Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-18AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	38.4	96.02	70-130

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-18B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	39.0	97.46	70-130

Data File: /chem/msdk.i/k28may10a.b/k052836.d

Date : 28-MAY-2010 23:11

Client ID:

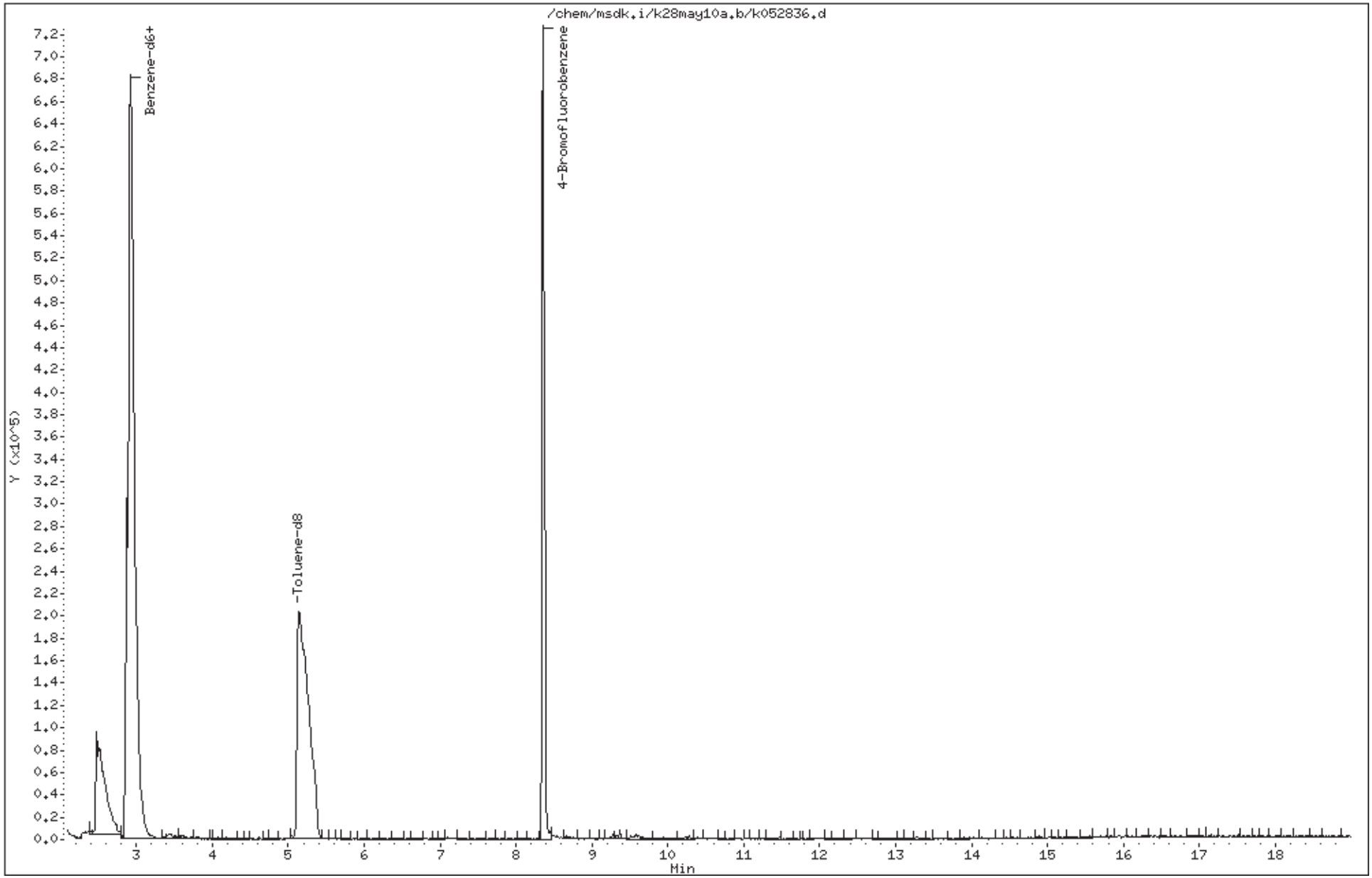
Instrument: msdk.i

Sample Info: ;1005453C-18A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052837.d

Page 1

Date : 28-MAY-2010 23:35

Client ID:

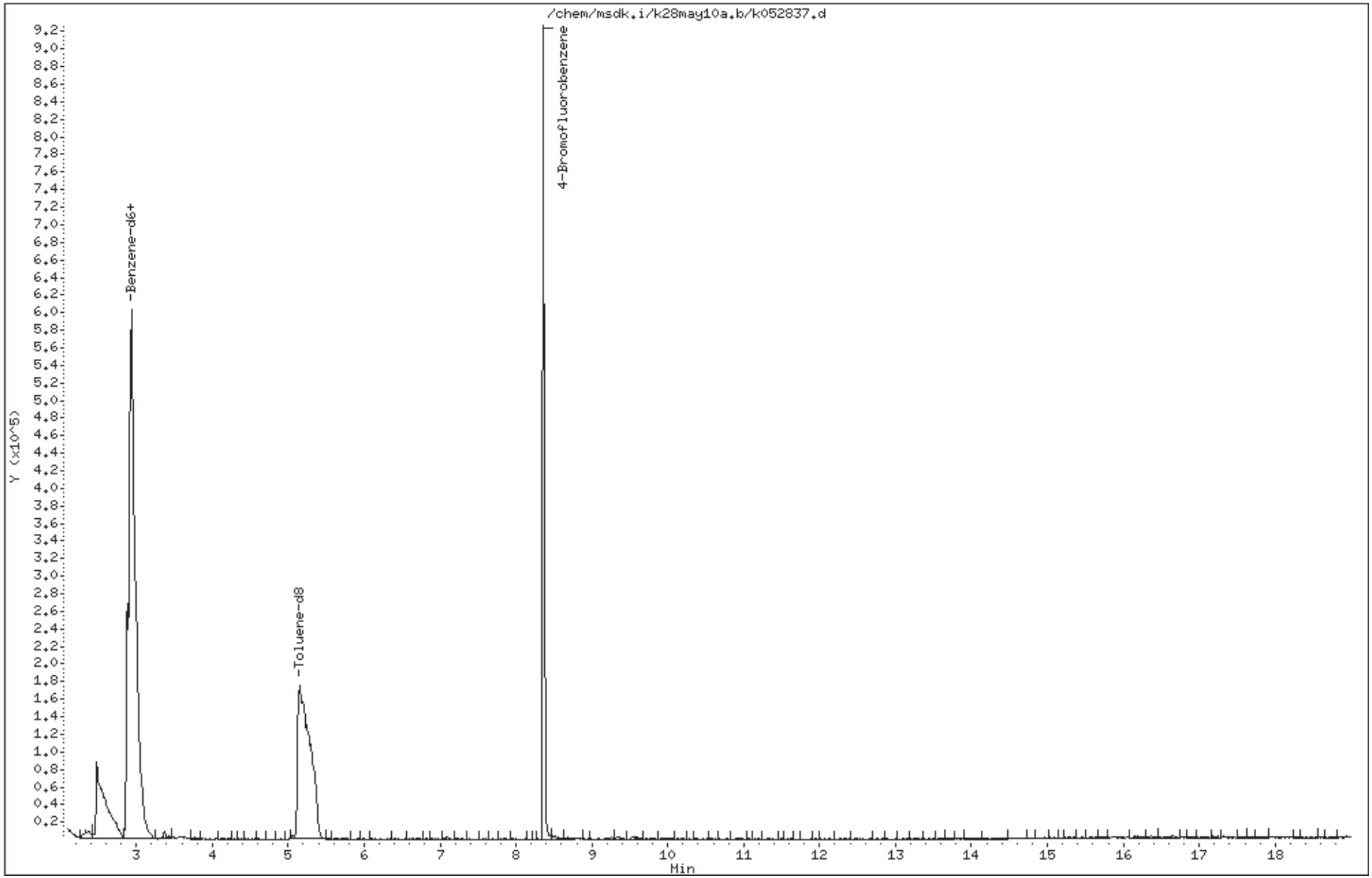
Instrument: msdk.i

Sample Info: ;1005453C-18B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: GV-7

Lab ID#: 1005453C-19AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-7

Lab ID#: 1005453C-19AB

SILOXANES - GC/MS

File Name:	**k052821**	**Date of Collection: 5/16/10 4:54:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 05:13 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	29	Not Detected	1400	Not Detected
Decamethylcylopentasiloxane (D5)	29	Not Detected	1400	Not Detected
Dodecamethylcyclohexasiloxane (D6)	58	Not Detected	2800	Not Detected
Hexamethyldisiloxane	29	Not Detected	1400	Not Detected
Octamethyltrisiloxane	29	Not Detected	1400	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 28.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	100	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052821.d
Lab Smp Id: 1005453C-19AB
Inj Date : 28-MAY-2010 17:13
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-19A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.30000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.871	2.872	(1.000)	700653	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.924	(1.018)	1159329	39.7625	39.8
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.147	5.148	(1.000)	646452	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.355	8.377	(1.000)	213195	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052822.d
Lab Smp Id: 1005453C-19B
Inj Date : 28-MAY-2010 17:37
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-19B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.50000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.880	2.872	(1.000)	713259	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.931	2.924	(1.018)	1199321	40.4072	40.4
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.146	5.148	(1.000)	662123	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.377	(1.000)	216116	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052821.d
Lab Smp Id: 1005453C-19AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	700653	-14.55
6 Toluene-d8	797846	398923	1595692	646452	-18.98
8 4-Bromofluorobenz	279522	139761	559044	213195	-23.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.04
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.02
8 4-Bromofluorobenz	8.38	7.88	8.88	8.36	-0.26

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052822.d
Lab Smp Id: 1005453C-19B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	713259	-13.02
6 Toluene-d8	797846	398923	1595692	662123	-17.01
8 4-Bromofluorobenz	279522	139761	559044	216116	-22.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.28
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.05
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-19AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	39.8	99.41	70-130

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-19B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.4	101.02	70-130

Data File: /chem/msdk.i/k28may10.b/k052821.d

Date : 28-MAY-2010 17:13

Client ID:

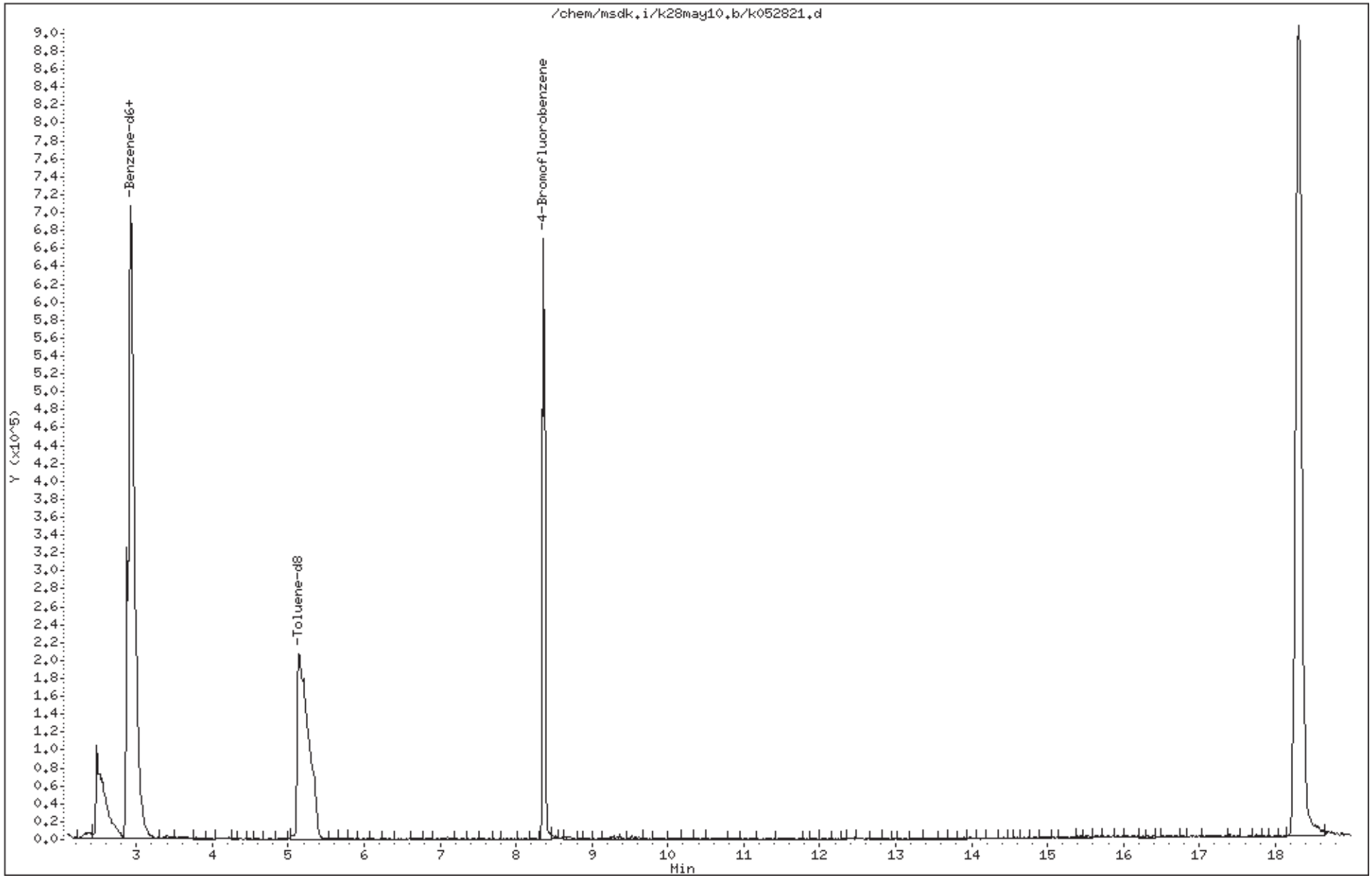
Instrument: msdk.i

Sample Info: ;1005453C-19A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052822.d

Page 1

Date : 28-MAY-2010 17:37

Client ID:

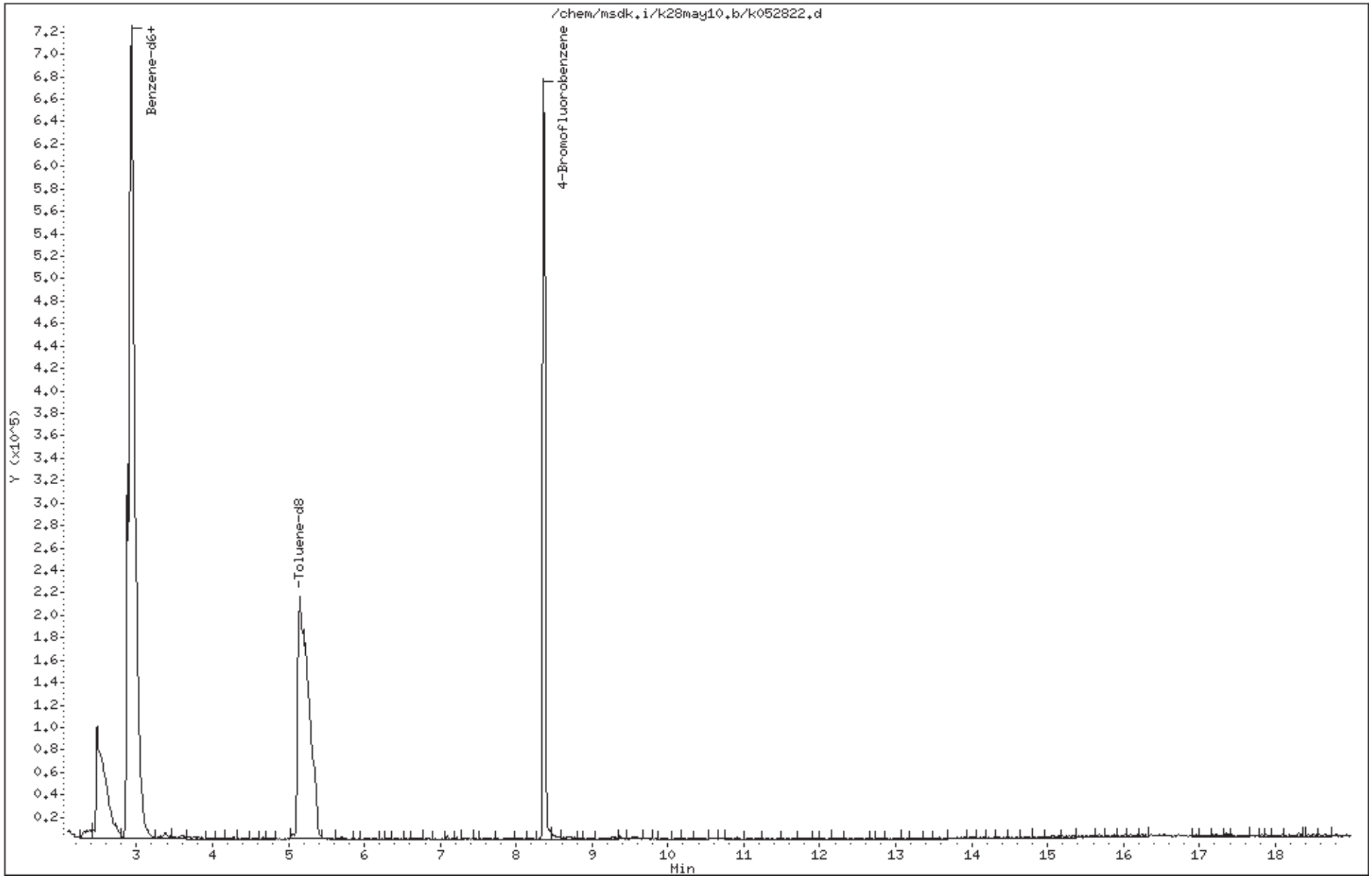
Instrument: msdk.i

Sample Info: ;1005453C-19B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: GV-11

Lab ID#: 1005453C-20AB

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexamethyldisiloxane	27	50	1300	2400

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-11

Lab ID#: 1005453C-20AB

SILOXANES - GC/MS

File Name:	**k052819**	**Date of Collection: 5/16/10 5:39:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 04:25 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	27	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	27	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	54	Not Detected	2600	Not Detected
Hexamethyldisiloxane	27	50	1300	2400
Octamethyltrisiloxane	27	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 27.0

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	102	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052819.d
Lab Smp Id: 1005453C-20AB
Inj Date : 28-MAY-2010 16:25
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-20A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 12.50000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.872	(1.000)	817216	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.924	(1.018)	1385143	40.7313	40.7
5	hexamethyldisiloxane(mm)	147	3.046	3.058	(1.061)	65192	2.07286	25.9
* 6	Toluene-d8	98	5.147	5.148	(1.000)	750663	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.365	8.377	(1.000)	247372	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052823.d
Lab Smp Id: 1005453C-20B
Inj Date : 28-MAY-2010 18:00
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-20B
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.50000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.859	2.872	(1.000)	851645	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.910	2.924	(1.018)	1426308	40.2462	40.2
5	hexamethyldisiloxane(mm)	147	3.055	3.058	(1.069)	55611	1.69674	24.6
* 6	Toluene-d8	98	5.135	5.148	(1.000)	793538	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.364	8.377	(1.000)	256883	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 02-Jun-2010 20:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052819.d
Lab Smp Id: 1005453C-20AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	817216	-0.34
6 Toluene-d8	797846	398923	1595692	750663	-5.91
8 4-Bromofluorobenz	279522	139761	559044	247372	-11.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.05
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.03
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052823.d
Lab Smp Id: 1005453C-20B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	851645	3.86
6 Toluene-d8	797846	398923	1595692	793538	-0.54
8 4-Bromofluorobenz	279522	139761	559044	256883	-8.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.86	-0.46
6 Toluene-d8	5.15	4.65	5.65	5.14	-0.25
8 4-Bromofluorobenz	8.38	7.88	8.88	8.36	-0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-20AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.7	101.83	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-20B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.2	100.62	70-130

Data File: /chem/msdk.i/k28may10.b/k052819.d

Page 1

Date : 28-MAY-2010 16:25

Client ID:

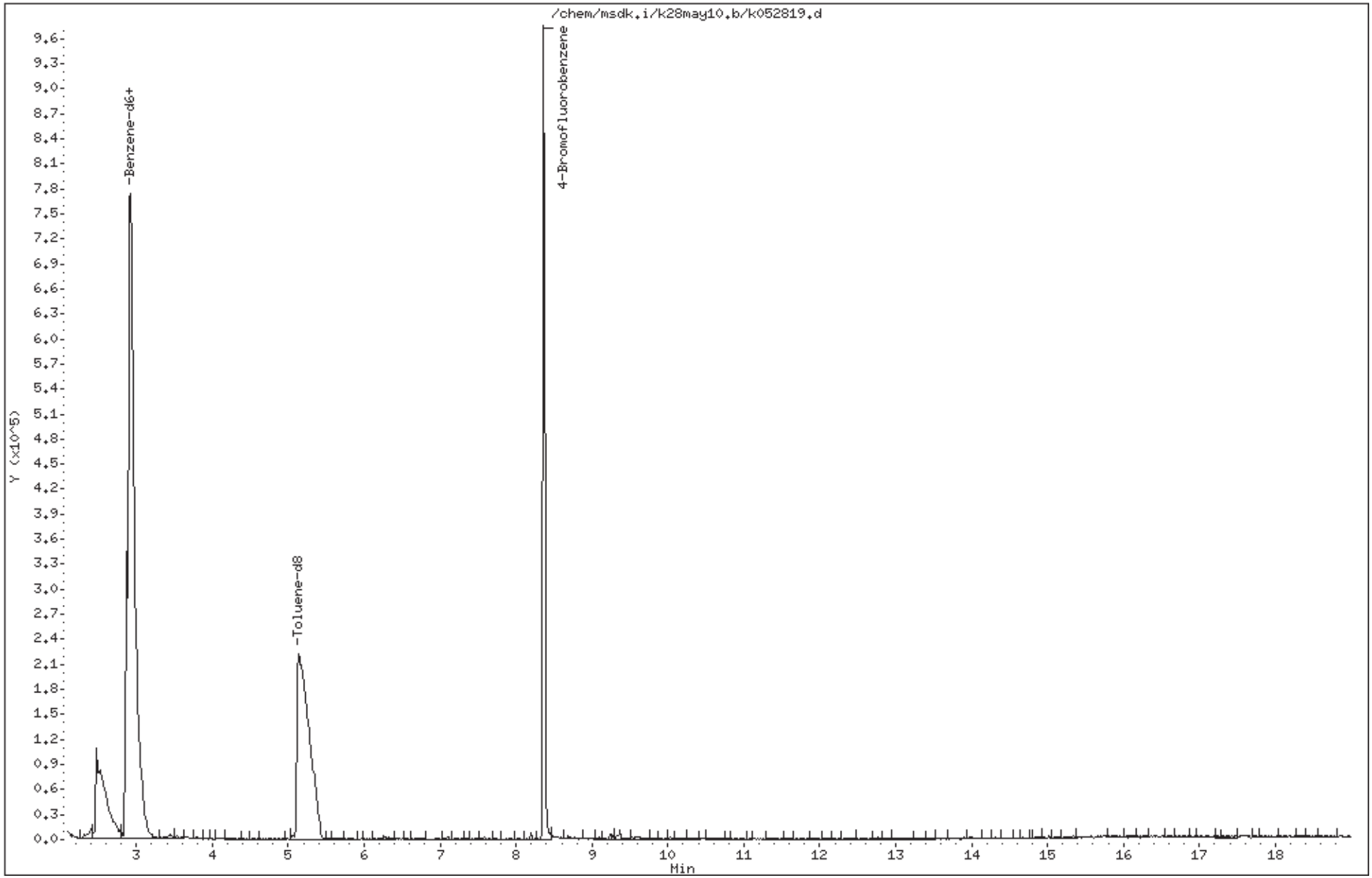
Instrument: msdk.i

Sample Info: ;1005453C-20A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052819.d

Date : 28-MAY-2010 16:25

Client ID:

Instrument: msdk.i

Sample Info: ;1005453C-20A;

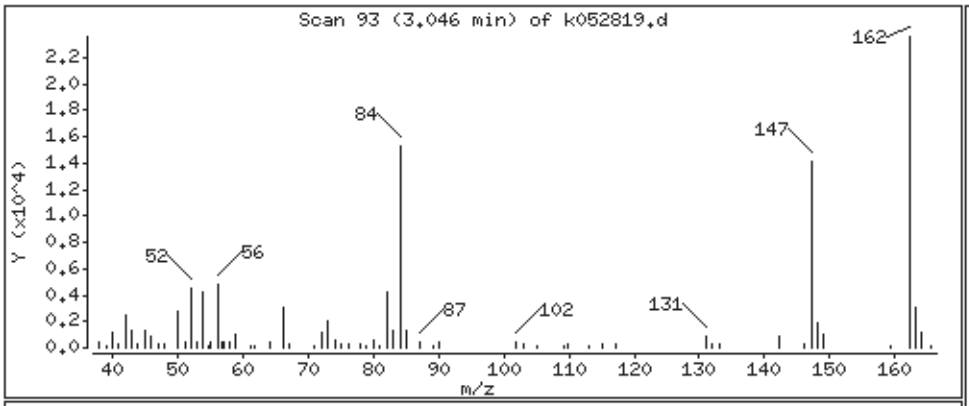
Operator: LZ

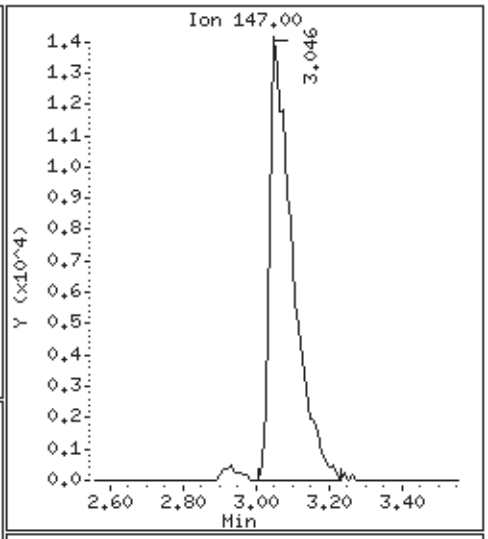
Column phase: DB-5.625

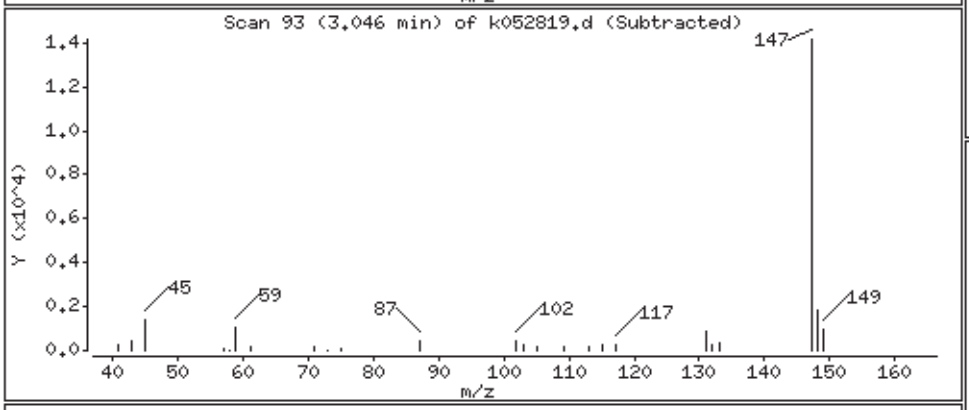
Column diameter: 0.25

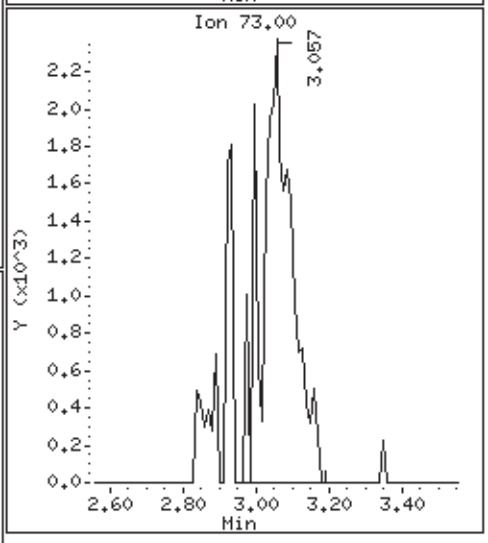
5 hexamethyldisiloxane(mm)

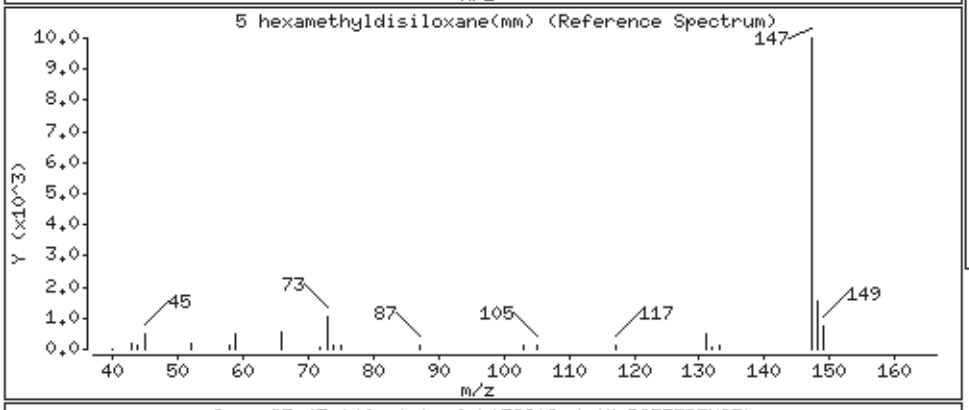
Concentration: 25.9 ug

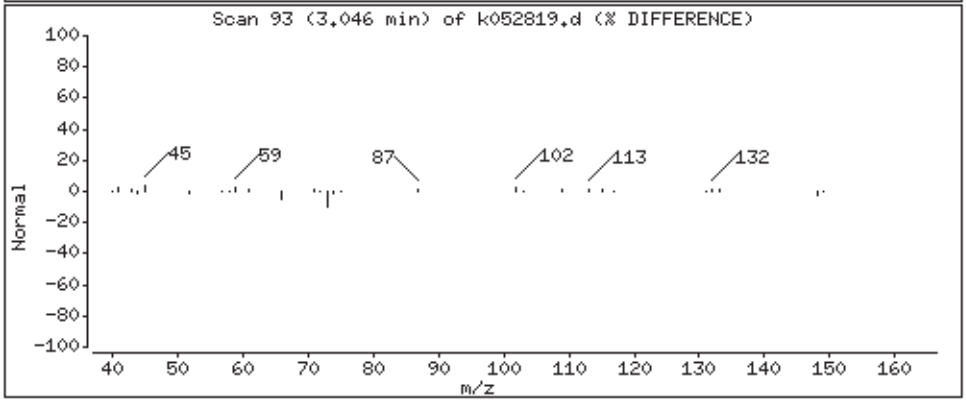












Data File: /chem/msdk.i/k28may10.b/k052823.d

Page 1

Date : 28-MAY-2010 18:00

Client ID:

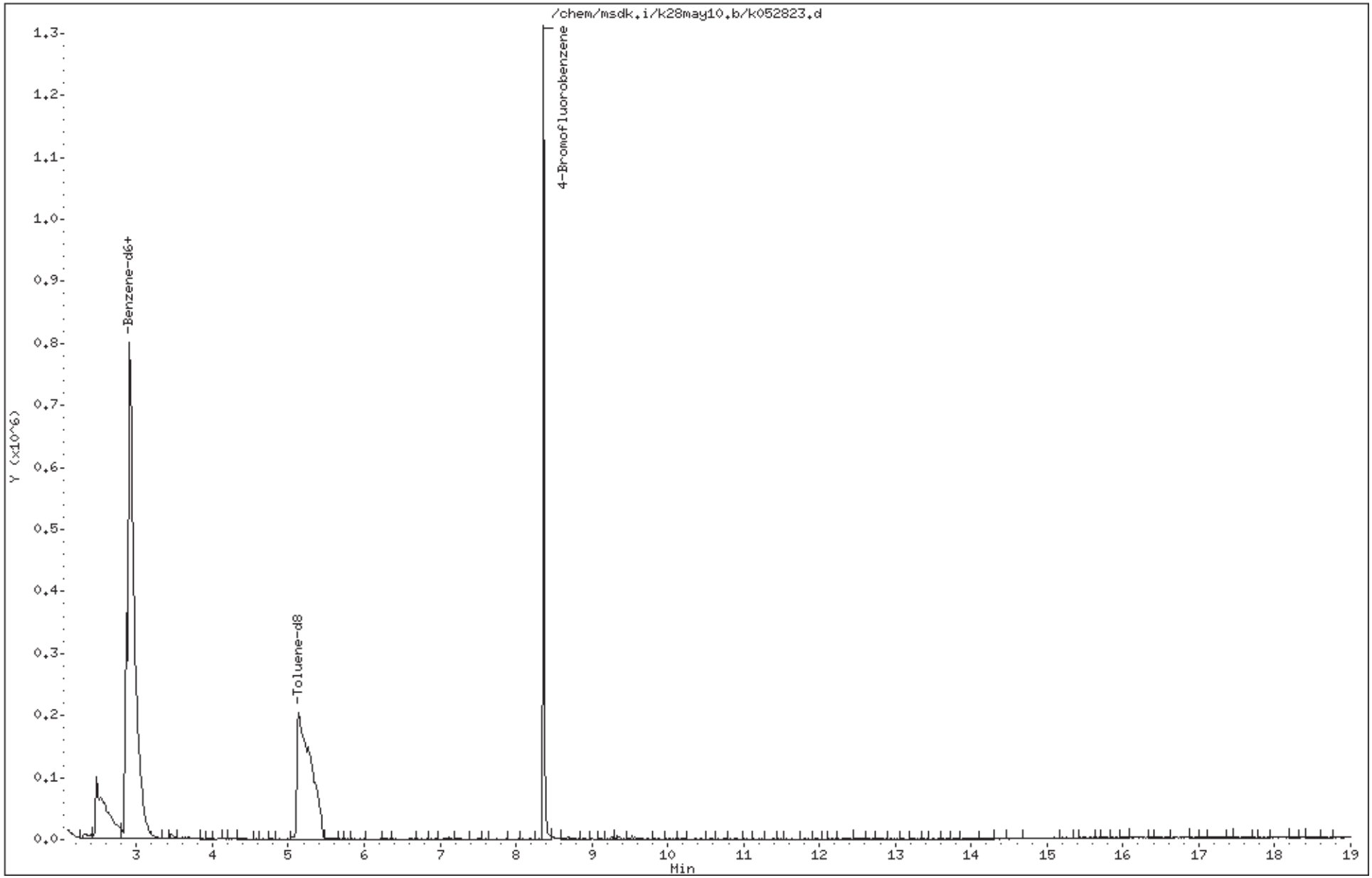
Instrument: msdk.i

Sample Info: ;1005453C-20B

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052823.d

Date : 28-MAY-2010 18:00

Client ID:

Instrument: msdk.i

Sample Info: ;1005453C-20B

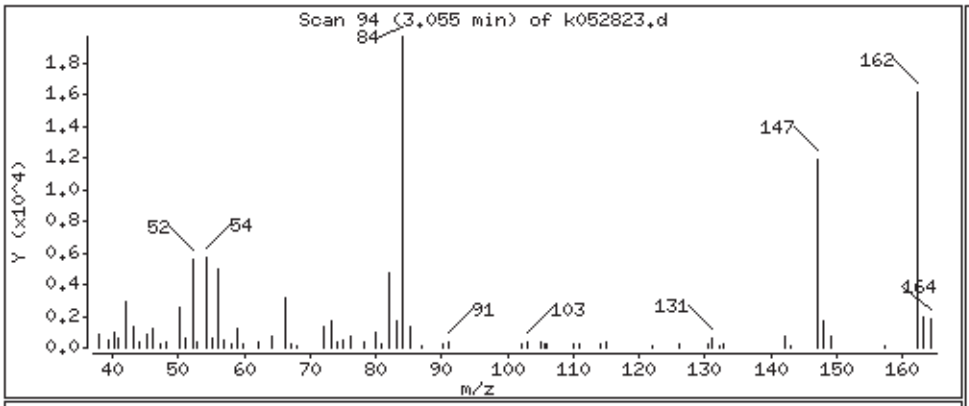
Operator: LZ

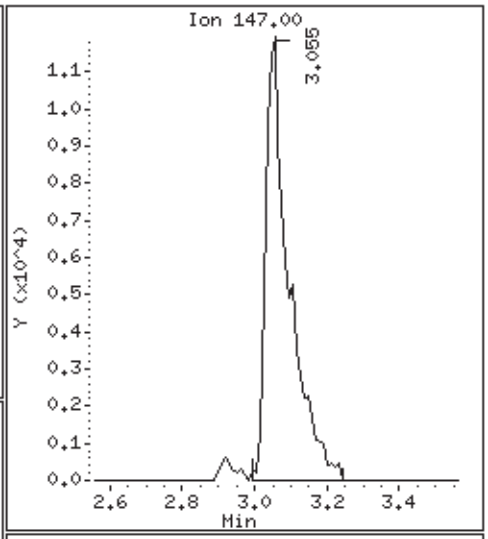
Column phase: DB-5.625

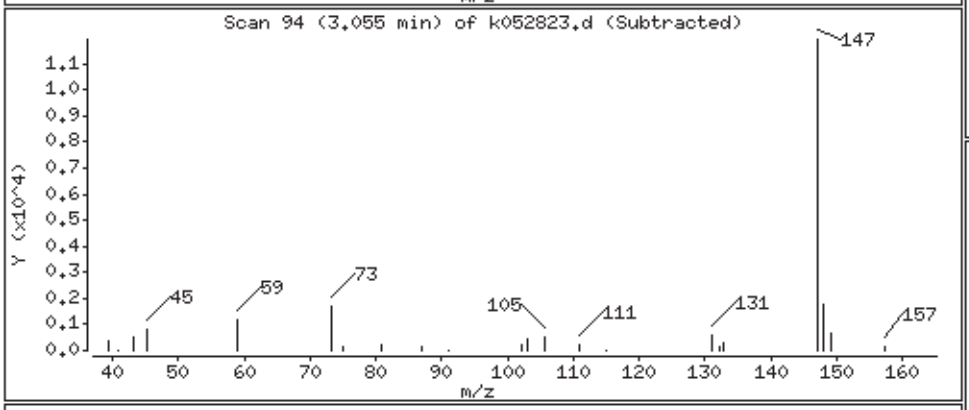
Column diameter: 0.25

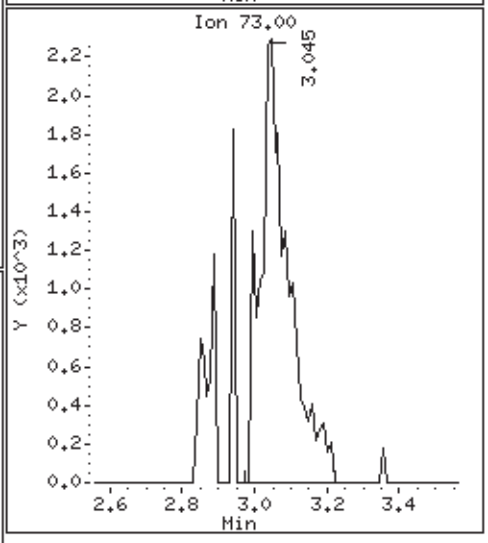
5 hexamethyldisiloxane(mm)

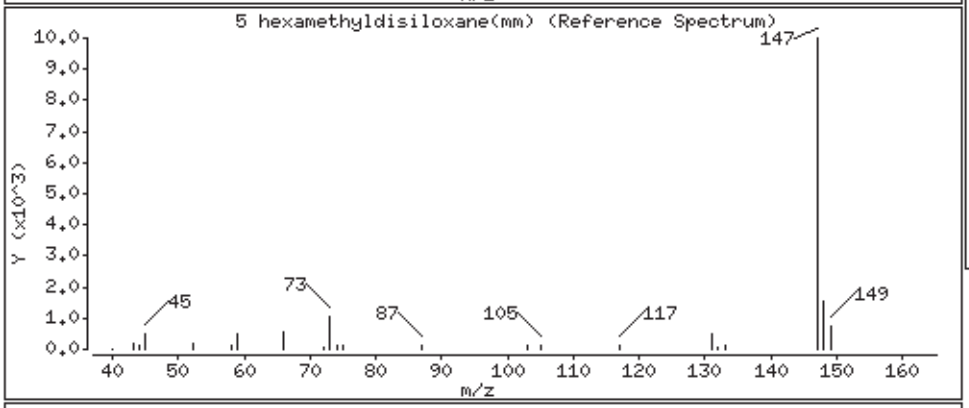
Concentration: 24.6 ug

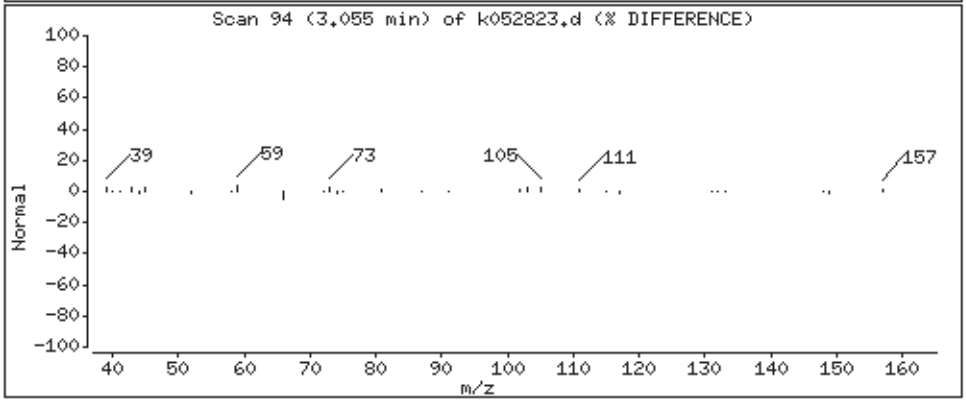












Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: AOS-1

Lab ID#: 1005453C-21AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: AOS-1

Lab ID#: 1005453C-21AB

SILOXANES - GC/MS

File Name:	**k052820**	**Date of Collection: 5/17/10 9:48:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 04:49 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	28	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	28	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	56	Not Detected	2700	Not Detected
Hexamethyldisiloxane	28	Not Detected	1300	Not Detected
Octamethyltrisiloxane	28	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 27.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	101	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052820.d
Lab Smp Id: 1005453C-21AB
Inj Date : 28-MAY-2010 16:49
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-21A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 12.40000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.882	2.872	(1.000)	743792	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.934	2.924	(1.018)	1250280	40.3948	40.4
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.148	5.148	(1.000)	672757	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.356	8.377	(1.000)	219313	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052824.d
Lab Smp Id: 1005453C-21B
Inj Date : 28-MAY-2010 18:24
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-21B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 15.40000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.869	2.872	(1.000)	779759	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.921	2.924	(1.018)	1327289	40.9049	40.9
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.146	5.148	(1.000)	725391	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.374	8.377	(1.000)	233799	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052820.d
Lab Smp Id: 1005453C-21AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	743792	-9.29
6 Toluene-d8	797846	398923	1595692	672757	-15.68
8 4-Bromofluorobenz	279522	139761	559044	219313	-21.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.36
6 Toluene-d8	5.15	4.65	5.65	5.15	0.00
8 4-Bromofluorobenz	8.38	7.88	8.88	8.36	-0.25

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052824.d
Lab Smp Id: 1005453C-21B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	779759	-4.91
6 Toluene-d8	797846	398923	1595692	725391	-9.08
8 4-Bromofluorobenz	279522	139761	559044	233799	-16.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.10
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.05
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-21AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.4	100.99	70-130

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-21B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.9	102.26	70-130

Data File: /chem/msdk.i/k28may10.b/k052820.d

Page 1

Date : 28-MAY-2010 16:49

Client ID:

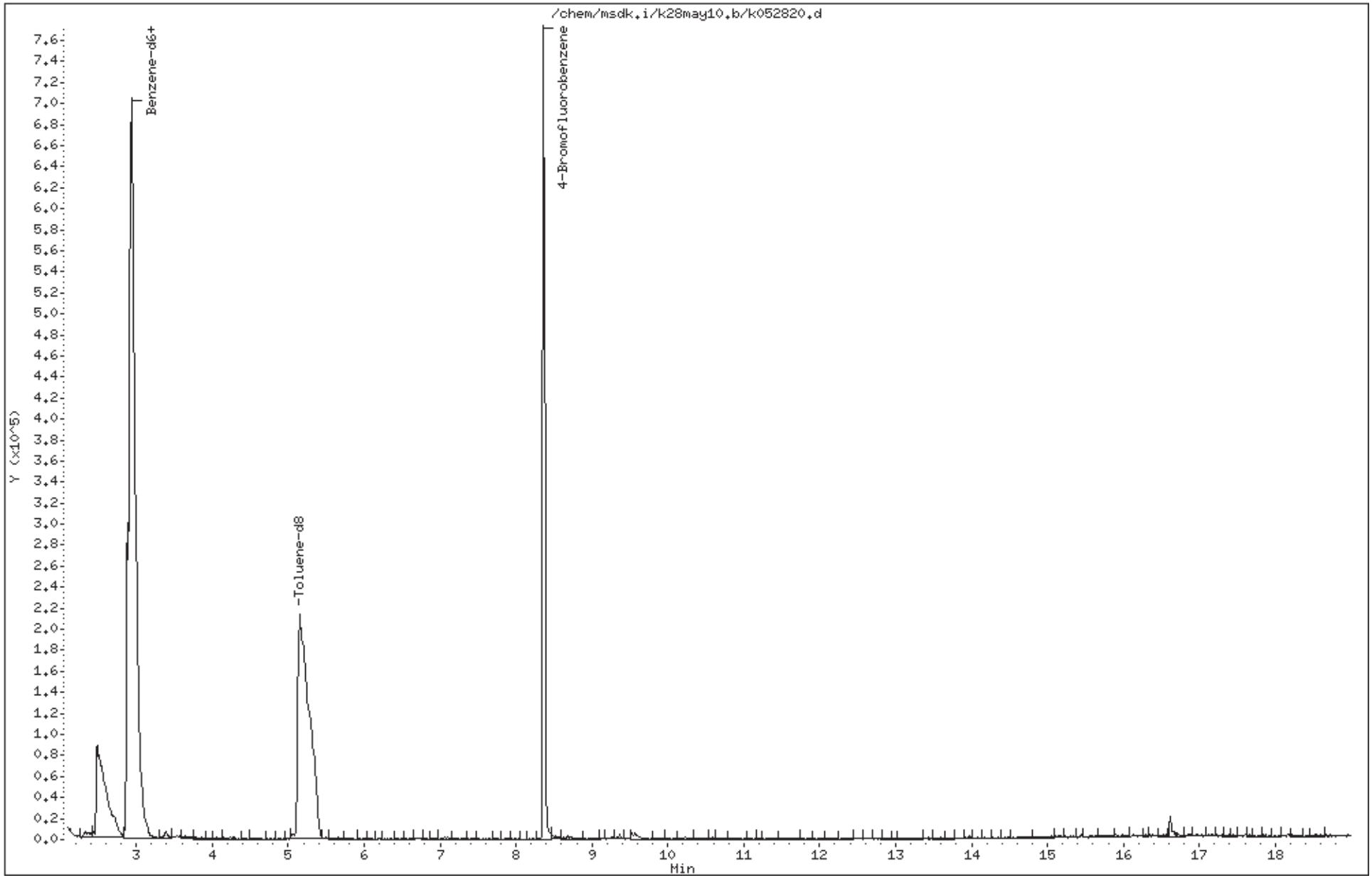
Instrument: msdk.i

Sample Info: ;1005453C-21A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052824.d

Page 1

Date : 28-MAY-2010 18:24

Client ID:

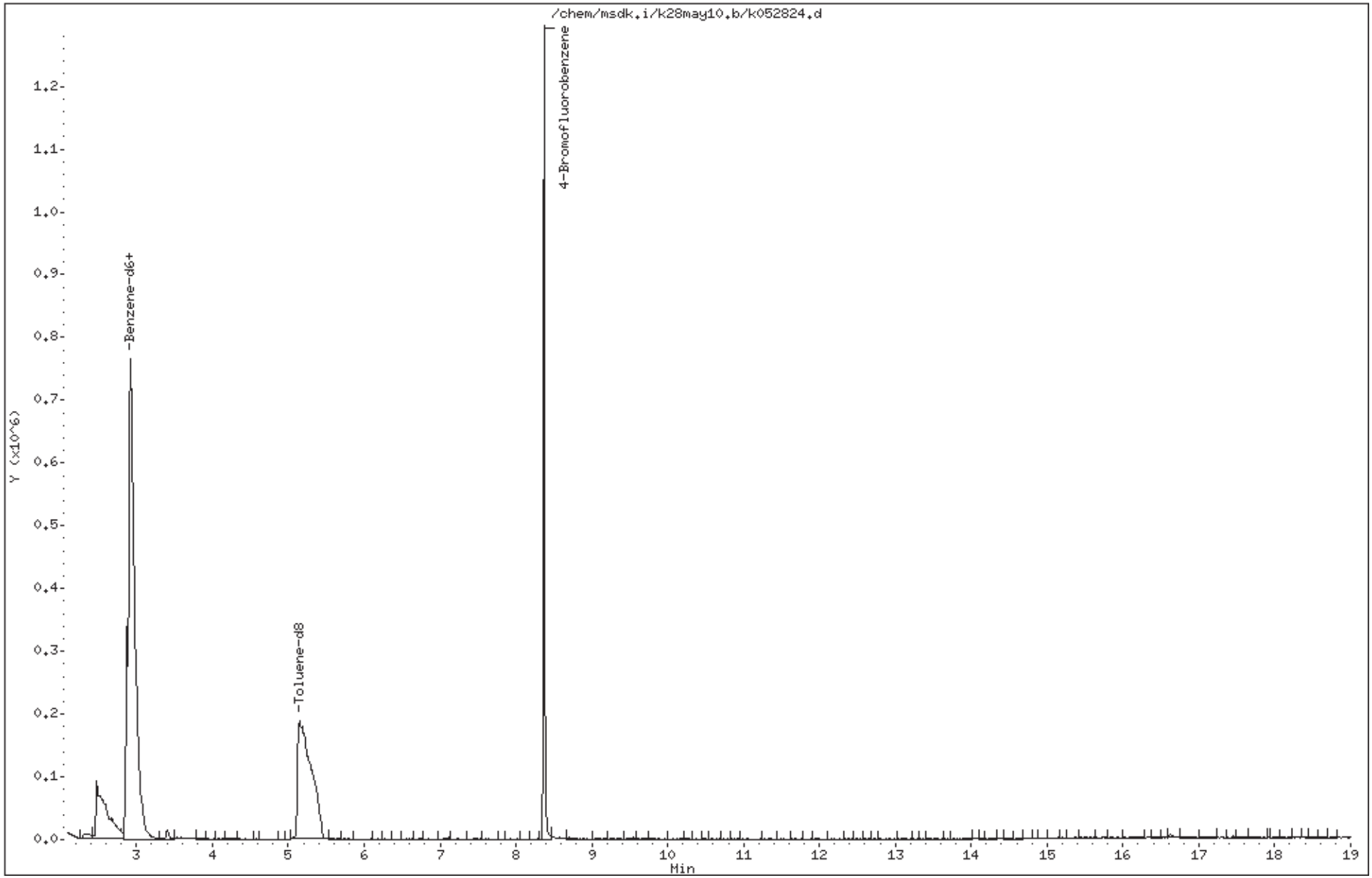
Instrument: msdk.i

Sample Info: ;1005453C-21B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: GV-9

Lab ID#: 1005453C-22AB

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexamethyldisiloxane	26	47	1200	2200

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-9

Lab ID#: 1005453C-22AB

SILOXANES - GC/MS

File Name:	**k052818**	**Date of Collection: 5/15/10 11:10:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 04:01 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	26	Not Detected	1200	Not Detected
Decamethylcylopentasiloxane (D5)	26	Not Detected	1200	Not Detected
Dodecamethylcyclohexasiloxane (D6)	52	Not Detected	2500	Not Detected
Hexamethyldisiloxane	26	47	1200	2200
Octamethyltrisiloxane	26	Not Detected	1200	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 25.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	102	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052818.d
Lab Smp Id: 1005453C-22AB
Inj Date : 28-MAY-2010 16:01
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-22A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 12.10000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.872	(1.000)	772968	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.924	(1.018)	1319402	41.0191	41.0
5	hexamethyldisiloxane(mm)	147	3.056	3.058	(1.065)	60055	2.01883	24.4
* 6	Toluene-d8	98	5.147	5.148	(1.000)	716232	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.365	8.377	(1.000)	237719	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052825.d
Lab Smp Id: 1005453C-22B
Inj Date : 28-MAY-2010 18:48
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-22B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 13.70000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.872	(1.000)	759460	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.921	2.924	(1.018)	1290216	40.8251	40.8
5	hexamethyldisiloxane(mm)	147	3.056	3.058	(1.065)	47580	1.62792	22.3
* 6	Toluene-d8	98	5.146	5.148	(1.000)	696313	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.377	(1.000)	231096	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052818.d
Lab Smp Id: 1005453C-22AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	772968	-5.73
6 Toluene-d8	797846	398923	1595692	716232	-10.23
8 4-Bromofluorobenz	279522	139761	559044	237719	-14.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.06
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.03
8 4-Bromofluorobenz	8.38	7.88	8.88	8.36	-0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052825.d
Lab Smp Id: 1005453C-22B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	759460	-7.38
6 Toluene-d8	797846	398923	1595692	696313	-12.73
8 4-Bromofluorobenz	279522	139761	559044	231096	-17.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.07
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.04
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-22AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.0	102.55	70-130

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-22B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.8	102.06	70-130

Data File: /chem/msdk.i/k28may10.b/k052818.d

Page 1

Date : 28-MAY-2010 16:01

Client ID:

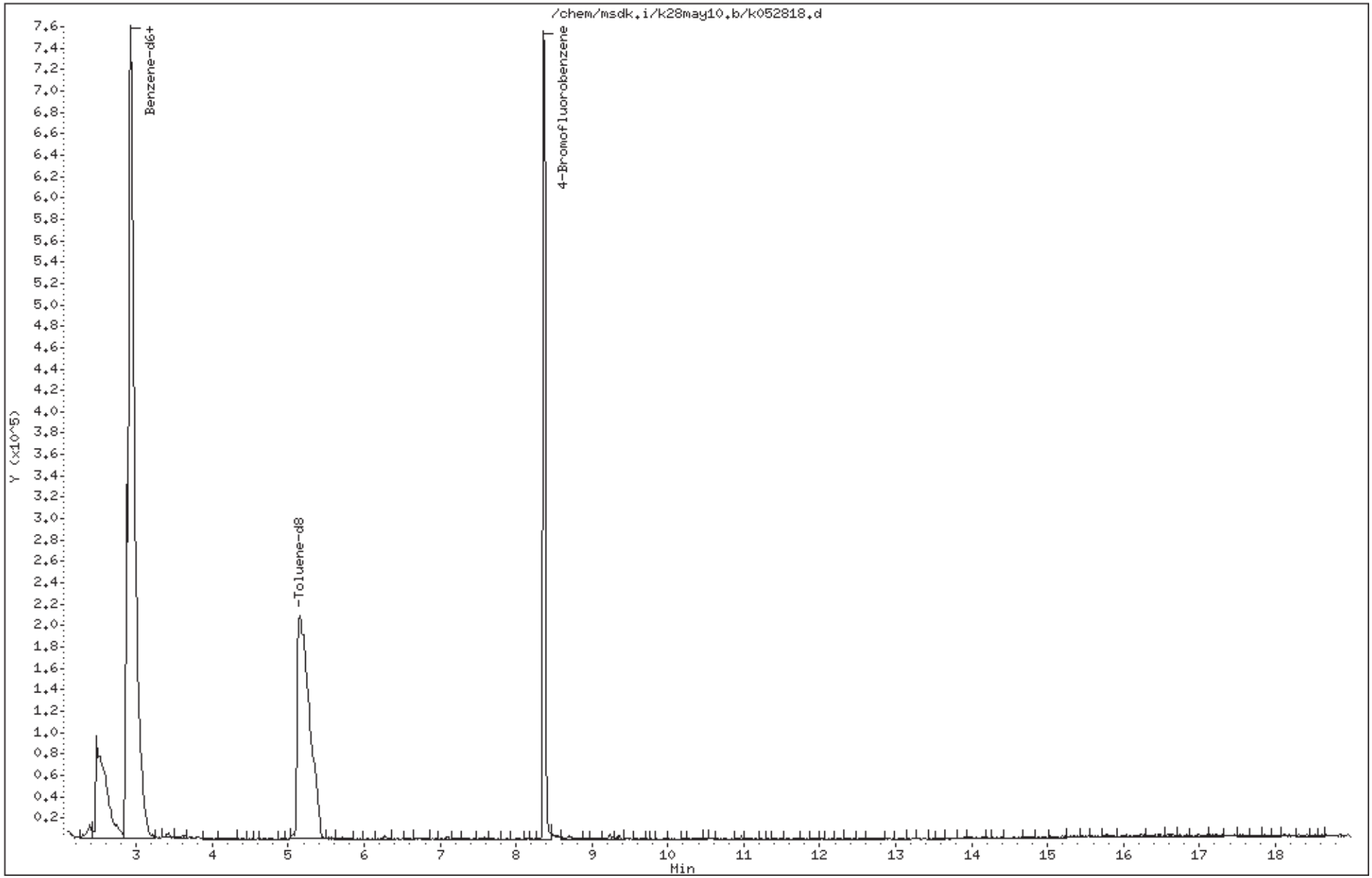
Instrument: msdk.i

Sample Info: ;1005453C-22A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052818.d

Date : 28-MAY-2010 16:01

Client ID:

Instrument: msdk.i

Sample Info: ;1005453C-22A;

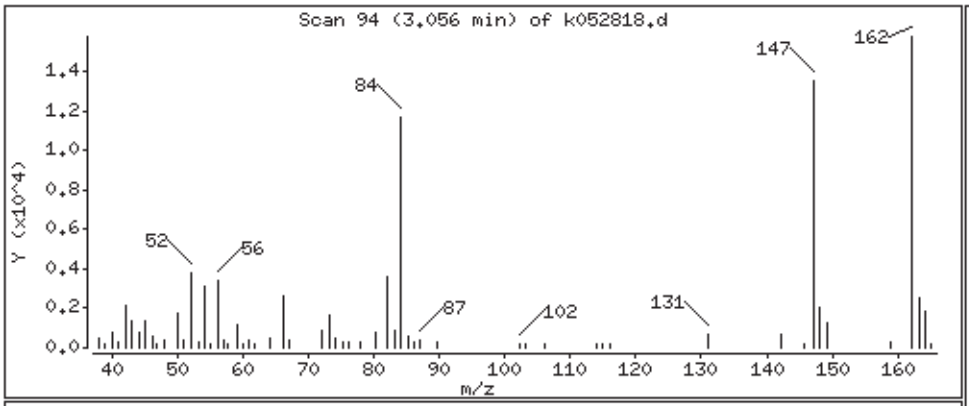
Operator: LZ

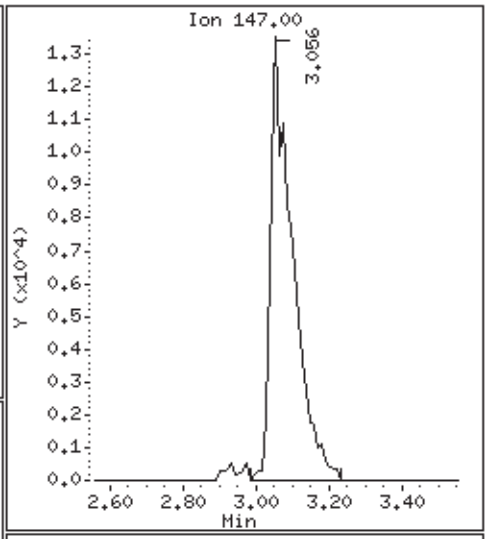
Column phase: DB-5.625

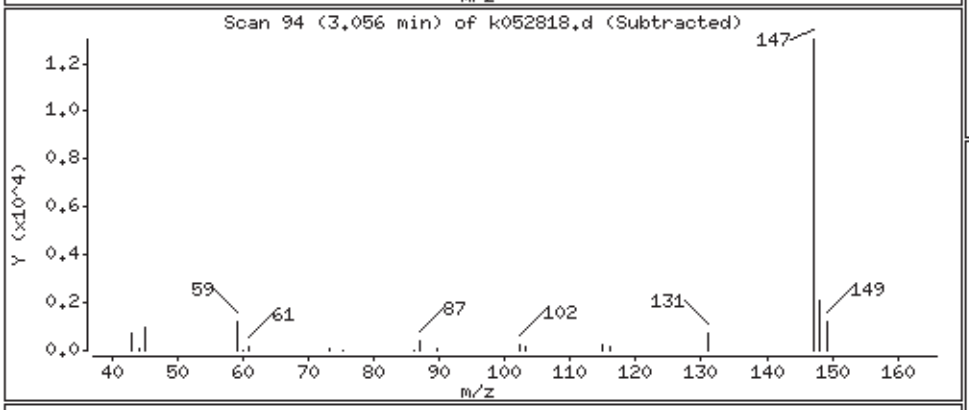
Column diameter: 0.25

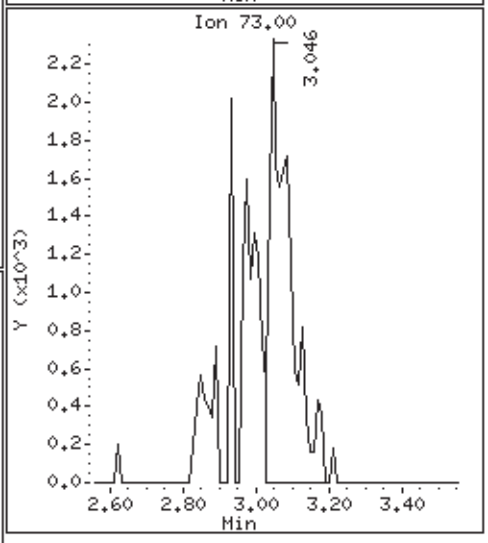
5 hexamethyldisiloxane(mm)

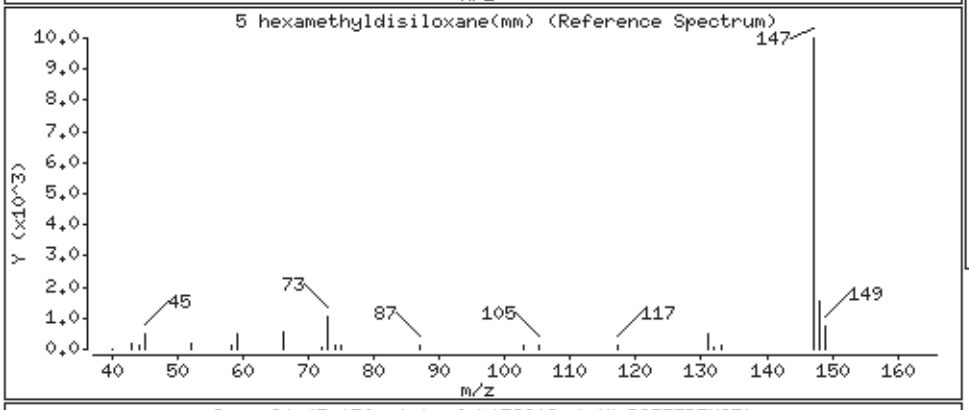
Concentration: 24.4 ug

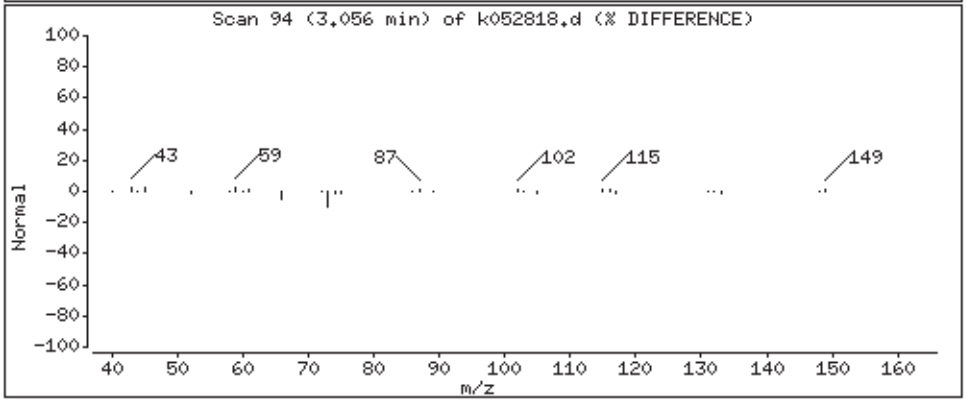












Data File: /chem/msdk.i/k28may10.b/k052825.d

Page 1

Date : 28-MAY-2010 18:48

Client ID:

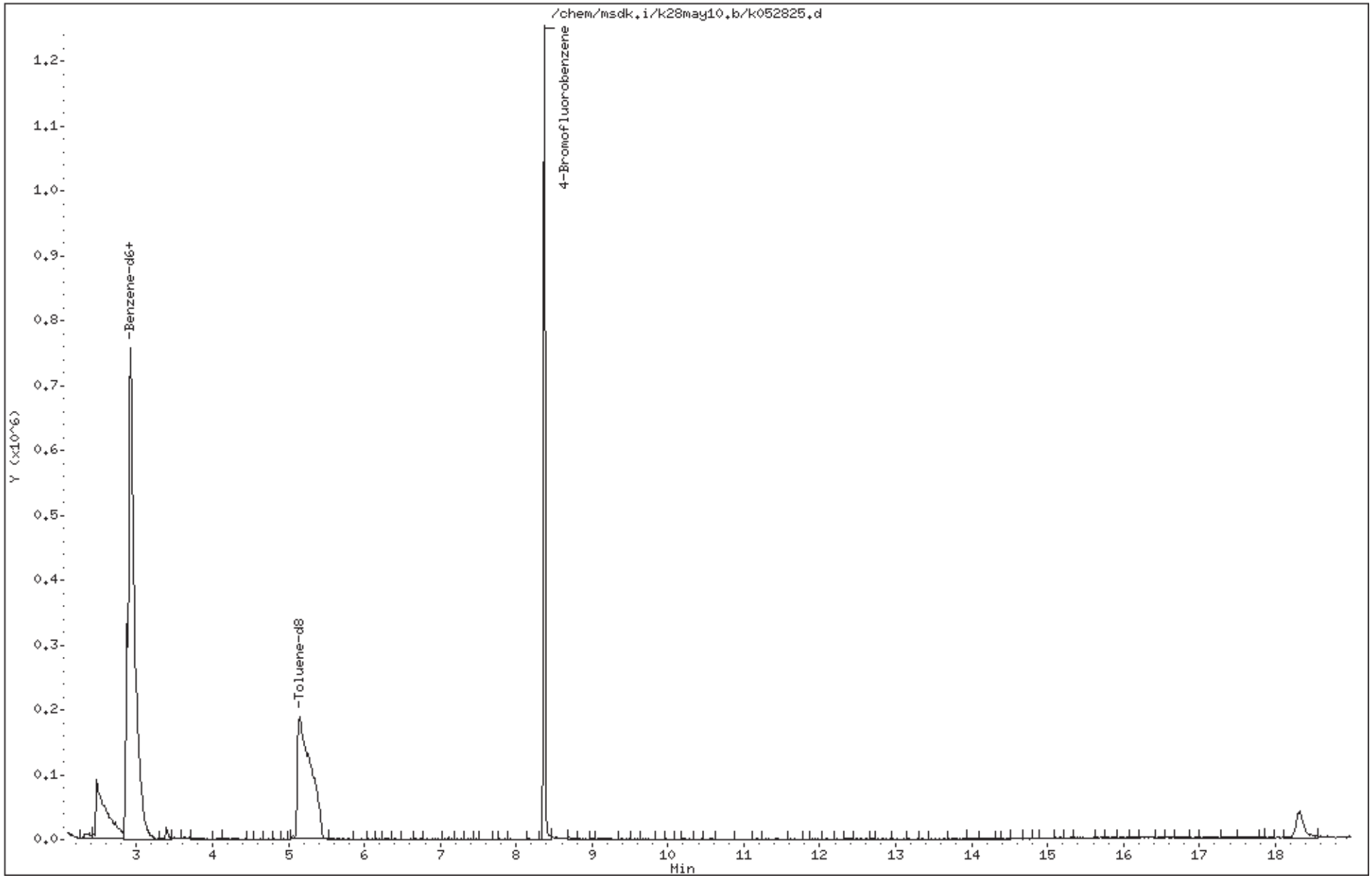
Instrument: msdk.i

Sample Info: ;1005453C-22B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052825.d

Date : 28-MAY-2010 18:48

Client ID:

Instrument: msdk.i

Sample Info: ;1005453C-22B;

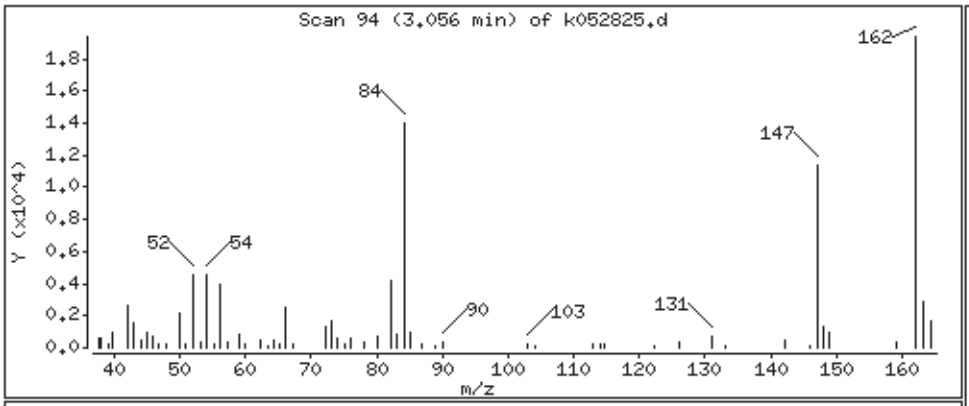
Operator: LZ

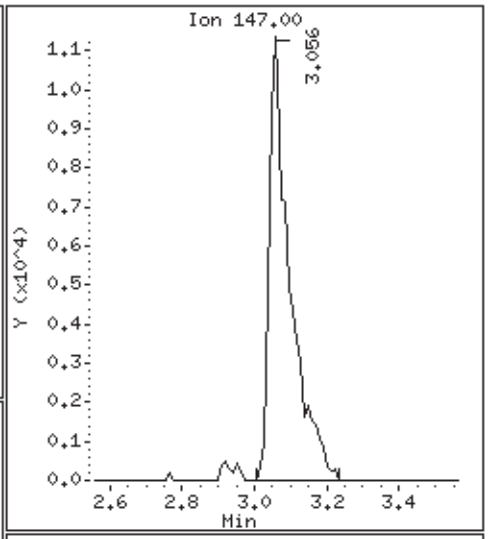
Column phase: DB-5.625

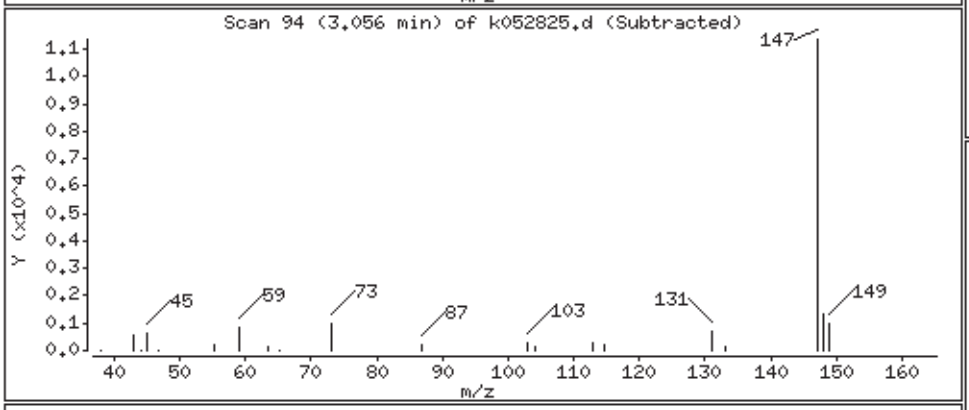
Column diameter: 0.25

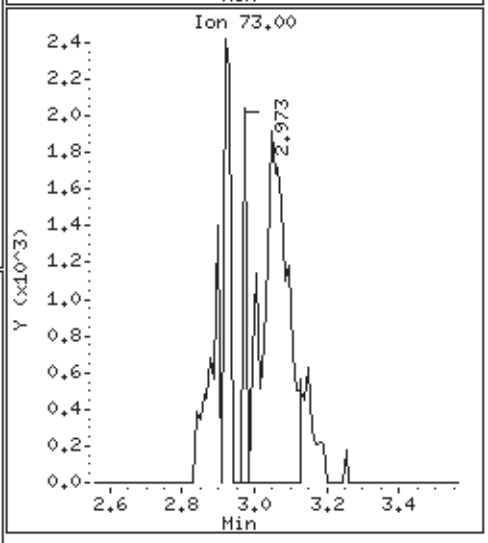
5 hexamethyldisiloxane(mm)

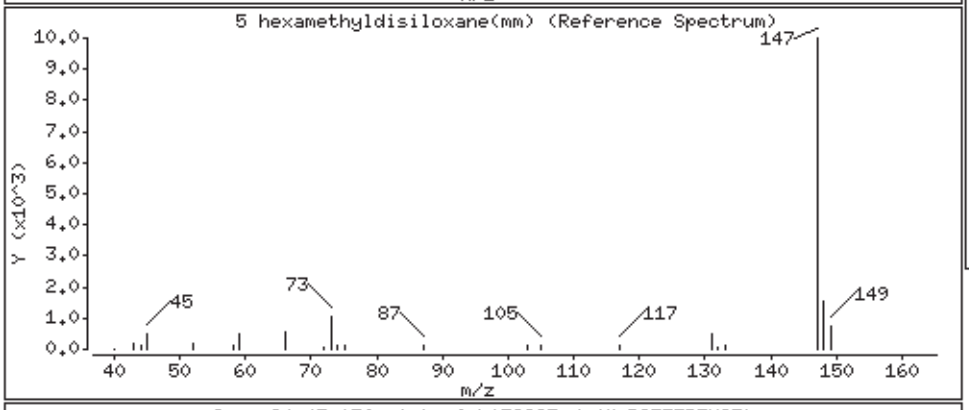
Concentration: 22.3 ug

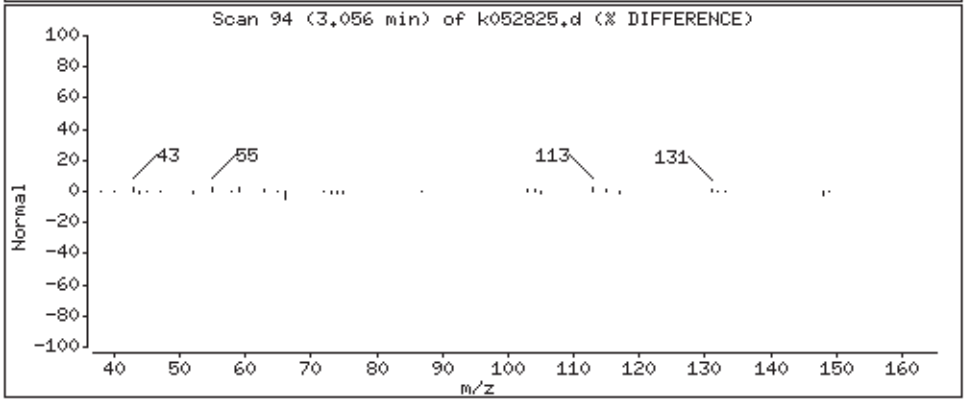












Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: GV-10

Lab ID#: 1005453C-23AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-10

Lab ID#: 1005453C-23AB

SILOXANES - GC/MS

File Name:	**k052817**	**Date of Collection: 5/15/10 10:57:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 03:37 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	22	Not Detected	1100	Not Detected
Decamethylcylopentasiloxane (D5)	22	Not Detected	1100	Not Detected
Dodecamethylcyclohexasiloxane (D6)	45	Not Detected	2200	Not Detected
Hexamethyldisiloxane	22	Not Detected	1100	Not Detected
Octamethyltrisiloxane	22	Not Detected	1100	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 22.5

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	104	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052817.d
Lab Smp Id: 1005453C-23AB
Inj Date : 28-MAY-2010 15:37
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-23A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 7.90000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.873	2.872	(1.000)	723426	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.925	2.924	(1.018)	1247994	41.4561	41.4
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.149	5.148	(1.000)	668785	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.368	8.377	(1.000)	215256	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052826.d
Lab Smp Id: 1005453C-23B
Inj Date : 28-MAY-2010 19:12
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-23B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.60000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.880	2.872	(1.000)	733180	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.931	2.924	(1.018)	1250346	40.9817	41.0
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.146	5.148	(1.000)	667490	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.374	8.377	(1.000)	225408	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 02-Jun-2010 20:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052817.d
Lab Smp Id: 1005453C-23AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	723426	-11.78
6 Toluene-d8	797846	398923	1595692	668785	-16.18
8 4-Bromofluorobenz	279522	139761	559044	215256	-22.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.04
6 Toluene-d8	5.15	4.65	5.65	5.15	0.02
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052826.d
Lab Smp Id: 1005453C-23B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	733180	-10.59
6 Toluene-d8	797846	398923	1595692	667490	-16.34
8 4-Bromofluorobenz	279522	139761	559044	225408	-19.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.27
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.05
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-23AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.4	103.64	70-130

Report Date: 02-Jun-2010 20:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-23B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.0	102.45	70-130

Data File: /chem/msdk.i/k28may10.b/k052817.d

Date : 28-MAY-2010 15:37

Client ID:

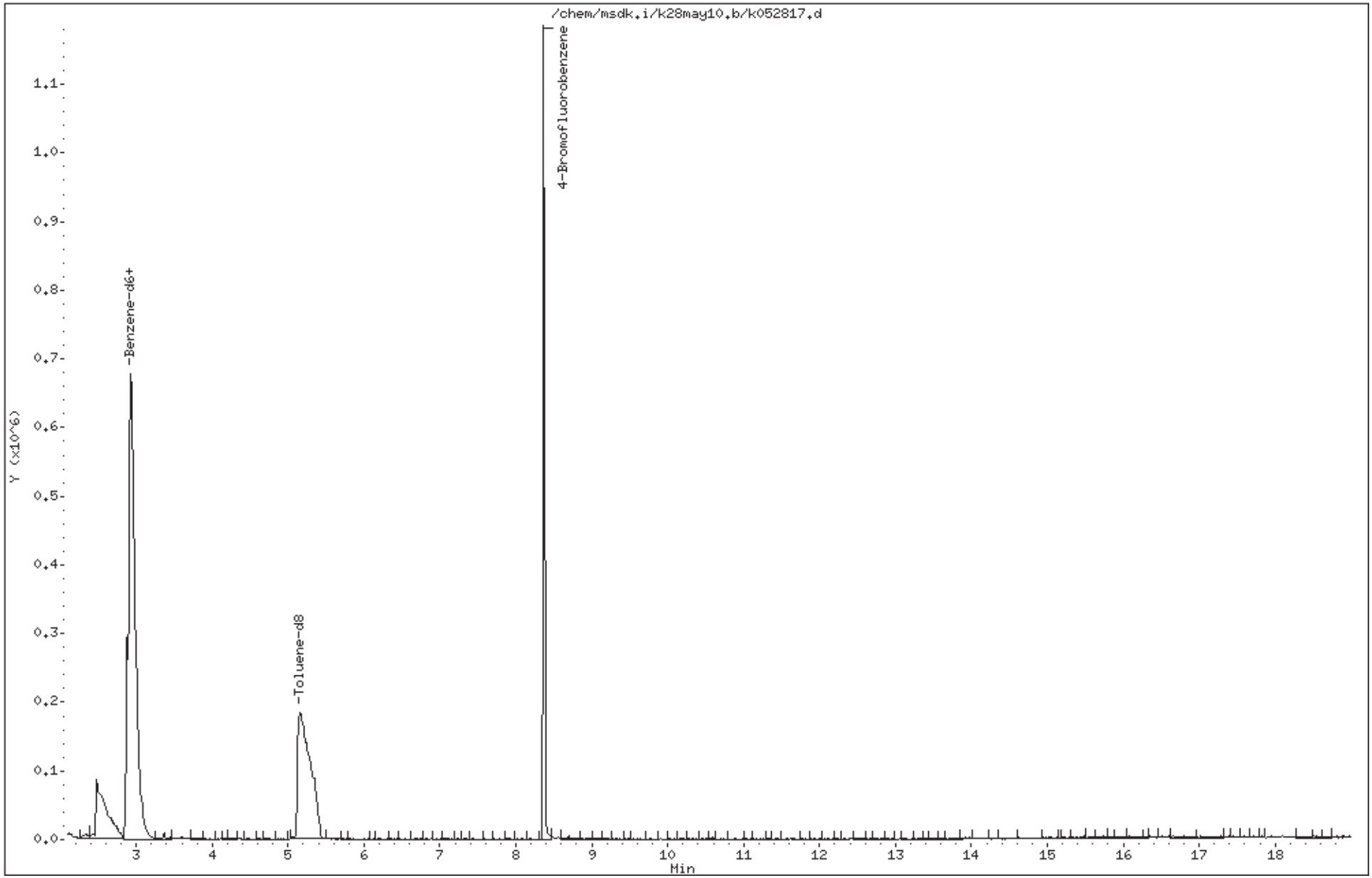
Instrument: msdk.i

Sample Info: ;1005453C-23A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052826.d

Page 1

Date : 28-MAY-2010 19:12

Client ID:

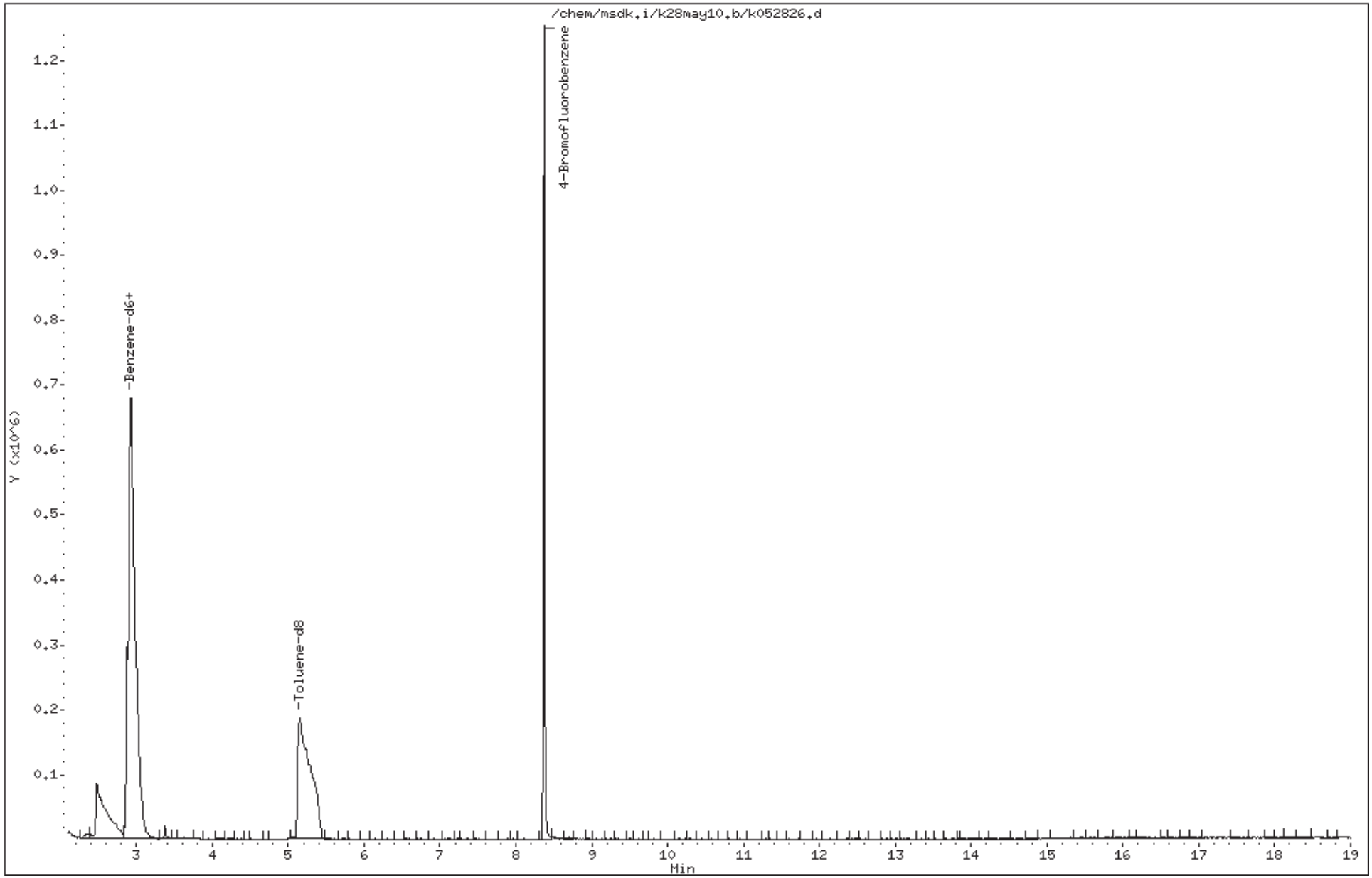
Instrument: msdk.i

Sample Info: ;1005453C-23B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: GV-12

Lab ID#: 1005453C-24AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-12

Lab ID#: 1005453C-24AB

SILOXANES - GC/MS

File Name:	**k052838**	**Date of Collection: 5/15/10 11:41:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 11:59 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	29	Not Detected	1400	Not Detected
Decamethylcylopentasiloxane (D5)	29	Not Detected	1400	Not Detected
Dodecamethylcyclohexasiloxane (D6)	59	Not Detected	2800	Not Detected
Hexamethyldisiloxane	29	Not Detected	1400	Not Detected
Octamethyltrisiloxane	29	Not Detected	1400	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 29.4

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	98	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052838.d
Lab Smp Id: 1005453C-24AB
Inj Date : 28-MAY-2010 23:59
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-24A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.30000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.881	(1.000)	730085	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.933	(1.018)	1194296	39.3105	39.3
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.147	5.158	(1.000)	666263	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.376	(1.000)	224213	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052839.d
Lab Smp Id: 1005453C-24B
Inj Date : 29-MAY-2010 00:23
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-24B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 15.10000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.881	2.881	(1.000)	671144	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.933	2.933	(1.018)	1055942	37.8089	37.8
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.147	5.158	(1.000)	597287	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.365	8.376	(1.000)	199678	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052838.d
Lab Smp Id: 1005453C-24AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	730085	-4.88
6 Toluene-d8	708584	354292	1417168	666263	-5.97
8 4-Bromofluorobenz	250041	125020	500082	224213	-10.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.87	-0.40
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.22
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052839.d
Lab Smp Id: 1005453C-24B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	671144	-12.56
6 Toluene-d8	708584	354292	1417168	597287	-15.71
8 4-Bromofluorobenz	250041	125020	500082	199678	-20.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.88	-0.02
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.21
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-24AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	39.3	98.28	70-130

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-24B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	37.8	94.52	70-130

Data File: /chem/msdk.i/k28may10a.b/k052838.d

Date : 28-MAY-2010 23:59

Client ID:

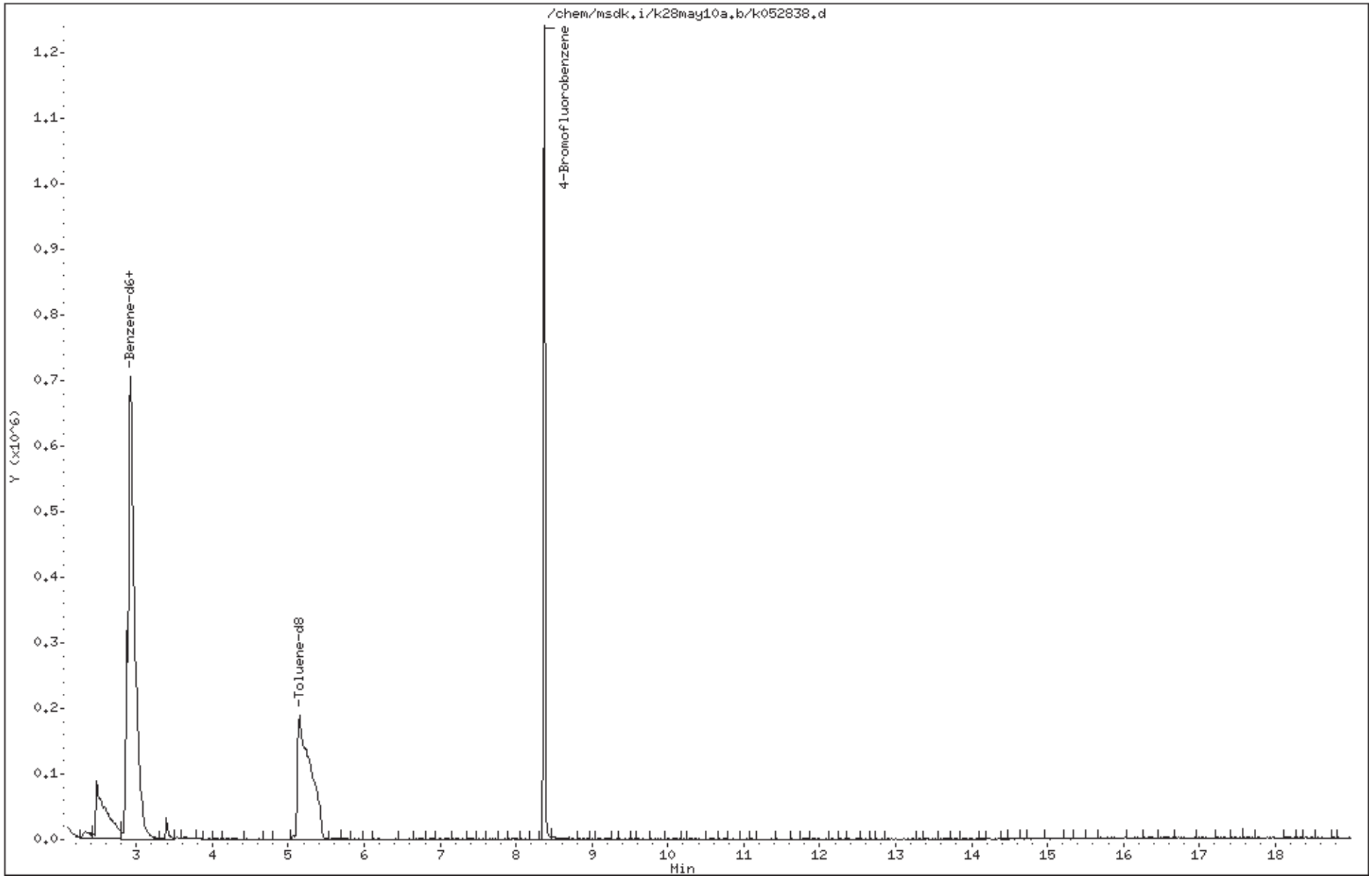
Instrument: msdk.i

Sample Info: ;1005453C-24A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052839.d

Page 1

Date : 29-MAY-2010 00:23

Client ID:

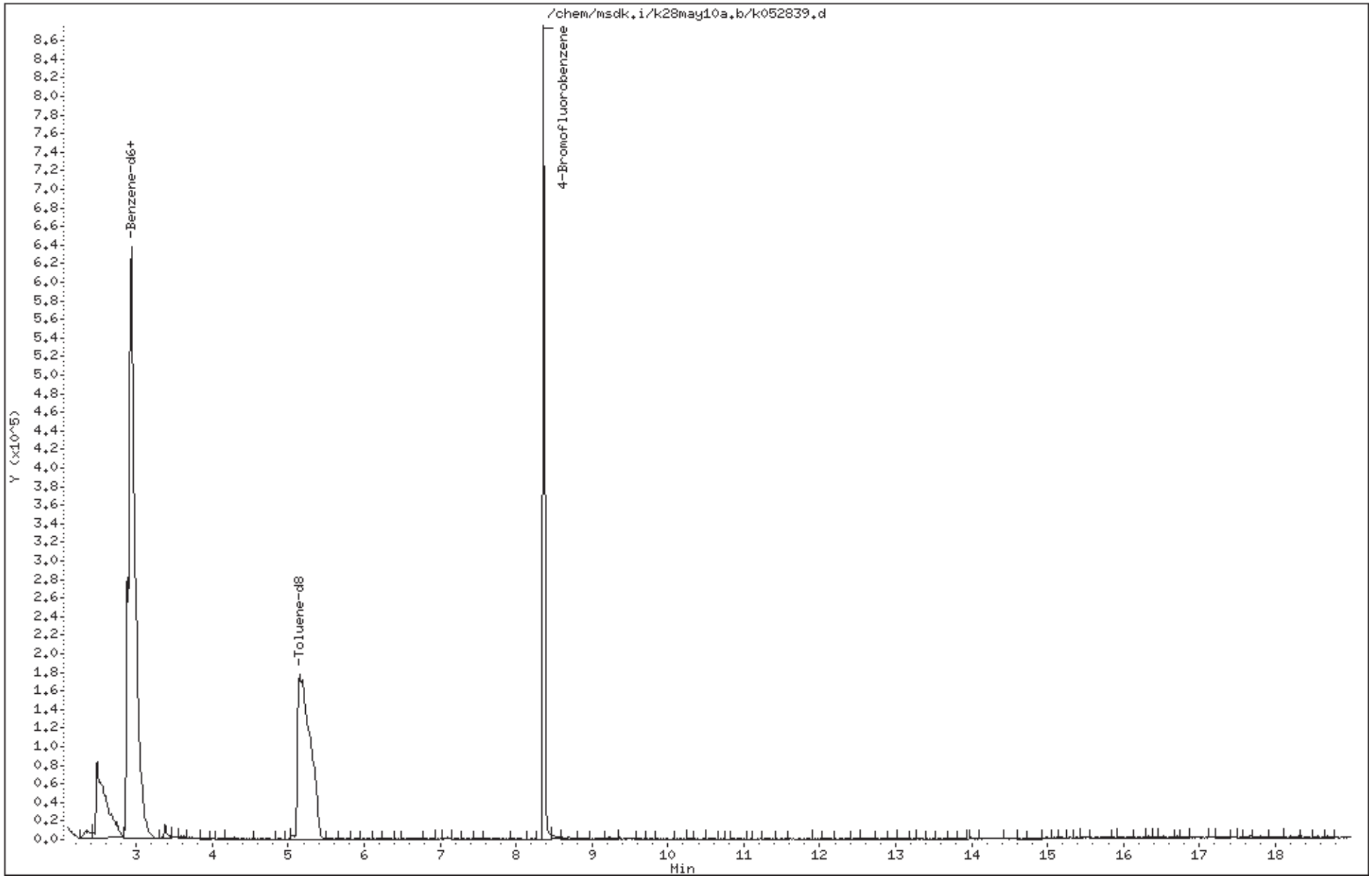
Instrument: msdk.i

Sample Info: ;1005453C-24B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: ALF-1

Lab ID#: 1005453C-25AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: ALF-1

Lab ID#: 1005453C-25AB

SILOXANES - GC/MS

File Name:	**k052840**	**Date of Collection:**	**5/17/10 5:10:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**5/29/10 12:47 AM**

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	26	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	26	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	53	Not Detected	2600	Not Detected
Hexamethyldisiloxane	26	Not Detected	1300	Not Detected
Octamethyltrisiloxane	26	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 26.4

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	94	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052840.d
Lab Smp Id: 1005453C-25AB
Inj Date : 29-MAY-2010 00:47
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-25A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 11.20000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.869	2.881	(1.000)	718825	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.921	2.933	(1.018)	1123614	37.5633	37.6
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.136	5.158	(1.000)	650154	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.354	8.376	(1.000)	211723	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052841.d
Lab Smp Id: 1005453C-25B
Inj Date : 29-MAY-2010 01:10
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-25B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 15.20000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.881	(1.000)	725719	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.933	(1.018)	1143165	37.8539	37.8
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.147	5.158	(1.000)	649030	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.376	8.376	(1.000)	218933	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052840.d
Lab Smp Id: 1005453C-25AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	718825	-6.35
6 Toluene-d8	708584	354292	1417168	650154	-8.25
8 4-Bromofluorobenz	250041	125020	500082	211723	-15.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.87	-0.42
6 Toluene-d8	5.16	4.66	5.66	5.14	-0.44
8 4-Bromofluorobenz	8.38	7.88	8.88	8.35	-0.27

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052841.d
Lab Smp Id: 1005453C-25B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	725719	-5.45
6 Toluene-d8	708584	354292	1417168	649030	-8.40
8 4-Bromofluorobenz	250041	125020	500082	218933	-12.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.87	-0.39
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.22
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-25AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	37.6	93.91	70-130

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-25B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	37.8	94.63	70-130

Data File: /chem/msdk.i/k28may10a.b/k052840.d

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Date : 29-MAY-2010 00:47

Client ID:

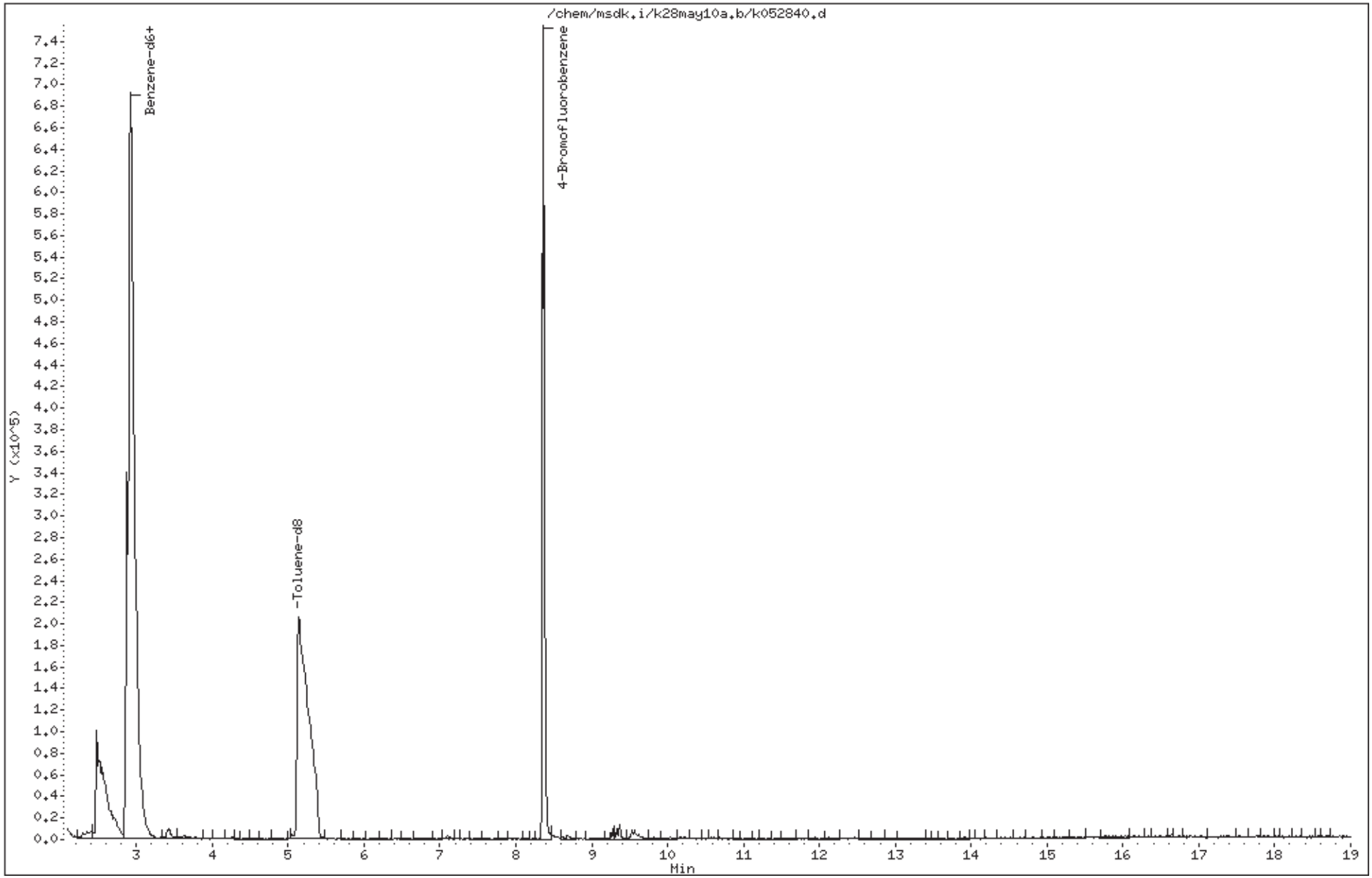
Instrument: msdk.i

Sample Info: ;1005453C-25A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052841.d

Date : 29-MAY-2010 01:10

Client ID:

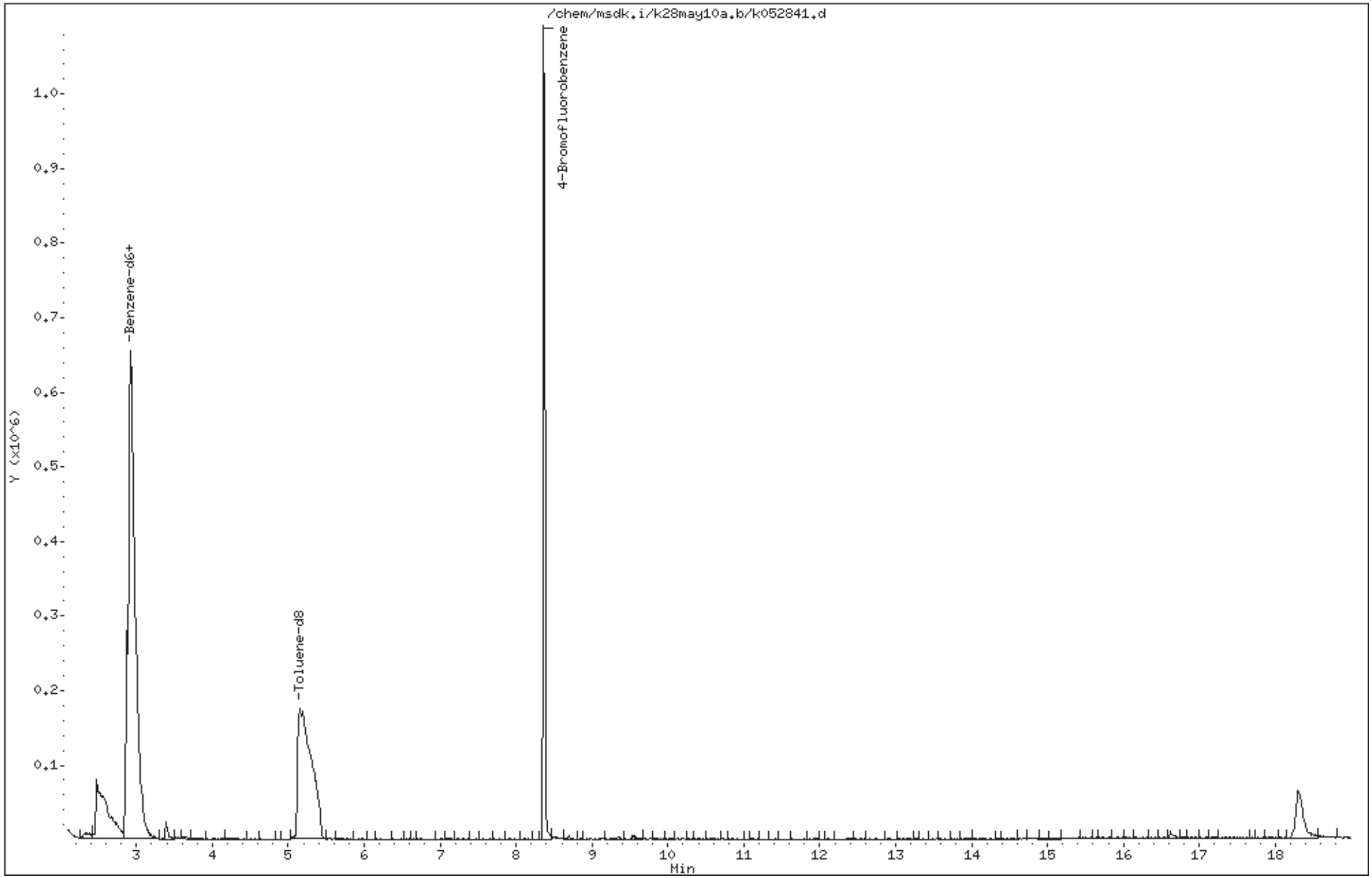
Instrument: msdk.i

Sample Info: ;1005453C-25B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: ALF-2

Lab ID#: 1005453C-26AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: ALF-2

Lab ID#: 1005453C-26AB

SILOXANES - GC/MS

File Name:	**k052842**	**Date of Collection:**	**5/17/10 5:27:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**5/29/10 01:34 AM**

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	27	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	27	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	54	Not Detected	2600	Not Detected
Hexamethyldisiloxane	27	Not Detected	1300	Not Detected
Octamethyltrisiloxane	27	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 27.0

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	92	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052842.d
Lab Smp Id: 1005453C-26AB
Inj Date : 29-MAY-2010 01:34
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-26A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 12.70000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.869	2.881	(1.000)	734002	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.921	2.933	(1.018)	1126452	36.8795	36.9
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.135	5.158	(1.000)	657509	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.354	8.376	(1.000)	214245	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052843.d
Lab Smp Id: 1005453C-26B
Inj Date : 29-MAY-2010 01:58
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-26B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.30000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.881	(1.000)	781153	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.933	(1.018)	1229646	37.8281	37.8
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.136	5.158	(1.000)	699804	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.376	(1.000)	238451	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052842.d
Lab Smp Id: 1005453C-26AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	734002	-4.37
6 Toluene-d8	708584	354292	1417168	657509	-7.21
8 4-Bromofluorobenz	250041	125020	500082	214245	-14.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.87	-0.42
6 Toluene-d8	5.16	4.66	5.66	5.14	-0.44
8 4-Bromofluorobenz	8.38	7.88	8.88	8.35	-0.27

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052843.d
Lab Smp Id: 1005453C-26B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	781153	1.77
6 Toluene-d8	708584	354292	1417168	699804	-1.24
8 4-Bromofluorobenz	250041	125020	500082	238451	-4.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.87	-0.40
6 Toluene-d8	5.16	4.66	5.66	5.14	-0.42
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-26AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	36.9	92.20	70-130

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-26B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	37.8	94.57	70-130

Data File: /chem/msdk.i/k28may10a.b/k052842.d

Page 1

Date : 29-MAY-2010 01:34

Client ID:

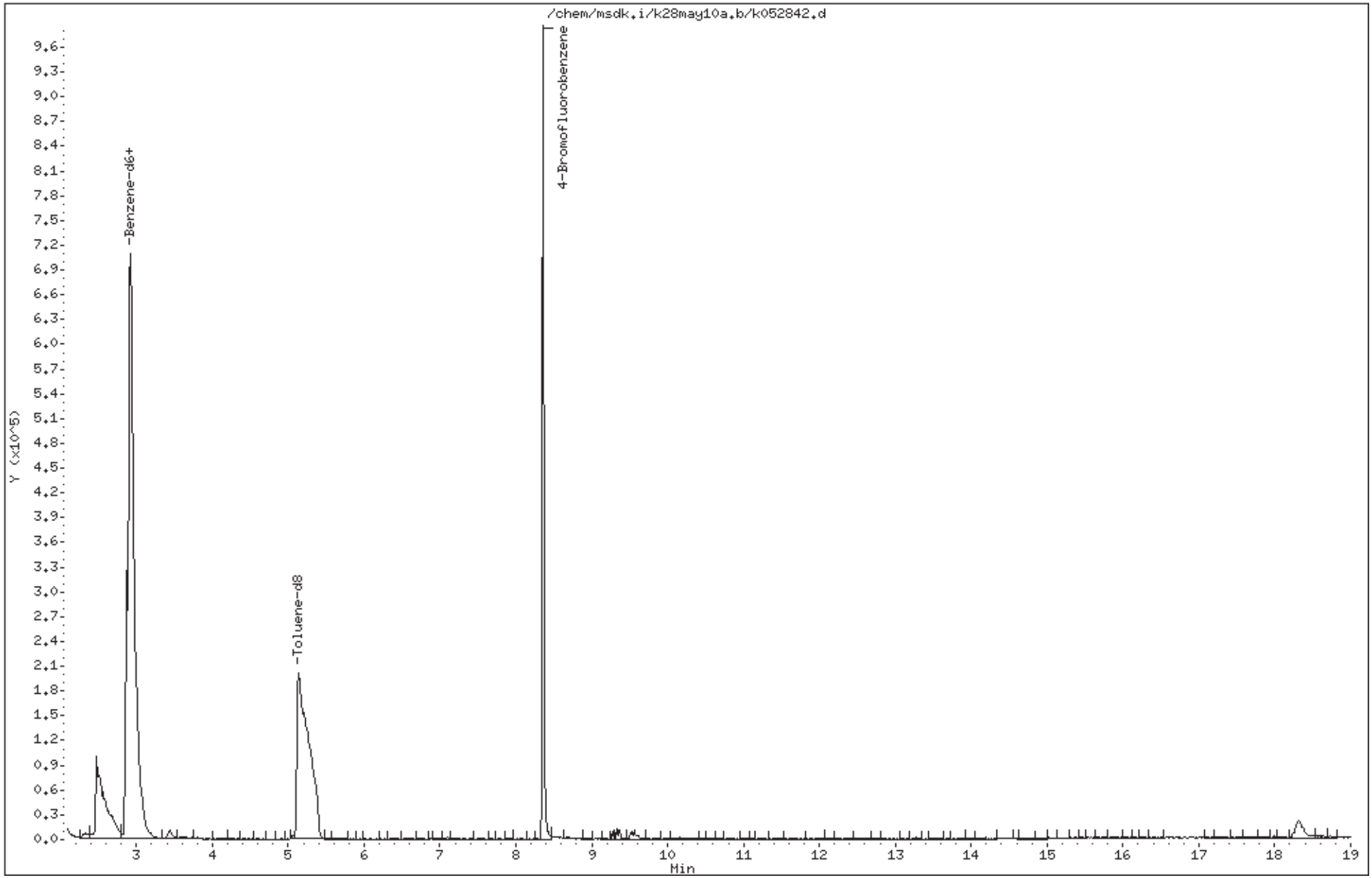
Instrument: msdk.i

Sample Info: ;1005453C-26A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052843.d

Page 1

Date : 29-MAY-2010 01:58

Client ID:

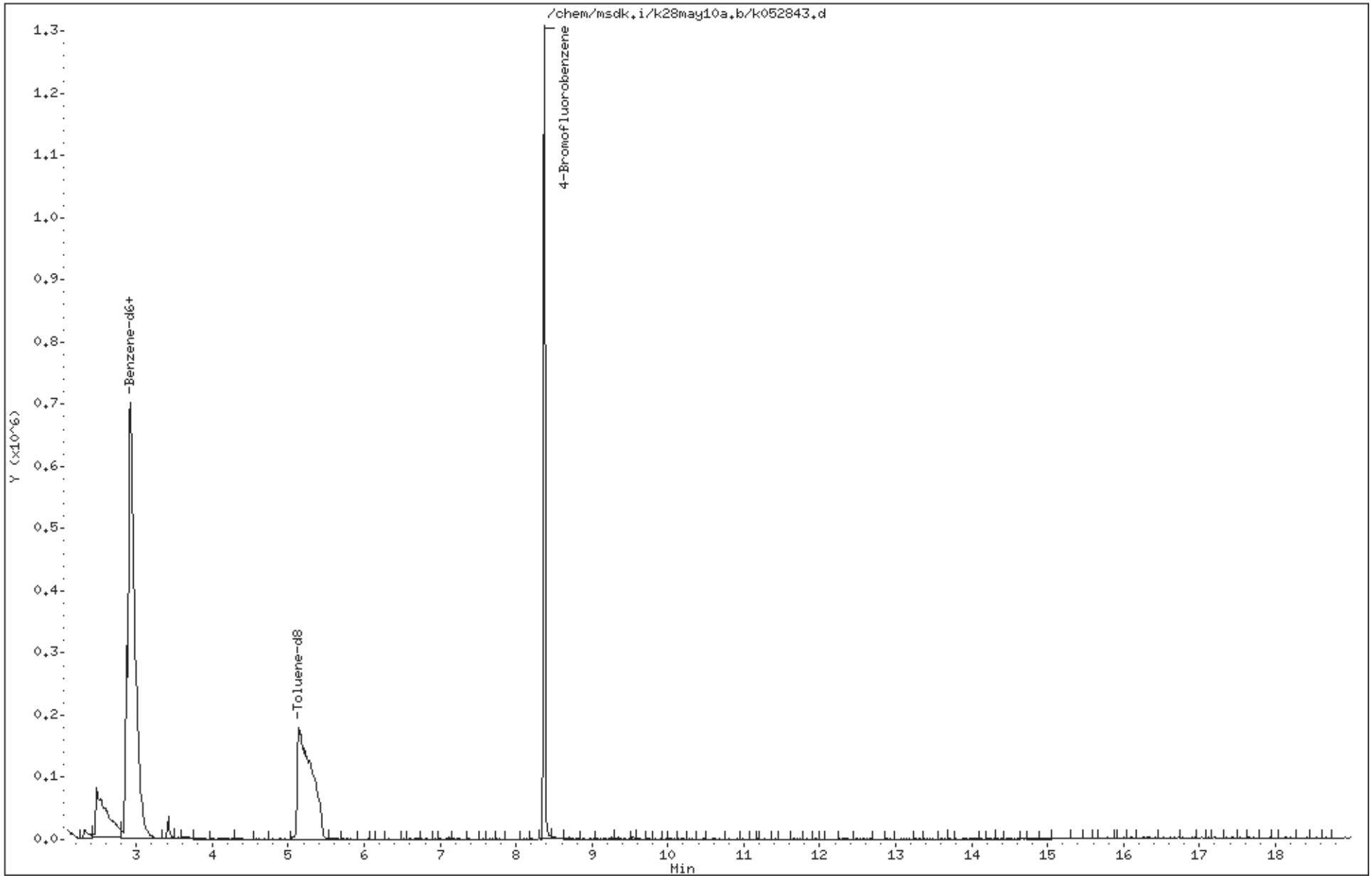
Instrument: msdk.i

Sample Info: ;1005453C-26B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: ALF-3

Lab ID#: 1005453C-27AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: ALF-3

Lab ID#: 1005453C-27AB

SILOXANES - GC/MS

File Name:	**k052844**	**Date of Collection:**	**5/17/10 5:39:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**5/29/10 02:22 AM**

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	28	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	28	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	56	Not Detected	2700	Not Detected
Hexamethyldisiloxane	28	Not Detected	1300	Not Detected
Octamethyltrisiloxane	28	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 27.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	96	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052844.d
Lab Smp Id: 1005453C-27AB
Inj Date : 29-MAY-2010 02:22
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-27A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 13.60000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.862	2.881	(1.000)	758632	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.924	2.933	(1.022)	1204797	38.1639	38.2
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.139	5.158	(1.000)	682539	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.367	8.376	(1.000)	221678	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052845.d
Lab Smp Id: 1005453C-27B
Inj Date : 29-MAY-2010 02:46
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-27B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.20000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.860	2.881	(1.000)	831311	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.912	2.933	(1.018)	1308935	37.8377	37.8
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.147	5.158	(1.000)	726241	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.376	(1.000)	240803	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052844.d
Lab Smp Id: 1005453C-27AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	758632	-1.16
6 Toluene-d8	708584	354292	1417168	682539	-3.68
8 4-Bromofluorobenz	250041	125020	500082	221678	-11.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.86	-0.67
6 Toluene-d8	5.16	4.66	5.66	5.14	-0.37
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052845.d
Lab Smp Id: 1005453C-27B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	831311	8.30
6 Toluene-d8	708584	354292	1417168	726241	2.49
8 4-Bromofluorobenz	250041	125020	500082	240803	-3.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.86	-0.75
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.22
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-27AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	38.2	95.41	70-130

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-27B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	37.8	94.59	70-130

Data File: /chem/msdk.i/k28may10a.b/k052844.d

Page 1

Date : 29-MAY-2010 02:22

Client ID:

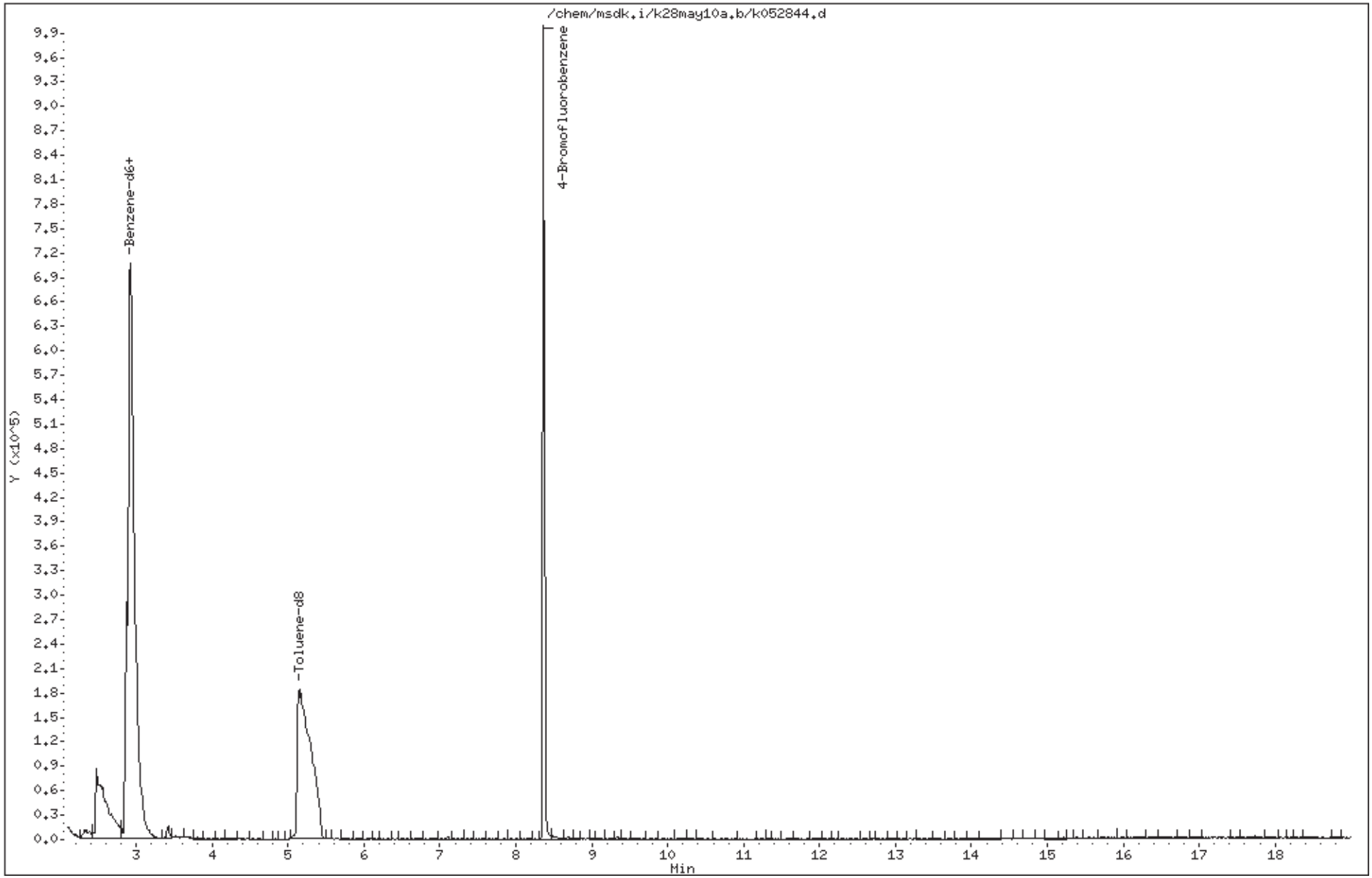
Instrument: msdk.i

Sample Info: ;1005453C-27A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052845.d

Date : 29-MAY-2010 02:46

Client ID:

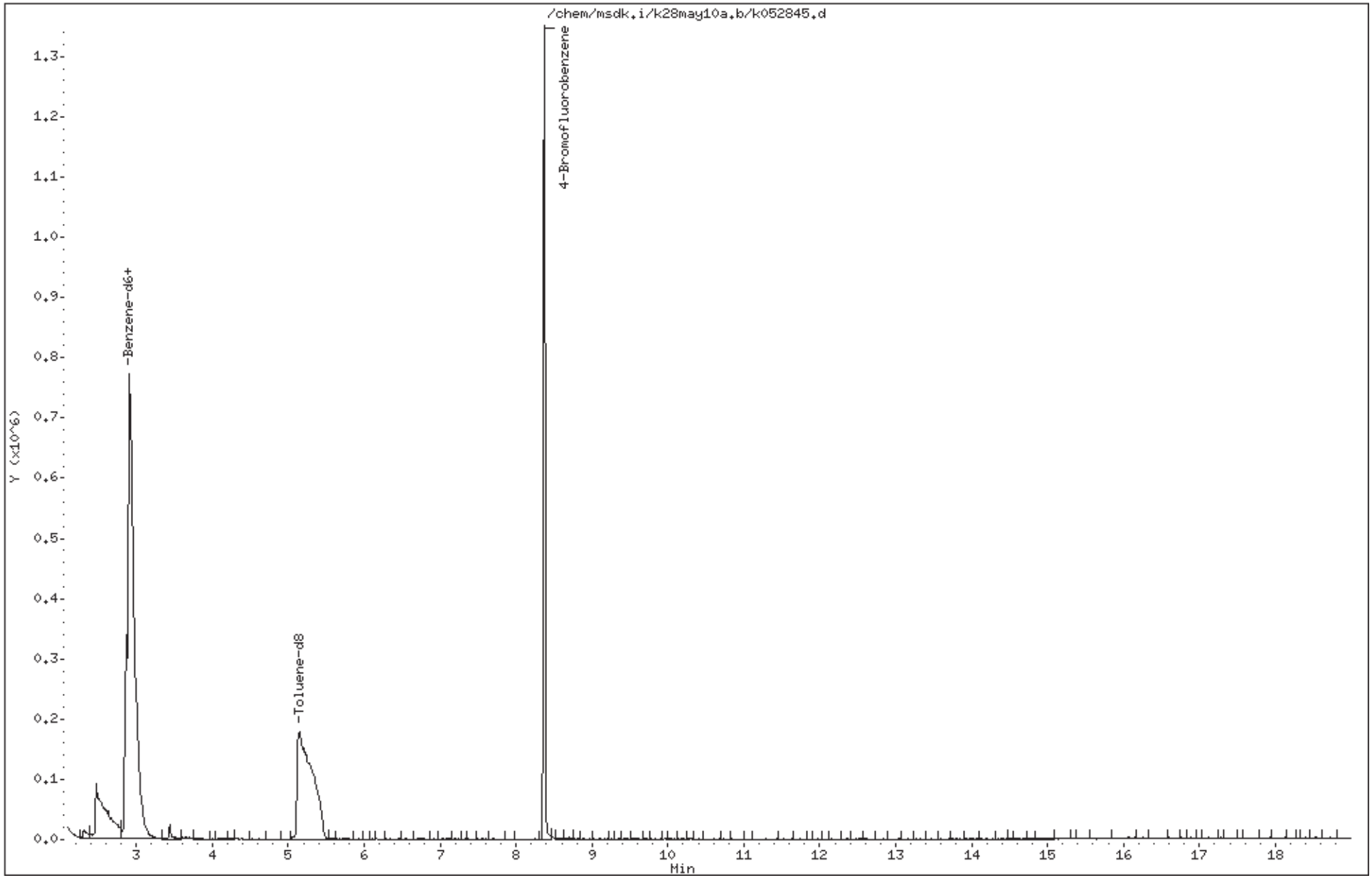
Instrument: msdk.i

Sample Info: ;1005453C-27B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: ALF-4

Lab ID#: 1005453C-28AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: ALF-4

Lab ID#: 1005453C-28AB

SILOXANES - GC/MS

File Name:	**k052846**	**Date of Collection: 5/17/10 5:47:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/29/10 03:09 AM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	29	Not Detected	1400	Not Detected
Decamethylcylopentasiloxane (D5)	29	Not Detected	1400	Not Detected
Dodecamethylcyclohexasiloxane (D6)	58	Not Detected	2800	Not Detected
Hexamethyldisiloxane	29	Not Detected	1400	Not Detected
Octamethyltrisiloxane	29	Not Detected	1400	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 29.2

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	92	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052846.d
Lab Smp Id: 1005453C-28AB
Inj Date : 29-MAY-2010 03:09
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-28A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 13.30000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.860	2.881	(1.000)	765869	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.911	2.933	(1.018)	1165938	36.5840	36.6
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.136	5.158	(1.000)	669364	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.365	8.376	(1.000)	220425	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052847.d
Lab Smp Id: 1005453C-28B
Inj Date : 29-MAY-2010 03:33
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-28B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 15.90000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.859	2.881	(1.000)	813704	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.910	2.933	(1.018)	1254156	37.0387	37.0
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.156	5.158	(1.000)	712939	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.374	8.376	(1.000)	229099	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052846.d
Lab Smp Id: 1005453C-28AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	765869	-0.22
6 Toluene-d8	708584	354292	1417168	669364	-5.53
8 4-Bromofluorobenz	250041	125020	500082	220425	-11.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.86	-0.76
6 Toluene-d8	5.16	4.66	5.66	5.14	-0.43
8 4-Bromofluorobenz	8.38	7.88	8.88	8.36	-0.14

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052847.d
Lab Smp Id: 1005453C-28B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	813704	6.01
6 Toluene-d8	708584	354292	1417168	712939	0.61
8 4-Bromofluorobenz	250041	125020	500082	229099	-8.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.86	-0.79
6 Toluene-d8	5.16	4.66	5.66	5.16	-0.04
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-28AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	36.6	91.46	70-130

Report Date: 02-Jun-2010 20:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-28B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	37.0	92.60	70-130

Data File: /chem/msdk.i/k28may10a.b/k052846.d

Page 1

Date : 29-MAY-2010 03:09

Client ID:

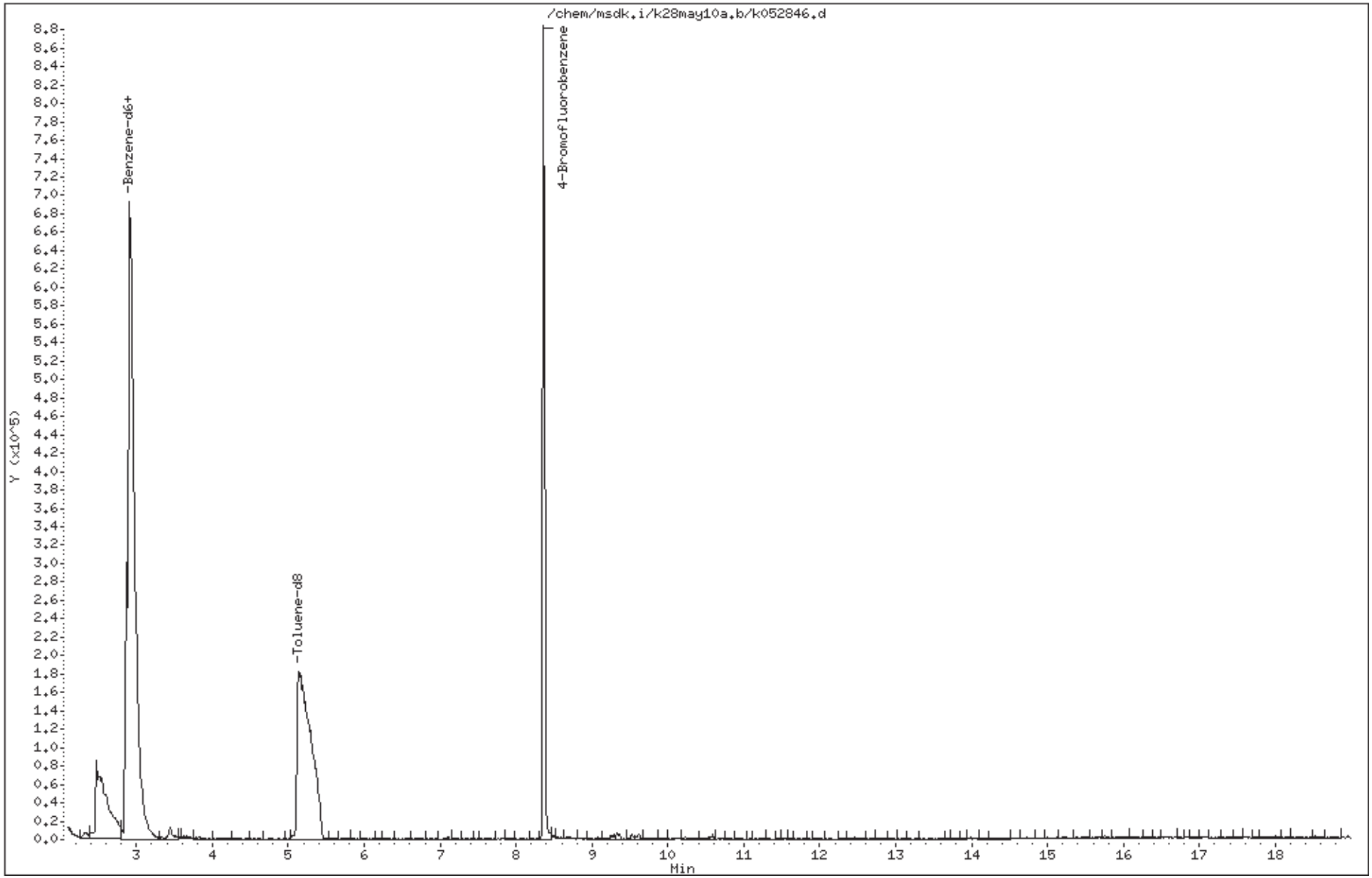
Instrument: msdk.i

Sample Info: ;1005453C-28A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052847.d

Page 1

Date : 29-MAY-2010 03:33

Client ID:

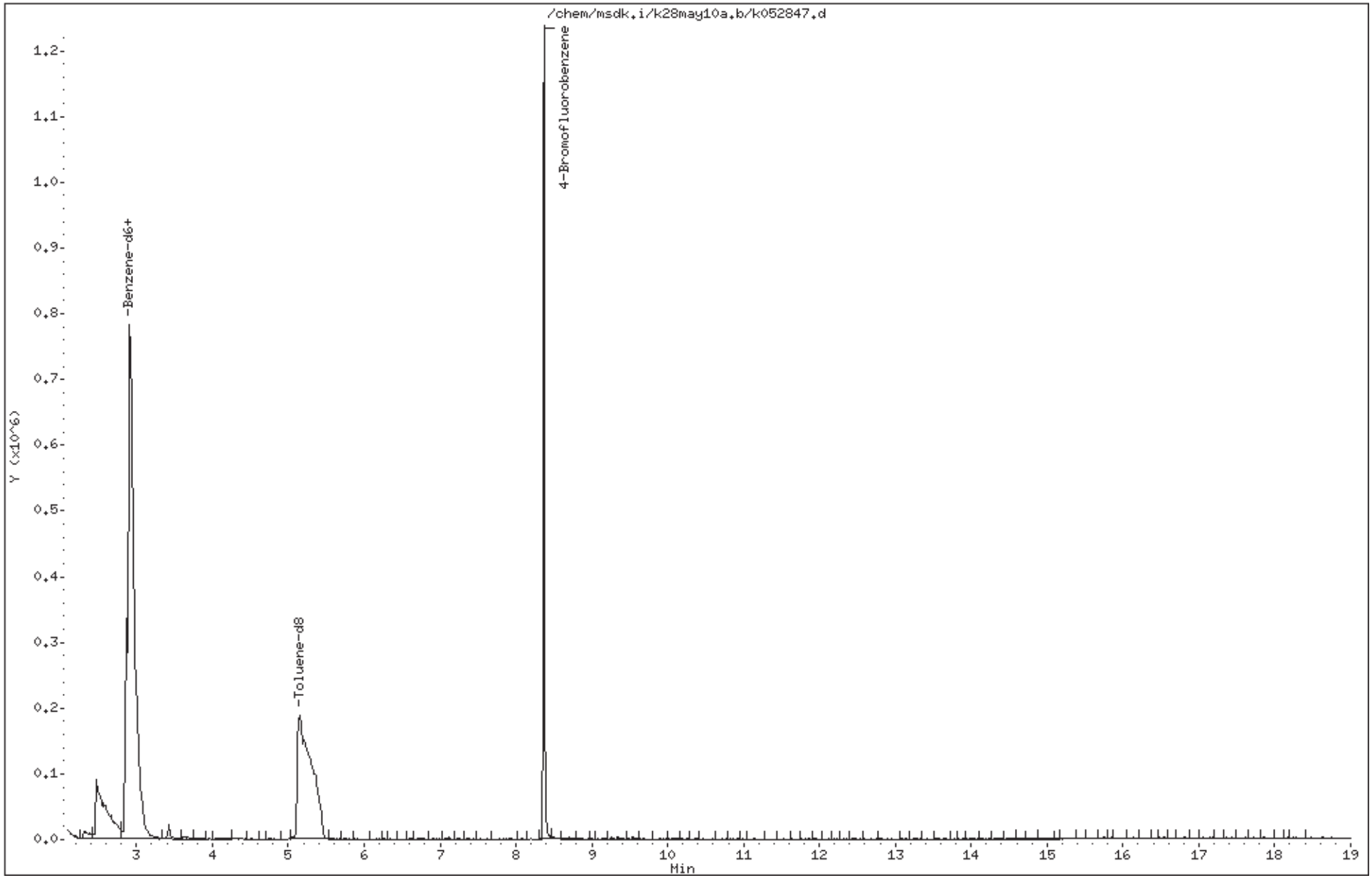
Instrument: msdk.i

Sample Info: ;1005453C-28B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: ALF-5

Lab ID#: 1005453C-29AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: ALF-5

Lab ID#: 1005453C-29AB

SILOXANES - GC/MS

File Name:	**k052026**	**Date of Collection: 5/17/10 6:01:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/10 07:14 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	28	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	28	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	56	Not Detected	2600	Not Detected
Hexamethyldisiloxane	28	Not Detected	1300	Not Detected
Octamethyltrisiloxane	28	Not Detected	1300	Not Detected

Air Sample Volume(L): 21.2
Impinger Total Volume(mL): 27.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	104	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k20may10.b/k052026.d
Lab Smp Id: 1005453C-29AB
Inj Date : 20-MAY-2010 19:14
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-29A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 13.70000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.872	2.873	(1.000)	1203871	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.924	2.924	(1.018)	2079305	41.5058	41.5
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.159	5.159	(1.000)	1138168	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.367	8.388	(1.000)	374138	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k20may10.b/k052030.d
Lab Smp Id: 1005453C-29B
Inj Date : 20-MAY-2010 20:50
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-29B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.10000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.872	2.873	(1.000)	1128799	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.923	2.924	(1.018)	1908973	40.6400	40.6
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.190	5.159	(1.000)	1049522	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.377	8.388	(1.000)	331893	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 02-Jun-2010 20:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052026.d
Lab Smp Id: 1005453C-29AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1203871	2.47
6 Toluene-d8	1158115	579058	2316230	1138168	-1.72
8 4-Bromofluorobenz	415107	207554	830214	374138	-9.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.00
6 Toluene-d8	5.16	4.66	5.66	5.16	0.00
8 4-Bromofluorobenz	8.39	7.89	8.89	8.37	-0.25

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052030.d
Lab Smp Id: 1005453C-29B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1128799	-3.92
6 Toluene-d8	1158115	579058	2316230	1049522	-9.38
8 4-Bromofluorobenz	415107	207554	830214	331893	-20.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.03
6 Toluene-d8	5.16	4.66	5.66	5.19	0.58
8 4-Bromofluorobenz	8.39	7.89	8.89	8.38	-0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k20may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-29AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.5	103.76	70-130

Report Date: 02-Jun-2010 20:53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k20may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-29B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.6	101.60	70-130

Data File: /chem/msdk.i/k20may10.b/k052026.d

Page 1

Date : 20-MAY-2010 19:14

Client ID:

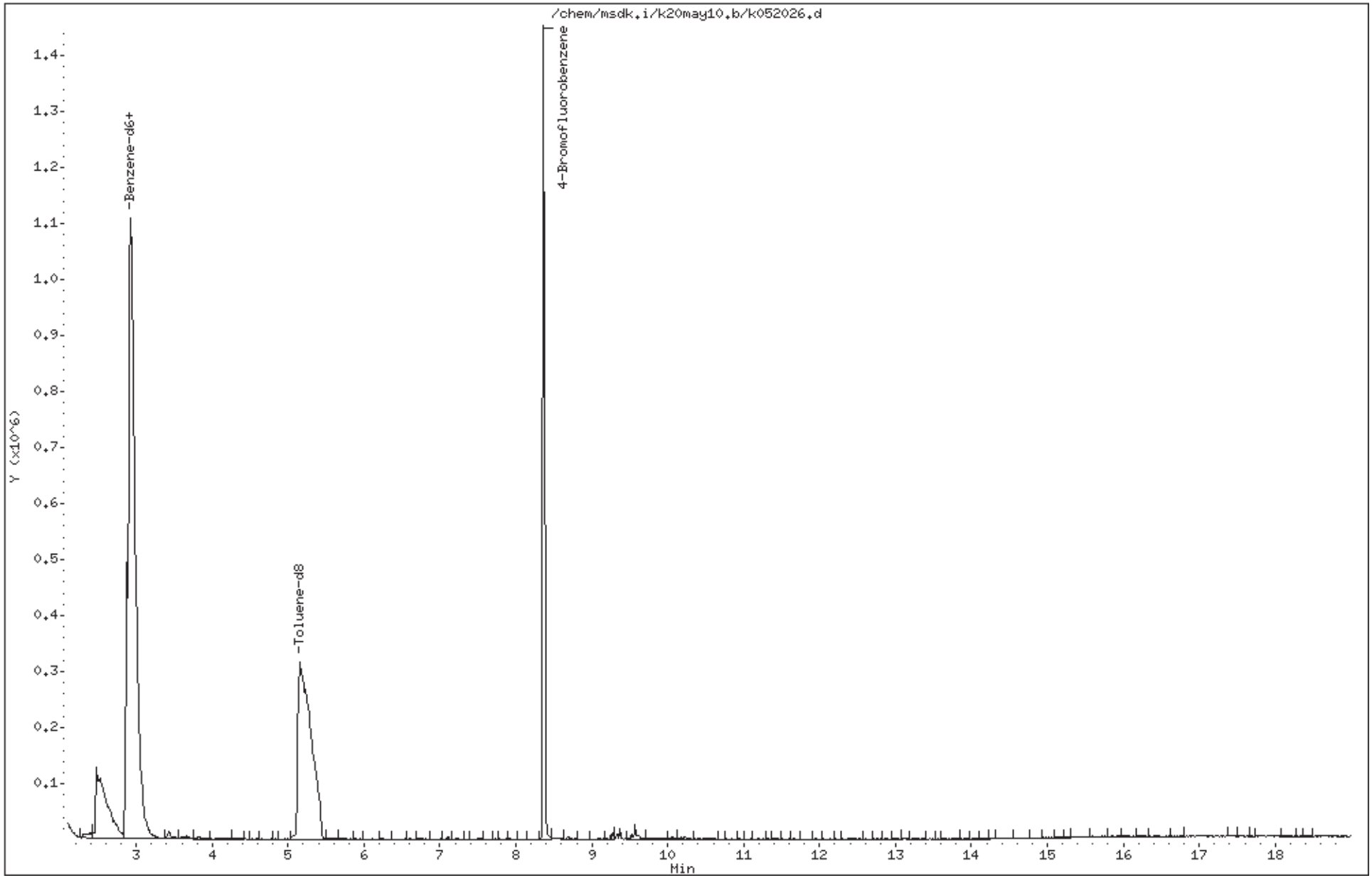
Instrument: msdk.i

Sample Info: ;1005453C-29A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k20may10.b/k052030.d

Page 1

Date : 20-MAY-2010 20:50

Client ID:

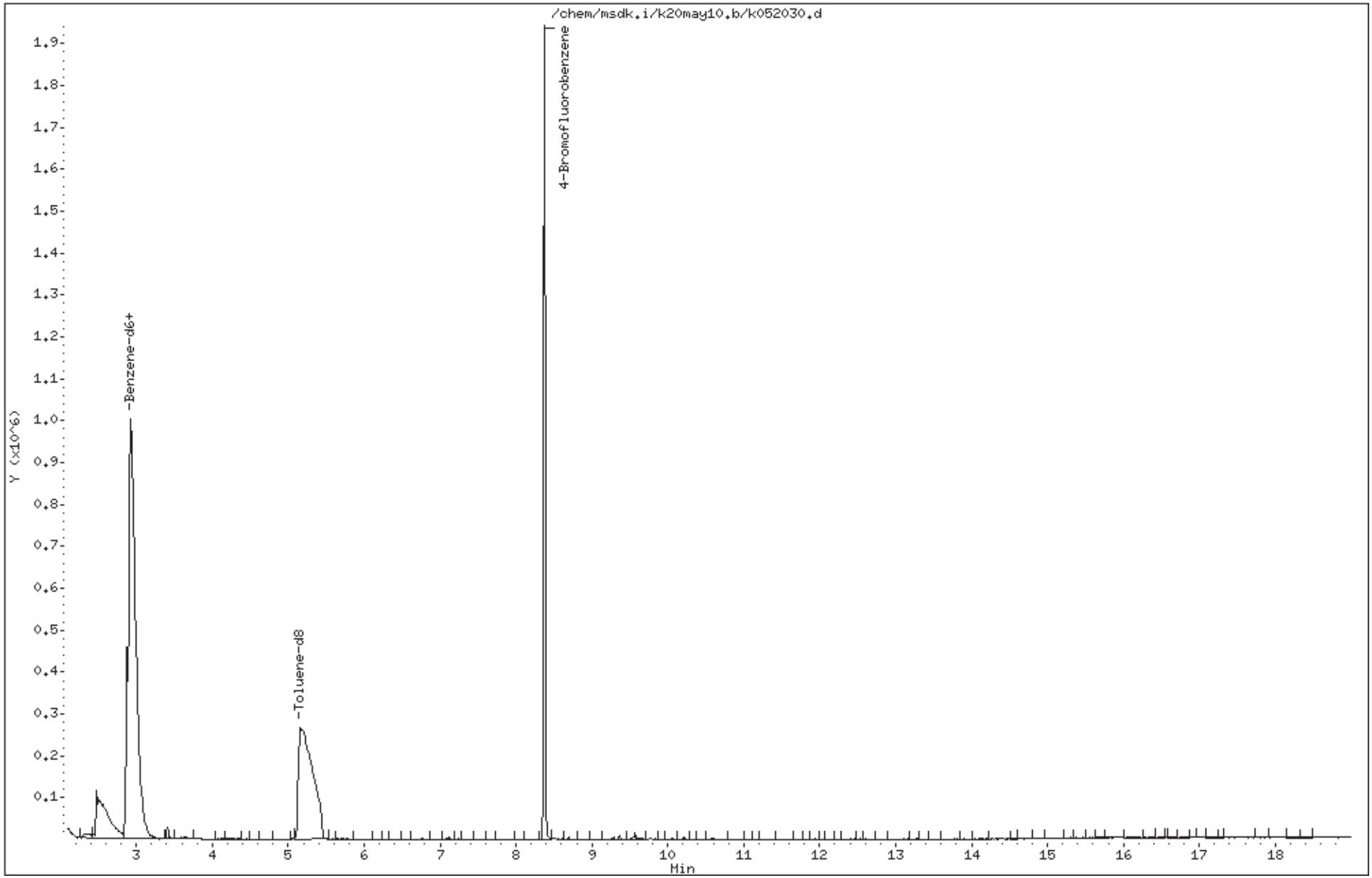
Instrument: msdk.i

Sample Info: ;1005453C-29B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: AOS-2

Lab ID#: 1005453C-30AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: AOS-2

Lab ID#: 1005453C-30AB

SILOXANES - GC/MS

File Name:	**k052027**	**Date of Collection: 5/17/10 9:57:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/10 07:38 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	28	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	28	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	56	Not Detected	2700	Not Detected
Hexamethyldisiloxane	28	Not Detected	1300	Not Detected
Octamethyltrisiloxane	28	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 27.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	105	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k20may10.b/k052027.d
Lab Smp Id: 1005453C-30AB
Inj Date : 20-MAY-2010 19:38
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-30A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 12.90000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.873	(1.000)	1187008	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.922	2.924	(1.018)	2072379	41.9552	42.0
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.157	5.159	(1.000)	1106401	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.365	8.388	(1.000)	353813	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k20may10.b/k052031.d
Lab Smp Id: 1005453C-30B
Inj Date : 20-MAY-2010 21:14
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-30B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.90000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.870	2.873	(1.000)	1084607	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.932	2.924	(1.022)	1840233	40.7728	40.8
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.157	5.159	(1.000)	1006163	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.388	(1.000)	331381	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052027.d
Lab Smp Id: 1005453C-30AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1187008	1.03
6 Toluene-d8	1158115	579058	2316230	1106401	-4.47
8 4-Bromofluorobenz	415107	207554	830214	353813	-14.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.08
6 Toluene-d8	5.16	4.66	5.66	5.16	-0.04
8 4-Bromofluorobenz	8.39	7.89	8.89	8.37	-0.27

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052031.d
Lab Smp Id: 1005453C-30B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1084607	-7.68
6 Toluene-d8	1158115	579058	2316230	1006163	-13.12
8 4-Bromofluorobenz	415107	207554	830214	331381	-20.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.10
6 Toluene-d8	5.16	4.66	5.66	5.16	-0.05
8 4-Bromofluorobenz	8.39	7.89	8.89	8.37	-0.16

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k20may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-30AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	42.0	104.89	70-130

Report Date: 02-Jun-2010 20:53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k20may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-30B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.8	101.93	70-130

Data File: /chem/msdk.i/k20may10.b/k052027.d

Page 1

Date : 20-MAY-2010 19:38

Client ID:

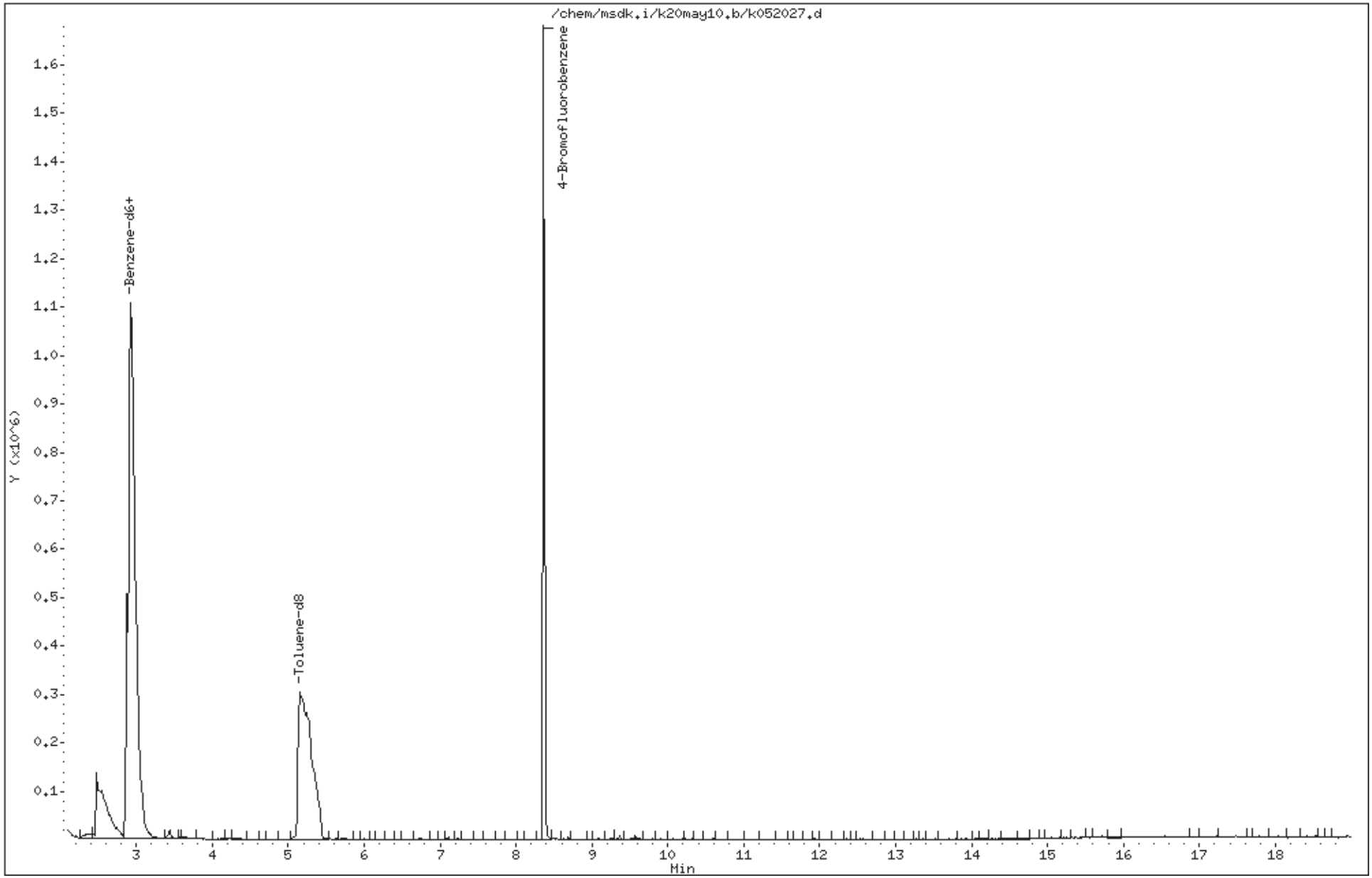
Instrument: msdk.i

Sample Info: ;1005453C-30A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k20may10.b/k052031.d

Page 1

Date : 20-MAY-2010 21:14

Client ID:

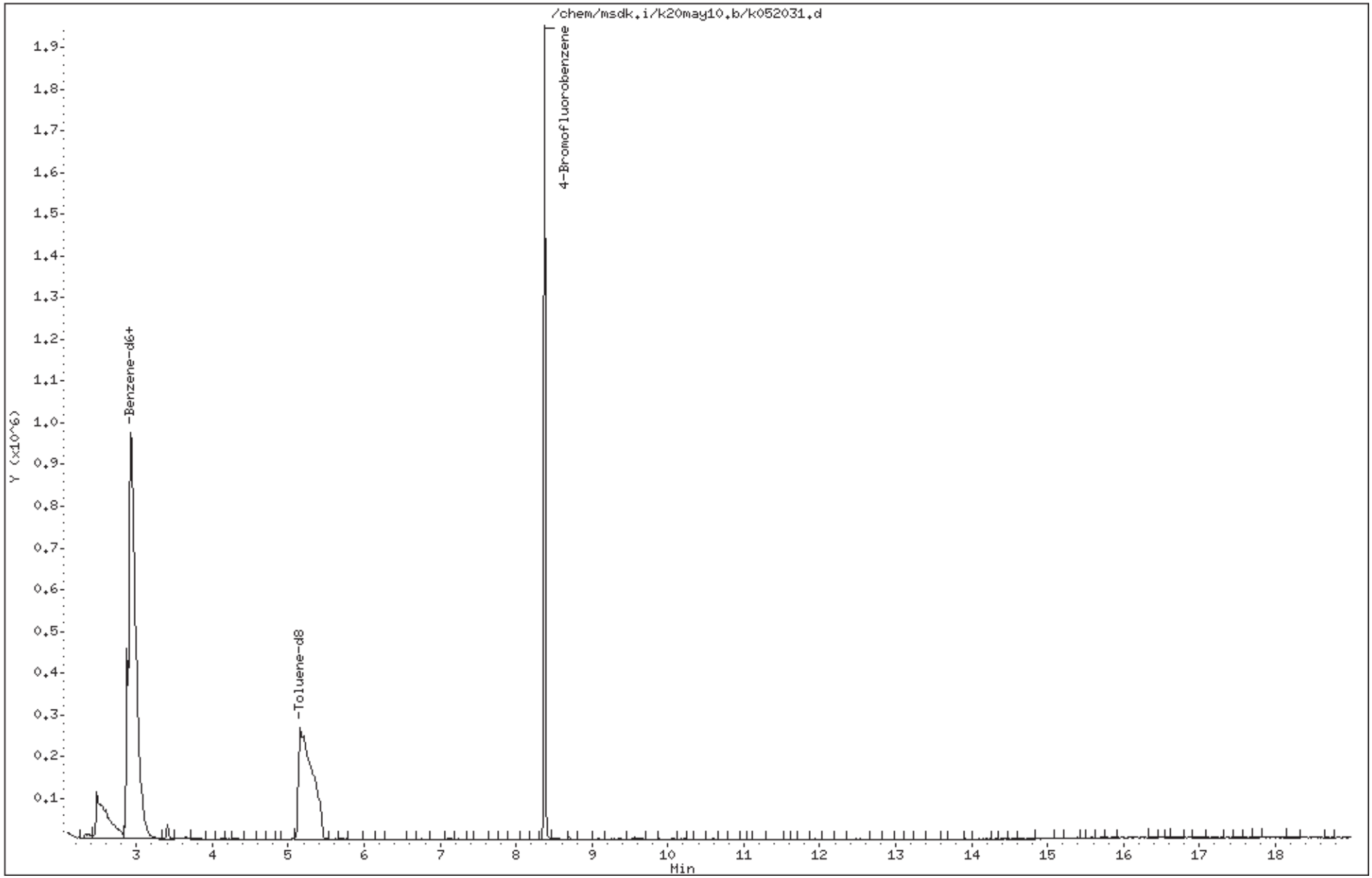
Instrument: msdk.i

Sample Info: ;1005453C-30B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: AOS-3

Lab ID#: 1005453C-31AB

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: AOS-3

Lab ID#: 1005453C-31AB

SILOXANES - GC/MS

File Name:	**k052607**	**Date of Collection: 5/17/10 8:18:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/10 11:41 AM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	28	Not Detected	1400	Not Detected
Decamethylcylopentasiloxane (D5)	28	Not Detected	1400	Not Detected
Dodecamethylcyclohexasiloxane (D6)	57	Not Detected	2700	Not Detected
Hexamethyldisiloxane	28	Not Detected	1400	Not Detected
Octamethyltrisiloxane	28	Not Detected	1400	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 28.4

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	105	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26may10.b/k052607.d
Lab Smp Id: 1005453C-31AB
Inj Date : 26-MAY-2010 11:41
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-31A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.50000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
*	3 Benzene-d6	84	2.870	2.870	(1.000)	872270	40.0000	
$	4 Hexamethyldisiloxane-d18	162	2.922	2.932	(1.018)	1524838	42.0091	42.0
	5 hexamethyldisiloxane(mm)	147	Compound Not Detected.					
*	6 Toluene-d8	98	5.146	5.157	(1.000)	812581	40.0000	
	7 octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
*	8 4-Bromofluorobenzene	174	8.375	8.385	(1.000)	266402	40.0000	
	9 octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
	10 deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
	165 Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26may10.b/k052609.d
Lab Smp Id: 1005453C-31B
Inj Date : 26-MAY-2010 12:29
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-31B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 13.90000 final volume

Cpnd Variable Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(uG/mL)	(ug)
* 3	Benzene-d6	84	2.880	2.870	(1.000)	774794	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.932	2.932	(1.018)	1342421	41.6363	41.6
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.156	5.157	(1.000)	731822	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.375	8.385	(1.000)	246371	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052607.d
Lab Smp Id: 1005453C-31AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	872270	-13.42
6 Toluene-d8	948941	474470	1897882	812581	-14.37
8 4-Bromofluorobenz	315762	157881	631524	266402	-15.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.01
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.19
8 4-Bromofluorobenz	8.39	7.89	8.89	8.38	-0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052609.d
Lab Smp Id: 1005453C-31B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	774794	-23.09
6 Toluene-d8	948941	474470	1897882	731822	-22.88
8 4-Bromofluorobenz	315762	157881	631524	246371	-21.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.35
6 Toluene-d8	5.16	4.66	5.66	5.16	0.00
8 4-Bromofluorobenz	8.39	7.89	8.89	8.37	-0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-31AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	42.0	105.02	70-130

Report Date: 02-Jun-2010 20:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-31B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.6	104.09	70-130

Data File: /chem/msdk.i/k26may10.b/k052607.d

Date : 26-MAY-2010 11:41

Client ID:

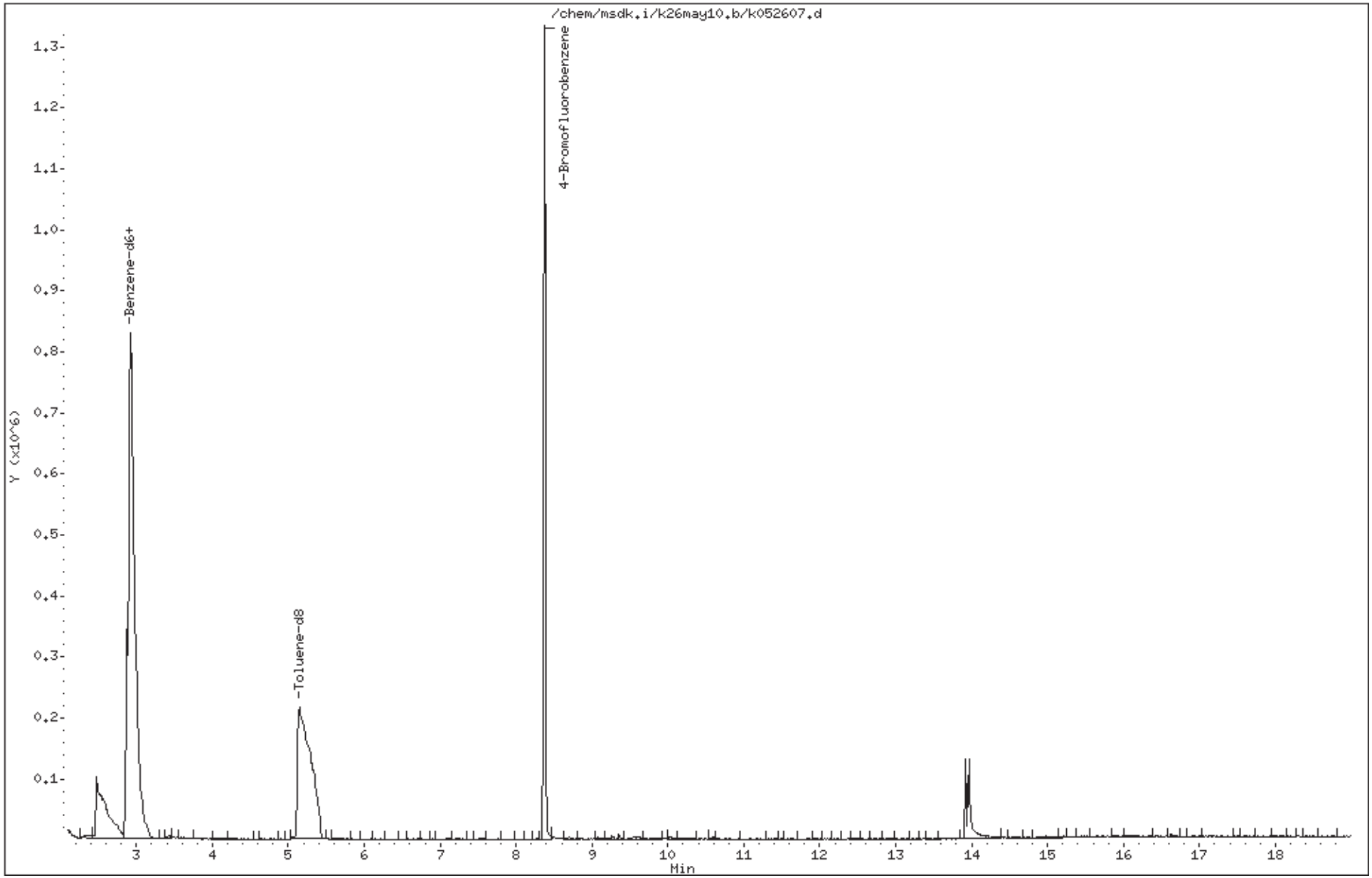
Instrument: msdk.i

Sample Info: ;1005453C-31A;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k26may10.b/k052609.d

Page 1

Date : 26-MAY-2010 12:29

Client ID:

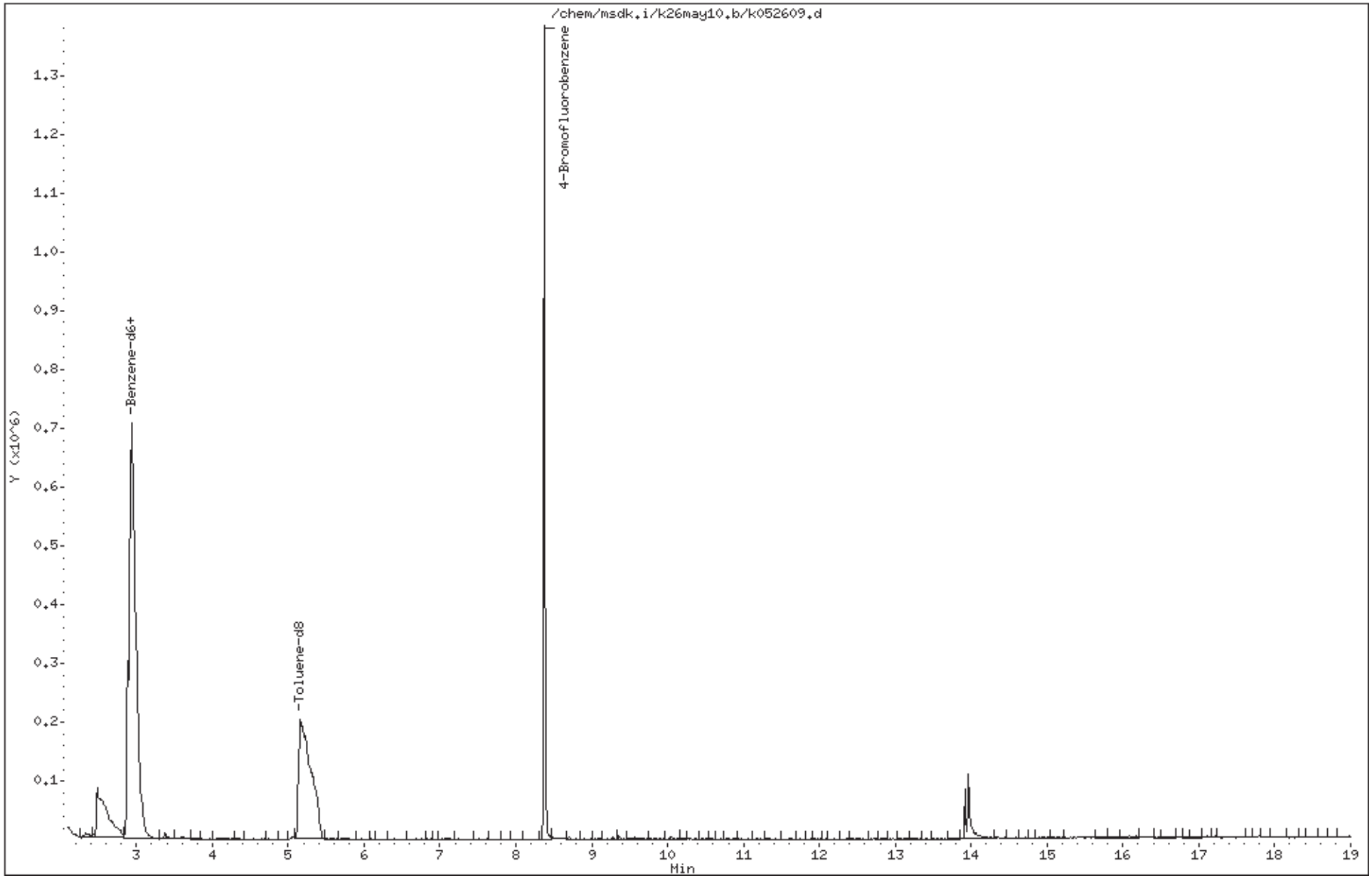
Instrument: msdk.i

Sample Info: ;1005453C-31B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
SILOXANES - GC/MS

Client Sample ID: GV-13

Lab ID#: 1005453C-32AB

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexamethyldisiloxane	27	64	1300	3100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-13

Lab ID#: 1005453C-32AB

SILOXANES - GC/MS

File Name:	**k052608**	**Date of Collection: 5/16/10 3:27:00 PM**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/10 12:05 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	27	Not Detected	1300	Not Detected
Decamethylcylopentasiloxane (D5)	27	Not Detected	1300	Not Detected
Dodecamethylcyclohexasiloxane (D6)	54	Not Detected	2600	Not Detected
Hexamethyldisiloxane	27	64	1300	3100
Octamethyltrisiloxane	27	Not Detected	1300	Not Detected

Air Sample Volume(L): 20.7
Impinger Total Volume(mL): 26.8

Container Type: Vial

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	105	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26may10.b/k052608.d
Lab Smp Id: 1005453C-32AB
Inj Date : 26-MAY-2010 12:05
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-32A;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 12.70000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
*	3 Benzene-d6	84	2.869	2.870	(1.000)	807687	40.0000	
$	4 Hexamethyldisiloxane-d18	162	2.931	2.932	(1.022)	1407367	41.8730	41.9
	5 hexamethyldisiloxane(mm)	147	3.056	3.056	(1.065)	86667	2.78820	35.4
*	6 Toluene-d8	98	5.146	5.157	(1.000)	787286	40.0000	
	7 octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
*	8 4-Bromofluorobenzene	174	8.385	8.385	(1.000)	270251	40.0000	
	9 octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
	10 deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
	165 Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k26may10.b/k052610.d
Lab Smp Id: 1005453C-32B
Inj Date : 26-MAY-2010 12:52
Operator : LZ Inst ID: msdk.i
Smp Info : ;1005453C-32B;
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 14.10000 final volume

Cpnd Variable Local Compound Variable

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (uG/mL)	FINAL (ug)
*	3 Benzene-d6	84	2.881	2.870	(1.000)	777993	40.0000	
$	4 Hexamethyldisiloxane-d18	162	2.932	2.932	(1.018)	1350656	41.7195	41.7
	5 hexamethyldisiloxane(mm)	147	3.067	3.056	(1.065)	61309	2.04768	28.9
*	6 Toluene-d8	98	5.157	5.157	(1.000)	736819	40.0000	
	7 octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
*	8 4-Bromofluorobenzene	174	8.376	8.385	(1.000)	246425	40.0000	
	9 octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
	10 deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
	165 Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052608.d
Lab Smp Id: 1005453C-32AB
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	807687	-19.83
6 Toluene-d8	948941	474470	1897882	787286	-17.04
8 4-Bromofluorobenz	315762	157881	631524	270251	-14.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.01
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.21
8 4-Bromofluorobenz	8.39	7.89	8.89	8.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052610.d
Lab Smp Id: 1005453C-32B
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	777993	-22.77
6 Toluene-d8	948941	474470	1897882	736819	-22.35
8 4-Bromofluorobenz	315762	157881	631524	246425	-21.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.39
6 Toluene-d8	5.16	4.66	5.66	5.16	0.01
8 4-Bromofluorobenz	8.39	7.89	8.89	8.38	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 02-Jun-2010 20:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-32AB
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.9	104.68	70-130

Report Date: 02-Jun-2010 20:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1005453C-32B
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

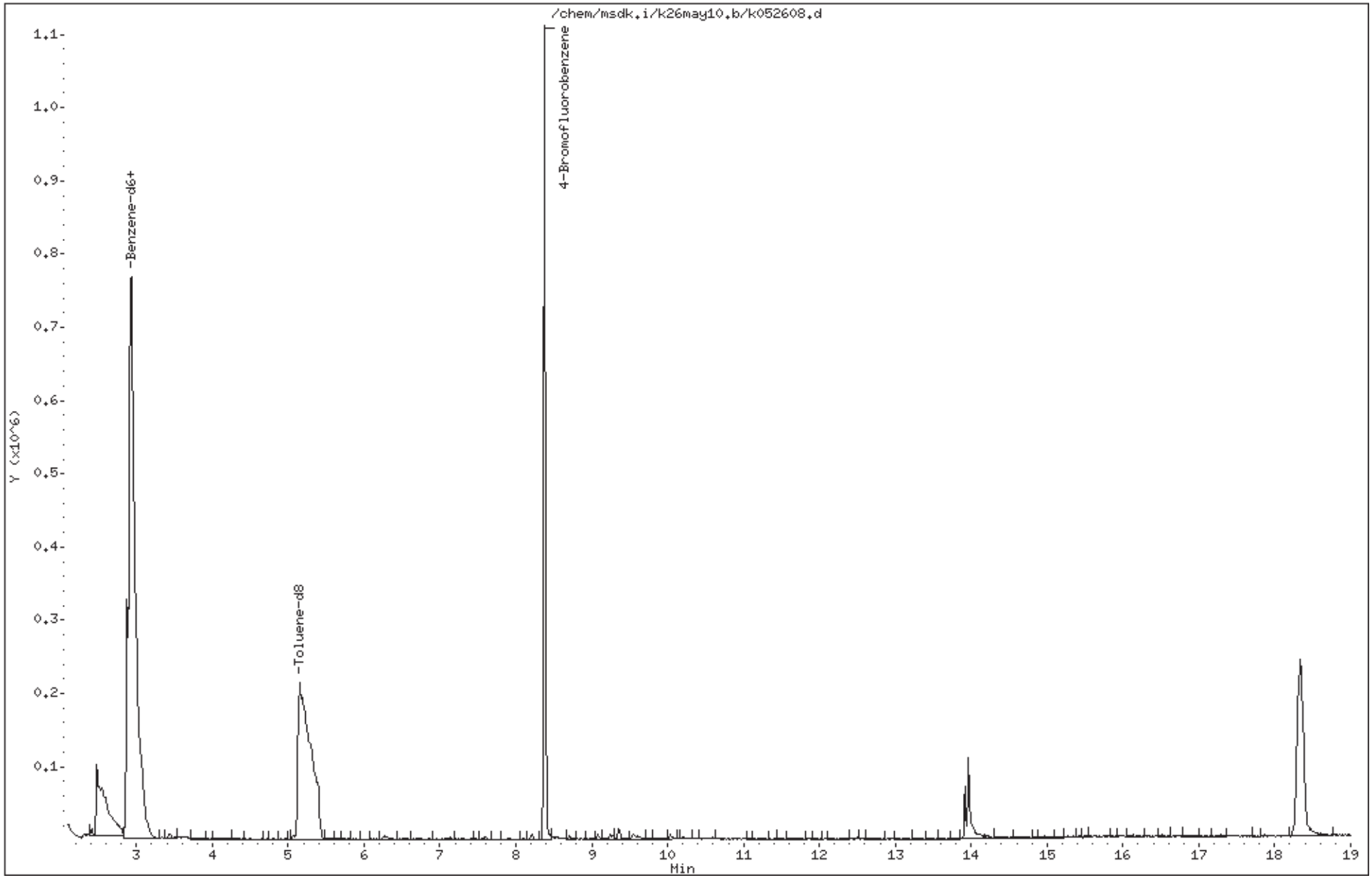
SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.7	104.30	70-130

Data File: /chem/msdk.i/k26may10.b/k052608.d
Date : 26-MAY-2010 12:05
Client ID:
Sample Info: ;1005453C-32A;

Column phase: DB-5.625

Instrument: msdk.i

Operator: LZ
Column diameter: 0.25



Data File: /chem/msdk.i/k26may10.b/k052608.d

Date : 26-MAY-2010 12:05

Client ID:

Instrument: msdk.i

Sample Info: ;1005453C-32A;

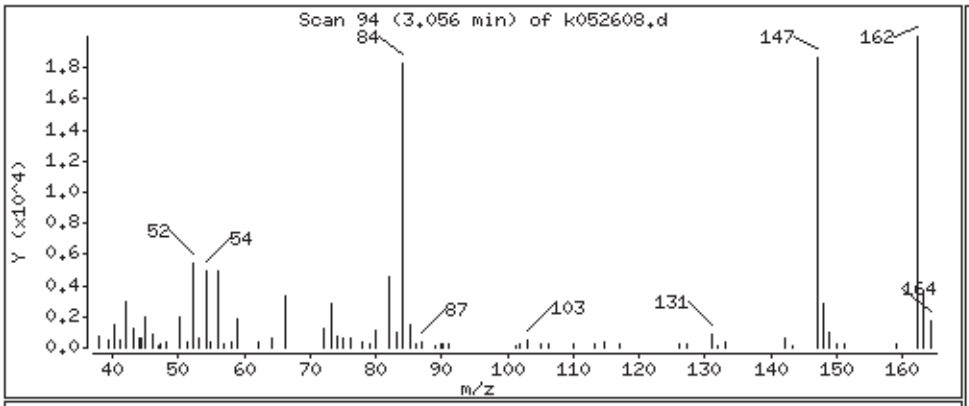
Operator: LZ

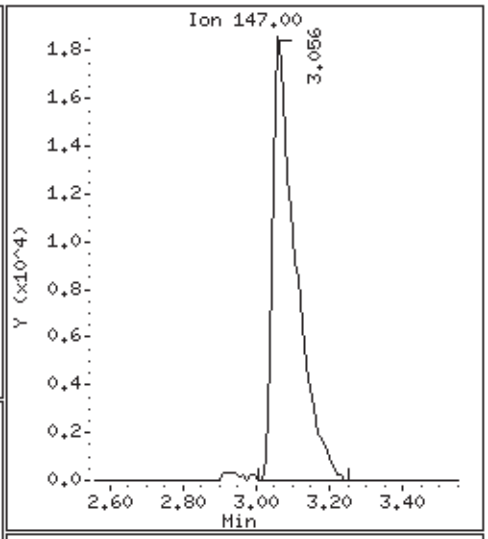
Column phase: DB-5.625

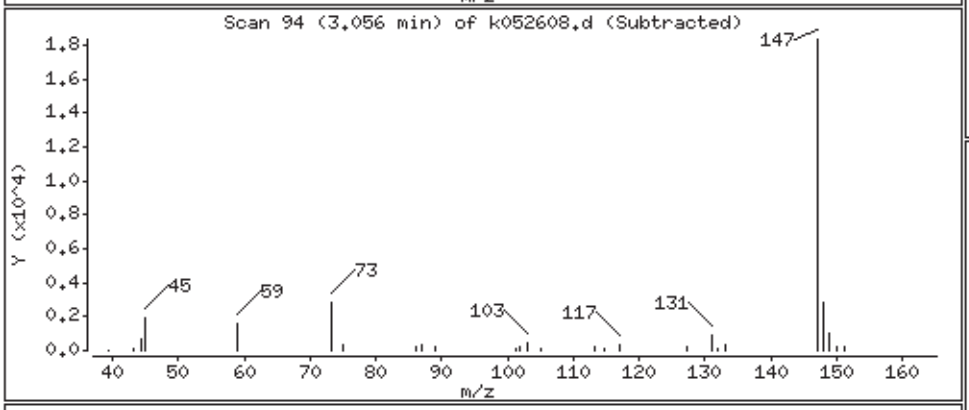
Column diameter: 0.25

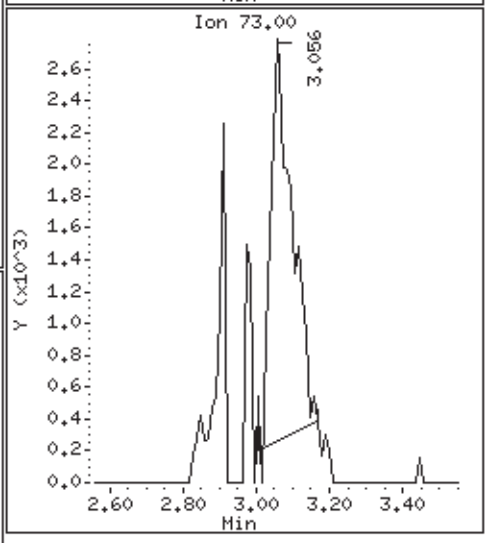
5 hexamethyldisiloxane(mm)

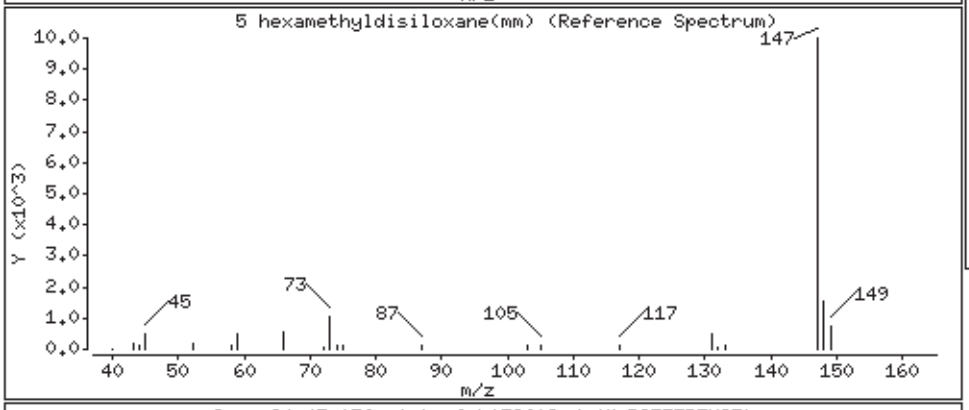
Concentration: 35.4 ug

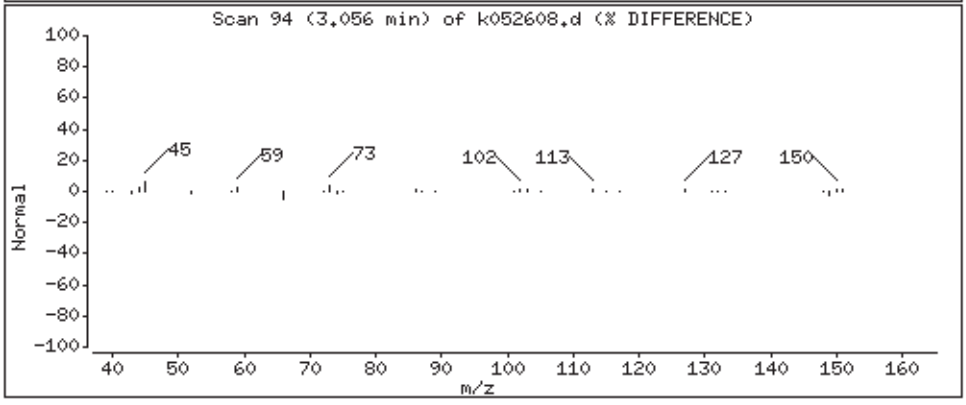












Data File: /chem/msdk.i/k26may10.b/k052610.d

Date : 26-MAY-2010 12:52

Client ID:

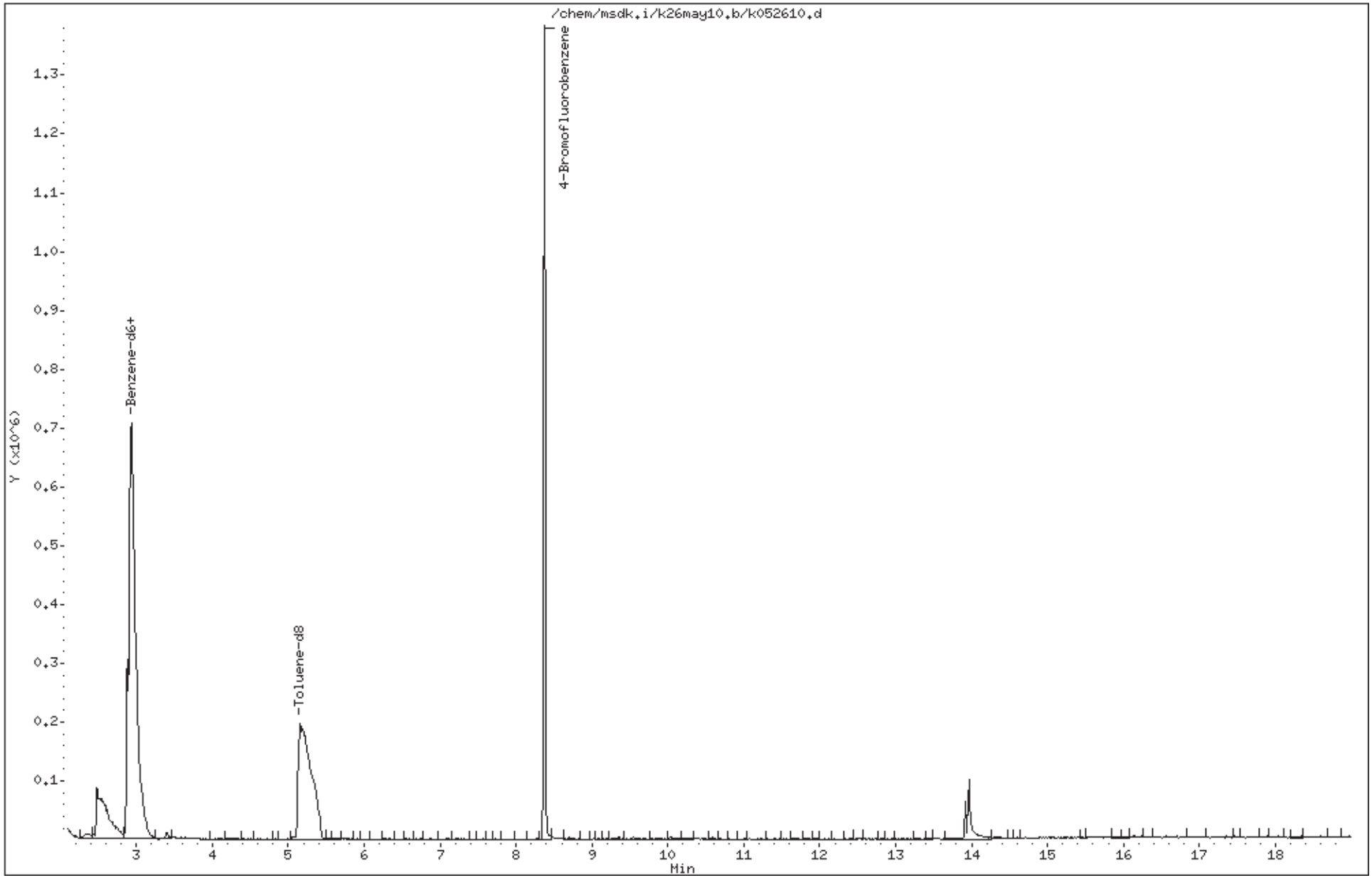
Instrument: msdk.i

Sample Info: ;1005453C-32B;

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k26may10.b/k052610.d

Date : 26-MAY-2010 12:52

Client ID:

Instrument: msdk.i

Sample Info: ;1005453C-32B;

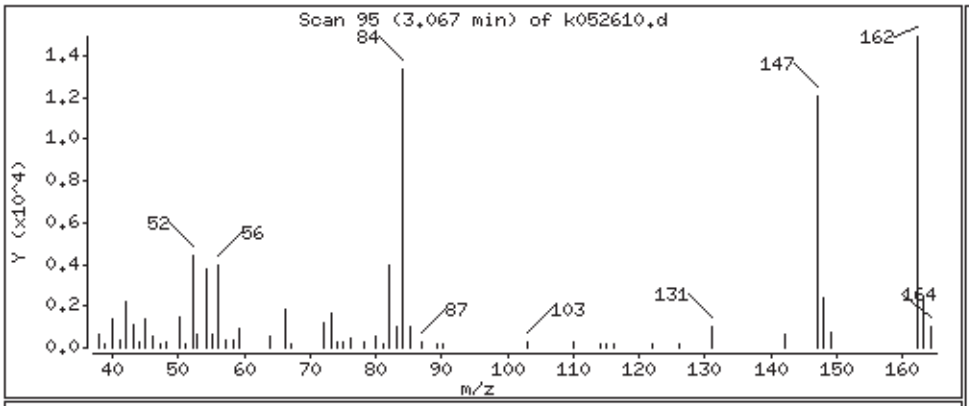
Operator: LZ

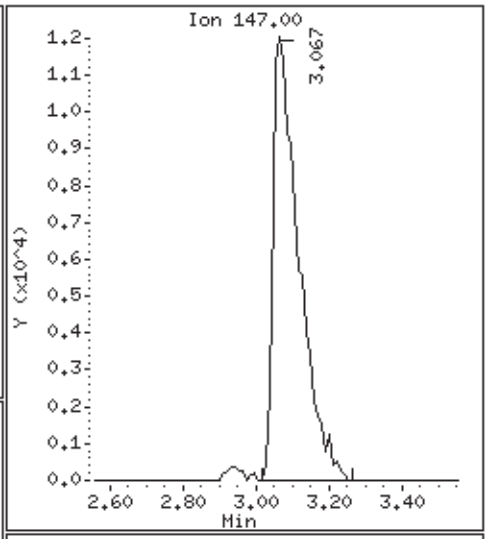
Column phase: DB-5.625

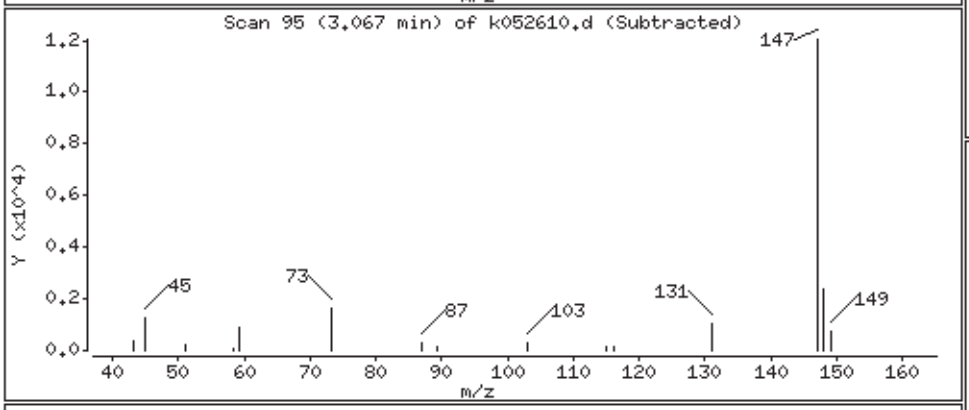
Column diameter: 0.25

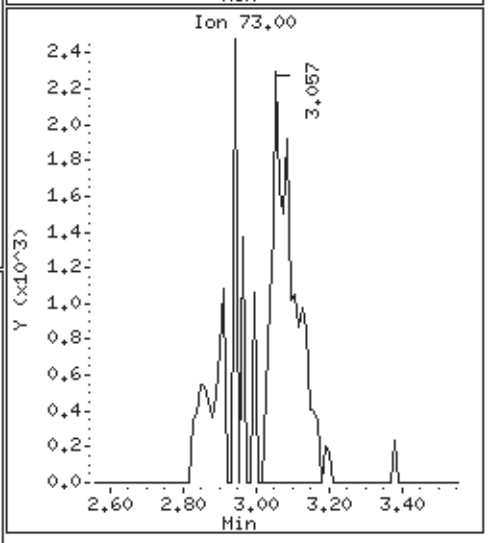
5 hexamethyldisiloxane(mm)

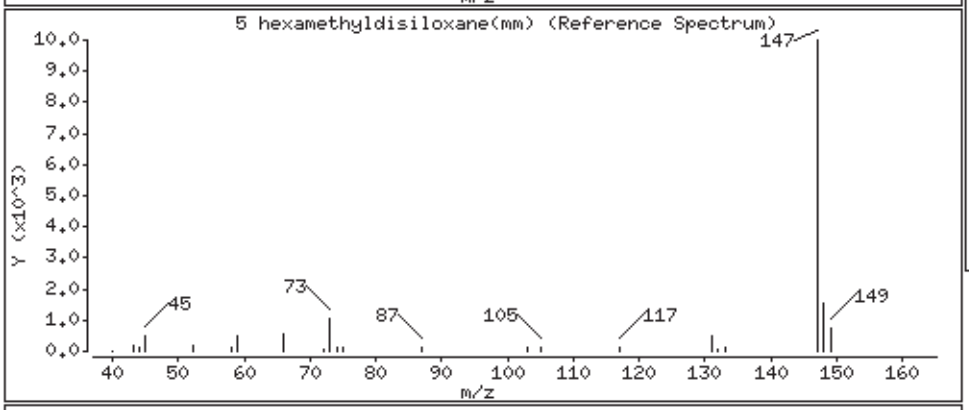
Concentration: 28.9 ug

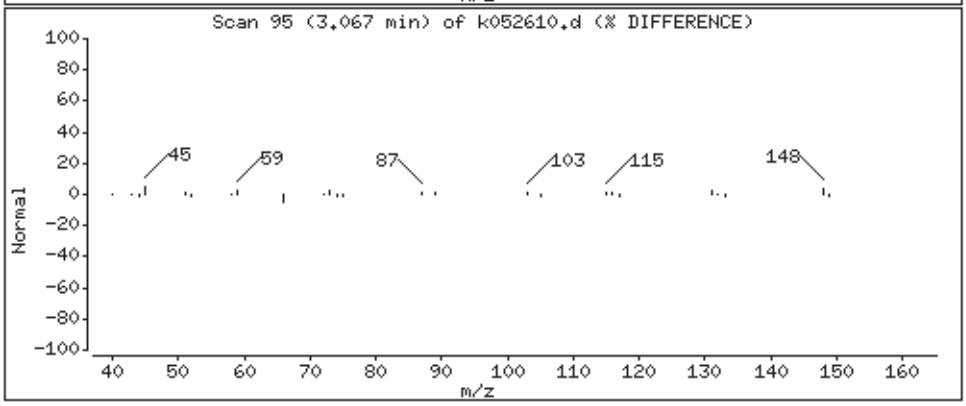












QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005453C-33A

SILOXANES - GC/MS

File Name:	**k052606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/10 11:14 AM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	1.0	Not Detected	45	Not Detected
Decamethylcylopentasiloxane (D5)	1.0	Not Detected	45	Not Detected
Dodecamethylcyclohexasiloxane (D6)	2.0	Not Detected	91	Not Detected
Hexamethyldisiloxane	1.0	Not Detected	45	Not Detected
Octamethyltrisiloxane	1.0	Not Detected	45	Not Detected

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	105	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k26may10.b/k052606.d
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Inj Date : 26-MAY-2010 11:14
Operator : LZ Inst ID: msdk.i
Smp Info : ;MeOH Blank;Lab Blank
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.880	2.870	(1.000)	800081	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.932	2.932	(1.018)	1394232	41.8765	41.9
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.177	5.157	(1.000)	759506	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.385	8.385	(1.000)	256746	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052606.d
Lab Smp Id: MeOH Blank
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Client Smp ID: Lab Blank
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	800081	-20.58
6 Toluene-d8	948941	474470	1897882	759506	-19.96
8 4-Bromofluorobenz	315762	157881	631524	256746	-18.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.36
6 Toluene-d8	5.16	4.66	5.66	5.18	0.40
8 4-Bromofluorobenz	8.39	7.89	8.89	8.39	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

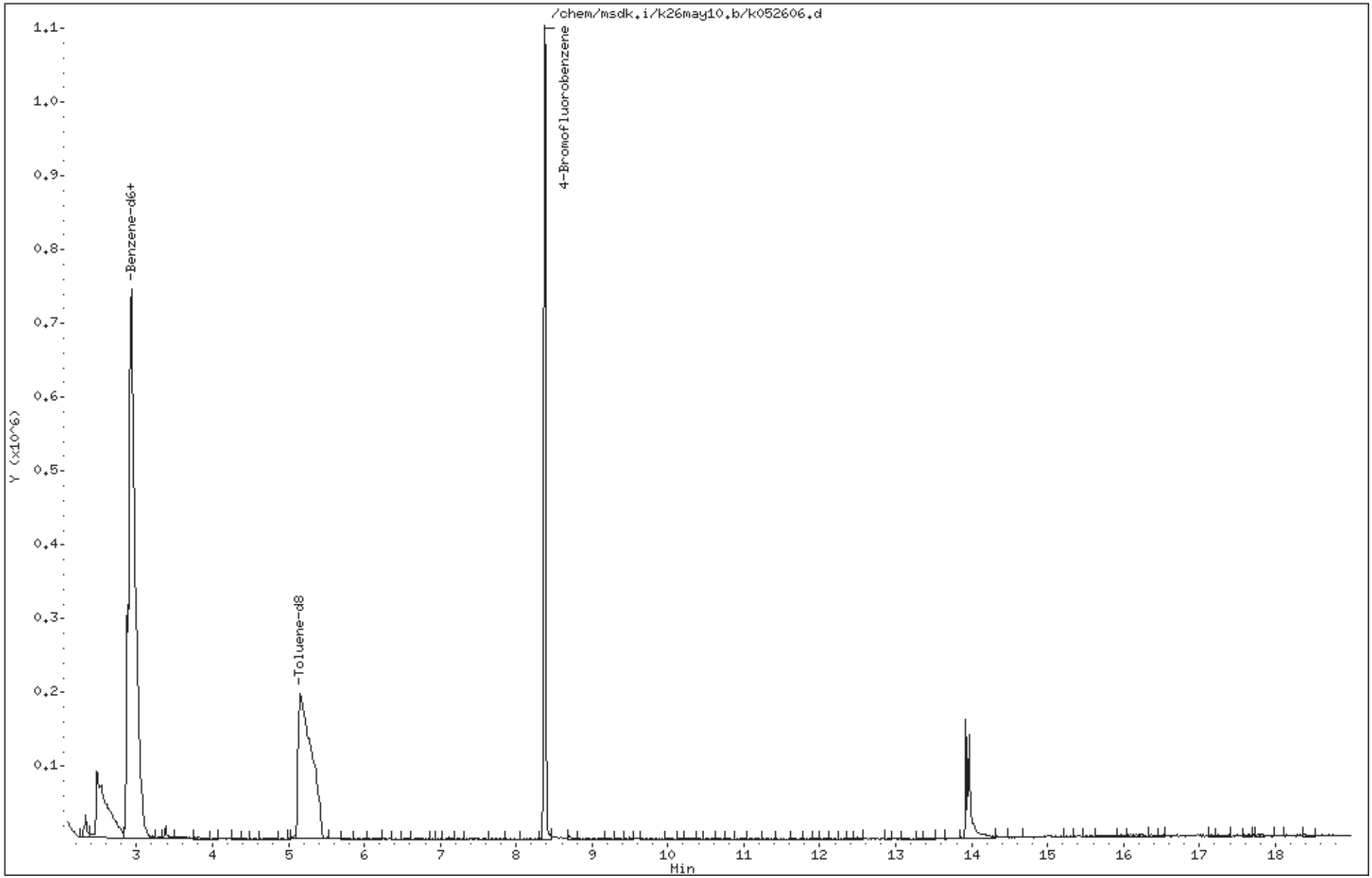
SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.9	104.69	70-130

Data File: /chem/msdk.i/k26may10.b/k052606.d
Date : 26-MAY-2010 11:14
Client ID: Lab Blank
Sample Info: ;MeOH Blank;Lab Blank

Column phase: DB-5.625

Instrument: msdk.i

Operator: LZ
Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005453C-33B

SILOXANES - GC/MS

File Name:	**k052810**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 12:47 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	1.0	Not Detected	45	Not Detected
Decamethylcylopentasiloxane (D5)	1.0	Not Detected	45	Not Detected
Dodecamethylcyclohexasiloxane (D6)	2.0	Not Detected	91	Not Detected
Hexamethyldisiloxane	1.0	Not Detected	45	Not Detected
Octamethyltrisiloxane	1.0	Not Detected	45	Not Detected

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	103	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052810.d
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Inj Date : 28-MAY-2010 12:47
Operator : LZ Inst ID: msdk.i
Smp Info : ;MeOH Blank;Lab Blank
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.869	2.872	(1.000)	832228	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.921	2.924	(1.018)	1428558	41.2501	41.2
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.146	5.148	(1.000)	761446	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.385	8.377	(1.000)	246869	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 28-May-2010 13:14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052810.d
Lab Smp Id: MeOH Blank
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Client Smp ID: Lab Blank
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	832228	1.49
6 Toluene-d8	797846	398923	1595692	761446	-4.56
8 4-Bromofluorobenz	279522	139761	559044	246869	-11.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.09
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.05
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 28-May-2010 13:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.2	103.13	70-130

Data File: /chem/msdk.i/k28may10.b/k052810.d

Page 1

Date : 28-MAY-2010 12:47

Client ID: Lab Blank

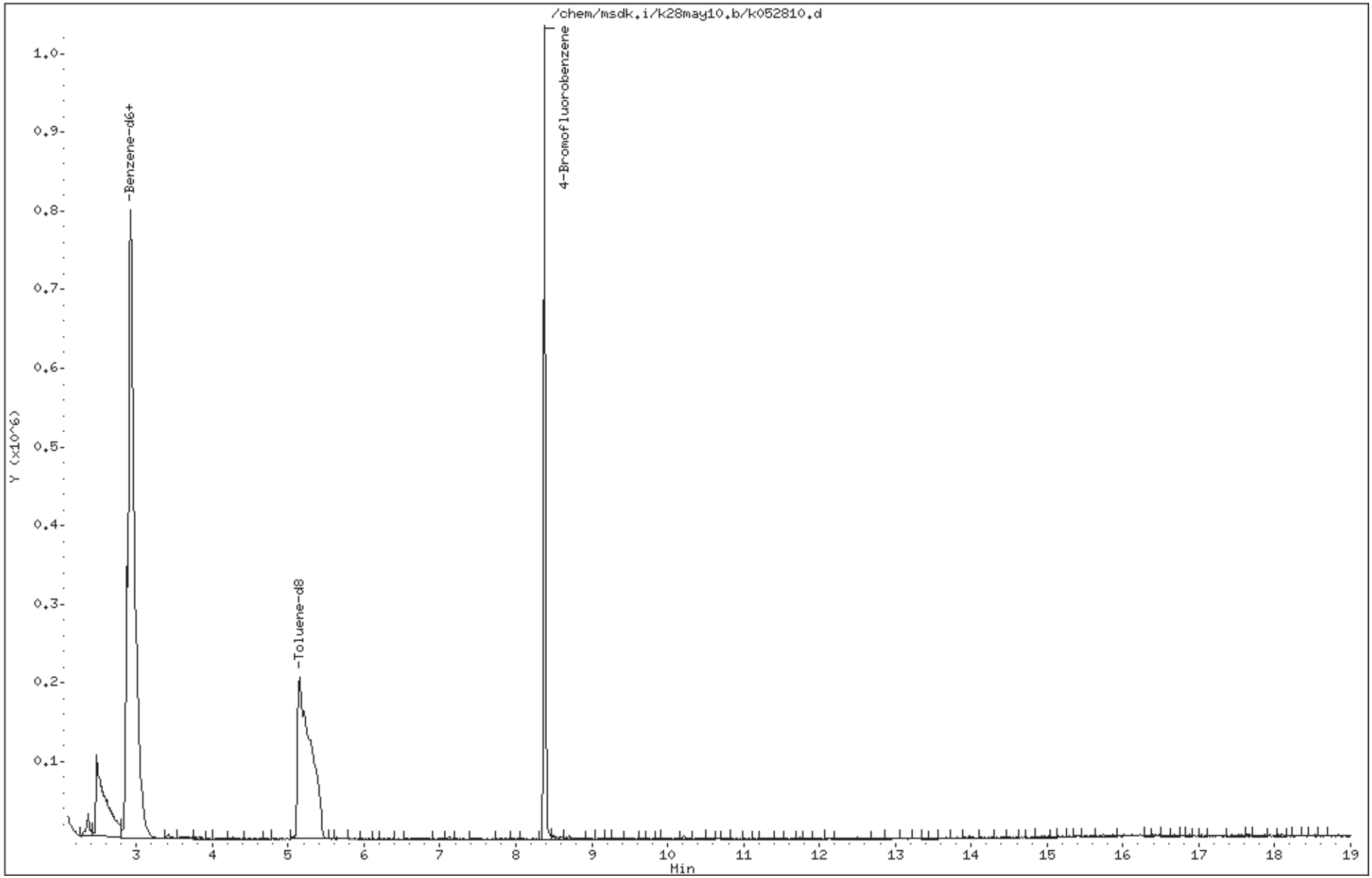
Instrument: msdk.i

Sample Info: ;MeOH Blank;Lab Blank

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005453C-33C

SILOXANES - GC/MS

File Name:	**k052830**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 08:49 PM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	1.0	Not Detected	45	Not Detected
Decamethylcylopentasiloxane (D5)	1.0	Not Detected	45	Not Detected
Dodecamethylcyclohexasiloxane (D6)	2.0	Not Detected	91	Not Detected
Hexamethyldisiloxane	1.0	Not Detected	45	Not Detected
Octamethyltrisiloxane	1.0	Not Detected	45	Not Detected

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	101	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052830.d
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Inj Date : 28-MAY-2010 20:49
Operator : LZ Inst ID: msdk.i
Smp Info : ;MeOH Blank;Lab Blank
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.873	2.881	(1.000)	803578	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.925	2.933	(1.018)	1348187	40.3174	40.3
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.139	5.158	(1.000)	724345	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.378	8.376	(1.000)	233923	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 28-May-2010 21:14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052830.d
Lab Smp Id: MeOH Blank
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Client Smp ID: Lab Blank
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	803578	4.69
6 Toluene-d8	708584	354292	1417168	724345	2.22
8 4-Bromofluorobenz	250041	125020	500082	233923	-6.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.87	-0.30
6 Toluene-d8	5.16	4.66	5.66	5.14	-0.37
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MeOH Blank Client Smp ID: Lab Blank
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	40.3	100.79	70-130

Data File: /chem/msdk.i/k28may10a.b/k052830.d

Date : 28-MAY-2010 20:49

Client ID: Lab Blank

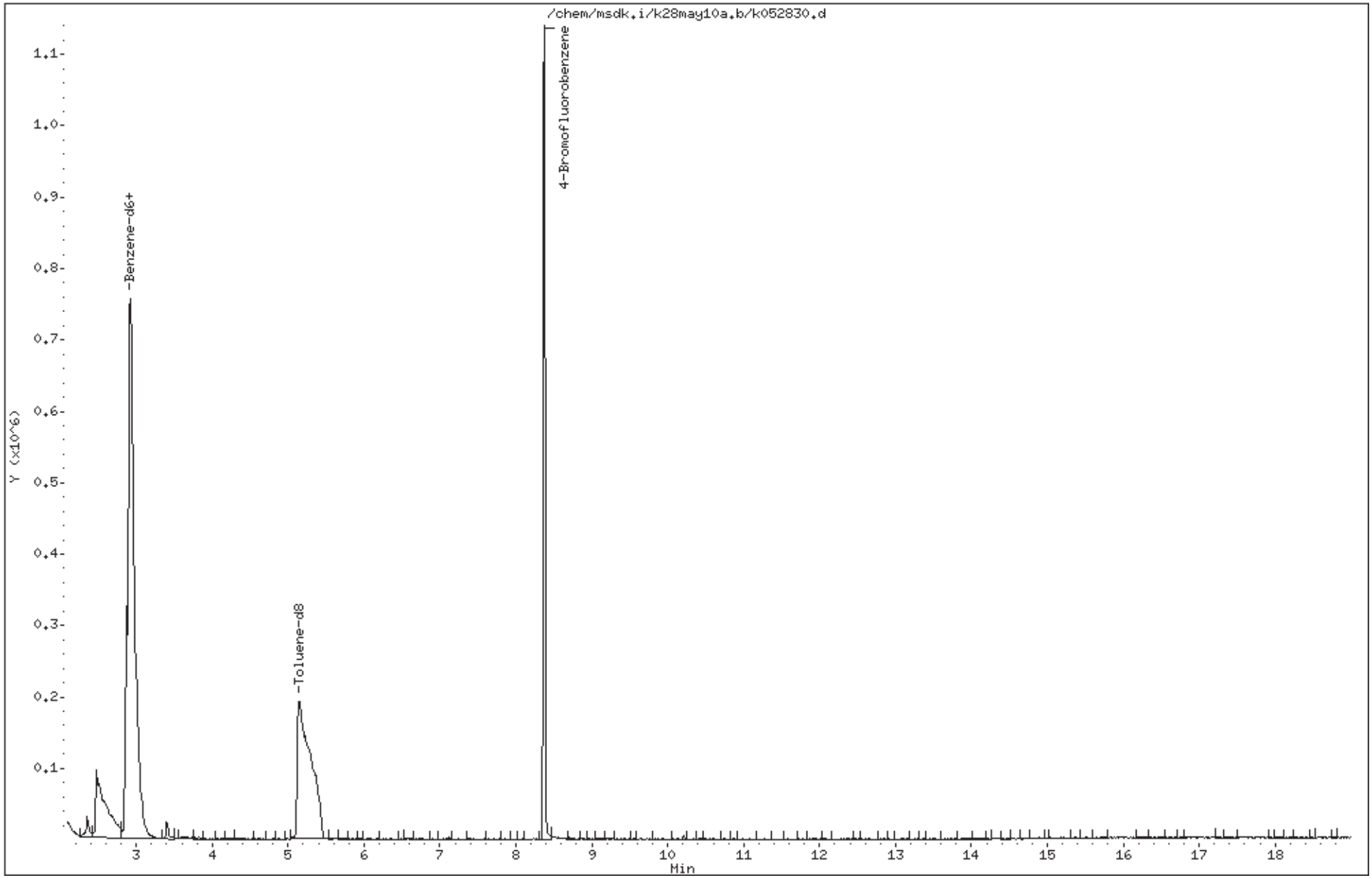
Instrument: msdk.i

Sample Info: ;MeOH Blank;Lab Blank

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005453C-33D

SILOXANES - GC/MS

File Name:	**k052007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/10 11:35 AM**	

Compound	Rpt. Limit (ug)	Amount (ug)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Octamethylcyclotetrasiloxane (D4)	1.0	Not Detected	45	Not Detected
Decamethylcylopentasiloxane (D5)	1.0	Not Detected	45	Not Detected
Dodecamethylcyclohexasiloxane (D6)	2.0	Not Detected	91	Not Detected
Hexamethyldisiloxane	1.0	Not Detected	45	Not Detected
Octamethyltrisiloxane	1.0	Not Detected	45	Not Detected

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	112	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k20may10.b/k052007.d
Lab Smp Id: MeOH Blank:Lab Blan
Inj Date : 20-MAY-2010 11:35
Operator : LZ Inst ID: msdk.i
Smp Info : ;MeOH Blank:Lab Blank
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.869	2.873	(1.000)	1068554	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.931	2.924	(1.022)	1998520	44.9451	44.9
5	hexamethyldisiloxane(mm)	147	Compound Not Detected.					
* 6	Toluene-d8	98	5.156	5.159	(1.000)	1045083	40.0000	
7	octamethyltrisiloxane(mdm)	221	Compound Not Detected.					
* 8	4-Bromofluorobenzene	174	8.385	8.388	(1.000)	363701	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	Compound Not Detected.					
10	deca-m-cyclopentasiloxane(d5)	267	Compound Not Detected.					
165	Dodeca-mcyclohexasiloxane(d6)	341	Compound Not Detected.					

Report Date: 20-May-2010 11:59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052007.d
Lab Smp Id: MeOH Blank:Lab Blan
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1068554	-9.05
6 Toluene-d8	1158115	579058	2316230	1045083	-9.76
8 4-Bromofluorobenz	415107	207554	830214	363701	-12.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.12
6 Toluene-d8	5.16	4.66	5.66	5.16	-0.07
8 4-Bromofluorobenz	8.39	7.89	8.89	8.38	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2010 11:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k20may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: MeOH Blank:Lab Blan
Level: MED Operator: LZ
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	44.9	112.36	70-130

Data File: /var/chem/msdk.i/k20may10.b/k052007.d

Page 1

Date : 20-MAY-2010 11:35

Client ID:

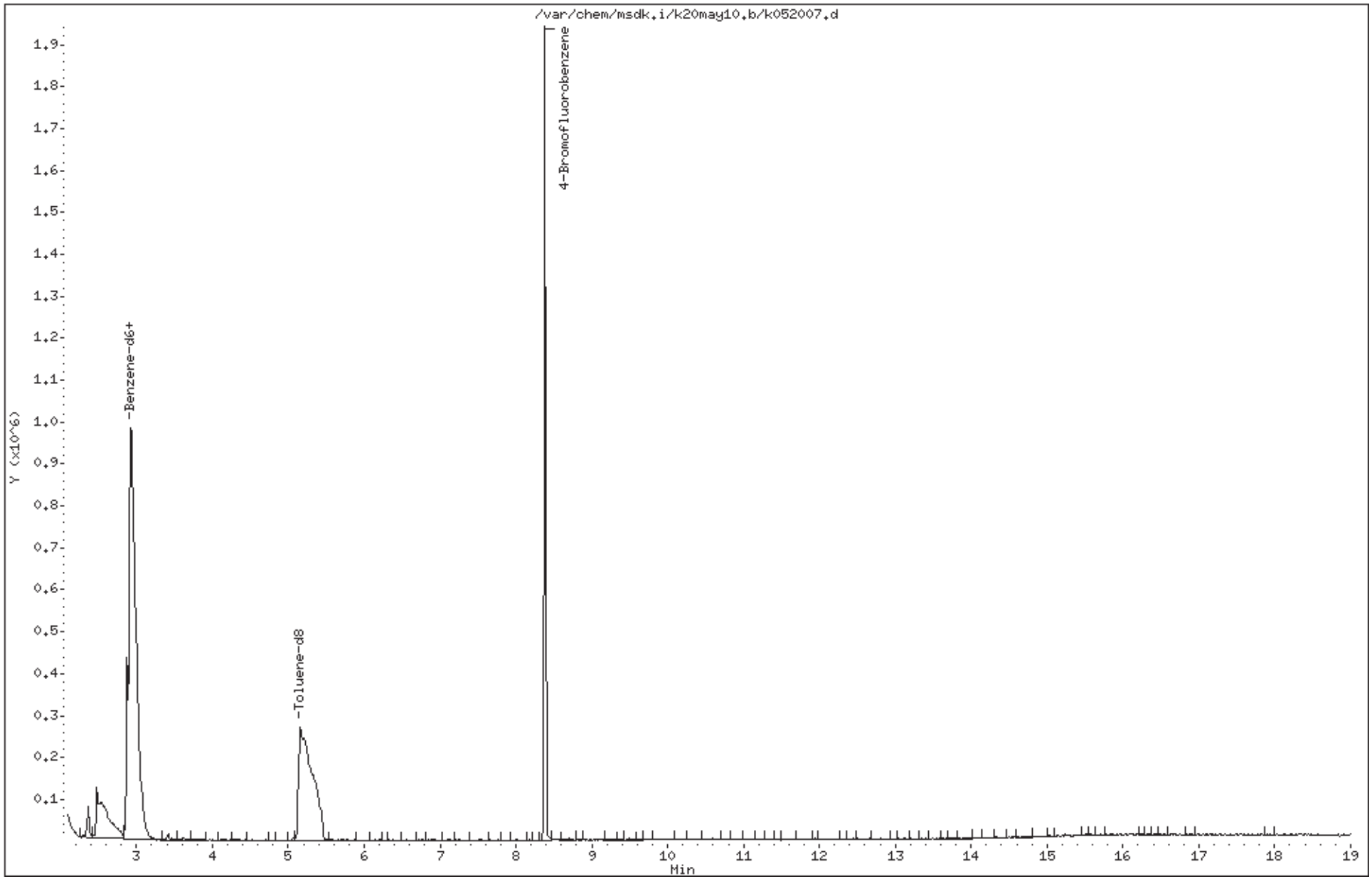
Instrument: msdk.i

Sample Info: ;MeOH Blank;Lab Blank

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



LEVEL-IV VALIDATABLE

SILOXANES - GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1005453C

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Hexamethyl disiloxane -d18	#		#		#		#	TOTAL OUT
01	GV-1	104								0
02	GV-1 Lab Duplicate	101								0
03	GV-6	96								0
04	GV-7	100								0
05	GV-11	102								0
06	AOS-1	101								0
07	GV-9	102								0
08	GV-10	104								0
09	GV-12	98								0
10	ALF-1	94								0
11	ALF-2	92								0
12	ALF-3	96								0
13	ALF-4	92								0
14	ALF-5	104								0
15	AOS-2	105								0
16	AOS-3	105								0
17	GV-13	105								0
18	Lab Blank	105								0
19	Lab Blank	103								0
20	Lab Blank	101								0
21	Lab Blank	112								0
22	LCS	106								0
23	LCS	108								0
24	LCS	103								0

Surrogate Recovery Limits

Hexamethyl disiloxane -d18 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

SILOXANES - GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1005453C

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								TOTAL OUT
			#		#		#		#	
01	LCS	113								0
02										0
03										0
04										0
05										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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Siloxanes - GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 1005453C
Lab File ID: k052005.d
Date Analyzed: 05/20/2010
Instrument ID: msdk.i
Time Analyzed: 10:48 AM

		Benzene-d6 Area	#	RT	#	Toluene-d8 Area	#	RT	#	4-Bromofluorobenzene Area	#	RT	#
	24-HOUR STD	1174851		2.87		1158115		5.16		415107		8.39	
	UPPER LIMIT	1644791		03.20		1621361		05.49		581150		08.72	
	LOWER LIMIT	704911		02.54		694869		04.83		249064		08.06	
	CLIENT SAMPLE NO												
01	ALF-5	1203871		2.87		1138168		5.16		374138		8.37	
02	AOS-2	1187008		2.87		1106401		5.16		353813		8.37	
03	Lab Blank	1068554		2.87		1045083		5.16		363701		8.38	
04	LCS	1007427		2.87		983866		5.16		372497		8.39	
05													
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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

LEVEL-IV VALIDATABLE

Siloxanes - GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 1005453C
Lab File ID: k052603.d
Date Analyzed: 05/26/2010
Instrument ID: msdk.i
Time Analyzed: 09:57 AM

		Benzene-d6 Area	#	RT	#	Toluene-d8 Area	#	RT	#	4-Bromofluorobenzene Area	#	RT	#
	24-HOUR STD	1007421		2.87		948941		5.16		315762		8.39	
	UPPER LIMIT	1410389		03.20		1328517		05.49		442067		08.72	
	LOWER LIMIT	604453		02.54		569365		04.83		189457		08.06	
	CLIENT SAMPLE NO												
01	AOS-3	872270		2.87		812581		5.15		266402		8.38	
02	GV-13	807687		2.87		787286		5.15		270251		8.38	
03	Lab Blank	800081		2.88		759506		5.18		256746		8.39	
04	LCS	1131834		2.87		1114634		5.15		365093		8.38	
05													
06													
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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

LEVEL-IV VALIDATABLE

Siloxanes - GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1005453C

Lab File ID: k052808.d | Date Analyzed: 05/28/2010

Instrument ID: msdk.i | Time Analyzed: 11:58 AM

		Benzene-d6 Area	#	RT	#	Toluene-d8 Area	#	RT	#	4-Bromofluorobenzene Area	#	RT	#
	24-HOUR STD	819981		2.87		797846		5.15		279522		8.38	
	UPPER LIMIT	1147973		03.20		1116984		05.48		391331		08.71	
	LOWER LIMIT	491989		02.54		478708		04.82		167713		08.05	
	CLIENT SAMPLE NO												
01	GV-1	836494		2.86		766155		5.14		248409		8.38	
02	GV-1 Lab Duplicate	741586		2.87		709212		5.14		242232		8.37	
03	GV-7	700653		2.87		646452		5.15		213195		8.36	
04	GV-11	817216		2.87		750663		5.15		247372		8.37	
05	AOS-1	743792		2.88		672757		5.15		219313		8.36	
06	GV-9	772968		2.87		716232		5.15		237719		8.36	
07	GV-10	723426		2.87		668785		5.15		215256		8.37	
08	Lab Blank	832228		2.87		761446		5.15		246869		8.38	
09	LCS	969586		2.88		941641		5.15		331791		8.37	
10													
11													
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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

LEVEL-IV VALIDATABLE

Siloxanes - GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1005453C

Lab File ID: k052828.d | Date Analyzed: 05/28/2010

Instrument ID: msdk.i | Time Analyzed: 07:59 PM

		Benzene-d6 Area	#	RT	#	Toluene-d8 Area	#	RT	#	4-Bromofluorobenzene Area	#	RT	#
	24-HOUR STD	767574		2.88		708584		5.16		250041		8.38	
	UPPER LIMIT	1074604		03.21		992018		05.49		350057		08.71	
	LOWER LIMIT	460544		02.55		425150		04.83		150025		08.05	
	CLIENT SAMPLE NO												
01	GV-6	711354		2.87		649644		5.15		221044		8.36	
02	GV-12	730085		2.87		666263		5.15		224213		8.38	
03	ALF-1	718825		2.87		650154		5.14		211723		8.35	
04	ALF-2	734002		2.87		657509		5.14		214245		8.35	
05	ALF-3	758632		2.86		682539		5.14		221678		8.37	
06	ALF-4	765869		2.86		669364		5.14		220425		8.36	
07	Lab Blank	803578		2.87		724345		5.14		233923		8.38	
08	LCS	949186		2.88		891976		5.16		305819		8.37	
09													
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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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: k052813.d & k052811.d

Lab Sample ID: 17AB & 17ABB

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 5/28/10 & 5/28/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
541-02-6	Decamethylcylopentasiloxane (D5)	ND	U	ND	U	0	
540-97-6	Dodecamethylcyclohexasiloxane (D6)	ND	U	ND	U	0	
107-46-0	Hexamethyldisiloxane	ND	U	ND	U	0	
556-67-2	Octamethylcyclotetrasiloxane (D4)	ND	U	ND	U	0	
107-51-7	Octamethyltrisiloxane	ND	U	ND	U	0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2010 16:55
End Cal Date : 23-MAR-2010 19:43
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Cal Date : 24-Mar-2010 10:06 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/msdk.i/k23mar10.b/k032308.d
Level 2: /var/chem/msdk.i/k23mar10.b/k032309.d
Level 3: /var/chem/msdk.i/k23mar10.b/k032310.d
Level 4: /var/chem/msdk.i/k23mar10.b/k032311.d
Level 5: /var/chem/msdk.i/k23mar10.b/k032312.d
Level 6: /var/chem/msdk.i/k23mar10.b/k032313.d
Level 7: /var/chem/msdk.i/k23mar10.b/k032314.d
Level 8: /var/chem/msdk.i/k23mar10.b/k032315.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	120.000 Level 7	160.000 Level 8	___ RRF	% RSD
2 pentamethyldisiloxane	+++++	+++++	+++++	+++++	+++++	+++++			+++++	+++++
5 hexamethyldisiloxane(mm)	1.58458	1.58462	1.57218	1.55755	1.58424	1.49981			1.53938	3.536
	1.48733	1.44476								
7 octamethyltrisiloxane(mdm)	1.00340	1.05245	1.06043	1.00456	0.98356	0.88734			0.95342	10.466
	0.84292	0.79268								
9 octa-m-cyclotetrasiloxane(d4)	3.87474	3.61221	3.70492	3.47554	3.67527	3.11910			3.39686	11.843
	2.95255	2.76052								
10 deca-m-cyclopentasiloxane(d5)	1.16303	1.20176	1.19980	1.14325	1.15407	1.01437			1.09056	10.884
	0.94701	0.90119								
165 Dodeca-mcyclohexasiloxane(d6)	1.40023	1.02744	1.02324	0.96460	0.94451	0.90170			0.99311	18.081
	0.85624	0.82693								
$ 4 Hexamethyldisiloxane-d18	1.67742	1.70467	1.65925	1.67671	1.66548	1.65476			1.66452	1.416
	1.65525	1.62264								

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2010 16:55
End Cal Date : 23-MAR-2010 19:43
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Cal Date : 24-Mar-2010 10:06 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	120.000 Level 7	160.000 Level 8	___ RRF	% RSD
$ 166 Divinyltetramethyldisiloxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Calibration History

Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Start Cal Date: 23-MAR-2010 16:55
End Cal Date : 23-MAR-2010 19:43

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
23-MAR-2010 16:55	silo	/var/chem/msdk.i/k23mar10.b/k032308.d
Cal Level: 2 , Cal Amount: 5.00000		
23-MAR-2010 17:19	silo	/var/chem/msdk.i/k23mar10.b/k032309.d
Cal Level: 3 , Cal Amount: 10.00000		
23-MAR-2010 17:43	silo	/var/chem/msdk.i/k23mar10.b/k032310.d
Cal Level: 4 , Cal Amount: 25.00000		
23-MAR-2010 18:07	silo	/var/chem/msdk.i/k23mar10.b/k032311.d
Cal Level: 5 , Cal Amount: 50.00000		
23-MAR-2010 18:31	silo	/var/chem/msdk.i/k23mar10.b/k032312.d
Cal Level: 6 , Cal Amount: 100.00000		
23-MAR-2010 18:55	silo	/var/chem/msdk.i/k23mar10.b/k032313.d
Cal Level: 7 , Cal Amount: 120.00000		
23-MAR-2010 19:19	silo	/var/chem/msdk.i/k23mar10.b/k032314.d
Cal Level: 8 , Cal Amount: 160.00000		
23-MAR-2010 19:43	silo	/var/chem/msdk.i/k23mar10.b/k032315.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.0		
23-MAR-2010 18:31	silo	/var/chem/msdk.i/k23mar10.b/k032312.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2010 16:55
End Cal Date : 23-MAR-2010 19:43
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Cal Date : 24-Mar-2010 10:03 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/msdk.i/k23mar10.b/k032308.d
Level 2: /var/chem/msdk.i/k23mar10.b/k032309.d
Level 3: /var/chem/msdk.i/k23mar10.b/k032310.d
Level 4: /var/chem/msdk.i/k23mar10.b/k032311.d
Level 5: /var/chem/msdk.i/k23mar10.b/k032312.d
Level 6: /var/chem/msdk.i/k23mar10.b/k032313.d
Level 7: /var/chem/msdk.i/k23mar10.b/k032314.d
Level 8: /var/chem/msdk.i/k23mar10.b/k032315.d

2nd Source: K032316.

Based on 60uL injection

unit ng/mL

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	120.000 Level 7	160.000 Level 8						
2 pentamethyldisiloxane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
5 hexamethyldisiloxane(mm)	1.58458	1.58462	1.57218	1.55755	1.58424	1.49981		
	1.48733	1.44476					1.53938	3.536
7 octamethyltrisiloxane(mdm)	1.00340	1.05245	1.06043	1.00456	0.98356	0.88734		
	0.84292	0.79268					0.95342	10.466
9 octa-m-cyclotetrasiloxane(d4)	✓3.87474	✓3.61221	✓3.70492	✓3.47554	✓3.67527	✓3.11910		
	✓2.95255	✓2.76052	✓				✓3.39686	✓11.843
10 deca-m-cyclopentasiloxane(d5)	1.16303	1.20176	1.19980	1.14325	1.15407	1.01437		
	0.94701	0.90119					1.09056	10.884
165 Dodeca-mcyclohexasiloxane(d6)	1.40023	1.02744	1.02324	0.96460	0.94451	0.90170		
	0.85624	0.82693					0.99311	18.081
$ 4 Hexamethyldisiloxane-d18	1.67742	1.70467	1.65925	1.67671	1.66548	1.65476		
	1.65525	1.62264					1.66452	1.416

3/23/10

3/24/10

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAR-2010 16:55
End Cal Date : 23-MAR-2010 19:43
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Cal Date : 24-Mar-2010 10:03 lzhang
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	120.000 Level 7	160.000 Level 8	___ RRF	% RSD
$ 166 Divinyltetramethyldisiloxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Method: Siloxanes/ TO-13

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.28
68	Less than 2.00% of mass 69	0.11 (0.29) [1]
69	Less than 99.90% of mass 198	36.33
70	Less than 2.00% of mass 69	0.16 (0.45) [1]
127	40.00 – 60.00% of mass 198	42.48
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 30.00% of mass 198	22.49
365	Greater than 1.00% of mass 198	3.05
441	Present, but less than mass 443	13.68
442	40.00 - 100.00% of mass 198	93.08
443	17.00 - 23.00% of mass 442	17.91 (19.24) [2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: K032306

DFTPP Injection Date: 3123110

DFTPP Injection Time 1607

IS 1869-69-1000	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	W3123110
Benzene-d_6:	1471066
Toluene-d_8:	1312511
4-Bromofluorobenzene:	437743

This Tune Check Applies To The Following Samples, Blanks And Standards:

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K032306	1869-64-50 Tune	2	1.00	W	3123110	1607	W	
2	✓	7	MeOH Blank	3				1630		
3	✓	8	1869-39-10	4				1655		Level 1
4	✓	9	-50	5				1719		2
5	✓	10	-10	6				1743		3
6	✓	11	-25	7				1807		4
7	✓	12	1869-20-50	8				1831		5
8	✓	13	1869-39-100	9				1855		6
9	✓	14	-120	10				1919		7
10	✓	15	-160	11				1943		8
11	✓	16	1869-21-50 LCS	12				2007		
12										
13										
14										
15										
16										
17										
18										
19										
20						W 3124110				

Calculation Check: File ID: K032306 Compound: D4 Initials: W

nG On Column = (Area of Compound in Sample / Area of Int. Standard in Sample) X (Conc. Int. Standard / ICAL $RRF_{average}$) = (200620 / 456157) X (40.00 / 3.39686) = 51.7

µG/Sample = (nG On Column X 1000 µL Final Vol. X D.F.) / (1.0 µL Inj. Vol. X 1000 nG/µG) = (51.7) X (1000 / 1000) X (1.00) = 51.7

Reported Result = 51.7

Signed

3123110
Date

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032316.d
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Inj Date : 23-MAR-2010 20:07
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-21-50;LCS
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:06 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.983	2.983	(1.000)	1629413	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.045	3.045	(1.021)	2667288	39.3377	39.3
5	hexamethyldisiloxane(mm)	147	3.190	3.190	(1.069)	3297627	52.5876	52.6
* 6	Toluene-d8	98	5.363	5.332	(1.000)	1452355	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.702	7.702	(1.436)	1897402	54.8105	54.8
* 8	4-Bromofluorobenzene	174	8.457	8.457	(1.000)	456157	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.182	9.181	(1.086)	2001620	51.6714	51.7
10	deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	630721	50.7147	50.7
165	Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	492934	43.5249	43.5

Report Date: 24-Mar-2010 10:06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032316.d
Lab Smp Id: 1869-21-50
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: LCS
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1629413	10.76
6 Toluene-d8	1312511	656256	2625022	1452355	10.65
8 4-Bromofluorobenz	437743	218872	875486	456157	4.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	0.02
6 Toluene-d8	5.33	4.83	5.83	5.36	0.59
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k23mar10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Level: MED Operator: lz
Data Type: MS DATA SampleType: LCS
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	52.6	105.18	70-130
7 octamethyltrisilox	50.0	54.8	109.62	70-130
9 octa-m-cyclotetras	50.0	51.7	103.34	70-130
10 deca-m-cyclopentas	50.0	50.7	101.43	70-130
165 Dodeca-mcyclohexas	50.0	43.5	87.05	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	39.3	98.34	70-130

Data File: /var/chem/msdk.i/k23mar10.b/k032316.d

Page 1

Date : 23-MAR-2010 20:07

Client ID: LCS

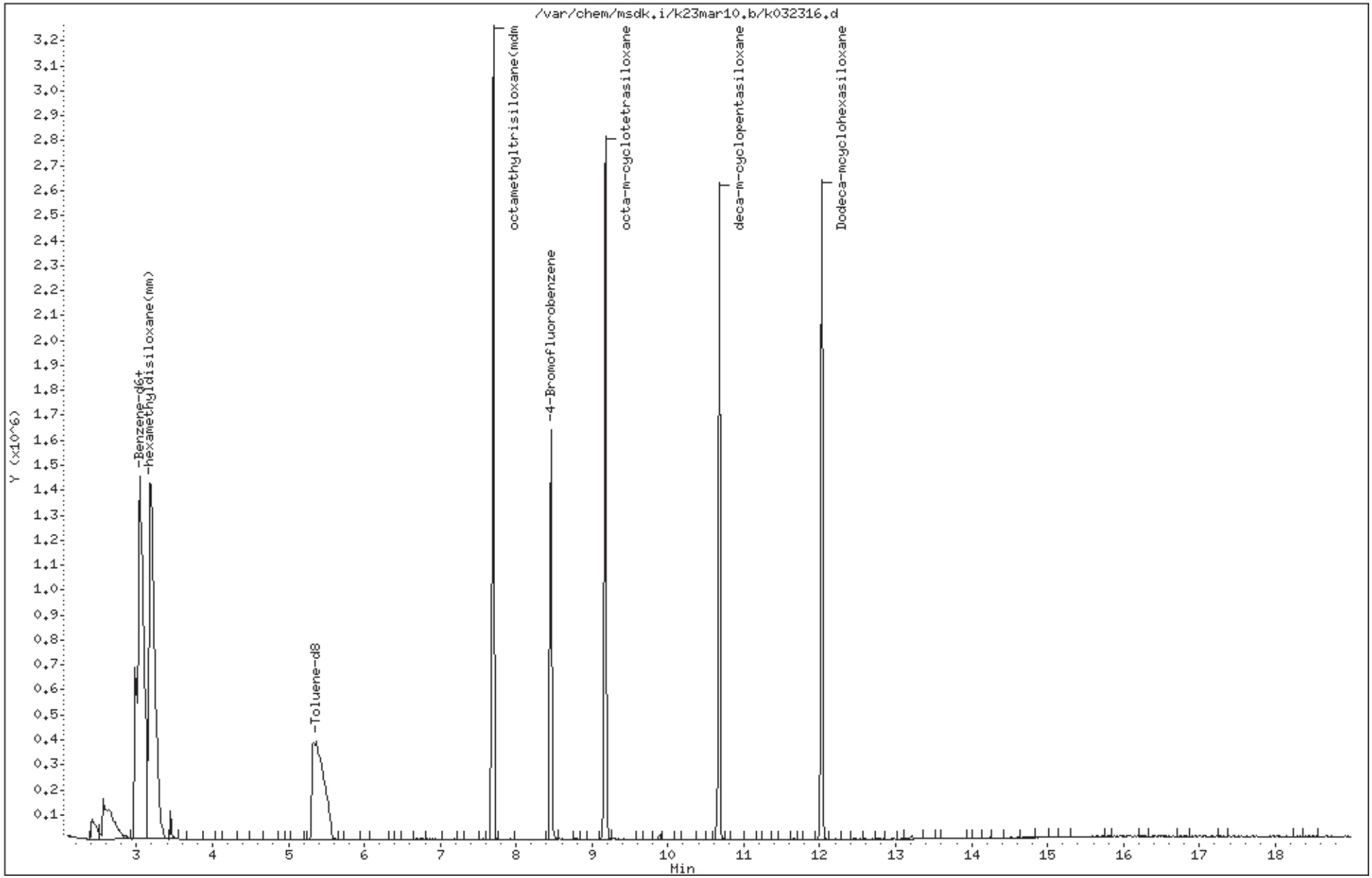
Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

Operator: lz

Column phase: DB-5.625

Column diameter: 0.25



Data File: /var/chem/msdk.i/k23mar10.b/k032316.d

Date : 23-MAR-2010 20:07

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

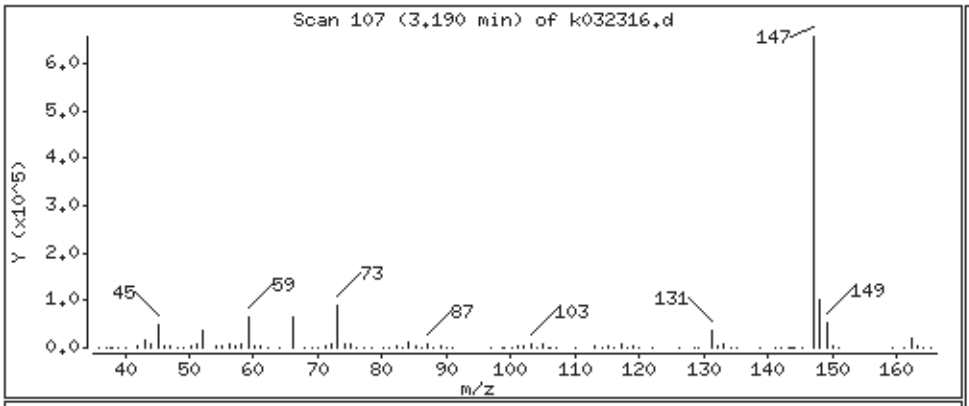
Operator: lz

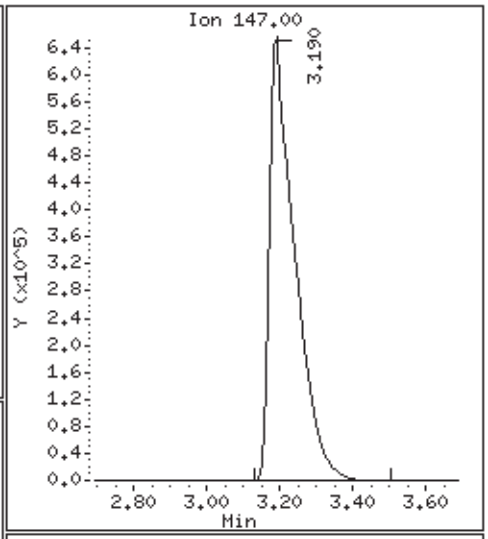
Column phase: DB-5.625

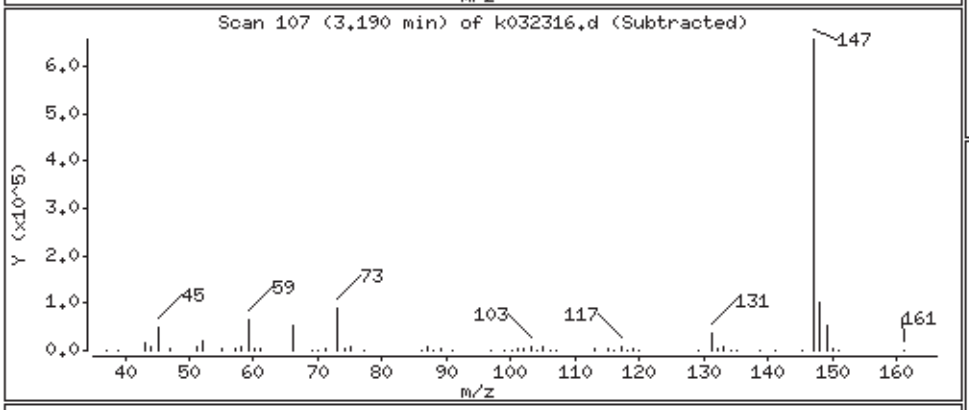
Column diameter: 0.25

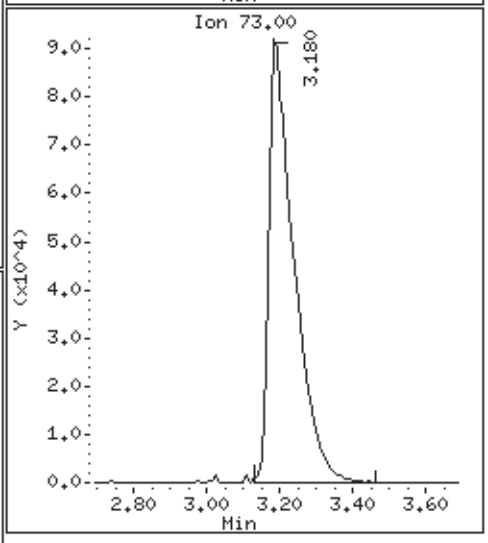
5 hexamethyldisiloxane(mm)

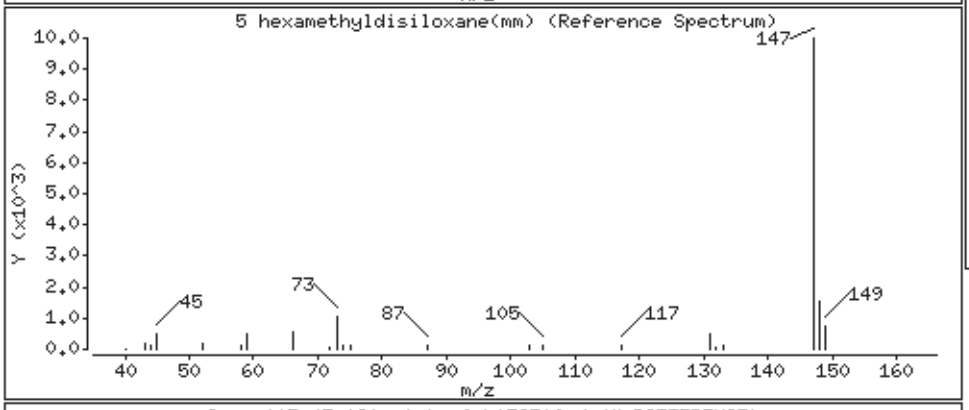
Concentration: 52.6 ug

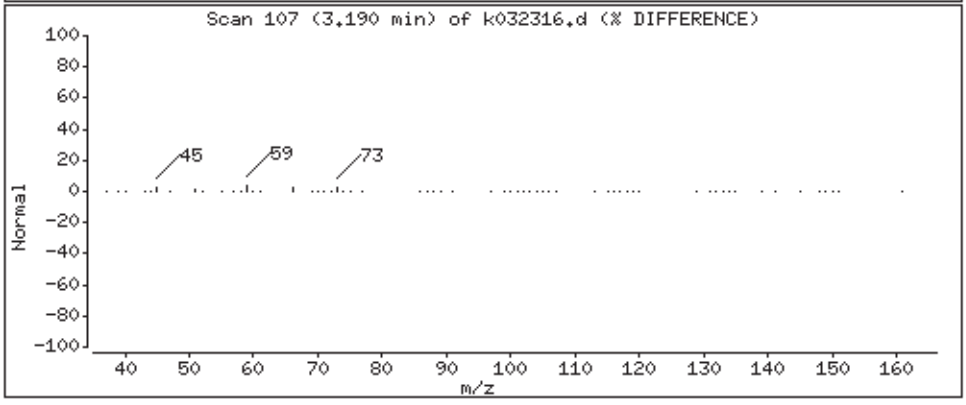












Data File: /var/chem/msdk.i/k23mar10.b/k032316.d

Date : 23-MAR-2010 20:07

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

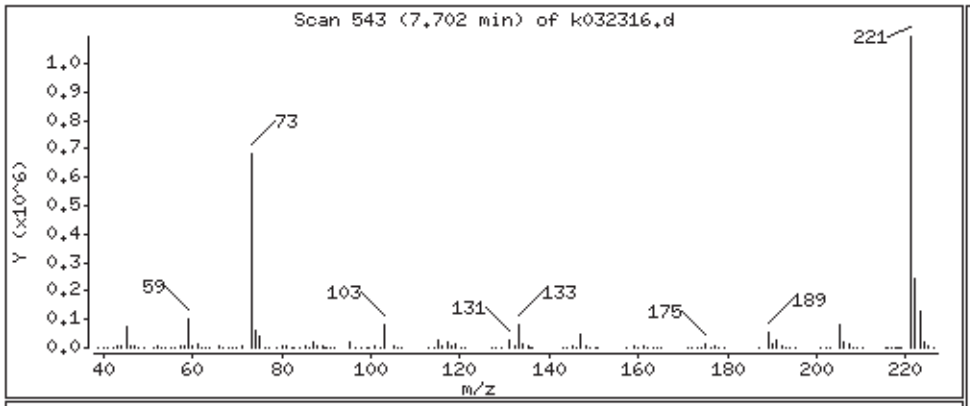
Operator: lz

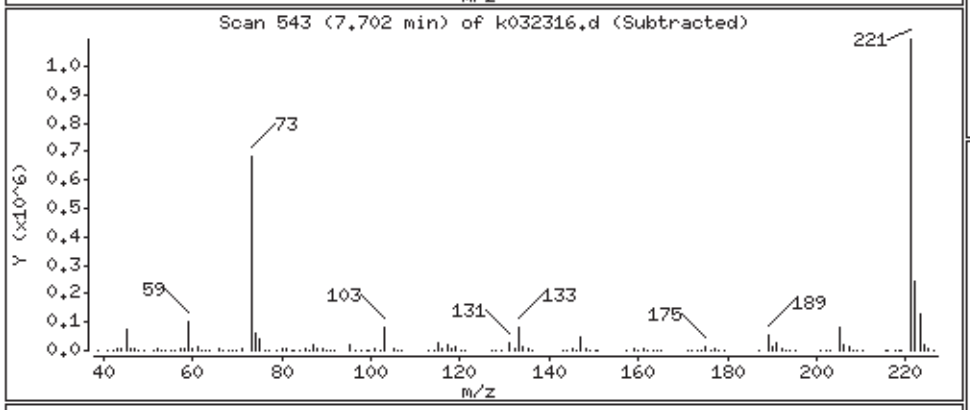
Column phase: DB-5.625

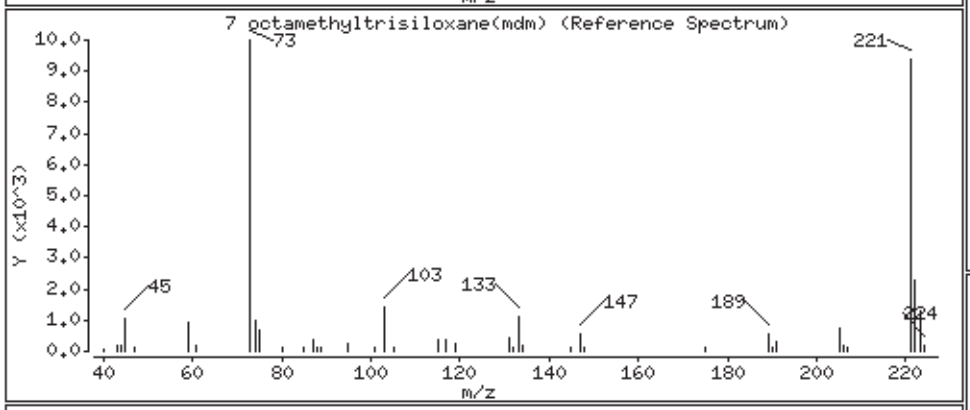
Column diameter: 0.25

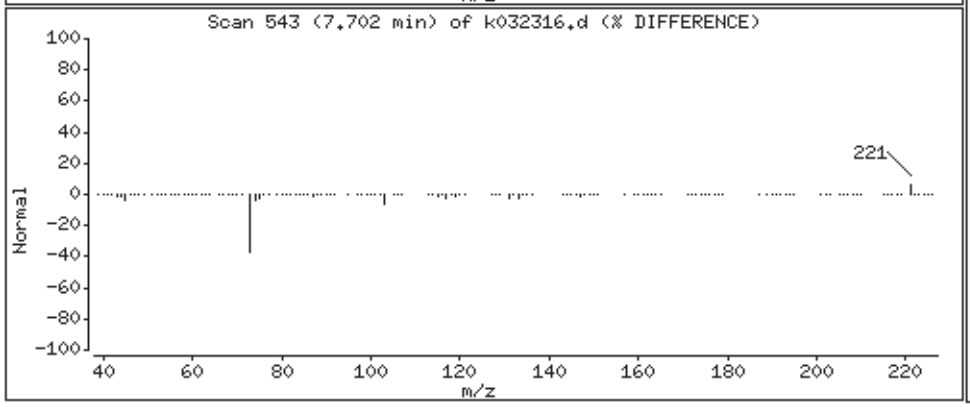
7 octamethyltrisiloxane(mdm)

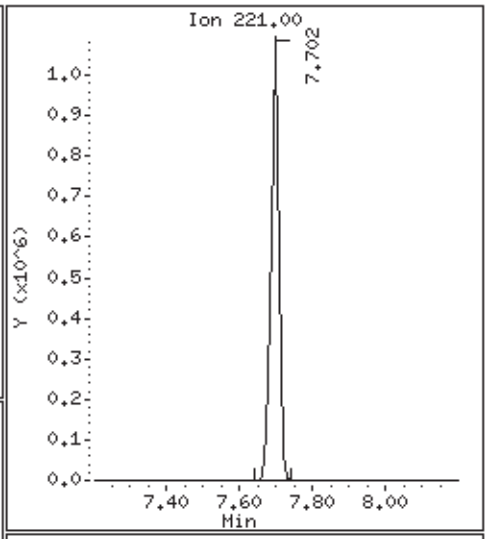
Concentration: 54.8 ug

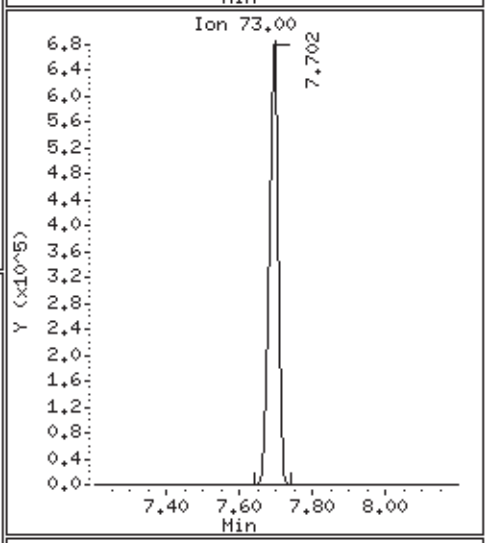


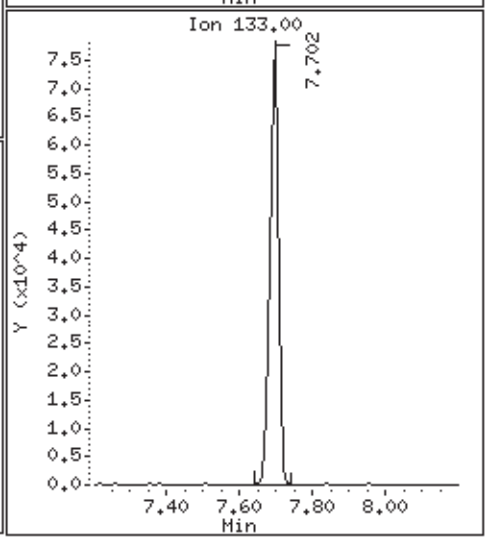












Data File: /var/chem/msdk.i/k23mar10.b/k032316.d

Date : 23-MAR-2010 20:07

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

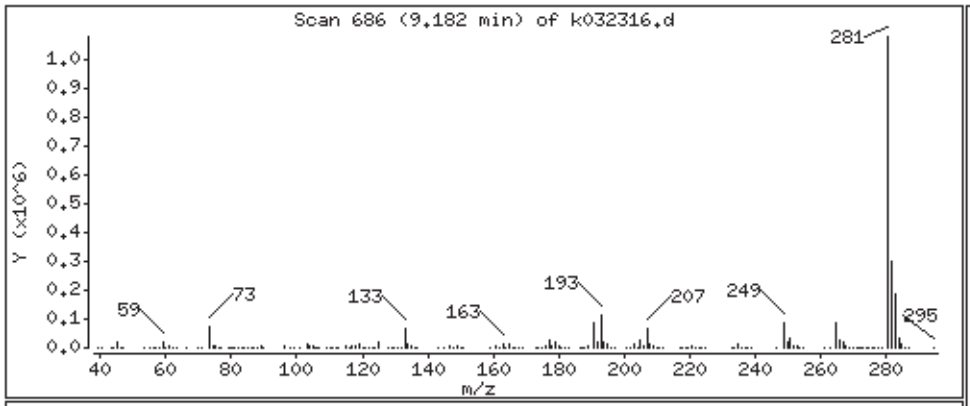
Operator: lz

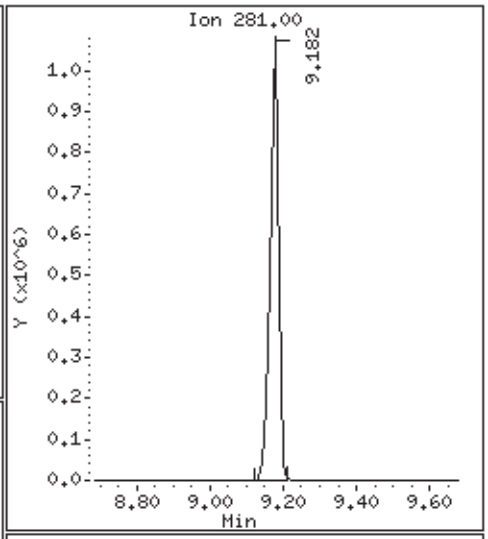
Column phase: DB-5.625

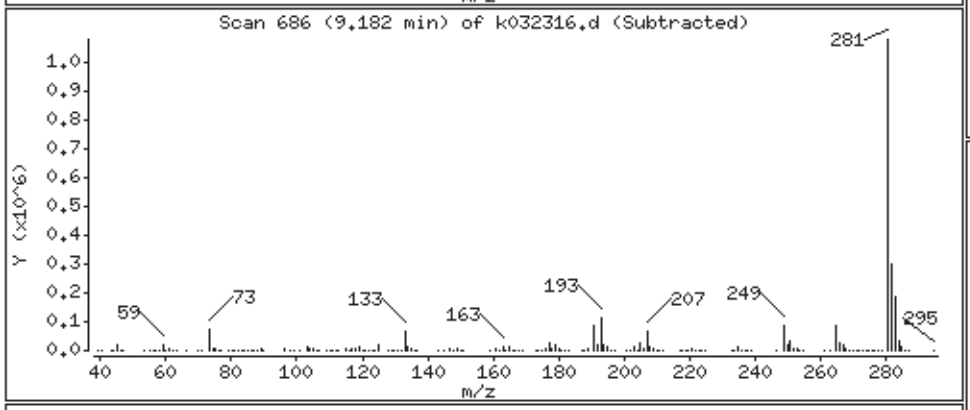
Column diameter: 0.25

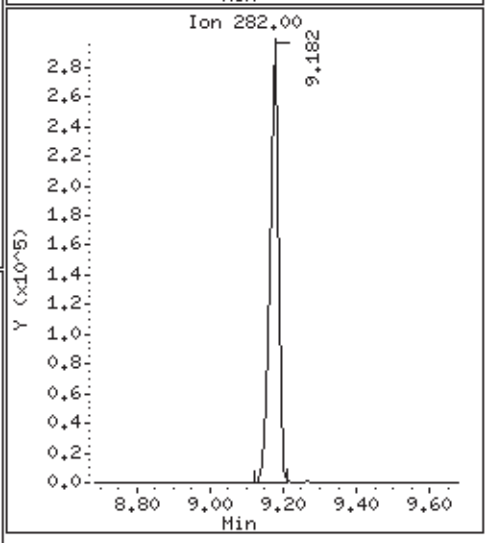
9 octa-m-cyclotetrasiloxane(d4)

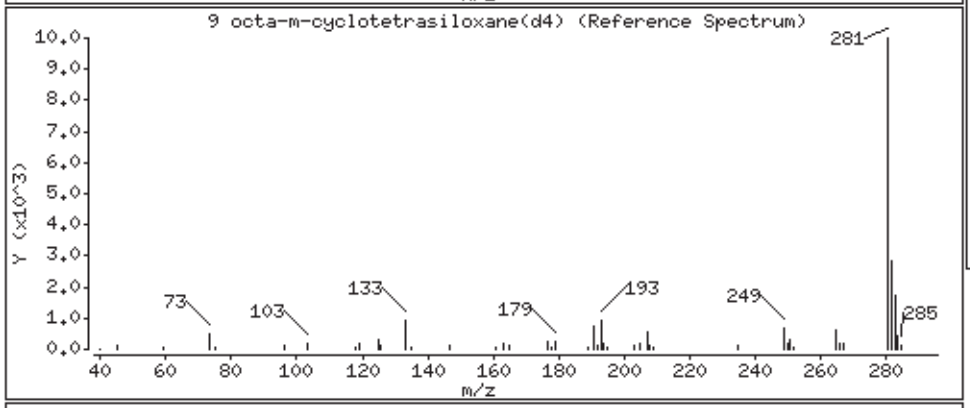
Concentration: 51.7 ug

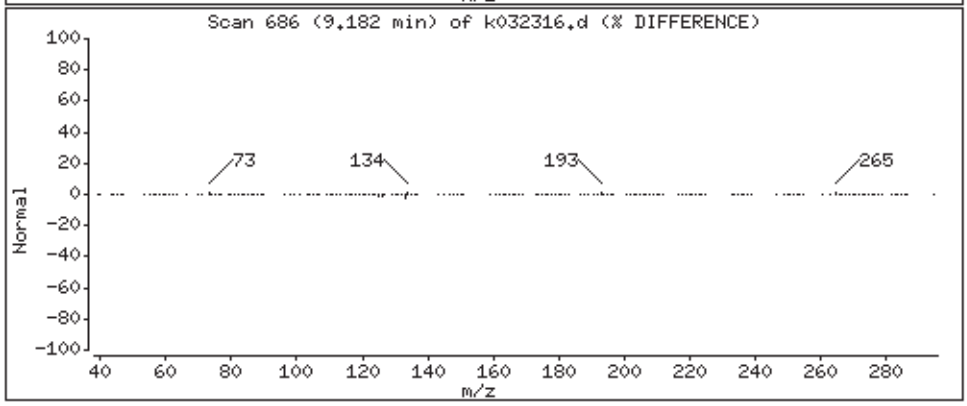












Data File: /var/chem/msdk.i/k23mar10.b/k032316.d

Date : 23-MAR-2010 20:07

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

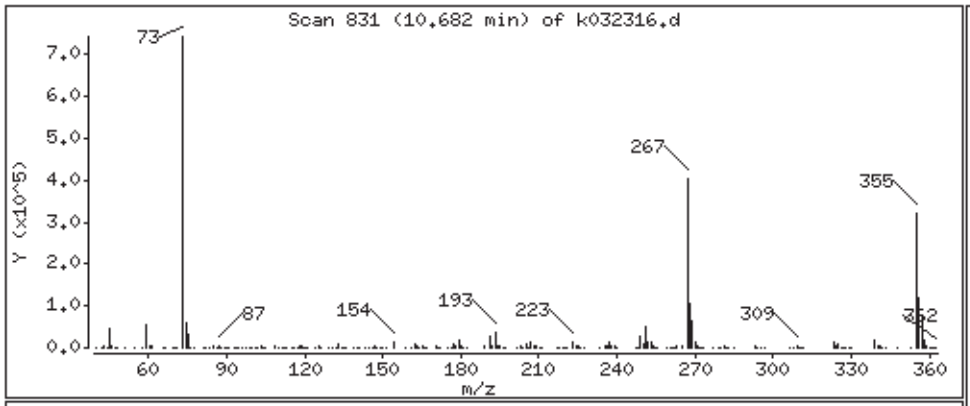
Operator: lz

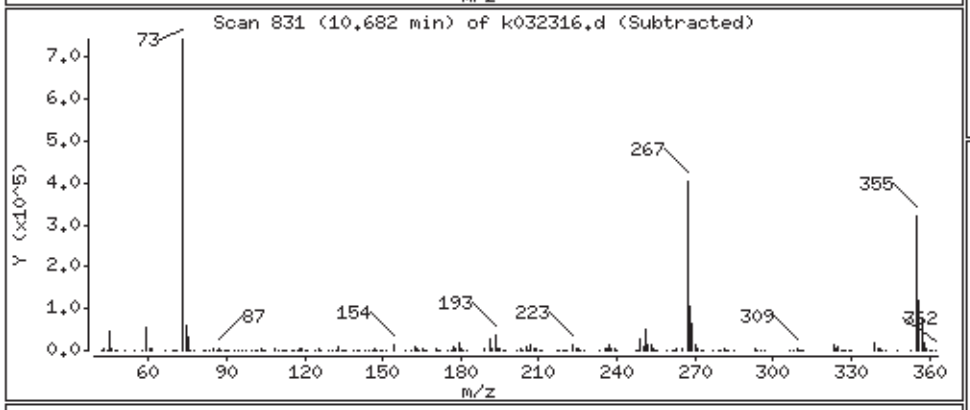
Column phase: DB-5.625

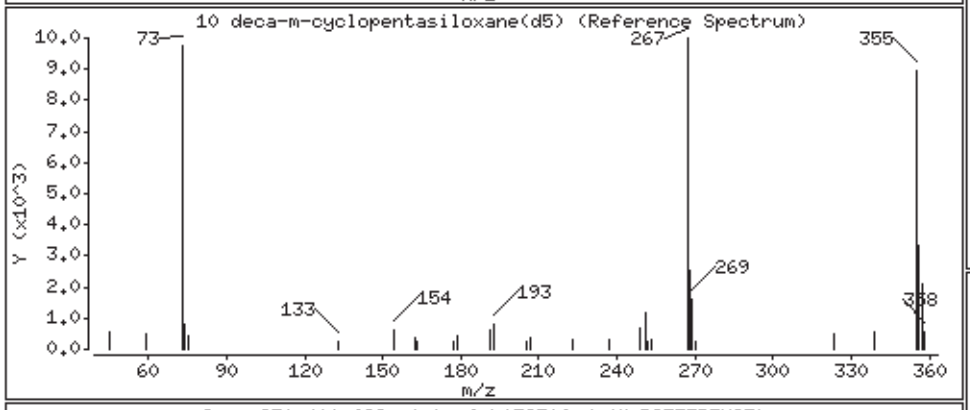
Column diameter: 0.25

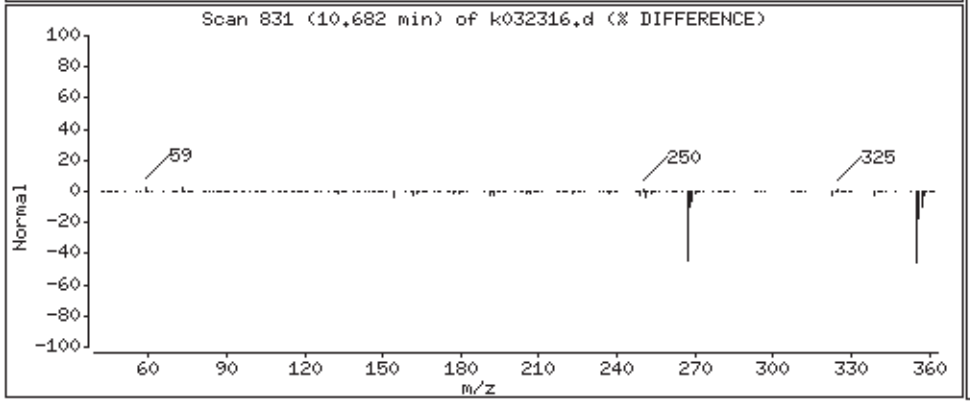
10 deca-m-cyclopentasiloxane(d5)

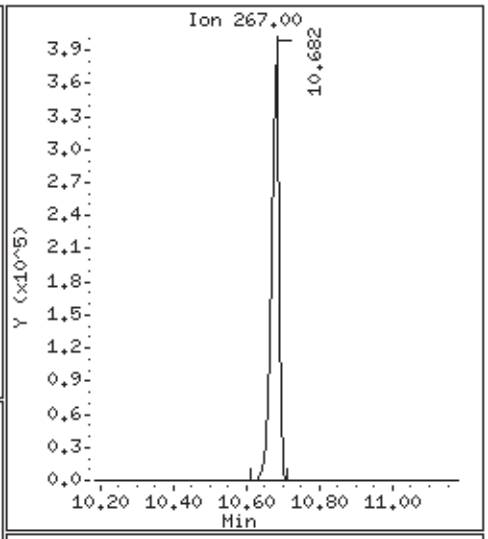
Concentration: 50.7 ug

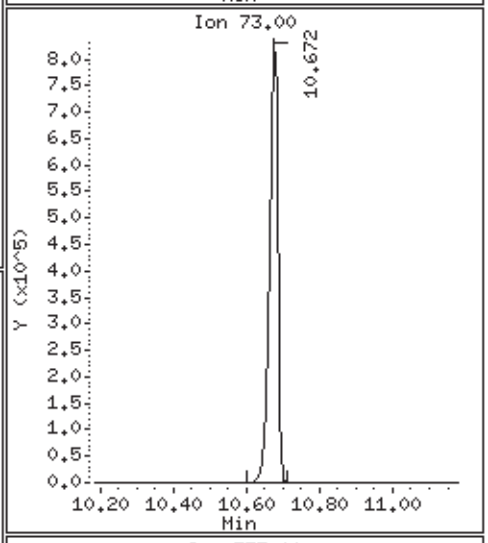


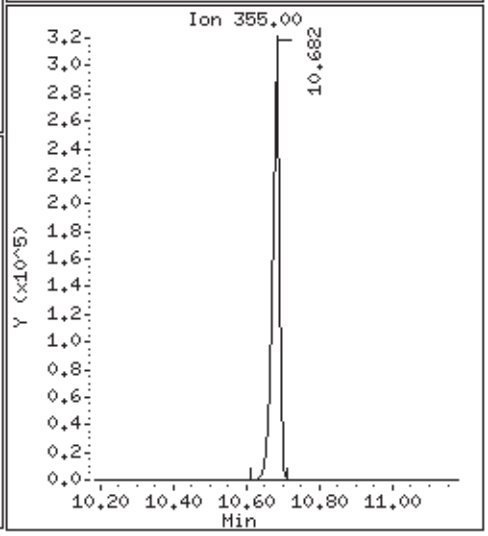












Data File: /var/chem/msdk.i/k23mar10.b/k032316.d

Date : 23-MAR-2010 20:07

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

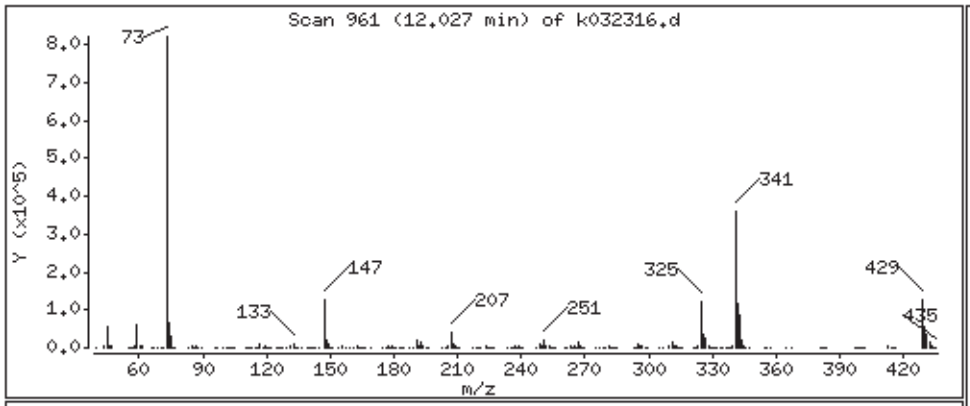
Operator: lz

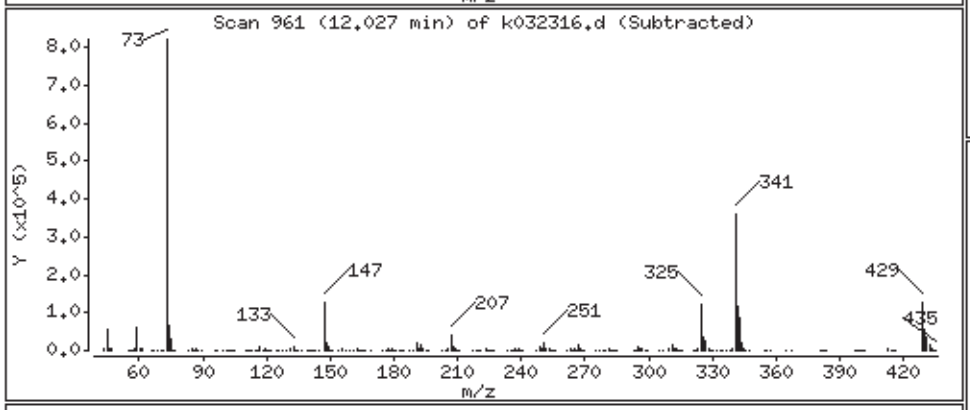
Column phase: DB-5.625

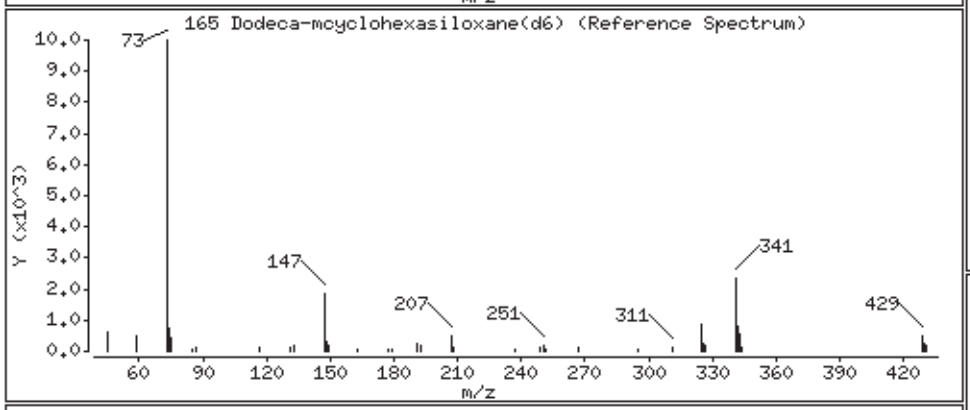
Column diameter: 0.25

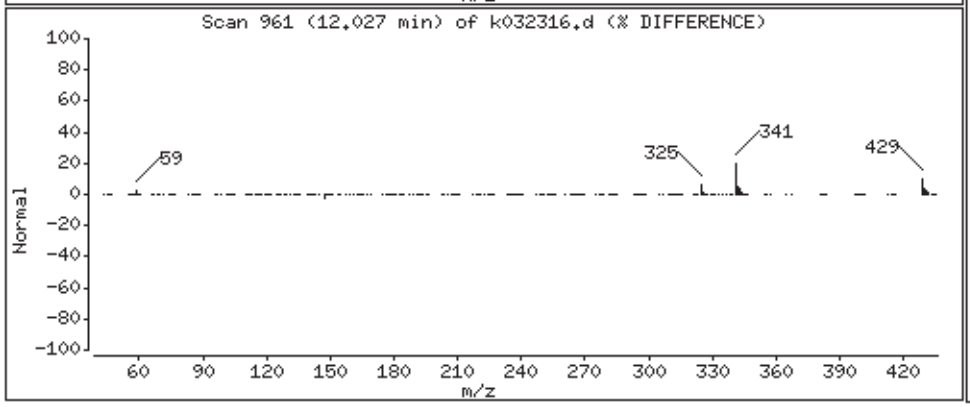
165 Dodeca-mcyclohexasiloxane(d6)

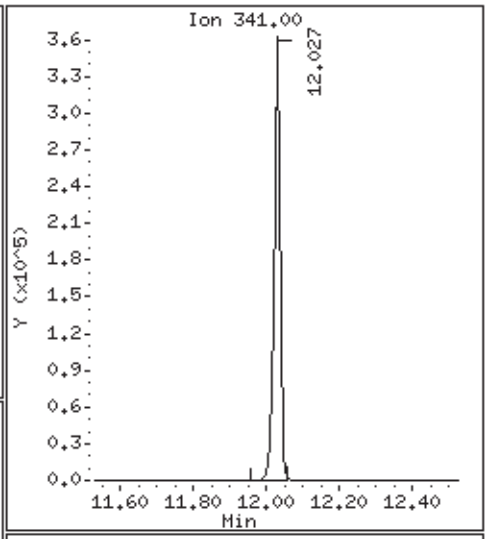
Concentration: 43.5 ug

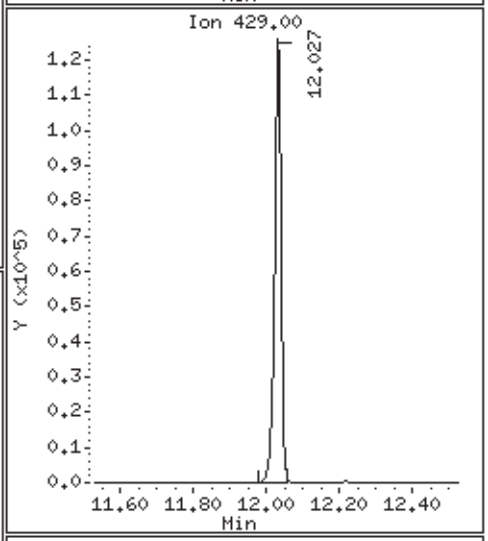


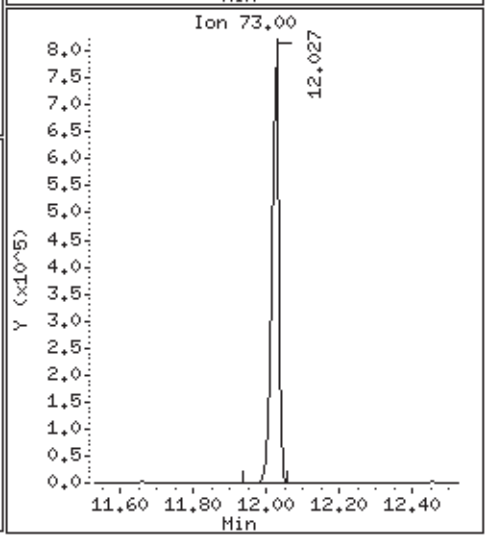












Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032308.d
Lab Smp Id: 1869-39-1.0 Client Smp ID: Level 1
Inj Date : 23-MAR-2010 16:55
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-1.0;Level 1
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 16:55 Cal File: k032308.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	ON-COL (uG/mL)
*	3 Benzene-d6	84	2.983	2.983	(1.000)	1611409	40.0000	
$	4 Hexamethyldisiloxane-d18	162	3.045	3.045	(1.021)	2703007	40.0000	40.3
	5 hexamethyldisiloxane(mm)	147	3.190	3.190	(1.069)	63835	1.00000	1.0
*	6 Toluene-d8	98	5.332	5.332	(1.000)	1431735	40.0000	
	7 octamethyltrisiloxane(mdm)	221	7.702	7.702	(1.444)	35915	1.00000	1.0
*	8 4-Bromofluorobenzene	174	8.457	8.457	(1.000)	449413	40.0000	
	9 octa-m-cyclotetrasiloxane(d4)	281	9.182	9.182	(1.086)	43534	1.00000	1.1
	10 deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	13067	1.00000	1.1
	165 Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	15732	1.00000	1.4(a)

QC Flag Legend

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

Report Date: 24-Mar-2010 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032308.d
Lab Smp Id: 1869-39-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 1
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1611409	9.54
6 Toluene-d8	1312511	656256	2625022	1431735	9.08
8 4-Bromofluorobenz	437743	218872	875486	449413	2.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	0.01
6 Toluene-d8	5.33	4.83	5.83	5.33	0.01
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032308.d

Page 1

Date : 23-MAR-2010 16:55

Client ID: Level 1

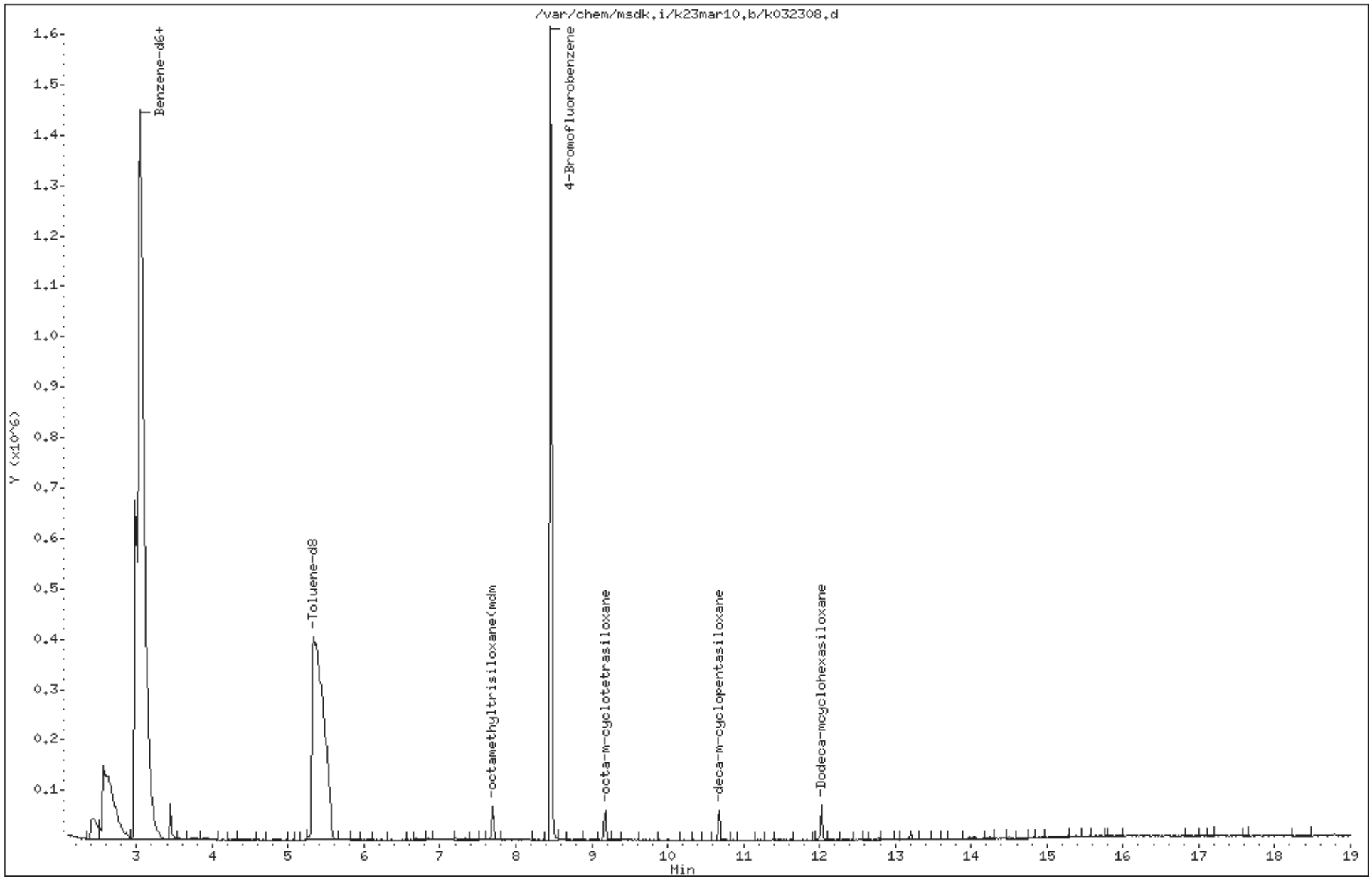
Instrument: msdk.i

Sample Info: ;1869-39-1.0;Level 1

Operator: lz

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032309.d
Lab Smp Id: 1869-39-5.0 Client Smp ID: Level 2
Inj Date : 23-MAR-2010 17:19
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-5.0;Level 2
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 17:19 Cal File: k032309.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3	Benzene-d6	84	2.984	2.984	(1.000)	1484099	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.056	3.056	(1.024)	2529897	40.0000	41.0
5	hexamethyldisiloxane(mm)	147	3.191	3.191	(1.069)	293967	5.00000	5.1
* 6	Toluene-d8	98	5.364	5.364	(1.000)	1337951	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.703	7.703	(1.436)	176015	5.00000	5.5
* 8	4-Bromofluorobenzene	174	8.458	8.458	(1.000)	427508	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.182	9.182	(1.086)	193031	5.00000	5.3
10	deca-m-cyclopentasiloxane(d5)	267	10.683	10.683	(1.263)	64220	5.00000	5.5
165	Dodeca-mcyclohexasiloxane(d6)	341	12.028	12.028	(1.422)	54905	5.00000	5.2

Report Date: 24-Mar-2010 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032309.d
Lab Smp Id: 1869-39-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 2
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1484099	0.89
6 Toluene-d8	1312511	656256	2625022	1337951	1.94
8 4-Bromofluorobenz	437743	218872	875486	427508	-2.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	0.04
6 Toluene-d8	5.33	4.83	5.83	5.36	0.60
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032309.d

Page 1

Date : 23-MAR-2010 17:19

Client ID: Level 2

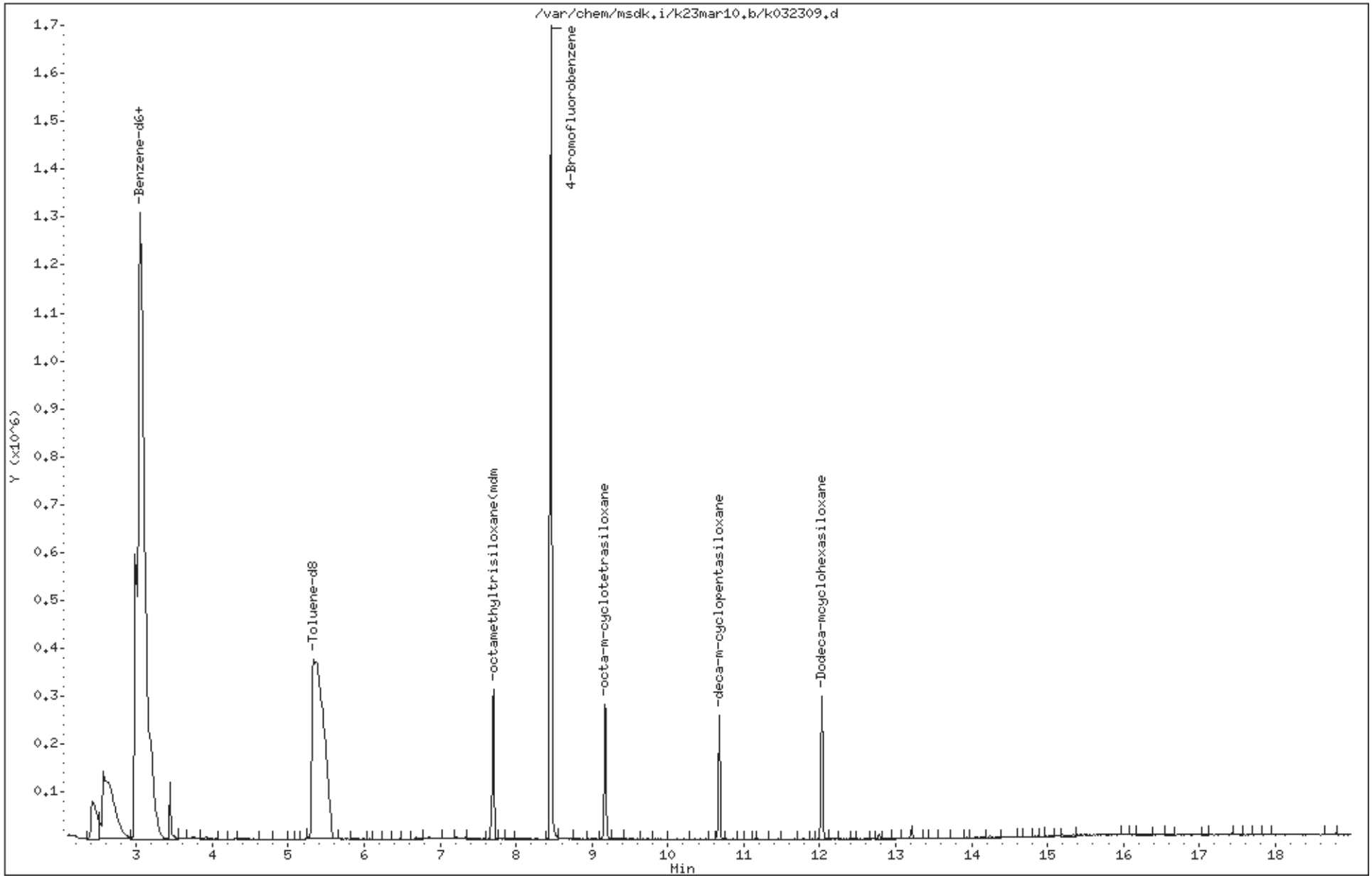
Instrument: msdk.i

Sample Info: ;1869-39-5.0;Level 2

Operator: lz

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032310.d
Lab Smp Id: 1869-39-10 Client Smp ID: Level 3
Inj Date : 23-MAR-2010 17:43
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-10;Level 3
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 17:43 Cal File: k032310.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.993	2.993	(1.000)	1464263	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.045	3.045	(1.017)	2429585	40.0000	39.9
5	hexamethyldisiloxane(mm)	147	3.190	3.190	(1.066)	575522	10.0000	10.2
* 6	Toluene-d8	98	5.332	5.332	(1.000)	1301538	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.702	7.702	(1.444)	345049	10.0000	11.1
* 8	4-Bromofluorobenzene	174	8.457	8.457	(1.000)	412057	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.181	9.181	(1.086)	381660	10.0000	10.9
10	deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	123596	10.0000	11.0
165	Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	105408	10.0000	10.3

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032310.d
Lab Smp Id: 1869-39-10
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 3
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1464263	-0.46
6 Toluene-d8	1312511	656256	2625022	1301538	-0.84
8 4-Bromofluorobenz	437743	218872	875486	412057	-5.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.99	0.35
6 Toluene-d8	5.33	4.83	5.83	5.33	0.00
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.00

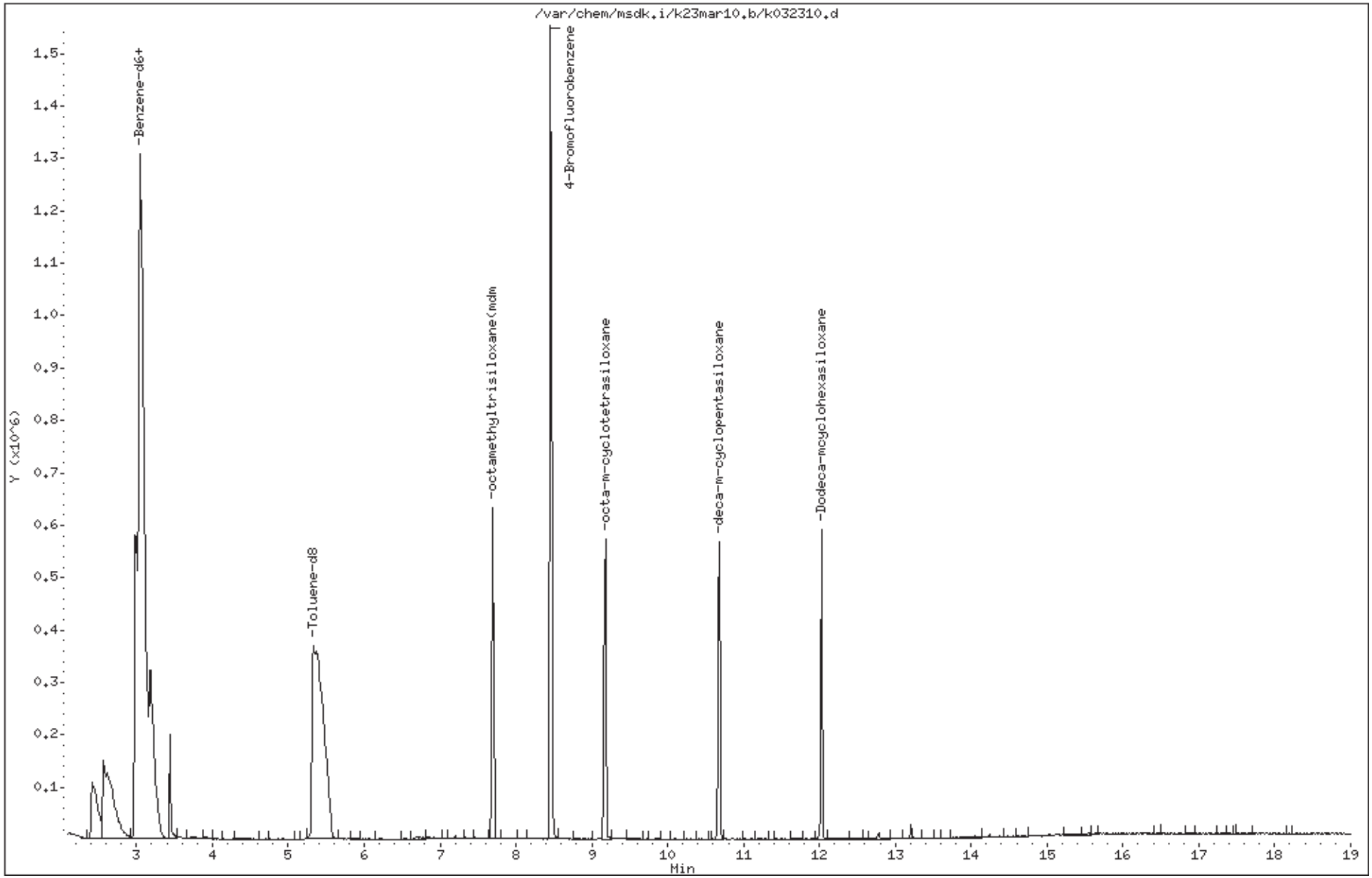
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032310.d
Date : 23-MAR-2010 17:43
Client ID: Level 3
Sample Info: ;1869-39-10;Level 3

Column phase: DB-5.625

Instrument: msdk.i

Operator: lz
Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032311.d
Lab Smp Id: 1869-39-25 Client Smp ID: Level 4
Inj Date : 23-MAR-2010 18:07
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-25;Level 4
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:07 Cal File: k032311.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.987	2.987	(1.000)	1527659	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.049	3.049	(1.021)	2561438	40.0000	40.3
5	hexamethyldisiloxane(mm)	147	3.183	3.183	(1.066)	1487129	25.0000	25.3
* 6	Toluene-d8	98	5.325	5.325	(1.000)	1354418	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.705	7.705	(1.447)	850373	25.0000	26.3
* 8	4-Bromofluorobenzene	174	8.461	8.461	(1.000)	431768	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.175	9.175	(1.084)	937892	25.0000	25.6
10	deca-m-cyclopentasiloxane(d5)	267	10.675	10.675	(1.262)	308512	25.0000	26.2
165	Dodeca-mcyclohexasiloxane(d6)	341	12.031	12.031	(1.422)	260303	25.0000	24.3

Report Date: 24-Mar-2010 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032311.d
Lab Smp Id: 1869-39-25
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 4
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1527659	3.85
6 Toluene-d8	1312511	656256	2625022	1354418	3.19
8 4-Bromofluorobenz	437743	218872	875486	431768	-1.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.99	0.13
6 Toluene-d8	5.33	4.83	5.83	5.33	-0.12
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032311.d

Page 1

Date : 23-MAR-2010 18:07

Client ID: Level 4

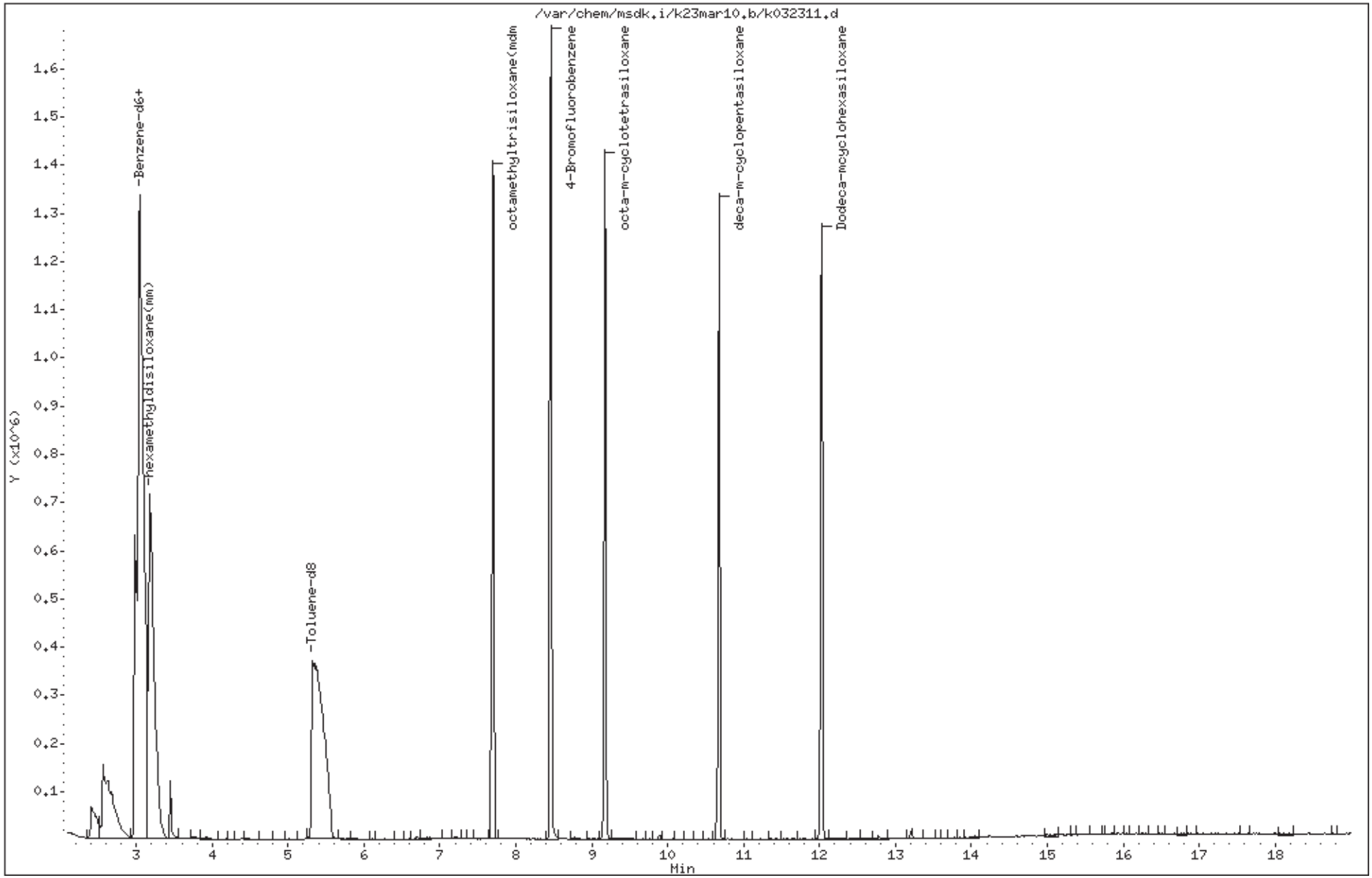
Instrument: msdk.i

Sample Info: ;1869-39-25;Level 4

Operator: lz

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032312.d
Lab Smp Id: 1869-20-50 Client Smp ID: Level 5
Inj Date : 23-MAR-2010 18:31
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-20-50;Level 5
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:06 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.983	2.983	(1.000)	1471066	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.045	3.045	(1.021)	2450038	40.0000	40.0
5	hexamethyldisiloxane(mm)	147	3.190	3.190	(1.069)	2913161	50.0000	51.4
* 6	Toluene-d8	98	5.332	5.332	(1.000)	1312511	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.702	7.702	(1.444)	1613666	50.0000	51.6
* 8	4-Bromofluorobenzene	174	8.457	8.457	(1.000)	437743	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.181	9.181	(1.086)	2011028	50.0000	54.1
10	deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	631480	50.0000	52.9
165	Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	516814	50.0000	47.6

Report Date: 24-Mar-2010 10:06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032312.d
Lab Smp Id: 1869-20-50
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 5
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1471066	0.00
6 Toluene-d8	1312511	656256	2625022	1312511	0.00
8 4-Bromofluorobenz	437743	218872	875486	437743	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	0.00
6 Toluene-d8	5.33	4.83	5.83	5.33	0.00
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032312.d

Page 1

Date : 23-MAR-2010 18:31

Client ID: Level 5

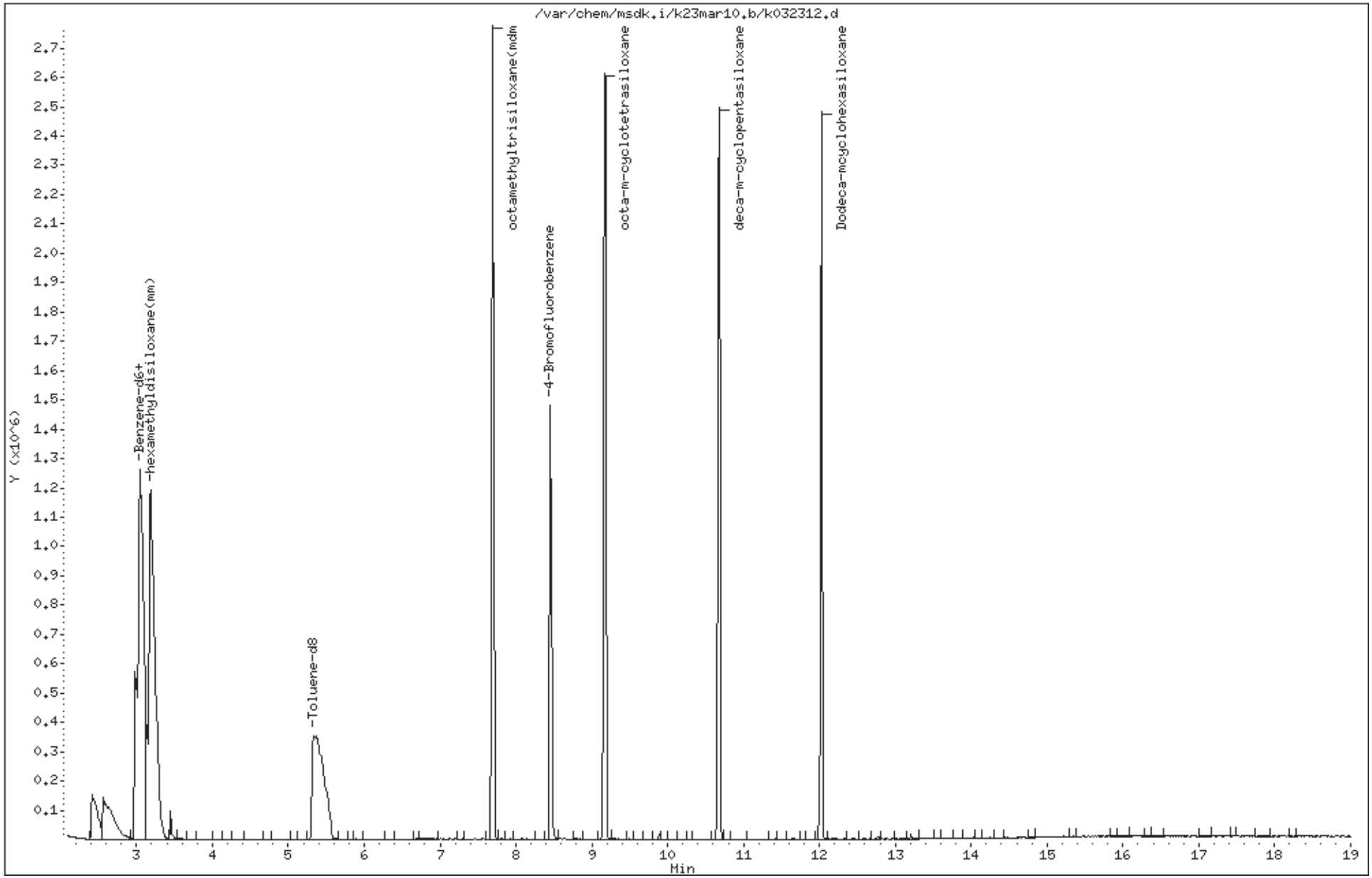
Instrument: msdk.i

Sample Info: ;1869-20-50;Level 5

Operator: lz

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032313.d
Lab Smp Id: 1869-39-100 Client Smp ID: Level 6
Inj Date : 23-MAR-2010 18:55
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-100;Level 6
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:55 Cal File: k032313.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.983	2.983	(1.000)	1486401	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.045	3.045	(1.021)	2459643	40.0000	39.6
5	hexamethyldisiloxane(mm)	147	3.190	3.190	(1.069)	5573293	100.000	95.9
* 6	Toluene-d8	98	5.332	5.332	(1.000)	1338190	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.702	7.702	(1.444)	2968558	100.000	88.8
* 8	4-Bromofluorobenzene	174	8.457	8.457	(1.000)	434557	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.181	9.181	(1.086)	3388571	100.000	87.2
10	deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	1102003	100.000	88.5
165	Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	979603	100.000	86.4

Report Date: 24-Mar-2010 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032313.d
Lab Smp Id: 1869-39-100
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 6
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1486401	1.04
6 Toluene-d8	1312511	656256	2625022	1338190	1.96
8 4-Bromofluorobenz	437743	218872	875486	434557	-0.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	0.00
6 Toluene-d8	5.33	4.83	5.83	5.33	0.00
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.00

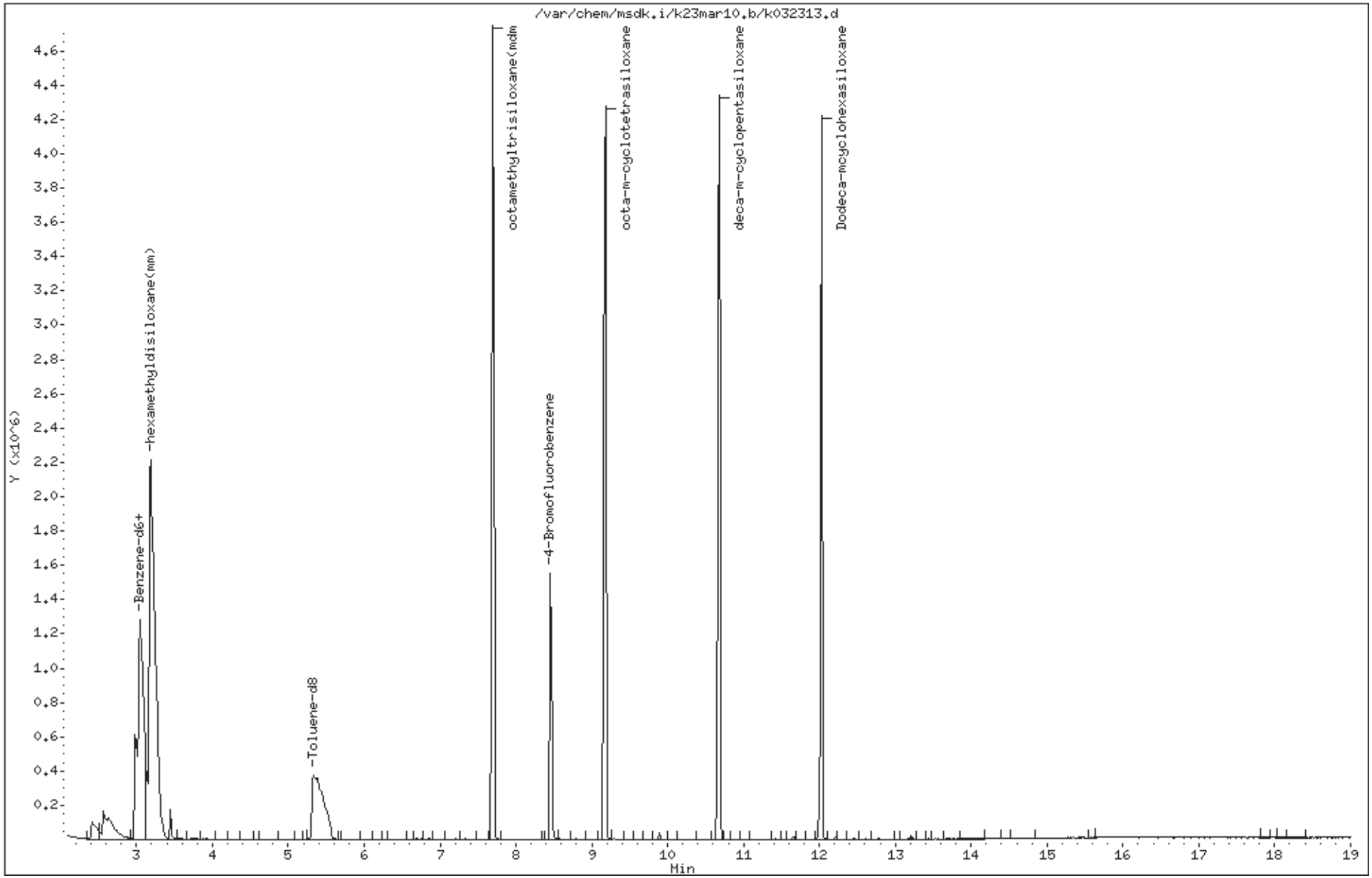
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032313.d
Date : 23-MAR-2010 18:55
Client ID: Level 6
Sample Info: ;1869-39-100;Level 6

Column phase: DB-5.625

Instrument: msdk.i

Operator: lz
Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032314.d
Lab Smp Id: 1869-39-120 Client Smp ID: Level 7
Inj Date : 23-MAR-2010 19:19
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-120;Level 7
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 19:19 Cal File: k032314.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.983	2.983	(1.000)	1560192	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.045	3.045	(1.021)	2582507	40.0000	39.6
5	hexamethyldisiloxane(mm)	147	3.190	3.190	(1.069)	6961549	120.000	115
* 6	Toluene-d8	98	5.342	5.342	(1.000)	1401311	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.701	7.701	(1.442)	3543598	120.000	104
* 8	4-Bromofluorobenzene	174	8.457	8.457	(1.000)	446586	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.181	9.181	(1.086)	3955701	120.000	102
10	deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	1268768	120.000	102
165	Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	1147152	120.000	101

Report Date: 24-Mar-2010 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032314.d
Lab Smp Id: 1869-39-120
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 7
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1560192	6.06
6 Toluene-d8	1312511	656256	2625022	1401311	6.77
8 4-Bromofluorobenz	437743	218872	875486	446586	2.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	-0.01
6 Toluene-d8	5.33	4.83	5.83	5.34	0.19
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.00

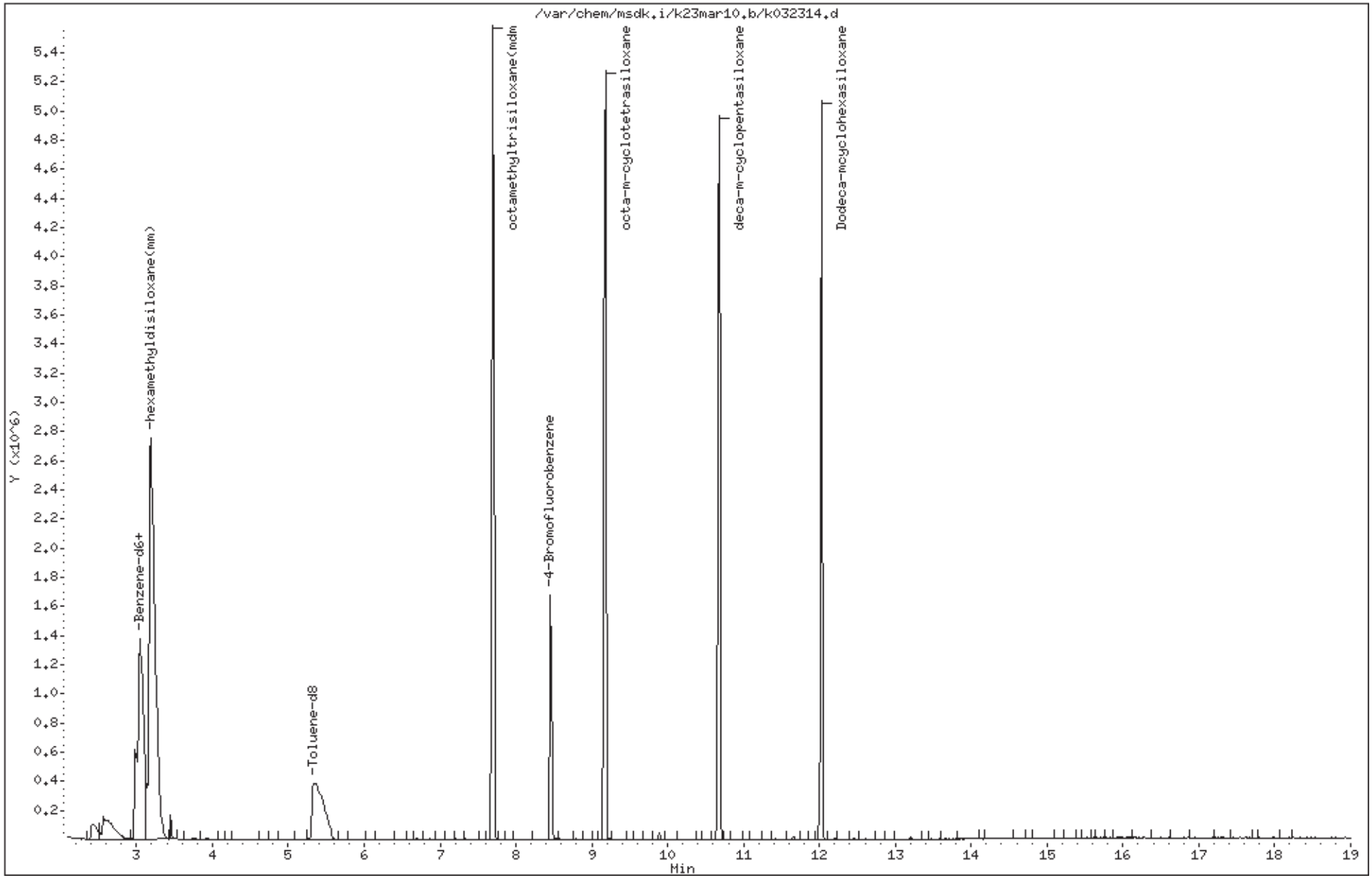
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032314.d
Date : 23-MAR-2010 19:19
Client ID: Level 7
Sample Info: ;1869-39-120;Level 7

Column phase: DB-5.625

Instrument: msdk.i

Operator: lz
Column diameter: 0.25



Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k23mar10.b/k032315.d
Lab Smp Id: 1869-39-160 Client Smp ID: Level 8
Inj Date : 23-MAR-2010 19:43
Operator : lz Inst ID: msdk.i
Smp Info : ;1869-39-160;Level 8
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k23mar10.b/k10k0323.m
Meth Date : 24-Mar-2010 10:02 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 19:43 Cal File: k032315.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.983	2.983	(1.000)	1549666	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	3.045	3.045	(1.021)	2514548	40.0000	39.0
5	hexamethyldisiloxane(mm)	147	3.190	3.190	(1.069)	8955592	160.000	150
* 6	Toluene-d8	98	5.353	5.353	(1.000)	1395390	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.702	7.702	(1.439)	4424387	160.000	133
* 8	4-Bromofluorobenzene	174	8.457	8.457	(1.000)	458922	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.182	9.182	(1.086)	5067446	160.000	130
10	deca-m-cyclopentasiloxane(d5)	267	10.682	10.682	(1.263)	1654309	160.000	132
165	Dodeca-mcyclohexasiloxane(d6)	341	12.027	12.027	(1.422)	1517986	160.000	133

Report Date: 24-Mar-2010 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k032315.d
Lab Smp Id: 1869-39-160
Analysis Type: SV
Quant Type: ISTD
Operator: lz
Method File: /var/chem/msdk.i/k23mar10.b/k10k0323.m
Misc Info:

Calibration Date: 23-MAR-2010
Calibration Time: 18:31
Client Smp ID: Level 8
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1471066	735533	2942132	1549666	5.34
6 Toluene-d8	1312511	656256	2625022	1395390	6.31
8 4-Bromofluorobenz	437743	218872	875486	458922	4.84

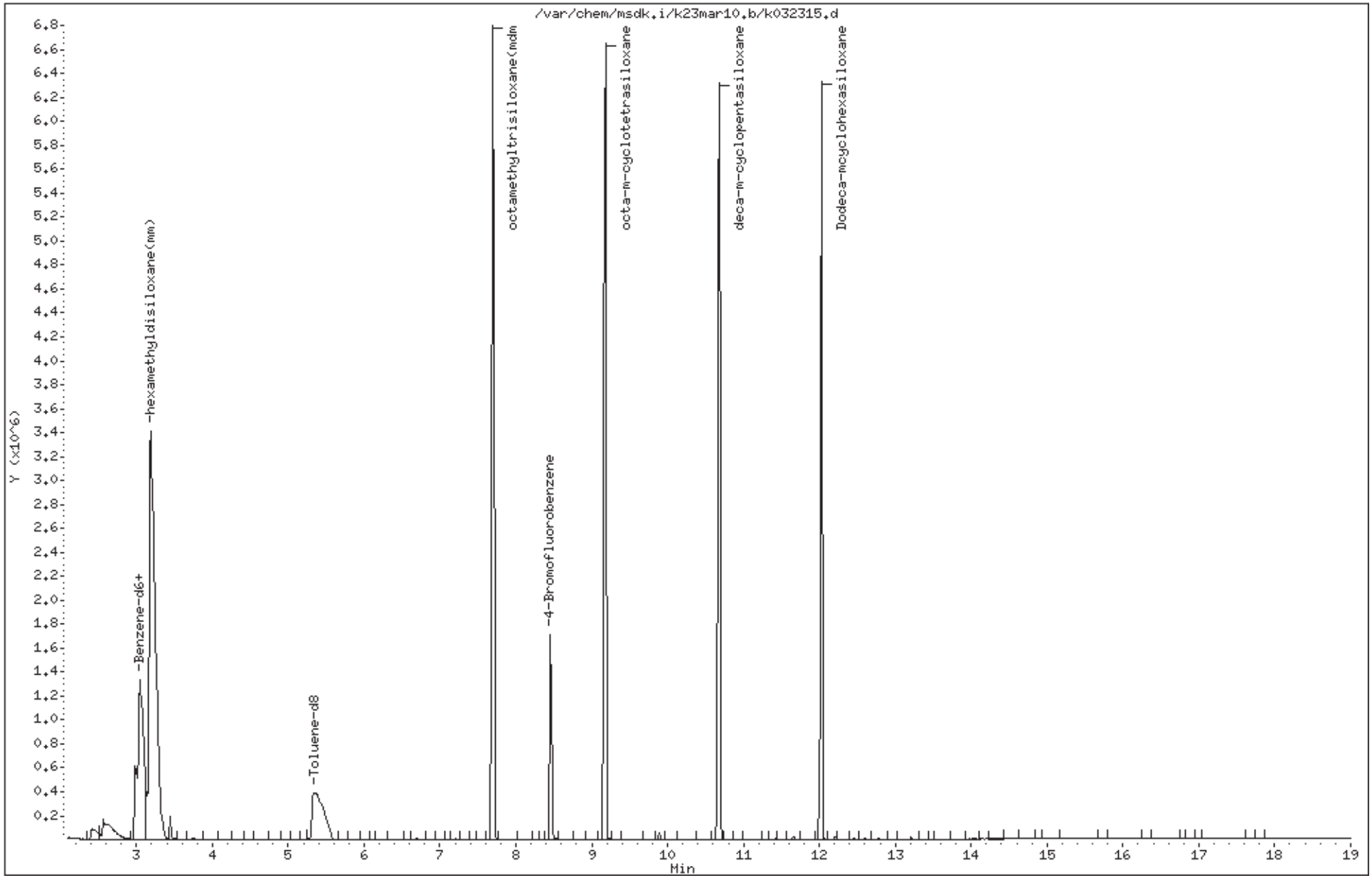
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.98	2.48	3.48	2.98	0.01
6 Toluene-d8	5.33	4.83	5.83	5.35	0.39
8 4-Bromofluorobenz	8.46	7.96	8.96	8.46	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k23mar10.b/k032315.d
Date : 23-MAR-2010 19:43
Client ID: Level 8
Sample Info: ;1869-39-160;Level 8

Instrument: msdk.i
Operator: lz
Column diameter: 0.25

Column phase: DB-5.625



Report Date: 20-May-2010 11:35

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdk.i Injection Date: 20-MAY-2010 10:48
Lab File ID: k052005.d Init. Cal. Date(s): 23-MAR-2010 23-MAR-2010
Analysis Type: WATER Init. Cal. Times: 16:55 19:43
Lab Sample ID: 1869-20-50 Quant Type: ISTD
Method: /var/chem/msdk.i/k20may10.b/k10k0323.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Hexamethyldisiloxane-d18	1.66452	1.92083	0.050	-15.39815	30.00000	Averaged
5 hexamethyldisiloxane(mm)	1.53938	1.26662	0.050	17.71888	30.00000	Averaged
7 octamethyltrisiloxane(mdm)	0.95342	0.89228	0.050	6.41197	30.00000	Averaged
9 octa-m-cyclotetrasiloxane(d	3.39686	3.23450	0.050	4.77947	30.00000	Averaged
10 deca-m-cyclopentasiloxane(d	1.09056	1.15584	0.050	-5.98593	30.00000	Averaged
165 Dodeca-mcyclohexasiloxane(d	0.99311	0.90327	0.050	9.04624	30.00000	Averaged

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k20may10.b/k052005.d
Lab Smp Id: 1869-20-50 Client Smp ID: CCV
Inj Date : 20-MAY-2010 10:48
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-20-50;CCV
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.873	2.873	(1.000)	1174851	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.924	2.924	(1.018)	2256688	40.0000	46.2
5	hexamethyldisiloxane(mm)	147	3.059	3.059	(1.065)	1860116	50.0000	41.1
* 6	Toluene-d8	98	5.159	5.159	(1.000)	1158115	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.612	7.612	(1.475)	1291710	50.0000	46.8
* 8	4-Bromofluorobenzene	174	8.388	8.388	(1.000)	415107	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.092	9.092	(1.084)	1678332	50.0000	47.6
10	deca-m-cyclopentasiloxane(d5)	267	10.603	10.603	(1.264)	599746	50.0000	53.0
165	Dodeca-mcyclohexasiloxane(d6)	341	11.948	11.948	(1.424)	468693	50.0000	45.5

Report Date: 20-May-2010 11:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052005.d
Lab Smp Id: 1869-20-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Client Smp ID: CCV
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1174851	0.00
6 Toluene-d8	1158115	579058	2316230	1158115	0.00
8 4-Bromofluorobenz	415107	207554	830214	415107	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.00
6 Toluene-d8	5.16	4.66	5.66	5.16	0.00
8 4-Bromofluorobenz	8.39	7.89	8.89	8.39	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k20may10.b/k052005.d

Date : 20-MAY-2010 10:48

Client ID: CCV

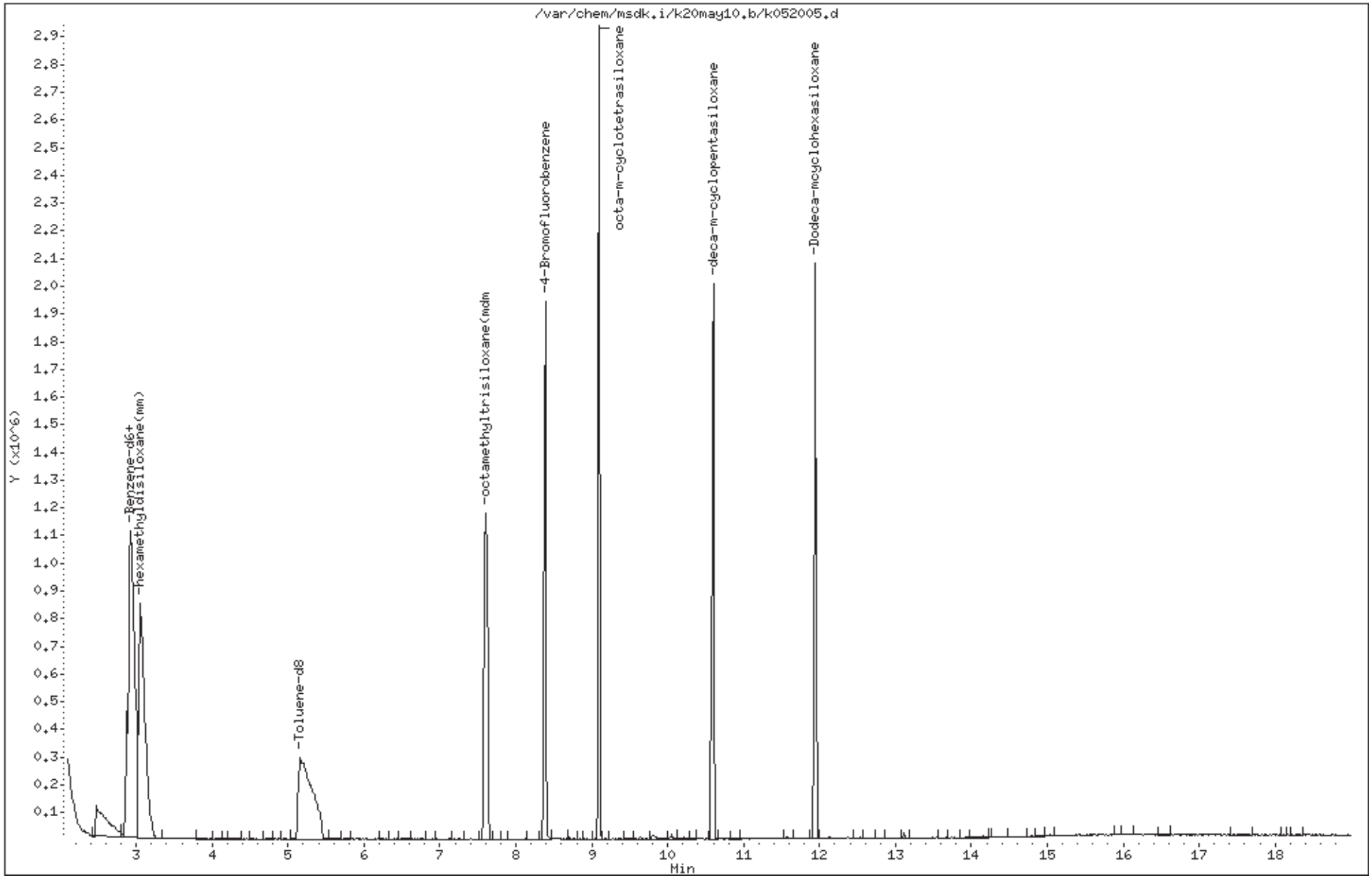
Instrument: msdk.i

Sample Info: ;1869-20-50;CCV

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdk.i Injection Date: 26-MAY-2010 09:57
Lab File ID: k052603.d Init. Cal. Date(s): 23-MAR-2010 23-MAR-2010
Analysis Type: WATER Init. Cal. Times: 16:55 19:43
Lab Sample ID: 1869-20-50 Quant Type: ISTD
Method: /var/chem/msdk.i/k26may10.b/k10k0323.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Hexamethyldisiloxane-d18	1.66452	1.78507	0.050	-7.24188	30.00000	Averaged
5 hexamethyldisiloxane(mm)	1.53938	1.48798	0.050	3.33921	30.00000	Averaged
7 octamethyltrisiloxane(mdm)	0.95342	1.01519	0.050	-6.47888	30.00000	Averaged
9 octa-m-cyclotetrasiloxane(d	3.39686	3.61627	0.050	-6.45925	30.00000	Averaged
10 deca-m-cyclopentasiloxane(d	1.09056	1.27828	0.050	-17.21301	30.00000	Averaged
165 Dodeca-mcyclohexasiloxane(d	0.99311	0.95073	0.050	4.26788	30.00000	Averaged

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k26may10.b/k052603.d
Lab Smp Id: 1869-20-50 Client Smp ID: CCV
Inj Date : 26-MAY-2010 09:57
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-20-50;CCV
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	ON-COL (uG/mL)
* 3	Benzene-d6	84	2.870	2.870	(1.000)	1007421	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.932	2.932	(1.022)	1798313	40.0000	42.9
5	hexamethyldisiloxane(mm)	147	3.056	3.056	(1.065)	1873779	50.0000	48.3
* 6	Toluene-d8	98	5.157	5.157	(1.000)	948941	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.599	7.599	(1.474)	1204192	50.0000	53.2
* 8	4-Bromofluorobenzene	174	8.385	8.385	(1.000)	315762	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.099	9.099	(1.085)	1427350	50.0000	53.2
10	deca-m-cyclopentasiloxane(d5)	267	10.600	10.600	(1.264)	504539	50.0000	58.6
165	Dodeca-mcyclohexasiloxane(d6)	341	11.945	11.945	(1.425)	375254	50.0000	47.9

Report Date: 26-May-2010 10:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052603.d
Lab Smp Id: 1869-20-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Client Smp ID: CCV
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	1007421	0.00
6 Toluene-d8	948941	474470	1897882	948941	0.00
8 4-Bromofluorobenz	315762	157881	631524	315762	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.00
6 Toluene-d8	5.16	4.66	5.66	5.16	0.00
8 4-Bromofluorobenz	8.39	7.89	8.89	8.39	0.00

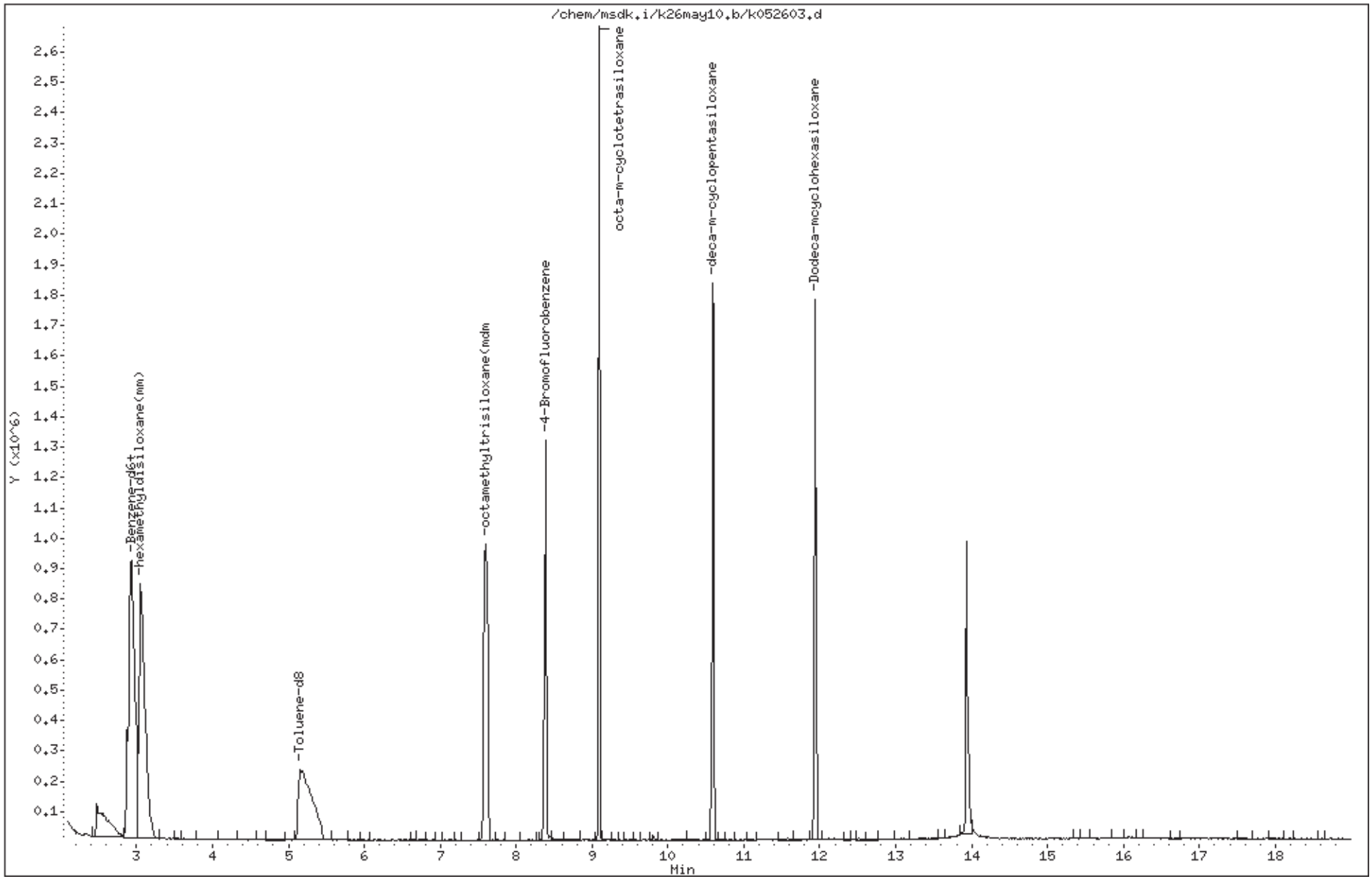
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdk.i/k26may10.b/k052603.d
Date : 26-MAY-2010 09:57
Client ID: CCV
Sample Info: ;1869-20-50;CCV

Column phase: DB-5.625

Instrument: msdk.i

Operator: LZ
Column diameter: 0.25



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdk.i Injection Date: 28-MAY-2010 11:58
Lab File ID: k052808.d Init. Cal. Date(s): 23-MAR-2010 23-MAR-2010
Analysis Type: WATER Init. Cal. Times: 16:55 19:43
Lab Sample ID: 1869-20-50 Quant Type: ISTD
Method: /chem/msdk.i/k28may10.b/k10k0323.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Hexamethyldisiloxane-d18	1.66452	1.78946	0.050	-7.50584	30.00000	Averaged
5 hexamethyldisiloxane(mm)	1.53938	1.20512	0.050	21.71398	30.00000	Averaged
7 octamethyltrisiloxane(mdm)	0.95342	0.88622	0.050	7.04793	30.00000	Averaged
9 octa-m-cyclotetrasiloxane(d	3.39686	3.30760	0.050	2.62768	30.00000	Averaged
10 deca-m-cyclopentasiloxane(d	1.09056	1.22655	0.050	-12.46997	30.00000	Averaged
165 Dodeca-mcyclohexasiloxane(d	0.99311	0.84188	0.050	15.22770	30.00000	Averaged

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052808.d
Lab Smp Id: 1869-20-50 Client Smp ID: CCV
Inj Date : 28-MAY-2010 11:58
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-20-50;CCV
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.872	2.872	(1.000)	819981	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.924	2.924	(1.018)	1467323	40.0000	43.0
5	hexamethyldisiloxane(mm)	147	3.058	3.058	(1.065)	1235222	50.0000	39.1
* 6	Toluene-d8	98	5.148	5.148	(1.000)	797846	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.601	7.601	(1.476)	883835	50.0000	46.5
* 8	4-Bromofluorobenzene	174	8.377	8.377	(1.000)	279522	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.091	9.091	(1.085)	1155683	50.0000	48.7
10	deca-m-cyclopentasiloxane(d5)	267	10.581	10.581	(1.263)	428560	50.0000	56.2
165	Dodeca-mcyclohexasiloxane(d6)	341	11.937	11.937	(1.425)	294156	50.0000	42.4

Report Date: 28-May-2010 12:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052808.d
Lab Smp Id: 1869-20-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Client Smp ID: CCV
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	819981	0.00
6 Toluene-d8	797846	398923	1595692	797846	0.00
8 4-Bromofluorobenz	279522	139761	559044	279522	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.00
6 Toluene-d8	5.15	4.65	5.65	5.15	0.00
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdk.i/k28may10.b/k052808.d

Page 1

Date : 28-MAY-2010 11:58

Client ID: CCV

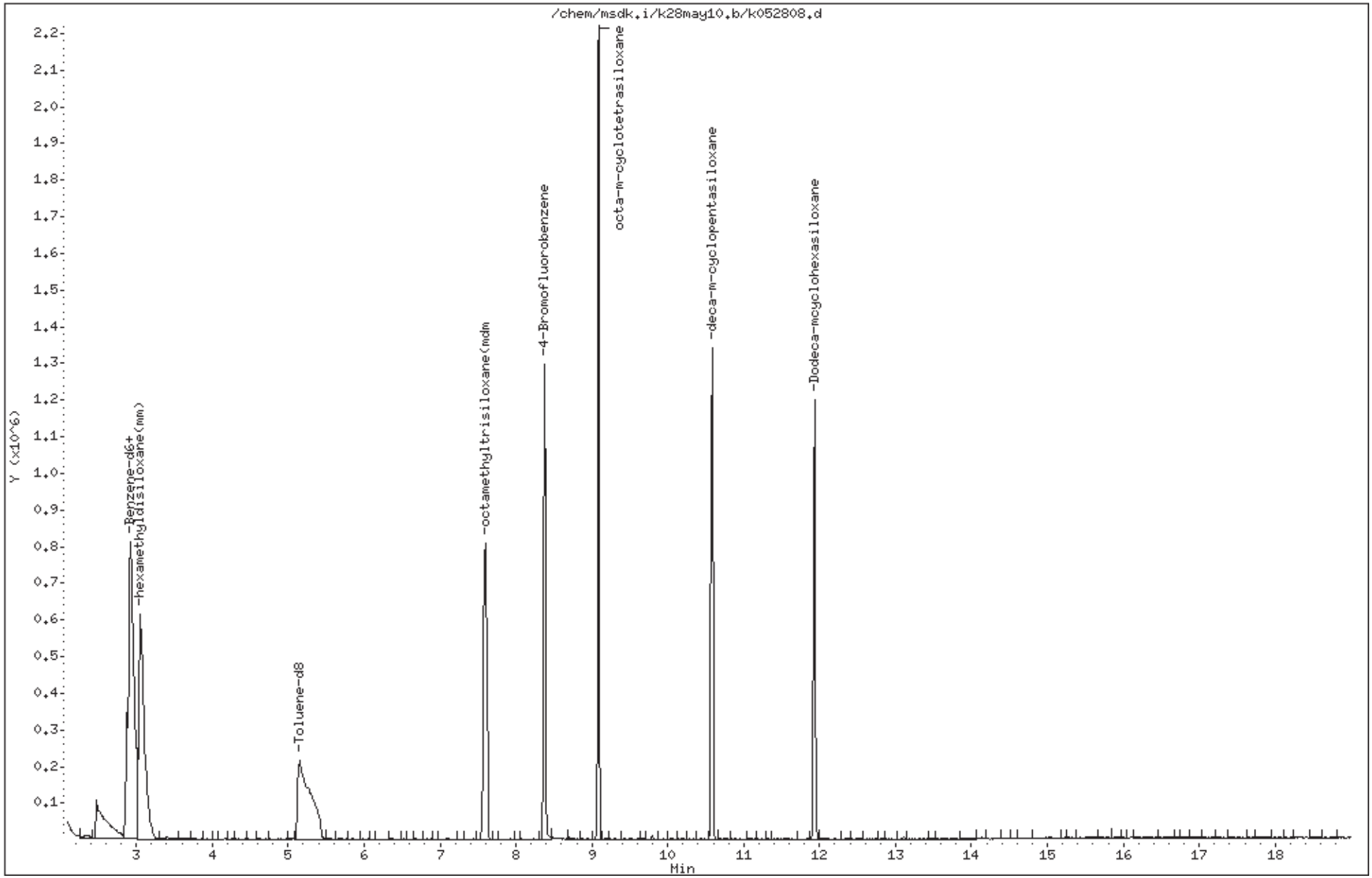
Instrument: msdk.i

Sample Info: ;1869-20-50;CCV

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdk.i Injection Date: 28-MAY-2010 19:59
Lab File ID: k052828.d Init. Cal. Date(s): 23-MAR-2010 23-MAR-2010
Analysis Type: WATER Init. Cal. Times: 16:55 19:43
Lab Sample ID: 1869-20-50 Quant Type: ISTD
Method: /chem/msdk.i/k28may10a.b/k10k0323.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 Hexamethyldisiloxane-d18	1.66452	1.68527	0.050	-1.24645	30.00000	Averaged
5 hexamethyldisiloxane(mm)	1.53938	1.12568	0.050	26.87495	30.00000	Averaged
7 octamethyltrisiloxane(mdm)	0.95342	0.86727	0.050	9.03611	30.00000	Averaged
9 octa-m-cyclotetrasiloxane(d	3.39686	3.26632	0.050	3.84290	30.00000	Averaged
10 deca-m-cyclopentasiloxane(d	1.09056	1.22935	0.050	-12.72695	30.00000	Averaged
165 Dodeca-mcyclohexasiloxane(d	0.99311	0.83467	0.050	15.95405	30.00000	Averaged

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052828.d
Lab Smp Id: 1869-20-50 Client Smp ID: CCV
Inj Date : 28-MAY-2010 19:59
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-20-50;CCV
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (uG/mL)	AMOUNTS ON-COL (uG/mL)
* 3	Benzene-d6	84	2.881	2.881	(1.000)	767574	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.933	2.933	(1.018)	1293570	40.0000	40.5
5	hexamethyldisiloxane(mm)	147	3.068	3.068	(1.065)	1080049	50.0000	36.6
* 6	Toluene-d8	98	5.158	5.158	(1.000)	708584	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.600	7.600	(1.473)	768163	50.0000	45.5
* 8	4-Bromofluorobenzene	174	8.376	8.376	(1.000)	250041	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.080	9.080	(1.084)	1020892	50.0000	48.1
10	deca-m-cyclopentasiloxane(d5)	267	10.591	10.591	(1.264)	384236	50.0000	56.4
165	Dodeca-mcyclohexasiloxane(d6)	341	11.936	11.936	(1.425)	260877	50.0000	42.0

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052828.d
Lab Smp Id: 1869-20-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Client Smp ID: CCV
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	767574	0.00
6 Toluene-d8	708584	354292	1417168	708584	0.00
8 4-Bromofluorobenz	250041	125020	500082	250041	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.88	0.00
6 Toluene-d8	5.16	4.66	5.66	5.16	0.00
8 4-Bromofluorobenz	8.38	7.88	8.88	8.38	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdk.i/k28may10a.b/k052828.d

Page 1

Date : 28-MAY-2010 19:59

Client ID: CCV

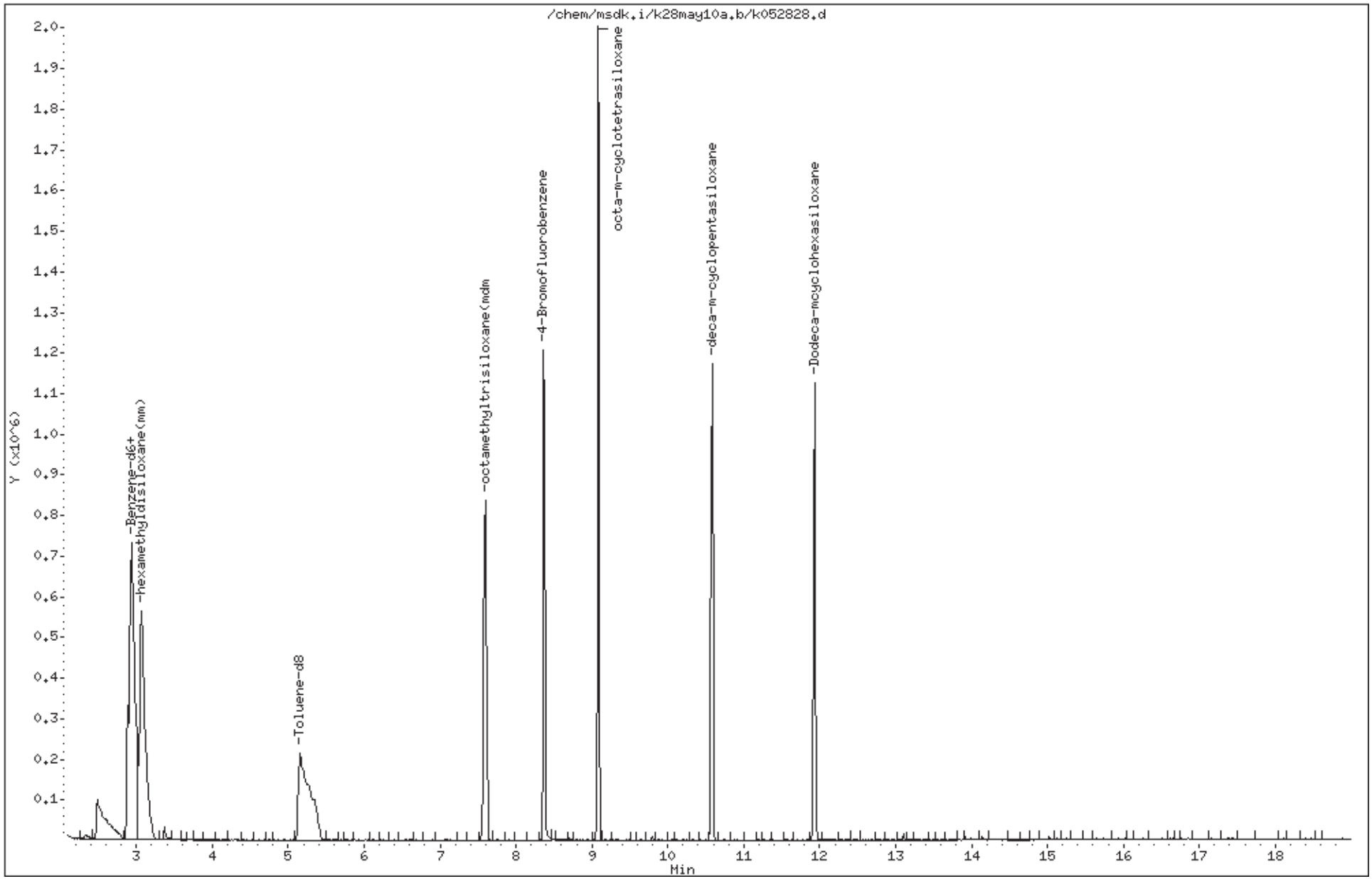
Instrument: msdk.i

Sample Info: ;1869-20-50;CCV

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1005453C-34A

SILOXANES - GC/MS

File Name:	**k052605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/10 10:47 AM**	

Compound	%Recovery
Octamethylcyclotetrasiloxane (D4)	85
Decamethylcylopentasiloxane (D5)	97
Dodecamethylcyclohexasiloxane (D6)	77
Hexamethyldisiloxane	74
Octamethyltrisiloxane	89

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	106	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k26may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Level: MED Operator: LZ
Data Type: MS DATA SampleType: LCS
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	36.8	73.61	70-130
7 octamethyltrisilox	50.0	44.4	88.79	70-130
9 octa-m-cyclotetras	50.0	42.5	85.03	70-130
10 deca-m-cyclopentas	50.0	48.3	96.67	70-130
165 Dodeca-mcyclohexas	50.0	38.3	76.63	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	42.3	105.81	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k26may10.b/k052605.d
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Inj Date : 26-MAY-2010 10:47
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-21-50;LCS
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k26may10.b/k10k0323.m
Meth Date : 26-May-2010 10:45 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.873	2.870	(1.000)	1131834	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.924	2.932	(1.018)	1993481	42.3252	42.3
5	hexamethyldisiloxane(mm)	147	3.059	3.056	(1.065)	1603226	36.8065	36.8
* 6	Toluene-d8	98	5.149	5.157	(1.000)	1114634	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.602	7.599	(1.476)	1179534	44.3971	44.4
* 8	4-Bromofluorobenzene	174	8.378	8.385	(1.000)	365093	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.092	9.099	(1.085)	1318139	42.5148	42.5
10	deca-m-cyclopentasiloxane(d5)	267	10.592	10.600	(1.264)	481116	48.3344	48.3
165	Dodeca-mcyclohexasiloxane(d6)	341	11.948	11.945	(1.426)	347302	38.3147	38.3

Report Date: 26-May-2010 11:15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052605.d
Lab Smp Id: 1869-21-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k26may10.b/k10k0323.m
Misc Info:

Calibration Date: 26-MAY-2010
Calibration Time: 09:57
Client Smp ID: LCS
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1007421	503710	2014842	1131834	12.35
6 Toluene-d8	948941	474470	1897882	1114634	17.46
8 4-Bromofluorobenz	315762	157881	631524	365093	15.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	0.10
6 Toluene-d8	5.16	4.66	5.66	5.15	-0.14
8 4-Bromofluorobenz	8.39	7.89	8.89	8.38	-0.09

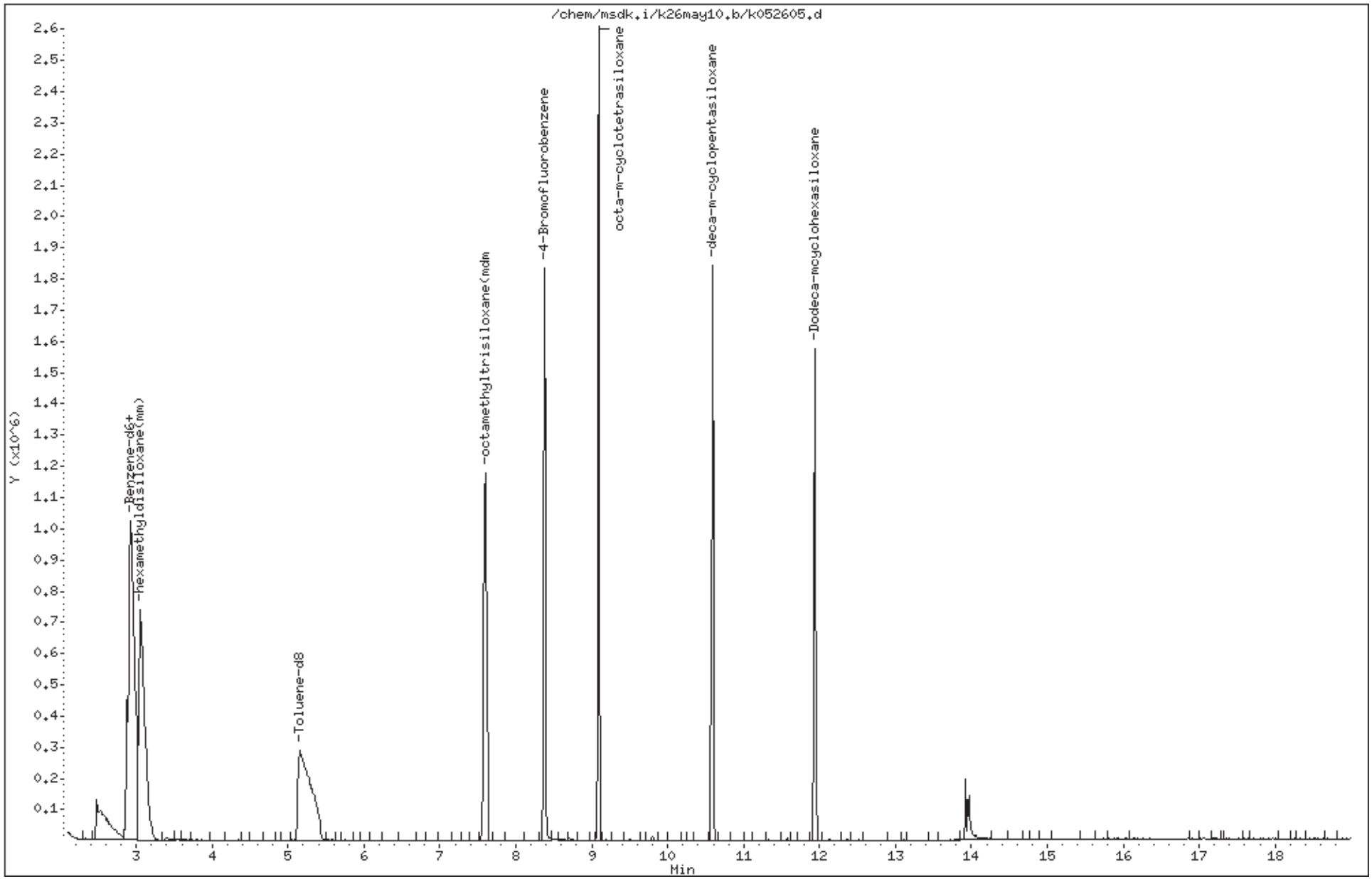
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdk.i/k26may10.b/k052605.d
Date : 26-MAY-2010 10:47
Client ID: LCS
Sample Info: ;1869-21-50;LCS

Column phase: DB-5.625

Instrument: msdk.i

Operator: LZ
Column diameter: 0.25



Data File: /chem/msdk.i/k26may10.b/k052605.d

Date : 26-MAY-2010 10:47

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

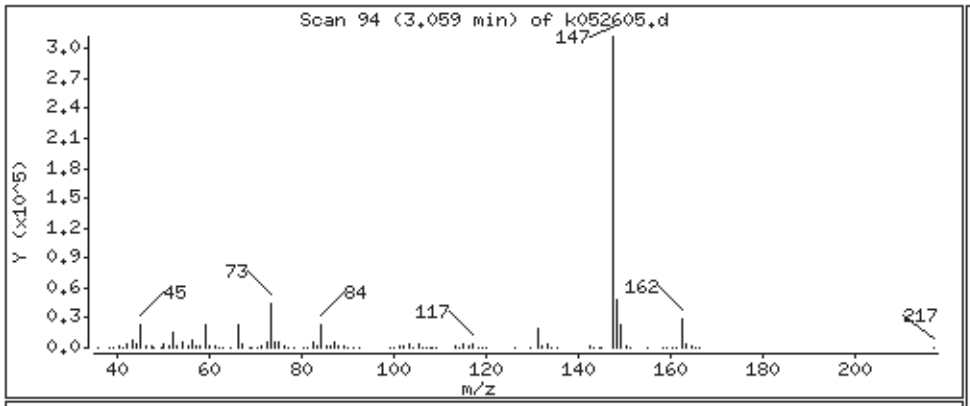
Operator: LZ

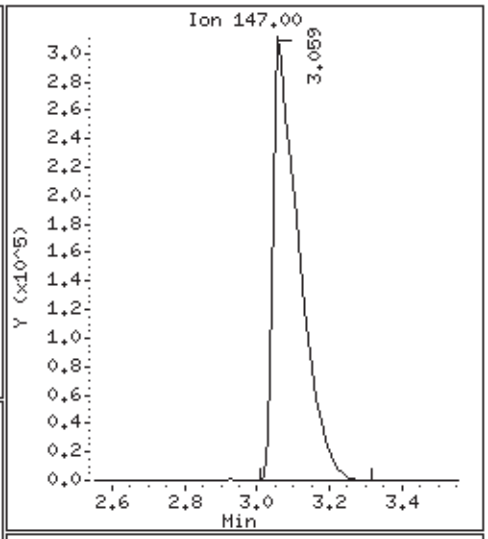
Column phase: DB-5.625

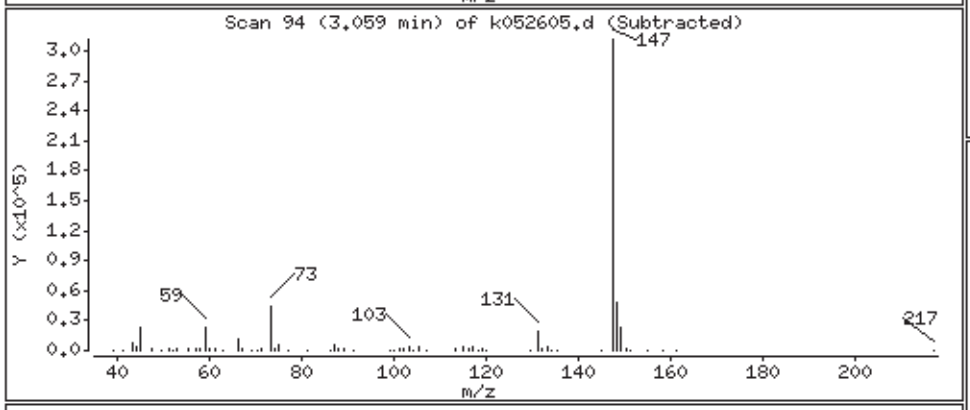
Column diameter: 0.25

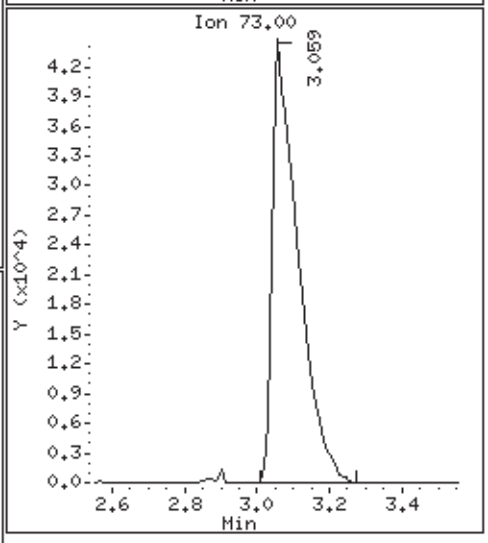
5 hexamethyldisiloxane(mm)

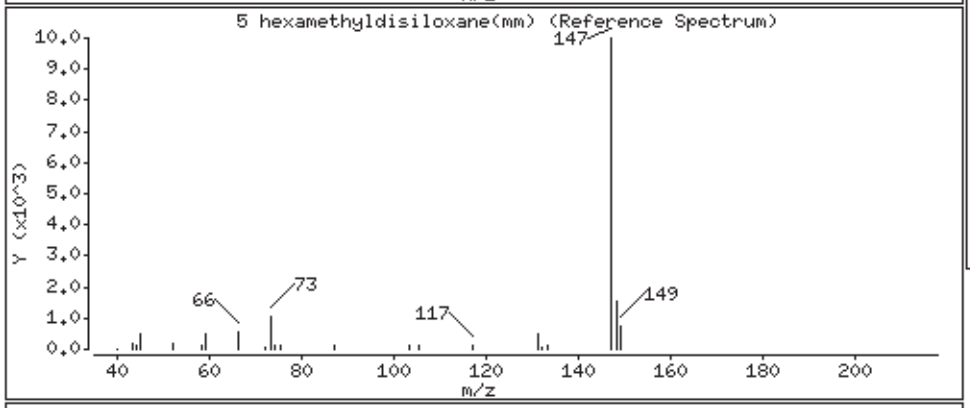
Concentration: 36.8 ug

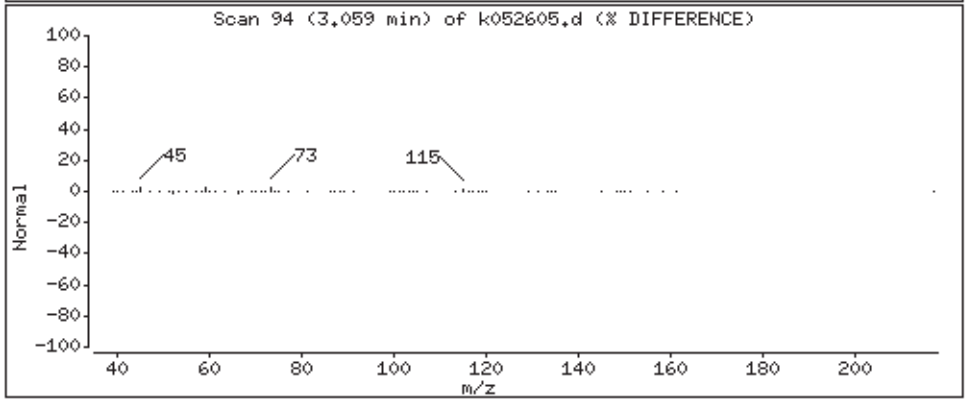












Data File: /chem/msdk.i/k26may10.b/k052605.d

Date : 26-MAY-2010 10:47

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

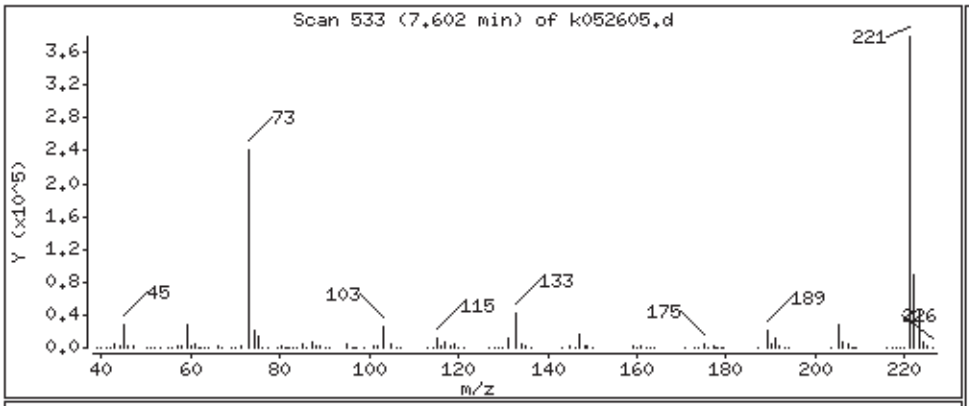
Operator: LZ

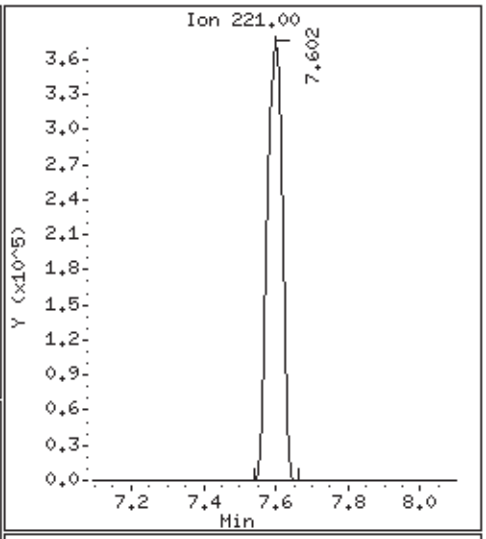
Column phase: DB-5.625

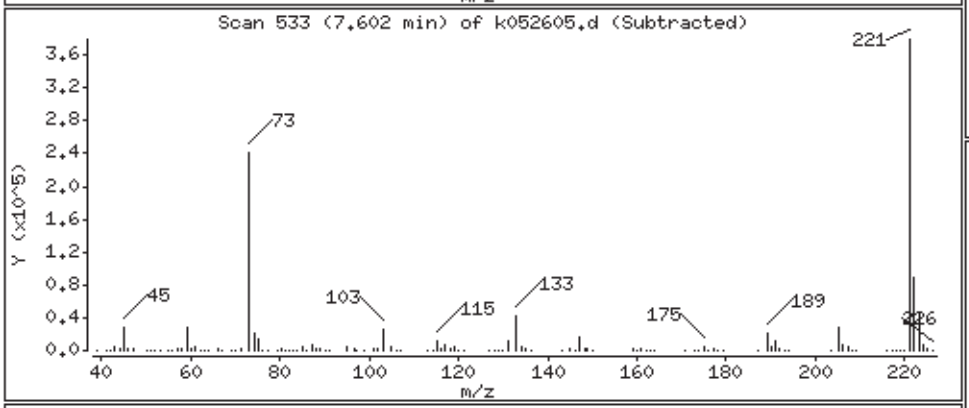
Column diameter: 0.25

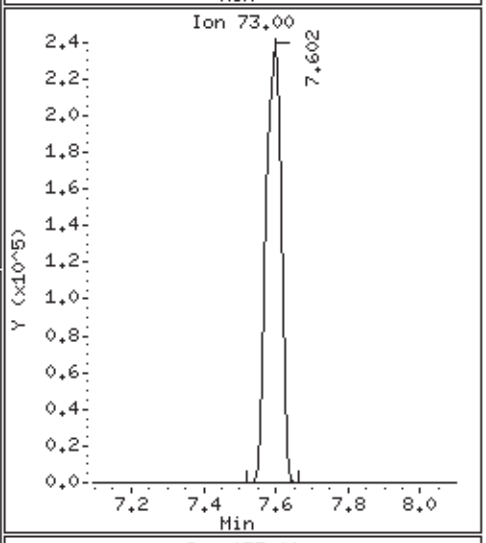
7 octamethyltrisiloxane(mdm)

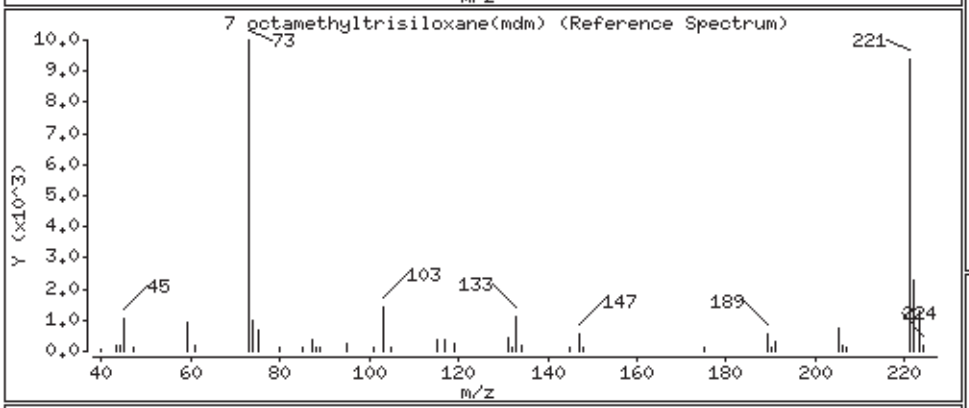
Concentration: 44.4 ug

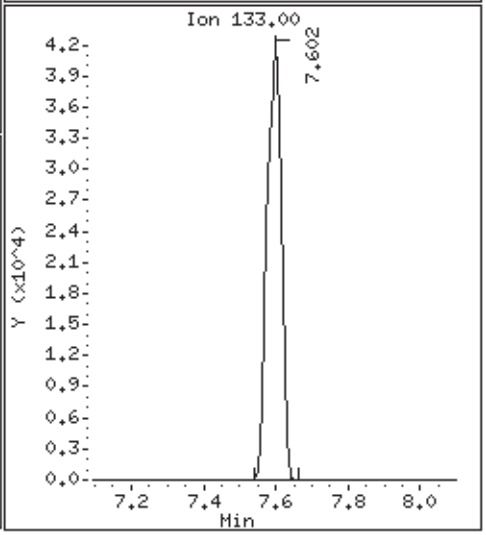


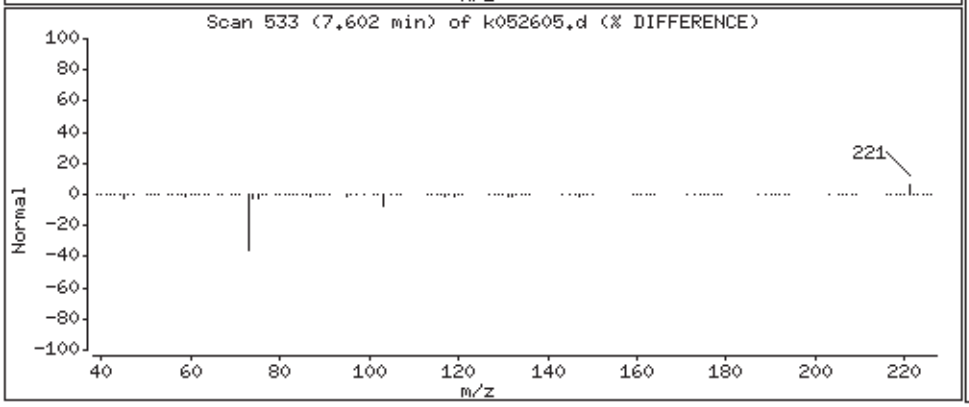












Data File: /chem/msdk.i/k26may10.b/k052605.d

Date : 26-MAY-2010 10:47

Client ID: LCS

Instrument: msdk.i

Sample Info: :1869-21-50:LCS

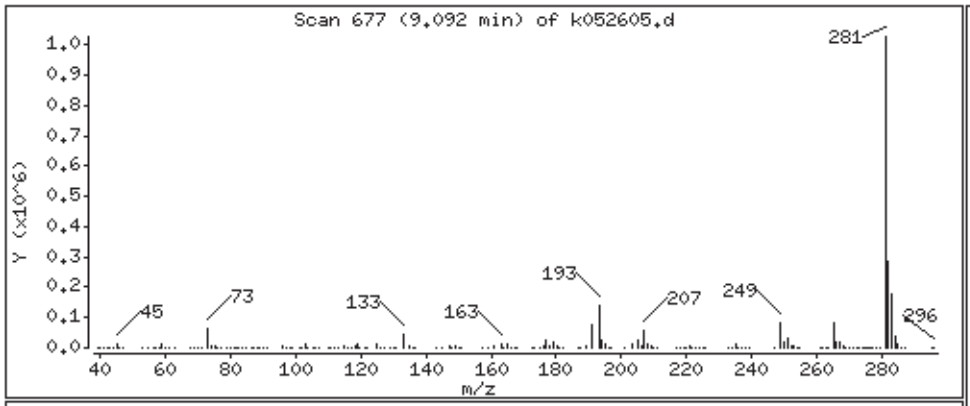
Operator: LZ

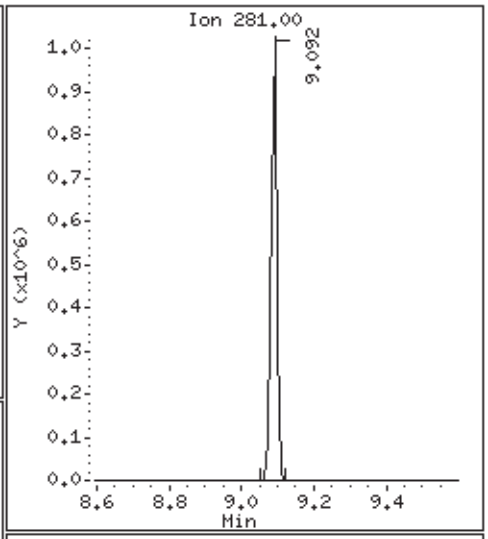
Column phase: DB-5.625

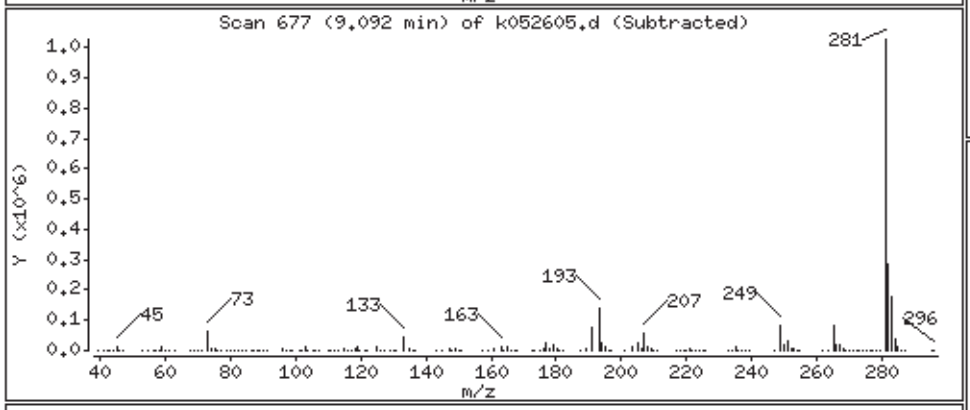
Column diameter: 0.25

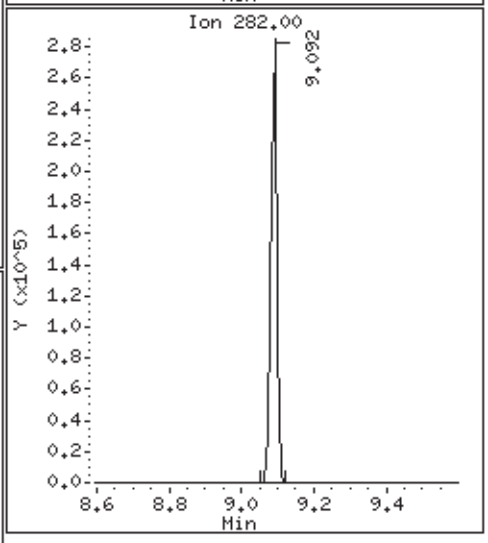
9 octa-m-cyclotetrasiloxane(d4)

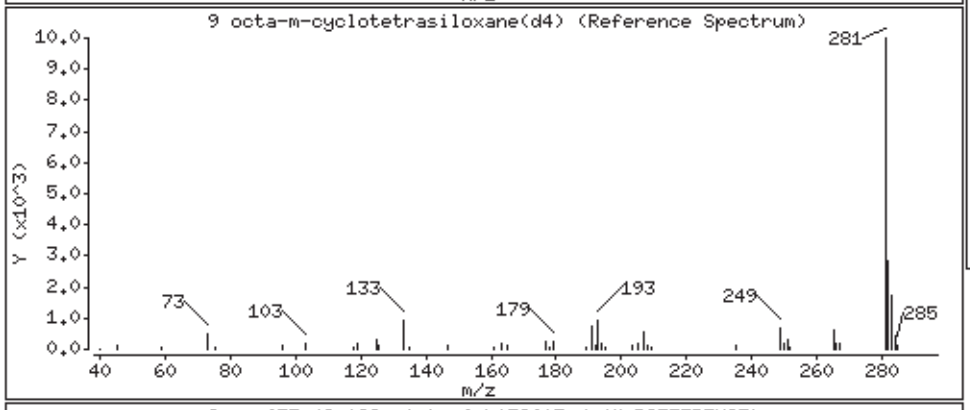
Concentration: 42.5 ug

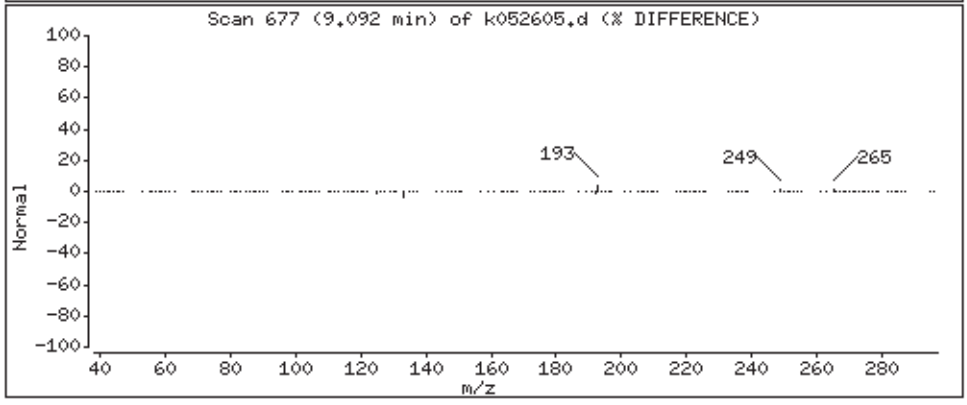












Data File: /chem/msdk.i/k26may10.b/k052605.d

Date : 26-MAY-2010 10:47

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

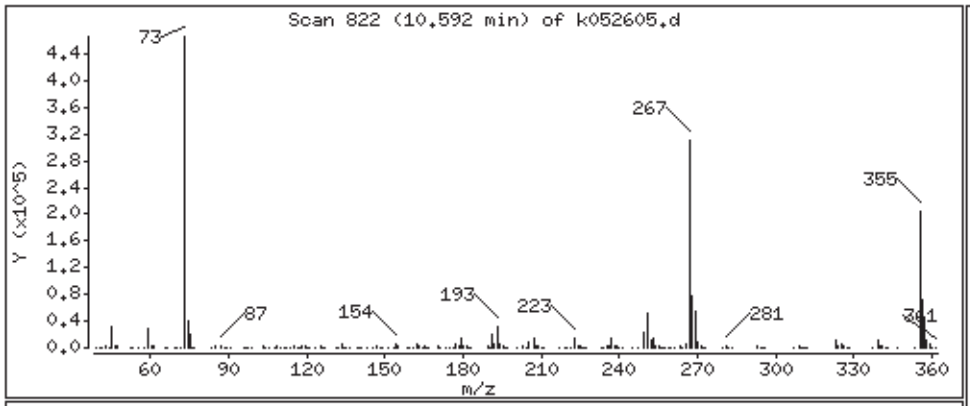
Operator: LZ

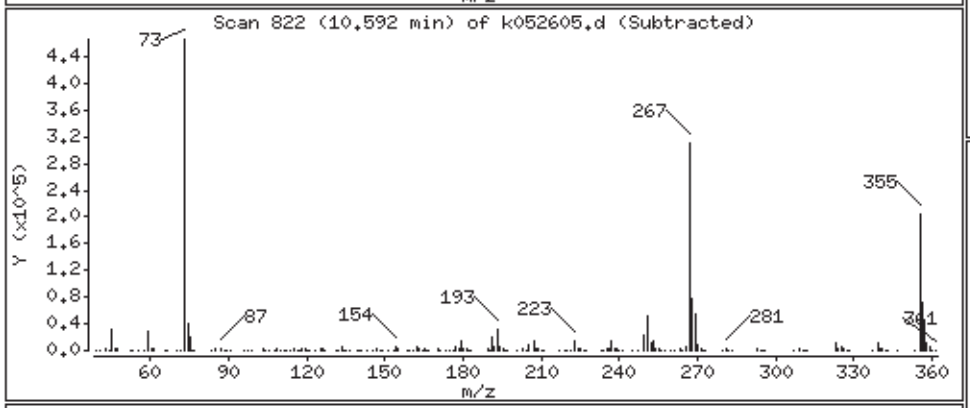
Column phase: DB-5.625

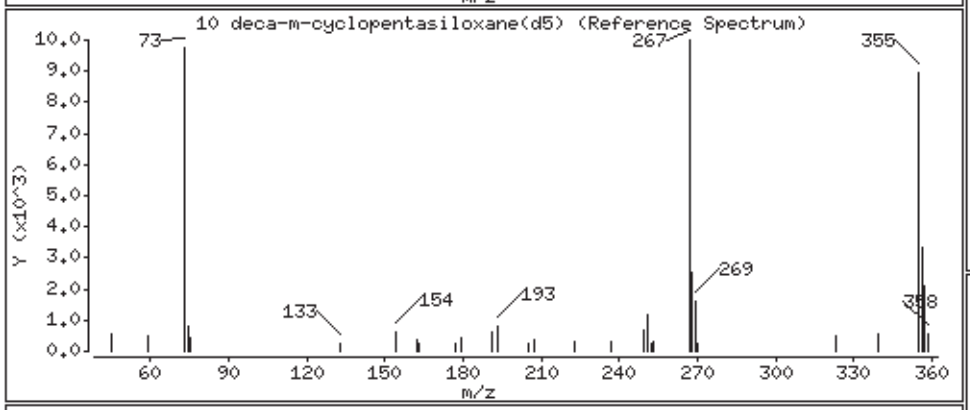
Column diameter: 0.25

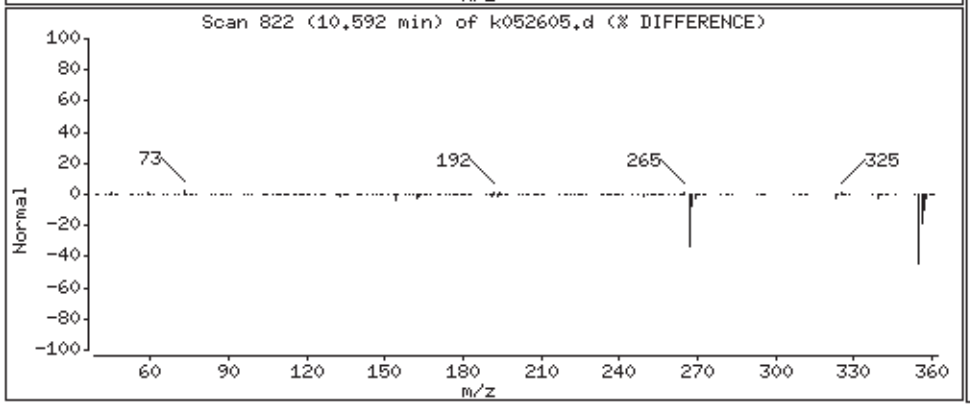
10 deca-m-cyclopentasiloxane(d5)

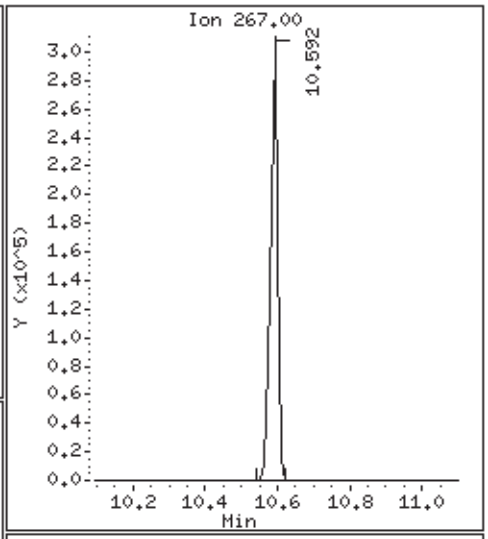
Concentration: 48.3 ug

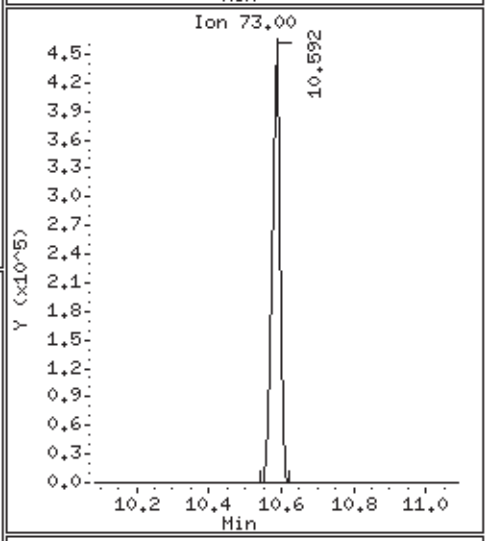


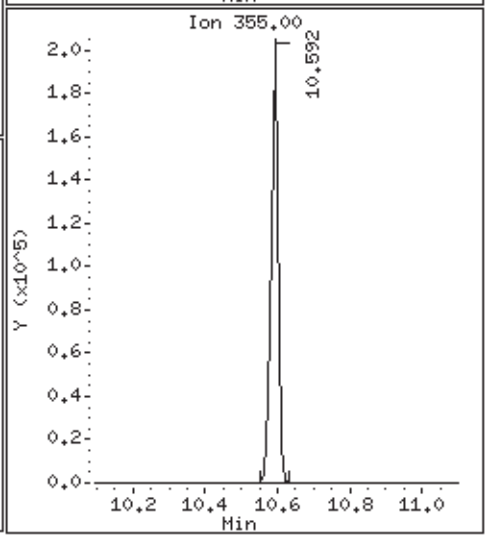












Data File: /chem/msdk.i/k26may10.b/k052605.d

Date : 26-MAY-2010 10:47

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

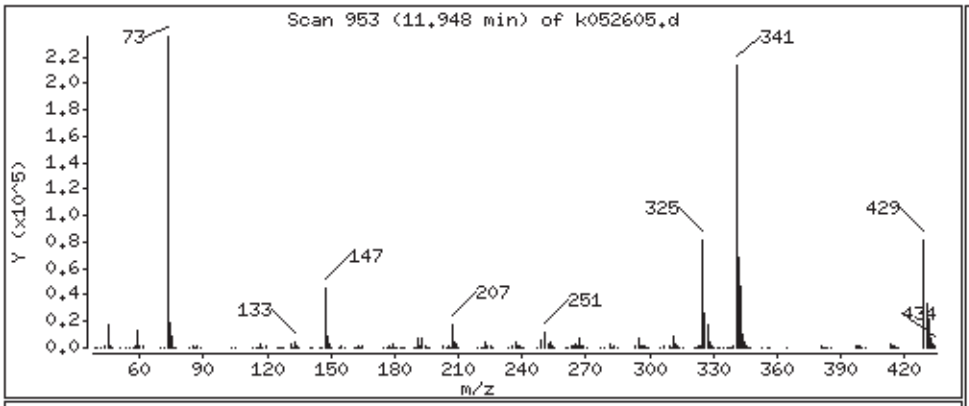
Operator: LZ

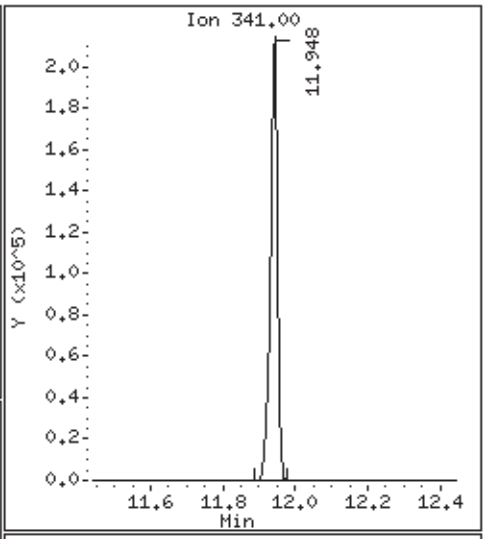
Column phase: DB-5.625

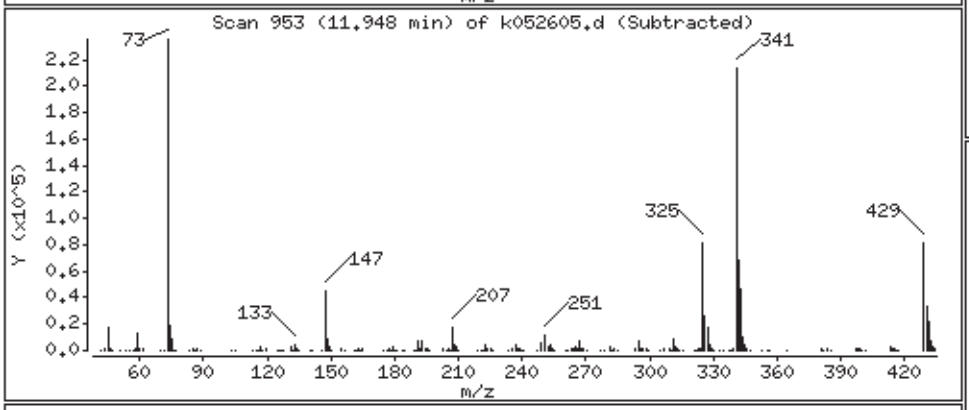
Column diameter: 0.25

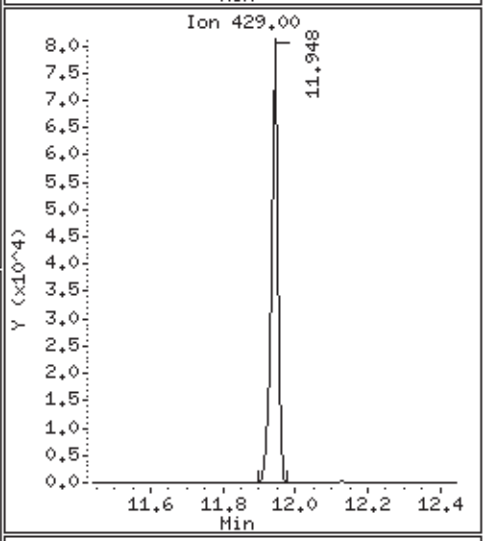
165 Dodeca-mcyclohexasiloxane(d6)

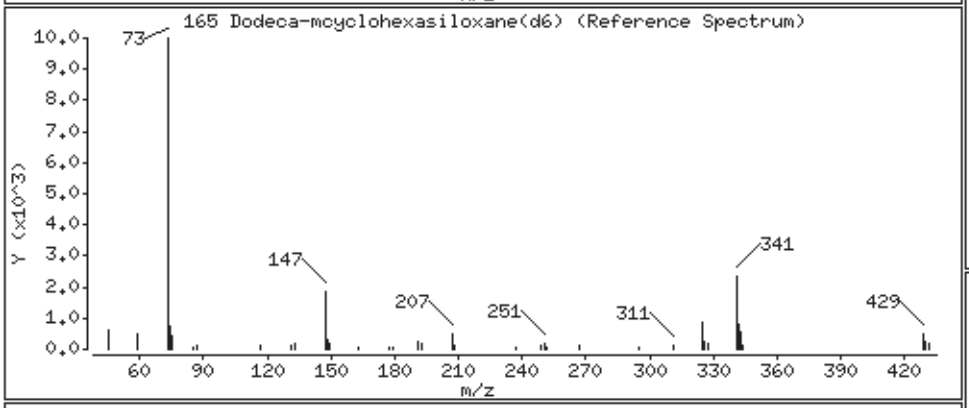
Concentration: 38.3 ug

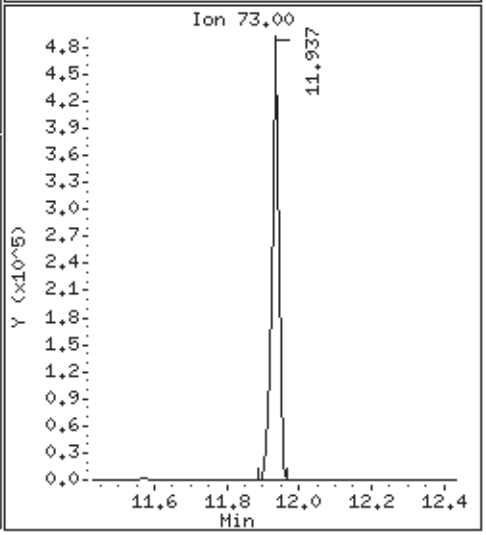


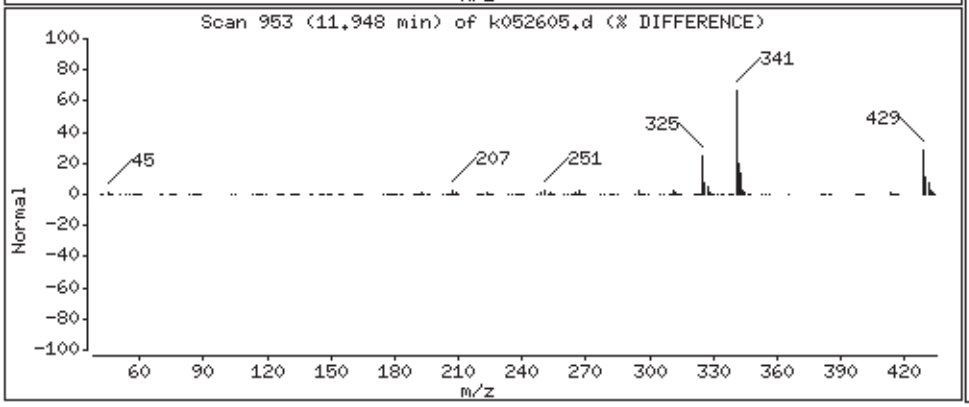












Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1005453C-34B

SILOXANES - GC/MS

File Name:	**k052809**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 12:23 PM**	

Compound	%Recovery
Octamethylcyclotetrasiloxane (D4)	89
Decamethylcylopentasiloxane (D5)	105
Dodecamethylcyclohexasiloxane (D6)	80
Hexamethyldisiloxane	75
Octamethyltrisiloxane	96

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	108	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Level: MED Operator: LZ
Data Type: MS DATA SampleType: LCS
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	37.4	74.83	70-130
7 octamethyltrisilox	50.0	48.2	96.31	70-130
9 octa-m-cyclotetras	50.0	44.5	88.97	70-130
10 deca-m-cyclopentas	50.0	52.3	104.59	70-130
165 Dodeca-mcyclohexas	50.0	39.9	79.90	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	43.3	108.25	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10.b/k052809.d
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Inj Date : 28-MAY-2010 12:23
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-21-50;LCS
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10.b/k10k0323.m
Meth Date : 28-May-2010 12:24 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.880	2.872	(1.000)	969586	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.932	2.924	(1.018)	1747063	43.3004	43.3
5	hexamethyldisiloxane(mm)	147	3.066	3.058	(1.065)	1396155	37.4162	37.4
* 6	Toluene-d8	98	5.146	5.148	(1.000)	941641	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.599	7.601	(1.477)	1080834	48.1560	48.2
* 8	4-Bromofluorobenzene	174	8.375	8.377	(1.000)	331791	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.089	9.091	(1.085)	1253430	44.4855	44.5
10	deca-m-cyclopentasiloxane(d5)	267	10.589	10.581	(1.264)	473050	52.2942	52.3
165	Dodeca-mcyclohexasiloxane(d6)	341	11.934	11.937	(1.425)	329084	39.9489	39.9

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052809.d
Lab Smp Id: 1869-21-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 11:58
Client Smp ID: LCS
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	819981	409990	1639962	969586	18.24
6 Toluene-d8	797846	398923	1595692	941641	18.02
8 4-Bromofluorobenz	279522	139761	559044	331791	18.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.88	0.28
6 Toluene-d8	5.15	4.65	5.65	5.15	-0.04
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdk.i/k28may10.b/k052809.d

Date : 28-MAY-2010 12:23

Client ID: LCS

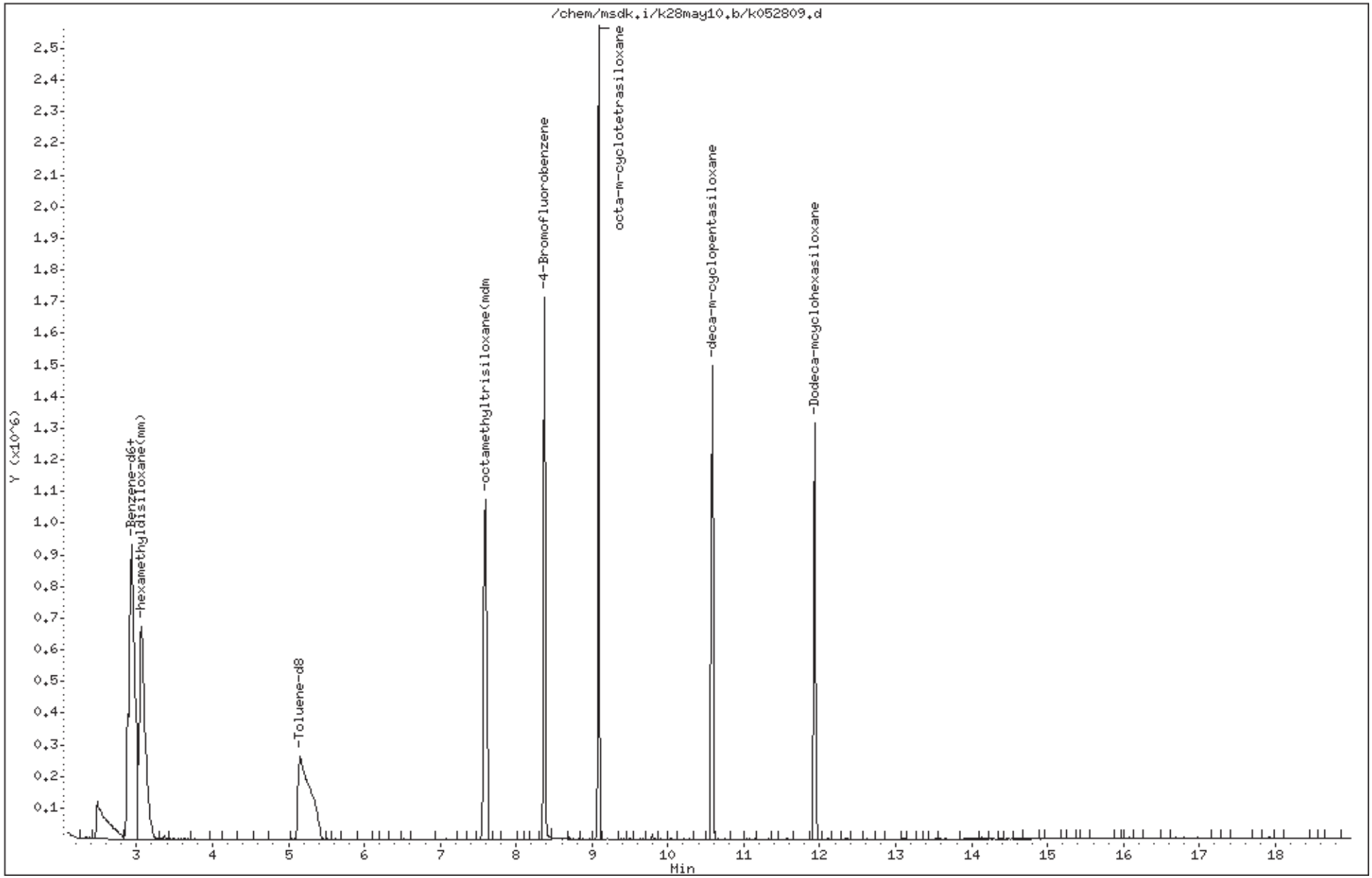
Sample Info: ;1869-21-50;LCS

Column phase: DB-5.625

Instrument: msdk.i

Operator: LZ

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052809.d

Date : 28-MAY-2010 12:23

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

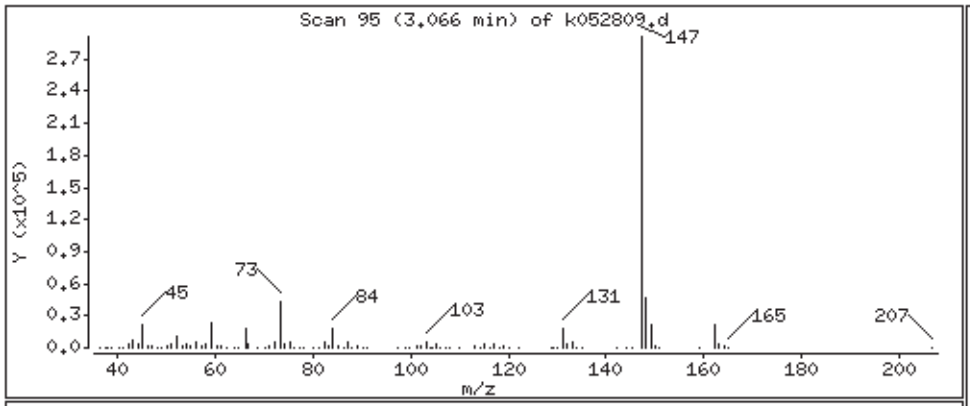
Operator: LZ

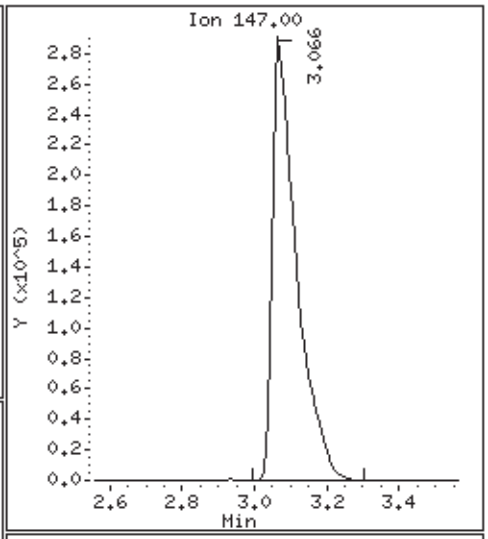
Column phase: DB-5.625

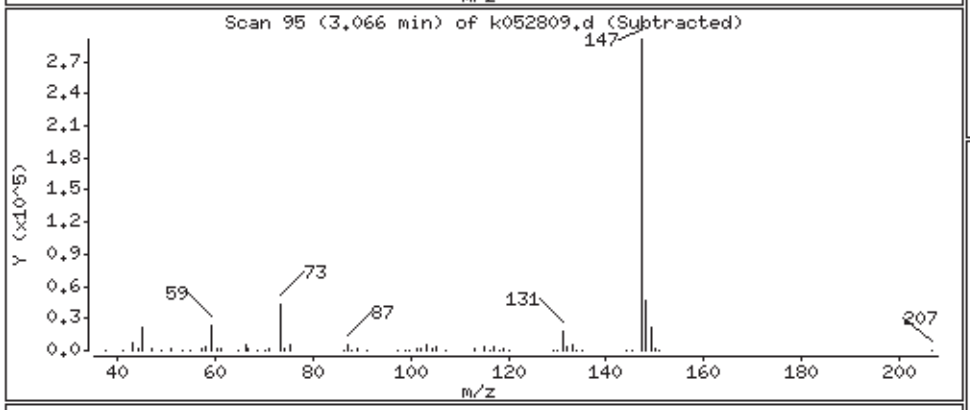
Column diameter: 0.25

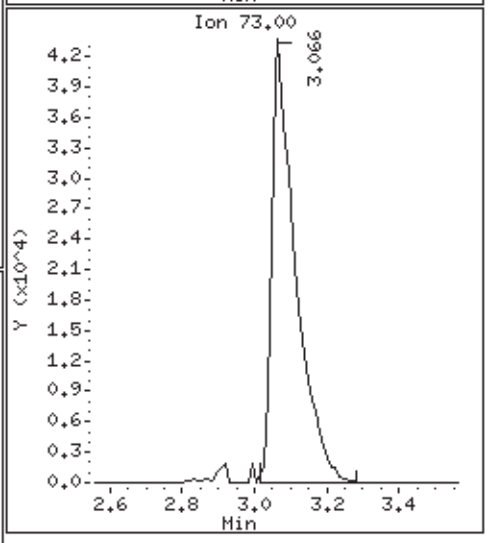
5 hexamethyldisiloxane(mm)

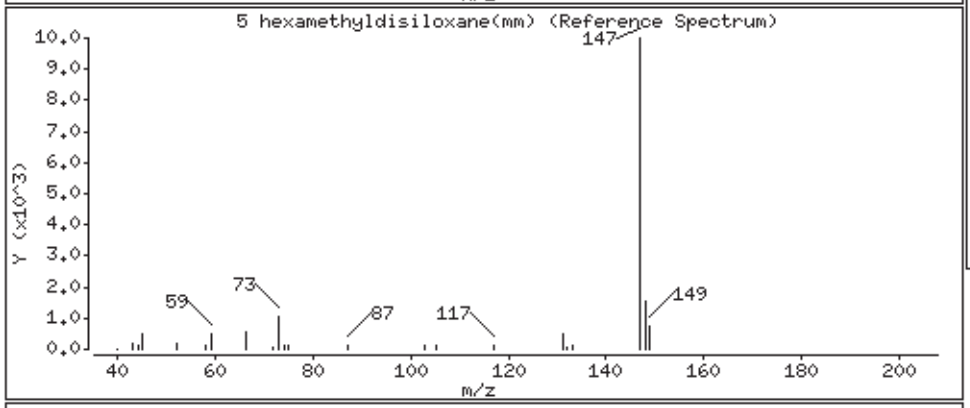
Concentration: 37.4 ug

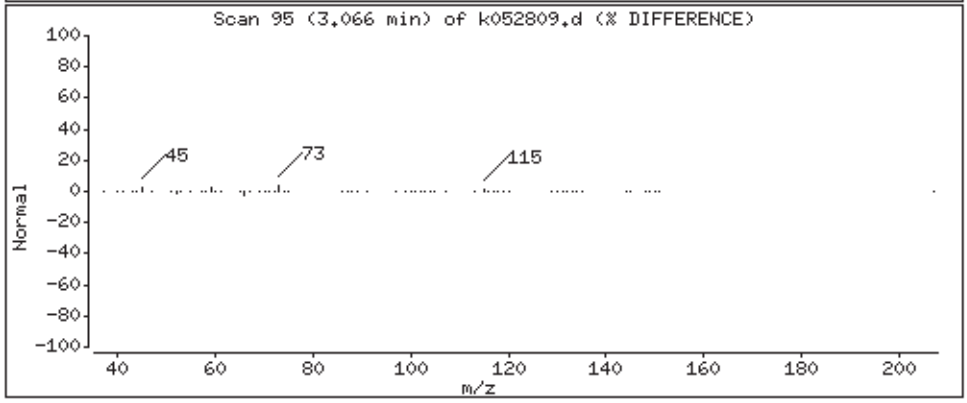












Data File: /chem/msdk.i/k28may10.b/k052809.d

Date : 28-MAY-2010 12:23

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

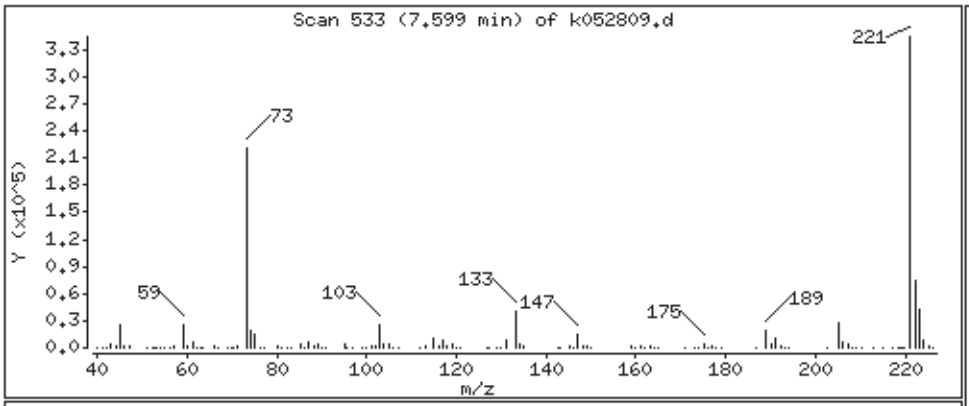
Operator: LZ

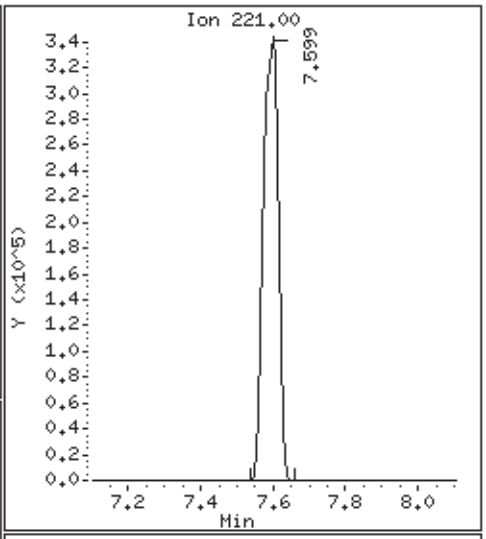
Column phase: DB-5.625

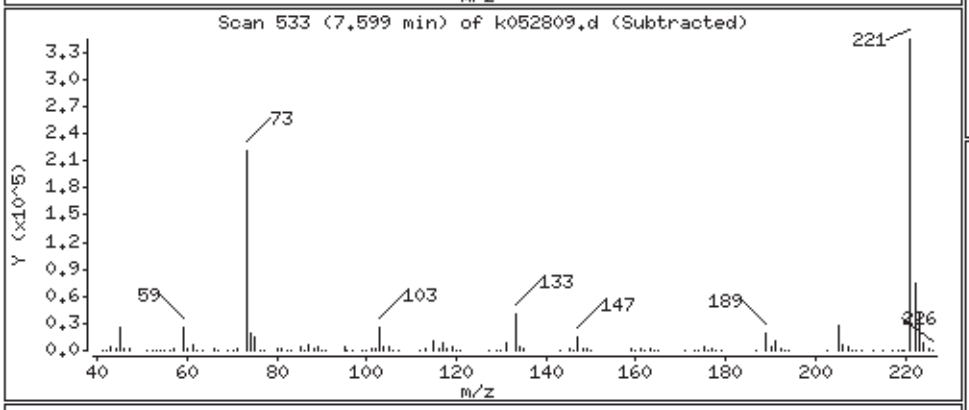
Column diameter: 0.25

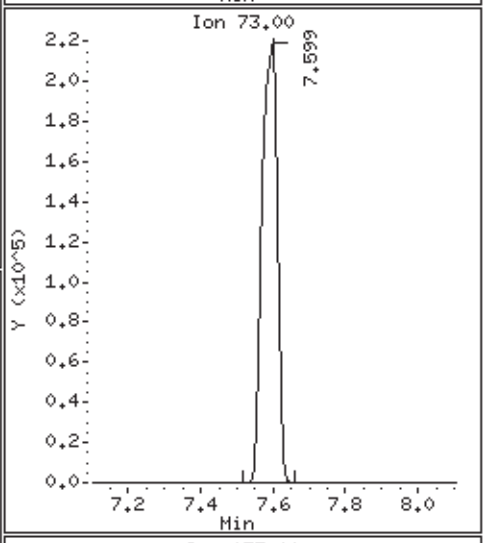
7 octamethyltrisiloxane(mdm)

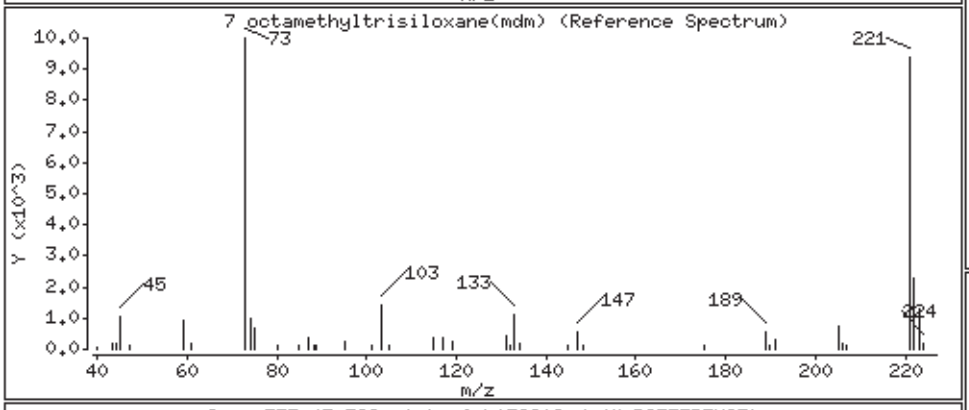
Concentration: 48.2 ug

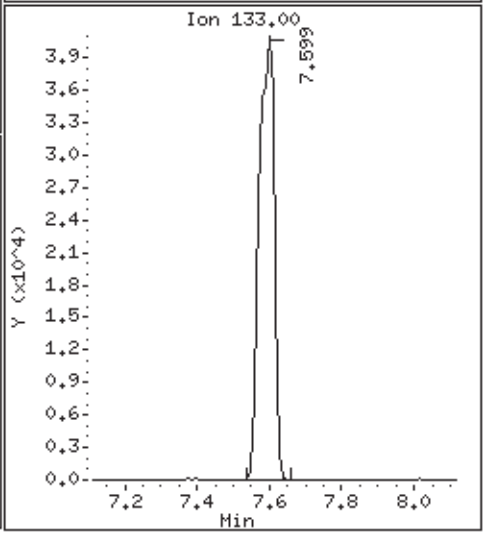


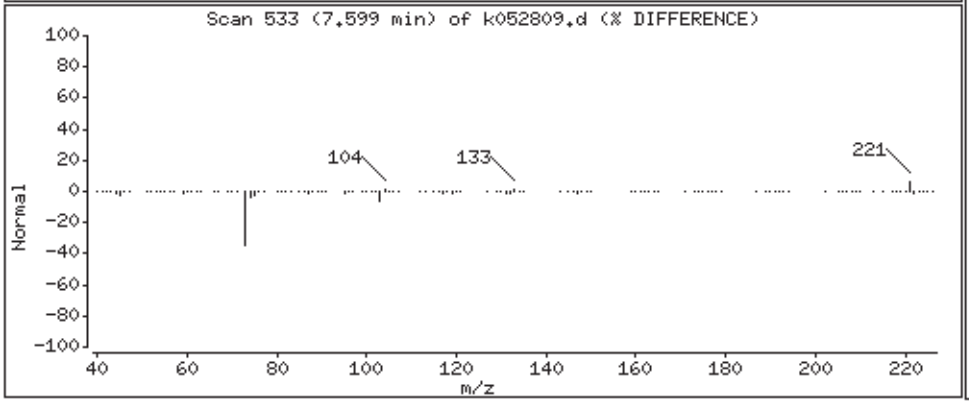












Data File: /chem/msdk.i/k28may10.b/k052809.d

Date : 28-MAY-2010 12:23

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

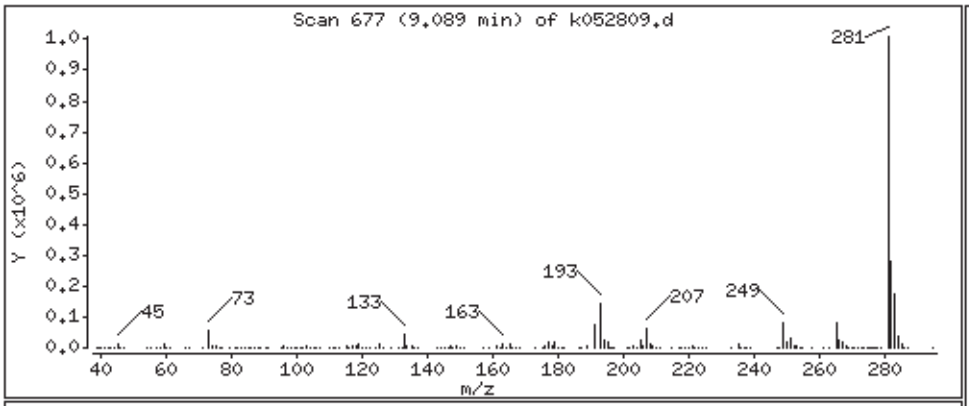
Operator: LZ

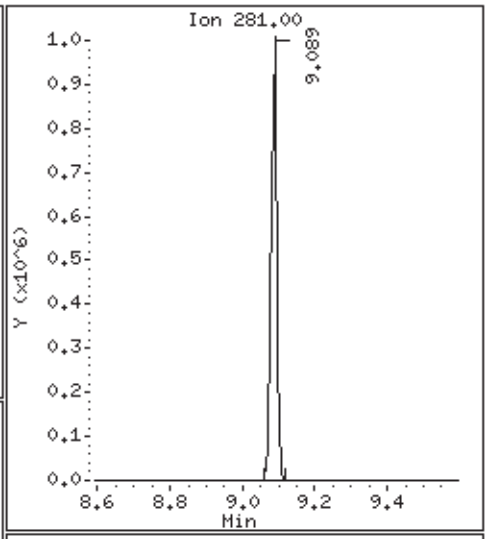
Column phase: DB-5.625

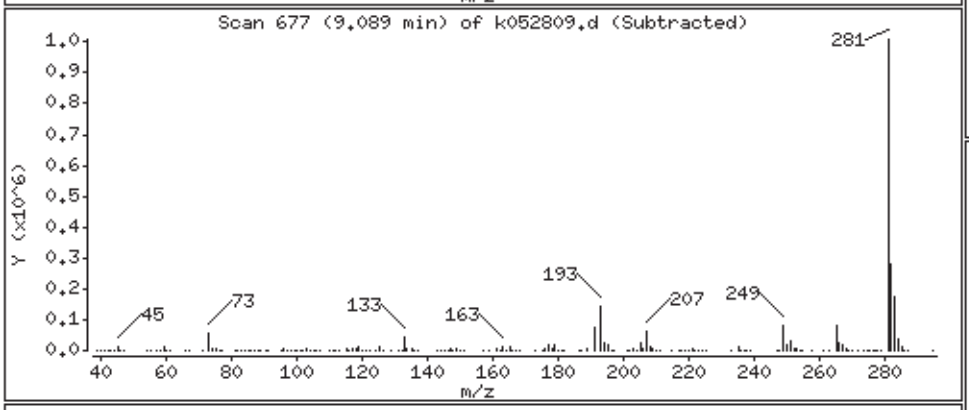
Column diameter: 0.25

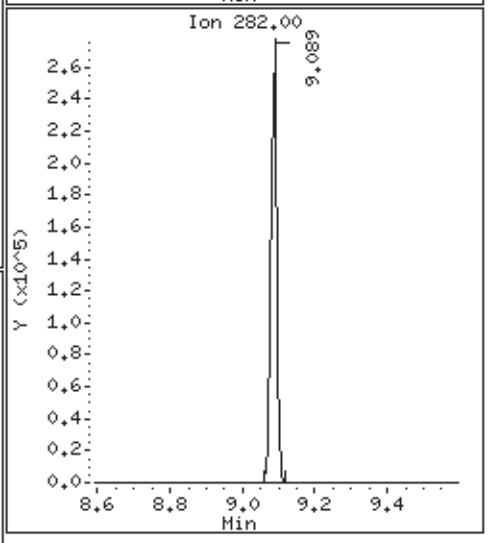
9 octa-m-cyclotetrasiloxane(d4)

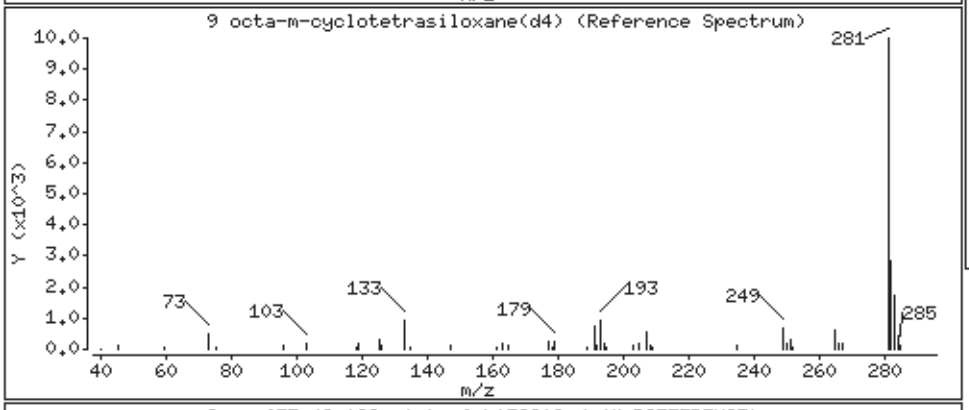
Concentration: 44.5 ug

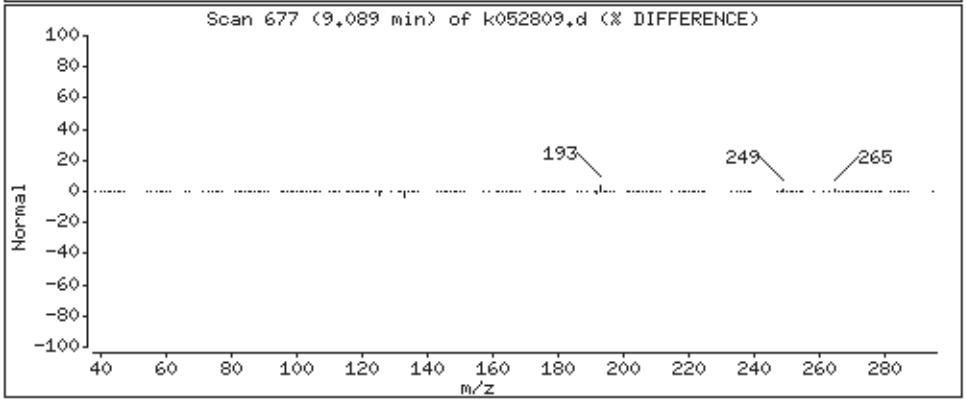












Data File: /chem/msdk.i/k28may10.b/k052809.d

Date : 28-MAY-2010 12:23

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

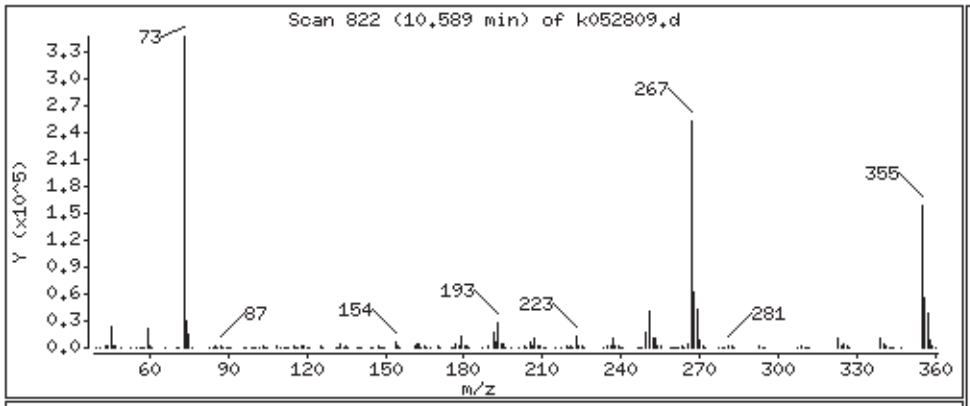
Operator: LZ

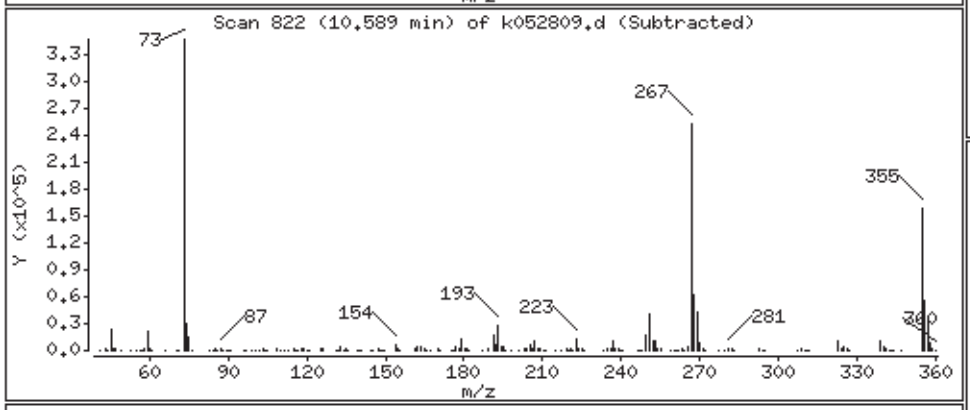
Column phase: DB-5.625

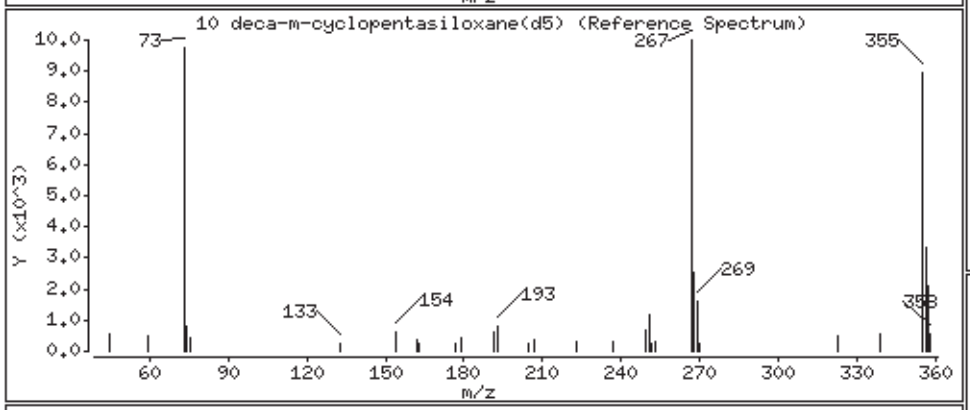
Column diameter: 0.25

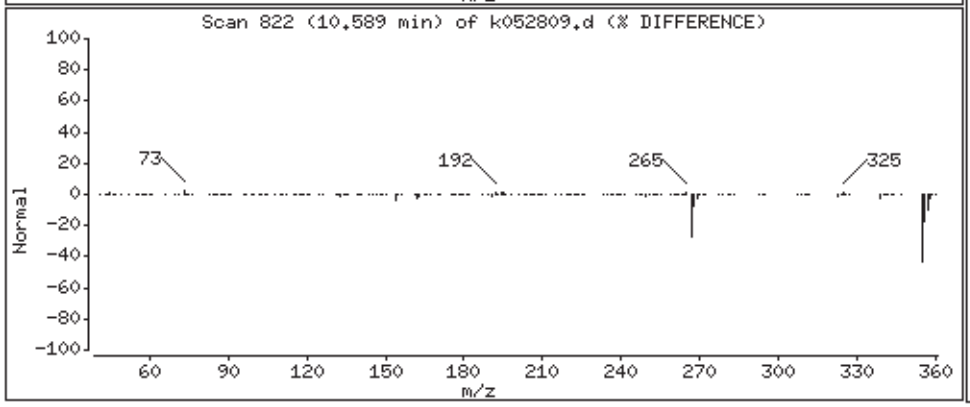
10 deca-m-cyclopentasiloxane(d5)

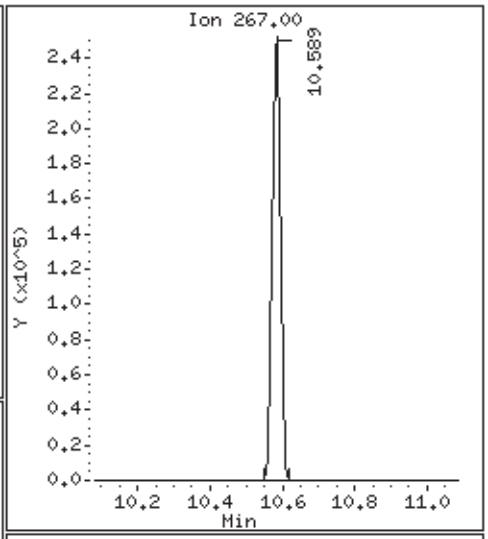
Concentration: 52.3 ug

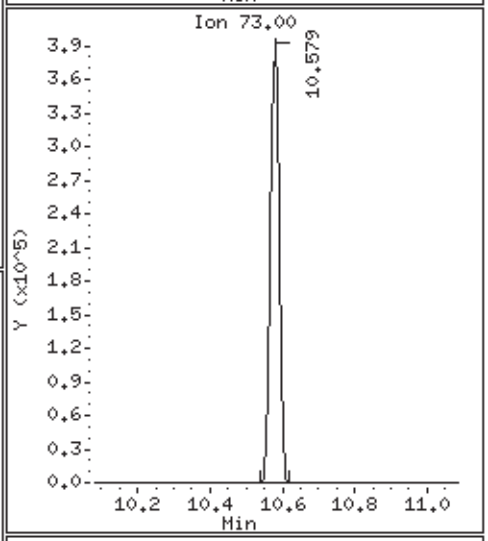


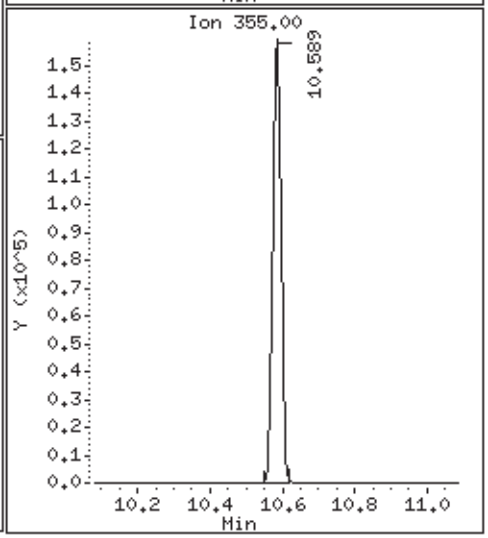












Data File: /chem/msdk.i/k28may10.b/k052809.d

Date : 28-MAY-2010 12:23

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

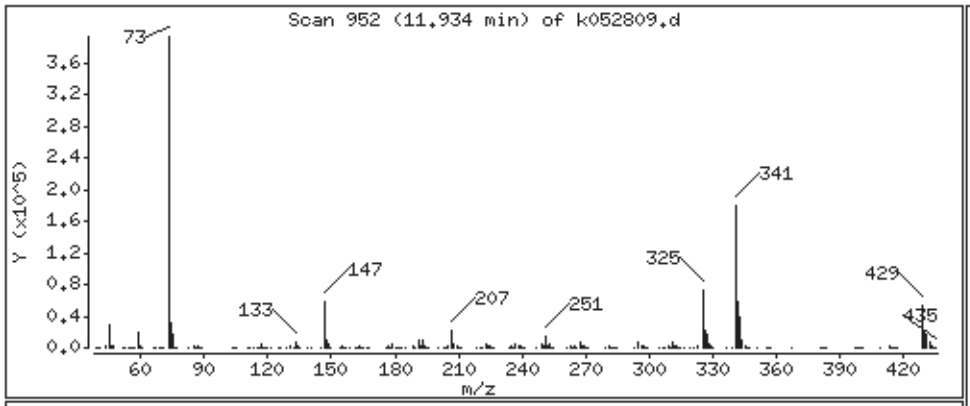
Operator: LZ

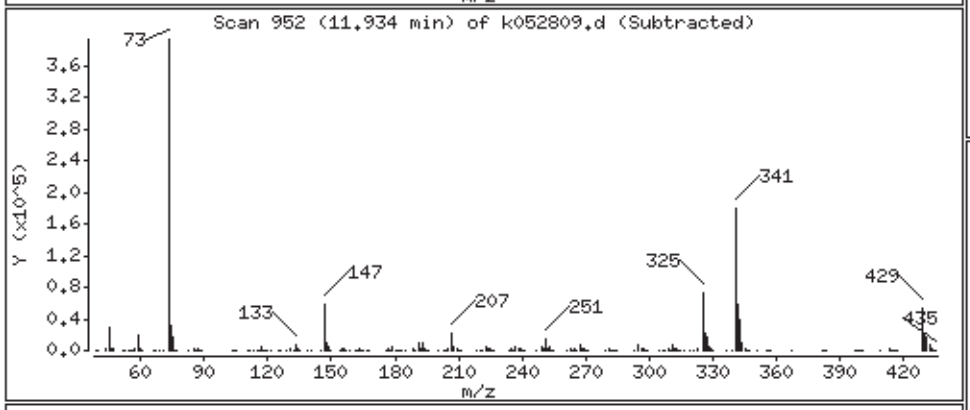
Column phase: DB-5.625

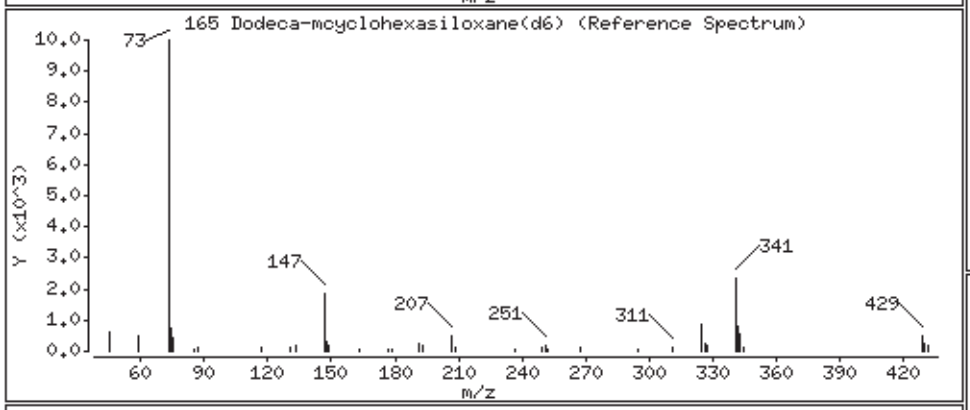
Column diameter: 0.25

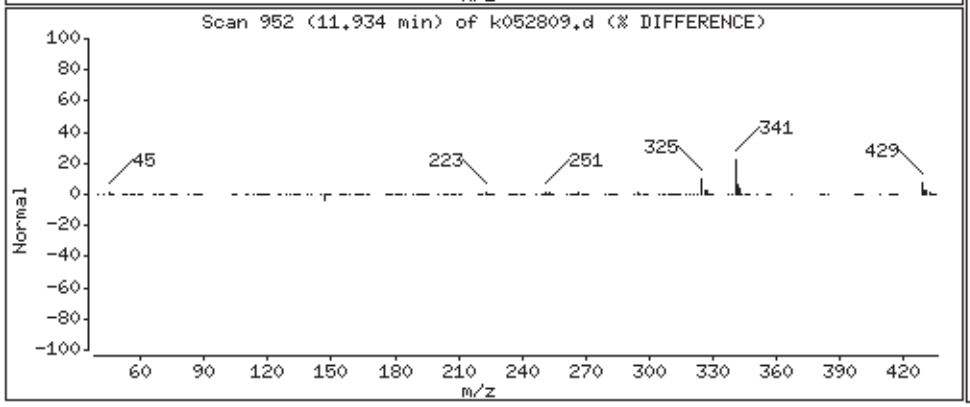
165 Dodeca-mcyclohexasiloxane(d6)

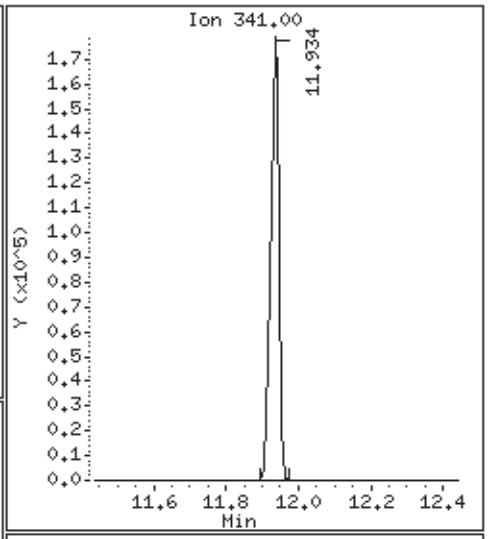
Concentration: 39.9 ug

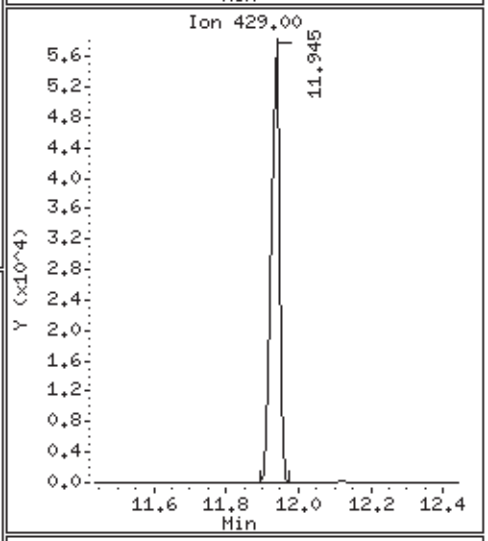


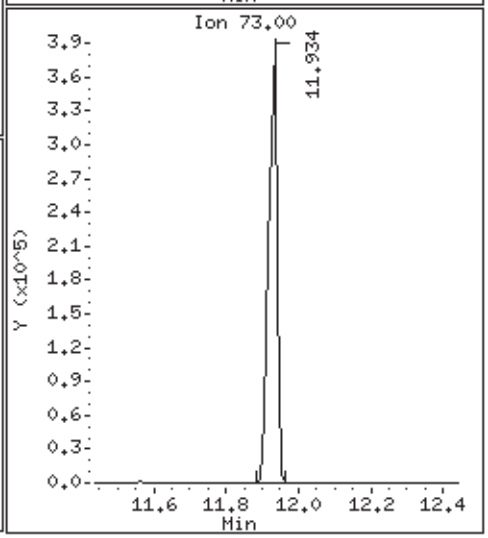












Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1005453C-34C
SILOXANES - GC/MS

File Name:	**k052829**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 08:25 PM**	

Compound	%Recovery
Octamethylcyclotetrasiloxane (D4)	89
Decamethylcylopentasiloxane (D5)	102
Dodecamethylcyclohexasiloxane (D6)	77
Hexamethyldisiloxane	71
Octamethyltrisiloxane	92

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	103	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k28may10a
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Level: MED Operator: LZ
Data Type: MS DATA SampleType: LCS
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	35.7	71.41	70-130
7 octamethyltrisilox	50.0	46.2	92.41	70-130
9 octa-m-cyclotetras	50.0	44.5	89.06	70-130
10 deca-m-cyclopentas	50.0	51.2	102.31	70-130
165 Dodeca-mcyclohexas	50.0	38.4	76.91	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	41.1	102.81	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /chem/msdk.i/k28may10a.b/k052829.d
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Inj Date : 28-MAY-2010 20:25
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-21-50;LCS
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /chem/msdk.i/k28may10a.b/k10k0323.m
Meth Date : 28-May-2010 20:50 atoyama Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
* 3	Benzene-d6	84	2.880	2.881	(1.000)	949186	40.0000	
$ 4	Hexamethyldisiloxane-d18	162	2.931	2.933	(1.018)	1624338	41.1240	41.1
5	hexamethyldisiloxane(mm)	147	3.066	3.068	(1.065)	1304199	35.7031	35.7
* 6	Toluene-d8	98	5.156	5.158	(1.000)	891976	40.0000	
7	octamethyltrisiloxane(mdm)	221	7.598	7.600	(1.474)	982338	46.2045	46.2
* 8	4-Bromofluorobenzene	174	8.374	8.376	(1.000)	305819	40.0000	
9	octa-m-cyclotetrasiloxane(d4)	281	9.088	9.080	(1.085)	1156520	44.5319	44.5
10	deca-m-cyclopentasiloxane(d5)	267	10.589	10.591	(1.264)	426510	51.1535	51.2
165	Dodeca-mcyclohexasiloxane(d6)	341	11.934	11.936	(1.425)	291997	38.4571	38.4

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052829.d
Lab Smp Id: 1869-21-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /chem/msdk.i/k28may10a.b/k10k0323.m
Misc Info:

Calibration Date: 28-MAY-2010
Calibration Time: 19:59
Client Smp ID: LCS
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	767574	383787	1535148	949186	23.66
6 Toluene-d8	708584	354292	1417168	891976	25.88
8 4-Bromofluorobenz	250041	125020	500082	305819	22.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.88	2.38	3.38	2.88	-0.07
6 Toluene-d8	5.16	4.66	5.66	5.16	-0.04
8 4-Bromofluorobenz	8.38	7.88	8.88	8.37	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdk.i/k28may10a.b/k052829.d

Page 1

Date : 28-MAY-2010 20:25

Client ID: LCS

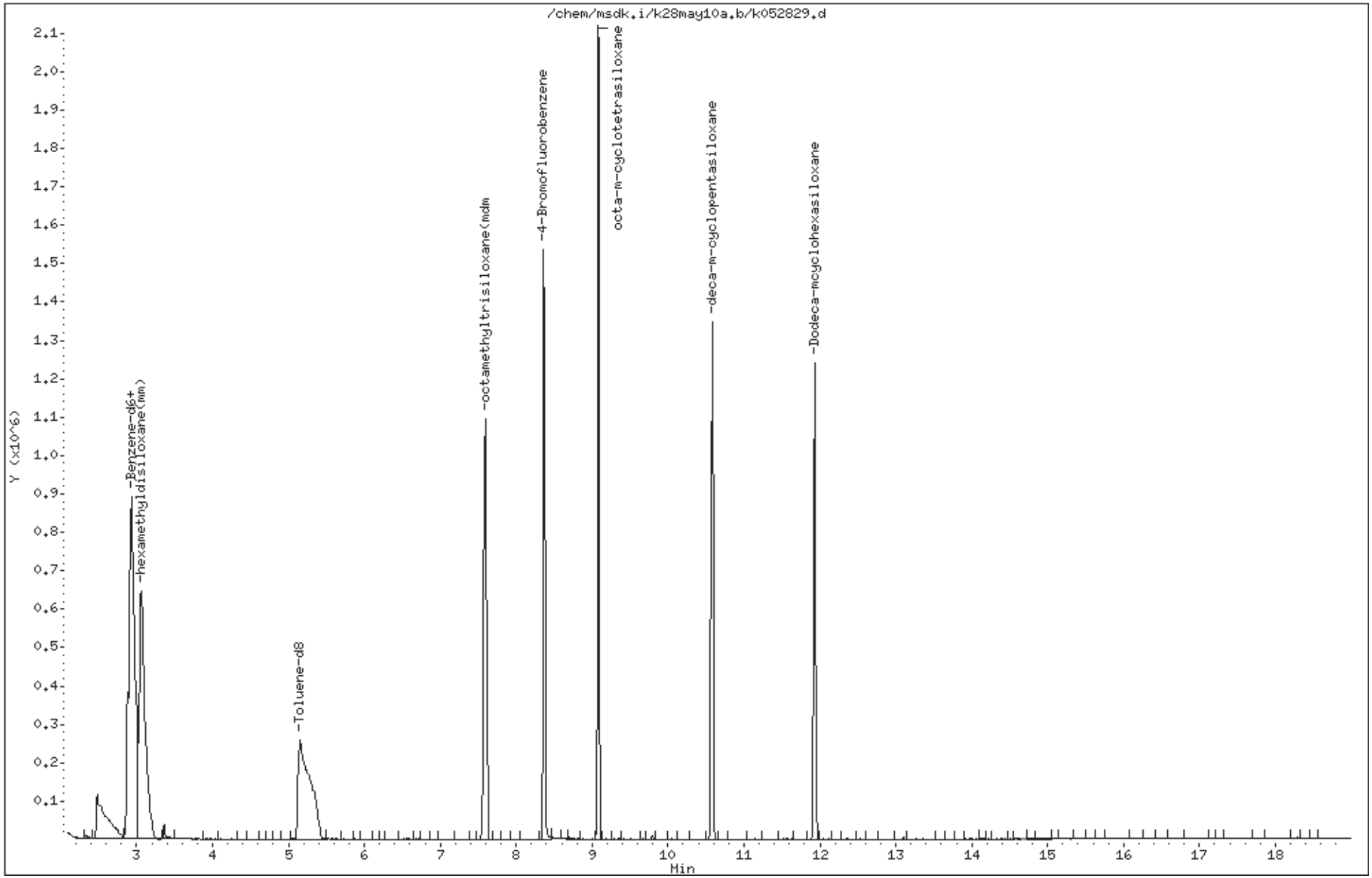
Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052829.d

Date : 28-MAY-2010 20:25

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

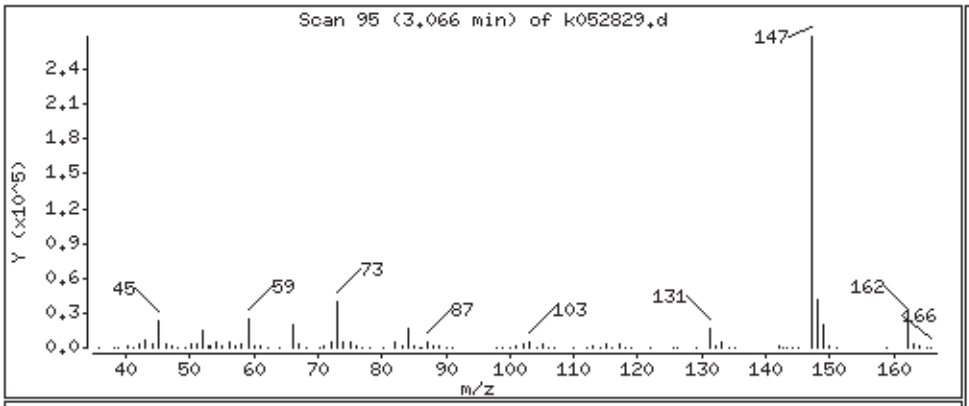
Operator: LZ

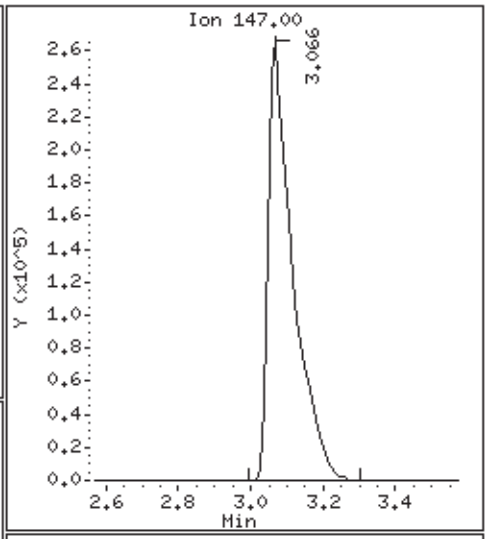
Column phase: DB-5.625

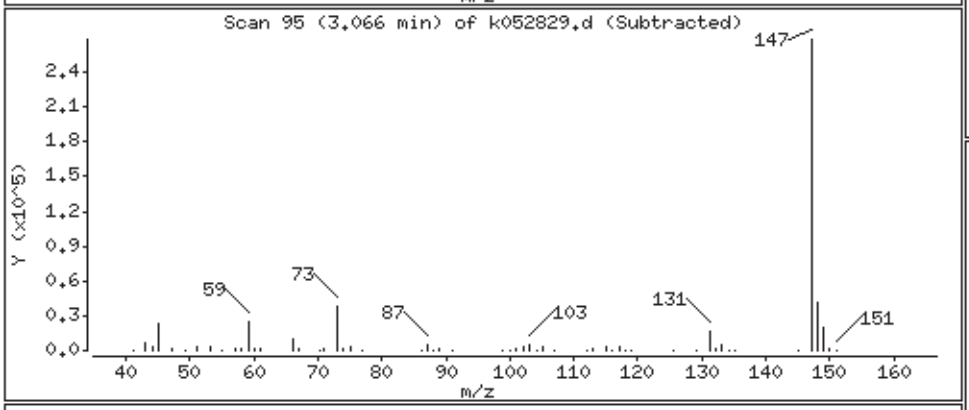
Column diameter: 0.25

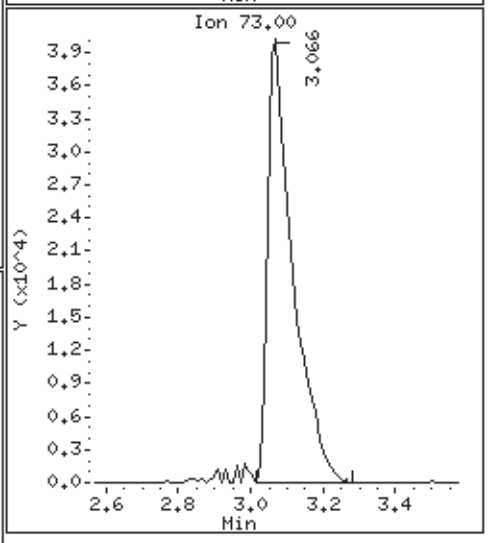
5 hexamethyldisiloxane(mm)

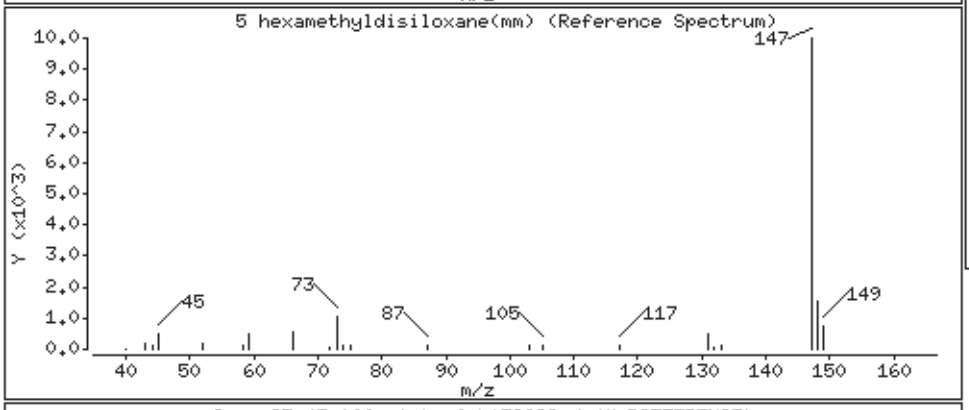
Concentration: 35.7 ug

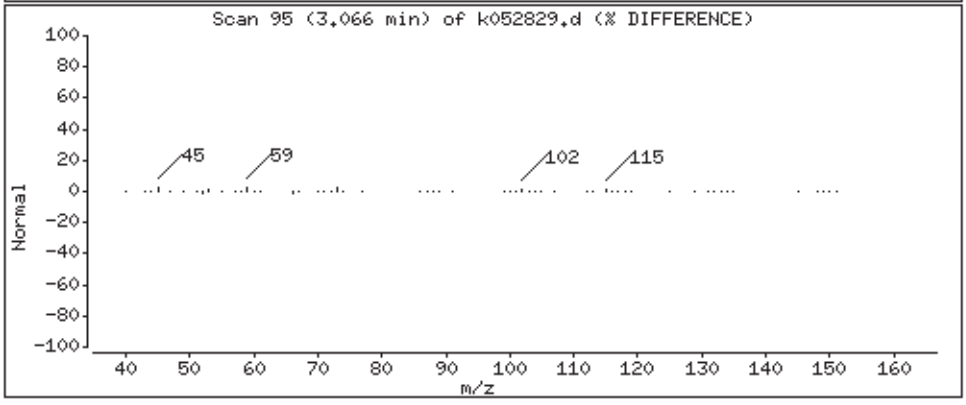












Data File: /chem/msdk.i/k28may10a.b/k052829.d

Date : 28-MAY-2010 20:25

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

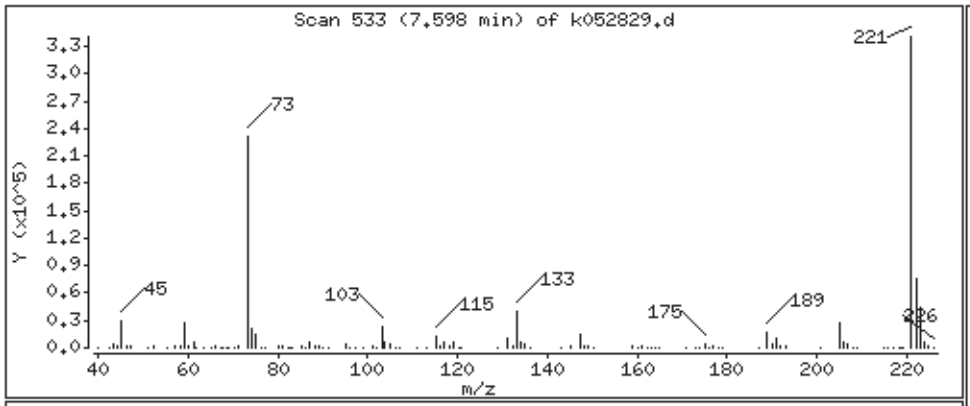
Operator: LZ

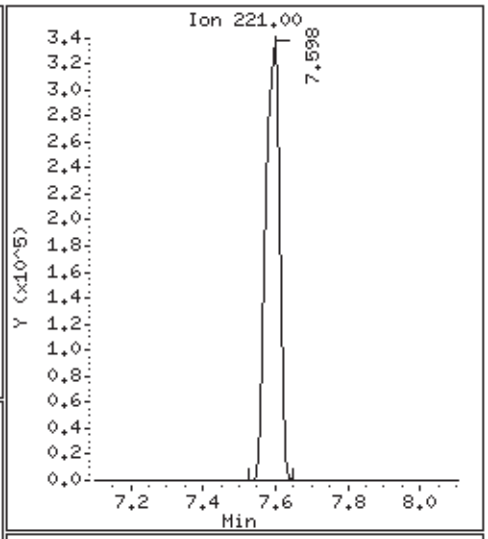
Column phase: DB-5.625

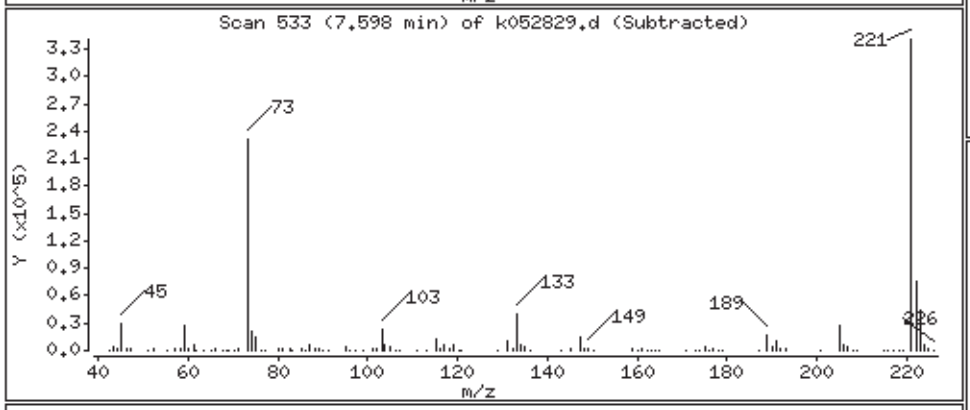
Column diameter: 0.25

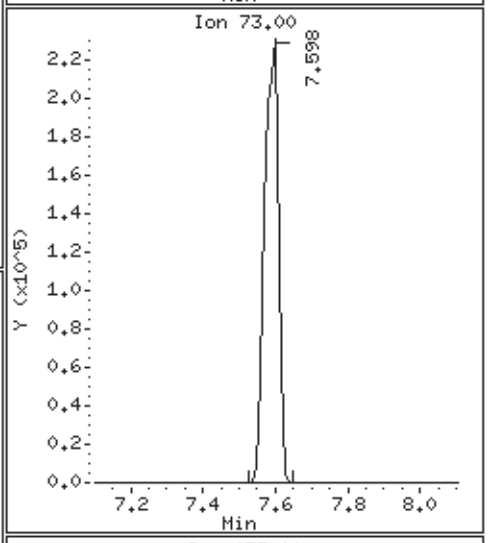
7 octamethyltrisiloxane(mdm)

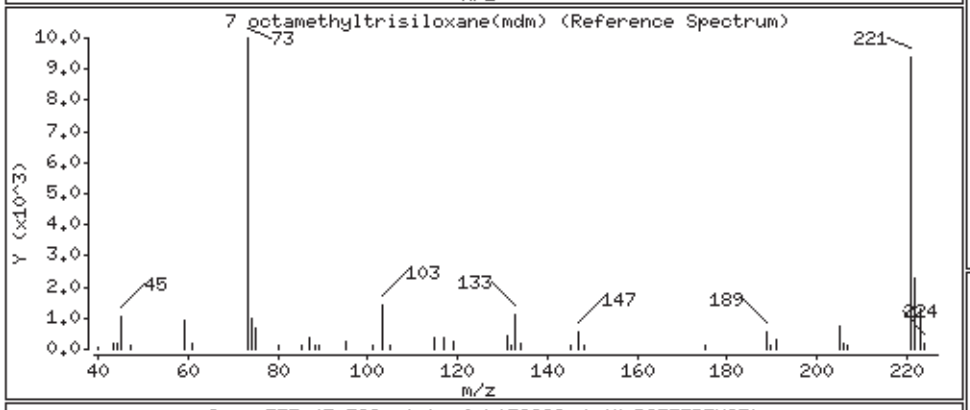
Concentration: 46.2 ug

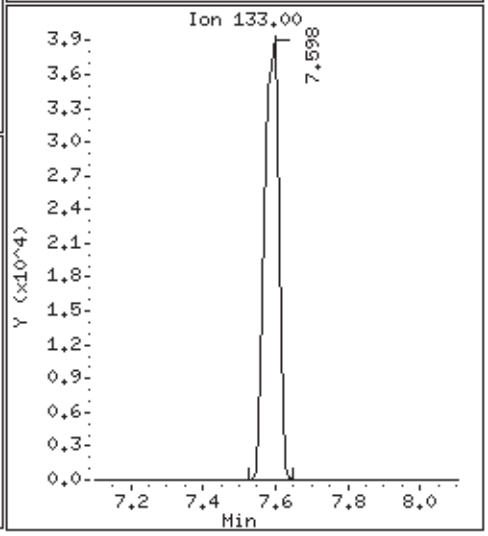


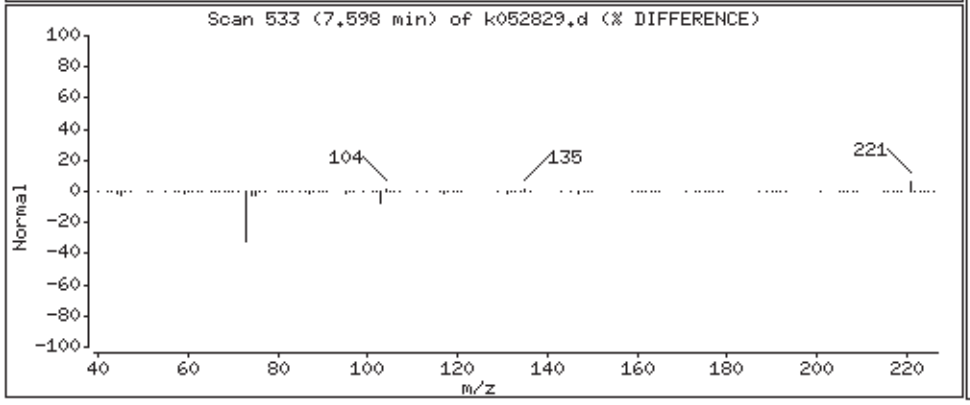












Data File: /chem/msdk.i/k28may10a.b/k052829.d

Date : 28-MAY-2010 20:25

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

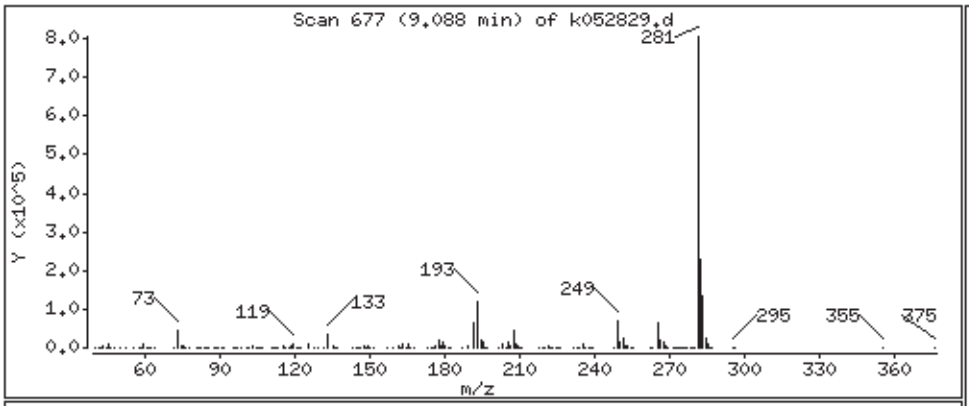
Operator: LZ

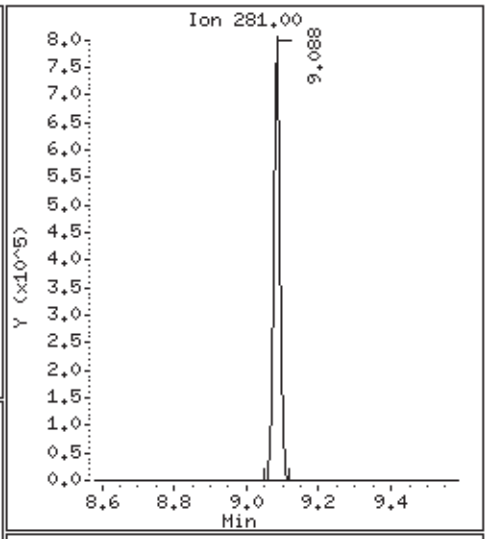
Column phase: DB-5.625

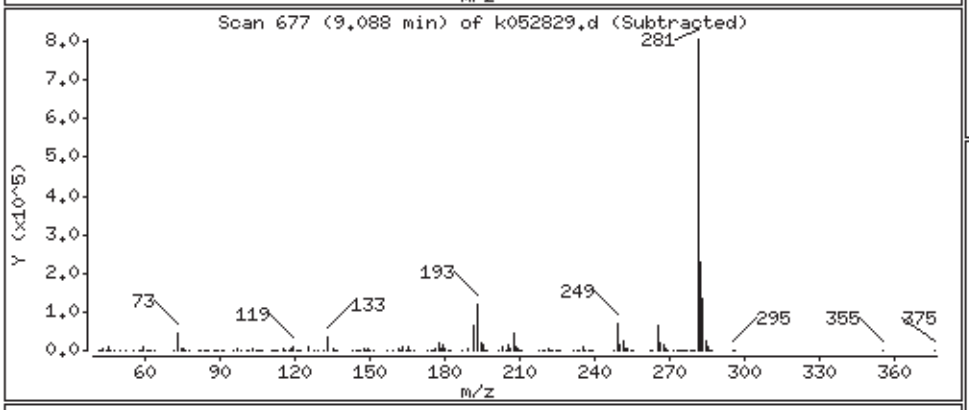
Column diameter: 0.25

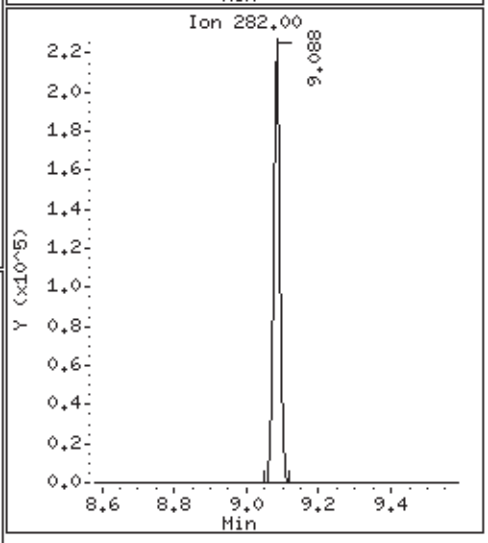
9 octa-m-cyclotetrasiloxane(d4)

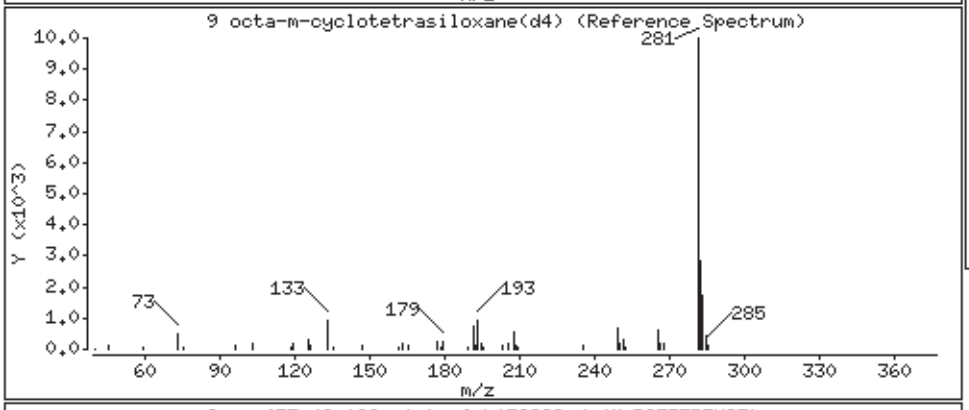
Concentration: 44.5 ug

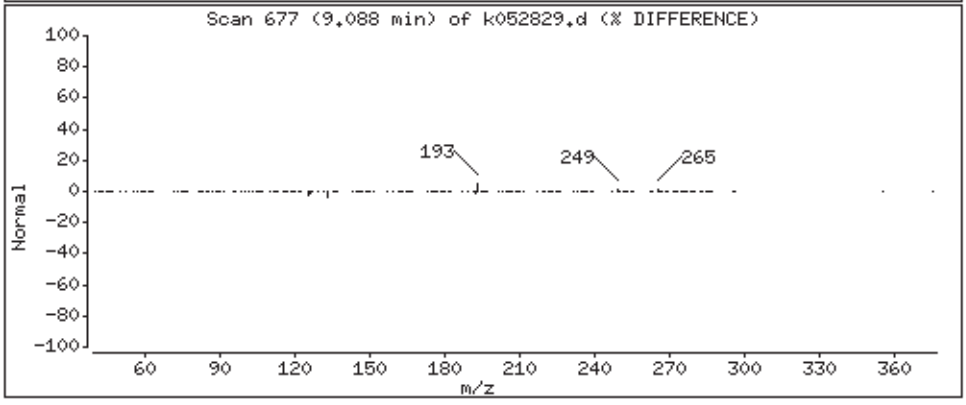












Data File: /chem/msdk.i/k28may10a.b/k052829.d

Date : 28-MAY-2010 20:25

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

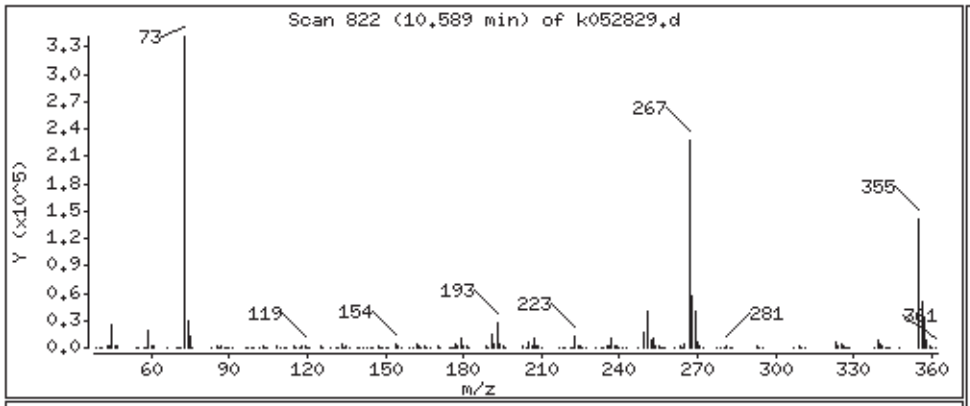
Operator: LZ

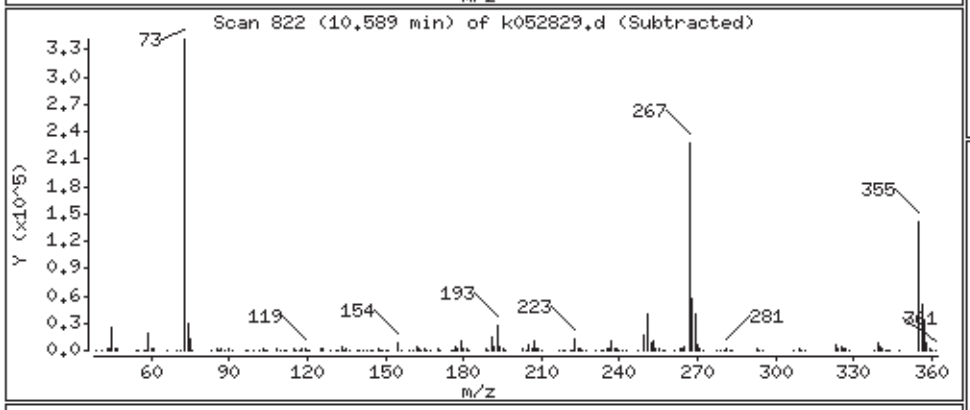
Column phase: DB-5.625

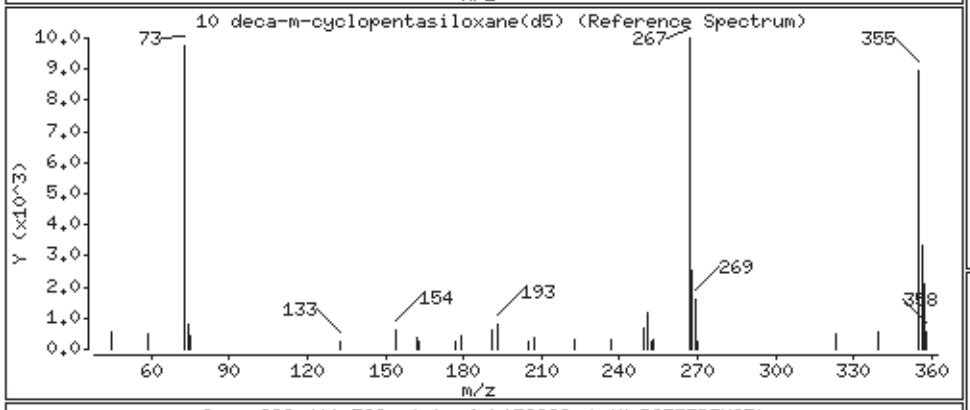
Column diameter: 0.25

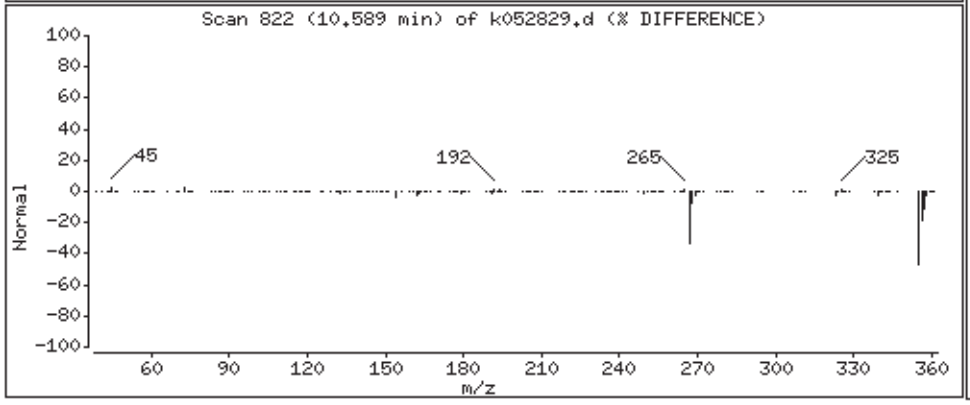
10 deca-m-cyclopentasiloxane(d5)

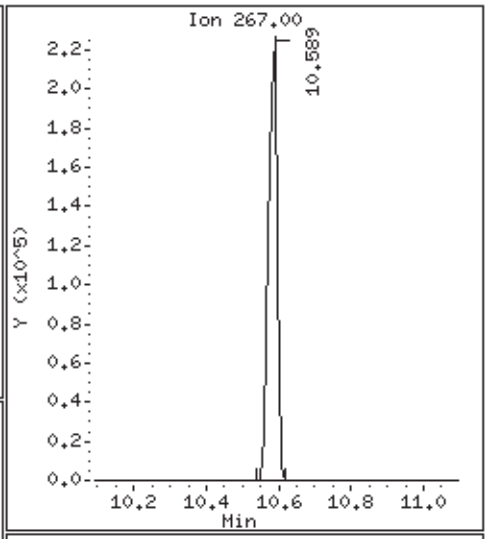
Concentration: 51.2 ug

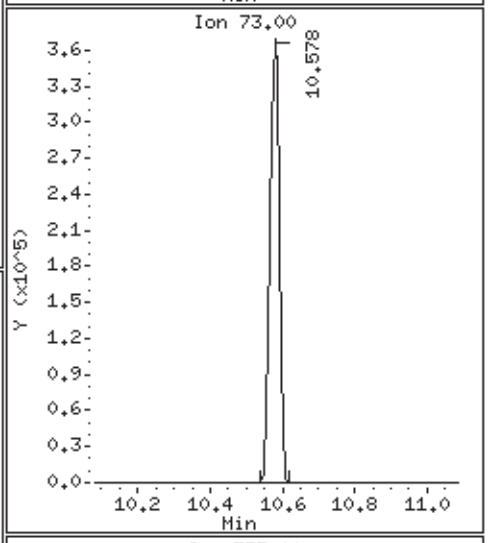


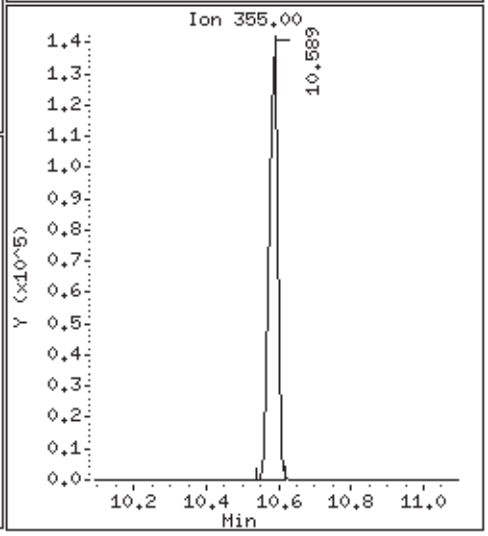












Data File: /chem/msdk.i/k28may10a.b/k052829.d

Date : 28-MAY-2010 20:25

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

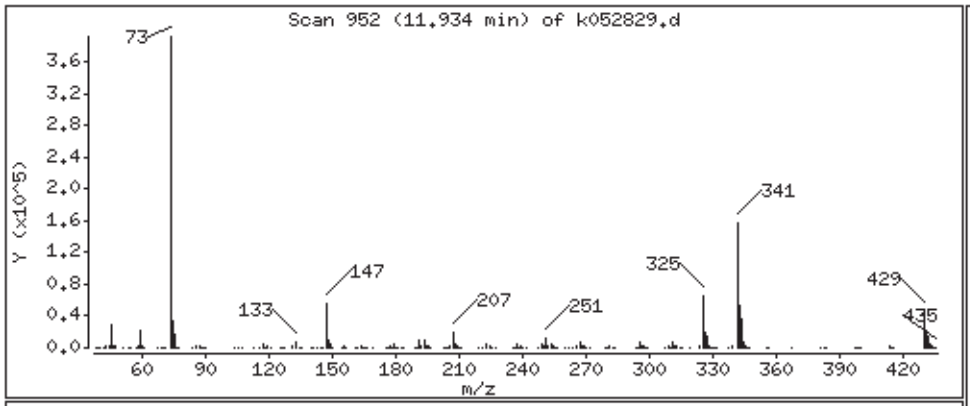
Operator: LZ

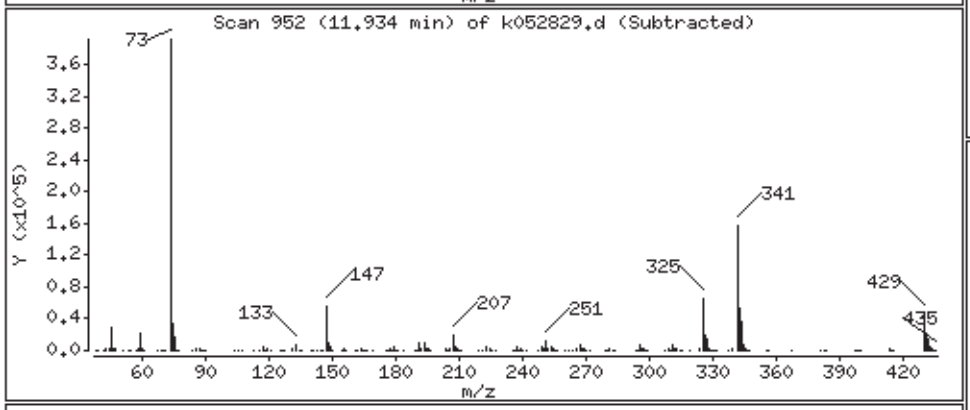
Column phase: DB-5.625

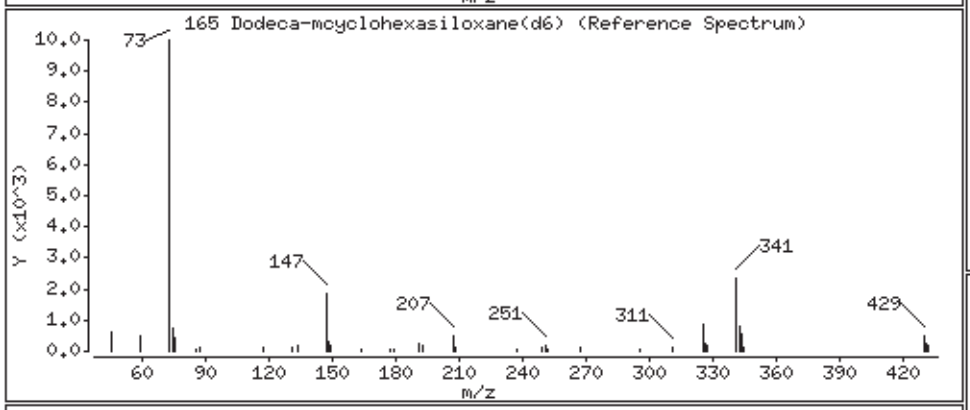
Column diameter: 0.25

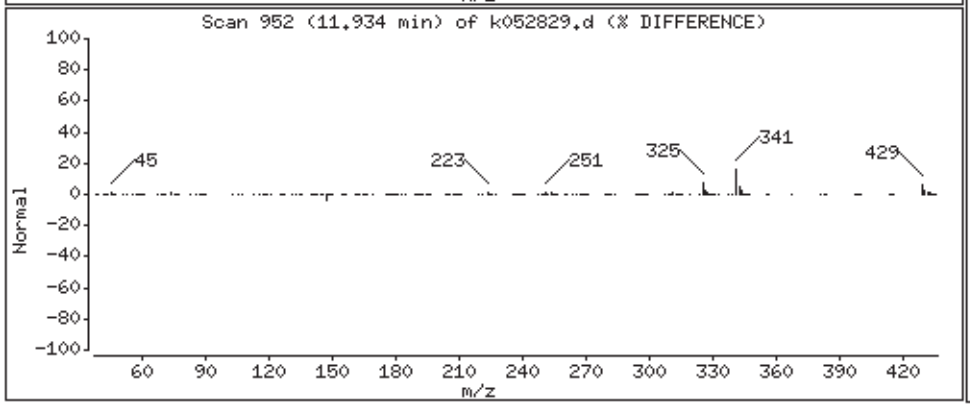
165 Dodeca-mcyclohexasiloxane(d6)

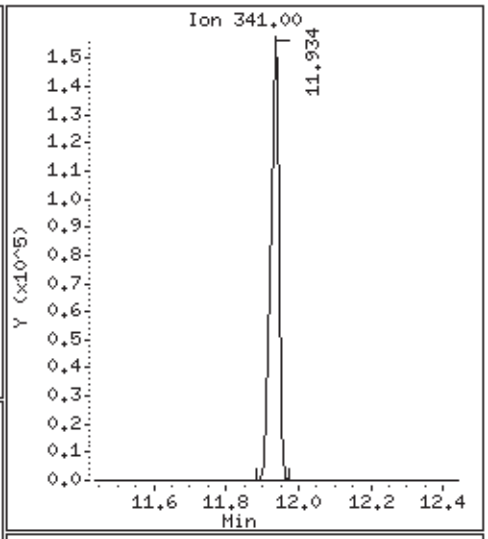
Concentration: 38.4 ug

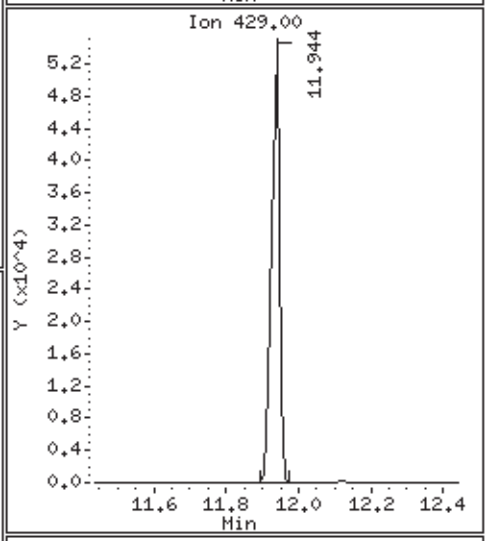


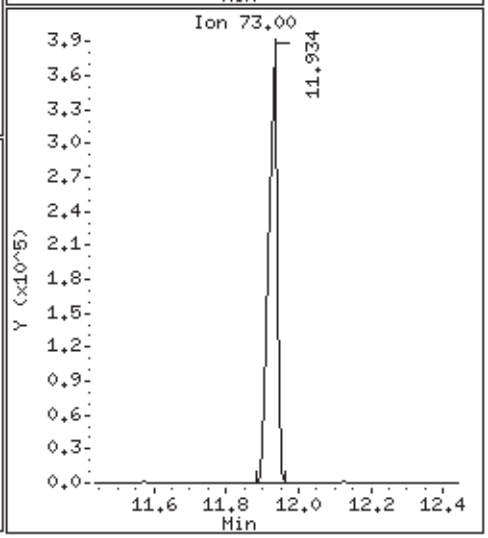












Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1005453C-34D

SILOXANES - GC/MS

File Name:	**k052006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/20/10 11:11 AM**	

Compound	%Recovery
Octamethylcyclotetrasiloxane (D4)	106
Decamethylcylopentasiloxane (D5)	122
Dodecamethylcyclohexasiloxane (D6)	108
Hexamethyldisiloxane	97
Octamethyltrisiloxane	121

Air Sample Volume(L): 22.0
Impinger Total Volume(mL): 1.00

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Hexamethyl disiloxane -d18	113	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: k20may10
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Level: MED Operator: LZ
Data Type: MS DATA SampleType: LCS
SpikeList File: LCS50.spk Quant Type: ISTD
Sublist File: silo.sub
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
5 hexamethyldisiloxa	50.0	48.4	96.73	70-130
7 octamethyltrisilox	50.0	60.5	120.92	70-130
9 octa-m-cyclotetras	50.0	52.9	105.79	70-130
10 deca-m-cyclopentas	50.0	60.8	121.62	70-130
165 Dodeca-mcyclohexas	50.0	53.8	107.54	70-130

SURROGATE COMPOUND	AMOUNT ADDED uG/mL	AMOUNT RECOVERED uG/mL	% RECOVERED	LIMITS
$ 4 Hexamethyldisiloxa	40.0	45.3	113.27	70-130

Air Toxics Ltd.

Siloxane Analysis by GC/MS

Data file : /var/chem/msdk.i/k20may10.b/k052006.d
Lab Smp Id: 1869-21-50 Client Smp ID: LCS
Inj Date : 20-MAY-2010 11:11
Operator : LZ Inst ID: msdk.i
Smp Info : ;1869-21-50;LCS
Misc Info :
Comment : HP5MS 30m x 0.25 mm 0.25u
Method : /var/chem/msdk.i/k20may10.b/k10k0323.m
Meth Date : 20-May-2010 11:35 lzhang Quant Type: ISTD
Cal Date : 23-MAR-2010 18:31 Cal File: k032312.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: silo.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * v * CpndVariable
v 0.00000 final volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (uG/mL)	FINAL (ug)
*	3 Benzene-d6	84	2.872	2.873	(1.000)	1007427	40.0000	
$	4 Hexamethyldisiloxane-d18	162	2.934	2.924	(1.022)	1899405	45.3079	45.3
	5 hexamethyldisiloxane(mm)	147	3.059	3.059	(1.065)	1875138	48.3651	48.4
*	6 Toluene-d8	98	5.159	5.159	(1.000)	983866	40.0000	
	7 octamethyltrisiloxane(mdm)	221	7.612	7.612	(1.475)	1417874	60.4615	60.5
*	8 4-Bromofluorobenzene	174	8.388	8.388	(1.000)	372497	40.0000	
	9 octa-m-cyclotetrasiloxane(d4)	281	9.091	9.092	(1.084)	1673190	52.8938	52.9
	10 deca-m-cyclopentasiloxane(d5)	267	10.602	10.603	(1.264)	617585	60.8114	60.8
	165 Dodeca-mcyclohexasiloxane(d6)	341	11.948	11.948	(1.424)	497289	53.7711	53.8

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdk.i
Lab File ID: k052006.d
Lab Smp Id: 1869-21-50
Analysis Type: SV
Quant Type: ISTD
Operator: LZ
Method File: /var/chem/msdk.i/k20may10.b/k10k0323.m
Misc Info:

Calibration Date: 20-MAY-2010
Calibration Time: 10:48
Client Smp ID: LCS
Level: MED
Sample Type: WATER

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	1174851	587426	2349702	1007427	-14.25
6 Toluene-d8	1158115	579058	2316230	983866	-15.05
8 4-Bromofluorobenz	415107	207554	830214	372497	-10.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
3 Benzene-d6	2.87	2.37	3.37	2.87	-0.01
6 Toluene-d8	5.16	4.66	5.66	5.16	0.00
8 4-Bromofluorobenz	8.39	7.89	8.89	8.39	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msdk.i/k20may10.b/k052006.d

Page 1

Date : 20-MAY-2010 11:11

Client ID: LCS

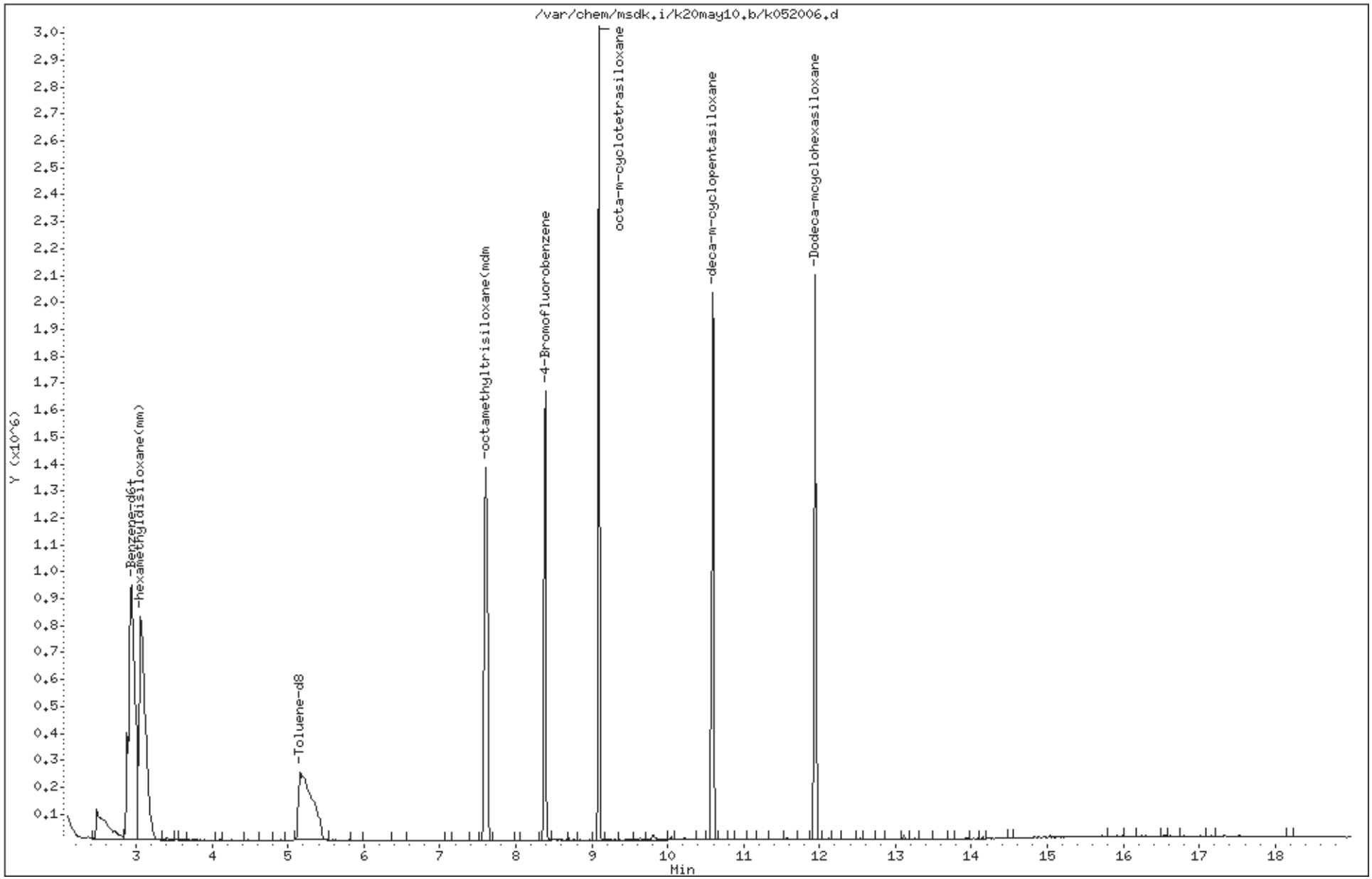
Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

Operator: LZ

Column phase: DB-5.625

Column diameter: 0.25



Data File: /var/chem/msdk.i/k20may10.b/k052006.d

Date : 20-MAY-2010 11:11

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

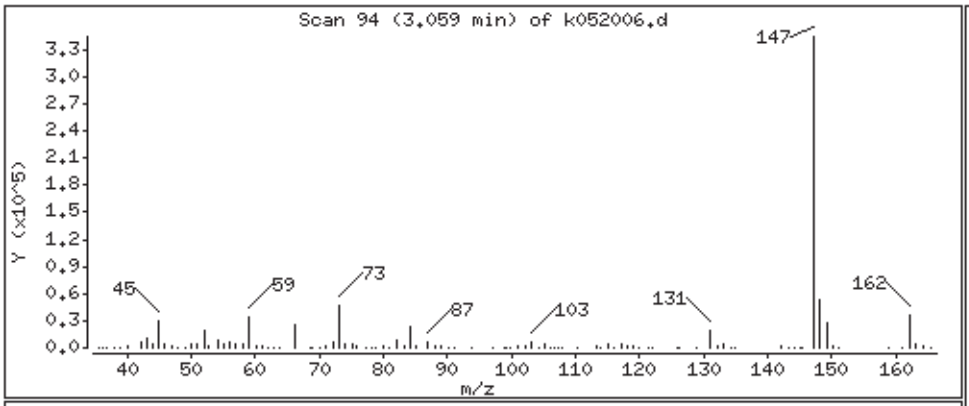
Operator: LZ

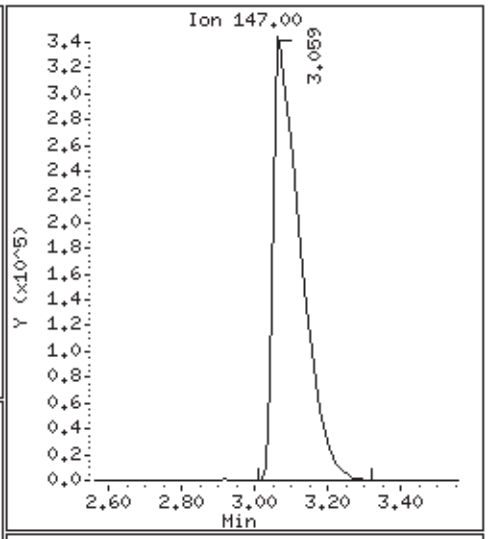
Column phase: DB-5.625

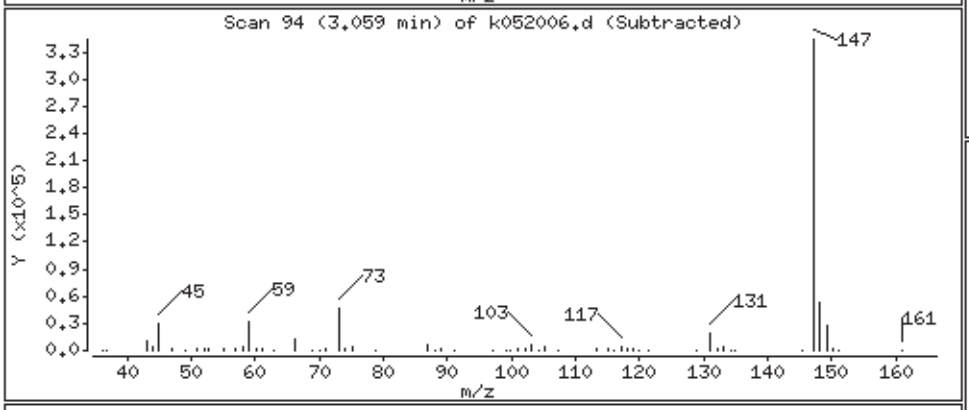
Column diameter: 0.25

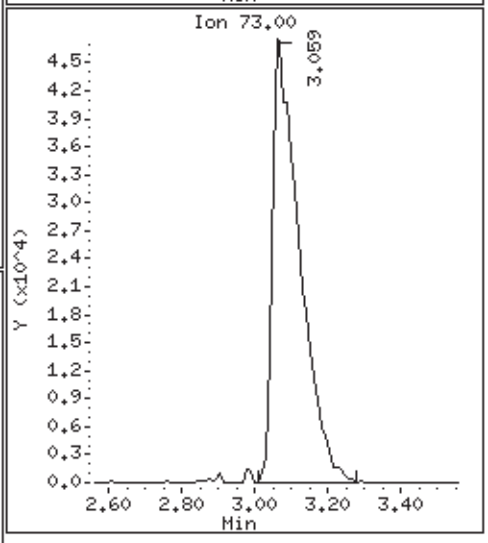
5 hexamethyldisiloxane(mm)

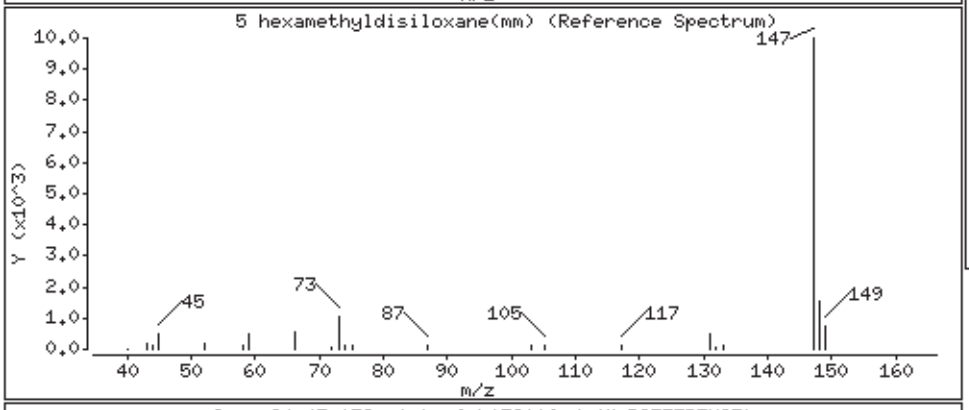
Concentration: 48.4 ug

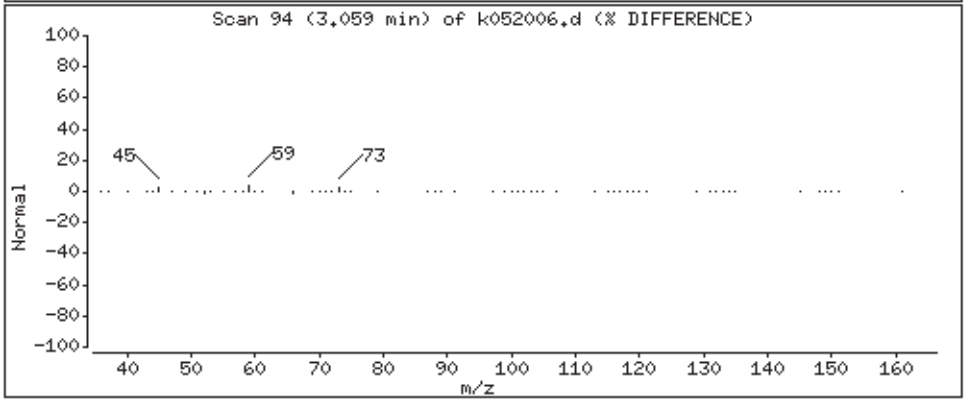












Data File: /var/chem/msdk.i/k20may10.b/k052006.d

Date : 20-MAY-2010 11:11

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

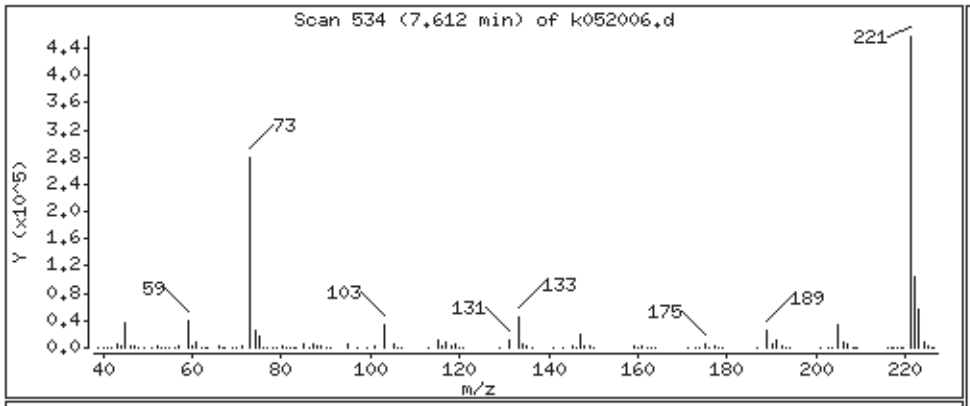
Operator: LZ

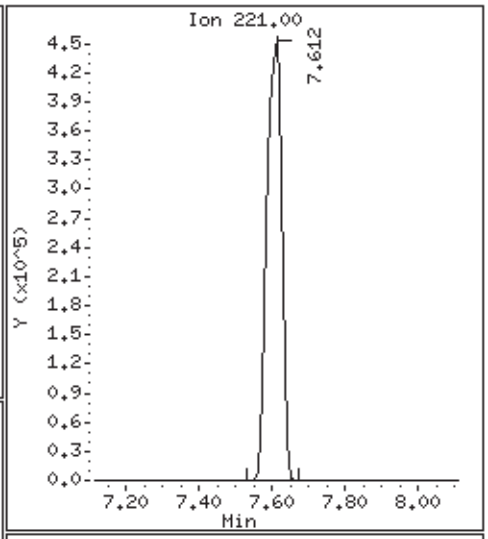
Column phase: DB-5.625

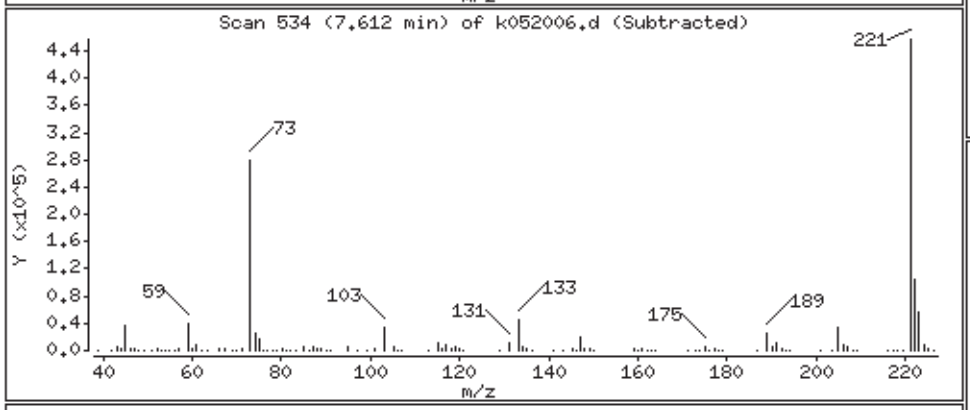
Column diameter: 0.25

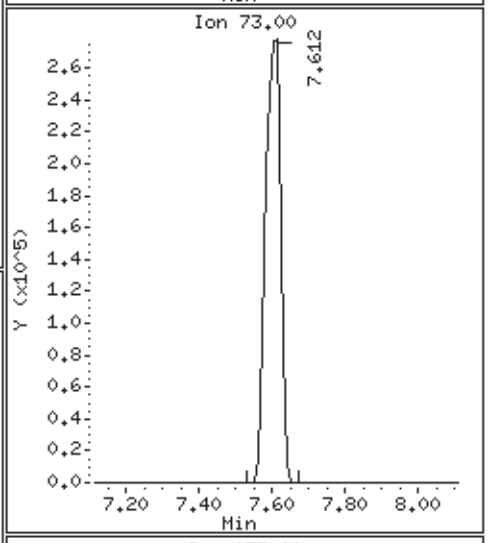
7 octamethyltrisiloxane(mdm)

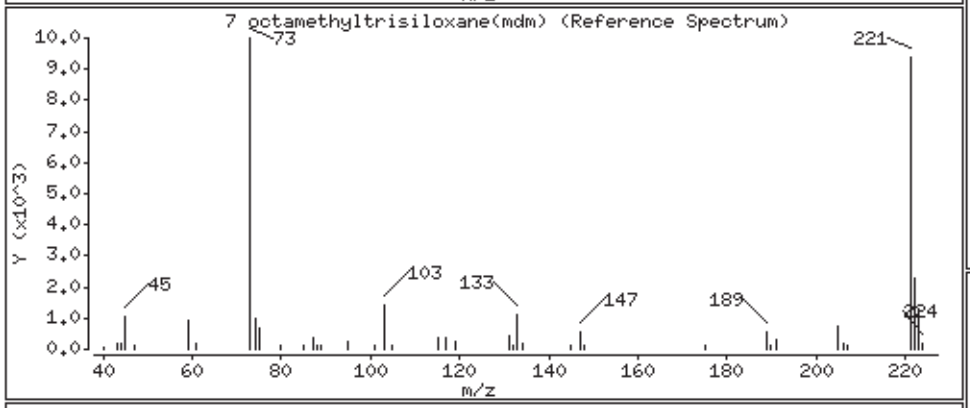
Concentration: 60.5 ug

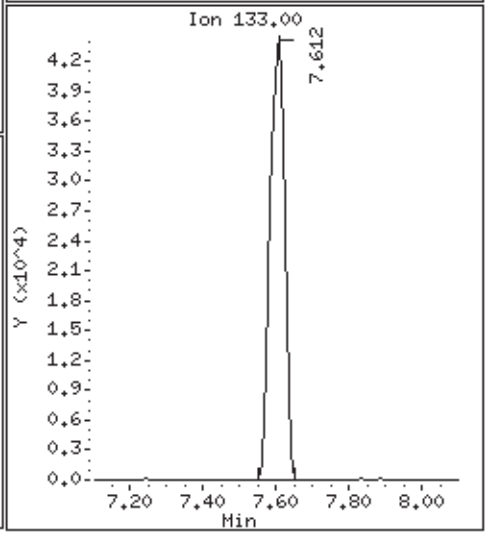


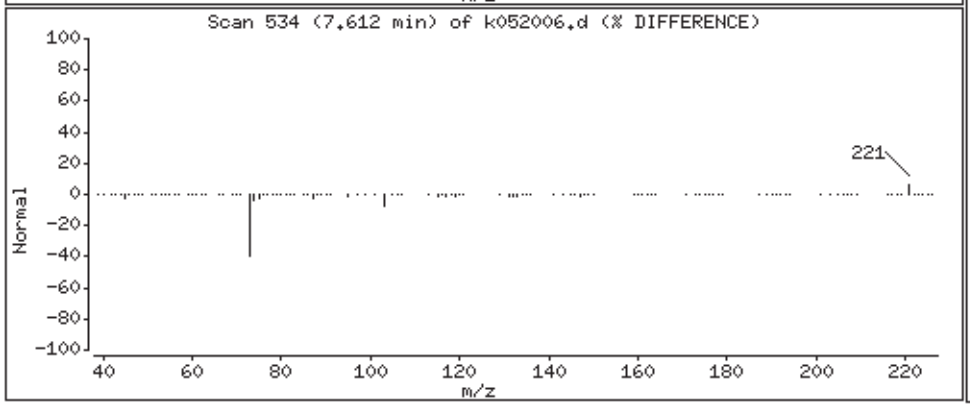












Data File: /var/chem/msdk.i/k20may10.b/k052006.d

Date : 20-MAY-2010 11:11

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

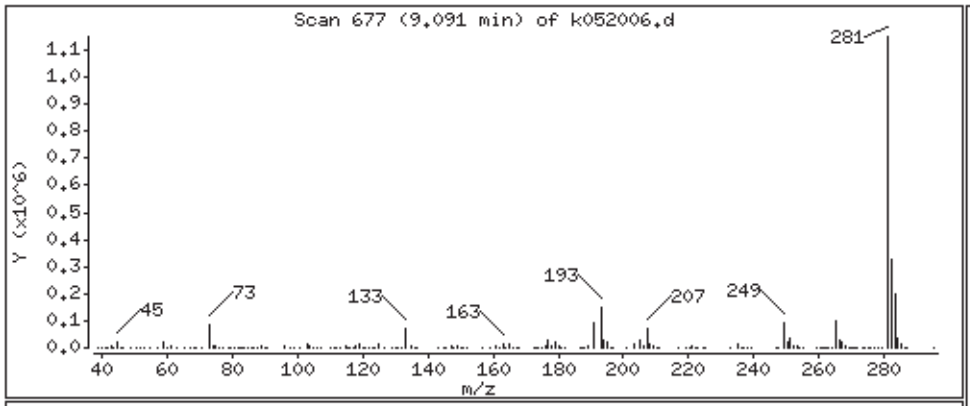
Operator: LZ

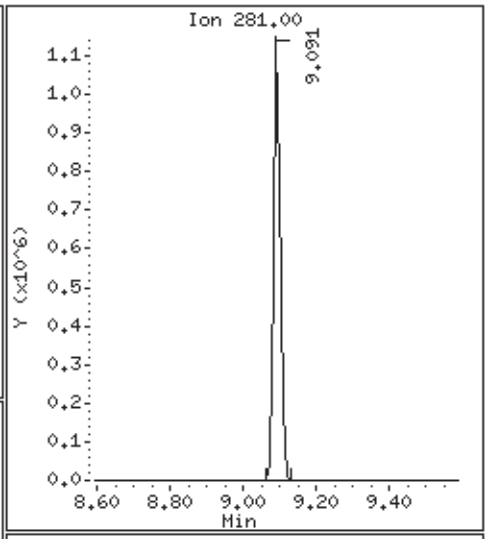
Column phase: DB-5.625

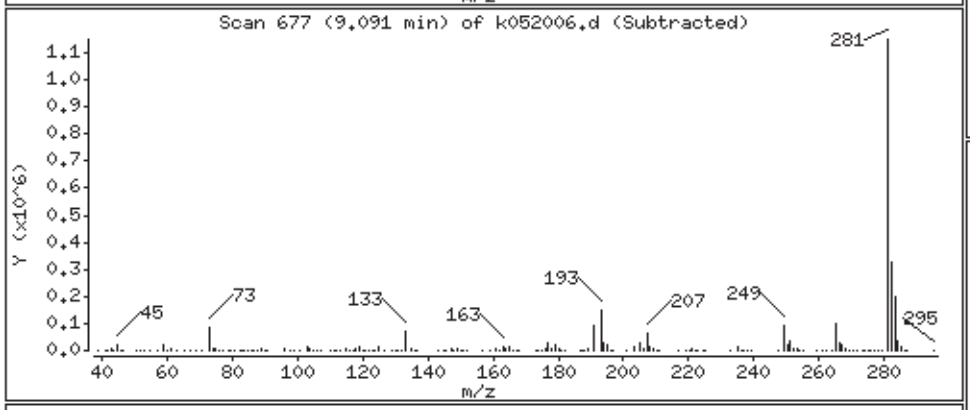
Column diameter: 0.25

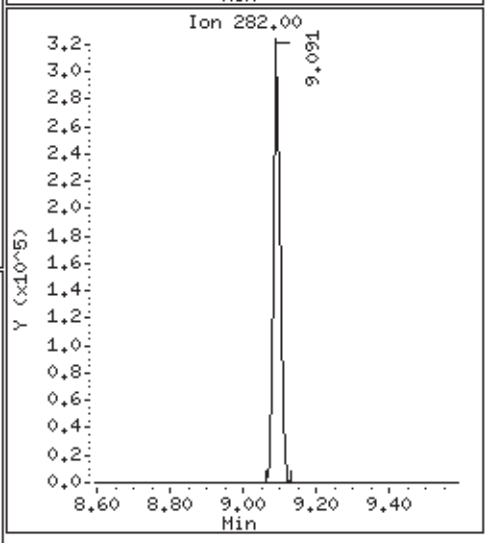
9 octa-m-cyclotetrasiloxane(d4)

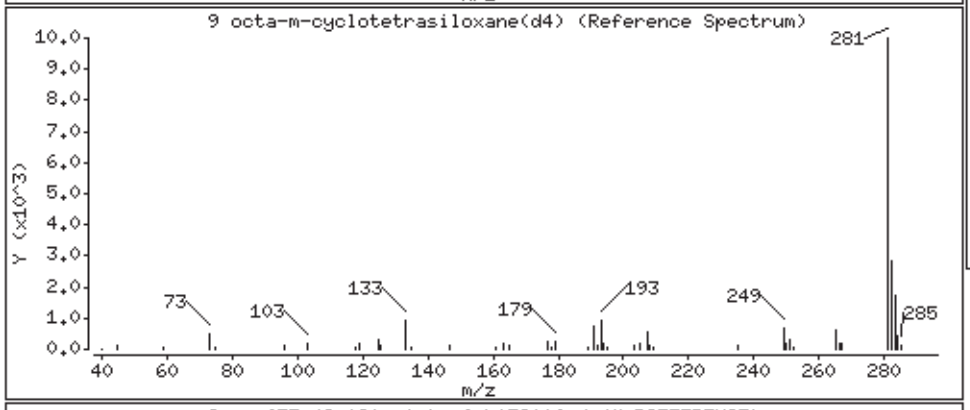
Concentration: 52.9 ug

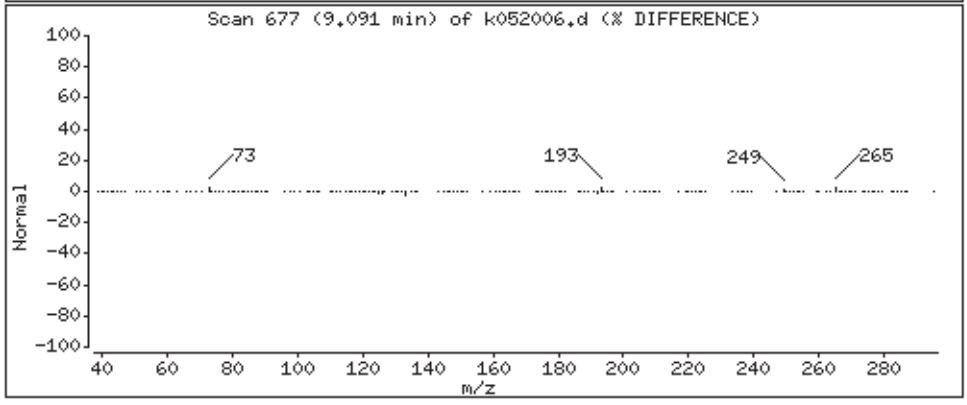












Data File: /var/chem/msdk.i/k20may10.b/k052006.d

Date : 20-MAY-2010 11:11

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

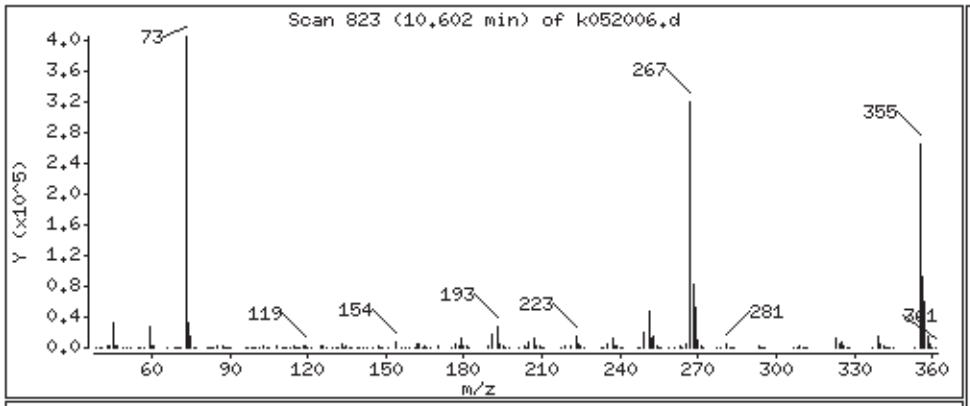
Operator: LZ

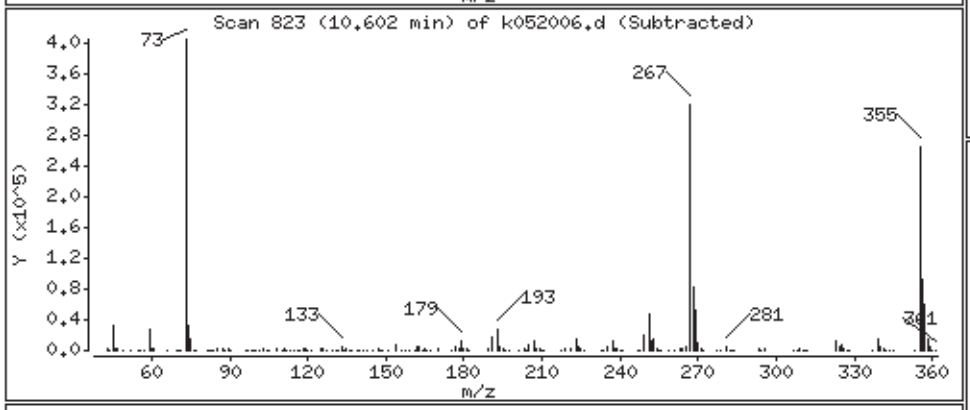
Column phase: DB-5.625

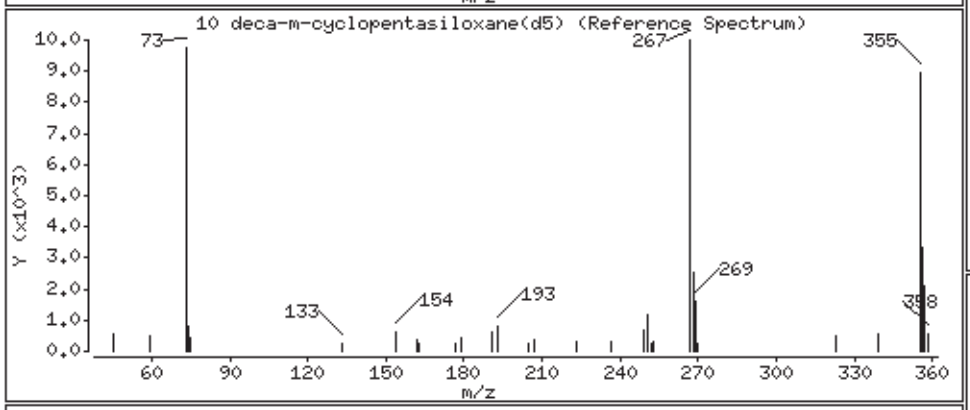
Column diameter: 0.25

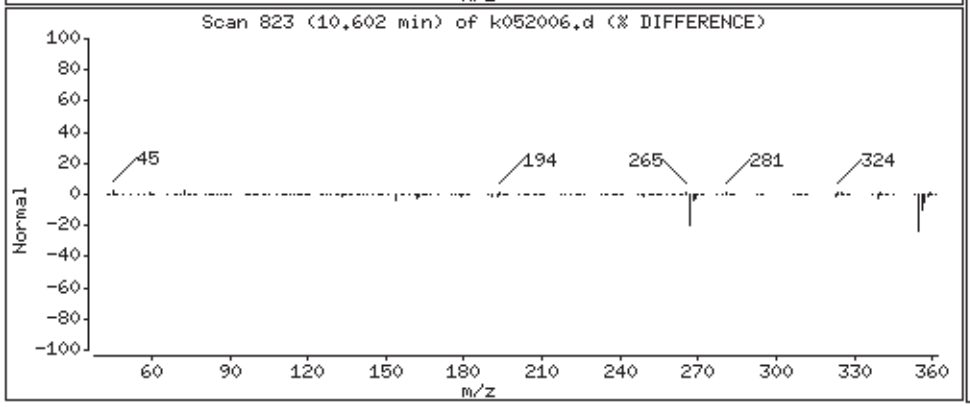
10 deca-m-cyclopentasiloxane(d5)

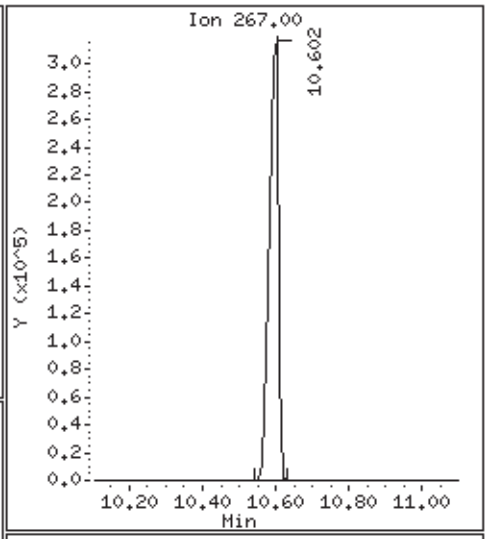
Concentration: 60.8 ug

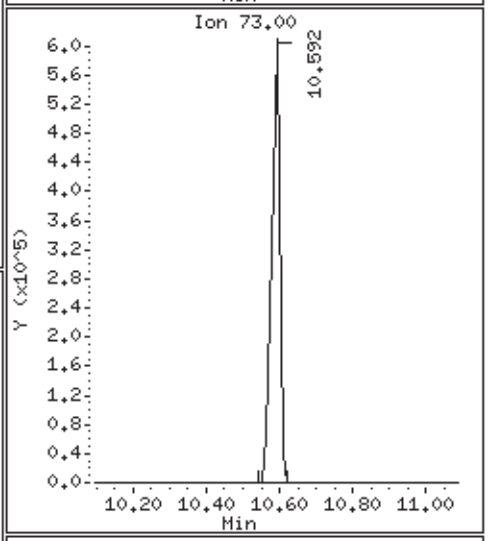


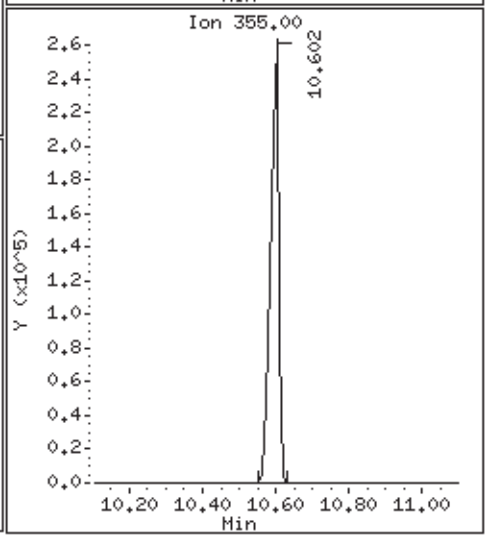












Data File: /var/chem/msdk.i/k20may10.b/k052006.d

Date : 20-MAY-2010 11:11

Client ID: LCS

Instrument: msdk.i

Sample Info: ;1869-21-50;LCS

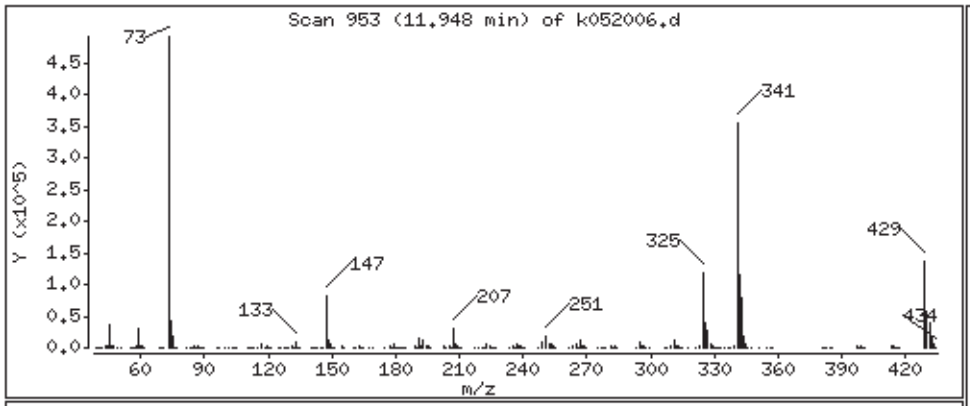
Operator: LZ

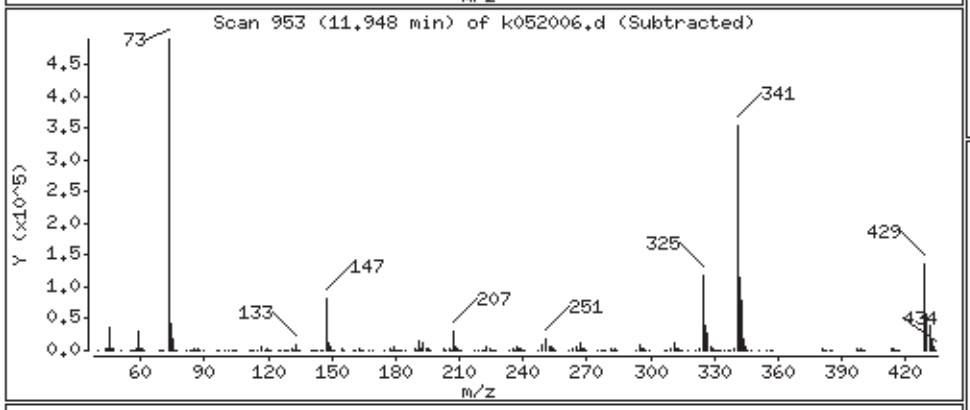
Column phase: DB-5.625

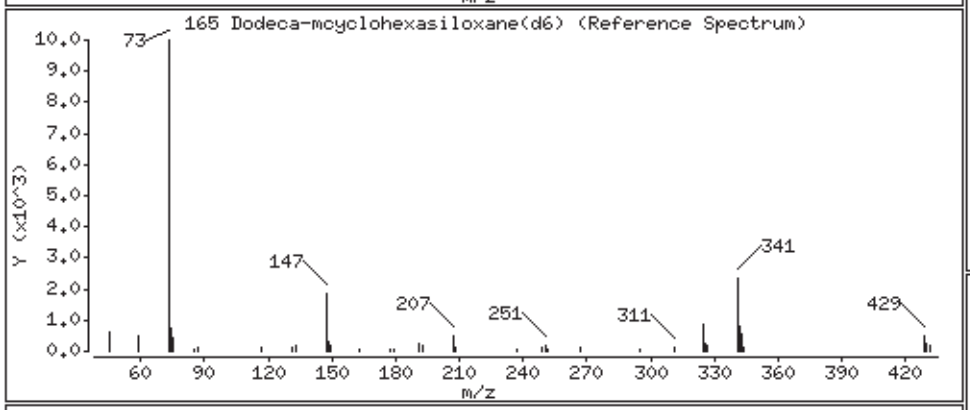
Column diameter: 0.25

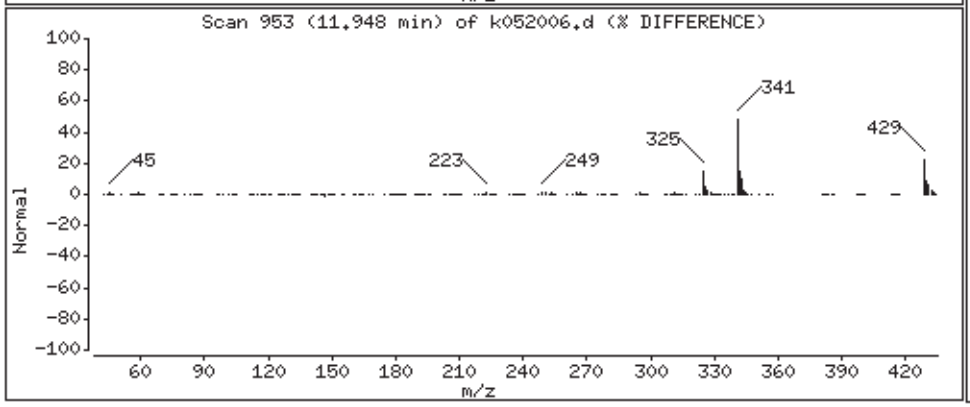
165 Dodeca-mcyclohexasiloxane(d6)

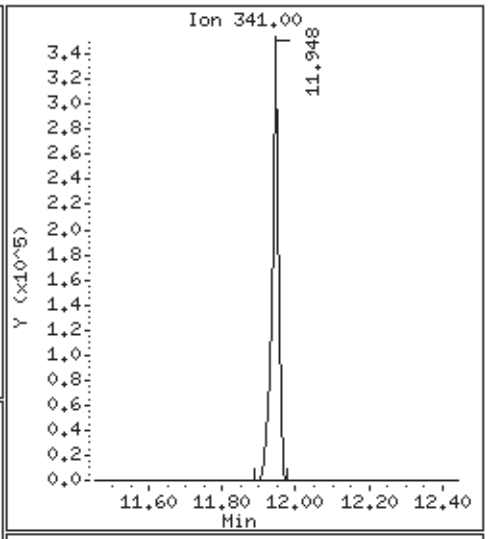
Concentration: 53.8 ug

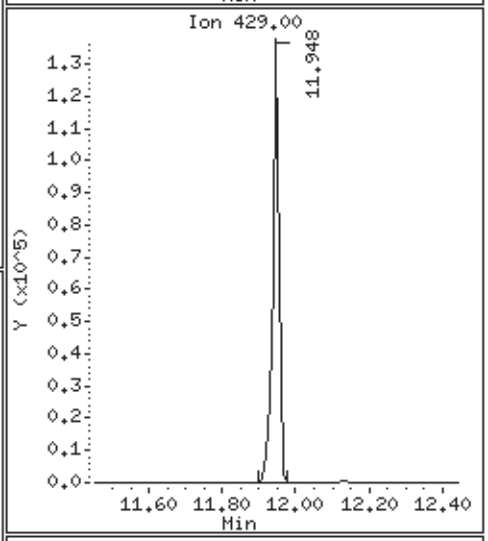


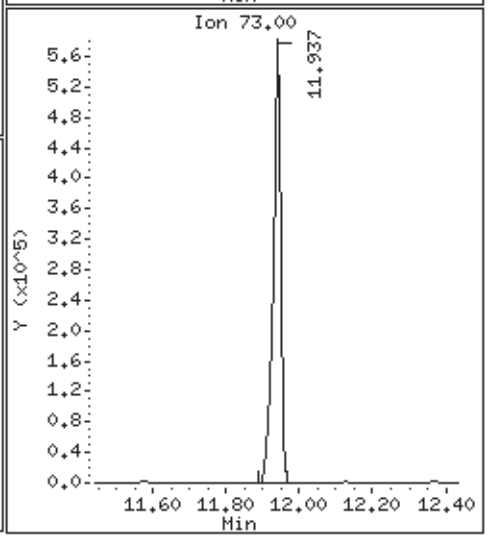












@Air Toxics Ltd.
Method: Siloxanes/ TO-13

MSD-K

Logbook: 1773

124

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	58.00
68	Less than 2.00% of mass 69	0.00 (0.00)[1]
69	Less than 99.90% of mass 198	36.42
70	Less than 2.00% of mass 69	0.15 (0.41)[1]
127	40.00 – 60.00% of mass 198	44.80
197	Less than 1.00% of mass 198	0.39
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	23.62
365	Greater than 1.00% of mass 198	3.76
441	Present, but less than mass 443	7.18
442	40.00 - 100.00% of mass 198	77.92
443	17.00 - 23.00% of mass 442	14.76 (18.95)[2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: K052003
DFTPP Injection Date: 5/20/10
DFTPP Injection Time: 0957

IS 1869-19-1000	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	W 5/20/10
Benzene-d_6:	1174851
Toluene-d_8:	1158115
4-Bromofluorobenzene:	415107

This Tune Check Applies To The Following Samples, Blanks And Standards:

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K052003	1869-6B-50 Tune	2	1.00	W	5/20/10	0957	W	
2	x	4	1869-20-50 ccv	3				1018		
3	✓	5	1869-20-50 ccv	3				1048		
4	✓	6	1869-21-50 LCS	4				1111		
5	✓	7	MeOH Lab Blk	5				1135		
6	x	8	1005222-01A	6				1200		1S↓
7	D	9	-01B	7				1224		over range
8	✓	10	-01A	8	2.00			1248 1317		4.6 mL
9	✓	11	-01B	9	3.33			1338 1312		9.6 mL
10	✓	12	-01BB	9	3.33			1402 1336		
11	✓	13	1005268-01A	10	1.00			1427 1402		10.6 mL
12	✓	14	-01AA	W 5/20/10 IR11				1450 1427		
13	✓	15	-01B	12				1514 1450		15.1 mL
14	✓	16	-01BB	12				1539 1514		
15	✓	17	1005336-01A	13				1603 1539		13.3 mL
16	✓	18	-02A	14				1627 1603		14.9 mL
17	✓	19	-03A	15				1657 1627		15.1 mL
18	✓	20	1005483-01A	16				1715 1651		14.1 mL
19	✓	21	-01AA	16				1739 1715		~~15.1 mL~~ W 5/21/10
20	✓	22	-01B	17				~~1803~~ 1739 W 5/21/10		15.1 mL

Calculation Check: File ID: K052006 Compound: D5 Initials: W

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample X Conc. Int. Standard / ICAL RRF$_{average}$ = (617585 / 372497) X (40.0 / 1.09056) = 60.8

µG/Sample = nG On Column X 1000 µL Final Vol. X D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (60.8 / 1000) X (1000 / 1.00) = 60.8

Reported Result = 60.8

Signed

5/21/10
Date

@Air Toxics Ltd.
Method: Siloxanes/TO-13

MSD-K

Logbook: 1773

125

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	
51	30.00 - 60.00% of mass 198	
68	Less than 2.00% of mass 69	( )[1]
69	Less than 99.90% of mass 198	
70	Less than 2.00% of mass 69	( )[1]
127	40.00 – 60.00% of mass 198	
197	Less than 1.00% of mass 198	
199	5.00 - 9.00% of mass 198	
275	10.00 - 30.00% of mass 198	
365	Greater than 1.00% of mass 198	
441	Present, but less than mass 443	
442	40.00 - 100.00% of mass 198	
443	17.00 - 23.00% of mass 442	( )[2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: _____
DFTPP Injection Date: _____
DFTPP Injection Time _____

IS	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	
Benzene-d_6:	
Toluene-d_8:	
4-Bromofluorobenzene:	Li 5/21/10

This Tune Check Applies To The Following Samples, Blanks And Standards:

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K052023	1005483-1B01BB Li 5/21/10	17	1.00	Li	5/20/10	1803	Li	
2	✓	24	1005334-01A	18				1827		12.5 mL
3	✓	25	1005335-01A	19				1850		12.9 mL
4	✓	26	1005453E-29A C Li 5/21/10	20				1914		13.7 mL
5	✓	27	1 -30A	21				1938		12.9 mL
6	✓	28	1005334-01B	22				2002		14.1 mL
7	✓	29	1005335-01B	23				2026		13.7 mL
8	✓	30	1005453E-29B C Li 5/21/10	24				2050		14.1 mL
9	✓	31	1 -30B	25				2114	✓	14.9 mL
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20							Li 5/21/10			

Calculation Check: File ID: _____ Compound: _____ *Initials:* _____

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample X Conc. Int. Standard / ICAL $RRF_{average}$ = ( ) X ( ) / ( ) = _____

µG/Sample = nG On Column X 1000 µL Final Vol. X D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = ( ) X ( ) X ( ) / ( ) = _____

Reported Result = Li 5/21/10

Signed _____ Date 5/21/10

@Air Toxics Ltd.
Method: Siloxanes/ TO-13

MSD-K

Logbook: 1773

133

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.80
68	Less than 2.00% of mass 69	0.00(0.00)[1]
69	Less than 99.90% of mass 198	35.74
70	Less than 2.00% of mass 69	0.05 (0.15)[1]
127	40.00 – 60.00% of mass 198	44.88
197	Less than 1.00% of mass 198	0.29
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 30.00% of mass 198	23.68
365	Greater than 1.00% of mass 198	3.87
441	Present, but less than mass 443	9.69
442	40.00 - 100.00% of mass 198	68.44
443	17.00 - 23.00% of mass 442	12.61(18.43)[2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: K052602
DFTPP Injection Date: 5/26/10
DFTPP Injection Time 0933

IS 1869-19-1000	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	L: 5/26/10
Benzene-d_6:	1007421
Toluene-d_8:	948941
4-Bromofluorobenzene:	315762

This Tune Check Applies To The Following Samples, Blanks And Standards:

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K052602	1869-68-50 Tune	2	1.00	W	5/26/10	0933	W	
2	✓	3	1869-20-50 CCV	3				0957		
3	X	4	1869-21-50 LCS	4				1020		RT ISL
4	✓	5	1869-21-50 LCS	4				1047		
5	✓	6	MeOH Lab Blk	5				1114		
6	✓	7	1005453C-31A	6				1141		14.5mL
7	✓	8	-32A L: 5/26/10	7				1205		12.7mL
8	✓	9	-31B	8				1229		13.9mL
9	✓	10	-32B	9				1252		14.1mL
10	X	11	1005527-01A	10				1316		ISL
11	✓	12	-01AA	10				1340		
12	✓	13	-01B	11				1404		16.0mL
13	✓	14	-01BB	11				1428		
14	✓	15	-01A	12				1452		13.1mL
15	X	16	1005517-01A	13				1526		Not Dup
16	✓	17	-01B	14				1550		8.6mL
17	✓	18	-01BB	14				1614		
18	✓	19	-01AA	15				1638		
19	✓	20	-01A	16				1707		6.9mL
20	✓	21	-02A	17				1733		7.9mL

Calculation Check: File ID: K052605 Compound: D4 Initials: W

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample X Conc. Int. Standard / ICAL $RRF_{average}$ = (1318139) / (365093) X (40.0) / (3.39686) = 42.5

µG/Sample = nG On Column X 1000 µL Final Vol. / 1.0 µL Inj. Vol. X 1000 nG/µG X D.F. = (42.5) X (1000) / (1000) X (1.00) = 42.5

Reported Result = 42.5

Signed

5/26/10
Date

@Air Toxics Ltd.
Method: Siloxanes/ TO-13

MSD-K

Logbook: 1773

139

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.36
68	Less than 2.00% of mass 69	0.00 (0.00)[1]
69	Less than 99.90% of mass 198	35.17
70	Less than 2.00% of mass 69	0.27 (0.78)[1]
127	40.00 – 60.00% of mass 198	46.24
197	Less than 1.00% of mass 198	0.44
199	5.00 - 9.00% of mass 198	7.12
275	10.00 - 30.00% of mass 198	22.62
365	Greater than 1.00% of mass 198	3.79
441	Present, but less than mass 443	9.52
442	40.00 - 100.00% of mass 198	62.73
443	17.00 - 23.00% of mass 442	11.52 (19.00)[2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: K052806
DFTPP Injection Date: 05/28/10
DFTPP Injection Time 1114

IS 1869-19-1000	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	W 5/28/10
Benzene-d_6:	819981
Toluene-d_8:	797846
4-Bromofluorobenzene:	279522

This Tune Check Applies To The Following Samples, Blanks And Standards:

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K052806	1869-6B-50 Tune	2	1.00	W	5/28/10	1114	W	
2	X	7	1869-20-50 CCV	3				1134		
3	✓	8	1869-20-50 CCV	3				1158		
4	✓	9	1869-21-50 LCS	4				1223		
5	✓	10	MeOH Blank	5				1247		
6	✓	11	1005453C-17A	6				1313		13.7 mL
7	✓	12	-17B	7				1336		15.2 mL
8	✓	13	-17AA	6				1400		
9	✓	14	-17BB	7				1424		
10	✓	15	1005639-01A	8				1450		9.4 mL
11	✓	16	-01B	9				1514		13.1 mL
12	✓	17	1005453C-23A	10				1537		7.9 mL
13	✓	18	-22A	11				1601		12.1 mL
14	✓	19	-20A	12				1625		12.5 mL
15	✓	20	-21A	13				1649		12.4 mL
16	✓	21	-19A	14				1713		14.3 mL
17	✓	22	-19B	15				1737		14.5 mL
18	✓	23	-20B	16				1800		14.5 mL
19	✓	24	-21B	17				1824		15.4 mL
20	✓	25	-22B	18				1848		13.7 mL
	✓	K052826	1005453C-23B	19	1.00	W	5/28/10	1912	W	14.6 mL

Calculation Check: File ID: K052809 Compound: PS Initials: W

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample X Conc. Int. Standard / ICAL RRF$_{average}$ = (473050 / 331791) X (40.0 / 1.09056) = 52.3

µG/Sample = nG On Column X 1000 µL Final Vol. X D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (52.3 X 1000 X 1.00) / (1000) = 52.3

Reported Result = 52.3

Signed

6/11/10
Date

@Air Toxics Ltd.
Method: Siloxanes/ TO-13

MSD-K

Logbook: 1113

140

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.00
68	Less than 2.00% of mass 69	0.06 (0.14)[1]
69	Less than 99.90% of mass 198	38.97
70	Less than 2.00% of mass 69	0.28 (0.72)[1]
127	40.00 – 60.00% of mass 198	45.87
197	Less than 1.00% of mass 198	0.33
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	23.79
365	Greater than 1.00% of mass 198	3.87
441	Present, but less than mass 443	4.09
442	40.00 - 100.00% of mass 198	68.45
443	17.00 - 23.00% of mass 442	13.66 (19.95)[2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL

DFTPP File ID: K052827
DFTPP Injection Date: 5/28/10
DFTPP Injection Time 1939

IS 1869-19-1000	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}: 5/28/10	
Benzene-d_6: 767574	
Toluene-d_8: 5/28/10 ~~708~~ 708584	
4-Bromofluorobenzene: 250041	

This Tune Check Applies To The Following Samples, Blanks And Standards:

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K052827	1869-6B-50 Tune	2	1.00	W	5/28/10	1939	W	
2	✓	28	1869-20-50 CCV	3				1959		
3	✓	29	1869-21-50 LCS	4				2025		
4	✓	30	MeOH Lab Blk	5				2049		
5	✓	31	1005676-01A	6				2112		13.2mL
6	✓	32	-01AA	6				2136		
7	✓	33	-02A	7				2200		13.1mL
8	✓	34	-02B	8				2224		14.0mL
9	✓	35	-01B	9				2248		14.7mL
10	✓	36	1005453C-18A	10				2311		12.2mL
11	✓	37	-18B	11				2335		14.3mL
12	✓	38	-24A	12				2359		14.3mL
13	✓	39	-24B	13			5/29/10	0023		15.1mL
14	✓	40	-25A	14				0047		11.2mL
15	✓	41	-25B	15				0110		15.2mL
16	✓	42	-26A	16				0134		12.7mL
17	✓	43	-26B	17				0158		14.3mL
18	✓	44	-27A	18				0222		13.6mL
19	✓	45	5/28/10 -28 27B	19				0246		14.2mL
20	✓	46	-28A	20				0309		13.3mL

Calculation Check: File ID: K052829 Compound: D4 Initials: W

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample X Conc. Int. Standard / ICAL $RRF_{average}$ = (1156520) / (305819) X (40.0) / (3.39686) = 44.5

µG/Sample = nG On Column X 1000 µL Final Vol. X D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (44.5) X (1000) X (1.00) / (1.0) (1000) = 44.5

Reported Result = 44.5

Signed

6/11/10
Date

@Air Toxics ~~Ltd~~
Method: Siloxanes/ TO-13

MSD-K

Logbook: 1773

141

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	
51	30.00 - 60.00% of mass 198	
68	Less than 2.00% of mass 69	( ) [1]
69	Less than 99.90% of mass 198	
70	Less than 2.00% of mass 69	( ) [1]
127	40.00 – 60.00% of mass 198	
197	Less than 1.00% of mass 198	
199	5.00 - 9.00% of mass 198	
275	10.00 - 30.00% of mass 198	
365	Greater than 1.00% of mass 198	
441	Present, but less than mass 443	
442	40.00 - 100.00% of mass 198	
443	17.00 - 23.00% of mass 442	( ) [2]

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Injection Volume: 1.0 µL con't from Pg. 140

DFTPP File ID: _____
DFTPP Injection Date: _____
DFTPP Injection Time _____

IS	Area Counts
1,4-Dichlorobenzene-d_4:	
Naphthalene-d_8:	
Acenaphthene-d_{10}:	
Phenanthrene-d_{10}:	
Chrysene-d_{12}:	
Perylene-d_{12}:	
~~Benzene-d_6~~:	
Toluene-d_8:	
4-Bromofluorobenzene:	

This Tune Check Applies To The Following Samples, Blanks And Standards: W 5/28/10

	Use	File #	Sample / Client Name	Vial #	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	K0528 47	1005453C-28B	21	1.00	W	5/29/10	0333	W	15.9 mL
2	✓	48	1005522D-08A	22				0357		13.2 mL
3	✓	49	-08AA	22				0421		
4	✓	50	-08B	23				0444		13.1 mL
5	✓	51	-08BB	~~24~~ 23 W 5/28/10				0508		
6	✓	52	-09A	24				0532		12.9 mL
7	X	53	-09B	25				0556		15J
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Calculation Check: File ID:_____ Compound:_____ *Initials:* _____

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample X Conc. Int. Standard / ICAL $RRF_{average}$ = ( ) X ( ) / ( ) ( ) =

µG/Sample = nG On Column X 1000 µL Final Vol. X D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = ( ) X ( ) X ( ) / ( ) W 6/11/10 =

Reported Result = _____

_____ *Signed*

6/11/10 *Date*

Air Toxics Ltd.

Data file : /chem/msdk.i/k23mar10.b/k032306.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 23-MAR-2010 16:07
Operator : ss Inst ID: msdk.i
Smp Info : ;1869-6A-50;Tune
Misc Info :
Comment :
Method : /chem/msdk.i/k23mar10.b/dftpp.m
Meth Date : 23-Mar-2010 13:58 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp					CAS #:		
7.766	7.836 (0.000)	198	453440		100.00	100.00 - 100.00	100.00
7.766	7.836 (0.000)	51	246106		30.00	30.00 - 60.00	54.28
7.766	7.836 (0.000)	68	485		0.00	0.00 - 2.00	0.29
7.766	7.836 (0.000)	69	164750		0.00	0.00 - 99.90	36.33
7.766	7.836 (0.000)	70	741		0.00	0.00 - 2.00	0.45
7.766	7.836 (0.000)	127	192629		40.00	40.00 - 60.00	42.48
7.766	7.836 (0.000)	197	0		0.00	0.00 - 1.00	0.00
7.766	7.836 (0.000)	199	30240		5.00	5.00 - 9.00	6.67
7.766	7.836 (0.000)	275	101986		10.00	10.00 - 30.00	22.49
7.766	7.836 (0.000)	365	13830		1.00	1.00 - 0.00	3.05
7.766	7.836 (0.000)	441	62012		0.01	0.01 - 99.99	76.38
7.766	7.836 (0.000)	442	422045		40.00	40.00 - 100.00	93.08
7.766	7.836 (0.000)	443	81189		17.00	17.00 - 23.00	19.24

Data File: /chem/msdk.i/k23mar10.b/k032306.d

Page 1

Date : 23-MAR-2010 16:07

Client ID: DFTPP 50ng

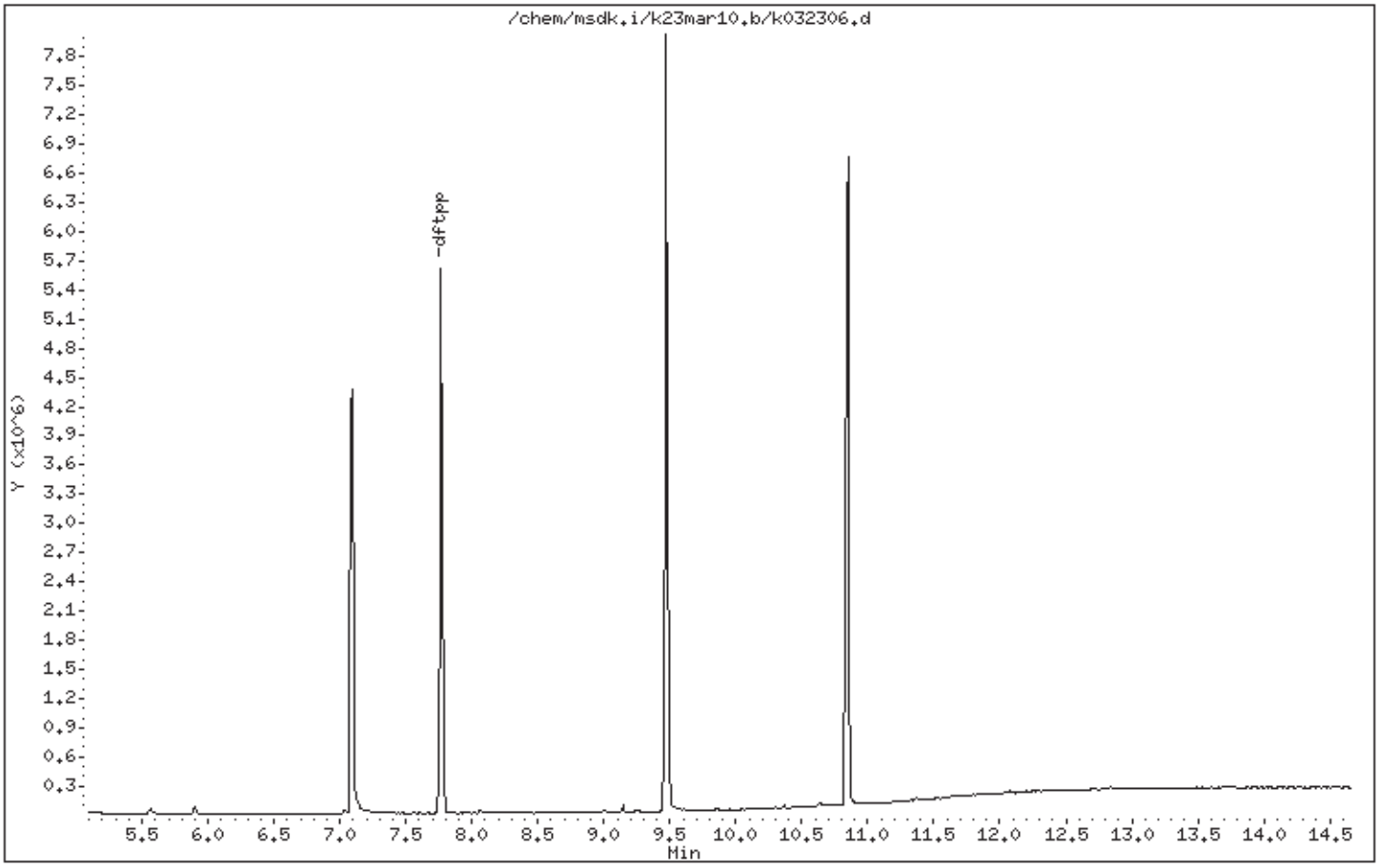
Instrument: msdk.i

Sample Info: ;1869-6A-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25



Data File: /chem/msdk.i/k23mar10.b/k032306.d

Date : 23-MAR-2010 16:07

Client ID: DFTPP 50ng

Instrument: msdk.i

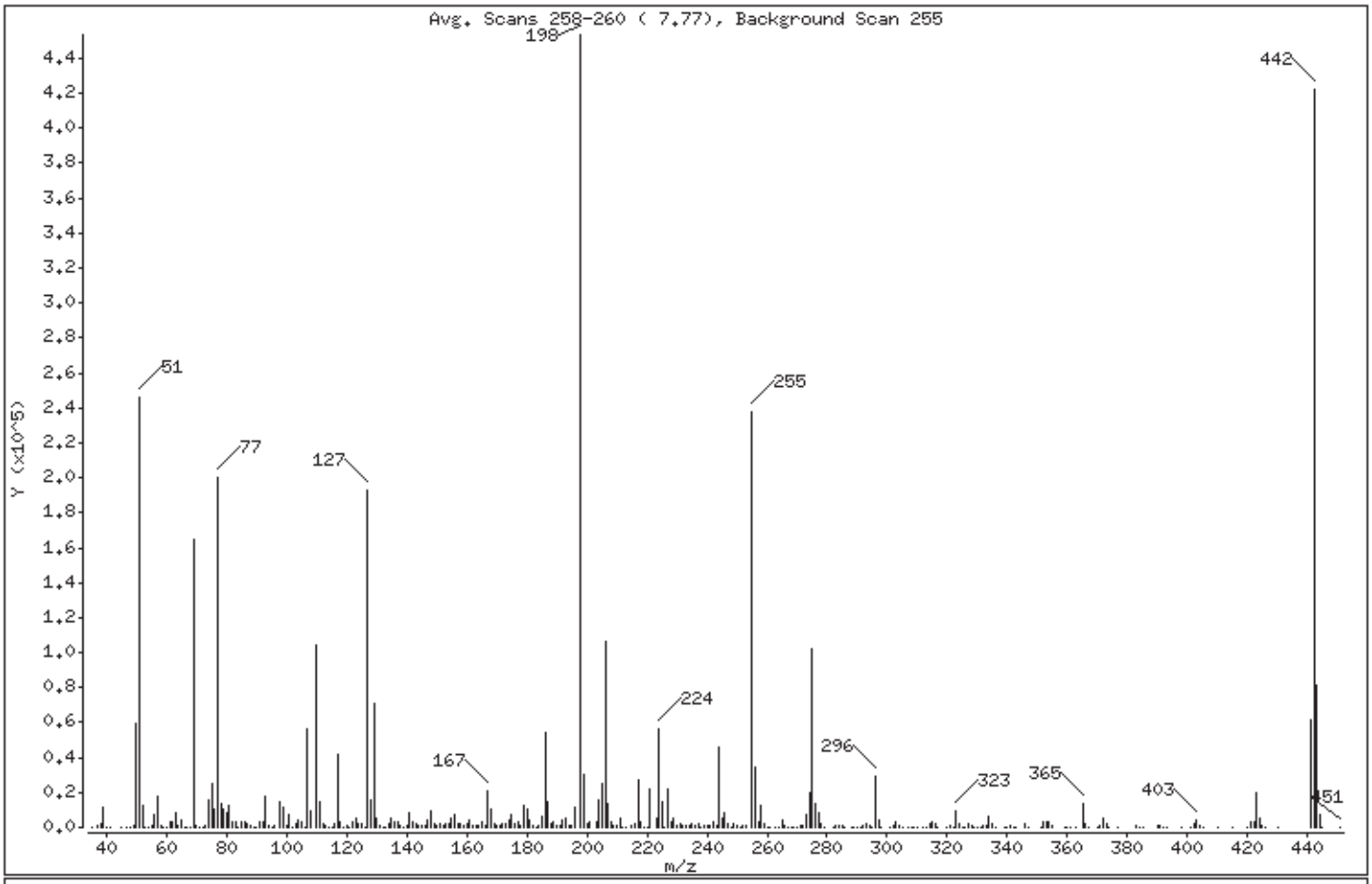
Sample Info: ;1869-6A-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.28
68	Less than 2.00% of mass 69	0.11 (0.29)
69	Less than 99.90% of mass 198	36.33
70	Less than 2.00% of mass 69	0.16 (0.45)
127	40.00 - 60.00% of mass 198	42.48
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 30.00% of mass 198	22.49
365	Greater than 1.00% of mass 198	3.05
441	Present, but less than mass 443	13.68
442	40.00 - 100.00% of mass 198	93.08
443	17.00 - 23.00% of mass 442	17.91 (19.24)

Date : 23-MAR-2010 16:07

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6A-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k032306.d
Spectrum: Avg. Scans 258-260 (7.77), Background Scan 255
Location of Maximum: 198.00
Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	50	126.00	228	212.00	273	305.00	279
37.00	711	127.00	192576	213.00	294	307.00	56
38.00	1870	128.00	15199	215.00	969	308.00	373
39.00	11839	129.00	70728	216.00	2368	309.00	336
40.00	269	130.00	5723	217.00	27328	310.00	376
41.00	423	131.00	1084	218.00	3586	312.00	69
45.00	406	132.00	436	219.00	473	313.00	307
47.00	176	133.00	185	220.00	135	314.00	1668
48.00	239	134.00	2013	221.00	21904	315.00	3108
49.00	618	135.00	5488	223.00	5567	316.00	1990
50.00	59456	136.00	2680	224.00	56760	317.00	495
51.00	246080	137.00	3383	225.00	15014	320.00	286
52.00	13008	138.00	731	226.00	514	321.00	1279
53.00	353	139.00	462	227.00	22104	322.00	306
54.00	231	140.00	544	228.00	3593	323.00	9621
55.00	1172	141.00	8160	229.00	5067	324.00	1792
56.00	7375	142.00	3034	230.00	900	325.00	238
57.00	17600	143.00	1733	231.00	2055	326.00	190
58.00	996	144.00	549	232.00	553	327.00	2157
59.00	71	145.00	554	233.00	550	328.00	1005
60.00	390	146.00	1392	234.00	1240	329.00	133
61.00	3135	147.00	3973	235.00	1737	330.00	50
62.00	2895	148.00	9391	236.00	1341	331.00	54
63.00	8479	149.00	2050	237.00	2552	332.00	919
64.00	1473	150.00	623	238.00	478	333.00	981
65.00	4453	151.00	1680	239.00	1075	334.00	6013
66.00	515	152.00	1015	240.00	805	335.00	1670
67.00	448	153.00	2589	241.00	1465	336.00	261
68.00	485	154.00	2021	242.00	3118	339.00	187
69.00	164736	155.00	4767	243.00	565	340.00	79
70.00	741	156.00	7581	244.00	45416	341.00	1196
71.00	52	157.00	1612	245.00	5700	342.00	364
72.00	65	158.00	1664	246.00	8647	343.00	55
73.00	1224	159.00	1156	247.00	1855	346.00	2390
74.00	15891	160.00	2482	248.00	507	347.00	456

Date : 23-MAR-2010 16:07

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6A-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k032306.d
Spectrum: Avg. Scans 258-260 (7.77), Background Scan 255
Location of Maximum: 198.00
Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	25208	161.00	4047	249.00	1769	351.00	125
76.00	10470	162.00	1374	250.00	855	352.00	3218
77.00	200448	163.00	534	251.00	492	353.00	2614
78.00	13197	164.00	614	252.00	673	354.00	3327
79.00	10663	165.00	2940	253.00	812	355.00	761
80.00	7895	166.00	649	255.00	237440	359.00	184
81.00	12138	167.00	20664	256.00	34824	360.00	110
82.00	2833	168.00	10413	257.00	3003	361.00	141
83.00	3074	169.00	1588	258.00	12537	363.00	53
84.00	128	170.00	679	259.00	2248	365.00	13830
85.00	2817	171.00	1034	260.00	388	366.00	2127
86.00	3131	172.00	1906	261.00	505	367.00	55
87.00	1739	173.00	1884	263.00	158	370.00	245
88.00	776	174.00	4113	264.00	30	371.00	928
89.00	352	175.00	7668	265.00	4234	372.00	5563
90.00	57	176.00	2391	266.00	622	373.00	1652
91.00	2939	177.00	3491	267.00	69	374.00	365
92.00	3025	178.00	1123	268.00	66	377.00	175
93.00	17336	179.00	12602	269.00	101	383.00	1418
94.00	1305	180.00	10128	270.00	421	384.00	459
95.00	277	181.00	4517	271.00	833	385.00	308
96.00	1154	182.00	905	272.00	741	390.00	950
98.00	14599	183.00	413	273.00	7262	391.00	592
99.00	11853	184.00	1157	274.00	19768	392.00	411
100.00	1179	185.00	6541	275.00	101984	393.00	152
101.00	6812	186.00	54672	276.00	13637	398.00	51
102.00	327	187.00	14868	277.00	8246	401.00	452
103.00	2394	188.00	2060	278.00	1594	402.00	2322
104.00	3968	189.00	2711	279.00	462	403.00	4538
105.00	3394	190.00	552	282.00	415	404.00	1407
106.00	168	191.00	949	283.00	847	405.00	340
107.00	56120	192.00	4169	284.00	912	410.00	60
108.00	9022	193.00	5461	285.00	1547	415.00	222
110.00	104528	194.00	1375	286.00	321	420.00	77
111.00	15031	195.00	967	288.00	59	421.00	2623

Date : 23-MAR-2010 16:07

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6A-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k032306.d
Spectrum: Avg. Scans 258-260 (7.77), Background Scan 255
Location of Maximum: 198.00
Number of points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	1908	196.00	11086	289.00	321	422.00	2998
113.00	686	198.00	453440	290.00	337	423.00	19976
114.00	310	199.00	30240	291.00	312	424.00	5199
115.00	276	200.00	1978	292.00	586	425.00	667
116.00	1908	201.00	2782	293.00	2174	426.00	155
117.00	41400	203.00	2635	294.00	601	430.00	51
118.00	2657	204.00	15190	295.00	243	441.00	62008
119.00	458	205.00	24928	296.00	28976	442.00	422016
120.00	1048	206.00	106152	297.00	4112	443.00	81184
121.00	61	207.00	13223	298.00	486	444.00	7631
122.00	2989	208.00	3377	301.00	496	445.00	394
123.00	5000	209.00	976	302.00	771	451.00	53
124.00	2207	210.00	806	303.00	3379		
125.00	2584	211.00	4974	304.00	1042		

Air Toxics Ltd.

Data file : /chem/msdk.i/k20may10.b/k052003.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 20-MAY-2010 09:57
Operator : ss Inst ID: msdk.i
Smp Info : ;1869-6B-50;Tune
Misc Info :
Comment :
Method : /chem/msdk.i/k20may10.b/dftpp.m
Meth Date : 20-May-2010 09:41 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
1 dftpp					CAS #:		
7.660	7.836 (0.000)	198	267370			100.00- 100.00	100.00
7.660	7.836 (0.000)	51	155078			30.00- 60.00	58.00
7.660	7.836 (0.000)	68	0			0.00- 2.00	0.00
7.660	7.836 (0.000)	69	97387			0.00- 99.90	36.42
7.660	7.836 (0.000)	70	399			0.00- 2.00	0.41
7.660	7.836 (0.000)	127	119784			40.00- 60.00	44.80
7.660	7.836 (0.000)	197	1053			0.00- 1.00	0.39
7.660	7.836 (0.000)	199	18299			5.00- 9.00	6.84
7.660	7.836 (0.000)	275	63146			10.00- 30.00	23.62
7.660	7.836 (0.000)	365	10055			1.00- 0.00	3.76
7.660	7.836 (0.000)	441	19188			0.01- 99.99	48.61
7.660	7.836 (0.000)	442	208341			40.00- 100.00	77.92
7.660	7.836 (0.000)	443	39471			17.00- 23.00	18.95

Data File: /chem/msdk.i/k20may10.b/k052003.d

Date : 20-MAY-2010 09:57

Client ID: DFTPP 50ng

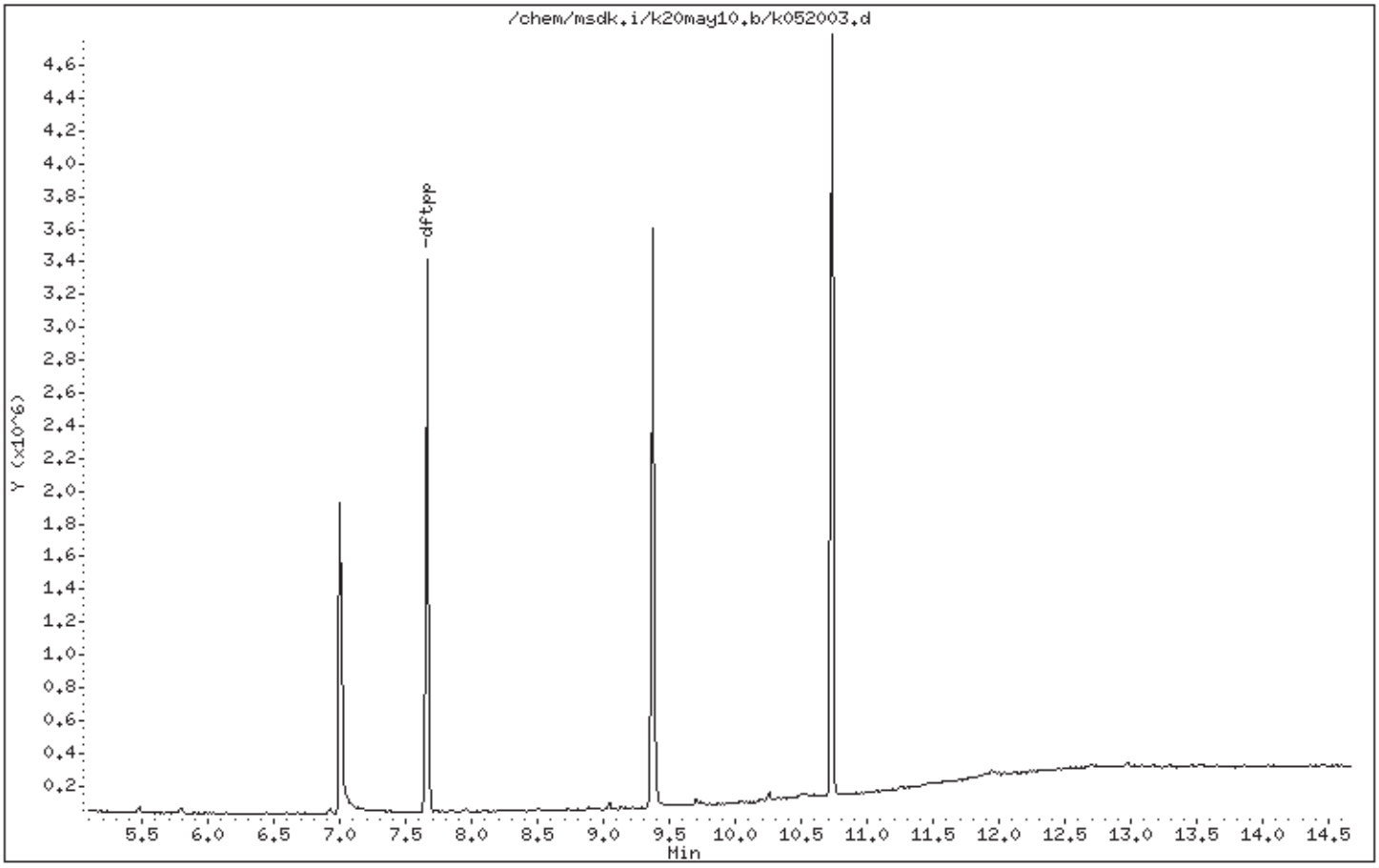
Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25



Data File: /chem/msdk.i/k20may10.b/k052003.d

Date : 20-MAY-2010 09:57

Client ID: DFTPP 50ng

Instrument: msdk.i

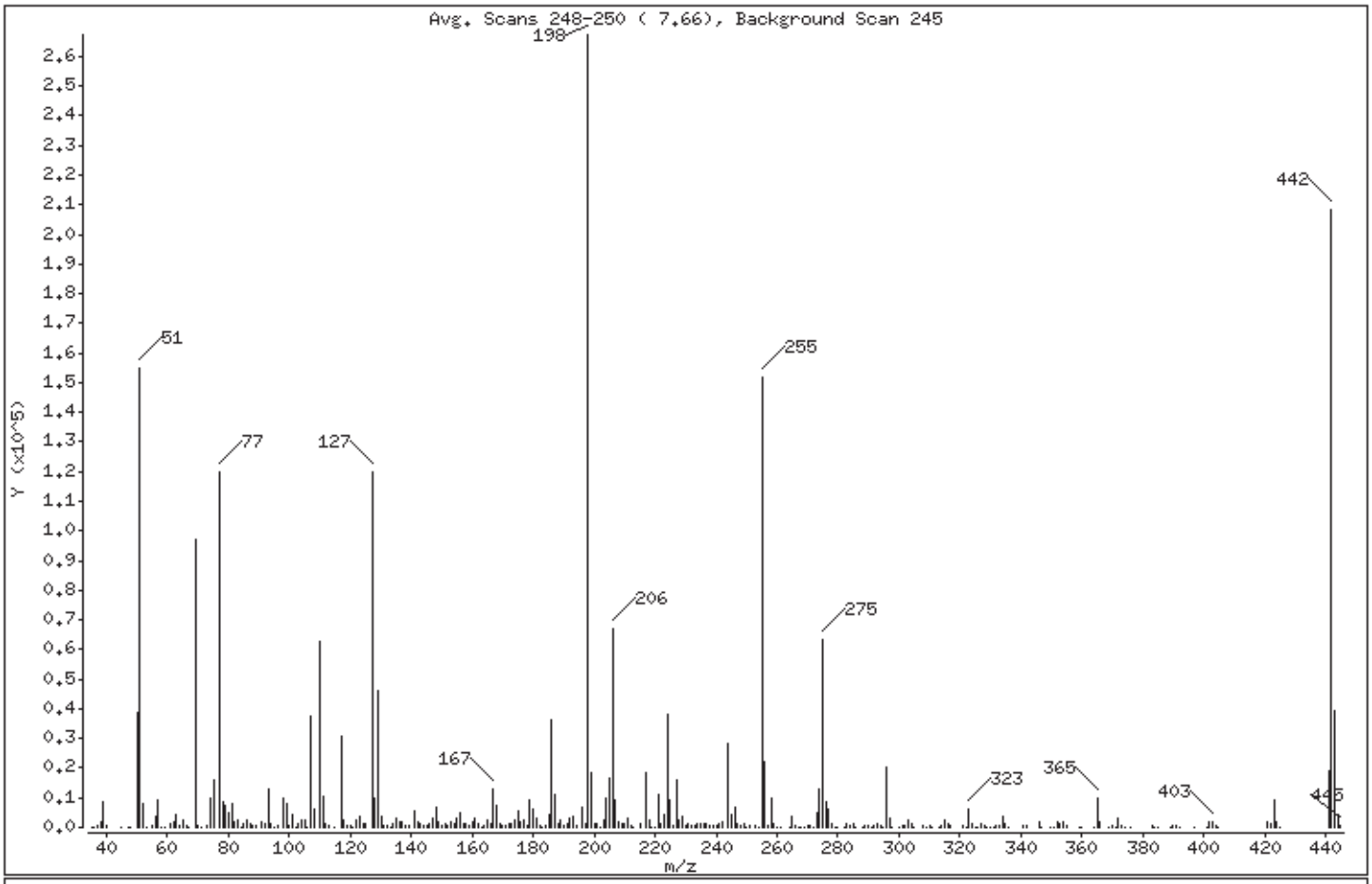
Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	58.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 99.90% of mass 198	36.42
70	Less than 2.00% of mass 69	0.15 (0.41)
127	40.00 - 60.00% of mass 198	44.80
197	Less than 1.00% of mass 198	0.39
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	23.62
365	Greater than 1.00% of mass 198	3.76
441	Present, but less than mass 443	7.18
442	40.00 - 100.00% of mass 198	77.92
443	17.00 - 23.00% of mass 442	14.76 (18.95)

Date : 20-MAY-2010 09:57

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052003.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 245
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	155	131.00	662	212.00	370	300.00	67
36.00	189	132.00	474	213.00	303	301.00	397
37.00	729	133.00	196	215.00	956	302.00	396
38.00	1628	134.00	1183	217.00	18608	303.00	2441
39.00	8665	135.00	3327	218.00	2256	304.00	936
40.00	599	136.00	1585	219.00	275	305.00	116
45.00	214	137.00	2061	220.00	61	308.00	385
47.00	83	138.00	474	221.00	11273	309.00	189
48.00	24	139.00	315	222.00	1483	310.00	352
50.00	38704	141.00	5539	223.00	4109	311.00	67
51.00	155072	142.00	1932	224.00	38056	313.00	293
52.00	8123	143.00	1380	225.00	9279	314.00	437
53.00	94	144.00	491	226.00	473	315.00	2562
55.00	377	145.00	663	227.00	15984	316.00	1313
56.00	3803	146.00	1068	228.00	2299	317.00	311
57.00	9205	147.00	3040	229.00	3797	321.00	623
58.00	270	148.00	6793	230.00	511	322.00	115
59.00	139	149.00	1540	231.00	1440	323.00	5957
61.00	1365	150.00	516	232.00	310	324.00	1156
62.00	1827	151.00	1255	233.00	370	325.00	166
63.00	4481	152.00	677	234.00	1061	326.00	70
64.00	319	153.00	1920	235.00	1303	327.00	1253
65.00	2657	154.00	1278	236.00	932	328.00	797
66.00	389	155.00	3117	237.00	1461	329.00	210
67.00	268	156.00	4770	238.00	390	330.00	124
69.00	97384	157.00	1236	239.00	652	331.00	53
70.00	399	158.00	1020	240.00	720	332.00	573
71.00	167	159.00	875	241.00	932	333.00	535
73.00	712	160.00	1596	242.00	1972	334.00	3868
74.00	9548	161.00	3228	244.00	28560	335.00	1314
75.00	15901	162.00	1189	245.00	4359	336.00	108
77.00	119576	163.00	295	246.00	6453	341.00	799
78.00	8497	164.00	316	247.00	1299	342.00	335
79.00	7204	165.00	2158	248.00	540	346.00	1685
80.00	5118	166.00	1117	249.00	967	347.00	266

Date : 20-MAY-2010 09:57

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052003.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 245
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	7888	167.00	12762	250.00	279	350.00	76
82.00	2055	168.00	7253	251.00	609	351.00	132
83.00	2263	169.00	1309	253.00	821	352.00	1926
84.00	196	170.00	556	254.00	97	353.00	1326
85.00	1503	171.00	632	255.00	151616	354.00	1819
86.00	2715	172.00	1085	256.00	22024	355.00	753
87.00	1020	173.00	1488	257.00	528	359.00	144
88.00	677	174.00	2621	258.00	9625	360.00	71
89.00	352	175.00	5526	259.00	1307	364.00	60
91.00	1820	176.00	1605	260.00	195	365.00	10055
92.00	980	177.00	2213	261.00	305	366.00	1689
93.00	12753	178.00	558	264.00	274	369.00	77
94.00	1389	179.00	9332	265.00	3990	370.00	381
95.00	119	180.00	6270	266.00	401	371.00	285
96.00	632	181.00	2834	267.00	144	372.00	3338
98.00	9679	182.00	526	268.00	120	373.00	803
99.00	8036	183.00	162	269.00	120	374.00	112
100.00	768	184.00	599	270.00	366	376.00	66
101.00	4243	185.00	4451	271.00	462	383.00	915
102.00	162	186.00	36056	272.00	282	384.00	234
103.00	1359	187.00	10838	273.00	4616	385.00	102
104.00	2552	188.00	1437	274.00	12997	389.00	126
105.00	2589	189.00	2363	275.00	63144	390.00	716
106.00	141	190.00	482	276.00	8372	391.00	466
107.00	37376	191.00	986	277.00	6371	392.00	265
108.00	5850	192.00	3098	278.00	1097	397.00	56
110.00	62952	193.00	3593	279.00	161	401.00	255
111.00	10217	194.00	909	280.00	60	402.00	1541
112.00	1322	196.00	6995	282.00	157	403.00	1912
113.00	611	197.00	1053	283.00	1017	404.00	825
115.00	174	198.00	267328	284.00	599	405.00	55
117.00	30632	199.00	18296	285.00	1029	421.00	1719
118.00	2252	200.00	1345	286.00	126	422.00	1530
119.00	448	201.00	1091	288.00	62	423.00	9399
120.00	554	202.00	233	289.00	331	424.00	1963

Date : 20-MAY-2010 09:57

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052003.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 245
Location of Maximum: 198.00
Number of points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	53	203.00	2306	290.00	399	425.00	268
122.00	2344	204.00	9566	291.00	80	441.00	19184
123.00	3431	205.00	16648	292.00	567	442.00	208320
124.00	1461	206.00	66800	293.00	1450	443.00	39464
125.00	1406	207.00	9261	294.00	616	444.00	3505
127.00	119784	208.00	2136	295.00	217	445.00	412
128.00	9592	209.00	982	296.00	20464		
129.00	45832	210.00	1188	297.00	3019		
130.00	3914	211.00	3018	298.00	152		

Air Toxics Ltd.

Data file : /chem/msdk.i/k26may10.b/k052602.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 26-MAY-2010 09:33
Operator : ss Inst ID: msdk.i
Smp Info : ;1869-6B-50;Tune
Misc Info :
Comment :
Method : /chem/msdk.i/k26may10.b/dftpp.m
Meth Date : 26-May-2010 09:34 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
1 dftpp					CAS #:		
7.659	7.836 (0.000)	198	261888			100.00- 100.00	100.00
7.659	7.836 (0.000)	51	125173			30.00- 60.00	47.80
7.659	7.836 (0.000)	68	0			0.00- 2.00	0.00
7.659	7.836 (0.000)	69	93598			0.00- 99.90	35.74
7.659	7.836 (0.000)	70	141			0.00- 2.00	0.15
7.659	7.836 (0.000)	127	117546			40.00- 60.00	44.88
7.659	7.836 (0.000)	197	616			0.00- 1.00	0.24
7.659	7.836 (0.000)	199	17011			5.00- 9.00	6.50
7.659	7.836 (0.000)	275	62021			10.00- 30.00	23.68
7.659	7.836 (0.000)	365	10148			1.00- 0.00	3.87
7.659	7.836 (0.000)	441	25385			0.01- 99.99	76.86
7.659	7.836 (0.000)	442	179226			40.00- 100.00	68.44
7.659	7.836 (0.000)	443	33028			17.00- 23.00	18.43

Data File: /chem/msdk.i/k26may10.b/k052602.d

Page 1

Date : 26-MAY-2010 09:33

Client ID: DFTPP 50ng

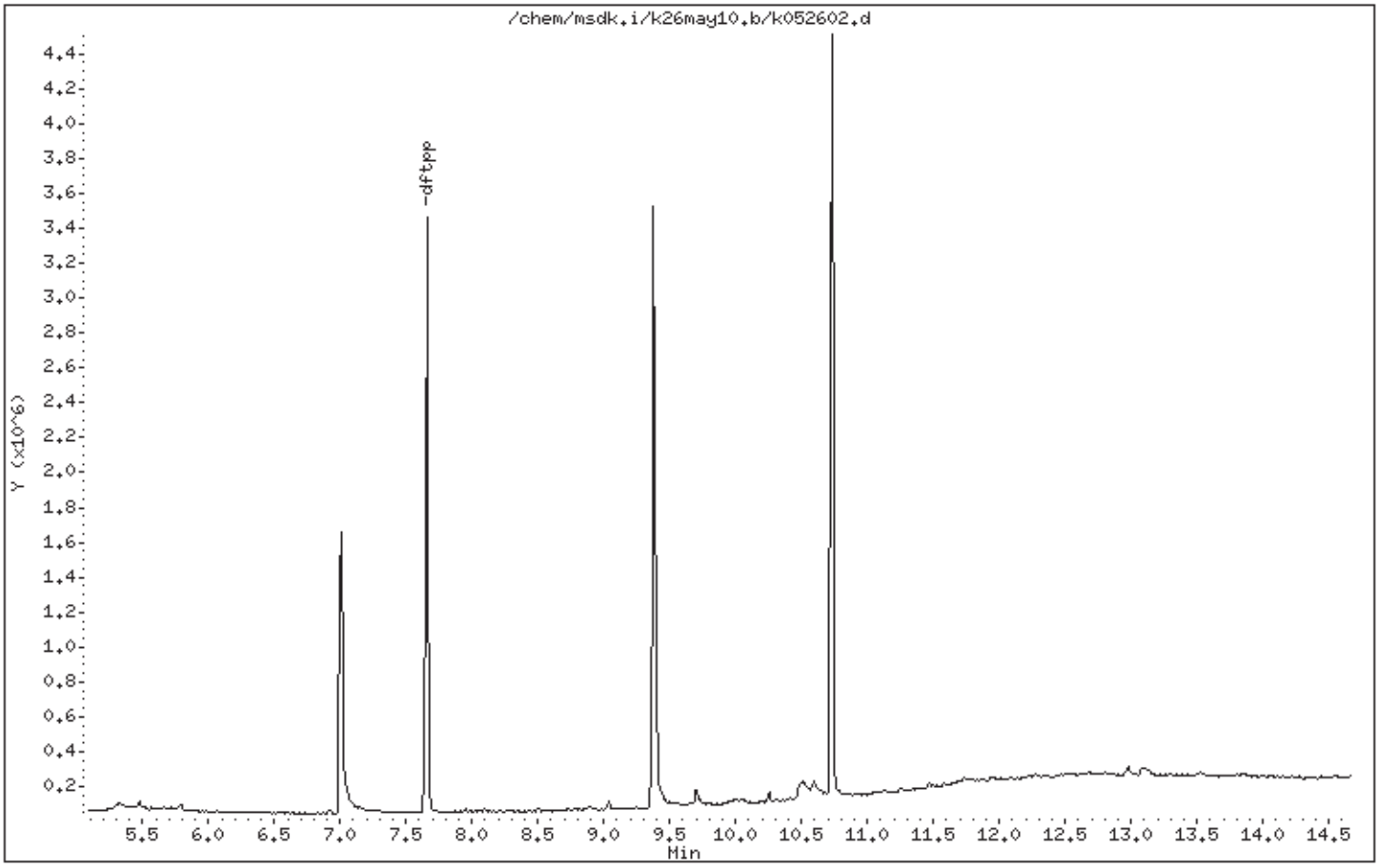
Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25



Data File: /chem/msdk.i/k26may10.b/k052602.d

Date : 26-MAY-2010 09:33

Client ID: DFTPP 50ng

Instrument: msdk.i

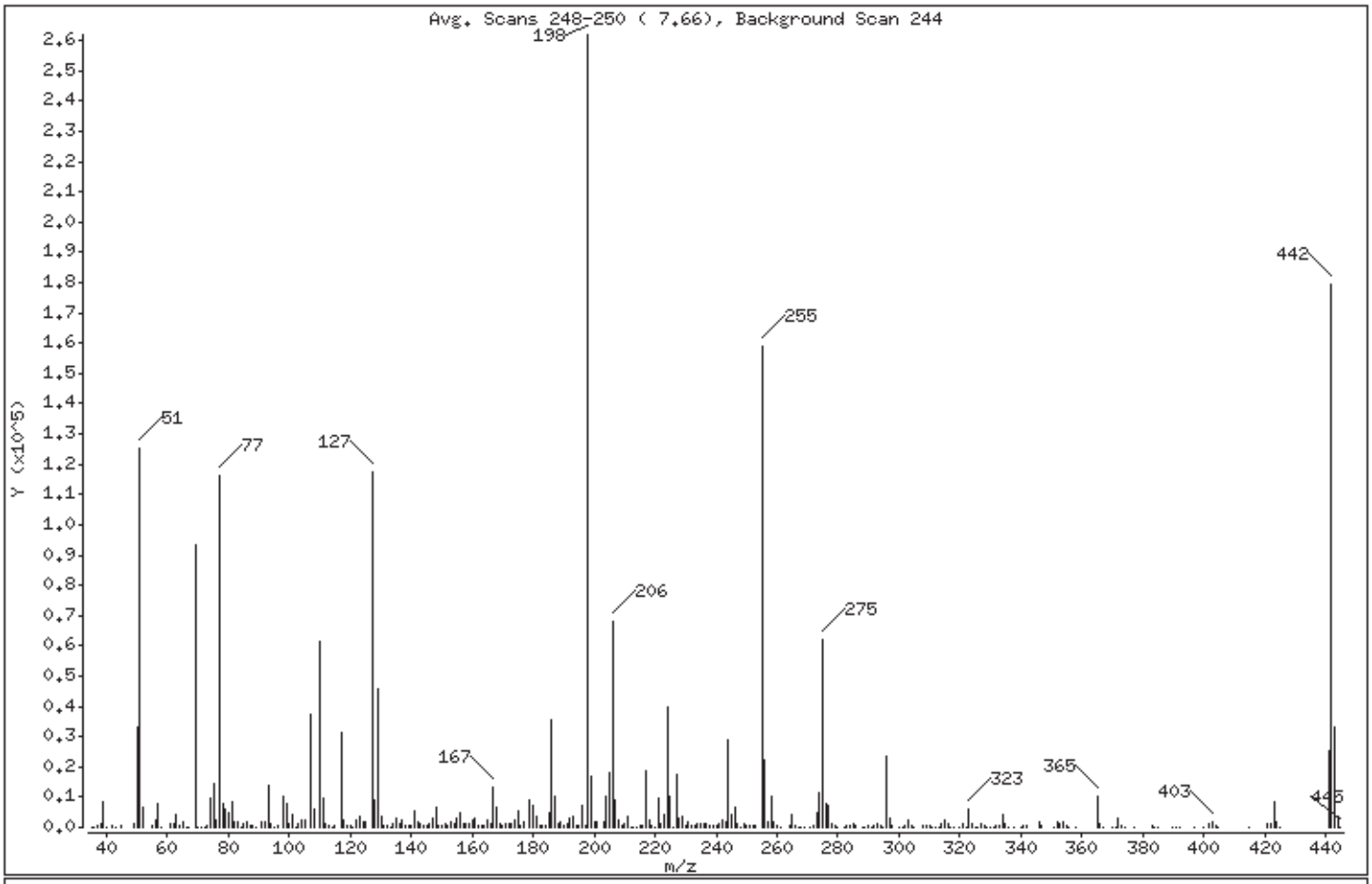
Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	47.80
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 99.90% of mass 198	35.74
70	Less than 2.00% of mass 69	0.05 (0.15)
127	40.00 - 60.00% of mass 198	44.88
197	Less than 1.00% of mass 198	0.24
199	5.00 - 9.00% of mass 198	6.50
275	10.00 - 30.00% of mass 198	23.68
365	Greater than 1.00% of mass 198	3.87
441	Present, but less than mass 443	9.69
442	40.00 - 100.00% of mass 198	68.44
443	17.00 - 23.00% of mass 442	12.61 (18.43)

Date : 26-MAY-2010 09:33

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052602.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 244
Location of Maximum: 198.00
Number of points: 319

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	70	131.00	574	213.00	194	300.00	110
36.00	61	132.00	476	214.00	191	301.00	263
37.00	538	133.00	101	215.00	619	302.00	517
38.00	1399	134.00	1017	216.00	747	303.00	2609
39.00	8527	135.00	3130	217.00	18496	304.00	795
40.00	110	136.00	1395	218.00	2557	305.00	166
42.00	431	137.00	2411	219.00	545	308.00	471
43.00	2	138.00	645	220.00	67	309.00	328
45.00	444	139.00	309	221.00	9441	310.00	569
49.00	968	140.00	342	222.00	996	311.00	63
50.00	33136	141.00	5486	223.00	4304	312.00	83
51.00	125168	142.00	2038	224.00	39544	313.00	250
52.00	6534	143.00	1436	225.00	10207	314.00	1016
55.00	852	144.00	518	226.00	212	315.00	2698
56.00	2663	145.00	391	227.00	17528	316.00	1305
57.00	7589	146.00	1273	228.00	2748	317.00	232
58.00	156	147.00	3294	229.00	3624	318.00	66
61.00	1447	148.00	6596	230.00	494	320.00	54
62.00	1357	149.00	850	231.00	1565	321.00	1014
63.00	4217	150.00	325	232.00	384	322.00	284
64.00	562	151.00	916	233.00	388	323.00	6265
65.00	1762	152.00	532	234.00	1017	324.00	1019
66.00	269	153.00	1726	235.00	1350	325.00	103
67.00	216	154.00	1359	236.00	972	326.00	277
69.00	93592	155.00	3105	237.00	1468	327.00	1234
70.00	141	156.00	4956	238.00	376	328.00	723
71.00	55	157.00	917	239.00	834	329.00	75
72.00	212	158.00	1045	240.00	679	330.00	56
73.00	510	159.00	953	241.00	1016	331.00	91
74.00	9788	160.00	2115	242.00	2386	332.00	547
75.00	14692	161.00	3104	243.00	1831	333.00	363
76.00	2666	162.00	895	244.00	28904	334.00	4177
77.00	116056	163.00	350	245.00	4029	335.00	1025
78.00	8111	164.00	477	246.00	6697	336.00	163
79.00	6146	165.00	2160	247.00	1289	338.00	50

Date : 26-MAY-2010 09:33

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052602.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 244
Location of Maximum: 198.00
Number of points: 319

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	5021	166.00	965	248.00	266	340.00	290
81.00	8256	167.00	13028	249.00	1137	341.00	818
82.00	1507	168.00	6741	250.00	318	342.00	316
83.00	1832	169.00	1463	251.00	631	346.00	1820
84.00	106	170.00	598	252.00	472	347.00	535
85.00	937	171.00	1096	253.00	590	351.00	61
86.00	2005	172.00	1266	255.00	158912	352.00	1951
87.00	573	173.00	1497	256.00	22120	353.00	1226
88.00	311	174.00	2680	257.00	1824	354.00	2021
89.00	34	175.00	5400	258.00	10415	355.00	388
91.00	1893	176.00	839	259.00	1628	356.00	82
92.00	1904	177.00	2033	260.00	335	358.00	105
93.00	13801	179.00	8836	261.00	269	365.00	10148
94.00	1277	180.00	7096	264.00	556	366.00	1441
95.00	44	181.00	3389	265.00	4320	367.00	122
96.00	783	182.00	715	266.00	544	370.00	213
98.00	10031	183.00	527	267.00	188	371.00	215
99.00	7891	184.00	894	268.00	71	372.00	2935
100.00	931	185.00	4595	269.00	81	373.00	795
101.00	4457	186.00	35768	271.00	288	374.00	82
102.00	217	187.00	10305	272.00	438	377.00	79
103.00	1015	188.00	918	273.00	4902	383.00	784
104.00	2330	189.00	1885	274.00	11510	384.00	281
105.00	2476	190.00	545	275.00	62016	385.00	166
107.00	37600	191.00	1293	276.00	7848	390.00	299
108.00	6179	192.00	3137	277.00	7084	391.00	299
110.00	61672	193.00	3685	278.00	1107	392.00	90
111.00	9817	194.00	726	279.00	352	397.00	160
112.00	1380	195.00	560	280.00	66	400.00	191
113.00	335	196.00	7371	282.00	88	402.00	1181
114.00	267	197.00	616	283.00	668	403.00	2105
115.00	585	198.00	261888	284.00	626	404.00	633
117.00	31472	199.00	17008	285.00	1387	405.00	136
118.00	2334	200.00	1727	286.00	332	415.00	50
119.00	494	201.00	1602	288.00	234	421.00	1466

Date : 26-MAY-2010 09:33

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052602.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 244
Location of Maximum: 198.00
Number of points: 319

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	609	203.00	2057	289.00	278	422.00	1404
121.00	146	204.00	10419	290.00	320	423.00	8464
122.00	2130	205.00	18024	291.00	134	424.00	1618
123.00	3480	206.00	68088	292.00	318	425.00	106
124.00	1754	207.00	8979	293.00	1340	441.00	25384
125.00	1554	208.00	2349	294.00	341	442.00	179200
127.00	117544	209.00	796	295.00	197	443.00	33024
128.00	8954	210.00	1163	296.00	23680	444.00	2910
129.00	45672	211.00	3367	297.00	3307	445.00	215
130.00	3749	212.00	206	298.00	401		

Air Toxics Ltd.

Data file : /chem/msdk.i/k28may10.b/k052806.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 28-MAY-2010 11:14
Operator : ss Inst ID: msdk.i
Smp Info : ;1869-6B-50;Tune
Misc Info :
Comment :
Method : /chem/msdk.i/k28may10.b/dftpp.m
Meth Date : 28-May-2010 09:10 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)		
RT	EXP RT (REL RT)	MASS	RESPONSE			TARGET RANGE	RATIO
1 dftpp					CAS #:		
7.651	7.836 (0.000)	198	174466			100.00- 100.00	100.00
7.651	7.836 (0.000)	51	84373			30.00- 60.00	48.36
7.651	7.836 (0.000)	68	0			0.00- 2.00	0.00
7.651	7.836 (0.000)	69	61354			0.00- 99.90	35.17
7.651	7.836 (0.000)	70	479			0.00- 2.00	0.78
7.651	7.836 (0.000)	127	80677			40.00- 60.00	46.24
7.651	7.836 (0.000)	197	759			0.00- 1.00	0.44
7.651	7.836 (0.000)	199	12424			5.00- 9.00	7.12
7.651	7.836 (0.000)	275	39458			10.00- 30.00	22.62
7.651	7.836 (0.000)	365	6615			1.00- 0.00	3.79
7.651	7.836 (0.000)	441	16614			0.01- 99.99	79.91
7.651	7.836 (0.000)	442	109445			40.00- 100.00	62.73
7.651	7.836 (0.000)	443	20792			17.00- 23.00	19.00

Data File: /chem/msdk.i/k28may10.b/k052806.d

Date : 28-MAY-2010 11:14

Client ID: DFTPP 50ng

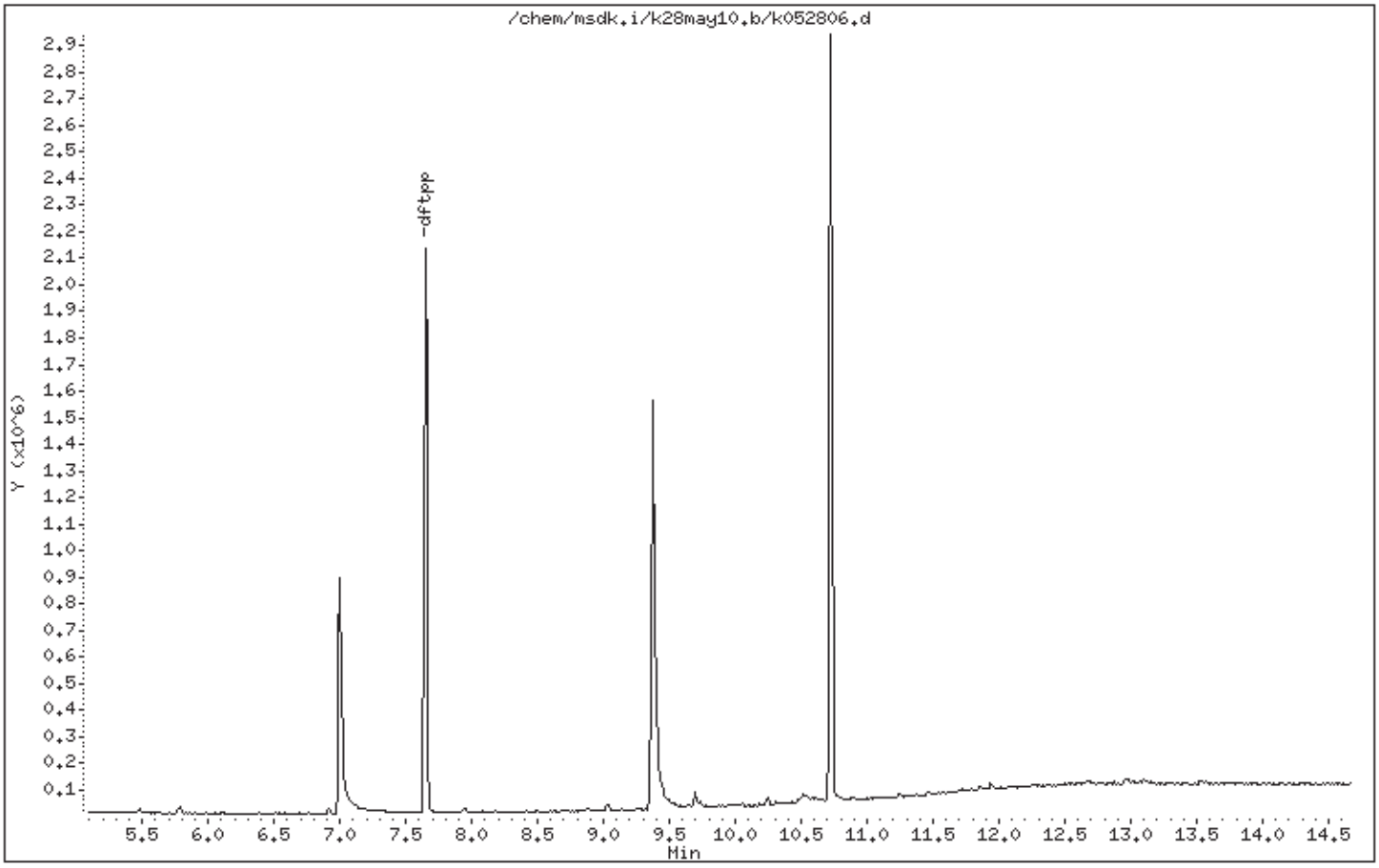
Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10.b/k052806.d

Date : 28-MAY-2010 11:14

Client ID: DFTPP 50ng

Instrument: msdk.i

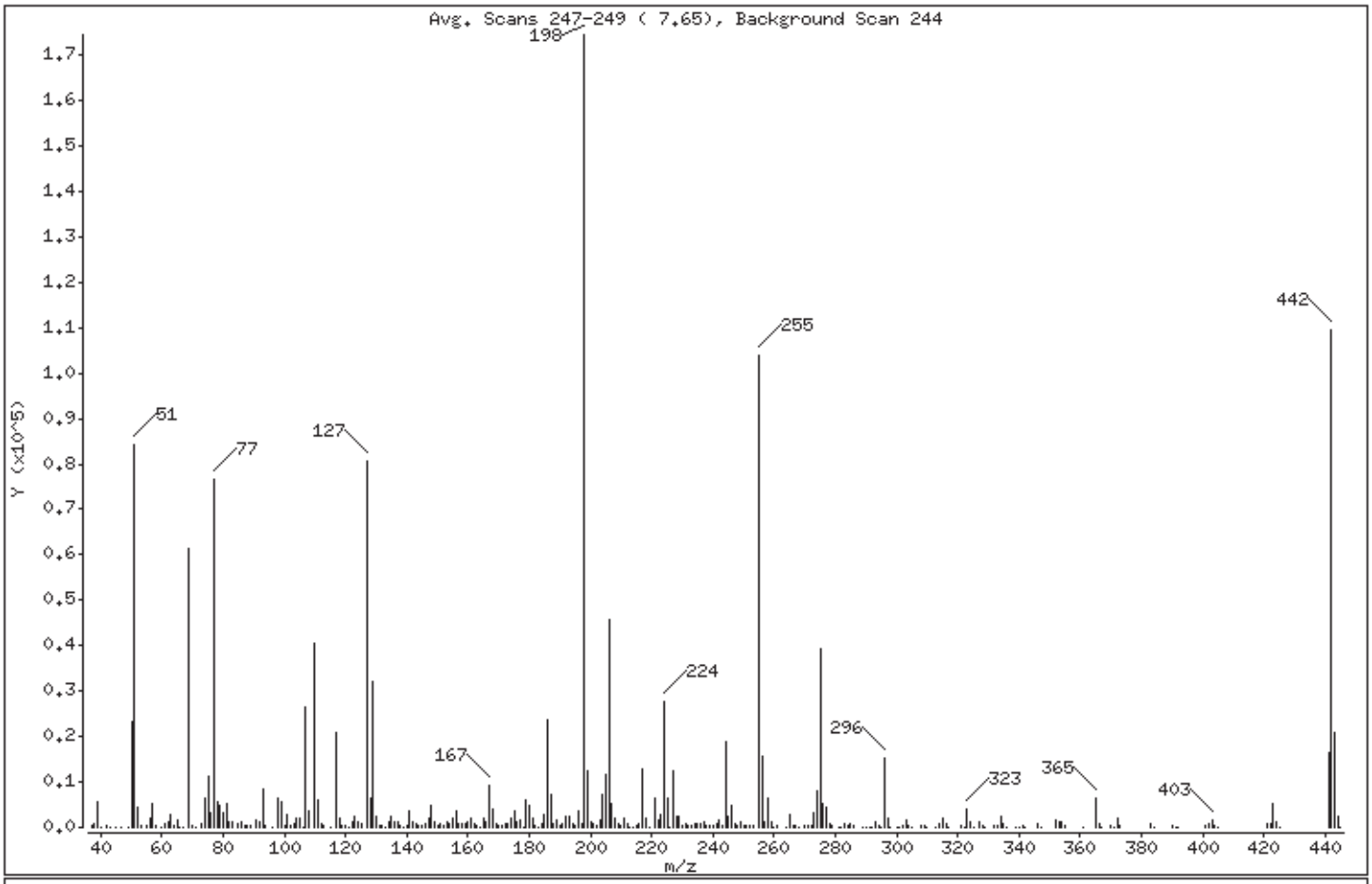
Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.36
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Less than 99.90% of mass 198	35.17
70	Less than 2.00% of mass 69	0.27 (0.78)
127	40.00 - 60.00% of mass 198	46.24
197	Less than 1.00% of mass 198	0.44
199	5.00 - 9.00% of mass 198	7.12
275	10.00 - 30.00% of mass 198	22.62
365	Greater than 1.00% of mass 198	3.79
441	Present, but less than mass 443	9.52
442	40.00 - 100.00% of mass 198	62.73
443	17.00 - 23.00% of mass 442	11.92 (19.00)

Date : 28-MAY-2010 11:14

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052806.d
Spectrum: Avg. Scans 247-249 (7.65), Background Scan 244
Location of Maximum: 198.00
Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	410	129.00	31936	205.00	11496	289.00	167
38.00	890	130.00	2514	206.00	45640	290.00	178
39.00	5628	131.00	503	207.00	5234	291.00	81
40.00	59	132.00	237	208.00	1850	292.00	149
42.00	324	133.00	65	209.00	695	293.00	1142
43.00	188	134.00	1015	210.00	532	294.00	227
45.00	68	135.00	2380	211.00	1989	295.00	107
47.00	10	136.00	1035	212.00	686	296.00	15385
49.00	160	137.00	1396	213.00	156	297.00	2190
50.00	23408	138.00	404	214.00	179	298.00	179
51.00	84368	139.00	136	215.00	591	300.00	67
52.00	4575	140.00	266	216.00	681	301.00	183
53.00	202	141.00	3806	217.00	13001	302.00	256
55.00	381	142.00	1222	218.00	1830	303.00	1782
56.00	2006	143.00	713	219.00	127	304.00	539
57.00	5196	144.00	454	221.00	6577	305.00	85
58.00	306	145.00	202	222.00	1755	308.00	219
60.00	112	146.00	694	223.00	2776	309.00	365
61.00	791	147.00	2127	224.00	27648	310.00	185
62.00	1105	148.00	4731	225.00	6349	313.00	134
63.00	2775	149.00	1187	226.00	87	314.00	700
64.00	329	150.00	431	227.00	12530	315.00	1936
65.00	1582	151.00	702	228.00	2466	316.00	926
66.00	116	152.00	311	229.00	2598	317.00	170
67.00	84	153.00	1199	230.00	446	321.00	532
69.00	61352	154.00	958	231.00	988	322.00	199
70.00	479	155.00	1875	232.00	247	323.00	4085
71.00	54	156.00	3412	233.00	235	324.00	1018
73.00	714	157.00	734	234.00	763	325.00	129
74.00	6612	158.00	682	235.00	770	327.00	1160
75.00	11164	159.00	642	236.00	913	328.00	484
76.00	3182	160.00	1249	237.00	1014	329.00	72
77.00	76648	161.00	1821	238.00	258	332.00	281
78.00	5773	162.00	665	239.00	563	333.00	445
79.00	4654	163.00	225	240.00	485	334.00	2411

Date : 28-MAY-2010 11:14

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052806.d
Spectrum: Avg. Scans 247-249 (7.65), Background Scan 244
Location of Maximum: 198.00
Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	3398	164.00	126	241.00	602	335.00	825
81.00	5413	165.00	1866	242.00	1424	336.00	96
82.00	1340	166.00	1344	243.00	570	339.00	66
83.00	1021	167.00	9221	244.00	18664	340.00	52
85.00	909	168.00	4186	245.00	2249	341.00	535
86.00	1257	169.00	686	246.00	4649	342.00	154
87.00	496	170.00	278	247.00	874	346.00	828
88.00	304	171.00	244	248.00	289	347.00	187
89.00	310	172.00	949	249.00	1061	352.00	1554
91.00	1452	173.00	936	250.00	223	353.00	1341
92.00	1270	174.00	1912	251.00	335	354.00	1332
93.00	8401	175.00	3432	252.00	364	355.00	252
94.00	577	176.00	1062	253.00	482	361.00	56
96.00	140	177.00	1452	255.00	104032	365.00	6615
98.00	6545	178.00	164	256.00	15658	366.00	925
99.00	5469	179.00	5975	257.00	1180	367.00	126
100.00	527	180.00	4756	258.00	6603	370.00	210
101.00	2872	181.00	1991	259.00	1189	371.00	138
102.00	348	182.00	375	260.00	185	372.00	1986
103.00	715	183.00	71	261.00	290	373.00	464
104.00	1913	184.00	640	264.00	32	383.00	612
105.00	1886	185.00	2998	265.00	2836	384.00	105
106.00	198	186.00	23784	266.00	291	390.00	238
107.00	26368	187.00	7307	267.00	202	391.00	172
108.00	3753	188.00	918	268.00	76	392.00	189
110.00	40680	189.00	1430	270.00	269	401.00	209
111.00	6104	190.00	423	271.00	407	402.00	750
112.00	979	191.00	741	272.00	504	403.00	1544
113.00	352	192.00	2259	273.00	3035	404.00	488
115.00	191	193.00	2519	274.00	8096	405.00	50
117.00	21024	194.00	809	275.00	39456	421.00	706
118.00	1922	195.00	416	276.00	5347	422.00	955
119.00	262	196.00	3798	277.00	4444	423.00	5037
120.00	443	197.00	759	278.00	908	424.00	1367
121.00	117	198.00	174464	279.00	327	425.00	135

Date : 28-MAY-2010 11:14

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052806.d
Spectrum: Avg. Scans 247-249 (7.65), Background Scan 244
Location of Maximum: 198.00
Number of points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	1302	199.00	12424	281.00	187	441.00	16608
123.00	2246	200.00	1248	282.00	143	442.00	109440
124.00	1141	201.00	840	283.00	687	443.00	20792
125.00	913	202.00	283	284.00	201	444.00	2212
127.00	80672	203.00	1421	285.00	861	445.00	77
128.00	6307	204.00	7180	286.00	201		

Air Toxics Ltd.

Data file : /chem/msdk.i/k28may10a.b/k052827.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 28-MAY-2010 19:39
Operator : ss Inst ID: msdk.i
Smp Info : ;1869-6B-50;Tune
Misc Info :
Comment :
Method : /chem/msdk.i/k28may10a.b/dftpp.m
Meth Date : 28-May-2010 09:10 Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
1 dftpp					CAS #:		
7.660	7.836 (0.000)	198	146277			100.00- 100.00	100.00
7.660	7.836 (0.000)	51	77522			30.00- 60.00	53.00
7.660	7.836 (0.000)	68	82			0.00- 2.00	0.14
7.660	7.836 (0.000)	69	57010			0.00- 99.90	38.97
7.660	7.836 (0.000)	70	411			0.00- 2.00	0.72
7.660	7.836 (0.000)	127	67098			40.00- 60.00	45.87
7.660	7.836 (0.000)	197	487			0.00- 1.00	0.33
7.660	7.836 (0.000)	199	9954			5.00- 9.00	6.80
7.660	7.836 (0.000)	275	34800			10.00- 30.00	23.79
7.660	7.836 (0.000)	365	5656			1.00- 0.00	3.87
7.660	7.836 (0.000)	441	5976			0.01- 99.99	29.92
7.660	7.836 (0.000)	442	100133			40.00- 100.00	68.45
7.660	7.836 (0.000)	443	19975			17.00- 23.00	19.95

Data File: /chem/msdk.i/k28may10a.b/k052827.d

Date : 28-MAY-2010 19:39

Client ID: DFTPP 50ng

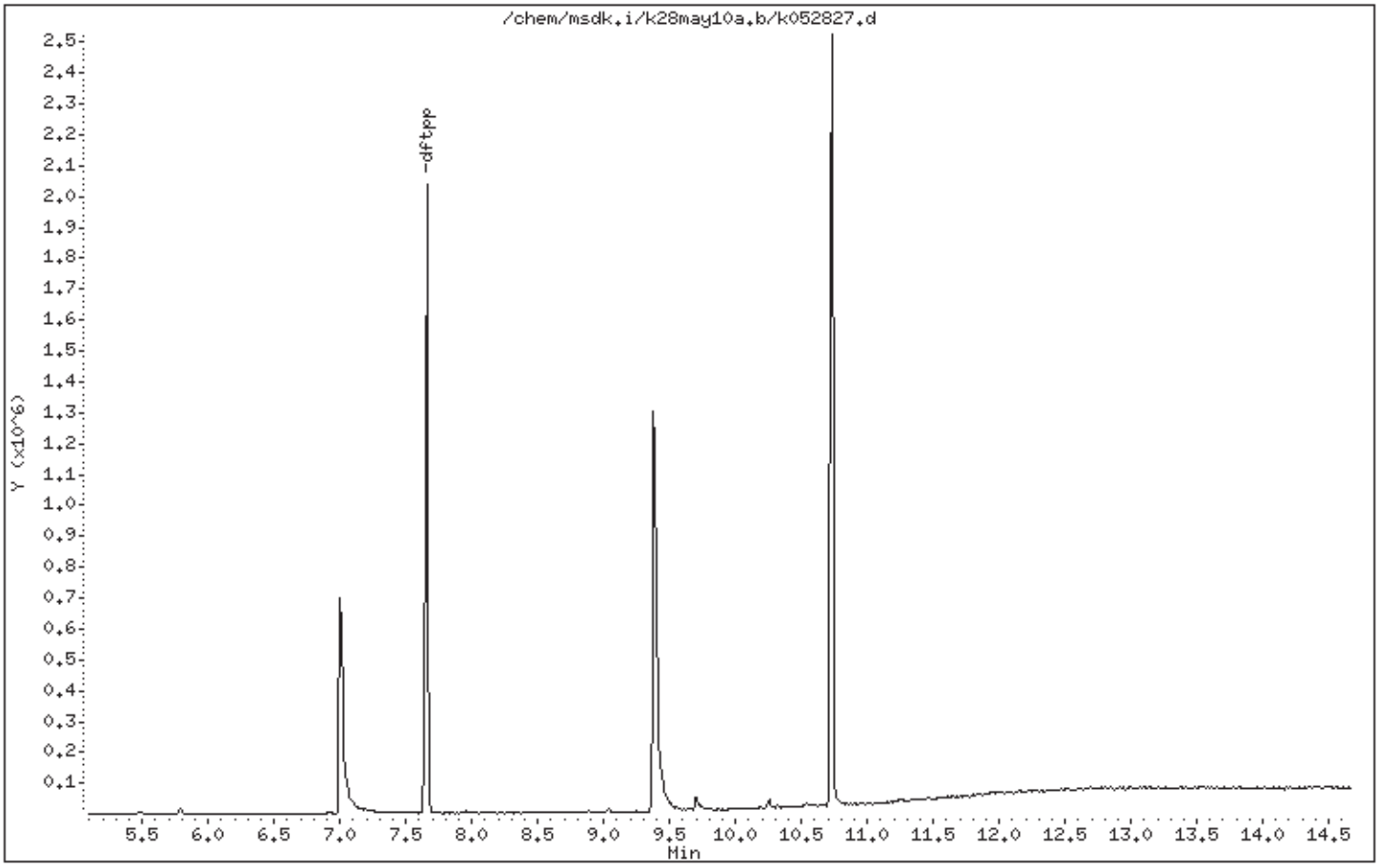
Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25



Data File: /chem/msdk.i/k28may10a.b/k052827.d

Date : 28-MAY-2010 19:39

Client ID: DFTPP 50ng

Instrument: msdk.i

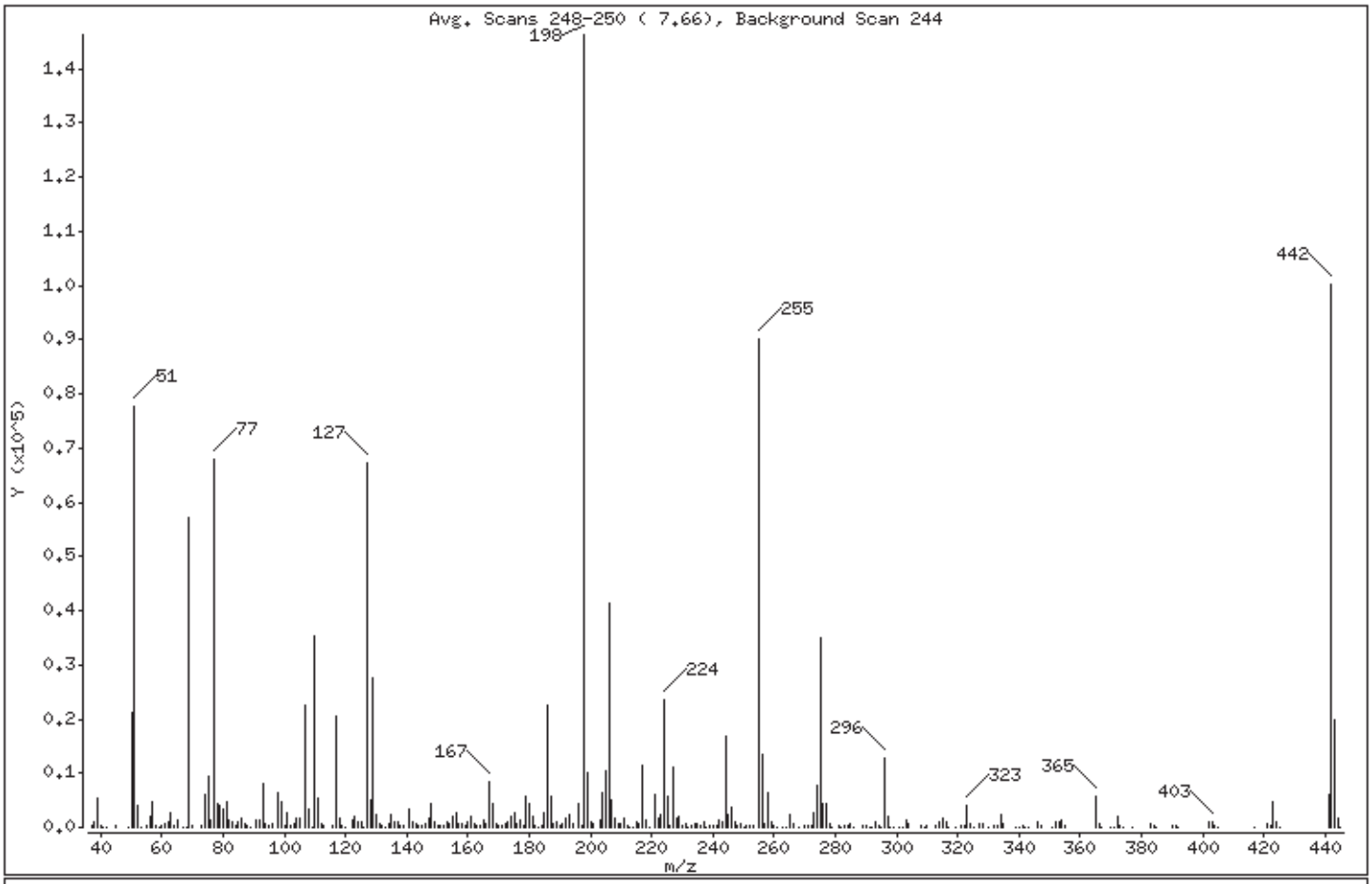
Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	53.00
68	Less than 2.00% of mass 69	0.06 (0.14)
69	Less than 99.90% of mass 198	38.97
70	Less than 2.00% of mass 69	0.28 (0.72)
127	40.00 - 60.00% of mass 198	45.87
197	Less than 1.00% of mass 198	0.33
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	23.79
365	Greater than 1.00% of mass 198	3.87
441	Present, but less than mass 443	4.09
442	40.00 - 100.00% of mass 198	68.45
443	17.00 - 23.00% of mass 442	13.66 (19.95)

Date : 28-MAY-2010 19:39

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052827.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 244
Location of Maximum: 198.00
Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	399	129.00	27448	209.00	701	294.00	346
38.00	979	130.00	2209	210.00	617	295.00	92
39.00	5478	131.00	528	211.00	1798	296.00	12618
40.00	212	132.00	228	212.00	366	297.00	1952
41.00	22	133.00	135	213.00	69	298.00	79
42.00	109	134.00	787	214.00	145	299.00	50
45.00	261	135.00	2274	215.00	1001	301.00	156
49.00	88	136.00	943	216.00	682	302.00	157
50.00	21056	137.00	1135	217.00	11517	303.00	1494
51.00	77520	138.00	433	218.00	1476	304.00	520
52.00	4148	139.00	225	219.00	50	308.00	272
53.00	68	141.00	3319	221.00	6077	309.00	132
55.00	384	142.00	985	222.00	1547	310.00	362
56.00	2063	143.00	684	223.00	2490	313.00	170
57.00	4784	144.00	271	224.00	23520	314.00	1044
58.00	254	145.00	188	225.00	5849	315.00	1720
59.00	64	146.00	618	226.00	186	316.00	1085
60.00	210	147.00	1707	227.00	11022	317.00	163
61.00	776	148.00	4409	228.00	1785	319.00	68
62.00	850	149.00	955	229.00	2058	321.00	476
63.00	2540	150.00	269	230.00	395	322.00	247
64.00	298	151.00	413	231.00	653	323.00	3910
65.00	1382	152.00	270	232.00	112	324.00	793
67.00	157	153.00	1051	233.00	262	325.00	54
68.00	82	154.00	665	234.00	635	327.00	592
69.00	57008	155.00	2143	235.00	762	328.00	615
70.00	411	156.00	2600	236.00	501	330.00	55
73.00	378	157.00	641	237.00	895	332.00	278
74.00	6152	158.00	660	238.00	65	333.00	422
75.00	9253	159.00	478	239.00	306	334.00	2385
76.00	1489	160.00	1078	240.00	421	335.00	726
77.00	67928	161.00	1931	241.00	407	339.00	63
78.00	4421	162.00	620	242.00	1190	340.00	113
79.00	4110	163.00	197	243.00	1041	341.00	409
80.00	3252	164.00	342	244.00	16856	342.00	154

Date : 28-MAY-2010 19:39

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052827.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 244
Location of Maximum: 198.00
Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	4851	165.00	1362	245.00	2244	343.00	54
82.00	1251	166.00	810	246.00	3825	346.00	968
83.00	997	167.00	8555	247.00	903	347.00	223
84.00	218	168.00	4218	248.00	465	351.00	94
85.00	1023	169.00	654	249.00	611	352.00	1176
86.00	1546	170.00	357	250.00	52	353.00	906
87.00	747	171.00	435	251.00	274	354.00	1233
88.00	324	172.00	530	252.00	201	355.00	284
89.00	75	173.00	924	253.00	352	365.00	5656
91.00	1203	174.00	1877	255.00	90000	366.00	824
92.00	1309	175.00	2827	256.00	13554	367.00	73
93.00	8086	176.00	829	257.00	517	370.00	62
94.00	547	177.00	1315	258.00	6233	371.00	87
95.00	216	178.00	398	259.00	1155	372.00	2137
96.00	556	179.00	5641	260.00	190	373.00	489
98.00	6385	180.00	4265	261.00	85	374.00	78
99.00	4639	181.00	1878	263.00	55	377.00	69
100.00	403	182.00	356	264.00	70	383.00	511
101.00	2645	183.00	54	265.00	2412	384.00	261
102.00	206	184.00	497	266.00	639	385.00	55
103.00	646	185.00	2797	268.00	80	390.00	232
104.00	1668	186.00	22384	270.00	174	391.00	170
105.00	1523	187.00	5641	271.00	192	392.00	77
107.00	22560	188.00	713	272.00	289	402.00	929
108.00	3359	189.00	1139	273.00	2751	403.00	1079
109.00	108	190.00	214	274.00	7573	404.00	432
110.00	35248	191.00	593	275.00	34800	405.00	57
111.00	5384	192.00	1847	276.00	4474	417.00	60
112.00	725	193.00	2466	277.00	4244	421.00	727
113.00	213	194.00	564	278.00	774	422.00	383
116.00	177	196.00	4377	279.00	99	423.00	4724
117.00	20472	197.00	487	281.00	195	424.00	1174
118.00	1703	198.00	146240	282.00	139	425.00	55
119.00	170	199.00	9954	283.00	447	441.00	5976
120.00	165	200.00	953	284.00	296	442.00	100128

Date : 28-MAY-2010 19:39

Client ID: DFTPP 50ng Instrument: msdk.i

Sample Info: ;1869-6B-50;Tune

Operator: ss

Column phase: Column diameter: 0.25

Data File: k052827.d
Spectrum: Avg. Scans 248-250 (7.66), Background Scan 244
Location of Maximum: 198.00
Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	1200	201.00	813	285.00	744	443.00	19968
123.00	2139	203.00	1232	286.00	111	444.00	1831
124.00	1044	204.00	6225	289.00	191	445.00	62
125.00	903	205.00	10410	290.00	190		
126.00	123	206.00	41200	291.00	55		
127.00	67096	207.00	5163	292.00	106		
128.00	5153	208.00	1724	293.00	916		

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Karen Lopez at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

SORBENT SAMPLE COLLECTION

@Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Project Manager: Melissa Klevin
Collected by: (Print and Sign) Eric Cherry
Company: Exponent Email: mklevin@exponent.com
Address: 15375 SE 30th Pl #250 City: Bellevue State: WA Zip: 98007
Phone: Fax:

Project Info:
P.O. #: —
Project #: 0907194.000.0001
Project Name: Hegler-Kronquist

Turn Around Time: ☒ Normal ☐ Rush (specify)

Circle Reporting Units: ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
17A	GV-1	1	5-16-10	12:38	15:38	3 hours	20.7 L	Air Toxics Siloxanes Method 71
17B 18A	GV-1	2	5-16-10	12:38	15:38	3 hours	20.7 L	↓
18A 19A	GV-6	1	5-16-10	13:19	16:20	3 hr 1 min	20.82 L	↓
18B 20A	GV-6	2	5-16-10	13:19	16:20	3 hr 1 min	20.82 L	↓
19A 21A	GV-7	1	5-16-10	13:54	16:54	3 hours	20.7 L	↓
19B 20A	GV-7	2	5-16-10	13:54	16:54	3 hours	20.7 L	↓
20A 23A	GV-11	1	5-16-10	14:39	17:39	3 hours	20.7 L	↓
20B 24 MF 5/19/10	GV-11	2	5-16-10	14:39	17:39	3 hours	20.7 L	↓
21A	AOS-1	2	5-17-10	18:48	21:48	3 hr	20.7 L	↓
21B	AOS-1	1	5-17-10	18:48	21:48	3hr	20.7 L	↓

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5.18.10/1730	Monica Green AFL	5/19/10 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	fed ex		~~AA~~ MF 5/19/10 6°C	Good	Yes No None	1005453

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th Pl #250 City: Bellevue State: WA Zip: 98007
Phone: _____ Fax: _____

Project Info:
P.O. #: —
Project #: 0907194.000-0601
Project Name: Heglar Kronquist

Turn Around Time:
[X] Normal
[ ] Rush _____ specify

Circle Reporting Units:
ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
22A	GV-9	a	5-15-10	20:10	23:10	3hour	20.7 L	Siloxanes AirToxics Method 71
22B	GV-9	b	5-15-10	20:10	23:10	3hour	20.7 L	
23A	GV-10	a	5-15-10	19:57	22:57	3hour	20.7 L	
23B	GV-10	b	5-15-10	19:57	22:57	3hour	20.7 L	
24A	GV-12	a	5-15-10	20:41	23:41	3hour	20.7 L	
24B	GV-12	b	5-15-10	20:41	23:41	3hour	20.7 L	
25A	ALF-1	1	5-17-10	14:10	17:10	3hr	20.7 L	
25B	ALF-1	2	5-17-10	14:10	17:10	3hr	20.7 L	
26A	ALF-2	1	5-17-10	14:27	17:27	3hr	20.7 L	
26B	ALF-2	2	5-17-10	14:27	17:27	3hr	20.7 L	

Relinquished by: (signature) Date/Time: 5-18-10/1730
Received by: (signature) Monica Gregsen ATL 5/19/10 900 Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		AA ice 6°C	Sealed Good	(Yes) No None	1005458

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry / EMC
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th Pl City: Bellevue State: WA Zip: 98007
Phone: 425-519-8774 Fax: 425-519-8799

Project Info:
P.O. #: —
Project #: 0907194.000.0601
Project Name: Heglar Kronquist

Turn Around Time:
☒ Normal
☐ Rush
specify

Circle Reporting Units:
ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
27A	ALF-3	1	5-17-10	14:39	17:39	3hr	20.7L	Siloxanes: AirToxics Method 71
27B	ALF-3	2	5-17-10	14:39	17:39	3hr	20.7L	
28A	ALF-4	1	5-17-10	14:47	17:47	3hr	20.7L	
28B	ALF-4	2	5-17-10	14:47	17:47	3hr	20.7L	
29A	ALF-5	1	5-17-10	14:57	18:01	3hr 4min	21.16L	
29B	ALF-5	2	5-17-10	14:57	18:01	3hr 4min	21.16L	
30A	AOS-2	1	5-17-10	18:57	21:57	3hr	20.7L	
30B	AOS-2	2	5-17-10	18:57	21:57	3hr	20.7L	
31A	AOS-3	1	5-17-10	17:18	20:18	3hr	20.7L	
31B	AOS-3	2	5-17-10	17:18	20:18	3hr	20.7L	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5.18.10/1730	Monica Kreeben ATL	5/19/10 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	(Yes) No None	1005453

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager: Melissa Klevin
Collected by: (Print and Sign): Eric Cherry
Company: Exponent Email: mklevin@exponent.com
Address: 15375 SE 30th Pl #250 City: Bellevue State: WA Zip: 98007
Phone: Fax:

Project Info:
P.O. #: —
Project #: 0907194.000.0601
Project Name: Heglar-Kronquist

Turn Around Time: [X] Normal [ ] Rush ____ specify

Circle Reporting Units: ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
17A	GV1-1	—	5-16-10	12:38	15:38	3 hour	20.16L	Air Toxics Siloxanes Method 71
17B 18A	GV1-2	—	5-16-10	12:38	15:38	3 hour	20.16L	
18A 19A	GV6-1	—	5-16-10	13:19	16:19	3hour	20.16L	
18B 20A	GV6-2	—	5-16-10	13:19	16:19	3hour	20.16L	
19A 21A	GV7-1	—	5-16-10	13:54	16:54	3hour	20.16L	
19B 22A	GV7-2	—	5-16-10	13:54	16:54	3hour	20.16L	
20A 23A	GV11-1	—	5-16-10	14:39	17:39	3hour	20.16L	
20B 24 mg 5/19/10	GV11-2	—	5-16-10	14:39	17:39	3 hour	20.16L	
21A	AOS-1-2	—	5-17-10	18:48	21:48	3 hr	20.16L	
21B	AOS1-1	—	5-17-10	18:48	21:48	3hr	20.16L	

Relinquished by: (signature) Date/Time: 5.18.10/1730
Received by: (signature) Date/Time: Monica Green AT 5/19/10 900
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		~~AA~~ WC 5/19/10 6°C	Good	Yes No None	1005453

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th Pl #250 City: Bellevue State: WA Zip: 98007
Phone: _____ Fax: _____

Project Info:
P.O. #: —
Project #: 0907194.000-0601
Project Name: Hegler Kronquist

Turn Around Time:
☒ Normal
☐ Rush
_____ specify

Circle Reporting Units:
ppbv ppmv
ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
22A	GV9	a	5-15-10	20:10	23:10	3hour	20.16L	Siloxane AirToxics Method 71
22B	GV9	b	5-15-10	20:10	23:10	3hour	20.16L	
23A	GV10	a	5-15-10	19:57	22:57	3hour	20.16L	
23B	GV10	b	5-15-10	19:57	22:57	3hour	20.16L	
24A	GV12	a	5-15-10	20:41	23:41	3hour	20.16L	
24B	GV12	b	5-15-10	20:41	23:41	3hour	20.16L	
25A	ALF1-1	—	5-17-10	14:10	17:10	3hr	20.16L	
25B	ALF1-2	—	5-17-10	14:10	17:10	3hr	20.16L	
26A	ALF2-1	—	5-17-10	14:27	17:27	3hr	20.16L	
26B	ALF2-2	—	5-17-10	14:27	17:27	3hr	20.16L	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5-18-10/1730	Monica Green	ATL 5/19/10 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		AAA me 6°C	Good	(Yes) No None	1005453

SORBENT SAMPLE COLLECTION

@Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry / [signature]
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th Pl City: Bellevue State: WA Zip: 98007
Phone: 425-519-8774 Fax: 425-519-8799

Project Info:
P.O. #: —
Project #: 0907194.000.0601
Project Name: Heglar Kronquist

Turn Around Time:
☒ Normal
☐ Rush
specify

Circle Reporting Units:
ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
27A	ALF3-1	–	5-17-10	14:39	17:39	3hr	20.16L	Siloxanes: AirToxics Method 71
27B	ALF3-2	–	5-17-10	14:39	17:39	3hr	20.16L	
28A	ALF4-1	–	5-17-10	14:47	17:47	3hr	20.16L	
28B	ALF4-2	–	5-17-10	14:47	17:47	3hr	20.16L	
29A	ALF5-1	–	5-17-10	14:57	17:57	3hr	20.16L	
29B	ALF5-2	–	5-17-10	14:57	17:57	3hr	20.16L	
30A	AOS2-1	–	5-17-10	18:57	21:57	3hr	20.16L	
30B	AOS2-2	–	5-17-10	18:57	21:57	3hr	20.16L	
31A	AOS3-1	–	5-17-10	17:18	20:18	3hr	20.16L	
31B	AOS3-2	–	5-17-10	17:18	20:18	3hr	20.16L	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5.18.10/1730	Monica Groben AIR	5/19/10 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	(Yes) No None	1005453

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Page 6 of 6

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry / EMA
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th PL City: Bellevue State: WA Zip: 98007
Phone: 425-519-8774 Fax: 425-519-8799

Project Info:
P.O. #: —
Project #: 0907194.000.0601
Project Name: Heglar-Kingquist

Turn Around Time:
☐ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
32A	GV13-1	—	5-16-10	15:27	Siloxane: Air Toxics Method 71	20.16L		3hr	
32B	GV13-2	—	5-16-10	15:27	↓	20.16L		3hr	
	GV9	—	5-15-10	~~19:06/23:06~~ ~~18:50/22:50~~	PCBs: EPATO-15	3L/min		4hr	
	GV10	—	5-15-10	18:50/22:50	PCBs: EPATO-15	1.5L/min		4hr	
	PCB Trip Blank	—	—	—	PCBs: EPATO-15	—	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5.18.10 / 1730	Monica Green AM	5/19/10
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: 900

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA 5/19/10	Good	Yes / No / None	1005453

Form 1293 rev.11

impinger volume for WO 1005453C

Sample ID	*Front imp. Vol.(mL)*	*Back imp. Vol.(mL)*	*Total Vol. (mL)*
1005453C-17AB	13.7	15.2	28.9
1005453C-18AB	12.2	14.3	26.5
1005453C-19AB	14.3	14.5	28.8
1005453C-20AB	12.5	14.5	27.0
1005453C-21AB	12.4	15.4	27.8
1005453C-22AB	12.1	13.7	25.8
1005453C-23AB	7.9	14.6	22.5
1005453C-24AB	14.3	15.1	29.4
1005453C-25AB	11.2	15.2	26.4
1005453C-26AB	12.7	14.3	27.0
1005453C-27AB	13.6	14.2	27.8
1005453C-28AB	13.3	15.9	29.2
1005453C-29AB	13.7	14.1	27.8
1005453C-30AB	12.9	14.9	27.8
1005453C-31AB	14.5	13.9	28.4
1005453C-32AB	12.7	14.1	26.8

Karen Lopez

From: Melissa Kleven [mkleven@exponent.com]
Sent: Thursday, May 27, 2010 10:52 AM
To: Karen Lopez
Cc: Keri Whetter
Subject: RE: Corrections to Log-In

Hi Karen

Answers in blue below. This should allow you to get started on the analyses. We are working on corrected COCs and they will be sent today as soon as they are done.

Thanks
Melissa

Also, please note the following:

- "D-" samples are downhole samples (in dross borehole cut into landfill)
- "GV" samples are downhole samples (down landfill gas vent pipe)
- "AOS" and "ALF" samples are ambient samples

Work Order #1005453A:

- Note corrected final Siloxane volumes:
  - GV-1: 20.70 L 17AB
  - GV-6: 20.815 L 18AB
  - GV-7: 20.70 L 19AB Give to Lynn.
  - GV-9: 20.70 L 22AB
  - GV-10: 20.70 L 23AB
  - GV-11: 20.70 L 20AB
  - GV-12: 20.70 L 24AB
  - GV-13: 20.70 L 32AB
  - ALF-1: 20.70 L 25AB
  - ALF-2: 20.70 L 26AB
  - ALF-3: 20.70 L 27AB
  - ALF-4: 20.70 L 28AB
  - ALF-5: 21.16 L 29AB
  - AOS-1: 20.70 L 21AB
  - AOS-2: 20.70 L 30AB
  - AOS-3: 20.70 L 31AB

From: Karen Lopez [mailto:klopez@airtoxics.com]
Sent: Thursday, May 27, 2010 9:18 AM
To: Keri Whetter
Cc: 'Phua Penney'; Melissa Kleven
Subject: RE: Corrections to Log-In

Hi Keri,

Thank you for the list of corrections for WO#'s 1005522A and 1005453A. Per our SOP, we would prefer that you provide a revised COC, however, if this is not possible, we will accept the email below as formal documentation for your requested changes to these two work orders.

Before we proceed with the requested changes, I have a some questions. Please see my comments below in red.

Work Order #1005522A:

- Sample Field Blank (Lab Sample #11A) needs to be deleted. This was a Summa that was labeled, but was never used. Sorry for the confusion. – Please confirm that you do not want analysis for Lab Sample #11A. **Yes – Please delete this from the log-in. This was an extra summa that was not used on our project but was sent back.**
- Summas - The field notes indicate that D-1 and D-10 end times for the Summa canisters are 14:53, is this the same end time noted on the tags? If not, please let me know.
  D-1 - The end time noted on the tag is 14:23, however, a time of 14:53 was originally documented, but was lined out. Which end time should we use? **Start time is 14:23 and end time is 14:53.**
  D-10 – The end time noted on the tag is 14:23. This matches the end time documented on the COC. **Start time is 14:23 and end time is 14:53.**
- **D-1 and D-10 are down hole samples.**
- **PCBs, D-1: Final volume is 383.04 L**
- **PCBs, D-10: Final volume is 377.52 L**

Work Order #1005453A:

- Does the information on the Summa tag for Sample AOS-3 match the information noted on the COC? Yes, the Summa tag for Sample AOS-3 matches the information noted on the COC.
- Summas – Sample GV-10 (Lab Sample 02A), initial canister pressure is listed as 29.1 in the field notes, does this correspond to the Summa tag? The initial pressure listed on the Summa tag is 29.0"Hg. Which initial canister pressure should we use? **Initial canister pressure is 29.1"Hg.**
- Summas – Sample GV-12 (Lab Sample 04A), initial canister pressure is listed as 28.7 in the field notes and the canister # is noted as #2416, does this correspond to the Summa tag? The canister number for Sample GV-12 tag is 1330. The following information was also on the Summa tag: initial canister vacuum is 29.0" Hg, Final Vacuum 14" Hg@ 23:00 5/15/10/KW. **We need to find 2416. It had an initial pressure of 28.7"Hg and ending of 8"Hg. Please keep 1330 and hold in case we cannot locate 2416.**
- PCBs - Did you find the PCB samples, GV-9, GV-10 and PCB Trip Blank? Per my discussion with Melissa Kleven, we have searched through all coolers that were submitted to Air Toxics on May 19, 2010 and we found the Siloxane samples, however, we were unable to find the PCB samples. There were two ziplock bags inside the sample cooler which contained the siloxane samples. One bag was noted as Calibration and a calibration tube was found inside that tube. The other bag simply had a piece of tightly wrapped foil in a ball. On Friday, May 21, 2010, another set of samples were submitted to the laboratory. The Receiving Department and myself searched through the media as well as the unused media and were unable to locate the PCB samples.

Please provide information where needed. I look forward to your response in order to correct the Sample Receipt Logins. Please note that all samples are on hold until the Sample Receipt Logins are complete.

Sincerely,

Karen P. Lopez
Project Manager
Air Toxics Ltd.
180 Blue Ravine Rd. Ste. B
Folsom, CA 95630

916-605-3410 (Direct)
916-985-1020 (Fax)
klopez@airtoxics.com

www.airtoxics.com
Celebrating 20 Years of Excellence

From: Keri Whetter [mailto:kwhetter@exponent.com]
Sent: Wednesday, May 26, 2010 3:50 PM
To: Karen Lopez
Cc: Melissa Kleven
Subject: Corrections to Log-In

Hi Karen,

Here is a list of corrections that need to be made to the sample log-ins:

Work Order #1005522A:

- Please keep sample IDs as noted on the COC. Do not use sample IDs noted on sample containers. Please label the Siloxane samples as D-1 (not D-1 1/2) and D-10 (not D-10 1/2).
- Sample Field Blank (Lab Sample #11A) needs to be deleted. This was a Summa that was labeled, but was never used. Sorry for the confusion.
- PCB s- Final volume for Sample D-1 for TO-10A should be 383.04 L
- PCBs - Final volume for Sample D-10 for TO-10A should be 377.52 L
- Summas - The field notes indicate that D-1 and D-10 end times for the Summa canisters are 14:53, is this the same end time noted on the tags? If not, please let me know.
- Siloxanes - Duration of Sample FB-Siloxane is actually 0.5 hours.

Work Order #1005453A:

- Does the information on the Summa tag for Sample AOS-3 match the information noted on the COC?
- Please keep all sample ID's as follows for all analyses:
    - GV-1
    - GV-6
    - GV-7
    - GV-9
    - GV-10
    - GV-11
    - GV-12
    - GV-13
    - ALF-1

- ALF-2
- ALF-3
- ALF-4
- ALF-5
- AOS-1
- AOS-2
- AOS-3

For example, don't use GV-07, use GV-7.
And don't use GV1-1/GV1-2, etc. for the siloxane IDs, just use GV-1, etc.

- Siloxanes - Collection dates for ALF-1 and ALF-2 (Lab Samples 25AB and 26AB) are incorrect. Correct collection dates are May 17, 2010 for both samples.
- Siloxanes - Sample ALF-2 (Lab Sample 26AB) is incorrectly listed as ALS-2.
- Siloxanes - Sample ALF-5 (Lab Sample 29AB), correct end time is 18:01, and correct final volume is 20.61 L.
- Siloxanes - Sample GV-6 (Lab Sample 18AB), correct end time is 16:20, and correct final volume is 20.27 L.
- Summas – Sample GV-10 (Lab Sample 02A), initial canister pressure is listed as 29.1 in the field notes, does this correspond to the Summa tag?
- Summas – Sample GV-12 (Lab Sample 04A), initial canister pressure is listed as 28.7 in the field notes and the canister # is noted as #2416, does this correspond to the Summa tag?
- PCBs - Did you find the PCB samples, GV-9, GV-10 and PCB Trip Blank?

Please call with any questions.

Keri Whetter
Senior Associate
E^xponent®, Inc.
15375 SE 30th Place, Suite 250
Bellevue, WA 98007
Direct: 425.519.8750
Main: 425.519.8700
kwhetter@exponent.com

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 1005453C

Client

Ms. Melissa Kleven
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Sales Rep: JJM

Phone

425-519-8774

Fax

425-643-9827

Date Promised: 06/03/10
Date Completed: 6/3/10
Date Received: 5/19/10
PO#:
Project#: 0907194.000.0601 Heglar - Kronquist

Total $: $ 3,600.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
17AB	GV-1	Siloxanes	5/16/2010	$225.00
17ABB	GV-1 Lab Duplicate	Siloxanes	5/16/2010	$0.00
18AB	GV-6	Siloxanes	5/16/2010	$225.00
19AB	GV-7	Siloxanes	5/16/2010	$225.00
20AB	GV-11	Siloxanes	5/16/2010	$225.00
21AB	AOS-1	Siloxanes	5/17/2010	$225.00
22AB	GV-9	Siloxanes	5/15/2010	$225.00
23AB	GV-10	Siloxanes	5/15/2010	$225.00
24AB	GV-12	Siloxanes	5/15/2010	$225.00
25AB	ALF-1	Siloxanes	5/17/2010	$225.00
26AB	ALF-2	Siloxanes	5/17/2010	$225.00
27AB	ALF-3	Siloxanes	5/17/2010	$225.00
28AB	ALF-4	Siloxanes	5/17/2010	$225.00
29AB	ALF-5	Siloxanes	5/17/2010	$225.00
30AB	AOS-2	Siloxanes	5/17/2010	$225.00
31AB	AOS-3	Siloxanes	5/17/2010	$225.00
32AB	GV-13	Siloxanes	5/16/2010	$225.00
33A	Lab Blank	Siloxanes	NA	$0.00
33B	Lab Blank	Siloxanes	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Melissa Kleven
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Analysis Code: Other GC

TERMS: NET 30

Reporting Method: Siloxanes-GC/MS

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY Continued

Client

Ms. Melissa Kleven
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Sales Rep: JJM

Phone

425-519-8774

Fax

425-643-9827

Date Promised: 06/03/10
Date Completed: 6/3/10
Date Received: 5/19/10
PO#:
Project#: 0907194.000.0601 Heglar - Kronquist

Total $: $ 3,600.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
33C	Lab Blank	Siloxanes	NA	$0.00
33D	Lab Blank	Siloxanes	NA	$0.00
34A	LCS	Siloxanes	NA	$0.00
34B	LCS	Siloxanes	NA	$0.00
34C	LCS	Siloxanes	NA	$0.00
34D	LCS	Siloxanes	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Melissa Kleven
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Analysis Code: Other GC

TERMS: NET 30

Reporting Method: Siloxanes-GC/MS

Sample Discrepancy Report

Identification

Initiated By: MG **Project ID:**14301 **PM**: KL **Date:** 5/19/2010 **Discrepancy Type:** ☒ **1.** ☐ **2.** ☐ **3.**

Workorder(s) affected:1005453 **Sample(s) affected:** 22AB - 24AB

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.

1.2. ☐ No brass cap on canister.

1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.

1.6. ☐ COC improperly relinquished / received.

1.7. ☐ Sample tags / can numbers do not match the COC.

1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).

1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).

1.10. ☐ ID-none on the sample Tag/Blank

1.11. ☒ Other (describe below).

Describe the Discrepancy: 1.11: Sample IDs are not unique - added a and b to each of the vials for uniqueness.

2. Sample Receipt/Screening Discrepancies requiring PM notification

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

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

2.1. ☐ COC was not received with samples.

2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.

2.3. ☐ Incorrect sampling media / container for analysis requested.

2.4. ☐ Number of samples on the COC does not match the number of samples that were received.

2.5. ☐ Samples were received expired.

2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).

2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.

2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.

2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.

2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.

2.11. ☐ Environmental Supply Company valves

2.12. ☐ Sorbent samples-sampling volume was not provided

2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.

2.14. ☐ 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/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.

2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).

2.17. ☐ Canister Trip Blank received at low vacuum (< 25"Hg).

2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).

2.19. ☐ Other (describe below)

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Describe the Discrepancy:

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification ☐ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

Compound List

Siloxanes-GC/MS

CAS Number	Compound	Detection Limit ug	Type
556-67-2	Octamethylcyclotetrasiloxane (D4)	1.0	
541-02-6	Decamethylcylopentasiloxane (D5)	1.0	
9999-9999-204	Hexamethyl disiloxane -d18		
107-46-0	Hexamethyldisiloxane	1.0	
107-51-7	Octamethyltrisiloxane	1.0	
540-97-6	Dodecamethylcyclohexasiloxane (D6	2.0	

@ Air Toxics Ltd	Title: Data Review Checklist			Release Date: 03/01/10
	Form #: F1.2	Revision #: 2	Revision Date:03/01/10	Page #: 1 of 2

DATA REVIEW CHECKLIST Work Order #: 1005453C

A_1	A_2	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.
☐	☐			☐		Non-Standard sublist printed/verified, LOQ and LOD verified
	☐	☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	☑	☐	Sample Discrepancy Report (SDR) is completed
☐	☐	☑	☐	☑	☐	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
☐	☐	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑		☑		Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☐		☑				Date MDL(s) performed per instrument(s) 10/1109
☐	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☐				Verify receipt pressures
☐	☐	☐				Verify canister ID #'s
		☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☑	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness
				☑		Final PDF report reviewed for correctness

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

A/R: Dup 17A.

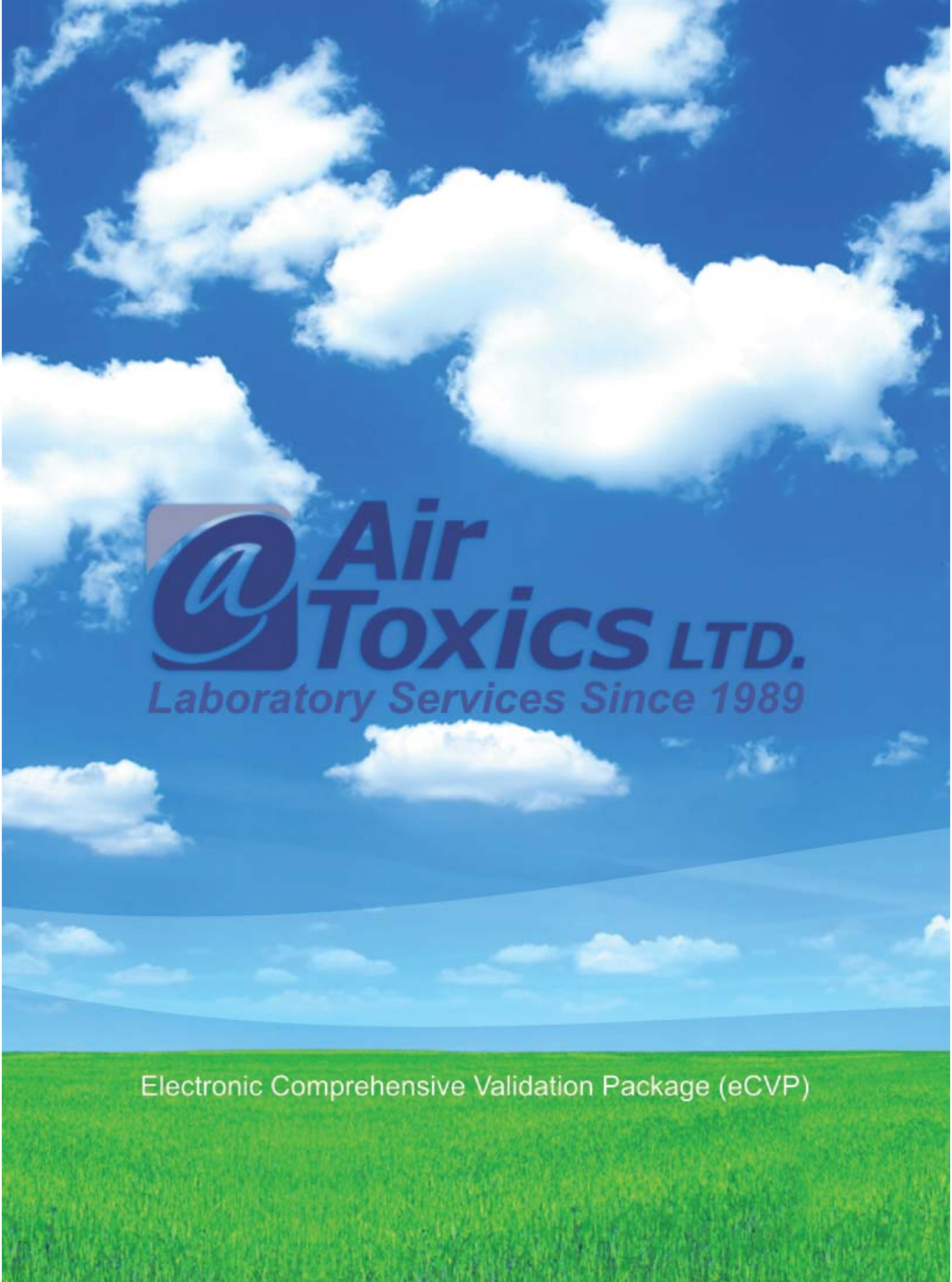
Report in ug/m^3.

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1:	R: 6/2/10	6/3/10	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable


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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15 (5&20 ppbv)

INVENTORY SHEET

Work Order #: 1005522A

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b. Target Compound Raw Data		
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-Chromatogram(s) and Ion Profiles (If Applicable)		
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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	6/10/10
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1005522A

Work Order Summary

CLIENT:	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	**BILL TO:**	Ms. Keri Whetter Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8750	**P.O. #**	
FAX:	425-643-9827	**PROJECT #**	0907194.000.0601 Heglar Kronquist
DATE RECEIVED:	05/21/2010	**CONTACT:**	Karen Lopez
DATE COMPLETED:	06/08/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	D-1	Modified TO-15 (5&20 ppbv	5.4 "Hg	5 psi
02A	D-10	Modified TO-15 (5&20 ppbv	6.0 "Hg	5 psi
02AA	D-10 Lab Duplicate	Modified TO-15 (5&20 ppbv	6.0 "Hg	5 psi
03A(on hold)	Blank	Modified TO-15 (5&20 ppbv	9.0 "Hg	5 psi
04A	GV-12	Modified TO-15 (5&20 ppbv	4.0 "Hg	5 psi
11A	Trip Blank	Modified TO-15 (5&20 ppbv	28.5 "Hg	5 psi
12A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
12B	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
13A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
13B	CCV	Modified TO-15 (5&20 ppbv	NA	NA
14A	LCS	Modified TO-15 (5&20 ppbv	NA	NA
14B	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 06/08/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
Exponent
Workorder# 1005522A

Five 6 Liter Summa Canister samples were received on May 21, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs 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

Samples Blank and Field Blank were placed on hold per the client's request.

The number of samples received did not match the information on the Chain of Custody (COC). Sample Field Blank was added to the analytical request.

Sample Trip Blank was removed from "Hold" and placed on "Active" status per client request on 6/1/10.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The results for TPH gasoline were reported as not-detected in samples D-1, D-10, GV-12 and Trip

Blank since the chromatographic profiles were not consistent with a gasoline pattern.

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

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction 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
D-1	1005522A-01A	5/19/2010	5/21/2010	NA	8	5/27/2010	NA	Good
D-10	1005522A-02A	5/19/2010	5/21/2010	NA	8	5/27/2010	NA	Good
D-10 Lab Duplicate	1005522A-02AA	5/19/2010	5/21/2010	NA	8	5/27/2010	NA	Good
GV-12	1005522A-04A	5/16/2010	5/21/2010	NA	11	5/27/2010	NA	Good
Trip Blank	1005522A-11A	NA	5/21/2010	NA	NA	6/ 2/2010	NA	Good
Lab Blank	1005522A-12A	NA	NA	NA	NA	5/27/2010	NA	Good
Lab Blank	1005522A-12B	NA	NA	NA	NA	6/ 2/2010	NA	Good
CCV	1005522A-13A	NA	NA	NA	NA	5/26/2010	NA	Good
CCV	1005522A-13B	NA	NA	NA	NA	6/ 2/2010	NA	Good
LCS	1005522A-14A	NA	NA	NA	NA	5/27/2010	NA	Good
LCS	1005522A-14B	NA	NA	NA	NA	6/ 2/2010	NA	Good

Sample Results and Raw Data

Air Toxics LTD.
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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: D-1

Lab ID#: 1005522A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	33	180	77	430

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Client Sample ID: D-1

Lab ID#: 1005522A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052612**	**Date of Collection:**	**5/19/10 2:23:00 PM**
Dil. Factor:	**1.63**	**Date of Analysis:**	**5/27/10 12:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.2	Not Detected	40	Not Detected
Freon 114	8.2	Not Detected	57	Not Detected
Chloromethane	33	Not Detected	67	Not Detected
Vinyl Chloride	8.2	Not Detected	21	Not Detected
1,3-Butadiene	8.2	Not Detected	18	Not Detected
Bromomethane	8.2	Not Detected	32	Not Detected
Chloroethane	8.2	Not Detected	22	Not Detected
Freon 11	8.2	Not Detected	46	Not Detected
Ethanol	33	Not Detected	61	Not Detected
Freon 113	8.2	Not Detected	62	Not Detected
1,1-Dichloroethene	8.2	Not Detected	32	Not Detected
Acetone	33	180	77	430
2-Propanol	33	Not Detected	80	Not Detected
Carbon Disulfide	8.2	Not Detected	25	Not Detected
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	8.2	Not Detected	28	Not Detected
Methyl tert-butyl ether	8.2	Not Detected	29	Not Detected
trans-1,2-Dichloroethene	8.2	Not Detected	32	Not Detected
Hexane	8.2	Not Detected	29	Not Detected
1,1-Dichloroethane	8.2	Not Detected	33	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.2	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	8.2	Not Detected	32	Not Detected
Tetrahydrofuran	8.2	Not Detected	24	Not Detected
Chloroform	8.2	Not Detected	40	Not Detected
1,1,1-Trichloroethane	8.2	Not Detected	44	Not Detected
Cyclohexane	8.2	Not Detected	28	Not Detected
Carbon Tetrachloride	8.2	Not Detected	51	Not Detected
2,2,4-Trimethylpentane	8.2	Not Detected	38	Not Detected
Benzene	8.2	Not Detected	26	Not Detected
1,2-Dichloroethane	8.2	Not Detected	33	Not Detected
Heptane	8.2	Not Detected	33	Not Detected
Trichloroethene	8.2	Not Detected	44	Not Detected
1,2-Dichloropropane	8.2	Not Detected	38	Not Detected
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.2	Not Detected	55	Not Detected
cis-1,3-Dichloropropene	8.2	Not Detected	37	Not Detected
4-Methyl-2-pentanone	8.2	Not Detected	33	Not Detected
Toluene	8.2	Not Detected	31	Not Detected
trans-1,3-Dichloropropene	8.2	Not Detected	37	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-1

Lab ID#: 1005522A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052612**	**Date of Collection: 5/19/10 2:23:00 PM**	
Dil. Factor:	**1.63**	**Date of Analysis: 5/27/10 12:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	8.2	Not Detected	44	Not Detected
Tetrachloroethene	8.2	Not Detected	55	Not Detected
2-Hexanone	33	Not Detected	130	Not Detected
Dibromochloromethane	8.2	Not Detected	69	Not Detected
1,2-Dibromoethane (EDB)	8.2	Not Detected	63	Not Detected
Chlorobenzene	8.2	Not Detected	38	Not Detected
Ethyl Benzene	8.2	Not Detected	35	Not Detected
m,p-Xylene	8.2	Not Detected	35	Not Detected
o-Xylene	8.2	Not Detected	35	Not Detected
Styrene	8.2	Not Detected	35	Not Detected
Bromoform	8.2	Not Detected	84	Not Detected
Cumene	8.2	Not Detected	40	Not Detected
1,1,2,2-Tetrachloroethane	8.2	Not Detected	56	Not Detected
Propylbenzene	8.2	Not Detected	40	Not Detected
4-Ethyltoluene	8.2	Not Detected	40	Not Detected
1,3,5-Trimethylbenzene	8.2	Not Detected	40	Not Detected
1,2,4-Trimethylbenzene	8.2	Not Detected	40	Not Detected
1,3-Dichlorobenzene	8.2	Not Detected	49	Not Detected
1,4-Dichlorobenzene	8.2	Not Detected	49	Not Detected
alpha-Chlorotoluene	8.2	Not Detected	42	Not Detected
1,2-Dichlorobenzene	8.2	Not Detected	49	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	240	Not Detected
Hexachlorobutadiene	33	Not Detected	350	Not Detected
TPH ref. to Gasoline (MW=100)	160	Not Detected	670	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052612.d
Lab Smp Id: 1005522A-01A
Inj Date : 27-MAY-2010 12:03
Operator : ED Inst ID: msdb.i
Smp Info : 50.0ml #33559
Misc Info : 5.4"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.63000
Integrator: HP RTE Compound Sublist: TO15.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	197696	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	156781			46.65- 106.65	79.30
4.895	4.909 (1.000)	49	206252			72.67- 132.67	104.33
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	745076	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	104602			0.00- 44.13	14.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	700736	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	335187			0.00- 30.00	47.83
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	203373	396.168	396.17	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	108303			26.01- 86.01	53.25
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	705397	393.211	393.21	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	68381			0.00- 39.95	9.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	471886			44.59- 104.59	66.90
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	418768	387.617	387.62	80.00- 120.00	100.00
10.212	10.212 (1.098)	95	471441			79.27- 139.27	112.58
10.212	10.212 (1.098)	176	404042			66.78- 126.78	96.48
38 Acetone					CAS #: 67-64-1		
2.880	2.894 (0.587)	58	30473	111.493	181.73	80.00- 120.00	100.00
2.880	2.894 (0.587)	43	96606			293.27- 353.27	317.01

Report Date: 08-Jun-2010 13:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052612.d
Lab Smp Id: 1005522A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: ED
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 5.4"Hg -> 5.0 Psi

Calibration Date: 26-MAY-2010
Calibration Time: 23:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	213867	128320	299414	197696	-7.56
94 1,4-Difluorobenze	789670	473802	1105538	745076	-5.65
125 Chlorobenzene-d5	751322	450793	1051851	700736	-6.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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: 08-Jun-2010 13:57

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1005522A-01A
Level: LOW Operator: ED
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: TO15.sub
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 5.4"Hg -> 5.0 Psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86 1,2-Dichloroethane	400.00	396.17	99.04	70-130
$ 110 Toluene-d8	400.00	393.21	98.30	70-130
$ 139 Bromofluorobenzene	400.00	387.62	96.90	70-130

Data File: /chem/msdb.i/26may10.b/b052612.d

Date : 27-MAY-2010 12:03

Client ID:

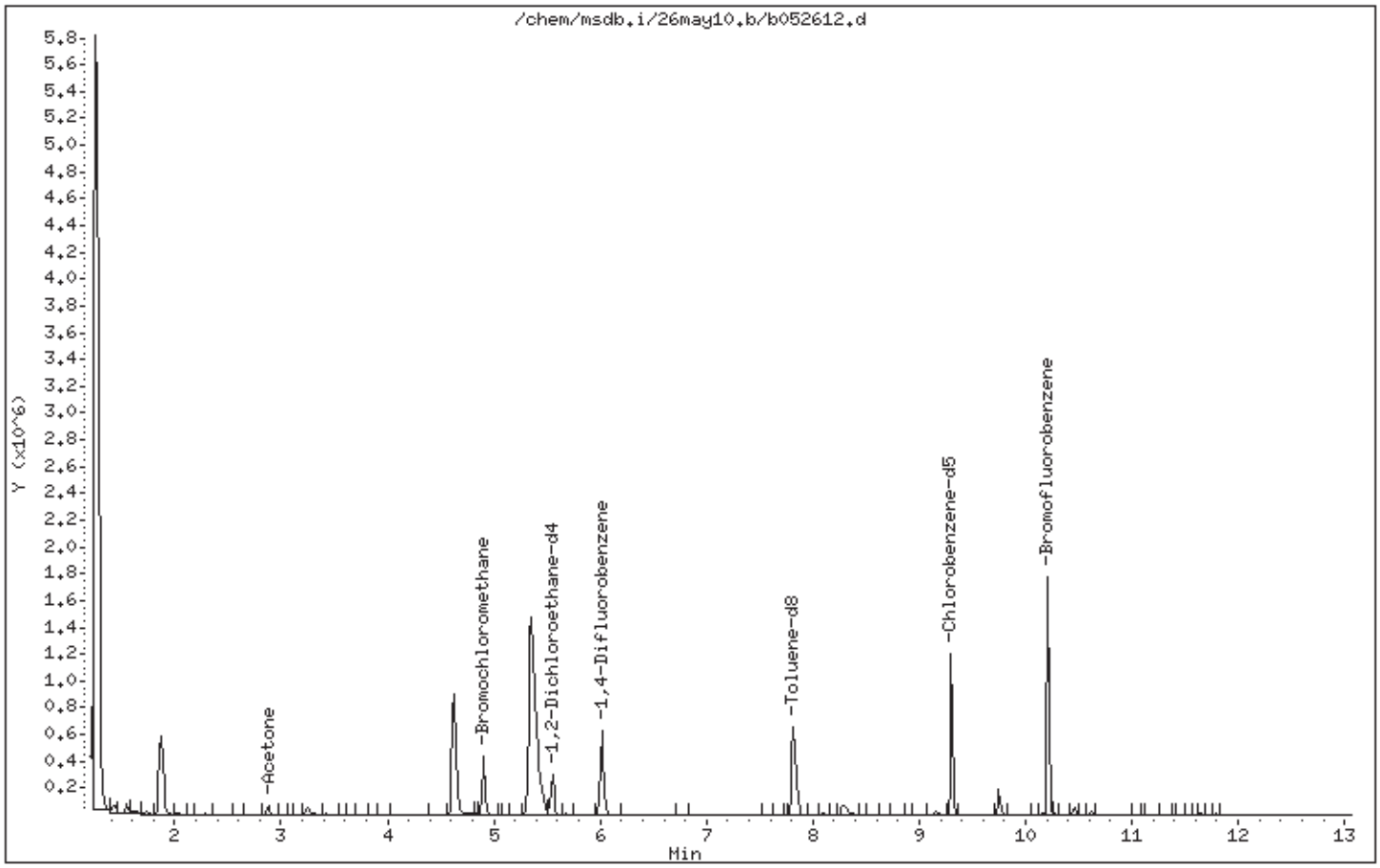
Instrument: msdb.i

Sample Info: 50.0ml #33559

Operator: ED

Column phase: RTx-624

Column diameter: 0.53



Data File: /chem/msdb.i/26may10.b/b052612.d

Date : 27-MAY-2010 12:03

Client ID:

Instrument: msdb.i

Sample Info: 50.0ml #33559

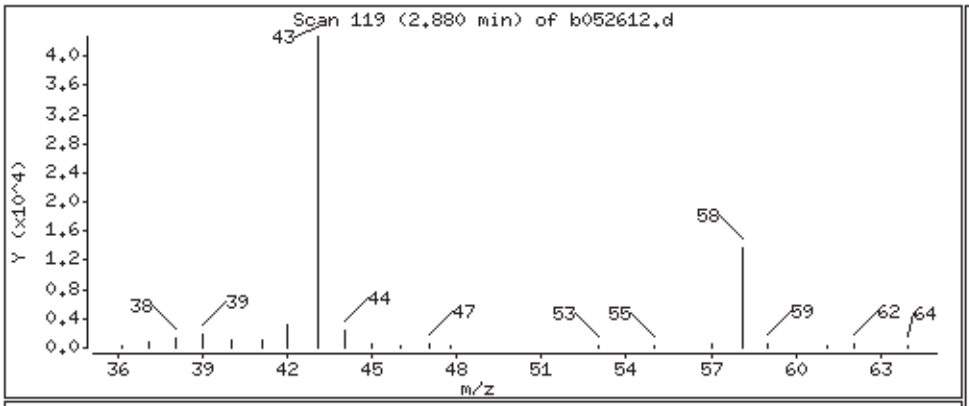
Operator: ED

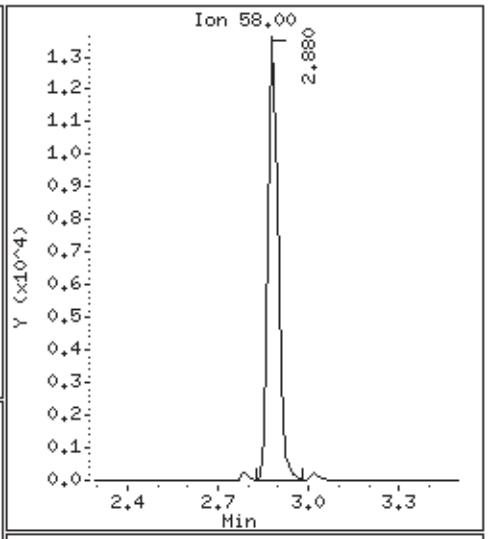
Column phase: RTx-624

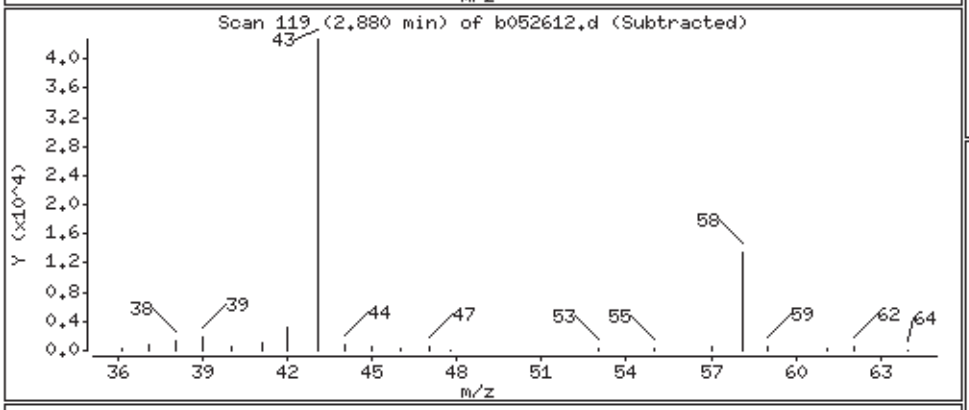
Column diameter: 0.53

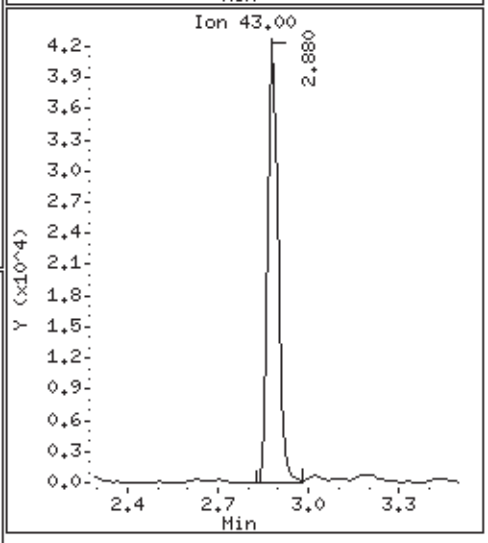
38 Acetone

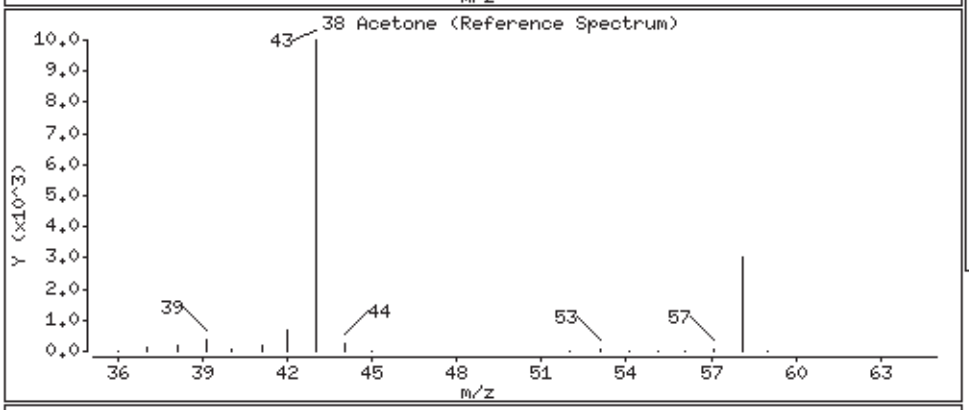
Concentration: 181.73 PPBV

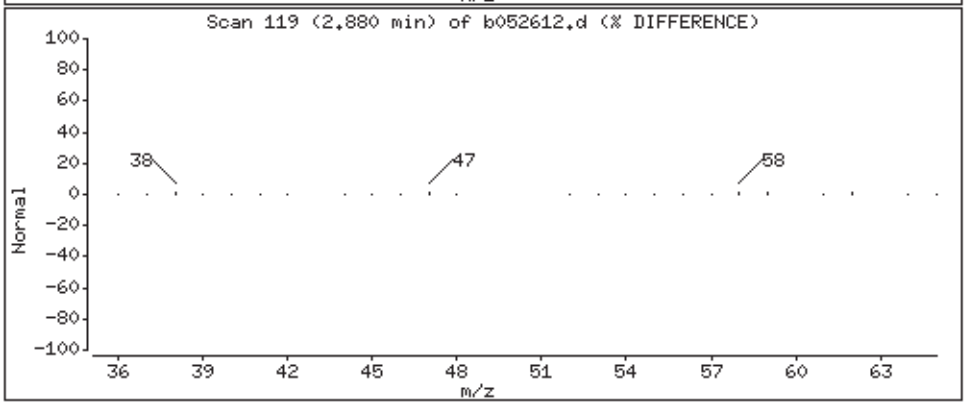












Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: D-10

Lab ID#: 1005522A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	34	36	69	75
Acetone	34	300	80	710

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-10

Lab ID#: 1005522A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052613**	**Date of Collection:**	**5/19/10 2:23:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**5/27/10 12:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.4	Not Detected	42	Not Detected
Freon 114	8.4	Not Detected	59	Not Detected
Chloromethane	34	36	69	75
Vinyl Chloride	8.4	Not Detected	21	Not Detected
1,3-Butadiene	8.4	Not Detected	18	Not Detected
Bromomethane	8.4	Not Detected	33	Not Detected
Chloroethane	8.4	Not Detected	22	Not Detected
Freon 11	8.4	Not Detected	47	Not Detected
Ethanol	34	Not Detected	63	Not Detected
Freon 113	8.4	Not Detected	64	Not Detected
1,1-Dichloroethene	8.4	Not Detected	33	Not Detected
Acetone	34	300	80	710
2-Propanol	34	Not Detected	82	Not Detected
Carbon Disulfide	8.4	Not Detected	26	Not Detected
3-Chloropropene	34	Not Detected	100	Not Detected
Methylene Chloride	8.4	Not Detected	29	Not Detected
Methyl tert-butyl ether	8.4	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.4	Not Detected	33	Not Detected
Hexane	8.4	Not Detected	30	Not Detected
1,1-Dichloroethane	8.4	Not Detected	34	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.4	Not Detected	25	Not Detected
cis-1,2-Dichloroethene	8.4	Not Detected	33	Not Detected
Tetrahydrofuran	8.4	Not Detected	25	Not Detected
Chloroform	8.4	Not Detected	41	Not Detected
1,1,1-Trichloroethane	8.4	Not Detected	46	Not Detected
Cyclohexane	8.4	Not Detected	29	Not Detected
Carbon Tetrachloride	8.4	Not Detected	53	Not Detected
2,2,4-Trimethylpentane	8.4	Not Detected	39	Not Detected
Benzene	8.4	Not Detected	27	Not Detected
1,2-Dichloroethane	8.4	Not Detected	34	Not Detected
Heptane	8.4	Not Detected	34	Not Detected
Trichloroethene	8.4	Not Detected	45	Not Detected
1,2-Dichloropropane	8.4	Not Detected	39	Not Detected
1,4-Dioxane	34	Not Detected	120	Not Detected
Bromodichloromethane	8.4	Not Detected	56	Not Detected
cis-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
4-Methyl-2-pentanone	8.4	Not Detected	34	Not Detected
Toluene	8.4	Not Detected	32	Not Detected
trans-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-10

Lab ID#: 1005522A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052613**	**Date of Collection: 5/19/10 2:23:00 PM**	
Dil. Factor:	**1.68**	**Date of Analysis: 5/27/10 12:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	8.4	Not Detected	46	Not Detected
Tetrachloroethene	8.4	Not Detected	57	Not Detected
2-Hexanone	34	Not Detected	140	Not Detected
Dibromochloromethane	8.4	Not Detected	72	Not Detected
1,2-Dibromoethane (EDB)	8.4	Not Detected	64	Not Detected
Chlorobenzene	8.4	Not Detected	39	Not Detected
Ethyl Benzene	8.4	Not Detected	36	Not Detected
m,p-Xylene	8.4	Not Detected	36	Not Detected
o-Xylene	8.4	Not Detected	36	Not Detected
Styrene	8.4	Not Detected	36	Not Detected
Bromoform	8.4	Not Detected	87	Not Detected
Cumene	8.4	Not Detected	41	Not Detected
1,1,2,2-Tetrachloroethane	8.4	Not Detected	58	Not Detected
Propylbenzene	8.4	Not Detected	41	Not Detected
4-Ethyltoluene	8.4	Not Detected	41	Not Detected
1,3,5-Trimethylbenzene	8.4	Not Detected	41	Not Detected
1,2,4-Trimethylbenzene	8.4	Not Detected	41	Not Detected
1,3-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.4	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.4	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	34	Not Detected	250	Not Detected
Hexachlorobutadiene	34	Not Detected	360	Not Detected
TPH ref. to Gasoline (MW=100)	170	Not Detected	690	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052613.d
Lab Smp Id: 1005522A-02A
Inj Date : 27-MAY-2010 12:45
Operator : ED Inst ID: msdb.i
Smp Info : 50.0ml #34445
Misc Info : 6.0"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: TO15.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.895	4.909 (1.000)	130	179880	400.000		80.00- 120.00	100.00
4.895	4.909 (1.000)	128	139017			46.65- 106.65	77.28
4.895	4.909 (1.000)	49	184101			72.67- 132.67	102.35
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	669695	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	93640			0.00- 44.13	13.98
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	623574	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	300609			0.00- 30.00	48.21
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.134)	65	187078	400.520	400.52	80.00- 120.00	100.00
5.552	5.552 (1.134)	67	96945			26.01- 86.01	51.82
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	639837	396.812	396.81	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	62376			0.00- 39.95	9.75

				CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	425233			44.59- 104.59	66.46
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.211	10.212 (1.098)	174	368400	383.191	383.19	80.00- 120.00	100.00
10.211	10.212 (1.098)	95	408387			79.27- 139.27	110.85
10.211	10.212 (1.098)	176	354244			66.78- 126.78	96.16
12 Chloromethane					CAS #: 74-87-3		
1.481	1.509 (0.302)	50	10738	21.7184	36.487	80.00- 120.00	100.00
1.481	1.509 (0.302)	52	4640			0.98- 60.98	43.21
38 Acetone					CAS #: 67-64-1		
2.880	2.894 (0.588)	58	44045	177.111	297.54	80.00- 120.00	100.00
2.880	2.894 (0.588)	43	133565			293.27- 353.27	303.25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052613.d
Lab Smp Id: 1005522A-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: ED
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 6.0"Hg -> 5.0 Psi

Calibration Date: 26-MAY-2010
Calibration Time: 23:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	213867	128320	299414	179880	-15.89
94 1,4-Difluorobenze	789670	473802	1105538	669695	-15.19
125 Chlorobenzene-d5	751322	450793	1051851	623574	-17.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.89	-0.29
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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: 08-Jun-2010 13:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1005522A-02A
Level: LOW Operator: ED
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: TO15.sub
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 6.0"Hg -> 5.0 Psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86 1,2-Dichloroethane	400.00	400.52	100.13	70-130
$ 110 Toluene-d8	400.00	396.81	99.20	70-130
$ 139 Bromofluorobenzene	400.00	383.19	95.80	70-130

Data File: /chem/msdb.i/26may10.b/b052613.d

Date : 27-MAY-2010 12:45

Client ID:

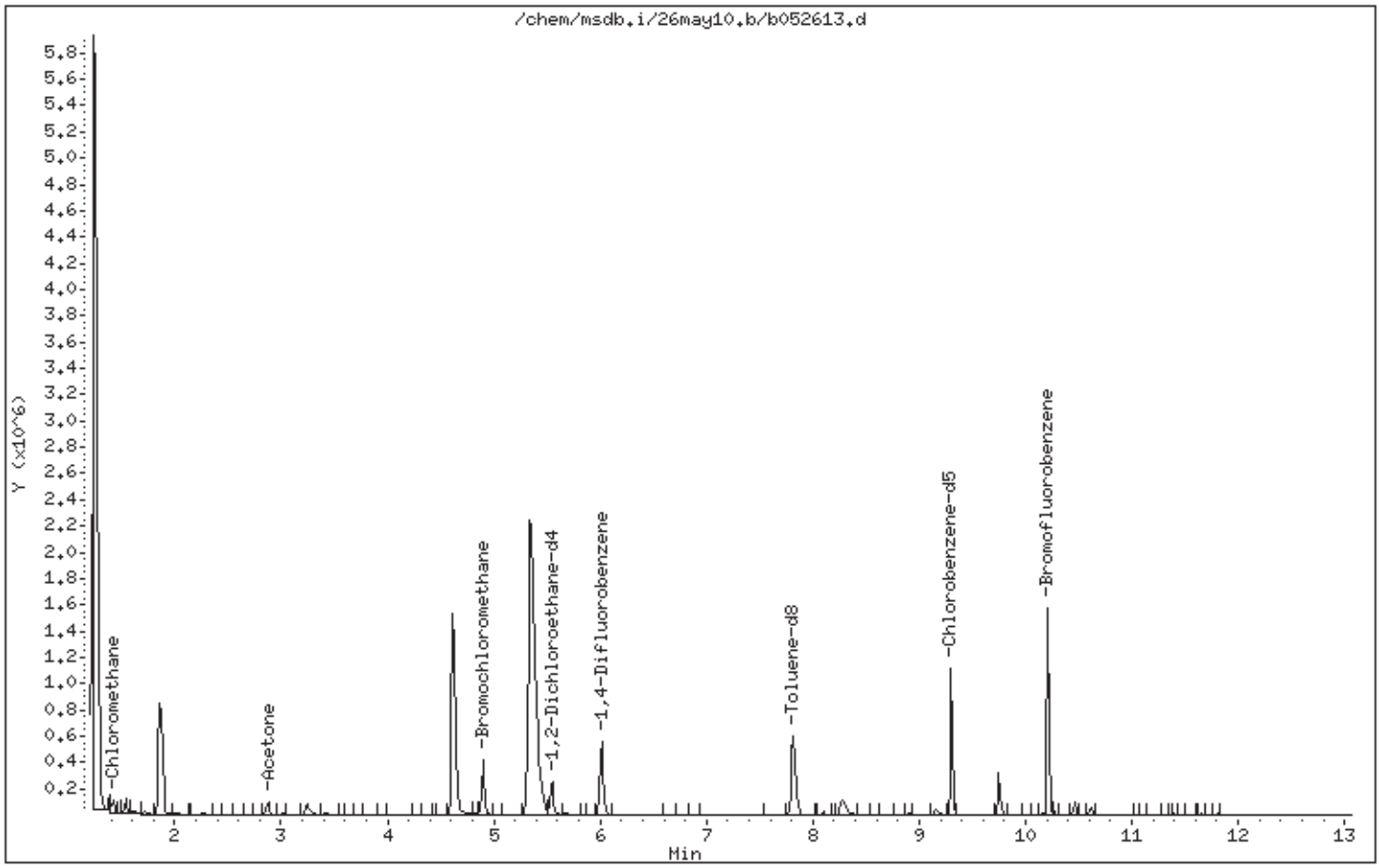
Instrument: msdb.i

Sample Info: 50.0ml #34445

Operator: ED

Column phase: RTx-624

Column diameter: 0.53



Data File: /chem/msdb.i/26may10.b/b052613.d

Date : 27-MAY-2010 12:45

Client ID:

Instrument: msdb.i

Sample Info: 50.0ml #34445

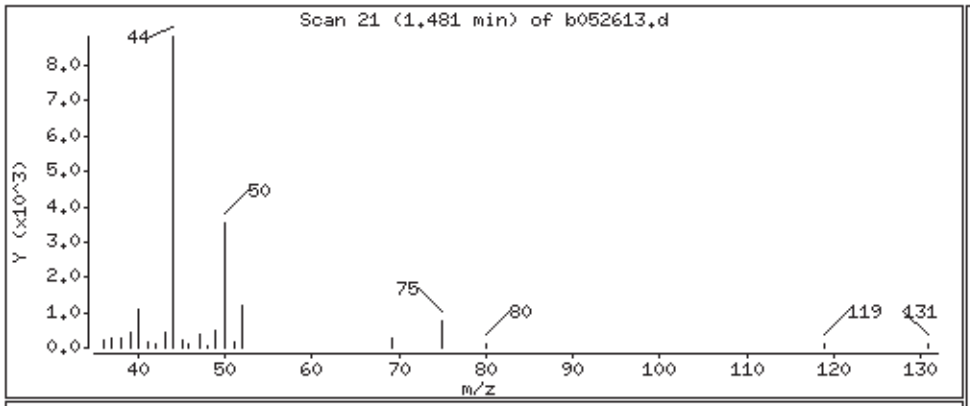
Operator: ED

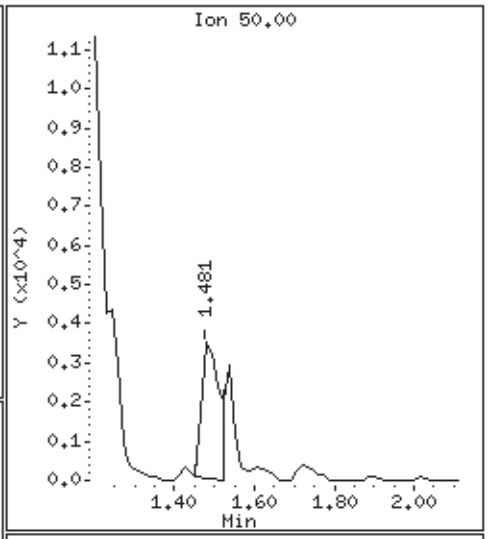
Column phase: RTx-624

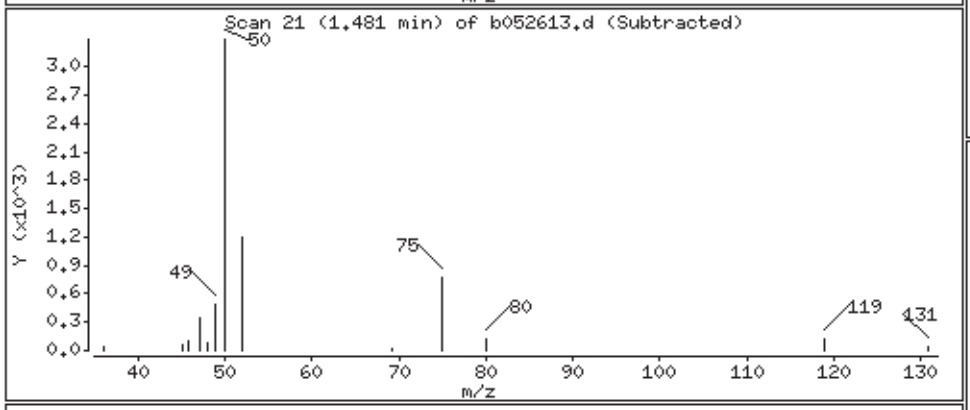
Column diameter: 0.53

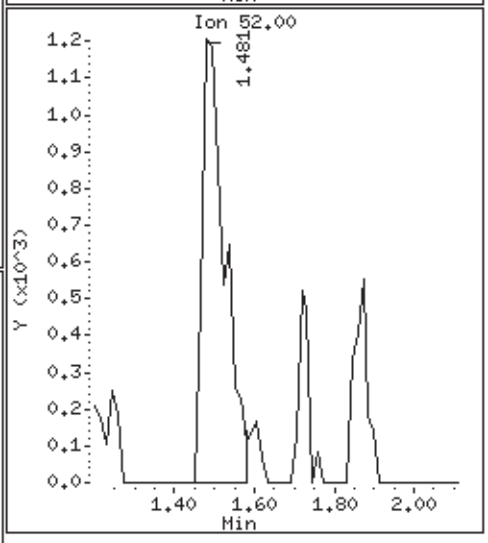
12 Chloromethane

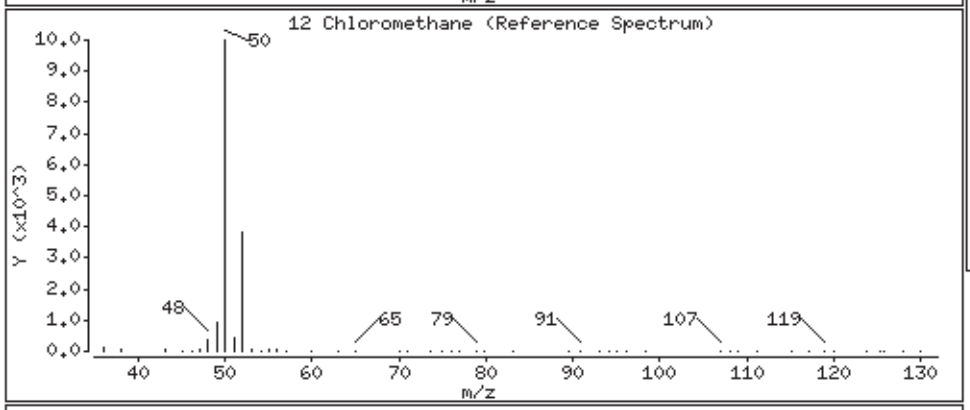
Concentration: 36.487 PPBV

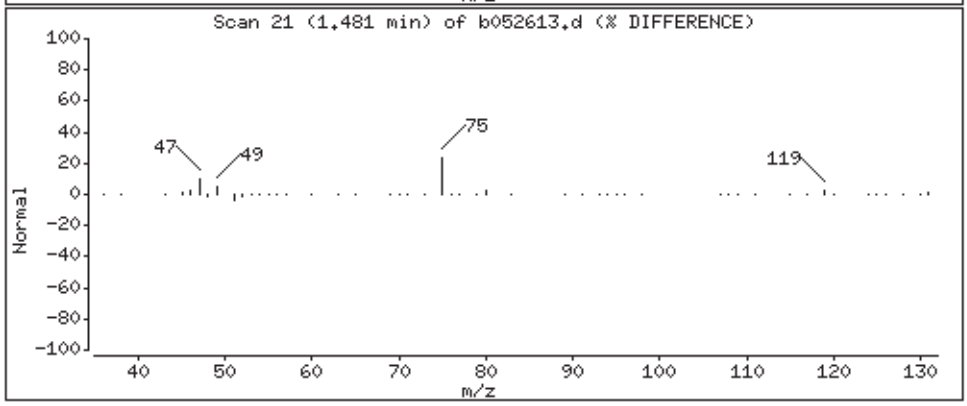












Data File: /chem/msdb.i/26may10.b/b052613.d

Date : 27-MAY-2010 12:45

Client ID:

Instrument: msdb.i

Sample Info: 50.0ml #34445

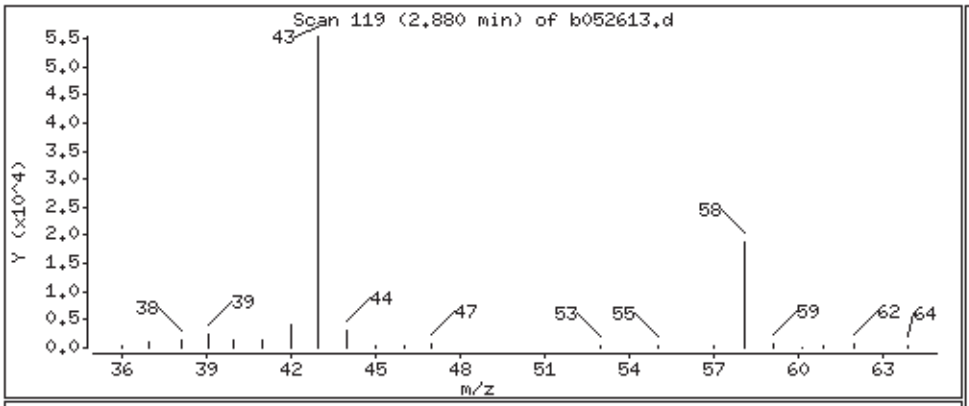
Operator: ED

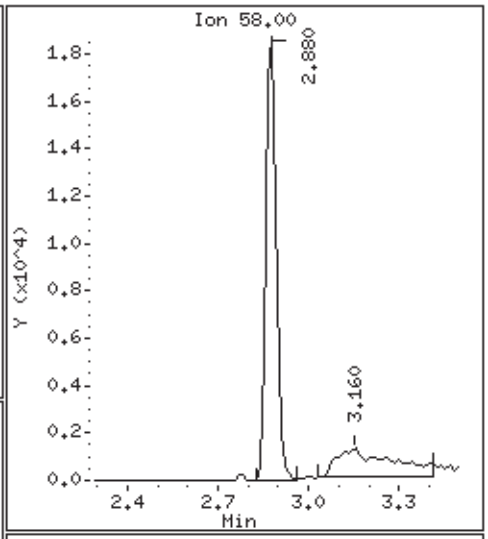
Column phase: RTx-624

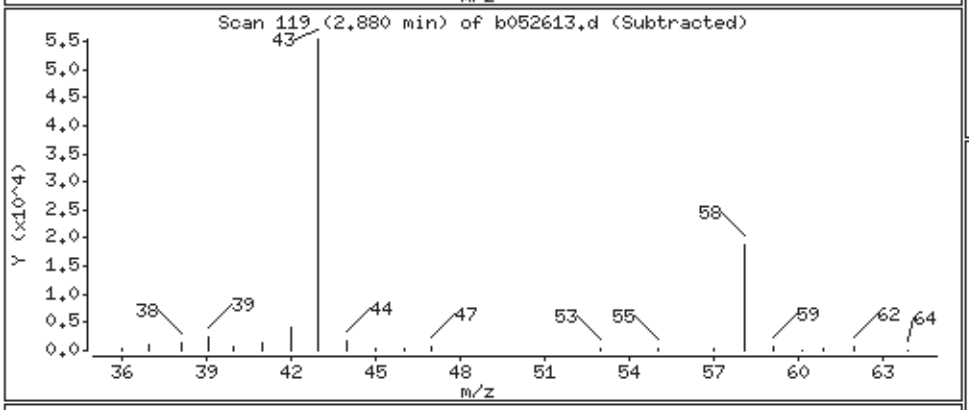
Column diameter: 0.53

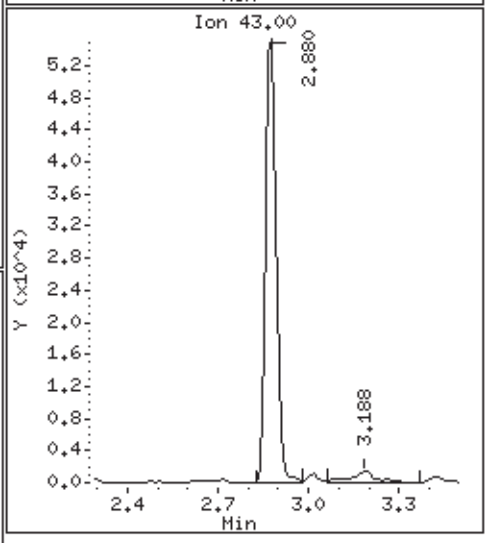
38 Acetone

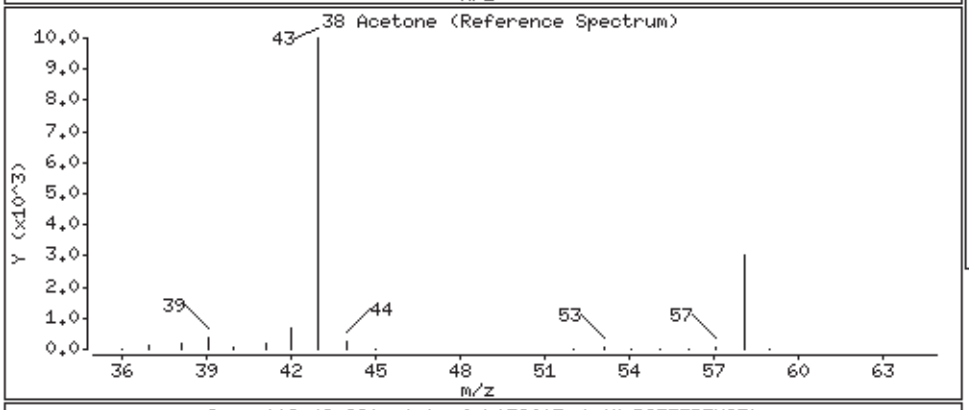
Concentration: 297.54 PPBV

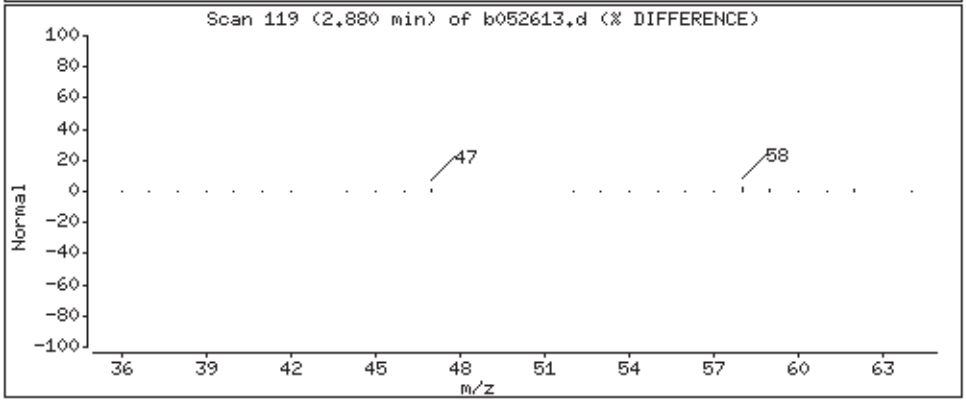












Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: D-10 Lab Duplicate

Lab ID#: 1005522A-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	34	35	69	73
Acetone	34	320	80	750

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-10 Lab Duplicate

Lab ID#: 1005522A-02AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052614**	**Date of Collection:**	**5/19/10 2:23:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**5/27/10 01:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.4	Not Detected	42	Not Detected
Freon 114	8.4	Not Detected	59	Not Detected
Chloromethane	34	35	69	73
Vinyl Chloride	8.4	Not Detected	21	Not Detected
1,3-Butadiene	8.4	Not Detected	18	Not Detected
Bromomethane	8.4	Not Detected	33	Not Detected
Chloroethane	8.4	Not Detected	22	Not Detected
Freon 11	8.4	Not Detected	47	Not Detected
Ethanol	34	Not Detected	63	Not Detected
Freon 113	8.4	Not Detected	64	Not Detected
1,1-Dichloroethene	8.4	Not Detected	33	Not Detected
Acetone	34	320	80	750
2-Propanol	34	Not Detected	82	Not Detected
Carbon Disulfide	8.4	Not Detected	26	Not Detected
3-Chloropropene	34	Not Detected	100	Not Detected
Methylene Chloride	8.4	Not Detected	29	Not Detected
Methyl tert-butyl ether	8.4	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.4	Not Detected	33	Not Detected
Hexane	8.4	Not Detected	30	Not Detected
1,1-Dichloroethane	8.4	Not Detected	34	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.4	Not Detected	25	Not Detected
cis-1,2-Dichloroethene	8.4	Not Detected	33	Not Detected
Tetrahydrofuran	8.4	Not Detected	25	Not Detected
Chloroform	8.4	Not Detected	41	Not Detected
1,1,1-Trichloroethane	8.4	Not Detected	46	Not Detected
Cyclohexane	8.4	Not Detected	29	Not Detected
Carbon Tetrachloride	8.4	Not Detected	53	Not Detected
2,2,4-Trimethylpentane	8.4	Not Detected	39	Not Detected
Benzene	8.4	Not Detected	27	Not Detected
1,2-Dichloroethane	8.4	Not Detected	34	Not Detected
Heptane	8.4	Not Detected	34	Not Detected
Trichloroethene	8.4	Not Detected	45	Not Detected
1,2-Dichloropropane	8.4	Not Detected	39	Not Detected
1,4-Dioxane	34	Not Detected	120	Not Detected
Bromodichloromethane	8.4	Not Detected	56	Not Detected
cis-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
4-Methyl-2-pentanone	8.4	Not Detected	34	Not Detected
Toluene	8.4	Not Detected	32	Not Detected
trans-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-10 Lab Duplicate

Lab ID#: 1005522A-02AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052614**	**Date of Collection: 5/19/10 2:23:00 PM**	
Dil. Factor:	**1.68**	**Date of Analysis: 5/27/10 01:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	8.4	Not Detected	46	Not Detected
Tetrachloroethene	8.4	Not Detected	57	Not Detected
2-Hexanone	34	Not Detected	140	Not Detected
Dibromochloromethane	8.4	Not Detected	72	Not Detected
1,2-Dibromoethane (EDB)	8.4	Not Detected	64	Not Detected
Chlorobenzene	8.4	Not Detected	39	Not Detected
Ethyl Benzene	8.4	Not Detected	36	Not Detected
m,p-Xylene	8.4	Not Detected	36	Not Detected
o-Xylene	8.4	Not Detected	36	Not Detected
Styrene	8.4	Not Detected	36	Not Detected
Bromoform	8.4	Not Detected	87	Not Detected
Cumene	8.4	Not Detected	41	Not Detected
1,1,2,2-Tetrachloroethane	8.4	Not Detected	58	Not Detected
Propylbenzene	8.4	Not Detected	41	Not Detected
4-Ethyltoluene	8.4	Not Detected	41	Not Detected
1,3,5-Trimethylbenzene	8.4	Not Detected	41	Not Detected
1,2,4-Trimethylbenzene	8.4	Not Detected	41	Not Detected
1,3-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.4	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.4	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	34	Not Detected	250	Not Detected
Hexachlorobutadiene	34	Not Detected	360	Not Detected
TPH ref. to Gasoline (MW=100)	170	Not Detected	690	Not Detected

Container Type: 6 Liter Summa Canister

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052614.d
Lab Smp Id: 1005522A-02AA
Inj Date : 27-MAY-2010 13:06
Operator : ED Inst ID: msdb.i
Smp Info : 50.0ml #34445
Misc Info : 6.0"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: TO15.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	205100	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	158298			46.65- 106.65	77.18
4.909	4.909 (1.000)	49	206338			72.67- 132.67	100.60
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	755221	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	104101			0.00- 44.13	13.78
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	687996	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	335791			0.00- 30.00	48.81
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	205424	385.718	385.72	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	110631			26.01- 86.01	53.85
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	713482	392.375	392.38	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	70104			0.00- 39.95	9.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	472238			44.59- 104.59	66.19
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	407166	383.857	383.86	80.00- 120.00	100.00
10.212	10.212 (1.098)	95	461188			79.27- 139.27	113.27
10.212	10.212 (1.098)	176	403269			66.78- 126.78	99.04
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	11854	21.0275	35.326	80.00- 120.00	100.00
1.509	1.509 (0.307)	52	6079			0.98- 60.98	51.28
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	53561	188.892	317.34	80.00- 120.00	100.00
2.894	2.894 (0.590)	43	164110			293.27- 353.27	306.39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052614.d
Lab Smp Id: 1005522A-02AA
Analysis Type: VOA
Quant Type: ISTD
Operator: ED
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 6.0"Hg -> 5.0 Psi

Calibration Date: 26-MAY-2010
Calibration Time: 23:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	213867	128320	299414	205100	-4.10
94 1,4-Difluorobenze	789670	473802	1105538	755221	-4.36
125 Chlorobenzene-d5	751322	450793	1051851	687996	-8.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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: 08-Jun-2010 13:59

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1005522A-02AA
Level: LOW Operator: ED
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: TO15.sub
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 6.0"Hg -> 5.0 Psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86 1,2-Dichloroethane	400.00	385.72	96.43	70-130
$ 110 Toluene-d8	400.00	392.38	98.09	70-130
$ 139 Bromofluorobenzene	400.00	383.86	95.96	70-130

Data File: /chem/msdb.i/26may10.b/b052614.d

Date : 27-MAY-2010 13:06

Client ID:

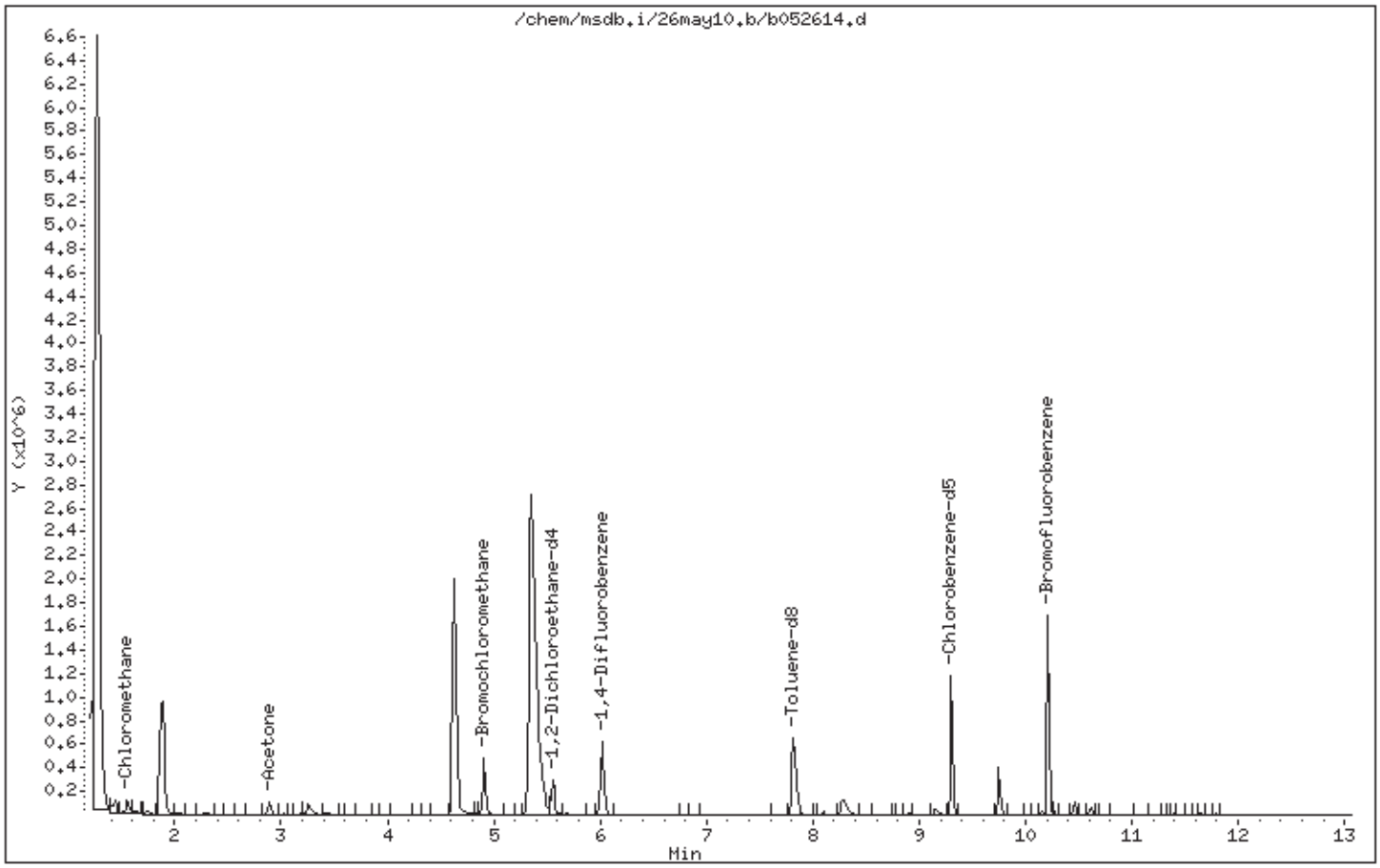
Instrument: msdb.i

Sample Info: 50.0ml #34445

Operator: ED

Column phase: RTx-624

Column diameter: 0.53



Data File: /chem/msdb.i/26may10.b/b052614.d

Date : 27-MAY-2010 13:06

Client ID:

Instrument: msdb.i

Sample Info: 50.0ml #34445

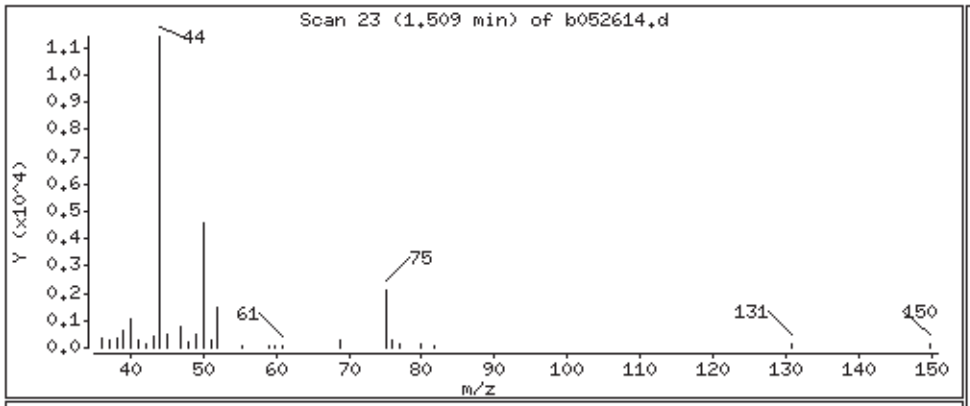
Operator: ED

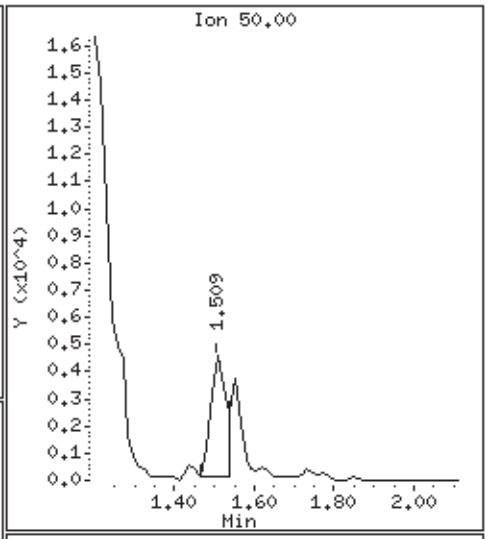
Column phase: RTx-624

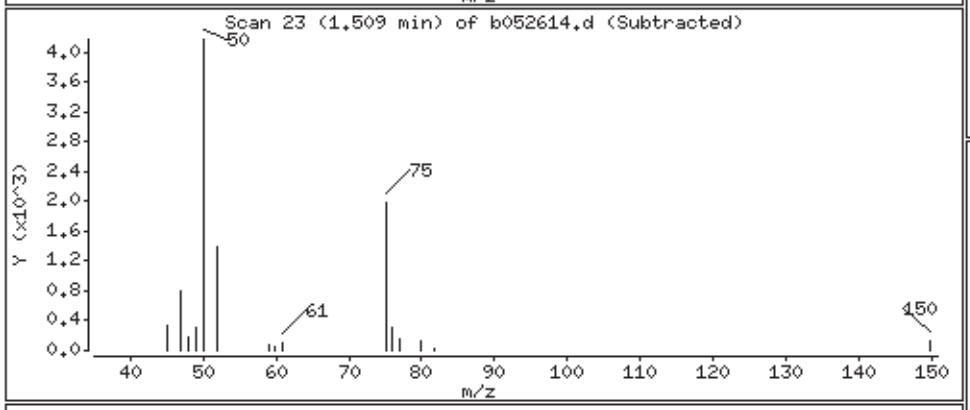
Column diameter: 0.53

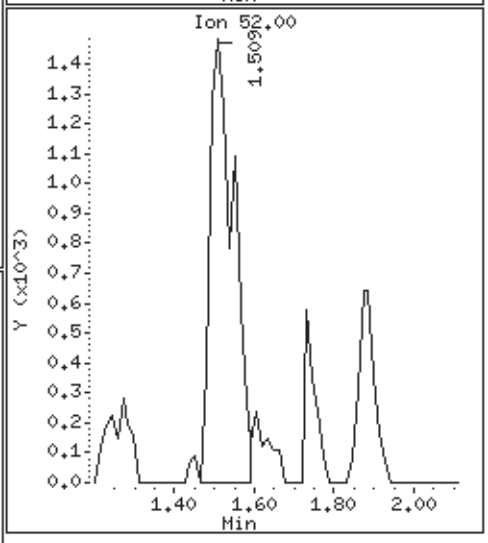
12 Chloromethane

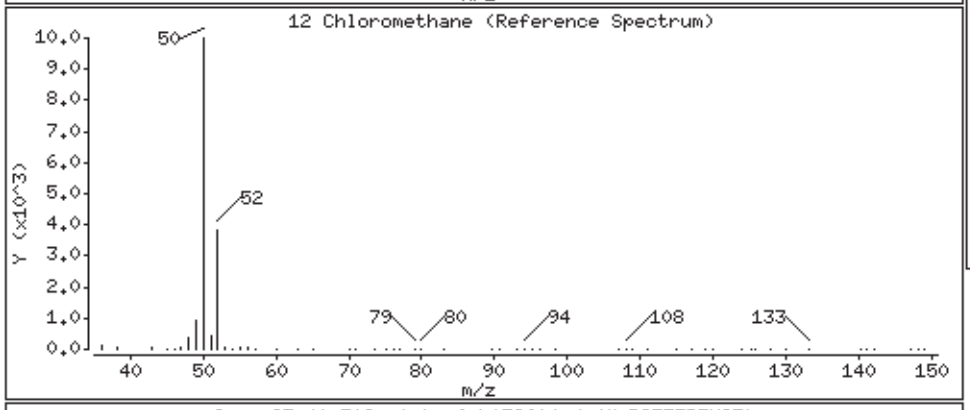
Concentration: 35.326 PPBV

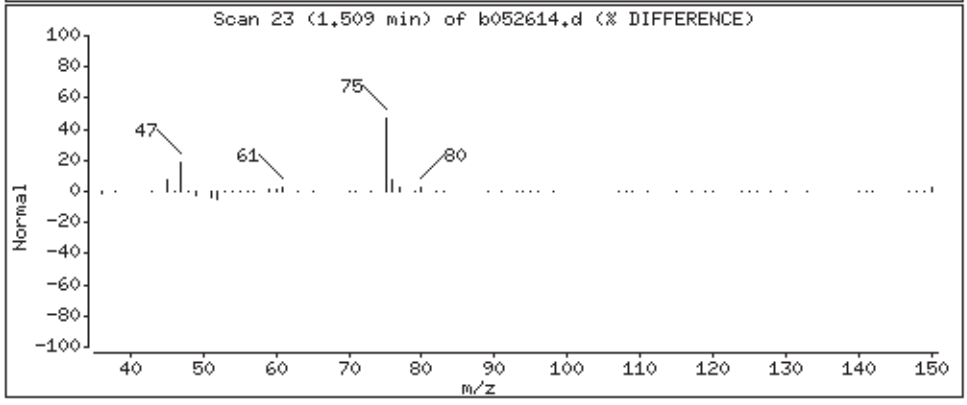












Data File: /chem/msdb.i/26may10.b/b052614.d

Date : 27-MAY-2010 13:06

Client ID:

Instrument: msdb.i

Sample Info: 50.0ml #34445

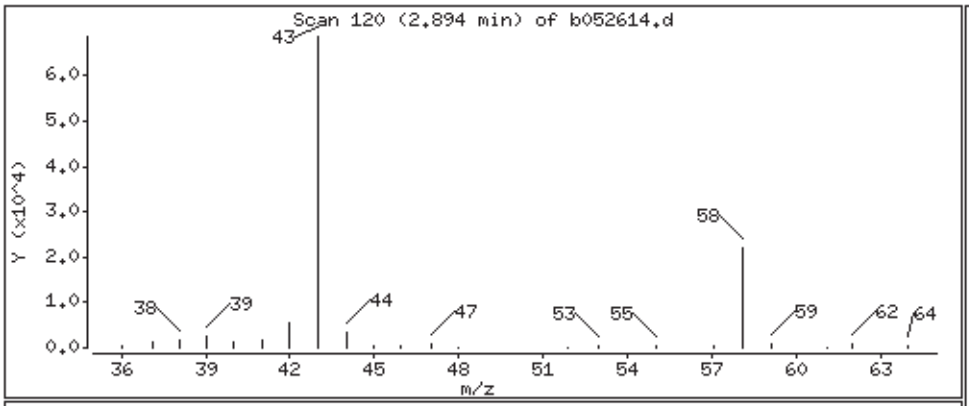
Operator: ED

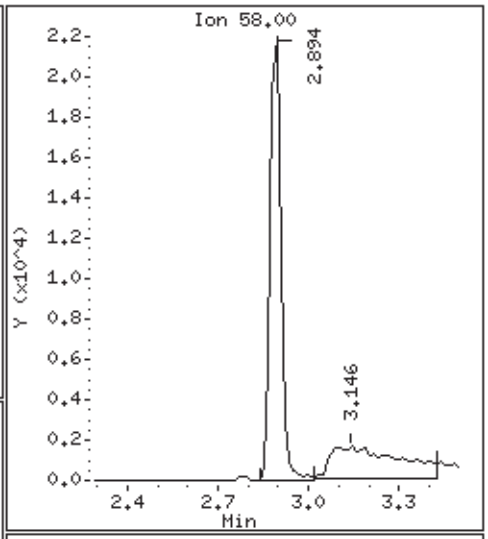
Column phase: RTx-624

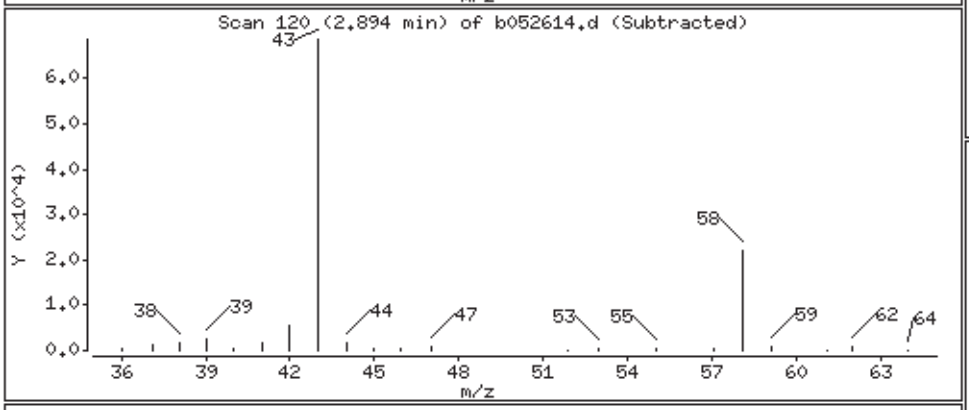
Column diameter: 0.53

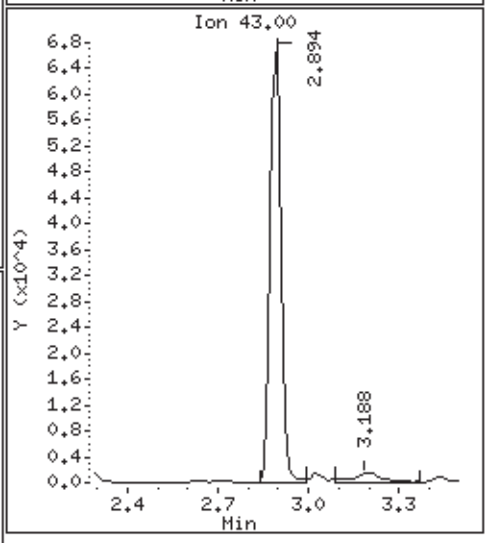
38 Acetone

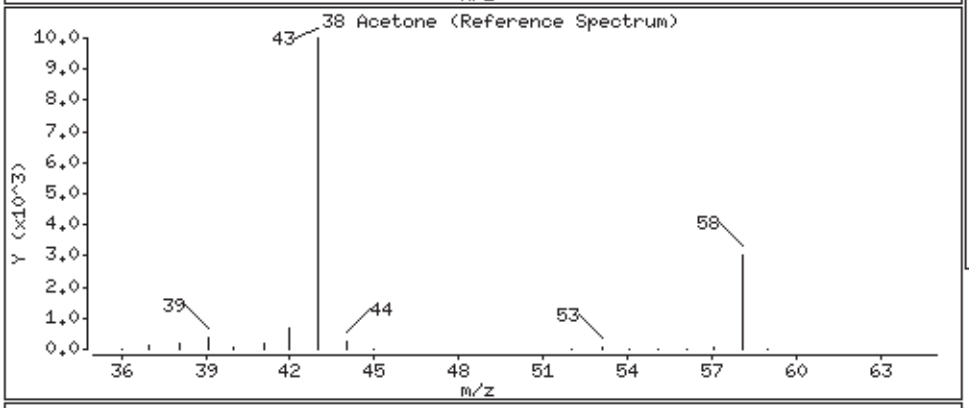
Concentration: 317.34 PPBV

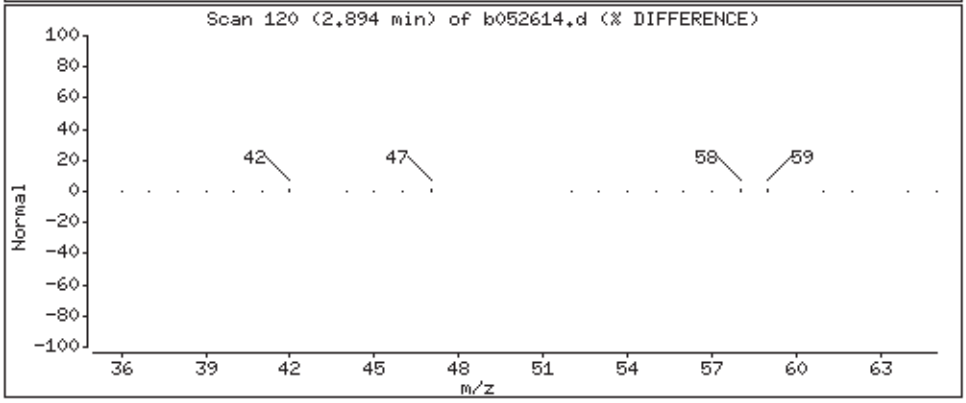












Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: GV-12

Lab ID#: 1005522A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	31	32	64	65
Methylene Chloride	7.8	11	27	39
Tetrahydrofuran	7.8	10	23	30

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-12

Lab ID#: 1005522A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052620**	**Date of Collection: 5/16/10**	
Dil. Factor:	**1.55**	**Date of Analysis: 5/27/10 07:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.8	Not Detected	38	Not Detected
Freon 114	7.8	Not Detected	54	Not Detected
Chloromethane	31	32	64	65
Vinyl Chloride	7.8	Not Detected	20	Not Detected
1,3-Butadiene	7.8	Not Detected	17	Not Detected
Bromomethane	7.8	Not Detected	30	Not Detected
Chloroethane	7.8	Not Detected	20	Not Detected
Freon 11	7.8	Not Detected	44	Not Detected
Ethanol	31	Not Detected	58	Not Detected
Freon 113	7.8	Not Detected	59	Not Detected
1,1-Dichloroethene	7.8	Not Detected	31	Not Detected
Acetone	31	Not Detected	74	Not Detected
2-Propanol	31	Not Detected	76	Not Detected
Carbon Disulfide	7.8	Not Detected	24	Not Detected
3-Chloropropene	31	Not Detected	97	Not Detected
Methylene Chloride	7.8	11	27	39
Methyl tert-butyl ether	7.8	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	7.8	Not Detected	31	Not Detected
Hexane	7.8	Not Detected	27	Not Detected
1,1-Dichloroethane	7.8	Not Detected	31	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.8	Not Detected	23	Not Detected
cis-1,2-Dichloroethene	7.8	Not Detected	31	Not Detected
Tetrahydrofuran	7.8	10	23	30
Chloroform	7.8	Not Detected	38	Not Detected
1,1,1-Trichloroethane	7.8	Not Detected	42	Not Detected
Cyclohexane	7.8	Not Detected	27	Not Detected
Carbon Tetrachloride	7.8	Not Detected	49	Not Detected
2,2,4-Trimethylpentane	7.8	Not Detected	36	Not Detected
Benzene	7.8	Not Detected	25	Not Detected
1,2-Dichloroethane	7.8	Not Detected	31	Not Detected
Heptane	7.8	Not Detected	32	Not Detected
Trichloroethene	7.8	Not Detected	42	Not Detected
1,2-Dichloropropane	7.8	Not Detected	36	Not Detected
1,4-Dioxane	31	Not Detected	110	Not Detected
Bromodichloromethane	7.8	Not Detected	52	Not Detected
cis-1,3-Dichloropropene	7.8	Not Detected	35	Not Detected
4-Methyl-2-pentanone	7.8	Not Detected	32	Not Detected
Toluene	7.8	Not Detected	29	Not Detected
trans-1,3-Dichloropropene	7.8	Not Detected	35	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-12

Lab ID#: 1005522A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052620**	**Date of Collection: 5/16/10**	
Dil. Factor:	**1.55**	**Date of Analysis: 5/27/10 07:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	7.8	Not Detected	42	Not Detected
Tetrachloroethene	7.8	Not Detected	52	Not Detected
2-Hexanone	31	Not Detected	130	Not Detected
Dibromochloromethane	7.8	Not Detected	66	Not Detected
1,2-Dibromoethane (EDB)	7.8	Not Detected	60	Not Detected
Chlorobenzene	7.8	Not Detected	36	Not Detected
Ethyl Benzene	7.8	Not Detected	34	Not Detected
m,p-Xylene	7.8	Not Detected	34	Not Detected
o-Xylene	7.8	Not Detected	34	Not Detected
Styrene	7.8	Not Detected	33	Not Detected
Bromoform	7.8	Not Detected	80	Not Detected
Cumene	7.8	Not Detected	38	Not Detected
1,1,2,2-Tetrachloroethane	7.8	Not Detected	53	Not Detected
Propylbenzene	7.8	Not Detected	38	Not Detected
4-Ethyltoluene	7.8	Not Detected	38	Not Detected
1,3,5-Trimethylbenzene	7.8	Not Detected	38	Not Detected
1,2,4-Trimethylbenzene	7.8	Not Detected	38	Not Detected
1,3-Dichlorobenzene	7.8	Not Detected	46	Not Detected
1,4-Dichlorobenzene	7.8	Not Detected	46	Not Detected
alpha-Chlorotoluene	7.8	Not Detected	40	Not Detected
1,2-Dichlorobenzene	7.8	Not Detected	46	Not Detected
1,2,4-Trichlorobenzene	31	Not Detected	230	Not Detected
Hexachlorobutadiene	31	Not Detected	330	Not Detected
TPH ref. to Gasoline (MW=100)	160	Not Detected	630	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052620.d
Lab Smp Id: 1005522A-04A
Inj Date : 27-MAY-2010 19:07
Operator : gd Inst ID: msdb.i
Smp Info : 50mL #35285
Misc Info : 4.0"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.55000
Integrator: HP RTE Compound Sublist: TO15.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
* 75 Bromochloromethane						CAS #: 74-97-5	
4.909	4.909 (1.000)	130	193462	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	148029			46.65- 106.65	76.52
4.909	4.909 (1.000)	49	197950			72.67- 132.67	102.32
* 94 1,4-Difluorobenzene						CAS #: 540-36-3	
6.014	6.014 (1.000)	114	722998	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	101289			0.00- 44.13	14.01
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
9.302	9.302 (1.000)	117	671766	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	321741			0.00- 30.00	47.89
$ 86 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.552	5.552 (1.131)	65	202294	402.691	402.69	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	107968			26.01- 86.01	53.37
$ 110 Toluene-d8						CAS #: 2037-26-5	
7.819	7.819 (1.300)	98	688541	395.535	395.54	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	67163			0.00- 39.95	9.75

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	457351			44.59- 104.59	66.42
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	404930	390.972	390.97	80.00- 120.00	100.00
10.212	10.212 (1.098)	95	449556			79.27- 139.27	111.02
10.212	10.212 (1.098)	176	390121			66.78- 126.78	96.34
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	10835	20.3761	31.583	80.00- 120.00	100.00
1.509	1.509 (0.307)	52	3992			0.98- 60.98	36.85
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	5277	7.30820	11.328	80.00- 120.00	100.00
3.314	3.314 (0.675)	84	4534			51.49- 111.49	85.91
3.314	3.314 (0.675)	51	1538			0.00- 59.35	29.16
74 Tetrahydrofuran					CAS #: 109-99-9		
4.909	4.895 (1.000)	42	4224	6.53600	10.131	80.00- 120.00	100.00
4.909	4.895 (1.000)	71	1474			11.27- 71.27	34.90
4.909	4.895 (1.000)	72	1842			12.35- 72.35	43.63

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052620.d
Lab Smp Id: 1005522A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 4.0"Hg -> 5.0 Psi

Calibration Date: 26-MAY-2010
Calibration Time: 23:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	213867	128320	299414	193462	-9.54
94 1,4-Difluorobenze	789670	473802	1105538	722998	-8.44
125 Chlorobenzene-d5	751322	450793	1051851	671766	-10.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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: 08-Jun-2010 14:01

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1005522A-04A
Level: LOW Operator: gd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: TO15.sub
Method File: /chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 4.0"Hg -> 5.0 Psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86 1,2-Dichloroethane	400.00	402.69	100.67	70-130
$ 110 Toluene-d8	400.00	395.54	98.88	70-130
$ 139 Bromofluorobenzene	400.00	390.97	97.74	70-130

Data File: /chem/msdb.i/26may10.b/b052620.d

Date : 27-MAY-2010 19:07

Client ID:

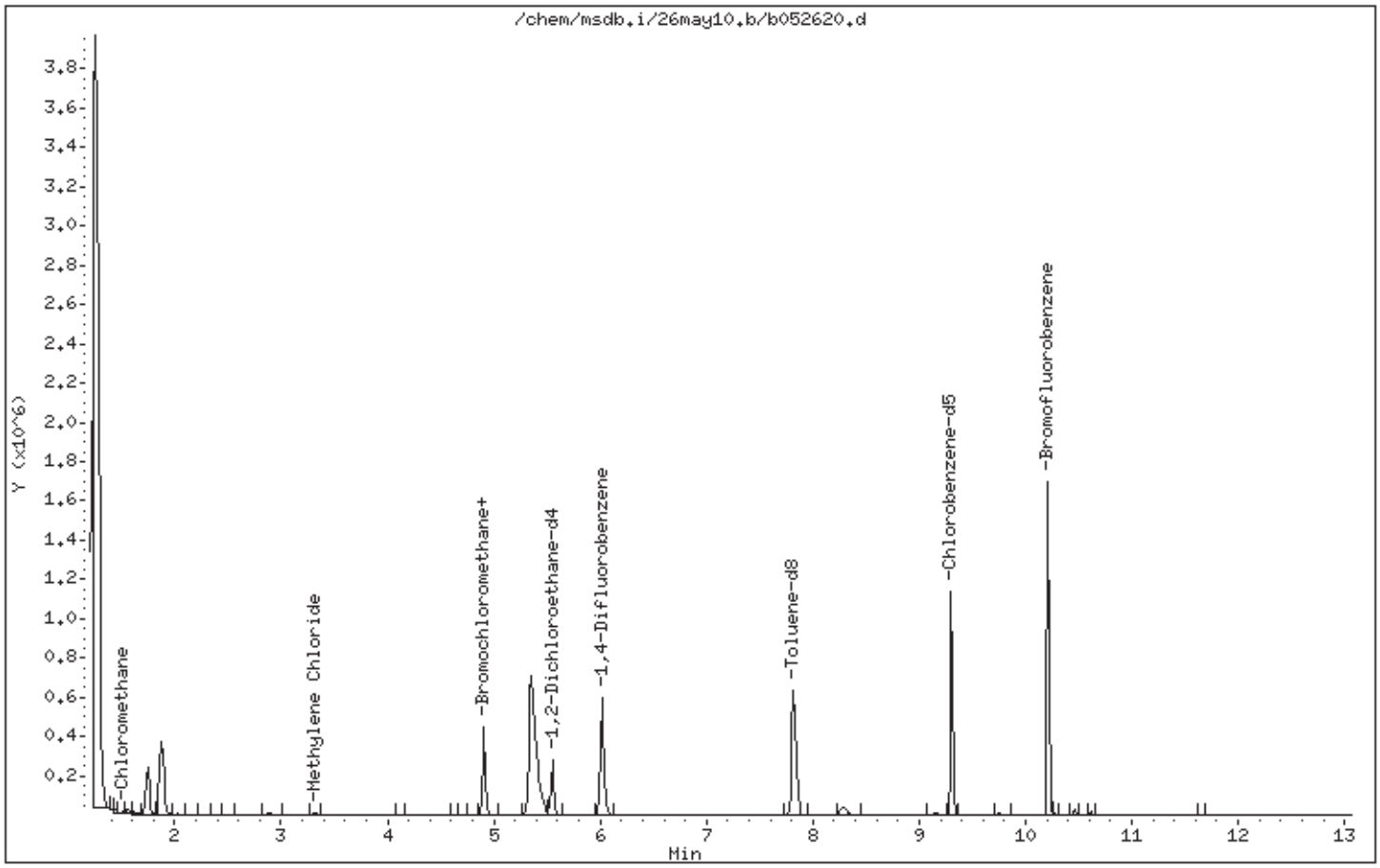
Instrument: msdb.i

Sample Info: 50mL #35285

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Data File: /chem/msdb.i/26may10.b/b052620.d

Date : 27-MAY-2010 19:07

Client ID:

Instrument: msdb.i

Sample Info: 50mL #35285

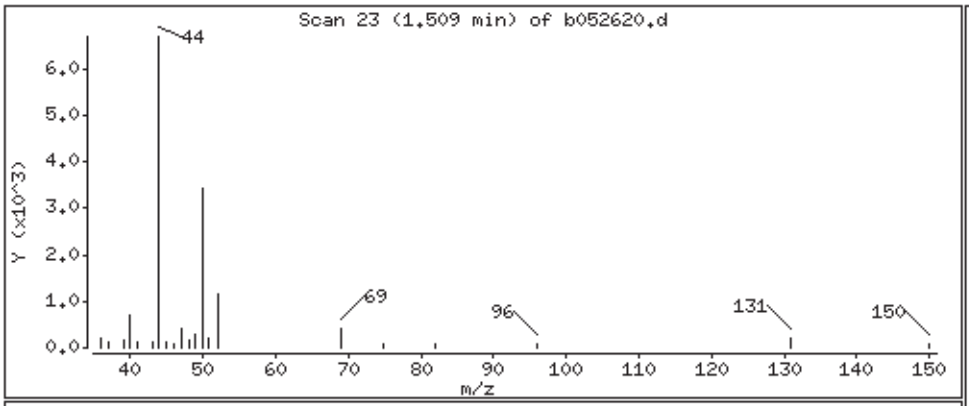
Operator: gd

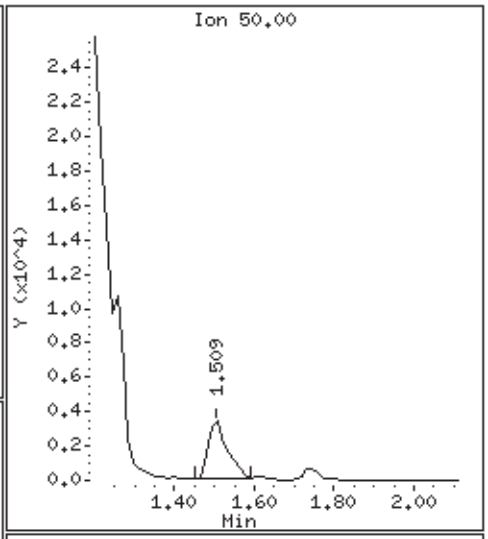
Column phase: RTx-624

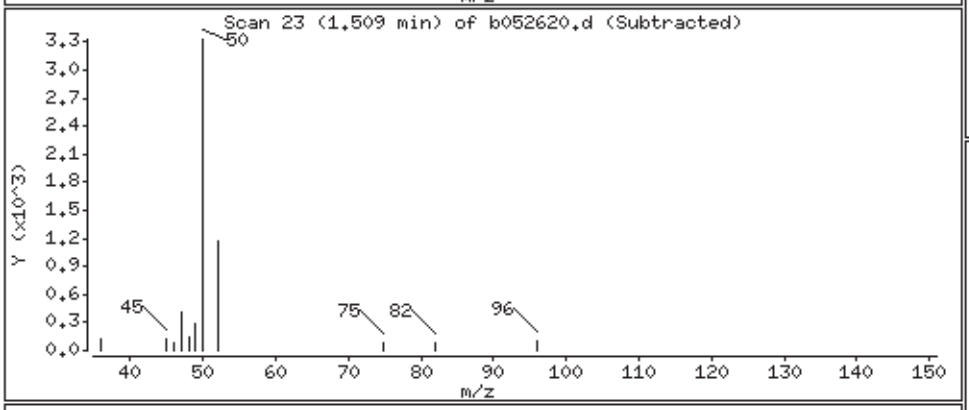
Column diameter: 0.53

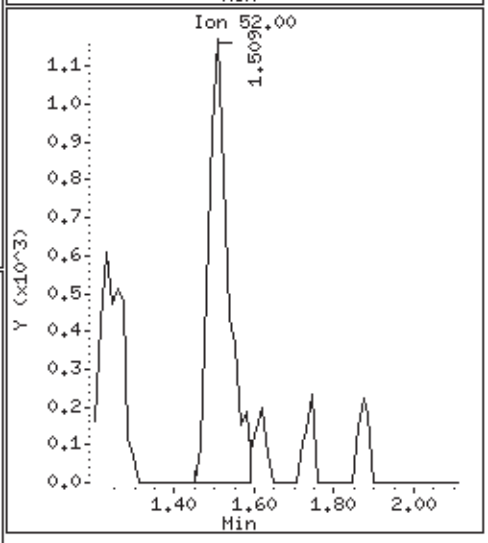
12 Chloromethane

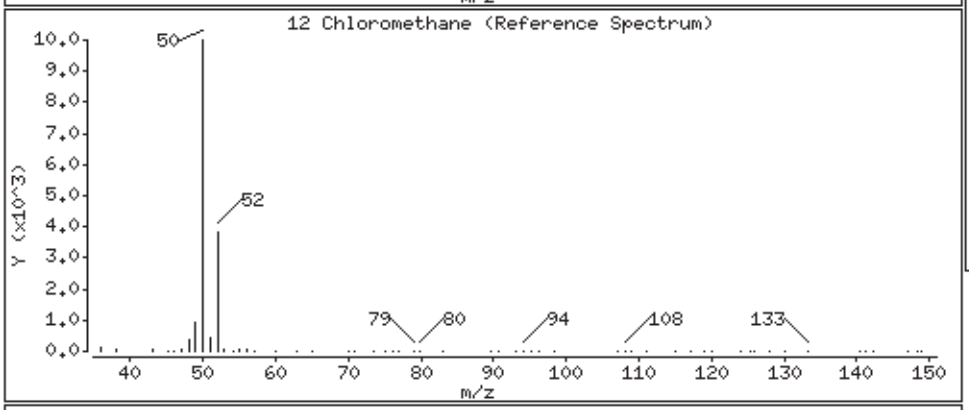
Concentration: 31.583 PPBV

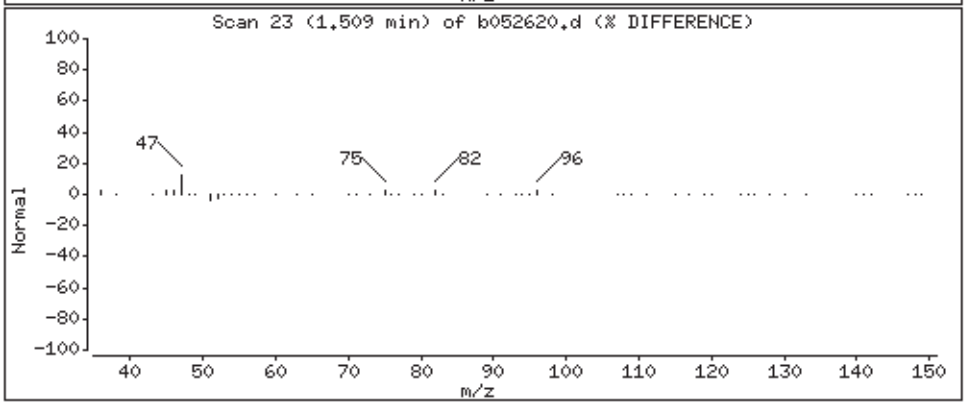












Data File: /chem/msdb.i/26may10.b/b052620.d

Date : 27-MAY-2010 19:07

Client ID:

Instrument: msdb.i

Sample Info: 50mL #35285

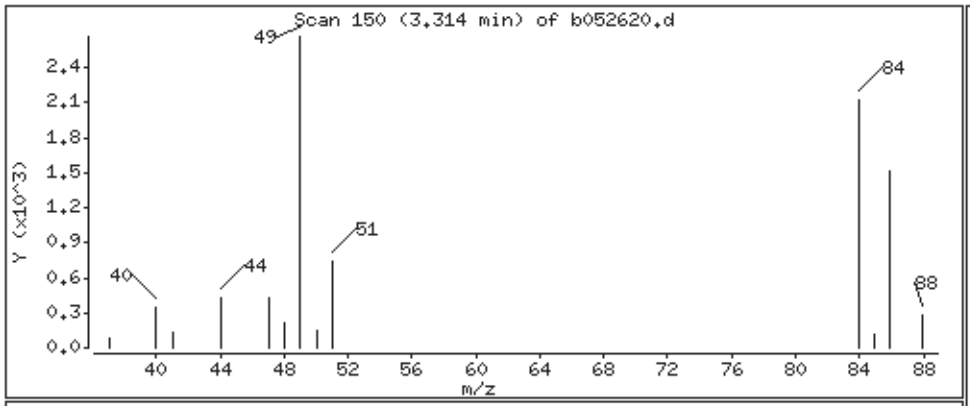
Operator: gd

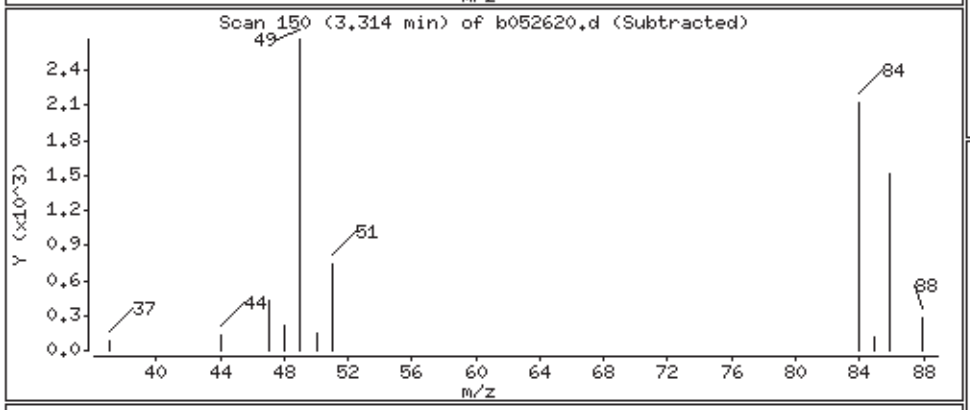
Column phase: RTx-624

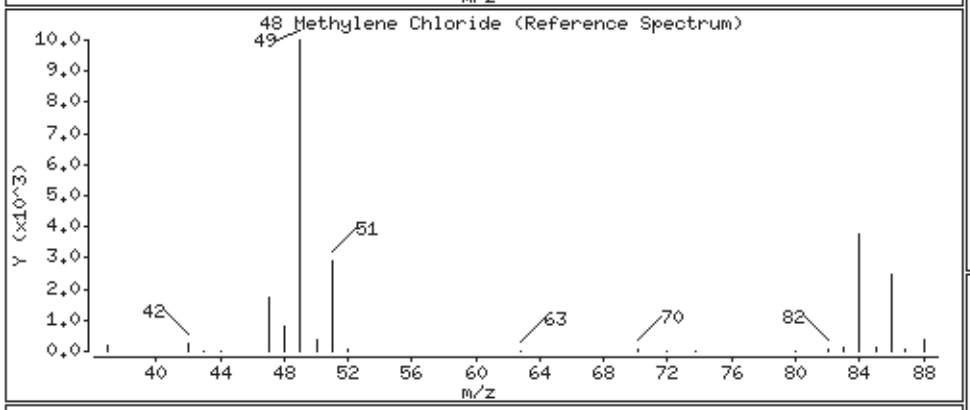
Column diameter: 0.53

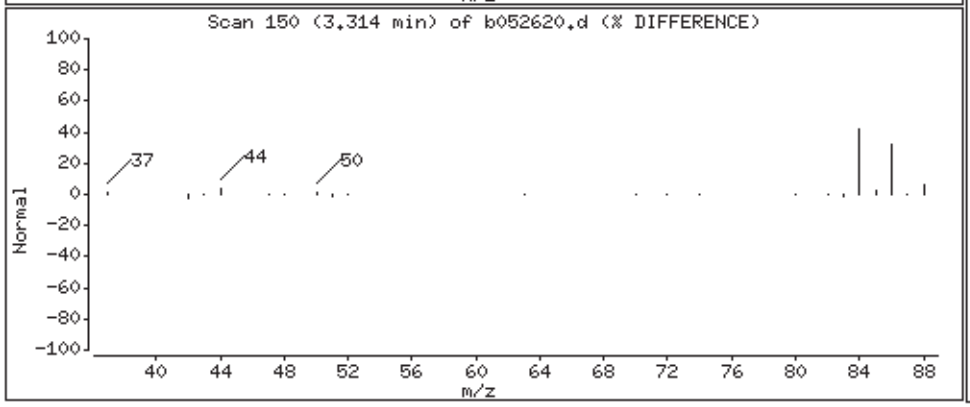
48 Methylene Chloride

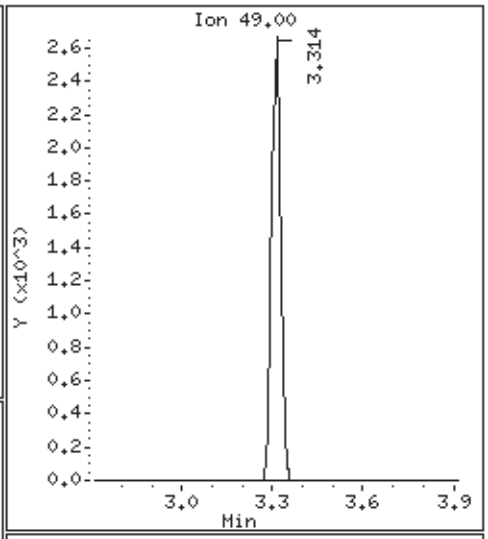
Concentration: 11.328 PPBV

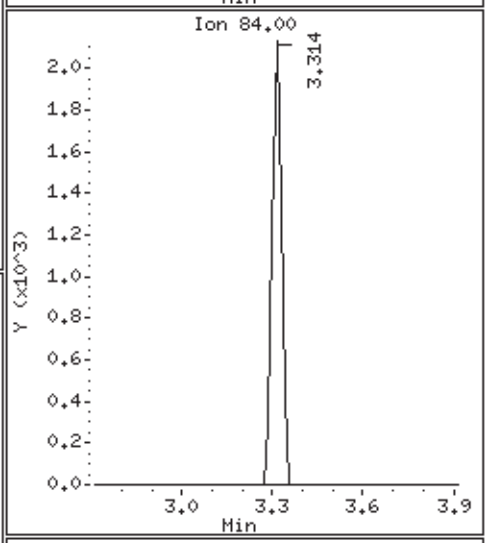


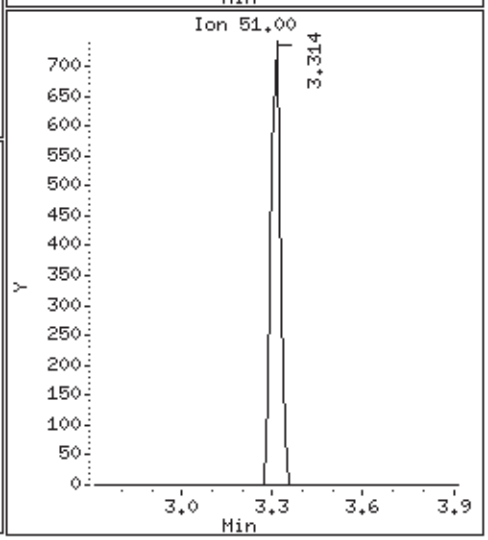












Data File: /chem/msdb.i/26may10.b/b052620.d

Date : 27-MAY-2010 19:07

Client ID:

Instrument: msdb.i

Sample Info: 50mL #35285

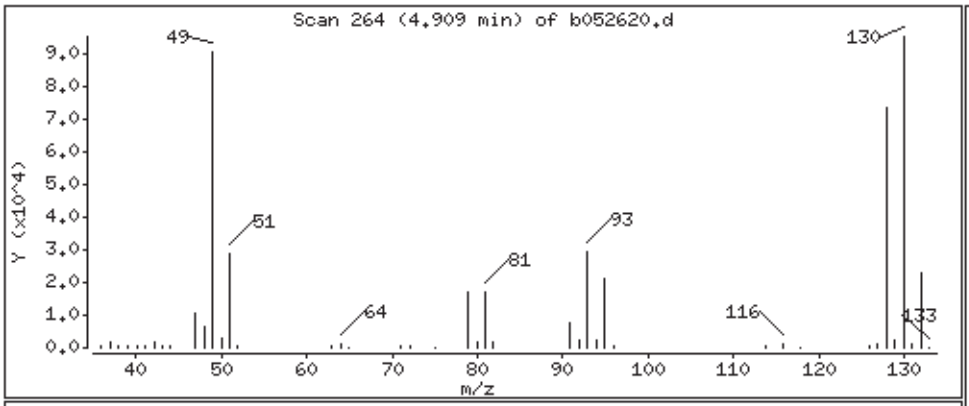
Operator: gd

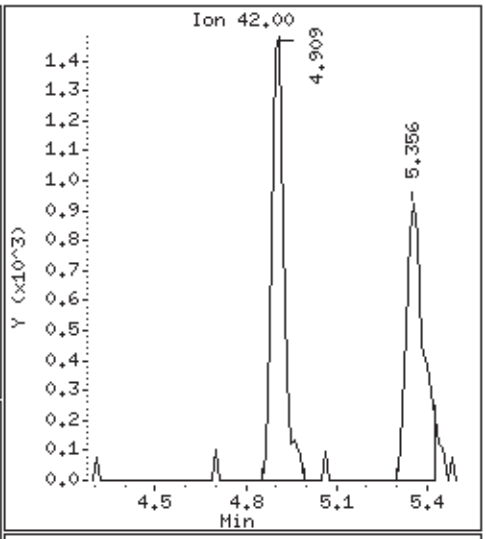
Column phase: RTx-624

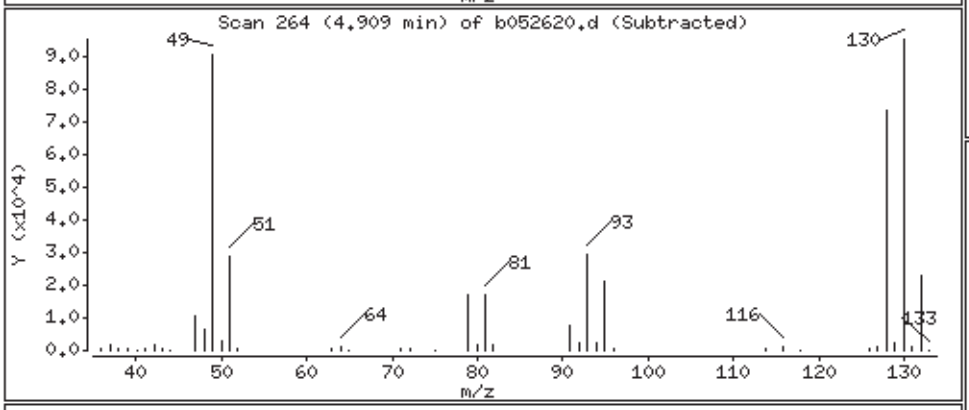
Column diameter: 0.53

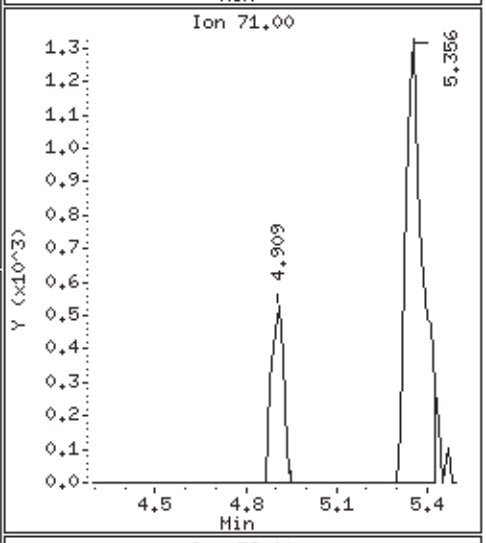
74 Tetrahydrofuran

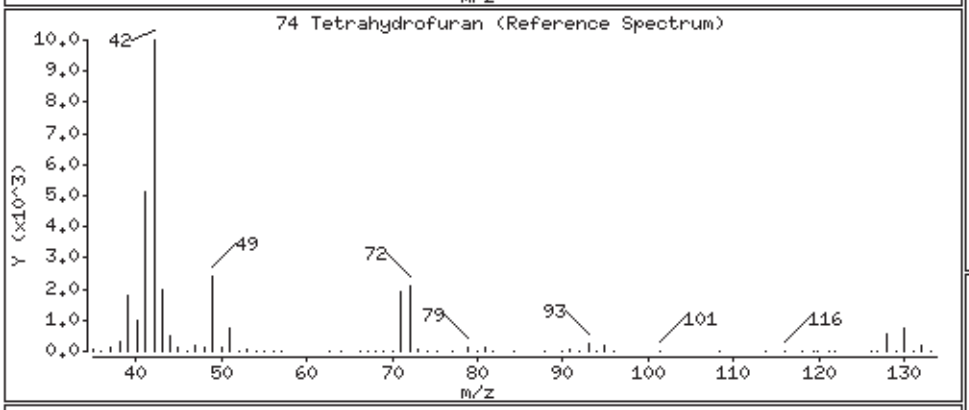
Concentration: 10.131 PPBV

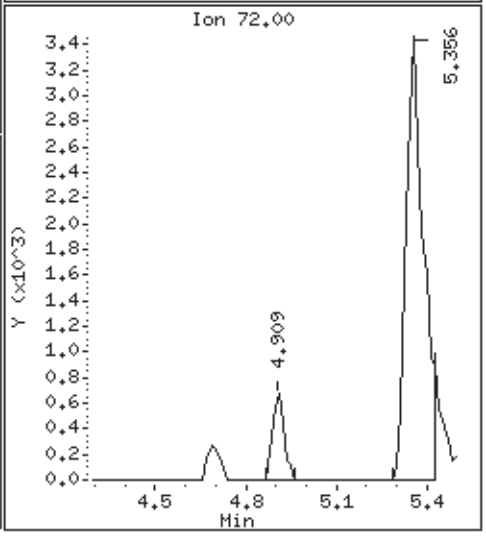


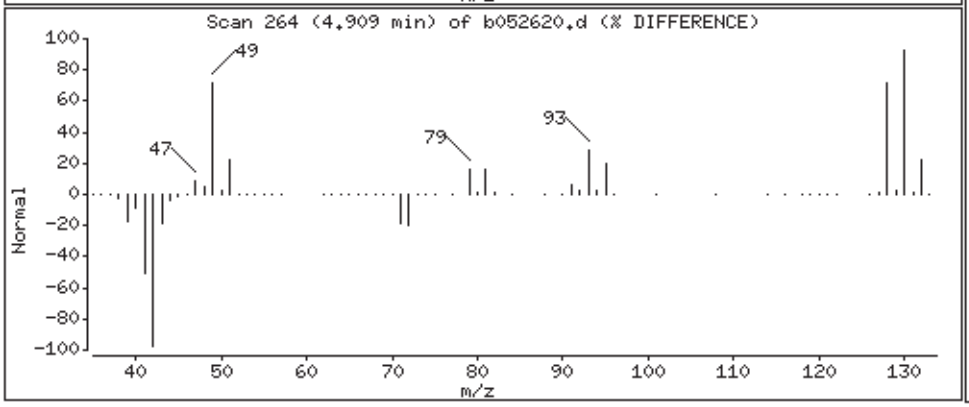












Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: Trip Blank

Lab ID#: 1005522A-11A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1005522A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060218**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 04:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1005522A-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060218**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 04:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/02jun10.b/w060218.d
Lab Smp Id: 1005522A-11A
Inj Date : 02-JUN-2010 16:56
Operator : gd Inst ID: msdw.i
Smp Info : 50ml,4235
Misc Info : 28.5"Hg>5.0psi, Exponent
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15.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
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	120265	400.000		80.00- 120.00	100.00
5.370	5.370 (1.000)	128	94064			0.00- 30.00	78.21
5.356	5.356 (1.000)	49	168547			107.67- 167.67	140.15
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	451192	400.000		80.00- 120.00	100.00
6.490	6.490 (1.000)	88	57420			0.00- 30.00	12.73
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	434855	400.000		80.00- 120.00	100.00
8.924	8.924 (1.000)	82	207563			0.00- 30.00	47.73
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	145489	359.984	359.98	80.00- 120.00	100.00
6.028	6.028 (1.122)	67	71553			0.00- 30.00	49.18
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	428696	393.334	393.33	80.00- 120.00	100.00
7.847	7.847 (1.209)	70	43606			0.00- 30.00	10.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	294785			0.00- 30.00	68.76
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	241807	397.676	397.68	80.00- 120.00	100.00
9.652	9.652 (1.082)	95	272784			84.13- 144.13	112.81
9.652	9.652 (1.082)	176	233874			66.07- 126.07	96.72

Report Date: 08-Jun-2010 14:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w060218.d
Lab Smp Id: 1005522A-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: 28.5"Hg>5.0psi, Exponent

Calibration Date: 02-JUN-2010
Calibration Time: 10:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	140702	84421	196983	120265	-14.53
93 1,4-Difluorobenze	529979	317987	741971	451192	-14.87
126 Chlorobenzene-d5	520409	312245	728573	434855	-16.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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: 08-Jun-2010 14:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02jun10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1005522A-11A
Level: LOW Operator: gd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: TO15.sub
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: 28.5"Hg>5.0psi, Exponent

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 88 1,2-Dichloroethane	400.00	359.98	90.00	70-130
$ 108 Toluene-d8	400.00	393.33	98.33	70-130
$ 142 Bromofluorobenzene	400.00	397.68	99.42	70-130

Data File: /chem/msdw.i/02jun10.b/w060218.d

Date : 02-JUN-2010 16:56

Client ID:

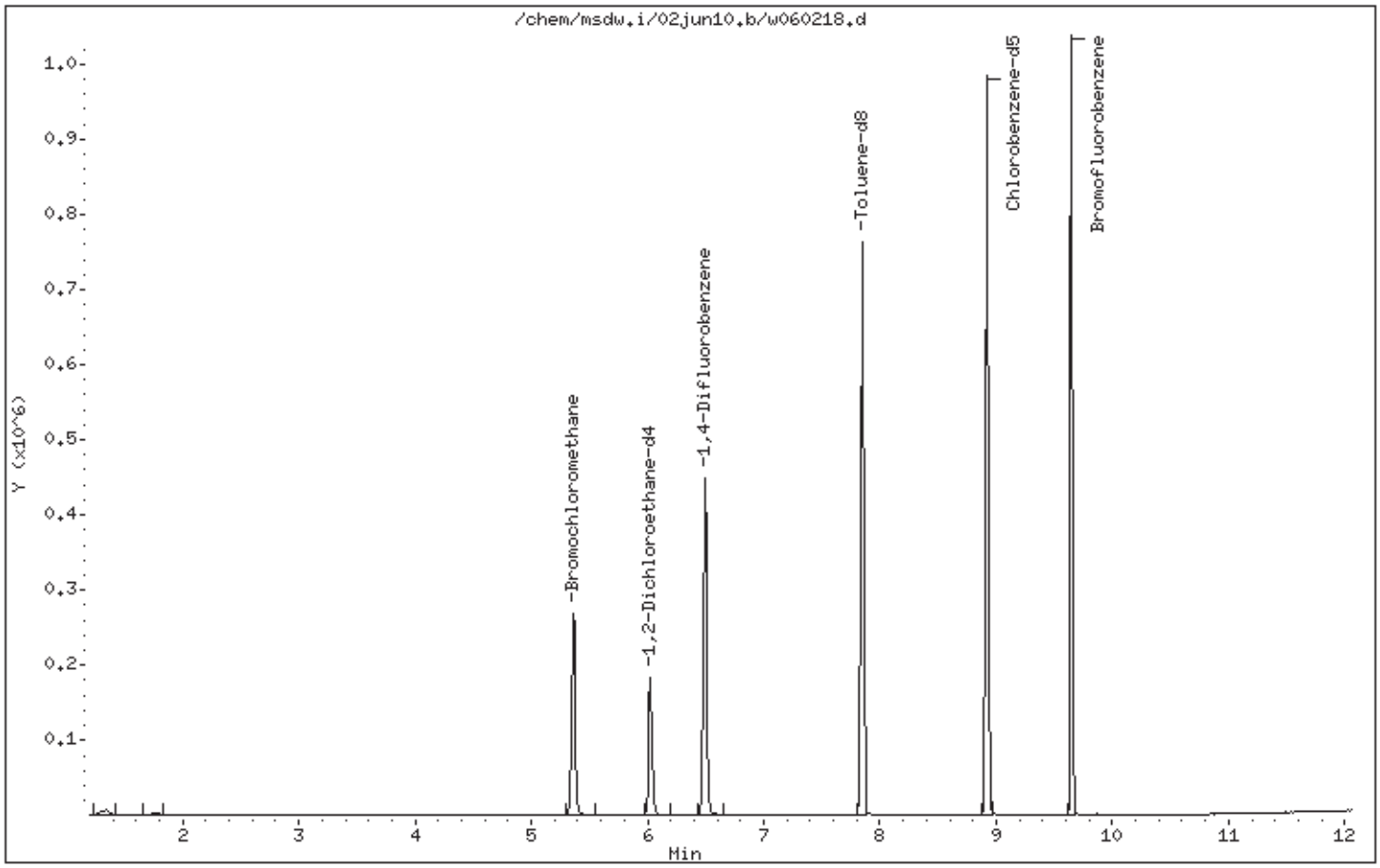
Instrument: msdw.i

Sample Info: 50ml,4235

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005522A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 03:11 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005522A-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 03:11 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected

Container Type: NA - Not Applicable

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052606.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 27-MAY-2010 03:11
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #34261
Misc Info : Humid
Comment :
Method : /var/chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 27-May-2010 02:30 edanek Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	199758	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	155387			46.65- 106.65	77.79
4.909	4.909 (1.000)	49	205327			72.67- 132.67	102.79
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	753868	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	105711			0.00- 44.13	14.02
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	695065	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	337462			0.00- 30.00	48.55
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	206228	397.583	397.58	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	108899			26.01- 86.01	52.81
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	719019	396.130	396.13	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	70682			0.00- 39.95	9.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	478243			44.59- 104.59	66.51
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	424187	395.836	395.84	80.00- 120.00	100.00
10.212	10.212 (1.098)	95	462753			79.27- 139.27	109.09
10.212	10.212 (1.098)	176	410455			66.78- 126.78	96.76

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052606.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /var/chem/msdb.i/26may10.b/b1050504c.m
Misc Info: Humid

Calibration Date: 26-MAY-2010
Calibration Time: 23:57
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	213867	128320	299414	199758	-6.60
94 1,4-Difluorobenze	789670	473802	1105538	753868	-4.53
125 Chlorobenzene-d5	751322	450793	1051851	695065	-7.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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: 26may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: ww
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /var/chem/msdb.i/26may10.b/b1050504c.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86 1,2-Dichloroethane	400.00	397.58	99.40	70-130
$ 110 Toluene-d8	400.00	396.13	99.03	70-130
$ 139 Bromofluorobenzene	400.00	395.84	98.96	70-130

Data File: /chem/msdb.i/26may10.b/b052606.d

Date : 27-MAY-2010 03:11

Client ID: Lab Blank

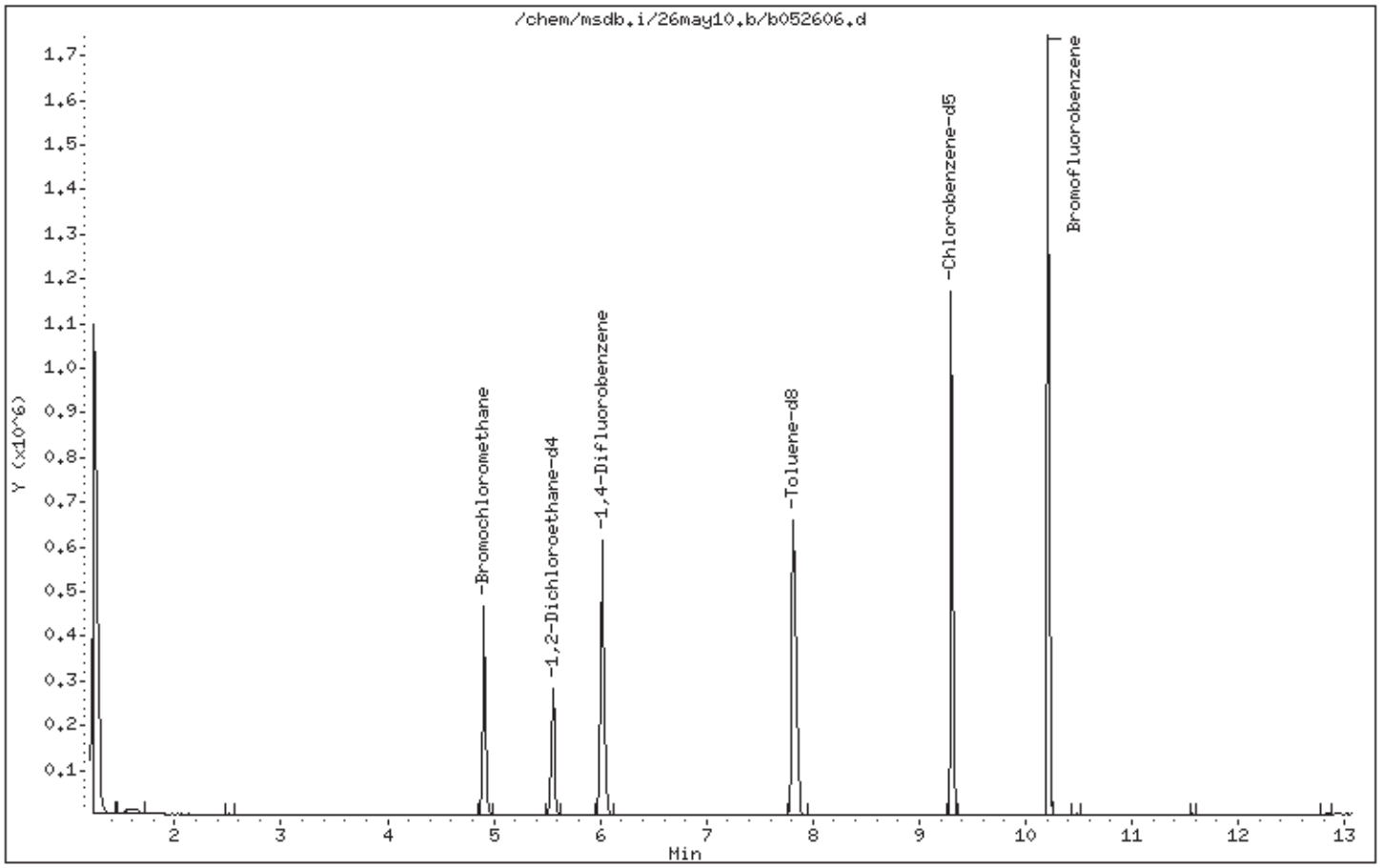
Instrument: msdb.i

Sample Info: 50mL #34261

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005522A-12B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 11:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005522A-12B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 11:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/02jun10.b/w060207.d
Lab Smp Id: LAB BLANK
Inj Date : 02-JUN-2010 11:33
Operator : LL Inst ID: msdw.i
Smp Info : 50ml,34744
Misc Info : LAB BLANK
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 73 Bromochloromethane						CAS #: 74-97-5	
5.370	5.370 (1.000)	130	134398	400.000		80.00- 120.00	100.00
5.370	5.370 (1.000)	128	103843			0.00- 30.00	77.27
5.356	5.356 (1.000)	49	184131			107.67- 167.67	137.00
* 93 1,4-Difluorobenzene						CAS #: 540-36-3	
6.490	6.490 (1.000)	114	505797	400.000		80.00- 120.00	100.00
6.490	6.490 (1.000)	88	65932			0.00- 30.00	13.04
* 126 Chlorobenzene-d5						CAS #: 3114-55-4	
8.924	8.924 (1.000)	117	484515	400.000		80.00- 120.00	100.00
8.924	8.924 (1.000)	82	233004			0.00- 30.00	48.09
$ 88 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.028	6.028 (1.122)	65	163063	361.040	361.04	80.00- 120.00	100.00
6.028	6.028 (1.122)	67	79548			0.00- 30.00	48.78
$ 108 Toluene-d8						CAS #: 2037-26-5	
7.847	7.847 (1.209)	98	477306	390.656	390.66	80.00- 120.00	100.00
7.847	7.847 (1.209)	70	49810			0.00- 30.00	10.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	332502			0.00- 30.00	69.66
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	271145	400.220	400.22	80.00- 120.00	100.00
9.652	9.652 (1.082)	95	306694			84.13- 144.13	113.11
9.652	9.652 (1.082)	176	263493			66.07- 126.07	97.18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w060207.d
Lab Smp Id: LAB BLANK
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: LAB BLANK

Calibration Date: 02-JUN-2010
Calibration Time: 10:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	140702	84421	196983	134398	-4.48
93 1,4-Difluorobenze	529979	317987	741971	505797	-4.56
126 Chlorobenzene-d5	520409	312245	728573	484515	-6.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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: 02-Jun-2010 12:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02jun10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LAB BLANK
Level: LOW Operator: LL
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: LAB BLANK

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 88 1,2-Dichloroethane	400.00	361.04	90.26	70-130
$ 108 Toluene-d8	400.00	390.66	97.66	70-130
$ 142 Bromofluorobenzene	400.00	400.22	100.06	70-130

Data File: /chem/msdw.i/02jun10.b/w060207.d

Date : 02-JUN-2010 11:33

Client ID:

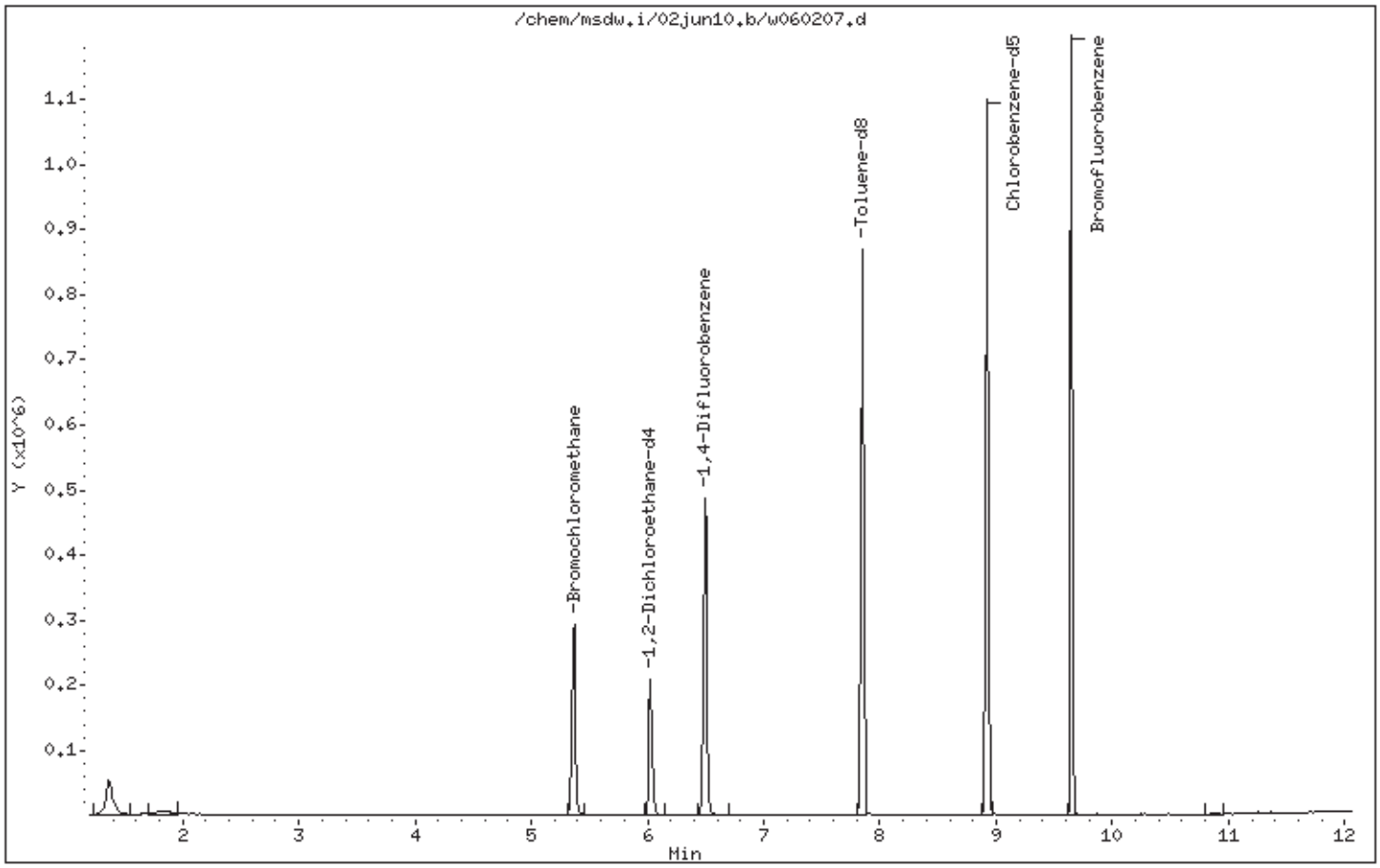
Instrument: msdw.i

Sample Info: 50ml,34744

Operator: LL

Column phase: RTx-624

Column diameter: 0.53



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1005522A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	D-1	99		98		97				0
02	D-10	100		99		96				0
03	D-10 Lab Duplicate	96		98		96				0
04	GV-12	101		99		98				0
05	Trip Blank	90		98		99				0
06	Lab Blank	99		99		99				0
07	Lab Blank	90		98		100				0
08	CCV	100		101		101				0
09	CCV	92		100		103				0
10	LCS	99		100		102				0
11	LCS	90		99		102				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

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 1005522A
Lab File ID: b052602.d
Date Analyzed: 05/26/2010
Instrument ID: msdb.i
Time Analyzed: 11:57 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	751322		9.3		789670		6.01		213867		4.91	
	UPPER LIMIT	1051851		09.63		1105538		06.34		299414		05.24	
	LOWER LIMIT	450793		08.97		473802		05.68		128320		04.58	
	CLIENT SAMPLE NO												
01	D-1	700736		9.3		745076		6.01		197696		4.91	
02	D-10	623574		9.3		669695		6.01		179880		4.89	
03	D-10 Lab Duplicate	687996		9.3		755221		6.01		205100		4.91	
04	GV-12	671766		9.3		722998		6.01		193462		4.91	
05	Lab Blank	695065		9.3		753868		6.01		199758		4.91	
06	CCV	751322		9.3		789670		6.01		213867		4.91	
07	LCS	678249		9.3		720359		6.01		197332		4.91	
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

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 1005522A
Lab File ID: w060204.d
Date Analyzed: 06/02/2010
Instrument ID: msdw.i
Time Analyzed: 10:12 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	520409		8.92		529979		6.49		140702		5.37	
	UPPER LIMIT	728573		09.25		741971		06.82		196983		05.70	
	LOWER LIMIT	312245		08.59		317987		06.16		84421		05.04	
	CLIENT SAMPLE NO												
01	Trip Blank	434855		8.92		451192		6.49		120265		5.37	
02	Lab Blank	484515		8.92		505797		6.49		134398		5.37	
03	CCV	520409		8.92		529979		6.49		140702		5.37	
04	LCS	520525		8.92		538326		6.49		142839		5.37	
05													
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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: b052614.d & b052613.d

Lab Sample ID: 02A & 02AA

Dilution: 1.68 & 1.68

Client Sample ID: &

Date Analyzed: 5/27/10 & 5/27/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0	
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0	
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0	
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0	
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0	
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0	
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0	
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0	
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0	
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0	
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0	
106-99-0	1,3-Butadiene	ND	U	ND	U	0	
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0	
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0	
123-91-1	1,4-Dioxane	ND	U	ND	U	0	
540-84-1	2,2,4-Trimethylpentane	ND	U	ND	U	0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	ND	U	ND	U	0	
591-78-6	2-Hexanone	ND	U	ND	U	0	
67-63-0	2-Propanol	ND	U	ND	U	0	
107-05-1	3-Chloropropene	ND	U	ND	U	0	
622-96-8	4-Ethyltoluene	ND	U	ND	U	0	
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0	
67-64-1	Acetone	297.54		317.34		6.4	
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0	
71-43-2	Benzene	ND	U	ND	U	0	
75-27-4	Bromodichloromethane	ND	U	ND	U	0	
75-25-2	Bromoform	ND	U	ND	U	0	
74-83-9	Bromomethane	ND	U	ND	U	0	
75-15-0	Carbon Disulfide	ND	U	ND	U	0	
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0	
108-90-7	Chlorobenzene	ND	U	ND	U	0	
75-00-3	Chloroethane	ND	U	ND	U	0	
67-66-3	Chloroform	ND	U	ND	U	0	
74-87-3	Chloromethane	36.487		35.326		3.2	Y
156-59-2	cis-1,2-Dichloroethene	ND	U	ND	U	0	
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0	
98-82-8	Cumene	ND	U	ND	U	0	
110-82-7	Cyclohexane	ND	U	ND	U	0	
124-48-1	Dibromochloromethane	ND	U	ND	U	0	
64-17-5	Ethanol	ND	U	ND	U	0	
100-41-4	Ethyl Benzene	ND	U	ND	U	0	
75-69-4	Freon 11	ND	U	ND	U	0	
76-13-1	Freon 113	ND	U	ND	U	0	
76-14-2	Freon 114	ND	U	ND	U	0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: b052614.d & b052613.d

Lab Sample ID: 02A & 02AA

Dilution: 1.68 & 1.68

Client Sample ID: &

Date Analyzed: 5/27/10 & 5/27/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	ND	U	ND	U	0	
142-82-5	Heptane	ND	U	ND	U	0	
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0	
110-54-3	Hexane	ND	U	ND	U	0	
108-38-3	m,p-Xylene	ND	U	ND	U	0	
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0	
75-09-2	Methylene Chloride	ND	U	ND	U	0	
95-47-6	o-Xylene	ND	U	ND	U	0	
103-65-1	Propylbenzene	ND	U	ND	U	0	
100-42-5	Styrene	ND	U	ND	U	0	
127-18-4	Tetrachloroethene	ND	U	ND	U	0	
109-99-9	Tetrahydrofuran	ND	U	ND	U	0	
108-88-3	Toluene	ND	U	ND	U	0	
9999-9999-038	TPH ref. to Gasoline (MW=100)	ND		ND		0	
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0	
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0	
79-01-6	Trichloroethene	ND	U	ND	U	0	
75-01-4	Vinyl Chloride	ND	U	ND	U	0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdb.i/04may10.b/b050403.d
Level 2: /chem/msdb.i/04may10.b/b050404.d
Level 3: /chem/msdb.i/13may10.b/b051313.d
Level 5: /chem/msdb.i/04may10.b/b050406.d
Level 6: /chem/msdb.i/13may10.b/b051308.d
Level 7: /chem/msdb.i/04may10.b/b050412.d
Level 8: /chem/msdb.i/13may10.b/b051311.d
Level 10: /chem/msdb.i/04may10.b/b050410.d
Level 11: /chem/msdb.i/04may10.b/b050411.d

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
M 1 1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 2 Total Xylenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
4 Freon134a	+++++	+++++	0.82143	+++++	0.97025	+++++		
	0.70717	+++++	+++++				0.83295	15.837
5 Propylene	+++++	+++++	0.90853	0.89597	0.84646	0.70174		
	0.69499	0.76181	+++++				0.80158	11.871
6 Freon 152a	+++++	+++++	0.53190	+++++	0.56438	+++++		
	0.41652	+++++	+++++				0.50426	15.409
7 Dichlorodifluoromethane/Fr12	+++++	3.37882	3.17643	3.48209	3.23198	2.67950		
	2.68031	2.89701	+++++				3.07516	10.594

Air Toxics Ltd.

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Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
8 Freon 22	+++++	+++++	0.20891	+++++	0.24224	+++++		
	0.19637	+++++	+++++				0.21584	10.983
9 Freon 114	+++++	2.87097	2.76370	2.92368	2.78226	2.45079		
	2.45121	2.70108	+++++				2.70624	6.976
10 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
11 Freon142b	+++++	+++++	1.88578	+++++	2.16327	+++++		
	1.62901	+++++	+++++				1.89269	14.117
12 Chloromethane	+++++	1.12983	1.23150	1.22335	1.14001	0.95479		
	0.95191	1.06471	+++++				1.09944	10.454
13 Butane	+++++	+++++	0.28796	0.32045	0.30337	0.23893		
	0.23934	0.28857	+++++				0.27977	12.025
14 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
15 Vinyl Chloride	+++++	1.03437	1.30759	1.34542	1.26303	1.05830		
	1.05478	1.17817	+++++				1.17738	11.085
16 1,3-Butadiene	+++++	0.92408	0.80263	0.99005	0.87453	0.78623		
	0.78844	0.88492	+++++				0.86441	8.907
17 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 8	5.000 Level 2 / 2500.000 Level 10	20.000 Level 3 / 5000.000 Level 11	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
18 Bromomethane	+++++ / 0.99055	1.00265 / 1.13702	1.02646 / +++++	1.19260	1.15188	0.97195	1.06759	8.425
19 Chloroethane	+++++ / 0.56683	0.68810 / 0.62784	0.65317 / +++++	0.70486	0.67338	0.56386	0.63972	8.821
20 Isopentane	+++++ / 1.21243	+++++ / 1.35671	1.41450 / +++++	1.54080	1.45407	1.22408	1.36710	9.507
21 Pentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
22 Vinyl Bromide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
23 Trichlorofluoromethane/Fr11	+++++ / 3.33632	3.90089 / 3.69034	3.75755 / +++++	4.24652	3.94696	3.41082	3.75563	8.404
24 1-Pentene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
25 Dichlorofluoromethane/Fr21	+++++ / 2.40970	+++++ / +++++	2.25594 / +++++	+++++	2.86361	+++++	2.50975	12.589
26 1,3-Dichloropropane	+++++ / 0.01331	+++++ / +++++	0.01136 / +++++	+++++	0.01228	+++++	0.01232	7.900
27 Dimethyl Ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
28 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
29 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
30 Ethanol	+++++	0.30714	0.33439	0.40518	0.45754	0.36252		
	0.39447	0.45782	+++++				0.38844	14.904
31 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
32 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
33 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
34 Freon 113	+++++	2.54338	2.68156	2.87305	2.72762	2.31196		
	2.27868	2.58868	+++++				2.57213	8.423
35 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
36 1,1-Dichloroethene	+++++	1.74055	1.91255	2.12692	2.01623	1.69075		
	1.67128	1.90630	+++++				1.86637	9.249
37 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
38 Acetone	+++++	+++++	0.56886	0.62866	0.58675	0.48774		
	0.49207	0.55396	+++++				0.55301	9.933
39 Carbon Disulfide	+++++	3.14817	3.21222	3.88211	3.71146	2.95159		
	2.96294	3.28460	+++++				3.30758	10.857
40 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
41 2-Propanol	+++++	+++++	1.30875	1.75750	1.74424	1.49484		
	1.58283	1.87307	+++++				1.62687	12.658
42 3-Chloropropene	+++++	+++++	0.37608	0.55285	0.53455	0.44875		
	0.48286	0.57503	+++++				0.49502	15.048
43 Cyclopentene	+++++	+++++	2.21945	+++++	2.16626	+++++		
	2.04157	+++++	+++++				2.14243	4.262
44 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
45 cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
46 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
47 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
48 Methylene Chloride	+++++	2.04205	1.60145	1.57076	1.47168	1.23805		
	1.19622	1.33033	+++++				1.49293	19.322
49 tert-Butyl-Alcohol	+++++	+++++	1.38957	1.71330	1.74955	1.92358		
	1.81849	+++++	+++++				1.71890	11.680
50 MTBE	+++++	2.75802	2.67115	3.28190	3.20746	2.71856		
	2.77622	3.26238	+++++				2.95367	9.499
51 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
52 trans-1,2-Dichloroethene	+++++	1.37293	1.54291	1.64626	1.55456	1.29171		
	1.27262	1.42279	+++++				1.44340	9.838
53 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
54 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
55 Hexane	+++++	1.88344	1.97676	2.24579	2.09077	1.76531		
	1.73370	1.95163	+++++				1.94963	9.208
56 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
57 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 8	5.000 Level 2 / 2500.000 Level 10	20.000 Level 3 / 5000.000 Level 11	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
58 Isopropyl ether	+++++ / 4.09819	+++++ / +++++	3.89062 / +++++	4.53148	4.33379	4.35967	4.24275	5.895
59 1,1-Dichloroethane	+++++ / 1.97470	2.05391 / 2.21569	2.20175 / +++++	2.51617	2.40646	1.98893	2.19395	9.474
60 Vinyl Acetate	+++++ / 0.30275	+++++ / 0.36822	0.22903 / +++++	0.32045	0.33817	0.28368	0.30705	15.647
61 Chloroprene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
62 1-Propanol	+++++ / 0.15992	+++++ / +++++	0.11848 / +++++	+++++	0.16231	+++++	0.14690	16.778
63 1-Hexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
64 Ethyl-tert-butyl Ether	+++++ / 3.52303	+++++ / +++++	2.96579 / +++++	3.66953	3.53754	3.75125	3.48943	8.817
65 Methyl Acrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
66 2,4-Dimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
67 Butanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 8	5.000 Level 2 / 2500.000 Level 10	20.000 Level 3 / 5000.000 Level 11	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
68 cis-1,2-Dichloroethene	+++++ / 1.44096	1.72750 / 1.62792	1.54881 / +++++	1.79621	1.70885	1.45844	1.61553	8.519
69 2,2-Dichloropropane	+++++ / 1.72321	+++++ / +++++	1.45716 / +++++	+++++	1.68298	+++++	1.62112	8.846
70 2-Butanone	+++++ / 0.57637	0.52148 / 0.65915	0.60775 / +++++	0.71590	0.68112	0.58396	0.62082	10.909
71 2-Butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
72 Ethyl Acetate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
73 3-Methyl-1-Hexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
74 Tetrahydrofuran	+++++ / 1.23976	1.24160 / 1.43128	1.25969 / +++++	1.49250	1.44783	1.24084	1.33621	8.594
76 Chloroform	+++++ / 2.40830	2.63054 / 2.69352	2.76176 / +++++	2.99210	2.84901	2.45658	2.68454	7.737
77 Cyclohexane	+++++ / 1.70791	2.00826 / 1.91482	1.89182 / +++++	2.13088	2.04921	1.74303	1.92085	8.123
78 1,1,1-Trichloroethane	+++++ / 2.62899	2.51640 / 3.02642	2.46611 / +++++	3.08738	3.01262	2.65190	2.76998	9.504

Air Toxics Ltd.

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Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 8	5.000 Level 2 / 2500.000 Level 10	20.000 Level 3 / 5000.000 Level 11	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
79 Carbon Tetrachloride	+++++ / 2.95907	2.68272 / 3.40161	2.76673 / +++++	3.44187	3.34020	2.96499	3.07960	10.147
80 1,1-Dichloropropene	+++++ / 0.75614	+++++ / +++++	0.75767 / +++++	+++++	0.80347	+++++	0.77243	3.482
81 2,3-Dimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
82 2,2,4-Trimethylpentane	+++++ / 5.45176	6.35651 / 6.16438	6.14245 / +++++	6.94999	6.55638	5.51903	6.16293	8.719
83 Benzene	1.01602 / 0.95670	1.06522 / 1.09720	1.06966 / +++++	1.19158	1.11891	0.97331	1.06108	7.335
84 1-Methoxy-2-Propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
85 2,3,4-Trimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
87 Isobutanol	+++++ / 0.22890	+++++ / +++++	0.14742 / +++++	+++++	0.21877	+++++	0.19836	22.385
88 tert-amyl-Methyl Ether	+++++ / 3.08593	+++++ / +++++	2.64134 / +++++	3.16107	3.10323	3.27828	3.05397	7.945
89 1,2-Dichloroethane	+++++ / 0.40412	0.46294 / 0.46730	0.45622 / +++++	0.50932	0.46986	0.40716	0.45385	8.173

Air Toxics Ltd.

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Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 11:53 dbailey
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD	
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11						
90 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
91 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
92 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
93 Heptane	+++++	0.36979	0.35273	0.42679	0.39836	0.35400			
	0.34599	0.39877	+++++				0.37806	8.033	
95 Trichloroethene	+++++	0.47445	0.49667	0.55198	0.52752	0.46140			
	0.45930	0.53156	0.52400				0.50336	7.025	
96 1-Butanol	+++++	+++++	0.09296	+++++	0.19962	+++++			
	0.21240	+++++	+++++				0.16833	38.961	<-
97 Methyl Cyclohexane	+++++	0.65808	0.66290	0.75850	0.71243	0.63426			
	0.62002	0.70766	+++++				0.67912	7.223	
98 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
99 1,2-Dichloropropane	+++++	0.36049	0.37349	0.40335	0.37892	0.34441			
	0.33727	0.38889	+++++				0.36955	6.420	
100 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	

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Curve Type : Average

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101 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
102 1,4-Dioxane	+++++	+++++	0.23075	0.28139	0.27245	0.23866		
	0.23661	0.27621	+++++				0.25601	8.972
103 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
104 Bromodichloromethane	+++++	0.59535	0.60290	0.79306	0.77048	0.70474		
	0.70796	0.83067	+++++				0.71502	12.714
105 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
106 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
107 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
108 cis-1,3-Dichloropropene	+++++	0.37619	0.40968	0.53030	0.54784	0.50988		
	0.51480	0.61667	+++++				0.50077	16.430
109 4-Methyl-2-pentanone	+++++	0.08652	0.10792	0.15099	0.15239	0.13876		
	0.13518	0.15958	+++++				0.13305	19.965
111 Toluene	+++++	1.41824	1.44216	1.57425	1.48264	1.28292		
	1.24828	1.42613	+++++				1.41066	7.974

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112 alpha-Pinene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
113 Octane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
114 trans-1,3-Dichloropropene	+++++ / 0.56025	0.39705 / 0.67584	0.38944 / +++++	0.57625	0.58404	0.54133	0.53203	19.530
115 1,1,2-Trichloroethane	+++++ / 0.46864	0.49976 / 0.57667	0.50021 / +++++	0.55410	0.53548	0.48094	0.51654	7.701
116 Tetrachloroethene	+++++ / 0.75650	0.82624 / 0.92300	0.81315 / 0.96399	0.91080	0.85293	0.76035	0.85087	8.964
117 beta-Pinene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
118 Dicyclopentadiene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
119 Alphamethylstyrene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
120 2-Hexanone	+++++ / 0.41496	+++++ / 0.48436	0.28659 / +++++	0.44228	0.43969	0.41212	0.41333	16.282
121 Dibromochloromethane	+++++ / 0.95473	0.64626 / 1.13953	0.74031 / +++++	1.00434	0.99359	0.94563	0.91777	18.328

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Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	___ RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
122 Butyl Acetate	+++++	+++++	0.25730	+++++	0.39057	+++++		
	0.38070	+++++	+++++				0.34286	21.659
123 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
124 1,2-Dibromoethane	+++++	0.71931	0.78611	0.92674	0.88543	0.79461		
	0.77354	0.88423	+++++				0.82428	9.100
126 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
127 Chlorobenzene	+++++	1.39681	1.34142	1.45841	1.35775	1.21123		
	1.17534	1.30813	+++++				1.32130	7.557
128 Ethyl Benzene	+++++	0.66965	0.64201	0.72277	0.69232	0.62188		
	0.60567	0.70099	+++++				0.66504	6.528
129 1,1,1,2-Tetrachloroethane	+++++	+++++	0.54789	+++++	0.72122	+++++		
	0.65780	+++++	+++++				0.64230	13.654
130 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
131 m,p-Xylene	+++++	0.82161	0.81066	0.91398	0.85476	0.78319		
	0.75632	0.87860	+++++				0.83130	6.604
132 o-Xylene	+++++	0.75038	0.81031	0.87633	0.80996	0.75498		
	0.72056	0.83813	+++++				0.79438	6.907

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Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD	
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11						
133 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
134 Styrene	+++++	0.94630	0.98071	1.28580	1.25826	1.13334			
	1.11413	1.28892	+++++				1.14392	12.410	
135 2-Heptanone	+++++	+++++	0.33433	+++++	0.72405	+++++			
	0.65071	+++++	+++++				0.56970	36.354	<-
136 Bromoform	+++++	0.55405	0.61093	0.89858	0.94994	0.96213			
	0.95567	1.17280	+++++				0.87201	24.845	
137 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
138 Cumene	+++++	2.31146	2.23025	2.56079	2.40811	2.25780			
	2.16263	+++++	+++++				2.32184	6.166	
140 Cyclohexanone	+++++	+++++	0.28332	+++++	0.51722	+++++			
	0.45712	+++++	+++++				0.41922	28.974	
141 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
142 1,1,2,2-Tetrachloroethane	+++++	1.09776	1.04554	1.18584	1.11033	1.08663			
	1.04293	1.13724	+++++				1.10090	4.581	
143 Propylbenzene	+++++	2.73974	2.73784	2.94201	2.74908	2.61097			
	2.48373	+++++	+++++				2.71056	5.668	

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	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
144 Bromobenzene	+++++	+++++	0.84374	+++++	0.97694	+++++		
	0.80286	+++++	+++++				0.87451	10.409
145 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
146 1,2,3-Trichloropropane	+++++	+++++	0.38665	+++++	0.45574	+++++		
	0.37248	+++++	+++++				0.40495	11.001
147 4-Ethyltoluene	+++++	2.42913	2.39594	2.65592	2.49877	2.39596		
	2.26682	+++++	+++++				2.44042	5.313
148 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
149 1,3,5-Trimethylbenzene	+++++	2.04944	2.05769	2.20620	2.06975	1.93415		
	1.77940	+++++	+++++				2.01610	7.174
150 2-Chlorotoluene	+++++	+++++	0.66940	+++++	0.80422	+++++		
	0.65199	+++++	+++++				0.70853	11.759
151 4-Chlorotoluene	+++++	+++++	0.67983	+++++	0.79680	+++++		
	0.64039	+++++	+++++				0.70567	11.527
152 1,2,4-Trimethylbenzene	+++++	1.88839	1.90567	2.00289	1.85660	1.80665		
	1.69646	+++++	+++++				1.85944	5.532
153 tert-Butylbenzene	+++++	+++++	2.33105	+++++	2.55073	+++++		
	2.06304	+++++	+++++				2.31494	10.551

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154 Pentachloroethane	+++++ / 0.65543	+++++ / +++++	0.46369 / +++++	+++++	0.73894	+++++	0.61935	22.786
155 sec-Butylbenzene	+++++ / 2.93288	+++++ / +++++	3.14535 / +++++	+++++	3.86207	+++++	3.31343	14.694
156 1,3-Dichlorobenzene	+++++ / 1.35324	1.67561 / 1.40939	1.54751 / +++++	1.52864	1.43981	1.45968	1.48770	7.148
157 Bis(2-chloroethyl) ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
158 p-Cymene	+++++ / 2.66203	+++++ / +++++	2.69974 / +++++	+++++	3.35761	+++++	2.90646	13.458
159 1,4-Dichlorobenzene	+++++ / 1.36315	1.67776 / 1.39887	1.53182 / +++++	1.54800	1.42870	1.47511	1.48906	7.188
160 1,2,3-Trimethylbenzene	+++++ / 1.00037	+++++ / +++++	1.00908 / +++++	+++++	1.24492	+++++	1.08479	12.790
161 alpha-Chlorotoluene	+++++ / 1.18760	0.57892 / 1.32484	0.64224 / +++++	1.02810	1.14295	1.16042	1.00930	28.383
162 Butylbenzene	+++++ / 0.70296	+++++ / +++++	0.70100 / +++++	+++++	0.86945	+++++	0.75780	12.760
163 1,2-Dichlorobenzene	+++++ / 1.29421	1.56265 / 1.25847	1.43603 / +++++	1.38629	1.29186	1.38462	1.37345	7.646

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	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
164 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
165 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
166 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
167 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.53282	+++++	0.88590	+++++		
	0.80728	+++++	+++++				0.74200	24.983
168 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
169 1,2,4-Trichlorobenzene	+++++	+++++	1.03599	0.57318	0.68091	0.98911		
	0.96120	0.53579	+++++				0.79603	28.246
170 Hexachlorobutadiene	+++++	+++++	0.93451	0.53110	0.59258	0.95013		
	0.81922	0.60566	+++++				0.73887	25.079
171 Naphthalene	+++++	+++++	1.20255	0.64743	0.86547	0.99993		
	0.76618	+++++	+++++				0.89631	23.951
172 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
173 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
174 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
$ 86 1,2-Dichloroethane-d4	1.06072	1.07180	1.05454	1.04026	1.04173	1.02200		
	1.01113	1.00715	+++++				1.03867	2.266
$ 110 Toluene-d8	0.95506	0.95536	0.94868	0.96885	0.96157	0.97239		
	0.96704	0.97578	+++++				0.96309	0.986
$ 139 Bromofluorobenzene	0.59953	0.59346	0.60126	0.62266	0.61861	0.62330		
	0.62978	0.64503	+++++				0.61670	2.828

Calibration History

Method : /chem/msdb.i/13may10.b/b1050504c.m
Start Cal Date: 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 3.00000		
04-MAY-2010 10:38	Benzene	/chem/msdb.i/04may10.b/b050403.d
Cal Level: 2 , Cal Amount: 5.00000		
04-MAY-2010 10:59	Level2	/chem/msdb.i/04may10.b/b050404.d
Cal Level: 3 , Cal Amount: 20.00000		
13-MAY-2010 11:52	FreonICAL	/chem/msdb.i/13may10.b/b051313.d
06-MAY-2010 03:13	Sp22	/chem/msdb.i/05may10.b/b050520.d
04-MAY-2010 11:18	AT09	/chem/msdb.i/04may10.b/b050405.d
Cal Level: 5 , Cal Amount: 100.00000		
04-MAY-2010 11:38	AT09	/chem/msdb.i/04may10.b/b050406.d
Cal Level: 6 , Cal Amount: 200.00000		
13-MAY-2010 08:42	FreonICAL	/chem/msdb.i/13may10.b/b051308.d
06-MAY-2010 00:07	Sp22	/chem/msdb.i/05may10.b/b050516.d
04-MAY-2010 11:58	AT09	/chem/msdb.i/04may10.b/b050407.d
Cal Level: 7 , Cal Amount: 500.00000		
04-MAY-2010 14:42	OxyNcrv	/chem/msdb.i/04may10.b/b050412.d
04-MAY-2010 12:19	AT09high	/chem/msdb.i/04may10.b/b050408.d
Cal Level: 8 , Cal Amount: 1000.00000		
13-MAY-2010 10:44	FreonICAL	/chem/msdb.i/13may10.b/b051311.d
06-MAY-2010 00:53	Sp22	/chem/msdb.i/05may10.b/b050517.d
04-MAY-2010 15:30	OxyNcrv	/chem/msdb.i/04may10.b/b050413.d
04-MAY-2010 13:13	AT09high	/chem/msdb.i/04may10.b/b050409.d

Cal Level: 10, Cal Amount: 2500.00000		
04-MAY-2010 14:02	AT09high	/chem/msdb.i/04may10.b/b050410.d

Cal Level: 11, Cal Amount: 5000.00000		
04-MAY-2010 14:22	PCE	/chem/msdb.i/04may10.b/b050411.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 200.00		
13-MAY-2010 05:01	AT09	/chem/msdb.i/13may10.b/b051302.d

Ccal Level: 6 , Ccal Amount: 200.00		
14-MAY-2010 06:01	AT09	/chem/msdb.i/14may10.b/b051402.d

Ccal Level: 6 , Ccal Amount: 200.00		
13-MAY-2010 08:42	FreonCCV	/chem/msdb.i/13may10.b/b051308a.d

Ccal Level: 6 , Ccal Amount: 200.00		
13-MAY-2010 08:42	FreonICAL	/chem/msdb.i/13may10.b/b051308.d

Ccal Level: 6 , Ccal Amount: 200.00		
04-MAY-2010 11:58	AT09	/chem/msdb.i/04may10.b/b050407.d

Ccal Level: 6 , Ccal Amount: 200.00		
13-MAY-2010 06:18	Sp22CCV	/chem/msdb.i/13may10.b/b051305.d

MJ 5/14/10

JP 5/14/10

Report Date : 14-May-2010 09:36

OK FOR AFCEE

MDL: 05/04/10

Air Toxics Ltd. ICAL - 0

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAY-2010 10:38
End Cal Date : 13-MAY-2010 11:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdb.i/13may10.b/b1050504c.m
Cal Date : 14-May-2010 08:43 jparker
Curve Type : Average

- TOP OF CURVE = 5000ppbv TCE & PCE
- TOP OF CURVE = 1000ppbv SPECIAL FREONS, SPECIAL AERO, NAPHTHALENE, TBA, ETBE, TAME, ISOPROPYL ETHER, CUMENE, PROPYL BENZENE, 4-ETHYL TOLUENE, 1,3,5-TMB, 1,2,4-TMB.
- TOP OF CURVE 2500ppbv = ALL OTHER COMPOUNDS

Calibration File Names:
Level 1: /chem/msdb.i/04may10.b/b050403.d
Level 2: /chem/msdb.i/04may10.b/b050404.d
Level 3: /chem/msdb.i/13may10.b/b051313.d
Level 5: /chem/msdb.i/04may10.b/b050406.d
Level 6: /chem/msdb.i/13may10.b/b051308.d
Level 7: /chem/msdb.i/04may10.b/b050412.d
Level 8: /chem/msdb.i/13may10.b/b051311.d
Level 10: /chem/msdb.i/04may10.b/b050410.d
Level 11: /chem/msdb.i/04may10.b/b050411.d

50mL Load

LCS = B050416

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	100.000 Level 5	200.000 Level 6	500.000 Level 7	RRF	% RSD
	1000.000 Level 8	2500.000 Level 10	5000.000 Level 11					
M 1 1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
M 2 Total Xylenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
3 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
4 Freon134a	+++++	+++++	0.82143	+++++	0.97025	+++++		
	0.70717	+++++	+++++				0.83295	15.837
5 Propylene	+++++	+++++	0.90853	0.89597	0.84646	0.70174		
	0.69499	0.76181	+++++				0.80158	11.871
6 Freon 152a	+++++	+++++	0.53190	+++++	0.56438	+++++	✓	✓
	0.41652	+++++	+++++				0.50426	15.409
7 Dichlorodifluoromethane/Fr12	+++++	3.37882	3.17643	3.48209	3.23198	2.67950		
	2.68031	2.89701	+++++				3.07516	10.594

Initial Calibration Narrative

A nine-point calibration of TO-15 compounds was analyzed on 05/04/2010 on MSD-B. The resulting response factor is updated in calibration B1050504a.m

Benzene used 3.0 ppbv as the lowest calibration concentration.

All compounds are calibrated to 2500ppbv except the following:

Special Freons, Aer Specials, Naphthalene, tert-Butyl Alcohol, Isopropyl Ether, Ethyl tert-Butyl Ether, tert-Amyl Methyl Ether, Cumene, Propylbenzene, 4-Ethyltoluene, 1,3,5-Trimethylbenzene and 1,2,4-Trimethylbenzene are calibrated to 1000ppbv.

Trichloroethene and Tetrachloroethene are calibrated to 5000ppbv.

On 05/07/10, three point calibrations of Special Freons and Aer Specials were included in the calibration curve. The resulting response factors are updated in calibration B1050504b.m. As noted on the accompanying analytical run log, Level 3 of Special Freons and Level 3 of Aer Specials were re-analyzed due to poor chromatography of early peaks on the initial runs.

On 05/13/10, a three point calibration of Special Freons was included in the calibration curve (recalibration). The resulting response factors are updated in calibration B1050504c.m. As noted on the accompanying analytical run log, Level 3 of Special Freons was reanalyzed due to loading error resulting in double IS areas for the first load.

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MSD-B

Logbook #: 1971

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.72
75	30.0 – 60.0% of mass 95	45.53
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.71
173	Less than 2.0% of mass 174	(0.50)[1]
174	50.0 – 100% of mass 95	87.24
175	5.0 – 9.0% of mass 174	(6.90)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.68)[1]
177	5.0 – 9.0% of mass 176	(6.40)[2]

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

BFB Injection Date: 5/4/10
BFB Injection Time: 1002
BFB File ID: B050401
Tekmar Purge Flow: 20.5 ml/min
Vacuum: 8.59e-6

IS/S Std.#: 1911-336	Exp. Date: 7/9/10
BCM	298298
1,4-DFB	1131229
CB-d5	1067777

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

Verify 176/174 m/z Ratio: 1059328 / 1084416 x 100 = 97.686%

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1087755\ )}{(\ 1131229\ )} \times \frac{(\ 400\ )}{(\ 0.96309\ )} = 399.37$

File ID:	B050407
Compound:	Toluene-d8
Initials:	mw

Reported Result 399.37

Method: B1050504a.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	B050401	BFB Tune Check	1476-1513	50 ng	2.0 ml	1.0	DB	5-4-10	1002	DB	
2	X	02	System Blank	34621	-	50 ml				1017		
3	✓	03	ICAL Level 1	1936-139	30 50 ppbv	0.75 ml				1038		
4	✓	04	2		DB stock 5.0 ppbv	1.25 ml				1059		
5	✓	05	3		20 ppbv	5.0 ml				1118		
6	✓	06	~~4~~ 5 DB		100 ppbv	25 ml				1138		
7	✓	07	6 stock		200 ppbv	50 ml				1158		1ccv
8	✓	08	7	1968-5	500 ppbv	5.0 ml				1219		
9	✓	09	8		1000 ppbv	10 ml				1313		

Signature

5/5/10
Date

@ Air Toxics Ltd. DB 5/4/10 **MSD-B** Logbook #: 1971

10	✓	BO 5041O	ICAL Level 10	1968-5	2500 ppbv	25 ml	1.0	OB	5-4-10	1402	DB		
11	✓	11	11	↓	5000 ppbv	50 ml				1422	ww		
12	✓	12	7	1936-110	500 ppbv	25 ml				1442	ww		
13	✓	13	8	↓	1000 ppbv	50 ml				1530	ww		
14	✓	14	System Blank	34621	– 50 ww 5/4/10	~~200 ml~~		↓		1601	ww		
15	✓	15	↓	↓	↓	↓		ww		1624	ww		
16	✓	16	ICV (200 ppbv) ww 5/4/10	1936-141	200 ppbv	50 mL				1650	ww		LCS
17	✓	17	~~System~~ Lab Blank	34261	Humid	50 mL				1948	ww		
18	X	18	MDL #1	1830-36	5 ppbv	12.5 mL				2025	ww		
19	✓	19	Lab Blank	34261	Humid	50 mL				2121	ww		
20	✓	20	MDL #1	1830-36	5 ppbv	12.5 mL				2159	ww		
21	✓	21	#2							2320	ww		
22	✓	22	#3							2344	ww		
23	✓	23	#4						5-5-10	0025	ww		
24	✓	24	#5							0130	ww		
25	✓	25	#6							0155	ww		
26	✓	26	#7							0247	ww		
27		27											
28													
29													
30													
31													
32													
33											ww 5/5/10		

Comments: 25 ml/min → 24.7 ml/min

MST Flow Meter: 200-7744 exp. 9/10

ww
Signature

5/5/10
Date

@ Air Toxics Ltd.

MSD-B

Logbook #: 1971

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.71
75	30.0 – 60.0% of mass 95	45.56
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	7.15
173	Less than 2.0% of mass 174	0.50 (0.59)[1]
174	50.0 – 100% of mass 95	85.31
175	5.0 – 9.0% of mass 174	5.91 (6.93)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	82.16 (96.32)[1]
177	5.0 – 9.0% of mass 176	5.72 (6.97)[2]

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

BFB Injection Date: 5/5/10
BFB Injection Time: 1718
BFB File ID: B050504
Tekmar Purge Flow: ——— 5/5/10
Vacuum: 8.61e-6

IS/S Std.#:	1911-336	Exp. Date: 07/07/10
BCM	325405	
1,4-DFB	1215108	
CB-d5	1130338	

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

Verify 176/174 m/z Ratio: (509696 / 529194) x 100% ✓

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 171377\ )}{(\ 1215108\ )} \times \frac{(\ 400\ )}{(\ 0.96309\ )} = 400.38$

Reported Result 400.38

File ID:	B050506
Compound:	Toluene-d8
Initials:	ww

Method: B105050Ka.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	B050504	BFB Tune Check	1476-1239	50 psig	2.0mL	1.00	VS	5/5/10	1718	ww	
2	+	05	CCV (200ppbv)	1936-139	200 ppbv ~~50~~ 200 ppbv	50ML				1741	ww	200
3	✓	06	LCS (200ppbv)		200 ppbv	50 mL				1805	ww	ΦOK
4	✓	07	LCS (200ppbv)	1936-140						1826	ww	1 OK 1,2,4-TCB
5	✓	08	System Blank ~~5/5/10~~		@ Humid					1850	ww	*Can # 34261
6	✓	09	MDL Verification	1936-36	20 ppbv - 3 ppbv	7.5 mL	1.00			2016	ww	
7	X	10	ICAL Level 3	1911-190	20 ppbv	5 mL	1.00			2087	ww	Freon Std
8	✓	11	6	↓	200 ppbv	50 mL	1.00			2120	ww	
9	✓	12	8.7	1911-169	1000 ppbv	10 mL	1.00			2150	ww	↓

Signature — 5/5/10 Date

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MSD-B

Logbook #: 1971

10	✓	B050513	14	System blank	34261	Humid	50mL	1.00	KJ	5/5/10	2221	KJ/ ~~~	
11	X		14	ICAL level 3	1911-242	20ppbv	1.0mL	1.00	KJ	↓	2253	~~~	Aer Std
12	X		15	↓ 6	↓	200ppbv	10mL	↓	~~~	↓	2329	~~~	wrong Manifold
13	✓		16	6		200ppbv	10mL			5/6/10 5/6/10	0007	~~~	Aer Std
14	✓		17	↓ 8 ~~7~~ 5/6/10	↓	1000ppbv	50mL			5/6/10	0053	~~~	↓
15	✓		18	System Blank 5/6/10	34261	Humid	50mL			↓	0123	~~~	
16	✓		19	ICAL Level 3	1911-190	20ppbv	5.0mL				0214	~~~	Ener Std
17	✓	↓	20	ICAL Level 3	1911-242	20ppbv	60mL	↓	↓	↓	0313	~~~	Aer Std
18													
19													
20													
21													
22													
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28													
29													
30													
31													
32													
33													

5/6/10

Comments:

Signature

5/7/10
Date

@ Air Toxics Ltd.

MSD-B

Logbook #: 1971

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.49
75	30.0 – 60.0% of mass 95	45.70
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.49
173	Less than 2.0% of mass 174	(0.53)[1]
174	50.0 – 100% of mass 95	87.37
175	5.0 – 9.0% of mass 174	(7.18)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.43)[1]
177	5.0 – 9.0% of mass 176	(6.62)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 5/13/10

BFB Injection Time: 0443

BFB File ID: B051301

Tekmar Purge Flow: ms 5/13/10

Vacuum:

IS/S Std.#:	1911-336 Exp. Date: 7/9/10
BCM	280463
1,4-DFB	1028703
CB-d5	958137

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

Verify 176/174 m/z Ratio: 110973 / 113008 x 100 = 97.4306

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 283080\ )}{(\ 280463\ )} \times \frac{(\ 400\ )}{(\ 1.03867\ )} =$ 388.70

mr 5/13/10

Reported Result 388.70

File ID:	B051302
Compound:	1,2-DCA-d4
Initials:	DM

Method: ~~B1050504b.m~~ B1050504c.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	B051301	BFB Tune Check	1476-1513	50psig	2.0 mL	1.00	DM	5/13/10	0443	DM	
2	✓	02	CCV-1 (200ppbv)	1936-176	~~200ppbv~~ ~~20 mL~~	20 mL				0501	DM	200ppbv
3	✓	03	LCS-1 (↓)	1936-143	↓	50mL				0519	DM	
4	X ✓	04	Freon CCV	1968-19	200ppbv	↓				0549	DM	
5	✓	05	Aer - CCV	1911-242	↓	10mL				0618	DM	
6	✓	06	System Blank	34261	Humid	50mL		↓		0641	MS 5/13/10	
7		07	CCV TPHg (100ppmV)	1830-5	4000ppbv	2mL		MT		0741		
8	~~X~~ ✓	08	CCV AERO + FREON (200ppbv)	1936-173	200ppbv	50mL		↓		0842	CR	USE AS ICAL L6 FREON ONLY
9	X	09	System Blank	34261	(Humid)	50mL	↓	↓	↓	NA	—	LOAD ERROR

MS 5/13/10

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MSD-B

Logbook #: 1971

10	X	BOS1310	ICAL LEVEL #3	1936-173	20 ppbv	5.0mL	1.00	MJ	5/13/10	1010	—	FREONS ONLY + BA LDRO
11	✓	11	ICAL LEVEL B	1966-18	1000ppbv	10mL	↓	↓	↓	1044	CR	
12	✓	12	System Blank	34261	Humid	50mL	↓	↓	↓	1122	CR	
13	✓	13	ICAL LEVEL 3	1936-173	20ppbv	5.0mL	↓	↓	↓	1152	CR	
14												
15												
16												
17												
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31												
32												
33												

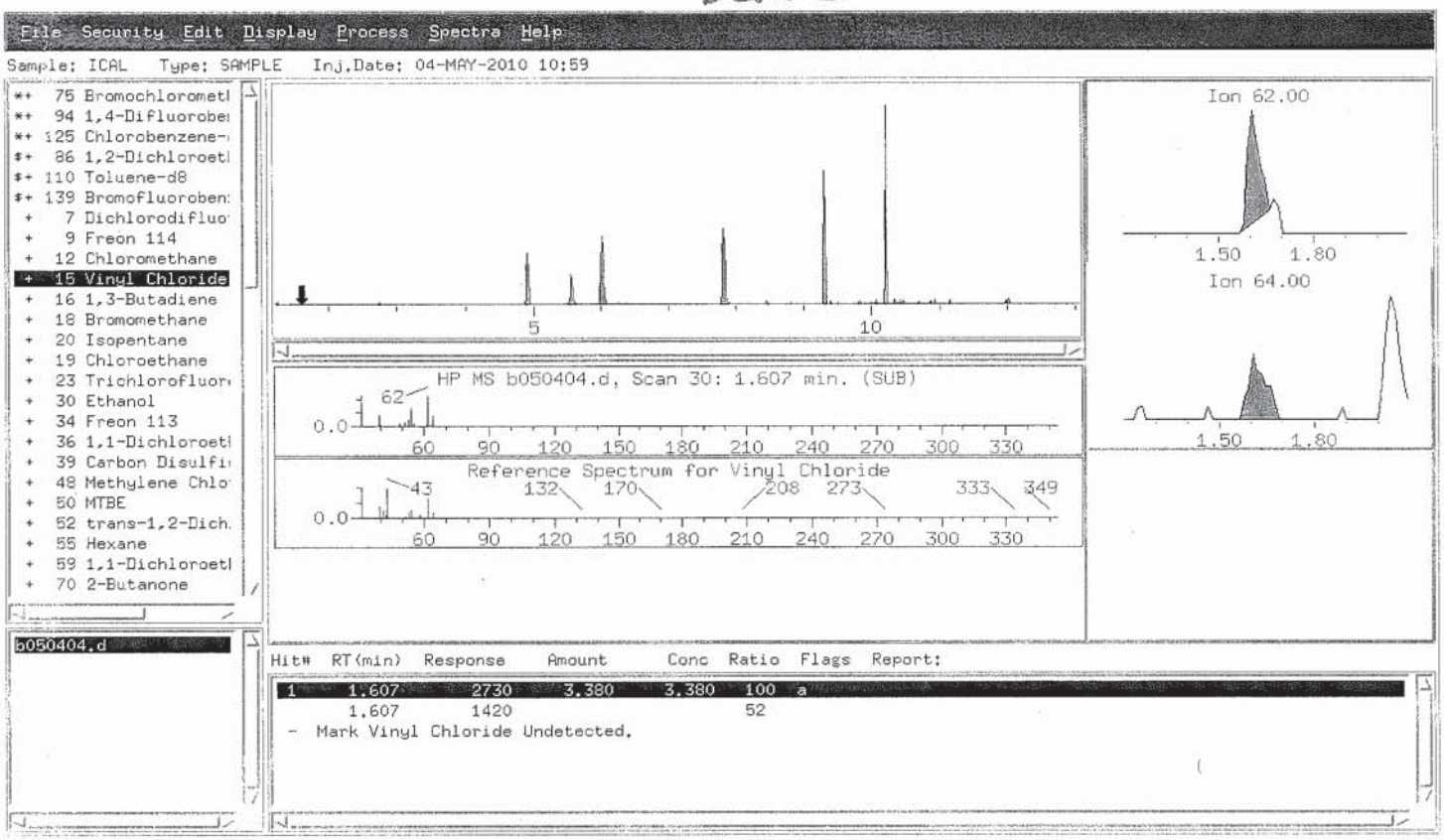
0101 of 0524

Comments:

Signature

Date

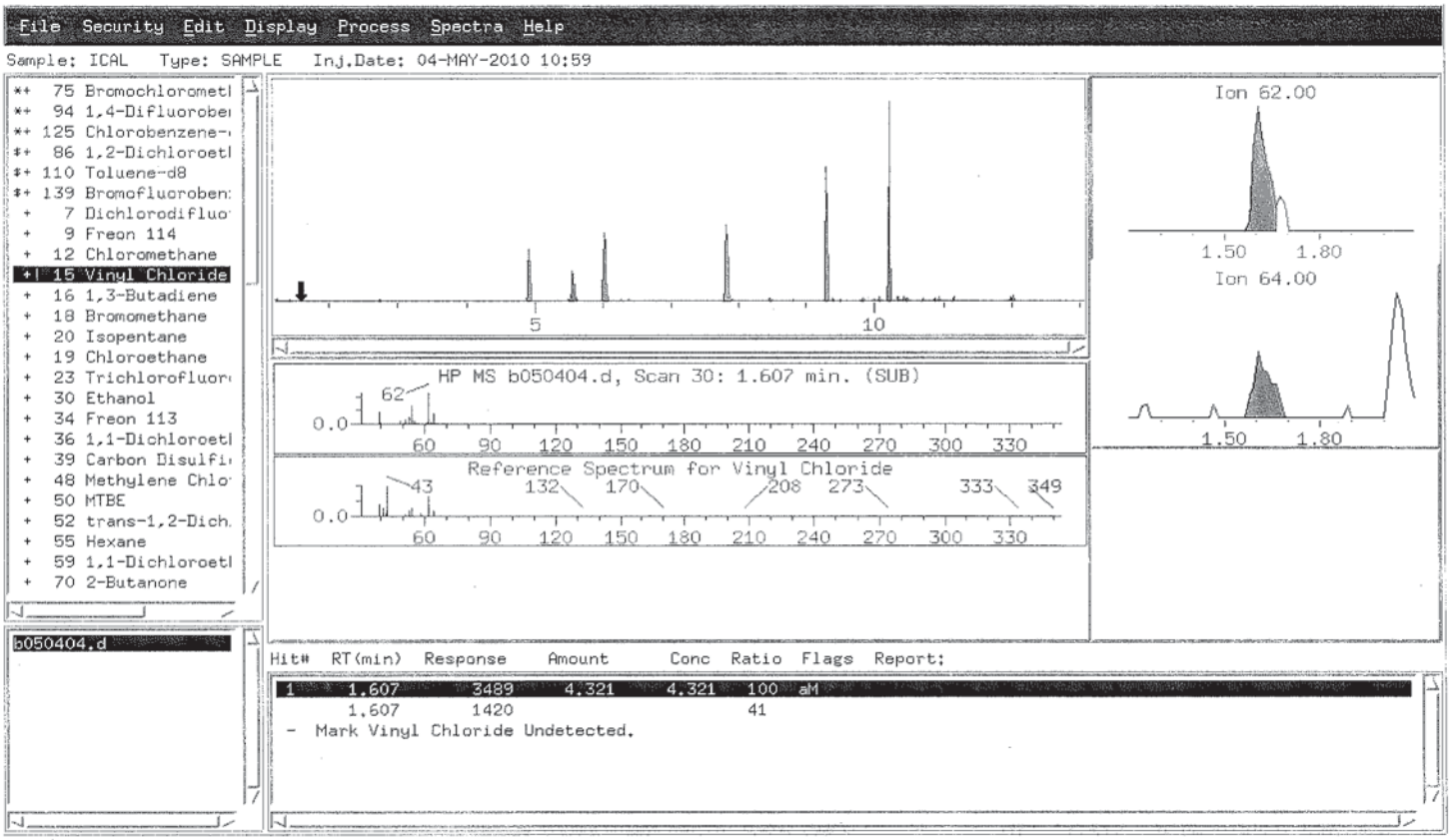
Before


File Security Edit Display Process Spectra Help
Sample: ICAL Type: SAMPLE Inj.Date: 04-MAY-2010 10:59
*+ 75 Bromochlorometl
*+ 94 1,4-Difluorobe
*+ 125 Chlorobenzene-
$+ 86 1,2-Dichloroetl
$+ 110 Toluene-d8
$+ 139 Bromofluoroben
+ 7 Dichlorodifluo
+ 9 Freon 114
+ 12 Chloromethane
+ 15 Vinyl Chloride
+ 16 1,3-Butadiene
+ 18 Bromomethane
+ 20 Isopentane
+ 19 Chloroethane
+ 23 Trichlorofluor
+ 30 Ethanol
+ 34 Freon 113
+ 36 1,1-Dichloroetl
+ 39 Carbon Disulfi
+ 48 Methylene Chlo
+ 50 MTBE
+ 52 trans-1,2-Dich
+ 55 Hexane
+ 59 1,1-Dichloroetl
+ 70 2-Butanone
5
10
HP MS b050404.d, Scan 30: 1.607 min. (SUB)
62
0.0
60 90 120 150 180 210 240 270 300 330
Reference Spectrum for Vinyl Chloride
43 132 170 208 273 333 349
0.0
60 90 120 150 180 210 240 270 300 330
Ion 62.00
1.50 1.80
Ion 64.00
1.50 1.80
b050404.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 1.607 2730 3.380 3.380 100 a
1.607 1420 52
- Mark Vinyl Chloride Undetected.

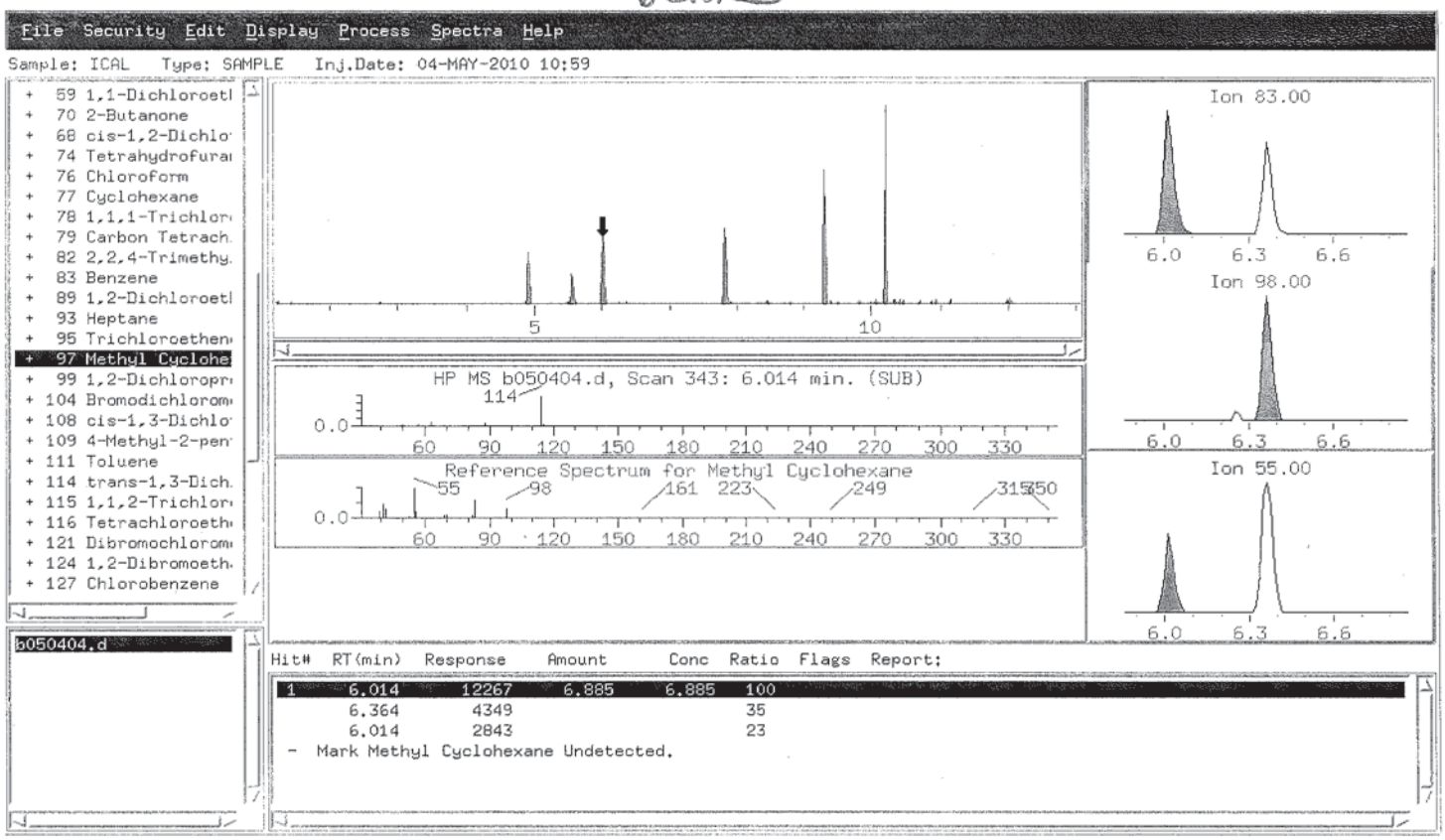
Date / Initial	05/07/10
Poor Integration	X
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peak	

5/5/10

After



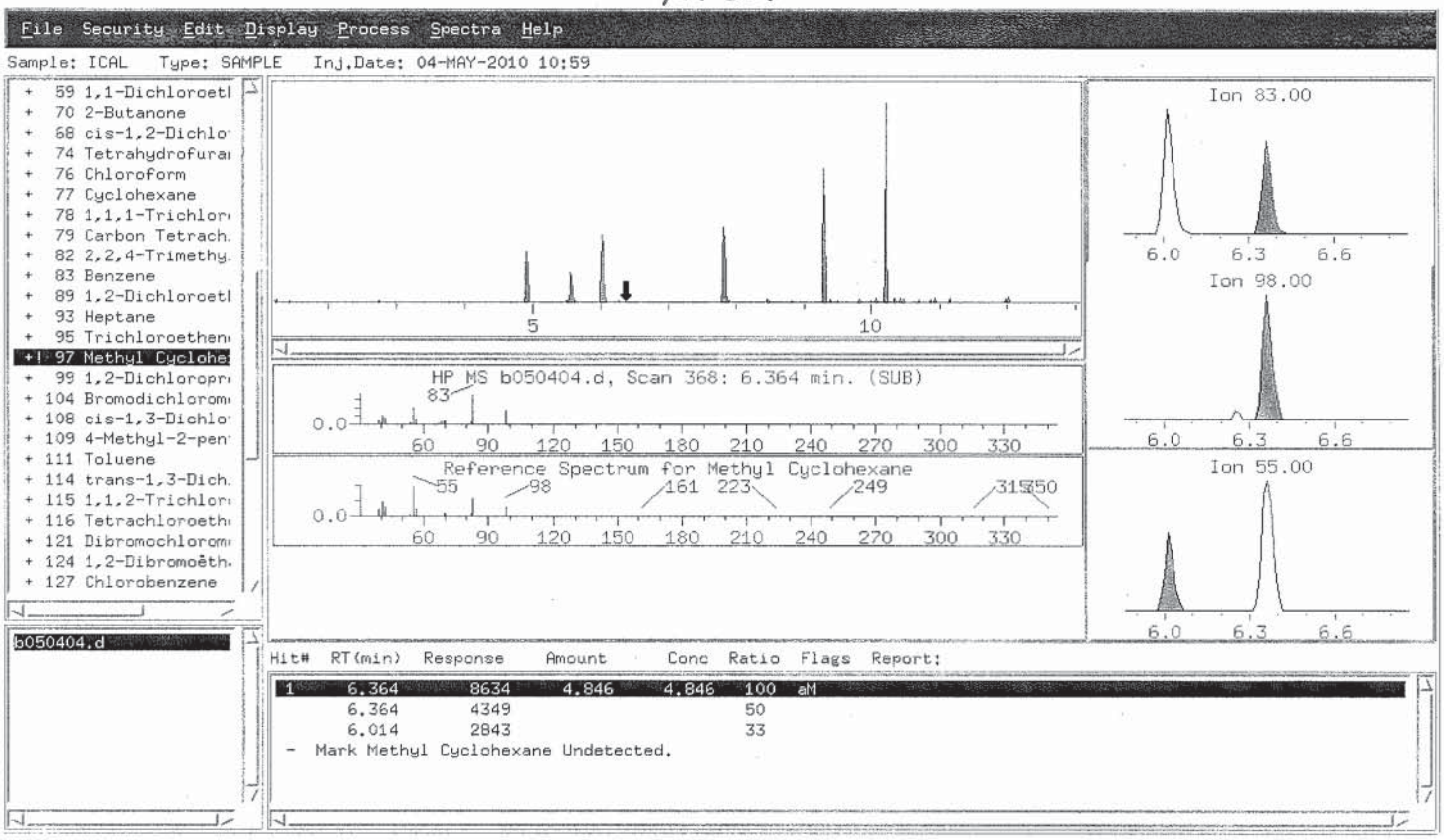
Before

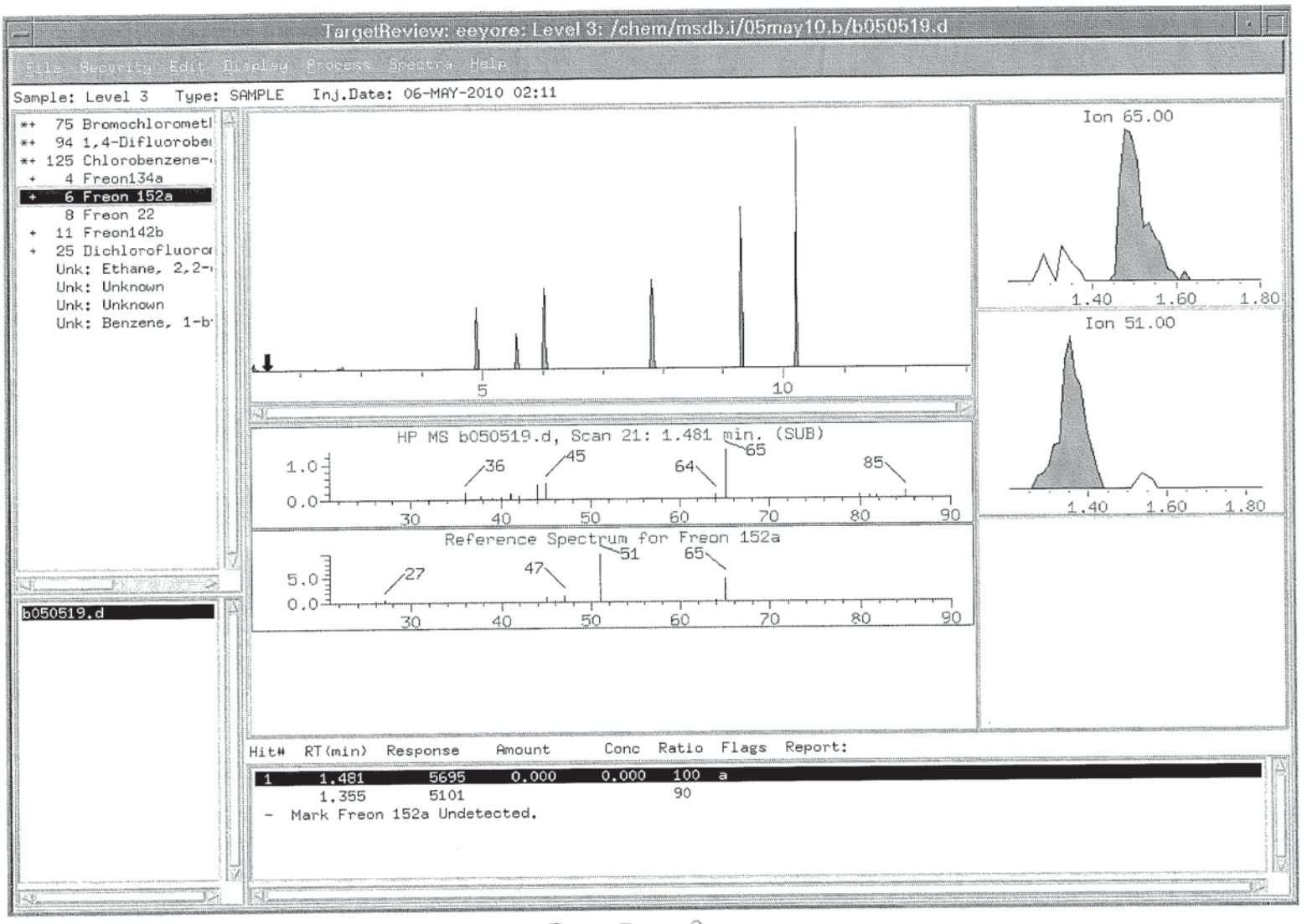

File Security Edit Display Process Spectra Help
Sample: ICAL Type: SAMPLE Inj.Date: 04-MAY-2010 10:59
+ 59 1,1-Dichloroetl
+ 70 2-Butanone
+ 68 cis-1,2-Dichlo
+ 74 Tetrahydrofura
+ 76 Chloroform
+ 77 Cyclohexane
+ 78 1,1,1-Trichlor
+ 79 Carbon Tetrach
+ 82 2,2,4-Trimethy
+ 83 Benzene
+ 89 1,2-Dichloroetl
+ 93 Heptane
+ 95 Trichloroethen
+ 97 Methyl Cyclohe
+ 99 1,2-Dichloropr
+ 104 Bromodichlorom
+ 108 cis-1,3-Dichlo
+ 109 4-Methyl-2-pen
+ 111 Toluene
+ 114 trans-1,3-Dich
+ 115 1,1,2-Trichlor
+ 116 Tetrachloroeth
+ 121 Dibromochlorom
+ 124 1,2-Dibromoeth
+ 127 Chlorobenzene
5
10
HP MS b050404.d, Scan 343: 6.014 min. (SUB)
114
0.0
60 90 120 150 180 210 240 270 300 330
Reference Spectrum for Methyl Cyclohexane
55 98 161 223 249 315 350
0.0
60 90 120 150 180 210 240 270 300 330
Ion 83.00
6.0 6.3 6.6
Ion 98.00
6.0 6.3 6.6
Ion 55.00
6.0 6.3 6.6
b050404.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 6.014 12267 6.885 6.885 100
6.364 4349 35
6.014 2843 23
- Mark Methyl Cyclohexane Undetected.

Date / Initial	05/04/10
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	X
Merged Pe	

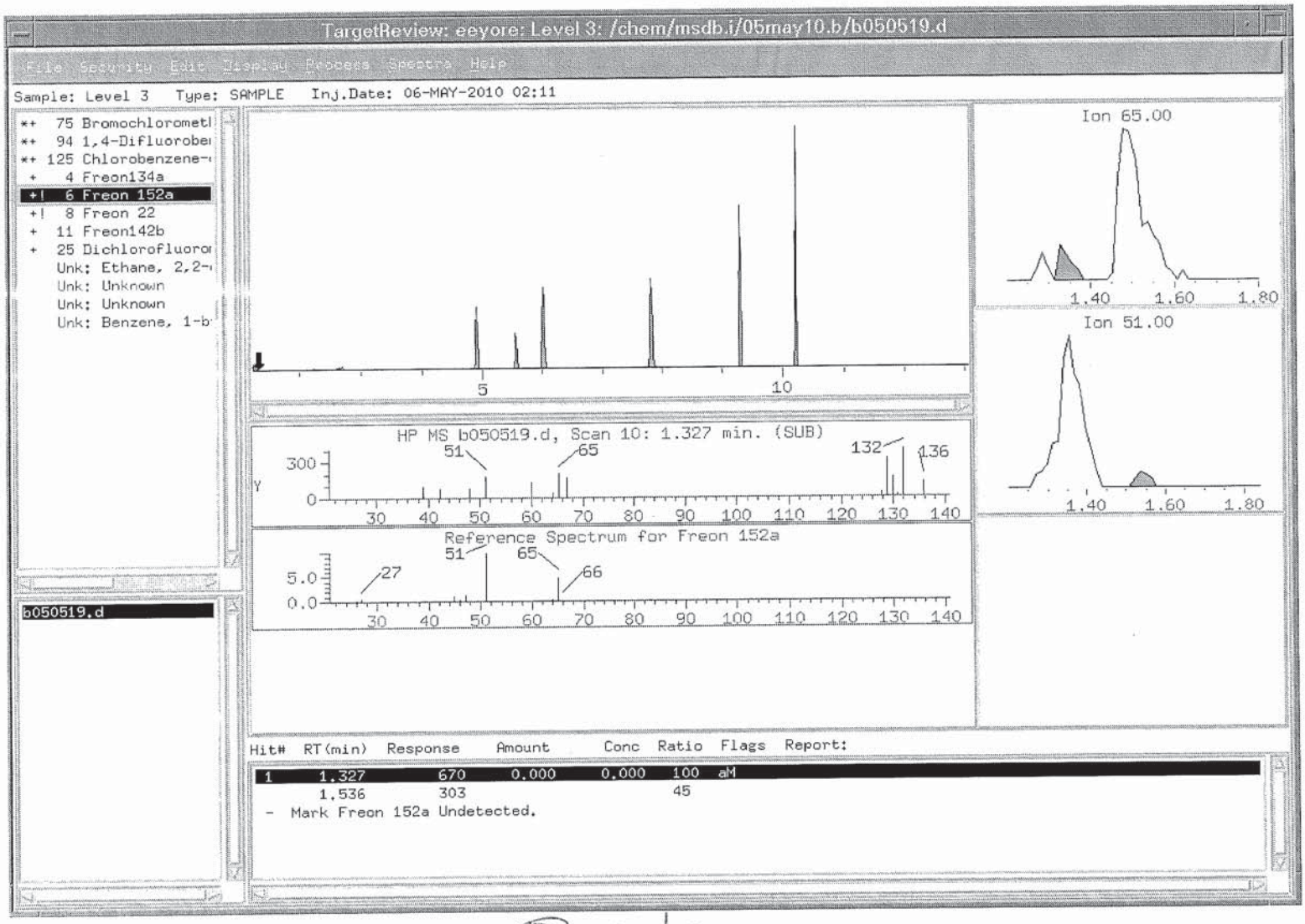
5/5/10

After




TargetReview: eeyore: Level 3: /chem/msdb.i/05may10.b/b050519.d
File Security Edit Display Process Spectra Help
Sample: Level 3 Type: SAMPLE Inj.Date: 06-MAY-2010 02:11
** 75 Bromochloromethl
** 94 1,4-Difluorobe
** 125 Chlorobenzene-
+ 4 Freon134a
+ 6 Freon 152a
8 Freon 22
+ 11 Freon142b
+ 25 Dichlorofluora
Unk: Ethane, 2,2-
Unk: Unknown
Unk: Unknown
Unk: Benzene, 1-b
b050519.d
5
10
Ion 65.00
1.40
1.60
1.80
Ion 51.00
1.40
1.60
1.80
HP MS b050519.d, Scan 21: 1.481 min. (SUB)
1.0
0.0
36
45
64
65
85
30
40
50
60
70
80
90
Reference Spectrum for Freon 152a
5.0
0.0
27
47
51
65
30
40
50
60
70
80
90
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 1.481 5695 0.000 0.000 100 a
1.355 5101 90
- Mark Freon 152a Undetected.

Before

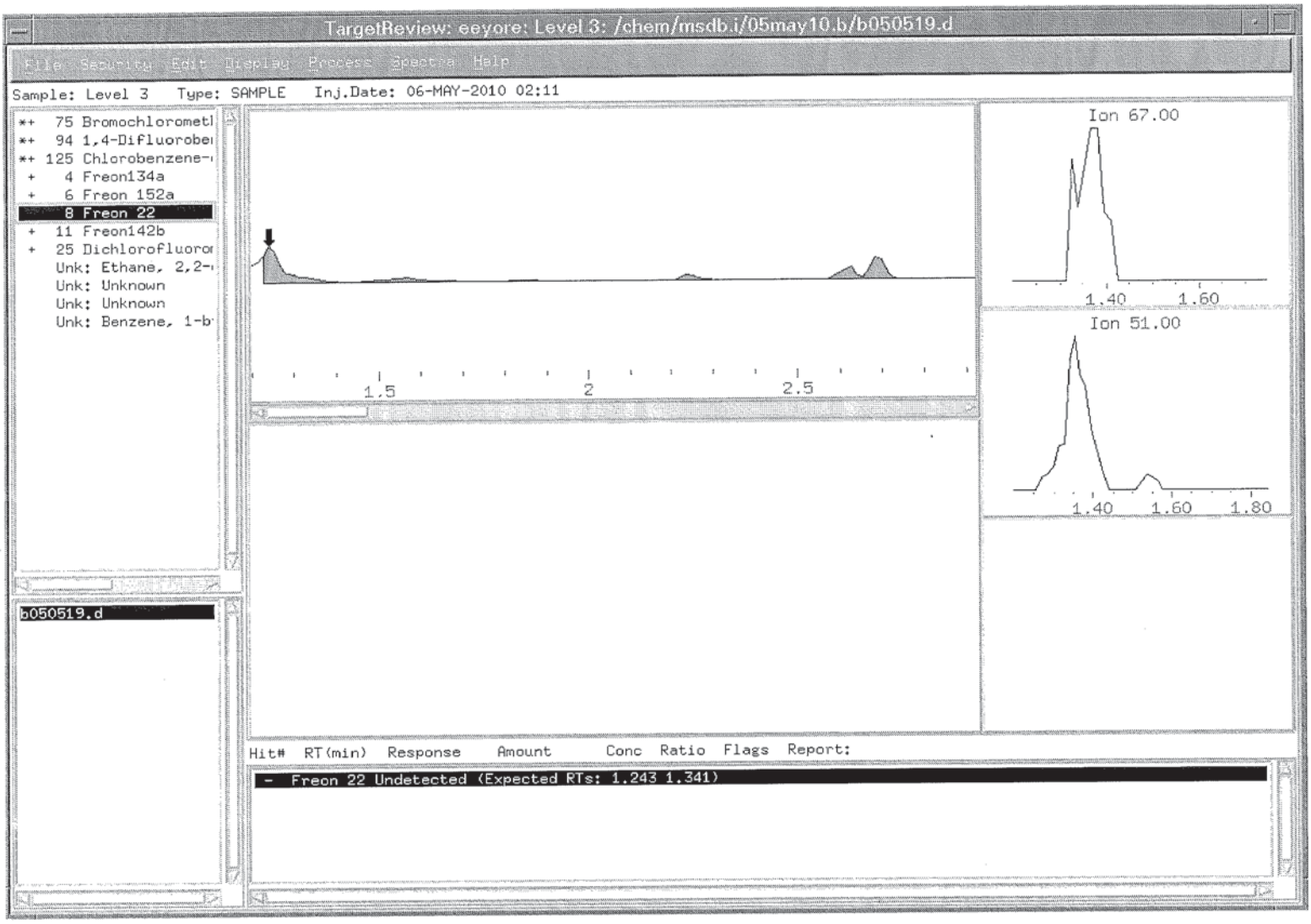


Bef After

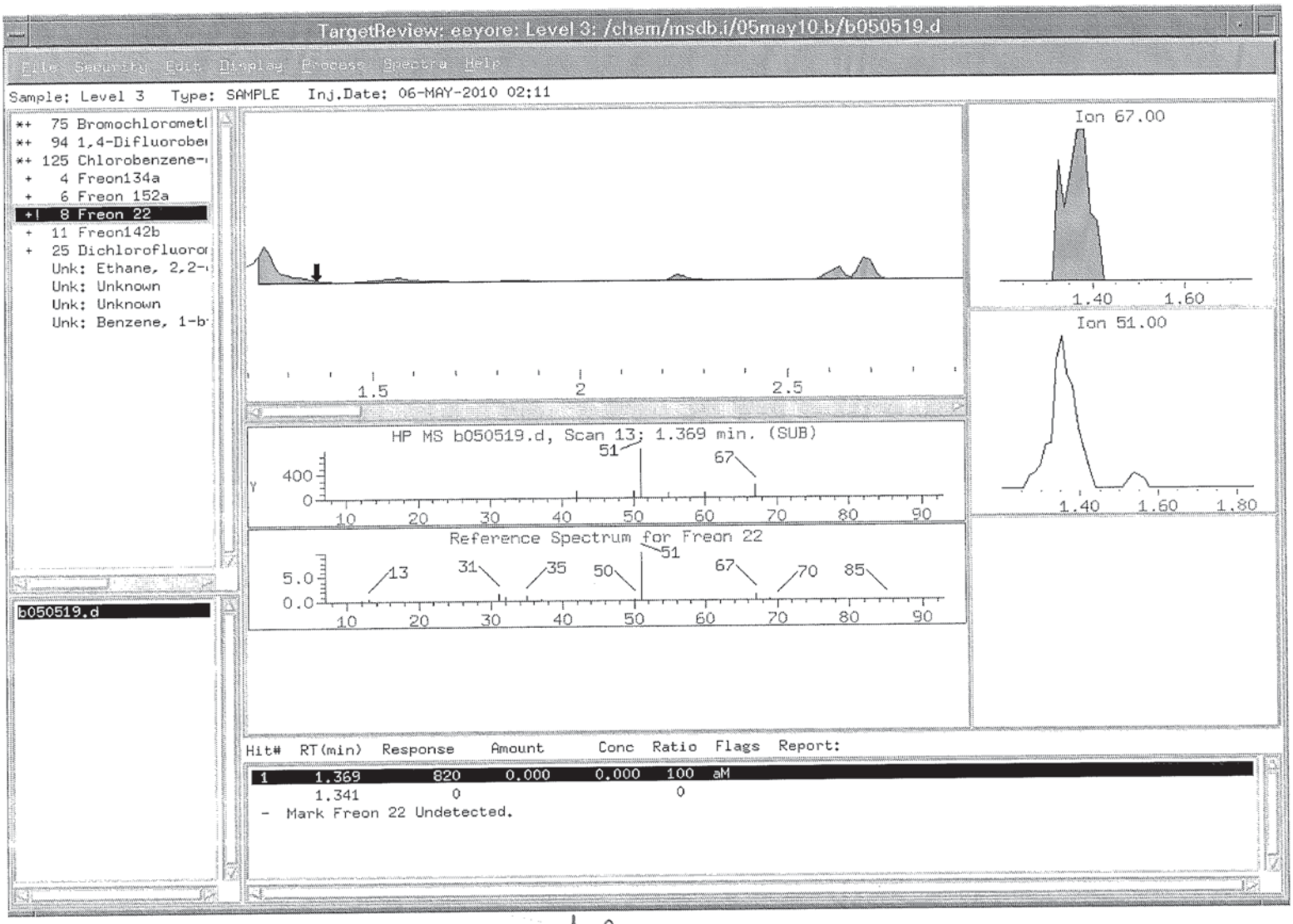
Dels

5/6/10 ✓ ML

05-07-10


TargetReview: eeyore: Level 3: /chem/msdb.i/05may10.b/b050519.d
File Security Edit Display Process Spectra Help
Sample: Level 3 Type: SAMPLE Inj.Date: 06-MAY-2010 02:11
** 75 Bromochloromethl
** 94 1,4-Difluorobe
** 125 Chlorobenzene-
+ 4 Freon134a
+ 6 Freon 152a
8 Freon 22
+ 11 Freon142b
+ 25 Dichlorofluoro
Unk: Ethane, 2,2-
Unk: Unknown
Unk: Unknown
Unk: Benzene, 1-b
b050519.d
1.5
2
2.5
Ion 67.00
1.40
1.60
Ion 51.00
1.40
1.60
1.80
Hit# RT(min) Response Amount Conc Ratio Flags Report:
- Freon 22 Undetected (Expected RTs: 1.243 1.341)

Before

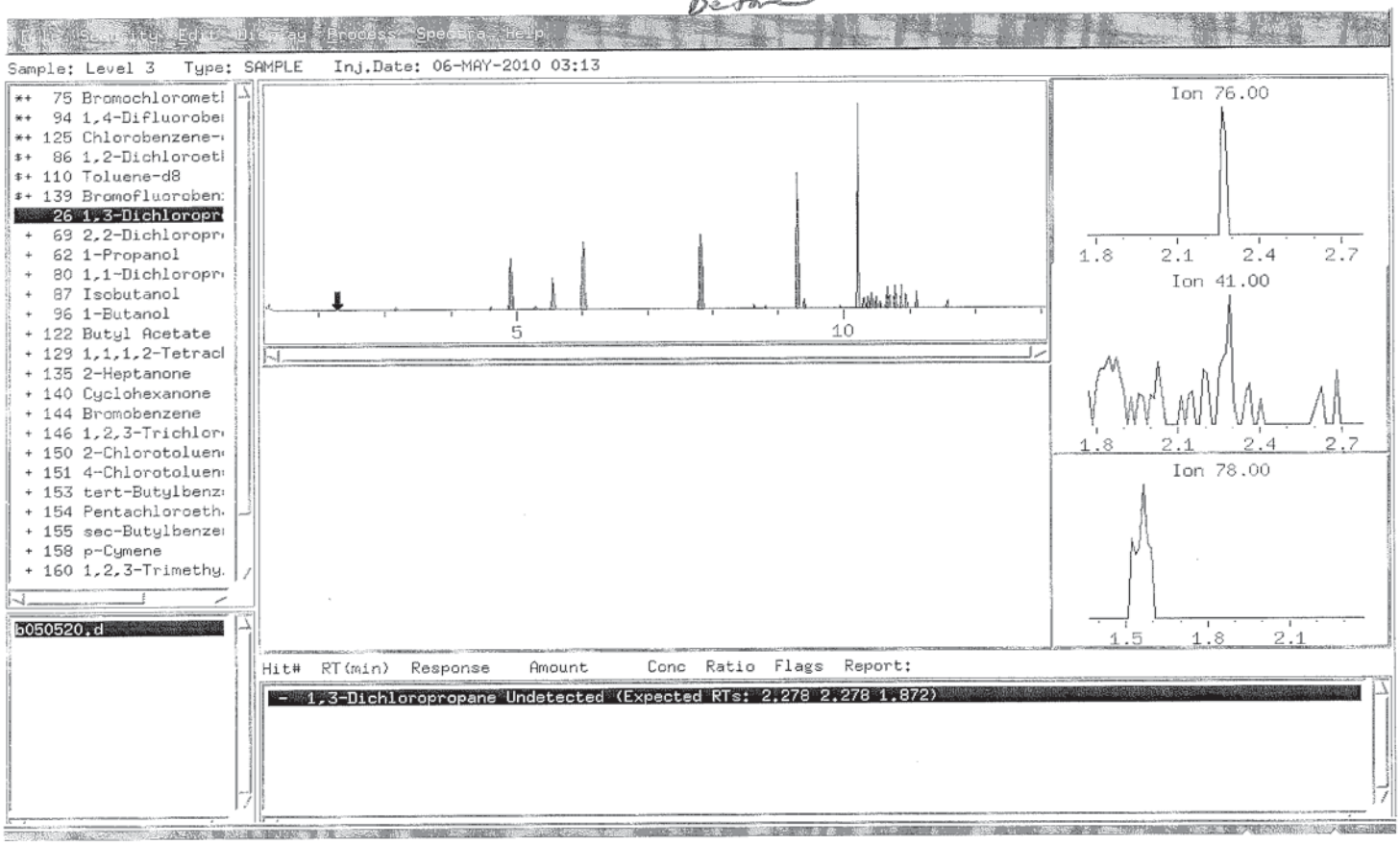


After

AES 5/6/10

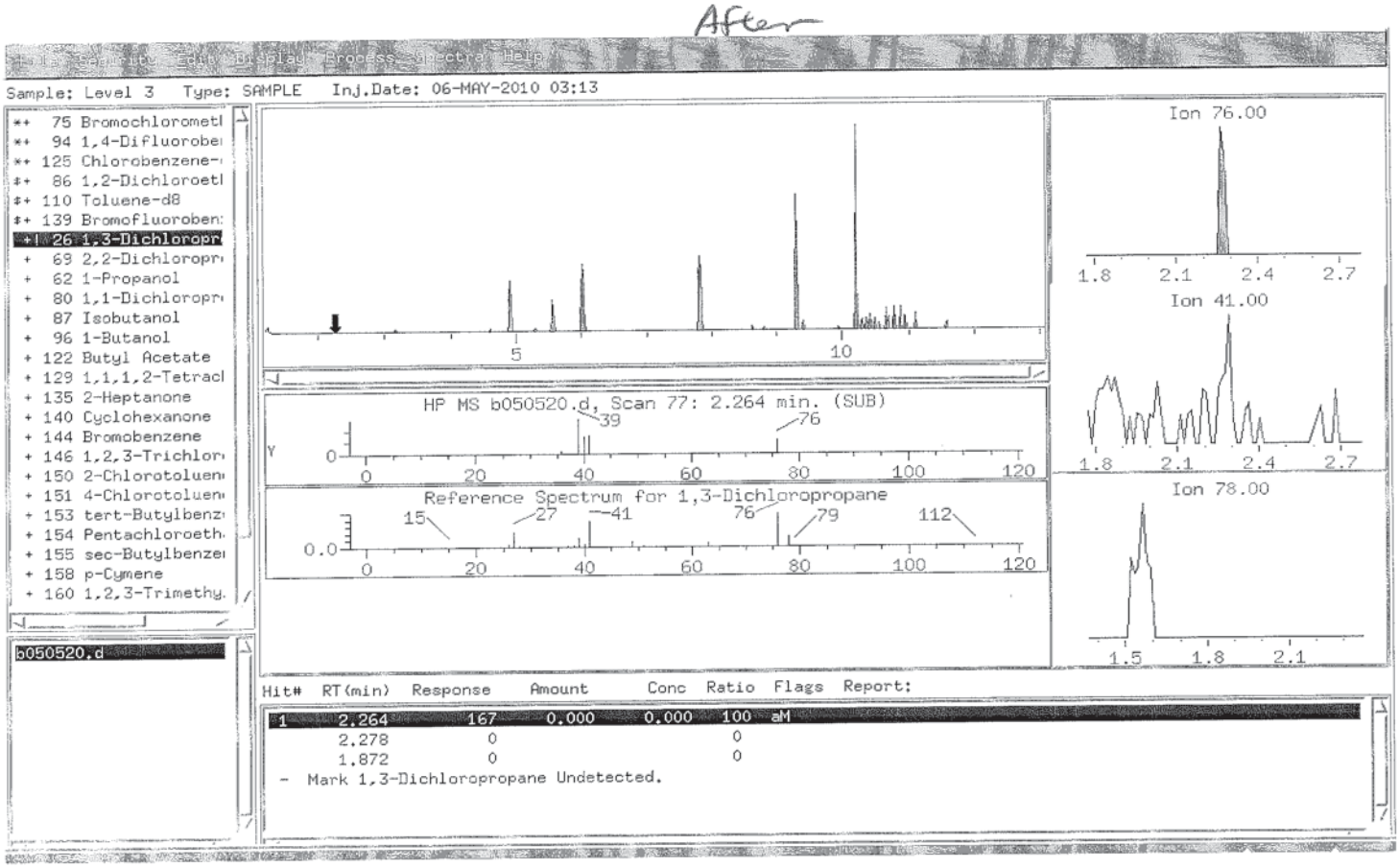
ML 05-07-10

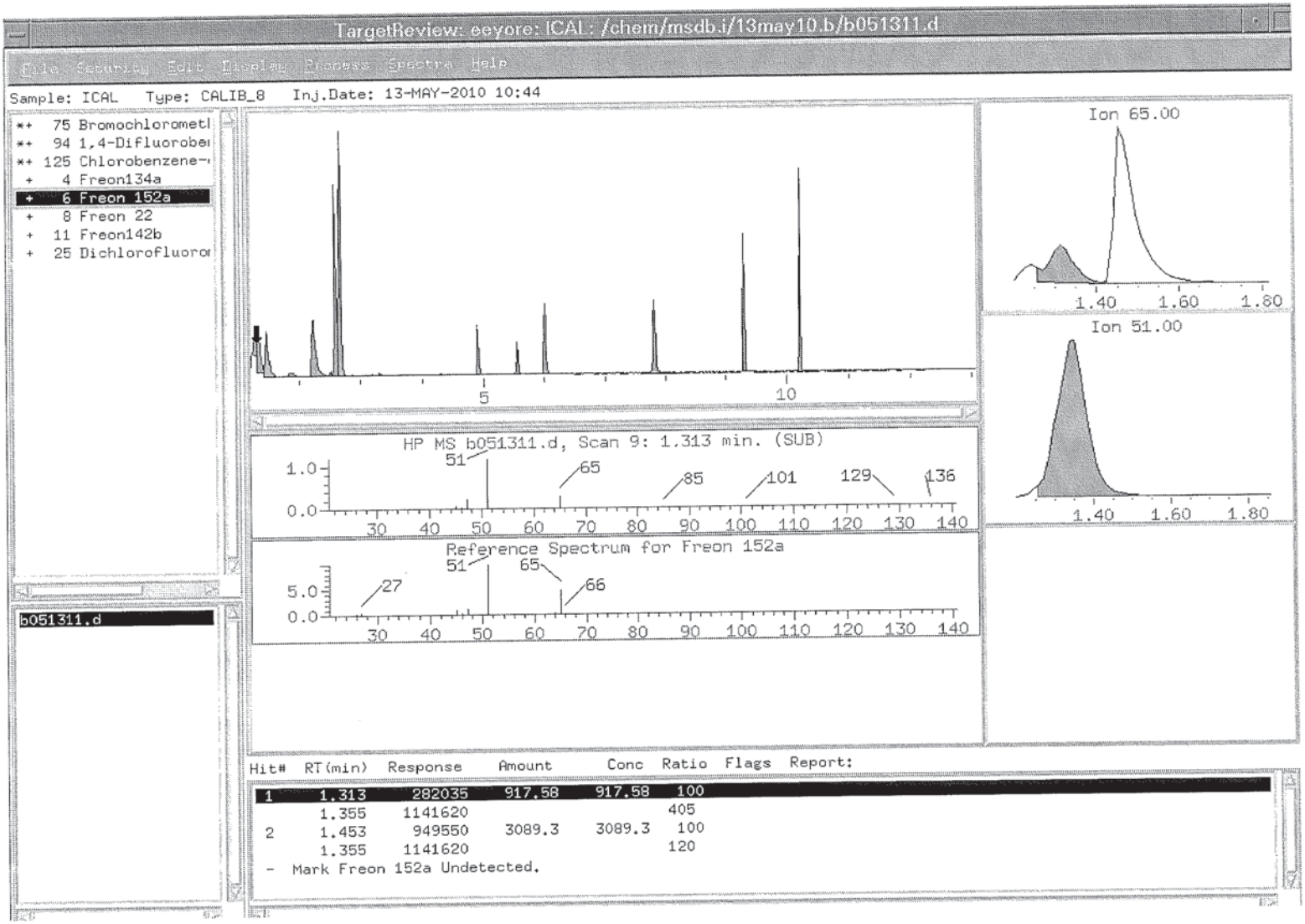
Before


File Security Edit Display Process Spectra Help
Sample: Level 3 Type: SAMPLE Inj.Date: 06-MAY-2010 03:13
** 75 Bromochlorometl
** 94 1,4-Difluorobe
** 125 Chlorobenzene-
$+ 86 1,2-Dichloroeth
$+ 110 Toluene-d8
$+ 139 Bromofluoroben
26 1,3-Dichloropr
+ 69 2,2-Dichloropr
+ 62 1-Propanol
+ 80 1,1-Dichloropr
+ 87 Isobutanol
+ 96 1-Butanol
+ 122 Butyl Acetate
+ 129 1,1,1,2-Tetracl
+ 135 2-Heptanone
+ 140 Cyclohexanone
+ 144 Bromobenzene
+ 146 1,2,3-Trichlor
+ 150 2-Chlorotoluen
+ 151 4-Chlorotoluen
+ 153 tert-Butylbenz
+ 154 Pentachloroeth
+ 155 sec-Butylbenze
+ 158 p-Cymene
+ 160 1,2,3-Trimethy
5
10
Ion 76.00
1.8
2.1
2.4
2.7
Ion 41.00
1.8
2.1
2.4
2.7
Ion 78.00
1.5
1.8
2.1
b050520.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
- 1,3-Dichloropropane Undetected (Expected RTs: 2.278 2.278 1.872)

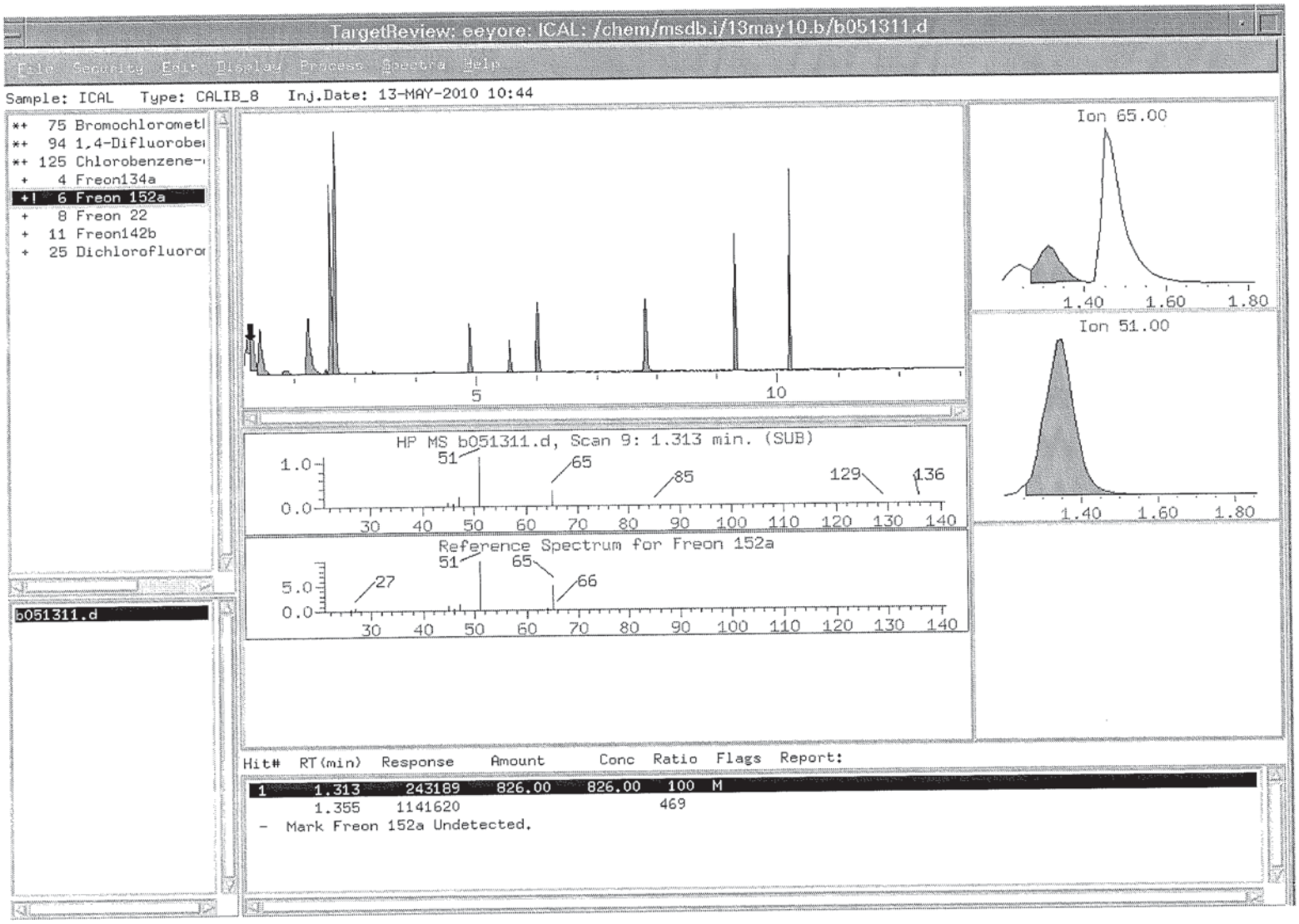
Initial	5/7/10
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	X
Merged Peaks	

After




TargetReview: eeyore: ICAL: /chem/msdb.i/13may10.b/b051311.d
File Security Edit Display Process Spectra Help
Sample: ICAL Type: CALIB_8 Inj.Date: 13-MAY-2010 10:44
*+ 75 Bromochloromethl
*+ 94 1,4-Difluorobe
*+ 125 Chlorobenzene-
+ 4 Freon134a
+ 6 Freon 152a
+ 8 Freon 22
+ 11 Freon142b
+ 25 Dichlorofluoro
b051311.d
5
10
Ion 65.00
1.40
1.60
1.80
Ion 51.00
1.40
1.60
1.80
HP MS b051311.d, Scan 9: 1.313 min. (SUB)
51
65
85
101
129
136
1.0
0.0
30 40 50 60 70 80 90 100 110 120 130 140
Reference Spectrum for Freon 152a
51
65
27
66
5.0
0.0
30 40 50 60 70 80 90 100 110 120 130 140
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 1.313 282035 917.58 917.58 100
1.355 1141620 405
2 1.453 949550 3089.3 3089.3 100
1.355 1141620 120
- Mark Freon 152a Undetected.

Before



After

5/14/10

Team A	
Date/Initial	14MAY2010
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15

Internal Standard and Associated Target Compounds and Surrogates

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050416.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 04-MAY-2010 16:53
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #1936-141
Misc Info : 200ppbv>200ppbv
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 06-May-2010 21:11 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 15:30 Cal File: b050413.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	305037	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	233787			47.13- 107.13	76.64
4.909	4.909 (1.000)	49	312391			73.34- 133.34	102.41
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1132592	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	162008			0.00- 43.97	14.30
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1066825	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	517688			0.00- 30.00	48.53
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	312136	394.072	394.07	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	176344			0.00- 30.00	56.50
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1102725	404.377	404.38	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	109684			0.00- 30.00	9.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	831997			0.00- 30.00	75.45
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	670868	407.875	407.88	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	736896			82.64- 142.64	109.84
10.212	10.212 (1.098)	176	647634			67.24- 127.24	96.54
5 Propylene					CAS #: 115-07-1		
1.313	1.299 (0.267)	41	127966	209.340	209.34	70.00- 130.00	100.00
1.313	1.299 (0.267)	42	85831			0.00- 30.00	67.07
1.313	1.299 (0.267)	39	91801			0.00- 30.00	71.74
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.327 (0.273)	85	519992	221.736	221.74	70.00- 130.00	100.00
1.341	1.327 (0.273)	87	157932			0.00- 30.00	30.37
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	443187	214.747	214.75	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	141439			1.72- 61.72	31.91
12 Chloromethane					CAS #: 74-87-3		
1.509	1.495 (0.307)	50	184904	220.537	220.54	70.00- 130.00	100.00
1.509	1.495 (0.307)	52	57525			0.00- 30.00	31.11
13 Butane					CAS #: 106-97-8		
1.565	1.565 (0.319)	58	48042	225.178	225.18	70.00- 130.00	100.00
1.565	1.565 (0.319)	43	348485			0.00- 30.00	725.38
15 Vinyl Chloride					CAS #: 75-01-4		
1.593	1.593 (0.324)	62	207819	231.460	231.46	70.00- 130.00	100.00
1.607	1.593 (0.327)	64	67160			0.00- 30.00	32.32
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.620 (0.330)	54	150430	228.203	228.20	70.00- 130.00	100.00
1.621	1.620 (0.330)	39	155197			0.00- 30.00	103.17
18 Bromomethane					CAS #: 74-83-9		
1.928	1.914 (0.393)	94	187647	230.487	230.49	70.00- 130.00	100.00
1.928	1.914 (0.393)	96	173999			63.57- 123.57	92.73
19 Chloroethane					CAS #: 75-00-3		
2.012	2.026 (0.410)	64	107332	220.012	220.01	70.00- 130.00	100.00
2.012	2.026 (0.410)	66	34586			0.00- 30.00	32.22
2.012	2.026 (0.410)	49	27596			0.00- 30.00	25.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	238724	228.984	228.98	70.00- 130.00	100.00
2.040	2.040 (0.416)	57	161134			0.00- 30.00	67.50
2.040	2.040 (0.416)	72	22234			0.00- 30.00	9.31
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.222	2.222 (0.453)	101	620324	216.593	216.59	70.00- 130.00	100.00
2.222	2.222 (0.453)	103	404497			35.14- 95.14	65.21
30 Ethanol					CAS #: 64-17-5		
2.502	2.474 (0.510)	45	68586	231.539	231.54	70.00- 130.00	100.00
2.502	2.474 (0.510)	43	14478			0.00- 30.00	21.11
2.502	2.474 (0.510)	46	30600			0.00- 30.00	44.62
34 Freon 113					CAS #: 76-13-1		
2.726	2.740 (0.555)	151	383444	195.486	195.49	70.00- 130.00	100.00
2.726	2.740 (0.555)	153	243455			34.33- 94.33	63.49
2.726	2.740 (0.555)	101	446864			86.07- 146.07	116.54
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	284966	200.218	200.22	70.00- 130.00	100.00
2.754	2.754 (0.561)	96	204736			42.00- 102.00	71.85
2.754	2.754 (0.561)	98	131623			17.00- 77.00	46.19
38 Acetone					CAS #: 67-64-1		
2.894	2.880 (0.590)	58	91047	215.896	215.90	70.00- 130.00	100.00
2.894	2.880 (0.590)	43	289349			0.00- 30.00	317.80
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.936 (0.601)	76	567158	224.854	224.85	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.006 (0.615)	45	274775	221.478	221.48	70.00- 130.00	100.00
3.020	3.006 (0.615)	43	67990			0.00- 30.00	24.74
3.020	3.006 (0.615)	59	11468			0.00- 30.00	4.17
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	85424	226.289	226.29	70.00- 130.00	100.00
3.160	3.160 (0.644)	41	210468			0.00- 30.00	246.38
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	210050	184.497	184.50	70.00- 130.00	100.00
3.314	3.314 (0.675)	84	177783			52.13- 112.13	84.64
3.314	3.314 (0.675)	51	63792			0.00- 30.00	30.37
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.426	3.425 (0.698)	59	300259	229.062	229.06	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
49 tert-Butyl-Alcohol (continued)							
3.426	3.425 (0.698)	41	117196			0.00- 30.00	39.03
3.426	3.425 (0.698)	57	33335			0.00- 30.00	11.10
50 MTBE					CAS #: 1634-04-4		
3.509	3.509 (0.715)	73	505489	224.418	224.42	70.00- 130.00	100.00
3.509	3.509 (0.715)	57	115452			0.00- 52.28	22.84
3.509	3.509 (0.715)	41	140239			0.00- 30.00	27.74
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.537	3.537 (0.721)	96	245652	223.173	223.17	70.00- 130.00	100.00
3.537	3.537 (0.721)	61	292322			87.47- 147.47	119.00
3.537	3.537 (0.721)	98	153682			0.00- 30.00	62.56
55 Hexane					CAS #: 110-54-3		
3.733	3.733 (0.761)	57	326633	219.693	219.69	70.00- 130.00	100.00
3.747	3.733 (0.763)	43	204924			0.00- 30.00	62.74
3.747	3.733 (0.763)	86	69198			0.00- 30.00	21.19
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	716829	221.552	221.55	70.00- 130.00	100.00
4.013	4.013 (0.818)	87	221259			0.00- 30.00	30.87
4.013	4.013 (0.818)	59	83497			0.00- 30.00	11.65
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	358209	214.101	214.10	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	113666			1.02- 61.02	31.73
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	52177	222.832	222.83	70.00- 130.00	100.00
4.069	4.083 (0.829)	43	532181			0.00- 30.00	1019.95
4.083	4.083 (0.832)	42	49743			0.00- 30.00	95.34
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	600090	225.512	225.51	70.00- 130.00	100.00
4.391	4.391 (0.895)	87	283501			0.00- 30.00	47.24
4.391	4.391 (0.895)	41	138134			0.00- 30.00	23.02
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	264616	214.787	214.79	70.00- 130.00	100.00
4.643	4.643 (0.946)	96	243580			61.77- 121.77	92.05
4.643	4.643 (0.946)	98	157220			30.06- 90.06	59.41
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	108282	228.717	228.72	70.00- 130.00	100.00
4.685	4.685 (0.954)	43	414093			348.59- 408.59	382.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.685	4.685 (0.954)	57	32239			0.00- 30.00	29.77
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	235222	230.839	230.84	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	94823			11.35- 71.35	40.31
4.895	4.895 (0.997)	72	100316			0.00- 30.00	42.65
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	436816	213.371	213.37	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	289300			37.23- 97.23	66.23
77 Cyclohexane					CAS #: 110-82-7		
5.077	5.090 (1.034)	84	320615	218.876	218.88	70.00- 130.00	100.00
5.077	5.090 (1.034)	56	330640			71.80- 131.80	103.13
5.077	5.090 (1.034)	41	188248			26.96- 86.96	58.71
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.118 (1.043)	97	463846	219.586	219.59	70.00- 130.00	100.00
5.119	5.118 (1.043)	99	297756			34.22- 94.22	64.19
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.244	5.244 (1.068)	119	511546	217.820	217.82	70.00- 130.00	100.00
5.244	5.244 (1.068)	117	535232			74.38- 134.38	104.63
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.496	5.496 (1.120)	57	1034572	220.131	220.13	70.00- 130.00	100.00
5.496	5.496 (1.120)	56	353084			0.00- 30.00	34.13
5.496	5.496 (1.120)	41	268067			0.00- 30.00	25.91
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	665353	221.459	221.46	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	158039			0.00- 30.00	23.75
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	529559	227.383	227.38	70.00- 130.00	100.00
5.622	5.622 (1.145)	87	136768			0.00- 30.00	25.83
5.622	5.622 (1.145)	55	207509			0.00- 30.00	39.19
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	273216	212.610	212.61	70.00- 130.00	100.00
5.636	5.636 (0.937)	64	90371			0.00- 30.00	33.08
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	243316	227.298	227.30	70.00- 130.00	100.00
5.734	5.734 (0.953)	43	372254			0.00- 30.00	152.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	92859			0.00- 30.00	38.16
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	317001	222.417	222.42	70.00- 130.00	100.00
6.252	6.252 (1.040)	130	362739			84.53- 144.53	114.43
6.252	6.252 (1.040)	97	206096			36.61- 96.61	65.01
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	423126	220.044	220.04	70.00- 130.00	100.00
6.364	6.364 (1.058)	98	224605			0.00- 30.00	53.08
6.364	6.364 (1.058)	55	297728			0.00- 30.00	70.36
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	229761	219.581	219.58	70.00- 130.00	100.00
6.574	6.574 (1.093)	62	163194			43.08- 103.08	71.03
6.560	6.574 (1.091)	41	132222			28.43- 88.43	57.55
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	167458	231.012	231.01	70.00- 130.00	100.00
6.700	6.700 (1.114)	58	105015			32.25- 92.25	62.71
6.700	6.700 (1.114)	57	33843			0.00- 30.00	20.21
104 Bromodichloromethane					CAS #: 75-27-4		
6.909	6.909 (1.149)	83	446028	220.308	220.31	70.00- 130.00	100.00
6.909	6.909 (1.149)	85	294667			36.61- 96.61	66.06
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	330794	233.297	233.30	70.00- 130.00	100.00
7.539	7.539 (1.254)	77	103330			0.55- 60.55	31.24
7.539	7.539 (1.254)	39	156751			17.59- 77.59	47.39
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.763	7.763 (1.291)	85	90068	239.083	239.08	70.00- 130.00	100.00
7.763	7.763 (1.291)	43	484234			0.00- 30.00	537.63
7.763	7.763 (1.291)	58	196385			0.00- 30.00	218.04
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	839863	210.268	210.27	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	490440			28.40- 88.40	58.40
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	332469	234.306	234.31	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	107071			1.48- 61.48	32.20
8.281	8.281 (0.890)	39	150863			15.25- 75.25	45.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	300348	218.015	218.02	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	188453			32.37- 92.37	62.74
8.463	8.463 (0.910)	83	248160			52.59- 112.59	82.62
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	479139	211.138	211.14	70.00- 130.00	100.00
8.477	8.477 (0.911)	129	346790			42.20- 102.20	72.38
8.477	8.477 (0.911)	131	335756			40.52- 100.52	70.07
120 2-Hexanone					CAS #: 591-78-6		
8.714	8.714 (0.937)	58	261222	236.960	236.96	70.00- 130.00	100.00
8.714	8.714 (0.937)	43	485560			157.20- 217.20	185.88
8.714	8.714 (0.937)	100	68217			0.00- 30.00	26.11
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	555485	226.937	226.94	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	429848			0.00- 30.00	77.38
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	508234	231.183	231.18	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	480075			64.58- 124.58	94.46
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	771344	218.884	218.88	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	244455			2.47- 62.47	31.69
9.330	9.330 (1.003)	77	379574			19.40- 79.40	49.21
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	396279	223.419	223.42	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	1156834			0.00- 30.00	291.92
131 m,p-Xylene					CAS #: 108-38-3		
9.498	9.498 (1.021)	106	500012	225.522	225.52	70.00- 130.00	100.00
9.498	9.498 (1.021)	91	929143			0.00- 30.00	185.82
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	458205	216.271	216.27	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	893098			166.95- 226.95	194.91
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	727449	238.436	238.44	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	320695			14.53- 74.53	44.08
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	535541	230.270	230.27	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	275036			20.55- 80.55	51.36
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	1355103	218.830	218.83	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	388214			0.00- 30.00	28.65
10.072	10.072 (1.083)	51	107738			0.00- 30.00	7.95
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.337	10.337 (1.111)	83	647270	220.448	220.45	70.00- 130.00	100.00
10.337	10.337 (1.111)	85	425638			36.42- 96.42	65.76
143 Propylbenzene					CAS #: 103-65-1		
10.351	10.351 (1.113)	91	1553370	214.873	214.87	70.00- 130.00	100.00
10.351	10.351 (1.113)	120	401279			0.00- 30.00	25.83
10.351	10.351 (1.113)	105	63195			0.00- 30.00	4.07
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	1420849	218.298	218.30	70.00- 130.00	100.00
10.421	10.421 (1.120)	120	454803			2.37- 62.37	32.01
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	1191123	221.519	221.52	70.00- 130.00	100.00
10.463	10.463 (1.125)	120	609395			0.00- 30.00	51.16
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	1088032	219.395	219.39	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	537541			18.64- 78.64	49.40
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	833125	209.972	209.97	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	538365			0.00- 30.00	64.62
10.883	10.883 (1.170)	111	317320			0.00- 30.00	38.09
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	870713	219.245	219.24	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	554885			0.00- 30.00	63.73
10.939	10.939 (1.176)	111	313740			0.00- 30.00	36.03
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	705697	262.160	262.16	70.00- 130.00	100.00(R)
11.023	11.023 (1.185)	126	172064			0.00- 30.00	24.38
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	799530	218.268	218.27	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	511888			34.19- 94.19	64.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	312068			9.07- 69.07	39.03
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.974 (1.287)	180	460432	216.871	216.87	70.00- 130.00	100.00
11.975	11.974 (1.287)	182	435873			64.84- 124.84	94.67
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.030	12.030 (1.293)	225	428680	217.538	217.54	70.00- 130.00	100.00
12.030	12.030 (1.293)	223	271966			31.62- 91.62	63.44
171 Naphthalene					CAS #: 91-20-3		
12.114	12.114 (1.302)	128	662896	277.302	277.30	70.00- 130.00	100.00
12.114	12.114 (1.302)	127	83153			0.00- 30.00	12.54

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050416.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 200ppbv>200ppbv

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	305037	2.26
94 1,4-Difluorobenze	1131229	678737	1583721	1132592	0.12
125 Chlorobenzene-d5	1067777	640666	1494888	1066825	-0.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	0.00

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

Report Date: 06-May-2010 21:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 04may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: ww
Data Type: MS DATA SampleType: LCS
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 200ppbv>200ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
7 Dichlorodifluorome	200.00	221.74	110.87	70-130
9 Freon 114	200.00	214.75	107.37	70-130
12 Chloromethane	200.00	220.54	110.27	70-130
15 Vinyl Chloride	200.00	231.46	115.73	70-130
16 1,3-Butadiene	200.00	228.20	114.10	60-140
18 Bromomethane	200.00	230.49	115.24	70-130
19 Chloroethane	200.00	220.01	110.01	70-130
23 Trichlorofluoromet	200.00	216.59	108.30	70-130
30 Ethanol	200.00	231.54	115.77	60-140
34 Freon 113	200.00	195.49	97.74	70-130
36 1,1-Dichloroethene	200.00	200.22	100.11	70-130
39 Carbon Disulfide	200.00	224.85	112.43	60-140
38 Acetone	200.00	215.90	107.95	60-140
41 2-Propanol	200.00	221.48	110.74	60-140
42 3-Chloropropene	200.00	226.29	113.14	60-140
48 Methylene Chloride	200.00	184.50	92.25	70-130
50 MTBE	200.00	224.42	112.21	60-140
52 trans-1,2-Dichloro	200.00	223.17	111.59	60-140
55 Hexane	200.00	219.69	109.85	60-140
59 1,1-Dichloroethane	200.00	214.10	107.05	70-130
60 Vinyl Acetate	200.00	222.83	111.42	60-140
68 cis-1,2-Dichloroet	200.00	214.79	107.39	70-130
70 2-Butanone	200.00	228.72	114.36	60-140
74 Tetrahydrofuran	200.00	230.84	115.42	60-140
76 Chloroform	200.00	213.37	106.69	70-130
77 Cyclohexane	200.00	218.88	109.44	60-140
78 1,1,1-Trichloroeth	200.00	219.59	109.79	70-130
79 Carbon Tetrachlori	200.00	217.82	108.91	70-130
82 2,2,4-Trimethylpen	200.00	220.13	110.07	60-140
83 Benzene	200.00	221.46	110.73	70-130
89 1,2-Dichloroethane	200.00	212.61	106.31	70-130
93 Heptane	200.00	227.30	113.65	60-140
95 Trichloroethene	200.00	222.42	111.21	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
	99 1,2-Dichloropropan	200.00	219.58	109.79	70-130
	102 1,4-Dioxane	200.00	231.01	115.51	60-140
	104 Bromodichlorometha	200.00	220.31	110.15	60-140
	108 cis-1,3-Dichloropr	200.00	233.30	116.65	70-130
	109 4-Methyl-2-pentano	200.00	239.08	119.54	60-140
	111 Toluene	200.00	210.27	105.13	70-130
	114 trans-1,3-Dichloro	200.00	234.31	117.15	70-130
	115 1,1,2-Trichloroeth	200.00	218.02	109.01	70-130
	116 Tetrachloroethene	200.00	211.14	105.57	70-130
	120 2-Hexanone	200.00	236.96	118.48	60-140
	121 Dibromochlorometha	200.00	226.94	113.47	60-140
	124 1,2-Dibromoethane	200.00	231.18	115.59	70-130
	127 Chlorobenzene	200.00	218.88	109.44	70-130
	128 Ethyl Benzene	200.00	223.42	111.71	70-130
	131 m,p-Xylene	200.00	225.52	112.76	70-130
	132 o-Xylene	200.00	216.27	108.14	70-130
	134 Styrene	200.00	238.44	119.22	70-130
	136 Bromoform	200.00	230.27	115.13	60-140
	138 Cumene	200.00	218.83	109.41	60-140
	142 1,1,2,2-Tetrachlor	200.00	220.45	110.22	70-130
	143 Propylbenzene	200.00	214.87	107.44	60-140
	147 4-Ethyltoluene	200.00	218.30	109.15	60-140
	149 1,3,5-Trimethylben	200.00	221.52	110.76	70-130
	152 1,2,4-Trimethylben	200.00	219.39	109.70	70-130
	156 1,3-Dichlorobenzen	200.00	209.97	104.99	70-130
	159 1,4-Dichlorobenzen	200.00	219.24	109.62	70-130
	161 alpha-Chlorotoluen	200.00	262.16	131.08*	70-130
	163 1,2-Dichlorobenzen	200.00	218.27	109.13	70-130
	169 1,2,4-Trichloroben	200.00	216.87	108.44	70-130
	170 Hexachlorobutadien	200.00	217.54	108.77	70-130
	5 Propylene	200.00	209.34	104.67	60-140
	13 Butane	200.00	225.18	112.59	70-130
	20 Isopentane	200.00	228.98	114.49	70-130
	97 Methyl Cyclohexane	200.00	220.04	110.02	70-130
	49 tert-Butyl-Alcohol	200.00	229.06	114.53	60-140
	58 Isopropyl ether	200.00	221.55	110.78	60-140
	64 Ethyl-tert-butyl E	200.00	225.51	112.76	60-140
	88 tert-amyl-Methyl E	200.00	227.38	113.69	60-140
	171 Naphthalene	200.00	277.30	138.65	60-140

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$	86 1,2-Dichloroethane	400.00	394.07	98.52	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 110 Toluene-d8	400.00	404.38	101.09	70-130
$ 139 Bromofluorobenzene	400.00	407.88	101.97	70-130

Data File: /chem/msdb.i/04may10.b/b050416.d

Date : 04-MAY-2010 16:53

Client ID: LCS

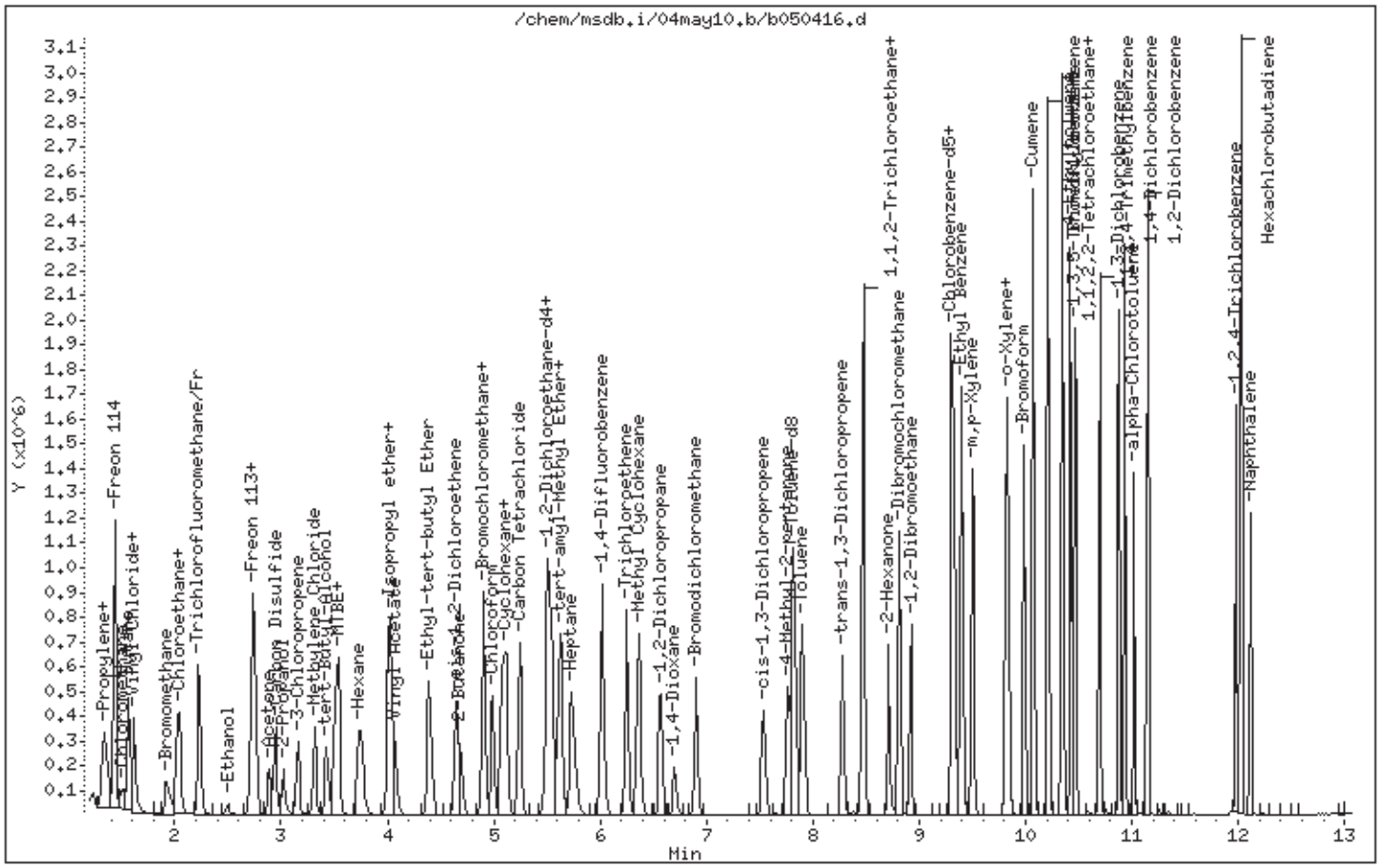
Instrument: msdb.i

Sample Info: 50mL #1936-141

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050416a.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 04-MAY-2010 16:53
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #1936-141
Misc Info : 200ppbv>200ppbv
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 06-May-2010 21:11 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 15:30 Cal File: b050413.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	305037	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	233787			47.13- 107.13	76.64
4.909	4.909 (1.000)	49	312391			73.34- 133.34	102.41
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1132592	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	162008			0.00- 43.97	14.30
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1066825	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	517688			0.00- 30.00	48.53
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	312136	394.072	394.07	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	176344			0.00- 30.00	56.50
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1102725	404.377	404.38	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	109684			0.00- 30.00	9.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	831997			0.00- 30.00	75.45
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	670868	407.875	407.88	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	736896			82.64- 142.64	109.84
10.212	10.212 (1.098)	176	647634			67.24- 127.24	96.54
5 Propylene					CAS #: 115-07-1		
1.313	1.299 (0.267)	41	127966	209.340	209.34	70.00- 130.00	100.00
1.313	1.299 (0.267)	42	85831			0.00- 30.00	67.07
1.313	1.299 (0.267)	39	91801			0.00- 30.00	71.74
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.327 (0.273)	85	519992	221.736	221.74	70.00- 130.00	100.00
1.341	1.327 (0.273)	87	157932			0.00- 30.00	30.37
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	443187	214.747	214.75	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	141439			1.72- 61.72	31.91
12 Chloromethane					CAS #: 74-87-3		
1.509	1.495 (0.307)	50	184904	220.537	220.54	70.00- 130.00	100.00
1.509	1.495 (0.307)	52	57525			0.00- 30.00	31.11
13 Butane					CAS #: 106-97-8		
1.565	1.565 (0.319)	58	48042	225.178	225.18	70.00- 130.00	100.00
1.565	1.565 (0.319)	43	348485			0.00- 30.00	725.38
15 Vinyl Chloride					CAS #: 75-01-4		
1.593	1.593 (0.324)	62	207819	231.460	231.46	70.00- 130.00	100.00
1.607	1.593 (0.327)	64	67160			0.00- 30.00	32.32
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.620 (0.330)	54	150430	228.203	228.20	70.00- 130.00	100.00
1.621	1.620 (0.330)	39	155197			0.00- 30.00	103.17
18 Bromomethane					CAS #: 74-83-9		
1.928	1.914 (0.393)	94	187647	230.487	230.49	70.00- 130.00	100.00
1.928	1.914 (0.393)	96	173999			63.57- 123.57	92.73
19 Chloroethane					CAS #: 75-00-3		
2.012	2.026 (0.410)	64	107332	220.012	220.01	70.00- 130.00	100.00
2.012	2.026 (0.410)	66	34586			0.00- 30.00	32.22
2.012	2.026 (0.410)	49	27596			0.00- 30.00	25.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	238724	228.984	228.98	70.00- 130.00	100.00
2.040	2.040 (0.416)	57	161134			0.00- 30.00	67.50
2.040	2.040 (0.416)	72	22234			0.00- 30.00	9.31
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.222	2.222 (0.453)	101	620324	216.593	216.59	70.00- 130.00	100.00
2.222	2.222 (0.453)	103	404497			35.14- 95.14	65.21
30 Ethanol					CAS #: 64-17-5		
2.502	2.474 (0.510)	45	68586	231.539	231.54	70.00- 130.00	100.00
2.502	2.474 (0.510)	43	14478			0.00- 30.00	21.11
2.502	2.474 (0.510)	46	30600			0.00- 30.00	44.62
34 Freon 113					CAS #: 76-13-1		
2.726	2.740 (0.555)	151	383444	195.486	195.49	70.00- 130.00	100.00
2.726	2.740 (0.555)	153	243455			34.33- 94.33	63.49
2.726	2.740 (0.555)	101	446864			86.07- 146.07	116.54
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	284966	200.218	200.22	70.00- 130.00	100.00
2.754	2.754 (0.561)	96	204736			42.00- 102.00	71.85
2.754	2.754 (0.561)	98	131623			17.00- 77.00	46.19
38 Acetone					CAS #: 67-64-1		
2.894	2.880 (0.590)	58	91047	215.896	215.90	70.00- 130.00	100.00
2.894	2.880 (0.590)	43	289349			0.00- 30.00	317.80
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.936 (0.601)	76	567158	224.854	224.85	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.006 (0.615)	45	274775	221.478	221.48	70.00- 130.00	100.00
3.020	3.006 (0.615)	43	67990			0.00- 30.00	24.74
3.020	3.006 (0.615)	59	11468			0.00- 30.00	4.17
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	85424	226.289	226.29	70.00- 130.00	100.00
3.160	3.160 (0.644)	41	210468			0.00- 30.00	246.38
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	210050	184.497	184.50	70.00- 130.00	100.00
3.314	3.314 (0.675)	84	177783			52.13- 112.13	84.64
3.314	3.314 (0.675)	51	63792			0.00- 30.00	30.37
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.426	3.425 (0.698)	59	300259	229.062	229.06	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
49 tert-Butyl-Alcohol (continued)							
3.426	3.425 (0.698)	41	117196			0.00- 30.00	39.03
3.426	3.425 (0.698)	57	33335			0.00- 30.00	11.10
50 MTBE					CAS #: 1634-04-4		
3.509	3.509 (0.715)	73	505489	224.418	224.42	70.00- 130.00	100.00
3.509	3.509 (0.715)	57	115452			0.00- 52.28	22.84
3.509	3.509 (0.715)	41	140239			0.00- 30.00	27.74
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.537	3.537 (0.721)	96	245652	223.173	223.17	70.00- 130.00	100.00
3.537	3.537 (0.721)	61	292322			87.47- 147.47	119.00
3.537	3.537 (0.721)	98	153682			0.00- 30.00	62.56
55 Hexane					CAS #: 110-54-3		
3.733	3.733 (0.761)	57	326633	219.693	219.69	70.00- 130.00	100.00
3.747	3.733 (0.763)	43	204924			0.00- 30.00	62.74
3.747	3.733 (0.763)	86	69198			0.00- 30.00	21.19
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	716829	221.552	221.55	70.00- 130.00	100.00
4.013	4.013 (0.818)	87	221259			0.00- 30.00	30.87
4.013	4.013 (0.818)	59	83497			0.00- 30.00	11.65
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	358209	214.101	214.10	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	113666			1.02- 61.02	31.73
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	52177	222.832	222.83	70.00- 130.00	100.00
4.069	4.083 (0.829)	43	532181			0.00- 30.00	1019.95
4.083	4.083 (0.832)	42	49743			0.00- 30.00	95.34
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	600090	225.512	225.51	70.00- 130.00	100.00
4.391	4.391 (0.895)	87	283501			0.00- 30.00	47.24
4.391	4.391 (0.895)	41	138134			0.00- 30.00	23.02
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	264616	214.787	214.79	70.00- 130.00	100.00
4.643	4.643 (0.946)	96	243580			61.77- 121.77	92.05
4.643	4.643 (0.946)	98	157220			30.06- 90.06	59.41
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	108282	228.717	228.72	70.00- 130.00	100.00
4.685	4.685 (0.954)	43	414093			348.59- 408.59	382.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.685	4.685 (0.954)	57	32239			0.00- 30.00	29.77
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	235222	230.839	230.84	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	94823			11.35- 71.35	40.31
4.895	4.895 (0.997)	72	100316			0.00- 30.00	42.65
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	436816	213.371	213.37	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	289300			37.23- 97.23	66.23
77 Cyclohexane					CAS #: 110-82-7		
5.077	5.090 (1.034)	84	320615	218.876	218.88	70.00- 130.00	100.00
5.077	5.090 (1.034)	56	330640			71.80- 131.80	103.13
5.077	5.090 (1.034)	41	188248			26.96- 86.96	58.71
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.118 (1.043)	97	463846	219.586	219.59	70.00- 130.00	100.00
5.119	5.118 (1.043)	99	297756			34.22- 94.22	64.19
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.244	5.244 (1.068)	119	511546	217.820	217.82	70.00- 130.00	100.00
5.244	5.244 (1.068)	117	535232			74.38- 134.38	104.63
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.496	5.496 (1.120)	57	1034572	220.131	220.13	70.00- 130.00	100.00
5.496	5.496 (1.120)	56	353084			0.00- 30.00	34.13
5.496	5.496 (1.120)	41	268067			0.00- 30.00	25.91
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	665353	221.459	221.46	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	158039			0.00- 30.00	23.75
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	529559	227.383	227.38	70.00- 130.00	100.00
5.622	5.622 (1.145)	87	136768			0.00- 30.00	25.83
5.622	5.622 (1.145)	55	207509			0.00- 30.00	39.19
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	273216	212.610	212.61	70.00- 130.00	100.00
5.636	5.636 (0.937)	64	90371			0.00- 30.00	33.08
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	243316	227.298	227.30	70.00- 130.00	100.00
5.734	5.734 (0.953)	43	372254			0.00- 30.00	152.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	92859			0.00- 30.00	38.16
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	317001	222.417	222.42	70.00- 130.00	100.00
6.252	6.252 (1.040)	130	362739			84.53- 144.53	114.43
6.252	6.252 (1.040)	97	206096			36.61- 96.61	65.01
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	423126	220.044	220.04	70.00- 130.00	100.00
6.364	6.364 (1.058)	98	224605			0.00- 30.00	53.08
6.364	6.364 (1.058)	55	297728			0.00- 30.00	70.36
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	229761	219.581	219.58	70.00- 130.00	100.00
6.574	6.574 (1.093)	62	163194			43.08- 103.08	71.03
6.560	6.574 (1.091)	41	132222			28.43- 88.43	57.55
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	167458	231.012	231.01	70.00- 130.00	100.00
6.700	6.700 (1.114)	58	105015			32.25- 92.25	62.71
6.700	6.700 (1.114)	57	33843			0.00- 30.00	20.21
104 Bromodichloromethane					CAS #: 75-27-4		
6.909	6.909 (1.149)	83	446028	220.308	220.31	70.00- 130.00	100.00
6.909	6.909 (1.149)	85	294667			36.61- 96.61	66.06
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	330794	233.297	233.30	70.00- 130.00	100.00
7.539	7.539 (1.254)	77	103330			0.55- 60.55	31.24
7.539	7.539 (1.254)	39	156751			17.59- 77.59	47.39
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.763	7.763 (1.291)	85	90068	239.083	239.08	70.00- 130.00	100.00
7.763	7.763 (1.291)	43	484234			0.00- 30.00	537.63
7.763	7.763 (1.291)	58	196385			0.00- 30.00	218.04
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	839863	210.268	210.27	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	490440			28.40- 88.40	58.40
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	332469	234.306	234.31	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	107071			1.48- 61.48	32.20
8.281	8.281 (0.890)	39	150863			15.25- 75.25	45.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	300348	218.015	218.02	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	188453			32.37- 92.37	62.74
8.463	8.463 (0.910)	83	248160			52.59- 112.59	82.62
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	479139	211.138	211.14	70.00- 130.00	100.00
8.477	8.477 (0.911)	129	346790			42.20- 102.20	72.38
8.477	8.477 (0.911)	131	335756			40.52- 100.52	70.07
120 2-Hexanone					CAS #: 591-78-6		
8.714	8.714 (0.937)	58	261222	236.960	236.96	70.00- 130.00	100.00
8.714	8.714 (0.937)	43	485560			157.20- 217.20	185.88
8.714	8.714 (0.937)	100	68217			0.00- 30.00	26.11
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	555485	226.937	226.94	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	429848			0.00- 30.00	77.38
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	508234	231.183	231.18	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	480075			64.58- 124.58	94.46
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	771344	218.884	218.88	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	244455			2.47- 62.47	31.69
9.330	9.330 (1.003)	77	379574			19.40- 79.40	49.21
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	396279	223.419	223.42	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	1156834			0.00- 30.00	291.92
131 m,p-Xylene					CAS #: 108-38-3		
9.498	9.498 (1.021)	106	500012	225.522	225.52	70.00- 130.00	100.00
9.498	9.498 (1.021)	91	929143			0.00- 30.00	185.82
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	458205	216.271	216.27	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	893098			166.95- 226.95	194.91
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	727449	238.436	238.44	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	320695			14.53- 74.53	44.08
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	535541	230.270	230.27	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	275036			20.55- 80.55	51.36
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	1355103	218.830	218.83	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	388214			0.00- 30.00	28.65
10.072	10.072 (1.083)	51	107738			0.00- 30.00	7.95
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.337	10.337 (1.111)	83	647270	220.448	220.45	70.00- 130.00	100.00
10.337	10.337 (1.111)	85	425638			36.42- 96.42	65.76
143 Propylbenzene					CAS #: 103-65-1		
10.351	10.351 (1.113)	91	1553370	214.873	214.87	70.00- 130.00	100.00
10.351	10.351 (1.113)	120	401279			0.00- 30.00	25.83
10.351	10.351 (1.113)	105	63195			0.00- 30.00	4.07
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	1420849	218.298	218.30	70.00- 130.00	100.00
10.421	10.421 (1.120)	120	454803			2.37- 62.37	32.01
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	1191123	221.519	221.52	70.00- 130.00	100.00
10.463	10.463 (1.125)	120	609395			0.00- 30.00	51.16
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	1088032	219.395	219.39	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	537541			18.64- 78.64	49.40
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	833125	209.972	209.97	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	538365			0.00- 30.00	64.62
10.883	10.883 (1.170)	111	317320			0.00- 30.00	38.09
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	870713	219.245	219.24	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	554885			0.00- 30.00	63.73
10.939	10.939 (1.176)	111	313740			0.00- 30.00	36.03
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	705697	262.160	262.16	70.00- 130.00	100.00(R)
11.023	11.023 (1.185)	126	172064			0.00- 30.00	24.38
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	799530	218.268	218.27	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	511888			34.19- 94.19	64.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	312068			9.07- 69.07	39.03
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.974 (1.287)	180	460432	216.871	216.87	70.00- 130.00	100.00
11.975	11.974 (1.287)	182	435873			64.84- 124.84	94.67
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.030	12.030 (1.293)	225	428680	217.538	217.54	70.00- 130.00	100.00
12.030	12.030 (1.293)	223	271966			31.62- 91.62	63.44
171 Naphthalene					CAS #: 91-20-3		
12.114	12.114 (1.302)	128	662896	277.302	277.30	70.00- 130.00	100.00
12.114	12.114 (1.302)	127	83153			0.00- 30.00	12.54

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050416a.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 200ppbv>200ppbv

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	305037	2.26
94 1,4-Difluorobenze	1131229	678737	1583721	1132592	0.12
125 Chlorobenzene-d5	1067777	640666	1494888	1066825	-0.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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: 04may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: ww
Data Type: MS DATA SampleType: LCS
SpikeList File: AFCEE40.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 200ppbv>200ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
7 Dichlorodifluorome	200.00	221.74	110.87	70-130
9 Freon 114	200.00	214.75	107.37	70-130
12 Chloromethane	200.00	220.54	110.27	70-130
15 Vinyl Chloride	200.00	231.46	115.73	70-130
16 1,3-Butadiene	200.00	228.20	114.10	70-130
18 Bromomethane	200.00	230.49	115.24	70-130
19 Chloroethane	200.00	220.01	110.01	70-130
23 Trichlorofluoromet	200.00	216.59	108.30	70-130
30 Ethanol	200.00	231.54	115.77	70-130
34 Freon 113	200.00	195.49	97.74	70-130
36 1,1-Dichloroethene	200.00	200.22	100.11	70-130
39 Carbon Disulfide	200.00	224.85	112.43	70-130
38 Acetone	200.00	215.90	107.95	70-130
41 2-Propanol	200.00	221.48	110.74	70-130
42 3-Chloropropene	200.00	226.29	113.14	70-130
48 Methylene Chloride	200.00	184.50	92.25	70-130
50 MTBE	200.00	224.42	112.21	70-130
52 trans-1,2-Dichloro	200.00	223.17	111.59	70-130
55 Hexane	200.00	219.69	109.85	70-130
59 1,1-Dichloroethane	200.00	214.10	107.05	70-130
60 Vinyl Acetate	200.00	222.83	111.42	70-130
68 cis-1,2-Dichloroet	200.00	214.79	107.39	70-130
70 2-Butanone	200.00	228.72	114.36	70-130
74 Tetrahydrofuran	200.00	230.84	115.42	70-130
76 Chloroform	200.00	213.37	106.69	70-130
77 Cyclohexane	200.00	218.88	109.44	70-130
78 1,1,1-Trichloroeth	200.00	219.59	109.79	70-130
79 Carbon Tetrachlori	200.00	217.82	108.91	70-130
82 2,2,4-Trimethylpen	200.00	220.13	110.07	70-130
83 Benzene	200.00	221.46	110.73	70-130
89 1,2-Dichloroethane	200.00	212.61	106.31	70-130
93 Heptane	200.00	227.30	113.65	70-130
95 Trichloroethene	200.00	222.42	111.21	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
99	1,2-Dichloropropan	200.00	219.58	109.79	70-130
102	1,4-Dioxane	200.00	231.01	115.51	70-130
104	Bromodichlorometha	200.00	220.31	110.15	70-130
108	cis-1,3-Dichloropr	200.00	233.30	116.65	70-130
109	4-Methyl-2-pentano	200.00	239.08	119.54	70-130
111	Toluene	200.00	210.27	105.13	70-130
114	trans-1,3-Dichloro	200.00	234.31	117.15	70-130
115	1,1,2-Trichloroeth	200.00	218.02	109.01	70-130
116	Tetrachloroethene	200.00	211.14	105.57	70-130
120	2-Hexanone	200.00	236.96	118.48	70-130
121	Dibromochlorometha	200.00	226.94	113.47	70-130
124	1,2-Dibromoethane	200.00	231.18	115.59	70-130
127	Chlorobenzene	200.00	218.88	109.44	70-130
128	Ethyl Benzene	200.00	223.42	111.71	70-130
131	m,p-Xylene	200.00	225.52	112.76	70-130
132	o-Xylene	200.00	216.27	108.14	70-130
134	Styrene	200.00	238.44	119.22	70-130
136	Bromoform	200.00	230.27	115.13	70-130
138	Cumene	200.00	218.83	109.41	70-130
142	1,1,2,2-Tetrachlor	200.00	220.45	110.22	70-130
143	Propylbenzene	200.00	214.87	107.44	70-130
147	4-Ethyltoluene	200.00	218.30	109.15	70-130
149	1,3,5-Trimethylben	200.00	221.52	110.76	70-130
152	1,2,4-Trimethylben	200.00	219.39	109.70	70-130
156	1,3-Dichlorobenzen	200.00	209.97	104.99	70-130
159	1,4-Dichlorobenzen	200.00	219.24	109.62	70-130
161	alpha-Chlorotoluen	200.00	262.16	131.08*	70-130
163	1,2-Dichlorobenzen	200.00	218.27	109.13	70-130
169	1,2,4-Trichloroben	200.00	216.87	108.44	70-130
170	Hexachlorobutadien	200.00	217.54	108.77	70-130
5	Propylene	200.00	209.34	104.67	70-130
13	Butane	200.00	225.18	112.59	70-130
20	Isopentane	200.00	228.98	114.49	70-130
97	Methyl Cyclohexane	200.00	220.04	110.02	70-130

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86	1,2-Dichloroethane	400.00	394.07	98.52	70-130
$ 110	Toluene-d8	400.00	404.38	101.09	70-130
$ 139	Bromofluorobenzene	400.00	407.88	101.97	70-130

Data File: /chem/msdb.i/04may10.b/b050416a.d

Date : 04-MAY-2010 16:53

Client ID: LCS

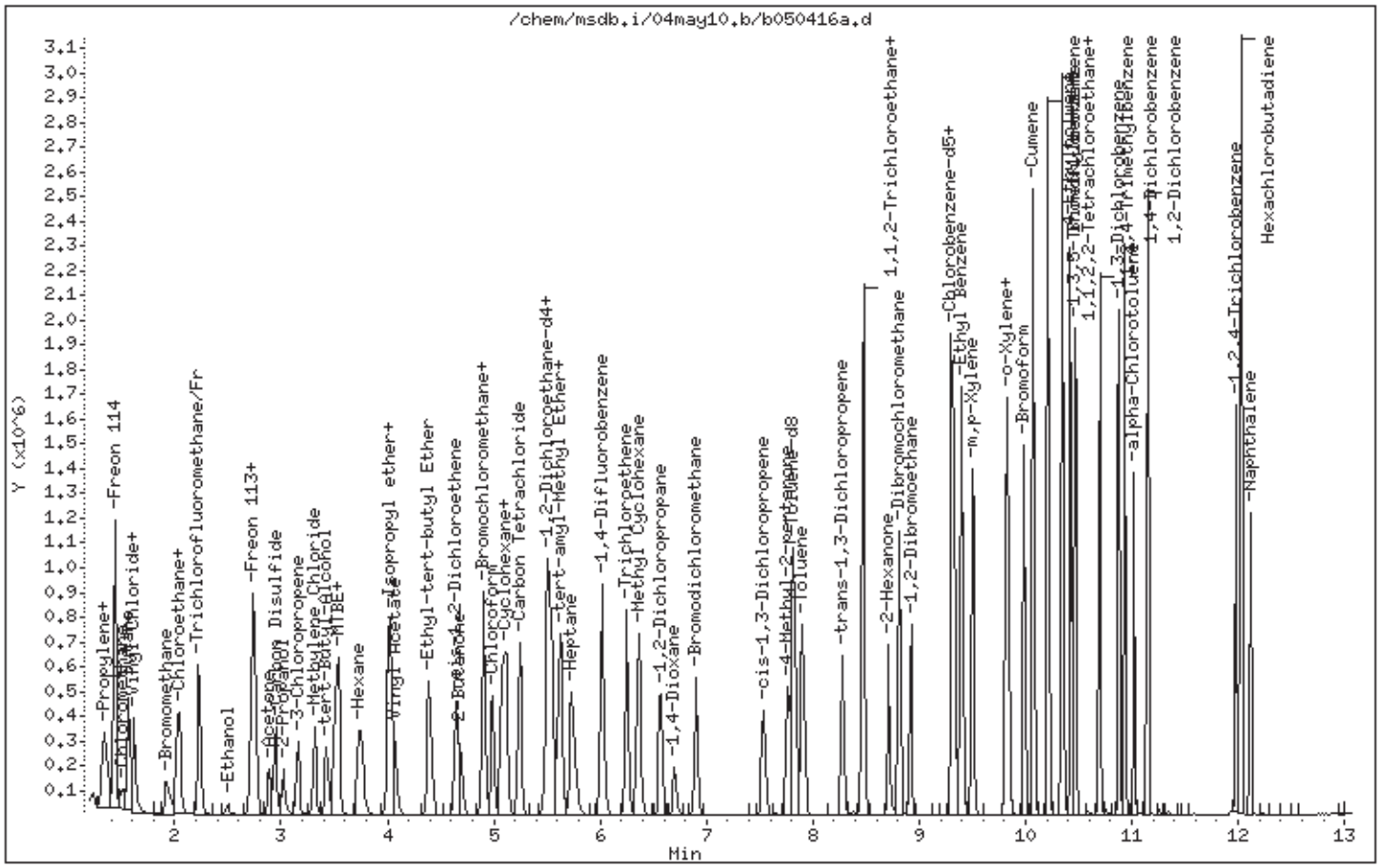
Instrument: msdb.i

Sample Info: 50mL #1936-141

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050403.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 04-MAY-2010 10:38
Operator : db Inst ID: msdb.i
Smp Info : 0.75ml #1936-139
Misc Info : 3.0ppbv (200ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:36 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 10:38 Cal File: b050403.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzene.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	257258	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	199631			47.13- 107.13	77.60
4.909	4.909 (1.000)	49	268027			73.34- 133.34	104.19
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	988566	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	136521			0.00- 43.97	13.81
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	908668	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	440562			0.00- 30.00	48.48
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	272878	400.000	408.49	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	145517			0.00- 30.00	53.33
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	944139	400.000	396.66	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	92259			0.00- 30.00	9.77

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	630502			0.00- 30.00	66.78
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.211	10.211 (1.098)	174	544776	400.000	388.86	70.00- 130.00	100.00
10.211	10.211 (1.098)	95	609026			82.64- 142.64	111.79
10.211	10.211 (1.098)	176	527194			67.24- 127.24	96.77
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	7533	3.00000	2.873	70.00- 130.00	100.00
5.510	5.510 (0.916)	77	1590			0.00- 30.00	21.11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050403.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 3.0ppbv (200ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	257258	-13.76
94 1,4-Difluorobenze	1131229	678737	1583721	988566	-12.61
125 Chlorobenzene-d5	1067777	640666	1494888	908668	-14.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050403.d

Date : 04-MAY-2010 10:38

Client ID: Level 1

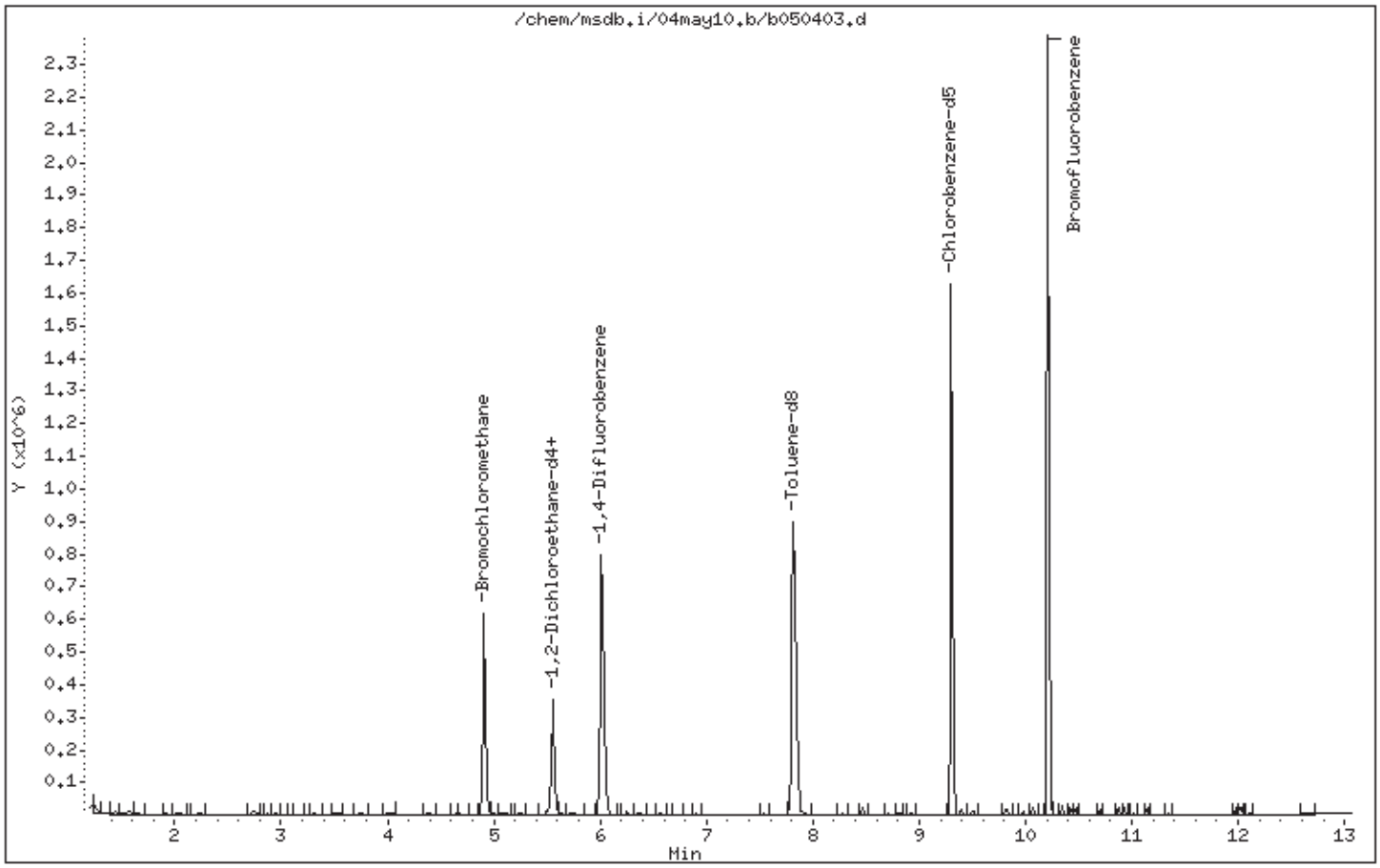
Instrument: msdb.i

Sample Info: 0.75ml #1936-139

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050404.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 04-MAY-2010 10:59
Operator : db Inst ID: msdb.i
Smp Info : 1.25ml #1936-139
Misc Info : 5.0ppbv (200ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:36 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 10:59 Cal File: b050404.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level2.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	269846	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	210748			47.13- 107.13	78.10
4.909	4.909 (1.000)	49	287808			73.34- 133.34	106.66
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1049472	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	148331			0.00- 43.97	14.13
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	968149	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	466541			0.00- 30.00	48.19
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	289220	400.000	412.76	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	155609			0.00- 30.00	53.80
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1002628	400.000	396.79	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	100534			0.00- 30.00	10.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	670643			0.00- 30.00	66.89
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	574558	400.000	384.92	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	651100			82.64- 142.64	113.32
10.212	10.212 (1.098)	176	557900			67.24- 127.24	97.10
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.341 (0.273)	85	11397	5.00000	5.494	70.00- 130.00	100.00
1.341	1.341 (0.273)	87	3724			0.00- 30.00	32.68
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	9684	5.00000	5.304	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	2653			1.72- 61.72	27.40
12 Chloromethane					CAS #: 74-87-3		
1.523	1.523 (0.310)	50	3811	5.00000	5.138	70.00- 130.00	100.00
1.523	1.523 (0.310)	52	1310			0.00- 30.00	34.37
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	3489	5.00000	4.393	70.00- 130.00	100.00(aM)
1.607	1.607 (0.327)	64	1420			0.00- 30.00	40.70
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.621 (0.330)	54	3117	5.00000	5.345	70.00- 130.00	100.00
1.635	1.635 (0.333)	39	3170			0.00- 30.00	101.70
18 Bromomethane					CAS #: 74-83-9		
1.928	1.928 (0.393)	94	3382	5.00000	4.696	70.00- 130.00	100.00(a)
1.914	1.914 (0.390)	96	3667			63.57- 123.57	108.43
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	5021	5.00000	5.444	70.00- 130.00	100.00(T)
2.040	2.040 (0.416)	57	3918			0.00- 30.00	78.03
0.000	1.000 (0.000)	72	0			0.00- 30.00	0.00
19 Chloroethane					CAS #: 75-00-3		
2.040	2.040 (0.416)	64	2321	5.00000	5.378	70.00- 130.00	100.00(T)
2.236	2.236 (0.456)	66	1553			0.00- 30.00	66.91
0.000	1.000 (0.000)	49	0			0.00- 30.00	0.00
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.236	2.236 (0.456)	101	13158	5.00000	5.193	70.00- 130.00	100.00
2.236	2.236 (0.456)	103	8036			35.14- 95.14	61.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Ethanol					CAS #: 64-17-5		
2.474	2.474 (0.504)	45	1036	5.00000	3.954	70.00- 130.00	100.00
2.474	2.474 (0.504)	43	292			0.00- 30.00	28.19
2.474	2.474 (0.504)	46	375			0.00- 30.00	36.20
34 Freon 113					CAS #: 76-13-1		
2.726	2.726 (0.555)	151	8579	5.00000	4.944	70.00- 130.00	100.00(a)
2.740	2.740 (0.558)	153	5575			34.33- 94.33	64.98
2.726	2.726 (0.555)	101	9896			86.07- 146.07	115.35
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	5871	5.00000	4.663	70.00- 130.00	100.00(a)
2.768	2.768 (0.564)	96	4463			42.00- 102.00	76.02
2.754	2.754 (0.561)	98	3313			17.00- 77.00	56.43
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	10619	5.00000	4.759	70.00- 130.00	100.00(a)
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	6888	5.00000	6.839	70.00- 130.00	100.00
3.314	3.314 (0.675)	84	5975			52.13- 112.13	86.75
3.314	3.314 (0.675)	51	2123			0.00- 30.00	30.82
50 MTBE					CAS #: 1634-04-4		
3.510	3.510 (0.715)	73	9303	5.00000	4.669	70.00- 130.00	100.00(a)
3.523	3.523 (0.718)	57	1878			0.00- 52.28	20.19
3.510	3.510 (0.715)	41	3749			0.00- 30.00	40.30
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.537	3.537 (0.721)	96	4631	5.00000	4.756	70.00- 130.00	100.00(a)
3.537	3.537 (0.721)	61	5910			87.47- 147.47	127.62
3.537	3.537 (0.721)	98	3087			0.00- 30.00	66.66
55 Hexane					CAS #: 110-54-3		
3.733	3.733 (0.761)	57	6353	5.00000	4.830	70.00- 130.00	100.00(a)
3.747	3.747 (0.763)	43	4296			0.00- 30.00	67.62
3.314	3.314 (0.675)	86	3464			0.00- 30.00	54.53
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	6928	5.00000	4.681	70.00- 130.00	100.00(a)
4.027	4.027 (0.820)	65	2382			1.02- 61.02	34.38
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	1759	5.00000	4.200	70.00- 130.00	100.00(a)
4.685	4.685 (0.954)	43	7358			348.59- 408.59	418.31
4.391	4.391 (0.895)	57	3533			0.00- 30.00	200.85

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	5827	5.00000	5.346	70.00- 130.00	100.00
4.643	4.643 (0.946)	96	5032			61.77- 121.77	86.36
4.643	4.643 (0.946)	98	3145			30.06- 90.06	53.97
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	4188	5.00000	4.646	70.00- 130.00	100.00(a)
4.895	4.895 (0.997)	71	1349			11.35- 71.35	32.21
4.895	4.895 (0.997)	72	1814			0.00- 30.00	43.31
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	8873	5.00000	4.899	70.00- 130.00	100.00(a)
4.993	4.993 (1.017)	85	5520			37.23- 97.23	62.21
77 Cyclohexane					CAS #: 110-82-7		
5.091	5.091 (1.037)	84	6774	5.00000	5.228	70.00- 130.00	100.00
5.077	5.077 (1.034)	56	6668			71.80- 131.80	98.44
5.077	5.077 (1.034)	41	4272			26.96- 86.96	63.06
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.119 (1.043)	97	8488	5.00000	4.542	70.00- 130.00	100.00(a)
5.119	5.119 (1.043)	99	5559			34.22- 94.22	65.49
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.244	5.244 (1.068)	119	9049	5.00000	4.356	70.00- 130.00	100.00(a)
5.244	5.244 (1.068)	117	9870			74.38- 134.38	109.07
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.496	5.496 (1.120)	57	21441	5.00000	5.157	70.00- 130.00	100.00
5.496	5.496 (1.120)	56	7263			0.00- 30.00	33.87
5.510	5.510 (1.123)	41	5808			0.00- 30.00	27.09
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	13974	5.00000	5.020	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	3621			0.00- 30.00	25.91
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	6073	5.00000	5.100	70.00- 130.00	100.00
5.636	5.636 (0.937)	64	2082			0.00- 30.00	34.28
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	4851	5.00000	4.890	70.00- 130.00	100.00(a)
5.734	5.734 (0.953)	43	7723			0.00- 30.00	159.20
5.748	5.748 (0.956)	100	1509			0.00- 30.00	31.11
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	6224	5.00000	4.713	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
95 Trichloroethene (continued)							
6.252	6.252 (1.040)	130	7641			84.53- 144.53	122.77
6.252	6.252 (1.040)	97	3719			36.61- 96.61	59.75
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	8633	5.00000	4.845	70.00- 130.00	100.00(aM)
6.364	6.364 (1.058)	98	4349			0.00- 30.00	50.38
6.014	6.014 (1.000)	55	2843			0.00- 30.00	32.93
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.560	6.560 (1.091)	63	4729	5.00000	4.877	70.00- 130.00	100.00(a)
6.560	6.560 (1.091)	62	3493			43.08- 103.08	73.86
6.574	6.574 (1.093)	41	3266			28.43- 88.43	69.06
104 Bromodichloromethane					CAS #: 75-27-4		
6.910	6.910 (1.149)	83	7810	5.00000	4.163	70.00- 130.00	100.00(a)
6.910	6.910 (1.149)	85	5199			36.61- 96.61	66.57
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	4935	5.00000	3.756	70.00- 130.00	100.00(a)
7.539	7.539 (1.254)	77	1454			0.55- 60.55	29.46
7.525	7.525 (1.251)	39	2616			17.59- 77.59	53.01
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.777	7.777 (1.293)	85	1135	5.00000	3.251	70.00- 130.00	100.00(a)
7.777	7.777 (1.293)	43	5983			0.00- 30.00	527.14
7.763	7.763 (1.291)	58	1666			0.00- 30.00	146.78
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	18605	5.00000	5.027	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	10479			28.40- 88.40	56.32
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	4805	5.00000	3.731	70.00- 130.00	100.00(a)
8.281	8.281 (0.890)	77	1587			1.48- 61.48	33.03
8.281	8.281 (0.890)	39	2360			15.25- 75.25	49.12
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	6048	5.00000	4.838	70.00- 130.00	100.00(a)
8.463	8.463 (0.910)	99	3771			32.37- 92.37	62.35
8.463	8.463 (0.910)	83	4939			52.59- 112.59	81.66
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	9999	5.00000	4.855	70.00- 130.00	100.00(a)
8.477	8.477 (0.911)	129	6924			42.20- 102.20	69.25
8.477	8.477 (0.911)	131	6699			40.52- 100.52	67.00

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	7821	5.00000	3.521	70.00- 130.00	100.00(a)
8.812	8.812 (0.947)	127	5579			0.00- 30.00	71.33
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	8705	5.00000	4.363	70.00- 130.00	100.00(a)
8.924	8.924 (0.959)	109	8122			64.58- 124.58	93.30
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	16904	5.00000	5.286	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	5502			2.47- 62.47	32.55
9.302	9.302 (1.000)	77	16432			19.40- 79.40	97.21
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	8104	5.00000	5.035	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	23775			0.00- 30.00	293.37
131 m,p-Xylene					CAS #: 108-38-3		
9.498	9.498 (1.021)	106	9943	5.00000	4.942	70.00- 130.00	100.00(a)
9.498	9.498 (1.021)	91	18059			0.00- 30.00	181.63
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	9081	5.00000	4.723	70.00- 130.00	100.00(a)
9.820	9.820 (1.056)	91	18122			166.95- 226.95	199.56
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	11452	5.00000	4.136	70.00- 130.00	100.00(a)
9.834	9.834 (1.057)	78	5516			14.53- 74.53	48.17
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	6705	5.00000	3.177	70.00- 130.00	100.00(a)
9.988	9.988 (1.074)	171	3531			20.55- 80.55	52.66
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	27973	5.00000	4.978	70.00- 130.00	100.00(a)
10.072	10.072 (1.083)	120	7392			0.00- 30.00	26.43
10.072	10.072 (1.083)	51	2240			0.00- 30.00	8.01
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.338	10.338 (1.111)	83	13285	5.00000	4.986	70.00- 130.00	100.00(a)
10.338	10.338 (1.111)	85	8227			36.42- 96.42	61.93
143 Propylbenzene					CAS #: 103-65-1		
10.351	10.351 (1.113)	91	33156	5.00000	5.054	70.00- 130.00	100.00
10.351	10.351 (1.113)	120	8323			0.00- 30.00	25.10
10.351	10.351 (1.113)	105	1376			0.00- 30.00	4.15

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	29397	5.00000	4.977	70.00- 130.00	100.00(a)
10.421	10.421 (1.120)	120	9946			2.37- 62.37	33.83
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	24802	5.00000	5.083	70.00- 130.00	100.00
10.477	10.477 (1.126)	120	12185			0.00- 30.00	49.13
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	22853	5.00000	5.078	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	10470			18.64- 78.64	45.81
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	20278	5.00000	5.632	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	12269			0.00- 30.00	60.50
10.883	10.883 (1.170)	111	7672			0.00- 30.00	37.83
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	20304	5.00000	5.634	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	13783			0.00- 30.00	67.88
10.939	10.939 (1.176)	111	7664			0.00- 30.00	37.75
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	7006	5.00000	2.868	70.00- 130.00	100.00(a)
11.023	11.023 (1.185)	126	1422			0.00- 30.00	20.30
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	18911	5.00000	5.689	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	12829			34.19- 94.19	67.84
11.149	11.149 (1.199)	111	7777			9.07- 69.07	41.12

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050404.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 5.0ppbv (200ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	269846	-9.54
94 1,4-Difluorobenze	1131229	678737	1583721	1049472	-7.23
125 Chlorobenzene-d5	1067777	640666	1494888	968149	-9.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050404.d

Date : 04-MAY-2010 10:59

Client ID: Level 2

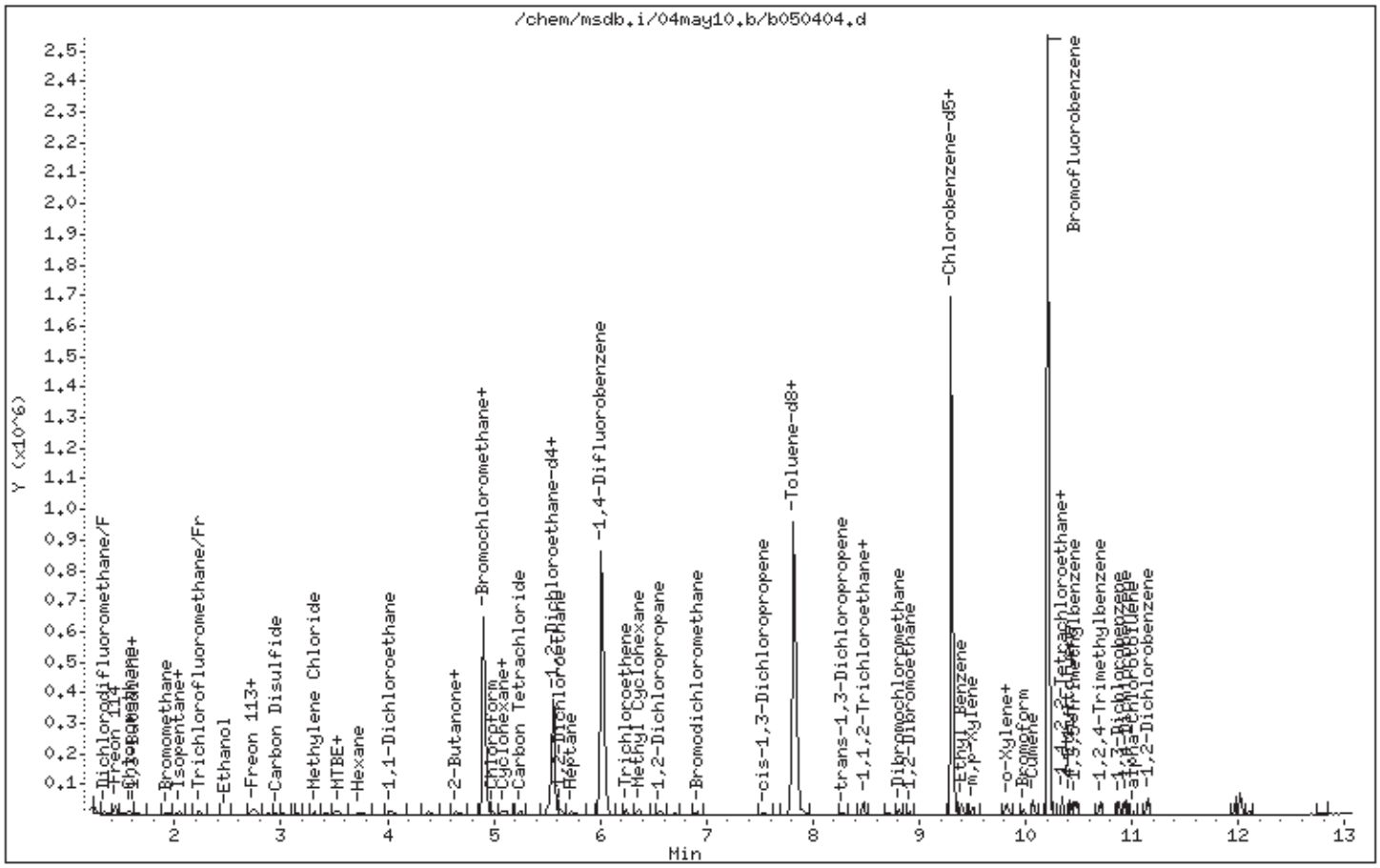
Instrument: msdb.i

Sample Info: 1.25ml #1936-139

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/13may10.b/b051313.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 13-MAY-2010 11:52
Operator : mtw Inst ID: msdb.i
Smp Info : 5ml #1936-173
Misc Info : 20ppbv (200ppbv)
Comment :
Method : /chem/msdb.i/13may10.b/b1050504c.m
Meth Date : 14-May-2010 08:43 jparker Quant Type: ISTD
Cal Date : 13-MAY-2010 11:52 Cal File: b051313.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FreonICAL.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	253508	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	196516			46.71- 106.71	77.52
4.909	4.909 (1.000)	49	259826			72.93- 132.93	102.49
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.028	6.028 (1.000)	114	948559	400.000		70.00- 130.00	100.00
6.028	6.028 (1.000)	88	133085			0.00- 44.07	14.03
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	880138	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	418169			0.00- 30.00	47.51
4 Freon134a					CAS #: 811-97-2		
1.285	1.285 (0.262)	83	10412	20.0000	19.723	70.00- 130.00	100.00(a)
1.271	1.271 (0.259)	69	21149			0.00- 30.00	203.12
6 Freon 152a					CAS #: 75-37-6		
1.313	1.313 (0.267)	65	6742	20.0000	20.207	70.00- 130.00	100.00
1.355	1.355 (0.276)	51	29857			0.00- 30.00	442.85

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
8 Freon 22					CAS #: 75-45-6		
1.355	1.355 (0.276)	67	2648	20.0000	19.358	70.00- 130.00	100.00(a)
1.355	1.355 (0.276)	51	29858			0.00- 30.00	1127.57
11 Freon142b					CAS #: 75-68-3		
1.481	1.481 (0.302)	65	23903	20.0000	19.927	70.00- 130.00	100.00
1.481	1.481 (0.302)	45	6264			0.00- 30.00	26.21
25 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
2.236	2.236 (0.456)	67	28595	20.0000	17.977	70.00- 130.00	100.00(Ta)
2.236	2.236 (0.456)	69	9848			0.00- 30.00	34.44
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00

QC Flag Legend

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

Report Date: 14-May-2010 08:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b051313.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdb.i/13may10.b/b1050504c.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 13-MAY-2010
Calibration Time: 05:01
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	280463	168278	392648	253508	-9.61
94 1,4-Difluorobenze	1028703	617222	1440184	948559	-7.79
125 Chlorobenzene-d5	958137	574882	1341392	880138	-8.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.03	0.24
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/13may10.b/b051313.d

Date : 13-MAY-2010 11:52

Client ID: Level 3

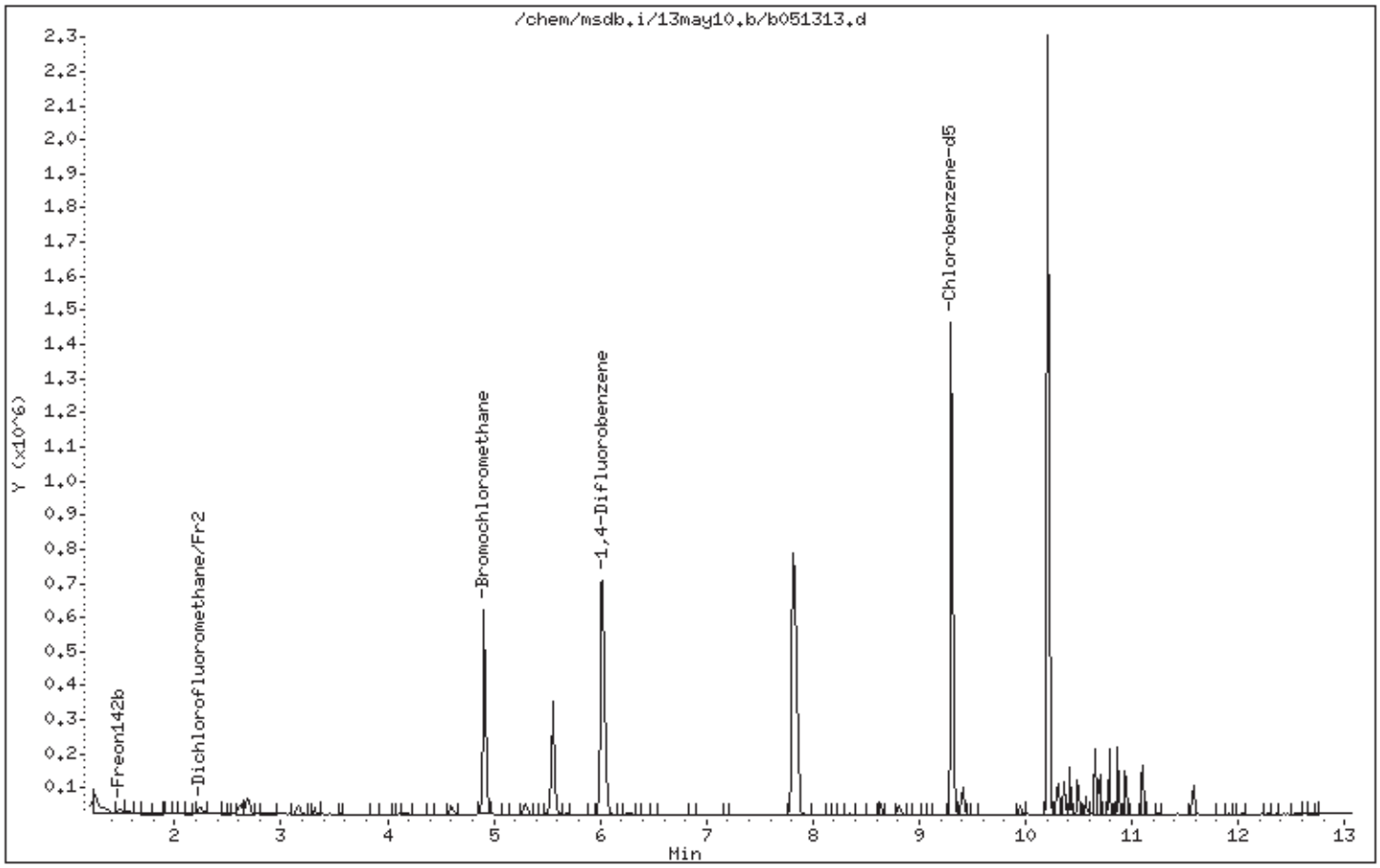
Instrument: msdb.i

Sample Info: 5ml #1936-173

Operator: mtw

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/05may10.b/b050520.d
Lab Smp Id: Level 3 Client Smp ID: Level 3
Inj Date : 06-MAY-2010 03:13
Operator : ww Inst ID: msdb.i
Smp Info : 1.0mL #1911-242
Misc Info : 1000ppbv>20ppbv, Aer Std
Comment :
Method : /chem/msdb.i/05may10.b/b1050504c.m
Meth Date : 13-May-2010 13:22 croush Quant Type: ISTD
Cal Date : 13-MAY-2010 11:52 Cal File: b051313.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Sp22.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	293901	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	228898			48.51- 108.51	77.88
4.909	4.909 (1.000)	49	300263			72.75- 132.75	102.16
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1098323	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	155595			0.00- 43.98	14.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1018349	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	493619			0.00- 30.00	48.47
26 1,3-Dichloropropane					CAS #: 142-28-9		
2.264	2.264 (0.461)	76	167	20.0000	19.221	70.00- 130.00	100.00(M)
2.278	2.278 (0.464)	41	0			258.45- 318.45	0.00
1.872	1.872 (0.381)	78	0			0.00- 30.00	0.00
43 Cyclopentene					CAS #: 142-29-0		
3.160	3.160 (0.644)	67	32615	20.0000	20.242	70.00- 130.00	100.00

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
43 Cyclopentene (continued)							
3.160	3.160 (0.644)	68	13020			0.00- 30.00	39.92
3.160	3.160 (0.644)	53	5824			0.00- 30.00	17.86
62 1-Propanol					CAS #: 71-23-8		
4.167	4.167 (0.849)	42	1741	20.0000	16.878	70.00- 130.00	100.00
4.167	4.167 (0.849)	59	2156			0.00- 30.00	123.84
4.167	4.167 (0.849)	41	1102			0.00- 30.00	63.30
69 2,2-Dichloropropane					CAS #: 594-20-7		
4.601	4.601 (0.937)	77	21413	20.0000	18.562	70.00- 130.00	100.00
4.601	4.601 (0.937)	79	7048			2.50- 62.50	32.91
4.601	4.601 (0.937)	97	4839			0.00- 30.00	22.60
80 1,1-Dichloropropene					CAS #: 563-58-6		
5.300	5.300 (1.080)	110	11134	20.0000	19.413	70.00- 130.00	100.00
5.300	5.300 (1.080)	75	27431			0.00- 30.00	246.37
87 Isobutanol					CAS #: 78-83-1		
5.510	5.510 (0.916)	43	8096	20.0000	16.103	70.00- 130.00	100.00
5.524	5.524 (0.919)	41	6812			0.00- 30.00	84.14
96 1-Butanol					CAS #: 71-36-3		
6.266	6.266 (1.042)	56	5105	20.0000	12.709	70.00- 130.00	100.00
6.266	6.266 (1.042)	41	4628			0.00- 30.00	90.66
6.266	6.266 (1.042)	43	3457			0.00- 30.00	67.72
122 Butyl Acetate					CAS #: 123-86-4		
8.812	8.812 (1.465)	56	14130	20.0000	15.886	70.00- 130.00	100.00
8.812	8.812 (1.465)	73	5433			0.00- 30.00	38.45
8.812	8.812 (1.465)	43	30397			0.00- 30.00	215.12
129 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.414	9.414 (1.012)	131	27897	20.0000	17.268	70.00- 130.00	100.00
9.414	9.414 (1.012)	117	19421			0.00- 30.00	69.62
9.414	9.414 (1.012)	95	9587			0.00- 30.00	34.37
135 2-Heptanone					CAS #: 110-43-0		
9.946	9.946 (1.069)	58	17023	20.0000	12.635	70.00- 130.00	100.00
9.946	9.946 (1.069)	43	25804			0.00- 30.00	151.58
140 Cyclohexanone					CAS #: 108-94-1		
10.197	10.197 (1.096)	55	14426	20.0000	14.156	70.00- 130.00	100.00
10.197	10.197 (1.096)	98	6716			0.00- 30.00	46.55
10.183	10.183 (1.095)	42	10057			0.00- 30.00	69.71

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
144 Bromobenzene					CAS #: 108-86-1		
10.309	10.309 (1.108)	156	42961	20.0000	18.537	70.00- 130.00	100.00
10.295	10.295 (1.107)	77	55059			97.72- 157.72	128.16
10.309	10.309 (1.108)	158	40980			0.00- 30.00	95.39
146 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.365	10.365 (1.114)	110	19687	20.0000	18.360	70.00- 130.00	100.00
10.365	10.365 (1.114)	61	10703			0.00- 30.00	54.37
10.365	10.365 (1.114)	112	12959			0.00- 30.00	65.83
150 2-Chlorotoluene					CAS #: 95-49-8		
10.421	10.421 (1.120)	126	34084	20.0000	18.170	70.00- 130.00	100.00
10.421	10.421 (1.120)	91	87491			221.94- 281.94	256.69
10.421	10.421 (1.120)	65	7439			0.00- 30.00	21.83
151 4-Chlorotoluene					CAS #: 106-43-4		
10.491	10.491 (1.128)	126	34615	20.0000	18.416	70.00- 130.00	100.00
10.491	10.491 (1.128)	91	86744			224.51- 284.51	250.60
10.491	10.491 (1.128)	63	10332			0.00- 30.00	29.85
153 tert-Butylbenzene					CAS #: 98-06-6		
10.659	10.659 (1.146)	119	118691	20.0000	19.100	70.00- 130.00	100.00
10.659	10.659 (1.146)	134	32089			0.00- 59.28	27.04
10.659	10.659 (1.146)	91	66374			0.00- 30.00	55.92
154 Pentachloroethane					CAS #: 76-01-7		
10.701	10.701 (1.150)	167	23610	20.0000	15.422	70.00- 130.00	100.00
10.701	10.701 (1.150)	117	23384			0.00- 30.00	99.04
155 sec-Butylbenzene					CAS #: 135-98-8		
10.785	10.785 (1.159)	105	160153	20.0000	17.954	70.00- 130.00	100.00
10.785	10.785 (1.159)	134	34527			0.00- 52.63	21.56
10.785	10.785 (1.159)	91	24258			0.00- 30.00	15.15
158 p-Cymene					CAS #: 99-87-6		
10.869	10.869 (1.168)	119	137464	20.0000	17.828	70.00- 130.00	100.00
10.869	10.869 (1.168)	134	39086			0.00- 58.76	28.43
10.869	10.869 (1.168)	91	30407			0.00- 30.00	22.12
160 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.953	10.953 (1.177)	120	51380	20.0000	17.907	70.00- 130.00	100.00
10.939	10.939 (1.176)	105	114270			191.18- 251.18	222.40
10.939	10.939 (1.176)	77	12057			0.00- 30.00	23.47
162 Butylbenzene					CAS #: 104-51-8		
11.107	11.107 (1.194)	134	35693	20.0000	17.855	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
162 Butylbenzene (continued)							
11.107	11.107 (1.194)	91	114841			290.05- 350.05	321.75
11.107	11.107 (1.194)	92	63064			0.00- 30.00	176.68
167 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
11.583	11.583 (1.245)	157	27130	20.0000	15.022	70.00- 130.00	100.00
11.583	11.583 (1.245)	75	19733			44.10- 104.10	72.73
11.583	11.583 (1.245)	155	20850			0.00- 30.00	76.85

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050520.d
Lab Smp Id: Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /chem/msdb.i/05may10.b/b1050504c.m
Misc Info: 1000ppbv>20ppbv, Aer Std

Calibration Date: 06-MAY-2010
Calibration Time: 00:07
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	324300	194580	454020	293901	-9.37
94 1,4-Difluorobenze	1228336	737002	1719670	1098323	-10.58
125 Chlorobenzene-d5	1125218	675131	1575305	1018349	-9.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/05may10.b/b050520.d

Date : 06-MAY-2010 03:13

Client ID: Level 3

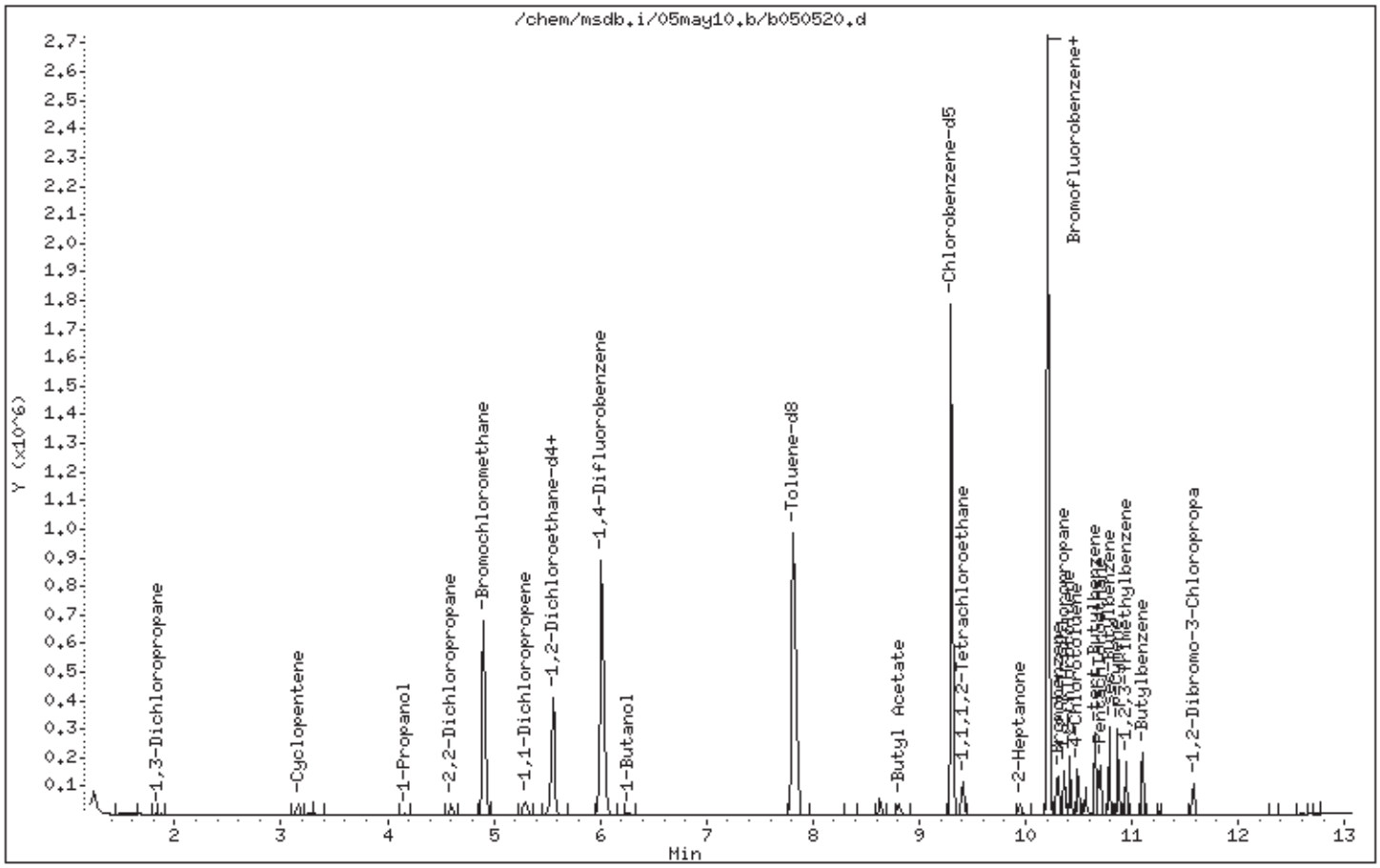
Instrument: msdb.i

Sample Info: 1.0mL #1911-242

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050405.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 04-MAY-2010 11:18
Operator : db Inst ID: msdb.i
Smp Info : 5.0ml #1936-139
Misc Info : 20ppbv (200ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 11:18 Cal File: b050405.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	257604	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	198006			47.13- 107.13	76.86
4.909	4.909 (1.000)	49	266886			73.34- 133.34	103.60
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	980366	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	138121			0.00- 43.97	14.09
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	900105	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	436842			0.00- 30.00	48.53
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.566	5.566 (1.134)	65	271655	400.000	406.12	70.00- 130.00	100.00
5.566	5.566 (1.134)	67	144804			0.00- 30.00	53.30
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	930049	400.000	394.01	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	91947			0.00- 30.00	9.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	627228			0.00- 30.00	67.44
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	541194	400.000	389.98	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	619403			82.64- 142.64	114.45
10.212	10.212 (1.098)	176	524010			67.24- 127.24	96.82
5 Propylene					CAS #: 115-07-1		
1.313	1.313 (0.267)	41	11702	20.0000	22.668	70.00- 130.00	100.00
1.327	1.327 (0.270)	42	7560			0.00- 30.00	64.60
1.299	1.299 (0.265)	39	8303			0.00- 30.00	70.95
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.341 (0.273)	85	40913	20.0000	20.658	70.00- 130.00	100.00
1.341	1.341 (0.273)	87	13496			0.00- 30.00	32.99
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	35597	20.0000	20.425	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	11262			1.72- 61.72	31.64
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	15862	20.0000	22.402	70.00- 130.00	100.00
1.523	1.523 (0.310)	52	5055			0.00- 30.00	31.87
13 Butane					CAS #: 106-97-8		
1.579	1.579 (0.322)	58	3709	20.0000	20.586	70.00- 130.00	100.00
1.579	1.579 (0.322)	43	25024			0.00- 30.00	674.68
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	16842	20.0000	22.212	70.00- 130.00	100.00
1.621	1.621 (0.330)	64	5339			0.00- 30.00	31.70
16 1,3-Butadiene					CAS #: 106-99-0		
1.635	1.635 (0.333)	54	10338	20.0000	18.570	70.00- 130.00	100.00
1.635	1.635 (0.333)	39	10857			0.00- 30.00	105.02
18 Bromomethane					CAS #: 74-83-9		
1.928	1.928 (0.393)	94	13221	20.0000	19.230	70.00- 130.00	100.00
1.928	1.928 (0.393)	96	12790			63.57- 123.57	96.74
19 Chloroethane					CAS #: 75-00-3		
2.026	2.026 (0.413)	64	8413	20.0000	20.420	70.00- 130.00	100.00
2.026	2.026 (0.413)	66	2625			0.00- 30.00	31.20
2.026	2.026 (0.413)	49	1910			0.00- 30.00	22.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	18219	20.0000	20.693	70.00- 130.00	100.00
2.040	2.040 (0.416)	57	12579			0.00- 30.00	69.04
2.040	2.040 (0.416)	72	1824			0.00- 30.00	10.01
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.236	2.236 (0.456)	101	48398	20.0000	20.010	70.00- 130.00	100.00
2.236	2.236 (0.456)	103	32090			35.14- 95.14	66.30
30 Ethanol					CAS #: 64-17-5		
2.488	2.488 (0.507)	45	4307	20.0000	17.217	70.00- 130.00	100.00(a)
2.488	2.488 (0.507)	43	1150			0.00- 30.00	26.70
2.488	2.488 (0.507)	46	1973			0.00- 30.00	45.81
34 Freon 113					CAS #: 76-13-1		
2.740	2.740 (0.558)	151	34539	20.0000	20.851	70.00- 130.00	100.00
2.740	2.740 (0.558)	153	21566			34.33- 94.33	62.44
2.740	2.740 (0.558)	101	40703			86.07- 146.07	117.85
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	24634	20.0000	20.495	70.00- 130.00	100.00
2.768	2.768 (0.564)	96	17520			42.00- 102.00	71.12
2.768	2.768 (0.564)	98	10937			17.00- 77.00	44.40
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	7327	20.0000	20.573	70.00- 130.00	100.00
2.894	2.894 (0.590)	43	22428			0.00- 30.00	306.10
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	41374	20.0000	19.423	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.020 (0.615)	45	16857	20.0000	16.089	70.00- 130.00	100.00(a)
3.020	3.020 (0.615)	43	6433			0.00- 30.00	38.16
2.754	2.754 (0.561)	59	1011			0.00- 30.00	6.00
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	4844	20.0000	15.194	70.00- 130.00	100.00(a)
3.160	3.160 (0.644)	41	13115			0.00- 30.00	270.75
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	20627	20.0000	21.454	70.00- 130.00	100.00
3.314	3.314 (0.675)	84	17300			52.13- 112.13	83.87
3.314	3.314 (0.675)	51	5840			0.00- 30.00	28.31
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.426	3.426 (0.698)	59	17898	20.0000	16.168	70.00- 130.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
49 tert-Butyl-Alcohol (continued)							
3.426	3.426 (0.698)	41	9464			0.00- 30.00	52.88
3.426	3.426 (0.698)	57	2086			0.00- 30.00	11.65
50 MTBE					CAS #: 1634-04-4		
3.524	3.524 (0.718)	73	34405	20.0000	18.087	70.00- 130.00	100.00
3.510	3.510 (0.715)	57	8449			0.00- 52.28	24.56
3.510	3.510 (0.715)	41	12268			0.00- 30.00	35.66
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.552	3.552 (0.724)	96	19873	20.0000	21.379	70.00- 130.00	100.00
3.552	3.552 (0.724)	61	22000			87.47- 147.47	110.70
3.552	3.552 (0.724)	98	11755			0.00- 30.00	59.15
55 Hexane					CAS #: 110-54-3		
3.747	3.747 (0.763)	57	25461	20.0000	20.278	70.00- 130.00	100.00
3.747	3.747 (0.763)	43	16680			0.00- 30.00	65.51
3.747	3.747 (0.763)	86	5251			0.00- 30.00	20.62
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	50112	20.0000	18.340	70.00- 130.00	100.00
4.013	4.013 (0.818)	87	14650			0.00- 30.00	29.23
4.013	4.013 (0.818)	59	6477			0.00- 30.00	12.93
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	28359	20.0000	20.071	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	8883			1.02- 61.02	31.32
60 Vinyl Acetate					CAS #: 108-05-4		
4.069	4.069 (0.829)	86	2950	20.0000	14.918	70.00- 130.00	100.00
4.083	4.083 (0.832)	43	31732			0.00- 30.00	1075.66
4.069	4.069 (0.829)	42	3377			0.00- 30.00	114.47
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	38200	20.0000	16.999	70.00- 130.00	100.00
4.405	4.405 (0.897)	87	17853			0.00- 30.00	46.74
4.391	4.391 (0.895)	41	12185			0.00- 30.00	31.90
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	19949	20.0000	19.174	70.00- 130.00	100.00
4.657	4.657 (0.949)	96	19215			61.77- 121.77	96.32
4.643	4.643 (0.946)	98	12814			30.06- 90.06	64.23
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	7828	20.0000	19.579	70.00- 130.00	100.00
4.699	4.699 (0.957)	43	28503			348.59- 408.59	364.12

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.713	4.713 (0.960)	57	2024			0.00- 30.00	25.86
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	16225	20.0000	18.854	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	6359			11.35- 71.35	39.19
4.895	4.895 (0.997)	72	7011			0.00- 30.00	43.21
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	35572	20.0000	20.575	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	23900			37.23- 97.23	67.19
77 Cyclohexane					CAS #: 110-82-7		
5.091	5.091 (1.037)	84	24367	20.0000	19.698	70.00- 130.00	100.00
5.091	5.091 (1.037)	56	25420			71.80- 131.80	104.32
5.091	5.091 (1.037)	41	15452			26.96- 86.96	63.41
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.119 (1.043)	97	31764	20.0000	17.806	70.00- 130.00	100.00
5.119	5.119 (1.043)	99	20411			34.22- 94.22	64.26
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.245	5.245 (1.068)	119	35636	20.0000	17.968	70.00- 130.00	100.00
5.245	5.245 (1.068)	117	37999			74.38- 134.38	106.63
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.510	5.510 (1.123)	57	79116	20.0000	19.934	70.00- 130.00	100.00
5.510	5.510 (1.123)	56	26769			0.00- 30.00	33.84
5.496	5.496 (1.120)	41	20603			0.00- 30.00	26.04
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	52433	20.0000	20.162	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	12388			0.00- 30.00	23.63
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	34021	20.0000	17.298	70.00- 130.00	100.00
5.622	5.622 (1.145)	87	8762			0.00- 30.00	25.75
5.622	5.622 (1.145)	55	16751			0.00- 30.00	49.24
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	22363	20.0000	20.104	70.00- 130.00	100.00
5.650	5.650 (0.940)	64	6931			0.00- 30.00	30.99
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	17290	20.0000	18.660	70.00- 130.00	100.00
5.734	5.734 (0.953)	43	27684			0.00- 30.00	160.12

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	7156			0.00- 30.00	41.39
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	24346	20.0000	19.734	70.00- 130.00	100.00
6.252	6.252 (1.040)	130	27529			84.53- 144.53	113.07
6.252	6.252 (1.040)	97	16058			36.61- 96.61	65.96
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	32494	20.0000	19.522	70.00- 130.00	100.00
6.364	6.364 (1.058)	98	17379			0.00- 30.00	53.48
6.364	6.364 (1.058)	55	22654			0.00- 30.00	69.72
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	18308	20.0000	20.214	70.00- 130.00	100.00
6.574	6.574 (1.093)	62	12222			43.08- 103.08	66.76
6.574	6.574 (1.093)	41	11207			28.43- 88.43	61.21
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	11311	20.0000	18.027	70.00- 130.00	100.00(a)
6.700	6.700 (1.114)	58	6820			32.25- 92.25	60.30
6.700	6.700 (1.114)	57	2334			0.00- 30.00	20.63
104 Bromodichloromethane					CAS #: 75-27-4		
6.910	6.910 (1.149)	83	29553	20.0000	16.864	70.00- 130.00	100.00
6.910	6.910 (1.149)	85	20262			36.61- 96.61	68.56
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	20082	20.0000	16.362	70.00- 130.00	100.00
7.539	7.539 (1.254)	77	6301			0.55- 60.55	31.38
7.539	7.539 (1.254)	39	9582			17.59- 77.59	47.71
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.763	7.763 (1.291)	85	5290	20.0000	16.222	70.00- 130.00	100.00
7.763	7.763 (1.291)	43	33576			0.00- 30.00	634.71
7.763	7.763 (1.291)	58	9956			0.00- 30.00	188.20
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	70692	20.0000	20.446	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	40571			28.40- 88.40	57.39
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	17527	20.0000	14.640	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	5718			1.48- 61.48	32.62
8.281	8.281 (0.890)	39	8236			15.25- 75.25	46.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	22512	20.0000	19.368	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	14281			32.37- 92.37	63.44
8.463	8.463 (0.910)	83	18609			52.59- 112.59	82.66
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	36596	20.0000	19.113	70.00- 130.00	100.00
8.477	8.477 (0.911)	129	27324			42.20- 102.20	74.66
8.477	8.477 (0.911)	131	25755			40.52- 100.52	70.38
120 2-Hexanone					CAS #: 591-78-6		
8.715	8.715 (0.937)	58	12898	20.0000	13.867	70.00- 130.00	100.00(a)
8.715	8.715 (0.937)	43	24440			157.20- 217.20	189.49
8.715	8.715 (0.937)	100	3310			0.00- 30.00	25.66
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	33318	20.0000	16.133	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	25996			0.00- 30.00	78.02
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	35379	20.0000	19.074	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	33238			64.58- 124.58	93.95
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	60371	20.0000	20.304	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	18704			2.47- 62.47	30.98
9.330	9.330 (1.003)	77	38883			19.40- 79.40	64.41
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	28894	20.0000	19.307	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	87913			0.00- 30.00	304.26
131 m,p-Xylene					CAS #: 108-38-3		
9.512	9.512 (1.023)	106	36484	20.0000	19.503	70.00- 130.00	100.00
9.498	9.498 (1.021)	91	67844			0.00- 30.00	185.96
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	36468	20.0000	20.401	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	68174			166.95- 226.95	186.94
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	44137	20.0000	17.146	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	21973			14.53- 74.53	49.78
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	27495	20.0000	14.012	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	14201			20.55- 80.55	51.65
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	100373	20.0000	19.211	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	29155			0.00- 30.00	29.05
10.072	10.072 (1.083)	51	8401			0.00- 30.00	8.37
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.338	10.338 (1.111)	83	47055	20.0000	18.994	70.00- 130.00	100.00
10.338	10.338 (1.111)	85	30650			36.42- 96.42	65.14
143 Propylbenzene					CAS #: 103-65-1		
10.352	10.352 (1.113)	91	123217	20.0000	20.201	70.00- 130.00	100.00
10.352	10.352 (1.113)	120	31984			0.00- 30.00	25.96
10.352	10.352 (1.113)	105	4655			0.00- 30.00	3.78
147 4-Ethyltoluene					CAS #: 622-96-8		
10.422	10.422 (1.120)	105	107830	20.0000	19.635	70.00- 130.00	100.00
10.422	10.422 (1.120)	120	33901			2.37- 62.37	31.44
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	92607	20.0000	20.412	70.00- 130.00	100.00
10.477	10.477 (1.126)	120	47598			0.00- 30.00	51.40
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	85765	20.0000	20.497	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	40522			18.64- 78.64	47.25
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	69646	20.0000	20.804	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	43217			0.00- 30.00	62.05
10.883	10.883 (1.170)	111	26136			0.00- 30.00	37.53
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	68940	20.0000	20.574	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	43716			0.00- 30.00	63.41
10.939	10.939 (1.176)	111	24488			0.00- 30.00	35.52
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	28904	20.0000	12.726	70.00- 130.00	100.00
11.023	11.023 (1.185)	126	6287			0.00- 30.00	21.75
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	64629	20.0000	20.911	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	40359			34.19- 94.19	62.45

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	25382			9.07- 69.07	39.27
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.975 (1.287)	180	46625	20.0000	26.029	70.00- 130.00	100.00
11.975	11.975 (1.287)	182	43562			64.84- 124.84	93.43
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.031	12.031 (1.293)	225	42058	20.0000	25.296	70.00- 130.00	100.00
12.031	12.031 (1.293)	223	26019			31.62- 91.62	61.86
171 Naphthalene					CAS #: 91-20-3		
12.115	12.115 (1.302)	128	54121	20.0000	26.833	70.00- 130.00	100.00
12.115	12.115 (1.302)	127	6736			0.00- 30.00	12.45

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: msdb.i
Lab File ID: b050405.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	257604	-13.64
94 1,4-Difluorobenze	1131229	678737	1583721	980366	-13.34
125 Chlorobenzene-d5	1067777	640666	1494888	900105	-15.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050405.d

Date : 04-MAY-2010 11:18

Client ID: Level 3

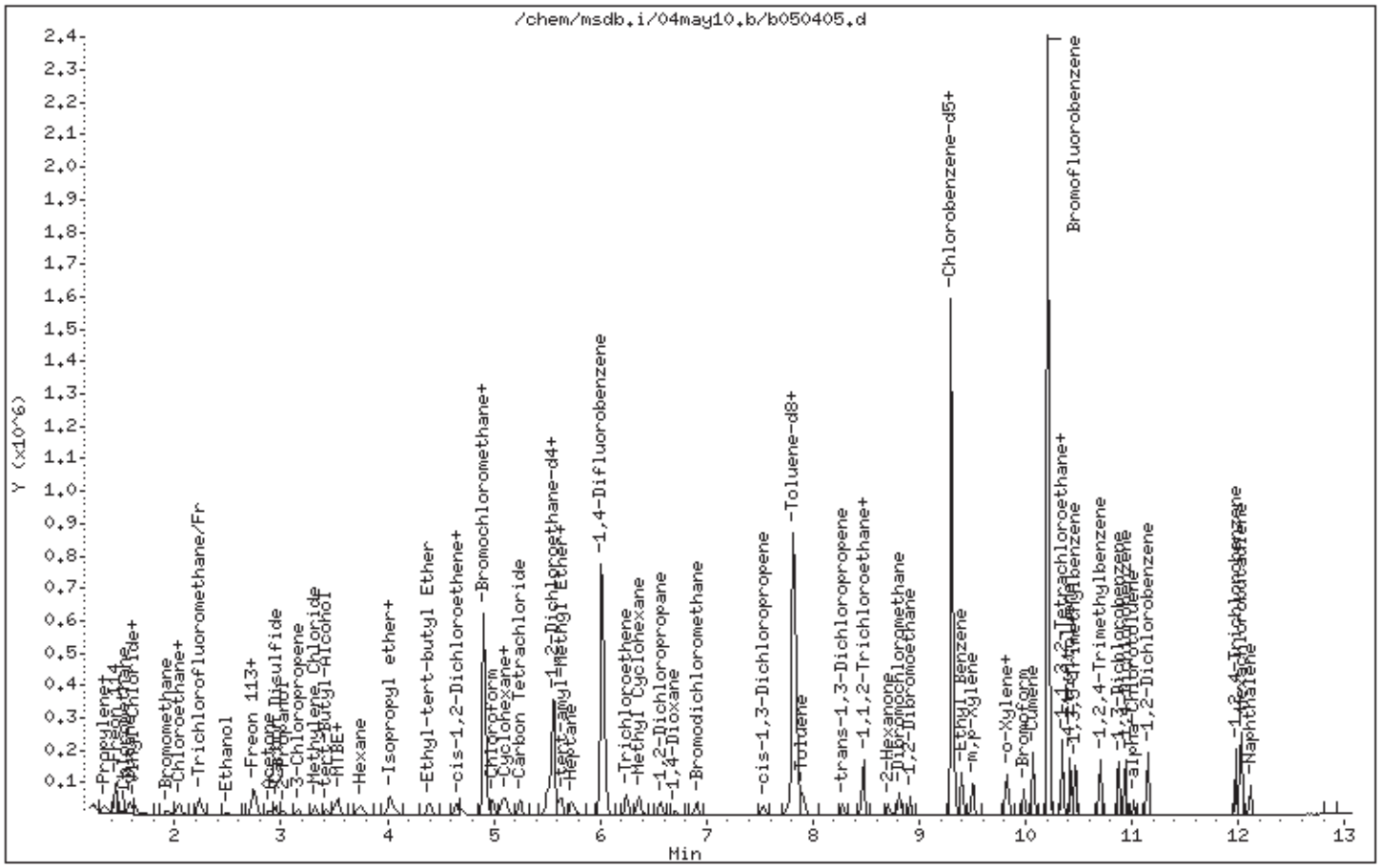
Instrument: msdb.i

Sample Info: 5.0ml #1936-139

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050406.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 04-MAY-2010 11:38
Operator : db Inst ID: msdb.i
Smp Info : 25ml #1936-139
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 11:38 Cal File: b050406.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	300081	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	233318			47.13- 107.13	77.75
4.909	4.909 (1.000)	49	308622			73.34- 133.34	102.85
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1138841	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	162350			0.00- 43.97	14.26
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1066499	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	509810			0.00- 30.00	47.80
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	312161	400.000	400.61	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	173116			0.00- 30.00	55.46
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1103365	400.000	402.39	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	107540			0.00- 30.00	9.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	789647			0.00- 30.00	71.57
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	664061	400.000	403.86	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	746221			82.64- 142.64	112.37
10.212	10.212 (1.098)	176	645523			67.24- 127.24	97.21
5 Propylene					CAS #: 115-07-1		
1.313	1.313 (0.267)	41	67216	100.000	111.78	70.00- 130.00	100.00
1.313	1.313 (0.267)	42	45450			0.00- 30.00	67.62
1.313	1.313 (0.267)	39	47825			0.00- 30.00	71.15
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.341 (0.273)	85	261227	100.000	113.23	70.00- 130.00	100.00
1.341	1.341 (0.273)	87	84150			0.00- 30.00	32.21
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	219335	100.000	108.03	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	70966			1.72- 61.72	32.36
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	91776	100.000	111.27	70.00- 130.00	100.00
1.509	1.509 (0.307)	52	29734			0.00- 30.00	32.40
13 Butane					CAS #: 106-97-8		
1.565	1.565 (0.319)	58	24040	100.000	114.54	70.00- 130.00	100.00
1.565	1.565 (0.319)	43	174447			0.00- 30.00	725.65
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	100934	100.000	114.27	70.00- 130.00	100.00
1.607	1.607 (0.327)	64	32757			0.00- 30.00	32.45
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.621 (0.330)	54	74274	100.000	114.53	70.00- 130.00	100.00
1.621	1.621 (0.330)	39	77449			0.00- 30.00	104.27
18 Bromomethane					CAS #: 74-83-9		
1.928	1.928 (0.393)	94	89469	100.000	111.71	70.00- 130.00	100.00
1.928	1.928 (0.393)	96	85248			63.57- 123.57	95.28
19 Chloroethane					CAS #: 75-00-3		
2.012	2.012 (0.410)	64	52879	100.000	110.18	70.00- 130.00	100.00
2.012	2.012 (0.410)	66	17250			0.00- 30.00	32.62
2.012	2.012 (0.410)	49	14327			0.00- 30.00	27.09

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	115591	100.000	112.70	70.00- 130.00	100.00
2.040	2.040 (0.416)	57	80459			0.00- 30.00	69.61
2.040	2.040 (0.416)	72	12130			0.00- 30.00	10.49
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.222	2.222 (0.453)	101	318575	100.000	113.07	70.00- 130.00	100.00
2.222	2.222 (0.453)	103	206992			35.14- 95.14	64.97
30 Ethanol					CAS #: 64-17-5		
2.502	2.502 (0.510)	45	30397	100.000	104.31	70.00- 130.00	100.00
2.502	2.502 (0.510)	43	7604			0.00- 30.00	25.02
2.502	2.502 (0.510)	46	12778			0.00- 30.00	42.04
34 Freon 113					CAS #: 76-13-1		
2.726	2.726 (0.555)	151	215537	100.000	111.70	70.00- 130.00	100.00
2.726	2.726 (0.555)	153	138615			34.33- 94.33	64.31
2.726	2.726 (0.555)	101	252533			86.07- 146.07	117.16
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	159562	100.000	113.96	70.00- 130.00	100.00
2.754	2.754 (0.561)	96	113624			42.00- 102.00	71.21
2.754	2.754 (0.561)	98	73795			17.00- 77.00	46.25
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	47162	100.000	113.68	70.00- 130.00	100.00
2.894	2.894 (0.590)	43	150255			0.00- 30.00	318.59
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	291237	100.000	117.37	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.020 (0.615)	45	131848	100.000	108.03	70.00- 130.00	100.00
3.020	3.020 (0.615)	43	36369			0.00- 30.00	27.58
3.020	3.020 (0.615)	59	5203			0.00- 30.00	3.95
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	41475	100.000	111.68	70.00- 130.00	100.00
3.160	3.160 (0.644)	41	100470			0.00- 30.00	242.24
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	117839	100.000	105.21	70.00- 130.00	100.00
3.314	3.314 (0.675)	84	96349			52.13- 112.13	81.76
3.314	3.314 (0.675)	51	34768			0.00- 30.00	29.50
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.426	3.426 (0.698)	59	128532	100.000	99.674	70.00- 130.00	100.00

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
49 tert-Butyl-Alcohol (continued)							
3.426	3.426 (0.698)	41	56629			0.00- 30.00	44.06
3.426	3.426 (0.698)	57	14358			0.00- 30.00	11.17
50 MTBE					CAS #: 1634-04-4		
3.510	3.510 (0.715)	73	246209	100.000	111.11	70.00- 130.00	100.00
3.510	3.510 (0.715)	57	55315			0.00- 52.28	22.47
3.510	3.510 (0.715)	41	74812			0.00- 30.00	30.39
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.538	3.538 (0.721)	96	123503	100.000	114.05	70.00- 130.00	100.00
3.538	3.538 (0.721)	61	145440			87.47- 147.47	117.76
3.538	3.538 (0.721)	98	78543			0.00- 30.00	63.60
55 Hexane					CAS #: 110-54-3		
3.747	3.747 (0.763)	57	168480	100.000	115.19	70.00- 130.00	100.00
3.747	3.747 (0.763)	43	102913			0.00- 30.00	61.08
3.747	3.747 (0.763)	86	34066			0.00- 30.00	20.22
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	339953	100.000	106.80	70.00- 130.00	100.00
4.013	4.013 (0.818)	87	104473			0.00- 30.00	30.73
4.013	4.013 (0.818)	59	38834			0.00- 30.00	11.42
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	188764	100.000	114.69	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	59658			1.02- 61.02	31.60
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	24040	100.000	104.36	70.00- 130.00	100.00
4.083	4.083 (0.832)	43	254426			0.00- 30.00	1058.34
4.083	4.083 (0.832)	42	24173			0.00- 30.00	100.55
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	275289	100.000	105.16	70.00- 130.00	100.00
4.391	4.391 (0.895)	87	131373			0.00- 30.00	47.72
4.391	4.391 (0.895)	41	68810			0.00- 30.00	25.00
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	134752	100.000	111.18	70.00- 130.00	100.00
4.643	4.643 (0.946)	96	121931			61.77- 121.77	90.49
4.643	4.643 (0.946)	98	79855			30.06- 90.06	59.26
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	53707	100.000	115.32	70.00- 130.00	100.00
4.685	4.685 (0.954)	43	200068			348.59- 408.59	372.52

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.685	4.685 (0.954)	57	16487			0.00- 30.00	30.70
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	111968	100.000	111.70	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	45563			11.35- 71.35	40.69
4.895	4.895 (0.997)	72	51271			0.00- 30.00	45.79
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	224468	100.000	111.46	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	152815			37.23- 97.23	68.08
77 Cyclohexane					CAS #: 110-82-7		
5.091	5.091 (1.037)	84	159859	100.000	110.93	70.00- 130.00	100.00
5.077	5.077 (1.034)	56	165774			71.80- 131.80	103.70
5.077	5.077 (1.034)	41	94808			26.96- 86.96	59.31
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.119 (1.043)	97	231616	100.000	111.46	70.00- 130.00	100.00
5.119	5.119 (1.043)	99	149809			34.22- 94.22	64.68
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.245	5.245 (1.068)	119	258210	100.000	111.76	70.00- 130.00	100.00
5.245	5.245 (1.068)	117	267466			74.38- 134.38	103.58
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.510	5.510 (1.123)	57	521390	100.000	112.77	70.00- 130.00	100.00
5.510	5.510 (1.123)	56	180621			0.00- 30.00	34.64
5.510	5.510 (1.123)	41	131787			0.00- 30.00	25.28
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	339255	100.000	112.30	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	78986			0.00- 30.00	23.28
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	237144	100.000	103.51	70.00- 130.00	100.00
5.622	5.622 (1.145)	87	61079			0.00- 30.00	25.76
5.622	5.622 (1.145)	55	103826			0.00- 30.00	43.78
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	145010	100.000	112.22	70.00- 130.00	100.00
5.636	5.636 (0.937)	64	45810			0.00- 30.00	31.59
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	121511	100.000	112.89	70.00- 130.00	100.00
5.734	5.734 (0.953)	43	191459			0.00- 30.00	157.57

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	47659			0.00- 30.00	39.22
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	157155	100.000	109.66	70.00- 130.00	100.00
6.252	6.252 (1.040)	130	183431			84.53- 144.53	116.72
6.252	6.252 (1.040)	97	103762			36.61- 96.61	66.03
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	215953	100.000	111.69	70.00- 130.00	100.00
6.364	6.364 (1.058)	98	116691			0.00- 30.00	54.04
6.364	6.364 (1.058)	55	149035			0.00- 30.00	69.01
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	114839	100.000	109.15	70.00- 130.00	100.00
6.574	6.574 (1.093)	62	81310			43.08- 103.08	70.80
6.574	6.574 (1.093)	41	66170			28.43- 88.43	57.62
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	80116	100.000	109.92	70.00- 130.00	100.00
6.700	6.700 (1.114)	58	49806			32.25- 92.25	62.17
6.700	6.700 (1.114)	57	16426			0.00- 30.00	20.50
104 Bromodichloromethane					CAS #: 75-27-4		
6.910	6.910 (1.149)	83	225791	100.000	110.91	70.00- 130.00	100.00
6.910	6.910 (1.149)	85	148078			36.61- 96.61	65.58
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	150981	100.000	105.90	70.00- 130.00	100.00
7.539	7.539 (1.254)	77	47486			0.55- 60.55	31.45
7.539	7.539 (1.254)	39	70818			17.59- 77.59	46.91
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.777	7.777 (1.293)	85	42987	100.000	113.48	70.00- 130.00	100.00
7.763	7.763 (1.291)	43	230465			0.00- 30.00	536.13
7.777	7.777 (1.293)	58	97585			0.00- 30.00	227.01
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	448206	100.000	111.60	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	261134			28.40- 88.40	58.26
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	153642	100.000	108.31	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	48251			1.48- 61.48	31.40
8.281	8.281 (0.890)	39	68787			15.25- 75.25	44.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	147736	100.000	107.27	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	93331			32.37- 92.37	63.17
8.463	8.463 (0.910)	83	120535			52.59- 112.59	81.59
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	242842	100.000	107.04	70.00- 130.00	100.00
8.477	8.477 (0.911)	129	178531			42.20- 102.20	73.52
8.477	8.477 (0.911)	131	169578			40.52- 100.52	69.83
120 2-Hexanone					CAS #: 591-78-6		
8.715	8.715 (0.937)	58	117922	100.000	107.00	70.00- 130.00	100.00
8.715	8.715 (0.937)	43	218776			157.20- 217.20	185.53
8.715	8.715 (0.937)	100	30852			0.00- 30.00	26.16
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	267782	100.000	109.43	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	202328			0.00- 30.00	75.56
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	247091	100.000	112.43	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	232549			64.58- 124.58	94.11
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	388848	100.000	110.38	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	126594			2.47- 62.47	32.56
9.330	9.330 (1.003)	77	201142			19.40- 79.40	51.73
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	192708	100.000	108.68	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	576693			0.00- 30.00	299.26
131 m,p-Xylene					CAS #: 108-38-3		
9.512	9.512 (1.023)	106	243690	100.000	109.94	70.00- 130.00	100.00
9.512	9.512 (1.023)	91	446932			0.00- 30.00	183.40
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	233652	100.000	110.32	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	445317			166.95- 226.95	190.59
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	342826	100.000	112.40	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	153331			14.53- 74.53	44.73
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	239585	100.000	103.05	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	124454			20.55- 80.55	51.95
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	682769	100.000	110.29	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	196199			0.00- 30.00	28.74
10.072	10.072 (1.083)	51	55485			0.00- 30.00	8.13
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.338	10.338 (1.111)	83	316173	100.000	107.72	70.00- 130.00	100.00
10.338	10.338 (1.111)	85	209477			36.42- 96.42	66.25
143 Propylbenzene					CAS #: 103-65-1		
10.352	10.352 (1.113)	91	784413	100.000	108.54	70.00- 130.00	100.00
10.352	10.352 (1.113)	120	197746			0.00- 30.00	25.21
10.352	10.352 (1.113)	105	30352			0.00- 30.00	3.87
147 4-Ethyltoluene					CAS #: 622-96-8		
10.422	10.422 (1.120)	105	708135	100.000	108.83	70.00- 130.00	100.00
10.422	10.422 (1.120)	120	228520			2.37- 62.37	32.27
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	588227	100.000	109.43	70.00- 130.00	100.00
10.463	10.463 (1.125)	120	301248			0.00- 30.00	51.21
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	534020	100.000	107.71	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	260319			18.64- 78.64	48.75
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	407574	100.000	102.75	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	264717			0.00- 30.00	64.95
10.869	10.869 (1.168)	111	156761			0.00- 30.00	38.46
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	412736	100.000	103.96	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	262082			0.00- 30.00	63.50
10.939	10.939 (1.176)	111	150690			0.00- 30.00	36.51
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	274116	100.000	101.86	70.00- 130.00	100.00
11.023	11.023 (1.185)	126	66504			0.00- 30.00	24.26
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	369618	100.000	100.93	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	242064			34.19- 94.19	65.49

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	149325			9.07- 69.07	40.40
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.975 (1.287)	180	152825	100.000	72.005	70.00- 130.00	100.00
11.975	11.975 (1.287)	182	146946			64.84- 124.84	96.15
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.017	12.017 (1.292)	225	141604	100.000	71.880	70.00- 130.00	100.00
12.017	12.017 (1.292)	223	87515			31.62- 91.62	61.80
171 Naphthalene					CAS #: 91-20-3		
12.101	12.101 (1.301)	128	172622	100.000	72.233	70.00- 130.00	100.00
12.101	12.101 (1.301)	127	21539			0.00- 30.00	12.48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050406.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	300081	0.60
94 1,4-Difluorobenze	1131229	678737	1583721	1138841	0.67
125 Chlorobenzene-d5	1067777	640666	1494888	1066499	-0.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050406.d

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Date : 04-MAY-2010 11:38

Client ID: Level 5

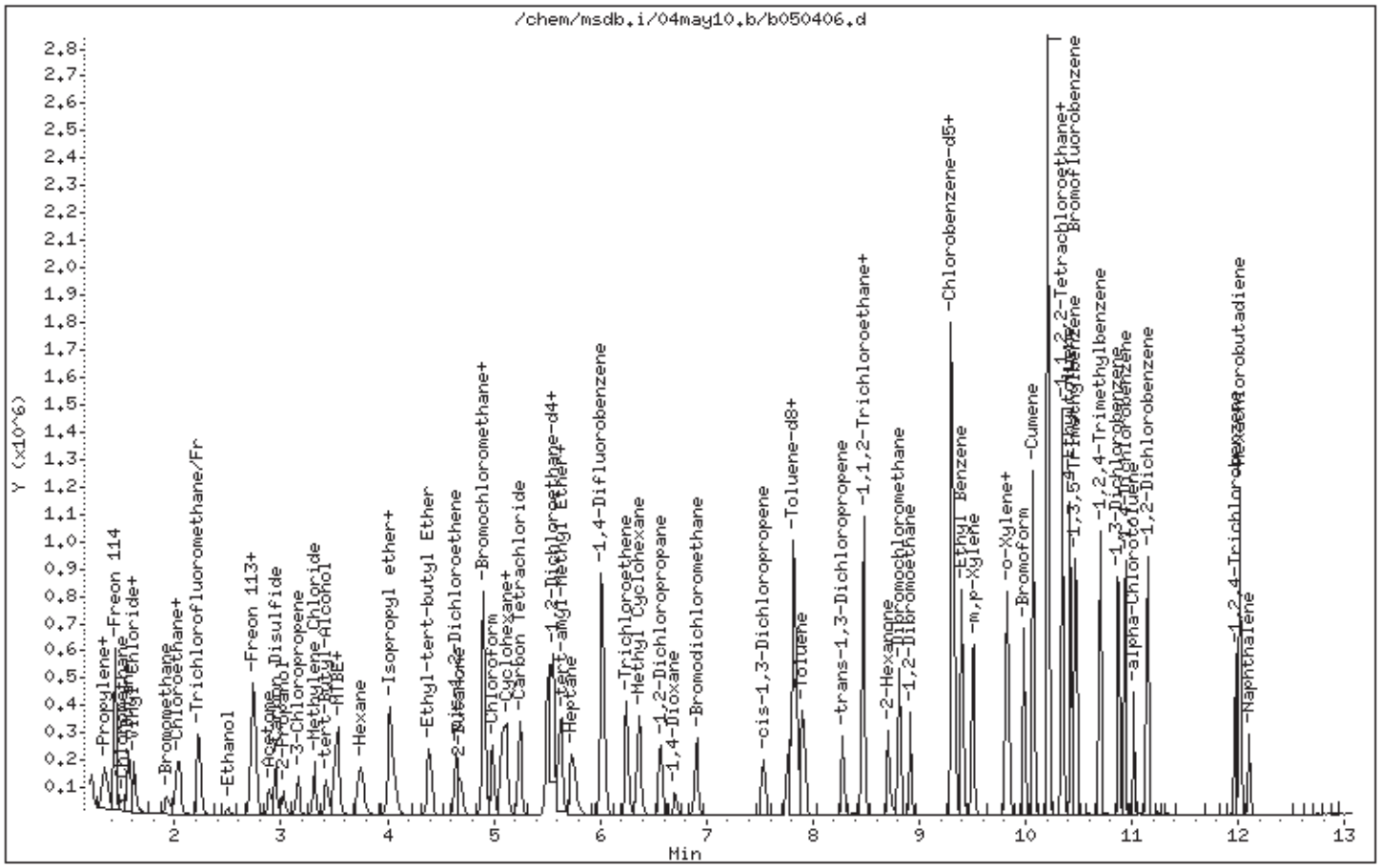
Instrument: msdb.i

Sample Info: 25ml #1936-139

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/13may10.b/b051308.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 13-MAY-2010 08:42
Operator : mtw Inst ID: msdb.i
Smp Info : 50mL #1936-173
Misc Info : 200ppbv
Comment :
Method : /chem/msdb.i/13may10.b/b1050504c.m
Meth Date : 14-May-2010 08:43 jparker Quant Type: ISTD
Cal Date : 13-MAY-2010 08:42 Cal File: b051308.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FreonICAL.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	266510	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	205743			47.20- 107.20	77.20
4.895	4.895 (1.000)	49	276249			73.65- 133.65	103.65
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	994245	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	139931			0.00- 44.07	14.07
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	929362	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	445829			17.97- 77.97	47.97
4 Freon134a					CAS #: 811-97-2		
1.271	1.271 (0.259)	83	129290	200.000	232.97	80.00- 120.00	100.00
1.257	1.257 (0.256)	69	160137			93.86- 153.86	123.86
6 Freon 152a					CAS #: 75-37-6		
1.313	1.313 (0.267)	65	75206	200.000	214.41	80.00- 120.00	100.00
1.355	1.355 (0.276)	51	354673			441.60- 501.60	471.60

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
8 Freon 22					CAS #: 75-45-6		
1.355	1.355 (0.276)	67	32280	200.000	224.46	80.00- 120.00	100.00
1.355	1.355 (0.276)	51	353028			1063.64-1123.64	1093.64
11 Freon142b					CAS #: 75-68-3		
1.467	1.467 (0.299)	65	288267	200.000	228.59	80.00- 120.00	100.00
1.467	1.467 (0.299)	45	75752			0.00- 56.28	26.28
25 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
2.222	2.222 (0.453)	67	381591	200.000	228.20	80.00- 120.00	100.00
2.222	2.222 (0.453)	69	123186			2.28- 62.28	32.28
1.872	1.872 (0.381)	35	5423			0.00- 31.42	1.42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b051308.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdb.i/13may10.b/b1050504c.m
Misc Info: 200ppbv

Calibration Date: 13-MAY-2010
Calibration Time: 08:42
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	280463	168278	392648	266510	-4.97
94 1,4-Difluorobenze	1028703	617222	1440184	994245	-3.35
125 Chlorobenzene-d5	958137	574882	1341392	929362	-3.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/13may10.b/b051308.d

Date : 13-MAY-2010 08:42

Client ID: Level 6

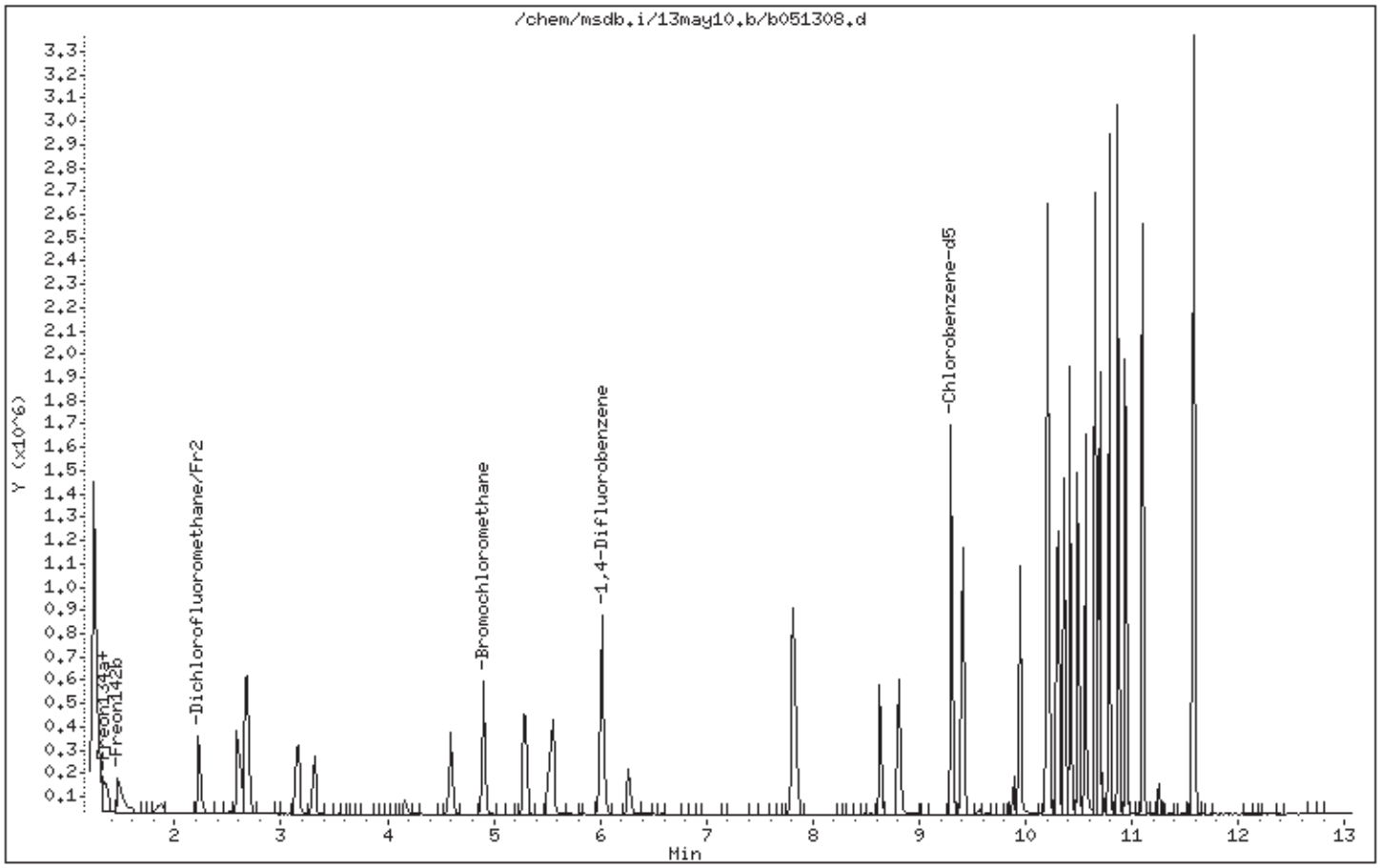
Instrument: msdb.i

Sample Info: 50mL #1936-173

Operator: mtw

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/05may10.b/b050516.d
Lab Smp Id: Level 6 Client Smp ID: Level 6
Inj Date : 06-MAY-2010 00:07
Operator : ww Inst ID: msdb.i
Smp Info : 10mL #1911-242
Misc Info : 1000ppbv>200ppbv, Aer Std
Comment :
Method : /chem/msdb.i/05may10.b/b1050504c.m
Meth Date : 13-May-2010 13:16 croush Quant Type: ISTD
Cal Date : 13-MAY-2010 08:42 Cal File: b051308.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Sp22.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	324300	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	254624			48.51- 108.51	78.51
4.909	4.909 (1.000)	49	333216			72.75- 132.75	102.75
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1228336	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	171767			0.00- 43.98	13.98
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1125218	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	540623			18.05- 78.05	48.05
26 1,3-Dichloropropane					CAS #: 142-28-9		
2.278	2.278 (0.464)	76	1992	200.000	200.00	80.00- 120.00	100.00
2.278	2.278 (0.464)	41	5746			258.45- 318.45	288.45
1.872	1.872 (0.381)	78	2495			95.25- 155.25	125.25
43 Cyclopentene					CAS #: 142-29-0		
3.174	3.174 (0.647)	67	351259	200.000	200.00	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
43 Cyclopentene (continued)							
3.174	3.174 (0.647)	68	139520			9.72- 69.72	39.72
3.160	3.160 (0.644)	53	63143			0.00- 47.98	17.98
62 1-Propanol					CAS #: 71-23-8		
4.167	4.167 (0.849)	42	26318	200.000	200.00	80.00- 120.00	100.00
4.167	4.167 (0.849)	59	29453			81.91- 141.91	111.91
4.167	4.167 (0.849)	41	17005			34.61- 94.61	64.61
69 2,2-Dichloropropane					CAS #: 594-20-7		
4.601	4.601 (0.937)	77	272896	200.000	200.00	80.00- 120.00	100.00
4.601	4.601 (0.937)	79	88682			2.50- 62.50	32.50
4.601	4.601 (0.937)	97	60917			0.00- 52.32	22.32
80 1,1-Dichloropropene					CAS #: 563-58-6		
5.300	5.300 (1.080)	110	130283	200.000	200.00	80.00- 120.00	100.00
5.300	5.300 (1.080)	75	316417			212.87- 272.87	242.87
87 Isobutanol					CAS #: 78-83-1		
5.524	5.524 (0.919)	43	134364	200.000	200.00	80.00- 120.00	100.00
5.524	5.524 (0.919)	41	105741			48.70- 108.70	78.70
96 1-Butanol					CAS #: 71-36-3		
6.266	6.266 (1.042)	56	122601	200.000	200.00	80.00- 120.00	100.00
6.266	6.266 (1.042)	41	91764			44.85- 104.85	74.85
6.266	6.266 (1.042)	43	72558			29.18- 89.18	59.18
122 Butyl Acetate					CAS #: 123-86-4		
8.812	8.812 (1.465)	56	239877	200.000	200.00	80.00- 120.00	100.00
8.812	8.812 (1.465)	73	102074			12.55- 72.55	42.55
8.812	8.812 (1.465)	43	562208			204.37- 264.37	234.37
129 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.414	9.414 (1.012)	131	405767	200.000	200.00	80.00- 120.00	100.00
9.414	9.414 (1.012)	117	259915			34.06- 94.06	64.06
9.414	9.414 (1.012)	95	137149			3.80- 63.80	33.80
135 2-Heptanone					CAS #: 110-43-0		
9.946	9.946 (1.069)	58	407359	200.000	200.00	80.00- 120.00	100.00
9.946	9.946 (1.069)	43	626475			123.79- 183.79	153.79
140 Cyclohexanone					CAS #: 108-94-1		
10.183	10.183 (1.095)	55	290990	200.000	200.00	80.00- 120.00	100.00
10.197	10.197 (1.096)	98	151903			22.20- 82.20	52.20
10.183	10.183 (1.095)	42	202516			39.60- 99.60	69.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
144 Bromobenzene					CAS #: 108-86-1		
10.309	10.309 (1.108)	156	549636	200.000	200.00	80.00- 120.00	100.00
10.295	10.295 (1.107)	77	701984			97.72- 157.72	127.72
10.309	10.309 (1.108)	158	532720			66.92- 126.92	96.92
146 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.365	10.365 (1.114)	110	256403	200.000	200.00	80.00- 120.00	100.00
10.365	10.365 (1.114)	61	140139			24.66- 84.66	54.66
10.365	10.365 (1.114)	112	167504			35.33- 95.33	65.33
150 2-Chlorotoluene					CAS #: 95-49-8		
10.421	10.421 (1.120)	126	452459	200.000	200.00	80.00- 120.00	100.00
10.421	10.421 (1.120)	91	1139935			221.94- 281.94	251.94
10.421	10.421 (1.120)	65	91505			0.00- 50.22	20.22
151 4-Chlorotoluene					CAS #: 106-43-4		
10.505	10.505 (1.129)	126	448286	200.000	200.00	80.00- 120.00	100.00
10.491	10.491 (1.128)	91	1140924			224.51- 284.51	254.51
10.491	10.491 (1.128)	63	132797			0.00- 59.62	29.62
153 tert-Butylbenzene					CAS #: 98-06-6		
10.659	10.659 (1.146)	119	1435065	200.000	200.00	80.00- 120.00	100.00
10.659	10.659 (1.146)	134	420138			0.00- 59.28	29.28
10.659	10.659 (1.146)	91	848181			29.10- 89.10	59.10
154 Pentachloroethane					CAS #: 76-01-7		
10.701	10.701 (1.150)	167	415736	200.000	200.00	80.00- 120.00	100.00
10.701	10.701 (1.150)	117	392220			64.34- 124.34	94.34
155 sec-Butylbenzene					CAS #: 135-98-8		
10.785	10.785 (1.159)	105	2172836	200.000	200.00	80.00- 120.00	100.00
10.785	10.785 (1.159)	134	491645			0.00- 52.63	22.63
10.785	10.785 (1.159)	91	322501			0.00- 44.84	14.84
158 p-Cymene					CAS #: 99-87-6		
10.869	10.869 (1.168)	119	1889020	200.000	200.00	80.00- 120.00	100.00
10.869	10.869 (1.168)	134	543259			0.00- 58.76	28.76
10.869	10.869 (1.168)	91	398940			0.00- 51.12	21.12
160 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.939	10.939 (1.176)	120	700402	200.000	200.00	80.00- 120.00	100.00
10.939	10.939 (1.176)	105	1549128			191.18- 251.18	221.18
10.939	10.939 (1.176)	77	170958			0.00- 54.41	24.41
162 Butylbenzene					CAS #: 104-51-8		
11.107	11.107 (1.194)	134	489161	200.000	200.00	80.00- 120.00	100.00

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
162 Butylbenzene (continued)							
11.093	11.093 (1.193)	91	1565577			290.05- 350.05	320.05
11.093	11.093 (1.193)	92	857961			145.39- 205.39	175.39
167 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
11.569	11.569 (1.244)	157	498418	200.000	200.00	80.00- 120.00	100.00
11.569	11.569 (1.244)	75	369337			44.10- 104.10	74.10
11.569	11.569 (1.244)	155	391617			48.57- 108.57	78.57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050516.d
Lab Smp Id: Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /chem/msdb.i/05may10.b/b1050504c.m
Misc Info: 1000ppbv>200ppbv, Aer Std

Calibration Date: 06-MAY-2010
Calibration Time: 00:07
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	324300	194580	454020	324300	0.00
94 1,4-Difluorobenze	1228336	737002	1719670	1228336	0.00
125 Chlorobenzene-d5	1125218	675131	1575305	1125218	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/05may10.b/b050516.d

Date : 06-MAY-2010 00:07

Client ID: Level 6

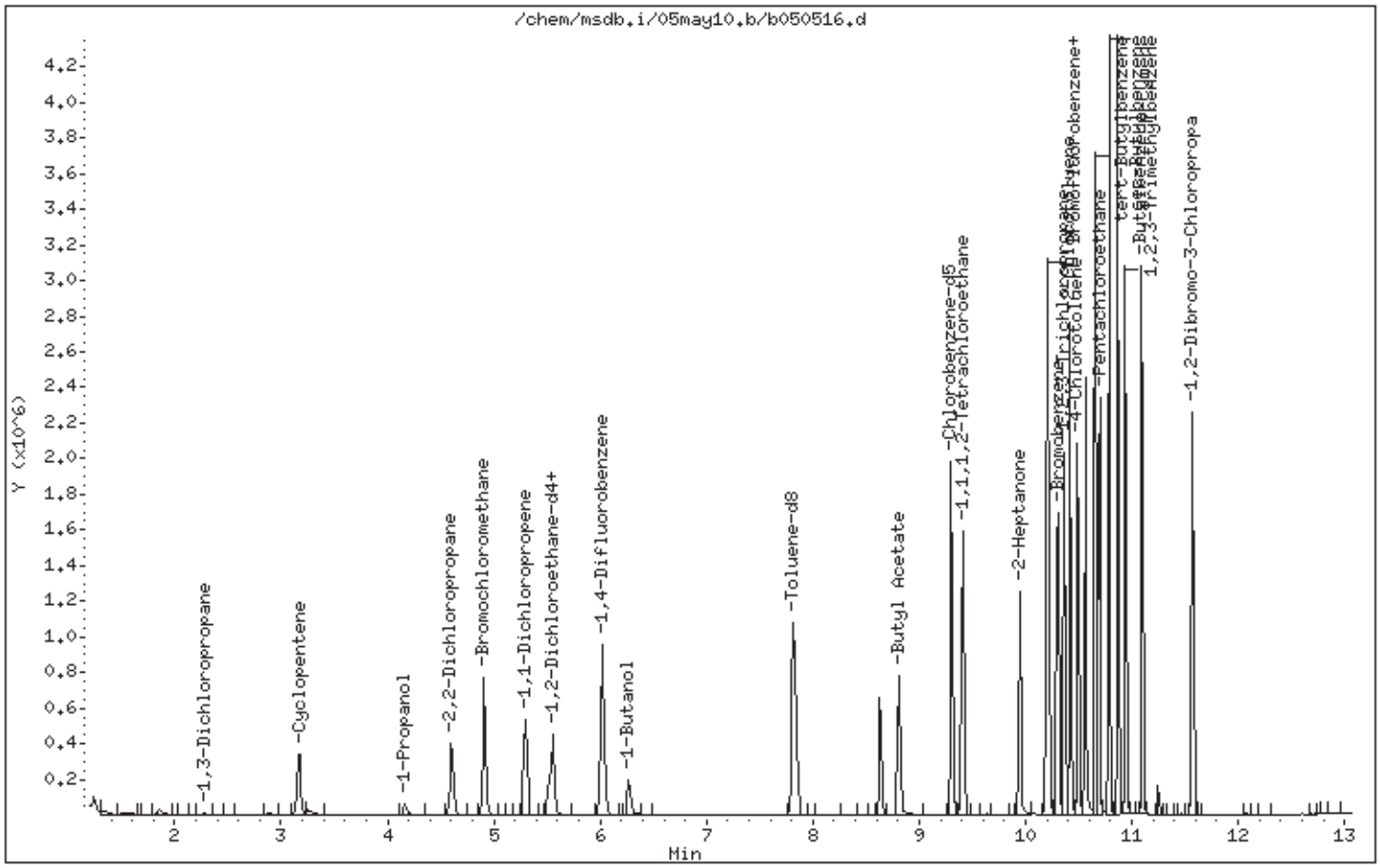
Instrument: msdb.i

Sample Info: 10mL #1911-242

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050407.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 04-MAY-2010 11:58
Operator : db Inst ID: msdb.i
Smp Info : 50ml #1936-139
Misc Info : 200ppbv (200ppbv)
Comment :
Method : /chem/msdb.i/13may10.b/b1050504c.m
Meth Date : 13-May-2010 13:31 croush Quant Type: ISTD
Cal Date : 13-MAY-2010 08:42 Cal File: b051308.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	298298	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	230092			47.13- 107.13	77.13
4.909	4.909 (1.000)	49	308253			73.34- 133.34	103.34
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1131229	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	158058			0.00- 43.97	13.97
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1067777	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	514745			18.21- 78.21	48.21
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	310745	400.000	401.18	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	174055			26.01- 86.01	56.01
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1087755	400.000	399.37	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	108200			0.00- 39.95	9.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	811336			44.59- 104.59	74.59
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	660540	400.000	401.24	80.00- 120.00	100.00
10.212	10.212 (1.098)	95	744019			82.64- 142.64	112.64
10.212	10.212 (1.098)	176	642292			67.24- 127.24	97.24
5 Propylene					CAS #: 115-07-1		
1.313	1.313 (0.267)	41	126249	200.000	211.20	80.00- 120.00	100.00
1.313	1.313 (0.267)	42	82804			35.59- 95.59	65.59
1.313	1.313 (0.267)	39	90827			41.94- 101.94	71.94
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.341 (0.273)	85	482046	200.000	210.20	80.00- 120.00	100.00
1.341	1.341 (0.273)	87	158895			2.96- 62.96	32.96
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	414972	200.000	205.62	80.00- 120.00	100.00
1.439	1.439 (0.293)	137	131630			1.72- 61.72	31.72
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	170031	200.000	207.38	80.00- 120.00	100.00
1.509	1.509 (0.307)	52	52677			0.98- 60.98	30.98
13 Butane					CAS #: 106-97-8		
1.565	1.565 (0.319)	58	45248	200.000	216.87	80.00- 120.00	100.00
1.565	1.565 (0.319)	43	321211			679.89- 739.89	709.89
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	188380	200.000	214.55	80.00- 120.00	100.00
1.607	1.607 (0.327)	64	61055			2.41- 62.41	32.41
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.621 (0.330)	54	130436	200.000	202.34	80.00- 120.00	100.00
1.621	1.621 (0.330)	39	136660			74.77- 134.77	104.77
18 Bromomethane					CAS #: 74-83-9		
1.929	1.929 (0.393)	94	171802	200.000	215.79	80.00- 120.00	100.00
1.929	1.929 (0.393)	96	160755			63.57- 123.57	93.57
19 Chloroethane					CAS #: 75-00-3		
2.012	2.012 (0.410)	64	100434	200.000	210.52	80.00- 120.00	100.00
2.012	2.012 (0.410)	66	30688			0.56- 60.56	30.56
2.012	2.012 (0.410)	49	25687			0.00- 55.58	25.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	216873	200.000	212.72	80.00- 120.00	100.00
2.040	2.040 (0.416)	57	148612			38.52- 98.52	68.52
2.040	2.040 (0.416)	72	19734			0.00- 39.10	9.10
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.222	2.222 (0.453)	101	588685	200.000	210.19	80.00- 120.00	100.00
2.222	2.222 (0.453)	103	383445			35.14- 95.14	65.14
30 Ethanol					CAS #: 64-17-5		
2.502	2.502 (0.510)	45	68241	200.000	235.58	80.00- 120.00	100.00
2.502	2.502 (0.510)	43	16798			0.00- 54.62	24.62
2.502	2.502 (0.510)	46	29393			13.07- 73.07	43.07
34 Freon 113					CAS #: 76-13-1		
2.726	2.726 (0.555)	151	406822	200.000	212.09	80.00- 120.00	100.00
2.726	2.726 (0.555)	153	261726			34.33- 94.33	64.33
2.726	2.726 (0.555)	101	472216			86.07- 146.07	116.07
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	300719	200.000	216.06	80.00- 120.00	100.00
2.754	2.754 (0.561)	96	216528			42.00- 102.00	72.00
2.754	2.754 (0.561)	98	141330			17.00- 77.00	47.00
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	87513	200.000	212.20	80.00- 120.00	100.00
2.894	2.894 (0.590)	43	282899			293.27- 353.27	323.27
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	553560	200.000	224.42	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.020 (0.615)	45	260151	200.000	214.43	80.00- 120.00	100.00
3.020	3.020 (0.615)	43	63541			0.00- 54.42	24.42
3.034	3.034 (0.618)	59	10358			0.00- 33.98	3.98
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	79728	200.000	215.97	80.00- 120.00	100.00
3.160	3.160 (0.644)	41	193478			212.67- 272.67	242.67
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	219500	200.000	197.15	80.00- 120.00	100.00
3.314	3.314 (0.675)	84	180274			52.13- 112.13	82.13
3.314	3.314 (0.675)	51	64429			0.00- 59.35	29.35
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.426	3.426 (0.698)	59	260944	200.000	203.57	80.00- 120.00	100.00

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET	RANGE	RATIO
49 tert-Butyl-Alcohol (continued)								
3.426	3.426 (0.698)	41	105658			10.49-	70.49	40.49
3.426	3.426 (0.698)	57	28799			0.00-	41.04	11.04
50 MTBE					CAS #: 1634-04-4			
3.510	3.510 (0.715)	73	478390	200.000	217.18	80.00-	120.00	100.00
3.510	3.510 (0.715)	57	106602			0.00-	52.28	22.28
3.510	3.510 (0.715)	41	135504			0.00-	58.33	28.33
52 trans-1,2-Dichloroethene					CAS #: 156-60-5			
3.538	3.538 (0.721)	96	231861	200.000	215.40	80.00-	120.00	100.00
3.538	3.538 (0.721)	61	272372			87.47-	147.47	117.47
3.538	3.538 (0.721)	98	148985			34.26-	94.26	64.26
55 Hexane					CAS #: 110-54-3			
3.747	3.747 (0.763)	57	311836	200.000	214.48	80.00-	120.00	100.00
3.747	3.747 (0.763)	43	195713			32.76-	92.76	62.76
3.747	3.747 (0.763)	86	65742			0.00-	51.08	21.08
58 Isopropyl ether					CAS #: 108-20-3			
4.013	4.013 (0.818)	45	646380	200.000	204.29	80.00-	120.00	100.00
4.027	4.027 (0.820)	87	200483			1.02-	61.02	31.02
4.027	4.027 (0.820)	59	76548			0.00-	41.84	11.84
59 1,1-Dichloroethane					CAS #: 75-34-3			
4.027	4.027 (0.820)	63	358921	200.000	219.37	80.00-	120.00	100.00
4.027	4.027 (0.820)	65	111338			1.02-	61.02	31.02
60 Vinyl Acetate					CAS #: 108-05-4			
4.083	4.083 (0.832)	86	50437	200.000	220.27	80.00-	120.00	100.00
4.083	4.083 (0.832)	43	504177			969.62-	1029.62	999.62
4.083	4.083 (0.832)	42	48085			65.34-	125.34	95.34
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3			
4.391	4.391 (0.895)	59	527621	200.000	202.76	80.00-	120.00	100.00
4.391	4.391 (0.895)	87	249629			17.31-	77.31	47.31
4.391	4.391 (0.895)	41	128170			0.00-	54.29	24.29
68 cis-1,2-Dichloroethene					CAS #: 156-59-2			
4.643	4.643 (0.946)	61	254873	200.000	211.55	80.00-	120.00	100.00
4.643	4.643 (0.946)	96	233909			61.77-	121.77	91.77
4.643	4.643 (0.946)	98	153078			30.06-	90.06	60.06
70 2-Butanone					CAS #: 78-93-3			
4.685	4.685 (0.954)	72	101588	200.000	219.42	80.00-	120.00	100.00
4.685	4.685 (0.954)	43	384605			348.59-	408.59	378.59

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.685	4.685 (0.954)	57	30300			0.00- 59.83	29.83
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	215943	200.000	216.71	80.00- 120.00	100.00
4.895	4.895 (0.997)	71	89299			11.35- 71.35	41.35
4.895	4.895 (0.997)	72	91453			12.35- 72.35	42.35
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	424927	200.000	212.25	80.00- 120.00	100.00
4.993	4.993 (1.017)	85	285662			37.23- 97.23	67.23
77 Cyclohexane					CAS #: 110-82-7		
5.091	5.091 (1.037)	84	305637	200.000	213.36	80.00- 120.00	100.00
5.077	5.077 (1.034)	56	311143			71.80- 131.80	101.80
5.077	5.077 (1.034)	41	174099			26.96- 86.96	56.96
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.119 (1.043)	97	449330	200.000	217.52	80.00- 120.00	100.00
5.119	5.119 (1.043)	99	288544			34.22- 94.22	64.22
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.245	5.245 (1.068)	119	498188	200.000	216.92	80.00- 120.00	100.00
5.245	5.245 (1.068)	117	519989			74.38- 134.38	104.38
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.510	5.510 (1.123)	57	977878	200.000	212.77	80.00- 120.00	100.00
5.510	5.510 (1.123)	56	331615			3.91- 63.91	33.91
5.510	5.510 (1.123)	41	247189			0.00- 55.28	25.28
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	632870	200.000	210.90	80.00- 120.00	100.00
5.524	5.524 (0.919)	77	151066			0.00- 53.87	23.87
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	462844	200.000	203.23	80.00- 120.00	100.00
5.622	5.622 (1.145)	87	122219			0.00- 56.41	26.41
5.622	5.622 (1.145)	55	190705			11.20- 71.20	41.20
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	265762	200.000	207.06	80.00- 120.00	100.00
5.636	5.636 (0.937)	64	86884			2.69- 62.69	32.69
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	225320	200.000	210.74	80.00- 120.00	100.00
5.734	5.734 (0.953)	43	351709			126.09- 186.09	156.09

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	89419			9.69- 69.69	39.69
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	298372	200.000	209.60	80.00- 120.00	100.00
6.252	6.252 (1.040)	130	341731			84.53- 144.53	114.53
6.252	6.252 (1.040)	97	198754			36.61- 96.61	66.61
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	402961	200.000	209.81	80.00- 120.00	100.00
6.364	6.364 (1.058)	98	215669			23.52- 83.52	53.52
6.364	6.364 (1.058)	55	280686			39.66- 99.66	69.66
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	214322	200.000	205.07	80.00- 120.00	100.00
6.574	6.574 (1.093)	62	156633			43.08- 103.08	73.08
6.574	6.574 (1.093)	41	125231			28.43- 88.43	58.43
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	154101	200.000	212.84	80.00- 120.00	100.00
6.700	6.700 (1.114)	58	95922			32.25- 92.25	62.25
6.700	6.700 (1.114)	57	30541			0.00- 49.82	19.82
104 Bromodichloromethane					CAS #: 75-27-4		
6.910	6.910 (1.149)	83	435792	200.000	215.51	80.00- 120.00	100.00
6.910	6.910 (1.149)	85	290297			36.61- 96.61	66.61
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	309867	200.000	218.80	80.00- 120.00	100.00
7.539	7.539 (1.254)	77	94674			0.55- 60.55	30.55
7.539	7.539 (1.254)	39	147461			17.59- 77.59	47.59
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.777	7.777 (1.293)	85	86194	200.000	229.08	80.00- 120.00	100.00(H)
7.763	7.763 (1.291)	43	453530			496.17- 556.17	526.17
7.763	7.763 (1.291)	58	186182			186.00- 246.00	216.00
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	838601	200.000	210.20	80.00- 120.00	100.00
7.903	7.903 (1.314)	92	489724			28.40- 88.40	58.40
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	311810	200.000	219.55	80.00- 120.00	100.00
8.281	8.281 (0.890)	77	98171			1.48- 61.48	31.48
8.281	8.281 (0.890)	39	141079			15.25- 75.25	45.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	285884	200.000	207.33	80.00- 120.00	100.00
8.463	8.463 (0.910)	99	178319			32.37- 92.37	62.37
8.463	8.463 (0.910)	83	236114			52.59- 112.59	82.59
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	455369	200.000	200.48	80.00- 120.00	100.00
8.477	8.477 (0.911)	129	328779			42.20- 102.20	72.20
8.477	8.477 (0.911)	131	321121			40.52- 100.52	70.52
120 2-Hexanone					CAS #: 591-78-6		
8.715	8.715 (0.937)	58	234746	200.000	212.75	80.00- 120.00	100.00
8.715	8.715 (0.937)	43	439446			157.20- 217.20	187.20
8.715	8.715 (0.937)	100	62063			0.00- 56.44	26.44
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	530467	200.000	216.52	80.00- 120.00	100.00
8.812	8.812 (0.947)	127	409700			47.23- 107.23	77.23
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	472723	200.000	214.84	80.00- 120.00	100.00
8.924	8.924 (0.959)	109	447091			64.58- 124.58	94.58
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	724887	200.000	205.52	80.00- 120.00	100.00
9.330	9.330 (1.003)	114	235377			2.47- 62.47	32.47
9.330	9.330 (1.003)	77	358095			19.40- 79.40	49.40
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	369620	200.000	208.20	80.00- 120.00	100.00
9.400	9.400 (1.011)	91	1081728			262.66- 322.66	292.66
131 m,p-Xylene					CAS #: 108-38-3		
9.512	9.512 (1.023)	106	456344	200.000	205.64	80.00- 120.00	100.00
9.512	9.512 (1.023)	91	853599			157.05- 217.05	187.05
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	432430	200.000	203.92	80.00- 120.00	100.00
9.820	9.820 (1.056)	91	851691			166.95- 226.95	196.95
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	671773	200.000	219.99	80.00- 120.00	100.00
9.834	9.834 (1.057)	78	299125			14.53- 74.53	44.53
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	507160	200.000	217.87	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	256368			20.55- 80.55	50.55
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	1285663	200.000	207.43	80.00- 120.00	100.00
10.072	10.072 (1.083)	120	364644			0.00- 58.36	28.36
10.072	10.072 (1.083)	51	104198			0.00- 38.10	8.10
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.338	10.338 (1.111)	83	592791	200.000	201.71	80.00- 120.00	100.00
10.338	10.338 (1.111)	85	393717			36.42- 96.42	66.42
143 Propylbenzene					CAS #: 103-65-1		
10.352	10.352 (1.113)	91	1467702	200.000	202.84	80.00- 120.00	100.00
10.352	10.352 (1.113)	120	385474			0.00- 56.26	26.26
10.352	10.352 (1.113)	105	58797			0.00- 34.01	4.01
147 4-Ethyltoluene					CAS #: 622-96-8		
10.422	10.422 (1.120)	105	1334064	200.000	204.78	80.00- 120.00	100.00
10.422	10.422 (1.120)	120	431796			2.37- 62.37	32.37
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.464	10.464 (1.125)	105	1105015	200.000	205.32	80.00- 120.00	100.00
10.464	10.464 (1.125)	120	564304			21.07- 81.07	51.07
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	991217	200.000	199.69	80.00- 120.00	100.00
10.701	10.701 (1.150)	120	482124			18.64- 78.64	48.64
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	768698	200.000	193.56	80.00- 120.00	100.00
10.883	10.883 (1.170)	148	486400			33.28- 93.28	63.28
10.869	10.869 (1.168)	111	292983			8.11- 68.11	38.11
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	762769	200.000	191.89	80.00- 120.00	100.00
10.939	10.939 (1.176)	148	490199			34.27- 94.27	64.27
10.939	10.939 (1.176)	111	283272			7.14- 67.14	37.14
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	610207	200.000	226.48	80.00- 120.00	100.00
11.023	11.023 (1.185)	126	146451			0.00- 54.00	24.00
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	689710	200.000	188.12	80.00- 120.00	100.00
11.149	11.149 (1.199)	148	442731			34.19- 94.19	64.19

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	269471			9.07- 69.07	39.07
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.975 (1.287)	180	363530	200.000	171.08	80.00- 120.00	100.00
11.975	11.975 (1.287)	182	344778			64.84- 124.84	94.84
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.017	12.017 (1.292)	225	316369	200.000	160.40	80.00- 120.00	100.00
12.017	12.017 (1.292)	223	194959			31.62- 91.62	61.62
171 Naphthalene					CAS #: 91-20-3		
12.101	12.101 (1.301)	128	462066	200.000	193.12	80.00- 120.00	100.00
12.101	12.101 (1.301)	127	56162			0.00- 42.15	12.15

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050407.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/13may10.b/b1050504c.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	241363	144818	337908	298298	23.59
94 1,4-Difluorobenze	895837	537502	1254172	1131229	26.28
125 Chlorobenzene-d5	842536	505522	1179550	1067777	26.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050407.d

Date : 04-MAY-2010 11:58

Client ID: Level 6

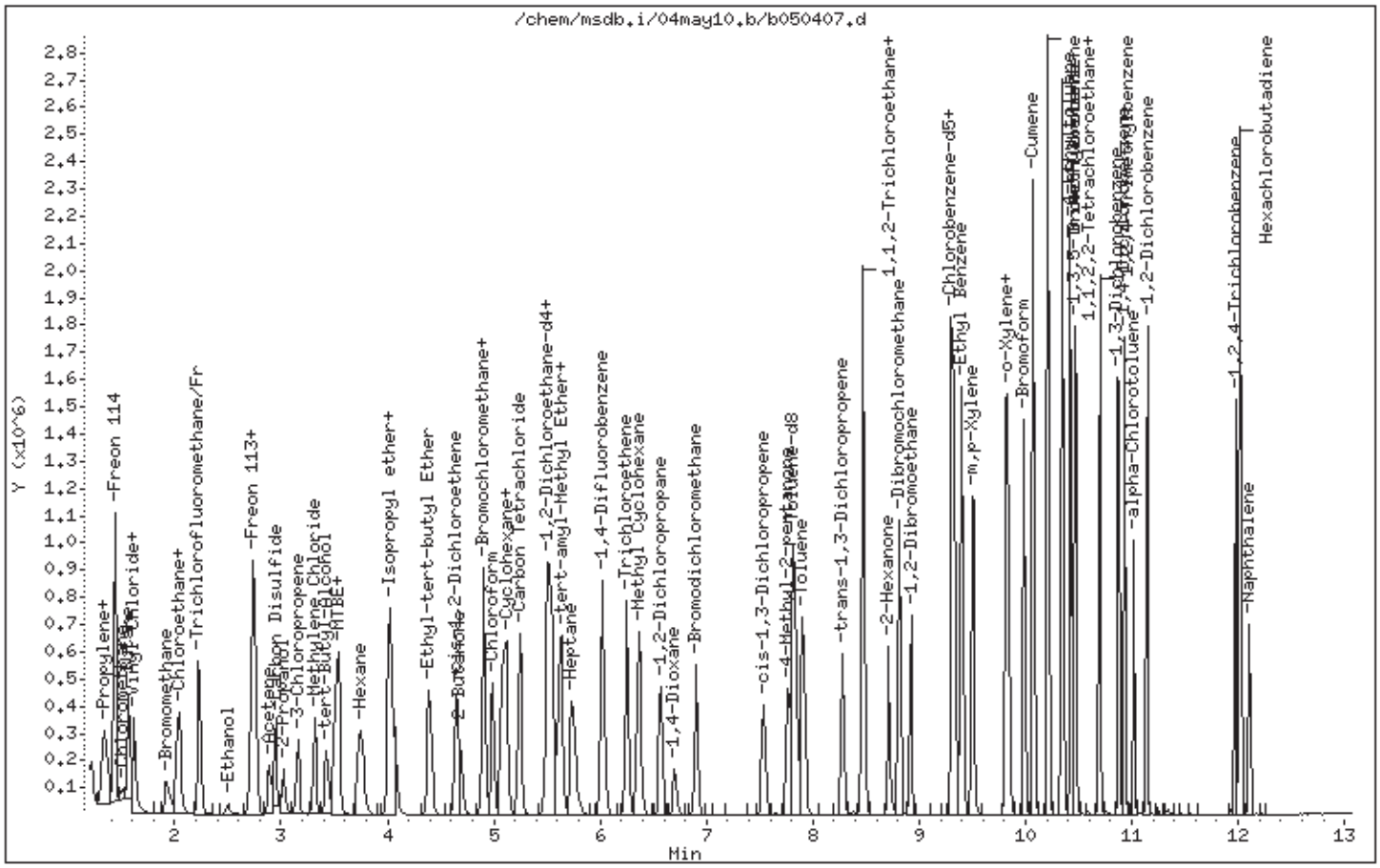
Instrument: msdb.i

Sample Info: 50ml #1936-139

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050412.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 04-MAY-2010 14:42
Operator : db Inst ID: msdb.i
Smp Info : 25ml #1936-110
Misc Info : 500ppbv (1000ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 14:42 Cal File: b050412.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OxyNcrv.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	333972	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	258513			47.13- 107.13	77.41
4.909	4.909 (1.000)	49	340592			73.34- 133.34	101.98
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1250957	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	175581			0.00- 43.97	14.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1149026	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	549202			0.00- 30.00	47.80
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.425	3.425 (0.698)	59	803026	500.000	559.54	70.00- 130.00	100.00
3.425	3.425 (0.698)	41	279855			0.00- 30.00	34.85
3.425	3.425 (0.698)	57	86047			0.00- 30.00	10.72
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	1820011	500.000	513.78	70.00- 130.00	100.00

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
58 Isopropyl ether (continued)							
4.013	4.013 (0.818)	87	538413			0.00- 30.00	29.58
4.013	4.013 (0.818)	59	204927			0.00- 30.00	11.26
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	1566017	500.000	537.52	70.00- 130.00	100.00
4.391	4.391 (0.895)	87	736220			0.00- 30.00	47.01
4.391	4.391 (0.895)	41	328337			0.00- 30.00	20.97
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	1368567	500.000	536.72	70.00- 130.00	100.00
5.622	5.622 (1.145)	87	349527			0.00- 30.00	25.54
5.622	5.622 (1.145)	55	473407			0.00- 30.00	34.59
171 Naphthalene					CAS #: 91-20-3		
12.114	12.114 (1.302)	128	1436187	500.000	557.80	70.00- 130.00	100.00
12.114	12.114 (1.302)	127	184565			0.00- 30.00	12.85

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050412.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 500ppbv (1000ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	333972	11.96
94 1,4-Difluorobenze	1131229	678737	1583721	1250957	10.58
125 Chlorobenzene-d5	1067777	640666	1494888	1149026	7.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050412.d

Date : 04-MAY-2010 14:42

Client ID: Level 7

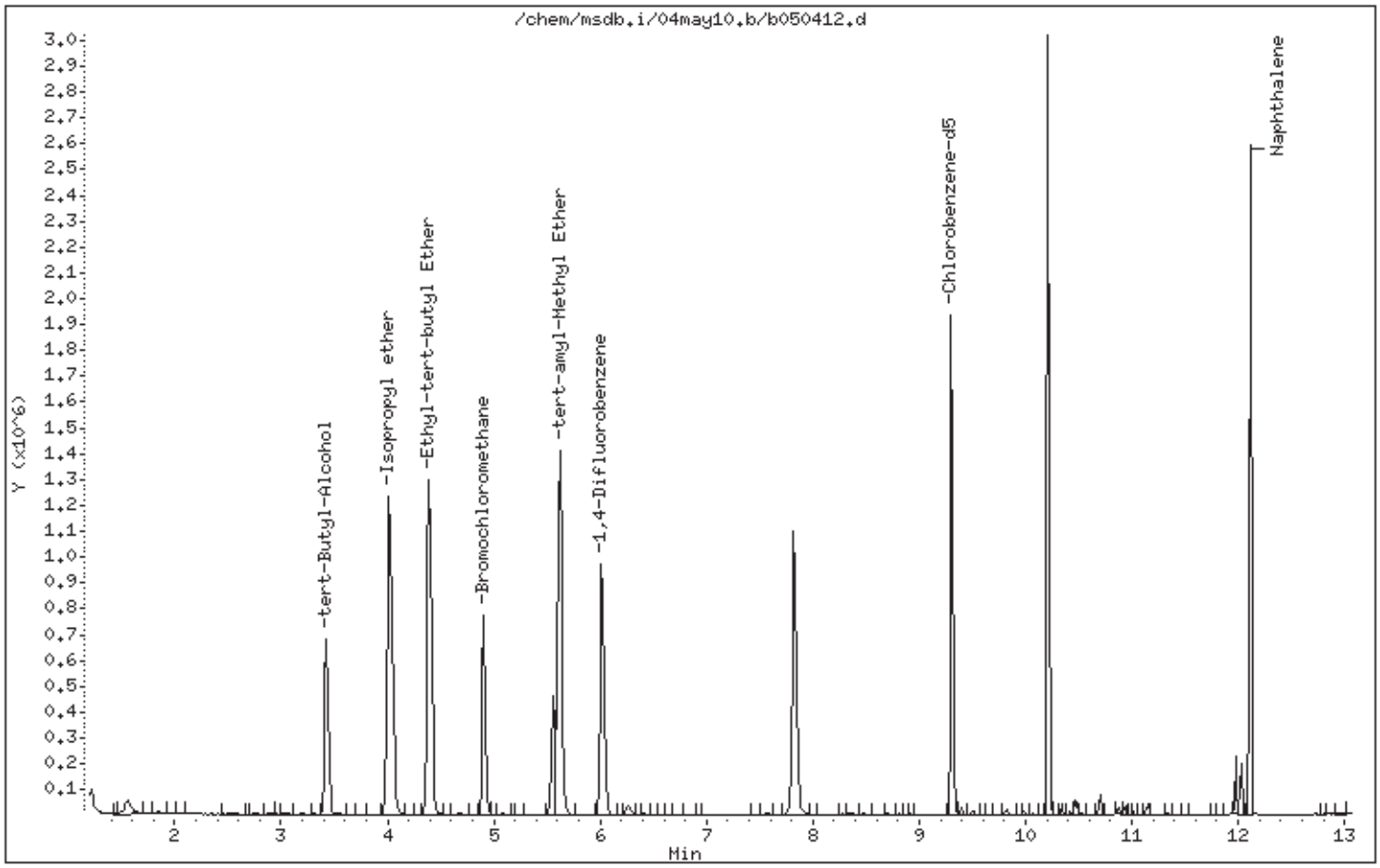
Instrument: msdb.i

Sample Info: 25ml #1936-110

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050408.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 04-MAY-2010 12:19
Operator : db Inst ID: msdb.i
Smp Info : 5.0ml #1968-5
Misc Info : 500ppbv (5000ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 14:42 Cal File: b050412.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09high.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	280517	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	214245			47.13- 107.13	76.38
4.909	4.909 (1.000)	49	283737			73.34- 133.34	101.15
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.028	6.028 (1.000)	114	1038406	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	146385			0.00- 43.97	14.10
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	981858	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	467504			0.00- 30.00	47.61
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	286688	400.000	393.58	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	165033			0.00- 30.00	57.57
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.297)	98	1009740	400.000	403.86	70.00- 130.00	100.00
7.819	7.819 (1.297)	70	98658			0.00- 30.00	9.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.297)	100	715831			0.00- 30.00	70.89
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.211	10.211 (1.098)	174	611991	400.000	404.28	70.00- 130.00	100.00
10.211	10.211 (1.098)	95	682761			82.64- 142.64	111.56
10.211	10.211 (1.098)	176	602330			67.24- 127.24	98.42
5 Propylene					CAS #: 115-07-1		
1.313	1.313 (0.267)	41	246064	500.000	437.72	70.00- 130.00	100.00
1.313	1.313 (0.267)	42	163045			0.00- 30.00	66.26
1.313	1.313 (0.267)	39	176226			0.00- 30.00	71.62
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.341 (0.273)	85	939556	500.000	435.67	70.00- 130.00	100.00
1.341	1.341 (0.273)	87	307221			0.00- 30.00	32.70
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	859360	500.000	452.80	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	272851			1.72- 61.72	31.75
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	334793	500.000	434.21	70.00- 130.00	100.00
1.509	1.509 (0.307)	52	105024			0.00- 30.00	31.37
13 Butane					CAS #: 106-97-8		
1.579	1.579 (0.322)	58	83780	500.000	427.01	70.00- 130.00	100.00
1.579	1.579 (0.322)	43	560541			0.00- 30.00	669.06
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	371088	500.000	449.43	70.00- 130.00	100.00
1.607	1.607 (0.327)	64	115479			0.00- 30.00	31.12
16 1,3-Butadiene					CAS #: 106-99-0		
1.635	1.635 (0.333)	54	275690	500.000	454.78	70.00- 130.00	100.00
1.621	1.621 (0.330)	39	294076			0.00- 30.00	106.67
18 Bromomethane					CAS #: 74-83-9		
1.928	1.928 (0.393)	94	340811	500.000	455.21	70.00- 130.00	100.00
1.928	1.928 (0.393)	96	328925			63.57- 123.57	96.51
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	429218	500.000	447.69	70.00- 130.00	100.00
2.040	2.040 (0.416)	57	298632			0.00- 30.00	69.58
2.054	2.054 (0.418)	72	41770			0.00- 30.00	9.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
19 Chloroethane					CAS #: 75-00-3		
2.040	2.040 (0.416)	64	197717	500.000	440.71	70.00- 130.00	100.00
2.040	2.040 (0.416)	66	63427			0.00- 30.00	32.08
2.040	2.040 (0.416)	49	51469			0.00- 30.00	26.03
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.236	2.236 (0.456)	101	1195990	500.000	454.09	70.00- 130.00	100.00
2.236	2.236 (0.456)	103	776842			35.14- 95.14	64.95
30 Ethanol					CAS #: 64-17-5		
2.474	2.474 (0.504)	45	127116	500.000	466.64	70.00- 130.00	100.00
2.474	2.474 (0.504)	43	24319			0.00- 30.00	19.13
2.474	2.474 (0.504)	46	45989			0.00- 30.00	36.18
34 Freon 113					CAS #: 76-13-1		
2.740	2.740 (0.558)	151	810681	500.000	449.42	70.00- 130.00	100.00
2.740	2.740 (0.558)	153	519012			34.33- 94.33	64.02
2.740	2.740 (0.558)	101	933691			86.07- 146.07	115.17
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	592856	500.000	452.95	70.00- 130.00	100.00
2.768	2.768 (0.564)	96	419879			42.00- 102.00	70.82
2.768	2.768 (0.564)	98	275086			17.00- 77.00	46.40
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	171025	500.000	440.99	70.00- 130.00	100.00
2.894	2.894 (0.590)	43	538273			0.00- 30.00	314.73
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	1034963	500.000	446.18	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.020 (0.615)	45	524160	500.000	459.42	70.00- 130.00	100.00
3.020	3.020 (0.615)	43	120774			0.00- 30.00	23.04
3.020	3.020 (0.615)	59	21861			0.00- 30.00	4.17
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	157352	500.000	453.26	70.00- 130.00	100.00
3.160	3.160 (0.644)	41	386957			0.00- 30.00	245.92
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	434117	500.000	414.64	70.00- 130.00	100.00
3.328	3.328 (0.678)	84	361867			52.13- 112.13	83.36
3.328	3.328 (0.678)	51	128016			0.00- 30.00	29.49
50 MTBE					CAS #: 1634-04-4		
3.523	3.523 (0.718)	73	953253	500.000	460.20	70.00- 130.00	100.00

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
50 MTBE (continued)							
3.523	3.523 (0.718)	57	210068			0.00- 52.28	22.04
3.509	3.509 (0.715)	41	250191			0.00- 30.00	26.25
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.551	3.551 (0.724)	96	452933	500.000	447.45	70.00- 130.00	100.00
3.537	3.537 (0.721)	61	536168			87.47- 147.47	118.38
3.551	3.551 (0.724)	98	291874			0.00- 30.00	64.44
55 Hexane					CAS #: 110-54-3		
3.747	3.747 (0.763)	57	618999	500.000	452.73	70.00- 130.00	100.00
3.747	3.747 (0.763)	43	386292			0.00- 30.00	62.41
3.747	3.747 (0.763)	86	130716			0.00- 30.00	21.12
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	697412	500.000	453.28	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	227397			1.02- 61.02	32.61
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	99471	500.000	461.94	70.00- 130.00	100.00
4.083	4.083 (0.832)	43	838754			0.00- 30.00	843.21
4.083	4.083 (0.832)	42	79298			0.00- 30.00	79.72
70 2-Butanone					CAS #: 78-93-3		
4.699	4.699 (0.957)	72	204762	500.000	470.31	70.00- 130.00	100.00
4.685	4.685 (0.954)	43	757032			348.59- 408.59	369.71
4.699	4.699 (0.957)	57	60140			0.00- 30.00	29.37
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	511397	500.000	451.38	70.00- 130.00	100.00
4.657	4.657 (0.949)	96	469655			61.77- 121.77	91.84
4.643	4.643 (0.946)	98	298240			30.06- 90.06	58.32
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	435097	500.000	464.31	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	178908			11.35- 71.35	41.12
4.895	4.895 (0.997)	72	188337			0.00- 30.00	43.29
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	861392	500.000	457.54	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	575245			37.23- 97.23	66.78
77 Cyclohexane					CAS #: 110-82-7		
5.090	5.090 (1.037)	84	611188	500.000	453.71	70.00- 130.00	100.00
5.090	5.090 (1.037)	56	630280			71.80- 131.80	103.12
5.090	5.090 (1.037)	41	353561			26.96- 86.96	57.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.118	5.118 (1.043)	97	929880	500.000	478.69	70.00- 130.00	100.00
5.118	5.118 (1.043)	99	593990			34.22- 94.22	63.88
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.258	5.258 (1.071)	119	1039664	500.000	481.39	70.00- 130.00	100.00
5.258	5.258 (1.071)	117	1074357			74.38- 134.38	103.34
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.510	5.510 (1.123)	57	1935227	500.000	447.76	70.00- 130.00	100.00
5.510	5.510 (1.123)	56	649116			0.00- 30.00	33.54
5.510	5.510 (1.123)	41	519107			0.00- 30.00	26.82
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.916)	78	1263366	500.000	458.64	70.00- 130.00	100.00
5.524	5.524 (0.916)	77	294849			0.00- 30.00	23.34
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.935)	62	528503	500.000	448.57	70.00- 130.00	100.00
5.636	5.636 (0.935)	64	170043			0.00- 30.00	32.17
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.951)	71	459496	500.000	468.18	70.00- 130.00	100.00
5.734	5.734 (0.951)	43	713936			0.00- 30.00	155.37
5.734	5.734 (0.951)	100	181796			0.00- 30.00	39.56
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.037)	95	598903	500.000	458.32	70.00- 130.00	100.00
6.252	6.252 (1.037)	130	705510			84.53- 144.53	117.80
6.252	6.252 (1.037)	97	391749			36.61- 96.61	65.41
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.056)	83	823269	500.000	466.97	70.00- 130.00	100.00
6.364	6.364 (1.056)	98	438766			0.00- 30.00	53.30
6.364	6.364 (1.056)	55	566295			0.00- 30.00	68.79
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.091)	63	447042	500.000	465.99	70.00- 130.00	100.00
6.574	6.574 (1.091)	62	315549			43.08- 103.08	70.59
6.574	6.574 (1.091)	41	254735			28.43- 88.43	56.98
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.111)	88	309778	500.000	466.11	70.00- 130.00	100.00
6.700	6.700 (1.111)	58	190553			32.25- 92.25	61.51
6.700	6.700 (1.111)	57	61037			0.00- 30.00	19.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
104 Bromodichloromethane					CAS #: 75-27-4		
6.909	6.909 (1.146)	83	914752	500.000	492.81	70.00- 130.00	100.00
6.909	6.909 (1.146)	85	610043			36.61- 96.61	66.69
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.251)	75	661825	500.000	509.10	70.00- 130.00	100.00
7.539	7.539 (1.251)	77	209195			0.55- 60.55	31.61
7.539	7.539 (1.251)	39	311096			17.59- 77.59	47.01
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.763	7.763 (1.288)	85	180115	500.000	521.48	70.00- 130.00	100.00
7.763	7.763 (1.288)	43	946503			0.00- 30.00	525.50
7.763	7.763 (1.288)	58	370991			0.00- 30.00	205.97
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.311)	91	1665243	500.000	454.72	70.00- 130.00	100.00
7.903	7.903 (1.311)	92	977014			28.40- 88.40	58.67
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	664392	500.000	508.75	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	213636			1.48- 61.48	32.16
8.281	8.281 (0.890)	39	307088			15.25- 75.25	46.22
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	590269	500.000	465.54	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	362743			32.37- 92.37	61.45
8.463	8.463 (0.910)	83	476192			52.59- 112.59	80.67
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	933196	500.000	446.81	70.00- 130.00	100.00
8.477	8.477 (0.911)	129	681587			42.20- 102.20	73.04
8.477	8.477 (0.911)	131	660934			40.52- 100.52	70.82
120 2-Hexanone					CAS #: 591-78-6		
8.714	8.714 (0.937)	58	505805	500.000	498.53	70.00- 130.00	100.00
8.714	8.714 (0.937)	43	926139			157.20- 217.20	183.10
8.714	8.714 (0.937)	100	132486			0.00- 30.00	26.19
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	1160595	500.000	515.18	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	895393			0.00- 30.00	77.15
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	975242	500.000	482.00	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	921504			64.58- 124.58	94.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	1486565	500.000	458.35	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	483570			2.47- 62.47	32.53
9.330	9.330 (1.003)	77	737382			19.40- 79.40	49.60
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	763249	500.000	467.55	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	2249551			0.00- 30.00	294.73
131 m,p-Xylene					CAS #: 108-38-3		
9.512	9.512 (1.023)	106	961221	500.000	471.06	70.00- 130.00	100.00
9.512	9.512 (1.023)	91	1781357			0.00- 30.00	185.32
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	926610	500.000	475.20	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	1809564			166.95- 226.95	195.29
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	1390970	500.000	495.37	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	629561			14.53- 74.53	45.26
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	1180844	500.000	551.67	70.00- 130.00	100.00
9.988	9.988 (1.074)	171	603459			20.55- 80.55	51.10
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	2771051	500.000	486.21	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	802697			0.00- 30.00	28.97
10.072	10.072 (1.083)	51	226543			0.00- 30.00	8.18
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.337	10.337 (1.111)	83	1333647	500.000	493.52	70.00- 130.00	100.00
10.337	10.337 (1.111)	85	883100			36.42- 96.42	66.22
143 Propylbenzene					CAS #: 103-65-1		
10.351	10.351 (1.113)	91	3204506	500.000	481.63	70.00- 130.00	100.00
10.351	10.351 (1.113)	120	840773			0.00- 30.00	26.24
10.351	10.351 (1.113)	105	129098			0.00- 30.00	4.03
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	2940611	500.000	490.89	70.00- 130.00	100.00
10.421	10.421 (1.120)	120	951257			2.37- 62.37	32.35
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	2373822	500.000	479.67	70.00- 130.00	100.00
10.477	10.477 (1.126)	120	1231994			0.00- 30.00	51.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	2217341	500.000	485.80	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	1092240			18.64- 78.64	49.26
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	1791493	500.000	490.58	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	1141867			0.00- 30.00	63.74
10.869	10.869 (1.168)	111	674689			0.00- 30.00	37.66
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	1810441	500.000	495.32	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	1163082			0.00- 30.00	64.24
10.939	10.939 (1.176)	111	656027			0.00- 30.00	36.24
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	1424215	500.000	574.87	70.00- 130.00	100.00
11.023	11.023 (1.185)	126	341507			0.00- 30.00	23.98
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	1699380	500.000	504.07	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	1071930			34.19- 94.19	63.08
11.149	11.149 (1.199)	111	651468			9.07- 69.07	38.34
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.974	11.974 (1.287)	180	1213959	500.000	621.28	70.00- 130.00	100.00
11.974	11.974 (1.287)	182	1159719			64.84- 124.84	95.53
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.016	12.016 (1.292)	225	1166112	500.000	642.96	70.00- 130.00	100.00
12.016	12.016 (1.292)	223	729069			31.62- 91.62	62.52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050408.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 500ppbv (5000ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	280517	-5.96
94 1,4-Difluorobenze	1131229	678737	1583721	1038406	-8.21
125 Chlorobenzene-d5	1067777	640666	1494888	981858	-8.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.03	0.23
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050408.d

Date : 04-MAY-2010 12:19

Client ID: Level 7

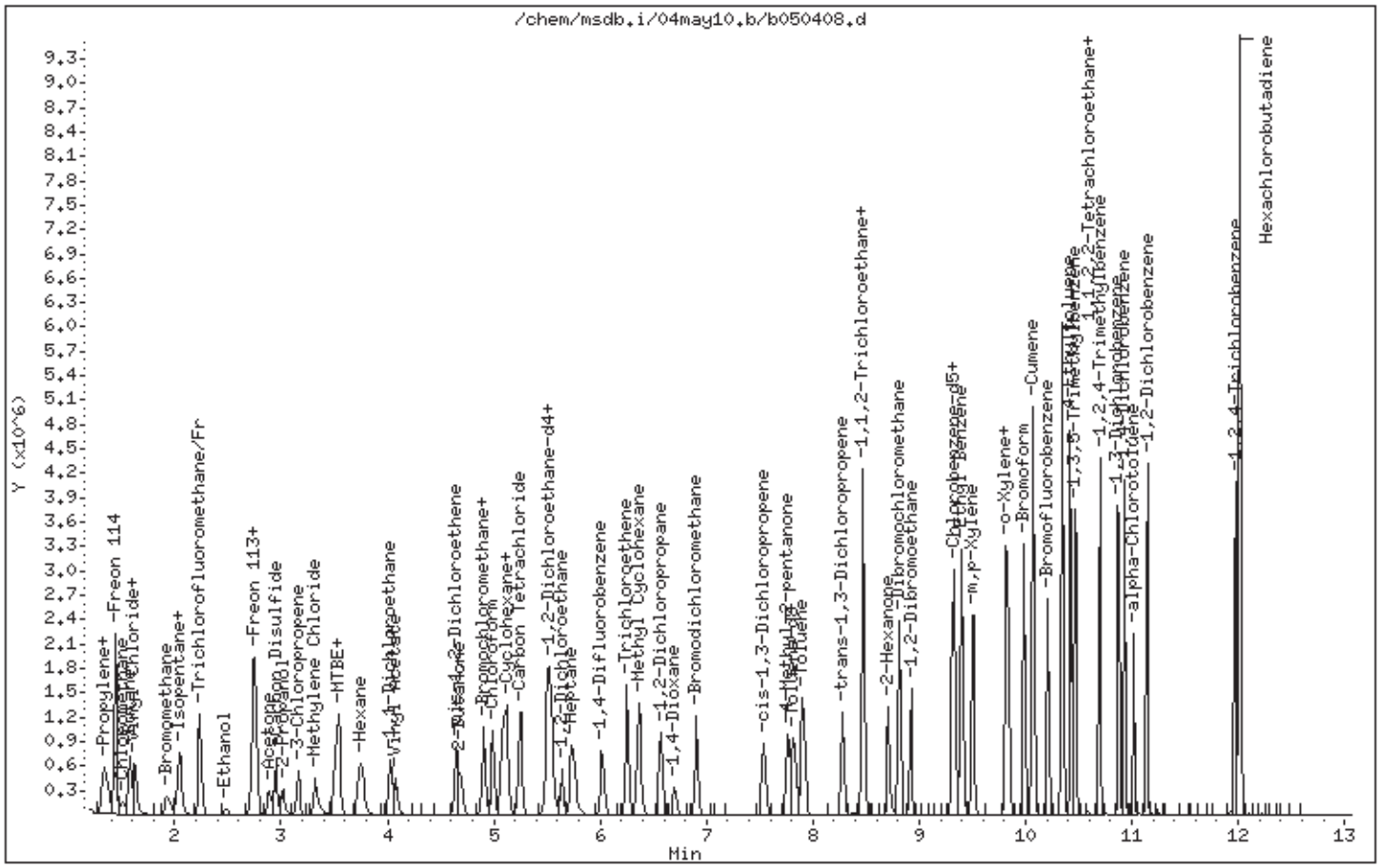
Instrument: msdb.i

Sample Info: 5.0ml #1968-5

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/13may10.b/b051311.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 13-MAY-2010 10:44
Operator : mtw Inst ID: msdb.i
Smp Info : 10ml #1968-18
Misc Info : 1000ppbv (5000ppbv)
Comment :
Method : /chem/msdb.i/14may10.b/b1050504c.m
Meth Date : 14-May-2010 09:35 wwong Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: FreonICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 75 Bromochloromethane					CAS #: 74-97-5		
4.895	4.895 (1.000)	130	233543	400.000		70.00- 130.00	100.00
4.895	4.895 (1.000)	128	181859			49.31- 109.31	77.87
4.895	4.895 (1.000)	49	243130			73.86- 133.86	104.11
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	888376	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	125757			0.00- 44.13	14.16
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	813960	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	386763			0.00- 30.00	47.52
4 Freon134a					CAS #: 811-97-2		
1.271	1.271 (0.260)	83	412886	1000.00	848.99	70.00- 130.00	100.00
1.257	1.257 (0.257)	69	718567			0.00- 30.00	174.04
6 Freon 152a					CAS #: 75-37-6		
1.313	1.313 (0.268)	65	243189	1000.00	826.00	70.00- 130.00	100.00(M)
1.355	1.355 (0.277)	51	1141620			0.00- 30.00	469.44

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
8 Freon 22					CAS #: 75-45-6		
1.355	1.355 (0.277)	67	114655	1000.00	909.81	70.00- 130.00	100.00
1.355	1.355 (0.277)	51	1151839			0.00- 30.00	1004.61
11 Freon142b					CAS #: 75-68-3		
1.453	1.453 (0.297)	65	951110	1000.00	860.69	70.00- 130.00	100.00
1.453	1.453 (0.297)	45	233881			0.00- 30.00	24.59
25 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
2.222	2.222 (0.454)	67	1406919	1000.00	960.13	70.00- 130.00	100.00
2.222	2.222 (0.454)	69	463126			0.00- 30.00	32.92
1.859	1.859 (0.380)	35	10977			0.00- 30.00	0.78

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b051311.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: mtw
Method File: /chem/msdb.i/14may10.b/b1050504c.m
Misc Info: 1000ppbv (5000ppbv)

Calibration Date: 14-MAY-2010
Calibration Time: 06:57
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	270638	162383	378893	233543	-13.71
94 1,4-Difluorobenze	1008570	605142	1411998	888376	-11.92
125 Chlorobenzene-d5	939488	563693	1315283	813960	-13.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.89	-0.28
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/13may10.b/b051311.d

Date : 13-MAY-2010 10:44

Client ID: Level 8

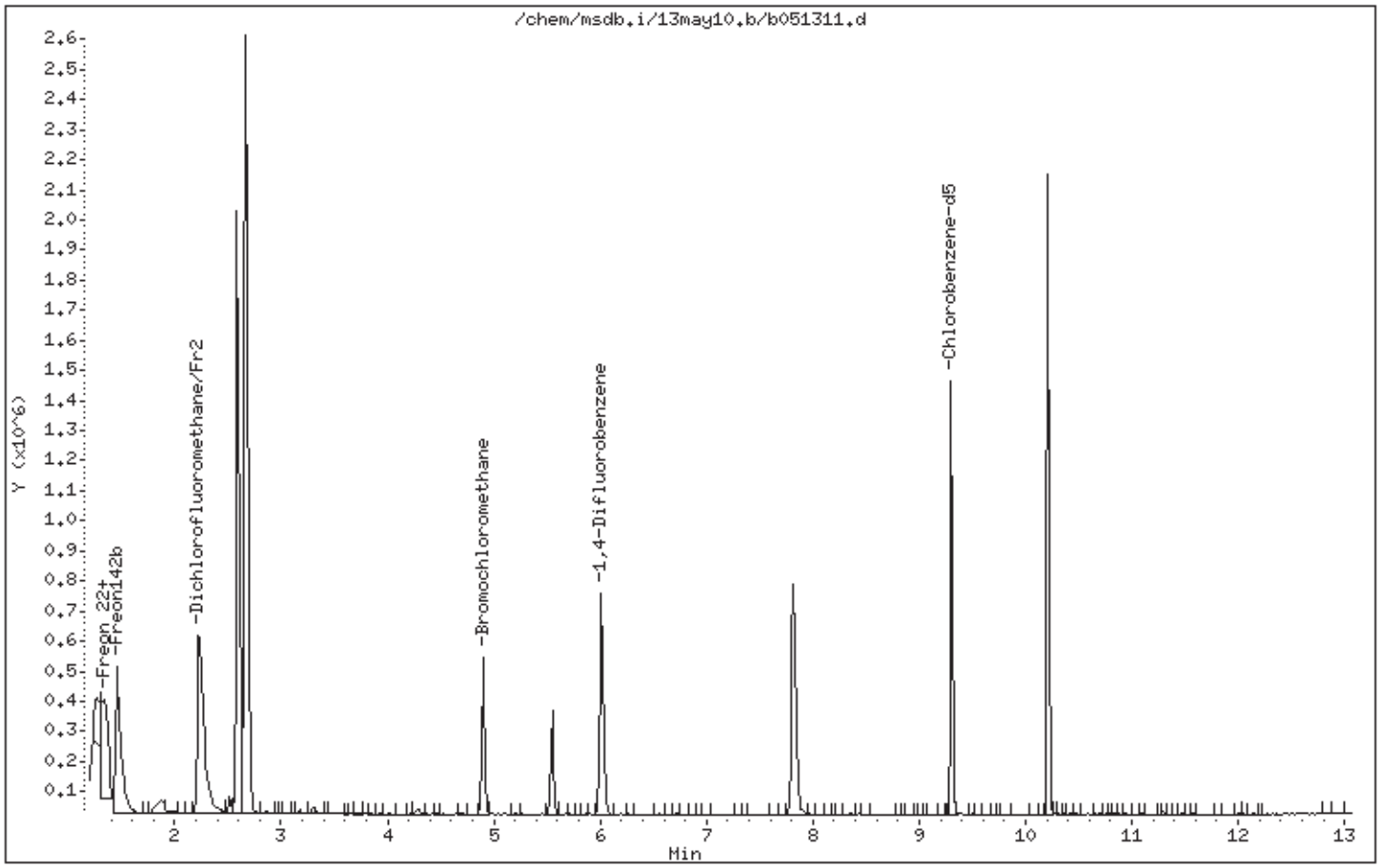
Instrument: msdb.i

Sample Info: 10ml #1968-18

Operator: mtw

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/05may10.b/b050517.d
Lab Smp Id: Level 8 Client Smp ID: Level 8
Inj Date : 06-MAY-2010 00:53
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #1911-242
Misc Info : 1000ppbv>1000ppbv, Aer Std
Comment :
Method : /chem/msdb.i/05may10.b/b1050504c.m
Meth Date : 13-May-2010 13:23 croush Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Sp22.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	335416	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	259451			48.51- 108.51	77.35
4.909	4.909 (1.000)	49	344580			72.75- 132.75	102.73
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1264746	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	182159			0.00- 43.98	14.40
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1163535	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	557665			0.00- 30.00	47.93
26 1,3-Dichloropropane					CAS #: 142-28-9		
2.278	2.278 (0.464)	76	11161	1000.00	1080.4	70.00- 130.00	100.00
2.278	2.278 (0.464)	41	23248			258.45- 318.45	208.30
2.278	2.278 (0.464)	78	4050			0.00- 30.00	36.29
43 Cyclopentene					CAS #: 142-29-0		
3.160	3.160 (0.644)	67	1711938	1000.00	952.92	70.00- 130.00	100.00

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
43 Cyclopentene (continued)							
3.160	3.160 (0.644)	68	680865			0.00- 30.00	39.77
3.160	3.160 (0.644)	53	317711			0.00- 30.00	18.56
62 1-Propanol					CAS #: 71-23-8		
4.167	4.167 (0.849)	42	134102	1000.00	1088.6	70.00- 130.00	100.00
4.181	4.181 (0.852)	59	164434			0.00- 30.00	122.62
4.167	4.167 (0.849)	41	92545			0.00- 30.00	69.01
69 2,2-Dichloropropane					CAS #: 594-20-7		
4.615	4.615 (0.940)	77	1444983	1000.00	1063.0	70.00- 130.00	100.00
4.615	4.615 (0.940)	79	464016			2.50- 62.50	32.11
4.615	4.615 (0.940)	97	320077			0.00- 30.00	22.15
80 1,1-Dichloropropene					CAS #: 563-58-6		
5.300	5.300 (1.080)	110	634057	1000.00	978.92	70.00- 130.00	100.00
5.300	5.300 (1.080)	75	1536519			0.00- 30.00	242.33
87 Isobutanol					CAS #: 78-83-1		
5.524	5.524 (0.919)	43	723738	1000.00	1153.9	70.00- 130.00	100.00
5.524	5.524 (0.919)	41	522937			0.00- 30.00	72.26
96 1-Butanol					CAS #: 71-36-3		
6.266	6.266 (1.042)	56	671568	1000.00	1261.8	70.00- 130.00	100.00
6.266	6.266 (1.042)	41	479927			0.00- 30.00	71.46
6.266	6.266 (1.042)	43	395151			0.00- 30.00	58.84
122 Butyl Acetate					CAS #: 123-86-4		
8.812	8.812 (1.465)	56	1203730	1000.00	1110.4	70.00- 130.00	100.00
8.812	8.812 (1.465)	73	526522			0.00- 30.00	43.74
8.812	8.812 (1.465)	43	2856568			0.00- 30.00	237.31
129 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.414	9.414 (1.012)	131	1913427	1000.00	1024.1	70.00- 130.00	100.00
9.414	9.414 (1.012)	117	1222766			0.00- 30.00	63.90
9.414	9.414 (1.012)	95	641498			0.00- 30.00	33.53
135 2-Heptanone					CAS #: 110-43-0		
9.946	9.946 (1.069)	58	1892823	1000.00	1142.2	70.00- 130.00	100.00
9.946	9.946 (1.069)	43	2945524			0.00- 30.00	155.62
140 Cyclohexanone					CAS #: 108-94-1		
10.184	10.184 (1.095)	55	1329702	1000.00	1090.4	70.00- 130.00	100.00
10.198	10.198 (1.096)	98	703092			0.00- 30.00	52.88
10.184	10.184 (1.095)	42	940581			0.00- 30.00	70.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
144 Bromobenzene					CAS #: 108-86-1		
10.309	10.309 (1.108)	156	2335384	1000.00	918.06	70.00- 130.00	100.00
10.296	10.296 (1.107)	77	2928273			97.72- 157.72	125.39
10.309	10.309 (1.108)	158	2278487			0.00- 30.00	97.56
146 1,2,3-Trichloropropane					CAS #: 96-18-4		
10.365	10.365 (1.114)	110	1083472	1000.00	919.80	70.00- 130.00	100.00
10.365	10.365 (1.114)	61	596618			0.00- 30.00	55.07
10.365	10.365 (1.114)	112	706615			0.00- 30.00	65.22
150 2-Chlorotoluene					CAS #: 95-49-8		
10.421	10.421 (1.120)	126	1896527	1000.00	920.19	70.00- 130.00	100.00
10.421	10.421 (1.120)	91	4758153			221.94- 281.94	250.89
10.421	10.421 (1.120)	65	399334			0.00- 30.00	21.06
151 4-Chlorotoluene					CAS #: 106-43-4		
10.491	10.491 (1.128)	126	1862778	1000.00	907.49	70.00- 130.00	100.00
10.491	10.491 (1.128)	91	4762119			224.51- 284.51	255.65
10.491	10.491 (1.128)	63	576104			0.00- 30.00	30.93
153 tert-Butylbenzene					CAS #: 98-06-6		
10.659	10.659 (1.146)	119	6001040	1000.00	891.18	70.00- 130.00	100.00
10.659	10.659 (1.146)	134	1789754			0.00- 59.28	29.82
10.659	10.659 (1.146)	91	3696551			0.00- 30.00	61.60
154 Pentachloroethane					CAS #: 76-01-7		
10.701	10.701 (1.150)	167	1906533	1000.00	1058.2	70.00- 130.00	100.00
10.701	10.701 (1.150)	117	1768449			0.00- 30.00	92.76
155 sec-Butylbenzene					CAS #: 135-98-8		
10.785	10.785 (1.159)	105	8531276	1000.00	885.15	70.00- 130.00	100.00
10.785	10.785 (1.159)	134	2045048			0.00- 52.63	23.97
10.785	10.785 (1.159)	91	1352494			0.00- 30.00	15.85
158 p-Cymene					CAS #: 99-87-6		
10.869	10.869 (1.168)	119	7743422	1000.00	915.90	70.00- 130.00	100.00
10.869	10.869 (1.168)	134	2277416			0.00- 58.76	29.41
10.869	10.869 (1.168)	91	1762615			0.00- 30.00	22.76
160 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
10.939	10.939 (1.176)	120	2909901	1000.00	922.18	70.00- 130.00	100.00
10.939	10.939 (1.176)	105	6336778			191.18- 251.18	217.77
10.939	10.939 (1.176)	77	726829			0.00- 30.00	24.98
162 Butylbenzene					CAS #: 104-51-8		
11.107	11.107 (1.194)	134	2044806	1000.00	927.63	70.00- 130.00	100.00

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
162 Butylbenzene (continued)							
11.107	11.107 (1.194)	91	6405177			290.05- 350.05	313.24
11.107	11.107 (1.194)	92	3589021			0.00- 30.00	175.52
167 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
11.583	11.583 (1.245)	157	2348239	1000.00	1088.0	70.00- 130.00	100.00
11.569	11.569 (1.244)	75	1605656			44.10- 104.10	68.38
11.583	11.583 (1.245)	155	1820915			0.00- 30.00	77.54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050517.d
Lab Smp Id: Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /chem/msdb.i/05may10.b/b1050504c.m
Misc Info: 1000ppbv>1000ppbv, Aer Std

Calibration Date: 06-MAY-2010
Calibration Time: 00:07
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	324300	194580	454020	335416	3.43
94 1,4-Difluorobenze	1228336	737002	1719670	1264746	2.96
125 Chlorobenzene-d5	1125218	675131	1575305	1163535	3.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/05may10.b/b050517.d

Date : 06-MAY-2010 00:53

Client ID: Level 8

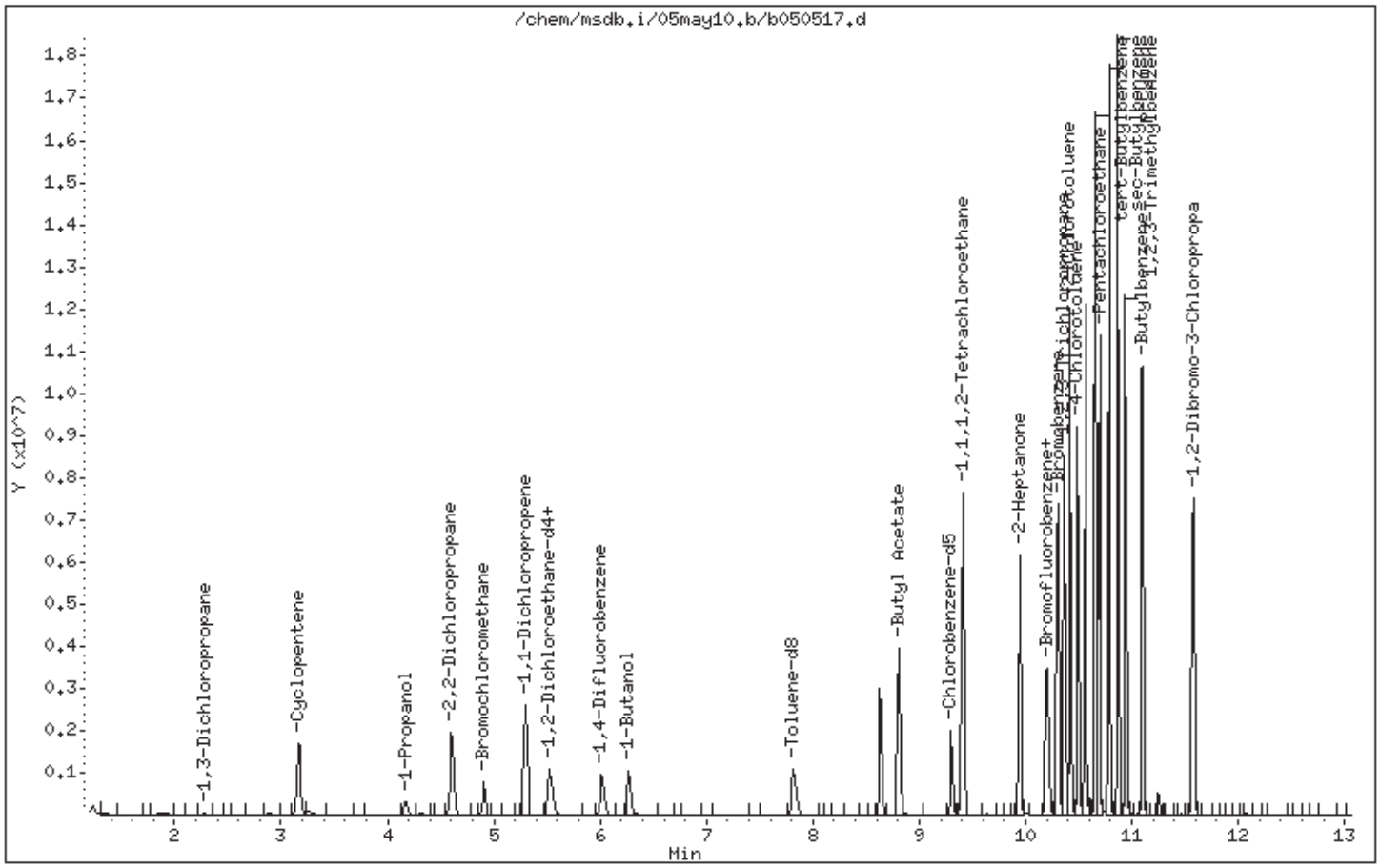
Instrument: msdb.i

Sample Info: 50mL #1911-242

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050413.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 04-MAY-2010 15:30
Operator : db Inst ID: msdb.i
Smp Info : 50ml #1936-110
Misc Info : 1000ppbv (1000ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 15:30 Cal File: b050413.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OxyNcrv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	323546	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	253897			47.13- 107.13	78.47
4.909	4.909 (1.000)	49	342748			73.34- 133.34	105.93
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1248339	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	177167			0.00- 43.97	14.19
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1138318	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	543575			0.00- 30.00	47.75
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.425	3.425 (0.698)	59	1470910	1000.00	1057.9	70.00- 130.00	100.00(A)
3.425	3.425 (0.698)	41	505256			0.00- 30.00	34.35
3.425	3.425 (0.698)	57	157089			0.00- 30.00	10.68
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	3314879	1000.00	965.93	70.00- 130.00	100.00

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
58 Isopropyl ether (continued)							
4.013	4.013 (0.818)	87	988628			0.00- 30.00	29.82
4.013	4.013 (0.818)	59	375964			0.00- 30.00	11.34
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	2849652	1000.00	1009.6	70.00- 130.00	100.00(A)
4.391	4.391 (0.895)	87	1347711			0.00- 30.00	47.29
4.391	4.391 (0.895)	41	604308			0.00- 30.00	21.21
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	2496100	1000.00	1010.5	70.00- 130.00	100.00(A)
5.622	5.622 (1.145)	87	641111			0.00- 30.00	25.68
5.622	5.622 (1.145)	55	872623			0.00- 30.00	34.96
171 Naphthalene					CAS #: 91-20-3		
12.114	12.114 (1.302)	128	2180377	1000.00	854.81	70.00- 130.00	100.00
12.114	12.114 (1.302)	127	273480			0.00- 30.00	12.54

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050413.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 1000ppbv (1000ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	323546	8.46
94 1,4-Difluorobenze	1131229	678737	1583721	1248339	10.35
125 Chlorobenzene-d5	1067777	640666	1494888	1138318	6.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050413.d

Date : 04-MAY-2010 15:30

Client ID: Level 8

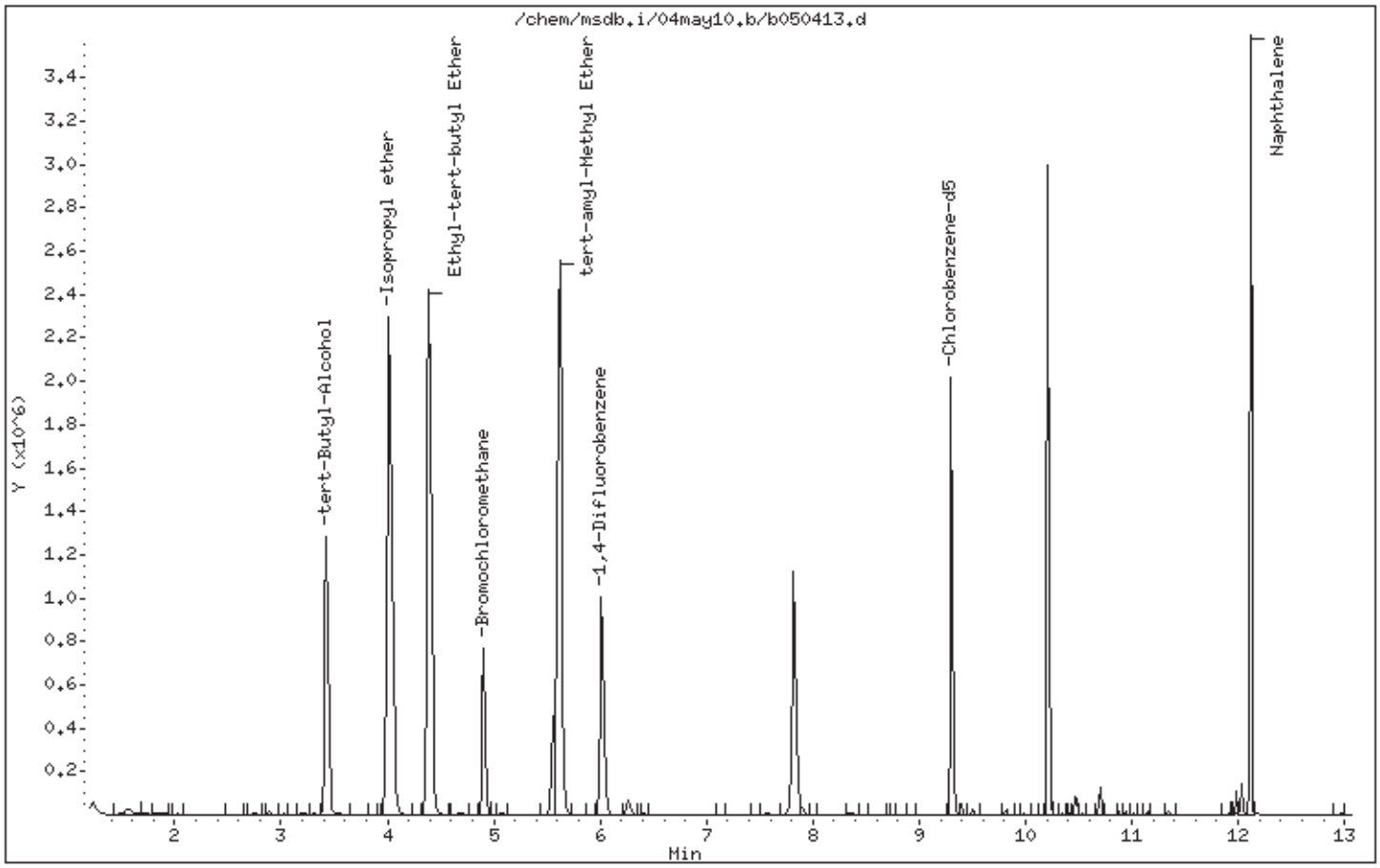
Instrument: msdb.i

Sample Info: 50ml #1936-110

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050409.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 04-MAY-2010 13:13
Operator : db Inst ID: msdb.i
Smp Info : 10ml #1968-5
Misc Info : 1000ppbv (5000ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 15:30 Cal File: b050413.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09high.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	285907	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	221654			47.13- 107.13	77.53
4.909	4.909 (1.000)	49	299282			73.34- 133.34	104.68
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1054348	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	150145			0.00- 43.97	14.24
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	992678	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	474986			0.00- 30.00	47.85
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	289089	400.000	389.40	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	178952			0.00- 30.00	61.90
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1019593	400.000	401.64	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	101290			0.00- 30.00	9.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	739682			0.00- 30.00	72.55
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	625168	400.000	408.48	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	687915			82.64- 142.64	110.04
10.212	10.212 (1.098)	176	605751			67.24- 127.24	96.89
5 Propylene					CAS #: 115-07-1		
1.313	1.313 (0.267)	41	496758	1000.00	867.02	70.00- 130.00	100.00
1.313	1.313 (0.267)	42	331464			0.00- 30.00	66.73
1.313	1.313 (0.267)	39	358918			0.00- 30.00	72.25
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.341	1.341 (0.273)	85	1915799	1000.00	871.60	70.00- 130.00	100.00
1.341	1.341 (0.273)	87	614989			0.00- 30.00	32.10
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	1752044	1000.00	905.76	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	564947			1.72- 61.72	32.25
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	680395	1000.00	865.81	70.00- 130.00	100.00
1.509	1.509 (0.307)	52	213050			0.00- 30.00	31.31
13 Butane					CAS #: 106-97-8		
1.579	1.579 (0.322)	58	171070	1000.00	855.48	70.00- 130.00	100.00
1.579	1.579 (0.322)	43	1145360			0.00- 30.00	669.53
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	753922	1000.00	895.87	70.00- 130.00	100.00
1.607	1.607 (0.327)	64	241357			0.00- 30.00	32.01
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.621 (0.330)	54	563549	1000.00	912.11	70.00- 130.00	100.00
1.621	1.621 (0.330)	39	601760			0.00- 30.00	106.78
18 Bromomethane					CAS #: 74-83-9		
1.929	1.929 (0.393)	94	708013	1000.00	927.84	70.00- 130.00	100.00
1.929	1.929 (0.393)	96	672939			63.57- 123.57	95.05
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	866605	1000.00	886.86	70.00- 130.00	100.00
2.054	2.054 (0.419)	57	596521			0.00- 30.00	68.83
2.054	2.054 (0.419)	72	83045			0.00- 30.00	9.58

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
19 Chloroethane					CAS #: 75-00-3		
2.026	2.026 (0.413)	64	405151	1000.00	886.06	70.00- 130.00	100.00
2.026	2.026 (0.413)	66	127399			0.00- 30.00	31.44
2.026	2.026 (0.413)	49	104542			0.00- 30.00	25.80
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.236	2.236 (0.456)	101	2384693	1000.00	888.35	70.00- 130.00	100.00
2.236	2.236 (0.456)	103	1555292			35.14- 95.14	65.22
30 Ethanol					CAS #: 64-17-5		
2.474	2.474 (0.504)	45	281951	1000.00	1015.5	70.00- 130.00	100.00
2.474	2.474 (0.504)	43	52535			0.00- 30.00	18.63
2.474	2.474 (0.504)	46	113666			0.00- 30.00	40.31
34 Freon 113					CAS #: 76-13-1		
2.740	2.740 (0.558)	151	1628724	1000.00	885.91	70.00- 130.00	100.00
2.740	2.740 (0.558)	153	1046787			34.33- 94.33	64.27
2.740	2.740 (0.558)	101	1888391			86.07- 146.07	115.94
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	1194576	1000.00	895.47	70.00- 130.00	100.00
2.754	2.754 (0.561)	96	852361			42.00- 102.00	71.35
2.754	2.754 (0.561)	98	548645			17.00- 77.00	45.93
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	351713	1000.00	889.80	70.00- 130.00	100.00
2.894	2.894 (0.590)	43	1101374			0.00- 30.00	313.15
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	2117812	1000.00	895.80	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.020	3.020 (0.615)	45	1131357	1000.00	972.93	70.00- 130.00	100.00
3.020	3.020 (0.615)	43	254413			0.00- 30.00	22.49
3.020	3.020 (0.615)	59	45343			0.00- 30.00	4.01
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	345133	1000.00	975.44	70.00- 130.00	100.00
3.160	3.160 (0.644)	41	844410			0.00- 30.00	244.66
48 Methylene Chloride					CAS #: 75-09-2		
3.328	3.328 (0.678)	49	855017	1000.00	801.25	70.00- 130.00	100.00
3.328	3.328 (0.678)	84	717174			52.13- 112.13	83.88
3.328	3.328 (0.678)	51	257507			0.00- 30.00	30.12
50 MTBE					CAS #: 1634-04-4		
3.524	3.524 (0.718)	73	1984351	1000.00	939.92	70.00- 130.00	100.00

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
50 MTBE (continued)							
3.524	3.524 (0.718)	57	442115			0.00- 52.28	22.28
3.524	3.524 (0.718)	41	496348			0.00- 30.00	25.01
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.538	3.538 (0.721)	96	909630	1000.00	881.68	70.00- 130.00	100.00
3.538	3.538 (0.721)	61	1078148			87.47- 147.47	118.53
3.552	3.552 (0.724)	98	582970			0.00- 30.00	64.09
55 Hexane					CAS #: 110-54-3		
3.747	3.747 (0.763)	57	1239193	1000.00	889.25	70.00- 130.00	100.00
3.747	3.747 (0.763)	43	786895			0.00- 30.00	63.50
3.747	3.747 (0.763)	86	262041			0.00- 30.00	21.15
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	1411449	1000.00	900.07	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	452091			1.02- 61.02	32.03
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	216397	1000.00	986.00	70.00- 130.00	100.00
4.083	4.083 (0.832)	43	1820365			0.00- 30.00	841.22
4.083	4.083 (0.832)	42	168319			0.00- 30.00	77.78
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	411972	1000.00	928.40	70.00- 130.00	100.00
4.685	4.685 (0.954)	43	1558580			348.59- 408.59	378.32
4.685	4.685 (0.954)	57	120250			0.00- 30.00	29.19
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	1029952	1000.00	891.94	70.00- 130.00	100.00
4.643	4.643 (0.946)	96	940389			61.77- 121.77	91.30
4.643	4.643 (0.946)	98	600883			30.06- 90.06	58.34
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	886141	1000.00	927.82	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	361633			11.35- 71.35	40.81
4.895	4.895 (0.997)	72	386973			0.00- 30.00	43.67
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	1721375	1000.00	897.10	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	1154679			37.23- 97.23	67.08
77 Cyclohexane					CAS #: 110-82-7		
5.091	5.091 (1.037)	84	1220759	1000.00	889.14	70.00- 130.00	100.00
5.091	5.091 (1.037)	56	1266450			71.80- 131.80	103.74
5.091	5.091 (1.037)	41	713535			26.96- 86.96	58.45

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.119 (1.043)	97	1879116	1000.00	949.10	70.00- 130.00	100.00
5.119	5.119 (1.043)	99	1216792			34.22- 94.22	64.75
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.259	5.259 (1.071)	119	2115048	1000.00	960.86	70.00- 130.00	100.00
5.245	5.245 (1.068)	117	2184114			74.38- 134.38	103.27
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.510	5.510 (1.123)	57	3896738	1000.00	884.60	70.00- 130.00	100.00
5.510	5.510 (1.123)	56	1297655			0.00- 30.00	33.30
5.510	5.510 (1.123)	41	1044846			0.00- 30.00	26.81
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	2521740	1000.00	901.63	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	596853			0.00- 30.00	23.67
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	1065207	1000.00	890.43	70.00- 130.00	100.00
5.636	5.636 (0.937)	64	343991			0.00- 30.00	32.29
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	911984	1000.00	915.17	70.00- 130.00	100.00
5.734	5.734 (0.953)	43	1424832			0.00- 30.00	156.23
5.734	5.734 (0.953)	100	363511			0.00- 30.00	39.86
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	1210643	1000.00	912.46	70.00- 130.00	100.00
6.252	6.252 (1.040)	130	1392777			84.53- 144.53	115.04
6.252	6.252 (1.040)	97	784481			36.61- 96.61	64.80
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	1634303	1000.00	912.98	70.00- 130.00	100.00
6.364	6.364 (1.058)	98	870700			0.00- 30.00	53.28
6.364	6.364 (1.058)	55	1146301			0.00- 30.00	70.14
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	888992	1000.00	912.65	70.00- 130.00	100.00
6.574	6.574 (1.093)	62	635381			43.08- 103.08	71.47
6.574	6.574 (1.093)	41	500284			28.43- 88.43	56.28
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	623668	1000.00	924.21	70.00- 130.00	100.00
6.700	6.700 (1.114)	58	388753			32.25- 92.25	62.33
6.700	6.700 (1.114)	57	124308			0.00- 30.00	19.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
104 Bromodichloromethane					CAS #: 75-27-4		
6.910	6.910 (1.149)	83	1866097	1000.00	990.13	70.00- 130.00	100.00
6.910	6.910 (1.149)	85	1221406			36.61- 96.61	65.45
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	1356951	1000.00	1028.0	70.00- 130.00	100.00
7.539	7.539 (1.254)	77	429510			0.55- 60.55	31.65
7.539	7.539 (1.254)	39	652532			17.59- 77.59	48.09
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.763	7.763 (1.291)	85	356310	1000.00	1016.0	70.00- 130.00	100.00
7.763	7.763 (1.291)	43	1933418			0.00- 30.00	542.62
7.763	7.763 (1.291)	58	756159			0.00- 30.00	212.22
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	3290296	1000.00	884.89	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	1928571			28.40- 88.40	58.61
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	1390360	1000.00	1053.0	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	443467			1.48- 61.48	31.90
8.281	8.281 (0.890)	39	638851			15.25- 75.25	45.95
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	1163018	1000.00	907.26	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	723236			32.37- 92.37	62.19
8.463	8.463 (0.910)	83	943521			52.59- 112.59	81.13
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	1877400	1000.00	889.09	70.00- 130.00	100.00
8.477	8.477 (0.911)	129	1369022			42.20- 102.20	72.92
8.477	8.477 (0.911)	131	1322957			40.52- 100.52	70.47
120 2-Hexanone					CAS #: 591-78-6		
8.715	8.715 (0.937)	58	1029808	1000.00	1003.9	70.00- 130.00	100.00
8.715	8.715 (0.937)	43	1901739			157.20- 217.20	184.67
8.715	8.715 (0.937)	100	264393			0.00- 30.00	25.67
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	2369347	1000.00	1040.3	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	1829425			0.00- 30.00	77.21
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	1919698	1000.00	938.44	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	1825664			64.58- 124.58	95.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	2916836	1000.00	889.53	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	946907			2.47- 62.47	32.46
9.330	9.330 (1.003)	77	1428313			19.40- 79.40	48.97
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	1503078	1000.00	910.72	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	4348317			0.00- 30.00	289.29
131 m,p-Xylene					CAS #: 108-38-3		
9.498	9.498 (1.021)	106	1876947	1000.00	909.80	70.00- 130.00	100.00
9.498	9.498 (1.021)	91	3487793			0.00- 30.00	185.82
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	1788213	1000.00	907.07	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	3488285			166.95- 226.95	195.07
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	2764940	1000.00	973.96	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	1253139			14.53- 74.53	45.32
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	2371673	1000.00	1095.9	70.00- 130.00	100.00
9.988	9.988 (1.074)	171	1220991			20.55- 80.55	51.48
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	5366993	1000.00	931.43	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	1556432			0.00- 30.00	29.00
10.072	10.072 (1.083)	51	455135			0.00- 30.00	8.48
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.338	10.338 (1.111)	83	2588241	1000.00	947.35	70.00- 130.00	100.00
10.338	10.338 (1.111)	85	1725728			36.42- 96.42	66.68
143 Propylbenzene					CAS #: 103-65-1		
10.352	10.352 (1.113)	91	6163864	1000.00	916.32	70.00- 130.00	100.00
10.352	10.352 (1.113)	120	1649753			0.00- 30.00	26.76
10.352	10.352 (1.113)	105	253991			0.00- 30.00	4.12
147 4-Ethyltoluene					CAS #: 622-96-8		
10.422	10.422 (1.120)	105	5625557	1000.00	928.86	70.00- 130.00	100.00
10.422	10.422 (1.120)	120	1838790			2.37- 62.37	32.69
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.464	10.464 (1.125)	105	4415939	1000.00	882.60	70.00- 130.00	100.00
10.464	10.464 (1.125)	120	2283306			0.00- 30.00	51.71

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	4210092	1000.00	912.35	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	2069887			18.64- 78.64	49.16
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	3358332	1000.00	909.62	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	2160332			0.00- 30.00	64.33
10.869	10.869 (1.168)	111	1273804			0.00- 30.00	37.93
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	3382913	1000.00	915.44	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	2176509			0.00- 30.00	64.34
10.939	10.939 (1.176)	111	1236147			0.00- 30.00	36.54
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	2947267	1000.00	1176.7	70.00- 130.00	100.00
11.023	11.023 (1.185)	126	726648			0.00- 30.00	24.65
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	3211834	1000.00	942.31	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	2055129			34.19- 94.19	63.99
11.149	11.149 (1.199)	111	1244090			9.07- 69.07	38.73
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.975 (1.287)	180	2385409	1000.00	1207.5	70.00- 130.00	100.00
11.975	11.975 (1.287)	182	2277546			64.84- 124.84	95.48
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.031	12.031 (1.293)	225	2033046	1000.00	1108.8	70.00- 130.00	100.00
12.031	12.031 (1.293)	223	1282802			31.62- 91.62	63.10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050409.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 1000ppbv (5000ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	285907	-4.15
94 1,4-Difluorobenze	1131229	678737	1583721	1054348	-6.80
125 Chlorobenzene-d5	1067777	640666	1494888	992678	-7.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050409.d

Date : 04-MAY-2010 13:13

Client ID: Level 8

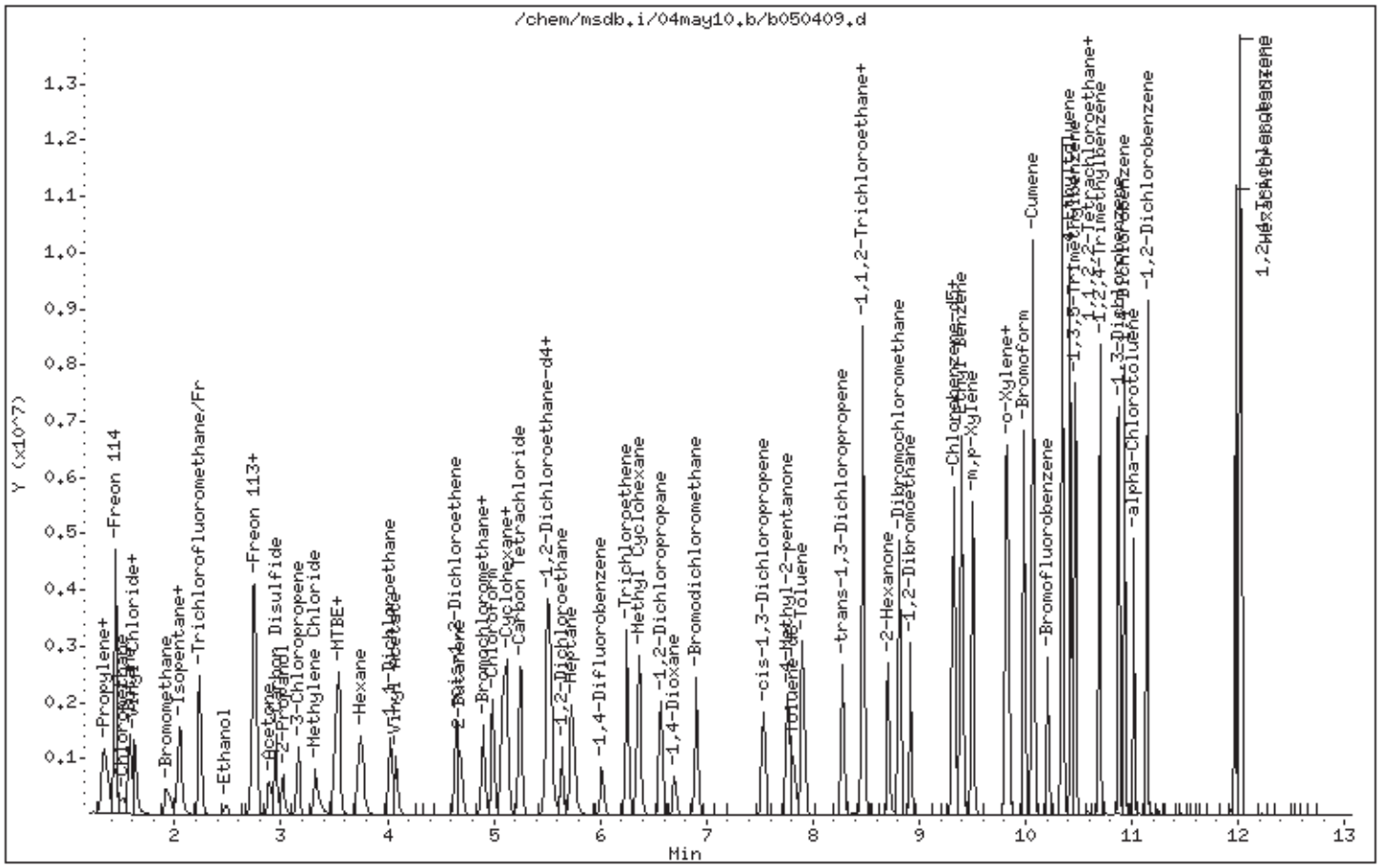
Instrument: msdb.i

Sample Info: 10ml #1968-5

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050410.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 04-MAY-2010 14:02
Operator : db Inst ID: msdb.i
Smp Info : 25ml #1968-5
Misc Info : 2500ppbv (5000ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 14:02 Cal File: b050410.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09high.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	325959	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	254502			47.13- 107.13	78.08
4.909	4.909 (1.000)	49	341110			73.34- 133.34	104.65
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1172700	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	165296			0.00- 43.97	14.10
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1125918	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	532807			0.00- 30.00	47.32
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	328291	400.000	387.86	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	211482			0.00- 30.00	64.42
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1144302	400.000	405.27	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	118521			0.00- 30.00	10.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	917745			0.00- 30.00	80.20
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.211	10.211 (1.098)	174	726254	400.000	418.37	70.00- 130.00	100.00
10.211	10.211 (1.098)	95	775164			82.64- 142.64	106.73
10.211	10.211 (1.098)	176	696017			67.24- 127.24	95.84
5 Propylene					CAS #: 115-07-1		
1.299	1.299 (0.265)	41	1551984	2500.00	2375.9	70.00- 130.00	100.00
1.299	1.299 (0.265)	42	1031519			0.00- 30.00	66.46
1.299	1.299 (0.265)	39	1140869			0.00- 30.00	73.51
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.327	1.327 (0.270)	85	5901921	2500.00	2355.2	70.00- 130.00	100.00
1.327	1.327 (0.270)	87	1943493			0.00- 30.00	32.93
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	5502760	2500.00	2495.2	70.00- 130.00	100.00
1.439	1.439 (0.293)	137	1790030			1.72- 61.72	32.53
12 Chloromethane					CAS #: 74-87-3		
1.495	1.495 (0.304)	50	2169075	2500.00	2421.0	70.00- 130.00	100.00
1.495	1.495 (0.304)	52	653146			0.00- 30.00	30.11
13 Butane					CAS #: 106-97-8		
1.565	1.565 (0.319)	58	587893	2500.00	2578.6	70.00- 130.00	100.00
1.565	1.565 (0.319)	43	4029217			0.00- 30.00	685.37
15 Vinyl Chloride					CAS #: 75-01-4		
1.593	1.593 (0.324)	62	2400213	2500.00	2501.7	70.00- 130.00	100.00
1.593	1.593 (0.324)	64	758876			0.00- 30.00	31.62
16 1,3-Butadiene					CAS #: 106-99-0		
1.620	1.620 (0.330)	54	1802789	2500.00	2559.3	70.00- 130.00	100.00
1.620	1.620 (0.330)	39	1864270			0.00- 30.00	103.41
18 Bromomethane					CAS #: 74-83-9		
1.914	1.914 (0.390)	94	2316384	2500.00	2662.6	70.00- 130.00	100.00
1.914	1.914 (0.390)	96	2210188			63.57- 123.57	95.42
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	2763941	2500.00	2481.0	70.00- 130.00	100.00
2.040	2.040 (0.416)	57	1906816			0.00- 30.00	68.99
2.040	2.040 (0.416)	72	262995			0.00- 30.00	9.52

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
19 Chloroethane					CAS #: 75-00-3		
2.026	2.026 (0.413)	64	1279060	2500.00	2453.6	70.00- 130.00	100.00
2.026	2.026 (0.413)	66	405527			0.00- 30.00	31.71
2.026	2.026 (0.413)	49	337426			0.00- 30.00	26.38
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.222	2.222 (0.453)	101	7518117	2500.00	2456.5	70.00- 130.00	100.00
2.222	2.222 (0.453)	103	5234731			35.14- 95.14	69.63
30 Ethanol					CAS #: 64-17-5		
2.474	2.474 (0.504)	45	932693	2500.00	2946.6	70.00- 130.00	100.00
2.474	2.474 (0.504)	43	177750			0.00- 30.00	19.06
2.474	2.474 (0.504)	46	387748			0.00- 30.00	41.57
34 Freon 113					CAS #: 76-13-1		
2.740	2.740 (0.558)	151	5273770	2500.00	2516.1	70.00- 130.00	100.00
2.740	2.740 (0.558)	153	3396826			34.33- 94.33	64.41
2.726	2.726 (0.555)	101	6011782			86.07- 146.07	113.99
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	3883598	2500.00	2553.5	70.00- 130.00	100.00
2.754	2.754 (0.561)	96	2724111			42.00- 102.00	70.14
2.754	2.754 (0.561)	98	1751272			17.00- 77.00	45.09
38 Acetone					CAS #: 67-64-1		
2.880	2.880 (0.587)	58	1128551	2500.00	2504.3	70.00- 130.00	100.00
2.880	2.880 (0.587)	43	3547277			0.00- 30.00	314.32
39 Carbon Disulfide					CAS #: 75-15-0		
2.936	2.936 (0.598)	76	6691523	2500.00	2482.6	70.00- 130.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.006	3.006 (0.612)	45	3815902	2500.00	2878.3	70.00- 130.00	100.00
3.006	3.006 (0.612)	43	803406			0.00- 30.00	21.05
3.006	3.006 (0.612)	59	154229			0.00- 30.00	4.04
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	1171474	2500.00	2904.1	70.00- 130.00	100.00
3.160	3.160 (0.644)	41	2888014			0.00- 30.00	246.53
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	2710202	2500.00	2227.7	70.00- 130.00	100.00
3.314	3.314 (0.675)	84	2246891			52.13- 112.13	82.90
3.314	3.314 (0.675)	51	814157			0.00- 30.00	30.04
50 MTBE					CAS #: 1634-04-4		
3.509	3.509 (0.715)	73	6646258	2500.00	2761.3	70.00- 130.00	100.00

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
50 MTBE (continued)							
3.509	3.509 (0.715)	57	1487843			0.00- 52.28	22.39
3.509	3.509 (0.715)	41	1586447			0.00- 30.00	23.87
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.537	3.537 (0.721)	96	2898567	2500.00	2464.3	70.00- 130.00	100.00
3.537	3.537 (0.721)	61	3524172			87.47- 147.47	121.58
3.537	3.537 (0.721)	98	1851130			0.00- 30.00	63.86
55 Hexane					CAS #: 110-54-3		
3.733	3.733 (0.761)	57	3975948	2500.00	2502.6	70.00- 130.00	100.00
3.733	3.733 (0.761)	43	2526610			0.00- 30.00	63.55
3.747	3.747 (0.763)	86	831509			0.00- 30.00	20.91
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	4513910	2500.00	2524.8	70.00- 130.00	100.00
4.027	4.027 (0.820)	65	1450789			1.02- 61.02	32.14
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	750164	2500.00	2998.1	70.00- 130.00	100.00
4.083	4.083 (0.832)	43	6344670			0.00- 30.00	845.77
4.083	4.083 (0.832)	42	578070			0.00- 30.00	77.06
70 2-Butanone					CAS #: 78-93-3		
4.685	4.685 (0.954)	72	1342859	2500.00	2654.4	70.00- 130.00	100.00
4.685	4.685 (0.954)	43	5112474			348.59- 408.59	380.72
4.685	4.685 (0.954)	57	405650			0.00- 30.00	30.21
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	3316479	2500.00	2519.2	70.00- 130.00	100.00
4.643	4.643 (0.946)	96	2986312			61.77- 121.77	90.04
4.643	4.643 (0.946)	98	1931167			30.06- 90.06	58.23
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	2915861	2500.00	2677.8	70.00- 130.00	100.00
4.895	4.895 (0.997)	71	1177697			11.35- 71.35	40.39
4.895	4.895 (0.997)	72	1254781			0.00- 30.00	43.03
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	5487366	2500.00	2508.4	70.00- 130.00	100.00
4.993	4.993 (1.017)	85	3682301			37.23- 97.23	67.11
77 Cyclohexane					CAS #: 110-82-7		
5.090	5.090 (1.037)	84	3900957	2500.00	2492.2	70.00- 130.00	100.00
5.090	5.090 (1.037)	56	4058765			71.80- 131.80	104.05
5.090	5.090 (1.037)	41	2326400			26.96- 86.96	59.64

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.118	5.118 (1.043)	97	6165556	2500.00	2731.4	70.00- 130.00	100.00
5.118	5.118 (1.043)	99	3999544			34.22- 94.22	64.87
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.244	5.244 (1.068)	119	6929914	2500.00	2761.4	70.00- 130.00	100.00
5.244	5.244 (1.068)	117	7207961			74.38- 134.38	104.01
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.496	5.496 (1.120)	57	12558338	2500.00	2500.6	70.00- 130.00	100.00
5.496	5.496 (1.120)	56	4215029			0.00- 30.00	33.56
5.496	5.496 (1.120)	41	3462061			0.00- 30.00	27.57
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	8041811	2500.00	2585.1	70.00- 130.00	100.00
5.524	5.524 (0.919)	77	1918058			0.00- 30.00	23.85
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	3424990	2500.00	2574.1	70.00- 130.00	100.00
5.636	5.636 (0.937)	64	1122547			0.00- 30.00	32.78
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	2922734	2500.00	2636.9	70.00- 130.00	100.00
5.734	5.734 (0.953)	43	4616544			0.00- 30.00	157.95
5.734	5.734 (0.953)	100	1148281			0.00- 30.00	39.29
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	3896013	2500.00	2640.1	70.00- 130.00	100.00
6.252	6.252 (1.040)	130	4550784			84.53- 144.53	116.81
6.252	6.252 (1.040)	97	2555350			36.61- 96.61	65.59
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	5186713	2500.00	2605.1	70.00- 130.00	100.00
6.364	6.364 (1.058)	98	2792610			0.00- 30.00	53.84
6.364	6.364 (1.058)	55	3693285			0.00- 30.00	71.21
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	2850342	2500.00	2630.9	70.00- 130.00	100.00
6.574	6.574 (1.093)	62	2029357			43.08- 103.08	71.20
6.574	6.574 (1.093)	41	1644065			28.43- 88.43	57.68
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	2024412	2500.00	2697.2	70.00- 130.00	100.00
6.700	6.700 (1.114)	58	1242512			32.25- 92.25	61.38
6.700	6.700 (1.114)	57	404193			0.00- 30.00	19.97

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
104 Bromodichloromethane						CAS #: 75-27-4	
6.909	6.909 (1.149)	83	6088272	2500.00	2904.3	70.00- 130.00	100.00
6.909	6.909 (1.149)	85	4050079			36.61- 96.61	66.52
108 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.539	7.539 (1.254)	75	4519784	2500.00	3078.6	70.00- 130.00	100.00
7.539	7.539 (1.254)	77	1445953			0.55- 60.55	31.99
7.539	7.539 (1.254)	39	2220990			17.59- 77.59	49.14
109 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.763	7.763 (1.291)	85	1169634	2500.00	2998.6	70.00- 130.00	100.00
7.763	7.763 (1.291)	43	6368245			0.00- 30.00	544.46
7.763	7.763 (1.291)	58	2469370			0.00- 30.00	211.12
111 Toluene						CAS #: 108-88-3	
7.903	7.903 (1.314)	91	10452620	2500.00	2527.4	70.00- 130.00	100.00
7.903	7.903 (1.314)	92	6229651			28.40- 88.40	59.60
114 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
8.281	8.281 (0.890)	75	4755864	2500.00	3175.8	70.00- 130.00	100.00
8.281	8.281 (0.890)	77	1524123			1.48- 61.48	32.05
8.281	8.281 (0.890)	39	2284726			15.25- 75.25	48.04
115 1,1,2-Trichloroethane						CAS #: 79-00-5	
8.463	8.463 (0.910)	97	4058026	2500.00	2791.0	70.00- 130.00	100.00
8.463	8.463 (0.910)	99	2528781			32.37- 92.37	62.32
8.463	8.463 (0.910)	83	3235494			52.59- 112.59	79.73
116 Tetrachloroethene						CAS #: 127-18-4	
8.476	8.476 (0.911)	166	6495133	2500.00	2711.9	70.00- 130.00	100.00
8.476	8.476 (0.911)	129	4786989			42.20- 102.20	73.70
8.476	8.476 (0.911)	131	4659325			40.52- 100.52	71.74
120 2-Hexanone						CAS #: 591-78-6	
8.714	8.714 (0.937)	58	3408453	2500.00	2929.6	70.00- 130.00	100.00
8.714	8.714 (0.937)	43	6350038			157.20- 217.20	186.30
8.714	8.714 (0.937)	100	885418			0.00- 30.00	25.98
121 Dibromochloromethane						CAS #: 124-48-1	
8.812	8.812 (0.947)	129	8018841	2500.00	3104.1	70.00- 130.00	100.00
8.812	8.812 (0.947)	127	6257061			0.00- 30.00	78.03
124 1,2-Dibromoethane						CAS #: 106-93-4	
8.924	8.924 (0.959)	107	6222287	2500.00	2681.8	70.00- 130.00	100.00
8.924	8.924 (0.959)	109	5965985			64.58- 124.58	95.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	9205315	2500.00	2475.1	70.00- 130.00	100.00
9.330	9.330 (1.003)	114	3069865			2.47- 62.47	33.35
9.330	9.330 (1.003)	77	4664110			19.40- 79.40	50.67
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	4932879	2500.00	2635.1	70.00- 130.00	100.00
9.400	9.400 (1.011)	91	12537763			0.00- 30.00	254.17
131 m,p-Xylene					CAS #: 108-38-3		
9.498	9.498 (1.021)	106	6182706	2500.00	2642.2	70.00- 130.00	100.00
9.498	9.498 (1.021)	91	11124152			0.00- 30.00	179.92
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	5897885	2500.00	2637.7	70.00- 130.00	100.00
9.820	9.820 (1.056)	91	11224397			166.95- 226.95	190.31
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	9070089	2500.00	2816.9	70.00- 130.00	100.00
9.834	9.834 (1.057)	78	4311506			14.53- 74.53	47.54
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	8252966	2500.00	3362.3	70.00- 130.00	100.00
9.988	9.988 (1.074)	171	4425406			20.55- 80.55	53.62
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	12167370	2500.00	1861.7	70.00- 130.00	100.00
10.072	10.072 (1.083)	120	5106546			0.00- 30.00	41.97
10.072	10.072 (1.083)	51	1535671			0.00- 30.00	12.62
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.337	10.337 (1.111)	83	8002728	2500.00	2582.5	70.00- 130.00	100.00
10.337	10.337 (1.111)	85	5534819			36.42- 96.42	69.16
143 Propylbenzene					CAS #: 103-65-1		
10.351	10.351 (1.113)	91	12694267	2500.00	1663.8	70.00- 130.00	100.00
10.351	10.351 (1.113)	120	5433372			0.00- 30.00	42.80
10.351	10.351 (1.113)	105	847812			0.00- 30.00	6.68
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	13260342	2500.00	1930.4	70.00- 130.00	100.00
10.421	10.421 (1.120)	120	5815192			2.37- 62.37	43.85
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	13136401	2500.00	2314.8	70.00- 130.00	100.00
10.463	10.463 (1.125)	120	7168923			0.00- 30.00	54.57

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	11585271	2500.00	2213.5	70.00- 130.00	100.00
10.701	10.701 (1.150)	120	6407597			18.64- 78.64	55.31
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	9917880	2500.00	2368.4	70.00- 130.00	100.00
10.883	10.883 (1.170)	148	6665658			0.00- 30.00	67.21
10.883	10.883 (1.170)	111	3902831			0.00- 30.00	39.35
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	9843845	2500.00	2348.6	70.00- 130.00	100.00
10.939	10.939 (1.176)	148	6788536			0.00- 30.00	68.96
10.939	10.939 (1.176)	111	3825808			0.00- 30.00	38.86
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	9322905	2500.00	3281.6	70.00- 130.00	100.00
11.023	11.023 (1.185)	126	2485362			0.00- 30.00	26.66
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	8855821	2500.00	2290.7	70.00- 130.00	100.00
11.149	11.149 (1.199)	148	6184322			34.19- 94.19	69.83
11.149	11.149 (1.199)	111	3763596			9.07- 69.07	42.50
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.974	11.974 (1.287)	180	3770379	2500.00	1682.7	70.00- 130.00	100.00
11.974	11.974 (1.287)	182	3648213			64.84- 124.84	96.76
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.030	12.030 (1.293)	225	4262022	2500.00	2049.3	70.00- 130.00	100.00
12.030	12.030 (1.293)	223	2701468			31.62- 91.62	63.38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050410.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 2500ppbv (5000ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	325959	9.27
94 1,4-Difluorobenze	1131229	678737	1583721	1172700	3.67
125 Chlorobenzene-d5	1067777	640666	1494888	1125918	5.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050410.d

Date : 04-MAY-2010 14:02

Client ID: Level 10

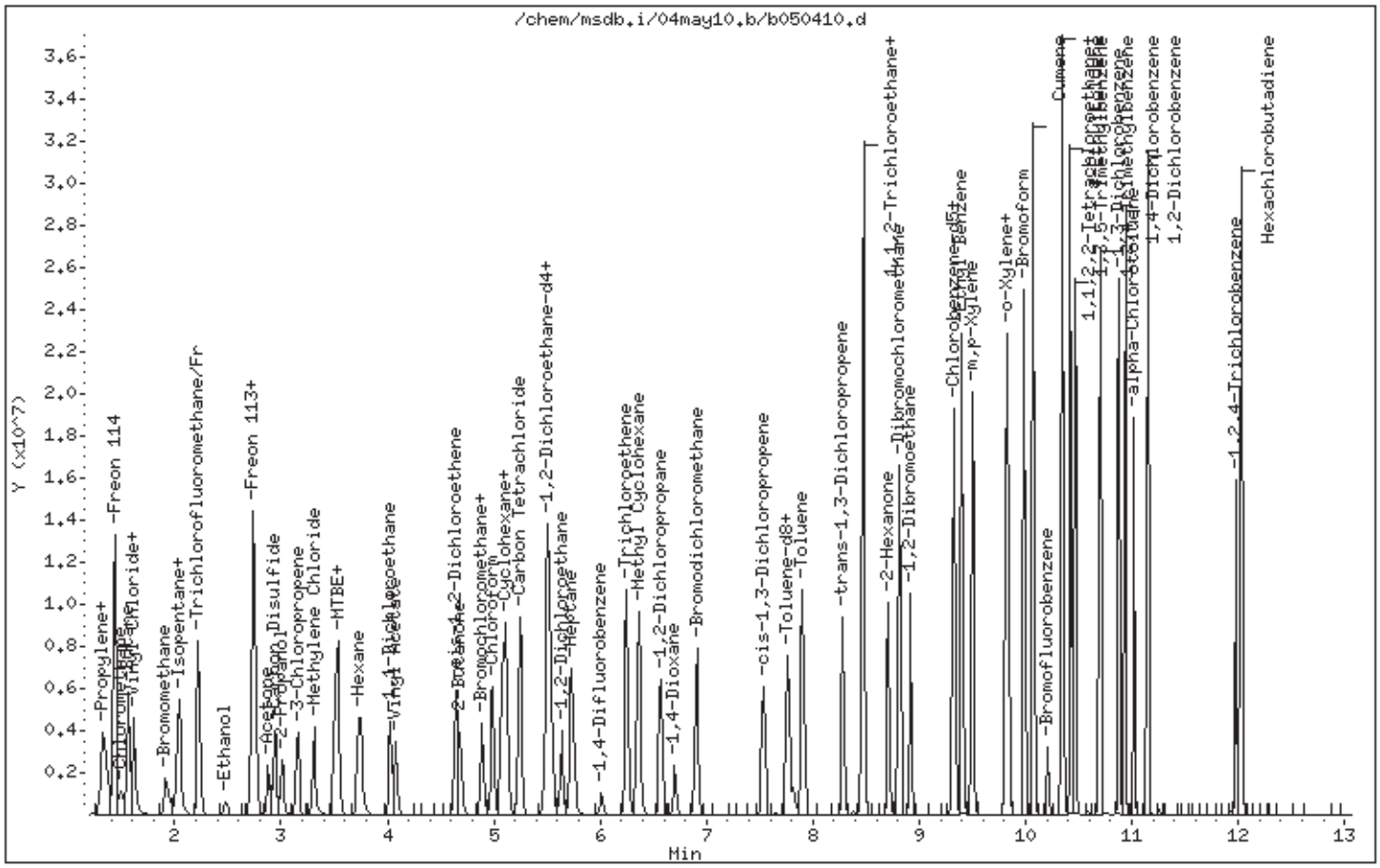
Instrument: msdb.i

Sample Info: 25ml #1968-5

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/04may10.b/b050411.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 04-MAY-2010 14:22
Operator : db Inst ID: msdb.i
Smp Info : 50l #1968-5
Misc Info : 5000ppbv (5000ppbv)
Comment :
Method : /chem/msdb.i/04may10.b/b1050504a.m
Meth Date : 08-May-2010 14:37 wwong Quant Type: ISTD
Cal Date : 04-MAY-2010 14:22 Cal File: b050411.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PCE.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
==	====== ========	====	========	=======	=======	==========	=====
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	314957	400.000		70.00- 130.00	100.00
4.909	4.909 (1.000)	128	247117			47.13- 107.13	78.46
4.895	4.895 (1.000)	49	338627			73.34- 133.34	107.52
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	1112172	400.000		70.00- 130.00	100.00
6.014	6.014 (1.000)	88	157576			0.00- 43.97	14.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	1076566	400.000		70.00- 130.00	100.00
9.302	9.302 (1.000)	82	521577			0.00- 30.00	48.45
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	342111	400.000	418.31	70.00- 130.00	100.00
5.552	5.552 (1.131)	67	237116			0.00- 30.00	69.31
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	1086527	400.000	405.75	70.00- 130.00	100.00
7.819	7.819 (1.300)	70	112540			0.00- 30.00	10.36

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
$ 110 Toluene-d8 (continued)							
7.763	7.763 (1.291)	100	2881296			0.00- 30.00	265.18
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	678590	400.000	408.84	70.00- 130.00	100.00
10.212	10.212 (1.098)	95	744290			82.64- 142.64	109.68
10.212	10.212 (1.098)	176	660385			67.24- 127.24	97.32
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	7284774	5000.00	5205.0	70.00- 130.00	100.00(A)
6.252	6.252 (1.040)	130	8545377			84.53- 144.53	117.30
6.252	6.252 (1.040)	97	4773662			36.61- 96.61	65.53
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	12972448	5000.00	5664.7	70.00- 130.00	100.00(A)
8.477	8.477 (0.911)	129	9760999			42.20- 102.20	75.24
8.477	8.477 (0.911)	131	9591384			40.52- 100.52	73.94

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b050411.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdb.i/04may10.b/b1050504a.m
Misc Info: 5000ppbv (5000ppbv)

Calibration Date: 04-MAY-2010
Calibration Time: 11:58
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	298298	178979	417617	314957	5.58
94 1,4-Difluorobenze	1131229	678737	1583721	1112172	-1.68
125 Chlorobenzene-d5	1067777	640666	1494888	1076566	0.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/04may10.b/b050411.d

Date : 04-MAY-2010 14:22

Client ID: Level 11

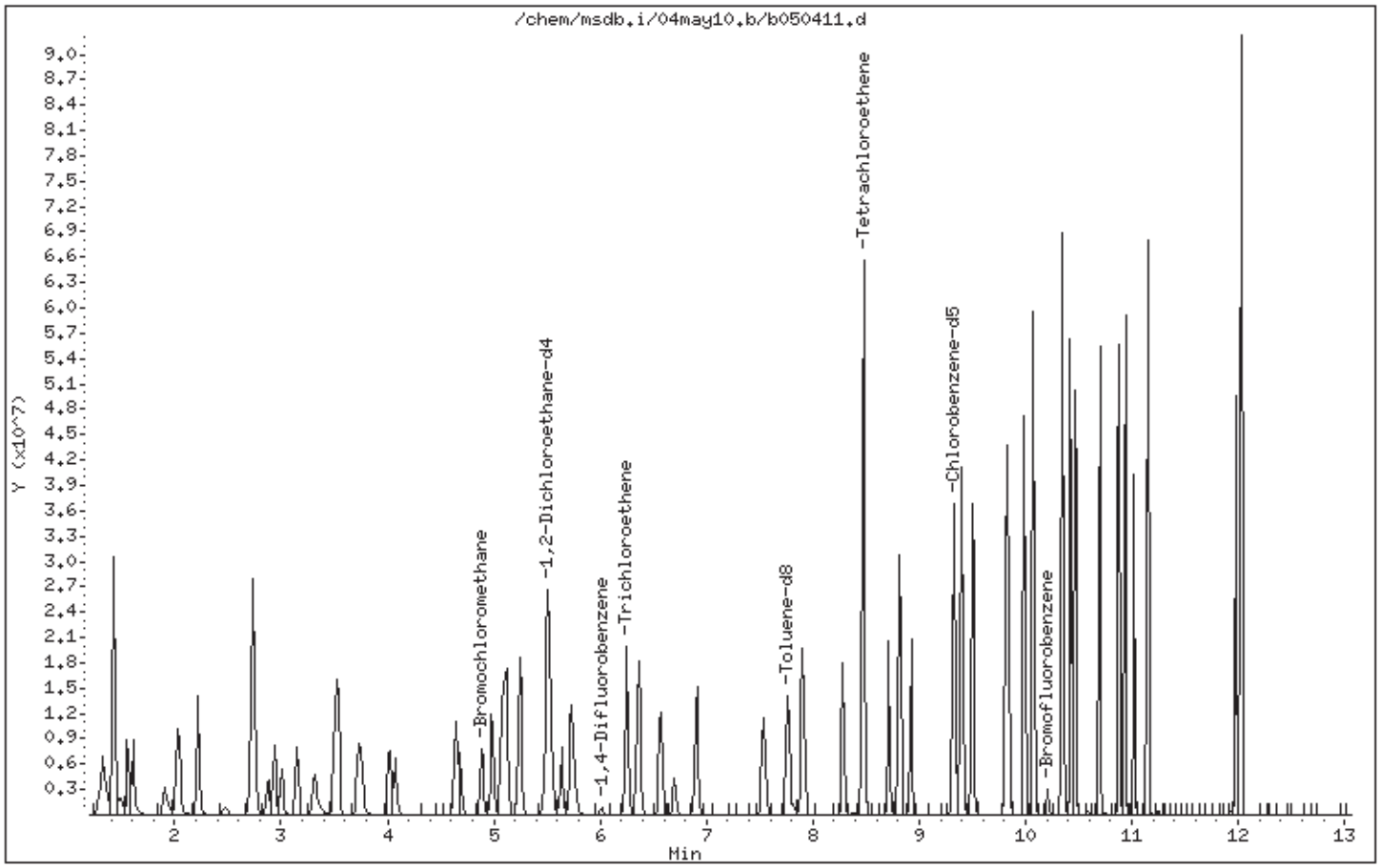
Instrument: msdb.i

Sample Info: 50l #1968-5

Operator: db

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdw.i/11may10.b/w051103.d
Level 2: /chem/msdw.i/11may10.b/w051104.d
Level 3: /chem/msdw.i/01jun10.b/w060104.d
Level 4: /chem/msdw.i/11may10.b/w051106.d
Level 5: /chem/msdw.i/01jun10.b/w060105.d
Level 6: /chem/msdw.i/01jun10.b/w060106.d
Level 7: /chem/msdw.i/11may10.b/w051109.d
Level 8: /chem/msdw.i/11may10.b/w051110.d
Level 9: /chem/msdw.i/11may10.b/w051111.d
Level 10: /chem/msdw.i/11may10.b/w051112.d

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
1 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
3 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
4 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
5 Propylene	+++++	+++++	0.99636	0.79071	0.79502	0.79401		
	+++++	0.93770	0.88230	0.79376			0.85569	9.866
6 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
7 Dichlorodifluoromethane/Fr12	+++++	2.91516	2.70995	2.48530	2.48843	2.59094		
	+++++	2.92409	2.78872	2.52790			2.67881	6.814
8 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
9 Freon 114	+++++	2.36052	2.08471	1.99041	1.97297	2.02447		
	+++++	2.35423	2.30908	2.13388			2.15378	7.615
10 Chloromethane	+++++	1.71032	1.31356	1.12089	1.13132	1.13723		
	+++++	1.18721	1.12327	0.99517			1.21487	17.993
11 Butane	+++++	+++++	0.33623	0.28924	0.30414	0.29337		
	+++++	0.33839	0.31952	0.30435			0.31218	6.306
12 Vinyl Chloride	+++++	1.27962	1.17294	1.05834	1.08455	1.08407		
	+++++	1.44006	1.30109	1.25300			1.20921	11.002
13 1,3-Butadiene	+++++	1.28170	0.89010	0.86223	0.87723	0.89530		
	+++++	1.26722	1.06879	1.10578			1.03104	17.040
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
15 Bromomethane	+++++	0.76791	0.86243	0.76652	0.83003	0.80973		
	+++++	1.04434	0.97398	0.87906			0.86675	11.340
16 Chloroethane	+++++	0.68274	0.63757	0.58002	0.56856	0.60362		
	+++++	0.69938	0.66479	0.60052			0.62965	7.757

Air Toxics Ltd.

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Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
17 Isopentane	+++++	+++++	1.58318	1.51699	1.45420	1.50180		
	+++++	1.71303	1.59206	1.42723			1.54121	6.300
18 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
19 Trichlorofluoromethane/Fr11	+++++	3.29669	3.08389	2.85940	2.84139	2.96557		
	+++++	3.43827	3.29389	2.98325			3.09530	7.196
20 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
21 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
22 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
23 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
24 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
25 Ethanol	+++++	+++++	0.52831	0.53449	0.46260	0.47979		
	+++++	0.53350	0.51718	0.46662			0.50321	6.418
26 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 1250.000 Level 8	20.000 Level 3 / 2500.000 Level 9	50.000 Level 4 / 5000.000 Level 10	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
27 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
29 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
30 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
31 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
32 Freon 113	+++++	2.01984	1.95519	1.73980	1.78791	1.85842		
	+++++	2.16327	2.08559	1.94381			1.94423	7.463
33 1,1-Dichloroethene	+++++	2.17702	2.08453	1.90148	1.89695	1.97426		
	+++++	2.26355	2.14299	1.96125			2.05025	6.664
34 Acetone	+++++	+++++	0.61290	0.55061	0.54209	0.57117		
	+++++	0.64548	0.61259	0.54680			0.58309	6.947
35 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
36 Carbon Disulfide	+++++	2.86946	2.65197	2.54212	2.50980	2.63165		
	+++++	2.87457	2.72183	2.43155			2.65412	6.092

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Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
37 2-Propanol	+++++	2.42907	2.30111	2.07476	2.09000	2.21407		
	+++++	2.60996	2.47279	2.21872			2.30131	8.235
38 3-Chloropropene	+++++	+++++	0.47827	0.42292	0.44004	0.46768		
	+++++	0.54054	0.51412	0.46380			0.47534	8.567
39 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
40 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
41 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
42 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
43 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
44 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
45 Methylene Chloride	+++++	1.76087	1.63869	1.60237	1.47997	1.57873		
	+++++	1.71066	1.59521	1.42325			1.59872	6.923
46 tert-Butyl-Alcohol	+++++	+++++	2.18639	1.71536	1.62919	1.42982		
	1.52871	+++++	+++++	+++++			1.69789	17.275

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Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
47 Bromoethane	*****	*****	*****	*****	*****	*****		
	*****	*****	*****	*****			*****	*****
48 MTBE	*****	2.83553	2.83436	2.52187	2.57985	2.64231		
	*****	3.26730	3.02782	2.75795			2.80837	8.770
50 2,3-Dimethylbutane	*****	*****	*****	*****	*****	*****		
	*****	*****	*****	*****			*****	*****
49 trans-1,2-Dichloroethene	*****	1.22838	1.21065	1.05370	1.07497	1.07320		
	*****	1.26642	1.20594	1.10752			1.15260	7.263
51 Acrylonitrile	*****	*****	*****	*****	*****	*****		
	*****	*****	*****	*****			*****	*****
52 Hexane	*****	2.54124	2.34517	2.11636	2.05667	2.11219		
	*****	2.44680	2.31470	2.09062			2.25297	8.156
53 Isopropyl ether	*****	*****	5.06075	4.52111	4.54789	4.68066		
	4.82320	*****	*****	*****			4.72672	4.698
54 1-Hexene	*****	*****	*****	*****	*****	*****		
	*****	*****	*****	*****			*****	*****
55 1,1-Dichloroethane	*****	2.36398	2.28543	2.09417	2.12838	2.17419		
	*****	2.50999	2.38451	2.15103			2.26146	6.548
56 Propanal	*****	*****	*****	*****	*****	*****		
	*****	*****	*****	*****			*****	*****

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
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Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 1250.000 Level 8	20.000 Level 3 / 2500.000 Level 9	50.000 Level 4 / 5000.000 Level 10	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
57 Ethanol-high	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
58 Vinyl Acetate	*****	*****	0.23843	0.25125	0.26601	0.28373		
	*****	0.35239	0.34037	0.31458			0.29239	15.147
59 Chloroprene	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
60 1-Propanol	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
61 2,4-Dimethylpentane	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
62 Methyl Acrylate	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
63 Ethyl-tert-butyl Ether	*****	*****	4.06087	3.65759	3.80086	3.96548		
	4.16210	*****	*****	*****			3.92938	5.140
64 3-Methyl-1-Hexene	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
65 Butanal	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****
66 2-Butanol	*****	*****	*****	*****	*****	*****	*****	*****
	*****	*****	*****	*****			*****	*****

Air Toxics Ltd.

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Curve Type : Average

	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
Compound	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
67 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
M 69 1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
68 cis-1,2-Dichloroethene	+++++	1.83496	1.74020	1.54840	1.56178	1.64517		
	+++++	1.90706	1.81455	1.65498			1.71339	7.690
70 2-Butanone	+++++	0.50479	0.49977	0.47303	0.50473	0.52946		
	+++++	0.62655	0.60173	0.55547			0.53694	9.996
71 Ethyl Acetate	+++++	+++++	0.17705	+++++	0.17786	0.18968		
	+++++	+++++	+++++	+++++			0.18153	3.895
72 Tetrahydrofuran	+++++	1.71240	1.55305	1.46733	1.48209	1.53841		
	+++++	1.81298	1.70805	1.53316			1.60093	7.888
74 Chloroform	+++++	2.28296	2.28173	2.07173	2.10603	2.15519		
	+++++	2.58466	2.43522	2.22301			2.26757	7.605
75 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
76 Cyclohexane	+++++	1.81972	1.59005	1.45243	1.51044	1.54706		
	+++++	1.86415	1.77611	1.64784			1.65098	9.250
77 1,1,1-Trichloroethane	+++++	2.59110	2.56527	2.26081	2.32576	2.38741		
	+++++	2.89475	2.78727	2.59005			2.55030	8.629

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Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
78 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
79 Carbon Tetrachloride	+++++	2.52393	2.54201	2.35722	2.42606	2.52282		
	+++++	3.10424	2.96692	2.70842			2.64395	10.002
80 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
82 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
83 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
85 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
84 2,2,4-Trimethylpentane	+++++	7.56764	6.97594	6.24924	6.37558	6.56845		
	+++++	7.73037	7.33893	6.68892			6.93688	8.037
86 Benzene	0.92392	0.89131	0.84951	0.77085	0.78547	0.81304		
	+++++	0.98970	0.97391	0.94305			0.88231	9.234
87 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

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Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 1250.000 Level 8	20.000 Level 3 / 2500.000 Level 9	50.000 Level 4 / 5000.000 Level 10	100.000 Level 5	200.000 Level 6	RRF	% RSD
89 tert-amyl-Methyl Ether	+++++ / 3.35386	+++++ / +++++	3.32954 / +++++	3.04765 / +++++	3.07266	3.21766	3.20427	4.416
90 1,2-Dichloroethane	+++++ / +++++	0.49670 / 0.53841	0.45664 / 0.51468	0.42651 / 0.47672	0.44198	0.46014	0.47647	7.953
91 Heptane	+++++ / +++++	0.31862 / 0.37417	0.33167 / 0.36286	0.30203 / 0.34597	0.29051	0.31298	0.32985	8.912
92 Thiophene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
94 1-Butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
95 Trichloroethene	+++++ / +++++	0.72751 / 0.46189	0.65080 / 0.45073	0.37524 / 0.42748	0.36241	0.38325	0.47991	28.236
96 Methyl Methacrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
97 Methyl Cyclohexane	+++++ / +++++	0.53479 / 0.65532	0.57069 / 0.63458	0.50273 / 0.59658	0.51894	0.54617	0.56997	9.632
98 1,2-Dichloropropane	+++++ / +++++	0.37592 / 0.41702	0.35080 / 0.39941	0.33054 / 0.37355	0.32693	0.33951	0.36421	9.027
99 2-Pentanone	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++

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	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
100 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
102 1,4-Dioxane	+++++	+++++	0.20135	0.18408	0.19492	0.20271		
	+++++	0.24109	0.23364	0.22177			0.21137	9.995
103 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
104 Bromodichloromethane	+++++	0.61131	0.59750	0.55810	0.56260	0.60864		
	+++++	0.76648	0.75321	0.71280			0.64633	13.090
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
106 cis-1,3-Dichloropropene	+++++	0.42617	0.43145	0.39838	0.43224	0.45437		
	+++++	0.57643	0.56473	0.53331			0.47713	14.630
107 4-Methyl-2-pentanone	+++++	0.10509	0.11433	0.10814	0.11233	0.11652		
	+++++	0.14913	0.14650	0.14411			0.12452	14.980
200 NewCpnd_176	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
109 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 1250.000 Level 8	20.000 Level 3 / 2500.000 Level 9	50.000 Level 4 / 5000.000 Level 10	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
110 Decane	***** / *****	***** / *****	***** / *****	***** / *****	*****	*****	*****	*****
111 Dicyclopentadiene	***** / *****	***** / *****	***** / *****	***** / *****	*****	*****	*****	*****
112 D-Limonene	***** / *****	***** / *****	***** / *****	***** / *****	*****	*****	*****	*****
113 trans-1,4-dichloro-2-butene	***** / *****	***** / *****	***** / *****	***** / *****	*****	*****	*****	*****
114 Toluene	***** / *****	1.20464 / 1.32667	1.12940 / 1.30224	1.02071 / 1.23050	1.04296	1.08536	1.16781	9.928
115 beta-Pinene	***** / *****	***** / *****	***** / *****	***** / *****	*****	*****	*****	*****
116 Alphamethylstyrene	***** / *****	***** / *****	***** / *****	***** / *****	*****	*****	*****	*****
117 trans-1,3-Dichloropropene	***** / *****	0.48549 / 0.62922	0.47354 / 0.61413	0.44616 / 0.57337	0.45978	0.48409	0.52072	14.028
118 1,1,2-Trichloroethane	***** / *****	0.40601 / 0.45399	0.37744 / 0.44036	0.33841 / 0.42423	0.35688	0.35910	0.39455	10.822
119 Tetrachloroethene	***** / *****	0.56790 / 0.67141	0.57242 / 0.66676	0.49690 / 0.66041	0.52191	0.52903	0.58584	12.097

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 1250.000 Level 8	20.000 Level 3 / 2500.000 Level 9	50.000 Level 4 / 5000.000 Level 10	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
120 Bis(2-chloroethyl) ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
121 1,3-Dichloropropane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
122 2-Hexanone	+++++ / +++++	+++++ / 0.54934	0.45482 / 0.54068	0.39497 / 0.50736	0.43069	0.46103	0.47698	12.052
123 Undecane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
124 Dibromochloromethane	+++++ / +++++	0.64573 / 0.92433	0.67134 / 0.91864	0.61094 / 0.88392	0.64910	0.69188	0.74948	17.952
125 1,2-Dibromoethane	+++++ / +++++	0.57396 / 0.73860	0.60686 / 0.72864	0.55180 / 0.69780	0.56899	0.59727	0.63299	12.037
127 Chlorobenzene	+++++ / +++++	1.01283 / 1.18914	1.08905 / 1.14637	0.90120 / 1.07173	0.92925	0.96337	1.03787	9.978
128 1-chloro-2-Bromopropane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
129 Ethyl Benzene	+++++ / +++++	0.48017 / 0.59389	0.50511 / 0.58511	0.43465 / 0.57783	0.45555	0.47936	0.51396	12.228
130 1,1,1,2-Tetrachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
M 131 Total Xylenes	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
132 m,p-Xylene	+++++	0.61820	0.64439	0.54685	0.58091	0.60171		
	+++++	0.75778	0.75234	0.72613			0.65354	12.481
133 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
134 o-Xylene	+++++	0.59232	0.59775	0.50654	0.53220	0.56579		
	+++++	0.72400	0.74687	0.73742			0.62536	15.439
135 Styrene	+++++	0.90453	0.90183	0.79323	0.84640	0.89722		
	+++++	1.15051	1.18221	1.13158			0.97594	15.693
136 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
137 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
138 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
139 Bromoform	+++++	0.49118	0.51667	0.44988	0.49752	0.56017		
	+++++	0.80839	0.83909	0.84058			0.62543	27.476
140 Cumene	+++++	1.85440	1.86694	1.53167	1.65204	1.73376		
	+++++	2.19733	2.15404	1.59072			1.82261	13.577

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 1250.000 Level 8	20.000 Level 3 / 2500.000 Level 9	50.000 Level 4 / 5000.000 Level 10	100.000 Level 5	200.000 Level 6	RRF	% RSD
141 Cyclohexanone	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
144 Bromobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
143 1,1,2,2-Tetrachloroethane	+++++ / 0.92895	0.83332 / 0.95489	0.82694 / 0.96929	0.65580	0.69958	0.72807	0.82460	14.662
145 Propylbenzene	+++++ / 2.35806	2.09926 / 2.33521	2.14222 / 2.02164	1.68871	1.80016	1.89706	2.04279	11.759
146 1,2,3-Trichloropropane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
147 4-Ethyltoluene	+++++ / 2.23131	1.79438 / 2.21392	1.97678 / 1.55920	1.53973	1.67193	1.74973	1.84212	14.783
148 2-Chlorotoluene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
149 1,3,5-Trimethylbenzene	+++++ / 1.75298	1.66553 / 1.79998	1.73765 / 1.86981	1.35484	1.46176	1.51809	1.64508	10.997
150 4-Chlorotoluene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
151 Diisobutyl Ketone	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
152 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
153 1,2,4-Trimethylbenzene	+++++	1.46583	1.49635	1.11410	1.24670	1.31981		
	+++++	1.58019	1.67859	1.44116			1.41784	12.910
154 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
155 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
156 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
157 1,3-Dichlorobenzene	+++++	0.98126	1.04619	0.77008	0.83994	0.84937		
	+++++	1.02250	1.08751	1.15800			0.96936	14.019
159 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
158 1,4-Dichlorobenzene	+++++	1.07450	1.12533	0.79514	0.87202	0.90422		
	+++++	1.10386	1.19883	1.22297			1.03711	15.367
160 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
161 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
162 alpha-Chlorotoluene	+++++	0.85498	1.04536	0.77598	0.92878	1.04104		
	+++++	1.19703	1.29904	1.29140			1.05420	18.619
163 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
164 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
165 1,2-Dichlorobenzene	+++++	0.91683	0.95217	0.66425	0.74920	0.78102		
	+++++	0.88050	1.00268	1.06235			0.87613	15.446
166 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
167 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
168 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
169 1,2,4-Trichlorobenzene	+++++	+++++	0.52971	0.35882	0.44951	0.43909		
	+++++	0.18709	0.26121	0.38134			0.37240	31.413 <-
170 Hexachlorobutadiene	+++++	+++++	0.27995	0.22952	0.28086	0.26572		
	+++++	0.13957	0.18814	0.29555			0.23990	24.005
171 Naphthalene	+++++	+++++	1.10647	0.78846	0.95401	0.98149		
	0.76667	+++++	+++++	+++++			0.91942	15.432

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 12:46 llarson
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
172 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
173 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
174 2-methyl-naphthalene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
175 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
201 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
$ 88 1,2-Dichloroethane-d4	1.32735	1.30409	1.31523	1.29755	1.29268	1.27704		
	1.29652	1.34073	1.42894	1.56197			1.34421	6.512
$ 108 Toluene-d8	0.96108	0.95316	0.96159	0.96737	0.95994	0.96833		
	0.95052	0.96805	0.98852	0.98386			0.96624	1.254
$ 142 Bromofluorobenzene	0.56289	0.55770	0.56146	0.56449	0.56904	0.57559		
	0.54580	0.54698	0.56326	0.54593			0.55931	1.823

Calibration History

Method : /chem/msdw.i/01jun10.b/w1050511b.m
Start Cal Date: 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 3.00000		
11-MAY-2010 12:22	Benzene	/chem/msdw.i/11may10.b/w051103.d
Cal Level: 2 , Cal Amount: 5.00000		
11-MAY-2010 13:18	AT09low	/chem/msdw.i/11may10.b/w051104.d
Cal Level: 3 , Cal Amount: 20.00000		
01-JUN-2010 18:06	EthAceICAL	/chem/msdw.i/01jun10.b/w060104.d
11-MAY-2010 14:10	AT09MDL	/chem/msdw.i/11may10.b/w051105.d
Cal Level: 4 , Cal Amount: 50.00000		
11-MAY-2010 15:51	AT09	/chem/msdw.i/11may10.b/w051106.d
Cal Level: 5 , Cal Amount: 100.00000		
01-JUN-2010 18:28	EthAceICAL	/chem/msdw.i/01jun10.b/w060105.d
11-MAY-2010 16:29	AT09	/chem/msdw.i/11may10.b/w051107.d
Cal Level: 6 , Cal Amount: 200.00000		
01-JUN-2010 18:54	EthAceICAL	/chem/msdw.i/01jun10.b/w060106.d
11-MAY-2010 17:28	AT09	/chem/msdw.i/11may10.b/w051108.d
Cal Level: 7 , Cal Amount: 1000.00000		
11-MAY-2010 17:57	NaOxy	/chem/msdw.i/11may10.b/w051109.d
Cal Level: 8 , Cal Amount: 1250.00000		

11-MAY-2010 18:17	AT09High	/chem/msdw.i/11may10.b/w051110.d
Cal Level: 9 , Cal Amount: 2500.00000		
11-MAY-2010 18:36	AT09High	/chem/msdw.i/11may10.b/w051111.d
Cal Level: 10, Cal Amount: 5000.00000		
11-MAY-2010 19:44	AT09High	/chem/msdw.i/11may10.b/w051112.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 200.00		
01-JUN-2010 18:28	EthAce	/chem/msdw.i/01jun10.b/w060105a.d
Ccal Level: 6 , Ccal Amount: 200.00		
01-JUN-2010 18:54	EthAceICAL	/chem/msdw.i/01jun10.b/w060106.d

LL 6/2/10
JP 6/2/10

Report Date : 02-Jun-2010 10:13 Page 1

ICAL: 1-out, 1,2,4 TCB (31% RSD)
Icv: 0 out

OK for AFCEE
MDL - 10/16/09

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 11-MAY-2010 12:22
End Cal Date : 01-JUN-2010 18:54
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdw.i/01jun10.b/w1050511b.m
Cal Date : 02-Jun-2010 10:13 llarson
Curve Type : Average

- Top of curve is 1000ppbv: 4/6/10 Naphthalene, TBA, EtBE, TAME and Isopropyl Ether.
- Top of curve to 200ppbv: Ethyl Acetate.
- Top of curve to 5000ppbv: All other compounds.
- 3pt Ethyl Acetate curve at concentrations: 25, 100, and 200 ppbv.

Calibration File Names:
Level 1: /chem/msdw.i/11may10.b/w051103.d
Level 2: /chem/msdw.i/11may10.b/w051104.d
Level 3: /chem/msdw.i/01jun10.b/w060104.d
Level 4: /chem/msdw.i/11may10.b/w051106.d
Level 5: /chem/msdw.i/01jun10.b/w060105.d
Level 6: /chem/msdw.i/01jun10.b/w060106.d
Level 7: /chem/msdw.i/11may10.b/w051109.d
Level 8: /chem/msdw.i/11may10.b/w051110.d
Level 9: /chem/msdw.i/11may10.b/w051111.d
Level 10: /chem/msdw.i/11may10.b/w051112.d

50mL Load

LCS: w051115.d

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	1250.000 Level 8	2500.000 Level 9	5000.000 Level 10				
ppbv								
1 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
3 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
4 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
5 Propylene	+++++	+++++	0.99636	0.79071	0.79502	0.79401		
	+++++	0.93770	0.88230	0.79376			0.85569	9.866
6 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++

Initial Calibration Narrative

A ten-point calibration of TO-15 compounds was analyzed on 05/11/2010 on MSD-W. The resulting response factors are updated in calibration W1050511a.m.

Benzene used 3.0 ppbv as the lowest calibration concentration.

All compounds are calibrated to 5000ppbv except the following:

Naphthalene, tert-Butyl Alcohol, Isopropyl Ether, Ethyl tert-Butyl Ether, and tert-Amyl Methyl Ether are calibrated to 1000ppbv.

A three point calibration curve was performed on Ethyl Acetate on 06/01/2010. The resulting response factors are updated in calibration W1050511b.m.

@ Air Toxics Ltd.

MSD-W

Logbook #: 1935

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	21.24
75	30.0 – 60.0% of mass 95	45.42
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.91
173	Less than 2.0% of mass 174	0.61 (0.79)[1]
174	50.0 – 100% of mass 95	77.84
175	5.0 – 9.0% of mass 174	5.60 (7.20)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	75.69 (97.24)[1]
177	5.0 – 9.0% of mass 176	4.84 (6.39)[2]

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

Verify 176/174 m/z Ratio: 192341 / 197802 X100 = 97.24%

BFB Injection Date: 5/11/10

BFB Injection Time: 1107

BFB File ID: W051101

Tekmar Purge Flow: —

Vacuum: — 5/4/10

IS/S Std.#: 1830-30	Exp. Date: 07/26/10	
BCM 5/12/10 ~~124054~~	122520	
1,4-DFB	473703	464051
CB-d5	~~458704~~	453275

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

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 449354\ )}{(\ 464051\ )} \times \frac{(\ 400\ )}{(\ 0.96624\ )} = 400.86$$

File ID:	W051108
Compound:	Toluene-d8
Initials:	ww

Reported Result 400.86

Method: w10505Ma.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	W051101	1476 - 1574	BFB	50 ng	2.0 mL	1.00	ky	5/11/10	1107	ky/ww	
2	✓	02	System Blank	34744	NA	50 mL				1127	ww	
3	✓	03	1936-138 ICAL-1	35997	3.0 ppbv	0.75 mL				1222	ww	
4	✓	04	-2		5.0 ppbv	1.25 mL				1318	ww	
5	✓	05	-3		20 ppbv	5.0 mL				1410	ww	
6	✓	06	-4		50 PPbv	12.5 mL		gk		1551	ww	
7	✓	07	-5		100 PPbv	25 mL				1629	ww	
8	✓	08	-6		200 PPbv	50 mL				1728	ww	
9	✓	09	1936 -110 Ical-7	94916	1000 ppbv	↓	↓	↓	↓	1757	ww	

Signature

5/12/10
Date

@ Air Toxics Ltd.

MSD-W

Logbook #: 1935

10	✓	W051110	1968-5	ical - 8	13861	1250 PPbv	12.5ml	1:100	gal	5/11/10	1817	ww	
11	✓	11		- 9		2500 PPbv	25ml				1836	ww	
12	✓	12		- 10		5000 PPbv	50ml				1944	ww	
13	X	13	System Blank		34744	Humid					2018	ww	
14	✓	14	System Blank		1936						2034	ww	
15	✓	15	ICV (200ppbv)		1941	200ppbv	50ml	1:100	ww	5/12/10	0249	ww	
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32											ww	5/12/10	
33													

Comments: Flow Controller # 9052033

Flow Meter # 1-8812, Exp. 06/20/10

	Actual	Nominal
	25.0 mL/min	22.2 mL/min.

Signature

5/12/10
Date

@ Air Toxics Ltd.

MSD-W

Logbook #: 1935

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.53
75	30.0 – 60.0% of mass 95	44.49
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.95
173	Less than 2.0% of mass 174	0.59 (0.71)[1]
174	50.0 – 100% of mass 95	83.46
175	5.0 – 9.0% of mass 174	5.95 (7.13)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	81.40 (97.52)[1]
177	5.0 – 9.0% of mass 176	5.21 (6.40)[2]

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

BFB Injection Date: 6/1/10
BFB Injection Time: 1541
BFB File ID: W060101
Tekmar Purge Flow: 2
Vacuum: gd 6/1/10

IS/S Std.#: 1830-30	Exp. Date: 7/26/10
BCM 148793	
1,4-DFB 563462	
CB-d5 550066	

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

Verify 176/174 m/z Ratio: 213248 / 218688 x 100 = 97.51 %

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 535754\ )}{(\ 563462\ )} \times \frac{(\ 400\ )}{(\ 0.96624\ )} = 393.62$

Reported Result 393.62

File ID:	W060102
Compound:	toluene-d8
Initials:	gd

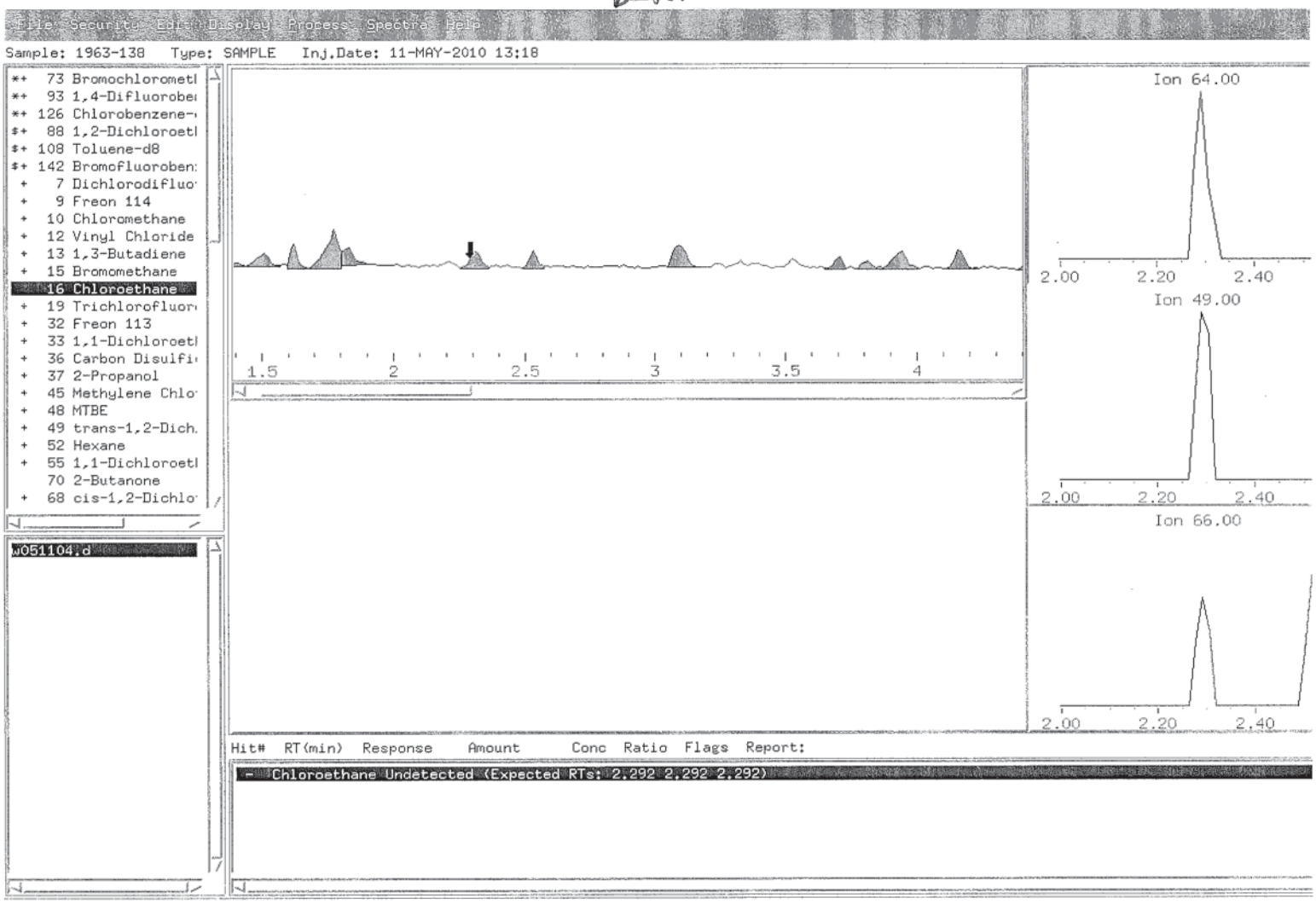
Method: W105051 b.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	W060101	1476-1514 BFB	NA	50 ng	2.0 mL	1.00	gd	6/1/10	1541	gd/RO	
2	✓	02	1936-138 CCV	35997	200 PPBV	50 mL				1600		1 out
3	✓	03	1936-141 LCS	907	"	↓				1738		2 out
4	✓	04	1968-8 Ethyl Acetate	34361	200PPBV → 20 ppbv	5.0mL				1806		Level 3
5	✓	05	↓	"	200PPBV → 100PPBV	25 mL				1828		Level 5
6	✓	06	↓	"	200PPBV	50 mL				1854		Level 6
7	✓	07	Lab Blank	34764	Humid	"	↓			2054		
8	✓	08	1005489 - 01A	13655	7" Hg → 5 psi	2.5mL	35.0			2147		
9	✓	09	↓ - 03A	902	↓	2.0mL	45.8	↓	↓	2217	↓	

gd
Signature

6/1/10
Date

Before


File Security Edit Display Process Spectra Help
Sample: 1963-138 Type: SAMPLE Inj.Date: 11-MAY-2010 13:18
** 73 Bromochlorometl
** 93 1,4-Difluorobe
** 126 Chlorobenzene-
$+ 88 1,2-Dichloroetl
$+ 108 Toluene-d8
$+ 142 Bromofluoroben
+ 7 Dichlorodifluo
+ 9 Freon 114
+ 10 Chloromethane
+ 12 Vinyl Chloride
+ 13 1,3-Butadiene
+ 15 Bromomethane
16 Chloroethane
+ 19 Trichlorofluor
+ 32 Freon 113
+ 33 1,1-Dichloroetl
+ 36 Carbon Disulfi
+ 37 2-Propanol
+ 45 Methylene Chlo
+ 48 MTBE
+ 49 trans-1,2-Dich.
+ 52 Hexane
+ 55 1,1-Dichloroetl
70 2-Butanone
+ 68 cis-1,2-Dichlo
1.5
2
2.5
3
3.5
4
Ion 64.00
2.00
2.20
2.40
Ion 49.00
2.00
2.20
2.40
Ion 66.00
2.00
2.20
2.40
W051104.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
- Chloroethane Undetected (Expected RTs: 2.292 2.292 2.292)

CCV Initial	5/12/10
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	X
Merged Peaks	

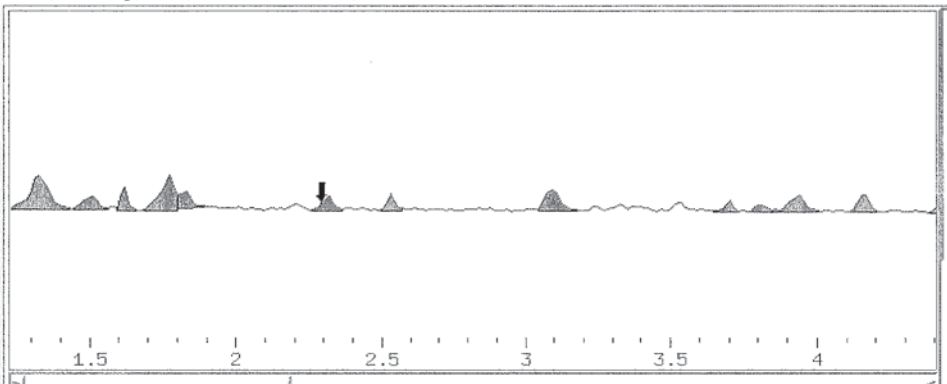
5/13/10

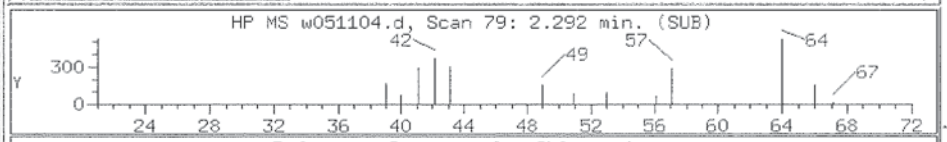
After

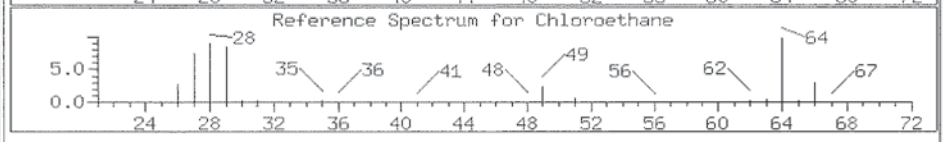
File Security Edit Display Process Spectra Help

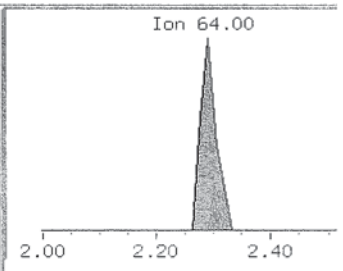
Sample: 1963-138 Type: CALIB_2 Inj.Date: 11-MAY-2010 13:18

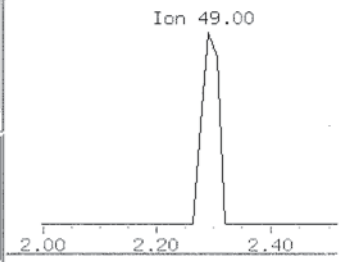
```
**  73 Bromochloromethl
**  93 1,4-Difluorober
** 126 Chlorobenzene-d
$+  88 1,2-Dichloroetl
$+ 108 Toluene-d8
$+ 142 Bromofluoroben:
 +   7 Dichlorodifluo
 +   9 Freon 114
 +  10 Chloromethane
 +  12 Vinyl Chloride
 +  13 1,3-Butadiene
 +  15 Bromomethane
*!  16 Chloroethane
 +  19 Trichlorofluor
 +  32 Freon 113
 +  33 1,1-Dichloroetl
 +  36 Carbon Disulfi
 +  37 2-Propanol
 +  45 Methylene Chlo
 +  48 MTBE
 +  49 trans-1,2-Dich.
 +  52 Hexane
 +  55 1,1-Dichloroetl
+!  70 2-Butanone
 +  68 cis-1,2-Dichlo
```

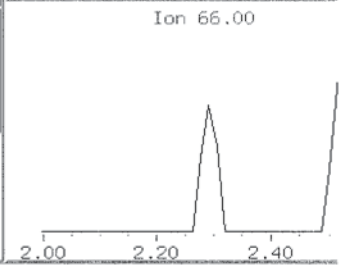










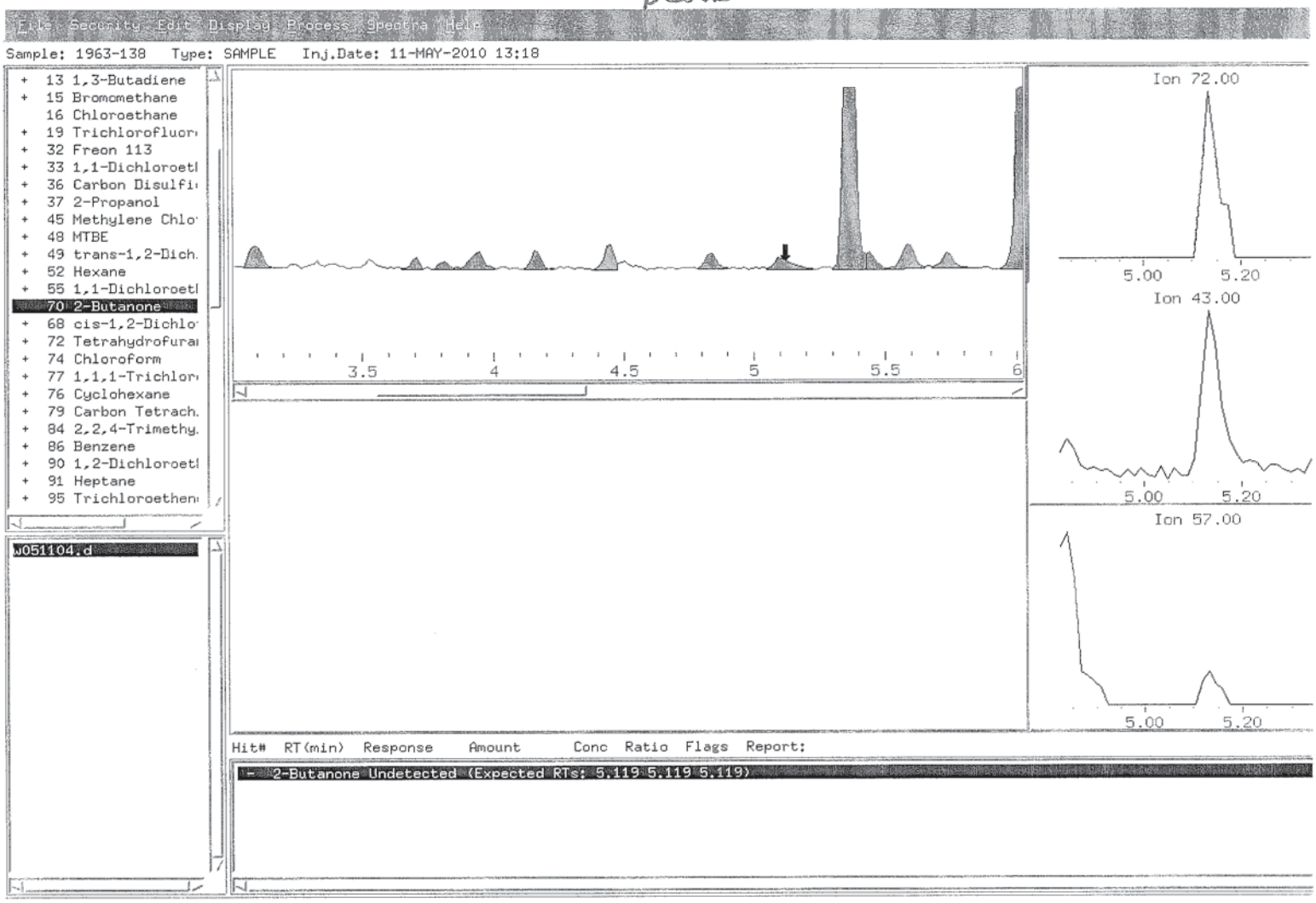


w051104.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.292	986	5.422	5.422	100	M	
	2.292	0			0		
	2.292	0			0		

- Mark Chloroethane Undetected.

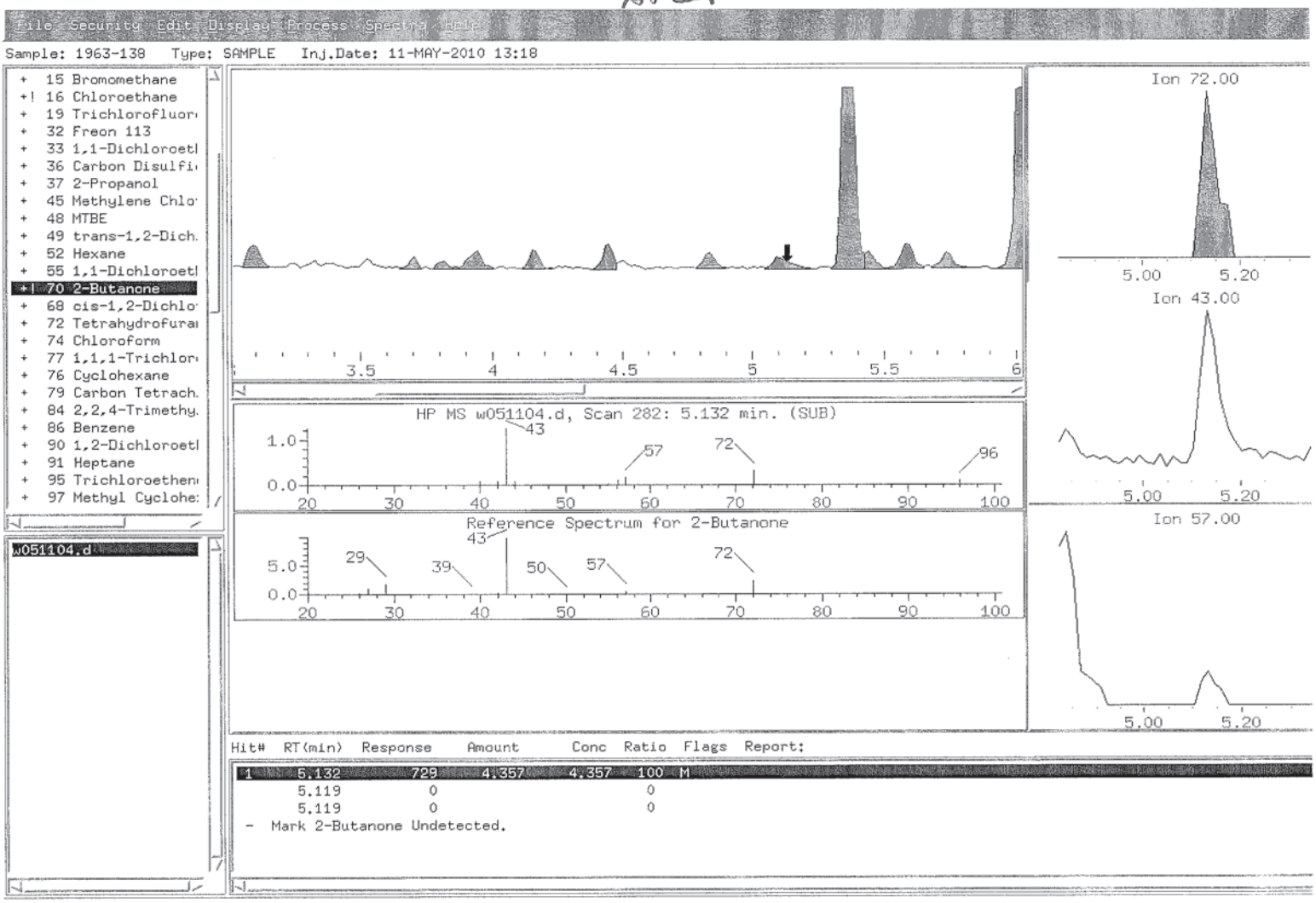
Before


File Security Edit Display Process Spectra Help
Sample: 1963-138 Type: SAMPLE Inj.Date: 11-MAY-2010 13:18
+ 13 1,3-Butadiene
+ 15 Bromomethane
16 Chloroethane
+ 19 Trichlorofluor
+ 32 Freon 113
+ 33 1,1-Dichloroetl
+ 36 Carbon Disulfi
+ 37 2-Propanol
+ 45 Methylene Chlo
+ 48 MTBE
+ 49 trans-1,2-Dich.
+ 52 Hexane
+ 55 1,1-Dichloroetl
70 2-Butanone
+ 68 cis-1,2-Dichlo
+ 72 Tetrahydrofura
+ 74 Chloroform
+ 77 1,1,1-Trichlor
+ 76 Cyclohexane
+ 79 Carbon Tetrach.
+ 84 2,2,4-Trimethy.
+ 86 Benzene
+ 90 1,2-Dichloroetl
+ 91 Heptane
+ 95 Trichloroethen
3.5
4
4.5
5
5.5
6
Ion 72.00
5.00
5.20
Ion 43.00
5.00
5.20
Ion 57.00
5.00
5.20
w051104.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
2-Butanone Undetected (Expected RTs: 5.119 5.119 5.119)

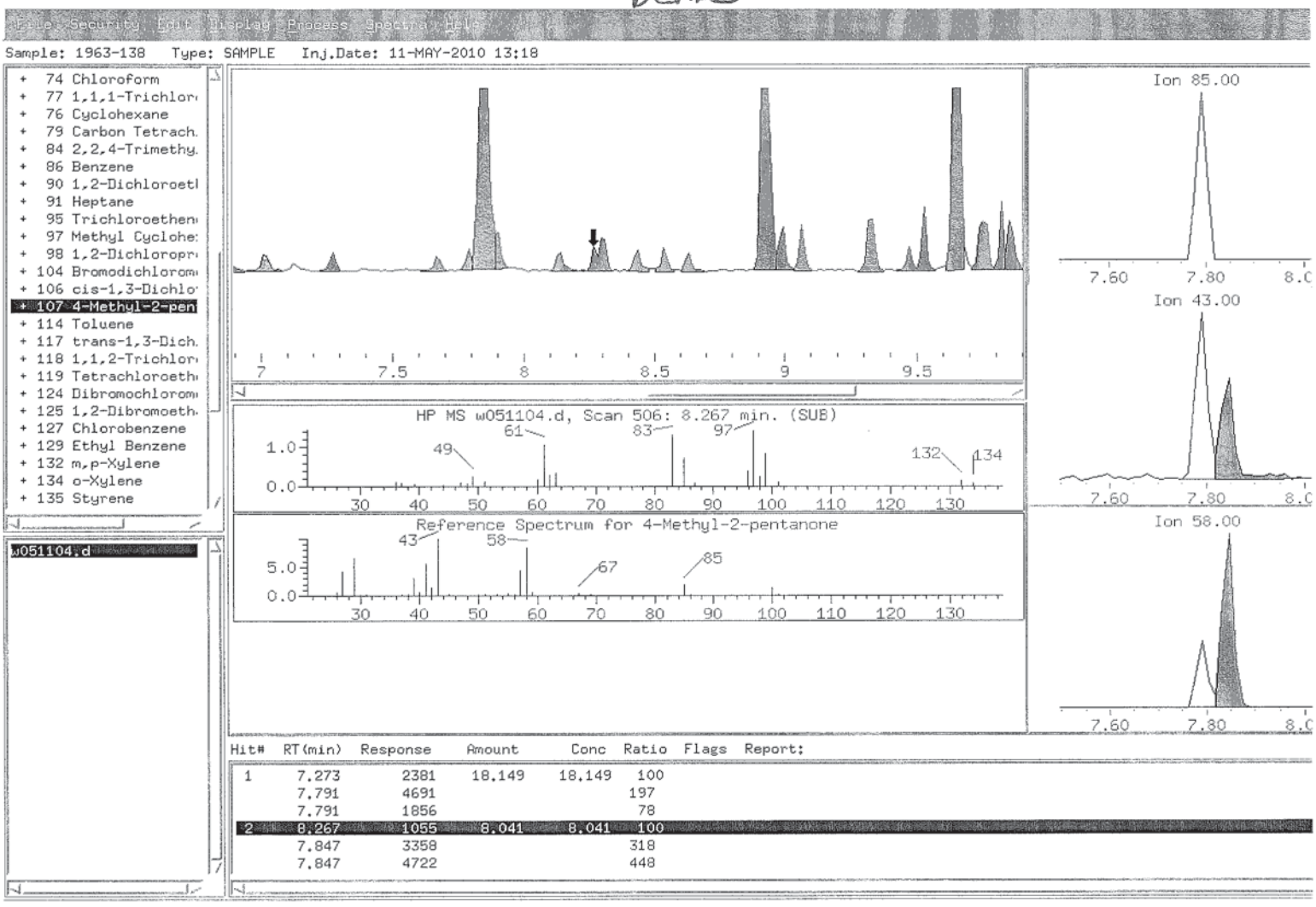
Initial	5/12/10 MW
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	X
Merged Peaks	

5/13/10

After



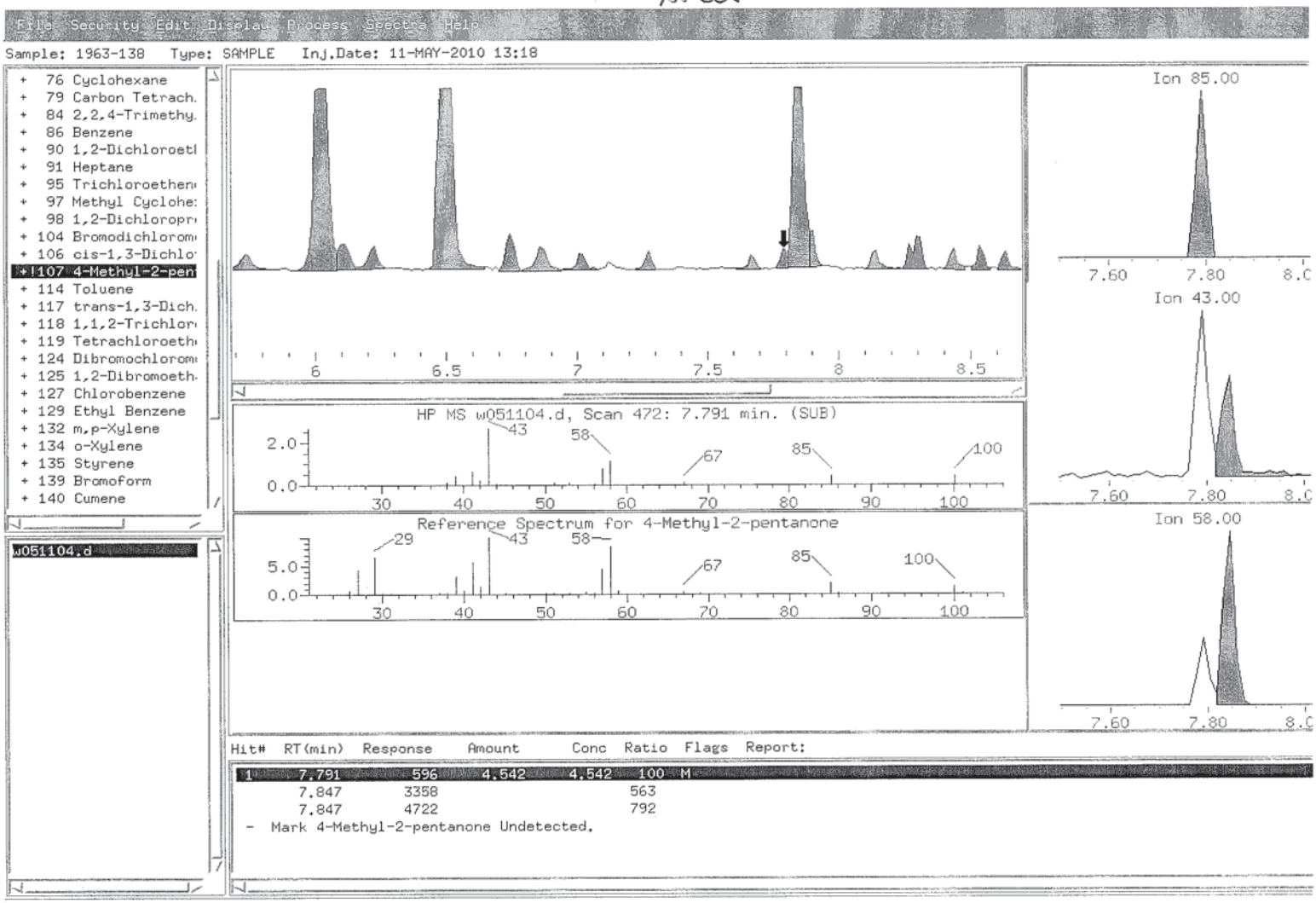
Before


File Security Edit Display Process Spectra Help
Sample: 1963-138 Type: SAMPLE Inj.Date: 11-MAY-2010 13:18
+ 74 Chloroform
+ 77 1,1,1-Trichlor
+ 76 Cyclohexane
+ 79 Carbon Tetrach.
+ 84 2,2,4-Trimethy.
+ 86 Benzene
+ 90 1,2-Dichloroetl
+ 91 Heptane
+ 95 Trichloroethen
+ 97 Methyl Cyclohe
+ 98 1,2-Dichloropr
+ 104 Bromodichlorom
+ 106 cis-1,3-Dichlo
+ 107 4-Methyl-2-pen
+ 114 Toluene
+ 117 trans-1,3-Dich.
+ 118 1,1,2-Trichlor
+ 119 Tetrachloroeth
+ 124 Dibromochlorom
+ 125 1,2-Dibromoeth.
+ 127 Chlorobenzene
+ 129 Ethyl Benzene
+ 132 m,p-Xylene
+ 134 o-Xylene
+ 135 Styrene
w051104.d
HP MS w051104.d, Scan 506: 8.267 min. (SUB)
Reference Spectrum for 4-Methyl-2-pentanone
Ion 85.00
Ion 43.00
Ion 58.00
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 7.273 2381 18.149 18.149 100
7.791 4691 197
7.791 1856 78
2 8.267 1055 8.041 8.041 100
7.847 3358 318
7.847 4722 448

	5/12/10 WW
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	X
Merged Peaks	

RP 5/13/10

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 TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051115.d
Lab Smp Id: ICV Client Smp ID: LCS
Inj Date : 12-MAY-2010 02:49
Operator : gd Inst ID: msdw.i
Smp Info : 50ml #1936-141
Misc Info : 200ppbv>200ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:08 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 19:44 Cal File: w051112.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 73 Bromochloromethane					CAS #: 74-97-5		
5.357	5.370 (1.000)	130	121450	400.000		70.00- 130.00	100.00
5.357	5.370 (1.000)	128	95383			0.00- 30.00	78.54
5.357	5.356 (1.000)	49	180449			117.03- 177.03	148.58
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	462480	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	61218			0.00- 30.00	13.24
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	445177	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	219960			0.00- 30.00	49.41
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.125)	65	156486	383.416	383.42	70.00- 130.00	100.00
6.028	6.014 (1.125)	67	81668			0.00- 30.00	52.19
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	447147	400.250	400.25	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	47903			0.00- 30.00	10.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	313417			0.00- 30.00	70.09
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	250636	402.639	402.64	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	294610			86.64- 146.64	117.54
9.652	9.652 (1.082)	176	243844			66.47- 126.47	97.29
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	53573	206.200	206.20	70.00- 130.00	100.00
1.481	1.481 (0.276)	42	38252			0.00- 30.00	71.40
1.481	1.481 (0.276)	39	40495			0.00- 30.00	75.59
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.282)	85	167689	206.170	206.17	70.00- 130.00	100.00
1.509	1.509 (0.282)	87	54034			0.00- 30.00	32.22
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.303)	135	133218	203.715	203.72	70.00- 130.00	100.00
1.621	1.621 (0.303)	137	42406			0.00- 30.00	31.83
10 Chloromethane					CAS #: 74-87-3		
1.705	1.705 (0.318)	50	73109	198.200	198.20	70.00- 130.00	100.00
1.705	1.705 (0.318)	52	24096			0.00- 30.00	32.96
11 Butane					CAS #: 106-97-8		
1.775	1.774 (0.331)	58	18746	197.775	197.77	70.00- 130.00	100.00
1.775	1.774 (0.331)	43	123811			0.00- 30.00	660.47
12 Vinyl Chloride					CAS #: 75-01-4		
1.817	1.816 (0.339)	62	77613	211.396	211.40	70.00- 130.00	100.00
1.817	1.816 (0.339)	64	24556			0.00- 30.00	31.64
13 1,3-Butadiene					CAS #: 106-99-0		
1.831	1.830 (0.342)	54	67108	214.368	214.37	70.00- 130.00	100.00
1.831	1.830 (0.342)	39	72082			0.00- 30.00	107.41
15 Bromomethane					CAS #: 74-83-9		
2.180	2.194 (0.407)	94	57223	217.440	217.44	70.00- 130.00	100.00
2.180	2.194 (0.407)	96	52227			0.00- 30.00	91.27
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.428)	64	38521	201.493	201.49	70.00- 130.00	100.00
2.292	2.292 (0.428)	49	12354			0.00- 30.00	32.07
2.292	2.292 (0.428)	66	11640			0.00- 30.00	30.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
17 Isopentane					CAS #: 78-78-4		
2.306	2.320 (0.431)	43	99218	212.027	212.03	70.00- 130.00	100.00
2.306	2.320 (0.431)	57	67382			0.00- 30.00	67.91
2.306	2.320 (0.431)	72	7232			0.00- 30.00	7.29
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.472)	101	192257	204.570	204.57	70.00- 130.00	100.00
2.530	2.530 (0.472)	103	124621			0.00- 30.00	64.82
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.525)	45	29725	194.551	194.55	70.00- 130.00	100.00
2.810	2.810 (0.525)	43	6118			0.00- 30.00	20.58
2.810	2.810 (0.525)	46	12159			0.00- 30.00	40.90
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.577)	151	109506	185.504	185.50	70.00- 130.00	100.00
3.090	3.090 (0.577)	153	70733			0.00- 30.00	64.59
3.076	3.090 (0.574)	101	136167			94.24- 154.24	124.35
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.104 (0.579)	61	116627	187.350	187.35	70.00- 130.00	100.00
3.104	3.104 (0.579)	96	58991			0.00- 30.00	50.58
3.104	3.104 (0.579)	98	38966			3.44- 63.44	33.41
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.603)	58	36465	205.969	205.97	70.00- 130.00	100.00
3.230	3.230 (0.603)	43	127102			0.00- 30.00	348.56
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.621)	76	169882	210.809	210.81	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.370 (0.629)	45	144641	207.004	207.00	70.00- 130.00	100.00
3.370	3.370 (0.629)	43	31110			0.00- 30.00	21.51
3.384	3.370 (0.632)	59	5017			0.00- 30.00	3.47
38 3-Chloropropene					CAS #: 107-05-1		
3.524	3.537 (0.658)	76	29876	207.005	207.00	70.00- 130.00	100.00
3.524	3.537 (0.658)	41	101038			0.00- 30.00	338.19
45 Methylene Chloride					CAS #: 75-09-2		
3.691	3.705 (0.689)	49	91859	189.240	189.24	70.00- 130.00	100.00
3.705	3.705 (0.692)	84	52795			0.00- 30.00	57.47
3.705	3.705 (0.692)	51	28382			0.00- 30.00	30.90
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.710)	59	127191	246.722	246.72	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
	46 tert-Butyl-Alcohol (continued)						
3.803	3.803 (0.710)	41	26935			0.00- 30.00	21.18
3.803	3.803 (0.710)	57	14177			0.00- 30.00	11.15
	48 MTBE				CAS #: 1634-04-4		
3.915	3.915 (0.731)	73	180716	211.936	211.94	70.00- 130.00	100.00
3.915	3.915 (0.731)	57	52618			0.00- 30.00	29.12
3.915	3.915 (0.731)	41	48686			0.00- 30.00	26.94
	49 trans-1,2-Dichloroethene				CAS #: 156-60-5		
3.943	3.943 (0.736)	96	71447	204.159	204.16	70.00- 130.00	100.00
3.943	3.943 (0.736)	61	112027			0.00- 30.00	156.80
3.943	3.943 (0.736)	98	45248			0.00- 30.00	63.33
	52 Hexane				CAS #: 110-54-3		
4.153	4.167 (0.775)	57	142446	208.237	208.24	70.00- 130.00	100.00
4.153	4.167 (0.775)	43	91617			0.00- 30.00	64.32
4.153	4.167 (0.775)	86	22688			0.00- 30.00	15.93
	53 Isopropyl ether				CAS #: 108-20-3		
4.433	4.433 (0.828)	45	321581	224.075	224.07	70.00- 130.00	100.00
4.433	4.433 (0.828)	87	68388			0.00- 30.00	21.27
4.433	4.433 (0.828)	59	34264			0.00- 30.00	10.65
	55 1,1-Dichloroethane				CAS #: 75-34-3		
4.447	4.447 (0.830)	63	137562	200.342	200.34	70.00- 130.00	100.00
4.447	4.447 (0.830)	65	40933			0.00- 30.00	29.76
	58 Vinyl Acetate				CAS #: 108-05-4		
4.489	4.489 (0.838)	86	18544	208.880	208.88	70.00- 130.00	100.00
4.489	4.489 (0.838)	43	255038			0.00- 30.00	1375.31
4.489	4.489 (0.838)	42	22827			0.00- 30.00	123.10
	63 Ethyl-tert-butyl Ether				CAS #: 637-92-3		
4.825	4.839 (0.901)	59	275119	230.600	230.60	70.00- 130.00	100.00
4.839	4.839 (0.903)	87	100595			0.00- 30.00	36.56
4.825	4.825 (0.901)	41	51824			0.00- 30.00	18.84
	68 cis-1,2-Dichloroethene				CAS #: 156-59-2		
5.091	5.091 (0.950)	61	104308	200.505	200.50	70.00- 130.00	100.00
5.091	5.091 (0.950)	96	69884			0.00- 30.00	67.00
5.091	5.091 (0.950)	98	45898			12.87- 72.87	44.00
	70 2-Butanone				CAS #: 78-93-3		
5.119	5.119 (0.956)	72	34677	212.705	212.70	70.00- 130.00	100.00
5.119	5.119 (0.956)	43	180590			0.00- 30.00	520.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
5.119	5.119 (0.956)	57	13559			0.00- 30.00	39.10
72 Tetrahydrofuran					CAS #: 109-99-9		
5.357	5.342 (1.000)	42	104206	214.379	214.38	70.00- 130.00	100.00
5.357	5.356 (1.000)	71	30582			0.00- 30.00	29.35
5.357	5.356 (1.000)	72	32748			0.00- 30.00	31.43
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.016)	83	139977	203.310	203.31	70.00- 130.00	100.00
5.440	5.440 (1.016)	85	92448			0.00- 30.00	66.05
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.044)	97	155605	200.953	200.95	70.00- 130.00	100.00
5.594	5.594 (1.044)	99	98777			0.00- 30.00	63.48
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.042)	84	102724	204.924	204.92	70.00- 130.00	100.00
5.580	5.580 (1.042)	56	136993			0.00- 30.00	133.36
5.566	5.580 (1.039)	41	80936			51.27- 111.27	78.79
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.071)	119	165314	205.930	205.93	70.00- 130.00	100.00
5.734	5.734 (1.071)	117	170151			0.00- 30.00	102.93
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	6.000 (1.118)	57	429637	203.986	203.98	70.00- 130.00	100.00
5.986	5.986 (1.118)	56	141359			0.00- 30.00	32.90
5.986	5.986 (1.118)	41	113766			0.00- 30.00	26.48
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	202278	198.288	198.29	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	48168			0.00- 30.00	23.81
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.138)	73	224176	230.421	230.42	70.00- 130.00	100.00
6.098	6.098 (1.138)	87	56736			0.00- 30.00	25.31
6.098	6.098 (1.138)	55	64171			0.00- 30.00	28.63
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	110976	201.446	201.44	70.00- 130.00	100.00
6.112	6.112 (0.942)	64	35078			0.00- 30.00	31.61
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	78458	205.726	205.72	70.00- 130.00	100.00
6.210	6.224 (0.957)	43	166912			0.00- 30.00	212.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
91 Heptane (continued)							
6.224	6.224 (0.959)	100	30878			0.00- 30.00	39.36
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	96977	174.773	174.77	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	115422			0.00- 30.00	119.02
6.742	6.742 (1.039)	97	63346			34.33- 94.33	65.32
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.868	6.867 (1.058)	83	133889	203.169	203.17	70.00- 130.00	100.00
6.868	6.867 (1.058)	98	70460			0.00- 30.00	52.63
6.854	6.867 (1.056)	55	127009			0.00- 30.00	94.86
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.008	7.007 (1.080)	63	87606	208.042	208.04	70.00- 130.00	100.00
7.008	7.007 (1.080)	62	61801			0.00- 30.00	70.54
7.008	7.007 (1.080)	41	58811			39.54- 99.54	67.13
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	50315	205.888	205.89	70.00- 130.00	100.00
7.119	7.119 (1.097)	58	40912			0.00- 30.00	81.31
7.119	7.119 (1.097)	57	13921			0.00- 30.00	27.67
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	152000	203.402	203.40	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	98198			0.00- 30.00	64.60
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	117061	212.197	212.20	70.00- 130.00	100.00
7.665	7.665 (1.181)	77	36792			0.00- 30.00	31.43
7.665	7.665 (1.181)	39	74775			34.56- 94.56	63.88
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	30660	212.964	212.96	70.00- 130.00	100.00
7.791	7.791 (1.200)	43	217074			0.00- 30.00	708.00
7.791	7.791 (1.200)	58	80429			0.00- 30.00	262.33
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	259576	192.247	192.25	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	155719			0.00- 30.00	59.99
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	123916	213.820	213.82	70.00- 130.00	100.00
8.127	8.127 (0.911)	77	39308			0.00- 30.00	31.72
8.127	8.127 (0.911)	39	75195			30.64- 90.64	60.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	89368	203.519	203.52	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	55155			0.00- 30.00	61.72
8.267	8.267 (0.926)	83	75106			54.08- 114.08	84.04
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	131528	201.727	201.73	70.00- 130.00	100.00
8.295	8.309 (0.929)	129	102403			0.00- 30.00	77.86
8.295	8.309 (0.929)	131	100194			47.65- 107.65	76.18
122 2-Hexanone					CAS #: 591-78-6		
8.421	8.435 (0.944)	58	111249	209.566	209.56	70.00- 130.00	100.00
8.421	8.435 (0.944)	43	213900			0.00- 30.00	192.27
8.435	8.435 (0.945)	100	23353			0.00- 30.00	20.99
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.547 (0.956)	129	172916	207.300	207.30	70.00- 130.00	100.00
8.533	8.547 (0.956)	127	133862			0.00- 30.00	77.41
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.631	8.630 (0.967)	107	151620	215.222	215.22	70.00- 130.00	100.00
8.631	8.630 (0.967)	109	143900			0.00- 30.00	94.91
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	239181	207.068	207.07	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	76067			0.00- 30.00	31.80
8.938	8.938 (1.002)	77	121282			19.73- 79.73	50.71
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	117887	206.094	206.09	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	362131			0.00- 30.00	307.18
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	149709	205.828	205.83	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	285645			0.00- 30.00	190.80
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	139614	200.597	200.60	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	281385			0.00- 30.00	201.54
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	228805	210.654	210.65	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	101669			0.00- 30.00	44.43
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	147368	211.714	211.71	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	75041			0.00- 30.00	50.92
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	423197	208.629	208.63	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	116480			0.00- 30.00	27.52
9.526	9.526 (1.067)	51	49184			0.00- 30.00	11.62
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	196605	214.228	214.23	70.00- 130.00	100.00
9.736	9.736 (1.091)	85	126861			0.00- 30.00	64.53
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	479800	211.040	211.04	70.00- 130.00	100.00
9.764	9.764 (1.094)	120	120744			0.00- 30.00	25.17
9.764	9.764 (1.094)	105	18840			0.00- 30.00	3.93
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	453460	221.181	221.18	70.00- 130.00	100.00
9.820	9.820 (1.100)	120	141604			0.00- 30.00	31.23
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.862 (1.103)	105	388879	212.400	212.40	70.00- 130.00	100.00
9.848	9.862 (1.103)	120	196354			0.00- 30.00	50.49
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	349921	221.753	221.75	70.00- 130.00	100.00
10.058	10.058 (1.127)	120	168761			0.00- 30.00	48.23
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	235151	217.967	217.97	70.00- 130.00	100.00
10.240	10.240 (1.147)	148	149242			0.00- 30.00	63.47
10.226	10.240 (1.146)	111	92720			0.00- 30.00	39.43
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	254918	220.853	220.85	70.00- 130.00	100.00
10.282	10.282 (1.152)	148	160170			0.00- 30.00	62.83
10.282	10.282 (1.152)	111	96369			0.00- 30.00	37.80
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.352	10.351 (1.160)	91	293303	249.989	249.99	70.00- 130.00	100.00
10.352	10.351 (1.160)	126	67979			0.00- 30.00	23.18
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.478	10.477 (1.174)	146	220699	226.340	226.34	70.00- 130.00	100.00
10.478	10.477 (1.174)	148	140137			0.00- 30.00	63.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
165 1,2-Dichlorobenzene (continued)							
10.478	10.477 (1.174)	111	88647			11.15- 71.15	40.17
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	78719	189.934	189.93	70.00- 130.00	100.00
11.247	11.247 (1.260)	182	71401			0.00- 30.00	90.70
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	54224	203.089	203.09	70.00- 130.00	100.00
11.289	11.289 (1.265)	223	34284			0.00- 30.00	63.23
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	150435	147.015	147.02	70.00- 130.00	100.00
11.373	11.373 (1.274)	127	19371			0.00- 30.00	12.88

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051115.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 200ppbv>200ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	121450	-0.87
93 1,4-Difluorobenze	464051	278431	649671	462480	-0.34
126 Chlorobenzene-d5	453275	271965	634585	445177	-1.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.36	-0.26
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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: 11may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV Client Smp ID: LCS
Level: LOW Operator: gd
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 200ppbv>200ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
7 Dichlorodifluorome	200.00	206.17	103.08	70-130
9 Freon 114	200.00	203.72	101.86	70-130
10 Chloromethane	200.00	198.20	99.10	70-130
12 Vinyl Chloride	200.00	211.40	105.70	70-130
13 1,3-Butadiene	200.00	214.37	107.18	60-140
15 Bromomethane	200.00	217.44	108.72	70-130
16 Chloroethane	200.00	201.49	100.75	70-130
19 Trichlorofluoromet	200.00	204.57	102.29	70-130
25 Ethanol	200.00	194.55	97.28	60-140
32 Freon 113	200.00	185.50	92.75	70-130
33 1,1-Dichloroethene	200.00	187.35	93.68	70-130
36 Carbon Disulfide	200.00	210.81	105.40	60-140
34 Acetone	200.00	205.97	102.98	60-140
37 2-Propanol	200.00	207.00	103.50	60-140
38 3-Chloropropene	200.00	207.00	103.50	60-140
45 Methylene Chloride	200.00	189.24	94.62	70-130
48 MTBE	200.00	211.94	105.97	60-140
49 trans-1,2-Dichloro	200.00	204.16	102.08	60-140
52 Hexane	200.00	208.24	104.12	60-140
55 1,1-Dichloroethane	200.00	200.34	100.17	70-130
68 cis-1,2-Dichloroet	200.00	200.50	100.25	70-130
70 2-Butanone	200.00	212.70	106.35	60-140
72 Tetrahydrofuran	200.00	214.38	107.19	60-140
74 Chloroform	200.00	203.31	101.66	70-130
76 Cyclohexane	200.00	204.92	102.46	60-140
77 1,1,1-Trichloroeth	200.00	200.95	100.48	70-130
58 Vinyl Acetate	200.00	208.88	104.44	70-130
79 Carbon Tetrachlori	200.00	205.93	102.96	70-130
84 2,2,4-Trimethylpen	200.00	203.98	101.99	60-140
86 Benzene	200.00	198.29	99.14	70-130
90 1,2-Dichloroethane	200.00	201.44	100.72	70-130
91 Heptane	200.00	205.72	102.86	60-140
95 Trichloroethene	200.00	174.77	87.39	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98	1,2-Dichloropropan	200.00	208.04	104.02	70-130
102	1,4-Dioxane	200.00	205.89	102.94	60-140
104	Bromodichlorometha	200.00	203.40	101.70	60-140
106	cis-1,3-Dichloropr	200.00	212.20	106.10	70-130
107	4-Methyl-2-pentano	200.00	212.96	106.48	60-140
114	Toluene	200.00	192.25	96.12	70-130
117	trans-1,3-Dichloro	200.00	213.82	106.91	70-130
118	1,1,2-Trichloroeth	200.00	203.52	101.76	70-130
119	Tetrachloroethene	200.00	201.73	100.86	70-130
122	2-Hexanone	200.00	209.56	104.78	60-140
124	Dibromochlorometha	200.00	207.30	103.65	60-140
125	1,2-Dibromoethane	200.00	215.22	107.61	70-130
127	Chlorobenzene	200.00	207.07	103.53	70-130
129	Ethyl Benzene	200.00	206.09	103.05	70-130
132	m,p-Xylene	200.00	205.83	102.91	70-130
134	o-Xylene	200.00	200.60	100.30	70-130
135	Styrene	200.00	210.65	105.33	70-130
139	Bromoform	200.00	211.71	105.86	60-140
140	Cumene	200.00	208.63	104.31	60-140
143	1,1,2,2-Tetrachlor	200.00	214.23	107.11	70-130
145	Propylbenzene	200.00	211.04	105.52	60-140
147	4-Ethyltoluene	200.00	221.18	110.59	70-130
149	1,3,5-Trimethylben	200.00	212.40	106.20	70-130
153	1,2,4-Trimethylben	200.00	221.75	110.88	70-130
157	1,3-Dichlorobenzen	200.00	217.97	108.98	70-130
158	1,4-Dichlorobenzen	200.00	220.85	110.43	70-130
162	alpha-Chlorotoluen	200.00	249.99	124.99	70-130
165	1,2-Dichlorobenzen	200.00	226.34	113.17	70-130
169	1,2,4-Trichloroben	200.00	189.93	94.97	70-130
170	Hexachlorobutadien	200.00	203.09	101.54	70-130
5	Propylene	200.00	206.20	103.10	60-140
171	Naphthalene	200.00	147.02	73.51	60-140
46	tert-Butyl-Alcohol	200.00	246.72	123.36	60-140
53	Isopropyl ether	200.00	224.07	112.04	60-140
63	Ethyl-tert-butyl E	200.00	230.60	115.30	60-140
89	tert-amyl-Methyl E	200.00	230.42	115.21	60-140
11	Butane	200.00	197.77	98.89	70-130
17	Isopentane	200.00	212.03	106.01	70-130
97	Methyl Cyclohexane	200.00	203.17	101.58	70-130

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 88	1,2-Dichloroethane	400.00	383.42	95.85	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 108 Toluene-d8	400.00	400.25	100.06	70-130
$ 142 Bromofluorobenzene	400.00	402.64	100.66	70-130

Data File: /chem/msdw.i/11may10.b/w051115.d

Date : 12-MAY-2010 02:49

Client ID: LCS

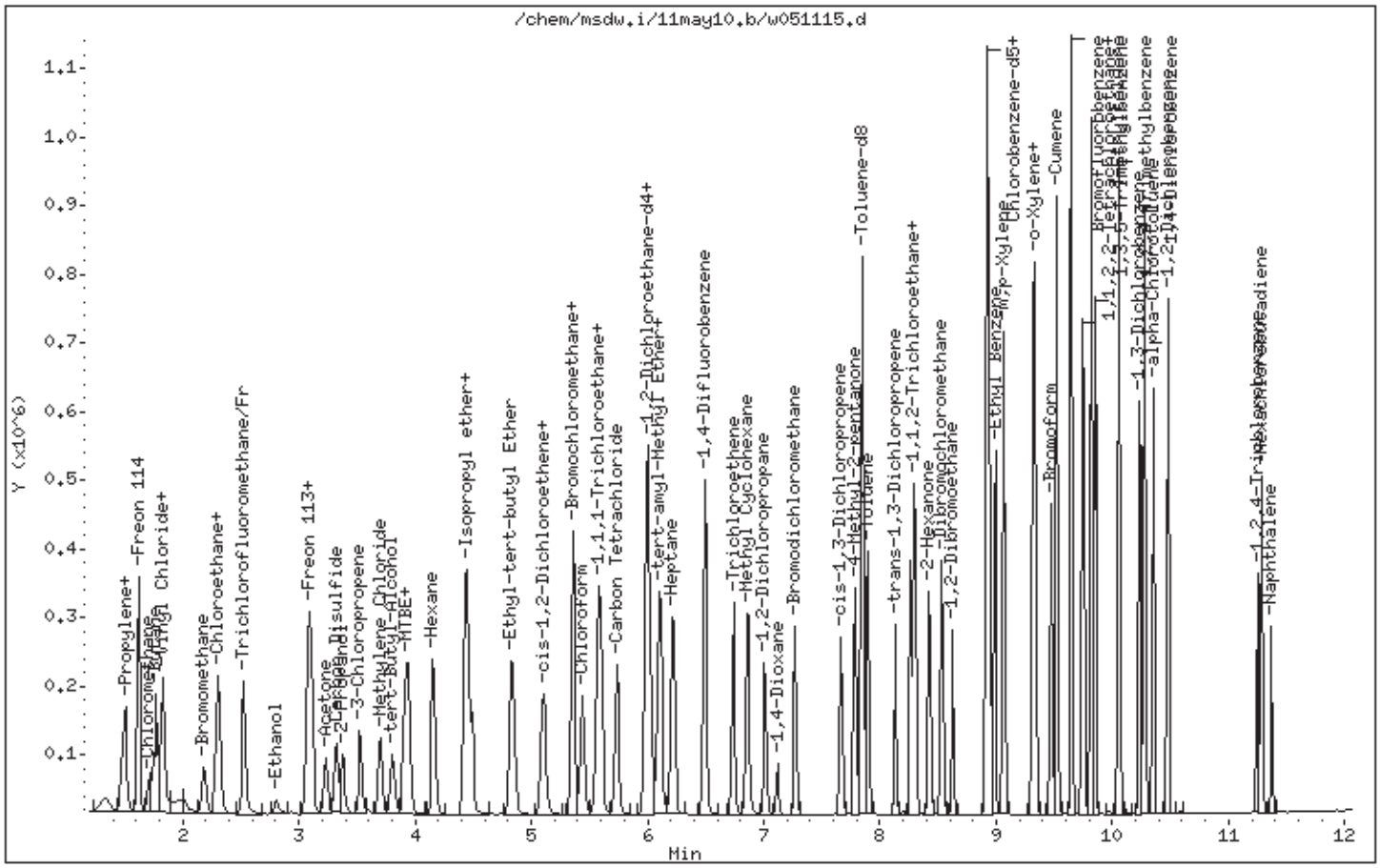
Instrument: msdw.i

Sample Info: 50ml #1936-141

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051103.d
Lab Smp Id: 1963-138 Client Smp ID: Level-1
Inj Date : 11-MAY-2010 12:22
Operator : ly Inst ID: msdw.i
Smp Info : 0.75ml #35997
Misc Info : 3.0ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 12:22 Cal File: w051103.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzene.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	118413	400.000		70.00- 130.00	100.00
5.356	5.356 (1.000)	128	92761			0.00- 30.00	78.34
5.356	5.356 (1.000)	49	177088			117.03- 177.03	149.55
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	464111	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	61664			0.00- 30.00	13.29
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	444359	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	221413			0.00- 30.00	49.83
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	157176	400.000	394.98	70.00- 130.00	100.00
6.028	6.028 (1.122)	67	76462			0.00- 30.00	48.65
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	446049	400.000	397.86	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	48063			0.00- 30.00	10.78

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	309803			0.00- 30.00	69.45
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	250125	400.000	402.56	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	294946			86.64- 146.64	117.92
9.652	9.652 (1.082)	176	241594			66.47- 126.47	96.59
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	3216	3.00000	3.141	70.00- 130.00	100.00(Ta)
0.000	1.000 (0.000)	77	0			0.00- 30.00	0.00

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051103.d
Lab Smp Id: 1963-138
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 3.0ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	118413	-3.35
93 1,4-Difluorobenze	464051	278431	649671	464111	0.01
126 Chlorobenzene-d5	453275	271965	634585	444359	-1.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051103.d

Date : 11-MAY-2010 12:22

Client ID: Level-1

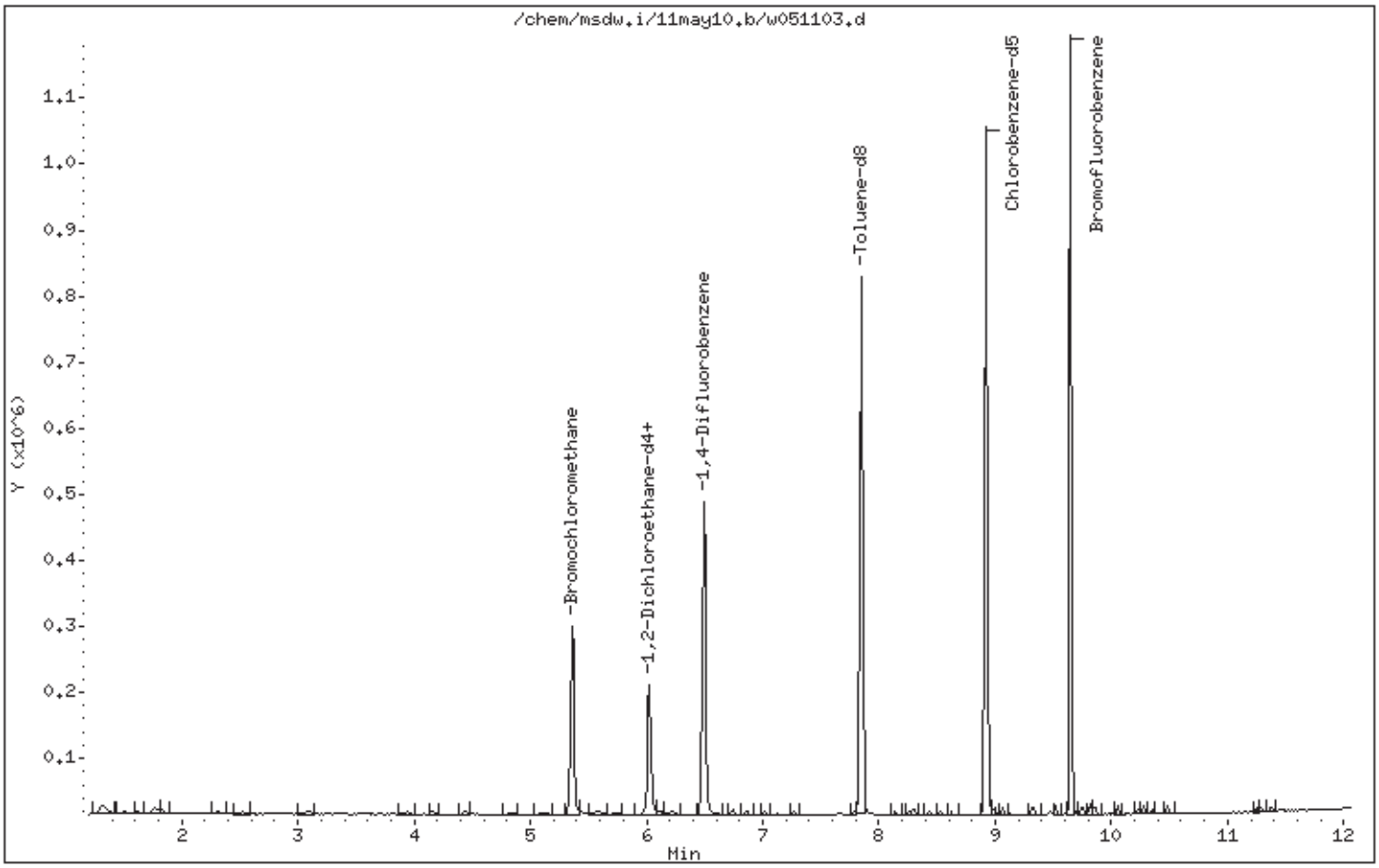
Instrument: msdw.i

Sample Info: 0.75ml #35997

Operator: ly

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051104.d
Lab Smp Id: 1963-138 Client Smp ID: Level-2
Inj Date : 11-MAY-2010 13:18
Operator : ly Inst ID: msdw.i
Smp Info : 1.25ml #35997
Misc Info : 5.0ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 13:18 Cal File: w051104.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09low.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.356	5.356 (1.000)	130	115534	400.000		70.00- 130.00	100.00
5.356	5.356 (1.000)	128	90012			0.00- 30.00	77.91
5.356	5.356 (1.000)	49	173802			117.03- 177.03	150.43
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	453713	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	60253			0.00- 30.00	13.28
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	435849	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	218740			0.00- 30.00	50.19
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.125)	65	150667	400.000	388.06	70.00- 130.00	100.00
6.028	6.028 (1.125)	67	74216			0.00- 30.00	49.26
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	432462	400.000	394.58	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	47071			0.00- 30.00	10.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	301261			0.00- 30.00	69.66
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	243073	400.000	398.85	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	289255			86.64- 146.64	119.00
9.652	9.652 (1.082)	176	233790			66.47- 126.47	96.18
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.282)	85	4210	5.00000	5.441	70.00- 130.00	100.00
1.509	1.509 (0.282)	87	1437			0.00- 30.00	34.13
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.303)	135	3409	5.00000	5.480	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	137	0			0.00- 30.00	0.00
10 Chloromethane					CAS #: 74-87-3		
1.718	1.718 (0.321)	50	2470	5.00000	7.039	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	52	0			0.00- 30.00	0.00
12 Vinyl Chloride					CAS #: 75-01-4		
1.816	1.816 (0.339)	62	1848	5.00000	5.291	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	64	0			0.00- 30.00	0.00
13 1,3-Butadiene					CAS #: 106-99-0		
1.830	1.830 (0.342)	54	1851	5.00000	6.216	70.00- 130.00	100.00
1.830	1.830 (0.342)	39	1610			0.00- 30.00	86.98
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.410)	94	1109	5.00000	4.430	70.00- 130.00	100.00
2.194	2.194 (0.410)	96	1248			0.00- 30.00	112.53
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.428)	64	986	5.00000	5.422	70.00- 130.00	100.00(M)
2.292	2.292 (0.428)	49	0			0.00- 30.00	0.00
2.292	2.292 (0.428)	66	0			0.00- 30.00	0.00
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.472)	101	4761	5.00000	5.325	70.00- 130.00	100.00
2.530	2.530 (0.472)	103	3065			0.00- 30.00	64.38
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.577)	151	2917	5.00000	5.194	70.00- 130.00	100.00
3.076	3.076 (0.574)	153	1736			0.00- 30.00	59.51
3.076	3.076 (0.574)	101	3389			94.24- 154.24	116.18

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.104 (0.579)	61	3144	5.00000	5.309	70.00- 130.00	100.00
3.104	3.104 (0.579)	96	1662			0.00- 30.00	52.86
3.104	3.104 (0.579)	98	1066			3.44- 63.44	33.91
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.621)	76	4144	5.00000	5.406	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.384	3.384 (0.632)	45	3508	5.00000	5.278	70.00- 130.00	100.00
3.384	3.384 (0.632)	43	1222			0.00- 30.00	34.83
3.817	3.817 (0.713)	59	3392			0.00- 30.00	96.69
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.692)	49	2543	5.00000	5.507	70.00- 130.00	100.00
3.705	3.705 (0.692)	84	1448			0.00- 30.00	56.94
3.705	3.705 (0.692)	51	1062			0.00- 30.00	41.76
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.731)	73	4095	5.00000	5.048	70.00- 130.00	100.00
3.915	3.915 (0.731)	57	1536			0.00- 30.00	37.51
3.915	3.915 (0.731)	41	2154			0.00- 30.00	52.60
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.736)	96	1774	5.00000	5.329	70.00- 130.00	100.00
3.943	3.943 (0.736)	61	2927			0.00- 30.00	164.99
3.943	3.943 (0.736)	98	1011			0.00- 30.00	56.99
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.778)	57	3670	5.00000	5.640	70.00- 130.00	100.00(T)
4.153	4.153 (0.775)	43	2468			0.00- 30.00	67.25
0.000	1.000 (0.000)	86	0			0.00- 30.00	0.00
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.830)	63	3414	5.00000	5.227	70.00- 130.00	100.00
4.447	4.447 (0.830)	65	1019			0.00- 30.00	29.85
70 2-Butanone					CAS #: 78-93-3		
5.132	5.132 (0.958)	72	729	5.00000	4.700	70.00- 130.00	100.00(M)
5.119	5.119 (0.956)	43	0			0.00- 30.00	0.00
5.119	5.119 (0.956)	57	0			0.00- 30.00	0.00
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.090	5.090 (0.950)	61	2650	5.00000	5.355	70.00- 130.00	100.00
5.090	5.090 (0.950)	96	1870			0.00- 30.00	70.57
5.090	5.090 (0.950)	98	1061			12.87- 72.87	40.04

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
72 Tetrahydrofuran					CAS #: 109-99-9		
5.370	5.370 (1.003)	42	2473	5.00000	5.348	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	71	0			0.00- 30.00	0.00
0.000	1.000 (0.000)	72	0			0.00- 30.00	0.00
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.016)	83	3297	5.00000	5.034	70.00- 130.00	100.00
5.440	5.440 (1.016)	85	2171			0.00- 30.00	65.85
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.044)	97	3742	5.00000	5.080	70.00- 130.00	100.00
5.594	5.594 (1.044)	99	2261			0.00- 30.00	60.42
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.042)	84	2628	5.00000	5.511	70.00- 130.00	100.00
5.566	5.566 (1.039)	56	4692			0.00- 30.00	178.54
5.580	5.580 (1.042)	41	2386			51.27- 111.27	90.79
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.071)	119	3645	5.00000	4.773	70.00- 130.00	100.00
5.734	5.734 (1.071)	117	3654			0.00- 30.00	100.25
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.118)	57	10929	5.00000	5.455	70.00- 130.00	100.00
5.986	5.986 (1.118)	56	4375			0.00- 30.00	40.03
5.986	5.986 (1.118)	41	3378			0.00- 30.00	30.91
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	5055	5.00000	5.051	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	1369			0.00- 30.00	27.08
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	2817	5.00000	5.212	70.00- 130.00	100.00
6.042	6.042 (0.931)	64	2083			0.00- 30.00	73.94
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	1807	5.00000	4.830	70.00- 130.00	100.00(T)
6.224	6.224 (0.959)	43	4228			0.00- 30.00	233.98
0.000	1.000 (0.000)	100	0			0.00- 30.00	0.00
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	4126	5.00000	7.580	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	4866			0.00- 30.00	117.94
6.742	6.742 (1.039)	97	2774			34.33- 94.33	67.23
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.867	6.867 (1.058)	83	3033	5.00000	4.691	70.00- 130.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
97 Methyl Cyclohexane (continued)							
6.867	6.867 (1.058)	98	1633			0.00- 30.00	53.84
6.853	6.853 (1.056)	55	3280			0.00- 30.00	108.14
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.007	7.007 (1.080)	63	2132	5.00000	5.161	70.00- 130.00	100.00
7.007	7.007 (1.080)	62	1344			0.00- 30.00	63.04
7.021	7.021 (1.082)	41	1732			39.54- 99.54	81.24
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	3467	5.00000	4.729	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	2381			0.00- 30.00	68.68
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	2417	5.00000	4.466	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	77	0			0.00- 30.00	0.00
7.665	7.665 (1.181)	39	1798			34.56- 94.56	74.39
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	596	5.00000	4.220	70.00- 130.00	100.00(M)
7.847	7.847 (1.209)	43	3358			0.00- 30.00	563.42
7.847	7.847 (1.209)	58	4722			0.00- 30.00	792.28
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	6832	5.00000	5.158	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	4004			0.00- 30.00	58.61
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	2645	5.00000	4.662	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	77	0			0.00- 30.00	0.00
8.127	8.127 (0.911)	39	1808			30.64- 90.64	68.36
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	2212	5.00000	5.145	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	1244			0.00- 30.00	56.24
8.267	8.267 (0.926)	83	1874			54.08- 114.08	84.72
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	3094	5.00000	4.847	70.00- 130.00	100.00
8.309	8.309 (0.931)	129	2632			0.00- 30.00	85.07
8.309	8.309 (0.931)	131	2576			47.65- 107.65	83.26
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.533 (0.956)	129	3518	5.00000	4.308	70.00- 130.00	100.00
8.533	8.533 (0.956)	127	2550			0.00- 30.00	72.48

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.630	8.630 (0.967)	107	3127	5.00000	4.534	70.00- 130.00	100.00
8.630	8.630 (0.967)	109	3154			0.00- 30.00	100.86
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	5518	5.00000	4.879	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	1946			0.00- 30.00	35.27
8.924	8.924 (1.000)	77	6992			19.73- 79.73	126.71
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	2616	5.00000	4.671	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	8775			0.00- 30.00	335.44
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	3368	5.00000	4.730	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	7009			0.00- 30.00	208.11
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	3227	5.00000	4.736	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	6895			0.00- 30.00	213.67
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	4928	5.00000	4.634	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	2268			0.00- 30.00	46.02
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	2676	5.00000	3.927	70.00- 130.00	100.00
9.470	9.470 (1.061)	171	1328			0.00- 30.00	49.63
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	10103	5.00000	5.087	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	2480			0.00- 30.00	24.55
9.526	9.526 (1.067)	51	1170			0.00- 30.00	11.58
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	4540	5.00000	5.053	70.00- 130.00	100.00
9.736	9.736 (1.091)	85	2966			0.00- 30.00	65.33
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	11437	5.00000	5.138	70.00- 130.00	100.00
9.764	9.764 (1.094)	120	2647			0.00- 30.00	23.14
9.820	9.820 (1.100)	105	9776			0.00- 30.00	85.48
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	9776	5.00000	4.870	70.00- 130.00	100.00
9.820	9.820 (1.100)	120	3296			0.00- 30.00	33.72

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	9074	5.00000	5.062	70.00- 130.00	100.00
9.848	9.848 (1.103)	120	4808			0.00- 30.00	52.99
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	7986	5.00000	5.169	70.00- 130.00	100.00
10.058	10.058 (1.127)	120	3812			0.00- 30.00	47.73
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.239	10.239 (1.147)	146	5346	5.00000	5.061	70.00- 130.00	100.00
10.239	10.239 (1.147)	148	3382			0.00- 30.00	63.26
10.239	10.239 (1.147)	111	2131			0.00- 30.00	39.86
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.281	10.281 (1.152)	146	5854	5.00000	5.180	70.00- 130.00	100.00
10.281	10.281 (1.152)	148	3651			0.00- 30.00	62.37
10.281	10.281 (1.152)	111	2034			0.00- 30.00	34.75
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.351	10.351 (1.160)	91	4658	5.00000	4.055	70.00- 130.00	100.00
10.351	10.351 (1.160)	126	1123			0.00- 30.00	24.11
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	4995	5.00000	5.232	70.00- 130.00	100.00
10.477	10.477 (1.174)	148	2964			0.00- 30.00	59.34
10.477	10.477 (1.174)	111	2034			11.15- 71.15	40.72
171 Naphthalene					CAS #: 91-20-3		
11.387	11.387 (1.276)	128	3957	5.00000	3.950	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	127	0			0.00- 30.00	0.00

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051104.d
Lab Smp Id: 1963-138
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 5.0ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	115534	-5.70
93 1,4-Difluorobenze	464051	278431	649671	453713	-2.23
126 Chlorobenzene-d5	453275	271965	634585	435849	-3.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.36	-0.26
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051104.d

Date : 11-MAY-2010 13:18

Client ID: Level-2

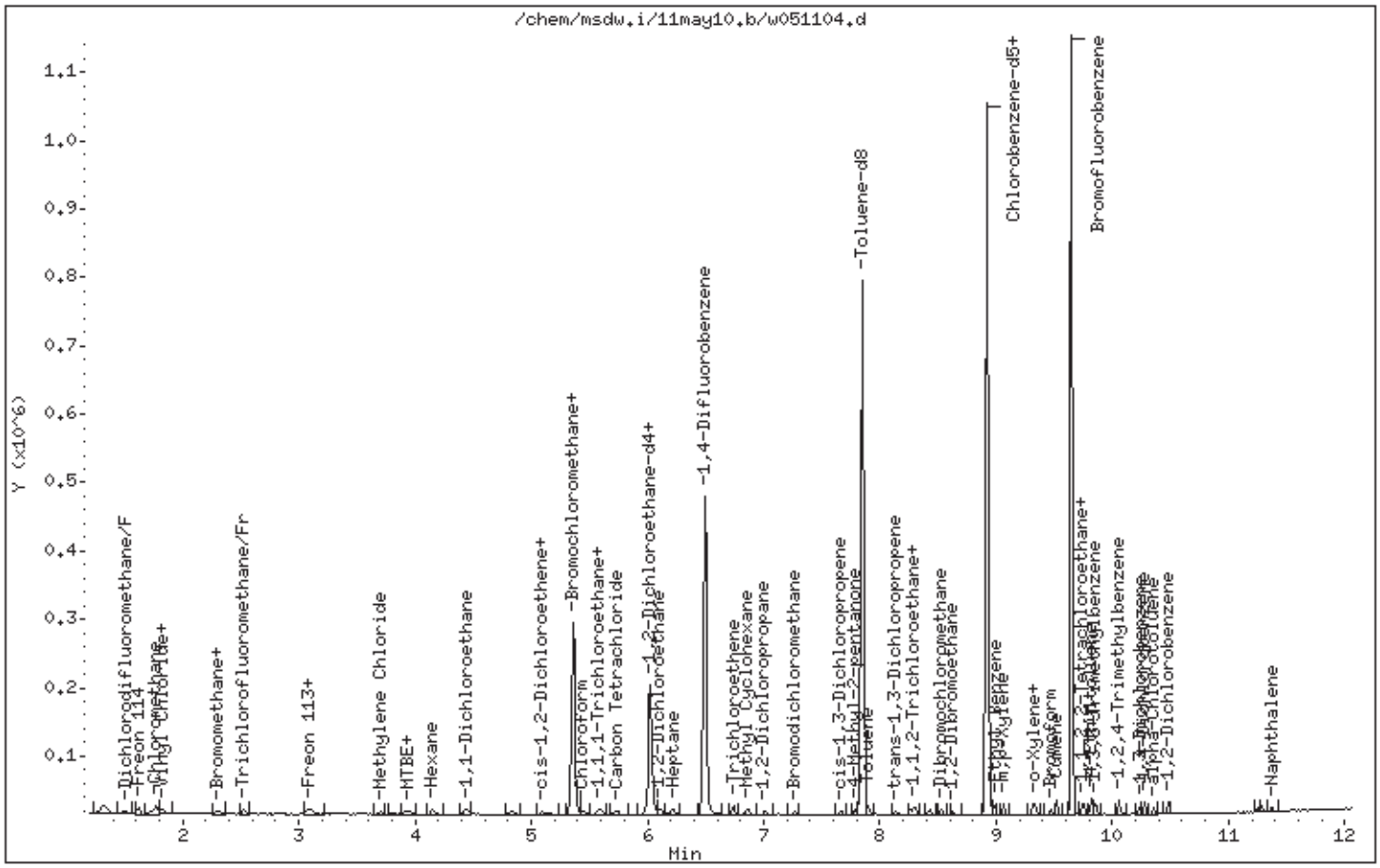
Instrument: msdw.i

Sample Info: 1.25ml #35997

Operator: ly

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/01jun10.b/w060104.d
Lab Smp Id: Calib Client Smp ID: Level 3
Inj Date : 01-JUN-2010 18:06
Operator : gd Inst ID: msdw.i
Smp Info : 5.0ml #1968-8
Misc Info : 200ppbv->20ppbv, Ethyl Acetate
Comment :
Method : /chem/msdw.i/01jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 12:46 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:06 Cal File: w060104.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: EthAceICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	142335	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	110460			0.00- 30.00	77.61
5.356	5.356 (1.000)	49	193873			105.56- 165.56	136.21
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	540614	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	70026			0.00- 30.00	12.95
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	516717	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	248978			0.00- 30.00	48.18
71 Ethyl Acetate					CAS #: 141-78-6		
5.147	5.147 (0.958)	70	1260	20.0000	19.954	70.00- 130.00	100.00(a)
5.161	5.161 (0.961)	43	17233			0.00- 30.00	1367.70
5.161	5.161 (0.961)	61	1995			0.00- 30.00	158.33

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: msdw.i
Lab File ID: w060104.d
Lab Smp Id: Calib
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/01jun10.b/w1050511b.m
Misc Info: 200ppbv->20ppbv, Ethyl Acetate

Calibration Date: 01-JUN-2010
Calibration Time: 18:28
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	137074	82244	191904	142335	3.84
93 1,4-Difluorobenze	512513	307508	717518	540614	5.48
126 Chlorobenzene-d5	495886	297532	694240	516717	4.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.50	6.17	6.83	6.49	-0.21
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/01jun10.b/w060104.d

Date : 01-JUN-2010 18:06

Client ID: Level 3

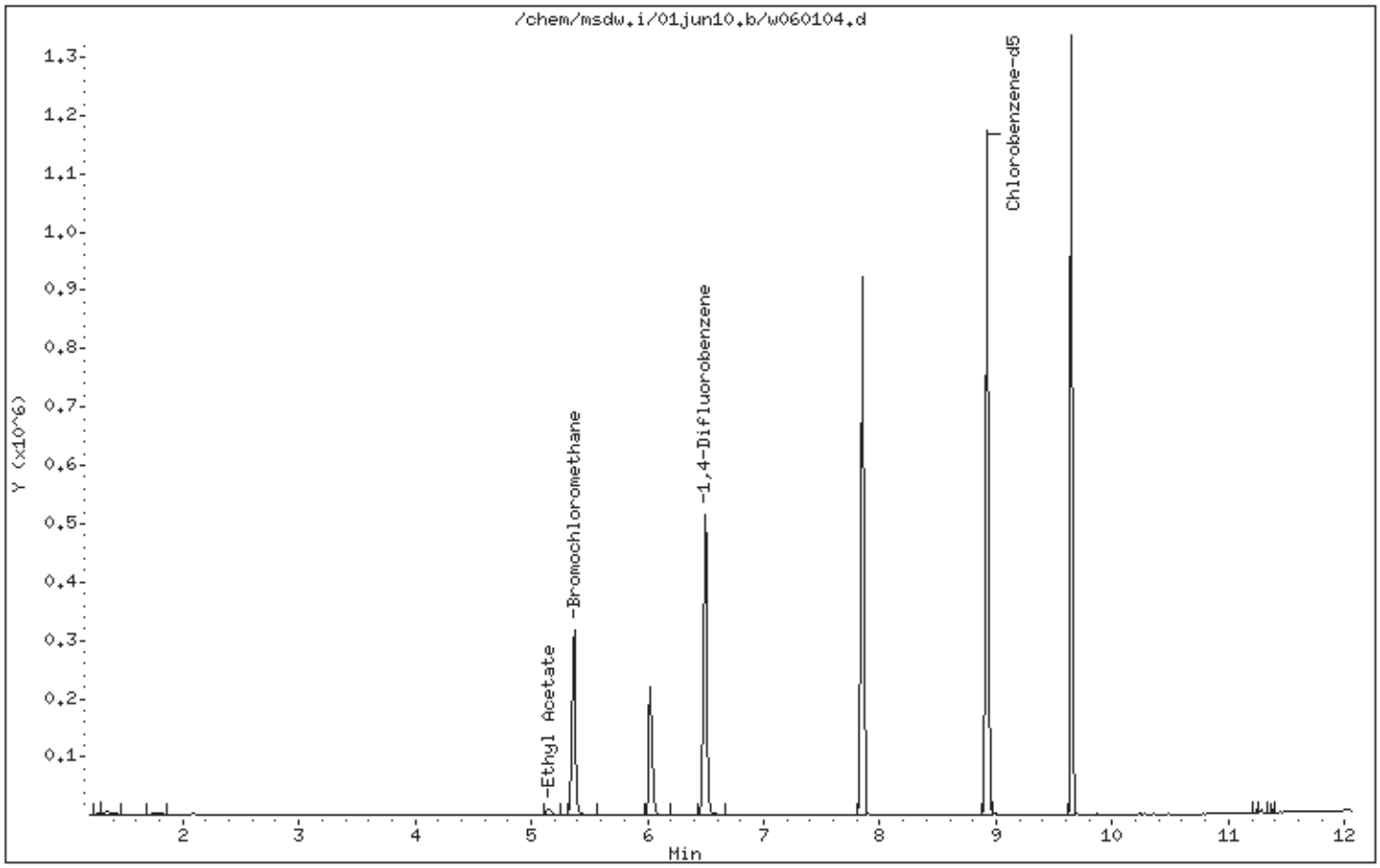
Instrument: msdw.i

Sample Info: 5.0ml #1968-8

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051105.d
Lab Smp Id: 1963-138 Client Smp ID: Level-3
Inj Date : 11-MAY-2010 14:10
Operator : ly Inst ID: msdw.i
Smp Info : 5.0ml #35997
Misc Info : 20ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 14:10 Cal File: w051105.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09MDL.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.356	5.356 (1.000)	130	113493	400.000		70.00- 130.00	100.00
5.356	5.356 (1.000)	128	89308			0.00- 30.00	78.69
5.356	5.356 (1.000)	49	172894			117.03- 177.03	152.34
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	445387	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	60190			0.00- 30.00	13.51
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	432654	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	214803			0.00- 30.00	49.65
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.125)	65	149269	400.000	391.37	70.00- 130.00	100.00(A)
6.028	6.028 (1.125)	67	73117			0.00- 30.00	48.98
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	428281	400.000	398.08	70.00- 130.00	100.00(A)
7.847	7.847 (1.209)	70	46130			0.00- 30.00	10.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	296065			0.00- 30.00	69.13
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	242916	400.000	401.53	70.00- 130.00	100.00(A)
9.652	9.652 (1.082)	95	289149			86.64- 146.64	119.03
9.652	9.652 (1.082)	176	233952			66.47- 126.47	96.31
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	5654	20.0000	23.288	70.00- 130.00	100.00
1.481	1.481 (0.276)	42	3499			0.00- 30.00	61.89
1.481	1.481 (0.276)	39	3692			0.00- 30.00	65.30
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.282)	85	15378	20.0000	20.232	70.00- 130.00	100.00
1.509	1.509 (0.282)	87	4992			0.00- 30.00	32.46
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.303)	135	11830	20.0000	19.358	70.00- 130.00	100.00
1.621	1.621 (0.303)	137	3764			0.00- 30.00	31.82
10 Chloromethane					CAS #: 74-87-3		
1.719	1.719 (0.321)	50	7454	20.0000	21.625	70.00- 130.00	100.00
1.719	1.719 (0.321)	52	2936			0.00- 30.00	39.39
11 Butane					CAS #: 106-97-8		
1.774	1.774 (0.331)	58	1908	20.0000	21.541	70.00- 130.00	100.00
1.774	1.774 (0.331)	43	13146			0.00- 30.00	688.99
12 Vinyl Chloride					CAS #: 75-01-4		
1.816	1.816 (0.339)	62	6656	20.0000	19.400	70.00- 130.00	100.00
1.816	1.816 (0.339)	64	2153			0.00- 30.00	32.35
13 1,3-Butadiene					CAS #: 106-99-0		
1.830	1.830 (0.342)	54	5051	20.0000	17.266	70.00- 130.00	100.00
1.830	1.830 (0.342)	39	5601			0.00- 30.00	110.89
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.410)	94	4894	20.0000	19.900	70.00- 130.00	100.00
2.194	2.194 (0.410)	96	4801			0.00- 30.00	98.10
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.428)	64	3618	20.0000	20.252	70.00- 130.00	100.00
2.292	2.292 (0.428)	49	1068			0.00- 30.00	29.52
2.292	2.292 (0.428)	66	1076			0.00- 30.00	29.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.433)	43	8984	20.0000	20.545	70.00- 130.00	100.00(T)
2.320	2.320 (0.433)	57	6514			0.00- 30.00	72.51
0.000	1.000 (0.000)	72	0			0.00- 30.00	0.00
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.472)	101	17500	20.0000	19.926	70.00- 130.00	100.00
2.530	2.530 (0.472)	103	11592			0.00- 30.00	66.24
25 Ethanol					CAS #: 64-17-5		
2.824	2.824 (0.527)	45	2998	20.0000	20.998	70.00- 130.00	100.00
2.810	2.810 (0.525)	43	1084			0.00- 30.00	36.16
2.810	2.810 (0.525)	46	1061			0.00- 30.00	35.39
32 Freon 113					CAS #: 76-13-1		
3.076	3.076 (0.574)	151	11095	20.0000	20.113	70.00- 130.00	100.00
3.090	3.090 (0.577)	153	7092			0.00- 30.00	63.92
3.076	3.076 (0.574)	101	13531			94.24- 154.24	121.96
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.104 (0.579)	61	11829	20.0000	20.334	70.00- 130.00	100.00
3.104	3.104 (0.579)	96	6108			0.00- 30.00	51.64
3.104	3.104 (0.579)	98	3822			3.44- 63.44	32.31
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.603)	58	3478	20.0000	21.022	70.00- 130.00	100.00
3.230	3.230 (0.603)	43	11775			0.00- 30.00	338.56
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.621)	76	15049	20.0000	19.984	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.384	3.384 (0.632)	45	13058	20.0000	19.998	70.00- 130.00	100.00(a)
3.370	3.370 (0.629)	43	3777			0.00- 30.00	28.92
3.803	3.803 (0.710)	59	12407			0.00- 30.00	95.01
38 3-Chloropropene					CAS #: 107-05-1		
3.537	3.537 (0.660)	76	2714	20.0000	20.123	70.00- 130.00	100.00
3.537	3.537 (0.660)	41	9147			0.00- 30.00	337.03
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.692)	49	9299	20.0000	20.500	70.00- 130.00	100.00
3.705	3.705 (0.692)	84	5021			0.00- 30.00	54.00
3.705	3.705 (0.692)	51	3036			0.00- 30.00	32.65
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.710)	59	12407	20.0000	25.754	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.803	3.803 (0.710)	41	3154			0.00- 30.00	25.42
3.803	3.803 (0.710)	57	1790			0.00- 30.00	14.43
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.731)	73	16084	20.0000	20.185	70.00- 130.00	100.00
3.915	3.915 (0.731)	57	5032			0.00- 30.00	31.29
3.915	3.915 (0.731)	41	4698			0.00- 30.00	29.21
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.736)	96	6870	20.0000	21.007	70.00- 130.00	100.00
3.943	3.943 (0.736)	61	10257			0.00- 30.00	149.30
3.943	3.943 (0.736)	98	4370			0.00- 30.00	63.61
52 Hexane					CAS #: 110-54-3		
4.153	4.153 (0.775)	57	13308	20.0000	20.818	70.00- 130.00	100.00
4.153	4.153 (0.775)	43	8585			0.00- 30.00	64.51
4.167	4.167 (0.778)	86	1896			0.00- 30.00	14.25
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.828)	45	28718	20.0000	21.413	70.00- 130.00	100.00
4.447	4.447 (0.830)	87	5729			0.00- 30.00	19.95
4.433	4.433 (0.828)	59	2693			0.00- 30.00	9.38
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.830)	63	12969	20.0000	20.212	70.00- 130.00	100.00
4.447	4.447 (0.830)	65	3855			0.00- 30.00	29.72
58 Vinyl Acetate					CAS #: 108-05-4		
4.503	4.503 (0.841)	86	1353	20.0000	16.309	70.00- 130.00	100.00(a)
4.489	4.489 (0.838)	43	21161			0.00- 30.00	1564.01
4.489	4.489 (0.838)	42	2315			0.00- 30.00	171.10
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.825	4.825 (0.901)	59	23044	20.0000	20.669	70.00- 130.00	100.00
4.839	4.839 (0.903)	87	8182			0.00- 30.00	35.51
4.825	4.825 (0.901)	41	5053			0.00- 30.00	21.93
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.091 (0.950)	61	9875	20.0000	20.313	70.00- 130.00	100.00
5.091	5.091 (0.950)	96	6977			0.00- 30.00	70.65
5.105	5.105 (0.953)	98	4630			12.87- 72.87	46.89
70 2-Butanone					CAS #: 78-93-3		
5.133	5.133 (0.958)	72	2836	20.0000	18.615	70.00- 130.00	100.00
5.133	5.133 (0.958)	43	15111			0.00- 30.00	532.83

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
5.133	5.133 (0.958)	57	1231			0.00- 30.00	43.41
72 Tetrahydrofuran					CAS #: 109-99-9		
5.356	5.356 (1.000)	42	8813	20.0000	19.402	70.00- 130.00	100.00
5.356	5.356 (1.000)	71	2681			0.00- 30.00	30.42
5.370	5.370 (1.003)	72	3080			0.00- 30.00	34.95
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.016)	83	12948	20.0000	20.125	70.00- 130.00	100.00
5.440	5.440 (1.016)	85	8386			0.00- 30.00	64.77
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.044)	97	14557	20.0000	20.117	70.00- 130.00	100.00
5.594	5.594 (1.044)	99	9224			0.00- 30.00	63.36
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.042)	84	9023	20.0000	19.262	70.00- 130.00	100.00
5.580	5.580 (1.042)	56	13687			0.00- 30.00	151.69
5.580	5.580 (1.042)	41	7481			51.27- 111.27	82.91
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.071)	119	14425	20.0000	19.229	70.00- 130.00	100.00
5.734	5.734 (1.071)	117	15174			0.00- 30.00	105.19
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.118)	57	39586	20.0000	20.112	70.00- 130.00	100.00
5.986	5.986 (1.118)	56	13456			0.00- 30.00	33.99
5.986	5.986 (1.118)	41	10321			0.00- 30.00	26.07
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	18918	20.0000	19.256	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	4573			0.00- 30.00	24.17
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.138)	73	18894	20.0000	20.782	70.00- 130.00	100.00
6.098	6.098 (1.138)	87	4931			0.00- 30.00	26.10
6.098	6.098 (1.138)	55	6037			0.00- 30.00	31.95
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	10169	20.0000	19.167	70.00- 130.00	100.00
6.112	6.112 (0.942)	64	3544			0.00- 30.00	34.85
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	7386	20.0000	20.110	70.00- 130.00	100.00
6.210	6.210 (0.957)	43	15280			0.00- 30.00	206.88

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
91 Heptane (continued)							
6.224	6.224 (0.959)	100	2852			0.00- 30.00	38.61
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	14493	20.0000	27.122	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	16891			0.00- 30.00	116.55
6.742	6.742 (1.039)	97	9260			34.33- 94.33	63.89
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.854	6.854 (1.056)	83	12709	20.0000	20.025	70.00- 130.00	100.00
6.868	6.868 (1.058)	98	6384			0.00- 30.00	50.23
6.868	6.868 (1.058)	55	12615			0.00- 30.00	99.26
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.007	7.007 (1.080)	63	7812	20.0000	19.263	70.00- 130.00	100.00
7.007	7.007 (1.080)	62	5851			0.00- 30.00	74.90
7.007	7.007 (1.080)	41	5498			39.54- 99.54	70.38
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	4484	20.0000	19.053	70.00- 130.00	100.00(a)
7.119	7.119 (1.097)	58	3838			0.00- 30.00	85.59
7.119	7.119 (1.097)	57	1382			0.00- 30.00	30.82
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	13306	20.0000	18.489	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	8989			0.00- 30.00	67.56
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	9608	20.0000	18.085	70.00- 130.00	100.00
7.665	7.665 (1.181)	77	3260			0.00- 30.00	33.93
7.665	7.665 (1.181)	39	6659			34.56- 94.56	69.31
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	2546	20.0000	18.363	70.00- 130.00	100.00
7.791	7.791 (1.200)	43	18431			0.00- 30.00	723.92
7.791	7.791 (1.200)	58	7242			0.00- 30.00	284.45
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	25151	20.0000	19.342	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	15040			0.00- 30.00	59.80
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	10244	20.0000	18.188	70.00- 130.00	100.00
8.127	8.127 (0.911)	77	3638			0.00- 30.00	35.51
8.127	8.127 (0.911)	39	6388			30.64- 90.64	62.36

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	8165	20.0000	19.132	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	5272			0.00- 30.00	64.57
8.267	8.267 (0.926)	83	6789			54.08- 114.08	83.15
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	12383	20.0000	19.542	70.00- 130.00	100.00
8.295	8.295 (0.929)	129	10069			0.00- 30.00	81.31
8.295	8.295 (0.929)	131	9390			47.65- 107.65	75.83
122 2-Hexanone					CAS #: 591-78-6		
8.435	8.435 (0.945)	58	9839	20.0000	19.071	70.00- 130.00	100.00(a)
8.435	8.435 (0.945)	43	19201			0.00- 30.00	195.15
8.435	8.435 (0.945)	100	1994			0.00- 30.00	20.27
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.533 (0.956)	129	14523	20.0000	17.915	70.00- 130.00	100.00
8.533	8.533 (0.956)	127	11097			0.00- 30.00	76.41
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.630	8.630 (0.967)	107	13128	20.0000	19.174	70.00- 130.00	100.00
8.630	8.630 (0.967)	109	12667			0.00- 30.00	96.49
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	23559	20.0000	20.986	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	7460			0.00- 30.00	31.67
8.938	8.938 (1.002)	77	15784			19.73- 79.73	67.00
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	10927	20.0000	19.656	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	34516			0.00- 30.00	315.88
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	13940	20.0000	19.720	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	26670			0.00- 30.00	191.32
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	12931	20.0000	19.117	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	26606			0.00- 30.00	205.75
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	19509	20.0000	18.481	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	8890			0.00- 30.00	45.57
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	11177	20.0000	16.522	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	5626			0.00- 30.00	50.34
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	40387	20.0000	20.486	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	11401			0.00- 30.00	28.23
9.526	9.526 (1.067)	51	4842			0.00- 30.00	11.99
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	17889	20.0000	20.057	70.00- 130.00	100.00
9.736	9.736 (1.091)	85	11445			0.00- 30.00	63.98
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	46342	20.0000	20.973	70.00- 130.00	100.00
9.764	9.764 (1.094)	120	11874			0.00- 30.00	25.62
9.764	9.764 (1.094)	105	1825			0.00- 30.00	3.94
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	42763	20.0000	21.462	70.00- 130.00	100.00
9.820	9.820 (1.100)	120	13410			0.00- 30.00	31.36
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	37590	20.0000	21.125	70.00- 130.00	100.00
9.848	9.848 (1.103)	120	18806			0.00- 30.00	50.03
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	32370	20.0000	21.107	70.00- 130.00	100.00
10.058	10.058 (1.127)	120	15829			0.00- 30.00	48.90
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	22632	20.0000	21.585	70.00- 130.00	100.00
10.240	10.240 (1.147)	148	14579			0.00- 30.00	64.42
10.226	10.226 (1.146)	111	8744			0.00- 30.00	38.64
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	24344	20.0000	21.701	70.00- 130.00	100.00
10.282	10.282 (1.152)	148	15777			0.00- 30.00	64.81
10.282	10.282 (1.152)	111	8942			0.00- 30.00	36.73
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.351	10.351 (1.160)	91	22614	20.0000	19.832	70.00- 130.00	100.00
10.351	10.351 (1.160)	126	5111			0.00- 30.00	22.60
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	20598	20.0000	21.736	70.00- 130.00	100.00
10.477	10.477 (1.174)	148	13347			0.00- 30.00	64.80

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
165 1,2-Dichlorobenzene (continued)							
10.477	10.477 (1.174)	111	8541			11.15- 71.15	41.47
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	11459	20.0000	28.449	70.00- 130.00	100.00
11.247	11.247 (1.260)	182	10168			0.00- 30.00	88.73
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	6056	20.0000	23.338	70.00- 130.00	100.00
11.289	11.289 (1.265)	223	4203			0.00- 30.00	69.40
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	23936	20.0000	24.069	70.00- 130.00	100.00
11.373	11.373 (1.274)	127	3334			0.00- 30.00	13.93

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051105.d
Lab Smp Id: 1963-138
Analysis Type: VOA
Quant Type: ISTD
Operator: ly
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 20ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	113493	-7.37
93 1,4-Difluorobenze	464051	278431	649671	445387	-4.02
126 Chlorobenzene-d5	453275	271965	634585	432654	-4.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.36	-0.26
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051105.d

Page 1

Date : 11-MAY-2010 14:10

Client ID: Level-3

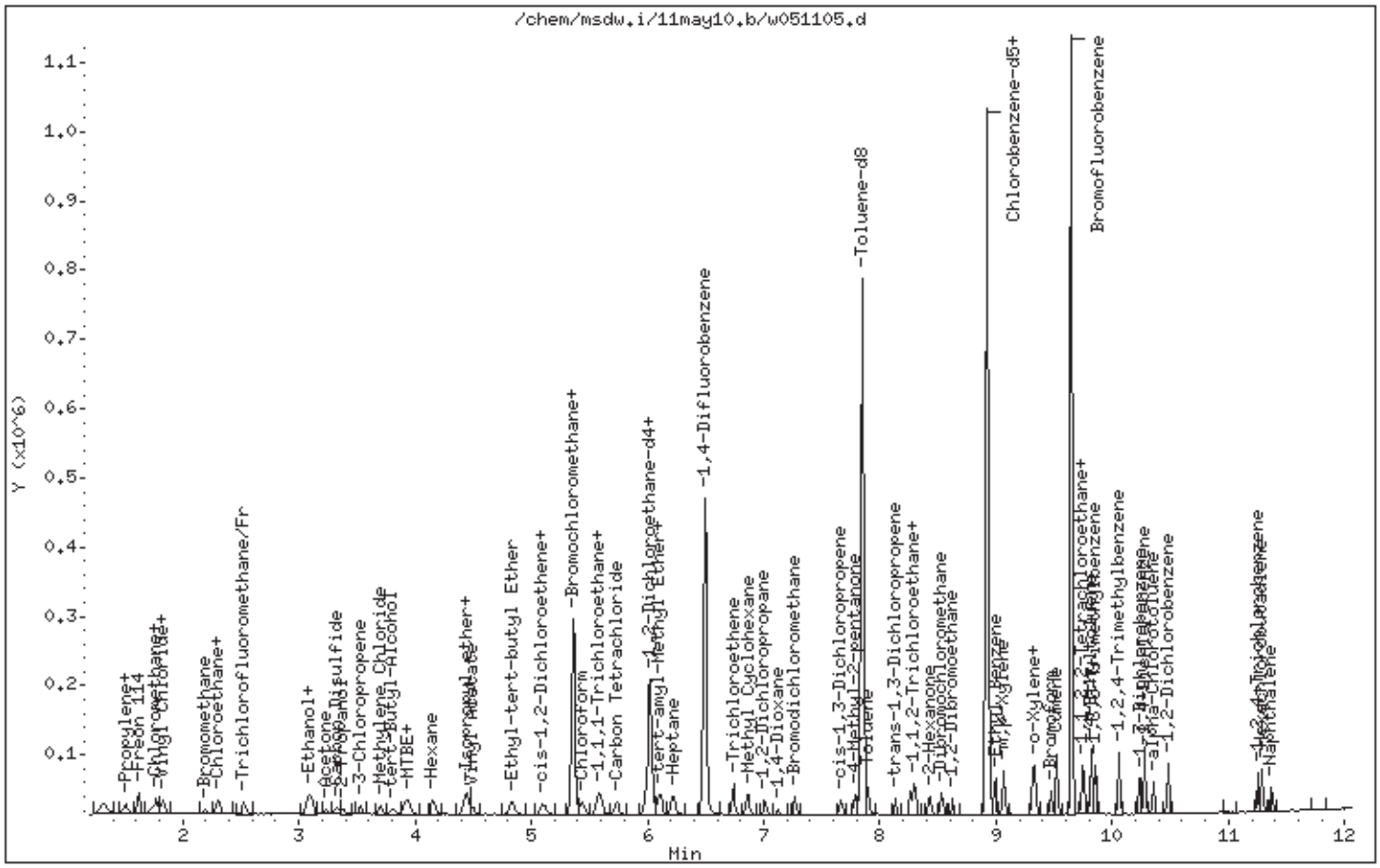
Instrument: msdw.i

Sample Info: 5.0ml #35997

Operator: ly

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051106.d
Lab Smp Id: 1963-138 Client Smp ID: Level-4
Inj Date : 11-MAY-2010 15:51
Operator : gd Inst ID: msdw.i
Smp Info : 12.5ml #35997
Misc Info : 50ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 15:51 Cal File: w051106.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	124051	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	96446			0.00- 30.00	77.75
5.370	5.370 (1.000)	49	183774			117.03- 177.03	148.14
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	473703	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	63049			0.00- 30.00	13.31
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	458704	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	228703			0.00- 30.00	49.86
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	160962	400.000	386.11	70.00- 130.00	100.00
6.028	6.028 (1.122)	67	79155			0.00- 30.00	49.18
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	458247	400.000	400.47	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	49901			0.00- 30.00	10.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	312570			0.00- 30.00	68.21
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	258933	400.000	403.70	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	306332			86.64- 146.64	118.31
9.652	9.652 (1.082)	176	252413			66.47- 126.47	97.48
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	12261	50.0000	46.203	70.00- 130.00	100.00
1.481	1.481 (0.276)	42	9117			0.00- 30.00	74.36
1.481	1.481 (0.276)	39	8978			0.00- 30.00	73.22
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.281)	85	38538	50.0000	46.388	70.00- 130.00	100.00
1.509	1.509 (0.281)	87	12418			0.00- 30.00	32.22
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.302)	135	30864	50.0000	46.207	70.00- 130.00	100.00
1.621	1.621 (0.302)	137	9576			0.00- 30.00	31.03
10 Chloromethane					CAS #: 74-87-3		
1.719	1.719 (0.320)	50	17381	50.0000	46.132	70.00- 130.00	100.00
1.719	1.719 (0.320)	52	6194			0.00- 30.00	35.64
11 Butane					CAS #: 106-97-8		
1.775	1.775 (0.330)	58	4485	50.0000	46.326	70.00- 130.00	100.00
1.775	1.775 (0.330)	43	29785			0.00- 30.00	664.10
12 Vinyl Chloride					CAS #: 75-01-4		
1.817	1.817 (0.338)	62	16411	50.0000	43.762	70.00- 130.00	100.00
1.817	1.817 (0.338)	64	4915			0.00- 30.00	29.95
13 1,3-Butadiene					CAS #: 106-99-0		
1.831	1.831 (0.341)	54	13370	50.0000	41.813	70.00- 130.00	100.00
1.831	1.831 (0.341)	39	13538			0.00- 30.00	101.26
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.409)	94	11886	50.0000	44.218	70.00- 130.00	100.00
2.194	2.194 (0.409)	96	11343			0.00- 30.00	95.43
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.427)	64	8994	50.0000	46.059	70.00- 130.00	100.00
2.292	2.292 (0.427)	49	2704			0.00- 30.00	30.06
2.292	2.292 (0.427)	66	2759			0.00- 30.00	30.68

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	23523	50.0000	49.214	70.00- 130.00	100.00
2.320	2.320 (0.432)	57	15818			0.00- 30.00	67.24
2.320	2.320 (0.432)	72	1466			0.00- 30.00	6.23
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	44339	50.0000	46.190	70.00- 130.00	100.00
2.530	2.530 (0.471)	103	28032			0.00- 30.00	63.22
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	8288	50.0000	53.108	70.00- 130.00	100.00
2.810	2.810 (0.523)	43	2268			0.00- 30.00	27.36
2.810	2.810 (0.523)	46	3636			0.00- 30.00	43.87
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	26978	50.0000	44.743	70.00- 130.00	100.00
3.090	3.090 (0.575)	153	18103			0.00- 30.00	67.10
3.090	3.090 (0.575)	101	34097			94.24- 154.24	126.39
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.118	3.118 (0.581)	61	29485	50.0000	46.372	70.00- 130.00	100.00
3.118	3.118 (0.581)	96	15142			0.00- 30.00	51.35
3.118	3.118 (0.581)	98	10075			3.44- 63.44	34.17
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	8538	50.0000	47.215	70.00- 130.00	100.00
3.230	3.230 (0.601)	43	30157			0.00- 30.00	353.21
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	39419	50.0000	47.890	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.370 (0.627)	45	32172	50.0000	45.078	70.00- 130.00	100.00
3.370	3.370 (0.627)	43	6226			0.00- 30.00	19.35
3.370	3.370 (0.627)	59	1131			0.00- 30.00	3.52
38 3-Chloropropene					CAS #: 107-05-1		
3.538	3.538 (0.659)	76	6558	50.0000	44.486	70.00- 130.00	100.00
3.538	3.538 (0.659)	41	22368			0.00- 30.00	341.08
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	24847	50.0000	50.114	70.00- 130.00	100.00
3.705	3.705 (0.690)	84	14535			0.00- 30.00	58.50
3.705	3.705 (0.690)	51	7725			0.00- 30.00	31.09
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.708)	59	26599	50.0000	50.514	70.00- 130.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
46 tert-Butyl-Alcohol (continued)							
3.803	3.803 (0.708)	41	6287			0.00- 30.00	23.64
3.803	3.803 (0.708)	57	3175			0.00- 30.00	11.94
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	39105	50.0000	44.899	70.00- 130.00	100.00
3.915	3.915 (0.729)	57	11750			0.00- 30.00	30.05
3.915	3.915 (0.729)	41	11074			0.00- 30.00	28.32
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	16339	50.0000	45.710	70.00- 130.00	100.00
3.943	3.943 (0.734)	61	25341			0.00- 30.00	155.10
3.943	3.943 (0.734)	98	10644			0.00- 30.00	65.14
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.776)	57	32817	50.0000	46.968	70.00- 130.00	100.00
4.153	4.153 (0.773)	43	21350			0.00- 30.00	65.06
4.167	4.167 (0.776)	86	5269			0.00- 30.00	16.06
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.825)	45	70106	50.0000	47.825	70.00- 130.00	100.00
4.447	4.447 (0.828)	87	14315			0.00- 30.00	20.42
4.433	4.433 (0.825)	59	7642			0.00- 30.00	10.90
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	32473	50.0000	46.301	70.00- 130.00	100.00
4.447	4.447 (0.828)	65	9600			0.00- 30.00	29.56
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	3896	50.0000	42.964	70.00- 130.00	100.00
4.489	4.489 (0.836)	43	53840			0.00- 30.00	1381.93
4.489	4.489 (0.836)	42	4955			0.00- 30.00	127.18
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.825	4.825 (0.898)	59	56716	50.0000	46.542	70.00- 130.00	100.00
4.839	4.839 (0.901)	87	21250			0.00- 30.00	37.47
4.825	4.825 (0.898)	41	11977			0.00- 30.00	21.12
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.091 (0.948)	61	24010	50.0000	45.185	70.00- 130.00	100.00
5.091	5.091 (0.948)	96	16323			0.00- 30.00	67.98
5.091	5.091 (0.948)	98	10372			12.87- 72.87	43.20
70 2-Butanone					CAS #: 78-93-3		
5.119	5.119 (0.953)	72	7335	50.0000	44.049	70.00- 130.00	100.00
5.119	5.119 (0.953)	43	38967			0.00- 30.00	531.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
5.119	5.119 (0.953)	57	3282			0.00- 30.00	44.74
72 Tetrahydrofuran					CAS #: 109-99-9		
5.356	5.356 (0.997)	42	22753	50.0000	45.827	70.00- 130.00	100.00
5.356	5.356 (0.997)	71	6841			0.00- 30.00	30.07
5.356	5.356 (0.997)	72	7726			0.00- 30.00	33.96
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	32125	50.0000	45.682	70.00- 130.00	100.00
5.440	5.440 (1.013)	85	21427			0.00- 30.00	66.70
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	35057	50.0000	44.324	70.00- 130.00	100.00
5.594	5.594 (1.042)	99	22117			0.00- 30.00	63.09
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	22522	50.0000	43.987	70.00- 130.00	100.00
5.580	5.580 (1.039)	56	31032			0.00- 30.00	137.79
5.580	5.580 (1.039)	41	18809			51.27- 111.27	83.51
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	36552	50.0000	44.578	70.00- 130.00	100.00
5.734	5.734 (1.068)	117	37199			0.00- 30.00	101.77
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.115)	57	96903	50.0000	45.044	70.00- 130.00	100.00
5.986	5.986 (1.115)	56	30404			0.00- 30.00	31.38
5.986	5.986 (1.115)	41	25572			0.00- 30.00	26.39
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	45644	50.0000	43.684	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	10884			0.00- 30.00	23.85
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.135)	73	47258	50.0000	47.556	70.00- 130.00	100.00
6.098	6.098 (1.135)	87	11665			0.00- 30.00	24.68
6.098	6.098 (1.135)	55	14630			0.00- 30.00	30.96
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	25255	50.0000	44.757	70.00- 130.00	100.00
6.112	6.112 (0.942)	64	7998			0.00- 30.00	31.67
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	17884	50.0000	45.783	70.00- 130.00	100.00
6.224	6.224 (0.959)	43	37330			0.00- 30.00	208.73

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
91 Heptane (continued)							
6.224	6.224 (0.959)	100	6911			0.00- 30.00	38.64
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	22219	50.0000	39.094	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	26036			0.00- 30.00	117.18
6.742	6.742 (1.039)	97	13748			34.33- 94.33	61.87
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.868	6.868 (1.058)	83	29768	50.0000	44.101	70.00- 130.00	100.00
6.868	6.868 (1.058)	98	15973			0.00- 30.00	53.66
6.868	6.868 (1.058)	55	28997			0.00- 30.00	97.41
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.008	7.008 (1.080)	63	19572	50.0000	45.377	70.00- 130.00	100.00
7.008	7.008 (1.080)	62	13606			0.00- 30.00	69.52
7.008	7.008 (1.080)	41	12862			39.54- 99.54	65.72
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	10900	50.0000	43.546	70.00- 130.00	100.00
7.119	7.119 (1.097)	58	9036			0.00- 30.00	82.90
7.119	7.119 (1.097)	57	3231			0.00- 30.00	29.64
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	33047	50.0000	43.175	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	20761			0.00- 30.00	62.82
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	23589	50.0000	41.747	70.00- 130.00	100.00
7.665	7.665 (1.181)	77	7539			0.00- 30.00	31.96
7.665	7.665 (1.181)	39	15800			34.56- 94.56	66.98
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	6403	50.0000	43.421	70.00- 130.00	100.00
7.791	7.791 (1.200)	43	48190			0.00- 30.00	752.62
7.791	7.791 (1.200)	58	17367			0.00- 30.00	271.23
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	60439	50.0000	43.702	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	35876			0.00- 30.00	59.36
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	25582	50.0000	42.841	70.00- 130.00	100.00
8.127	8.127 (0.911)	77	7804			0.00- 30.00	30.51
8.127	8.127 (0.911)	39	15500			30.64- 90.64	60.59

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	19404	50.0000	42.886	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	12063			0.00- 30.00	62.17
8.267	8.267 (0.926)	83	16211			54.08- 114.08	83.54
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	28491	50.0000	42.409	70.00- 130.00	100.00
8.295	8.295 (0.929)	129	23018			0.00- 30.00	80.79
8.295	8.295 (0.929)	131	22651			47.65- 107.65	79.50
122 2-Hexanone					CAS #: 591-78-6		
8.435	8.435 (0.945)	58	22647	50.0000	41.403	70.00- 130.00	100.00
8.421	8.421 (0.944)	43	46005			0.00- 30.00	203.14
8.435	8.435 (0.945)	100	4702			0.00- 30.00	20.76
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.533 (0.956)	129	35030	50.0000	40.757	70.00- 130.00	100.00
8.533	8.533 (0.956)	127	27537			0.00- 30.00	78.61
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.631	8.631 (0.967)	107	31639	50.0000	43.587	70.00- 130.00	100.00
8.631	8.631 (0.967)	109	29374			0.00- 30.00	92.84
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	51673	50.0000	43.416	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	16836			0.00- 30.00	32.58
8.938	8.938 (1.002)	77	30316			19.73- 79.73	58.67
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	24922	50.0000	42.285	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	78661			0.00- 30.00	315.63
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	31355	50.0000	41.837	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	60234			0.00- 30.00	192.10
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	29044	50.0000	40.500	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	59735			0.00- 30.00	205.67
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	45482	50.0000	40.639	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	21157			0.00- 30.00	46.52
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	25795	50.0000	35.965	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	13202			0.00- 30.00	51.18
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	87823	50.0000	42.018	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	25467			0.00- 30.00	29.00
9.526	9.526 (1.067)	51	10674			0.00- 30.00	12.15
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	37602	50.0000	39.764	70.00- 130.00	100.00
9.736	9.736 (1.091)	85	23951			0.00- 30.00	63.70
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	96827	50.0000	41.333	70.00- 130.00	100.00
9.764	9.764 (1.094)	120	24706			0.00- 30.00	25.52
9.764	9.764 (1.094)	105	3798			0.00- 30.00	3.92
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	88285	50.0000	41.792	70.00- 130.00	100.00
9.820	9.820 (1.100)	120	27152			0.00- 30.00	30.75
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	77684	50.0000	41.179	70.00- 130.00	100.00
9.848	9.848 (1.103)	120	38049			0.00- 30.00	48.98
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	63880	50.0000	39.288	70.00- 130.00	100.00
10.058	10.058 (1.127)	120	31479			0.00- 30.00	49.28
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	44155	50.0000	39.721	70.00- 130.00	100.00
10.240	10.240 (1.147)	148	27031			0.00- 30.00	61.22
10.240	10.240 (1.147)	111	17291			0.00- 30.00	39.16
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	45592	50.0000	38.335	70.00- 130.00	100.00
10.282	10.282 (1.152)	148	29326			0.00- 30.00	64.32
10.282	10.282 (1.152)	111	16901			0.00- 30.00	37.07
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.352	10.352 (1.160)	91	44493	50.0000	36.804	70.00- 130.00	100.00
10.352	10.352 (1.160)	126	10365			0.00- 30.00	23.30
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	38087	50.0000	37.909	70.00- 130.00	100.00
10.477	10.477 (1.174)	148	24846			0.00- 30.00	65.23

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
165 1,2-Dichlorobenzene (continued)							
10.477	10.477 (1.174)	111	15966			11.15- 71.15	41.92
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	20574	50.0000	48.177	70.00- 130.00	100.00
11.261	11.261 (1.262)	182	18969			0.00- 30.00	92.20
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.303	11.303 (1.267)	225	13160	50.0000	47.836	70.00- 130.00	100.00
11.303	11.303 (1.267)	223	8028			0.00- 30.00	61.00
171 Naphthalene					CAS #: 91-20-3		
11.387	11.387 (1.276)	128	45209	50.0000	42.878	70.00- 130.00	100.00
11.387	11.387 (1.276)	127	5823			0.00- 30.00	12.88

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051106.d
Lab Smp Id: 1963-138
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 50ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	124051	1.25
93 1,4-Difluorobenze	464051	278431	649671	473703	2.08
126 Chlorobenzene-d5	453275	271965	634585	458704	1.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051106.d

Page 1

Date : 11-MAY-2010 15:51

Client ID: Level-4

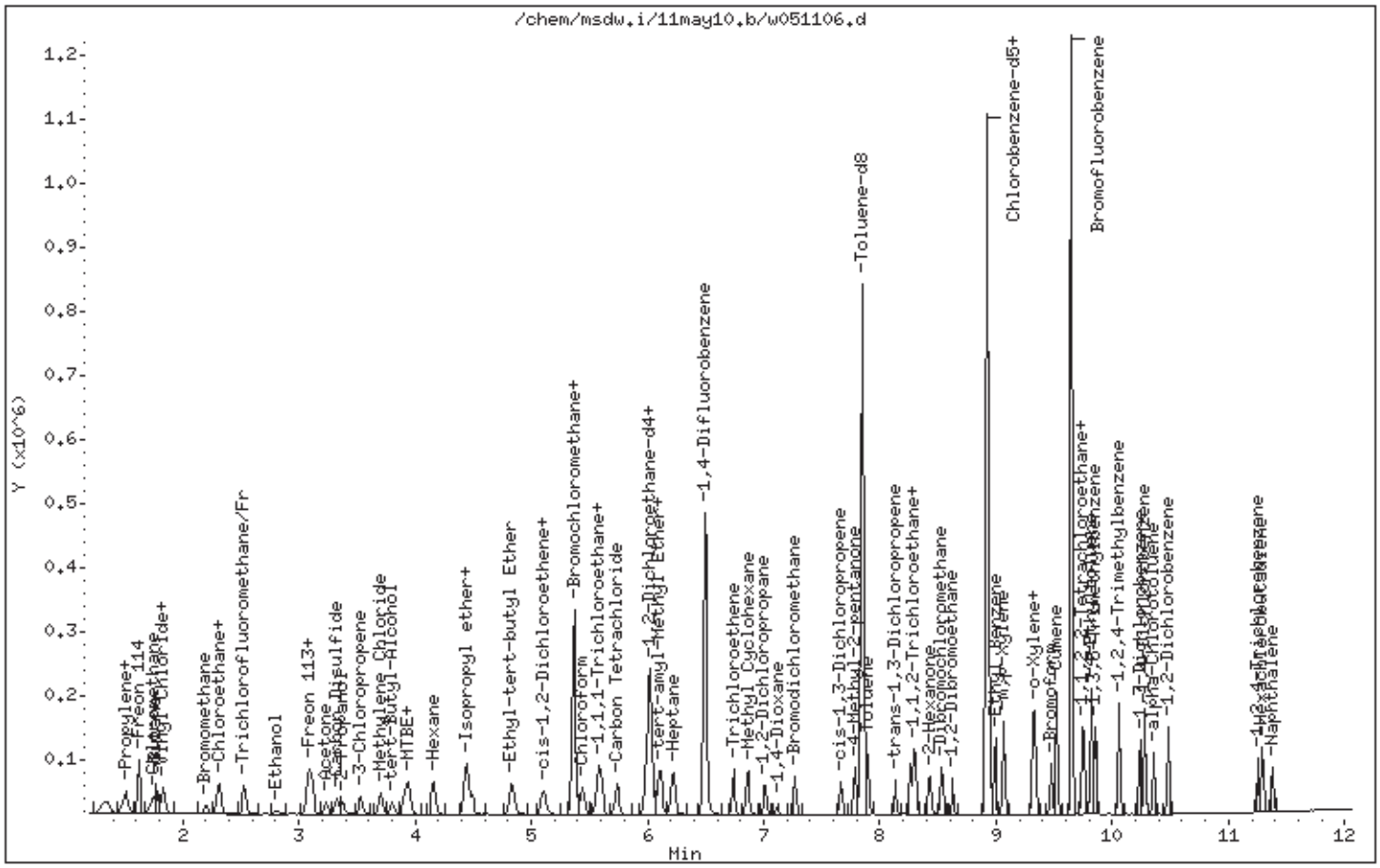
Instrument: msdw.i

Sample Info: 12.5ml #35997

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/01jun10.b/w060105.d
Lab Smp Id: Calib Client Smp ID: Level 5
Inj Date : 01-JUN-2010 18:28
Operator : gd Inst ID: msdw.i
Smp Info : 25ml #1968-8
Misc Info : 200ppbv->100ppbv, Ethyl Acetate
Comment :
Method : /chem/msdw.i/01jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 12:44 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: EthAceICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	137074	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	107474			0.00- 30.00	78.41
5.370	5.370 (1.000)	49	185812			109.55- 169.55	135.56
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.504	6.504 (1.000)	114	512513	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	68183			0.00- 30.00	13.30
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	495886	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	239746			0.00- 30.00	48.35
71 Ethyl Acetate					CAS #: 141-78-6		
5.146	5.146 (0.958)	70	6095	100.000	100.00	0.00- 30.00	100.00
5.146	5.146 (0.958)	43	85637			0.00- 30.00	1405.04
5.146	5.146 (0.958)	61	10671			0.00- 30.00	175.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w060105.d
Lab Smp Id: Calib
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/01jun10.b/w1050511b.m
Misc Info: 200ppbv->100ppbv, Ethyl Acetate

Calibration Date: 01-JUN-2010
Calibration Time: 18:28
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	137074	82244	191904	137074	0.00
93 1,4-Difluorobenze	512513	307508	717518	512513	0.00
126 Chlorobenzene-d5	495886	297532	694240	495886	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.50	6.17	6.83	6.50	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/01jun10.b/w060105.d

Date : 01-JUN-2010 18:28

Client ID: Level 5

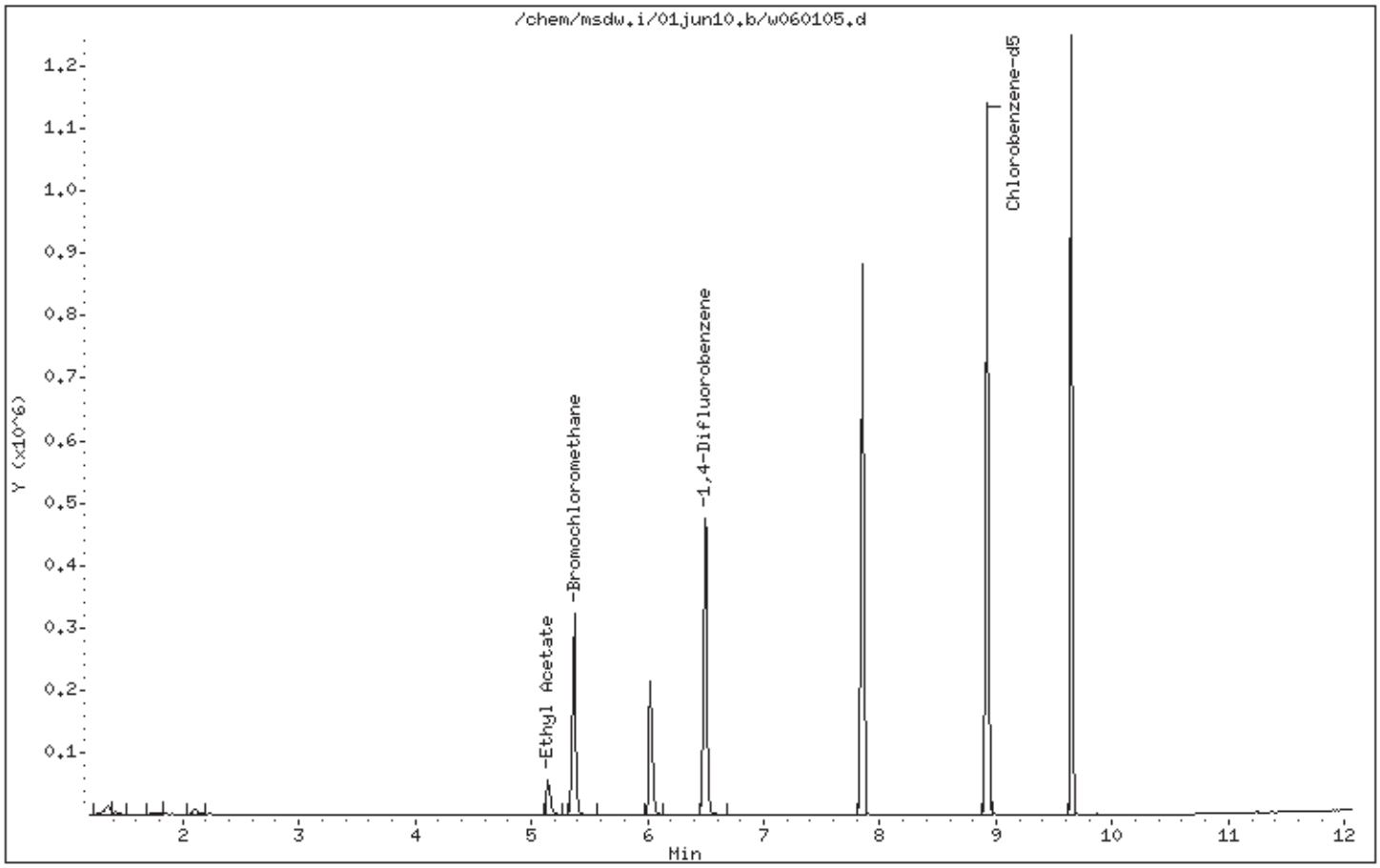
Instrument: msdw.i

Sample Info: 25ml #1968-8

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051107.d
Lab Smp Id: 1963-138 Client Smp ID: Level-5
Inj Date : 11-MAY-2010 16:29
Operator : gd Inst ID: msdw.i
Smp Info : 25ml #35997
Misc Info : 100ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 16:29 Cal File: w051107.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	120762	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	93276			0.00- 30.00	77.24
5.356	5.356 (1.000)	49	180038			117.03- 177.03	149.08
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	464647	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	61659			0.00- 30.00	13.27
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	448091	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	223232			0.00- 30.00	49.82
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	156107	400.000	384.67	70.00- 130.00	100.00
6.028	6.028 (1.122)	67	79573			0.00- 30.00	50.97
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	446035	400.000	397.39	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	48067			0.00- 30.00	10.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	310779			0.00- 30.00	69.68
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	254983	400.000	406.96	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	301529			86.64- 146.64	118.25
9.652	9.652 (1.082)	176	246593			66.47- 126.47	96.71
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	24002	100.000	92.909	70.00- 130.00	100.00
1.481	1.481 (0.276)	42	15902			0.00- 30.00	66.25
1.481	1.481 (0.276)	39	17965			0.00- 30.00	74.85
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.281)	85	75127	100.000	92.893	70.00- 130.00	100.00
1.509	1.509 (0.281)	87	24089			0.00- 30.00	32.06
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.302)	135	59565	100.000	91.605	70.00- 130.00	100.00
1.621	1.621 (0.302)	137	18271			0.00- 30.00	30.67
10 Chloromethane					CAS #: 74-87-3		
1.719	1.719 (0.320)	50	34155	100.000	93.122	70.00- 130.00	100.00
1.719	1.719 (0.320)	52	11023			0.00- 30.00	32.27
11 Butane					CAS #: 106-97-8		
1.775	1.775 (0.330)	58	9182	100.000	97.424	70.00- 130.00	100.00
1.775	1.775 (0.330)	43	59160			0.00- 30.00	644.30
12 Vinyl Chloride					CAS #: 75-01-4		
1.817	1.817 (0.338)	62	32743	100.000	89.691	70.00- 130.00	100.00
1.817	1.817 (0.338)	64	9976			0.00- 30.00	30.47
13 1,3-Butadiene					CAS #: 106-99-0		
1.831	1.831 (0.341)	54	26484	100.000	85.082	70.00- 130.00	100.00
1.831	1.831 (0.341)	39	27744			0.00- 30.00	104.76
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.409)	94	25059	100.000	95.763	70.00- 130.00	100.00
2.194	2.194 (0.409)	96	23000			0.00- 30.00	91.78
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.427)	64	17165	100.000	90.297	70.00- 130.00	100.00
2.292	2.292 (0.427)	49	5583			0.00- 30.00	32.53
2.292	2.292 (0.427)	66	5450			0.00- 30.00	31.75

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	43903	100.000	94.354	70.00- 130.00	100.00
2.320	2.320 (0.432)	57	30441			0.00- 30.00	69.34
2.320	2.320 (0.432)	72	3441			0.00- 30.00	7.84
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	85783	100.000	91.797	70.00- 130.00	100.00
2.530	2.530 (0.471)	103	55520			0.00- 30.00	64.72
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	13966	100.000	91.928	70.00- 130.00	100.00
2.810	2.810 (0.523)	43	3317			0.00- 30.00	23.75
2.810	2.810 (0.523)	46	5865			0.00- 30.00	41.99
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	53978	100.000	91.960	70.00- 130.00	100.00
3.090	3.090 (0.575)	153	35115			0.00- 30.00	65.05
3.090	3.090 (0.575)	101	68109			94.24- 154.24	126.18
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.104 (0.578)	61	57270	100.000	92.523	70.00- 130.00	100.00
3.118	3.118 (0.581)	96	29488			0.00- 30.00	51.49
3.118	3.118 (0.581)	98	19319			3.44- 63.44	33.73
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	16366	100.000	92.968	70.00- 130.00	100.00
3.230	3.230 (0.601)	43	56371			0.00- 30.00	344.44
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	75772	100.000	94.562	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.370 (0.627)	45	63098	100.000	90.818	70.00- 130.00	100.00
3.370	3.370 (0.627)	43	13603			0.00- 30.00	21.56
3.370	3.370 (0.627)	59	2254			0.00- 30.00	3.57
38 3-Chloropropene					CAS #: 107-05-1		
3.538	3.538 (0.659)	76	13285	100.000	92.574	70.00- 130.00	100.00
3.538	3.538 (0.659)	41	45476			0.00- 30.00	342.31
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	44681	100.000	92.572	70.00- 130.00	100.00
3.705	3.705 (0.690)	84	25812			0.00- 30.00	57.77
3.705	3.705 (0.690)	51	14047			0.00- 30.00	31.44
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.708)	59	49186	100.000	95.953	70.00- 130.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.803	3.803 (0.708)	41	10734			0.00- 30.00	21.82
3.803	3.803 (0.708)	57	6123			0.00- 30.00	12.45
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	77887	100.000	91.863	70.00- 130.00	100.00
3.915	3.915 (0.729)	57	22002			0.00- 30.00	28.25
3.915	3.915 (0.729)	41	20619			0.00- 30.00	26.47
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	32454	100.000	93.265	70.00- 130.00	100.00
3.943	3.943 (0.734)	61	50154			0.00- 30.00	154.54
3.943	3.943 (0.734)	98	20555			0.00- 30.00	63.34
52 Hexane					CAS #: 110-54-3		
4.153	4.153 (0.773)	57	62092	100.000	91.287	70.00- 130.00	100.00
4.153	4.153 (0.773)	43	41165			0.00- 30.00	66.30
4.167	4.167 (0.776)	86	10035			0.00- 30.00	16.16
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.825)	45	137303	100.000	96.216	70.00- 130.00	100.00
4.433	4.433 (0.825)	87	29356			0.00- 30.00	21.38
4.433	4.433 (0.825)	59	14618			0.00- 30.00	10.65
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	64257	100.000	94.115	70.00- 130.00	100.00
4.447	4.447 (0.828)	65	18981			0.00- 30.00	29.54
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	8031	100.000	90.977	70.00- 130.00	100.00
4.489	4.489 (0.836)	43	109969			0.00- 30.00	1369.31
4.489	4.489 (0.836)	42	9903			0.00- 30.00	123.31
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.825	4.825 (0.898)	59	114750	100.000	96.729	70.00- 130.00	100.00
4.839	4.839 (0.901)	87	42034			0.00- 30.00	36.63
4.825	4.825 (0.898)	41	22518			0.00- 30.00	19.62
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.091 (0.948)	61	47151	100.000	91.152	70.00- 130.00	100.00
5.091	5.091 (0.948)	96	32843			0.00- 30.00	69.65
5.091	5.091 (0.948)	98	20682			12.87- 72.87	43.86
70 2-Butanone					CAS #: 78-93-3		
5.119	5.119 (0.953)	72	15238	100.000	94.001	70.00- 130.00	100.00
5.119	5.119 (0.953)	43	78050			0.00- 30.00	512.21

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
5.119	5.119 (0.953)	57	6128			0.00- 30.00	40.22
72 Tetrahydrofuran					CAS #: 109-99-9		
5.356	5.356 (0.997)	42	44745	100.000	92.576	70.00- 130.00	100.00
5.356	5.356 (0.997)	71	13486			0.00- 30.00	30.14
5.356	5.356 (0.997)	72	14617			0.00- 30.00	32.67
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	63582	100.000	92.876	70.00- 130.00	100.00
5.440	5.440 (1.013)	85	42478			0.00- 30.00	66.81
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	70216	100.000	91.196	70.00- 130.00	100.00
5.594	5.594 (1.042)	99	45405			0.00- 30.00	64.66
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	45601	100.000	91.488	70.00- 130.00	100.00
5.580	5.580 (1.039)	56	62559			0.00- 30.00	137.19
5.580	5.580 (1.039)	41	36194			51.27- 111.27	79.37
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	73244	100.000	91.759	70.00- 130.00	100.00
5.734	5.734 (1.068)	117	74718			0.00- 30.00	102.01
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.115)	57	192482	100.000	91.908	70.00- 130.00	100.00
5.986	5.986 (1.115)	56	62333			0.00- 30.00	32.38
5.986	5.986 (1.115)	41	50392			0.00- 30.00	26.18
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	91242	100.000	89.025	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	21183			0.00- 30.00	23.22
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.135)	73	92765	100.000	95.892	70.00- 130.00	100.00
6.098	6.098 (1.135)	87	23399			0.00- 30.00	25.22
6.098	6.098 (1.135)	55	27263			0.00- 30.00	29.39
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	51341	100.000	92.760	70.00- 130.00	100.00
6.112	6.112 (0.942)	64	16170			0.00- 30.00	31.50
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	33746	100.000	88.073	70.00- 130.00	100.00
6.224	6.224 (0.959)	43	73213			0.00- 30.00	216.95

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
91 Heptane (continued)							
6.224	6.224 (0.959)	100	13892			0.00- 30.00	41.17
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	42098	100.000	75.516	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	50130			0.00- 30.00	119.08
6.742	6.742 (1.039)	97	27569			34.33- 94.33	65.49
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.868	6.868 (1.058)	83	60281	100.000	91.046	70.00- 130.00	100.00
6.868	6.868 (1.058)	98	31979			0.00- 30.00	53.05
6.868	6.868 (1.058)	55	56086			0.00- 30.00	93.04
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.008	7.008 (1.080)	63	37977	100.000	89.765	70.00- 130.00	100.00
7.008	7.008 (1.080)	62	27857			0.00- 30.00	73.35
7.008	7.008 (1.080)	41	25941			39.54- 99.54	68.31
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	22642	100.000	92.218	70.00- 130.00	100.00
7.119	7.119 (1.097)	58	17802			0.00- 30.00	78.62
7.119	7.119 (1.097)	57	6046			0.00- 30.00	26.70
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	65353	100.000	87.045	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	41976			0.00- 30.00	64.23
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	50210	100.000	90.591	70.00- 130.00	100.00
7.665	7.665 (1.181)	77	16043			0.00- 30.00	31.95
7.665	7.665 (1.181)	39	31800			34.56- 94.56	63.33
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	13048	100.000	90.208	70.00- 130.00	100.00
7.791	7.791 (1.200)	43	96515			0.00- 30.00	739.69
7.791	7.791 (1.200)	58	34733			0.00- 30.00	266.19
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	121152	100.000	89.309	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	72319			0.00- 30.00	59.69
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	51506	100.000	88.297	70.00- 130.00	100.00
8.127	8.127 (0.911)	77	15815			0.00- 30.00	30.71
8.127	8.127 (0.911)	39	30675			30.64- 90.64	59.56

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	39979	100.000	90.453	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	23935			0.00- 30.00	59.87
8.267	8.267 (0.926)	83	32643			54.08- 114.08	81.65
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	58466	100.000	89.087	70.00- 130.00	100.00
8.295	8.295 (0.929)	129	45437			0.00- 30.00	77.72
8.295	8.295 (0.929)	131	44609			47.65- 107.65	76.30
122 2-Hexanone					CAS #: 591-78-6		
8.435	8.435 (0.945)	58	48247	100.000	90.294	70.00- 130.00	100.00
8.421	8.421 (0.944)	43	92322			0.00- 30.00	191.35
8.435	8.435 (0.945)	100	10026			0.00- 30.00	20.78
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.533 (0.956)	129	72714	100.000	86.606	70.00- 130.00	100.00
8.533	8.533 (0.956)	127	55679			0.00- 30.00	76.57
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.631	8.631 (0.967)	107	63740	100.000	89.890	70.00- 130.00	100.00
8.631	8.631 (0.967)	109	59603			0.00- 30.00	93.51
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	104097	100.000	89.534	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	33433			0.00- 30.00	32.12
8.938	8.938 (1.002)	77	54286			19.73- 79.73	52.15
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	51032	100.000	88.636	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	158430			0.00- 30.00	310.45
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	65075	100.000	88.887	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	121046			0.00- 30.00	186.01
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	59618	100.000	85.102	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	120005			0.00- 30.00	201.29
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	94816	100.000	86.727	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	43035			0.00- 30.00	45.39
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	55733	100.000	79.547	70.00- 130.00	100.00

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	28767			0.00- 30.00	51.62
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	185066	100.000	90.641	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	51180			0.00- 30.00	27.65
9.526	9.526 (1.067)	51	22525			0.00- 30.00	12.17
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	78369	100.000	84.838	70.00- 130.00	100.00
9.736	9.736 (1.091)	85	49455			0.00- 30.00	63.11
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	201659	100.000	88.123	70.00- 130.00	100.00
9.764	9.764 (1.094)	120	50658			0.00- 30.00	25.12
9.764	9.764 (1.094)	105	8247			0.00- 30.00	4.09
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	187294	100.000	90.761	70.00- 130.00	100.00
9.820	9.820 (1.100)	120	57431			0.00- 30.00	30.66
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	163750	100.000	88.856	70.00- 130.00	100.00
9.848	9.848 (1.103)	120	82106			0.00- 30.00	50.14
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	139659	100.000	87.930	70.00- 130.00	100.00
10.058	10.058 (1.127)	120	68565			0.00- 30.00	49.09
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	94092	100.000	86.649	70.00- 130.00	100.00
10.240	10.240 (1.147)	148	59732			0.00- 30.00	63.48
10.240	10.240 (1.147)	111	36831			0.00- 30.00	39.14
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	97686	100.000	84.082	70.00- 130.00	100.00
10.282	10.282 (1.152)	148	62686			0.00- 30.00	64.17
10.282	10.282 (1.152)	111	37576			0.00- 30.00	38.47
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.352	10.352 (1.160)	91	104044	100.000	88.102	70.00- 130.00	100.00
10.352	10.352 (1.160)	126	23961			0.00- 30.00	23.03
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	83927	100.000	85.512	70.00- 130.00	100.00
10.477	10.477 (1.174)	148	53656			0.00- 30.00	63.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 1,2-Dichlorobenzene (continued)							
10.477	10.477 (1.174)	111	35427			11.15- 71.15	42.21
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	50355	100.000	120.71	70.00- 130.00	100.00
11.247	11.247 (1.260)	182	44685			0.00- 30.00	88.74
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	31463	100.000	117.07	70.00- 130.00	100.00
11.289	11.289 (1.265)	223	19347			0.00- 30.00	61.49
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	106871	100.000	103.76	70.00- 130.00	100.00
11.373	11.373 (1.274)	127	13350			0.00- 30.00	12.49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051107.d
Lab Smp Id: 1963-138
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 100ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	120762	-1.43
93 1,4-Difluorobenze	464051	278431	649671	464647	0.13
126 Chlorobenzene-d5	453275	271965	634585	448091	-1.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051107.d

Date : 11-MAY-2010 16:29

Client ID: Level-5

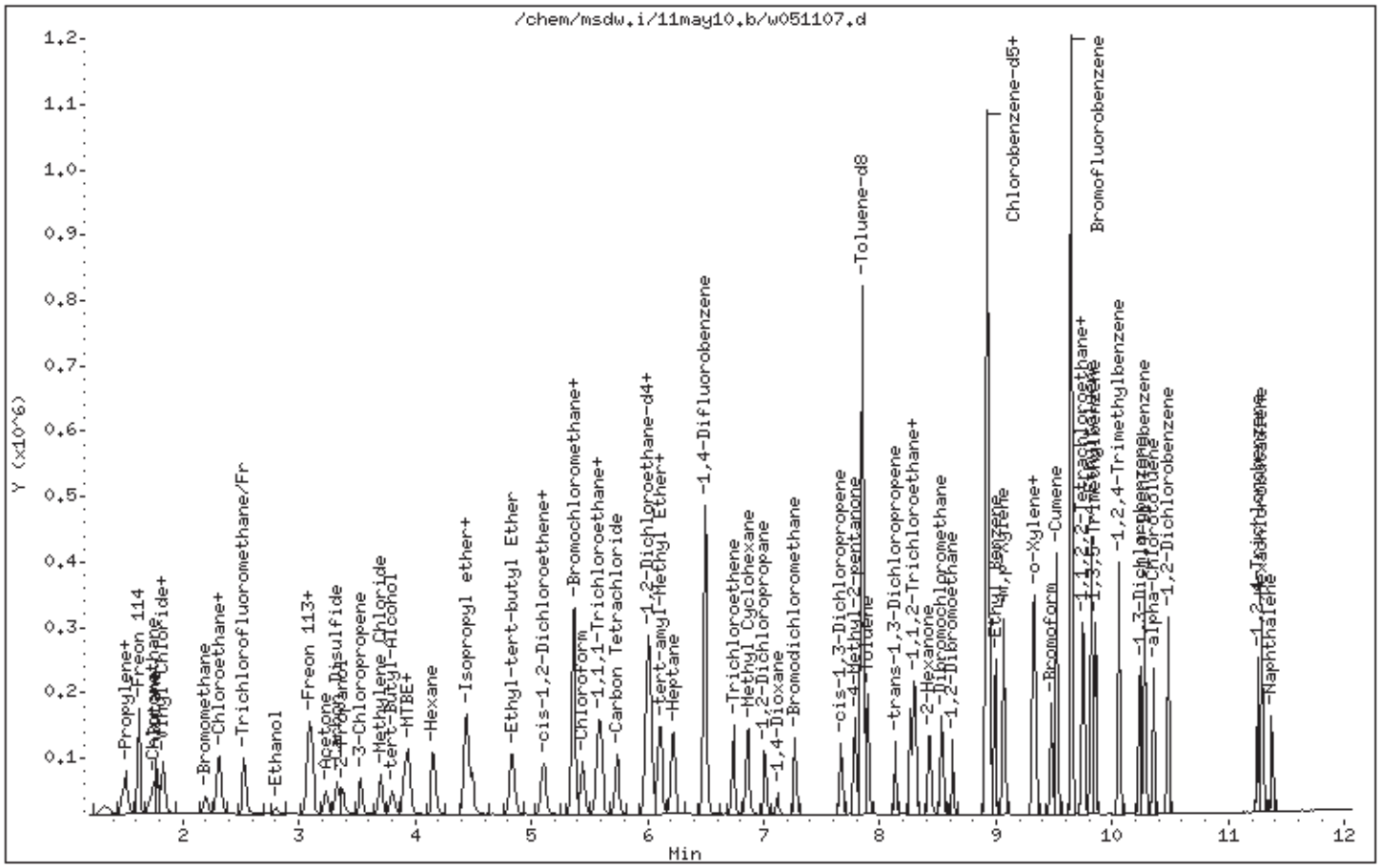
Instrument: msdw.i

Sample Info: 25ml #35997

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/01jun10.b/w060106.d
Lab Smp Id: Calib Client Smp ID: Level 6
Inj Date : 01-JUN-2010 18:54
Operator : gd Inst ID: msdw.i
Smp Info : 50ml #1968-8
Misc Info : 200ppbv->200ppbv, Ethyl Acetate
Comment :
Method : /chem/msdw.i/01jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 12:46 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:54 Cal File: w060106.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: EthAceICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	137874	400.000		80.00- 120.00	100.00
5.370	5.370 (1.000)	128	105337			46.40- 106.40	76.40
5.370	5.370 (1.000)	49	185181			104.31- 164.31	134.31
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.504	6.504 (1.000)	114	505919	400.000		80.00- 120.00	100.00
6.490	6.490 (1.000)	88	67170			0.00- 43.28	13.28
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	489352	400.000		80.00- 120.00	100.00
8.924	8.924 (1.000)	82	237694			18.57- 78.57	48.57
71 Ethyl Acetate					CAS #: 141-78-6		
5.147	5.147 (0.958)	70	13076	200.000	208.98	80.00- 120.00	100.00(A)
5.147	5.147 (0.958)	43	168638			1259.68-1319.68	1289.68
5.147	5.147 (0.958)	61	21900			137.48- 197.48	167.48

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w060106.d
Lab Smp Id: Calib
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/01jun10.b/w1050511b.m
Misc Info: 200ppbv->200ppbv, Ethyl Acetate

Calibration Date: 01-JUN-2010
Calibration Time: 18:54
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	137874	82724	193024	137874	0.00
93 1,4-Difluorobenze	505919	303551	708287	505919	0.00
126 Chlorobenzene-d5	489352	293611	685093	489352	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.50	6.17	6.83	6.50	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/01jun10.b/w060106.d

Date : 01-JUN-2010 18:54

Client ID: Level 6

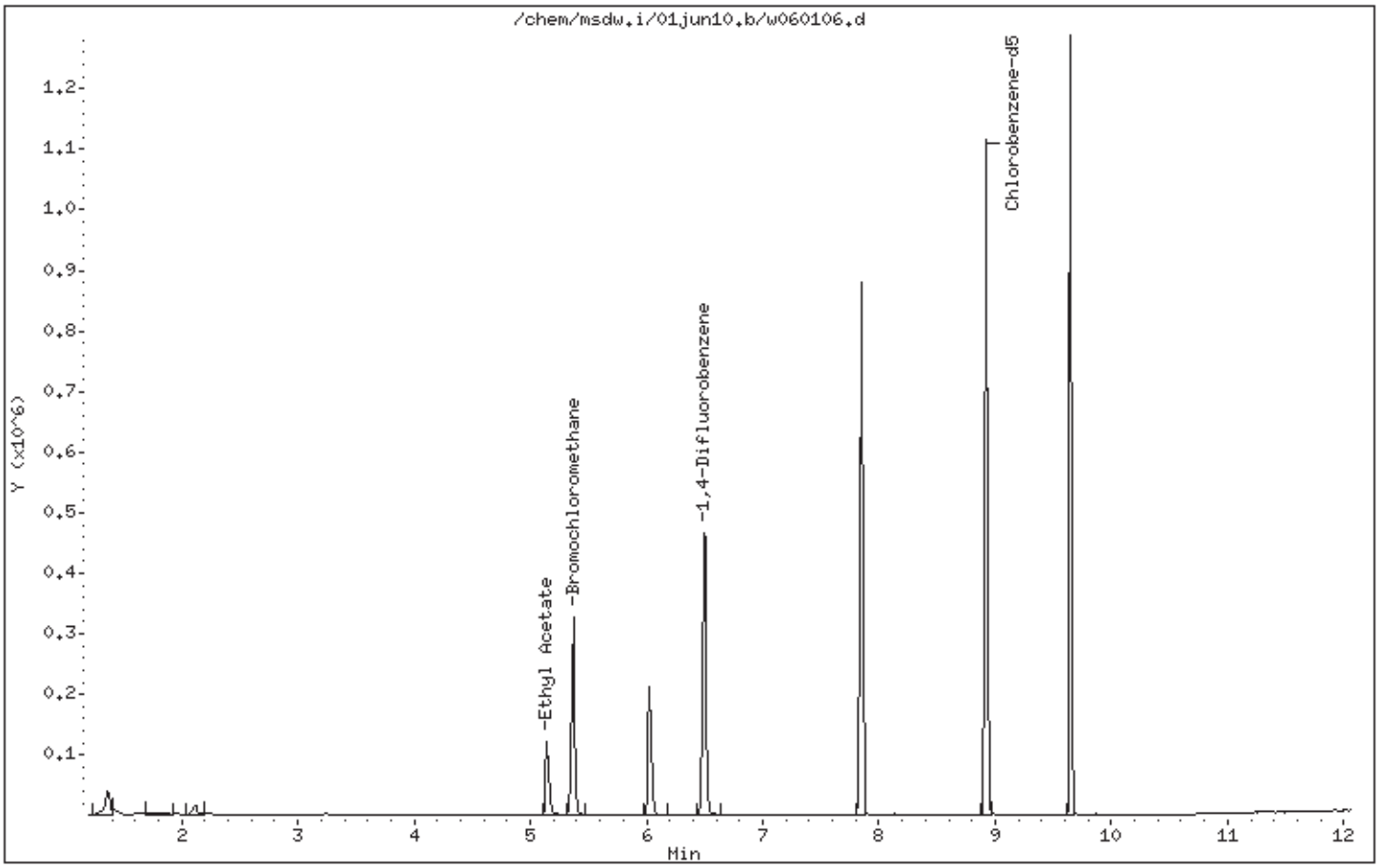
Instrument: msdw.i

Sample Info: 50ml #1968-8

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051108.d
Lab Smp Id: 1963-138 Client Smp ID: Level-6
Inj Date : 11-MAY-2010 17:28
Operator : gd Inst ID: msdw.i
Smp Info : 50ml #35997
Misc Info : 200ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 17:28 Cal File: w051108.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	122520	400.000		80.00- 120.00	100.00
5.370	5.370 (1.000)	128	94623			47.23- 107.23	77.23
5.370	5.370 (1.000)	49	180140			117.03- 177.03	147.03
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	464051	400.000		80.00- 120.00	100.00
6.490	6.490 (1.000)	88	62064			0.00- 43.37	13.37
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	453275	400.000		80.00- 120.00	100.00
8.924	8.924 (1.000)	82	227105			20.10- 80.10	50.10
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	156463	400.000	380.01	80.00- 120.00	100.00
6.028	6.028 (1.122)	67	81400			22.03- 82.03	52.03
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	449354	400.000	400.86	80.00- 120.00	100.00
7.847	7.847 (1.209)	70	47788			0.00- 40.63	10.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	311267			39.27- 99.27	69.27
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	260900	400.000	411.64	80.00- 120.00	100.00
9.652	9.652 (1.082)	95	304308			86.64- 146.64	116.64
9.652	9.652 (1.082)	176	251685			66.47- 126.47	96.47
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	48641	200.000	185.58	80.00- 120.00	100.00
1.481	1.481 (0.276)	42	32366			36.54- 96.54	66.54
1.481	1.481 (0.276)	39	36258			44.54- 104.54	74.54
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.523	1.523 (0.284)	85	158721	200.000	193.44	80.00- 120.00	100.00
1.523	1.523 (0.284)	87	51254			2.29- 62.29	32.29
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.302)	135	124019	200.000	187.99	80.00- 120.00	100.00
1.621	1.621 (0.302)	137	38818			1.30- 61.30	31.30
10 Chloromethane					CAS #: 74-87-3		
1.719	1.719 (0.320)	50	69667	200.000	187.22	80.00- 120.00	100.00
1.719	1.719 (0.320)	52	22675			2.55- 62.55	32.55
11 Butane					CAS #: 106-97-8		
1.774	1.774 (0.330)	58	17972	200.000	187.95	80.00- 120.00	100.00
1.774	1.774 (0.330)	43	118651			630.20- 690.20	660.20
12 Vinyl Chloride					CAS #: 75-01-4		
1.830	1.830 (0.341)	62	66410	200.000	179.30	80.00- 120.00	100.00
1.830	1.830 (0.341)	64	20578			0.99- 60.99	30.99
13 1,3-Butadiene					CAS #: 106-99-0		
1.844	1.844 (0.343)	54	54846	200.000	173.67	80.00- 120.00	100.00
1.830	1.830 (0.341)	39	56679			73.34- 133.34	103.34
15 Bromomethane					CAS #: 74-83-9		
2.208	2.208 (0.411)	94	49604	200.000	186.84	80.00- 120.00	100.00
2.208	2.208 (0.411)	96	46284			63.31- 123.31	93.31
16 Chloroethane					CAS #: 75-00-3		
2.306	2.306 (0.429)	64	36978	200.000	191.73	80.00- 120.00	100.00
2.306	2.306 (0.429)	49	11512			1.13- 61.13	31.13
2.306	2.306 (0.429)	66	11098			0.01- 60.01	30.01

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	92000	200.000	194.88	80.00- 120.00	100.00
2.320	2.320 (0.432)	57	61887			37.27- 97.27	67.27
2.320	2.320 (0.432)	72	6502			0.00- 37.07	7.07
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	181671	200.000	191.62	80.00- 120.00	100.00
2.530	2.530 (0.471)	103	117321			34.58- 94.58	64.58
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	29392	200.000	190.69	80.00- 120.00	100.00
2.810	2.810 (0.523)	43	6538			0.00- 52.24	22.24
2.810	2.810 (0.523)	46	12102			11.17- 71.17	41.17
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	113847	200.000	191.17	80.00- 120.00	100.00
3.090	3.090 (0.575)	153	73120			34.23- 94.23	64.23
3.090	3.090 (0.575)	101	141449			94.24- 154.24	124.24
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.118	3.118 (0.581)	61	120943	200.000	192.59	80.00- 120.00	100.00
3.118	3.118 (0.581)	96	62003			21.27- 81.27	51.27
3.118	3.118 (0.581)	98	40443			3.44- 63.44	33.44
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	34990	200.000	195.91	80.00- 120.00	100.00
3.230	3.230 (0.601)	43	123157			321.98- 381.98	351.98
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	161215	200.000	198.31	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.370 (0.627)	45	135634	200.000	192.42	80.00- 120.00	100.00
3.370	3.370 (0.627)	43	30239			0.00- 52.29	22.29
3.370	3.370 (0.627)	59	4960			0.00- 33.66	3.66
38 3-Chloropropene					CAS #: 107-05-1		
3.537	3.537 (0.659)	76	28650	200.000	196.78	80.00- 120.00	100.00
3.537	3.537 (0.659)	41	93330			295.76- 355.76	325.76
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	96713	200.000	197.50	80.00- 120.00	100.00
3.705	3.705 (0.690)	84	54815			26.68- 86.68	56.68
3.705	3.705 (0.690)	51	29123			0.11- 60.11	30.11
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.708)	59	87591	200.000	168.42	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.803	3.803 (0.708)	41	19301			0.00- 52.04	22.04
3.803	3.803 (0.708)	57	10152			0.00- 41.59	11.59
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	161868	200.000	188.17	80.00- 120.00	100.00
3.915	3.915 (0.729)	57	46733			0.00- 58.87	28.87
3.915	3.915 (0.729)	41	43591			0.00- 56.93	26.93
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	65744	200.000	186.22	80.00- 120.00	100.00
3.943	3.943 (0.734)	61	104762			129.35- 189.35	159.35
3.943	3.943 (0.734)	98	42232			34.24- 94.24	64.24
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.776)	57	129393	200.000	187.50	80.00- 120.00	100.00
4.153	4.153 (0.773)	43	84202			35.07- 95.07	65.07
4.167	4.167 (0.776)	86	20353			0.00- 45.73	15.73
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.825)	45	286737	200.000	198.05	80.00- 120.00	100.00
4.433	4.433 (0.825)	87	61386			0.00- 51.41	21.41
4.433	4.433 (0.825)	59	30074			0.00- 40.49	10.49
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	133191	200.000	192.28	80.00- 120.00	100.00
4.447	4.447 (0.828)	65	40456			0.37- 60.37	30.37
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	17381	200.000	194.07	80.00- 120.00	100.00
4.489	4.489 (0.836)	43	231937			1304.43-1364.43	1334.43
4.489	4.489 (0.836)	42	20912			90.32- 150.32	120.32
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.839	4.839 (0.901)	59	242925	200.000	201.84	80.00- 120.00	100.00
4.839	4.839 (0.901)	87	89062			6.66- 66.66	36.66
4.825	4.825 (0.898)	41	47240			0.00- 49.45	19.45
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.091 (0.948)	61	100783	200.000	192.04	80.00- 120.00	100.00
5.091	5.091 (0.948)	96	67295			36.77- 96.77	66.77
5.091	5.091 (0.948)	98	43207			12.87- 72.87	42.87
70 2-Butanone					CAS #: 78-93-3		
5.119	5.119 (0.953)	72	32435	200.000	197.22	80.00- 120.00	100.00
5.119	5.119 (0.953)	43	165509			480.28- 540.28	510.28

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
5.119	5.119 (0.953)	57	13488			11.58- 71.58	41.58
72 Tetrahydrofuran					CAS #: 109-99-9		
5.356	5.356 (0.997)	42	94243	200.000	192.19	80.00- 120.00	100.00
5.356	5.356 (0.997)	71	28295			0.02- 60.02	30.02
5.356	5.356 (0.997)	72	30022			1.86- 61.86	31.86
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	132027	200.000	190.09	80.00- 120.00	100.00
5.440	5.440 (1.013)	85	86918			35.83- 95.83	65.83
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	146253	200.000	187.22	80.00- 120.00	100.00
5.594	5.594 (1.042)	99	93122			33.67- 93.67	63.67
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	94773	200.000	187.41	80.00- 120.00	100.00
5.580	5.580 (1.039)	56	129486			106.63- 166.63	136.63
5.580	5.580 (1.039)	41	77020			51.27- 111.27	81.27
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	154548	200.000	190.84	80.00- 120.00	100.00
5.734	5.734 (1.068)	117	159079			72.93- 132.93	102.93
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.115)	57	402383	200.000	189.38	80.00- 120.00	100.00
5.986	5.986 (1.115)	56	129188			2.11- 62.11	32.11
5.986	5.986 (1.115)	41	106115			0.00- 56.37	26.37
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	188647	200.000	184.30	80.00- 120.00	100.00
6.000	6.000 (0.925)	77	44353			0.00- 53.51	23.51
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.135)	73	197114	200.000	200.84	80.00- 120.00	100.00
6.098	6.098 (1.135)	87	49576			0.00- 55.15	25.15
6.098	6.098 (1.135)	55	57948			0.00- 59.40	29.40
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	106765	200.000	193.14	80.00- 120.00	100.00
6.112	6.112 (0.942)	64	33541			1.42- 61.42	31.42
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	72619	200.000	189.77	80.00- 120.00	100.00
6.210	6.210 (0.957)	43	151840			179.09- 239.09	209.09

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
91 Heptane (continued)							
6.224	6.224 (0.959)	100	29157			10.15- 70.15	40.15
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	88924	200.000	159.72	80.00- 120.00	100.00
6.742	6.742 (1.039)	130	103887			86.83- 146.83	116.83
6.742	6.742 (1.039)	97	57208			34.33- 94.33	64.33
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.867	6.867 (1.058)	83	126725	200.000	191.65	80.00- 120.00	100.00
6.867	6.867 (1.058)	98	65190			21.44- 81.44	51.44
6.867	6.867 (1.058)	55	119472			64.28- 124.28	94.28
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.007	7.007 (1.080)	63	78774	200.000	186.43	80.00- 120.00	100.00
7.007	7.007 (1.080)	62	57073			42.45- 102.45	72.45
7.007	7.007 (1.080)	41	54776			39.54- 99.54	69.54
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	47033	200.000	191.81	80.00- 120.00	100.00
7.119	7.119 (1.097)	58	37282			49.27- 109.27	79.27
7.119	7.119 (1.097)	57	12724			0.00- 57.05	27.05
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	141221	200.000	188.34	80.00- 120.00	100.00
7.273	7.273 (1.121)	85	90816			34.31- 94.31	64.31
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	105426	200.000	190.46	80.00- 120.00	100.00
7.665	7.665 (1.181)	77	33307			1.59- 61.59	31.59
7.665	7.665 (1.181)	39	68060			34.56- 94.56	64.56
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	27036	200.000	187.16	80.00- 120.00	100.00
7.791	7.791 (1.200)	43	203002			720.86- 780.86	750.86
7.791	7.791 (1.200)	58	75880			250.66- 310.66	280.66
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	251831	200.000	185.88	80.00- 120.00	100.00
7.903	7.903 (1.218)	92	148097			28.81- 88.81	58.81
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	109712	200.000	185.93	80.00- 120.00	100.00
8.127	8.127 (0.911)	77	35097			1.99- 61.99	31.99
8.127	8.127 (0.911)	39	66529			30.64- 90.64	60.64

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	81385	200.000	182.03	80.00- 120.00	100.00
8.267	8.267 (0.926)	99	51560			33.35- 93.35	63.35
8.267	8.267 (0.926)	83	68428			54.08- 114.08	84.08
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	119899	200.000	180.61	80.00- 120.00	100.00
8.295	8.295 (0.929)	129	95844			49.94- 109.94	79.94
8.295	8.295 (0.929)	131	93099			47.65- 107.65	77.65
122 2-Hexanone					CAS #: 591-78-6		
8.421	8.421 (0.944)	58	104486	200.000	193.31	80.00- 120.00	100.00
8.421	8.421 (0.944)	43	194906			156.54- 216.54	186.54
8.435	8.435 (0.945)	100	22542			0.00- 51.57	21.57
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.533 (0.956)	129	156807	200.000	184.63	80.00- 120.00	100.00
8.533	8.533 (0.956)	127	121332			47.38- 107.38	77.38
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.630	8.630 (0.967)	107	135363	200.000	188.71	80.00- 120.00	100.00
8.630	8.630 (0.967)	109	126918			63.76- 123.76	93.76
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	218336	200.000	185.64	80.00- 120.00	100.00
8.938	8.938 (1.002)	114	70029			2.07- 62.07	32.07
8.938	8.938 (1.002)	77	108585			19.73- 79.73	49.73
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	108640	200.000	186.54	80.00- 120.00	100.00
8.994	8.994 (1.008)	91	333491			276.97- 336.97	306.97
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	136370	200.000	184.14	80.00- 120.00	100.00
9.064	9.064 (1.016)	91	255621			157.45- 217.45	187.45
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	128230	200.000	180.95	80.00- 120.00	100.00
9.316	9.316 (1.044)	91	256222			169.81- 229.81	199.81
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	203344	200.000	183.87	80.00- 120.00	100.00
9.330	9.330 (1.045)	78	92128			15.31- 75.31	45.31
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	126955	200.000	179.13	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	65739			21.78- 81.78	51.78
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	392935	200.000	190.25	80.00- 120.00	100.00
9.526	9.526 (1.067)	120	108454			0.00- 57.60	27.60
9.526	9.526 (1.067)	51	45071			0.00- 41.47	11.47
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	165007	200.000	176.58	80.00- 120.00	100.00
9.736	9.736 (1.091)	85	107025			34.86- 94.86	64.86
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	429944	200.000	185.73	80.00- 120.00	100.00
9.764	9.764 (1.094)	120	107421			0.00- 54.98	24.98
9.764	9.764 (1.094)	105	16893			0.00- 33.93	3.93
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	396555	200.000	189.97	80.00- 120.00	100.00
9.820	9.820 (1.100)	120	121340			0.60- 60.60	30.60
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	344057	200.000	184.56	80.00- 120.00	100.00
9.848	9.848 (1.103)	120	171808			19.94- 79.94	49.94
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	299118	200.000	186.17	80.00- 120.00	100.00
10.058	10.058 (1.127)	120	145097			18.51- 78.51	48.51
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	192498	200.000	175.24	80.00- 120.00	100.00
10.240	10.240 (1.147)	148	124537			34.70- 94.70	64.70
10.226	10.226 (1.146)	111	77447			10.23- 70.23	40.23
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	204930	200.000	174.37	80.00- 120.00	100.00
10.282	10.282 (1.152)	148	130154			33.51- 93.51	63.51
10.282	10.282 (1.152)	111	77551			7.84- 67.84	37.84
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.351	10.351 (1.160)	91	235939	200.000	197.50	80.00- 120.00	100.00
10.351	10.351 (1.160)	126	54706			0.00- 53.19	23.19
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	177008	200.000	178.29	80.00- 120.00	100.00
10.477	10.477 (1.174)	148	112000			33.27- 93.27	63.27

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
165 1,2-Dichlorobenzene (continued)							
10.477	10.477 (1.174)	111	72840			11.15- 71.15	41.15
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	99515	200.000	235.82	80.00- 120.00	100.00
11.247	11.247 (1.260)	182	90912			61.36- 121.36	91.36
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	60223	200.000	221.53	80.00- 120.00	100.00
11.289	11.289 (1.265)	223	38167			33.38- 93.38	63.38
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	222442	200.000	213.50	80.00- 120.00	100.00
11.373	11.373 (1.274)	127	28006			0.00- 42.59	12.59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051108.d
Lab Smp Id: 1963-138
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 200ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	122520	0.00
93 1,4-Difluorobenze	464051	278431	649671	464051	0.00
126 Chlorobenzene-d5	453275	271965	634585	453275	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051108.d

Date : 11-MAY-2010 17:28

Client ID: Level-6

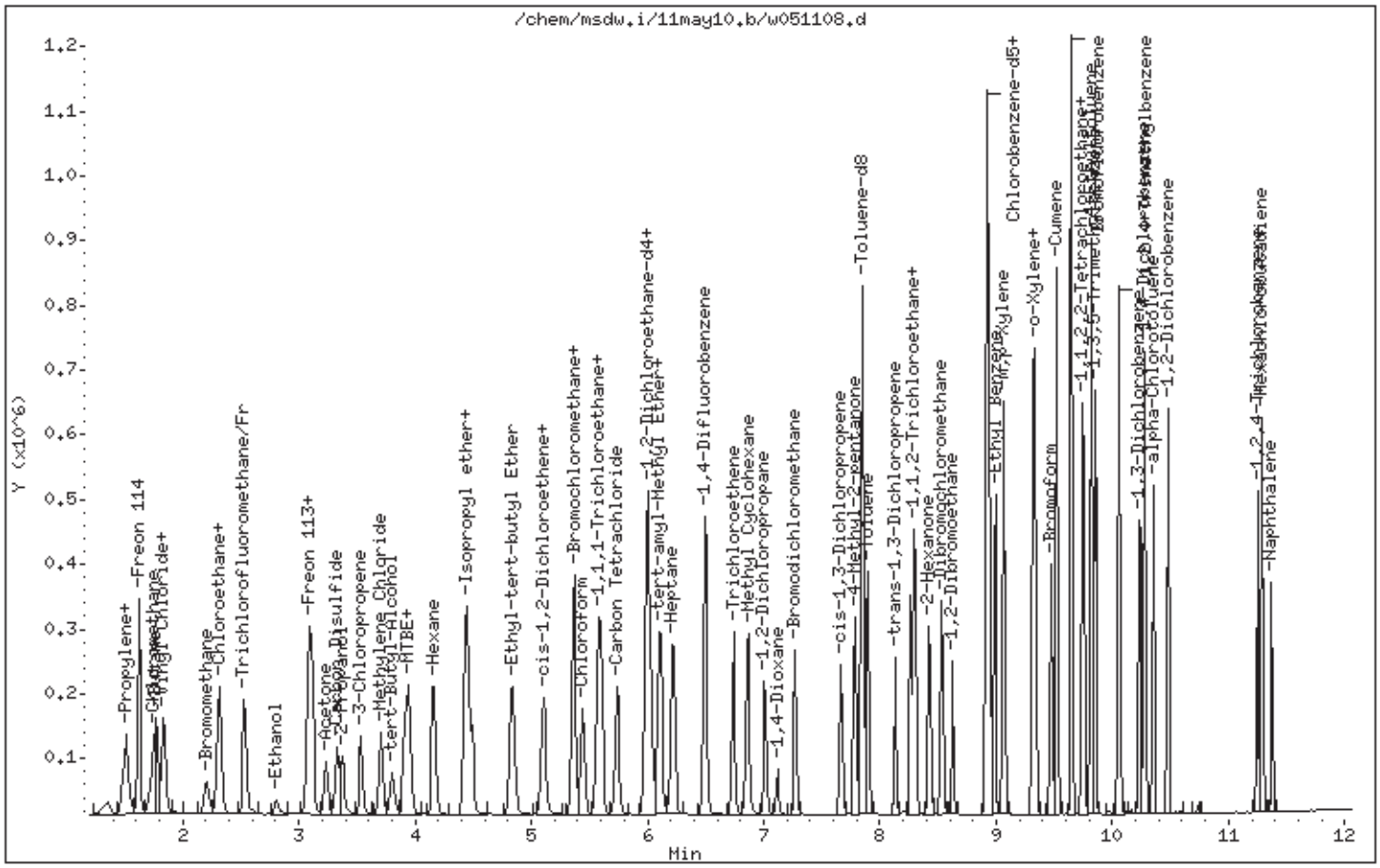
Instrument: msdw.i

Sample Info: 50ml #35997

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051109.d
Lab Smp Id: 1963-110 Client Smp ID: Level-7
Inj Date : 11-MAY-2010 17:57
Operator : gd Inst ID: msdw.i
Smp Info : 50ml #94916
Misc Info : 1000ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:07 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 17:57 Cal File: w051109.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: NaOxy.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
==	====== ========	====	========	=======	=======	==========	=====
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	121566	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	94663			0.00- 30.00	77.87
5.356	5.356 (1.000)	49	178450			117.03- 177.03	146.79
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	466487	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	61473			0.00- 30.00	13.18
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	441132	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	218031			0.00- 30.00	49.43
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	157613	400.000	385.81	70.00- 130.00	100.00
6.028	6.028 (1.122)	67	75396			0.00- 30.00	47.84
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	443405	400.000	393.49	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	47775			0.00- 30.00	10.77

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	305196			0.00- 30.00	68.83
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	240769	400.000	390.33	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	284350			86.64- 146.64	118.10
9.652	9.652 (1.082)	176	232721			66.47- 126.47	96.66
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.708)	59	464599	1000.00	900.36	70.00- 130.00	100.00
3.803	3.803 (0.708)	41	102789			0.00- 30.00	22.12
3.803	3.803 (0.708)	57	52463			0.00- 30.00	11.29
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.825)	45	1465843	1000.00	1020.4	70.00- 130.00	100.00
4.433	4.433 (0.825)	87	310463			0.00- 30.00	21.18
4.433	4.433 (0.825)	59	155398			0.00- 30.00	10.60
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.839	4.839 (0.901)	59	1264926	1000.00	1059.2	70.00- 130.00	100.00
4.839	4.839 (0.901)	87	466378			0.00- 30.00	36.87
4.825	4.825 (0.898)	41	234080			0.00- 30.00	18.51
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.135)	73	1019288	1000.00	1046.7	70.00- 130.00	100.00
6.098	6.098 (1.135)	87	259137			0.00- 30.00	25.42
6.098	6.098 (1.135)	55	294639			0.00- 30.00	28.91
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	845502	1000.00	833.86	70.00- 130.00	100.00
11.373	11.373 (1.274)	127	108644			0.00- 30.00	12.85

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051109.d
Lab Smp Id: 1963-110
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 1000ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	121566	-0.78
93 1,4-Difluorobenze	464051	278431	649671	466487	0.52
126 Chlorobenzene-d5	453275	271965	634585	441132	-2.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051109.d

Date : 11-MAY-2010 17:57

Client ID: Level-7

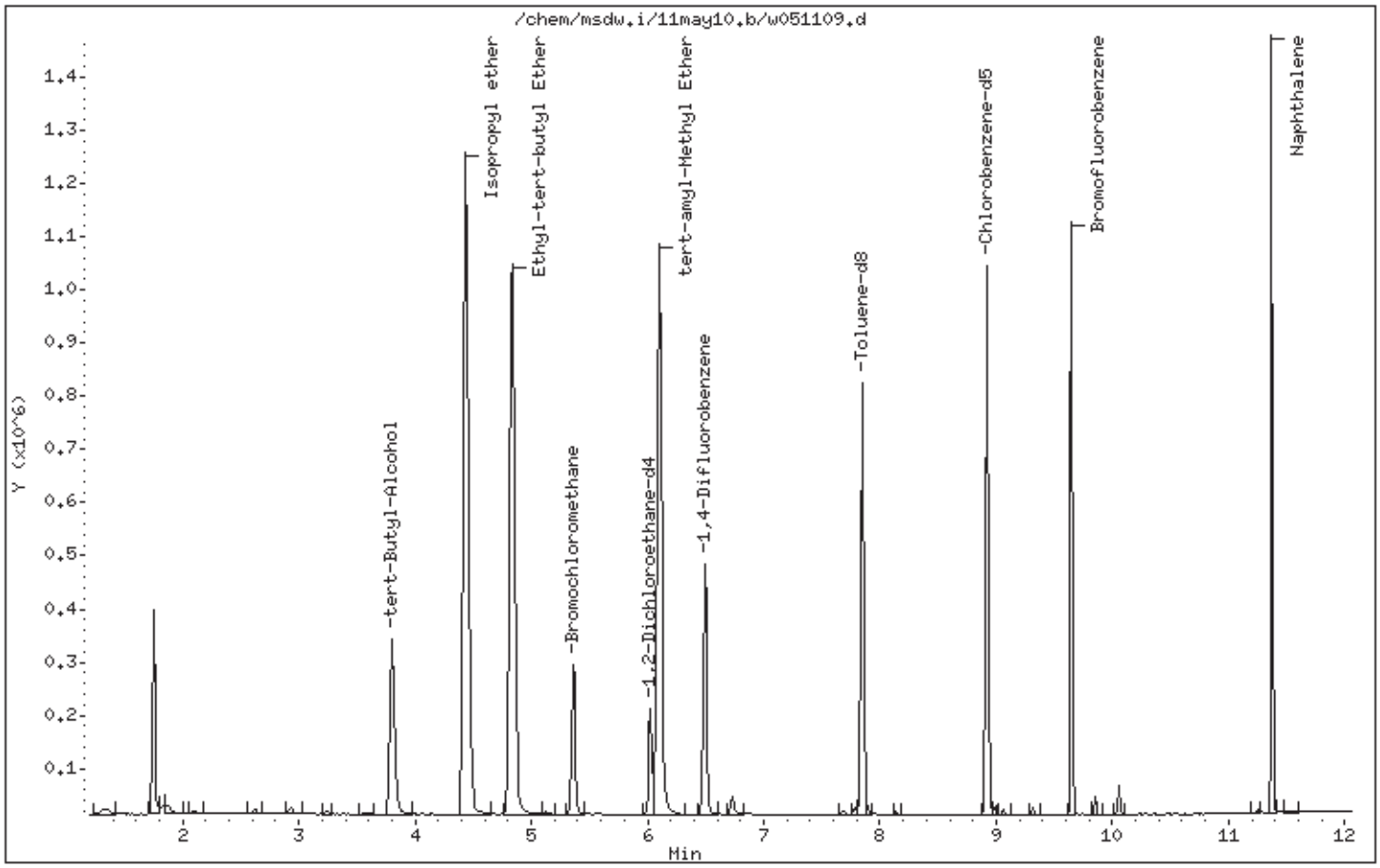
Instrument: msdw.i

Sample Info: 50ml #94916

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051110.d
Lab Smp Id: 1968-5 Client Smp ID: Level-8
Inj Date : 11-MAY-2010 18:17
Operator : gd Inst ID: msdw.i
Smp Info : 12.5ml #13861
Misc Info : 1250ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:08 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 18:17 Cal File: w051110.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09High.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 73 Bromochloromethane					CAS #: 74-97-5		
5.356	5.356 (1.000)	130	126316	400.000		70.00- 130.00	100.00
5.356	5.356 (1.000)	128	97871			0.00- 30.00	77.48
5.356	5.356 (1.000)	49	181024			117.03- 177.03	143.31
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	473515	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	62480			0.00- 30.00	13.19
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	468301	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	230566			0.00- 30.00	49.23
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.125)	65	169356	400.000	398.96	70.00- 130.00	100.00
6.028	6.028 (1.125)	67	105578			0.00- 30.00	62.34
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	458388	400.000	400.75	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	48752			0.00- 30.00	10.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	318486			0.00- 30.00	69.48
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	256153	400.000	391.18	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	306570			86.64- 146.64	119.68
9.652	9.652 (1.082)	176	250299			66.47- 126.47	97.71
5 Propylene					CAS #: 115-07-1		
1.467	1.467 (0.274)	41	370146	1250.00	1369.8	70.00- 130.00	100.00
1.467	1.467 (0.274)	42	239883			0.00- 30.00	64.81
1.467	1.467 (0.274)	39	270925			0.00- 30.00	73.19
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.282)	85	1154247	1250.00	1364.4	70.00- 130.00	100.00
1.509	1.509 (0.282)	87	372107			0.00- 30.00	32.24
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.303)	135	929302	1250.00	1366.3	70.00- 130.00	100.00
1.621	1.621 (0.303)	137	296663			0.00- 30.00	31.92
10 Chloromethane					CAS #: 74-87-3		
1.704	1.704 (0.318)	50	468636	1250.00	1221.5	70.00- 130.00	100.00
1.704	1.704 (0.318)	52	152781			0.00- 30.00	32.60
11 Butane					CAS #: 106-97-8		
1.774	1.774 (0.331)	58	133575	1250.00	1355.0	70.00- 130.00	100.00
1.774	1.774 (0.331)	43	892700			0.00- 30.00	668.31
12 Vinyl Chloride					CAS #: 75-01-4		
1.802	1.802 (0.336)	62	568446	1250.00	1488.6	70.00- 130.00	100.00
1.816	1.816 (0.339)	64	175667			0.00- 30.00	30.90
13 1,3-Butadiene					CAS #: 106-99-0		
1.830	1.830 (0.342)	54	500220	1250.00	1536.3	70.00- 130.00	100.00
1.830	1.830 (0.342)	39	486390			0.00- 30.00	97.24
15 Bromomethane					CAS #: 74-83-9		
2.180	2.180 (0.407)	94	412241	1250.00	1506.1	70.00- 130.00	100.00
2.180	2.180 (0.407)	96	385129			0.00- 30.00	93.42
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.428)	64	276071	1250.00	1388.4	70.00- 130.00	100.00
2.292	2.292 (0.428)	49	88094			0.00- 30.00	31.91
2.292	2.292 (0.428)	66	84229			0.00- 30.00	30.51

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.433)	43	676198	1250.00	1389.4	70.00- 130.00	100.00
2.320	2.320 (0.433)	57	459214			0.00- 30.00	67.91
2.320	2.320 (0.433)	72	50190			0.00- 30.00	7.42
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.472)	101	1357215	1250.00	1388.5	70.00- 130.00	100.00
2.530	2.530 (0.472)	103	880413			0.00- 30.00	64.87
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.525)	45	210591	1250.00	1325.2	70.00- 130.00	100.00
2.810	2.810 (0.525)	43	45120			0.00- 30.00	21.43
2.810	2.810 (0.525)	46	90692			0.00- 30.00	43.07
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.577)	151	853923	1250.00	1390.8	70.00- 130.00	100.00
3.090	3.090 (0.577)	153	548833			0.00- 30.00	64.27
3.090	3.090 (0.577)	101	1053029			94.24- 154.24	123.32
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.104 (0.579)	61	893510	1250.00	1380.0	70.00- 130.00	100.00
3.104	3.104 (0.579)	96	473872			0.00- 30.00	53.03
3.104	3.104 (0.579)	98	300273			3.44- 63.44	33.61
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.603)	58	254794	1250.00	1383.7	70.00- 130.00	100.00
3.230	3.230 (0.603)	43	895188			0.00- 30.00	351.34
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.621)	76	1134702	1250.00	1353.8	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.369	3.369 (0.629)	45	1030250	1250.00	1417.6	70.00- 130.00	100.00
3.369	3.369 (0.629)	43	215628			0.00- 30.00	20.93
3.369	3.369 (0.629)	59	37726			0.00- 30.00	3.66
38 3-Chloropropene					CAS #: 107-05-1		
3.537	3.537 (0.660)	76	213371	1250.00	1421.4	70.00- 130.00	100.00
3.523	3.523 (0.658)	41	712311			0.00- 30.00	333.84
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.692)	49	675260	1250.00	1337.5	70.00- 130.00	100.00
3.705	3.705 (0.692)	84	397368			0.00- 30.00	58.85
3.705	3.705 (0.692)	51	206497			0.00- 30.00	30.58
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.731)	73	1289727	1250.00	1454.3	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
48 MTBE (continued)							
3.915	3.915 (0.731)	57	357128			0.00- 30.00	27.69
3.915	3.915 (0.731)	41	332033			0.00- 30.00	25.74
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.736)	96	499902	1250.00	1373.4	70.00- 130.00	100.00
3.943	3.943 (0.736)	61	779162			0.00- 30.00	155.86
3.943	3.943 (0.736)	98	320050			0.00- 30.00	64.02
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.778)	57	965844	1250.00	1357.5	70.00- 130.00	100.00
4.153	4.153 (0.775)	43	631389			0.00- 30.00	65.37
4.167	4.167 (0.778)	86	158992			0.00- 30.00	16.46
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.830)	63	990787	1250.00	1387.4	70.00- 130.00	100.00
4.447	4.447 (0.830)	65	300549			0.00- 30.00	30.33
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.838)	86	139100	1250.00	1506.5	70.00- 130.00	100.00
4.489	4.489 (0.838)	43	1600565			0.00- 30.00	1150.66
4.489	4.489 (0.838)	42	144573			0.00- 30.00	103.93
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.090	5.090 (0.950)	61	752788	1250.00	1391.3	70.00- 130.00	100.00
5.090	5.090 (0.950)	96	516117			0.00- 30.00	68.56
5.090	5.090 (0.950)	98	330061			12.87- 72.87	43.85
70 2-Butanone					CAS #: 78-93-3		
5.118	5.118 (0.956)	72	247322	1250.00	1458.6	70.00- 130.00	100.00
5.118	5.118 (0.956)	43	1246186			0.00- 30.00	503.87
5.118	5.118 (0.956)	57	96651			0.00- 30.00	39.08
72 Tetrahydrofuran					CAS #: 109-99-9		
5.342	5.342 (0.997)	42	715650	1250.00	1415.6	70.00- 130.00	100.00
5.356	5.356 (1.000)	71	218264			0.00- 30.00	30.50
5.356	5.356 (1.000)	72	233325			0.00- 30.00	32.60
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.016)	83	1020261	1250.00	1424.8	70.00- 130.00	100.00
5.440	5.440 (1.016)	85	662627			0.00- 30.00	64.95
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.044)	97	1142668	1250.00	1418.8	70.00- 130.00	100.00
5.594	5.594 (1.044)	99	734393			0.00- 30.00	64.27

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.042)	84	735851	1250.00	1411.4	70.00- 130.00	100.00
5.580	5.580 (1.042)	56	978059			0.00- 30.00	132.92
5.580	5.580 (1.042)	41	563983			51.27- 111.27	76.64
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.071)	119	1225358	1250.00	1467.6	70.00- 130.00	100.00
5.734	5.734 (1.071)	117	1269058			0.00- 30.00	103.57
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.118)	57	3051466	1250.00	1393.0	70.00- 130.00	100.00
5.986	5.986 (1.118)	56	1017965			0.00- 30.00	33.36
5.986	5.986 (1.118)	41	833952			0.00- 30.00	27.33
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	1464493	1250.00	1402.1	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	347705			0.00- 30.00	23.74
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	796709	1250.00	1412.5	70.00- 130.00	100.00
6.112	6.112 (0.942)	64	252364			0.00- 30.00	31.68
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	553666	1250.00	1417.9	70.00- 130.00	100.00
6.224	6.224 (0.959)	43	1130724			0.00- 30.00	204.22
6.224	6.224 (0.959)	100	225705			0.00- 30.00	40.77
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	683468	1250.00	1203.0	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	811804			0.00- 30.00	118.78
6.742	6.742 (1.039)	97	446259			34.33- 94.33	65.29
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.867	6.867 (1.058)	83	969693	1250.00	1437.2	70.00- 130.00	100.00
6.867	6.867 (1.058)	98	510905			0.00- 30.00	52.69
6.867	6.867 (1.058)	55	907475			0.00- 30.00	93.58
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.007	7.007 (1.080)	63	617079	1250.00	1431.2	70.00- 130.00	100.00
7.007	7.007 (1.080)	62	442041			0.00- 30.00	71.63
7.007	7.007 (1.080)	41	406790			39.54- 99.54	65.92
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	356746	1250.00	1425.8	70.00- 130.00	100.00
7.119	7.119 (1.097)	58	287385			0.00- 30.00	80.56
7.119	7.119 (1.097)	57	98254			0.00- 30.00	27.54

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	1134194	1250.00	1482.4	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	728085			0.00- 30.00	64.19
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	852963	1250.00	1510.1	70.00- 130.00	100.00
7.665	7.665 (1.181)	77	270857			0.00- 30.00	31.75
7.665	7.665 (1.181)	39	537618			34.56- 94.56	63.03
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	220678	1250.00	1497.1	70.00- 130.00	100.00
7.791	7.791 (1.200)	43	1548220			0.00- 30.00	701.57
7.791	7.791 (1.200)	58	589253			0.00- 30.00	267.02
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	1963119	1250.00	1420.0	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	1175142			0.00- 30.00	59.86
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	920821	1250.00	1510.4	70.00- 130.00	100.00
8.127	8.127 (0.911)	77	292572			0.00- 30.00	31.77
8.127	8.127 (0.911)	39	532474			30.64- 90.64	57.83
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	664381	1250.00	1438.3	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	407196			0.00- 30.00	61.29
8.267	8.267 (0.926)	83	554358			54.08- 114.08	83.44
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	982565	1250.00	1432.6	70.00- 130.00	100.00
8.295	8.295 (0.929)	129	777629			0.00- 30.00	79.14
8.295	8.295 (0.929)	131	751654			47.65- 107.65	76.50
122 2-Hexanone					CAS #: 591-78-6		
8.421	8.421 (0.944)	58	803921	1250.00	1439.6	70.00- 130.00	100.00
8.421	8.421 (0.944)	43	1524080			0.00- 30.00	189.58
8.435	8.435 (0.945)	100	175344			0.00- 30.00	21.81
124 Dibromochloromethane					CAS #: 124-48-1		
8.532	8.532 (0.956)	129	1352695	1250.00	1541.6	70.00- 130.00	100.00
8.532	8.532 (0.956)	127	1054500			0.00- 30.00	77.96
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.630	8.630 (0.967)	107	1080904	1250.00	1458.6	70.00- 130.00	100.00
8.630	8.630 (0.967)	109	1020590			0.00- 30.00	94.42

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	1740231	1250.00	1432.2	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	563132			0.00- 30.00	32.36
8.938	8.938 (1.002)	77	849174			19.73- 79.73	48.80
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	869117	1250.00	1444.4	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	2642119			0.00- 30.00	304.00
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	1108970	1250.00	1449.4	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	2112382			0.00- 30.00	190.48
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	1059537	1250.00	1447.2	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	2122296			0.00- 30.00	200.30
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	1683701	1250.00	1473.6	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	759672			0.00- 30.00	45.12
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	1183031	1250.00	1615.6	70.00- 130.00	100.00
9.470	9.470 (1.061)	171	613329			0.00- 30.00	51.84
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	3215655	1250.00	1507.0	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	909022			0.00- 30.00	28.27
9.526	9.526 (1.067)	51	355039			0.00- 30.00	11.04
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	1359459	1250.00	1408.2	70.00- 130.00	100.00
9.736	9.736 (1.091)	85	889649			0.00- 30.00	65.44
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	3450879	1250.00	1442.9	70.00- 130.00	100.00
9.764	9.764 (1.094)	120	887789			0.00- 30.00	25.73
9.764	9.764 (1.094)	105	141289			0.00- 30.00	4.09
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	3265396	1250.00	1514.1	70.00- 130.00	100.00
9.820	9.820 (1.100)	120	1025963			0.00- 30.00	31.42
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	2565383	1250.00	1332.0	70.00- 130.00	100.00
9.848	9.848 (1.103)	120	1298468			0.00- 30.00	50.61

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
153 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
10.058	10.058 (1.127)	105	2312521	1250.00	1393.1	70.00- 130.00		100.00
10.058	10.058 (1.127)	120	1133156			0.00- 30.00		49.00
157 1,3-Dichlorobenzene						CAS #: 541-73-1		
10.239	10.239 (1.147)	146	1496363	1250.00	1318.5	70.00- 130.00		100.00
10.239	10.239 (1.147)	148	952720			0.00- 30.00		63.67
10.225	10.225 (1.146)	111	606955			0.00- 30.00		40.56
158 1,4-Dichlorobenzene						CAS #: 106-46-7		
10.281	10.281 (1.152)	146	1615434	1250.00	1330.4	70.00- 130.00		100.00
10.281	10.281 (1.152)	148	1032171			0.00- 30.00		63.89
10.281	10.281 (1.152)	111	613688			0.00- 30.00		37.99
162 alpha-Chlorotoluene						CAS #: 100-44-7		
10.351	10.351 (1.160)	91	1751782	1250.00	1419.4	70.00- 130.00		100.00
10.351	10.351 (1.160)	126	418357			0.00- 30.00		23.88
165 1,2-Dichlorobenzene						CAS #: 95-50-1		
10.477	10.477 (1.174)	146	1288563	1250.00	1256.2	70.00- 130.00		100.00
10.477	10.477 (1.174)	148	822688			0.00- 30.00		63.85
10.477	10.477 (1.174)	111	532385			11.15- 71.15		41.32
169 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
11.247	11.247 (1.260)	180	273796	1250.00	628.00	70.00- 130.00		100.00
11.247	11.247 (1.260)	182	246459			0.00- 30.00		90.02
170 Hexachlorobutadiene						CAS #: 87-68-3		
11.289	11.289 (1.265)	225	204254	1250.00	727.23	70.00- 130.00		100.00
11.289	11.289 (1.265)	223	129439			0.00- 30.00		63.37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051110.d
Lab Smp Id: 1968-5
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 1250ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-8
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	126316	3.10
93 1,4-Difluorobenze	464051	278431	649671	473515	2.04
126 Chlorobenzene-d5	453275	271965	634585	468301	3.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.36	-0.26
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051110.d

Date : 11-MAY-2010 18:17

Client ID: Level-8

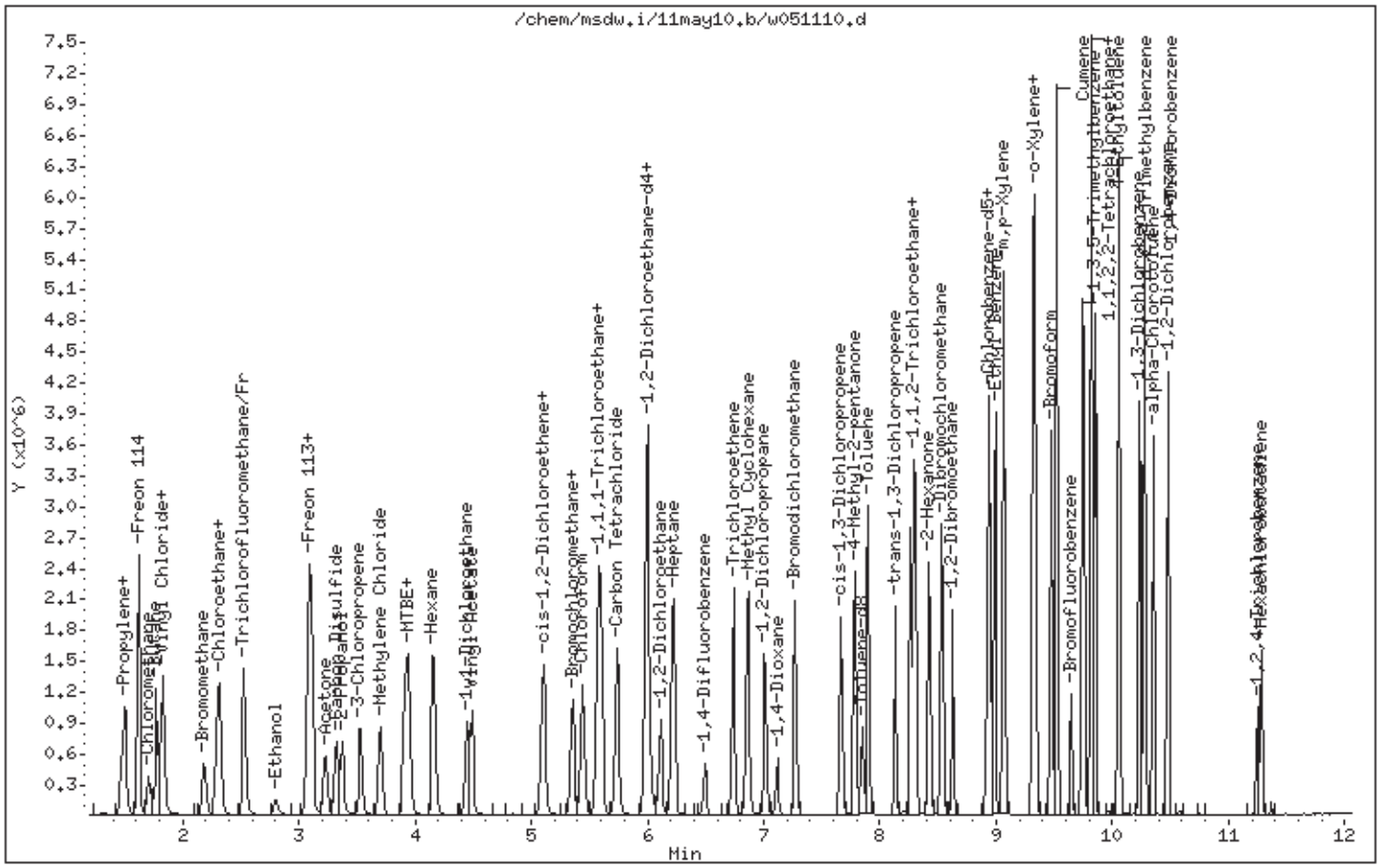
Instrument: msdw.i

Sample Info: 12.5ml #13861

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051111.d
Lab Smp Id: 1968-5 Client Smp ID: Level-9
Inj Date : 11-MAY-2010 18:36
Operator : gd Inst ID: msdw.i
Smp Info : 25ml #13861
Misc Info : 2500ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:08 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 18:36 Cal File: w051111.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09High.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
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	128971	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	100308			0.00- 30.00	77.78
5.356	5.356 (1.000)	49	188541			117.03- 177.03	146.19
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	476777	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	64344			0.00- 30.00	13.50
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	477395	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	239704			0.00- 30.00	50.21
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	184292	400.000	425.21	70.00- 130.00	100.00
6.028	6.028 (1.122)	67	131636			0.00- 30.00	71.43
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	471302	400.000	409.22	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	49632			0.00- 30.00	10.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	329903			0.00- 30.00	70.00
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	268896	400.000	402.82	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	312941			86.64- 146.64	116.38
9.652	9.652 (1.082)	176	256663			66.47- 126.47	95.45
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	711196	2500.00	2577.7	70.00- 130.00	100.00
1.481	1.481 (0.276)	42	464288			0.00- 30.00	65.28
1.481	1.481 (0.276)	39	522217			0.00- 30.00	73.43
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.281)	85	2247902	2500.00	2602.6	70.00- 130.00	100.00
1.509	1.509 (0.281)	87	727629			0.00- 30.00	32.37
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.302)	135	1861277	2500.00	2680.3	70.00- 130.00	100.00
1.621	1.621 (0.302)	137	597227			0.00- 30.00	32.09
10 Chloromethane					CAS #: 74-87-3		
1.705	1.705 (0.317)	50	905432	2500.00	2311.5	70.00- 130.00	100.00
1.705	1.705 (0.317)	52	295035			0.00- 30.00	32.58
11 Butane					CAS #: 106-97-8		
1.775	1.775 (0.330)	58	257556	2500.00	2558.8	70.00- 130.00	100.00
1.775	1.775 (0.330)	43	1696938			0.00- 30.00	658.86
12 Vinyl Chloride					CAS #: 75-01-4		
1.817	1.817 (0.338)	62	1048772	2500.00	2690.0	70.00- 130.00	100.00
1.817	1.817 (0.338)	64	325801			0.00- 30.00	31.06
13 1,3-Butadiene					CAS #: 106-99-0		
1.831	1.831 (0.341)	54	861515	2500.00	2591.5	70.00- 130.00	100.00
1.831	1.831 (0.341)	39	851421			0.00- 30.00	98.83
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.409)	94	785091	2500.00	2809.3	70.00- 130.00	100.00
2.194	2.194 (0.409)	96	736204			0.00- 30.00	93.77
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.427)	64	535867	2500.00	2639.5	70.00- 130.00	100.00
2.292	2.292 (0.427)	49	164978			0.00- 30.00	30.79
2.292	2.292 (0.427)	66	163782			0.00- 30.00	30.56

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	1283308	2500.00	2582.5	70.00- 130.00	100.00
2.320	2.320 (0.432)	57	879711			0.00- 30.00	68.55
2.320	2.320 (0.432)	72	96340			0.00- 30.00	7.51
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	2655103	2500.00	2660.4	70.00- 130.00	100.00
2.530	2.530 (0.471)	103	1725059			0.00- 30.00	64.97
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	416882	2500.00	2569.4	70.00- 130.00	100.00
2.810	2.810 (0.523)	43	88123			0.00- 30.00	21.14
2.810	2.810 (0.523)	46	177711			0.00- 30.00	42.63
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	1681131	2500.00	2681.8	70.00- 130.00	100.00
3.090	3.090 (0.575)	153	1078494			0.00- 30.00	64.15
3.090	3.090 (0.575)	101	2056740			94.24- 154.24	122.34
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.118	3.118 (0.581)	61	1727394	2500.00	2613.1	70.00- 130.00	100.00
3.118	3.118 (0.581)	96	912210			0.00- 30.00	52.81
3.118	3.118 (0.581)	98	591232			3.44- 63.44	34.23
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	493792	2500.00	2626.5	70.00- 130.00	100.00
3.230	3.230 (0.601)	43	1710856			0.00- 30.00	346.47
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	2193984	2500.00	2563.8	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.370 (0.627)	45	1993237	2500.00	2686.3	70.00- 130.00	100.00(A)
3.370	3.370 (0.627)	43	407009			0.00- 30.00	20.42
3.370	3.370 (0.627)	59	74021			0.00- 30.00	3.71
38 3-Chloropropene					CAS #: 107-05-1		
3.538	3.538 (0.659)	76	414418	2500.00	2704.0	70.00- 130.00	100.00
3.538	3.538 (0.659)	41	1359710			0.00- 30.00	328.10
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	1285850	2500.00	2494.5	70.00- 130.00	100.00
3.705	3.705 (0.690)	84	767066			0.00- 30.00	59.65
3.705	3.705 (0.690)	51	394011			0.00- 30.00	30.64
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	2440631	2500.00	2695.3	70.00- 130.00	100.00(A)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
48 MTBE (continued)							
3.915	3.915 (0.729)	57	663722			0.00- 30.00	27.19
3.915	3.915 (0.729)	41	613350			0.00- 30.00	25.13
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	972070	2500.00	2615.7	70.00- 130.00	100.00
3.943	3.943 (0.734)	61	1505359			0.00- 30.00	154.86
3.943	3.943 (0.734)	98	621627			0.00- 30.00	63.95
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.776)	57	1865806	2500.00	2568.5	70.00- 130.00	100.00
4.167	4.167 (0.776)	43	1202162			0.00- 30.00	64.43
4.167	4.167 (0.776)	86	306631			0.00- 30.00	16.43
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	1922078	2500.00	2636.0	70.00- 130.00	100.00
4.447	4.447 (0.828)	65	581679			0.00- 30.00	30.26
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	274361	2500.00	2910.2	70.00- 130.00	100.00
4.489	4.489 (0.836)	43	3083383			0.00- 30.00	1123.84
4.489	4.489 (0.836)	42	276535			0.00- 30.00	100.79
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.091 (0.948)	61	1462651	2500.00	2647.6	70.00- 130.00	100.00
5.091	5.091 (0.948)	96	1004642			0.00- 30.00	68.69
5.091	5.091 (0.948)	98	643687			12.87- 72.87	44.01
70 2-Butanone					CAS #: 78-93-3		
5.119	5.119 (0.953)	72	485038	2500.00	2801.7	70.00- 130.00	100.00
5.119	5.119 (0.953)	43	2408464			0.00- 30.00	496.55
5.119	5.119 (0.953)	57	189535			0.00- 30.00	39.08
72 Tetrahydrofuran					CAS #: 109-99-9		
5.342	5.342 (0.995)	42	1376807	2500.00	2667.3	70.00- 130.00	100.00
5.356	5.356 (0.997)	71	424413			0.00- 30.00	30.83
5.356	5.356 (0.997)	72	454546			0.00- 30.00	33.01
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	1962956	2500.00	2684.8	70.00- 130.00	100.00
5.440	5.440 (1.013)	85	1285209			0.00- 30.00	65.47
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	2246729	2500.00	2732.3	70.00- 130.00	100.00
5.594	5.594 (1.042)	99	1438196			0.00- 30.00	64.01

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	1431666	2500.00	2689.5	70.00- 130.00	100.00
5.580	5.580 (1.039)	56	1898600			0.00- 30.00	132.61
5.580	5.580 (1.039)	41	1081987			51.27- 111.27	75.58
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	2391539	2500.00	2805.4	70.00- 130.00	100.00
5.734	5.734 (1.068)	117	2476535			0.00- 30.00	103.55
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.000	6.000 (1.117)	57	5915686	2500.00	2644.9	70.00- 130.00	100.00
6.000	6.000 (1.117)	56	1984442			0.00- 30.00	33.55
5.986	5.986 (1.115)	41	1609381			0.00- 30.00	27.21
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	2902110	2500.00	2759.6	70.00- 130.00	100.00
6.000	6.000 (0.925)	77	686259			0.00- 30.00	23.65
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	1533662	2500.00	2700.4	70.00- 130.00	100.00
6.112	6.112 (0.942)	64	485070			0.00- 30.00	31.63
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	1081280	2500.00	2750.2	70.00- 130.00	100.00
6.224	6.224 (0.959)	43	2181549			0.00- 30.00	201.76
6.224	6.224 (0.959)	100	441813			0.00- 30.00	40.86
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	1343097	2500.00	2348.0	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	1584585			0.00- 30.00	117.98
6.742	6.742 (1.039)	97	874905			34.33- 94.33	65.14
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.868	6.868 (1.058)	83	1890950	2500.00	2783.4	70.00- 130.00	100.00
6.868	6.868 (1.058)	98	995889			0.00- 30.00	52.67
6.868	6.868 (1.058)	55	1749121			0.00- 30.00	92.50
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.008	7.008 (1.080)	63	1190190	2500.00	2741.6	70.00- 130.00	100.00
7.008	7.008 (1.080)	62	852696			0.00- 30.00	71.64
7.008	7.008 (1.080)	41	782835			39.54- 99.54	65.77
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	696216	2500.00	2763.5	70.00- 130.00	100.00(A)
7.119	7.119 (1.097)	58	555195			0.00- 30.00	79.74
7.119	7.119 (1.097)	57	188223			0.00- 30.00	27.04

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	2244445	2500.00	2913.4	70.00- 130.00	100.00
7.273	7.273 (1.121)	85	1447867			0.00- 30.00	64.51
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	1682819	2500.00	2959.0	70.00- 130.00	100.00
7.665	7.665 (1.181)	77	537727			0.00- 30.00	31.95
7.665	7.665 (1.181)	39	1046309			34.56- 94.56	62.18
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	436552	2500.00	2941.4	70.00- 130.00	100.00
7.791	7.791 (1.200)	43	3028280			0.00- 30.00	693.68
7.791	7.791 (1.200)	58	1166297			0.00- 30.00	267.16
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	3880478	2500.00	2787.8	70.00- 130.00	100.00
7.903	7.903 (1.218)	92	2336485			0.00- 30.00	60.21
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	1832396	2500.00	2948.5	70.00- 130.00	100.00
8.127	8.127 (0.911)	77	579019			0.00- 30.00	31.60
8.127	8.127 (0.911)	39	1043740			30.64- 90.64	56.96
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	1313897	2500.00	2790.2	70.00- 130.00	100.00
8.267	8.267 (0.926)	99	813472			0.00- 30.00	61.91
8.267	8.267 (0.926)	83	1096056			54.08- 114.08	83.42
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	1989414	2500.00	2845.3	70.00- 130.00	100.00
8.309	8.309 (0.931)	129	1588284			0.00- 30.00	79.84
8.309	8.309 (0.931)	131	1546084			47.65- 107.65	77.72
122 2-Hexanone					CAS #: 591-78-6		
8.421	8.421 (0.944)	58	1613225	2500.00	2833.8	70.00- 130.00	100.00
8.421	8.421 (0.944)	43	3009213			0.00- 30.00	186.53
8.435	8.435 (0.945)	100	357824			0.00- 30.00	22.18
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.533 (0.956)	129	2740949	2500.00	3064.2	70.00- 130.00	100.00
8.533	8.533 (0.956)	127	2131100			0.00- 30.00	77.75
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.631	8.631 (0.967)	107	2174043	2500.00	2877.8	70.00- 130.00	100.00
8.631	8.631 (0.967)	109	2047213			0.00- 30.00	94.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	3420434	2500.00	2761.4	70.00- 130.00	100.00
8.938	8.938 (1.002)	114	1113981			0.00- 30.00	32.57
8.938	8.938 (1.002)	77	1692341			19.73- 79.73	49.48
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	1745789	2500.00	2846.1	70.00- 130.00	100.00
8.994	8.994 (1.008)	91	5238107			0.00- 30.00	300.04
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	2244771	2500.00	2878.0	70.00- 130.00	100.00
9.064	9.064 (1.016)	91	4228881			0.00- 30.00	188.39
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	2228439	2500.00	2985.7	70.00- 130.00	100.00
9.316	9.316 (1.044)	91	4439401			0.00- 30.00	199.22
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	3527374	2500.00	3028.4	70.00- 130.00	100.00
9.330	9.330 (1.045)	78	1614468			0.00- 30.00	45.77
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	2503604	2500.00	3354.0	70.00- 130.00	100.00(A)
9.470	9.470 (1.061)	171	1312400			0.00- 30.00	52.42
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	6427057	2500.00	2954.6	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	1895300			0.00- 30.00	29.49
9.526	9.526 (1.067)	51	709263			0.00- 30.00	11.04
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	2849112	2500.00	2895.0	70.00- 130.00	100.00(A)
9.736	9.736 (1.091)	85	1858416			0.00- 30.00	65.23
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	6967616	2500.00	2857.9	70.00- 130.00	100.00(A)
9.764	9.764 (1.094)	120	1857538			0.00- 30.00	26.66
9.764	9.764 (1.094)	105	292230			0.00- 30.00	4.19
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	6605729	2500.00	3004.6	70.00- 130.00	100.00(A)
9.820	9.820 (1.100)	120	2174544			0.00- 30.00	32.92
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	5370642	2500.00	2735.4	70.00- 130.00	100.00(A)
9.862	9.862 (1.105)	120	2744312			0.00- 30.00	51.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	5008454	2500.00	2959.8	70.00- 130.00	100.00(A)
10.058	10.058 (1.127)	120	2505598			0.00- 30.00	50.03
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	3244838	2500.00	2804.7	70.00- 130.00	100.00(A)
10.240	10.240 (1.147)	148	2076905			0.00- 30.00	64.01
10.226	10.226 (1.146)	111	1327448			0.00- 30.00	40.91
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	3576963	2500.00	2889.8	70.00- 130.00	100.00(A)
10.282	10.282 (1.152)	148	2297535			0.00- 30.00	64.23
10.282	10.282 (1.152)	111	1387562			0.00- 30.00	38.79
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.352	10.352 (1.160)	91	3875978	2500.00	3080.6	70.00- 130.00	100.00(A)
10.352	10.352 (1.160)	126	945067			0.00- 30.00	24.38
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	2991712	2500.00	2861.1	70.00- 130.00	100.00(A)
10.477	10.477 (1.174)	148	1915851			0.00- 30.00	64.04
10.477	10.477 (1.174)	111	1246431			11.15- 71.15	41.66
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	779373	2500.00	1753.6	70.00- 130.00	100.00
11.247	11.247 (1.260)	182	706676			0.00- 30.00	90.67
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	561354	2500.00	1960.6	70.00- 130.00	100.00
11.289	11.289 (1.265)	223	354813			0.00- 30.00	63.21

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051111.d
Lab Smp Id: 1968-5
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 2500ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-9
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	128971	5.27
93 1,4-Difluorobenze	464051	278431	649671	476777	2.74
126 Chlorobenzene-d5	453275	271965	634585	477395	5.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051111.d

Date : 11-MAY-2010 18:36

Client ID: Level-9

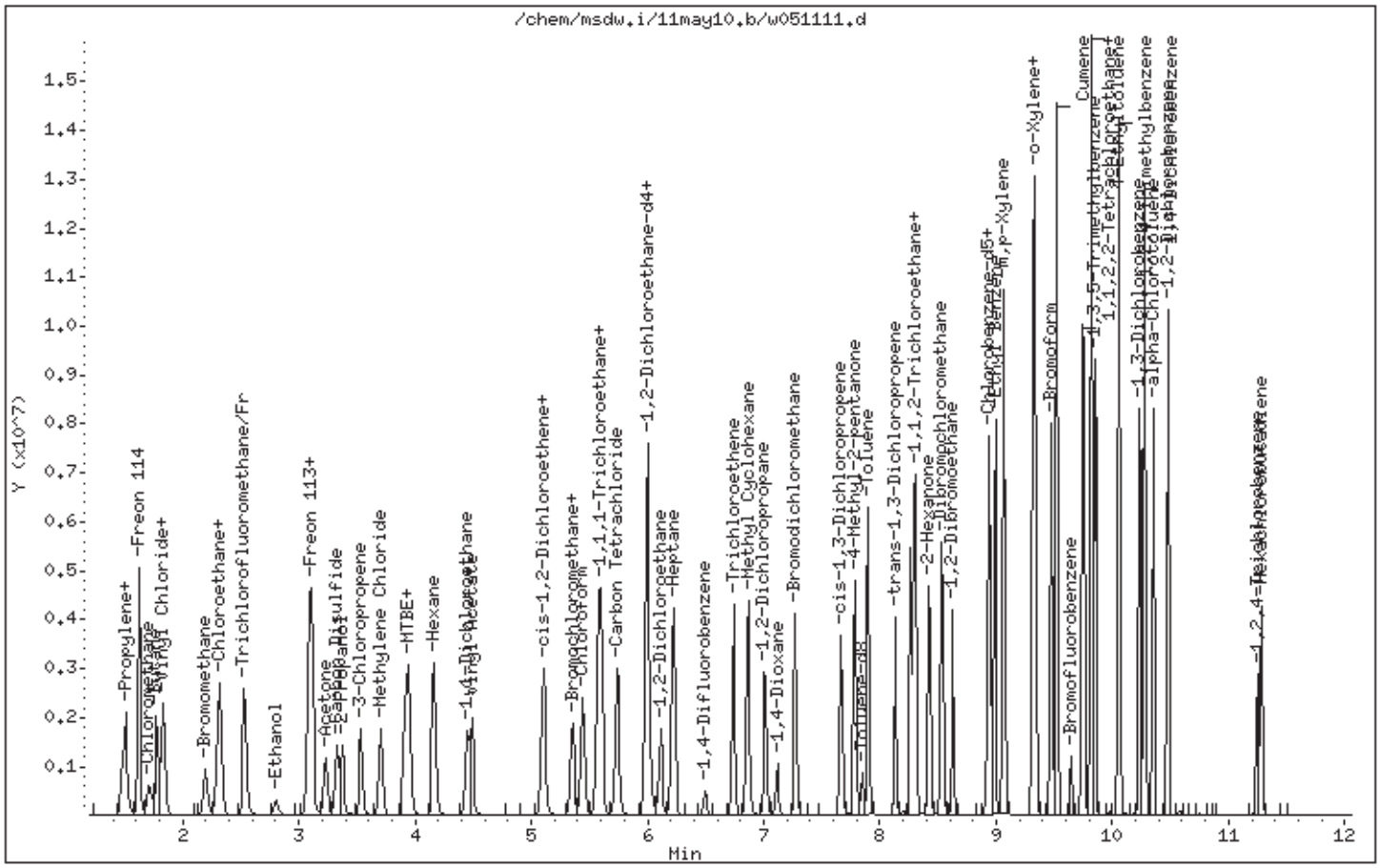
Instrument: msdw.i

Sample Info: 25ml #13861

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/11may10.b/w051112.d
Lab Smp Id: 1968-5 Client Smp ID: Level-10
Inj Date : 11-MAY-2010 19:44
Operator : gd Inst ID: msdw.i
Smp Info : 50ml #13861
Misc Info : 5000ppbv
Comment :
Method : /chem/msdw.i/11may10.b/w1050511a.m
Meth Date : 12-May-2010 03:08 wwong Quant Type: ISTD
Cal Date : 11-MAY-2010 19:44 Cal File: w051112.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09High.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
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	133989	400.000		70.00- 130.00	100.00
5.370	5.370 (1.000)	128	104913			0.00- 30.00	78.30
5.356	5.356 (1.000)	49	196011			117.03- 177.03	146.29
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	482948	400.000		70.00- 130.00	100.00
6.490	6.490 (1.000)	88	63798			0.00- 30.00	13.21
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	495210	400.000		70.00- 130.00	100.00
8.924	8.924 (1.000)	82	244554			0.00- 30.00	49.38
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	209287	400.000	464.80	70.00- 130.00	100.00
6.014	6.014 (1.120)	67	179315			0.00- 30.00	85.68
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	475151	400.000	407.29	70.00- 130.00	100.00
7.847	7.847 (1.209)	70	49709			0.00- 30.00	10.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	341633			0.00- 30.00	71.90
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	270350	400.000	390.43	70.00- 130.00	100.00
9.652	9.652 (1.082)	95	318222			86.64- 146.64	117.71
9.652	9.652 (1.082)	176	259559			66.47- 126.47	96.01
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	1329446	5000.00	4638.1	70.00- 130.00	100.00
1.481	1.481 (0.276)	42	868597			0.00- 30.00	65.34
1.481	1.481 (0.276)	39	980800			0.00- 30.00	73.78
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.281)	85	4233878	5000.00	4718.3	70.00- 130.00	100.00
1.509	1.509 (0.281)	87	1373880			0.00- 30.00	32.45
9 Freon 114					CAS #: 76-14-2		
1.621	1.621 (0.302)	135	3573953	5000.00	4953.8	70.00- 130.00	100.00
1.621	1.621 (0.302)	137	1158677			0.00- 30.00	32.42
10 Chloromethane					CAS #: 74-87-3		
1.705	1.705 (0.317)	50	1666766	5000.00	4095.8	70.00- 130.00	100.00
1.705	1.705 (0.317)	52	537161			0.00- 30.00	32.23
11 Butane					CAS #: 106-97-8		
1.774	1.774 (0.330)	58	509743	5000.00	4874.6	70.00- 130.00	100.00
1.774	1.774 (0.330)	43	3307835			0.00- 30.00	648.92
12 Vinyl Chloride					CAS #: 75-01-4		
1.816	1.816 (0.338)	62	2098596	5000.00	5181.1	70.00- 130.00	100.00(A)
1.816	1.816 (0.338)	64	647410			0.00- 30.00	30.85
13 1,3-Butadiene					CAS #: 106-99-0		
1.830	1.830 (0.341)	54	1852023	5000.00	5362.4	70.00- 130.00	100.00(A)
1.830	1.830 (0.341)	39	1809507			0.00- 30.00	97.70
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.409)	94	1472302	5000.00	5071.0	70.00- 130.00	100.00(A)
2.194	2.194 (0.409)	96	1382246			0.00- 30.00	93.88
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.427)	64	1005783	5000.00	4768.6	70.00- 130.00	100.00
2.292	2.292 (0.427)	49	308592			0.00- 30.00	30.68
2.292	2.292 (0.427)	66	311015			0.00- 30.00	30.92

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	2390420	5000.00	4630.2	70.00- 130.00	100.00
2.320	2.320 (0.432)	57	1655148			0.00- 30.00	69.24
2.320	2.320 (0.432)	72	184375			0.00- 30.00	7.71
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	4996530	5000.00	4819.0	70.00- 130.00	100.00
2.530	2.530 (0.471)	103	3245605			0.00- 30.00	64.96
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	781524	5000.00	4636.4	70.00- 130.00	100.00
2.810	2.810 (0.523)	43	166507			0.00- 30.00	21.31
2.810	2.810 (0.523)	46	336403			0.00- 30.00	43.04
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	3255607	5000.00	4998.9	70.00- 130.00	100.00
3.090	3.090 (0.575)	153	2093144			0.00- 30.00	64.29
3.090	3.090 (0.575)	101	3976358			94.24- 154.24	122.14
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.104 (0.578)	61	3284822	5000.00	4782.9	70.00- 130.00	100.00
3.104	3.104 (0.578)	96	1777607			0.00- 30.00	54.12
3.104	3.104 (0.578)	98	1142743			3.44- 63.44	34.79
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	915815	5000.00	4688.8	70.00- 130.00	100.00
3.230	3.230 (0.601)	43	3174948			0.00- 30.00	346.68
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	4072514	5000.00	4580.7	70.00- 130.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.370 (0.627)	45	3716055	5000.00	4820.6	70.00- 130.00	100.00(A)
3.370	3.370 (0.627)	43	750686			0.00- 30.00	20.20
3.370	3.370 (0.627)	59	137861			0.00- 30.00	3.71
38 3-Chloropropene					CAS #: 107-05-1		
3.537	3.537 (0.659)	76	776809	5000.00	4878.7	70.00- 130.00	100.00
3.537	3.537 (0.659)	41	2540272			0.00- 30.00	327.01
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	2383740	5000.00	4451.2	70.00- 130.00	100.00
3.705	3.705 (0.690)	84	1436559			0.00- 30.00	60.26
3.705	3.705 (0.690)	51	730236			0.00- 30.00	30.63
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	4619188	5000.00	4910.2	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
48 MTBE (continued)							
3.915	3.915 (0.729)	57	1270781			0.00- 30.00	27.51
3.915	3.915 (0.729)	41	1150512			0.00- 30.00	24.91
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	1854944	5000.00	4804.4	70.00- 130.00	100.00
3.943	3.943 (0.734)	61	2862249			0.00- 30.00	154.30
3.943	3.943 (0.734)	98	1189675			0.00- 30.00	64.14
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.776)	57	3501504	5000.00	4639.7	70.00- 130.00	100.00
4.167	4.167 (0.776)	43	2246610			0.00- 30.00	64.16
4.167	4.167 (0.776)	86	593230			0.00- 30.00	16.94
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	3602687	5000.00	4755.8	70.00- 130.00	100.00
4.447	4.447 (0.828)	65	1094007			0.00- 30.00	30.37
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	526886	5000.00	5379.5	70.00- 130.00	100.00(A)
4.489	4.489 (0.836)	43	5776263			0.00- 30.00	1096.30
4.489	4.489 (0.836)	42	517953			0.00- 30.00	98.30
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.091 (0.948)	61	2771857	5000.00	4829.5	70.00- 130.00	100.00
5.091	5.091 (0.948)	96	1919773			0.00- 30.00	69.26
5.091	5.091 (0.948)	98	1231232			12.87- 72.87	44.42
70 2-Butanone					CAS #: 78-93-3		
5.119	5.119 (0.953)	72	930342	5000.00	5172.6	70.00- 130.00	100.00(A)
5.119	5.119 (0.953)	43	4506167			0.00- 30.00	484.36
5.119	5.119 (0.953)	57	359337			0.00- 30.00	38.62
72 Tetrahydrofuran					CAS #: 109-99-9		
5.342	5.342 (0.995)	42	2567834	5000.00	4788.3	70.00- 130.00	100.00
5.356	5.356 (0.997)	71	797826			0.00- 30.00	31.07
5.356	5.356 (0.997)	72	857024			0.00- 30.00	33.38
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	3723237	5000.00	4901.8	70.00- 130.00	100.00
5.440	5.440 (1.013)	85	2413079			0.00- 30.00	64.81
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	4337975	5000.00	5077.9	70.00- 130.00	100.00(A)
5.594	5.594 (1.042)	99	2771965			0.00- 30.00	63.90

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	2759909	5000.00	4990.5	70.00- 130.00	100.00
5.580	5.580 (1.039)	56	3594758			0.00- 30.00	130.25
5.580	5.580 (1.039)	41	2043629			51.27- 111.27	74.05
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	4536226	5000.00	5121.9	70.00- 130.00	100.00(A)
5.734	5.734 (1.068)	117	4711721			0.00- 30.00	103.87
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.000	6.000 (1.117)	57	11203023	5000.00	4821.3	70.00- 130.00	100.00
5.986	5.986 (1.115)	56	3803419			0.00- 30.00	33.95
5.986	5.986 (1.115)	41	3050231			0.00- 30.00	27.23
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	5693066	5000.00	5344.2	70.00- 130.00	100.00(A)
6.000	6.000 (0.925)	77	1348810			0.00- 30.00	23.69
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	2877903	5000.00	5002.6	70.00- 130.00	100.00(A)
6.112	6.112 (0.942)	64	910392			0.00- 30.00	31.63
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	2088563	5000.00	5244.3	70.00- 130.00	100.00(A)
6.224	6.224 (0.959)	43	4108252			0.00- 30.00	196.70
6.224	6.224 (0.959)	100	854584			0.00- 30.00	40.92
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	2580609	5000.00	4453.7	70.00- 130.00	100.00
6.742	6.742 (1.039)	130	3035016			0.00- 30.00	117.61
6.742	6.742 (1.039)	97	1682404			34.33- 94.33	65.19
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.867	6.867 (1.058)	83	3601477	5000.00	5233.4	70.00- 130.00	100.00(A)
6.867	6.867 (1.058)	98	1915776			0.00- 30.00	53.19
6.867	6.867 (1.058)	55	3307696			0.00- 30.00	91.84
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.007	7.007 (1.080)	63	2255047	5000.00	5128.2	70.00- 130.00	100.00(A)
7.007	7.007 (1.080)	62	1623837			0.00- 30.00	72.01
7.007	7.007 (1.080)	41	1479011			39.54- 99.54	65.59
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	1338785	5000.00	5246.1	70.00- 130.00	100.00(A)
7.119	7.119 (1.097)	58	1053055			0.00- 30.00	78.66
7.119	7.119 (1.097)	57	357896			0.00- 30.00	26.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
104 Bromodichloromethane						CAS #: 75-27-4	
7.273	7.273 (1.121)	83	4303087	5000.00	5514.2	70.00- 130.00	100.00(A)
7.273	7.273 (1.121)	85	2770774			0.00- 30.00	64.39
106 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.665	7.665 (1.181)	75	3219495	5000.00	5588.6	70.00- 130.00	100.00(A)
7.665	7.665 (1.181)	77	1032476			0.00- 30.00	32.07
7.665	7.665 (1.181)	39	1992528			34.56- 94.56	61.89
107 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.791	7.791 (1.200)	85	869993	5000.00	5786.8	70.00- 130.00	100.00(A)
7.791	7.791 (1.200)	43	5694117			0.00- 30.00	654.50
7.791	7.791 (1.200)	58	2246290			0.00- 30.00	258.20
114 Toluene						CAS #: 108-88-3	
7.903	7.903 (1.218)	91	7428364	5000.00	5268.4	70.00- 130.00	100.00(A)
7.903	7.903 (1.218)	92	4543778			0.00- 30.00	61.17
117 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
8.127	8.127 (0.911)	75	3549212	5000.00	5505.5	70.00- 130.00	100.00(A)
8.127	8.127 (0.911)	77	1131440			0.00- 30.00	31.88
8.127	8.127 (0.911)	39	2011798			30.64- 90.64	56.68
118 1,1,2-Trichloroethane						CAS #: 79-00-5	
8.267	8.267 (0.926)	97	2626018	5000.00	5376.1	70.00- 130.00	100.00(A)
8.267	8.267 (0.926)	99	1635531			0.00- 30.00	62.28
8.267	8.267 (0.926)	83	2175039			54.08- 114.08	82.83
119 Tetrachloroethene						CAS #: 127-18-4	
8.309	8.309 (0.931)	166	4088040	5000.00	5636.4	70.00- 130.00	100.00(A)
8.309	8.309 (0.931)	129	3263337			0.00- 30.00	79.83
8.309	8.309 (0.931)	131	3180605			47.65- 107.65	77.80
122 2-Hexanone						CAS #: 591-78-6	
8.435	8.435 (0.945)	58	3140631	5000.00	5318.4	70.00- 130.00	100.00(A)
8.435	8.435 (0.945)	43	5700076			0.00- 30.00	181.49
8.435	8.435 (0.945)	100	719683			0.00- 30.00	22.92
124 Dibromochloromethane						CAS #: 124-48-1	
8.547	8.547 (0.958)	129	5471574	5000.00	5896.8	70.00- 130.00	100.00(A)
8.547	8.547 (0.958)	127	4303225			0.00- 30.00	78.65
125 1,2-Dibromoethane						CAS #: 106-93-4	
8.630	8.630 (0.967)	107	4319493	5000.00	5512.0	70.00- 130.00	100.00(A)
8.630	8.630 (0.967)	109	4059003			0.00- 30.00	93.97

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	6634171	5000.00	5163.2	70.00- 130.00	100.00(A)
8.938	8.938 (1.002)	114	2203931			0.00- 30.00	33.22
8.938	8.938 (1.002)	77	3338657			19.73- 79.73	50.33
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	3576832	5000.00	5621.4	70.00- 130.00	100.00(A)
8.994	8.994 (1.008)	91	9995156			0.00- 30.00	279.44
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	4494813	5000.00	5555.4	70.00- 130.00	100.00(A)
9.064	9.064 (1.016)	91	8183845			0.00- 30.00	182.07
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	4564745	5000.00	5896.0	70.00- 130.00	100.00(A)
9.316	9.316 (1.044)	91	8797106			0.00- 30.00	192.72
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	7004635	5000.00	5797.4	70.00- 130.00	100.00(A)
9.330	9.330 (1.045)	78	3255585			0.00- 30.00	46.48
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	5203296	5000.00	6720.0	70.00- 130.00	100.00(A)
9.470	9.470 (1.061)	171	2795154			0.00- 30.00	53.72
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	9846729	5000.00	4363.8	70.00- 130.00	100.00
9.526	9.526 (1.067)	120	3877330			0.00- 30.00	39.38
9.526	9.526 (1.067)	51	1403211			0.00- 30.00	14.25
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	6000015	5000.00	5877.3	70.00- 130.00	100.00(A)
9.736	9.736 (1.091)	85	3959249			0.00- 30.00	65.99
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	12514221	5000.00	4948.2	70.00- 130.00	100.00(A)
9.764	9.764 (1.094)	120	3990874			0.00- 30.00	31.89
9.764	9.764 (1.094)	105	637099			0.00- 30.00	5.09
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	9651651	5000.00	4232.1	70.00- 130.00	100.00(A)
9.820	9.820 (1.100)	120	4411202			0.00- 30.00	45.70
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.862	9.862 (1.105)	105	11574376	5000.00	5683.0	70.00- 130.00	100.00(A)
9.862	9.862 (1.105)	120	6043017			0.00- 30.00	52.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	8920946	5000.00	5082.2	70.00- 130.00	100.00(A)
10.058	10.058 (1.127)	120	5201970			0.00- 30.00	58.31
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.240 (1.147)	146	7168156	5000.00	5973.0	70.00- 130.00	100.00(A)
10.240	10.240 (1.147)	148	4681403			0.00- 30.00	65.31
10.240	10.240 (1.147)	111	2939830			0.00- 30.00	41.01
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.282 (1.152)	146	7570322	5000.00	5896.0	70.00- 130.00	100.00(A)
10.282	10.282 (1.152)	148	5045408			0.00- 30.00	66.65
10.282	10.282 (1.152)	111	3172208			0.00- 30.00	41.90
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.351	10.351 (1.160)	91	7993928	5000.00	6125.0	70.00- 130.00	100.00(A)
10.351	10.351 (1.160)	126	2073953			0.00- 30.00	25.94
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	6576076	5000.00	6062.8	70.00- 130.00	100.00(A)
10.477	10.477 (1.174)	148	4349049			0.00- 30.00	66.13
10.477	10.477 (1.174)	111	2895246			11.15- 71.15	44.03
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	2360535	5000.00	5120.1	70.00- 130.00	100.00(A)
11.247	11.247 (1.260)	182	2132858			0.00- 30.00	90.35
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	1829485	5000.00	6159.8	70.00- 130.00	100.00(A)
11.289	11.289 (1.265)	223	1164629			0.00- 30.00	63.66

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w051112.d
Lab Smp Id: 1968-5
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdw.i/11may10.b/w1050511a.m
Misc Info: 5000ppbv

Calibration Date: 11-MAY-2010
Calibration Time: 17:28
Client Smp ID: Level-10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	122520	73512	171528	133989	9.36
93 1,4-Difluorobenze	464051	278431	649671	482948	4.07
126 Chlorobenzene-d5	453275	271965	634585	495210	9.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/11may10.b/w051112.d

Date : 11-MAY-2010 19:44

Client ID: Level-10

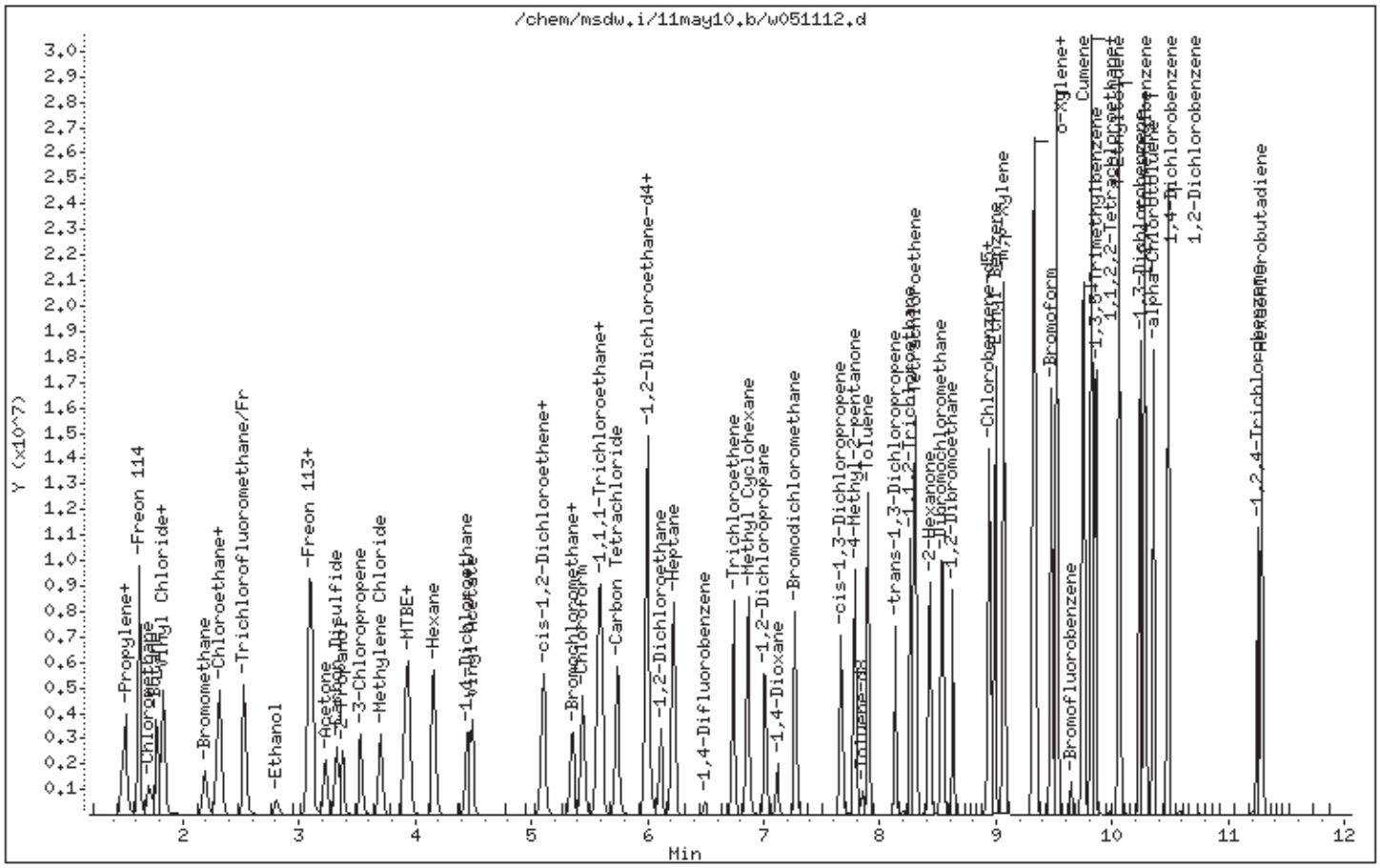
Instrument: msdw.i

Sample Info: 50ml #13861

Operator: gd

Column phase: RTx-624

Column diameter: 0.53



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005522A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/10 11:57 PM**	

Compound	%Recovery
Freon 12	102
Freon 114	98
Chloromethane	104
Vinyl Chloride	114
1,3-Butadiene	116
Bromomethane	107
Chloroethane	100
Freon 11	101
Ethanol	121
Freon 113	99
1,1-Dichloroethene	105
Acetone	106
2-Propanol	101
Carbon Disulfide	107
3-Chloropropene	104
Methylene Chloride	95
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	103
Hexane	102
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	101
Tetrahydrofuran	104
Chloroform	100
1,1,1-Trichloroethane	102
Cyclohexane	100
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	102
Benzene	103
1,2-Dichloroethane	104
Heptane	103
Trichloroethene	101
1,2-Dichloropropane	102
1,4-Dioxane	104
Bromodichloromethane	104
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	105
Toluene	103
trans-1,3-Dichloropropene	103

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005522A-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/26/10 11:57 PM**	

Compound	%Recovery
1,1,2-Trichloroethane	101
Tetrachloroethene	97
2-Hexanone	102
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	102
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	101
Styrene	108
Bromoform	104
Cumene	102
1,1,2,2-Tetrachloroethane	99
Propylbenzene	101
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	74
TPH ref. to Gasoline (MW=100)	72

Container Type: NA - Not Applicable

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

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdb.i Injection Date: 26-MAY-2010 23:57
Lab File ID: b052602.d Init. Cal. Date(s): 04-MAY-2010 13-MAY-2010
Analysis Type: AIR Init. Cal. Times: 10:38 11:52
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdb.i/26may10.b/b1050504c.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 86 1,2-Dichloroethane-d4	1.03867	1.03546	0.010	-0.30849	30.00000	Averaged
$ 110 Toluene-d8	0.96309	0.97579	0.010	1.31811	30.00000	Averaged
$ 139 Bromofluorobenzene	0.61670	0.62345	0.010	1.09447	30.00000	Averaged
5 Propylene	0.80158	0.83264	0.010	3.87424	30.00000	Averaged
7 Dichlorodifluoromethane/Fr1	3.07516	3.12381	0.010	1.58202	30.00000	Averaged
9 Freon 114	2.70624	2.66578	0.010	-1.49518	30.00000	Averaged
12 Chloromethane	1.09944	1.14807	0.010	4.42277	30.00000	Averaged
13 Butane	0.27977	0.31223	0.010	11.60275	30.00000	Averaged
15 Vinyl Chloride	1.17738	1.33990	0.010	13.80344	30.00000	Averaged
16 1,3-Butadiene	0.86441	1.00380	0.010	16.12535	30.00000	Averaged
18 Bromomethane	1.06759	1.13830	0.010	6.62334	30.00000	Averaged
19 Chloroethane	0.63972	0.63799	0.010	-0.26981	30.00000	Averaged
20 Isopentane	1.36710	1.41331	0.010	3.38033	30.00000	Averaged
23 Trichlorofluoromethane/Fr11	3.75563	3.79556	0.010	1.06338	30.00000	Averaged
30 Ethanol	0.38844	0.46945	0.010	20.85660	30.00000	Averaged
34 Freon 113	2.57213	2.55837	0.010	-0.53521	30.00000	Averaged
36 1,1-Dichloroethene	1.86637	1.96029	0.010	5.03248	30.00000	Averaged
38 Acetone	0.55301	0.58598	0.010	5.96300	30.00000	Averaged
39 Carbon Disulfide	3.30758	3.52955	0.010	6.71085	30.00000	Averaged
41 2-Propanol	1.62687	1.64533	0.010	1.13465	30.00000	Averaged
42 3-Chloropropene	0.49502	0.51279	0.010	3.58886	30.00000	Averaged
48 Methylene Chloride	1.49293	1.42076	0.010	-4.83431	30.00000	Averaged
49 tert-Butyl-Alcohol	1.71890	1.63983	0.010	-4.59977	30.00000	Averaged
50 MTBE	2.95367	2.97816	0.010	0.82910	30.00000	Averaged
52 trans-1,2-Dichloroethene	1.44340	1.49272	0.010	3.41723	30.00000	Averaged
55 Hexane	1.94963	1.99557	0.010	2.35626	30.00000	Averaged
58 Isopropyl ether	4.24275	4.06962	0.010	-4.08055	30.00000	Averaged
59 1,1-Dichloroethane	2.19395	2.27273	0.010	3.59099	30.00000	Averaged
60 Vinyl Acetate	0.30705	0.34607	0.010	12.70954	30.00000	Averaged
64 Ethyl-tert-butyl Ether	3.48943	3.31582	0.010	-4.97534	30.00000	Averaged
68 cis-1,2-Dichloroethene	1.61553	1.63033	0.010	0.91627	30.00000	Averaged
70 2-Butanone	0.62082	0.67052	0.010	8.00552	30.00000	Averaged
74 Tetrahydrofuran	1.33621	1.39647	0.010	4.50912	30.00000	Averaged
76 Chloroform	2.68454	2.69738	0.010	0.47801	30.00000	Averaged
77 Cyclohexane	1.92085	1.92026	0.010	-0.03058	30.00000	Averaged
78 1,1,1-Trichloroethane	2.76998	2.82991	0.010	2.16367	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdb.i Injection Date: 26-MAY-2010 23:57
Lab File ID: b052602.d Init. Cal. Date(s): 04-MAY-2010 13-MAY-2010
Analysis Type: AIR Init. Cal. Times: 10:38 11:52
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdb.i/26may10.b/b1050504c.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
79 Carbon Tetrachloride	3.07960	3.20093	0.010	3.93993	30.00000	Averaged
82 2,2,4-Trimethylpentane	6.16293	6.26751	0.010	1.69697	30.00000	Averaged
83 Benzene	1.06108	1.09299	0.010	3.00783	30.00000	Averaged
88 tert-amyl-Methyl Ether	3.05397	2.89542	0.010	-5.19171	30.00000	Averaged
89 1,2-Dichloroethane	0.45385	0.46975	0.010	3.50488	30.00000	Averaged
93 Heptane	0.37806	0.39113	0.010	3.45644	30.00000	Averaged
95 Trichloroethene	0.50336	0.50767	0.010	0.85675	30.00000	Averaged
97 Methyl Cyclohexane	0.67912	0.69694	0.010	2.62438	30.00000	Averaged
99 1,2-Dichloropropane	0.36955	0.37865	0.010	2.46421	30.00000	Averaged
102 1,4-Dioxane	0.25601	0.26574	0.010	3.80090	30.00000	Averaged
104 Bromodichloromethane	0.71502	0.74525	0.010	4.22793	30.00000	Averaged
108 cis-1,3-Dichloropropene	0.50077	0.50917	0.010	1.67878	30.00000	Averaged
109 4-Methyl-2-pentanone	0.13305	0.13959	0.010	4.91706	30.00000	Averaged
111 Toluene	1.41066	1.45667	0.010	3.26148	30.00000	Averaged
114 trans-1,3-Dichloropropene	0.53203	0.54766	0.010	2.93754	30.00000	Averaged
115 1,1,2-Trichloroethane	0.51654	0.52292	0.010	1.23406	30.00000	Averaged
116 Tetrachloroethene	0.85087	0.82318	0.010	-3.25377	30.00000	Averaged
120 2-Hexanone	0.41333	0.42336	0.010	2.42520	30.00000	Averaged
121 Dibromochloromethane	0.91777	0.98092	0.010	6.88114	30.00000	Averaged
124 1,2-Dibromoethane	0.82428	0.84456	0.010	2.46042	30.00000	Averaged
127 Chlorobenzene	1.32130	1.32117	0.010	-0.00973	30.00000	Averaged
128 Ethyl Benzene	0.66504	0.67002	0.010	0.74809	30.00000	Averaged
131 m,p-Xylene	0.83130	0.84243	0.010	1.33835	30.00000	Averaged
132 o-Xylene	0.79438	0.79983	0.010	0.68620	30.00000	Averaged
134 Styrene	1.14392	1.23327	0.010	7.81072	30.00000	Averaged
136 Bromoform	0.87201	0.90794	0.010	4.12041	30.00000	Averaged
138 Cumene	2.32184	2.37129	0.010	2.12984	30.00000	Averaged
142 1,1,2,2-Tetrachloroethane	1.10090	1.09056	0.010	-0.93910	30.00000	Averaged
143 Propylbenzene	2.71056	2.73640	0.010	0.95334	30.00000	Averaged
147 4-Ethyltoluene	2.44042	2.46975	0.010	1.20182	30.00000	Averaged
149 1,3,5-Trimethylbenzene	2.01610	2.08954	0.010	3.64261	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.85944	1.79592	0.010	-3.41618	30.00000	Averaged
156 1,3-Dichlorobenzene	1.48770	1.42359	0.010	-4.30920	30.00000	Averaged
159 1,4-Dichlorobenzene	1.48906	1.45199	0.010	-2.48949	30.00000	Averaged
161 alpha-Chlorotoluene	1.00930	1.09481	0.010	8.47282	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdb.i Injection Date: 26-MAY-2010 23:57
Lab File ID: b052602.d Init. Cal. Date(s): 04-MAY-2010 13-MAY-2010
Analysis Type: AIR Init. Cal. Times: 10:38 11:52
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdb.i/26may10.b/b1050504c.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
163 1,2-Dichlorobenzene	1.37345	1.32089	0.010	-3.82705	30.00000	Averaged
169 1,2,4-Trichlorobenzene	0.79603	0.66317	0.010	-16.69023	30.00000	Averaged
170 Hexachlorobutadiene	0.73887	0.54433	0.010	-26.32946	30.00000	Averaged
171 Naphthalene	0.89631	0.98265	0.010	9.63210	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052602.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 26-MAY-2010 23:57
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #1936-136
Misc Info : 200ppbv>200ppbv
Comment :
Method : /var/chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 27-May-2010 02:30 edanek Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	213867	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	163928			46.65- 106.65	76.65
4.909	4.909 (1.000)	49	219585			72.67- 132.67	102.67
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	789670	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	111588			0.00- 44.13	14.13
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	751322	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	360413			0.00- 30.00	47.97
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	221451	400.000	398.77	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	122806			26.01- 86.01	55.46
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	770549	400.000	405.27	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	75858			0.00- 39.95	9.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	568781			44.59- 104.59	73.82
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.212	10.212 (1.098)	174	468414	400.000	404.38	80.00- 120.00	100.00
10.212	10.212 (1.098)	95	511846			79.27- 139.27	109.27
10.212	10.212 (1.098)	176	453341			66.78- 126.78	96.78
5 Propylene					CAS #: 115-07-1		
1.313	1.313 (0.267)	41	89037	200.000	207.75	80.00- 120.00	100.00
1.313	1.313 (0.267)	42	61370			35.59- 95.59	68.93
1.313	1.313 (0.267)	39	63001			41.94- 101.94	70.76
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.355	1.355 (0.276)	85	334040	200.000	203.16	80.00- 120.00	100.00
1.341	1.341 (0.273)	87	107348			2.96- 62.96	32.14
9 Freon 114					CAS #: 76-14-2		
1.439	1.439 (0.293)	135	285061	200.000	197.01	80.00- 120.00	100.00
1.439	1.439 (0.293)	137	91306			2.03- 62.03	32.03
12 Chloromethane					CAS #: 74-87-3		
1.509	1.509 (0.307)	50	122767	200.000	208.84	80.00- 120.00	100.00
1.509	1.509 (0.307)	52	39061			0.98- 60.98	31.82
13 Butane					CAS #: 106-97-8		
1.579	1.579 (0.322)	58	33388	200.000	223.20	80.00- 120.00	100.00
1.579	1.579 (0.322)	43	224696			679.89- 739.89	672.98
15 Vinyl Chloride					CAS #: 75-01-4		
1.607	1.607 (0.327)	62	143280	200.000	227.61	80.00- 120.00	100.00
1.607	1.607 (0.327)	64	45223			2.41- 62.41	31.56
16 1,3-Butadiene					CAS #: 106-99-0		
1.621	1.621 (0.330)	54	107340	200.000	232.25	80.00- 120.00	100.00
1.621	1.621 (0.330)	39	116436			74.77- 134.77	108.47
18 Bromomethane					CAS #: 74-83-9		
1.928	1.928 (0.393)	94	121722	200.000	213.25	80.00- 120.00	100.00
1.928	1.928 (0.393)	96	113917			63.59- 123.59	93.59
19 Chloroethane					CAS #: 75-00-3		
2.026	2.026 (0.413)	64	68223	200.000	199.46	80.00- 120.00	100.00
2.026	2.026 (0.413)	66	21625			0.56- 60.56	31.70
2.026	2.026 (0.413)	49	17023			0.00- 55.58	24.95

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
20 Isopentane					CAS #: 78-78-4		
2.040	2.040 (0.416)	43	151130	200.000	206.76	80.00- 120.00	100.00
2.040	2.040 (0.416)	57	106455			38.52- 98.52	70.44
2.040	2.040 (0.416)	72	14958			0.00- 39.10	9.90
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.236	2.236 (0.456)	101	405873	200.000	202.13	80.00- 120.00	100.00
2.236	2.236 (0.456)	103	261426			34.41- 94.41	64.41
30 Ethanol					CAS #: 64-17-5		
2.502	2.502 (0.510)	45	50200	200.000	241.71	80.00- 120.00	100.00
2.502	2.502 (0.510)	43	12261			0.00- 54.62	24.42
2.502	2.502 (0.510)	46	19829			13.07- 73.07	39.50
34 Freon 113					CAS #: 76-13-1		
2.740	2.740 (0.558)	151	273575	200.000	198.93	80.00- 120.00	100.00
2.740	2.740 (0.558)	153	174521			33.79- 93.79	63.79
2.726	2.726 (0.555)	101	322095			87.74- 147.74	117.74
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.754	2.754 (0.561)	61	209621	200.000	210.06	80.00- 120.00	100.00
2.754	2.754 (0.561)	96	146350			39.82- 99.82	69.82
2.754	2.754 (0.561)	98	94615			15.14- 75.14	45.14
38 Acetone					CAS #: 67-64-1		
2.894	2.894 (0.590)	58	62661	200.000	211.93	80.00- 120.00	100.00
2.894	2.894 (0.590)	43	189058			293.27- 353.27	301.72
39 Carbon Disulfide					CAS #: 75-15-0		
2.950	2.950 (0.601)	76	377427	200.000	213.42	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.034	3.034 (0.618)	45	175941	200.000	202.27	80.00- 120.00	100.00
3.034	3.034 (0.618)	43	46512			0.00- 54.42	26.44
3.034	3.034 (0.618)	59	7089			0.00- 33.98	4.03
42 3-Chloropropene					CAS #: 107-05-1		
3.160	3.160 (0.644)	76	54834	200.000	207.18	80.00- 120.00	100.00
3.160	3.160 (0.644)	41	137000			212.67- 272.67	249.84
48 Methylene Chloride					CAS #: 75-09-2		
3.314	3.314 (0.675)	49	151927	200.000	190.33	80.00- 120.00	100.00
3.314	3.314 (0.675)	84	123810			51.49- 111.49	81.49
3.314	3.314 (0.675)	51	45177			0.00- 59.35	29.74
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.426	3.426 (0.698)	59	175353	200.000	190.80	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
49 tert-Butyl-Alcohol (continued)							
3.426	3.426 (0.698)	41	72514			10.49- 70.49	41.35
3.426	3.426 (0.698)	57	19373			0.00- 41.04	11.05
50 MTBE					CAS #: 1634-04-4		
3.510	3.510 (0.715)	73	318465	200.000	201.66	80.00- 120.00	100.00
3.510	3.510 (0.715)	57	72929			0.00- 52.90	22.90
3.510	3.510 (0.715)	41	96069			0.00- 58.33	30.17
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.538	3.538 (0.721)	96	159622	200.000	206.83	80.00- 120.00	100.00
3.538	3.538 (0.721)	61	188754			88.25- 148.25	118.25
3.538	3.538 (0.721)	98	99735			34.26- 94.26	62.48
55 Hexane					CAS #: 110-54-3		
3.747	3.747 (0.763)	57	213393	200.000	204.71	80.00- 120.00	100.00
3.733	3.733 (0.761)	43	136219			32.76- 92.76	63.83
3.747	3.747 (0.763)	86	44277			0.00- 51.08	20.75
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	435179	200.000	191.84	80.00- 120.00	100.00
4.013	4.013 (0.818)	87	134407			1.02- 61.02	30.89
4.013	4.013 (0.818)	59	52413			0.00- 41.84	12.04
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.027	4.027 (0.820)	63	243031	200.000	207.18	80.00- 120.00	100.00
4.027	4.027 (0.820)	65	76439			1.45- 61.45	31.45
60 Vinyl Acetate					CAS #: 108-05-4		
4.083	4.083 (0.832)	86	37007	200.000	225.42	80.00- 120.00	100.00
4.083	4.083 (0.832)	43	370565			969.62-1029.62	1001.34
4.083	4.083 (0.832)	42	36010			65.34- 125.34	97.31
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	354572	200.000	190.05	80.00- 120.00	100.00
4.391	4.391 (0.895)	87	166751			17.31- 77.31	47.03
4.391	4.391 (0.895)	41	89149			0.00- 54.29	25.14
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	174337	200.000	201.83	80.00- 120.00	100.00
4.643	4.643 (0.946)	96	156194			59.59- 119.59	89.59
4.643	4.643 (0.946)	98	102937			29.04- 89.04	59.04
70 2-Butanone					CAS #: 78-93-3		
4.699	4.699 (0.957)	72	71701	200.000	216.01	80.00- 120.00	100.00
4.685	4.685 (0.954)	43	260021			332.65- 392.65	362.65

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.685	4.685 (0.954)	57	19989			0.00- 59.83	27.88
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	149329	200.000	209.02	80.00- 120.00	100.00
4.895	4.895 (0.997)	71	61622			11.27- 71.27	41.27
4.895	4.895 (0.997)	72	65772			12.35- 72.35	44.05
76 Chloroform					CAS #: 67-66-3		
4.993	4.993 (1.017)	83	288440	200.000	200.96	80.00- 120.00	100.00
4.993	4.993 (1.017)	85	192603			36.77- 96.77	66.77
77 Cyclohexane					CAS #: 110-82-7		
5.091	5.091 (1.037)	84	205340	200.000	199.94	80.00- 120.00	100.00
5.091	5.091 (1.037)	56	211072			72.79- 132.79	102.79
5.077	5.077 (1.034)	41	120816			28.84- 88.84	58.84
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.119	5.119 (1.043)	97	302612	200.000	204.33	80.00- 120.00	100.00
5.119	5.119 (1.043)	99	195486			34.60- 94.60	64.60
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.245	5.245 (1.068)	119	342287	200.000	207.88	80.00- 120.00	100.00
5.245	5.245 (1.068)	117	349720			72.17- 132.17	102.17
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.510	5.510 (1.123)	57	670207	200.000	203.39	80.00- 120.00	100.00
5.510	5.510 (1.123)	56	230974			3.91- 63.91	34.46
5.496	5.496 (1.120)	41	166303			0.00- 55.28	24.81
83 Benzene					CAS #: 71-43-2		
5.524	5.524 (0.919)	78	431551	200.000	206.02	80.00- 120.00	100.00
5.524	5.524 (0.919)	77	100196			0.00- 53.87	23.22
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.622	5.622 (1.145)	73	309617	200.000	189.62	80.00- 120.00	100.00
5.622	5.622 (1.145)	87	79636			0.00- 56.41	25.72
5.622	5.622 (1.145)	55	133694			11.20- 71.20	43.18
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	185475	200.000	207.01	80.00- 120.00	100.00
5.636	5.636 (0.937)	64	60282			2.69- 62.69	32.50
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	154431	200.000	206.91	80.00- 120.00	100.00
5.734	5.734 (0.953)	43	243721			126.09- 186.09	157.82

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	60793			9.69- 69.69	39.37
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	200447	200.000	201.71	80.00- 120.00	100.00
6.252	6.252 (1.040)	130	233902			86.69- 146.69	116.69
6.252	6.252 (1.040)	97	131790			35.75- 95.75	65.75
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	275178	200.000	205.25	80.00- 120.00	100.00
6.364	6.364 (1.058)	98	147835			23.52- 83.52	53.72
6.364	6.364 (1.058)	55	193288			39.66- 99.66	70.24
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.574	6.574 (1.093)	63	149505	200.000	204.93	80.00- 120.00	100.00
6.574	6.574 (1.093)	62	104572			39.95- 99.95	69.95
6.574	6.574 (1.093)	41	88110			28.93- 88.93	58.93
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	104924	200.000	207.60	80.00- 120.00	100.00
6.700	6.700 (1.114)	58	63585			30.60- 90.60	60.60
6.700	6.700 (1.114)	57	21480			0.00- 49.82	20.47
104 Bromodichloromethane					CAS #: 75-27-4		
6.910	6.910 (1.149)	83	294251	200.000	208.46	80.00- 120.00	100.00
6.910	6.910 (1.149)	85	191643			35.13- 95.13	65.13
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	201039	200.000	203.36	80.00- 120.00	100.00
7.539	7.539 (1.254)	77	63910			1.79- 61.79	31.79
7.539	7.539 (1.254)	39	94086			16.80- 76.80	46.80
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.777	7.777 (1.293)	85	55115	200.000	209.83	80.00- 120.00	100.00
7.763	7.763 (1.291)	43	297423			496.17- 556.17	539.64
7.763	7.763 (1.291)	58	123123			186.00- 246.00	223.39
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	575143	200.000	206.52	80.00- 120.00	100.00
7.903	7.903 (1.314)	92	342361			29.53- 89.53	59.53
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	205733	200.000	205.88	80.00- 120.00	100.00
8.281	8.281 (0.890)	77	65770			1.97- 61.97	31.97
8.281	8.281 (0.890)	39	92640			15.03- 75.03	45.03

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	196439	200.000	202.47	80.00- 120.00	100.00
8.463	8.463 (0.910)	99	120995			31.59- 91.59	61.59
8.463	8.463 (0.910)	83	157666			50.26- 110.26	80.26
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	309238	200.000	193.49	80.00- 120.00	100.00
8.477	8.477 (0.911)	129	225184			42.82- 102.82	72.82
8.477	8.477 (0.911)	131	220036			41.15- 101.15	71.15
120 2-Hexanone					CAS #: 591-78-6		
8.714	8.714 (0.937)	58	159039	200.000	204.85	80.00- 120.00	100.00
8.714	8.714 (0.937)	43	291008			152.98- 212.98	182.98
8.714	8.714 (0.937)	100	40047			0.00- 56.44	25.18
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	368495	200.000	213.76	80.00- 120.00	100.00
8.812	8.812 (0.947)	127	282870			47.23- 107.23	76.76
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	317269	200.000	204.92	80.00- 120.00	100.00
8.924	8.924 (0.959)	109	299554			64.42- 124.42	94.42
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	496312	200.000	199.98	80.00- 120.00	100.00
9.330	9.330 (1.003)	114	159466			2.13- 62.13	32.13
9.330	9.330 (1.003)	77	241981			18.76- 78.76	48.76
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	251699	200.000	201.50	80.00- 120.00	100.00
9.400	9.400 (1.011)	91	736877			262.66- 322.66	292.76
131 m,p-Xylene					CAS #: 108-38-3		
9.512	9.512 (1.023)	106	316467	200.000	202.68	80.00- 120.00	100.00
9.498	9.498 (1.021)	91	588779			157.05- 217.05	186.05
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	300465	200.000	201.37	80.00- 120.00	100.00
9.820	9.820 (1.056)	91	587550			165.55- 225.55	195.55
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	463292	200.000	215.62	80.00- 120.00	100.00
9.834	9.834 (1.057)	78	205684			14.40- 74.40	44.40
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	341079	200.000	208.24	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	174925			21.29- 81.29	51.29
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	890802	200.000	204.26	80.00- 120.00	100.00
10.072	10.072 (1.083)	120	252870			0.00- 58.36	28.39
10.072	10.072 (1.083)	51	71377			0.00- 38.10	8.01
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.338	10.338 (1.111)	83	409680	200.000	198.12	80.00- 120.00	100.00
10.338	10.338 (1.111)	85	272152			36.43- 96.43	66.43
143 Propylbenzene					CAS #: 103-65-1		
10.352	10.352 (1.113)	91	1027960	200.000	201.91	80.00- 120.00	100.00
10.352	10.352 (1.113)	120	268145			0.00- 56.26	26.09
10.352	10.352 (1.113)	105	40615			0.00- 34.01	3.95
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	927790	200.000	202.40	80.00- 120.00	100.00
10.421	10.421 (1.120)	120	293674			1.65- 61.65	31.65
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	784960	200.000	207.28	80.00- 120.00	100.00
10.463	10.463 (1.125)	120	399468			21.07- 81.07	50.89
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	674657	200.000	193.17	80.00- 120.00	100.00
10.701	10.701 (1.150)	120	334204			19.54- 79.54	49.54
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	534787	200.000	191.38	80.00- 120.00	100.00
10.883	10.883 (1.170)	148	344122			33.28- 93.28	64.35
10.883	10.883 (1.170)	111	198390			8.11- 68.11	37.10
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	545456	200.000	195.02	80.00- 120.00	100.00
10.939	10.939 (1.176)	148	346170			34.27- 94.27	63.46
10.939	10.939 (1.176)	111	195607			7.14- 67.14	35.86
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	411278	200.000	216.94	80.00- 120.00	100.00
11.023	11.023 (1.185)	126	100724			0.00- 54.00	24.49
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	496205	200.000	192.34	80.00- 120.00	100.00
11.149	11.149 (1.199)	148	318821			34.25- 94.25	64.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	189102			8.11- 68.11	38.11
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.975	11.975 (1.287)	180	249128	200.000	166.62	80.00- 120.00	100.00
11.975	11.975 (1.287)	182	237420			65.30- 125.30	95.30
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.031	12.031 (1.293)	225	204482	200.000	147.34	80.00- 120.00	100.00
12.031	12.031 (1.293)	223	126499			31.86- 91.86	61.86
171 Naphthalene					CAS #: 91-20-3		
12.114	12.114 (1.302)	128	369142	200.000	219.26	80.00- 120.00	100.00
12.114	12.114 (1.302)	127	44426			0.00- 42.15	12.03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052602.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /var/chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 200ppbv>200ppbv

Calibration Date: 27-MAY-2010
Calibration Time: 02:15
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	266510	159906	373114	213867	-19.75
94 1,4-Difluorobenze	994245	596547	1391943	789670	-20.58
125 Chlorobenzene-d5	929362	557617	1301107	751322	-19.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/26may10.b/b052602.d

Date : 26-MAY-2010 23:57

Client ID: CCV

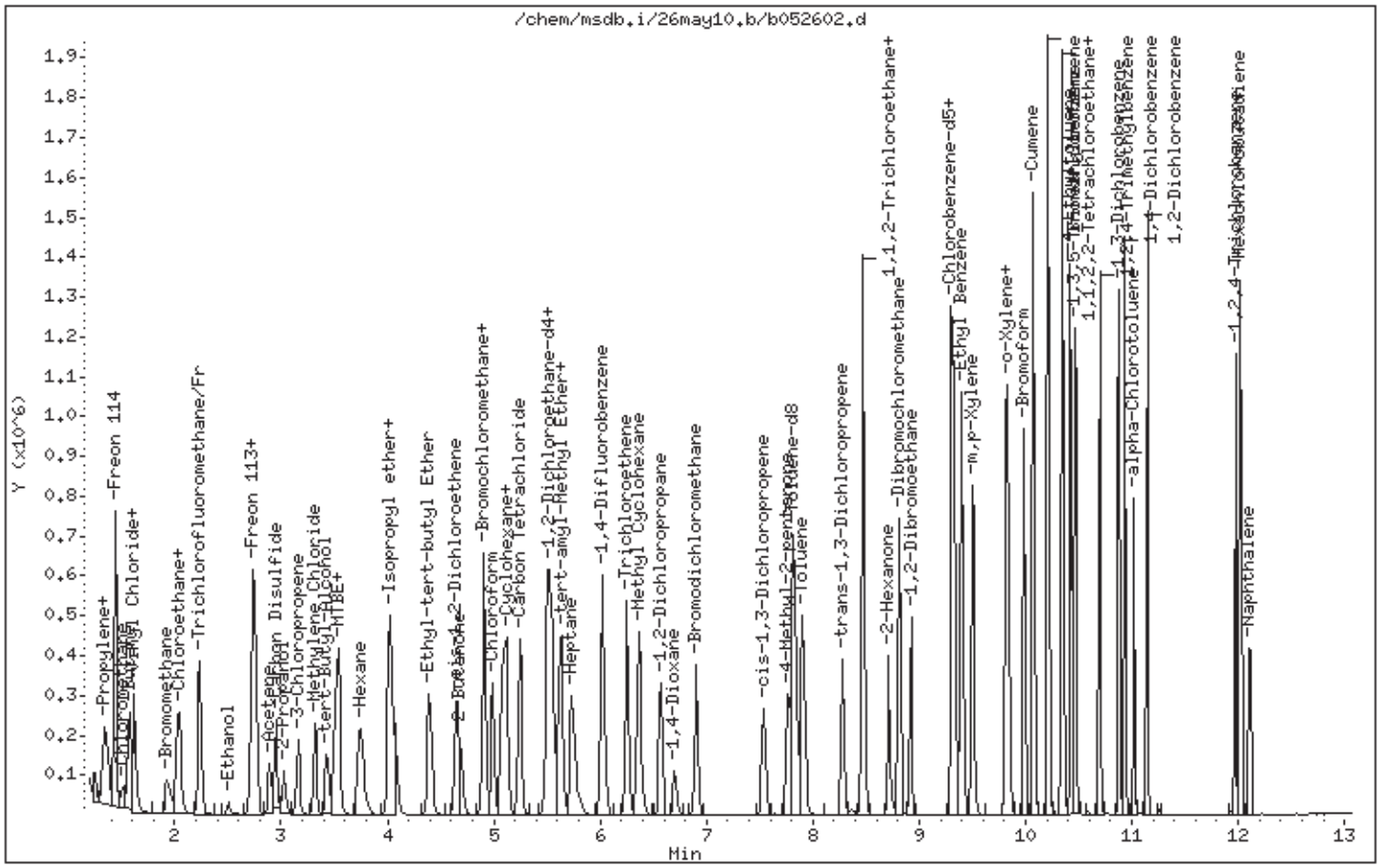
Instrument: msdb.i

Sample Info: 50mL #1936-136

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msdb.i/26may10.b/b052605.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-MAY-2010 02:44
Operator : ww Inst ID: msdb.i
Smp Info : 2.0mL #1830-5
Misc Info : 100ppmv>4000ppbv
Comment :
Method : /var/chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 27-May-2010 02:30 edanek Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS
1.243	96903	29146	0.301	0.34		
1.453	32608	18563	0.569	0.11	5	Propylene
1.579	211369	98552	0.466	0.74	13	Butane
1.649	27190	11915	0.438	0.10		
1.733	19563	9070	0.464	0.07		
1.942	6551	2575	0.393	0.02		
2.040	832686	284496	0.342	2.92	20	Isopentane
2.292	378505	96483	0.255	1.33	21	Pentane
2.432	88161	37339	0.424	0.31		
2.474	300202	95981	0.320	1.05	30	Ethanol
2.544	54128	24163	0.446	0.19		
2.586	171998	58202	0.338	0.60		2-Pentene
2.712	96178	26238	0.273	0.34		
2.950	3738	1145	0.306	0.01		
3.202	700708	117286	0.167	2.46	48	Methylene Chloride
3.454	218703	58883	0.269	0.77		Pentane, 3-methyl-
3.663	34110	10578	0.310	0.12		
3.747	169103	40288	0.238	0.59	55	Hexane
3.873	31993	10682	0.334	0.11		
3.971	177299	37363	0.211	0.62		2-Pentene, 4-methyl-,
4.055	40529	10735	0.265	0.14		
4.125	52913	11552	0.218	0.19		
4.279	153095	27423	0.179	0.54		Pentane, 2,4-dimethyl-
4.377	173038	55537	0.321	0.61	77	Cyclohexane

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.461	27639	7385	0.267	0.10	
4.755	4214	951	0.226	0.01	
4.839	15724	6727	0.428	0.06	
4.909	1033129	487500	0.472	3.63	* 75 Bromochloromethane
5.049	239103	53932	0.226	0.84	74 Tetrahydrofuran
5.119	222170	49695	0.224	0.78	Azetidine, 1-methyl-
5.244	282769	68281	0.241	0.99	Heptane, 4-methyl-
5.510	686451	214555	0.313	2.41	82 2,2,4-Trimethylpentane
5.552	1088566	354155	0.325	3.82	$ 86 1,2-Dichloroethane-d4
5.734	219373	54519	0.249	0.77	93 Heptane
5.916	71013	17703	0.249	0.25	
6.014	1600548	576503	0.360	5.62	* 94 1,4-Difluorobenzene
6.182	31548	9051	0.287	0.11	
6.364	189174	52992	0.280	0.66	97 Methyl Cyclohexane
6.434	190678	39138	0.205	0.67	Heptane, 2,4-dimethyl-
6.588	31773	9425	0.297	0.11	
6.658	26143	6110	0.234	0.09	
6.868	295456	83382	0.282	1.04	Heptane, 4-methyl-
7.021	255375	71174	0.279	0.90	Pentane, 2,3,3-trimeth
7.063	182385	49966	0.274	0.64	2,4-Heptadiene, (E,E)-
7.147	126315	31131	0.246	0.44	Hexane, 2,5-dimethyl-
7.203	92057	23967	0.260	0.32	
7.371	177250	30088	0.170	0.62	Pentane, 2,3,3,4-tetra
7.581	105335	21964	0.209	0.37	Hexane, 2,2,4-trimethy
7.651	50555	14054	0.278	0.18	
7.819	1814836	636650	0.351	6.37	$ 110 Toluene-d8
7.903	2683501	895157	0.334	19.77	108 cis-1,3-Dichloropropen
8.099	25326	5486	0.217	0.09	
8.239	19804	7447	0.376	0.07	
8.309	46167	11976	0.259	0.16	
8.393	11394	3931	0.345	0.04	
8.533	15423	4066	0.264	0.05	
8.630	27944	8919	0.319	0.10	
8.672	21602	7612	0.352	0.08	
8.728	10538	4499	0.427	0.04	
8.770	11632	4482	0.385	0.04	
8.812	13331	3976	0.298	0.05	
8.952	20843	6297	0.302	0.07	
9.036	76188	22561	0.296	0.27	
9.134	43152	15556	0.360	0.15	
9.218	19108	6157	0.322	0.07	
9.302	1964636	1148440	0.585	6.90	* 125 Chlorobenzene-d5
9.400	549216	337754	0.615	1.93	128 Ethyl Benzene
9.694	16378	5088	0.311	0.06	
9.946	13855	5772	0.417	0.05	
10.072	55917	36888	0.660	0.20	138 Cumene
10.142	54316	21604	0.398	0.19	
10.212	2354269	1766819	0.750	8.27	$ 139 Bromofluorobenzene
10.268	29811	11514	0.386	0.10	
10.351	186146	143992	0.774	0.65	143 Propylbenzene

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.407	1061300	545102	0.514	3.73	147 4-Ethyltoluene
10.463	388414	209555	0.540	1.36	149 1,3,5-Trimethylbenzene
10.589	278679	182885	0.656	0.98	Benzene, 1-ethyl-3-met
10.701	1063900	741308	0.697	3.74	152 1,2,4-Trimethylbenzene
10.771	64236	25759	0.401	0.23	
10.841	46217	20251	0.438	0.16	
10.911	51018	24203	0.474	0.18	
10.939	210660	142288	0.675	0.74	Benzene, 1-ethyl-3-met
11.051	207566	124962	0.602	0.73	161 alpha-Chlorotoluene
11.093	233094	107204	0.460	0.82	Benzene, 1-methyl-2-(1
11.149	14357	7485	0.521	0.05	
11.191	37522	29211	0.778	0.13	
11.247	104669	45651	0.436	0.37	Benzene, 1-methyl-3-(1
11.289	89639	64293	0.717	0.31	
11.359	38219	21935	0.574	0.13	
11.457	18197	13028	0.716	0.06	
11.527	103792	39091	0.377	0.36	Benzene, 1,2,3,5-tetra
11.569	20062	8477	0.423	0.07	
11.681	24736	16678	0.674	0.09	
11.765	46005	23281	0.506	0.16	
11.919	8913	3987	0.447	0.03	
11.989	5585	3688	0.660	0.02	
12.100	13837	8782	0.635	0.05	
12.604	4626 545	1407	0.304	0.02	
	28482238	12600575		100.000	

Total unknown % area = 20.730

$$\frac{28482238 - 9,185,024 - 832,048}{4000} =$$

$$\frac{4,616.29}{6359.61} = 72.59\%$$

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005522A-13B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 10:12 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	103
Chloromethane	96
Vinyl Chloride	95
1,3-Butadiene	86
Bromomethane	105
Chloroethane	99
Freon 11	102
Ethanol	86
Freon 113	103
1,1-Dichloroethene	97
Acetone	99
2-Propanol	86
Carbon Disulfide	101
3-Chloropropene	99
Methylene Chloride	95
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	100
Hexane	95
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	97
Tetrahydrofuran	95
Chloroform	102
1,1,1-Trichloroethane	100
Cyclohexane	99
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	96
Benzene	98
1,2-Dichloroethane	100
Heptane	99
Trichloroethene	86
1,2-Dichloropropane	97
1,4-Dioxane	100
Bromodichloromethane	99
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	98
Toluene	101
trans-1,3-Dichloropropene	98

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005522A-13B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 10:12 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	99
Tetrachloroethene	104
2-Hexanone	93
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	103
Chlorobenzene	104
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	99
Styrene	99
Bromoform	104
Cumene	107
1,1,2,2-Tetrachloroethane	103
Propylbenzene	106
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	117
TPH ref. to Gasoline (MW=100)	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdw.i Injection Date: 02-JUN-2010 10:12
Lab File ID: w060204.d Init. Cal. Date(s): 11-MAY-2010 01-JUN-2010
Analysis Type: AIR Init. Cal. Times: 12:22 18:54
Lab Sample ID: 1936-138 Quant Type: ISTD
Method: /chem/msdw.i/02jun10.b/w1050511b.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 88 1,2-Dichloroethane-d4	1.34421	1.23167	0.010	8.37227	30.00000	Averaged
$ 108 Toluene-d8	0.96624	0.96718	0.010	-0.09659	30.00000	Averaged
$ 142 Bromofluorobenzene	0.55931	0.57712	0.010	-3.18453	30.00000	Averaged
5 Propylene	0.85569	0.92248	0.010	-7.80489	30.00000	Averaged
7 Dichlorodifluoromethane/Fr1	2.67881	2.69849	0.010	-0.73466	30.00000	Averaged
9 Freon 114	2.15378	2.21008	0.010	-2.61367	30.00000	Averaged
10 Chloromethane	1.21487	1.16895	0.010	3.77987	30.00000	Averaged
11 Butane	0.31218	0.29918	0.010	4.16427	30.00000	Averaged
12 Vinyl Chloride	1.20921	1.14955	0.010	4.93329	30.00000	Averaged
13 1,3-Butadiene	1.03104	0.88862	0.010	13.81323	30.00000	Averaged
15 Bromomethane	0.86675	0.91175	0.010	-5.19155	30.00000	Averaged
16 Chloroethane	0.62965	0.62588	0.010	0.59805	30.00000	Averaged
17 Isopentane	1.54121	1.51061	0.010	1.98533	30.00000	Averaged
19 Trichlorofluoromethane/Fr11	3.09530	3.16159	0.010	-2.14172	30.00000	Averaged
25 Ethanol	0.50321	0.43411	0.010	13.73258	30.00000	Averaged
32 Freon 113	1.94423	2.00582	0.010	-3.16768	30.00000	Averaged
33 1,1-Dichloroethene	2.05025	1.98434	0.010	3.21514	30.00000	Averaged
34 Acetone	0.58309	0.57562	0.010	1.28212	30.00000	Averaged
36 Carbon Disulfide	2.65412	2.69150	0.010	-1.40833	30.00000	Averaged
37 2-Propanol	2.30131	1.98341	0.010	13.81373	30.00000	Averaged
38 3-Chloropropene	0.47534	0.47055	0.010	1.00720	30.00000	Averaged
45 Methylene Chloride	1.59872	1.51967	0.010	4.94435	30.00000	Averaged
46 tert-Butyl-Alcohol	1.69789	1.48750	0.010	12.39167	30.00000	Averaged
48 MTBE	2.80837	2.83027	0.010	-0.77972	30.00000	Averaged
49 trans-1,2-Dichloroethene	1.15260	1.15884	0.010	-0.54198	30.00000	Averaged
52 Hexane	2.25297	2.14474	0.010	4.80406	30.00000	Averaged
53 Isopropyl ether	4.72672	4.58406	0.010	3.01815	30.00000	Averaged
55 1,1-Dichloroethane	2.26146	2.25254	0.010	0.39453	30.00000	Averaged
58 Vinyl Acetate	0.29239	0.28647	0.010	2.02742	30.00000	Averaged
63 Ethyl-tert-butyl Ether	3.92938	3.92382	0.010	0.14141	30.00000	Averaged
68 cis-1,2-Dichloroethene	1.71339	1.66705	0.010	2.70433	30.00000	Averaged
70 2-Butanone	0.53694	0.52643	0.010	1.95801	30.00000	Averaged
72 Tetrahydrofuran	1.60093	1.51772	0.010	5.19808	30.00000	Averaged
74 Chloroform	2.26757	2.32467	0.010	-2.51820	30.00000	Averaged
77 1,1,1-Trichloroethane	2.55030	2.54390	0.010	0.25111	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdw.i Injection Date: 02-JUN-2010 10:12
Lab File ID: w060204.d Init. Cal. Date(s): 11-MAY-2010 01-JUN-2010
Analysis Type: AIR Init. Cal. Times: 12:22 18:54
Lab Sample ID: 1936-138 Quant Type: ISTD
Method: /chem/msdw.i/02jun10.b/w1050511b.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
76 Cyclohexane	1.65098	1.62950	0.010	1.30076	30.00000	Averaged
79 Carbon Tetrachloride	2.64395	2.70106	0.010	-2.15982	30.00000	Averaged
84 2,2,4-Trimethylpentane	6.93688	6.66492	0.010	3.92051	30.00000	Averaged
86 Benzene	0.88231	0.86898	0.010	1.51006	30.00000	Averaged
89 tert-amyl-Methyl Ether	3.20427	3.20995	0.010	-0.17724	30.00000	Averaged
90 1,2-Dichloroethane	0.47647	0.47613	0.010	0.07225	30.00000	Averaged
91 Heptane	0.32985	0.32612	0.010	1.13107	30.00000	Averaged
95 Trichloroethene	0.47991	0.41318	0.010	13.90517	30.00000	Averaged
97 Methyl Cyclohexane	0.56997	0.57277	0.010	-0.49107	30.00000	Averaged
98 1,2-Dichloropropane	0.36421	0.35440	0.010	2.69181	30.00000	Averaged
102 1,4-Dioxane	0.21137	0.21190	0.010	-0.25264	30.00000	Averaged
104 Bromodichloromethane	0.64633	0.64211	0.010	0.65334	30.00000	Averaged
106 cis-1,3-Dichloropropene	0.47713	0.46296	0.010	2.96989	30.00000	Averaged
107 4-Methyl-2-pentanone	0.12452	0.12222	0.010	1.84834	30.00000	Averaged
114 Toluene	1.16781	1.17546	0.010	-0.65498	30.00000	Averaged
117 trans-1,3-Dichloropropene	0.52072	0.51091	0.010	1.88411	30.00000	Averaged
118 1,1,2-Trichloroethane	0.39455	0.39206	0.010	0.63051	30.00000	Averaged
119 Tetrachloroethene	0.58584	0.61251	0.010	-4.55210	30.00000	Averaged
122 2-Hexanone	0.47698	0.44520	0.010	6.66251	30.00000	Averaged
124 Dibromochloromethane	0.74948	0.77187	0.010	-2.98628	30.00000	Averaged
125 1,2-Dibromoethane	0.63299	0.65377	0.010	-3.28217	30.00000	Averaged
127 Chlorobenzene	1.03787	1.08001	0.010	-4.06025	30.00000	Averaged
129 Ethyl Benzene	0.51396	0.51716	0.010	-0.62398	30.00000	Averaged
132 m,p-Xylene	0.65354	0.65971	0.010	-0.94469	30.00000	Averaged
134 o-Xylene	0.62536	0.61957	0.010	0.92561	30.00000	Averaged
135 Styrene	0.97594	0.96935	0.010	0.67482	30.00000	Averaged
139 Bromoform	0.62543	0.65311	0.010	-4.42529	30.00000	Averaged
140 Cumene	1.82261	1.95197	0.010	-7.09719	30.00000	Averaged
143 1,1,2,2-Tetrachloroethane	0.82460	0.85262	0.010	-3.39775	30.00000	Averaged
145 Propylbenzene	2.04279	2.16028	0.010	-5.75142	30.00000	Averaged
147 4-Ethyltoluene	1.84212	2.05603	0.010	-11.61219	30.00000	Averaged
149 1,3,5-Trimethylbenzene	1.64508	1.76262	0.010	-7.14515	30.00000	Averaged
153 1,2,4-Trimethylbenzene	1.41784	1.57121	0.010	-10.81739	30.00000	Averaged
157 1,3-Dichlorobenzene	0.96936	1.07467	0.010	-10.86466	30.00000	Averaged
158 1,4-Dichlorobenzene	1.03711	1.15057	0.010	-10.93982	30.00000	Averaged
162 alpha-Chlorotoluene	1.05420	1.17177	0.010	-11.15287	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdw.i Injection Date: 02-JUN-2010 10:12
Lab File ID: w060204.d Init. Cal. Date(s): 11-MAY-2010 01-JUN-2010
Analysis Type: AIR Init. Cal. Times: 12:22 18:54
Lab Sample ID: 1936-138 Quant Type: ISTD
Method: /chem/msdw.i/02jun10.b/w1050511b.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
165 1,2-Dichlorobenzene	0.87613	1.00033	0.010	-14.17687	30.00000	Averaged
169 1,2,4-Trichlorobenzene	0.37240	0.42754	0.010	-14.80811	30.00000	Averaged
170 Hexachlorobutadiene	0.23990	0.28123	0.010	-17.22718	30.00000	Averaged
171 Naphthalene	0.91942	0.87271	0.010	5.08009	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/02jun10.b/w060204.d
Lab Smp Id: 1936-138 Client Smp ID: CCV
Inj Date : 02-JUN-2010 10:12
Operator : LL Inst ID: msdw.i
Smp Info : 50ml,35997
Misc Info : CCV
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	140702	400.000		80.00- 120.00	100.00
5.370	5.370 (1.000)	128	111065			0.00- 30.00	78.94
5.356	5.356 (1.000)	49	193702			107.67- 167.67	137.67
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	529979	400.000		80.00- 120.00	100.00
6.490	6.490 (1.000)	88	68848			0.00- 30.00	12.99
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	520409	400.000		80.00- 120.00	100.00
8.924	8.924 (1.000)	82	252332			0.00- 30.00	48.49
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	173299	400.000	366.51	80.00- 120.00	100.00
6.028	6.028 (1.122)	67	91516			0.00- 30.00	52.81
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	512583	400.000	400.39	80.00- 120.00	100.00
7.847	7.847 (1.209)	70	53680			0.00- 30.00	10.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	353859			0.00- 30.00	69.03
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	300341	400.000	412.74	80.00- 120.00	100.00
9.652	9.652 (1.082)	95	342772			84.13- 144.13	114.13
9.652	9.652 (1.082)	176	288525			66.07- 126.07	96.07
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	64897	200.000	215.61	80.00- 120.00	100.00
1.481	1.481 (0.276)	42	41075			0.00- 30.00	63.29
1.481	1.481 (0.276)	39	49104			0.00- 30.00	75.66
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.281)	85	189842	200.000	201.47	80.00- 120.00	100.00
1.509	1.509 (0.281)	87	61028			0.00- 30.00	32.15
9 Freon 114					CAS #: 76-14-2		
1.620	1.620 (0.302)	135	155482	200.000	205.23	80.00- 120.00	100.00
1.620	1.620 (0.302)	137	48864			0.00- 30.00	31.43
10 Chloromethane					CAS #: 74-87-3		
1.718	1.718 (0.320)	50	82237	200.000	192.44	80.00- 120.00	100.00
1.718	1.718 (0.320)	52	25798			0.00- 30.00	31.37
11 Butane					CAS #: 106-97-8		
1.774	1.774 (0.330)	58	21047	200.000	191.67	80.00- 120.00	100.00
1.774	1.774 (0.330)	43	134912			0.00- 30.00	640.99
12 Vinyl Chloride					CAS #: 75-01-4		
1.816	1.816 (0.338)	62	80872	200.000	190.13	80.00- 120.00	100.00
1.816	1.816 (0.338)	64	24915			0.00- 30.00	30.81
13 1,3-Butadiene					CAS #: 106-99-0		
1.830	1.830 (0.341)	54	62515	200.000	172.37	80.00- 120.00	100.00
1.830	1.830 (0.341)	39	60908			0.00- 30.00	97.43
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.409)	94	64142	200.000	210.38	80.00- 120.00	100.00
2.194	2.194 (0.409)	96	59778			0.00- 30.00	93.20
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.427)	64	44031	200.000	198.80	80.00- 120.00	100.00
2.292	2.292 (0.427)	49	12967			0.00- 30.00	29.45
2.292	2.292 (0.427)	66	13362			0.00- 30.00	30.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	106273	200.000	196.03	80.00- 120.00	100.00
2.320	2.320 (0.432)	57	72924			0.00- 30.00	68.62
2.320	2.320 (0.432)	72	7932			0.00- 30.00	7.46
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	222422	200.000	204.28	80.00- 120.00	100.00
2.530	2.530 (0.471)	103	143296			0.00- 30.00	64.43
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	30540	200.000	172.53	80.00- 120.00	100.00
2.810	2.810 (0.523)	43	7571			0.00- 30.00	24.79
2.810	2.810 (0.523)	46	13065			0.00- 30.00	42.78
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	141112	200.000	206.34	80.00- 120.00	100.00
3.090	3.090 (0.575)	153	92054			0.00- 30.00	65.24
3.090	3.090 (0.575)	101	174227			93.47- 153.47	123.47
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.118	3.118 (0.581)	61	139600	200.000	193.57	80.00- 120.00	100.00
3.118	3.118 (0.581)	96	77370			0.00- 30.00	55.42
3.118	3.118 (0.581)	98	48830			4.98- 64.98	34.98
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	40495	200.000	197.44	80.00- 120.00	100.00
3.230	3.230 (0.601)	43	137969			0.00- 30.00	340.70
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	189350	200.000	202.82	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.369	3.369 (0.627)	45	139536	200.000	172.37	80.00- 120.00	100.00
3.369	3.369 (0.627)	43	34425			0.00- 30.00	24.67
3.369	3.369 (0.627)	59	5057			0.00- 30.00	3.62
38 3-Chloropropene					CAS #: 107-05-1		
3.537	3.537 (0.659)	76	33104	200.000	197.98	80.00- 120.00	100.00
3.537	3.537 (0.659)	41	103243			0.00- 30.00	311.88
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	106911	200.000	190.11	80.00- 120.00	100.00
3.705	3.705 (0.690)	84	65042			0.00- 30.00	60.84
3.705	3.705 (0.690)	51	32527			0.00- 30.00	30.42
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.708)	59	104647	200.000	175.22	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.803	3.803 (0.708)	41	26264			0.00- 30.00	25.10
3.803	3.803 (0.708)	57	11856			0.00- 30.00	11.33
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	199113	200.000	201.56	80.00- 120.00	100.00
3.915	3.915 (0.729)	57	54000			0.00- 30.00	27.12
3.915	3.915 (0.729)	41	53958			0.00- 30.00	27.10
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	81526	200.000	201.08	80.00- 120.00	100.00
3.943	3.943 (0.734)	61	124176			0.00- 30.00	152.31
3.943	3.943 (0.734)	98	51371			0.00- 30.00	63.01
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.776)	57	150885	200.000	190.39	80.00- 120.00	100.00
4.167	4.167 (0.776)	43	94325			0.00- 30.00	62.51
4.167	4.167 (0.776)	86	25190			0.00- 30.00	16.70
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.825)	45	322495	200.000	193.96	80.00- 120.00	100.00
4.447	4.447 (0.828)	87	71600			0.00- 30.00	22.20
4.433	4.433 (0.825)	59	34693			0.00- 30.00	10.76
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	158469	200.000	199.21	80.00- 120.00	100.00
4.447	4.447 (0.828)	65	48072			0.00- 30.00	30.34
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	20153	200.000	195.94	80.00- 120.00	100.00
4.489	4.489 (0.836)	43	255544			0.00- 30.00	1268.00
4.489	4.489 (0.836)	42	24835			0.00- 30.00	123.23
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.839	4.839 (0.901)	59	276046	200.000	199.72	80.00- 120.00	100.00
4.839	4.839 (0.901)	87	103237			0.00- 30.00	37.40
4.839	4.839 (0.901)	41	56604			0.00- 30.00	20.51
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.090	5.090 (0.948)	61	117279	200.000	194.59	80.00- 120.00	100.00
5.090	5.090 (0.948)	96	82722			0.00- 30.00	70.53
5.090	5.090 (0.948)	98	52602			14.85- 74.85	44.85
70 2-Butanone					CAS #: 78-93-3		
5.118	5.118 (0.953)	72	37035	200.000	196.08	80.00- 120.00	100.00
5.118	5.118 (0.953)	43	182985			0.00- 30.00	494.09

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
70 2-Butanone (continued)							
5.118	5.118 (0.953)	57	14517			0.00- 30.00	39.20
72 Tetrahydrofuran					CAS #: 109-99-9		
5.356	5.356 (0.997)	42	106773	200.000	189.60	80.00- 120.00	100.00
5.356	5.356 (0.997)	71	33754			0.00- 30.00	31.61
5.356	5.356 (0.997)	72	34750			0.00- 30.00	32.55
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	163543	200.000	205.04	80.00- 120.00	100.00
5.440	5.440 (1.013)	85	105113			0.00- 30.00	64.27
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	178967	200.000	199.50	80.00- 120.00	100.00
5.594	5.594 (1.042)	99	114061			0.00- 30.00	63.73
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	114637	200.000	197.40	80.00- 120.00	100.00
5.580	5.580 (1.039)	56	149759			0.00- 30.00	130.64
5.580	5.580 (1.039)	41	83274			42.64- 102.64	72.64
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	190023	200.000	204.32	80.00- 120.00	100.00
5.734	5.734 (1.068)	117	198203			0.00- 30.00	104.31
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.115)	57	468887	200.000	192.16	80.00- 120.00	100.00
5.986	5.986 (1.115)	56	148984			0.00- 30.00	31.77
5.986	5.986 (1.115)	41	117253			0.00- 30.00	25.01
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	230271	200.000	196.98	80.00- 120.00	100.00
6.000	6.000 (0.925)	77	54480			0.00- 30.00	23.66
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.135)	73	225825	200.000	200.35	80.00- 120.00	100.00
6.098	6.098 (1.135)	87	57322			0.00- 30.00	25.38
6.098	6.098 (1.135)	55	76299			0.00- 30.00	33.79
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	126169	200.000	199.86	80.00- 120.00	100.00
6.112	6.112 (0.942)	64	40351			0.00- 30.00	31.98
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	86418	200.000	197.74	80.00- 120.00	100.00
6.224	6.224 (0.959)	43	176405			0.00- 30.00	204.13

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
91 Heptane (continued)							
6.224	6.224 (0.959)	100	35527			0.00- 30.00	41.11
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	109488	200.000	172.19	80.00- 120.00	100.00
6.742	6.742 (1.039)	130	131738			0.00- 30.00	120.32
6.742	6.742 (1.039)	97	70384			34.28- 94.28	64.28
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.867	6.867 (1.058)	83	151779	200.000	200.98	80.00- 120.00	100.00
6.867	6.867 (1.058)	98	80526			0.00- 30.00	53.06
6.867	6.867 (1.058)	55	140946			0.00- 30.00	92.86
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.007	7.007 (1.080)	63	93913	200.000	194.62	80.00- 120.00	100.00
7.007	7.007 (1.080)	62	68645			0.00- 30.00	73.09
7.007	7.007 (1.080)	41	61396			35.38- 95.38	65.38
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	56151	200.000	200.50	80.00- 120.00	100.00
7.119	7.119 (1.097)	58	44448			0.00- 30.00	79.16
7.119	7.119 (1.097)	57	15356			0.00- 30.00	27.35
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	170152	200.000	198.69	80.00- 120.00	100.00
7.273	7.273 (1.121)	85	110550			0.00- 30.00	64.97
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	122680	200.000	194.06	80.00- 120.00	100.00
7.665	7.665 (1.181)	77	38633			0.00- 30.00	31.49
7.665	7.665 (1.181)	39	71653			28.41- 88.41	58.41
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	32386	200.000	196.30	80.00- 120.00	100.00
7.791	7.791 (1.200)	43	219777			0.00- 30.00	678.61
7.791	7.791 (1.200)	58	82980			0.00- 30.00	256.22
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	311484	200.000	201.31	80.00- 120.00	100.00
7.903	7.903 (1.218)	92	187945			0.00- 30.00	60.34
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	132941	200.000	196.23	80.00- 120.00	100.00
8.127	8.127 (0.911)	77	41005			0.00- 30.00	30.84
8.127	8.127 (0.911)	39	69128			22.00- 82.00	52.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	102016	200.000	198.74	80.00- 120.00	100.00
8.267	8.267 (0.926)	99	63427			0.00- 30.00	62.17
8.267	8.267 (0.926)	83	85489			53.80- 113.80	83.80
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	159378	200.000	209.10	80.00- 120.00	100.00
8.295	8.295 (0.929)	129	126456			0.00- 30.00	79.34
8.309	8.309 (0.931)	131	121420			46.18- 106.18	76.18
122 2-Hexanone					CAS #: 591-78-6		
8.421	8.421 (0.944)	58	115844	200.000	186.67	80.00- 120.00	100.00
8.421	8.421 (0.944)	43	217518			0.00- 30.00	187.77
8.435	8.435 (0.945)	100	26661			0.00- 30.00	23.02
124 Dibromochloromethane					CAS #: 124-48-1		
8.532	8.532 (0.956)	129	200843	200.000	205.97	80.00- 120.00	100.00
8.532	8.532 (0.956)	127	155737			0.00- 30.00	77.54
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.630	8.630 (0.967)	107	170112	200.000	206.56	80.00- 120.00	100.00
8.630	8.630 (0.967)	109	162224			0.00- 30.00	95.36
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	281022	200.000	208.12	80.00- 120.00	100.00
8.938	8.938 (1.002)	114	90602			0.00- 30.00	32.24
8.938	8.938 (1.002)	77	139744			19.73- 79.73	49.73
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	134568	200.000	201.25	80.00- 120.00	100.00
8.994	8.994 (1.008)	91	415435			0.00- 30.00	308.72
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	171660	200.000	201.89	80.00- 120.00	100.00
9.064	9.064 (1.016)	91	323946			0.00- 30.00	188.71
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	161215	200.000	198.15	80.00- 120.00	100.00
9.316	9.316 (1.044)	91	328165			0.00- 30.00	203.56
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	252230	200.000	198.65	80.00- 120.00	100.00
9.330	9.330 (1.045)	78	112574			0.00- 30.00	44.63
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	169942	200.000	208.85	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	87731			0.00- 30.00	51.62
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	507910	200.000	214.19	80.00- 120.00	100.00
9.526	9.526 (1.067)	120	142806			0.00- 30.00	28.12
9.526	9.526 (1.067)	51	55742			0.00- 30.00	10.97
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	221855	200.000	206.80	80.00- 120.00	100.00
9.736	9.736 (1.091)	85	141897			0.00- 30.00	63.96
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	562114	200.000	211.50	80.00- 120.00	100.00
9.764	9.764 (1.094)	120	143731			0.00- 30.00	25.57
9.764	9.764 (1.094)	105	21718			0.00- 30.00	3.86
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	534989	200.000	223.22	80.00- 120.00	100.00
9.820	9.820 (1.100)	120	167362			0.00- 30.00	31.28
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	458643	200.000	214.29	80.00- 120.00	100.00
9.848	9.848 (1.103)	120	234692			0.00- 30.00	51.17
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	408837	200.000	221.63	80.00- 120.00	100.00
10.058	10.058 (1.127)	120	200244			0.00- 30.00	48.98
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.225	10.225 (1.146)	146	279634	200.000	221.73	80.00- 120.00	100.00
10.239	10.239 (1.147)	148	179872			0.00- 30.00	64.32
10.225	10.225 (1.146)	111	111891			0.00- 30.00	40.01
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.281	10.281 (1.152)	146	299382	200.000	221.88	80.00- 120.00	100.00
10.281	10.281 (1.152)	148	190375			0.00- 30.00	63.59
10.281	10.281 (1.152)	111	111247			0.00- 30.00	37.16
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.351	10.351 (1.160)	91	304901	200.000	222.30	80.00- 120.00	100.00
10.351	10.351 (1.160)	126	74339			0.00- 30.00	24.38
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.477	10.477 (1.174)	146	260291	200.000	228.35	80.00- 120.00	100.00
10.477	10.477 (1.174)	148	166337			0.00- 30.00	63.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
165 1,2-Dichlorobenzene (continued)							
10.477	10.477 (1.174)	111	105855			10.67- 70.67	40.67
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	111247	200.000	229.62	80.00- 120.00	100.00
11.247	11.247 (1.260)	182	100206			0.00- 30.00	90.07
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	73177	200.000	234.45	80.00- 120.00	100.00
11.289	11.289 (1.265)	223	45436			0.00- 30.00	62.09
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	227084	200.000	189.84	80.00- 120.00	100.00
11.373	11.373 (1.274)	127	28477			0.00- 30.00	12.54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w060204.d
Lab Smp Id: 1936-138
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: CCV

Calibration Date: 02-JUN-2010
Calibration Time: 10:12
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	140702	84421	196983	140702	0.00
93 1,4-Difluorobenze	529979	317987	741971	529979	0.00
126 Chlorobenzene-d5	520409	312245	728573	520409	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/02jun10.b/w060204.d

Date : 02-JUN-2010 10:12

Client ID: CCV

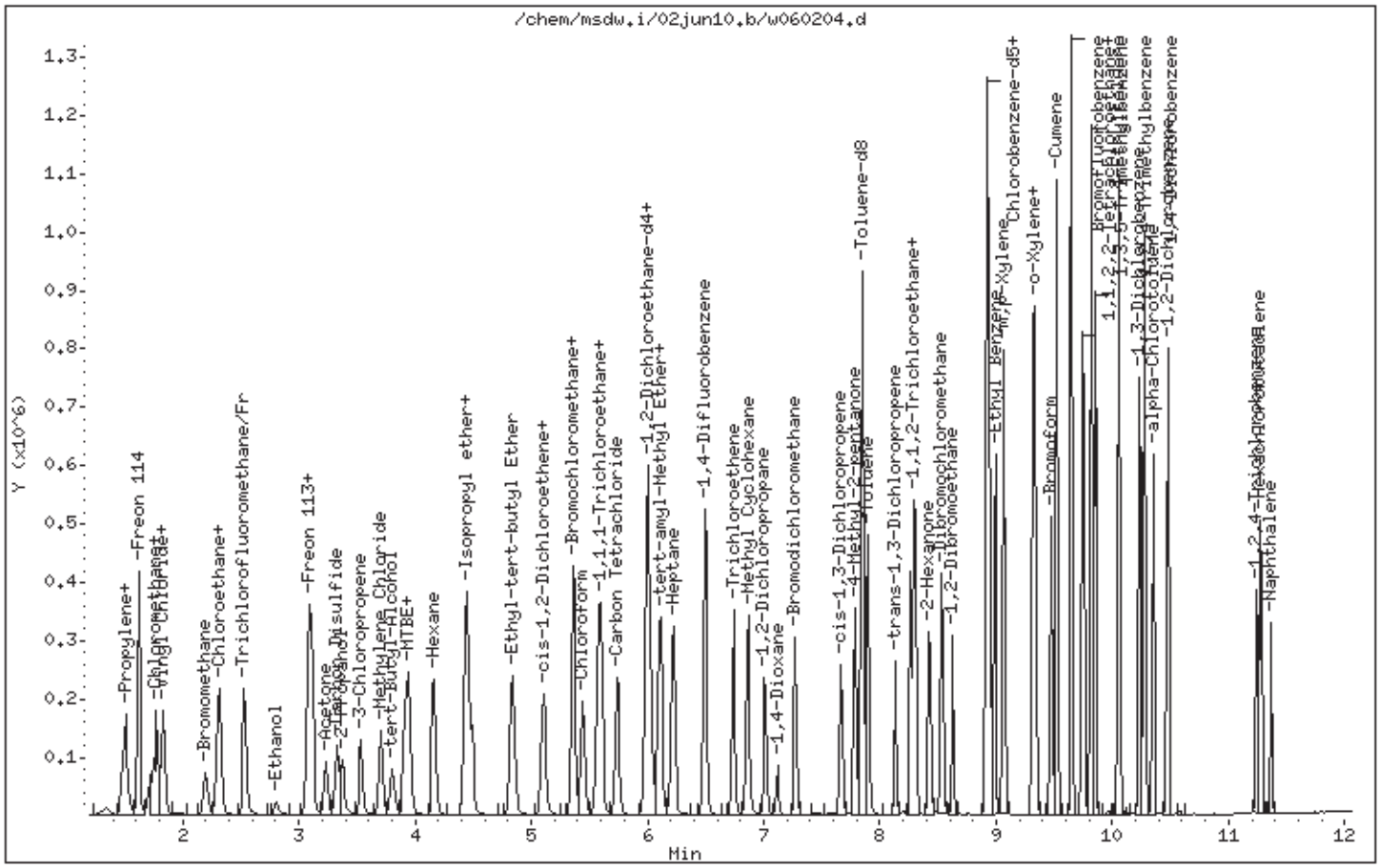
Instrument: msdw.i

Sample Info: 50ml,35997

Operator: LL

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msdw.i/02jun10.b/w060206.d
Lab Smp Id: 1830-5 Client Smp ID: TPHg CCV
Inj Date : 02-JUN-2010 11:03
Operator : LL Inst ID: msdw.i
Smp Info : 2.0ml,30839
Misc Info : TPHg CCV
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: AREA%
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS
1.271	9214	2958	0.321	0.057		
1.341	19347	5043	0.261	0.11		
1.635	24177	14060	0.582	0.14	5	Propylene
1.775	141178	79107	0.560	0.82	11	Butane
1.858	19650	7602	0.387	0.11		
1.970	13285	6428	0.484	0.08		
2.320	562067	241293	0.429	3.25	17	Isopentane
2.544	17486	7647	0.437	0.10		
2.586	239049	82814	0.346	1.38	27	Pentane
2.754	63747	32672	0.513	0.37		Cyclopropane, 1,1-dime
2.796	194555	65698	0.338	1.13	25	Ethanol
2.880	51400	17325	0.337	0.30		
2.936	145960	59469	0.407	0.84		2-Butene, 2-methyl-
3.062	65949	22373	0.339	0.38		Butane, 2,2-dimethyl-
3.593	343130	104859	0.306	1.99		Pentane, 2-methyl-
3.677	87902	20649	0.235	0.51	45	Methylene Chloride
3.859	148996	55117	0.370	0.86		Pentane, 3-methyl-
4.083	26112	9938	0.381	0.15		
4.167	101590	39999	0.394	0.59	52	Hexane
4.293	19929	8635	0.433	0.12		
4.349	38193	15117	0.396	0.22		
4.405	64660	26801	0.414	0.37		2-Pentene, 2-methyl-
4.489	18045	7411	0.411	0.10		
4.573	19993	8182	0.409	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
4.685	34935	14786	0.423	0.20			
4.727	69098	21743	0.315	0.40			Ether, heptyl hexyl
4.839	97539	38814	0.398	0.56			Cyclobutane, ethyl-
4.909	18745	6521	0.348	0.11			
5.370	793858	306054	0.386	4.60	*	73	Bromochloromethane
5.510	130345	53423	0.410	0.75		72	Tetrahydrofuran
5.608	125757	38208	0.304	0.73		76	Cyclohexane
5.720	169372	63014	0.372	0.98			Hexane, 3-methyl-
6.028	1098853	258896	0.236	6.36	$	88	1,2-Dichloroethane-d4
6.224	140586	54258	0.386	0.81		91	Heptane
6.406	37667	11395	0.303	0.22			
6.490	1187513	509107	0.429	6.87	*	93	1,4-Difluorobenzene
6.672	22305	6204	0.278	0.13			
6.854	126924	50645	0.399	0.73		97	Methyl Cyclohexane
6.910	82463	31972	0.388	0.48			
6.979	16627	7182	0.432	0.10			
7.049	16501	6786	0.411	0.10			
7.259	174146	82870	0.476	1.01			Pentane, 2,3,4-trimeth
7.371	227769	74777	0.328	1.32			Pentane, 2,3,3-trimeth
7.441	106806	43958	0.412	0.62			Hexane, 2,5-dimethyl-
7.567	107545	42432	0.395	0.62			Heptane, 3-methyl-
7.693	64542	32748	0.507	0.37			
7.749	18341	7232	0.394	0.11			
7.847	1403766	898202	0.640	8.13	$	108	Toluene-d8
7.903	1358072	771294	0.568	7.86		106	cis-1,3-Dichloropropen
8.155	33407	11943	0.357	0.19			
8.225	8670	4636	0.535	0.05			
8.295	9002	3830	0.425	0.05			
8.379	18181	8606	0.473	0.11			
8.687	37667	21258	0.564	0.22			
8.770	20465	13483	0.659	0.12			
8.924	1485162	1141619	0.769	8.60	*	126	Chlorobenzene-d5
8.994	291900	177551	0.608	1.69		129	Ethyl Benzene
9.064	1103134	898401	0.814	6.39		125	1,2-Dibromoethane
9.526	32332	22243	0.688	0.19			
9.568	30134	16293	0.541	0.17			
9.652	1700729	1253217	0.737	12.20	$	142	Bromofluorobenzene
9.764	90941	54484	0.599	0.53		145	Propylbenzene
9.806	520745	343331	0.659	3.01		147	4-Ethyltoluene
9.848	195507	120191	0.615	1.13	S-S	149	1,3,5-Trimethylbenzene
9.974	132804	89895	0.677	0.77			Benzene, 1-ethyl-3-met
10.058	540142	500198	0.926	3.13		153	1,2,4-Trimethylbenzene
10.114	29878	16270	0.545	0.17			
10.184	15579	11324	0.727	0.09			
10.240	33362	21786	0.653	0.19			
10.282	103845	88843	0.856	0.60			
10.393	166460	62452	0.375	0.96		162	alpha-Chlorotoluene
10.505	12520	11169	0.892	0.07			
10.547	50608	23166	0.458	0.29			
10.589	37048	28541	0.770	0.21			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.673	14768	5345	0.362	0.09	
10.813	44973	16880	0.375	0.26	
11.037	14460	6592	0.456	0.08	-al
11.247	11977	9728	0.812	0.07	
11.373	19593	15917	0.812	0.11	
	17275437	9711266		100.000	

Total Lab Blank IS/S area = 6066137

Sys. peaks = 236045

Total unknown % area = 19.080

$$\frac{17275437 - (236045 + 6066137)}{2467.20} = 4204.46$$

$$\%R = \left(\frac{4204.46}{4000}\right) \times 100 = 105\%$$

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005522A-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 01:09 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	99
Chloromethane	102
Vinyl Chloride	114
1,3-Butadiene	109
Bromomethane	109
Chloroethane	100
Freon 11	101
Ethanol	95
Freon 113	89
1,1-Dichloroethene	93
Acetone	100
2-Propanol	98
Carbon Disulfide	105
3-Chloropropene	102
Methylene Chloride	83
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	101
Hexane	100
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	99
Tetrahydrofuran	103
Chloroform	97
1,1,1-Trichloroethane	101
Cyclohexane	99
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	101
Benzene	103
1,2-Dichloroethane	101
Heptane	104
Trichloroethene	103
1,2-Dichloropropane	101
1,4-Dioxane	106
Bromodichloromethane	103
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	104
Toluene	99
trans-1,3-Dichloropropene	104

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005522A-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b052603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 01:09 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	103
Tetrachloroethene	99
2-Hexanone	106
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	108
Chlorobenzene	103
Ethyl Benzene	104
m,p-Xylene	104
o-Xylene	102
Styrene	113
Bromoform	106
Cumene	102
1,1,2,2-Tetrachloroethane	102
Propylbenzene	102
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	90
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 27-May-2010 01:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: ww
Data Type: MS DATA SampleType: LCS
SpikeList File: 200.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /var/chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 200ppbv>200ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
7 Dichlorodifluorome	200.00	210.16	105.08	70-130
9 Freon 114	200.00	198.76	99.38	70-130
12 Chloromethane	200.00	204.89	102.44	70-130
15 Vinyl Chloride	200.00	227.25	113.63	70-130
16 1,3-Butadiene	200.00	217.74	108.87	60-140
18 Bromomethane	200.00	217.73	108.86	70-130
19 Chloroethane	200.00	200.79	100.40	70-130
23 Trichlorofluoromet	200.00	201.62	100.81	70-130
30 Ethanol	200.00	190.73	95.37	60-140
34 Freon 113	200.00	178.62	89.31	70-130
36 1,1-Dichloroethene	200.00	185.29	92.64	70-130
39 Carbon Disulfide	200.00	210.46	105.23	60-140
38 Acetone	200.00	199.30	99.65	60-140
41 2-Propanol	200.00	195.83	97.91	60-140
42 3-Chloropropene	200.00	205.10	102.55	60-140
48 Methylene Chloride	200.00	166.90	83.45	70-130
50 MTBE	200.00	200.72	100.36	60-140
52 trans-1,2-Dichloro	200.00	202.74	101.37	60-140
55 Hexane	200.00	200.08	100.04	60-140
59 1,1-Dichloroethane	200.00	198.61	99.30	70-130
60 Vinyl Acetate	200.00	213.58	106.79	60-140
68 cis-1,2-Dichloroet	200.00	198.16	99.08	70-130
70 2-Butanone	200.00	202.84	101.42	60-140
74 Tetrahydrofuran	200.00	206.48	103.24	60-140
76 Chloroform	200.00	193.62	96.81	70-130
77 Cyclohexane	200.00	197.86	98.93	60-140
78 1,1,1-Trichloroeth	200.00	202.81	101.40	70-130
79 Carbon Tetrachlori	200.00	202.23	101.11	70-130
82 2,2,4-Trimethylpen	200.00	202.30	101.15	60-140
83 Benzene	200.00	205.26	102.63	70-130
89 1,2-Dichloroethane	200.00	201.78	100.89	70-130
93 Heptane	200.00	208.57	104.28	60-140
95 Trichloroethene	200.00	205.93	102.96	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
99	1,2-Dichloropropan	200.00	202.60	101.30	70-130
102	1,4-Dioxane	200.00	211.01	105.51	60-140
104	Bromodichlorometha	200.00	205.52	102.76	60-140
108	cis-1,3-Dichloropr	200.00	205.56	102.78	70-130
109	4-Methyl-2-pentano	200.00	208.42	104.21	60-140
111	Toluene	200.00	198.24	99.12	70-130
114	trans-1,3-Dichloro	200.00	207.34	103.67	70-130
115	1,1,2-Trichloroeth	200.00	205.37	102.69	70-130
116	Tetrachloroethene	200.00	198.23	99.12	70-130
120	2-Hexanone	200.00	211.74	105.87	60-140
121	Dibromochlorometha	200.00	214.15	107.07	60-140
124	1,2-Dibromoethane	200.00	215.72	107.86	70-130
127	Chlorobenzene	200.00	205.66	102.83	70-130
128	Ethyl Benzene	200.00	208.76	104.38	70-130
131	m,p-Xylene	200.00	209.07	104.53	70-130
132	o-Xylene	200.00	203.52	101.76	70-130
134	Styrene	200.00	225.42	112.71	70-130
136	Bromoform	200.00	212.64	106.32	60-140
138	Cumene	200.00	205.10	102.55	60-140
142	1,1,2,2-Tetrachlor	200.00	204.18	102.09	70-130
143	Propylbenzene	200.00	204.34	102.17	60-140
147	4-Ethyltoluene	200.00	208.88	104.44	60-140
149	1,3,5-Trimethylben	200.00	214.78	107.39	70-130
152	1,2,4-Trimethylben	200.00	203.86	101.93	70-130
156	1,3-Dichlorobenzen	200.00	202.06	101.03	70-130
159	1,4-Dichlorobenzen	200.00	204.63	102.31	70-130
161	alpha-Chlorotoluen	200.00	219.83	109.92	70-130
163	1,2-Dichlorobenzen	200.00	207.43	103.72	70-130
169	1,2,4-Trichloroben	200.00	181.55	90.78	70-130
170	Hexachlorobutadien	200.00	179.76	89.88	70-130
5	Propylene	200.00	194.75	97.38	60-140
13	Butane	200.00	222.48	111.24	70-130
20	Isopentane	200.00	212.33	106.17	70-130
97	Methyl Cyclohexane	200.00	203.82	101.91	70-130
49	tert-Butyl-Alcohol	200.00	201.36	100.68	60-140
58	Isopropyl ether	200.00	200.09	100.04	60-140
64	Ethyl-tert-butyl E	200.00	201.07	100.54	60-140
88	tert-amyl-Methyl E	200.00	200.69	100.34	60-140
171	Naphthalene	200.00	243.91	121.95	60-140

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 86	1,2-Dichloroethane	400.00	395.38	98.84	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 110 Toluene-d8	400.00	401.48	100.37	70-130
$ 139 Bromofluorobenzene	400.00	410.14	102.53	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052603.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 27-MAY-2010 01:09
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #1936-143
Misc Info : 200ppbv>200ppbv
Comment :
Method : /var/chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 27-May-2010 00:59 edanek Quant Type: ISTD
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 75 Bromochloromethane					CAS #: 74-97-5		
4.909	4.909 (1.000)	130	197332	400.000		80.00- 120.00	100.00
4.909	4.909 (1.000)	128	152603			46.65- 106.65	77.33
4.895	4.909 (1.000)	49	204067			72.67- 132.67	103.41
* 94 1,4-Difluorobenzene					CAS #: 540-36-3		
6.014	6.014 (1.000)	114	720359	400.000		80.00- 120.00	100.00
6.014	6.014 (1.000)	88	101102			0.00- 44.13	14.03
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
9.302	9.302 (1.000)	117	678249	400.000		80.00- 120.00	100.00
9.302	9.302 (1.000)	82	323500			0.00- 30.00	47.70
$ 86 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.552	5.552 (1.131)	65	202594	395.379	395.38	80.00- 120.00	100.00
5.552	5.552 (1.131)	67	112281			26.01- 86.01	55.42
$ 110 Toluene-d8					CAS #: 2037-26-5		
7.819	7.819 (1.300)	98	696348	401.485	401.48	80.00- 120.00	100.00
7.819	7.819 (1.300)	70	69927			0.00- 39.95	10.04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 110 Toluene-d8 (continued)							
7.819	7.819 (1.300)	100	521086			44.59- 104.59	74.83
$ 139 Bromofluorobenzene					CAS #: 460-00-4		
10.211	10.212 (1.098)	174	428881	410.139	410.14	80.00- 120.00	100.00
10.211	10.212 (1.098)	95	475939			79.27- 139.27	110.97
10.211	10.212 (1.098)	176	414357			66.78- 126.78	96.61
5 Propylene					CAS #: 115-07-1		
1.299	1.313 (0.265)	41	77014	194.753	194.75	80.00- 120.00	100.00
1.299	1.313 (0.265)	42	52364			35.59- 95.59	67.99
1.299	1.313 (0.265)	39	56210			41.94- 101.94	72.99
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.327	1.355 (0.270)	85	318823	210.157	210.16	80.00- 120.00	100.00
1.327	1.341 (0.270)	87	101918			2.96- 62.96	31.97
9 Freon 114					CAS #: 76-14-2		
1.425	1.439 (0.290)	135	265355	198.757	198.76	80.00- 120.00	100.00
1.425	1.439 (0.290)	137	84832			2.03- 62.03	31.97
12 Chloromethane					CAS #: 74-87-3		
1.495	1.509 (0.304)	50	111129	204.888	204.89	80.00- 120.00	100.00
1.495	1.509 (0.304)	52	35730			0.98- 60.98	32.15
13 Butane					CAS #: 106-97-8		
1.565	1.579 (0.319)	58	30707	222.484	222.48	80.00- 120.00	100.00
1.551	1.579 (0.316)	43	208925			679.89- 739.89	680.38
15 Vinyl Chloride					CAS #: 75-01-4		
1.593	1.607 (0.324)	62	131997	227.253	227.25	80.00- 120.00	100.00
1.593	1.607 (0.324)	64	41733			2.41- 62.41	31.62
16 1,3-Butadiene					CAS #: 106-99-0		
1.607	1.621 (0.327)	54	92852	217.737	217.74	80.00- 120.00	100.00
1.607	1.621 (0.327)	39	97517			74.77- 134.77	105.02
18 Bromomethane					CAS #: 74-83-9		
1.914	1.928 (0.390)	94	114672	217.729	217.73	80.00- 120.00	100.00
1.914	1.928 (0.390)	96	107473			63.59- 123.59	93.72
19 Chloroethane					CAS #: 75-00-3		
1.998	2.026 (0.407)	64	63368	200.790	200.79	80.00- 120.00	100.00
1.998	2.026 (0.407)	66	19237			0.56- 60.56	30.36
1.998	2.026 (0.407)	49	16674			0.00- 55.58	26.31

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
20 Isopentane					CAS #: 78-78-4		
2.026	2.040 (0.413)	43	143203	212.332	212.33	80.00- 120.00	100.00
2.026	2.040 (0.413)	57	96364			38.52- 98.52	67.29
2.026	2.040 (0.413)	72	12556			0.00- 39.10	8.77
23 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.222	2.236 (0.453)	101	373547	201.616	201.62	80.00- 120.00	100.00
2.222	2.236 (0.453)	103	242333			34.41- 94.41	64.87
30 Ethanol					CAS #: 64-17-5		
2.488	2.502 (0.507)	45	36550	190.735	190.73	80.00- 120.00	100.00
2.488	2.502 (0.507)	43	8570			0.00- 54.62	23.45
2.488	2.502 (0.507)	46	18252			13.07- 73.07	49.94
34 Freon 113					CAS #: 76-13-1		
2.726	2.740 (0.555)	151	226653	178.620	178.62	80.00- 120.00	100.00
2.726	2.740 (0.555)	153	143768			33.79- 93.79	63.43
2.712	2.726 (0.552)	101	267292			87.74- 147.74	117.93
36 1,1-Dichloroethene					CAS #: 75-35-4		
2.740	2.754 (0.558)	61	170601	185.288	185.29	80.00- 120.00	100.00
2.740	2.754 (0.558)	96	118007			39.82- 99.82	69.17
2.740	2.754 (0.558)	98	76820			15.14- 75.14	45.03
38 Acetone					CAS #: 67-64-1		
2.880	2.894 (0.587)	58	54371	199.297	199.30	80.00- 120.00	100.00
2.880	2.894 (0.587)	43	166175			293.27- 353.27	305.63
39 Carbon Disulfide					CAS #: 75-15-0		
2.936	2.950 (0.598)	76	343409	210.457	210.46	80.00- 120.00	100.00
41 2-Propanol					CAS #: 67-63-0		
3.006	3.034 (0.612)	45	157168	195.827	195.83	80.00- 120.00	100.00
3.020	3.034 (0.615)	43	40475			0.00- 54.42	25.75
3.020	3.034 (0.615)	59	5946			0.00- 33.98	3.78
42 3-Chloropropene					CAS #: 107-05-1		
3.146	3.160 (0.641)	76	50088	205.103	205.10	80.00- 120.00	100.00
3.146	3.160 (0.641)	41	126905			212.67- 272.67	253.36
48 Methylene Chloride					CAS #: 75-09-2		
3.300	3.314 (0.672)	49	122922	166.898	166.90	80.00- 120.00	100.00
3.314	3.314 (0.675)	84	104346			51.49- 111.49	84.89
3.300	3.314 (0.672)	51	37406			0.00- 59.35	30.43
49 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.425	3.426 (0.698)	59	170748	201.358	201.36	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
49 tert-Butyl-Alcohol (continued)							
3.411	3.426 (0.695)	41	74835			10.49- 70.49	43.83
3.411	3.426 (0.695)	57	17861			0.00- 41.04	10.46
50 MTBE					CAS #: 1634-04-4		
3.509	3.510 (0.715)	73	292480	200.723	200.72	80.00- 120.00	100.00
3.495	3.510 (0.712)	57	67170			0.00- 52.90	22.97
3.495	3.510 (0.712)	41	82980			0.00- 58.33	28.37
52 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.537	3.538 (0.721)	96	144362	202.735	202.74	80.00- 120.00	100.00
3.523	3.538 (0.718)	61	170963			88.25- 148.25	118.43
3.537	3.538 (0.721)	98	91826			34.26- 94.26	63.61
55 Hexane					CAS #: 110-54-3		
3.733	3.747 (0.761)	57	192442	200.083	200.08	80.00- 120.00	100.00
3.733	3.733 (0.761)	43	122383			32.76- 92.76	63.59
3.733	3.747 (0.761)	86	41423			0.00- 51.08	21.52
58 Isopropyl ether					CAS #: 108-20-3		
4.013	4.013 (0.818)	45	418800	200.088	200.09	80.00- 120.00	100.00
4.013	4.013 (0.818)	87	127004			1.02- 61.02	30.33
4.013	4.013 (0.818)	59	48159			0.00- 41.84	11.50
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.013	4.027 (0.818)	63	214960	198.607	198.61	80.00- 120.00	100.00
4.013	4.027 (0.818)	65	65779			1.45- 61.45	30.60
60 Vinyl Acetate					CAS #: 108-05-4		
4.069	4.083 (0.829)	86	32352	213.577	213.58	80.00- 120.00	100.00
4.069	4.083 (0.829)	43	306925			969.62-1029.62	948.70
4.069	4.083 (0.829)	42	28930			65.34- 125.34	89.42
64 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.391	4.391 (0.895)	59	346131	201.071	201.07	80.00- 120.00	100.00
4.391	4.391 (0.895)	87	159949			17.31- 77.31	46.21
4.391	4.391 (0.895)	41	84995			0.00- 54.29	24.56
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.643	4.643 (0.946)	61	157935	198.165	198.16	80.00- 120.00	100.00
4.643	4.643 (0.946)	96	141631			59.59- 119.59	89.68
4.643	4.643 (0.946)	98	88922			29.04- 89.04	56.30
70 2-Butanone					CAS #: 78-93-3		
4.685	4.699 (0.954)	72	62123	202.838	202.84	80.00- 120.00	100.00
4.685	4.685 (0.954)	43	231469			332.65- 392.65	372.60

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
4.685	4.685 (0.954)	57	17426			0.00- 59.83	28.05
74 Tetrahydrofuran					CAS #: 109-99-9		
4.895	4.895 (0.997)	42	136111	206.481	206.48	80.00- 120.00	100.00
4.895	4.895 (0.997)	71	55212			11.27- 71.27	40.56
4.895	4.895 (0.997)	72	59530			12.35- 72.35	43.74
76 Chloroform					CAS #: 67-66-3		
4.979	4.993 (1.014)	83	256418	193.616	193.62	80.00- 120.00	100.00
4.979	4.993 (1.014)	85	171351			36.77- 96.77	66.82
77 Cyclohexane					CAS #: 110-82-7		
5.077	5.091 (1.034)	84	187499	197.865	197.86	80.00- 120.00	100.00
5.077	5.091 (1.034)	56	196012			72.79- 132.79	104.54
5.077	5.077 (1.034)	41	109807			28.84- 88.84	58.56
78 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.118	5.119 (1.043)	97	277137	202.806	202.81	80.00- 120.00	100.00
5.118	5.119 (1.043)	99	174075			34.60- 94.60	62.81
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.244	5.245 (1.068)	119	307234	202.226	202.23	80.00- 120.00	100.00
5.244	5.245 (1.068)	117	321451			72.17- 132.17	104.63
82 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.496	5.510 (1.120)	57	615076	202.304	202.30	80.00- 120.00	100.00
5.496	5.510 (1.120)	56	212972			3.91- 63.91	34.63
5.496	5.496 (1.120)	41	160688			0.00- 55.28	26.12
83 Benzene					CAS #: 71-43-2		
5.510	5.524 (0.916)	78	392227	205.259	205.26	80.00- 120.00	100.00
5.510	5.524 (0.916)	77	91366			0.00- 53.87	23.29
88 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.608	5.622 (1.143)	73	302357	200.686	200.69	80.00- 120.00	100.00
5.622	5.622 (1.145)	87	77692			0.00- 56.41	25.70
5.608	5.622 (1.143)	55	128051			11.20- 71.20	42.35
89 1,2-Dichloroethane					CAS #: 107-06-2		
5.636	5.636 (0.937)	62	164923	201.782	201.78	80.00- 120.00	100.00
5.636	5.636 (0.937)	64	53500			2.69- 62.69	32.44
93 Heptane					CAS #: 142-82-5		
5.734	5.734 (0.953)	71	142002	208.566	208.57	80.00- 120.00	100.00
5.734	5.734 (0.953)	43	222007			126.09- 186.09	156.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
93 Heptane (continued)							
5.734	5.734 (0.953)	100	54651			9.69- 69.69	38.49
95 Trichloroethene					CAS #: 79-01-6		
6.252	6.252 (1.040)	95	186674	205.928	205.93	80.00- 120.00	100.00
6.252	6.252 (1.040)	130	216941			86.69- 146.69	116.21
6.252	6.252 (1.040)	97	120439			35.75- 95.75	64.52
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.364	6.364 (1.058)	83	249278	203.820	203.82	80.00- 120.00	100.00
6.364	6.364 (1.058)	98	131690			23.52- 83.52	52.83
6.364	6.364 (1.058)	55	174233			39.66- 99.66	69.90
99 1,2-Dichloropropane					CAS #: 78-87-5		
6.560	6.574 (1.091)	63	134831	202.597	202.60	80.00- 120.00	100.00
6.560	6.574 (1.091)	62	95788			39.95- 99.95	71.04
6.560	6.574 (1.091)	41	79054			28.93- 88.93	58.63
102 1,4-Dioxane					CAS #: 123-91-1		
6.700	6.700 (1.114)	88	97288	211.014	211.01	80.00- 120.00	100.00
6.700	6.700 (1.114)	58	57334			30.60- 90.60	58.93
6.700	6.700 (1.114)	57	18651			0.00- 49.82	19.17
104 Bromodichloromethane					CAS #: 75-27-4		
6.895	6.910 (1.147)	83	264646	205.522	205.52	80.00- 120.00	100.00
6.895	6.910 (1.147)	85	176030			35.13- 95.13	66.52
108 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.539	7.539 (1.254)	75	185384	205.565	205.56	80.00- 120.00	100.00
7.539	7.539 (1.254)	77	58864			1.79- 61.79	31.75
7.539	7.539 (1.254)	39	89377			16.80- 76.80	48.21
109 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.763	7.777 (1.291)	85	49940	208.426	208.42	80.00- 120.00	100.00
7.763	7.763 (1.291)	43	267020			496.17- 556.17	534.68
7.763	7.763 (1.291)	58	110682			186.00- 246.00	221.63
111 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.314)	91	503619	198.240	198.24	80.00- 120.00	100.00
7.903	7.903 (1.314)	92	295383			29.53- 89.53	58.65
114 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.281	8.281 (0.890)	75	187046	207.341	207.34	80.00- 120.00	100.00
8.281	8.281 (0.890)	77	61945			1.97- 61.97	33.12
8.281	8.281 (0.890)	39	86412			15.03- 75.03	46.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
115 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.463	8.463 (0.910)	97	179877	205.372	205.37	80.00- 120.00	100.00
8.463	8.463 (0.910)	99	110584			31.59- 91.59	61.48
8.463	8.463 (0.910)	83	145457			50.26- 110.26	80.86
116 Tetrachloroethene					CAS #: 127-18-4		
8.477	8.477 (0.911)	166	285997	198.230	198.23	80.00- 120.00	100.00
8.477	8.477 (0.911)	129	207317			42.82- 102.82	72.49
8.477	8.477 (0.911)	131	200392			41.15- 101.15	70.07
120 2-Hexanone					CAS #: 591-78-6		
8.714	8.714 (0.937)	58	148400	211.741	211.74	80.00- 120.00	100.00
8.714	8.714 (0.937)	43	270715			152.98- 212.98	182.42
8.714	8.714 (0.937)	100	38258			0.00- 56.44	25.78
121 Dibromochloromethane					CAS #: 124-48-1		
8.812	8.812 (0.947)	129	333257	214.149	214.15	80.00- 120.00	100.00
8.812	8.812 (0.947)	127	259568			47.23- 107.23	77.89
124 1,2-Dibromoethane					CAS #: 106-93-4		
8.924	8.924 (0.959)	107	301511	215.724	215.72	80.00- 120.00	100.00
8.924	8.924 (0.959)	109	279521			64.42- 124.42	92.71
127 Chlorobenzene					CAS #: 108-90-7		
9.330	9.330 (1.003)	112	460765	205.660	205.66	80.00- 120.00	100.00
9.330	9.330 (1.003)	114	148564			2.13- 62.13	32.24
9.330	9.330 (1.003)	77	224825			18.76- 78.76	48.79
128 Ethyl Benzene					CAS #: 100-41-4		
9.400	9.400 (1.011)	106	235411	208.761	208.76	80.00- 120.00	100.00
9.400	9.400 (1.011)	91	690682			262.66- 322.66	293.39
131 m,p-Xylene					CAS #: 108-38-3		
9.498	9.512 (1.021)	106	294698	209.069	209.07	80.00- 120.00	100.00
9.498	9.498 (1.021)	91	546125			157.05- 217.05	185.32
132 o-Xylene					CAS #: 95-47-6		
9.820	9.820 (1.056)	106	274133	203.519	203.52	80.00- 120.00	100.00
9.820	9.820 (1.056)	91	539905			165.55- 225.55	196.95
134 Styrene					CAS #: 100-42-5		
9.834	9.834 (1.057)	104	437248	225.425	225.42	80.00- 120.00	100.00
9.834	9.834 (1.057)	78	191773			14.40- 74.40	43.86
136 Bromoform					CAS #: 75-25-2		
9.988	9.988 (1.074)	173	314419	212.646	212.64	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
136 Bromoform (continued)							
9.988	9.988 (1.074)	171	163996			21.29- 81.29	52.16
138 Cumene					CAS #: 98-82-8		
10.072	10.072 (1.083)	105	807472	205.100	205.10	80.00- 120.00	100.00
10.072	10.072 (1.083)	120	231619			0.00- 58.36	28.68
10.072	10.072 (1.083)	51	63976			0.00- 38.10	7.92
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.337	10.338 (1.111)	83	381137	204.176	204.18	80.00- 120.00	100.00
10.337	10.338 (1.111)	85	252325			36.43- 96.43	66.20
143 Propylbenzene					CAS #: 103-65-1		
10.351	10.352 (1.113)	91	939167	204.340	204.34	80.00- 120.00	100.00
10.351	10.352 (1.113)	120	243708			0.00- 56.26	25.95
10.351	10.352 (1.113)	105	37761			0.00- 34.01	4.02
147 4-Ethyltoluene					CAS #: 622-96-8		
10.421	10.421 (1.120)	105	864375	208.885	208.88	80.00- 120.00	100.00
10.421	10.421 (1.120)	120	272333			1.65- 61.65	31.51
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.463	10.463 (1.125)	105	734227	214.777	214.78	80.00- 120.00	100.00
10.463	10.463 (1.125)	120	374211			21.07- 81.07	50.97
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.701	10.701 (1.150)	105	642753	203.860	203.86	80.00- 120.00	100.00
10.701	10.701 (1.150)	120	308951			19.54- 79.54	48.07
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.883	10.883 (1.170)	146	509707	202.058	202.06	80.00- 120.00	100.00
10.883	10.883 (1.170)	148	323430			33.28- 93.28	63.45
10.883	10.883 (1.170)	111	190114			8.11- 68.11	37.30
159 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.939	10.939 (1.176)	146	516663	204.628	204.63	80.00- 120.00	100.00
10.939	10.939 (1.176)	148	333584			34.27- 94.27	64.57
10.939	10.939 (1.176)	111	184689			7.14- 67.14	35.75
161 alpha-Chlorotoluene					CAS #: 100-44-7		
11.023	11.023 (1.185)	91	376215	219.831	219.83	80.00- 120.00	100.00
11.023	11.023 (1.185)	126	91662			0.00- 54.00	24.36
163 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.149	11.149 (1.199)	146	483083	207.434	207.43	80.00- 120.00	100.00
11.149	11.149 (1.199)	148	309863			34.25- 94.25	64.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2-Dichlorobenzene (continued)							
11.149	11.149 (1.199)	111	183797			8.11- 68.11	38.05
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.974	11.975 (1.287)	180	245057	181.555	181.55	80.00- 120.00	100.00
11.974	11.975 (1.287)	182	236630			65.30- 125.30	96.56
170 Hexachlorobutadiene					CAS #: 87-68-3		
12.030	12.031 (1.293)	225	225214	179.763	179.76	80.00- 120.00	100.00
12.030	12.031 (1.293)	223	138906			31.86- 91.86	61.68
171 Naphthalene					CAS #: 91-20-3		
12.114	12.114 (1.302)	128	370694	243.908	243.91	80.00- 120.00	100.00
12.114	12.114 (1.302)	127	46180			0.00- 42.15	12.46

Report Date: 27-May-2010 01:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdb.i
Lab File ID: b052603.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ww
Method File: /var/chem/msdb.i/26may10.b/b1050504c.m
Misc Info: 200ppbv>200ppbv

Calibration Date: 26-MAY-2010
Calibration Time: 23:57
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 6

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	213867	128320	299414	197332	-7.73
94 1,4-Difluorobenze	789670	473802	1105538	720359	-8.78
125 Chlorobenzene-d5	751322	450793	1051851	678249	-9.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
75 Bromochloromethan	4.91	4.58	5.24	4.91	0.00
94 1,4-Difluorobenze	6.01	5.68	6.34	6.01	0.00
125 Chlorobenzene-d5	9.30	8.97	9.63	9.30	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/msdb.i/26may10.b/b052603.d

Date : 27-MAY-2010 01:09

Client ID: LCS

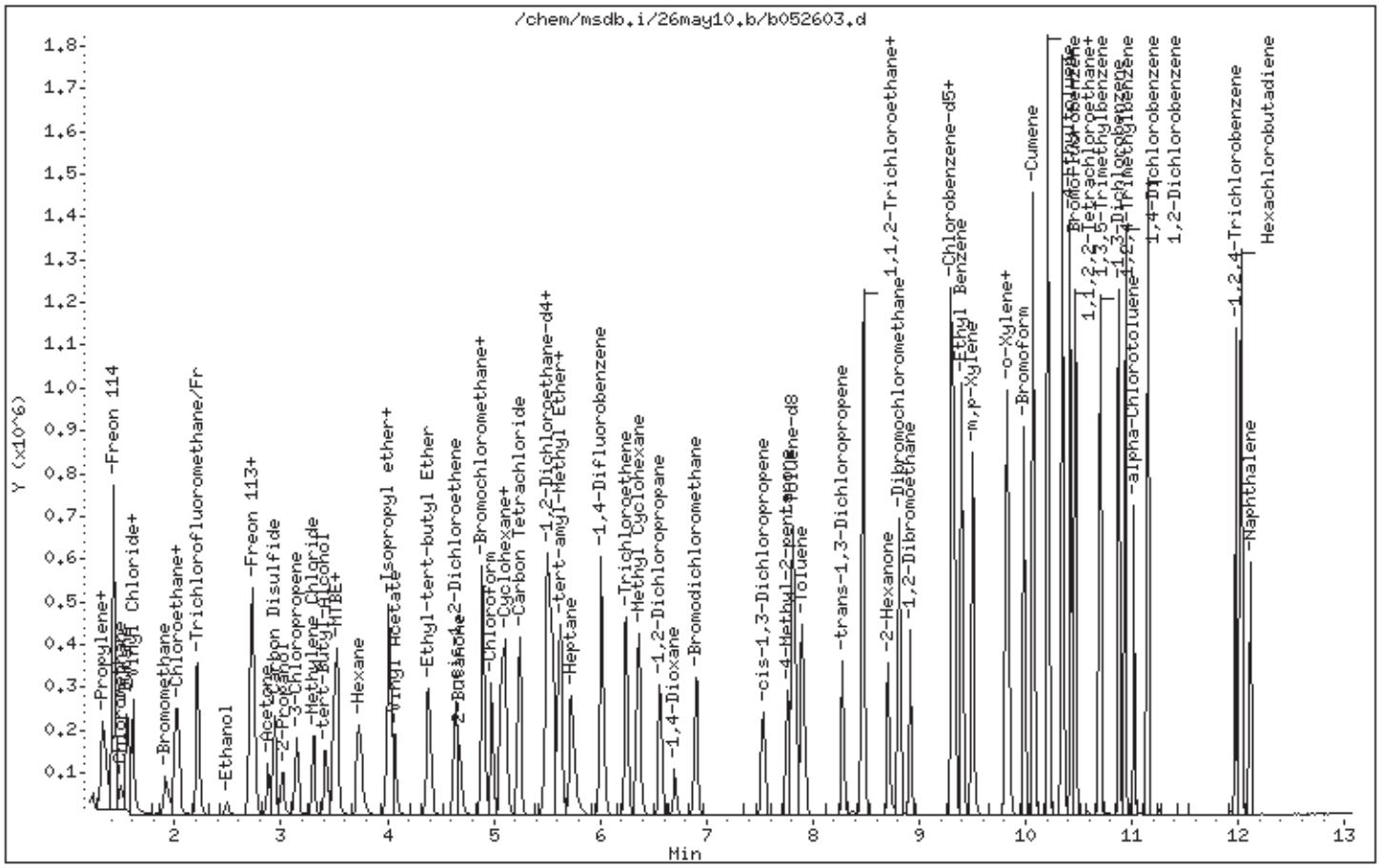
Instrument: msdb.i

Sample Info: 50mL #1936-143

Operator: ww

Column phase: RTx-624

Column diameter: 0.53



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005522A-14B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 10:36 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	98
Chloromethane	94
Vinyl Chloride	97
1,3-Butadiene	94
Bromomethane	102
Chloroethane	94
Freon 11	98
Ethanol	78
Freon 113	88
1,1-Dichloroethene	82
Acetone	90
2-Propanol	80
Carbon Disulfide	95
3-Chloropropene	91
Methylene Chloride	82
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	97
Hexane	88
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	90
Tetrahydrofuran	88
Chloroform	95
1,1,1-Trichloroethane	93
Cyclohexane	93
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	90
Benzene	93
1,2-Dichloroethane	92
Heptane	92
Trichloroethene	81
1,2-Dichloropropane	93
1,4-Dioxane	95
Bromodichloromethane	93
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	90
Toluene	90
trans-1,3-Dichloropropene	93

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005522A-14B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**w060205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 10:36 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	96
Tetrachloroethene	98
2-Hexanone	88
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	98
m,p-Xylene	97
o-Xylene	96
Styrene	96
Bromoform	99
Cumene	98
1,1,2,2-Tetrachloroethane	100
Propylbenzene	98
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	112
1,2,4-Trichlorobenzene	129
Hexachlorobutadiene	136 Q
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02jun10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1936-141 Client Smp ID: LCS
Level: LOW Operator: LL
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: LCS

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
7 Dichlorodifluorome	200.00	192.20	96.10	70-130
9 Freon 114	200.00	195.58	97.79	70-130
10 Chloromethane	200.00	187.37	93.69	70-130
12 Vinyl Chloride	200.00	194.43	97.22	70-130
13 1,3-Butadiene	200.00	189.03	94.52	60-140
15 Bromomethane	200.00	203.39	101.69	70-130
16 Chloroethane	200.00	187.52	93.76	70-130
19 Trichlorofluoromet	200.00	196.59	98.29	70-130
25 Ethanol	200.00	156.52	78.26	60-140
32 Freon 113	200.00	176.88	88.44	70-130
33 1,1-Dichloroethene	200.00	164.49	82.25	70-130
36 Carbon Disulfide	200.00	189.30	94.65	60-140
34 Acetone	200.00	180.33	90.16	60-140
37 2-Propanol	200.00	160.83	80.41	60-140
38 3-Chloropropene	200.00	181.26	90.63	60-140
45 Methylene Chloride	200.00	165.17	82.59	70-130
48 MTBE	200.00	180.24	90.12	60-140
49 trans-1,2-Dichloro	200.00	194.47	97.24	60-140
52 Hexane	200.00	176.44	88.22	60-140
55 1,1-Dichloroethane	200.00	180.06	90.03	70-130
68 cis-1,2-Dichloroet	200.00	180.69	90.35	70-130
70 2-Butanone	200.00	184.62	92.31	60-140
72 Tetrahydrofuran	200.00	175.09	87.55	60-140
74 Chloroform	200.00	189.95	94.97	70-130
76 Cyclohexane	200.00	185.74	92.87	60-140
77 1,1,1-Trichloroeth	200.00	186.64	93.32	70-130
58 Vinyl Acetate	200.00	177.78	88.89	70-130
79 Carbon Tetrachlori	200.00	190.45	95.23	70-130
84 2,2,4-Trimethylpen	200.00	179.25	89.62	60-140
86 Benzene	200.00	185.62	92.81	70-130
90 1,2-Dichloroethane	200.00	185.08	92.54	70-130
91 Heptane	200.00	183.72	91.86	60-140
95 Trichloroethene	200.00	162.84	81.42	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98	1,2-Dichloropropan	200.00	185.88	92.94	70-130
102	1,4-Dioxane	200.00	190.73	95.37	60-140
104	Bromodichlorometha	200.00	186.71	93.36	60-140
106	cis-1,3-Dichloropr	200.00	186.71	93.36	70-130
107	4-Methyl-2-pentano	200.00	180.38	90.19	60-140
114	Toluene	200.00	179.90	89.95	70-130
117	trans-1,3-Dichloro	200.00	186.28	93.14	70-130
118	1,1,2-Trichloroeth	200.00	191.55	95.78	70-130
119	Tetrachloroethene	200.00	195.21	97.61	70-130
122	2-Hexanone	200.00	176.48	88.24	60-140
124	Dibromochlorometha	200.00	198.34	99.17	60-140
125	1,2-Dibromoethane	200.00	204.52	102.26	70-130
127	Chlorobenzene	200.00	198.44	99.22	70-130
129	Ethyl Benzene	200.00	196.50	98.25	70-130
132	m,p-Xylene	200.00	194.03	97.01	70-130
134	o-Xylene	200.00	191.01	95.50	70-130
135	Styrene	200.00	192.48	96.24	70-130
139	Bromoform	200.00	198.52	99.26	60-140
140	Cumene	200.00	196.81	98.40	60-140
143	1,1,2,2-Tetrachlor	200.00	199.14	99.57	70-130
145	Propylbenzene	200.00	196.50	98.25	60-140
147	4-Ethyltoluene	200.00	211.64	105.82	70-130
149	1,3,5-Trimethylben	200.00	208.18	104.09	70-130
153	1,2,4-Trimethylben	200.00	213.09	106.55	70-130
157	1,3-Dichlorobenzen	200.00	215.65	107.82	70-130
158	1,4-Dichlorobenzen	200.00	219.95	109.98	70-130
162	alpha-Chlorotoluen	200.00	208.33	104.16	70-130
165	1,2-Dichlorobenzen	200.00	224.64	112.32	70-130
169	1,2,4-Trichloroben	200.00	258.76	129.38	70-130
170	Hexachlorobutadien	200.00	271.94	135.97*	70-130
5	Propylene	200.00	171.05	85.52	60-140
171	Naphthalene	200.00	210.10	105.05	60-140
46	tert-Butyl-Alcohol	200.00	160.55	80.28	60-140
53	Isopropyl ether	200.00	189.46	94.73	60-140
63	Ethyl-tert-butyl E	200.00	195.74	97.87	60-140
89	tert-amyl-Methyl E	200.00	195.62	97.81	60-140
11	Butane	200.00	177.19	88.59	70-130
17	Isopentane	200.00	183.39	91.70	70-130
97	Methyl Cyclohexane	200.00	189.00	94.50	70-130

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 88	1,2-Dichloroethane	400.00	360.56	90.14	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 108 Toluene-d8	400.00	395.09	98.77	70-130
$ 142 Bromofluorobenzene	400.00	408.34	102.09	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/02jun10.b/w060205.d
Lab Smp Id: 1936-141 Client Smp ID: LCS
Inj Date : 02-JUN-2010 10:36
Operator : LL Inst ID: msdw.i
Smp Info : 50ml,907
Misc Info : LCS
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: ISTD
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.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
* 73 Bromochloromethane					CAS #: 74-97-5		
5.370	5.370 (1.000)	130	142839	400.000		80.00- 120.00	100.00
5.370	5.370 (1.000)	128	112392			0.00- 30.00	78.68
5.356	5.356 (1.000)	49	194180			107.67- 167.67	135.94
* 93 1,4-Difluorobenzene					CAS #: 540-36-3		
6.490	6.490 (1.000)	114	538326	400.000		80.00- 120.00	100.00
6.490	6.490 (1.000)	88	70096			0.00- 30.00	13.02
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
8.924	8.924 (1.000)	117	520525	400.000		80.00- 120.00	100.00
8.924	8.924 (1.000)	82	249669			0.00- 30.00	47.96
$ 88 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.028	6.028 (1.122)	65	173076	360.564	360.56	80.00- 120.00	100.00
6.028	6.028 (1.122)	67	90418			0.00- 30.00	52.24
$ 108 Toluene-d8					CAS #: 2037-26-5		
7.847	7.847 (1.209)	98	513768	395.090	395.09	80.00- 120.00	100.00
7.847	7.847 (1.209)	70	52488			0.00- 30.00	10.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 108 Toluene-d8 (continued)							
7.847	7.847 (1.209)	100	360345			0.00- 30.00	70.14
$ 142 Bromofluorobenzene					CAS #: 460-00-4		
9.652	9.652 (1.082)	174	297207	408.341	408.34	80.00- 120.00	100.00
9.652	9.652 (1.082)	95	337212			84.13- 144.13	113.46
9.652	9.652 (1.082)	176	286534			66.07- 126.07	96.41
5 Propylene					CAS #: 115-07-1		
1.481	1.481 (0.276)	41	52266	171.047	171.05	80.00- 120.00	100.00
1.481	1.481 (0.276)	42	35565			0.00- 30.00	68.05
1.481	1.481 (0.276)	39	39437			0.00- 30.00	75.45
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.509	1.509 (0.281)	85	183855	192.196	192.20	80.00- 120.00	100.00
1.509	1.509 (0.281)	87	58784			0.00- 30.00	31.97
9 Freon 114					CAS #: 76-14-2		
1.621	1.620 (0.302)	135	150423	195.580	195.58	80.00- 120.00	100.00
1.621	1.620 (0.302)	137	47158			0.00- 30.00	31.35
10 Chloromethane					CAS #: 74-87-3		
1.705	1.718 (0.317)	50	81288	187.375	187.37	80.00- 120.00	100.00
1.705	1.718 (0.317)	52	24338			0.00- 30.00	29.94
11 Butane					CAS #: 106-97-8		
1.775	1.774 (0.330)	58	19752	177.188	177.19	80.00- 120.00	100.00
1.775	1.774 (0.330)	43	126783			0.00- 30.00	641.86
12 Vinyl Chloride					CAS #: 75-01-4		
1.817	1.816 (0.338)	62	83958	194.434	194.43	80.00- 120.00	100.00
1.817	1.816 (0.338)	64	26311			0.00- 30.00	31.34
13 1,3-Butadiene					CAS #: 106-99-0		
1.831	1.830 (0.341)	54	69598	189.031	189.03	80.00- 120.00	100.00
1.831	1.830 (0.341)	39	65942			0.00- 30.00	94.75
15 Bromomethane					CAS #: 74-83-9		
2.194	2.194 (0.409)	94	62952	203.389	203.39	80.00- 120.00	100.00
2.194	2.194 (0.409)	96	58554			0.00- 30.00	93.02
16 Chloroethane					CAS #: 75-00-3		
2.292	2.292 (0.427)	64	42163	187.519	187.52	80.00- 120.00	100.00
2.292	2.292 (0.427)	49	12485			0.00- 30.00	29.61
2.292	2.292 (0.427)	66	12605			0.00- 30.00	29.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
17 Isopentane					CAS #: 78-78-4		
2.320	2.320 (0.432)	43	100933	183.392	183.39	80.00- 120.00	100.00
2.320	2.320 (0.432)	57	70100			0.00- 30.00	69.45
2.320	2.320 (0.432)	72	7630			0.00- 30.00	7.56
19 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.530	2.530 (0.471)	101	217295	196.589	196.59	80.00- 120.00	100.00
2.530	2.530 (0.471)	103	139889			0.00- 30.00	64.38
25 Ethanol					CAS #: 64-17-5		
2.810	2.810 (0.523)	45	28125	156.518	156.52	80.00- 120.00	100.00
2.810	2.810 (0.523)	43	6575			0.00- 30.00	23.38
2.810	2.810 (0.523)	46	11747			0.00- 30.00	41.77
32 Freon 113					CAS #: 76-13-1		
3.090	3.090 (0.575)	151	122801	176.876	176.88	80.00- 120.00	100.00
3.090	3.090 (0.575)	153	80123			0.00- 30.00	65.25
3.090	3.090 (0.575)	101	151311			93.47- 153.47	123.22
33 1,1-Dichloroethene					CAS #: 75-35-4		
3.104	3.118 (0.578)	61	120431	164.491	164.49	80.00- 120.00	100.00
3.118	3.118 (0.581)	96	66711			0.00- 30.00	55.39
3.118	3.118 (0.581)	98	41823			4.98- 64.98	34.73
34 Acetone					CAS #: 67-64-1		
3.230	3.230 (0.601)	58	37547	180.326	180.33	80.00- 120.00	100.00
3.230	3.230 (0.601)	43	126197			0.00- 30.00	336.10
36 Carbon Disulfide					CAS #: 75-15-0		
3.328	3.328 (0.620)	76	179418	189.303	189.30	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
3.370	3.369 (0.627)	45	132167	160.827	160.83	80.00- 120.00	100.00
3.370	3.369 (0.627)	43	31643			0.00- 30.00	23.94
3.370	3.369 (0.627)	59	4954			0.00- 30.00	3.75
38 3-Chloropropene					CAS #: 107-05-1		
3.538	3.537 (0.659)	76	30768	181.265	181.26	80.00- 120.00	100.00
3.538	3.537 (0.659)	41	95701			0.00- 30.00	311.04
45 Methylene Chloride					CAS #: 75-09-2		
3.705	3.705 (0.690)	49	94295	165.170	165.17	80.00- 120.00	100.00
3.705	3.705 (0.690)	84	57874			0.00- 30.00	61.38
3.705	3.705 (0.690)	51	28816			0.00- 30.00	30.56
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.803	3.803 (0.708)	59	97346	160.553	160.55	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.803	3.803 (0.708)	41	23794			0.00- 30.00	24.44
3.803	3.803 (0.708)	57	11105			0.00- 30.00	11.41
48 MTBE					CAS #: 1634-04-4		
3.915	3.915 (0.729)	73	180755	180.239	180.24	80.00- 120.00	100.00
3.915	3.915 (0.729)	57	51283			0.00- 30.00	28.37
3.915	3.915 (0.729)	41	49486			0.00- 30.00	27.38
49 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.943	3.943 (0.734)	96	80042	194.471	194.47	80.00- 120.00	100.00
3.943	3.943 (0.734)	61	117216			0.00- 30.00	146.44
3.943	3.943 (0.734)	98	50558			0.00- 30.00	63.16
52 Hexane					CAS #: 110-54-3		
4.167	4.167 (0.776)	57	141954	176.443	176.44	80.00- 120.00	100.00
4.153	4.167 (0.773)	43	90627			0.00- 30.00	63.84
4.167	4.167 (0.776)	86	23297			0.00- 30.00	16.41
53 Isopropyl ether					CAS #: 108-20-3		
4.433	4.433 (0.825)	45	319799	189.464	189.46	80.00- 120.00	100.00
4.447	4.447 (0.828)	87	72672			0.00- 30.00	22.72
4.433	4.433 (0.825)	59	35090			0.00- 30.00	10.97
55 1,1-Dichloroethane					CAS #: 75-34-3		
4.447	4.447 (0.828)	63	145414	180.065	180.06	80.00- 120.00	100.00
4.447	4.447 (0.828)	65	43078			0.00- 30.00	29.62
58 Vinyl Acetate					CAS #: 108-05-4		
4.489	4.489 (0.836)	86	18562	177.775	177.78	80.00- 120.00	100.00
4.489	4.489 (0.836)	43	237690			0.00- 30.00	1280.51
4.489	4.489 (0.836)	42	21504			0.00- 30.00	115.85
63 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
4.839	4.839 (0.901)	59	274653	195.736	195.74	80.00- 120.00	100.00
4.839	4.839 (0.901)	87	104874			0.00- 30.00	38.18
4.839	4.839 (0.901)	41	53961			0.00- 30.00	19.65
68 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.091	5.090 (0.948)	61	110555	180.691	180.69	80.00- 120.00	100.00
5.091	5.090 (0.948)	96	77887			0.00- 30.00	70.45
5.091	5.090 (0.948)	98	50224			14.85- 74.85	45.43
70 2-Butanone					CAS #: 78-93-3		
5.119	5.118 (0.953)	72	35398	184.617	184.62	80.00- 120.00	100.00
5.119	5.118 (0.953)	43	173508			0.00- 30.00	490.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
70 2-Butanone (continued)							
5.119	5.118 (0.953)	57	13573			0.00- 30.00	38.35
72 Tetrahydrofuran					CAS #: 109-99-9		
5.356	5.356 (0.997)	42	100100	175.094	175.09	80.00- 120.00	100.00
5.356	5.356 (0.997)	71	32067			0.00- 30.00	32.03
5.356	5.356 (0.997)	72	34563			0.00- 30.00	34.53
74 Chloroform					CAS #: 67-66-3		
5.440	5.440 (1.013)	83	153809	189.948	189.95	80.00- 120.00	100.00
5.440	5.440 (1.013)	85	99657			0.00- 30.00	64.79
77 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.594	5.594 (1.042)	97	169978	186.644	186.64	80.00- 120.00	100.00
5.594	5.594 (1.042)	99	108588			0.00- 30.00	63.88
76 Cyclohexane					CAS #: 110-82-7		
5.580	5.580 (1.039)	84	109505	185.739	185.74	80.00- 120.00	100.00
5.580	5.580 (1.039)	56	141956			0.00- 30.00	129.63
5.580	5.580 (1.039)	41	78945			42.64- 102.64	72.09
79 Carbon Tetrachloride					CAS #: 56-23-5		
5.734	5.734 (1.068)	119	179816	190.452	190.45	80.00- 120.00	100.00
5.734	5.734 (1.068)	117	188386			0.00- 30.00	104.77
84 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.986	5.986 (1.115)	57	444024	179.248	179.25	80.00- 120.00	100.00
5.986	5.986 (1.115)	56	142597			0.00- 30.00	32.11
5.986	5.986 (1.115)	41	111492			0.00- 30.00	25.11
86 Benzene					CAS #: 71-43-2		
6.000	6.000 (0.925)	78	220408	185.619	185.62	80.00- 120.00	100.00
6.000	6.000 (0.925)	77	51666			0.00- 30.00	23.44
89 tert-amyl-Methyl Ether					CAS #: 994-05-8		
6.098	6.098 (1.135)	73	223836	195.620	195.62	80.00- 120.00	100.00
6.098	6.098 (1.135)	87	57369			0.00- 30.00	25.63
6.098	6.098 (1.135)	55	72971			0.00- 30.00	32.60
90 1,2-Dichloroethane					CAS #: 107-06-2		
6.112	6.112 (0.942)	62	118679	185.077	185.08	80.00- 120.00	100.00
6.112	6.112 (0.942)	64	37589			0.00- 30.00	31.67
91 Heptane					CAS #: 142-82-5		
6.224	6.224 (0.959)	71	81559	183.726	183.72	80.00- 120.00	100.00
6.224	6.224 (0.959)	43	163999			0.00- 30.00	201.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
91 Heptane (continued)							
6.224	6.224 (0.959)	100	32820			0.00- 30.00	40.24
95 Trichloroethene					CAS #: 79-01-6		
6.742	6.742 (1.039)	95	105176	162.843	162.84	80.00- 120.00	100.00
6.742	6.742 (1.039)	130	125006			0.00- 30.00	118.85
6.742	6.742 (1.039)	97	67809			34.28- 94.28	64.47
97 Methyl Cyclohexane					CAS #: 108-87-2		
6.868	6.867 (1.058)	83	144974	188.996	189.00	80.00- 120.00	100.00
6.868	6.867 (1.058)	98	75937			0.00- 30.00	52.38
6.868	6.867 (1.058)	55	130729			0.00- 30.00	90.17
98 1,2-Dichloropropane					CAS #: 78-87-5		
7.008	7.007 (1.080)	63	91109	185.879	185.88	80.00- 120.00	100.00
7.008	7.007 (1.080)	62	65161			0.00- 30.00	71.52
7.008	7.007 (1.080)	41	59560			35.38- 95.38	65.37
102 1,4-Dioxane					CAS #: 123-91-1		
7.119	7.119 (1.097)	88	54255	190.731	190.73	80.00- 120.00	100.00
7.119	7.119 (1.097)	58	41934			0.00- 30.00	77.29
7.119	7.119 (1.097)	57	14899			0.00- 30.00	27.46
104 Bromodichloromethane					CAS #: 75-27-4		
7.273	7.273 (1.121)	83	162412	186.714	186.71	80.00- 120.00	100.00
7.273	7.273 (1.121)	85	106410			0.00- 30.00	65.52
106 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.665	7.665 (1.181)	75	119894	186.712	186.71	80.00- 120.00	100.00
7.665	7.665 (1.181)	77	37549			0.00- 30.00	31.32
7.665	7.665 (1.181)	39	67985			28.41- 88.41	56.70
107 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.791	7.791 (1.200)	85	30228	180.385	180.38	80.00- 120.00	100.00
7.791	7.791 (1.200)	43	205119			0.00- 30.00	678.56
7.791	7.791 (1.200)	58	78267			0.00- 30.00	258.92
114 Toluene					CAS #: 108-88-3		
7.903	7.903 (1.218)	91	282750	179.906	179.90	80.00- 120.00	100.00
7.903	7.903 (1.218)	92	167916			0.00- 30.00	59.39
117 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.127	8.127 (0.911)	75	126231	186.286	186.28	80.00- 120.00	100.00
8.127	8.127 (0.911)	77	39421			0.00- 30.00	31.23
8.127	8.127 (0.911)	39	66230			22.00- 82.00	52.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
118 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.267	8.267 (0.926)	97	98349	191.551	191.55	80.00- 120.00	100.00
8.267	8.267 (0.926)	99	61618			0.00- 30.00	62.65
8.267	8.267 (0.926)	83	82603			53.80- 113.80	83.99
119 Tetrachloroethene					CAS #: 127-18-4		
8.309	8.309 (0.931)	166	148824	195.215	195.21	80.00- 120.00	100.00
8.295	8.295 (0.929)	129	118079			0.00- 30.00	79.34
8.295	8.309 (0.929)	131	115171			46.18- 106.18	77.39
122 2-Hexanone					CAS #: 591-78-6		
8.421	8.421 (0.944)	58	109545	176.486	176.48	80.00- 120.00	100.00
8.421	8.421 (0.944)	43	205465			0.00- 30.00	187.56
8.435	8.435 (0.945)	100	24396			0.00- 30.00	22.27
124 Dibromochloromethane					CAS #: 124-48-1		
8.533	8.532 (0.956)	129	193443	198.340	198.34	80.00- 120.00	100.00
8.533	8.532 (0.956)	127	150453			0.00- 30.00	77.78
125 1,2-Dibromoethane					CAS #: 106-93-4		
8.631	8.630 (0.967)	107	168464	204.517	204.52	80.00- 120.00	100.00
8.631	8.630 (0.967)	109	158375			0.00- 30.00	94.01
127 Chlorobenzene					CAS #: 108-90-7		
8.938	8.938 (1.002)	112	268004	198.435	198.44	80.00- 120.00	100.00
8.938	8.938 (1.002)	114	86462			0.00- 30.00	32.26
8.938	8.938 (1.002)	77	134643			19.73- 79.73	50.24
129 Ethyl Benzene					CAS #: 100-41-4		
8.994	8.994 (1.008)	106	131420	196.497	196.50	80.00- 120.00	100.00
8.994	8.994 (1.008)	91	401051			0.00- 30.00	305.17
132 m,p-Xylene					CAS #: 108-38-3		
9.064	9.064 (1.016)	106	165013	194.029	194.03	80.00- 120.00	100.00
9.064	9.064 (1.016)	91	312196			0.00- 30.00	189.19
134 o-Xylene					CAS #: 95-47-6		
9.316	9.316 (1.044)	106	155441	191.010	191.01	80.00- 120.00	100.00
9.316	9.316 (1.044)	91	310251			0.00- 30.00	199.59
135 Styrene					CAS #: 100-42-5		
9.330	9.330 (1.045)	104	244450	192.480	192.48	80.00- 120.00	100.00
9.330	9.330 (1.045)	78	108432			0.00- 30.00	44.36
139 Bromoform					CAS #: 75-25-2		
9.470	9.470 (1.061)	173	161570	198.518	198.52	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
139 Bromoform (continued)							
9.470	9.470 (1.061)	171	82907			0.00- 30.00	51.31
140 Cumene					CAS #: 98-82-8		
9.526	9.526 (1.067)	105	466791	196.810	196.81	80.00- 120.00	100.00
9.526	9.526 (1.067)	120	131343			0.00- 30.00	28.14
9.526	9.526 (1.067)	51	51467			0.00- 30.00	11.03
143 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.736	9.736 (1.091)	83	213690	199.140	199.14	80.00- 120.00	100.00
9.736	9.736 (1.091)	85	139539			0.00- 30.00	65.30
145 Propylbenzene					CAS #: 103-65-1		
9.764	9.764 (1.094)	91	522362	196.502	196.50	80.00- 120.00	100.00
9.764	9.764 (1.094)	120	135106			0.00- 30.00	25.86
9.764	9.764 (1.094)	105	20553			0.00- 30.00	3.93
147 4-Ethyltoluene					CAS #: 622-96-8		
9.820	9.820 (1.100)	105	507330	211.637	211.64	80.00- 120.00	100.00
9.820	9.820 (1.100)	120	158093			0.00- 30.00	31.16
149 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.848	9.848 (1.103)	105	445670	208.183	208.18	80.00- 120.00	100.00
9.848	9.848 (1.103)	120	225571			0.00- 30.00	50.61
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.058	10.058 (1.127)	105	393167	213.093	213.09	80.00- 120.00	100.00
10.058	10.058 (1.127)	120	192704			0.00- 30.00	49.01
157 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.240	10.225 (1.147)	146	272027	215.649	215.65	80.00- 120.00	100.00
10.240	10.239 (1.147)	148	174197			0.00- 30.00	64.04
10.226	10.225 (1.146)	111	107503			0.00- 30.00	39.52
158 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.282	10.281 (1.152)	146	296848	219.953	219.95	80.00- 120.00	100.00
10.282	10.281 (1.152)	148	186938			0.00- 30.00	62.97
10.282	10.281 (1.152)	111	111663			0.00- 30.00	37.62
162 alpha-Chlorotoluene					CAS #: 100-44-7		
10.352	10.351 (1.160)	91	285793	208.328	208.33	80.00- 120.00	100.00
10.352	10.351 (1.160)	126	67155			0.00- 30.00	23.50
165 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.478	10.477 (1.174)	146	256115	224.640	224.64	80.00- 120.00	100.00
10.478	10.477 (1.174)	148	164123			0.00- 30.00	64.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
165 1,2-Dichlorobenzene (continued)							
10.478	10.477 (1.174)	111	103993			10.67- 70.67	40.60
169 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.247	11.247 (1.260)	180	125395	258.760	258.76	80.00- 120.00	100.00
11.247	11.247 (1.260)	182	114434			0.00- 30.00	91.26
170 Hexachlorobutadiene					CAS #: 87-68-3		
11.289	11.289 (1.265)	225	84896	271.940	271.94	80.00- 120.00	100.00(R)
11.289	11.289 (1.265)	223	54359			0.00- 30.00	64.03
171 Naphthalene					CAS #: 91-20-3		
11.373	11.373 (1.274)	128	251374	210.100	210.10	80.00- 120.00	100.00
11.373	11.373 (1.274)	127	31088			0.00- 30.00	12.37

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdw.i
Lab File ID: w060205.d
Lab Smp Id: 1936-141
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msdw.i/02jun10.b/w1050511b.m
Misc Info: LCS

Calibration Date: 02-JUN-2010
Calibration Time: 10:12
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	140702	84421	196983	142839	1.52
93 1,4-Difluorobenze	529979	317987	741971	538326	1.57
126 Chlorobenzene-d5	520409	312245	728573	520525	0.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
73 Bromochloromethan	5.37	5.04	5.70	5.37	0.00
93 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
126 Chlorobenzene-d5	8.92	8.59	9.25	8.92	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/msdw.i/02jun10.b/w060205.d

Date : 02-JUN-2010 10:36

Client ID: LCS

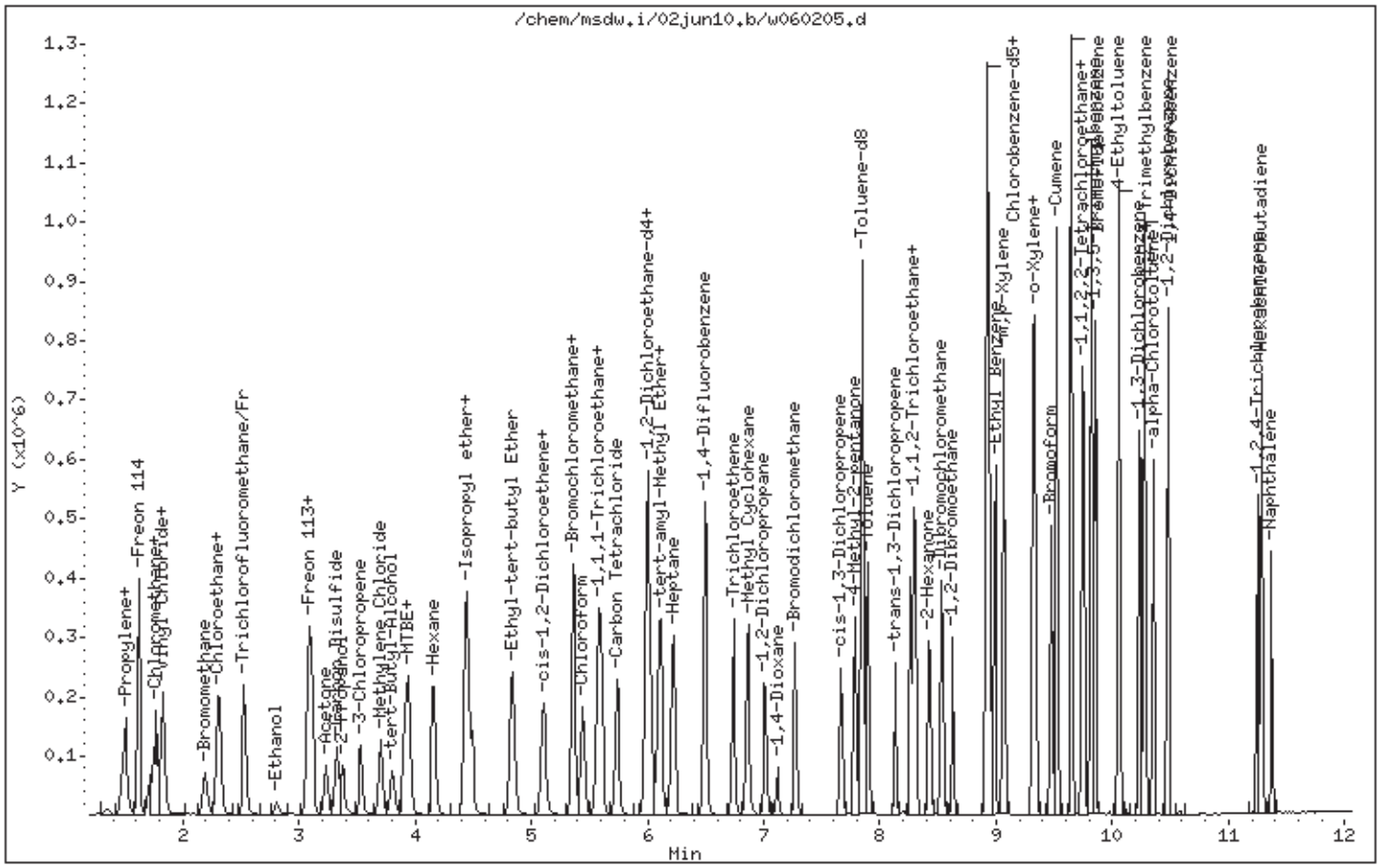
Instrument: msdw.i

Sample Info: 50ml,907

Operator: LL

Column phase: RTx-624

Column diameter: 0.53



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MSD-B

Logbook #: 1971

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.54
75	30.0 – 60.0% of mass 95	47.63
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.89
173	Less than 2.0% of mass 174	0.46 (0.56)[1]
174	50.0 – 100% of mass 95	82.66
175	5.0 – 9.0% of mass 174	5.81 (7.03)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	80.47 (97.36)[1]
177	5.0 – 9.0% of mass 176	5.57 (6.92)[2]

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

Verify 176/174 m/z Ratio: (222229/228266) x 100% = 97.36% ww 5/26/10

BFB Injection Date: 05/26/10
BFB Injection Time: 2123
BFB File ID: B052601
Tekmar Purge Flow: 2
Vacuum: ww 5/26/10

IS/S Std.#:	1911-336	Exp. Date: 7/9/10
BCM	213867	
1,4-DFB	789670	
CB-d5	751322	

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 696348\ )}{(\ 720359\ )} \times \frac{(\ 400\ )}{(\ 0.96309\ )} = 401.49$

Reported Result 401.48

File ID:	B052602
Compound:	Toluene-d8
Initials:	ww

Method: B1050504c.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	B052601	BFB Tune Check	1476-1517	50 psig	2.0mL	1.00	ww	05/26/10	2123	ww	
2	✓	02	CCV (200ppbv)	1936-136	200ppbv	50mL			↓	2357	ww	8 out
3	✓	03	LCS (200ppbv)	1936-143	200ppbv	50mL			ww 5/27/10 ↓ 5/27/10	0107	ww	8 out
4	✓	04	SP CCV (200ppbv)	1936-173	200ppbv	50mL			4 5/27/10	0215	ww	8 out
5	✓	05	TPH-g CCV (4000ppbv)	1830-5	4000ppbv	2.0mL			05/27/10	0244	ww	
6	✓	06	Lab Blank	34261	Humid	50mL	↓			0311	ww	BC dragged
7	✓	07	1005354B-17A	31758	4.6" Hg-15psig	17mL	7.03			0345	ww	
8	X	08	1005589A-05A	1L Bag	SB-205 (IPA)	5.0mL	10.0			0422	ww	Bad load over-range
9	X	↓ 09	1005589A-05A	1L Bag	SB-205 (IPA)	2.0mL	25.0	↓	↓	0449	ww	over-diluted

Signature

05/27/10
Date

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MSD-B

Logbook #: 1971

10	√	B052610	1005589A-05A	1L Bag	SB-205 (1AT)	4.0mL	12.5	—	05/27/10	0518	DM	
11	X	11	1005522A-01A	33559	5.4"Hg-5.0psi	40.0mL	2.04	ED	5/27/10	1144	DM	OVER 2 HOLDTIMES
12	√	12	01A	1	1	50.0mL	1.63			1203	DM	
13	~~—~~	~~13~~	~~02A~~	~~33559~~	~~5.4"Hg-5.0psi~~	~~50.0mL~~	~~1.63~~					~~ED~~ 5/27/10
14	√	B052610 13	02A	34445	6.0"Hg-5.0psi	50.0mL	1.68		5/27/10	1245	DM	
15	√	14	02AA	1	1	1	1			1306	DM	DUP
16	√	15	~~1005485~~ -02A	3635	0.0"Hg-15psi	50.0mL	2.02			1452	DM	1005485 = WO#
17	√	16	1005485-02AA	1	1	1	1			1515	DM	DUP
18	√	17	01A	2963	0.6"Hg-15psi	5.0mL	~~2.02~~ 20.6			1542	gd DM	↑ LCSD / MATRIX Diluted for matrix X
19	√	18	SYSTEM BLANK	11032	HUMID	50.0mL	1			1620	DM	
20	X	19	1005522A-04A	35285	4.0"Hg-5.0psi	50.0mL	1.55			1830	—	Chemstation Error
21	√	20	-04A			50mL	1.55	gd		1907	DM	
22	C	21	-04A							2022	DM	Confirmation
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												

DM 5/27/10

Comments:

DM 5/28/10

Signature

5/27/2010
Date

@ Air Toxics Ltd.

MSD-W

Logbook #: 1935

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.63
75	30.0 – 60.0% of mass 95	44.77
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.72
173	Less than 2.0% of mass 174	0.60 (0.71)[1]
174	50.0 – 100% of mass 95	83.74
175	5.0 – 9.0% of mass 174	6.23 (7.44)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	82.15 (98.10)[1]
177	5.0 – 9.0% of mass 176	5.26 (6.39)[2]

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

BFB Injection Date: 6/02/10
BFB Injection Time: 0952
BFB File ID: W060203
Tekmar Purge Flow: ~~—~~
Vacuum: ~~—~~ 6/2/10

IS/S Std.#: 1830-30	Exp. Date: 7/24/10
BCM 140702	
1,4-DFB 529979	
CB-d5 520409	

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

Verify 176/174 m/z Ratio: 449301 / 457984 X100 = 98.10%

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 512583\ )}{(\ 529979\ )} \times \frac{(\ 400\ )}{(\ 0.96624\ )} =$ 400.39

File ID:	W060204
Compound:	Toluene-d8
Initials:	LL

Reported Result 400.39

Method: W1050511b.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	W060203	BFB Tune check	1476-1514	50ng	2.0mL	1.00	LL	6/2/10	0952	LL/~~TJS~~	BFB Tune check
2	✓	04	CCV-1 (200ppbv)	1936-138	6/2/10 ~~50~~ 200ppbv	50mL				1012		@ out CCV exp 7/30/10
3	✓	05	LCS-1 (200ppbv)	1936-141	200ppbv	↓				1036		1 out, HCBD↑ LCS exp 7/30/10
4	✓	06	TPHg CCV (100ppmv)	1830-5	4000ppbv	2.0mL				1103		TPHg CCV exp 7/29/10
5	✓	07	Lab Blank	31744	NA	50mL 50mL Matrix		↓		1133		Lab Blank
6	✓	08	1005612A -04A	3616	3.5"Hg→15psi	50mL	2.29	LL		1153		
7	✓	09	-01A	2829	↓		↓			1217		
8	✓	10	-02A	3180	7.2"Hg→15psi		2.66			1238		
9	✓	11	-03A	3160	↓	↓	↓	↓	↓	1323	↓	

Leslie Forbes
Signature

6/2/10
Date

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MSD-W

Logbook #: 1935

10	✓	W060212	1005507 - 03A	36414	5"Hg → 15psi	50mL	2.42	gd	6/2/10	1436	gd/ TS		
11	✓	13	1005593 - 01A	10783	5.8"Hg → 5psi		1.66			1503			"E" ethanol ok
12	✓	14	~~1005~~ 1006014 - 01A	33388	3.0"Hg → 15psi		2.24			1529			
13	✓	15	gd 6/2/10 1005689 - 01A	2164	2.5"Hg → 15psi		2.20			1550			
14	✓	16	- 02A	33410	3.0"Hg → 15psi		2.24			1612			
15	✓	17	- 03A	33414	3.5"Hg → 15psi		2.29			1634			
16	✓	18	1005522A - 11A	4235	28.5"Hg → 5psi	✓	1.00			1656			trip blank
17	✓	19	1005597 - 01A	34661	3.2"Hg → 15psi	12.5 mL ~~12.5~~ ~~5~~	~~2.6~~ 2.04 gd 6/4/10			1720			
18	X	20	1005676A - 05A	37432	9"Hg → 15psi	4mL	36.1			1755			overdiluted
19	✓	21	- 05A			12.5mL	11.6			1816			Diluted For matrix
20	X	22	- 12A	2057	6"Hg → 15psi	(100X) 5mL	2520			1841			overdiluted
21	✓	23	- 12A			0.5mL	252			1906			matrix
22	✓	24	- 12AA	↓	↓	↓	↓			1931			Dup
23	X	25	1005676B - 25A	9518	3.2"Hg → 15psi	1.5mL	75.3			2008			overdiluted
24	✓	26	- 25A	↓	↓	3.0mL	37.7			2035			Diluted for matrix
25	✓	27	System Blank	34744	Humid	50mL	1.00			2105	↓		
26	✓	28	manifold cert #9	36539	NA	50mL	1.00	✓	✓	2126	✓ RA		
27													
28													
29													
30													
31													
32													
33													6/3/10

Comments:

Leslie Farr
Signature

6/3/10
Date

Air Toxics Ltd.

Data file : /var/chem/msdb.i/04may10.b/b050401.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 04-MAY-2010 10:02
Operator : db Inst ID: msdb.i
Smp Info : 2.0uL #1476-1513; BFB Tune Check;BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdb.i/04may10.b/bfb20.m
Meth Date : 04-May-2010 10:04 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		
2.528	2.800	-0.272	95	1243477			100.00- 100.00	100.00
2.528	2.800	-0.272	50	220288			15.00- 40.00	17.72
2.528	2.800	-0.272	75	566122			30.00- 60.00	45.53
2.528	2.800	-0.272	96	83474			5.00- 9.00	6.71
2.528	2.800	-0.272	173	5408			0.00- 2.00	0.50
2.528	2.800	-0.272	174	1084757			50.00- 100.00	87.24
2.528	2.800	-0.272	175	74856			5.00- 9.00	6.90
2.528	2.800	-0.272	176	1059605			95.01- 100.99	97.68
2.528	2.800	-0.272	177	67850			5.00- 9.00	6.40

Data File: /var/chem/msdb.i/04may10.b/b050401.d

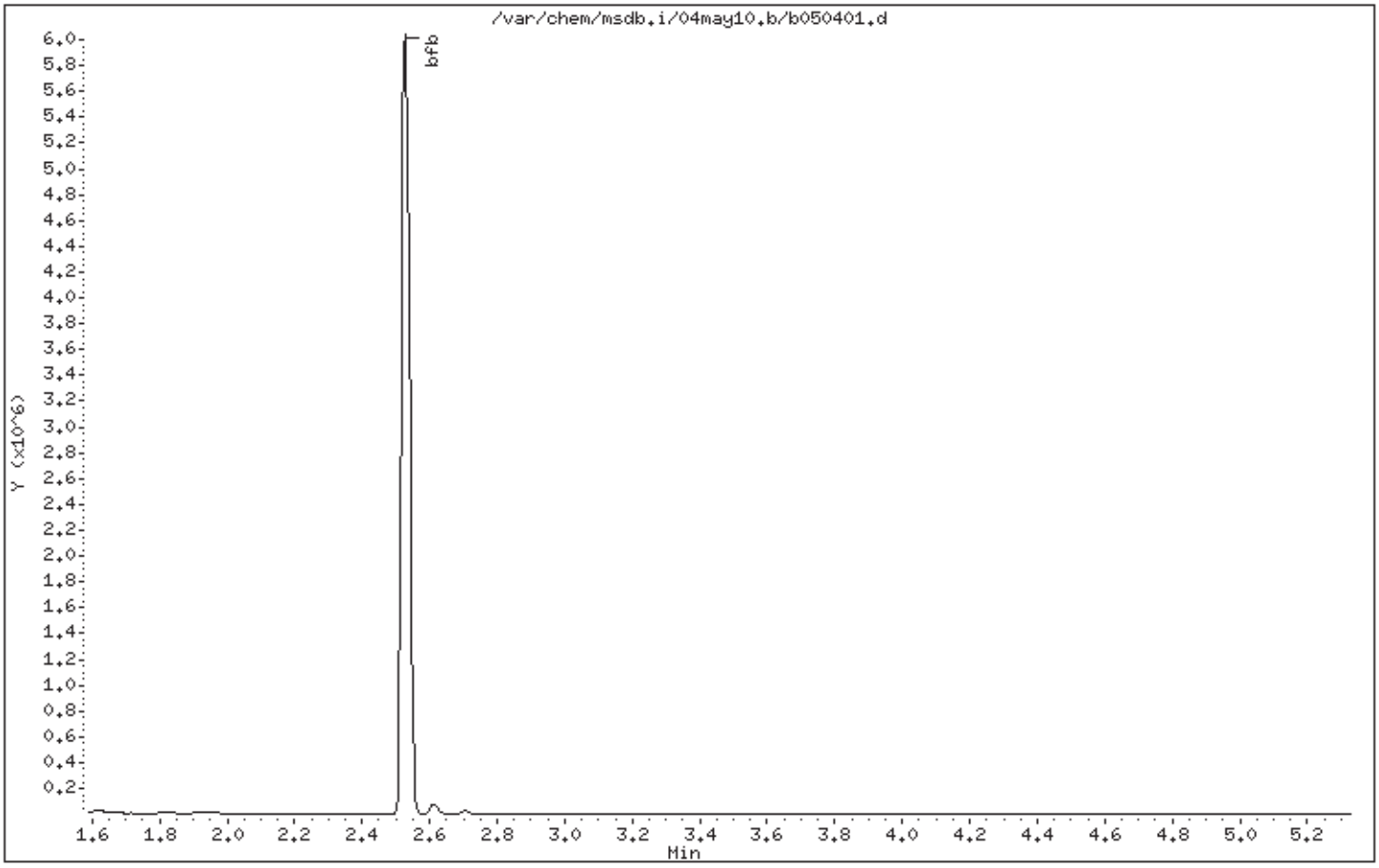
Date : 04-MAY-2010 10:02

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1513; BFB Tune Check;BFB

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00



Data File: /var/chem/msdb.i/04may10.b/b050401.d

Date : 04-MAY-2010 10:02

Client ID: BFB

Instrument: msdb.i

Sample Info: 2.0uL #1476-1513; BFB Tune Check;BFB

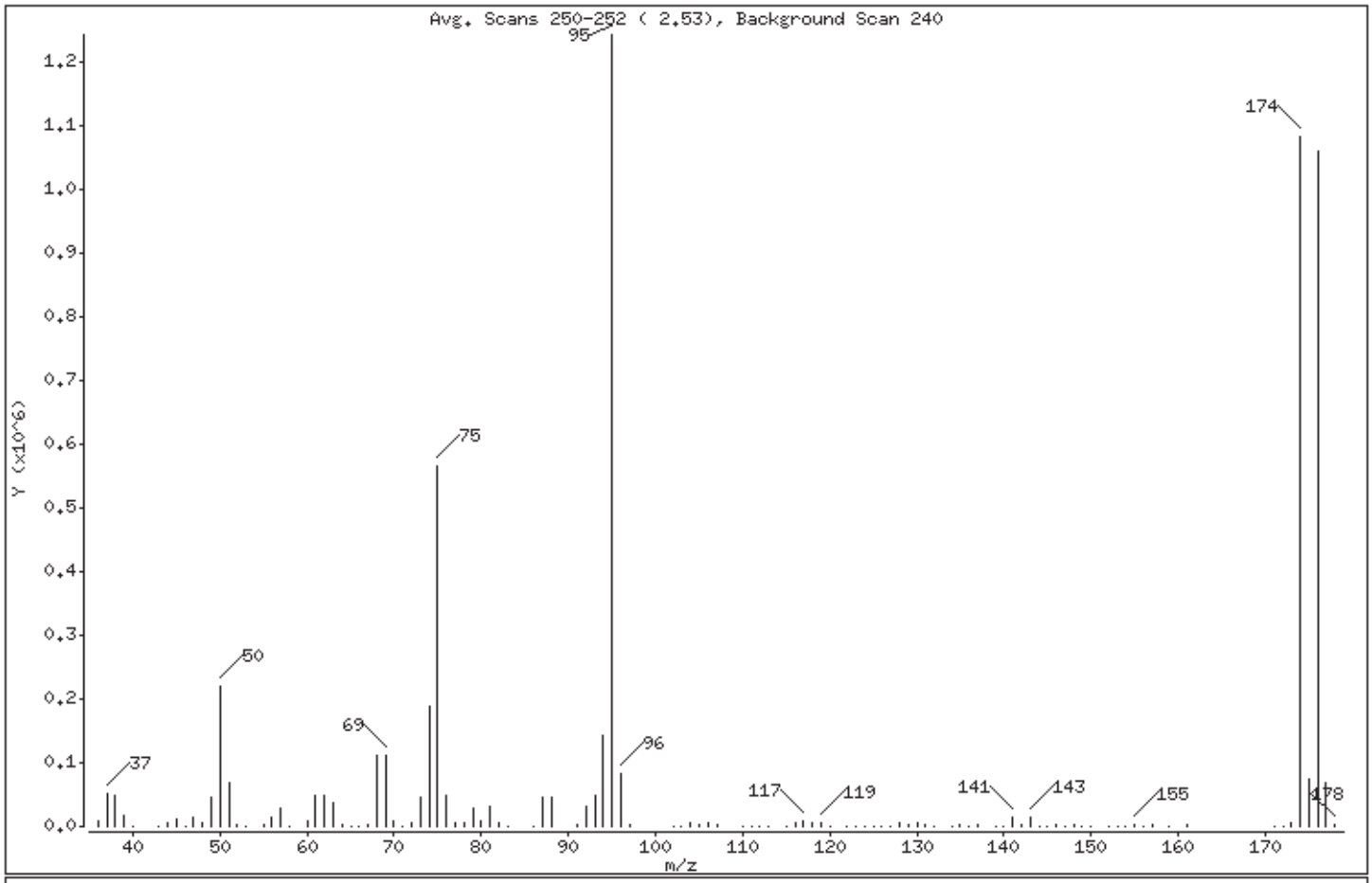
Volume Injected (uL): 1.0

Operator: db

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	17.72
75	30.00 - 60.00% of mass 95	45.53
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.43 (0.50)
174	50.00 - 100.00% of mass 95	87.24
175	5.00 - 9.00% of mass 174	6.02 (6.90)
176	95.01 - 100.99% of mass 174	85.21 (97.68)
177	5.00 - 9.00% of mass 176	5.46 (6.40)

Date : 04-MAY-2010 10:02

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1513; BFB Tune Check;BFB

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00

Data File: b050401.d
Spectrum: Avg. Scans 250-252 (2.53), Background Scan 240
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8984	69.00	112400	106.00	5293	141.00	14766
37.00	52360	70.00	8808	107.00	1488	142.00	1598
38.00	47592	71.00	436	110.00	854	143.00	15296
39.00	18432	72.00	5450	111.00	1408	144.00	804
40.00	292	73.00	46648	112.00	920	145.00	1195
43.00	266	74.00	188224	113.00	995	146.00	1892
44.00	5829	75.00	566080	115.00	1269	147.00	851
45.00	10216	76.00	47720	116.00	4867	148.00	3370
46.00	646	77.00	6132	117.00	7964	149.00	1012
47.00	13572	78.00	4336	118.00	5220	150.00	1348
48.00	5900	79.00	29328	119.00	6561	152.00	615
49.00	45800	80.00	8573	120.00	234	153.00	903
50.00	220288	81.00	30560	122.00	432	154.00	709
51.00	68984	82.00	6953	123.00	320	155.00	3207
52.00	2484	83.00	693	124.00	650	156.00	392
53.00	60	86.00	982	125.00	529	157.00	2379
55.00	2603	87.00	46696	126.00	673	159.00	1403
56.00	15309	88.00	45312	127.00	372	161.00	1486
57.00	28544	91.00	3905	128.00	5042	171.00	52
58.00	1327	92.00	32560	129.00	2129	172.00	443
60.00	8966	93.00	47496	130.00	4776	173.00	5408
61.00	48744	94.00	141632	131.00	2077	174.00	1084416
62.00	48104	95.00	1243136	132.00	70	175.00	74856
63.00	37472	96.00	83472	134.00	394	176.00	1059328
64.00	3458	97.00	2416	135.00	2339	177.00	67848
65.00	338	102.00	67	136.00	343	178.00	1886
66.00	184	103.00	291	137.00	3235		
67.00	2176	104.00	5303	139.00	518		
68.00	110808	105.00	1814	140.00	940		

Air Toxics Ltd.

Data file : /var/chem/msdb.i/05may10.b/b050504.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 05-MAY-2010 17:18
Operator : kjj Inst ID: msdb.i
Smp Info : 2.0uL #1476-1239;BFB;BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdb.i/05may10.b/bfb20.m
Meth Date : 05-May-2010 17:20 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	
2.513	2.800	-0.287	95	620352			100.00- 100.00	100.00
2.513	2.800	-0.287	50	109853			15.00- 40.00	17.71
2.513	2.800	-0.287	75	282624			30.00- 60.00	45.56
2.513	2.800	-0.287	96	44349			5.00- 9.00	7.15
2.513	2.800	-0.287	173	3119			0.00- 2.00	0.59
2.513	2.800	-0.287	174	529194			50.00- 100.00	85.31
2.513	2.800	-0.287	175	36690			5.00- 9.00	6.93
2.513	2.800	-0.287	176	509696			95.01- 100.99	96.32
2.513	2.800	-0.287	177	35501			5.00- 9.00	6.97

Data File: /var/chem/msdb.i/05may10.b/b050504.d

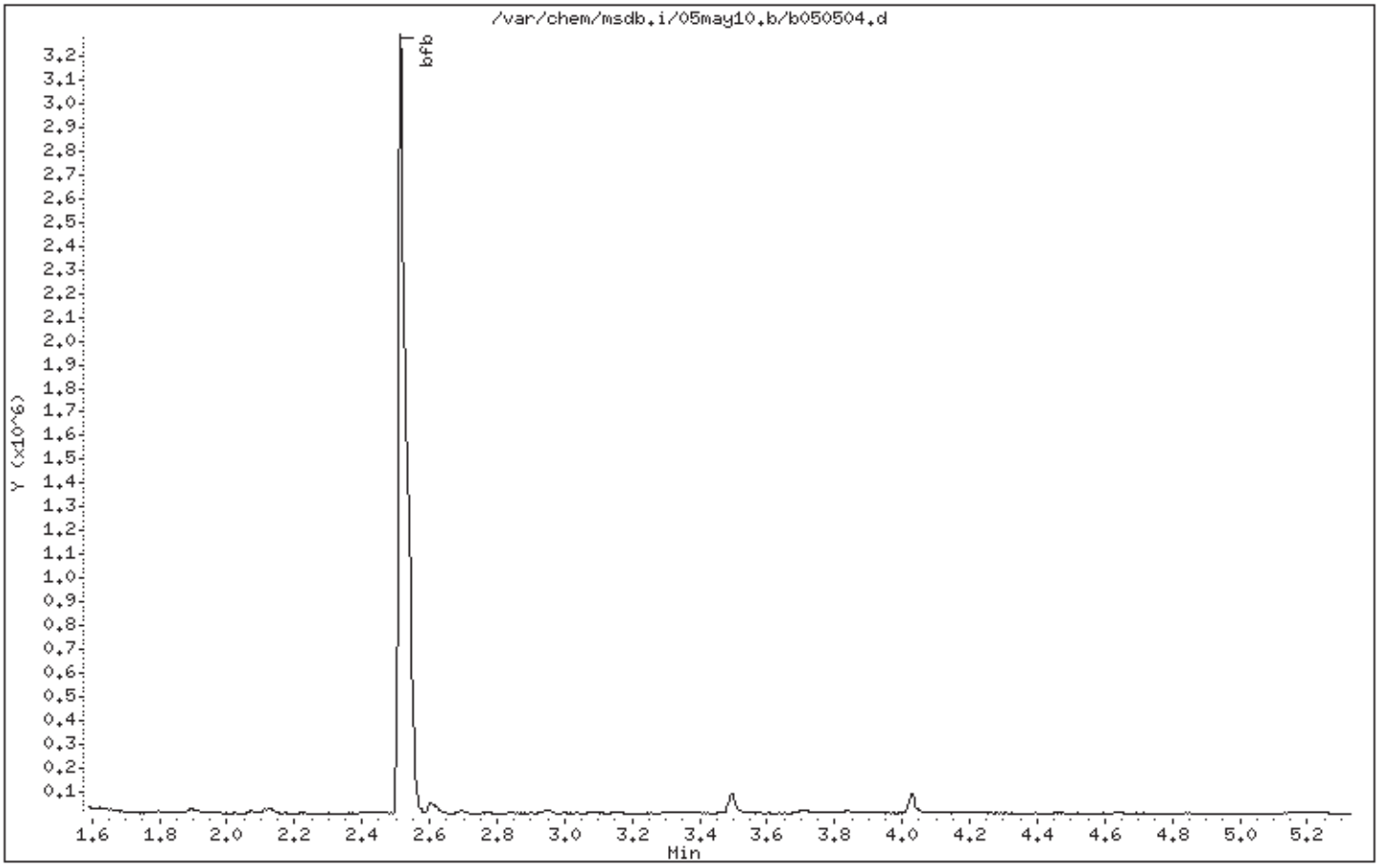
Date : 05-MAY-2010 17:18

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1239;BFB;BFB

Volume Injected (uL): 1.0 Operator: kjj

Column phase: Column diameter: 2.00



Data File: /var/chem/msdb.i/05may10.b/b050504.d

Date : 05-MAY-2010 17:18

Client ID: BFB

Instrument: msdb.i

Sample Info: 2.0uL #1476-1239;BFB;BFB

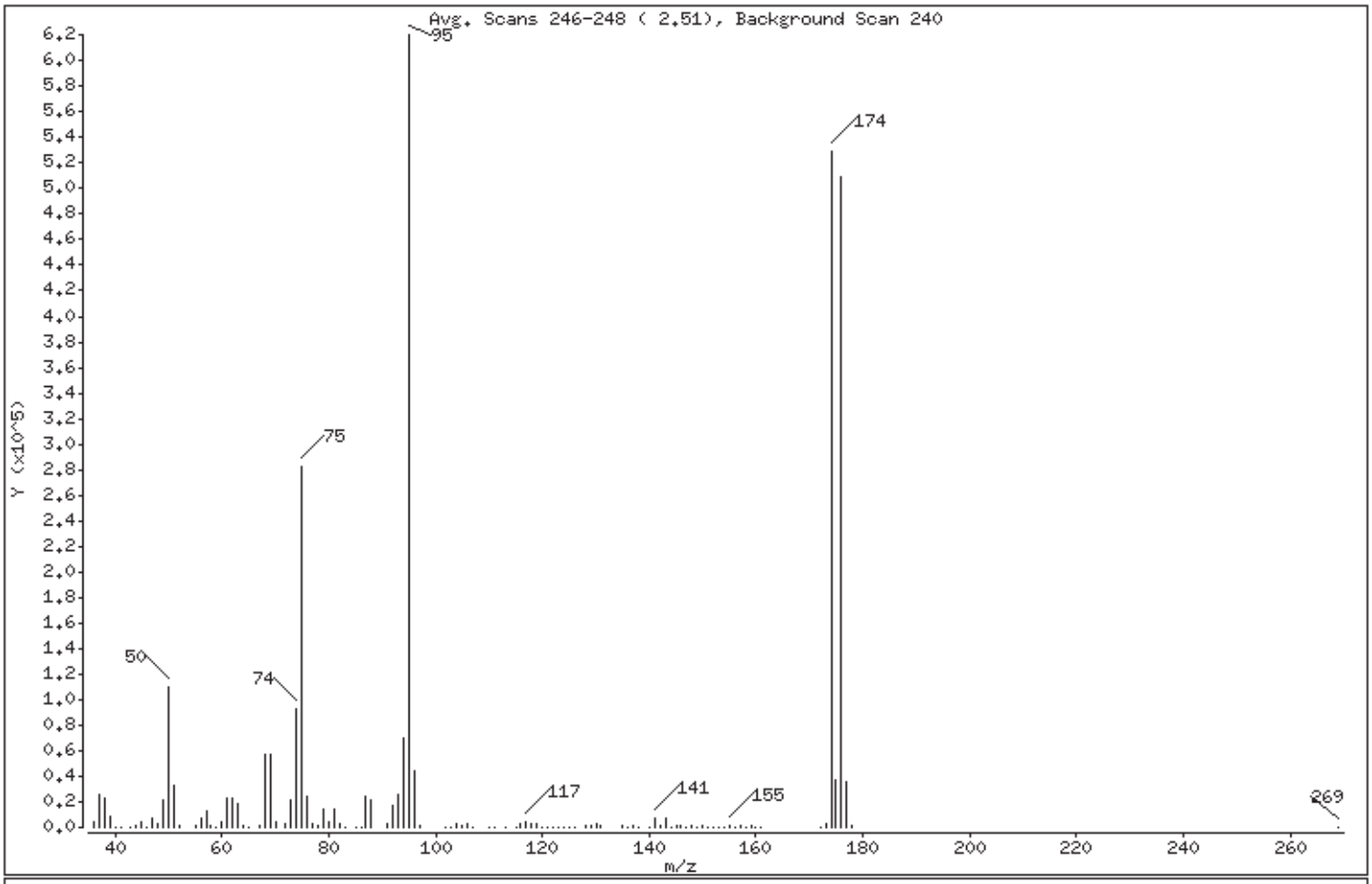
Volume Injected (uL): 1.0

Operator: kjj

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	17.71
75	30.00 - 60.00% of mass 95	45.56
96	5.00 - 9.00% of mass 95	7.15
173	Less than 2.00% of mass 174	0.50 (0.59)
174	50.00 - 100.00% of mass 95	85.31
175	5.00 - 9.00% of mass 174	5.91 (6.93)
176	95.01 - 100.99% of mass 174	82.16 (96.32)
177	5.00 - 9.00% of mass 176	5.72 (6.97)

Date : 05-MAY-2010 17:18

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1239;BFB;BFB

Volume Injected (uL): 1.0 Operator: kjj

Column phase: Column diameter: 2.00

Data File: b050504.d
Spectrum: Avg. Scans 246-248 (2.51), Background Scan 240
Location of Maximum: 95.00
Number of points: 113

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4957	69.00	56400	106.00	2499	144.00	376
37.00	25264	70.00	4308	107.00	488	145.00	722
38.00	22784	72.00	2709	110.00	327	146.00	768
39.00	9226	73.00	21888	111.00	667	147.00	358
40.00	102	74.00	93160	113.00	610	148.00	1382
41.00	371	75.00	282624	115.00	575	149.00	384
43.00	280	76.00	24088	116.00	2243	150.00	864
44.00	2130	77.00	2699	117.00	4191	151.00	54
45.00	4195	78.00	2093	118.00	2489	152.00	314
46.00	474	79.00	14370	119.00	3458	153.00	593
47.00	6951	80.00	4127	120.00	92	154.00	391
48.00	3340	81.00	14240	121.00	57	155.00	1883
49.00	21784	82.00	3368	122.00	56	156.00	137
50.00	109848	83.00	451	123.00	172	157.00	1055
51.00	32728	85.00	52	124.00	376	158.00	52
52.00	1725	86.00	409	125.00	472	159.00	1014
55.00	1647	87.00	24624	126.00	327	160.00	54
56.00	7544	88.00	21456	128.00	1925	161.00	610
57.00	13354	91.00	2405	129.00	1079	172.00	235
58.00	743	92.00	16608	130.00	2412	173.00	3119
59.00	82	93.00	25184	131.00	1141	174.00	529152
60.00	4188	94.00	69472	135.00	1451	175.00	36688
61.00	23112	95.00	620352	136.00	122	176.00	509696
62.00	23472	96.00	44344	137.00	1324	177.00	35496
63.00	19024	97.00	1398	138.00	54	178.00	1169
64.00	1930	102.00	54	140.00	394	269.00	136
65.00	113	103.00	195	141.00	7014		
67.00	1488	104.00	2637	142.00	1059		
68.00	57224	105.00	886	143.00	6713		

Air Toxics Ltd.

Data file : /chem/msdw.i/11May2010.b/w051101.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 11-MAY-2010 11:07
Operator : ly Inst ID: msdw.i
Smp Info : 2.0ul,1476-1514;BFB;
Misc Info : BFB
Comment :
Method : /chem/msdw.i/11May2010.b/bfb20.m
Meth Date : 06-Aug-2009 09:16 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	
3.407	3.273	0.134	95	254122			100.00- 100.00	100.00
3.407	3.273	0.134	50	53987			15.00- 40.00	21.24
3.407	3.273	0.134	75	115429			30.00- 60.00	45.42
3.407	3.273	0.134	96	17566			5.00- 9.00	6.91
3.407	3.273	0.134	173	1556			0.00- 2.00	0.79
3.407	3.273	0.134	174	197802			50.00- 100.00	77.84
3.407	3.273	0.134	175	14232			5.00- 9.00	7.20
3.407	3.273	0.134	176	192341			95.01- 100.99	97.24
3.407	3.273	0.134	177	12292			5.00- 9.00	6.39

Data File: /chem/msdw.i/11May2010.b/w051101.d

Date : 11-MAY-2010 11:07

Client ID: BFB

Instrument: msdw.i

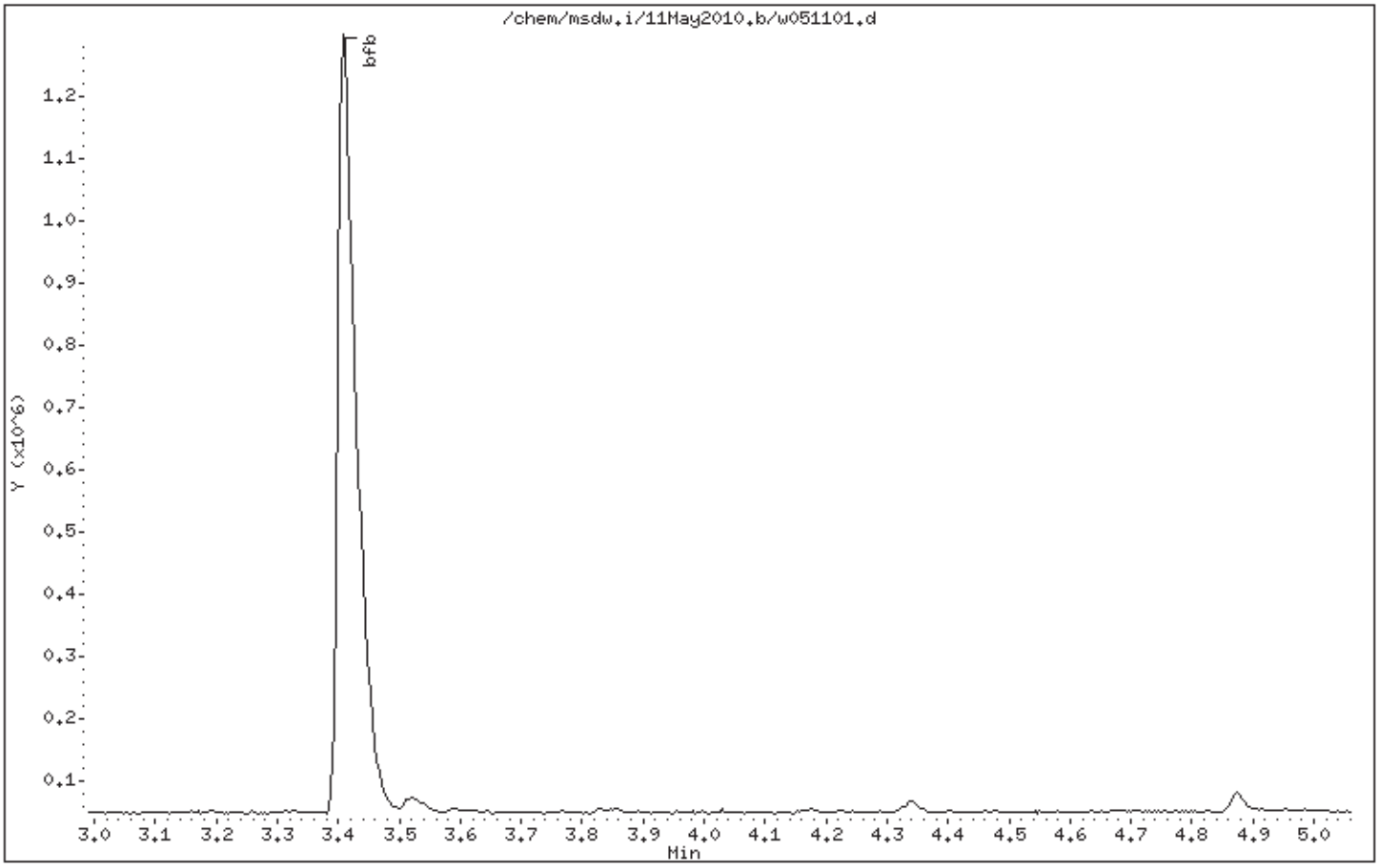
Sample Info: 2.0ul,1476-1514;BFB;

Volume Injected (uL): 1.0

Operator: ly

Column phase:

Column diameter: 2.00



Data File: /chem/msdw.i/11May2010.b/w051101.d

Date : 11-MAY-2010 11:07

Client ID: BFB

Instrument: msdw.i

Sample Info: 2.0ul,1476-1514;BFB;

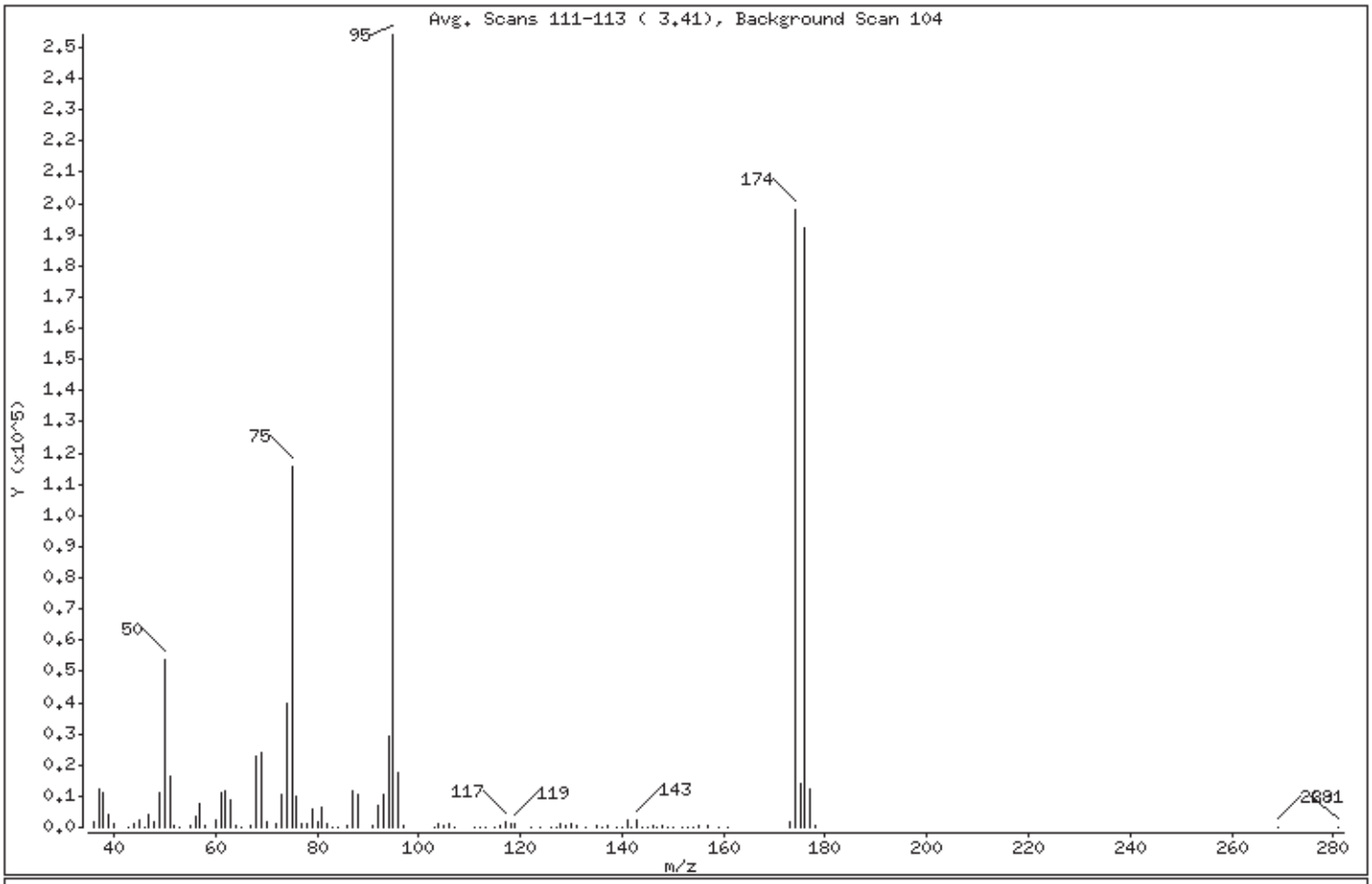
Volume Injected (uL): 1.0

Operator: ly

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	21.24
75	30.00 - 60.00% of mass 95	45.42
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.61 (0.79)
174	50.00 - 100.00% of mass 95	77.84
175	5.00 - 9.00% of mass 174	5.60 (7.20)
176	95.01 - 100.99% of mass 174	75.69 (97.24)
177	5.00 - 9.00% of mass 176	4.84 (6.39)

Date : 11-MAY-2010 11:07

Client ID: BFB Instrument: msdw.i

Sample Info: 2.0ul,1476-1514;BFB;

Volume Injected (uL): 1.0 Operator: ly

Column phase: Column diameter: 2.00

Data File: w051101.d
Spectrum: Avg. Scans 111-113 (3.41), Background Scan 104
Location of Maximum: 95.00
Number of points: 105

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1995	68.00	22928	104.00	1137	142.00	268
37.00	12173	69.00	23664	105.00	314	143.00	2535
38.00	10932	70.00	1760	106.00	1120	144.00	65
39.00	4045	72.00	1293	107.00	211	145.00	171
40.00	1109	73.00	10453	111.00	210	146.00	387
43.00	135	74.00	39776	112.00	171	147.00	221
44.00	1231	75.00	115424	113.00	275	148.00	685
45.00	2242	76.00	10047	115.00	270	149.00	71
46.00	227	77.00	1358	116.00	782	150.00	242
47.00	4245	78.00	943	117.00	1555	152.00	61
48.00	1518	79.00	5805	118.00	890	153.00	208
49.00	11087	80.00	1806	119.00	1239	154.00	55
50.00	53984	81.00	6222	122.00	59	155.00	539
51.00	16640	82.00	1422	124.00	113	157.00	403
52.00	661	83.00	87	126.00	51	159.00	266
53.00	131	84.00	54	127.00	56	161.00	283
55.00	507	86.00	316	128.00	1056	173.00	1556
56.00	3470	87.00	11655	129.00	479	174.00	197760
57.00	7304	88.00	10300	130.00	1028	175.00	14232
58.00	359	91.00	778	131.00	415	176.00	192320
60.00	2128	92.00	7068	133.00	121	177.00	12292
61.00	11252	93.00	10708	135.00	553	178.00	308
62.00	11584	94.00	29360	136.00	55	269.00	197
63.00	8731	95.00	254080	137.00	431	281.00	157
64.00	769	96.00	17560	139.00	53		
65.00	137	97.00	524	140.00	69		
67.00	587	103.00	111	141.00	2422		

Air Toxics Ltd.

Data file : /chem/msdb.i/13may10.b/b051301.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 13-MAY-2010 04:43
Operator : dfm Inst ID: msdb.i
Smp Info : 2.0uL #1476-1513; BFB Tune Check;BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdb.i/13may10.b/bfb20.m
Meth Date : 13-May-2010 04:45 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		
2.483	2.800	-0.317	95	1294506			100.00- 100.00	100.00
2.483	2.800	-0.317	50	226368			15.00- 40.00	17.49
2.483	2.800	-0.317	75	591573			30.00- 60.00	45.70
2.483	2.800	-0.317	96	83992			5.00- 9.00	6.49
2.483	2.800	-0.317	173	5997			0.00- 2.00	0.53
2.483	2.800	-0.317	174	1131008			50.00- 100.00	87.37
2.483	2.800	-0.317	175	81240			5.00- 9.00	7.18
2.483	2.800	-0.317	176	1101973			95.01- 100.99	97.43
2.483	2.800	-0.317	177	73002			5.00- 9.00	6.62

Data File: /chem/msdb.i/13may10.b/b051301.d

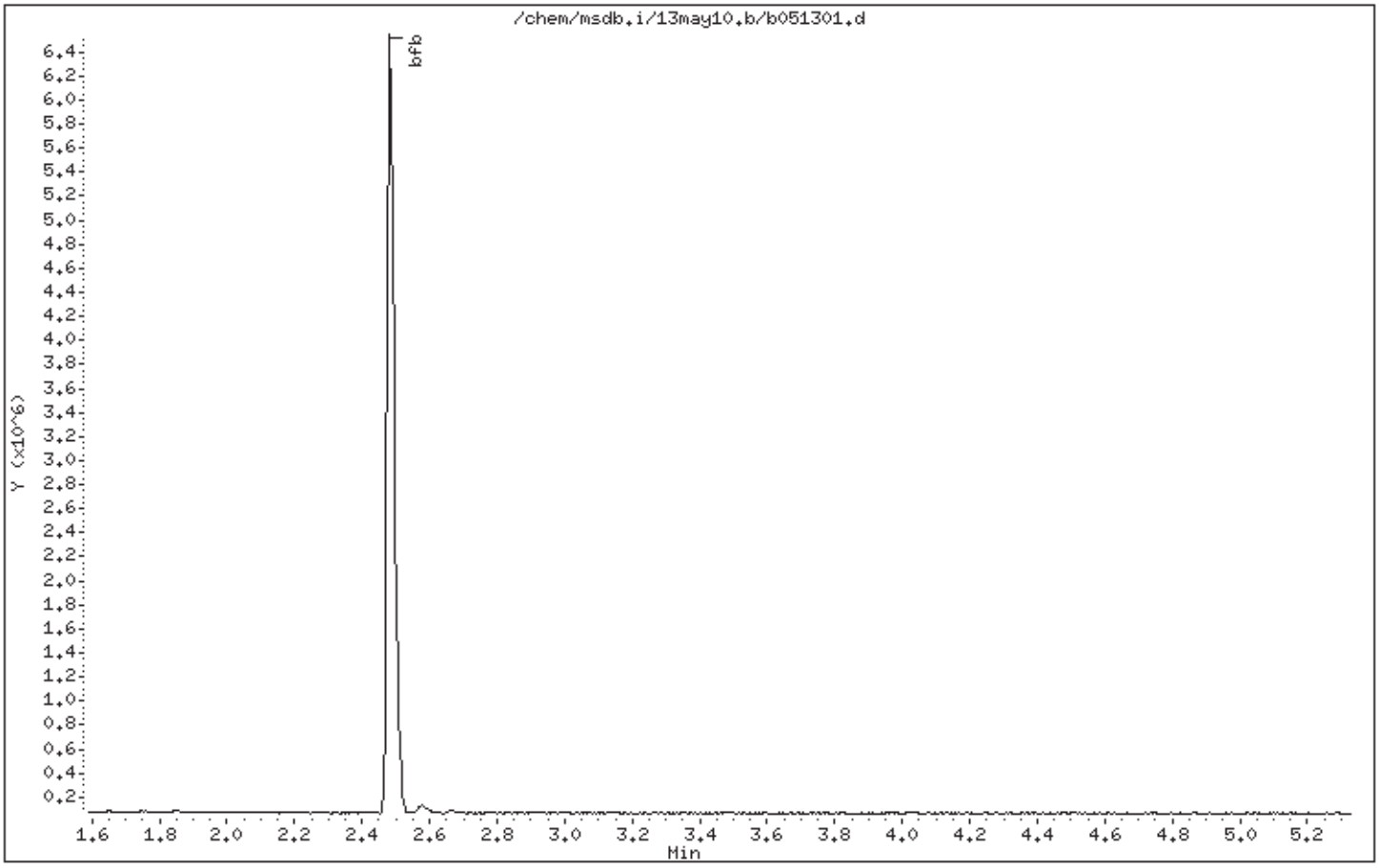
Date : 13-MAY-2010 04:43

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1513; BFB Tune Check;BFB

Volume Injected (uL): 1.0 Operator: dfm

Column phase: Column diameter: 2.00



Data File: /chem/msdb.i/13may10.b/b051301.d

Date : 13-MAY-2010 04:43

Client ID: BFB

Instrument: msdb.i

Sample Info: 2.0uL #1476-1513; BFB Tune Check;BFB

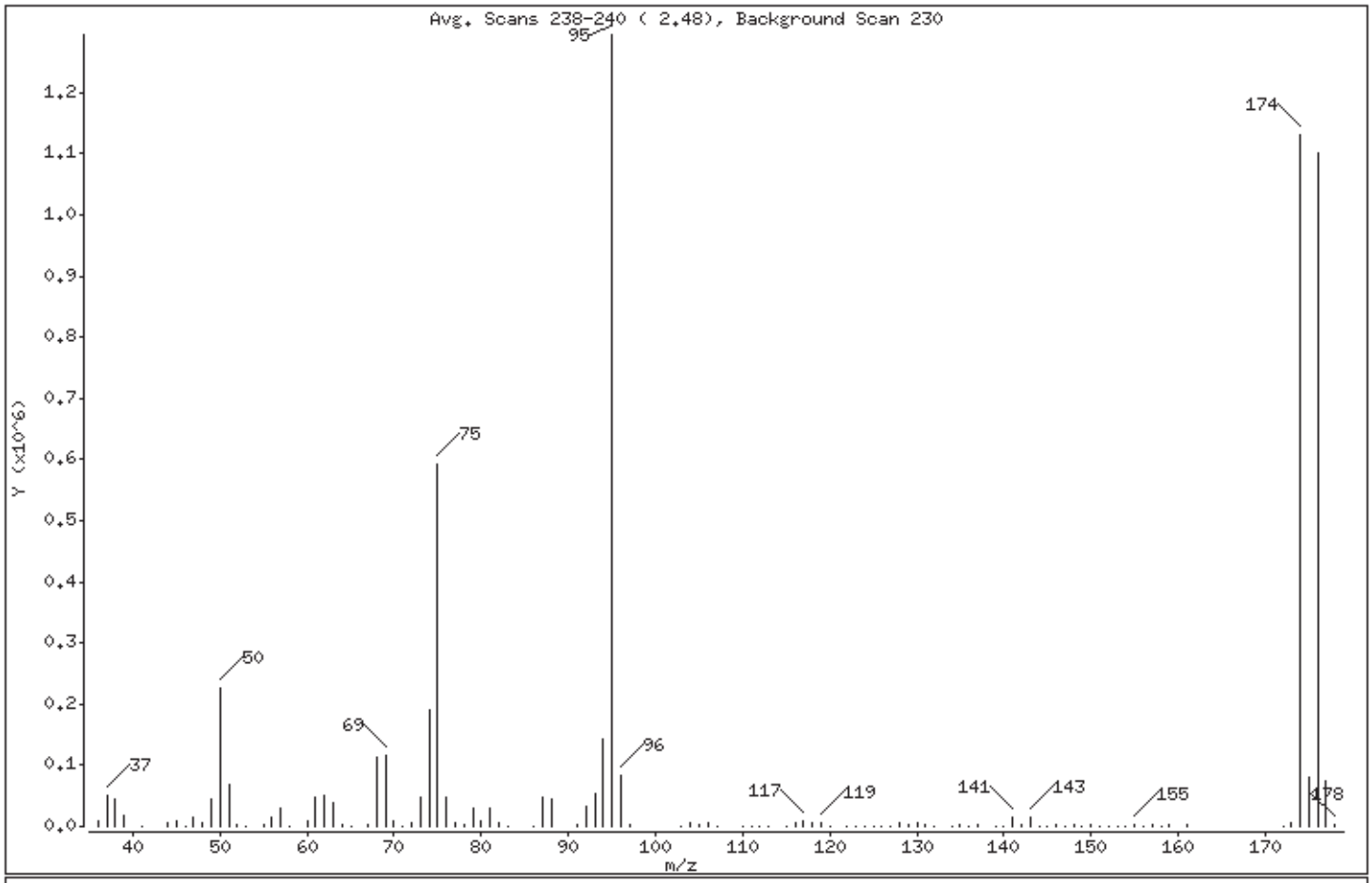
Volume Injected (uL): 1.0

Operator: dfm

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	17.49
75	30.00 - 60.00% of mass 95	45.70
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.46 (0.53)
174	50.00 - 100.00% of mass 95	87.37
175	5.00 - 9.00% of mass 174	6.28 (7.18)
176	95.01 - 100.99% of mass 174	85.13 (97.43)
177	5.00 - 9.00% of mass 176	5.64 (6.62)

Date : 13-MAY-2010 04:43

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1513; BFB Tune Check;BFB

Volume Injected (uL): 1.0 Operator: dfm

Column phase: Column diameter: 2.00

Data File: b051301.d
Spectrum: Avg. Scans 238-240 (2.48), Background Scan 230
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9231	70.00	8071	107.00	1485	141.00	14569
37.00	51512	71.00	229	110.00	797	142.00	1799
38.00	45808	72.00	5885	111.00	1104	143.00	15359
39.00	17936	73.00	46368	112.00	895	144.00	1130
41.00	235	74.00	189888	113.00	1155	145.00	1017
44.00	5069	75.00	591552	115.00	1350	146.00	2027
45.00	9688	76.00	49040	116.00	4876	147.00	1022
46.00	723	77.00	6090	117.00	8889	148.00	2996
47.00	14249	78.00	4033	118.00	4984	149.00	953
48.00	6354	79.00	29104	119.00	6589	150.00	1527
49.00	45584	80.00	8191	120.00	266	151.00	113
50.00	226368	81.00	31112	122.00	263	152.00	815
51.00	68056	82.00	6157	123.00	518	153.00	1271
52.00	2895	83.00	562	124.00	1036	154.00	871
53.00	67	86.00	1080	125.00	415	155.00	3512
55.00	2661	87.00	48120	126.00	691	156.00	373
56.00	15750	88.00	45456	127.00	419	157.00	2566
57.00	29848	91.00	4146	128.00	5365	158.00	107
58.00	1082	92.00	33816	129.00	2575	159.00	1981
60.00	8872	93.00	52408	130.00	4831	161.00	1832
61.00	48504	94.00	143552	131.00	1883	172.00	361
62.00	50520	95.00	1294336	132.00	345	173.00	5997
63.00	37696	96.00	83992	134.00	348	174.00	1131008
64.00	2953	97.00	2312	135.00	2361	175.00	81240
65.00	245	103.00	481	136.00	502	176.00	1101824
67.00	2598	104.00	5372	137.00	2681	177.00	73000
68.00	114344	105.00	2113	139.00	455	178.00	1695
69.00	117112	106.00	5560	140.00	713		

Air Toxics Ltd.

Data file : /var/chem/msdb.i/26may10.b/b052601.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 26-MAY-2010 21:23
Operator : ww Inst ID: msdb.i
Smp Info : 2.0uL #1476-1517;BFB;BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msdb.i/26may10.b/bfb20.m
Meth Date : 26-May-2010 21:25 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	
2.528	2.800	-0.272	95	276160			100.00- 100.00	100.00
2.528	2.800	-0.272	50	51210			15.00- 40.00	18.54
2.528	2.800	-0.272	75	131536			30.00- 60.00	47.63
2.528	2.800	-0.272	96	19040			5.00- 9.00	6.89
2.528	2.800	-0.272	173	1268			0.00- 2.00	0.56
2.528	2.800	-0.272	174	228266			50.00- 100.00	82.66
2.528	2.800	-0.272	175	16042			5.00- 9.00	7.03
2.528	2.800	-0.272	176	222229			95.01- 100.99	97.36
2.528	2.800	-0.272	177	15379			5.00- 9.00	6.92

Data File: /var/chem/msdb.i/26may10.b/b052601.d

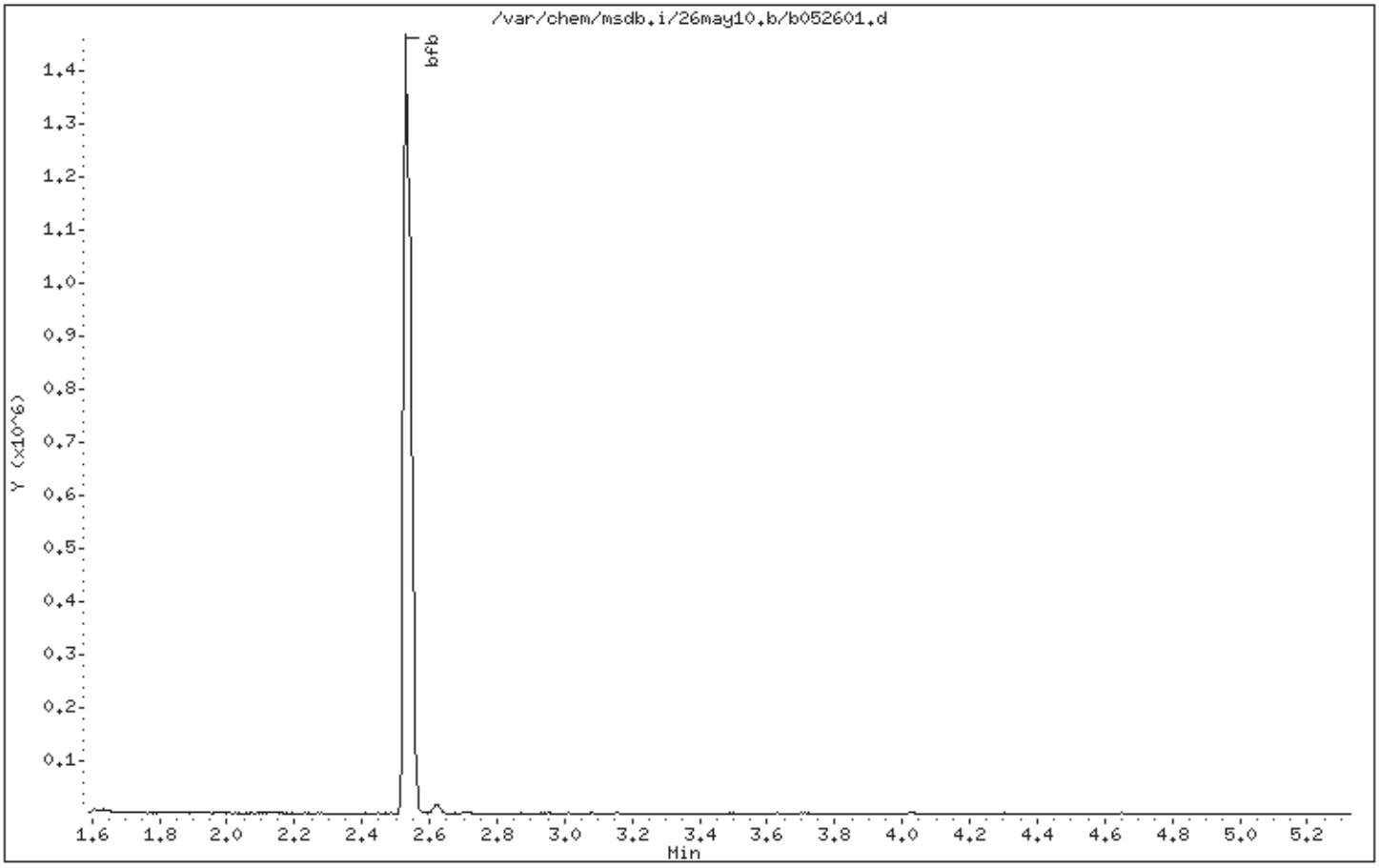
Date : 26-MAY-2010 21:23

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1517;BFB;BFB

Volume Injected (uL): 1.0 Operator: ww

Column phase: Column diameter: 2.00



Data File: /var/chem/msdb.i/26may10.b/b052601.d

Date : 26-MAY-2010 21:23

Client ID: BFB

Instrument: msdb.i

Sample Info: 2.0uL #1476-1517;BFB;BFB

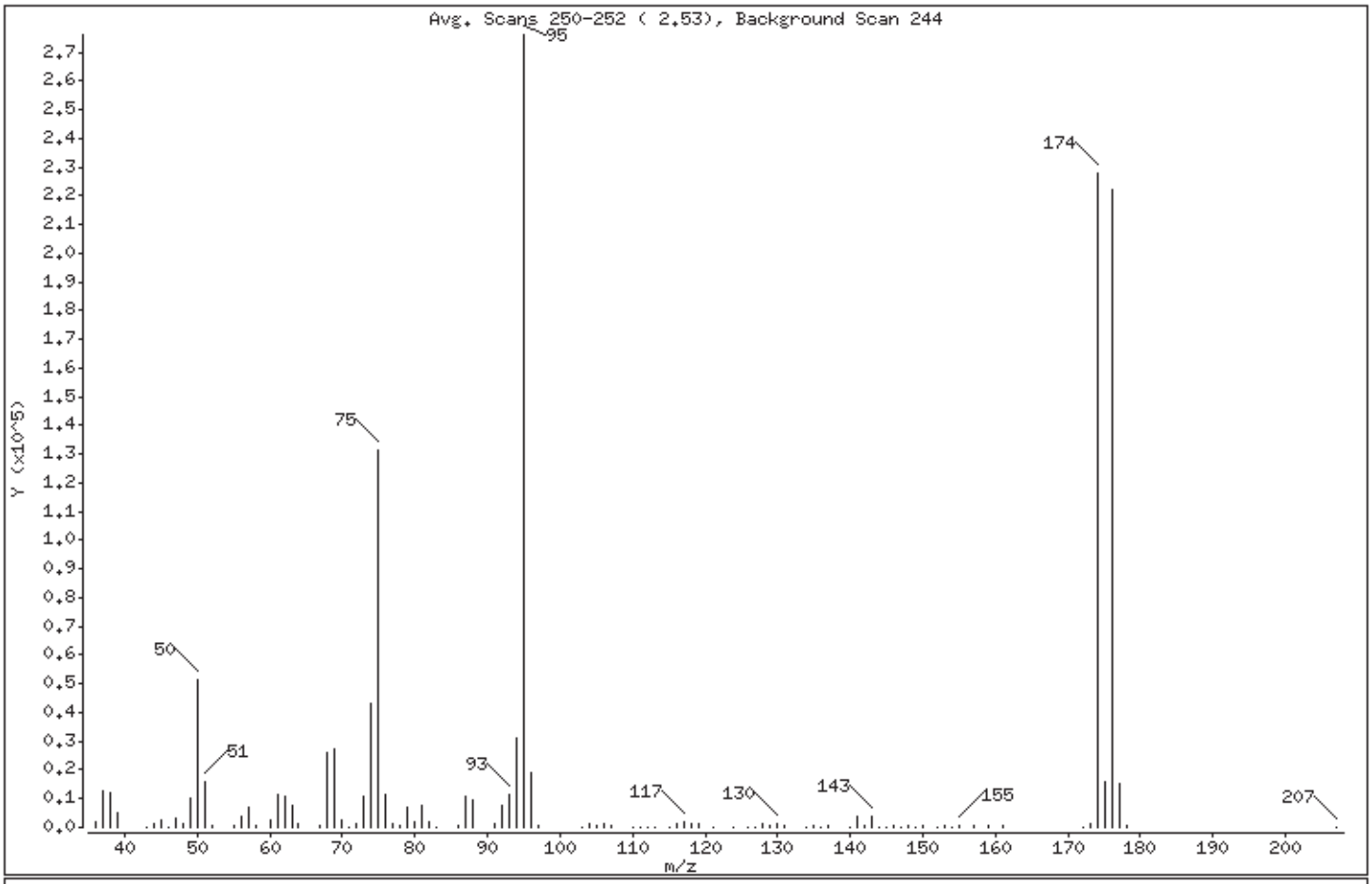
Volume Injected (uL): 1.0

Operator: ww

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	18.54
75	30.00 - 60.00% of mass 95	47.63
96	5.00 - 9.00% of mass 95	6.89
173	Less than 2.00% of mass 174	0.46 (0.56)
174	50.00 - 100.00% of mass 95	82.66
175	5.00 - 9.00% of mass 174	5.81 (7.03)
176	95.01 - 100.99% of mass 174	80.47 (97.36)
177	5.00 - 9.00% of mass 176	5.57 (6.92)

Date : 26-MAY-2010 21:23

Client ID: BFB Instrument: msdb.i

Sample Info: 2.0uL #1476-1517;BFB;BFB

Volume Injected (uL): 1.0 Operator: ww

Column phase: Column diameter: 2.00

Data File: b052601.d
Spectrum: Avg. Scans 250-252 (2.53), Background Scan 244
Location of Maximum: 95.00
Number of points: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2115	70.00	2287	105.00	337	142.00	345
37.00	12928	71.00	65	106.00	1418	143.00	3779
38.00	11837	72.00	1538	107.00	410	144.00	243
39.00	4941	73.00	10967	110.00	117	145.00	253
43.00	286	74.00	43064	111.00	300	146.00	426
44.00	1527	75.00	131520	112.00	146	147.00	190
45.00	2244	76.00	11493	113.00	272	148.00	740
46.00	251	77.00	1476	115.00	173	149.00	146
47.00	3233	78.00	746	116.00	1038	150.00	474
48.00	1313	79.00	6945	117.00	1851	152.00	126
49.00	10382	80.00	2102	118.00	1257	153.00	330
50.00	51208	81.00	7851	119.00	1552	154.00	139
51.00	15742	82.00	1619	121.00	56	155.00	479
52.00	645	83.00	62	124.00	208	157.00	456
55.00	623	86.00	349	126.00	144	159.00	397
56.00	4042	87.00	10654	127.00	63	161.00	478
57.00	6909	88.00	9737	128.00	1042	172.00	77
58.00	373	91.00	972	129.00	709	173.00	1268
60.00	2465	92.00	7598	130.00	1393	174.00	228224
61.00	11543	93.00	11336	131.00	610	175.00	16042
62.00	11077	94.00	31296	134.00	116	176.00	222208
63.00	7741	95.00	276160	135.00	595	177.00	15379
64.00	1075	96.00	19040	136.00	74	178.00	349
67.00	865	97.00	664	137.00	621	207.00	74
68.00	25832	103.00	148	140.00	158		
69.00	27304	104.00	1386	141.00	3763		

Air Toxics Ltd.

Data file : /chem/msdw.i/01jun10.b/w060101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 01-JUN-2010 15:41
Operator : gd Inst ID: msdw.i
Smp Info : 2.0ul #;1476-1514;bfb;bfb
Misc Info : bfb
Comment :
Method : /var/chem/msdw.i/01jun10.b/bfb20.m
Meth Date : 01-Jun-2010 15:41 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	
3.452	3.273	0.179	95	262037			100.00- 100.00	100.00
3.452	3.273	0.179	50	48559			15.00- 40.00	18.53
3.452	3.273	0.179	75	116581			30.00- 60.00	44.49
3.452	3.273	0.179	96	18210			5.00- 9.00	6.95
3.452	3.273	0.179	173	1559			0.00- 2.00	0.71
3.452	3.273	0.179	174	218709			50.00- 100.00	83.46
3.452	3.273	0.179	175	15604			5.00- 9.00	7.13
3.452	3.273	0.179	176	213290			95.01- 100.99	97.52
3.452	3.273	0.179	177	13653			5.00- 9.00	6.40

Data File: /chem/msdw.i/01jun10.b/w060101.d

Date : 01-JUN-2010 15:41

Client ID: BFB

Instrument: msdw.i

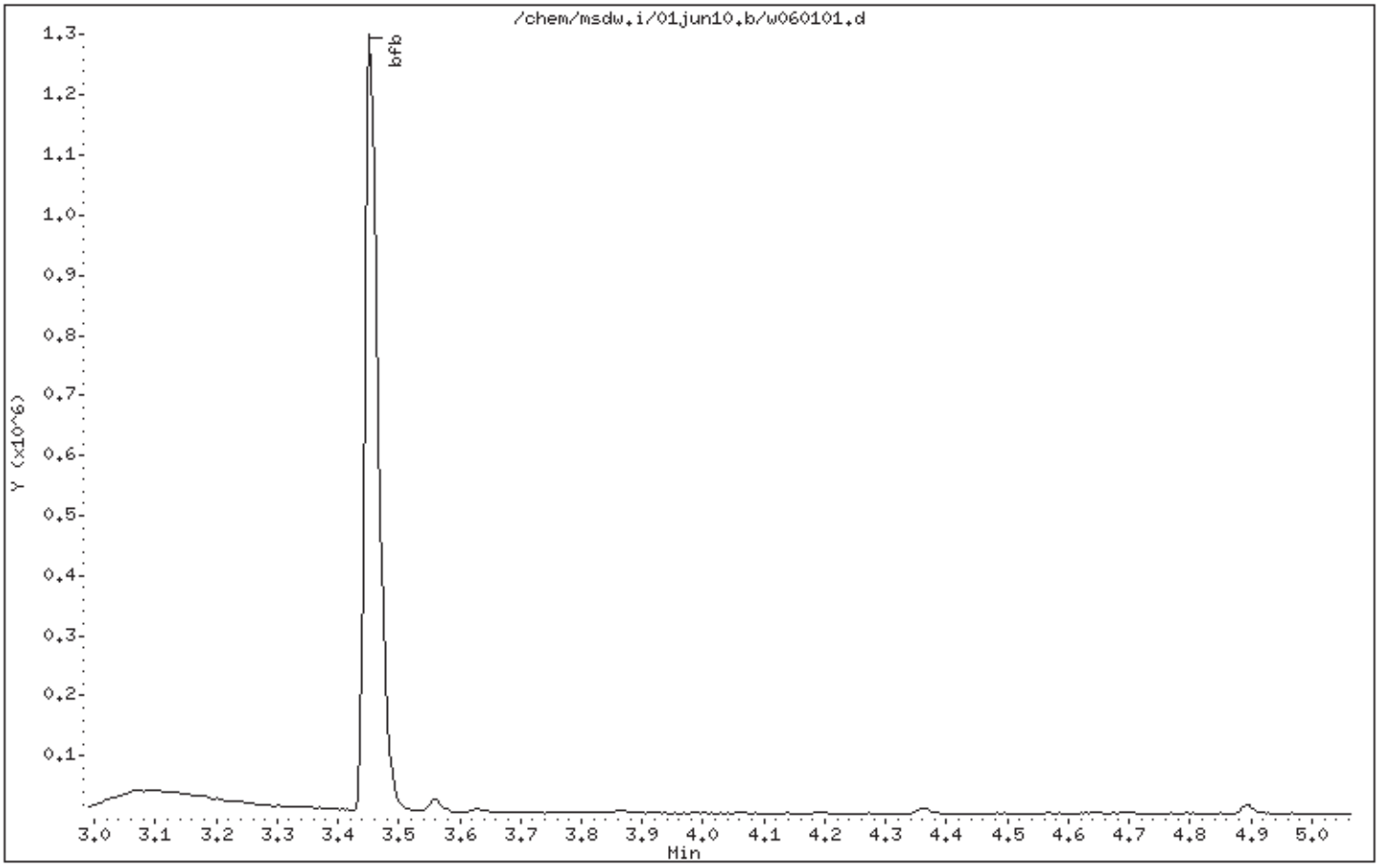
Sample Info: 2.0ul #:1476-1514:bfb:bfb

Volume Injected (uL): 1.0

Operator: gd

Column phase:

Column diameter: 2.00



Data File: /chem/msdw.i/01jun10.b/w060101.d

Date : 01-JUN-2010 15:41

Client ID: BFB

Instrument: msdw.i

Sample Info: 2.0ul #;1476-1514;bfb;bfb

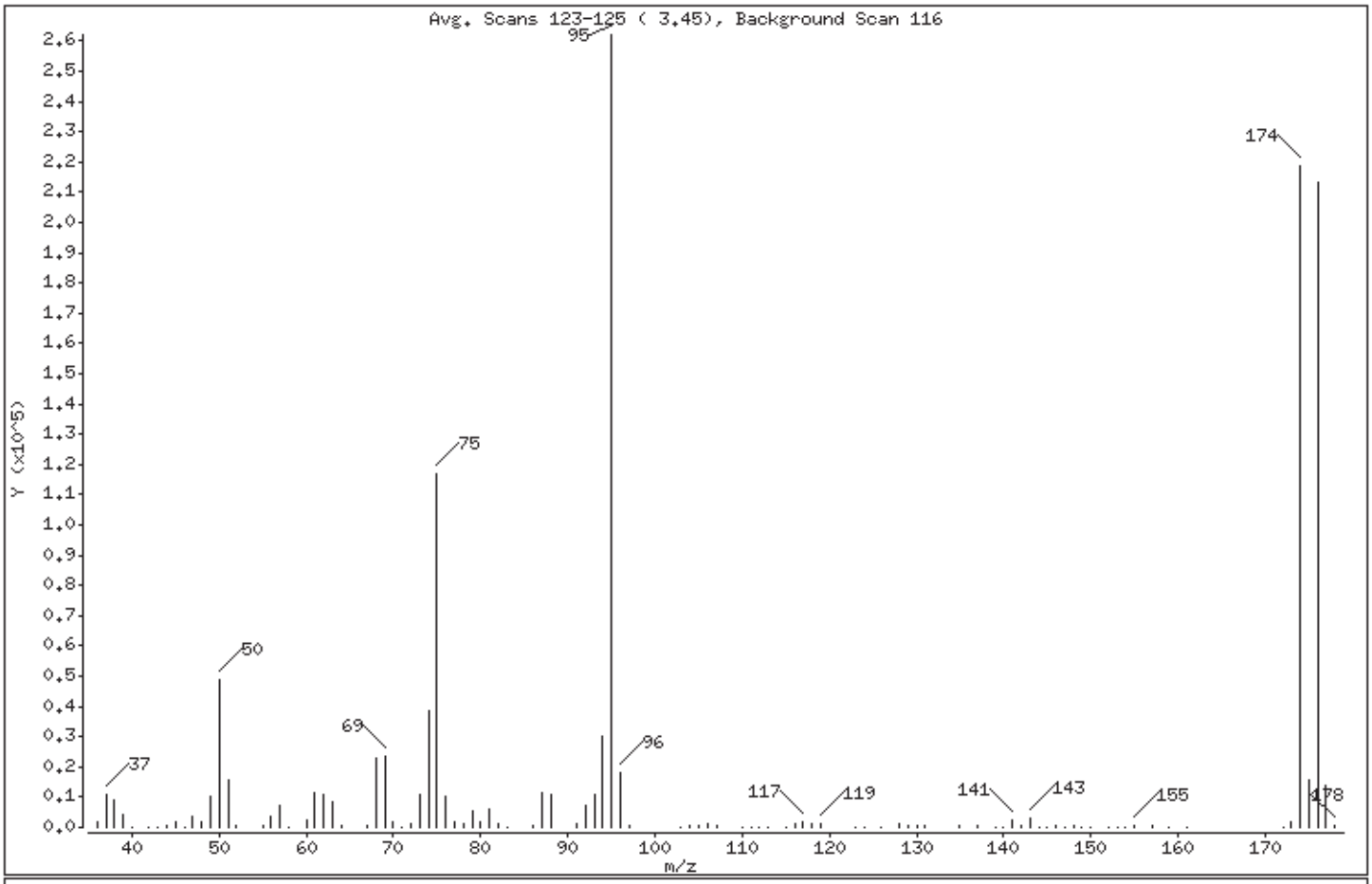
Volume Injected (uL): 1.0

Operator: gd

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	18.53
75	30.00 - 60.00% of mass 95	44.49
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.59 (0.71)
174	50.00 - 100.00% of mass 95	83.46
175	5.00 - 9.00% of mass 174	5.95 (7.13)
176	95.01 - 100.99% of mass 174	81.40 (97.52)
177	5.00 - 9.00% of mass 176	5.21 (6.40)

Data File: /chem/msdw.i/01jun10.b/w060101.d

Date : 01-JUN-2010 15:41

Client ID: BFB

Instrument: msdw.i

Sample Info: 2.0ul #;1476-1514;bfb;bfb

Volume Injected (uL): 1.0

Operator: gd

Column phase:

Column diameter: 2.00

Data File: w060101.d
Spectrum: Avg. Scans 123-125 (3.45), Background Scan 116
Location of Maximum: 95.00
Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1960	68.00	23096	103.00	56	142.00	369
37.00	10734	69.00	23240	104.00	895	143.00	2810
38.00	9304	70.00	1906	105.00	401	144.00	204
39.00	3936	71.00	54	106.00	1128	145.00	225
40.00	136	72.00	1219	107.00	324	146.00	430
42.00	96	73.00	10749	110.00	146	147.00	145
43.00	51	74.00	38304	111.00	166	148.00	684
44.00	321	75.00	116576	112.00	71	149.00	191
45.00	2055	76.00	10256	113.00	243	150.00	301
46.00	196	77.00	1519	115.00	269	152.00	59
47.00	3629	78.00	1157	116.00	996	153.00	188
48.00	1608	79.00	5327	117.00	1579	154.00	266
49.00	10195	80.00	1867	118.00	1011	155.00	614
50.00	48552	81.00	6179	119.00	1386	157.00	511
51.00	15531	82.00	1380	123.00	50	159.00	193
52.00	690	83.00	58	124.00	134	161.00	269
55.00	470	86.00	376	126.00	68	172.00	118
56.00	3529	87.00	11174	128.00	995	173.00	1559
57.00	6986	88.00	10924	129.00	461	174.00	218688
58.00	300	91.00	947	130.00	874	175.00	15604
60.00	2217	92.00	6930	131.00	427	176.00	213248
61.00	11204	93.00	10724	135.00	464	177.00	13653
62.00	10987	94.00	30168	137.00	561	178.00	383
63.00	8416	95.00	262016	139.00	57		
64.00	770	96.00	18208	140.00	186		
67.00	683	97.00	461	141.00	2629		

Air Toxics Ltd.

Data file : /var/chem/msdw.i/02jun10.b/w060203.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 02-JUN-2010 09:52
Operator : LL Inst ID: msdw.i
Smp Info : 2.0uL, 1476-1514;BFB
Misc Info : BFB
Comment :
Method : /var/chem/msdw.i/02jun10.b/bfb20.m
Meth Date : 02-Jun-2010 09:52 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 (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.418	3.273	0.145	95	546922			100.00- 100.00	100.00
3.418	3.273	0.145	50	101914			15.00- 40.00	18.63
3.418	3.273	0.145	75	244864			30.00- 60.00	44.77
3.418	3.273	0.145	96	36728			5.00- 9.00	6.72
3.418	3.273	0.145	173	3263			0.00- 2.00	0.71
3.418	3.273	0.145	174	457984			50.00- 100.00	83.74
3.418	3.273	0.145	175	34058			5.00- 9.00	7.44
3.418	3.273	0.145	176	449301			95.01- 100.99	98.10
3.418	3.273	0.145	177	28696			5.00- 9.00	6.39

Data File: /var/chem/msdw.i/02jun10.b/w060203.d

Page 1

Date : 02-JUN-2010 09:52

Client ID: BFB

Instrument: msdw.i

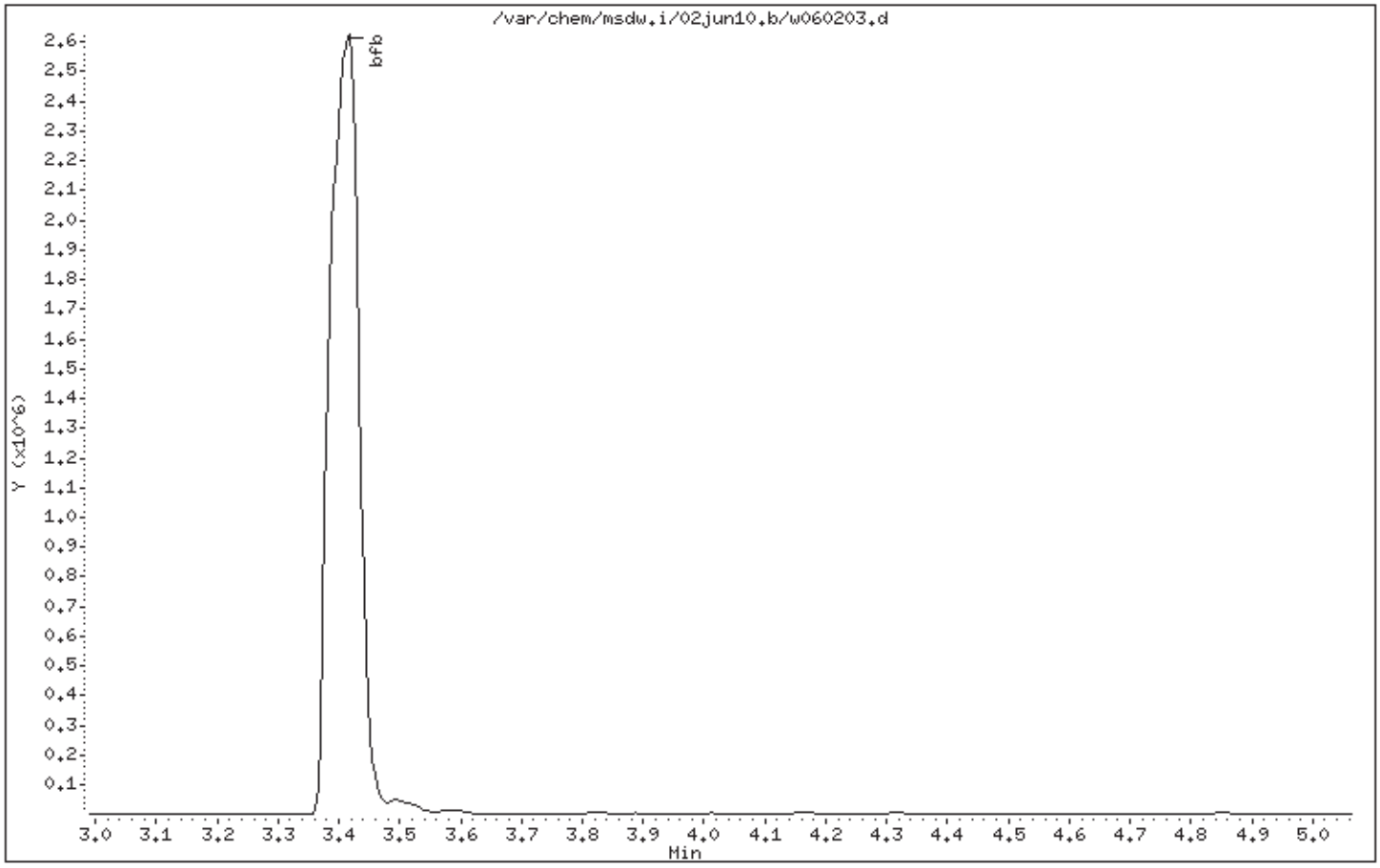
Sample Info: 2.0uL, 1476-1514;BFB

Volume Injected (uL): 1.0

Operator: LL

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdw.i/02jun10.b/w060203.d

Date : 02-JUN-2010 09:52

Client ID: BFB

Instrument: msdw.i

Sample Info: 2.0uL, 1476-1514;BFB

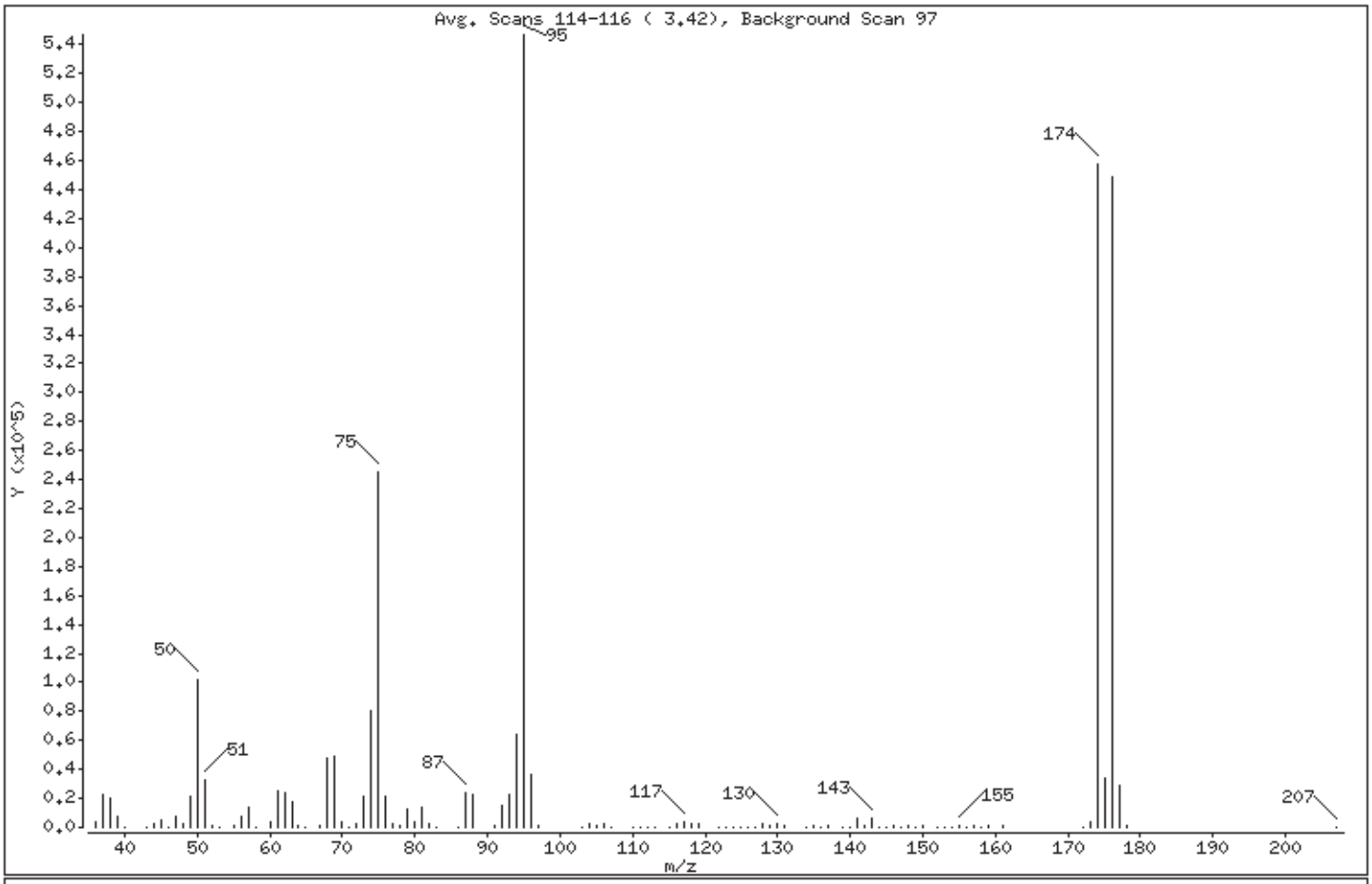
Volume Injected (uL): 1.0

Operator: LL

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	18.63
75	30.00 - 60.00% of mass 95	44.77
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.60 (0.71)
174	50.00 - 100.00% of mass 95	83.74
175	5.00 - 9.00% of mass 174	6.23 (7.44)
176	95.01 - 100.99% of mass 174	82.15 (98.10)
177	5.00 - 9.00% of mass 176	5.25 (6.39)

Date : 02-JUN-2010 09:52

Client ID: BFB Instrument: msdw.i

Sample Info: 2.0uL, 1476-1514;BFB

Volume Injected (uL): 1.0 Operator: LL

Column phase: Column diameter: 2.00

Data File: w060203.d
Spectrum: Avg. Scans 114-116 (3.42), Background Scan 97
Location of Maximum: 95.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4138	69.00	49400	106.00	2310	142.00	633
37.00	22704	70.00	3821	107.00	535	143.00	5965
38.00	19784	71.00	159	110.00	326	144.00	382
39.00	7760	72.00	2448	111.00	481	145.00	510
40.00	286	73.00	21720	112.00	320	146.00	843
43.00	123	74.00	80328	113.00	424	147.00	410
44.00	2619	75.00	244864	115.00	568	148.00	1559
45.00	4416	76.00	21256	116.00	1963	149.00	487
46.00	350	77.00	2818	117.00	3342	150.00	699
47.00	7638	78.00	1836	118.00	1973	152.00	315
48.00	3030	79.00	12295	119.00	2759	153.00	462
49.00	21328	80.00	3945	122.00	145	154.00	449
50.00	101912	81.00	13209	123.00	197	155.00	1640
51.00	32240	82.00	2927	124.00	302	156.00	178
52.00	1339	83.00	364	125.00	169	157.00	894
53.00	53	86.00	515	126.00	253	158.00	59
55.00	1449	87.00	23312	127.00	91	159.00	669
56.00	7192	88.00	23112	128.00	2024	161.00	638
57.00	14167	91.00	1760	129.00	1088	172.00	145
58.00	511	92.00	15215	130.00	2188	173.00	3263
60.00	4366	93.00	22024	131.00	838	174.00	457984
61.00	24576	94.00	63856	134.00	50	175.00	34056
62.00	23432	95.00	546880	135.00	1043	176.00	449280
63.00	17320	96.00	36728	136.00	179	177.00	28696
64.00	1603	97.00	1101	137.00	1058	178.00	800
65.00	125	103.00	224	139.00	71	207.00	50
67.00	1119	104.00	2176	140.00	305		
68.00	48136	105.00	849	141.00	5659		

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Karen Lopez at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th Pl #250 City: Bellevue State: WA Zip: 98007
Phone: 425-519-8774 Fax: 425-519-8799

Project Info:
P.O. #: —
Project #: 0907194.000.0001
Project Name: Heglar Kranquist

Turn Around Time:
[X] Normal
[ ] Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	D-1	33559	5-19-10	1423	TO-15, ASTM 1945, gas-range hydrocarbons	27.8	4.6		
02A	D-10	34445	5-19-10	1423	↓	28.0	4.8		
03A	Blank	4243	5-19-10	1952	Hold	27.0	8.0		
04A	GV-12	2416	5-16-10	2300	TO-15, gas-range petroleum hydrocarbons and ASTM D-1945	28.7	8.0		
11A	Trip Blank	4235	—	—	TO-15 and gas-range pet. hydrocarbons	—	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5.20.10 / 1600	Monica Gregersen ATL	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
5/21/10 850
- D-1 and D-10 are downhole samples
- GV-12 is also a downhole sample

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	(Yes) No None	1005522

Form 1293 rev.11

revised COC rec'd 5/27/10

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Project Manager: Melissa Kleven
Collected by: (Print and Sign) Eric Cherry
Company: Exponent Email: mkleven@exponent.com
Address: 15375 SE 30th Pl #250 City: Bellevue State: WA Zip: 98007
Phone: 425-519-8774 Fax: 425-519-8799

Project Info:
P.O. #: —
Project #: 0907194.000.0601
Project Name: Heglar Kranquist

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	D-1	33559	5-19-10	1423	TO-15, ASTM 1945, gas-range hydrocarbons	27.8	4.6		
02A	D-10	34445	5-19-10	1423	↓	28.0	4.8		
03A	Blank	4243	5-19-10	1952	Hold	27.0	8.0		
04A	Trip Blank	2416	—	—	TO-15, gas-range petroleum hydrocarbons	—	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	5.20.10 / 1600	Monica Gregersen ATL	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: 5/21/10 8:50

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes / No / None	1005522

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 1005522A

Client

Ms. Keri Whetter
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Sales Rep: JJM

Phone

425-519-8750

Fax

425-643-9827

Date Promised: 06/07/10
Date Completed: 6/8/10
Date Received: 5/21/10
PO#:
Project#: 0907194.000.0601 Heglar Kronquist

Total $: $ 1,408.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	D-1	Modified TO-15 (5&20 ppbv)	5/19/2010	5.4 "Hg	$170.00
02A	D-10	Modified TO-15 (5&20 ppbv)	5/19/2010	6.0 "Hg	$170.00
02AA	D-10 Lab Duplicate	Modified TO-15 (5&20 ppbv)	5/19/2010	6.0 "Hg	$0.00
03A(on hold)	Blank	Modified TO-15 (5&20 ppbv)	5/19/2010	9.0 "Hg	$0.00
04A	GV-12	Modified TO-15 (5&20 ppbv)	5/16/2010	4.0 "Hg	$170.00
11A	Trip Blank	Modified TO-15 (5&20 ppbv)	NA	28.5 "Hg	$170.00
12A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
12B	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
13A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
13B	CCV	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
14A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00
14B	LCS	Modified TO-15 (5&20 ppbv)	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (6) @ $45.00 each., Shipment 72423	$270.00
	6 Liter Summa Canister (3) @ $45.00 each., Shipment 72666	$135.00
	6 Liter Summa Canister (100% Certified) (2) @ $45.00 each., Shipme	$90.00
	Blue Body Flow Controller (5) @ $25.00 each., Shipment 72423	$125.00
	Blue Body Flow Controller (4) @ $25.00 each., Shipment 72666	$100.00
	Fitting w/ Pink Ferrule (4) @ $2.00 each.	$8.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Heglar Kronquist/14301

BILL TO: Ms. Keri Whetter
Exponent
15375 SE 30th Place
Suite 250
Bellevue, WA 98007

Analysis Code: TO-15 (5&20)

TERMS:

Reporting Method: Modified TO-15 (5&20 ppbv) + TPHg

Sample Discrepancy Report

Identification

Initiated By: MW **Project ID:**14301 **PM**: KL **Date:** 5/24/2010 **Discrepancy Type:** ☐ **1.** ☒ **2.** ☐ **3.**

Workorder(s) affected:1005522 **Sample(s) affected:** See below (11A)

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.

1.2. ☐ No brass cap on canister.

1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.

1.6. ☐ COC improperly relinquished / received.

1.7. ☐ Sample tags / can numbers do not match the COC.

1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).

1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).

1.10. ☐ ID-none on the sample Tag/Blank

1.11. ☐ Other (describe below).

Describe the Discrepancy: _____

2. Sample Receipt/Screening Discrepancies requiring PM notification

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

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

2.1. ☐ COC was not received with samples.

2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.

2.3. ☐ Incorrect sampling media / container for analysis requested.

2.4. ☒ Number of samples on the COC does not match the number of samples that were received.

2.5. ☐ Samples were received expired.

2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).

2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.

2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.

2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.

2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.

2.11. ☐ Environmental Supply Company valves

2.12. ☐ Sorbent samples-sampling volume was not provided

2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.

2.14. ☐ 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/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.

2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).

2.17. ☐ Canister Trip Blank received at low vacuum (< 25"Hg).

2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).

2.19. ☐ Other (describe below)

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Describe the Discrepancy: Extra can labeled "Field Blank" w/can # 4235 - analyze?

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

How Does this Affect Client: _____

Project Manager Use Only

Project Manager Notification ☒ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☒ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:KI Person notified: Melissa Kleven Date: 5/24/2010

☐ Waiting for Client Reply

Comments: **Spoke to the client regarding field blank. Told to put on hold.**

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☒

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

TPH Curve 05/6/2010 MSD - B

	Total Area	IS/Surr	System Peaks	TPH Area	Conc. (ppbv)	RF
Level 1	15465400	14746871	4459	714070	100	7140.70
Level 2	37868195	14238151	0	23630044	4000	5907.51
Level 3	104697303	14238151	0	90459152	15000	6030.61
					Average=	**6359.61**
					%RSD=	**10.68**

Prepared by: AB3 5/6/10

Reviewed by: JO 5/6/10

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msdb.i/26may10.b/b052605.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-MAY-2010 02:44
Operator : ww Inst ID: msdb.i
Smp Info : 2.0mL #1830-5
Misc Info : 100ppmv>4000ppbv
Comment :
Method : /var/chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 27-May-2010 02:30 edanek Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.243	96903	29146	0.301	0.34	
1.453	32608	18563	0.569	0.11	5 Propylene
1.579	211369	98552	0.466	0.74	13 Butane
1.649	27190	11915	0.438	0.10	
1.733	19563	9070	0.464	0.07	
1.942	6551	2575	0.393	0.02	
2.040	832686	284496	0.342	2.92	20 Isopentane
2.292	378505	96483	0.255	1.33	21 Pentane
2.432	88161	37339	0.424	0.31	
2.474	300202	95981	0.320	1.05	30 Ethanol
2.544	54128	24163	0.446	0.19	
2.586	171998	58202	0.338	0.60	2-Pentene
2.712	96178	26238	0.273	0.34	
2.950	3738	1145	0.306	0.01	
3.202	700708	117286	0.167	2.46	48 Methylene Chloride
3.454	218703	58883	0.269	0.77	Pentane, 3-methyl-
3.663	34110	10578	0.310	0.12	
3.747	169103	40288	0.238	0.59	55 Hexane
3.873	31993	10682	0.334	0.11	
3.971	177299	37363	0.211	0.62	2-Pentene, 4-methyl-,
4.055	40529	10735	0.265	0.14	
4.125	52913	11552	0.218	0.19	
4.279	153095	27423	0.179	0.54	Pentane, 2,4-dimethyl-
4.377	173038	55537	0.321	0.61	77 Cyclohexane

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
4.461	27639	7385	0.267	0.10			
4.755	4214	951	0.226	0.01			
4.839	15724	6727	0.428	0.06			
4.909	1033129	487500	0.472	3.63	*	75	Bromochloromethane
5.049	239103	53932	0.226	0.84		74	Tetrahydrofuran
5.119	222170	49695	0.224	0.78			Azetidine, 1-methyl-
5.244	282769	68281	0.241	0.99			Heptane, 4-methyl-
5.510	686451	214555	0.313	2.41		82	2,2,4-Trimethylpentane
5.552	1088566	354155	0.325	3.82	$	86	1,2-Dichloroethane-d4
5.734	219373	54519	0.249	0.77		93	Heptane
5.916	71013	17703	0.249	0.25			
6.014	1600548	576503	0.360	5.62	*	94	1,4-Difluorobenzene
6.182	31548	9051	0.287	0.11			
6.364	189174	52992	0.280	0.66		97	Methyl Cyclohexane
6.434	190678	39138	0.205	0.67			Heptane, 2,4-dimethyl-
6.588	31773	9425	0.297	0.11			
6.658	26143	6110	0.234	0.09			
6.868	295456	83382	0.282	1.04			Heptane, 4-methyl-
7.021	255375	71174	0.279	0.90			Pentane, 2,3,3-trimeth
7.063	182385	49966	0.274	0.64			2,4-Heptadiene, (E,E)-
7.147	126315	31131	0.246	0.44			Hexane, 2,5-dimethyl-
7.203	92057	23967	0.260	0.32			
7.371	177250	30088	0.170	0.62			Pentane, 2,3,3,4-tetra
7.581	105335	21964	0.209	0.37			Hexane, 2,2,4-trimethy
7.651	50555	14054	0.278	0.18			
7.819	1814836	636650	0.351	6.37	$	110	Toluene-d8
7.903	2683501	895157	0.334	19.77		108	cis-1,3-Dichloropropen
8.099	25326	5486	0.217	0.09			
8.239	19804	7447	0.376	0.07			
8.309	46167	11976	0.259	0.16			
8.393	11394	3931	0.345	0.04			
8.533	15423	4066	0.264	0.05			
8.630	27944	8919	0.319	0.10			
8.672	21602	7612	0.352	0.08			
8.728	10538	4499	0.427	0.04			
8.770	11632	4482	0.385	0.04			
8.812	13331	3976	0.298	0.05			
8.952	20843	6297	0.302	0.07			
9.036	76188	22561	0.296	0.27			
9.134	43152	15556	0.360	0.15			
9.218	19108	6157	0.322	0.07			
9.302	1964636	1148440	0.585	6.90	*	125	Chlorobenzene-d5
9.400	549216	337754	0.615	1.93		128	Ethyl Benzene
9.694	16378	5088	0.311	0.06			
9.946	13855	5772	0.417	0.05			
10.072	55917	36888	0.660	0.20		138	Cumene
10.142	54316	21604	0.398	0.19			
10.212	2354269	1766819	0.750	8.27	$	139	Bromofluorobenzene
10.268	29811	11514	0.386	0.10			
10.351	186146	143992	0.774	0.65		143	Propylbenzene

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.407	1061300	545102	0.514	3.73	147 4-Ethyltoluene
10.463	388414	209555	0.540	1.36	149 1,3,5-Trimethylbenzene
10.589	278679	182885	0.656	0.98	Benzene, 1-ethyl-3-met
10.701	1063900	741308	0.697	3.74	152 1,2,4-Trimethylbenzene
10.771	64236	25759	0.401	0.23	
10.841	46217	20251	0.438	0.16	
10.911	51018	24203	0.474	0.18	
10.939	210660	142288	0.675	0.74	Benzene, 1-ethyl-3-met
11.051	207566	124962	0.602	0.73	161 alpha-Chlorotoluene
11.093	233094	107204	0.460	0.82	Benzene, 1-methyl-2-(1
11.149	14357	7485	0.521	0.05	
11.191	37522	29211	0.778	0.13	
11.247	104669	45651	0.436	0.37	Benzene, 1-methyl-3-(1
11.289	89639	64293	0.717	0.31	
11.359	38219	21935	0.574	0.13	
11.457	18197	13028	0.716	0.06	
11.527	103792	39091	0.377	0.36	Benzene, 1,2,3,5-tetra
11.569	20062	8477	0.423	0.07	
11.681	24736	16678	0.674	0.09	
11.765	46005	23281	0.506	0.16	
11.919	8913	3987	0.447	0.03	
11.989	5585	3688	0.660	0.02	
12.100	13837	8782	0.635	0.05	
12.604	4626 545	1407	0.304	0.02	
	28482238	12600575		100.000	

Total unknown % area = 20.730

$$\frac{28482238 - 9,185,024 - 832,048}{4000} =$$

$$\frac{4,616.29}{6359.61} = 72.59\%$$

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052606.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 27-MAY-2010 03:11
Operator : ww Inst ID: msdb.i
Smp Info : 50mL #34261
Misc Info : Humid
Comment :
Method : /var/chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 27-May-2010 02:30 edanek Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.243	3155078	1093664	0.347	25.39	UNKNOWN
1.621	77415	9845	0.127	0.62	
2.516	3154	1489	0.472	0.03	
4.909	955040	466445	0.488	7.68	* 75 Bromochloromethane
5.552	601163	283225	0.471	4.83	$ 86 1,2-Dichloroethane-d4
6.014	1580973	615161	0.389	12.71	* 94 1,4-Difluorobenzene
7.819	1834586	660800	0.360	14.75	$ 110 Toluene-d8
9.302	1927810	1172679	0.608	15.50	* 125 Chlorobenzene-d5
10.212	2285452	1743399	0.763	18.38	$ 139 Bromofluorobenzene
10.477	5761	4277	0.742	0.05	
11.569	3707	2746	0.741	0.03	
12.870	4056	983	0.242	0.03	
	12434196	6054713		100.000	

Total unknown % area = 26.150

is/surr = 9,185,024

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052612.d
Lab Smp Id: 1005522A-01A
Inj Date : 27-MAY-2010 12:03
Operator : ED Inst ID: msdb.i
Smp Info : 50.0ml #33559
Misc Info : 5.4"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.63000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
1.257	17536808	5781176	0.330	44.07			UNKNOWN
1.439	168034	49328	0.294	0.42			Propane, 2-methyl-
1.551	180436	73259	0.406	0.45			2-Butene, (Z)-
1.607	95434	22545	0.236	0.24			UNKNOWN
1.733	50581	18368	0.363	0.13			UNKNOWN
*1.872	1663874	588004	0.353	4.18			
2.012	24183	7052	0.292	0.06			
2.292	22293	4100	0.184	0.06			
2.572	6576	1723	0.262	0.02			
2.880	157624	69558	0.441	0.40		38	Acetone
3.020	12058	4368	0.362	0.03			
3.188	7404	1952	0.264	0.02			
3.244	179108	52252	0.292	0.45			UNKNOWN
3.426	22016	7445	0.338	0.06			
3.649	4947	1658	0.335	0.01			
3.747	7009	1417	0.202	0.02			
3.971	6449	1573	0.244	0.02			
4.489	6485	1391	0.214	0.02			
*4.629	2349583	906620	0.386	5.91			
4.839	23862	8200	0.344	0.06			
4.909	997328	435805	0.437	2.51	*	75	Bromochloromethane
5.105	4440	1375	0.310	0.01			
*5.356	6887724	1471987	0.214	17.31			
5.552	656610	295532	0.450	1.65	$	86	1,2-Dichloroethane-d4

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.678	12562	5505	0.438	0.03	
6.014	1565658	634355	0.405	3.94	* 94 1,4-Difluorobenzene
6.784	5387	2273	0.422	0.01	
7.609	5088	1518	0.298	0.01	
7.665	9457	2593	0.274	0.02	
7.819	1819544	658642	0.362	4.57	$ 110 Toluene-d8
8.099	39872	18867	0.473	0.10	
8.281	295609	72061	0.244	0.74	Siloxane
8.463	4101	1402	0.342	0.01	
8.686	8325	3456	0.415	0.02	
8.896	7281	4110	0.564	0.02	
9.162	72278	26019	0.360	0.18	Siloxane
9.302	1925610	1198454	0.622	4.84	* 125 Chlorobenzene-d5
9.750	376173	196661	0.523	0.95	Siloxane 1,3-Dioxa-2,4,6-trisil
10.100	3770	1641	0.435	0.01	
10.156	22588	12856	0.569	0.06	
10.212	2310630	1770823	0.766	5.81	$ 139 Bromofluorobenzene
10.268	32952	19430	0.590	0.08	System
10.463	90644	60942	0.672	0.23	Siloxane
10.617	48917	33649	0.688	0.12	
11.037	7171	4015	0.560	0.02	
11.205	3561	1573	0.442	0.01	System
11.317	7594	2846	0.375	0.02	Siloxane
11.387	8900	6194	0.696	0.02	
11.541	3687	2335	0.633	0.01	
11.653	16260	10091	0.621	0.04	
11.793	9706	7696	0.793	0.02	
	39784192	14566695		100.000	

Total unknown % area = 76.280

TPHg = ND

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052613.d
Lab Smp Id: 1005522A-02A
Inj Date : 27-MAY-2010 12:45
Operator : ED Inst ID: msdb.i
Smp Info : 50.0ml #34445
Misc Info : 6.0"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

6-8-10

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
1.243	16628625	5899005	0.355	37.68			UNKNOWN
1.425	181764	88636	0.488	0.41		12	Chloromethane
1.537	186547	101893	0.546	0.42			1-Propene, 2-methyl-
1.607	86502	25760	0.298	0.20			UNKNOWN
1.718	51212	16905	0.330	0.12			Silane, fluorotrimethy
1.858	2410463	844141	0.350	5.46			
2.012	35014	11186	0.319	0.08			
2.264	38211	5998	0.157	0.09			
2.432	7402	1559	0.211	0.02			
2.530	9931	2417	0.243	0.02			
2.586	10489	2783	0.265	0.02			
2.684	4764	1773	0.372	0.01			
2.880	220356	89924	0.408	0.50		38	Acetone
3.020	13180	5069	0.385	0.03			
3.244	264644	80190	0.303	0.60			UNKNOWN
3.411	36998	11646	0.315	0.08			
3.649	7655	2554	0.334	0.02			
3.719	4601	1553	0.338	0.01			
3.957	5598	1814	0.324	0.01			
4.265	4218	1195	0.283	0.01			
4.447	3547	1733	0.489	0.01			
4.615	3742967	1525234	0.407	8.48			
4.839	35232	10021	0.284	0.08			
4.895	893868	416079	0.465	2.03	*	75	Bromochloromethane

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
5.007	5657	2009	0.355	0.01			
5.342	10177489	2244835	0.221	23.06			Silane, 1,4-phenyleneb
5.552	606912	253002	0.417	1.38	$	86	1,2-Dichloroethane-d4
5.678	32220	9858	0.306	0.07			
5.916	4508	1166	0.259	0.01			
6.014	1411570	561833	0.398	3.20	*	94	1,4-Difluorobenzene
6.658	3460	1065	0.308	0.01			
6.784	7321	2540	0.347	0.02			
6.909	4918	1459	0.297	0.01			
7.651	20189	3517	0.174	0.05			
7.819	1647060	594214	0.361	3.73	$	110	Toluene-d8
8.099	62015	27098	0.437	0.14			
8.281	437770	111097	0.254	0.99			
8.463	9896	2867	0.290	0.02			
8.686	13369	4497	0.336	0.03			
8.798	3826	1245	0.325	0.01			
8.896	18402	9385	0.510	0.04			
9.162	109341	38670	0.354	0.25			Trisiloxane, octamethy
9.302	1713256	1110086	0.648	3.88	*	125	Chlorobenzene-d5
9.750	581634	313796	0.540	1.32			1,3-Dioxa-2,4,6-trisil
10.016	4504	1829	0.406	0.01			
10.100	6529	2711	0.415	0.01			
10.156	31287	18714	0.598	0.07			
10.211	2017083	1569879	0.778	4.57	$	139	Bromofluorobenzene
10.267	48069	30597	0.637	0.11			
10.463	132615	91099	0.687	0.30			UNKNOWN
10.617	73556	49124	0.668	0.17			
11.037	8478	4737	0.559	0.02			
11.079	3947	1626	0.412	0.01			
11.317	5570	4309	0.774	0.01			
11.401	10421	8411	0.807	0.02			
11.541	3778	2786	0.737	0.01			
11.653	18483	13171	0.713	0.04			
11.807	12243	8711	0.711	0.03			
	44131168	16251011		100.000			

Total unknown % area = 80.300

TMS = ND

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052614.d
Lab Smp Id: 1005522A-02AA
Inj Date : 27-MAY-2010 13:06
Operator : ED Inst ID: msdb.i
Smp Info : 50.0ml #34445
Misc Info : 6.0"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

JO 6.8.10

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.271	21086888	6560679	0.311	38.79	UNKNOWN
1.439	291837	97136	0.333	0.54	UNKNOWN
1.551	266878	113570	0.426	0.49	12 Chloromethane
1.621	63490	19674	0.310	0.12	UNKNOWN
1.733	75526	22068	0.292	0.14	
1.887	2957937	957095	0.324	5.44	
2.026	40652	11972	0.294	0.07	
2.278	39224	7009	0.179	0.07	
2.418	4413	1288	0.292	0.01	
2.530	8785	2343	0.267	0.02	
2.586	13480	4107	0.305	0.02	
2.712	10693	2255	0.211	0.02	
2.894	274262	110675	0.404	0.50	38 Acetone
3.020	14500	5124	0.353	0.03	
3.104	3104	1235	0.398	0.01	
3.258	318639	95307	0.299	0.59	UNKNOWN
3.426	49687	13712	0.276	0.09	
3.650	8682	2537	0.292	0.02	
3.733	10478	2324	0.222	0.02	
3.985	6065	2006	0.331	0.01	
4.279	4663	1163	0.249	0.01	
4.475	12430	2541	0.204	0.02	
4.629	4782106	2006528	0.420	8.80	
4.839	41044	14035	0.342	0.08	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.909	1052934	481355	0.457	1.94	* 75 Bromochloromethane
5.133	18714	3098	0.166	0.03	
5.231	10015	2278	0.227	0.02	
5.356	12554925	2723071	0.217	23.10	
5.552	707264	295700	0.418	1.30	$ 86 1,2-Dichloroethane-d4
5.692	44598	12937	0.290	0.08	
6.014	1587318	618366	0.390	2.92	* 94 1,4-Difluorobenzene
6.798	8791	3302	0.376	0.02	
6.910	5342	1478	0.277	0.01	
7.651	13107	3494	0.267	0.02	
7.819	1833431	656859	0.358	3.37	$ 110 Toluene-d8
8.099	74079	34760	0.469	0.14	
8.281	535425	130382	0.244	0.99	
8.449	11332	3285	0.290	0.02	
8.687	17789	5593	0.314	0.03	
8.798	3209	1345	0.419	0.01	
8.896	22763	10883	0.478	0.04	
9.162	138416	49211	0.356	0.25	Trisiloxane, octamethy
9.302	1902641	1180943	0.621	3.50	* 125 Chlorobenzene-d5
9.750	734161	395715	0.539	1.35	1,3-Dioxa-2,4,6-trisil
10.016	4832	2423	0.501	0.01	
10.114	6958	2883	0.414	0.01	
10.156	36813	23337	0.634	0.07	
10.212	2262270	1697459	0.750	4.16	$ 139 Bromofluorobenzene
10.268	56356	35654	0.633	0.10	
10.464	161228	111850	0.694	0.30	UNKNOWN
10.617	87532	60954	0.696	0.16	
10.757	3420	2665	0.779	0.01	
11.037	14952	7065	0.473	0.03	
11.303	6214	3760	0.605	0.01	
11.387	12408	8990	0.725	0.02	
11.541	5417	3590	0.663	0.01	
11.653	22031	12997	0.590	0.04	
11.793	13253	9887	0.746	0.02	
	54355405	18653952		100.000	

Total unknown % area = 81.820

TIC-MD

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdb.i/26may10.b/b052620.d
Lab Smp Id: 1005522A-04A
Inj Date : 27-MAY-2010 19:07
Operator : gd Inst ID: msdb.i
Smp Info : 50mL #35285
Misc Info : 4.0"Hg -> 5.0 Psi
Comment :
Method : /chem/msdb.i/26may10.b/b1050504c.m
Meth Date : 28-May-2010 23:17 wwong Quant Type: AREA%
Cal Date : 13-MAY-2010 10:44 Cal File: b051311.d
Als bottle: 1
Dil Factor: 1.55000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable 6-8-10

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
1.257	14689486	3937565	0.268	50.59			UNKNOWN
1.397	21163	11214	0.530	0.07			
1.439	31634	18731	0.592	0.11			
1.509	18420	5950	0.323	0.06		12	Chloromethane
1.551	49415	20274	0.410	0.17			1-Propene, 2-methyl-
1.607	30968	11422	0.369	0.11			
1.747	540660	239091	0.442	1.86			
1.873	1075351	366059	0.340	3.70			
2.026	15316	3315	0.216	0.05			
2.264	8042	1778	0.221	0.03			
2.502	3967	1241	0.313	0.01			
2.894	19769	6633	0.336	0.07			
3.314	19497	8446	0.433	0.07		48	Methylene Chloride
4.125	3979	1864	0.468	0.01			
4.629	3525	1202	0.341	0.01			
4.685	5309	1650	0.311	0.02			
4.909	935210	448717	0.480	3.22	*	75	Bromochloromethane
5.356	3288537	710772	0.216	11.32			
5.552	614803	283863	0.462	2.12	$	86	1,2-Dichloroethane-d4
6.014	1514471	594758	0.393	5.21	*	94	1,4-Difluorobenzene
7.819	1789040	635221	0.355	6.16	$	110	Toluene-d8
8.281	163486	41326	0.253	0.56			
9.162	31653	11346	0.358	0.11			
9.302	1858289	1134281	0.610	6.40	*	125	Chlorobenzene-d5

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.750	19051	9364	0.492	0.07	
10.212	2204907	1696037	0.769	7.59	$ 139 Bromofluorobenzene
10.268	16386	8456	0.516	0.06	
10.464	41984	27949	0.666	0.14	
10.617	26172	17870	0.683	0.09	
11.653	4131	2690	0.651	0.01	
	29044621	10259085		100.000	

Total unknown % area = 69.170

TPH Curve 05/28/10 MSD-W

	Total Area	IS/Surr	System Peaks	TPH Area	Conc. (ppbv)	RF
Level 1	6570177	6268933 ✓	89094	212150	100	2121.50
Level 2	16139471	6293353 ✓	102818	9743300	4000	2435.83
Level 3	48986843	6293353	29262	42664228	15000	2844.28
					Average=	**2467.20**
					%RSD=	**14.69**

Prepared by: ww 05/29/10

Reviewed by: fo 6/2/10

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msdw.i/02jun10.b/w060206.d
Lab Smp Id: 1830-5 Client Smp ID: TPHg CCV
Inj Date : 02-JUN-2010 11:03
Operator : LL Inst ID: msdw.i
Smp Info : 2.0ml,30839
Misc Info : TPHg CCV
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: AREA%
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS
1.271	9214	2958	0.321	0.05		
1.341	19347	5043	0.261	0.11		
1.635	24177	14060	0.582	0.14	5	Propylene
1.775	141178	79107	0.560	0.82	11	Butane
1.858	19650	7602	0.387	0.11		
1.970	13285	6428	0.484	0.08		
2.320	562067	241293	0.429	3.25	17	Isopentane
2.544	17486	7647	0.437	0.10		
2.586	239049	82814	0.346	1.38	27	Pentane
2.754	63747	32672	0.513	0.37		Cyclopropane, 1,1-dime
2.796	194555	65698	0.338	1.13	25	Ethanol
2.880	51400	17325	0.337	0.30		
2.936	145960	59469	0.407	0.84		2-Butene, 2-methyl-
3.062	65949	22373	0.339	0.38		Butane, 2,2-dimethyl-
3.593	343130	104859	0.306	1.99		Pentane, 2-methyl-
3.677	87902	20649	0.235	0.51	45	Methylene Chloride
3.859	148996	55117	0.370	0.86		Pentane, 3-methyl-
4.083	26112	9938	0.381	0.15		
4.167	101590	39999	0.394	0.59	52	Hexane
4.293	19929	8635	0.433	0.12		
4.349	38193	15117	0.396	0.22		
4.405	64660	26801	0.414	0.37		2-Pentene, 2-methyl-
4.489	18045	7411	0.411	0.10		
4.573	19993	8182	0.409	0.12		

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
4.685	34935	14786	0.423	0.20			
4.727	69098	21743	0.315	0.40			Ether, heptyl hexyl
4.839	97539	38814	0.398	0.56			Cyclobutane, ethyl-
4.909	18745	6521	0.348	0.11			
5.370	793858	306054	0.386	4.60	*	73	Bromochloromethane
5.510	130345	53423	0.410	0.75		72	Tetrahydrofuran
5.608	125757	38208	0.304	0.73		76	Cyclohexane
5.720	169372	63014	0.372	0.98			Hexane, 3-methyl-
6.028	1098853	258896	0.236	6.36	$	88	1,2-Dichloroethane-d4
6.224	140586	54258	0.386	0.81		91	Heptane
6.406	37667	11395	0.303	0.22			
6.490	1187513	509107	0.429	6.87	*	93	1,4-Difluorobenzene
6.672	22305	6204	0.278	0.13			
6.854	126924	50645	0.399	0.73		97	Methyl Cyclohexane
6.910	82463	31972	0.388	0.48			
6.979	16627	7182	0.432	0.10			
7.049	16501	6786	0.411	0.10			
7.259	174146	82870	0.476	1.01			Pentane, 2,3,4-trimeth
7.371	227769	74777	0.328	1.32			Pentane, 2,3,3-trimeth
7.441	106806	43958	0.412	0.62			Hexane, 2,5-dimethyl-
7.567	107545	42432	0.395	0.62			Heptane, 3-methyl-
7.693	64542	32748	0.507	0.37			
7.749	18341	7232	0.394	0.11			
7.847	1403766	898202	0.640	8.13	$	108	Toluene-d8
7.903	1358072	771294	0.568	7.86		106	cis-1,3-Dichloropropen
8.155	33407	11943	0.357	0.19			
8.225	8670	4636	0.535	0.05			
8.295	9002	3830	0.425	0.05			
8.379	18181	8606	0.473	0.11			
8.687	37667	21258	0.564	0.22			
8.770	20465	13483	0.659	0.12			
8.924	1485162	1141619	0.769	8.60	*	126	Chlorobenzene-d5
8.994	291900	177551	0.608	1.69		129	Ethyl Benzene
9.064	1103134	898401	0.814	6.39		125	1,2-Dibromoethane
9.526	32332	22243	0.688	0.19			
9.568	30134	16293	0.541	0.17			
9.652	1700729	1253217	0.737	12.20	$	142	Bromofluorobenzene
9.764	90941	54484	0.599	0.53		145	Propylbenzene
9.806	520745	343331	0.659	3.01		147	4-Ethyltoluene
9.848	195507	120191	0.615	1.13	S-S	149	1,3,5-Trimethylbenzene
9.974	132804	89895	0.677	0.77			Benzene, 1-ethyl-3-met
10.058	540142	500198	0.926	3.13		153	1,2,4-Trimethylbenzene
10.114	29878	16270	0.545	0.17			
10.184	15579	11324	0.727	0.09			
10.240	33362	21786	0.653	0.19			
10.282	103845	88843	0.856	0.60			
10.393	166460	62452	0.375	0.96		162	alpha-Chlorotoluene
10.505	12520	11169	0.892	0.07			
10.547	50608	23166	0.458	0.29			
10.589	37048	28541	0.770	0.21			

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.673	14768	5345	0.362	0.09	
10.813	44973	16880	0.375	0.26	
11.037	14460	6592	0.456	0.08	-al
11.247	11977	9728	0.812	0.07	
11.373	19593	15917	0.812	0.11	
	17275437	9711266		100.000	

Total Lab Blank IS/S area = 6666137

Sys. peaks = 236045

Total unknown % area = 19.080

$$\frac{17275437 - (236045 + 6666137)}{2467.20} = 4204.46$$

$$\%R = \left(\frac{4204.46}{4000}\right) \times 100 = 105\%$$

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/02jun10.b/w060207.d
Lab Smp Id: LAB BLANK
Inj Date : 02-JUN-2010 11:33
Operator : LL Inst ID: msdw.i
Smp Info : 50ml,34744
Misc Info : LAB BLANK
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: AREA%
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
1.355	233960	51269	0.219	3.37			
1.872	42234	5334	0.126	0.61			
5.370	712817	292368	0.410	10.25	*	73	Bromochloromethane
6.028	467732	208317	0.445	6.73	$	88	1,2-Dichloroethane-d4
6.490	1129517	485593	0.430	16.25	*	93	1,4-Difluorobenzene
7.847	1315279	868452	0.660	18.92	$	108	Toluene-d8
8.924	1426626	1099964	0.771	20.52	*	126	Chlorobenzene-d5
9.652	1614166	1197129	0.742	23.21	$	142	Bromofluorobenzene
10.869	9743	2595	0.266	0.14			
	6952075	4211021		100.000			

Total IS/S Area = 4666137

Total unknown % area = 4.120

TPHg < RL
4/2/10

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msdw.i/02jun10.b/w060218.d
Lab Smp Id: 1005522A-11A
Inj Date : 02-JUN-2010 16:56
Operator : gd Inst ID: msdw.i
Smp Info : 50ml,4235
Misc Info : 28.5"Hg>5.0psi, Exponent
Comment :
Method : /chem/msdw.i/02jun10.b/w1050511b.m
Meth Date : 02-Jun-2010 10:23 llarson Quant Type: AREA%
Cal Date : 01-JUN-2010 18:28 Cal File: w060105.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

95 6-8-10

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.341	33669	6570	0.195	0.56	
1.775	8537	1882	0.220	0.14	
5.356	649528	266910	0.411	10.82	* 73 Bromochloromethane
6.028	419193	183712	0.438	6.98	$ 88 1,2-Dichloroethane-d4
6.490	1006875	449067	0.446	16.77	* 93 1,4-Difluorobenzene
7.847	1175373	762689	0.649	19.58	$ 108 Toluene-d8
8.924	1278927	983107	0.769	21.30	* 126 Chlorobenzene-d5
9.652	1431900	1037179	0.724	23.85	$ 142 Bromofluorobenzene
	6004002	3691116		100.000	

Total unknown % area = 0.7000

TPHg-ND

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
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 List

Modified TO-15 (5&20 ppbv) + TPHg

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	5.0	
76-14-2	Freon 114	5.0	
75-35-4	1,1-Dichloroethene	5.0	
67-64-1	Acetone	20	
67-63-0	2-Propanol	20	
75-15-0	Carbon Disulfide	5.0	
107-05-1	3-Chloropropene	20	
75-09-2	Methylene Chloride	5.0	
1634-04-4	Methyl tert-butyl ether	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	
110-54-3	Hexane	5.0	
75-34-3	1,1-Dichloroethane	5.0	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	
109-99-9	Tetrahydrofuran	5.0	
67-66-3	Chloroform	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	
110-82-7	Cyclohexane	5.0	
56-23-5	Carbon Tetrachloride	5.0	
540-84-1	2,2,4-Trimethylpentane	5.0	
71-43-2	Benzene	5.0	
107-06-2	1,2-Dichloroethane	5.0	
142-82-5	Heptane	5.0	
79-01-6	Trichloroethene	5.0	
78-87-5	1,2-Dichloropropane	5.0	
123-91-1	1,4-Dioxane	20	
75-27-4	Bromodichloromethane	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	
108-88-3	Toluene	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	
127-18-4	Tetrachloroethene	5.0	
591-78-6	2-Hexanone	20	
124-48-1	Dibromochloromethane	5.0	
106-93-4	1,2-Dibromoethane (EDB)	5.0	
108-90-7	Chlorobenzene	5.0	
100-41-4	Ethyl Benzene	5.0	
108-38-3	m,p-Xylene	5.0	
95-47-6	o-Xylene	5.0	
100-42-5	Styrene	5.0	
75-25-2	Bromoform	5.0	
98-82-8	Cumene	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	
103-65-1	Propylbenzene	5.0	
622-96-8	4-Ethyltoluene	5.0	

Compound List

Modified TO-15 (5&20 ppbv) + TPHg

CAS Number	Compound	Detection Limit ppbv	Type
108-67-8	1,3,5-Trimethylbenzene	5.0	
95-63-6	1,2,4-Trimethylbenzene	5.0	
541-73-1	1,3-Dichlorobenzene	5.0	
106-46-7	1,4-Dichlorobenzene	5.0	
100-44-7	alpha-Chlorotoluene	5.0	
95-50-1	1,2-Dichlorobenzene	5.0	
120-82-1	1,2,4-Trichlorobenzene	20	
87-68-3	Hexachlorobutadiene	20	
9999-9999-038	TPH ref. to Gasoline (MW=100)	100	
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		
460-00-4	4-Bromofluorobenzene		
74-87-3	Chloromethane	20	
75-01-4	Vinyl Chloride	5.0	
106-99-0	1,3-Butadiene	5.0	
74-83-9	Bromomethane	5.0	
75-00-3	Chloroethane	5.0	
75-69-4	Freon 11	5.0	
64-17-5	Ethanol	20	
76-13-1	Freon 113	5.0	

@ Air Toxics Ltd	Title: Data Review Checklist			Release Date: 03/01/10
	Form #: F1.2	Revision #: 2	Revision Date:03/01/10	Page #: 1 of 2

DATA REVIEW CHECKLIST

Work Order #: 1005572A

A_1	A_2	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.
☑	☐			☐		Non-Standard sublist printed/verified, LOQ and LOD verified
		☐	☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☐	☐	☐	☐	Sample Discrepancy Report (SDR) is completed
☑	☐	☐	☐	☐	☐	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
☑	☐	☐	☐	☐	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☑	☐	☐	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☐		☐		Special units for all samples in the final report are correctly calculated
		☐	☐	☐		Manually entered results checked (i.e. TPH/NMOC)
☑	☐	☐				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☐				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☑		☐				Date MDL(s) performed per instrument(s) 10/16/09
☑	☐	☐				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☑	☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☑	☐	☐				Verify receipt pressures
☑	☐	☐				Verify canister ID #'s
		☐		☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☐	☐	☐	☐	Client LUMEN report reviewed for accuracy and completeness
				☐		Final PDF report reviewed for correctness

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

A/R: 2 ☑ out CCV, 1 out LCS (HCBD)

2 11A trip Blank

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: gpl 6/2/10	R:		
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Management reviewer and reporting reviewer must be separate individuals.

DATA REVIEW CHECKLIST Work Order #: 1005522A

A_1	A_2	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.
NA	☐			NA		Non-Standard sublist printed/verified, LOQ and LOD verified
	☐	☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	☑	☐	Sample Discrepancy Report (SDR) is completed
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
		NA	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☐	☑	☐		☐	Samples analyzed within the project or method specific clock
		☑	☐			Retention times have been verified
☑	☐	☑	☐		☐	Appropriate ICAL(s) included
		☑	☐	☑	☐	At least one result per sample is verified against the target quant sheets/raw data
☑	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		NA	☐			TICs resemble reference spectra
		NA	☐			TICs between duplicate samples are consistent
☑	☐	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☑	☐	NA	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		NA	NA			Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☑	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody MSD-W : 10-16-09
☑		☑				Date MDL(s) performed per instrument(s) MSD-B 5/14/10
☑	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☑	☐	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☐	☑				Verify receipt pressures MS 6-8-10
☑	☐	☑				Verify canister ID #'s
		☑		☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		NA	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness
				☑		Final PDF report reviewed for correctness

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

A/R: TO15+ TPHg : 0 surr on QC
Dup-02A → 11A rerun from 11LD → analyzed on MSD-W
05A + 11A (on hold), Trip Blank - 4.0 ug/m3 and Field Blank 28.5 ug/m3
~~05A~~ 5/28/10 need verify.

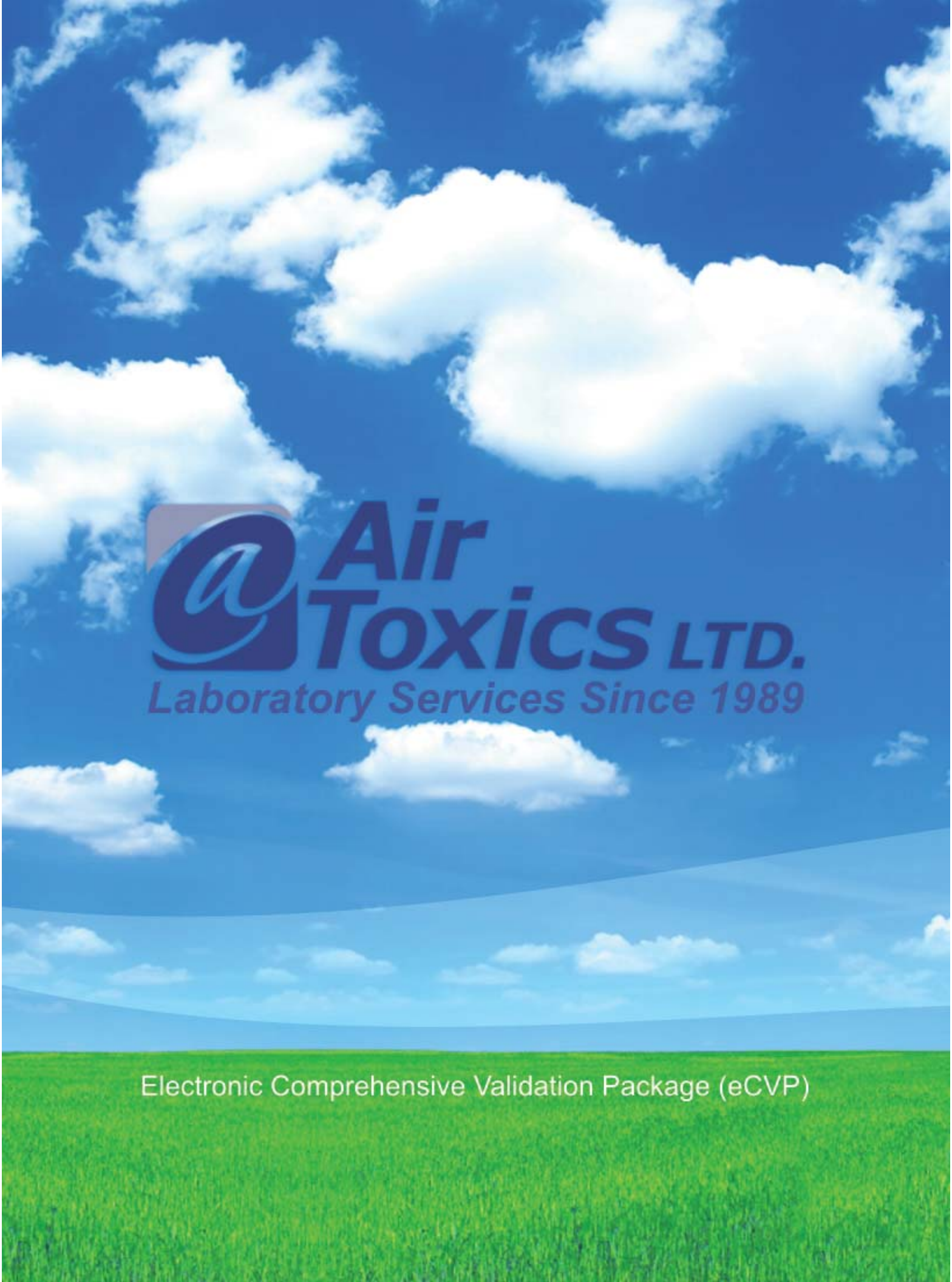
M/Q: TPHg: NO Gas Pattern for all samples (siloxane peaks removed) & ND
TB ND for all samples.

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: 5/28/10	R: RJA(AB) 6-8-10	6/8/10	

A_2: T:

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable


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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified ASTM D-1945

INVENTORY SHEET

Work Order #: 1005522B

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-Internal Standard Area and Retention Time Summary		
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Comments:

Completed by:

Kara McKiernan — Kara McKiernan / Document Control — 6/11/10

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

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1005522B

Work Order Summary

CLIENT:	Ms. Melissa Kleven Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007	**BILL TO:**	Ms. Melissa Kleven Exponent 15375 SE 30th Place Suite 250 Bellevue, WA 98007
PHONE:	425-519-8774	**P.O. #**	
FAX:	425-643-9827	**PROJECT #**	0907194.000.0601 Heglar Kronquist
DATE RECEIVED:	05/21/2010	**CONTACT:**	Karen Lopez
DATE COMPLETED:	06/04/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	D-1	Modified ASTM D-1945	5.4 "Hg	5 psi
01AA	D-1 Lab Duplicate	Modified ASTM D-1945	5.4 "Hg	5 psi
02A	D-10	Modified ASTM D-1945	6.0 "Hg	5 psi
03A(on hold)	Blank	Modified ASTM D-1945	9.0 "Hg	5 psi
04A	GV-12	Modified ASTM D-1945	4.0 "Hg	5 psi
11A	Trip Blank	Modified ASTM D-1945	28.5 "Hg	5 psi
12A	Lab Blank	Modified ASTM D-1945	NA	NA
12B	Lab Blank	Modified ASTM D-1945	NA	NA
13A	LCS	Modified ASTM D-1945	NA	NA
13B	LCS	Modified ASTM D-1945	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 06/08/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified ASTM D-1945
Exponent
Workorder# 1005522B

Four 6 Liter Summa Canister samples were received on May 21, 2010. The laboratory performed analysis via modified ASTM Method D-1945 for Methane and fixed gases in natural gas using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

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

Requirement	***ASTM D-1945***	***ATL Modifications***
Normalization	Sum of original values should not differ from 100.0% by more than 1.0%.	Sum of original values may range between 85-115%. Normalization of data not performed.
Sample analysis	Equilibrate samples to 20-50° F. above source temperature at field sampling	No heating of samples is performed.
Sample calculation	Response factor is calculated using peak height for C5 and lighter compounds.	Peak areas are used for all target analytes to quantitate concentrations.
Reference Standard	Concentration should not be < half of nor differ by more than 2 X the concentration of the sample. Run 2 consecutive checks; must agree within 1%.	A minimum 3-point linear calibration is performed. The acceptance criterion is %RSD </= 15%. All target analytes must be within the linear range of calibration (with the exception of O2, N2, and C6+ Hydrocarbons).
Sample Injection Volume	0.50 mL to achieve Methane linearity.	1.0 mL.

Receiving Notes

Samples Blank and Field Blank were placed on hold per the client's request.

The number of samples received did not match the information on the Chain of Custody (COC). Sample Field Blank was added to the analytical request.

Sample Trip Blank was removed from "Hold" and placed on "Active" status per client request on 6/1/10.

Analytical Notes

Since Nitrogen is used to pressurize samples, the Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the data analysis sheets and indicate as follows:
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 detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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
D-1	1005522B-01A	5/19/2010	5/21/2010	NA	14	6/ 2/2010	NA	Good
D-1 Lab Duplicate	1005522B-01AA	5/19/2010	5/21/2010	NA	14	6/ 2/2010	NA	Good
D-10	1005522B-02A	5/19/2010	5/21/2010	NA	14	6/ 2/2010	NA	Good
GV-12	1005522B-04A	5/16/2010	5/21/2010	NA	17	6/ 2/2010	NA	Good
Trip Blank	1005522B-11A	NA	5/21/2010	NA	NA	6/ 2/2010	NA	Good
Lab Blank	1005522B-12A	NA	NA	NA	NA	6/ 2/2010	NA	Good
Lab Blank	1005522B-12B	NA	NA	NA	NA	6/ 2/2010	NA	Good
LCS	1005522B-13A	NA	NA	NA	NA	6/ 2/2010	NA	Good
LCS	1005522B-13B	NA	NA	NA	NA	6/ 2/2010	NA	Good

Sample Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: D-1

Lab ID#: 1005522B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	16
Nitrogen	0.16	82
Methane	0.00016	0.054
Carbon Dioxide	0.016	0.017
Hydrogen	0.016	1.6

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-1

Lab ID#: 1005522B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060224**	**Date of Collection: 5/19/10 2:23:00 PM**	
Dil. Factor:	**1.63**	**Date of Analysis: 6/2/10 08:02 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	16
Nitrogen	0.16	82
Carbon Monoxide	0.016	Not Detected
Methane	0.00016	0.054
Carbon Dioxide	0.016	0.017
Ethane	0.0016	Not Detected
Ethene	0.0016	Not Detected
Acetylene	0.0016	Not Detected
Propane	0.0016	Not Detected
Isobutane	0.0016	Not Detected
Butane	0.0016	Not Detected
Neopentane	0.0016	Not Detected
Isopentane	0.0016	Not Detected
Pentane	0.0016	Not Detected
C6+	0.016	Not Detected
Hydrogen	0.016	1.6
Helium	0.082	Not Detected

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

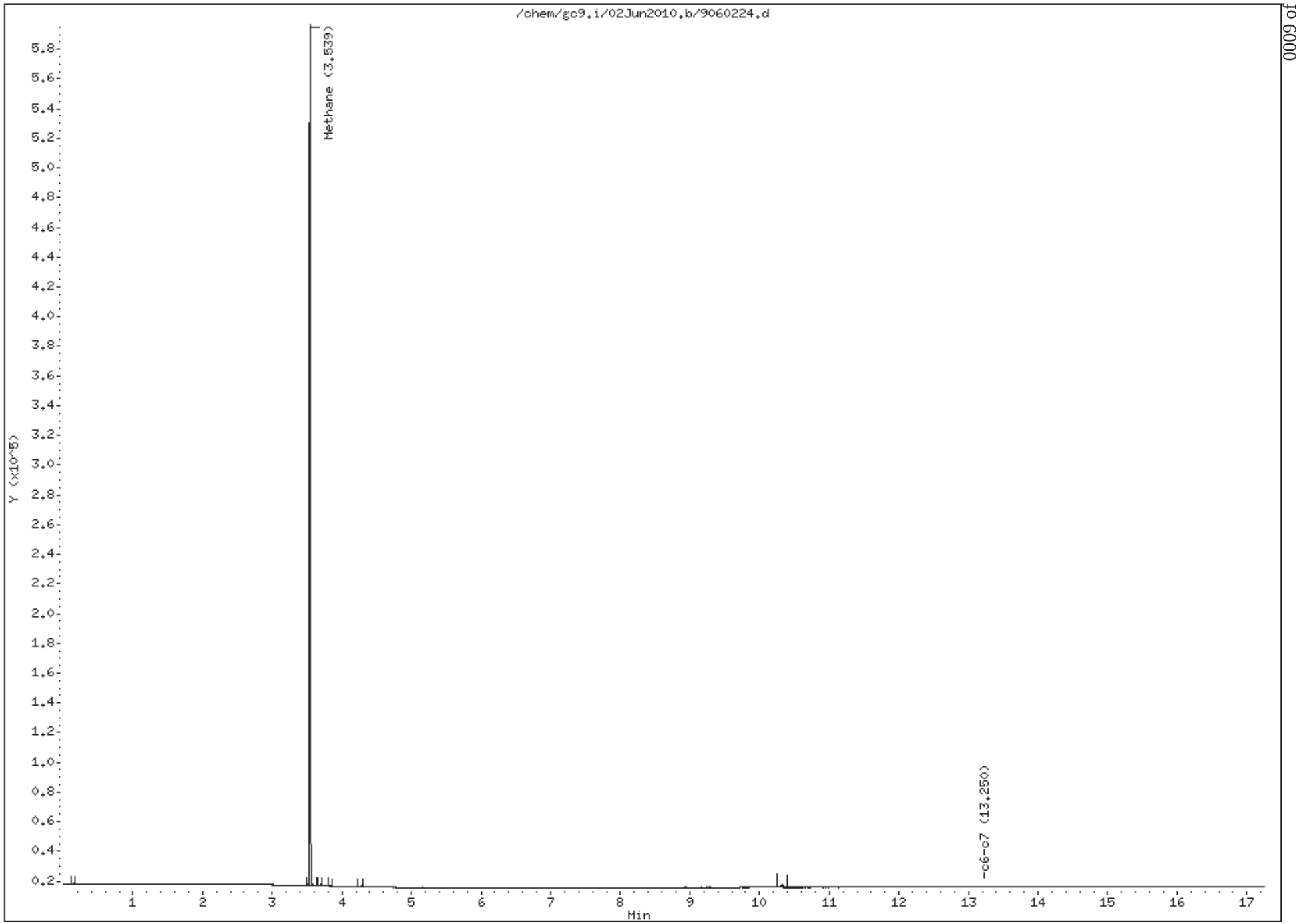
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060224.d
Lab Smp Id: 1005522B-01A
Inj Date : 02-JUN-2010 20:02
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,33559
Misc Info : 5.4"Hg->5psi, Exponent
Comment : GC FID
Method : /chem/gc9.i/02Jun2010.b/910n0430.m
Meth Date : 03-Jun-2010 16:03 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
Als bottle: 1
Dil Factor: 1.63000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

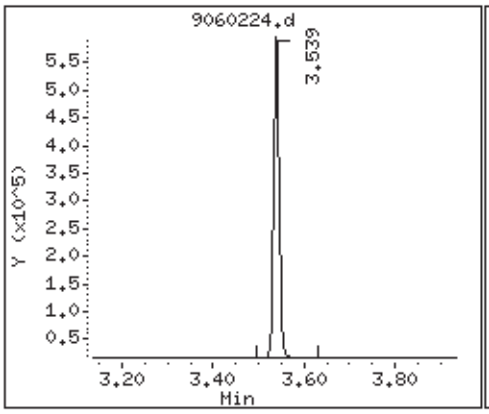
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

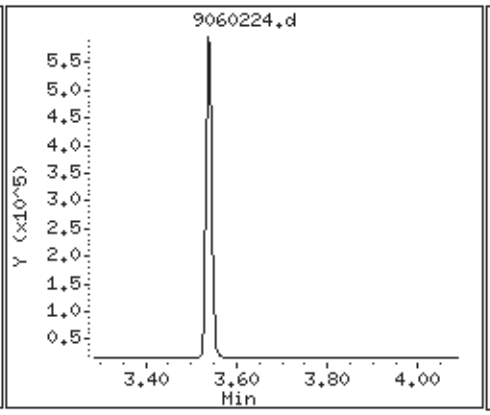
						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
	2 Methane	3.539	3.536	0.003	5095422	0.03284	0.0535
	3 ethane	Compound Not Detected.					
	4 ethene	Compound Not Detected.					
	5 propane	Compound Not Detected.					
	7 acetylene	Compound Not Detected.					
	8 iso-butane	Compound Not Detected.					
	10 n-butane	Compound Not Detected.					
	15 neo-pentane	Compound Not Detected.					
	16 isopentane	Compound Not Detected.					
	17 pentane	Compound Not Detected.					
M	37 C6+ Hydrocarbons	Compound Not Detected.					
S	22 c6-c7	Compound Not Detected.					
S	36 c8+	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060224.d
Methane (3.539)
-c6-c7 (13.250)
Y (x10^5)
Min

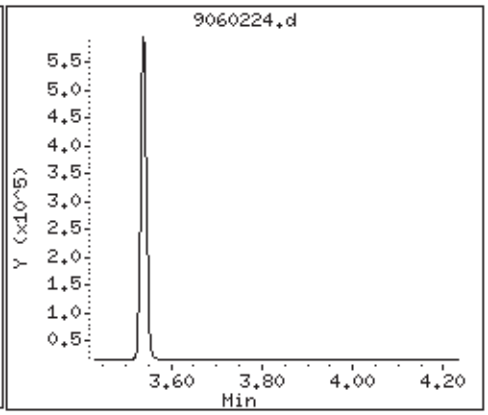
2 Methane



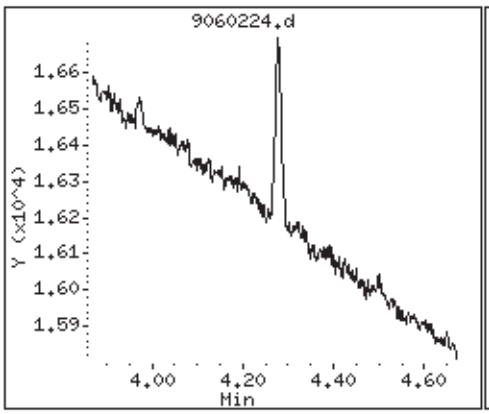
3 ethane (Undetected)



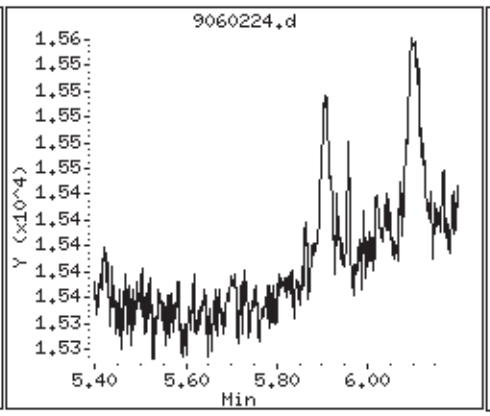
4 ethene (Undetected)



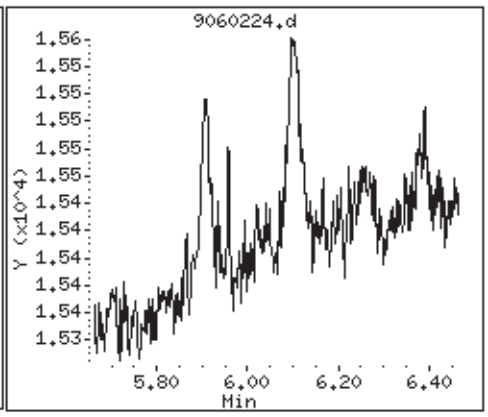
5 propane (Undetected)



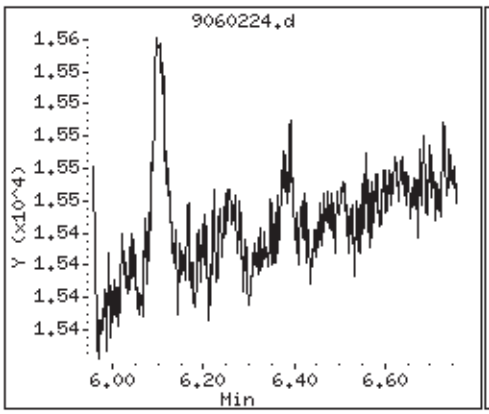
7 acetylene (Undetected)



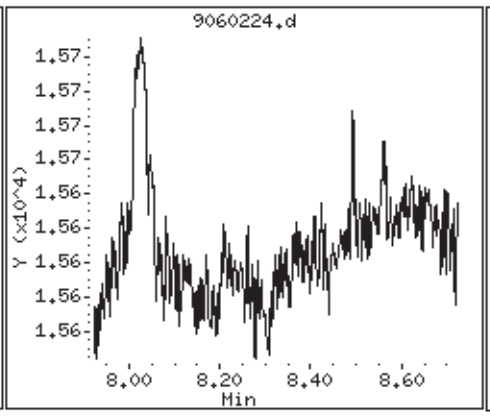
8 iso-butane (Undetected)



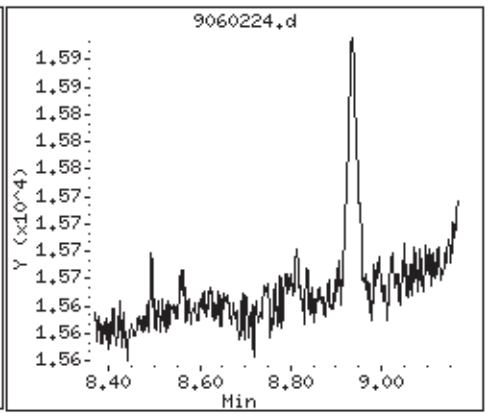
10 n-butane (Undetected)



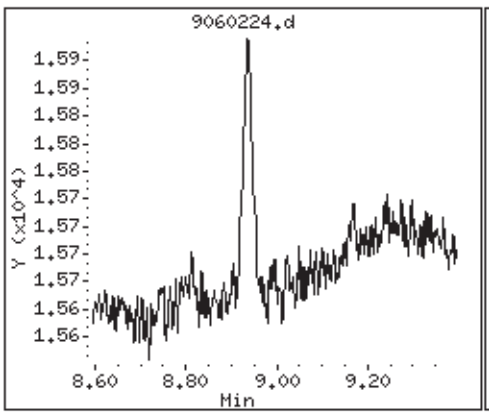
15 neo-pentane (Undetected



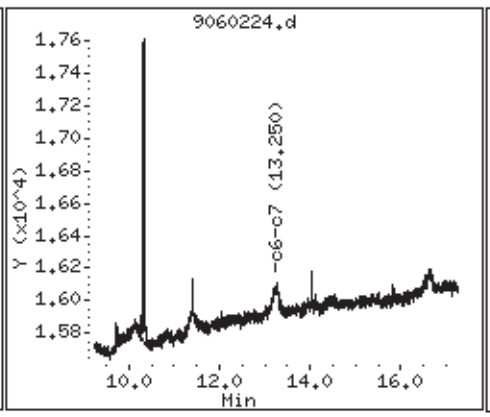
16 isopentane (Undetected)



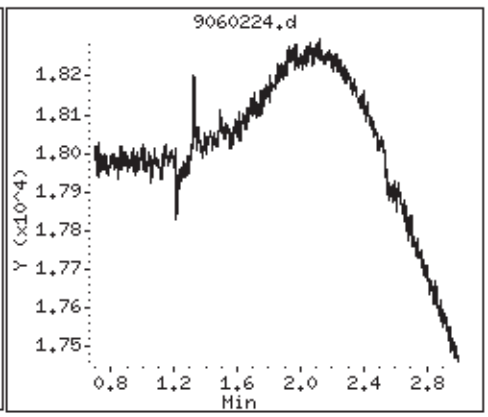
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

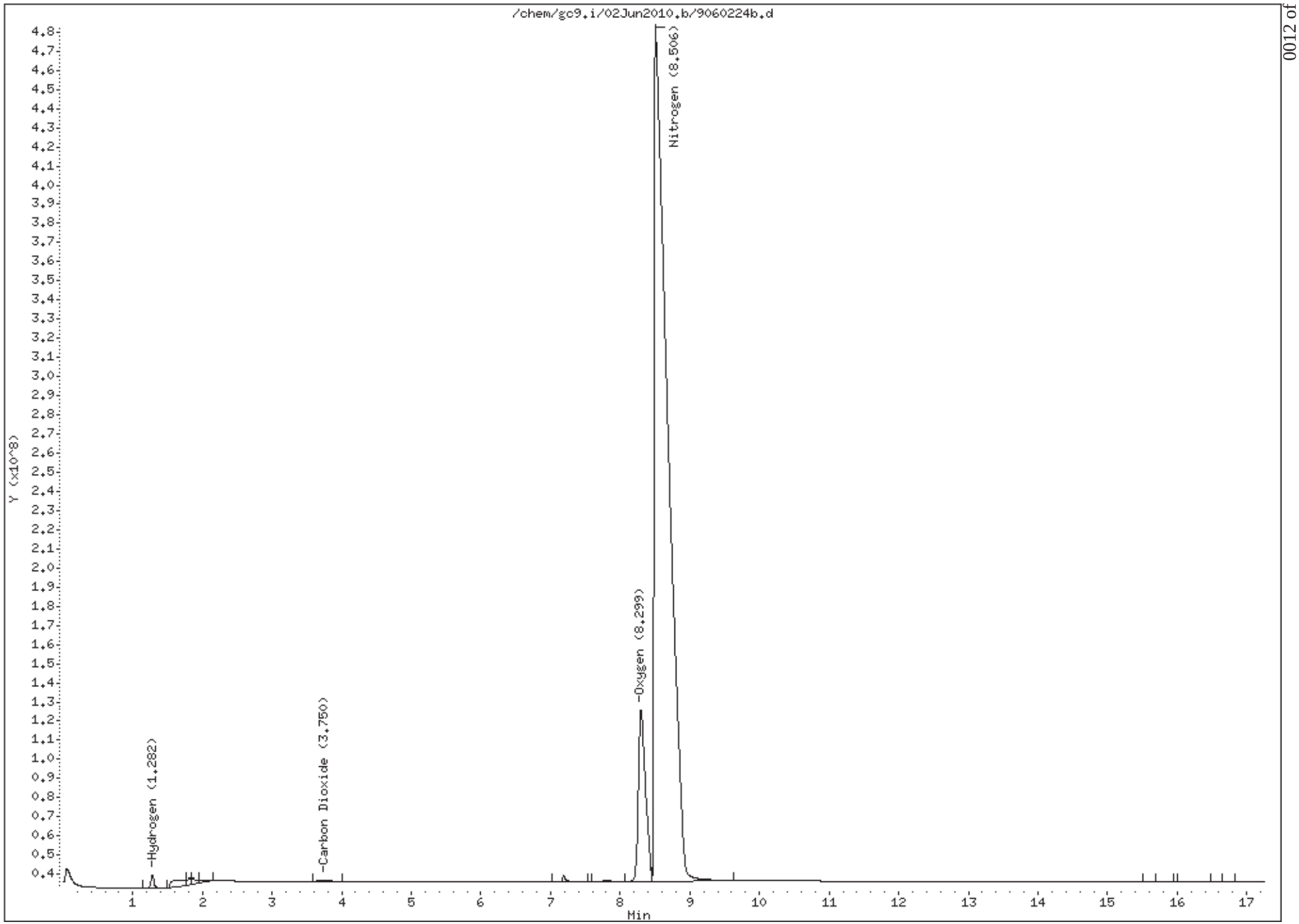
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060224b.d
Lab Smp Id: 1005522B-01A
Inj Date : 02-JUN-2010 20:02
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,33559;1005522B-01A;
Misc Info : 5.4"Hg->5psi, Exponent
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201b.d
Als bottle: 1
Dil Factor: 1.63000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

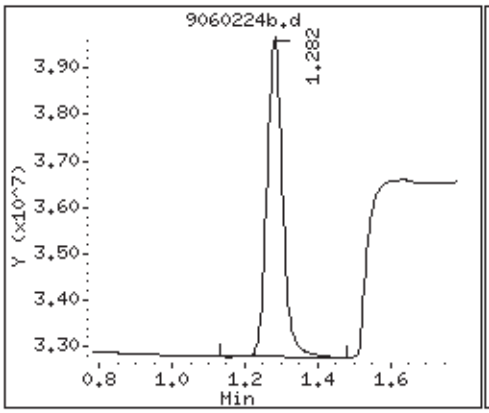
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

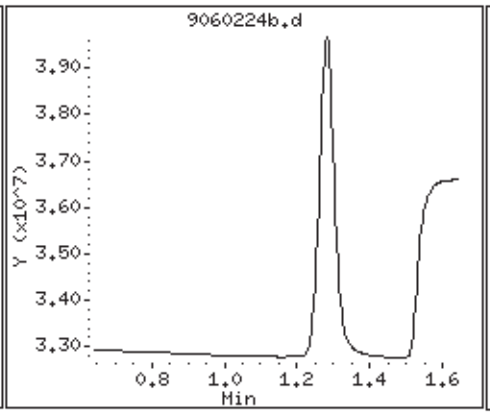
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2 Hydrogen	1.282	1.285	-0.003	103280638	0.98971	1.61
1 Helium	Compound Not Detected.					
3 Carbon Dioxide	3.750	3.348	0.402	5392470	0.01071	0.0174
9 Oxygen	8.299	8.330	-0.031	3181544820	10.1450	16.5
10 Nitrogen	8.506	8.540	-0.034	29924223204	87.6658	143
12 Carbon Monoxide	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060224b.d
Y (x10^8)
Min
Hydrogen (1.282)
Carbon Dioxide (3.750)
Oxygen (8.299)
Nitrogen (8.506)

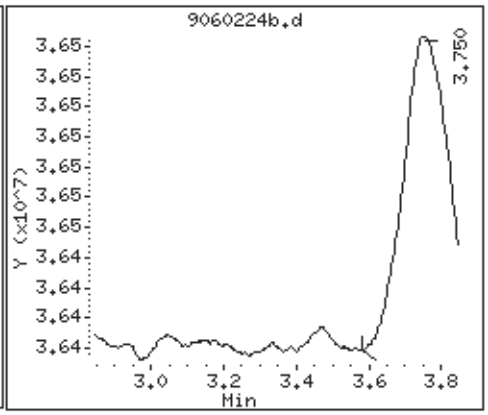
2 Hydrogen



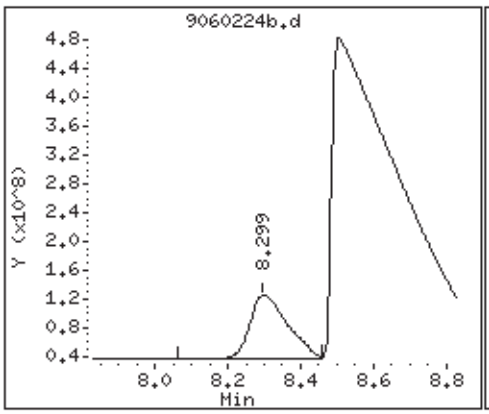
1 Helium (Undetected)



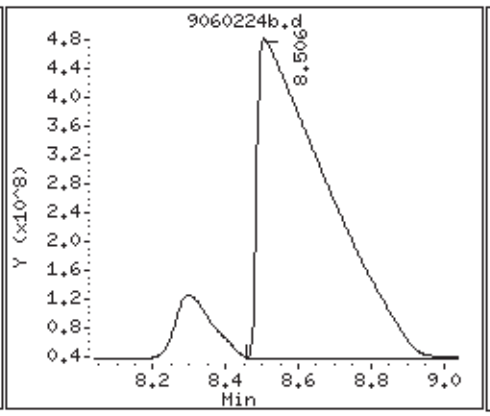
3 Carbon Dioxide



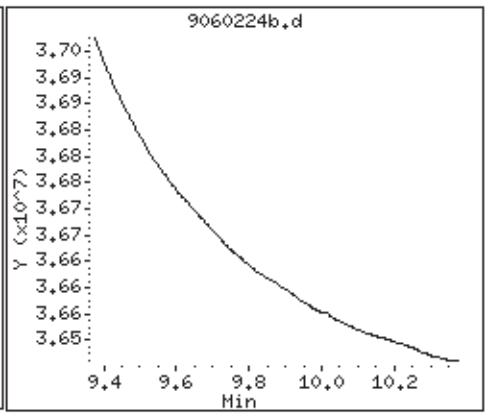
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: D-1 Lab Duplicate

Lab ID#: 1005522B-01AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	16
Nitrogen	0.16	82
Methane	0.00016	0.053
Carbon Dioxide	0.016	0.020
Hydrogen	0.016	1.6

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-1 Lab Duplicate

Lab ID#: 1005522B-01AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060225**	**Date of Collection: 5/19/10 2:23:00 PM**	
Dil. Factor:	**1.63**	**Date of Analysis: 6/2/10 08:28 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	16
Nitrogen	0.16	82
Carbon Monoxide	0.016	Not Detected
Methane	0.00016	0.053
Carbon Dioxide	0.016	0.020
Ethane	0.0016	Not Detected
Ethene	0.0016	Not Detected
Acetylene	0.0016	Not Detected
Propane	0.0016	Not Detected
Isobutane	0.0016	Not Detected
Butane	0.0016	Not Detected
Neopentane	0.0016	Not Detected
Isopentane	0.0016	Not Detected
Pentane	0.0016	Not Detected
C6+	0.016	Not Detected
Hydrogen	0.016	1.6
Helium	0.082	Not Detected

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

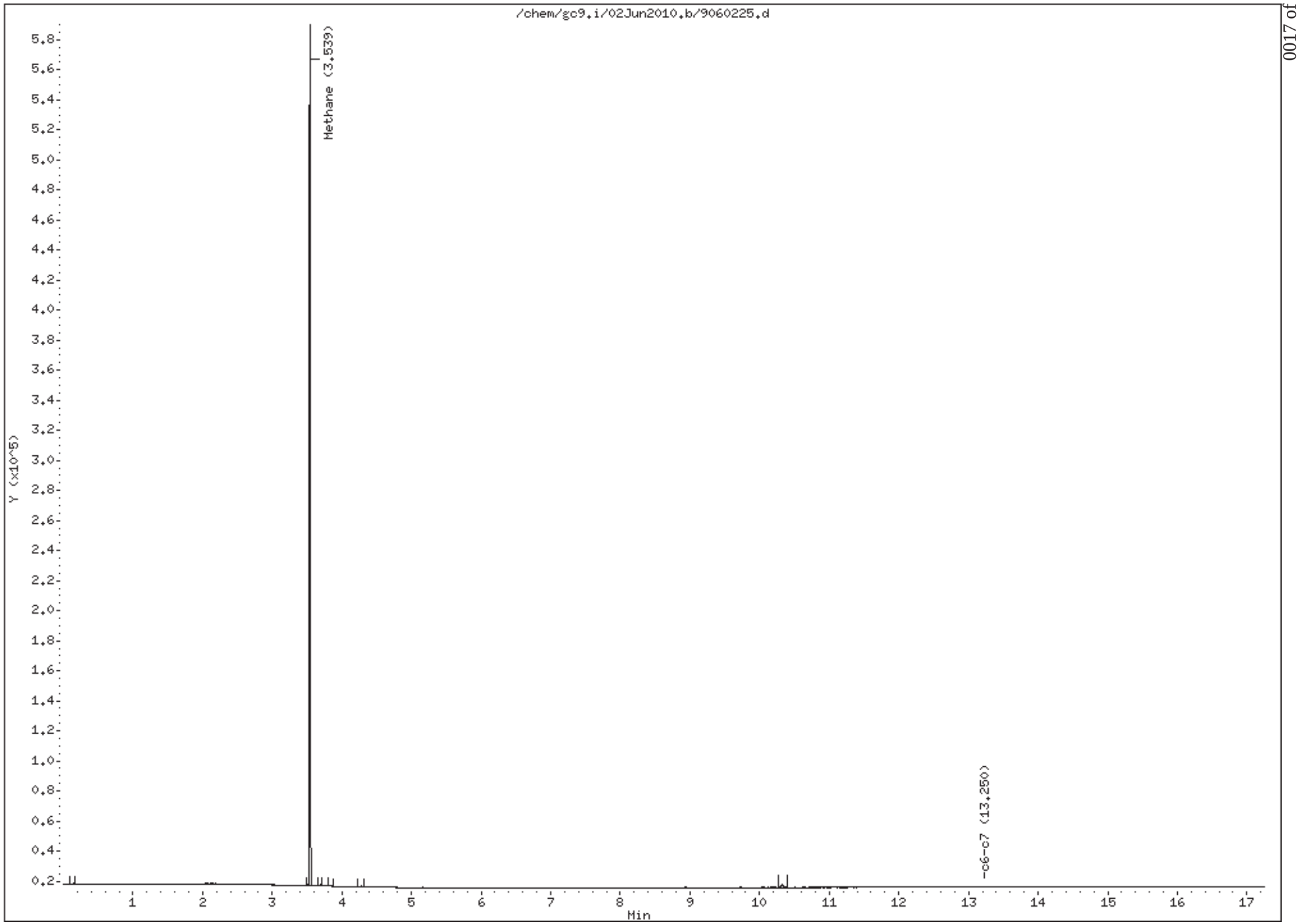
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060225.d
Lab Smp Id: 1005522B-01AA
Inj Date : 02-JUN-2010 20:28
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,33559
Misc Info : 5.4"Hg->5psi, Exponent
Comment : GC FID
Method : /chem/gc9.i/02Jun2010.b/910n0430.m
Meth Date : 03-Jun-2010 16:03 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
Als bottle: 1
Dil Factor: 1.63000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

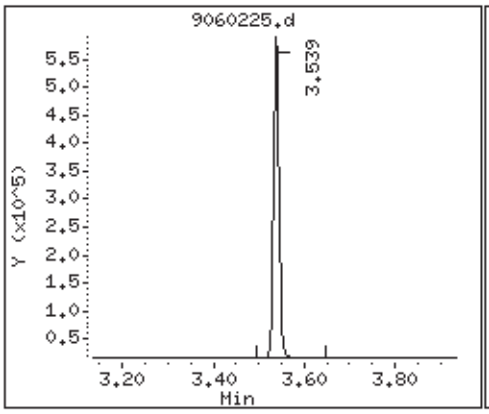
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

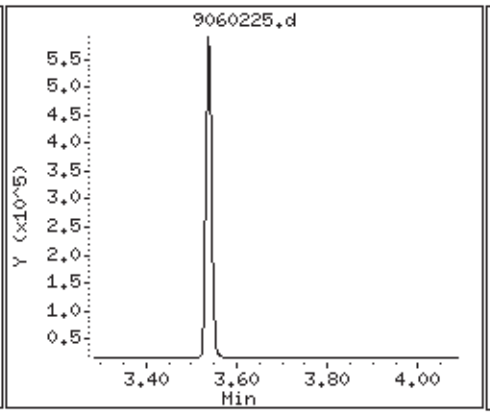
						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
	2 Methane	3.539	3.536	0.003	5031403	0.03243	0.0528
	3 ethane	Compound Not Detected.					
	4 ethene	Compound Not Detected.					
	5 propane	Compound Not Detected.					
	7 acetylene	Compound Not Detected.					
	8 iso-butane	Compound Not Detected.					
	10 n-butane	Compound Not Detected.					
	15 neo-pentane	Compound Not Detected.					
	16 isopentane	Compound Not Detected.					
	17 pentane	Compound Not Detected.					
M	37 C6+ Hydrocarbons	Compound Not Detected.					
S	22 c6-c7	Compound Not Detected.					
S	36 c8+	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060225.d
Methane (3.539)
-c6-c7 (13.250)
Y (x10^5)
Min

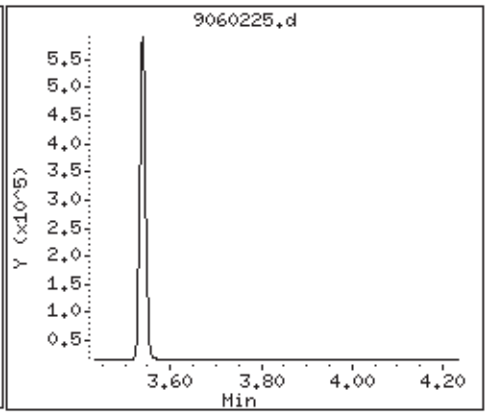
2 Methane



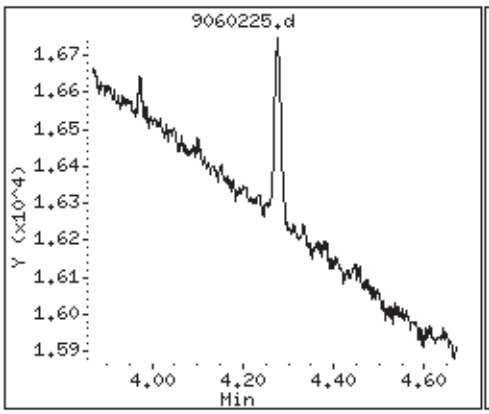
3 ethane (Undetected)



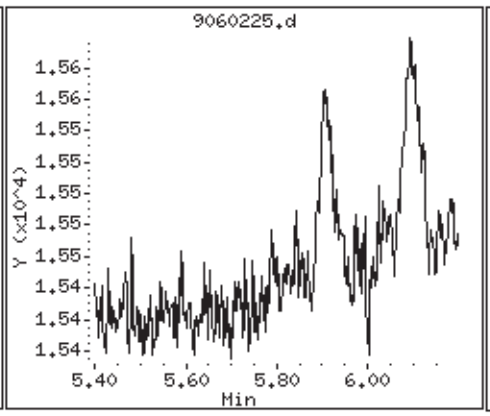
4 ethene (Undetected)



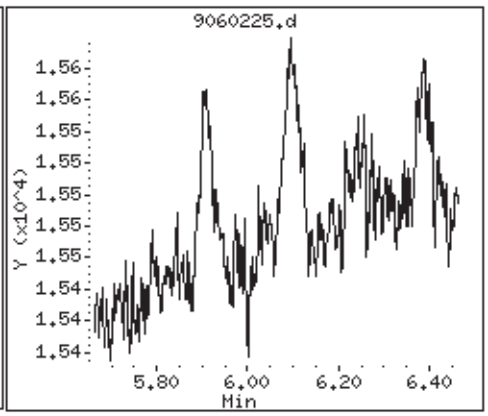
5 propane (Undetected)



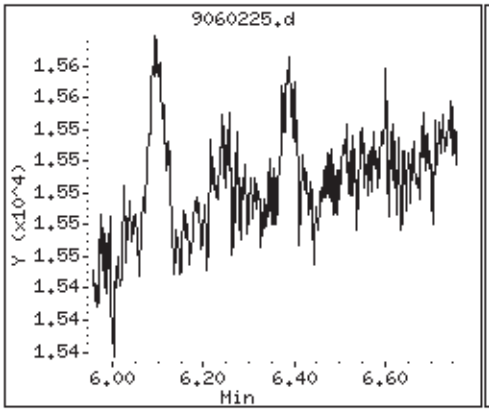
7 acetylene (Undetected)



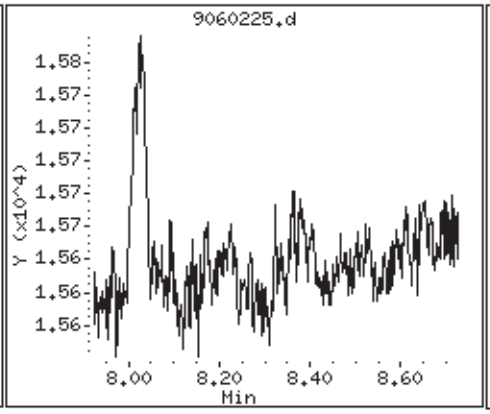
8 iso-butane (Undetected)



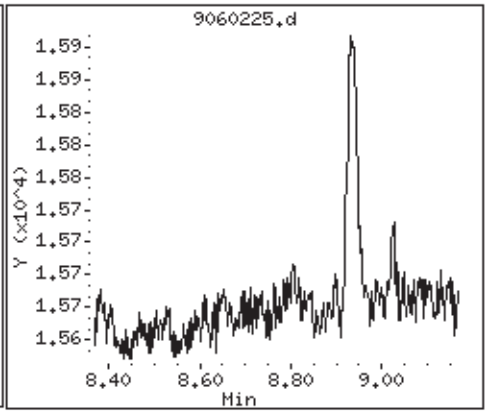
10 n-butane (Undetected)



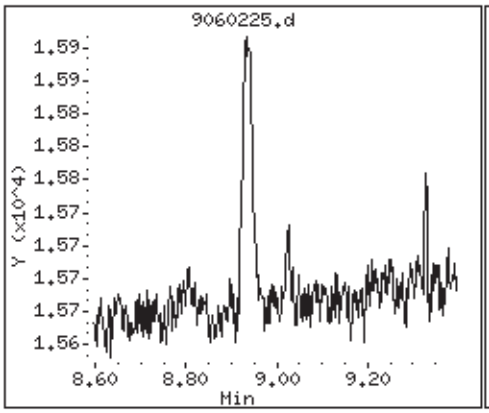
15 neo-pentane (Undetected



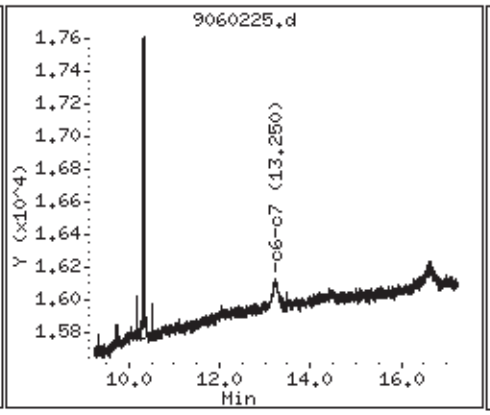
16 isopentane (Undetected)



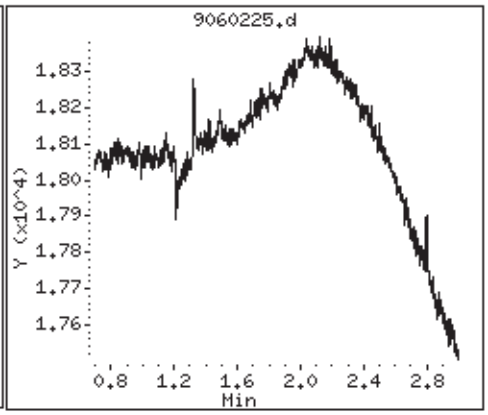
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

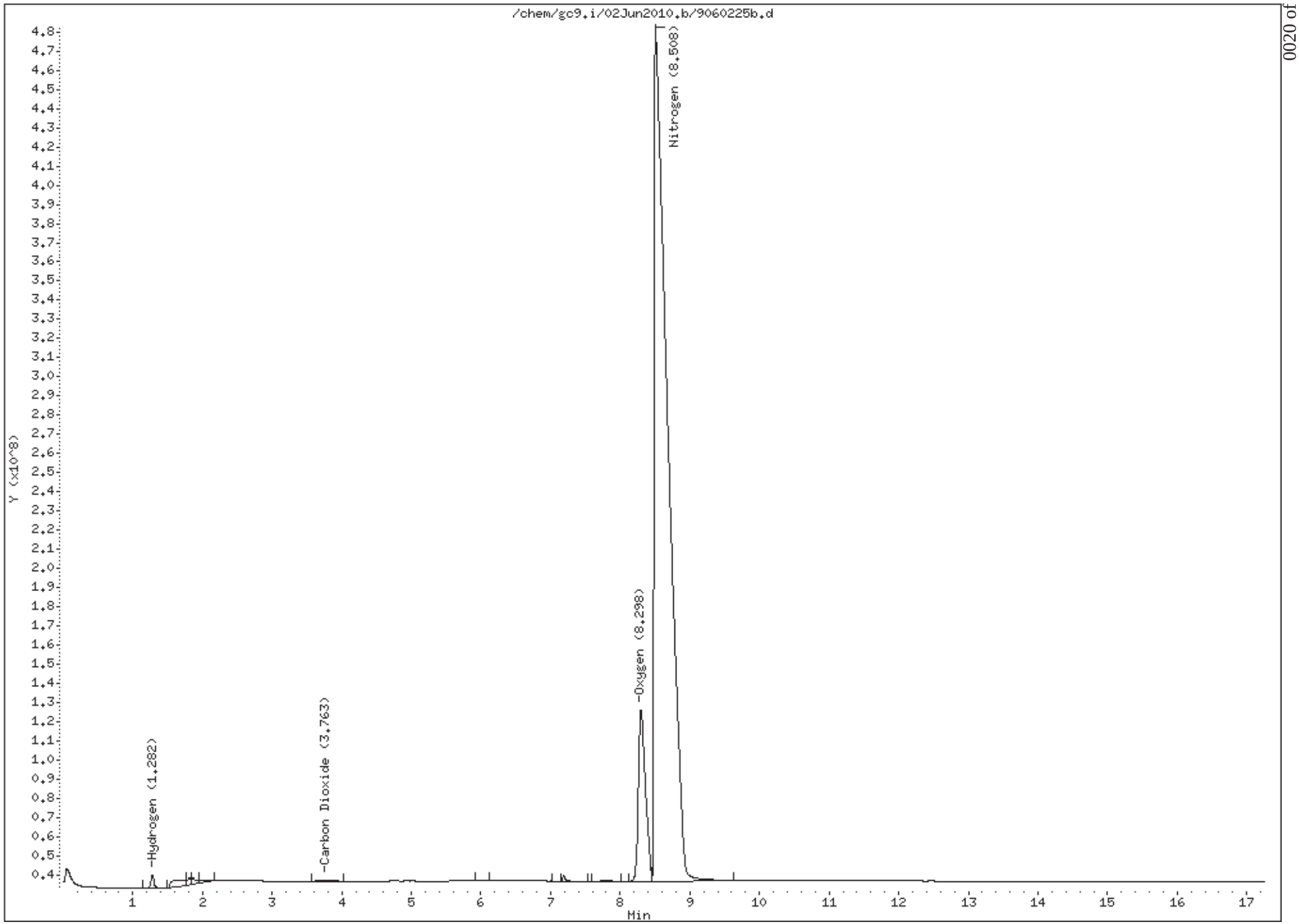
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060225b.d
Lab Smp Id: 1005522B-01AA
Inj Date : 02-JUN-2010 20:28
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,33559;1005522B-01AA;
Misc Info : 5.4"Hg->5psi, Exponent
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201b.d
Als bottle: 1
Dil Factor: 1.63000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

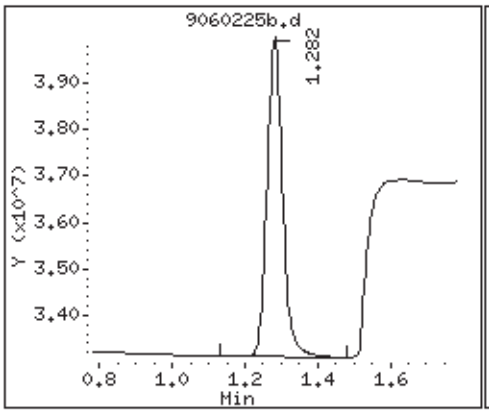
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

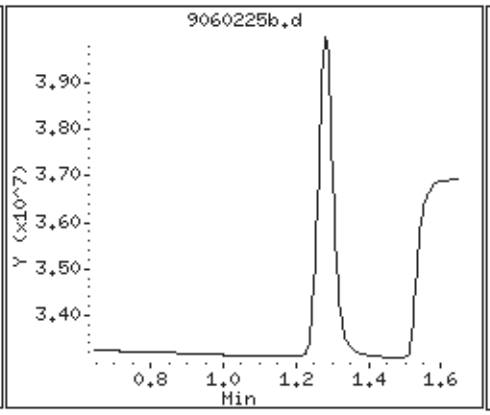
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2 Hydrogen	1.282	1.285	-0.003	102773537	0.98485	1.60
1 Helium	Compound Not Detected.					
3 Carbon Dioxide	3.763	3.348	0.415	6184931	0.01228	0.0200
9 Oxygen	8.298	8.330	-0.032	3174832835	10.1236	16.5
10 Nitrogen	8.508	8.540	-0.032	29906798742	87.6148	143
12 Carbon Monoxide	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060225b.d
Y (x10^8)
Min
Hydrogen (1.282)
Carbon Dioxide (3.763)
Oxygen (8.298)
Nitrogen (8.508)

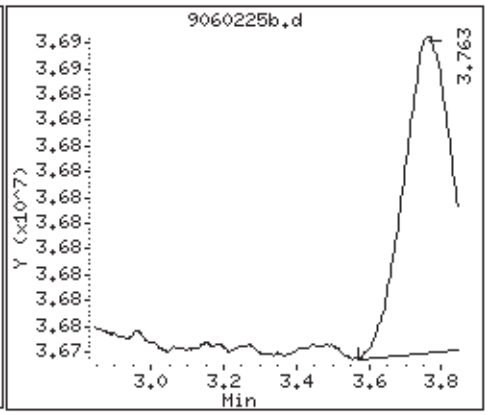
2 Hydrogen



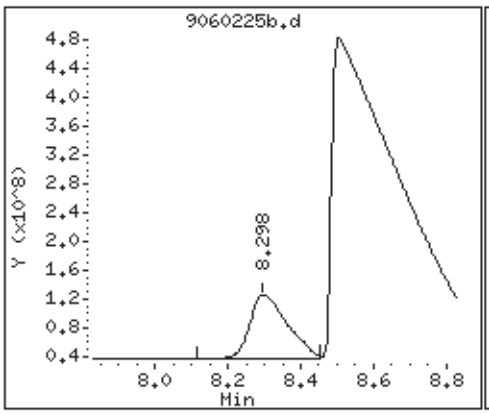
1 Helium (Undetected)



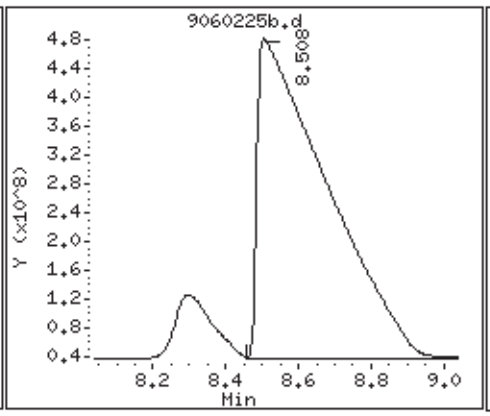
3 Carbon Dioxide



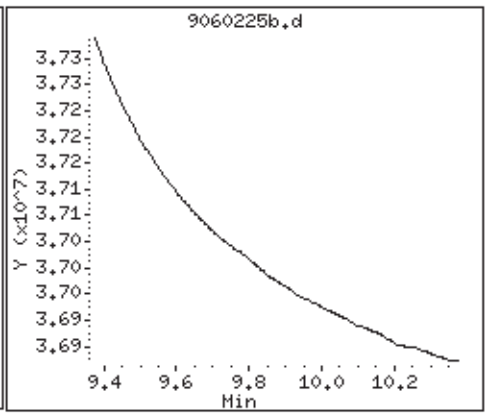
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: D-10

Lab ID#: 1005522B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	17
Nitrogen	0.17	81
Methane	0.00017	0.053
Carbon Dioxide	0.017	0.018
Hydrogen	0.017	1.6

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: D-10

Lab ID#: 1005522B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060226**	**Date of Collection:**	**5/19/10 2:23:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**6/2/10 08:56 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.17	17
Nitrogen	0.17	81
Carbon Monoxide	0.017	Not Detected
Methane	0.00017	0.053
Carbon Dioxide	0.017	0.018
Ethane	0.0017	Not Detected
Ethene	0.0017	Not Detected
Acetylene	0.0017	Not Detected
Propane	0.0017	Not Detected
Isobutane	0.0017	Not Detected
Butane	0.0017	Not Detected
Neopentane	0.0017	Not Detected
Isopentane	0.0017	Not Detected
Pentane	0.0017	Not Detected
C6+	0.017	Not Detected
Hydrogen	0.017	1.6
Helium	0.084	Not Detected

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

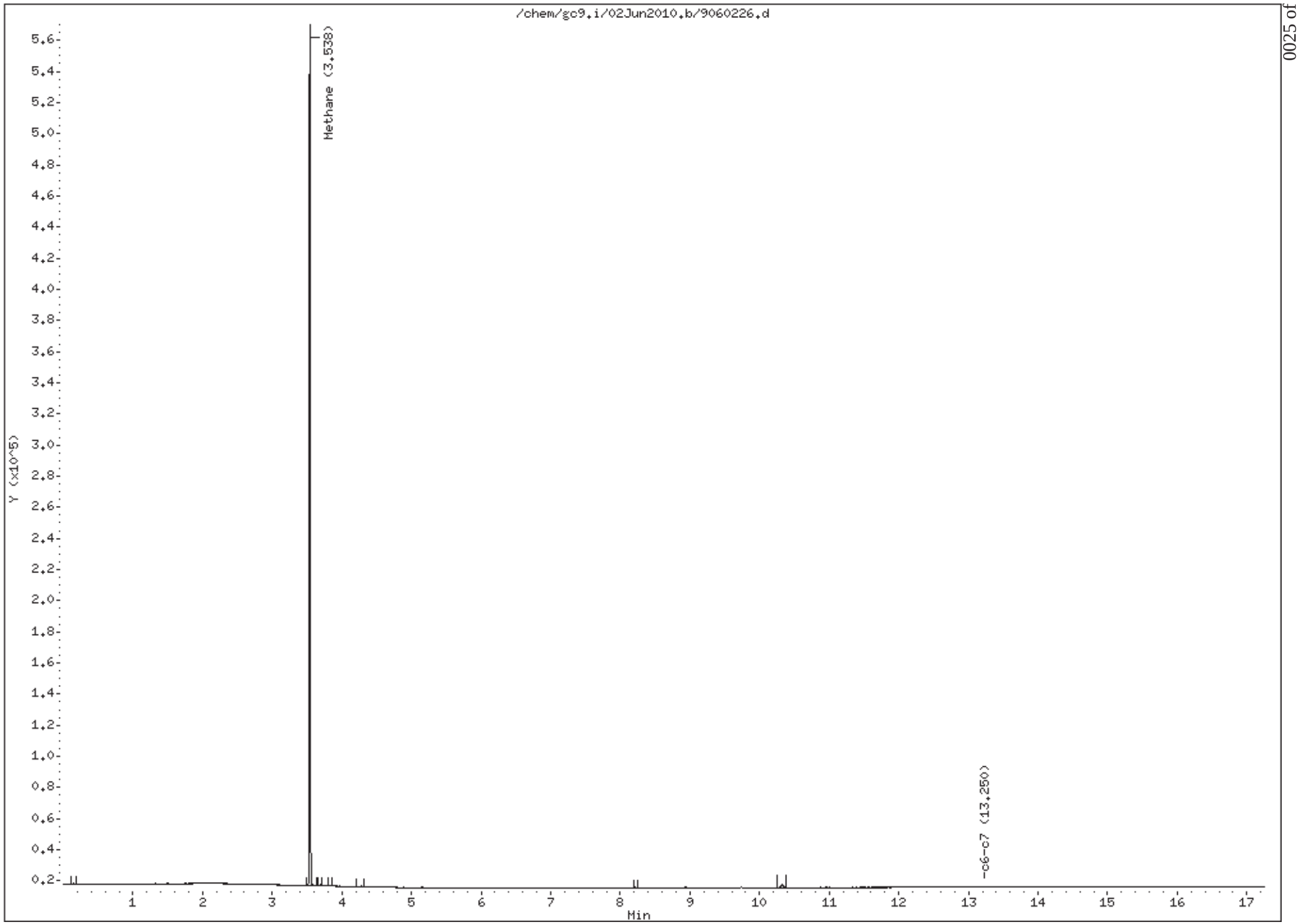
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060226.d
Lab Smp Id: 1005522B-02A
Inj Date : 02-JUN-2010 20:56
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,34445
Misc Info : 6.0"Hg->5psi, Exponent
Comment : GC FID
Method : /chem/gc9.i/02Jun2010.b/910n0430.m
Meth Date : 03-Jun-2010 16:03 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

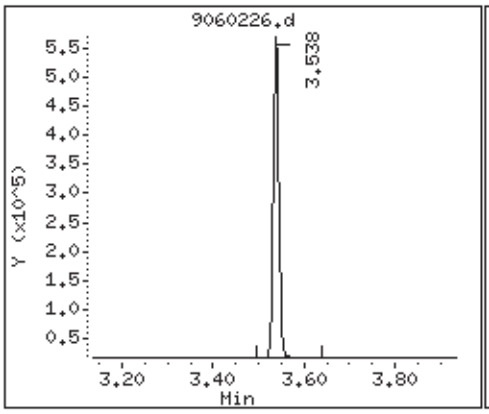
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

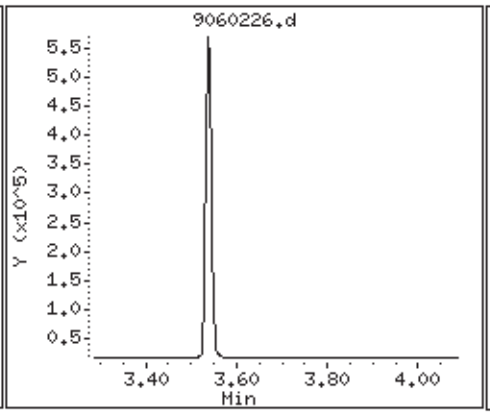
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2	Methane	3.538	3.536	0.002	4882937	0.03147	0.0529
3	ethane	Compound Not Detected.					
4	ethene	Compound Not Detected.					
5	propane	Compound Not Detected.					
7	acetylene	Compound Not Detected.					
8	iso-butane	Compound Not Detected.					
10	n-butane	Compound Not Detected.					
15	neo-pentane	Compound Not Detected.					
16	isopentane	Compound Not Detected.					
17	pentane	Compound Not Detected.					
M 37	C6+ Hydrocarbons	Compound Not Detected.					
S 22	c6-c7	Compound Not Detected.					
S 36	c8+	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060226.d
Methane (3.538)
-c6-c7 (13.250)
Y (x10^5)
Min

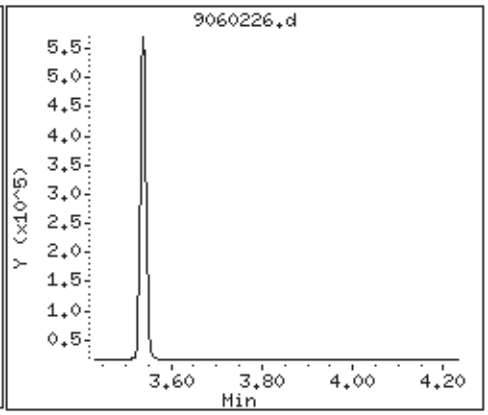
2 Methane



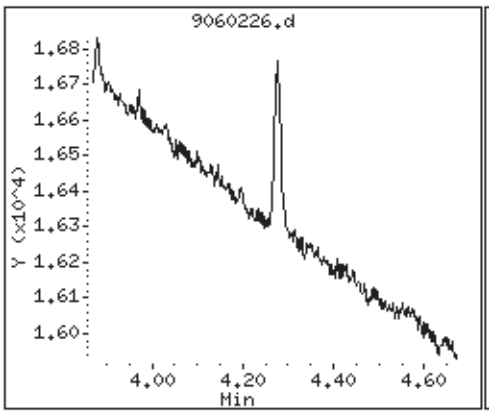
3 ethane (Undetected)



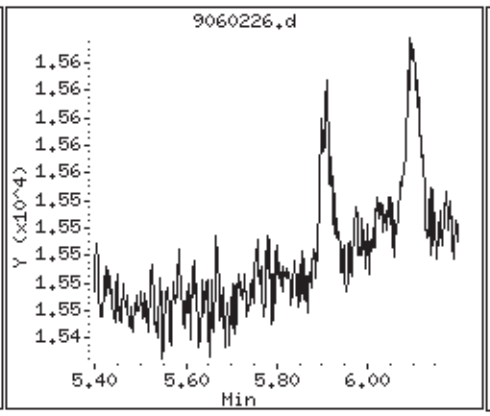
4 ethene (Undetected)



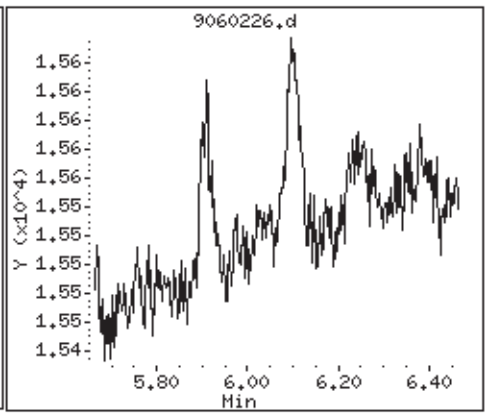
5 propane (Undetected)



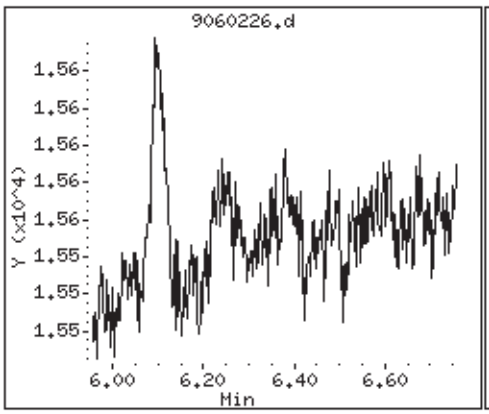
7 acetylene (Undetected)



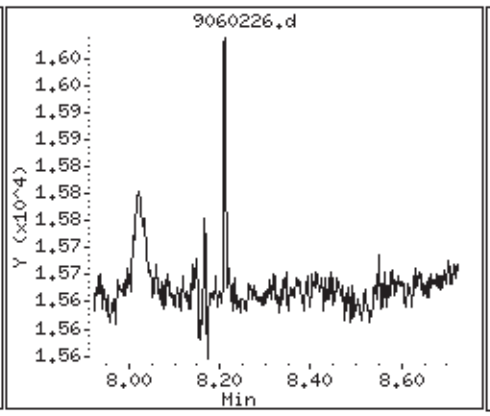
8 iso-butane (Undetected)



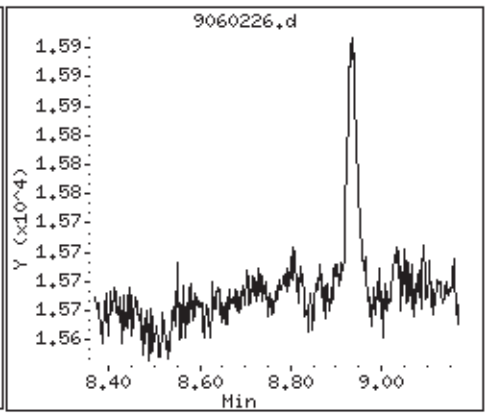
10 n-butane (Undetected)



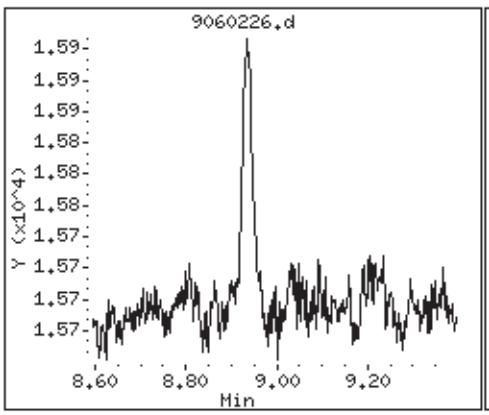
15 neo-pentane (Undetected



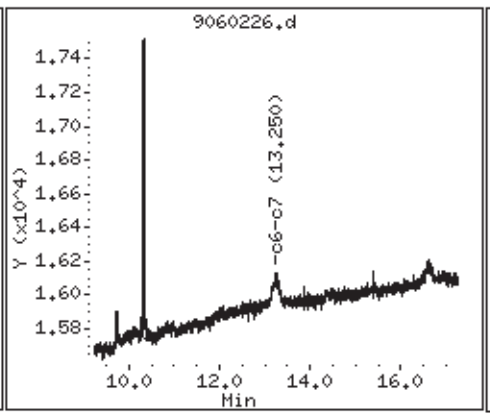
16 isopentane (Undetected)



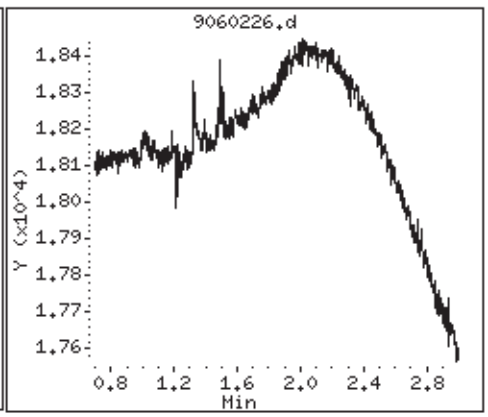
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

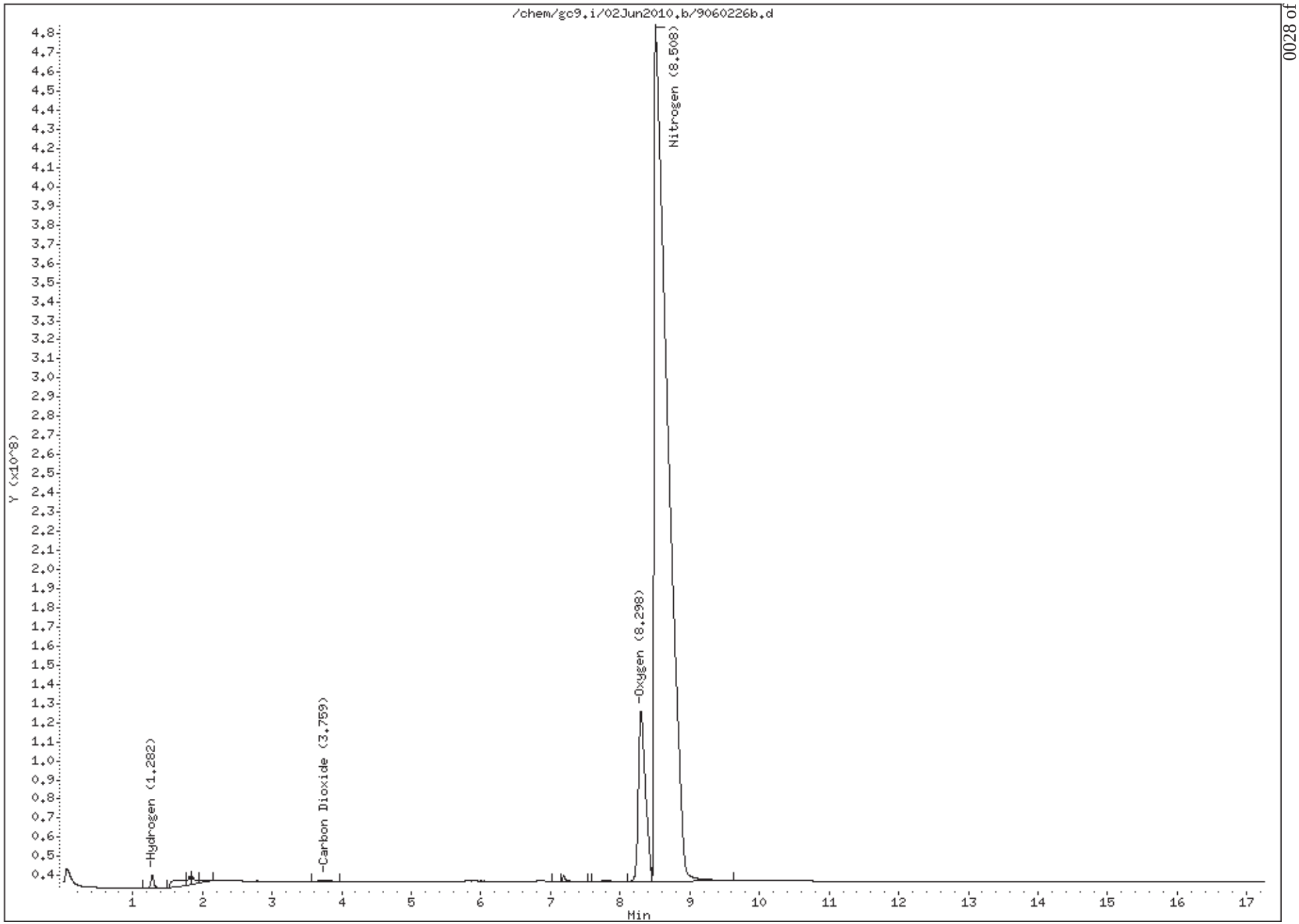
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060226b.d
Lab Smp Id: 1005522B-02A
Inj Date : 02-JUN-2010 20:56
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,34445;1005522B-02A;
Misc Info : 6.0"Hg->5psi, Exponent
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201b.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

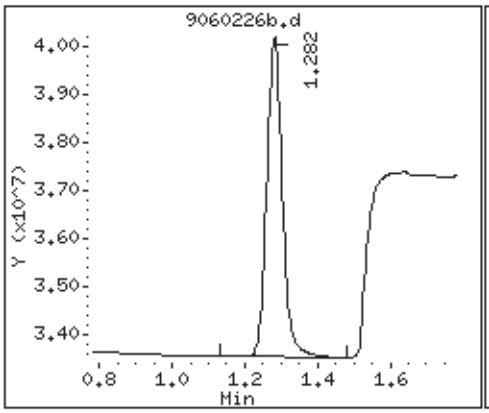
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

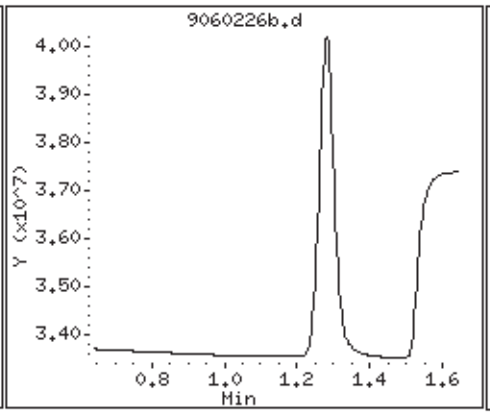
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2 Hydrogen	1.282	1.285	-0.003	99370869	0.95224	1.60
1 Helium	Compound Not Detected.					
3 Carbon Dioxide	3.759	3.348	0.411	5273013	0.01047	0.0176
9 Oxygen	8.298	8.330	-0.032	3142939635	10.0219	16.8
10 Nitrogen	8.508	8.540	-0.032	29947106151	87.7328	147
12 Carbon Monoxide	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060226b.d
Y (x10^8)
Min
Hydrogen (1.282)
Carbon Dioxide (3.759)
Oxygen (8.298)
Nitrogen (8.508)

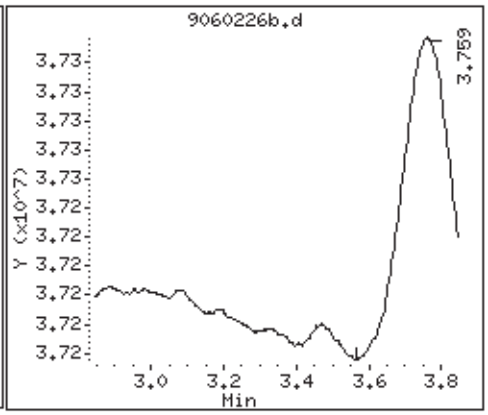
2 Hydrogen



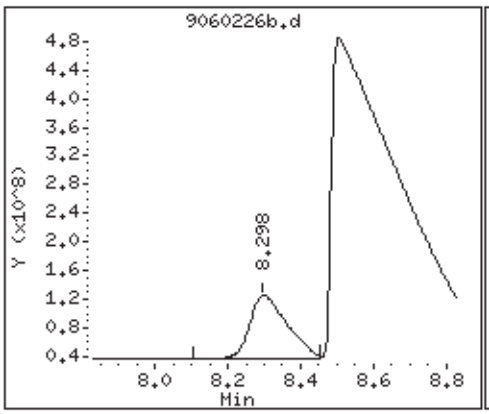
1 Helium (Undetected)



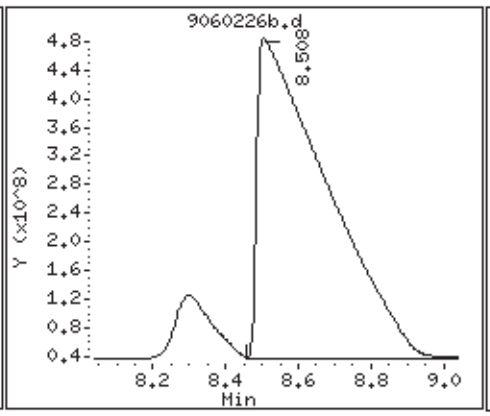
3 Carbon Dioxide



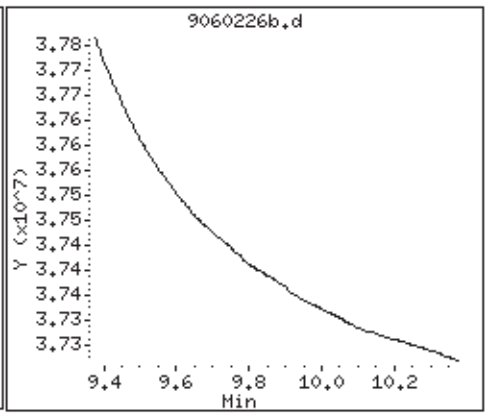
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: GV-12

Lab ID#: 1005522B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	19
Nitrogen	0.16	80
Methane	0.00016	0.0079
Carbon Dioxide	0.016	0.18
Hydrogen	0.016	0.061
Helium	0.078	0.75

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: GV-12

Lab ID#: 1005522B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060227**	**Date of Collection: 5/16/10**	
Dil. Factor:	**1.55**	**Date of Analysis: 6/2/10 09:18 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	19
Nitrogen	0.16	80
Carbon Monoxide	0.016	Not Detected
Methane	0.00016	0.0079
Carbon Dioxide	0.016	0.18
Ethane	0.0016	Not Detected
Ethene	0.0016	Not Detected
Acetylene	0.0016	Not Detected
Propane	0.0016	Not Detected
Isobutane	0.0016	Not Detected
Butane	0.0016	Not Detected
Neopentane	0.0016	Not Detected
Isopentane	0.0016	Not Detected
Pentane	0.0016	Not Detected
C6+	0.016	Not Detected
Hydrogen	0.016	0.061
Helium	0.078	0.75

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

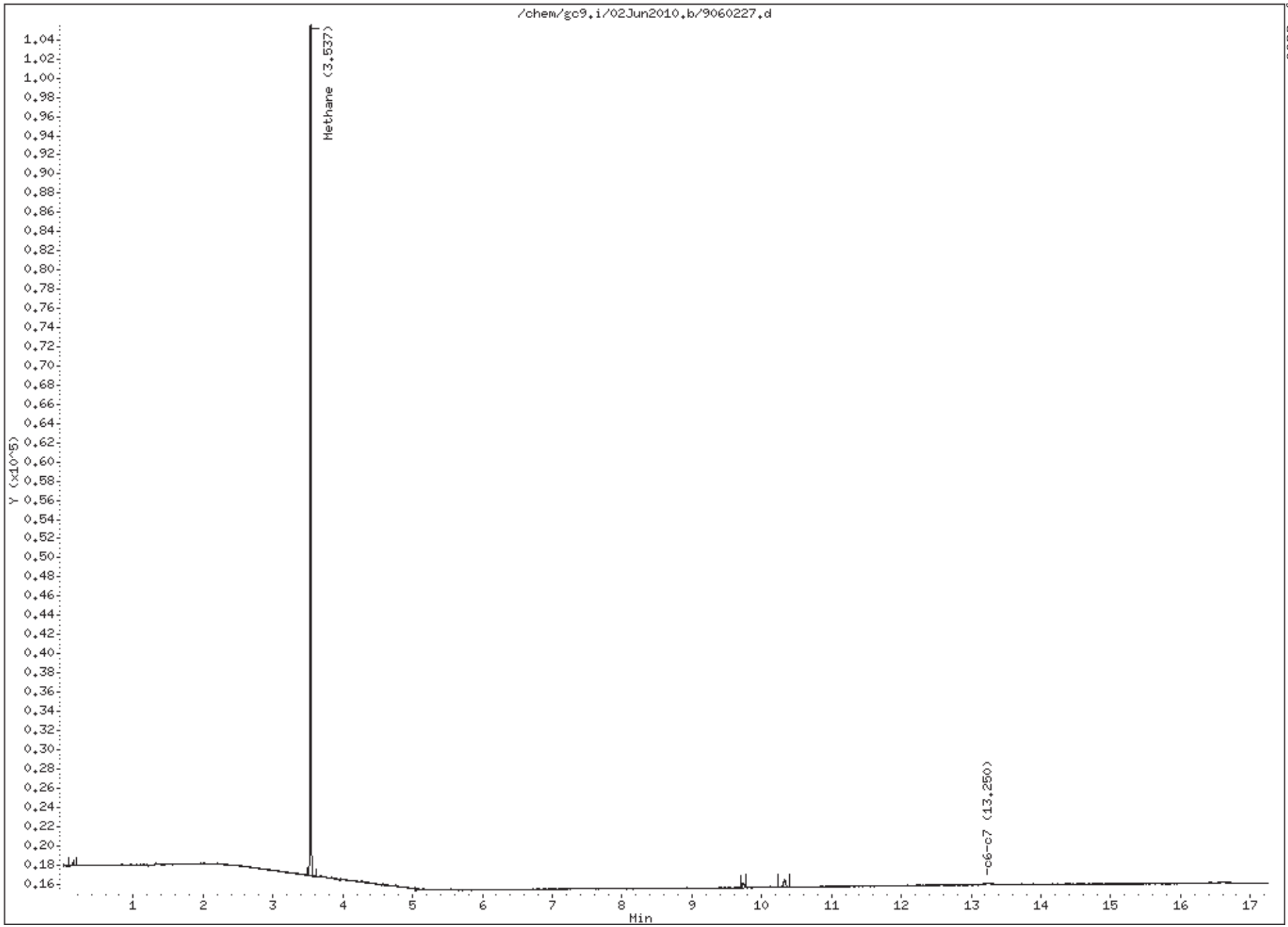
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060227.d
Lab Smp Id: 1005522B-04A
Inj Date : 02-JUN-2010 21:18
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,35285
Misc Info : 4.0"Hg->5psi, Exponent
Comment : GC FID
Method : /chem/gc9.i/02Jun2010.b/910n0430.m
Meth Date : 03-Jun-2010 16:03 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
Als bottle: 1
Dil Factor: 1.55000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

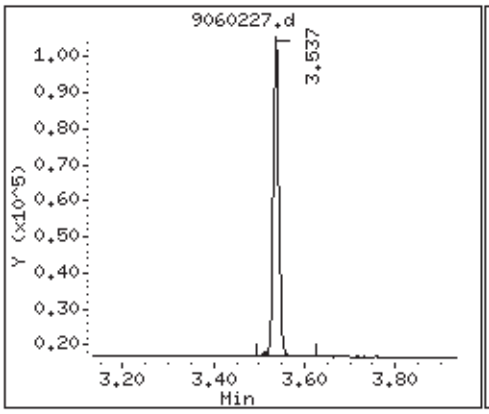
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

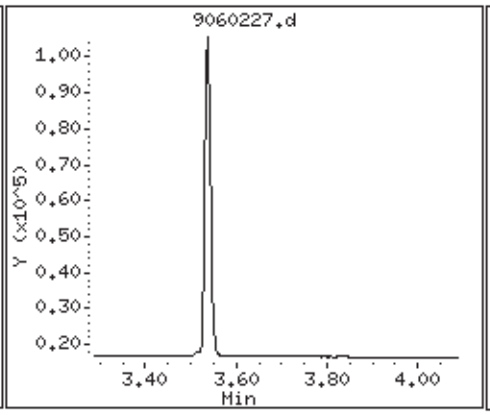
	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2	Methane	3.537	3.536	0.001	791293	0.00510	0.00790
3	ethane	Compound Not Detected.					
4	ethene	Compound Not Detected.					
5	propane	Compound Not Detected.					
7	acetylene	Compound Not Detected.					
8	iso-butane	Compound Not Detected.					
10	n-butane	Compound Not Detected.					
15	neo-pentane	Compound Not Detected.					
16	isopentane	Compound Not Detected.					
17	pentane	Compound Not Detected.					
M 37	C6+ Hydrocarbons	Compound Not Detected.					
S 22	c6-c7	Compound Not Detected.					
S 36	c8+	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060227.d
Methane (3.537)
-c6-c7 (13.250)
Y (x10^5)
Min

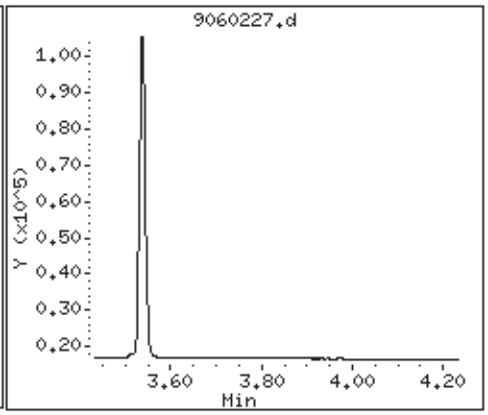
2 Methane



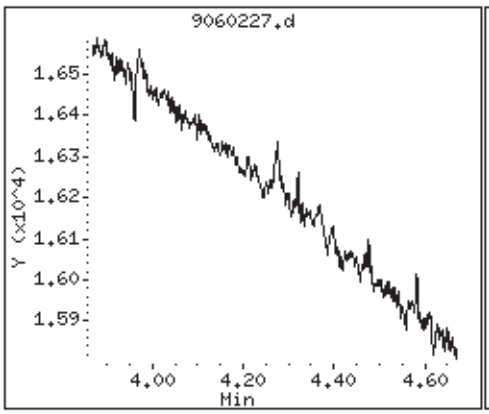
3 ethane (Undetected)



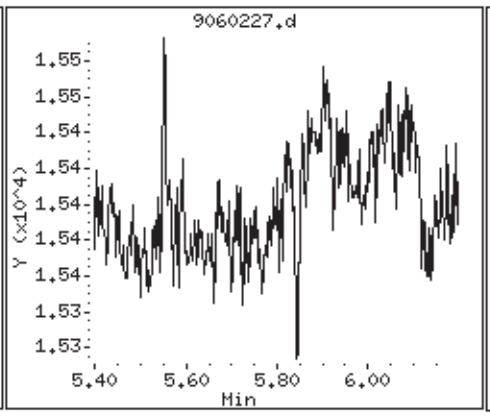
4 ethene (Undetected)



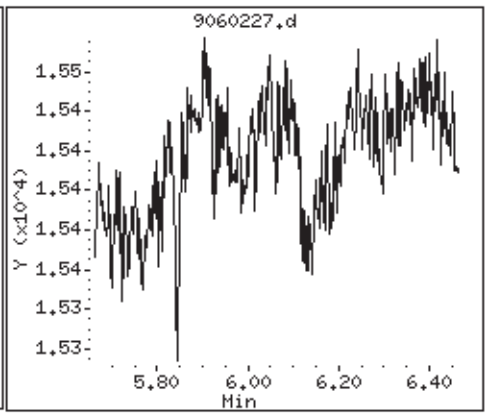
5 propane (Undetected)



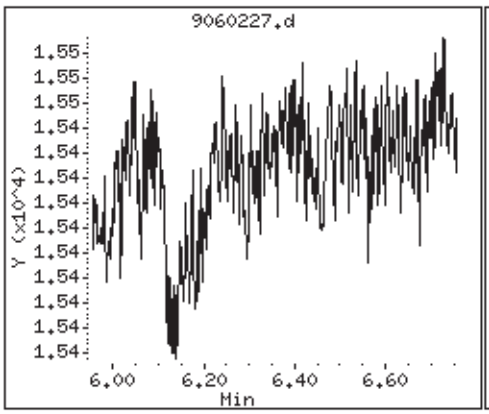
7 acetylene (Undetected)



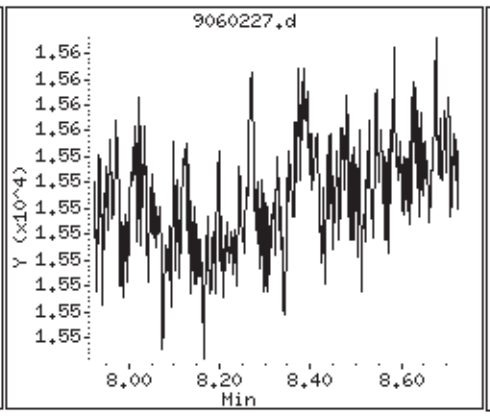
8 iso-butane (Undetected)



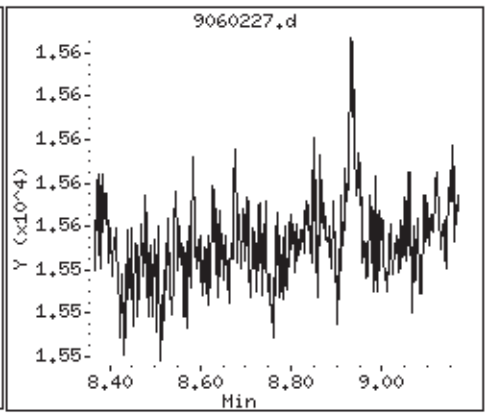
10 n-butane (Undetected)



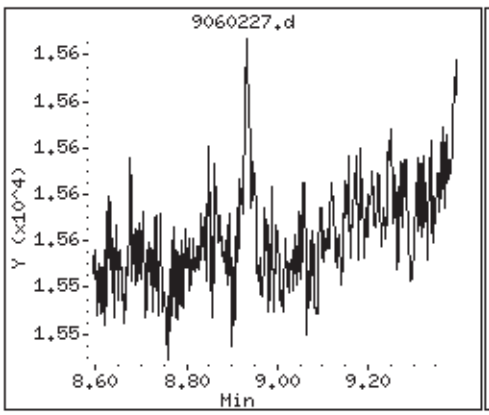
15 neo-pentane (Undetected



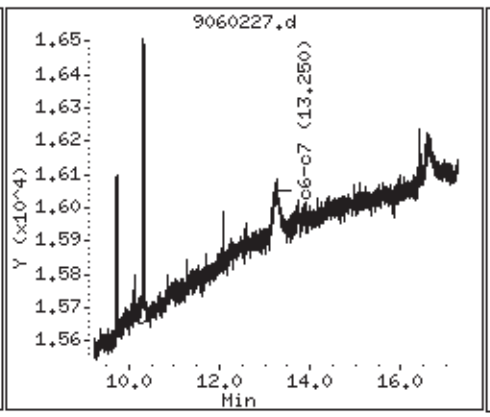
16 isopentane (Undetected)



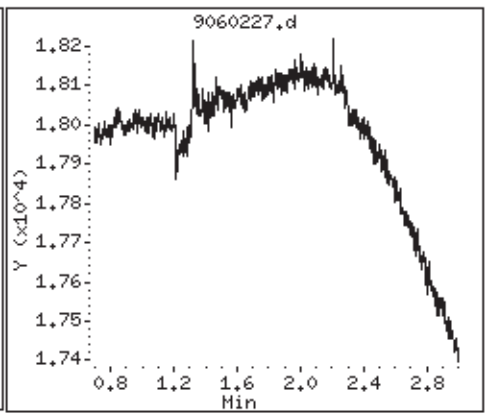
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

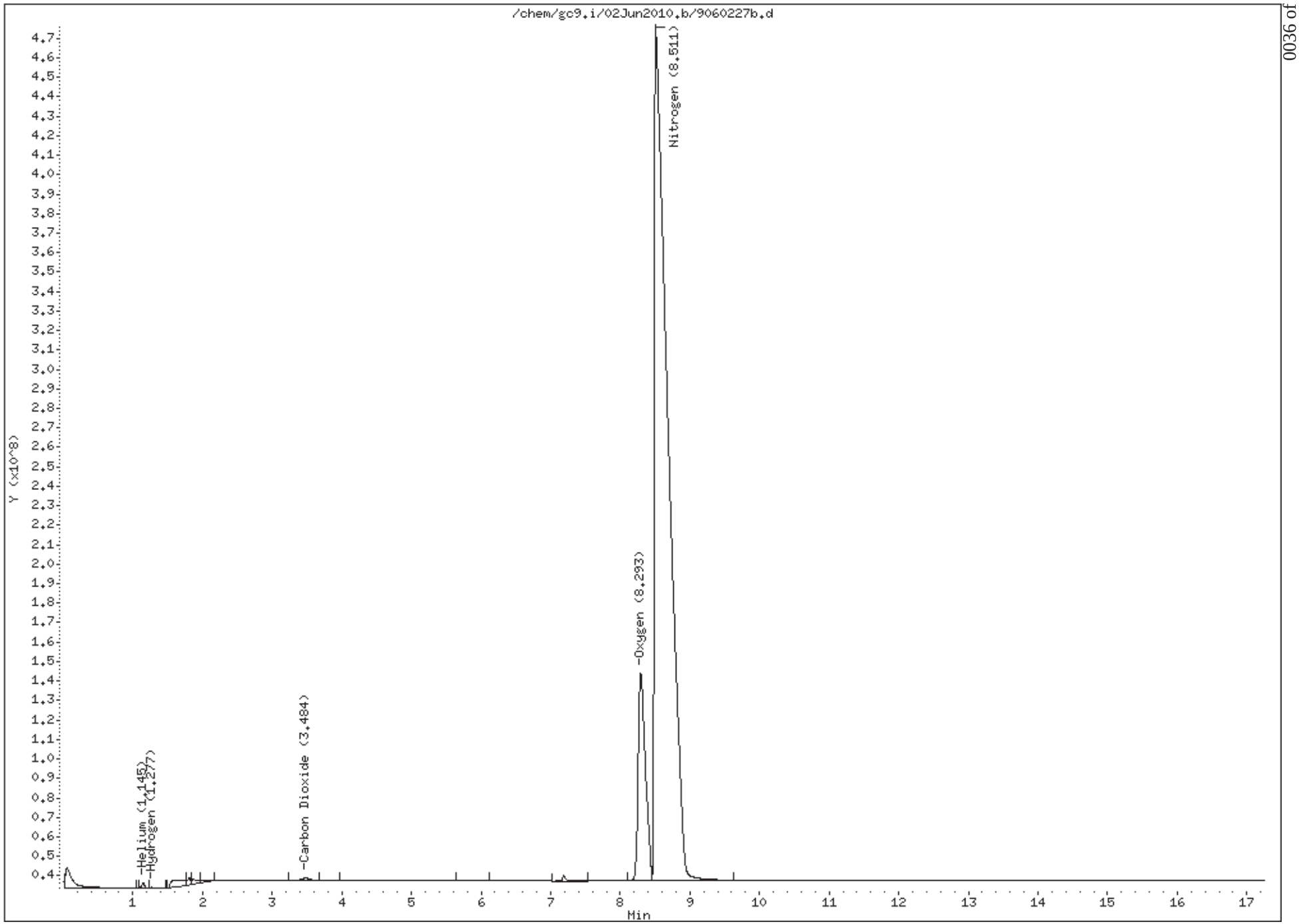
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060227b.d
Lab Smp Id: 1005522B-04A
Inj Date : 02-JUN-2010 21:18
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,35285;1005522B-04A;
Misc Info : 4.0"Hg->5psi, Exponent
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201b.d
Als bottle: 1
Dil Factor: 1.55000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

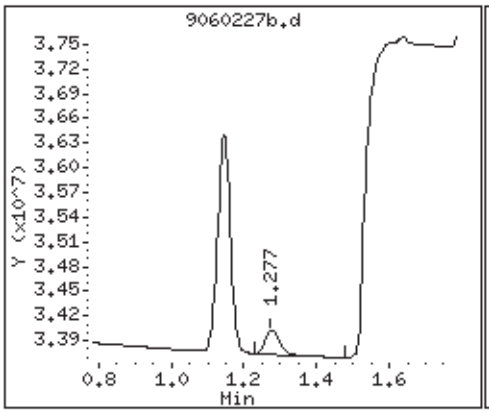
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

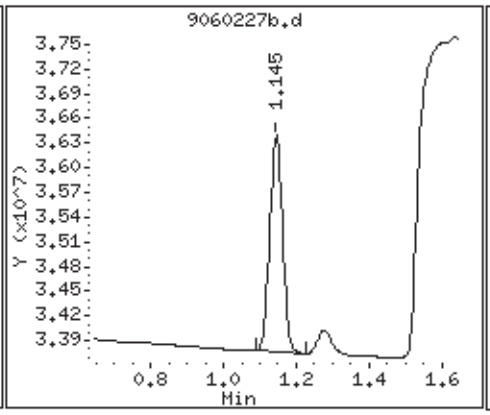
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2 Hydrogen	1.277	1.285	-0.008	4077615	0.03907	0.0606
1 Helium	1.145	1.146	-0.001	32063865	0.48097	0.746
3 Carbon Dioxide	3.484	3.348	0.136	60248645	0.11961	0.185
9 Oxygen	8.293	8.330	-0.037	3874117770	12.3534	19.1
10 Nitrogen	8.511	8.540	-0.029	29390403794	86.1019	133
12 Carbon Monoxide	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060227b.d
Y (x10^8)
Min
Helium (1.145)
Hydrogen (1.277)
Carbon Dioxide (3.484)
Oxygen (8.293)
Nitrogen (8.511)

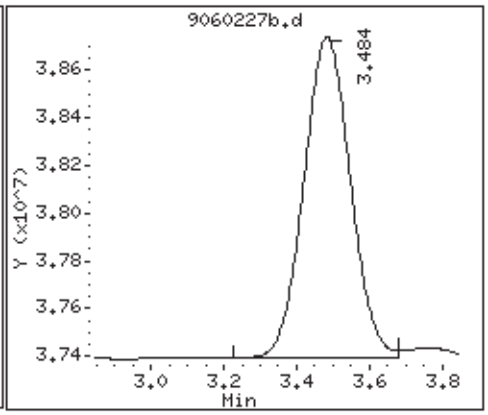
2 Hydrogen



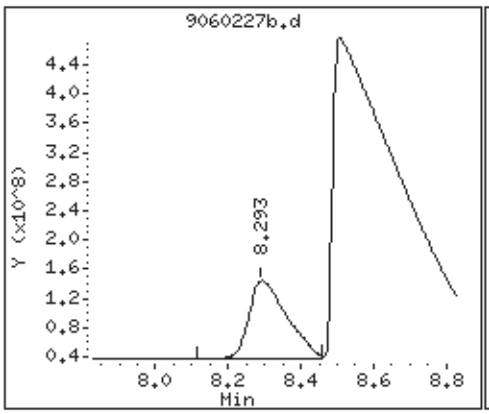
1 Helium



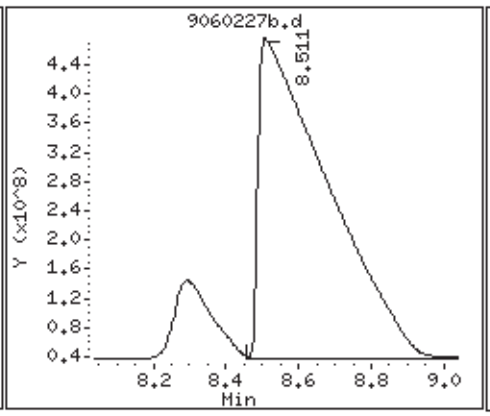
3 Carbon Dioxide



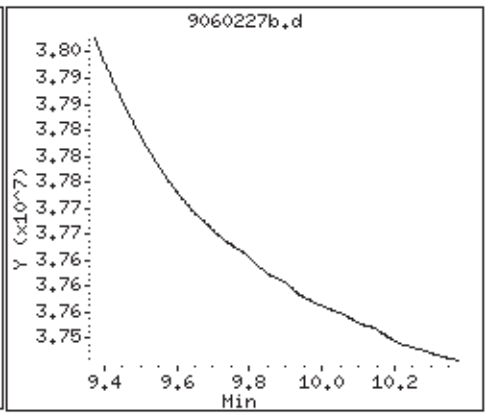
9 Oxygen



10 Nitrogen



12 Carbon Monoxide (Undete



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

Client Sample ID: Trip Blank

Lab ID#: 1005522B-11A

Compound	Rpt. Limit (%)	Amount (%)
Nitrogen	0.10	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1005522B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060228**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 09:40 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	100
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected
Hydrogen	0.010	Not Detected
Helium	0.050	Not Detected

Container Type: 6 Liter Summa Canister

Air Toxics Ltd.

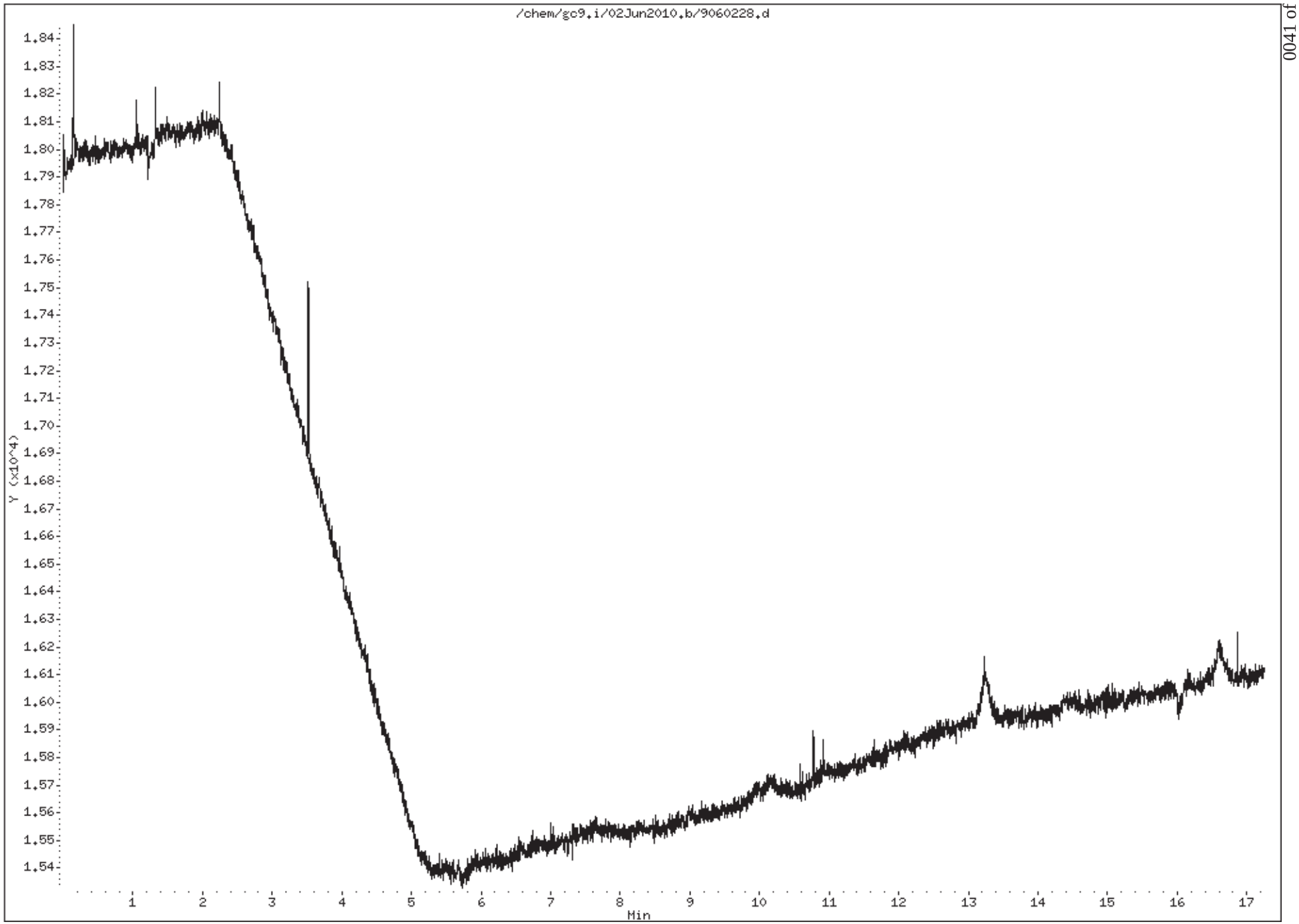
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060228.d
Lab Smp Id: 1005522B-11A
Inj Date : 02-JUN-2010 21:40
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,4235
Misc Info : 28.5"Hg->5psi, Exponent
Comment : GC FID
Method : /chem/gc9.i/02Jun2010.b/910n0430.m
Meth Date : 03-Jun-2010 16:03 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

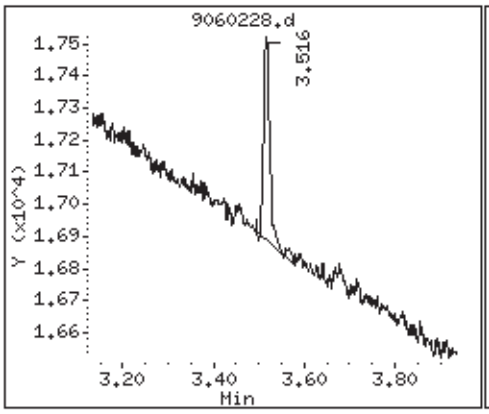
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

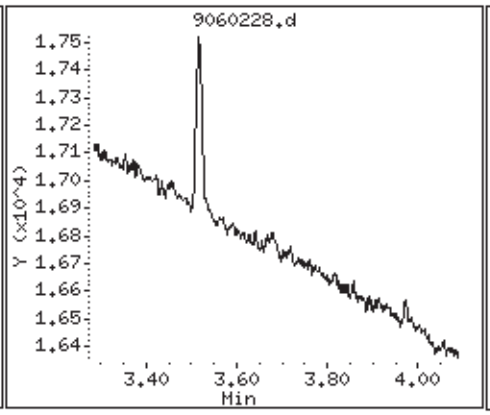
					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
2 Methane	Compound Not Detected.					
3 ethane	Compound Not Detected.					
4 ethene	Compound Not Detected.					
5 propane	Compound Not Detected.					
7 acetylene	Compound Not Detected.					
8 iso-butane	Compound Not Detected.					
10 n-butane	Compound Not Detected.					
15 neo-pentane	Compound Not Detected.					
16 isopentane	Compound Not Detected.					
17 pentane	Compound Not Detected.					
M 37 C6+ Hydrocarbons	Compound Not Detected.					
S 22 c6-c7	Compound Not Detected.					
S 36 c8+	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060228.d
Y (x10^4)
1.84
1.83
1.82
1.81
1.80
1.79
1.78
1.77
1.76
1.75
1.74
1.73
1.72
1.71
1.70
1.69
1.68
1.67
1.66
1.65
1.64
1.63
1.62
1.61
1.60
1.59
1.58
1.57
1.56
1.55
1.54
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

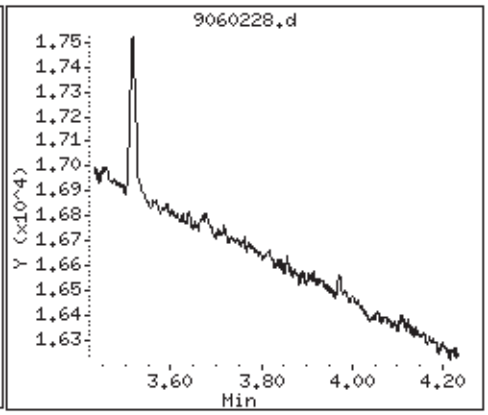
2 Methane (Undetected)



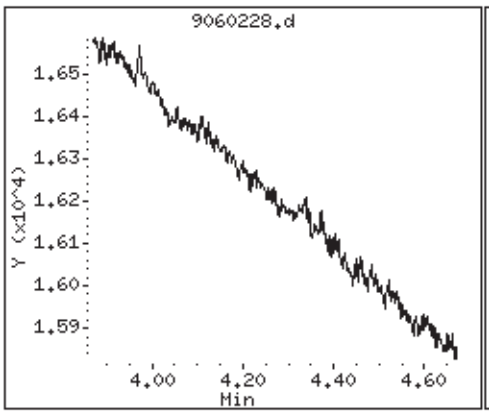
3 ethane (Undetected)



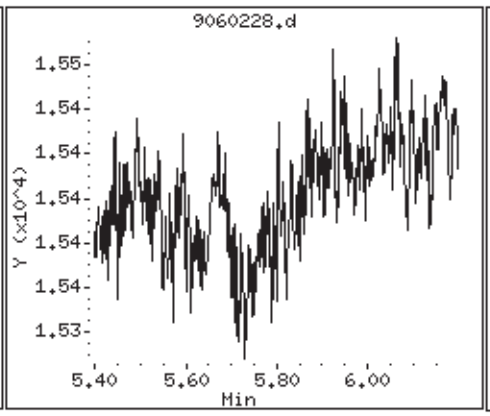
4 ethene (Undetected)



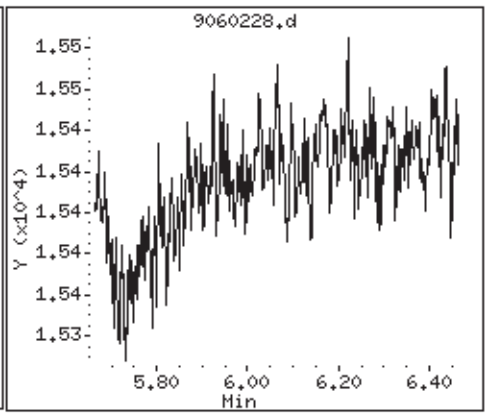
5 propane (Undetected)



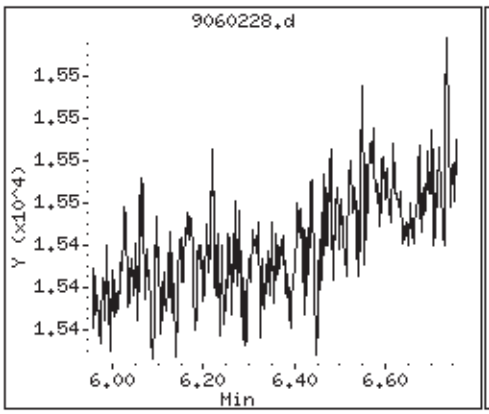
7 acetylene (Undetected)



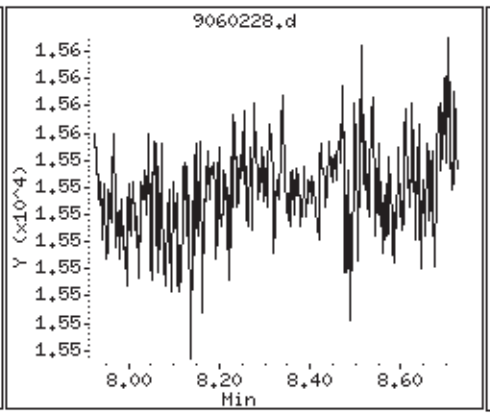
8 iso-butane (Undetected)



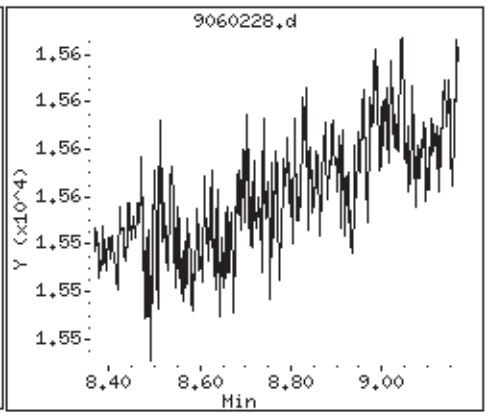
10 n-butane (Undetected)



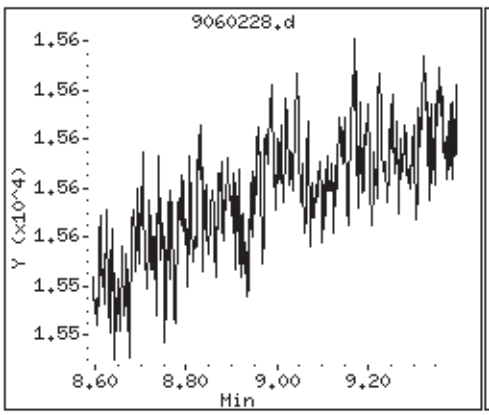
15 neo-pentane (Undetected



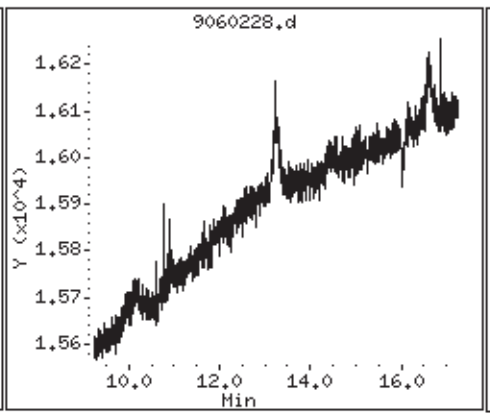
16 isopentane (Undetected)



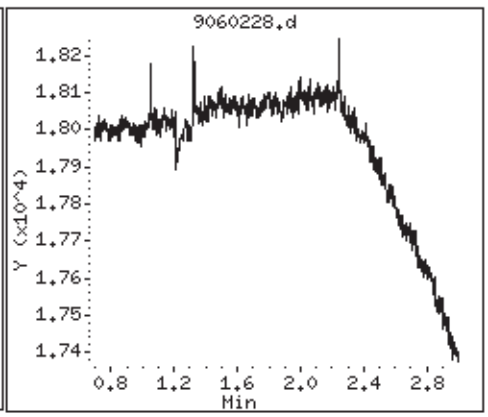
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

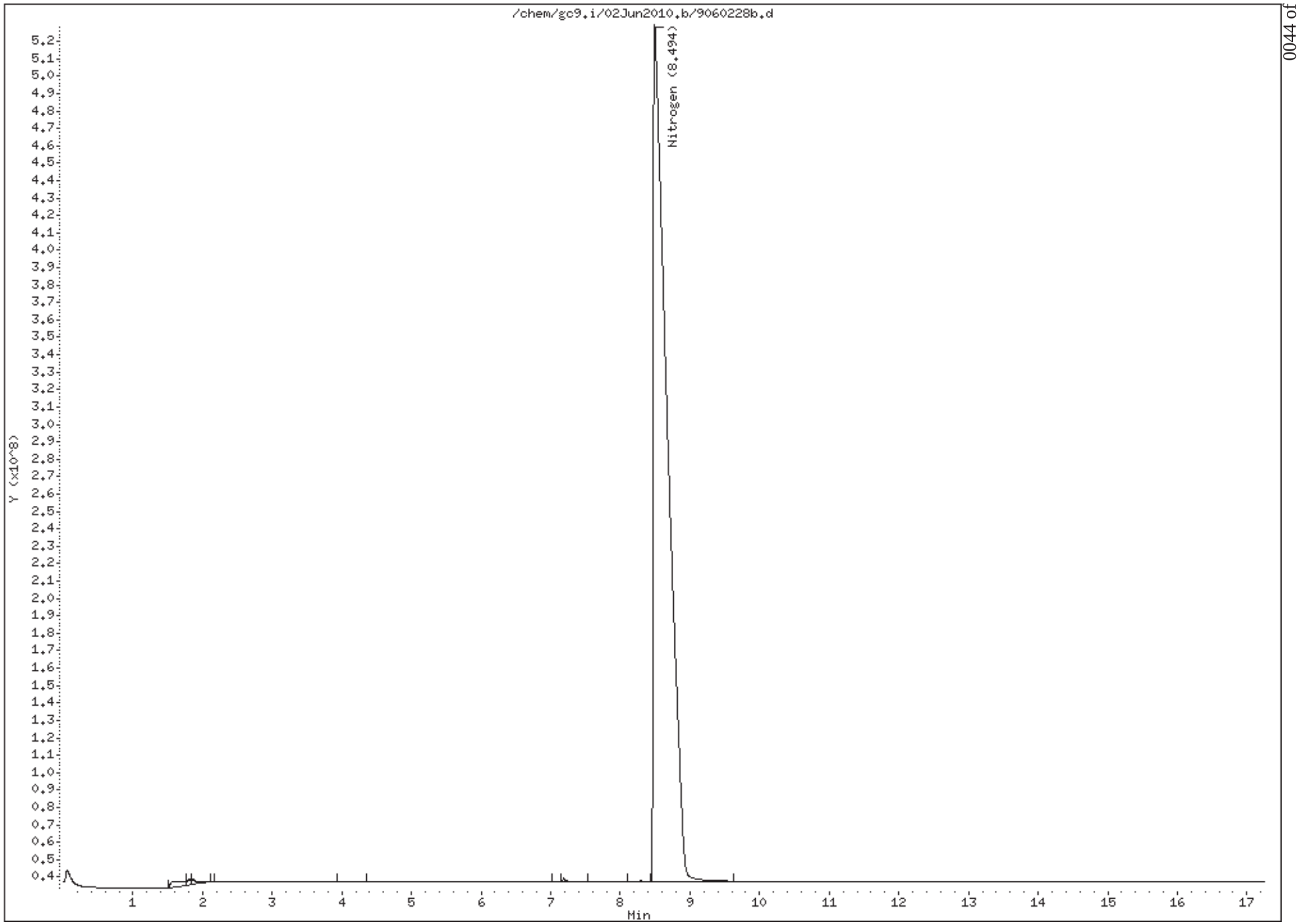
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060228b.d
Lab Smp Id: 1005522B-11A
Inj Date : 02-JUN-2010 21:40
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,4235;1005522B-11A;
Misc Info : 28.5"Hg->5psi, Exponent
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 22:28 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

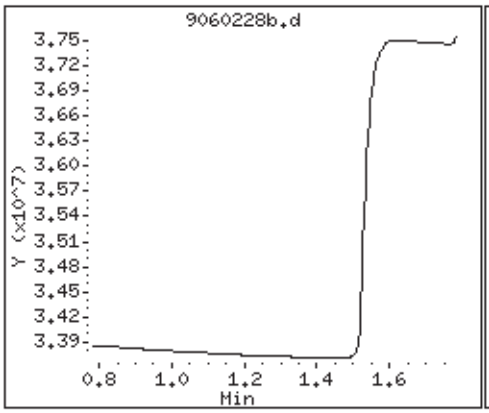
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

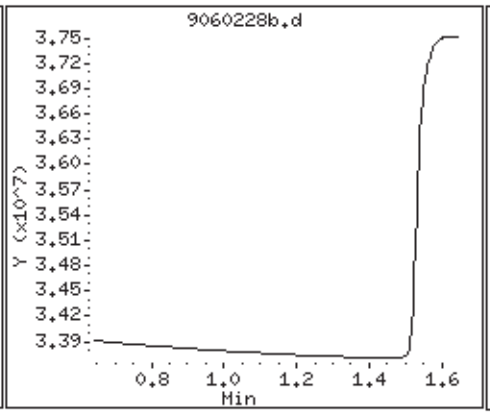
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
2 Hydrogen	Compound Not Detected.					
1 Helium	Compound Not Detected.					
3 Carbon Dioxide	Compound Not Detected.					
9 Oxygen	Compound Not Detected.					
10 Nitrogen	8.494	8.540	-0.046	34083613262	99.8511	99.8
12 Carbon Monoxide	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060228b.d
Nitrogen (8.494)
Y (x10^8)
Min

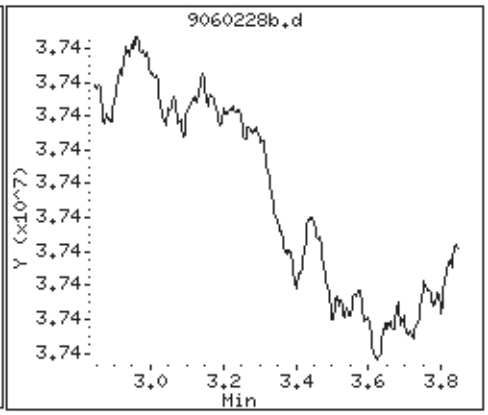
2 Hydrogen (Undetected)



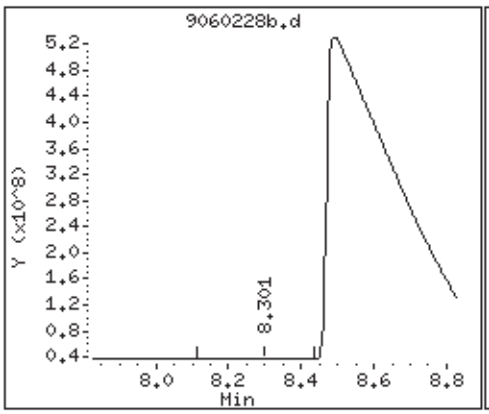
1 Helium (Undetected)



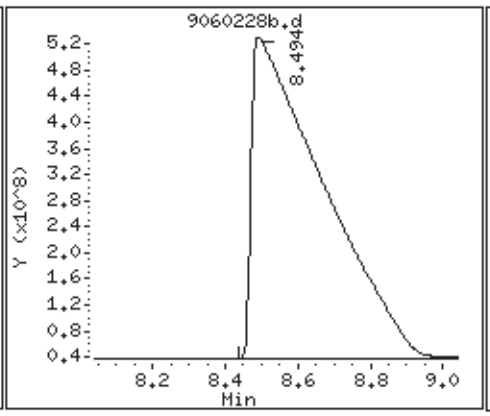
3 Carbon Dioxide (Undetec



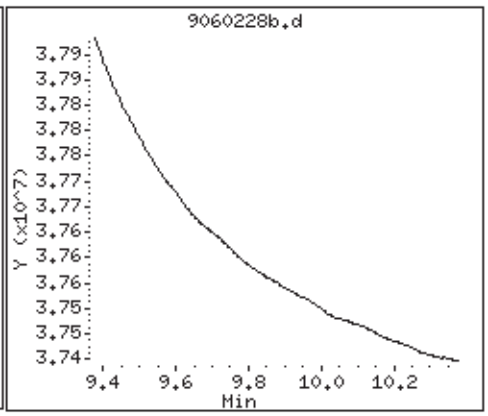
9 Oxygen (Undetected)



10 Nitrogen



12 Carbon Monoxide (Undete



QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005522B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 11:52 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected
Acetylene	0.0010	Not Detected
Propane	0.0010	Not Detected
Isobutane	0.0010	Not Detected
Butane	0.0010	Not Detected
Neopentane	0.0010	Not Detected
Isopentane	0.0010	Not Detected
Pentane	0.0010	Not Detected
C6+	0.010	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.

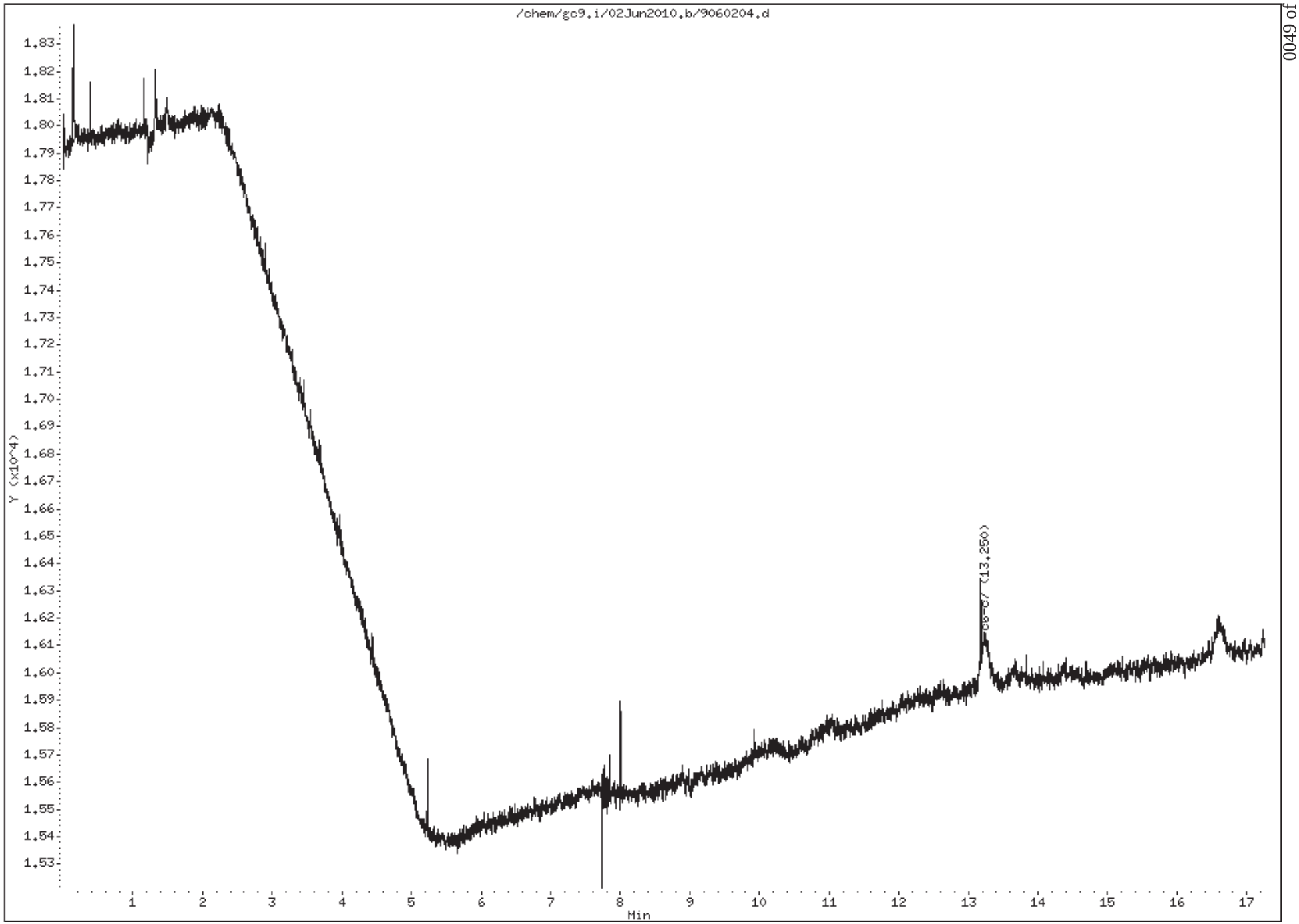
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/02Jun2010.b/9060204.d
Lab Smp Id: He Lab Blank Client Smp ID: Lab Blank
Inj Date : 02-JUN-2010 11:52
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,14014;He Lab Blank;Lab Blank;
Misc Info : He
Comment : GC FID
Method : /chem/gc9.i/02Jun2010.b/910n0430.m
Meth Date : 02-Jun-2010 10:55 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 10:32 Cal File: 9060201.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

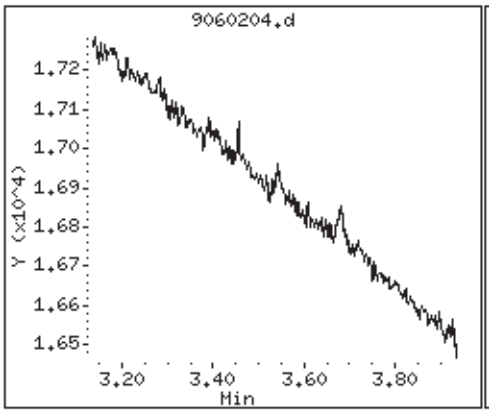
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

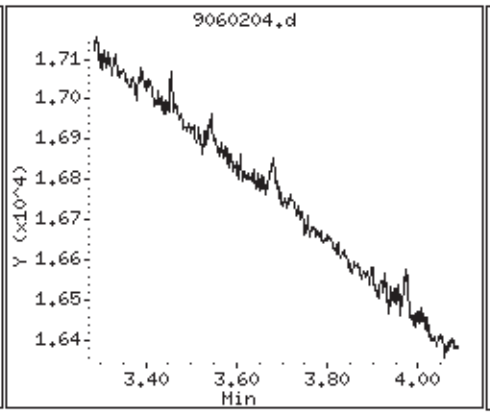
						CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
2	Methane	Compound Not Detected.					
3	ethane	Compound Not Detected.					
4	ethene	Compound Not Detected.					
5	propane	Compound Not Detected.					
7	acetylene	Compound Not Detected.					
8	iso-butane	Compound Not Detected.					
10	n-butane	Compound Not Detected.					
15	neo-pentane	Compound Not Detected.					
16	isopentane	Compound Not Detected.					
17	pentane	Compound Not Detected.					
M 37	C6+ Hydrocarbons	Compound Not Detected.					
S 22	c6-c7	Compound Not Detected.					
S 36	c8+	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060204.d
Y (x10^4)
1.83
1.82
1.81
1.80
1.79
1.78
1.77
1.76
1.75
1.74
1.73
1.72
1.71
1.70
1.69
1.68
1.67
1.66
1.65
1.64
1.63
1.62
1.61
1.60
1.59
1.58
1.57
1.56
1.55
1.54
1.53
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

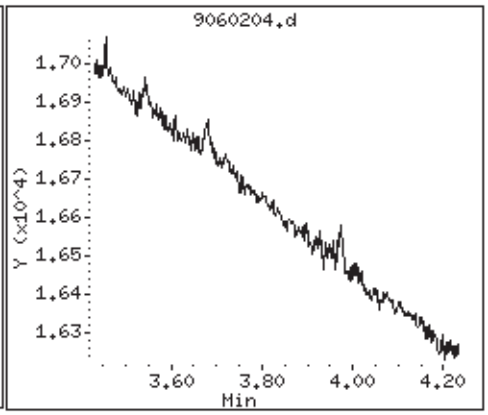
2 Methane (Undetected)



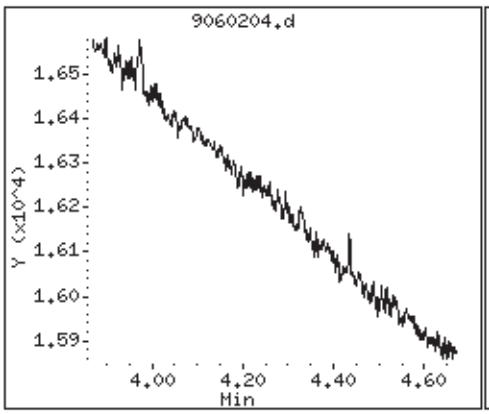
3 ethane (Undetected)



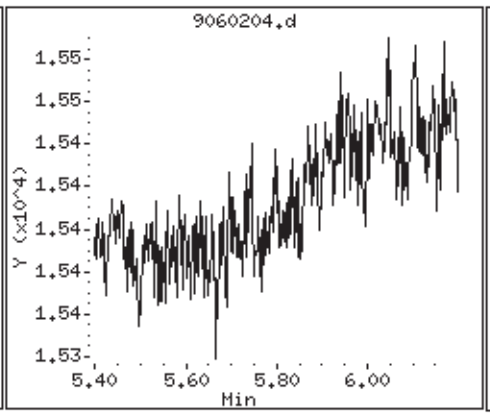
4 ethene (Undetected)



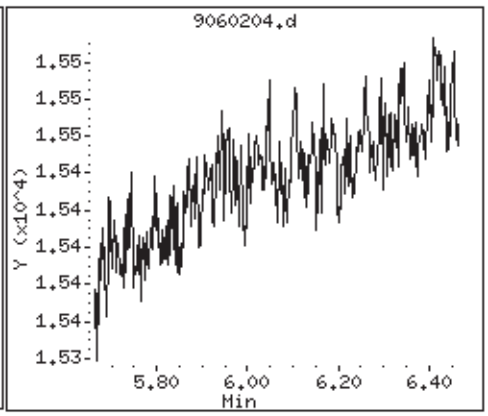
5 propane (Undetected)



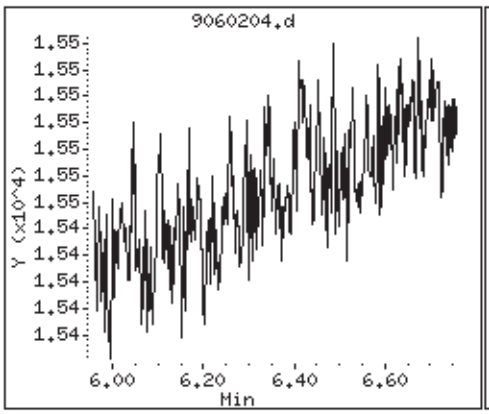
7 acetylene (Undetected)



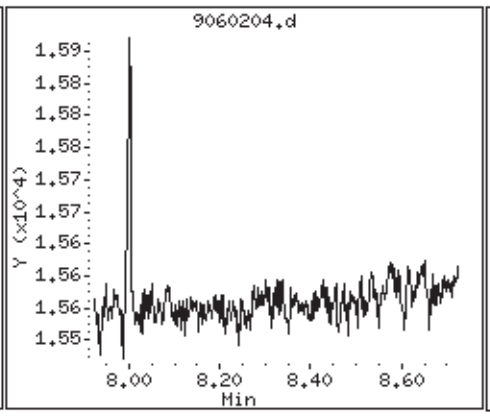
8 iso-butane (Undetected)



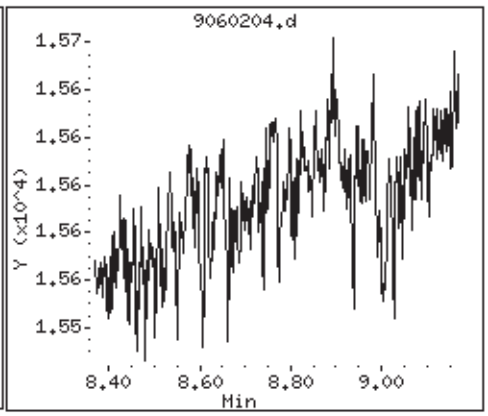
10 n-butane (Undetected)



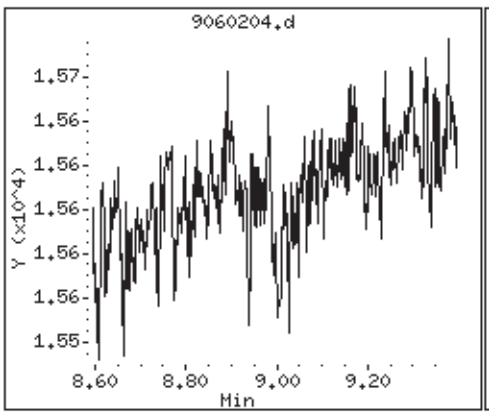
15 neo-pentane (Undetected



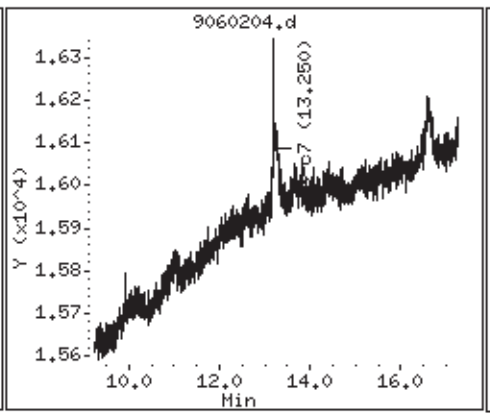
16 isopentane (Undetected)



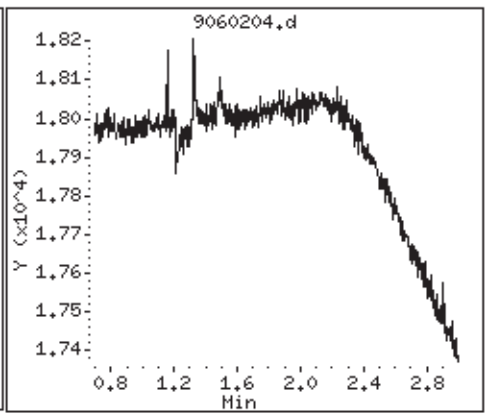
17 pentane (Undetected)



S 22 c6-c7 (Undetected)



S 36 c8+ (Undetected)



Air Toxics Ltd.

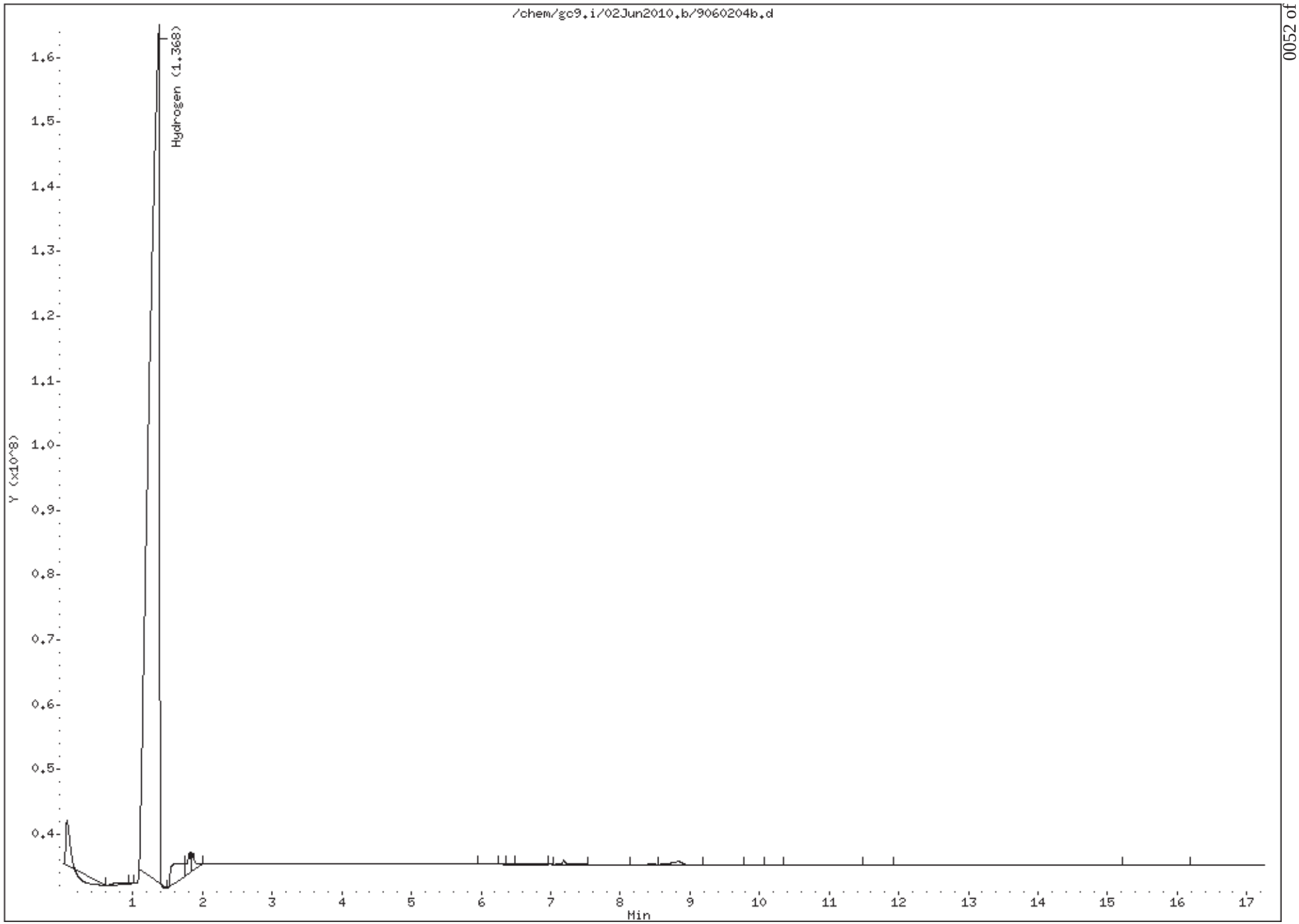
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060204b.d
Lab Smp Id: He Lab Blank Client Smp ID: Lab Blank
Inj Date : 02-JUN-2010 11:52
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,14014;He Lab Blank;Lab Blank;
Misc Info : He
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 11:22 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 11:04 Cal File: 9060202b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas-H2He.sub
Target Version: 3.50
Processing Host: eeyore

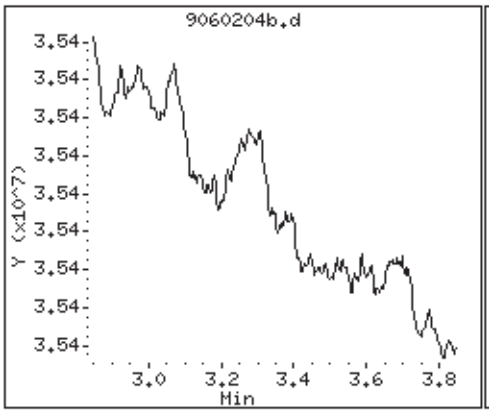
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

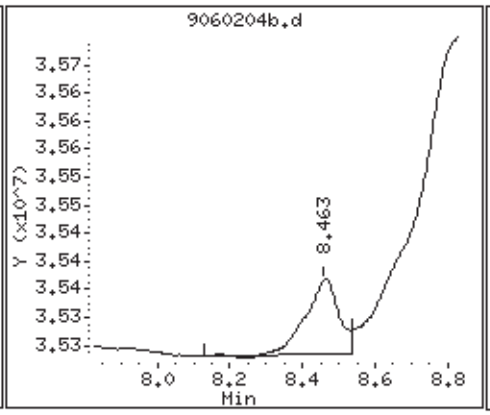
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
3 Carbon Dioxide	Compound Not Detected.					
9 Oxygen	Compound Not Detected.					
10 Nitrogen	Compound Not Detected.					
12 Carbon Monoxide	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060204b.d
Hydrogen (1.368)
Y (x10^8)
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

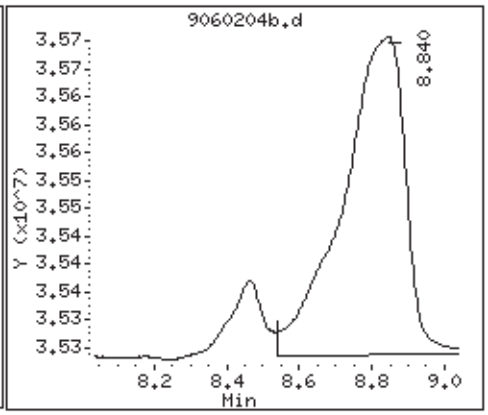
3 Carbon Dioxide (Undetec



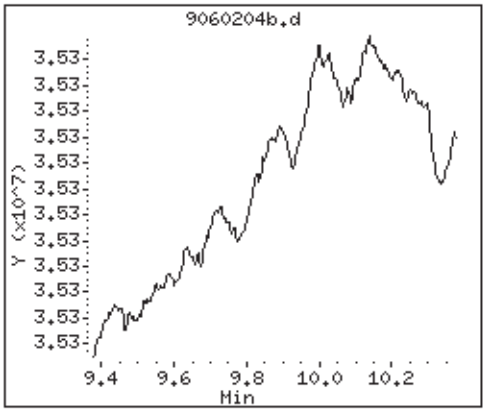
9 Oxygen (Undetected)



10 Nitrogen (Undetected)



12 Carbon Monoxide (Undete



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1005522B-12B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1945

File Name:	**9060203b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/2/10 11:27 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Hydrogen	0.010	Not Detected
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.

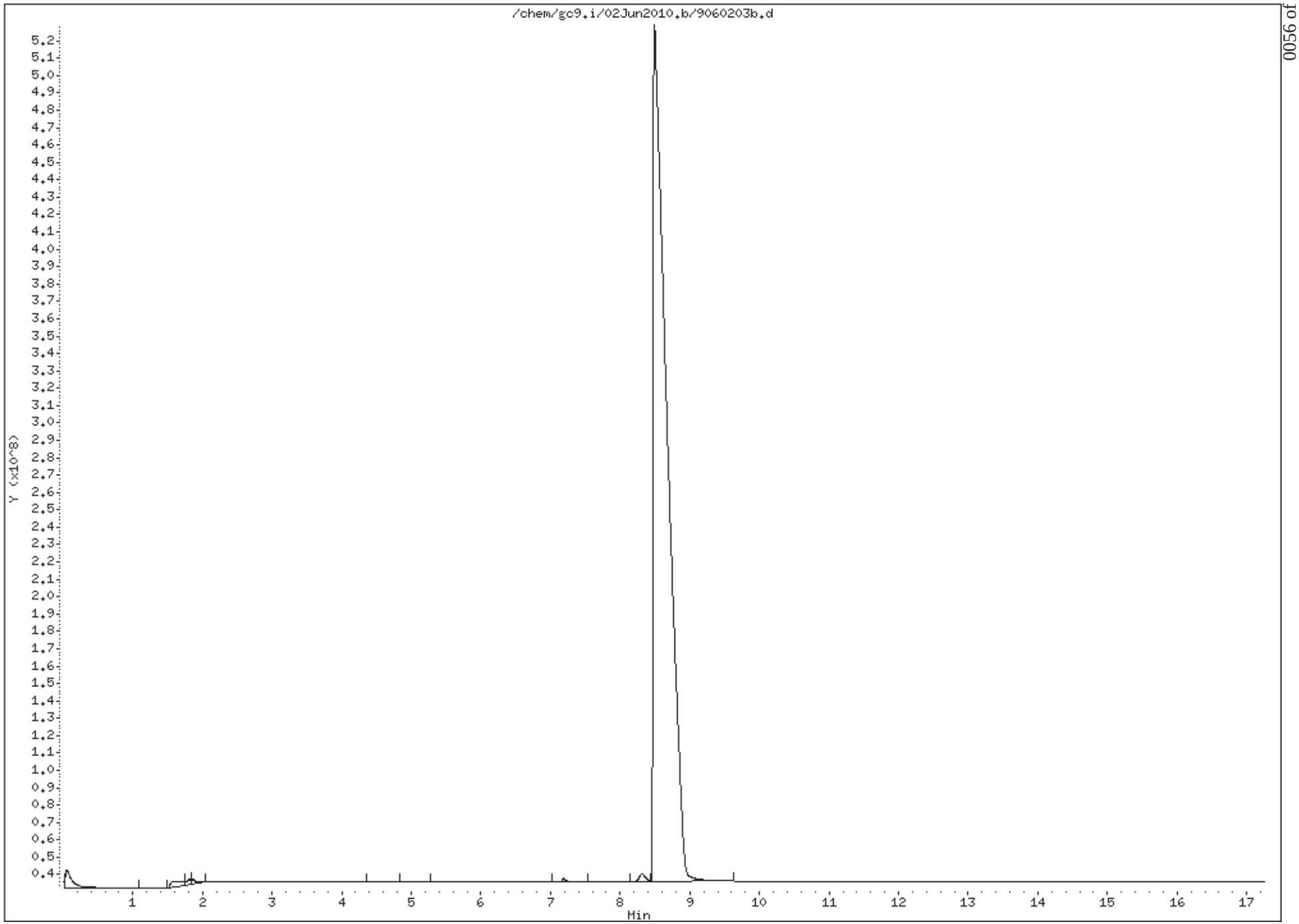
Modified ASTM D-1945

Data file : /chem/gc9.i/02Jun2010.b/9060203b.d
Lab Smp Id: N2 Lab Blank Client Smp ID: Lab Blank
Inj Date : 02-JUN-2010 11:27
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,33868;N2 Lab Blank;Lab Blank;
Misc Info : N2
Comment : GC/TCD
Method : /chem/gc9.i/02Jun2010.b/910n0430.m/910C0417.m
Meth Date : 02-Jun-2010 11:22 lyohanne Quant Type: ESTD
Cal Date : 02-JUN-2010 11:04 Cal File: 9060202b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: heh2.sub
Target Version: 3.50
Processing Host: eeyore

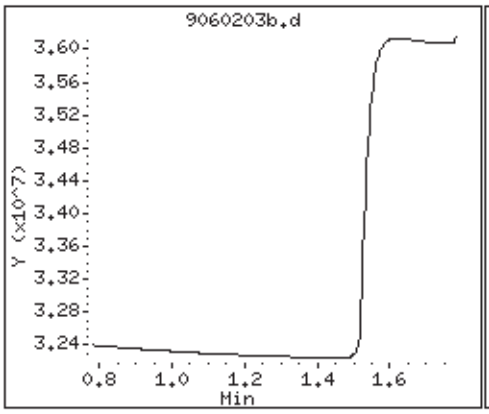
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

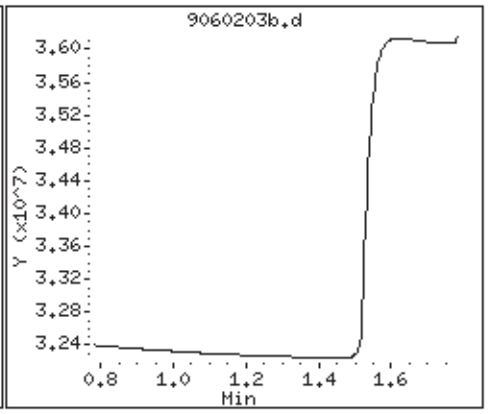
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (%)	CONCENTRATIONS FINAL (%)
1 Helium	Compound Not Detected.					
2 Hydrogen	Compound Not Detected.					


/chem/gc9.i/02Jun2010.b/9060203b.d
Y (x10^8)
5.2
5.1
5.0
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

1 Helium (Undetected)



2 Hydrogen (Undetected)



SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 9060225.d & 9060224.d

Lab Sample ID: 01A & 01AA

Dilution: 1.63 & 1.63

Client Sample ID: &

Date Analyzed: 6/2/10 & 6/2/10

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
74-86-2	Acetylene	ND	U	ND	U	0	
106-97-8	Butane	ND	U	ND	U	0	
C6+	C6+	ND	U	ND	U	0	
124-38-9	Carbon Dioxide	0.0174		0.02		14	Y
630-08-0	Carbon Monoxide	ND	U	ND	U	0	
74-84-0	Ethane	ND	U	ND	U	0	
74-85-1	Ethene	ND	U	ND	U	0	
7440-59-7	Helium	ND	U	ND	U	0	
1333-74-0	Hydrogen	1.61		1.6		0.62	
75-28-5	Isobutane	ND	U	ND	U	0	
78-78-4	Isopentane	ND	U	ND	U	0	
74-82-8	Methane	0.0535		0.0528		1.3	
463-82-1	Neopentane	ND	U	ND	U	0	
7727-37-9	Nitrogen	82		82		0	
7782-44-7	Oxygen	16.5		16.5		0	
109-66-0	Pentane	ND	U	ND	U	0	
74-98-6	Propane	ND	U	ND	U	0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-APR-2010 09:54
End Cal Date : 30-APR-2010 17:55
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gc9.i/30Apr2010.b/910n0430.m
Cal Date : 03-May-2010 11:56 tstriepe
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc9.i/30Apr2010.b/9043002.d
Level 2: /chem/gc9.i/30Apr2010.b/9043003a.d
Level 3: /chem/gc9.i/30Apr2010.b/9043004a.d
Level 4: /chem/gc9.i/30Apr2010.b/9043005a.d
Level 5: /chem/gc9.i/30Apr2010.b/9043006a.d
Level 6: /chem/gc9.i/30Apr2010.b/9043015.d

		0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	___	
	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	2 Methane	202080000	153736294	155083221	164416716	152510874	+++++	165565421	12.651
	3 ethane	+++++	298674490	300191532	318558652	298734521	306748072	304581453	2.788
	4 ethene	+++++	294083838	295770942	314597500	294555688	295628733	298927340	2.940
	5 propane	+++++	444823000	453448907	481920337	452081585	478780558	462210877	3.660
	7 acetylene	+++++	359859596	367637600	394417525	372723723	+++++	373659611	3.965
	8 iso-butane	+++++	586741414	602800200	641421360	603314068	+++++	608569261	3.814
	10 n-butane	+++++	589788889	601382966	642135900	606050212	697960475	627463688	7.012
	15 neo-pentane	+++++	784290000	802413690	848947248	800882990	+++++	809133482	3.434
	16 isopentane	+++++	746938000	758502381	802097129	758571360	666396985	746501171	6.630
	17 pentane	+++++	752239000	764838889	810372376	768282568	769758534	773098274	2.839
	39 Hexane	+++++	901288000	913222709	972456653	920953817	+++++	926980295	3.385
	40 Heptane	+++++	1.028e+09	1.048e+09	1.148e+09	1.079e+09	+++++	1.076e+09	4.870
S	22 c6-c7	+++++	+++++	983751953	1.070e+09	1.010e+09	+++++	1.021e+09	4.327
M	37 C6+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	1.021e+09	+++++
S	36 c8+	+++++	+++++	+++++	+++++	+++++	+++++	1.021e+09	+++++

Calibration History

Method : /var/chem/gc9.i/30Apr2010.b/910n0430.m
Start Cal Date: 30-APR-2010 09:54
End Cal Date : 30-APR-2010 17:55

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00000		
30-APR-2010 09:54	ch4	/chem/gc9.i/30Apr2010.b/9043002.d
Cal Level: 2 , Cal Amount: 0.00000		
30-APR-2010 10:17	HexHep	/chem/gc9.i/30Apr2010.b/9043003a.d
30-APR-2010 10:17	ngas	/chem/gc9.i/30Apr2010.b/9043003.d
Cal Level: 3 , Cal Amount: 0.00000		
30-APR-2010 10:42	HexHep	/chem/gc9.i/30Apr2010.b/9043004a.d
30-APR-2010 10:42	ngas	/chem/gc9.i/30Apr2010.b/9043004.d
Cal Level: 4 , Cal Amount: 0.00000		
30-APR-2010 11:13	HexHep	/chem/gc9.i/30Apr2010.b/9043005a.d
30-APR-2010 11:13	ngas	/chem/gc9.i/30Apr2010.b/9043005.d
Cal Level: 5 , Cal Amount: 0.00000		
30-APR-2010 11:37	HexHep	/chem/gc9.i/30Apr2010.b/9043006a.d
30-APR-2010 11:37	ngas	/chem/gc9.i/30Apr2010.b/9043006.d
Cal Level: 6 , Cal Amount: 0.00000		
30-APR-2010 17:55	isopentane	/chem/gc9.i/30Apr2010.b/9043015.d
30-APR-2010 15:55	Butane	/chem/gc9.i/30Apr2010.b/9043012.d
30-APR-2010 15:29	propane	/chem/gc9.i/30Apr2010.b/9043011.d
30-APR-2010 15:02	ehtene	/chem/gc9.i/30Apr2010.b/9043010.d
30-APR-2010 14:28	ehtane	/chem/gc9.i/30Apr2010.b/9043009.d
30-APR-2010 13:54	Pentane	/chem/gc9.i/30Apr2010.b/9043008.d

GC-9
FID-Curve

Report Date : 03-May-2010 11:58

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-APR-2010 09:54
End Cal Date : 30-APR-2010 17:55
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gc9.i/30Apr2010.b/910n0430.m
Cal Date : 03-May-2010 11:56 tstriepe
Curve Type : Average

5/3/10

Calibration File Names: See Calibration History
Level 1: /chem/gc9.i/30Apr2010.b/9043002.d
Level 2: /chem/gc9.i/30Apr2010.b/9043003a.d
Level 3: /chem/gc9.i/30Apr2010.b/9043004a.d
Level 4: /chem/gc9.i/30Apr2010.b/9043005a.d
Level 5: /chem/gc9.i/30Apr2010.b/9043006a.d
Level 6: /chem/gc9.i/30Apr2010.b/9043015.d

gw 5/3/10

Based on 1-0mL loop load - Second Sourcefile # 9043016

		0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00		
	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	2 Methane	202080000	153736294	155083221	164416716	152510874	+++++	165565421	12.651
	3 ethane	+++++	298674490	300191532	318558652	298734521	306748072	304581453	2.788
	4 ethene	+++++	294083838	295770942	314597500	294555688	295628733	298927340	2.940
	5 propane	+++++	444823000	453448907	481920337	452081585	478780558	462210877	3.660
	7 acetylene	+++++	359859596	367637600	394417525	372723723	+++++	373659611	3.965
	8 iso-butane	+++++	586741414	602800200	641421360	603314068	+++++	608569261	3.814
	10 n-butane	+++++	589788889	601382966	642135900	606050212	697960475	627463688	7.012
	15 neo-pentane	+++++	784290000	802413690	848947248	800882990	+++++	809133482	3.434
	16 isopentane	+++++	746938000	758502381	802097129	758571360	666396985	746501171	6.630
	17 pentane	+++++	752239000	764838889	810372376	768282568	769758534	773098274	2.839
	39 Hexane	+++++	901288000	913222709	972456653	920953817	+++++	926980295	3.385
	40 Heptane	+++++	1.028e+09	1.048e+09	1.148e+09	1.079e+09	+++++	1.076e+09	4.870
S	22 c6-c7	+++++	+++++	983751953	1.070e+09	1.010e+09	+++++	1.021e+09	4.327
M	37 C6+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	1.021e+09	+++++
S	36 c8+	+++++	+++++	+++++	+++++	+++++	+++++	1.021e+09	+++++

gw 5/3/10

Compound	Level1(%)	Level 2(%)	Level 3(%)	Level 4(%)	Level 5(%)	Level 6(%)
Methane	0.00010	0.01970	0.09935	0.9950	9.950	NA
Ethane	NA	0.00098	0.00496	0.0497	0.497	24.975
Ethene	NA	0.00099	0.00499	0.0500	0.500	24.875
Propane	NA	0.00100	0.00503	0.0504	0.504	19.900
Acetylene	NA	0.00099	0.00500	0.0501	0.501	NA
iso-Btuane	NA	0.00099	0.00499	0.0500	0.500	NA
n-Butane	NA	0.00099	0.00499	0.0500	0.500	9.990
neo-Pentane	NA	0.00100	0.00504	0.0505	0.505	NA
iso-Pentane	NA	0.00100	0.00504	0.0505	0.505	4.950
n-Pentane	NA	0.00100	0.00504	0.0505	0.505	9.990
Hexane	NA	0.00050	0.00251	0.0251	0.251	NA
C6-C7	NA	NA	0.00512	0.0512	0.512	NA

@Air Toxics Ltd. GC-9 **Logbook #: 1969**

Method: ASTM 1945/1946 **Leak Test :** cyl

0062 of 0229

	USE	File #	Sample Name/Client ID	Can #	Pressure	Amt	DF	Date	Time	Review Init.	Comments
1	✓	9043001	System Blank	14014	NA	1.0 mL	1.00	4/30/10	0918	cyl	
2	✓	02	1830-35	34368					0954		Level 1
3	✓	03	-34	13671					1017		2
4	✓	04	-33	4267					1042		3
5	✓	05	1544-365 B Ngas	34219		(10:100) 1.0 mL			1113		4
6	✓	06	↓	|	↓	1.0 mL			1137		5
7	X	07	843-2965	NA	CH4 99.0%	(25:50) 1.0 mL			1234		Not used, Bad STD
8	✓	08	1476-910		Pentane 99.9%	(10:100) 1.0 mL			1354		Level 6
9	✓	09	1476-438		Ethane 99.9%	(12.5:50) 1.0 mL			1428	↓	6
10	✓	10	1476-437		~~Propane~~ Ethane 99.5%	↓			1502	cyl	6
11	✓	11	843-471		Propane 99.5%	(10:50) 1.0 mL			1529		6
12	✓	12	1476-897		Butane 99.9%	(5:50) 1.0 mL			1555		6
13	X	13	843-2965		Methane 99%	(25:50) 1.0 mL			1646		Not used, Bad STD
14	X	14	843-2965		↓	1.0 mL			1719		↓
15	✓	15	1476-898	↓	Isopentane 99%	(5:100) 1.0 mL	↓	↓	1755	↓	Level-6

Calculation Check: File ID: 9043006C Compound: Propane Initials: gmw

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}}$ × Dilution Factor = $\frac{(\ 2278\,49119\ )}{(\ 46221087\ )}$ × (1.00) = 0.493 ✓

Reported Result: 0.493 ✓

gmw
Signed

5/3/10
Date

@Air Toxics Ltd. GC-9 **Logbook #: 1969**

Method: ASTM 1945/1946 **Leak Test :** gd

	USE	File #	Sample Name/Client ID	Can #	Pressure	Amt	DF	Date	Time	Review Init.	Comments
1	✓	90430 16	1476 - 1477 N_{gas}	NA	NA	1.0 ml	1.00	4/30/10	1826	gd	LCS
2	✓	17	1476 - 977 H_2	↓					1916		CCV
3	✓	18	N_2 Lab Blank	33868					1942		
4	✓	19	He Lab Blank	14014					2004		
5	✓	20	100 4650 -01A	Bag	11 00406 203 DIV then OX				2028		↑ Isobutane
6	X	21	-01A	↓	↓				2054		carryover
7	X	22	He System Blank	14014	NA				2116		
8	✓	23	↓	14014	↓	↓			2141		
9	✓	24	100 4650 - 01B	Bag	11 00406 203 DIV then OX	5.50 1.0 ml	10.0		2203		Isobutane only
10	✓	25	He System Blank	14014 4/30/10	NA	1.0 ml			2227		
11	✓	26	100 4650 -02A	Bag	11 00406 423 DIV then OX				2256		↑ Isobutane
12	✓	27	He System Blank	14014	NA	↓			2318		
13	✓	28	100 4650 - 02B	Bag	11 00406 423 DIV Then OX	(10.60) 1.0 ml	60.0	↓	2341	↓	Isobutane only
14	✓	29	100 4634 B -01AA		# Residence south outdoor	1.0 ml		5/01/10	0005	lg	
15	✓	30	-01A		↓	↓	↓	↓	0734	↓	

Calculation Check: File ID: 90430116C Compound: Pentane Initials: gm

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}}$ × Dilution Factor = $\frac{(384483557)}{(768282569)}$ × (1.00) = **0.500 %**

Reported Result: **0.500 %**

gm 5/3/10

Signed Date

Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043016.d
Lab Smp Id: 1476-1477 Client Smp ID: LCS
Inj Date : 30-APR-2010 18:26
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,
Misc Info : LCS
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 12:03 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 11:37 Cal File: 9043006a.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
	2 Methane	3.537	3.536	0.001	1535970513	9.27712	9.28
	3 ethane	3.688	3.688	0.000	151041695	0.49590	0.496
	4 ethene	3.833	3.833	0.000	149589597	0.50042	0.500
	5 propane	4.267	4.267	0.000	225369165	0.48759	0.488
	7 acetylene	5.789	5.792	-0.003	194864021	0.52150	0.522(A)
	8 iso-butane	6.049	6.049	0.000	302158117	0.49651	0.496
	10 n-butane	6.342	6.342	0.000	296019102	0.47177	0.472
	15 neo-pentane	8.310	8.309	0.001	406364666	0.50222	0.502
	16 isopentane	8.755	8.754	0.001	383359393	0.51354	0.514
	17 pentane	8.983	8.981	0.002	384483557	0.49733	0.497
M	37 C6+ Hydrocarbons				524049634	0.51322	0.513
S	22 c6-c7	9.250-17.250			522490758	0.51169	0.512
S	36 c8+	0.700-3.000			1558876	0.00153	0.00153

QC Flag Legend

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

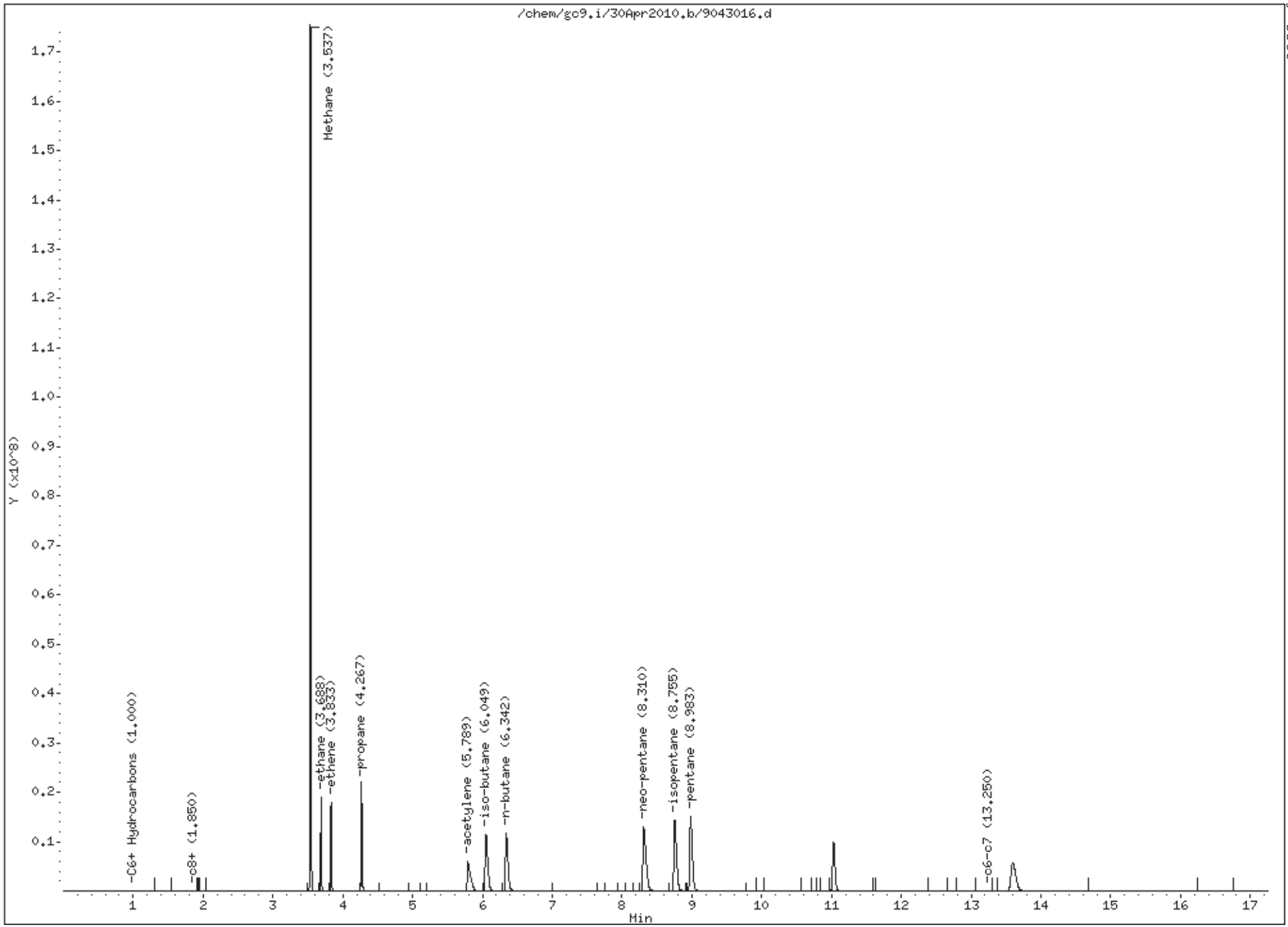
Report Date: 03-May-2010 12:04

Air Toxics Ltd.

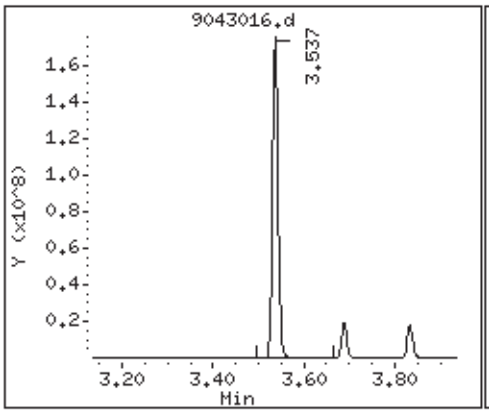
RECOVERY REPORT

Client Name: Client SDG: 30Apr2010
Sample Matrix: GAS Fraction: Atm Gas
Lab Smp Id: 1476-1477 Client Smp ID: LCS
Level: LOW Operator: gd
Data Type: GC DATA SampleType: LCS
SpikeList File: 1476-1477.spk Quant Type: ESTD
Sublist File: ngas.sub
Method File: /chem/gc9.i/30Apr2010.b/910n0430.m
Misc Info: LCS

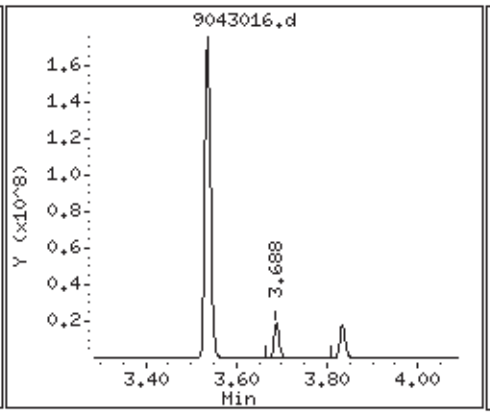
SPIKE COMPOUND	CONC ADDED %	CONC RECOVERED %	% RECOVERED	LIMITS
2 Methane	9.99	9.28	92.86	85-115
3 ethane	0.498	0.496	99.58	85-115
4 ethene	0.500	0.500	100.08	85-115
5 propane	0.499	0.488	97.71	85-115
7 acetylene	0.500	0.522	104.30	85-115
8 iso-butane	0.500	0.496	99.30	85-115
10 n-butane	0.498	0.472	94.73	85-115
15 neo-pentane	0.510	0.502	98.47	85-115
16 isopentane	0.505	0.514	101.69	85-115
17 pentane	0.503	0.497	98.87	85-115
M 37 C6+ Hydrocarbons	0.516	0.513	99.46	85-115


/chem/gc9.i/30Apr2010.b/9043016.d
Y (x10^8)
Min
Methane (3.537)
-C6+ Hydrocarbons (1.000)
-c8+ (1.850)
-ethane (3.688)
-ethene (3.833)
-propane (4.267)
-acetylene (5.789)
-iso-butane (6.049)
-n-butane (6.342)
-neo-pentane (8.310)
-isopentane (8.755)
-pentane (8.983)
-c6-c7 (13.250)

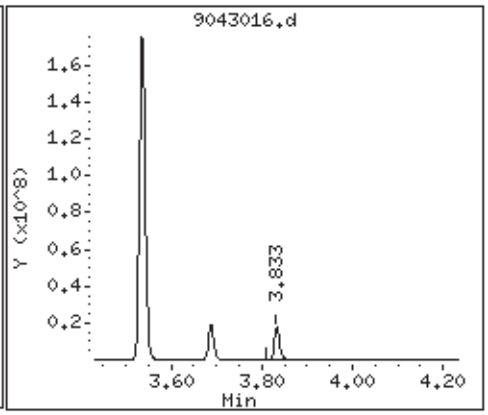
2 Methane



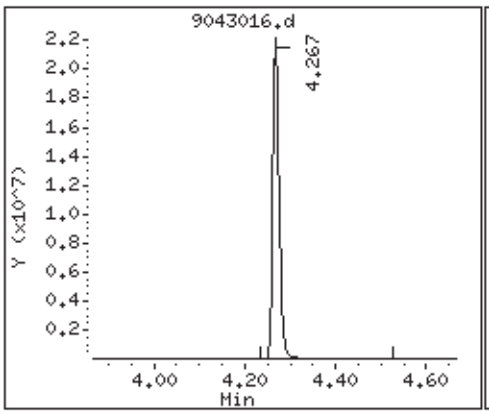
3 ethane



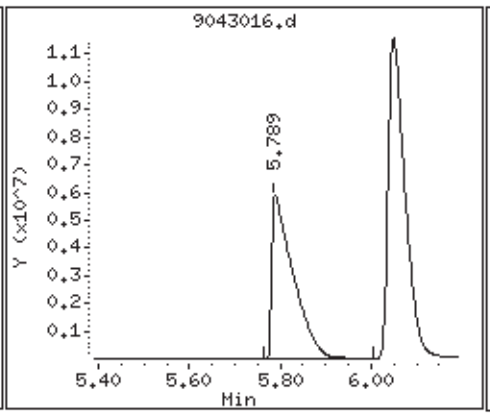
4 ethene



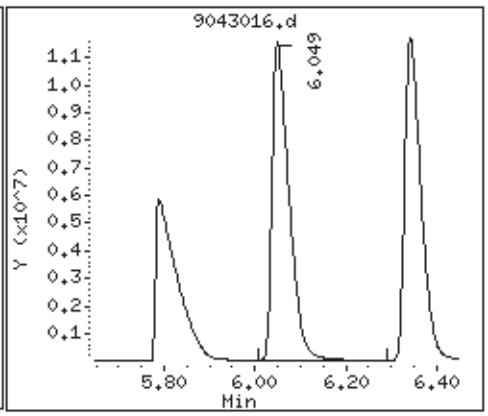
5 propane



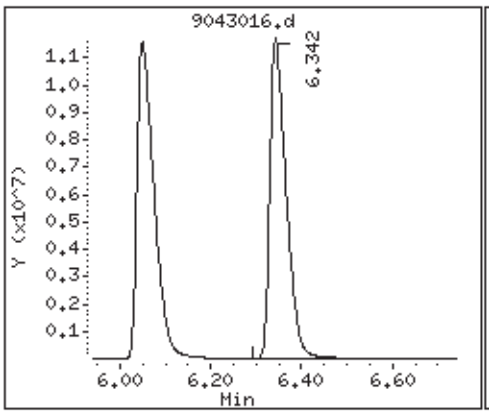
7 acetylene



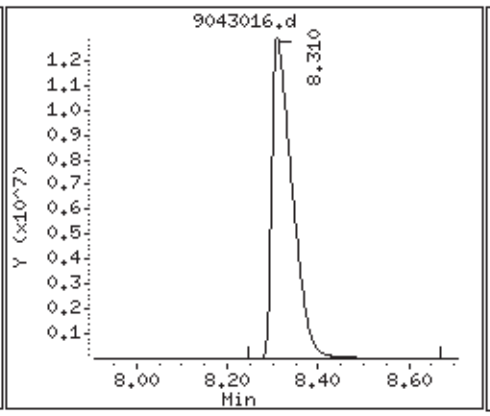
8 iso-butane



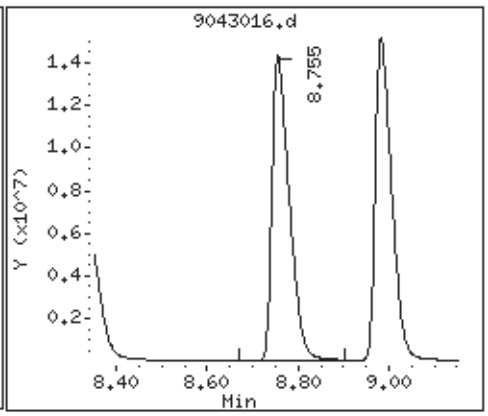
10 n-butane



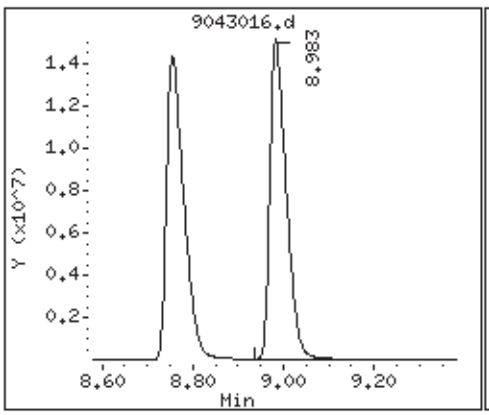
15 neo-pentane



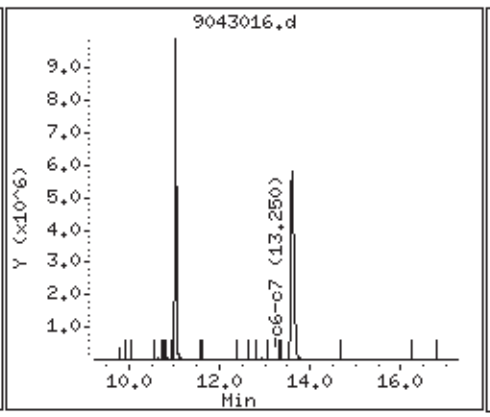
16 isopentane



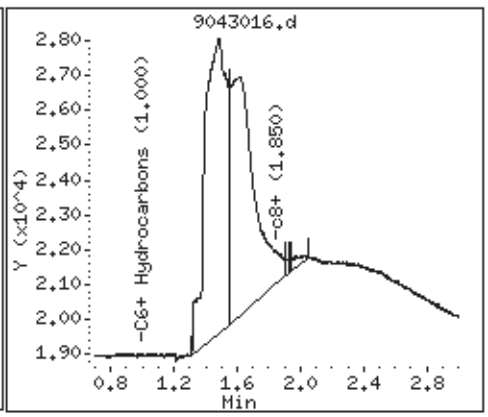
17 pentane



S 22 c6-c7



S 36 c8+



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043016a.d
Lab Smp Id: 1476-1477 Client Smp ID: LCS
Inj Date : 30-APR-2010 18:26
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL,
Misc Info : LCS
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 12:06 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 11:37 Cal File: 9043006a.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: HexHep.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
39 Hexane	11.029	11.098	-0.069	236087796	0.25468	0.255(A)
40 Heptane	13.598	13.593	0.005	282444526	0.26247	0.262(A)

QC Flag Legend

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

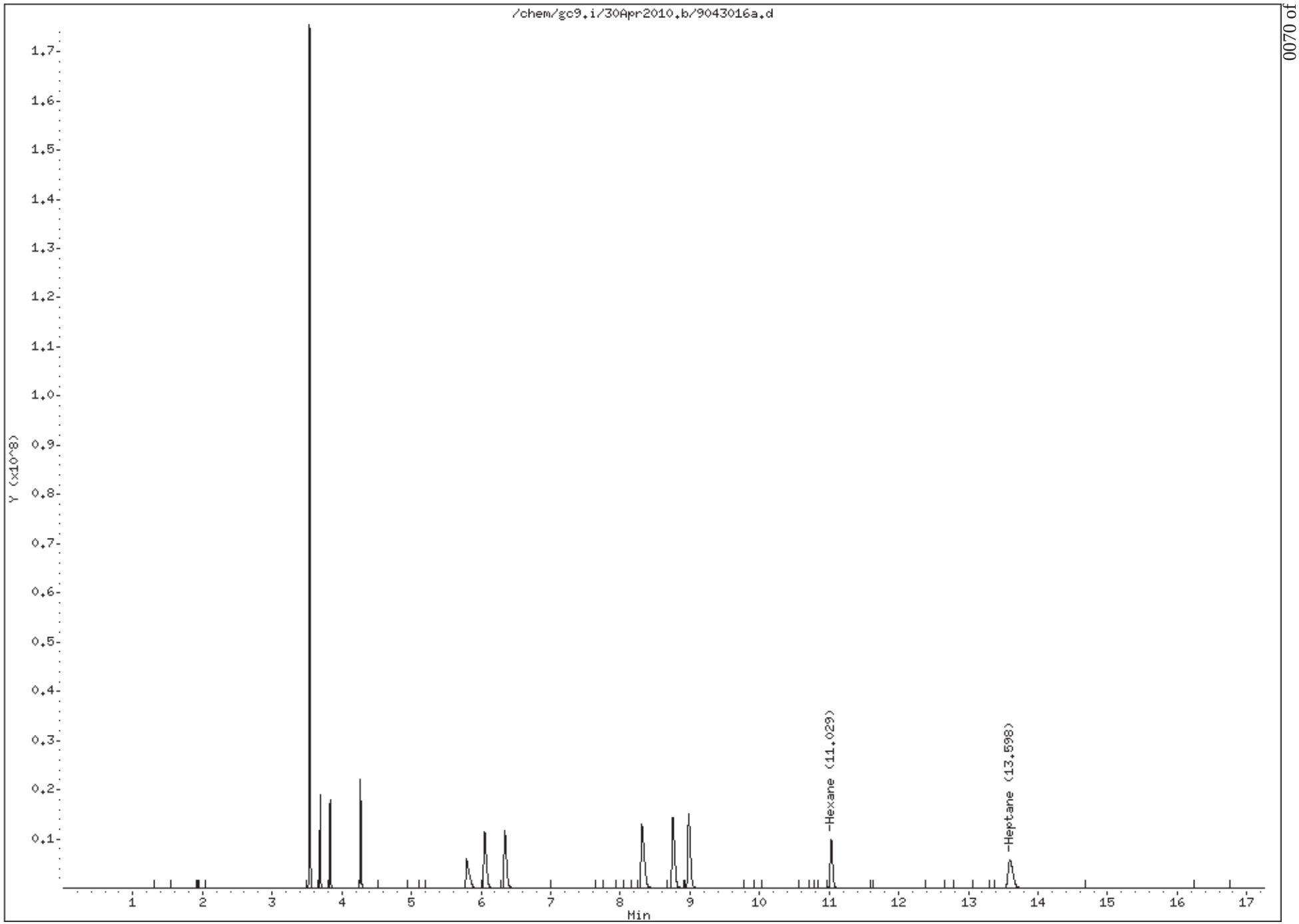
Report Date: 03-May-2010 12:06

Air Toxics Ltd.

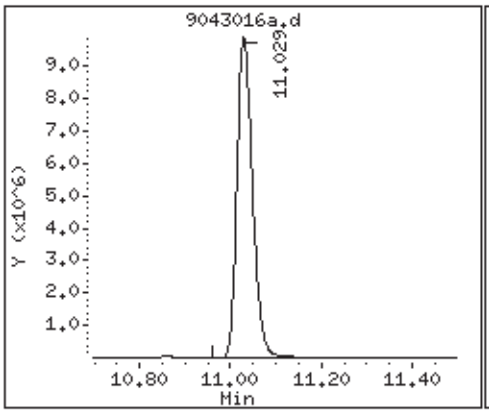
RECOVERY REPORT

Client Name: Client SDG: 30Apr2010
Sample Matrix: GAS Fraction: Atm Gas
Lab Smp Id: 1476-1477 Client Smp ID: LCS
Level: LOW Operator: gd
Data Type: GC DATA SampleType: LCS
SpikeList File: HexHep.spk Quant Type: ESTD
Sublist File: HexHep.sub
Method File: /chem/gc9.i/30Apr2010.b/910n0430.m
Misc Info: LCS

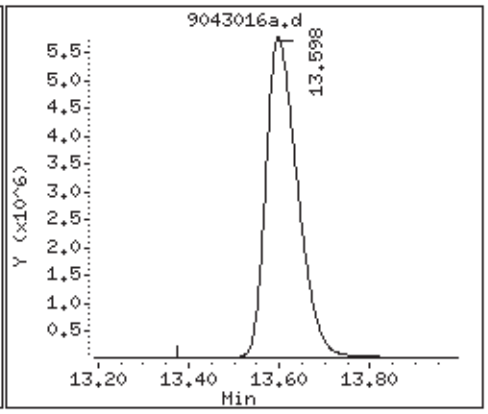
SPIKE COMPOUND	CONC ADDED %	CONC RECOVERED %	% RECOVERED	LIMITS
39 Hexane	0.257	0.255	99.10	85-115
40 Heptane	0.259	0.262	101.34	85-115


/chem/gc9.i/30Apr2010.b/9043016a.d
Y (x10^8)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min
-Hexane (11.029)
-Heptane (13.598)

39 Hexane



40 Heptane



Air Toxics Ltd.

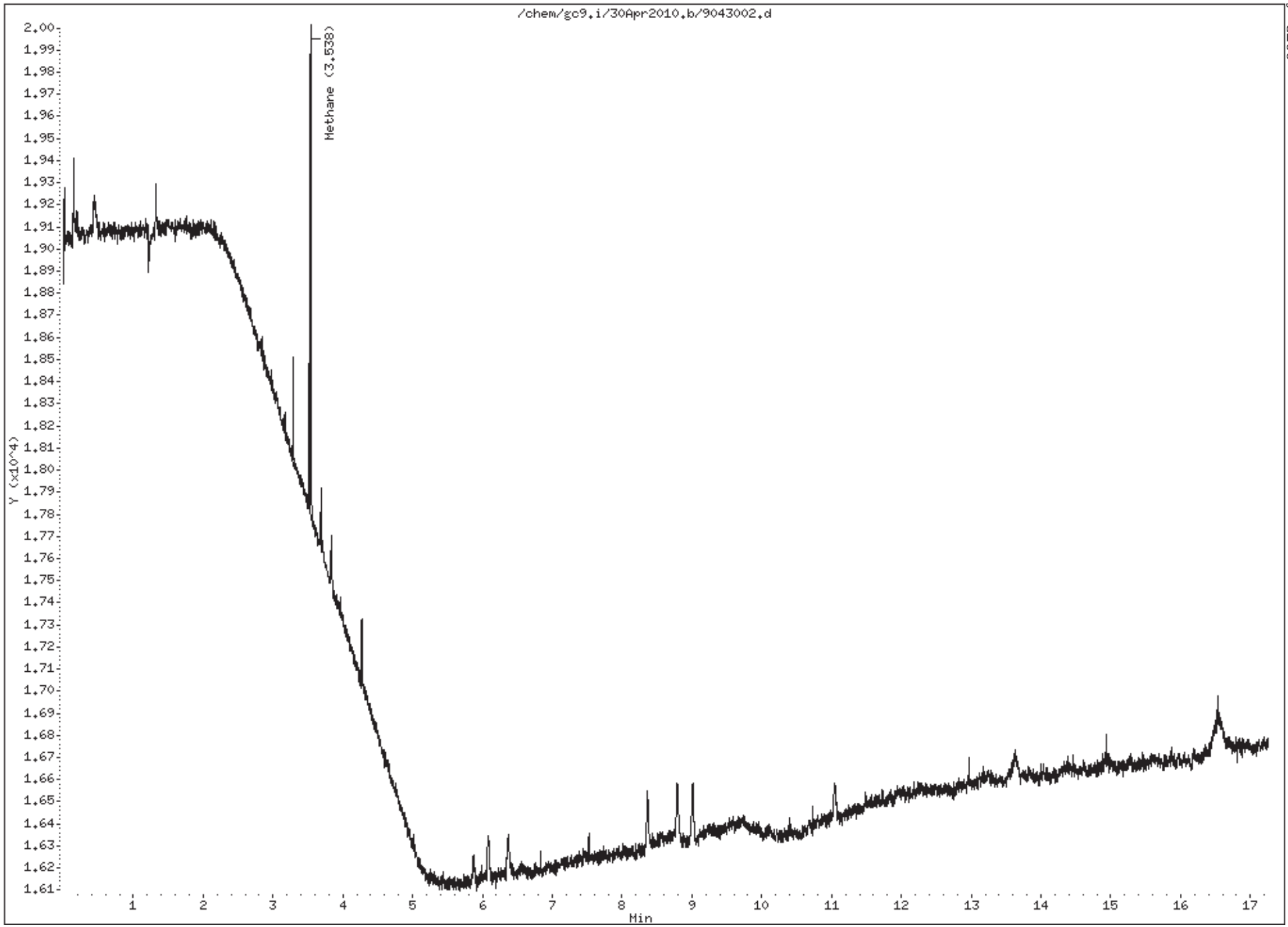
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043002.d
Lab Smp Id: 1830-35 Client Smp ID: Level-1:
Inj Date : 30-APR-2010 09:54
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,34368
Misc Info : CH4
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 09:54 Cal File: 9043002.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ch4.sub
Target Version: 3.50
Processing Host: eeyore

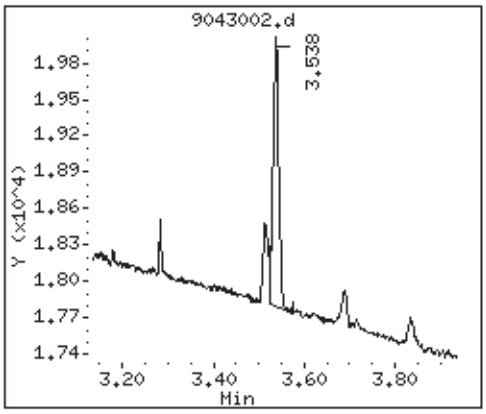
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
2 Methane	3.538	3.536	0.002	20208	0.00010	0.000100


/chem/gc9.i/30Apr2010.b/9043002.d
Methane (3.538)
Y (x10^4)
2.00
1.99
1.98
1.97
1.96
1.95
1.94
1.93
1.92
1.91
1.90
1.89
1.88
1.87
1.86
1.85
1.84
1.83
1.82
1.81
1.80
1.79
1.78
1.77
1.76
1.75
1.74
1.73
1.72
1.71
1.70
1.69
1.68
1.67
1.66
1.65
1.64
1.63
1.62
1.61
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

2 Methane


9043002.d
3.538
1.98
1.95
1.92
1.89
1.86
1.83
1.80
1.77
1.74
Y (x10^4)
3.20
3.40
3.60
3.80
Min

Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043003a.d
Lab Smp Id: 1830-34 Client Smp ID: Level-2:
Inj Date : 30-APR-2010 10:17
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,13671
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:43 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 10:17 Cal File: 9043003a.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: HexHep.sub
Target Version: 3.50
Processing Host: eeyore

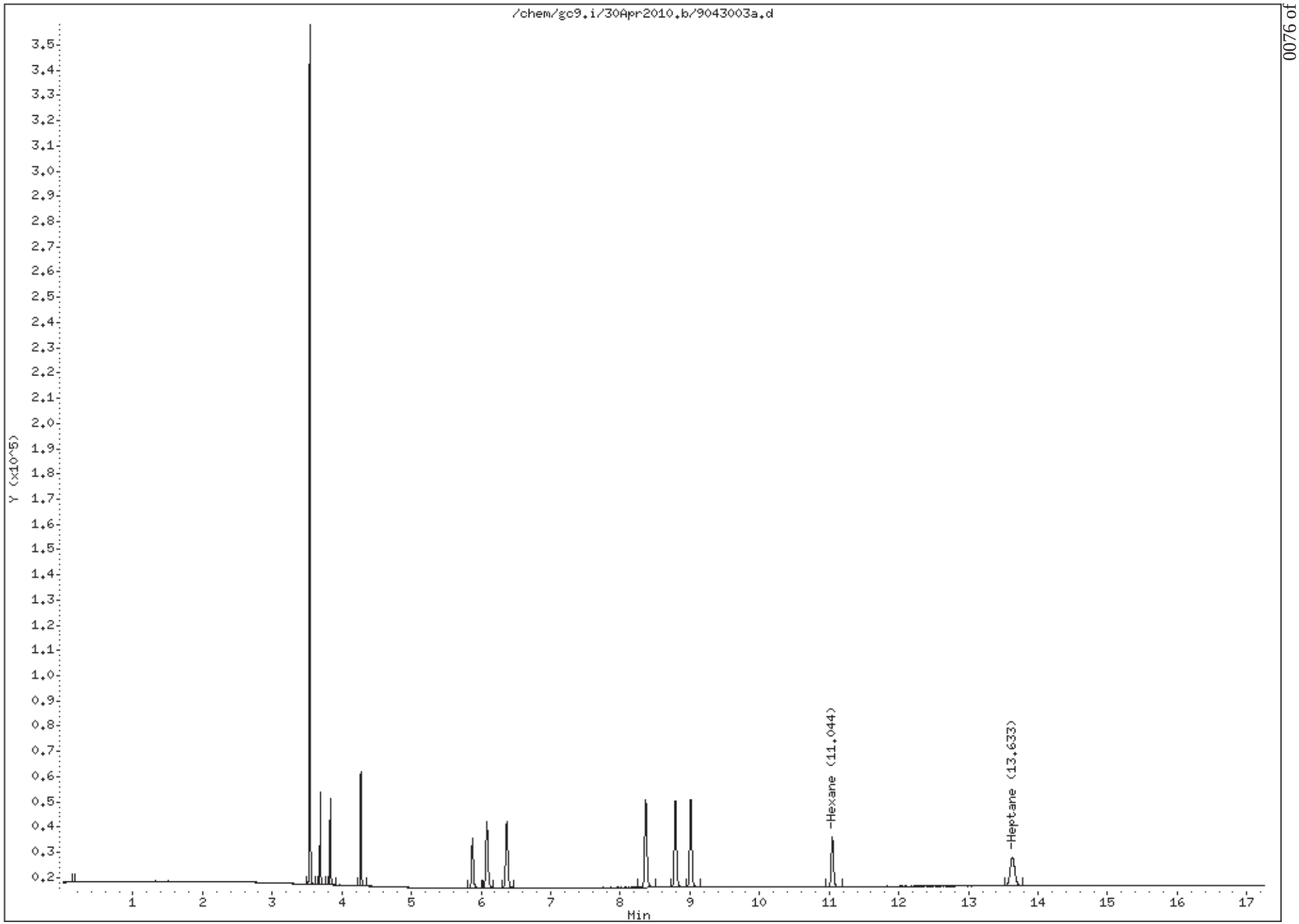
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

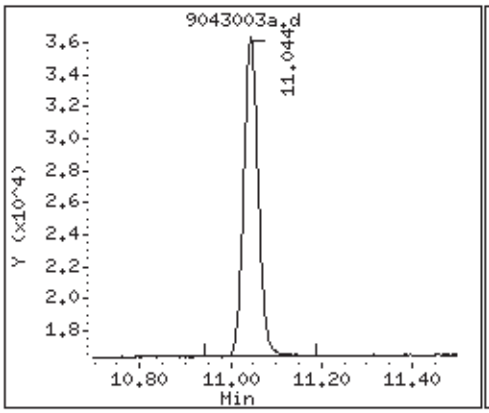
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
39 Hexane	11.044	11.098	-0.054	450644	0.00050	0.000486(a)
40 Heptane	13.633	13.593	0.040	534811	0.00052	0.000497(a)

QC Flag Legend

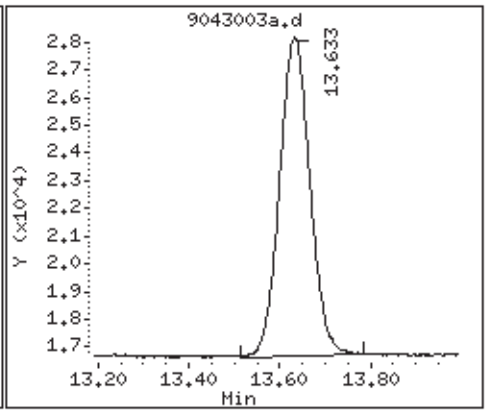
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


/chem/gc9.i/30Apr2010.b/9043003a.d
Y (x10^5)
Min
-Hexane (11.044)
-Heptane (13.633)

39 Hexane



40 Heptane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043003.d
Lab Smp Id: 1830-34 Client Smp ID: Level-2:
Inj Date : 30-APR-2010 10:17
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,13671
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 10:17 Cal File: 9043003.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

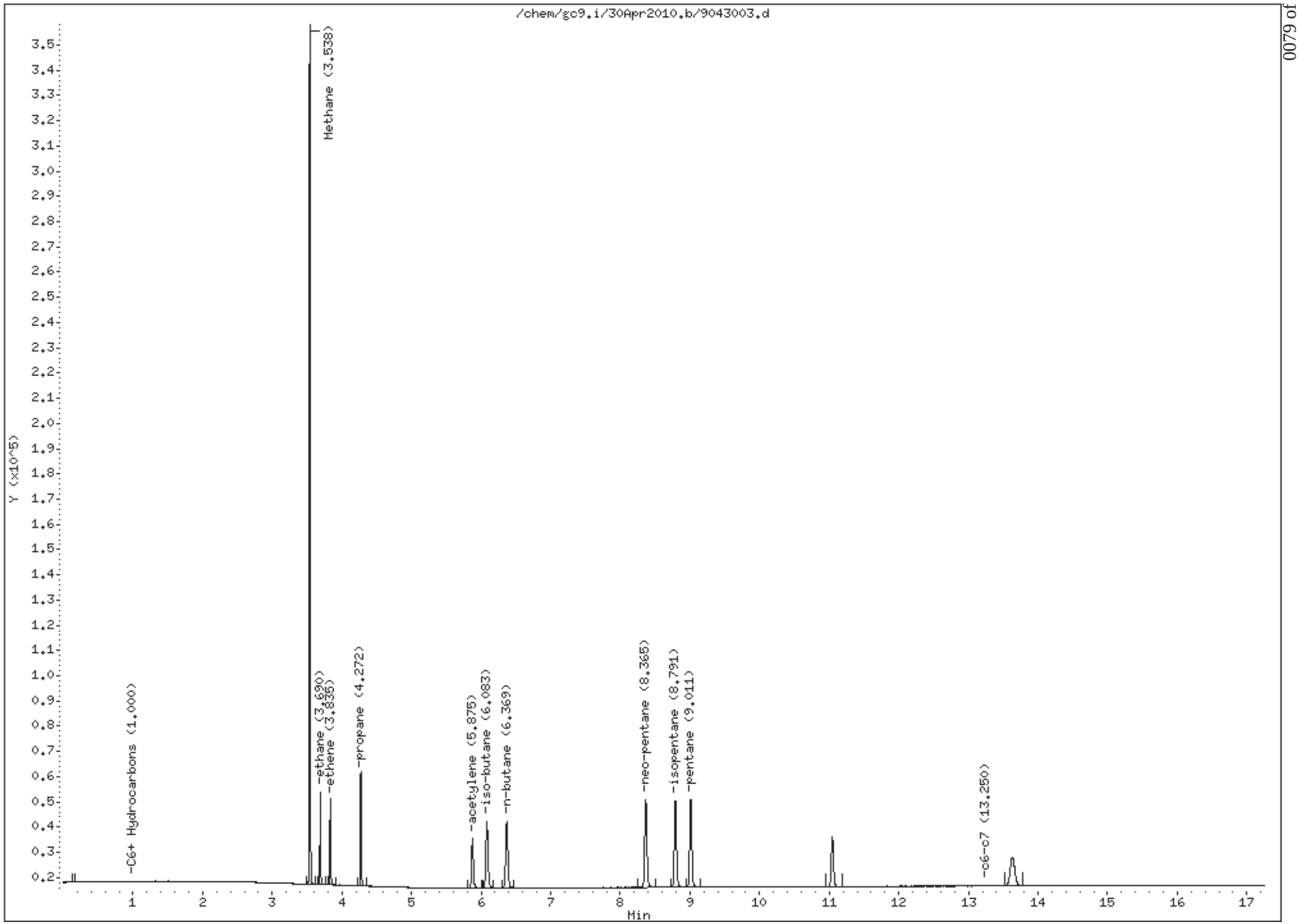
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

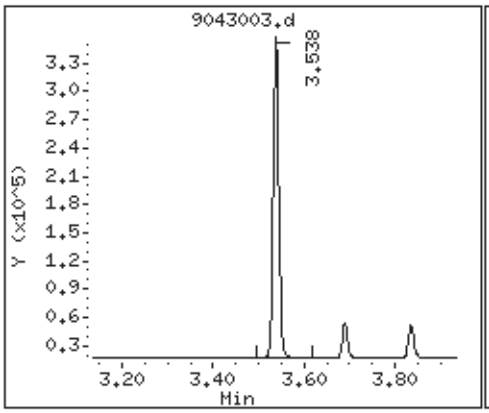
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
2 Methane	3.538	3.536	0.002	3028605	0.01970	0.0170
3 ethane	3.690	3.688	0.002	292701	0.00098	0.000980(a)
4 ethene	3.835	3.833	0.002	291143	0.00099	0.000990(a)
5 propane	4.272	4.267	0.005	444823	0.00100	0.00100
7 acetylene	5.875	5.792	0.083	356261	0.00099	0.000990(a)
8 iso-butane	6.083	6.049	0.034	580874	0.00099	0.000990(a)
10 n-butane	6.369	6.342	0.027	583891	0.00099	0.000990(a)
15 neo-pentane	8.365	8.309	0.056	784290	0.00100	0.00100
16 isopentane	8.791	8.754	0.037	746938	0.00100	0.00100
17 pentane	9.011	8.981	0.030	752239	0.00100	0.00100
S 36 c8+	Compound Not Detected.					

QC Flag Legend

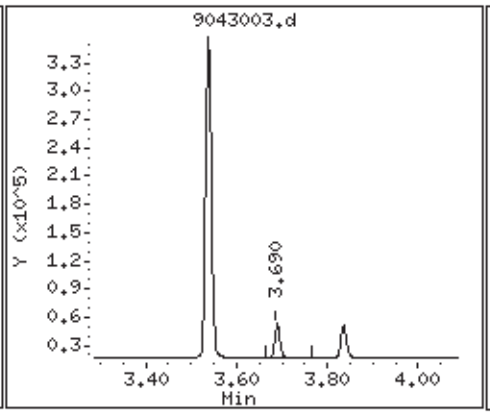
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


/chem/gc9.i/30Apr2010.b/9043003.d
Y (x10^5)
Min
-C6+ Hydrocarbons (1.000)
-ethane (3.690)
-etheme (3.835)
Methane (3.538)
-propane (4.272)
-acetylene (5.875)
-iso-butane (6.083)
-n-butane (6.369)
-neo-pentane (8.365)
-isopentane (8.791)
-pentane (9.011)
-c6-c7 (13.250)

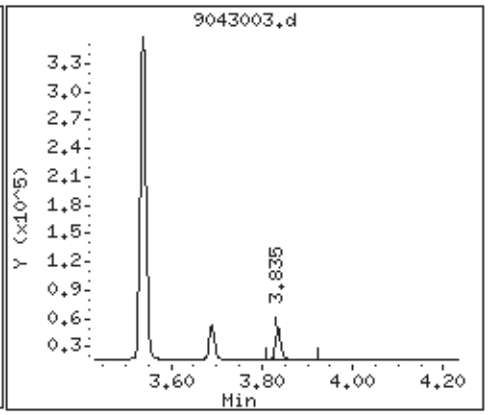
2 Methane



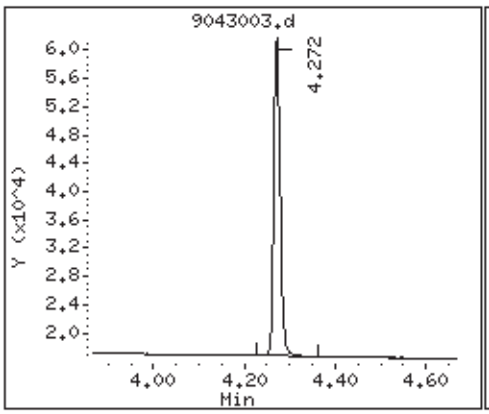
3 ethane



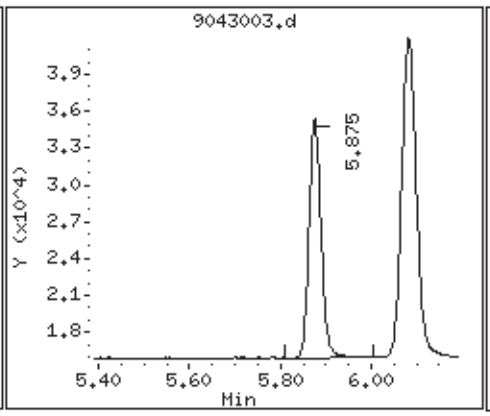
4 ethene



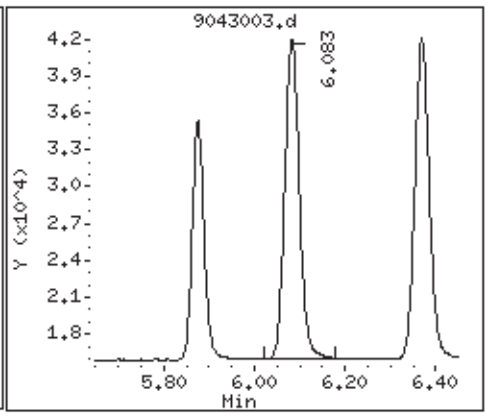
5 propane



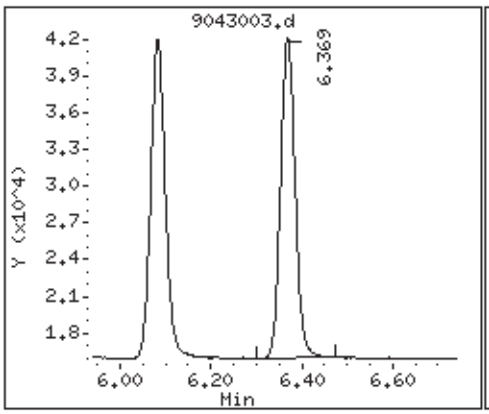
7 acetylene



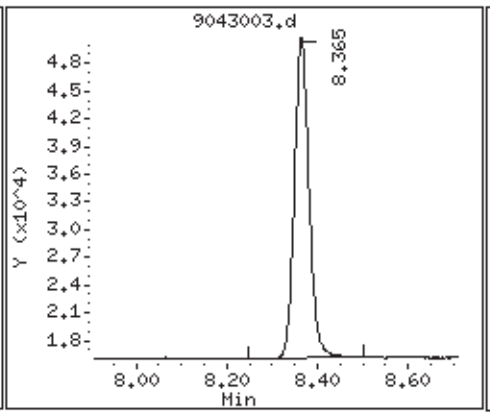
8 iso-butane



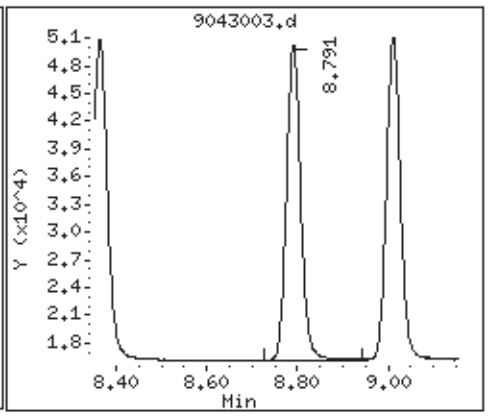
10 n-butane



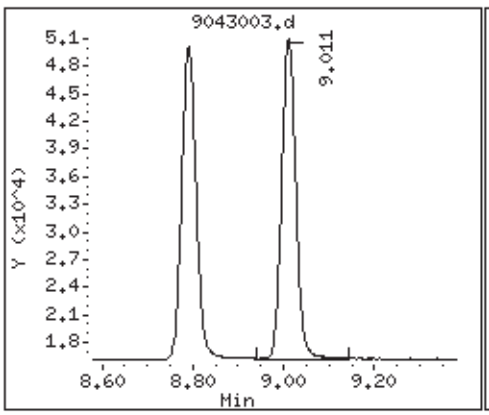
15 neo-pentane



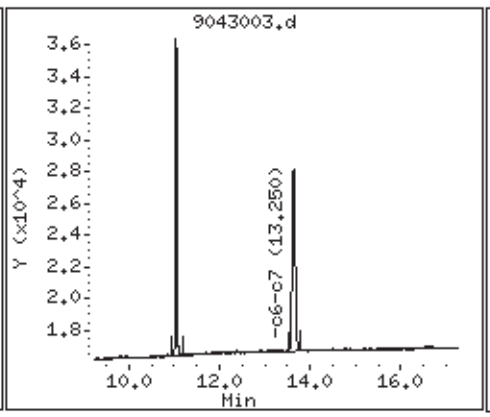
16 isopentane



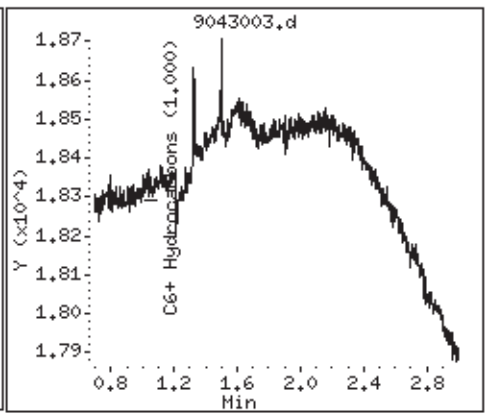
17 pentane



S 22 c6-c7



S 36 c8+ (Undetected)



Air Toxics Ltd.

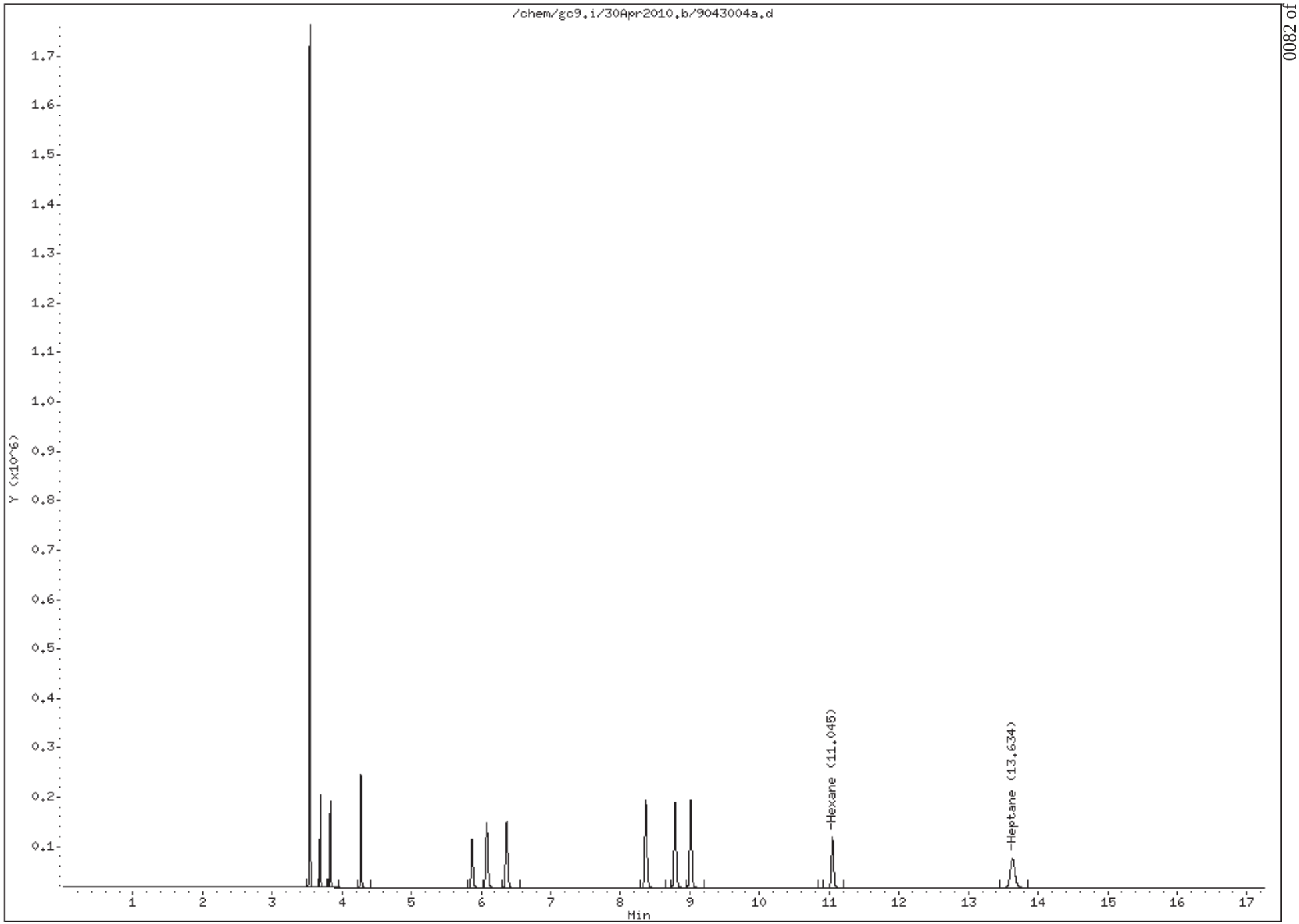
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043004a.d
Lab Smp Id: 1830-33 Client Smp ID: Level-3:
Inj Date : 30-APR-2010 10:42
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,4267
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:43 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 10:42 Cal File: 9043004a.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: HexHep.sub
Target Version: 3.50
Processing Host: eeyore

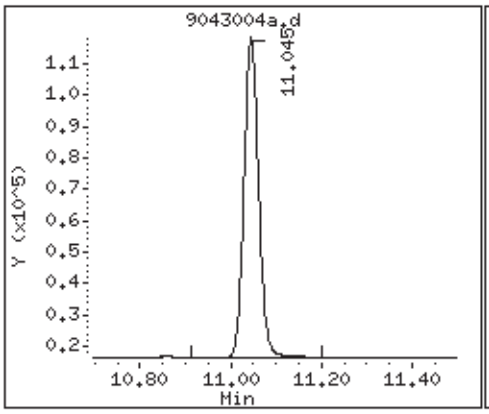
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

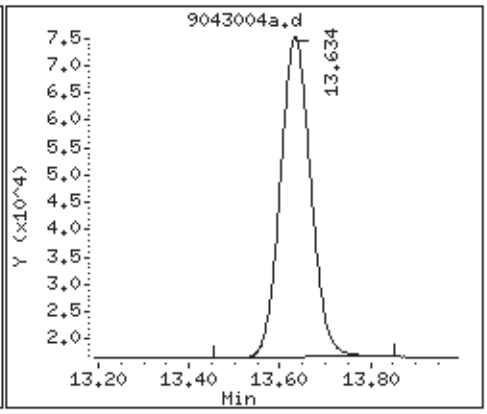
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
39 Hexane	11.045	11.098	-0.053	2292189	0.00251	0.00247
40 Heptane	13.634	13.593	0.041	2735957	0.00261	0.00254


/chem/gc9.i/30Apr2010.b/9043004a.d
Y (x10^6)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min
-Hexane (11.045)
-Heptane (13.634)

39 Hexane



40 Heptane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043004.d
Lab Smp Id: 1830-33 Client Smp ID: Level-3:
Inj Date : 30-APR-2010 10:42
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,4267
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 10:42 Cal File: 9043004.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

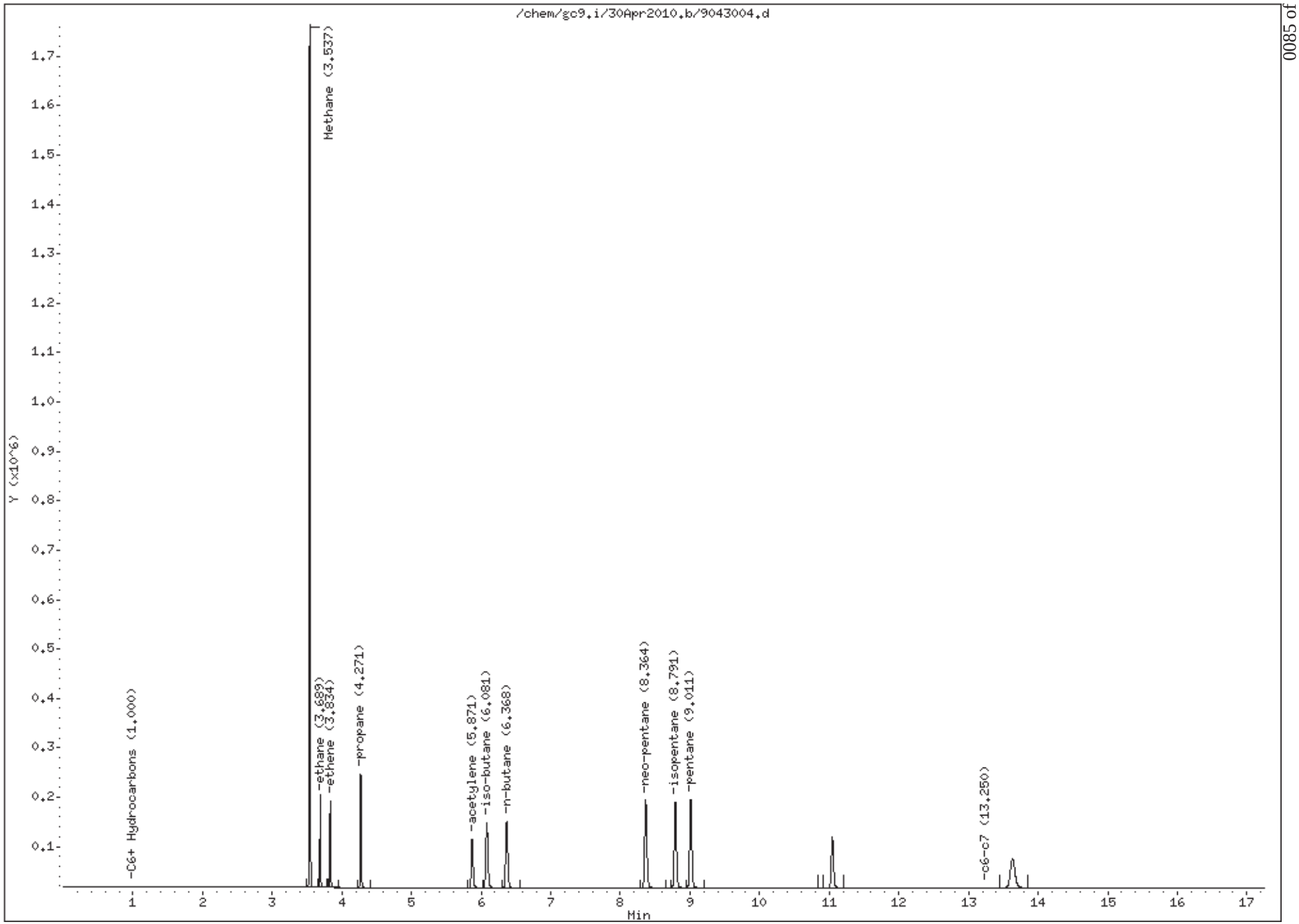
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

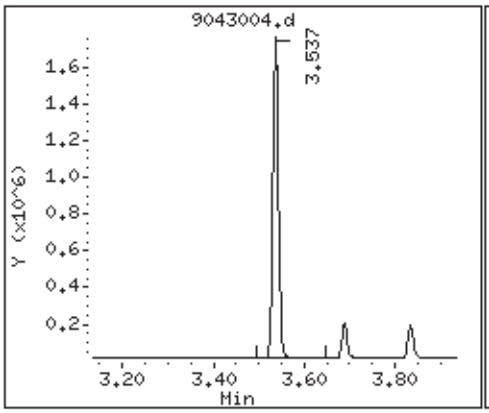
	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (%)	AMOUNTS ON-COL (%)
	2 Methane	3.537	3.536	0.001	15407518	0.09935	0.0905
	3 ethane	3.689	3.688	0.001	1488950	0.00496	0.00497
	4 ethene	3.834	3.833	0.001	1475897	0.00499	0.00500
	5 propane	4.271	4.267	0.004	2280848	0.00503	0.00508
	7 acetylene	5.871	5.792	0.079	1838188	0.00500	0.00505
	8 iso-butane	6.081	6.049	0.032	3007973	0.00499	0.00506
	10 n-butane	6.368	6.342	0.026	3000901	0.00499	0.00504
	15 neo-pentane	8.364	8.309	0.055	4044165	0.00504	0.00510
	16 isopentane	8.791	8.754	0.037	3822852	0.00504	0.00508
	17 pentane	9.011	8.981	0.030	3854788	0.00504	0.00508
M	37 C6+ Hydrocarbons				5036810	0.00507	0.00512(a)
S	22 c6-c7	9.250-17.250			5036810	0.00512	0.00512
S	36 c8+	Compound Not Detected.					

QC Flag Legend

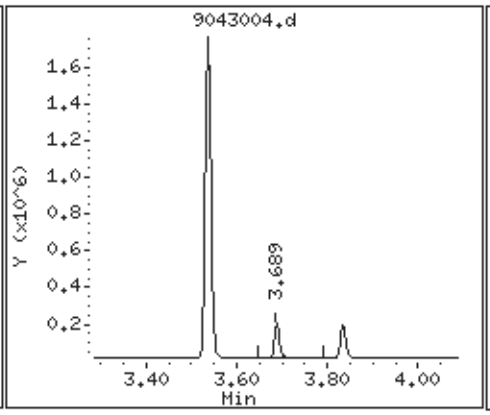
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


/chem/gc9.i/30Apr2010.b/9043004.d
Y (x10^6)
Min
-C6+ Hydrocarbons (1.000)
-ethane (3.689)
-ethene (3.834)
Methane (3.537)
-propane (4.271)
-acetylene (5.871)
-iso-butane (6.081)
-n-butane (6.368)
-neo-pentane (8.364)
-isopentane (8.791)
-pentane (9.011)
-c6-c7 (13.250)

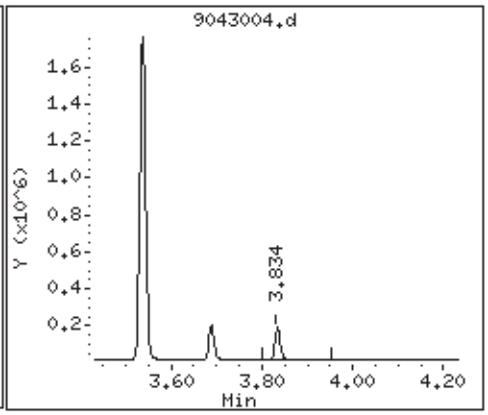
2 Methane



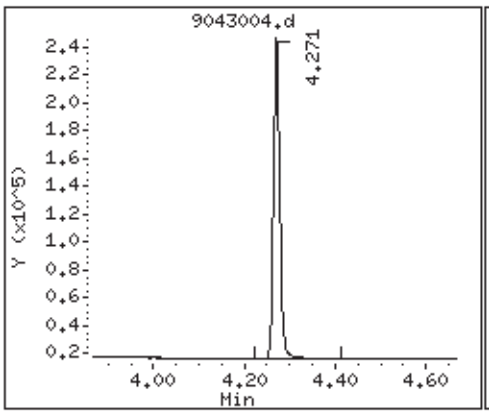
3 ethane



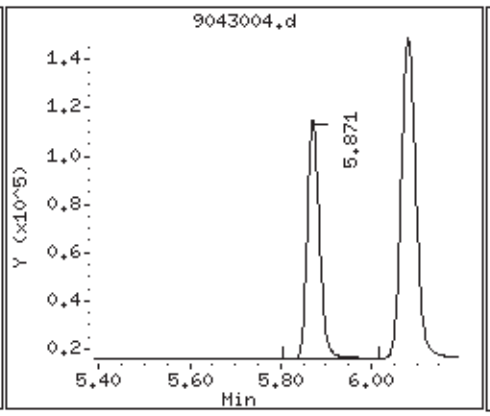
4 ethene



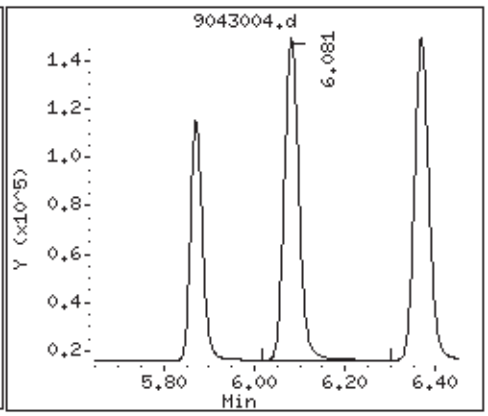
5 propane



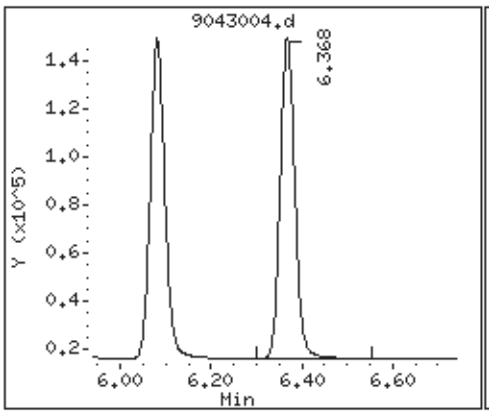
7 acetylene



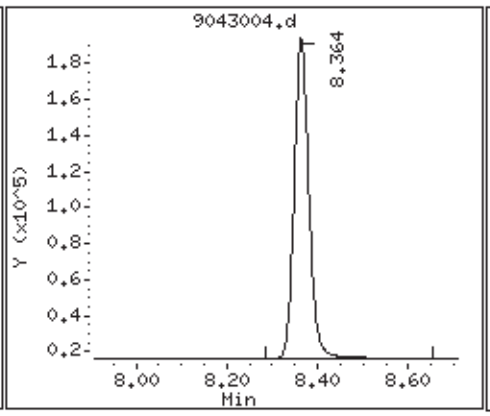
8 iso-butane



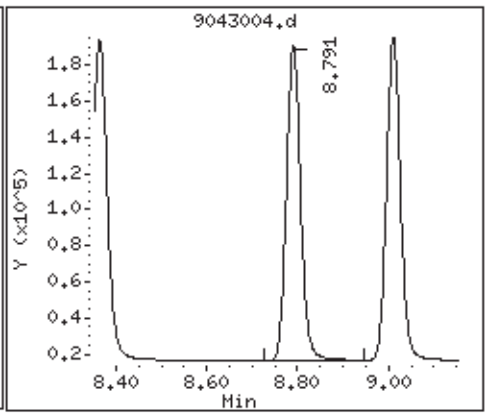
10 n-butane



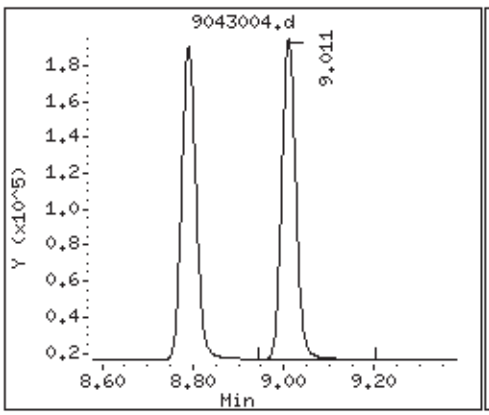
15 neo-pentane



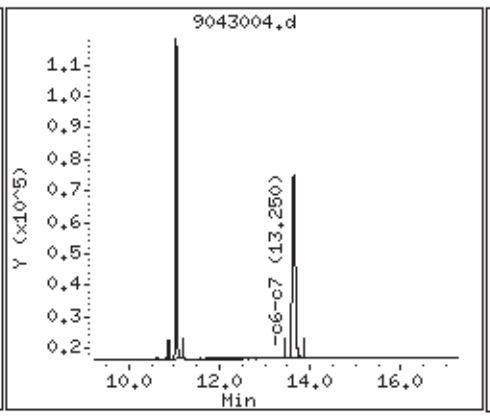
16 isopentane



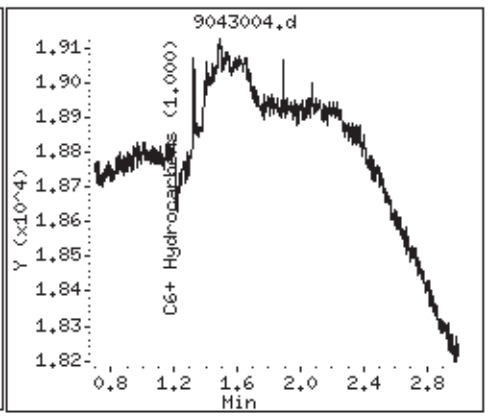
17 pentane



S 22 c6-c7



S 36 c8+ (Undetected)



Air Toxics Ltd.

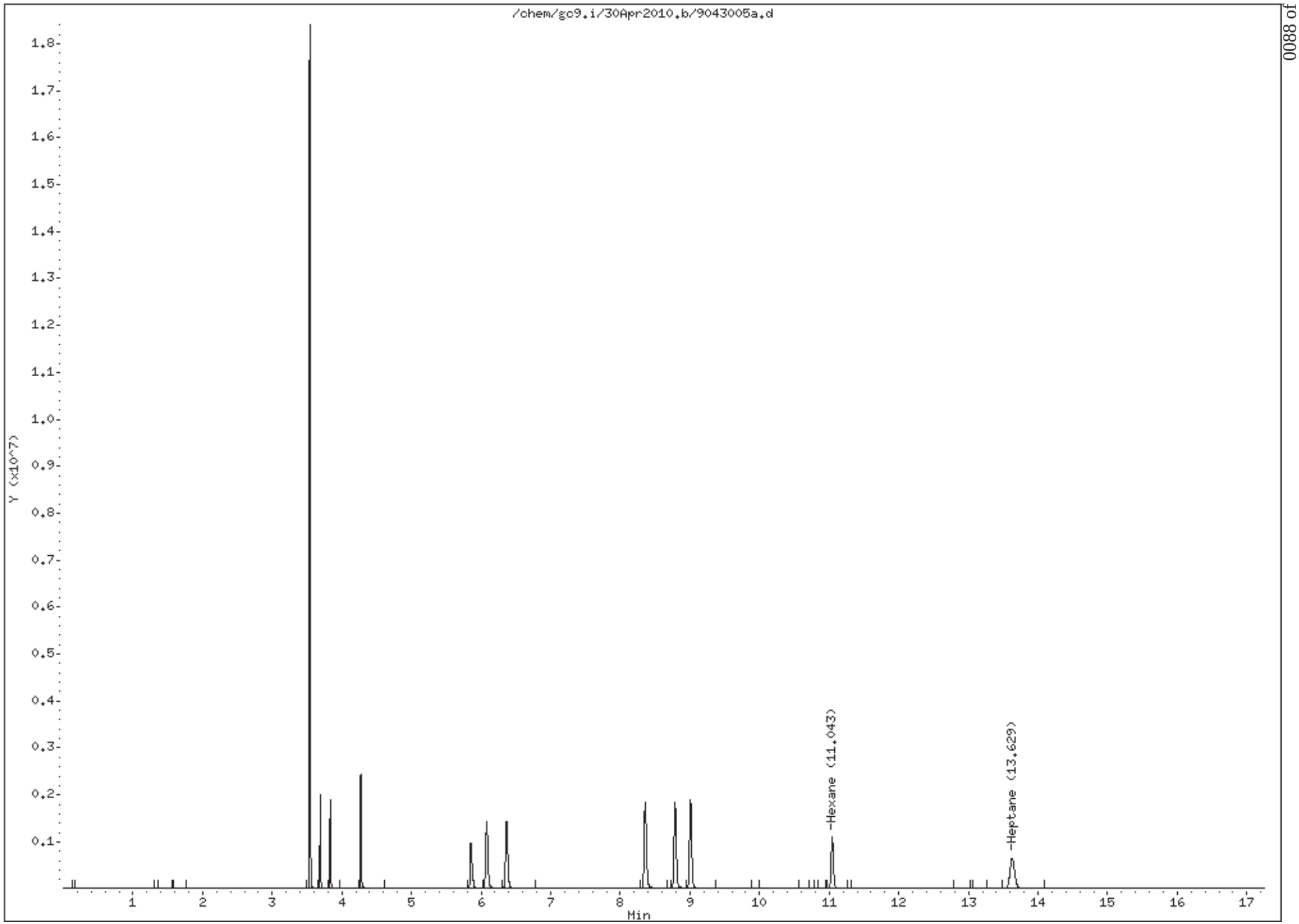
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043005a.d
Lab Smp Id: 1544-365B Client Smp ID: Level-4:
Inj Date : 30-APR-2010 11:13
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,34219
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:43 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 11:13 Cal File: 9043005a.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: HexHep.sub
Target Version: 3.50
Processing Host: eeyore

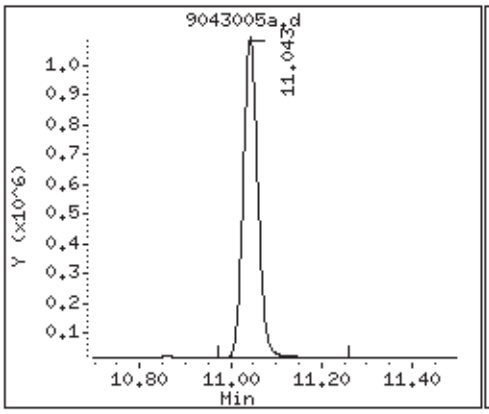
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

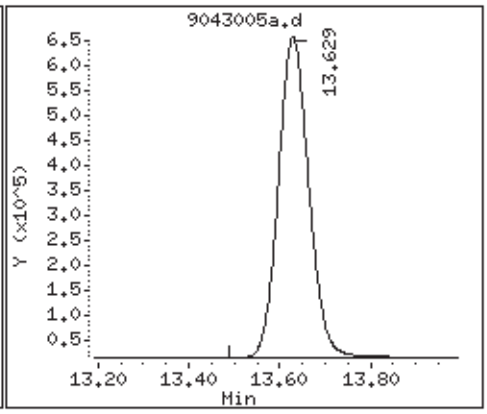
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
39 Hexane	11.043	11.098	-0.055	24408662	0.02510	0.0263
40 Heptane	13.629	13.593	0.036	29965543	0.02610	0.0278


/chem/gc9.i/30Apr2010.b/9043005a.d
Y (x10^7)
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min
-Hexane (11.043)
-Heptane (13.629)

39 Hexane



40 Heptane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043005.d
Lab Smp Id: 1544-365B Client Smp ID: Level-4:
Inj Date : 30-APR-2010 11:13
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,34219
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 11:13 Cal File: 9043005.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

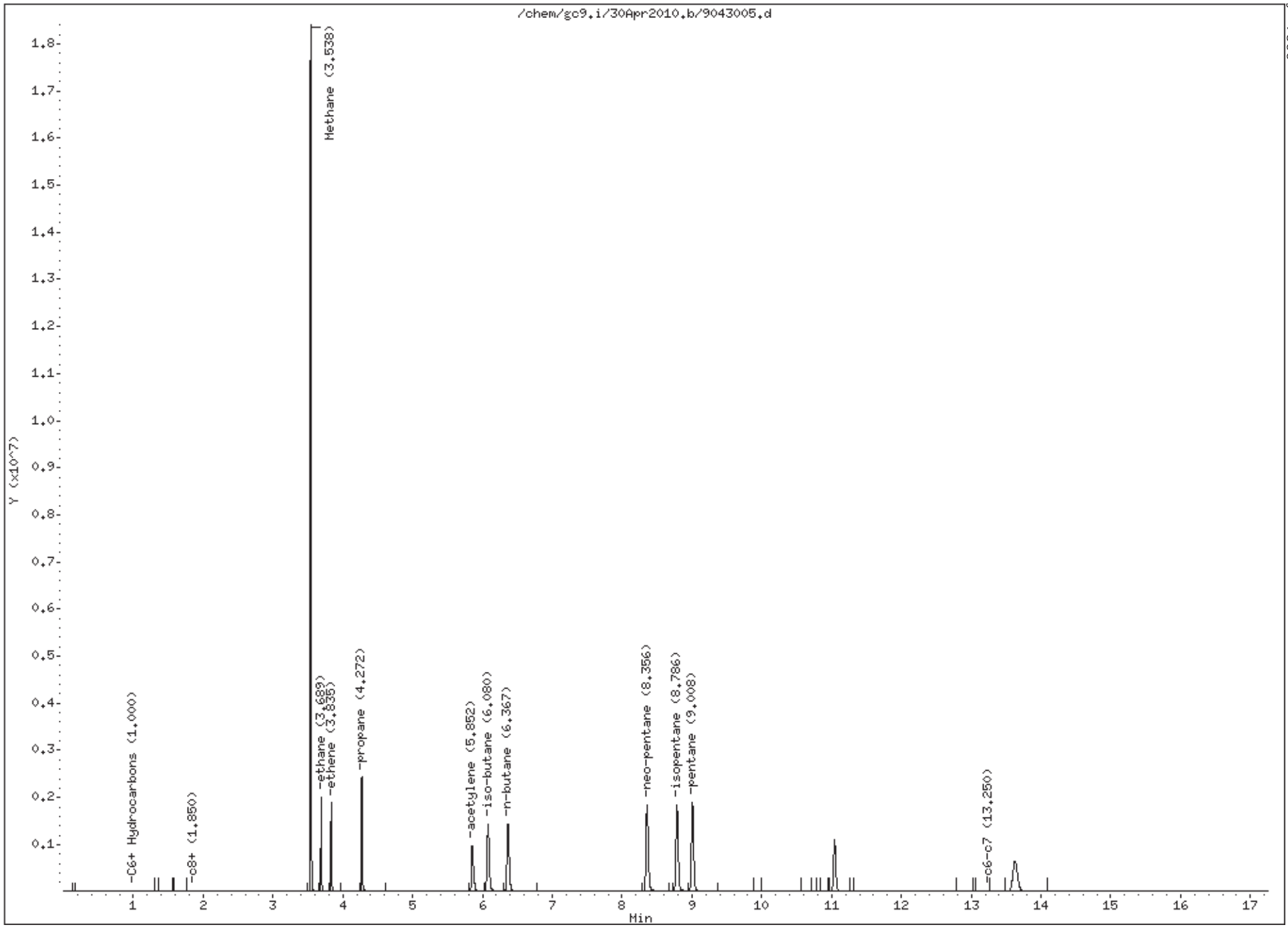
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

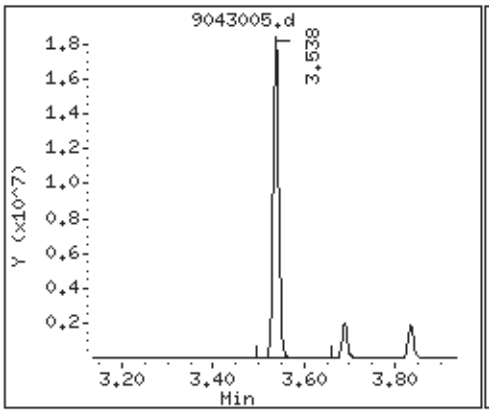
						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
	2 Methane	3.538	3.536	0.002	163594632	0.99500	0.969
	3 ethane	3.689	3.688	0.001	15832365	0.04970	0.0518
	4 ethene	3.835	3.833	0.002	15729875	0.05000	0.0522
	5 propane	4.272	4.267	0.005	24288785	0.05040	0.0528
	7 acetylene	5.852	5.792	0.060	19760318	0.05010	0.0528
	8 iso-butane	6.080	6.049	0.031	32071068	0.05000	0.0525
	10 n-butane	6.367	6.342	0.025	32106795	0.05000	0.0525
	15 neo-pentane	8.356	8.309	0.047	42871836	0.05050	0.0528
	16 isopentane	8.786	8.754	0.032	40505905	0.05050	0.0527
	17 pentane	9.008	8.981	0.027	40923805	0.05050	0.0527
M	37 C6+ Hydrocarbons				55003418	0.50700	0.0533
S	22 c6-c7	9.250-17.250			54778043	0.05120	0.0533
S	36 c8+	0.700-3.000			225375	0.02000	(a)

QC Flag Legend

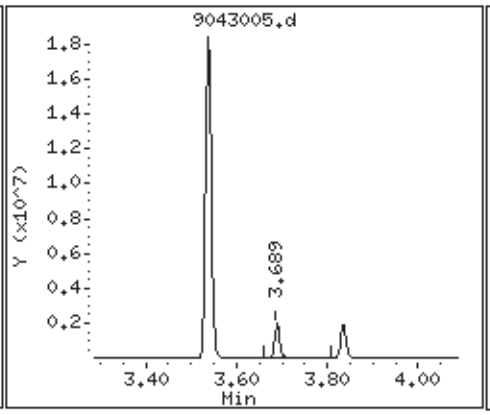
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


/chem/gc9.i/30Apr2010.b/9043005.d
Y (x10^7)
Min
Methane (3.538)
-C6+ Hydrocarbons (1.000)
-c8+ (1.850)
-ethane (3.689)
-etheme (3.835)
-propane (4.272)
-acetylene (5.852)
-iso-butane (6.080)
-n-butane (6.367)
-neo-pentane (8.356)
-isopentane (8.786)
-pentane (9.008)
-c6-c7 (13.250)

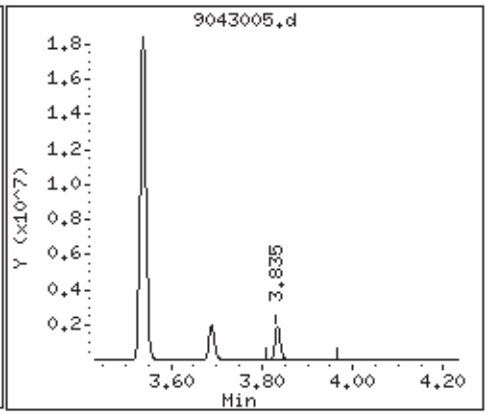
2 Methane



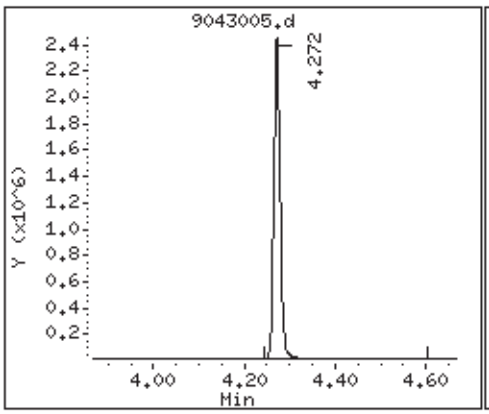
3 ethane



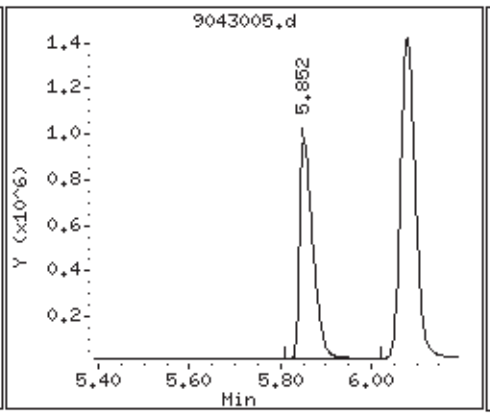
4 ethene



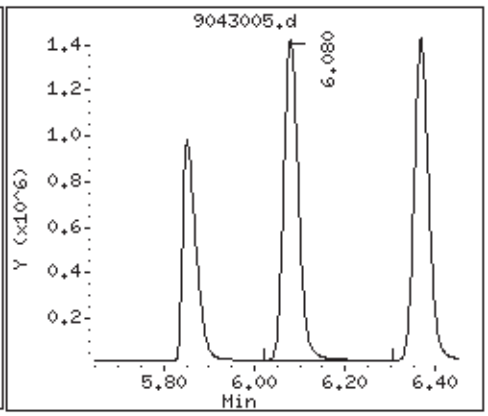
5 propane



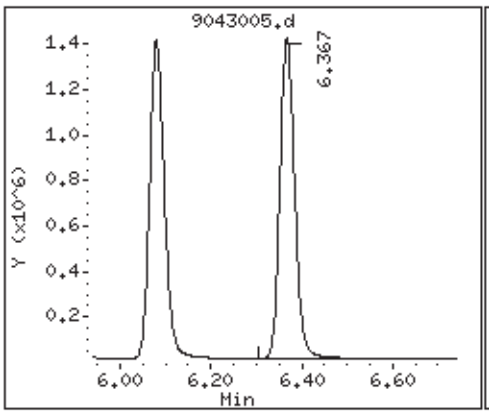
7 acetylene



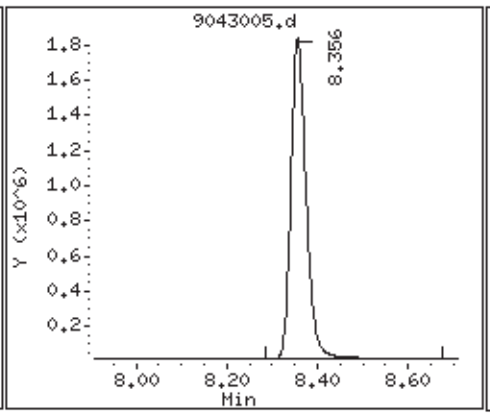
8 iso-butane



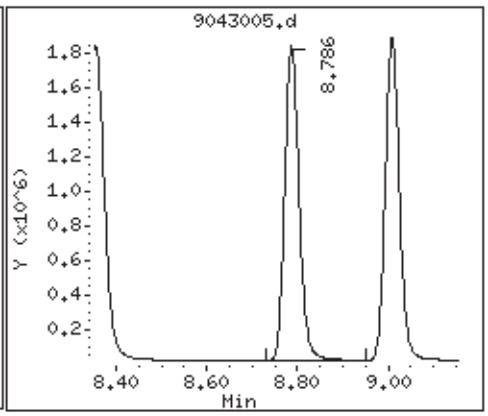
10 n-butane



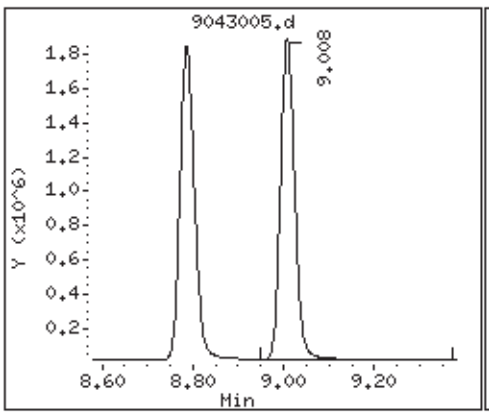
15 neo-pentane



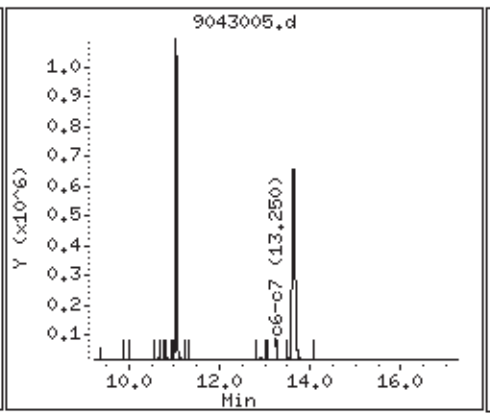
16 isopentane



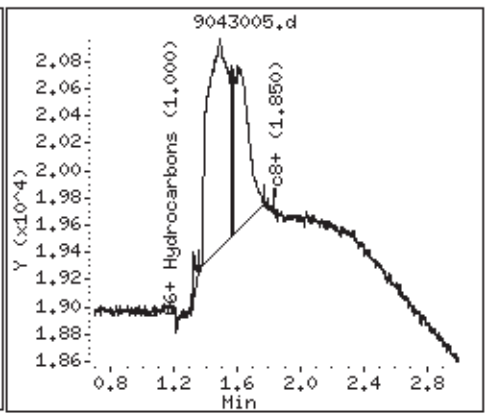
17 pentane



S 22 c6-c7



S 36 c8+



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043006a.d
Lab Smp Id: 1544-365B Client Smp ID: Level-5:
Inj Date : 30-APR-2010 11:37
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,34219
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:43 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 11:37 Cal File: 9043006a.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: HexHep.sub
Target Version: 3.50
Processing Host: eeyore

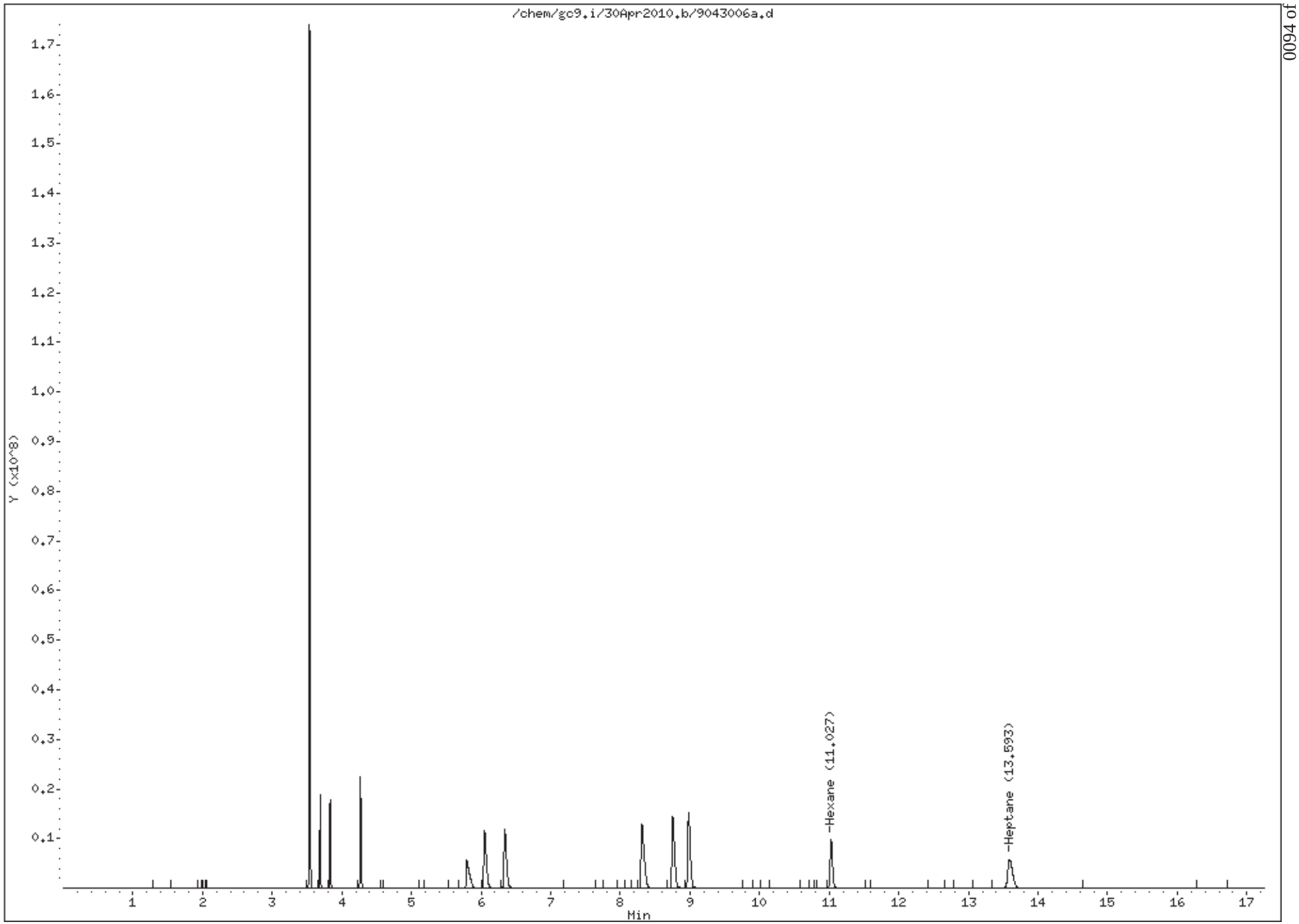
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

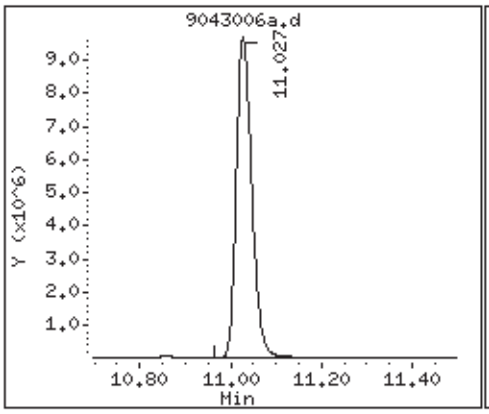
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
39 Hexane	11.027	11.098	-0.071	231159408	0.25100	0.249
40 Heptane	13.593	13.593	0.000	281747777	0.26100	0.262(A)

QC Flag Legend

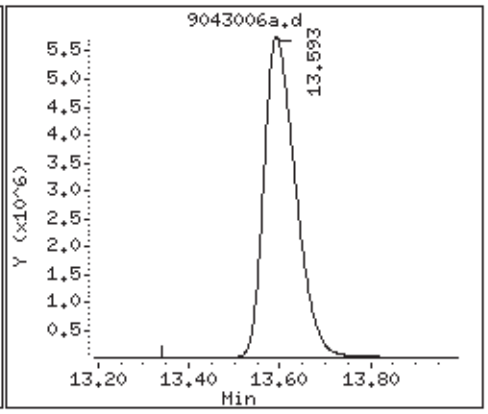
A - Target compound detected but, quantitated amount exceeded maximum amount.


/chem/gc9.i/30Apr2010.b/9043006a.d
Y (x10^8)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min
-Hexane (11.027)
-Heptane (13.593)

39 Hexane



40 Heptane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043006.d
Lab Smp Id: 1544-365B Client Smp ID: Level-5:
Inj Date : 30-APR-2010 11:37
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,34219
Misc Info : C1-C6
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 11:37 Cal File: 9043006.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ngas.sub
Target Version: 3.50
Processing Host: eeyore

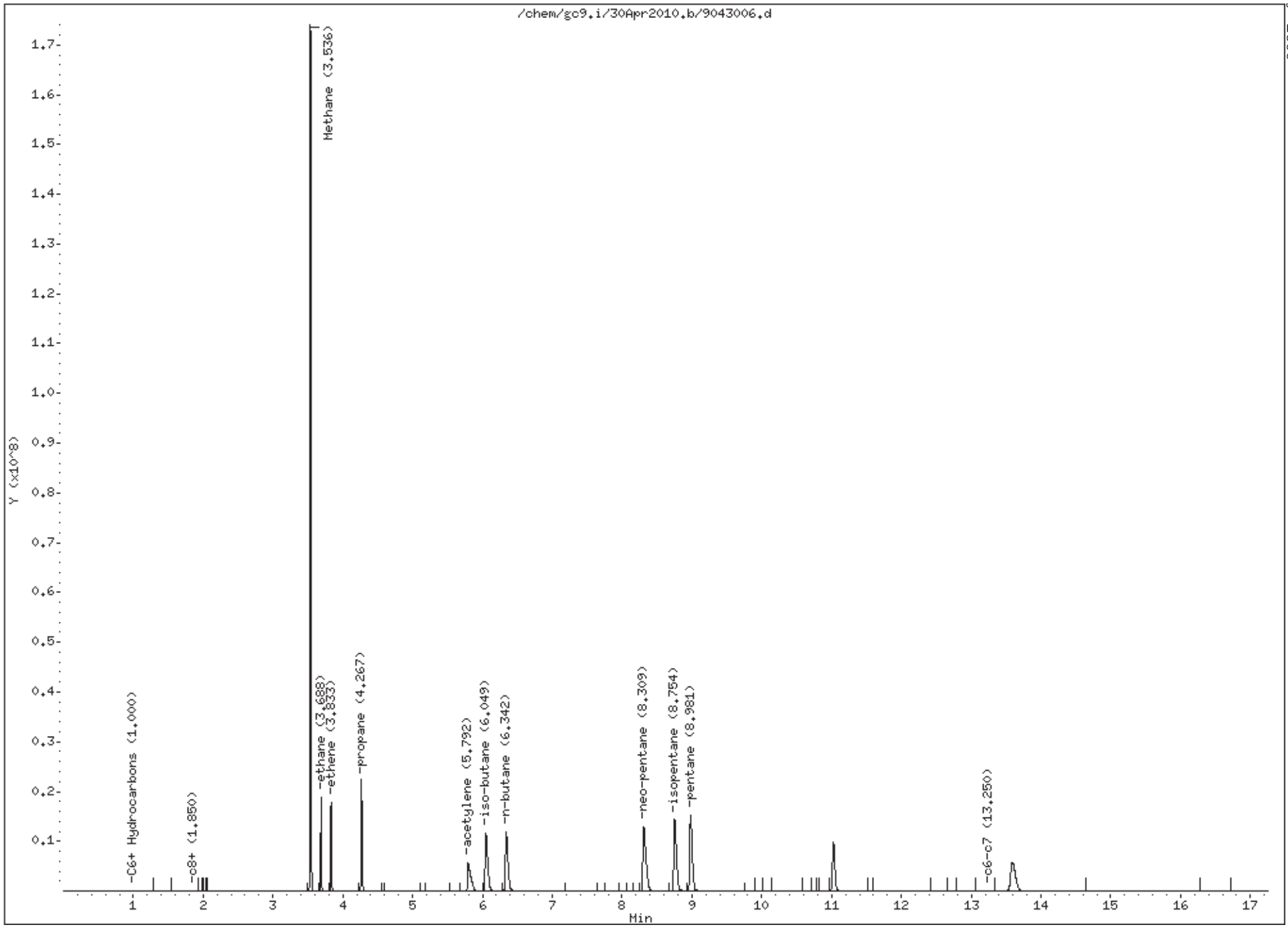
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

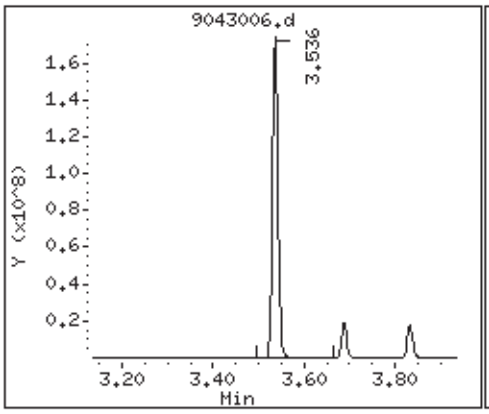
						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
	==========	==	======	======	========	=======	=======
	2 Methane	3.536	3.536	0.000	1517483193	9.95000	9.16
	3 ethane	3.688	3.688	0.000	148471057	0.49700	0.488
	4 ethene	3.833	3.833	0.000	147277844	0.50000	0.491
	5 propane	4.267	4.267	0.000	227849119	0.50400	0.497
	7 acetylene	5.792	5.792	0.000	186734585	0.50100	0.500
	8 iso-butane	6.049	6.049	0.000	301657034	0.50000	0.496
	10 n-butane	6.342	6.342	0.000	303025106	0.50000	0.497
	15 neo-pentane	8.309	8.309	0.000	404445910	0.50500	0.500
	16 isopentane	8.754	8.754	0.000	383078537	0.50500	0.500
	17 pentane	8.981	8.981	0.000	387982697	0.50500	0.501
M	37 C6+ Hydrocarbons				518462389	0.50000	0.506
S	22 c6-c7	9.250-17.250			516959851	0.51200	0.506
S	36 c8+	0.700-3.000			1502538	0.00000	(a)

QC Flag Legend

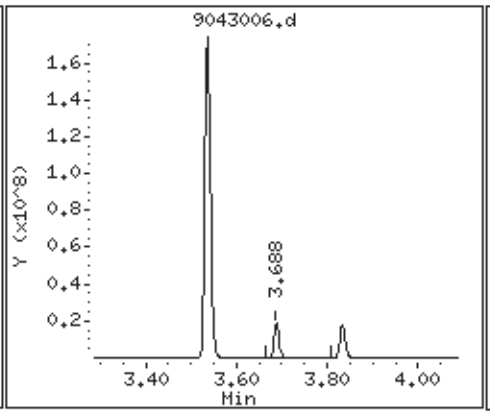
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


/chem/gc9.i/30Apr2010.b/9043006.d
Y (x10^8)
Min
-C6+ Hydrocarbons (1.000)
-c8+ (1.850)
Methane (3.536)
-ethane (3.688)
-ethene (3.833)
-propane (4.267)
-acetylene (5.792)
-iso-butane (6.049)
-n-butane (6.342)
-neo-pentane (8.309)
-isopentane (8.754)
-pentane (8.981)
-c6-c7 (13.250)

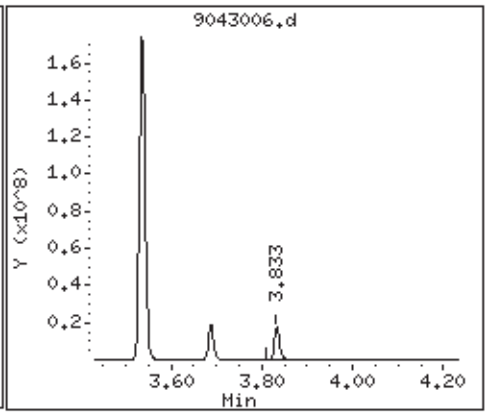
2 Methane



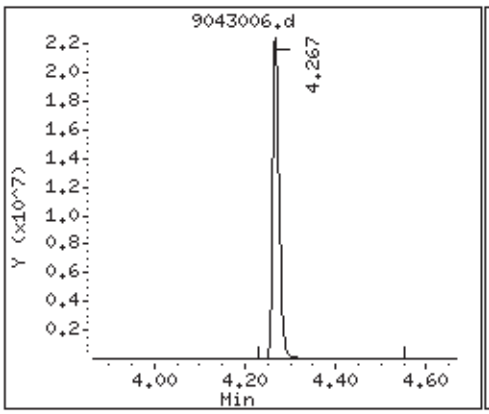
3 ethane



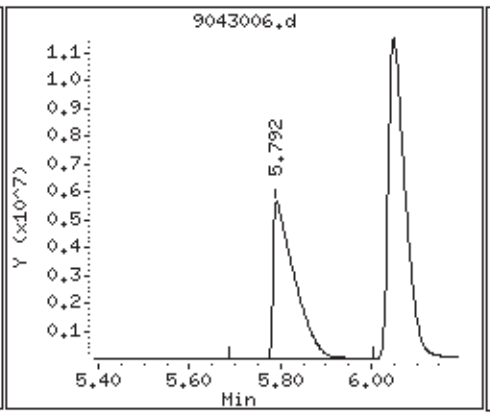
4 ethene



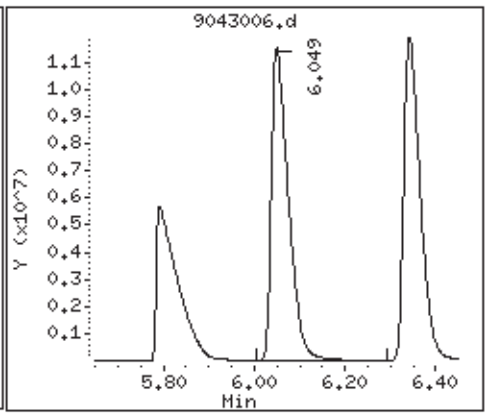
5 propane



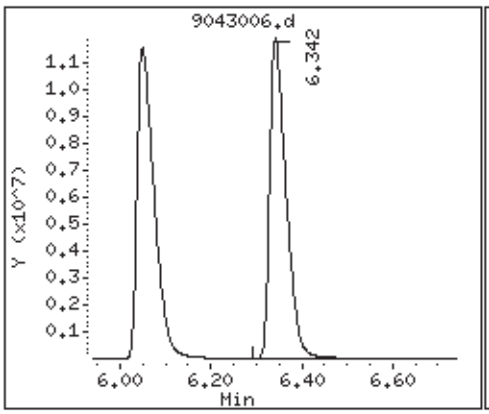
7 acetylene



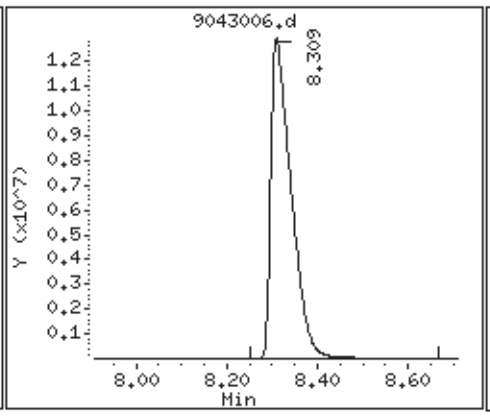
8 iso-butane



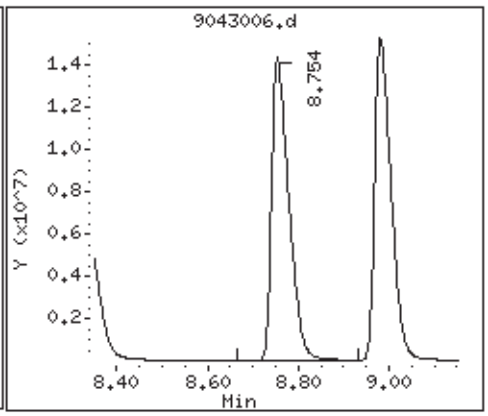
10 n-butane



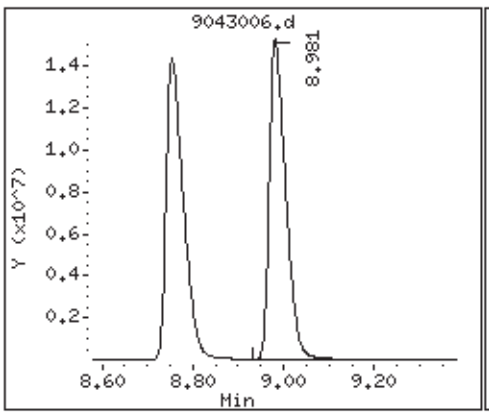
15 neo-pentane



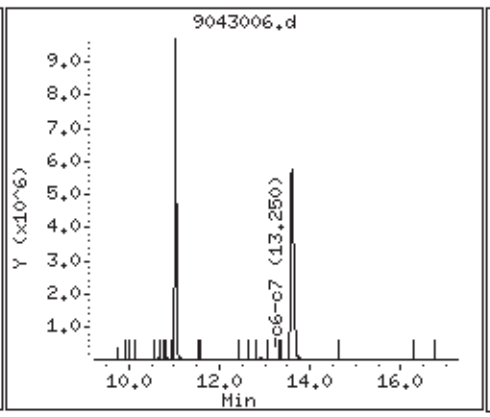
16 isopentane



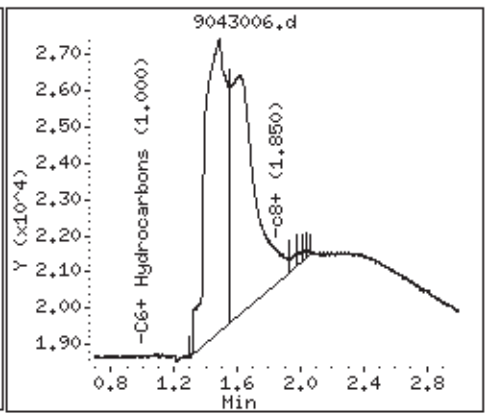
17 pentane



S 22 c6-c7



S 36 c8+



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043015.d
Lab Smp Id: 1476-898 Client Smp ID: Level-6
Inj Date : 30-APR-2010 17:55
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(5:100),
Misc Info : Isopentane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 17:55 Cal File: 9043015.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: isopentane.sub
Target Version: 3.50
Processing Host: eeyore

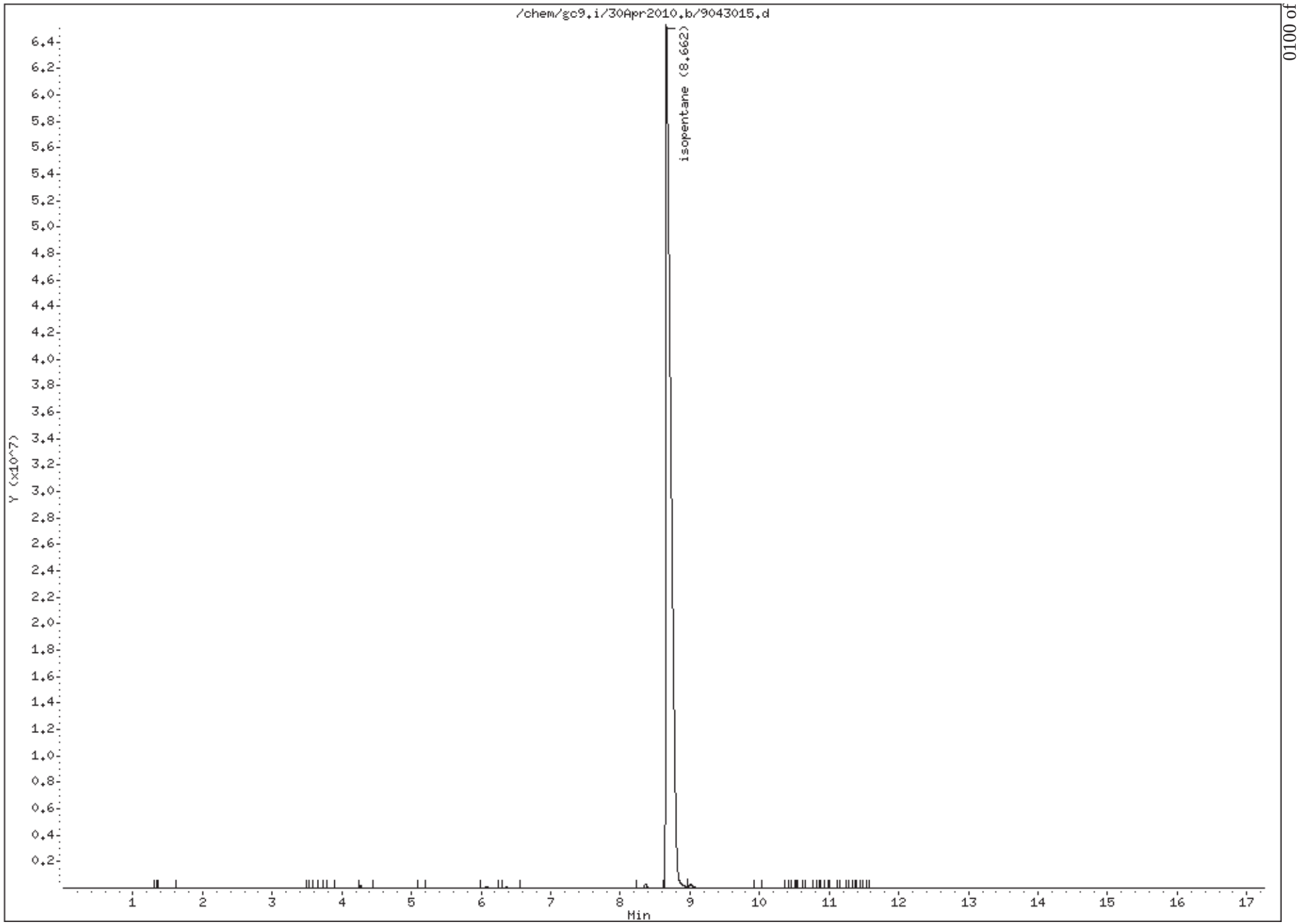
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

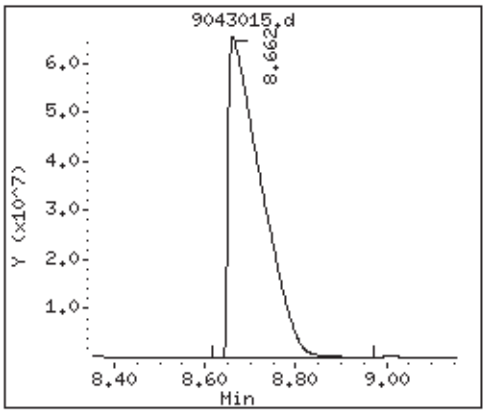
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
16 isopentane	8.662	8.754	-0.092	3298665077	4.95000	4.42(A)

QC Flag Legend

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


/chem/gc9.i/30Apr2010.b/9043015.d
isopentane (8.662)
Y (x10^7)
Min

16 isopentane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043012.d
Lab Smp Id: 1476-897 Client Smp ID: Level-6
Inj Date : 30-APR-2010 15:55
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(5:50),
Misc Info : Butane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 15:55 Cal File: 9043012.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Butane.sub
Target Version: 3.50
Processing Host: eeyore

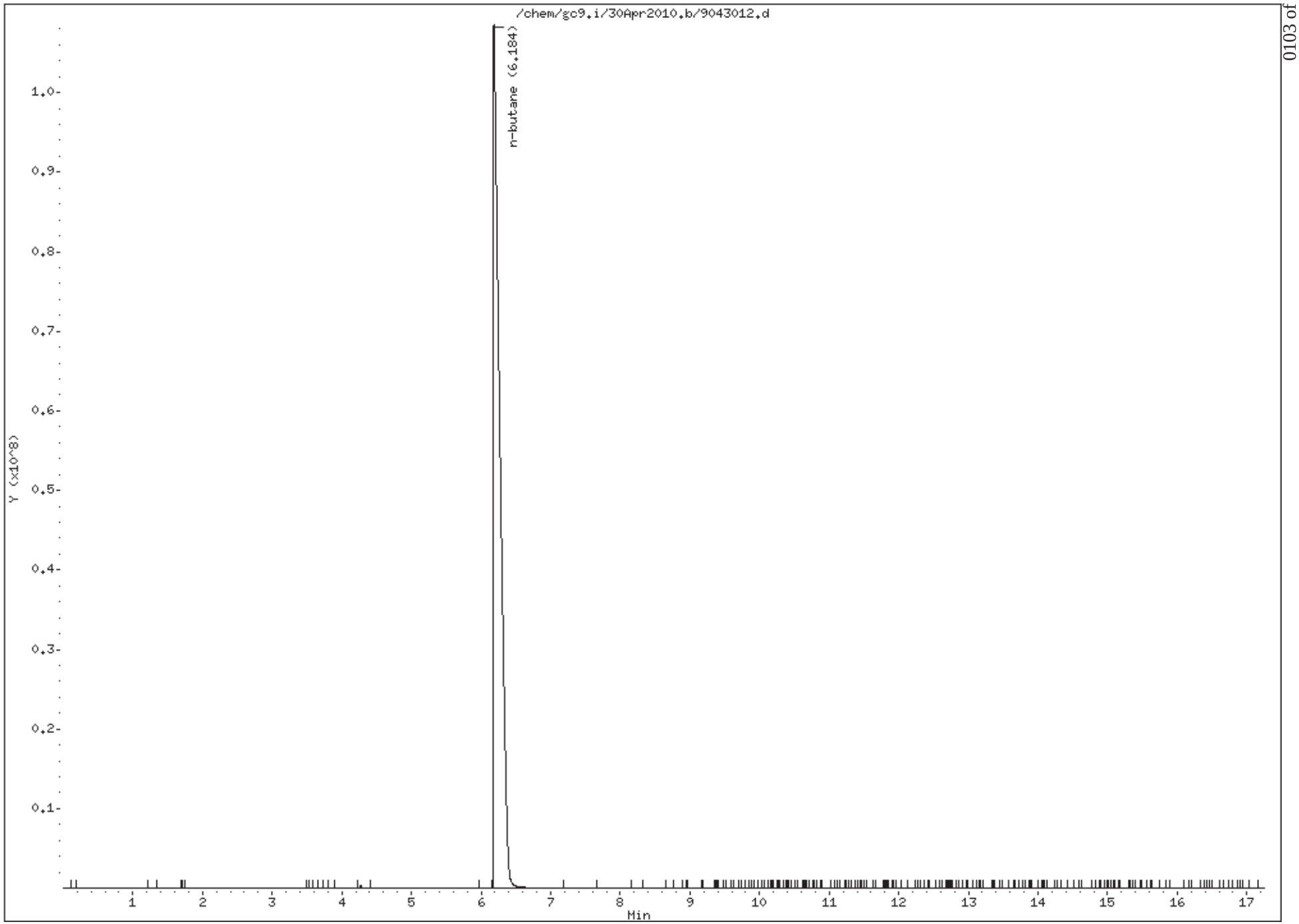
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

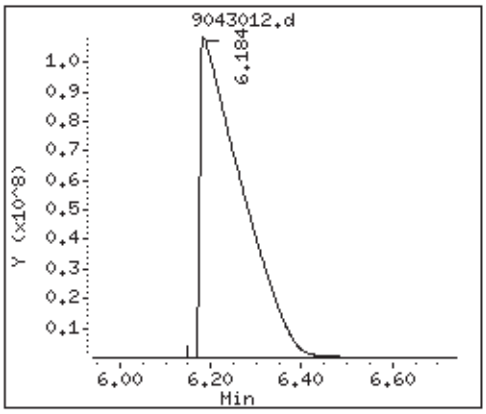
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
10 n-butane	6.184	6.342	-0.158	6972625144	9.99000	11.1(A)

QC Flag Legend

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


/chem/gc9.i/30Apr2010.b/9043012.d
n-butane (6.184)
Y (x10^8)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

10 n-butane


9043012.d
6.184
Y (x10^8)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6.00
6.20
6.40
6.60
Min

Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043011.d
Lab Smp Id: 843-471 Client Smp ID: Level-6
Inj Date : 30-APR-2010 15:29
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(10:50),
Misc Info : Propane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 15:29 Cal File: 9043011.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: propane.sub
Target Version: 3.50
Processing Host: eeyore

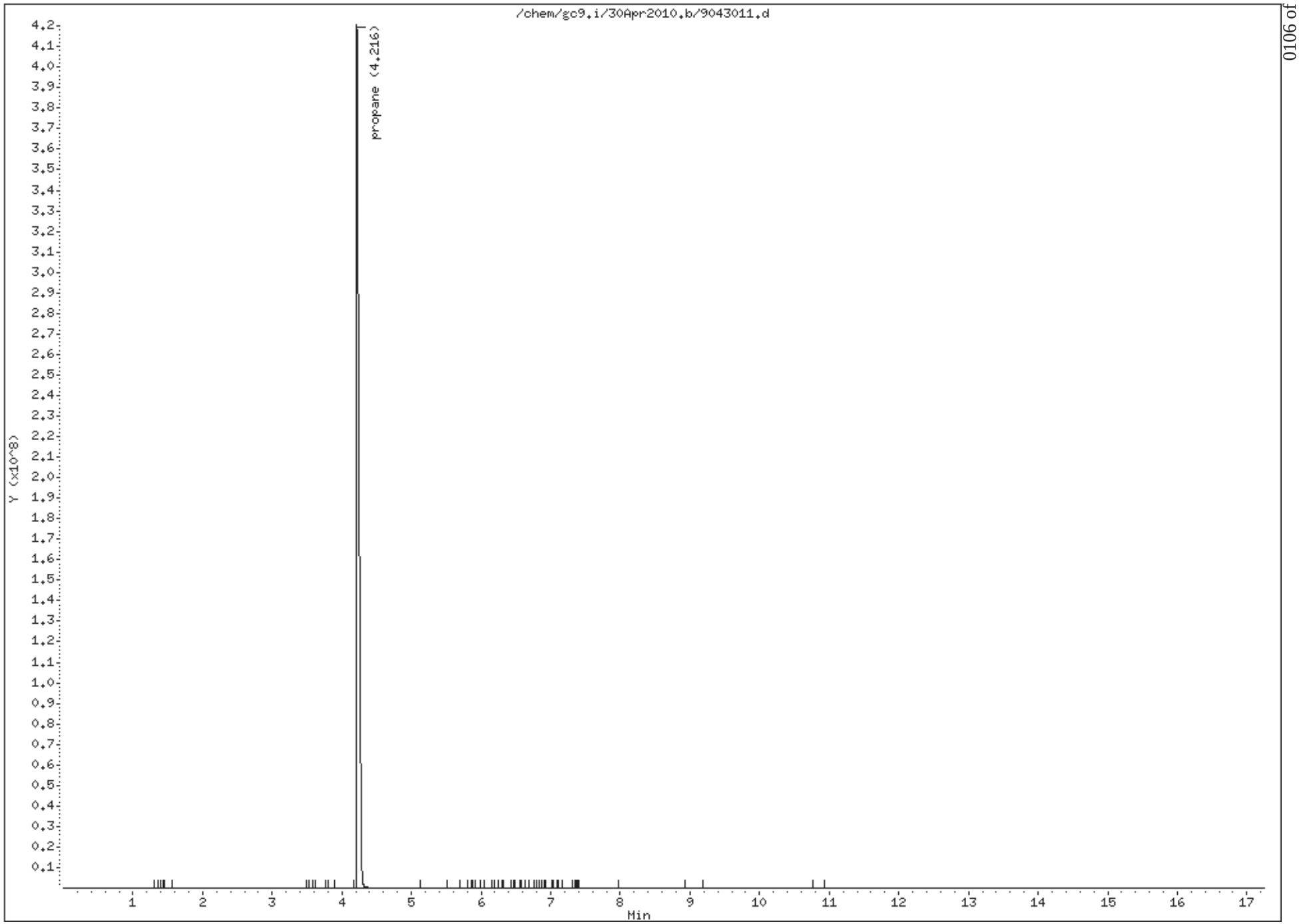
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

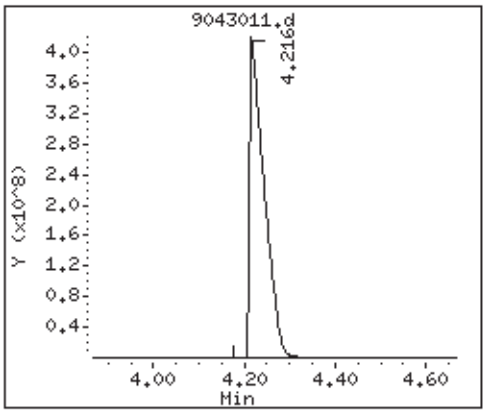
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
5 propane	4.216	4.267	-0.051	9527733099	19.9000	20.6(A)

QC Flag Legend

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


/chem/gc9.i/30Apr2010.b/9043011.d
propane (4.216)
Y (x10^8)
Min

5 propane


9043011.d
4.216
Y (x10^8)
4.0
3.6
3.2
2.8
2.4
2.0
1.6
1.2
0.8
0.4
4.00
4.20
4.40
4.60
Min

Air Toxics Ltd.

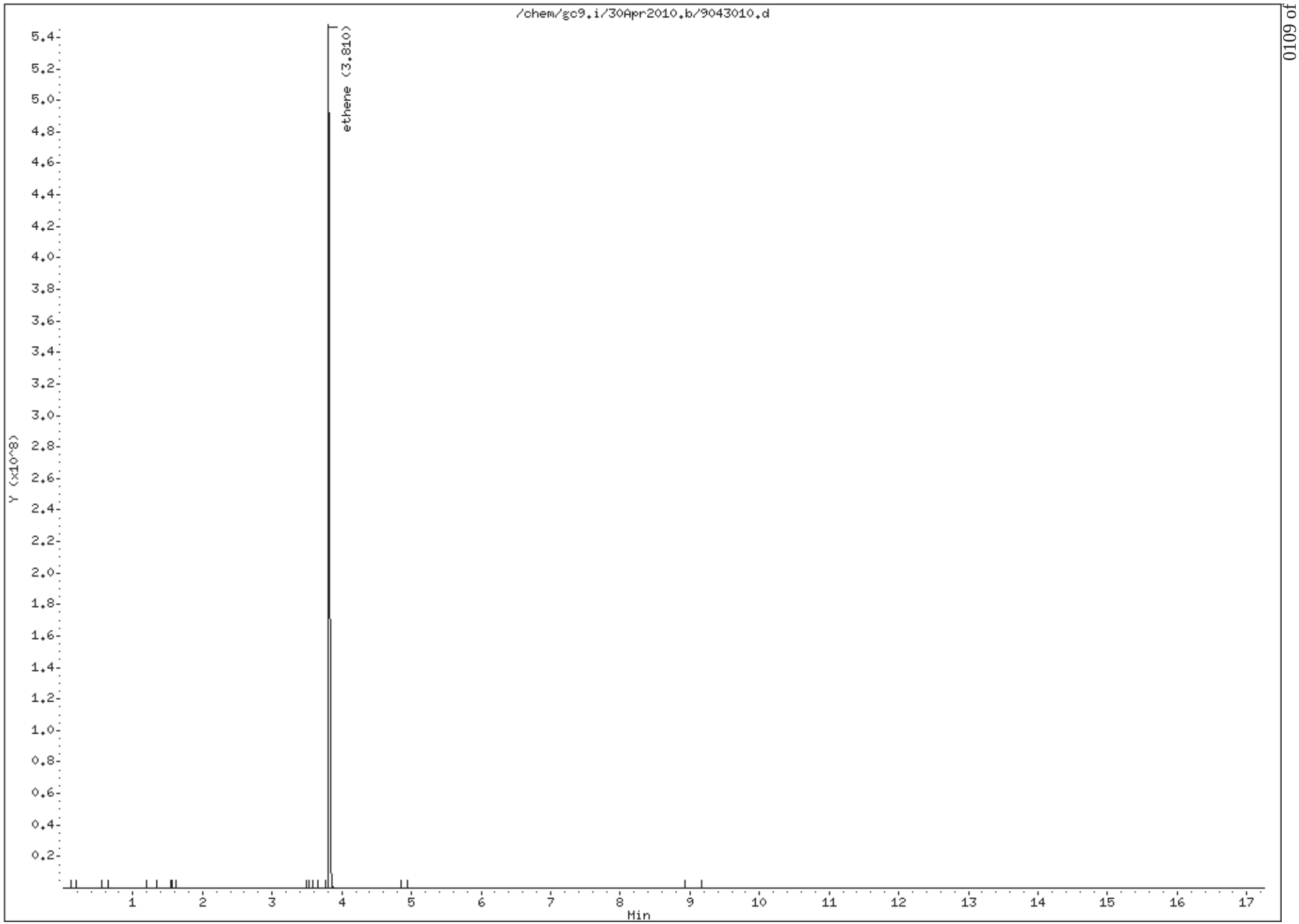
Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043010.d
Lab Smp Id: 1476-437 Client Smp ID: Level-6
Inj Date : 30-APR-2010 15:02
Operator : gd Inst ID: gc9.i
Smp Info : 1.0mL(12.5:50),
Misc Info : Ethene
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 15:02 Cal File: 9043010.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ehtene.sub
Target Version: 3.50
Processing Host: eeyore

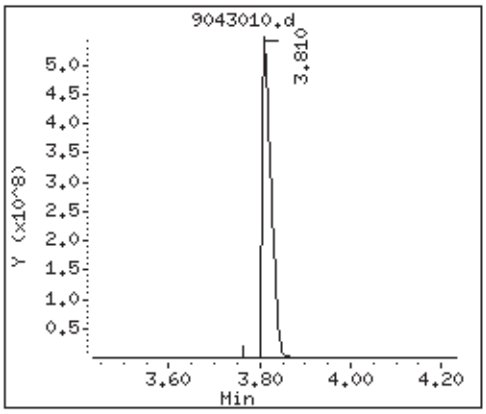
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
4 ethene	3.810	3.833	-0.023	7353764724	24.8750	24.6


/chem/gc9.i/30Apr2010.b/9043010.d
ethene (3.810)
Y (x10^8)
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

4 ethene


9043010.d
3.810
Y (x10^8)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
3.60
3.80
4.00
4.20
Min

Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043009.d
Lab Smp Id: 1476-438 Client Smp ID: Level-6:
Inj Date : 30-APR-2010 14:28
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL(12.5:50),
Misc Info : Ethane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 14:28 Cal File: 9043009.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ehtane.sub
Target Version: 3.50
Processing Host: eeyore

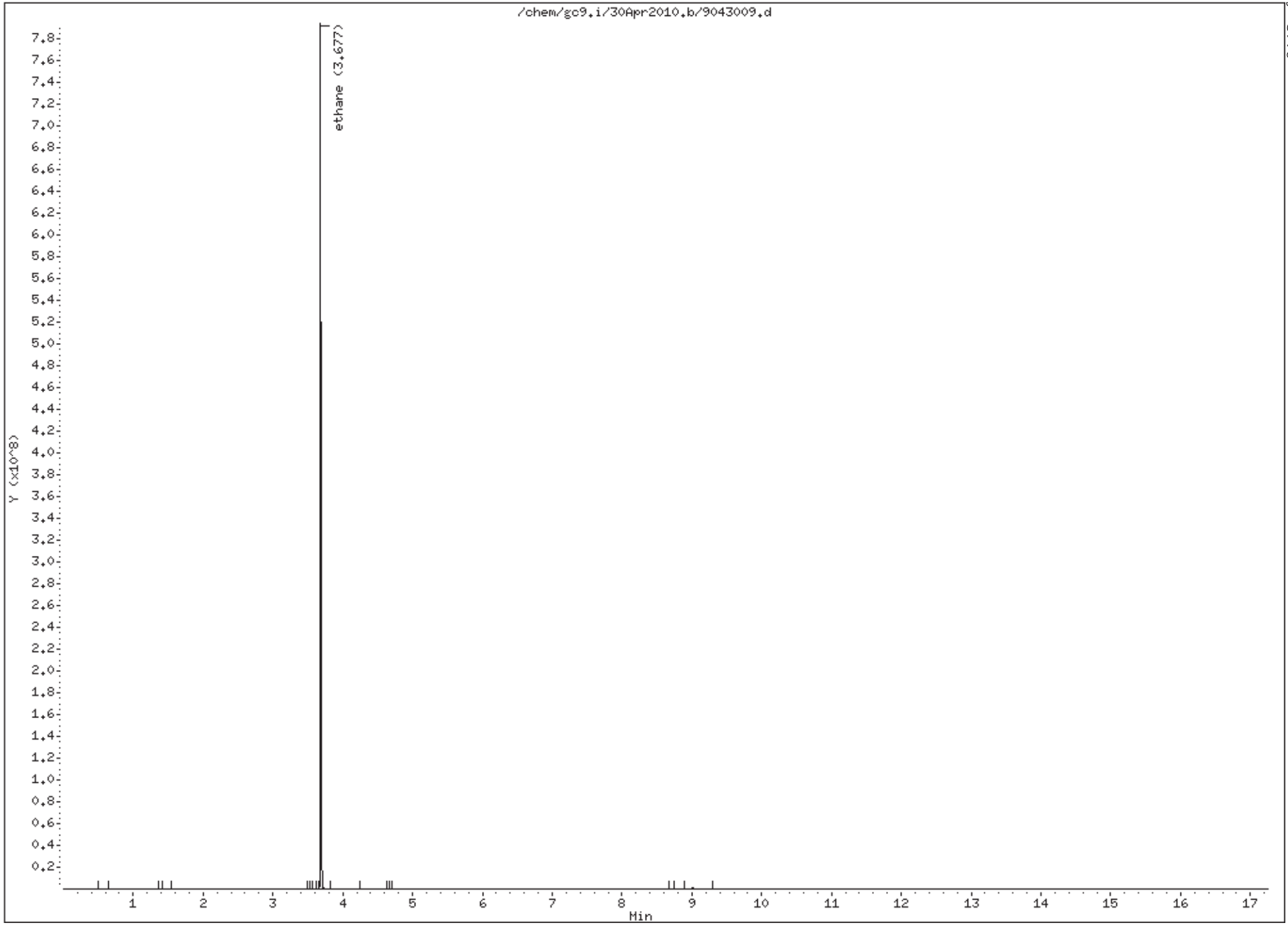
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

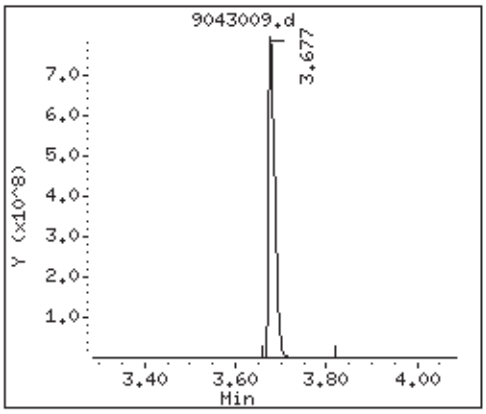
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
3 ethane	3.677	3.688	-0.011	7661033105	24.9750	25.2(A)

QC Flag Legend

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


/chem/gc9.i/30Apr2010.b/9043009.d
ethane (3.677)
Y (x10^8)
Min

3 ethane



Air Toxics Ltd.

Modified ASTM-1945 Analysis

Data file : /chem/gc9.i/30Apr2010.b/9043008.d
Lab Smp Id: 1476-910 Client Smp ID: Level-6:
Inj Date : 30-APR-2010 13:54
Operator : ly Inst ID: gc9.i
Smp Info : 1.0mL,
Misc Info : Pentane
Comment : GC FID
Method : /chem/gc9.i/30Apr2010.b/910n0430.m
Meth Date : 03-May-2010 11:40 gmash Quant Type: ESTD
Cal Date : 30-APR-2010 13:54 Cal File: 9043008.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Pentane.sub
Target Version: 3.50
Processing Host: eeyore

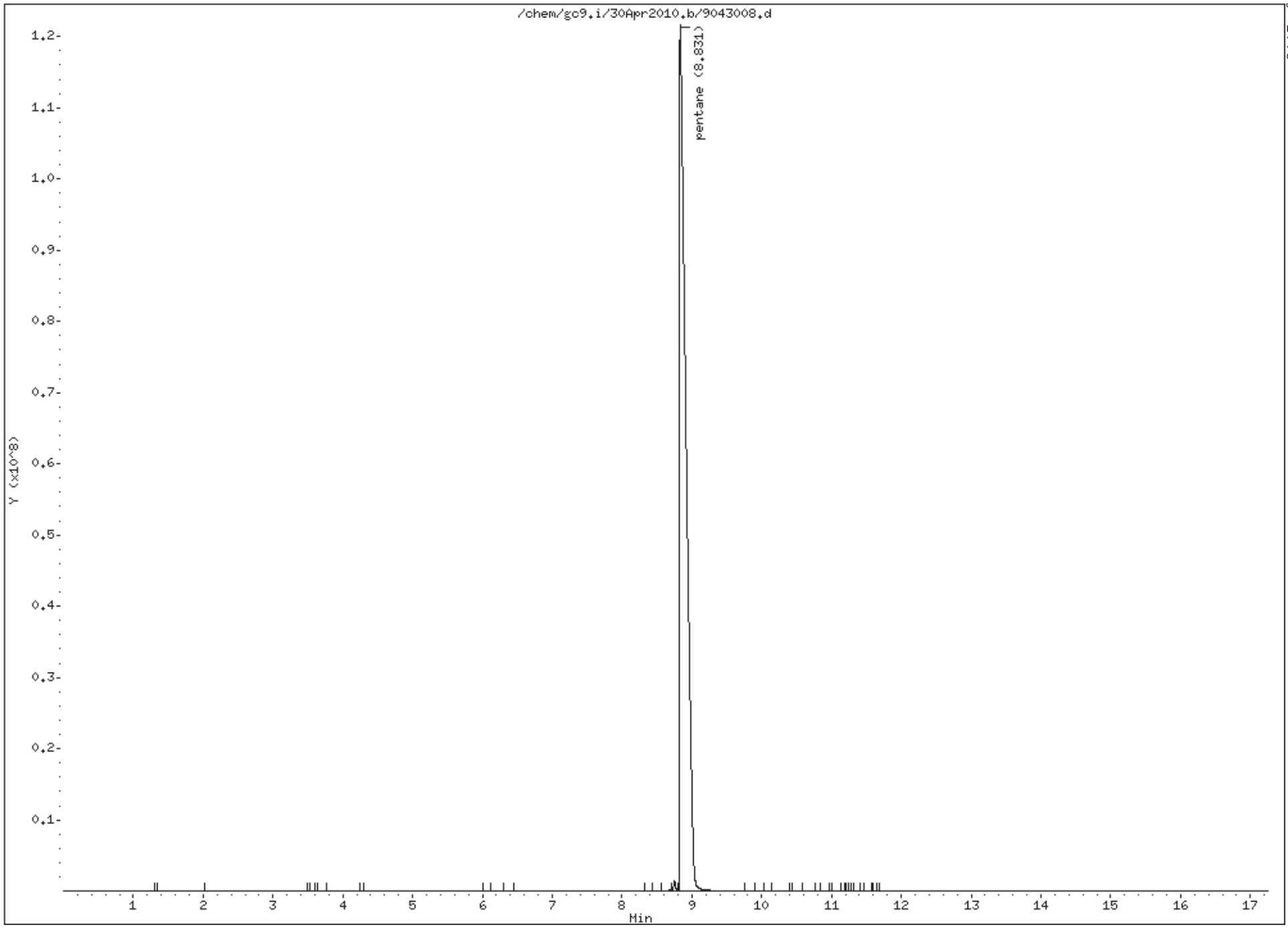
Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

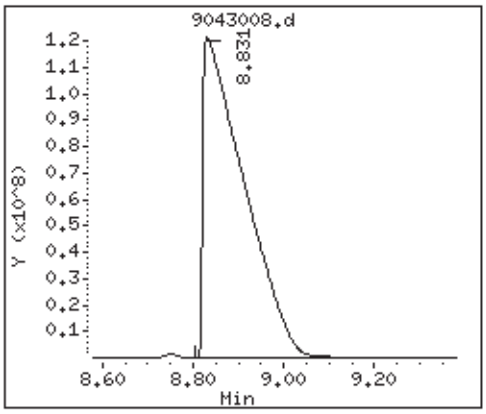
					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(%)	(%)
17 pentane	8.831	8.981	-0.150	7689887757	9.99000	9.95(A)

QC Flag Legend

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


/chem/gc9.i/30Apr2010.b/9043008.d
pentane (8.831)
Y (x10^8)
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Min

17 pentane


9043008.d
8.831
Y (x10^8)
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
8.60
8.80
9.00
9.20
Min

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-APR-2010 09:26
End Cal Date : 17-APR-2010 16:10
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gc9.i/17Apr2010.b/910C0417.m
Cal Date : 19-Apr-2010 10:48 gmash
Curve Type : Average

Calibration File Names:
Level 1: /chem/gc9.i/17Apr2010.b/9041714b.d
Level 2: /chem/gc9.i/17Apr2010.b/9041716b.d
Level 3: /chem/gc9.i/17Apr2010.b/9041718b.d
Level 4: /chem/gc9.i/17Apr2010.b/9041720b.d
Level 5: /chem/gc9.i/17Apr2010.b/9041711b.d

	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1 Helium	67829686	67931134	67110407	64573848	+++++	66861269	2.345
2 Hydrogen	98669700	111145755	108640962	101986198	+++++	105110654	5.496
3 Carbon Dioxide	658282085	508739099	525547255	519170311	540430994	550433949	11.150
9 Oxygen	321739168	289586327	386868260	311792564	319509160	325899096	11.162
10 Nitrogen	458006131	337845541	349963286	341039571	337598448	364890596	14.331
12 Carbon Monoxide	249181994	252716240	289952941	307142367	318118751	283422459	11.052

Calibration History

Method : /chem/gc9.i/17Apr2010.b/910C0417.m
Start Cal Date: 17-APR-2010 09:26
End Cal Date : 17-APR-2010 16:10

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00000		
17-APR-2010 13:45	heh2	/chem/gc9.i/17Apr2010.b/9041714b.d
17-APR-2010 09:26	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041704b.d
Cal Level: 2 , Cal Amount: 0.00000		
17-APR-2010 14:30	h2	/chem/gc9.i/17Apr2010.b/9041716b.d
17-APR-2010 14:07	he	/chem/gc9.i/17Apr2010.b/9041715b.d
17-APR-2010 09:48	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041705b.d
Cal Level: 3 , Cal Amount: 0.00000		
17-APR-2010 15:17	he	/chem/gc9.i/17Apr2010.b/9041718b.d
17-APR-2010 14:53	h2	/chem/gc9.i/17Apr2010.b/9041717b.d
17-APR-2010 10:12	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041706b.d
Cal Level: 4 , Cal Amount: 0.00000		
17-APR-2010 16:10	h2	/chem/gc9.i/17Apr2010.b/9041720b.d
17-APR-2010 15:47	he	/chem/gc9.i/17Apr2010.b/9041719b.d
17-APR-2010 10:34	ngas-H2He	/chem/gc9.i/17Apr2010.b/9041707b.d
Cal Level: 5 , Cal Amount: 0.00000		
17-APR-2010 12:33	co	/chem/gc9.i/17Apr2010.b/9041711b.d
17-APR-2010 12:10	co2	/chem/gc9.i/17Apr2010.b/9041710b.d
17-APR-2010 11:24	O2	/chem/gc9.i/17Apr2010.b/9041709b.d
17-APR-2010 10:58	n2	/chem/gc9.i/17Apr2010.b/9041708b.d

TCD - Curve
GC-9

Report Date : 19-Apr-2010 10:48

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-APR-2010 09:26
End Cal Date : 17-APR-2010 16:10
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gc9.i/17Apr2010.b/910C0417.m
Cal Date : 19-Apr-2010 10:48 gmash
Curve Type : Average

gm 4/19/10
rr 4/19/10

Calibration File Names:
Level 1: /chem/gc9.i/17Apr2010.b/9041714b.d
Level 2: /chem/gc9.i/17Apr2010.b/9041716b.d
Level 3: /chem/gc9.i/17Apr2010.b/9041718b.d
Level 4: /chem/gc9.i/17Apr2010.b/9041720b.d
Level 5: /chem/gc9.i/17Apr2010.b/9041711b.d

Based on a 1.0mL loop load.

	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1 Helium	67829686	67931134	67110407	64573848	+++++	66861269	2.345
2 Hydrogen	98669700	111145755	108640962	101986198	+++++	105110654	5.496
3 Carbon Dioxide	658282085	508739099	525547255	519170311	540430994	550433949	11.150
9 Oxygen	321739168	289586327	386868260	311792564	319509160	325899096	11.162
10 Nitrogen	458006131	337845541	349963286	341039571	337598448	364890596	14.331
12 Carbon Monoxide	249181994	252716240	28995294	30714236	31811875	283422459	11.052

gm 4/19/10

GC-9 TCD

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Second Source
Helium	0.04935	0.9870	50.0	100	N/A	9041721b
Hydrogen	0.01000	0.4000	2.00	25.0	N/A	9041722b
Carbon Dioxide	0.00988	0.0988	4.00	10.0	69.790	9041712b
Oxygen	0.09860	0.4931	1.000	2.50	29.910	9041712b
Nitrogen	0.09900	0.4950	28.21	70.524	100	9041712b
Carbon Monoxide	0.00983	0.1024	0.404	1.01	9.93	9041712b