



Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-4A

INVENTORY SHEET

Work Order #: 0907047A

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Comments:

Completed by:

Kara McKiernan

(Signature)

Kara McKiernan / Document Control

(Print Name & Title)

7/17/09

(Date)


WORK ORDER #: 0907047A

Work Order Summary

CLIENT:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	BILL TO:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
PHONE:	208-389-1030	P.O. #	103P0333.005
FAX:		PROJECT #	109P0333.006 BMI Offsite
DATE RECEIVED:	07/02/2009	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/15/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	OFF03-063009	Modified TO-4A
04A	OFF04-063009	Modified TO-4A
05A	Lab Blank	Modified TO-4A
06A	LCS	Modified TO-4A

CERTIFIED BY:



Laboratory Director

DATE: 07/15/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 07/01/08, Expiration date: 06/30/09

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-4A
Tetra Tech
Workorder# 0907047A**

Two PUF/XAD Cartridge samples were received on July 02, 2009. The laboratory performed analysis via Modified EPA Method TO-4A using GC/ECD. The PUF samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. Following the extraction, the solvent is switched to hexane and the extract concentrated. Analysis is carried out on a HP GC/ECD and second column confirmation is used to positively identify pesticide results. Duplicate extraction cannot be performed on PUF media, therefore duplicate results are derived from analyzing the extract twice.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>Method TO-4A</i>	<i>ATL Modifications</i>
Extraction Solvent	10 % Diethyl Ether in Hexane	DCM, exchanging to Hexane during the concentration step.
Reagent Blank	Set up extraction system without filter/PUF; reflux with solvent	No Reagent Blank is extracted. Reagent lots are certified as acceptable prior to use.
Initial Calibration Verification (ICV)	Second source standard analyzed after ICAL; recovery 85 - 115 %	Recovery limits are 85-115% for pesticides; 80-120% for PCBs.
PCB Quantitation	Requires a minimum of 5 peaks	Use 4 peaks for quantitation.
Frequency of Continuing Calibration Verification	Every 10 samples.	Every 20 samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The associated comprehensive data validation package provided at a later date shows the time of analysis in GMT in the raw data files. Due to software limitations the time cannot be adjusted. However, the time on the final PDF and EDD reports are provided in PST.

Sampling volume was supplied by the client. A sample volume of 70 m³ was assumed for all QC samples.

The recovery for Endrin Aldehyde in the LCS was outside the method specified control limits. Historically derived control limits for this compound indicate a trend toward low recovery from the PUF media. In house generated control limits for Endrin Aldehyde were used to evaluate recovery for PUF media. Endrin Aldehyde results are qualified as estimated values. All other LCS recoveries were within acceptance limits.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit.
- 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	Sample Extract		Sample Condition
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	
OFF03-063009	0907047A-01A	6/30/2009	7/ 2/2009	7/ 6/2009	6	7/14/2009	8	Good
OFF04-063009	0907047A-04A	6/30/2009	7/ 2/2009	7/ 6/2009	6	7/14/2009	8	Good
Lab Blank	0907047A-05A	NA	NA	7/ 6/2009	NA	7/14/2009	8	Good
LCS	0907047A-06A	NA	NA	7/ 6/2009	NA	7/14/2009	8	Good

Sample Results and Raw Data



Summary of Detected Compounds MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF03-063009

Lab ID#: 0907047A-01A

No Detections Were Found.

Client Sample ID: OFF03-063009

Lab ID#: 0907047A-01A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	P071409	Date of Collection: 6/30/09 4:41:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/14/09 02:33 PM
		Date of Extraction: 7/6/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0014	Not Detected	Not Detected
alpha-BHC	0.10	0.0014	Not Detected	Not Detected
beta-BHC	0.10	0.0014	Not Detected	Not Detected
delta-BHC	0.10	0.0014	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0014	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0014	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0014	Not Detected	Not Detected
4,4'-DDD	0.10	0.0014	Not Detected	Not Detected
4,4'-DDE	0.10	0.0014	Not Detected	Not Detected
4,4'-DDT	0.10	0.0014	Not Detected	Not Detected
Dieldrin	0.10	0.0014	Not Detected	Not Detected
Endosulfan I	0.10	0.0014	Not Detected	Not Detected
Endosulfan II	0.10	0.0014	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0014	Not Detected	Not Detected
Endrin	0.10	0.0014	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0014	Not Detected	Not Detected
Endrin Ketone	0.10	0.0014	Not Detected	Not Detected
Heptachlor	0.10	0.0014	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0014	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.014	Not Detected	Not Detected
Toxaphene	1.0	0.014	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.014	Not Detected	Not Detected
Aroclor-1221	1.0	0.014	Not Detected	Not Detected
Aroclor-1232	1.0	0.014	Not Detected	Not Detected
Aroclor-1248	1.0	0.014	Not Detected	Not Detected
Aroclor-1254	1.0	0.014	Not Detected	Not Detected
Aroclor-1260	1.0	0.014	Not Detected	Not Detected

Air Sample Volume(L): 70000

Aroclors are reported from file p071409a.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	76	60-120
Decachlorobiphenyl	74	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071409.d

Lab Smp Id: 0907047A-01A

Inj Date : 14-JUL-2009 21:33

Operator : rn

Smp Info :

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/14Jul2009.b/p0910519.m

Meth Date : 14-Jul-2009 15:37 lzhang

Cal Date : 19-MAY-2009 20:37

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P051912.d

Compound Sublist: all.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.012	6.011	(0.352)	8399672582	0.45940	0.4594
M 3 toxaphene		Compound Not Detected.					
4 toxaphene-1		Compound Not Detected.					
5 toxaphene-2		Compound Not Detected.					
6 toxaphene-3		Compound Not Detected.					
7 toxaphene-4		Compound Not Detected.					
8 a-BHC		Compound Not Detected.					
9 g-BHC		Compound Not Detected.					
10 b-BHC		Compound Not Detected.					
11 d-BHC		Compound Not Detected.					
12 Heptachlor		Compound Not Detected.					
13 Aldrin		Compound Not Detected.					
14 Heptachlor Epoxide		Compound Not Detected.					
15 g-Chlordane		Compound Not Detected.					
16 a-Chlordane		Compound Not Detected.					
17 Endosulfan I		Compound Not Detected.					
18 DDE		Compound Not Detected.					
19 Dieldrin		Compound Not Detected.					
20 Endrin		Compound Not Detected.					
21 DDD		Compound Not Detected.					
22 Endosulfan II		Compound Not Detected.					

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE		(ug)	(ug)
=====	==	=====	=====	=====		=====	=====
23 DDT		Compound Not Detected.					
24 Endrin Aldehyde		Compound Not Detected.					
25 Endosulfan Sulfate		Compound Not Detected.					
26 Methoxychlor		Compound Not Detected.					
169 Mirex		Compound Not Detected.					
27 Endrin Ketone		Compound Not Detected.					
\$ 28 DCB	15.407	15.404	(0.902)	5087535916		0.44105	0.4410
* 29 Decachlorodiphenyl Ether	17.079	17.076	(1.000)	18879678390		2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071409a.d

Lab Smp Id: 0907047A-01A

Inj Date : 14-JUL-2009 21:33

Operator : rn

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/14Jul2009.b/p09p0522.m

Meth Date : 14-Jul-2009 15:38 lzhang

Cal Date : 22-MAY-2009 19:06

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P052203.d

Compound Sublist: all_42.sub

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.012	6.009	(0.352)	7429712504	0.50942	0.509
M 3 pcb1016/1242		Compound Not Detected.					
4 pcb1016/1242-1		Compound Not Detected.					
5 pcb1016/1242-2		Compound Not Detected.					
6 pcb1016/1242-3		Compound Not Detected.					
7 pcb1016/1242-4		Compound Not Detected.					
M 8 pcb1260		Compound Not Detected.					
9 pcb1260-1		Compound Not Detected.					
10 pcb1260-2		Compound Not Detected.					
11 pcb1260-3		Compound Not Detected.					
12 pcb1260-4		Compound Not Detected.					
M 13 pcb1221		Compound Not Detected.					
14 pcb1221-1		Compound Not Detected.					
15 pcb1221-2		Compound Not Detected.					
16 pcb1221-3		Compound Not Detected.					

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	
=====		==	=====	=====	=====	=====
	17	pcb1221-4	Compound	Not	Detected.	
M	18	pcb1232	Compound	Not	Detected.	
	19	pcb1232-1	Compound	Not	Detected.	
	20	pcb1232-2	Compound	Not	Detected.	
	21	pcb1232-3	Compound	Not	Detected.	
	22	pcb1232-4	Compound	Not	Detected.	
M	28	pcb1248	Compound	Not	Detected.	
	29	pcb1248-1	Compound	Not	Detected.	
	30	pcb1248-2	Compound	Not	Detected.	
	31	pcb1248-3	Compound	Not	Detected.	
	32	pcb1248-4	Compound	Not	Detected.	
M	33	pcb1254	Compound	Not	Detected.	
	34	pcb1254-1	Compound	Not	Detected.	
	35	pcb1254-2	Compound	Not	Detected.	
	36	pcb1254-3	Compound	Not	Detected.	
	37	pcb1254-4	Compound	Not	Detected.	
\$	38	DCB	15.407	15.403	(0.902)	4797848854
						0.48972
						0.490
*	39	Decachlorodiphenyl Ether	17.079	17.074	(1.000)	18707172946
						2.00000

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071409.d

Calibration Time: 19:02

Lab Smp Id: 0907047A-01A

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19850667168	9925333584	39701334336	18879678390	-4.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.08	16.58	17.58	17.08	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.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071409a.d

Calibration Time: 18:36

Lab Smp Id: 0907047A-01A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	18648773486	9324386743	37297546971	18707172946	0.31

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.07	16.57	17.57	17.08	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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0907047A-01A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4594	76.57	60-120
\$ 28 DCB	0.6000	0.4410	73.51	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0907047A-01A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.509	84.90	60-120
\$ 38 DCB	0.600	0.490	81.62	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071409.d

Date : 14-JUL-2009 21:33

Client ID:

Sample Info:

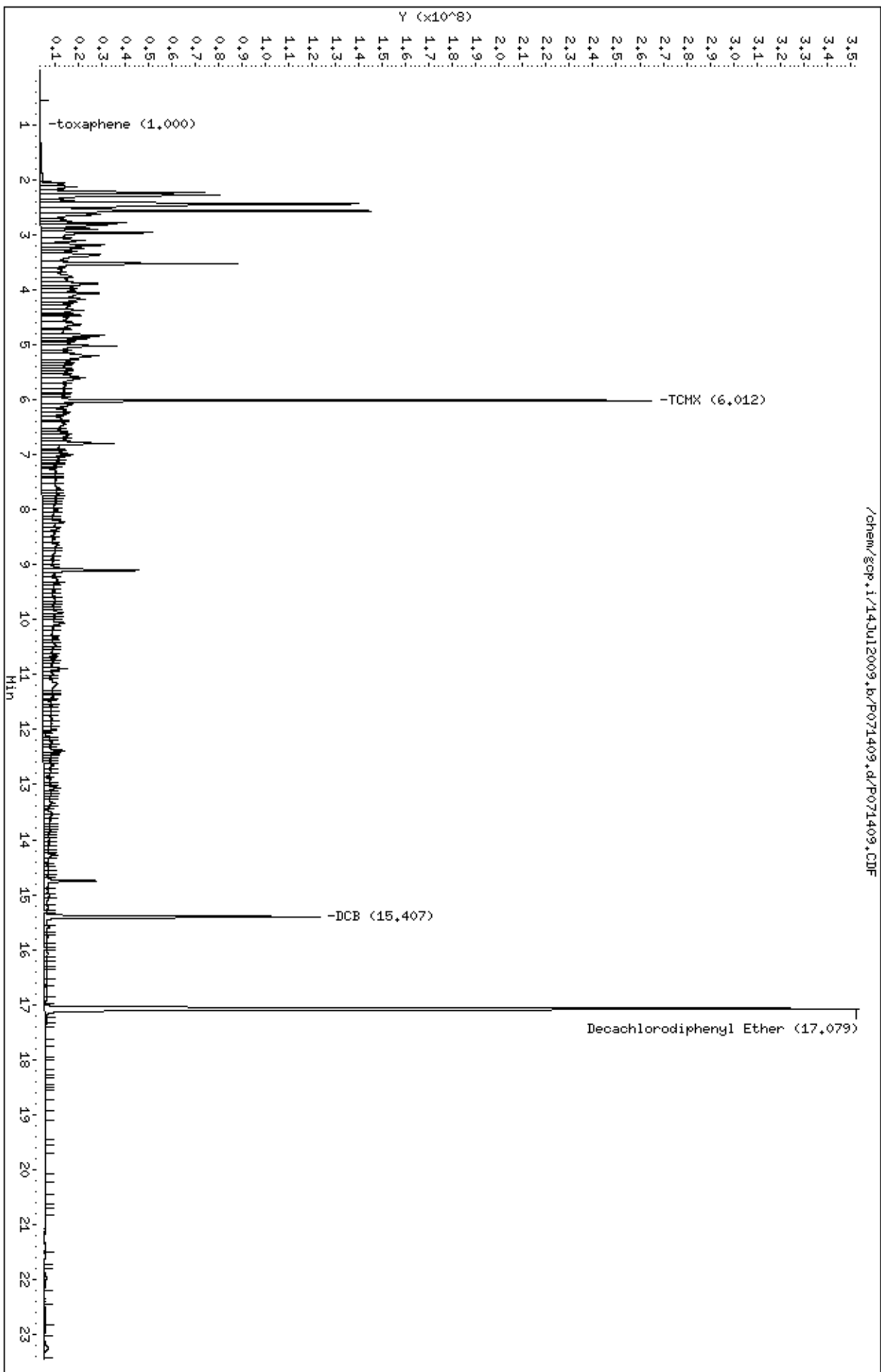
Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00

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Data File: /chem/gcp.i/14Jul2009.b/P071409a.d

Date : 14-JUL-2009 21:33

Client ID:

Sample Info:

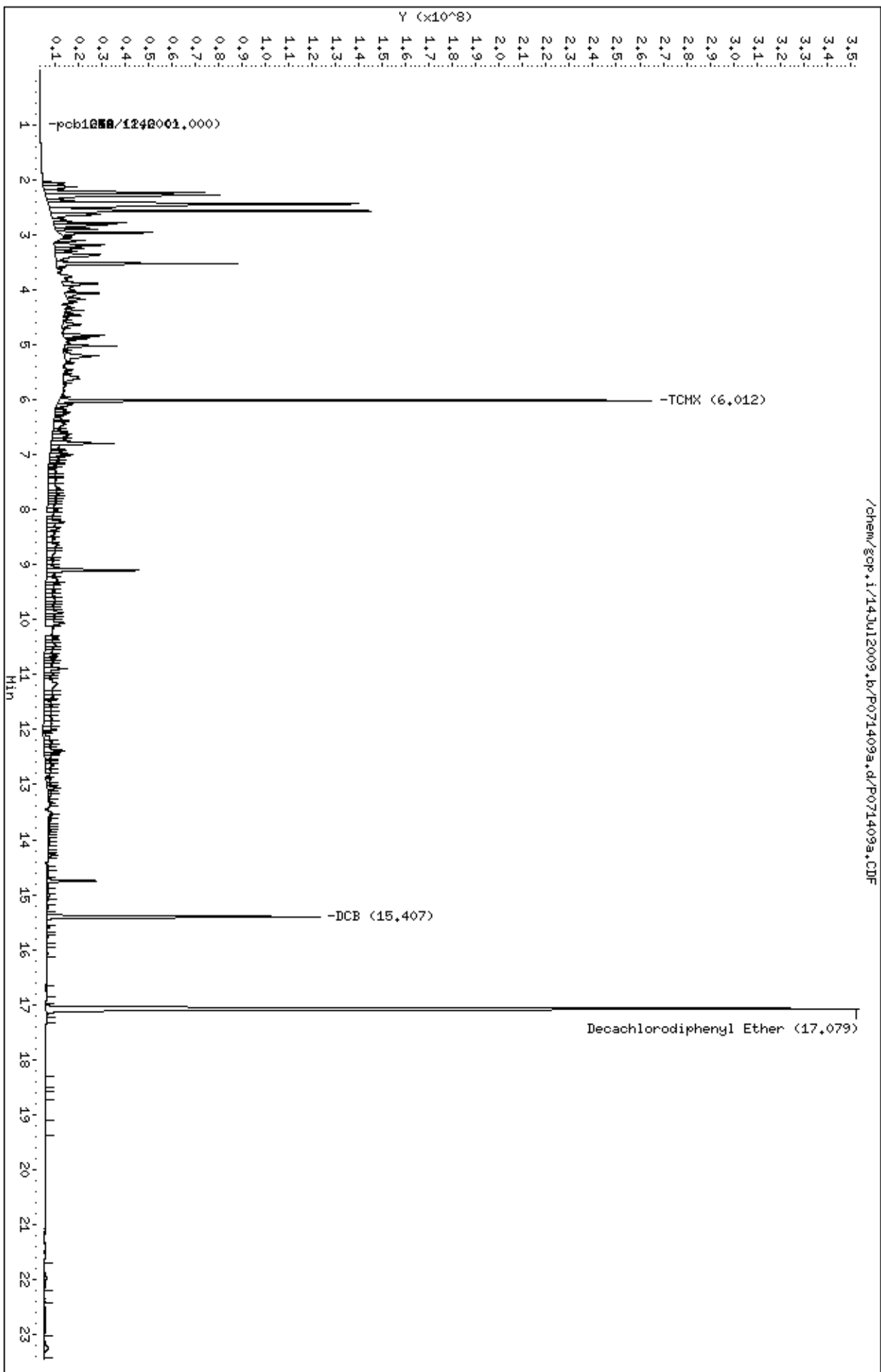
Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00

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Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071409b.d

Lab Smp Id: 0907047A-01A

Inj Date : 14-JUL-2009 21:33

```
Operator      : rn
```

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Back column, Rtx-CLPesticides

Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Meth Date : 14-Jul-2009 15:37 lzhang Quant Type: ISTD

Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all.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	REL RT	RESPONSE	(ug)	(ug)
=====		==	=====	=====	=====	=====	=====
\$	2 TCMX	5.832	5.831	(0.371)	2999614544	0.45440	0.4544
M	3 toxaphene	Compound Not Detected.					
	4 toxaphene-1	Compound Not Detected.					
	5 toxaphene-2	Compound Not Detected.					
	6 toxaphene-3	Compound Not Detected.					
	7 toxaphene-4	Compound Not Detected.					
	8 a-BHC	Compound Not Detected.					
	9 g-BHC	Compound Not Detected.					
	10 b-BHC	Compound Not Detected.					
	11 d-BHC	Compound Not Detected.					
	12 Heptachlor	Compound Not Detected.					
	13 Aldrin	Compound Not Detected.					
	14 Heptachlor Epoxide	Compound Not Detected.					
	15 g-Chlordane	Compound Not Detected.					
	16 a-Chlordane	Compound Not Detected.					
	17 DDE	Compound Not Detected.					
	18 Endosulfan I	Compound Not Detected.					
	19 Dieldrin	Compound Not Detected.					
	20 Endrin	Compound Not Detected.					
	21 DDD	Compound Not Detected.					
	22 Endosulfan II	Compound Not Detected.					

Compounds	CONCENTRATIONS					
	ON-COLUMN			FINAL		
	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
23 DDT	Compound Not Detected.					
24 Endrin Aldehyde	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
168 Mirex	Compound Not Detected.					
26 Endosulfan Sulfate	Compound Not Detected.					
27 Endrin Ketone	Compound Not Detected.					
\$ 28 DCB	14.384	14.381	(0.916)	2255819974	0.42789	0.4279
* 29 Decachlorodiphenyl Ether	15.704	15.701	(1.000)	8376027520	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071409ab.d

Lab Smp Id: 0907047A-01A

Inj Date : 14-JUL-2009 21:33

Operator : rn

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Meth Date : 14-Jul-2009 15:38 lzhang

Cal Date : 22-MAY-2009 23:59

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P052214b.d

Compound Sublist: all_42.sub

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.832	5.829	(0.371)	2900789824	0.49753	0.498
M 3 pcb1016/1242		Compound Not Detected.					
4 pcb1016/1242-1		Compound Not Detected.					
5 pcb1016/1242-2		Compound Not Detected.					
6 pcb1016/1242-3		Compound Not Detected.					
7 pcb1016/1242-4		Compound Not Detected.					
M 8 pcb1260		Compound Not Detected.					
9 pcb1260-1		Compound Not Detected.					
10 pcb1260-2		Compound Not Detected.					
11 pcb1260-3		Compound Not Detected.					
12 pcb1260-4		Compound Not Detected.					
M 13 pcb1221		Compound Not Detected.					
14 pcb1221-1		Compound Not Detected.					
15 pcb1221-2		Compound Not Detected.					
16 pcb1221-3		Compound Not Detected.					

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====	==	=====	=====	=====	=====	=====
17 pcb1221-4		Compound	Not	Detected.		
M 18 pcb1232		Compound	Not	Detected.		
19 pcb1232-1		Compound	Not	Detected.		
20 pcb1232-2		Compound	Not	Detected.		
21 pcb1232-3		Compound	Not	Detected.		
22 pcb1232-4		Compound	Not	Detected.		
M 28 pcb1248		Compound	Not	Detected.		
29 pcb1248-1		Compound	Not	Detected.		
30 pcb1248-2		Compound	Not	Detected.		
31 pcb1248-3		Compound	Not	Detected.		
32 pcb1248-4		Compound	Not	Detected.		
M 33 pcb1254		Compound	Not	Detected.		
34 pcb1254-1		Compound	Not	Detected.		
35 pcb1254-2		Compound	Not	Detected.		
36 pcb1254-3		Compound	Not	Detected.		
37 pcb1254-4		Compound	Not	Detected.		
\$ 38 DCB	14.384	14.380	(0.916)	2252319127	0.49588	0.496
* 39 Decachlorodiphenyl Ether	15.704	15.699	(1.000)	8375510656	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071409b.d

Calibration Time: 19:02

Lab Smp Id: 0907047A-01A

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8415739331	4207869665	16831478662	8376027520	-0.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.70	15.20	16.20	15.70	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.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071409ab.d

Calibration Time: 18:36

Lab Smp Id: 0907047A-01A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	8100028078	4050014039	16200056156	8375510656	3.40

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.70	15.20	16.20	15.70	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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0907047A-01A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4544	75.73	60-120
\$ 28 DCB	0.6000	0.4279	71.32	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0907047A-01A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.498	82.92	60-120
\$ 38 DCB	0.600	0.496	82.65	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071409b.d

Date : 14-JUL-2009 21:33

Client ID:

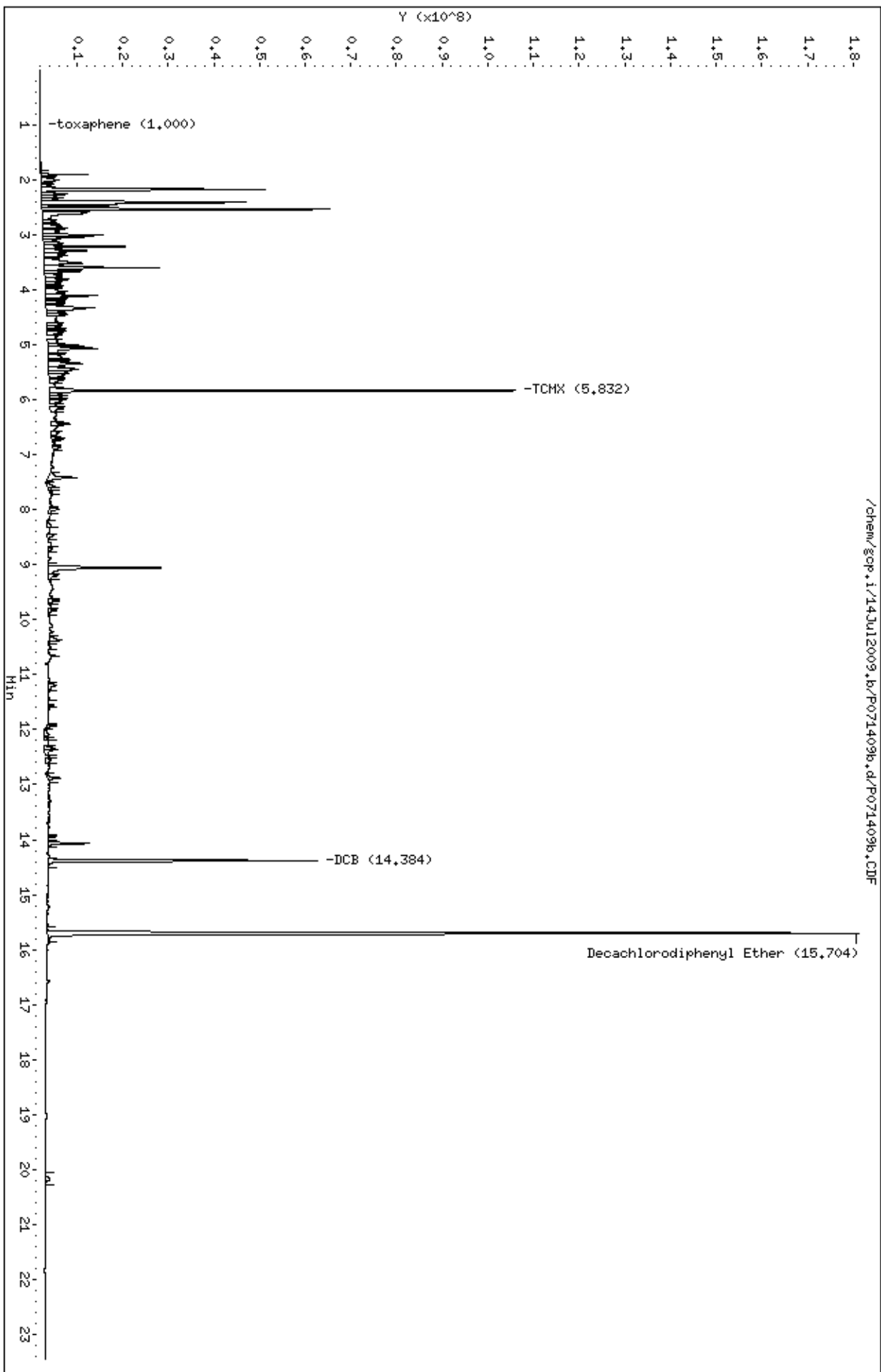
Sample Info:

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Data File: /chem/gcp,i/14Jul2009,b/P071409ab.d

Date : 14-JUL-2009 21:33

Client ID:

Sample Info:

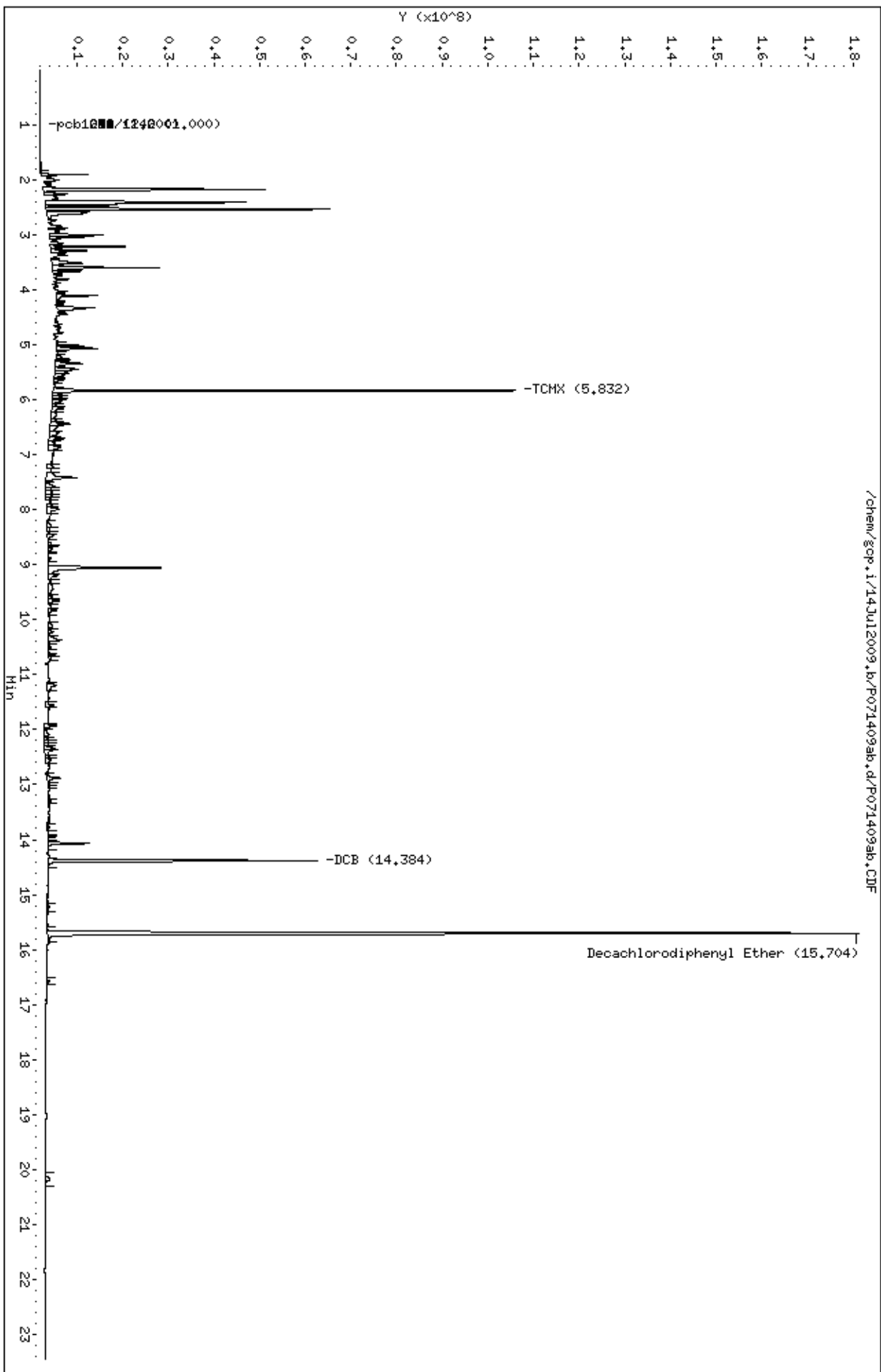
Column phase:

Instrument: gcp,i

Operator: m

Column diameter: 2.00

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF04-063009

Lab ID#: 0907047A-04A

No Detections Were Found.

Client Sample ID: OFF04-063009

Lab ID#: 0907047A-04A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	P071410	Date of Collection: 6/30/09 4:15:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/14/09 02:59 PM
		Date of Extraction: 7/6/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0016	Not Detected	Not Detected
alpha-BHC	0.10	0.0016	Not Detected	Not Detected
beta-BHC	0.10	0.0016	Not Detected	Not Detected
delta-BHC	0.10	0.0016	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0016	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0016	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0016	Not Detected	Not Detected
4,4'-DDD	0.10	0.0016	Not Detected	Not Detected
4,4'-DDE	0.10	0.0016	Not Detected	Not Detected
4,4'-DDT	0.10	0.0016	Not Detected	Not Detected
Dieldrin	0.10	0.0016	Not Detected	Not Detected
Endosulfan I	0.10	0.0016	Not Detected	Not Detected
Endosulfan II	0.10	0.0016	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0016	Not Detected	Not Detected
Endrin	0.10	0.0016	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0016	Not Detected	Not Detected
Endrin Ketone	0.10	0.0016	Not Detected	Not Detected
Heptachlor	0.10	0.0016	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0016	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.016	Not Detected	Not Detected
Toxaphene	1.0	0.016	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.016	Not Detected	Not Detected
Aroclor-1221	1.0	0.016	Not Detected	Not Detected
Aroclor-1232	1.0	0.016	Not Detected	Not Detected
Aroclor-1248	1.0	0.016	Not Detected	Not Detected
Aroclor-1254	1.0	0.016	Not Detected	Not Detected
Aroclor-1260	1.0	0.016	Not Detected	Not Detected

Air Sample Volume(L): 64000

Aroclors are reported from file p071410a.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	80	60-120
Decachlorobiphenyl	75	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071410.d
Lab Smp Id: 0907047A-04A
Inj Date : 14-JUL-2009 21:59
Operator : rnInst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD
Cal Date : 19-MAY-2009 20:37Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====		==	=====	=====	=====	=====	=====
\$	2 TCMX	6.010	6.011	(0.352)	8791945318	0.48264	0.4826
M	3 toxaphene	Compound Not Detected.					
	4 toxaphene-1	Compound Not Detected.					
	5 toxaphene-2	Compound Not Detected.					
	6 toxaphene-3	Compound Not Detected.					
	7 toxaphene-4	Compound Not Detected.					
	8 a-BHC	Compound Not Detected.					
	9 g-BHC	Compound Not Detected.					
	10 b-BHC	Compound Not Detected.					
	11 d-BHC	Compound Not Detected.					
	12 Heptachlor	Compound Not Detected.					
	13 Aldrin	Compound Not Detected.					
	14 Heptachlor Epoxide	Compound Not Detected.					
	15 g-Chlordane	Compound Not Detected.					
	16 a-Chlordane	Compound Not Detected.					
	17 Endosulfan I	Compound Not Detected.					
	18 DDE	Compound Not Detected.					
	19 Dieldrin	Compound Not Detected.					
	20 Endrin	Compound Not Detected.					
	21 DDD	Compound Not Detected.					
	22 Endosulfan II	Compound Not Detected.					

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
23 DDT				Compound Not Detected.		
24 Endrin Aldehyde				Compound Not Detected.		
25 Endosulfan Sulfate				Compound Not Detected.		
26 Methoxychlor				Compound Not Detected.		
169 Mirex				Compound Not Detected.		
27 Endrin Ketone				Compound Not Detected.		
\$ 28 DCB	15.405	15.404	(0.902)	5173027304	0.45012	0.4501
* 29 Decachlorodiphenyl Ether	17.077	17.076	(1.000)	18810079248	2.00000	

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL) (ug)
=====		==	=====	=====	=====	=====
	17 pcb1221-4	Compound Not Detected.				
M	18 pcb1232	Compound Not Detected.				
	19 pcb1232-1	Compound Not Detected.				
	20 pcb1232-2	Compound Not Detected.				
	21 pcb1232-3	Compound Not Detected.				
	22 pcb1232-4	Compound Not Detected.				
M	28 pcb1248	Compound Not Detected.				
	29 pcb1248-1	Compound Not Detected.				
	30 pcb1248-2	Compound Not Detected.				
	31 pcb1248-3	Compound Not Detected.				
	32 pcb1248-4	Compound Not Detected.				
M	33 pcb1254	Compound Not Detected.				
	34 pcb1254-1	Compound Not Detected.				
	35 pcb1254-2	Compound Not Detected.				
	36 pcb1254-3	Compound Not Detected.				
	37 pcb1254-4	Compound Not Detected.				
\$	38 DCB	15.405	15.403	(0.902)	4838565077	0.49796 0.498
*	39 Decachlorodiphenyl Ether	17.077	17.074	(1.000)	18553605136	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071410.d

Calibration Time: 19:02

Lab Smp Id: 0907047A-04A

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	19850667168	9925333584	39701334336	18810079248	-5.24
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	17.08	16.58	17.58	17.08	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: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071410a.d

Calibration Time: 18:36

Lab Smp Id: 0907047A-04A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	18648773486	9324386743	37297546971	18553605136	-0.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.07	16.57	17.57	17.08	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:

Sample Matrix: GAS

Lab Smp Id: 0907047A-04A

Level: LOW

Data Type: GC DATA

SpikeList File:

Sublist File: all.sub

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

Client SDG: 14Jul2009

Fraction:

Operator: rn

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4826	80.44	60-120
\$ 28 DCB	0.6000	0.4501	75.02	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0907047A-04A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.528	87.98	60-120
\$ 38 DCB	0.600	0.498	82.99	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071410.d

Date : 14-JUL-2009 21:59

Client ID:

Sample Info:

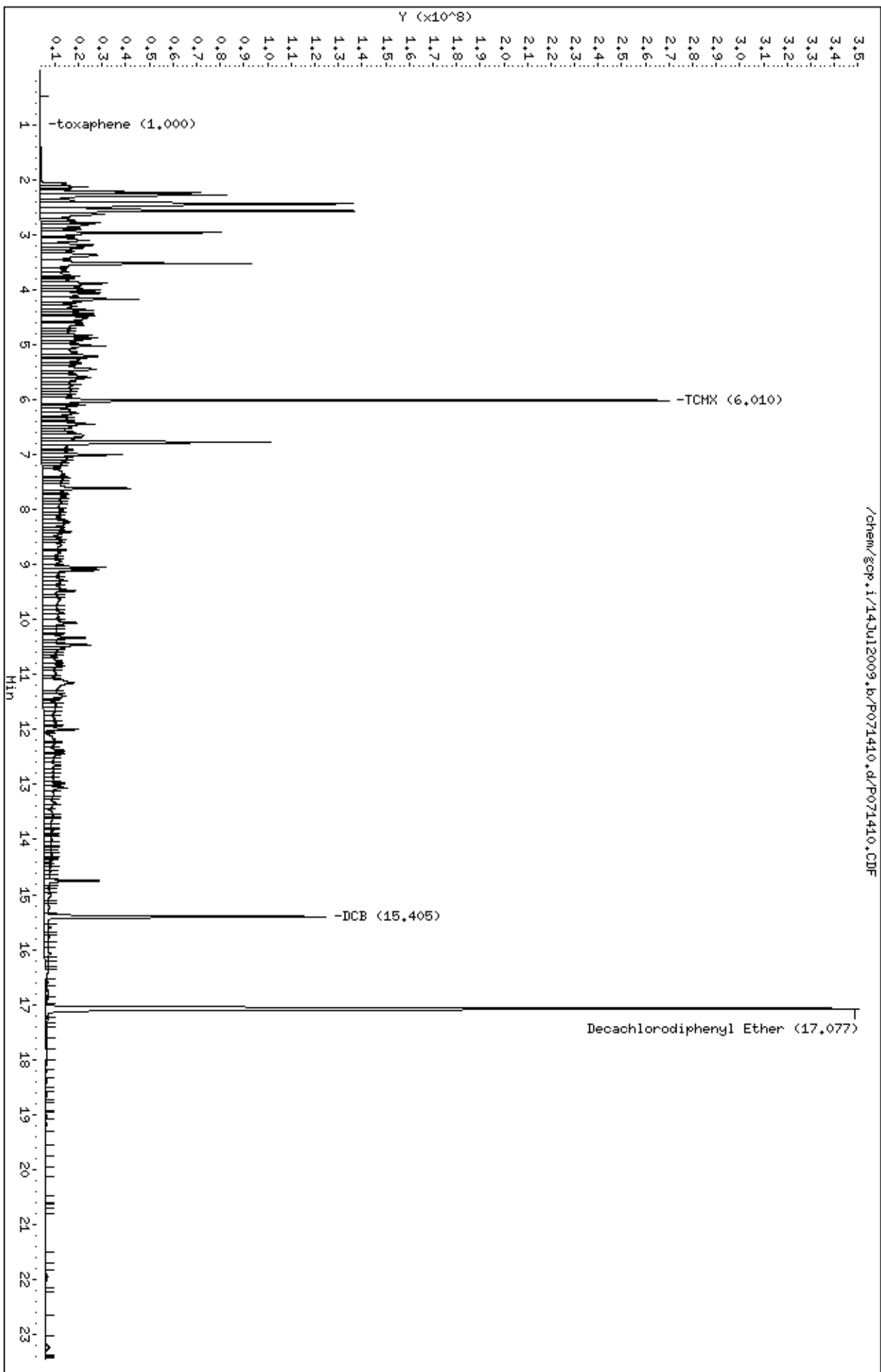
Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00

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Data File: /chem/gcp.i/14Jul2009.b/P071410a.d

Date : 14-JUL-2009 21:59

Client ID:

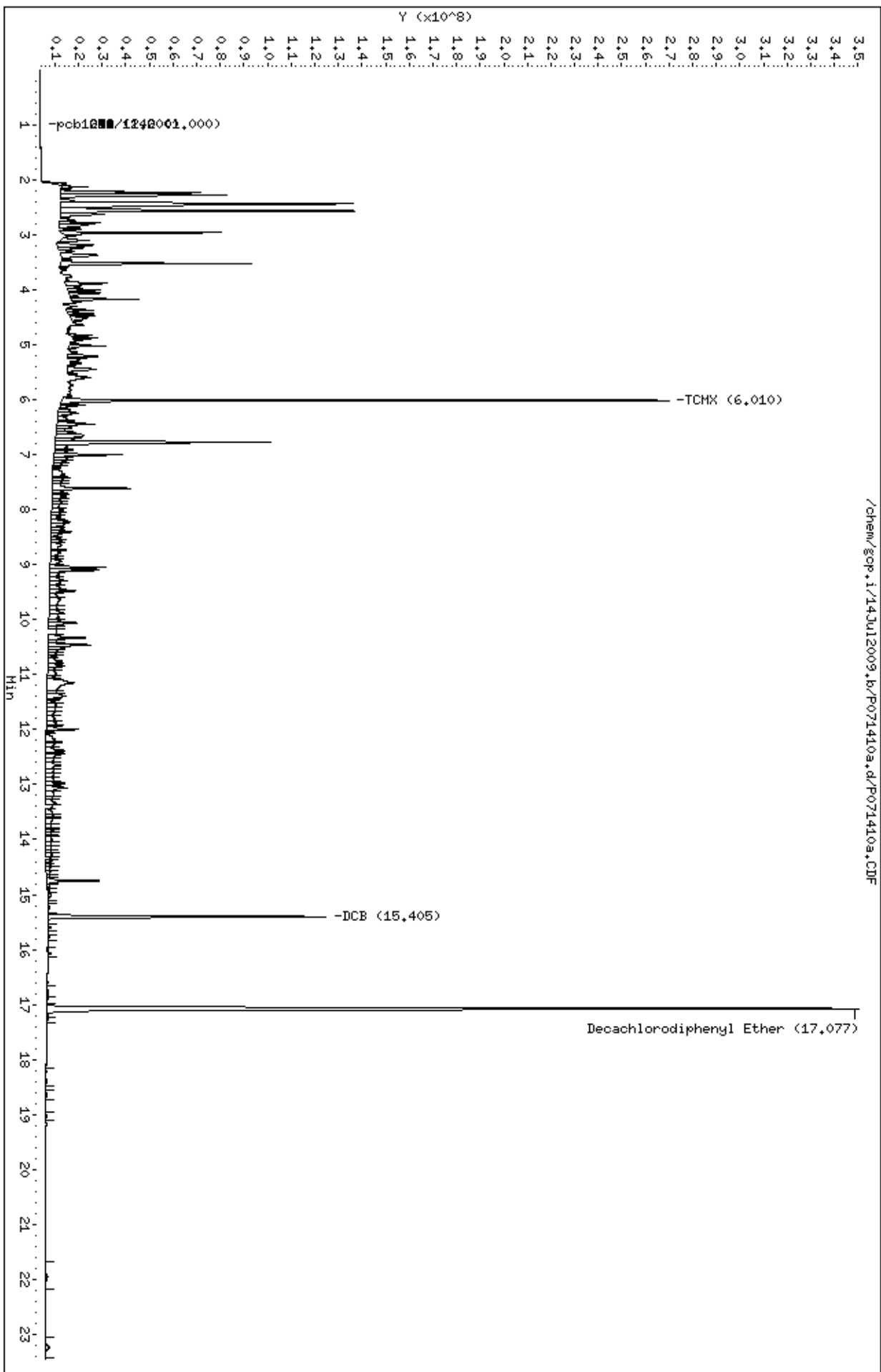
Sample Info:

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071410b.d
Lab Smp Id: 0907047A-04A
Inj Date : 14-JUL-2009 21:59
Operator : rnInst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.832	5.831	(0.371)	3347159506	0.51046	0.5104
M 3 toxaphene		Compound Not Detected.					
4 toxaphene-1		Compound Not Detected.					
5 toxaphene-2		Compound Not Detected.					
6 toxaphene-3		Compound Not Detected.					
7 toxaphene-4		Compound Not Detected.					
8 a-BHC		Compound Not Detected.					
9 g-BHC		Compound Not Detected.					
10 b-BHC		Compound Not Detected.					
11 d-BHC		Compound Not Detected.					
12 Heptachlor		Compound Not Detected.					
13 Aldrin		Compound Not Detected.					
14 Heptachlor Epoxide		Compound Not Detected.					
15 g-Chlordane		Compound Not Detected.					
16 a-Chlordane		Compound Not Detected.					
17 DDE		Compound Not Detected.					
18 Endosulfan I		Compound Not Detected.					
19 Dieldrin		Compound Not Detected.					
20 Endrin		Compound Not Detected.					
21 DDD		Compound Not Detected.					
22 Endosulfan II		Compound Not Detected.					

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
23 DDT		Compound Not Detected.				
24 Endrin Aldehyde		Compound Not Detected.				
25 Methoxychlor		Compound Not Detected.				
168 Mirex		Compound Not Detected.				
26 Endosulfan Sulfate		Compound Not Detected.				
27 Endrin Ketone		Compound Not Detected.				
\$ 28 DCB	14.383	14.381	(0.916)	2247137519	0.42911	0.4291
* 29 Decachlorodiphenyl Ether	15.702	15.701	(1.000)	8320030080	2.00000	

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
	17 pcb1221-4	Compound Not Detected.					
M	18 pcb1232	Compound Not Detected.					
	19 pcb1232-1	Compound Not Detected.					
	20 pcb1232-2	Compound Not Detected.					
	21 pcb1232-3	Compound Not Detected.					
	22 pcb1232-4	Compound Not Detected.					
M	28 pcb1248	Compound Not Detected.					
	29 pcb1248-1	Compound Not Detected.					
	30 pcb1248-2	Compound Not Detected.					
	31 pcb1248-3	Compound Not Detected.					
	32 pcb1248-4	Compound Not Detected.					
M	33 pcb1254	Compound Not Detected.					
	34 pcb1254-1	Compound Not Detected.					
	35 pcb1254-2	Compound Not Detected.					
	36 pcb1254-3	Compound Not Detected.					
	37 pcb1254-4	Compound Not Detected.					
\$	38 DCB	14.383	14.380	(0.916)	2350509207	0.52209	0.522
*	39 Decachlorodiphenyl Ether	15.702	15.699	(1.000)	8301900426	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071410b.d

Calibration Time: 19:02

Lab Smp Id: 0907047A-04A

Analysis Type: Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8415739331	4207869665	16831478662	8320030080	-1.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.70	15.20	16.20	15.70	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: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071410ab.d

Calibration Time: 18:36

Lab Smp Id: 0907047A-04A

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	8100028078	4050014039	16200056156	8301900426	2.49

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.70	15.20	16.20	15.70	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: 14Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0907047A-04A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.5104	85.08	60-120
\$ 28 DCB	0.6000	0.4291	71.52	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0907047A-04A	
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.514	85.64	60-120
\$ 38 DCB	0.600	0.522	87.02	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071410b.d

Date : 14-JUL-2009 21:59

Client ID:

Sample Info:

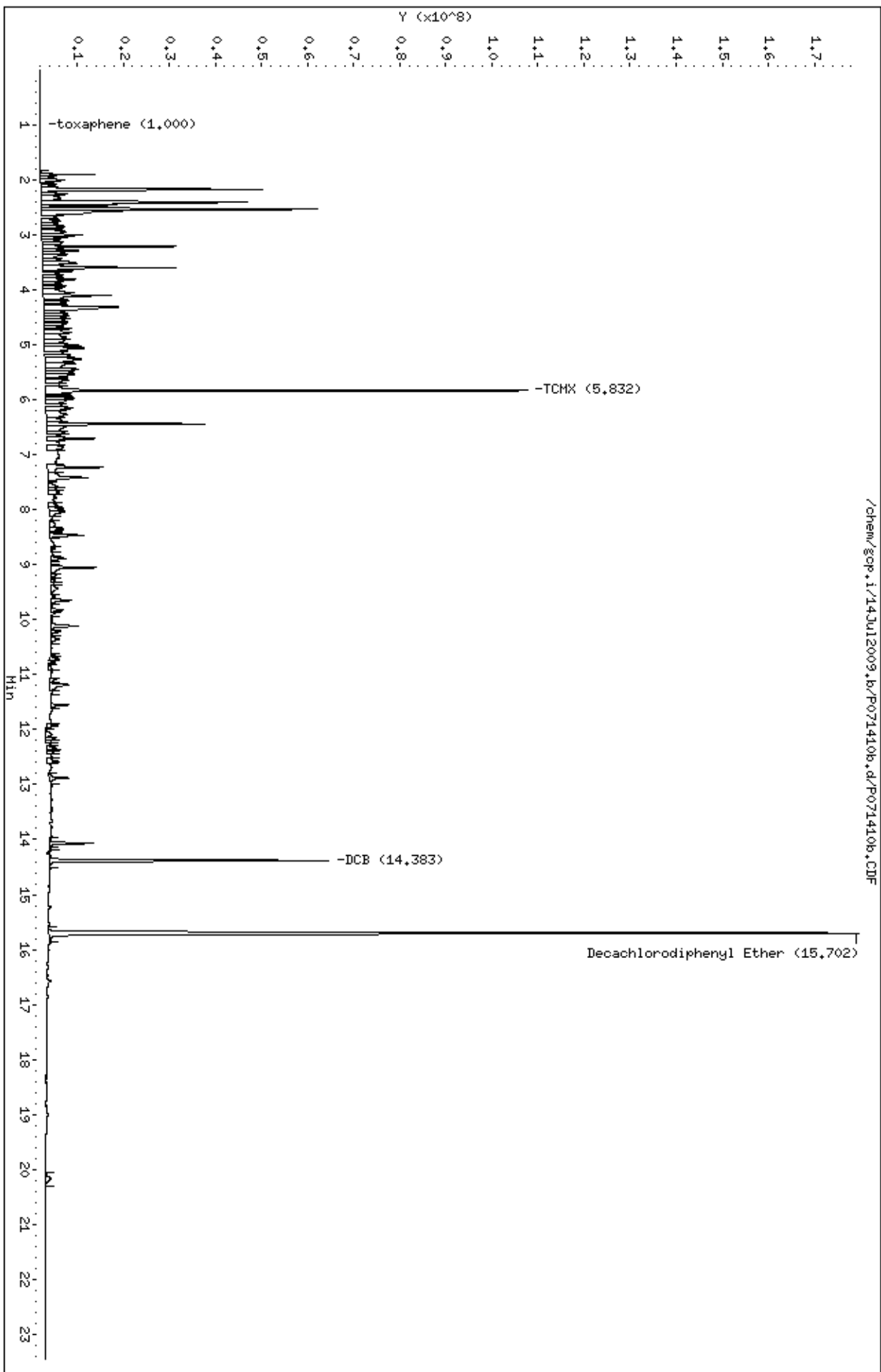
Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00

Page 1



Data File: /chem/gcp,i/14Jul2009,b/P071410ab.d

Date : 14-JUL-2009 21:59

Client ID:

Sample Info:

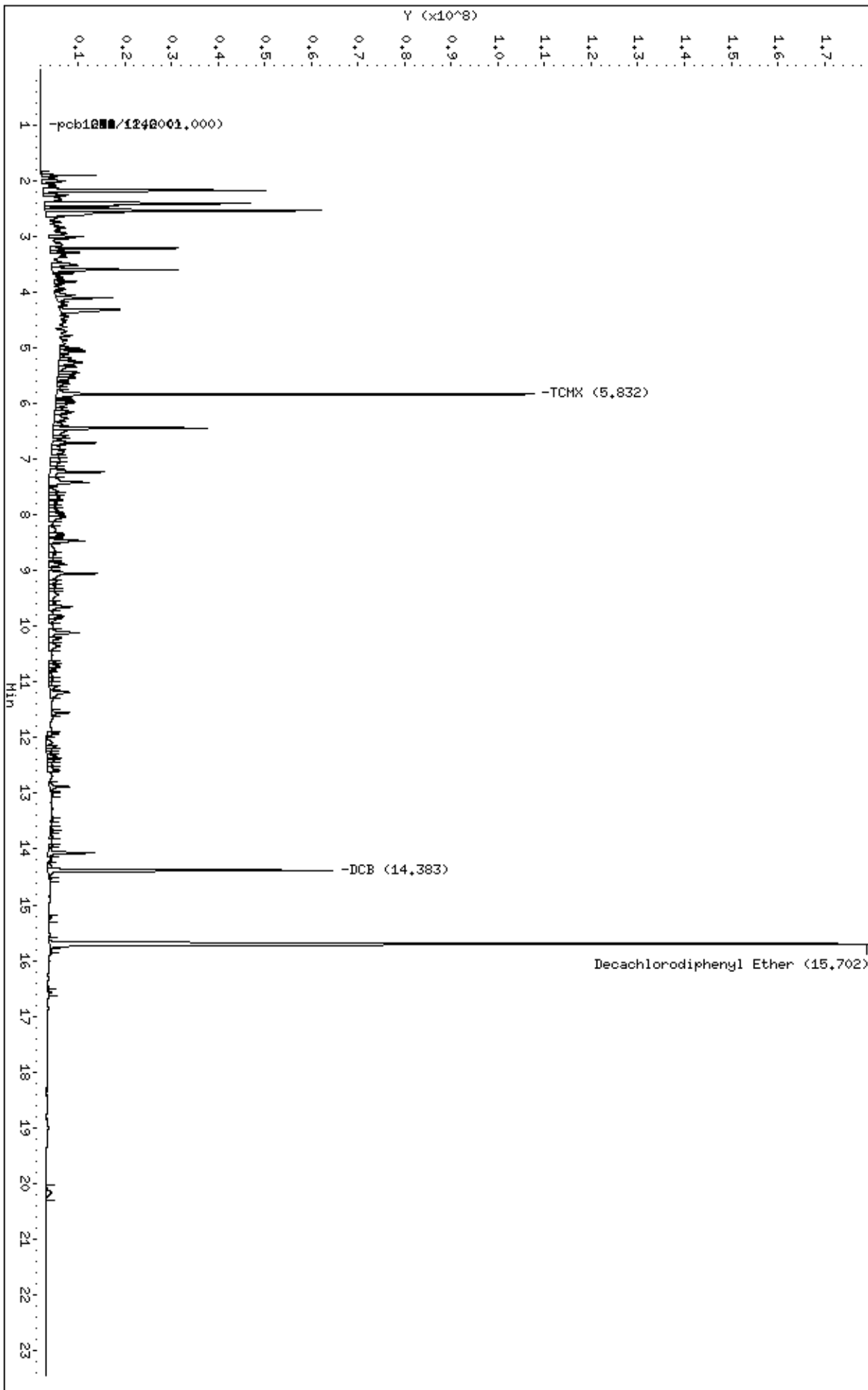
Column phase:

Instrument: gcp,i

Operator: m

Column diameter: 2.00

/chem/gcp,i/14Jul2009,b/P071410ab.d/P071410ab.CDF



QC Results and Raw Data

Client Sample ID: Lab Blank

Lab ID#: 0907047A-05A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	P071406	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/14/09 01:12 PM
		Date of Extraction: 7/6/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0014	Not Detected	Not Detected
alpha-BHC	0.10	0.0014	Not Detected	Not Detected
beta-BHC	0.10	0.0014	Not Detected	Not Detected
delta-BHC	0.10	0.0014	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0014	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0014	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0014	Not Detected	Not Detected
4,4'-DDD	0.10	0.0014	Not Detected	Not Detected
4,4'-DDE	0.10	0.0014	Not Detected	Not Detected
4,4'-DDT	0.10	0.0014	Not Detected	Not Detected
Dieldrin	0.10	0.0014	Not Detected	Not Detected
Endosulfan I	0.10	0.0014	Not Detected	Not Detected
Endosulfan II	0.10	0.0014	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0014	Not Detected	Not Detected
Endrin	0.10	0.0014	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0014	Not Detected	Not Detected
Endrin Ketone	0.10	0.0014	Not Detected	Not Detected
Heptachlor	0.10	0.0014	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0014	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.014	Not Detected	Not Detected
Toxaphene	1.0	0.014	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.014	Not Detected	Not Detected
Aroclor-1221	1.0	0.014	Not Detected	Not Detected
Aroclor-1232	1.0	0.014	Not Detected	Not Detected
Aroclor-1248	1.0	0.014	Not Detected	Not Detected
Aroclor-1254	1.0	0.014	Not Detected	Not Detected
Aroclor-1260	1.0	0.014	Not Detected	Not Detected

Air Sample Volume(L): 70000

Aroclors are reported from file p071406a.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	84	60-120
Decachlorobiphenyl	68	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071406.d

Lab Smp Id: 0907047A

Client Smp ID: Lab Blank

Inj Date : 14-JUL-2009 20:12

Operator : rn

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/14Jul2009.b/p0910519.m

Meth Date : 14-Jul-2009 15:37 lzhang

Quant Type: ISTD

Cal Date : 19-MAY-2009 20:37

Cal File: P051912.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all.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	REL RT	RESPONSE	(ug)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.025	6.011	(0.352)	9105179276	0.50366	0.5036
M 3 toxaphene		Compound Not Detected.					
4 toxaphene-1		Compound Not Detected.					
5 toxaphene-2		Compound Not Detected.					
6 toxaphene-3		Compound Not Detected.					
7 toxaphene-4		Compound Not Detected.					
8 a-BHC		Compound Not Detected.					
9 g-BHC		Compound Not Detected.					
10 b-BHC		Compound Not Detected.					
11 d-BHC		Compound Not Detected.					
12 Heptachlor		Compound Not Detected.					
13 Aldrin		Compound Not Detected.					
14 Heptachlor Epoxide		Compound Not Detected.					
15 g-Chlordane		Compound Not Detected.					
16 a-Chlordane		Compound Not Detected.					
17 Endosulfan I		Compound Not Detected.					
18 DDE		Compound Not Detected.					
19 Dieldrin		Compound Not Detected.					
20 Endrin		Compound Not Detected.					
21 DDD		Compound Not Detected.					
22 Endosulfan II		Compound Not Detected.					

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE		(ug)	(ug)
=====	==	=====	=====	=====		=====	=====
23 DDT		Compound Not Detected.					
24 Endrin Aldehyde		Compound Not Detected.					
25 Endosulfan Sulfate		Compound Not Detected.					
26 Methoxychlor		Compound Not Detected.					
169 Mirex		Compound Not Detected.					
27 Endrin Ketone		Compound Not Detected.					
\$ 28 DCB	15.418	15.404	(0.902)	4670465670		0.40950	0.4095
* 29 Decachlorodiphenyl Ether	17.094	17.076	(1.000)	18667193048		2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071406a.d

Lab Smp Id: 0907047A

Client Smp ID: Lab Blank

Inj Date : 14-JUL-2009 20:12

Operator : rn

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/14Jul2009.b/p09p0522.m

Meth Date : 14-Jul-2009 15:38 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 19:06

Cal File: P052203.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all_42.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.025	6.009	(0.352)	8718434061	0.60494	0.605
M 3 pcb1016/1242		Compound Not Detected.					
4 pcb1016/1242-1		Compound Not Detected.					
5 pcb1016/1242-2		Compound Not Detected.					
6 pcb1016/1242-3		Compound Not Detected.					
7 pcb1016/1242-4		Compound Not Detected.					
M 8 pcb1260		Compound Not Detected.					
9 pcb1260-1		Compound Not Detected.					
10 pcb1260-2		Compound Not Detected.					
11 pcb1260-3		Compound Not Detected.					
12 pcb1260-4		Compound Not Detected.					
M 13 pcb1221		Compound Not Detected.					
14 pcb1221-1		Compound Not Detected.					
15 pcb1221-2		Compound Not Detected.					
16 pcb1221-3		Compound Not Detected.					

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====	==	=====	=====	=====	=====	=====
17 pcb1221-4		Compound	Not	Detected.		
M 18 pcb1232		Compound	Not	Detected.		
19 pcb1232-1		Compound	Not	Detected.		
20 pcb1232-2		Compound	Not	Detected.		
21 pcb1232-3		Compound	Not	Detected.		
22 pcb1232-4		Compound	Not	Detected.		
M 28 pcb1248		Compound	Not	Detected.		
29 pcb1248-1		Compound	Not	Detected.		
30 pcb1248-2		Compound	Not	Detected.		
31 pcb1248-3		Compound	Not	Detected.		
32 pcb1248-4		Compound	Not	Detected.		
M 33 pcb1254		Compound	Not	Detected.		
34 pcb1254-1		Compound	Not	Detected.		
35 pcb1254-2		Compound	Not	Detected.		
36 pcb1254-3		Compound	Not	Detected.		
37 pcb1254-4		Compound	Not	Detected.		
\$ 38 DCB	15.418	15.403	(0.902)	4547899709	0.46976	0.470
* 39 Decachlorodiphenyl Ether	17.094	17.074	(1.000)	18485871910	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071406.d

Calibration Time: 19:02

Lab Smp Id: 0907047A

Client Smp ID: Lab Blank

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19850667168	9925333584	39701334336	18667193048	-5.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.08	16.58	17.58	17.09	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: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071406a.d

Calibration Time: 18:36

Lab Smp Id: 0907047A

Client Smp ID: Lab Blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	18648773486	9324386743	37297546971	18485871910	-0.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.07	16.57	17.57	17.09	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.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0907047A	Client Smp ID: Lab Blank
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.5036	83.94	60-120
\$ 28 DCB	0.6000	0.4095	68.25	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0907047A	Client Smp ID: Lab Blank
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File: LCS10.spk	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.605	100.82	60-120
\$ 38 DCB	0.600	0.470	78.29	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071406.d

Date : 14-JUL-2009 20:12

Client ID: Lab Blank

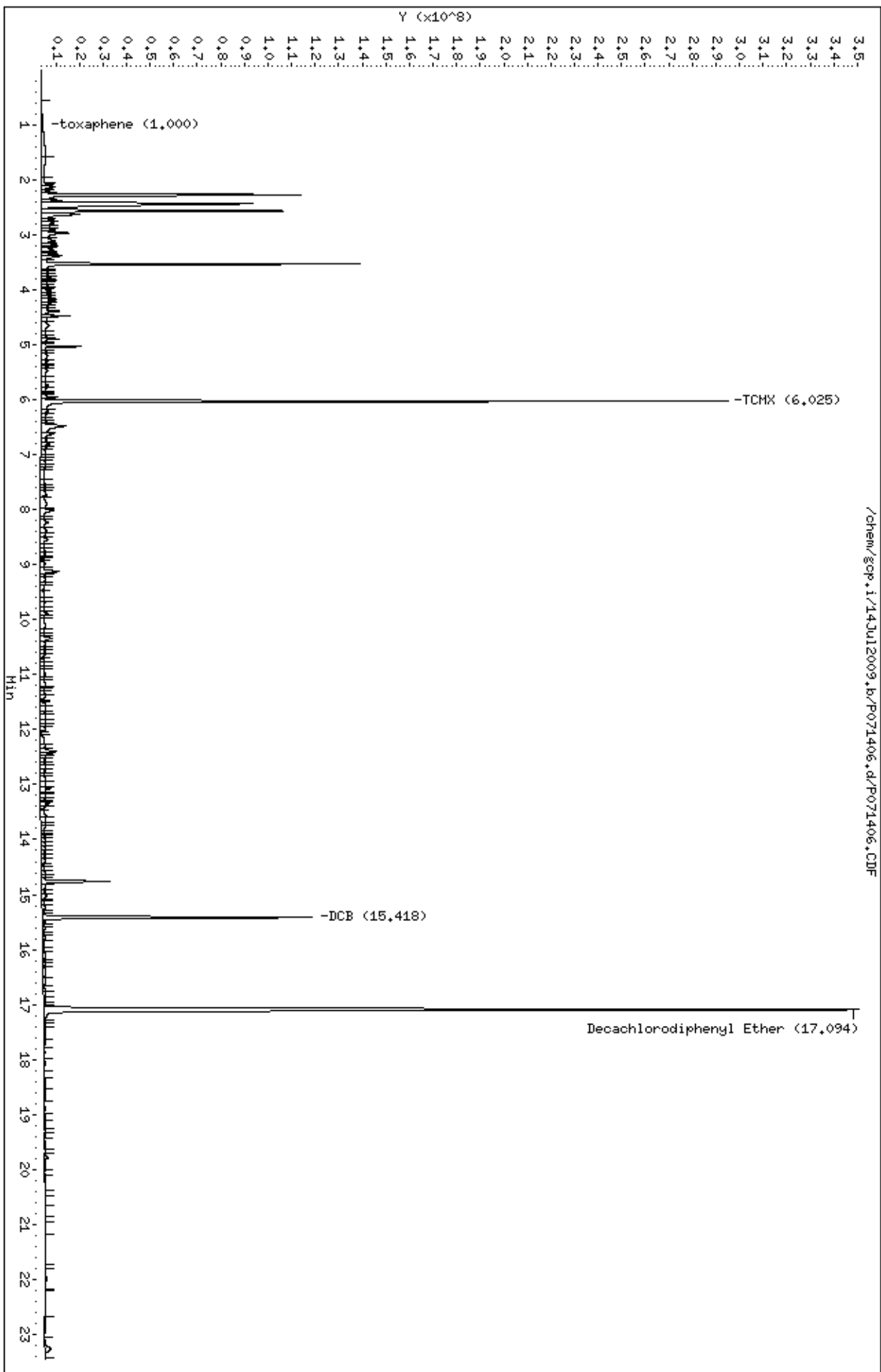
Sample Info:

Instrument: gcp.i

Operator: m

Column diameter: 2.00

Column phase:



Data File: /chem/gcp.i/14Jul2009.b/P071406a.d

Date : 14-JUL-2009 20:12

Client ID: Lab Blank

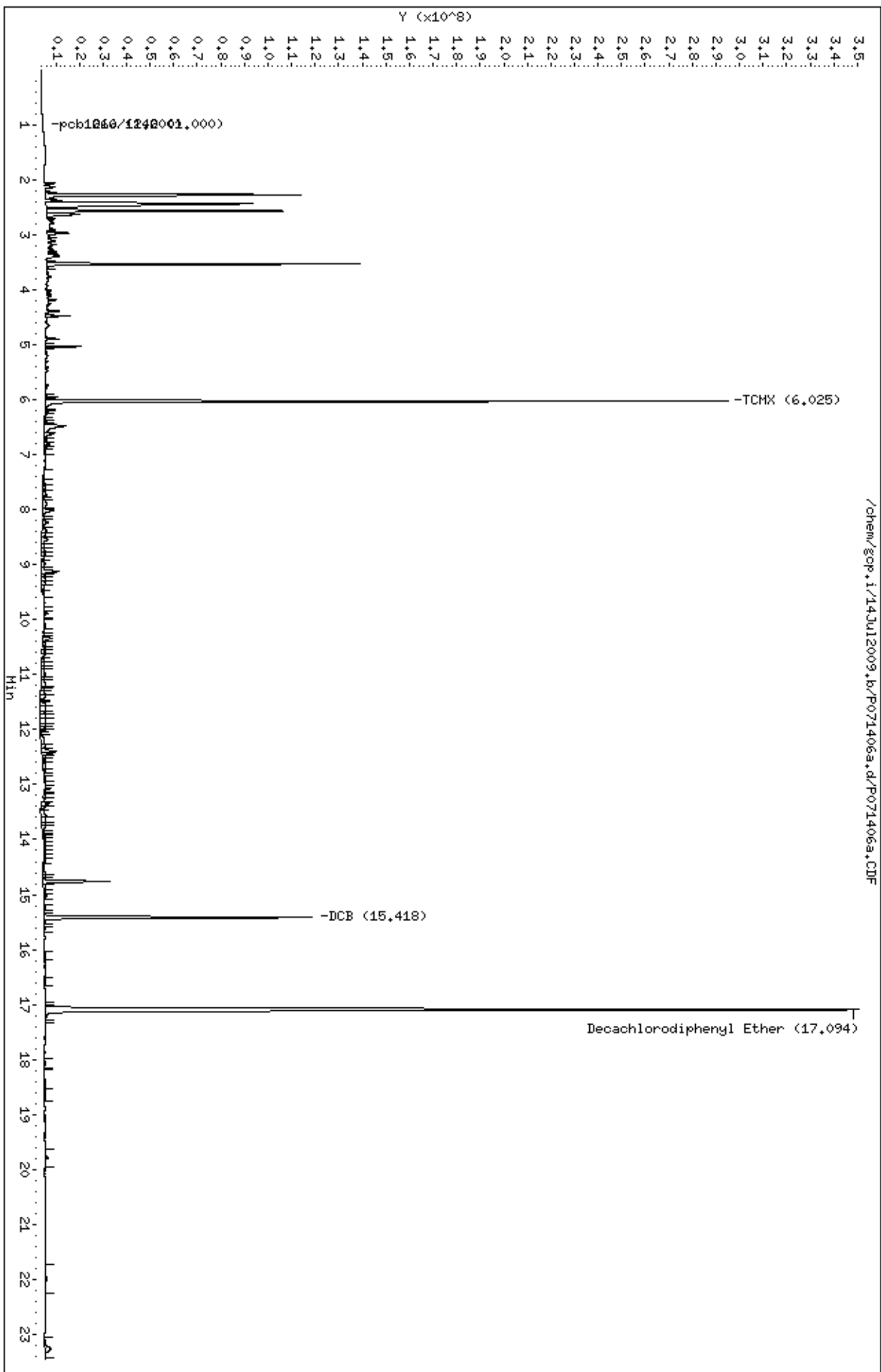
Sample Info:

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071406b.d

Lab Smp Id: 0907047A

Client Smp ID: Lab Blank

Inj Date : 14-JUL-2009 20:12

Operator : rn

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Back column, Rtx-CLPesticides

Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Meth Date : 14-Jul-2009 15:37 lzhang

Quant Type: ISTD

Cal Date : 19-MAY-2009 20:37

Cal File: P051912b.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all.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	REL RT	RESPONSE	
		(ug)				(ug)
=====		==	=====	=====	=====	=====
\$	2 TCMX	5.823	5.831	(0.371)	3072521910	0.48462
M	3 toxaphene	Compound Not Detected.				
	4 toxaphene-1	Compound Not Detected.				
	5 toxaphene-2	Compound Not Detected.				
	6 toxaphene-3	Compound Not Detected.				
	7 toxaphene-4	Compound Not Detected.				
	8 a-BHC	Compound Not Detected.				
	9 g-BHC	Compound Not Detected.				
	10 b-BHC	Compound Not Detected.				
	11 d-BHC	Compound Not Detected.				
	12 Heptachlor	Compound Not Detected.				
	13 Aldrin	Compound Not Detected.				
	14 Heptachlor Epoxide	Compound Not Detected.				
	15 g-Chlordane	Compound Not Detected.				
	16 a-Chlordane	Compound Not Detected.				
	17 DDE	Compound Not Detected.				
	18 Endosulfan I	Compound Not Detected.				
	19 Dieldrin	Compound Not Detected.				
	20 Endrin	Compound Not Detected.				
	21 DDD	Compound Not Detected.				
	22 Endosulfan II	Compound Not Detected.				

Compounds	CONCENTRATIONS					
	ON-COLUMN			FINAL		
	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
23 DDT	Compound Not Detected.					
24 Endrin Aldehyde	Compound Not Detected.					
25 Methoxychlor	Compound Not Detected.					
168 Mirex	Compound Not Detected.					
26 Endosulfan Sulfate	Compound Not Detected.					
27 Endrin Ketone	Compound Not Detected.					
\$ 28 DCB	14.381	14.381	(0.916)	2160309609	0.42666	0.4267
* 29 Decachlorodiphenyl Ether	15.702	15.701	(1.000)	8044522210	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071406ab.d

Lab Smp Id: 0907047A

Client Smp ID: Lab blank

Inj Date : 14-JUL-2009 20:12

Operator : rn

Inst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Meth Date : 14-Jul-2009 15:38 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214b.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all_42.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.823	5.829	(0.371)	3087408309	0.55625	0.556
M 3 pcb1016/1242		Compound Not Detected.					
4 pcb1016/1242-1		Compound Not Detected.					
5 pcb1016/1242-2		Compound Not Detected.					
6 pcb1016/1242-3		Compound Not Detected.					
7 pcb1016/1242-4		Compound Not Detected.					
M 8 pcb1260		Compound Not Detected.					
9 pcb1260-1		Compound Not Detected.					
10 pcb1260-2		Compound Not Detected.					
11 pcb1260-3		Compound Not Detected.					
12 pcb1260-4		Compound Not Detected.					
M 13 pcb1221		Compound Not Detected.					
14 pcb1221-1		Compound Not Detected.					
15 pcb1221-2		Compound Not Detected.					
16 pcb1221-3		Compound Not Detected.					

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
	17 pcb1221-4	Compound Not Detected.					
M	18 pcb1232	Compound Not Detected.					
	19 pcb1232-1	Compound Not Detected.					
	20 pcb1232-2	Compound Not Detected.					
	21 pcb1232-3	Compound Not Detected.					
	22 pcb1232-4	Compound Not Detected.					
M	28 pcb1248	Compound Not Detected.					
	29 pcb1248-1	Compound Not Detected.					
	30 pcb1248-2	Compound Not Detected.					
	31 pcb1248-3	Compound Not Detected.					
	32 pcb1248-4	Compound Not Detected.					
M	33 pcb1254	Compound Not Detected.					
	34 pcb1254-1	Compound Not Detected.					
	35 pcb1254-2	Compound Not Detected.					
	36 pcb1254-3	Compound Not Detected.					
	37 pcb1254-4	Compound Not Detected.					
\$	38 DCB	14.381	14.380	(0.916)	2195691786	0.50780	0.508
*	39 Decachlorodiphenyl Ether	15.702	15.699	(1.000)	7973354763	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071406b.d

Calibration Time: 19:02

Lab Smp Id: 0907047A

Client Smp ID: Lab Blank

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8415739331	4207869665	16831478662	8044522210	-4.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.70	15.20	16.20	15.70	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: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071406ab.d

Calibration Time: 18:36

Lab Smp Id: 0907047A

Client Smp ID: Lab blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	8100028078	4050014039	16200056156	7973354763	-1.56
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	15.70	15.20	16.20	15.70	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: 14Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0907047A	Client Smp ID: Lab Blank
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File:	Quant Type: ISTD
Sublist File: all.sub	
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.4846	80.77	60-120
\$ 28 DCB	0.6000	0.4267	71.11	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 0907047A	Client Smp ID: Lab blank
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: SAMPLE
SpikeList File: LCS10.spk	Quant Type: ISTD
Sublist File: all_42.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m	
Misc Info: None	

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.600	0.556	92.71	60-120
\$ 38 DCB	0.600	0.508	84.63	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071406b.d

Date : 14-JUL-2009 20:12

Client ID: Lab Blank

Sample Info:

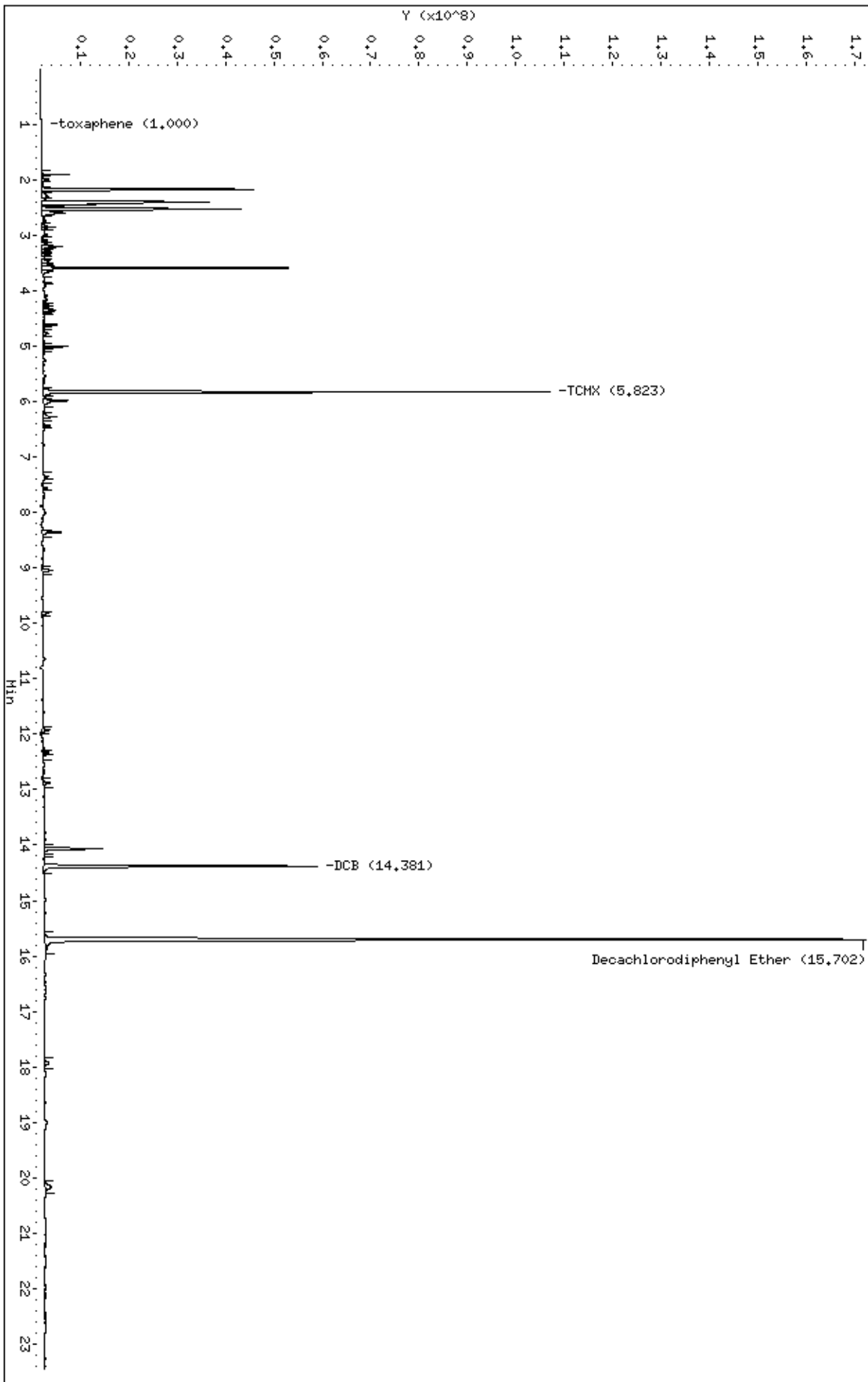
Instrument: gcp.i

Operator: m

Column diameter: 2.00

Column phase:

/chem/gcp.i/14Jul2009.b/P071406b.d/P071406b.CDF



Data File: /chem/gcp.i/14Jul2009.b/P071406ab.d

Date : 14-JUL-2009 20:12

Client ID: Lab blank

Sample Info:

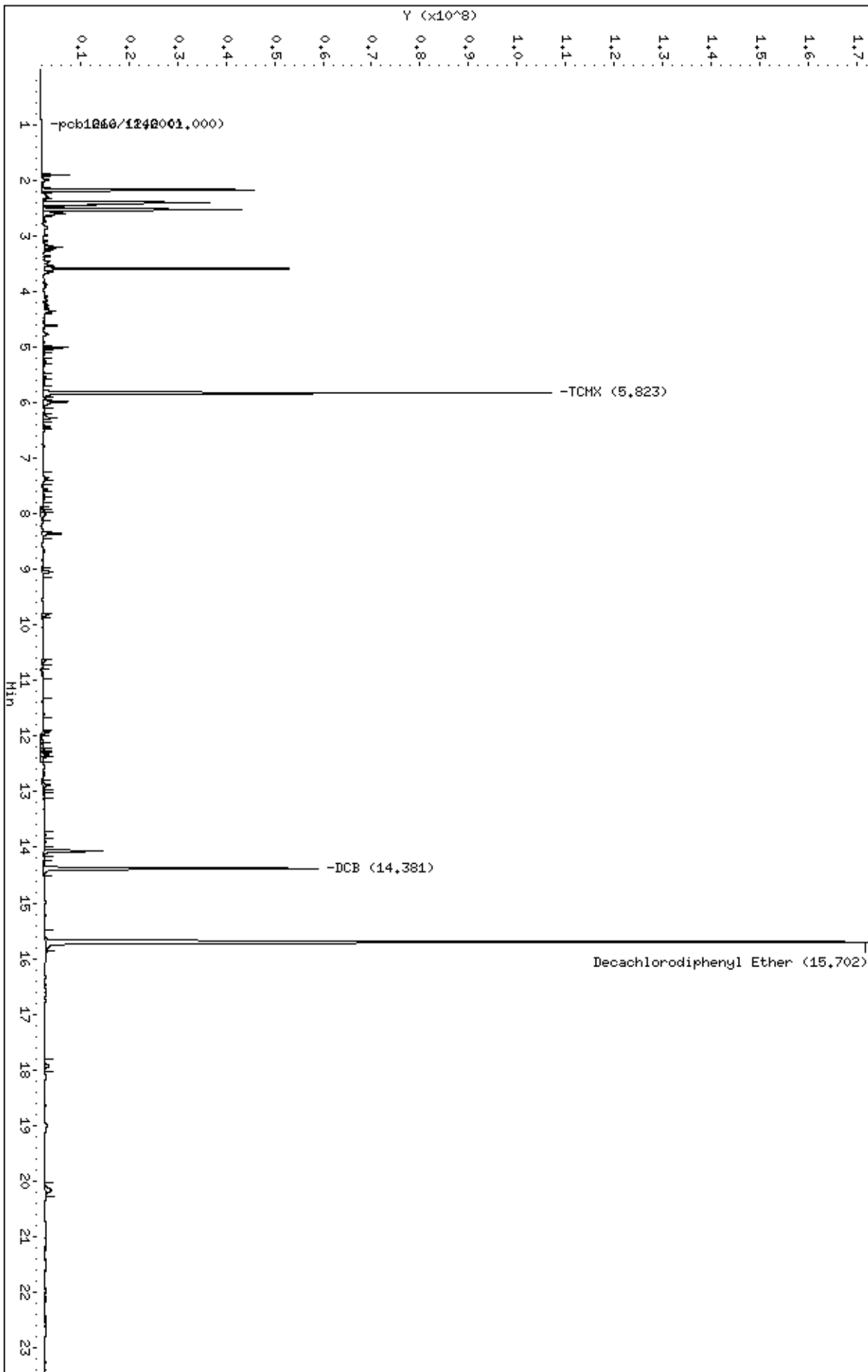
Instrument: gcp.i

Operator: m

Column diameter: 2.00

Column phase:

/chem/gcp.i/14Jul2009.b/P071406ab.d/P071406ab.CDF



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-4A GC/ECD

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0907047A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT
		Decachlorobiphenyl	#	2,4,5,6-Tetrachloro- m-xylene	#		#		
01	OFF03-063009	74		76					0
02	OFF04-063009	75		80					0
03	Lab Blank	68		84					0
04	LCS	69		76					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

Decachlorobiphenyl 60 - 120

2,4,5,6-Tetrachloro-m-xylene 60 - 120

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
 End Cal Date : 19-MAY-2009 20:37
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem/gcp.i/19May2009.b/p0910519.m
 Cal Date : 20-May-2009 08:19 lantonic
 Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	RRF	% RSD
	2.500 Level 7							
10 b-BHC	1.22417	1.12320	1.12343	1.02994	1.01921	1.00999		
	0.95026						1.06860	8.675
11 d-BHC	2.60102	2.42295	2.53904	2.33826	2.34972	2.34578		
	2.25851						2.40790	5.062
12 Heptachlor	2.84736	2.68096	2.53886	2.31490	2.20378	2.13543		
	1.81222						2.36193	14.963
13 Aldrin	2.69177	2.50408	2.46999	2.23588	2.18770	2.13954		
	1.87800						2.30099	11.830
14 Heptachlor Epoxide	2.37477	2.18690	2.13545	1.90885	1.85999	1.81902		
	1.58666						1.98166	13.397
15 g-Chlordane	2.40318	2.23316	2.22169	2.01977	1.98879	1.96759		
	1.78617						2.08862	9.936
16 a-Chlordane	2.28705	2.11693	2.09697	1.90599	1.87542	1.85263		
	1.67113						1.97230	10.439
17 Endosulfan I	2.13442	1.96020	1.91725	1.71655	1.67084	1.63113		
	1.41755						1.77828	13.511
18 DDE	2.17396	2.00397	2.02379	1.84382	1.81318	1.79305		
	1.58704						1.89126	10.141
19 Dieldrin	2.25885	2.10392	2.08574	1.88524	1.84408	1.81147		
	1.59252						1.94026	11.510

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
 End Cal Date : 19-MAY-2009 20:37
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem/gcp.i/19May2009.b/p0910519.m
 Cal Date : 20-May-2009 08:19 lantonic
 Curve Type : Average

Compound	0.10000	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	2.500							
	Level 7							
20 Endrin	1.98606	1.85372	1.84220	1.67416	1.63710	1.61853		
	1.42349						1.71932	10.902
21 DDD	1.65382	1.53980	1.58767	1.46433	1.45601	1.45648		
	1.34287						1.50014	6.816
22 Endosulfan II	1.85327	1.75504	1.73189	1.53068	1.49818	1.45227		
	1.31147						1.59040	12.181
23 DDT	1.68007	1.64889	1.68128	1.56483	1.54873	1.54702		
	1.41846						1.58418	5.949
24 Endrin Aldehyde	1.40233	1.33775	1.33579	1.22654	1.20651	1.19265		
	1.07413						1.25367	8.908
25 Endosulfan Sulfate	1.49491	1.46895	1.49292	1.38126	1.36477	1.36338		
	1.25239						1.40265	6.314
26 Methoxychlor	0.69495	0.63616	0.59870	0.54127	0.52941	0.52639		
	+++++						0.58781	11.609
169 Mirex	1.12526	1.06127	1.05700	0.98397	0.97476	0.98133		
	0.92776						1.01591	6.650
27 Endrin Ketone	1.74472	1.70032	1.68046	1.54698	1.51808	1.50014		
	1.35275						1.57764	8.760
\$ 2 TCMX	2.27365	2.06803	1.99655	1.80931	1.76021	1.71359		
	+++++						1.93689	11.110

INITIAL CALIBRATION DATA

```

Start Cal Date   : 19-MAY-2009 17:30
End Cal Date    : 19-MAY-2009 20:37
Quant Method    : ISTD
Origin          : Disabled
Target Version  : 3.50
Integrator      : HP Genie
Method file     : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date        : 20-May-2009 08:19 lantonic
Curve Type      : Average

```

[illegible]

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Average %RSD Results.	
=====	
Calculated Average %RSD = 9.57619190	
Maximun Average %RSD = 20	
* Passed Average %RSD Test.	

Calibration History

Method : /chem/gcp.i/19May2009.b/p0910519.m
Start Cal Date: 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
19-MAY-2009 17:30	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051905.d
Cal Level: 2 , Cal Amount: 0.20000		
19-MAY-2009 17:57	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051906.d
Cal Level: 3 , Cal Amount: 0.40000		
19-MAY-2009 18:23	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907.d
Cal Level: 4 , Cal Amount: 0.60000		
19-MAY-2009 20:37	tox	/chem/gcp.i/19May2009.b/P051912.d
19-MAY-2009 18:50	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051908.d
Cal Level: 5 , Cal Amount: 0.80000		
19-MAY-2009 19:17	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051909.d
Cal Level: 6 , Cal Amount: 1.00000		
19-MAY-2009 19:43	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051910.d
Cal Level: 7 , Cal Amount: 2.50000		
19-MAY-2009 20:10	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051911.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 3

Ccal Level: 3 , Ccal Amount: 0.4000	
19-MAY-2009 18:23	/chem/gcp.i/19May2009.b/P051907a.d
Ccal Level: 3 , Ccal Amount: 0.4000	
19-MAY-2009 18:23	/chem/gcp.i/19May2009.b/P051907.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

*upper range for
Methoxychlor
is 10ppm
and TCMX is 2.0ppm*

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905.d
Level 2: /chem/gcp.i/19May2009.b/P051906.d
Level 3: /chem/gcp.i/19May2009.b/P051907.d
Level 4: /chem/gcp.i/19May2009.b/P051912.d
Level 5: /chem/gcp.i/19May2009.b/P051909.d
Level 6: /chem/gcp.i/19May2009.b/P051910.d
Level 7: /chem/gcp.i/19May2009.b/P051911.d

*2nd Source: P051914
Mirex 2nd Source: P051913
TOX: P051912*

Based on 1ul injection in Hexane

Compound	0.10000	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
<i>unit in ppm</i>	2.500							
	Level 7							
=====								
M 3 toxaphene *	+++++	+++++	+++++	0.18671	+++++	+++++		
	+++++						0.18671	0.000

4 toxaphene-1	+++++	+++++	+++++	0.04782	+++++	+++++		
	+++++						0.04782	0.000

5 toxaphene-2	+++++	+++++	+++++	0.07004	+++++	+++++		
	+++++						0.07004	0.000

6 toxaphene-3	+++++	+++++	+++++	0.03904	+++++	+++++		
	+++++						0.03904	0.000

7 toxaphene-4	+++++	+++++	+++++	0.02980	+++++	+++++		
	+++++						0.02980	0.000

8 a-BHC	3.06029	2.88789	2.91994	2.72188	2.68274	2.66110		
	2.57452						2.78691	6.192

9 g-BHC	2.88994	2.70131	2.73475	2.51098	2.49789	2.47513		
	2.34450						2.59350	7.238

5/20/09

ran sl2009

*Calibration level 6.0ppm

Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: 1	Endrin Front: 2.31% Back: 2.25%
1685-320-50	Decafluorodiphenyl Ether	Front: 19926643419 Back: 6349112896	DDT Front: 3.12% Back: 2.51%
NA	NA	Front: NA Back: 1	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample/ Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P051901 Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
2	✓	02 1685-143-0.8 madd	2				1548		
3	X	03 1685-135-0.6 Pest	3				1615		CCV ↑
4	✓	04 Hexane Blank	4				1642		
5	✓	05 1685-135-0.1	5		RTN/NA		1730		Level 1
6	✓	06 -0.2	6				1757		Level 2
7	✓	07 -0.4	7				1823		Level 3, CCV
8	✓	08 -0.6	8				1850		Level 4
9	✓	09 -0.8	9				1917		Level 5
10	✓	10 -1.0	10				1943		Level 6
11	✓	11 ↓ -5.05-100	11				2010		Level 7, 2.5 ppm
12	✓	12 1685-127-6.0 TOX	12				2037		TOX
13	✓	13 1685-109A-1.0	13				2104		LCS morey
14	✓	14 1685-136-0.4	14				2130		LCS
15	✓	15 Hexane Blank	15				2157		
16	✓	16 0905142A-Blank	16				2328		
17	✓	17 -LCS	17			↓	2355		LCS
18	✓	18 -OIA	18			5/20/09	0021		
19	✓	19 -OIA	18				0048		
20	✓	20 ↓ -OIA	19				0115		
21	✓	21 1685-135-0.4	20				0142		
22	✓	22 Hexane Blank	21				0208		
23	✓	23 0905261A-Blank	22				0235		
24	✓	24 ↓ -LCS	23	↓	↓	↓	0302		LCS

Calculation Check:

File ID: P051914Compound: g-BHCInitials: RM

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{AVG}}} = \frac{9829798842 \times (2.100)}{21268438302 \times (2.25192)} = 2.59350$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.35742) \times (1000) \times (1.00)}{(1000)} = 0.35742$$

RM
Signed

5/20/09
Date

Reported Result = 0.3574

Revised: 02/27/06

Report Date: 20-May-2009 08:21 *Mon 5/20/09*

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902.d

Lab Smp Id: 1685-143-0.8

Client Smp ID: BREAKDOWN

Inj Date : 19-MAY-2009 15:48

Operator : LA

Inst ID: gcp.i

Smp Info : 1685-143-0.8

Misc Info : None

Comment : Primary Column, RTX-CLPesticides II

Method : /chem/gcp.i/19May2009.b/BREAK.m

Meth Date : 29-Apr-2009 09:16 lantonic Quant Type: ESTD

Cal Date :

Cal File:

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE		(area)	(area)
=====	==	=====	=====	=====		=====	=====
M 1 Total DDT				9907148577			
M 2 Total Endrin				11771148865			
3 p,p'-DDE	10.867	11.033	-0.166	52545510			
4 Endrin	11.596	11.674	-0.078	11499305683			
5 p,p'-DDD	11.758	11.836	-0.078	256731395			
6 p,p'-DDT	12.207	12.236	-0.029	9597871672			
7 Endrin Aldehyde	12.403	12.433	-0.030	86207858			
8 Endrin Ketone	13.532	13.699	-0.167	185635323			

$$\text{Endrin Breakdown} = \frac{86207858 + 185635323}{11771148865} \times 100 = 2.31\%$$

$$\text{DDT Breakdown} = \frac{52545510 + 256731395}{9907148577} \times 100 = 3.12\%$$

Report Date: 20-May-2009 08:21

run 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902b.d

Lab Smp Id: 1685-143-0.8

Client Smp ID: BREAKDOWN

Inj Date : 19-MAY-2009 15:48

Operator : LA

Inst ID: gcp.i

Smp Info : 1685-143-0.8

Misc Info : None

Comment : Confirmation Column, RTX-CLPesticides

Method : /chem/gcp.i/19May2009.b/BREAK.m/BREAKB.m

Meth Date : 30-Jul-2003 09:29 lizhang

Quant Type: ESTD

Cal Date :

Cal File:

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3092786588		
M 2 Total Endrin				3417949801		
3 p,p'-DDE	10.240	10.260	-0.020	13604321		
4 Endrin	11.096	11.113	-0.017	3341046962		
5 p,p'-DDD	11.184	11.204	-0.020	64059536		
6 p,p'-DDT	11.593	11.768	-0.175	3015122731		
7 Endrin Aldehyde	12.047	12.227	-0.180	12336504		
8 Endrin Ketone	13.048	13.227	-0.179	64566333		

$$\text{Endrin Breakdown} = \frac{12336504 + 64566333}{3417949801} \times 100 = 2.25\%$$

$$\text{DDT Breakdown} = \frac{13604321 + 64059536}{3092786588} \times 100 = 2.51\%$$

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
 Sample Matrix: GAS
 Lab Smp Id: 1685-136-0.4-4.0
 Level: LOW
 Data Type: GC DATA
 SpikeList File: 1050-159.spk
 Sublist File: pestCCV.sub
 Method File: /chem/gcp.i/19May2009.b/p0910519.m
 Misc Info: None

Client SDG: 19May2009
 Fraction:
 Client Smp ID: LCS
 Operator: LA/rn
 SampleType: LCS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.8000	0.6504	81.31*	85-115
8 a-BHC	0.4000	0.3761	94.03	85-115
10 b-BHC	0.4000	0.3680	92.00	85-115
9 g-BHC	0.4000	0.3574	89.36	85-115
11 d-BHC	0.4000	0.3602	90.05	85-115
12 Heptachlor	0.4000	0.3821	95.52	85-115
13 Aldrin	0.4000	0.3751	93.78	85-115
14 Heptachlor Epoxide	0.4000	0.3761	94.02	85-115
17 Endosulfan I	0.4000	0.3770	94.24	85-115
18 DDE	0.8000	0.7122	89.03	85-115
19 Dieldrin	0.8000	0.7218	90.23	85-115
20 Endrin	0.8000	0.6961	87.01	85-115
22 Endosulfan II	0.8000	0.7112	88.90	85-115
21 DDD	0.8000	0.7230	90.38	85-115
24 Endrin Aldehyde	0.8000	0.6449	80.61*	85-115
25 Endosulfan Sulfate	0.8000	0.7097	88.72	85-115
23 DDT	0.8000	0.7277	90.97	85-115
27 Endrin Ketone	0.8000	0.6887	86.09	85-115
16 a-Chlordane	0.4000	0.3700	92.50	85-115
15 g-Chlordane	0.4000	0.3633	90.82	85-115
26 Methoxychlor	4.000	3.662	91.55	85-115
\$ 28 DCB	1.600	1.216	76.01*	85-115

avg = 89.42 ans/2009

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.7000	0.6504	81.31	60-120
\$ 28 DCB	1.100	1.216	76.01	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051914.d
Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-136-0.4-4.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.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	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.032	6.030	(0.352)	13359563521	0.65044	0.6504(R)
8 a-BHC	7.023	7.021	(0.410)	11115054334	0.37611	0.3761
9 g-BHC	7.636	7.633	(0.446)	9829790842	0.35742	0.3574
10 b-BHC	7.782	7.779	(0.455)	4169846707	0.36798	0.3680
11 d-BHC	8.318	8.313	(0.486)	9196957842	0.36019	0.3602
12 Heptachlor	8.425	8.423	(0.492)	9570029662	0.38209	0.3821
13 Aldrin	9.030	9.028	(0.528)	9153183919	0.37513	0.3751
14 Heptachlor Epoxide	10.041	10.039	(0.587)	7903267660	0.37610	0.3761
15 g-Chlordane	10.354	10.352	(0.605)	8046254303	0.36329	0.3633
16 a-Chlordane	10.593	10.591	(0.619)	7738645707	0.37001	0.3700
17 Endosulfan I	10.692	10.690	(0.625)	7108548234	0.37697	0.3770
18 DDE	10.863	10.861	(0.635)	14284364405	0.71225	0.7122
19 Dieldrin	11.126	11.124	(0.650)	14852018351	0.72185	0.7218
20 Endrin	11.595	11.594	(0.677)	12690892064	0.69607	0.6961
21 DDD	11.753	11.752	(0.687)	11502206023	0.72306	0.7230
22 Endosulfan II	11.912	11.910	(0.696)	11994767584	0.71122	0.7112
23 DDT	12.206	12.205	(0.713)	12225304159	0.72774	0.7277
24 Endrin Aldehyde	12.401	12.399	(0.724)	8573243685	0.64489	0.6449(R)
25 Endosulfan Sulfate	12.792	12.790	(0.747)	10556613234	0.70973	0.7097
26 Methoxychlor	13.158	13.157	(0.769)	22826386237	3.66200	3.662
27 Endrin Ketone	13.530	13.529	(0.790)	11522288287	0.68874	0.6887

CONCENTRATIONS						
Compounds	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	15.436	15.434	(0.902)	15758956240	1.21616	1.216(R)
* 29 Decachlorodiphenyl Ether	17.118	17.115	(1.000)	21208438362	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051914.d

Calibration Time: 18:23

Lab Smp Id: 1685-136-0.4-4.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	21208438362	6.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: 19May2009
Sample Matrix: GAS Fraction:
Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
Level: LOW Operator: LA/rn
Data Type: GC DATA SampleType: LCS
SpikeList File: 1050-159.spk Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.8000	0.6504	81.31*	85-115
8 a-BHC	0.4000	0.3761	94.03	85-115
10 b-BHC	0.4000	0.3680	92.00	85-115
9 g-BHC	0.4000	0.3574	89.36	85-115
11 d-BHC	0.4000	0.3602	90.05	85-115
12 Heptachlor	0.4000	0.3821	95.52	85-115
13 Aldrin	0.4000	0.3751	93.78	85-115
14 Heptachlor Epoxide	0.4000	0.3761	94.02	85-115
17 Endosulfan I	0.4000	0.3770	94.24	85-115
18 DDE	0.8000	0.7122	89.03	85-115
19 Dieldrin	0.8000	0.7218	90.23	85-115
20 Endrin	0.8000	0.6961	87.01	85-115
22 Endosulfan II	0.8000	0.7112	88.90	85-115
21 DDD	0.8000	0.7230	90.38	85-115
24 Endrin Aldehyde	0.8000	0.6449	80.61*	85-115
25 Endosulfan Sulfate	0.8000	0.7097	88.72	85-115
23 DDT	0.8000	0.7277	90.97	85-115
27 Endrin Ketone	0.8000	0.6887	86.09	85-115
16 a-Chlordane	0.4000	0.3700	92.50	85-115
15 g-Chlordane	0.4000	0.3633	90.82	85-115
26 Methoxychlor	4.000	3.662	91.55	85-115
\$ 28 DCB	1.600	1.216	76.01*	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.7000	0.6504	81.31	60-120
\$ 28 DCB	1.100	1.216	76.01	60-120

Data File: /chem/gcp.i/19May2009.b/P051914.d

Date : 19-May-2009 21:30

Client ID: LCS

Sample Info: 1685-136-0.4-4.0

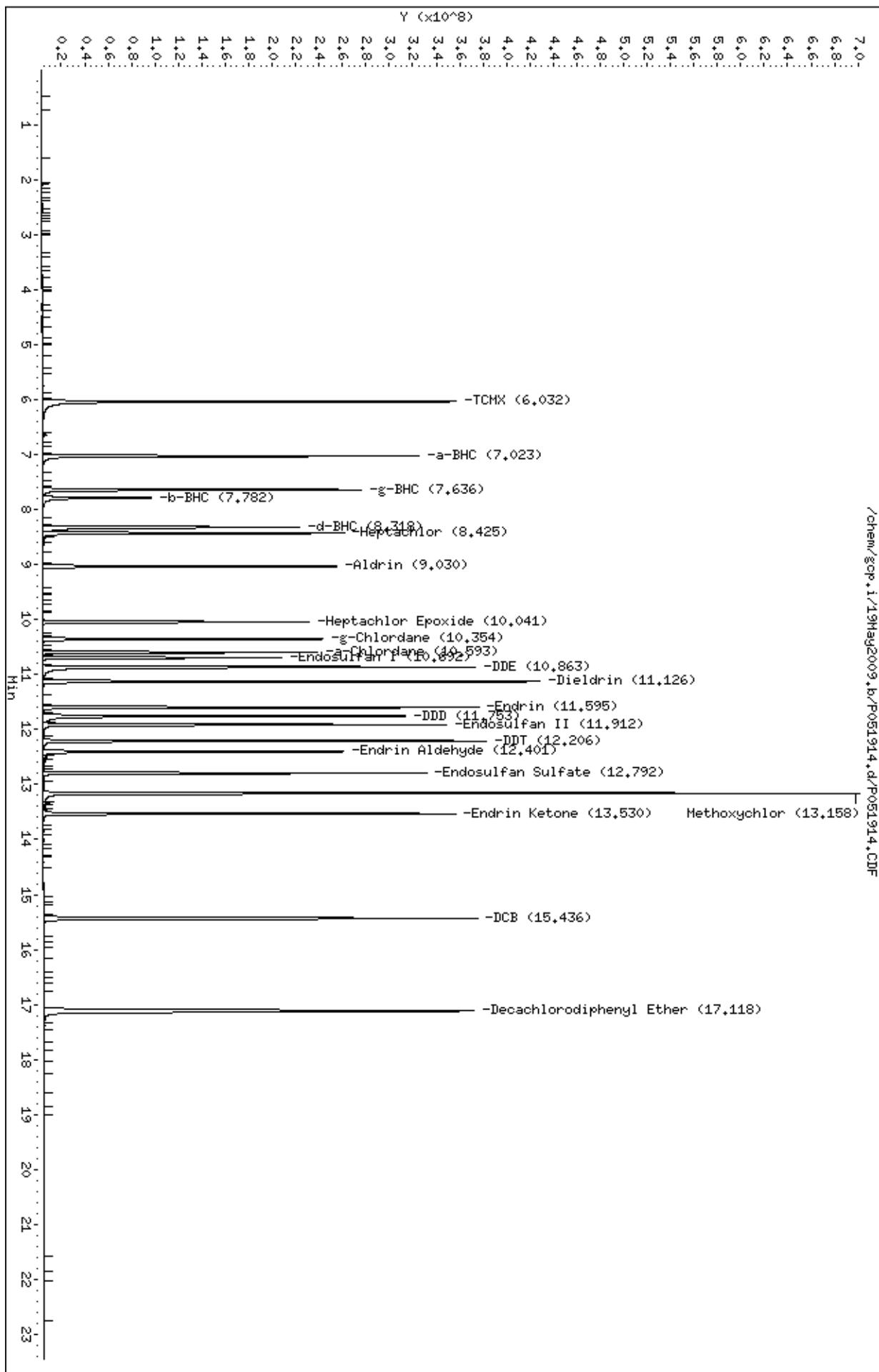
Page 1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051913.d
Lab Smp Id: 1685-109A-1.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:04
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-109A-1.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
=====	==	=====	=====	=====		(ug)	(ug)
\$ 2 TCMX				Compound Not Detected.			
169 Mirex	13.476	13.475	(0.787)	10299024327		0.95972	0.9597
\$ 28 DCB				Compound Not Detected.			
* 29 Decachlorodiphenyl Ether	17.116	17.115	(1.000)	21126349198		2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051913.d

Calibration Time: 18:23

Lab Smp Id: 1685-109A-1.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	21126349198	6.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: 19May2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 1685-109A-1.0	Client Smp ID: LCS
Level: LOW	Operator: LA/rn
Data Type: GC DATA	SampleType: LCS
SpikeList File: mirex.spk	Quant Type: ISTD
Sublist File: mirex.sub	
Method File: /chem/gcp.i/19May2009.b/p0910519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
169 Mirex	1.000	0.9597	95.97	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.000	*	60-120
\$ 28 DCB	0.6000	0.000	*	60-120

Data File: /chem/gcp.i/19May2009.b/P051913.d

Date : 19-May-2009 21:04

Client ID: LCS

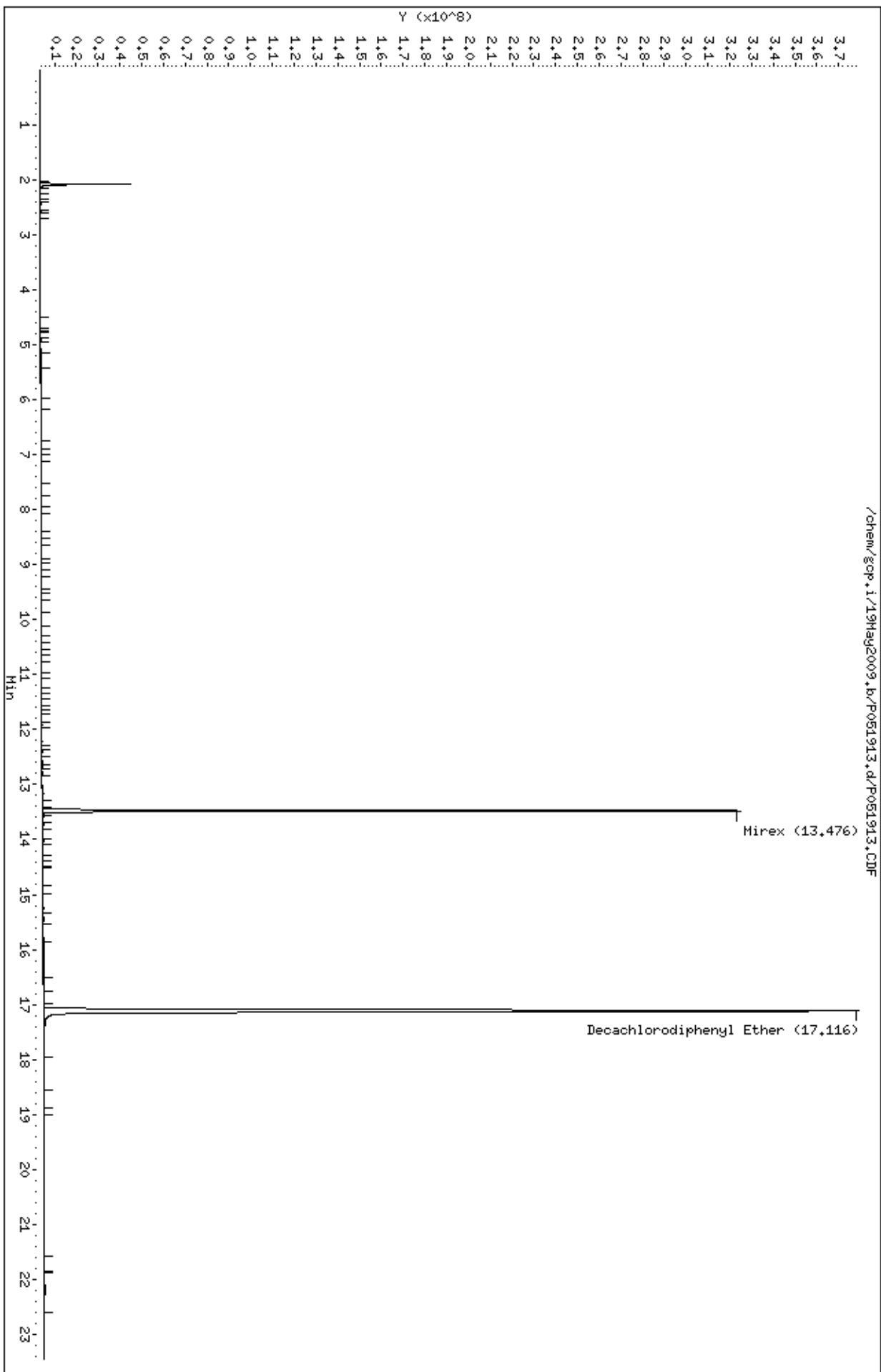
Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051905.d
Lab Smp Id: 1685-135-0.1
Inj Date : 19-MAY-2009 17:30
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.1
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 17:30Cal File: P051905.d
Als bottle: 1Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.046	6.030	(0.353)	4190478206	0.20000	0.2130
8 a-BHC	7.039	7.021	(0.411)	2820156397	0.10000	0.1023
9 g-BHC	7.653	7.633	(0.447)	2663172423	0.10000	0.1028
10 b-BHC	7.800	7.779	(0.455)	1128113119	0.10000	0.1043
11 d-BHC	8.336	8.313	(0.486)	2396925742	0.10000	0.1012
12 Heptachlor	8.443	8.423	(0.493)	2623940448	0.10000	0.1057
13 Aldrin	9.048	9.028	(0.528)	2480556367	0.10000	0.1043
14 Heptachlor Epoxide	10.057	10.039	(0.587)	2188432073	0.10000	0.1053
15 g-Chlordane	10.370	10.352	(0.605)	2214613357	0.10000	0.1039
16 a-Chlordane	10.609	10.591	(0.619)	2107591847	0.10000	0.1043
17 Endosulfan I	10.707	10.690	(0.625)	1966937128	0.10000	0.1054
18 DDE	10.879	10.861	(0.635)	2003375945	0.10000	0.1036
19 Dieldrin	11.141	11.124	(0.650)	2081607034	0.10000	0.1040
20 Endrin	11.609	11.594	(0.678)	1830216283	0.10000	0.1038
21 DDD	11.769	11.752	(0.687)	1524047643	0.10000	0.1020
22 Endosulfan II	11.926	11.910	(0.696)	1707847391	0.10000	0.1034
23 DDT	12.220	12.205	(0.713)	1548241722	0.10000	0.09996
24 Endrin Aldehyde	12.414	12.399	(0.725)	1292290011	0.10000	0.1024
25 Endosulfan Sulfate	12.804	12.790	(0.747)	1377612062	0.10000	0.1001
26 Methoxychlor	13.169	13.157	(0.769)	6404170159	1.00000	1.074
169 Mirex	13.488	13.475	(0.787)	1036968506	0.10000	0.1031

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.542	13.529	(0.790)	1607814147	0.10000	0.1019
\$ 28 DCB	15.450	15.434	(0.902)	2542111961	0.20000	0.2074
* 29 Decachlorodiphenyl Ether	17.134	17.115	(1.000)	18430658910	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051905.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.1

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	18430658910	-7.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.13	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.

Data File: /chem/gcp.i/19May2009.b/P051905.d

Date : 19-May-2009 17:30

Client ID:

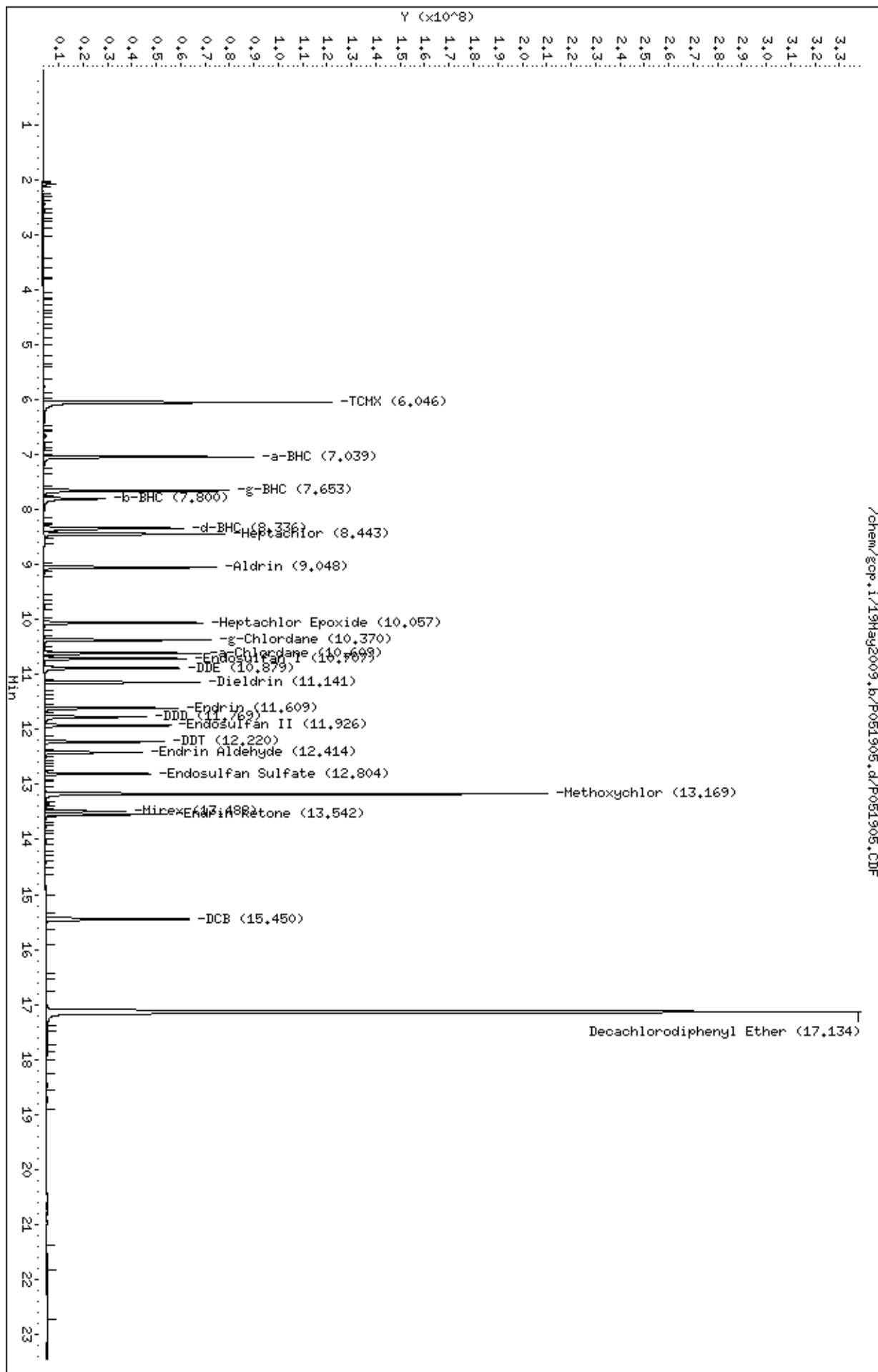
Sample Info: 1685-135-0.1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051906.d
Lab Smp Id: 1685-135-0.2
Inj Date : 19-MAY-2009 17:57
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.2
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 17:57Cal File: P051906.d
Als bottle: 1Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.031	6.030	(0.352)	8320476346	0.40000	0.3915
8 a-BHC	7.022	7.021	(0.410)	5809554387	0.20000	0.1954
9 g-BHC	7.634	7.633	(0.446)	5434210531	0.20000	0.1947
10 b-BHC	7.781	7.779	(0.455)	2259525472	0.20000	0.1942
11 d-BHC	8.317	8.313	(0.486)	4874235102	0.20000	0.1922
12 Heptachlor	8.424	8.423	(0.492)	5393269220	0.20000	0.1994
13 Aldrin	9.029	9.028	(0.527)	5037450048	0.20000	0.1960
14 Heptachlor Epoxide	10.039	10.039	(0.587)	4399381713	0.20000	0.1959
15 g-Chlordane	10.353	10.352	(0.605)	4492427269	0.20000	0.1954
16 a-Chlordane	10.593	10.591	(0.619)	4258621346	0.20000	0.1954
17 Endosulfan I	10.691	10.690	(0.625)	3943326411	0.20000	0.1956
18 DDE	10.864	10.861	(0.635)	4031368037	0.20000	0.1939
19 Dieldrin	11.125	11.124	(0.650)	4232439245	0.20000	0.1958
20 Endrin	11.595	11.594	(0.677)	3729112240	0.20000	0.1957
21 DDD	11.755	11.752	(0.687)	3097601608	0.20000	0.1932
22 Endosulfan II	11.911	11.910	(0.696)	3530609854	0.20000	0.1972
23 DDT	12.207	12.205	(0.713)	3317060058	0.20000	0.1975
24 Endrin Aldehyde	12.401	12.399	(0.724)	2691135991	0.20000	0.1969
25 Endosulfan Sulfate	12.791	12.790	(0.747)	2955068029	0.20000	0.1978
26 Methoxychlor	13.157	13.157	(0.769)	12797624733	2.00000	1.978
169 Mirex	13.476	13.475	(0.787)	2134950060	0.20000	0.1963

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.530	13.529	(0.790)	3420526513	0.20000	0.1990
\$ 28 DCB	15.435	15.434	(0.902)	5201669477	0.40000	0.3924
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	20116938105	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051906.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.2

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	20116938105	0.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/19May2009.b/P051906.d

Date : 19-May-2009 17:57

Client ID:

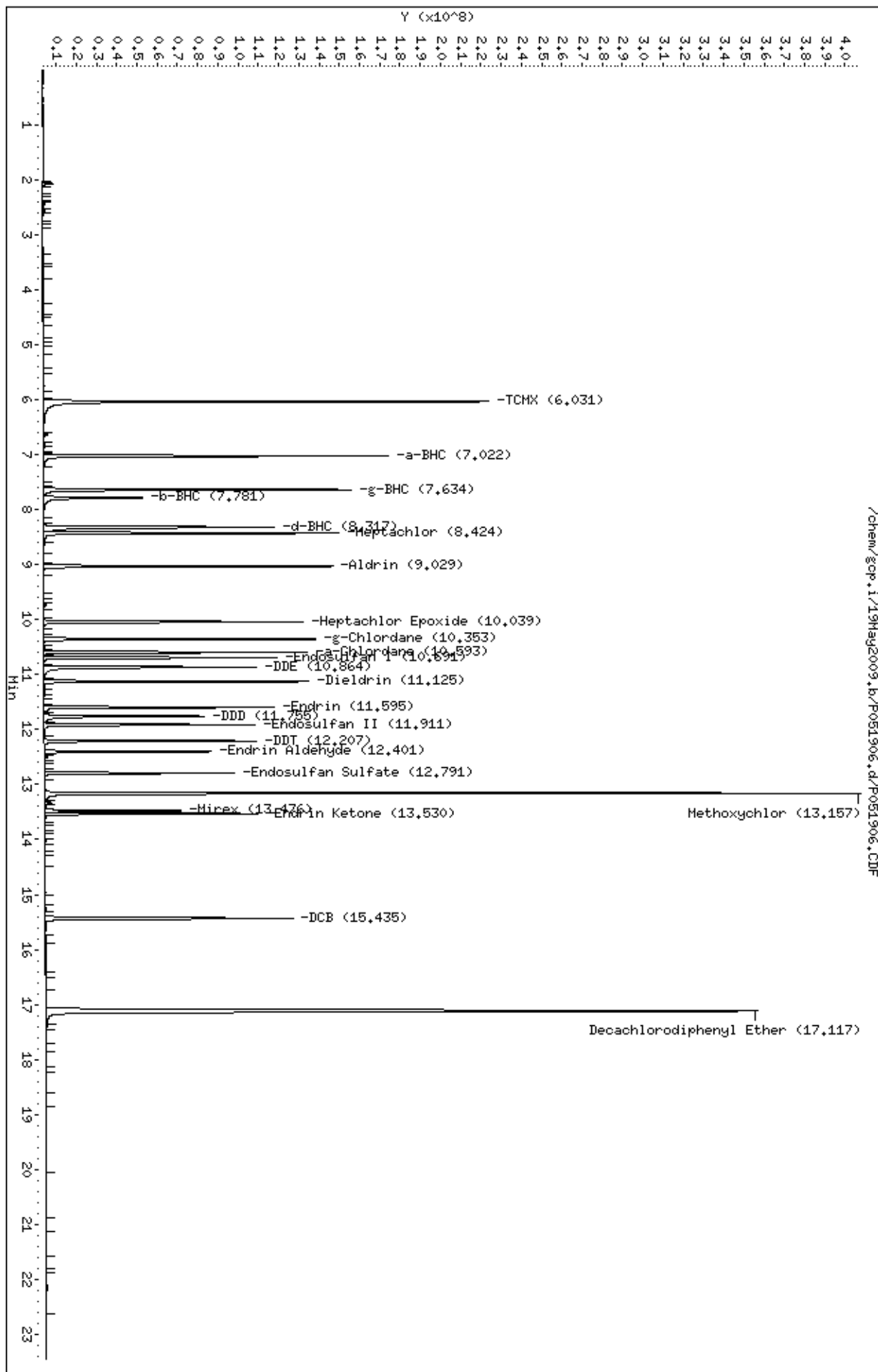
Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051907.d

Lab Smp Id: 1685-135-0.4

Inj Date : 19-MAY-2009 18:23

Operator : LA/rn

Inst ID: gcp.i

Smp Info : 1685-135-0.4

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/19May2009.b/p0910519.m

Meth Date : 19-May-2009 12:59 lantonic

Quant Type: ISTD

Cal Date : 19-MAY-2009 18:23

Cal File: P051907.d

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: pestCCV+mirex.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.030	6.030	(0.352)	15913794860	0.80000	0.8000
8 a-BHC	7.021	7.021	(0.410)	11636921972	0.40000	0.4000
9 g-BHC	7.633	7.633	(0.446)	10898880199	0.40000	0.4000
10 b-BHC	7.779	7.779	(0.454)	4477234347	0.40000	0.4000
11 d-BHC	8.313	8.313	(0.486)	10118923421	0.40000	0.4000
12 Heptachlor	8.423	8.423	(0.492)	10118190743	0.40000	0.4000
13 Aldrin	9.028	9.028	(0.527)	9843705134	0.40000	0.4000
14 Heptachlor Epoxide	10.039	10.039	(0.587)	8510457237	0.40000	0.4000
15 g-Chlordane	10.352	10.352	(0.605)	8854152809	0.40000	0.4000
16 a-Chlordane	10.591	10.591	(0.619)	8357126023	0.40000	0.4000
17 Endosulfan I	10.690	10.690	(0.625)	7640888517	0.40000	0.4000
18 DDE	10.861	10.861	(0.635)	8065454985	0.40000	0.4000
19 Dieldrin	11.124	11.124	(0.650)	8312366885	0.40000	0.4000
20 Endrin	11.594	11.594	(0.677)	7341785819	0.40000	0.4000
21 DDD	11.752	11.752	(0.687)	6327369617	0.40000	0.4000
22 Endosulfan II	11.910	11.910	(0.696)	6902151381	0.40000	0.4000
23 DDT	12.205	12.205	(0.713)	6700463213	0.40000	0.4000
24 Endrin Aldehyde	12.399	12.399	(0.724)	5323543032	0.40000	0.4000
25 Endosulfan Sulfate	12.790	12.790	(0.747)	5949772334	0.40000	0.4000
26 Methoxychlor	13.157	13.157	(0.769)	23860307640	4.00000	4.000
169 Mirex	13.475	13.475	(0.787)	4212507456	0.40000	0.4000

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.529	13.529	(0.790)	6697199731	0.40000	0.4000
\$ 28 DCB	15.434	15.434	(0.902)	10210332030	0.80000	0.8000
* 29 Decachlorodiphenyl Ether	17.115	17.115	(1.000)	19926643419	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051907.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.4

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	19926643419	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/19May2009.b/P051907.d

Date : 19-May-2009 18:23

Client ID:

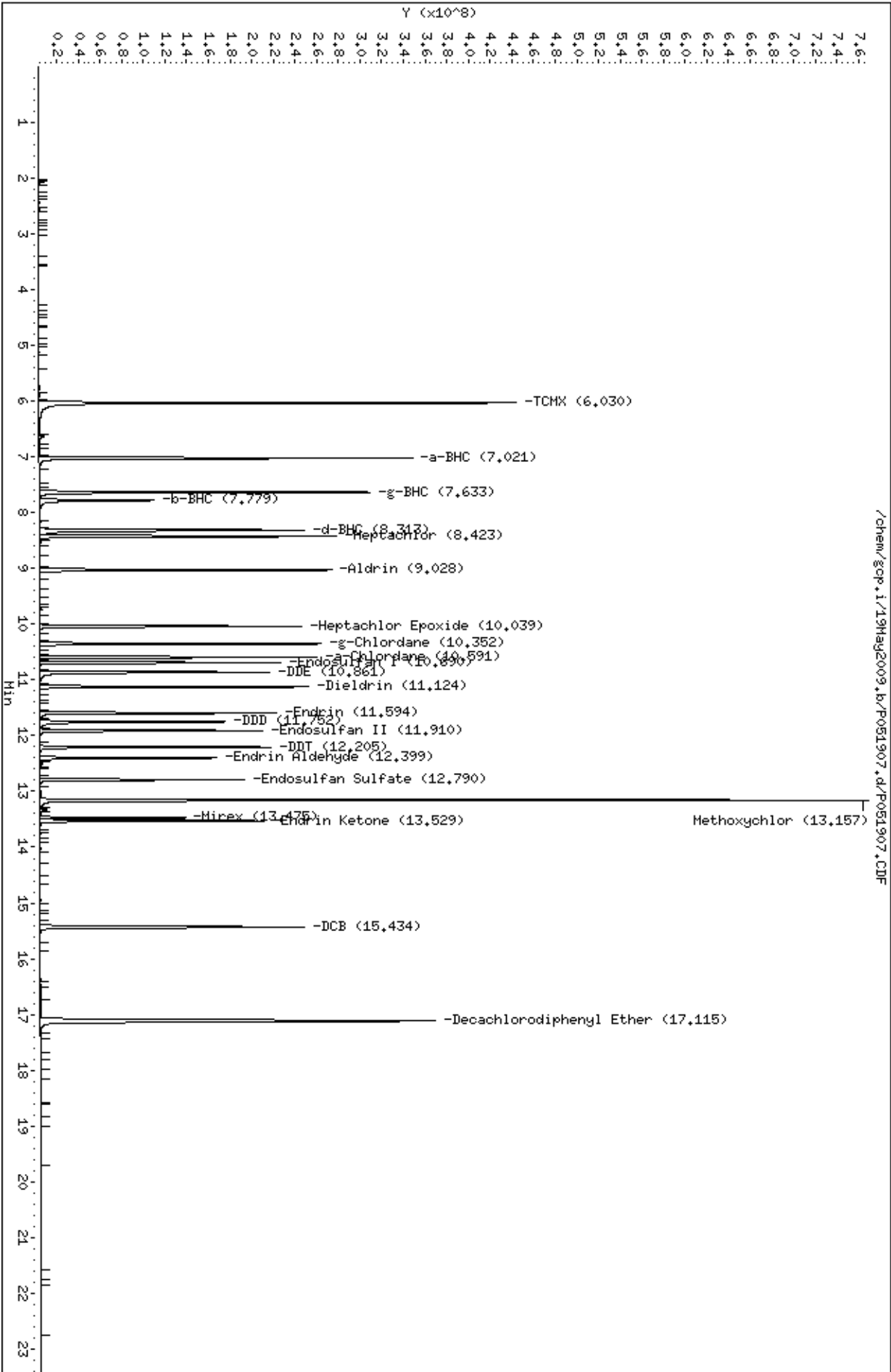
Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051912.d
Lab Smp Id: 1685-127-6.0
Inj Date : 19-MAY-2009 20:37
Operator : LA/rn
Smp Info : 1685-127-6.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan
Cal Date : 19-MAY-2009 20:37
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50
Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P051912.d

Calibration Sample, Level: 4

Compound Sublist: tox.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

						AMOUNTS	
						CAL-AMT	ON-COL
Compounds						(ug)	(ug)
=====						=====	=====
RT	EXP RT	REL RT	RESPONSE				
==	=====	=====	=====				
M 3 toxaphene			11949733770			6.00000	6.000
4 toxaphene-1	11.498	11.517 (0.672)	3060669912			6.00000	6.000
5 toxaphene-2	12.030	12.049 (0.703)	4482979778			6.00000	6.000
6 toxaphene-3	12.528	12.547 (0.732)	2498515344			6.00000	6.000
7 toxaphene-4	12.904	12.907 (0.754)	1907568735			6.00000	6.000
* 29 Decachlorodiphenyl Ether	17.117	17.115 (1.000)	21334075296			2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051912.d

Calibration Time: 18:23

Lab Smp Id: 1685-127-6.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	21334075296	7.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/19May2009.b/P051912.d

Date : 19-May-2009 20:37

Client ID:

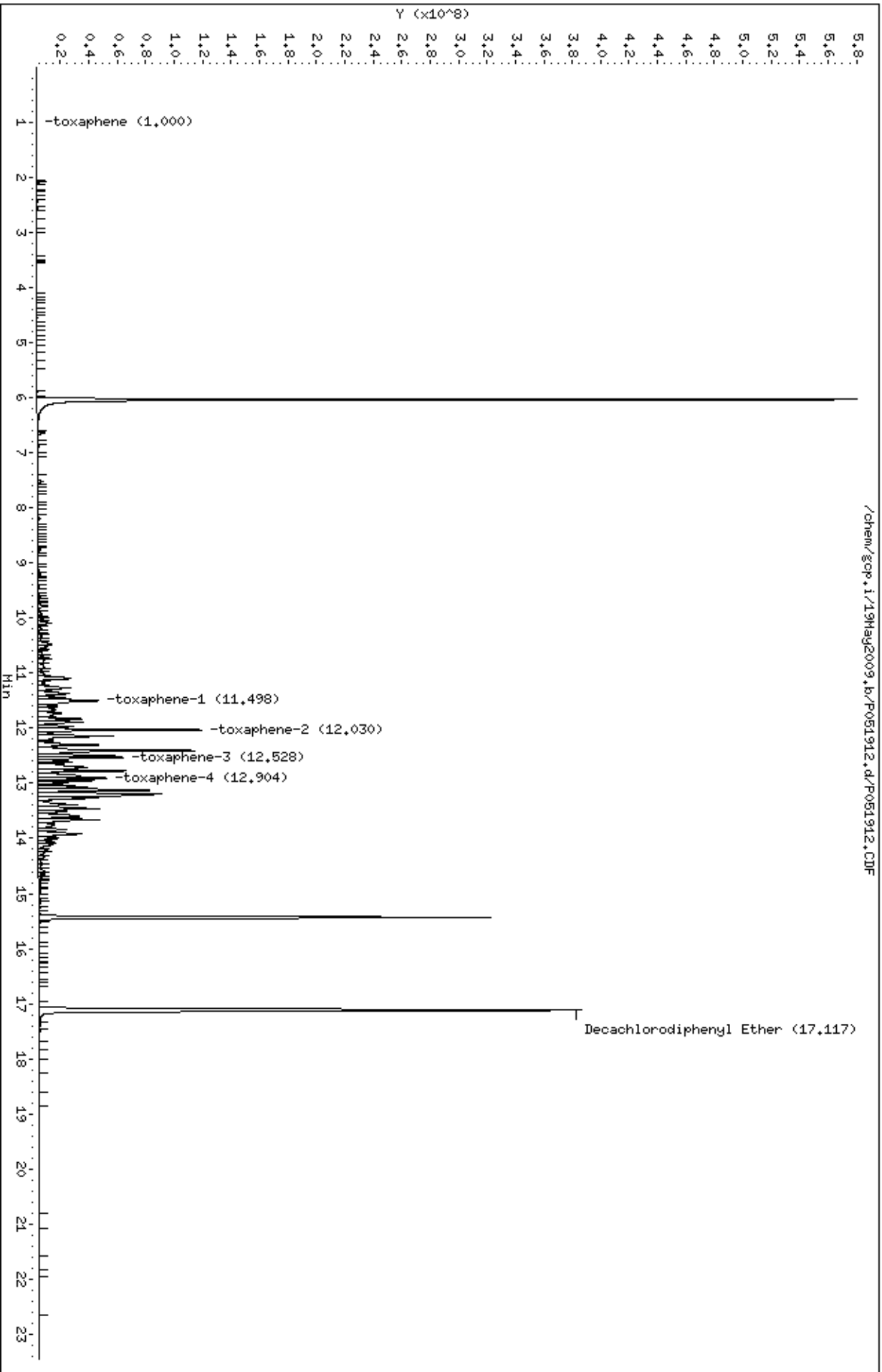
Sample Info: 1685-127-6.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051908.d
Lab Smp Id: 1685-135-0.6
Inj Date : 19-MAY-2009 18:50
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.6
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 18:50Cal File: P051908.d
Als bottle: 1Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.029	6.030	(0.352)	22070318378	1.20000	1.066
8 a-BHC	7.021	7.021	(0.410)	16601018476	0.60000	0.5636
9 g-BHC	7.634	7.633	(0.446)	15314716321	0.60000	0.5561
10 b-BHC	7.779	7.779	(0.454)	6281734001	0.60000	0.5492
11 d-BHC	8.314	8.313	(0.486)	14261255743	0.60000	0.5668
12 Heptachlor	8.424	8.423	(0.492)	14118823074	0.60000	0.5351
13 Aldrin	9.029	9.028	(0.527)	13636847370	0.60000	0.5419
14 Heptachlor Epoxide	10.039	10.039	(0.586)	11642272715	0.60000	0.5323
15 g-Chlordane	10.353	10.352	(0.605)	12318775633	0.60000	0.5460
16 a-Chlordane	10.592	10.591	(0.619)	11624796100	0.60000	0.5441
17 Endosulfan I	10.690	10.690	(0.625)	10469433936	0.60000	0.5331
18 DDE	10.862	10.861	(0.635)	11245663238	0.60000	0.5500
19 Dieldrin	11.125	11.124	(0.650)	11498245673	0.60000	0.5429
20 Endrin	11.595	11.594	(0.677)	10210858613	0.60000	0.5462
21 DDD	11.752	11.752	(0.687)	8931065208	0.60000	0.5627
22 Endosulfan II	11.911	11.910	(0.696)	9335798291	0.60000	0.5347
23 DDT	12.206	12.205	(0.713)	9544050595	0.60000	0.5712
24 Endrin Aldehyde	12.401	12.399	(0.724)	7480792938	0.60000	0.5552
25 Endosulfan Sulfate	12.791	12.790	(0.747)	8424417752	0.60000	0.5678
26 Methoxychlor	13.157	13.157	(0.769)	33012836629	6.00000	5.257
169 Mirex	13.476	13.475	(0.787)	6001327631	0.60000	0.5586

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.530	13.529	(0.790)	9435202516	0.60000	0.5564
\$ 28 DCB	15.435	15.434	(0.902)	14423662953	1.20000	1.105
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	20330333482	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051908.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.6

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	20330333482	2.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/19May2009.b/P051908.d

Date : 19-May-2009 18:50

Client ID:

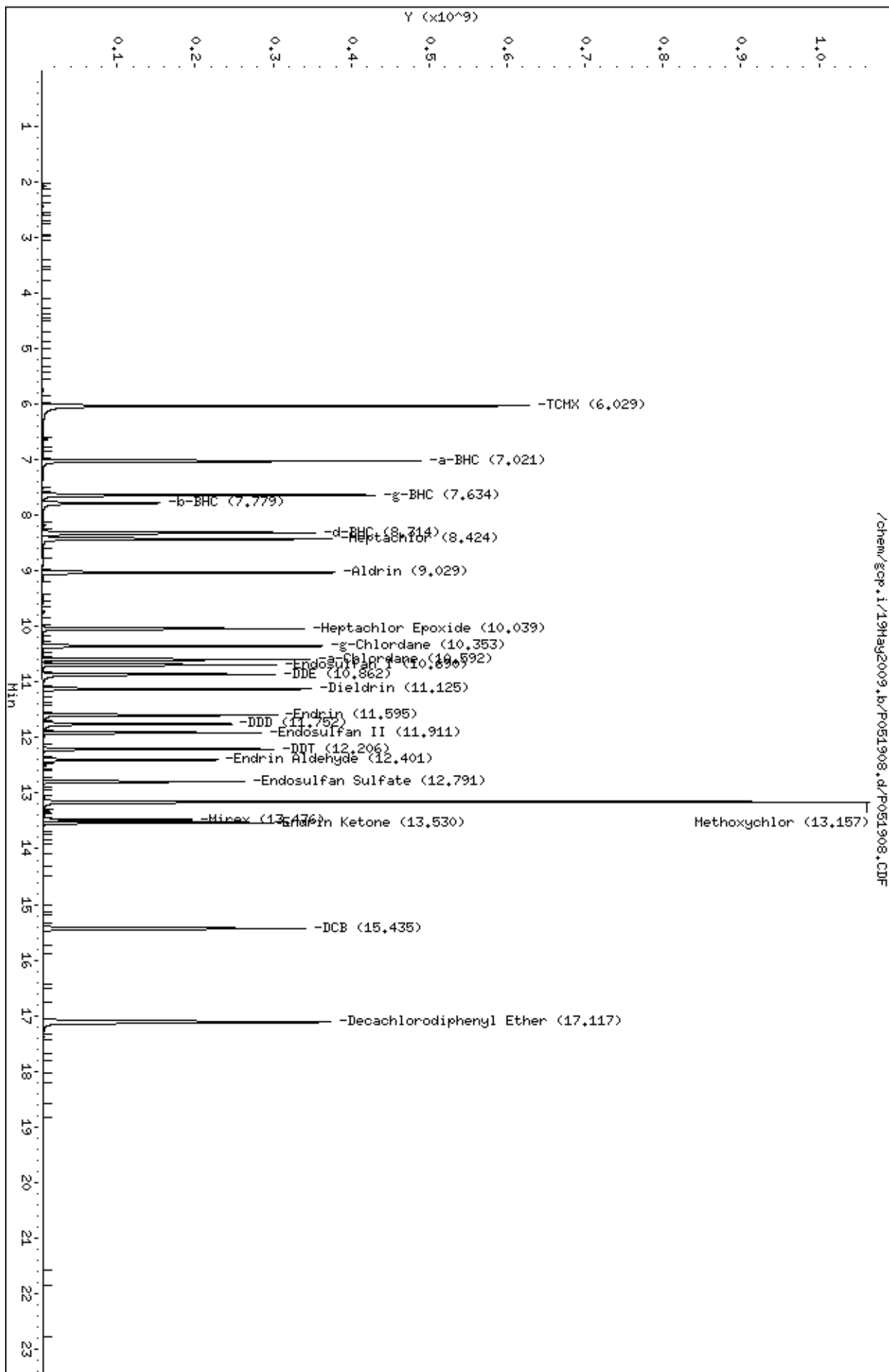
Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051909.d
Lab Smp Id: 1685-135-0.8
Inj Date : 19-MAY-2009 19:17
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.8
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 19:17Cal File: P051909.d
Als bottle: 1Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.030	6.030	(0.352)	27996431680	1.60000	1.421
8 a-BHC	7.022	7.021	(0.410)	21334657621	0.80000	0.7518
9 g-BHC	7.635	7.633	(0.446)	19864635276	0.80000	0.7493
10 b-BHC	7.779	7.779	(0.454)	8105321892	0.80000	0.7386
11 d-BHC	8.314	8.313	(0.486)	18686274337	0.80000	0.7672
12 Heptachlor	8.424	8.423	(0.492)	17525736898	0.80000	0.7004
13 Aldrin	9.029	9.028	(0.528)	17397821563	0.80000	0.7238
14 Heptachlor Epoxide	10.040	10.039	(0.587)	14791689667	0.80000	0.7109
15 g-Chlordane	10.354	10.352	(0.605)	15815993623	0.80000	0.7321
16 a-Chlordane	10.594	10.591	(0.619)	14914386373	0.80000	0.7296
17 Endosulfan I	10.692	10.690	(0.625)	13287446769	0.80000	0.7110
18 DDE	10.862	10.861	(0.635)	14419465619	0.80000	0.7357
19 Dieldrin	11.126	11.124	(0.650)	14665140547	0.80000	0.7247
20 Endrin	11.595	11.594	(0.677)	13019161260	0.80000	0.7281
21 DDD	11.752	11.752	(0.687)	11578986529	0.80000	0.7562
22 Endosulfan II	11.911	11.910	(0.696)	11914364057	0.80000	0.7160
23 DDT	12.206	12.205	(0.713)	12316368770	0.80000	0.7626
24 Endrin Aldehyde	12.401	12.399	(0.724)	9594813162	0.80000	0.7414
25 Endosulfan Sulfate	12.792	12.790	(0.747)	10853394152	0.80000	0.7579
26 Methoxychlor	13.158	13.157	(0.769)	42101375906	8.00000	7.058
169 Mirex	13.476	13.475	(0.787)	7751874261	0.80000	0.7495

Compounds	AMOUNTS					
				CAL-AMT	ON-COL	
	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.530	13.529	(0.790)	12072653207	0.80000	0.7414
\$ 28 DCB	15.435	15.434	(0.902)	18533615404	1.60000	1.479
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	19881409611	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051909.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.8

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	19881409611	-0.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/19May2009.b/P051909.d

Date : 19-May-2009 19:17

Client ID:

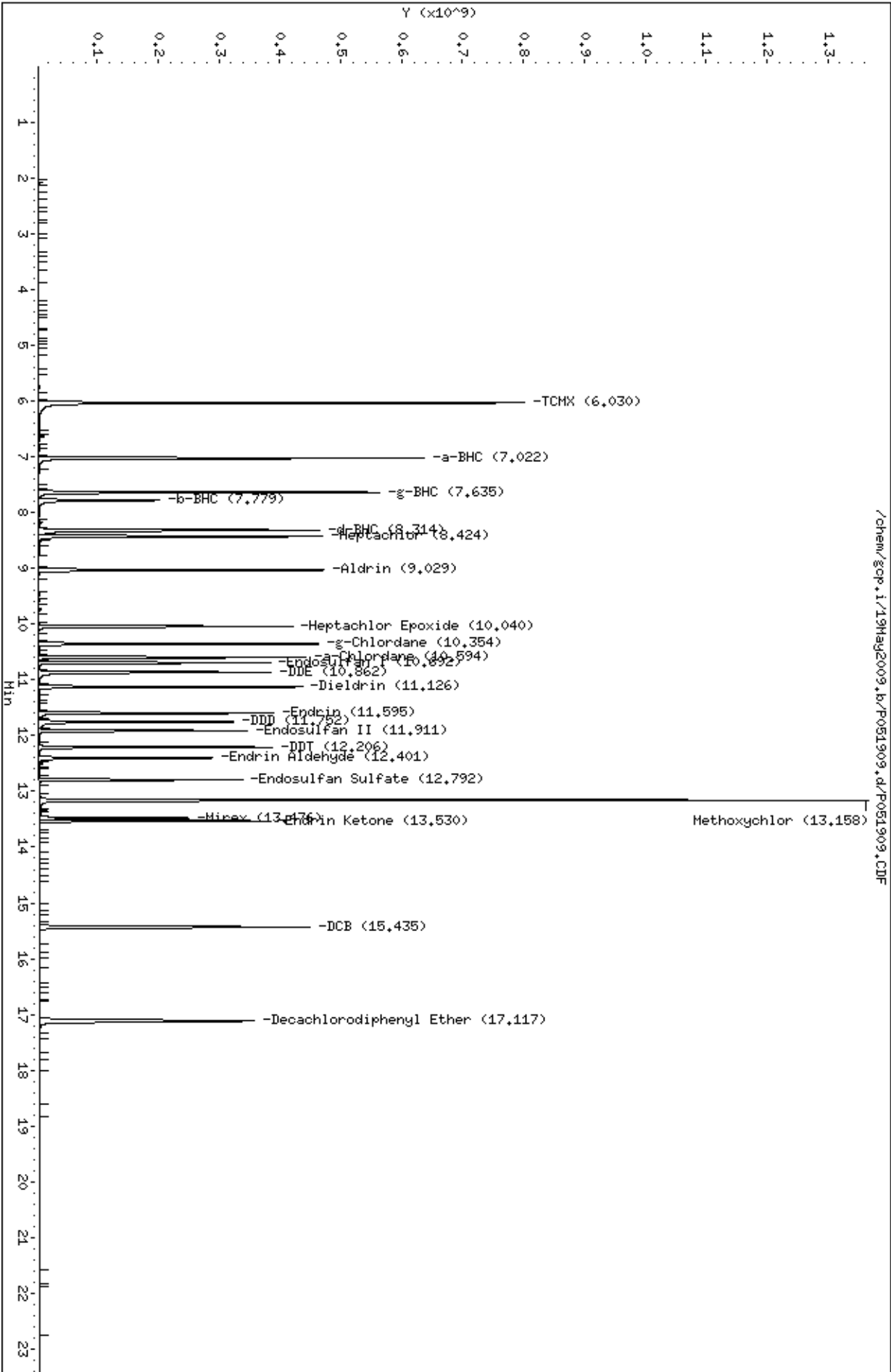
Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051910.d
Lab Smp Id: 1685-135-1.0
Inj Date : 19-MAY-2009 19:43
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-1.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonanQuant Type: ISTD
Cal Date : 19-MAY-2009 19:43Cal File: P051910.d
Als bottle: 1Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.028	6.030	(0.352)	35114596843	2.00000	1.769
8 a-BHC	7.020	7.021	(0.410)	27265320824	1.00000	0.9429
9 g-BHC	7.633	7.633	(0.446)	25359951985	1.00000	0.9393
10 b-BHC	7.777	7.779	(0.454)	10348203459	1.00000	0.9280
11 d-BHC	8.312	8.313	(0.486)	24034623787	1.00000	0.9642
12 Heptachlor	8.423	8.423	(0.492)	21879337539	1.00000	0.8703
13 Aldrin	9.028	9.028	(0.528)	21921521378	1.00000	0.9022
14 Heptachlor Epoxide	10.039	10.039	(0.587)	18637490497	1.00000	0.8884
15 g-Chlordane	10.352	10.352	(0.605)	20159659289	1.00000	0.9198
16 a-Chlordane	10.592	10.591	(0.619)	18981788643	1.00000	0.9160
17 Endosulfan I	10.690	10.690	(0.625)	16712350657	1.00000	0.8872
18 DDE	10.860	10.861	(0.635)	18371347867	1.00000	0.9233
19 Dieldrin	11.125	11.124	(0.650)	18560109843	1.00000	0.9065
20 Endrin	11.594	11.594	(0.677)	16583301353	1.00000	0.9151
21 DDD	11.750	11.752	(0.687)	14922918946	1.00000	0.9542
22 Endosulfan II	11.911	11.910	(0.696)	14879785554	1.00000	0.8872
23 DDT	12.205	12.205	(0.713)	15850629118	1.00000	0.9598
24 Endrin Aldehyde	12.399	12.399	(0.724)	12219722496	1.00000	0.9291
25 Endosulfan Sulfate	12.790	12.790	(0.747)	13969054249	1.00000	0.9550
26 Methoxychlor	13.157	13.157	(0.769)	53933135517	10.0000	8.955
169 Mirex	13.475	13.475	(0.787)	10054626135	1.00000	0.9522

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.529	13.529	(0.790)	15370216805	1.00000	0.9288
\$ 28 DCB	15.434	15.434	(0.902)	23925701053	2.00000	1.876
* 29 Decachlorodiphenyl Ether	17.115	17.115	(1.000)	20491774093	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051910.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-1.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	20491774093	2.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.11	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/gcp.i/19May2009.b/P051910.d

Date : 19-May-2009 19:43

Client ID:

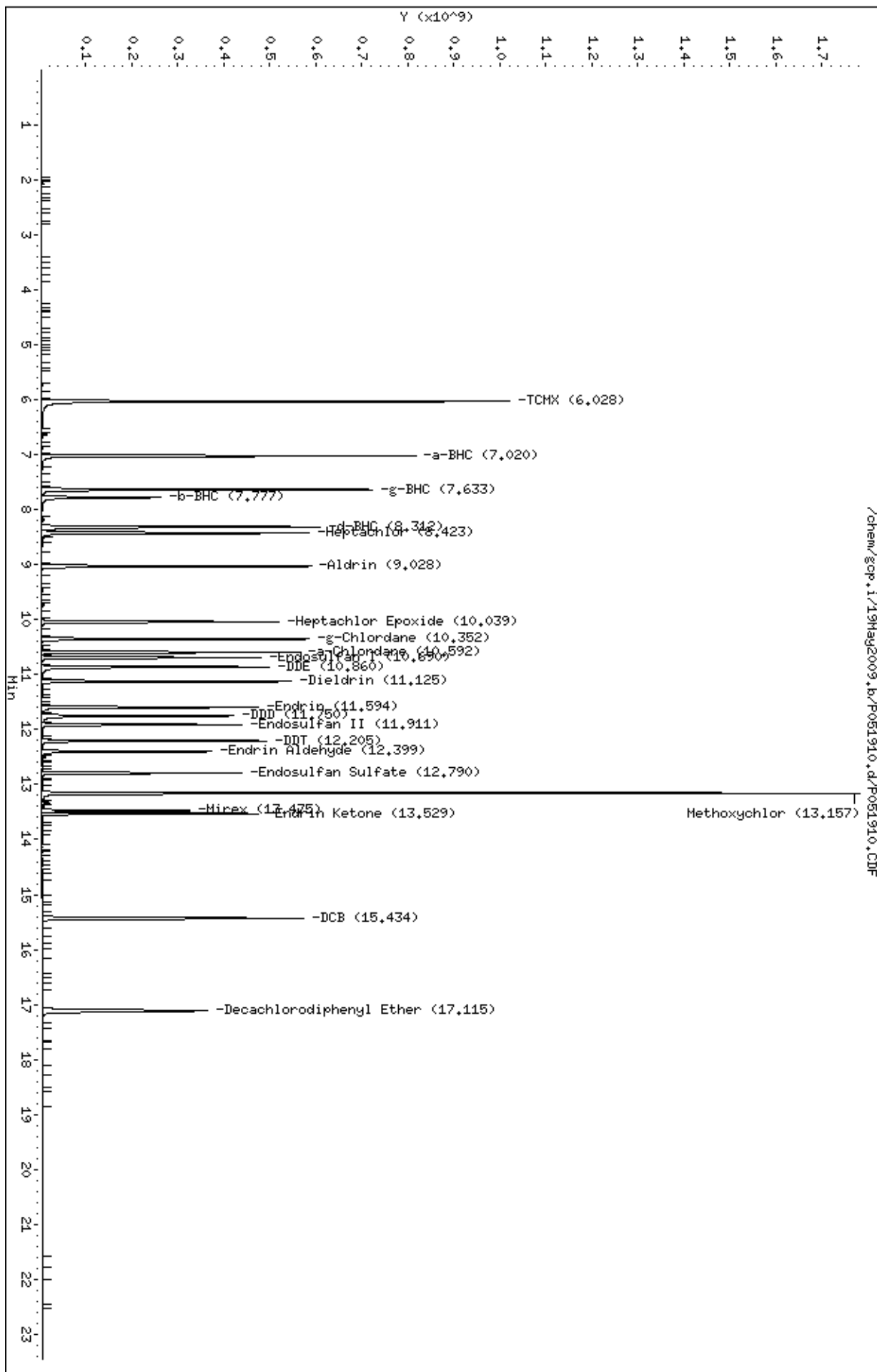
Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051911.d
Lab Smp Id: 1685-135-2.5
Inj Date : 19-MAY-2009 20:10
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-2.5
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonanQuant Type: ISTD
Cal Date : 19-MAY-2009 20:10Cal File: P051911.d
Als bottle: 1Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.028	6.030	(0.352)	73195660122	5.00000	3.889(A)
8 a-BHC	7.022	7.021	(0.410)	62536157166	2.50000	2.309
9 g-BHC	7.634	7.633	(0.446)	56949076350	2.50000	2.260(A)
10 b-BHC	7.776	7.779	(0.454)	23082166911	2.50000	2.223
11 d-BHC	8.311	8.313	(0.486)	54860185220	2.50000	2.345
12 Heptachlor	8.425	8.423	(0.492)	44019549649	2.50000	1.918(A)
13 Aldrin	9.030	9.028	(0.528)	45617404669	2.50000	2.040(A)
14 Heptachlor Epoxide	10.041	10.039	(0.587)	38540735037	2.50000	2.002
15 g-Chlordane	10.354	10.352	(0.605)	43386888689	2.50000	2.138
16 a-Chlordane	10.594	10.591	(0.619)	40592628044	2.50000	2.118
17 Endosulfan I	10.692	10.690	(0.625)	34432925059	2.50000	1.993
18 DDE	10.860	10.861	(0.634)	38549931425	2.50000	2.098
19 Dieldrin	11.126	11.124	(0.650)	38682963433	2.50000	2.052(A)
20 Endrin	11.596	11.594	(0.677)	34577202452	2.50000	2.070(A)
21 DDD	11.750	11.752	(0.686)	32618937080	2.50000	2.238
22 Endosulfan II	11.911	11.910	(0.696)	31856277405	2.50000	2.062
23 DDT	12.205	12.205	(0.713)	34455055395	2.50000	2.238(A)
24 Endrin Aldehyde	12.401	12.399	(0.724)	26091056913	2.50000	2.142
25 Endosulfan Sulfate	12.791	12.790	(0.747)	30421182628	2.50000	2.232
26 Methoxychlor	13.161	13.157	(0.769)	89961299657	25.0000	15.75
169 Mirex	13.477	13.475	(0.787)	22535818067	2.50000	2.283

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.530	13.529	(0.790)	32858860253	2.50000	2.144
\$ 28 DCB	15.436	15.434	(0.902)	52727654537	5.00000	4.441(A)
* 29 Decachlorodiphenyl Ether	17.118	17.115	(1.000)	19432365788	2.00000	

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: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051911.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-2.5

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19926643419	9963321709	39853286838	19432365788	-2.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/19May2009.b/P051911.d

Date : 19-May-2009 20:10

Client ID:

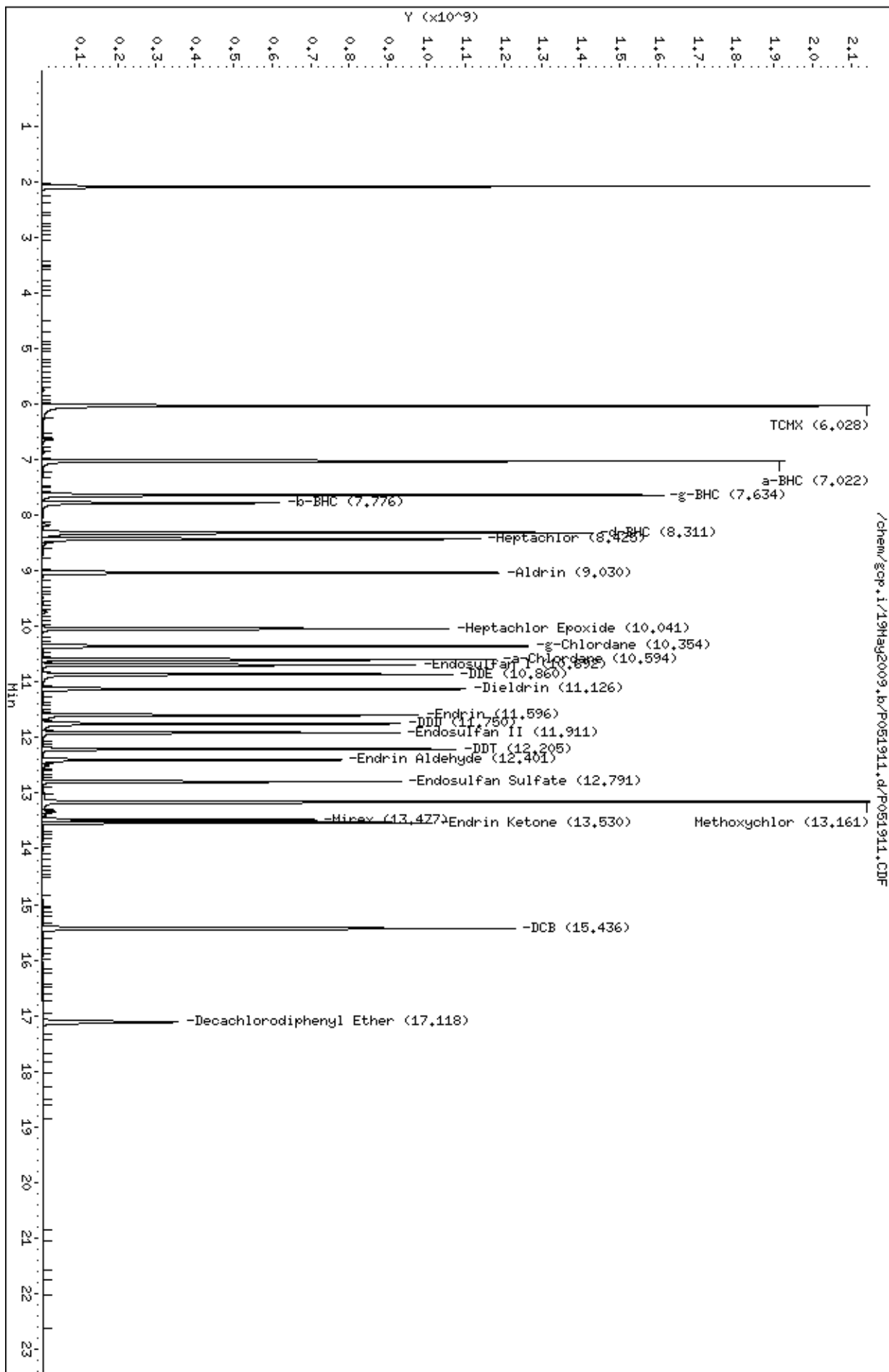
Sample Info: 1685-135-2.5

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
 End Cal Date : 19-MAY-2009 20:37
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
 Cal Date : 20-May-2009 08:19 lantonic
 Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	RRF	% RSD
	2.500 Level 7							
10 b-BHC	0.81292	0.79245	0.83550	0.78789	0.79980	0.81006		
	0.81955						0.80831	2.040
11 d-BHC	1.71638	1.77233	1.98203	1.91170	1.89650	1.94368		
	2.02578						1.89263	5.877
12 Heptachlor	1.78384	1.83644	1.94902	1.84281	1.86177	1.88052		
	1.83636						1.85582	2.733
13 Aldrin	1.69800	1.76298	1.88450	1.78900	1.81134	1.83331		
	1.80005						1.79703	3.230
14 Heptachlor Epoxide	1.56501	1.58947	1.67671	1.57178	1.58314	1.59444		
	1.55718						1.59111	2.515
15 g-Chlordane	1.59477	1.63949	1.75806	1.66107	1.68542	1.71499		
	1.70907						1.68041	3.210
16 a-Chlordane	1.56551	1.59152	1.69381	1.59554	1.61296	1.64011		
	1.62799						1.61821	2.563
17 DDE	1.40755	1.40046	1.55177	1.47856	1.50409	1.53929		
	1.53981						1.48879	4.236
18 Endosulfan I	1.46805	1.52440	1.60742	1.49517	1.49957	1.50732		
	1.45642						1.50833	3.275
19 Dieldrin	1.55166	1.60249	1.71508	1.61363	1.62790	1.65210		
	1.62507						1.62685	3.058

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
 End Cal Date : 19-MAY-2009 20:37
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
 Cal Date : 20-May-2009 08:19 lantonic
 Curve Type : Average

Compound	0.10000	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	2.500							
	Level 7							
20 Endrin	1.39653	1.43525	1.52245	1.42955	1.43678	1.46210		
	1.41927						1.44313	2.783
21 DDD	1.17702	1.21567	1.34638	1.27594	1.29348	1.32224		
	1.32560						1.27947	4.861
22 Endosulfan II	1.37600	1.38801	1.47244	1.33648	1.34028	1.33258		
	1.33621						1.36886	3.700
23 DDT	1.32732	1.36556	1.47739	1.40714	1.42057	1.46030		
	1.44592						1.41489	3.776
24 Endrin Aldehyde	1.15746	1.15293	1.19980	1.12665	1.13054	1.14408		
	1.13398						1.14935	2.177
25 Methoxychlor	0.64395	0.63213	0.65077	0.61080	0.61427	0.63138		
	+++++						0.63055	2.504
168 Mirex	1.07161	1.03118	1.06973	0.99424	0.99673	1.02634		
	1.02119						1.03015	3.015
26 Endosulfan Sulfate	1.23423	1.23521	1.32139	1.23082	1.24646	1.28387		
	1.27391						1.26084	2.678
27 Endrin Ketone	1.57105	1.57302	1.64873	1.54219	1.54512	1.57006		
	1.54022						1.57006	2.396
\$ 2 TCMX	1.56752	1.56900	1.64608	1.56091	1.56873	1.57058		
	1.55087						1.57624	2.002

INITIAL CALIBRATION DATA

```
Start Cal Date   : 19-MAY-2009 17:30
End Cal Date    : 19-MAY-2009 20:37
Quant Method    : ISTD
Origin          : Disabled
Target Version  : 3.50
Integrator      : HP Genie
Method file     : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date        : 20-May-2009 08:19 lantonic
Curve Type      : Average
```

[illegible]

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Average %RSD Results.	
=====	
Calculated Average %RSD = 3.28182554	
Maximun Average %RSD = 20	
* Passed Average %RSD Test.	

Calibration History

Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Start Cal Date: 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
19-MAY-2009 17:30	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051905b.d
Cal Level: 2 , Cal Amount: 0.20000		
19-MAY-2009 17:57	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051906b.d
Cal Level: 3 , Cal Amount: 0.40000		
19-MAY-2009 18:23	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907b.d
Cal Level: 4 , Cal Amount: 0.60000		
19-MAY-2009 20:37	tox	/chem/gcp.i/19May2009.b/P051912b.d
19-MAY-2009 18:50	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051908b.d
Cal Level: 5 , Cal Amount: 0.80000		
19-MAY-2009 19:17	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051909b.d
Cal Level: 6 , Cal Amount: 1.00000		
19-MAY-2009 19:44	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051910b.d
Cal Level: 7 , Cal Amount: 2.50000		
19-MAY-2009 20:10	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051911b.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 3

+-----+-----+-----+-----+	
Ccal Level: 3 , Ccal Amount: 0.4000	
+=====+	
19-MAY-2009 18:23 pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907ab.d
+-----+-----+-----+-----+	
Ccal Level: 3 , Ccal Amount: 0.4000	
+=====+	
19-MAY-2009 18:23 pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907b.d
+-----+-----+-----+-----+	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

*Upper range for
Methoxychlor
is 10 ppm*

*2nd Source: P051914b
Mirex 2nd Source: P051913b
TOX: P051912b*

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905b.d
Level 2: /chem/gcp.i/19May2009.b/P051906b.d
Level 3: /chem/gcp.i/19May2009.b/P051907b.d
Level 4: /chem/gcp.i/19May2009.b/P051912b.d
Level 5: /chem/gcp.i/19May2009.b/P051909b.d
Level 6: /chem/gcp.i/19May2009.b/P051910b.d
Level 7: /chem/gcp.i/19May2009.b/P051911b.d

Based on 1ul injection in Hexane

Compound	0.10000	0.20000	0.40000	0.60000	0.80000	1.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
<i>unit in ppm</i>	2.500							
	Level 7							
=====								
M 3 toxaphene *	+++++	+++++	+++++	0.16464	+++++	+++++		
	+++++						0.16464	0.000

4 toxaphene-1	+++++	+++++	+++++	0.05826	+++++	+++++		
	+++++						0.05826	0.000

5 toxaphene-2	+++++	+++++	+++++	0.04119	+++++	+++++		
	+++++						0.04119	0.000

6 toxaphene-3	+++++	+++++	+++++	0.03150	+++++	+++++		
	+++++						0.03150	0.000

7 toxaphene-4	+++++	+++++	+++++	0.03369	+++++	+++++		
	+++++						0.03369	0.000

8 a-BHC	1.94685	2.03442	2.22354	2.14186	2.19265	2.23174		
	2.29842						2.15278	5.707

9 g-BHC	1.86443	1.92120	2.08465	1.99413	2.03517	2.06604		
	2.11167						2.01104	4.494

* Calibration level : 6.0 ppm

*6m
5/20/09*

*6m
5/20/09*

Method: Mod. TO-4A/TO-10A

80

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: 1	Endrin Front: 2.31% Back: 2.25%
1685-320-50	Decafluorodiphenyl Ether	Front: 19926643419 Back: 6349112896	DDT Front: 3.12% Back: 2.51%
NA	NA	Front: NA Back: 1	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	0051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
✓	02	1685-143-0.8 m/dil	2				1548		
X	03	1685-135-0.6 Post	3				1615		ccv ↑
✓	04	Hexane Blank	4				1642		
✓	05	1685-135-0.1	5		RTN/LA		1730		Level 1
✓	06	-0.2	6				1757		Level 2
✓	07	-0.4	7				1823		Level 3, ccv
✓	08	-0.6	8				1850		Level 4
✓	09	-0.8	9				1917		Level 5
✓	10	-1.0	10				1943		Level 6
✓	11	✓ -5.0, 50:100	11				2010		Level 7, 2.5 ppm
✓	12	1685-127-6.0, TOX	12				2037		TOX
✓	13	1685-109A-1.0	13				2104		LCS money
✓	14	1685-136-0.4	14				2130		LCS
✓	15	Hexane Blank	15				2157		
✓	16	0905142A-Blank	16				2328		
✓	17	-LCS	17			✓	2355		LCS
✓	18	-OIA	18			5/20/09	0021		
✓	19	-CIAA	18				0048		
✓	20	✓ -OYA	19				0115		
✓	21	1685-135-0.4	20				0142		
✓	22	Hexane Blank	21				0208		
✓	23	0905261A-Blank	22				0235		
✓	✓ 24	✓ -LCS	23	✓	✓	✓	0302		LCS

Calculation Check:

File ID: 0051914Compound: g-BHCInitials: am

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{AVG}}} = \frac{9829798842 \times (2.100)}{21268438302 \times (2.25192)} = 2.59350$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.35742) \times (1000) \times (1.00)}{(1000)} = 0.35742$$

0.35742

0.35742

Reported Result = 0.3574am

Signed

5/20/09

Date

Revised: 02/27/06

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902.d

Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN

Inj Date : 19-MAY-2009 15:48

Operator : LA Inst ID: gcp.i

Smp Info : 1685-143-0.8

Misc Info : None

Comment : Primary Column, RTX-CLPesticides II

Method : /chem/gcp.i/19May2009.b/BREAK.m

Meth Date : 29-Apr-2009 09:16 lantonic Quant Type: ESTD

Cal Date : Cal File:

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie Compound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

		CONCENTRATIONS			
		ON-COLUMN		FINAL	
Compounds	RT	EXP RT	DLT RT	RESPONSE (area)	(area)
M 1 Total DDT				9907148577	
M 2 Total Endrin				11771148865	
3 p,p'-DDE	10.867	11.033	-0.166	52545510	
4 Endrin	11.596	11.674	-0.078	11499305683	
5 p,p'-DDD	11.758	11.836	-0.078	256731395	
6 p,p'-DDT	12.207	12.236	-0.029	9597871672	
7 Endrin Aldehyde	12.403	12.433	-0.030	86207858	
8 Endrin Ketone	13.532	13.699	-0.167	185635323	

Endrin Breakdown = $\frac{86207858 + 185635323}{11771148865} \times 100 = 2.31\%$

DDT Breakdown = $\frac{52545510 + 256731395}{9907148577} \times 100 = 3.12\%$

Report Date: 20-May-2009 08:21

run 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902b.d

Lab Smp Id: 1685-143-0.8

Client Smp ID: BREAKDOWN

Inj Date : 19-MAY-2009 15:48

Operator : LA

Inst ID: gcp.i

Smp Info : 1685-143-0.8

Misc Info : None

Comment : Confirmation Column, RTX-CLPesticides

Method : /chem/gcp.i/19May2009.b/BREAK.m/BREAKB.m

Meth Date : 30-Jul-2003 09:29 lizhang

Quant Type: ESTD

Cal Date :

Cal File:

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3092786588		
M 2 Total Endrin				3417949801		
3 p,p'-DDE	10.240	10.260	-0.020	13604321		
4 Endrin	11.096	11.113	-0.017	3341046962		
5 p,p'-DDD	11.184	11.204	-0.020	64059536		
6 p,p'-DDT	11.593	11.768	-0.175	3015122731		
7 Endrin Aldehyde	12.047	12.227	-0.180	12336504		
8 Endrin Ketone	13.048	13.227	-0.179	64566333		

$$\text{Endrin Breakdown} = \frac{12336504 + 64566333}{3417949801} \times 100 = 2.25\%$$

$$\text{DDT Breakdown} = \frac{13604321 + 64059536}{3092786588} \times 100 = 2.51\%$$

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 19May2009
 Sample Matrix: GAS Fraction:
 Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
 Level: LOW Operator: LA/rn
 Data Type: GC DATA SampleType: LCS
 SpikeList File: 1050-159.spk Quant Type: ISTD
 Sublist File: pestCCV.sub
 Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
 Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.8000	0.6413	80.16*	85-115
8 a-BHC	0.4000	0.3682	92.05	85-115
10 b-BHC	0.4000	0.3596	89.91	85-115
9 g-BHC	0.4000	0.3511	87.77	85-115
11 d-BHC	0.4000	0.3602	90.04	85-115
12 Heptachlor	0.4000	0.3720	93.01	85-115
13 Aldrin	0.4000	0.3671	91.77	85-115
14 Heptachlor Epoxide	0.4000	0.3720	93.00	85-115
18 Endosulfan I	0.4000	0.3865	96.64	85-115
17 DDE	0.8000	0.7371	92.14	85-115
19 Dieldrin	0.8000	0.7529	94.12	85-115
20 Endrin	0.8000	0.7346	91.83	85-115
22 Endosulfan II	0.8000	0.7348	91.85	85-115
21 DDD	0.8000	0.7468	93.35	85-115
24 Endrin Aldehyde	0.8000	0.6537	81.71*	85-115
26 Endosulfan Sulfate	0.8000	0.7142	89.27	85-115
23 DDT	0.8000	0.7417	92.71	85-115
27 Endrin Ketone	0.8000	0.6851	85.63	85-115
16 a-Chlordane	0.4000	0.3654	91.35	85-115
15 g-Chlordane	0.4000	0.3590	89.76	85-115
25 Methoxychlor	4.000	3.663	91.57	85-115
\$ 28 DCB	1.600	1.235	77.19*	85-115

avg : 89.86 mns/2009

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.7000	0.6413	80.16	60-120
\$ 28 DCB	1.100	1.235	77.19	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051914b.d
Lab Smp Id: 1685-136-0.4-4.0Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:30
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-136-0.4-4.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 20-May-2009 08:19 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d
Als bottle: 1QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.847	5.845	(0.372)	3367220304	0.64131	0.6413(R)
8 a-BHC	6.722	6.720	(0.427)	2640423232	0.36821	0.3682
9 g-BHC	7.245	7.242	(0.461)	2351882453	0.35109	0.3511
10 b-BHC	7.389	7.386	(0.470)	968359722	0.35965	0.3596
11 d-BHC	7.705	7.701	(0.490)	2270691936	0.36017	0.3602
12 Heptachlor	8.064	8.062	(0.513)	2299782944	0.37202	0.3720
13 Aldrin	8.612	8.609	(0.548)	2197352608	0.36708	0.3671
14 Heptachlor Epoxide	9.693	9.691	(0.616)	1971659424	0.37201	0.3720
15 g-Chlordane	9.903	9.901	(0.630)	2009690592	0.35903	0.3590
16 a-Chlordane	10.124	10.121	(0.644)	1969700451	0.36542	0.3654
18 Endosulfan I	10.354	10.352	(0.658)	1942126574	0.38655	0.3865
17 DDE	10.242	10.240	(0.651)	3655409182	0.73709	0.7371
19 Dieldrin	10.737	10.734	(0.683)	4080182368	0.75293	0.7529
20 Endrin	11.100	11.098	(0.706)	3531507449	0.73464	0.7346
21 DDD	11.185	11.183	(0.711)	3182726272	0.74677	0.7468
22 Endosulfan II	11.441	11.438	(0.728)	3350391440	0.73478	0.7348
23 DDT	11.597	11.595	(0.738)	3495515395	0.74167	0.7417
24 Endrin Aldehyde	12.050	12.048	(0.766)	2502635566	0.65368	0.6537(R)
26 Endosulfan Sulfate	12.663	12.661	(0.805)	2999481475	0.71418	0.7142
25 Methoxychlor	12.278	12.275	(0.781)	7693346518	3.66282	3.663
27 Endrin Ketone	13.051	13.049	(0.830)	3582885696	0.68508	0.6851

Compounds	CONCENTRATIONS						
				RESPONSE	ON-COLUMN	FINAL	
	RT	EXP RT	REL RT		(ug)	(ug)	
=====	==	=====	=====	=====	=====	=====	
\$ 28 DCB	14.399	14.396	(0.916)	5179038862	1.23511	1.235(R)	
* 29 Decachlorodiphenyl Ether	15.725	15.720	(1.000)	6662073971	2.00000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051914b.d

Calibration Time: 18:23

Lab Smp Id: 1685-136-0.4-4.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	6349112896	3174556448	12698225792	6662073971	4.93
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 19May2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 1685-136-0.4-4.0	Client Smp ID: LCS
Level: LOW	Operator: LA/rn
Data Type: GC DATA	SampleType: LCS
SpikeList File: 1050-159.spk	Quant Type: ISTD
Sublist File: pestCCV.sub	
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.8000	0.6413	80.16*	85-115
8 a-BHC	0.4000	0.3682	92.05	85-115
10 b-BHC	0.4000	0.3596	89.91	85-115
9 g-BHC	0.4000	0.3511	87.77	85-115
11 d-BHC	0.4000	0.3602	90.04	85-115
12 Heptachlor	0.4000	0.3720	93.01	85-115
13 Aldrin	0.4000	0.3671	91.77	85-115
14 Heptachlor Epoxide	0.4000	0.3720	93.00	85-115
18 Endosulfan I	0.4000	0.3865	96.64	85-115
17 DDE	0.8000	0.7371	92.14	85-115
19 Dieldrin	0.8000	0.7529	94.12	85-115
20 Endrin	0.8000	0.7346	91.83	85-115
22 Endosulfan II	0.8000	0.7348	91.85	85-115
21 DDD	0.8000	0.7468	93.35	85-115
24 Endrin Aldehyde	0.8000	0.6537	81.71*	85-115
26 Endosulfan Sulfate	0.8000	0.7142	89.27	85-115
23 DDT	0.8000	0.7417	92.71	85-115
27 Endrin Ketone	0.8000	0.6851	85.63	85-115
16 a-Chlordane	0.4000	0.3654	91.35	85-115
15 g-Chlordane	0.4000	0.3590	89.76	85-115
25 Methoxychlor	4.000	3.663	91.57	85-115
\$ 28 DCB	1.600	1.235	77.19*	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.7000	0.6413	80.16	60-120
\$ 28 DCB	1.100	1.235	77.19	60-120

Data File: /chem/gcp.i/19May2009.b/P051914b.d

Date : 19-May-2009 21:30

Client ID: LCS

Sample Info: 1685-136-0.4-4.0

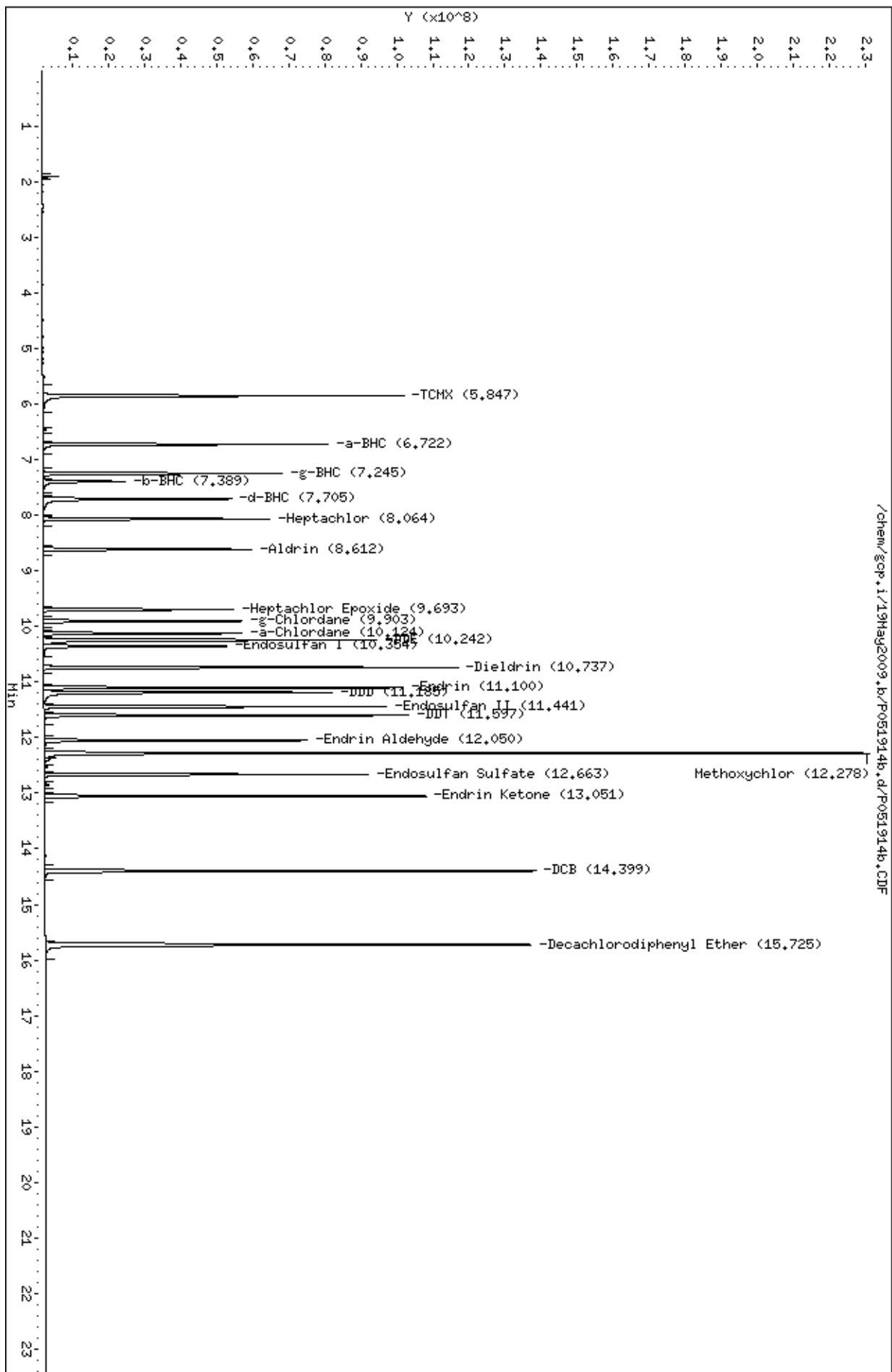
Page 1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051913b.d
Lab Smp Id: 1685-109A-1.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:04
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-109A-1.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
=====	==	=====	=====	=====		(ug)	(ug)
\$ 2 TCMX				Compound Not Detected.			
168 Mirex	12.524	12.522	(0.796)	3350294261		0.97831	0.9783
\$ 28 DCB				Compound Not Detected.			
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6648693480		2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051913b.d

Calibration Time: 18:23

Lab Smp Id: 1685-109A-1.0

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	6349112896	3174556448	12698225792	6648693480	4.72
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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: 19May2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 1685-109A-1.0	Client Smp ID: LCS
Level: LOW	Operator: LA/rn
Data Type: GC DATA	SampleType: LCS
SpikeList File: mirex.spk	Quant Type: ISTD
Sublist File: mirex.sub	
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
168 Mirex	1.000	0.9783	97.83	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	0.000	*	60-120
\$ 28 DCB	0.6000	0.000	*	60-120

Data File: /chem/gcp.i/19May2009.b/P051913b.d

Date : 19-May-2009 21:04

Client ID: LCS

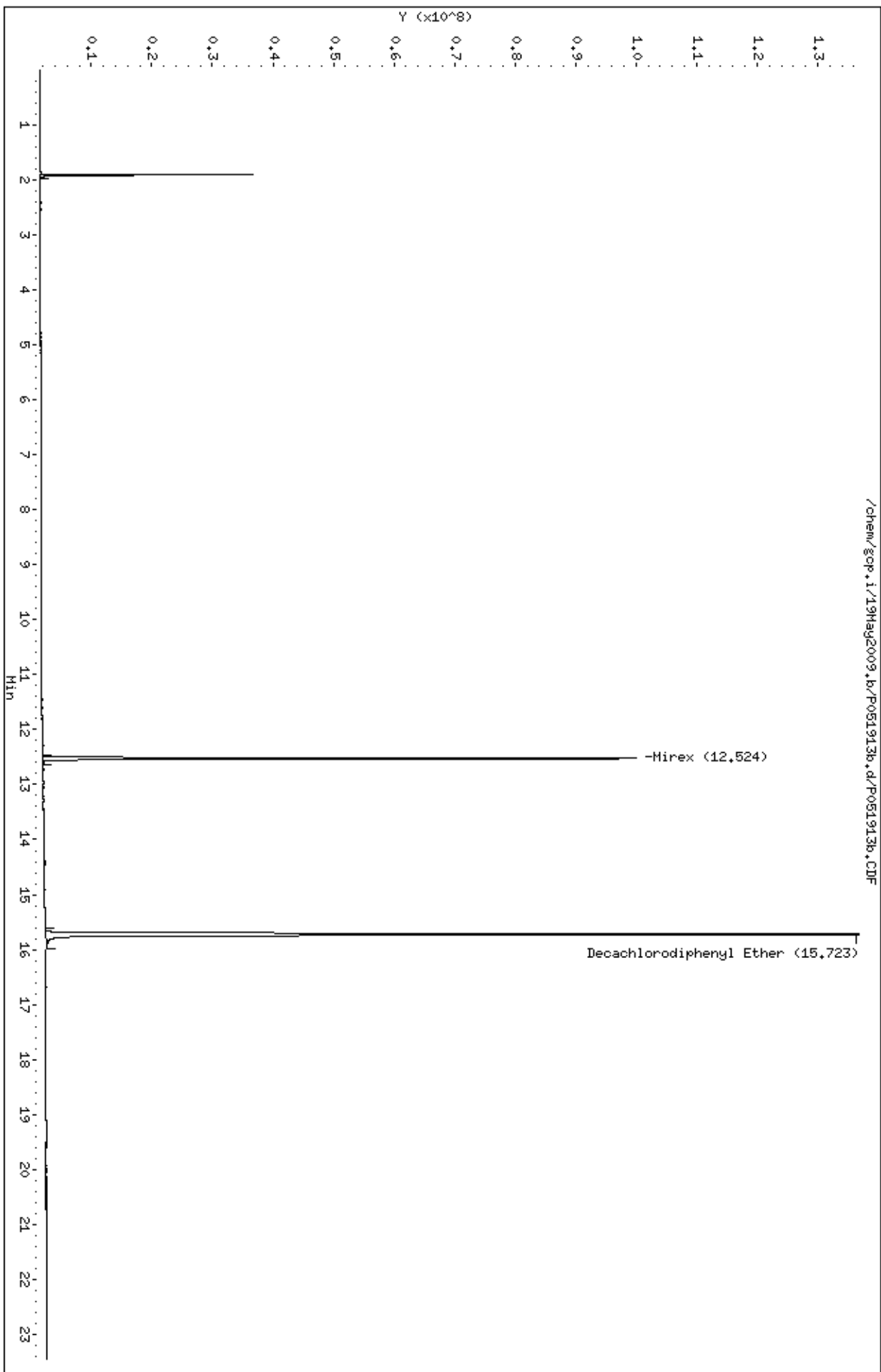
Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051905b.d
Lab Smp Id: 1685-135-0.1
Inj Date : 19-MAY-2009 17:30
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.1
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 17:30Cal File: P051905b.d
Als bottle: 1Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.836	5.845	(0.371)	974163072	0.20000	0.1951
8 a-BHC	6.711	6.720	(0.427)	604954480	0.10000	0.09336
9 g-BHC	7.234	7.242	(0.460)	579343968	0.10000	0.09442
10 b-BHC	7.380	7.386	(0.469)	252603949	0.10000	0.09863
11 d-BHC	7.694	7.701	(0.489)	533340432	0.10000	0.09282
12 Heptachlor	8.054	8.062	(0.512)	554300864	0.10000	0.09557
13 Aldrin	8.601	8.609	(0.547)	527628535	0.10000	0.09479
14 Heptachlor Epoxide	9.685	9.691	(0.616)	486304216	0.10000	0.09655
15 g-Chlordane	9.895	9.901	(0.629)	495550238	0.10000	0.09513
16 a-Chlordane	10.116	10.121	(0.644)	486458714	0.10000	0.09606
18 Endosulfan I	10.348	10.352	(0.658)	456173739	0.10000	0.09547
17 DDE	10.236	10.240	(0.651)	437375930	0.10000	0.09513
19 Dieldrin	10.730	10.734	(0.683)	482153792	0.10000	0.09500
20 Endrin	11.095	11.098	(0.706)	433951570	0.10000	0.09569
21 DDD	11.181	11.183	(0.711)	365739893	0.10000	0.09329
22 Endosulfan II	11.435	11.438	(0.727)	427571120	0.10000	0.09661
23 DDT	11.593	11.595	(0.737)	412442944	0.10000	0.09465
24 Endrin Aldehyde	12.046	12.048	(0.766)	359664128	0.10000	0.09820
26 Endosulfan Sulfate	12.659	12.661	(0.805)	383518286	0.10000	0.09659
25 Methoxychlor	12.275	12.275	(0.781)	2000984676	1.00000	0.9947
168 Mirex	12.520	12.522	(0.796)	332986148	0.10000	0.1001

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.048	13.049	(0.830)	488178532	0.10000	0.09759
\$ 28 DCB	14.396	14.396	(0.916)	807649760	0.20000	0.1993
* 29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6214695272	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051905b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.1

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6214695272	-2.12

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/19May2009.b/P051905b.d

Date : 19-May-2009 17:30

Client ID:

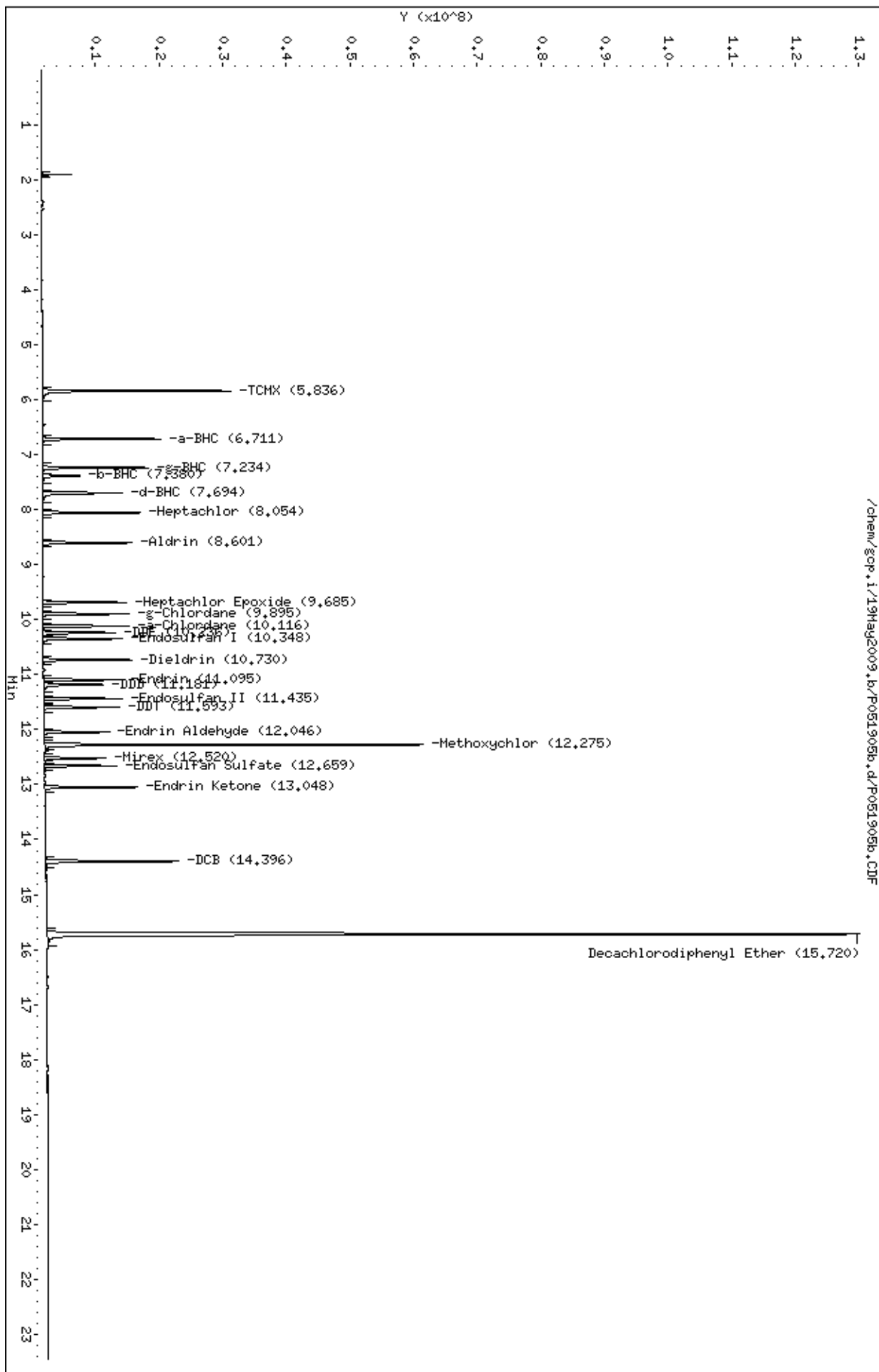
Sample Info: 1685-135-0.1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051906b.d
Lab Smp Id: 1685-135-0.2
Inj Date : 19-MAY-2009 17:57
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.2
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 17:57Cal File: P051906b.d
Als bottle: 1Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.843	5.845	(0.372)	2075146528	0.40000	0.3937
8 a-BHC	6.718	6.720	(0.427)	1345353136	0.20000	0.1967
9 g-BHC	7.240	7.242	(0.461)	1270482275	0.20000	0.1964
10 b-BHC	7.386	7.386	(0.470)	524045481	0.20000	0.1948
11 d-BHC	7.701	7.701	(0.490)	1172031296	0.20000	0.1944
12 Heptachlor	8.060	8.062	(0.513)	1214431424	0.20000	0.1978
13 Aldrin	8.606	8.609	(0.547)	1165852488	0.20000	0.1979
14 Heptachlor Epoxide	9.689	9.691	(0.616)	1051107836	0.20000	0.1974
15 g-Chlordane	9.899	9.901	(0.630)	1084188274	0.20000	0.1970
16 a-Chlordane	10.120	10.121	(0.644)	1052466532	0.20000	0.1968
18 Endosulfan I	10.351	10.352	(0.658)	1008077573	0.20000	0.1988
17 DDE	10.240	10.240	(0.651)	926118806	0.20000	0.1927
19 Dieldrin	10.733	10.734	(0.683)	1059718960	0.20000	0.1975
20 Endrin	11.096	11.098	(0.706)	949126628	0.20000	0.1978
21 DDD	11.184	11.183	(0.711)	803914073	0.20000	0.1951
22 Endosulfan II	11.437	11.438	(0.728)	917886576	0.20000	0.1966
23 DDT	11.595	11.595	(0.738)	903041296	0.20000	0.1965
24 Endrin Aldehyde	12.047	12.048	(0.766)	762430336	0.20000	0.1971
26 Endosulfan Sulfate	12.660	12.661	(0.805)	816839936	0.20000	0.1955
25 Methoxychlor	12.276	12.275	(0.781)	4180260941	2.00000	1.968
168 Mirex	12.521	12.522	(0.797)	681917989	0.20000	0.1950

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.048	13.049	(0.830)	1040233888	0.20000	0.1969
\$ 28 DCB	14.395	14.396	(0.916)	1666047600	0.40000	0.3908
* 29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6612955283	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051906b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.2

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6612955283	4.16

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/19May2009.b/P051906b.d

Date : 19-May-2009 17:57

Client ID:

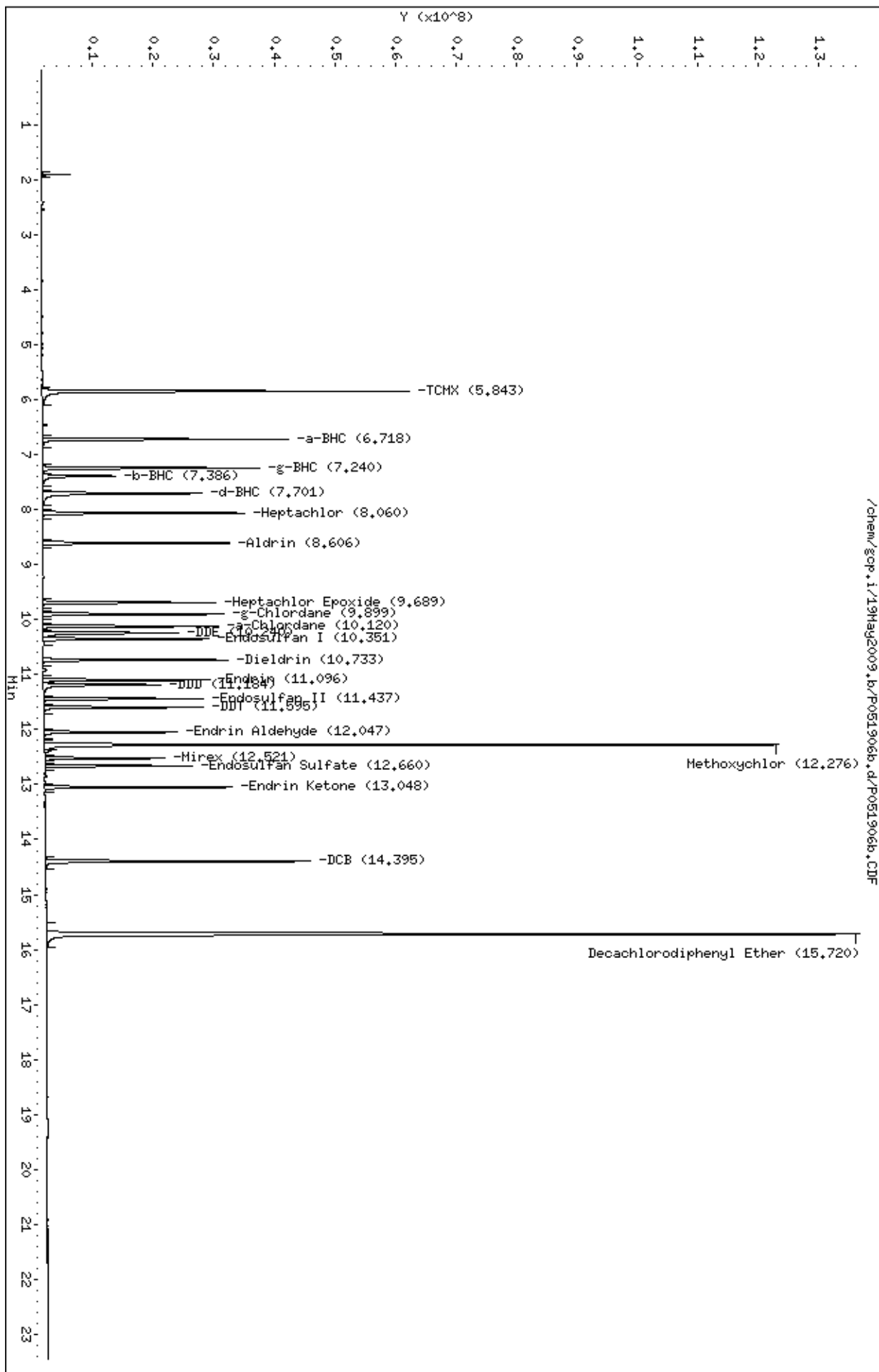
Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051907b.d
Lab Smp Id: 1685-135-0.4
Inj Date : 19-MAY-2009 18:23
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.4
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:00 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 18:23Cal File: P051907b.d
Als bottle: 1Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.845	(0.372)	4180464976	0.80000	0.8000
8 a-BHC	6.720	6.720	(0.427)	2823498624	0.40000	0.4000
9 g-BHC	7.242	7.242	(0.461)	2647135330	0.40000	0.4000
10 b-BHC	7.386	7.386	(0.470)	1060934845	0.40000	0.4000
11 d-BHC	7.701	7.701	(0.490)	2516823344	0.40000	0.4000
12 Heptachlor	8.062	8.062	(0.513)	2474908496	0.40000	0.4000
13 Aldrin	8.609	8.609	(0.548)	2392981240	0.40000	0.4000
14 Heptachlor Epoxide	9.691	9.691	(0.616)	2129120176	0.40000	0.4000
15 g-Chlordane	9.901	9.901	(0.630)	2232419654	0.40000	0.4000
16 a-Chlordane	10.121	10.121	(0.644)	2150840608	0.40000	0.4000
18 Endosulfan I	10.352	10.352	(0.658)	2041133282	0.40000	0.4000
17 DDE	10.240	10.240	(0.651)	1970473182	0.40000	0.4000
19 Dieldrin	10.734	10.734	(0.683)	2177850696	0.40000	0.4000
20 Endrin	11.098	11.098	(0.706)	1933242758	0.40000	0.4000
21 DDD	11.183	11.183	(0.711)	1709664887	0.40000	0.4000
22 Endosulfan II	11.438	11.438	(0.728)	1869733401	0.40000	0.4000
23 DDT	11.595	11.595	(0.738)	1876017129	0.40000	0.4000
24 Endrin Aldehyde	12.048	12.048	(0.766)	1523535264	0.40000	0.4000
26 Endosulfan Sulfate	12.661	12.661	(0.805)	1677935294	0.40000	0.4000
25 Methoxychlor	12.275	12.275	(0.781)	8263659710	4.00000	4.000
168 Mirex	12.522	12.522	(0.797)	1358373376	0.40000	0.4000

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.049	13.049	(0.830)	2093598977	0.40000	0.4000
\$ 28 DCB	14.396	14.396	(0.916)	3323175741	0.80000	0.8000
* 29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6349112896	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051907b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.4

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6349112896	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/19May2009.b/P051907b.d

Date : 19-May-2009 18:23

Client ID:

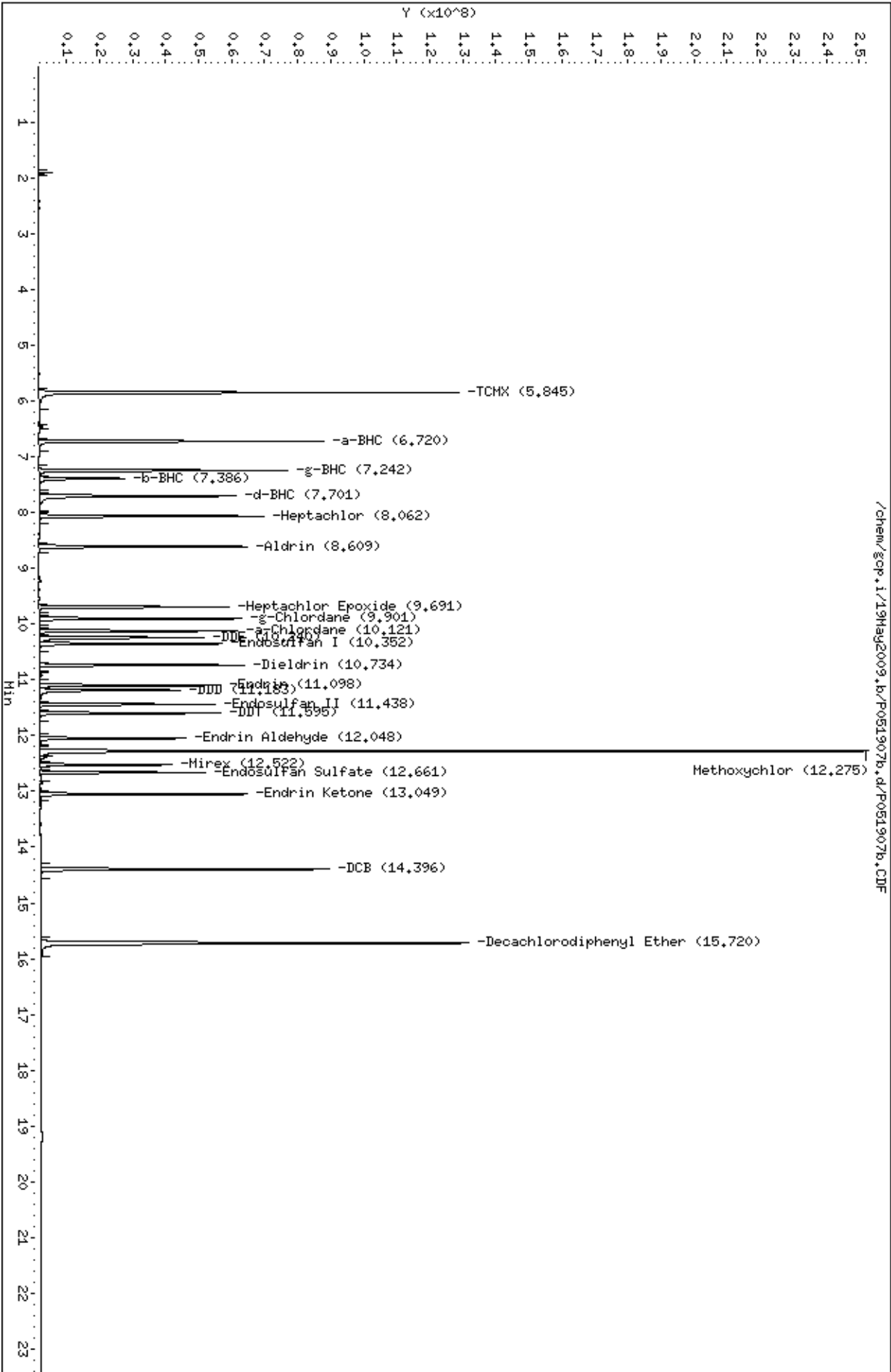
Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Report Date: 19-May-2009 16:10

Air Toxics Ltd.

Pesticides Analysis, dual ECD

```
Data file : /chem/gcp.i/19May2009.b/P051912b.d
Lab Smp Id: 1685-127-6.0
Inj Date  : 19-MAY-2009 20:37
Operator   : LA/rn                      Inst ID: gcp.i
Smp Info   : 1685-127-6.0
Misc Info  : None
Comment    : Back column, Rtx-CLPesticides
Method     : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date  : 19-May-2009 16:10 rnoonan   Quant Type: ISTD
Cal Date   : 19-MAY-2009 20:37          Cal File: P051912b.d
Als bottle: 1                          Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie                   Compound Sublist: tox.sub
Target Version: 3.50
Processing Host: eeyore
```

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
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2	2
3	3
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5	5
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84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

					AMOUNTS		
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
		(ug)	(ug)				
Compounds							
=====		==	=====	=====	=====	=====	=====
M	3 toxaphene				3358017626	6.00000	6.000
	4 toxaphene-1	11.522	11.539	(0.733)	1188267372	6.00000	6.000
	5 toxaphene-2	11.916	11.932	(0.758)	840083643	6.00000	6.000
	6 toxaphene-3	12.188	12.192	(0.775)	642484837	6.00000	6.000
	7 toxaphene-4	12.837	12.853	(0.816)	687181772	6.00000	6.000
*	29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6798657433	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051912b.d

Calibration Time: 18:23

Lab Smp Id: 1685-127-6.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6798657433	7.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/19May2009.b/P051912b.d

Date : 19-May-2009 20:37

Client ID:

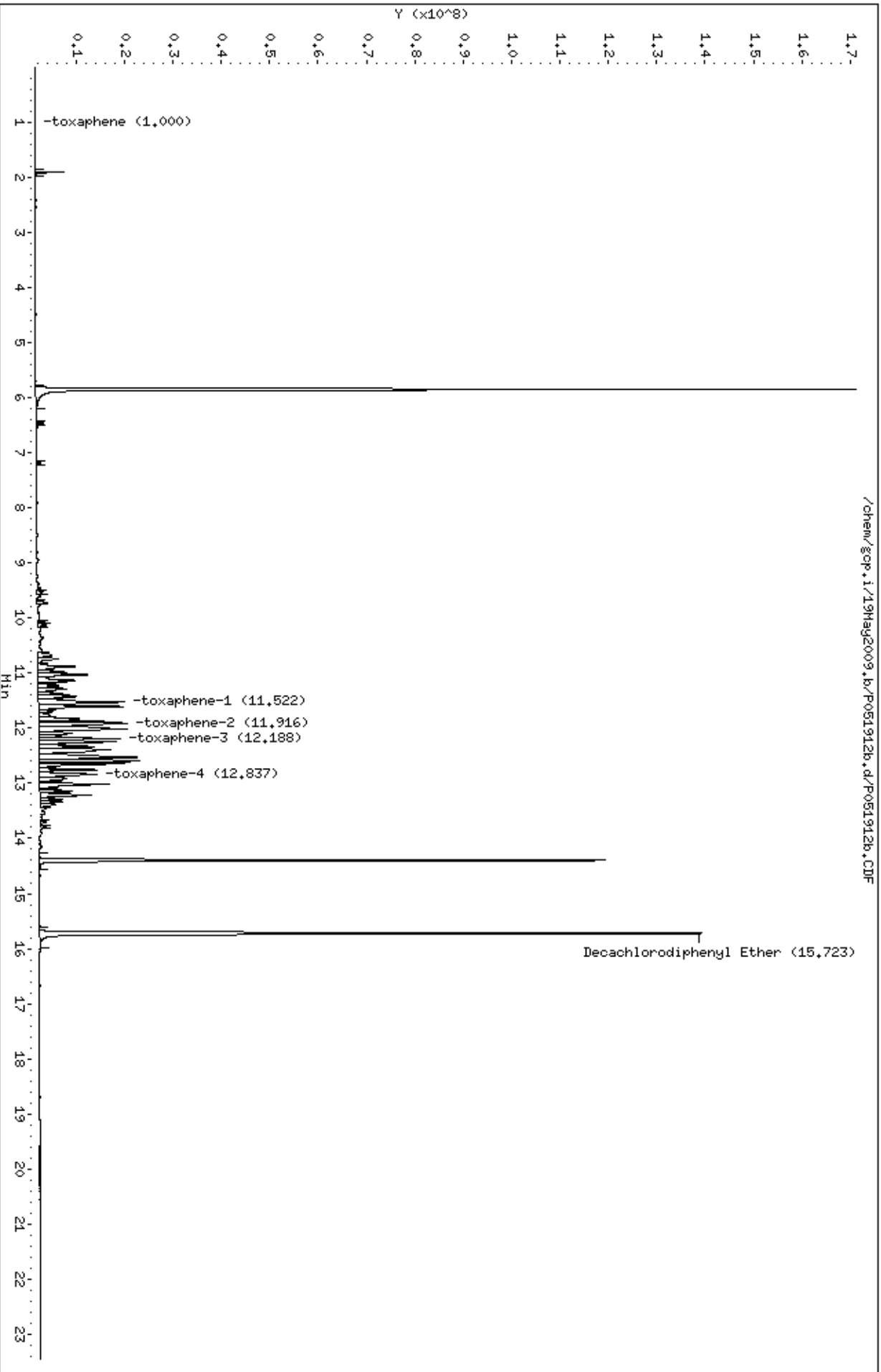
Sample Info: 1685-127-6.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051908b.d
Lab Smp Id: 1685-135-0.6
Inj Date : 19-MAY-2009 18:50
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.6
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 18:50Cal File: P051908b.d
Als bottle: 1Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.845	(0.372)	6081364960	1.20000	1.181
8 a-BHC	6.720	6.720	(0.427)	4172397648	0.60000	0.6159
9 g-BHC	7.243	7.242	(0.461)	3884612499	0.60000	0.6086
10 b-BHC	7.386	7.386	(0.470)	1534822094	0.60000	0.5856
11 d-BHC	7.701	7.701	(0.490)	3724026144	0.60000	0.6215
12 Heptachlor	8.063	8.062	(0.513)	3589842064	0.60000	0.5967
13 Aldrin	8.610	8.609	(0.548)	3485013040	0.60000	0.6018
14 Heptachlor Epoxide	9.692	9.691	(0.616)	3061867680	0.60000	0.5891
15 g-Chlordane	9.902	9.901	(0.630)	3235802560	0.60000	0.5992
16 a-Chlordane	10.122	10.121	(0.644)	3108144616	0.60000	0.5940
18 Endosulfan I	10.353	10.352	(0.658)	2912626337	0.60000	0.5887
17 DDE	10.240	10.240	(0.651)	2880275447	0.60000	0.6078
19 Dieldrin	10.735	10.734	(0.683)	3143379264	0.60000	0.5974
20 Endrin	11.099	11.098	(0.706)	2784803490	0.60000	0.5932
21 DDD	11.183	11.183	(0.711)	2485551918	0.60000	0.6106
22 Endosulfan II	11.439	11.438	(0.728)	2603493606	0.60000	0.5756
23 DDT	11.596	11.595	(0.738)	2741136797	0.60000	0.6055
24 Endrin Aldehyde	12.049	12.048	(0.766)	2194732912	0.60000	0.5831
26 Endosulfan Sulfate	12.662	12.661	(0.805)	2397657563	0.60000	0.5882
25 Methoxychlor	12.276	12.275	(0.781)	11898593986	6.00000	5.777
168 Mirex	12.523	12.522	(0.797)	1936800641	0.60000	0.5727

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.050	13.049	(0.830)	3004221920	0.60000	0.5842
\$ 28 DCB	14.397	14.396	(0.916)	4771133040	1.20000	1.154
* 29 Decachlorodiphenyl Ether	15.722	15.720	(1.000)	6493404327	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051908b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.6

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6493404327	2.27

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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: /chem/gcp.i/19May2009.b/P051908b.d

Date : 19-May-2009 18:50

Client ID:

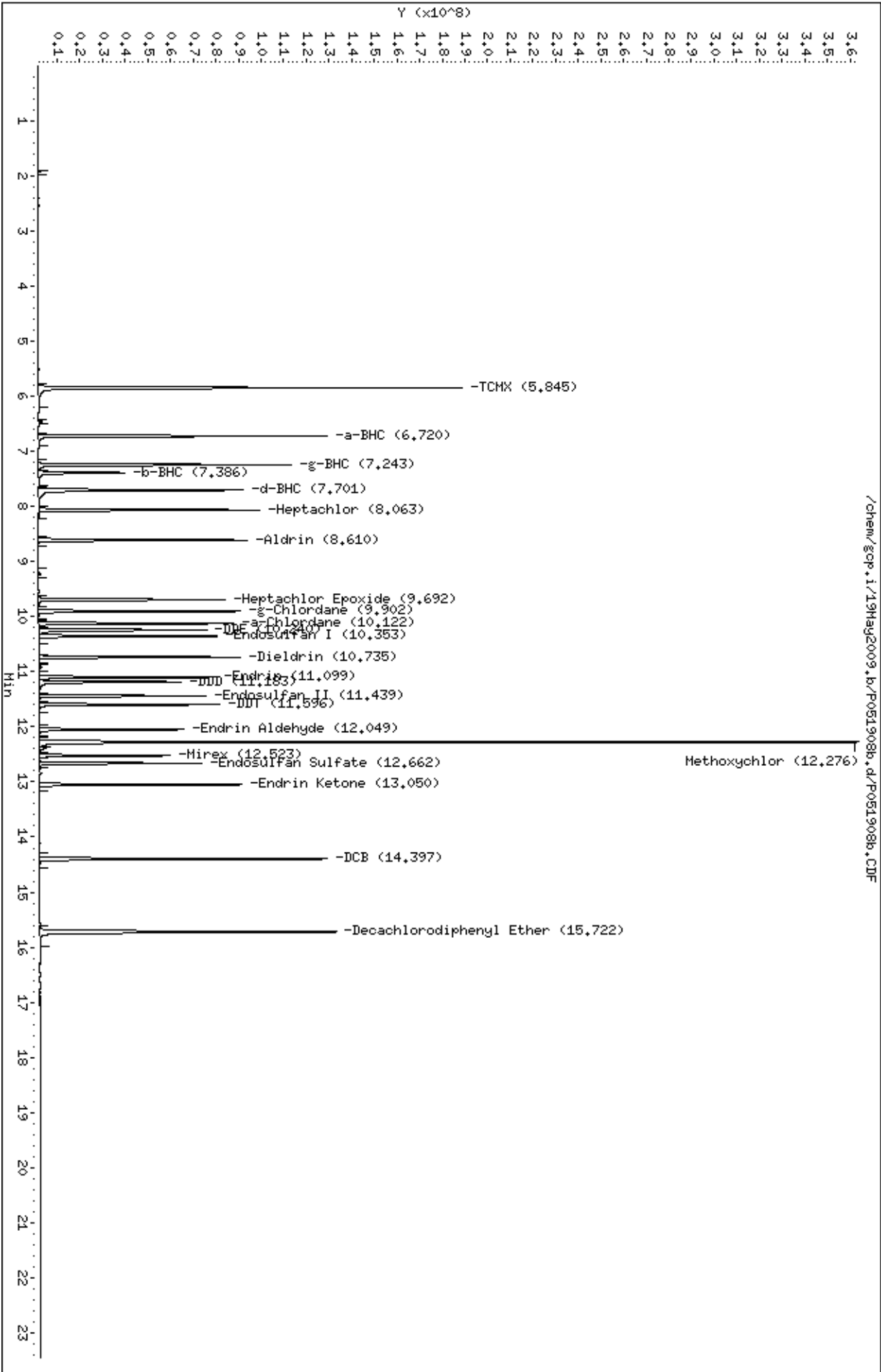
Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051909b.d
Lab Smp Id: 1685-135-0.8
Inj Date : 19-MAY-2009 19:17
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-0.8
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonicQuant Type: ISTD
Cal Date : 19-MAY-2009 19:17Cal File: P051909b.d
Als bottle: 1Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.845	(0.372)	7975048749	1.60000	1.586
8 a-BHC	6.720	6.720	(0.427)	5573471936	0.80000	0.8322
9 g-BHC	7.243	7.242	(0.461)	5173162391	0.80000	0.8223
10 b-BHC	7.386	7.386	(0.470)	2032991036	0.80000	0.7941
11 d-BHC	7.701	7.701	(0.490)	4820683083	0.80000	0.8176
12 Heptachlor	8.063	8.062	(0.513)	4732414931	0.80000	0.8030
13 Aldrin	8.610	8.609	(0.548)	4604219872	0.80000	0.8099
14 Heptachlor Epoxide	9.692	9.691	(0.616)	4024158592	0.80000	0.7929
15 g-Chlordane	9.902	9.901	(0.630)	4284137472	0.80000	0.8085
16 a-Chlordane	10.123	10.121	(0.644)	4099951725	0.80000	0.8005
18 Endosulfan I	10.354	10.352	(0.658)	3811728664	0.80000	0.7898
17 DDE	10.240	10.240	(0.651)	3823218652	0.80000	0.8194
19 Dieldrin	10.736	10.734	(0.683)	4137924410	0.80000	0.8028
20 Endrin	11.099	11.098	(0.706)	3652130738	0.80000	0.7959
21 DDD	11.183	11.183	(0.711)	3287874329	0.80000	0.8202
22 Endosulfan II	11.440	11.438	(0.728)	3406850996	0.80000	0.7755
23 DDT	11.596	11.595	(0.738)	3610923041	0.80000	0.8120
24 Endrin Aldehyde	12.049	12.048	(0.766)	2873713990	0.80000	0.7841
26 Endosulfan Sulfate	12.662	12.661	(0.805)	3168351471	0.80000	0.7954
25 Methoxychlor	12.277	12.275	(0.781)	15614061374	8.00000	7.795
168 Mirex	12.524	12.522	(0.797)	2533577810	0.80000	0.7721

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.050	13.049	(0.830)	3927506976	0.80000	0.7843
\$ 28 DCB	14.398	14.396	(0.916)	6237173926	1.60000	1.553
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6354715762	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051909b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-0.8

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6354715762	0.09

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/19May2009.b/P051909b.d

Date : 19-May-2009 19:17

Client ID:

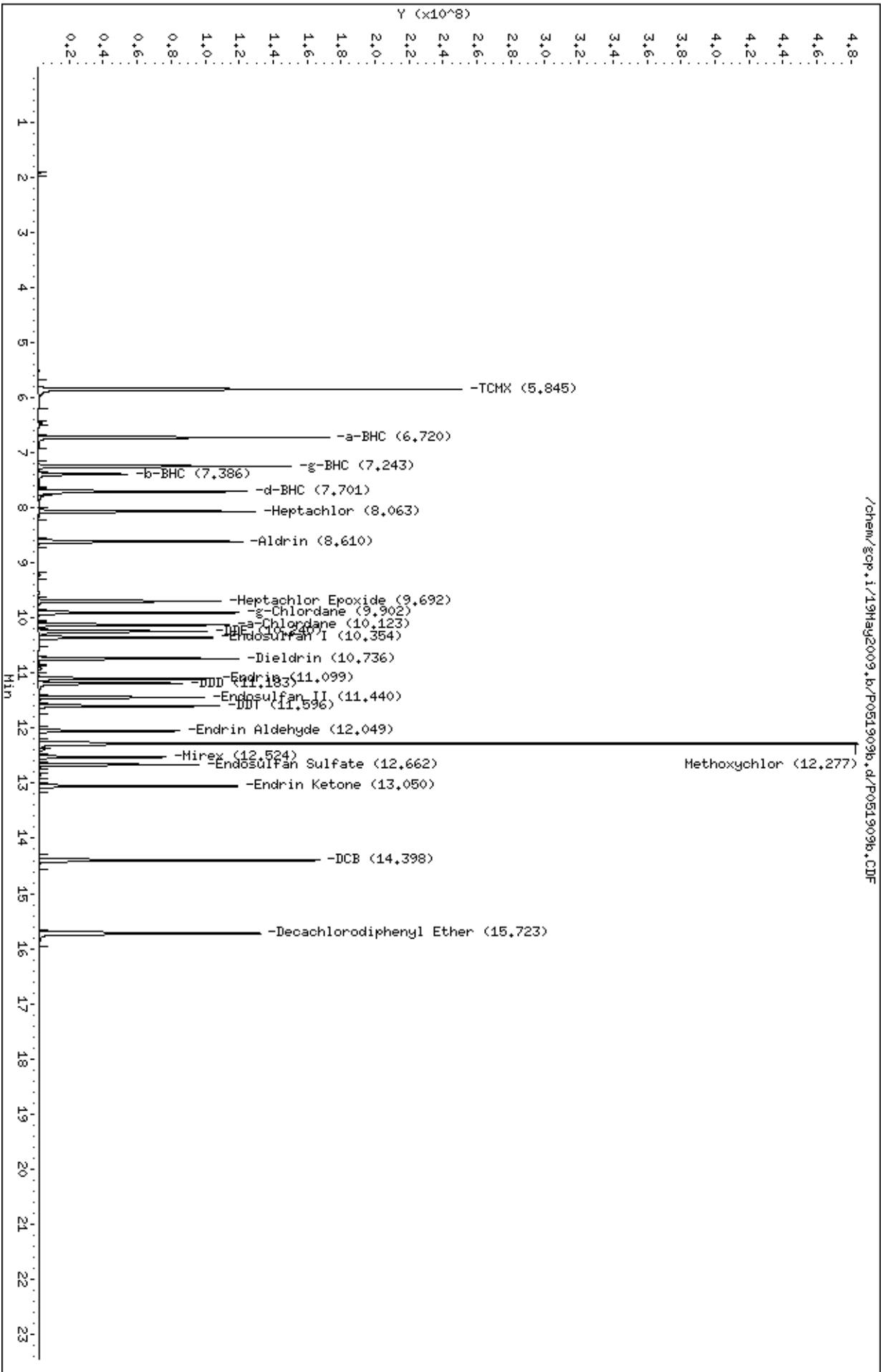
Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051910b.d

Lab Smp Id: 1685-135-1.0

Inj Date : 19-MAY-2009 19:44

Operator : LA/rn

Smp Info : 1685-135-1.0

Misc Info : None

Comment : Back column, Rtx-CLPesticides

Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Meth Date : 19-May-2009 16:10 rnoonan

Cal Date : 19-MAY-2009 19:44

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP Genie

Target Version: 3.50

Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P051910b.d

Calibration Sample, Level: 6

Compound Sublist: pestCCV+mirex.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.844	5.845	(0.372)	10291674634	2.00000	1.987
8 a-BHC	6.719	6.720	(0.427)	7312053056	1.00000	1.048
9 g-BHC	7.242	7.242	(0.461)	6769161655	1.00000	1.036(A)
10 b-BHC	7.384	7.386	(0.470)	2654063017	1.00000	1.004
11 d-BHC	7.699	7.701	(0.490)	6368261967	1.00000	1.039
12 Heptachlor	8.062	8.062	(0.513)	6161341363	1.00000	1.012(A)
13 Aldrin	8.609	8.609	(0.548)	6006659168	1.00000	1.020(A)
14 Heptachlor Epoxide	9.691	9.691	(0.616)	5224025466	1.00000	0.9985
15 g-Chlordane	9.901	9.901	(0.630)	5618986896	1.00000	1.023
16 a-Chlordane	10.122	10.121	(0.644)	5373646057	1.00000	1.014
18 Endosulfan I	10.353	10.352	(0.658)	4938571712	1.00000	0.9936
17 DDE	10.239	10.240	(0.651)	5043312855	1.00000	1.040
19 Dieldrin	10.735	10.734	(0.683)	5412940096	1.00000	1.015(A)
20 Endrin	11.099	11.098	(0.706)	4790430834	1.00000	1.010(A)
21 DDD	11.181	11.183	(0.711)	4332171745	1.00000	1.040
22 Endosulfan II	11.439	11.438	(0.728)	4366072526	1.00000	0.9696
23 DDT	11.595	11.595	(0.738)	4784530774	1.00000	1.036(A)
24 Endrin Aldehyde	12.049	12.048	(0.766)	3748465229	1.00000	0.9932
26 Endosulfan Sulfate	12.661	12.661	(0.805)	4206481968	1.00000	1.020
25 Methoxychlor	12.276	12.275	(0.781)	20686445028	10.0000	10.01
168 Mirex	12.523	12.522	(0.797)	3362708354	1.00000	0.9949

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.049	13.049	(0.830)	5144143200	1.00000	0.9968
\$ 28 DCB	14.397	14.396	(0.916)	8197237278	2.00000	1.983
* 29 Decachlorodiphenyl Ether	15.722	15.720	(1.000)	6552793955	2.00000	

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: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051910b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-1.0

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6552793955	3.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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: /chem/gcp.i/19May2009.b/Pos1910b.d

Date : 19-May-2009 19:44

Client ID:

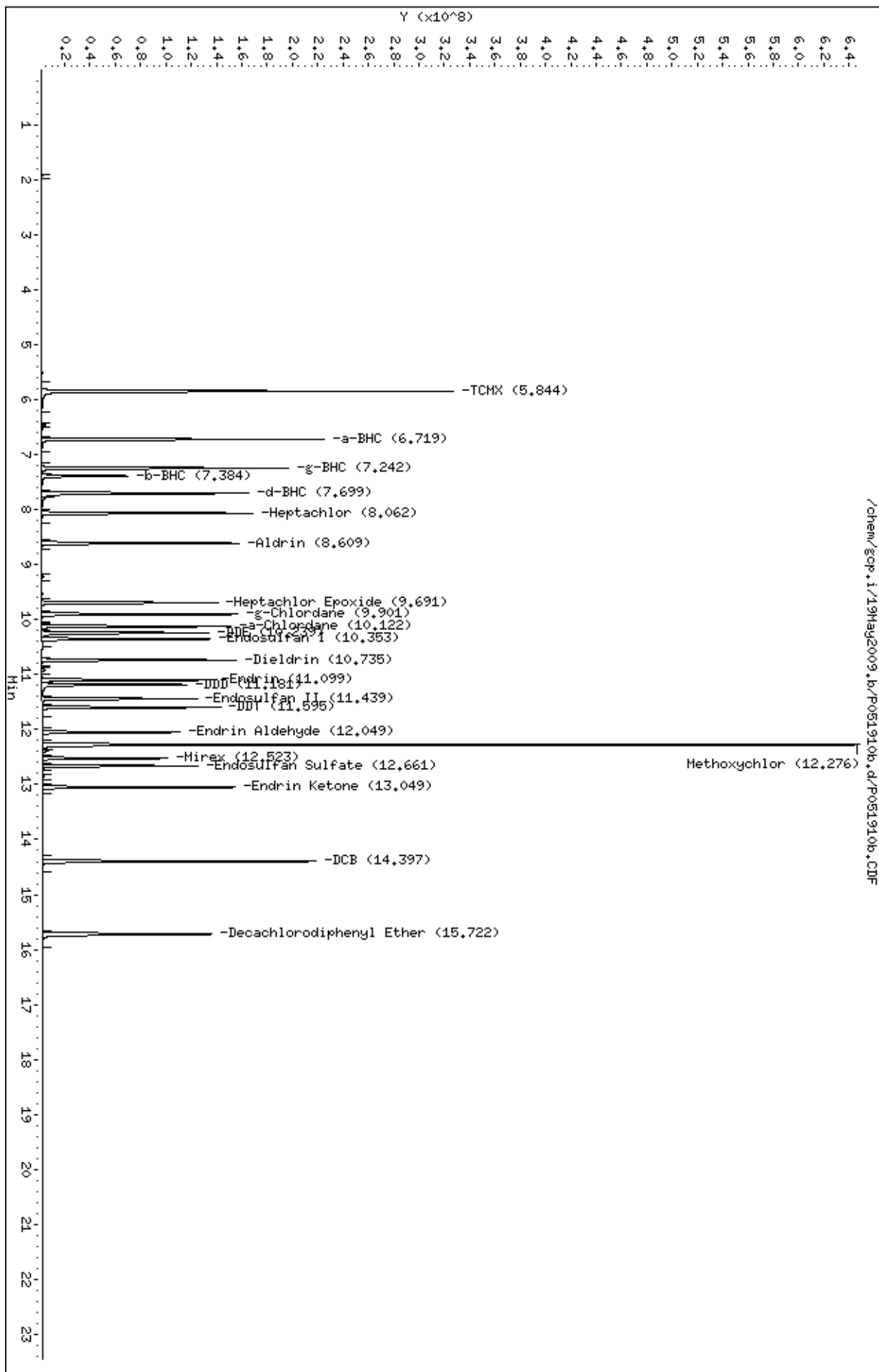
Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051911b.d
Lab Smp Id: 1685-135-2.5
Inj Date : 19-MAY-2009 20:10
Operator : LA/rnInst ID: gcp.i
Smp Info : 1685-135-2.5
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonanQuant Type: ISTD
Cal Date : 19-MAY-2009 20:10Cal File: P051911b.d
Als bottle: 1Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.845	(0.372)	24533716048	5.00000	4.920(A)
8 a-BHC	6.720	6.720	(0.427)	18179740512	2.50000	2.669
9 g-BHC	7.243	7.242	(0.461)	16702566573	2.50000	2.625(A)
10 b-BHC	7.384	7.386	(0.470)	6482396931	2.50000	2.535
11 d-BHC	7.699	7.701	(0.490)	16023262429	2.50000	2.676
12 Heptachlor	8.064	8.062	(0.513)	14524943048	2.50000	2.474(A)
13 Aldrin	8.611	8.609	(0.548)	14237808192	2.50000	2.504(A)
14 Heptachlor Epoxide	9.693	9.691	(0.616)	12316796921	2.50000	2.447
15 g-Chlordane	9.903	9.901	(0.630)	13518129762	2.50000	2.543
16 a-Chlordane	10.123	10.121	(0.644)	12876830057	2.50000	2.515
18 Endosulfan I	10.354	10.352	(0.659)	11519786096	2.50000	2.414
17 DDE	10.239	10.240	(0.651)	12179333686	2.50000	2.586
19 Dieldrin	10.736	10.734	(0.683)	12853742209	2.50000	2.497(A)
20 Endrin	11.100	11.098	(0.706)	11225904817	2.50000	2.459(A)
21 DDD	11.181	11.183	(0.711)	10485058033	2.50000	2.590
22 Endosulfan II	11.440	11.438	(0.728)	10568997382	2.50000	2.440
23 DDT	11.596	11.595	(0.738)	11436763001	2.50000	2.555(A)
24 Endrin Aldehyde	12.049	12.048	(0.766)	8969388442	2.50000	2.466
26 Endosulfan Sulfate	12.662	12.661	(0.805)	10076209881	2.50000	2.526
25 Methoxychlor	12.277	12.275	(0.781)	51231570480	25.0000	25.68
168 Mirex	12.525	12.522	(0.797)	8077273798	2.50000	2.478

Compounds	AMOUNTS					
	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.051	13.049	(0.830)	12182639200	2.50000	2.452
\$ 28 DCB	14.399	14.396	(0.916)	19639693688	5.00000	4.931(A)
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6327724829	2.00000	

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: gcp.i

Calibration Date: 19-MAY-2009

Lab File ID: P051911b.d

Calibration Time: 18:23

Lab Smp Id: 1685-135-2.5

Level: LOW

Analysis Type:

Sample Type: AIR

Quant Type: ISTD

Operator: LA/rn

Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	6349112896	3174556448	12698225792	6327724829	-0.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/19May2009.b/PO51911b.d

Date : 19-May-2009 20:10

Client ID:

Sample Info: 1685-135-2.5

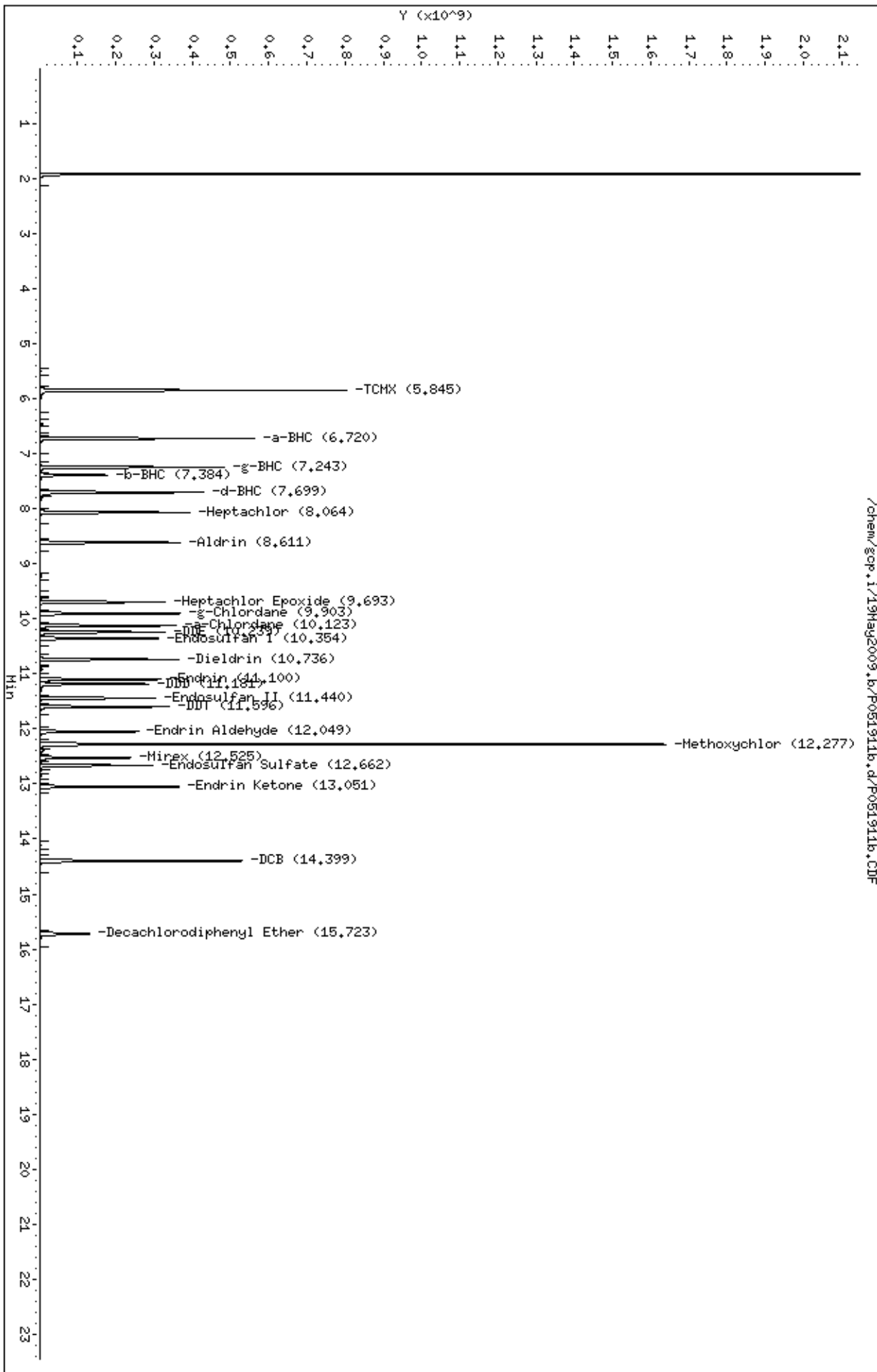
Page 1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00



INITIAL CALIBRATION DATA

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Start Cal Date   : 22-MAY-2009 19:06
End Cal Date    : 22-MAY-2009 23:59
Quant Method    : ISTD
Origin          : Disabled
Target Version  : 3.50
Integrator      : HP Genie
Method file     : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date        : 01-Jun-2009 12:44 lzhang
Curve Type      : Average
```

[illegible]

INITIAL CALIBRATION DATA

[illegible]

INITIAL CALIBRATION DATA

```
Start Cal Date   : 22-MAY-2009 19:06
End Cal Date    : 22-MAY-2009 23:59
Quant Method    : ISTD
Origin          : Disabled
Target Version  : 3.50
Integrator      : HP Genie
Method file     : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date        : 01-Jun-2009 12:44 lzhang
Curve Type      : Average
```

		1.000	3.000	5.000	8.000	10.000	12.000	—	
Compound		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
		-----	-----	-----	-----	-----	-----		
		15.000							
		Level 7							
=====		=====	=====	=====	=====	=====	=====	=====	=====
30	pcb1248-2	+++++	+++++	0.02743	+++++	+++++	+++++		
		+++++						0.02743	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
31	pcb1248-3	+++++	+++++	0.04963	+++++	+++++	+++++		
		+++++						0.04963	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
32	pcb1248-4	+++++	+++++	0.02132	+++++	+++++	+++++		
		+++++						0.02132	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
M 33	pcb1254	+++++	+++++	0.31903	+++++	+++++	+++++		
		+++++						0.31903	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
34	pcb1254-1	+++++	+++++	0.07069	+++++	+++++	+++++		
		+++++						0.07069	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
35	pcb1254-2	+++++	+++++	0.06705	+++++	+++++	+++++		
		+++++						0.06705	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
36	pcb1254-3	+++++	+++++	0.08961	+++++	+++++	+++++		
		+++++						0.08961	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
37	pcb1254-4	+++++	+++++	0.09167	+++++	+++++	+++++		
		+++++						0.09167	0.000
-----		-----	-----	-----	-----	-----	-----	-----	-----
=====		=====	=====	=====	=====	=====	=====	=====	=====
\$ 2	TCMX	1.87183	1.62611	1.62293	1.49125	1.46558	1.45848		
		1.37862						1.55926	10.552
-----		-----	-----	-----	-----	-----	-----	-----	-----
\$ 38	DCB	1.23021	1.05225	1.08607	1.00411	0.99776	1.00550		
		0.95609						1.04743	8.660

Calibration History

Method : /chem/gcp.i/22May2009.b/p09p0522.m
Start Cal Date: 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
22-MAY-2009 19:06	CCV	/chem/gcp.i/22May2009.b/P052203.d
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204.d
Cal Level: 3 , Cal Amount: 5.00000		
22-MAY-2009 23:59	1254NS	/chem/gcp.i/22May2009.b/P052214.d
22-MAY-2009 23:33	1248NS	/chem/gcp.i/22May2009.b/P052213.d
22-MAY-2009 23:06	1232NS	/chem/gcp.i/22May2009.b/P052212.d
22-MAY-2009 22:39	1221NS	/chem/gcp.i/22May2009.b/P052211.d
22-MAY-2009 19:59	CCV	/chem/gcp.i/22May2009.b/P052205.d
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206.d
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207.d
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208.d
Cal Level: 7 , Cal Amount: 15.00000		
22-MAY-2009 21:46	CCV	/chem/gcp.i/22May2009.b/P052209.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 8.00	
22-MAY-2009 20:26	/chem/gcp.i/22May2009.b/P052206a.d
Ccal Level: 4 , Ccal Amount: 8.00	
22-MAY-2009 20:26	/chem/gcp.i/22May2009.b/P052206.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:43 lzhang
Curve Type : Average

2nd Source: P052203

Calibration File Names:

- Level 1: /chem/gcp.i/22May2009.b/P052203.d
- Level 2: /chem/gcp.i/22May2009.b/P052204.d
- Level 3: /chem/gcp.i/22May2009.b/P052214.d
- Level 4: /chem/gcp.i/22May2009.b/P052206.d
- Level 5: /chem/gcp.i/22May2009.b/P052207.d
- Level 6: /chem/gcp.i/22May2009.b/P052208.d
- Level 7: /chem/gcp.i/22May2009.b/P052209.d

see Calib History

- PCB 1221 - P052211
- 1232 - P052212
- 1248 - P052213
- 1254 - P052214
- 1242 - P052215 - info only

Based on 1 ul injector

Compound	unit is ppm						RRF	% RSD
	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6		
	15.000							
	Level 7							
=====								
M 3 pcb1016/1242	0.26787 0.19543	0.24319	0.24359	0.21806	0.20847	0.20893	0.22650	11.330

4 pcb1016/1242-1	0.04399 0.03184	0.03783	0.03845	0.03492	0.03414	0.03419	0.03648	11.010

5 pcb1016/1242-2	0.11150 0.07934	0.09688	0.09655	0.08668	0.08535	0.08523	0.09165	11.806

6 pcb1016/1242-3	0.06420 0.04686	0.06599	0.06521	0.05720	0.04962	0.04987	0.05699	14.474

7 pcb1016/1242-4	0.04817 0.03740	0.04249	0.04338	0.03926	0.03936	0.03964	0.04139	8.760

M 8 pcb1260	0.43703 0.32849	0.37330	0.38315	0.35109	0.34612	0.34761	0.36669	9.803

9 pcb1260-1	0.09282 0.06673	0.07813	0.07943	0.07236	0.07100	0.07101	0.07592	11.384

non 6/1/09
6/1/09

Method: Mod. TO-4A/TO-10A

83

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: ↓	Endrin Front: NA Back: ↓
1685-320-50	Decafluorodiphenyl Ether	Front: 21320271892 Back: 62091605562	DDT Front: ↓ Back: ↓
NA	NA	Front: NA Back: ↓	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P052201	Hexane Wash	1	1.0	PCB	3/22/09	1812	LA
2	✓	02	Hexane Blank	2				1839	
3	✓	03	1685-137-1.0	3				1906	
4	✓	04	-3.0	4				1932	
5	✓	05	-5.0	5				1959	
6	✓	06	-8.0	6				2026	ccv.
7	✓	07	-10	7				2053	
8	✓	08	-12	8				2119	
9	✓	09	↓ -15	9				2146	
10	X	10	1685-128-5.0 ^{PCB}	10				2213	surv ↑
11	✓	11	1685-121-5.0 ^{PCB}	11				2239	
12	✓	12	1685-121-5.0 ^{PCB}	12				2306	
13	✓	13	↓ ,1248	13				2333	
14	✓	14	↓ ,1254	14			↓	2359	
15	✓	↓ 15	↓ ,1242	15	↓	↓	5/23/09	0026	
16									
17									
18									
19									
20									
21									
22									
23									
24									

Calculation Check:

File ID: P052206 Compound: pcb 1016/1242Initials: LA

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample}} = \frac{1892198359}{21320271892} \times (2.00) = 0.23171$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(7.66) \times (1000) \times (1.00)}{(1000)} = 7.66$$

Symon Antonielli
Signed

5/22/09

Date

Reported Result = 7.66

Revised: 02/27/06

Method: Mod. TO-4A/TO-10A

85

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: ↓	Endrin Front: 5.77% Back: 5.97%
1685-320-50	Decafluorodiphenyl Ether	Front: 18898128504 Back: 5731711199	DDT Front: 8.40% Back: 6.48%
NA	NA	Front: NA Back: ↓	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P052601 Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02 1685-137-8.0 PCB CCV	2		↓		1616		
3	✓	03 1685-133-8.0 PCB CCV	3				1643		
4	✓	04 1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05 Hexane Wash	1		non		2054		
6	✓	06 1685-143-0.8 tune	2				2120		
7	✓	07 1685-135-0.6 Pest CCV	3				2147		
8	✓	08 Hexane Blank	4				2214		
9	✓	09 0905530B-Blank	5			↓	2341		
10	X	10 Pest LCS	6			5/27/09	0008		13 Low 5/27/09 MW
11	✓	11 -05A	7				0035		
12	✓	12 -06A	8				0102		
13	✓	13 -07A	9				0128		
14	✓	14 -08A	10				0155		
15	✓	15 ↓ -08AA	10				0222		
16	✓	16 1685-135-0.6 Pest CCV	11		↓		0248		
17	✓	17 Hexane Wash	12		LA		1526		
18	✓	18 0905530B-LCS	13		↓		1553		
19	✓	19 1685-135-0.6 Pest CCV	14		↓		1620		
20	✓	20 Hexane Blank	15		non		1802		
21	✓	21 0905530A-05AA	16		↓		1829		
22	✓	22 ↓ 1685-135-0.6 Pest CCV	17	↓	↓	↓	1855		
23									
24							LA 5/27/09		

Calculation Check:

File ID: V052619 Compound: a-BHCInitials: non

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{Avg}}} = \frac{16405387052 \times (2.00)}{18047703541 (2.78691)} = 0.65234$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.65234) \times (1000) \times (1)}{(1000)} = 0.65234$$

Reported Result = _____

Signed

Date

Revised: 02/27/06

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/26May2009.b/P052603.d
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Inj Date : 26-MAY-2009 16:43
Operator : LA Inst ID: gcp.i
Smp Info : 1685-153-8.0 PCB LCS
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/26May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 13:09 lantonic Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

CONCENTRATIONS						
		ON-COLUMN			FINAL	
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(uG)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.028	6.029	(0.352)	22129849380	1.55839	1.56
M 3 pcb1016/1242				14731431894	7.14144	7.14
4 pcb1016/1242-1	7.441	7.442	(0.435)	2470468669	7.43612	7.44
5 pcb1016/1242-2	8.240	8.240	(0.481)	5552548121	6.65267	6.65(R)
6 pcb1016/1242-3	8.478	8.477	(0.495)	3871142841	7.45827	7.46
7 pcb1016/1242-4	9.310	9.311	(0.544)	2837272263	7.52770	7.53
M 8 pcb1260				25838023852	7.73717	7.74
9 pcb1260-1	11.371	11.372	(0.664)	5208283618	7.53232	7.53
10 pcb1260-2	11.679	11.680	(0.682)	6122130911	7.25552	7.26
11 pcb1260-3	12.752	12.753	(0.745)	5035714592	8.17192	8.17
12 pcb1260-4	13.088	13.089	(0.765)	9471894732	7.97298	7.97
\$ 38 DCB	15.434	15.436	(0.902)	15300966899	1.60403	1.60
* 39 Decachlorodiphenyl Ether	17.115	17.119	(1.000)	18214313389	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 26-MAY-2009

Lab File ID: P052603.d

Calibration Time: 16:16

Lab Smp Id: 1685-153-8.0 PCB

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA

Method File: /chem/gcp.i/26May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	16689543951	8344771975	33379087902	18214313389	9.14
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.11	-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: 26May2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 1685-153-8.0 PCB	Client Smp ID: LCS
Level: LOW	Operator: LA
Data Type: GC DATA	SampleType: LCS
SpikeList File: CCV10.spk	Quant Type: ISTD
Sublist File: CCV.sub	
Method File: /chem/gcp.i/26May2009.b/p09p0522.m	
Misc Info: None	

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	1.60	1.56	97.40	85-115
M	3 pcb1016/1242	8.00	7.14	89.27	85-115
	4 pcb1016/1242-1	8.00	7.44	92.95	85-115
	5 pcb1016/1242-2	8.00	6.65	83.16*	85-115
	6 pcb1016/1242-3	8.00	7.46	93.23	85-115
	7 pcb1016/1242-4	8.00	7.53	94.10	85-115
M	8 pcb1260	8.00	7.74	96.71	85-115
	9 pcb1260-1	8.00	7.53	94.15	85-115
	10 pcb1260-2	8.00	7.26	90.69	85-115
	11 pcb1260-3	8.00	8.17	102.15	85-115
	12 pcb1260-4	8.00	7.97	99.66	85-115
\$	38 DCB	1.60	1.60	100.25	85-115

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	1.56	97.40	60-120
\$	38 DCB	0.600	1.60	100.25	60-120

Data File: /chem/gcp.i/26May2009.b/P052603.d

Date : 26-May-2009 16:43

Client ID: LCS

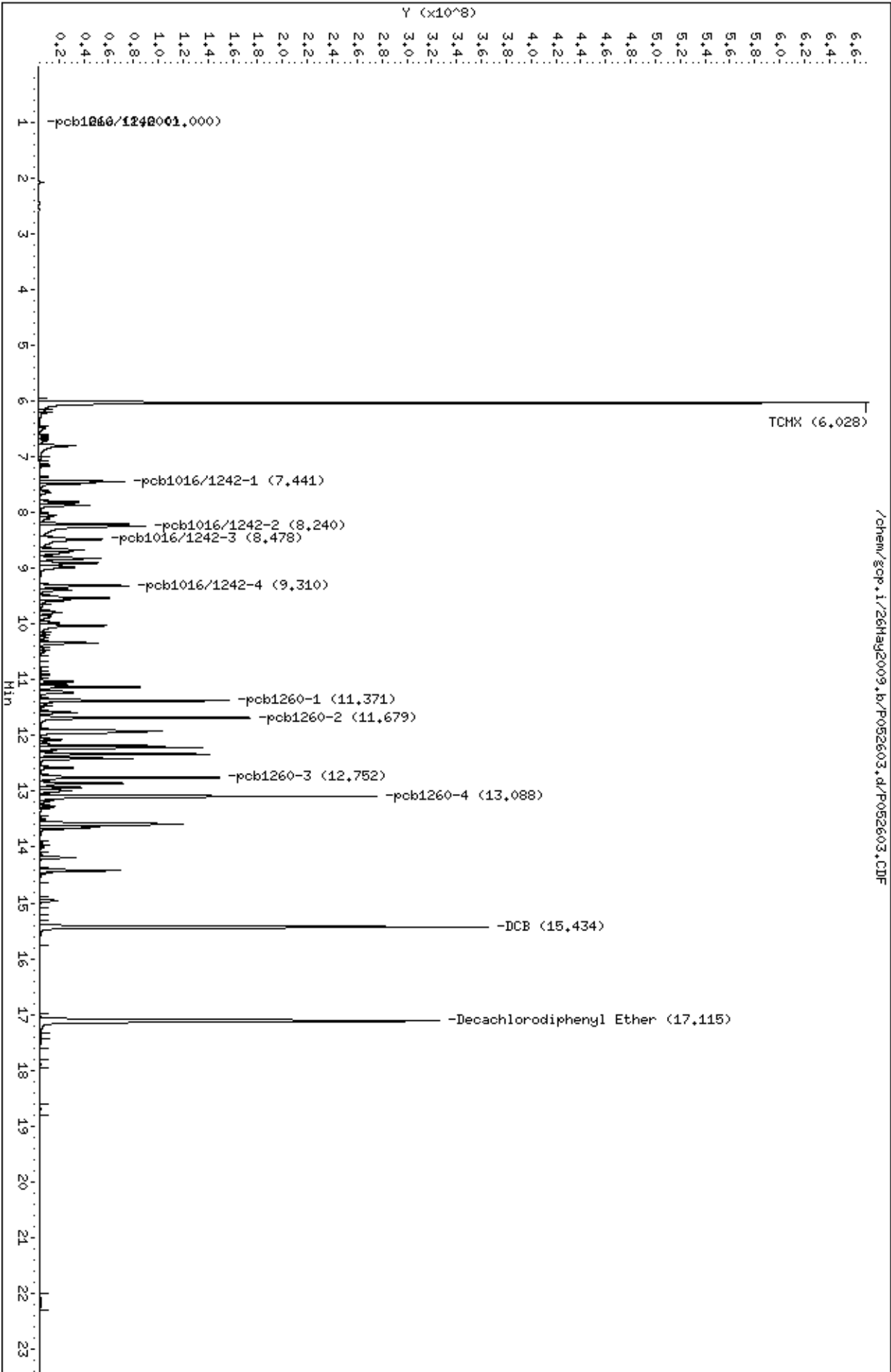
Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052203.d

Lab Smp Id: 1685-137-1.0

Inj Date : 22-MAY-2009 19:06

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-1.0

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 12:43 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 19:06

Cal File: P052203.d

Als bottle: 1

Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.031	6.030	(0.352)	3833117146	0.20000	0.240
M 3 pcb1016/1242				2742655944	1.00000	1.18
4 pcb1016/1242-1	7.444	7.443	(0.435)	450415148	1.00000	1.20
5 pcb1016/1242-2	8.262	8.262	(0.483)	1141611009	1.00000	1.22
6 pcb1016/1242-3	8.495	8.480	(0.496)	657378676	1.00000	1.13
7 pcb1016/1242-4	9.313	9.312	(0.544)	493251111	1.00000	1.16
M 8 pcb1260				4474768177	1.00000	1.19
9 pcb1260-1	11.372	11.373	(0.664)	950337772	1.00000	1.22
10 pcb1260-2	11.681	11.681	(0.683)	1155881506	1.00000	1.22
11 pcb1260-3	12.753	12.754	(0.745)	814118050	1.00000	1.18
12 pcb1260-4	13.090	13.090	(0.765)	1554430849	1.00000	1.16
\$ 38 DCB	15.433	15.436	(0.902)	2519209302	0.20000	0.235
* 39 Decachlorodiphenyl Ether	17.114	17.119	(1.000)	20477870776	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052203.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-1.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	20477870776	-3.89
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.11	-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/gcp.i/22May2009.b/P052203.d

Date : 22-May-2009 19:06

Client ID:

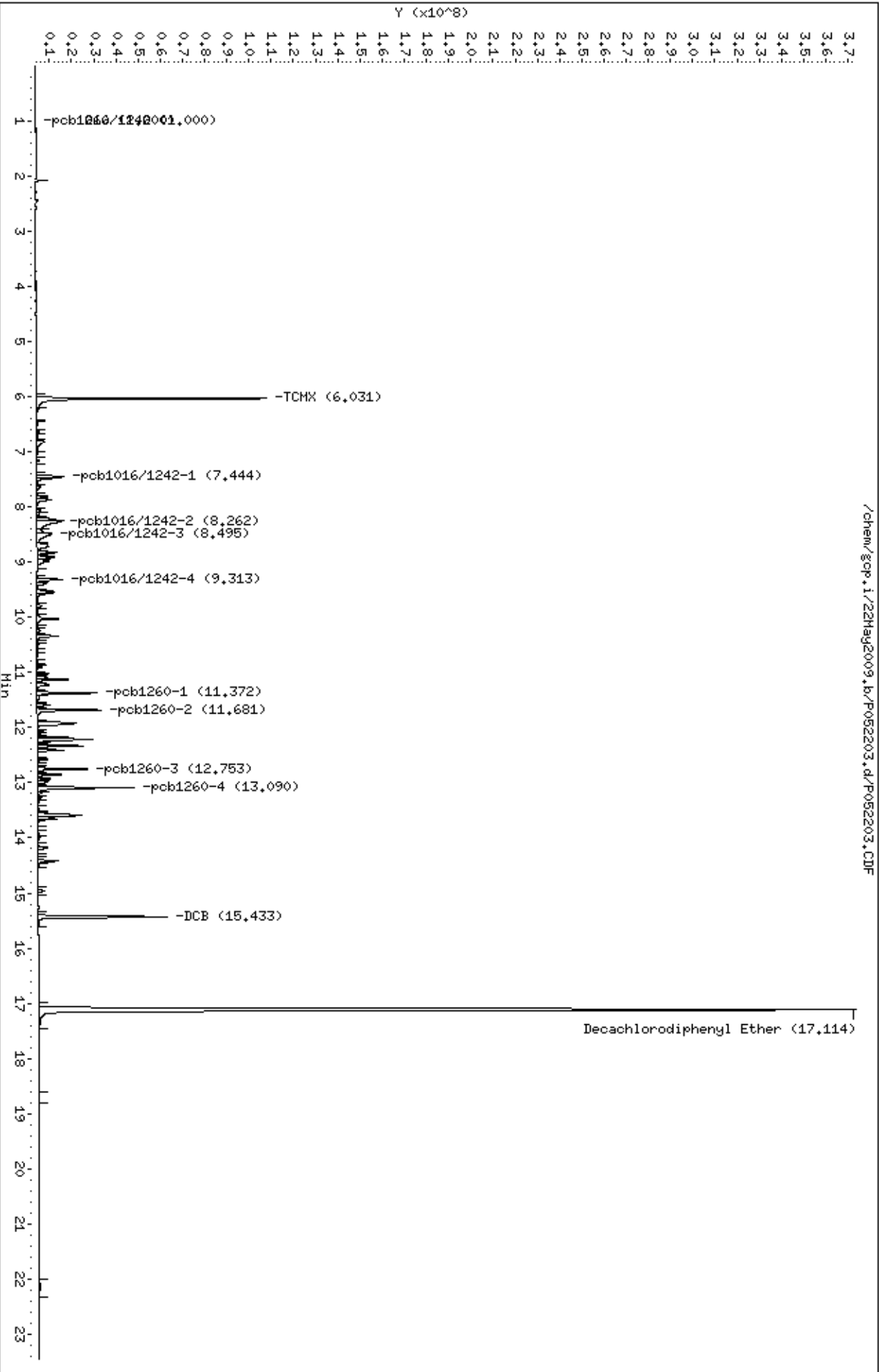
Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052204.d

Calibration Time: 19:32

Lab Smp Id: 1685-137-3.0

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	21071911933	10535955967	42143823867	21071911933	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/22May2009.b/P052204.d

Date : 22-May-2009 19:32

Client ID:

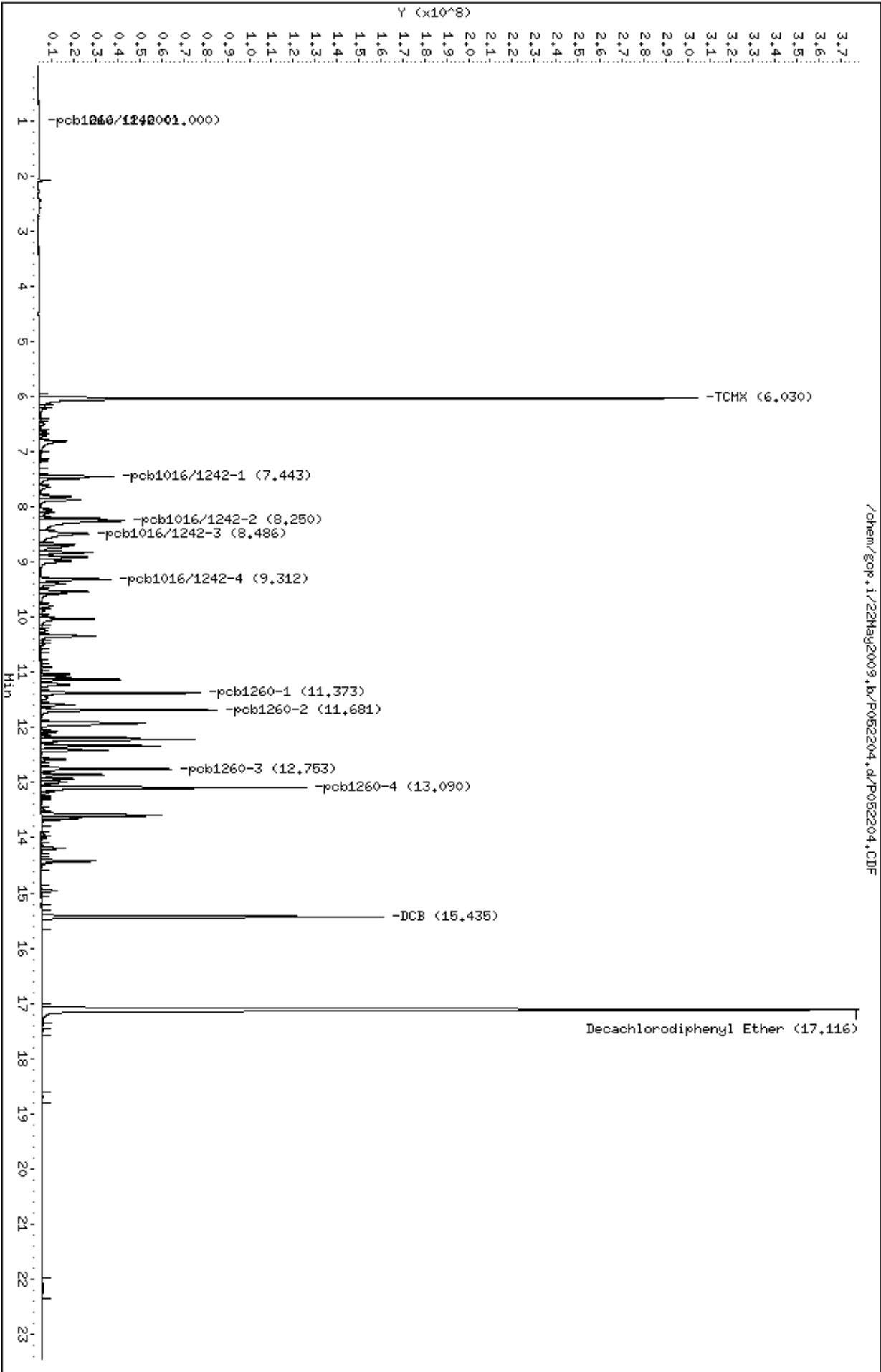
Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052214.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1254
Inj Date : 22-MAY-2009 23:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1254PCB 1254
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:55 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1254NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

AMOUNTS						
					CAL-AMT	ON-COL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)
=====		==	=====	=====	=====	=====
M 33	pcb1254				17010377557	5.00000
34	pcb1254-1	10.030	10.066	(0.586)	3769331689	5.00000
35	pcb1254-2	10.341	10.340	(0.604)	3574838505	5.00000
36	pcb1254-3	11.084	11.084	(0.647)	4778168805	5.00000
37	pcb1254-4	12.216	12.216	(0.714)	4888038559	5.00000
* 39	Decachlorodiphenyl Ether	17.120	17.119	(1.000)	21327736514	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052214.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1254

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	21327736514	0.09
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/22May2009.b/P052214.d

Date : 22-MAY-2009 23:59

Client ID: PCB 1254

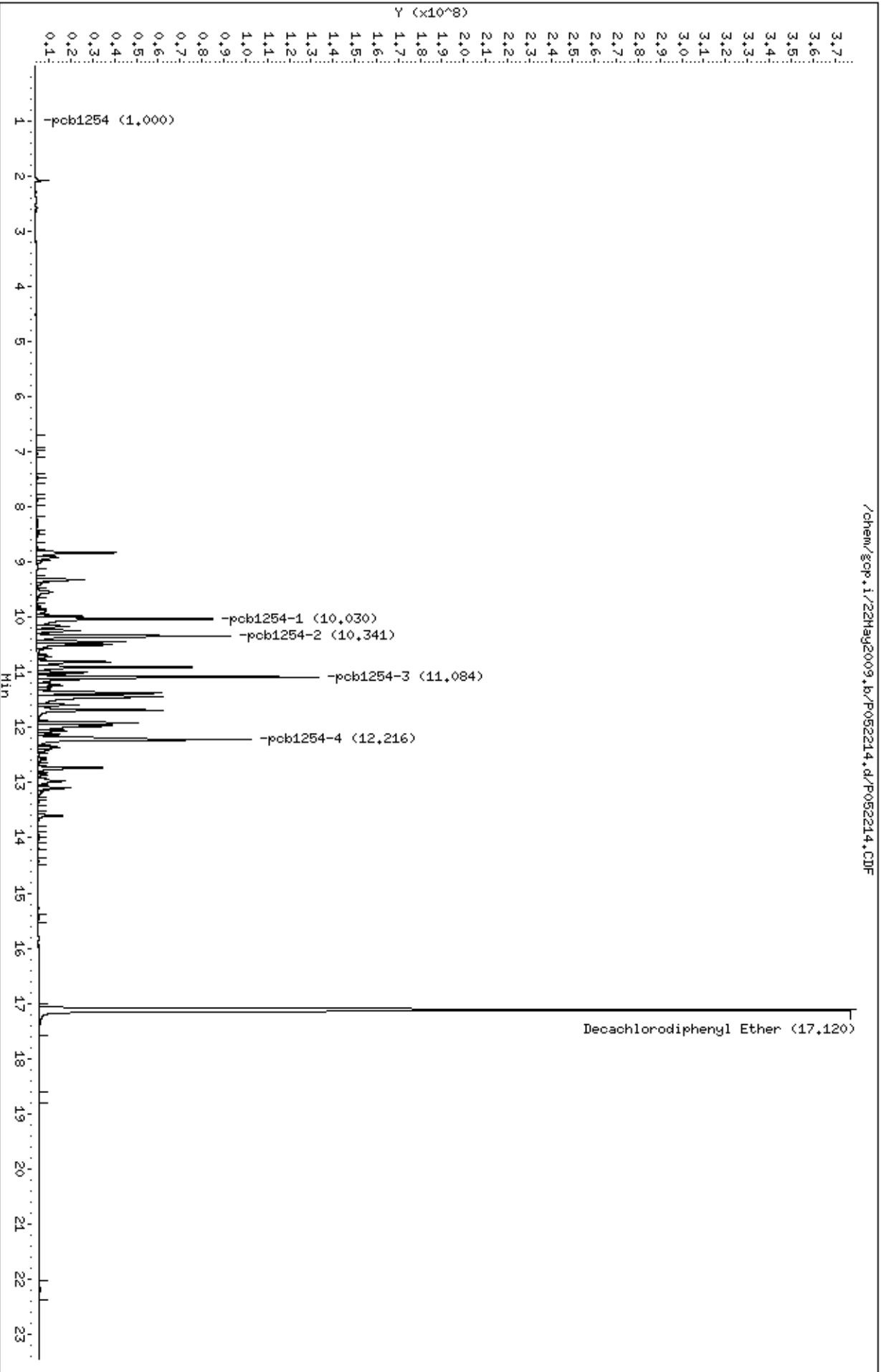
Sample Info: 1685-121-5.0 PCB 1254PCB 1254

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052213.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1248
Inj Date : 22-MAY-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1248
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1248NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL
Compounds						(ug/mL) (ug/mL)
=====		==	=====	=====	=====	=====
M	28 pcb1248				7231266713	5.00000 5.00
	29 pcb1248-1	8.983	9.120	(0.525)	1789812909	5.00000 5.00
	30 pcb1248-2	9.873	9.918	(0.577)	1517118585	5.00000 5.00
	31 pcb1248-3	9.974	9.974	(0.583)	2745221379	5.00000 5.00
	32 pcb1248-4	10.904	10.904	(0.637)	1179113840	5.00000 5.00
*	39 Decachlorodiphenyl Ether	17.121	17.119	(1.000)	22126105488	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052213.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1248

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	22126105488	3.84
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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: /chem/gcp.i/22May2009.b/P052213.d

Date : 22-MAY-2009 23:33

Client ID: PCB 1248

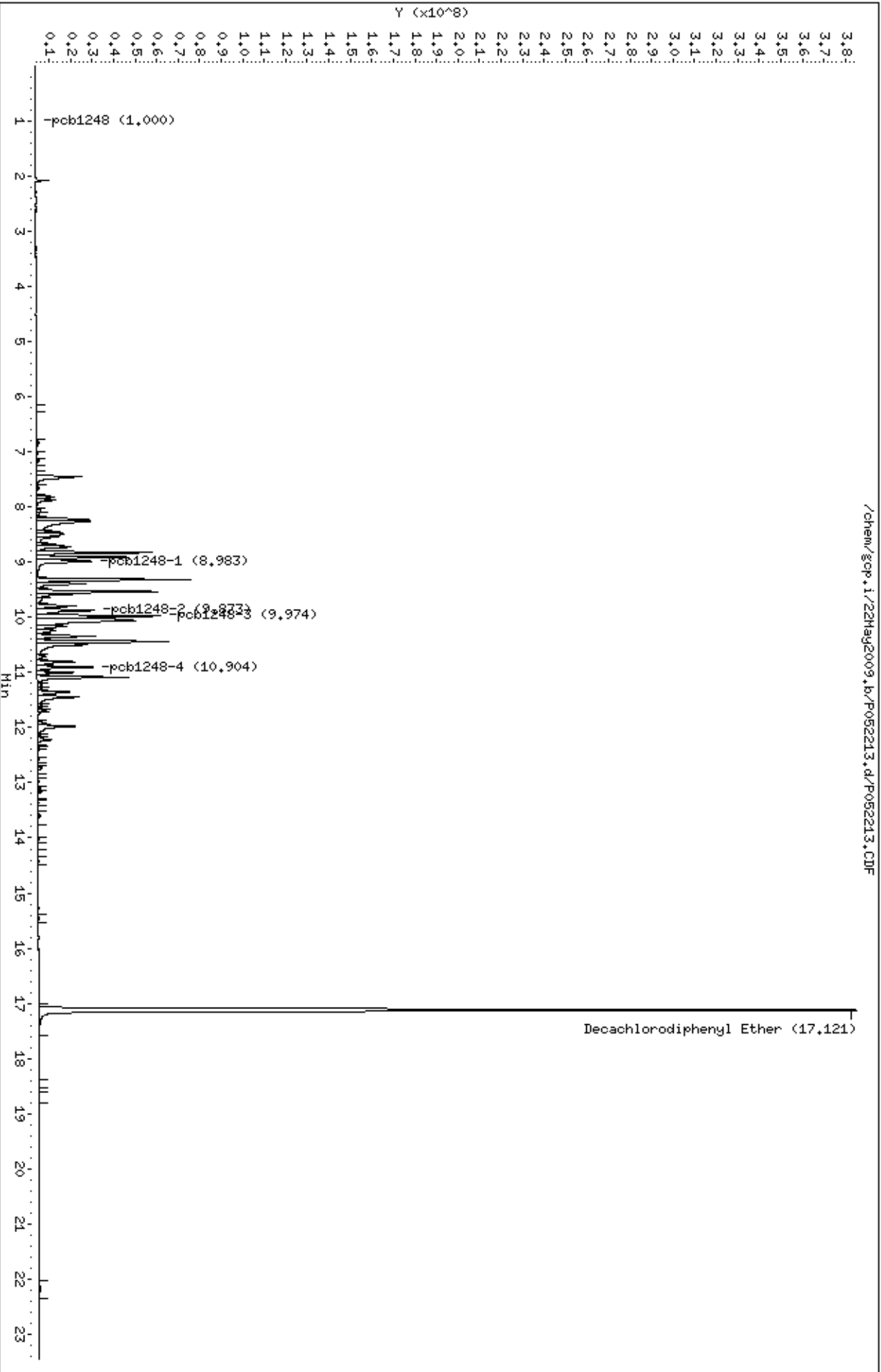
Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052212.d

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1232

Inj Date : 22-MAY-2009 23:06

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-121-5.0 PCB 1232

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 11:30 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214.CDF

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: 1232NS.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
					CAL-AMT	ON-COL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)
=====		==	=====	=====	=====	=====
M 18	pcb1232				2393304708	5.00000
19	pcb1232-1	7.871	7.892	(0.460)	639945068	5.00000
20	pcb1232-2	8.685	8.686	(0.507)	497466832	5.00000
21	pcb1232-3	8.826	8.826	(0.516)	617239361	5.00000
22	pcb1232-4	8.911	8.911	(0.520)	638653447	5.00000
* 39	Decachlorodiphenyl Ether	17.119	17.119	(1.000)	22322107763	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052212.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1232

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	22322107763	4.76
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/22May2009.b/P052212.d

Date : 22-May-2009 23:06

Client ID: PCB 1232

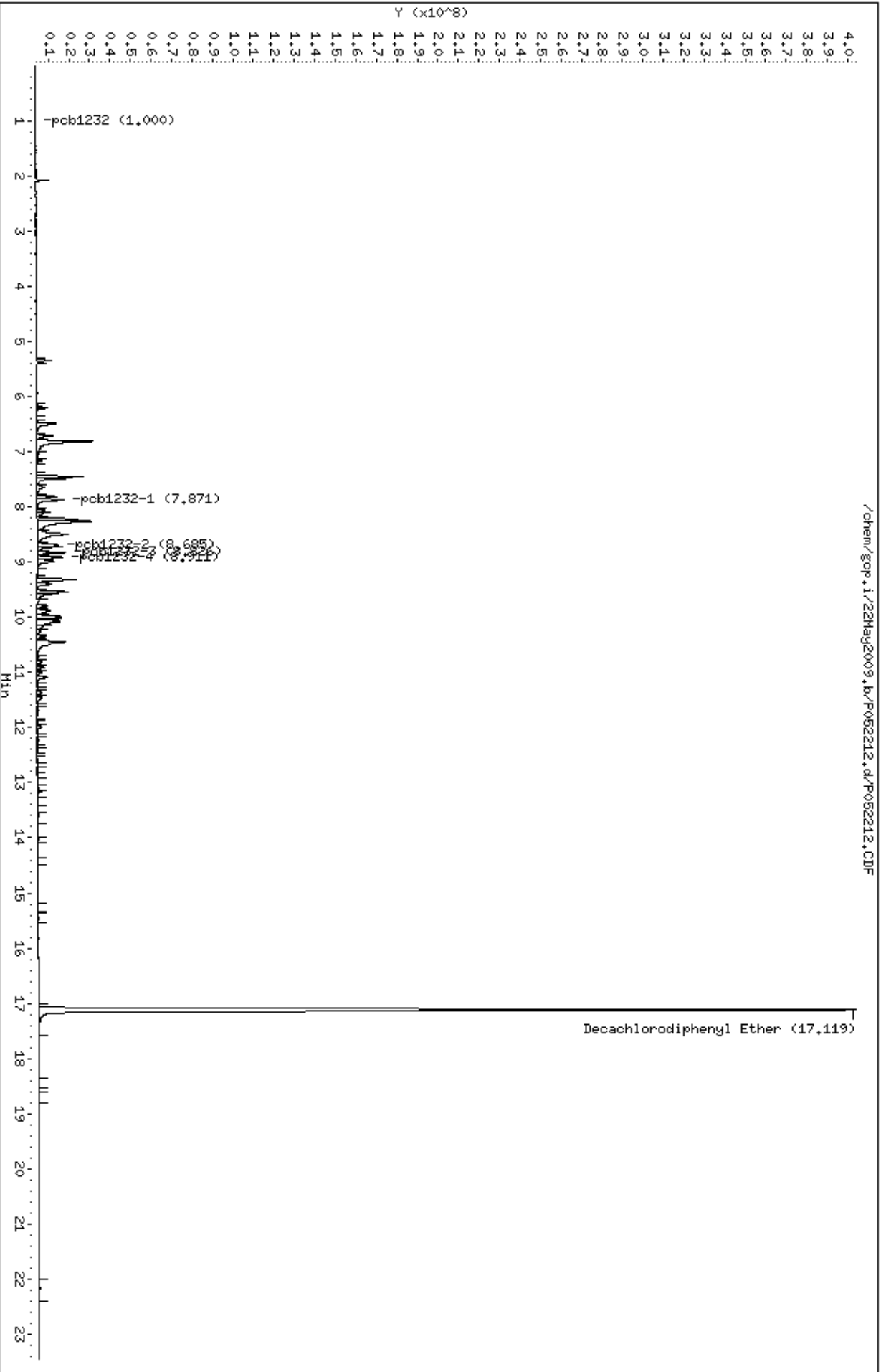
Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052211.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1221
Inj Date : 22-MAY-2009 22:39
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1221
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1221NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

AMOUNTS						
				CAL-AMT	ON-COL	
Compounds				(ug/mL)	(ug/mL)	
=====				=====	=====	
M 13	pcb1221			3970451781	5.00000	5.00
14	pcb1221-1	5.342	5.441 (0.312)	431963628	5.00000	5.00
15	pcb1221-2	6.485	6.485 (0.379)	869411973	5.00000	5.00
16	pcb1221-3	6.706	6.706 (0.392)	509833929	5.00000	5.00
17	pcb1221-4	6.802	6.803 (0.397)	2159242251	5.00000	5.00
* 39	Decachlorodiphenyl Ether	17.122	17.119 (1.000)	21709480321	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052211.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1221

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	21709480321	1.89
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/22May2009.b/P052211.d

Date : 22-MAY-2009 22:39

Client ID: PCB 1221

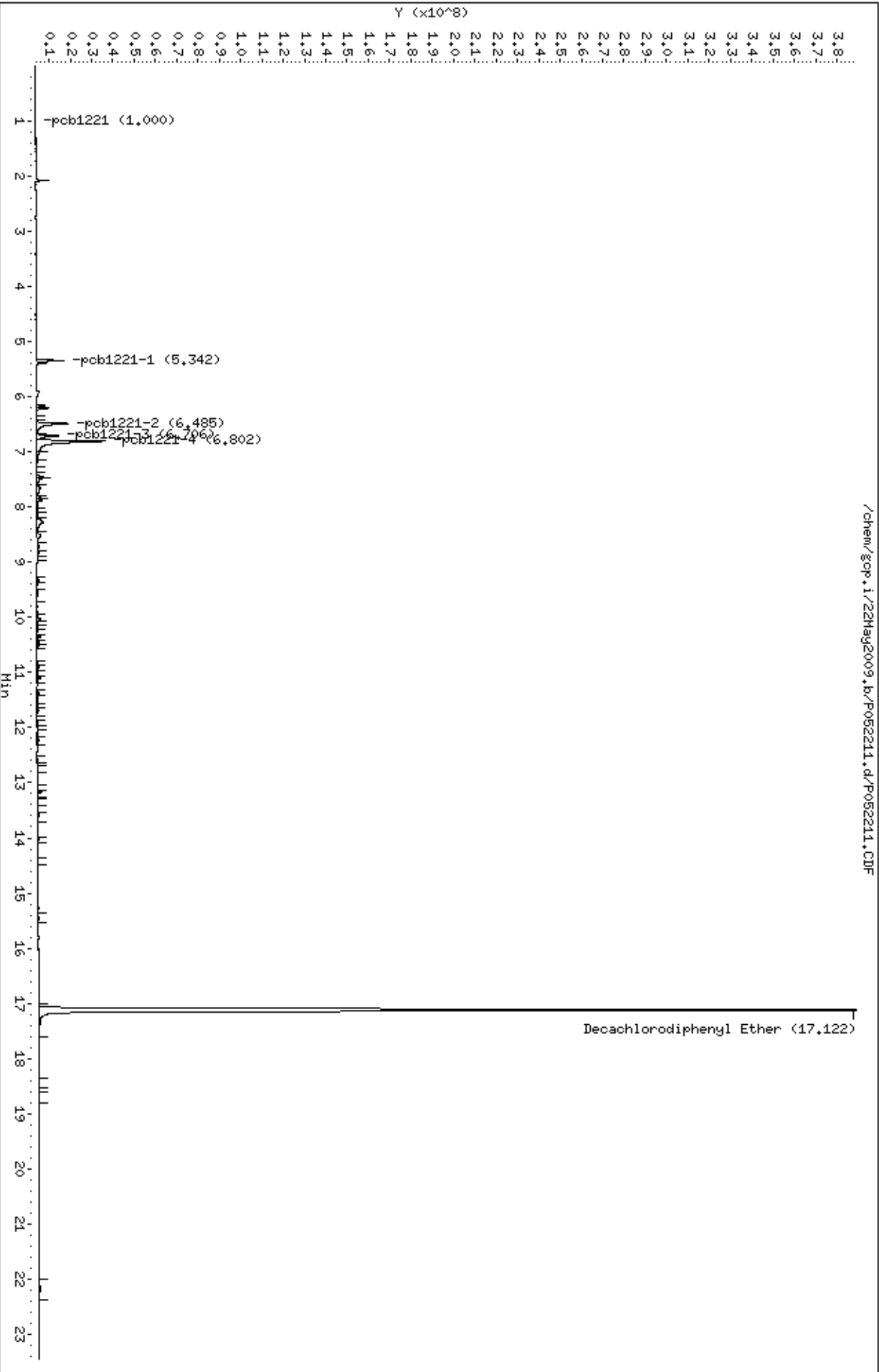
Sample Info: 1685-121-5.0 PCB 1221

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052205.d

Lab Smp Id: 1685-137-5.0

Inj Date : 22-MAY-2009 19:59

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-5.0

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 11:30 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214.CDF

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.030	6.030	(0.352)	17177361230	1.00000	1.04
M 3 pcb1016/1242				12890825726	5.00000	5.33
4 pcb1016/1242-1	7.443	7.443	(0.435)	2034791139	5.00000	5.27
5 pcb1016/1242-2	8.244	8.262	(0.482)	5109270272	5.00000	5.27
6 pcb1016/1242-3	8.482	8.480	(0.496)	3450946797	5.00000	5.52
7 pcb1016/1242-4	9.312	9.312	(0.544)	2295817518	5.00000	5.24
M 8 pcb1260				20276630857	5.00000	5.22
9 pcb1260-1	11.372	11.373	(0.664)	4203718616	5.00000	5.23
10 pcb1260-2	11.680	11.681	(0.682)	5137265598	5.00000	5.24
11 pcb1260-3	12.753	12.754	(0.745)	3719761941	5.00000	5.19
12 pcb1260-4	13.089	13.090	(0.765)	7215884702	5.00000	5.23
\$ 38 DCB	15.434	15.436	(0.902)	11495108596	1.00000	1.04
* 39 Decachlorodiphenyl Ether	17.117	17.119	(1.000)	21168292148	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052205.d

Calibration Time: 23:59

Lab Smp Id: 1685-137-5.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	21168292148	10584146074	42336584296	21168292148	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/22May2009.b/P052205.d

Date : 22-May-2009 19:59

Client ID:

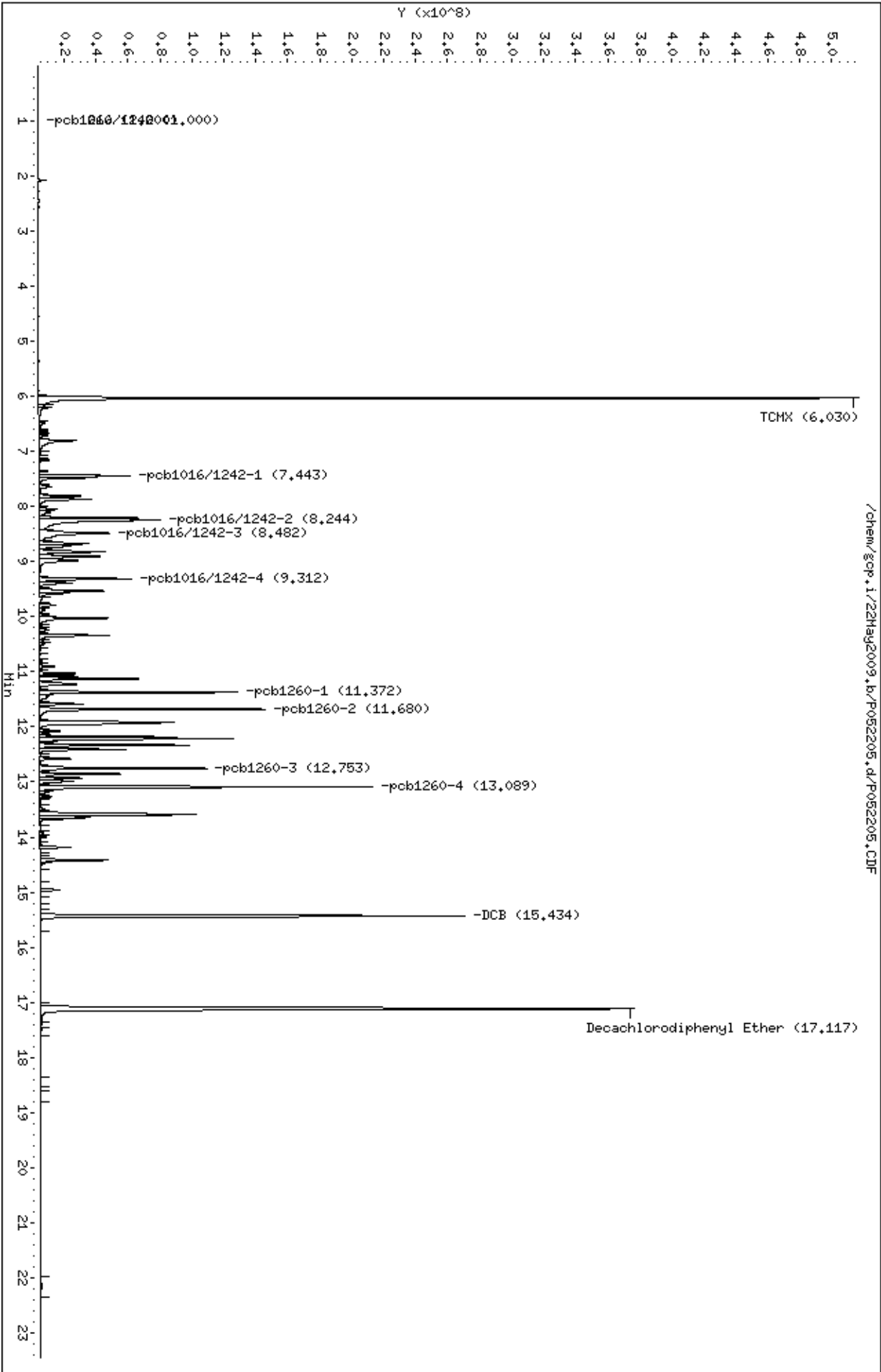
Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052206.d

Lab Smp Id: 1685-137-8.0

Inj Date : 22-MAY-2009 20:26

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-8.0

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 11:30 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 20:26

Cal File: P052206.d

Als bottle: 1

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.030	6.030	(0.352)	25420100614	1.60000	1.53
M 3 pcb1016/1242				18585751993	8.00000	7.63
4 pcb1016/1242-1	7.443	7.443	(0.435)	2976401795	8.00000	7.66
5 pcb1016/1242-2	8.242	8.242	(0.481)	7388179671	8.00000	7.57
6 pcb1016/1242-3	8.480	8.480	(0.495)	4874786202	8.00000	7.74
7 pcb1016/1242-4	9.312	9.312	(0.544)	3346384325	8.00000	7.59
M 8 pcb1260				29923905006	8.00000	7.66
9 pcb1260-1	11.373	11.373	(0.664)	6166884225	8.00000	7.62
10 pcb1260-2	11.681	11.681	(0.682)	7533731689	8.00000	7.63
11 pcb1260-3	12.754	12.754	(0.745)	5536010411	8.00000	7.68
12 pcb1260-4	13.090	13.090	(0.765)	10687278680	8.00000	7.69
\$ 38 DCB	15.436	15.436	(0.902)	17116192113	1.60000	1.53
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	21307648584	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052206.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-8.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	21307648584	10653824292	42615297168	21307648584	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/22May2009.b/P052206.d

Date : 22-May-2009 20:26

Client ID:

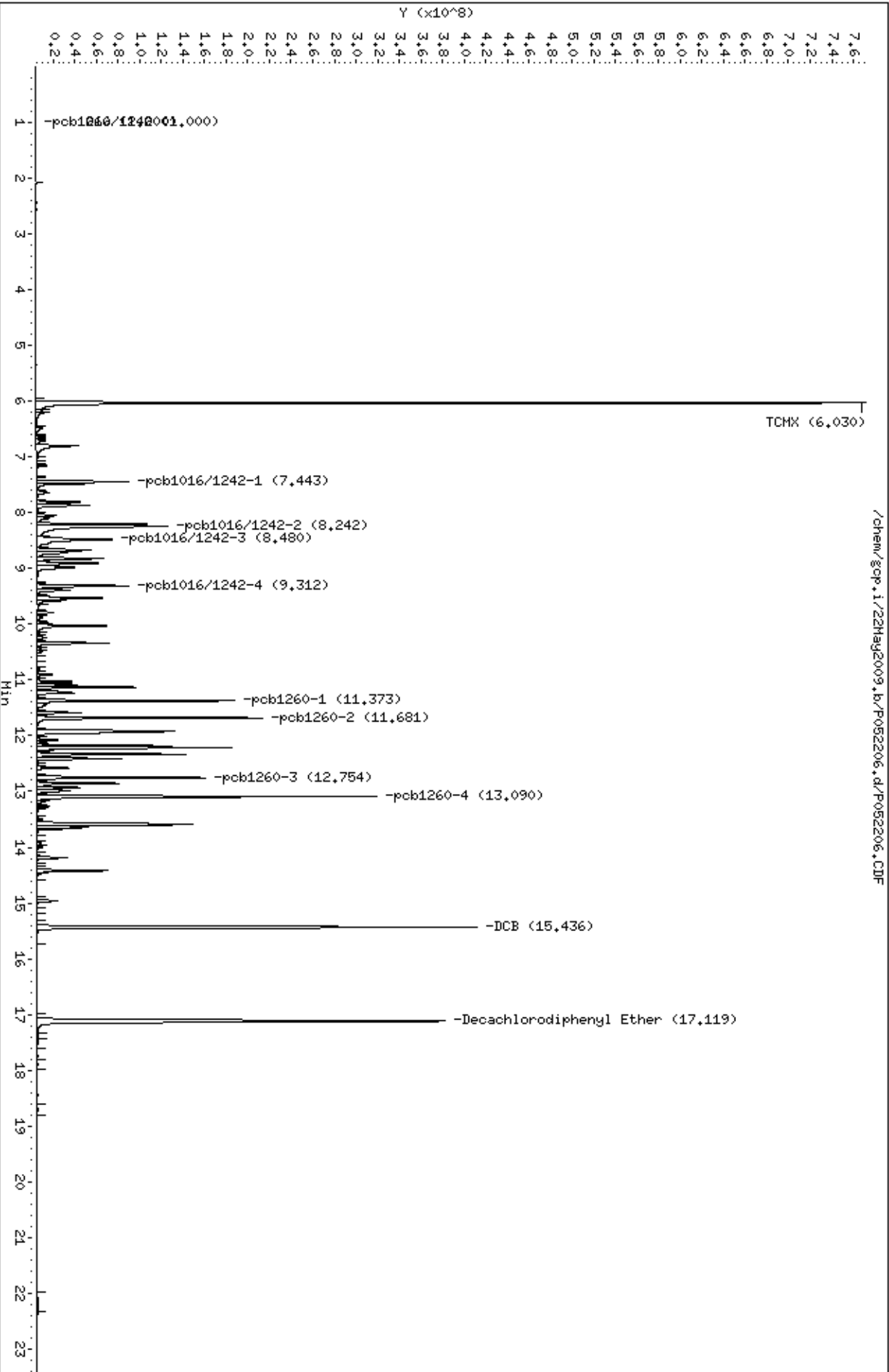
Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052207.d

Lab Smp Id: 1685-137-10

Inj Date : 22-MAY-2009 20:53

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-10

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 11:30 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 20:53

Cal File: P052207.d

Als bottle: 1

Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
\$ 2 TCMX		6.030	6.030	(0.352)	31324001995	2.00000
M 3 pcb1016/1242					22278049603	10.0000
4 pcb1016/1242-1		7.443	7.443	(0.435)	3648011624	10.0000
5 pcb1016/1242-2		8.241	8.242	(0.481)	9120802431	10.0000
6 pcb1016/1242-3		8.478	8.480	(0.495)	5302783173	10.0000
7 pcb1016/1242-4		9.311	9.312	(0.544)	4206452375	10.0000
M 8 pcb1260					36987974774	10.0000
9 pcb1260-1		11.373	11.373	(0.664)	7587098328	10.0000
10 pcb1260-2		11.680	11.681	(0.682)	9263941075	10.0000
11 pcb1260-3		12.753	12.754	(0.745)	6866657988	10.0000
12 pcb1260-4		13.089	13.090	(0.765)	13270277383	10.0000
\$ 38 DCB		15.436	15.436	(0.902)	21325288062	2.00000
* 39 Decachlorodiphenyl Ether		17.119	17.119	(1.000)	21373083312	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052207.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-10

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	21373083312	0.31
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.12	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/gcp.i/22May2009.b/P052207.d

Date : 22-May-2009 20:53

Client ID:

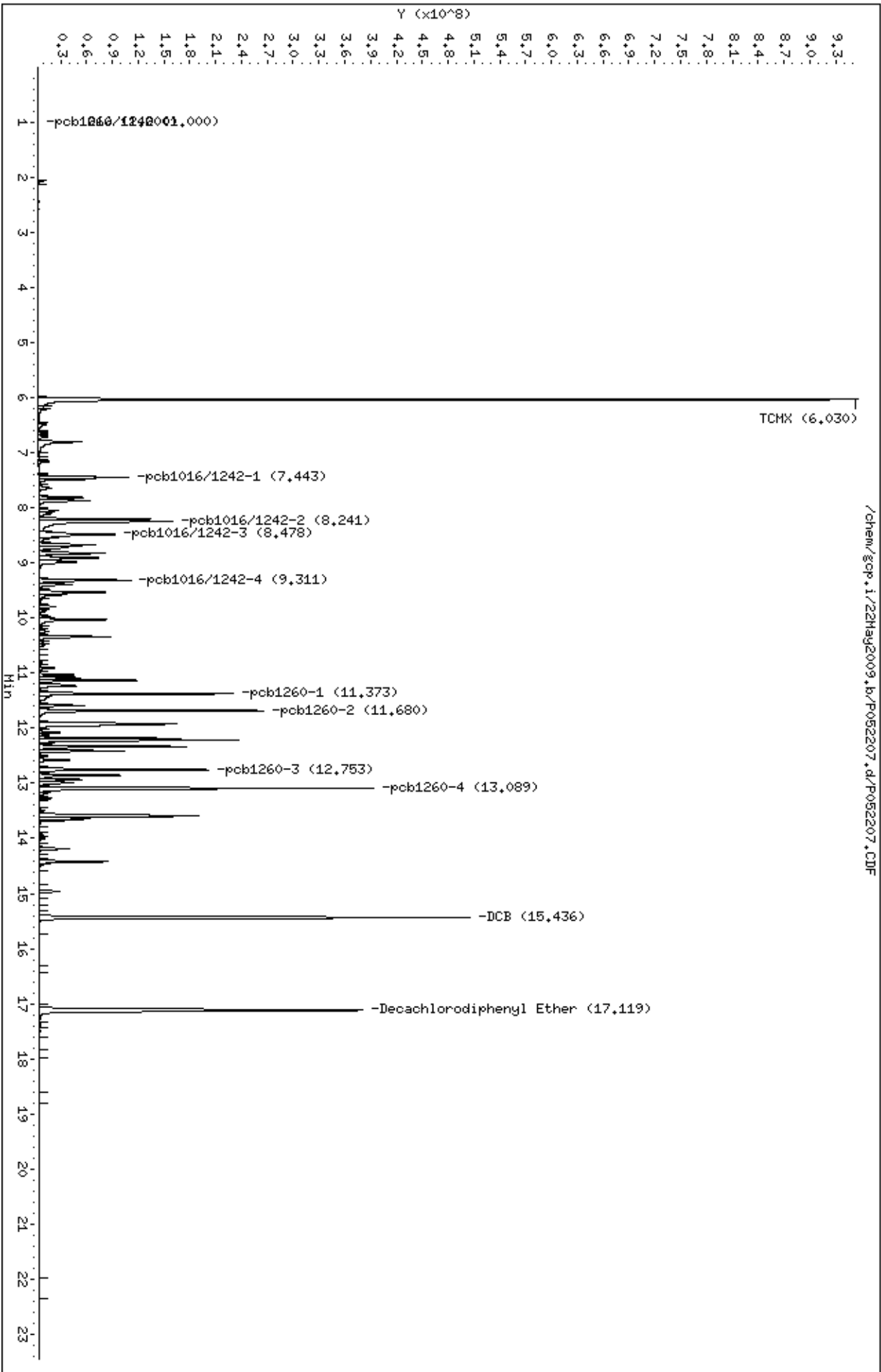
Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052208.d

Lab Smp Id: 1685-137-12

Inj Date : 22-MAY-2009 21:19

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-12

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 11:30 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 21:19

Cal File: P052208.d

Als bottle: 1

Calibration Sample, Level: 6

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
\$ 2	TCMX	6.029	6.030	(0.352)	35966879697	2.40000
M 3	pcb1016/1242				25761231936	12.0000
4	pcb1016/1242-1	7.442	7.443	(0.435)	4216093250	12.0000
5	pcb1016/1242-2	8.240	8.242	(0.481)	10509113226	12.0000
6	pcb1016/1242-3	8.477	8.480	(0.495)	6148594137	12.0000
7	pcb1016/1242-4	9.310	9.312	(0.544)	4887431323	12.0000
M 8	pcb1260				42861740439	12.0000
9	pcb1260-1	11.372	11.373	(0.664)	8755384528	12.0000
10	pcb1260-2	11.680	11.681	(0.682)	10712000129	12.0000
11	pcb1260-3	12.752	12.754	(0.745)	7997372558	12.0000
12	pcb1260-4	13.088	13.090	(0.765)	15396983224	12.0000
\$ 38	DCB	15.435	15.436	(0.902)	24796067954	2.40000
* 39	Decachlorodiphenyl Ether	17.117	17.119	(1.000)	20550459704	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052208.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-12

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	21307648584	10653824292	42615297168	20550459704	-3.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.12	16.62	17.62	17.12	-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: /chem/gcp.i/22May2009.b/P052208.d

Date : 22-May-2009 21:19

Client ID:

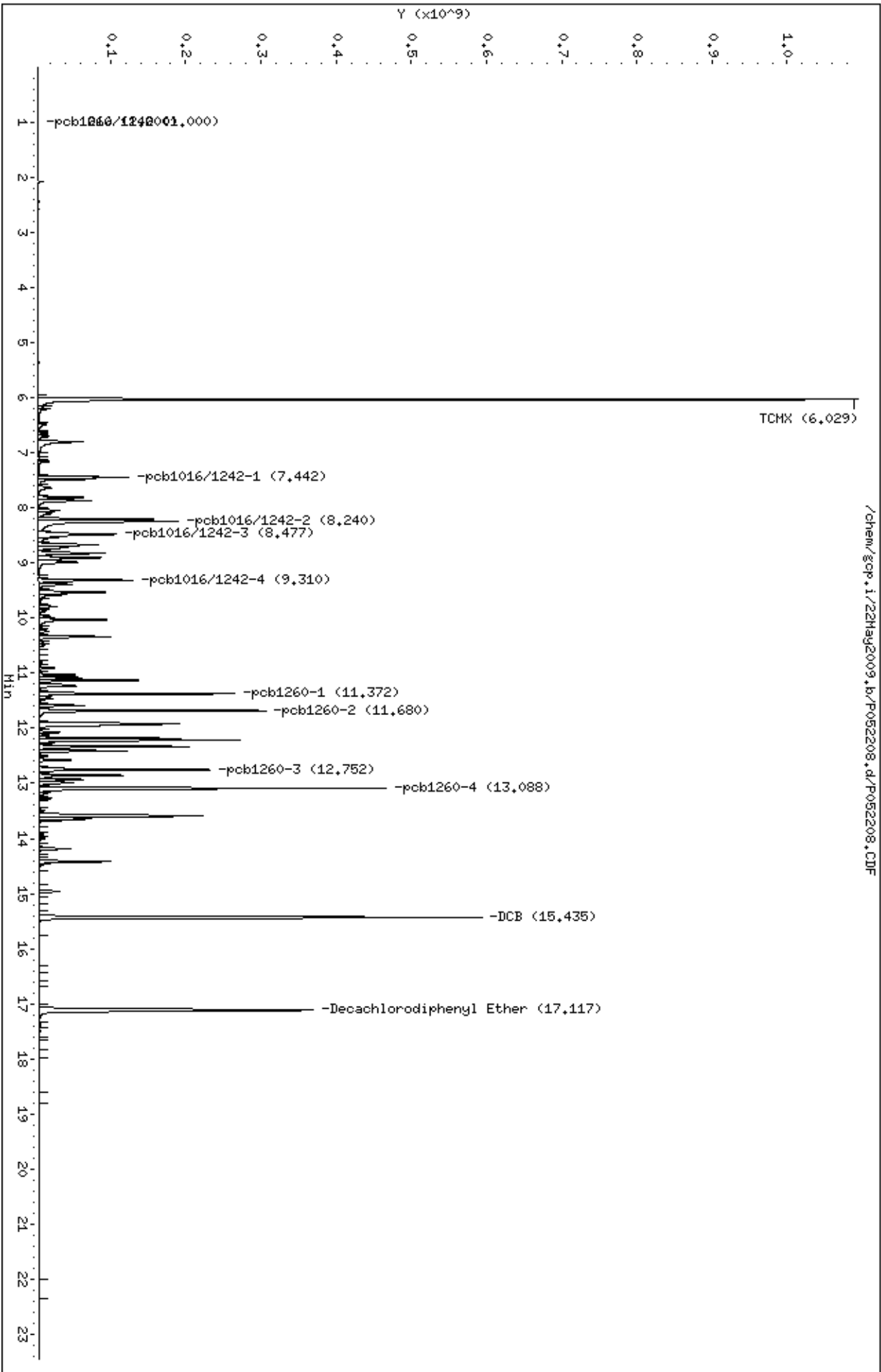
Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052209.d

Lab Smp Id: 1685-137-15

Inj Date : 22-MAY-2009 21:46

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-15

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/22May2009.b/p09p0522.m

Meth Date : 01-Jun-2009 11:30 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 21:46

Cal File: P052209.d

Als bottle: 1

Calibration Sample, Level: 7

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
					CAL-AMT	ON-COL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)
=====		==	=====	=====	=====	=====
\$ 2	TCMX	6.029	6.030	(0.352)	43156806211	3.00000
M 3	pcb1016/1242				30589529919	15.0000
4	pcb1016/1242-1	7.442	7.443	(0.435)	4983483673	15.0000
5	pcb1016/1242-2	8.239	8.242	(0.481)	12417886567	15.0000
6	pcb1016/1242-3	8.476	8.480	(0.495)	7334869227	15.0000
7	pcb1016/1242-4	9.311	9.312	(0.544)	5853290452	15.0000
M 8	pcb1260				51415679794	15.0000
9	pcb1260-1	11.372	11.373	(0.664)	10444897890	15.0000
10	pcb1260-2	11.680	11.681	(0.682)	12783419641	15.0000
11	pcb1260-3	12.753	12.754	(0.745)	9636104276	15.0000
12	pcb1260-4	13.089	13.090	(0.765)	18551257987	15.0000
\$ 38	DCB	15.436	15.436	(0.902)	29929712758	3.00000
* 39	Decachlorodiphenyl Ether	17.118	17.119	(1.000)	20869538353	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052209.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-15

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	21307648584	10653824292	42615297168	20869538353	-2.06
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.12	16.62	17.62	17.12	-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: /chem/gcp.i/22May2009.b/P052209.d

Date : 22-May-2009 21:46

Client ID:

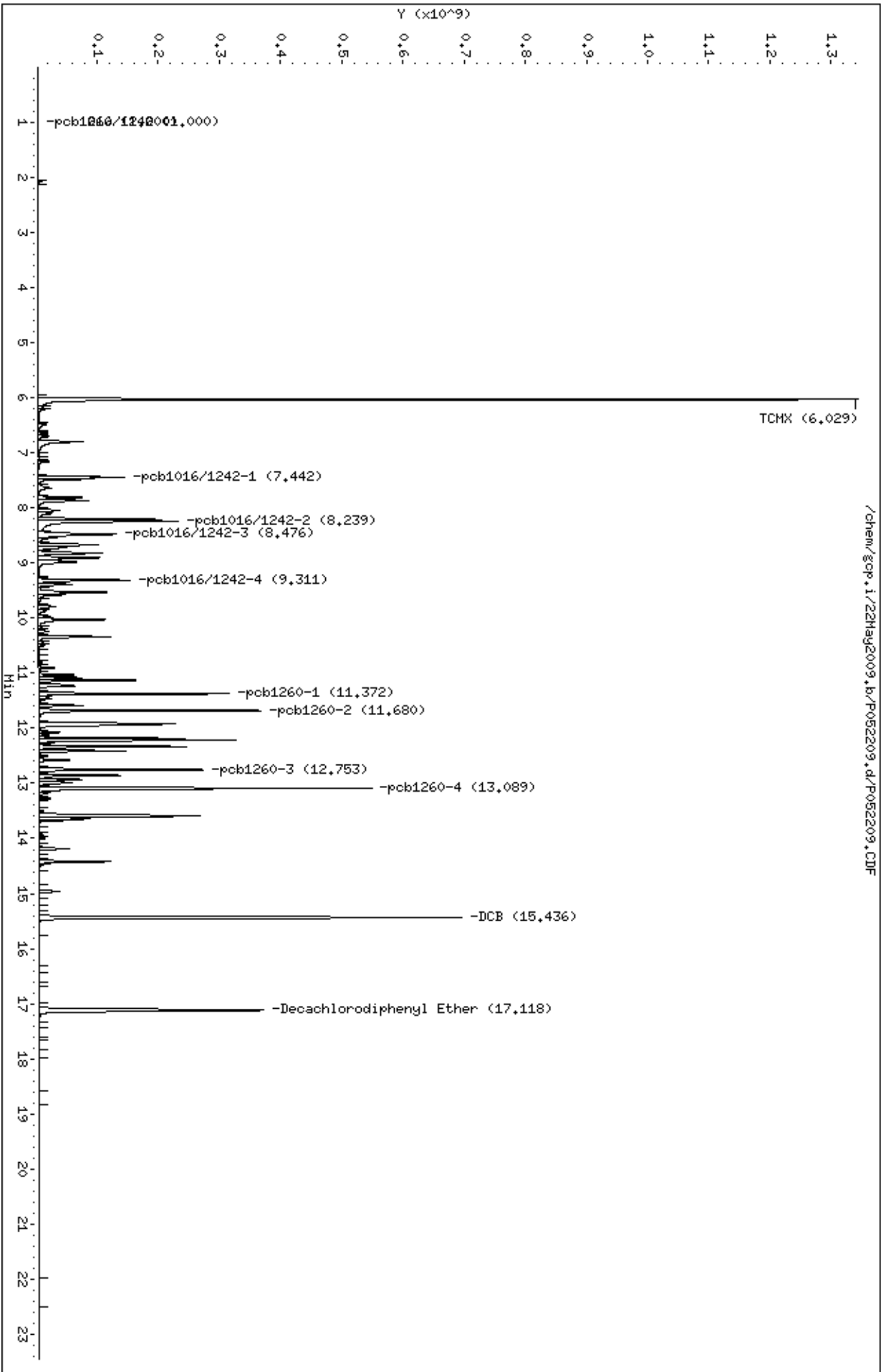
Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



INITIAL CALIBRATION DATA

	1.000	3.000	5.000	8.000	10.000	12.000	—		
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD	
	-----	-----	-----	-----	-----	-----			
	15.000								
	Level 7								
=====									
10 pcb1260-2	0.11846	0.10201	0.10706	0.09967	0.10061	0.10193			
	0.09792						0.10395	6.735	

11 pcb1260-3	0.06518	0.05586	0.05854	0.05479	0.05521	0.05617			
	0.05444						0.05717	6.614	

12 pcb1260-4	0.13077	0.11532	0.12562	0.11922	0.12054	0.12303			
	0.11903						0.12193	4.158	

M 13 pcb1221	+++++	+++++	0.05939	+++++	+++++	+++++			
	+++++						0.05939	0.000	

14 pcb1221-1	+++++	+++++	0.00883	+++++	+++++	+++++			
	+++++						0.00883	0.000	

15 pcb1221-2	+++++	+++++	0.01321	+++++	+++++	+++++			
	+++++						0.01321	0.000	

16 pcb1221-3	+++++	+++++	0.00691	+++++	+++++	+++++			
	+++++						0.00691	0.000	

17 pcb1221-4	+++++	+++++	0.03044	+++++	+++++	+++++			
	+++++						0.03044	0.000	

M 18 pcb1232	+++++	+++++	0.03867	+++++	+++++	+++++			
	+++++						0.03867	0.000	

19 pcb1232-1	+++++	+++++	0.00880	+++++	+++++	+++++			
	+++++						0.00880	0.000	

INITIAL CALIBRATION DATA

[illegible]

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Average %RSD Results.	
=====	
Calculated Average %RSD =	5.87170553
Maximum Average %RSD =	20
* Passed Average %RSD Test.	

Calibration History

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Start Cal Date: 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
22-MAY-2009 19:06	CCV	/chem/gcp.i/22May2009.b/P052203b.d
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204b.d
Cal Level: 3 , Cal Amount: 5.00000		
22-MAY-2009 23:59	1254NS	/chem/gcp.i/22May2009.b/P052214b.d
22-MAY-2009 23:33	1248NS	/chem/gcp.i/22May2009.b/P052213b.d
22-MAY-2009 23:06	1232NS	/chem/gcp.i/22May2009.b/P052212b.d
22-MAY-2009 22:39	1221NS	/chem/gcp.i/22May2009.b/P052211b.d
22-MAY-2009 19:59	CCV	/chem/gcp.i/22May2009.b/P052205b.d
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206b.d
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207b.d
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208b.d
Cal Level: 7 , Cal Amount: 15.00000		
22-MAY-2009 21:46	CCV	/chem/gcp.i/22May2009.b/P052209b.d

Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 8.00	
22-MAY-2009 20:26	/chem/gcp.i/22May2009.b/P052206ab.d
Ccal Level: 4 , Ccal Amount: 8.00	
22-MAY-2009 20:26	/chem/gcp.i/22May2009.b/P052206b.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

2nd Source : P052603b

Calibration File Names:

- Level 1: /chem/gcp.i/22May2009.b/P052203b.d
- Level 2: /chem/gcp.i/22May2009.b/P052204b.d
- Level 3: /chem/gcp.i/22May2009.b/P052214b.d
- Level 4: /chem/gcp.i/22May2009.b/P052206b.d
- Level 5: /chem/gcp.i/22May2009.b/P052207b.d
- Level 6: /chem/gcp.i/22May2009.b/P052208b.d
- Level 7: /chem/gcp.i/22May2009.b/P052209b.d

see Calibration History

PCB 1221 - P052211b

1232 - P052212b

1248 - P052213b

1254 - P052214b

run 6/1/09

1242 - P052215b info only

Based on 1ul injection

Compound	1.000 3.000 5.000 8.000 10.000 12.000						RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	15.000							
	Level 7							
<hr/>								
M 3 pcb1016/1242	0.21274	0.18605	0.19481	0.18515	0.18496	0.18723	0.19014	5.728
	0.18005							
<hr/>								
4 pcb1016/1242-1	0.05469	0.05010	0.05085	0.04751	0.04699	0.04757	0.04901	6.379
	0.04534							
<hr/>								
5 pcb1016/1242-2	0.06728	0.05990	0.06415	0.06172	0.06202	0.06285	0.06266	3.931
	0.06068							
<hr/>								
6 pcb1016/1242-3	0.05286	0.04450	0.04611	0.04372	0.04360	0.04403	0.04532	7.730
	0.04244							
<hr/>								
7 pcb1016/1242-4	0.03792	0.03155	0.03370	0.03220	0.03234	0.03278	0.03315	6.714
	0.03159							
<hr/>								
M 8 pcb1260	0.39538	0.34165	0.36181	0.33885	0.34155	0.34685	0.35151	6.033
	0.33448							
<hr/>								
9 pcb1260-1	0.08096	0.06846	0.07059	0.06518	0.06519	0.06573	0.06846	8.815
	0.06308							
<hr/>								
<hr/>								

run 6/1/09

6/1/09

Method: Mod. TO-4A/TO-10A

83

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: ↓	Endrin Front: NA Back: ↓
1685-320-50	Decafluorodiphenyl Ether	Front: 21320271892 Back: 6209665562	DDT Front: ↓ Back: ↓
NA	NA	Front: NA Back: ↓	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	P052201	Hexane Wash	1	1.0	REM	5/22/09	1812	LA	
✓	02	Hexane Blank	2				1839		
✓	03	1685-137-1.0	3				1906		
✓	04	-3.0	4				1932		
✓	05	-5.0	5				1959		
✓	06	-8.0	6				2026		ccv.
✓	07	-10	7				2053		
✓	08	-12	8				2119		
✓	09	↓ -15	9				2146		
X	10	1685-128-5.0 ^{PCB}	10				2213		surr ↑
✓	11	1685-121-5.0 ^{PCB}	11				2239		
✓	12	1685-121-5.0 ^{PCB}	12				2306		
✓	13	1248	13				2333		
✓	14	1254	14				2359		
✓	↓ 15	✓ 1242	15	↓	↓	5/23/09	0026		
16									
17									
18									
19									
20									
21									
22									
23									
24									

Calculation Check:

File ID: P052206 Compound: pcb 1016/1242Initials: LA

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample}} = \frac{18922798359}{21320271892} \times (2.00) = 1.766$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(1.766) \times (1000) \times (1.00)}{(1000)} = 1.766$$

Symon Antonelli
Signed

5/22/09

Date

Reported Result = 7.66

Revised: 02/27/06

Method: Mod. TO-4A/TO-10A

85

IS Std ID	IS	Area Counts	Breakdown %
NA	1-Bromo-2-Nitrobenzene	Front: NA Back: ↓	Endrin Front: 5.77% Back: 5.97%
1685-32D-525	Decafluorodiphenyl Ether	Front: 18898128504 Back: 5731711199	DDT Front: 8.40% Back: 6.48%
NA	NA	Front: NA Back: ↓	must be ≤15%

Injection Volume: 1.0 µL

GMT

USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P052601 Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02 1685-137-8.0 PCB CCV	2				1616		
3	✓	03 1685-153-8.0 PCB CCV	3				1643		
4	✓	04 1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05 Hexane Wash	1		DDT		2054		
6	✓	06 1685-143-0.8 tune	2				2120		
7	✓	07 1685-135-0.6 Pest CCV	3				2147		
8	✓	08 Hexane Blank	4				2214		
9	✓	09 0905530B-Blank	5			✓	2341		
10	X	10 Pest LCS	6			5/27/09	6008		B Low 5/27/09
11	✓	11 -05A	7				0035		
12	✓	12 -06A	8				0102		
13	✓	13 -07A	9				0128		
14	✓	14 -08A	10				0155		
15	✓	15 -08AA	10				0222		
16	✓	16 1685-135-0.6 Pest CCV	11		✓		0248		
17	✓	17 Hexane Wash	12		LA		1526		
18	✓	18 0905530B-LCS	13		↓		1553		
19	✓	19 1685-135-0.6 Pest CCV	14		↓		1620		
20	✓	20 Hexane Blank	15		DDT		1802		
21	✓	21 0905530A-05AA	16		↓		1829		
22	✓	22 1685-135-0.6 Pest CCV	17	✓	↓	✓	1855		
23									
24							✓ 5/27/09		

Calculation Check:

File ID: V052619 Compound: α-BHCInitials: DDT

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample} \times \text{Conc. Int. Standard}}{\text{Area of Int. Standard in Sample} \times \text{ICAL RRF}_{\text{AVG}}} = \frac{14405387052 \times (2.00)}{1804770354 \times (2.78691)} = 0.65234$$

$$\mu\text{G/Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.65234) \times (1000) \times (1)}{(1000)} = 0.65234$$

DDT

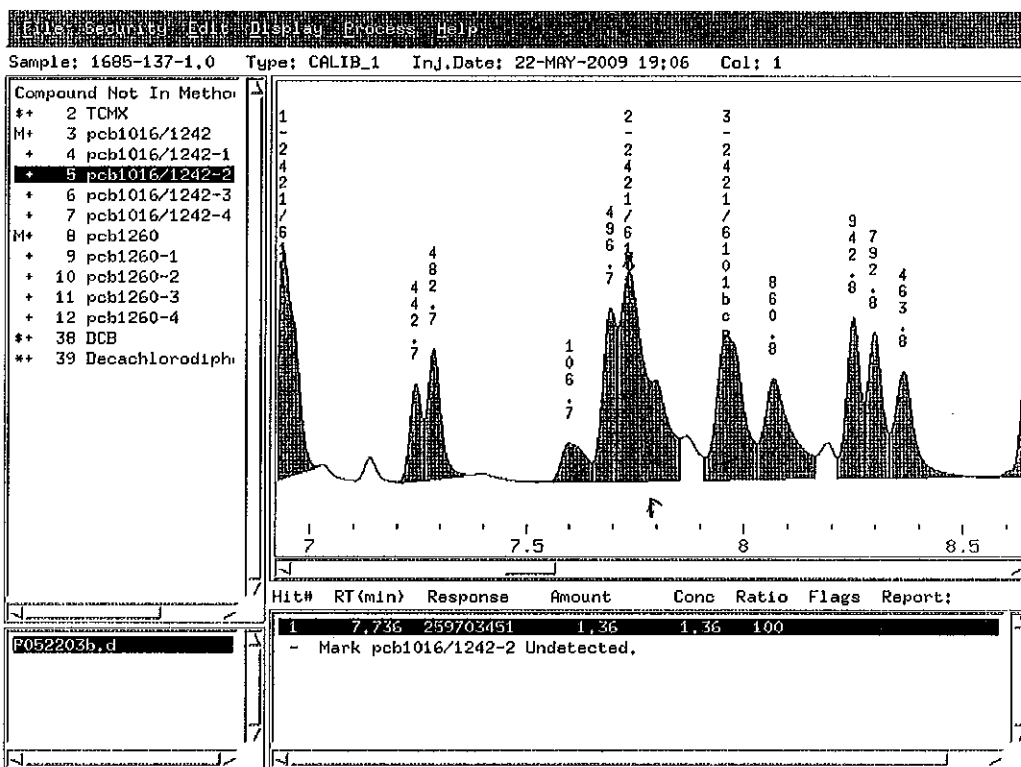
Signed

5/27/09

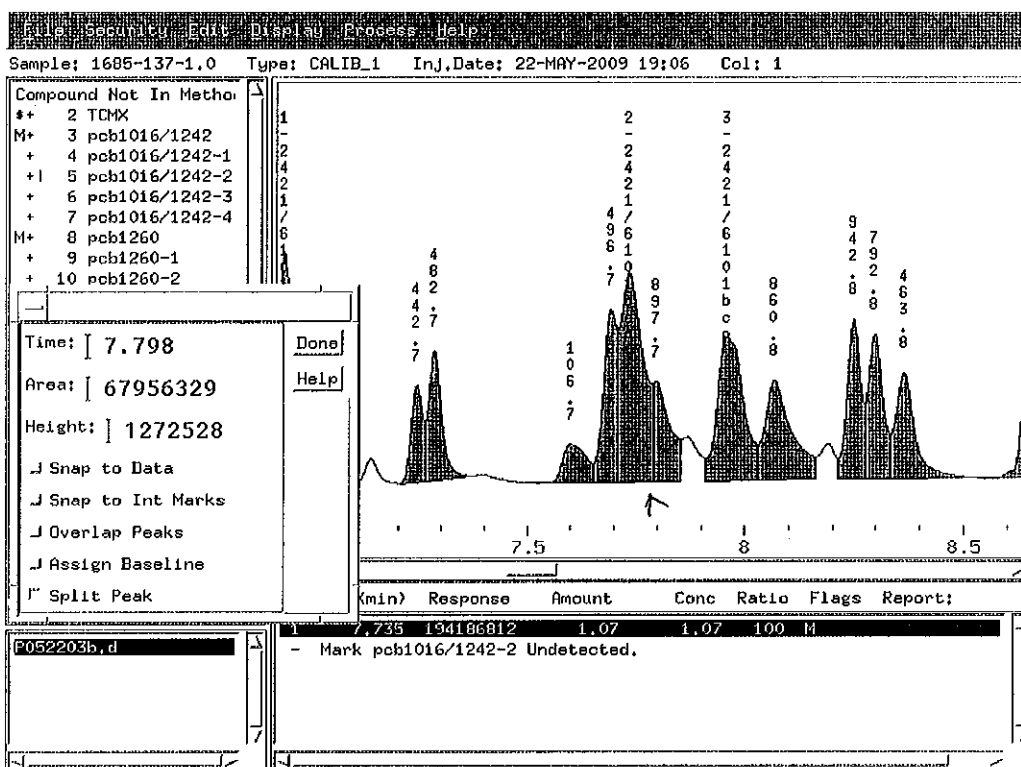
Date

Reported Result =

Revised: 02/27/06



Before
 4.611109



After

Correct Baseline	M/R
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	↓
Corrected Peak Integration	✓

6/11/09

SS 6/11/09

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/26May2009.b/P052603b.d
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Inj Date : 26-MAY-2009 16:43
Operator : LA Inst ID: gcp.i
Smp Info : 1685-153-8.0 PCB LCS
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 13:09 lantonic Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.843	5.842	(0.372)	6475554236	1.62834	1.63
M 3 pcb1016/1242					4057436883	7.47058	7.47
4 pcb1016/1242-1		6.937	6.935	(0.441)	1062666558	7.59123	7.59
5 pcb1016/1242-2		7.718	7.715	(0.491)	1322009893	7.38644	7.39
6 pcb1016/1242-3		7.942	7.940	(0.505)	951722152	7.35160	7.35
7 pcb1016/1242-4		8.651	8.649	(0.550)	721038278	7.61389	7.61
M 8 pcb1260					7975741662	7.94348	7.94
9 pcb1260-1		10.707	10.705	(0.681)	1467848046	7.50646	7.51
10 pcb1260-2		11.130	11.128	(0.708)	2156360856	7.26234	7.26
11 pcb1260-3		12.074	12.072	(0.768)	1382122259	8.46368	8.46
12 pcb1260-4		12.502	12.501	(0.795)	2969410500	8.52561	8.52
\$ 38 DCB		14.397	14.395	(0.916)	5000855168	1.61419	1.61
* 39 Decachlorodiphenyl Ether		15.722	15.719	(1.000)	5712825214	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 26-MAY-2009

Lab File ID: P052603b.d

Calibration Time: 16:16

Lab Smp Id: 1685-153-8.0 PCB

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: LA

Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	5474794735	2737397367	10949589470	5712825214	4.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.72	15.22	16.22	15.72	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: 26May2009
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Level: LOW Operator: LA
Data Type: GC DATA SampleType: LCS
SpikeList File: CCV10.spk Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	1.60	1.63	101.77	85-115
M	3 pcb1016/1242	8.00	7.47	93.38	85-115
	4 pcb1016/1242-1	8.00	7.59	94.89	85-115
	5 pcb1016/1242-2	8.00	7.39	92.33	85-115
	6 pcb1016/1242-3	8.00	7.35	91.89	85-115
	7 pcb1016/1242-4	8.00	7.61	95.17	85-115
M	8 pcb1260	8.00	7.94	99.29	85-115
	9 pcb1260-1	8.00	7.51	93.83	85-115
	10 pcb1260-2	8.00	7.26	90.78	85-115
	11 pcb1260-3	8.00	8.46	105.80	85-115
	12 pcb1260-4	8.00	8.52	106.57	85-115
\$	38 DCB	1.60	1.61	100.89	85-115

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	1.63	101.77	60-120
\$	38 DCB	0.600	1.61	100.89	60-120

Data File: /chem/gcp.i/26May2009.b/P052603b.d

Date : 26-MAY-2009 16:43

Client ID: LCS

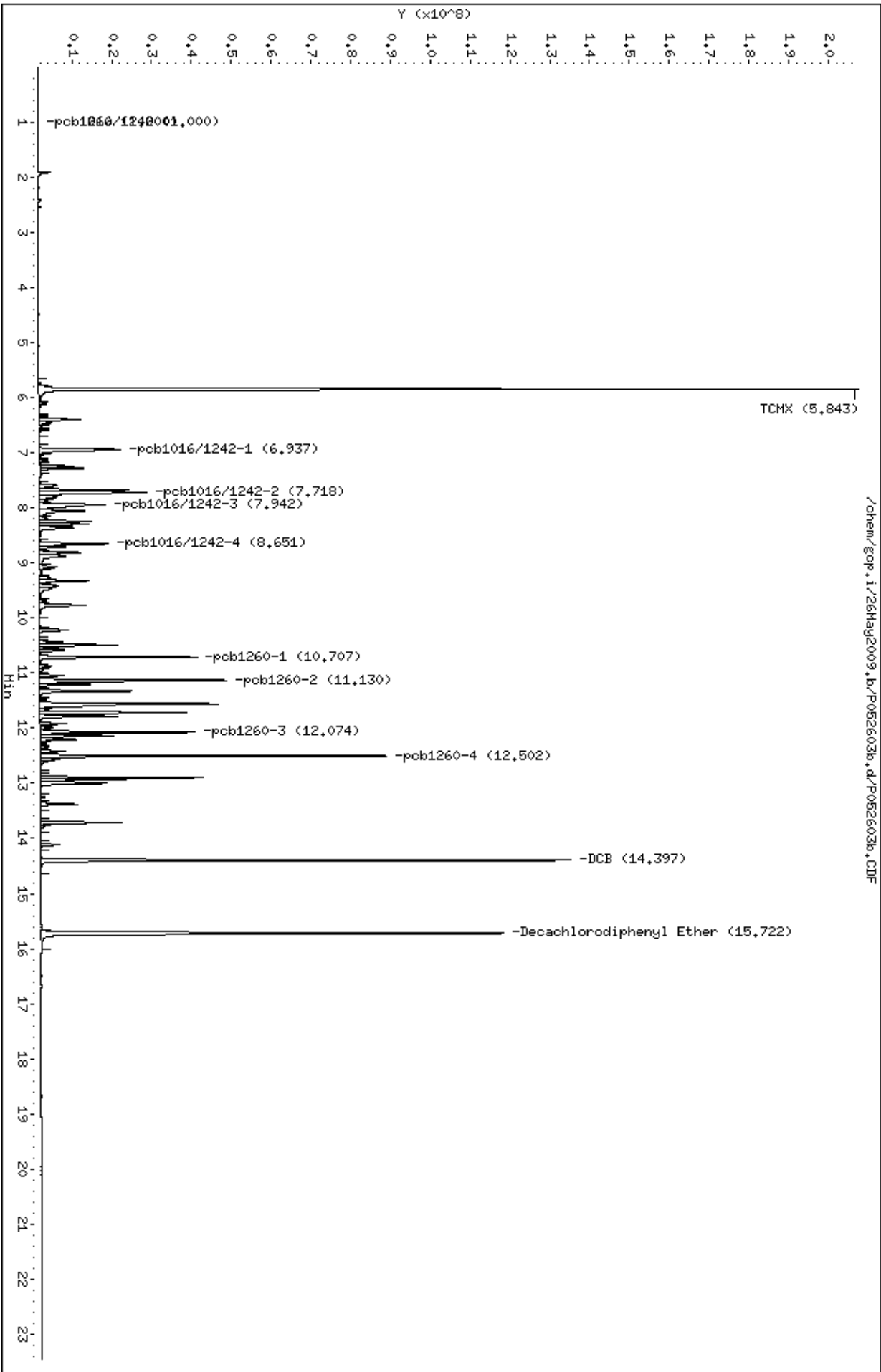
Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052203b.d

Lab Smp Id: 1685-137-1.0

Inj Date : 22-MAY-2009 19:06

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-1.0

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Meth Date : 01-Jun-2009 11:35 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 19:06

Cal File: P052203b.d

Als bottle: 1

Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.846	(0.372)	839893391	0.20000	0.209
M 3 pcb1016/1242				614054225	1.00000	1.12
4 pcb1016/1242-1	6.940	6.940	(0.441)	157853813	1.00000	1.12
5 pcb1016/1242-2	7.735	7.721	(0.492)	194186812	1.00000	1.07(M)
6 pcb1016/1242-3	7.960	7.945	(0.506)	152570380	1.00000	1.17
7 pcb1016/1242-4	8.654	8.655	(0.550)	109443220	1.00000	1.14
M 8 pcb1260				1141191489	1.00000	1.12
9 pcb1260-1	10.709	10.710	(0.681)	233670240	1.00000	1.18
10 pcb1260-2	11.134	11.133	(0.708)	341927793	1.00000	1.14
11 pcb1260-3	12.075	12.077	(0.768)	188146662	1.00000	1.14
12 pcb1260-4	12.505	12.505	(0.795)	377446794	1.00000	1.07
\$ 38 DCB	14.396	14.400	(0.916)	687013308	0.20000	0.219
* 39 Decachlorodiphenyl Ether	15.721	15.725	(1.000)	5772702923	2.00000	

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052203b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-1.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	5772702923	-7.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.72	-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/gcp.i/22May2009.b/P052203b.d

Date : 22-May-2009 19:06

Client ID:

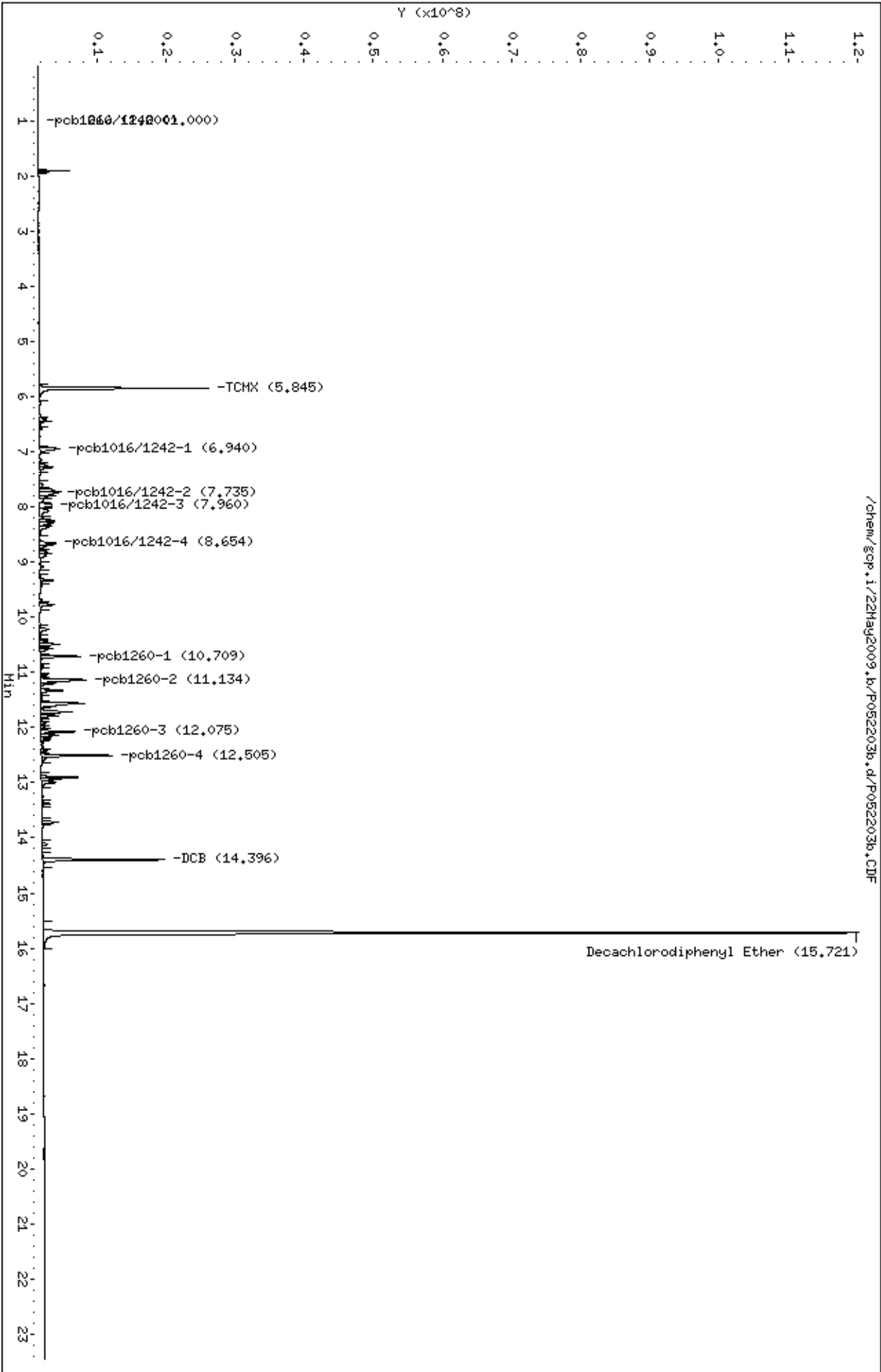
Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052204b.d

Calibration Time: 19:32

Lab Smp Id: 1685-137-3.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6019039360	3009519680	12038078720	6019039360	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/22May2009.b/P052204b.d

Date : 22-May-2009 19:32

Client ID:

Sample Info: 1685-137-3.0

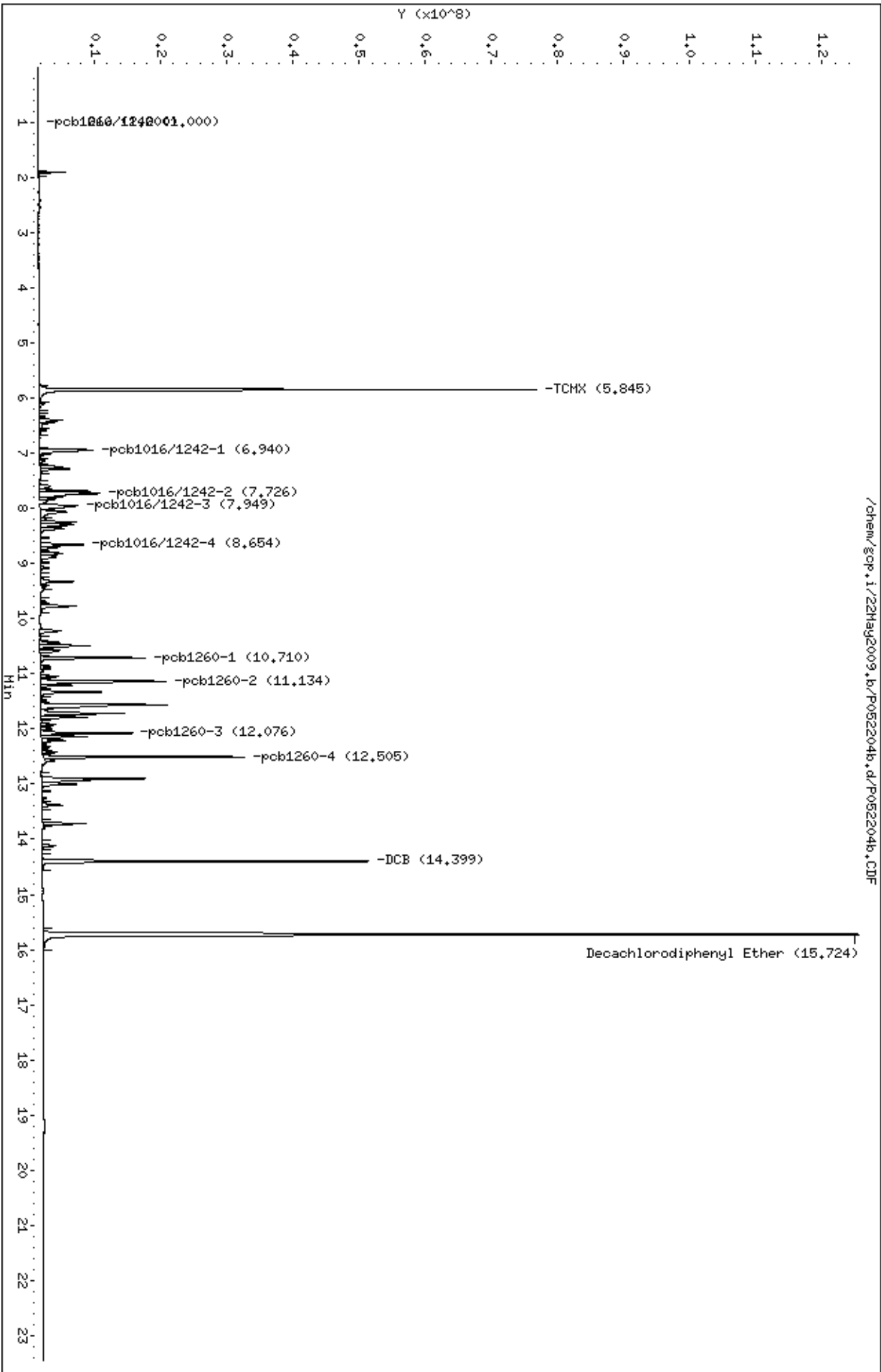
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052214b.d

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1254

Inj Date : 22-MAY-2009 23:59

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-121-5.0 PCB 1254

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Meth Date : 01-Jun-2009 11:35 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214b.d

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: 1254NS.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
M 33 pcb1254					4452229211	5.00000
34 pcb1254-1		9.331	9.345	(0.593)	776232959	5.00000
35 pcb1254-2		9.770	9.801	(0.621)	1165229563	5.00000
36 pcb1254-3		10.432	10.432	(0.663)	1227145810	5.00000
37 pcb1254-4		11.564	11.593	(0.735)	1283620879	5.00000
* 39 Decachlorodiphenyl Ether		15.728	15.725	(1.000)	6297319512	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052214b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1254

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6297319512	1.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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: /chem/gcp.i/22May2009.b/P052214b.d

Date : 22-MAY-2009 23:59

Client ID: PCB 1254

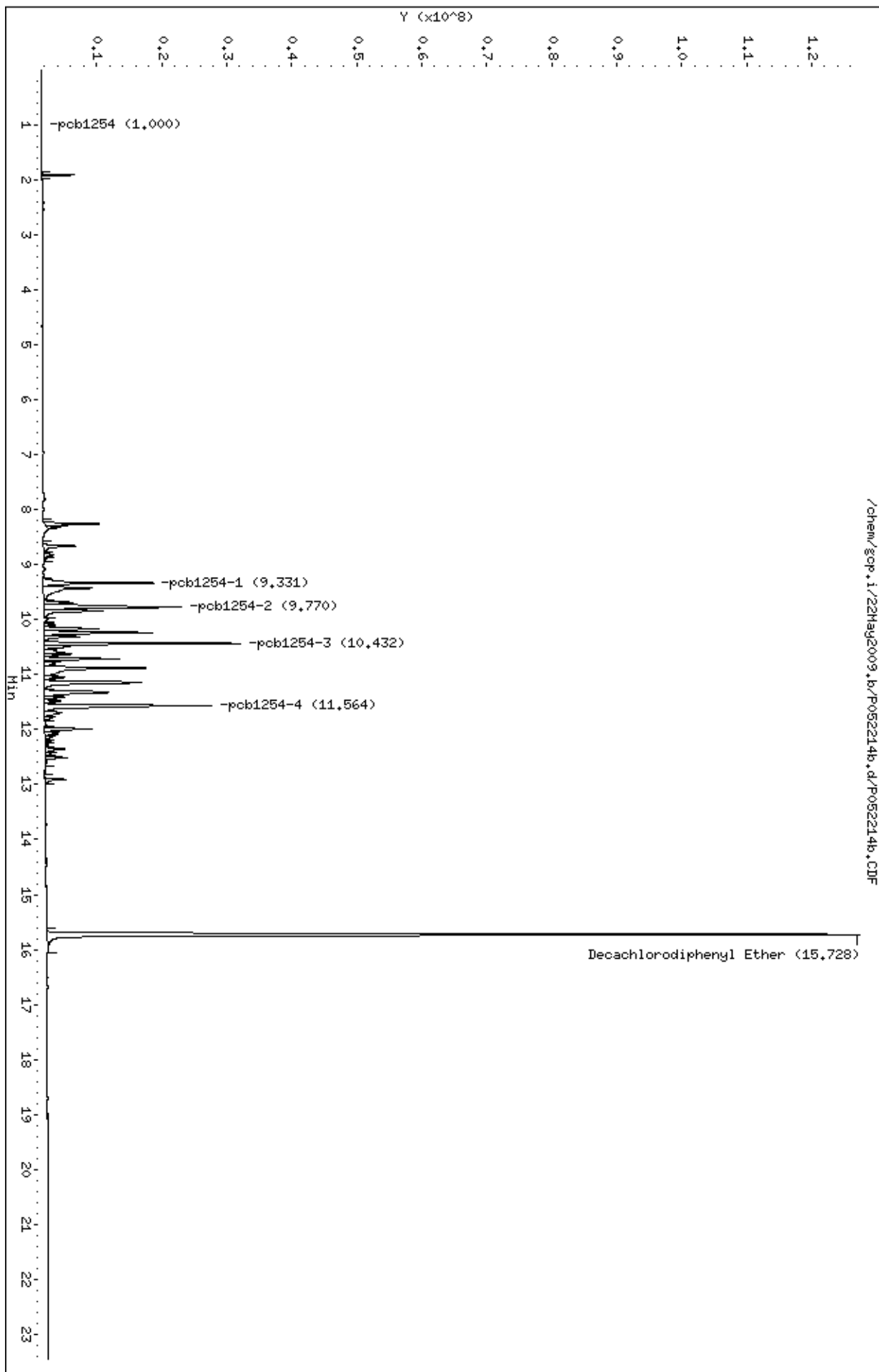
Sample Info: 1685-121-5.0 PCB 1254

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052213b.d

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1248

Inj Date : 22-MAY-2009 23:33

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-121-5.0 PCB 1248

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Meth Date : 01-Jun-2009 11:33 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214b.CDF

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: 1248NS.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
M 28 pcb1248					1715292178	5.00000
29 pcb1248-1		8.365	8.485	(0.532)	423689854	5.00000
30 pcb1248-2		9.271	9.295	(0.590)	327911370	5.00000
31 pcb1248-3		9.417	9.417	(0.599)	700493056	5.00000
32 pcb1248-4		10.237	10.255	(0.651)	263197898	5.00000
* 39 Decachlorodiphenyl Ether		15.727	15.725	(1.000)	6522634623	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052213b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1248

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6522634623	5.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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: /chem/gcp.i/22May2009.b/P052213b.d

Date : 22-MAY-2009 23:33

Client ID: PCB 1248

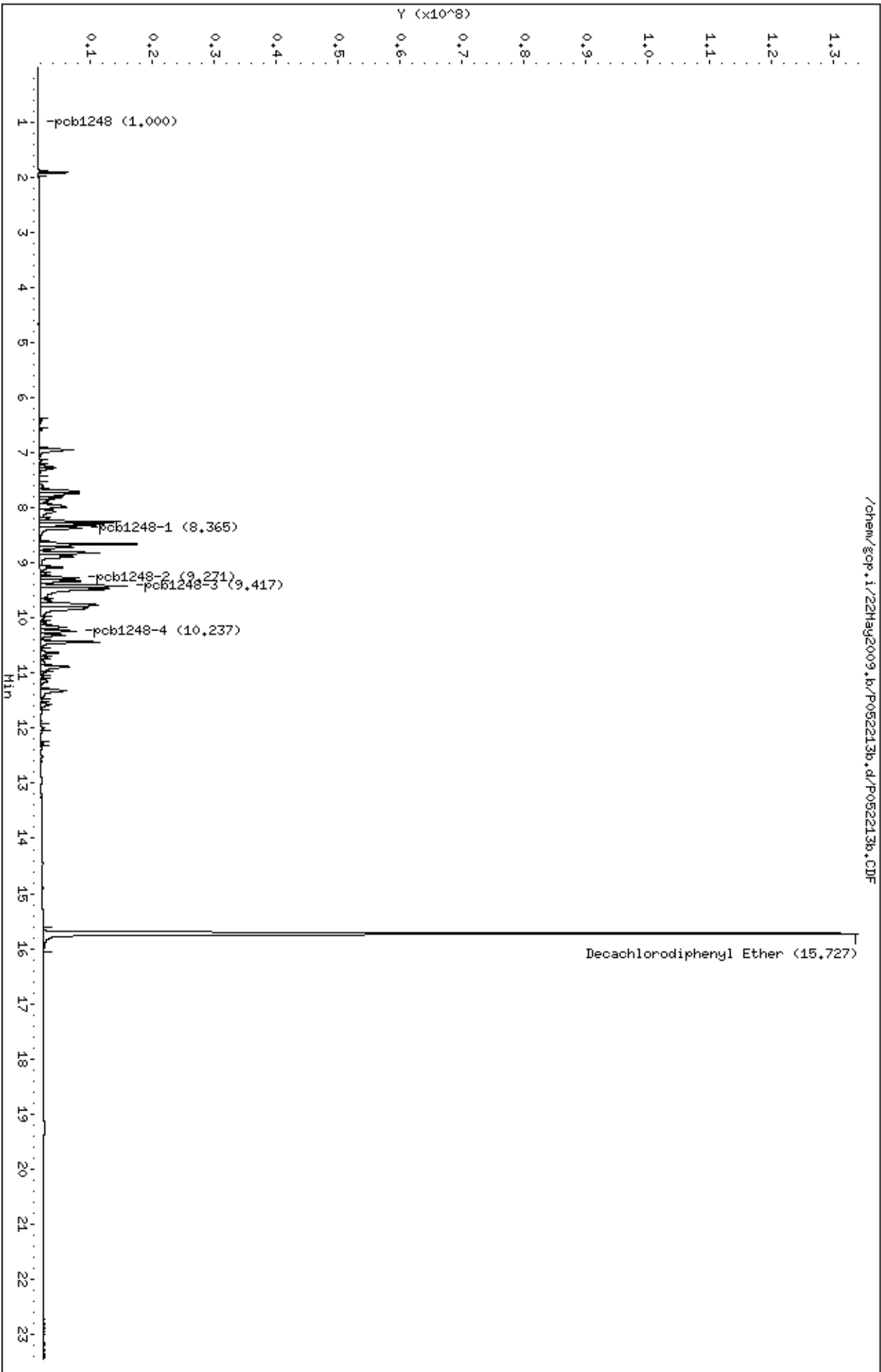
Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052212b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1232
Inj Date : 22-MAY-2009 23:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1232
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1232NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		AMOUNTS				
					CAL-AMT	ON-COL
Compounds	RT	EXP	RT	REL	RT	RESPONSE
=====	==	=====	=====	=====	=====	=====
M 18 pcb1232						637480447
19 pcb1232-1	7.288	7.394	(0.463)		145074950	5.00000
20 pcb1232-2	8.069	8.069	(0.513)		205917937	5.00000
21 pcb1232-3	8.254	8.254	(0.525)		139150535	5.00000
22 pcb1232-4	8.302	8.302	(0.528)		147337025	5.00000
* 39 Decachlorodiphenyl Ether	15.726	15.725	(1.000)		6594321184	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052212b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1232

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6594321184	6.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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/gcp.i/22May2009.b/P052212b.d

Date : 22-MAY-2009 23:06

Client ID: PCB 1232

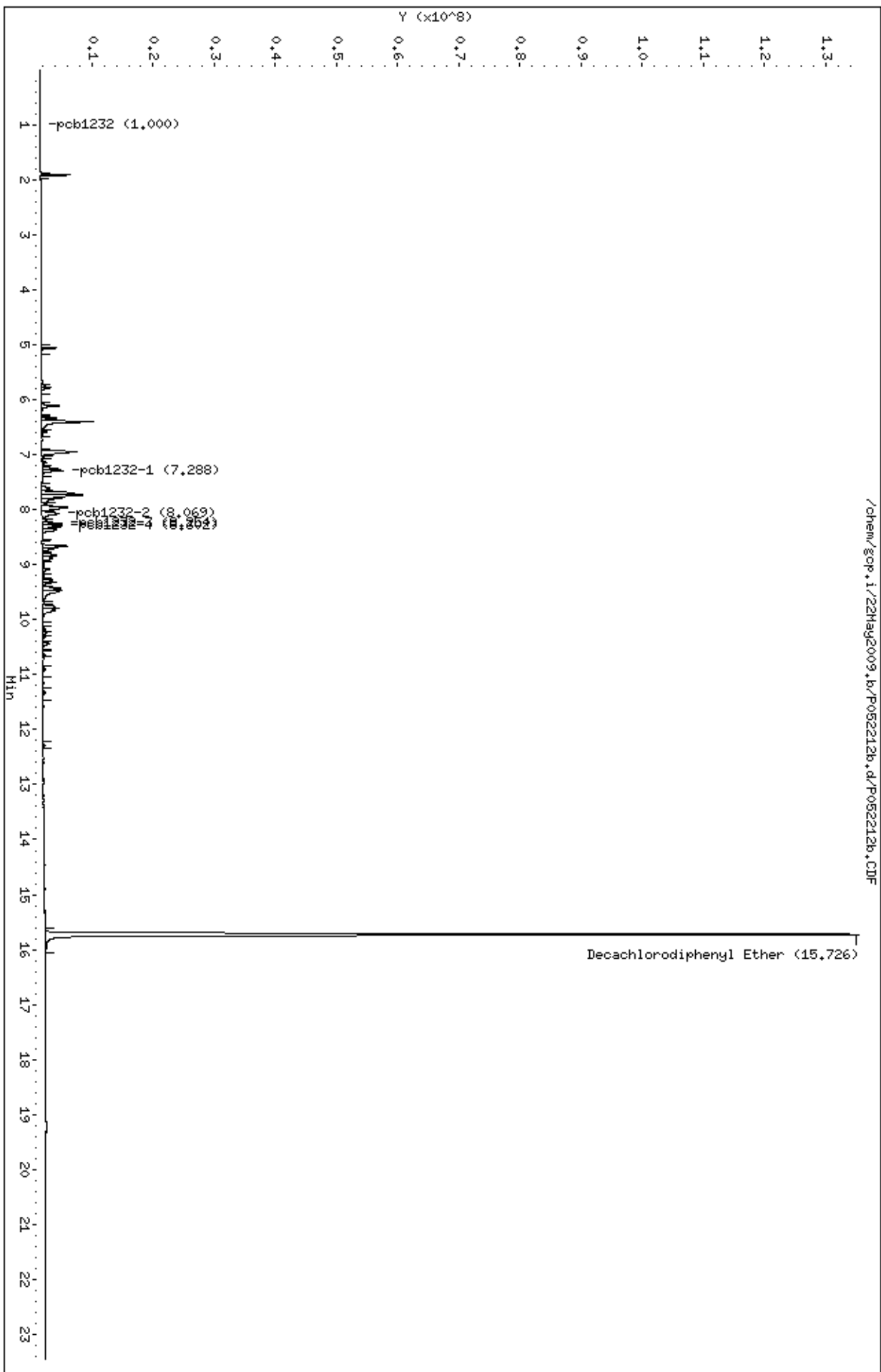
Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052211b.d

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1221

Inj Date : 22-MAY-2009 22:39

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-121-5.0 PCB 1221

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Meth Date : 01-Jun-2009 11:33 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214b.CDF

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: 1221NS.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
M 13 pcb1221					947323288	5.00000
14 pcb1221-1	5.054	5.127	(0.321)	140824400	5.00000	5.00
15 pcb1221-2	6.105	6.191	(0.388)	210754016	5.00000	5.00
16 pcb1221-3	6.332	6.348	(0.403)	110226929	5.00000	5.00
17 pcb1221-4	6.398	6.488	(0.407)	485517943	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.727	15.725	(1.000)	6380074891	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052211b.d

Calibration Time: 20:26

Lab Smp Id: 1685-121-5.0

Client Smp ID: PCB 1221

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6380074891	2.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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: /chem/gcp.i/22May2009.b/P052211b.d

Date : 22-MAY-2009 22:39

Client ID: PCB 1221

Sample Info: 1685-121-5.0 PCB 1221

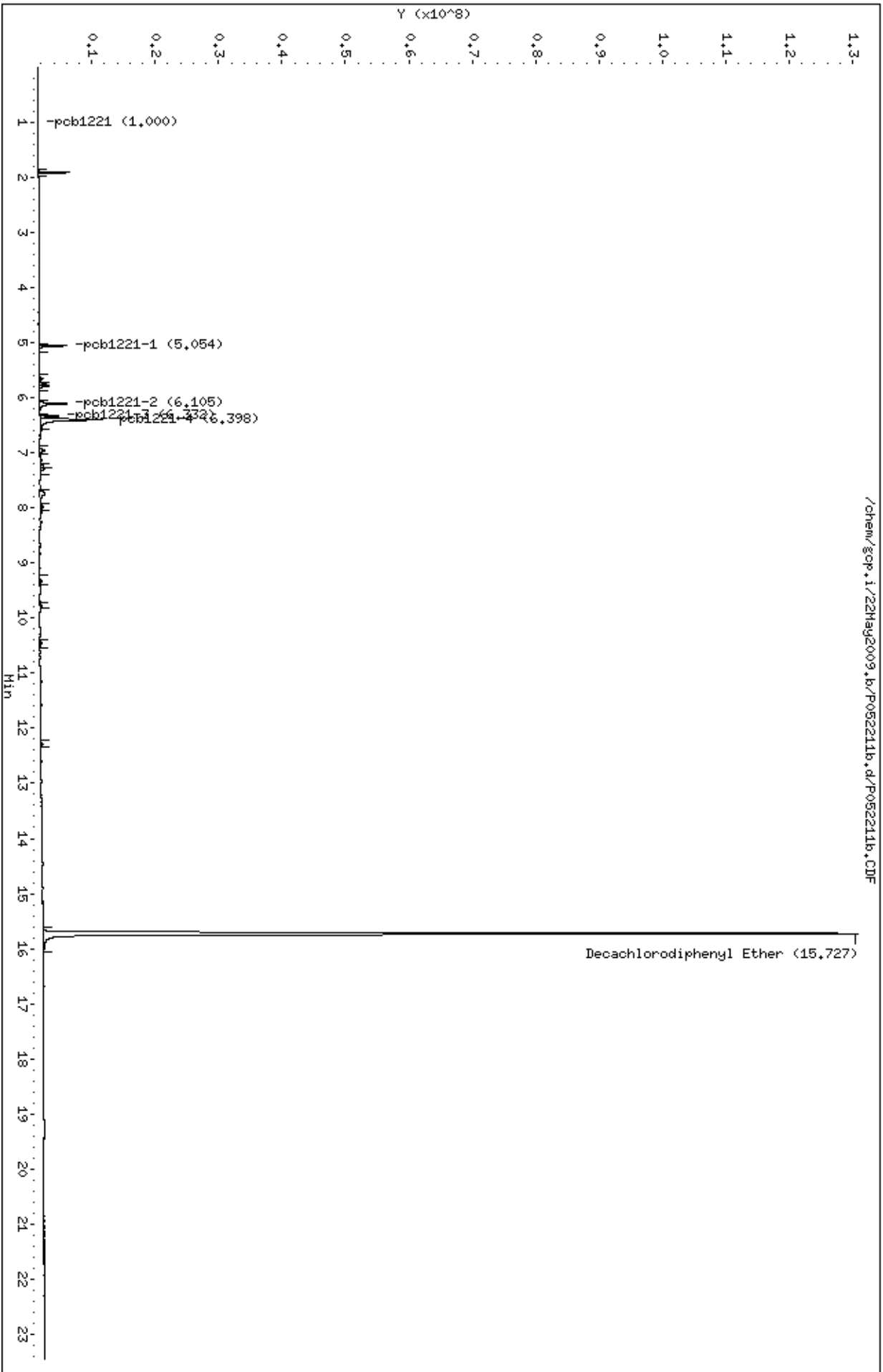
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052205b.d

Lab Smp Id: 1685-137-5.0

Inj Date : 22-MAY-2009 19:59

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-5.0

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Meth Date : 01-Jun-2009 11:33 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 23:59

Cal File: P052214b.CDF

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.846	(0.372)	4355015098	1.00000	1.03
M 3 pcb1016/1242				2964881217	5.00000	5.12
4 pcb1016/1242-1	6.939	6.940	(0.441)	773824679	5.00000	5.19
5 pcb1016/1242-2	7.722	7.721	(0.491)	976359954	5.00000	5.12
6 pcb1016/1242-3	7.946	7.945	(0.505)	701787152	5.00000	5.09
7 pcb1016/1242-4	8.654	8.655	(0.550)	512909432	5.00000	5.08
M 8 pcb1260				5506374392	5.00000	5.15
9 pcb1260-1	10.709	10.710	(0.681)	1074372980	5.00000	5.16
10 pcb1260-2	11.133	11.133	(0.708)	1629373246	5.00000	5.15
11 pcb1260-3	12.075	12.077	(0.768)	890865907	5.00000	5.12
12 pcb1260-4	12.504	12.505	(0.795)	1911762259	5.00000	5.15
\$ 38 DCB	14.398	14.400	(0.916)	3377158256	1.00000	1.02
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6087587940	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052205b.d

Calibration Time: 23:59

Lab Smp Id: 1685-137-5.0

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6087587940	3043793970	12175175881	6087587940	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.72	15.22	16.22	15.72	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/gcp.i/22May2009.b/P052205b.d

Date : 22-May-2009 19:59

Client ID:

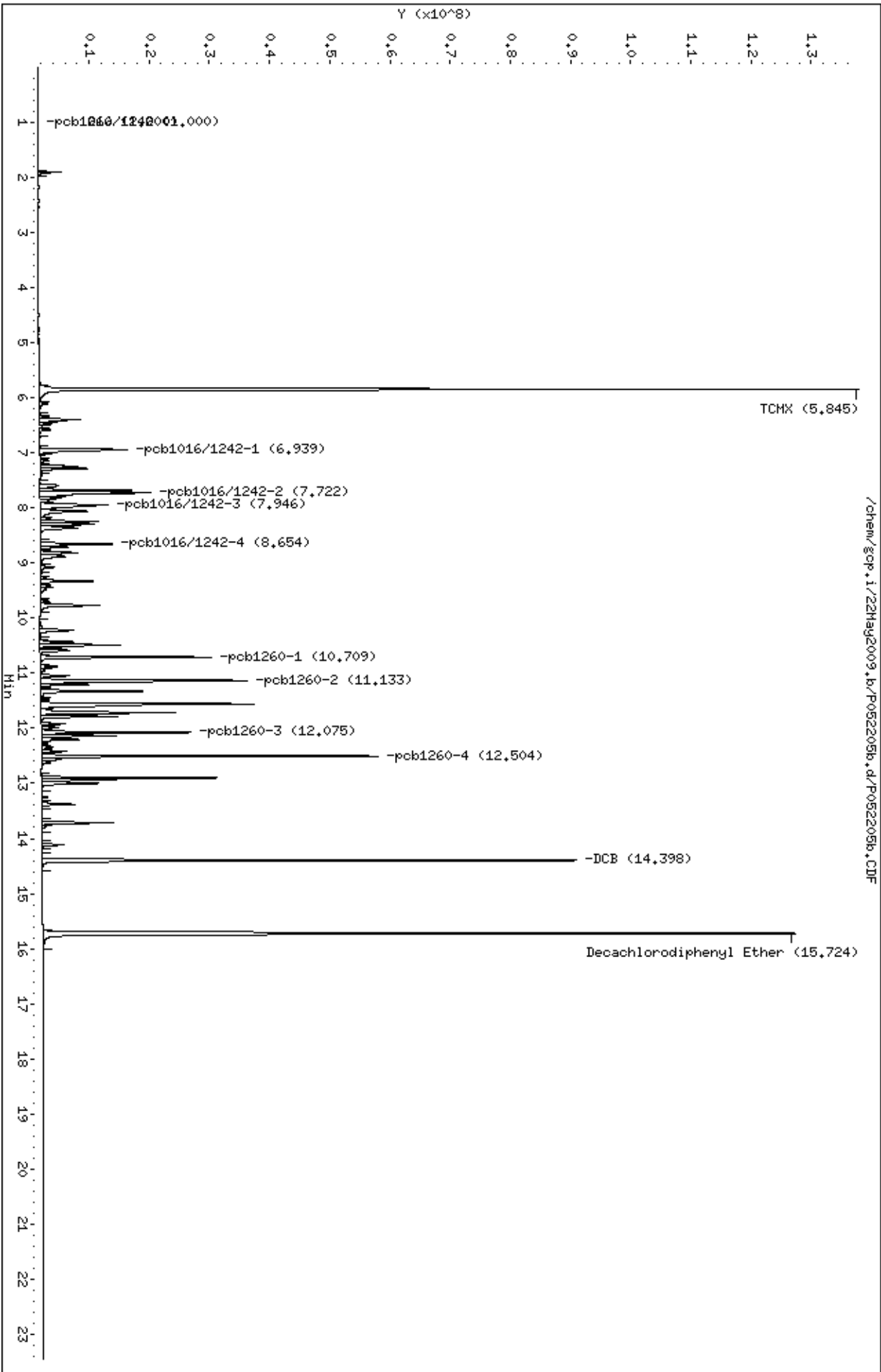
Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052206b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-8.0

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6209085211	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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/gcp.i/22May2009.b/P052206b.d

Date : 22-May-2009 20:26

Client ID:

Sample Info: 1685-137-8.0

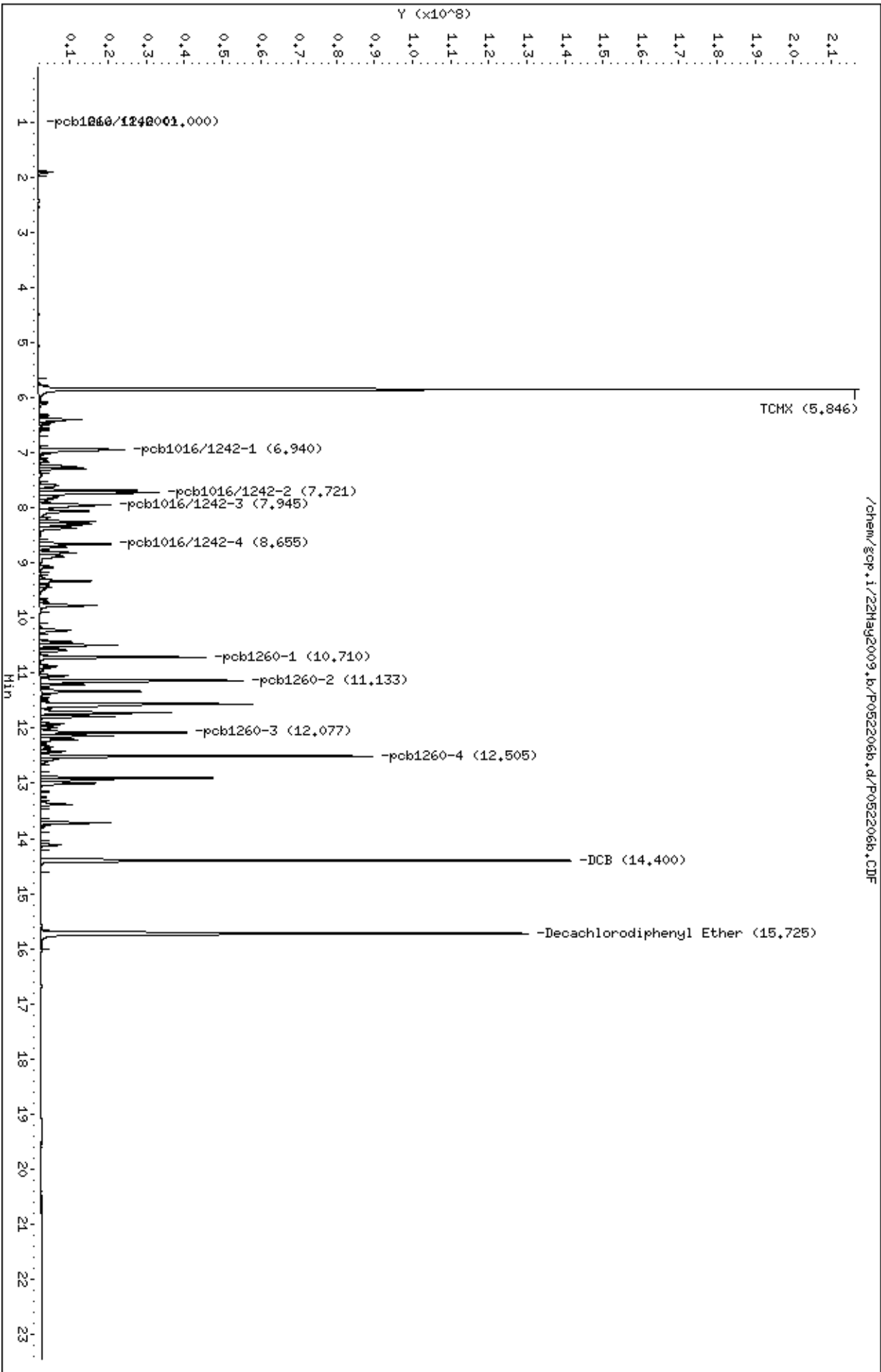
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052207b.d
Lab Smp Id:
Inj Date : 22-MAY-2009 20:53
Operator : rn
Smp Info : 1685-137-10
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang
Cal Date : 22-MAY-2009 20:53
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50
Processing Host: eeyore

Inst ID: gcp.i

Quant Type: ISTD

Cal File: P052207b.d

Calibration Sample, Level: 5

Compound Sublist: CCV.sub

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd VariableLocal Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
\$ 2 TCMX		5.845	5.846	(0.372)	8663720233	2.00000
M 3 pcb1016/1242					5785850656	10.0000
4 pcb1016/1242-1		6.940	6.940	(0.441)	1470014364	10.0000
5 pcb1016/1242-2		7.720	7.721	(0.491)	1940209535	10.0000
6 pcb1016/1242-3		7.944	7.945	(0.505)	1363926433	10.0000
7 pcb1016/1242-4		8.654	8.655	(0.550)	1011700324	10.0000
M 8 pcb1260					10684131643	10.0000
9 pcb1260-1		10.710	10.710	(0.681)	2039266507	10.0000
10 pcb1260-2		11.133	11.133	(0.708)	3147090602	10.0000
11 pcb1260-3		12.076	12.077	(0.768)	1727028028	10.0000
12 pcb1260-4		12.504	12.505	(0.795)	3770746506	10.0000
\$ 38 DCB		14.399	14.400	(0.916)	6654959184	2.00000
* 39 Decachlorodiphenyl Ether		15.725	15.725	(1.000)	6256297503	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052207b.d

Calibration Time: 20:26

Lab Smp Id:

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6256297503	0.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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/gcp.i/22May2009.b/P052207b.d

Date : 22-May-2009 20:53

Client ID:

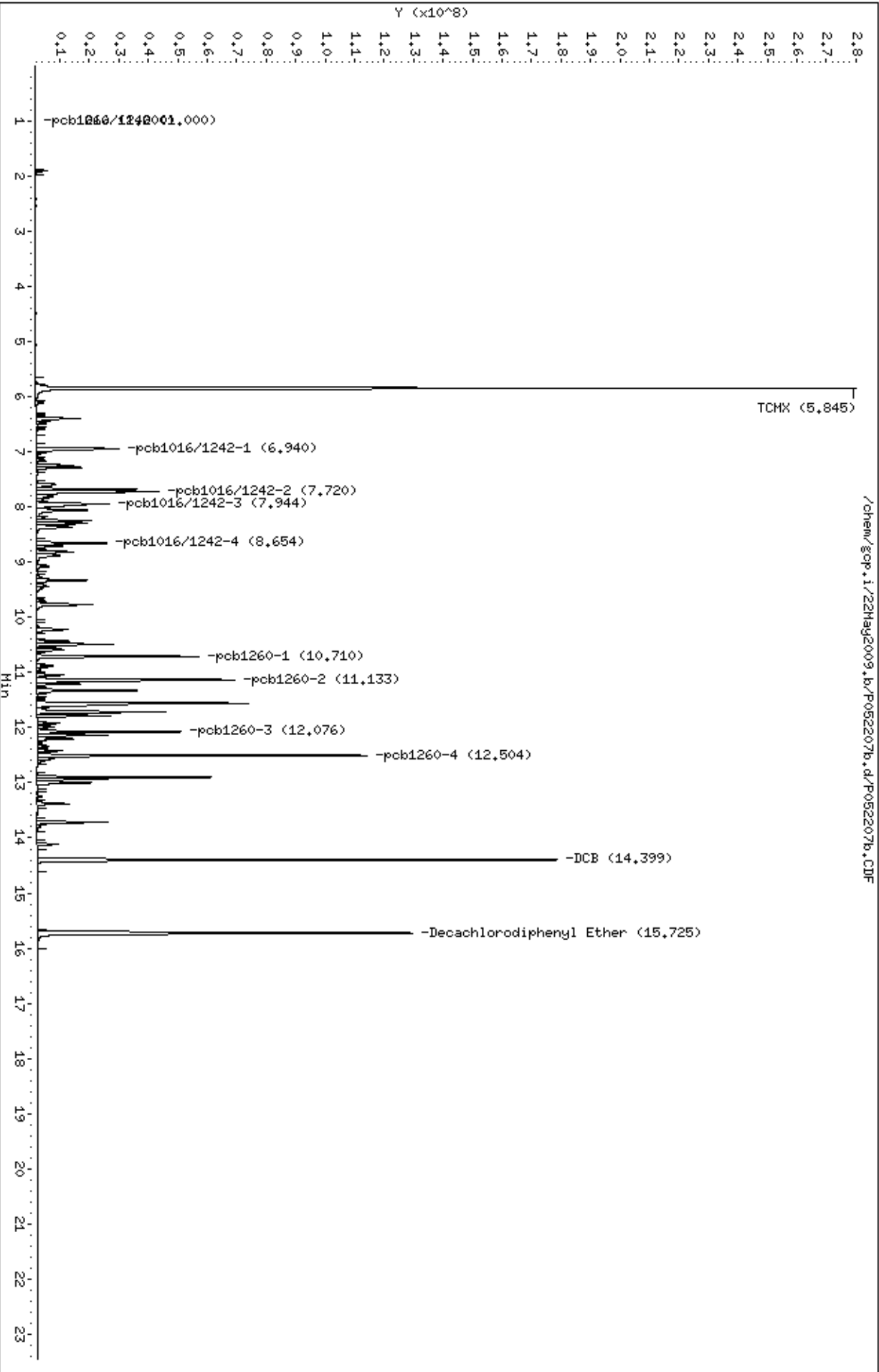
Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052208b.d

Lab Smp Id: 1685-137-12

Inj Date : 22-MAY-2009 21:19

Operator : rn

Inst ID: gcp.i

Smp Info : 1685-137-12

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Meth Date : 01-Jun-2009 11:33 lzhang

Quant Type: ISTD

Cal Date : 22-MAY-2009 21:19

Cal File: P052208b.d

Als bottle: 1

Calibration Sample, Level: 6

Dil Factor: 1.00000

Integrator: HP Genie

Compound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		AMOUNTS				
		CAL-AMT	ON-COL			
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.845	5.846	(0.372)	10179829291	2.40000	2.41
M 3 pcb1016/1242				6807108544	12.0000	11.8
4 pcb1016/1242-1	6.939	6.940	(0.441)	1729630176	12.0000	11.6
5 pcb1016/1242-2	7.719	7.721	(0.491)	2285114861	12.0000	12.0
6 pcb1016/1242-3	7.943	7.945	(0.505)	1600673108	12.0000	11.6
7 pcb1016/1242-4	8.653	8.655	(0.550)	1191690399	12.0000	11.9
M 8 pcb1260				12610841780	12.0000	11.8
9 pcb1260-1	10.709	10.710	(0.681)	2389888028	12.0000	11.5
10 pcb1260-2	11.132	11.133	(0.708)	3705820834	12.0000	11.8
11 pcb1260-3	12.076	12.077	(0.768)	2042093212	12.0000	11.8
12 pcb1260-4	12.504	12.505	(0.795)	4473039706	12.0000	12.1
\$ 38 DCB	14.398	14.400	(0.916)	7905168214	2.40000	2.40
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6059616165	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052208b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-12

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6059616165	-2.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.72	-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: /chem/gcp.i/22May2009.b/P052208b.d

Page 1

Date : 22-May-2009 21:19

Client ID:

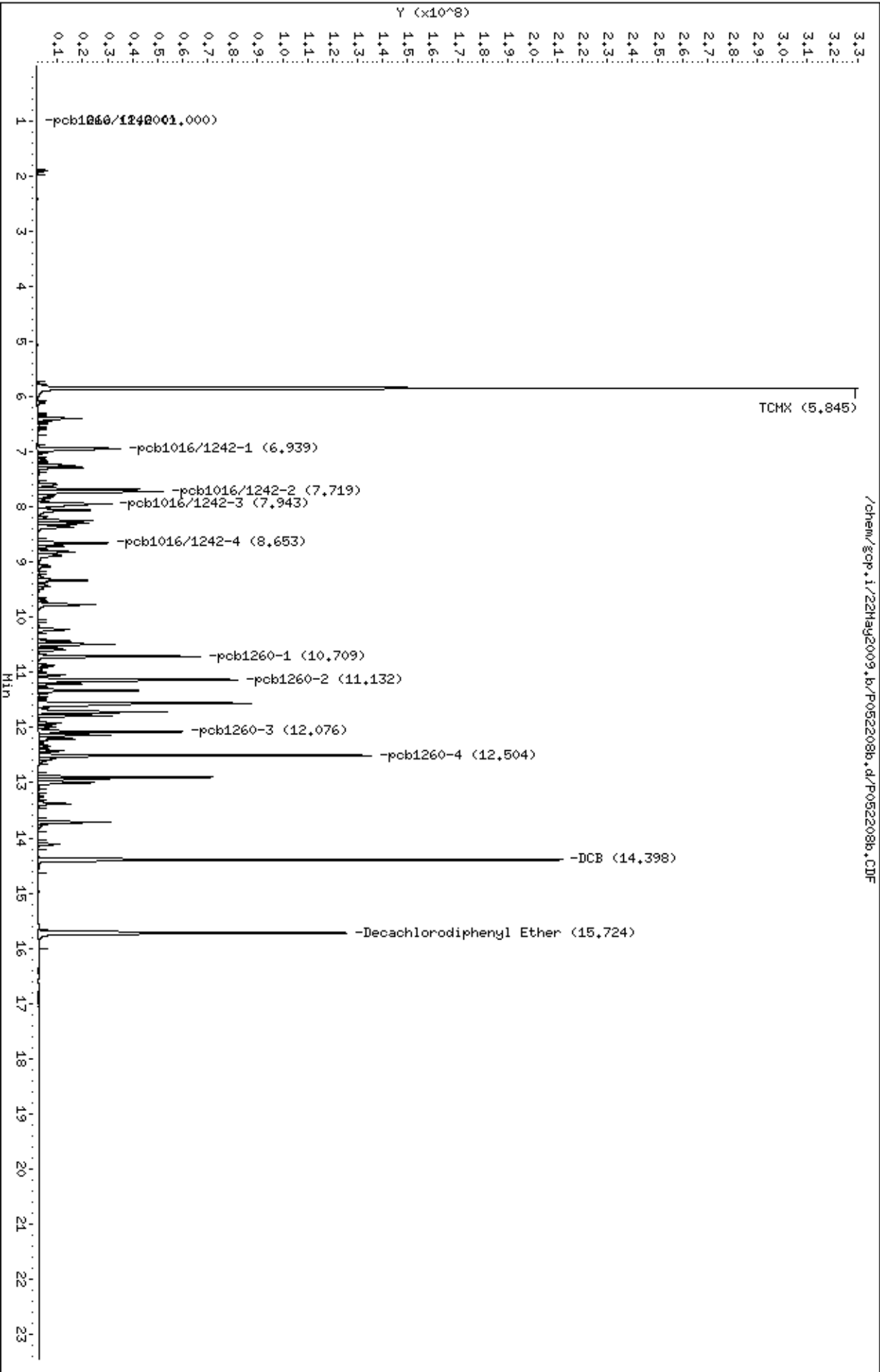
Sample Info: 1685-137-12

Instrument: gcp.i

Column phase:

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 22-MAY-2009

Lab File ID: P052209b.d

Calibration Time: 20:26

Lab Smp Id: 1685-137-15

Level: LOW

Analysis Type: VOA

Sample Type: AIR

Quant Type: ISTD

Operator: rn

Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	6209085211	3104542606	12418170423	6195939552	-0.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.73	15.23	16.23	15.73	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/gcp.i/22May2009.b/P052209b.d

Date : 22-May-2009 21:46

Client ID:

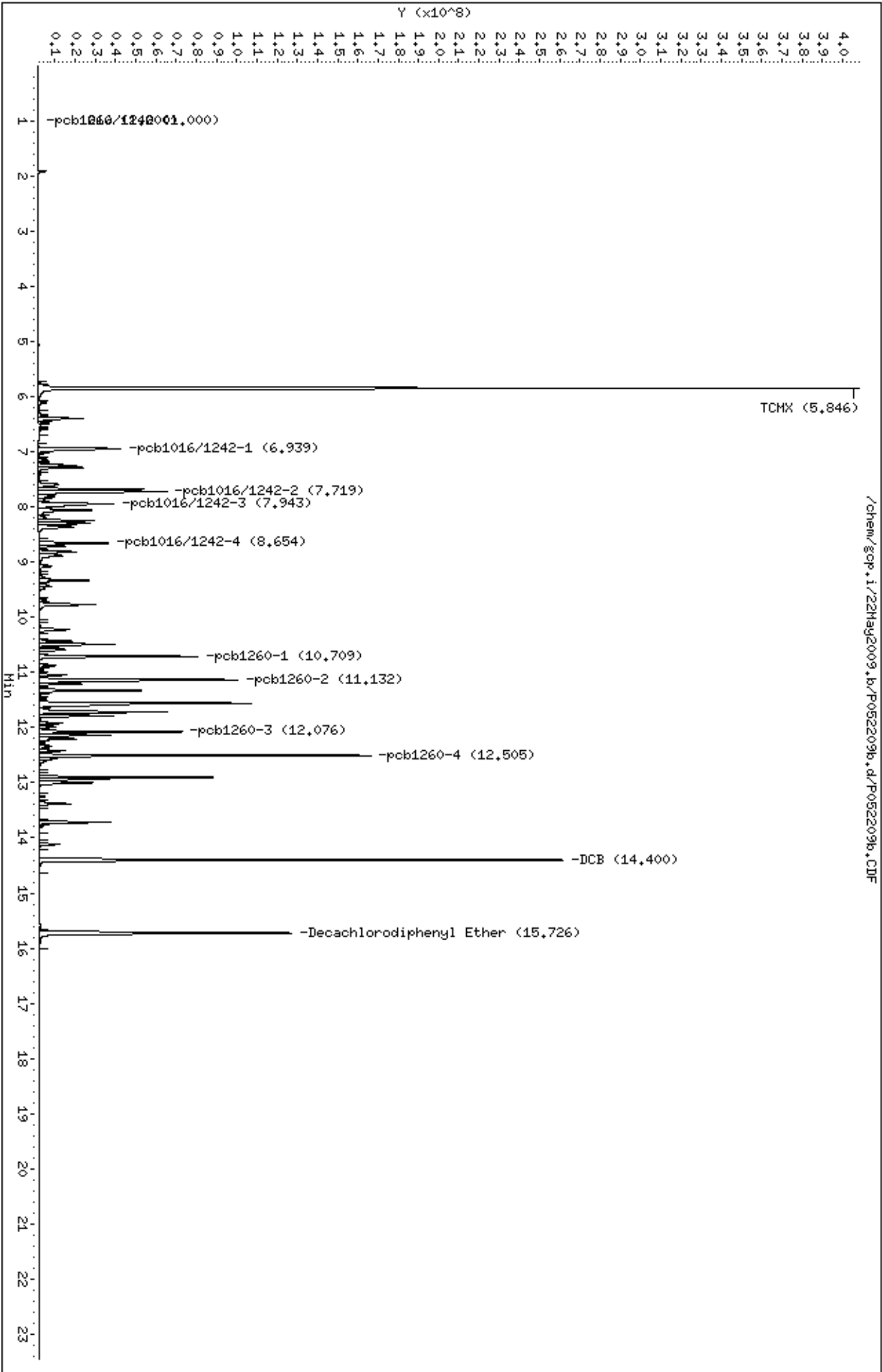
Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 14-JUL-2009 18:36

Lab File ID: P071403.d

Init. Cal. Date(s): 22-MAY-2009 22-MAY-2009

Analysis Type: AIR

Init. Cal. Times: 19:06 23:59

Lab Sample ID: 1685-137A-5 PCB Quant Type: ISTD

Method: /chem/gcp.i/14Jul2009.b/p09p0522.m

				MIN		MAX	
COMPOUND		RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====		=====	=====	=====	=====	=====	=====
\$	2 TCMX	1.55926	1.55879	0.010	0.02979	15.00000	Averaged
M	3 pcb1016/1242	0.22650	0.21802	0.010	3.74563	15.00000	Averaged
	4 pcb1016/1242-1	0.03648	0.03559	0.010	2.43804	15.00000	Averaged
	5 pcb1016/1242-2	0.09165	0.08494	0.010	7.31740	15.00000	Averaged
	6 pcb1016/1242-3	0.05699	0.05787	0.010	-1.54730	15.00000	Averaged
	7 pcb1016/1242-4	0.04139	0.03962	0.010	4.27768	15.00000	Averaged
M	8 pcb1260	0.36669	0.33836	0.010	7.72363	15.00000	Averaged
	9 pcb1260-1	0.07592	0.07071	0.010	6.86813	15.00000	Averaged
	10 pcb1260-2	0.09265	0.08644	0.010	6.69959	15.00000	Averaged
	11 pcb1260-3	0.06766	0.06175	0.010	8.73870	15.00000	Averaged
	12 pcb1260-4	0.13045	0.11946	0.010	8.42236	15.00000	Averaged
\$	38 DCB	1.04743	0.94671	0.010	9.61567	15.00000	Averaged

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071403.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 14-JUL-2009 18:36
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL
						(ug/mL) (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ON-COL
=====		==	=====	=====	=====	=====
\$ 2	TCMX	6.009	6.009	(0.352)	14534804351	1.00000 1.000
M 3	pcb1016/1242				10164531610	5.00000 4.81
4	pcb1016/1242-1	7.418	7.418	(0.434)	1659285211	5.00000 4.88
5	pcb1016/1242-2	8.217	8.217	(0.481)	3960061889	5.00000 4.63
6	pcb1016/1242-3	8.453	8.453	(0.495)	2698215713	5.00000 5.08
7	pcb1016/1242-4	9.285	9.285	(0.544)	1846968797	5.00000 4.79
M 8	pcb1260				15775214890	5.00000 4.61
9	pcb1260-1	11.349	11.349	(0.665)	3296642550	5.00000 4.66
10	pcb1260-2	11.657	11.657	(0.683)	4030183393	5.00000 4.66
11	pcb1260-3	12.729	12.729	(0.746)	2878929996	5.00000 4.56
12	pcb1260-4	13.067	13.067	(0.765)	5569458952	5.00000 4.58
\$ 38	DCB	15.403	15.403	(0.902)	8827482165	1.00000 0.904
* 39	Decachlorodiphenyl Ether	17.074	17.074	(1.000)	18648773486	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071403.d

Calibration Time: 18:36

Lab Smp Id: 1685-137A-5 PCB

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	18648773486	9324386743	37297546971	18648773486	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.07	16.57	17.57	17.07	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/gcp.i/14Jul2009.b/P071403.d

Date : 14-JUL-2009 18:36

Client ID: CCV

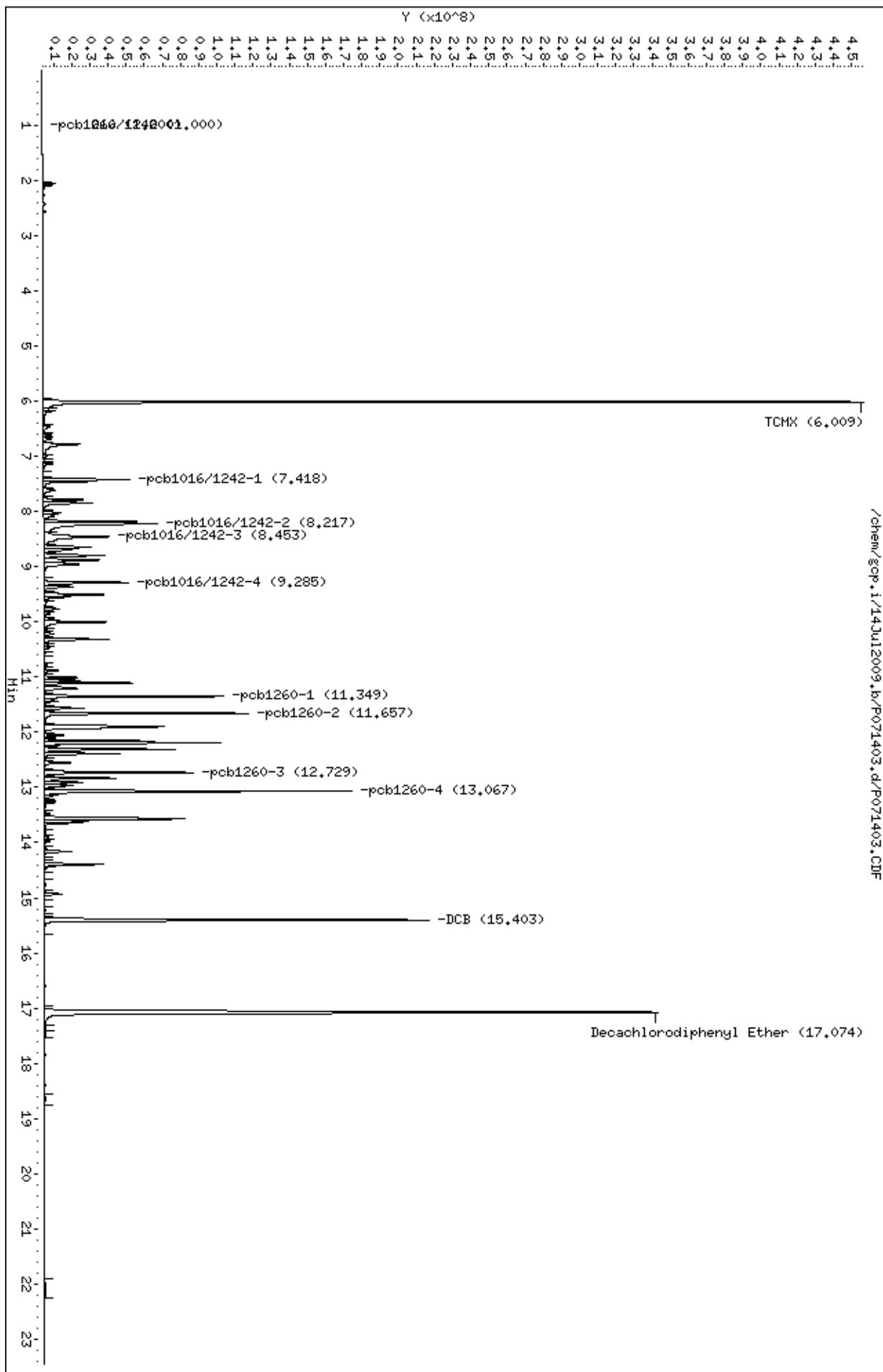
Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 14-JUL-2009 18:36

Lab File ID: P071403b.d

Init. Cal. Date(s): 22-MAY-2009 22-MAY-2009

Analysis Type: AIR

Init. Cal. Times: 19:06 23:59

Lab Sample ID: 1685-137A-5 PCB Quant Type: ISTD

Method: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
\$ 2 TCMX	1.39223	1.34891	0.010	3.11147	15.00000	Averaged
M 3 pcb1016/1242	0.19014	0.18255	0.010	3.99198	15.00000	Averaged
4 pcb1016/1242-1	0.04901	0.04760	0.010	2.87318	15.00000	Averaged
5 pcb1016/1242-2	0.06266	0.06070	0.010	3.11984	15.00000	Averaged
6 pcb1016/1242-3	0.04532	0.04295	0.010	5.23907	15.00000	Averaged
7 pcb1016/1242-4	0.03315	0.03130	0.010	5.58927	15.00000	Averaged
M 8 pcb1260	0.35151	0.32568	0.010	7.34911	15.00000	Averaged
9 pcb1260-1	0.06846	0.06468	0.010	5.51260	15.00000	Averaged
10 pcb1260-2	0.10395	0.09705	0.010	6.63518	15.00000	Averaged
11 pcb1260-3	0.05717	0.05210	0.010	8.87321	15.00000	Averaged
12 pcb1260-4	0.12193	0.11184	0.010	8.27424	15.00000	Averaged
\$ 38 DCB	1.08460	0.97132	0.010	10.44420	15.00000	Averaged

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071403b.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 14-JUL-2009 18:36
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		AMOUNTS				
		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
						ON-COL (ug/mL)
Compounds		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
=====		==	=====	=====	=====	=====
\$ 2 TCMX		5.829	5.829	(0.371)	5463121731	1.00000
M 3 pcb1016/1242					3696669693	5.00000
4 pcb1016/1242-1		6.922	6.922	(0.441)	963894204	5.00000
5 pcb1016/1242-2		7.702	7.702	(0.491)	1229248975	5.00000
6 pcb1016/1242-3		7.925	7.925	(0.505)	869688011	5.00000
7 pcb1016/1242-4		8.632	8.632	(0.550)	633838503	5.00000
M 8 pcb1260					6595012330	5.00000
9 pcb1260-1		10.691	10.691	(0.681)	1309862374	5.00000
10 pcb1260-2		11.114	11.114	(0.708)	1965321586	5.00000
11 pcb1260-3		12.058	12.058	(0.768)	1054966898	5.00000
12 pcb1260-4		12.487	12.487	(0.795)	2264861472	5.00000
\$ 38 DCB		14.380	14.380	(0.916)	3933851280	1.00000
* 39 Decachlorodiphenyl Ether		15.699	15.699	(1.000)	8100028078	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071403b.d

Calibration Time: 18:36

Lab Smp Id: 1685-137A-5 PCB

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	8100028078	4050014039	16200056156	8100028078	0.00
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	15.70	15.20	16.20	15.70	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/gcp.i/14Jul2009.b/P071403b.d

Date : 14-JUL-2009 18:36

Client ID: CCV

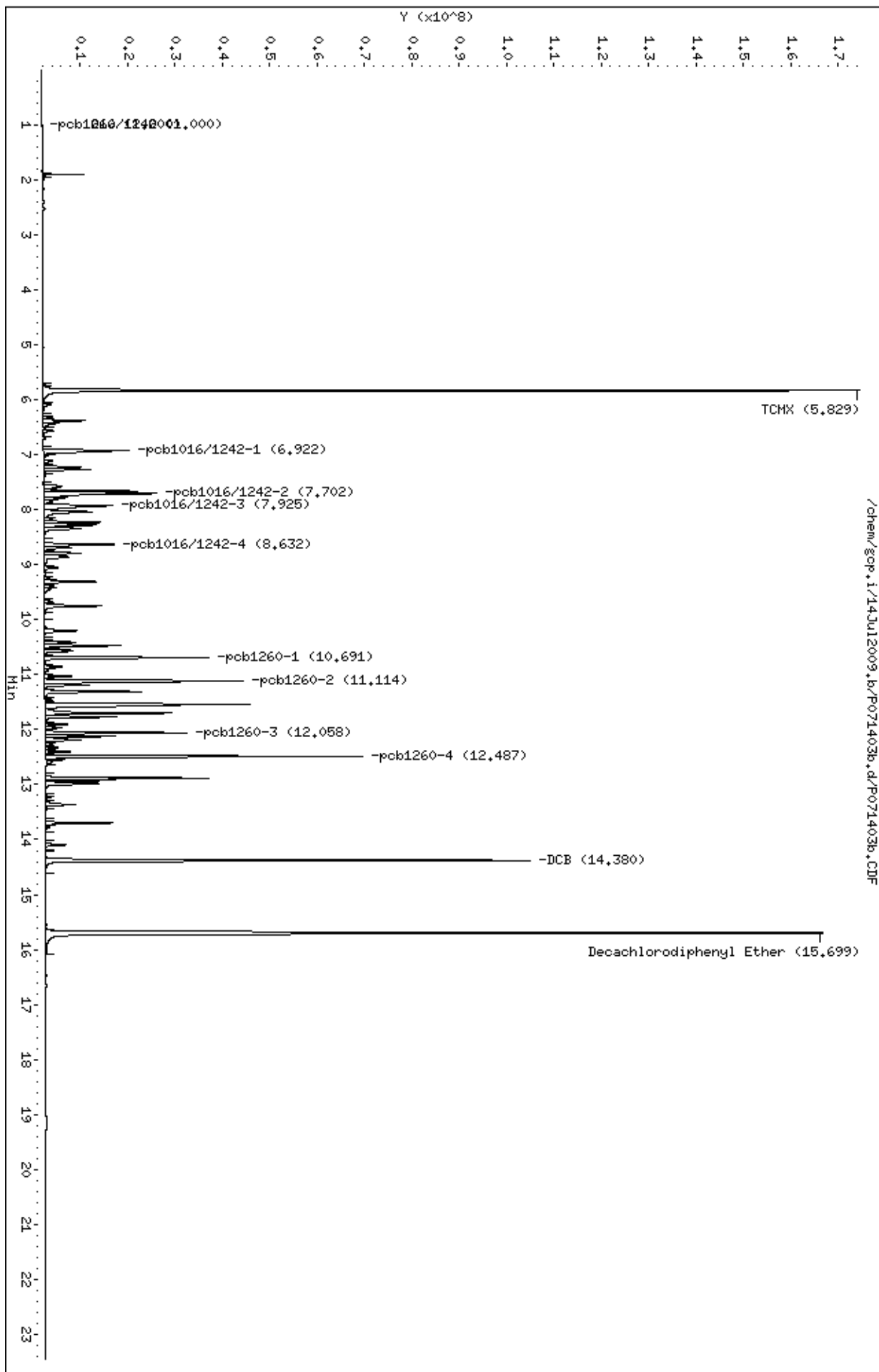
Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 14-JUL-2009 19:02

Lab File ID: P071404.d

Init. Cal. Date(s): 19-MAY-2009 19-MAY-2009

Analysis Type: AIR

Init. Cal. Times: 17:30 20:37

Lab Sample ID: 1685-135A-0.6

Quant Type: ISTD

Method: /chem/gcp.i/14Jul2009.b/p0910519.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF0.600	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
\$ 2 TCMX	1.93689	1.80674	0.010	6.71933	15.00000	Averaged
8 a-BHC	2.78691	2.70367	0.010	2.98663	15.00000	Averaged
9 g-BHC	2.59350	2.48719	0.010	4.09908	15.00000	Averaged
10 b-BHC	1.06860	1.00836	0.010	5.63685	15.00000	Averaged
11 d-BHC	2.40790	2.07446	0.010	13.84767	15.00000	Averaged
12 Heptachlor	2.36193	2.27217	0.010	3.80045	15.00000	Averaged
13 Aldrin	2.30099	2.23432	0.010	2.89763	15.00000	Averaged
14 Heptachlor Epoxide	1.98166	1.90587	0.010	3.82479	15.00000	Averaged
15 g-Chlordane	2.08862	2.01398	0.010	3.57345	15.00000	Averaged
16 a-Chlordane	1.97230	1.89440	0.010	3.95006	15.00000	Averaged
17 Endosulfan I	1.77828	1.66626	0.010	6.29945	15.00000	Averaged
18 DDE	1.89126	1.82969	0.010	3.25554	15.00000	Averaged
19 Dieldrin	1.94026	1.86204	0.010	4.03159	15.00000	Averaged
20 Endrin	1.71932	1.62728	0.010	5.35339	15.00000	Averaged
21 DDD	1.50014	1.45242	0.010	3.18068	15.00000	Averaged
22 Endosulfan II	1.59040	1.44750	0.010	8.98549	15.00000	Averaged
23 DDT	1.58418	1.45333	0.010	8.26009	15.00000	Averaged
24 Endrin Aldehyde	1.25367	1.19121	0.010	4.98207	15.00000	Averaged
25 Endosulfan Sulfate	1.40265	1.26404	0.010	9.88242	15.00000	Averaged
26 Methoxychlor	0.58781	0.53210	0.010	9.47788	15.00000	Averaged
169 Mirex	1.01591	0.93895	0.010	7.57535	15.00000	Averaged
27 Endrin Ketone	1.57764	1.48804	0.010	5.67888	15.00000	Averaged
\$ 28 DCB	1.22197	1.13509	0.010	7.10993	15.00000	Averaged

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	5.88734
Maximun Average %D/Drift =	15.00000
* Passed Average %D/Drift Test.	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071404.d
Lab Smp Id: 1685-135A-0.6Client Smp ID: CCV
Inj Date : 14-JUL-2009 19:02
Operator : rnInst ID: gcp.i
Smp Info : 1685-135A-0.6
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD
Cal Date : 19-MAY-2009 20:37Cal File: P051912.d
Als bottle: 1Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.011	6.011	(0.352)	21519041008	1.20000	1.119
8 a-BHC	7.000	7.000	(0.410)	16100914430	0.60000	0.5821
9 g-BHC	7.611	7.611	(0.446)	14811723145	0.60000	0.5754
10 b-BHC	7.755	7.755	(0.454)	6005005300	0.60000	0.5662
11 d-BHC	8.288	8.288	(0.485)	12353820029	0.60000	0.5169
12 Heptachlor	8.400	8.400	(0.492)	13531206179	0.60000	0.5772
13 Aldrin	9.005	9.005	(0.527)	13305822874	0.60000	0.5826
14 Heptachlor Epoxide	10.016	10.016	(0.586)	11349834724	0.60000	0.5770
15 g-Chlordane	10.330	10.330	(0.605)	11993682179	0.60000	0.5786
16 a-Chlordane	10.570	10.570	(0.619)	11281505414	0.60000	0.5763
17 Endosulfan I	10.667	10.667	(0.625)	9922887689	0.60000	0.5622
18 DDE	10.838	10.838	(0.635)	10896156073	0.60000	0.5805
19 Dieldrin	11.102	11.102	(0.650)	11088794492	0.60000	0.5758
20 Endrin	11.572	11.572	(0.678)	9690782118	0.60000	0.5679
21 DDD	11.729	11.729	(0.687)	8649468879	0.60000	0.5809
22 Endosulfan II	11.888	11.888	(0.696)	8620126435	0.60000	0.5461
23 DDT	12.184	12.184	(0.713)	8654863232	0.60000	0.5504
24 Endrin Aldehyde	12.377	12.377	(0.725)	7093892543	0.60000	0.5701
25 Endosulfan Sulfate	12.768	12.768	(0.748)	7527595658	0.60000	0.5407
26 Methoxychlor	13.136	13.136	(0.769)	31687694142	6.00000	5.431
169 Mirex	13.454	13.454	(0.788)	5591641949	0.60000	0.5545

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.506	13.506	(0.791)	8861598355	0.60000	0.5659
\$ 28 DCB	15.404	15.404	(0.902)	13519327325	1.20000	1.115
* 29 Decachlorodiphenyl Ether	17.076	17.076	(1.000)	19850667168	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071404.d

Calibration Time: 19:02

Lab Smp Id: 1685-135A-0.6

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19850667168	9925333584	39701334336	19850667168	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.08	16.58	17.58	17.08	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/gcp.i/14Jul2009.b/P071404.d

Date : 14-JUL-2009 19:02

Client ID: CCV

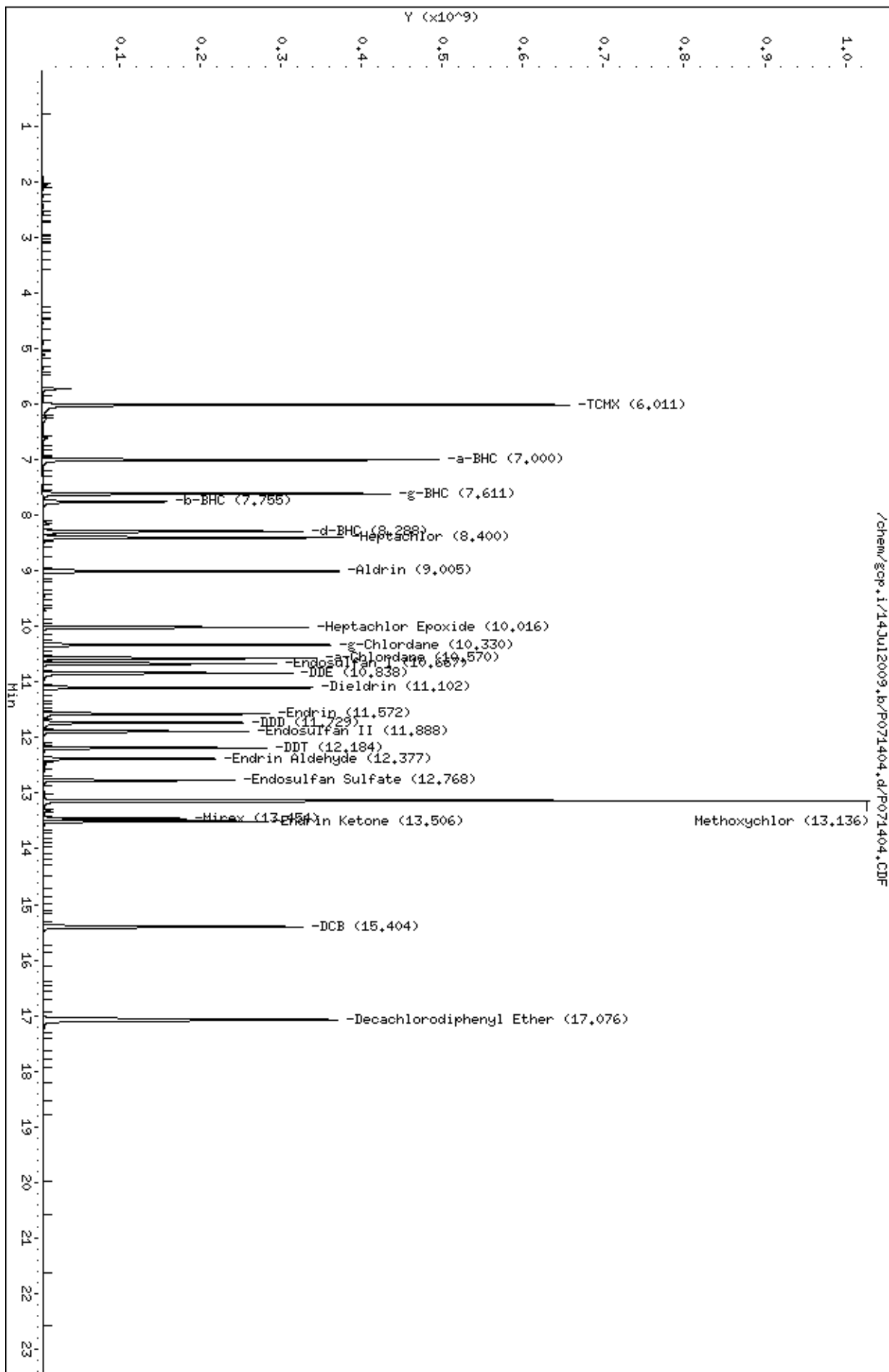
Sample Info: 1685-1350-0.6

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i

Injection Date: 14-JUL-2009 19:02

Lab File ID: P071404b.d

Init. Cal. Date(s): 19-MAY-2009 19-MAY-2009

Analysis Type: AIR

Init. Cal. Times: 17:30 20:37

Lab Sample ID: 1685-135A-0.6

Quant Type: ISTD

Method: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF0.600	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
\$ 2 TCMX	1.57624	1.62037	0.010	-2.79938	15.00000	Averaged
8 a-BHC	2.15278	2.22099	0.010	-3.16833	15.00000	Averaged
9 g-BHC	2.01104	2.05033	0.010	-1.95379	15.00000	Averaged
10 b-BHC	0.80831	0.81476	0.010	-0.79839	15.00000	Averaged
11 d-BHC	1.89263	1.67513	0.010	11.49197	15.00000	Averaged
12 Heptachlor	1.85582	1.81600	0.010	2.14607	15.00000	Averaged
13 Aldrin	1.79703	1.85332	0.010	-3.13274	15.00000	Averaged
14 Heptachlor Epoxide	1.59111	1.61482	0.010	-1.49035	15.00000	Averaged
15 g-Chlordane	1.68041	1.71565	0.010	-2.09690	15.00000	Averaged
16 a-Chlordane	1.61821	1.64416	0.010	-1.60376	15.00000	Averaged
18 Endosulfan I	1.50833	1.47974	0.010	1.89597	15.00000	Averaged
17 DDE	1.48879	1.52183	0.010	-2.21907	15.00000	Averaged
19 Dieldrin	1.62685	1.59755	0.010	1.80059	15.00000	Averaged
20 Endrin	1.44313	1.38403	0.010	4.09575	15.00000	Averaged
21 DDD	1.27947	1.18360	0.010	7.49288	15.00000	Averaged
22 Endosulfan II	1.36886	1.26976	0.010	7.23959	15.00000	Averaged
23 DDT	1.41489	1.31083	0.010	7.35449	15.00000	Averaged
24 Endrin Aldehyde	1.14935	1.08725	0.010	5.40340	15.00000	Averaged
26 Endosulfan Sulfate	1.26084	1.12556	0.010	10.72978	15.00000	Averaged
25 Methoxychlor	0.63055	0.50783	0.010	19.46336	15.00000	Averaged<-
168 Mirex	1.03015	1.00660	0.010	2.28618	15.00000	Averaged
27 Endrin Ketone	1.57006	1.46762	0.010	6.52463	15.00000	Averaged
\$ 28 DCB	1.25882	1.19050	0.010	5.42696	15.00000	Averaged

Average %D / Drift Results.	
=====	
Calculated Average %D/Drift =	4.89628
Maximun Average %D/Drift =	15.00000
* Passed Average %D/Drift Test.	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071404b.d
Lab Smp Id: 1685-135A-0.6Client Smp ID: CCV
Inj Date : 14-JUL-2009 19:02
Operator : rnInst ID: gcp.i
Smp Info : 1685-135A-0.6
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d
Als bottle: 1Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
					(ug)	(ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.831	5.831	(0.371)	8181943415	1.20000	1.234
8 a-BHC	6.704	6.704	(0.427)	5607384208	0.60000	0.6190
9 g-BHC	7.225	7.225	(0.460)	5176520225	0.60000	0.6117
10 b-BHC	7.368	7.368	(0.469)	2057051202	0.60000	0.6048
11 d-BHC	7.682	7.682	(0.489)	4229232044	0.60000	0.5310
12 Heptachlor	8.045	8.045	(0.512)	4584886496	0.60000	0.5871
13 Aldrin	8.592	8.592	(0.547)	4679127360	0.60000	0.6188
14 Heptachlor Epoxide	9.674	9.674	(0.616)	4076967166	0.60000	0.6089
15 g-Chlordane	9.885	9.885	(0.630)	4331526960	0.60000	0.6126
16 a-Chlordane	10.105	10.105	(0.644)	4151040329	0.60000	0.6096
18 Endosulfan I	10.337	10.337	(0.658)	3735923354	0.60000	0.5886
17 DDE	10.222	10.222	(0.651)	3842190349	0.60000	0.6133
19 Dieldrin	10.719	10.719	(0.683)	4033377190	0.60000	0.5892
20 Endrin	11.082	11.082	(0.706)	3494283951	0.60000	0.5754
21 DDD	11.166	11.166	(0.711)	2988271675	0.60000	0.5550
22 Endosulfan II	11.423	11.423	(0.728)	3205788929	0.60000	0.5566
23 DDT	11.580	11.580	(0.738)	3309475682	0.60000	0.5559
24 Endrin Aldehyde	12.033	12.033	(0.766)	2744994227	0.60000	0.5676
26 Endosulfan Sulfate	12.646	12.646	(0.805)	2841717472	0.60000	0.5356
25 Methoxychlor	12.262	12.262	(0.781)	12821172070	6.00000	4.832
168 Mirex	12.508	12.508	(0.797)	2541376878	0.60000	0.5863

AMOUNTS						
Compounds	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.034	13.034	(0.830)	3705322048	0.60000	0.5608
\$ 28 DCB	14.381	14.381	(0.916)	6011376518	1.20000	1.135
* 29 Decachlorodiphenyl Ether	15.701	15.701	(1.000)	8415739331	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071404b.d

Calibration Time: 19:02

Lab Smp Id: 1685-135A-0.6

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8415739331	4207869665	16831478662	8415739331	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.70	15.20	16.20	15.70	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/gcp.i/14Jul2009.b/P071404b.d

Date : 14-JUL-2009 19:02

Client ID: CCV

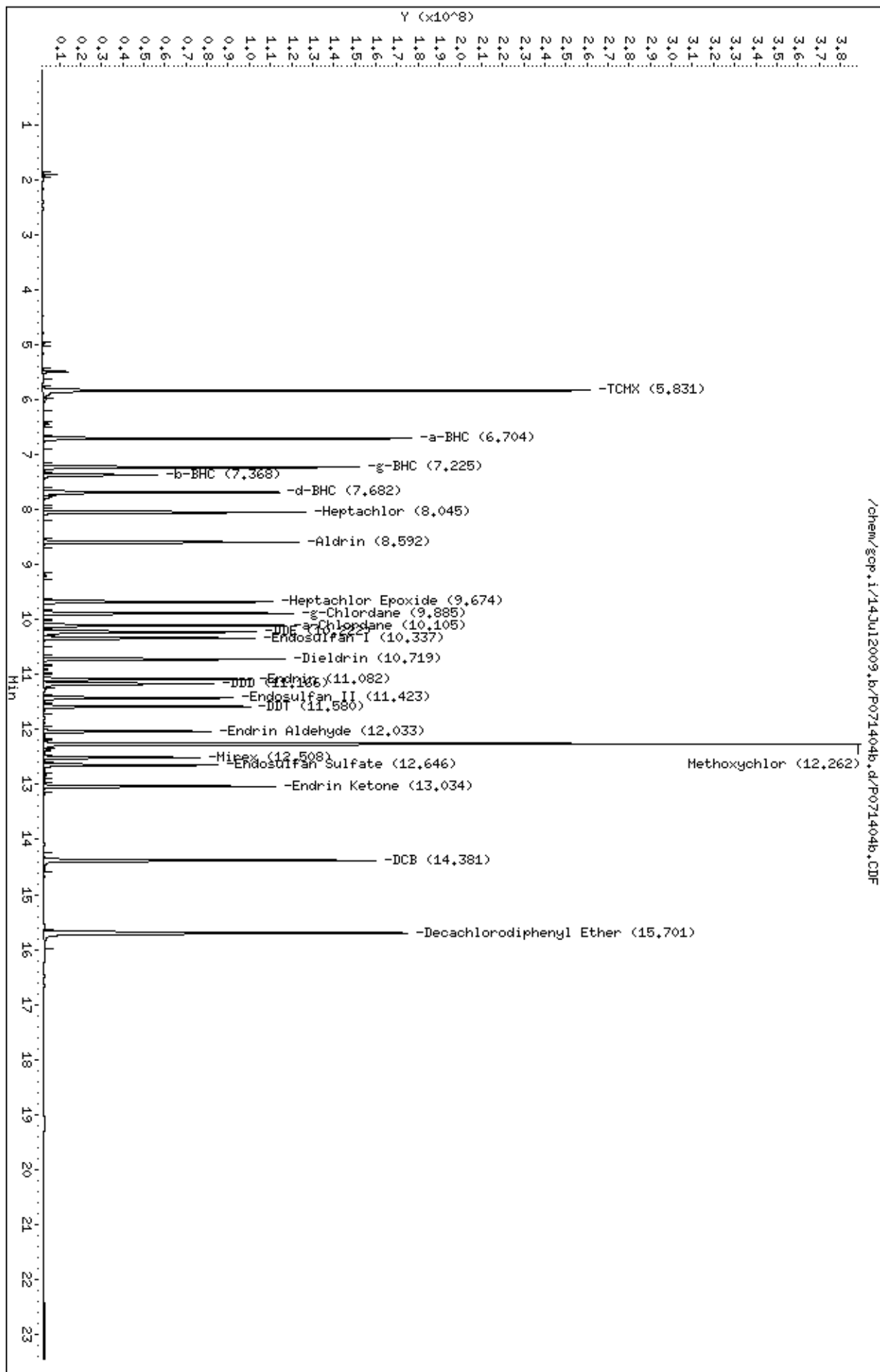
Sample Info: 1685-135A-0.6

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 14Jul2009

Lab Smp Id: 1685-137A-5 PCBClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type: VOALevel: LOW

Data Type: GC DATAOperator: rn

Misc Info: None

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) uG	Q
9999-9999-098---	pcb1016/1242	4.52	
-----	pcb1016/1242-1	4.78	
-----	pcb1016/1242-2	4.55	
-----	pcb1016/1242-3	4.27	
-----	pcb1016/1242-4	4.60	
11096-82-5-----	pcb1260	4.34	
-----	pcb1260-1	4.38	
-----	pcb1260-2	4.39	
-----	pcb1260-3	4.28	
-----	pcb1260-4	4.30	
=====		=====	=====
877-09-8-----	TCMX	0.975	
2051-24-3-----	DCB	0.880	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071420.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 15-JUL-2009 02:27
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		6.014	6.009	(0.352)	15228730223	0.97525	0.975
M 3 pcb1016/1242					10260887625	4.52356	4.52
4 pcb1016/1242-1		7.423	7.418	(0.435)	1745854146	4.77892	4.78
5 pcb1016/1242-2		8.220	8.217	(0.481)	4172809193	4.54660	4.55
6 pcb1016/1242-3		8.457	8.453	(0.495)	2437576287	4.27083	4.27
7 pcb1016/1242-4		9.289	9.285	(0.544)	1904647998	4.59547	4.60
M 8 pcb1260					15926926700	4.33720	4.34
9 pcb1260-1		11.353	11.349	(0.665)	3334578131	4.38560	4.38
10 pcb1260-2		11.661	11.657	(0.683)	4074236335	4.39104	4.39
11 pcb1260-3		12.733	12.729	(0.745)	2898367198	4.27731	4.28
12 pcb1260-4		13.070	13.067	(0.765)	5619745036	4.30185	4.30
\$ 38 DCB		15.408	15.403	(0.902)	9230391071	0.87997	0.880
* 39 Decachlorodiphenyl Ether		17.081	17.074	(1.000)	20028953138	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071420.d

Calibration Time: 18:36

Lab Smp Id: 1685-137A-5 PCB

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	18648773486	9324386743	37297546971	20028953138	7.40

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	17.07	16.57	17.57	17.08	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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction: VOA
Lab Smp Id: 1685-137A-5 PCB	Client Smp ID: CCV
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: LCS
SpikeList File: CCV10.spk	Quant Type: ISTD
Sublist File: CCV.sub	
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m	
Misc Info: None	

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	1.00	0.975	97.53	85-115
M	3 pcb1016/1242	5.00	4.52	90.47	85-115
	4 pcb1016/1242-1	5.00	4.78	95.58	85-115
	5 pcb1016/1242-2	5.00	4.55	90.93	85-115
	6 pcb1016/1242-3	5.00	4.27	85.42	85-115
	7 pcb1016/1242-4	5.00	4.60	91.91	85-115
M	8 pcb1260	5.00	4.34	86.74	85-115
	9 pcb1260-1	5.00	4.38	87.71	85-115
	10 pcb1260-2	5.00	4.39	87.82	85-115
	11 pcb1260-3	5.00	4.28	85.55	85-115
	12 pcb1260-4	5.00	4.30	86.04	85-115
\$	38 DCB	1.00	0.880	88.00	85-115

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	0.975	97.53	60-120
\$	38 DCB	0.600	0.880	88.00	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071420.d

Date : 15-JUL-2009 02:27

Client ID: CCV

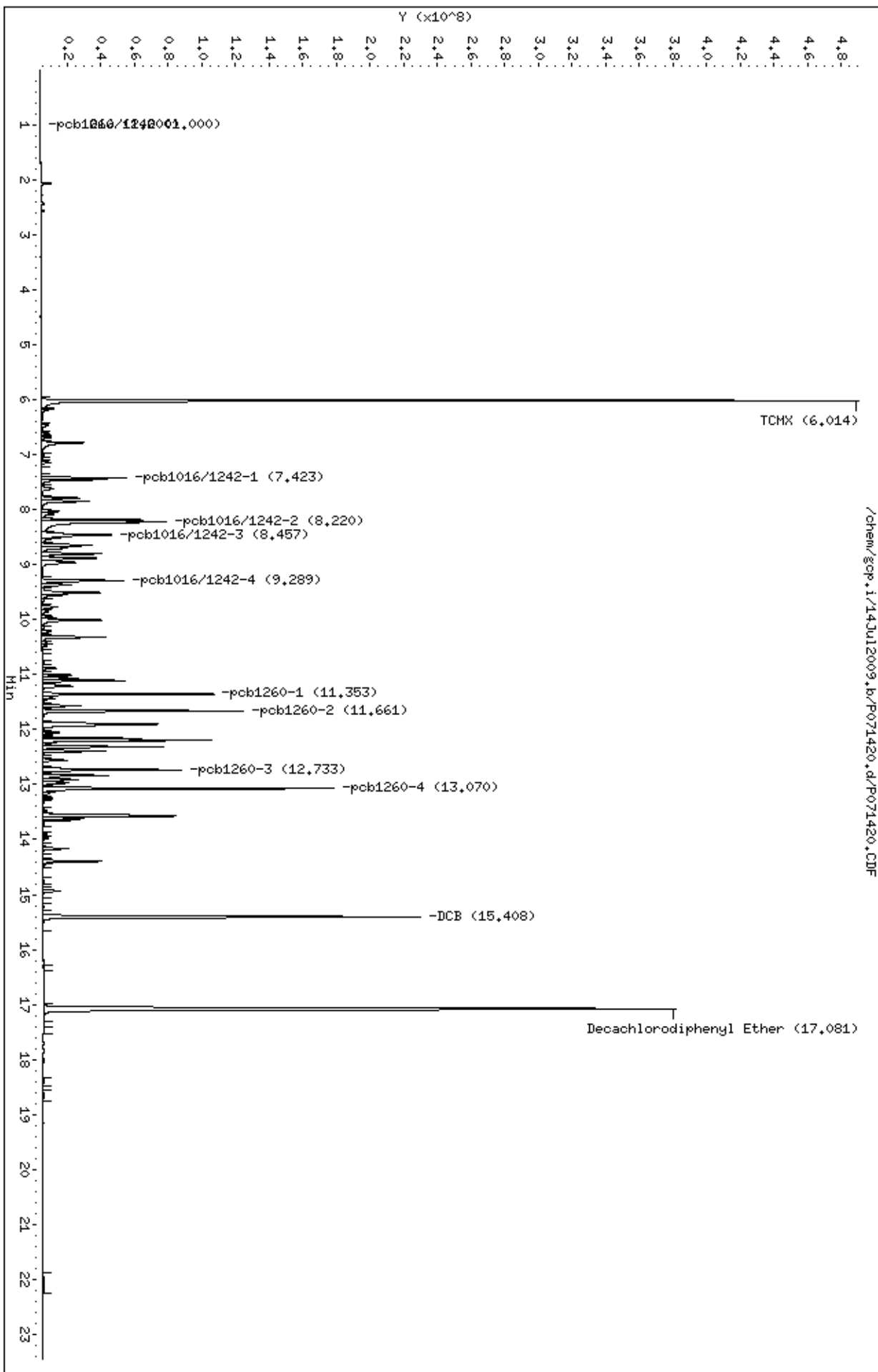
Sample Info: 1685-137A-5 PCB

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 14Jul2009

Lab Smp Id: 1685-137A-5 PCBClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type: VOALevel: LOW

Data Type: GC DATAOperator: rn

Misc Info: None

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) uG	Q
x9999-9999-098--	pcb1016/1242	4.76	
-----	pcb1016/1242-1	4.70	
-----	pcb1016/1242-2	4.87	
-----	pcb1016/1242-3	4.70	
-----	pcb1016/1242-4	4.69	
x11096-82-5----	pcb1260	4.51	
-----	pcb1260-1	4.57	
-----	pcb1260-2	4.59	
-----	pcb1260-3	4.41	
-----	pcb1260-4	4.46	
=====		=====	=====
x877-09-8-----	TCMX	0.944	
x2051-24-3-----	DCB	0.873	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071420b.d
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Inj Date : 15-JUL-2009 02:27
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137A-5 PCB
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 14-Jul-2009 15:38 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

		CONCENTRATIONS					
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(uG)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.835	5.829	(0.371)	6104456290	0.94393	0.944
M 3 pcb1016/1242					4200354881	4.75570	4.76
4 pcb1016/1242-1		6.928	6.922	(0.441)	1070962430	4.70453	4.70
5 pcb1016/1242-2		7.707	7.702	(0.491)	1416652453	4.86732	4.87
6 pcb1016/1242-3		7.931	7.925	(0.505)	990304239	4.70399	4.70
7 pcb1016/1242-4		8.640	8.632	(0.550)	722435756	4.69109	4.69
M 8 pcb1260					7365410228	4.51089	4.51
9 pcb1260-1		10.697	10.691	(0.681)	1452380868	4.56731	4.57
10 pcb1260-2		11.120	11.114	(0.708)	2217184048	4.59180	4.59
11 pcb1260-3		12.064	12.058	(0.768)	1170805003	4.40883	4.41
12 pcb1260-4		12.493	12.487	(0.795)	2525040307	4.45810	4.46
\$ 38 DCB		14.385	14.380	(0.916)	4398891614	0.87313	0.873
* 39 Decachlorodiphenyl Ether		15.706	15.699	(1.000)	9290193941	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071420b.d

Calibration Time: 18:36

Lab Smp Id: 1685-137A-5 PCB

Client Smp ID: CCV

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	8100028078	4050014039	16200056156	9290193941	14.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Decachlorodipheny	15.70	15.20	16.20	15.71	0.05

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: 14Jul2009
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1685-137A-5 PCB Client Smp ID: CCV
Level: LOW Operator: rn
Data Type: GC DATA SampleType: LCS
SpikeList File: CCV10.spk Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	1.00	0.944	94.39	85-115
M	3 pcb1016/1242	5.00	4.76	95.11	85-115
	4 pcb1016/1242-1	5.00	4.70	94.09	85-115
	5 pcb1016/1242-2	5.00	4.87	97.35	85-115
	6 pcb1016/1242-3	5.00	4.70	94.08	85-115
	7 pcb1016/1242-4	5.00	4.69	93.82	85-115
M	8 pcb1260	5.00	4.51	90.22	85-115
	9 pcb1260-1	5.00	4.57	91.35	85-115
	10 pcb1260-2	5.00	4.59	91.84	85-115
	11 pcb1260-3	5.00	4.41	88.18	85-115
	12 pcb1260-4	5.00	4.46	89.16	85-115
\$	38 DCB	1.00	0.873	87.31	85-115

SURROGATE COMPOUND		CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
\$	2 TCMX	0.600	0.944	94.39	60-120
\$	38 DCB	0.600	0.873	87.31	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071420b.d

Date : 15-JUL-2009 02:27

Client ID: CCV

Sample Info: 1685-137A-5 PCB

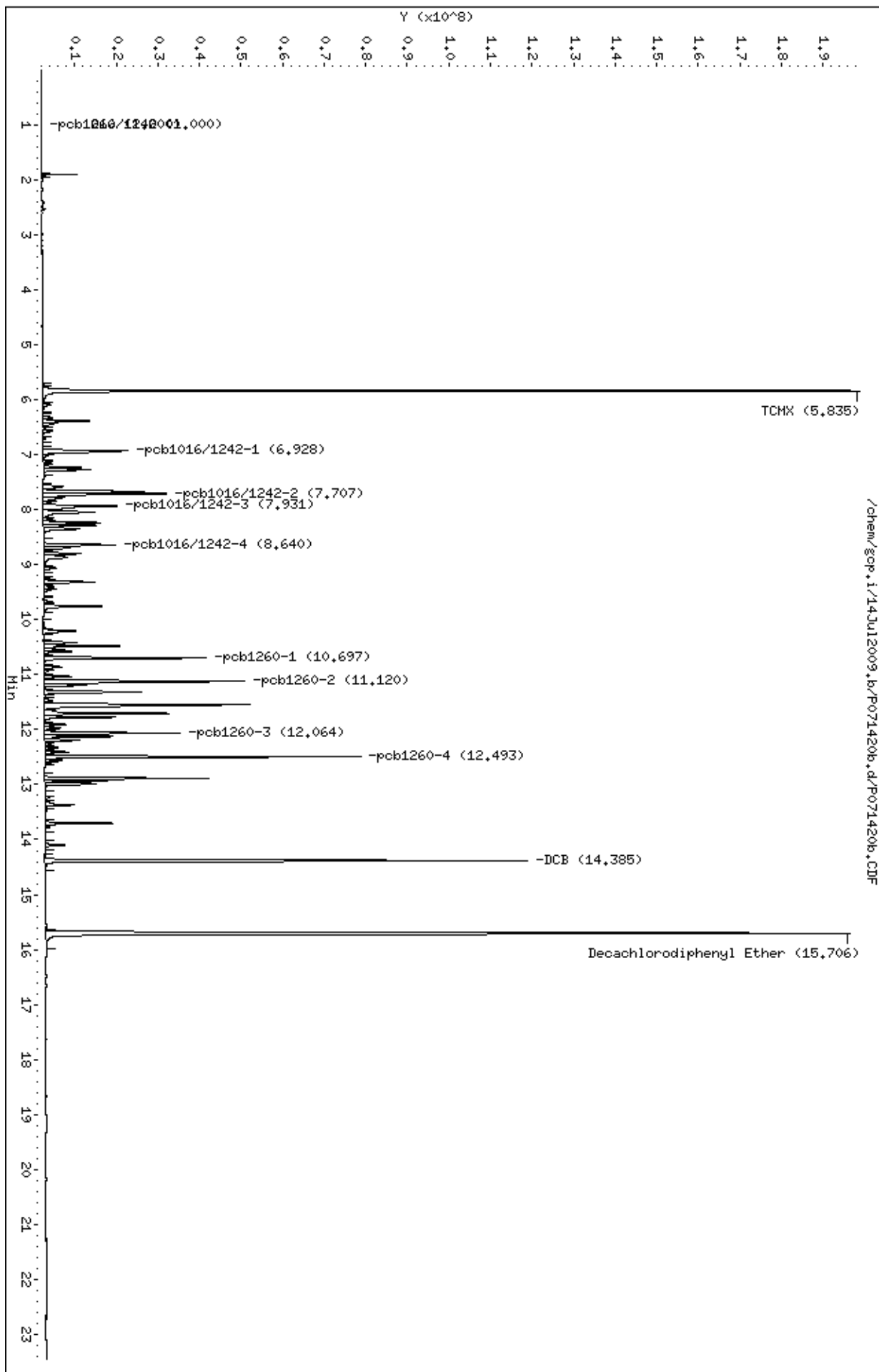
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 14Jul2009

Lab Smp Id: 1685-135A-0.6 PestClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type:Level: LOW

Data Type: GC DATAOperator: rn

Misc Info: None

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/KG) ug	Q
319-84-6-----a-BHC		0.5923	E
58-89-9-----g-BHC		0.5844	
319-85-7-----b-BHC		0.5627	E
319-86-8-----d-BHC		0.5771	E
76-44-8-----Heptachlor		0.5760	
309-00-2-----Aldrin		0.5731	
1024-57-3-----Heptachlor Epoxide		0.5659	E
5103-74-2-----g-Chlordane		0.5624	E
5103-71-9-----a-Chlordane		0.5605	E
959-98-8-----Endosulfan I		0.5469	E
72-55-9-----DDE		0.5682	E
60-57-1-----Dieldrin		0.5656	
72-20-8-----Endrin		0.5565	
72-54-8-----DDD		0.5832	E
33213-65-9-----Endosulfan II		0.5215	E
50-29-3-----DDT		0.5460	
7421-93-4-----Endrin Aldehyde		0.5587	E
1031-07-8-----Endosulfan Sulfate		0.5581	E
72-43-5-----Methoxychlor		5.669	E
2385-85-5-----Mirex		0.5274	E
53494-70-5-----Endrin Ketone		0.5501	E
=====		=====	=====
877-09-8-----TCMX		1.131	
2051-24-3-----DCB		1.098	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071421.d

Lab Smp Id: 1685-135A-0.6 PestClient Smp ID: CCV

Inj Date : 15-JUL-2009 02:54

Operator : rnInst ID: gcp.i

Smp Info : 1685-135A-0.6 Pest

Misc Info : None

Comment : Front column, Rtx-CLPesticides II

Method : /chem/gcp.i/14Jul2009.b/p0910519.m

Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD

Cal Date : 19-MAY-2009 20:37Cal File: P051912.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound Sublist: pestCCV+mirex.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	REL RT	RESPONSE	(ug)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2	TCMX	6.013	6.011	(0.352)	23706706007	1.13076	1.131
8	a-BHC	7.001	7.000	(0.410)	17868011099	0.59232	0.5923
9	g-BHC	7.613	7.611	(0.446)	16406652039	0.58444	0.5844
10	b-BHC	7.756	7.755	(0.454)	6508988676	0.56273	0.5627
11	d-BHC	8.289	8.288	(0.485)	15041749041	0.57712	0.5771
12	Heptachlor	8.402	8.400	(0.492)	14726067504	0.57600	0.5760
13	Aldrin	9.006	9.005	(0.527)	14273537871	0.57309	0.5731
14	Heptachlor Epoxide	10.017	10.016	(0.587)	12138334992	0.56589	0.5659
15	g-Chlordane	10.331	10.330	(0.605)	12715217335	0.56243	0.5624
16	a-Chlordane	10.571	10.570	(0.619)	11966812348	0.56054	0.5605
17	Endosulfan I	10.669	10.667	(0.625)	10526875436	0.54690	0.5469
18	DDE	10.839	10.838	(0.635)	11631884563	0.56820	0.5682
19	Dieldrin	11.103	11.102	(0.650)	11879096696	0.56562	0.5656
20	Endrin	11.572	11.572	(0.678)	10357441511	0.55654	0.5565
21	DDD	11.729	11.729	(0.687)	9470120897	0.58321	0.5832
22	Endosulfan II	11.889	11.888	(0.696)	8977675096	0.52151	0.5215
23	DDT	12.184	12.184	(0.713)	9361724750	0.54595	0.5460
24	Endrin Aldehyde	12.378	12.377	(0.725)	7581585815	0.55870	0.5587
25	Endosulfan Sulfate	12.769	12.768	(0.748)	8473315043	0.55809	0.5581
26	Methoxychlor	13.136	13.136	(0.769)	36068008422	5.66874	5.669
169	Mirex	13.455	13.454	(0.788)	5799450933	0.52739	0.5274

Compounds	CONCENTRATIONS					
	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.507	13.506	(0.791)	9393931733	0.55010	0.5501
\$ 28 DCB	15.406	15.404	(0.902)	14520309772	1.09779	1.098
* 29 Decachlorodiphenyl Ether	17.078	17.076	(1.000)	21648402792	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071421.d

Calibration Time: 19:02

Lab Smp Id: 1685-135A-0.6 Pest

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19850667168	9925333584	39701334336	21648402792	9.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.08	16.58	17.58	17.08	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: 14Jul2009
Sample Matrix: GAS Fraction:
Lab Smp Id: 1685-135A-0.6 Pest Client Smp ID: CCV
Level: LOW Operator: rn
Data Type: GC DATA SampleType: LCS
SpikeList File: CCV-1.spk Quant Type: ISTD
Sublist File: pestCCV+mirex.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.200	1.131	94.23	85-115
8 a-BHC	0.6000	0.5923	98.72	85-115
10 b-BHC	0.6000	0.5627	93.79	85-115
9 g-BHC	0.6000	0.5844	97.41	85-115
11 d-BHC	0.6000	0.5771	96.19	85-115
12 Heptachlor	0.6000	0.5760	96.00	85-115
13 Aldrin	0.6000	0.5731	95.51	85-115
14 Heptachlor Epoxide	0.6000	0.5659	94.32	85-115
17 Endosulfan I	0.6000	0.5469	91.15	85-115
18 DDE	0.6000	0.5682	94.70	85-115
19 Dieldrin	0.6000	0.5656	94.27	85-115
20 Endrin	0.6000	0.5565	92.76	85-115
22 Endosulfan II	0.6000	0.5215	86.92	85-115
21 DDD	0.6000	0.5832	97.20	85-115
24 Endrin Aldehyde	0.6000	0.5587	93.12	85-115
25 Endosulfan Sulfate	0.6000	0.5581	93.02	85-115
23 DDT	0.6000	0.5460	90.99	85-115
27 Endrin Ketone	0.6000	0.5501	91.68	85-115
16 a-Chlordane	0.6000	0.5605	93.42	85-115
15 g-Chlordane	0.6000	0.5624	93.74	85-115
26 Methoxychlor	6.000	5.669	94.48	85-115
169 Mirex	0.6000	0.5274	87.90	85-115
\$ 28 DCB	1.200	1.098	91.48	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	1.131	94.23	60-120
\$ 28 DCB	0.6000	1.098	91.48	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071421.d

Date : 15-JUL-2009 02:54

Client ID: CCV

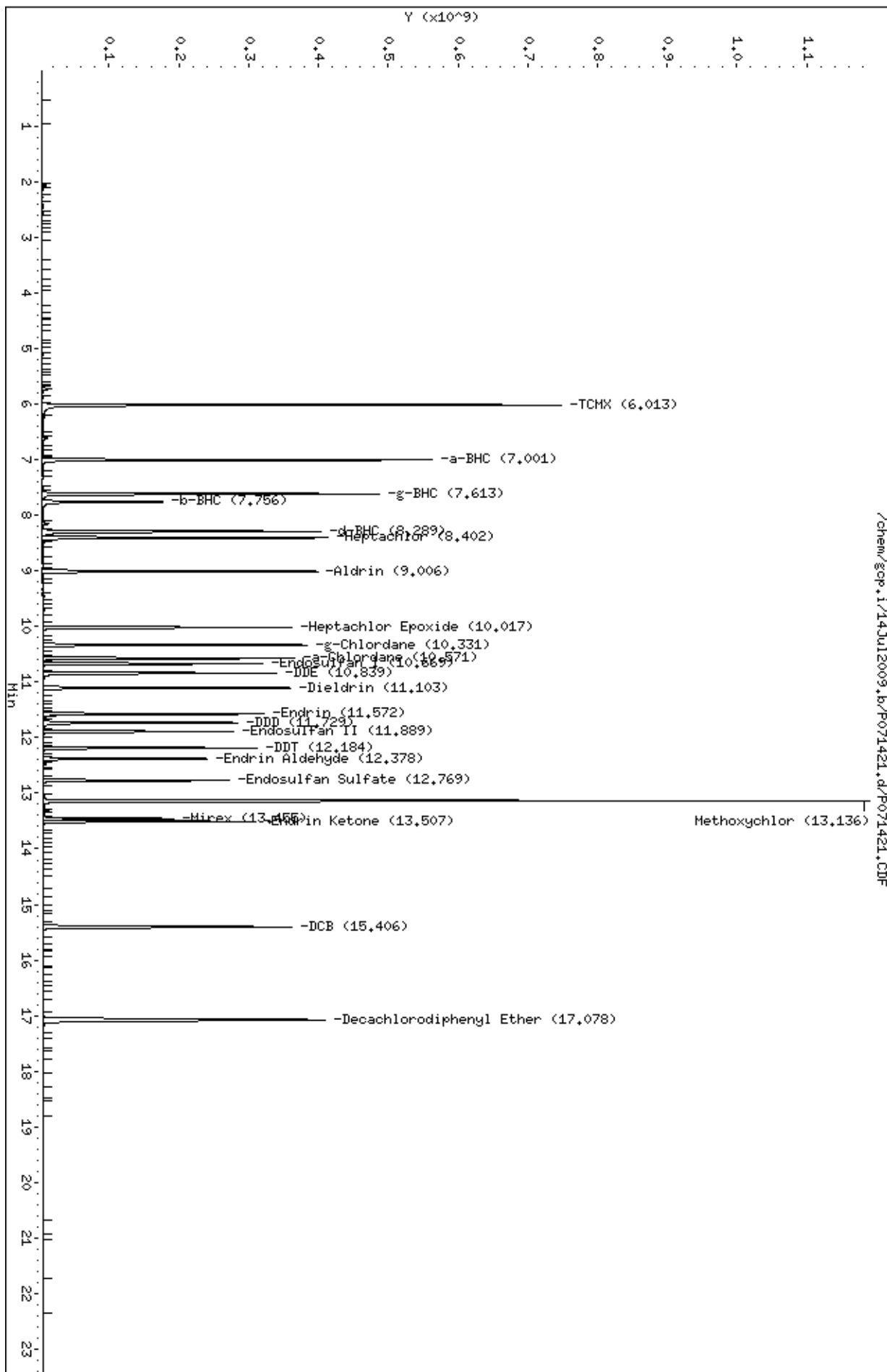
Sample Info: 1685-1350-0.6 Pest

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 14Jul2009

Lab Smp Id: 1685-135A-0.6 PestClient Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ISTD

Analysis Type:Level: LOW

Data Type: GC DATAOperator: rn

Misc Info: None

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/KG) ug	Q
x319-84-6-----a-BHC		0.6180	E
x58-89-9-----g-BHC		0.6101	
x319-85-7-----b-BHC		0.6011	E
x319-86-8-----d-BHC		0.5903	E
x76-44-8-----Heptachlor		0.5856	
x309-00-2-----Aldrin		0.5982	
x1024-57-3-----Heptachlor Epoxide		0.5887	E
x5103-74-2-----g-Chlordane		0.5907	E
x5103-71-9-----a-Chlordane		0.5864	E
x959-98-8-----Endosulfan I		0.5640	E
x72-55-9-----DDE		0.6114	E
x60-57-1-----Dieldrin		0.5829	
x72-20-8-----Endrin		0.5841	
x72-54-8-----DDD		0.5922	E
x33213-65-9-----Endosulfan II		0.5388	E
x50-29-3-----DDT		0.5614	
x7421-93-4-----Endrin Aldehyde		0.5541	E
x1031-07-8-----Endosulfan Sulfate		0.5486	E
x72-43-5-----Methoxychlor		5.205	E
X2385-85-5-----Mirex		0.5441	E
x53494-70-5-----Endrin Ketone		0.5474	E
=====		=====	=====
x877-09-8-----TCMX		1.211	
x2051-24-3-----DCB		1.101	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071421b.d
Lab Smp Id: 1685-135A-0.6 PestClient Smp ID: CCV
Inj Date : 15-JUL-2009 02:54
Operator : rnInst ID: gcp.i
Smp Info : 1685-135A-0.6 Pest
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD
Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d
Als bottle: 1QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP GenieCompound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	5.833	5.831	(0.371)	9609596224	1.21131	1.211
8 a-BHC	6.706	6.704	(0.427)	6696188304	0.61802	0.6180
9 g-BHC	7.228	7.225	(0.460)	6175660470	0.61015	0.6101
10 b-BHC	7.370	7.368	(0.469)	2445397354	0.60110	0.6011
11 d-BHC	7.684	7.682	(0.489)	5623163655	0.59032	0.5903
12 Heptachlor	8.048	8.045	(0.512)	5469953813	0.58563	0.5856
13 Aldrin	8.594	8.592	(0.547)	5410545888	0.59822	0.5982
14 Heptachlor Epoxide	9.676	9.674	(0.616)	4714631805	0.58874	0.5887
15 g-Chlordane	9.887	9.885	(0.630)	4995502086	0.59066	0.5907
16 a-Chlordane	10.107	10.105	(0.644)	4775779298	0.58639	0.5864
18 Endosulfan I	10.338	10.337	(0.658)	4281431689	0.56398	0.5640
17 DDE	10.224	10.222	(0.651)	4581329974	0.61141	0.6114
19 Dieldrin	10.721	10.719	(0.683)	4772519384	0.58287	0.5829
20 Endrin	11.085	11.082	(0.706)	4242231921	0.58406	0.5841
21 DDD	11.167	11.166	(0.711)	3813591747	0.59221	0.5922
22 Endosulfan II	11.425	11.423	(0.727)	3712396056	0.53885	0.5388
23 DDT	11.582	11.580	(0.738)	3998123444	0.56145	0.5614
24 Endrin Aldehyde	12.035	12.033	(0.766)	3205373450	0.55411	0.5541
26 Endosulfan Sulfate	12.648	12.646	(0.805)	3481413751	0.54862	0.5486
25 Methoxychlor	12.264	12.262	(0.781)	16518118447	5.20491	5.205
168 Mirex	12.511	12.508	(0.797)	2820941888	0.54409	0.5441

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN	FINAL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
27 Endrin Ketone	13.036	13.034	(0.830)	4325391520	0.54737	0.5474
\$ 28 DCB	14.384	14.381	(0.916)	6976578891	1.10117	1.101
* 29 Decachlorodiphenyl Ether	15.704	15.701	(1.000)	10065988660	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071421b.d

Calibration Time: 19:02

Lab Smp Id: 1685-135A-0.6 Pest

Client Smp ID: CCV

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	8415739331	4207869665	16831478662	10065988660	19.61

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	15.70	15.20	16.20	15.70	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: 14Jul2009
Sample Matrix: GAS Fraction:
Lab Smp Id: 1685-135A-0.6 Pest Client Smp ID: CCV
Level: LOW Operator: rn
Data Type: GC DATA SampleType: LCS
SpikeList File: CCV-1.spk Quant Type: ISTD
Sublist File: pestCCV+mirex.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.200	1.211	100.94	85-115
8 a-BHC	0.6000	0.6180	103.00	85-115
10 b-BHC	0.6000	0.6011	100.18	85-115
9 g-BHC	0.6000	0.6101	101.69	85-115
11 d-BHC	0.6000	0.5903	98.39	85-115
12 Heptachlor	0.6000	0.5856	97.60	85-115
13 Aldrin	0.6000	0.5982	99.70	85-115
14 Heptachlor Epoxide	0.6000	0.5887	98.12	85-115
18 Endosulfan I	0.6000	0.5640	94.00	85-115
17 DDE	0.6000	0.6114	101.90	85-115
19 Dieldrin	0.6000	0.5829	97.15	85-115
20 Endrin	0.6000	0.5841	97.34	85-115
22 Endosulfan II	0.6000	0.5388	89.81	85-115
21 DDD	0.6000	0.5922	98.70	85-115
24 Endrin Aldehyde	0.6000	0.5541	92.35	85-115
26 Endosulfan Sulfate	0.6000	0.5486	91.44	85-115
23 DDT	0.6000	0.5614	93.57	85-115
27 Endrin Ketone	0.6000	0.5474	91.23	85-115
16 a-Chlordane	0.6000	0.5864	97.73	85-115
15 g-Chlordane	0.6000	0.5907	98.44	85-115
25 Methoxychlor	6.000	5.205	86.75	85-115
168 Mirex	0.6000	0.5441	90.68	85-115
\$ 28 DCB	1.200	1.101	91.76	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	0.6000	1.211	100.94	60-120
\$ 28 DCB	0.6000	1.101	91.76	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071421b.d

Date : 15-JUL-2009 02:54

Client ID: CCV

Sample Info: 1685-1350-0.6 Pest

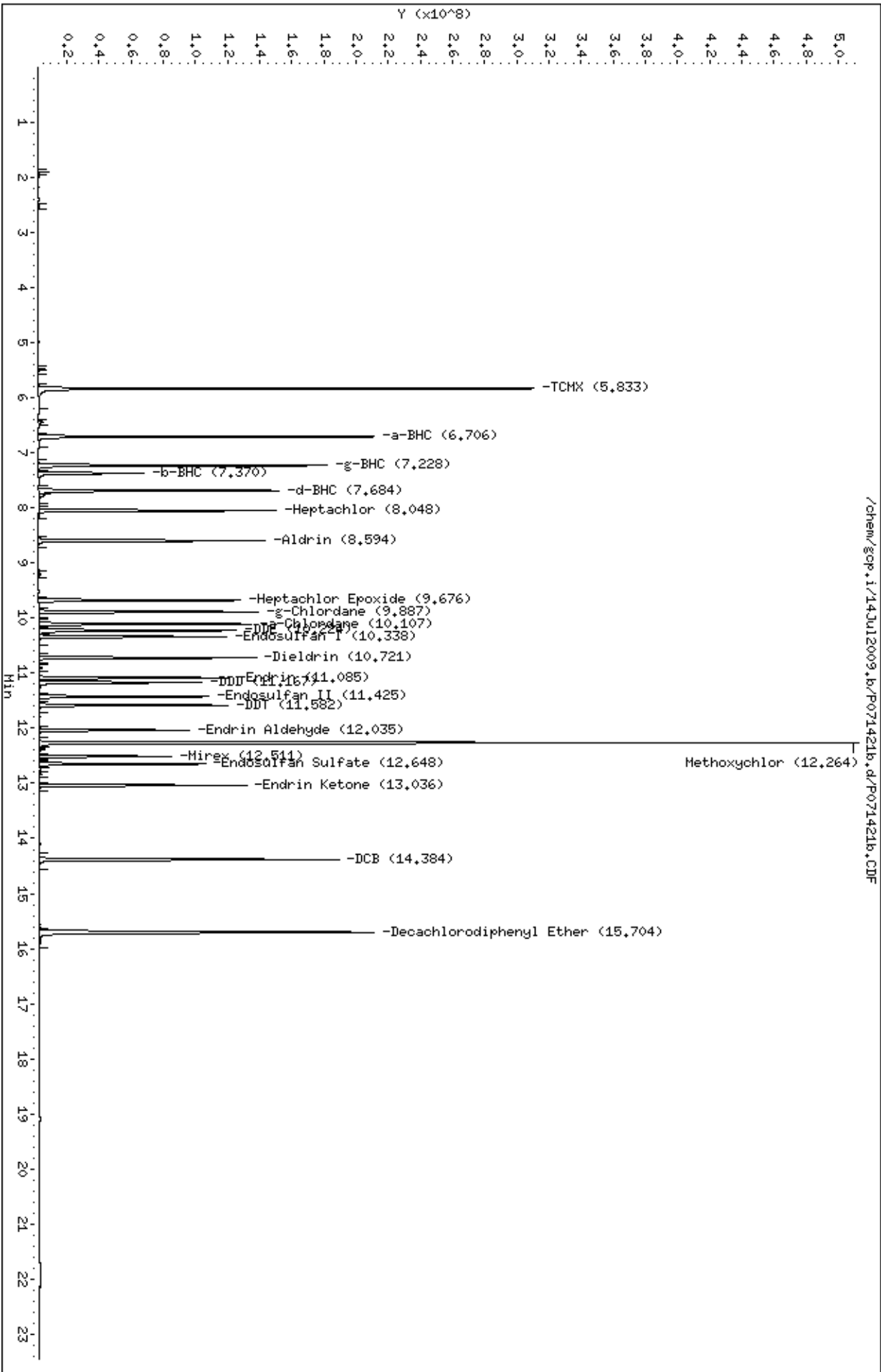
Page 1

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Client Sample ID: LCS

Lab ID#: 0907047A-06A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	P071419	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/14/09 07:00 PM
		Date of Extraction: 7/6/09

Compound	%Recovery
Aldrin	83
alpha-BHC	87
beta-BHC	82
delta-BHC	85
gamma-BHC (Lindane)	85
alpha-Chlordane	85
gamma-Chlordane	85
4,4'-DDD	86
4,4'-DDE	82
4,4'-DDT	75
Dieldrin	85
Endosulfan I	65
Endosulfan II	83
Endosulfan Sulfate	80
Endrin	85
Endrin Aldehyde	60
Endrin Ketone	77
Heptachlor	88
Heptachlor Epoxide	88
4,4'-Methoxychlor	91
Toxaphene	Not Spiked
Aroclor 1016/1242	73
Aroclor-1221	Not Spiked
Aroclor-1232	Not Spiked
Aroclor-1248	Not Spiked
Aroclor-1254	Not Spiked
Aroclor-1260	80

Air Sample Volume(L): 70000

Aroclors are reported from file p071407.d, analyzed on 07/14/2009 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	76	60-120
Decachlorobiphenyl	69	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 14Jul2009
Sample Matrix: GAS	Fraction:
Lab Smp Id: 0907047A pest	Client Smp ID: LCS
Level: LOW	Operator: rn
Data Type: GC DATA	SampleType: LCS
SpikeList File: 1050-166.spk	Quant Type: ISTD
Sublist File: LCSfull.sub	
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m	
Misc Info: None	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3495	87.38	65-125
10 b-BHC	0.4000	0.3274	81.86	65-125
9 g-BHC	0.4000	0.3397	84.94	65-125
11 d-BHC	0.4000	0.3406	85.16	65-125
12 Heptachlor	0.4000	0.3528	88.21	65-125
13 Aldrin	0.4000	0.3338	83.45	65-125
14 Heptachlor Epoxide	0.4000	0.3537	88.43	65-125
17 Endosulfan I	0.4000	0.2586	64.65*	65-125
18 DDE	0.8000	0.6592	82.40	65-125
19 Dieldrin	0.8000	0.6811	85.14	65-125
20 Endrin	0.8000	0.6792	84.90	65-125
22 Endosulfan II	0.8000	0.6631	82.89	65-125
21 DDD	0.8000	0.6918	86.47	65-125
24 Endrin Aldehyde	0.8000	0.4801	60.02	20-86
25 Endosulfan Sulfate	0.8000	0.6431	80.39	65-125
23 DDT	0.8000	0.5979	74.74	65-125
27 Endrin Ketone	0.8000	0.6198	77.48	65-125
16 a-Chlordane	0.4000	0.3404	85.10	65-125
15 g-Chlordane	0.4000	0.3384	84.59	65-125
26 Methoxychlor	4.000	3.636	90.89	65-125
169 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.400	1.058	75.61	60-120
\$ 28 DCB	2.200	1.526	69.35	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Jul2009
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0907047A pcb Client Smp ID: LCS
Level: LOW Operator: rn
Data Type: GC DATA SampleType: LCS
SpikeList File: LCS10.spk Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND		CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
M	3 pcb1016/1242	5.00	3.67	73.35	65-125
	4 pcb1016/1242-1	5.00	3.94	78.84	65-125
	5 pcb1016/1242-2	5.00	3.42	68.42	65-125
	6 pcb1016/1242-3	5.00	3.48	69.66	65-125
	7 pcb1016/1242-4	5.00	4.23	84.53	65-125
M	8 pcb1260	5.00	4.00	79.91	65-125
	9 pcb1260-1	5.00	3.85	77.03	65-125
	10 pcb1260-2	5.00	4.00	80.10	65-125
	11 pcb1260-3	5.00	4.05	81.04	65-125
	12 pcb1260-4	5.00	4.04	80.86	65-125

SURROGATE COMPOUND		CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$	2 TCMX	0.600	0.608	101.33	60-120
\$	38 DCB	0.600	0.520	86.70	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071419.d
Lab Smp Id: 0907047A pest
Inj Date : 15-JUL-2009 02:00
Operator : rn
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/p0910519.m
Meth Date : 14-Jul-2009 15:37 lzhang
Cal Date : 19-MAY-2009 20:37
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50
Processing Host: eeyore

Client Smp ID: LCS
Inst ID: gcp.i
Quant Type: ISTD
Cal File: P051912.d
QC Sample: LCS
Compound Sublist: LCSfull.sub

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS				
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 2 TCMX	6.013	6.011	(0.352)	19791417484	1.05855	1.058
8 a-BHC	7.002	7.000	(0.410)	9403113953	0.34953	0.3495
9 g-BHC	7.613	7.611	(0.446)	8505546589	0.33975	0.3397
10 b-BHC	7.757	7.755	(0.454)	3377648412	0.32745	0.3274
11 d-BHC	8.289	8.288	(0.485)	7917510447	0.34064	0.3406
12 Heptachlor	8.402	8.400	(0.492)	8044256174	0.35283	0.3528
13 Aldrin	9.007	9.005	(0.527)	7413714418	0.33378	0.3338
14 Heptachlor Epoxide	10.018	10.016	(0.586)	6766173128	0.35372	0.3537
15 g-Chlordane	10.332	10.330	(0.605)	6821751869	0.33836	0.3384
16 a-Chlordane	10.572	10.570	(0.619)	6480331722	0.34038	0.3404
17 Endosulfan I	10.667	10.667	(0.624)	4439162421	0.25861	0.2586(R)
18 DDE	10.838	10.838	(0.634)	12034115773	0.65918	0.6592
19 Dieldrin	11.104	11.102	(0.650)	12757006928	0.68113	0.6811
20 Endrin	11.574	11.572	(0.678)	11271764305	0.67917	0.6792
21 DDD	11.729	11.729	(0.687)	10017523706	0.69178	0.6918
22 Endosulfan II	11.890	11.888	(0.696)	10180137356	0.66311	0.6631
23 DDT	12.186	12.184	(0.713)	9143186129	0.59791	0.5979
24 Endrin Aldehyde	12.380	12.377	(0.725)	5810483459	0.48014	0.4801
25 Endosulfan Sulfate	12.770	12.768	(0.748)	8707719638	0.64312	0.6431
26 Methoxychlor	13.138	13.136	(0.769)	20629825132	3.63578	3.636
27 Endrin Ketone	13.509	13.506	(0.791)	9439024769	0.61981	0.6198

Compounds	CONCENTRATIONS					
	ON-COLUMN			FINAL		
	RT	EXP RT	REL RT	RESPONSE	(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	15.408	15.404	(0.902)	17996126800	1.52567	1.526
* 29 Decachlorodiphenyl Ether	17.081	17.076	(1.000)	19305849517	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/14Jul2009.b/P071407.d

Lab Smp Id: 0907047A pcbClient Smp ID: LCS

Inj Date : 14-JUL-2009 20:39

Operator : rnInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide II

Method : /chem/gcp.i/14Jul2009.b/p09p0522.m

Meth Date : 14-Jul-2009 15:38 lzhangQuant Type: ISTD

Cal Date : 22-MAY-2009 19:06Cal File: P052203.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS				
		ON-COLUMN			FINAL	
Compounds		RT	EXP RT	REL RT	RESPONSE (ug/mL)	(ug)
=====		==	=====	=====	=====	=====
\$ 2 TCMX		6.011	6.009	(0.352)	9084978024	0.60800 0.608
M 3 pcb1016/1242					7960803897	3.66760 3.67
4 pcb1016/1242-1		7.420	7.418	(0.434)	1377988208	3.94182 3.94
5 pcb1016/1242-2		8.215	8.217	(0.481)	3004336776	3.42087 3.42
6 pcb1016/1242-3		8.451	8.453	(0.495)	1902163665	3.48282 3.48
7 pcb1016/1242-4		9.286	9.285	(0.544)	1676315247	4.22670 4.23
M 8 pcb1260					14039384176	3.99535 4.00
9 pcb1260-1		11.351	11.349	(0.665)	2802305048	3.85153 3.85
10 pcb1260-2		11.658	11.657	(0.683)	3555806392	4.00487 4.00
11 pcb1260-3		12.731	12.729	(0.745)	2627449228	4.05211 4.05
12 pcb1260-4		13.068	13.067	(0.765)	5053823508	4.04286 4.04
\$ 38 DCB		15.405	15.403	(0.902)	5221370345	0.52019 0.520
* 39 Decachlorodiphenyl Ether		17.078	17.074	(1.000)	19165867256	2.00000

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071419.d

Calibration Time: 19:02

Lab Smp Id: 0907047A pest

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	19850667168	9925333584	39701334336	19305849517	-2.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
29 Decachlorodipheny	17.08	16.58	17.58	17.08	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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071407.d

Calibration Time: 18:36

Lab Smp Id: 0907047A pcb

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	18648773486	9324386743	37297546971	19165867256	2.77
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	17.07	16.57	17.57	17.08	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/gcp.i/14Jul2009.b/P071419.d

Date : 15-JUL-2009 02:00

Client ID: LCS

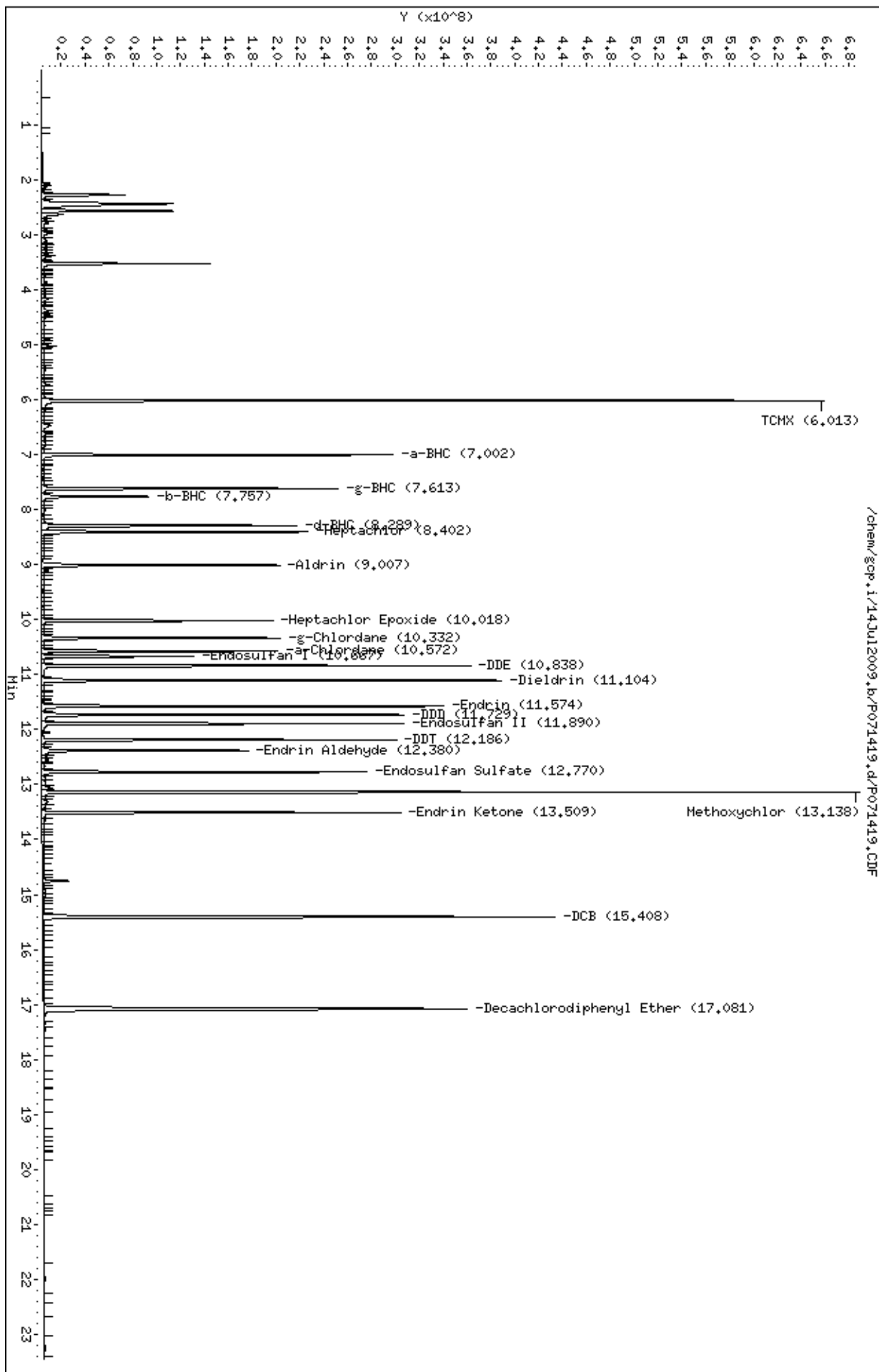
Sample Info:

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Data File: /chem/gcp.i/14Jul2009.b/P071407.d

Date : 14-JUL-2009 20:39

Client ID: LCS

Sample Info:

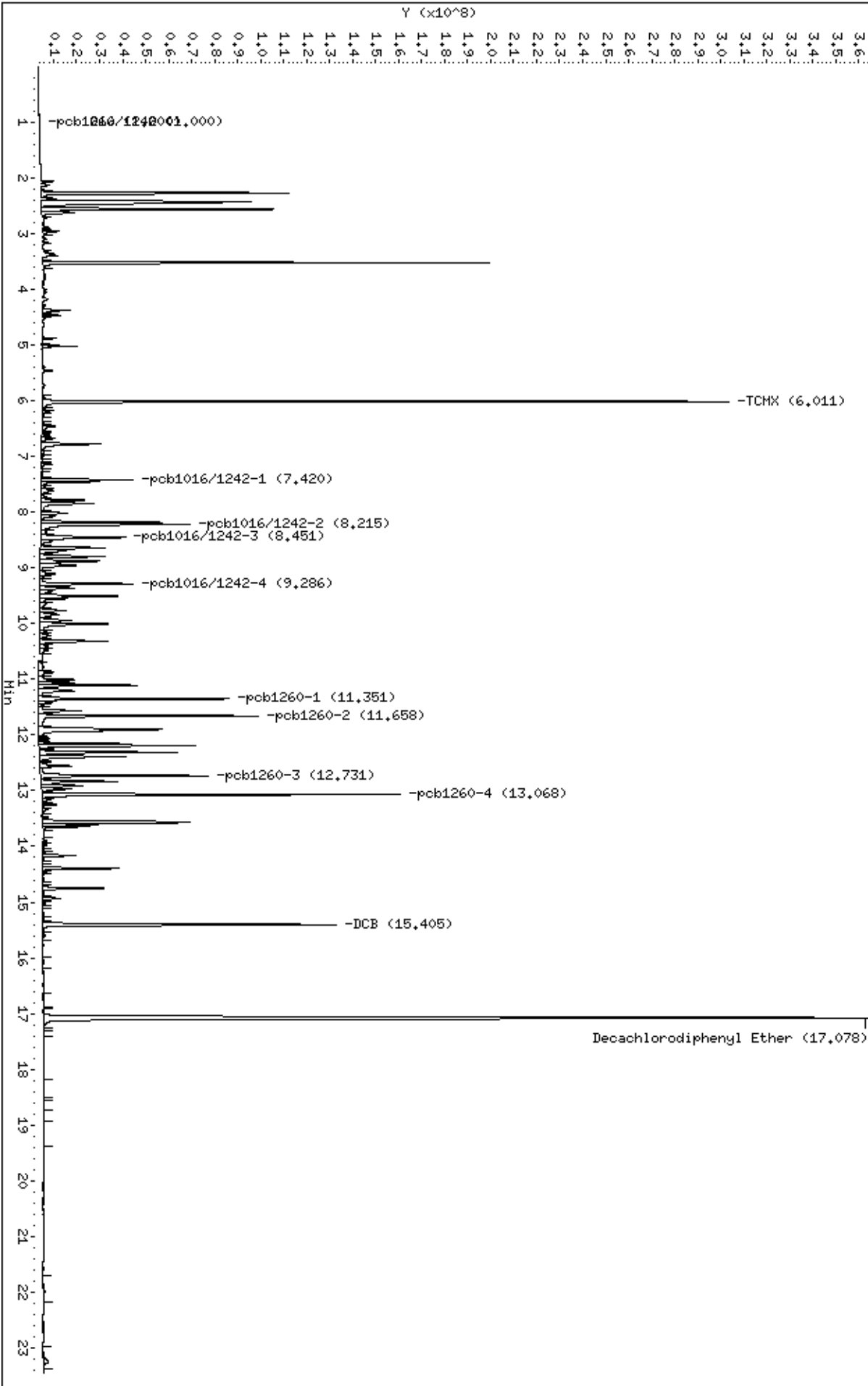
Instrument: gcp.i

Operator: m

Column diameter: 2.00

Column phase:

/chem/gcp.i/14Jul2009.b/P071407.d/P071407.CDF



Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071419b.d

Lab Smp Id: 0907047A pestClient Smp ID: LCS

Inj Date : 15-JUL-2009 02:00

Operator : rnInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Back column, Rtx-CLPesticides

Method : /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Meth Date : 14-Jul-2009 15:37 lzhangQuant Type: ISTD

Cal Date : 19-MAY-2009 20:37Cal File: P051912b.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound Sublist: LCSfull.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

CONCENTRATIONS						
				ON-COLUMN	FINAL	
Compounds				(ug)	(ug)	
=====				=====	=====	
\$ 2	TCMX	5.834	5.831 (0.371)	7790173308	1.11705	1.117
8	a-BHC	6.707	6.704 (0.427)	3337895166	0.35044	0.3504
9	g-BHC	7.229	7.225 (0.460)	2978362872	0.33474	0.3347
10	b-BHC	7.371	7.368 (0.469)	1273681387	0.35615	0.3561
11	d-BHC	7.685	7.682 (0.489)	2999233737	0.35817	0.3582
12	Heptachlor	8.049	8.045 (0.512)	2901186450	0.35333	0.3533
13	Aldrin	8.596	8.592 (0.547)	2733094272	0.34375	0.3438
14	Heptachlor Epoxide	9.678	9.674 (0.616)	2483186626	0.35274	0.3527
15	g-Chlordane	9.889	9.885 (0.630)	2220329105	0.29864	0.2986
16	a-Chlordane	10.109	10.105 (0.644)	2399252313	0.33511	0.3351
18	Endosulfan I	10.340	10.337 (0.658)	2256515478	0.33813	0.3381
17	DDE	10.224	10.222 (0.651)	4944683289	0.75067	0.7507
19	Dieldrin	10.723	10.719 (0.683)	5086524390	0.70668	0.7067
20	Endrin	11.086	11.082 (0.706)	4536324096	0.71047	0.7105
21	DDD	11.168	11.166 (0.711)	3804694603	0.67210	0.6721
22	Endosulfan II	11.427	11.423 (0.728)	4041486721	0.66731	0.6673
23	DDT	11.583	11.580 (0.738)	4261531488	0.68075	0.6808
24	Endrin Aldehyde	12.037	12.033 (0.766)	1842231562	0.36227	0.3623
26	Endosulfan Sulfate	12.650	12.646 (0.805)	3567707490	0.63955	0.6396
25	Methoxychlor	12.265	12.262 (0.781)	9033288916	3.23796	3.238
27	Endrin Ketone	13.038	13.034 (0.830)	4286869728	0.61712	0.6171

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN	FINAL
					(ug)	(ug)
=====	==	=====	=====	=====	=====	=====
\$ 28 DCB	14.385	14.381	(0.916)	8783397334	1.57705	1.577
* 29 Decachlorodiphenyl Ether	15.706	15.701	(1.000)	8848791485	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/14Jul2009.b/P071407b.d

Lab Smp Id: 0907047A pcbClient Smp ID: LCS

Inj Date : 14-JUL-2009 20:39

Operator : rnInst ID: gcp.i

Smp Info :

Misc Info : None

Comment : Rtx-CLPesticide

Method : /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Meth Date : 14-Jul-2009 15:38 lzhangQuant Type: ISTD

Cal Date : 22-MAY-2009 23:59Cal File: P052214b.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP GenieCompound Sublist: CCV.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable

Local Compound Variable

		CONCENTRATIONS					
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug)
=====		==	=====	=====	=====	=====	=====
\$ 2 TCMX		5.830	5.829	(0.371)	3348599937	0.55826	0.558
M 3 pcb1016/1242					3106286900	3.79187	3.79
4 pcb1016/1242-1		6.922	6.922	(0.441)	788264513	3.73333	3.73
5 pcb1016/1242-2		7.700	7.702	(0.490)	1044270226	3.86833	3.87
6 pcb1016/1242-3		7.923	7.925	(0.505)	729651523	3.73677	3.74
7 pcb1016/1242-4		8.633	8.632	(0.550)	544100637	3.80923	3.81
M 8 pcb1260					5584433199	3.68747	3.69
9 pcb1260-1		10.692	10.691	(0.681)	1141645222	3.87074	3.87
10 pcb1260-2		11.114	11.114	(0.708)	1577944284	3.52335	3.52
11 pcb1260-3		12.059	12.058	(0.768)	743676562	3.01930	3.02(R)
12 pcb1260-4		12.487	12.487	(0.795)	2121167130	4.03775	4.04
\$ 38 DCB		14.382	14.380	(0.916)	2487346750	0.53230	0.532
* 39 Decachlorodiphenyl Ether		15.701	15.699	(1.000)	8616709310	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071419b.d

Calibration Time: 19:02

Lab Smp Id: 0907047A pest

Client Smp ID: LCS

Analysis Type:

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	8415739331	4207869665	16831478662	8848791485	5.15
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
29 Decachlorodipheny	15.70	15.20	16.20	15.71	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.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i

Calibration Date: 14-JUL-2009

Lab File ID: P071407b.d

Calibration Time: 18:36

Lab Smp Id: 0907047A pcb

Client Smp ID: LCS

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: rn

Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m

Misc Info: None

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	8100028078	4050014039	16200056156	8616709310	6.38
-----	-----	-----	-----	-----	-----

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
39 Decachlorodipheny	15.70	15.20	16.20	15.70	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: 14Jul2009
Sample Matrix: GAS Fraction:
Lab Smp Id: 0907047A pest Client Smp ID: LCS
Level: LOW Operator: rn
Data Type: GC DATA SampleType: LCS
SpikeList File: 1050-166.spk Quant Type: ISTD
Sublist File: LCSfull.sub
Method File: /chem/gcp.i/14Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3504	87.61	65-125
10 b-BHC	0.4000	0.3561	89.04	65-125
9 g-BHC	0.4000	0.3347	83.68	65-125
11 d-BHC	0.4000	0.3582	89.54	65-125
12 Heptachlor	0.4000	0.3533	88.33	65-125
13 Aldrin	0.4000	0.3438	85.94	65-125
14 Heptachlor Epoxide	0.4000	0.3527	88.19	65-125
18 Endosulfan I	0.4000	0.3381	84.53	65-125
17 DDE	0.8000	0.7507	93.83	65-125
19 Dieldrin	0.8000	0.7067	88.33	65-125
20 Endrin	0.8000	0.7105	88.81	65-125
22 Endosulfan II	0.8000	0.6673	83.41	65-125
21 DDD	0.8000	0.6721	84.01	65-125
24 Endrin Aldehyde	0.8000	0.3623	45.28	20-86
26 Endosulfan Sulfate	0.8000	0.6396	79.94	65-125
23 DDT	0.8000	0.6808	85.09	65-125
27 Endrin Ketone	0.8000	0.6171	77.14	65-125
16 a-Chlordane	0.4000	0.3351	83.78	65-125
15 g-Chlordane	0.4000	0.2986	74.66	65-125
25 Methoxychlor	4.000	3.238	80.95	65-125
168 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 2 TCMX	1.400	1.117	79.79	60-120
\$ 28 DCB	2.200	1.577	71.68	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Jul2009
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0907047A pcb Client Smp ID: LCS
Level: LOW Operator: rn
Data Type: GC DATA SampleType: LCS
SpikeList File: LCS10.spk Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/14Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND		CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
M	3 pcb1016/1242	5.00	3.79	75.84	65-125
	4 pcb1016/1242-1	5.00	3.73	74.67	65-125
	5 pcb1016/1242-2	5.00	3.87	77.37	65-125
	6 pcb1016/1242-3	5.00	3.74	74.74	65-125
	7 pcb1016/1242-4	5.00	3.81	76.18	65-125
M	8 pcb1260	5.00	3.69	73.75	65-125
	9 pcb1260-1	5.00	3.87	77.41	65-125
	10 pcb1260-2	5.00	3.52	70.47	65-125
	11 pcb1260-3	5.00	3.02	60.39*	65-125
	12 pcb1260-4	5.00	4.04	80.76	65-125

SURROGATE COMPOUND		CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$	2 TCMX	0.600	0.558	93.04	60-120
\$	38 DCB	0.600	0.532	88.72	60-120

Data File: /chem/gcp.i/14Jul2009.b/P071419b.d

Date : 15-JUL-2009 02:00

Client ID: LCS

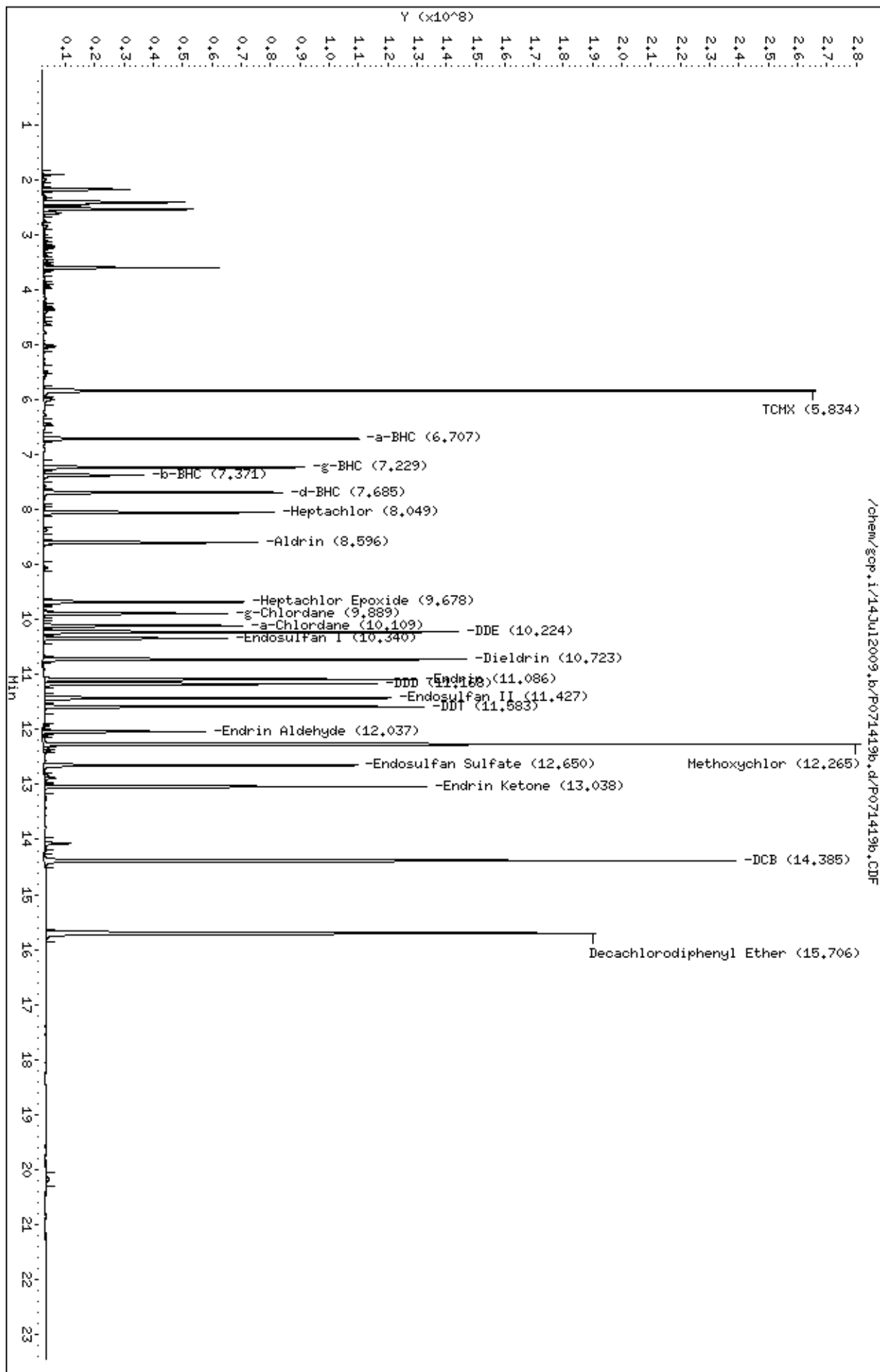
Sample Info:

Column phase:

Instrument: gcp.i

Operator: m

Column diameter: 2.00



Data File: /chem/gcp.i/14Jul2009.b/P071407b.d

Date : 14-JUL-2009 20:39

Client ID: LCS

Sample Info:

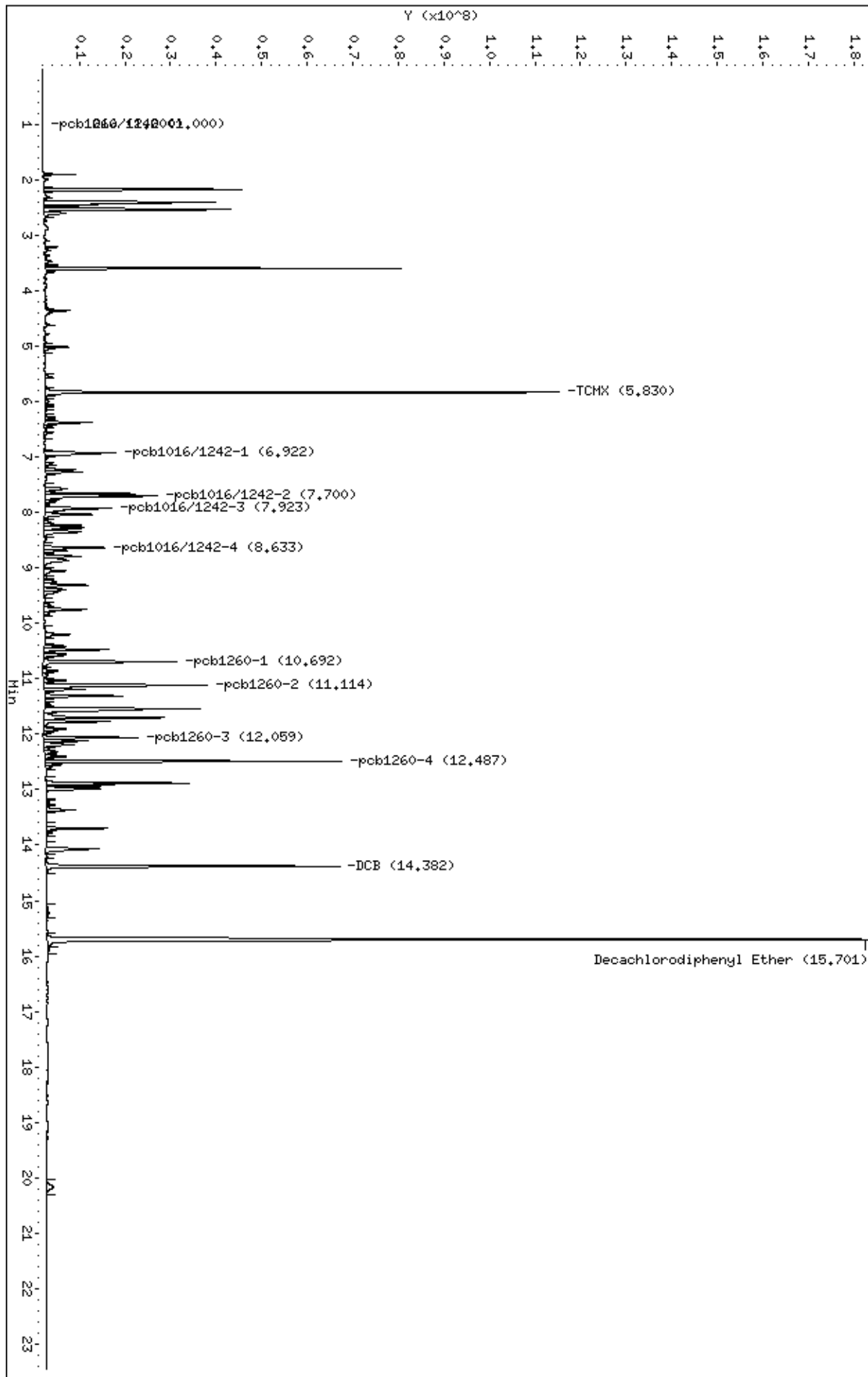
Instrument: gcp.i

Operator: m

Column diameter: 2.00

Column phase:

/chem/gcp.i/14Jul2009.b/P071407b.d/P071407b.CMF



Date Extracted: 7/6/09
Set-up By: MJS
Spiked By: MJS
Spike Date: 7/6/09
Initial Solvent: Dichloromethane
Initial Solvent Lot#: 090321

Spike Witness: Act
Date Witnessed: 7/6/09
☐ **Proj.Pr./COC checked** ☐ **Spike ID Verified**
☐ **Spike Amt. Verified** ☐ **Equipment checked**
☐ **Verified Media Certified**

Final Solvent: Hexane
Final Solvent Lot#: 090185
Concentrated By: HTS
Date Concentrated: 7/7/09

[illegible]

Comments:

Signed _____

7/7/09
Date

Method: Mod. TO-4A/TO-10A

106

IS Std ID	IS	Area Counts	Breakdown %	
NO	1-Bromo-2-Nitrobenzene	Front: na Back: na	Endrin	Front: 3.37 Back: 3.52
1605-32E50	Decafluorodiphenyl Ether Pest	Front: 198506671108 Back: 8415739331	DDT	Front: 8.33 Back: 6.65
↓	PCB	Front: 18648773486 Back: 8100028078	must be ≤15%	

Injection Volume: 1.0 μL

(GMT)

USE	File #	Sample/ Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P071401	Hexane Wash	1	1.0	RON	07/14/09	1742	W
2	✓	02	1685-143-0.8	2			1809		
3	✓	03	1685-137A-5 ^{PCB} CCV	3			1836		
4	✓	04	1685-135A-0.6 ^{Pest} CCV	4			1902		
5	✓	05	Hexane Blank	5			1929		
6	✓	06	0907047A-Blank	6			2012		
7	✓	07	-PCB/CS	7			2039		
8	X	08	-Pest/CS	8			2106		IS ↓
9	✓	09	-OIA	9			2133		
10	✓	10	↓ -OYA	10			2159		
11	✓	11	0907123A-Blank	11			2226		
12	✓	12	↓ -PCB/CS	12			2253		
13	✓	13	↓ -Pest/CS	13			2320		
14	✓	14	0907123A-OIA	14			2346		
15	✓	15	↓ -OYA	15		07115109	0013		
16	✓	16	0907124A-OIA	16			0040		
17	✓	17	↓ -OYA	17			0107		
18	✓	18	P090703	18			0133		cut
19	✓	19	0907047A- ^{Pest} CS	19			0200		
20	✓	20	1685-137A-5 ^{PCB} CCV	20			0227		
21	✓	21	1685-135A-0.6 ^{Pest} CCV	21			0254		
22									
23									
24						W 7115109			

Calculation Check:

File ID: P071413 Compound: α -BHC

Initials: LI

$$\text{nG On Column} = \frac{\text{Area of Compound in Sample}}{\text{Area of Int. Standard in Sample}} \times \text{Conc. Int. Standard} = \frac{(9389833889)}{(1937573127)} \times \left(\frac{2.0}{2.78691} \right) =$$

0.3478

$$\mu\text{G}/\text{Sample} = \frac{\text{nG On Column} \times 1000 \mu\text{L Final Vol.} \times \text{D.F.}}{1.0 \mu\text{L Inj. Vol.} \times 1000 \text{ nG}/\mu\text{G}} = \frac{(0.3478) \times (1000) \times (1.00)}{(1000)}$$

0.3478

Reported Result = 0.3478

Signed

Date _____

Revised: 02/27/06

Shipping/ Receiving Documents

**180 Blue Ravine Road, Suite B
Folsom, CA 95630**

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

COMPANY: Tetra Tech
ATTENTION: Mr. Doug Herlocker
FAX #: _____
FROM: Sample Receiving
Workorder #: 0907047A
of pages (Including Cover): 1

7/17/2009

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

SORBENT SAMPLE COLLECTION



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Requiring 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. Requiring 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 95685-4719 916 952-30

(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Doug Hecker

Collected by: (Print and Sign) Becki Davis

Company Tetra Tech EM1 Email davis.becki@tetra-tech.com

Address 350 American Ln City Boise State ID Zip 83706

Phone 208 389 1030 Fax 208 389 1183

Project Info:

P.O. #

Project # 103P0333.000

Project Name BMI OFFSITE

Turn Around Time: ☒ Normal ☐ Rush

Circle Reporting Units: ppbv ppmv ug/m³ mg/m³

Specify

Lab ID	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
01A	OFF03-063009		6/30/09	0710	1041	9.45		704A
	OFF03-063009					9.48		709A
	OFF03-063009					9.45		7013A
01A	OFF04-063009					9.13		704A
	OFF04-063009					9.13		709A
	OFF04-063009					9.13		703A
<div style="border: 1px solid black; height: 100px; width: 100%;"></div>								
Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>6/30/09 1200</u>		Received by: (signature) <u>[Signature]</u> Date/Time <u>6/30/09 0925</u>		Pump Calibration Information				
Relinquished by: (signature) <u>[Signature]</u> Date/Time		Received by: (signature) <u>[Signature]</u> Date/Time		Pre-test Flow Rate:				
Relinquished by: (signature) <u>[Signature]</u> Date/Time		Received by: (signature) <u>[Signature]</u> Date/Time		Post-test Flow Rate:				
Relinquished by: (signature) <u>[Signature]</u> Date/Time		Received by: (signature) <u>[Signature]</u> Date/Time		Average Flow Rate:				
Relinquished by: (signature) <u>[Signature]</u> Date/Time		Received by: (signature) <u>[Signature]</u> Date/Time		Notes:				
Lab Use Only	Shipper Name	Air/Bulb #	Temp (°C)	Condition	Check Seals Intact?	Work Order #		
	FEED FILL		3°C	Good	Yes	No	None	0907047

SAMPLE RECEIPT SUMMARY

WORKORDER 0907047A

Client

Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Phone

208-389-1030

Fax

Date Promised: 07/17/09

Date Completed: 7/15/09

Date Received: 7/2/09

PO#: 103P0333.005

Project#: 109P0333.006 BMI Offsite

Sales Rep: JJM

Total \$: \$ 720.00

Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	OFF03-063009	Modified TO-4A	6/30/2009	\$360.00
04A	OFF04-063009	Modified TO-4A	6/30/2009	\$360.00
05A	Lab Blank	Modified TO-4A	NA	\$0.00
06A	LCS	Modified TO-4A	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#: Las Vegas Phase III/12356

BILL TO: Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Analysis Code: Pest/PCB

TERMS: NET 45

Reporting Method: Modified TO-4A

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

Other Records

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/14Jul2009.b/P071402b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 14-JUL-2009 18:09
Operator : rn Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/14Jul2009.b/BREAK.m/BREAKB.m
Meth Date : 16-Jun-2009 16:04 rnoonan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Oil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (area)	FINAL (area)
1 Total DDT				3787361392		
2 Total Endrin				4325857721		
3 p,p'-DDE	10.897	10.844	0.053	38716296		
4 Endrin	11.079	11.573	-0.494	4173460967		
5 p,p'-DDD	11.166	11.735	-0.569	213179575		
6 p,p'-DDT	11.577	12.186	-0.609	3535465520		
7 Endrin Aldehyde	12.031	12.380	-0.349	10478635		
8 Endrin Ketone	13.032	13.509	-0.477	141918118		

$$\text{Endrin Breakdown} = \frac{10478635 + 141918118}{4325857721} \times 100 = 3.52\%$$

$$\text{DDT Breakdown} = \frac{38716296 + 213179575}{3787361392} \times 100 = 6.65\%$$

Air Toxics Ltd.

Pesticides Analysis, dual ECD
Data file : /chem/gcp.i/14Jul2009.b/P071402.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 14-JUL-2009 18:09
Operator : rn Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/14Jul2009.b/BREAK.m
Meth Date : 16-Jun-2009 15:58 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (area)	FINAL (area)
1 Total DDT				9518628045		
2 Total Endrin				11399479436		
3 p,p'-DDE	10.841	10.848	-0.007	153861812		
4 Endrin	11.571	11.578	-0.007	11015000055		
5 p,p'-DDD	11.732	11.739	-0.007	639078859		
6 p,p'-DDT	12.184	12.190	-0.006	8725687374		
7 Endrin Aldehyde	12.378	12.386	-0.008	50027905		
8 Endrin Ketone	13.506	13.513	-0.007	334451475		

$$\text{Endrin Breakdown} = \frac{50027905 + 334451475}{11399479436} \times 100 = 3.37\%$$

$$\text{DDT Breakdown} = \frac{153861812 + 639078859}{9518628045} \times 100 = 8.33\%$$

Sample ID Number	Sample Date			Corrected Average Flow Rate- Qstd (m3/min)	Beginning Timer (hours)	Ending Timer (hours)	Total Sample Time (hours)	Total Sample Volume (m³)	Total Sample Volume (Liters)
CAMUS1-061609 (TO-4)	6/16/2009	48	42	0.19	866.04	875.33	9.29	105.78	105,778.50
CAMUS1-061809 (TO-4)	6/18/2009	48	48	0.19	875.33	885.02	9.69	110.67	110,667.10
CAMUS1-062309 (TO-4)	6/23/2009	44	44	0.182	885.06	894.3	9.24	100.63	100,627.00
CAMUS1-062509 (TO-4)	6/25/2009	52	52	0.198	894.29	900.67	6.38	75.7	75,695.50
CAMUS1-061609 (TO-9)	6/16/2009	54	50	0.17	849.73	859.02	9.29	94.83	94,829.20
CAMUS1-061809 (TO-9)	6/18/2009	52	52	0.166	859.02	868.71	9.69	96.74	96,735.40
CAMUS1-062309 (TO-9)	6/23/2009	52	52	0.166	868.74	874.52	5.78	57.51	57,510.70
CAMUS1-062509 (TO-9)	6/25/2009	54	52	0.167	874.54	884.36	9.82	98.62	98,621.00
CAMUS1-061609 (TO-13)	6/16/2009	48	42	0.205	922.79	932.07	9.28	114.07	114,066.20
CAMUS1-061809 (TO-13)	6/18/2009	38	38	0.186	932.09	941.77	9.68	108	108,001.60
CAMUS1-062309 (TO-13)	6/23/2009	48	46	0.203	941.75	947.58	5.83	70.94	70,935.20
CAMUS1-062509 (TO-13)	6/25/2009	46	44	0.2	947.6	957.43	9.83	117.67	117,673.40
CAMUS3									
CAMUS3-061609 (TO-4)	6/16/2009	54	48	0.216	861.46	871.05	9.59	124.04	124,036.50
CAMUS3-061809 (TO-4)	6/18/2009	56	56	0.219	871.05	880.48	9.43	123.74	123,738.10
CAMUS3-062309 (TO-4)	6/23/2009	50	50	0.208	880.4	890.05	9.65	120.45	120,452.10
CAMUS3-062509 (TO-4)	6/25/2009	52	52	0.212	890.05	900.72	10.67	135.63	135,632.80
CAMUS3-061609 (TO-9)	6/16/2009	56	50	0.218	864.78	874.36	9.58	125.1	125,095.60
CAMUS3-061809 (TO-9)	6/18/2009	54	54	0.214	874.37	883.79	9.42	120.94	120,935.40
CAMUS3-062309 (TO-9)	6/23/2009	54	54	0.213	883.8	893.36	9.56	122.28	122,275.80
CAMUS3-062509 (TO-9)	6/25/2009	54	52	0.212	893.37	904.02	10.65	135.45	135,450.70
CAMUS3-061609 (TO-13)	6/16/2009	50	48	0.214	976.92	986.5	9.58	123.05	123,046.60
CAMUS3-061809 (TO-13)	6/18/2009	48	48	0.207	986.51	995.94	9.43	117.24	117,240.40
CAMUS3-062309 (TO-13)	6/23/2009	50	50	0.21	995.95	1005.5	9.55	120.31	120,307.40
CAMUS3-062509 (TO-13)	6/25/2009	52	48	0.125	1005.51	1016.18	10.67	80.3	80,299.90
OFF03									
OFF03-061609 (TO-4)	6/17/2009	44	42	0.125	310.57	320.35	9.78	73.6	73,602.00
OFF03-061809 (TO-4)	6/18/2009	NA	NA	NA	320.35	320.35	0	NA	NA
OFF03-062309 (TO-4)	6/23/2009	42	38	0.12	343.51	353.2	9.69	69.49	69,487.50
OFF03-062509 (TO-4)	6/25/2009	56	52	0.144	353.2	363.02	9.82	84.99	84,987.10
OFF03-063009 (TO-4)	6/30/2009	46	40	0.123	363.02	372.51	9.49	69.97	69,971.50
OFF03-070209 (TO-4)	7/2/2009	56	52	0.145	372.51	381.52	9.01	78.46	78,458.90
OFF03-070709 (TO-4)	7/7/2009	58	54	0.146	381.52	391.57	10.05	87.88	87,883.90
OFF03-061609 (TO-9)	6/17/2009	32	31	0.08	1531.49	1541.29	9.8	47.24	47,237.60
OFF03-061809 (TO-9)	6/18/2009	44	42	0.103	1541.29	1550.77	9.48	58.36	58,362.20
OFF03-062309 (TO-9)	6/23/2009	38	30	0.085	1570.77	1580.4	9.63	49.16	49,156.10
OFF03-062509 (TO-9)	6/25/2009	34	34	0.085	1580.49	1570.39	9.9	50.75	50,753.40
OFF03-063009 (TO-9)	6/30/2009	36	32	0.083	1570.34	1579.82	9.48	47.33	47,326.30
OFF03-070209 (TO-9)	7/2/2009	56	52	0.122	1579.82	1588.83	9.01	65.76	65,758.10
OFF03-070709 (TO-9)	7/7/2009	60	50	0.121	1588.83	1598.89	10.06	72.85	72,849.20
OFF03-061609 (TO-13)	6/17/2009	36	39	0.123	1765.17	1774.94	9.77	71.92	71,921.60
OFF03-061809 (TO-13)	6/18/2009	26	26	0.097	1774.96	1784.44	9.48	55.21	55,211.60

OFF03-062309 (TO-13)	6/23/2009	50	42	0.139	1784.44	1794.19	9.75	81.24	81,242.30
OFF03-062509 (TO-13)	6/25/2009	52	46	0.145	1794.19	1803.37	9.18	79.78	79,775.10
OFF03-063009 (TO-13)	6/30/2009	52	48	0.144	1803.4	1812.88	9.48	81.73	81,727.20
OFF03-070209 (TO-13)	7/2/2009	52	48	0.148	1812.88	1821.9	9.02	79.85	79,848.90
OFF03-070709 (TO-13)	7/7/2009	50	44	0.14	1821.9	1831.95	10.05	84.14	84,140.80
OFF04									
OFF04-061609 (TO-4)	6/17/2009	32	32	0.121	1051.77	1060.33	8.56	62.33	62,332.90
OFF04-061809 (TO-4)	6/18/2009	40	40	0.138	1060.34	1069.62	9.28	77.03	77,025.20
OFF04-092309 (TO-4)	6/23/2009	40	40	0.138	1069.62	1079.23	9.61	79.37	79,365.80
OFF04-062509 (TO-4)	6/25/2009	22	20	0.095	1079.89	1089.82	9.93	56.33	56,329.40
OFF04-063009 (TO-4)	6/30/2009	32	30	0.117	1089.82	1098.95	9.13	64.02	64,019.60
OFF04-070209 (TO-4)	7/2/2009	50	46	0.154	1098.95	1107.76	8.81	81.43	81,427.00
OFF04-070709 (TO-4)	7/7/2009	56	52	0.162	1107.76	1116.98	9.22	89.57	89,565.50
OFF04-061609 (TO-9)	6/17/2009	32	31	0.096	4556.43	4564.97	8.54	48.97	48,973.70
OFF04-061809 (TO-9)	6/18/2009	36	34	0.103	4564.97	4574.27	9.3	57.48	57,482.10
OFF04-062309 (TO-9)	6/23/2009	44	44	0.119	4574.27	4583.87	9.6	68.73	68,730.80
OFF04-062509 (TO-9)	6/25/2009	44	40	0.116	4583.88	4594.47	10.59	73.8	73,797.00
OFF04-063009 (TO-9)	6/30/2009	48	46	0.122	4594.47	4603.6	9.13	67.02	67,015.80
OFF04-070209 (TO-9)	7/2/2009	50	48	0.129	4603.6	4612.41	8.81	68.33	68,334.30
OFF04-070709 (TO-9)	7/7/2009	58	56	0.14	4612.41	4621.63	9.22	77.3	77,297.90
OFF04-061609 (TO-13)	6/17/2009	36	39	0.075	909.82	918.36	8.54	38.26	38,258.40
OFF04-061809 (TO-13)	6/18/2009	48	46	0.091	918.37	927.65	9.28	50.68	50,675.40
OFF04-062309 (TO-13)	6/23/2009	28	28	0.056	927.65	937.26	9.61	32.34	32,344.40
OFF04-062509 (TO-13)	6/25/2009	24	24	0.048	937.26	947.85	10.59	30.37	30,366.00
OFF04-063009 (TO-13)	6/30/2009	28	26	0.052	947.85	956.98	9.13	28.72	28,723.20
OFF04-070209 (TO-13)	7/2/2009	45	40	0.084	956.98	965.79	8.81	44.46	44,457.90
OFF04-070709 (TO-13)	7/7/2009	54	46	0.094	965.79	975.01	9.22	52.01	52,005.60

Compound Listing

Modified TO-4A

CAS Number	Compound	Detection Limit	Type
		ug	
33213-65-9	Endosulfan II	0.10	
309-00-2	Aldrin	0.10	
8001-35-2	Toxaphene	1.0	
9999-9999-098	Aroclor 1016/1242	1.0	
11141-16-5	Aroclor-1232	1.0	
12672-29-6	Aroclor-1248	1.0	
11097-69-1	Aroclor-1254	1.0	
11096-82-5	Aroclor-1260	1.0	
877-09-8	2,4,5,6-Tetrachloro-m-xylene		
2051-24-3	Decachlorobiphenyl		
11104-28-2	Aroclor-1221	1.0	
319-84-6	alpha-BHC	0.10	
319-85-7	beta-BHC	0.10	
319-86-8	delta-BHC	0.10	
58-89-9	gamma-BHC (Lindane)	0.10	
5103-71-9	alpha-Chlordane	0.10	
5103-74-2	gamma-Chlordane	0.10	
72-54-8	4,4'-DDD	0.10	
72-55-9	4,4'-DDE	0.10	
50-29-3	4,4'-DDT	0.10	
60-57-1	Dieldrin	0.10	
959-98-8	Endosulfan I	0.10	
1031-07-8	Endosulfan Sulfate	0.10	
72-20-8	Endrin	0.10	
7421-93-4	Endrin Aldehyde	0.10	
53494-70-5	Endrin Ketone	0.10	
76-44-8	Heptachlor	0.10	
1024-57-3	Heptachlor Epoxide	0.10	
72-43-5	4,4'-Methoxychlor	1.0	

DATA REVIEW CHECKLIST

Work Order #:

0907047A

A ₁	A ₂	R	T	M	Q	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The final report has the correct reporting list, special units, and header info.
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample Discrepancy Report (SDR) is completed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Corrective Action issued - #
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unusual circumstances have been documented in the notes section below

LUMEN validation report present and initialed

CIRCLE (YES / NO)

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lab Blank, CCV, LCS and DUP met QC criteria
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hold time is met for all samples
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Appropriate data qualifier flags are applied
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manual integrations for samples and QC are properly documented
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples analyzed within the project or method specific clock
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Retention times have been verified
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate ICAL(s) included
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one result per sample is verified against the target quant sheets/raw data
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Correct amount of sample analyzed (i.e. sample not over-diluted)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TICs resemble reference spectra
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TICs between duplicate samples are consistent
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Data for multiple analyses of sample(s) has been evaluated for comparability of results
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Special units for all samples in the final report are correctly calculated
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manually entered results checked (i.e. TPH/NMOC)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chain of Custody scanned correctly
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify sample id's vs. chain of custody
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date MDL(s) performed per instrument(s) 3/23/09 3/16/09 12/19/08
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples pressurized w/ appropriate gas (N ₂ or He) <input checked="" type="checkbox"/> Other (i.e. Tedlar bag, cartridge, sorbent)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final pressure consistent with canister size (6L vs. 1L)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify receipt pressures
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify canister ID #'s
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDL date(s) present for all instruments utilized
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Client LUMEN report reviewed for accuracy and completeness

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

R: GMT in target files

Report on ug/m³. Client provided volume

Q:

A ₁ /A ₂ (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A ₁ :	R: 7/15/09	M: 7/15/09	
A ₂ :	T:		

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

Rev. 02/20/09

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

Not Applicable