Air Toxics LTD.

Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-13A

INVENTORY SHEET

Work Order #: 0906709B

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/20/09
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 0906709B

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 #**	103P0333.06 BMI
DATE RECEIVED:	06/30/2009	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/16/2009		

FRACTION #	NAME	TEST
03A	OFF03062509	Modified TO-13A
03AA	OFF03062509 Lab Duplicate	Modified TO-13A
06A	OFF04062509	Modified TO-13A
07A	Lab Blank	Modified TO-13A
08A	LCS	Modified TO-13A

CERTIFIED BY: Linda L. Freeman DATE: 07/16/09

Laboratory Director

Certfication 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-13A
Tetra Tech
Workorder# 0906709B

Two PUF/XAD Cartridge samples were received on June 30, 2009. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

Method modifications taken to run these samples include:

Requirement	*TO-13A*	*ATL Modifications*
Extraction Solvent	10% ether in hexane for PUF; DCM for XAD sorbent. Final extract in hexane.	DCM for PUF/XAD cartridge and XAD sorbent. Final extract in DCM.
Glassware Cleaning	Muffle furnace is utilized.	Solvent cleaning procedure is used.
Extraction technique	Soxhlet extraction	Soxhlet extraction or pressurized fluid extraction (PFE).
Calibration range	0.10 to 2.5 ug/mL	1.0 ug/mL to 160 ug/mL
Solvent Process Blank	Required each analytical batch.	Not performed; each solvent lot is certified prior to use.
Method Blank	<Method Detection Limit	<Reporting Limit

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 80 m3 was assumed for all QC samples.

Recovery of surrogate 2,4,6-Tribromophenol was below specified control limits in sample Lab Blank.

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 06/17/2009.

The RPD of duplicate samples OFF03062509 exceeded acceptance limits for some target species due to target compound concentrations present at less than 5X the reporting limit. There is no effect on data quality.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
E - Exceeds instrument calibration range.
Q - Exceeds quality control limits.
S - Saturated peak.

J - Estimated value.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
U - Compound analyzed for but not detected above the reporting limit.
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
OFF03062509	0906709B-03A	6/25/2009	6/30/2009	7/ 1/2009	6	7/ 9/2009	8	Good
OFF03062509 Lab Dupli	0906709B-03AA	6/25/2009	6/30/2009	7/ 1/2009	6	7/ 9/2009	8	Good
OFF04062509	0906709B-06A	6/25/2009	6/30/2009	7/ 1/2009	6	7/ 9/2009	8	Good
Lab Blank	0906709B-07A	NA	NA	7/ 1/2009	NA	7/ 9/2009	8	Good
LCS	0906709B-08A	NA	NA	7/ 1/2009	NA	7/ 9/2009	8	Good

Sample Results and Raw Data

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF03062509

Lab ID#: 0906709B-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.012	1.9	0.024
2-Methylnaphthalene	1.0	0.012	1.7	0.022
di-n-Butylphthalate	5.0	0.063	39	0.49

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Client Sample ID: OFF03062509

Lab ID#: 0906709B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070917**	**Date of Collection: 6/25/09 5:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 07:16 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.063	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.063	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.063	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.063	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.063	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	1.9	0.024
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.063	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	1.7	0.022
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.063	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

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Client Sample ID: OFF03062509

Lab ID#: 0906709B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070917**	**Date of Collection: 6/25/09 5:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 07:16 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.063	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.063	39	0.49
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.063	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.063	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.063	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 79800
Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	76	50-150
Phenol-d5	79	50-150
Nitrobenzene-d5	73	50-150
2,4,6-Tribromophenol	71	50-150
Fluorene-d10	72	60-120
Pyrene-d10	74	60-120
Fluoranthene-d10	120	50-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03062509

Lab ID#: 0906709B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070917**	**Date of Collection: 6/25/09 5:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 07:16 PM**
		Date of Extraction: 7/1/09

Surrogates	**%Recovery**	**Method Limits**
Benzo(a)pyrene-d12	108	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/09jul09a.b/v070917.d
Lab Smp Id: 0906709B-03A
Inj Date : 09-JUL-2009 19:16
Operator : rn Inst ID: msdv.i
Smp Info : ;0906709B-03A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/09jul09a.b/bnap0708.m
Meth Date : 09-Jul-2009 16:15 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1 2-Fluorophenol	112	2.856	2.856	(0.670)	98488	37.8659	37.86
$ 2 Phenol-d5	99	3.934	3.944	(0.922)	119687	39.7078	39.71
3 Phenol*	94	Compound Not Detected.					
4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5 2-Chlorophenol	128	Compound Not Detected.					
6 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7 1,4-Dichlorobenzene-d4	150	4.266	4.266	(1.000)	101430	40.0000	
9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
11 1,2-Dichlorobenzene	146	Compound Not Detected.					
12 2-Methylphenol	108	Compound Not Detected.					
13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14 4-Methylphenol	108	Compound Not Detected.					
15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	16 Hexachloroethane	117	Compound Not Detected.					
$	17 Nitrobenzene-d5	82	5.033	5.032	(0.850)	139031	36.3305	36.33
	18 Nitrobenzene	77	Compound Not Detected.					
	19 Isophorone	82	Compound Not Detected.					
	20 2-Nitrophenol*	139	Compound Not Detected.					
	21 2,4-Dimethylphenol	122	Compound Not Detected.					
	23 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic Acid	122	Compound Not Detected.					
	25 2,4-Dichlorophenol*	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	5.924	5.924	(1.000)	257816	40.0000	
	28 Naphthalene	128	5.955	5.955	(1.005)	14025	1.92639	1.926
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene*	225	Compound Not Detected.					
	32 4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33 2-Methylnaphthalene	142	6.836	6.836	(1.154)	8369	1.72455	1.724
	145 1-Methylnaphthalene	142	Compound Not Detected.					
	35 Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36 2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37 2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39 2-Chloronaphthalene	162	Compound Not Detected.					
	40 2-Nitroaniline	65	Compound Not Detected.					
	42 Dimethylphthalate	163	Compound Not Detected.					
	45 Acenaphthylene	152	Compound Not Detected.					
	44 2,6-Dinitrotoluene	165	Compound Not Detected.					
	46 3-Nitroaniline	138	Compound Not Detected.					
*	47 Acenaphthene-d10	164	8.141	8.141	(1.000)	145920	40.0000	
	48 Acenaphthene*	154	Compound Not Detected.					
	49 2,4-Dinitrophenol**	184	Compound Not Detected.					
	50 4-Nitrophenol**	109	Compound Not Detected.					
	51 Dibenzofuran	168	Compound Not Detected.					
	52 2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147 Fluorene-d10	176	8.763	8.763	(1.076)	190167	35.8026	35.80
	56 Diethylphthalate	149	Compound Not Detected.					
	57 Fluorene	166	Compound Not Detected.					
	58 4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59 4-Nitroaniline	138	Compound Not Detected.					
	60 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61 N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62 2,4,6-Tribromophenol	330	9.116	9.115	(1.120)	30169	35.5813	35.58
	65 4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66 Hexachlorobenzene	284	Compound Not Detected.					
	68 Pentachlorophenol*	266	Compound Not Detected.					
*	71 Phenanthrene-d10	188	9.903	9.903	(1.000)	263927	40.0000	
	72 Phenanthrene	178	Compound Not Detected.					
	73 Anthracene	178	Compound Not Detected.					
	78 Di-n-butylphthalate	149	10.774	10.774	(1.088)	337547	39.3825	39.38
	80 Fluoranthene*	202	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 148 Pyrene-d10	212	11.603	11.613	(0.866)	251320	37.2329	37.23
81 Pyrene	202	Compound Not Detected.					
85 Butyl benzyl phthalate	149	Compound Not Detected.					
88 Benzo(a)Anthracene	228	Compound Not Detected.					
* 90 Chrysene-d12	240	13.396	13.395	(1.000)	219894	40.0000	
89 3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91 Chrysene	228	Compound Not Detected.					
93 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
94 Di-n-octyl phthalate*	149	Compound Not Detected.					
95 Benzo(b)fluoranthene	252	Compound Not Detected.					
96 Benzo(k)fluoranthene	252	Compound Not Detected.					
98 Benzo(a)pyrene*	252	Compound Not Detected.					
* 99 Perylene-d12	264	15.820	15.831	(1.000)	172341	40.0000	
103 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 83 Fluoranthene-d10	212	11.344	11.344	(1.145)	67811	12.0565	12.06
$ 101 Benzo(a)pyrene-d12	264	15.675	15.686	(0.991)	39424	10.7766	10.78

Report Date: 10-Jul-2009 14:40

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070917.d
Lab Smp Id: 0906709B-03A
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 09-JUL-2009
Calibration Time: 15:37

Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	97401	48700	194802	101430	4.14
27 Naphthalene-d8	223170	111585	446340	257816	15.52
47 Acenaphthene-d10	126615	63308	253230	145920	15.25
71 Phenanthrene-d10	238582	119291	477164	263927	10.62
90 Chrysene-d12	205561	102780	411122	219894	6.97
99 Perylene-d12	169872	84936	339744	172341	1.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
99 Perylene-d12	15.83	15.33	16.33	15.82	-0.06

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

Report Date: 10-Jul-2009 14:40

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 09jul09a
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 0906709B-03A
Level: LOW
Operator: rn
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: PAH100.spk
Quant Type: ISTD
Sublist File: TO13+fs.sub
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	37.86	75.73	50-150
$ 2 Phenol-d5	50.00	39.71	79.42	50-150
$ 17 Nitrobenzene-d5	50.00	36.33	72.66	50-150
$ 147 Fluorene-d10	50.00	35.80	71.61	60-120
$ 62 2,4,6-Tribromophen	50.00	35.58	71.16	50-150
$ 148 Pyrene-d10	50.00	37.23	74.47	60-120
$ 83 Fluoranthene-d10	10.00	12.06	120.56	50-150
$ 101 Benzo(a)pyrene-d12	10.00	10.78	107.77	50-150

Data File: /chem/msdv.i/09jul09a.b/v070917.d

Date : 09-JUL-2009 19:16

Client ID:

Sample Info: ;0906709B-03A;

Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

0015

Data File: /chem/msdv.i/09jul09a.b/v070917.d

Date : 09-JUL-2009 19:16

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 1.926 ug

Data File: /chem/msdv.i/09jul09a.b/v070917.d

Date : 09-JUL-2009 19:16

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 1.724 ug

Data File: /chem/msdv.i/09jul09a.b/v070917.d

Date : 09-JUL-2009 19:16

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 39.38 ug

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF03062509 Lab Duplicate

Lab ID#: 0906709B-03AA

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.012	2.2	0.028
2-Methylnaphthalene	1.0	0.012	1.8	0.023
di-n-Butylphthalate	5.0	0.063	45	0.57
bis(2-Ethylhexyl)phthalate	5.0	0.063	5.3	0.066

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03062509 Lab Duplicate

Lab ID#: 0906709B-03AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070918**	**Date of Collection: 6/25/09 5:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 07:44 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.063	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.063	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.063	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.063	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.063	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	2.2	0.028
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.063	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	1.8	0.023
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.063	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03062509 Lab Duplicate

Lab ID#: 0906709B-03AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070918**	**Date of Collection: 6/25/09 5:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 07:44 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.063	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.063	45	0.57
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.063	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.063	5.3	0.066
Di-n-Octylphthalate	5.0	0.063	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 79800
Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	86	50-150
Phenol-d5	91	50-150
Nitrobenzene-d5	82	50-150
2,4,6-Tribromophenol	82	50-150
Fluorene-d10	79	60-120
Pyrene-d10	82	60-120
Fluoranthene-d10	140	50-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03062509 Lab Duplicate

Lab ID#: 0906709B-03AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070918**	**Date of Collection: 6/25/09 5:40:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 07:44 PM**
		Date of Extraction: 7/1/09

Surrogates	**%Recovery**	**Method Limits**
Benzo(a)pyrene-d12	121	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/09jul09a.b/v070918.d
Lab Smp Id: 0906709B-03AA
Inj Date : 09-JUL-2009 19:44
Operator : rn Inst ID: msdv.i
Smp Info : ;0906709B-03AA;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/09jul09a.b/bnap0708.m
Meth Date : 09-Jul-2009 16:15 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1 2-Fluorophenol	112	2.856	2.856	(0.670)	97480	43.0894	43.09
$ 2 Phenol-d5	99	3.934	3.944	(0.922)	119173	45.4566	45.46
3 Phenol*	94	Compound Not Detected.					
4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5 2-Chlorophenol	128	Compound Not Detected.					
6 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7 1,4-Dichlorobenzene-d4	150	4.266	4.266	(1.000)	88222	40.0000	
9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
11 1,2-Dichlorobenzene	146	Compound Not Detected.					
12 2-Methylphenol	108	Compound Not Detected.					
13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14 4-Methylphenol	108	Compound Not Detected.					
15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	16 Hexachloroethane	117	Compound Not Detected.					
$	17 Nitrobenzene-d5	82	5.033	5.032	(0.850)	137232	41.2450	41.24
	18 Nitrobenzene	77	Compound Not Detected.					
	19 Isophorone	82	Compound Not Detected.					
	20 2-Nitrophenol*	139	Compound Not Detected.					
	21 2,4-Dimethylphenol	122	Compound Not Detected.					
	23 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic Acid	122	Compound Not Detected.					
	25 2,4-Dichlorophenol*	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	5.924	5.924	(1.000)	224158	40.0000	
	28 Naphthalene	128	5.955	5.955	(1.005)	14300	2.25909	2.259
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene*	225	Compound Not Detected.					
	32 4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33 2-Methylnaphthalene	142	6.836	6.836	(1.154)	7842	1.85859	1.858
	145 1-Methylnaphthalene	142	Compound Not Detected.					
	35 Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36 2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37 2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39 2-Chloronaphthalene	162	Compound Not Detected.					
	40 2-Nitroaniline	65	Compound Not Detected.					
	42 Dimethylphthalate	163	Compound Not Detected.					
	45 Acenaphthylene	152	Compound Not Detected.					
	44 2,6-Dinitrotoluene	165	Compound Not Detected.					
	46 3-Nitroaniline	138	Compound Not Detected.					
*	47 Acenaphthene-d10	164	8.142	8.141	(1.000)	126914	40.0000	
	48 Acenaphthene*	154	Compound Not Detected.					
	49 2,4-Dinitrophenol**	184	Compound Not Detected.					
	50 4-Nitrophenol**	109	Compound Not Detected.					
	51 Dibenzofuran	168	Compound Not Detected.					
	52 2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147 Fluorene-d10	176	8.763	8.763	(1.076)	182911	39.5935	39.59
	56 Diethylphthalate	149	Compound Not Detected.					
	57 Fluorene	166	Compound Not Detected.					
	58 4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59 4-Nitroaniline	138	Compound Not Detected.					
	60 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61 N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62 2,4,6-Tribromophenol	330	9.116	9.115	(1.120)	30057	40.7579	40.76
	65 4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66 Hexachlorobenzene	284	Compound Not Detected.					
	68 Pentachlorophenol*	266	Compound Not Detected.					
*	71 Phenanthrene-d10	188	9.903	9.903	(1.000)	225407	40.0000	
	72 Phenanthrene	178	Compound Not Detected.					
	73 Anthracene	178	Compound Not Detected.					
	78 Di-n-butylphthalate	149	10.774	10.774	(1.088)	331141	45.2375	45.24
	80 Fluoranthene*	202	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 148 Pyrene-d10	212	11.603	11.613	(0.866)	243101	40.7927	40.79
81 Pyrene	202	Compound Not Detected.					
85 Butyl benzyl phthalate	149	Compound Not Detected.					
88 Benzo(a)Anthracene	228	Compound Not Detected.					
* 90 Chrysene-d12	240	13.396	13.395	(1.000)	194141	40.0000	
89 3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91 Chrysene	228	Compound Not Detected.					
93 bis(2-ethylhexyl)Phthalate	149	13.748	13.748	(1.026)	23162	5.27051	5.270
94 Di-n-octyl phthalate*	149	Compound Not Detected.					
95 Benzo(b)fluoranthene	252	Compound Not Detected.					
96 Benzo(k)fluoranthene	252	Compound Not Detected.					
98 Benzo(a)pyrene*	252	Compound Not Detected.					
* 99 Perylene-d12	264	15.821	15.831	(1.000)	151534	40.0000	
103 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 83 Fluoranthene-d10	212	11.344	11.344	(1.145)	67221	13.9940	13.99
$ 101 Benzo(a)pyrene-d12	264	15.675	15.686	(0.991)	39064	12.1445	12.14

Report Date: 10-Jul-2009 14:41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070918.d
Lab Smp Id: 0906709B-03AA
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 09-JUL-2009
Calibration Time: 15:37

Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	97401	48700	194802	88222	-9.42
27 Naphthalene-d8	223170	111585	446340	224158	0.44
47 Acenaphthene-d10	126615	63308	253230	126914	0.24
71 Phenanthrene-d10	238582	119291	477164	225407	-5.52
90 Chrysene-d12	205561	102780	411122	194141	-5.56
99 Perylene-d12	169872	84936	339744	151534	-10.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
99 Perylene-d12	15.83	15.33	16.33	15.82	-0.06

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

Report Date: 10-Jul-2009 14:41

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 09jul09a
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 0906709B-03AA
Level: LOW
Operator: rn
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: PAH100.spk
Quant Type: ISTD
Sublist File: TO13+fs.sub
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	43.09	86.18	50-150
$ 2 Phenol-d5	50.00	45.46	90.91	50-150
$ 17 Nitrobenzene-d5	50.00	41.24	82.49	50-150
$ 147 Fluorene-d10	50.00	39.59	79.19	60-120
$ 62 2,4,6-Tribromophen	50.00	40.76	81.52	50-150
$ 148 Pyrene-d10	50.00	40.79	81.59	60-120
$ 83 Fluoranthene-d10	10.00	13.99	139.94	50-150
$ 101 Benzo(a)pyrene-d12	10.00	12.14	121.44	50-150

Data File: /chem/msdv.i/09jul09a.b/v070918.d

Date : 09-JUL-2009 19:44

Client ID:

Sample Info: :0906709B-03AA:

Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

0028

Data File: /chem/msdv.i/09jul09a.b/v070918.d

Date : 09-JUL-2009 19:44

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03AA;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 2.259 ug

Data File: /chem/msdv.i/09jul09a.b/v070918.d

Date : 09-JUL-2009 19:44

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03AA;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 1.858 ug

Data File: /chem/msdv.i/09jul09a.b/v070918.d

Date : 09-JUL-2009 19:44

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03AA;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 45.24 ug

Data File: /chem/msdv.i/09jul09a.b/v070918.d

Date : 09-JUL-2009 19:44

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-03AA;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

93 bis(2-ethylhexyl)Phthalate

Concentration: 5.270 ug

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF04062509

Lab ID#: 0906709B-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.033	6.8	0.22
2-Methylnaphthalene	1.0	0.033	7.5	0.25
di-n-Butylphthalate	5.0	0.16	94	3.1

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF04062509

Lab ID#: 0906709B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070919**	**Date of Collection: 6/25/09 5:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 08:11 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.16	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.033	Not Detected	Not Detected
2-Chlorophenol	5.0	0.16	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.033	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.033	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.033	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.16	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.033	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.033	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.16	Not Detected	Not Detected
Hexachloroethane	1.0	0.033	Not Detected	Not Detected
Nitrobenzene	1.0	0.033	Not Detected	Not Detected
Isophorone	1.0	0.033	Not Detected	Not Detected
2-Nitrophenol	5.0	0.16	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.16	Not Detected	Not Detected
Benzoic Acid	30	0.99	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.033	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.16	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.033	Not Detected	Not Detected
Naphthalene	1.0	0.033	6.8	0.22
4-Chloroaniline	10	0.33	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.033	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.16	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.033	7.5	0.25
Hexachlorocyclopentadiene	20	0.66	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.16	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.16	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.033	Not Detected	Not Detected
2-Nitroaniline	10	0.33	Not Detected	Not Detected
Dimethylphthalate	5.0	0.16	Not Detected	Not Detected
Acenaphthylene	1.0	0.033	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.16	Not Detected	Not Detected
3-Nitroaniline	10	0.33	Not Detected	Not Detected
Acenaphthene	1.0	0.033	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.66	Not Detected	Not Detected
4-Nitrophenol	20	0.66	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.16	Not Detected	Not Detected
Dibenzofuran	1.0	0.033	Not Detected	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF04062509

Lab ID#: 0906709B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070919**	**Date of Collection: 6/25/09 5:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 08:11 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.16	Not Detected	Not Detected
Fluorene	1.0	0.033	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.033	Not Detected	Not Detected
4-Nitroaniline	10	0.33	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.33	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.33	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.033	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.033	Not Detected	Not Detected
Pentachlorophenol	20	0.66	Not Detected	Not Detected
Phenanthrene	1.0	0.033	Not Detected	Not Detected
Anthracene	1.0	0.033	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.16	94	3.1
Fluoranthene	1.0	0.033	Not Detected	Not Detected
Pyrene	1.0	0.033	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.16	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.66	Not Detected	Not Detected
Chrysene	1.0	0.033	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.033	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.16	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.16	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.033	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.033	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.033	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.033	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.033	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.033	Not Detected	Not Detected

Air Sample Volume(L): 30400
Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	50-150
Phenol-d5	82	50-150
Nitrobenzene-d5	77	50-150
2,4,6-Tribromophenol	75	50-150
Fluorene-d10	75	60-120
Pyrene-d10	75	60-120
Fluoranthene-d10	128	50-150

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF04062509

Lab ID#: 0906709B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070919**	**Date of Collection: 6/25/09 5:30:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 08:11 PM**
		Date of Extraction: 7/1/09

Surrogates	**%Recovery**	**Method Limits**
Benzo(a)pyrene-d12	114	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/09jul09a.b/v070919.d
Lab Smp Id: 0906709B-06A
Inj Date : 09-JUL-2009 20:11
Operator : rn Inst ID: msdv.i
Smp Info : ;0906709B-06A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/09jul09a.b/bnap0708.m
Meth Date : 09-Jul-2009 16:15 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1 2-Fluorophenol	112	2.856	2.856	(0.670)	105248	39.6510	39.65
$ 2 Phenol-d5	99	3.944	3.944	(0.925)	126801	41.2219	41.22
3 Phenol*	94	Compound Not Detected.					
4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5 2-Chlorophenol	128	Compound Not Detected.					
6 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7 1,4-Dichlorobenzene-d4	150	4.266	4.266	(1.000)	103512	40.0000	
9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
11 1,2-Dichlorobenzene	146	Compound Not Detected.					
12 2-Methylphenol	108	Compound Not Detected.					
13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14 4-Methylphenol	108	Compound Not Detected.					
15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	16 Hexachloroethane	117	Compound Not Detected.					
$	17 Nitrobenzene-d5	82	5.033	5.032	(0.850)	146903	38.4856	38.48
	18 Nitrobenzene	77	Compound Not Detected.					
	19 Isophorone	82	Compound Not Detected.					
	20 2-Nitrophenol*	139	Compound Not Detected.					
	21 2,4-Dimethylphenol	122	Compound Not Detected.					
	23 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic Acid	122	Compound Not Detected.					
	25 2,4-Dichlorophenol*	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	5.924	5.924	(1.000)	257159	40.0000	
	28 Naphthalene	128	5.955	5.955	(1.005)	49406	6.80347	6.803
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene*	225	Compound Not Detected.					
	32 4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33 2-Methylnaphthalene	142	6.836	6.836	(1.154)	36539	7.54860	7.548
	145 1-Methylnaphthalene	142	6.970	6.970	(1.177)	12842	2.72275	2.723
	35 Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36 2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37 2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39 2-Chloronaphthalene	162	Compound Not Detected.					
	40 2-Nitroaniline	65	Compound Not Detected.					
	42 Dimethylphthalate	163	Compound Not Detected.					
	45 Acenaphthylene	152	Compound Not Detected.					
	44 2,6-Dinitrotoluene	165	Compound Not Detected.					
	46 3-Nitroaniline	138	Compound Not Detected.					
*	47 Acenaphthene-d10	164	8.142	8.141	(1.000)	142929	40.0000	
	48 Acenaphthene*	154	Compound Not Detected.					
	49 2,4-Dinitrophenol**	184	Compound Not Detected.					
	50 4-Nitrophenol**	109	Compound Not Detected.					
	51 Dibenzofuran	168	Compound Not Detected.					
	52 2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147 Fluorene-d10	176	8.753	8.763	(1.075)	195179	37.5152	37.52
	56 Diethylphthalate	149	Compound Not Detected.					
	57 Fluorene	166	Compound Not Detected.					
	58 4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59 4-Nitroaniline	138	Compound Not Detected.					
	60 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61 N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62 2,4,6-Tribromophenol	330	9.116	9.115	(1.120)	31241	37.6166	37.62
	65 4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66 Hexachlorobenzene	284	Compound Not Detected.					
	68 Pentachlorophenol*	266	Compound Not Detected.					
*	71 Phenanthrene-d10	188	9.903	9.903	(1.000)	258185	40.0000	
	72 Phenanthrene	178	Compound Not Detected.					
	73 Anthracene	178	Compound Not Detected.					
	78 Di-n-butylphthalate	149	10.774	10.774	(1.088)	790261	94.2525	94.25
	80 Fluoranthene*	202	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 148 Pyrene-d10	212	11.603	11.613	(0.866)	258830	37.6095	37.61
81 Pyrene	202	Compound Not Detected.					
85 Butyl benzyl phthalate	149	Compound Not Detected.					
88 Benzo(a)Anthracene	228	Compound Not Detected.					
* 90 Chrysene-d12	240	13.396	13.395	(1.000)	224197	40.0000	
89 3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91 Chrysene	228	Compound Not Detected.					
93 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
94 Di-n-octyl phthalate*	149	Compound Not Detected.					
95 Benzo(b)fluoranthene	252	Compound Not Detected.					
96 Benzo(k)fluoranthene	252	Compound Not Detected.					
98 Benzo(a)pyrene*	252	Compound Not Detected.					
* 99 Perylene-d12	264	15.820	15.831	(1.000)	171179	40.0000	
103 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105 Benzo(g,h,i)perylene	276	Compound Not Detected.					
$ 83 Fluoranthene-d10	212	11.344	11.344	(1.145)	70506	12.8144	12.81
$ 101 Benzo(a)pyrene-d12	264	15.675	15.686	(0.991)	41447	11.4065	11.41

Report Date: 10-Jul-2009 14:42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070919.d
Lab Smp Id: 0906709B-06A
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 09-JUL-2009
Calibration Time: 15:37

Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	97401	48700	194802	103512	6.27
27 Naphthalene-d8	223170	111585	446340	257159	15.23
47 Acenaphthene-d10	126615	63308	253230	142929	12.88
71 Phenanthrene-d10	238582	119291	477164	258185	8.22
90 Chrysene-d12	205561	102780	411122	224197	9.07
99 Perylene-d12	169872	84936	339744	171179	0.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
99 Perylene-d12	15.83	15.33	16.33	15.82	-0.06

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

Report Date: 10-Jul-2009 14:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 09jul09a
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 0906709B-06A
Level: LOW
Operator: rn
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: PAH100.spk
Quant Type: ISTD
Sublist File: TO13+fs.sub
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	39.65	79.30	50-150
$ 2 Phenol-d5	50.00	41.22	82.44	50-150
$ 17 Nitrobenzene-d5	50.00	38.48	76.97	50-150
$ 147 Fluorene-d10	50.00	37.52	75.03	60-120
$ 62 2,4,6-Tribromophen	50.00	37.62	75.23	50-150
$ 148 Pyrene-d10	50.00	37.61	75.22	60-120
$ 83 Fluoranthene-d10	10.00	12.81	128.14	50-150
$ 101 Benzo(a)pyrene-d12	10.00	11.41	114.07	50-150

Data File: /chem/msdv.i/09jul09a.b/v070919.d

Date : 09-JUL-2009 20:11

Client ID:

Sample Info: ;0906709B-06A;

Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

0042

Data File: /chem/msdv.i/09jul09a.b/v070919.d

Date : 09-JUL-2009 20:11

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-06A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 6.803 ug

Data File: /chem/msdv.i/09jul09a.b/v070919.d

Date : 09-JUL-2009 20:11

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-06A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 7.548 ug

Data File: /chem/msdv.i/09jul09a.b/v070919.d

Date : 09-JUL-2009 20:11

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-06A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

145 1-Methylnaphthalene

Concentration: 2.723 ug

Data File: /chem/msdv.i/09jul09a.b/v070919.d

Date : 09-JUL-2009 20:11

Client ID:

Instrument: msdv.i

Sample Info: ;0906709B-06A;

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 94.25 ug

QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0906709B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070913**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 05:27 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.062	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.062	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.062	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.062	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.062	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	Not Detected	Not Detected
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.062	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.062	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0906709B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070913**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 05:27 PM**
		Date of Extraction: 7/1/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.062	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.062	Not Detected	Not Detected
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.062	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.062	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.062	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 80000

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	50-150
Phenol-d5	73	50-150
Nitrobenzene-d5	65	50-150
2,4,6-Tribromophenol	46 Q	50-150
Fluorene-d10	61	60-120
Pyrene-d10	60	60-120

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0906709B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v070913	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/9/09 05:27 PM
		Date of Extraction: 7/1/09

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/09jul09a.b/v070913.d
Lab Smp Id: 0906708B/709B-Blank Client Smp ID: Lab Blank
Inj Date : 09-JUL-2009 17:27
Operator : rn Inst ID: msdv.i
Smp Info : ;0906708B/709B-Blank;Lab Blank
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/09jul09a.b/bnap0708.m
Meth Date : 09-Jul-2009 16:15 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO13.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1 2-Fluorophenol	112	2.856	2.856	(0.670)	87708	34.2672	34.27
$ 2 Phenol-d5	99	3.934	3.944	(0.922)	107996	36.4093	36.41
3 Phenol*	94	Compound Not Detected.					
4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5 2-Chlorophenol	128	Compound Not Detected.					
6 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7 1,4-Dichlorobenzene-d4	150	4.266	4.266	(1.000)	99814	40.0000	
9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
11 1,2-Dichlorobenzene	146	Compound Not Detected.					
12 2-Methylphenol	108	Compound Not Detected.					
13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14 4-Methylphenol	108	Compound Not Detected.					
15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	16 Hexachloroethane	117	Compound Not Detected.					
$	17 Nitrobenzene-d5	82	5.033	5.032	(0.850)	123266	32.3038	32.30
	18 Nitrobenzene	77	Compound Not Detected.					
	19 Isophorone	82	Compound Not Detected.					
	20 2-Nitrophenol*	139	Compound Not Detected.					
	21 2,4-Dimethylphenol	122	Compound Not Detected.					
	23 bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic Acid	122	Compound Not Detected.					
	25 2,4-Dichlorophenol*	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	5.924	5.924	(1.000)	257075	40.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene*	225	Compound Not Detected.					
	32 4-Chloro-3-Methylphenol*	107	Compound Not Detected.					
	33 2-Methylnaphthalene	142	Compound Not Detected.					
	145 1-Methylnaphthalene	142	Compound Not Detected.					
	35 Hexachlorocyclopentadiene**	237	Compound Not Detected.					
	36 2,4,6-Trichlorophenol*	196	Compound Not Detected.					
	37 2,4,5-Trichlorophenol	196	Compound Not Detected.					
	39 2-Chloronaphthalene	162	Compound Not Detected.					
	40 2-Nitroaniline	65	Compound Not Detected.					
	42 Dimethylphthalate	163	Compound Not Detected.					
	45 Acenaphthylene	152	Compound Not Detected.					
	44 2,6-Dinitrotoluene	165	Compound Not Detected.					
	46 3-Nitroaniline	138	Compound Not Detected.					
*	47 Acenaphthene-d10	164	8.142	8.141	(1.000)	151328	40.0000	
	48 Acenaphthene*	154	Compound Not Detected.					
	49 2,4-Dinitrophenol**	184	Compound Not Detected.					
	50 4-Nitrophenol**	109	Compound Not Detected.					
	51 Dibenzofuran	168	Compound Not Detected.					
	52 2,4-Dinitrotoluene	165	Compound Not Detected.					
$	147 Fluorene-d10	176	8.753	8.763	(1.075)	167606	30.4274	30.43
	56 Diethylphthalate	149	Compound Not Detected.					
	57 Fluorene	166	Compound Not Detected.					
	58 4-Chlorophenyl phenyl ether	204	Compound Not Detected.					
	59 4-Nitroaniline	138	Compound Not Detected.					
	60 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	61 N-nitrosodiphenylamine*	169	Compound Not Detected.					
$	62 2,4,6-Tribromophenol	330	9.116	9.115	(1.120)	20429	23.2329	23.23(R)
	65 4-Bromophenyl phenyl ether	248	Compound Not Detected.					
	66 Hexachlorobenzene	284	Compound Not Detected.					
	68 Pentachlorophenol*	266	Compound Not Detected.					
*	71 Phenanthrene-d10	188	9.903	9.903	(1.000)	285405	40.0000	
	72 Phenanthrene	178	Compound Not Detected.					
	73 Anthracene	178	Compound Not Detected.					
	78 Di-n-butylphthalate	149	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
80 Fluoranthene*	202	Compound Not Detected.					
$ 148 Pyrene-d10	212	11.603	11.613	(0.866)	231798	30.2708	30.27
81 Pyrene	202	Compound Not Detected.					
85 Butyl benzyl phthalate	149	Compound Not Detected.					
88 Benzo(a)Anthracene	228	Compound Not Detected.					
* 90 Chrysene-d12	240	13.396	13.395	(1.000)	249459	40.0000	
89 3 3'-Dichlorobenzidine	252	Compound Not Detected.					
91 Chrysene	228	Compound Not Detected.					
93 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.					
94 Di-n-octyl phthalate*	149	Compound Not Detected.					
95 Benzo(b)fluoranthene	252	Compound Not Detected.					
96 Benzo(k)fluoranthene	252	Compound Not Detected.					
98 Benzo(a)pyrene*	252	Compound Not Detected.					
* 99 Perylene-d12	264	15.821	15.831	(1.000)	198659	40.0000	
103 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
104 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
105 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 10-Jul-2009 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070913.d
Lab Smp Id: 0906708B/709B-Blank
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 09-JUL-2009
Calibration Time: 15:37
Client Smp ID: Lab Blank
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	97401	48700	194802	99814	2.48
27 Naphthalene-d8	223170	111585	446340	257075	15.19
47 Acenaphthene-d10	126615	63308	253230	151328	19.52
71 Phenanthrene-d10	238582	119291	477164	285405	19.63
90 Chrysene-d12	205561	102780	411122	249459	21.36
99 Perylene-d12	169872	84936	339744	198659	16.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
99 Perylene-d12	15.83	15.33	16.33	15.82	-0.06

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

Report Date: 10-Jul-2009 09:29

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 09jul09a
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 0906708B/709B-Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: PAH100.spk
Quant Type: ISTD
Sublist File: TO13.sub
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	34.27	68.53	50-150
$ 2 Phenol-d5	50.00	36.41	72.82	50-150
$ 17 Nitrobenzene-d5	50.00	32.30	64.61	50-150
$ 147 Fluorene-d10	50.00	30.43	60.85	60-120
$ 62 2,4,6-Tribromophen	50.00	23.23	46.47*	50-150
$ 148 Pyrene-d10	50.00	30.27	60.54	60-120

0056

Data File: /chem/msdv.i/09jul09a.b/v070913.d
Date : 09-JUL-2009 17:27
Client ID: Lab Blank
Sample Info: :0906708B/709B-Blank:Lab Blank
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0906709B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		2,4,6-Tribromophenol	#	Pyrene-d10	#	2-Fluorophenol	#	Nitrobenzene-d5	#	TOTAL OUT
01	OFF03062509	71		74		76		73		0
02	OFF03062509 Lab Duplicate	82		82		86		82		0
03	OFF04062509	75		75		79		77		0
04	Lab Blank	46	*	60		68		65		1
05	LCS	52		65		65		68		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

2,4,6-Tribromophenol 50 - 150
Pyrene-d10 60 - 120
2-Fluorophenol 50 - 150
Nitrobenzene-d5 50 - 150

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0906709B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Phenol-d5	#	Fluorene-d10	#	Fluoranthene-d10	#	Benzo(a)pyrene-d12	#	TOTAL OUT
01	OFF03062509	79		72		120		108		0
02	OFF03062509 Lab Duplicate	91		79		140		121		0
03	OFF04062509	82		75		128		114		0
04	Lab Blank	73		61						0
05	LCS	69		66						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

Phenol-d5 50 - 150
Fluorene-d10 60 - 120
Fluoranthene-d10 50 - 150
Benzo(a)pyrene-d12 50 - 150

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 0906709B

Lab File ID: v070909.d

Date Analyzed: 07/09/2009

Instrument ID: msdv.i

Time Analyzed: 03:37 PM

		Naphthalene-d8 Area	#	RT	#	Acenaphthene-d12 Area	#	RT	#	Phenanthrene-d10 Area	#	RT	#
	24-HOUR STD	223170		5.92		126615		8.14		238582		9.9	
	UPPER LIMIT	446340		06.25		253230		08.47		477164		10.23	
	LOWER LIMIT	111585		05.59		63308		07.81		119291		09.57	
	CLIENT SAMPLE NO												
01	OFF03062509	257816		5.92		145920		8.14		263927		9.9	
02	OFF03062509 Lab Duplicate	224158		5.92		126914		8.14		225407		9.9	
03	OFF04062509	257159		5.92		142929		8.14		258185		9.9	
04	Lab Blank	257075		5.92		151328		8.14		285405		9.9	
05	LCS	260993		5.92		151616		8.14		277571		9.9	
06													
07													
08													
09													
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20													
21													
22													

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 0906709B

Lab File ID: v070909.d

Date Analyzed: 07/09/2009

Instrument ID: msdv.i

Time Analyzed: 03:37 PM

		Perylene-d12 Area	#	RT	#	Chrysene-d12 Area	#	RT	#	1,4-Dichlorobenzene-d4 Area	#	RT	#
	24-HOUR STD	169872		15.83		205561		13.4		97401		4.27	
	UPPER LIMIT	339744		16.16		411122		13.73		194802		04.60	
	LOWER LIMIT	84936		15.50		102780		13.07		48700		03.94	
	CLIENT SAMPLE NO												
01	OFF03062509	172341		15.82		219894		13.4		101430		4.27	
02	OFF03062509 Lab Duplicate	151534		15.82		194141		13.4		88222		4.27	
03	OFF04062509	171179		15.82		224197		13.4		103512		4.27	
04	Lab Blank	198659		15.82		249459		13.4		99814		4.27	
05	LCS	193708		15.82		243269		13.4		112355		4.27	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: v070918.d & v070917.d

Lab Sample ID: 03A & 03AA

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 7/9/09 & 7/9/09

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0	
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0	
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0	
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0	
95-95-4	2,4,5-Trichlorophenol	ND	U	ND	U	0	
88-06-2	2,4,6-Trichlorophenol	ND	U	ND	U	0	
120-83-2	2,4-Dichlorophenol	ND	U	ND	U	0	
105-67-9	2,4-Dimethylphenol	ND	U	ND	U	0	
51-28-5	2,4-Dinitrophenol	ND	U	ND	U	0	
121-14-2	2,4-Dinitrotoluene	ND	U	ND	U	0	
606-20-2	2,6-Dinitrotoluene	ND	U	ND	U	0	
91-58-7	2-Chloronaphthalene	ND	U	ND	U	0	
95-57-8	2-Chlorophenol	ND	U	ND	U	0	
91-57-6	2-Methylnaphthalene	1.724		1.858		7.5	Y
95-48-7	2-Methylphenol (o-Cresol)	ND	U	ND	U	0	
88-74-4	2-Nitroaniline	ND	U	ND	U	0	
88-75-5	2-Nitrophenol	ND	U	ND	U	0	
91-94-1	3,3'-Dichlorobenzidine	ND	U	ND	U	0	
99-09-2	3-Nitroaniline	ND	U	ND	U	0	
534-52-1	4,6-Dinitro-2-methylphenol	ND	U	ND	U	0	
101-55-3	4-Bromophenyl-phenyl Ether	ND	U	ND	U	0	
59-50-7	4-Chloro-3-methylphenol	ND	U	ND	U	0	
106-47-8	4-Chloroaniline	ND	U	ND	U	0	
7005-72-3	4-Chlorophenyl-phenyl Ether	ND	U	ND	U	0	
106-44-5	4-Methylphenol/3-Methylphenol	ND	U	ND	U	0	
100-01-6	4-Nitroaniline	ND	U	ND	U	0	
100-02-7	4-Nitrophenol	ND	U	ND	U	0	
83-32-9	Acenaphthene	ND	U	ND	U	0	
208-96-8	Acenaphthylene	ND	U	ND	U	0	
120-12-7	Anthracene	ND	U	ND	U	0	
56-55-3	Benzo(a)anthracene	ND	U	ND	U	0	
50-32-8	Benzo(a)pyrene	ND	U	ND	U	0	
205-99-2	Benzo(b)fluoranthene	ND	U	ND	U	0	
191-24-2	Benzo(g,h,i)perylene	ND	U	ND	U	0	
207-08-9	Benzo(k)fluoranthene	ND	U	ND	U	0	
65-85-0	Benzoic Acid	ND	U	ND	U	0	
111-91-1	bis(2-Chloroethoxy) Methane	ND	U	ND	U	0	
111-44-4	bis(2-Chloroethyl) Ether	ND	U	ND	U	0	
108-60-1	bis(2-Chloroisopropyl) Ether	ND	U	ND	U	0	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	U	5.27		-->200<--	Y
85-68-7	Butylbenzylphthalate	ND	U	ND	U	0	
218-01-9	Chrysene	ND	U	ND	U	0	
53-70-3	Dibenz(a,h)anthracene	ND	U	ND	U	0	
132-64-9	Dibenzofuran	ND	U	ND	U	0	
84-66-2	Diethylphthalate	ND	U	ND	U	0	
131-11-3	Dimethylphthalate	ND	U	ND	U	0	

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: v070918.d & v070917.d

Lab Sample ID: 03A & 03AA

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 7/9/09 & 7/9/09

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
84-74-2	di-n-Butylphthalate	39.38		45.24		14	
117-84-0	Di-n-Octylphthalate	ND	U	ND	U	0	
206-44-0	Fluoranthene	ND	U	ND	U	0	
86-73-7	Fluorene	ND	U	ND	U	0	
118-74-1	Hexachlorobenzene	ND	U	ND	U	0	
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0	
77-47-4	Hexachlorocyclopentadiene	ND	U	ND	U	0	
67-72-1	Hexachloroethane	ND	U	ND	U	0	
193-39-5	Indeno(1,2,3-c,d)pyrene	ND	U	ND	U	0	
78-59-1	Isophorone	ND	U	ND	U	0	
91-20-3	Naphthalene	1.926		2.259		16	Y
98-95-3	Nitrobenzene	ND	U	ND	U	0	
621-64-7	N-Nitroso-di-n-propylamine	ND	U	ND	U	0	
86-30-6	N-Nitrosodiphenylamine	ND	U	ND	U	0	
87-86-5	Pentachlorophenol	ND	U	ND	U	0	
85-01-8	Phenanthrene	ND	U	ND	U	0	
108-95-2	Phenol	ND	U	ND	U	0	
129-00-0	Pyrene	ND	U	ND	U	0	

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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdv.i/08jul09.b/v070804.d
Level 2: /chem/msdv.i/08jul09.b/v070805.d
Level 3: /chem/msdv.i/08jul09.b/v070806.d
Level 4: /chem/msdv.i/08jul09.b/v070807.d
Level 5: /chem/msdv.i/08jul09.b/v070808.d
Level 6: /chem/msdv.i/08jul09.b/v070809.d
Level 7: /chem/msdv.i/08jul09.b/v070810.d
Level 8: /chem/msdv.i/08jul09.b/v070811.d
Level 9: /chem/msdv.i/08jul09.b/v070812.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
3 Phenol*	+++++	1.35601	1.35134	1.27761	1.20601	1.23292		
	1.11003	1.10700	0.94652				1.19843	11.604
4 bis(2-Chloroethyl)ether	1.07293	1.13136	1.08704	1.05225	0.97051	0.97807		
	0.88689	0.90339	0.79716				0.98662	11.097
5 2-Chlorophenol	+++++	0.96027	0.95801	0.93354	0.85972	0.86158		
	0.79031	0.79751	0.71689				0.85973	10.246
6 1,3-Dichlorobenzene	1.06669	1.12510	1.07333	1.02594	0.94355	0.93336		
	0.85601	0.83285	0.75459				0.95683	13.111
9 1,4-Dichlorobenzene*	1.18576	1.16498	1.11004	1.05881	0.95881	0.95622		
	0.88074	0.87248	0.77398				0.99576	14.305
10 Benzyl Alcohol	0.56749	0.58977	0.62986	0.60277	0.56820	0.57398		
	0.55483	0.53985	0.51349				0.57114	6.000
11 1,2-Dichlorobenzene	1.05919	1.05415	1.03996	0.96712	0.89664	0.88250		
	0.80590	0.80415	0.69912				0.91208	14.009

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
12 2-Methylphenol	+++++	0.91192	0.89859	0.88190	0.79285	0.80539		
	0.74993	0.76572	0.65461				0.80761	10.814
13 bis(2-Chloroisopropyl)ether	1.78697	1.75987	1.70094	1.60105	1.46005	1.46495		
	1.31727	1.32301	1.13232				1.50516	14.911
14 4-Methylphenol	+++++	0.93857	0.94120	0.91989	0.83599	0.85637		
	0.79164	0.77584	0.70301				0.84531	10.159
15 N-Nitrosodipropylamine**	0.78274	0.85642	0.83654	0.83129	0.75370	0.77077		
	0.70475	0.70420	0.59612				0.75961	10.809
16 Hexachloroethane	0.47547	0.47189	0.46086	0.44581	0.40406	0.40610		
	0.36736	0.36035	0.31644				0.41204	13.577
18 Nitrobenzene	0.47938	0.53133	0.53944	0.53355	0.52332	0.53658		
	0.52712	0.58006	0.54133				0.53246	4.853
19 Isophorone	0.79792	0.90442	0.88180	0.92071	0.90658	0.91735		
	0.91567	0.96149	1.00426				0.91225	6.139
20 2-Nitrophenol*	+++++	0.16749	0.18275	0.20274	0.20323	0.20948		
	0.21380	0.22447	0.22350				0.20343	9.670
21 2,4-Dimethylphenol	+++++	0.31980	0.32378	0.32584	0.32861	0.33801		
	0.33474	0.33592	0.36536				0.33401	4.242
22 N-nitrosodimethylamine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
23 bis(2-Chloroethoxy)methane	0.50272	0.53186	0.52385	0.53415	0.51631	0.51799		
	0.51855	0.55369	0.55271				0.52798	3.216
24 Benzoic Acid	+++++	+++++	+++++	0.18326	0.19034	0.20159		
	0.21314	0.23330	0.25230				0.21232	12.429
25 2,4-Dichlorophenol*	+++++	0.29632	0.29733	0.30365	0.30033	0.30393		
	0.30207	0.31376	0.32930				0.30584	3.558
26 1,2,4-Trichlorobenzene	0.40376	0.38644	0.37392	0.38193	0.35559	0.36235		
	0.35582	0.37597	0.37835				0.37490	4.136
28 Naphthalene	1.17240	1.17609	1.14054	1.13011	1.08449	1.09862		
	1.10534	1.14349	1.11493				1.12956	2.818
29 4-Chloroaniline	+++++	+++++	0.48046	0.48555	0.46644	0.47870		
	0.47345	0.52805	0.49423				0.48670	4.158
30 Hexachlorobutadiene*	0.18864	0.19394	0.19140	0.19090	0.18523	0.18710		
	0.18440	0.18905	0.19502				0.18952	1.928
150 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
32 4-Chloro-3-Methylphenol*	+++++	0.32453	0.33409	0.36107	0.35125	0.36934		
	0.35572	0.39709	0.41617				0.36366	8.403
33 2-Methylnaphthalene	0.75143	0.78315	0.73897	0.76369	0.73629	0.75469		
	0.72793	0.75305	0.76708				0.75292	2.267

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
145 1-Methylnaphthalene	0.75507	0.75893	0.73069	0.73882	0.71380	0.72112		
	0.71123	0.74838	0.72471				0.73364	2.402
35 Hexachlorocyclopentadiene**	+++++	+++++	+++++	0.28998	0.31197	0.33311		
	0.33901	0.36415	0.37973				0.33633	9.787
36 2,4,6-Trichlorophenol*	+++++	0.36976	0.39018	0.38792	0.40467	0.41080		
	0.41210	0.41661	0.42660				0.40233	4.585
37 2,4,5-Trichlorophenol	+++++	0.39410	0.39638	0.39326	0.39706	0.41123		
	0.41175	0.42564	0.45061				0.41000	4.865
39 2-Chloronaphthalene	1.30936	1.35203	1.33332	1.25639	1.24055	1.28156		
	1.24409	1.32096	1.28656				1.29165	3.097
40 2-Nitroaniline	+++++	0.42949	0.48218	0.50655	0.51155	0.52305		
	0.54674	0.56994	0.55895				0.51606	8.815
41 Aniline	1.60378	1.63492	1.59582	1.56530	1.45723	1.48536		
	1.35626	1.35306	1.25210				1.47820	9.073
42 Dimethylphthalate	+++++	1.51461	1.54197	1.47583	1.42408	1.45998		
	1.42613	1.43484	1.42226				1.46246	3.101
43 Bicyclo[2.2.1]hepta-2,5-diene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
44 2,6-Dinitrotoluene	+++++	0.32753	0.34140	0.34465	0.33747	0.34401		
	0.35734	0.34966	0.39769				0.34997	6.040

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Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
45 Acenaphthylene	1.96114	2.04178	2.09494	2.01970	2.04419	2.08016		
	1.97495	1.99727	2.08738				2.03350	2.409
46 3-Nitroaniline	+++++	+++++	0.35525	0.37416	0.37846	0.38983		
	0.40099	0.38373	0.43011				0.38750	6.068
149 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
48 Acenaphthene*	1.28252	1.29179	1.29981	1.25397	1.18503	1.24467		
	1.20480	1.26627	1.22428				1.25035	3.164
49 2,4-Dinitrophenol**	+++++	+++++	+++++	0.09657	0.14621	0.15948		
	0.19893	0.22736	0.24482				0.17890	30.942
50 4-Nitrophenol**	+++++	+++++	+++++	0.22969	0.25047	0.24117		
	0.26640	0.26088	0.29962				0.25804	9.417
51 Dibenzofuran	1.78363	1.86821	1.87702	1.78082	1.73249	1.77069		
	1.71982	1.79105	1.77429				1.78867	2.975
52 2,4-Dinitrotoluene	+++++	0.39997	0.44315	0.45837	0.45300	0.47096		
	0.48459	0.49042	0.49487				0.46192	6.735
53 1-Chloro-3,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
54 2-Methyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
55 N,N-Dimethyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
56 Diethylphthalate	+++++	1.63133	1.59704	1.52187	1.52505	1.58558			
	1.51850	1.53905	1.55927				1.55971	2.649	
57 Fluorene	1.51127	1.58322	1.53775	1.45839	1.42788	1.46397			
	1.44654	1.42329	1.50678				1.48434	3.635	
58 4-Chlorophenyl phenyl ether	0.73169	0.70917	0.70987	0.67744	0.68538	0.66744			
	0.65391	0.65166	0.69997				0.68739	3.984	
151 2-Methylthiobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
59 4-Nitroaniline	+++++	+++++	0.37242	0.38133	0.37577	0.38815			
	0.38489	0.40399	0.43562				0.39174	5.585	
155 2-Aminobenothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
60 4,6-Dinitro-2-methylphenol	+++++	+++++	0.07534	0.10370	0.12206	0.12717			
	0.14246	0.15398	0.15574				0.12578	22.994	
61 N-nitrosodiphenylamine*	+++++	+++++	0.70366	0.68102	0.66199	0.66173			
	0.65266	0.67517	0.69881				0.67644	2.865	
152 2-Hydroxybenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
63 2,4-Dimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
64 N,N,4-Trimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
65 4-Bromophenyl phenyl ether	0.18910	0.20079	0.20791	0.19965	0.19587	0.19851		
	0.19628	0.19975	0.20168				0.19884	2.551
66 Hexachlorobenzene	0.21582	0.22942	0.23125	0.22054	0.21422	0.21176		
	0.20836	0.21602	0.21392				0.21792	3.569
67 Cumene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
144 Carbazole	2.48728	2.82999	2.75089	2.63034	2.40111	2.42353		
	2.31689	2.21003	1.98043				2.44783	10.882
68 Pentachlorophenol*	+++++	+++++	+++++	0.10141	0.11290	0.11650		
	0.12469	0.13914	0.13938				0.12234	12.339
69 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
70 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
72 Phenanthrene	1.25806	1.24701	1.23688	1.15537	1.13750	1.15146		
	1.13615	1.13728	1.18816				1.18310	4.307

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	___ RRF	% RSD
	80.000 Level 7	100.000 Level 8	160.000 Level 9					
73 Anthracene	1.07797	1.17489	1.19733	1.15845	1.15854	1.14914		
	1.13625	1.17446	1.23640				1.16260	3.727
74 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
76 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
78 Di-n-butylphthalate	+++++	1.19087	1.25018	1.26728	1.29330	1.32043		
	1.33768	1.37881	1.35339				1.29899	4.728
153 2-Mercaptobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
154 2-Morpholinothiobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
79 Lindane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
80 Fluoranthene*	1.06703	1.16806	1.18247	1.12829	1.14558	1.13567		
	1.12025	1.11776	1.16690				1.13689	3.051
81 Pyrene	1.47175	1.58017	1.50133	1.46940	1.39352	1.43315		
	1.38801	1.42842	1.41069				1.45294	4.192
84 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-

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	80.000 Level 7	100.000 Level 8	160.000 Level 9					
85 Butyl benzyl phthalate	+++++	0.52657	0.58319	0.61763	0.65334	0.67045		
	0.69750	0.72680	0.76634				0.65523	11.912
86 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
87 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
88 Benzo(a)Anthracene	1.09392	1.18874	1.19354	1.20618	1.20231	1.21976		
	1.22411	1.27728	1.29598				1.21131	4.749
89 3 3'-Dichlorobenzidine	+++++	+++++	+++++	0.42952	0.43853	0.45556		
	0.44618	0.47614	0.48327				0.45487	4.658
91 Chrysene	1.79464	1.44126	1.29251	1.24613	1.17612	1.20003		
	1.17429	1.21258	1.24273				1.30892	15.254
92 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
93 bis(2-ethylhexyl)Phthalate	+++++	0.76094	0.81617	0.85521	0.88953	0.92044		
	0.95065	1.01769	1.03301				0.90545	10.458
94 Di-n-octyl phthalate*	+++++	1.23154	1.43596	1.65492	1.83244	1.82840		
	1.96559	2.12209	2.13007				1.77512	17.988
95 Benzo(b)fluoranthene	1.20116	1.40463	1.41705	1.57447	1.50363	1.48053		
	1.55495	1.74384	1.59246				1.49697	10.080

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	80.000 Level 7	100.000 Level 8	160.000 Level 9					
96 Benzo(k)fluoranthene	1.52428	1.70748	1.81312	1.61068	1.65850	1.67785		
	1.58328	1.50445	1.67498				1.63940	5.841
97 Benzo(e)pyrene	1.21473	1.41103	1.42832	1.44216	1.42640	1.42523		
	1.39655	1.46908	1.48688				1.41115	5.578
98 Benzo(a)pyrene*	1.19301	1.46567	1.49762	1.47439	1.48319	1.47541		
	1.47773	1.54484	1.56434				1.46402	7.324
103 Indeno(1,2,3-cd)pyrene	0.92962	1.02839	1.09194	1.23597	1.25878	1.23206		
	1.26398	1.36231	1.48227				1.20948	13.998
104 Dibenzo(a,h)anthracene	0.92024	1.16701	1.22909	1.09256	1.14422	1.15705		
	1.23378	1.37565	1.32557				1.18280	11.256
105 Benzo(g,h,i)perylene	1.17548	1.33027	1.37669	1.38072	1.41974	1.39579		
	1.39713	1.46100	1.48849				1.38059	6.517
106 3,3'-Dimethoxybenzidine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
139 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
140 Perylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
143 Coronene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-

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	80.000 Level 7	100.000 Level 8	160.000 Level 9						
141 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 1 2-Fluorophenol	+++++	1.20124	1.11339	1.09074	1.00393	1.03325			
	0.94890	0.96130	0.85301				1.02572	10.625	
$ 2 Phenol-d5	+++++	1.41592	1.30585	1.27416	1.16351	1.18149			
	1.08580	1.10335	0.97934				1.18868	11.685	
$ 8 13C-Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 17 Nitrobenzene-d5	0.56907	0.58345	0.57166	0.58603	0.57735	0.59183			
	0.58395	0.63593	0.64431				0.59373	4.600	
$ 31 d4-1,4-dibromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 146 2-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 34 1-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 38 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 62 2,4,6-Tribromophenol	+++++	0.22640	0.22046	0.22361	0.22926	0.23773			
	0.23735	0.23914	0.24545				0.23243	3.760	

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	80.000 Level 7	100.000 Level 8	160.000 Level 9						
$ 75 13c-Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 77 d10-Anthracene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 82 Terphenyl-d14	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 83 Fluoranthene-d10	0.75802	0.86983	0.88220	0.86314	0.86346	0.87789			
	+++++	+++++	+++++				0.85242	5.499	
$ 100 Benzo(e)pyrene-d12	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 101 Benzo(a)pyrene-d12	0.62699	0.83374	0.88103	0.90646	0.92862	0.91763			
	+++++	+++++	+++++				0.84908	13.418	
$ 102 d12-Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 142 1,3,5-Trichlorobenzene-d3	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
$ 147 Fluorene-d10	1.60216	1.52068	1.47597	1.40524	1.37624	1.44124			
	1.40893	1.42234	1.45133				1.45602	4.763	
$ 148 Pyrene-d10	1.36818	1.31178	1.25080	1.19854	1.16337	1.18524			
	1.16799	1.19108	1.21371				1.22786	5.703	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.77475738                 |
|Maximun Average %RSD    =         15                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/msdv.i/08jul09.b/bnap0708.m
Start Cal Date: 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
08-JUL-2009 14:51	1ng	/chem/msdv.i/08jul09.b/v070804.d
Cal Level: 2 , Cal Amount: 5.00000		
08-JUL-2009 15:18	5ng	/chem/msdv.i/08jul09.b/v070805.d
Cal Level: 3 , Cal Amount: 10.00000		
08-JUL-2009 15:45	10ng	/chem/msdv.i/08jul09.b/v070806.d
Cal Level: 4 , Cal Amount: 20.00000		
08-JUL-2009 16:12	20ng	/chem/msdv.i/08jul09.b/v070807.d
Cal Level: 5 , Cal Amount: 40.00000		
08-JUL-2009 16:40	50ng	/chem/msdv.i/08jul09.b/v070808.d
Cal Level: 6 , Cal Amount: 50.00000		
08-JUL-2009 17:07	50ccv	/chem/msdv.i/08jul09.b/v070809.d
Cal Level: 7 , Cal Amount: 80.00000		
08-JUL-2009 17:34	160ng	/chem/msdv.i/08jul09.b/v070810.d
Cal Level: 8 , Cal Amount: 100.00000		
08-JUL-2009 18:02	160ng	/chem/msdv.i/08jul09.b/v070811.d

```
+-------------------+-----------------+----------------------------------------+

+-------------------+-----------------+----------------------------------------+
| Cal Level: 9 , Cal Amount: 160.00000                                         |
+==============================================================================+
|08-JUL-2009 18:29 |160ng            |/chem/msdv.i/08jul09.b/v070812.d        |
+-------------------+-----------------+----------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6
+-------------------+-----------------+----------------------------------------+
| Ccal Level: 6 , Ccal Amount: 50.00                                           |
+==============================================================================+
|08-JUL-2009 17:07 |50ccv            |/chem/msdv.i/08jul09.b/v070809a.d       |
+-------------------+-----------------+----------------------------------------+
| Ccal Level: 6 , Ccal Amount: 50.00                                           |
+==============================================================================+
|08-JUL-2009 17:07 |50ccv            |/chem/msdv.i/08jul09.b/v070809.d        |
+-------------------+-----------------+----------------------------------------+
```

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Second source : V070813

Calibration File Names:
Level 1: /chem/msdv.i/08jul09.b/v070804.d
Level 2: /chem/msdv.i/08jul09.b/v070805.d
Level 3: /chem/msdv.i/08jul09.b/v070806.d
Level 4: /chem/msdv.i/08jul09.b/v070807.d
Level 5: /chem/msdv.i/08jul09.b/v070808.d
Level 6: /chem/msdv.i/08jul09.b/v070809.d
Level 7: /chem/msdv.i/08jul09.b/v070810.d
Level 8: /chem/msdv.i/08jul09.b/v070811.d
Level 9: /chem/msdv.i/08jul09.b/v070812.d

7/9/09

Based on 1ul injection in $MeCl_2$.

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
unit in ug/mL or ng on column	80.000 Level 7	100.000 Level 8	160.000 Level 9						
3 Phenol*	+++++	1.35601	1.35134	1.27761	1.20601	1.23292			ccc
	1.11003	1.10700	0.94652				1.19843	11.604	
4 bis(2-Chloroethyl)ether	1.07293	1.13136	1.08704	1.05225	0.97051	0.97807			
	0.88689	0.90339	0.79716				0.98662	11.097	7/9/09
5 2-Chlorophenol	+++++	0.96027	0.95801	0.93354	0.85972	0.86158			
	0.79031	0.79751	0.71689				0.85973	10.246	
6 1,3-Dichlorobenzene	1.06669	1.12510	1.07333	1.02594	0.94355	0.93336			
	0.85601	0.83285	0.75459				0.95683	13.111	
9 1,4-Dichlorobenzene*	1.18576	1.16498	1.11004	1.05881	0.95881	0.95622			
	0.88074	0.87248	0.77398				0.99576	14.305	ccc
10 Benzyl Alcohol	0.56749	0.58977	0.62986	0.60277	0.56820	0.57398			
	0.55483	0.53985	0.51349				0.57114	6.000	
11 1,2-Dichlorobenzene	1.05919	1.05415	1.03996	0.96712	0.89664	0.88250			
	0.80590	0.80415	0.69912				0.91208	14.009	

Report Date: 09-Jul-2009 09:42

Calibration History

Method : /chem/msdv.i/08jul09.b/bnap0708.m
Start Cal Date: 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29

DFTPP : V070802.d.

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
08-JUL-2009 14:51	1ng	/chem/msdv.i/08jul09.b/v070804.d
Cal Level: 2 , Cal Amount: 5.00000		
08-JUL-2009 15:18	5ng	/chem/msdv.i/08jul09.b/v070805.d
Cal Level: 3 , Cal Amount: 10.00000		
08-JUL-2009 15:45	10ng	/chem/msdv.i/08jul09.b/v070806.d
Cal Level: 4 , Cal Amount: 20.00000		
08-JUL-2009 16:12	20ng	/chem/msdv.i/08jul09.b/v070807.d
Cal Level: 5 , Cal Amount: 40.00000		
08-JUL-2009 16:40	50ng	/chem/msdv.i/08jul09.b/v070808.d
Cal Level: 6 , Cal Amount: 50.00000		
08-JUL-2009 17:07	50ccv	/chem/msdv.i/08jul09.b/v070809.d
Cal Level: 7 , Cal Amount: 80.00000		
08-JUL-2009 17:34	160ng	/chem/msdv.i/08jul09.b/v070810.d
Cal Level: 8 , Cal Amount: 100.00000		
08-JUL-2009 18:02	160ng	/chem/msdv.i/08jul09.b/v070811.d

Cal Level: 9 , Cal Amount: 160.00000		
08-JUL-2009 18:29	160ng	/chem/msdv.i/08jul09.b/v070812.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.00		
08-JUL-2009 17:07	50ccv	/chem/msdv.i/08jul09.b/v070809a.d
Ccal Level: 6 , Ccal Amount: 50.00		
08-JUL-2009 17:07	50ccv	/chem/msdv.i/08jul09.b/v070809.d

MSD-V Run Log

@Air Toxics Ltd.

Logbook#: 1737

Method: TO13

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.88
68	Less than 2.00% of mass 69	0.72 (1.36)1
69	Less than 99.90% of mass 198	52.52
70	Less than 2.00% of mass 69	0.00 (0.00)1
127	40.00 – 60.00% of mass 198	54.14
197	Less than 1.00% of mass 198	0.68
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 30.00% of mass 198	22.58
365	Greater than 1.00% of mass 198	3.05
441	Present, but less than mass 443	10.30
442	40.00 - 100.00% of mass 198	70.86
443	17.00 - 23.00% of mass 442	13.43 (18.95)2

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

Instrument ID: MSD-V
DFTPP File ID: V070802
DFTPP Injection Date: 7/8/09
DFTPP Injection Time 1351

#	IS	Area Counts
1,4-Dichlorobenzene-d_4:		94232
Naphthalene-d_8:		209681
Acenaphthene-d_{10}:		114283
Phenanthrene-d_{10}:		221485
Chrysene-d_{12}:		186936
Perylene-d_{12}:		149026

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	V070801	DCM Wash	1	1.0	7/8/09	1335	RMN/W	
2	✓	02	1685-100-50	2			1351		0.58% Breakdown
3	✓	03	DCM Blank	3			1423		
4	✓	04	1685-169-1.0	4			1451		Level 1
5	✓	05	-5.0	5			1518		Level 2
6	✓	06	-10	6			1545		Level 3 RMN 7/9/09
7	✓	07	-20	7			1612		Level 4
8	✓	08	-40	8			1640		Level 5
9	✓	09	-50	9			1707		Level 6, CCV
10	✓	10	1685-168A-80	10			1734		Level 7: 1685-168A-80
11	✓	11	1685-168A-100	11			1802		Level 8: 1685-168A-100
12	✓	12	1685-160 -160 (RMN 7/9/09)	12			1829		Level 9: 1685-168-160
13	✓	13	1685-155-50	13			1856		LCS
14	✓	14	DCM Blank	14			1923		
15	✓	15	09060630B 09060631B - Blank	15			1957		
16	✓	16	-LCS	16			2018		
17	✓	17	09060830B-08A	17			2045		
18	✓	18	-06A	18			2112		
19	✓	19	09060631B-08A	19			2139		
20	✓	20	-06A	20			2206		
21	✓	21	09070778-Blank	21			2233		
22	✓	22	-LCS	22			2300		
23	✓	23	-05A	23			2328		

Calculation Check:

ng of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(145226)}{(94232)} \times \frac{(40.0)}{(1.19843)} = 51.44$ ✓

File ID: V070809
Compound: Phenol
Initials: RMN

...cont'd on pg. 198

RMNoonan 7/9/09

Signed Date

Rev 08/07

Before: Peak not integrated RM 7/8/09

File Security Edit Display Process Spectra Help

Sample: 1685-169-1.0 Type: SAMPLE Inj.Date: 08-JUL-2009 14:51

$+ 17 Nitrobenzene-d5
$+ 83 Fluoranthene-d
$+ 101 Benzo(a)pyrene
$+ 147 Fluorene-d10
$+ 148 Pyrene-d10
*+ 7 1,4-Dichlorobe
*+ 27 Naphthalene-d8
*+ 47 Acenaphthene-d
*+ 71 Phenanthrene-d
*+ 90 Chrysene-d12
*+ 99 Perylene-d12
+ 4 bis(2-Chloroet
+ 41 Aniline
+ 6 1,3-Dichlorobe
+ 9 1,4-Dichlorobe
+ 10 Benzyl Alcohol
+ 11 1,2-Dichlorobe
+ 13 bis(2-Chloros
+ 15 N-Nitrosodipro
+ 16 Hexachloroetha
+ 18 Nitrobenzene
+ 19 Isophorone
23 bis(2-Chloroet
+ 26 1,2,4-Trichlor
+ 28 Naphthalene

v070804.d
v070805.d
v070805.d

Hit# RT(min) Response Amount Conc Ratio Flags Report:

bis(2-Chloroethoxy)methane Undetected (Expected RT: 5.727)

Assign Peak ...

Compound: bis(2-Chloroethoxy)methan

Update Method Expected RTs

Time New Time

5.727

Done Apply Unassign Help

0082

After RM 7/8/09

Correct Baseline	na
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

MR 7/8/09

Before: Peak not integrated RM 7/8/09

File Security Edit Display Process Spectra Help

Sample: 1685-169-1,0 Type: SAMPLE Inj.Date: 08-JUL-2009 14:51

+ 28 Naphthalene
+ 30 Hexachlorobuta
+ 33 2-Methylnaphth
+ 145 1-Methylnaphth
+ 39 2-Chloronaphth
+ 45 Acenaphthylene
+ 48 Acenaphthene*
+ 51 Dibenzofuran
+ 57 Fluorene
+ 58 4-Chlorophenyl
+ 65 4-Bromophenyl
+ 66 Hexachlorobenz
+ 144 Carbazole
+ 72 Phenanthrene
+ 73 Anthracene
+ 80 Fluoranthene*
+ 81 Pyrene
+ 88 Benzo(a)Anthra
+ 91 Chrysene
+ 95 Benzo(b)fluora
+ 96 Benzo(k)fluora
+ 97 Benzo(e)pyrene
+ 98 Benzo(a)pyrene
+ 103 Indeno(1,2,3-c
104 Dibenzo(a,h)an

v070804.d
v070805.d
v070805.d

5 10 15 20

Ion 278.00
17.1 17.4 17.7 18.0

Ion 279.00
17.1 17.4 17.7 18.0

Ion 139.00
17.7 18.0

Assign Peak ...

Compound: Dibenzo(a,h)anthracene

Update Method Expected RTs

Time New Time

17.655

Done Apply Unassign Help

Hit# RT(min) Response Amount Conc Ratio Flags Report:

- Dibenzo(a,h)anthracene Undetected (Expected RT: 17.655)

0084

After nm 7/8/09

Correct Baseline	na
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

nm 7/8/09

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070813.d
Lab Smp Id: 1685-155-50 Client Smp ID: LCS
Inj Date : 08-JUL-2009 18:56
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-155-50;LCS
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 09-Jul-2009 09:24 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: second.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
3 Phenol*	94	3.975	3.976	(0.927)	165622	46.2012	46.20
41 Aniline	93	3.934	3.934	(0.918)	212286	48.0103	48.01
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	136113	46.1206	46.12
5 2-Chlorophenol	128	4.069	4.069	(0.949)	118552	46.0993	46.10
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	138288	48.3169	48.32
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	119650	40.0000	
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	139411	46.8048	46.80
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	82750	48.4366	48.44
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	133733	49.0176	49.02
12 2-Methylphenol	108	4.732	4.742	(1.104)	111300	46.0722	46.07
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	199321	44.2709	44.27
14 4-Methylphenol	108	4.939	4.939	(1.152)	119397	47.2196	47.22
15 N-Nitrosodipropylamine**	70	4.918	4.919	(1.147)	105072	46.2425	46.24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	16 Hexachloroethane	117	4.939	4.939	(1.152)	60427	49.0278	49.03
	18 Nitrobenzene	77	5.074	5.074	(0.854)	174308	50.1980	50.20
	19 Isophorone	82	5.395	5.385	(0.908)	293197	49.2835	49.28
	20 2-Nitrophenol*	139	5.499	5.499	(0.925)	64417	48.5549	48.55
	21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	99197	45.5403	45.54
	24 Benzoic Acid	122	5.830	5.820	(0.981)	66999	48.3868	48.39
	23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	155139	45.0564	45.06
	25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	93533	46.8954	46.90
	26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	115176	47.1082	47.11
*	27 Naphthalene-d8	136	5.944	5.945	(1.000)	260859	40.0000	
	28 Naphthalene	128	5.965	5.965	(1.003)	333376	45.2565	45.26
	29 4-Chloroaniline	127	6.100	6.100	(1.026)	148717	46.8551	46.86
	30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	59481	48.1255	48.12
	32 4-Chloro-3-Methylphenol*	107	6.773	6.774	(1.139)	106932	45.0887	45.09
	33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	229100	46.6585	46.66
	145 1-Methylnaphthalene	142	6.991	6.981	(1.176)	218560	45.6817	45.68
	35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.878)	64364	53.6459	53.64
	36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	69587	48.4841	48.48
	37 2,4,5-Trichlorophenol	196	7.312	7.312	(0.897)	70249	48.0294	48.03
	39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	230839	50.0979	50.10
	40 2-Nitroaniline	65	7.644	7.644	(0.938)	90127	48.9568	48.96
	42 Dimethylphthalate	163	7.944	7.945	(0.975)	240362	46.0718	46.07
	44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	59803	47.9015	47.90
	45 Acenaphthylene	152	7.965	7.965	(0.977)	353777	48.7685	48.77
	46 3-Nitroaniline	138	8.162	8.162	(1.001)	65415	47.3212	47.32
*	47 Acenaphthene-d10	164	8.152	8.162	(1.000)	142694	40.0000	
	48 Acenaphthene*	154	8.193	8.193	(1.005)	203245	45.5662	45.57
	49 2,4-Dinitrophenol**	184	8.286	8.287	(1.017)	26840	42.0570	42.06
	50 4-Nitrophenol**	109	8.432	8.432	(1.034)	42805	46.5013	46.50
	51 Dibenzofuran	168	8.390	8.390	(1.029)	293368	45.9766	45.98
	52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	83036	50.3915	50.39
	56 Diethylphthalate	149	8.825	8.825	(1.083)	264299	47.5013	47.50
	58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	111648	45.5302	45.53
	57 Fluorene	166	8.805	8.805	(1.080)	239666	45.2612	45.26
	59 4-Nitroaniline	138	8.908	8.908	(1.093)	66456	47.5547	47.55
	60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	40857	48.5417	48.54
	61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	172874	38.1905	38.19
	65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	64567	48.5248	48.52
	66 Hexachlorobenzene	284	9.571	9.572	(0.964)	72963	50.0322	50.03
	68 Pentachlorophenol*	266	9.799	9.800	(0.987)	36512	44.5988	44.60
*	71 Phenanthrene-d10	188	9.924	9.924	(1.000)	267675	40.0000	
	72 Phenanthrene	178	9.955	9.955	(1.003)	368760	46.5775	46.58(H)
	73 Anthracene	178	10.007	10.007	(1.008)	376528	48.3970	48.40
	144 Carbazole	167	10.224	10.224	(2.385)	354655	48.4364	48.44
	78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	420979	48.4291	48.43
	80 Fluoranthene*	202	11.385	11.385	(1.147)	375393	49.3424	49.34
	81 Pyrene	202	11.644	11.655	(0.867)	380887	46.2796	46.28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
	85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	182554	49.1857	49.18
	89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	114683	44.5096	44.51
	88 Benzo(a)Anthracene	228	13.395	13.396	(0.998)	314241	45.7980	45.80
*	90 Chrysene-d12	240	13.427	13.427	(1.000)	226579	40.0000	
	91 Chrysene	228	13.468	13.468	(1.003)	327034	44.1082	44.11
	93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	252801	49.2893	49.29
	94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	403230	52.2756	52.28
	95 Benzo(b)fluoranthene	252	15.219	15.219	(0.960)	312831	48.0920	48.09
	96 Benzo(k)fluoranthene	252	15.271	15.261	(0.963)	360829	50.6514	50.65
	97 Benzo(e)pyrene	252	15.675	15.675	(0.989)	298766	48.7227	48.72
	98 Benzo(a)pyrene*	252	15.675	15.758	(0.989)	299279	47.0439	47.04
*	99 Perylene-d12	264	15.851	15.852	(1.000)	173814	40.0000	
	103 Indeno(1,2,3-cd)pyrene	276	17.603	17.603	(1.110)	258699	49.2233	49.22
	104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.114)	243157	47.3099	47.31
	105 Benzo(g,h,i)perylene	276	17.986	17.986	(1.135)	292581	48.7704	48.77

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 09-Jul-2009 09:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070813.d
Lab Smp Id: 1685-155-50
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 17:07
Client Smp ID: LCS
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	94232	47116	188464	119650	26.97
27 Naphthalene-d8	209681	104840	419362	260859	24.41
47 Acenaphthene-d10	114283	57142	228566	142694	24.86
71 Phenanthrene-d10	221485	110742	442970	267675	20.85
90 Chrysene-d12	186936	93468	373872	226579	21.21
99 Perylene-d12	149026	74513	298052	173814	16.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.15	-0.13
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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.

Report Date: 09-Jul-2009 09:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 08jul09
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 1685-155-50
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: MS DATA
SampleType: LCS
SpikeList File: 8270sec.spk
Quant Type: ISTD
Sublist File: second.sub
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3 Phenol*	50.00	46.20	92.40	70-130
4 bis(2-Chloroethyl)	50.00	46.12	92.24	70-130
5 2-Chlorophenol	50.00	46.10	92.20	70-130
6 1,3-Dichlorobenzen	50.00	48.32	96.63	70-130
9 1,4-Dichlorobenzen	50.00	46.80	93.61	70-130
10 Benzyl Alcohol	50.00	48.44	96.87	70-130
11 1,2-Dichlorobenzen	50.00	49.02	98.04	70-130
12 2-Methylphenol	50.00	46.07	92.14	70-130
13 bis(2-Chloroisopro	50.00	44.27	88.54	70-130
14 4-Methylphenol	50.00	47.22	94.44	70-130
15 N-Nitrosodipropyla	50.00	46.24	92.48	70-130
16 Hexachloroethane	50.00	49.03	98.06	70-130
18 Nitrobenzene	50.00	50.20	100.40	70-130
19 Isophorone	50.00	49.28	98.57	70-130
20 2-Nitrophenol*	50.00	48.55	97.11	70-130
21 2,4-Dimethylphenol	50.00	45.54	91.08	70-130
23 bis(2-Chloroethoxy	50.00	45.06	90.11	70-130
24 Benzoic Acid	50.00	48.39	96.77	70-130
25 2,4-Dichlorophenol	50.00	46.90	93.79	70-130
26 1,2,4-Trichloroben	50.00	47.11	94.22	70-130
28 Naphthalene	50.00	45.26	90.51	70-130
29 4-Chloroaniline	50.00	46.86	93.71	70-130
30 Hexachlorobutadien	50.00	48.12	96.25	70-130
32 4-Chloro-3-Methylp	50.00	45.09	90.18	70-130
33 2-Methylnaphthalen	50.00	46.66	93.32	70-130
145 1-Methylnaphthalen	50.00	45.68	91.36	70-130
35 Hexachlorocyclopen	50.00	53.64	107.29	70-130
36 2,4,6-Trichlorophe	50.00	48.48	96.97	70-130
37 2,4,5-Trichlorophe	50.00	48.03	96.06	70-130
39 2-Chloronaphthalen	50.00	50.10	100.20	70-130
40 2-Nitroaniline	50.00	48.96	97.91	70-130
46 3-Nitroaniline	50.00	47.32	94.64	70-130
42 Dimethylphthalate	50.00	46.07	92.14	70-130

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
44 2,6-Dinitrotoluene	50.00	47.90	95.80	70-130
45 Acenaphthylene	50.00	48.77	97.54	70-130
48 Acenaphthene*	50.00	45.57	91.13	70-130
49 2,4-Dinitrophenol*	50.00	42.06	84.11	70-130
50 4-Nitrophenol**	50.00	46.50	93.00	70-130
52 2,4-Dinitrotoluene	50.00	50.39	100.78	70-130
51 Dibenzofuran	50.00	45.98	91.95	70-130
56 Diethylphthalate	50.00	47.50	95.00	70-130
57 Fluorene	50.00	45.26	90.52	70-130
58 4-Chlorophenyl phe	50.00	45.53	91.06	70-130
59 4-Nitroaniline	50.00	47.55	95.11	70-130
60 4,6-Dinitro-2-meth	50.00	48.54	97.08	70-130
61 N-nitrosodiphenyla	50.00	38.19	76.38	70-130
65 4-Bromophenyl phen	50.00	48.52	97.05	70-130
66 Hexachlorobenzene	50.00	50.03	100.06	70-130
144 Carbazole	50.00	48.44	96.87	70-130
68 Pentachlorophenol*	50.00	44.60	89.20	70-130
72 Phenanthrene	50.00	46.58	93.15	70-130
73 Anthracene	50.00	48.40	96.79	70-130
78 Di-n-butylphthalat	50.00	48.43	96.86	70-130
80 Fluoranthene*	50.00	49.34	98.68	70-130
81 Pyrene	50.00	46.28	92.56	70-130
85 Butyl benzyl phtha	50.00	49.18	98.37	70-130
89 3 3'-Dichlorobenzi	50.00	44.51	89.02	70-130
88 Benzo(a)Anthracene	50.00	45.80	91.60	70-130
91 Chrysene	50.00	44.11	88.22	70-130
93 bis(2-ethylhexyl)P	50.00	49.29	98.58	70-130
94 Di-n-octyl phthala	50.00	52.28	104.55	70-130
95 Benzo(b)fluoranthe	50.00	48.09	96.18	70-130
96 Benzo(k)fluoranthe	50.00	50.65	101.30	70-130
97 Benzo(e)pyrene	50.00	48.72	97.45	70-130
98 Benzo(a)pyrene*	50.00	47.04	94.09	70-130
103 Indeno(1,2,3-cd)py	50.00	49.22	98.45	70-130
104 Dibenzo(a,h)anthra	50.00	47.31	94.62	70-130
105 Benzo(g,h,i)peryle	50.00	48.77	97.54	70-130

0092

Data File: /chem/msdv.i/08jul09.b/v070813.d
Date : 08-JUL-2009 18:56
Client ID: LCS
Sample Info: ;1685-155-50;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

3 Phenol*

Concentration: 46.20 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

41 Aniline

Concentration: 48.01 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

4 bis(2-Chloroethyl)ether

Concentration: 46.12 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

5 2-Chlorophenol

Concentration: 46.10 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

6 1,3-Dichlorobenzene

Concentration: 48.32 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

9 1,4-Dichlorobenzene*

Concentration: 46.80 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

10 Benzyl Alcohol

Concentration: 48.44 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

11 1,2-Dichlorobenzene

Concentration: 49.02 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

12 2-Methylphenol

Concentration: 46.07 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

13 bis(2-Chloroisopropyl)ether

Concentration: 44.27 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

14 4-Methylphenol

Concentration: 47.22 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

15 N-Nitrosodipropylamine**

Concentration: 46.24 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

16 Hexachloroethane

Concentration: 49.03 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

18 Nitrobenzene

Concentration: 50.20 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

19 Isophorone

Concentration: 49.28 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

20 2-Nitrophenol*

Concentration: 48.55 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

21 2,4-Dimethylphenol

Concentration: 45.54 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

24 Benzoic Acid

Concentration: 48.39 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

23 bis(2-Chloroethoxy)methane

Concentration: 45.06 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

25 2,4-Dichlorophenol*

Concentration: 46.90 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 47.11 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 45.26 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

29 4-Chloroaniline

Concentration: 46.86 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

30 Hexachlorobutadiene*

Concentration: 48.12 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

32 4-Chloro-3-Methylphenol*

Concentration: 45.09 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 46.66 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

145 1-Methylnaphthalene

Concentration: 45.68 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

35 Hexachlorocyclopentadiene**

Concentration: 53.64 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

36 2,4,6-Trichlorophenol*

Concentration: 48.48 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

37 2,4,5-Trichlorophenol

Concentration: 48.03 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

39 2-Chloronaphthalene

Concentration: 50.10 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

40 2-Nitroaniline

Concentration: 48.96 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

42 Dimethylphthalate

Concentration: 46.07 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

44 2,6-Dinitrotoluene

Concentration: 47.90 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

45 Acenaphthylene

Concentration: 48.77 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

46 3-Nitroaniline

Concentration: 47.32 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

48 Acenaphthene*

Concentration: 45.57 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

49 2,4-Dinitrophenol**

Concentration: 42.06 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

50 4-Nitrophenol**

Concentration: 46.50 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

51 Dibenzofuran

Concentration: 45.98 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

52 2,4-Dinitrotoluene

Concentration: 50.39 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

56 Diethylphthalate

Concentration: 47.50 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

58 4-Chlorophenyl phenyl ether

Concentration: 45.53 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

57 Fluorene

Concentration: 45.26 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

59 4-Nitroaniline

Concentration: 47.55 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

60 4,6-Dinitro-2-methylphenol

Concentration: 48.54 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

61 N-nitrosodiphenylamine*

Concentration: 38.19 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

65 4-Bromophenyl phenyl ether

Concentration: 48.52 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

66 Hexachlorobenzene

Concentration: 50.03 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

68 Pentachlorophenol*

Concentration: 44.60 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

72 Phenanthrene

Concentration: 46.58 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

73 Anthracene

Concentration: 48.40 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

144 Carbazole

Concentration: 48.44 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 48.43 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

80 Fluoranthene*

Concentration: 49.34 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

81 Pyrene

Concentration: 46.28 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

85 Butyl benzyl phthalate

Concentration: 49.18 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

89 3 3'-Dichlorobenzidine

Concentration: 44.51 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

88 Benzo(a)Anthracene

Concentration: 45.80 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

91 Chrysene

Concentration: 44.11 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

93 bis(2-ethylhexyl)Phthalate

Concentration: 49.29 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

94 Di-n-octyl phthalate*

Concentration: 52.28 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

95 Benzo(b)fluoranthene

Concentration: 48.09 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

96 Benzo(k)fluoranthene

Concentration: 50.65 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

97 Benzo(e)pyrene

Concentration: 48.72 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

98 Benzo(a)pyrene*

Concentration: 47.04 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

103 Indeno(1,2,3-cd)pyrene

Concentration: 49.22 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

104 Dibenzo(a,h)anthracene

Concentration: 47.31 ug

Data File: /chem/msdv.i/08jul09.b/v070813.d

Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

105 Benzo(g,h,i)perylene

Concentration: 48.77 ug

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070804.d
Lab Smp Id: 1685-169-1.0 Client Smp ID: Level 1
Inj Date : 08-JUL-2009 14:51
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-169-1.0;Level 1
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 08-Jul-2009 17:45 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 14:51 Cal File: v070804.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	3439	1.00000	1.000
$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	4710	1.00000	1.000
$ 101 Benzo(a)pyrene-d12	264	15.706	15.717	(0.991)	2540	1.00000	1.000
$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	5253	1.00000	1.000
$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	6949	1.00000	1.000
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	96073	40.0000	
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	241727	40.0000	
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	131148	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	248541	40.0000	
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	203160	40.0000	
* 99 Perylene-d12	264	15.852	15.852	(1.000)	162044	40.0000	
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	2577	1.00000	1.000
41 Aniline	93	3.934	3.934	(0.918)	3852	1.00000	1.000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	2562	1.00000	1.000
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	2848	1.00000	1.000
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	1363	1.00000	1.000
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	2544	1.00000	1.000
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	4292	1.00000	1.000
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	1880	1.00000	1.000
16 Hexachloroethane	117	4.939	4.939	(1.152)	1142	1.00000	1.000
18 Nitrobenzene	77	5.074	5.074	(0.854)	2897	1.00000	1.000
19 Isophorone	82	5.385	5.385	(0.906)	4822	1.00000	1.000
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	3038	1.00000	1.000(M)
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	2440	1.00000	1.000
28 Naphthalene	128	5.965	5.965	(1.003)	7085	1.00000	1.000
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	1140	1.00000	1.000
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	4541	1.00000	1.000
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	4563	1.00000	1.000
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	4293	1.00000	1.000
45 Acenaphthylene	152	7.965	7.965	(0.977)	6430	1.00000	1.000
48 Acenaphthene*	154	8.193	8.193	(1.005)	4205	1.00000	1.000
51 Dibenzofuran	168	8.390	8.390	(1.029)	5848	1.00000	1.000
57 Fluorene	166	8.805	8.805	(1.080)	4955	1.00000	1.000
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	2399	1.00000	1.000
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	1175	1.00000	1.000
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	1341	1.00000	1.000
144 Carbazole	167	10.224	10.224	(2.385)	5974	1.00000	1.000
72 Phenanthrene	178	9.945	9.955	(1.002)	7817	1.00000	1.000
73 Anthracene	178	9.996	10.007	(1.007)	6698	1.00000	1.000
80 Fluoranthene*	202	11.375	11.385	(1.146)	6630	1.00000	1.000
81 Pyrene	202	11.644	11.655	(0.868)	7475	1.00000	1.000
88 Benzo(a)Anthracene	228	13.395	13.396	(0.998)	5556	1.00000	1.000
91 Chrysene	228	13.458	13.468	(1.003)	9115	1.00000	1.000
95 Benzo(b)fluoranthene	252	15.209	15.219	(0.959)	4866	1.00000	1.000
96 Benzo(k)fluoranthene	252	15.250	15.261	(0.962)	6175	1.00000	1.000
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	4921	1.00000	1.000
98 Benzo(a)pyrene*	252	15.748	15.758	(0.993)	4833	1.00000	1.000(H)
103 Indeno(1,2,3-cd)pyrene	276	17.582	17.603	(1.109)	3766	1.00000	1.000
104 Dibenzo(a,h)anthracene	278	17.644	17.655	(1.113)	3728	1.00000	1.000(M)
105 Benzo(g,h,i)perylene	276	17.966	17.986	(1.133)	4762	1.00000	1.000

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Report Date: 08-Jul-2009 17:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070804.d
Lab Smp Id: 1685-169-1.0
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 14:51
Client Smp ID: Level 1
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	96073	48036	192146	96073	0.00
27 Naphthalene-d8	241727	120864	483454	241727	0.00
47 Acenaphthene-d10	131148	65574	262296	131148	0.00
71 Phenanthrene-d10	248541	124270	497082	248541	0.00
90 Chrysene-d12	203160	101580	406320	203160	0.00
99 Perylene-d12	162044	81022	324088	162044	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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/msdv.i/08jul09.b/v070804.d
Date : 08-JUL-2009 14:51
Client ID: Level 1
Sample Info: ;1685-169-1.0;Level 1
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

0165

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070805.d
Lab Smp Id: 1685-169-5.0 Client Smp ID: Level 2
Inj Date : 08-JUL-2009 15:18
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-169-5.0;Level 2
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 08-Jul-2009 17:45 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 15:18 Cal File: v070805.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 5ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	13614	5.00000	5.000
$ 2 Phenol-d5	99	3.955	3.955	(0.923)	16047	5.00000	5.000
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	16522	5.00000	5.062
$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.119)	3544	5.00000	5.000
$ 101 Benzo(a)pyrene-d12	264	15.707	15.717	(0.991)	16281	5.00000	5.708
$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	25702	5.00000	5.343
$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	23804	5.00000	4.870
$ 148 Pyrene-d10	212	11.624	11.624	(0.866)	32156	5.00000	4.895
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	90666	40.0000	
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	226541	40.0000	
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	125228	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	236386	40.0000	
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	196106	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 99 Perylene-d12	264	15.852	15.852	(1.000)	156221	40.0000	
3 Phenol*	94	3.965	3.976	(0.925)	15368	5.00000	5.000
41 Aniline	93	3.934	3.934	(0.918)	18529	5.00000	5.048
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	12822	5.00000	5.132
5 2-Chlorophenol	128	4.069	4.069	(0.949)	10883	5.00000	5.000
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	12751	5.00000	5.133
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	13203	5.00000	4.956
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	11947	5.00000	4.988
12 2-Methylphenol	108	4.732	4.742	(1.104)	10335	5.00000	5.000
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	19945	5.00000	4.962
14 4-Methylphenol	108	4.939	4.939	(1.152)	10637	5.00000	5.000
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	9706	5.00000	5.225
16 Hexachloroethane	117	4.939	4.939	(1.152)	5348	5.00000	4.981
18 Nitrobenzene	77	5.074	5.074	(0.854)	15046	5.00000	5.257
19 Isophorone	82	5.385	5.385	(0.906)	25611	5.00000	5.313
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	4743	5.00000	5.000
21 2,4-Dimethylphenol	122	5.613	5.623	(0.944)	9056	5.00000	5.000
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	15061	5.00000	5.141
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	8391	5.00000	5.000
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	10943	5.00000	4.890
28 Naphthalene	128	5.965	5.965	(1.003)	33304	5.00000	5.008
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	5492	5.00000	5.069
32 4-Chloro-3-Methylphenol*	107	6.784	6.774	(1.141)	9190	5.00000	5.000
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	22177	5.00000	5.103
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	21491	5.00000	5.013
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	5788	5.00000	5.000
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.898)	6169	5.00000	5.000
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	21164	5.00000	5.080
40 2-Nitroaniline	65	7.644	7.644	(0.938)	6723	5.00000	5.000
46 3-Nitroaniline	138	8.162	8.162	(1.001)	5384	5.00000	
42 Dimethylphthalate	163	7.945	7.945	(0.975)	23709	5.00000	5.000
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	5127	5.00000	5.000
45 Acenaphthylene	152	7.965	7.965	(0.977)	31961	5.00000	5.101
48 Acenaphthene*	154	8.193	8.193	(1.005)	20221	5.00000	5.018
50 4-Nitrophenol**	109	8.442	8.432	(1.036)	2237	5.00000	
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	6261	5.00000	5.000
51 Dibenzofuran	168	8.390	8.390	(1.029)	29244	5.00000	5.116
56 Diethylphthalate	149	8.815	8.825	(1.081)	25536	5.00000	5.000
57 Fluorene	166	8.805	8.805	(1.080)	24783	5.00000	5.116
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	11101	5.00000	4.922
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	5933	5.00000	5.150
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	6779	5.00000	5.153
144 Carbazole	167	10.224	10.224	(2.385)	32073	5.00000	5.322
72 Phenanthrene	178	9.945	9.955	(1.002)	36847	5.00000	4.978
73 Anthracene	178	9.996	10.007	(1.007)	34716	5.00000	5.215
78 Di-n-butylphthalate	149	10.784	10.794	(1.087)	35188	5.00000	5.000
80 Fluoranthene*	202	11.375	11.385	(1.146)	34514	5.00000	5.226

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
81 Pyrene	202	11.644	11.655	(0.868)	38735	5.00000	5.178
85 Butyl benzyl phthalate	149	12.722	12.732	(0.948)	12908	5.00000	5.000
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	29140	5.00000	5.208
91 Chrysene	228	13.458	13.468	(1.003)	35330	5.00000	4.454
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.026)	18653	5.00000	5.000
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	24049	5.00000	5.000
95 Benzo(b)fluoranthene	252	15.209	15.219	(0.959)	27429	5.00000	5.390
96 Benzo(k)fluoranthene	252	15.251	15.261	(0.962)	33343	5.00000	5.283
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	27554	5.00000	5.374
98 Benzo(a)pyrene*	252	15.738	15.758	(0.993)	28621	5.00000	5.513
103 Indeno(1,2,3-cd)pyrene	276	17.582	17.603	(1.109)	20082	5.00000	5.252
104 Dibenzo(a,h)anthracene	278	17.644	17.655	(1.113)	22789	5.00000	5.591
105 Benzo(g,h,i)perylene	276	17.966	17.986	(1.133)	25977	5.00000	5.309
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	6684	5.00000	5.096

Report Date: 08-Jul-2009 17:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070805.d
Lab Smp Id: 1685-169-5.0
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 15:18
Client Smp ID: Level 2
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	90666	45333	181332	90666	0.00
27 Naphthalene-d8	226541	113270	453082	226541	0.00
47 Acenaphthene-d10	125228	62614	250456	125228	0.00
71 Phenanthrene-d10	236386	118193	472772	236386	0.00
90 Chrysene-d12	196106	98053	392212	196106	0.00
99 Perylene-d12	156221	78110	312442	156221	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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/msdv.i/08jul09.b/v070805.d

Date : 08-JUL-2009 15:18

Client ID: Level 2

Sample Info: ;1685-169-5.0;Level 2

Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070806.d
Lab Smp Id: 1685-169-10 Client Smp ID: Level 3
Inj Date : 08-JUL-2009 15:45
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-169-10;Level 3
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 08-Jul-2009 17:46 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 15:45 Cal File: v070806.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 10ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	26628	10.0000	9.620
$ 2 Phenol-d5	99	3.955	3.955	(0.923)	31231	10.0000	9.596
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	33977	10.0000	9.947
$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.119)	7038	10.0000	9.867
$ 101 Benzo(a)pyrene-d12	264	15.707	15.717	(0.991)	35319	10.0000	11.29
$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	52599	10.0000	10.54
$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	47119	10.0000	9.628
$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	63850	10.0000	9.546
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	95665	40.0000	
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	237741	40.0000	
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	127696	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	238491	40.0000	
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	204189	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 99 Perylene-d12	264	15.852	15.852	(1.000)	160353	40.0000	
3 Phenol*	94	3.965	3.976	(0.925)	32319	10.0000	9.983
41 Aniline	93	3.934	3.934	(0.918)	38166	10.0000	9.903
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	25998	10.0000	9.908
5 2-Chlorophenol	128	4.069	4.069	(0.949)	22912	10.0000	9.988
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	25670	10.0000	9.862
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	26548	10.0000	9.622
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	24872	10.0000	9.894
12 2-Methylphenol	108	4.732	4.742	(1.104)	21491	10.0000	9.926
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	40680	10.0000	9.724
14 4-Methylphenol	108	4.939	4.939	(1.152)	22510	10.0000	10.01
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	20007	10.0000	10.14
16 Hexachloroethane	117	4.939	4.939	(1.152)	11022	10.0000	9.818
18 Nitrobenzene	77	5.074	5.074	(0.854)	32062	10.0000	10.44
19 Isophorone	82	5.385	5.385	(0.906)	52410	10.0000	10.24
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	10862	10.0000	10.44
21 2,4-Dimethylphenol	122	5.613	5.623	(0.944)	19244	10.0000	10.06
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	31135	10.0000	10.08
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	17672	10.0000	10.02
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	22224	10.0000	9.636
28 Naphthalene	128	5.965	5.965	(1.003)	67788	10.0000	9.807
29 4-Chloroaniline	127	6.100	6.100	(1.026)	28556	10.0000	10.00
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	11376	10.0000	10.00
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	19857	10.0000	10.14
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	43921	10.0000	9.751
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	43429	10.0000	9.766
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	12456	10.0000	10.27
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.898)	12654	10.0000	10.03
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	42565	10.0000	10.01
40 2-Nitroaniline	65	7.644	7.644	(0.938)	15393	10.0000	10.58
46 3-Nitroaniline	138	8.162	8.162	(1.001)	11341	10.0000	10.00
42 Dimethylphthalate	163	7.945	7.945	(0.975)	49226	10.0000	10.09
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	10899	10.0000	10.21
45 Acenaphthylene	152	7.965	7.965	(0.977)	66879	10.0000	10.31
48 Acenaphthene*	154	8.193	8.193	(1.005)	41495	10.0000	10.06
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	14147	10.0000	10.51
51 Dibenzofuran	168	8.390	8.390	(1.029)	59922	10.0000	10.18
56 Diethylphthalate	149	8.815	8.825	(1.081)	50984	10.0000	9.894
57 Fluorene	166	8.805	8.805	(1.080)	49091	10.0000	9.959
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	22662	10.0000	9.902
59 4-Nitroaniline	138	8.898	8.908	(1.092)	11889	10.0000	10.00
60 4,6-Dinitro-2-methylphenol	198	8.950	8.960	(0.902)	4492	10.0000	10.00
61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	41954	10.0000	10.00
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	12396	10.0000	10.43
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	13788	10.0000	10.26
144 Carbazole	167	10.224	10.224	(2.385)	65791	10.0000	10.23
72 Phenanthrene	178	9.945	9.955	(1.002)	73746	10.0000	9.916

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
73 Anthracene	178	9.996	10.007	(1.007)	71388	10.0000	10.41
78 Di-n-butylphthalate	149	10.784	10.794	(1.087)	74539	10.0000	10.24
80 Fluoranthene*	202	11.375	11.385	(1.146)	70502	10.0000	10.38
81 Pyrene	202	11.644	11.655	(0.868)	76639	10.0000	9.892
85 Butyl benzyl phthalate	149	12.722	12.732	(0.948)	29770	10.0000	10.51
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	60927	10.0000	10.30
91 Chrysene	228	13.458	13.468	(1.003)	65979	10.0000	8.563
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.026)	41663	10.0000	10.35
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	57565	10.0000	10.77
95 Benzo(b)fluoranthene	252	15.209	15.219	(0.959)	56807	10.0000	10.57
96 Benzo(k)fluoranthene	252	15.251	15.261	(0.962)	72685	10.0000	10.78
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	57259	10.0000	10.57
98 Benzo(a)pyrene*	252	15.748	15.758	(0.993)	60037	10.0000	10.81
103 Indeno(1,2,3-cd)pyrene	276	17.593	17.603	(1.110)	43774	10.0000	10.74
104 Dibenzo(a,h)anthracene	278	17.644	17.655	(1.113)	49272	10.0000	11.12
105 Benzo(g,h,i)perylene	276	17.966	17.986	(1.133)	55189	10.0000	10.64
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	15064	10.0000	10.57

Report Date: 08-Jul-2009 17:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070806.d
Lab Smp Id: 1685-169-10
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 15:45
Client Smp ID: Level 3
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	95665	47832	191330	95665	0.00
27 Naphthalene-d8	237741	118870	475482	237741	0.00
47 Acenaphthene-d10	127696	63848	255392	127696	0.00
71 Phenanthrene-d10	238491	119246	476982	238491	0.00
90 Chrysene-d12	204189	102094	408378	204189	0.00
99 Perylene-d12	160353	80176	320706	160353	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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/msdv.i/08jul09.b/v070806.d
Date : 08-JUL-2009 15:45
Client ID: Level 3
Sample Info: ;1685-169-10;Level 3
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

0175

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070807.d
Lab Smp Id: 1685-169-20 Client Smp ID: Level 4
Inj Date : 08-JUL-2009 16:12
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-169-20;Level 4
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 08-Jul-2009 17:46 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 16:12 Cal File: v070807.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 20ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	56422	20.0000	19.22
$ 2 Phenol-d5	99	3.955	3.955	(0.923)	65910	20.0000	19.13
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	71370	20.0000	20.29
$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.119)	15368	20.0000	20.01
$ 101 Benzo(a)pyrene-d12	264	15.707	15.717	(0.991)	78411	20.0000	22.32
$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	111811	20.0000	20.47
$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	96579	20.0000	18.72
$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	132559	20.0000	18.69
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	103456	40.0000	
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	243571	40.0000	
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	137456	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	259080	40.0000	
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	221200	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 99 Perylene-d12	264	15.852	15.852	(1.000)	173004	40.0000	
3 Phenol*	94	3.965	3.976	(0.925)	66088	20.0000	19.24
41 Aniline	93	3.934	3.934	(0.918)	80970	20.0000	19.57
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	54431	20.0000	19.38
5 2-Chlorophenol	128	4.069	4.069	(0.949)	48290	20.0000	19.64
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	53070	20.0000	19.13
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	54770	20.0000	18.74
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	50027	20.0000	18.78
12 2-Methylphenol	108	4.732	4.742	(1.104)	45619	20.0000	19.65
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	82819	20.0000	18.70
14 4-Methylphenol	108	4.939	4.939	(1.152)	47584	20.0000	19.71
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	43001	20.0000	20.11
16 Hexachloroethane	117	4.939	4.939	(1.152)	23061	20.0000	19.24
18 Nitrobenzene	77	5.074	5.074	(0.854)	64979	20.0000	20.48
19 Isophorone	82	5.385	5.385	(0.906)	112129	20.0000	21.02
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	24691	20.0000	22.00
21 2,4-Dimethylphenol	122	5.613	5.623	(0.944)	39683	20.0000	20.17
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	65052	20.0000	20.42
24 Benzoic Acid	122	5.789	5.820	(0.974)	22319	20.0000	20.00
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	36980	20.0000	20.30
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	46513	20.0000	19.76
28 Naphthalene	128	5.965	5.965	(1.003)	137631	20.0000	19.57
29 4-Chloroaniline	127	6.100	6.100	(1.026)	59133	20.0000	20.10
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	23249	20.0000	19.97
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	43973	20.0000	21.24
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	93006	20.0000	20.12
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	89977	20.0000	19.81
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.878)	19930	20.0000	20.00
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	26661	20.0000	20.28
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.898)	27028	20.0000	19.93
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	86349	20.0000	19.14
40 2-Nitroaniline	65	7.644	7.644	(0.938)	34814	20.0000	21.43
46 3-Nitroaniline	138	8.162	8.162	(1.001)	25715	20.0000	20.52
42 Dimethylphthalate	163	7.945	7.945	(0.975)	101431	20.0000	19.54
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	23687	20.0000	20.40
45 Acenaphthylene	152	7.965	7.965	(0.977)	138810	20.0000	19.90
48 Acenaphthene*	154	8.193	8.193	(1.005)	86183	20.0000	19.56
49 2,4-Dinitrophenol**	184	8.287	8.287	(1.017)	6637	20.0000	20.00
50 4-Nitrophenol**	109	8.432	8.432	(1.034)	15786	20.0000	20.00
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	31503	20.0000	21.13
51 Dibenzofuran	168	8.390	8.390	(1.029)	122392	20.0000	19.49
56 Diethylphthalate	149	8.815	8.825	(1.081)	104595	20.0000	19.22
57 Fluorene	166	8.805	8.805	(1.080)	100232	20.0000	19.16
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	46559	20.0000	19.16
59 4-Nitroaniline	138	8.908	8.908	(1.093)	26208	20.0000	20.24
60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	13433	20.0000	23.17
61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	88219	20.0000	19.67

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	25863	20.0000	20.03
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	28569	20.0000	19.67
144 Carbazole	167	10.224	10.224	(2.385)	136062	20.0000	19.67
68 Pentachlorophenol*	266	9.800	9.800	(0.987)	13137	20.0000	20.00
72 Phenanthrene	178	9.945	9.955	(1.002)	149666	20.0000	18.87(H)
73 Anthracene	178	9.996	10.007	(1.007)	150065	20.0000	20.11
78 Di-n-butylphthalate	149	10.784	10.794	(1.087)	164164	20.0000	20.50
80 Fluoranthene*	202	11.375	11.385	(1.146)	146159	20.0000	19.86
81 Pyrene	202	11.644	11.655	(0.868)	162516	20.0000	19.52
85 Butyl benzyl phthalate	149	12.722	12.732	(0.948)	68310	20.0000	21.45
89 3 3'-Dichlorobenzidine	252	13.437	13.447	(1.002)	47505	20.0000	20.00
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	133403	20.0000	20.61
91 Chrysene	228	13.458	13.468	(1.003)	137822	20.0000	17.26
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.026)	94586	20.0000	21.10
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	143154	20.0000	22.97
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.960)	136195	20.0000	22.50
96 Benzo(k)fluoranthene	252	15.261	15.261	(0.963)	139327	20.0000	19.36
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	124750	20.0000	20.99
98 Benzo(a)pyrene*	252	15.748	15.758	(0.993)	127538	20.0000	20.95
103 Indeno(1,2,3-cd)pyrene	276	17.593	17.603	(1.110)	106914	20.0000	23.07
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.114)	94509	20.0000	19.82
105 Benzo(g,h,i)perylene	276	17.976	17.986	(1.134)	119435	20.0000	20.99
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	31180	20.0000	20.18

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 08-Jul-2009 17:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070807.d
Lab Smp Id: 1685-169-20
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 16:12
Client Smp ID: Level 4
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	103456	51728	206912	103456	0.00
27 Naphthalene-d8	243571	121786	487142	243571	0.00
47 Acenaphthene-d10	137456	68728	274912	137456	0.00
71 Phenanthrene-d10	259080	129540	518160	259080	0.00
90 Chrysene-d12	221200	110600	442400	221200	0.00
99 Perylene-d12	173004	86502	346008	173004	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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.

0180

Data File: /chem/msdv.i/08jul09.b/v070807.d
Date : 08-JUL-2009 16:12
Client ID: Level 4
Sample Info: ;1685-169-20;Level 4
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070808.d
Lab Smp Id: 1685-169-40 Client Smp ID: Level 5
Inj Date : 08-JUL-2009 16:40
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-169-40;Level 5
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 08-Jul-2009 17:46 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 16:40 Cal File: v070808.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	101647	40.0000	36.43
$ 2 Phenol-d5	99	3.955	3.955	(0.923)	117804	40.0000	36.08
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	131186	40.0000	39.99
$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.118)	28541	40.0000	40.77
$ 83 Fluoranthene-d10	212	11.364	11.364	(1.145)	205140	40.0000	40.76
$ 101 Benzo(a)pyrene-d12	264	15.717	15.717	(0.992)	143784	40.0000	44.46
$ 147 Fluorene-d10	176	8.774	8.774	(1.075)	171334	40.0000	37.30
$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	233676	40.0000	36.98
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	101249	40.0000	
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	227222	40.0000	
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	124494	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	237579	40.0000	
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	200862	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 99 Perylene-d12	264	15.851	15.852	(1.000)	154837	40.0000	
3 Phenol*	94	3.975	3.976	(0.927)	122107	40.0000	37.17
41 Aniline	93	3.934	3.934	(0.918)	147543	40.0000	37.09
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	98263	40.0000	36.52
5 2-Chlorophenol	128	4.069	4.069	(0.949)	87046	40.0000	37.06
6 1,3-Dichlorobenzene	146	4.234	4.235	(0.988)	95534	40.0000	36.05
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	97079	40.0000	35.00
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	57530	40.0000	38.42
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	90784	40.0000	35.74
12 2-Methylphenol	108	4.732	4.742	(1.104)	80275	40.0000	36.40
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	147829	40.0000	35.14
14 4-Methylphenol	108	4.939	4.939	(1.152)	84643	40.0000	36.79
15 N-Nitrosodipropylamine**	70	4.918	4.919	(1.147)	76311	40.0000	37.12
16 Hexachloroethane	117	4.939	4.939	(1.152)	40911	40.0000	35.79
18 Nitrobenzene	77	5.074	5.074	(0.854)	118910	40.0000	40.15
19 Isophorone	82	5.385	5.385	(0.906)	205996	40.0000	41.10
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	46179	40.0000	43.00
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	74668	40.0000	40.50
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	117317	40.0000	39.58
24 Benzoic Acid	122	5.810	5.820	(0.977)	43249	40.0000	40.76
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	68241	40.0000	40.12
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	80799	40.0000	37.40
28 Naphthalene	128	5.965	5.965	(1.003)	246419	40.0000	38.03
29 4-Chloroaniline	127	6.100	6.100	(1.026)	105986	40.0000	39.08
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	42089	40.0000	38.99
32 4-Chloro-3-Methylphenol*	107	6.773	6.774	(1.139)	79811	40.0000	40.99
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	167301	40.0000	39.02
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	162192	40.0000	38.61
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	38838	40.0000	41.46
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	50379	40.0000	41.70
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	49431	40.0000	40.19
39 2-Chloronaphthalene	162	7.447	7.447	(0.912)	154441	40.0000	38.22
40 2-Nitroaniline	65	7.644	7.644	(0.937)	63685	40.0000	42.41
46 3-Nitroaniline	138	8.162	8.162	(1.000)	47116	40.0000	40.99
42 Dimethylphthalate	163	7.944	7.945	(0.973)	177289	40.0000	38.25
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.981)	42013	40.0000	39.96
45 Acenaphthylene	152	7.965	7.965	(0.976)	254490	40.0000	40.23
48 Acenaphthene*	154	8.193	8.193	(1.004)	147529	40.0000	37.54
49 2,4-Dinitrophenol**	184	8.286	8.287	(1.015)	18202	40.0000	48.18
50 4-Nitrophenol**	109	8.432	8.432	(1.033)	31182	40.0000	41.73
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.038)	56396	40.0000	41.31
51 Dibenzofuran	168	8.390	8.390	(1.028)	215684	40.0000	38.32
56 Diethylphthalate	149	8.825	8.825	(1.081)	189859	40.0000	38.88
57 Fluorene	166	8.805	8.805	(1.079)	177763	40.0000	37.98
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	85326	40.0000	39.01
59 4-Nitroaniline	138	8.908	8.908	(1.091)	46781	40.0000	39.92
60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	28998	40.0000	48.64

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
61 N-nitrosodiphenylamine*	169	9.001	9.002	(0.907)	157276	40.0000	38.81
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	46534	40.0000	39.44
66 Hexachlorobenzene	284	9.571	9.572	(0.964)	50895	40.0000	38.56
144 Carbazole	167	10.224	10.224	(2.385)	243110	40.0000	36.66
68 Pentachlorophenol*	266	9.799	9.800	(0.987)	26823	40.0000	42.14
72 Phenanthrene	178	9.945	9.955	(1.002)	270246	40.0000	37.70(H)
73 Anthracene	178	10.007	10.007	(1.008)	275244	40.0000	40.18
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	307261	40.0000	41.37
80 Fluoranthene*	202	11.385	11.385	(1.147)	272165	40.0000	40.26
81 Pyrene	202	11.644	11.655	(0.867)	279906	40.0000	37.58
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	131232	40.0000	43.91
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	88084	40.0000	40.42
88 Benzo(a)Anthracene	228	13.395	13.396	(0.998)	241499	40.0000	40.86
91 Chrysene	228	13.458	13.468	(1.002)	236238	40.0000	33.84
93 bis(2-ethylhexyl)Phthalate	149	13.768	13.769	(1.025)	178672	40.0000	42.84
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	283729	40.0000	47.64
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.960)	232817	40.0000	42.35
96 Benzo(k)fluoranthene	252	15.261	15.261	(0.963)	256797	40.0000	39.90
97 Benzo(e)pyrene	252	15.675	15.675	(0.989)	220859	40.0000	41.21
98 Benzo(a)pyrene*	252	15.758	15.758	(0.994)	229653	40.0000	41.70
103 Indeno(1,2,3-cd)pyrene	276	17.592	17.603	(1.110)	194906	40.0000	45.40
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.114)	177167	40.0000	41.21
105 Benzo(g,h,i)perylene	276	17.976	17.986	(1.134)	219829	40.0000	42.49

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 08-Jul-2009 17:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070808.d
Lab Smp Id: 1685-169-40
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 16:40
Client Smp ID: Level 5
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	101249	50624	202498	101249	0.00
27 Naphthalene-d8	227222	113611	454444	227222	0.00
47 Acenaphthene-d10	124494	62247	248988	124494	0.00
71 Phenanthrene-d10	237579	118790	475158	237579	0.00
90 Chrysene-d12	200862	100431	401724	200862	0.00
99 Perylene-d12	154837	77418	309674	154837	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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/msdv.i/08jul09.b/v070808.d
Date : 08-JUL-2009 16:40
Client ID: Level 5
Sample Info: ;1685-169-40;Level 5
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070809.d
Lab Smp Id: 1685-169-50 Client Smp ID: Level 6
Inj Date : 08-JUL-2009 17:07
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-169-50;Level 6
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 08-Jul-2009 17:46 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 17:07 Cal File: v070809.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ccv.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	121706	50.0000	47.46
$ 2 Phenol-d5	99	3.955	3.955	(0.923)	139168	50.0000	46.58
3 Phenol*	94	3.976	3.976	(0.927)	145226	50.0000	47.98
41 Aniline	93	3.934	3.934	(0.918)	174960	50.0000	47.70
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	115207	50.0000	46.63
5 2-Chlorophenol	128	4.069	4.069	(0.949)	101486	50.0000	47.10
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	109941	50.0000	45.40
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	94232	40.0000	
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	112633	50.0000	44.58
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	67609	50.0000	48.75
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	103950	50.0000	44.88
12 2-Methylphenol	108	4.742	4.742	(1.106)	94867	50.0000	46.93
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	172556	50.0000	44.96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	14 4-Methylphenol	108	4.939	4.939	(1.152)	100872	50.0000	47.66
	15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	90789	50.0000	47.86
	16 Hexachloroethane	117	4.939	4.939	(1.152)	47835	50.0000	45.73
$	17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	155120	50.0000	51.03
	18 Nitrobenzene	77	5.074	5.074	(0.854)	140639	50.0000	51.21
	19 Isophorone	82	5.385	5.385	(0.906)	240439	50.0000	51.64
	20 2-Nitrophenol*	139	5.499	5.499	(0.925)	54904	50.0000	54.23
	21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	88592	50.0000	51.65
	24 Benzoic Acid	122	5.820	5.820	(0.979)	52838	50.0000	52.57
	23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	135765	50.0000	49.70
	25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	79660	50.0000	50.60
	26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	94972	50.0000	48.01
*	27 Naphthalene-d8	136	5.945	5.945	(1.000)	209681	40.0000	
	28 Naphthalene	128	5.965	5.965	(1.003)	287949	50.0000	48.45
	29 4-Chloroaniline	127	6.100	6.100	(1.026)	125467	50.0000	50.10
	30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	49038	50.0000	49.36
	32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	96805	50.0000	53.06
	33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	197805	50.0000	50.00
	145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	189006	50.0000	48.96
	35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	47586	50.0000	53.44
	36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	58685	50.0000	52.31
	37 2,4,5-Trichlorophenol	196	7.312	7.312	(0.896)	58746	50.0000	51.61
	39 2-Chloronaphthalene	162	7.447	7.447	(0.912)	183075	50.0000	49.46
	40 2-Nitroaniline	65	7.644	7.644	(0.937)	74720	50.0000	53.31
	42 Dimethylphthalate	163	7.945	7.945	(0.973)	208563	50.0000	49.21
	44 2,6-Dinitrotoluene	165	8.007	8.007	(0.981)	49143	50.0000	50.74
	45 Acenaphthylene	152	7.965	7.965	(0.976)	297158	50.0000	50.98
	46 3-Nitroaniline	138	8.162	8.162	(1.000)	55688	50.0000	52.06
*	47 Acenaphthene-d10	164	8.162	8.162	(1.000)	114283	40.0000	
	48 Acenaphthene*	154	8.193	8.193	(1.004)	177806	50.0000	49.41
	49 2,4-Dinitrophenol**	184	8.287	8.287	(1.015)	22782	50.0000	59.47
	50 4-Nitrophenol**	109	8.432	8.432	(1.033)	34452	50.0000	50.15
	51 Dibenzofuran	168	8.390	8.390	(1.028)	252950	50.0000	49.13
	52 2,4-Dinitrotoluene	165	8.473	8.473	(1.038)	67278	50.0000	52.90
	56 Diethylphthalate	149	8.825	8.825	(1.081)	226506	50.0000	50.43
$	147 Fluorene-d10	176	8.774	8.774	(1.075)	205886	50.0000	49.01
	58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	95347	50.0000	47.89
	57 Fluorene	166	8.805	8.805	(1.079)	209134	50.0000	48.89
	59 4-Nitroaniline	138	8.908	8.908	(1.091)	55448	50.0000	51.15
	60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	35207	50.0000	59.39
	61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	183205	50.0000	48.86
$	62 2,4,6-Tribromophenol	330	9.126	9.126	(1.118)	33961	50.0000	52.25
	65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	54959	50.0000	49.97
	66 Hexachlorobenzene	284	9.572	9.572	(0.964)	58627	50.0000	48.02
	68 Pentachlorophenol*	266	9.800	9.800	(0.987)	32254	50.0000	52.82
*	71 Phenanthrene-d10	188	9.924	9.924	(1.000)	221485	40.0000	
	72 Phenanthrene	178	9.955	9.955	(1.003)	318788	50.0000	48.07(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
73 Anthracene	178	10.007	10.007	(1.008)	318146	50.0000	49.84
144 Carbazole	167	10.224	10.224	(2.385)	285468	50.0000	46.84
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	365569	50.0000	52.22
$ 83 Fluoranthene-d10	212	11.364	11.364	(1.145)	243049	50.0000	51.49
80 Fluoranthene*	202	11.385	11.385	(1.147)	314418	50.0000	49.90
$ 148 Pyrene-d10	212	11.624	11.624	(0.866)	276955	50.0000	47.55
81 Pyrene	202	11.655	11.655	(0.868)	334884	50.0000	48.58
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	156665	50.0000	54.93
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	106451	50.0000	51.63
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	285021	50.0000	51.51
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	186936	40.0000	
91 Chrysene	228	13.468	13.468	(1.003)	280411	50.0000	44.17
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	215079	50.0000	54.24
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.945)	340599	50.0000	57.26
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.968)	275796	50.0000	51.76
96 Benzo(k)fluoranthene	252	15.261	15.261	(0.971)	312554	50.0000	50.38(H)
97 Benzo(e)pyrene	252	15.675	15.675	(0.997)	265496	50.0000	51.22(H)
$ 101 Benzo(a)pyrene-d12	264	15.717	15.717	(1.000)	170939	50.0000	54.04
98 Benzo(a)pyrene*	252	15.758	15.758	(1.003)	274843	50.0000	51.53(H)
* 99 Perylene-d12	264	15.852	15.852	(1.000)	149026	40.0000	(H)
103 Indeno(1,2,3-cd)pyrene	276	17.603	17.603	(1.120)	229512	50.0000	54.54
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.123)	215538	50.0000	51.73
105 Benzo(g,h,i)perylene	276	17.986	17.986	(1.144)	260011	50.0000	51.83

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 08-Jul-2009 17:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070809.d
Lab Smp Id: 1685-169-50
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 17:07
Client Smp ID: Level 6
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	94232	47116	188464	94232	0.00
27 Naphthalene-d8	209681	104840	419362	209681	0.00
47 Acenaphthene-d10	114283	57142	228566	114283	0.00
71 Phenanthrene-d10	221485	110742	442970	221485	0.00
90 Chrysene-d12	186936	93468	373872	186936	0.00
99 Perylene-d12	149026	74513	298052	149026	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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.

0190

Data File: /chem/msdv.i/08jul09.b/v070809.d
Date : 08-JUL-2009 17:07
Client ID: Level 6
Sample Info: ;1685-169-50;Level 6
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070810.d
Lab Smp Id: 1685-168A-80 Client Smp ID: Level 7
Inj Date : 08-JUL-2009 17:34
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-168A-80;Level 7
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 09-Jul-2009 09:19 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 17:34 Cal File: v070810.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	214140	80.0000	71.26
$ 2 Phenol-d5	99	3.965	3.955	(0.925)	245035	80.0000	70.18
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	271449	80.0000	80.48
$ 62 2,4,6-Tribromophenol	330	9.136	9.126	(1.119)	60626	80.0000	82.87
$ 147 Fluorene-d10	176	8.784	8.774	(1.076)	359878	80.0000	77.12
$ 148 Pyrene-d10	212	11.634	11.624	(0.866)	478804	80.0000	75.65
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	112836	40.0000	
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	232426	40.0000	
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	127713	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	241911	40.0000	
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	204969	40.0000	
* 99 Perylene-d12	264	15.852	15.852	(1.000)	162719	40.0000	
3 Phenol*	94	3.976	3.976	(0.927)	250502	80.0000	70.72

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
41 Aniline	93	3.934	3.934	(0.918)	306070	80.0000	70.99
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	200146	80.0000	69.18
5 2-Chlorophenol	128	4.069	4.069	(0.949)	178351	80.0000	70.73
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	193177	80.0000	68.25
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	198759	80.0000	67.42
10 Benzyl Alcohol	108	4.535	4.525	(1.058)	125210	80.0000	76.02
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	181869	80.0000	67.30
12 2-Methylphenol	108	4.742	4.742	(1.106)	169239	80.0000	71.41
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	297271	80.0000	66.51
14 4-Methylphenol	108	4.939	4.939	(1.152)	178652	80.0000	71.92
15 N-Nitrosodipropylamine**	70	4.929	4.919	(1.150)	159043	80.0000	71.29
16 Hexachloroethane	117	4.939	4.939	(1.152)	82902	80.0000	67.86
18 Nitrobenzene	77	5.074	5.074	(0.854)	245032	80.0000	80.42
19 Isophorone	82	5.395	5.385	(0.908)	425651	80.0000	82.12
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	99387	80.0000	87.01
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	155604	80.0000	81.53
23 bis(2-Chloroethoxy)methane	93	5.737	5.727	(0.965)	241051	80.0000	79.66
24 Benzoic Acid	122	5.851	5.820	(0.984)	99077	80.0000	86.52
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	140419	80.0000	80.39
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	165404	80.0000	76.06
28 Naphthalene	128	5.976	5.965	(1.005)	513820	80.0000	78.28
29 4-Chloroaniline	127	6.110	6.100	(1.028)	220083	80.0000	79.42
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	85717	80.0000	78.13
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	165359	80.0000	81.46
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	338381	80.0000	77.56
145 1-Methylnaphthalene	142	6.991	6.981	(1.176)	330619	80.0000	77.64
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	86593	80.0000	85.15
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	105261	80.0000	83.27
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	105171	80.0000	82.22
39 2-Chloronaphthalene	162	7.457	7.447	(0.914)	317772	80.0000	77.26
40 2-Nitroaniline	65	7.654	7.644	(0.938)	139651	80.0000	87.49
46 3-Nitroaniline	138	8.173	8.162	(1.001)	102424	80.0000	84.48
42 Dimethylphthalate	163	7.955	7.945	(0.975)	364270	80.0000	77.41
44 2,6-Dinitrotoluene	165	8.017	8.007	(0.982)	91273	80.0000	83.57
45 Acenaphthylene	152	7.965	7.965	(0.976)	504454	80.0000	77.79
48 Acenaphthene*	154	8.204	8.193	(1.005)	307737	80.0000	77.00
49 2,4-Dinitrophenol**	184	8.287	8.287	(1.015)	50813	80.0000	105.9
50 4-Nitrophenol**	109	8.442	8.432	(1.034)	68046	80.0000	86.31
52 2,4-Dinitrotoluene	165	8.483	8.473	(1.039)	123777	80.0000	85.83
51 Dibenzofuran	168	8.390	8.390	(1.028)	439288	80.0000	76.85
56 Diethylphthalate	149	8.825	8.825	(1.081)	387865	80.0000	77.71
57 Fluorene	166	8.815	8.805	(1.080)	369484	80.0000	77.67
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	167026	80.0000	75.74
59 4-Nitroaniline	138	8.919	8.908	(1.093)	98311	80.0000	80.92
60 4,6-Dinitro-2-methylphenol	198	8.971	8.960	(0.904)	68927	80.0000	99.85
61 N-nitrosodiphenylamine*	169	9.012	9.002	(0.908)	315773	80.0000	77.67
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	94963	80.0000	79.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	100809	80.0000	76.19
144 Carbazole	167	10.235	10.224	(2.388)	522857	80.0000	72.73
68 Pentachlorophenol*	266	9.810	9.800	(0.988)	60330	80.0000	87.60
72 Phenanthrene	178	9.955	9.955	(1.003)	549695	80.0000	76.45(H)
73 Anthracene	178	10.007	10.007	(1.008)	549741	80.0000	79.02
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	647201	80.0000	83.83
80 Fluoranthene*	202	11.385	11.385	(1.147)	542003	80.0000	78.94
81 Pyrene	202	11.655	11.655	(0.868)	568996	80.0000	75.93
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	285931	80.0000	89.31
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	182907	80.0000	80.68
88 Benzo(a)Anthracene	228	13.406	13.396	(0.998)	501810	80.0000	82.31
91 Chrysene	228	13.468	13.468	(1.003)	481388	80.0000	70.52
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	389709	80.0000	87.87
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	639678	80.0000	94.83
95 Benzo(b)fluoranthene	252	15.230	15.219	(0.961)	506039	80.0000	85.90
96 Benzo(k)fluoranthene	252	15.271	15.261	(0.963)	515258	80.0000	76.60
97 Benzo(e)pyrene	252	15.686	15.675	(0.990)	454492	80.0000	80.26
98 Benzo(a)pyrene*	252	15.769	15.758	(0.995)	480909	80.0000	82.20
103 Indeno(1,2,3-cd)pyrene	276	17.613	17.603	(1.111)	411346	80.0000	88.03
104 Dibenzo(a,h)anthracene	278	17.665	17.655	(1.114)	401518	80.0000	86.97
105 Benzo(g,h,i)perylene	276	17.997	17.986	(1.135)	454678	80.0000	82.57

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 09-Jul-2009 09:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070810.d
Lab Smp Id: 1685-168A-80
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 17:07
Client Smp ID: Level 7
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	94232	47116	188464	112836	19.74
27 Naphthalene-d8	209681	104840	419362	232426	10.85
47 Acenaphthene-d10	114283	57142	228566	127713	11.75
71 Phenanthrene-d10	221485	110742	442970	241911	9.22
90 Chrysene-d12	186936	93468	373872	204969	9.65
99 Perylene-d12	149026	74513	298052	162719	9.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	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.

0195

Data File: /chem/msdv.i/08jul09.b/v070810.d
Date : 08-JUL-2009 17:34
Client ID: Level 7
Sample Info: ;1685-168A-80;Level 7
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070811.d
Lab Smp Id: 1685-168A-100 Client Smp ID: Level 8
Inj Date : 08-JUL-2009 18:02
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-168A-100;Level 8
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 09-Jul-2009 09:19 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:02 Cal File: v070811.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	298925	100.000	91.52
$ 2 Phenol-d5	99	3.965	3.955	(0.925)	343097	100.000	90.54
$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	388968	100.000	108.3
$ 62 2,4,6-Tribromophenol	330	9.136	9.126	(1.119)	81999	100.000	103.7
$ 147 Fluorene-d10	176	8.784	8.774	(1.076)	487700	100.000	97.65
$ 148 Pyrene-d10	212	11.634	11.624	(0.866)	640428	100.000	96.86
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	124384	40.0000	
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	244660	40.0000	
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	137154	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	255333	40.0000	
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	215074	40.0000	
* 99 Perylene-d12	264	15.862	15.852	(1.000)	171075	40.0000	
3 Phenol*	94	3.975	3.976	(0.927)	344233	100.000	89.68

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
41 Aniline	93	3.934	3.934	(0.918)	420749	100.000	89.82
4 bis(2-Chloroethyl)ether	93	4.038	4.027	(0.942)	280918	100.000	89.42
5 2-Chlorophenol	128	4.079	4.069	(0.952)	247995	100.000	90.61
6 1,3-Dichlorobenzene	146	4.245	4.235	(0.990)	258983	100.000	84.80
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	271305	100.000	85.24
10 Benzyl Alcohol	108	4.535	4.525	(1.058)	167872	100.000	93.34
11 1,2-Dichlorobenzene	146	4.556	4.546	(1.063)	250060	100.000	85.67
12 2-Methylphenol	108	4.742	4.742	(1.106)	238107	100.000	92.31
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	411403	100.000	85.26
14 4-Methylphenol	108	4.950	4.939	(1.155)	241255	100.000	89.62
15 N-Nitrosodipropylamine**	70	4.929	4.919	(1.150)	218978	100.000	90.28
16 Hexachloroethane	117	4.939	4.939	(1.152)	112053	100.000	84.99
18 Nitrobenzene	77	5.084	5.074	(0.855)	354793	100.000	109.2
19 Isophorone	82	5.395	5.385	(0.908)	588098	100.000	106.7
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	137295	100.000	111.9
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	205466	100.000	101.9
23 bis(2-Chloroethoxy)methane	93	5.737	5.727	(0.965)	338667	100.000	105.5
24 Benzoic Acid	122	5.872	5.820	(0.988)	142698	100.000	114.2
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	191914	100.000	103.7
26 1,2,4-Trichlorobenzene	180	5.913	5.903	(0.995)	229963	100.000	100.4
28 Naphthalene	128	5.976	5.965	(1.005)	699418	100.000	101.1
29 4-Chloroaniline	127	6.110	6.100	(1.028)	322984	100.000	108.8
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	115633	100.000	100.1
32 4-Chloro-3-Methylphenol*	107	6.784	6.774	(1.141)	242882	100.000	111.5
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	460603	100.000	100.2
145 1-Methylnaphthalene	142	6.991	6.981	(1.176)	457748	100.000	101.8
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	124861	100.000	111.1
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	142849	100.000	104.4
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	145945	100.000	105.3
39 2-Chloronaphthalene	162	7.457	7.447	(0.914)	452939	100.000	102.2
40 2-Nitroaniline	65	7.654	7.644	(0.938)	195424	100.000	111.8
46 3-Nitroaniline	138	8.172	8.162	(1.001)	131576	100.000	100.9
42 Dimethylphthalate	163	7.955	7.945	(0.975)	491985	100.000	97.73
44 2,6-Dinitrotoluene	165	8.017	8.007	(0.982)	119893	100.000	101.9
45 Acenaphthylene	152	7.965	7.965	(0.976)	684834	100.000	98.54
48 Acenaphthene*	154	8.204	8.193	(1.005)	434186	100.000	101.0
49 2,4-Dinitrophenol**	184	8.297	8.287	(1.016)	77960	100.000	137.2
50 4-Nitrophenol**	109	8.442	8.432	(1.034)	89451	100.000	104.5
52 2,4-Dinitrotoluene	165	8.483	8.473	(1.039)	168159	100.000	107.3
51 Dibenzofuran	168	8.400	8.390	(1.029)	614125	100.000	100.0
56 Diethylphthalate	149	8.825	8.825	(1.081)	527716	100.000	98.67
57 Fluorene	166	8.815	8.805	(1.080)	488024	100.000	96.07
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	223443	100.000	95.02
59 4-Nitroaniline	138	8.929	8.908	(1.094)	138523	100.000	105.1
60 4,6-Dinitro-2-methylphenol	198	8.970	8.960	(0.904)	98291	100.000	127.5
61 N-nitrosodiphenylamine*	169	9.012	9.002	(0.908)	430983	100.000	100.4
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	127506	100.000	100.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 Hexachlorobenzene	284	9.571	9.572	(0.964)	137890	100.000	98.90
144 Carbazole	167	10.235	10.224	(2.388)	687232	100.000	88.18
68 Pentachlorophenol*	266	9.810	9.800	(0.988)	88820	100.000	117.0
72 Phenanthrene	178	9.955	9.955	(1.003)	725964	100.000	96.18(H)
73 Anthracene	178	10.007	10.007	(1.008)	749694	100.000	101.8
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	880140	100.000	106.8
80 Fluoranthene*	202	11.385	11.385	(1.147)	713500	100.000	98.64
81 Pyrene	202	11.654	11.655	(0.868)	768038	100.000	97.96
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	390790	100.000	113.7
89 3 3'-Dichlorobenzidine	252	13.458	13.447	(1.002)	256015	100.000	106.0
88 Benzo(a)Anthracene	228	13.406	13.396	(0.998)	686776	100.000	106.4
91 Chrysene	228	13.478	13.468	(1.004)	651987	100.000	92.06
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	547195	100.000	114.7
94 Di-n-octyl phthalate*	149	14.867	14.857	(0.937)	907590	100.000	123.1
95 Benzo(b)fluoranthene	252	15.240	15.219	(0.961)	745817	100.000	117.4
96 Benzo(k)fluoranthene	252	15.282	15.261	(0.963)	643436	100.000	92.02
97 Benzo(e)pyrene	252	15.686	15.675	(0.989)	628308	100.000	104.8
98 Benzo(a)pyrene*	252	15.769	15.758	(0.994)	660708	100.000	106.4
103 Indeno(1,2,3-cd)pyrene	276	17.613	17.603	(1.110)	582645	100.000	115.9
104 Dibenzo(a,h)anthracene	278	17.675	17.655	(1.114)	588348	100.000	118.1
105 Benzo(g,h,i)perylene	276	18.007	17.986	(1.135)	624851	100.000	106.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 09-Jul-2009 09:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070811.d
Lab Smp Id: 1685-168A-100
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 17:07
Client Smp ID: Level 8
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	94232	47116	188464	124384	32.00
27 Naphthalene-d8	209681	104840	419362	244660	16.68
47 Acenaphthene-d10	114283	57142	228566	137154	20.01
71 Phenanthrene-d10	221485	110742	442970	255333	15.28
90 Chrysene-d12	186936	93468	373872	215074	15.05
99 Perylene-d12	149026	74513	298052	171075	14.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.86	0.06

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/msdv.i/08jul09.b/v070811.d

Date : 08-JUL-2009 18:02

Client ID: Level 8

Sample Info: ;1685-168A-100;Level 8

Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

0200

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070812.d
Lab Smp Id: 1685-168-160 Client Smp ID: Level 9
Inj Date : 08-JUL-2009 18:29
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-168-160;Level 9
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/08jul09.b/bnap0708.m
Meth Date : 09-Jul-2009 09:19 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 12 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 160ng.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	431128	160.000	133.0
$ 2 Phenol-d5	99	3.975	3.955	(0.927)	494980	160.000	131.8
$ 17 Nitrobenzene-d5	82	5.064	5.053	(0.850)	558224	160.000	173.6(A)
$ 62 2,4,6-Tribromophenol	330	9.136	9.126	(1.119)	116617	160.000	169.0(A)
$ 147 Fluorene-d10	176	8.784	8.774	(1.076)	689546	160.000	159.5
$ 148 Pyrene-d10	212	11.644	11.624	(0.867)	914538	160.000	158.2
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	126355	40.0000	
* 27 Naphthalene-d8	136	5.955	5.945	(1.000)	216599	40.0000	
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	118778	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	228921	40.0000	
* 90 Chrysene-d12	240	13.437	13.427	(1.000)	188377	40.0000	
* 99 Perylene-d12	264	15.862	15.852	(1.000)	153538	40.0000	
3 Phenol*	94	3.986	3.976	(0.930)	478388	160.000	126.4

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
41 Aniline	93	3.944	3.934	(0.920)	632837	160.000	135.5
4 bis(2-Chloroethyl)ether	93	4.038	4.027	(0.942)	402903	160.000	129.3
5 2-Chlorophenol	128	4.079	4.069	(0.952)	362331	160.000	133.4
6 1,3-Dichlorobenzene	146	4.245	4.235	(0.990)	381385	160.000	126.2
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	391184	160.000	124.4
10 Benzyl Alcohol	108	4.545	4.525	(1.060)	259530	160.000	143.8
11 1,2-Dichlorobenzene	146	4.556	4.546	(1.063)	353347	160.000	122.6
12 2-Methylphenol	108	4.742	4.742	(1.106)	330853	160.000	129.7
13 bis(2-Chloroisopropyl)ether	45	4.753	4.742	(1.109)	572297	160.000	120.4
14 4-Methylphenol	108	4.950	4.939	(1.155)	355316	160.000	133.1
15 N-Nitrosodipropylamine**	70	4.939	4.919	(1.152)	301292	160.000	125.6(H)
16 Hexachloroethane	117	4.939	4.939	(1.152)	159933	160.000	122.9
18 Nitrobenzene	77	5.084	5.074	(0.854)	469005	160.000	162.7(A)
19 Isophorone	82	5.406	5.385	(0.908)	870086	160.000	176.1(A)
20 2-Nitrophenol*	139	5.499	5.499	(0.923)	193637	160.000	175.8(A)
21 2,4-Dimethylphenol	122	5.634	5.623	(0.946)	316547	160.000	175.0(A)
23 bis(2-Chloroethoxy)methane	93	5.737	5.727	(0.963)	478865	160.000	167.5(A)
24 Benzoic Acid	122	5.903	5.820	(0.991)	218593	160.000	190.1(A)
25 2,4-Dichlorophenol*	162	5.830	5.820	(0.979)	285301	160.000	172.3(A)
26 1,2,4-Trichlorobenzene	180	5.913	5.903	(0.993)	327803	160.000	161.5(A)
28 Naphthalene	128	5.976	5.965	(1.003)	965975	160.000	157.9
29 4-Chloroaniline	127	6.110	6.100	(1.026)	428198	160.000	162.5(A)
30 Hexachlorobutadiene*	225	6.245	6.235	(1.049)	168967	160.000	164.6(A)
32 4-Chloro-3-Methylphenol*	107	6.784	6.774	(1.139)	360568	160.000	183.1(A)
33 2-Methylnaphthalene	142	6.856	6.856	(1.151)	664593	160.000	163.0(A)
145 1-Methylnaphthalene	142	6.991	6.981	(1.174)	627888	160.000	158.0
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	180416	160.000	180.6(A)
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	202685	160.000	169.6(A)
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	214092	160.000	175.8(A)
39 2-Chloronaphthalene	162	7.457	7.447	(0.914)	611261	160.000	159.4
40 2-Nitroaniline	65	7.654	7.644	(0.938)	265564	160.000	173.3(A)
46 3-Nitroaniline	138	8.183	8.162	(1.003)	204350	160.000	177.6(A)
42 Dimethylphthalate	163	7.965	7.945	(0.976)	675731	160.000	155.6
44 2,6-Dinitrotoluene	165	8.027	8.007	(0.983)	188945	160.000	181.8(A)
45 Acenaphthylene	152	7.976	7.965	(0.977)	991741	160.000	164.2(A)
48 Acenaphthene*	154	8.204	8.193	(1.005)	581668	160.000	156.7
49 2,4-Dinitrophenol**	184	8.297	8.287	(1.016)	116316	160.000	219.0(A)
50 4-Nitrophenol**	109	8.452	8.432	(1.036)	142353	160.000	185.8(A)
52 2,4-Dinitrotoluene	165	8.494	8.473	(1.041)	235117	160.000	171.4(A)
51 Dibenzofuran	168	8.400	8.390	(1.029)	842988	160.000	158.7
56 Diethylphthalate	149	8.836	8.825	(1.083)	740828	160.000	160.0
57 Fluorene	166	8.825	8.805	(1.081)	715889	160.000	162.4(AH)
58 4-Chlorophenyl phenyl ether	204	8.856	8.846	(1.085)	332565	160.000	162.9(A)
59 4-Nitroaniline	138	8.939	8.908	(1.095)	206967	160.000	177.9(A)
60 4,6-Dinitro-2-methylphenol	198	8.981	8.960	(0.905)	142607	160.000	198.1(A)
61 N-nitrosodiphenylamine*	169	9.022	9.002	(0.909)	639889	160.000	165.3(A)
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	184678	160.000	162.3(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
66 Hexachlorobenzene	284	9.582	9.572	(0.966)	195883	160.000	157.1
144 Carbazole	167	10.235	10.224	(2.388)	1000948	160.000	129.4
68 Pentachlorophenol*	266	9.810	9.800	(0.988)	127628	160.000	182.3(A)
72 Phenanthrene	178	9.955	9.955	(1.003)	1087978	160.000	160.7(AH)
73 Anthracene	178	10.017	10.007	(1.009)	1132154	160.000	170.2(A)
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	1239275	160.000	166.7(A)
80 Fluoranthene*	202	11.395	11.385	(1.148)	1068514	160.000	164.2(A)
81 Pyrene	202	11.665	11.655	(0.868)	1062964	160.000	155.3
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	577442	160.000	187.1(A)
89 3 3'-Dichlorobenzidine	252	13.458	13.447	(1.002)	364150	160.000	170.0(A)
88 Benzo(a)Anthracene	228	13.416	13.396	(0.998)	976531	160.000	171.2(A)
91 Chrysene	228	13.489	13.468	(1.004)	936408	160.000	151.9
93 bis(2-ethylhexyl)Phthalate	149	13.779	13.769	(1.025)	778384	160.000	182.5(A)
94 Di-n-octyl phthalate*	149	14.867	14.857	(0.937)	1308185	160.000	192.0(A)
95 Benzo(b)fluoranthene	252	15.240	15.219	(0.961)	978015	160.000	170.2(A)
96 Benzo(k)fluoranthene	252	15.292	15.261	(0.964)	1028693	160.000	163.5(A)
97 Benzo(e)pyrene	252	15.696	15.675	(0.990)	913171	160.000	168.6(A)
98 Benzo(a)pyrene*	252	15.789	15.758	(0.995)	960745	160.000	171.0(A)
103 Indeno(1,2,3-cd)pyrene	276	17.624	17.603	(1.111)	910339	160.000	196.1(A)
104 Dibenzo(a,h)anthracene	278	17.686	17.655	(1.115)	814099	160.000	179.3(A)
105 Benzo(g,h,i)perylene	276	18.017	17.986	(1.136)	914161	160.000	172.5(A)

QC Flag Legend

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

Report Date: 09-Jul-2009 09:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070812.d
Lab Smp Id: 1685-168-160
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 17:07
Client Smp ID: Level 9
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	94232	47116	188464	126355	34.09
27 Naphthalene-d8	209681	104840	419362	216599	3.30
47 Acenaphthene-d10	114283	57142	228566	118778	3.93
71 Phenanthrene-d10	221485	110742	442970	228921	3.36
90 Chrysene-d12	186936	93468	373872	188377	0.77
99 Perylene-d12	149026	74513	298052	153538	3.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.95	0.17
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.44	0.08
99 Perylene-d12	15.85	15.35	16.35	15.86	0.06

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.

0205

Data File: /chem/msdv.i/08jul09.b/v070812.d
Date : 08-JUL-2009 18:29
Client ID: Level 9
Sample Info: ;1685-168-160;Level 9
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 09-JUL-2009 15:37
Lab File ID: v070909.d Init. Cal. Date(s): 08-JUL-2009 08-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 14:51 18:29
Lab Sample ID: 1685-159-50 Quant Type: ISTD
Method: /chem/msdv.i/09jul09a.b/bnap0708.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.02572	0.99456	0.050	3.03775	30.00000	Averaged
$ 2 Phenol-d5	1.18868	1.14511	0.050	3.66570	30.00000	Averaged
3 Phenol*	1.19843	1.18469	0.050	1.14605	30.00000	Averaged
41 Aniline	1.47820	1.43954	0.050	2.61550	30.00000	Averaged
4 bis(2-Chloroethyl)ether	0.98662	0.92439	0.050	6.30747	30.00000	Averaged
5 2-Chlorophenol	0.85973	0.83727	0.050	2.61214	30.00000	Averaged
6 1,3-Dichlorobenzene	0.95683	0.88683	0.050	7.31505	30.00000	Averaged
9 1,4-Dichlorobenzene*	0.99576	0.92214	0.050	7.39291	30.00000	Averaged
10 Benzyl Alcohol	0.57114	0.58068	0.050	-1.66988	30.00000	Averaged
11 1,2-Dichlorobenzene	0.91208	0.85966	0.050	5.74727	30.00000	Averaged
12 2-Methylphenol	0.80761	0.80926	0.050	-0.20339	30.00000	Averaged
13 bis(2-Chloroisopropyl)ether	1.50516	1.40305	0.050	6.78393	30.00000	Averaged
14 4-Methylphenol	0.84531	0.85328	0.050	-0.94248	30.00000	Averaged
15 N-Nitrosodipropylamine**	0.75961	0.77930	0.050	-2.59176	30.00000	Averaged
16 Hexachloroethane	0.41204	0.39375	0.050	4.43731	30.00000	Averaged
$ 17 Nitrobenzene-d5	0.59373	0.55826	0.050	5.97471	30.00000	Averaged
18 Nitrobenzene	0.53246	0.49858	0.050	6.36194	30.00000	Averaged
19 Isophorone	0.91225	0.89261	0.050	2.15275	30.00000	Averaged
20 2-Nitrophenol*	0.20343	0.19770	0.050	2.81972	30.00000	Averaged
21 2,4-Dimethylphenol	0.33401	0.32373	0.050	3.07777	30.00000	Averaged
24 Benzoic Acid	0.21232	0.18309	0.050	13.76669	30.00000	Averaged
23 bis(2-Chloroethoxy)methane	0.52798	0.50378	0.050	4.58351	30.00000	Averaged
25 2,4-Dichlorophenol*	0.30584	0.29329	0.050	4.10205	30.00000	Averaged
26 1,2,4-Trichlorobenzene	0.37490	0.34459	0.050	8.08636	30.00000	Averaged
28 Naphthalene	1.12956	1.07536	0.050	4.79769	30.00000	Averaged
29 4-Chloroaniline	0.48670	0.46470	0.050	4.51872	30.00000	Averaged
30 Hexachlorobutadiene*	0.18952	0.17247	0.050	8.99803	30.00000	Averaged
32 4-Chloro-3-Methylphenol*	0.36366	0.35907	0.050	1.26297	30.00000	Averaged
33 2-Methylnaphthalene	0.75292	0.69661	0.050	7.47885	30.00000	Averaged
145 1-Methylnaphthalene	0.73364	0.70624	0.050	3.73496	30.00000	Averaged
35 Hexachlorocyclopentadiene**	0.33633	0.31619	0.050	5.98706	30.00000	Averaged
36 2,4,6-Trichlorophenol*	0.40233	0.37700	0.050	6.29642	30.00000	Averaged
37 2,4,5-Trichlorophenol	0.41000	0.39152	0.050	4.50703	30.00000	Averaged
39 2-Chloronaphthalene	1.29165	1.17548	0.050	8.99356	30.00000	Averaged
40 2-Nitroaniline	0.51606	0.51443	0.050	0.31522	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 09-JUL-2009 15:37
Lab File ID: v070909.d Init. Cal. Date(s): 08-JUL-2009 08-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 14:51 18:29
Lab Sample ID: 1685-159-50 Quant Type: ISTD
Method: /chem/msdv.i/09jul09a.b/bnap0708.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
42 Dimethylphthalate	1.46246	1.34766	0.050	7.84968	30.00000	Averaged
44 2,6-Dinitrotoluene	0.34997	0.34167	0.050	2.37231	30.00000	Averaged
45 Acenaphthylene	2.03350	1.91367	0.050	5.89297	30.00000	Averaged
46 3-Nitroaniline	0.38750	0.37855	0.050	2.31000	30.00000	Averaged
48 Acenaphthene*	1.25035	1.14313	0.050	8.57495	30.00000	Averaged
49 2,4-Dinitrophenol**	0.17890	0.13763	0.050	23.06508	30.00000	Averaged
50 4-Nitrophenol**	0.25804	0.24711	0.050	4.23692	30.00000	Averaged
51 Dibenzofuran	1.78867	1.63453	0.050	8.61757	30.00000	Averaged
52 2,4-Dinitrotoluene	0.46192	0.46044	0.050	0.32002	30.00000	Averaged
56 Diethylphthalate	1.55971	1.55480	0.050	0.31494	30.00000	Averaged
$ 147 Fluorene-d10	1.45602	1.35331	0.050	7.05417	30.00000	Averaged
58 4-Chlorophenyl phenyl ether	0.68739	0.63012	0.050	8.33226	30.00000	Averaged
57 Fluorene	1.48434	1.36037	0.050	8.35210	30.00000	Averaged
59 4-Nitroaniline	0.39174	0.39078	0.050	0.24313	30.00000	Averaged
60 4,6-Dinitro-2-methylphenol	0.12578	0.12251	0.050	2.59761	30.00000	Averaged
61 N-nitrosodiphenylamine*	0.67644	0.63077	0.050	6.75084	30.00000	Averaged
$ 62 2,4,6-Tribromophenol	0.23243	0.21931	0.050	5.64283	30.00000	Averaged
65 4-Bromophenyl phenyl ether	0.19884	0.18376	0.050	7.58346	30.00000	Averaged
66 Hexachlorobenzene	0.21792	0.19527	0.050	10.39517	30.00000	Averaged
68 Pentachlorophenol*	0.12234	0.11745	0.050	3.99569	30.00000	Averaged
72 Phenanthrene	1.18310	1.12297	0.050	5.08224	30.00000	Averaged
73 Anthracene	1.16260	1.10346	0.050	5.08677	30.00000	Averaged
144 Carbazole	2.44783	2.56171	0.050	-4.65207	30.00000	Averaged
78 Di-n-butylphthalate	1.29899	1.29286	0.050	0.47245	30.00000	Averaged
$ 83 Fluoranthene-d10	0.85242	0.84405	0.050	0.98187	30.00000	Averaged
80 Fluoranthene*	1.13689	1.08751	0.050	4.34319	30.00000	Averaged
$ 148 Pyrene-d10	1.22786	1.11166	0.050	9.46309	30.00000	Averaged
81 Pyrene	1.45294	1.35766	0.050	6.55765	30.00000	Averaged
85 Butyl benzyl phthalate	0.65523	0.66590	0.050	-1.62824	30.00000	Averaged
89 3 3'-Dichlorobenzidine	0.45487	0.43829	0.050	3.64479	30.00000	Averaged
88 Benzo(a)Anthracene	1.21131	1.16268	0.050	4.01467	30.00000	Averaged
91 Chrysene	1.30892	1.11526	0.050	14.79541	30.00000	Averaged
93 bis(2-ethylhexyl)Phthalate	0.90545	0.91114	0.050	-0.62779	30.00000	Averaged
94 Di-n-octyl phthalate*	1.77512	1.81937	0.050	-2.49278	30.00000	Averaged
95 Benzo(b)fluoranthene	1.49697	1.50874	0.050	-0.78651	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 09-JUL-2009 15:37
Lab File ID: v070909.d Init. Cal. Date(s): 08-JUL-2009 08-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 14:51 18:29
Lab Sample ID: 1685-159-50 Quant Type: ISTD
Method: /chem/msdv.i/09jul09a.b/bnap0708.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
96 Benzo(k)fluoranthene	1.63940	1.43671	0.050	12.36349	30.00000	Averaged
97 Benzo(e)pyrene	1.41115	1.29470	0.050	8.25231	30.00000	Averaged
$ 101 Benzo(a)pyrene-d12	0.84908	0.84974	0.050	-0.07736	30.00000	Averaged
98 Benzo(a)pyrene*	1.46402	1.37713	0.050	5.93513	30.00000	Averaged
103 Indeno(1,2,3-cd)pyrene	1.20948	1.14975	0.050	4.93895	30.00000	Averaged
104 Dibenzo(a,h)anthracene	1.18280	1.08724	0.050	8.07867	30.00000	Averaged
105 Benzo(g,h,i)perylene	1.38059	1.28796	0.050	6.70927	30.00000	Averaged

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/09jul09a.b/v070909.d
Lab Smp Id: 1685-159-50 Client Smp ID: ccv
Inj Date : 09-JUL-2009 15:37
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-159-50;ccv
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/09jul09a.b/bnap0708.m
Meth Date : 09-Jul-2009 16:15 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 50ccv.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	2.856	2.856	(0.670)	121089	50.0000	48.48
$ 2 Phenol-d5	99	3.944	3.944	(0.925)	139418	50.0000	48.17
3 Phenol*	94	3.955	3.955	(0.927)	144238	50.0000	49.43
41 Aniline	93	3.913	3.913	(0.917)	175266	50.0000	48.69
4 bis(2-Chloroethyl)ether	93	4.006	4.006	(0.939)	112546	50.0000	46.85
5 2-Chlorophenol	128	4.048	4.048	(0.949)	101939	50.0000	48.69
6 1,3-Dichlorobenzene	146	4.214	4.214	(0.988)	107973	50.0000	46.34
* 7 1,4-Dichlorobenzene-d4	150	4.266	4.266	(1.000)	97401	40.0000	
9 1,4-Dichlorobenzene*	146	4.286	4.286	(1.005)	112272	50.0000	46.30
10 Benzyl Alcohol	108	4.514	4.514	(1.058)	70698	50.0000	50.83
11 1,2-Dichlorobenzene	146	4.535	4.535	(1.063)	104665	50.0000	47.13
12 2-Methylphenol	108	4.722	4.722	(1.107)	98528	50.0000	50.10
13 bis(2-Chloroisopropyl)ether	45	4.722	4.722	(1.107)	170823	50.0000	46.61

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	14 4-Methylphenol	108	4.918	4.918	(1.153)	103888	50.0000	50.47
	15 N-Nitrosodipropylamine**	70	4.908	4.908	(1.151)	94881	50.0000	51.30
	16 Hexachloroethane	117	4.929	4.929	(1.155)	47940	50.0000	47.78
$	17 Nitrobenzene-d5	82	5.032	5.032	(0.850)	155733	50.0000	47.01
	18 Nitrobenzene	77	5.053	5.053	(0.853)	139086	50.0000	46.82
	19 Isophorone	82	5.374	5.374	(0.907)	249004	50.0000	48.92
	20 2-Nitrophenol*	139	5.478	5.478	(0.925)	55150	50.0000	48.59
	21 2,4-Dimethylphenol	122	5.602	5.602	(0.946)	90308	50.0000	48.46
	24 Benzoic Acid	122	5.799	5.799	(0.979)	51076	50.0000	43.12
	23 bis(2-Chloroethoxy)methane	93	5.716	5.716	(0.965)	140536	50.0000	47.71
	25 2,4-Dichlorophenol*	162	5.799	5.799	(0.979)	81817	50.0000	47.95
	26 1,2,4-Trichlorobenzene	180	5.893	5.893	(0.995)	96127	50.0000	45.96
*	27 Naphthalene-d8	136	5.924	5.924	(1.000)	223170	40.0000	
	28 Naphthalene	128	5.955	5.955	(1.005)	299986	50.0000	47.60
	29 4-Chloroaniline	127	6.089	6.089	(1.028)	129635	50.0000	47.74
	30 Hexachlorobutadiene*	225	6.224	6.224	(1.051)	48112	50.0000	45.50
	32 4-Chloro-3-Methylphenol*	107	6.763	6.763	(1.142)	100166	50.0000	49.37
	33 2-Methylnaphthalene	142	6.836	6.836	(1.154)	194328	50.0000	46.26
	145 1-Methylnaphthalene	142	6.970	6.970	(1.177)	197014	50.0000	48.13
	35 Hexachlorocyclopentadiene**	237	7.136	7.136	(0.877)	50043	50.0000	47.01
	36 2,4,6-Trichlorophenol*	196	7.250	7.250	(0.891)	59667	50.0000	46.85
	37 2,4,5-Trichlorophenol	196	7.302	7.302	(0.897)	61966	50.0000	47.75
	39 2-Chloronaphthalene	162	7.437	7.437	(0.913)	186042	50.0000	45.50
	40 2-Nitroaniline	65	7.634	7.634	(0.938)	81418	50.0000	49.84
	42 Dimethylphthalate	163	7.934	7.934	(0.975)	213293	50.0000	46.08
	44 2,6-Dinitrotoluene	165	7.996	7.996	(0.982)	54075	50.0000	48.81
	45 Acenaphthylene	152	7.944	7.944	(0.976)	302874	50.0000	47.05
	46 3-Nitroaniline	138	8.152	8.152	(1.001)	59913	50.0000	48.84
*	47 Acenaphthene-d10	164	8.141	8.141	(1.000)	126615	40.0000	
	48 Acenaphthene*	154	8.183	8.183	(1.005)	180922	50.0000	45.71
	49 2,4-Dinitrophenol**	184	8.266	8.266	(1.015)	21783	50.0000	38.47
	50 4-Nitrophenol**	109	8.421	8.421	(1.034)	39109	50.0000	47.88
	51 Dibenzofuran	168	8.380	8.380	(1.029)	258695	50.0000	45.69
	52 2,4-Dinitrotoluene	165	8.463	8.463	(1.039)	72873	50.0000	49.84
	56 Diethylphthalate	149	8.805	8.805	(1.081)	246076	50.0000	49.84
$	147 Fluorene-d10	176	8.763	8.763	(1.076)	214186	50.0000	46.47
	58 4-Chlorophenyl phenyl ether	204	8.825	8.825	(1.084)	99728	50.0000	45.83
	57 Fluorene	166	8.794	8.794	(1.080)	215304	50.0000	45.82
	59 4-Nitroaniline	138	8.898	8.898	(1.093)	61849	50.0000	49.88
	60 4,6-Dinitro-2-methylphenol	198	8.950	8.950	(0.904)	36536	50.0000	48.70
	61 N-nitrosodiphenylamine*	169	8.991	8.991	(0.908)	188113	50.0000	46.62
$	62 2,4,6-Tribromophenol	330	9.115	9.115	(1.120)	34710	50.0000	47.18
	65 4-Bromophenyl phenyl ether	248	9.406	9.406	(0.950)	54802	50.0000	46.21
	66 Hexachlorobenzene	284	9.551	9.551	(0.964)	58235	50.0000	44.80
	68 Pentachlorophenol*	266	9.789	9.789	(0.988)	35027	50.0000	48.00
*	71 Phenanthrene-d10	188	9.903	9.903	(1.000)	238582	40.0000	
	72 Phenanthrene	178	9.934	9.934	(1.003)	334900	50.0000	47.46(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
73 Anthracene	178	9.986	9.986	(1.008)	329083	50.0000	47.46
144 Carbazole	167	10.214	10.214	(2.394)	311891	50.0000	52.33
78 Di-n-butylphthalate	149	10.774	10.774	(1.088)	385565	50.0000	49.76
$ 83 Fluoranthene-d10	212	11.344	11.344	(1.145)	251720	50.0000	49.51
80 Fluoranthene*	202	11.364	11.364	(1.148)	324326	50.0000	47.83
$ 148 Pyrene-d10	212	11.613	11.613	(0.867)	285643	50.0000	45.27
81 Pyrene	202	11.634	11.634	(0.868)	348852	50.0000	46.72
85 Butyl benzyl phthalate	149	12.711	12.711	(0.949)	171103	50.0000	50.81
89 3 3'-Dichlorobenzidine	252	13.427	13.427	(1.002)	112619	50.0000	48.18
88 Benzo(a)Anthracene	228	13.375	13.375	(0.998)	298753	50.0000	47.99
* 90 Chrysene-d12	240	13.395	13.395	(1.000)	205561	40.0000	
91 Chrysene	228	13.437	13.437	(1.003)	286568	50.0000	42.60
93 bis(2-ethylhexyl)Phthalate	149	13.748	13.748	(1.026)	234118	50.0000	50.31
94 Di-n-octyl phthalate*	149	14.826	14.826	(0.945)	386326	50.0000	51.25
95 Benzo(b)fluoranthene	252	15.199	15.199	(0.969)	320366	50.0000	50.39
96 Benzo(k)fluoranthene	252	15.240	15.240	(0.972)	305072	50.0000	43.82(H)
97 Benzo(e)pyrene	252	15.644	15.644	(0.997)	274917	50.0000	45.87(H)
$ 101 Benzo(a)pyrene-d12	264	15.686	15.686	(1.000)	180433	50.0000	50.04
98 Benzo(a)pyrene*	252	15.727	15.727	(1.003)	292420	50.0000	47.03(H)
* 99 Perylene-d12	264	15.831	15.831	(1.000)	169872	40.0000	(H)
103 Indeno(1,2,3-cd)pyrene	276	17.572	17.572	(1.120)	244137	50.0000	47.53
104 Dibenzo(a,h)anthracene	278	17.624	17.624	(1.124)	230865	50.0000	45.96
105 Benzo(g,h,i)perylene	276	17.955	17.955	(1.145)	273486	50.0000	46.64

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 09-Jul-2009 16:15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070909.d
Lab Smp Id: 1685-159-50
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 09-JUL-2009
Calibration Time: 15:37
Client Smp ID: ccv
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	97401	48700	194802	97401	0.00
27 Naphthalene-d8	223170	111585	446340	223170	0.00
47 Acenaphthene-d10	126615	63308	253230	126615	0.00
71 Phenanthrene-d10	238582	119291	477164	238582	0.00
90 Chrysene-d12	205561	102780	411122	205561	0.00
99 Perylene-d12	169872	84936	339744	169872	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
99 Perylene-d12	15.83	15.33	16.33	15.83	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/msdv.i/09jul09a.b/v070909.d

Date : 09-JUL-2009 15:37

Client ID: ccv

Sample Info: ;1685-159-50;ccv

Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25

0213

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0906709B-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070914**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 05:54 PM**
		Date of Extraction: 7/1/09

Compound	%Recovery
Phenol	82
bis(2-Chloroethyl) Ether	Not Spiked
2-Chlorophenol	78
1,3-Dichlorobenzene	Not Spiked
1,4-Dichlorobenzene	71
1,2-Dichlorobenzene	Not Spiked
2-Methylphenol (o-Cresol)	Not Spiked
bis(2-Chloroisopropyl) Ether	Not Spiked
N-Nitroso-di-n-propylamine	79
4-Methylphenol/3-Methylphenol	Not Spiked
Hexachloroethane	Not Spiked
Nitrobenzene	Not Spiked
Isophorone	Not Spiked
2-Nitrophenol	Not Spiked
2,4-Dimethylphenol	Not Spiked
Benzoic Acid	Not Spiked
bis(2-Chloroethoxy) Methane	Not Spiked
2,4-Dichlorophenol	Not Spiked
1,2,4-Trichlorobenzene	71
Naphthalene	Not Spiked
4-Chloroaniline	Not Spiked
Hexachlorobutadiene	Not Spiked
4-Chloro-3-methylphenol	81
2-Methylnaphthalene	Not Spiked
Hexachlorocyclopentadiene	Not Spiked
2,4,6-Trichlorophenol	Not Spiked
2,4,5-Trichlorophenol	Not Spiked
2-Chloronaphthalene	Not Spiked
2-Nitroaniline	Not Spiked
Dimethylphthalate	Not Spiked
Acenaphthylene	Not Spiked
2,6-Dinitrotoluene	Not Spiked
3-Nitroaniline	Not Spiked
Acenaphthene	73
2,4-Dinitrophenol	Not Spiked
4-Nitrophenol	57
2,4-Dinitrotoluene	73
Dibenzofuran	Not Spiked

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0906709B-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	**v070914**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/09 05:54 PM**
		Date of Extraction: 7/1/09

Compound	%Recovery
Diethylphthalate	Not Spiked
Fluorene	Not Spiked
4-Chlorophenyl-phenyl Ether	Not Spiked
4-Nitroaniline	Not Spiked
4,6-Dinitro-2-methylphenol	Not Spiked
N-Nitrosodiphenylamine	Not Spiked
4-Bromophenyl-phenyl Ether	Not Spiked
Hexachlorobenzene	Not Spiked
Pentachlorophenol	42
Phenanthrene	Not Spiked
Anthracene	Not Spiked
di-n-Butylphthalate	Not Spiked
Fluoranthene	Not Spiked
Pyrene	75
Butylbenzylphthalate	Not Spiked
3,3'-Dichlorobenzidine	Not Spiked
Chrysene	Not Spiked
Benzo(a)anthracene	Not Spiked
bis(2-Ethylhexyl)phthalate	Not Spiked
Di-n-Octylphthalate	Not Spiked
Benzo(b)fluoranthene	Not Spiked
Benzo(k)fluoranthene	Not Spiked
Benzo(a)pyrene	Not Spiked
Indeno(1,2,3-c,d)pyrene	Not Spiked
Dibenz(a,h)anthracene	Not Spiked
Benzo(g,h,i)perylene	Not Spiked

Air Sample Volume(L): 80000
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	50-150
Phenol-d5	69	50-150
Nitrobenzene-d5	68	50-150
2,4,6-Tribromophenol	52	50-150
Fluorene-d10	66	60-120
Pyrene-d10	65	60-120

Report Date: 10-Jul-2009 09:03

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 09jul09a
Sample Matrix: GAS
Fraction: SV
Lab Smp Id: 0906708B/709B-LCS
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: MS DATA
SampleType: LCS
SpikeList File: TO13100.spk
Quant Type: ISTD
Sublist File: lcsfull.sub
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3 Phenol*	50.00	40.94	81.89	50-150
5 2-Chlorophenol	50.00	39.04	78.09	50-150
9 1,4-Dichlorobenzen	50.00	35.64	71.28	50-150
15 N-Nitrosodipropyla	50.00	39.69	79.38	50-150
26 1,2,4-Trichloroben	50.00	35.70	71.41	50-150
32 4-Chloro-3-Methylp	50.00	40.59	81.19	50-150
48 Acenaphthene*	50.00	36.43	72.87	50-150
50 4-Nitrophenol**	50.00	28.62	57.23	38-96
52 2,4-Dinitrotoluene	50.00	36.58	73.16	50-150
68 Pentachlorophenol*	50.00	21.16	42.32	39-106
81 Pyrene	50.00	37.40	74.80	60-120

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	50.00	32.31	64.63	50-150
$ 2 Phenol-d5	50.00	34.43	68.87	50-150
$ 17 Nitrobenzene-d5	50.00	33.77	67.55	50-150
$ 62 2,4,6-Tribromophen	50.00	26.14	52.28	50-150
$ 147 Fluorene-d10	50.00	32.83	65.66	60-120
$ 148 Pyrene-d10	50.00	32.55	65.11	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/09jul09a.b/v070914.d
Lab Smp Id: 0906708B/709B-LCS Client Smp ID: LCS
Inj Date : 09-JUL-2009 17:54
Operator : rn Inst ID: msdv.i
Smp Info : ;0906708B/709B-LCS;LCS
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/09jul09a.b/bnap0708.m
Meth Date : 09-Jul-2009 16:15 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcsfull.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
$ 1 2-Fluorophenol	112	2.856	2.856	(0.670)	93103	32.3150	32.31
$ 2 Phenol-d5	99	3.934	3.944	(0.922)	114968	34.4334	34.43
$ 17 Nitrobenzene-d5	82	5.033	5.032	(0.850)	130842	33.7744	33.77
$ 62 2,4,6-Tribromophenol	330	9.116	9.115	(1.120)	23028	26.1399	26.14
$ 147 Fluorene-d10	176	8.753	8.763	(1.075)	181190	32.8309	32.83
$ 148 Pyrene-d10	212	11.603	11.613	(0.866)	243097	32.5541	32.55
* 7 1,4-Dichlorobenzene-d4	150	4.266	4.266	(1.000)	112355	40.0000	
* 27 Naphthalene-d8	136	5.924	5.924	(1.000)	260993	40.0000	
* 47 Acenaphthene-d10	164	8.141	8.141	(1.000)	151616	40.0000	
* 71 Phenanthrene-d10	188	9.903	9.903	(1.000)	277571	40.0000	
* 90 Chrysene-d12	240	13.396	13.395	(1.000)	243269	40.0000	
* 99 Perylene-d12	264	15.820	15.831	(1.000)	193708	40.0000	
3 Phenol*	94	3.955	3.955	(0.927)	137826	40.9436	40.94

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug)
5 2-Chlorophenol	128	4.048	4.048	(0.949)	94286	39.0438	39.04
9 1,4-Dichlorobenzene*	146	4.286	4.286	(1.005)	99691	35.6425	35.64
15 N-Nitrosodipropylamine**	70	4.908	4.908	(1.151)	84685	39.6898	39.69
26 1,2,4-Trichlorobenzene	180	5.893	5.893	(0.995)	87341	35.7050	35.70
32 4-Chloro-3-Methylphenol*	107	6.763	6.763	(1.142)	96318	40.5925	40.59
48 Acenaphthene*	154	8.173	8.183	(1.004)	172668	36.4330	36.43
50 4-Nitrophenol**	109	8.421	8.421	(1.034)	27988	28.6162	28.62
52 2,4-Dinitrotoluene	165	8.452	8.463	(1.038)	64046	36.5798	36.58
68 Pentachlorophenol*	266	9.789	9.789	(0.988)	17961	21.1577	21.16
81 Pyrene	202	11.634	11.634	(0.868)	330497	37.4019	37.40

Report Date: 10-Jul-2009 09:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070914.d
Lab Smp Id: 0906708B/709B-LCS
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/09jul09a.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 09-JUL-2009
Calibration Time: 15:37
Client Smp ID: LCS
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	97401	48700	194802	112355	15.35
27 Naphthalene-d8	223170	111585	446340	260993	16.95
47 Acenaphthene-d10	126615	63308	253230	151616	19.75
71 Phenanthrene-d10	238582	119291	477164	277571	16.34
90 Chrysene-d12	205561	102780	411122	243269	18.34
99 Perylene-d12	169872	84936	339744	193708	14.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
7 1,4-Dichlorobenze	4.27	3.77	4.77	4.27	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.14	7.64	8.64	8.14	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.40	12.90	13.90	13.40	0.00
99 Perylene-d12	15.83	15.33	16.33	15.82	-0.06

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.

0220

Data File: /chem/msdv.i/09jul09a.b/v070914.d
Date : 09-JUL-2009 17:54
Client ID: LCS
Sample Info: ;0906708B/709B-LCS;LCS
Volume Injected (uL): 1.0
Column phase: DB-5.625

Instrument: msdv.i
Operator: rn
Column diameter: 0.25

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

3 Phenol*

Concentration: 40.94 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

5 2-Chlorophenol

Concentration: 39.04 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

9 1,4-Dichlorobenzene*

Concentration: 35.64 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

15 N-Nitrosodipropylamine**

Concentration: 39.69 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 35.70 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

32 4-Chloro-3-Methylphenol*

Concentration: 40.59 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

48 Acenaphthene*

Concentration: 36.43 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

50 4-Nitrophenol**

Concentration: 28.62 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

52 2,4-Dinitrotoluene

Concentration: 36.58 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

68 Pentachlorophenol*

Concentration: 21.16 ug

Data File: /chem/msdv.i/09jul09a.b/v070914.d

Date : 09-JUL-2009 17:54

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0906708B/709B-LCS;LCS

Volume Injected (uL): 1.0

Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

81 Pyrene

Concentration: 37.40 ug

TO-13A ASE Extraction Logbook @Air Toxics Logbook#: 1809

Date Extracted: 7/1/09
Set-up By: MJS
Spiked By: MJS
Spike Date: 7/1/09

Spike Witness: CRL
Date Witnessed: 7/1/09
☑ *Proj.Pr./COC checked* ☑ *Spike ID Verified*
☑ *Spike Amt. Verified* ☑ *Equipment checked*
☑ *Verified media certified*

Solvent: Dichloromethane
Solvent Lot #: 090321
Concentrated By: MJS
Date Concentrated: 7/2/09

ATL Sample ID #	Client I.D. #	Car. #	PUF / XAD/Filter Lot #	Surr. ID/Conc. (µg/mL)*	Surr. Amt. (mL)	LCS ID/Conc. (µg/mL)	LCS Amt. (mL)	Fin. Vol. (mL)
0906708B-03A	CAMUS1 062509	2	P090608/X090608/F090521	1698-12-100	0.5	N/A	N/A	1.0
↓ -06A	CAMUS2 062509	2	↓	↓	↓	↓	↓	↓
0906709B-03A	OFF03062509	3	↓	↓	↓	↓	↓	↓
↓ -06A	OFF04062509	3	↓	↓	↓	↓	↓	↓
0906708 0906709 - BLK	NA	2	P090624/X090608	↓	↓	↓	↓	↓
↓ -LCS	↓	3	↓	↓	↓	1698-5-100	0.5	↓

MJS 7/1/09

Pre-Spiked Surrogate	Surr. ID/Conc. (ug/mL)	Surr Amt (uL)	Spiked By	Spiked Date
Benzo(a)pyrene-d12 Fluoranthene-d10	1698-14-100	100	MJS	6/17/09

Water Bath Temperature °C	Initial Temp °C	Final Temp °C
MJS 7/1/09	50°C	68°C

Comments: 0906708B-06A, 0906709B-03A were ~~shipped~~ received in a different bag than the original. Media ID's determined from media shipment log.

**TO-13A(mod) Surrogate Compounds: 2-Fluorophenol, Phenol-d_5, Nitrobenzene-d_5, 2,4,6-Tribromophenol, Fluorene-d_{10} and Pyrene-d_{10}*
**PAH Surrogate Compounds: Fluorene-d_{10} and Pyrene-d_{10}*

Method: TO13

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.21
68	Less than 2.00% of mass 69	0.82 (1.48)1
69	Less than 99.90% of mass 198	55.74
70	Less than 2.00% of mass 69	0.00 (0.00)1
127	40.00 – 60.00% of mass 198	56.23
197	Less than 1.00% of mass 198	0.40
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	21.95
365	Greater than 1.00% of mass 198	3.02
441	Present, but less than mass 443	9.75
442	40.00 - 100.00% of mass 198	69.96
443	17.00 - 23.00% of mass 442	13.32 (19.04)2

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

Instrument ID: MSD-V 7/10/09
DFTPP File ID: V0 70908
DFTPP Injection Date: 7/9/09
DFTPP Injection Time 1518

#	IS	Area Counts
	1,4-Dichlorobenzene-d_4:	97401
	Naphthalene-d_8:	223170
	Acenaphthene-d_{10}:	126615
	Phenanthrene-d_{10}:	238582
	Chrysene-d_{12}:	205561
	Perylene-d_{12}:	169872

Injection Volume: 1.0 µL

	use	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓	V070907	DCM Wash	1	1.0	7/9/09	1501	nm/li	
2	✓	08	1685-10C-50	2			1518		tune DFTPP 0.77% Breakd
3	✓	09	1685-159-50	3			1537		CCV
4	✓	10	DCM Blank	4			1604		
5	✓	11	1698-23-100	5			1632		cont
6	✓	12	P090702	6			1659		cont
7	✓	13	09067088-Blank 09067098	7			1727		
8	✓	14	↓ -LCS	8			1754		
9	✓	15	09067088-03A	9			1821		
10	✓	16	↓ -06A	10			1849		
11	✓	17	09067098-03A	11			1916		
12	✓	18	↓ -03AA	12			1944		
13	✓	19	↓ -06A	13			2011		
14		20	09070478-Blank	14			2038		
15	✓	21	↓ -LCS	15			2105		
16	✓	22	↓ -03A	16			2133		
17	✓	23	↓ -06A	17			2200		
18	✓	24	09070448-Blank	18			2227		
19		25	↓ -LCS	19			2254		
20		26	↓ -01A	20			2321		
21		27	↓ -02A	21		↓	2348		
22		28	↓ -03A	22		7/10/09	0015		
23		29	↓ -04A	23		↓	0043		

Calculation Check:

ng of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(175266)}{(97401)} \times \frac{(40.0)}{(1.47820)} = 48.69$

File ID: V070909
Compound: aniline
Initials: nm

Signed: [signature]

Date: 7/10/09

..cont'd on pg 200

Air Toxics Ltd.

Data file : /chem/msdv.i/08jul09.b/v070802.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 08-JUL-2009 13:51
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10c-50;dftpp
Misc Info :
Comment :
Method : /chem/msdv.i/08jul09.b/dftpp.m
Meth Date : 04-May-2009 14:11 rnoonan Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug)	TARGET RANGE	RATIO
1 dftpp						CAS #:		
5.274	5.502	(0.000)	198	28100			100.00- 100.00	100.00
5.274	5.502	(0.000)	51	13735			30.00- 60.00	48.88
5.274	5.502	(0.000)	68	201			0.00- 2.00	1.36
5.274	5.502	(0.000)	69	14758			0.00- 99.90	52.52
5.274	5.502	(0.000)	70	0			0.00- 2.00	0.00
5.274	5.502	(0.000)	127	15212			40.00- 60.00	54.14
5.274	5.502	(0.000)	197	190			0.00- 1.00	0.68
5.274	5.502	(0.000)	199	1841			5.00- 9.00	6.55
5.274	5.502	(0.000)	275	6344			10.00- 30.00	22.58
5.274	5.502	(0.000)	365	857			1.00- 0.00	3.05
5.274	5.502	(0.000)	441	2895			0.01- 99.99	76.71
5.274	5.502	(0.000)	442	19912			40.00- 100.00	70.86
5.274	5.502	(0.000)	443	3774			17.00- 23.00	18.95

Data File: /chem/msdv.i/08jul09.b/v070802.d

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: /chem/msdv.i/08jul09.b/v070802.d

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

1 dftpp

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.88
68	Less than 2.00% of mass 69	0.72 (1.36)
69	Less than 99.90% of mass 198	52.52
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	54.14
197	Less than 1.00% of mass 198	0.68
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 30.00% of mass 198	22.58
365	Greater than 1.00% of mass 198	3.05
441	Present, but less than mass 443	10.30
442	40.00 - 100.00% of mass 198	70.86
443	17.00 - 23.00% of mass 442	13.43 (18.95)

Data File: /chem/msdv.i/08jul09.b/v070802.d

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v070802.d
Spectrum: Avg. Scans 210-212 (5.27), Background Scan 206
Location of Maximum: 198.00
Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	154	117.00	3329	186.00	4115	255.00	14645
39.00	1071	118.00	232	187.00	1204	256.00	2126
49.00	101	122.00	238	188.00	62	257.00	103
50.00	3385	123.00	368	189.00	221	258.00	910
51.00	13735	124.00	167	191.00	64	259.00	76
52.00	650	125.00	163	192.00	300	265.00	356
56.00	414	127.00	15212	193.00	316	273.00	448
57.00	951	128.00	1121	196.00	736	274.00	1144
61.00	156	129.00	6027	197.00	190	275.00	6344
62.00	168	130.00	453	198.00	28096	276.00	854
63.00	523	131.00	54	199.00	1841	277.00	596
65.00	262	134.00	157	200.00	73	278.00	54
68.00	201	135.00	421	201.00	61	285.00	52
69.00	14758	136.00	179	203.00	183	293.00	78
73.00	105	137.00	209	204.00	1014	296.00	1923
74.00	1369	141.00	731	205.00	1712	297.00	237
75.00	2306	142.00	217	206.00	6797	303.00	108
76.00	741	143.00	148	207.00	885	314.00	50
77.00	16616	146.00	61	208.00	225	315.00	179
78.00	1102	147.00	327	210.00	50	316.00	72
79.00	930	148.00	798	211.00	224	323.00	595
80.00	705	149.00	155	216.00	75	324.00	66
81.00	1155	153.00	201	217.00	1888	327.00	60
82.00	257	154.00	157	218.00	202	334.00	401
83.00	276	155.00	384	221.00	1137	335.00	51
85.00	228	156.00	625	222.00	133	346.00	70
86.00	429	157.00	53	223.00	386	352.00	121
87.00	139	158.00	72	224.00	3701	353.00	77
91.00	234	160.00	208	225.00	941	354.00	162
92.00	225	161.00	319	226.00	57	365.00	857
93.00	1700	165.00	242	227.00	1612	366.00	71
94.00	107	166.00	199	228.00	192	372.00	309
98.00	1197	167.00	1421	229.00	298	383.00	50
99.00	1020	168.00	707	231.00	85	402.00	74
101.00	568	169.00	63	234.00	57	403.00	161

Data File: /chem/msdv.i/08jul09.b/v070802.d

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v070802.d
Spectrum: Avg. Scans 210-212 (5.27), Background Scan 206
Location of Maximum: 198.00
Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.00	178	172.00	56	235.00	71	421.00	86
104.00	363	173.00	153	237.00	77	422.00	81
105.00	317	174.00	253	241.00	60	423.00	1194
106.00	51	175.00	596	242.00	169	424.00	201
107.00	4610	176.00	145	243.00	173	441.00	2895
108.00	682	177.00	225	244.00	2718	442.00	19912
109.00	120	179.00	1122	245.00	299	443.00	3774
110.00	8127	180.00	764	246.00	567	444.00	363
111.00	1252	181.00	321	247.00	62		
112.00	154	184.00	58	249.00	54		
116.00	221	185.00	505	254.00	72		

Air Toxics Ltd.

Data file : /chem/msdv.i/09Jul2009.b/v070908.d
Lab Smp Id: DFTPP 50ng Client Smp ID: DFTPP 50ng
Inj Date : 09-JUL-2009 15:18
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10c-50;dftpp
Misc Info :
Comment :
Method : /chem/msdv.i/09Jul2009.b/dftpp.m
Meth Date : 04-May-2009 14:11 rnoonan Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug)	TARGET RANGE	RATIO
1 dftpp						CAS #:		
5.253	5.502	(0.000)	198	19033			100.00- 100.00	100.00
5.253	5.502	(0.000)	51	9746			30.00- 60.00	51.21
5.253	5.502	(0.000)	68	157			0.00- 2.00	1.48
5.253	5.502	(0.000)	69	10609			0.00- 99.90	55.74
5.253	5.502	(0.000)	70	0			0.00- 2.00	0.00
5.253	5.502	(0.000)	127	10702			40.00- 60.00	56.23
5.253	5.502	(0.000)	197	77			0.00- 1.00	0.40
5.253	5.502	(0.000)	199	1307			5.00- 9.00	6.87
5.253	5.502	(0.000)	275	4178			10.00- 30.00	21.95
5.253	5.502	(0.000)	365	574			1.00- 0.00	3.02
5.253	5.502	(0.000)	441	1856			0.01- 99.99	73.21
5.253	5.502	(0.000)	442	13315			40.00- 100.00	69.96
5.253	5.502	(0.000)	443	2535			17.00- 23.00	19.04

Data File: /chem/msdv.i/09Jul2009.b/v070908.d

Date : 09-JUL-2009 15:18

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: /chem/msdv.i/09Jul2009.b/v070908.d

Date : 09-JUL-2009 15:18

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

1 dftpp

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	51.21
68	Less than 2.00% of mass 69	0.82 (1.48)
69	Less than 99.90% of mass 198	55.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	56.23
197	Less than 1.00% of mass 198	0.40
199	5.00 - 9.00% of mass 198	6.87
275	10.00 - 30.00% of mass 198	21.95
365	Greater than 1.00% of mass 198	3.02
441	Present, but less than mass 443	9.75
442	40.00 - 100.00% of mass 198	69.96
443	17.00 - 23.00% of mass 442	13.32 (19.04)

Data File: /chem/msdv.i/09Jul2009.b/v070908.d

Date : 09-JUL-2009 15:18

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v070908.d
Spectrum: Avg. Scans 208-210 (5.25), Background Scan 205
Location of Maximum: 198.00
Number of points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	111	107.00	3209	173.00	58	242.00	69
39.00	807	108.00	453	174.00	186	243.00	83
44.00	8	110.00	5837	175.00	435	244.00	1817
49.00	118	111.00	913	177.00	99	245.00	181
50.00	2382	112.00	54	179.00	746	246.00	377
51.00	9746	116.00	139	180.00	512	255.00	9851
52.00	468	117.00	2344	181.00	204	256.00	1432
56.00	292	118.00	166	185.00	301	257.00	65
57.00	738	122.00	185	186.00	2792	258.00	589
61.00	108	123.00	261	187.00	761	265.00	198
62.00	136	124.00	122	189.00	81	273.00	286
63.00	358	125.00	112	192.00	177	274.00	764
65.00	190	127.00	10702	193.00	203	275.00	4178
68.00	157	128.00	770	196.00	545	276.00	552
69.00	10609	129.00	4095	197.00	77	277.00	372
74.00	974	130.00	325	198.00	19032	296.00	1270
75.00	1617	134.00	65	199.00	1307	297.00	97
76.00	490	135.00	298	200.00	54	303.00	76
77.00	11793	136.00	68	203.00	80	315.00	89
78.00	780	137.00	144	204.00	694	323.00	374
79.00	688	141.00	518	205.00	1147	334.00	271
80.00	502	142.00	144	206.00	4708	346.00	54
81.00	837	143.00	57	207.00	631	352.00	67
82.00	195	147.00	240	208.00	87	354.00	67
83.00	177	148.00	545	211.00	96	365.00	574
85.00	155	149.00	117	216.00	52	372.00	171
86.00	224	153.00	138	217.00	1232	403.00	72
87.00	53	154.00	64	218.00	95	421.00	61
91.00	157	155.00	252	221.00	817	422.00	52
92.00	179	156.00	368	222.00	165	423.00	775
93.00	1194	160.00	139	223.00	226	424.00	151
98.00	853	161.00	211	224.00	2500	441.00	1856
99.00	718	165.00	170	225.00	626	442.00	13315
101.00	425	166.00	72	227.00	1086	443.00	2535
103.00	116	167.00	971	228.00	80	444.00	220

Data File: /chem/msdv.i/09Jul2009.b/v070908.d

Date : 09-JUL-2009 15:18

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v070908.d
Spectrum: Avg. Scans 208-210 (5.25), Background Scan 205
Location of Maximum: 198.00
Number of points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	238	168.00	521	229.00	188		
105.00	208	172.00	51	231.00	50		

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

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 #: 0906709B
# of pages (Including Cover): 1

7/20/2009

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

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

180 BLUE RAVINE ROAD, SU
FOLSOM, CA 95360-47
(916) 985-1000 FAX (916) 98

Page 1 of 1

Project Manager: Douglas Herlocker
Collected by: (Print and Sign) [illegible] 06/28/09
Company: Tetra Tech EMI Email: douglas.herlocker@tetratech
Address: 3760 Americana Terr, 201 City: Boise State: ID Zip: 83706
Phone: 208 389 1050 Fax: 208 389 1183

Project Info:
P.O. #:
Project #: 1030333.06
Project Name: EMI

Turn Around Time: ☑ Normal ☐ Rush ____ specify

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

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
	OFF03062509		6/25/09	[illegible]	1740	9.82	~~[illegible]~~ 118%	TD4
	↓		↓	↓	↓	9.90	~~[illegible]~~ 84.3%	TD9
03A						9.18	~~[illegible]~~ 113.9%	TD13
	OFF04062509				1730	9.93	~~[illegible]~~ 88%	TD4
	↓				↓	10.59	122.09	TD9
06A						10.39	98.01	TD13

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[illegible]	06/29/09 1400	[illegible] ATL	6/30/09 0930
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FED EX	3692 6273 0340	4°C	Good	Yes No None	0006708

West Printing & Graphics (818) 704-6000 • Fax (818) 704-9073

0246

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0906709B

Client

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

Phone

208-389-1030

Fax

Date Promised: 07/15/09
Date Completed: 7/16/09
Date Received: 6/30/09
PO#: 103P0333.005
Project#: 103P0333.06 BMI

Sales Rep: JJM

Total $: $ 450.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
03A	OFF03062509	Modified TO-13A	6/25/2009	$225.00
03AA	OFF03062509 Lab Duplicate	Modified TO-13A	6/25/2009	$0.00
06A	OFF04062509	Modified TO-13A	6/25/2009	$225.00
07A	Lab Blank	Modified TO-13A	NA	$0.00
08A	LCS	Modified TO-13A	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: TO-13A

TERMS: NET 45

Reporting Method: Modified TO-13A (rev. 2001)

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

Sample Discrepancy Report

Identification

Initiated By: LIN **Project ID:**12356 **PM:** KCB **Date:** 7/10/2009 **Discrepancy Type:** ☐ **1.** ☐ **2.** ☒ **3.**

Workorder(s) affected:0906709A **Sample(s) affected:** Lab Blank

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.

1.2. ☐ No brass cap on canister.

1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.

1.6. ☐ COC improperly relinquished / received.

1.7. ☐ Sample tags / can numbers do not match the COC.

1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).

1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).

1.10. ☐ ID-none on the sample Tag/Blank

1.11. ☐ Other (describe below).

Describe the Discrepancy: _____

_____

_____

2. Sample Receipt/Screening Discrepancies requiring PM notification

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

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

2.1. ☐ COC was not received with samples.

2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.

2.3. ☐ Incorrect sampling media / container for analysis requested.

2.4. ☐ Number of samples on the COC does not match the number of samples that were received.

2.5. ☐ Samples were received expired.

2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).

2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.

2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.

2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.

2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.

2.11. ☐ Environmental Supply Company valves

2.12. ☐ Sorbent samples-sampling volume was not provided

2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.

2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):

- ☐ Canister failed leak check on two manifolds,
- ☐ Canister valve was open,
- ☐ Brass nut was loose/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.

2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).

2.17. ☐ Canister Trip Blank received at low vacuum (< 25"Hg).

2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).

2.19. ☐ Other (describe below)

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Describe the Discrepancy: _____

_____

_____

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☒ Other (describe below).

Initials: LIN **Date:** 7/10/2009 **Notify Receiving:** ☐ **Notify PM:** ☐

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: Therecovery of surroget 2,4,6-Tribromophenol in the Lab Blank is 46.47%. It is outside of the control limits (50%-150%). Reanalysis confirmed the initial results.

How Does this Affect Client: The target compounds associated with the surrogate may be biase low.

Project Manager Use Only

Project Manager Notification ☐ **Section 2 Complete** ☒ **Section 3 Complete**

Action:

☒ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials: KCB Date: 7/10/2009

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

☒ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

Air Toxics Ltd.

Performance Check for 8270C

Data file : /chem/msdv.i/09jul09a.b/v070908a.d
Lab Smp Id: DFTPP 50ng Client Smp ID: Breakdown
Inj Date : 09-JUL-2009 15:18
Operator : rn Inst ID: msdv.i
Smp Info : ;1685-10c-50;dftpp
Misc Info :
Comment :
Method : /chem/msdv.i/09Jul2009.b/BREAK.m
Meth Date : 18-May-2009 13:40 rnoonan Quant Type: ESTD
Cal Date : 20-OCT-2004 08:05 Cal File: p102001a.d
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: Falcon 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 (ug)
M 1 Total DDT				482442	19.9204	19.92037
2 Pentachlorophenol	4.382	4.631	-0.249	235486	20.2341	20.23406
3 Benzidine	6.631	6.890	-0.259	386543	12.5059	12.50586
4 p,p'-DDE	Compound Not Detected.					
5 p,p'-DDD	7.688	7.802	-0.114	3726		
6 p,p'-DDT	7.999	8.258	-0.259	478716	19.9204	19.92037

$$\text{Breakdown} = \frac{0 + 3726}{482442} \times 100 = 0.77\%$$

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 (m^3)	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
CAMUS3-092309 (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	1560.49	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	71,921.50
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-13A (rev. 2001)

CAS Number	Compound	Detection Limit ug	Type
108-95-2	Phenol	5.0	
111-44-4	bis(2-Chloroethyl) Ether	1.0	
95-48-7	2-Methylphenol (o-Cresol)	5.0	
108-60-1	bis(2-Chloroisopropyl) Ether	1.0	
621-64-7	N-Nitroso-di-n-propylamine	1.0	
106-44-5	4-Methylphenol/3-Methylphenol	5.0	
67-72-1	Hexachloroethane	1.0	
98-95-3	Nitrobenzene	1.0	
78-59-1	Isophorone	1.0	
88-75-5	2-Nitrophenol	5.0	
105-67-9	2,4-Dimethylphenol	5.0	
65-85-0	Benzoic Acid	30	
111-91-1	bis(2-Chloroethoxy) Methane	1.0	
120-83-2	2,4-Dichlorophenol	5.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	
91-20-3	Naphthalene	1.0	
106-47-8	4-Chloroaniline	10	
87-68-3	Hexachlorobutadiene	1.0	
59-50-7	4-Chloro-3-methylphenol	5.0	
91-57-6	2-Methylnaphthalene	1.0	
77-47-4	Hexachlorocyclopentadiene	20	
88-06-2	2,4,6-Trichlorophenol	5.0	
95-95-4	2,4,5-Trichlorophenol	5.0	
91-58-7	2-Chloronaphthalene	1.0	
88-74-4	2-Nitroaniline	10	
131-11-3	Dimethylphthalate	5.0	
208-96-8	Acenaphthylene	1.0	
606-20-2	2,6-Dinitrotoluene	5.0	
99-09-2	3-Nitroaniline	10	
83-32-9	Acenaphthene	1.0	
51-28-5	2,4-Dinitrophenol	20	
100-02-7	4-Nitrophenol	20	
121-14-2	2,4-Dinitrotoluene	5.0	
132-64-9	Dibenzofuran	1.0	
84-66-2	Diethylphthalate	5.0	
86-73-7	Fluorene	1.0	
7005-72-3	4-Chlorophenyl-phenyl Ether	1.0	
100-01-6	4-Nitroaniline	10	
534-52-1	4,6-Dinitro-2-methylphenol	10	
86-30-6	N-Nitrosodiphenylamine	10	
101-55-3	4-Bromophenyl-phenyl Ether	1.0	
118-74-1	Hexachlorobenzene	1.0	
87-86-5	Pentachlorophenol	20	
85-01-8	Phenanthrene	1.0	
120-12-7	Anthracene	1.0	
84-74-2	di-n-Butylphthalate	5.0	

Compound Listing

Modified TO-13A (rev. 2001)

CAS Number	Compound	Detection Limit ug	Type
206-44-0	Fluoranthene	1.0	
129-00-0	Pyrene	1.0	
85-68-7	Butylbenzylphthalate	5.0	
91-94-1	3,3'-Dichlorobenzidine	20	
218-01-9	Chrysene	1.0	
56-55-3	Benzo(a)anthracene	1.0	
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	
117-84-0	Di-n-Octylphthalate	5.0	
205-99-2	Benzo(b)fluoranthene	1.0	
207-08-9	Benzo(k)fluoranthene	1.0	
50-32-8	Benzo(a)pyrene	1.0	
193-39-5	Indeno(1,2,3-c,d)pyrene	1.0	
53-70-3	Dibenz(a,h)anthracene	1.0	
191-24-2	Benzo(g,h,i)perylene	1.0	
367-12-4	2-Fluorophenol		
4165-62-2	Phenol-d5		
4165-60-0	Nitrobenzene-d5		
118-79-6	2,4,6-Tribromophenol		
81103-79-9	Fluorene-d10		
1718-52-1	Pyrene-d10		
95-57-8	2-Chlorophenol	5.0	
541-73-1	1,3-Dichlorobenzene	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0906709B

A_1	A_2	R	T	M	Q	
☐	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	☑	☐	Sample Discrepancy Report (SDR) is completed
☐	☐	☑	☐	NA	☐	Corrective Action issued - #
☐	☐	☑	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

☐	☐	☑	☐	☑	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☐	☐	☑	☐	☑	☐	Hold time is met for all samples
		☑	☐	☑	☐	Appropriate data qualifier flags are applied
		☑	☐	NA	☐	Manual integrations for samples and QC are properly documented
☐	☐	☑	☐		☐	Samples analyzed within the project or method specific clock
		☑	☐			Retention times have been verified
☐	☐	☑	☐		☐	Appropriate ICAL(s) included
		☑	☐	☑	☐	At least one result per sample is verified against the target quant sheets/raw data
☐	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		☑	☐			TICs resemble reference spectra
		☑	☐			TICs between duplicate samples are consistent
☐	☐	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑		☑		Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
		☑				Date MDL(s) performed per instrument(s) 11/21/08
☐	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☑ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☑				Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☑				Verify receipt pressures
☐	☐	☑				Verify canister ID #'s
		☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
				☑		MDL date(s) present for all instruments utilized
		☑	☐	NA	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: Dup 03A.
Surrogate 2,4,6-Tribromophenol low in Lab Blank (< 50%).
Control limits 50 - 150%.

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1:	R: 7/10/09	7/16/09	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 03/30/09
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable