
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-11A

INVENTORY SHEET

Work Order #: 1011418A

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	65
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	66	69
b. Surrogate Recover Summary Form (If Applicable)	--	--
c. Internal Standard Summary Form (If Applicable)	--	--
d. Duplicate Results Summary Sheet	70	70
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	71	143
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	144	189
i. Second Source LCS(Summary + Raw Data)	190	197
j. Extraction Logs	198	198
k. Instrument Run Logs/Software Verification	199	201
l. GC/MS Tune (Results + Raw Data)	--	--
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	202	203
b. Chain-of-Custody Records	204	204
c. Sample Log-In Sheet	205	206
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	--	--
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	208	208
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	209	209

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	12/7/10
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1011418A

Work Order Summary

CLIENT:	Mr. Brian Baker Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	**BILL TO:**	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	**P.O. #**	17131
FAX:	781-247-4305	**PROJECT #**	17131
DATE RECEIVED:	11/18/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/06/2010		

FRACTION #	NAME	TEST
01A	118683	Modified TO-11A
02A	118684	Modified TO-11A
03A	118685	Modified TO-11A
04A	118686	Modified TO-11A
05A	118687	Modified TO-11A
06A	118699	Modified TO-11A
07A	118700	Modified TO-11A
08A	118701	Modified TO-11A
09A	118702	Modified TO-11A
10A	118703	Modified TO-11A
11A	118715	Modified TO-11A
12A	118716	Modified TO-11A
13A	118717	Modified TO-11A
14A	118718	Modified TO-11A
15A	118719	Modified TO-11A
16A	Lab Blank	Modified TO-11A
17A	LCS	Modified TO-11A

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1011418A

Work Order Summary

CLIENT:	Mr. Brian Baker Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	**BILL TO:**	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	**P.O. #**	17131
FAX:	781-247-4305	**PROJECT #**	17131
DATE RECEIVED:	11/18/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/06/2010		

FRACTION #	NAME	TEST
17AA	LCSD	Modified TO-11A

CERTIFIED BY: Linda D. Frumarn

Laboratory Director

DATE: 12/06/10

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

LABORATORY NARRATIVE
Aldehydes by Radiello 165
Environmental Health & Engineering, Inc.
Workorder# 1011418A

Fifteen Radiello 165 (Aldehydes) samples were received on November 18, 2010.The procedure involves reaction of aldehydes with 2, 4-DNPH to give 2, 4-dinitrohydrazons. The 2, 4-dinitrohydrazons are then extracted with acetonitrile and analyzed using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. Results are reported in uG/m3.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. Sampling rates were provided by the manufacturer.

The exposure time for all samples exceeded the method recommended exposure time of 7 days.

The actual exposure time was used to calculate sample concentrations and reporting limits. An exposure time of 20120 minutes was used for the Laboratory Blank.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
118683	1011418A-01A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118684	1011418A-02A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118685	1011418A-03A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118686	1011418A-04A	11/15/2010	11/18/2010	11/23/2010	8	11/23/2010	0	Good
118687	1011418A-05A	NA	11/18/2010	11/23/2010	NA	11/23/2010	0	Good
118699	1011418A-06A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118700	1011418A-07A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118701	1011418A-08A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118702	1011418A-09A	11/15/2010	11/18/2010	11/23/2010	8	11/23/2010	0	Good
118703	1011418A-10A	NA	11/18/2010	11/23/2010	NA	11/23/2010	0	Good
118715	1011418A-11A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118716	1011418A-12A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118717	1011418A-13A	11/15/2010	11/18/2010	11/23/2010	8	11/24/2010	1	Good
118718	1011418A-14A	11/15/2010	11/18/2010	11/23/2010	8	11/23/2010	0	Good
118719	1011418A-15A	11/15/2010	11/18/2010	11/23/2010	8	11/23/2010	0	Good
Lab Blank	1011418A-16A	NA	NA	11/23/2010	NA	11/23/2010	0	Good
LCS	1011418A-17A	NA	NA	11/23/2010	NA	11/23/2010	0	Good
LCSD	1011418A-17AA	NA	NA	11/23/2010	NA	11/23/2010	0	Good

Sample Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118683

Lab ID#: 1011418A-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	44	23

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118683

Lab ID#: 1011418A-01A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123049**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 12:22 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	44	23

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123049.d
Lab Smp Id: 1011418A-01A Client Smp ID: 10
Inj Date : 24-NOV-2010 00:22
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-01A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.865	2.885	-0.020	2691689		
2 FORMALDEHYDE	3.611	3.598	0.013	1210393	11.0564	44.2

Data File: /chem/hplcf.i/23Nov2010.b/f1123049.d

Date : 24-NOV-2010 00:22

Client ID: 10

Instrument: hplcf.i

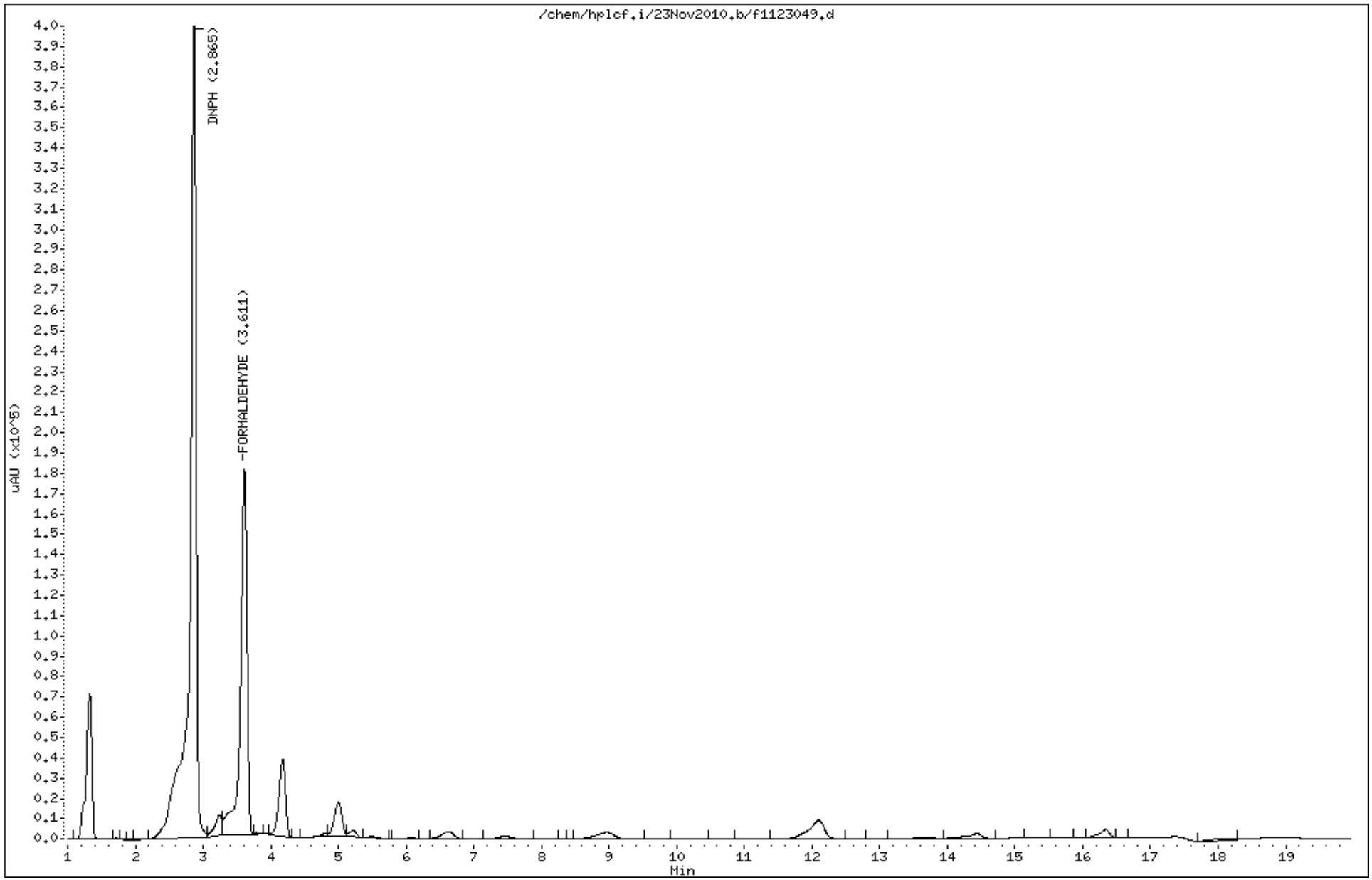
Sample Info: ;1011418A-01A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118684

Lab ID#: 1011418A-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	83	43

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118684

Lab ID#: 1011418A-02A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123050**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 12:43 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	83	43

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123050.d
Lab Smp Id: 1011418A-02A Client Smp ID: 10
Inj Date : 24-NOV-2010 00:43
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-02A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.788	2.885	-0.097	2436061		
2 FORMALDEHYDE	3.541	3.598	-0.057	2266638	20.7048	82.8

Data File: /chem/hplcf.i/23Nov2010.b/f1123050.d

Date : 24-NOV-2010 00:43

Client ID: 10

Instrument: hplcf.i

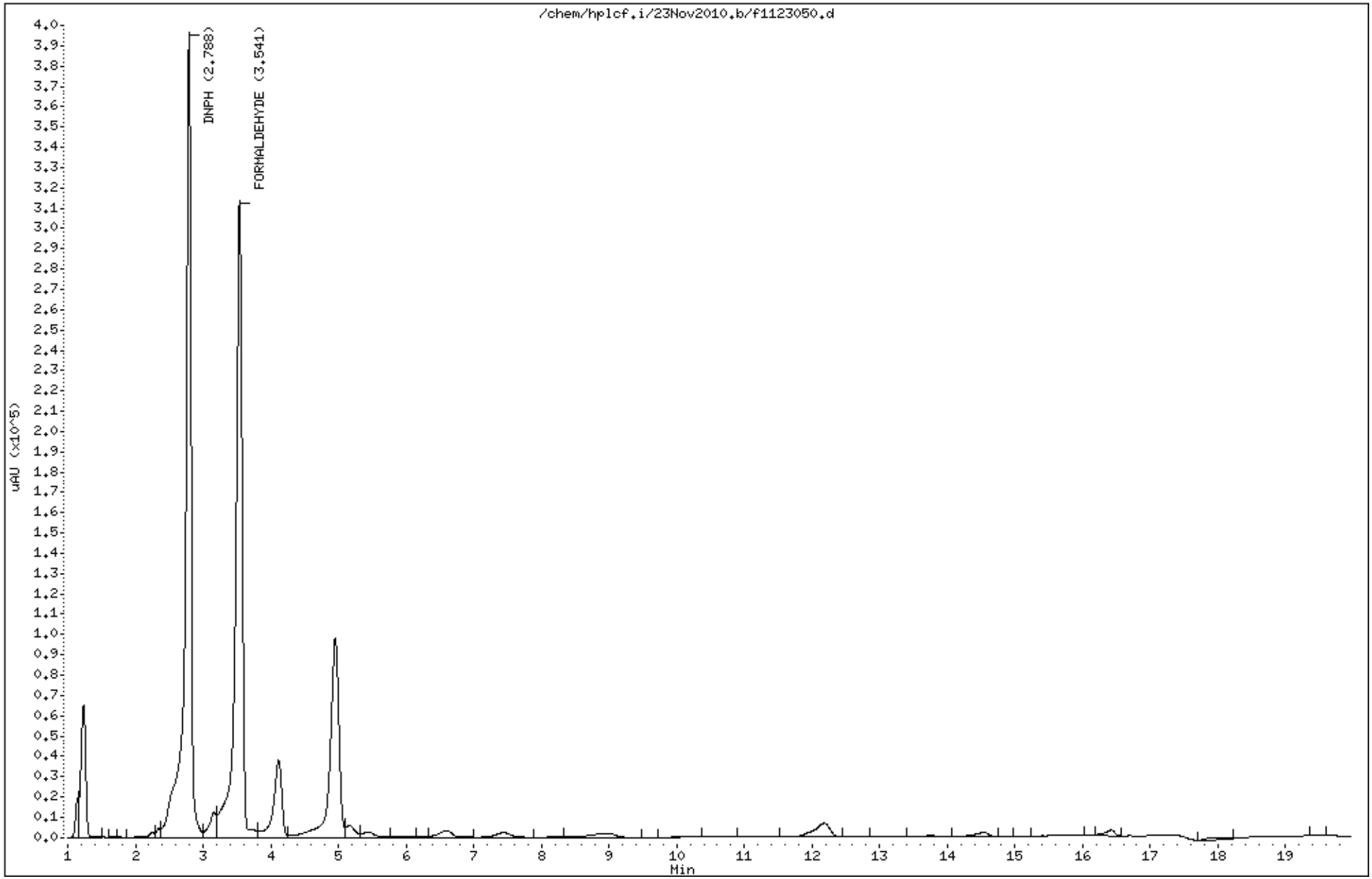
Sample Info: ;1011418A-02A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118685

Lab ID#: 1011418A-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	53	27

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118685

Lab ID#: 1011418A-03A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123051**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 01:04 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	53	27

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123051.d
Lab Smp Id: 1011418A-03A Client Smp ID: 10
Inj Date : 24-NOV-2010 01:04
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-03A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.853	2.885	-0.032	3015178		
2 FORMALDEHYDE	3.600	3.598	0.002	1445458	13.2036	52.8

Data File: /chem/hplcf.i/23Nov2010.b/f1123051.d

Date : 24-NOV-2010 01:04

Client ID: 10

Instrument: hplcf.i

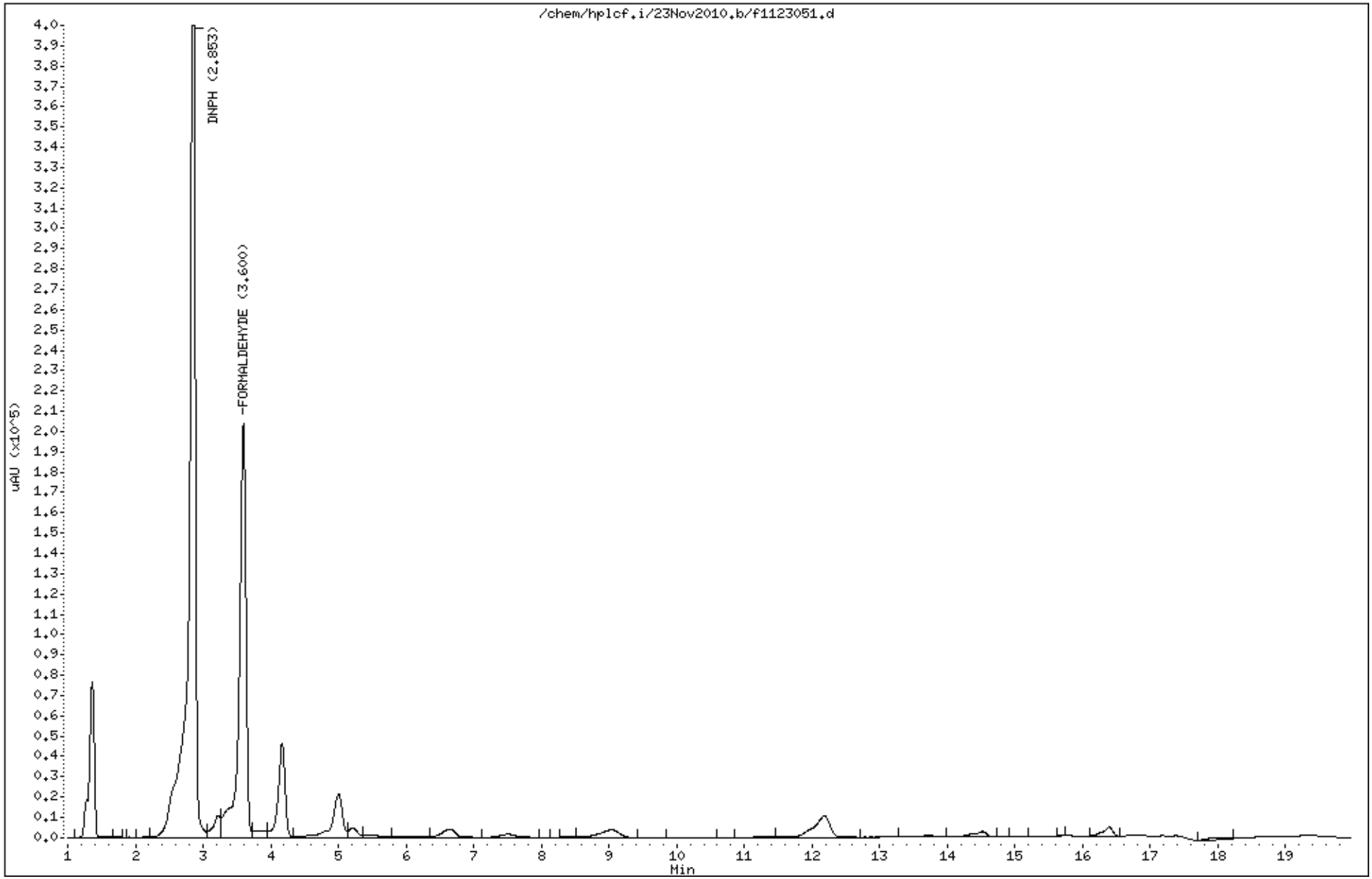
Sample Info: ;1011418A-03A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118686

Lab ID#: 1011418A-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	2.5	1.3

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118686

Lab ID#: 1011418A-04A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123041**	**Date of Collection: 11/15/10**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 09:35 PM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	2.5	1.3

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123041.d
Lab Smp Id: 1011418A-04A
Inj Date : 23-NOV-2010 21:35
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-04A;
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.878	2.885	-0.007	15660529		
2 FORMALDEHYDE	3.644	3.598	0.046	686986	6.27533	2.51

Data File: /chem/hplcf.i/23Nov2010.b/f1123041.d

Date : 23-NOV-2010 21:35

Client ID:

Instrument: hplcf.i

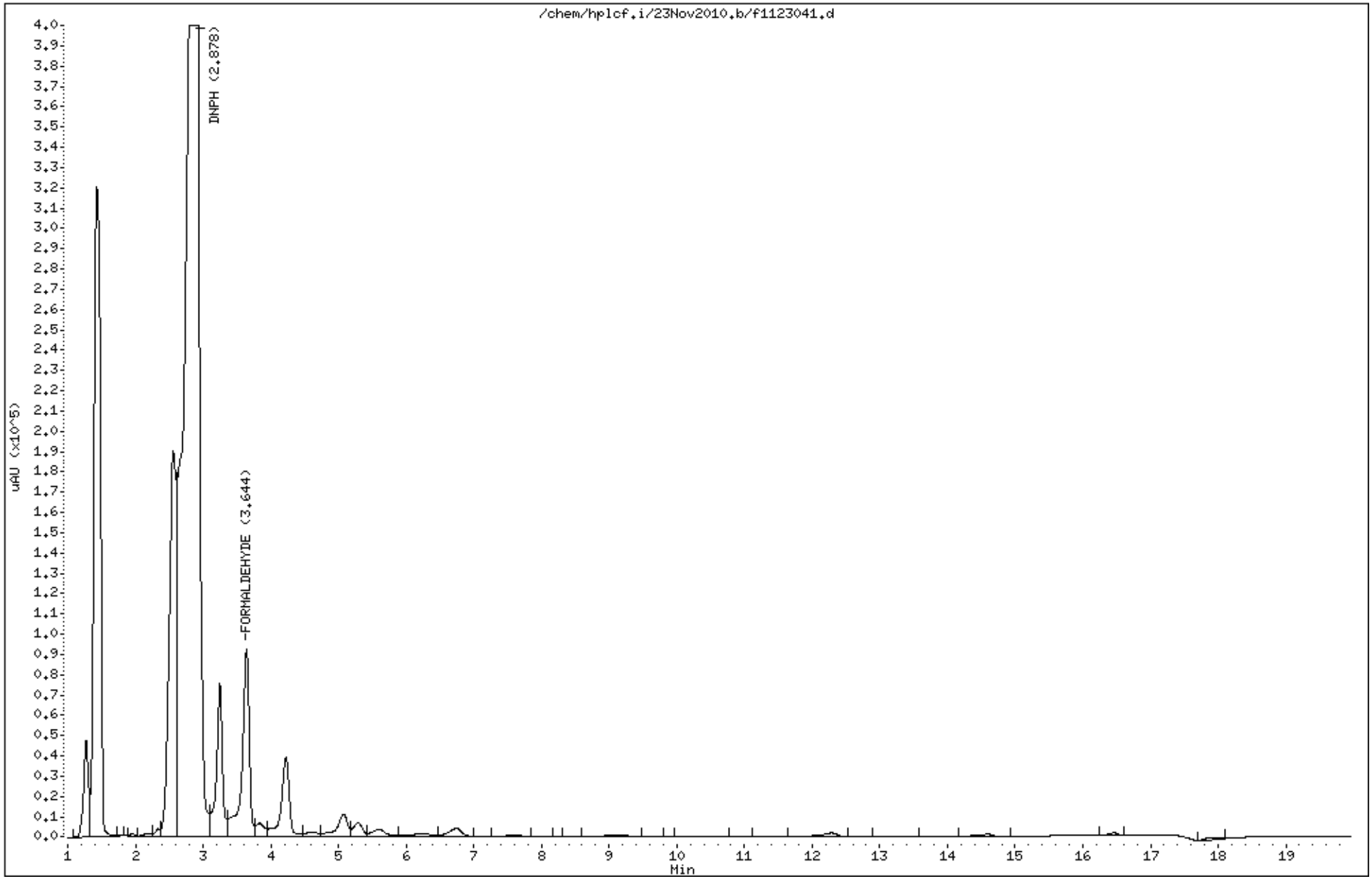
Sample Info: ;1011418A-04A;

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118687

Lab ID#: 1011418A-05A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118687

Lab ID#: 1011418A-05A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123035**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 07:30 PM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123035.d
Lab Smp Id: 1011418A-05A
Inj Date : 23-NOV-2010 19:30
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-05A;
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.885	2.885	0.000	29596801		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123035.d

Date : 23-NOV-2010 19:30

Client ID:

Instrument: hplcf.i

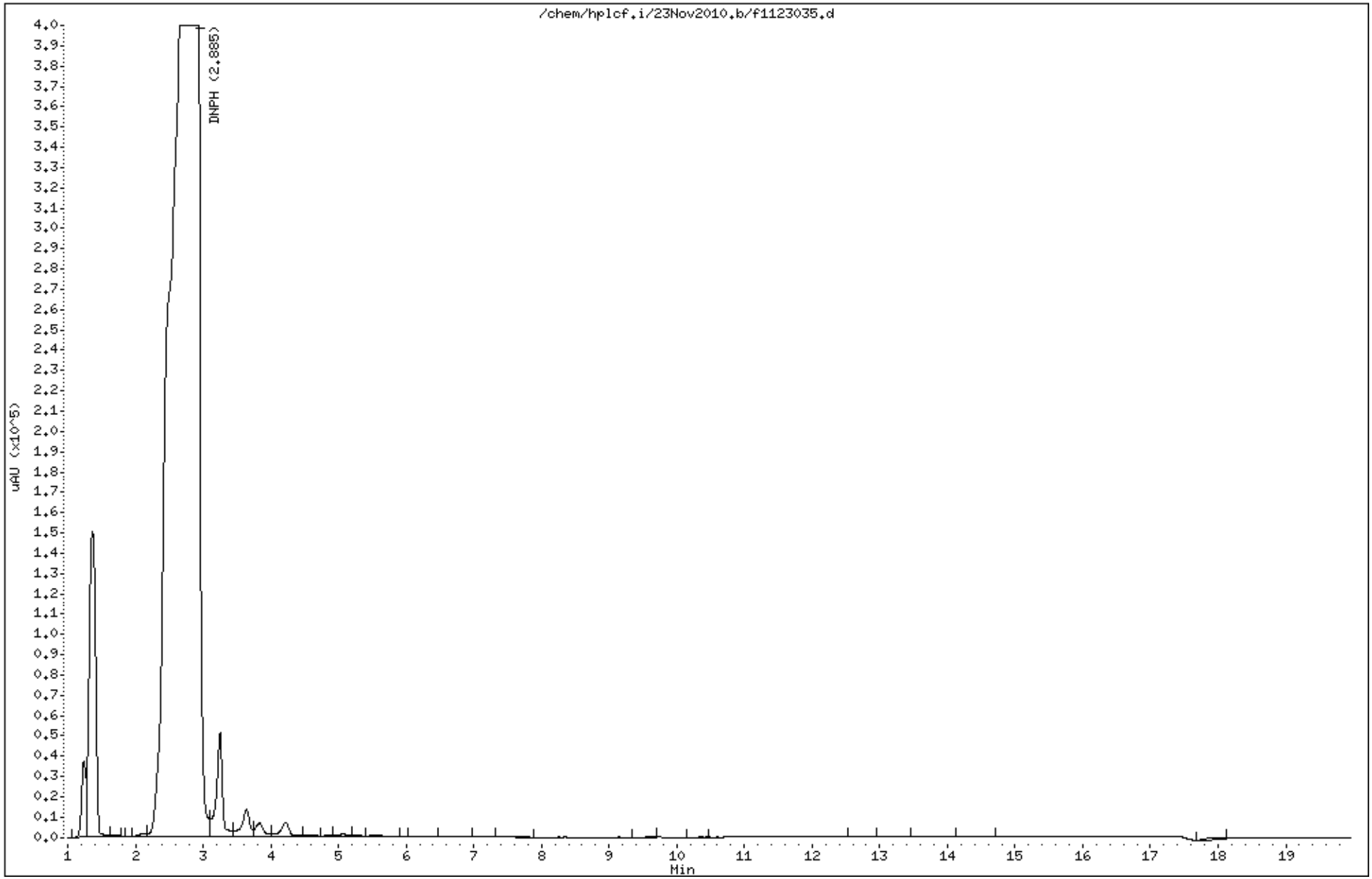
Sample Info: ;1011418A-05A;

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118699

Lab ID#: 1011418A-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	70	36

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118699

Lab ID#: 1011418A-06A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123052**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 01:25 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	70	36

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123052.d
Lab Smp Id: 1011418A-06A Client Smp ID: 10
Inj Date : 24-NOV-2010 01:25
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-06A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.881	2.885	-0.004	2773491		
2 FORMALDEHYDE	3.641	3.598	0.043	1914285	17.4862	69.9

Data File: /chem/hplcf.i/23Nov2010.b/f1123052.d

Page 1

Date : 24-NOV-2010 01:25

Client ID: 10

Instrument: hplcf.i

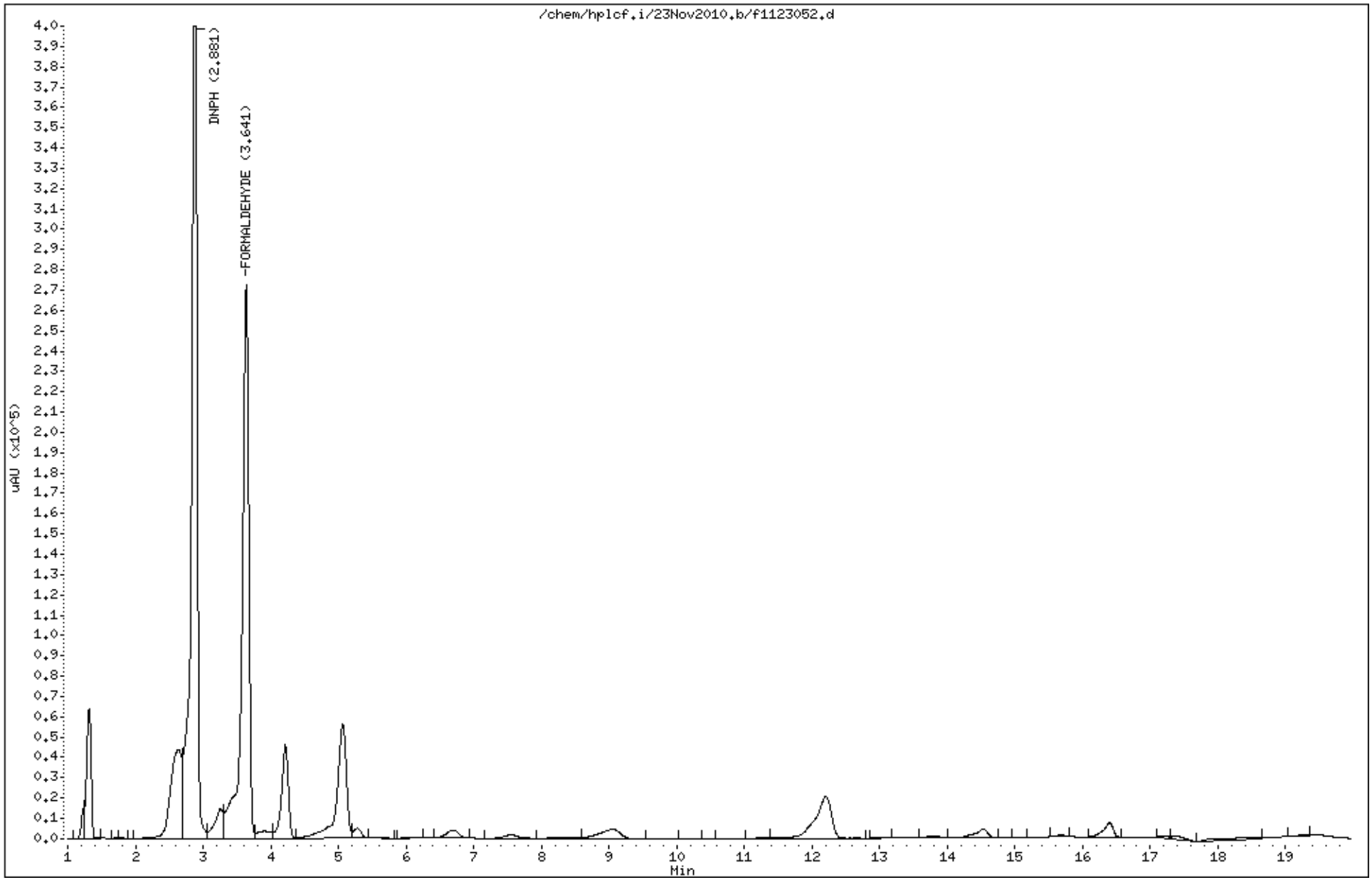
Sample Info: ;1011418A-06A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118700

Lab ID#: 1011418A-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	63	33

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118700

Lab ID#: 1011418A-07A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123053**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 01:46 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	63	33

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123053.d
Lab Smp Id: 1011418A-07A Client Smp ID: 10
Inj Date : 24-NOV-2010 01:46
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-07A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.841	2.885	-0.044	2158646		
2 FORMALDEHYDE	3.602	3.598	0.004	1734640	15.8452	63.4

Data File: /chem/hplcf.i/23Nov2010.b/f1123053.d

Date : 24-NOV-2010 01:46

Client ID: 10

Instrument: hplcf.i

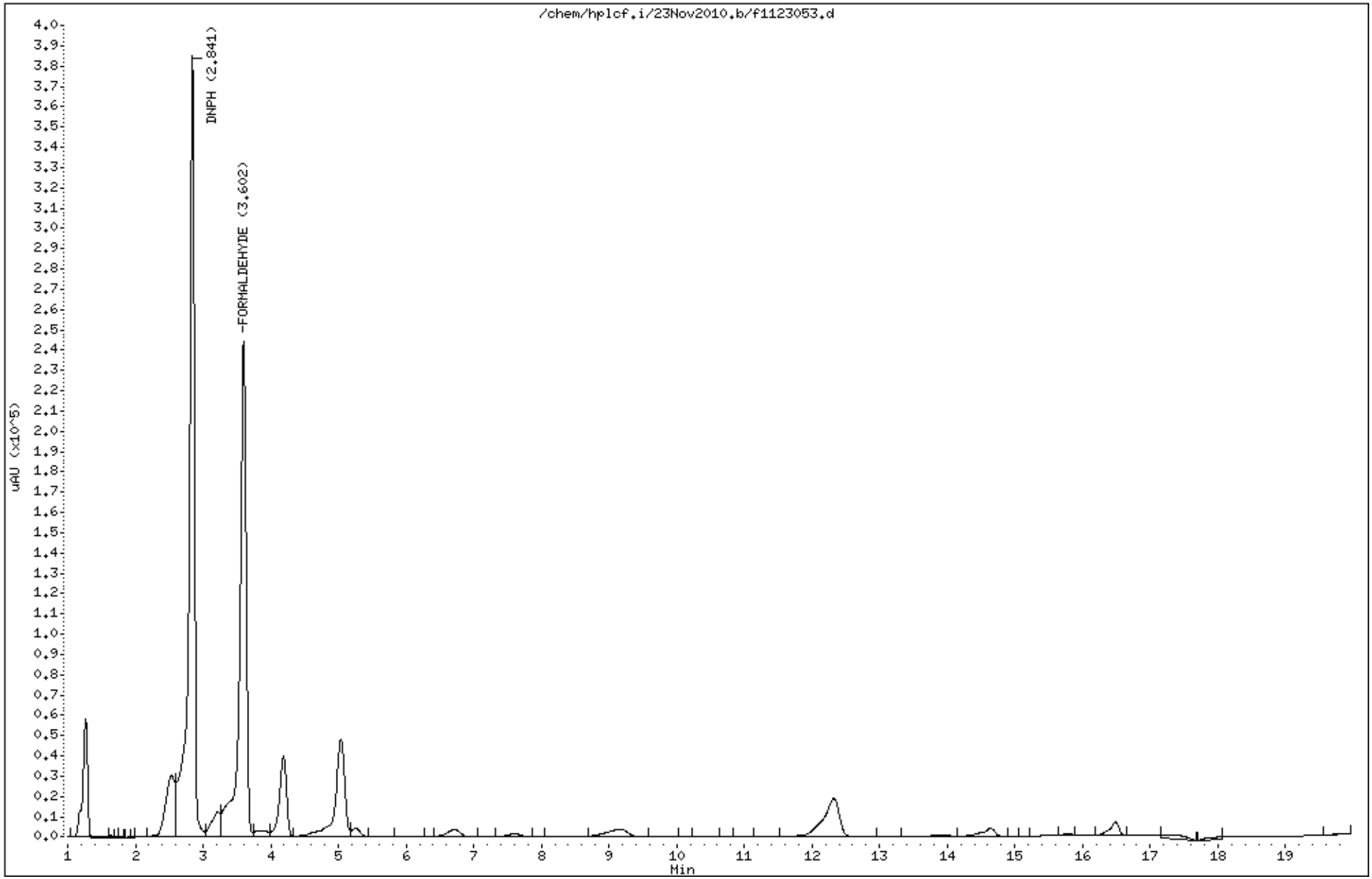
Sample Info: ;1011418A-07A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118701

Lab ID#: 1011418A-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	76	39

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118701

Lab ID#: 1011418A-08A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123056**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 02:49 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	76	39

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123056.d
Lab Smp Id: 1011418A-08A Client Smp ID: 10
Inj Date : 24-NOV-2010 02:49
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-08A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.847	2.885	-0.038	1548141		
2 FORMALDEHYDE	3.600	3.598	0.002	2083454	19.0314	76.1

Data File: /chem/hplcf.i/23Nov2010.b/f1123056.d

Date : 24-NOV-2010 02:49

Client ID: 10

Instrument: hplcf.i

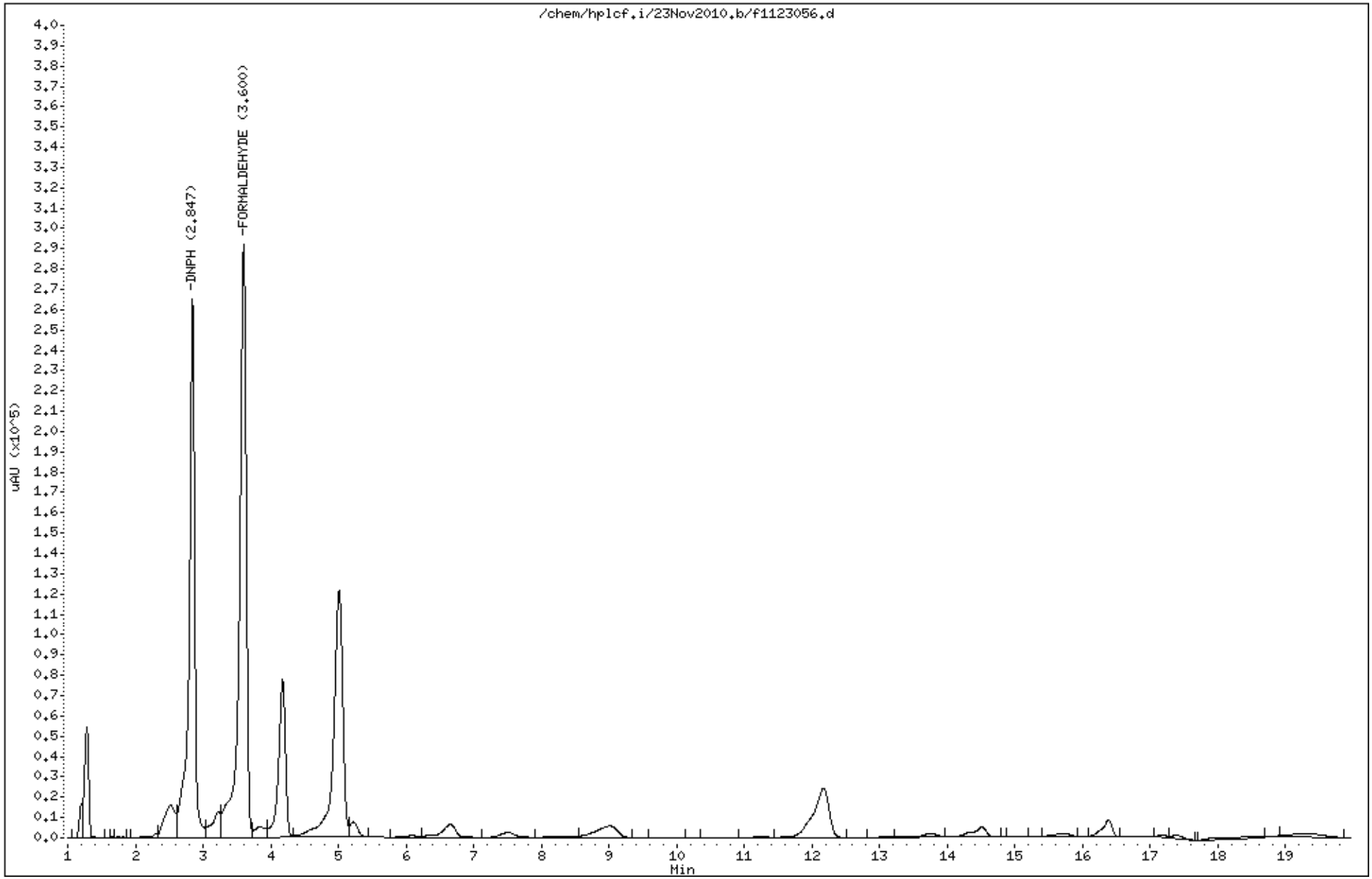
Sample Info: ;1011418A-08A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118702

Lab ID#: 1011418A-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	2.0	1.0

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118702

Lab ID#: 1011418A-09A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123044**	**Date of Collection: 11/15/10**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 10:38 PM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	2.0	1.0

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123044.d
Lab Smp Id: 1011418A-09A
Inj Date : 23-NOV-2010 22:38
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-09A;
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.897	2.885	0.012	23632185		
2 FORMALDEHYDE	3.657	3.598	0.059	549723	5.02148	2.01

Data File: /chem/hplcf.i/23Nov2010.b/f1123044.d

Date : 23-NOV-2010 22:38

Client ID:

Instrument: hplcf.i

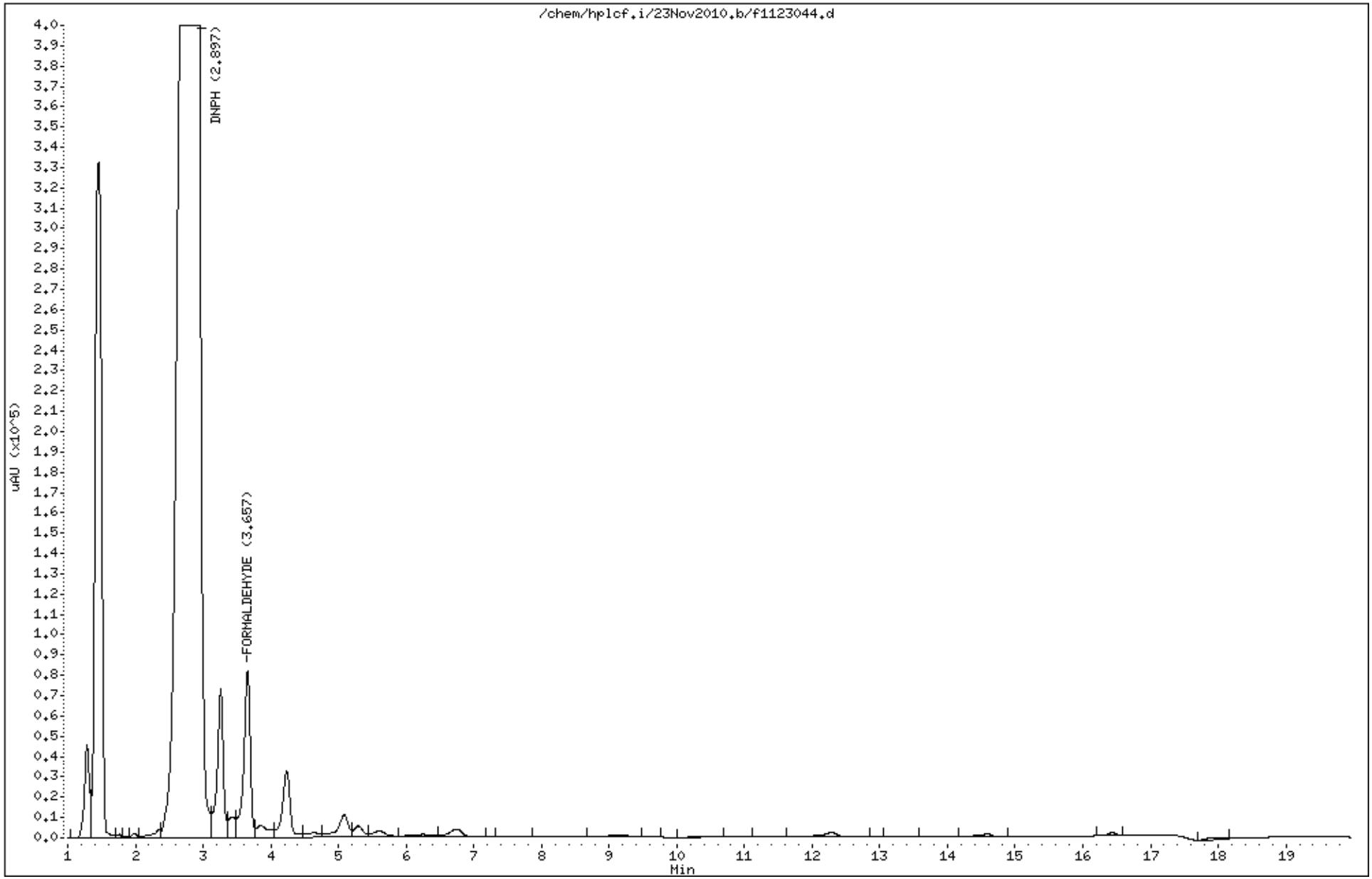
Sample Info: ;1011418A-09A;

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118703

Lab ID#: 1011418A-10A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118703

Lab ID#: 1011418A-10A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123036**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 07:51 PM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123036.d
Lab Smp Id: 1011418A-10A
Inj Date : 23-NOV-2010 19:51
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-10A;
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.868	2.885	-0.017	33487410		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123036.d

Date : 23-NOV-2010 19:51

Client ID:

Instrument: hplcf.i

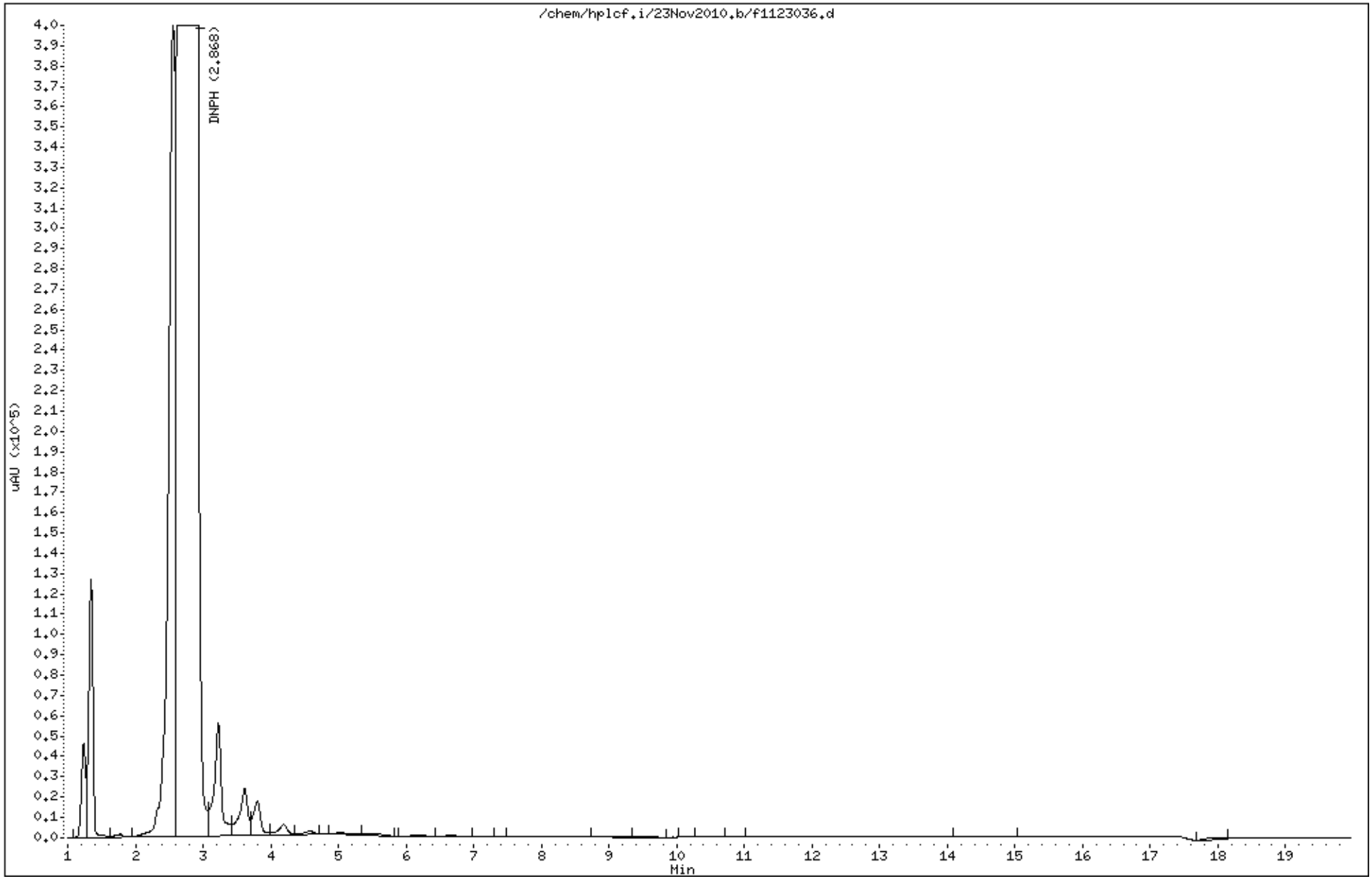
Sample Info: ;1011418A-10A;

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118715

Lab ID#: 1011418A-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	88	46

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118715

Lab ID#: 1011418A-11A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123057**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 03:10 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	88	46

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123057.d
Lab Smp Id: 1011418A-11A Client Smp ID: 10
Inj Date : 24-NOV-2010 03:10
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-11A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.868	2.885	-0.017	1584411		
2 FORMALDEHYDE	3.615	3.598	0.017	2407302	21.9897	88.0

Data File: /chem/hplcf.i/23Nov2010.b/f1123057.d

Date : 24-NOV-2010 03:10

Client ID: 10

Instrument: hplcf.i

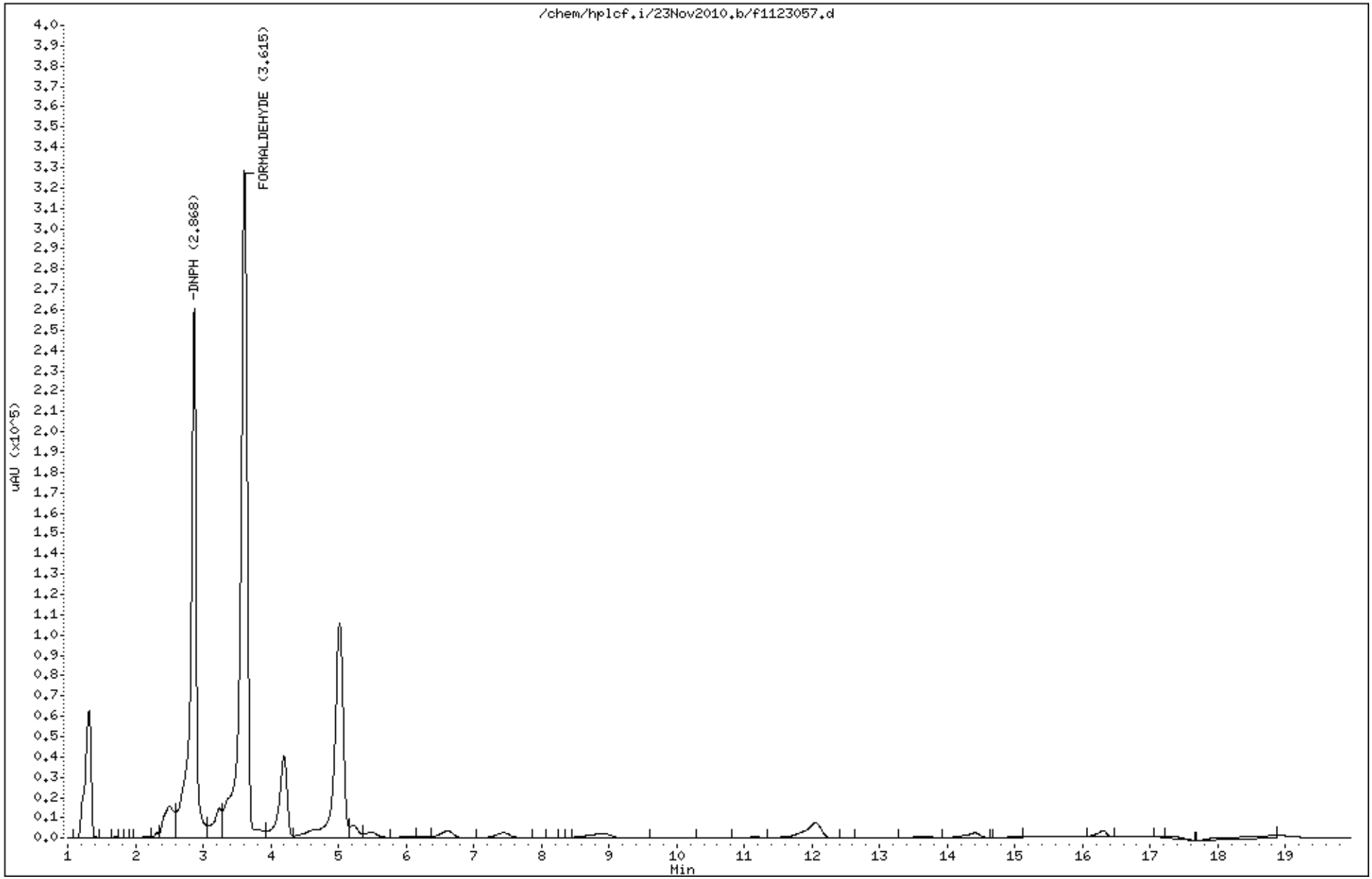
Sample Info: ;1011418A-11A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118716

Lab ID#: 1011418A-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	50	26

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118716

Lab ID#: 1011418A-12A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123058**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 03:30 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	50	26

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123058.d
Lab Smp Id: 1011418A-12A Client Smp ID: 10
Inj Date : 24-NOV-2010 03:30
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-12A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.788	2.885	-0.097	3227286		
2 FORMALDEHYDE	3.535	3.598	-0.063	1369798	12.5125	50.0

Data File: /chem/hplcf.i/23Nov2010.b/f1123058.d

Date : 24-NOV-2010 03:30

Client ID: 10

Instrument: hplcf.i

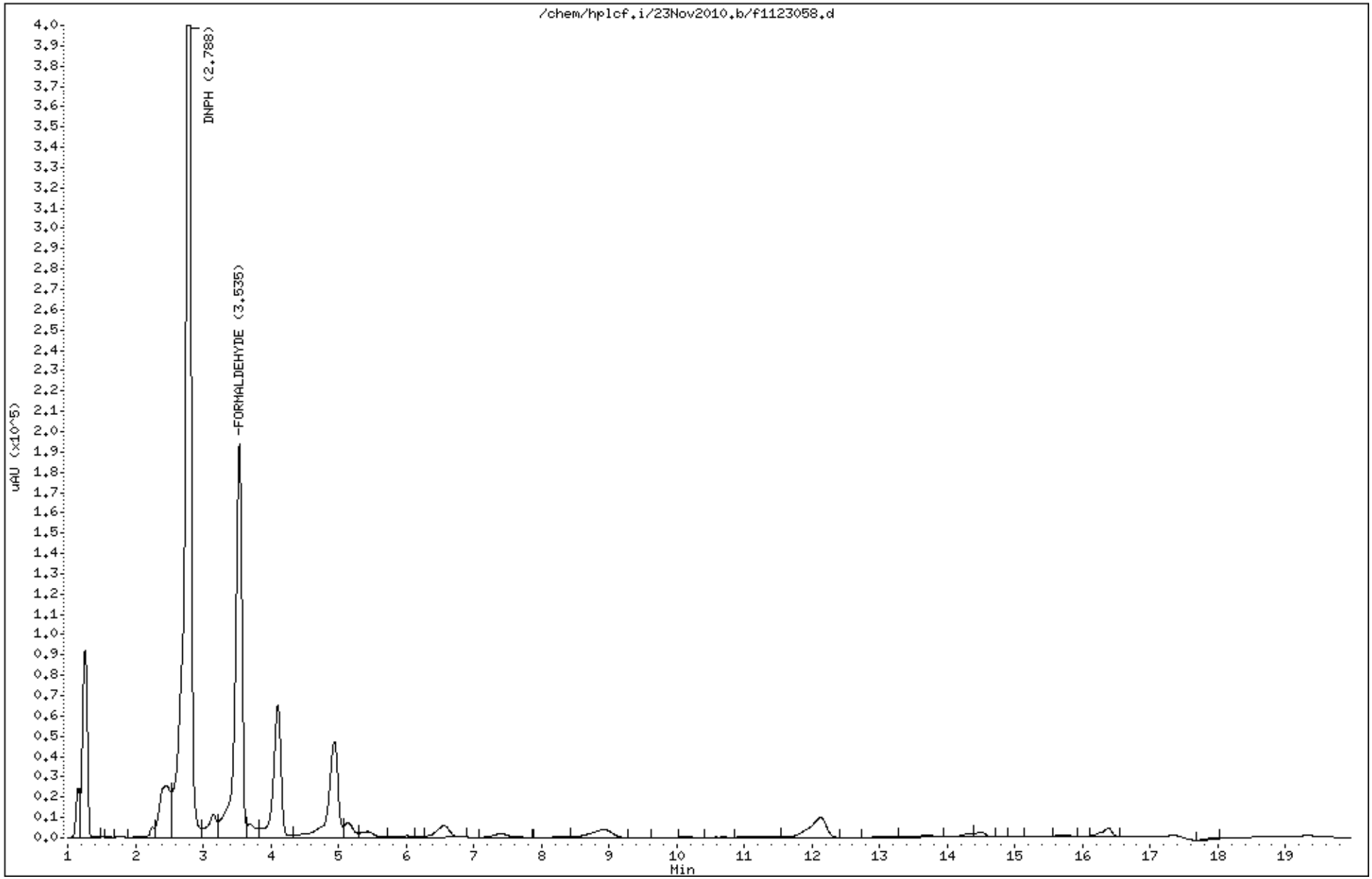
Sample Info: ;1011418A-12A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118717

Lab ID#: 1011418A-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	71	36

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118717

Lab ID#: 1011418A-13A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123059**	**Date of Collection: 11/15/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 11/24/10 03:51 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	71	36

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123059.d
Lab Smp Id: 1011418A-13A Client Smp ID: 10
Inj Date : 24-NOV-2010 03:51
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-13A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.851	2.885	-0.034	2382924		
2 FORMALDEHYDE	3.604	3.598	0.006	1934594	17.6717	70.7

Data File: /chem/hplcf.i/23Nov2010.b/f1123059.d

Date : 24-NOV-2010 03:51

Client ID: 10

Instrument: hplcf.i

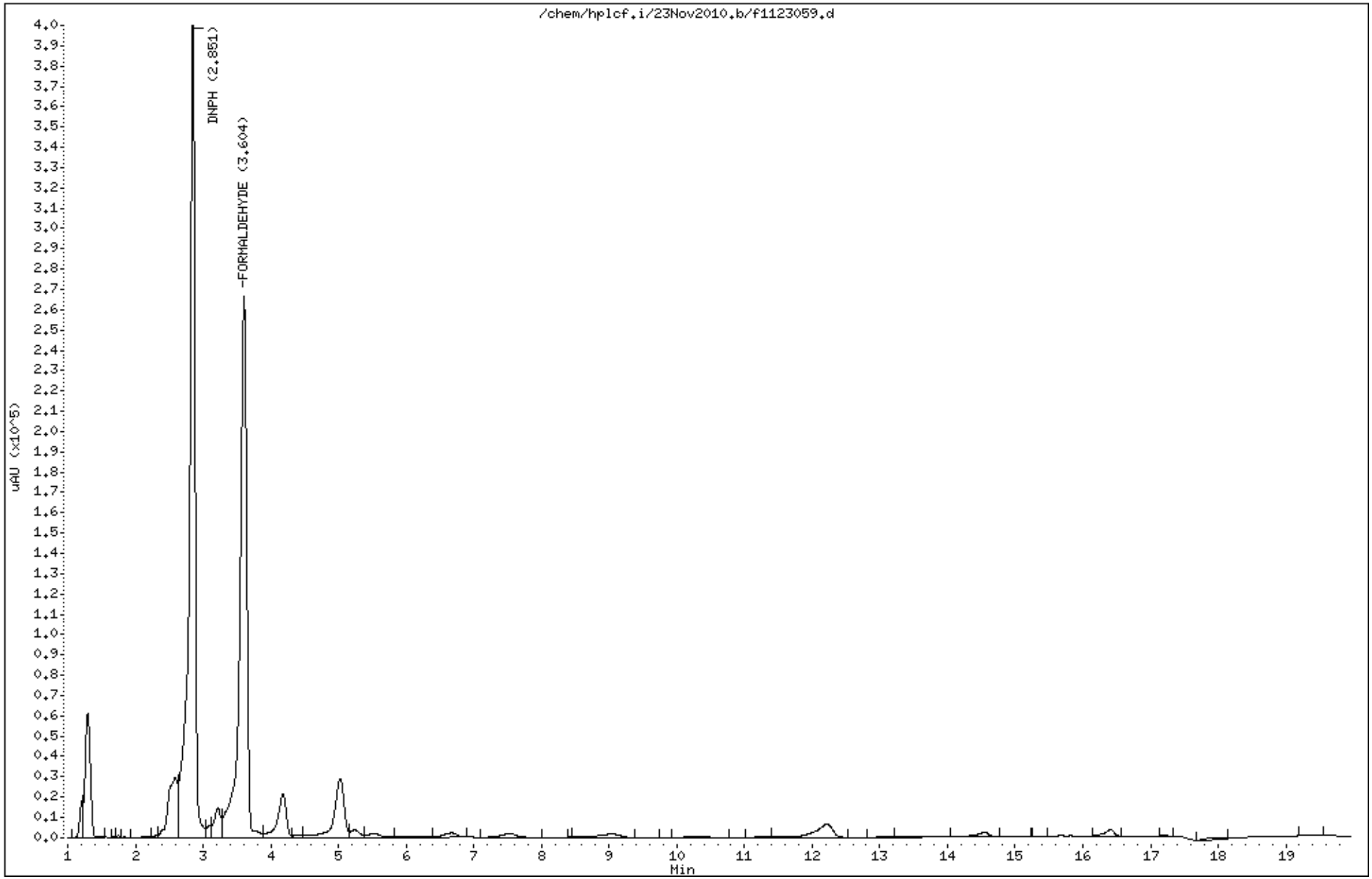
Sample Info: ;1011418A-13A;10

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118718

Lab ID#: 1011418A-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	2.5	1.3

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118718

Lab ID#: 1011418A-14A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123045**	**Date of Collection: 11/15/10**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 10:59 PM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	2.5	1.3

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123045.d
Lab Smp Id: 1011418A-14A
Inj Date : 23-NOV-2010 22:59
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-14A;
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.869	2.885	-0.016	18999471		
2 FORMALDEHYDE	3.629	3.598	0.031	689184	6.29540	2.52

Data File: /chem/hplcf.i/23Nov2010.b/f1123045.d

Date : 23-NOV-2010 22:59

Client ID:

Instrument: hplcf.i

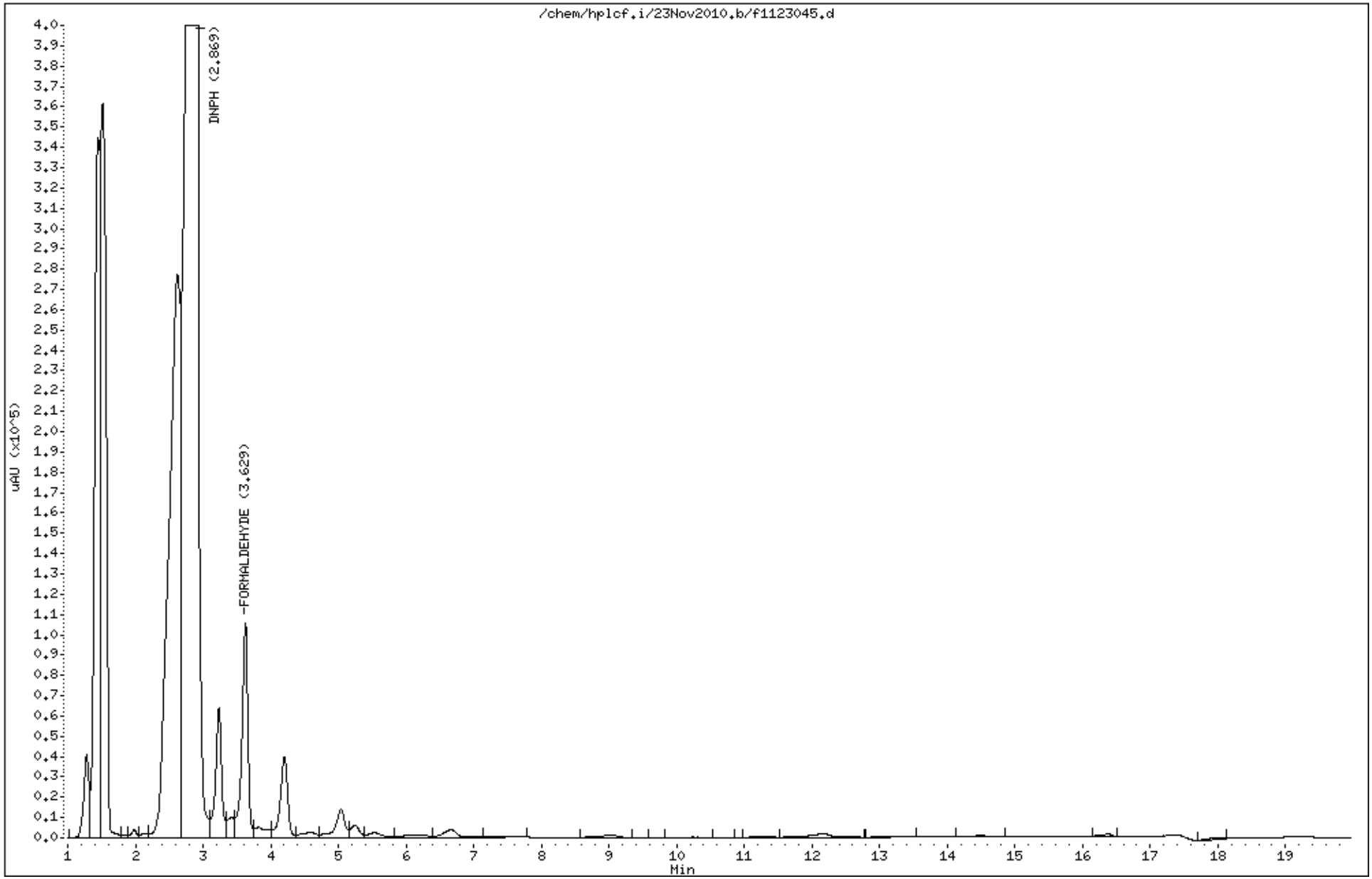
Sample Info: ;1011418A-14A;

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 118719

Lab ID#: 1011418A-15A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 118719

Lab ID#: 1011418A-15A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123037**	**Date of Collection: 11/15/10**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 08:12 PM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123037.d
Lab Smp Id: 1011418A-15A
Inj Date : 23-NOV-2010 20:12
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A-15A;
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.882	2.885	-0.003	25837014		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123037.d

Date : 23-NOV-2010 20:12

Client ID:

Instrument: hplcf.i

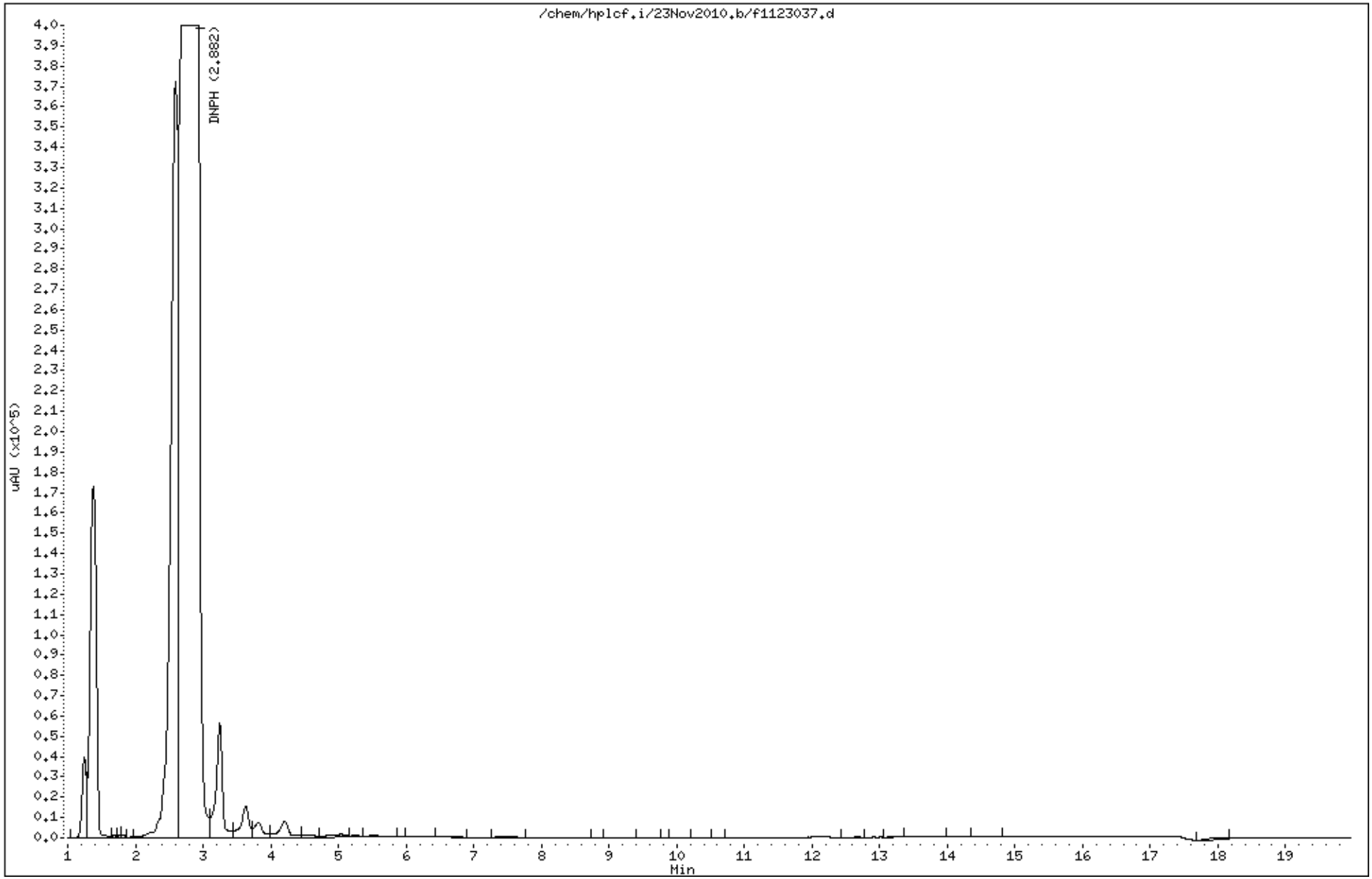
Sample Info: ;1011418A-15A;

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1011418A-16A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123010**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 10:48 AM**	
		Date of Extraction: 11/23/10	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123010.d
Lab Smp Id: 1011418A Client Smp ID: Lab Blank
Inj Date : 23-NOV-2010 10:48
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A;Lab Blank
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.906	2.885	0.021	33905003		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123010.d

Date : 23-NOV-2010 10:48

Client ID: Lab Blank

Instrument: hplcf.i

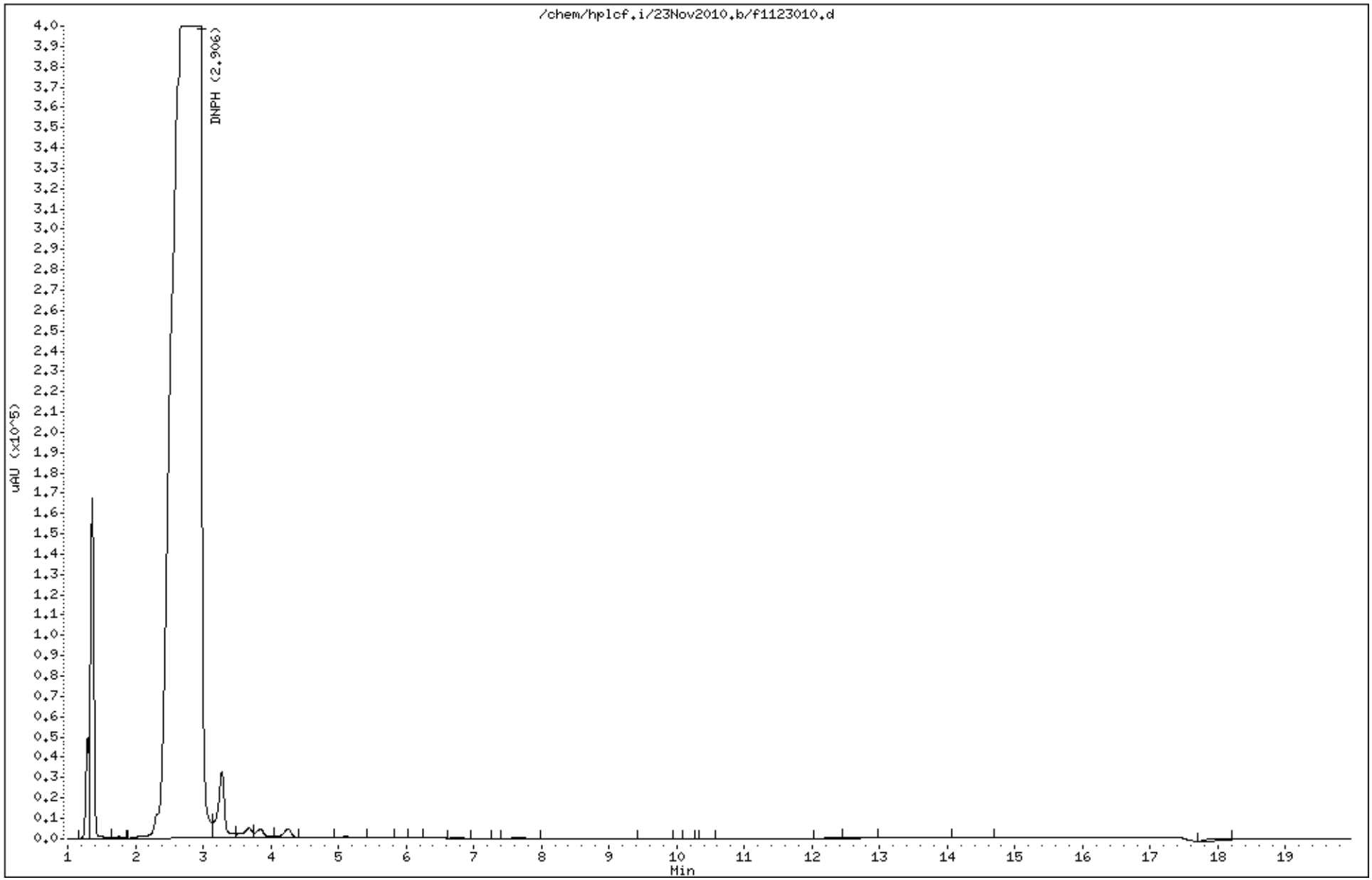
Sample Info: ;1011418A;Lab Blank

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: f1123020.d & f1123019.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 11/23/10 & 11/23/10

CAS Number	Compound	Original Amount	Flags	Duplicate Amount	Flags	RPD	Result Less Than 5X RL
50-00-0	Formaldehyde	99		99		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 : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Calibration File Names:
Level 1: /chem/hplcf.i/14Sep2010.b/f0914011.d
Level 2: /chem/hplcf.i/14Sep2010.b/f0914014.d
Level 3: /chem/hplcf.i/14Sep2010.b/f0914017.d
Level 4: /chem/hplcf.i/14Sep2010.b/f0914020.d
Level 5: /chem/hplcf.i/14Sep2010.b/f0914023.d
Level 6: /chem/hplcf.i/14Sep2010.b/f0914026.d
Level 7: /chem/hplcf.i/14Sep2010.b/f0914029.d
Level 8: /chem/hplcf.i/14Sep2010.b/f0914032.d
Level 9: /chem/hplcf.i/14Sep2010.b/f0914035.d
Level 10: /chem/hplcf.i/14Sep2010.b/f0914038.d

Compound	0.05000 Level 1 / 10.000 Level 7	0.10000 Level 2 / 20.000 Level 8	0.25000 Level 3 / 50.000 Level 9	0.50000 Level 4 / 75.000 Level 10	1.000 Level 5	4.000 Level 6	___ RRF	% RSD
1 DNPH	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++
2 FORMALDEHYDE	123853 / 108702	105887 / 112707	102244 / 114514	90559 / 118333	105563	112382	109474	8.163
3 ACETALDEHYDE	+++++ / 83072	84153 / 85795	81685 / 86254	84358 / 90148	82946	88016	85159	3.051
4 ACROLEIN	+++++ / 78948	+++++ / 81614	76745 / 82596	81228 / 86166	78019	83736	81132	3.696
5 ACETONE	+++++ / 60075	+++++ / 62505	60665 / 62587	62663 / 65230	60964	63905	62324	2.766
6 PROPANAL	+++++ / 60743	+++++ / 62795	60604 / 62980	62370 / 66291	61076	64615	62684	3.112

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	___ RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
7 CROTONAL	+++++	+++++	55455	58038	55288	58300		
	54847	56743	57118	59765			56944	2.948
9 BUTYRALS/MEK	+++++	+++++	50991	54916	52929	55652		
	52447	54263	54682	57186			54133	3.608
10 BENZALDEHYDE	+++++	+++++	37551	37827	36952	39328		
	37138	38317	38582	40377			38259	3.289
11 ISO-PENTANAL	+++++	+++++	43787	45109	43981	46732		
	43928	45776	46097	48239			45456	3.516
12 PENTANAL	+++++	+++++	42595	45053	43361	45852		
	43050	44975	45307	47409			44700	3.561
14 O-TOLUALDEHYDE	+++++	+++++	37437	37216	35100	36651		
	34745	36139	36359	38081			36466	3.147
15 M,P-TOLUALDEHYDE	+++++	+++++	31477	31077	29474	31144		
	29314	30236	30483	31864			30634	3.179
16 HEXANAL	+++++	+++++	42072	41339	39329	40825		
	38336	39490	39729	41553			40334	3.839
17 2,5-Dimethylbenzaldehyde	+++++	+++++	32847	31021	28793	29408		
	27544	28236	28401	29711			29495	5.961

Calibration History

Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Start Cal Date: 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
14-SEP-2010 17:27	form	/chem/hplcf.i/14Sep2010.b/f0914011.d
14-SEP-2010 17:07	form	/chem/hplcf.i/14Sep2010.b/f0914010.d
14-SEP-2010 16:46	form	/chem/hplcf.i/14Sep2010.b/f0914009.d
Cal Level: 2 , Cal Amount: 0.10000		
14-SEP-2010 18:30	F+A+M,P	/chem/hplcf.i/14Sep2010.b/f0914014.d
14-SEP-2010 18:09	F+A+M,P	/chem/hplcf.i/14Sep2010.b/f0914013.d
14-SEP-2010 17:48	F+A+M,P	/chem/hplcf.i/14Sep2010.b/f0914012.d
Cal Level: 3 , Cal Amount: 0.25000		
14-SEP-2010 19:33	all	/chem/hplcf.i/14Sep2010.b/f0914017.d
14-SEP-2010 19:12	all	/chem/hplcf.i/14Sep2010.b/f0914016.d
14-SEP-2010 18:51	all	/chem/hplcf.i/14Sep2010.b/f0914015.d
Cal Level: 4 , Cal Amount: 0.50000		
14-SEP-2010 20:35	all	/chem/hplcf.i/14Sep2010.b/f0914020.d
14-SEP-2010 20:15	all	/chem/hplcf.i/14Sep2010.b/f0914019.d
14-SEP-2010 19:54	all	/chem/hplcf.i/14Sep2010.b/f0914018.d
Cal Level: 5 , Cal Amount: 1.00000		
14-SEP-2010 21:38	all	/chem/hplcf.i/14Sep2010.b/f0914023.d
14-SEP-2010 21:17	all	/chem/hplcf.i/14Sep2010.b/f0914022.d
14-SEP-2010 20:56	all	/chem/hplcf.i/14Sep2010.b/f0914021.d
Cal Level: 6 , Cal Amount: 4.00000		
14-SEP-2010 22:41	all	/chem/hplcf.i/14Sep2010.b/f0914026.d
14-SEP-2010 22:20	all	/chem/hplcf.i/14Sep2010.b/f0914025.d
14-SEP-2010 21:59	all	/chem/hplcf.i/14Sep2010.b/f0914024.d

Cal Level: 7 , Cal Amount: 10.00000		
14-SEP-2010 23:44	all	/chem/hplcf.i/14Sep2010.b/f0914029.d
14-SEP-2010 23:23	all	/chem/hplcf.i/14Sep2010.b/f0914028.d
14-SEP-2010 23:02	all	/chem/hplcf.i/14Sep2010.b/f0914027.d

Cal Level: 8 , Cal Amount: 20.00000		
15-SEP-2010 00:46	all	/chem/hplcf.i/14Sep2010.b/f0914032.d
15-SEP-2010 00:25	all	/chem/hplcf.i/14Sep2010.b/f0914031.d
15-SEP-2010 00:04	all	/chem/hplcf.i/14Sep2010.b/f0914030.d

Cal Level: 9 , Cal Amount: 50.00000		
15-SEP-2010 01:49	all	/chem/hplcf.i/14Sep2010.b/f0914035.d
15-SEP-2010 01:28	all	/chem/hplcf.i/14Sep2010.b/f0914034.d
15-SEP-2010 01:07	all	/chem/hplcf.i/14Sep2010.b/f0914033.d

Cal Level: 10, Cal Amount: 75.00000		
15-SEP-2010 02:52	all	/chem/hplcf.i/14Sep2010.b/f0914038.d
15-SEP-2010 02:31	all	/chem/hplcf.i/14Sep2010.b/f0914037.d
15-SEP-2010 02:10	all	/chem/hplcf.i/14Sep2010.b/f0914036.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 4.00		
14-SEP-2010 22:41	all	/chem/hplcf.i/14Sep2010.b/f0914026.d

Ccal Level: 6 , Ccal Amount: 4.00		
14-SEP-2010 22:20	all	/chem/hplcf.i/14Sep2010.b/f0914025.d

Ccal Level: 6 , Ccal Amount: 4.00		
14-SEP-2010 21:59	all	/chem/hplcf.i/14Sep2010.b/f0914024.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Cory Leaf 9/20/10

2nd source : f0914040.d

Calibration File Names:
Level 1: /chem/hplcf.i/14Sep2010.b/f0914011.d
Level 2: /chem/hplcf.i/14Sep2010.b/f0914014.d
Level 3: /chem/hplcf.i/14Sep2010.b/f0914017.d
Level 4: /chem/hplcf.i/14Sep2010.b/f0914020.d
Level 5: /chem/hplcf.i/14Sep2010.b/f0914023.d
Level 6: /chem/hplcf.i/14Sep2010.b/f0914026.d
Level 7: /chem/hplcf.i/14Sep2010.b/f0914029.d
Level 8: /chem/hplcf.i/14Sep2010.b/f0914032.d
Level 9: /chem/hplcf.i/14Sep2010.b/f0914035.d
Level 10: /chem/hplcf.i/14Sep2010.b/f0914038.d

See history

Based on a 20uL injection 9/21/10

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
ug/5mL								
1 DNPH	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 FORMALDEHYDE	✓123853	✓105887	✓102244	✓90559	✓105563	✓112382		
	✓108702	✓112707	✓114514	✓118333			✓109474	✓8.163
3 ACETALDEHYDE	+++++	✓84153	✓81685	✓84358	✓82946	✓88016		
	✓83072	✓85795	✓86254	✓90148			✓85159	✓3.051
4 ACROLEIN	+++++	+++++	76745	81228	78019	83736		
	78948	81614	82596	86166			81132	3.696
5 ACETONE	+++++	+++++	60665	62663	60964	63905		
	60075	62505	62587	65230			62324	2.766
6 PROPANAL	+++++	+++++	60604	62370	61076	64615		
	60743	62795	62980	66291			62684	3.112

CAL 9/20/10

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 14-SEP-2010 16:46
End Cal Date : 15-SEP-2010 02:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Cal Date : 15-Sep-2010 09:40 cleaf
Curve Type : Average

Compound	0.05000 Level 1	0.10000 Level 2	0.25000 Level 3	0.50000 Level 4	1.000 Level 5	4.000 Level 6	___ RRF	% RSD
	10.000 Level 7	20.000 Level 8	50.000 Level 9	75.000 Level 10				
7 CROTONAL	+++++	+++++	55455	58038	55288	58300		
	54847	56743	57118	59765			56944	2.948
9 BUTYRALS/MEK	+++++	+++++	50991	54916	52929	55652		
	52447	54263	54682	57186			54133	3.608
10 BENZALDEHYDE	+++++	+++++	37551	37827	36952	39328		
	37138	38317	38582	40377			38259	3.289
11 ISO-PENTANAL	+++++	+++++	43787	45109	43981	46732		
	43928	45776	46097	48239			45456	3.516
12 PENTANAL	+++++	+++++	42595	45053	43361	45852		
	43050	44975	45307	47409			44700	3.561
14 O-TOLUALDEHYDE	+++++	+++++	37437	37216	35100	36651		
	34745	36139	36359	38081			36466	3.147
15 M,P-TOLUALDEHYDE	+++++	+++++	31477	31077	29474	31144		
	29314	30236	30483	31864			30634	3.179
16 HEXANAL	+++++	+++++	42072	41339	39329	40825		
	38336	39490	39729	41553			40334	3.839
17 2,5-Dimethylbenzaldehyde	+++++	+++++	32847	31021	28793	29408		
	27544	28236	28401	29711			29495	5.961

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: All Methods (DNPH) Pressure: 87 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	fo914008	ACN WASH	1.00	CRL	9/14/10	1625	CRL	equilibrating system
✓	9	1838-34-0.05				1625 1646		level 1
✓	10	↓				1707		↓
✓	11					1727		
✓	12	1838-34-0.1				1748		level 2
✓	13	↓				1809		↓
✓	14					1830		
✓	15	1838-34-0.25				1851		level 3
✓	16	↓				1912		↓
✓	17					1933		
✓	18	1838-34-0.50				1954		level 4
✓	19	↓				2015		↓
✓	20					2035		
✓	21	1838-34-1.0				2056		level 5
✓	22	↓				2117		↓
✓	23					2138		
✓	24	1838-32-4.0				239		level 6
✓	25	↓				2220		↓
✓	26					2241		
✓	27	1838-34-10.0				2302		level 7
✓	28	↓				2323		↓
✓	29				↓	2344		
✓	30	1838-34-20.0			9/15/10	0004		level 8
✓	31	↓				0025		↓
✓	32					0046		
✓	33	1838-34-50.0				0107		level 9
✓	34	↓				0128		↓
✓	35		↓	↓	↓	0149	↓	

Calculation Check:

File ID: fo914024.d Compound: Crotonol Initials: CRL

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(\ 232736\ )}{(\ 56944\ )} \times (\ 1.00\ ) =$ 4.09

Reported Result: 4.00

Casey Leaf 9/15/10

Signed Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: All DNPH methods Pressure: 87 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	fb914036	1838-34-75.0	1.00	CRL	9/15/10	0210	CRL	level 10
✓	37	↓	↓	↓	↓	0231	↓	↓
✓	38	↓	↓	↓	↓	0252	↓	↓
✓	39	ACN WASH	↓	↓	↓	0312	↓	
✓	40	1838-36-4.0 LCS	↓	↓	↓	0333	↓	LCS

Calculation Check:

File ID:_____ Compound:_____ Initials:_____

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(\quad)}{(\quad)} \times (\quad) =$ [redacted]

Reported Result: [redacted] CRL 9/15/10

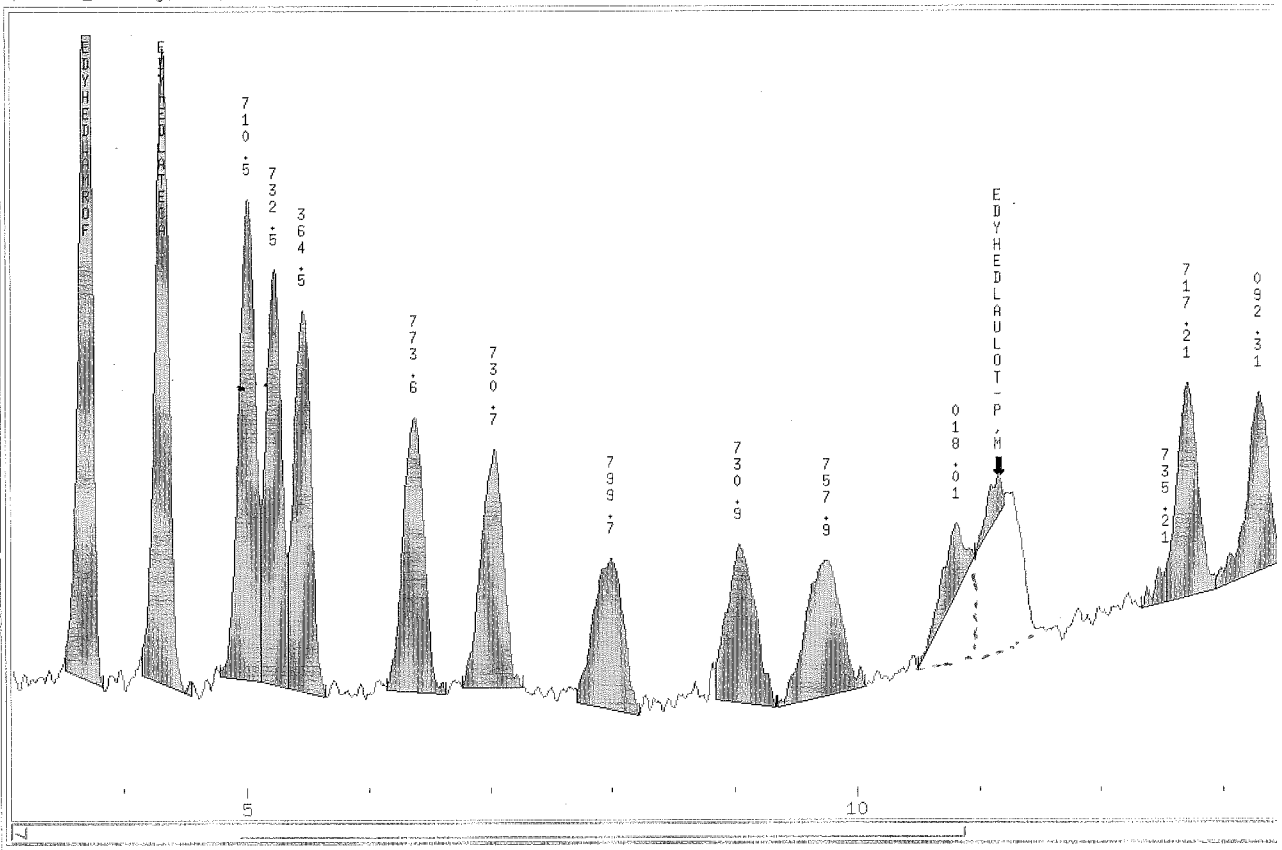
Casey Leaf
Signed

9/15/10
Date

File Security Edit Display Process Help

Sample: 1838-34-0.1 Type: CALIB_2 Inj.Date: 14-SEP-2010 18:30 Col: 1 C-18 REVERSE PHASE

1 DNPH
\+ 2 FORMALDEHYDE
\+ 3 ACETALDEHYDE
\+ 15 M,P-TOLUALDEHY



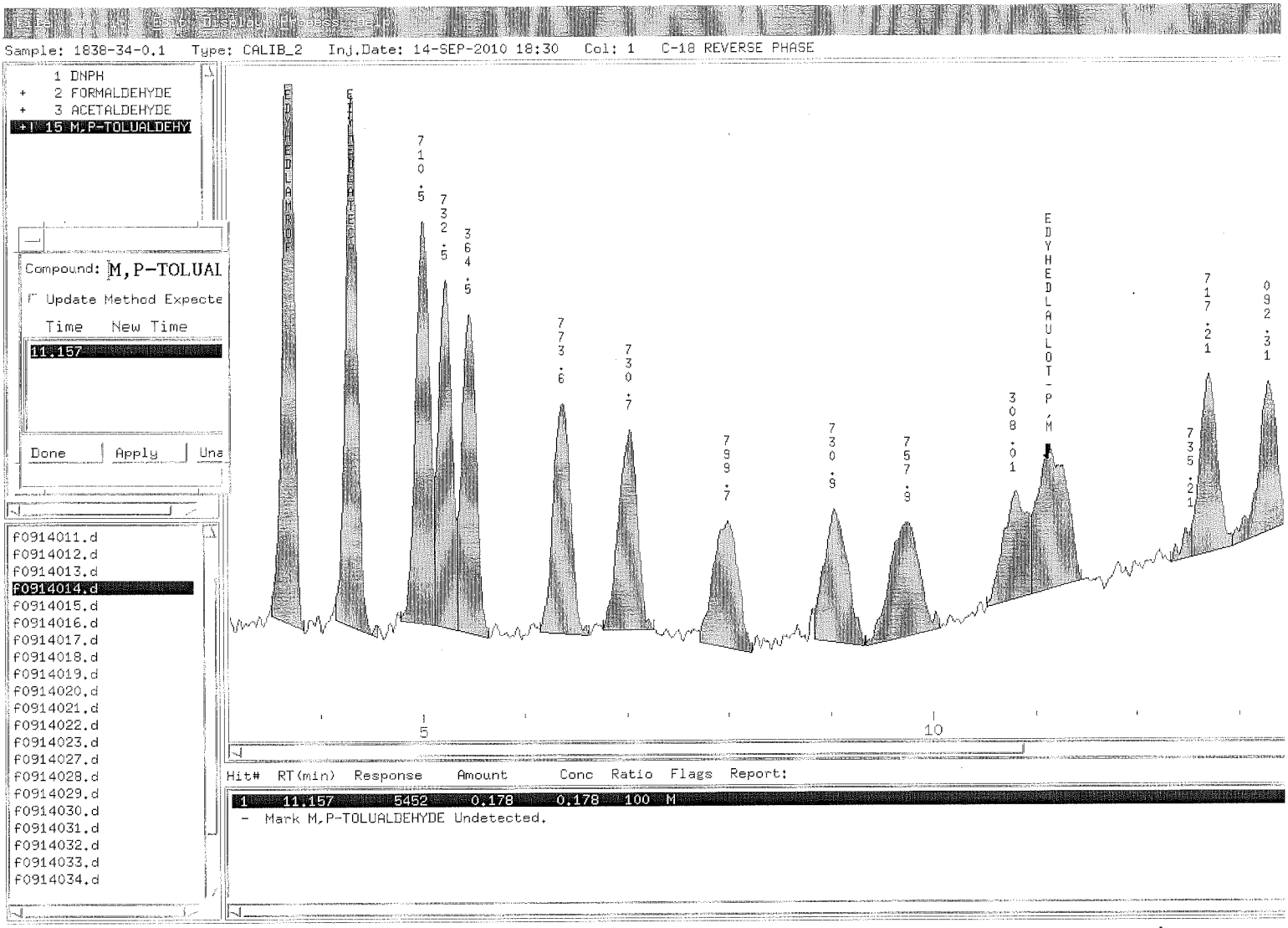
f0914011.d
f0914012.d
f0914013.d
f0914014.d
f0914015.d
f0914016.d
f0914017.d
f0914018.d
f0914019.d
f0914020.d
f0914021.d
f0914022.d
f0914023.d
f0914027.d
f0914028.d
f0914029.d
f0914030.d
f0914031.d
f0914032.d
f0914033.d
f0914034.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	11.165	15167	0.490	0.490	100		

\- Mark M,P-TOLUALDEHYDE Undetected.

Before: Assign baseline and split peak

AR 9/15/10



After	9/15/10
Correct Baseline	✓
Split Peak	✓
Merge Peak	N/A
Zoom In	✓
Change Parameter	N/A
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

9/15/10

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914040.d
Lab Smp Id: 1838-36-4.0 Client Smp ID: LCS
Inj Date : 15-SEP-2010 03:33
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-36-4.0;LCS
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:54 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.741	3.703	0.038	459327	4.19575	4.20
3 ACETALDEHYDE	4.375	4.323	0.052	346792	4.07232	4.07
4 ACROLEIN	5.095	5.093	0.002	321649	3.96455	3.96
5 ACETONE	5.301	5.300	0.001	259469	4.16321	4.16
6 PROPANAL	5.542	5.546	-0.004	253071	4.03724	4.04
7 CROTONAL	6.488	6.480	0.008	235642	4.13814	4.14
9 BUTYRALS/MEK	7.141	7.146	-0.005	218369	4.03393	4.03
10 BENZALDEHYDE	8.175	8.166	0.009	157886	4.12678	4.13
11 ISO-PENTANAL	9.281	9.260	0.021	183154	4.02926	4.03
12 PENTANAL	9.955	9.946	0.009	174549	3.90489	3.90
14 O-TOLUALDEHYDE	11.035	11.026	0.009	143736	3.94165	3.94
15 M,P-TOLUALDEHYDE	11.341	11.157	0.184	251412	8.20703	8.21
16 HEXANAL	12.861	12.853	0.008	157763	3.91141	3.91
17 2,5-Dimethylbenzaldehyde	13.455	13.453	0.002	115179	3.90508	3.90

Report Date: 15-Sep-2010 09:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Sep2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-36-4.0 Client Smp ID: LCS
Level: MED Operator: CRL
Data Type: LC DATA SampleType: LCS
SpikeList File: 4ug2nd.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/14Sep2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	4.00	4.20	104.89	85-115
3 ACETALDEHYDE	4.00	4.07	101.81	85-115
4 ACROLEIN	4.00	3.96	99.11	85-115
5 ACETONE	4.00	4.16	104.08	85-115
6 PROPANAL	4.00	4.04	100.93	85-115
7 CROTONAL	4.00	4.14	103.45	85-115
9 BUTYRALS/MEK	4.00	4.03	100.85	85-115
10 BENZALDEHYDE	4.00	4.13	103.17	85-115
11 ISO-PENTANAL	4.00	4.03	100.73	85-115
12 PENTANAL	4.00	3.90	97.62	85-115
14 O-TOLUALDEHYDE	4.00	3.94	98.54	85-115
15 M,P-TOLUALDEHYDE	8.00	8.21	102.59	85-115
16 HEXANAL	4.00	3.91	97.79	85-115
17 2,5-Dimethylbenzal	4.00	3.90	97.63	85-115

Data File: /chem/hplcf.i/14Sep2010.b/f0914040.d

Date : 15-SEP-2010 03:33

Client ID: LCS

Instrument: hplcf.i

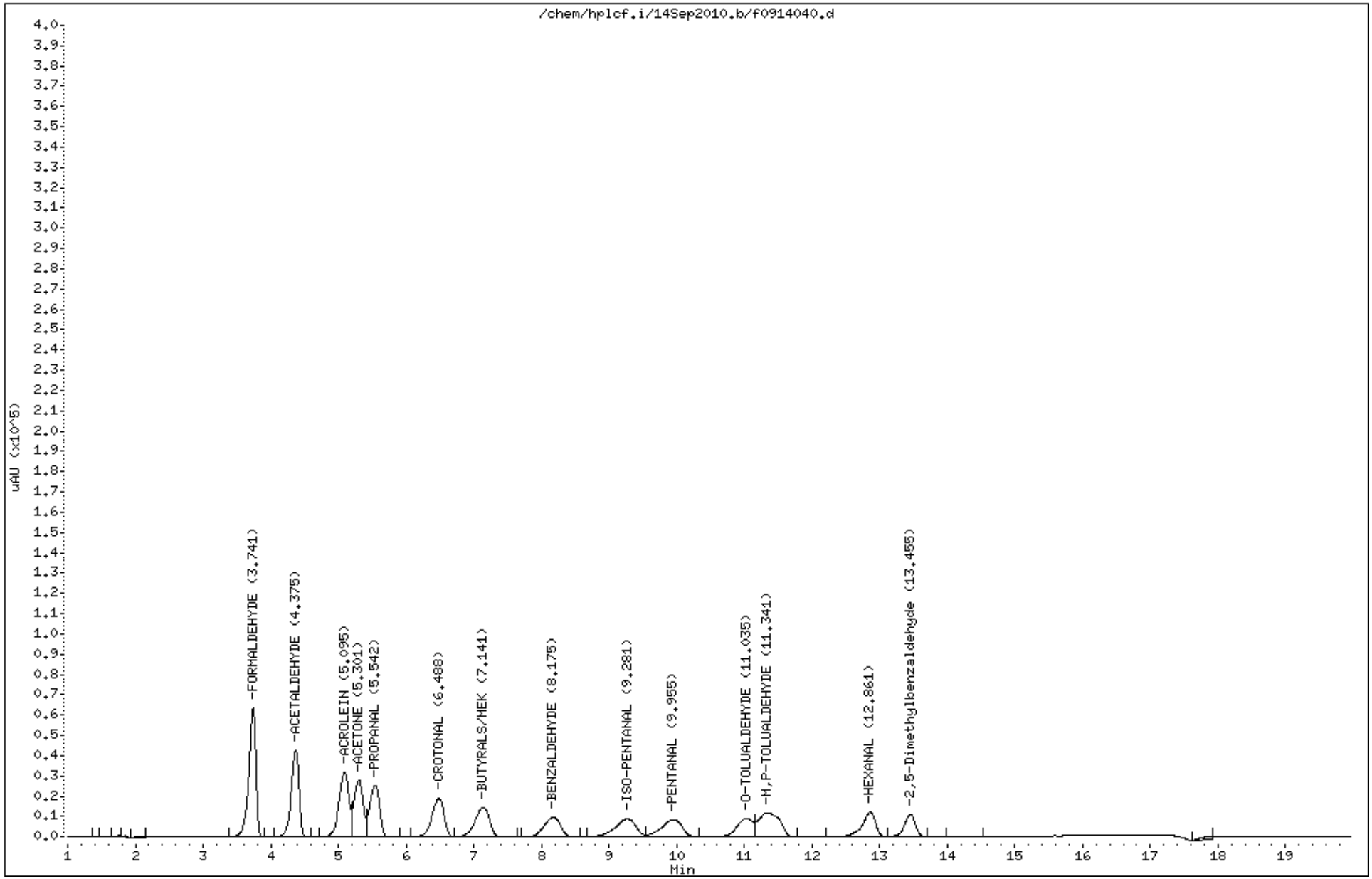
Sample Info: ;1838-36-4.0;LCS

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914011.d
Lab Smp Id: 1838-34-0.05 Client Smp ID: 1
Inj Date : 14-SEP-2010 17:27
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.05;1
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 17:27 Cal File: f0914011.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.680	3.680	0.000	6159	0.05000	0.0521

Data File: /chem/hplcf.i/14Sep2010.b/f0914011.d

Date : 14-SEP-2010 17:27

Client ID: 1

Instrument: hplcf.i

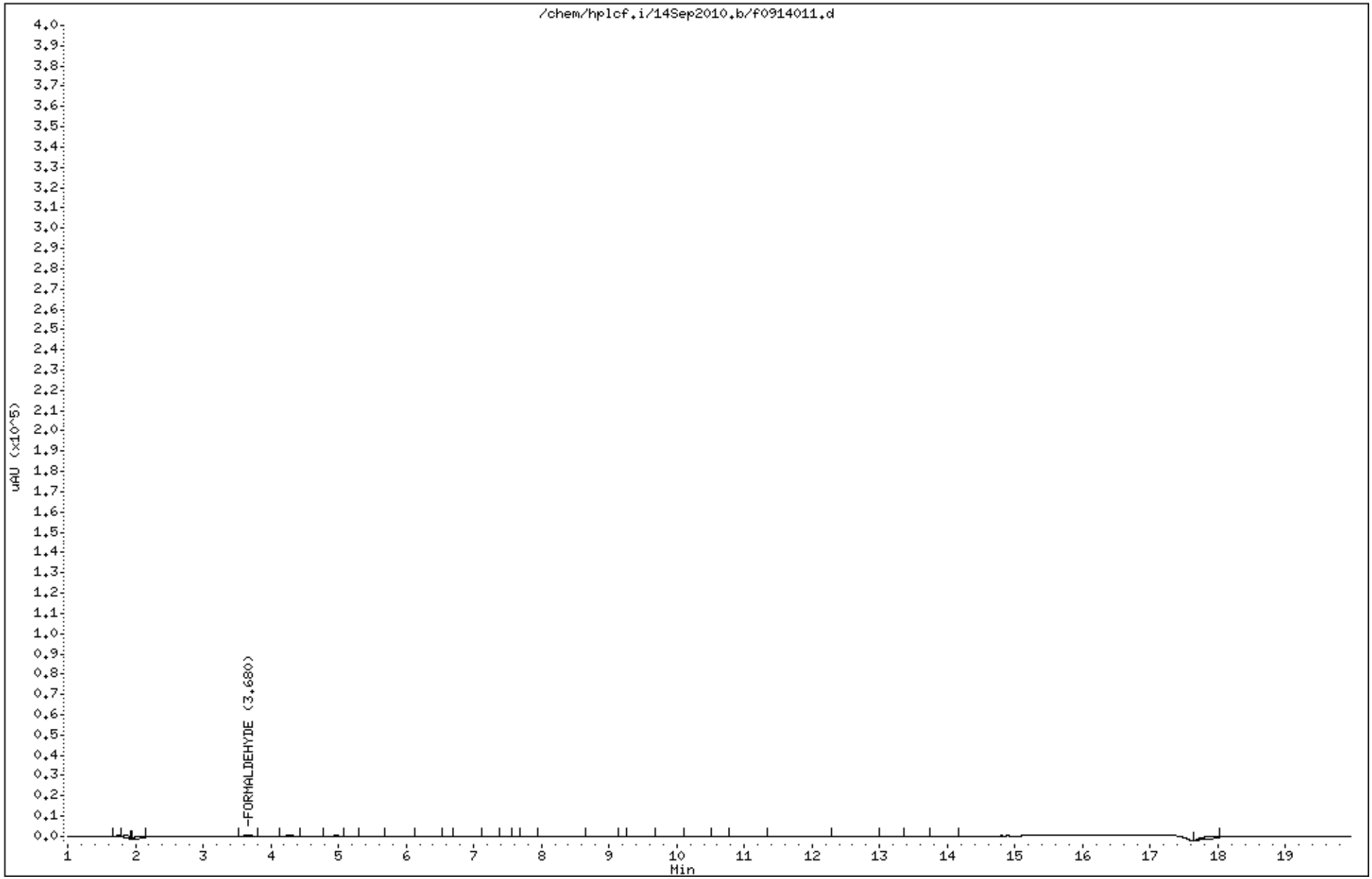
Sample Info: ;1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914010.d
Lab Smp Id: 1838-34-0.05 Client Smp ID: 1
Inj Date : 14-SEP-2010 17:07
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.05;1
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 17:07 Cal File: f0914010.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.673	3.673	0.000	6217	0.05000	0.0531

Data File: /chem/hplcf.i/14Sep2010.b/f0914010.d

Date : 14-SEP-2010 17:07

Client ID: 1

Instrument: hplcf.i

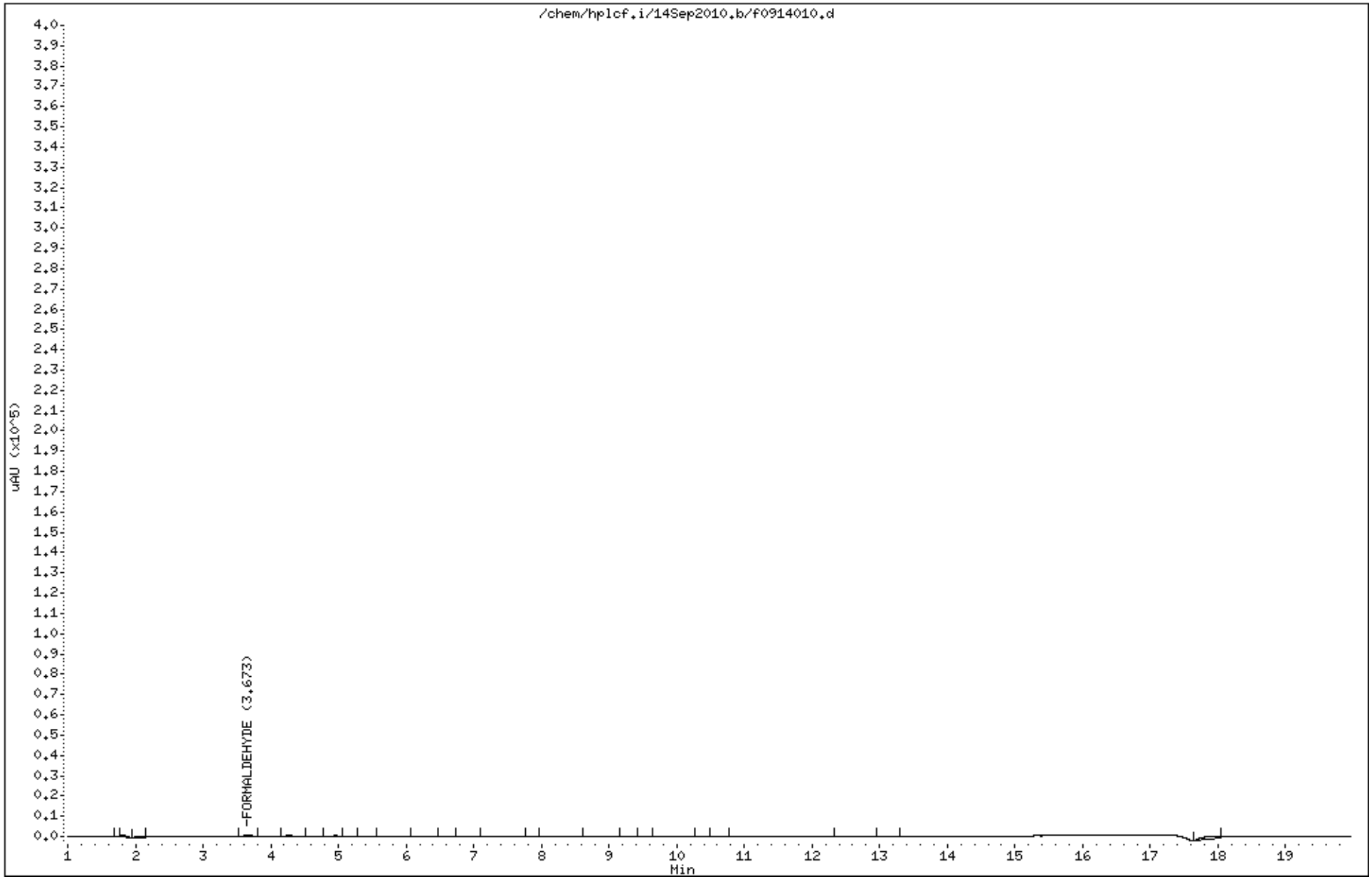
Sample Info: ;1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914009.d
Lab Smp Id: 1838-34-0.05 Client Smp ID: 1
Inj Date : 14-SEP-2010 16:46
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.05;1
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 16:46 Cal File: f0914009.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.669	3.669	0.000	6202	0.05000	0.0538

Data File: /chem/hplcf.i/14Sep2010.b/f0914009.d

Date : 14-SEP-2010 16:46

Client ID: 1

Instrument: hplcf.i

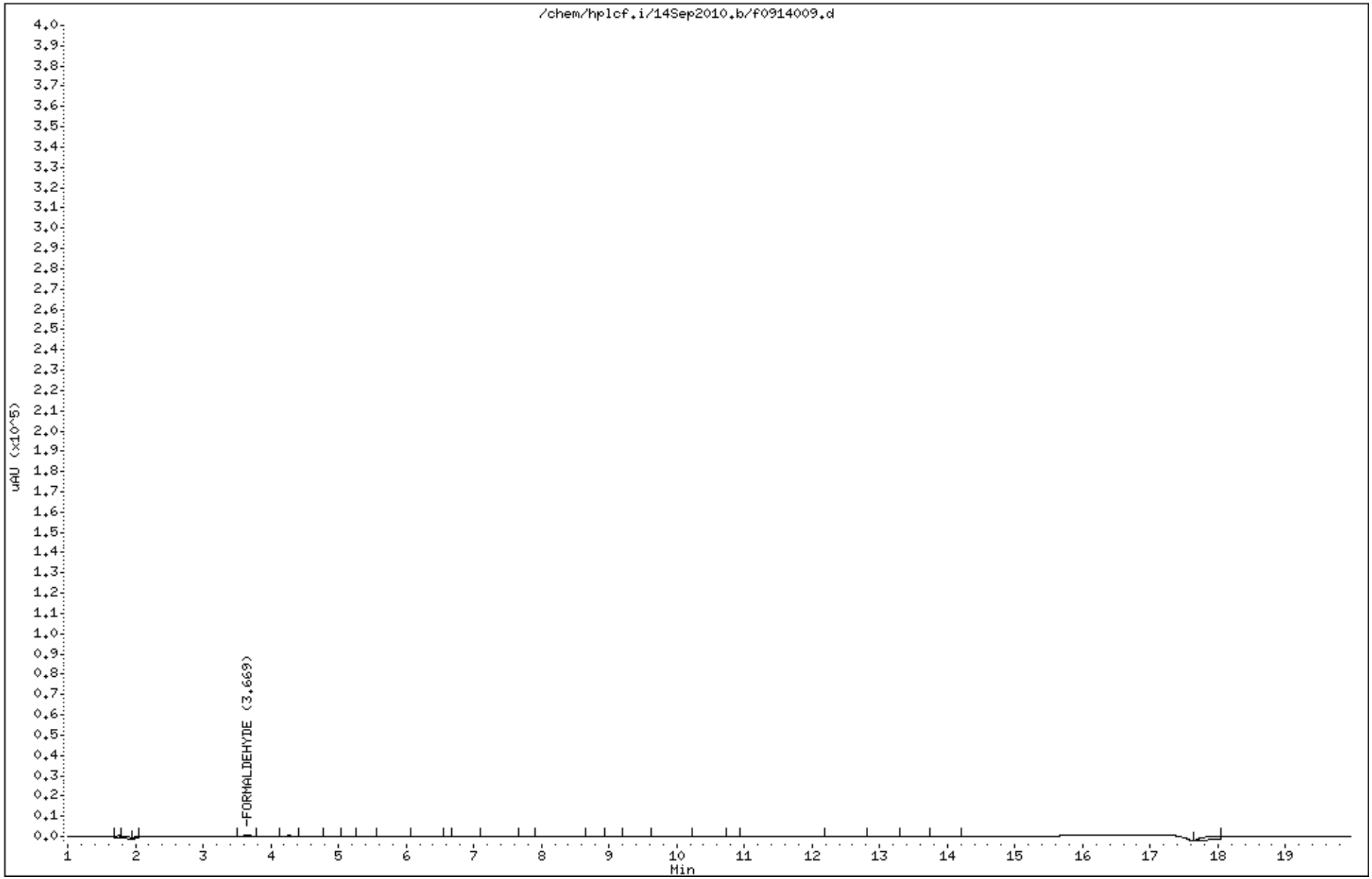
Sample Info: ;1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914014.d
Lab Smp Id: 1838-34-0.1 Client Smp ID: 2
Inj Date : 14-SEP-2010 18:30
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.1;2
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: F+A+M,P.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.703	3.740	-0.037	10562	0.10000	0.0965
3 ACETALDEHYDE	4.323	4.373	-0.050	8338	0.10000	0.0979
15 M,P-TOLUALDEHYDE	11.157	11.333	-0.176	5452	0.20000	0.178(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/hplcf.i/14Sep2010.b/f0914014.d

Date : 14-SEP-2010 18:30

Client ID: 2

Instrument: hplcf.i

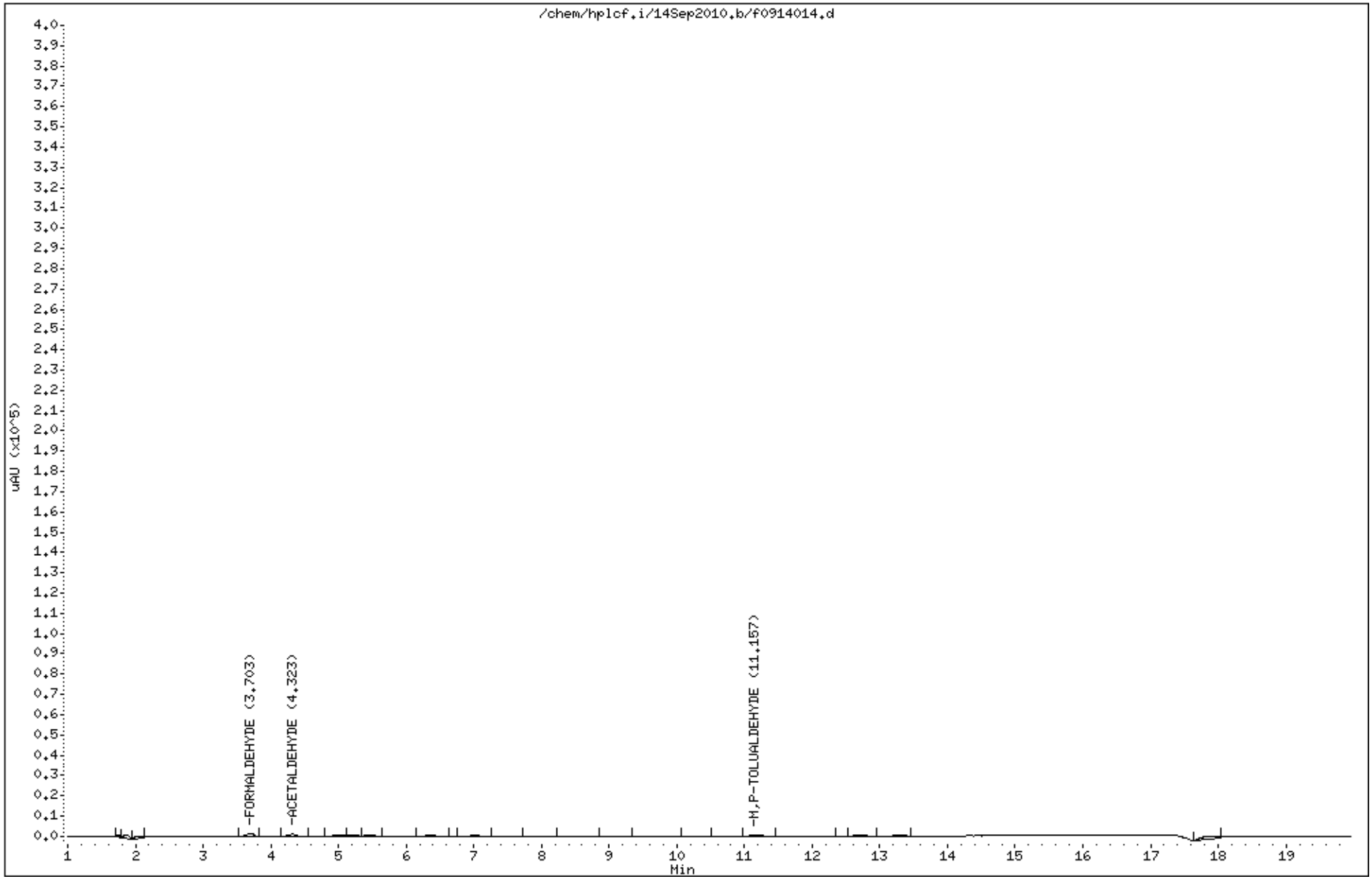
Sample Info: ;1838-34-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914013.d
Lab Smp Id: 1838-34-0.1 Client Smp ID: 2
Inj Date : 14-SEP-2010 18:09
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.1;2
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:09 Cal File: f0914013.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: F+A+M,P.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
==========	==	======	======	========	=======	=======
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.704	3.704	0.000	10430	0.10000	0.0906
3 ACETALDEHYDE	4.324	4.324	0.000	8491	0.10000	0.0980
15 M,P-TOLUALDEHYDE	11.124	11.124	0.000	7199	0.20000	0.231

Data File: /chem/hplcf.i/14Sep2010.b/f0914013.d

Date : 14-SEP-2010 18:09

Client ID: 2

Instrument: hplcf.i

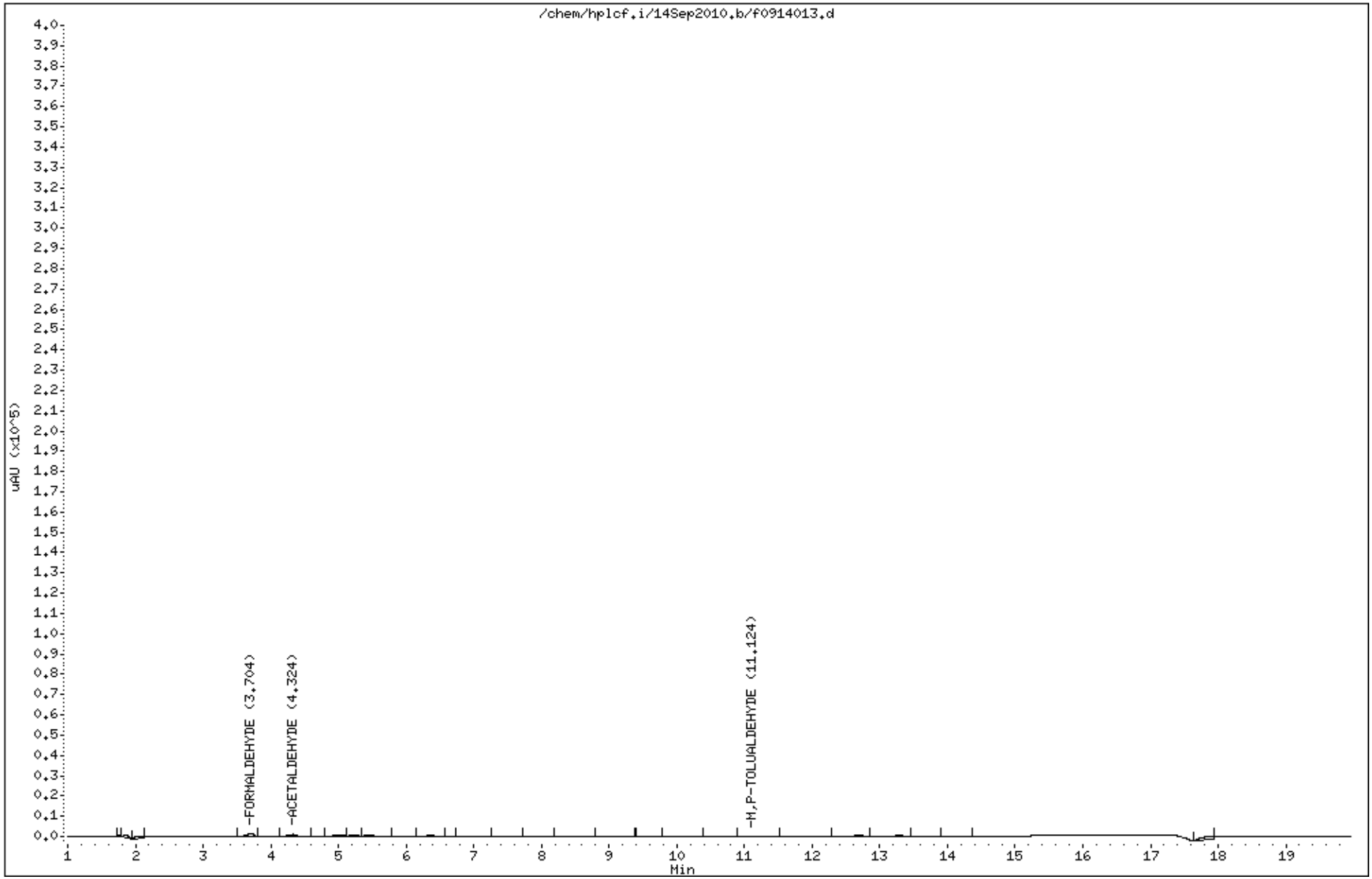
Sample Info: ;1838-34-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914012.d
Lab Smp Id: 1838-34-0.1 Client Smp ID: 2
Inj Date : 14-SEP-2010 17:48
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.1;2
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 17:48 Cal File: f0914012.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: F+A+M,P.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.688	3.688	0.000	10774	0.10000	0.0924
3 ACETALDEHYDE	4.301	4.301	0.000	8417	0.10000	0.0967
15 M,P-TOLUALDEHYDE	11.094	11.094	0.000	7091	0.20000	0.228

Data File: /chem/hplcf.i/14Sep2010.b/f0914012.d

Date : 14-SEP-2010 17:48

Client ID: 2

Instrument: hplcf.i

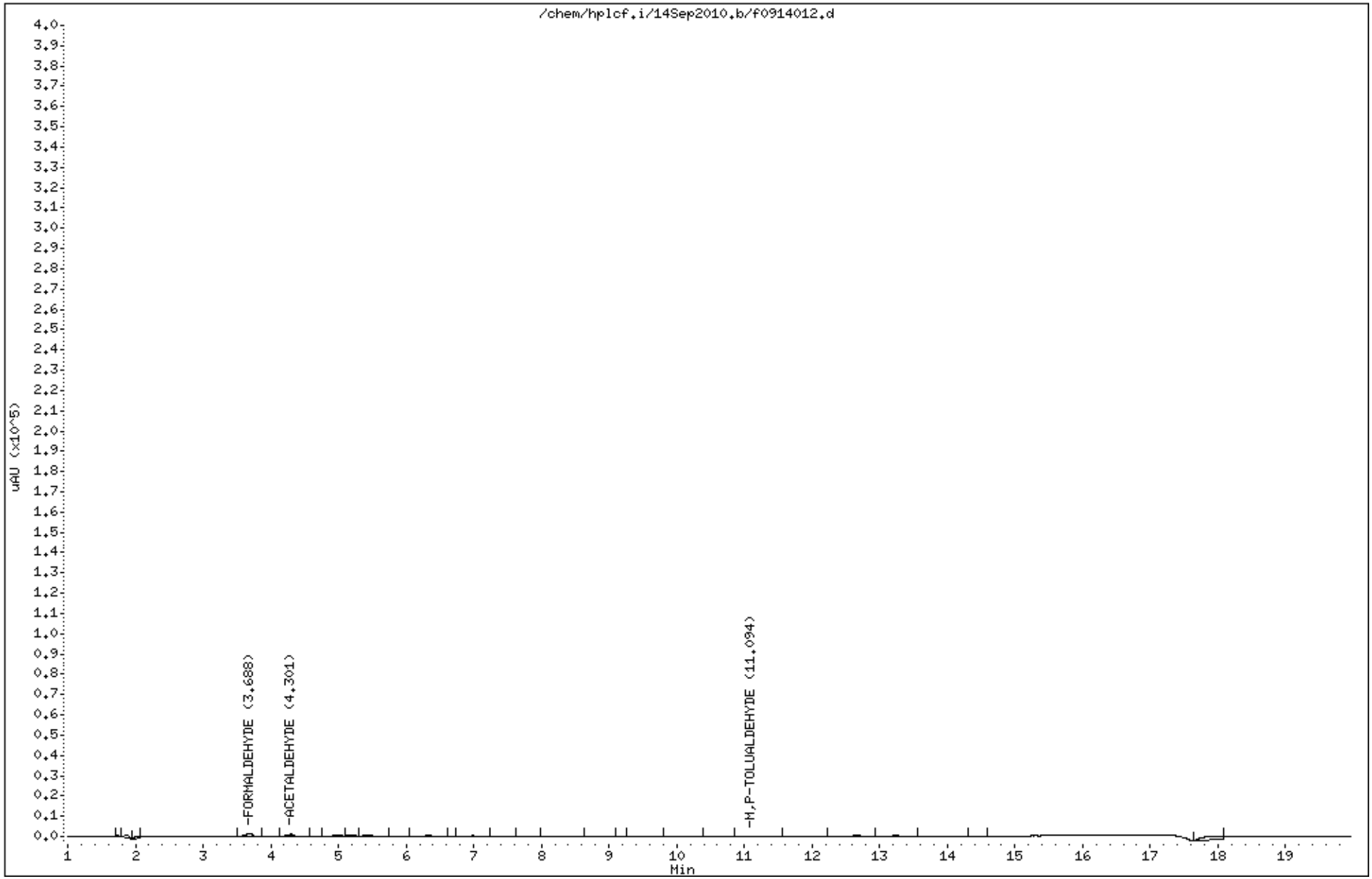
Sample Info: ;1838-34-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914017.d
Lab Smp Id: 1838-34-0.25 Client Smp ID: 3
Inj Date : 14-SEP-2010 19:33
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.25;3
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 19:33 Cal File: f0914017.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.721	3.721	0.000	25225	0.25000	0.227
3 ACETALDEHYDE	4.341	4.341	0.000	20405	0.25000	0.241
4 ACROLEIN	5.055	5.055	0.000	19200	0.25000	0.239
5 ACETONE	5.261	5.261	0.000	15302	0.25000	0.246
6 PROPANAL	5.508	5.508	0.000	15417	0.25000	0.246
7 CROTONAL	6.428	6.428	0.000	14175	0.25000	0.249
9 BUTYRALS/MEK	7.095	7.095	0.000	12963	0.25000	0.243
10 BENZALDEHYDE	8.108	8.108	0.000	9855	0.25000	0.256
11 ISO-PENTANAL	9.188	9.188	0.000	11199	0.25000	0.247
12 PENTANAL	9.868	9.868	0.000	10971	0.25000	0.248
14 O-TOLUALDEHYDE	10.908	10.908	0.000	9254	0.25000	0.250
15 M,P-TOLUALDEHYDE	11.241	11.241	0.000	15634	0.50000	0.499
16 HEXANAL	12.801	12.801	0.000	10836	0.25000	0.261
17 2,5-Dimethylbenzaldehyde	13.388	13.388	0.000	8638	0.25000	0.278

Data File: /chem/hplcf.i/14Sep2010.b/f0914017.d

Date : 14-SEP-2010 19:33

Client ID: 3

Instrument: hplcf.i

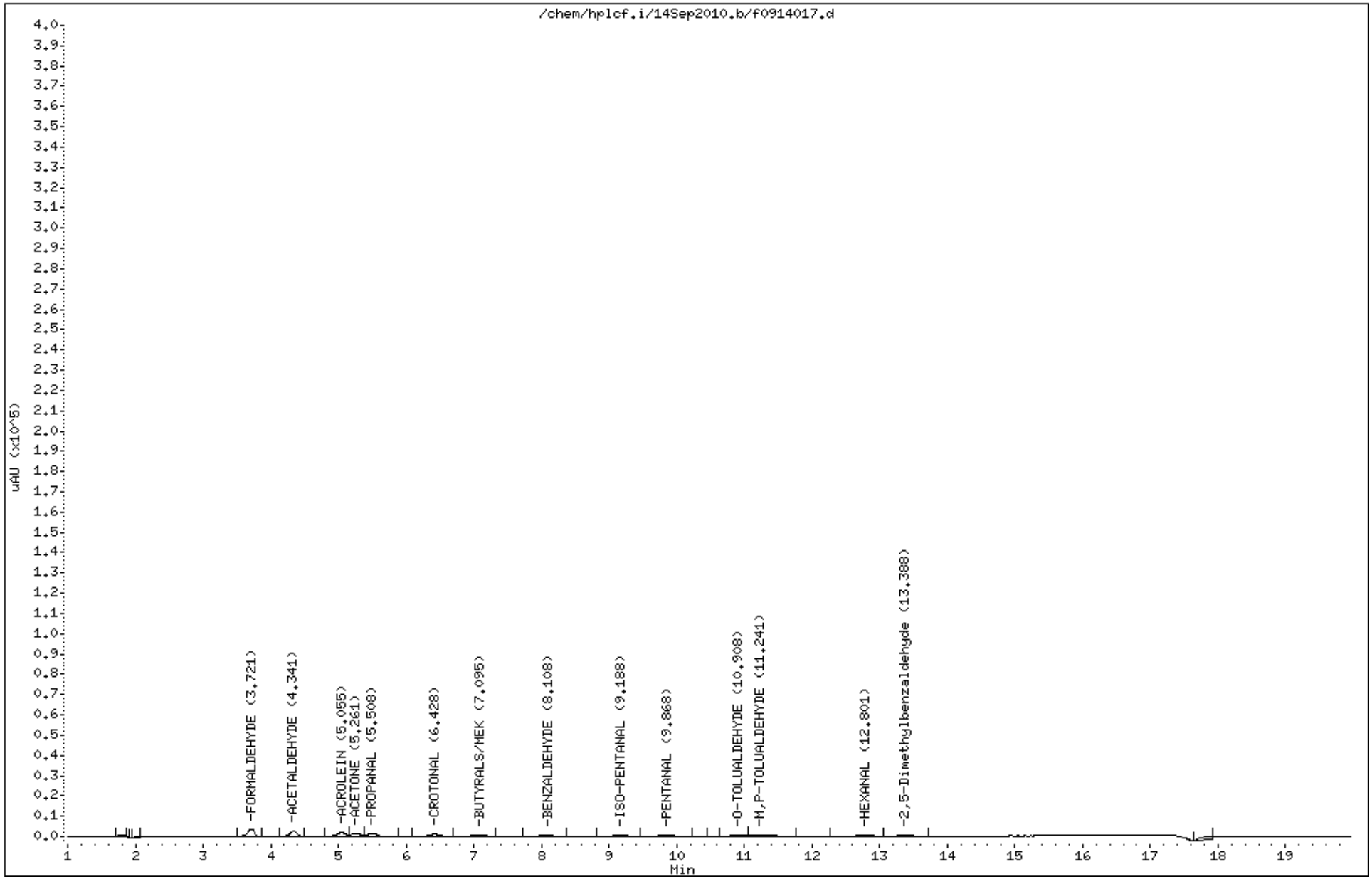
Sample Info: ;1838-34-0.25;3

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914016.d
Lab Smp Id: 1838-34-0.25 Client Smp ID: 3
Inj Date : 14-SEP-2010 19:12
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.25;3
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 19:12 Cal File: f0914016.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.715	3.715	0.000	25598	0.25000	0.228
3 ACETALDEHYDE	4.335	4.335	0.000	20381	0.25000	0.240
4 ACROLEIN	5.041	5.041	0.000	19129	0.25000	0.236
5 ACETONE	5.255	5.255	0.000	14931	0.25000	0.239
6 PROPANAL	5.495	5.495	0.000	15091	0.25000	0.240
7 CROTONAL	6.408	6.408	0.000	13736	0.25000	0.241
9 BUTYRALS/MEK	7.061	7.061	0.000	12498	0.25000	0.233
10 BENZALDEHYDE	8.061	8.061	0.000	9441	0.25000	0.247
11 ISO-PENTANAL	9.148	9.148	0.000	10500	0.25000	0.232
12 PENTANAL	9.821	9.821	0.000	10423	0.25000	0.235
14 O-TOLUALDEHYDE	10.874	10.874	0.000	9638	0.25000	0.260
15 M,P-TOLUALDEHYDE	11.188	11.188	0.000	16415	0.50000	0.524
16 HEXANAL	12.768	12.768	0.000	11060	0.25000	0.269
17 2,5-Dimethylbenzaldehyde	13.354	13.354	0.000	8339	0.25000	0.274

Data File: /chem/hplcf.i/14Sep2010.b/f0914016.d

Date : 14-SEP-2010 19:12

Client ID: 3

Instrument: hplcf.i

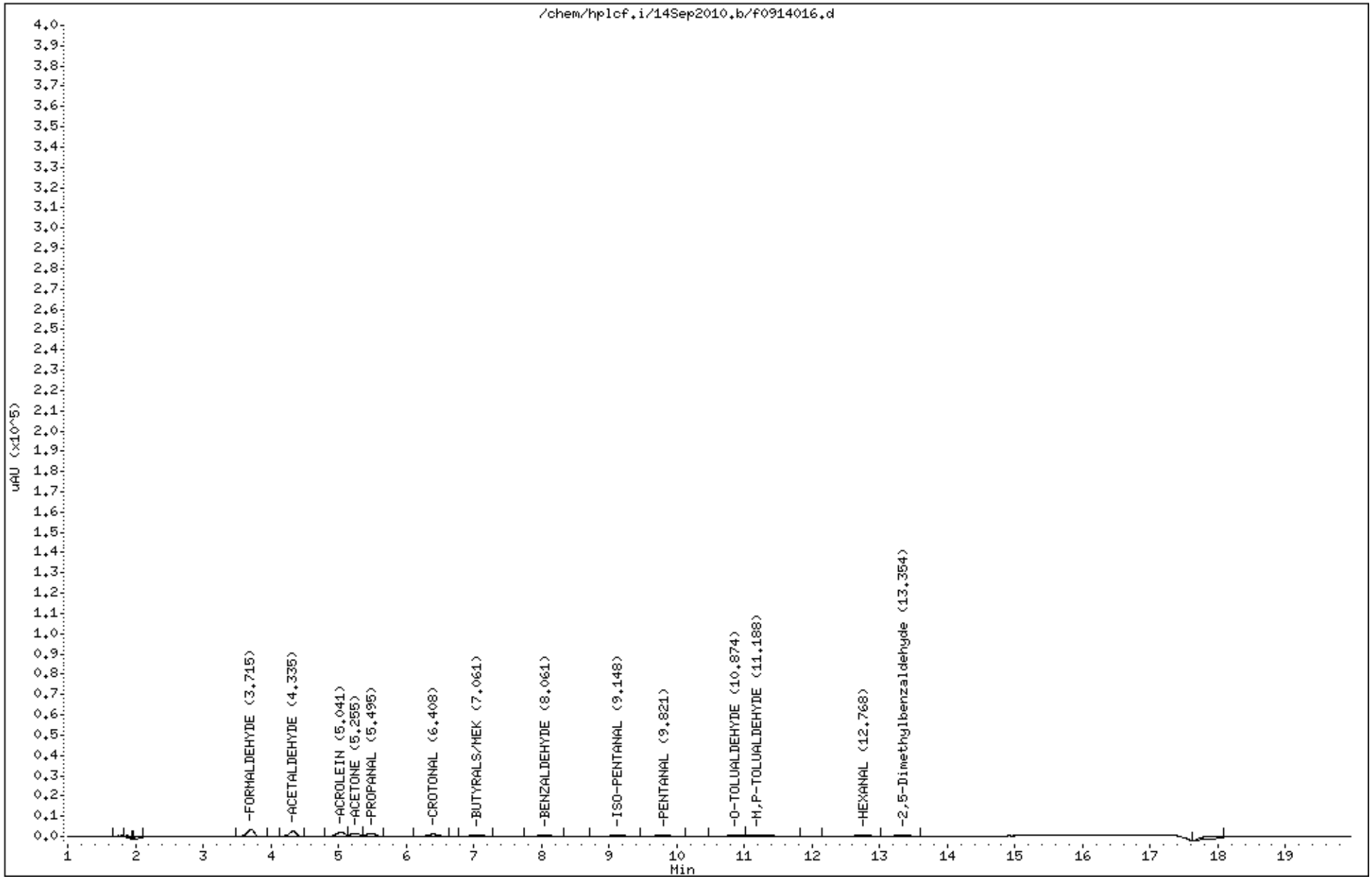
Sample Info: ;1838-34-0.25;3

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914015.d
Lab Smp Id: 1838-34-0.25 Client Smp ID: 3
Inj Date : 14-SEP-2010 18:51
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.25;3
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:51 Cal File: f0914015.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.705	3.705	0.000	25860	0.25000	0.229
3 ACETALDEHYDE	4.325	4.325	0.000	20478	0.25000	0.240
4 ACROLEIN	5.025	5.025	0.000	19230	0.25000	0.234
5 ACETONE	5.238	5.238	0.000	15266	0.25000	0.242
6 PROPANAL	5.472	5.472	0.000	14945	0.25000	0.236
7 CROTONAL	6.385	6.385	0.000	13680	0.25000	0.238
9 BUTYRALS/MEK	7.032	7.032	0.000	12782	0.25000	0.234
10 BENZALDEHYDE	8.005	8.005	0.000	8867	0.25000	0.231
11 ISO-PENTANAL	9.085	9.085	0.000	11141	0.25000	0.241
12 PENTANAL	9.745	9.745	0.000	10552	0.25000	0.235
14 O-TOLUALDEHYDE	10.865	10.865	0.000	9186	0.25000	0.250
15 M,P-TOLUALDEHYDE	11.165	11.165	0.000	15167	0.50000	0.490
16 HEXANAL	12.725	12.725	0.000	9658	0.25000	0.240
17 2,5-Dimethylbenzaldehyde	13.318	13.318	0.000	7658	0.25000	0.258

Data File: /chem/hplcf.i/14Sep2010.b/f0914015.d

Date : 14-SEP-2010 18:51

Client ID: 3

Instrument: hplcf.i

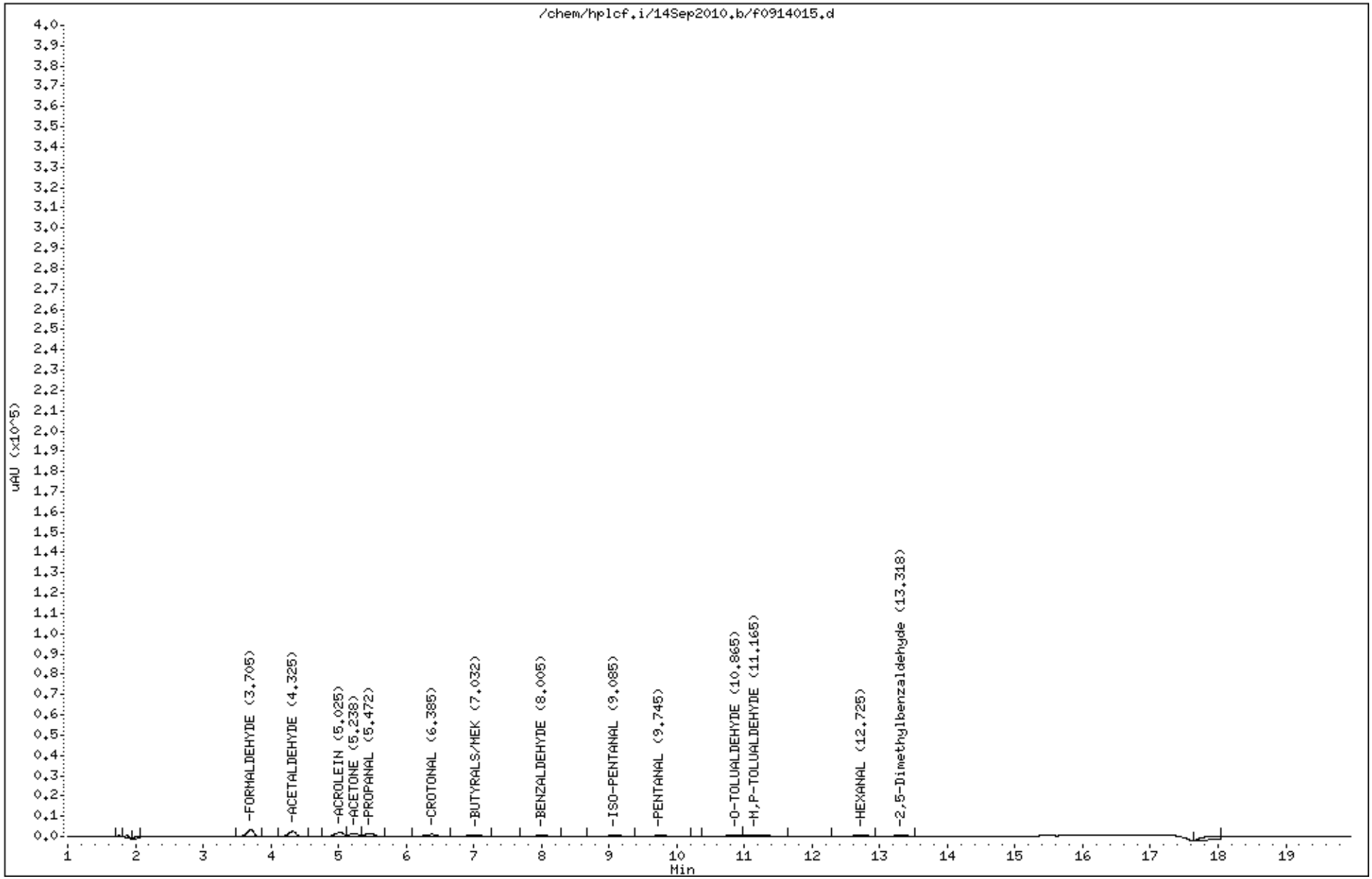
Sample Info: ;1838-34-0.25;3

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914020.d
Lab Smp Id: 1838-34-0.5 Client Smp ID: 4
Inj Date : 14-SEP-2010 20:35
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.5;4
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 20:35 Cal File: f0914020.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.745	3.745	0.000	44981	0.50000	0.420
3 ACETALDEHYDE	4.378	4.378	0.000	42208	0.50000	0.499
4 ACROLEIN	5.098	5.098	0.000	40725	0.50000	0.505
5 ACETONE	5.305	5.305	0.000	31112	0.50000	0.498
6 PROPANAL	5.545	5.545	0.000	31593	0.50000	0.505
7 CROTONAL	6.492	6.492	0.000	28714	0.50000	0.501
9 BUTYRALS/MEK	7.159	7.159	0.000	26645	0.50000	0.495
10 BENZALDEHYDE	8.165	8.165	0.000	18778	0.50000	0.491
11 ISO-PENTANAL	9.285	9.285	0.000	22133	0.50000	0.490
12 PENTANAL	9.979	9.979	0.000	22290	0.50000	0.501
14 O-TOLUALDEHYDE	11.039	11.039	0.000	18580	0.50000	0.501
15 M,P-TOLUALDEHYDE	11.338	11.338	0.000	30599	1.00000	0.980
16 HEXANAL	12.872	12.872	0.000	20818	0.50000	0.503
17 2,5-Dimethylbenzaldehyde	13.465	13.465	0.000	15377	0.50000	0.494

Data File: /chem/hplcf.i/14Sep2010.b/f0914020.d

Date : 14-SEP-2010 20:35

Client ID: 4

Instrument: hplcf.i

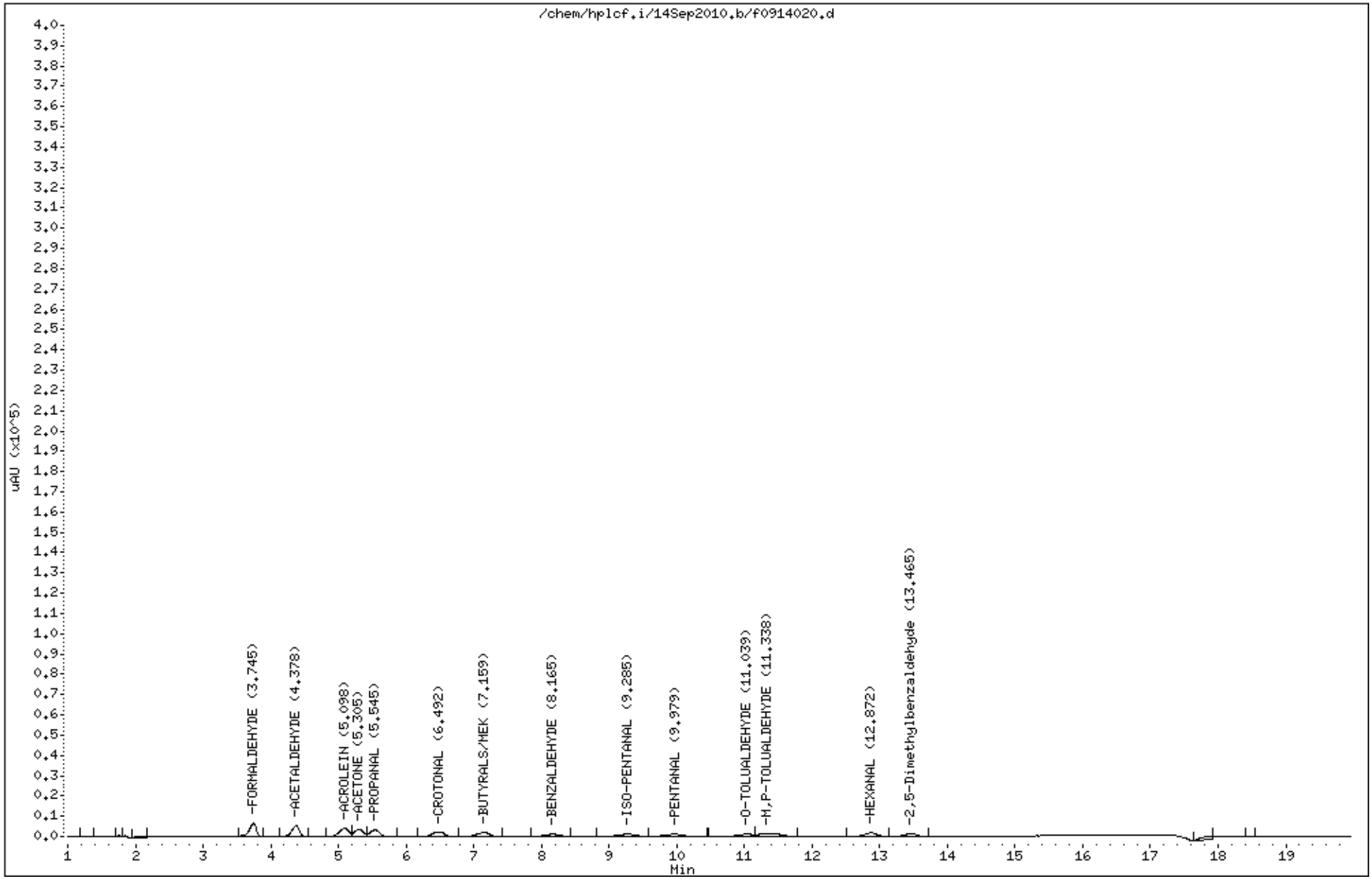
Sample Info: ;1838-34-0.5;4

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914019.d
Lab Smp Id: 1838-34-0.5 Client Smp ID: 4
Inj Date : 14-SEP-2010 20:15
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.5;4
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 20:15 Cal File: f0914019.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.734	3.734	0.000	45340	0.50000	0.419
3 ACETALDEHYDE	4.367	4.367	0.000	41778	0.50000	0.494
4 ACROLEIN	5.081	5.081	0.000	40776	0.50000	0.507
5 ACETONE	5.287	5.287	0.000	31381	0.50000	0.503
6 PROPANAL	5.534	5.534	0.000	31039	0.50000	0.497
7 CROTONAL	6.468	6.468	0.000	29363	0.50000	0.513
9 BUTYRALS/MEK	7.128	7.128	0.000	28301	0.50000	0.525
10 BENZALDEHYDE	8.141	8.141	0.000	18877	0.50000	0.493
11 ISO-PENTANAL	9.241	9.241	0.000	22567	0.50000	0.498
12 PENTANAL	9.921	9.921	0.000	22543	0.50000	0.507
14 O-TOLUALDEHYDE	10.988	10.988	0.000	18387	0.50000	0.496
15 M,P-TOLUALDEHYDE	11.307	11.307	0.000	31335	1.00000	1.00
16 HEXANAL	12.848	12.848	0.000	20238	0.50000	0.489
17 2,5-Dimethylbenzaldehyde	13.434	13.434	0.000	15337	0.50000	0.493

Data File: /chem/hplcf.i/14Sep2010.b/f0914019.d

Date : 14-SEP-2010 20:15

Client ID: 4

Instrument: hplcf.i

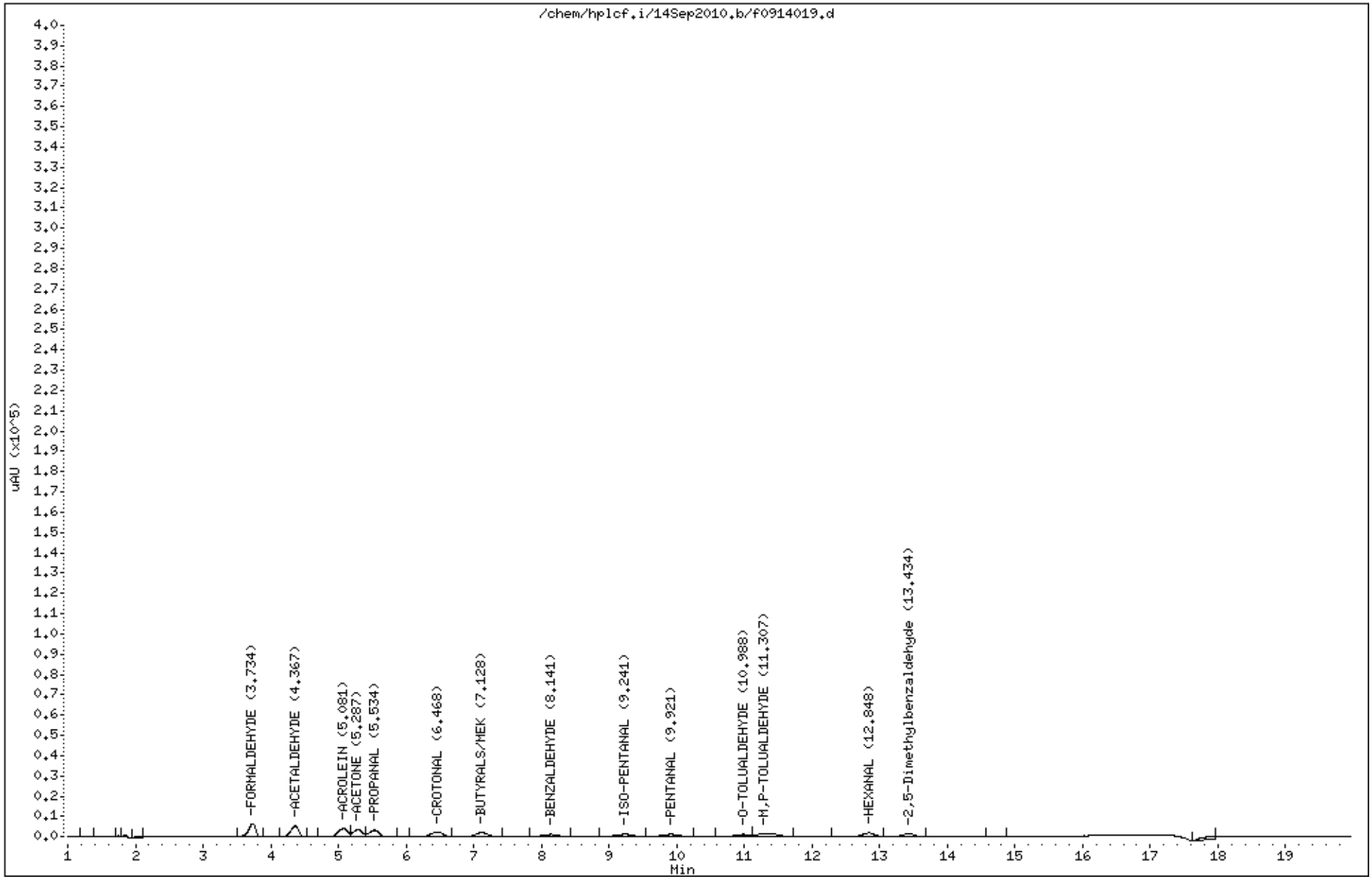
Sample Info: ;1838-34-0.5;4

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914018.d
Lab Smp Id: 1838-34-0.5 Client Smp ID: 4
Inj Date : 14-SEP-2010 19:54
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-0.5;4
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:39 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 19:54 Cal File: f0914018.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.734	3.734	0.000	45518	0.50000	0.416
3 ACETALDEHYDE	4.361	4.361	0.000	42551	0.50000	0.502
4 ACROLEIN	5.081	5.081	0.000	40341	0.50000	0.502
5 ACETONE	5.287	5.287	0.000	31502	0.50000	0.505
6 PROPANAL	5.534	5.534	0.000	30923	0.50000	0.495
7 CROTONAL	6.467	6.467	0.000	28980	0.50000	0.508
9 BUTYRALS/MEK	7.127	7.127	0.000	27428	0.50000	0.512
10 BENZALDEHYDE	8.127	8.127	0.000	19085	0.50000	0.497
11 ISO-PENTANAL	9.227	9.227	0.000	22964	0.50000	0.506
12 PENTANAL	9.907	9.907	0.000	22746	0.50000	0.512
14 O-TOLUALDEHYDE	10.987	10.987	0.000	18857	0.50000	0.508
15 M,P-TOLUALDEHYDE	11.307	11.307	0.000	31298	1.00000	1.000
16 HEXANAL	12.834	12.834	0.000	20952	0.50000	0.505
17 2,5-Dimethylbenzaldehyde	13.421	13.421	0.000	15817	0.50000	0.507

Data File: /chem/hplcf.i/14Sep2010.b/f0914018.d

Date : 14-SEP-2010 19:54

Client ID: 4

Instrument: hplcf.i

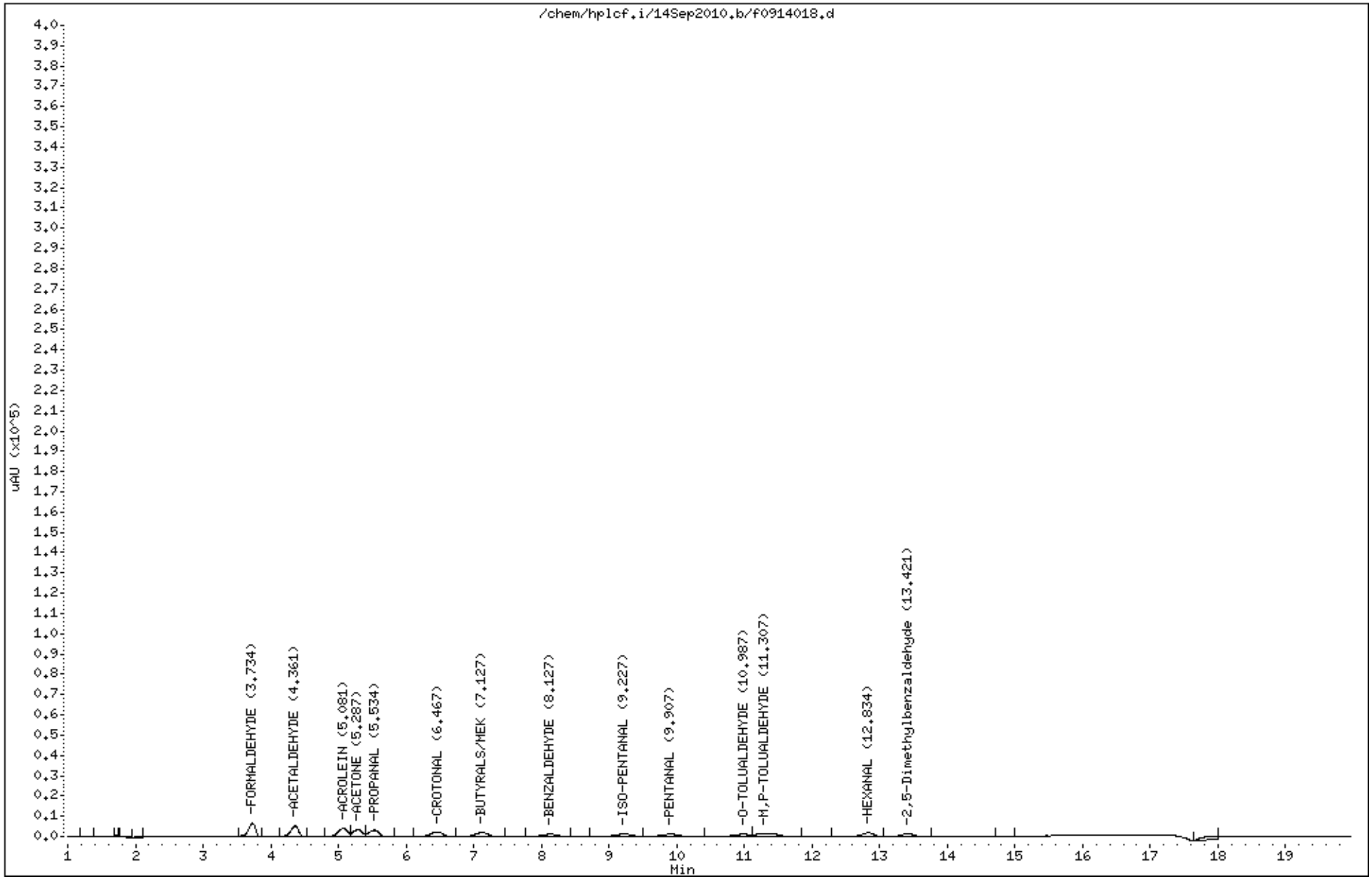
Sample Info: ;1838-34-0.5;4

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914023.d
Lab Smp Id: 1838-34-1.0 Client Smp ID: 5
Inj Date : 14-SEP-2010 21:38
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-1.0;5
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 21:38 Cal File: f0914023.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.739	3.739	0.000	105489	1.00000	0.988
3 ACETALDEHYDE	4.365	4.365	0.000	82932	1.00000	0.984
4 ACROLEIN	5.085	5.085	0.000	78338	1.00000	0.980
5 ACETONE	5.292	5.292	0.000	60890	1.00000	0.981
6 PROPANAL	5.539	5.539	0.000	61135	1.00000	0.983
7 CROTONAL	6.472	6.472	0.000	55126	1.00000	0.971
9 BUTYRALS/MEK	7.139	7.139	0.000	52870	1.00000	0.986
10 BENZALDEHYDE	8.159	8.159	0.000	36794	1.00000	0.970
11 ISO-PENTANAL	9.265	9.265	0.000	44316	1.00000	0.987
12 PENTANAL	9.939	9.939	0.000	43634	1.00000	0.987
14 O-TOLUALDEHYDE	11.019	11.019	0.000	35016	1.00000	0.957
15 M,P-TOLUALDEHYDE	11.325	11.325	0.000	59329	2.00000	1.93
16 HEXANAL	12.852	12.852	0.000	39118	1.00000	0.957
17 2,5-Dimethylbenzaldehyde	13.445	13.445	0.000	28339	1.00000	0.929

Data File: /chem/hplcf.i/14Sep2010.b/f0914023.d

Date : 14-SEP-2010 21:38

Client ID: 5

Instrument: hplcf.i

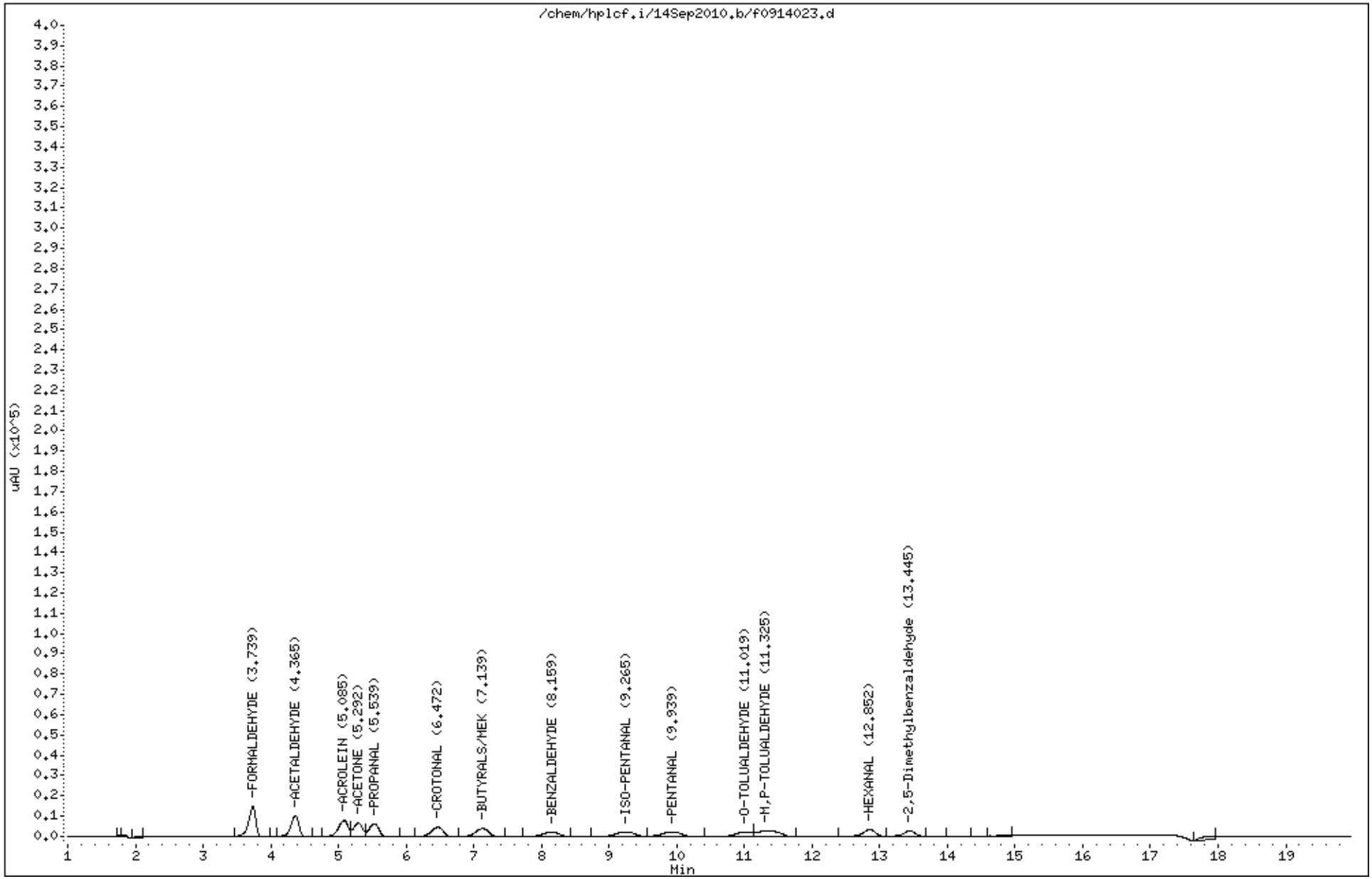
Sample Info: ;1838-34-1.0;5

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914022.d
Lab Smp Id: 1838-34-1.0 Client Smp ID: 5
Inj Date : 14-SEP-2010 21:17
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-1.0;5
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 21:17 Cal File: f0914022.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.747	3.747	0.000	105394	1.00000	0.987
3 ACETALDEHYDE	4.373	4.373	0.000	83089	1.00000	0.985
4 ACROLEIN	5.093	5.093	0.000	77739	1.00000	0.971
5 ACETONE	5.306	5.306	0.000	61069	1.00000	0.982
6 PROPANAL	5.546	5.546	0.000	61304	1.00000	0.985
7 CROTONAL	6.487	6.487	0.000	55721	1.00000	0.979
9 BUTYRALS/MEK	7.153	7.153	0.000	52676	1.00000	0.981
10 BENZALDEHYDE	8.180	8.180	0.000	37230	1.00000	0.979
11 ISO-PENTANAL	9.273	9.273	0.000	43396	1.00000	0.965
12 PENTANAL	9.960	9.960	0.000	42834	1.00000	0.968
14 O-TOLUALDEHYDE	11.027	11.027	0.000	35079	1.00000	0.955
15 M,P-TOLUALDEHYDE	11.340	11.340	0.000	58406	2.00000	1.89
16 HEXANAL	12.867	12.867	0.000	39102	1.00000	0.952
17 2,5-Dimethylbenzaldehyde	13.453	13.453	0.000	29132	1.00000	0.948

Data File: /chem/hplcf.i/14Sep2010.b/f0914022.d

Date : 14-SEP-2010 21:17

Client ID: 5

Instrument: hplcf.i

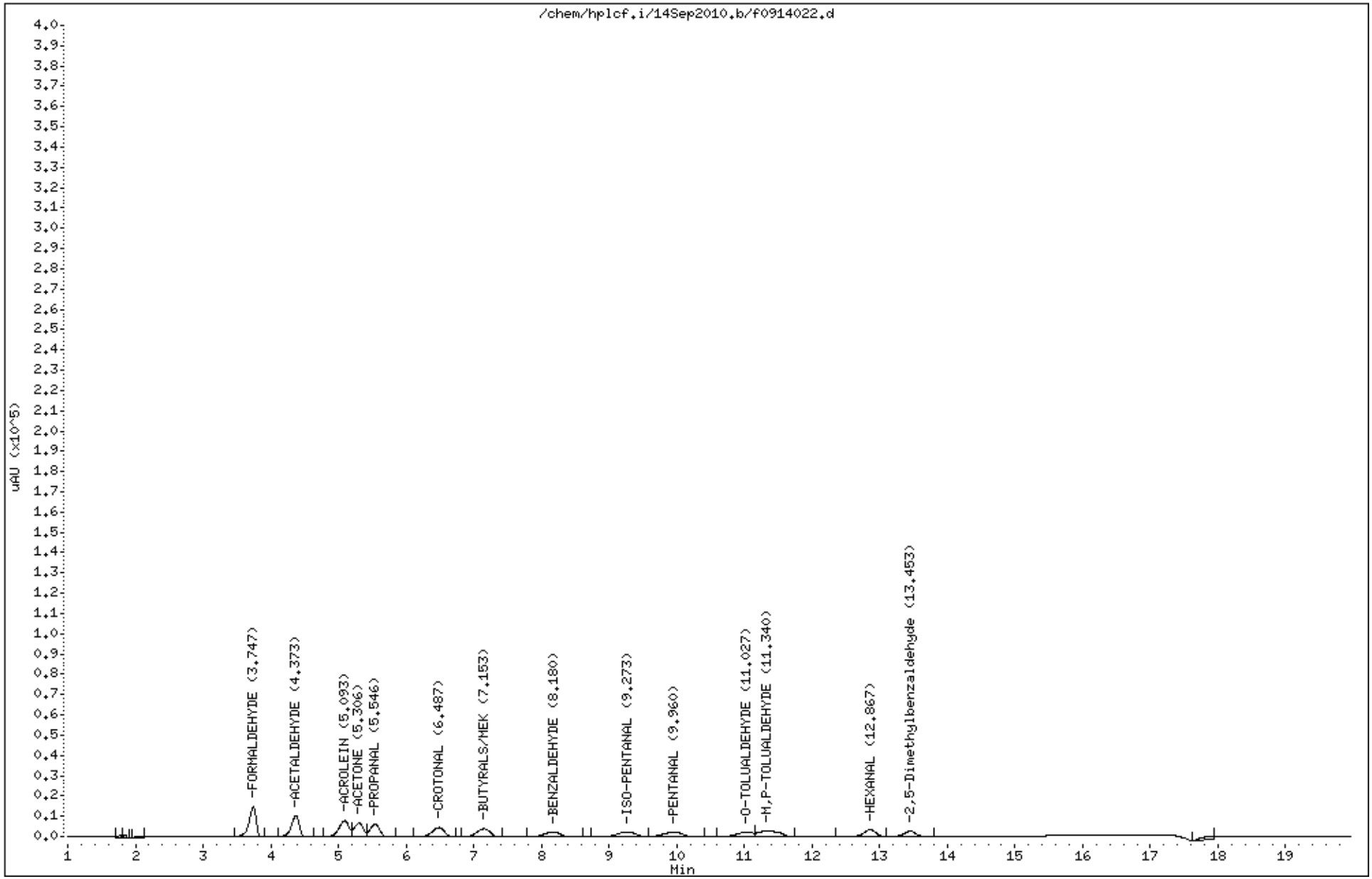
Sample Info: ;1838-34-1.0;5

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914021.d
Lab Smp Id: 1838-34-1.0 Client Smp ID: 5
Inj Date : 14-SEP-2010 20:56
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-1.0;5
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 20:56 Cal File: f0914021.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	3.740	3.740	0.000	105805	1.00000	0.990
3 ACETALDEHYDE	4.374	4.374	0.000	82817	1.00000	0.981
4 ACROLEIN	5.094	5.094	0.000	77980	1.00000	0.971
5 ACETONE	5.301	5.301	0.000	60932	1.00000	0.979
6 PROPANAL	5.547	5.547	0.000	60789	1.00000	0.975
7 CROTONAL	6.487	6.487	0.000	55018	1.00000	0.964
9 BUTYRALS/MEK	7.147	7.147	0.000	53240	1.00000	0.990
10 BENZALDEHYDE	8.161	8.161	0.000	36832	1.00000	0.967
11 ISO-PENTANAL	9.274	9.274	0.000	44231	1.00000	0.980
12 PENTANAL	9.960	9.960	0.000	43614	1.00000	0.982
14 O-TOLUALDEHYDE	11.021	11.021	0.000	35206	1.00000	0.954
15 M,P-TOLUALDEHYDE	11.334	11.334	0.000	59111	2.00000	1.90
16 HEXANAL	12.860	12.860	0.000	39766	1.00000	0.964
17 2,5-Dimethylbenzaldehyde	13.447	13.447	0.000	28909	1.00000	0.936

Data File: /chem/hplcf.i/14Sep2010.b/f0914021.d

Date : 14-SEP-2010 20:56

Client ID: 5

Instrument: hplcf.i

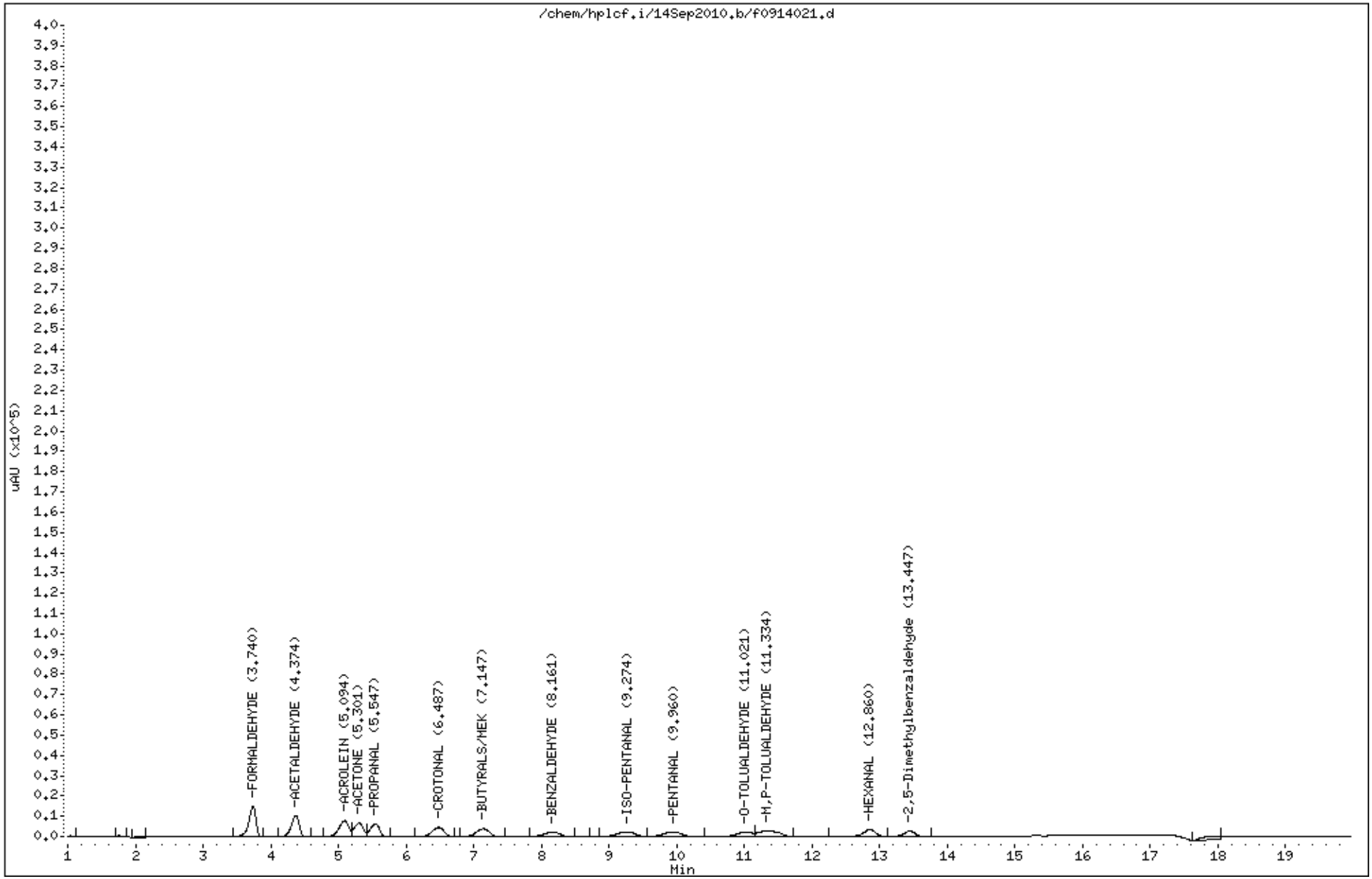
Sample Info: ;1838-34-1.0;5

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914026.d
Lab Smp Id: 1838-32-4.0 Client Smp ID: 6
Inj Date : 14-SEP-2010 22:41
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-32-4.0;6
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:29 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 22:41 Cal File: f0914026.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
2 FORMALDEHYDE	3.737	3.737	0.000	450621	4.00000	4.01
3 ACETALDEHYDE	4.371	4.371	0.000	352416	4.00000	4.00
4 ACROLEIN	5.091	5.091	0.000	335424	4.00000	4.00
5 ACETONE	5.298	5.298	0.000	258255	4.00000	4.04
6 PROPANAL	5.537	5.537	0.000	256942	4.00000	3.98
7 CROTONAL	6.478	6.478	0.000	233257	4.00000	4.00
9 BUTYRALS/MEK	7.144	7.144	0.000	222115	4.00000	3.99
10 BENZALDEHYDE	8.158	8.158	0.000	157668	4.00000	4.01
11 ISO-PENTANAL	9.258	9.258	0.000	187027	4.00000	4.00
12 PENTANAL	9.938	9.938	0.000	182923	4.00000	3.99
14 O-TOLUALDEHYDE	11.011	11.011	0.000	147236	4.00000	4.02
15 M,P-TOLUALDEHYDE	11.324	11.324	0.000	248923	8.00000	7.99
16 HEXANAL	12.851	12.851	0.000	163558	4.00000	4.01
17 2,5-Dimethylbenzaldehyde	13.444	13.444	0.000	117296	4.00000	3.99

Data File: /chem/hplcf.i/14Sep2010.b/f0914026.d

Date : 14-SEP-2010 22:41

Client ID: 6

Instrument: hplcf.i

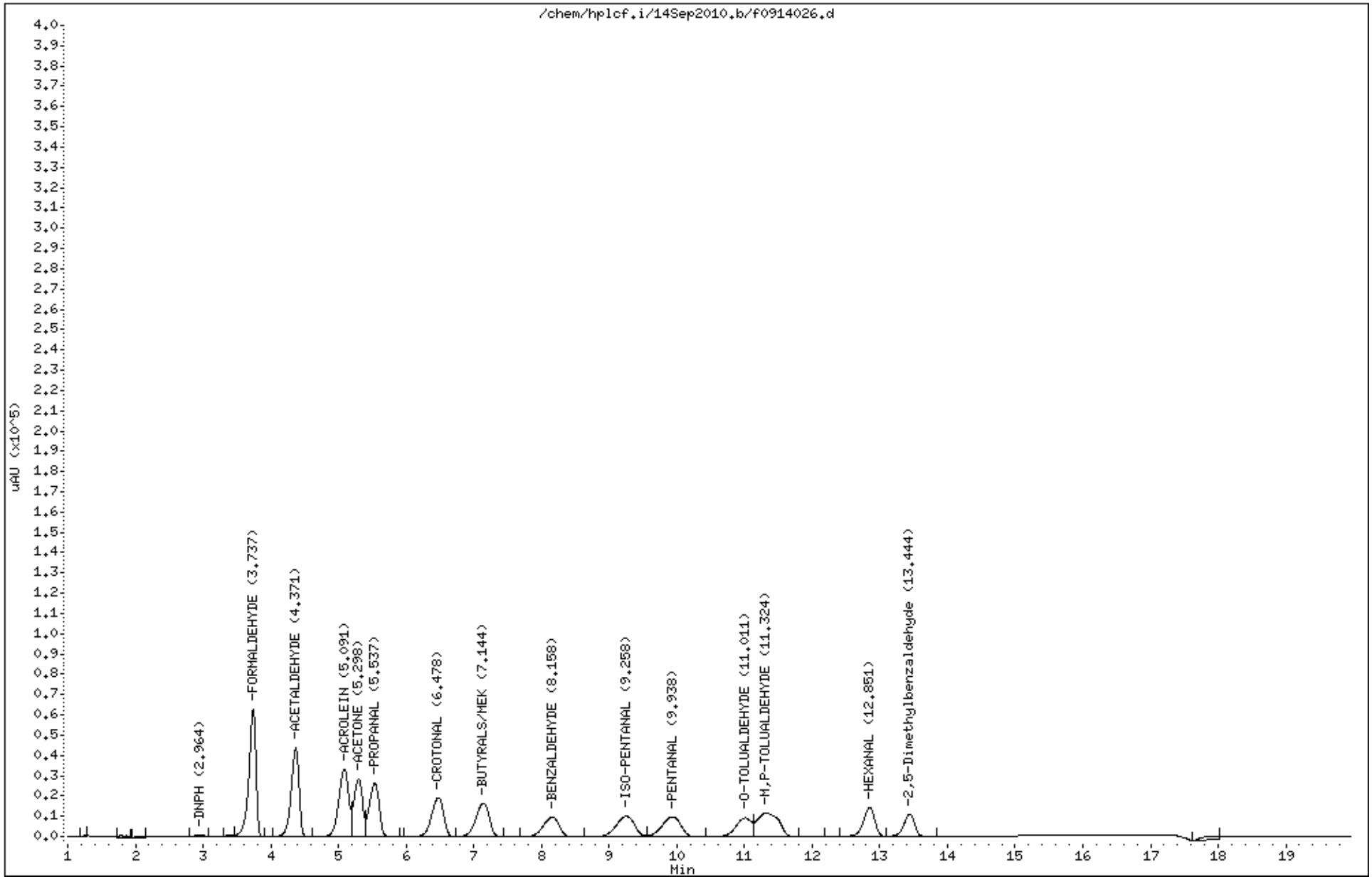
Sample Info: ;1838-32-4.0;6

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914025.d
Lab Smp Id: 1838-32-4.0 Client Smp ID: 6
Inj Date : 14-SEP-2010 22:20
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-32-4.0;6
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:29 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 22:20 Cal File: f0914025.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
2 FORMALDEHYDE	3.742	3.742	0.000	449099	4.00000	4.00
3 ACETALDEHYDE	4.375	4.375	0.000	352551	4.00000	4.01
4 ACROLEIN	5.095	5.095	0.000	334904	4.00000	4.00
5 ACETONE	5.302	5.302	0.000	254054	4.00000	4.00
6 PROPANAL	5.542	5.542	0.000	258747	4.00000	3.99
7 CROTONAL	6.482	6.482	0.000	233603	4.00000	4.01
9 BUTYRALS/MEK	7.142	7.142	0.000	223717	4.00000	4.02
10 BENZALDEHYDE	8.162	8.162	0.000	157371	4.00000	4.01
11 ISO-PENTANAL	9.262	9.262	0.000	185991	4.00000	3.98
12 PENTANAL	9.942	9.942	0.000	182460	4.00000	3.97
14 O-TOLUALDEHYDE	11.009	11.009	0.000	145838	4.00000	3.99
15 M,P-TOLUALDEHYDE	11.322	11.322	0.000	249513	8.00000	8.01
16 HEXANAL	12.849	12.849	0.000	163297	4.00000	4.00
17 2,5-Dimethylbenzaldehyde	13.442	13.442	0.000	117509	4.00000	3.99

Data File: /chem/hplcf.i/14Sep2010.b/f0914025.d

Date : 14-SEP-2010 22:20

Client ID: 6

Instrument: hplcf.i

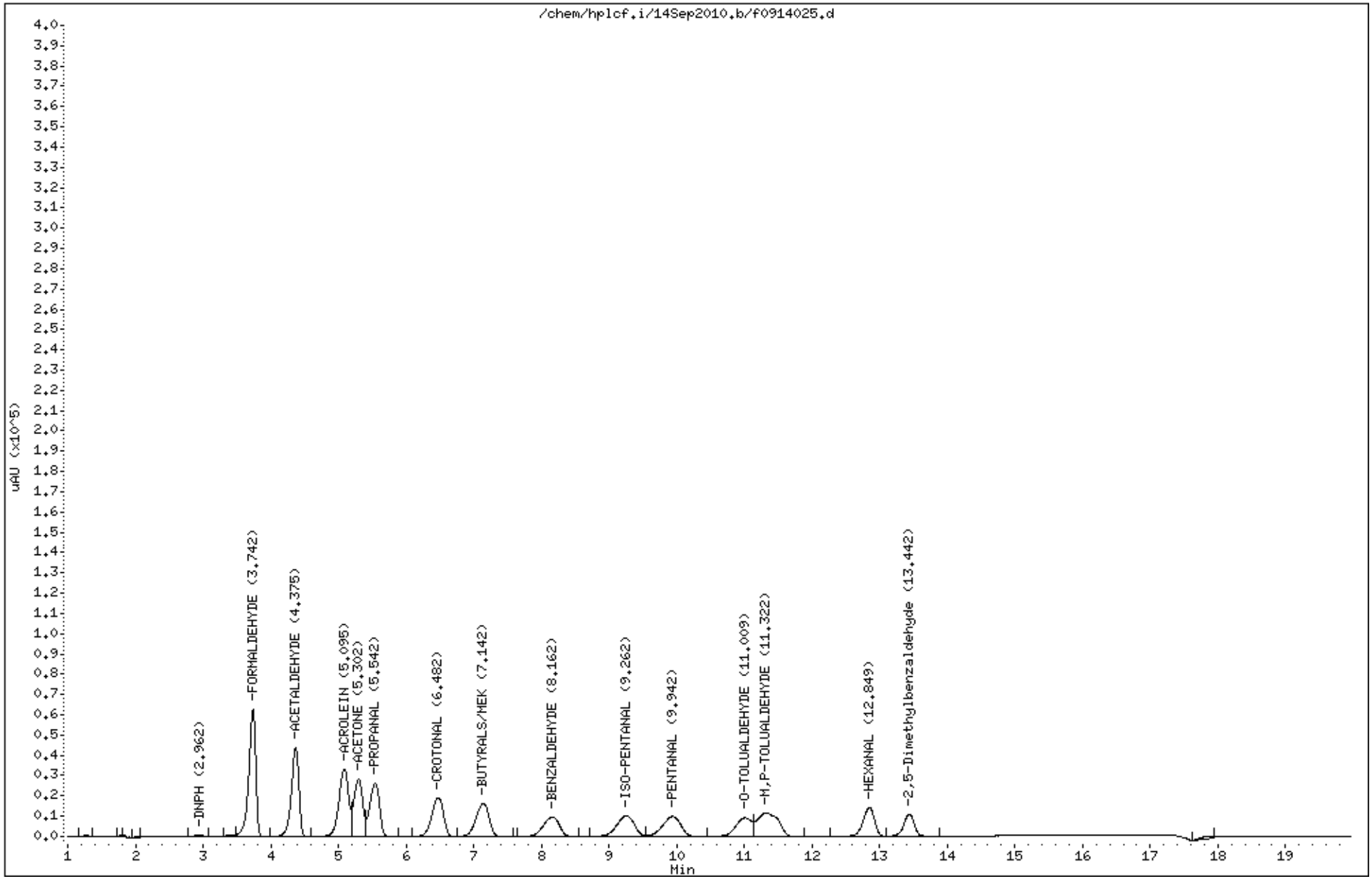
Sample Info: ;1838-32-4.0;6

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914024.d
Lab Smp Id: 1838-32-4.0 Client Smp ID: 6
Inj Date : 14-SEP-2010 21:59
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-32-4.0;6
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:29 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 21:59 Cal File: f0914024.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
2 FORMALDEHYDE	3.742	3.742	0.000	448858	4.00000	4.00
3 ACETALDEHYDE	4.375	4.375	0.000	351227	4.00000	4.00
4 ACROLEIN	5.096	5.096	0.000	334499	4.00000	4.00
5 ACETONE	5.302	5.302	0.000	254555	4.00000	4.00
6 PROPANAL	5.542	5.542	0.000	259688	4.00000	4.00
7 CROTONAL	6.482	6.482	0.000	232736	4.00000	4.00
9 BUTYRALS/MEK	7.142	7.142	0.000	221997	4.00000	4.00
10 BENZALDEHYDE	8.162	8.162	0.000	156893	4.00000	4.00
11 ISO-PENTANAL	9.269	9.269	0.000	187764	4.00000	4.00
12 PENTANAL	9.956	9.956	0.000	184847	4.00000	4.00
14 O-TOLUALDEHYDE	11.022	11.022	0.000	146742	4.00000	4.00
15 M,P-TOLUALDEHYDE	11.335	11.335	0.000	249029	8.00000	8.00
16 HEXANAL	12.855	12.855	0.000	163040	4.00000	4.00
17 2,5-Dimethylbenzaldehyde	13.449	13.449	0.000	118085	4.00000	4.00

Data File: /chem/hplcf.i/14Sep2010.b/f0914024.d

Date : 14-SEP-2010 21:59

Client ID: 6

Instrument: hplcf.i

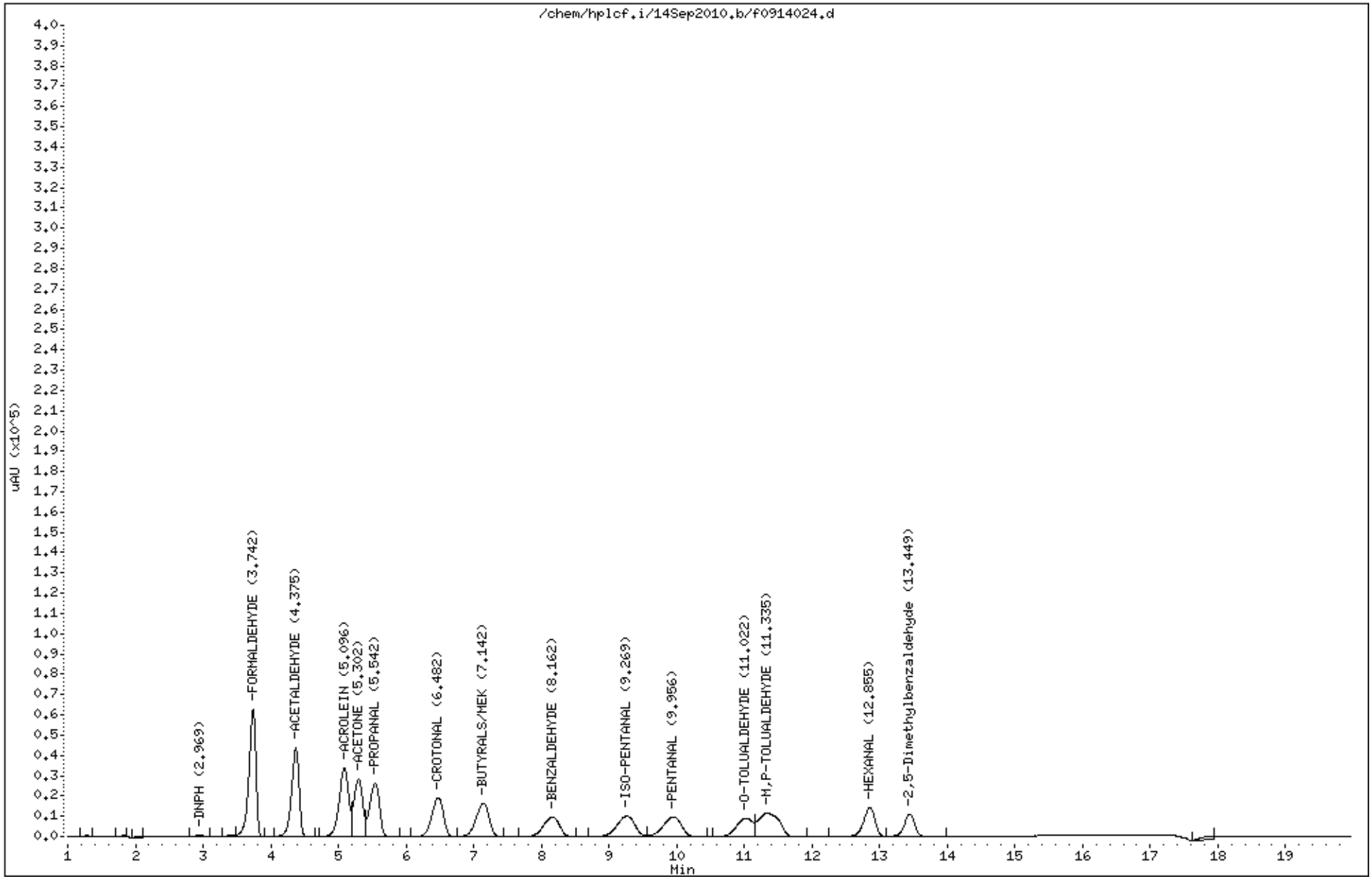
Sample Info: ;1838-32-4.0;6

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914029.d
Lab Smp Id: 1838-34-10.0 Client Smp ID: 7
Inj Date : 14-SEP-2010 23:44
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-10.0;7
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 23:44 Cal File: f0914029.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
==========	==	======	======	========	=======	=======
2 FORMALDEHYDE	3.737	3.737	0.000	1086878	10.0000	10.2
3 ACETALDEHYDE	4.370	4.370	0.000	830306	10.0000	9.88
4 ACROLEIN	5.090	5.090	0.000	787034	10.0000	9.87
5 ACETONE	5.297	5.297	0.000	598880	10.0000	9.71
6 PROPANAL	5.537	5.537	0.000	611548	10.0000	9.88
7 CROTONAL	6.477	6.477	0.000	548148	10.0000	9.72
9 BUTYRALS/MEK	7.137	7.137	0.000	524094	10.0000	9.82
10 BENZALDEHYDE	8.157	8.157	0.000	371534	10.0000	9.84
11 ISO-PENTANAL	9.250	9.250	0.000	438929	10.0000	9.82
12 PENTANAL	9.937	9.937	0.000	430061	10.0000	9.78
14 O-TOLUALDEHYDE	11.010	11.010	0.000	347525	10.0000	9.59
15 M,P-TOLUALDEHYDE	11.323	11.323	0.000	585343	20.0000	19.2
16 HEXANAL	12.850	12.850	0.000	383168	10.0000	9.49
17 2,5-Dimethylbenzaldehyde	13.443	13.443	0.000	275222	10.0000	9.20

Data File: /chem/hplcf.i/14Sep2010.b/f0914029.d

Date : 14-SEP-2010 23:44

Client ID: 7

Instrument: hplcf.i

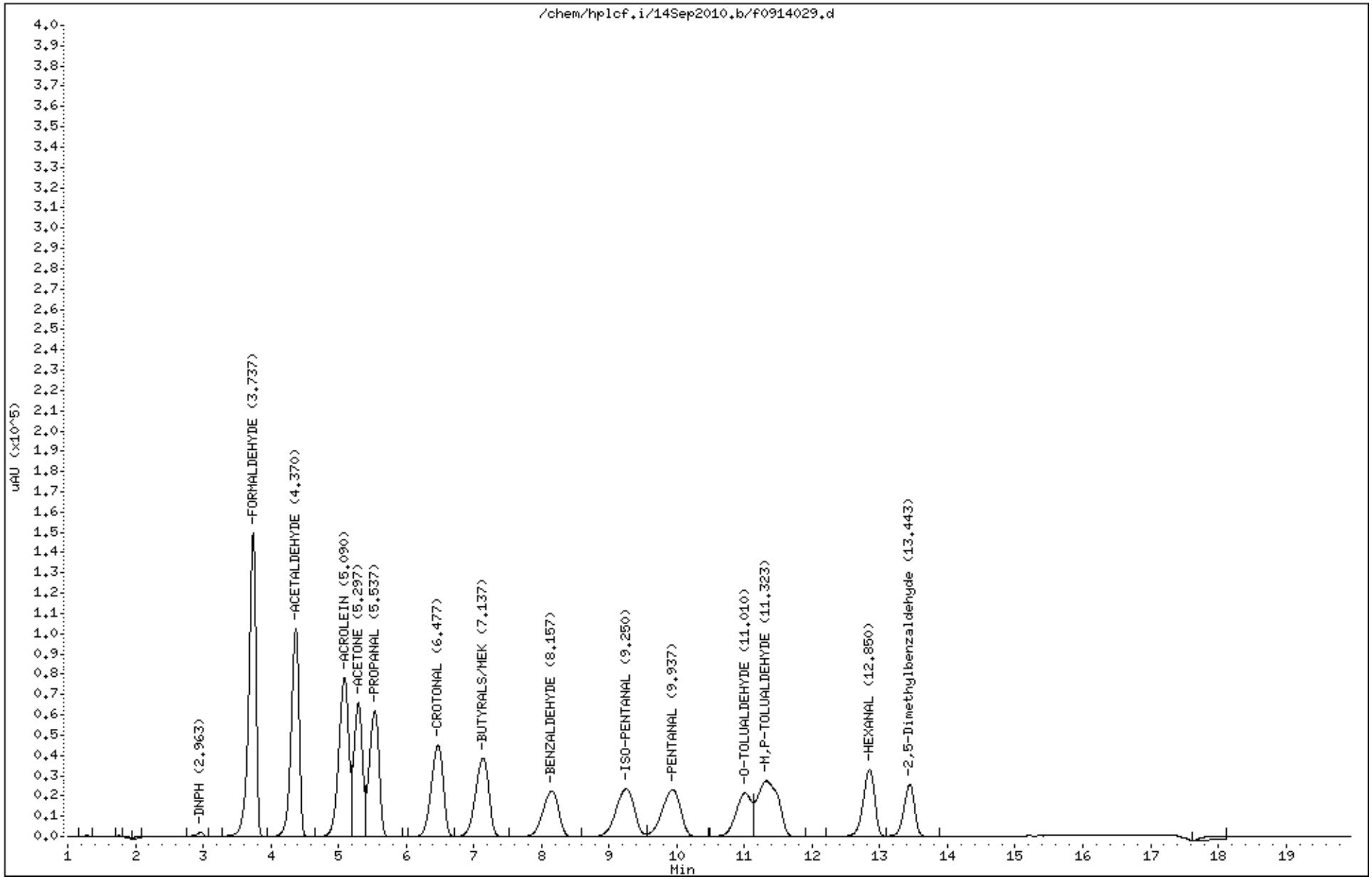
Sample Info: ;1838-34-10.0;7

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914028.d
Lab Smp Id: 1838-34-10.0 Client Smp ID: 7
Inj Date : 14-SEP-2010 23:23
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-10.0;7
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 23:23 Cal File: f0914028.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.738	3.738	0.000	1087253	10.0000	10.2
3 ACETALDEHYDE	4.372	4.372	0.000	831049	10.0000	9.88
4 ACROLEIN	5.092	5.092	0.000	792573	10.0000	9.93
5 ACETONE	5.298	5.298	0.000	597052	10.0000	9.66
6 PROPANAL	5.538	5.538	0.000	607745	10.0000	9.81
7 CROTONAL	6.478	6.478	0.000	548708	10.0000	9.71
9 BUTYRALS/MEK	7.138	7.138	0.000	524621	10.0000	9.81
10 BENZALDEHYDE	8.158	8.158	0.000	371558	10.0000	9.83
11 ISO-PENTANAL	9.258	9.258	0.000	439003	10.0000	9.81
12 PENTANAL	9.945	9.945	0.000	430505	10.0000	9.77
14 O-TOLUALDEHYDE	11.012	11.012	0.000	346558	10.0000	9.54
15 M,P-TOLUALDEHYDE	11.325	11.325	0.000	588014	20.0000	19.2
16 HEXANAL	12.852	12.852	0.000	383202	10.0000	9.46
17 2,5-Dimethylbenzaldehyde	13.445	13.445	0.000	275778	10.0000	9.16

Data File: /chem/hplcf.i/14Sep2010.b/f0914028.d

Date : 14-SEP-2010 23:23

Client ID: 7

Instrument: hplcf.i

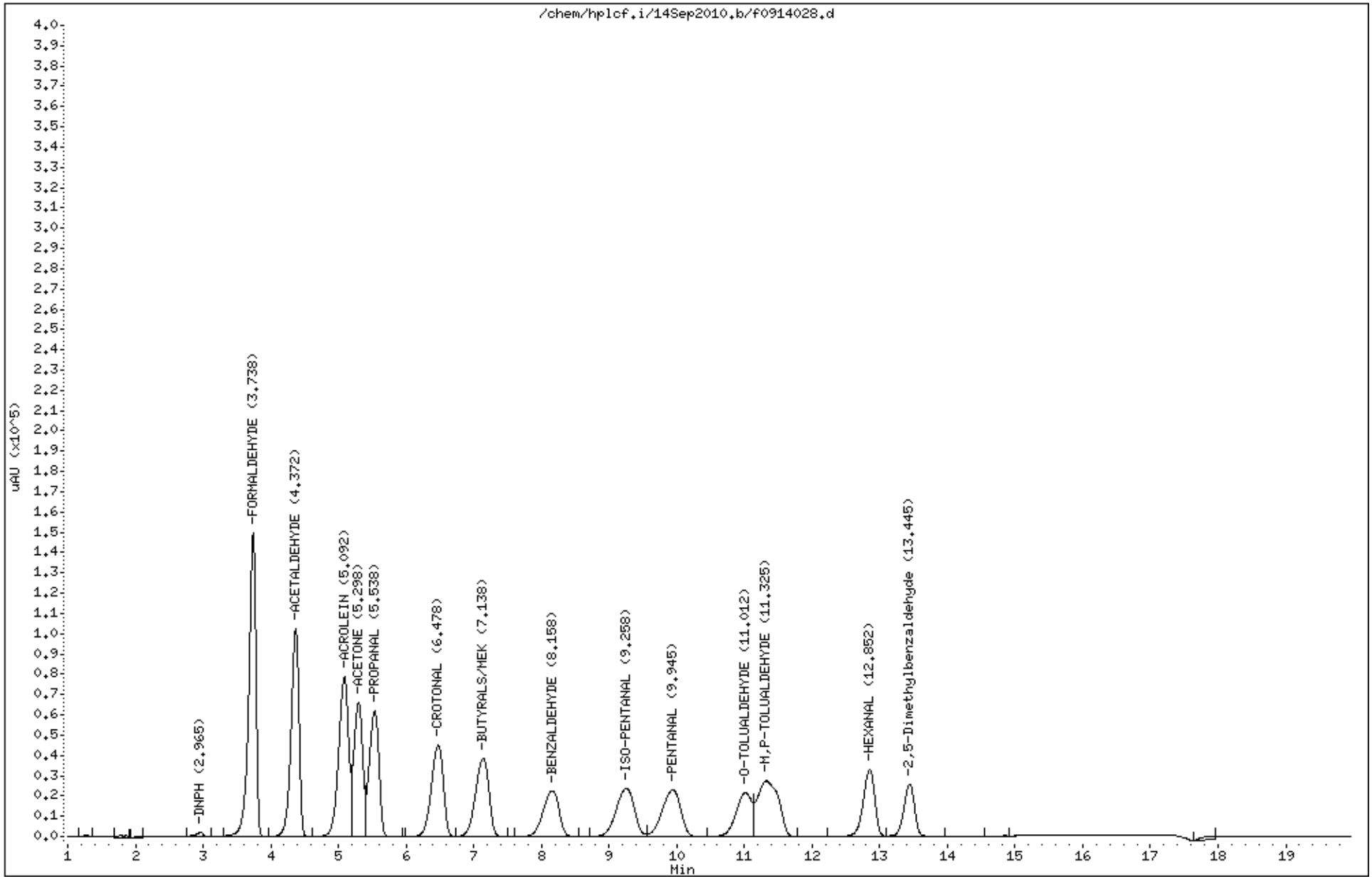
Sample Info: ;1838-34-10.0;7

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914027.d
Lab Smp Id: 1838-34-10.0 Client Smp ID: 7
Inj Date : 14-SEP-2010 23:02
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-10.0;7
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 23:02 Cal File: f0914027.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
2 FORMALDEHYDE	3.738	3.738	0.000	1086932	10.0000	10.2
3 ACETALDEHYDE	4.371	4.371	0.000	830813	10.0000	9.87
4 ACROLEIN	5.091	5.091	0.000	788842	10.0000	9.88
5 ACETONE	5.298	5.298	0.000	606307	10.0000	9.79
6 PROPANAL	5.544	5.544	0.000	602991	10.0000	9.72
7 CROTONAL	6.478	6.478	0.000	548541	10.0000	9.69
9 BUTYRALS/MEK	7.144	7.144	0.000	524696	10.0000	9.80
10 BENZALDEHYDE	8.164	8.164	0.000	371046	10.0000	9.80
11 ISO-PENTANAL	9.264	9.264	0.000	439896	10.0000	9.81
12 PENTANAL	9.944	9.944	0.000	430942	10.0000	9.76
14 O-TOLUALDEHYDE	11.018	11.018	0.000	348270	10.0000	9.55
15 M,P-TOLUALDEHYDE	11.331	11.331	0.000	585512	20.0000	19.1
16 HEXANAL	12.851	12.851	0.000	383719	10.0000	9.43
17 2,5-Dimethylbenzaldehyde	13.444	13.444	0.000	275329	10.0000	9.09

Data File: /chem/hplcf.i/14Sep2010.b/f0914027.d

Date : 14-SEP-2010 23:02

Client ID: 7

Instrument: hplcf.i

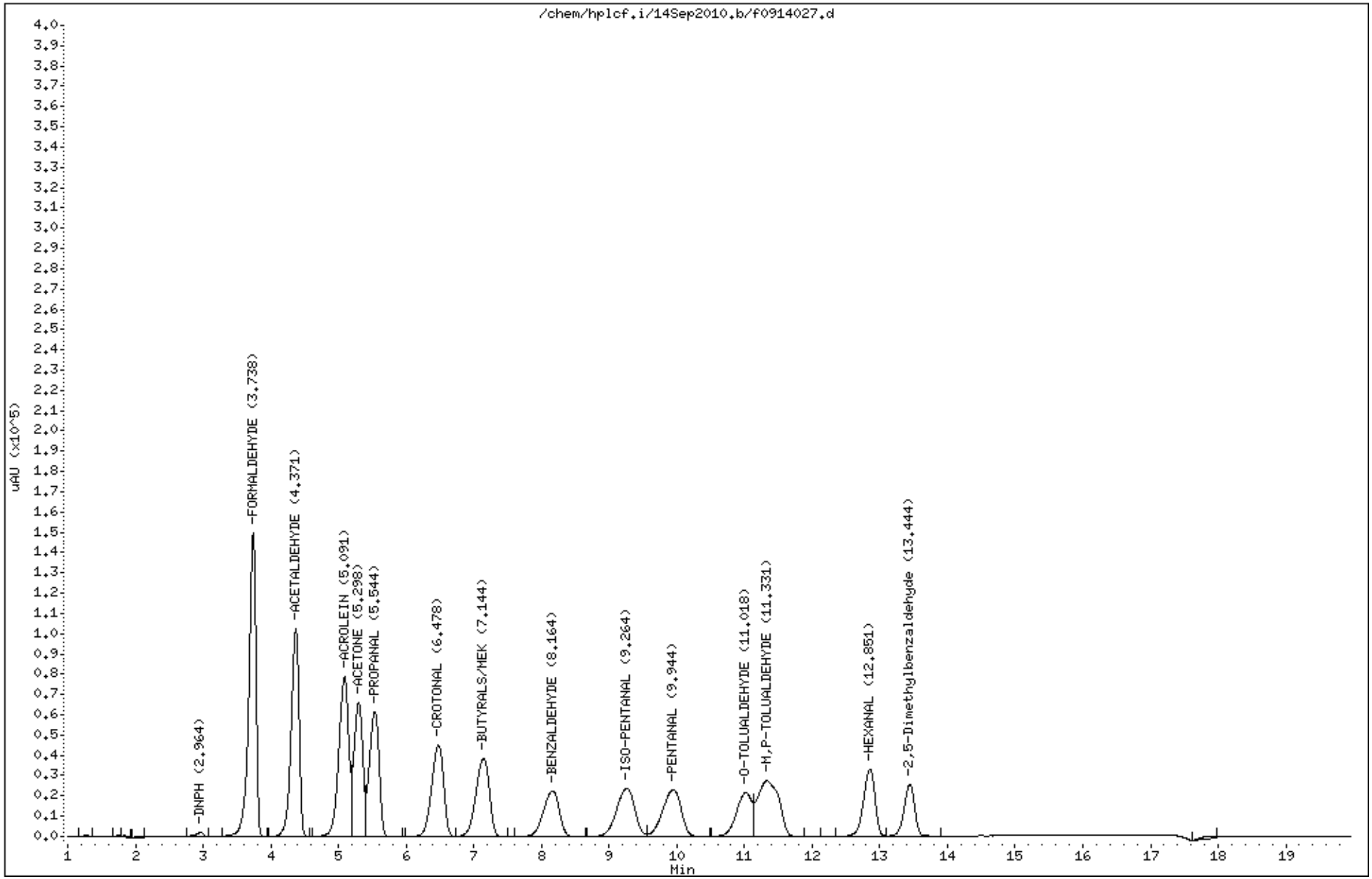
Sample Info: ;1838-34-10.0;7

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914032.d
Lab Smp Id: 1838-34-20.0 Client Smp ID: 8
Inj Date : 15-SEP-2010 00:46
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-20.0;8
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 00:46 Cal File: f0914032.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.744	3.744	0.000	2254108	20.0000	20.9
3 ACETALDEHYDE	4.371	4.371	0.000	1715969	20.0000	20.4
4 ACROLEIN	5.091	5.091	0.000	1648845	20.0000	20.6
5 ACETONE	5.297	5.297	0.000	1232915	20.0000	20.0
6 PROPANAL	5.544	5.544	0.000	1256858	20.0000	20.3
7 CROTONAL	6.484	6.484	0.000	1134806	20.0000	20.1
9 BUTYRALS/MEK	7.151	7.151	0.000	1085507	20.0000	20.3
10 BENZALDEHYDE	8.171	8.171	0.000	766541	20.0000	20.2
11 ISO-PENTANAL	9.271	9.271	0.000	915740	20.0000	20.4
12 PENTANAL	9.957	9.957	0.000	898851	20.0000	20.4
14 O-TOLUALDEHYDE	11.024	11.024	0.000	718581	20.0000	19.8
15 M,P-TOLUALDEHYDE	11.337	11.337	0.000	1214005	40.0000	39.9
16 HEXANAL	12.864	12.864	0.000	789706	20.0000	19.6
17 2,5-Dimethylbenzaldehyde	13.457	13.457	0.000	565128	20.0000	19.1

Data File: /chem/hplcf.i/14Sep2010.b/f0914032.d

Date : 15-SEP-2010 00:46

Client ID: 8

Instrument: hplcf.i

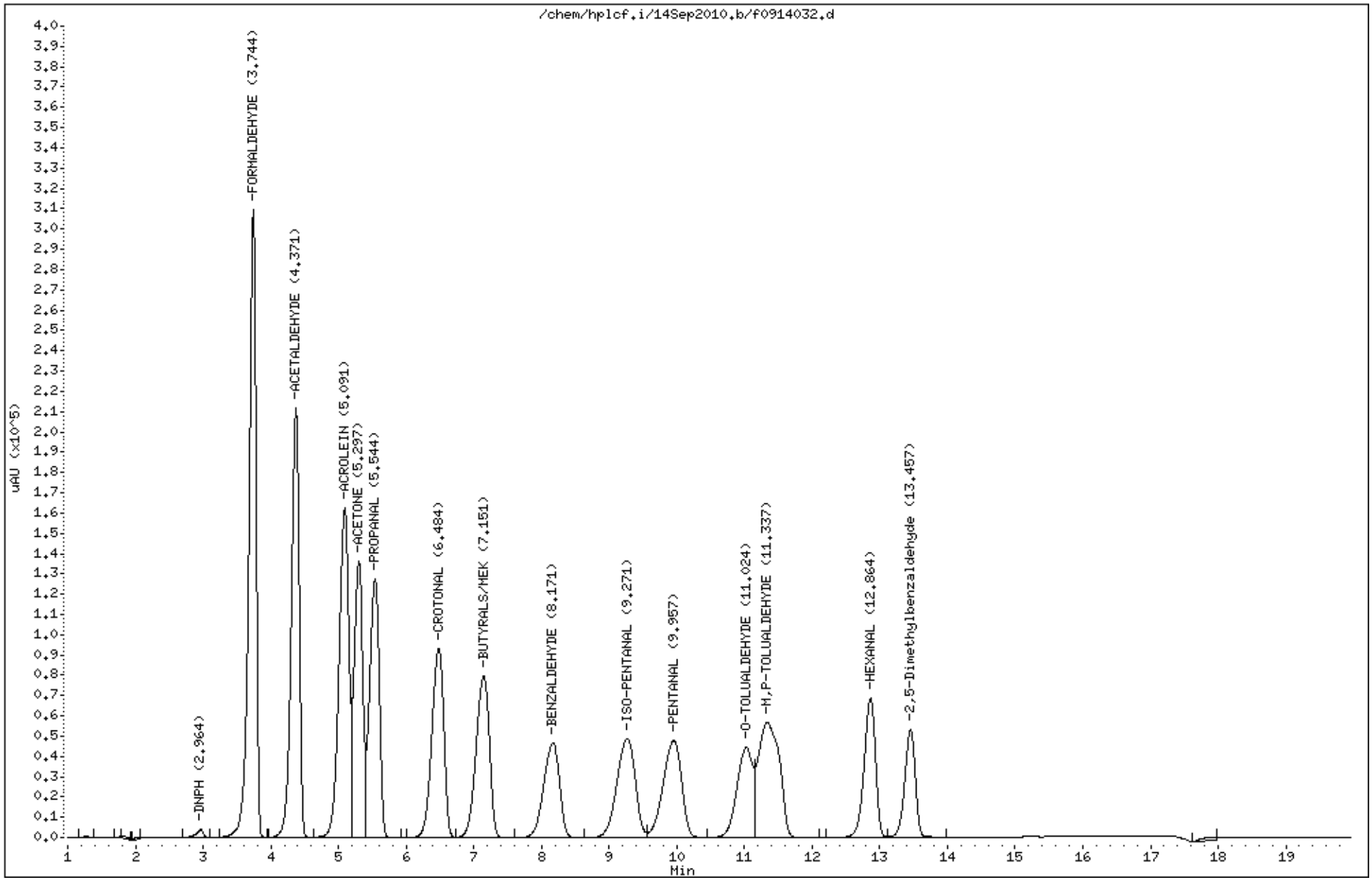
Sample Info: ;1838-34-20.0;8

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914031.d
Lab Smp Id: 1838-34-20.0 Client Smp ID: 8
Inj Date : 15-SEP-2010 00:25
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-20.0;8
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 00:25 Cal File: f0914031.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.737	3.737	0.000	2253426	20.0000	21.0
3 ACETALDEHYDE	4.370	4.370	0.000	1715704	20.0000	20.4
4 ACROLEIN	5.090	5.090	0.000	1623561	20.0000	20.3
5 ACETONE	5.297	5.297	0.000	1258750	20.0000	20.4
6 PROPANAL	5.544	5.544	0.000	1256634	20.0000	20.3
7 CROTONAL	6.484	6.484	0.000	1135155	20.0000	20.1
9 BUTYRALS/MEK	7.144	7.144	0.000	1084977	20.0000	20.3
10 BENZALDEHYDE	8.164	8.164	0.000	766094	20.0000	20.2
11 ISO-PENTANAL	9.257	9.257	0.000	914971	20.0000	20.4
12 PENTANAL	9.944	9.944	0.000	899656	20.0000	20.4
14 O-TOLUALDEHYDE	11.017	11.017	0.000	725384	20.0000	20.0
15 M,P-TOLUALDEHYDE	11.324	11.324	0.000	1206012	40.0000	39.6
16 HEXANAL	12.850	12.850	0.000	789496	20.0000	19.6
17 2,5-Dimethylbenzaldehyde	13.444	13.444	0.000	564585	20.0000	19.0

Data File: /chem/hplcf.i/14Sep2010.b/f0914031.d

Date : 15-SEP-2010 00:25

Client ID: 8

Instrument: hplcf.i

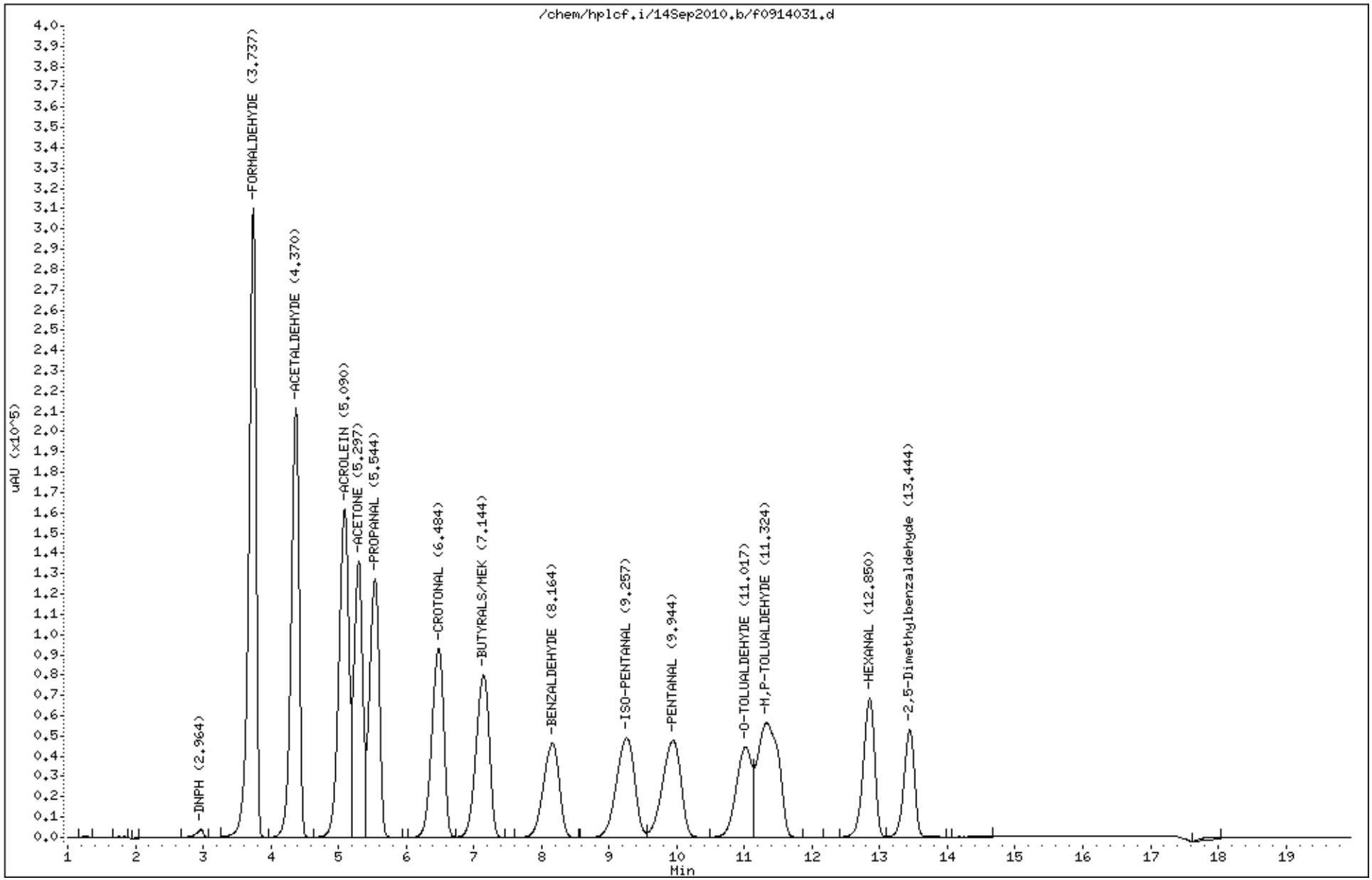
Sample Info: ;1838-34-20.0;8

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914030.d
Lab Smp Id: 1838-34-20.0 Client Smp ID: 8
Inj Date : 15-SEP-2010 00:04
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-20.0;8
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 00:04 Cal File: f0914030.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.740	3.740	0.000	2254897	20.0000	21.0
3 ACETALDEHYDE	4.367	4.367	0.000	1716022	20.0000	20.4
4 ACROLEIN	5.087	5.087	0.000	1624451	20.0000	20.3
5 ACETONE	5.294	5.294	0.000	1258629	20.0000	20.4
6 PROPANAL	5.540	5.540	0.000	1254219	20.0000	20.2
7 CROTONAL	6.481	6.481	0.000	1134607	20.0000	20.1
9 BUTYRALS/MEK	7.141	7.141	0.000	1085317	20.0000	20.3
10 BENZALDEHYDE	8.161	8.161	0.000	766359	20.0000	20.3
11 ISO-PENTANAL	9.254	9.254	0.000	915854	20.0000	20.4
12 PENTANAL	9.941	9.941	0.000	899974	20.0000	20.4
14 O-TOLUALDEHYDE	11.014	11.014	0.000	724371	20.0000	20.0
15 M,P-TOLUALDEHYDE	11.327	11.327	0.000	1208247	40.0000	39.6
16 HEXANAL	12.854	12.854	0.000	790179	20.0000	19.6
17 2,5-Dimethylbenzaldehyde	13.447	13.447	0.000	564439	20.0000	18.9

Data File: /chem/hplcf.i/14Sep2010.b/f0914030.d

Date : 15-SEP-2010 00:04

Client ID: 8

Instrument: hplcf.i

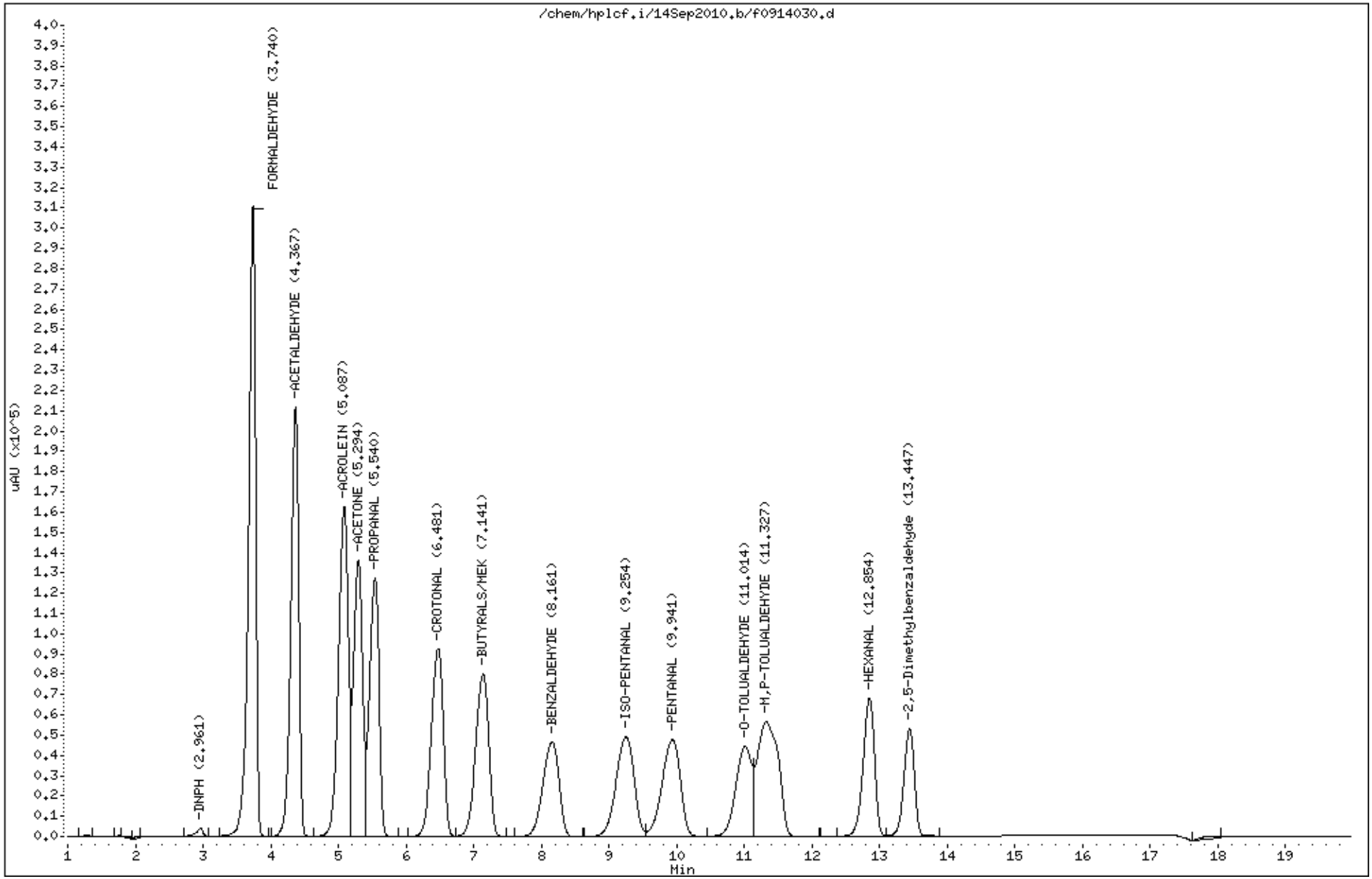
Sample Info: ;1838-34-20.0;8

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914035.d
Lab Smp Id: 1838-34-50.0 Client Smp ID: 9
Inj Date : 15-SEP-2010 01:49
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-50.0;9
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 01:49 Cal File: f0914035.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(UG)	(UG)
2 FORMALDEHYDE	3.744	3.744	0.000	5735655	50.0000	52.9
3 ACETALDEHYDE	4.378	4.378	0.000	4320919	50.0000	51.1
4 ACROLEIN	5.104	5.104	0.000	4122815	50.0000	51.3
5 ACETONE	5.311	5.311	0.000	3151407	50.0000	50.9
6 PROPANAL	5.558	5.558	0.000	3149158	50.0000	50.6
7 CROTONAL	6.498	6.498	0.000	2859994	50.0000	50.6
9 BUTYRALS/MEK	7.171	7.171	0.000	2736122	50.0000	51.0
10 BENZALDEHYDE	8.191	8.191	0.000	1932493	50.0000	50.9
11 ISO-PENTANAL	9.298	9.298	0.000	2308391	50.0000	51.2
12 PENTANAL	9.984	9.984	0.000	2269288	50.0000	51.2
14 O-TOLUALDEHYDE	11.058	11.058	0.000	1813745	50.0000	50.0
15 M,P-TOLUALDEHYDE	11.364	11.364	0.000	3063405	100.000	100
16 HEXANAL	12.878	12.878	0.000	1989961	50.0000	49.6
17 2,5-Dimethylbenzaldehyde	13.478	13.478	0.000	1422785	50.0000	48.3

Data File: /chem/hplcf.i/14Sep2010.b/f0914035.d

Date : 15-SEP-2010 01:49

Client ID: 9

Instrument: hplcf.i

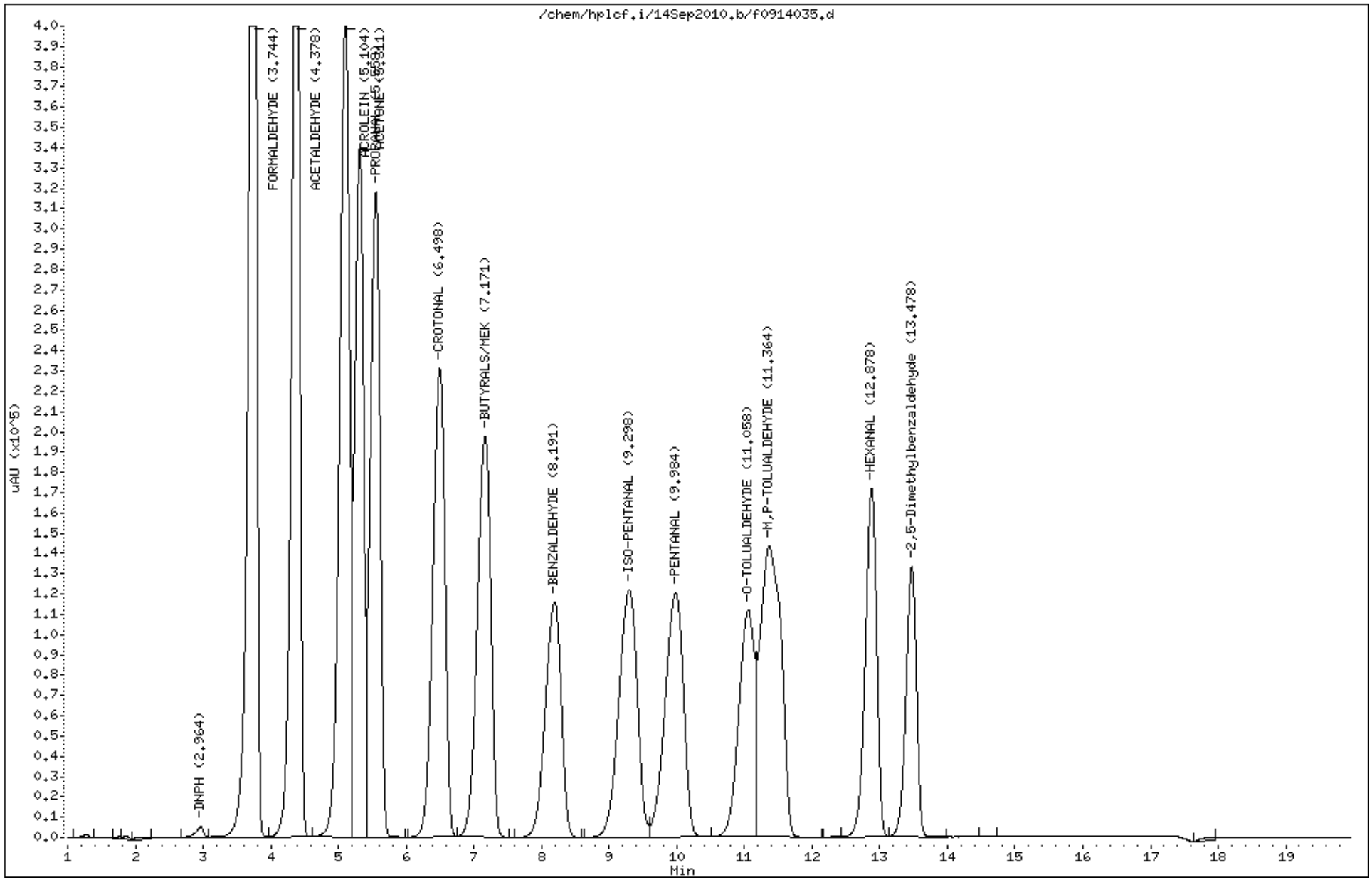
Sample Info: ;1838-34-50.0;9

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914034.d
Lab Smp Id: 1838-34-50.0 Client Smp ID: 9
Inj Date : 15-SEP-2010 01:28
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-50.0;9
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 01:28 Cal File: f0914034.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.741	3.741	0.000	5712516	50.0000	52.8
3 ACETALDEHYDE	4.375	4.375	0.000	4302015	50.0000	50.9
4 ACROLEIN	5.101	5.101	0.000	4126536	50.0000	51.4
5 ACETONE	5.308	5.308	0.000	3139620	50.0000	50.8
6 PROPANAL	5.555	5.555	0.000	3117295	50.0000	50.2
7 CROTONAL	6.495	6.495	0.000	2849453	50.0000	50.4
9 BUTYRALS/MEK	7.168	7.168	0.000	2731639	50.0000	50.9
10 BENZALDEHYDE	8.195	8.195	0.000	1923200	50.0000	50.7
11 ISO-PENTANAL	9.301	9.301	0.000	2299225	50.0000	51.1
12 PENTANAL	9.995	9.995	0.000	2257589	50.0000	51.0
14 O-TOLUALDEHYDE	11.075	11.075	0.000	1841301	50.0000	50.8
15 M,P-TOLUALDEHYDE	11.381	11.381	0.000	3009648	100.000	98.8
16 HEXANAL	12.888	12.888	0.000	1981435	50.0000	49.3
17 2,5-Dimethylbenzaldehyde	13.481	13.481	0.000	1415893	50.0000	48.0

Data File: /chem/hplcf.i/14Sep2010.b/f0914034.d

Date : 15-SEP-2010 01:28

Client ID: 9

Instrument: hplcf.i

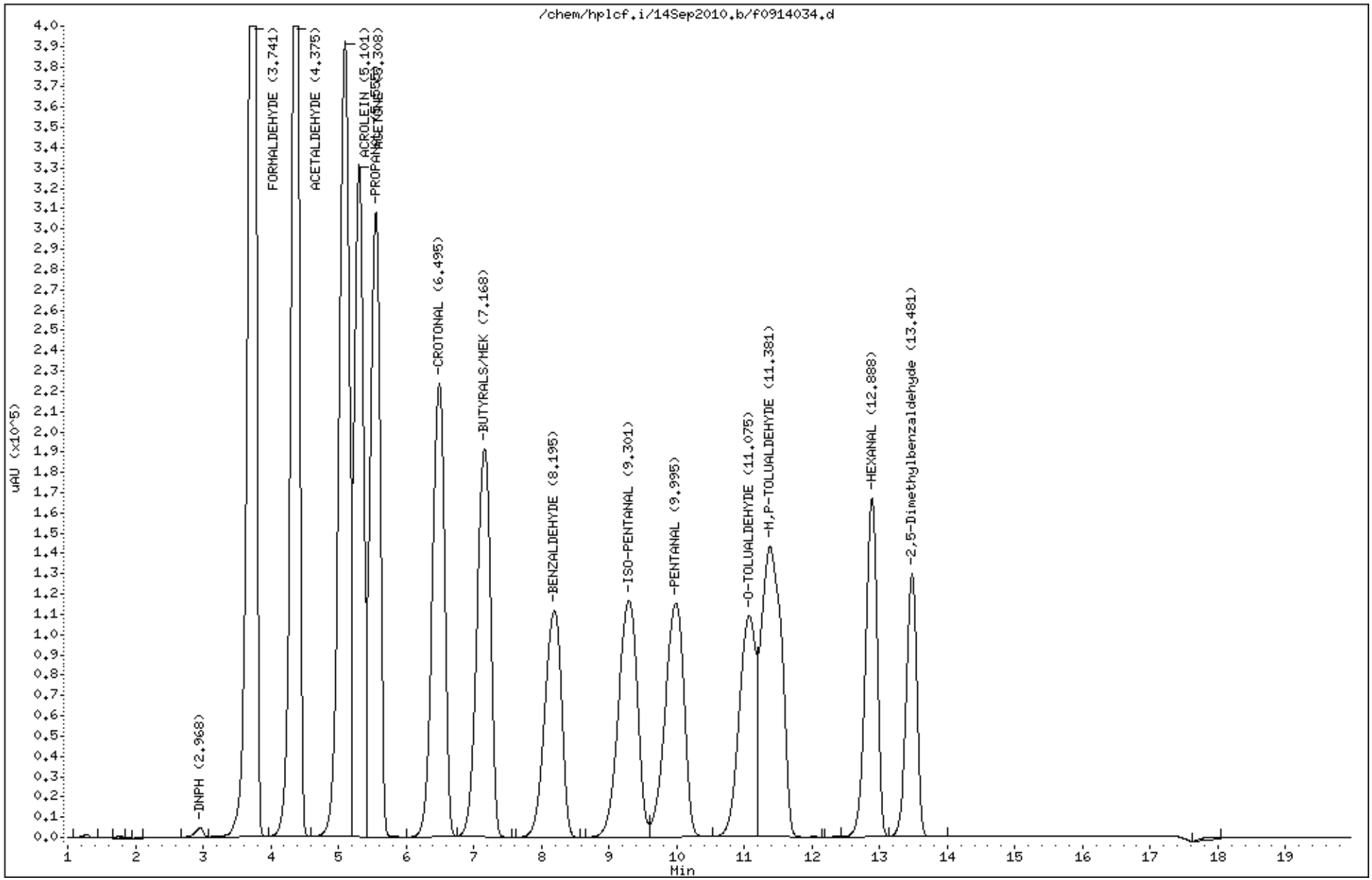
Sample Info: ;1838-34-50.0;9

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914033.d
Lab Smp Id: 1838-34-50.0 Client Smp ID: 9
Inj Date : 15-SEP-2010 01:07
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-50.0;9
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 01:07 Cal File: f0914033.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.746	3.746	0.000	5728855	50.0000	53.0
3 ACETALDEHYDE	4.379	4.379	0.000	4315096	50.0000	51.1
4 ACROLEIN	5.106	5.106	0.000	4140018	50.0000	51.6
5 ACETONE	5.312	5.312	0.000	3097047	50.0000	50.1
6 PROPANAL	5.553	5.553	0.000	3180515	50.0000	51.2
7 CROTONAL	6.499	6.499	0.000	2858190	50.0000	50.6
9 BUTYRALS/MEK	7.166	7.166	0.000	2734583	50.0000	51.0
10 BENZALDEHYDE	8.193	8.193	0.000	1931644	50.0000	51.0
11 ISO-PENTANAL	9.293	9.293	0.000	2306912	50.0000	51.3
12 PENTANAL	9.986	9.986	0.000	2269239	50.0000	51.3
14 O-TOLUALDEHYDE	11.053	11.053	0.000	1798798	50.0000	49.7
15 M,P-TOLUALDEHYDE	11.359	11.359	0.000	3071841	100.000	101
16 HEXANAL	12.879	12.879	0.000	1987958	50.0000	49.4
17 2,5-Dimethylbenzaldehyde	13.473	13.473	0.000	1421423	50.0000	48.0

Data File: /chem/hplcf.i/14Sep2010.b/f0914033.d

Date : 15-SEP-2010 01:07

Client ID: 9

Instrument: hplcf.i

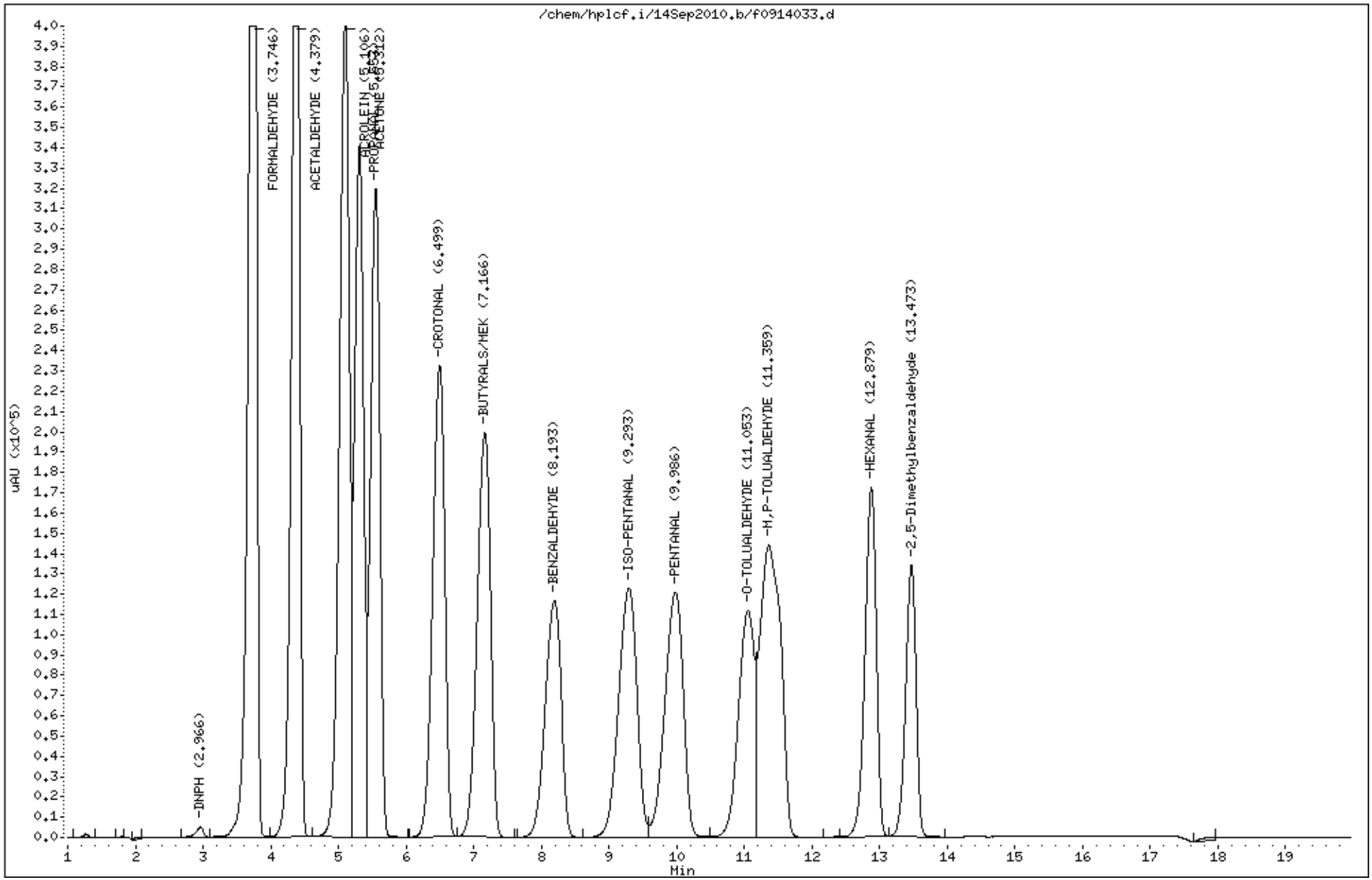
Sample Info: ;1838-34-50.0;9

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914038.d
Lab Smp Id: 1838-34-75.0 Client Smp ID: 10
Inj Date : 15-SEP-2010 02:52
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-75.0;10
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 02:52 Cal File: f0914038.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.740	3.740	0.000	8877830	75.0000	81.1(A)
3 ACETALDEHYDE	4.373	4.373	0.000	6766583	75.0000	79.4(A)
4 ACROLEIN	5.093	5.093	0.000	6437988	75.0000	79.4(A)
5 ACETONE	5.300	5.300	0.000	4958940	75.0000	79.6(A)
6 PROPANAL	5.546	5.546	0.000	4945549	75.0000	78.9(A)
7 CROTONAL	6.480	6.480	0.000	4483386	75.0000	78.7(A)
9 BUTYRALS/MEK	7.146	7.146	0.000	4290345	75.0000	79.2(A)
10 BENZALDEHYDE	8.166	8.166	0.000	3033347	75.0000	79.3(A)
11 ISO-PENTANAL	9.260	9.260	0.000	3618335	75.0000	79.6(A)
12 PENTANAL	9.946	9.946	0.000	3558158	75.0000	79.6(A)
14 O-TOLUALDEHYDE	11.026	11.026	0.000	2834077	75.0000	77.7(A)
15 M,P-TOLUALDEHYDE	11.333	11.333	0.000	4808540	150.000	157(A)
16 HEXANAL	12.853	12.853	0.000	3118236	75.0000	77.3(A)
17 2,5-Dimethylbenzaldehyde	13.453	13.453	0.000	2231351	75.0000	75.6(A)

QC Flag Legend

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

Data File: /chem/hplcf.i/14Sep2010.b/f0914038.d

Date : 15-SEP-2010 02:52

Client ID: 10

Instrument: hplcf.i

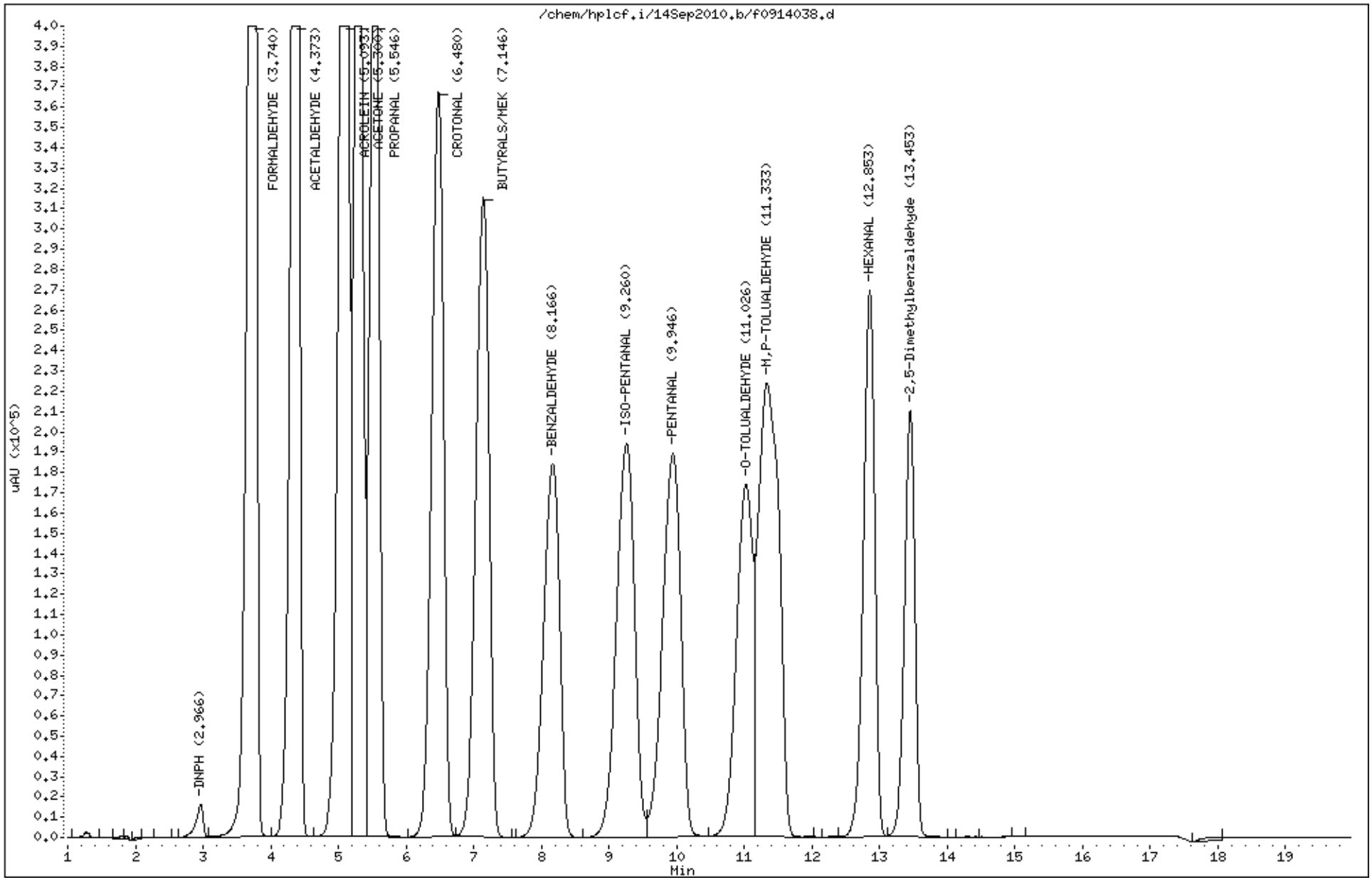
Sample Info: ;1838-34-75.0;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914037.d
Lab Smp Id: 1838-34-75.0 Client Smp ID: 10
Inj Date : 15-SEP-2010 02:31
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-75.0;10
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 02:31 Cal File: f0914037.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.743	3.743	0.000	8874471	75.0000	81.3(A)
3 ACETALDEHYDE	4.376	4.376	0.000	6764082	75.0000	79.6(A)
4 ACROLEIN	5.103	5.103	0.000	6468876	75.0000	79.9(A)
5 ACETONE	5.310	5.310	0.000	4877086	75.0000	78.5(A)
6 PROPANAL	5.550	5.550	0.000	4992133	75.0000	79.8(A)
7 CROTONAL	6.496	6.496	0.000	4481980	75.0000	78.9(A)
9 BUTYRALS/MEK	7.163	7.163	0.000	4289038	75.0000	79.4(A)
10 BENZALDEHYDE	8.183	8.183	0.000	3028322	75.0000	79.4(A)
11 ISO-PENTANAL	9.283	9.283	0.000	3619020	75.0000	79.8(A)
12 PENTANAL	9.970	9.970	0.000	3557001	75.0000	79.8(A)
14 O-TOLUALDEHYDE	11.043	11.043	0.000	2868309	75.0000	78.8(A)
15 M,P-TOLUALDEHYDE	11.356	11.356	0.000	4770723	150.000	156(A)
16 HEXANAL	12.870	12.870	0.000	3117337	75.0000	77.4(A)
17 2,5-Dimethylbenzaldehyde	13.470	13.470	0.000	2229525	75.0000	75.6(A)

QC Flag Legend

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

Data File: /chem/hplcf.i/14Sep2010.b/f0914037.d

Date : 15-SEP-2010 02:31

Client ID: 10

Instrument: hplcf.i

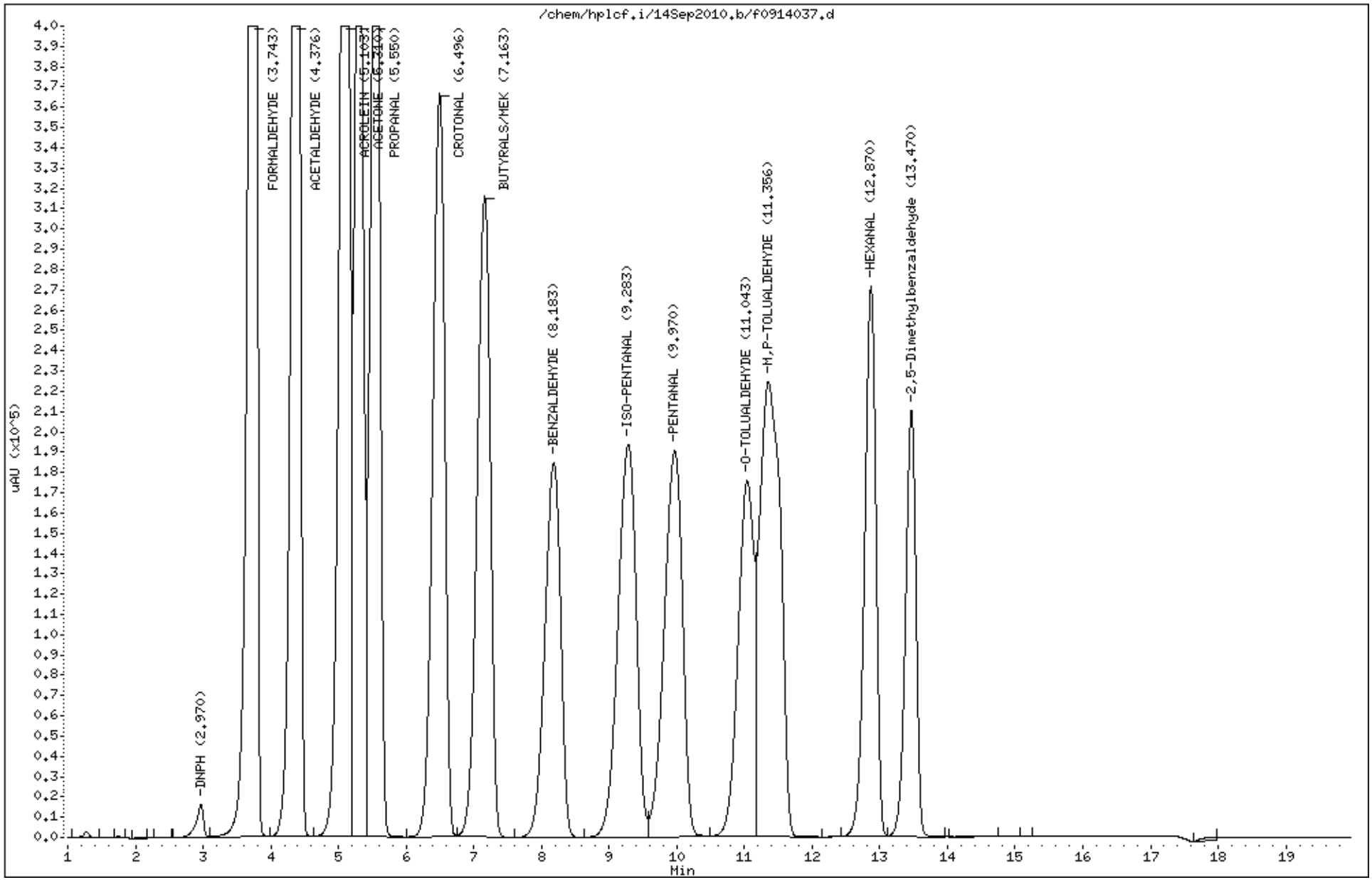
Sample Info: ;1838-34-75.0;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/14Sep2010.b/f0914036.d
Lab Smp Id: 1838-34-75.0 Client Smp ID: 10
Inj Date : 15-SEP-2010 02:10
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-34-75.0;10
Misc Info :
Comment :
Method : /chem/hplcf.i/14Sep2010.b/F10D0914.m
Meth Date : 15-Sep-2010 09:40 cleaf Quant Type: ESTD
Cal Date : 15-SEP-2010 02:10 Cal File: f0914036.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable
Vs 5.00000 Sample Final Volume (mL)
Vo 5.00000 Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (UG)
2 FORMALDEHYDE	3.758	3.758	0.000	8872541	75.0000	81.5(A)
3 ACETALDEHYDE	4.391	4.391	0.000	6752657	75.0000	79.7(A)
4 ACROLEIN	5.125	5.125	0.000	6480467	75.0000	80.3(A)
5 ACETONE	5.332	5.332	0.000	4840692	75.0000	78.0(A)
6 PROPANAL	5.578	5.578	0.000	4977690	75.0000	79.8(A)
7 CROTONAL	6.525	6.525	0.000	4481850	75.0000	79.1(A)
9 BUTYRALS/MEK	7.198	7.198	0.000	4287442	75.0000	79.6(A)
10 BENZALDEHYDE	8.238	8.238	0.000	3023220	75.0000	79.4(A)
11 ISO-PENTANAL	9.345	9.345	0.000	3616516	75.0000	80.0(A)
12 PENTANAL	10.038	10.038	0.000	3551905	75.0000	79.9(A)
14 O-TOLUALDEHYDE	11.098	11.098	0.000	2865895	75.0000	78.9(A)
15 M,P-TOLUALDEHYDE	11.405	11.405	0.000	4759434	150.000	156(A)
16 HEXANAL	12.912	12.912	0.000	3113906	75.0000	77.4(A)
17 2,5-Dimethylbenzaldehyde	13.505	13.505	0.000	2224010	75.0000	75.4(A)

QC Flag Legend

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

Data File: /chem/hplcf.i/14Sep2010.b/f0914036.d

Date : 15-SEP-2010 02:10

Client ID: 10

Instrument: hplcf.i

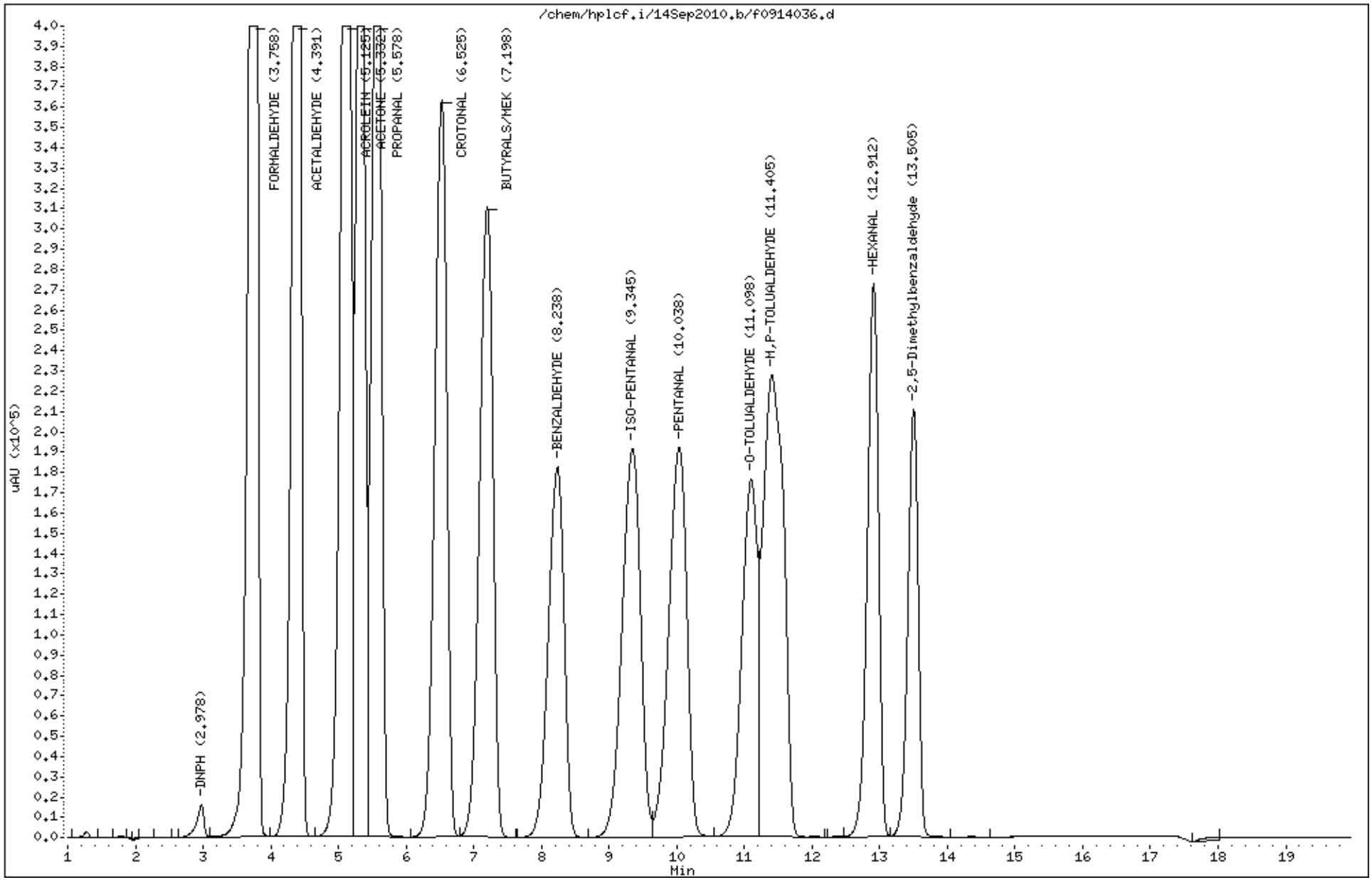
Sample Info: ;1838-34-75.0;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Report Date: 23-Nov-2010 09:21

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplcf.i Injection Date: 23-NOV-2010 08:01
Lab File ID: f1123002.d Init. Cal. Date(s): 14-SEP-2010 15-SEP-2010
Analysis Type: AIR Init. Cal. Times: 16:46 02:52
Lab Sample ID: 1838-41-10 Quant Type: ESTD
Method: /chem/hplcf.i/23Nov2010.b/F10D0914.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
1 DNPH	++++	526	0.100	++++	10.00000	Averaged <-
2 FORMALDEHYDE	109474	113650	0.010	-3.81400	10.00000	Averaged
3 ACETALDEHYDE	85159	85114	0.010	0.05226	10.00000	Averaged
4 ACROLEIN	81132	86449	0.010	-6.55451	10.00000	Averaged
5 ACETONE	62324	61577	0.010	1.19905	10.00000	Averaged
6 PROPANAL	62684	56890	0.010	9.24348	10.00000	Averaged
7 CROTONAL	56944	55890	0.010	1.85035	10.00000	Averaged
9 BUTYRALS/MEK	54133	52013	0.010	3.91657	10.00000	Averaged
10 BENZALDEHYDE	38259	37230	0.010	2.68884	10.00000	Averaged
11 ISO-PENTANAL	45456	45909	0.010	-0.99648	10.00000	Averaged
12 PENTANAL	44700	42942	0.010	3.93313	10.00000	Averaged
14 O-TOLUALDEHYDE	36466	36574	0.010	-0.29634	10.00000	Averaged
15 M,P-TOLUALDEHYDE	30634	28921	0.010	5.59255	10.00000	Averaged
16 HEXANAL	40334	39534	0.010	1.98448	10.00000	Averaged
17 2,5-Dimethylbenzaldehyde	29495	28228	0.010	4.29589	10.00000	Averaged

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123002.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 23-NOV-2010 08:01
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 09:21 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
2 FORMALDEHYDE	3.598	3.598	0.000	1136496	10.0000	10.4
3 ACETALDEHYDE	4.165	4.165	0.000	851141	10.0000	9.99
4 ACROLEIN	4.791	4.791	0.000	864493	10.0000	10.6
5 ACETONE	4.991	4.991	0.000	615769	10.0000	9.88
6 PROPANAL	5.198	5.198	0.000	568899	10.0000	9.08
7 CROTONAL	5.991	5.991	0.000	558904	10.0000	9.81
9 BUTYRALS/MEK	6.565	6.565	0.000	520131	10.0000	9.61
10 BENZALDEHYDE	7.405	7.405	0.000	372301	10.0000	9.73
11 ISO-PENTANAL	8.338	8.338	0.000	459090	10.0000	10.1
12 PENTANAL	8.898	8.898	0.000	429421	10.0000	9.61
14 O-TOLUALDEHYDE	9.985	9.985	0.000	365742	10.0000	10.0
15 M,P-TOLUALDEHYDE	10.338	10.338	0.000	578411	20.0000	18.9
16 HEXANAL	12.091	12.091	0.000	395336	10.0000	9.80
17 2,5-Dimethylbenzaldehyde	12.745	12.745	0.000	282278	10.0000	9.57

Data File: /chem/hplcf.i/23Nov2010.b/f1123002.d

Date : 23-NOV-2010 08:01

Client ID: CCV

Instrument: hplcf.i

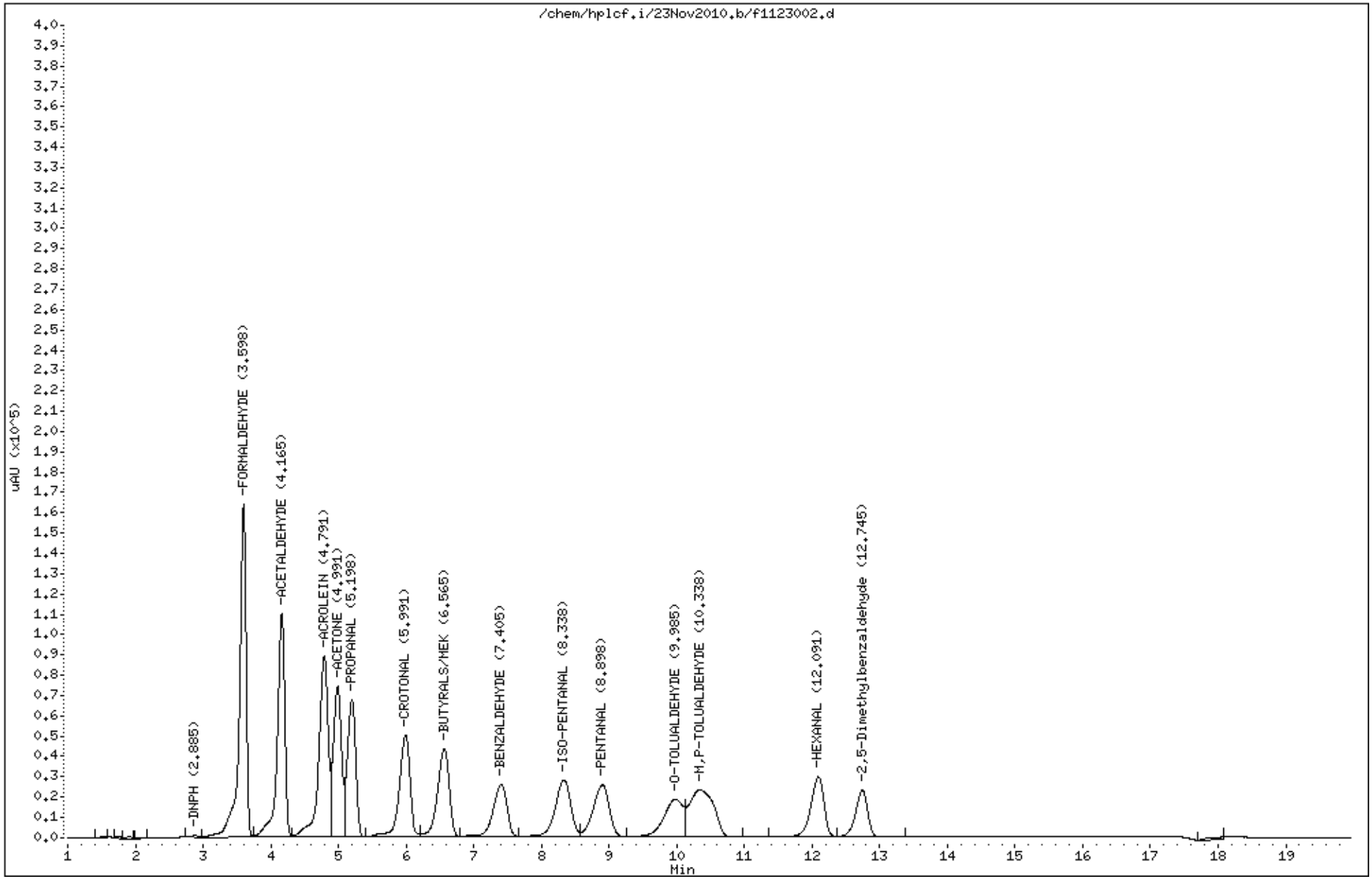
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123003.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 23-NOV-2010 08:22
Operator : FM Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 09:21 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	Compound Not Detected.					
3 ACETALDEHYDE	Compound Not Detected.					
4 ACROLEIN	Compound Not Detected.					
5 ACETONE	Compound Not Detected.					
6 PROPANAL	Compound Not Detected.					
7 CROTONAL	Compound Not Detected.					
9 BUTYRALS/MEK	Compound Not Detected.					
10 BENZALDEHYDE	Compound Not Detected.					
11 ISO-PENTANAL	Compound Not Detected.					
12 PENTANAL	Compound Not Detected.					
14 O-TOLUALDEHYDE	Compound Not Detected.					
15 M,P-TOLUALDEHYDE	Compound Not Detected.					
16 HEXANAL	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123003.d

Date : 23-NOV-2010 08:22

Client ID: LAB BLANK

Instrument: hplcf.i

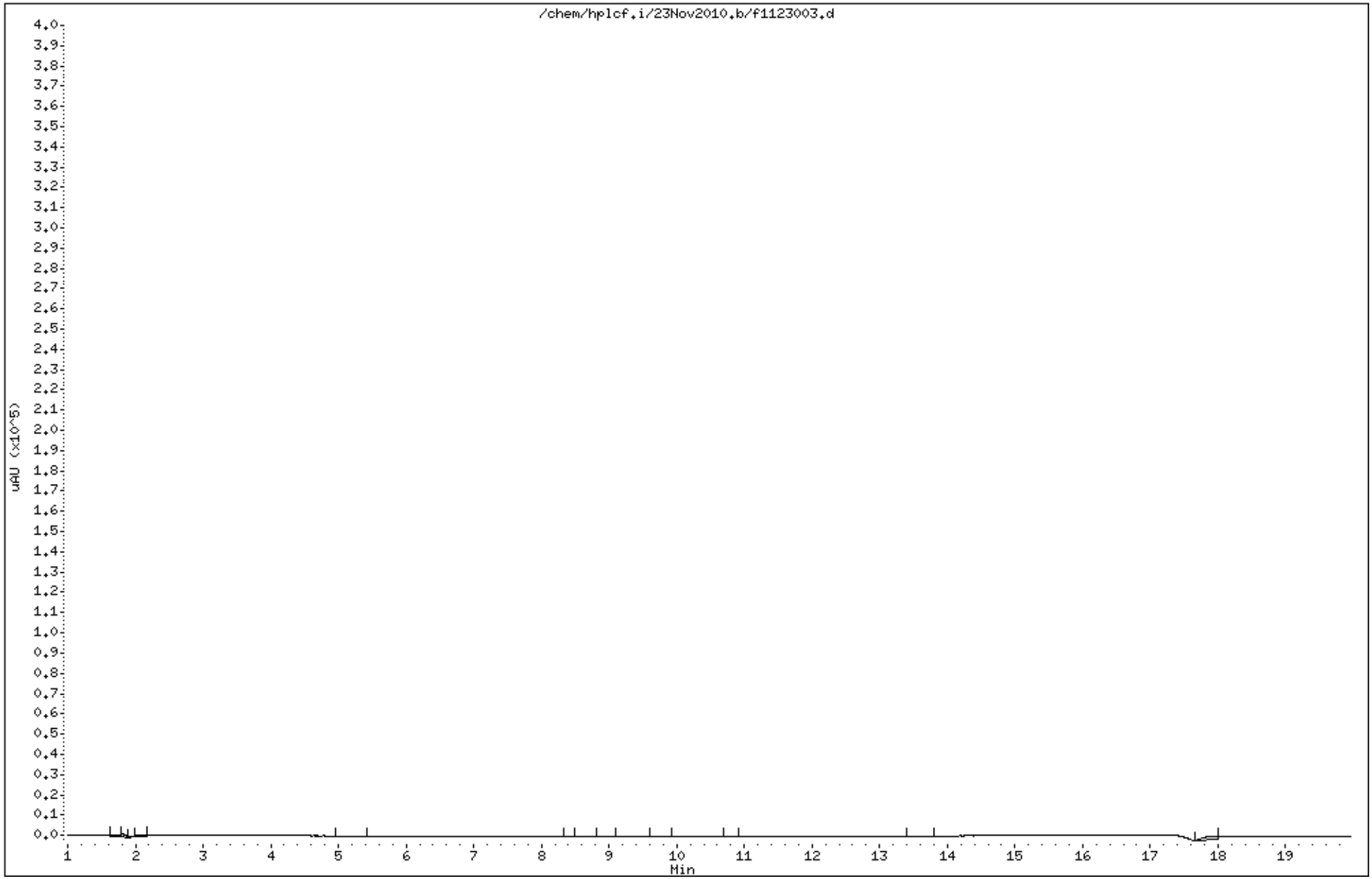
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 23Nov2010
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: AIR Quant Type: ESTD
Analysis Type: OTHER Level: MED
Data Type: LC DATA Operator: FM
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.3	
75-07-0	ACETALDEHYDE	9.23	
107-02-8	ACROLEIN	10.1	
67-64-1	ACETONE	9.79	
123-38-6	PROPANAL	9.24	
123-73-9	CROTONAL	9.82	
9999-9999-007	BUTYRALS/MEK	9.60	
100-52-7	BENZALDEHYDE	9.60	
590-86-3	ISO-PENTANAL	9.97	
110-62-3	PENTANAL	9.70	
529-20-4	O-TOLUALDEHYDE	10.2	
620-23-51	M,P-TOLUALDEHYDE	19.0	
66-25-1	HEXANAL	9.85	
5779-94-2	2,5-Dimethylbenzaldehyde	9.68	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123008.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 23-NOV-2010 10:06
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
2 FORMALDEHYDE	3.675	3.598	0.077	1127609	10.3002	10.3
3 ACETALDEHYDE	4.268	4.165	0.103	785758	9.22699	9.23
4 ACROLEIN	4.935	4.791	0.144	819165	10.0968	10.1
5 ACETONE	5.128	4.991	0.137	609926	9.78633	9.79
6 PROPANAL	5.355	5.198	0.157	579305	9.24166	9.24
7 CROTONAL	6.221	5.991	0.230	559357	9.82293	9.82
9 BUTYRALS/MEK	6.835	6.565	0.270	519448	9.59572	9.60
10 BENZALDEHYDE	7.755	7.405	0.350	367463	9.60466	9.60
11 ISO-PENTANAL	8.735	8.338	0.397	453422	9.97496	9.97
12 PENTANAL	9.335	8.898	0.437	433568	9.69947	9.70
14 O-TOLUALDEHYDE	10.455	9.985	0.470	370488	10.1598	10.2
15 M,P-TOLUALDEHYDE	10.781	10.338	0.443	582745	19.0230	19.0
16 HEXANAL	12.415	12.091	0.324	397187	9.84745	9.85
17 2,5-Dimethylbenzaldehyde	13.041	12.745	0.296	285571	9.68203	9.68

Report Date: 23-Nov-2010 12:43

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: FM
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.3	103.00	90-110
3 ACETALDEHYDE	10.0	9.23	92.27	90-110
4 ACROLEIN	10.0	10.1	100.97	90-110
5 ACETONE	10.0	9.79	97.86	90-110
6 PROPANAL	10.0	9.24	92.42	90-110
7 CROTONAL	10.0	9.82	98.23	90-110
9 BUTYRALS/MEK	10.0	9.60	95.96	90-110
10 BENZALDEHYDE	10.0	9.60	96.05	90-110
11 ISO-PENTANAL	10.0	9.97	99.75	90-110
12 PENTANAL	10.0	9.70	96.99	90-110
14 O-TOLUALDEHYDE	10.0	10.2	101.60	90-110
15 M,P-TOLUALDEHYDE	20.0	19.0	95.11	90-110
16 HEXANAL	10.0	9.85	98.47	90-110
17 2,5-Dimethylbenzal	10.0	9.68	96.82	90-110

Data File: /chem/hplcf.i/23Nov2010.b/f1123008.d

Date : 23-NOV-2010 10:06

Client ID: CCV

Instrument: hplcf.i

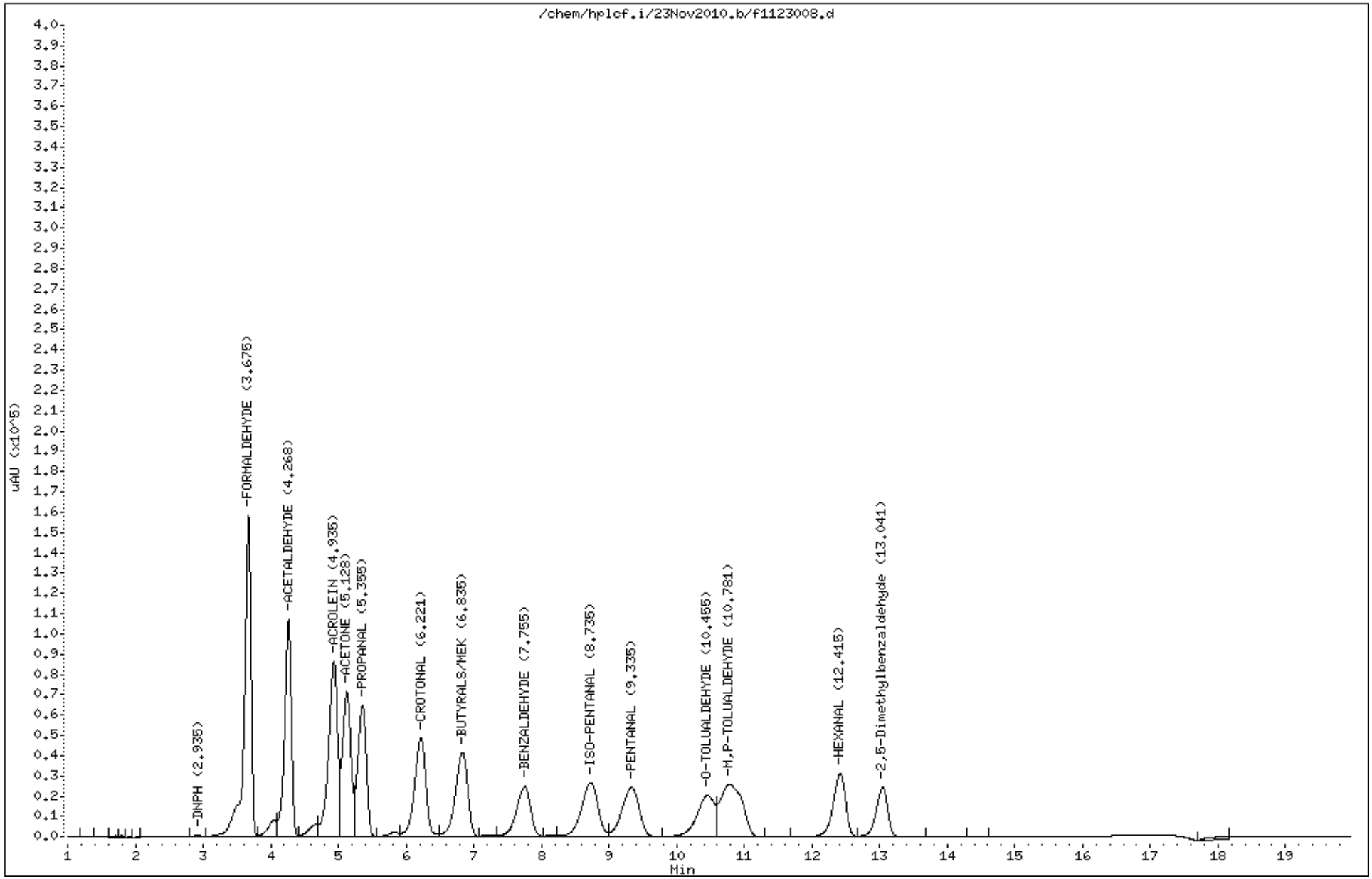
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123009.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 23-NOV-2010 10:27
Operator : FM Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	Compound Not Detected.					
3 ACETALDEHYDE	Compound Not Detected.					
4 ACROLEIN	Compound Not Detected.					
5 ACETONE	Compound Not Detected.					
6 PROPANAL	Compound Not Detected.					
7 CROTONAL	Compound Not Detected.					
9 BUTYRALS/MEK	Compound Not Detected.					
10 BENZALDEHYDE	Compound Not Detected.					
11 ISO-PENTANAL	Compound Not Detected.					
12 PENTANAL	Compound Not Detected.					
14 O-TOLUALDEHYDE	Compound Not Detected.					
15 M,P-TOLUALDEHYDE	Compound Not Detected.					
16 HEXANAL	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123009.d

Date : 23-NOV-2010 10:27

Client ID: LAB BLANK

Instrument: hplcf.i

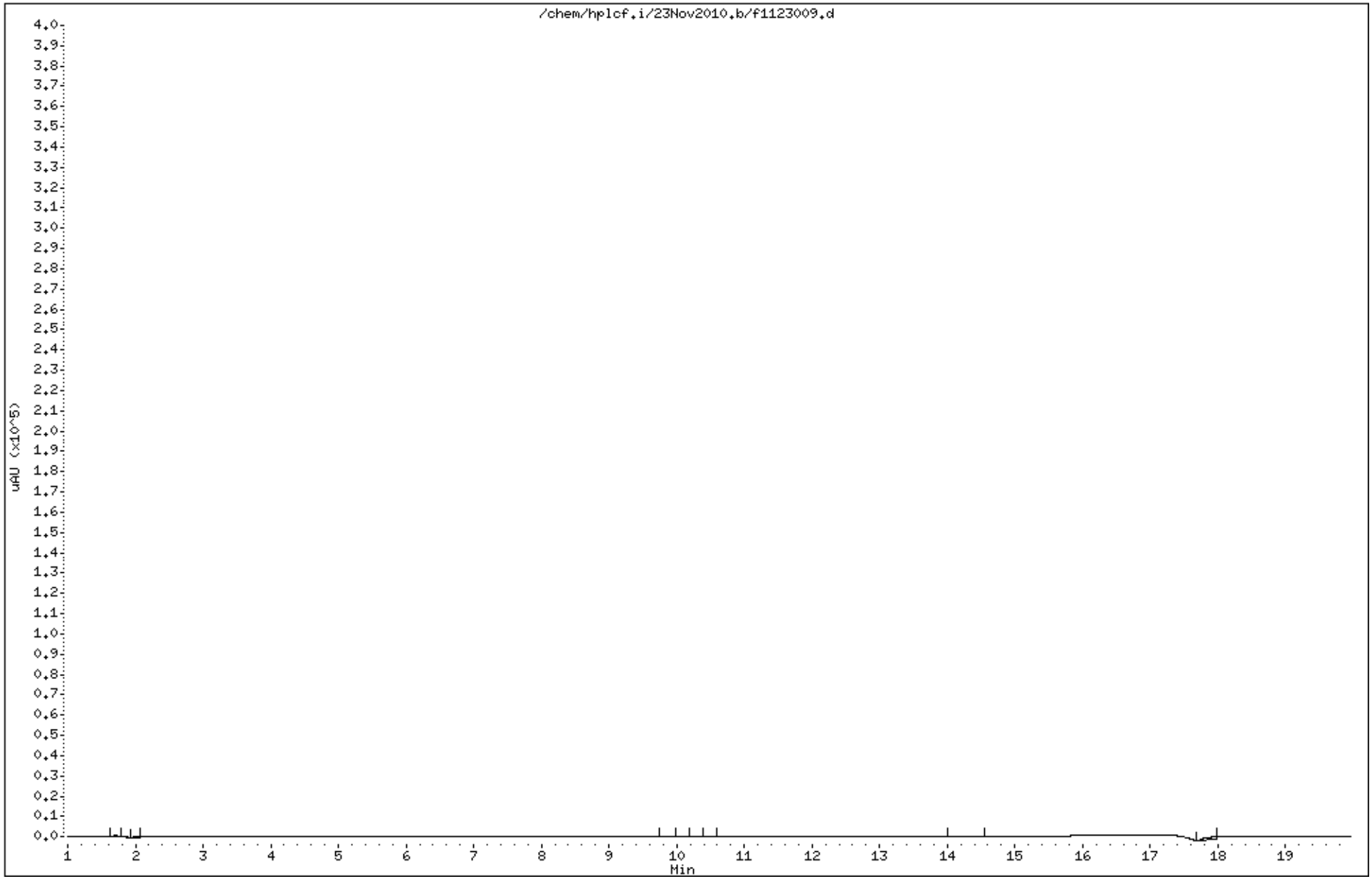
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 23Nov2010
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: AIR Quant Type: ESTD
Analysis Type: OTHER Level: MED
Data Type: LC DATA Operator: FM
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.4	
75-07-0	ACETALDEHYDE	10.1	
107-02-8	ACROLEIN	11.0	
67-64-1	ACETONE	9.64	
123-38-6	PROPANAL	9.13	
123-73-9	CROTONAL	10.2	
9999-9999-007	BUTYRALS/MEK	9.67	
100-52-7	BENZALDEHYDE	9.70	
590-86-3	ISO-PENTANAL	10.1	
110-62-3	PENTANAL	9.66	
529-20-4	O-TOLUALDEHYDE	10.4	
620-23-51	M,P-TOLUALDEHYDE	18.9	
66-25-1	HEXANAL	9.89	
5779-94-2	2,5-Dimethylbenzaldehyde	9.67	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123017.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 23-NOV-2010 13:14
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
2 FORMALDEHYDE	3.673	3.598	0.075	1142002	10.4317	10.4
3 ACETALDEHYDE	4.273	4.165	0.108	857222	10.0662	10.1
4 ACROLEIN	4.953	4.791	0.162	891863	10.9928	11.0
5 ACETONE	5.153	4.991	0.162	600647	9.63745	9.64
6 PROPANAL	5.380	5.198	0.182	572445	9.13222	9.13
7 CROTONAL	6.260	5.991	0.269	582083	10.2220	10.2
9 BUTYRALS/MEK	6.886	6.565	0.321	523307	9.66703	9.67
10 BENZALDEHYDE	7.819	7.405	0.414	371279	9.70441	9.70
11 ISO-PENTANAL	8.819	8.338	0.481	459622	10.1113	10.1
12 PENTANAL	9.440	8.898	0.542	431905	9.66225	9.66
14 O-TOLUALDEHYDE	10.579	9.985	0.594	379555	10.4084	10.4
15 M,P-TOLUALDEHYDE	10.899	10.338	0.561	578572	18.8867	18.9
16 HEXANAL	12.506	12.091	0.415	398772	9.88676	9.89
17 2,5-Dimethylbenzaldehyde	13.133	12.745	0.388	285282	9.67223	9.67

Report Date: 23-Nov-2010 14:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: FM
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.4	104.32	90-110
3 ACETALDEHYDE	10.0	10.1	100.66	90-110
4 ACROLEIN	10.0	11.0	109.93	90-110
5 ACETONE	10.0	9.64	96.37	90-110
6 PROPANAL	10.0	9.13	91.32	90-110
7 CROTONAL	10.0	10.2	102.22	90-110
9 BUTYRALS/MEK	10.0	9.67	96.67	90-110
10 BENZALDEHYDE	10.0	9.70	97.04	90-110
11 ISO-PENTANAL	10.0	10.1	101.11	90-110
12 PENTANAL	10.0	9.66	96.62	90-110
14 O-TOLUALDEHYDE	10.0	10.4	104.08	90-110
15 M,P-TOLUALDEHYDE	20.0	18.9	94.43	90-110
16 HEXANAL	10.0	9.89	98.87	90-110
17 2,5-Dimethylbenzal	10.0	9.67	96.72	90-110

Data File: /chem/hplcf.i/23Nov2010.b/f1123017.d

Date : 23-NOV-2010 13:14

Client ID: CCV

Instrument: hplcf.i

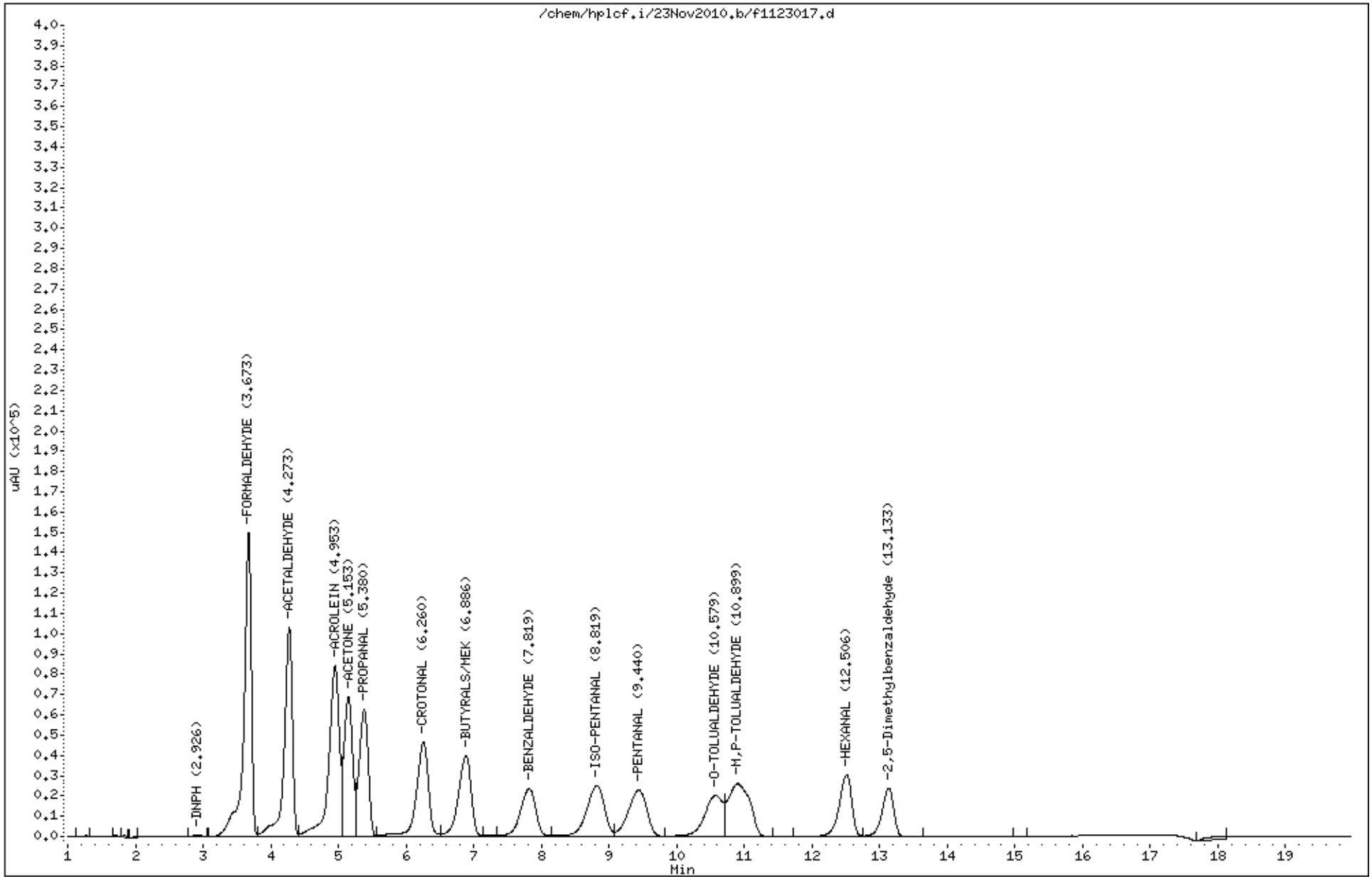
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123018.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 23-NOV-2010 13:35
Operator : FM Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	Compound Not Detected.					
3 ACETALDEHYDE	Compound Not Detected.					
4 ACROLEIN	Compound Not Detected.					
5 ACETONE	Compound Not Detected.					
6 PROPANAL	Compound Not Detected.					
7 CROTONAL	Compound Not Detected.					
9 BUTYRALS/MEK	Compound Not Detected.					
10 BENZALDEHYDE	Compound Not Detected.					
11 ISO-PENTANAL	Compound Not Detected.					
12 PENTANAL	Compound Not Detected.					
14 O-TOLUALDEHYDE	Compound Not Detected.					
15 M,P-TOLUALDEHYDE	Compound Not Detected.					
16 HEXANAL	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123018.d

Date : 23-NOV-2010 13:35

Client ID: LAB BLANK

Instrument: hplcf.i

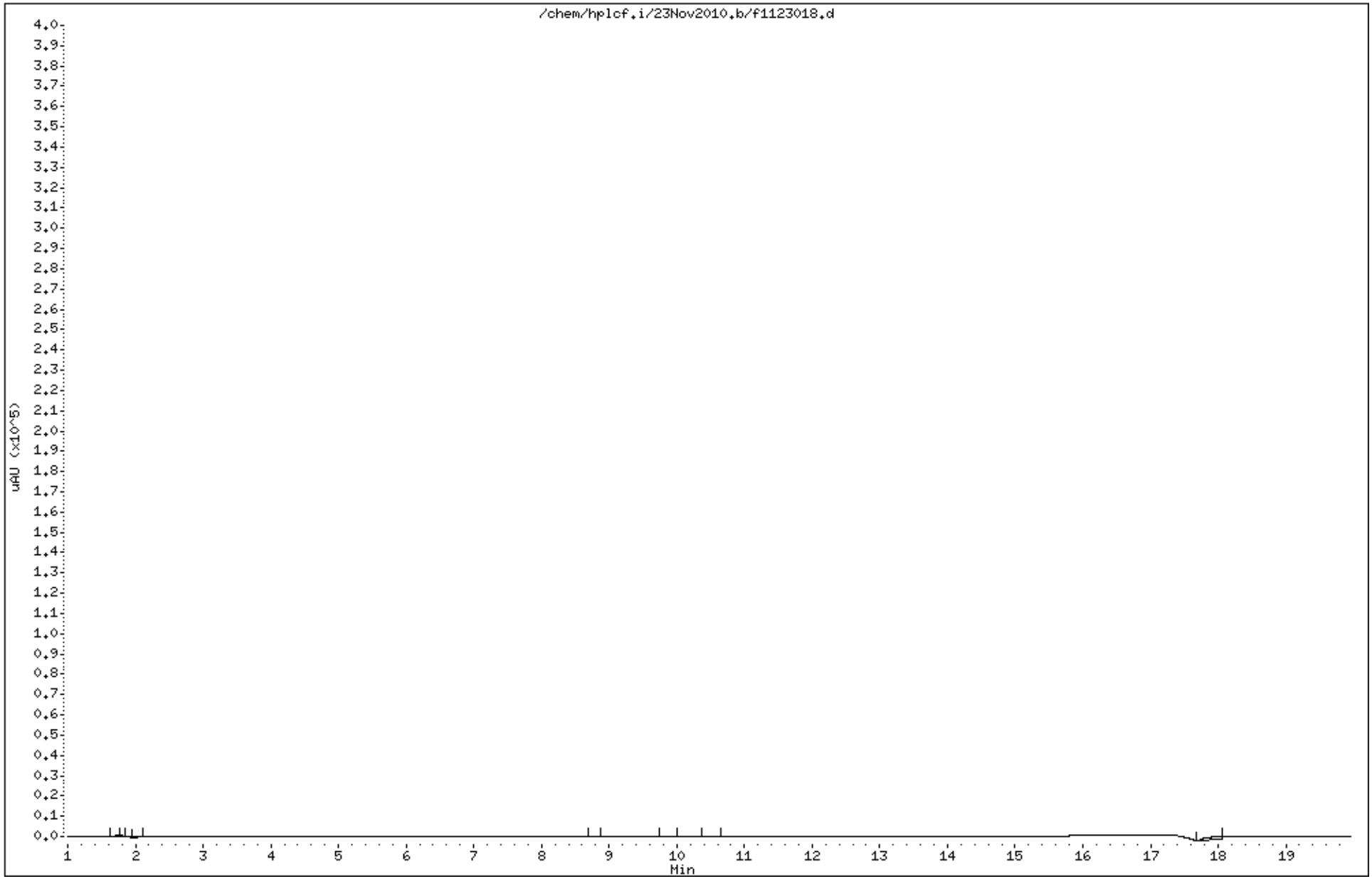
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 23Nov2010
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: AIR Quant Type: ESTD
Analysis Type: OTHER Level: MED
Data Type: LC DATA Operator: FM
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.3	
75-07-0	ACETALDEHYDE	9.76	
107-02-8	ACROLEIN	10.5	
67-64-1	ACETONE	9.67	
123-38-6	PROPANAL	9.25	
123-73-9	CROTONAL	9.91	
9999-9999-007	BUTYRALS/MEK	9.69	
100-52-7	BENZALDEHYDE	9.60	
590-86-3	ISO-PENTANAL	9.94	
110-62-3	PENTANAL	9.61	
529-20-4	O-TOLUALDEHYDE	10.1	
620-23-51	M,P-TOLUALDEHYDE	19.2	
66-25-1	HEXANAL	9.85	
5779-94-2	2,5-Dimethylbenzaldehyde	9.63	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123030.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 23-NOV-2010 17:46
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
2 FORMALDEHYDE	3.692	3.598	0.094	1128813	10.3112	10.3
3 ACETALDEHYDE	4.292	4.165	0.127	831255	9.76126	9.76
4 ACROLEIN	4.972	4.791	0.181	850078	10.4778	10.5
5 ACETONE	5.172	4.991	0.181	602540	9.66782	9.67
6 PROPANAL	5.405	5.198	0.207	579661	9.24734	9.25
7 CROTONAL	6.285	5.991	0.294	564235	9.90858	9.91
9 BUTYRALS/MEK	6.905	6.565	0.340	524811	9.69480	9.69
10 BENZALDEHYDE	7.852	7.405	0.447	367361	9.60199	9.60
11 ISO-PENTANAL	8.845	8.338	0.507	451853	9.94043	9.94
12 PENTANAL	9.465	8.898	0.567	429598	9.61065	9.61
14 O-TOLUALDEHYDE	10.598	9.985	0.613	367745	10.0846	10.1
15 M,P-TOLUALDEHYDE	10.918	10.338	0.580	588738	19.2186	19.2
16 HEXANAL	12.525	12.091	0.434	397168	9.84698	9.85
17 2,5-Dimethylbenzaldehyde	13.145	12.745	0.400	284071	9.63121	9.63

Report Date: 24-Nov-2010 07:31

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: FM
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.3	103.11	90-110
3 ACETALDEHYDE	10.0	9.76	97.61	90-110
4 ACROLEIN	10.0	10.5	104.78	90-110
5 ACETONE	10.0	9.67	96.68	90-110
6 PROPANAL	10.0	9.25	92.47	90-110
7 CROTONAL	10.0	9.91	99.09	90-110
9 BUTYRALS/MEK	10.0	9.69	96.95	90-110
10 BENZALDEHYDE	10.0	9.60	96.02	90-110
11 ISO-PENTANAL	10.0	9.94	99.40	90-110
12 PENTANAL	10.0	9.61	96.11	90-110
14 O-TOLUALDEHYDE	10.0	10.1	100.85	90-110
15 M,P-TOLUALDEHYDE	20.0	19.2	96.09	90-110
16 HEXANAL	10.0	9.85	98.47	90-110
17 2,5-Dimethylbenzal	10.0	9.63	96.31	90-110

Data File: /chem/hplcf.i/23Nov2010.b/f1123030.d

Date : 23-NOV-2010 17:46

Client ID: CCV

Instrument: hplcf.i

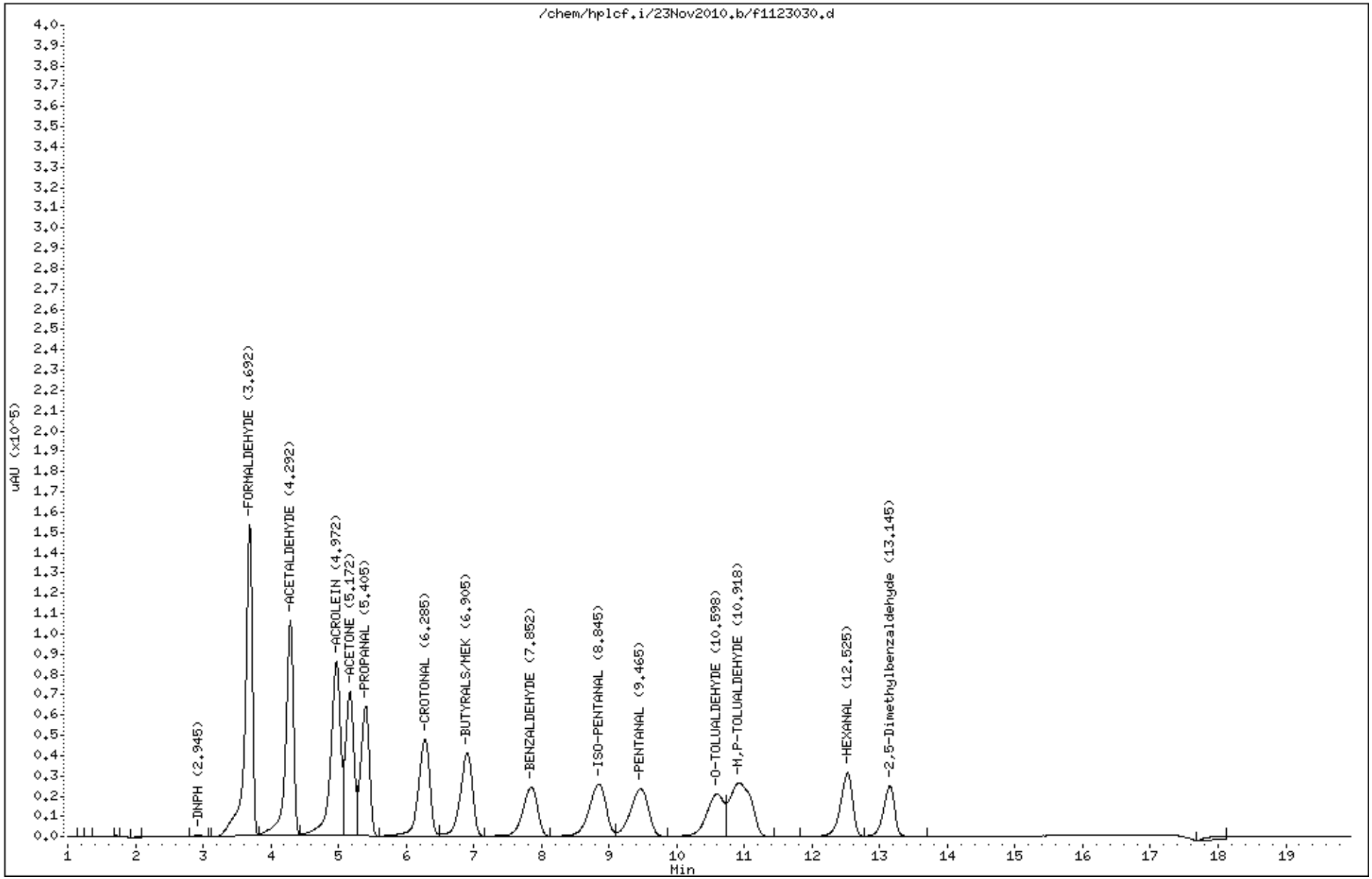
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123031.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 23-NOV-2010 18:06
Operator : FM Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	Compound Not Detected.					
3 ACETALDEHYDE	Compound Not Detected.					
4 ACROLEIN	Compound Not Detected.					
5 ACETONE	Compound Not Detected.					
6 PROPANAL	Compound Not Detected.					
7 CROTONAL	Compound Not Detected.					
9 BUTYRALS/MEK	Compound Not Detected.					
10 BENZALDEHYDE	Compound Not Detected.					
11 ISO-PENTANAL	Compound Not Detected.					
12 PENTANAL	Compound Not Detected.					
14 O-TOLUALDEHYDE	Compound Not Detected.					
15 M,P-TOLUALDEHYDE	Compound Not Detected.					
16 HEXANAL	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123031.d

Date : 23-NOV-2010 18:06

Client ID: LAB BLANK

Instrument: hplcf.i

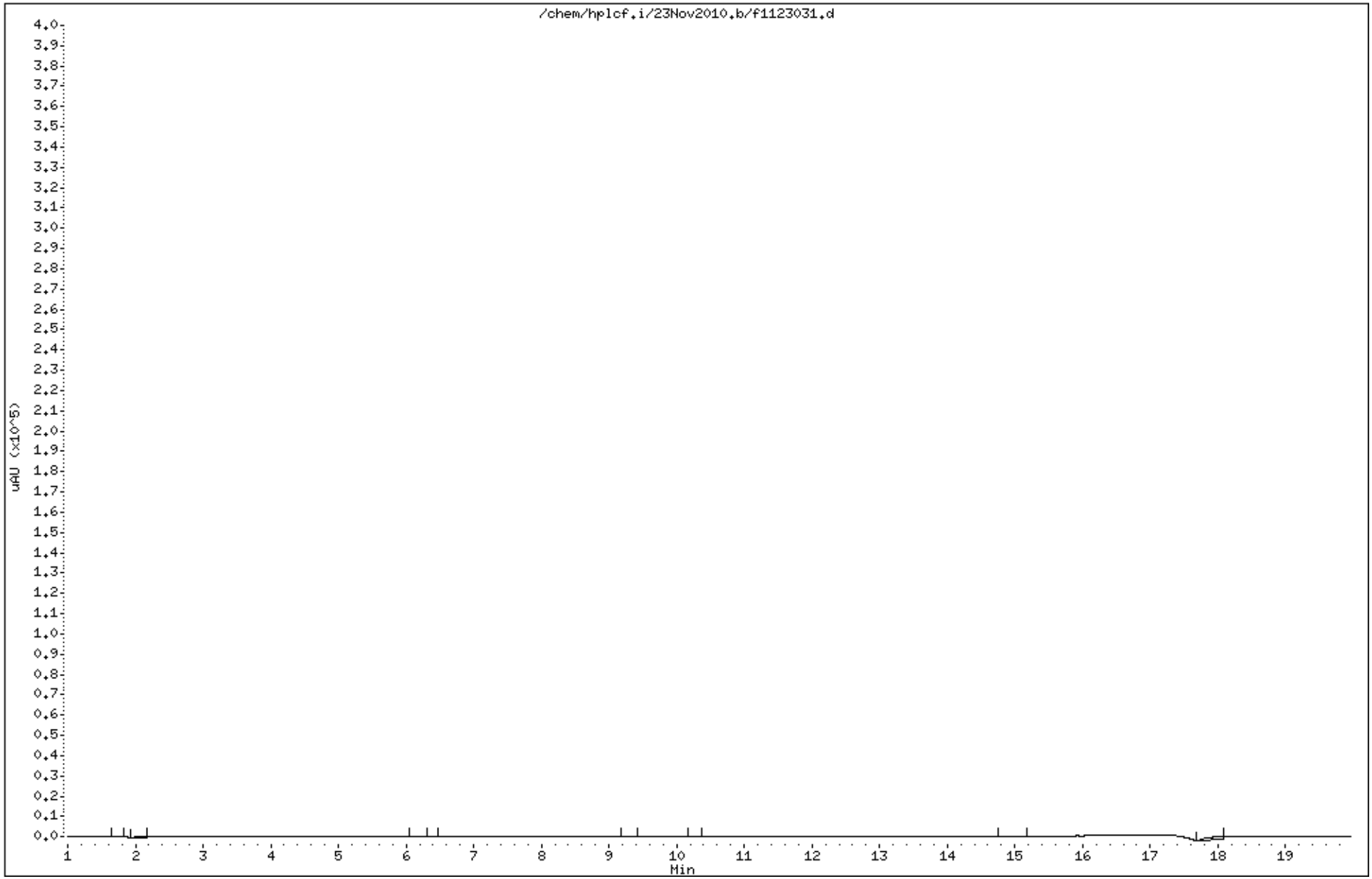
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 23Nov2010
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: AIR Quant Type: ESTD
Analysis Type: OTHER Level: MED
Data Type: LC DATA Operator: FM
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.5	
75-07-0	ACETALDEHYDE	10.1	
107-02-8	ACROLEIN	11.0	
67-64-1	ACETONE	9.73	
123-38-6	PROPANAL	9.14	
123-73-9	CROTONAL	10.3	
9999-9999-007	BUTYRALS/MEK	9.66	
100-52-7	BENZALDEHYDE	9.72	
590-86-3	ISO-PENTANAL	10.1	
110-62-3	PENTANAL	9.63	
529-20-4	O-TOLUALDEHYDE	10.3	
620-23-51	M,P-TOLUALDEHYDE	18.8	
66-25-1	HEXANAL	10.1	
5779-94-2	2,5-Dimethylbenzaldehyde	9.67	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123042.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 23-NOV-2010 21:56
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
2 FORMALDEHYDE	3.651	3.598	0.053	1145512	10.4638	10.5
3 ACETALDEHYDE	4.245	4.165	0.080	860273	10.1020	10.1
4 ACROLEIN	4.911	4.791	0.120	891474	10.9880	11.0
5 ACETONE	5.105	4.991	0.114	606562	9.73236	9.73
6 PROPANAL	5.331	5.198	0.133	573213	9.14448	9.14
7 CROTONAL	6.185	5.991	0.194	585724	10.2859	10.3
9 BUTYRALS/MEK	6.805	6.565	0.240	522783	9.65734	9.66
10 BENZALDEHYDE	7.711	7.405	0.306	372065	9.72494	9.72
11 ISO-PENTANAL	8.698	8.338	0.360	459538	10.1095	10.1
12 PENTANAL	9.298	8.898	0.400	430288	9.62608	9.63
14 O-TOLUALDEHYDE	10.425	9.985	0.440	376945	10.3369	10.3
15 M,P-TOLUALDEHYDE	10.751	10.338	0.413	577449	18.8501	18.8
16 HEXANAL	12.405	12.091	0.314	406661	10.0823	10.1
17 2,5-Dimethylbenzaldehyde	13.038	12.745	0.293	285337	9.67411	9.67

Report Date: 24-Nov-2010 08:08

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: FM
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.5	104.64	90-110
3 ACETALDEHYDE	10.0	10.1	101.02	90-110
4 ACROLEIN	10.0	11.0	109.88	90-110
5 ACETONE	10.0	9.73	97.32	90-110
6 PROPANAL	10.0	9.14	91.44	90-110
7 CROTONAL	10.0	10.3	102.86	90-110
9 BUTYRALS/MEK	10.0	9.66	96.57	90-110
10 BENZALDEHYDE	10.0	9.72	97.25	90-110
11 ISO-PENTANAL	10.0	10.1	101.09	90-110
12 PENTANAL	10.0	9.63	96.26	90-110
14 O-TOLUALDEHYDE	10.0	10.3	103.37	90-110
15 M,P-TOLUALDEHYDE	20.0	18.8	94.25	90-110
16 HEXANAL	10.0	10.1	100.82	90-110
17 2,5-Dimethylbenzal	10.0	9.67	96.74	90-110

Data File: /chem/hplcf.i/23Nov2010.b/f1123042.d

Date : 23-NOV-2010 21:56

Client ID: CCV

Instrument: hplcf.i

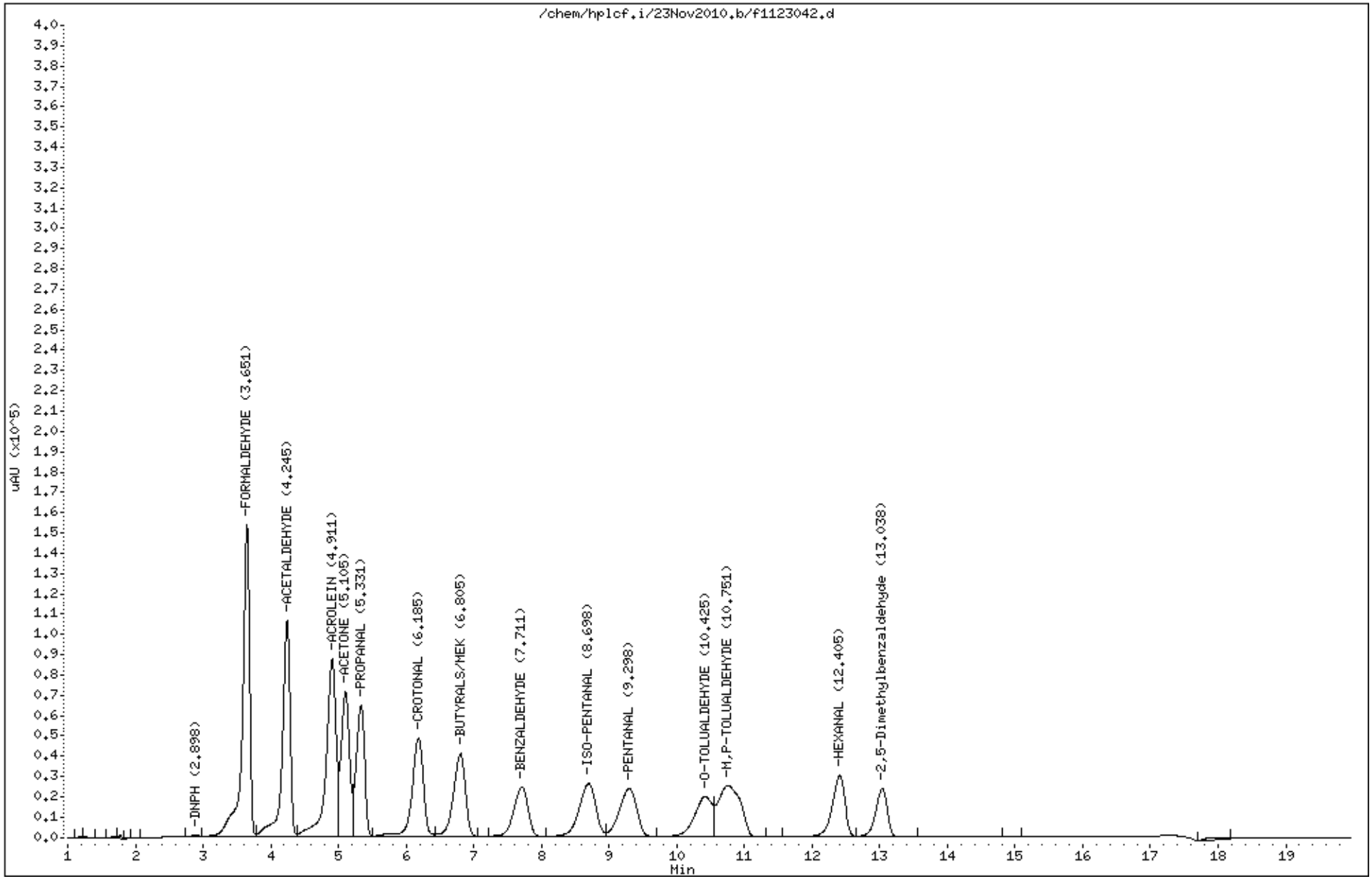
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123043.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 23-NOV-2010 22:17
Operator : FM Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1	DNPH	Compound Not Detected.					
2	FORMALDEHYDE	Compound Not Detected.					
3	ACETALDEHYDE	Compound Not Detected.					
4	ACROLEIN	Compound Not Detected.					
5	ACETONE	Compound Not Detected.					
6	PROPANAL	Compound Not Detected.					
7	CROTONAL	Compound Not Detected.					
9	BUTYRALS/MEK	Compound Not Detected.					
10	BENZALDEHYDE	Compound Not Detected.					
11	ISO-PENTANAL	Compound Not Detected.					
12	PENTANAL	Compound Not Detected.					
14	O-TOLUALDEHYDE	Compound Not Detected.					
15	M,P-TOLUALDEHYDE	Compound Not Detected.					
16	HEXANAL	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123043.d

Date : 23-NOV-2010 22:17

Client ID: LAB BLANK

Instrument: hplcf.i

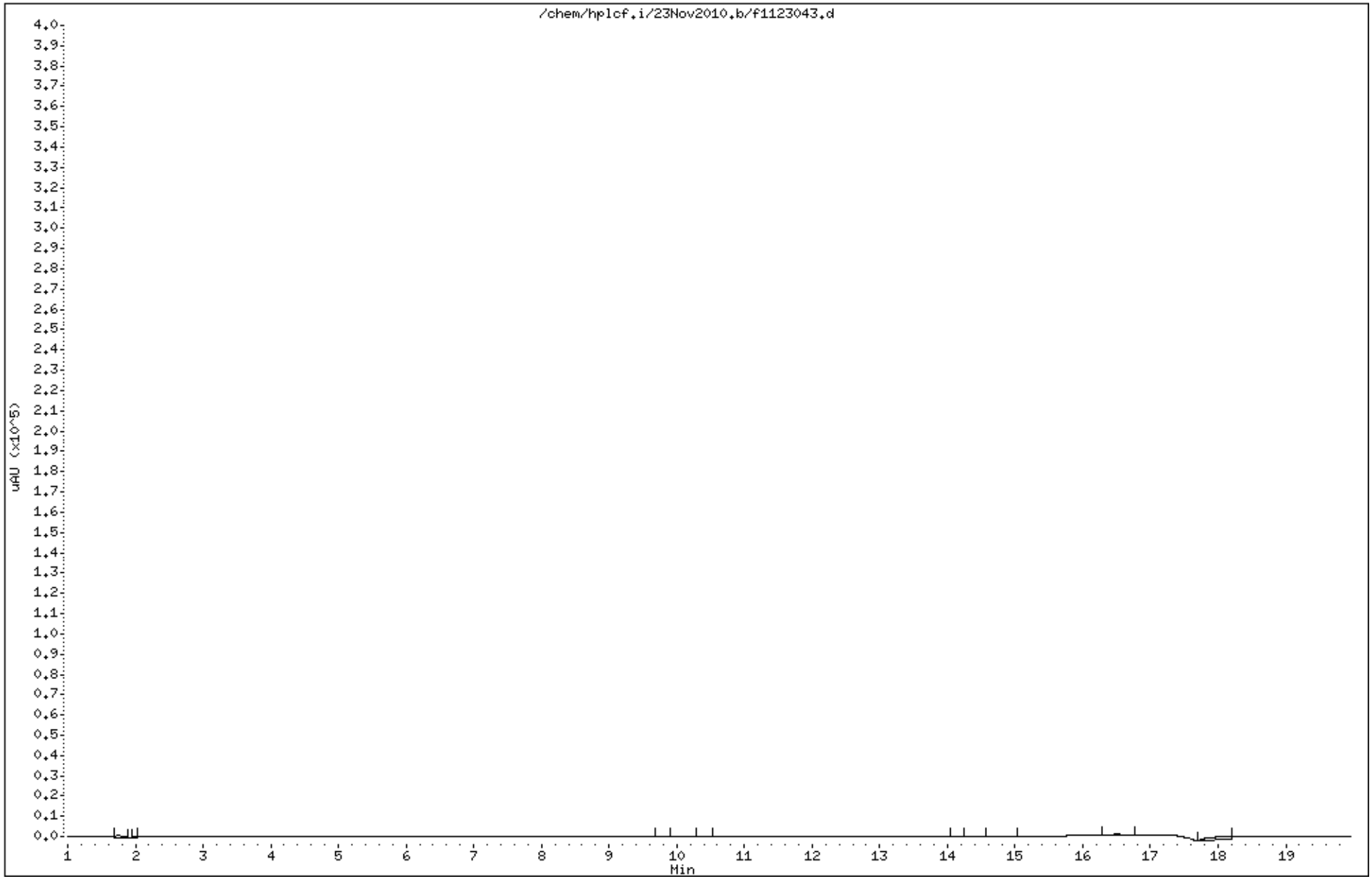
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 23Nov2010
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: AIR Quant Type: ESTD
Analysis Type: OTHER Level: MED
Data Type: LC DATA Operator: FM
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.4	
75-07-0	ACETALDEHYDE	10.1	
107-02-8	ACROLEIN	11.0	
67-64-1	ACETONE	9.70	
123-38-6	PROPANAL	9.04	
123-73-9	CROTONAL	9.95	
9999-9999-007	BUTYRALS/MEK	9.60	
100-52-7	BENZALDEHYDE	9.77	
590-86-3	ISO-PENTANAL	10.0	
110-62-3	PENTANAL	9.58	
529-20-4	O-TOLUALDEHYDE	10.4	
620-23-51	M,P-TOLUALDEHYDE	18.6	
66-25-1	HEXANAL	10.0	
5779-94-2	2,5-Dimethylbenzaldehyde	9.77	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123054.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 24-NOV-2010 02:07
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
2 FORMALDEHYDE	3.664	3.598	0.066	1143629	10.4466	10.4
3 ACETALDEHYDE	4.257	4.165	0.092	857356	10.0678	10.1
4 ACROLEIN	4.917	4.791	0.126	894325	11.0232	11.0(R)
5 ACETONE	5.111	4.991	0.120	604454	9.69854	9.70
6 PROPANAL	5.337	5.198	0.139	567015	9.04560	9.04
7 CROTONAL	6.184	5.991	0.193	566512	9.94857	9.95
9 BUTYRALS/MEK	6.790	6.565	0.225	519531	9.59726	9.60
10 BENZALDEHYDE	7.691	7.405	0.286	373685	9.76728	9.77
11 ISO-PENTANAL	8.657	8.338	0.319	457136	10.0567	10.0
12 PENTANAL	9.251	8.898	0.353	428152	9.57831	9.58
14 O-TOLUALDEHYDE	10.364	9.985	0.379	379507	10.4071	10.4
15 M,P-TOLUALDEHYDE	10.691	10.338	0.353	570305	18.6169	18.6
16 HEXANAL	12.357	12.091	0.266	404881	10.0382	10.0
17 2,5-Dimethylbenzaldehyde	12.984	12.745	0.239	288205	9.77135	9.77

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 24-Nov-2010 08:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: FM
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.4	104.47	90-110
3 ACETALDEHYDE	10.0	10.1	100.68	90-110
4 ACROLEIN	10.0	11.0	110.23*	90-110
5 ACETONE	10.0	9.70	96.99	90-110
6 PROPANAL	10.0	9.04	90.46	90-110
7 CROTONAL	10.0	9.95	99.49	90-110
9 BUTYRALS/MEK	10.0	9.60	95.97	90-110
10 BENZALDEHYDE	10.0	9.77	97.67	90-110
11 ISO-PENTANAL	10.0	10.0	100.57	90-110
12 PENTANAL	10.0	9.58	95.78	90-110
14 O-TOLUALDEHYDE	10.0	10.4	104.07	90-110
15 M,P-TOLUALDEHYDE	20.0	18.6	93.08	90-110
16 HEXANAL	10.0	10.0	100.38	90-110
17 2,5-Dimethylbenzal	10.0	9.77	97.71	90-110

Data File: /chem/hplcf.i/23Nov2010.b/f1123054.d

Date : 24-NOV-2010 02:07

Client ID: CCV

Instrument: hplcf.i

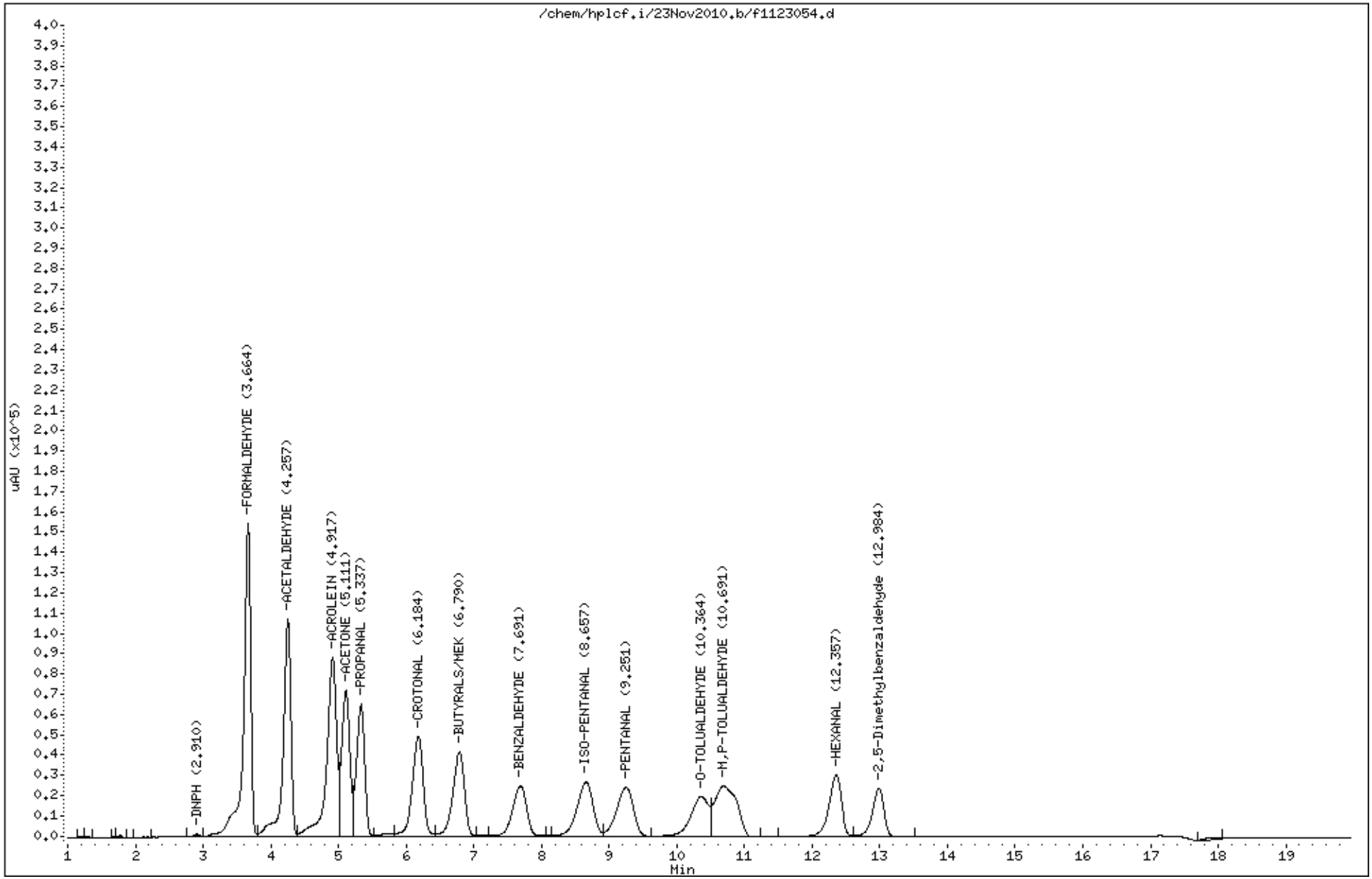
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123055.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 24-NOV-2010 02:28
Operator : FM Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1	DNPH	Compound Not Detected.					
2	FORMALDEHYDE	Compound Not Detected.					
3	ACETALDEHYDE	Compound Not Detected.					
4	ACROLEIN	Compound Not Detected.					
5	ACETONE	Compound Not Detected.					
6	PROPANAL	Compound Not Detected.					
7	CROTONAL	Compound Not Detected.					
9	BUTYRALS/MEK	Compound Not Detected.					
10	BENZALDEHYDE	Compound Not Detected.					
11	ISO-PENTANAL	Compound Not Detected.					
12	PENTANAL	Compound Not Detected.					
14	O-TOLUALDEHYDE	Compound Not Detected.					
15	M,P-TOLUALDEHYDE	Compound Not Detected.					
16	HEXANAL	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Data File: /chem/hplcf.i/23Nov2010.b/f1123055.d

Date : 24-NOV-2010 02:28

Client ID: LAB BLANK

Instrument: hplcf.i

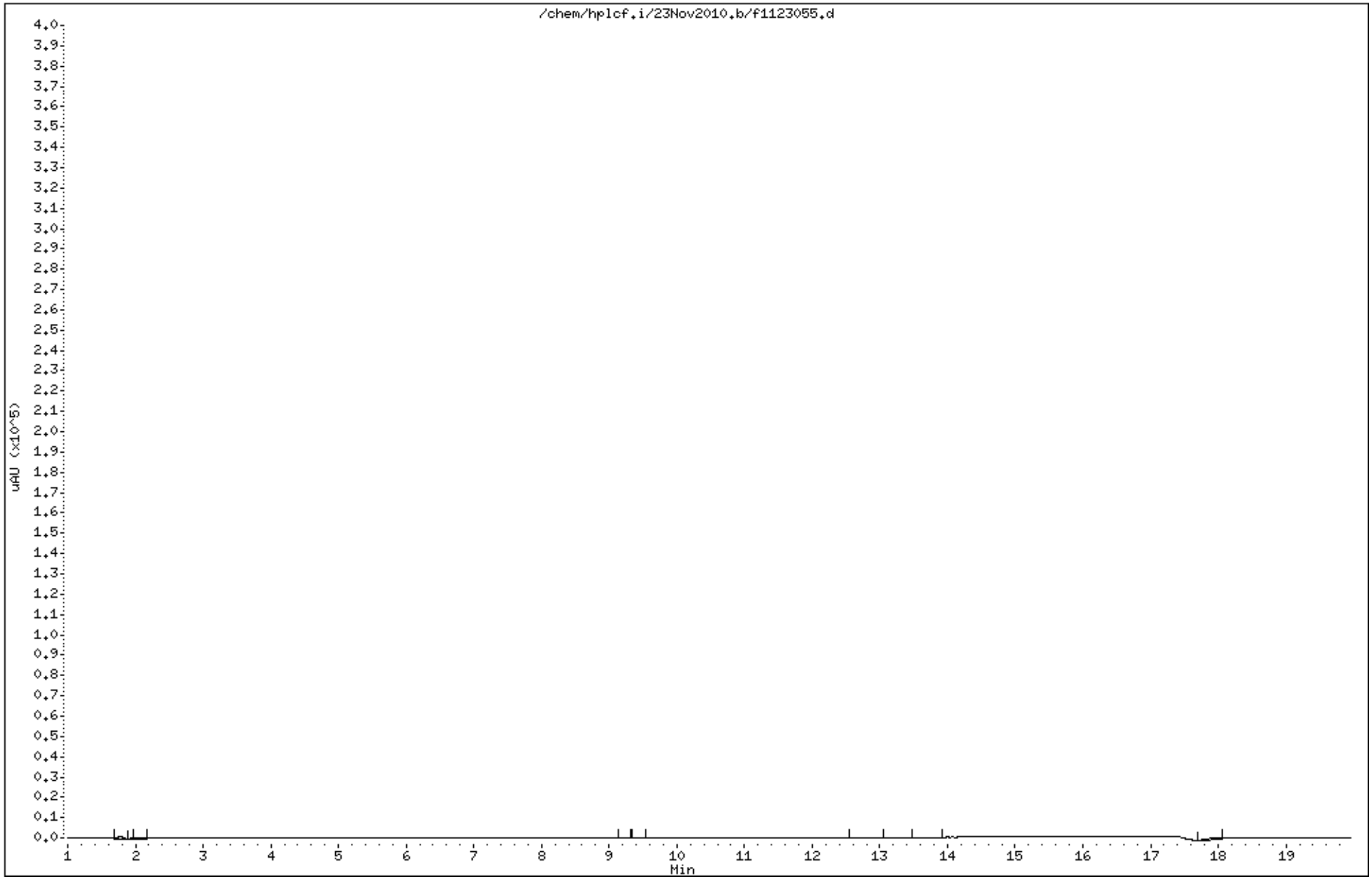
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 23Nov2010
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: AIR Quant Type: ESTD
Analysis Type: OTHER Level: MED
Data Type: LC DATA Operator: FM
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.2	
75-07-0	ACETALDEHYDE	10.0	
107-02-8	ACROLEIN	10.7	
67-64-1	ACETONE	9.71	
123-38-6	PROPANAL	9.38	
123-73-9	CROTONAL	9.90	
9999-9999-007	BUTYRALS/MEK	9.83	
100-52-7	BENZALDEHYDE	9.80	
590-86-3	ISO-PENTANAL	10.1	
110-62-3	PENTANAL	9.76	
529-20-4	O-TOLUALDEHYDE	10.1	
620-23-51	M,P-TOLUALDEHYDE	19.2	
66-25-1	HEXANAL	9.98	
5779-94-2	2,5-Dimethylbenzaldehyde	9.68	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123066.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 24-NOV-2010 06:17
Operator : FM Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 24-Nov-2010 07:34 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
2 FORMALDEHYDE	3.603	3.598	0.005	1123159	10.2596	10.2
3 ACETALDEHYDE	4.183	4.165	0.018	856046	10.0524	10.0
4 ACROLEIN	4.836	4.791	0.045	868344	10.7029	10.7
5 ACETONE	5.030	4.991	0.039	605339	9.71274	9.71
6 PROPANAL	5.250	5.198	0.052	588193	9.38346	9.38
7 CROTONAL	6.090	5.991	0.099	563811	9.90114	9.90
9 BUTYRALS/MEK	6.690	6.565	0.125	532279	9.83275	9.83
10 BENZALDEHYDE	7.577	7.405	0.172	375085	9.80388	9.80
11 ISO-PENTANAL	8.537	8.338	0.199	457419	10.0629	10.1
12 PENTANAL	9.123	8.898	0.225	436465	9.76427	9.76
14 O-TOLUALDEHYDE	10.236	9.985	0.251	369668	10.1373	10.1
15 M,P-TOLUALDEHYDE	10.583	10.338	0.245	588967	19.2261	19.2
16 HEXANAL	12.277	12.091	0.186	402594	9.98151	9.98
17 2,5-Dimethylbenzaldehyde	12.916	12.745	0.171	285453	9.67805	9.68

Report Date: 24-Nov-2010 08:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: FM
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.2	102.60	90-110
3 ACETALDEHYDE	10.0	10.0	100.52	90-110
4 ACROLEIN	10.0	10.7	107.03	90-110
5 ACETONE	10.0	9.71	97.13	90-110
6 PROPANAL	10.0	9.38	93.83	90-110
7 CROTONAL	10.0	9.90	99.01	90-110
9 BUTYRALS/MEK	10.0	9.83	98.33	90-110
10 BENZALDEHYDE	10.0	9.80	98.04	90-110
11 ISO-PENTANAL	10.0	10.1	100.63	90-110
12 PENTANAL	10.0	9.76	97.64	90-110
14 O-TOLUALDEHYDE	10.0	10.1	101.37	90-110
15 M,P-TOLUALDEHYDE	20.0	19.2	96.13	90-110
16 HEXANAL	10.0	9.98	99.82	90-110
17 2,5-Dimethylbenzal	10.0	9.68	96.78	90-110

Data File: /chem/hplcf.i/23Nov2010.b/f1123066.d

Date : 24-NOV-2010 06:17

Client ID: CCV

Instrument: hplcf.i

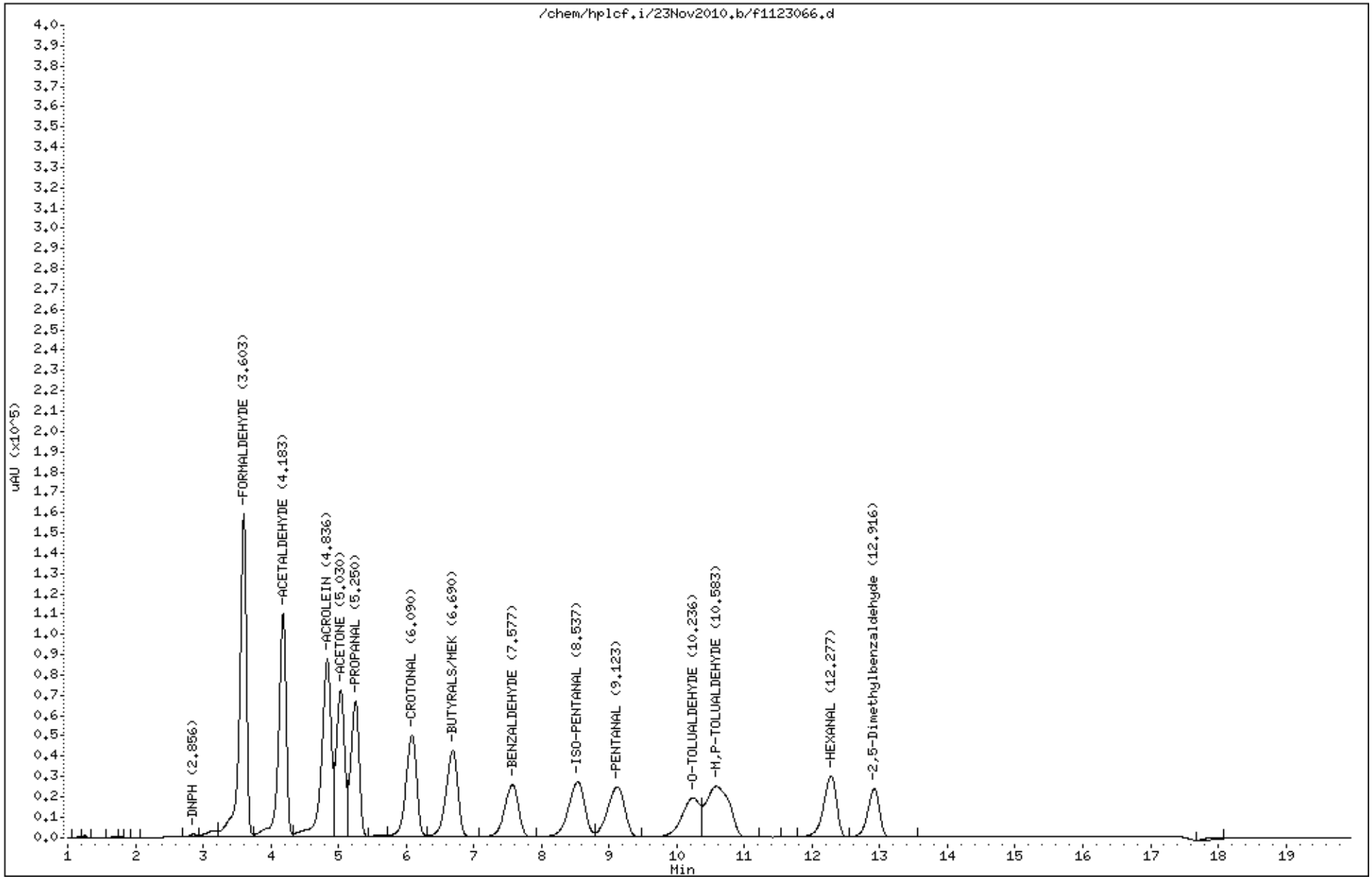
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1011418A-17A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123019**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 01:56 PM**
		Date of Extraction: 11/23/10

Compound	%Recovery
Formaldehyde	99

Container Type: Radiello 165 (Aldehydes)

Report Date: 23-Nov-2010 14:50

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1011418A Client Smp ID: LCS
Level: MED Operator: FM
Data Type: LC DATA SampleType: LCS
SpikeList File: Form15TO11.spk Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	14.9	99.21	85-115

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123019.d
Lab Smp Id: 1011418A Client Smp ID: LCS
Inj Date : 23-NOV-2010 13:56
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A;LCS
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.905	2.885	0.020	26210508		
2 FORMALDEHYDE	3.684	3.598	0.086	4072665	37.2020	14.9

Data File: /chem/hplcf.i/23Nov2010.b/f1123019.d

Page 1

Date : 23-NOV-2010 13:56

Client ID: LCS

Instrument: hplcf.i

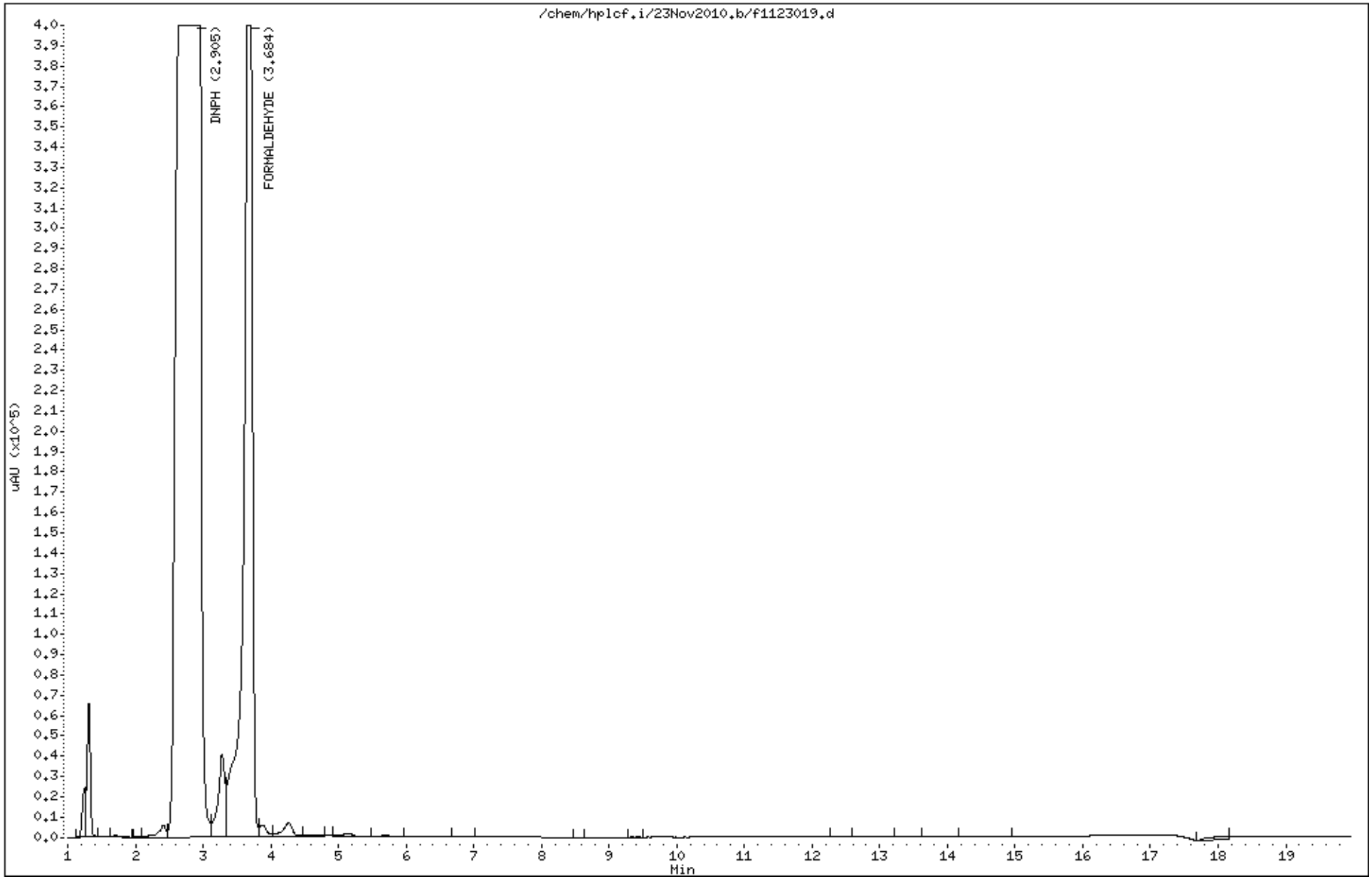
Sample Info: ;1011418A;LCS

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1011418A-17AA

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1123020**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/23/10 02:17 PM**
		Date of Extraction: 11/23/10

Compound	%Recovery
Formaldehyde	99

Container Type: Radiello 165 (Aldehydes)

Report Date: 23-Nov-2010 14:50

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1011418A Client Smp ID: LCSD
Level: MED Operator: FM
Data Type: LC DATA SampleType: LCSD
SpikeList File: Form15TO11.spk Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/23Nov2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	14.8	98.91	85-115

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/23Nov2010.b/f1123020.d
Lab Smp Id: 1011418A Client Smp ID: LCSD
Inj Date : 23-NOV-2010 14:17
Operator : FM Inst ID: hplcf.i
Smp Info : ;1011418A;LCSD
Misc Info :
Comment :
Method : /chem/hplcf.i/23Nov2010.b/F10D0914.m
Meth Date : 23-Nov-2010 12:36 cleaf Quant Type: ESTD
Cal Date : 14-SEP-2010 18:30 Cal File: f0914014.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: form.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vs/Vo)*Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vs	2.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
1 DNPH	2.898	2.885	0.013	23496381		
2 FORMALDEHYDE	3.665	3.598	0.067	4060628	37.0921	14.8

Data File: /chem/hplcf.i/23Nov2010.b/f1123020.d

Date : 23-NOV-2010 14:17

Client ID: LCSD

Instrument: hplcf.i

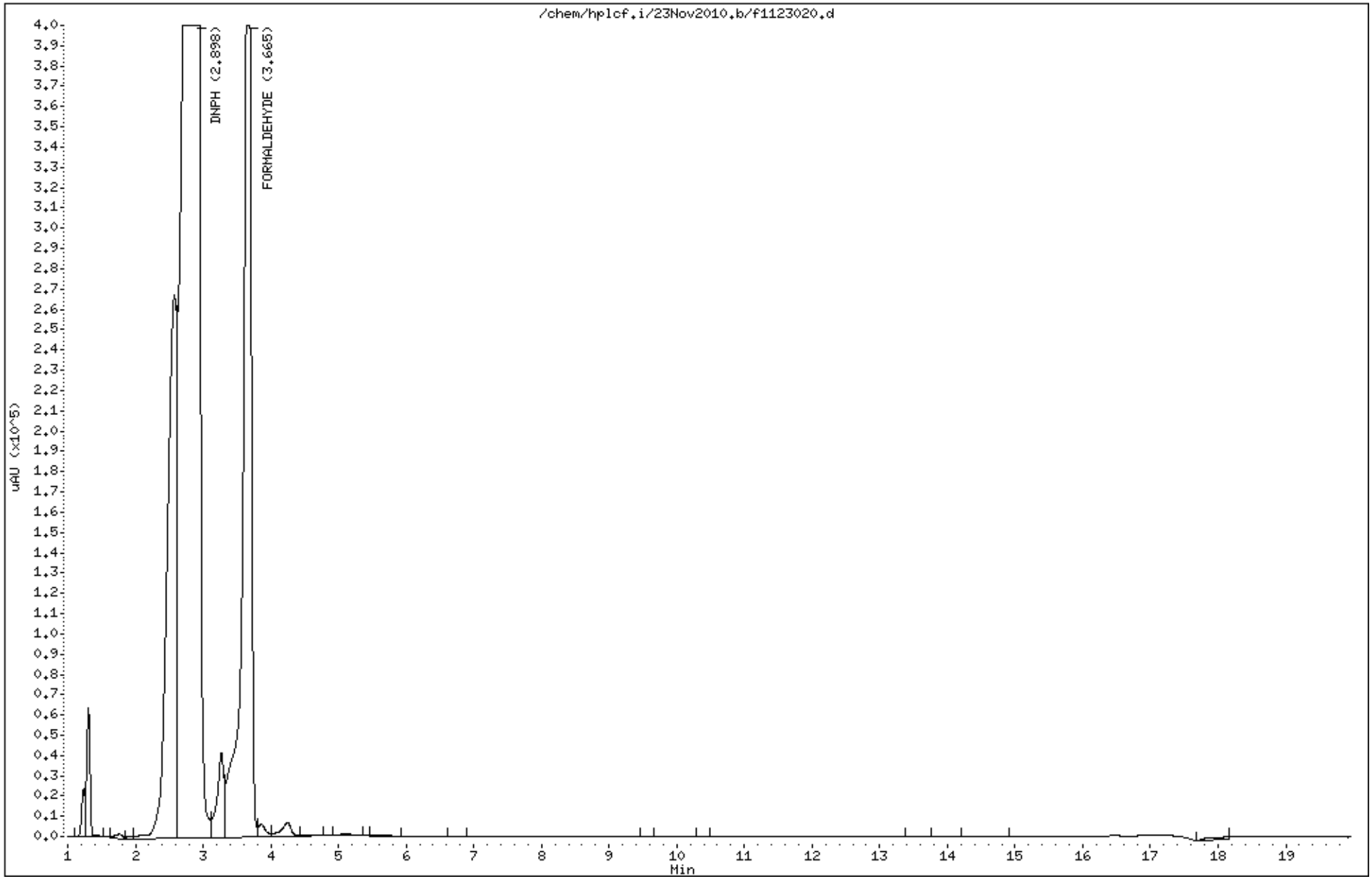
Sample Info: ;1011418A;LCSD

Purge Volume: 5.0

Operator: FM

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



TO-11 Extraction Logbook

@Air Toxics Ltd.

Log Book #: 2010

ATL Work Order # 1011418A
Date Extracted 11/23/10

Final Solvent: ACN
Spike I.D.: 1476-1963-500ng
Spike Witness: CM

Solvent Lot #: DB257
Spiked By: Fm

ATL Fraction	Clients I.D. #		Cartridge type & size	Final Volume (ml)	Spike Amount (ul)	Comments
1011418A BLK	118683		Rad 165 Lot # 10204	2.0	NA	
LCS	4		10048		30	
-01A	5	118683	NA		NA	
-02A	6	4				
-03A	7	5				
-04A	118699	6				
-05A	118700	7				
-06A	~~118701~~	118699				
-07A	2	118700				
-08A	3	118701				
-09A	118715	2				
-10A	6	3				
-11A	7	118715				
-12A	8	6				
-13A	Fm 11/24/10 9	7				
-14A		8				
-15A		9				

Comments:

Fm 11/24/10

Fm 11/24/10
Signed

11/24/10
Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: CARB430/Radiello 165 Pressure: 137 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
X	f1123001	ACN WASH (CCV 1838-41-10ng on 11/22/10)	1.00	CRL	11/23/10	0740	CRL	FT Shift
✓	2	CCV 1838-41-10ng				0801		
✓	3	CCB				0822		
✓	4	TEST Blank -1				0842		lot #8 p3 on 11/22/10 Not above
✓	5	-2				0903		lot # p.99
✓	6	-3				0924		lot # p.3 w/Toluene
✓	7	-4				0945		lot # p 99
✓	8	1838-41-10ng CCV				1006		
✓	9	CCB				1027		
✓	10	10114181A - LabBlank				1048		
✓	11	10114181B - LabBlank				1109		
X	12	10114181A - LCS				1130		low recoveries
X	13	-LCSD				1150		
✓	14	10114181B - LCSD (on 11/23/10)				1211		
✓	15	LCSD				1232		
✓	16	ACN WASH				1253		
✓	17	1838-41-10ng CCV				1314		
✓	18	CCB				1335		
✓	19	10114181A - LCS				1356		
✓	20	-LCSD				1417		
✓	21	CARB430MOL-BLANK				1438		Carb430 extraction with Toluene 11/23/10
✓	22	-1				1458		Spike Std 1838-43-2D ng/5mL spike 200uL
✓	23	-2				1519		
✓	24	-3				1540		
✓	25	-4				1601		
✓	26	-5				1622		Spike Std 1838-36-20ng/5mL spike 200uL
✓	27	-6				1643		
✓	28	-7				1704		

Calculation Check:

File ID: f1123023.d Compound: o-Tolualdehyde Initials: CRL

Sample Amt = Area Counts Sample / RF × DF = (29082 / 36466) × (1.00) = 0.798

Reported Result: ~~0.78~~ 0.798 (on 11/24/10)

Casey Leaf Signed 11/24/10 Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: Carb430/Radiello165 Pressure: 137 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1123029	CARB430MDL-8	1.00	CRL	11/23/10	1725	CRL	spike 20 ul spike std 1838-36-20ng/5ml
✓	30	CCV1838-41-10ng				1746		
✓	31	CCB				1806		
C	32	10111298-06A				1827		C=confirmation Front impinger
C	33	↓ -07A				1848		back impinger
✓	34	10111298-12A				1909		
✓	35	10111418A-05A				1930		
✓	36	↓ -10A				1951		
✓	37	↓ -15A				2012		
✓	38	10111418B-20A				2033		
✓	39	↓ -25A				2054		
✓	40	↓ -30A				2114		
✓	41	10111418A-04A				2135		
✓	42	CCV1838-41-10ng				2156		
✓	43	CCB				2217		
✓	44	10111418A-09A				2238		
✓	45	↓ -14A				2259		
✓	46	10111418B-19A				2320		
✓	47	↓ -24A			↓	2341		
✓	48	↓ -29A	↓		11/24/10	0002		
✓	49	10111418A-01A	10.0			0022		
✓	50	↓ -02A				0043		
✓	51	↓ -03A				0104		
✓	52	↓ -06A				0125		
✓	53	↓ -07A	↓			0146		
✓	54	1838-41-10ng CCV	1.00			0207		
✓	55	CCB	↓			0228		
✓	↓ 56	10111418A-08A	10.0	↓	↓	0249	↓	

Calculation Check:

File ID: _____ Compound: _____ Initials: _____

Sample Amt = Area Counts Sample / RF × DF = ( ) × ( ) = [ ]

Reported Result: [ ]

Casey Leaf 11/24/10

Signed Date

HPLC-F Run Logbook **@Air Toxics Ltd.** **Logbook Book #: 1956**

Method: Carb630/Radical0165 Pressure: 137 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1123057	10114184-11A	10.0	CW	11/24/10	0310	CW	
✓	58	-12A				0330		
✓	59	-13A				0357		
✓	60	10114188-16A				0417		
✓	61	-17A				0433		
✓	62	-19A				0454		
✓	63	-21A				0515		
✓	64	-22A				0536		
✓	65	-23A	↓			0557		
✓	66	1838-41-10ngCCV	1.00			0617		
✓	67	CCB	↓			0638		
✓	68	10114188-26A	10.0			0659		
✓	69	-27A	↓			0720		
✓	70	-28A	↓			0741		
✓	71	ACNWASH	1.00			0802		
✓	72	CCV1838-41-10ng	↓			0823		

Calculation Check:

File ID:_____ Compound:_____ Initials:_____

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(\quad)}{(\quad)} \times (\quad) =$

Reported Result:

CW 11/24/10

Casey Lee Signed

11/24/10 Date

Shipping/ Receiving Documents

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Ausha Scott at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 17 Nov 10 1011418

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725

TO: Air Toxics

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17131

The cost of this analysis will be covered by EH&E Purchase Order # 17131

For EH & E Data Coordinator - URGENT DATA ☐

	SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
01A	118683	Air Passive	Formaldehyde Analysis 11/1/10-11/15/10	13D 22H 10M
02A	118684			
03A	118685			
04A	118686			
05A	118687			∅
06A	118699		11/1/10-11/15/10	13D 23H 15M
07A	118700			
08A	118701			
09A	118702			
10A	118703			∅
11A	118715		11/1/10-11/15/10	13D 23H 20M
12A	118716			
13A	118717			
14A	118718			
15A	118719			∅

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient bbakere eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 11/17/10

Received by: Anne E Wilmot of (company name) AT Date: 11/18/10 09:00

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

CUSTODY SEAL INTACT? Y N NONE TEMP 4.5C

Fed Ex

Page 1 of 2

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 1011418A

Client

Mr. Brian Baker
Environmental Health &
Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Sales Rep: TL

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 12/06/10
Date Completed: 12/6/10
Date Received: 11/18/10
PO#: 17131
Project#: 17131

Total $: $ 1,425.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
01A	118683	Modified TO-11A	11/15/2010	$90.00
02A	118684	Modified TO-11A	11/15/2010	$90.00
03A	118685	Modified TO-11A	11/15/2010	$90.00
04A	118686	Modified TO-11A	11/15/2010	$90.00
05A	118687	Modified TO-11A	NA	$90.00
06A	118699	Modified TO-11A	11/15/2010	$90.00
07A	118700	Modified TO-11A	11/15/2010	$90.00
08A	118701	Modified TO-11A	11/15/2010	$90.00
09A	118702	Modified TO-11A	11/15/2010	$90.00
10A	118703	Modified TO-11A	NA	$90.00
11A	118715	Modified TO-11A	11/15/2010	$90.00
12A	118716	Modified TO-11A	11/15/2010	$90.00
13A	118717	Modified TO-11A	11/15/2010	$90.00
14A	118718	Modified TO-11A	11/15/2010	$90.00
15A	118719	Modified TO-11A	11/15/2010	$90.00
16A	Lab Blank	Modified TO-11A	NA	$0.00
17A	LCS	Modified TO-11A	NA	$0.00
17AA	LCSD	Modified TO-11A	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#: CPSC/14482

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: HPLC

TERMS:

Reporting Method: Modified TO-11A Passive-Radiello 165 (Sh)-Form only

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY Continued

Client

Mr. Brian Baker
Environmental Health &
Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Sales Rep:

Phone

800-825-5343

Fax

781-247-4305

Date Promised:
Date Completed: 12/6/10
Date Received: 11/18/10
PO#: 17131
Project#: 17131

Total $: $ 1,425.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
Misc. Charges	eCVP (15) @ $5.00 each.			$75.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC/14482

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: HPLC

TERMS:

Reporting Method: Modified TO-11A Passive-Radiello 165 (Sh)-Form only

Other Records

Compound List

Modified TO-11A Passive-Radiello 165 (Sh)-Form only

CAS Number	Compound	Detection Limit ug	Type
50-00-0	Formaldehyde	1.0	

DATA REVIEW CHECKLIST

Work Order #: 10116184

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

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

☐	☐	☑	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☐	☐	☑	☐	☐	☐	Hold time is met for all samples
		☑	☐	☐	☐	Appropriate data qualifier flags are applied
		☑	☐	☐	☐	Manual integrations for samples and QC are properly documented
☐	☐	☑	☐		☐	Samples analyzed within the project or method specific clock
		☑	☐			Retention times have been verified
☐	☐	☑	☐		☐	Appropriate ICAL(s) included, %RSD Recalculation
		☑	☐		☐	At least one result per sample is verified against the target quant sheets/raw data
☐	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		☑	☐			TICs resemble reference spectra
		☐	☐			TICs between duplicate samples are consistent
☐	☐	☑	☐	☐	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑	☐			Special units for all samples in the final report are correctly calculated
		☑	☐			Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
				☐		Verify sample id's vs. chain of custody
☐	☐	☑				Date MDL(s) performed per instrument(s) 10/19/10
☐	☐	☐				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☐				Verify receipt pressures
☐	☐	☐				Verify canister ID #'s
		☑	☐	☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☑	☐	☐		Final PDF report reviewed for correctness

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

A/R: LCS / LCSD

ug + ug/m3

T/Q:

A_1/A_2 (Analytical Review/Date)	W/T (Write-up/Tech Review/Date)	R* (Report Review/Date)	Q (QA Review/Date)
A_1:	W: 12/6/10	R:	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.
* Report Review is completed for DoD & Client Specific projects only.

Not Applicable