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 #: 1010294B

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	10/28/10
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1010294B

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. #**	17314
FAX:	781-247-4305	**PROJECT #**	17314
DATE RECEIVED:	10/14/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	10/27/2010		

FRACTION #	NAME	TEST
07A	115917	Modified TO-11A
08A	115918	Modified TO-11A
09A	115920	Modified TO-11A
10A	115921	Modified TO-11A
11A	Lab Blank	Modified TO-11A
12A	LCS	Modified TO-11A
12AA	LCSD	Modified TO-11A

CERTIFIED BY: Linda L. Truman DATE: 10/27/10

Laboratory Director

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

LABORATORY NARRATIVE
Modified TO-11A
Environmental Health & Engineering, Inc.
Workorder# 1010294B

Four Radiello 165 (Aldehydes) samples were received on October 14, 2010. The laboratory performed analysis via modified Method TO-11A using reverse phase High Pressure Liquid Chromatography (HPLC) with an Ultraviolet (UV) Detector. The method involves eluting the sorbent tubes with acetonitrile using a gravity feed technique. Method modifications taken to run these samples include:

Requirement	***TO-11A***	***ATL Modifications***
ACN Purity Check	Contribution of analytes from ACN determined as described Sections 9.1.1 and 9.1.2 of Compendium TO-11A.	Total contribution of analytes from ACN and cartridge combined is determined.
Initial Calibration Curve (ICAL)	Multi-point using linear regression performed every 6 months; r^2 > 0.999	Multi-point using average Response Factor; % RSD </= 10 %. Re-calibration if daily cal. fails, major maintenance, or column change. Linear regression is performed when requested.
Blank Subtraction	Average blank concentrations calculated. Blank value subtracted from sample result.	One Lab Blank is analyzed per batch; no blank subtraction performed on samples.

Receiving Notes

There were no receiving discrepancies.Sample collection date was not provided on the Chain of Custody for samples 115917, 115918, 115920, and 115921. The client was contacted and a date of 10/13/10 was provided.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
115917	1010294B-07A	10/13/2010	10/14/2010	10/22/2010	9	10/27/2010	5	Good
115918	1010294B-08A	10/13/2010	10/14/2010	10/22/2010	9	10/27/2010	5	Good
115920	1010294B-09A	10/13/2010	10/14/2010	10/22/2010	9	10/26/2010	4	Good
115921	1010294B-10A	10/13/2010	10/14/2010	10/22/2010	9	10/26/2010	4	Good
Lab Blank	1010294B-11A	NA	NA	10/22/2010	NA	10/26/2010	4	Good
LCS	1010294B-12A	NA	NA	10/22/2010	NA	10/26/2010	4	Good
LCSD	1010294B-12AA	NA	NA	10/22/2010	NA	10/26/2010	4	Good

Sample Results and Raw Data

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Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 115917

Lab ID#: 1010294B-07A

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	10	43

Air Toxics LTD.
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Client Sample ID: 115917

Lab ID#: 1010294B-07A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1027007**	**Date of Collection: 10/13/10**	
Dil. Factor:	**10.0**	**Date of Analysis: 10/27/10 03:06 PM**	
		Date of Extraction: 10/22/10	

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	10	43

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/27Oct2010.b/f1027007.d
Lab Smp Id: 1010294B-07A Client Smp ID: 10
Inj Date : 27-OCT-2010 15:06
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B-07A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/27Oct2010.b/F10D0914.m
Meth Date : 27-Oct-2010 17:12 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	2.934	2.936	-0.002	2874008		
2 FORMALDEHYDE	3.740	3.736	0.004	1175979	10.7421	43.0

Data File: /chem/hplcf.i/27Oct2010.b/f1027007.d

Date : 27-OCT-2010 15:06

Client ID: 10

Instrument: hplcf.i

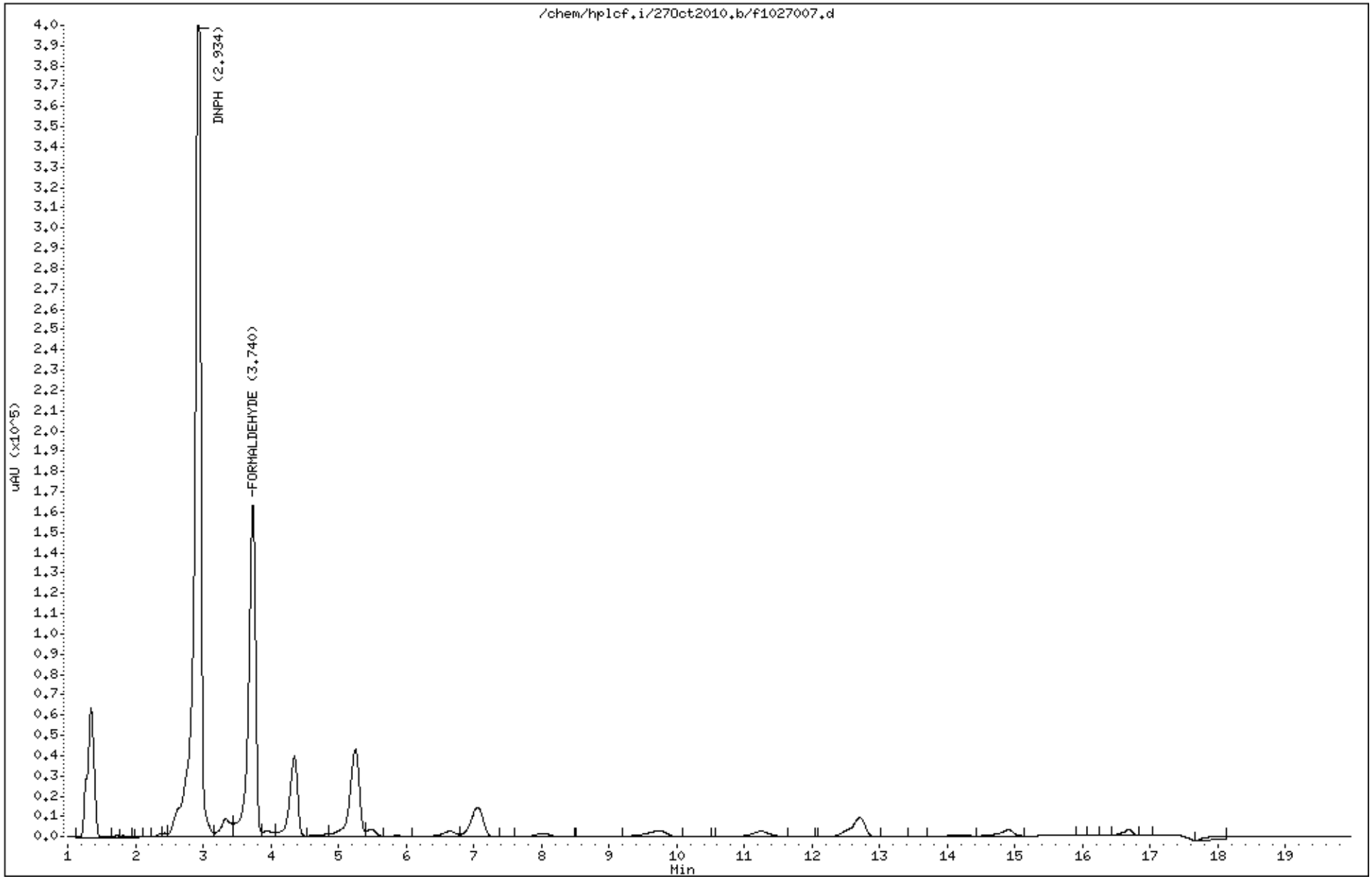
Sample Info: ;1010294B-07A;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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Laboratory Services Since 1989

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 115918

Lab ID#: 1010294B-08A

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	10	43

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 115918

Lab ID#: 1010294B-08A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1027008**	**Date of Collection:**	**10/13/10**
Dil. Factor:	**10.0**	**Date of Analysis:**	**10/27/10 03:26 PM**
		Date of Extraction:	**10/22/10**

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	10	43

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/27Oct2010.b/f1027008.d
Lab Smp Id: 1010294B-08A Client Smp ID: 10
Inj Date : 27-OCT-2010 15:26
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B-08A;10
Misc Info :
Comment :
Method : /chem/hplcf.i/27Oct2010.b/F10D0914.m
Meth Date : 27-Oct-2010 17:12 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	2.914	2.936	-0.022	2846601		
2 FORMALDEHYDE	3.714	3.736	-0.022	1188381	10.8553	43.4

Data File: /chem/hplcf.i/27Oct2010.b/f1027008.d

Date : 27-OCT-2010 15:26

Client ID: 10

Instrument: hplcf.i

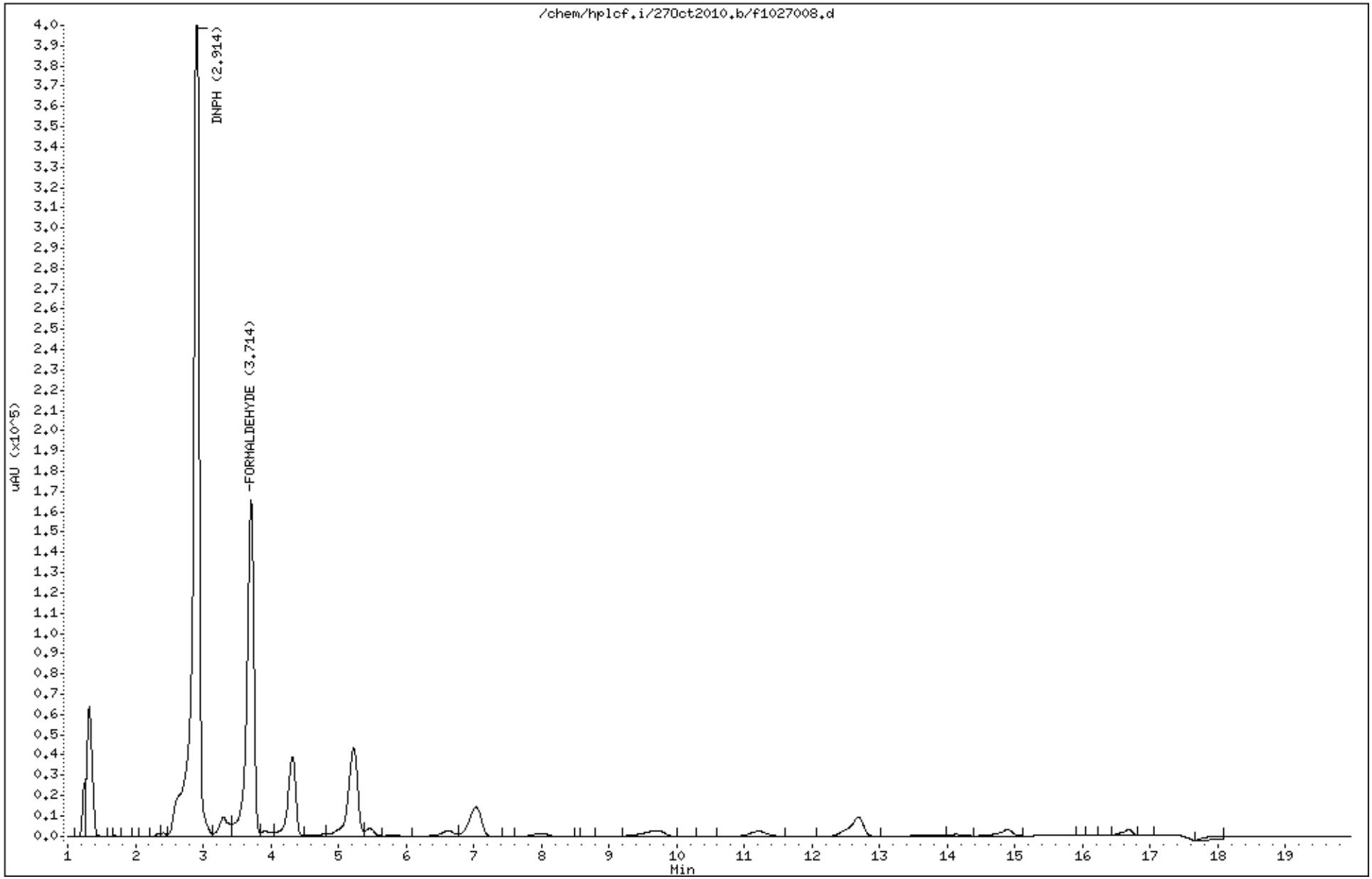
Sample Info: ;1010294B-08A;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 115920

Lab ID#: 1010294B-09A

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	1.0	2.5

Air Toxics LTD.
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Client Sample ID: 115920

Lab ID#: 1010294B-09A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1026039**	**Date of Collection: 10/13/10**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/10 09:34 PM**	
		Date of Extraction: 10/22/10	

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	1.0	2.5

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026039.d
Lab Smp Id: 1010294B-09A
Inj Date : 26-OCT-2010 21:34
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B-09A;
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	2.926	2.921	0.005	22773271		
2 FORMALDEHYDE	3.733	3.728	0.005	684712	6.25455	2.50

Data File: /chem/hplcf.i/26Oct2010.b/f1026039.d

Date : 26-OCT-2010 21:34

Client ID:

Instrument: hplcf.i

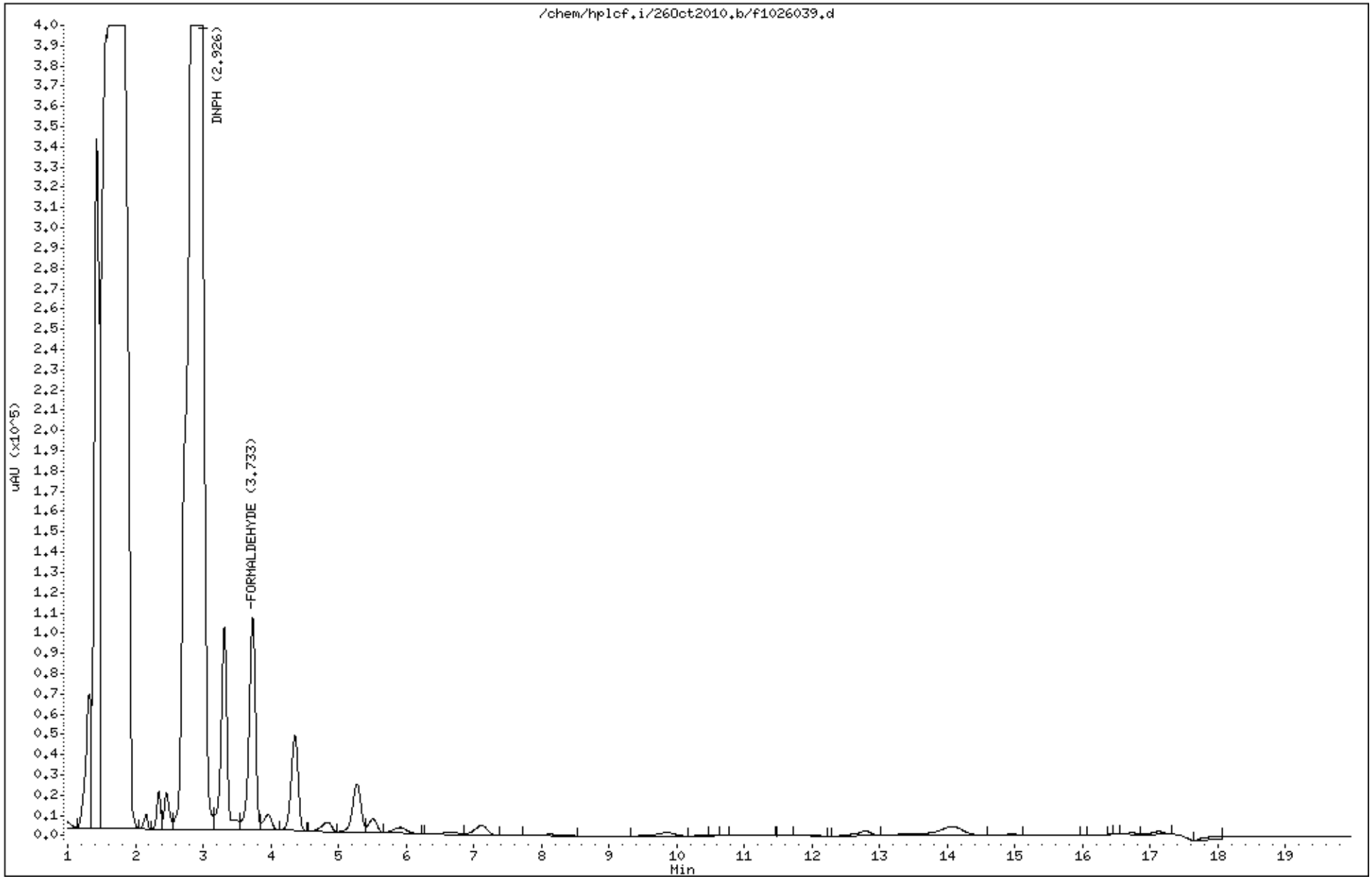
Sample Info: ;1010294B-09A;

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 115921

Lab ID#: 1010294B-10A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 115921

Lab ID#: 1010294B-10A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1026040**	**Date of Collection: 10/13/10**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/10 09:55 PM**	
		Date of Extraction: 10/22/10	

Compound	Rpt. Limit (ug)	Amount (ug)
Formaldehyde	1.0	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/26Oct2010.b/f1026040.d
Lab Smp Id: 1010294B-10A
Inj Date : 26-OCT-2010 21:55
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B-10A;
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	2.931	2.921	0.010	32158602		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/26Oct2010.b/f1026040.d

Date : 26-OCT-2010 21:55

Client ID:

Instrument: hplcf.i

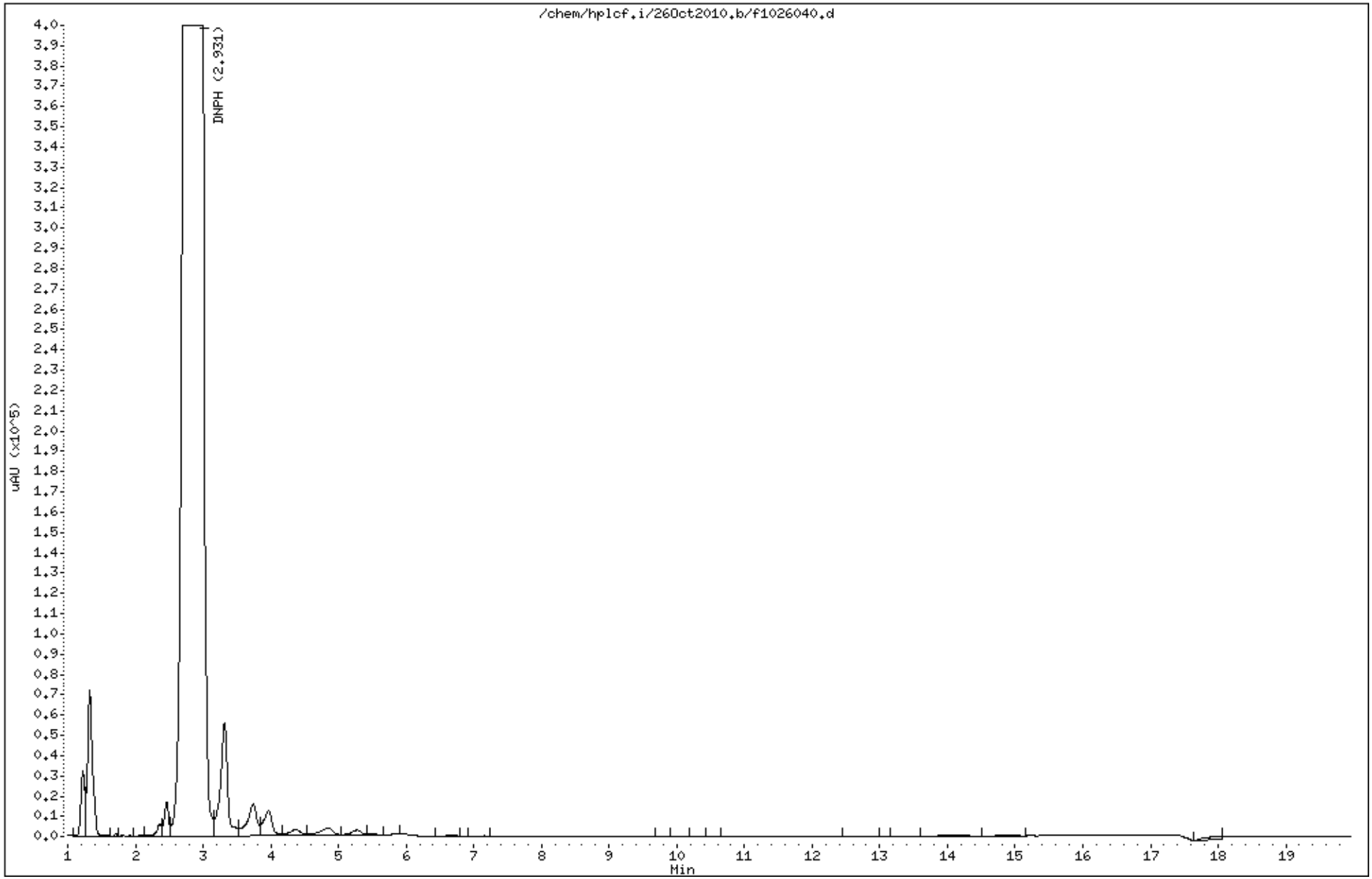
Sample Info: ;1010294B-10A;

Purge Volume: 5.0

Operator: CRL

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#: 1010294B-11A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1026026**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/10 05:03 PM**	
		Date of Extraction: 10/22/10	

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

Container Type: NA - Not Applicable

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026026.d
Lab Smp Id: 1010294B Client Smp ID: Lab Blank
Inj Date : 26-OCT-2010 17:03
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B;Lab Blank
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	2.938	2.921	0.017	32925713		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/26Oct2010.b/f1026026.d

Date : 26-OCT-2010 17:03

Client ID: Lab Blank

Instrument: hplcf.i

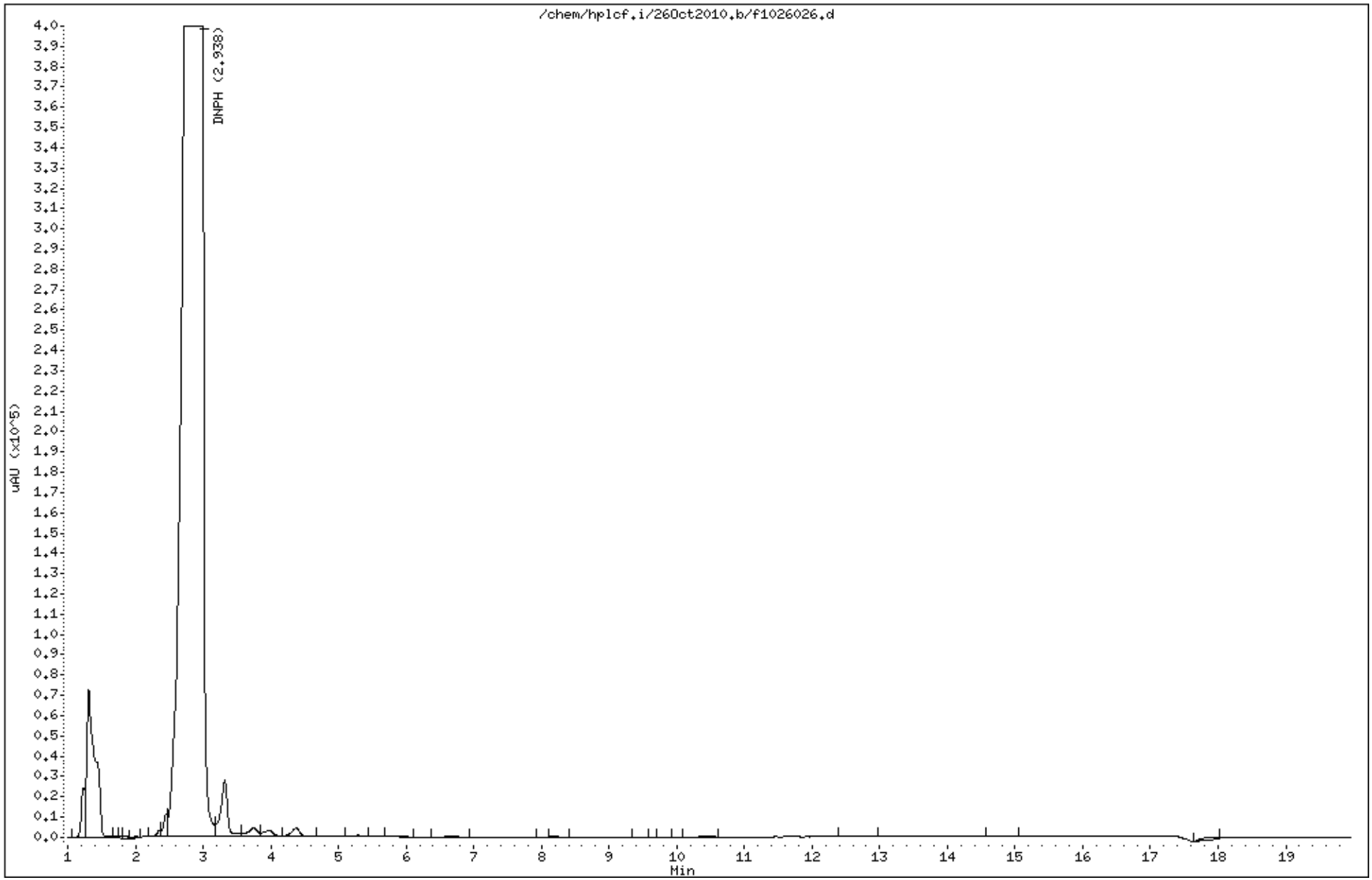
Sample Info: ;1010294B;Lab Blank

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: f1026028.d & f1026027.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 10/26/10 & 10/26/10

CAS Number	Compound	Original Amount	Flags	Duplicate Amount	Flags	RPD	Result Less Than 5X RL
50-00-0	Formaldehyde	101		101		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
✓	f0914008	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: f0914024.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 Leet 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
✓	fb0914036	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 = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(\quad)}{(\quad)} \times (\quad) =$

Reported Result:

CRL 9/15/10

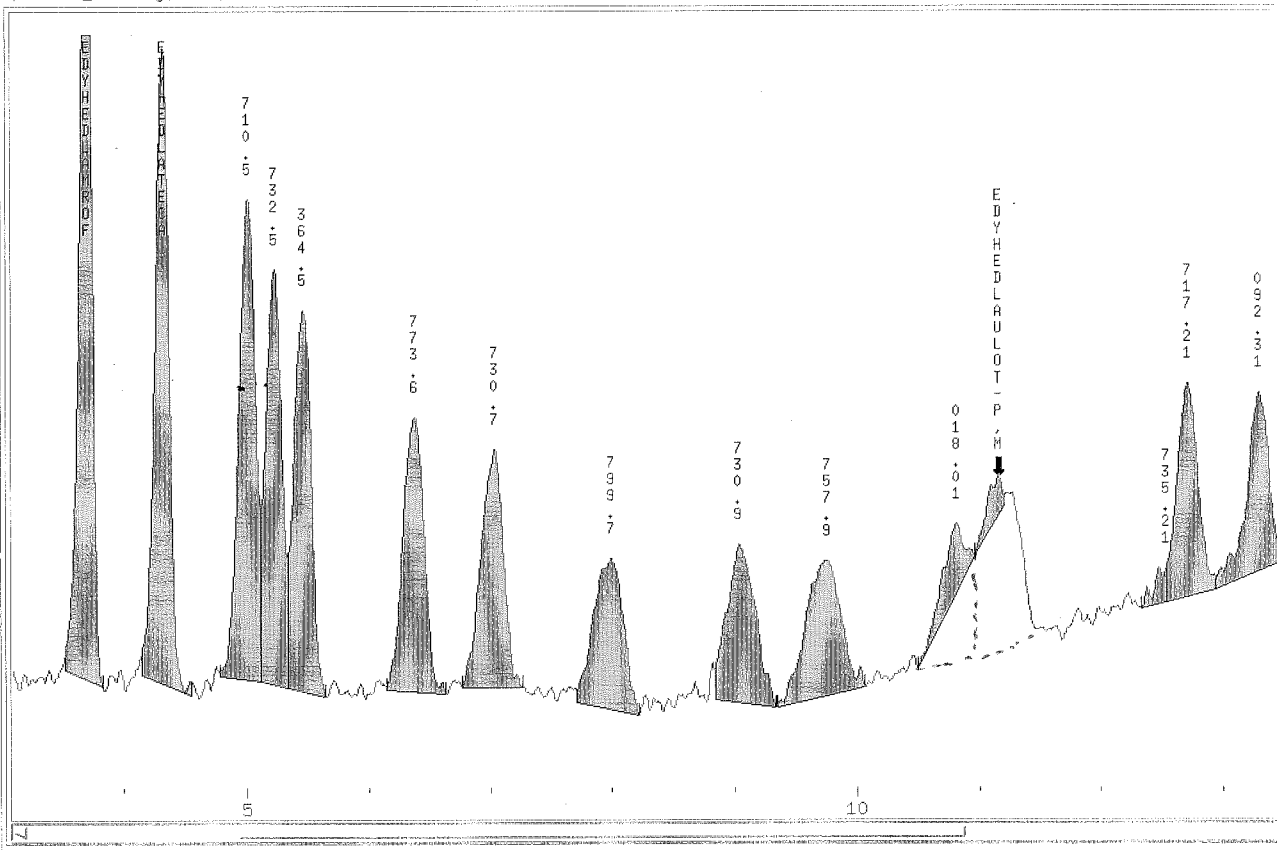
Casey Leaf
Signed

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



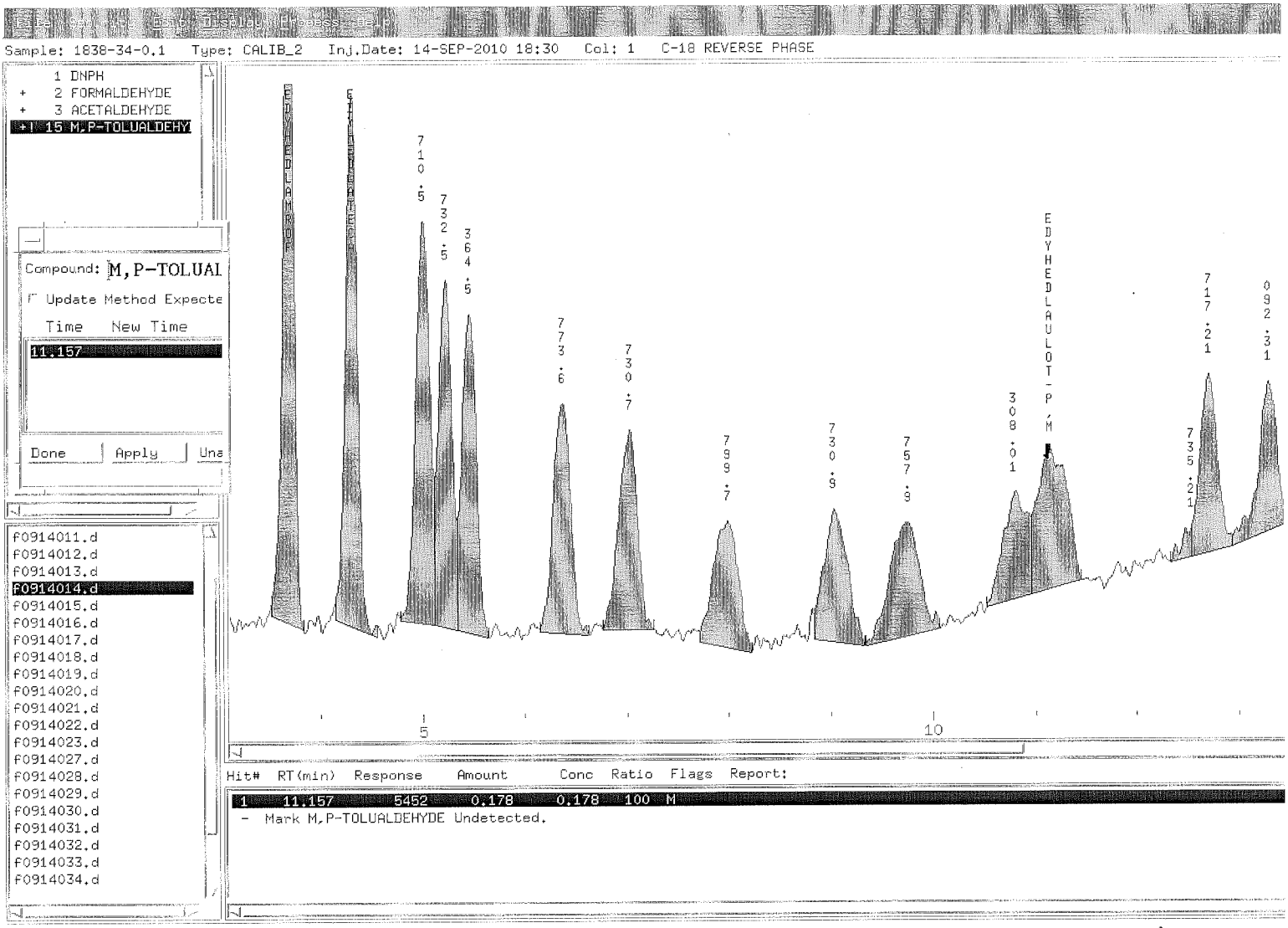
f0914011.d
f0914012.d
f0914013.d
f0914014.d
f0914015.d
f0914016.d
f0914017.d
f0914018.d
f0914019.d
f0914020.d
f0914021.d
f0914022.d
f0914023.d
f0914027.d
f0914028.d
f0914029.d
f0914030.d
f0914031.d
f0914032.d
f0914033.d
f0914034.d

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

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

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

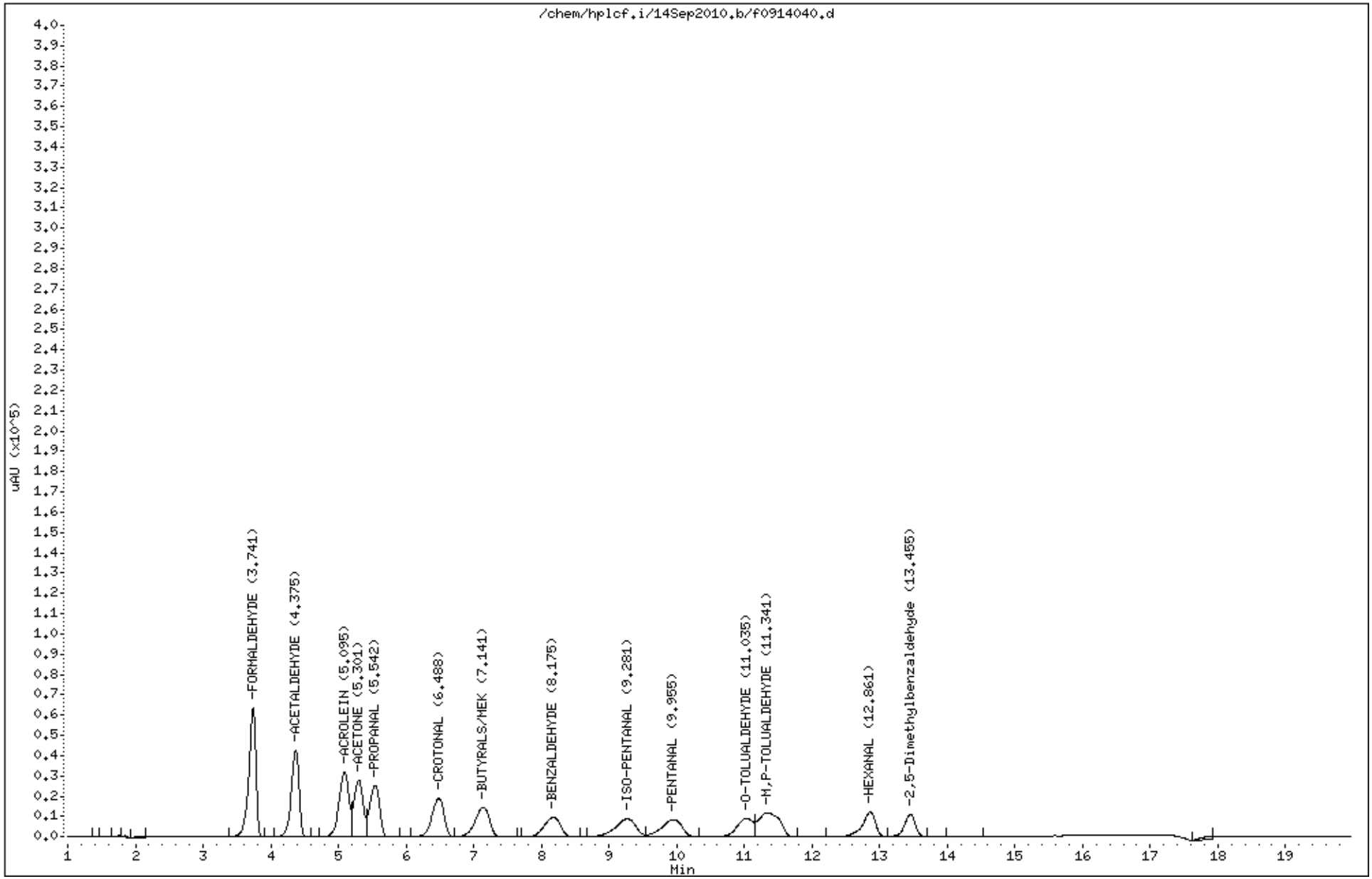
Sample Info: ;1838-36-4.0;LCS

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

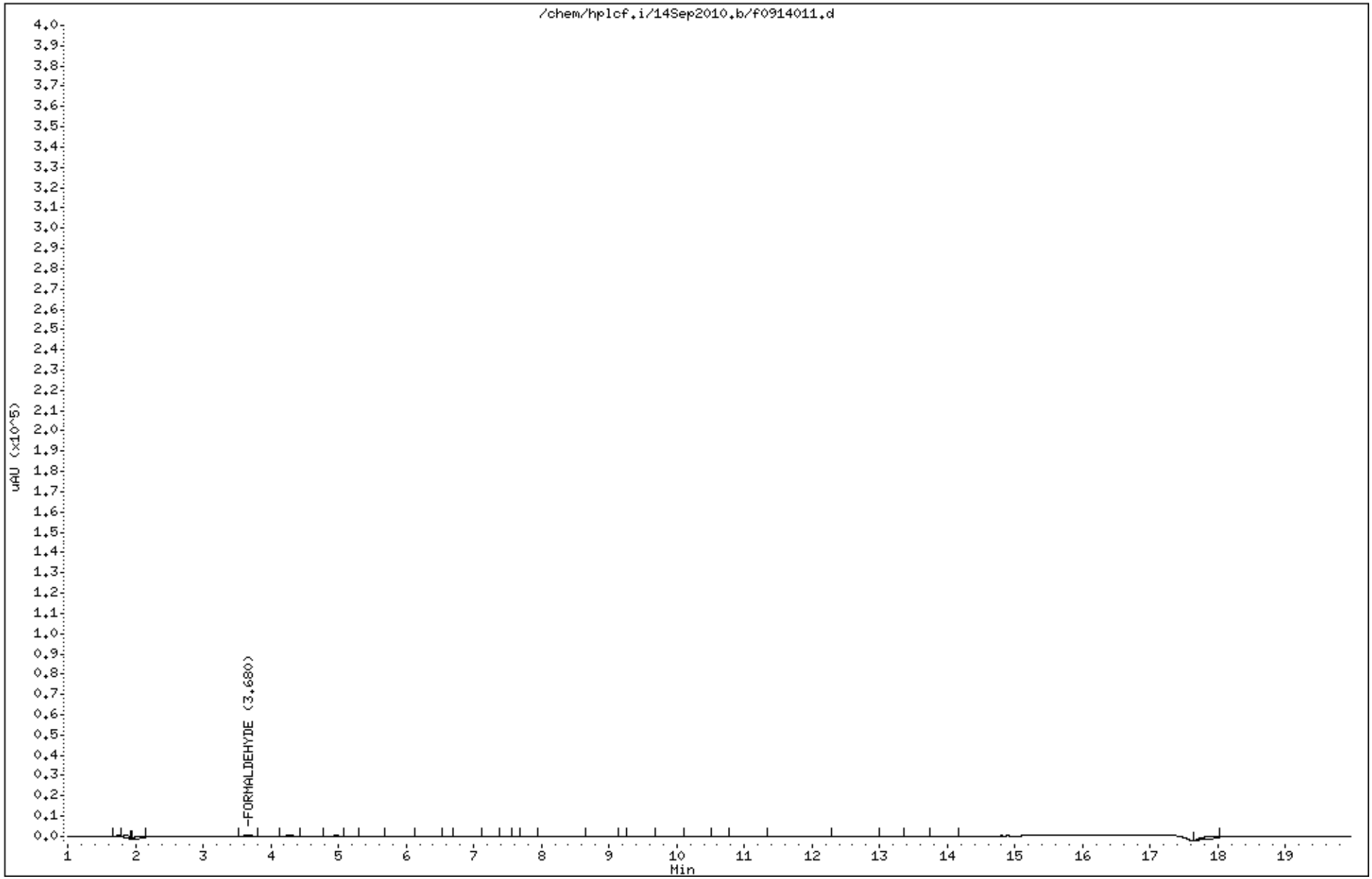
Sample Info: ;1838-34-0.05;1

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

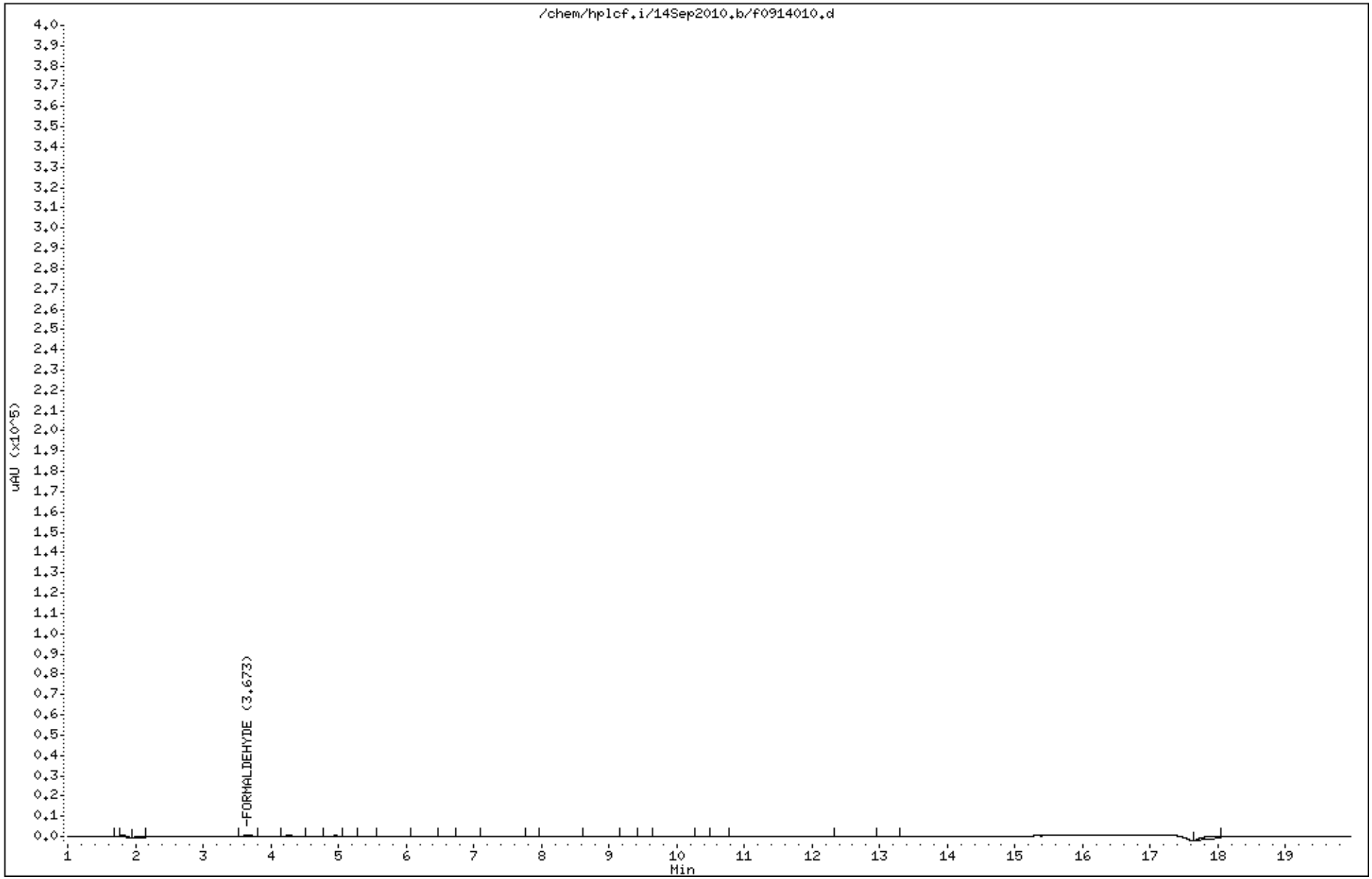
Sample Info: ;1838-34-0.05;1

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

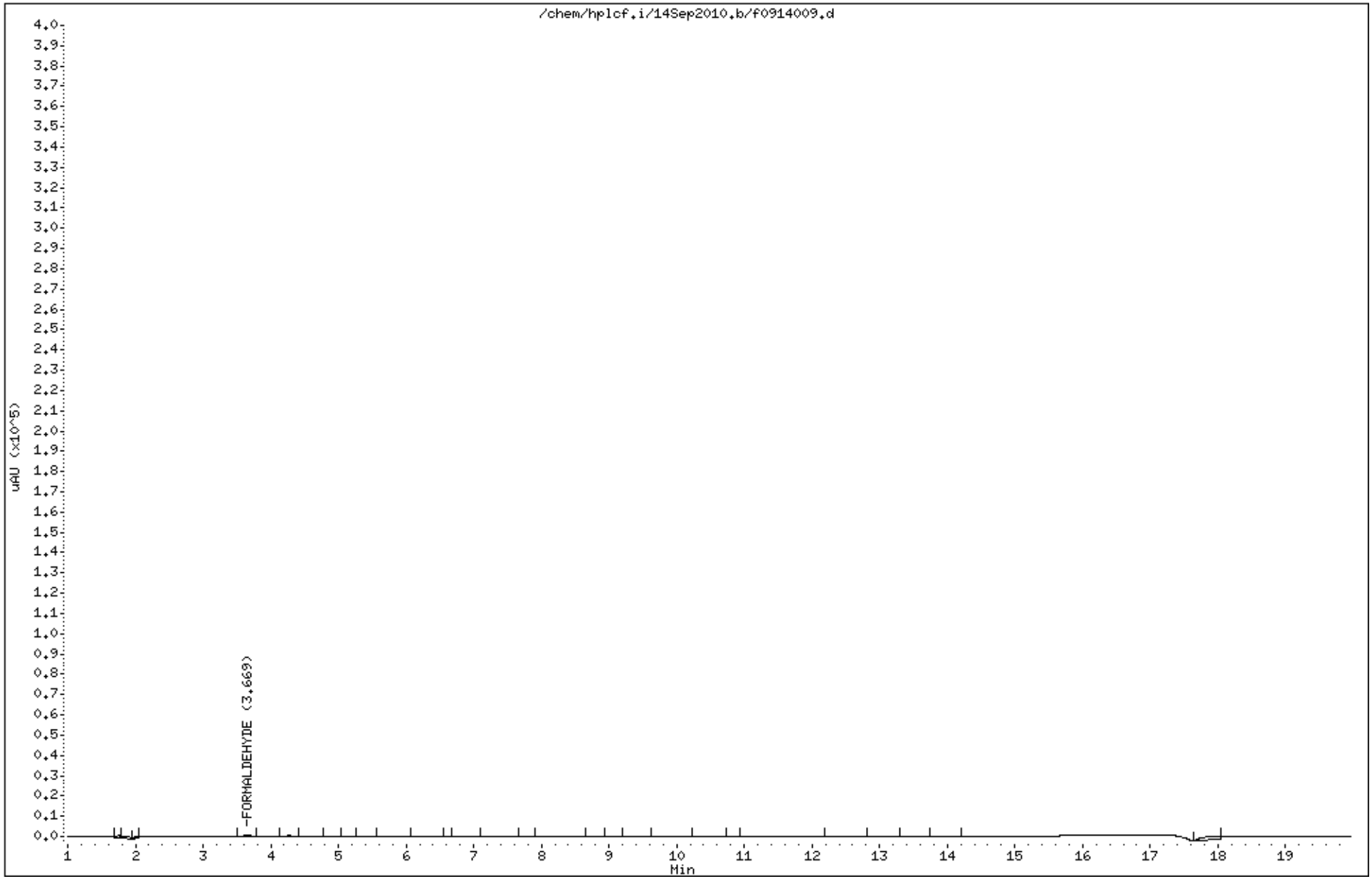
Sample Info: ;1838-34-0.05;1

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

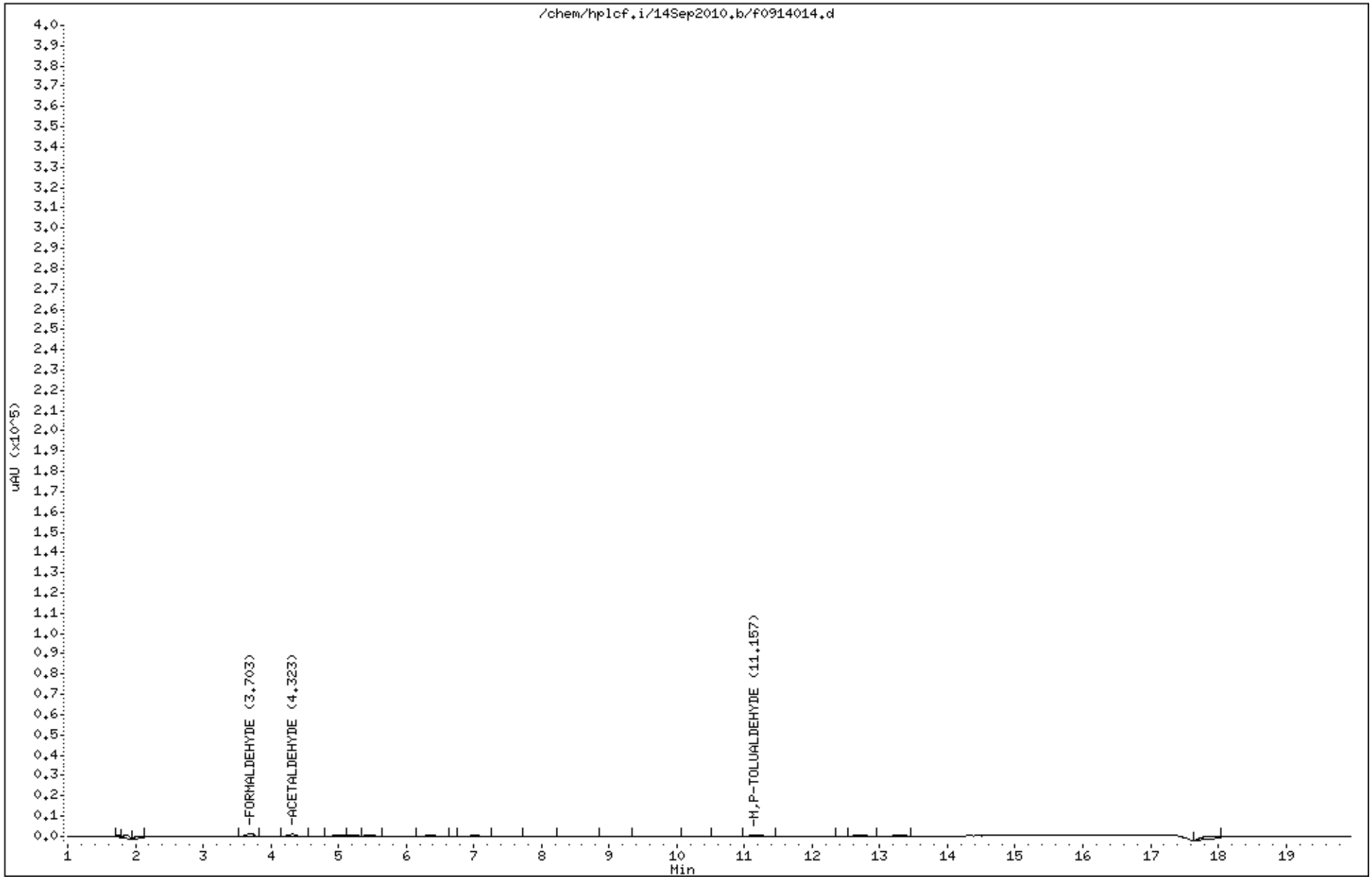
Sample Info: ;1838-34-0.1;2

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

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (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

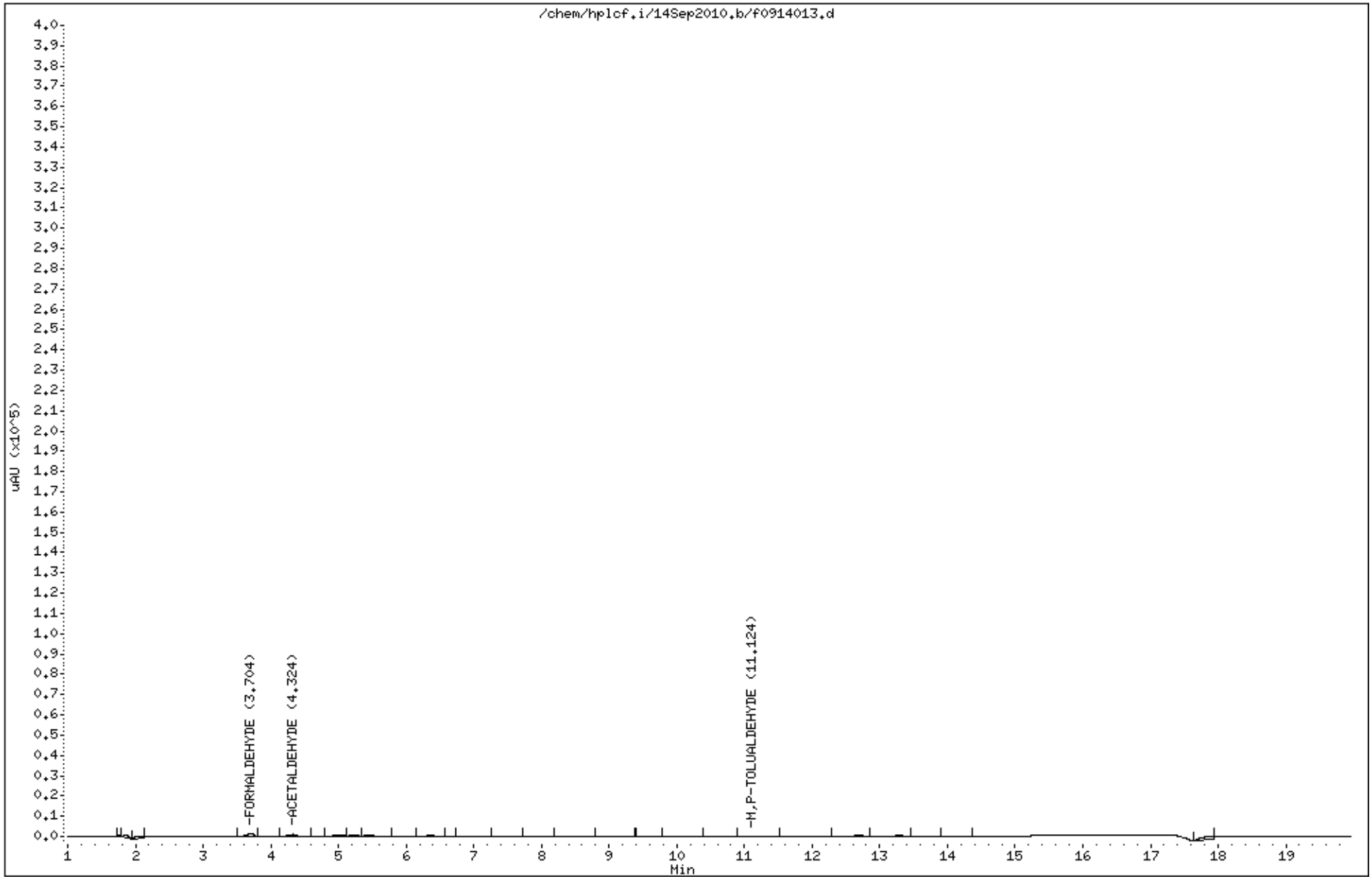
Sample Info: ;1838-34-0.1;2

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

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (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

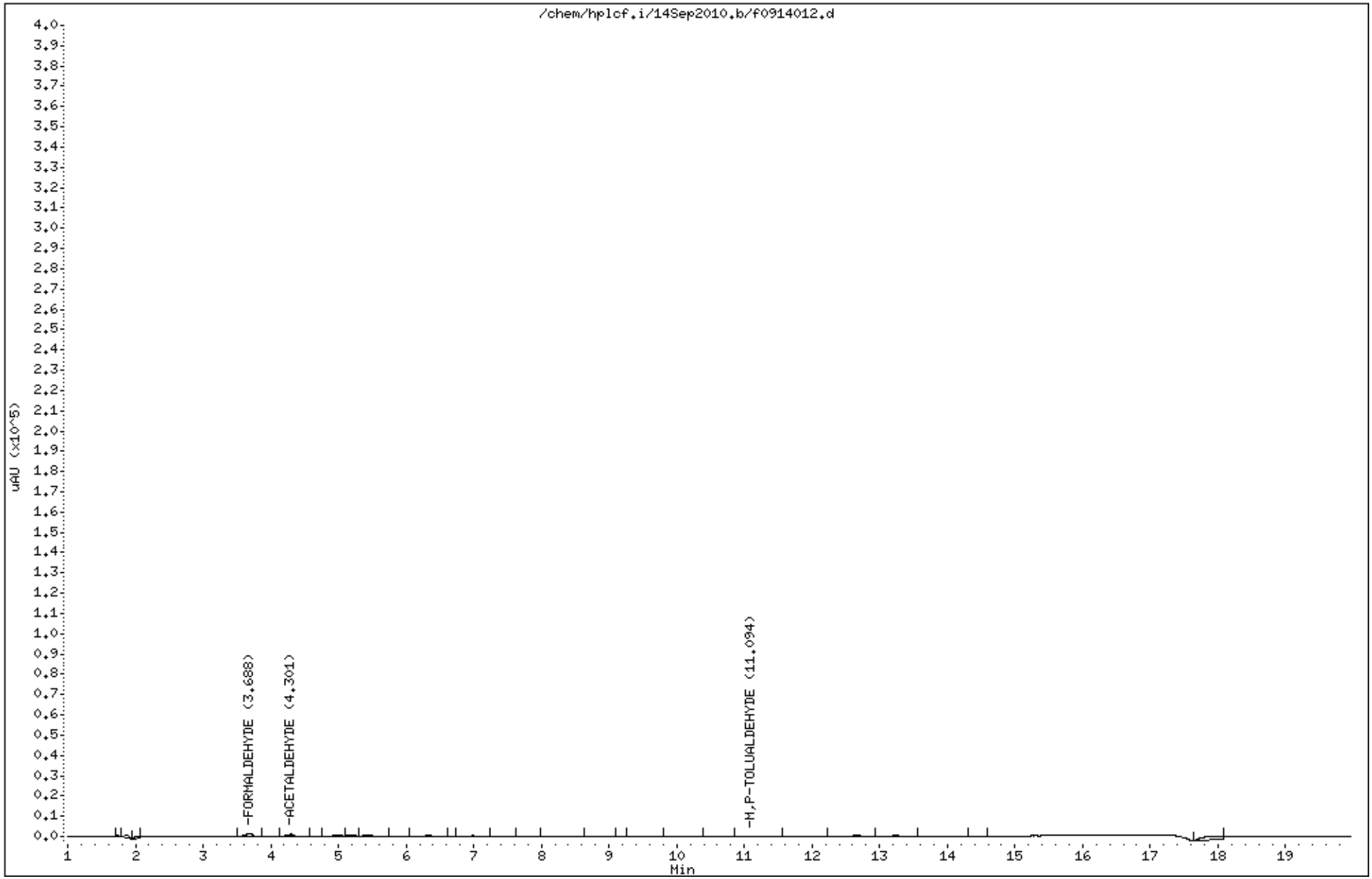
Sample Info: ;1838-34-0.1;2

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

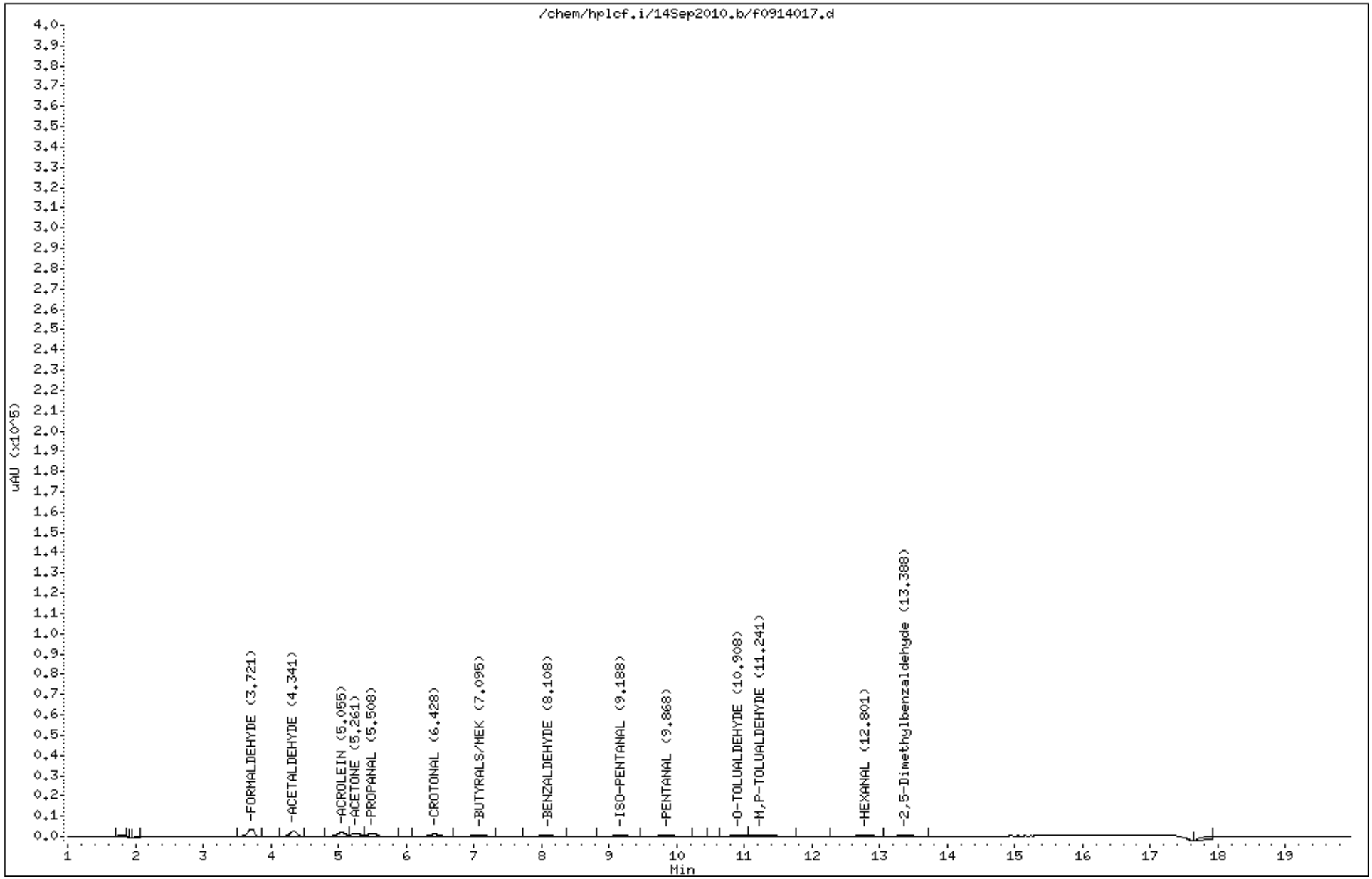
Sample Info: ;1838-34-0.25;3

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

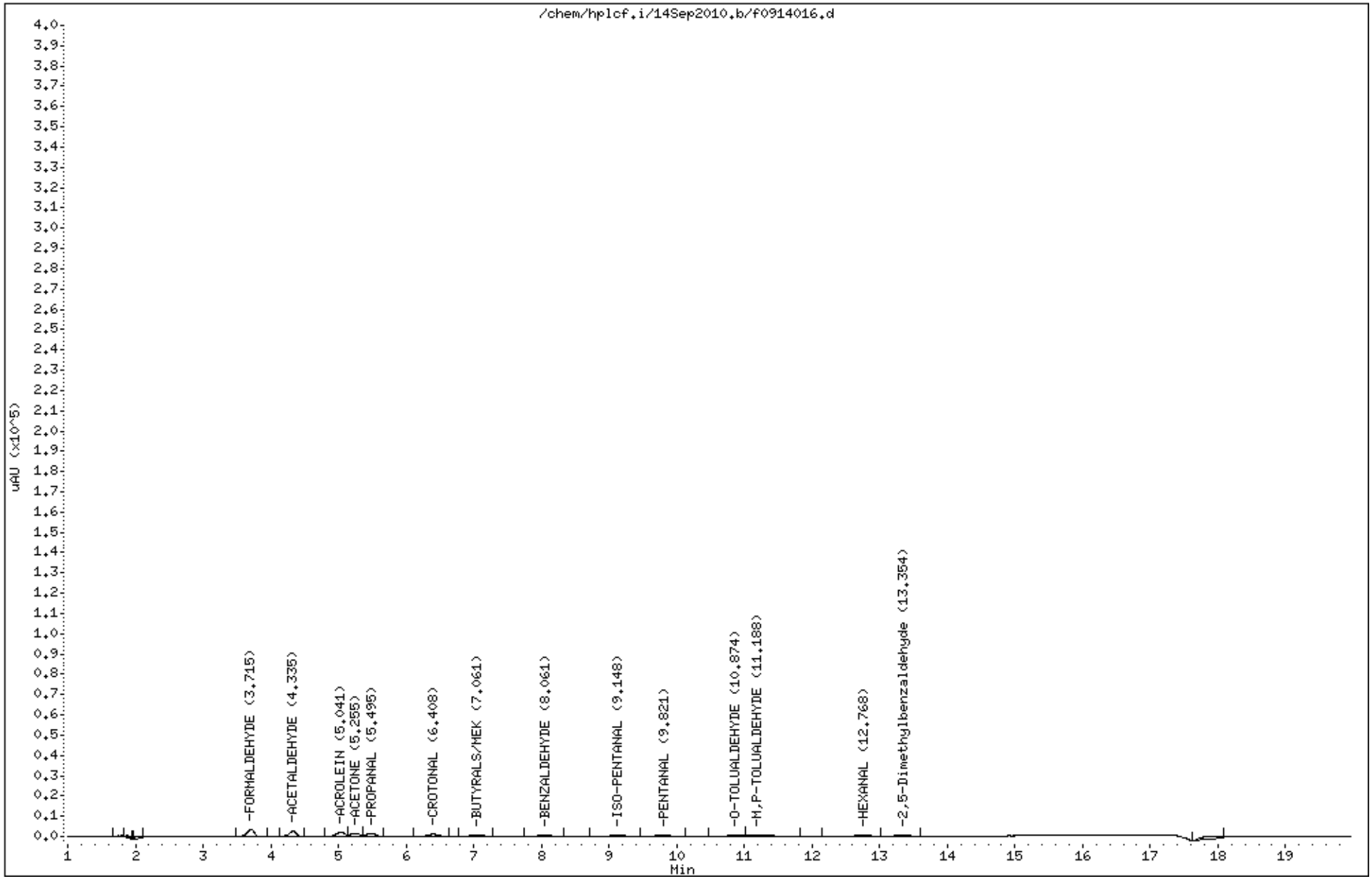
Sample Info: ;1838-34-0.25;3

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

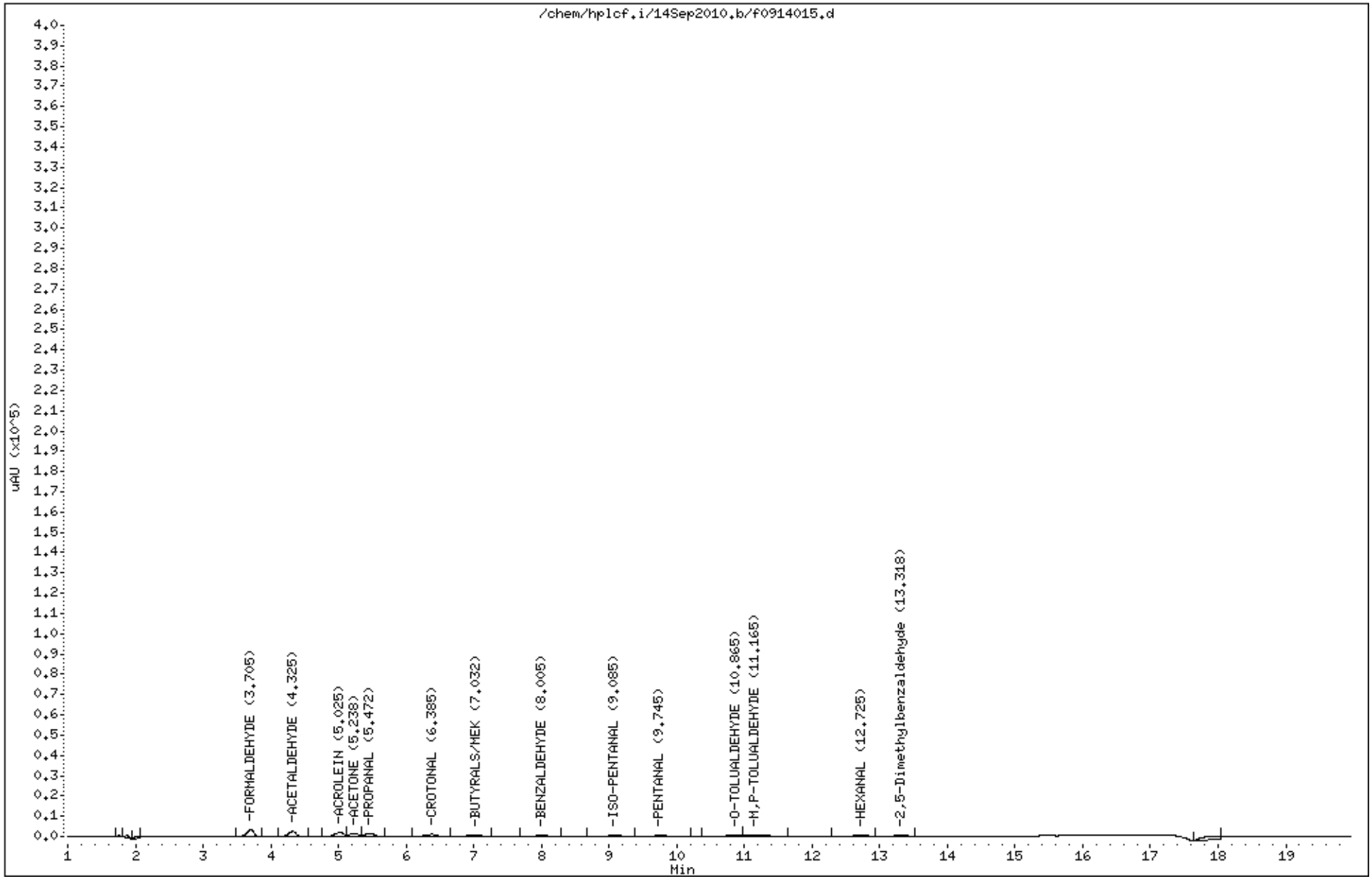
Sample Info: ;1838-34-0.25;3

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

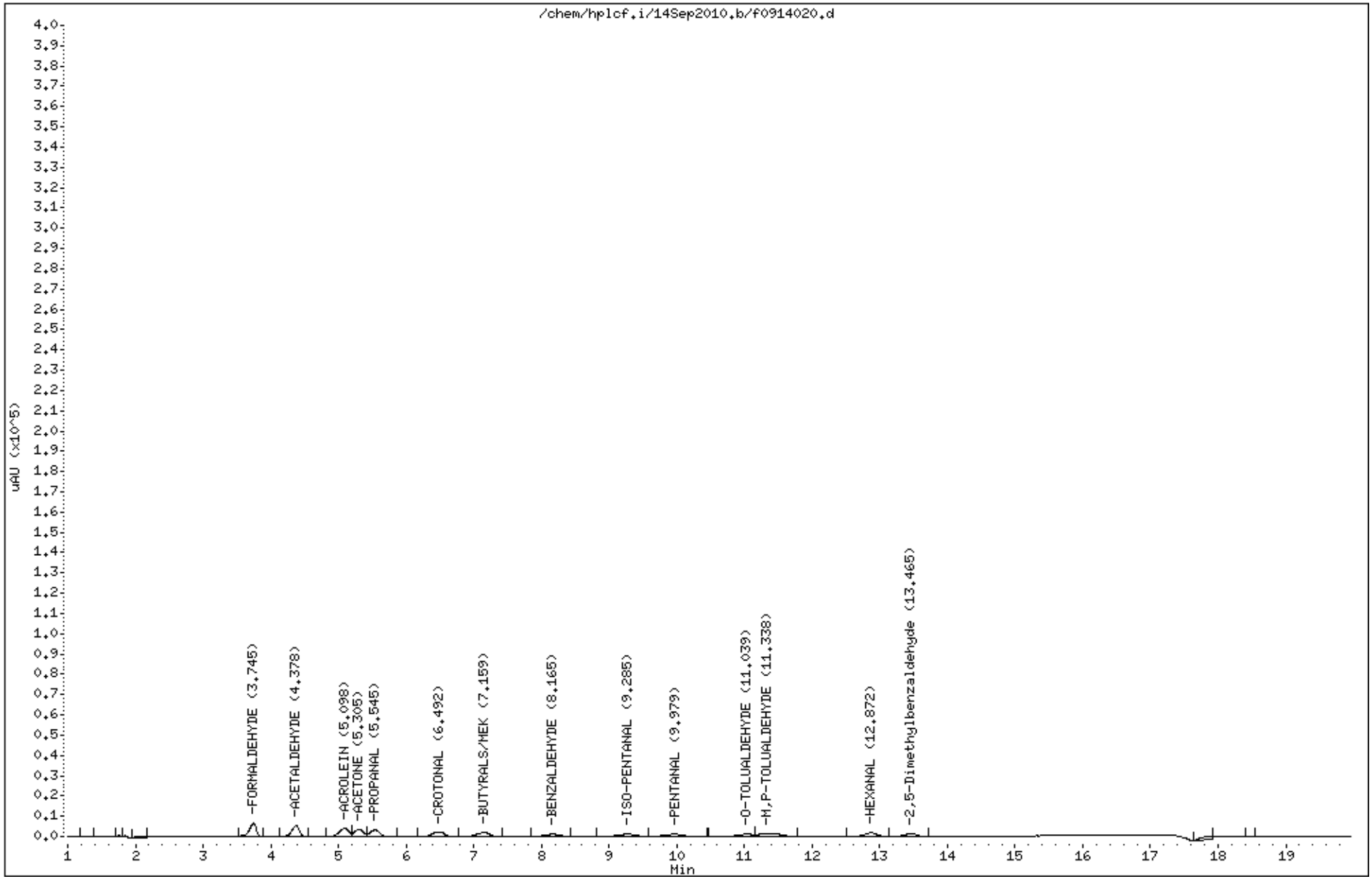
Sample Info: ;1838-34-0.5;4

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

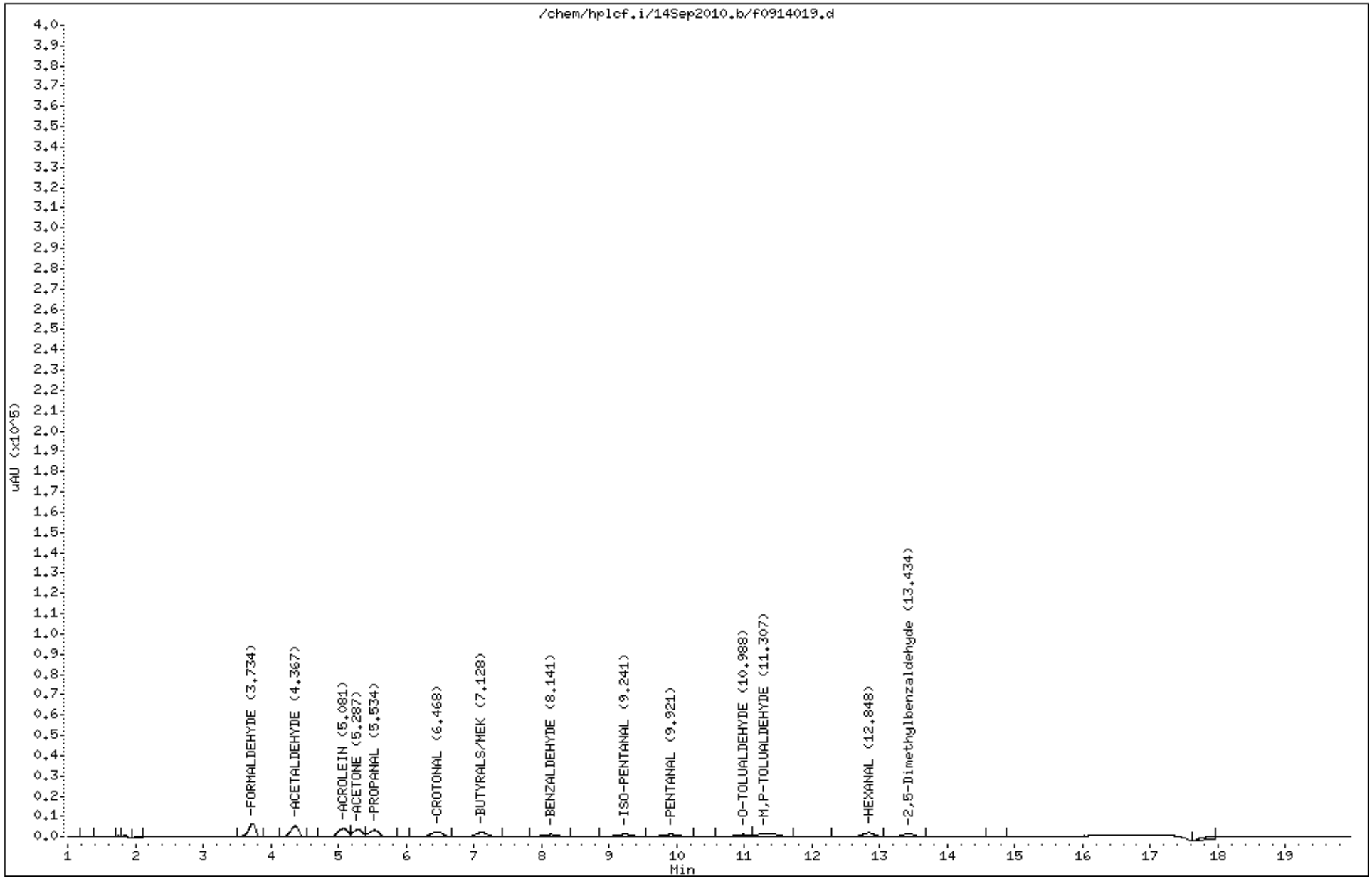
Sample Info: ;1838-34-0.5;4

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

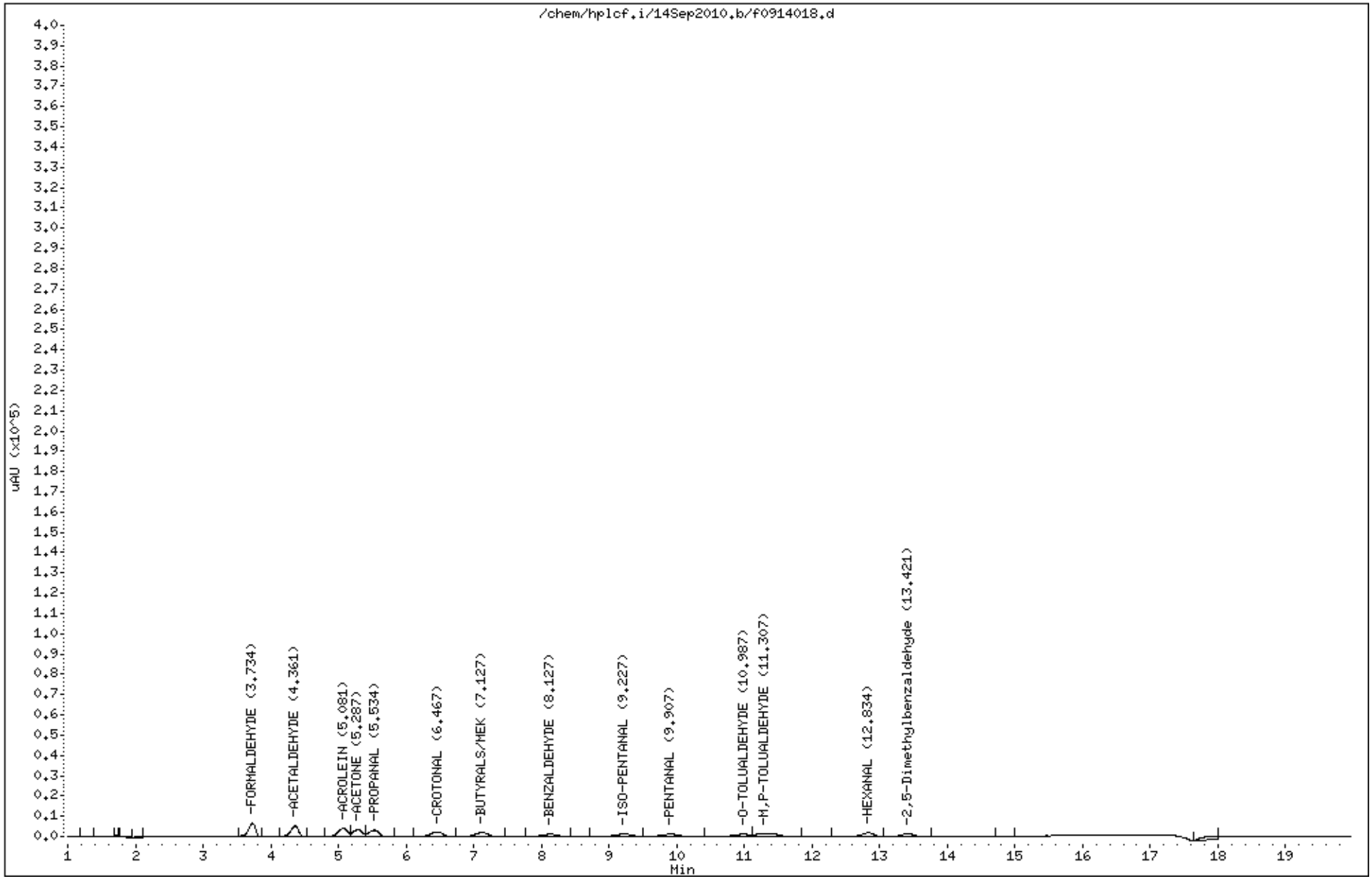
Sample Info: ;1838-34-0.5;4

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

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (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

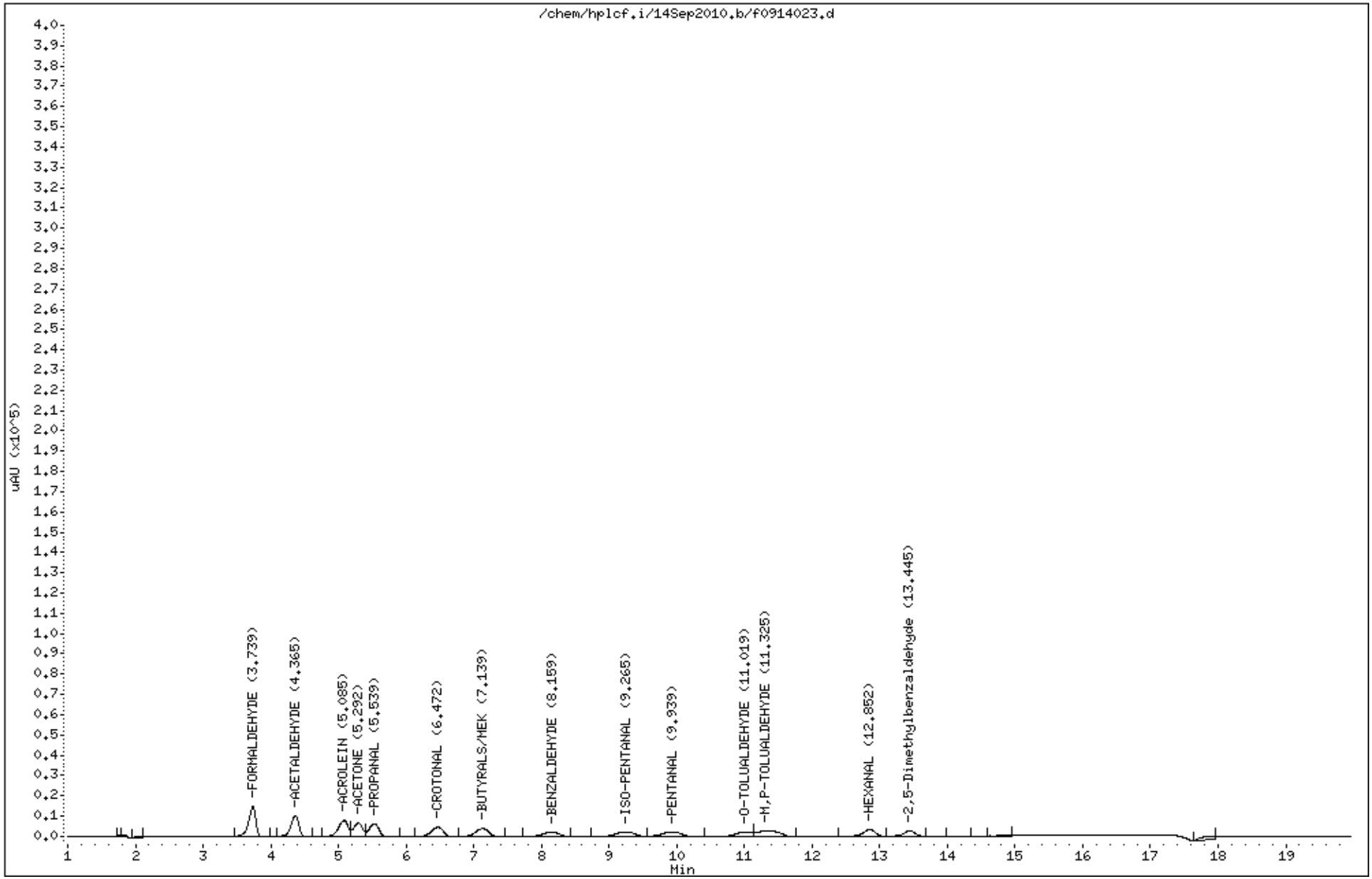
Sample Info: ;1838-34-1.0;5

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

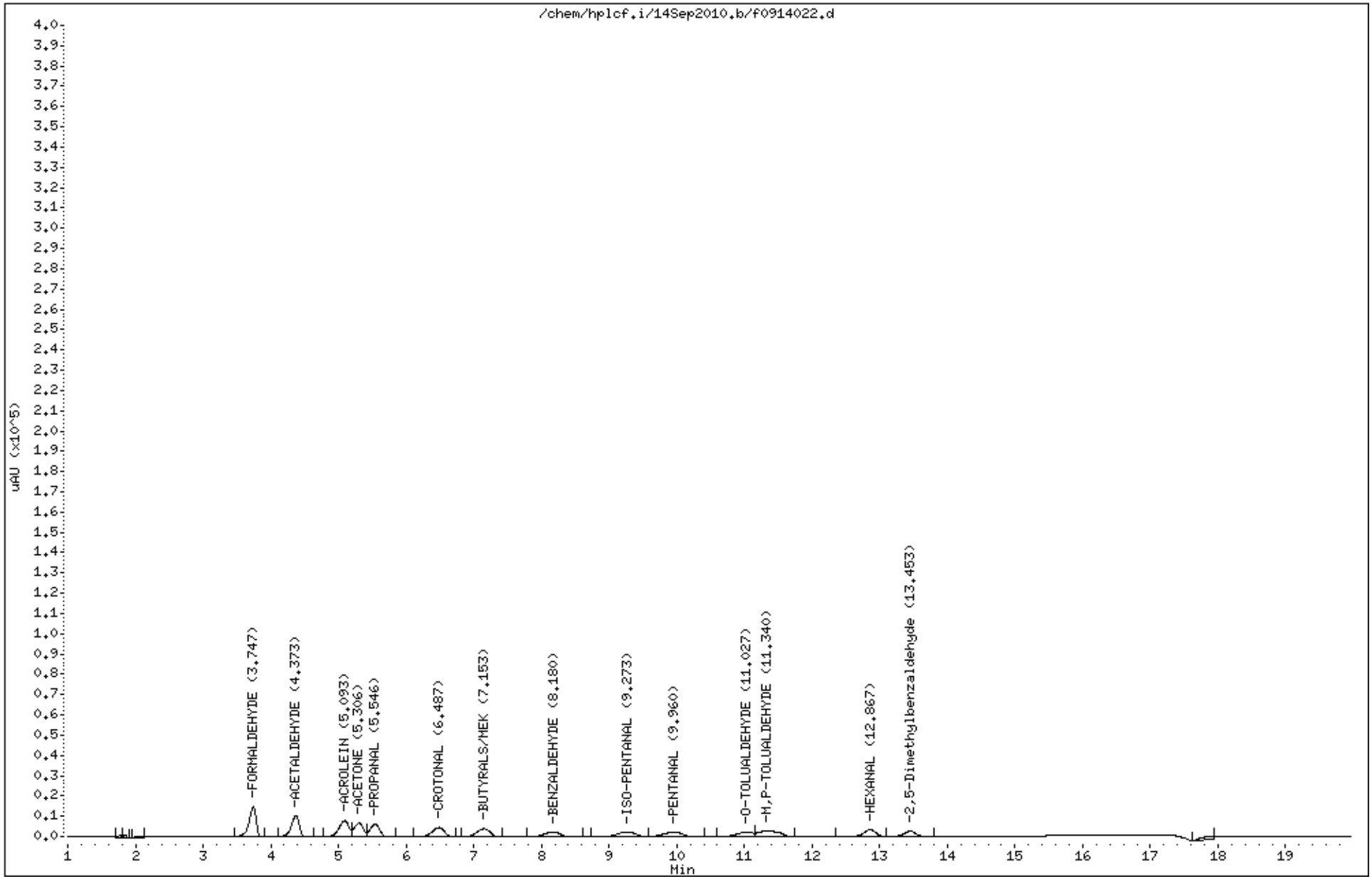
Sample Info: ;1838-34-1.0;5

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

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	ON-COL (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

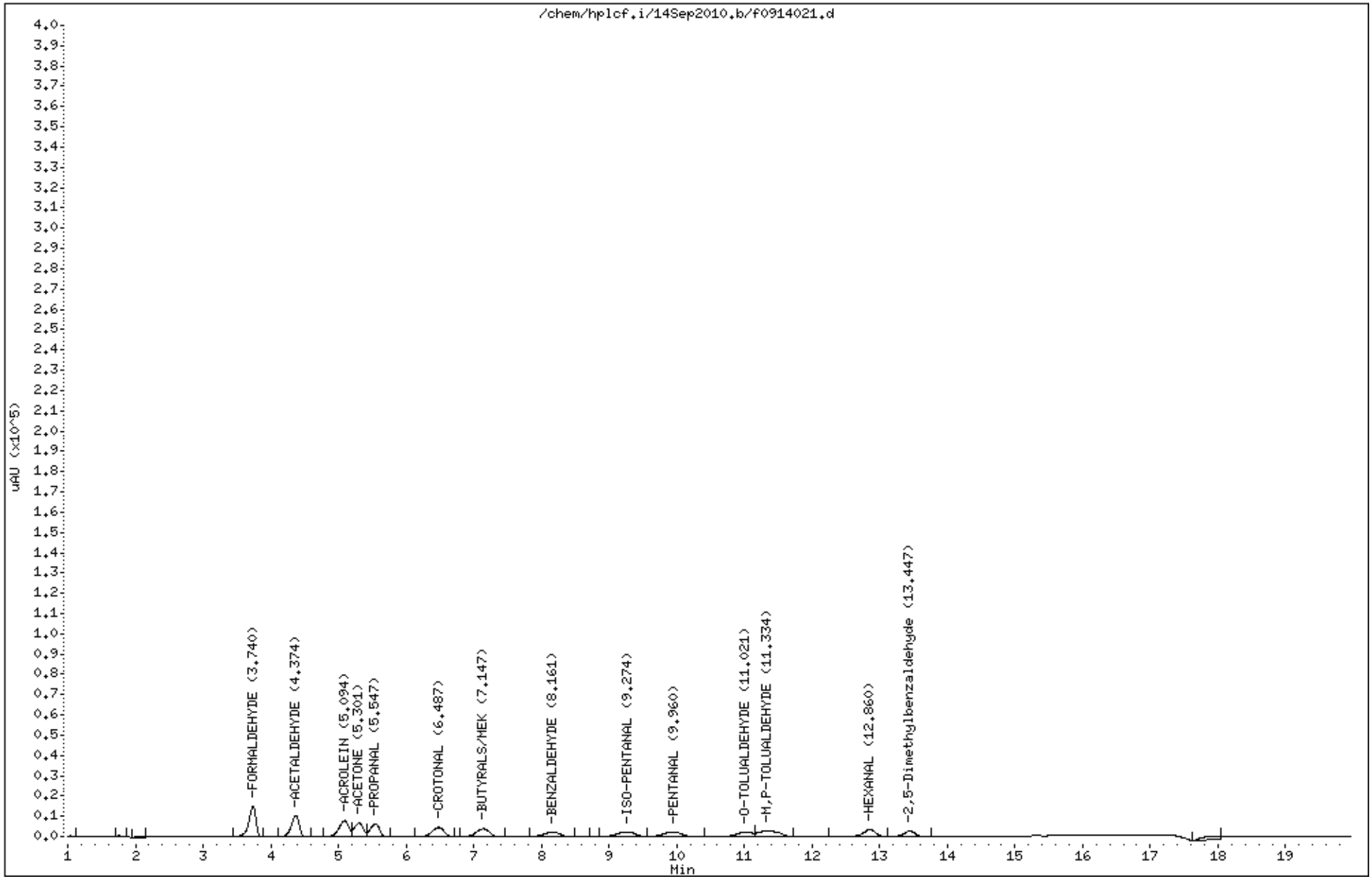
Sample Info: ;1838-34-1.0;5

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

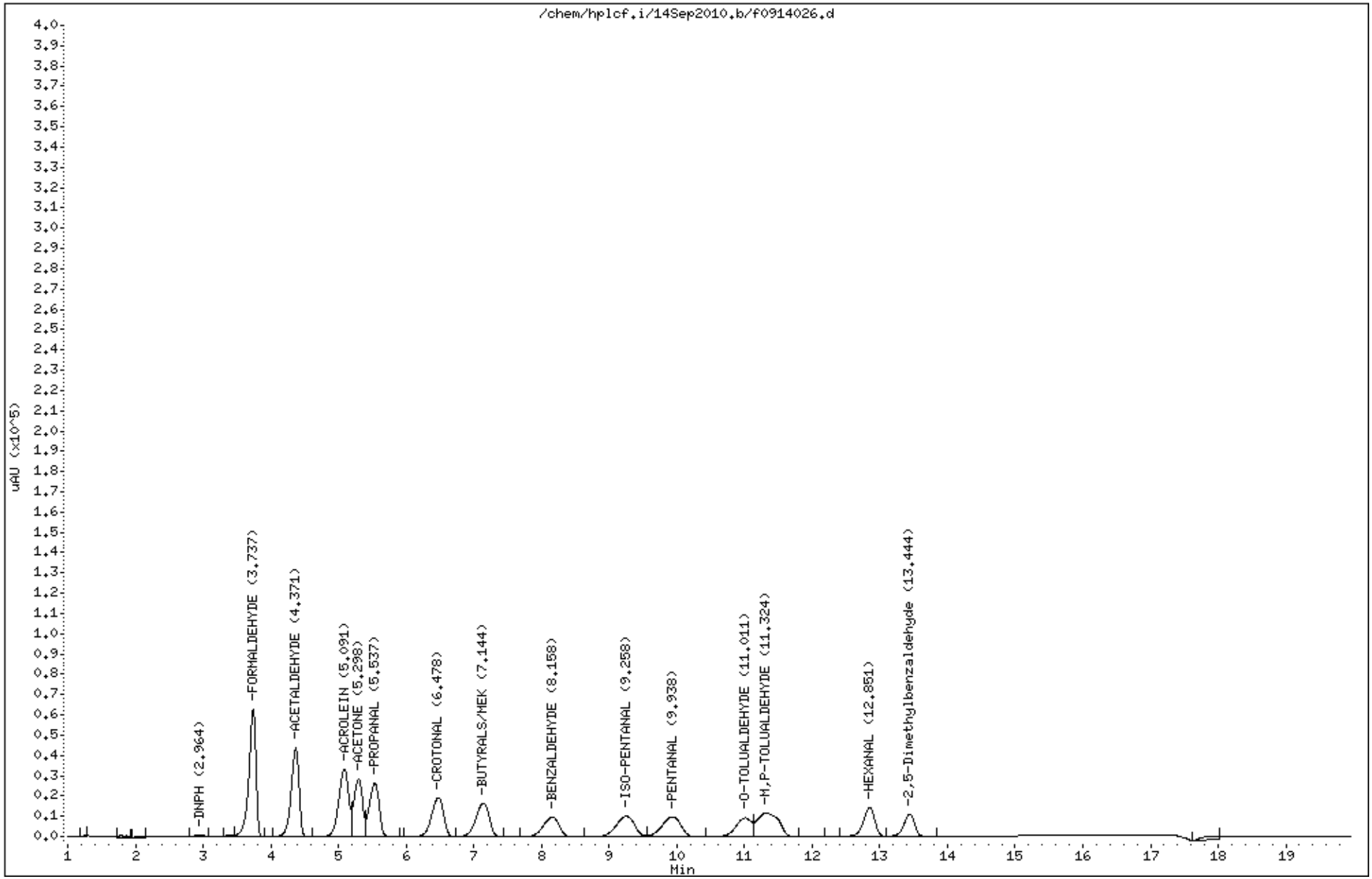
Sample Info: ;1838-32-4.0;6

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

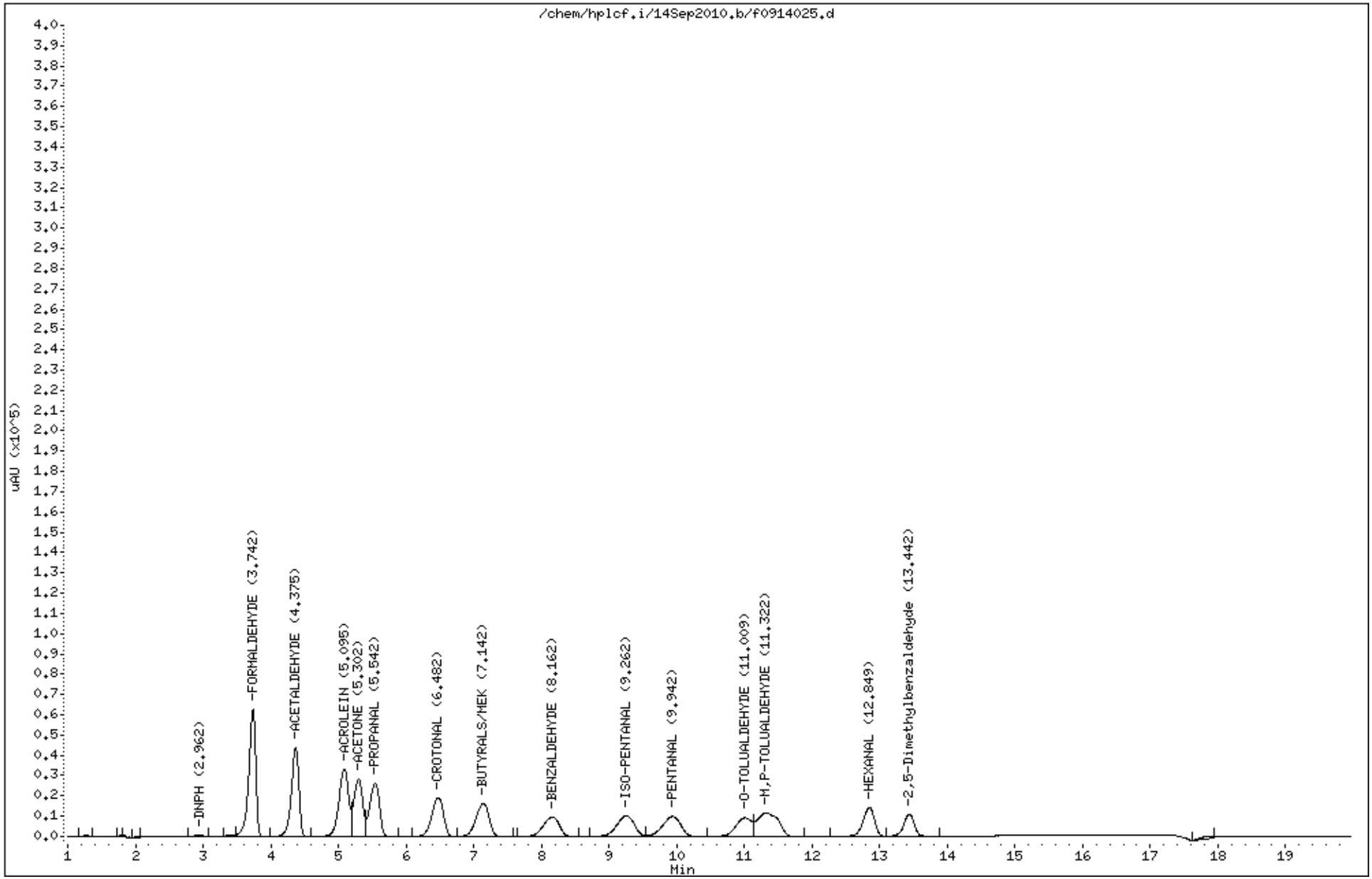
Sample Info: ;1838-32-4.0;6

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

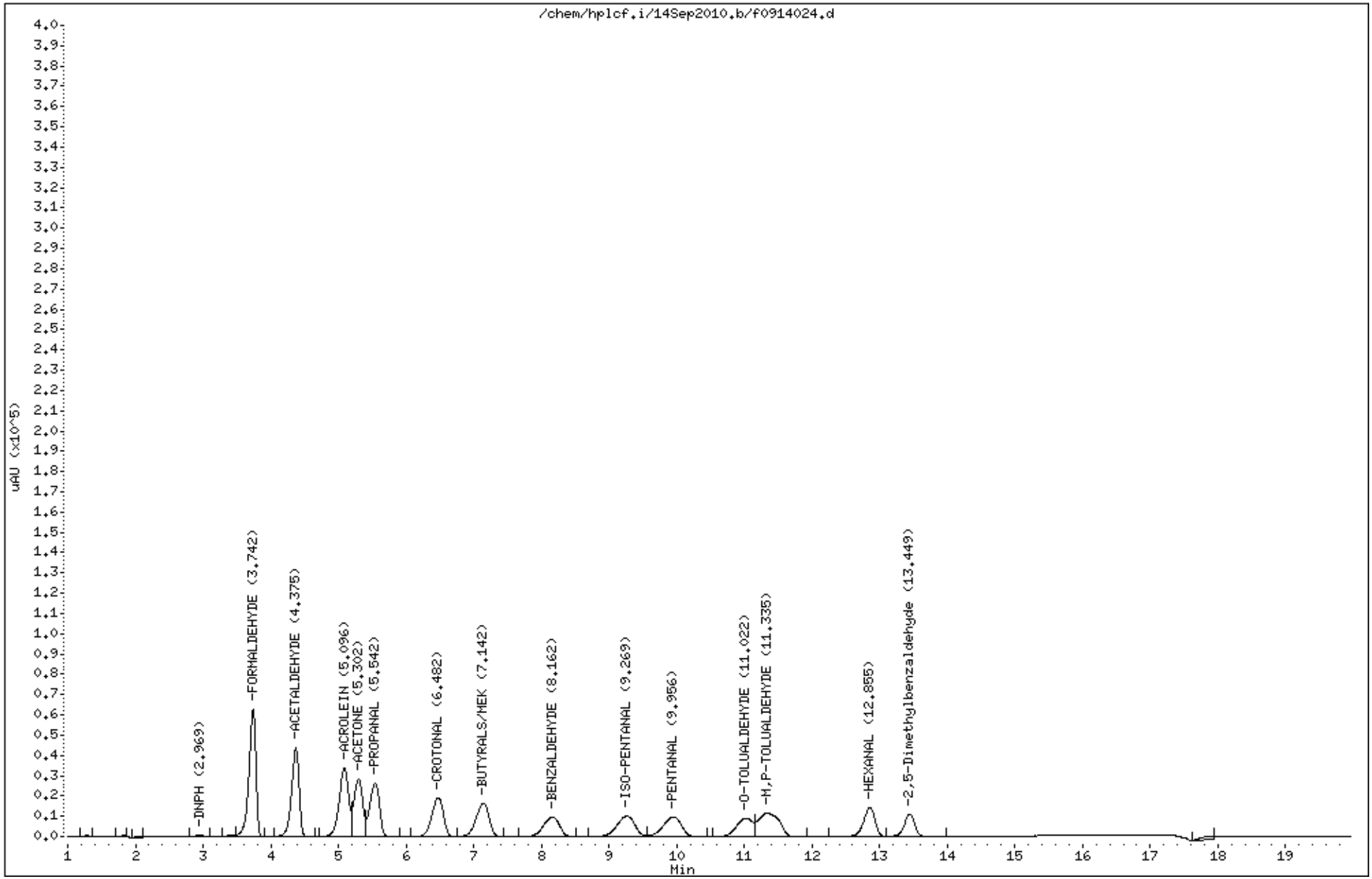
Sample Info: ;1838-32-4.0;6

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (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

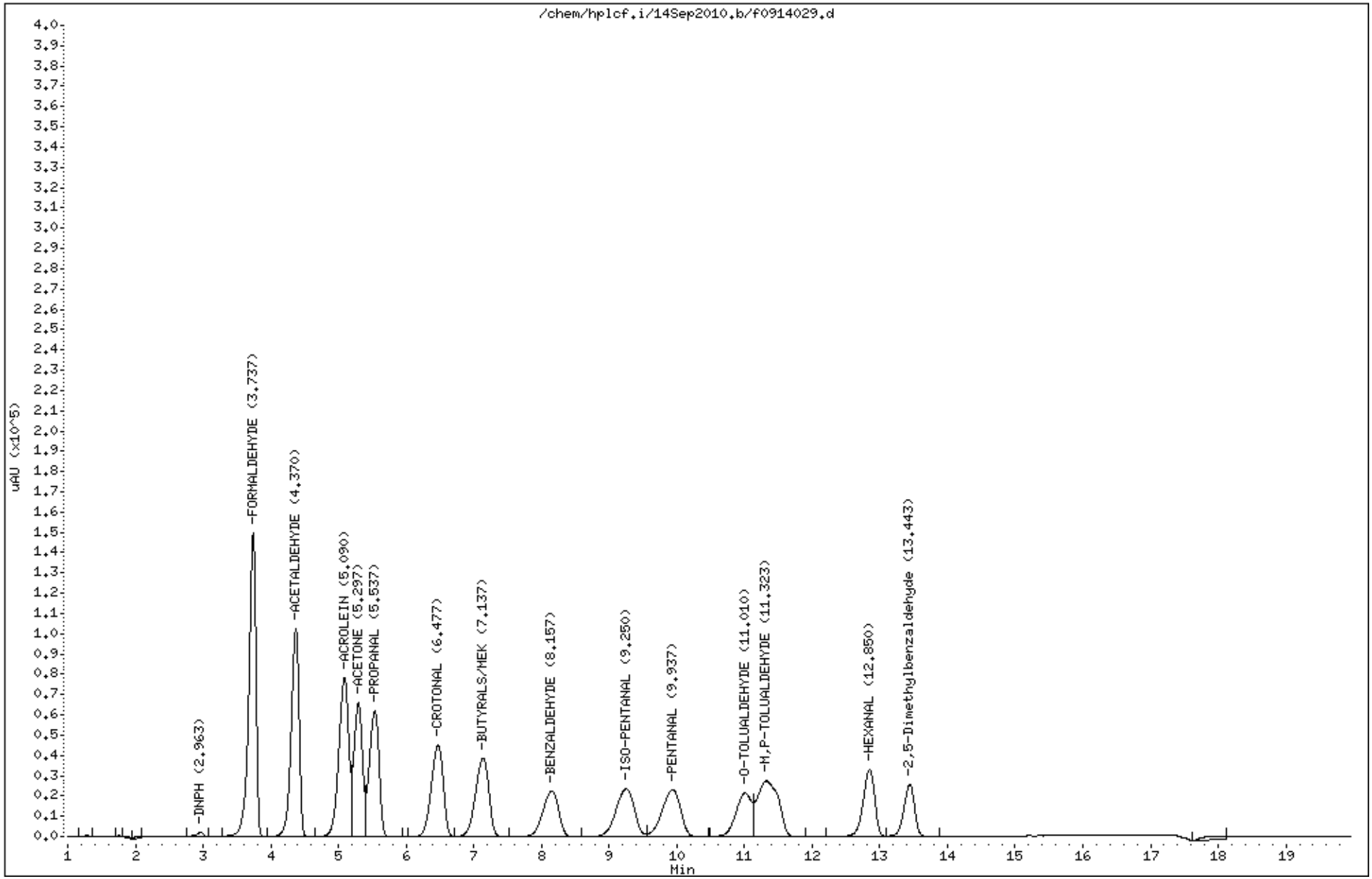
Sample Info: ;1838-34-10.0;7

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

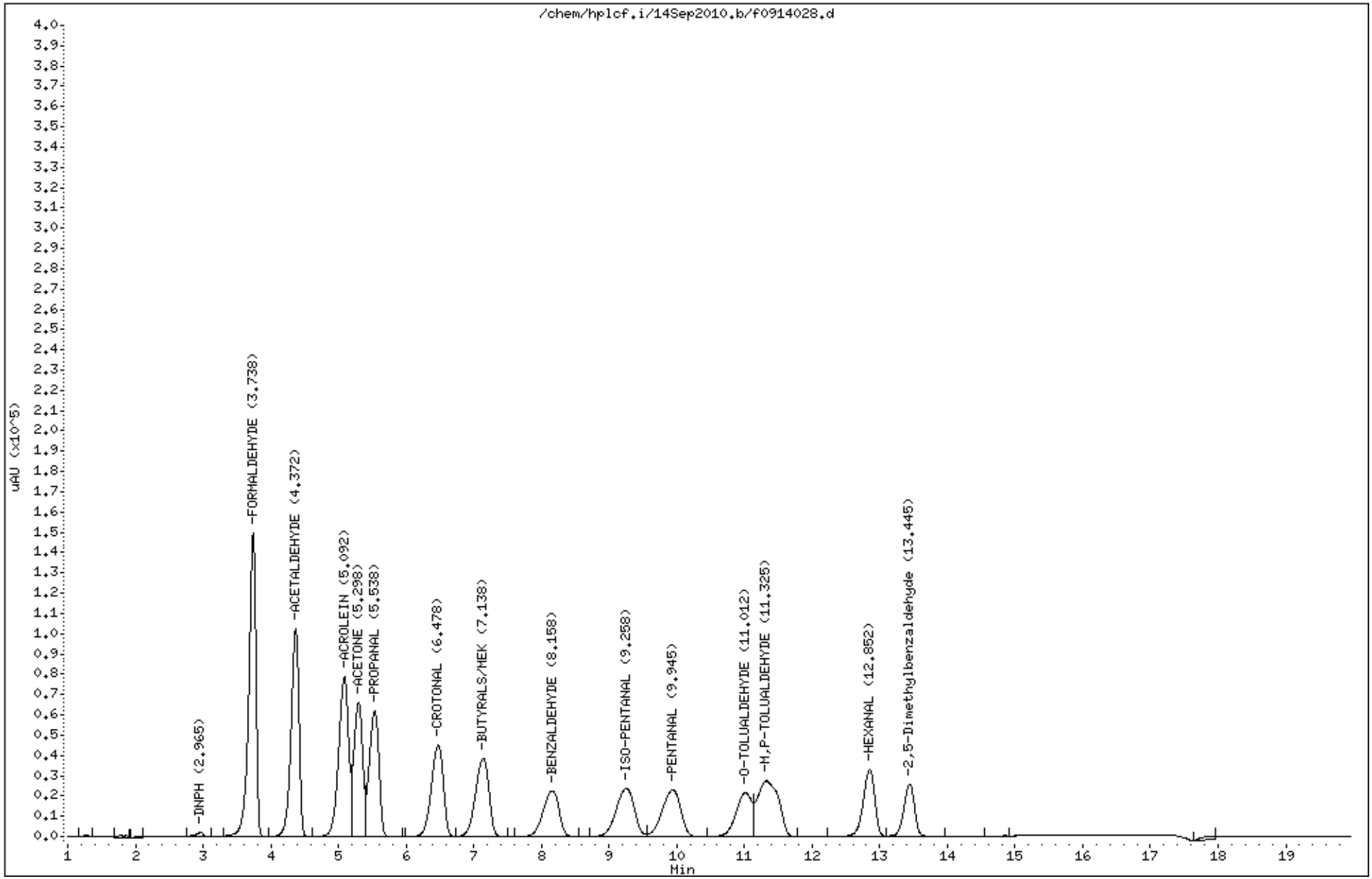
Sample Info: ;1838-34-10.0;7

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

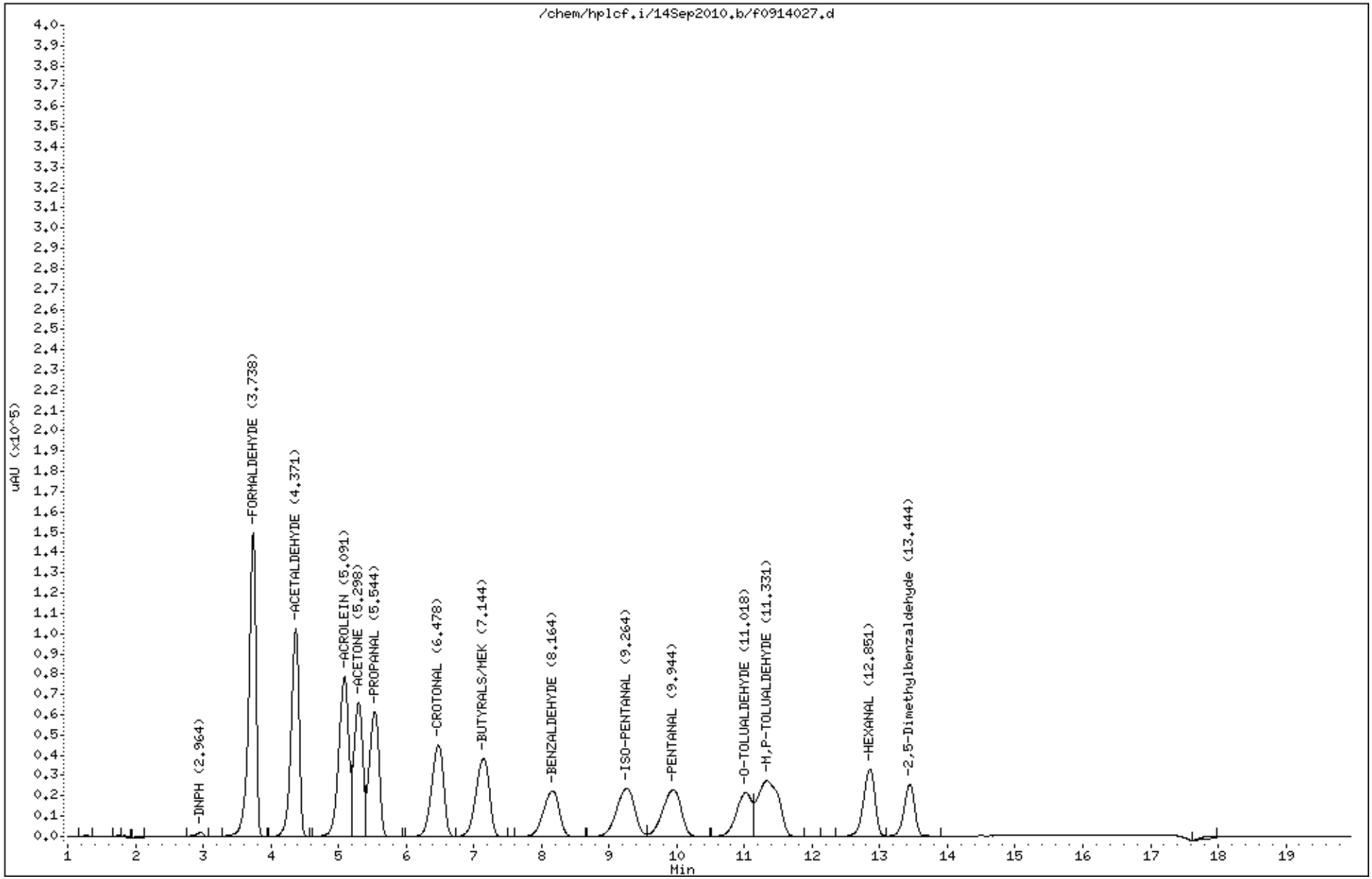
Sample Info: ;1838-34-10.0;7

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

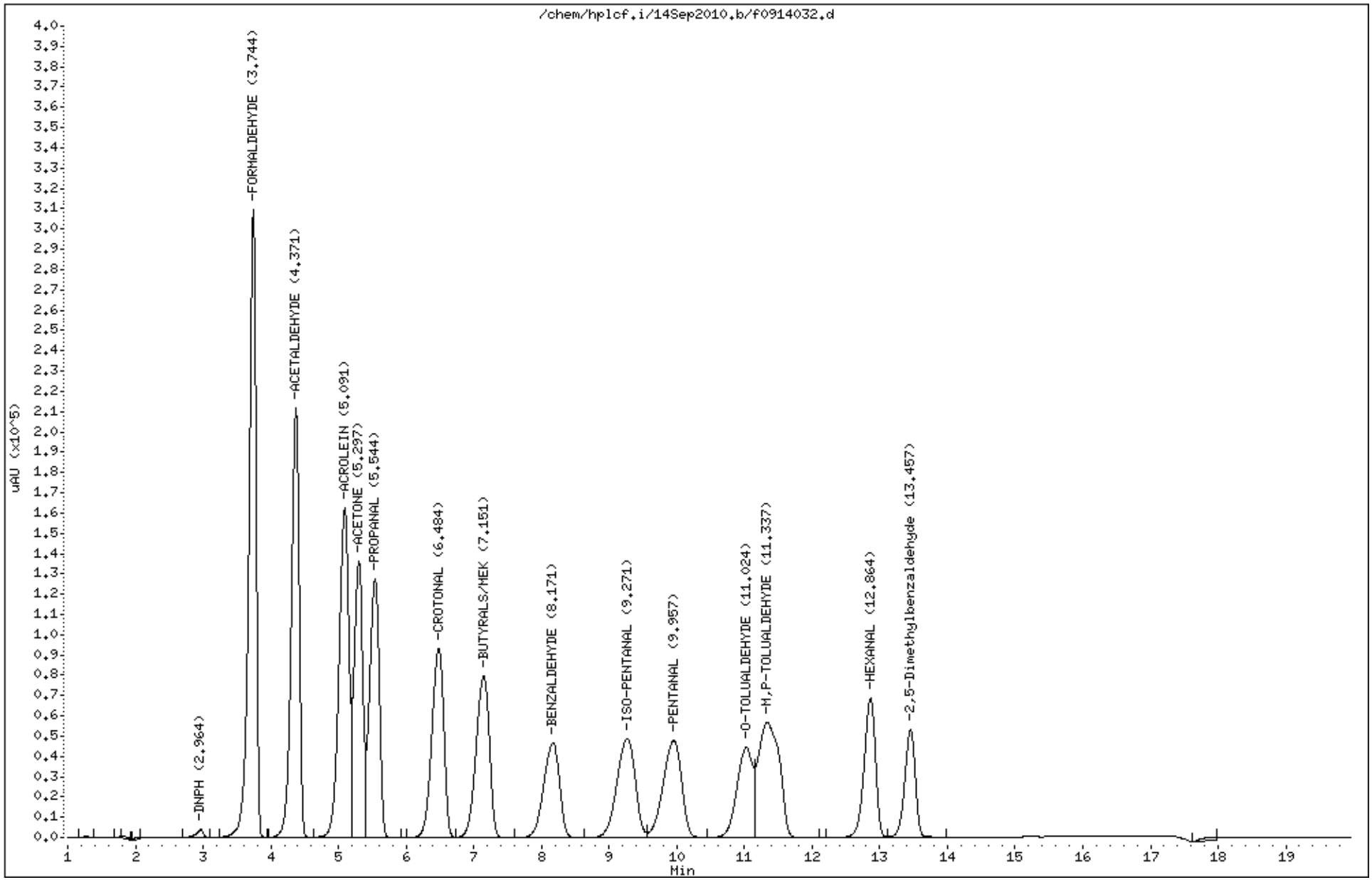
Sample Info: ;1838-34-20.0;8

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

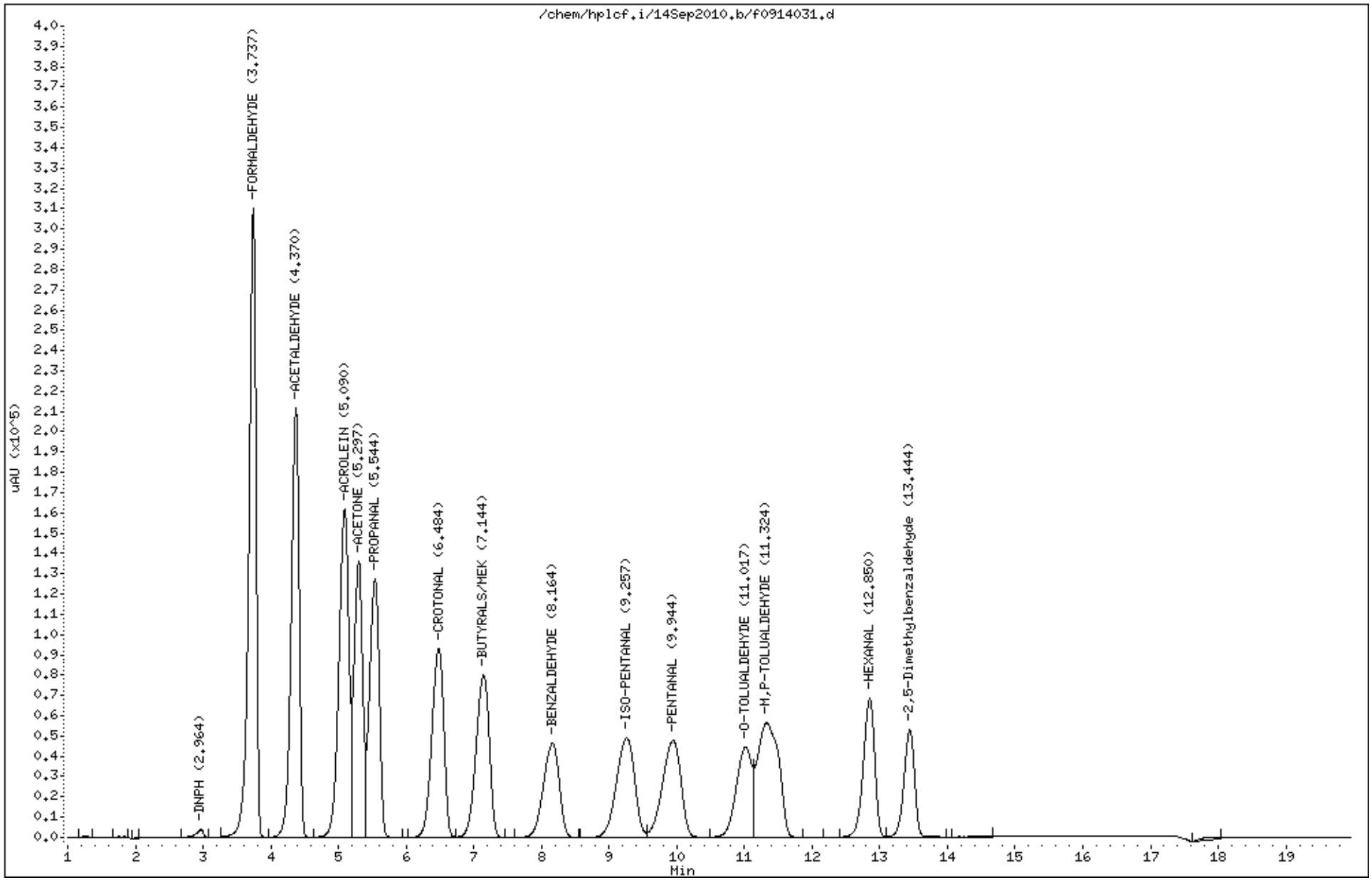
Sample Info: ;1838-34-20.0;8

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

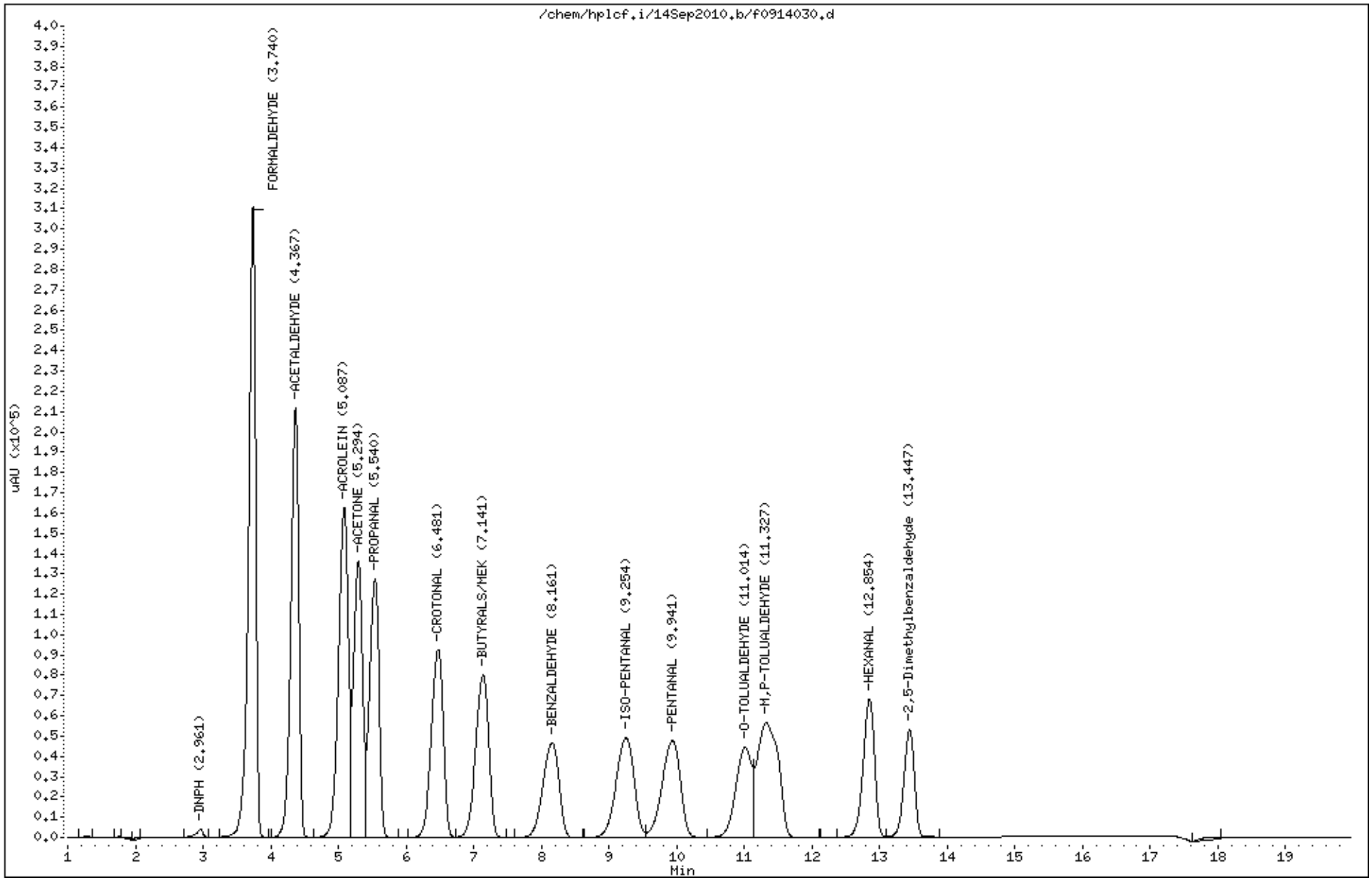
Sample Info: ;1838-34-20.0;8

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

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG)	AMOUNTS ON-COL (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

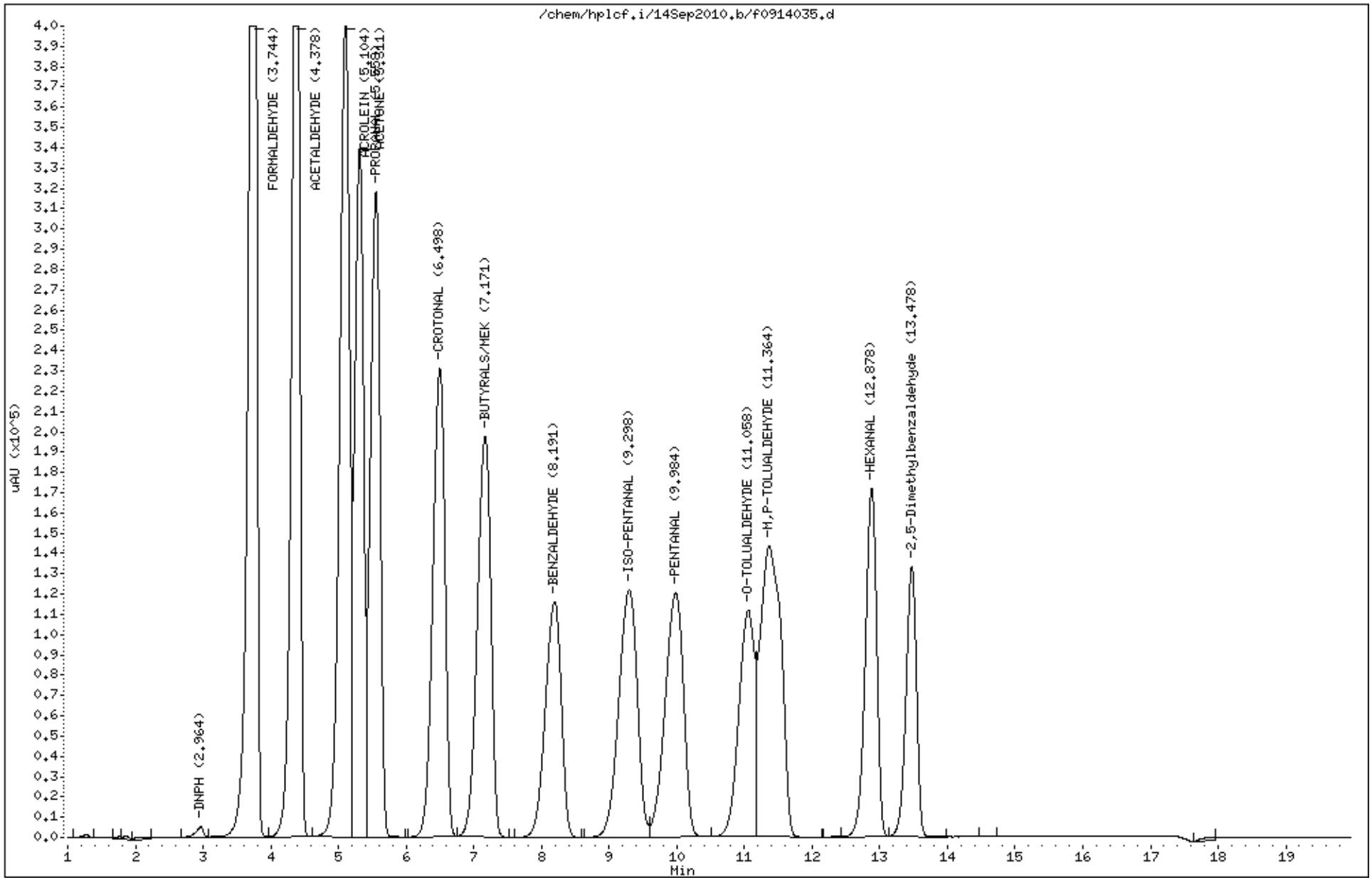
Sample Info: ;1838-34-50.0;9

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

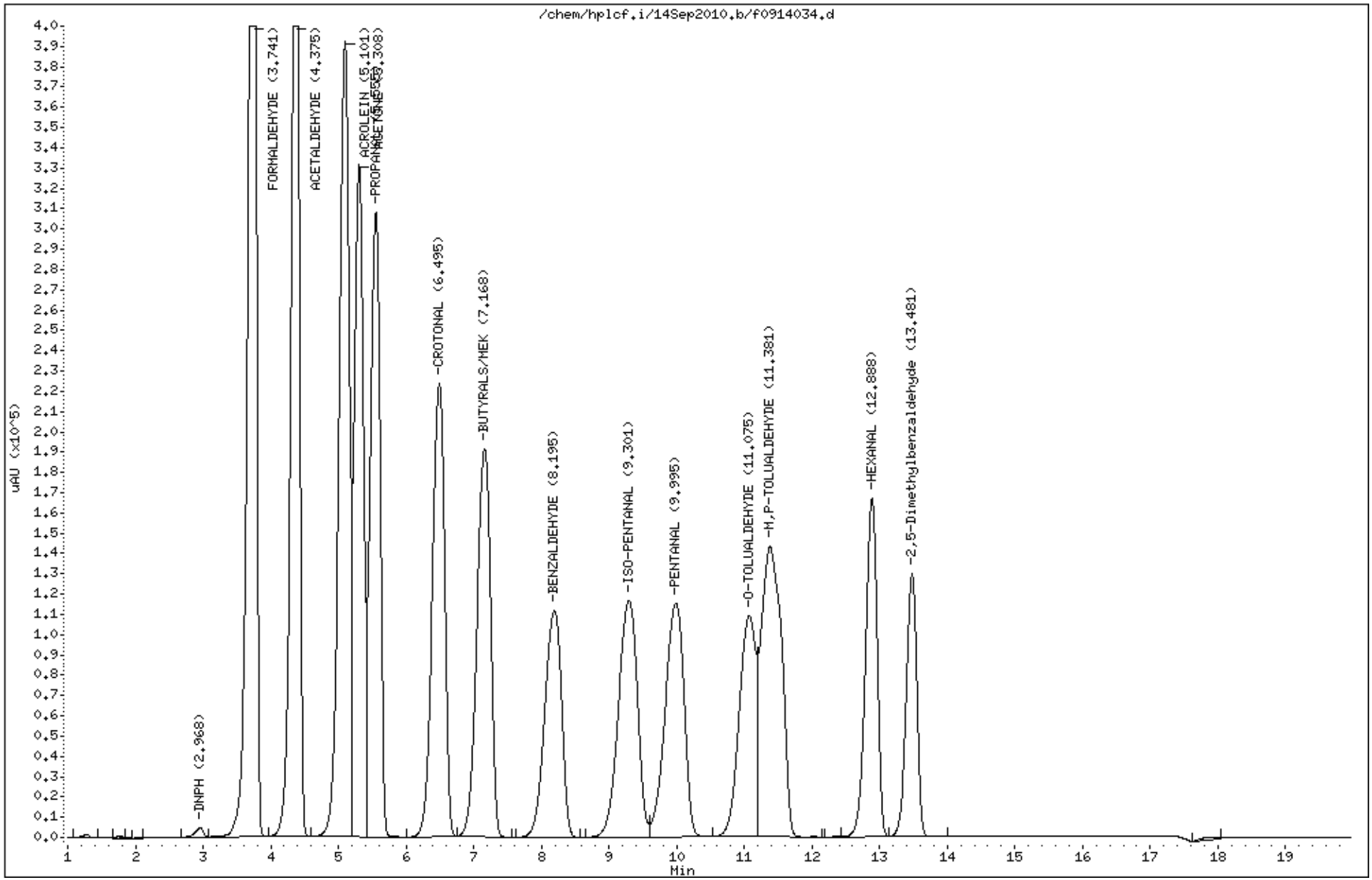
Sample Info: ;1838-34-50.0;9

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

Page 1

Date : 15-SEP-2010 01:07

Client ID: 9

Instrument: hplcf.i

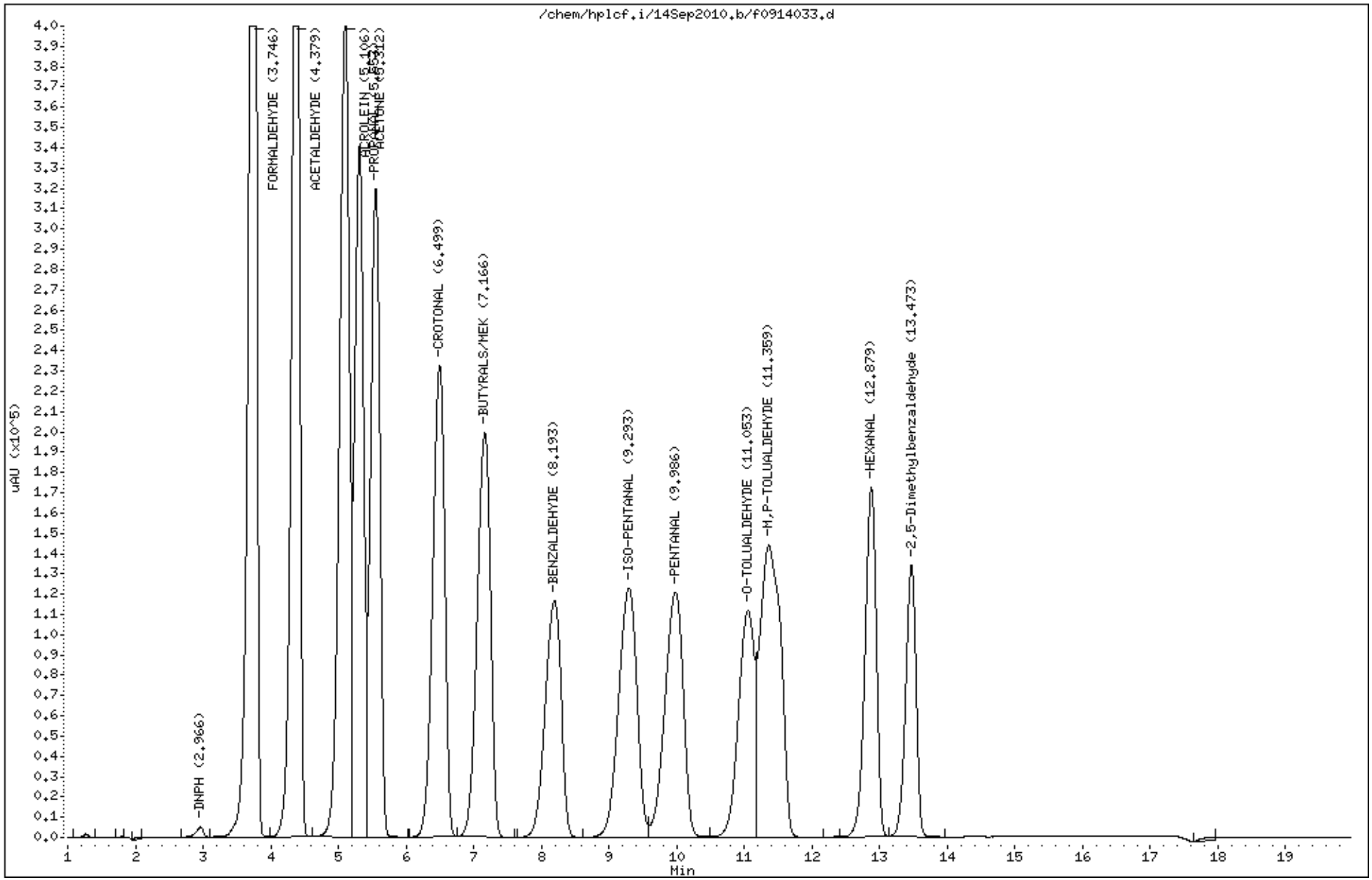
Sample Info: ;1838-34-50.0;9

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

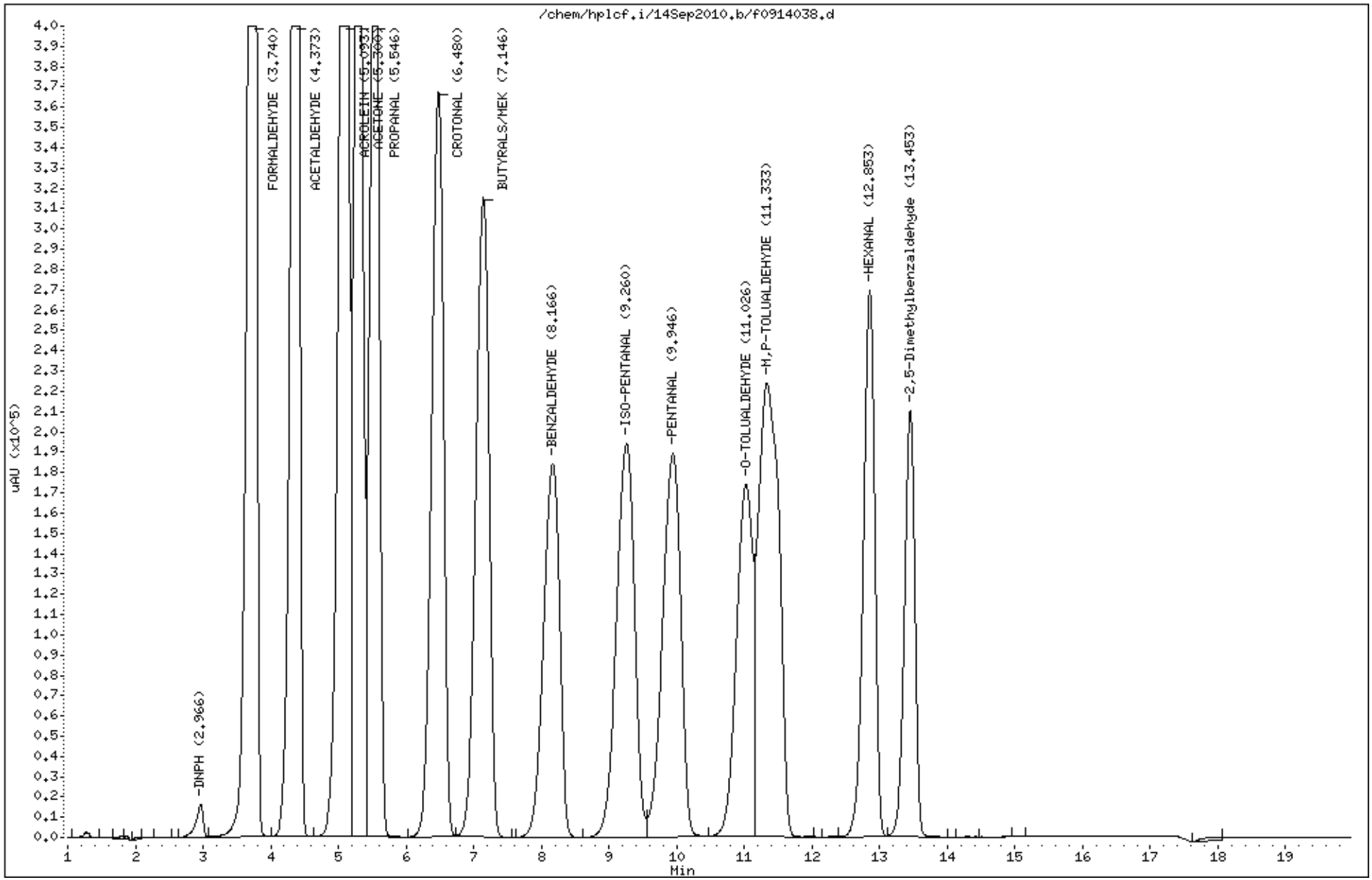
Sample Info: ;1838-34-75.0;10

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

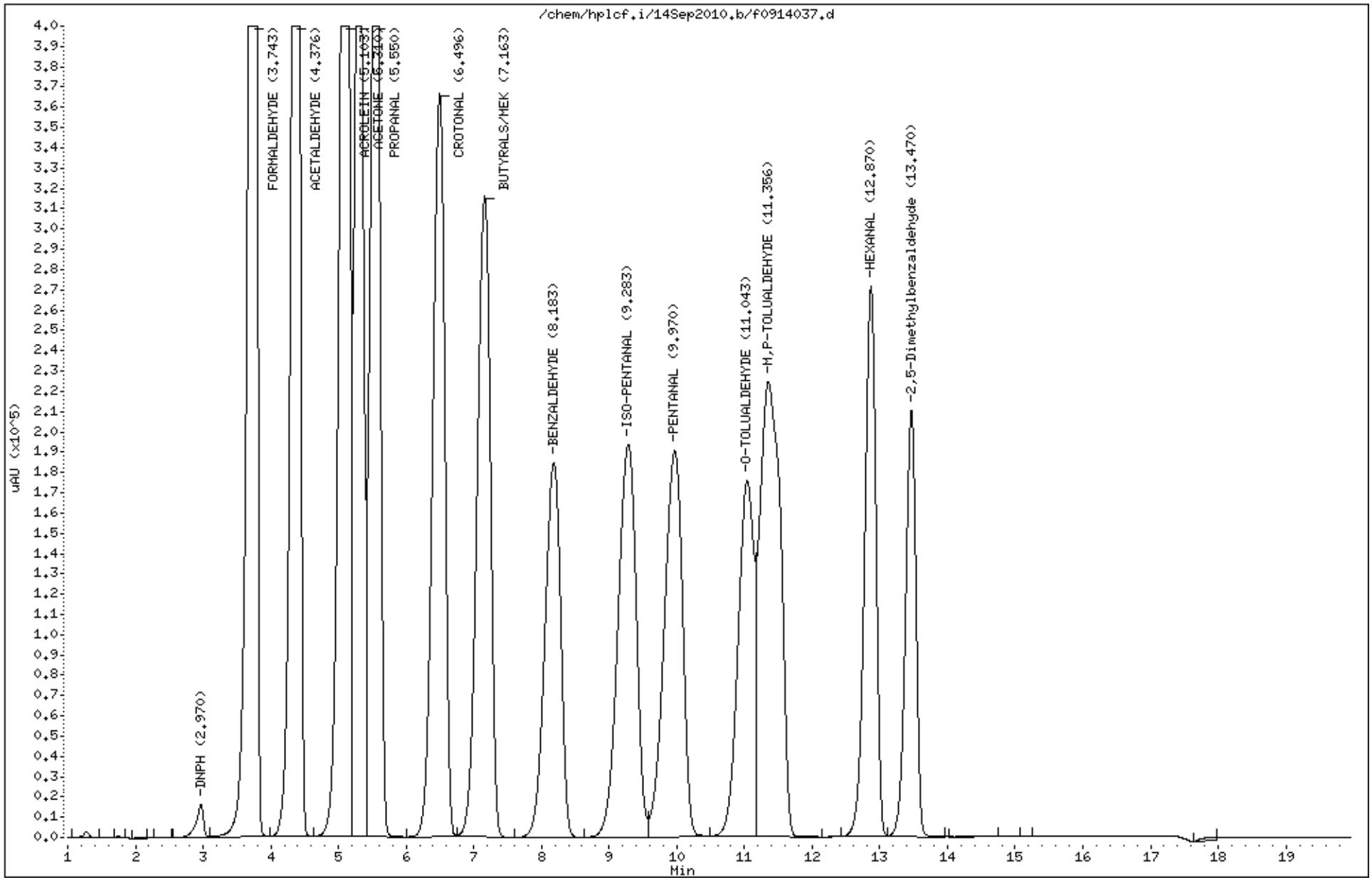
Sample Info: ;1838-34-75.0;10

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

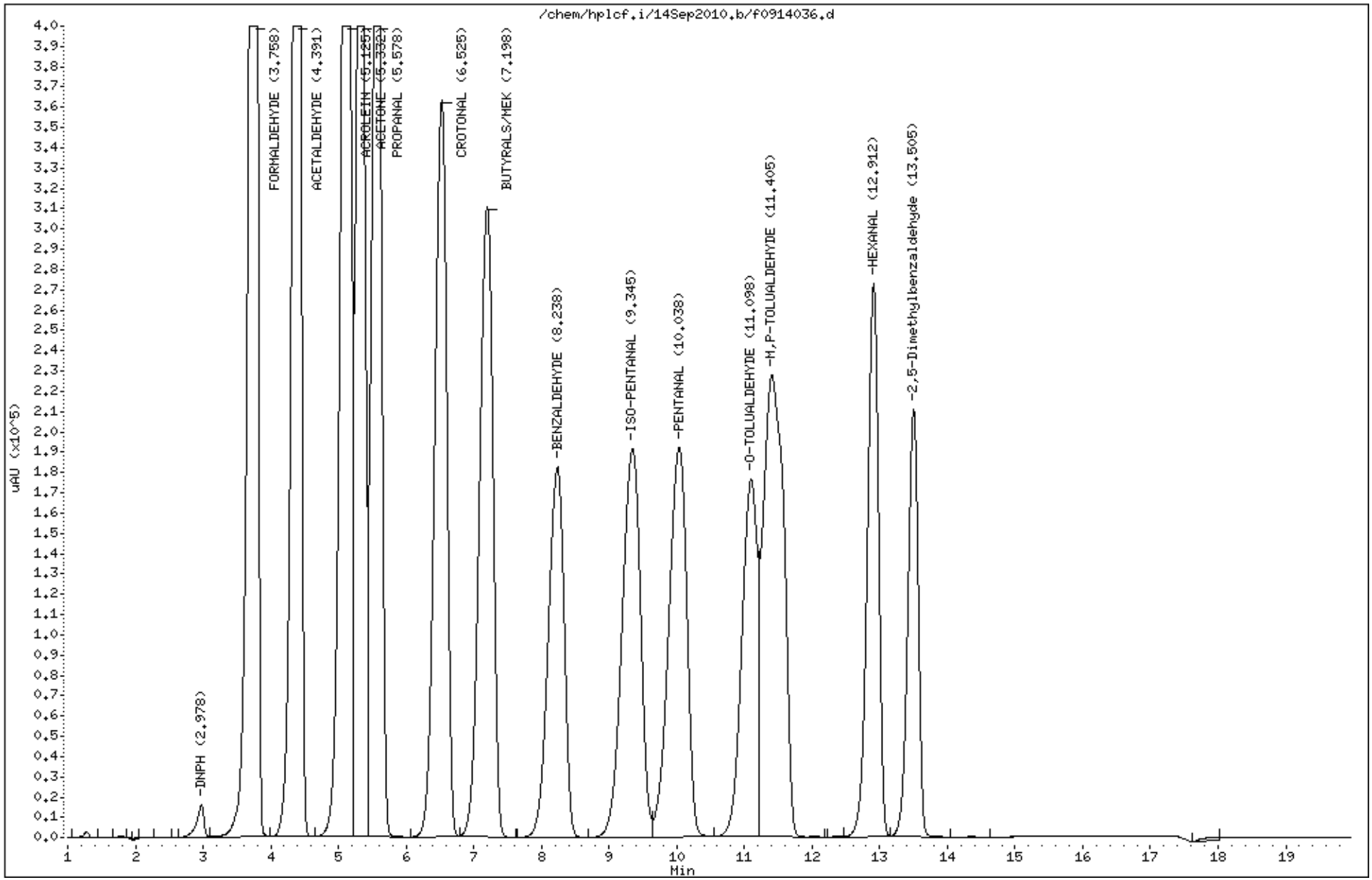
Sample Info: ;1838-34-75.0;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplcf.i Injection Date: 26-OCT-2010 09:44
Lab File ID: f1026005.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/26Oct2010.b/F10D0914.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
1 DNPH	++++	116	0.100	++++	10.00000	Averaged <-
2 FORMALDEHYDE	109474	114187	0.010	-4.30522	10.00000	Averaged
3 ACETALDEHYDE	85159	84664	0.010	0.58034	10.00000	Averaged
4 ACROLEIN	81132	82590	0.010	-1.79784	10.00000	Averaged
5 ACETONE	62324	60790	0.010	2.46132	10.00000	Averaged
6 PROPANAL	62684	60493	0.010	3.49618	10.00000	Averaged
7 CROTONAL	56944	55744	0.010	2.10776	10.00000	Averaged
9 BUTYRALS/MEK	54133	53036	0.010	2.02742	10.00000	Averaged
10 BENZALDEHYDE	38259	37582	0.010	1.76848	10.00000	Averaged
11 ISO-PENTANAL	45456	45431	0.010	0.05504	10.00000	Averaged
12 PENTANAL	44700	44514	0.010	0.41628	10.00000	Averaged
14 O-TOLUALDEHYDE	36466	36119	0.010	0.95133	10.00000	Averaged
15 M,P-TOLUALDEHYDE	30634	30006	0.010	2.04972	10.00000	Averaged
16 HEXANAL	40334	39473	0.010	2.13433	10.00000	Averaged
17 2,5-Dimethylbenzaldehyde	29495	28245	0.010	4.23832	10.00000	Averaged

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026005.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 26-OCT-2010 09:44
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 11:32 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	3.728	3.728	0.000	1141873	10.0000	10.4
3 ACETALDEHYDE	4.354	4.354	0.000	846644	10.0000	9.94
4 ACROLEIN	5.061	5.061	0.000	825901	10.0000	10.2
5 ACETONE	5.261	5.261	0.000	607902	10.0000	9.75
6 PROPANAL	5.508	5.508	0.000	604925	10.0000	9.65
7 CROTONAL	6.428	6.428	0.000	557438	10.0000	9.79
9 BUTYRALS/MEK	7.088	7.088	0.000	530357	10.0000	9.80
10 BENZALDEHYDE	8.088	8.088	0.000	375822	10.0000	9.82
11 ISO-PENTANAL	9.128	9.128	0.000	454310	10.0000	9.99
12 PENTANAL	9.794	9.794	0.000	445141	10.0000	9.96
14 O-TOLUALDEHYDE	10.894	10.894	0.000	361192	10.0000	9.90
15 M,P-TOLUALDEHYDE	11.208	11.208	0.000	600117	20.0000	19.6
16 HEXANAL	12.748	12.748	0.000	394731	10.0000	9.79
17 2,5-Dimethylbenzaldehyde	13.354	13.354	0.000	282448	10.0000	9.58

Data File: /chem/hplcf.i/26Oct2010.b/f1026005.d

Date : 26-OCT-2010 09:44

Client ID: CCV

Instrument: hplcf.i

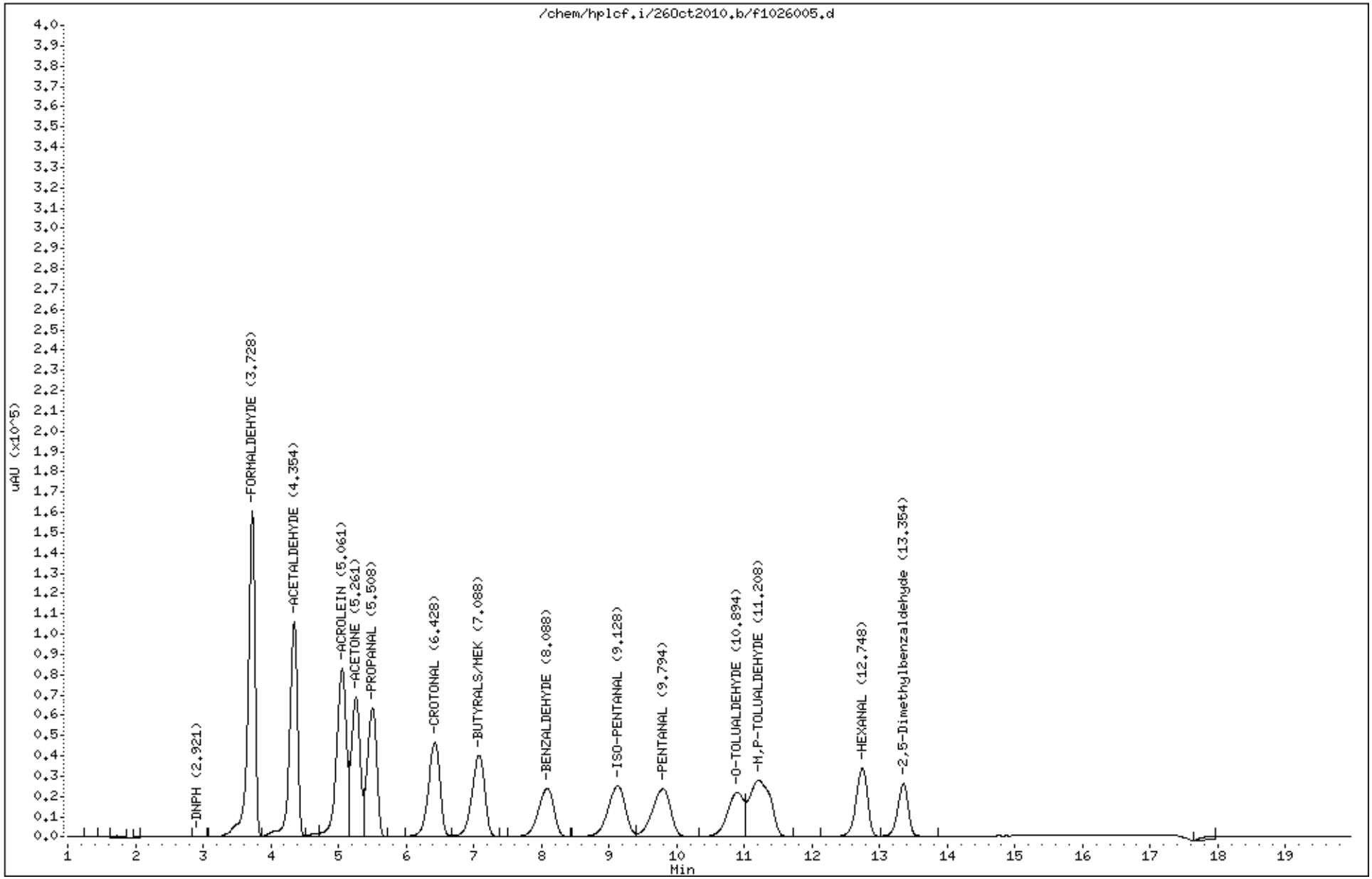
Sample Info: ;1838-41-10;CCV

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/26Oct2010.b/f1026006.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 26-OCT-2010 10:05
Operator : CRL Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 11:32 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/26Oct2010.b/f1026006.d

Date : 26-OCT-2010 10:05

Client ID: LAB BLANK

Instrument: hplcf.i

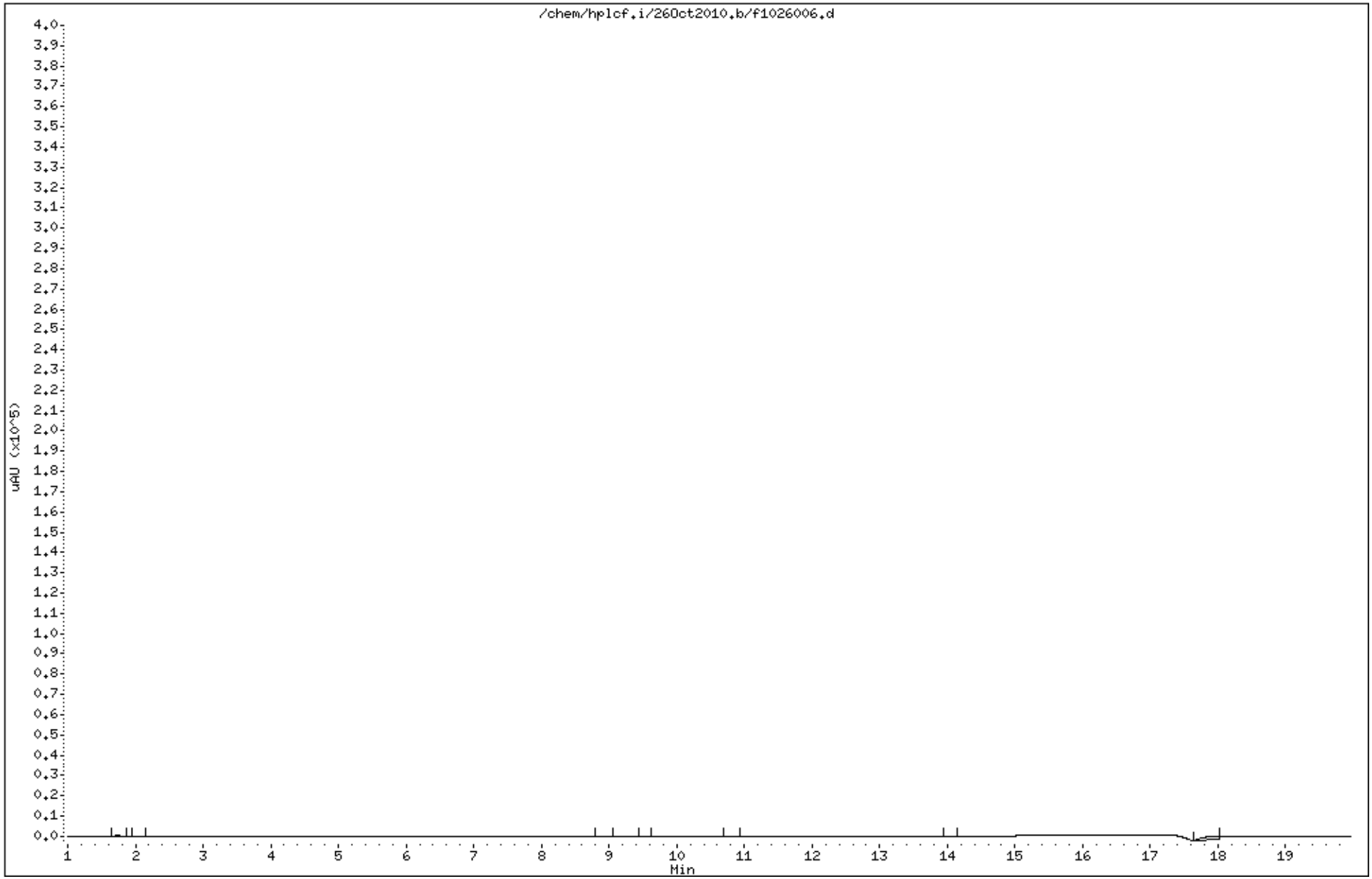
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 26Oct2010
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: CRL
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	10.0	
107-02-8	ACROLEIN	10.2	
67-64-1	ACETONE	9.81	
123-38-6	PROPANAL	9.81	
123-73-9	CROTONAL	9.89	
9999-9999-007	BUTYRALS/MEK	9.89	
100-52-7	BENZALDEHYDE	9.92	
590-86-3	ISO-PENTANAL	10.1	
110-62-3	PENTANAL	9.97	
529-20-4	O-TOLUALDEHYDE	9.91	
620-23-51	M,P-TOLUALDEHYDE	19.8	
66-25-1	HEXANAL	9.86	
5779-94-2	2,5-Dimethylbenzaldehyde	9.69	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026024.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 26-OCT-2010 16:21
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	3.744	3.728	0.016	1153683	10.5384	10.5
3 ACETALDEHYDE	4.371	4.354	0.017	853892	10.0271	10.0
4 ACROLEIN	5.091	5.061	0.030	828523	10.2121	10.2
5 ACETONE	5.291	5.261	0.030	611278	9.80804	9.81
6 PROPANAL	5.538	5.508	0.030	614751	9.80713	9.81
7 CROTONAL	6.471	6.428	0.043	563352	9.89307	9.89
9 BUTYRALS/MEK	7.131	7.088	0.043	535371	9.88987	9.89
10 BENZALDEHYDE	8.151	8.088	0.063	379342	9.91515	9.92
11 ISO-PENTANAL	9.218	9.128	0.090	459365	10.1057	10.1
12 PENTANAL	9.891	9.794	0.097	445849	9.97420	9.97
14 O-TOLUALDEHYDE	10.991	10.894	0.097	361234	9.90602	9.91
15 M,P-TOLUALDEHYDE	11.298	11.208	0.090	607440	19.8291	19.8
16 HEXANAL	12.818	12.748	0.070	397772	9.86195	9.86
17 2,5-Dimethylbenzaldehyde	13.418	13.354	0.064	285836	9.69103	9.69

Report Date: 26-Oct-2010 17:45

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26Oct2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: CRL
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/26Oct2010.b/F10D0914.m
Misc Info:

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2	FORMALDEHYDE	10.0	10.5	105.38	90-110
3	ACETALDEHYDE	10.0	10.0	100.27	90-110
4	ACROLEIN	10.0	10.2	102.12	90-110
5	ACETONE	10.0	9.81	98.08	90-110
6	PROPANAL	10.0	9.81	98.07	90-110
7	CROTONAL	10.0	9.89	98.93	90-110
9	BUTYRALS/MEK	10.0	9.89	98.90	90-110
10	BENZALDEHYDE	10.0	9.92	99.15	90-110
11	ISO-PENTANAL	10.0	10.1	101.06	90-110
12	PENTANAL	10.0	9.97	99.74	90-110
14	O-TOLUALDEHYDE	10.0	9.91	99.06	90-110
15	M,P-TOLUALDEHYDE	20.0	19.8	99.15	90-110
16	HEXANAL	10.0	9.86	98.62	90-110
17	2,5-Dimethylbenzal	10.0	9.69	96.91	90-110

Data File: /chem/hplcf.i/26Oct2010.b/f1026024.d

Date : 26-OCT-2010 16:21

Client ID: CCV

Instrument: hplcf.i

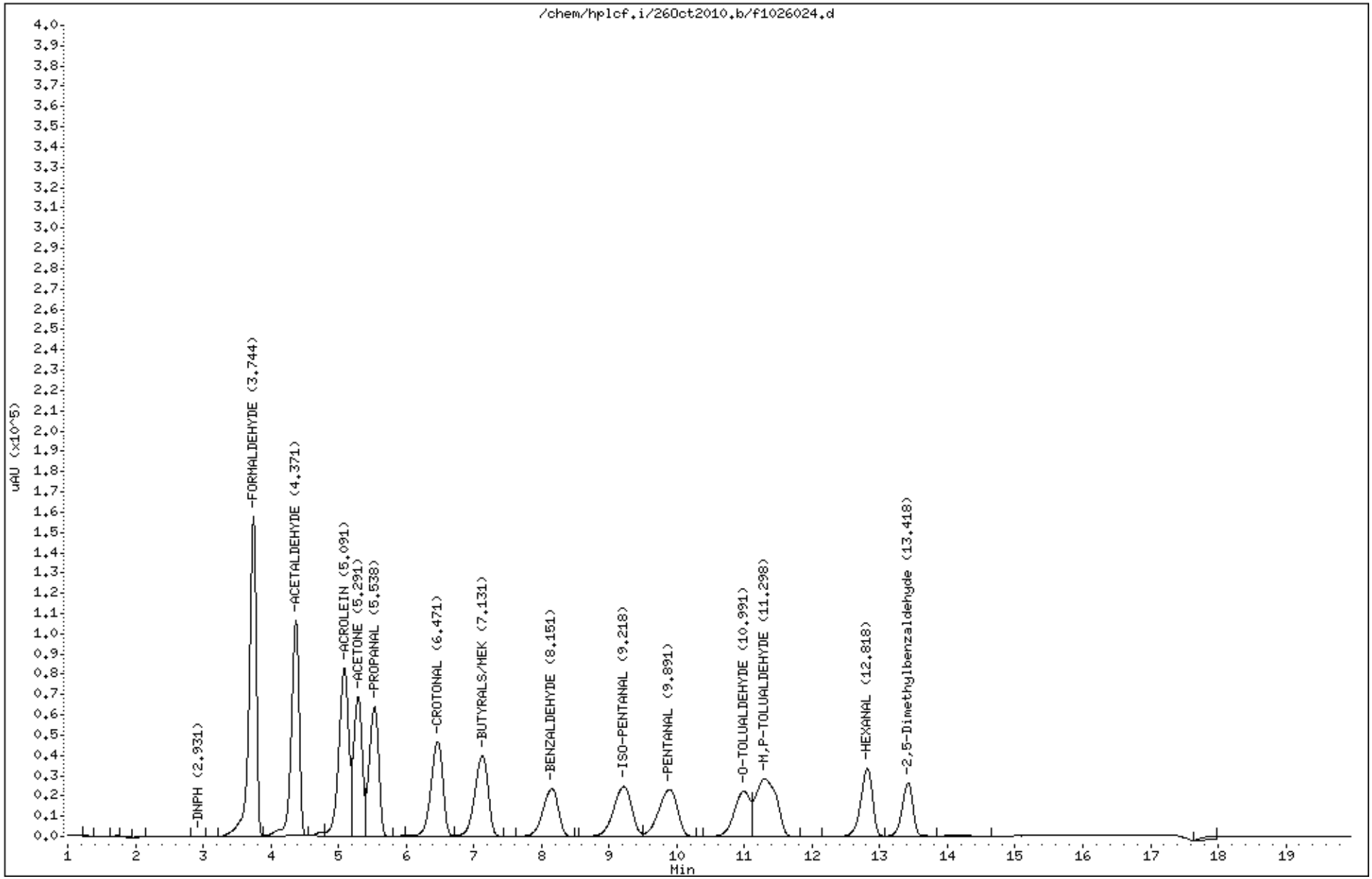
Sample Info: ;1838-41-10;CCV

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/26Oct2010.b/f1026025.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 26-OCT-2010 16:42
Operator : CRL Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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/26Oct2010.b/f1026025.d

Date : 26-OCT-2010 16:42

Client ID: LAB BLANK

Instrument: hplcf.i

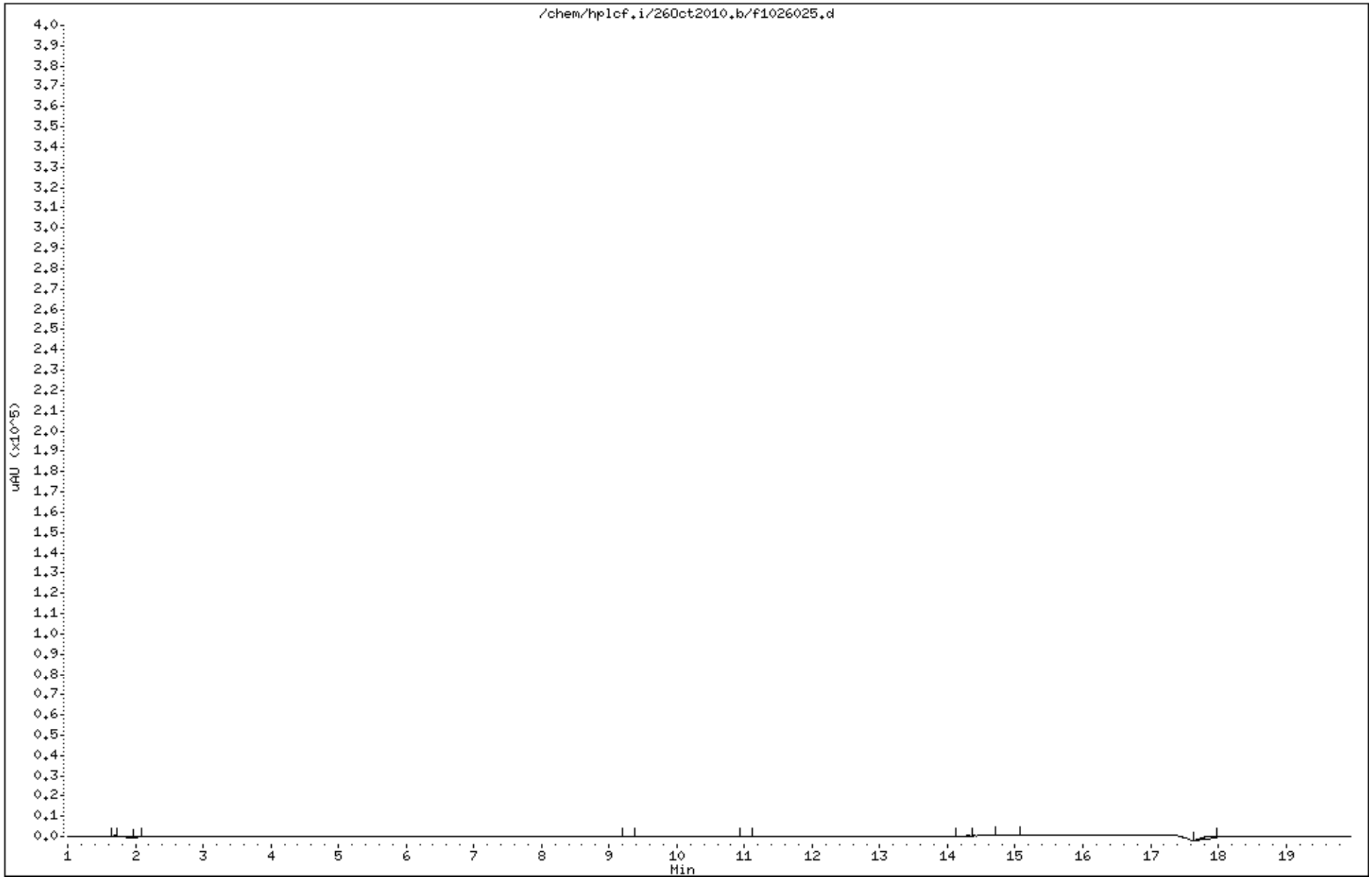
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 26Oct2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: CRL

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.7	
75-07-0	ACETALDEHYDE	10.2	
107-02-8	ACROLEIN	10.5	
67-64-1	ACETONE	10.0	
123-38-6	PROPANAL	9.86	
123-73-9	CROTONAL	10.1	
9999-9999-007	BUTYRALS/MEK	9.98	
100-52-7	BENZALDEHYDE	9.91	
590-86-3	ISO-PENTANAL	10.0	
110-62-3	PENTANAL	9.99	
529-20-4	O-TOLUALDEHYDE	10.0	
620-23-51	M,P-TOLUALDEHYDE	19.8	
66-25-1	HEXANAL	9.96	
5779-94-2	2,5-Dimethylbenzaldehyde	9.76	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026035.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 26-OCT-2010 20:11
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	3.751	3.728	0.023	1170214	10.6894	10.7
3 ACETALDEHYDE	4.378	4.354	0.024	873594	10.2584	10.2
4 ACROLEIN	5.098	5.061	0.037	850464	10.4825	10.5
5 ACETONE	5.298	5.261	0.037	626202	10.0475	10.0
6 PROPANAL	5.544	5.508	0.036	618422	9.86569	9.86
7 CROTONAL	6.478	6.428	0.050	574221	10.0839	10.1
9 BUTYRALS/MEK	7.138	7.088	0.050	540073	9.97673	9.98
10 BENZALDEHYDE	8.158	8.088	0.070	379245	9.91260	9.91
11 ISO-PENTANAL	9.211	9.128	0.083	455918	10.0299	10.0
12 PENTANAL	9.871	9.794	0.077	446450	9.98765	9.99
14 O-TOLUALDEHYDE	10.971	10.894	0.077	365876	10.0333	10.0
15 M,P-TOLUALDEHYDE	11.277	11.208	0.069	607644	19.8358	19.8
16 HEXANAL	12.797	12.748	0.049	401860	9.96332	9.96
17 2,5-Dimethylbenzaldehyde	13.404	13.354	0.050	287939	9.76234	9.76

Report Date: 27-Oct-2010 17:26

Air Toxics Ltd.

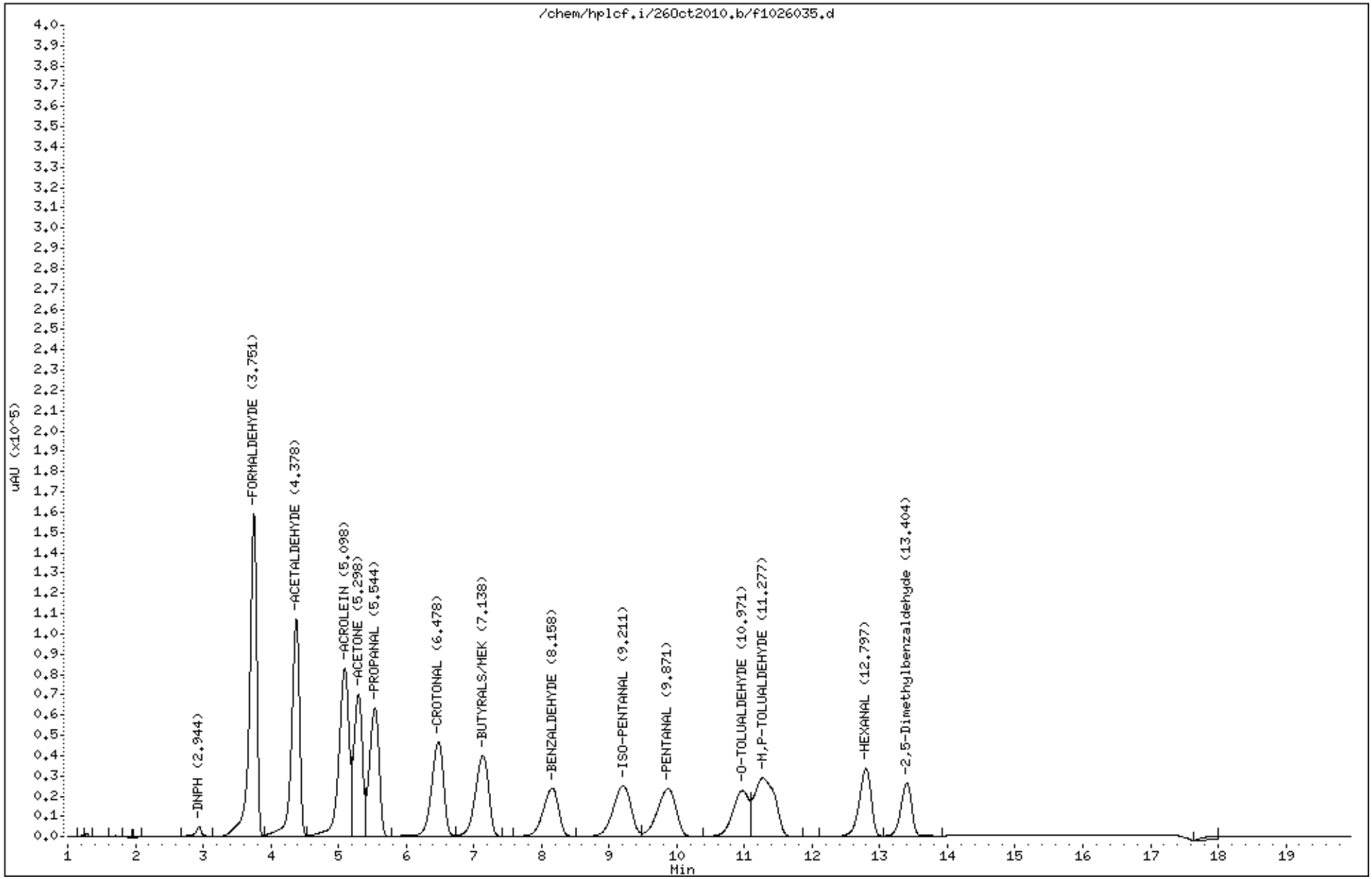
RECOVERY REPORT

Client Name: Client SDG: 26Oct2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: CRL
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/26Oct2010.b/F10D0914.m
Misc Info:

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2	FORMALDEHYDE	10.0	10.7	106.89	90-110
3	ACETALDEHYDE	10.0	10.2	102.58	90-110
4	ACROLEIN	10.0	10.5	104.83	90-110
5	ACETONE	10.0	10.0	100.47	90-110
6	PROPANAL	10.0	9.86	98.66	90-110
7	CROTONAL	10.0	10.1	100.84	90-110
9	BUTYRALS/MEK	10.0	9.98	99.77	90-110
10	BENZALDEHYDE	10.0	9.91	99.13	90-110
11	ISO-PENTANAL	10.0	10.0	100.30	90-110
12	PENTANAL	10.0	9.99	99.88	90-110
14	O-TOLUALDEHYDE	10.0	10.0	100.33	90-110
15	M,P-TOLUALDEHYDE	20.0	19.8	99.18	90-110
16	HEXANAL	10.0	9.96	99.63	90-110
17	2,5-Dimethylbenzal	10.0	9.76	97.62	90-110

Data File: /chem/hplcf.i/26Oct2010.b/f1026035.d
Date : 26-OCT-2010 20:11
Client ID: CCV
Sample Info: ;1838-41-10;CCV
Purge Volume: 5.0
Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i
Operator: CRL
Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026036.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 26-OCT-2010 20:32
Operator : CRL Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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/26Oct2010.b/f1026036.d

Date : 26-OCT-2010 20:32

Client ID: LAB BLANK

Instrument: hplcf.i

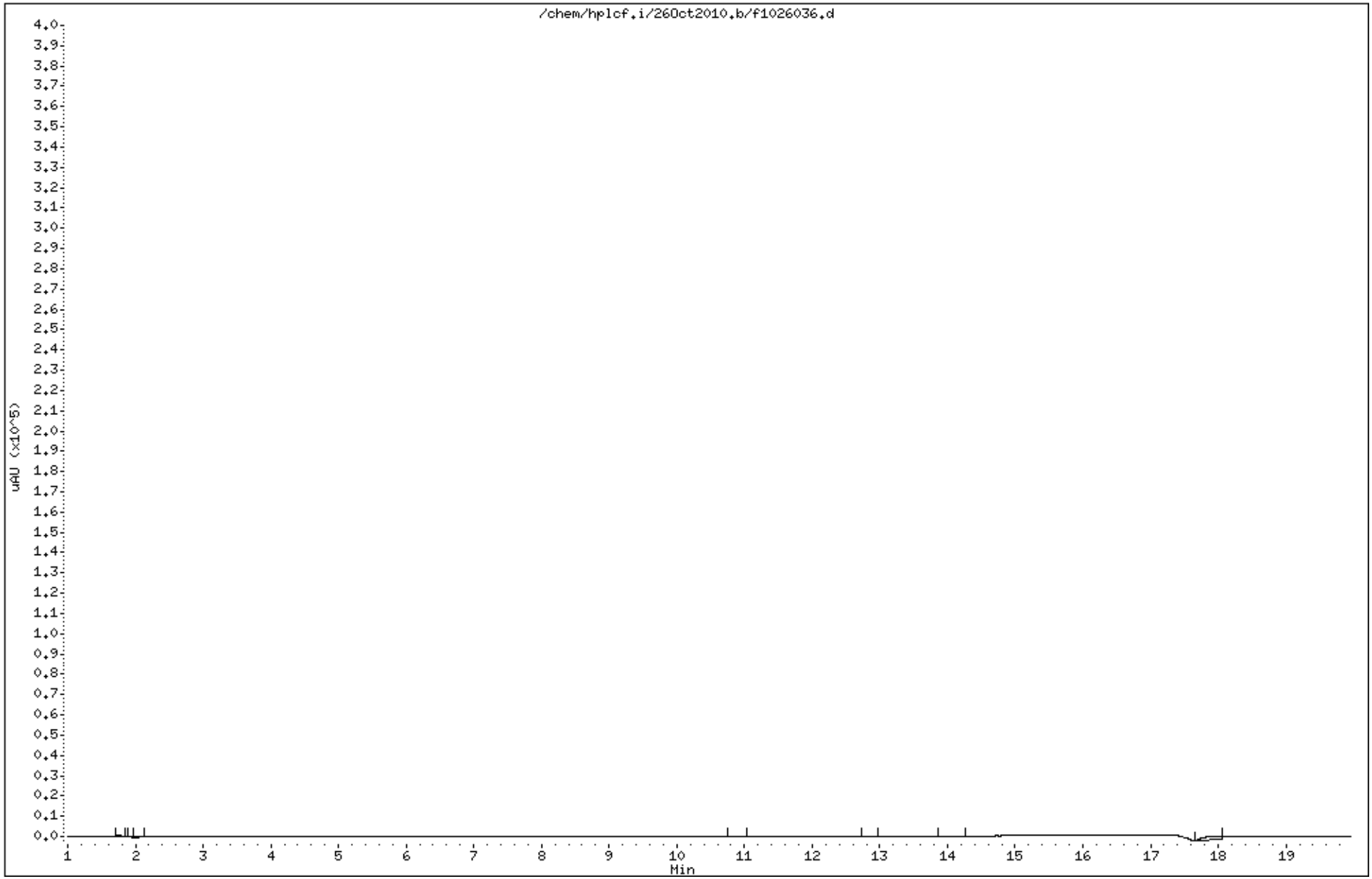
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name: Client SDG: 26Oct2010
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: CRL
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
119-26-6	DNPH	0.00	
50-00-0	FORMALDEHYDE	10.7	
75-07-0	ACETALDEHYDE	10.2	
107-02-8	ACROLEIN	10.5	
67-64-1	ACETONE	9.93	
123-38-6	PROPANAL	9.78	
123-73-9	CROTONAL	9.91	
9999-9999-007	BUTYRALS/MEK	10.1	
100-52-7	BENZALDEHYDE	9.85	
590-86-3	ISO-PENTANAL	10.1	
110-62-3	PENTANAL	10.1	
529-20-4	O-TOLUALDEHYDE	10.9	
620-23-51	M,P-TOLUALDEHYDE	19.9	
66-25-1	HEXANAL	10.0	
5779-94-2	2,5-Dimethylbenzaldehyde	10.8	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026047.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 27-OCT-2010 00:21
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	3.732	3.728	0.004	1173940	10.7234	10.7
3 ACETALDEHYDE	4.359	4.354	0.005	869966	10.2158	10.2
4 ACROLEIN	5.065	5.061	0.004	853255	10.5169	10.5
5 ACETONE	5.265	5.261	0.004	618808	9.92885	9.93
6 PROPANAL	5.512	5.508	0.004	612832	9.77651	9.78
7 CROTONAL	6.445	6.428	0.017	564237	9.90862	9.91
9 BUTYRALS/MEK	7.098	7.088	0.010	545192	10.0713	10.1
10 BENZALDEHYDE	8.105	8.088	0.017	376884	9.85089	9.85
11 ISO-PENTANAL	9.152	9.128	0.024	457640	10.0678	10.1
12 PENTANAL	9.819	9.794	0.025	449993	10.0669	10.1
14 O-TOLUALDEHYDE	10.925	10.894	0.031	397238	10.8934	10.9
15 M,P-TOLUALDEHYDE	11.232	11.208	0.024	611070	19.9476	19.9
16 HEXANAL	12.765	12.748	0.017	404982	10.0407	10.0
17 2,5-Dimethylbenzaldehyde	13.372	13.354	0.018	320084	10.8522	10.8

Report Date: 27-Oct-2010 12:49

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26Oct2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: CRL
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/26Oct2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.7	107.23	90-110
3 ACETALDEHYDE	10.0	10.2	102.16	90-110
4 ACROLEIN	10.0	10.5	105.17	90-110
5 ACETONE	10.0	9.93	99.29	90-110
6 PROPANAL	10.0	9.78	97.77	90-110
7 CROTONAL	10.0	9.91	99.09	90-110
9 BUTYRALS/MEK	10.0	10.1	100.71	90-110
10 BENZALDEHYDE	10.0	9.85	98.51	90-110
11 ISO-PENTANAL	10.0	10.1	100.68	90-110
12 PENTANAL	10.0	10.1	100.67	90-110
14 O-TOLUALDEHYDE	10.0	10.9	108.93	90-110
15 M,P-TOLUALDEHYDE	20.0	19.9	99.74	90-110
16 HEXANAL	10.0	10.0	100.41	90-110
17 2,5-Dimethylbenzal	10.0	10.8	108.52	90-110

Data File: /chem/hplcf.i/26Oct2010.b/f1026047.d

Date : 27-OCT-2010 00:21

Client ID: CCV

Instrument: hplcf.i

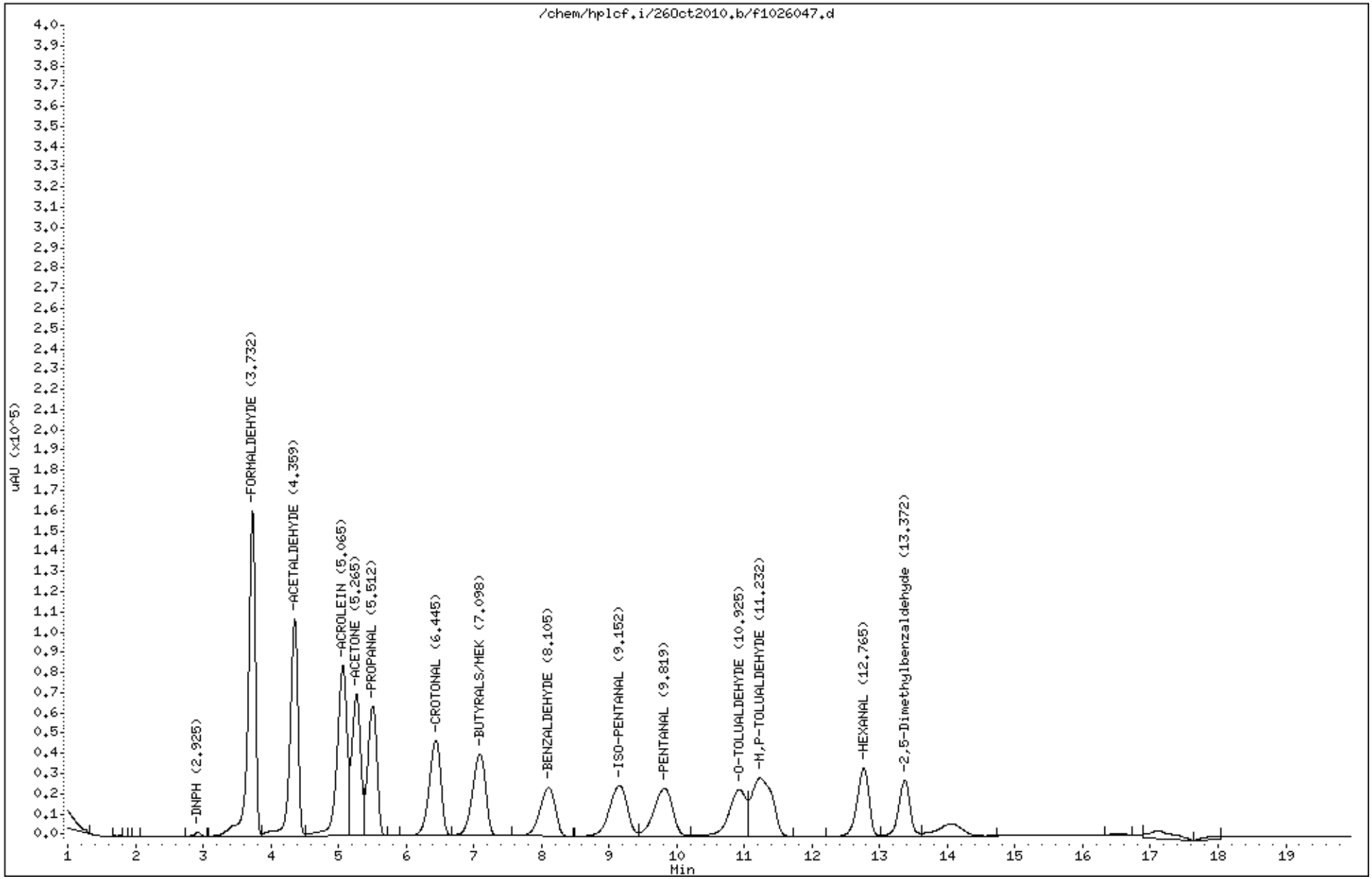
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplcf.i Injection Date: 27-OCT-2010 13:21
Lab File ID: f1027002.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/27Oct2010.b/F10D0914.m

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1	DNPH	++++	132	0.100	++++	10.00000	Averaged	<-
2	FORMALDEHYDE	109474	113698	0.010	-3.85825	10.00000	Averaged	
3	ACETALDEHYDE	85159	83760	0.010	1.64219	10.00000	Averaged	
4	ACROLEIN	81132	82859	0.010	-2.12881	10.00000	Averaged	
5	ACETONE	62324	60722	0.010	2.57139	10.00000	Averaged	
6	PROPANAL	62684	59913	0.010	4.42143	10.00000	Averaged	
7	CROTONAL	56944	55073	0.010	3.28548	10.00000	Averaged	
9	BUTYRALS/MEK	54133	52341	0.010	3.31103	10.00000	Averaged	
10	BENZALDEHYDE	38259	37174	0.010	2.83610	10.00000	Averaged	
11	ISO-PENTANAL	45456	44947	0.010	1.11950	10.00000	Averaged	
12	PENTANAL	44700	43902	0.010	1.78611	10.00000	Averaged	
14	O-TOLUALDEHYDE	36466	35685	0.010	2.14334	10.00000	Averaged	
15	M,P-TOLUALDEHYDE	30634	29892	0.010	2.42255	10.00000	Averaged	
16	HEXANAL	40334	39323	0.010	2.50548	10.00000	Averaged	
17	2,5-Dimethylbenzaldehyde	29495	28161	0.010	4.52190	10.00000	Averaged	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/27Oct2010.b/f1027002.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 27-OCT-2010 13:21
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/27Oct2010.b/F10D0914.m
Meth Date : 27-Oct-2010 17:12 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	3.736	3.736	0.000	1136980	10.0000	10.4
3 ACETALDEHYDE	4.356	4.356	0.000	837601	10.0000	9.84
4 ACROLEIN	5.069	5.069	0.000	828586	10.0000	10.2
5 ACETONE	5.263	5.263	0.000	607216	10.0000	9.74
6 PROPANAL	5.510	5.510	0.000	599125	10.0000	9.56
7 CROTONAL	6.430	6.430	0.000	550732	10.0000	9.67
9 BUTYRALS/MEK	7.076	7.076	0.000	523409	10.0000	9.67
10 BENZALDEHYDE	8.083	8.083	0.000	371738	10.0000	9.72
11 ISO-PENTANAL	9.130	9.130	0.000	449472	10.0000	9.89
12 PENTANAL	9.790	9.790	0.000	439018	10.0000	9.82
14 O-TOLUALDEHYDE	10.896	10.896	0.000	356845	10.0000	9.78
15 M,P-TOLUALDEHYDE	11.203	11.203	0.000	597832	20.0000	19.5
16 HEXANAL	12.743	12.743	0.000	393234	10.0000	9.75
17 2,5-Dimethylbenzaldehyde	13.343	13.343	0.000	281612	10.0000	9.55

Data File: /chem/hplcf.i/27Oct2010.b/f1027002.d

Date : 27-OCT-2010 13:21

Client ID: CCV

Instrument: hplcf.i

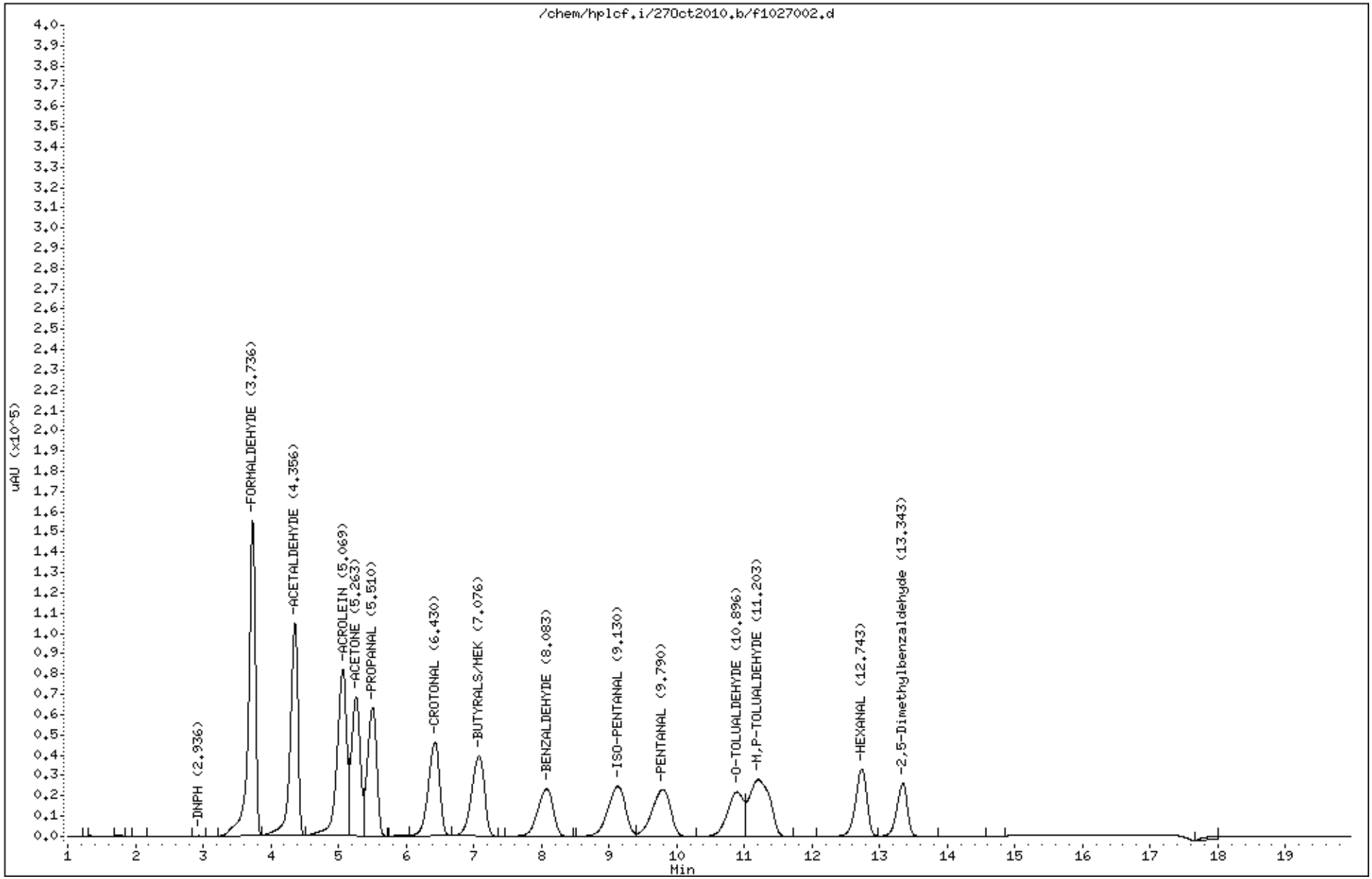
Sample Info: ;1838-41-10;CCV

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/27Oct2010.b/f1027003.d
Lab Smp Id: CCB Client Smp ID: LAB BLANK
Inj Date : 27-OCT-2010 13:42
Operator : CRL Inst ID: hplcf.i
Smp Info : ;CCB;LAB BLANK
Misc Info :
Comment :
Method : /chem/hplcf.i/27Oct2010.b/F10D0914.m
Meth Date : 27-Oct-2010 17:12 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)
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.					
17 2,5-Dimethylbenzaldehyde	Compound Not Detected.					

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug)
==========	==	======	======	========	=======	=======

Data File: /chem/hplcf.i/27Oct2010.b/f1027003.d

Date : 27-OCT-2010 13:42

Client ID: LAB BLANK

Instrument: hplcf.i

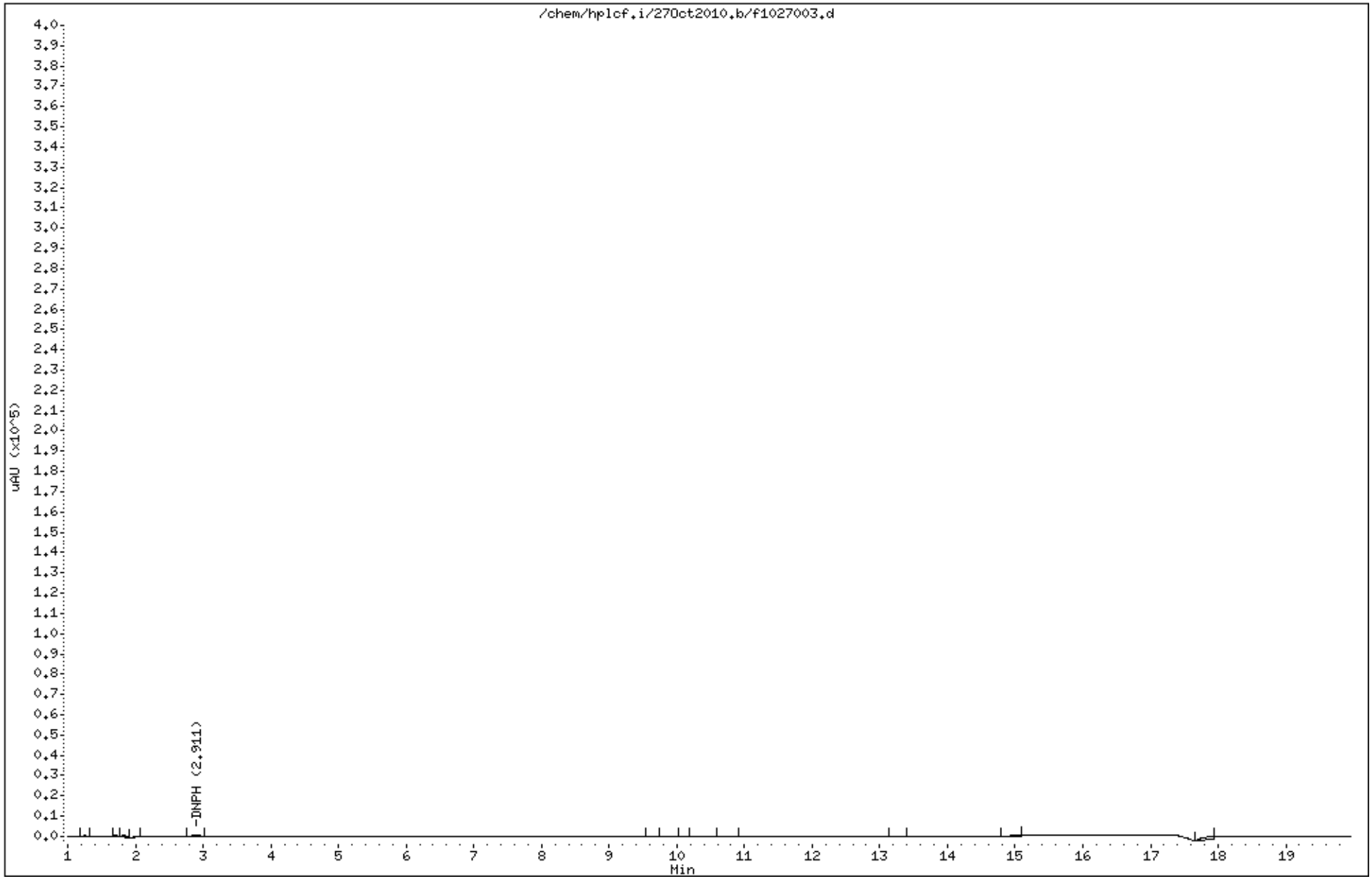
Sample Info: ;CCB;LAB BLANK

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1838-41-10
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: OTHER
Data Type: LC DATA
Misc Info:

Client SDG: 27Oct2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: CRL

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	9.99	
107-02-8	ACROLEIN	10.3	
67-64-1	ACETONE	9.80	
123-38-6	PROPANAL	9.63	
123-73-9	CROTONAL	9.76	
9999-9999-007	BUTYRALS/MEK	9.71	
100-52-7	BENZALDEHYDE	9.73	
590-86-3	ISO-PENTANAL	9.92	
110-62-3	PENTANAL	9.83	
529-20-4	O-TOLUALDEHYDE	9.93	
620-23-51	M,P-TOLUALDEHYDE	19.4	
66-25-1	HEXANAL	9.83	
5779-94-2	2,5-Dimethylbenzaldehyde	9.69	

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/27Oct2010.b/f1027009.d
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Inj Date : 27-OCT-2010 15:47
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1838-41-10;CCV
Misc Info :
Comment :
Method : /chem/hplcf.i/27Oct2010.b/F10D0914.m
Meth Date : 27-Oct-2010 17:12 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	3.704	3.736	-0.032	1134534	10.3635	10.4
3 ACETALDEHYDE	4.324	4.356	-0.032	850608	9.98851	9.99
4 ACROLEIN	5.031	5.069	-0.038	833453	10.2729	10.3
5 ACETONE	5.231	5.263	-0.032	610583	9.79689	9.80
6 PROPANAL	5.471	5.510	-0.039	603951	9.63483	9.63
7 CROTONAL	6.378	6.430	-0.052	555735	9.75931	9.76
9 BUTYRALS/MEK	7.024	7.076	-0.052	525473	9.70703	9.71
10 BENZALDEHYDE	8.011	8.083	-0.072	372118	9.72632	9.73
11 ISO-PENTANAL	9.065	9.130	-0.065	451080	9.92343	9.92
12 PENTANAL	9.718	9.790	-0.072	439512	9.83243	9.83
14 O-TOLUALDEHYDE	10.831	10.896	-0.065	362202	9.93257	9.93
15 M,P-TOLUALDEHYDE	11.145	11.203	-0.058	593458	19.3727	19.4
16 HEXANAL	12.704	12.743	-0.039	396340	9.82645	9.83
17 2,5-Dimethylbenzaldehyde	13.311	13.343	-0.032	285948	9.69483	9.69

Report Date: 27-Oct-2010 17:16

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Oct2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-41-10 Client Smp ID: CCV
Level: MED Operator: CRL
Data Type: LC DATA SampleType: METHSPIKE
SpikeList File: 10ug.spk Quant Type: ESTD
Sublist File: all.sub
Method File: /chem/hplcf.i/27Oct2010.b/F10D0914.m
Misc Info:

	SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2	FORMALDEHYDE	10.0	10.4	103.63	90-110
3	ACETALDEHYDE	10.0	9.99	99.89	90-110
4	ACROLEIN	10.0	10.3	102.73	90-110
5	ACETONE	10.0	9.80	97.97	90-110
6	PROPANAL	10.0	9.63	96.35	90-110
7	CROTONAL	10.0	9.76	97.59	90-110
9	BUTYRALS/MEK	10.0	9.71	97.07	90-110
10	BENZALDEHYDE	10.0	9.73	97.26	90-110
11	ISO-PENTANAL	10.0	9.92	99.23	90-110
12	PENTANAL	10.0	9.83	98.32	90-110
14	O-TOLUALDEHYDE	10.0	9.93	99.33	90-110
15	M,P-TOLUALDEHYDE	20.0	19.4	96.86	90-110
16	HEXANAL	10.0	9.83	98.26	90-110
17	2,5-Dimethylbenzal	10.0	9.69	96.95	90-110

Data File: /chem/hplcf.i/27Oct2010.b/f1027009.d

Date : 27-OCT-2010 15:47

Client ID: CCV

Instrument: hplcf.i

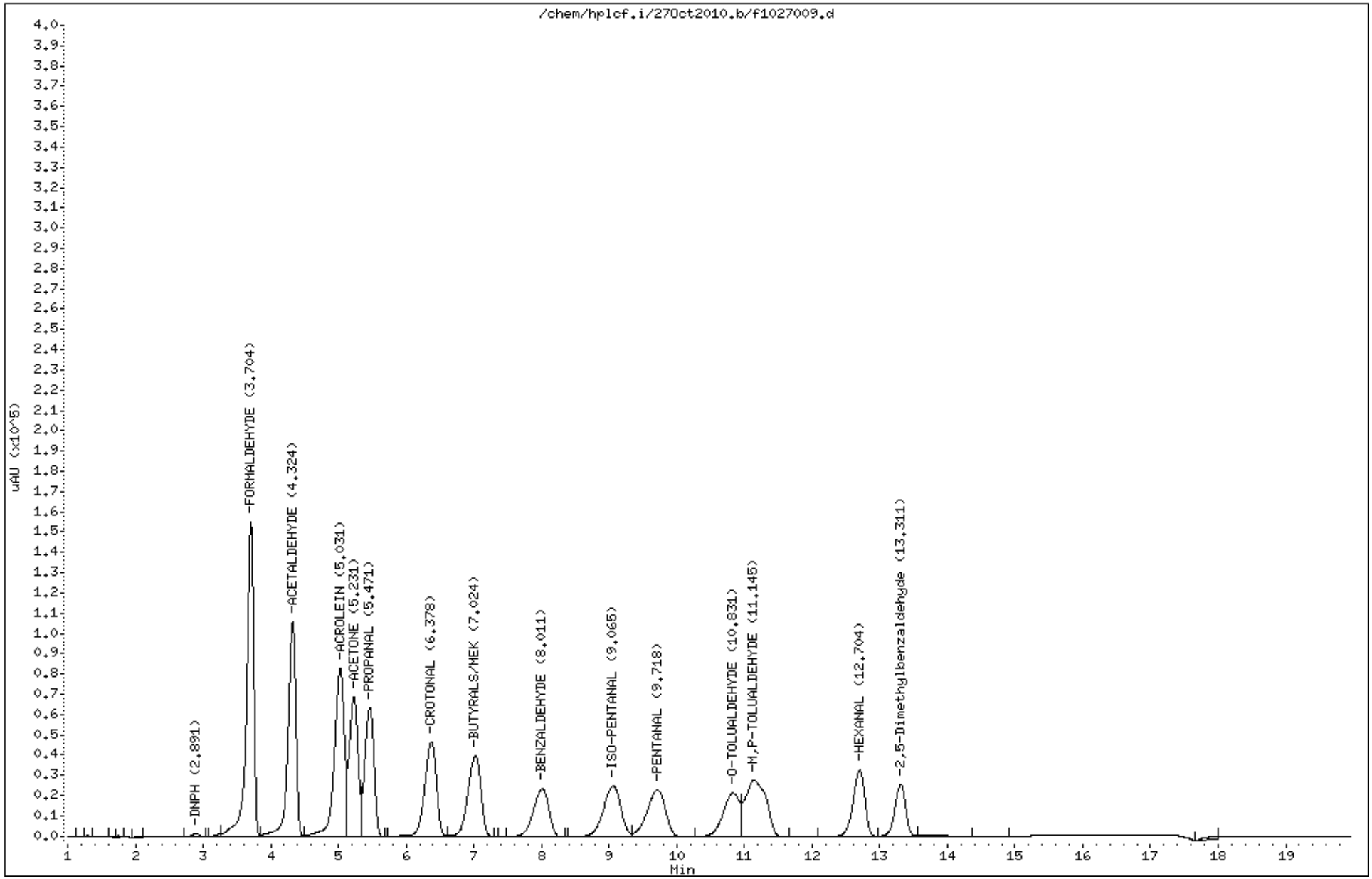
Sample Info: ;1838-41-10;CCV

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1010294B-12A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1026027**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/10 05:24 PM**
		Date of Extraction: 10/22/10

Compound	%Recovery
Formaldehyde	101

Container Type: NA - Not Applicable

Report Date: 27-Oct-2010 12:48

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26Oct2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1010294B Client Smp ID: LCS
Level: MED Operator: CRL
Data Type: LC DATA SampleType: LCS
SpikeList File: Form15.spk Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/26Oct2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	15.2	101.53	70-130

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026027.d
Lab Smp Id: 1010294B Client Smp ID: LCS
Inj Date : 26-OCT-2010 17:24
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B;LCS
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	2.936	2.921	0.015	25189025		
2 FORMALDEHYDE	3.756	3.728	0.028	4167898	38.0719	15.2

Data File: /chem/hplcf.i/26Oct2010.b/f1026027.d

Date : 26-OCT-2010 17:24

Client ID: LCS

Instrument: hplcf.i

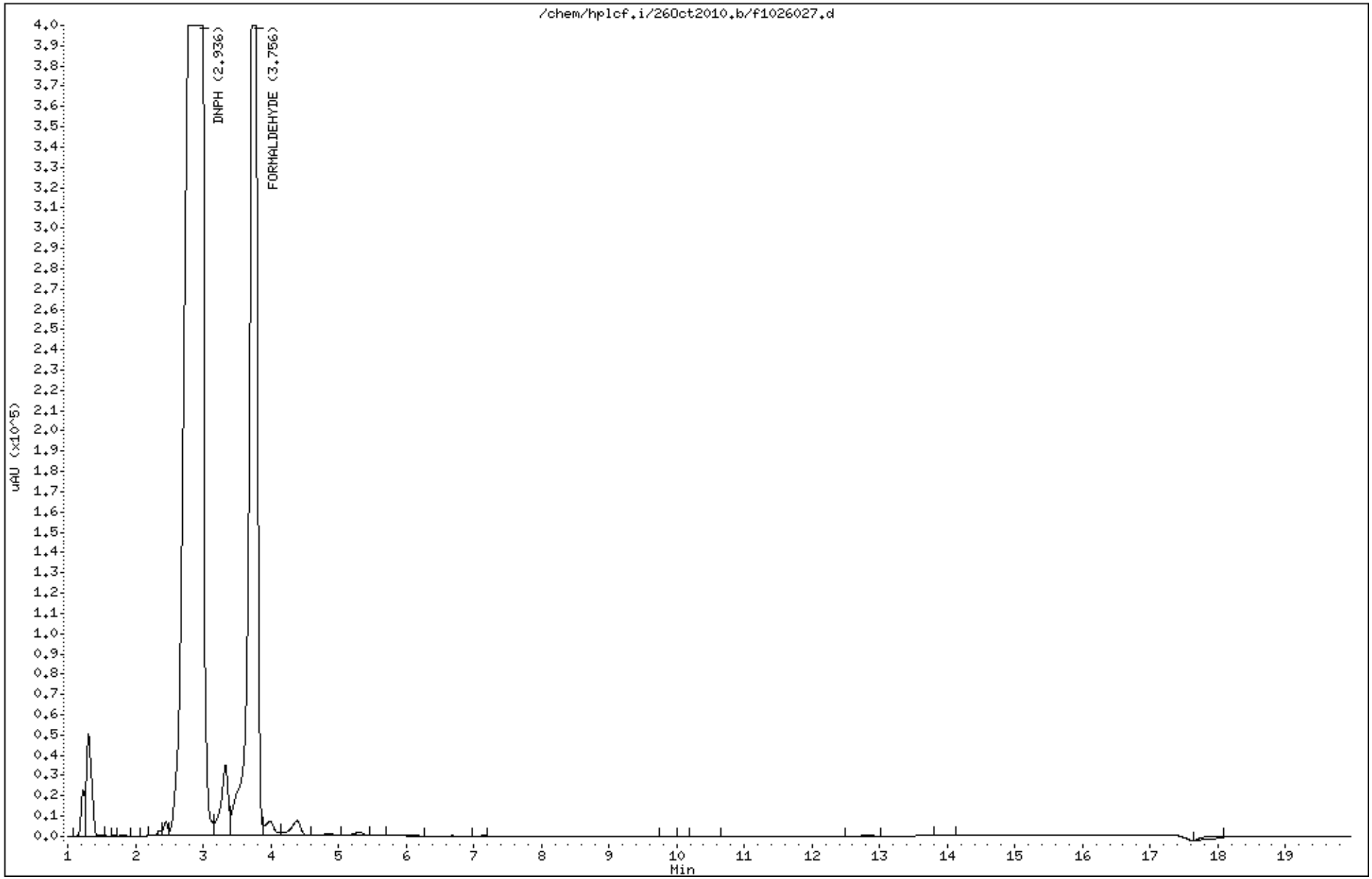
Sample Info: ;1010294B;LCS

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1010294B-12AA

RADIELLO ANALYSIS BY HPLC/UV

File Name:	**f1026028**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/26/10 05:45 PM**
		Date of Extraction: 10/22/10

Compound	%Recovery
Formaldehyde	101

Container Type: NA - Not Applicable

Report Date: 27-Oct-2010 12:48

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 26Oct2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1010294B Client Smp ID: LCSD
Level: MED Operator: CRL
Data Type: LC DATA SampleType: LCSD
SpikeList File: Form15.spk Quant Type: ESTD
Sublist File: form.sub
Method File: /chem/hplcf.i/26Oct2010.b/F10D0914.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	15.2	101.47	70-130

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165
Data file : /chem/hplcf.i/26Oct2010.b/f1026028.d
Lab Smp Id: 1010294B Client Smp ID: LCSD
Inj Date : 26-OCT-2010 17:45
Operator : CRL Inst ID: hplcf.i
Smp Info : ;1010294B;LCSD
Misc Info :
Comment :
Method : /chem/hplcf.i/26Oct2010.b/F10D0914.m
Meth Date : 26-Oct-2010 14:38 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	2.935	2.921	0.014	24992628		
2 FORMALDEHYDE	3.755	3.728	0.027	4165533	38.0503	15.2

Data File: /chem/hplcf.i/26Oct2010.b/f1026028.d

Date : 26-OCT-2010 17:45

Client ID: LCSD

Instrument: hplcf.i

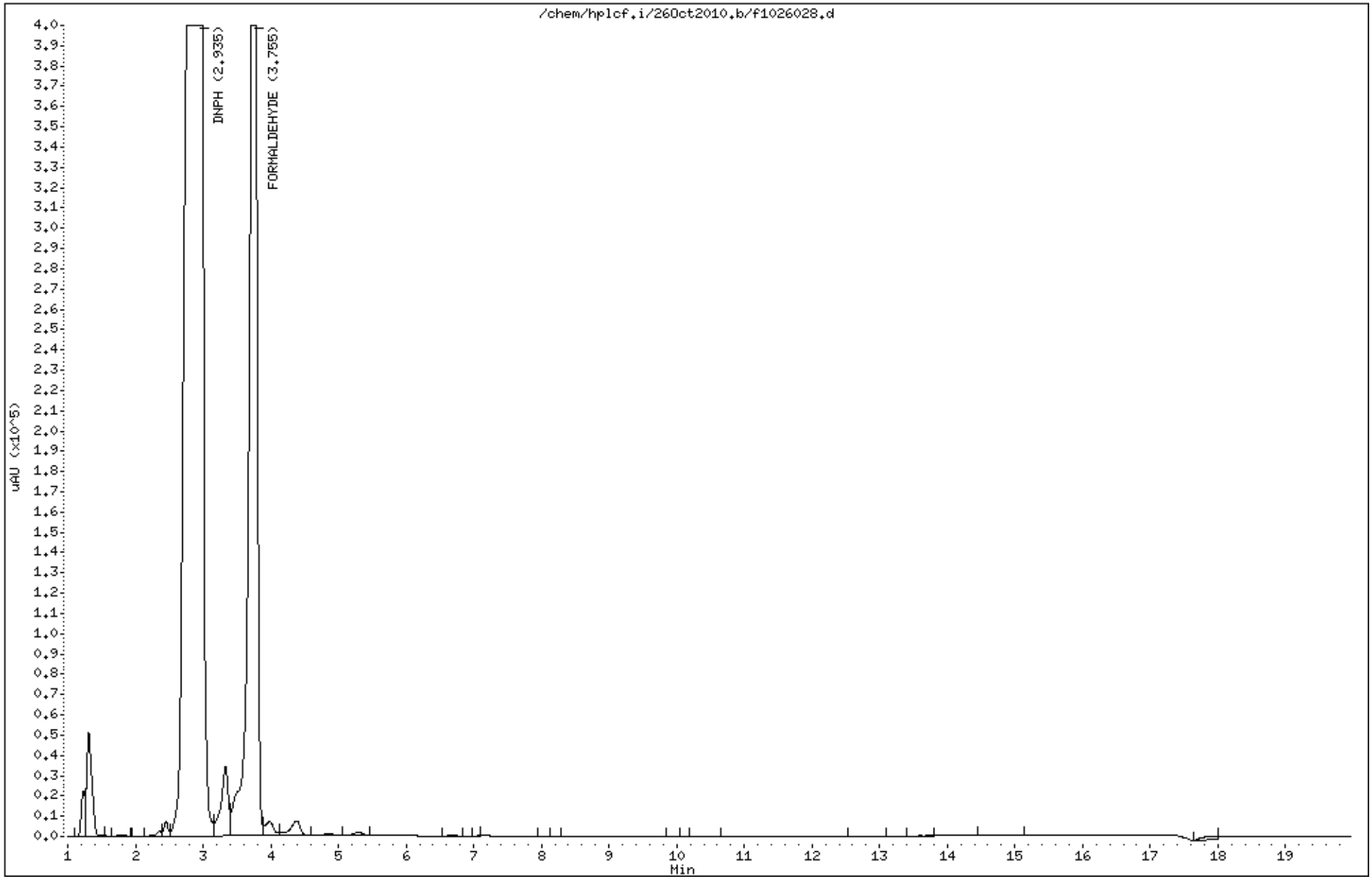
Sample Info: ;1010294B;LCSD

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



TO-11 Extraction Logbook

@Air Toxics Ltd.

Log Book #: 2010

ATL Work Order # 1010294B
Date Extracted 10/22/10

Final Solvent: ACN
Spike I.D.: 1476-1963 500ng/mL
Spike Witness: Fm

Solvent Lot #: 094016
Spiked By: MJS

ATL Fraction	Clients I.D. #	Cartridge type & size	Final Volume (ml)	Spike Amount (ul)	Comments
1010294B -BLK	N/A	Radiello, 165	2.0mL	N/A	Lot: 10204
-LCS	↓			30uL	Lot: 10048
-07A	115917			N/A	
-08A	115918				
-09A	115920				
-10A	115921				
					MJS 10/25/10

Comments:

MJS 10/25/10

Signed

10/25/10
Date

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

Method: RAD165 Pressure: 113 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
X	f1026001	ACN WASH	1.00	CRL	10/26/10	0839 (18 CRL 10/26/10)	CRL	Instrument turned off after CCB
X	2	CCV 1838-41-10 ug				0839		
X	3	CCB				0900		
✓	4	ACN WASH				0923		
✓	5	CCV1838-41-10 ug				0944		
✓	6	CCB				1005		
✓	7	1010270A-03A	10.0			1026		
✓	8	1010270B-21A				1047		
✓	9	-22A				1108		
✓	10	-23A				1129		
✓	11	-17A				1149		
✓	12	-18A				1210		
✓	13	1010262B-07A				1231		
✓	14	-08A				1252		
✓	15	-09A				1313		
✓	16	CCV1838-41-10 ug	1.00			1334		
✓	17	CCB				1355		
✓	18	1010270C-36A	10.0			1416		
✓	19	-37A				1437		
✓	20	-38A				1457		
✓	21	-41A				1518		
✓	22	-42A				1539		
✓	23	-43A				1600		
✓	24	1838-41-10 ug CCV	1.00			1621		
✓	25	CCB				1642		
✓	26	1010294B-LabBlank				1703		
✓	27	-LCS				1724		
✓	28	-LCSD				1745		

Calculation Check:

File ID: f1026012 d Compound: Formaldehyde Initials: CRL

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}}$ × DF = $\frac{(\text{CRL 10/26/10 } \cancel{1967}\ 1985048)}{(109474)}$ × ($\frac{2}{5}$ × 10) = **72.5**

Reported Result: **72.5**

Casey Leaf 10/26/10

Signed Date

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

Method: RAD165 Pressure: 113 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	F1026029	1010462A-LabBlank	1.00	CW	10/26/10	1805	CW	
✓	30	-LCS				1826		
✓	31	-LCSD				1847		
✓	32	1010462B-LabBlank				1908		
✓	33	-LCS				1929		
✓	34	-LCSD				1950		
✓	35	1838-41-10.0ngCCV				2011		
✓	36	CCB				2032		
O	37	1010294B-07A				2053		O=overrange
O	38	-08A				2113		
✓	39	-09A				2134		
✓	40	-10A				2155		
O	41	1010462A-01A				2216		
O	42	-02A				2237		
O	43	-03A				2258		
✓	44	-04A				2319		
✓	45	-05A				2340		
O	46	-06A			10/27/10	0001		
✓	47	1838-41-10ng CCV				0021		
✓	48	CCB				0042		
O	49	1010462A-07A				0103		
O	50	-08A				0124		
✓	51	-09A				0145		
✓	52	-10A				0206		
O	53	-11A				0227		
O	54	-12A				0248		
O	55	-13A				0309		
✓	56	-14A				0329		

Calculation Check:

File ID: ~~Compound:~~ Initials:

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

Reported Result: [ ] CW 10/27/10

Cary Lee 10/27/10

Signed Date

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

Method: RAD165 Pressure: 129 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1027001	ACNWASH	1.00	CRL	10/27/10	1300	CRL	
✓	2	1838-41-10.0ng CCV				1321		
✓	3	CCB				1342		
✓	4	1010487-LabBlank				1403		
✓	5	-LCS				1424		
✓	6	-LCSD	↓			1445		
✓	7	10102948-07A	10.0			1506		
✓	8	-08A	↓			1526		
✓	9	CCV1838-41-10.0ng	1.00			1547		

Calculation Check:

File ID: f1027002.d Compound: Acetaldehyde Initials: CRL

Sample Amt = Area Counts Sample / RF × DF = (837601 / 85159) × (1.00) = 9.84

Reported Result: 9.84

Carey Leaf 10/27/10

Signed Date

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

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

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

For corrections ca **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

1010294

DATE: 13 OCT 10

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 # 17314

The cost of this analysis will be covered by EH&E Purchase Order # 17314

For EH & E Data Coordinator - URGENT DATA ☒

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
115911	Air/Passive	H_2S Analysis	13D 17H 30M
115912			
115913			
115914			
115915			ØD
115916			
07A 115917	Air/Passive	Formaldehyde Analysis	13D 17H 30M
08A 115918			
~~115919~~			
09A 115920			
10A 115921			ØD

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: 10/13/10

Received by: _____ of (company name) ATL Date: 10-14-10 0907

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: _____

Page 1 of 1

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 1010294B

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: 10/28/10
Date Completed: 10/27/10
Date Received: 10/14/10
PO#: 17314
Project#: 17314

Total $: $ 380.00
Logged By: BSW

Fraction	Sample #	Analysis	Collected	Amount$
07A	115917	Modified TO-11A	10/13/2010	$90.00
08A	115918	Modified TO-11A	10/13/2010	$90.00
09A	115920	Modified TO-11A	10/13/2010	$90.00
10A	115921	Modified TO-11A	10/13/2010	$90.00
11A	Lab Blank	Modified TO-11A	NA	$0.00
12A	LCS	Modified TO-11A	NA	$0.00
12AA	LCSD	Modified TO-11A	NA	$0.00
Misc. Charges	eCVP (4) @ $5.00 each.			$20.00

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

Sample Discrepancy Report

Identification

Initiated By: BW **Project ID:**14482 **PM**: AS **Date:** 10/14/2010 **Discrepancy Type:** ☒ **1.** ☐ **2.** ☐ **3.**

Workorder(s) affected:1010294A/B **Sample(s) affected:** 01A-10A

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
1.2. ☐ No brass cap on canister.
1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.
1.6. ☐ COC improperly relinquished / received.
1.7. ☐ Sample tags / can numbers do not match the COC.
1.8. ☒ Sample date ☐ error / ☒ missing on COC but noted on sample tag (check one).
1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).
1.10. ☐ ID-none on the sample Tag/Blank
1.11. ☐ Other (describe below).

Describe the Discrepancy: DOC not specified on sample tag or COC

2. Sample Receipt/Screening Discrepancies requiring PM notification

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

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

2.1. ☐ COC was not received with samples.
2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.
2.3. ☐ Incorrect sampling media / container for analysis requested.
2.4. ☐ Number of samples on the COC does not match the number of samples that were received.
2.5. ☐ Samples were received expired.
2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).
2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.
2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.
2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.
2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.
2.11. ☐ Environmental Supply Company valves
2.12. ☐ Sorbent samples-sampling volume was not provided
2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.
2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
- ☐ Canister failed leak check on two manifolds,
- ☐ Canister valve was open,
- ☐ Brass nut was loose/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.
2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
2.17. ☐ Canister Trip Blank received at low vacuum (< 25"Hg).
2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).
2.19. ☐ Other (describe below)

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

Describe the Discrepancy:

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

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

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

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

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

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

3.5. ☐ VOST tube saturated; bag dilution necessary.

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

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

3.8. ☐ Reporting Limit was raised.

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

3.10. ☐ Other (describe below).

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

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

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

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

Action:

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

PM Initials:_____ Date: _____

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

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

_____

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

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

Compound List

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 #: 1010294B

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.
☐	☐	N/A				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
☐	☐	N/A	☐	☐	☐	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
		N/A	☐	☐	☐	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)
		N/A	☐			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.)
☐	☐	N/A	☐			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) 10/6/10
☐	☐	N/A				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) RAD165
☐	☐	☐				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: 1) Dup = LCS/LCSD 2) Final volume = 2.0mL

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: Casey Leaf 10/27/10	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