

**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 #: 1012041A

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Comments:

Completed by:

Kara McKiernan

(Signature)

Kara McKiernan / Document Control

(Print Name & Title)

12/16/10

(Date)

WORK ORDER #: 1012041A

Work Order Summary

CLIENT:	Mr. Brian Baker Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	BILL TO:	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	P.O. #	17131
FAX:	781-247-4305	PROJECT #	17131
DATE RECEIVED:	12/02/2010	CONTACT:	Ausha Scott
DATE COMPLETED:	12/15/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	116747	Modified TO-11A
02A	116748	Modified TO-11A
03A	116749	Modified TO-11A
04A	116750	Modified TO-11A
05A	116751	Modified TO-11A
06A	116763	Modified TO-11A
07A	116764	Modified TO-11A
08A	116765	Modified TO-11A
09A	116766	Modified TO-11A
10A	116767	Modified TO-11A
11A	116779	Modified TO-11A
12A	116780	Modified TO-11A
13A	116781	Modified TO-11A
14A	116782	Modified TO-11A
15A	116783	Modified TO-11A
16A	Lab Blank	Modified TO-11A
17A	LCS	Modified TO-11A

Continued on next page

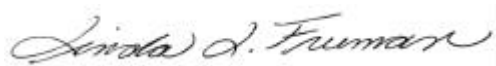
WORK ORDER #: 1012041A

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
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DATE RECEIVED:	12/02/2010	CONTACT:	Ausha Scott
DATE COMPLETED:	12/15/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
17AA	LCSD	Modified TO-11A

CERTIFIED BY:



Laboratory Director

DATE: 12/15/10

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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# 1012041A

Fifteen Radiello 165 (Aldehydes) samples were received on December 02, 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.

Analytical Notes

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

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

The actual exposure time was used to calculate sample concentrations and reporting limits. An exposure time of 21000 minutes was used for the Laboratory Blank.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Sample Extract		
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	Sample Condition
116747	1012041A-01A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116748	1012041A-02A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116749	1012041A-03A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116750	1012041A-04A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 7/2010	1	Good
116751	1012041A-05A	NA	12/ 2/2010	12/ 6/2010	NA	12/ 7/2010	1	Good
116763	1012041A-06A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116764	1012041A-07A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116765	1012041A-08A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116766	1012041A-09A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 7/2010	1	Good
116767	1012041A-10A	NA	12/ 2/2010	12/ 6/2010	NA	12/ 7/2010	1	Good
116779	1012041A-11A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116780	1012041A-12A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116781	1012041A-13A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 8/2010	2	Good
116782	1012041A-14A	11/29/2010	12/ 2/2010	12/ 6/2010	7	12/ 7/2010	1	Good
116783	1012041A-15A	NA	12/ 2/2010	12/ 6/2010	NA	12/ 7/2010	1	Good
Lab Blank	1012041A-16A	NA	NA	12/ 6/2010	NA	12/ 7/2010	1	Good
LCS	1012041A-17A	NA	NA	12/ 6/2010	NA	12/ 7/2010	1	Good
LCSD	1012041A-17AA	NA	NA	12/ 6/2010	NA	12/ 7/2010	1	Good

Sample Results and Raw Data

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116747

Lab ID#: 1012041A-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	4.9	82	40

Client Sample ID: 116747

Lab ID#: 1012041A-01A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207044

Date of Collection: 11/29/10

Dil. Factor: 10.0

Date of Analysis: 12/8/10 12:51 AM

Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	4.9	82	40

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207044.d

Lab Smp Id: 1012041A-01AClient Smp ID: 10

Inj Date : 08-DEC-2010 00:51

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-01A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.944	2.941	0.003	2104278		
2 FORMALDEHYDE	3.751	3.694	0.057	2243596	20.4943	82.0

Data File: /chem/hp1cf.i/07Dec2010.b/f1207044.d

Page 1

Date : 08-DEC-2010 00:51

Client ID: 10

Instrument: hp1cf.i

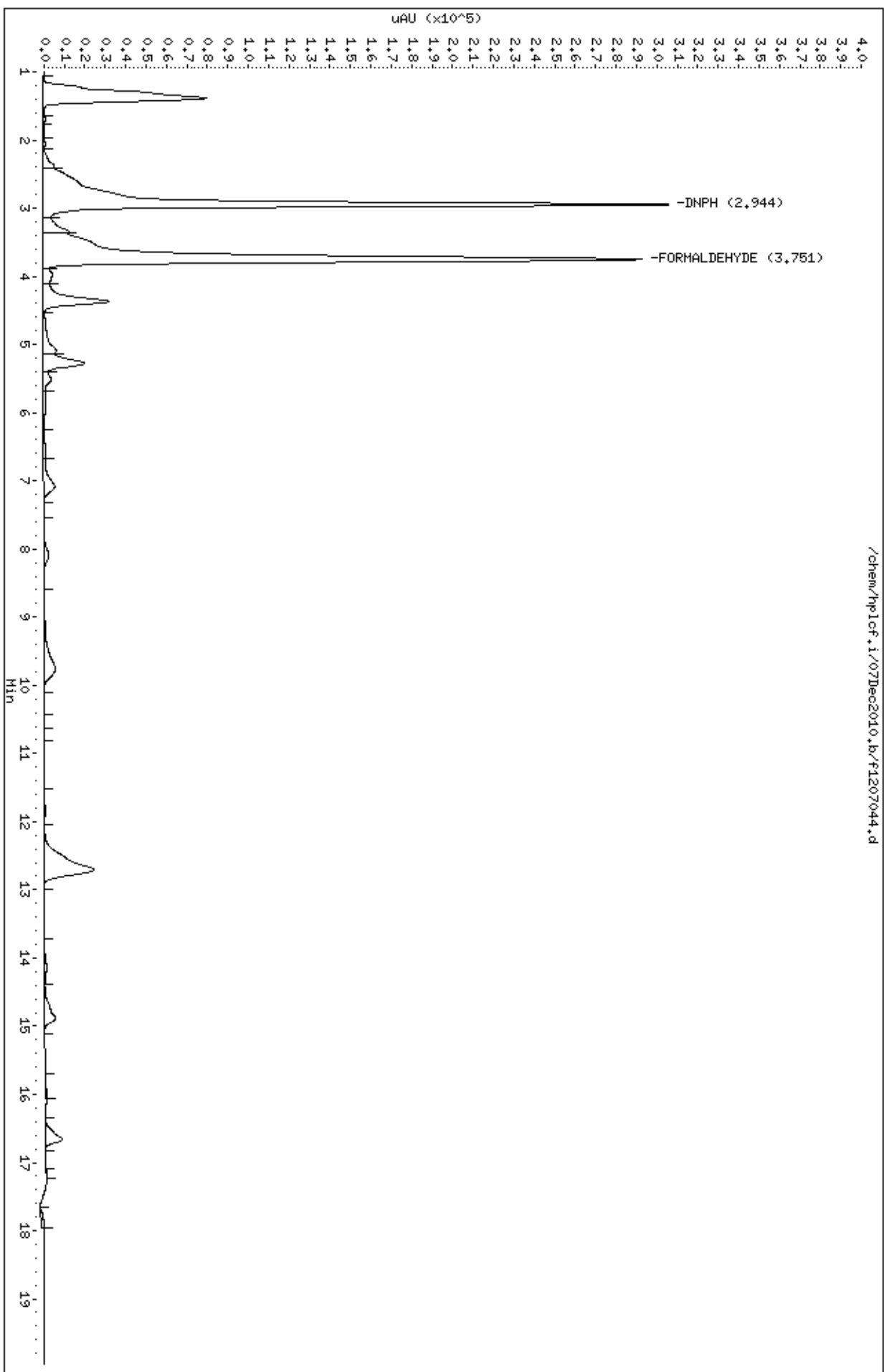
Sample Info: f1012044a-01a:10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116748

Lab ID#: 1012041A-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	4.9	81	40

Client Sample ID: 116748

Lab ID#: 1012041A-02A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207045

Date of Collection: 11/29/10

Dil. Factor: 10.0

Date of Analysis: 12/8/10 01:12 AM

Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	4.9	81	40

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207045.d

Lab Smp Id: 1012041A-02AClient Smp ID: 10

Inj Date : 08-DEC-2010 01:12

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-02A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE		ON-COLUMN	FINAL
	==	=====	=====	=====		(ng)	(ug)
=====						=====	=====
1 DNPH	2.943	2.941	0.002	2018582			
2 FORMALDEHYDE	3.743	3.694	0.049	2223496	20.3107	81.2	

Data File: /chem/hp1cf.i/07Dec2010.b/f1207045.d

Page 1

Date : 08-DEC-2010 01:12

Client ID: 10

Instrument: hp1cf.i

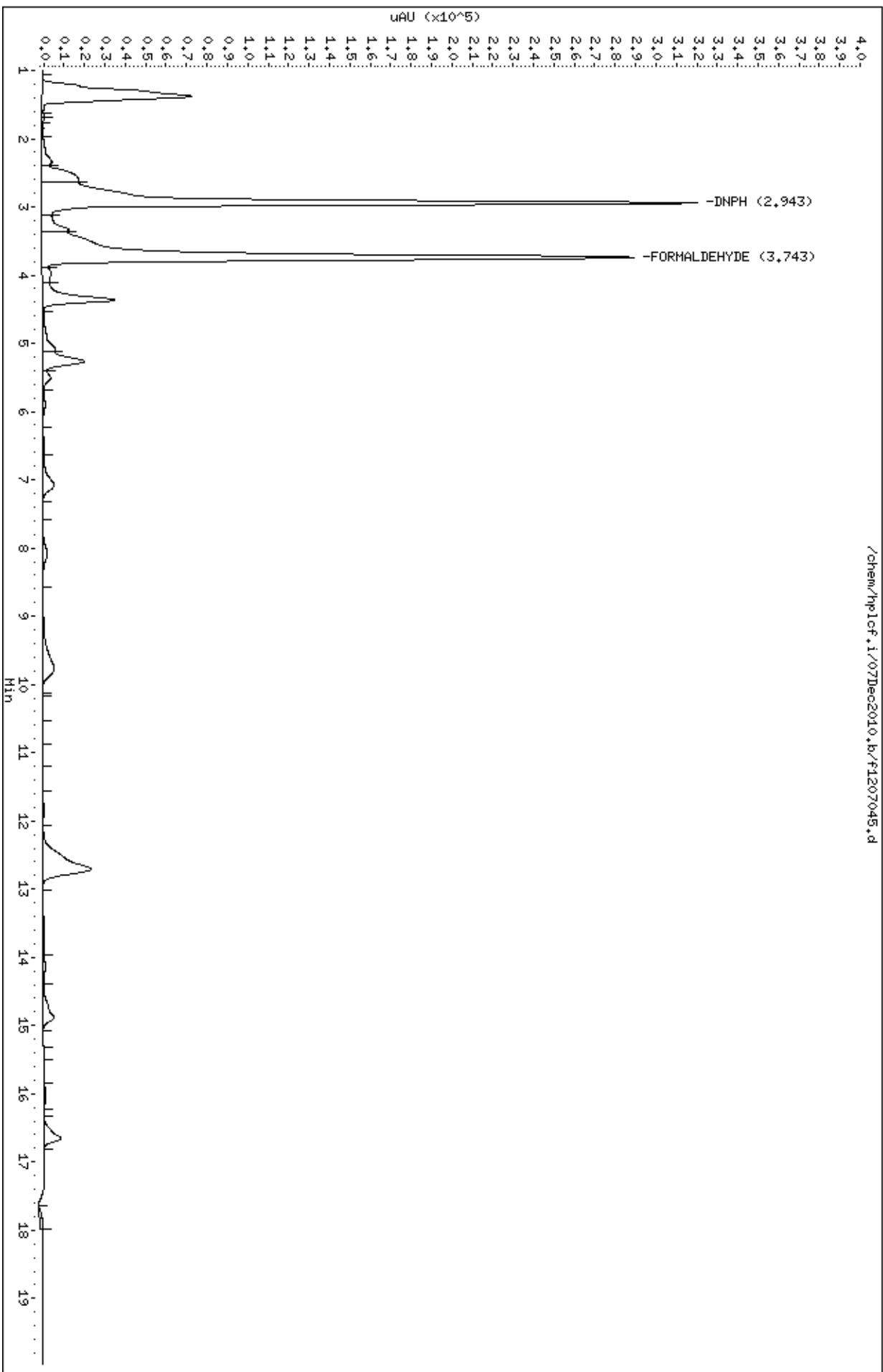
Sample Info: f1012044a-02a:10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116749

Lab ID#: 1012041A-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	4.9	76	37

Client Sample ID: 116749

Lab ID#: 1012041A-03A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207046
Dil. Factor: 10.0

Date of Collection: 11/29/10
Date of Analysis: 12/8/10 01:33 AM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	4.9	76	37

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207046.d

Lab Smp Id: 1012041A-03AClient Smp ID: 10

Inj Date : 08-DEC-2010 01:33

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-03A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.936	2.941	-0.005	1777640		
2 FORMALDEHYDE	3.743	3.694	0.049	2079368	18.9941	76.0

Data File: /chem/hp1cf.i/07Dec2010.b/f1207046.d

Page 1

Date : 08-DEC-2010 01:33

Client ID: 10

Instrument: hp1cf.i

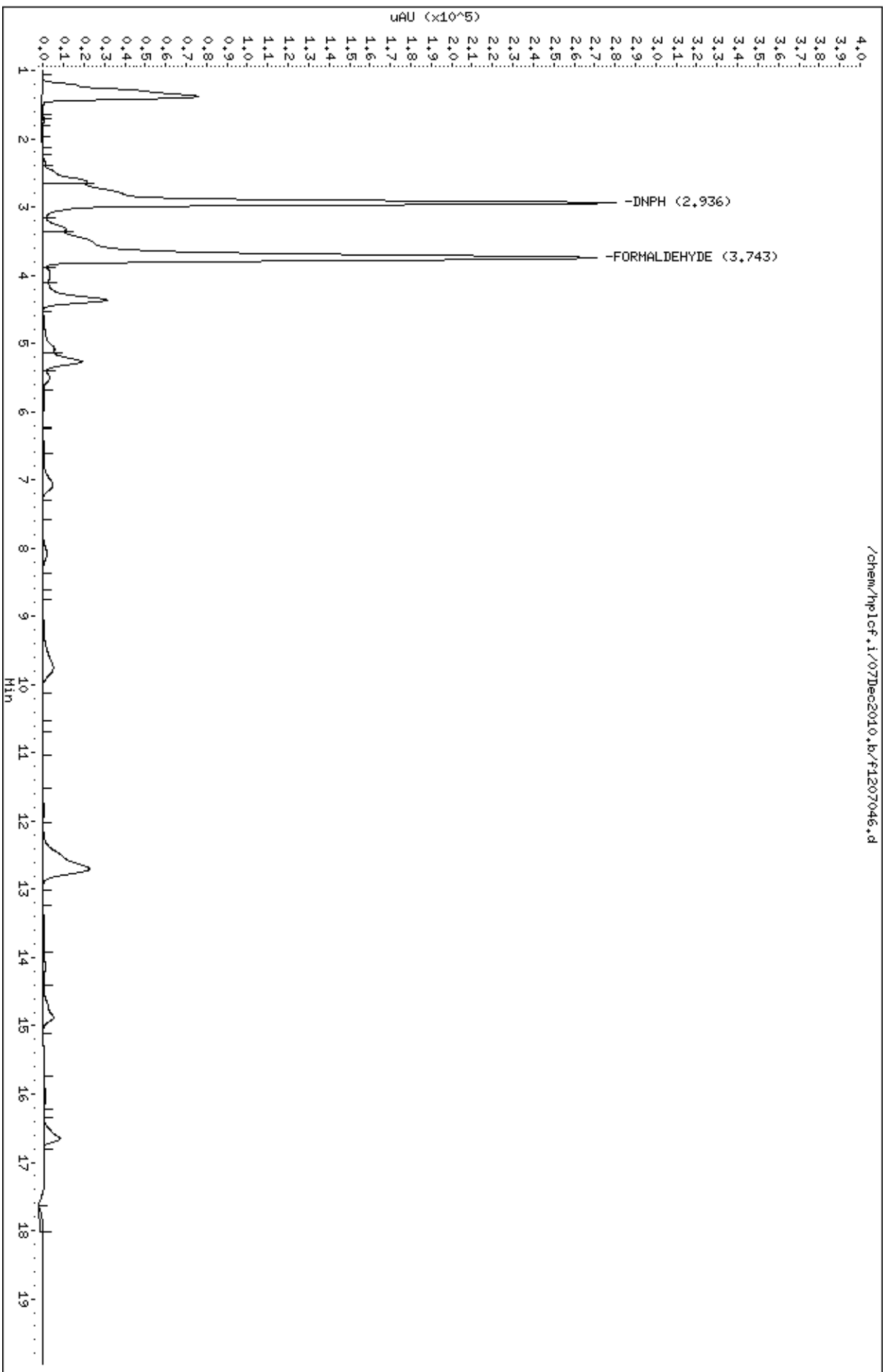
Sample Info: f1012044a-03a;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116750

Lab ID#: 1012041A-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.49	2.7	1.3

Client Sample ID: 116750

Lab ID#: 1012041A-04A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207029

Date of Collection: 11/29/10

Dil. Factor: 1.00

Date of Analysis: 12/7/10 07:37 PM

Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.49	2.7	1.3

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207029.d

Lab Smp Id: 1012041A-04A

Inj Date : 07-DEC-2010 19:37

Operator : LZ

Smp Info : ;1012041A-04A;

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhang

Cal Date : 14-SEP-2010 18:30

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon

Target Version: 3.50

Processing Host: eeyore

Inst ID: hplcf.i

Quant Type: ESTD

Cal File: f0914014.d

Compound Sublist: form.sub

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					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.954	2.941	0.013	21042793		
2 FORMALDEHYDE	3.754	3.694	0.060	728410	6.65371	2.66

Data File: /chem/hp1cf.i/07Dec2010.b/f1207029.d

Page 1

Date : 07-DEC-2010 19:37

Client ID:

Instrument: hp1cf.i

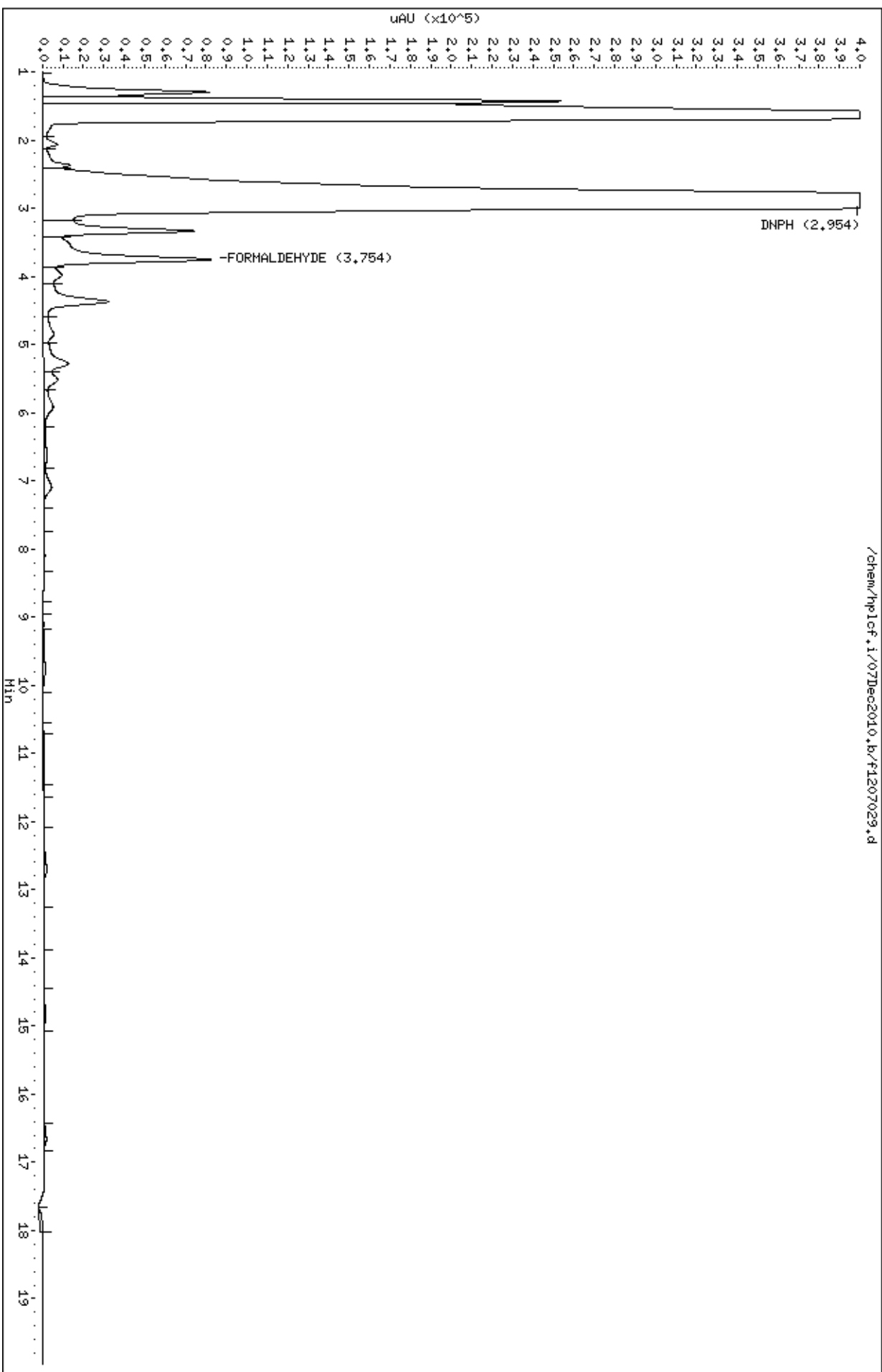
Sample Info: f1012041a-04a;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



**Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV**

Client Sample ID: 116751

Lab ID#: 1012041A-05A

No Detections Were Found.

Client Sample ID: 116751

Lab ID#: 1012041A-05A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207030
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/7/10 07:58 PM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207030.d

Lab Smp Id: 1012041A-05A

Inj Date : 07-DEC-2010 19:58

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-05A;

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)	
=====	==	=====	=====	=====	=====	=====	
1 DNPH	2.936	2.941	-0.005	27388841			
2 FORMALDEHYDE				Compound Not Detected.			

Data File: /chem/hplcf.i/07Dec2010.b/f1207030.d

Page 1

Date : 07-DEC-2010 19:58

Client ID:

Instrument: hplcf.i

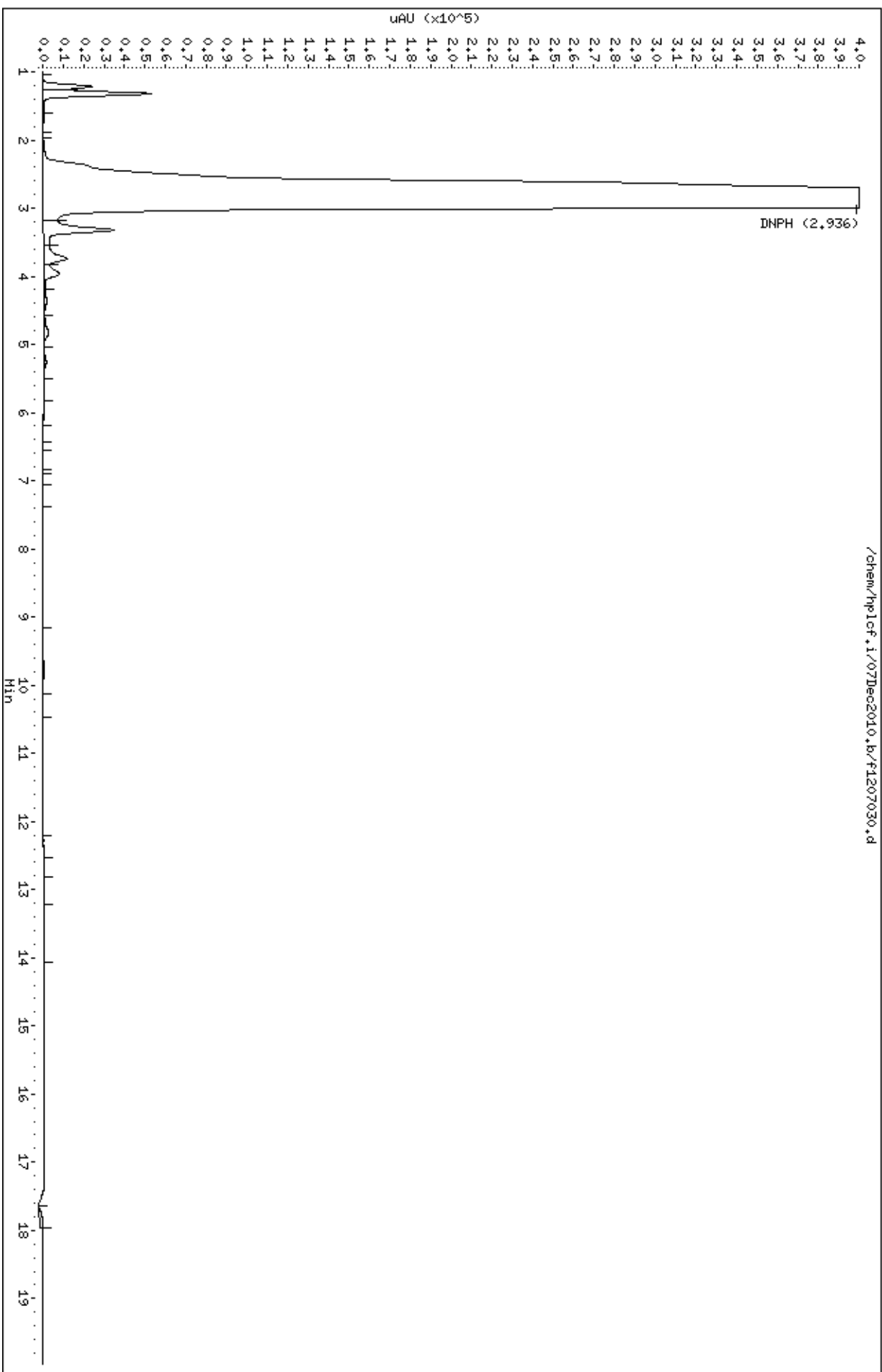
Sample Info: f1012041a-05a;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116763

Lab ID#: 1012041A-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	66	33

Client Sample ID: 116763

Lab ID#: 1012041A-06A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207047
Dil. Factor: 10.0

Date of Collection: 11/29/10
Date of Analysis: 12/8/10 01:53 AM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	66	33

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207047.d

Lab Smp Id: 1012041A-06AClient Smp ID: 10

Inj Date : 08-DEC-2010 01:53

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-06A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.937	2.941	-0.004	1824828		
2 FORMALDEHYDE	3.743	3.694	0.049	1802026	16.4607	65.8

Data File: /chem/hp1cf.i/07Dec2010.b/f1207047.d

Page 1

Date : 08-DEC-2010 01:53

Client ID: 10

Instrument: hp1cf.i

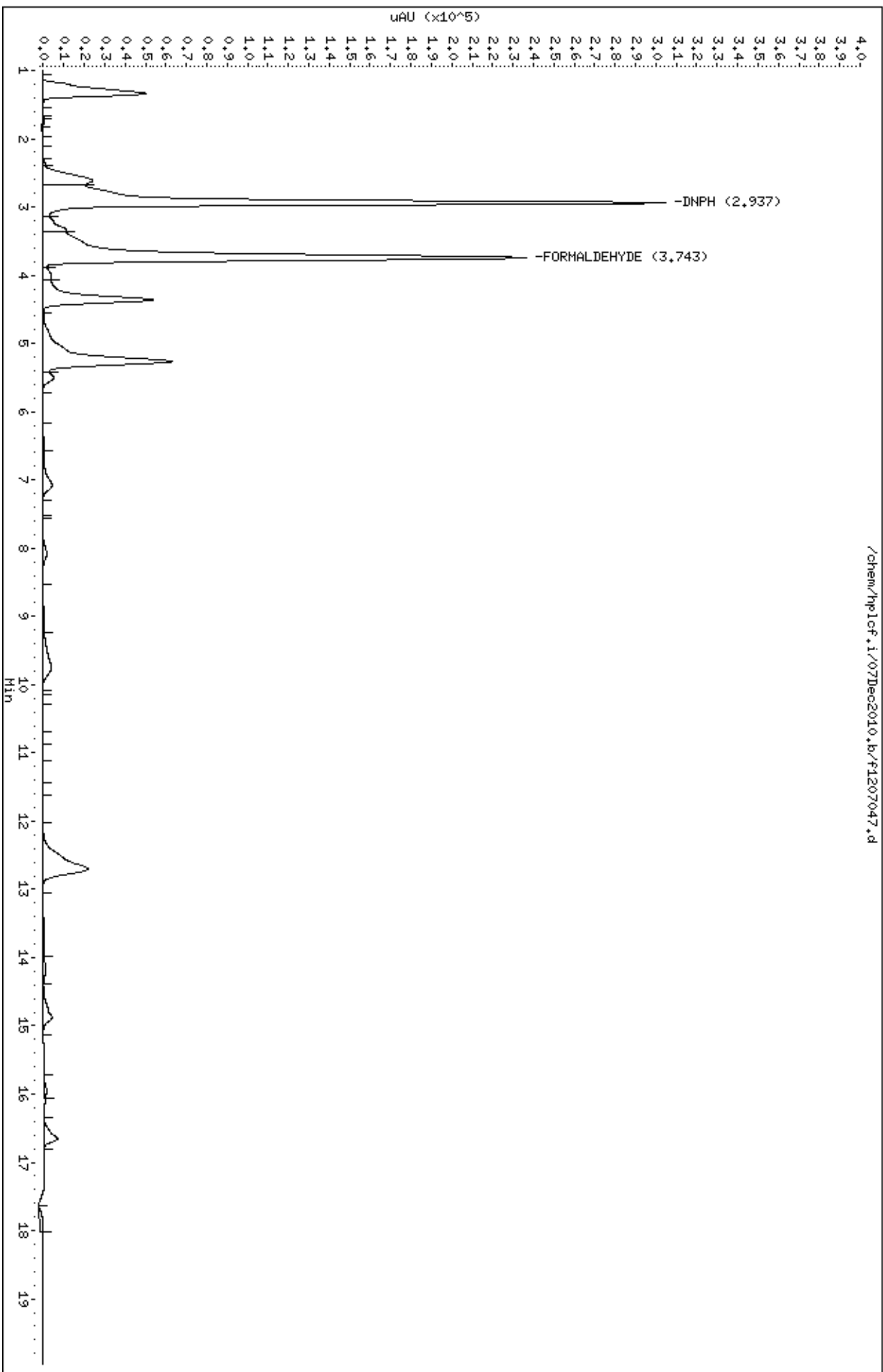
Sample Info: f1012044a-06a:10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116764

Lab ID#: 1012041A-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	66	33

Client Sample ID: 116764

Lab ID#: 1012041A-07A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207051
Dil. Factor: 10.0

Date of Collection: 11/29/10
Date of Analysis: 12/8/10 03:17 AM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	66	33

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207051.d

Lab Smp Id: 1012041A-07AClient Smp ID: 10

Inj Date : 08-DEC-2010 03:17

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-07A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.939	2.941	-0.002	1664146		
2 FORMALDEHYDE	3.746	3.694	0.052	1815312	16.5821	66.3

Data File: /chem/hp1cf.i/07Dec2010.b/f1207051.d

Page 1

Date : 08-DEC-2010 03:17

Client ID: 10

Instrument: hp1cf.i

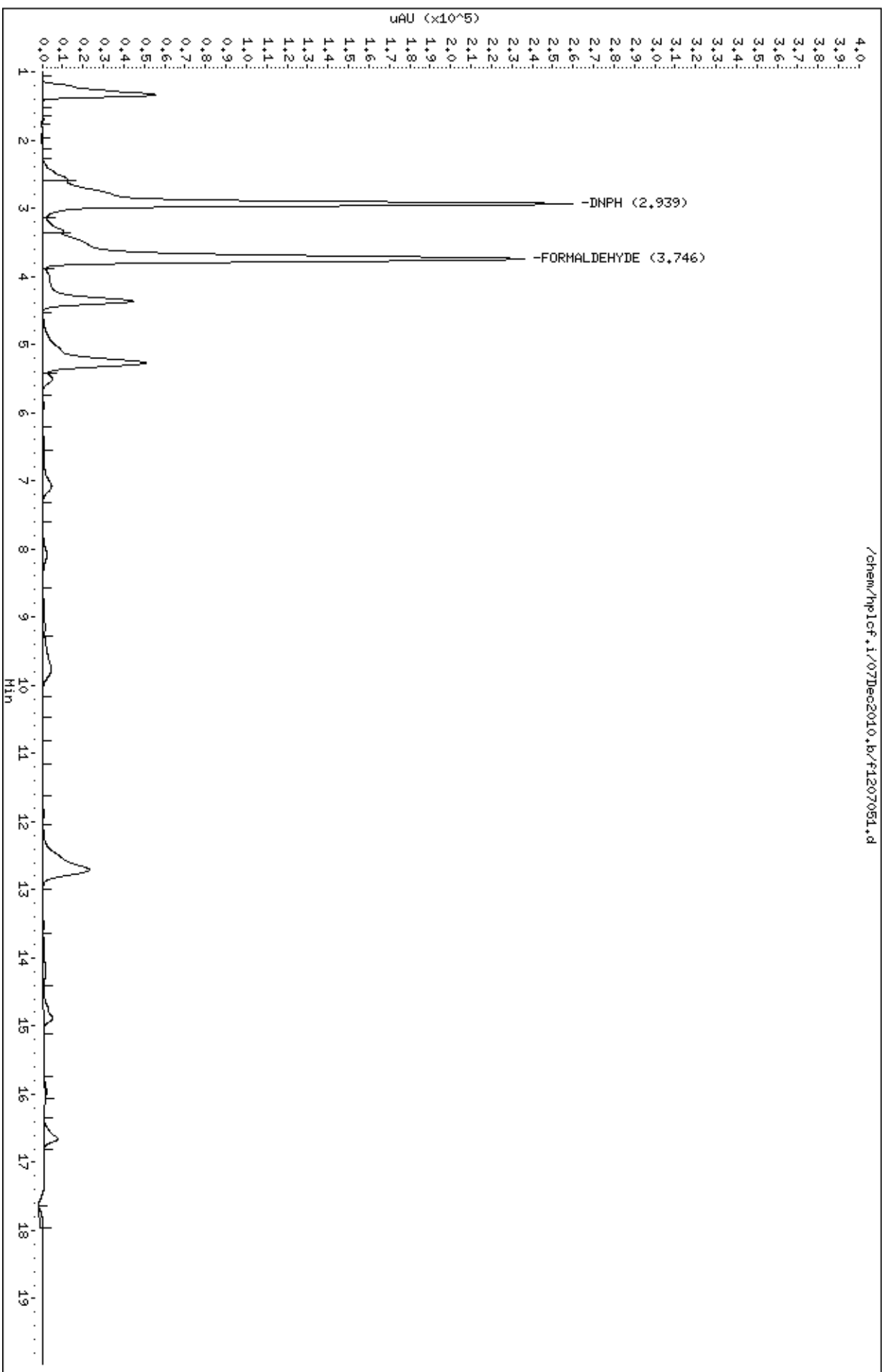
Sample Info: f1012041a-07a;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116765

Lab ID#: 1012041A-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	68	34

Client Sample ID: 116765

Lab ID#: 1012041A-08A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207052
Dil. Factor: 10.0

Date of Collection: 11/29/10
Date of Analysis: 12/8/10 03:38 AM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	68	34

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207052.d

Lab Smp Id: 1012041A-08AClient Smp ID: 10

Inj Date : 08-DEC-2010 03:38

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-08A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.930	2.941	-0.011	1617455		
2 FORMALDEHYDE	3.737	3.694	0.043	1860533	16.9952	68.0

Data File: /chem/hp1cf.i/07Dec2010.b/f1207052.d

Page 1

Date : 08-DEC-2010 03:38

Client ID: 10

Instrument: hp1cf.i

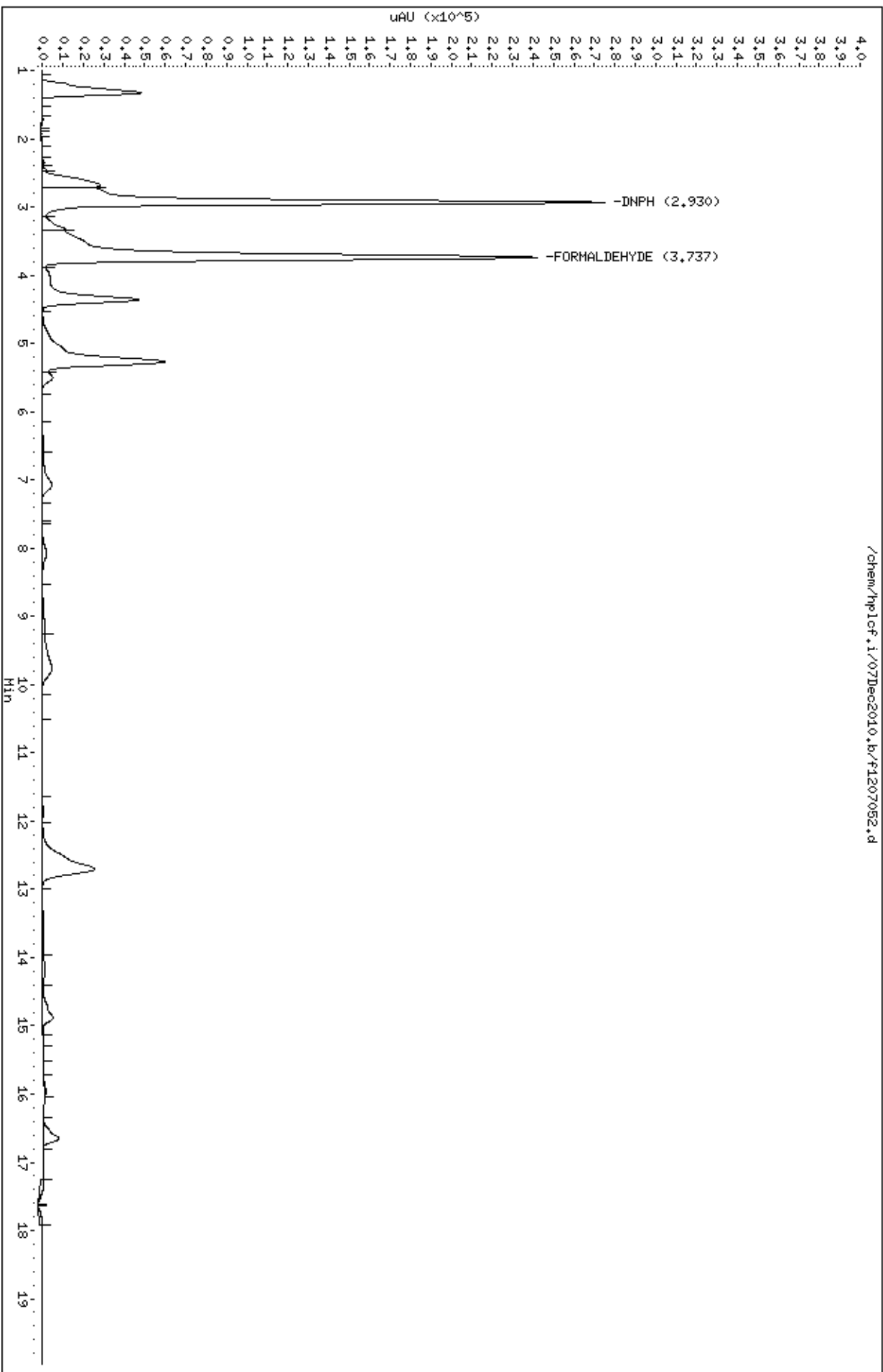
Sample Info: f1012041a-08a;10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116766

Lab ID#: 1012041A-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	2.0	0.98

Client Sample ID: 116766

Lab ID#: 1012041A-09A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207031
Dil. Factor: 1.00

Date of Collection: 11/29/10
Date of Analysis: 12/7/10 08:19 PM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	2.0	0.98

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207031.d

Lab Smp Id: 1012041A-09A

Inj Date : 07-DEC-2010 20:19

Operator : LZ

Smp Info : ;1012041A-09A;

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhang

Cal Date : 14-SEP-2010 18:30

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon

Target Version: 3.50

Processing Host: eeyore

Inst ID: hplcf.i

Quant Type: ESTD

Cal File: f0914014.d

Compound Sublist: form.sub

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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.943	2.941	0.002	15075725		
2 FORMALDEHYDE	3.743	3.694	0.049	532761	4.86654	1.95

Data File: /chem/hplcf.i/07Dec2010.b/f1207031.d

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Date : 07-DEC-2010 20:19

Client ID:

Instrument: hplcf.i

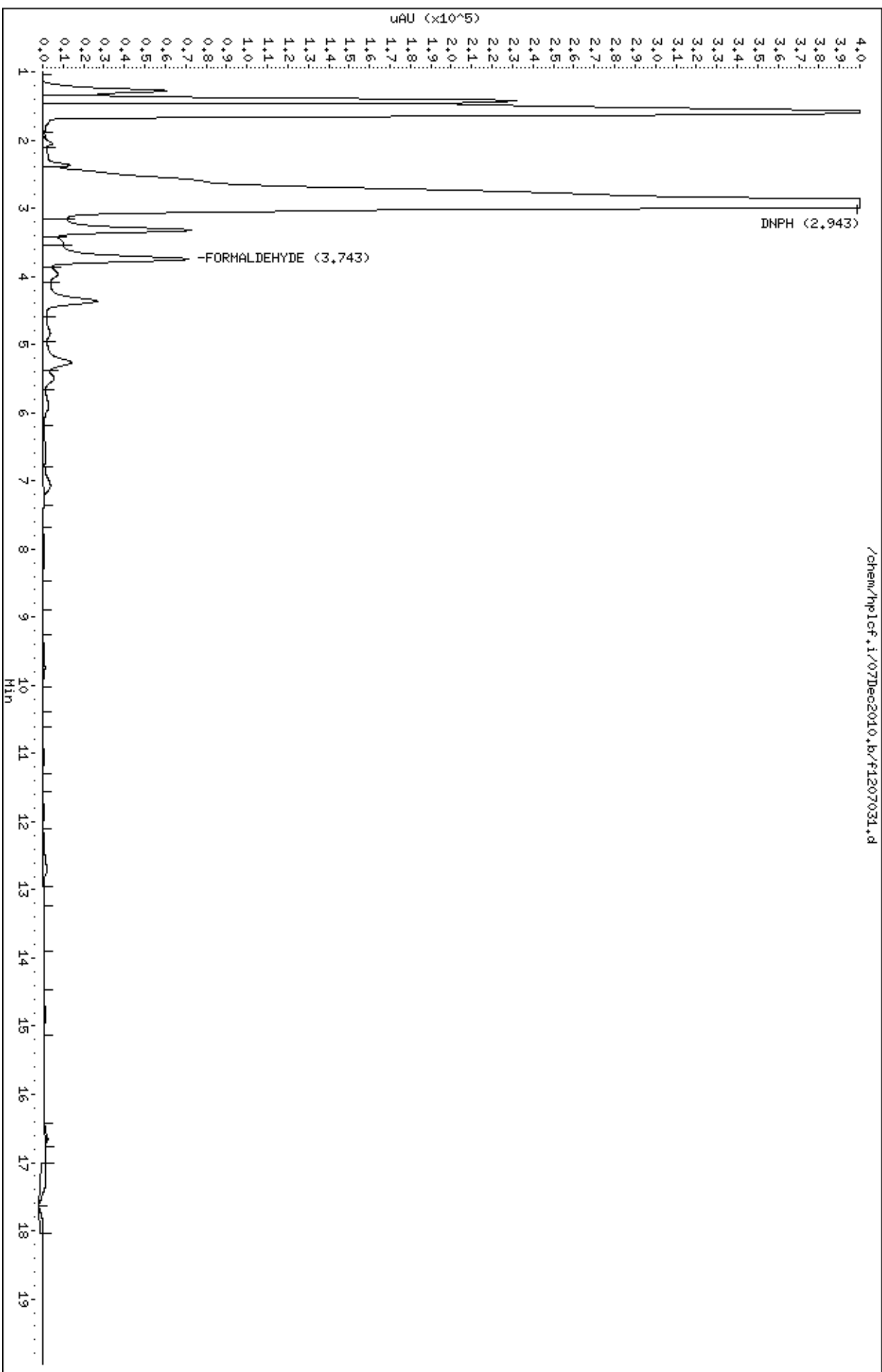
Sample Info: f1012041a-09a;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



**Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV**

Client Sample ID: 116767

Lab ID#: 1012041A-10A

No Detections Were Found.

Client Sample ID: 116767

Lab ID#: 1012041A-10A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	f1207032	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	12/7/10 08:40 PM
		Date of Extraction:	12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207032.d

Lab Smp Id: 1012041A-10A

Inj Date : 07-DEC-2010 20:40

Operator : LZ

Smp Info : ;1012041A-10A;

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhang

Cal Date : 14-SEP-2010 18:30

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon

Target Version: 3.50

Processing Host: eeyore

Inst ID: hplcf.i

Quant Type: ESTD

Cal File: f0914014.d

Compound Sublist: form.sub

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					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.939	2.941	-0.002	24165153		
2 FORMALDEHYDE				Compound Not Detected.		

Data File: /chem/hplcf.i/07Dec2010.b/f1207032.d

Page 1

Date : 07-DEC-2010 20:40

Client ID:

Instrument: hplcf.i

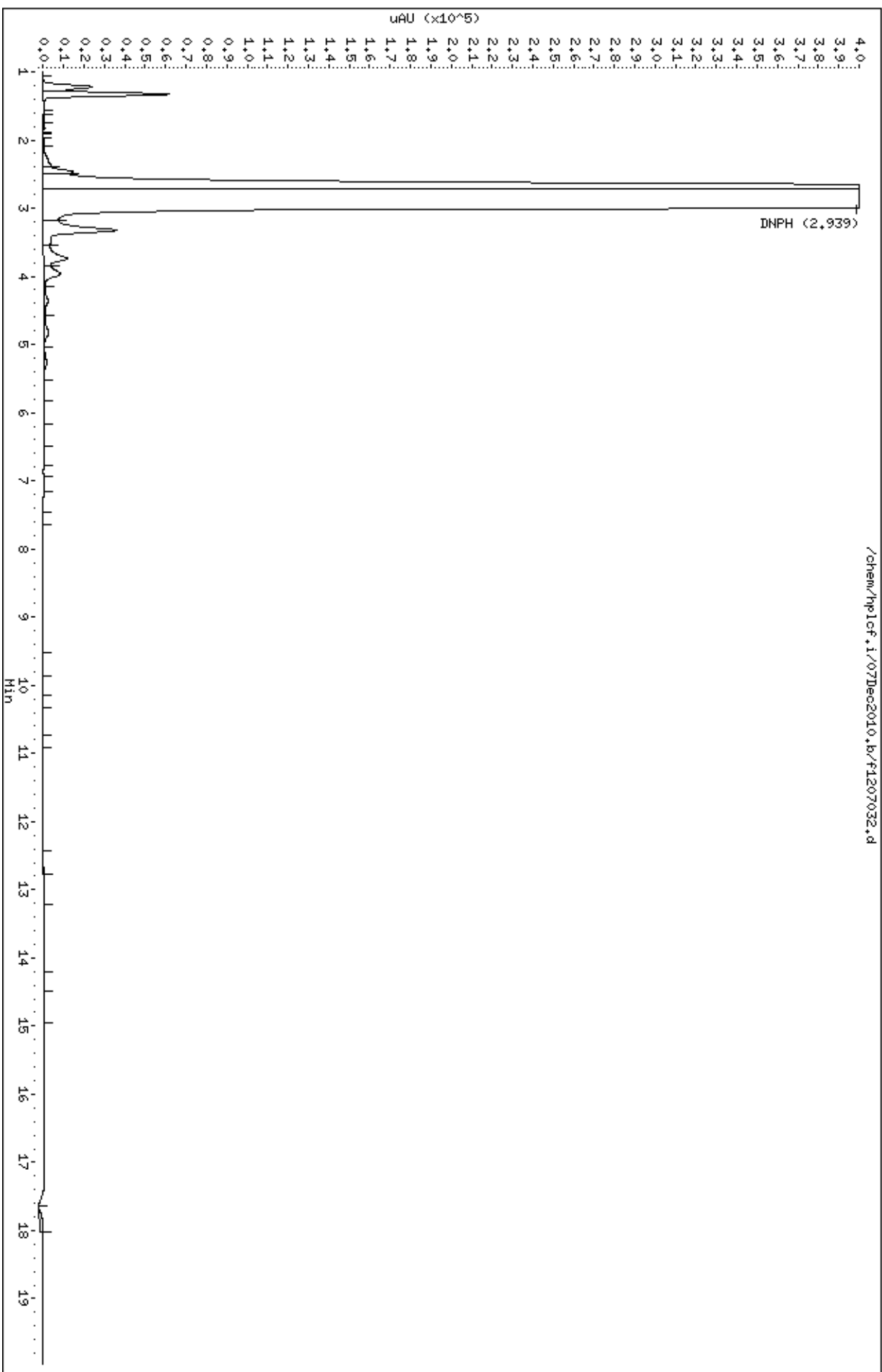
Sample Info: f10120410-10A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116779

Lab ID#: 1012041A-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	99	50

Client Sample ID: 116779

Lab ID#: 1012041A-11A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	f1207053	Date of Collection:	11/29/10
Dil. Factor:	10.0	Date of Analysis:	12/8/10 03:59 AM
		Date of Extraction:	12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	99	50

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207053.d

Lab Smp Id: 1012041A-11AClient Smp ID: 10

Inj Date : 08-DEC-2010 03:59

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-11A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.933	2.941	-0.008	2446241		
2 FORMALDEHYDE	3.739	3.694	0.045	2713656	24.7881	99.2

Data File: /chem/hp1cf.i/07Dec2010.b/f1207053.d

Page 1

Date : 08-DEC-2010 03:59

Client ID: 10

Instrument: hp1cf.i

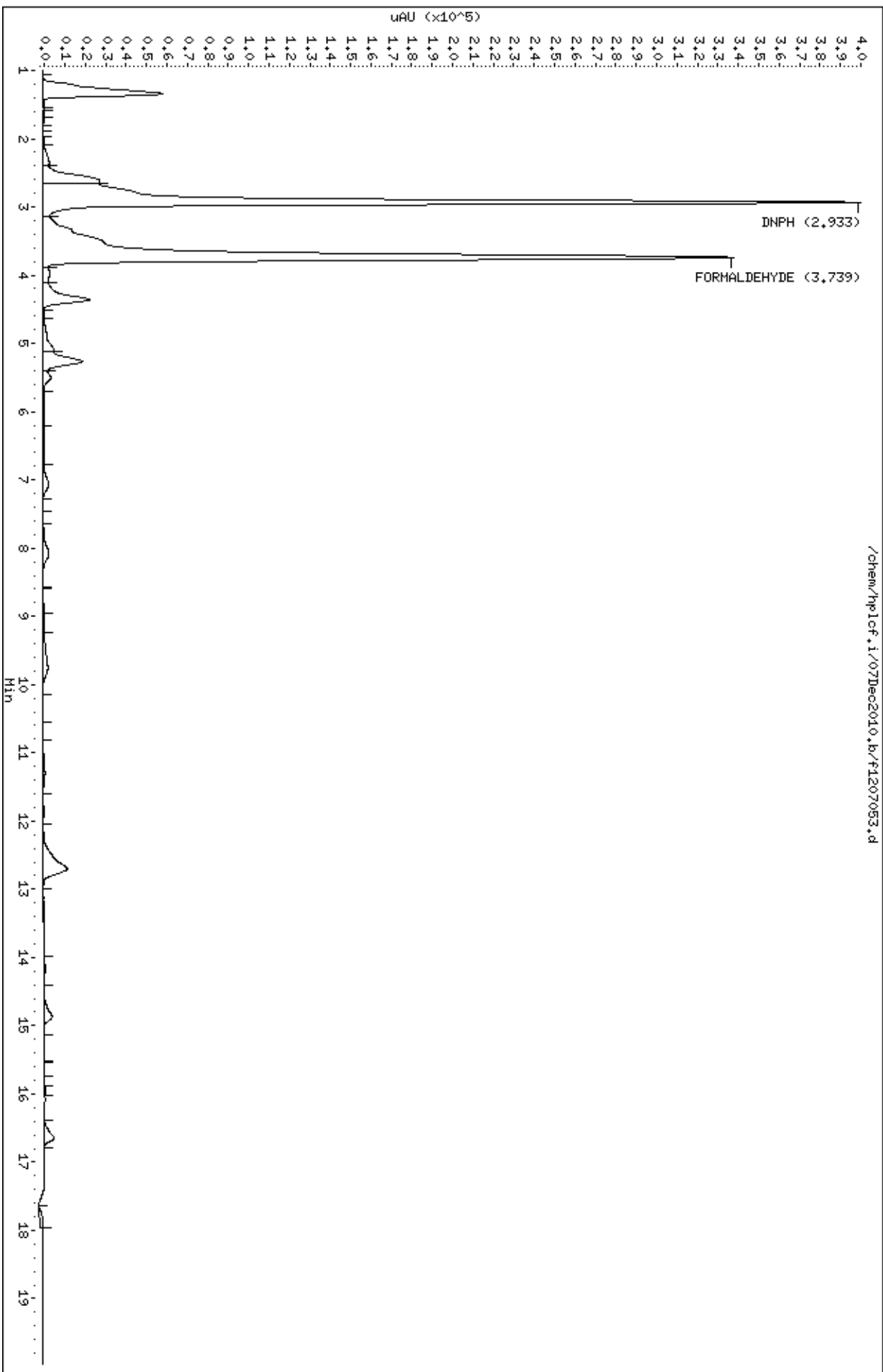
Sample Info: f10120410-11a:10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116780

Lab ID#: 1012041A-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	92	46

Client Sample ID: 116780

Lab ID#: 1012041A-12A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207054
Dil. Factor: 10.0

Date of Collection: 11/29/10
Date of Analysis: 12/8/10 04:20 AM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	92	46

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207054.d

Lab Smp Id: 1012041A-12AClient Smp ID: 10

Inj Date : 08-DEC-2010 04:20

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-12A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.934	2.941	-0.007	2152272		
2 FORMALDEHYDE	3.741	3.694	0.047	2504049	22.8734	91.5

Data File: /chem/hp1cf.i/07Dec2010.b/f1207054.d

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Date : 08-DEC-2010 04:20

Client ID: 10

Instrument: hp1cf.i

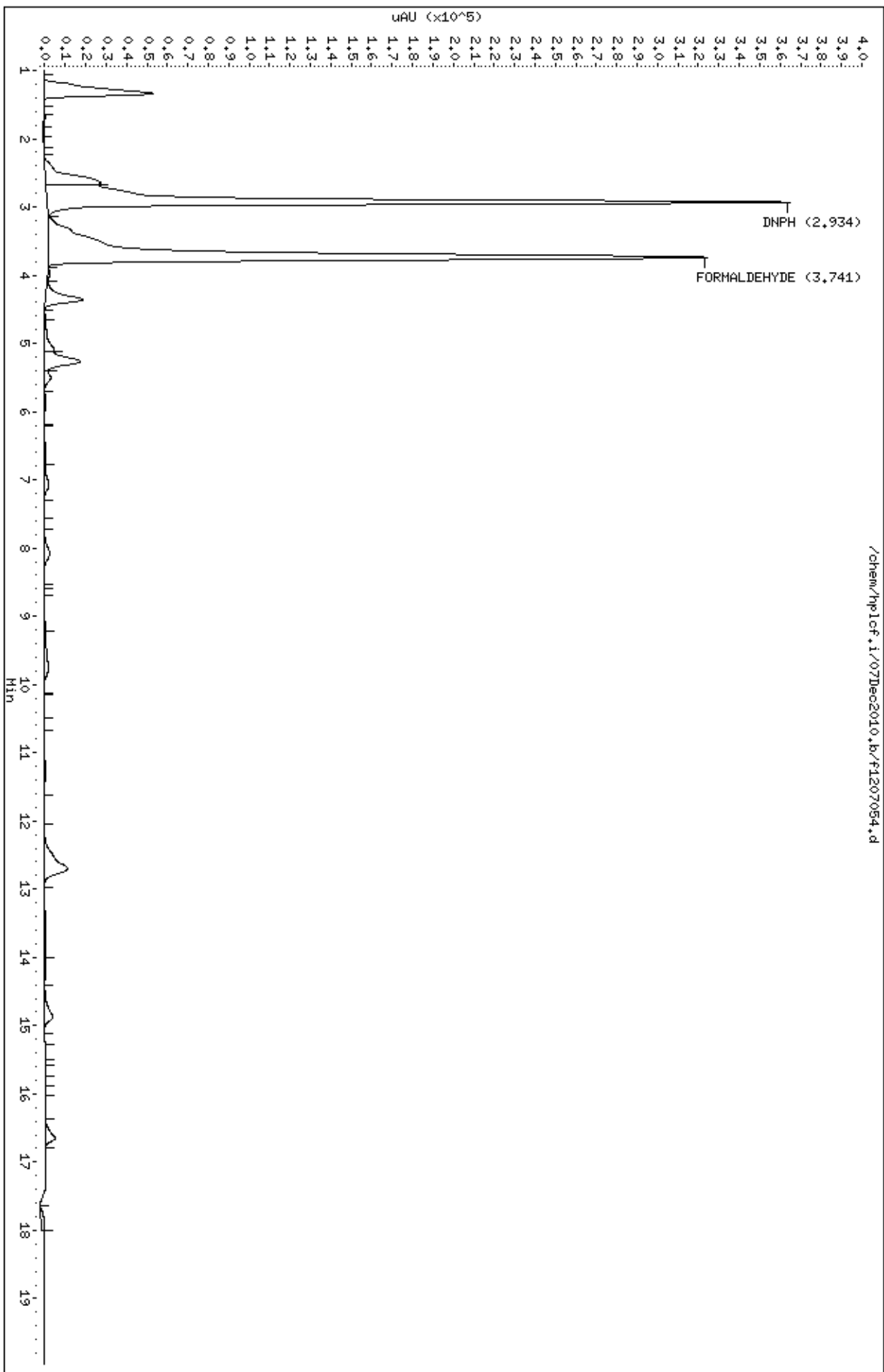
Sample Info: f10120410-120:10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116781

Lab ID#: 1012041A-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	100	51

Client Sample ID: 116781

Lab ID#: 1012041A-13A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	f1207055	Date of Collection:	11/29/10
Dil. Factor:	10.0	Date of Analysis:	12/8/10 04:41 AM
		Date of Extraction:	12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	100	51

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207055.d

Lab Smp Id: 1012041A-13AClient Smp ID: 10

Inj Date : 08-DEC-2010 04:41

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A-13A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.937	2.941	-0.004	1669516		
2 FORMALDEHYDE	3.744	3.694	0.050	2763116	25.2399	101

Data File: /chem/hp1cf.i/07Dec2010.b/f1207055.d

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Date : 08-DEC-2010 04:41

Client ID: 10

Instrument: hp1cf.i

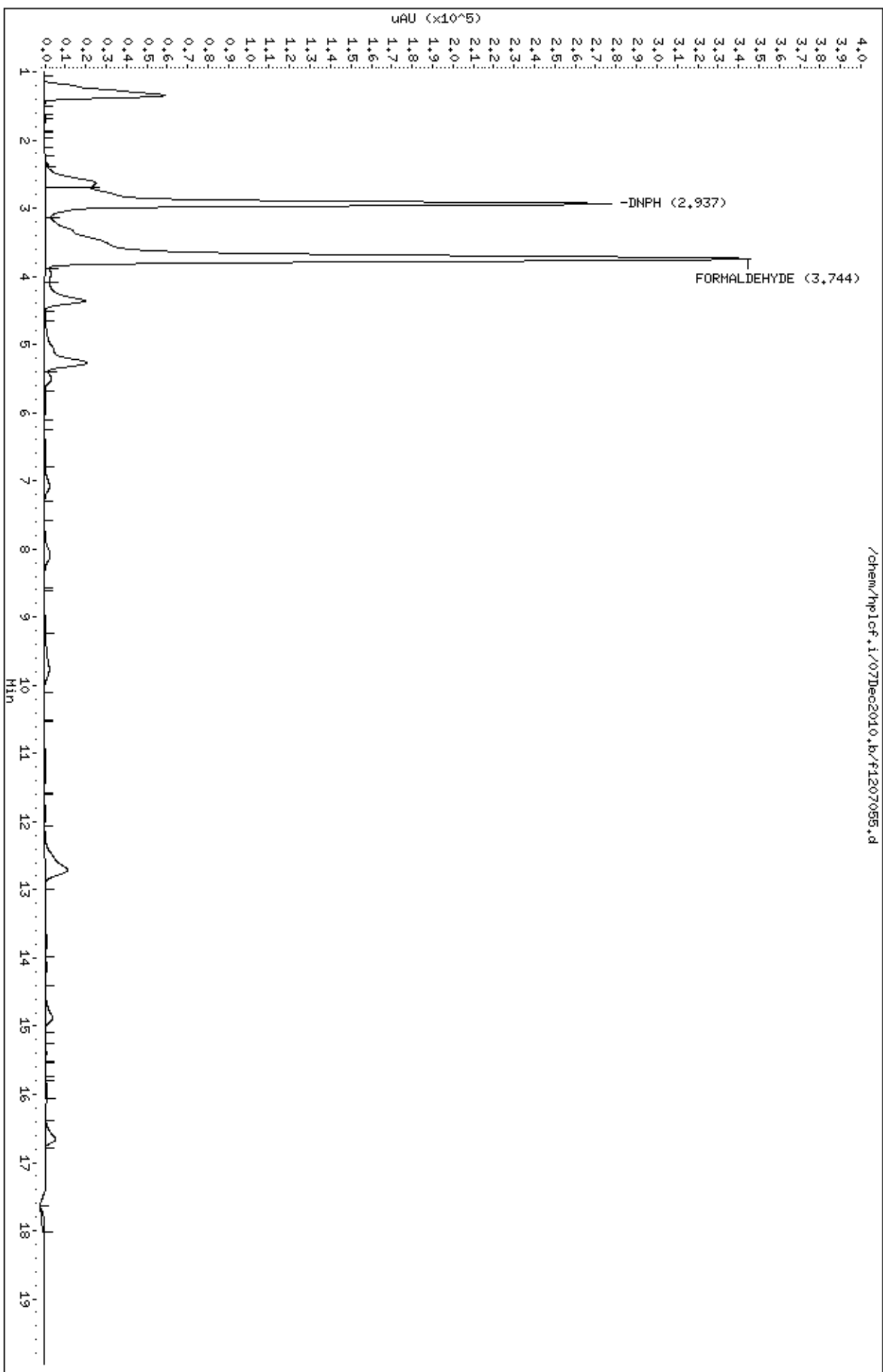
Sample Info: f10120410-13A:10

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 116782

Lab ID#: 1012041A-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.8	0.92

Client Sample ID: 116782

Lab ID#: 1012041A-14A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207033
Dil. Factor: 1.00

Date of Collection: 11/29/10
Date of Analysis: 12/7/10 09:01 PM
Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	1.8	0.92

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207033.d

Lab Smp Id: 1012041A-14A

Inj Date : 07-DEC-2010 21:01

Operator : LZ

Smp Info : ;1012041A-14A;

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhang

Cal Date : 14-SEP-2010 18:30

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon

Target Version: 3.50

Processing Host: eeyore

Inst ID: hplcf.i

Quant Type: ESTD

Cal File: f0914014.d

Compound Sublist: form.sub

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					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.943	2.941	0.002	16894258		
2 FORMALDEHYDE	3.743	3.694	0.049	499829	4.56572	1.83

Data File: /chem/hp1cf.i/07Dec2010.b/f1207033.d

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Date : 07-DEC-2010 21:01

Client ID:

Instrument: hp1cf.i

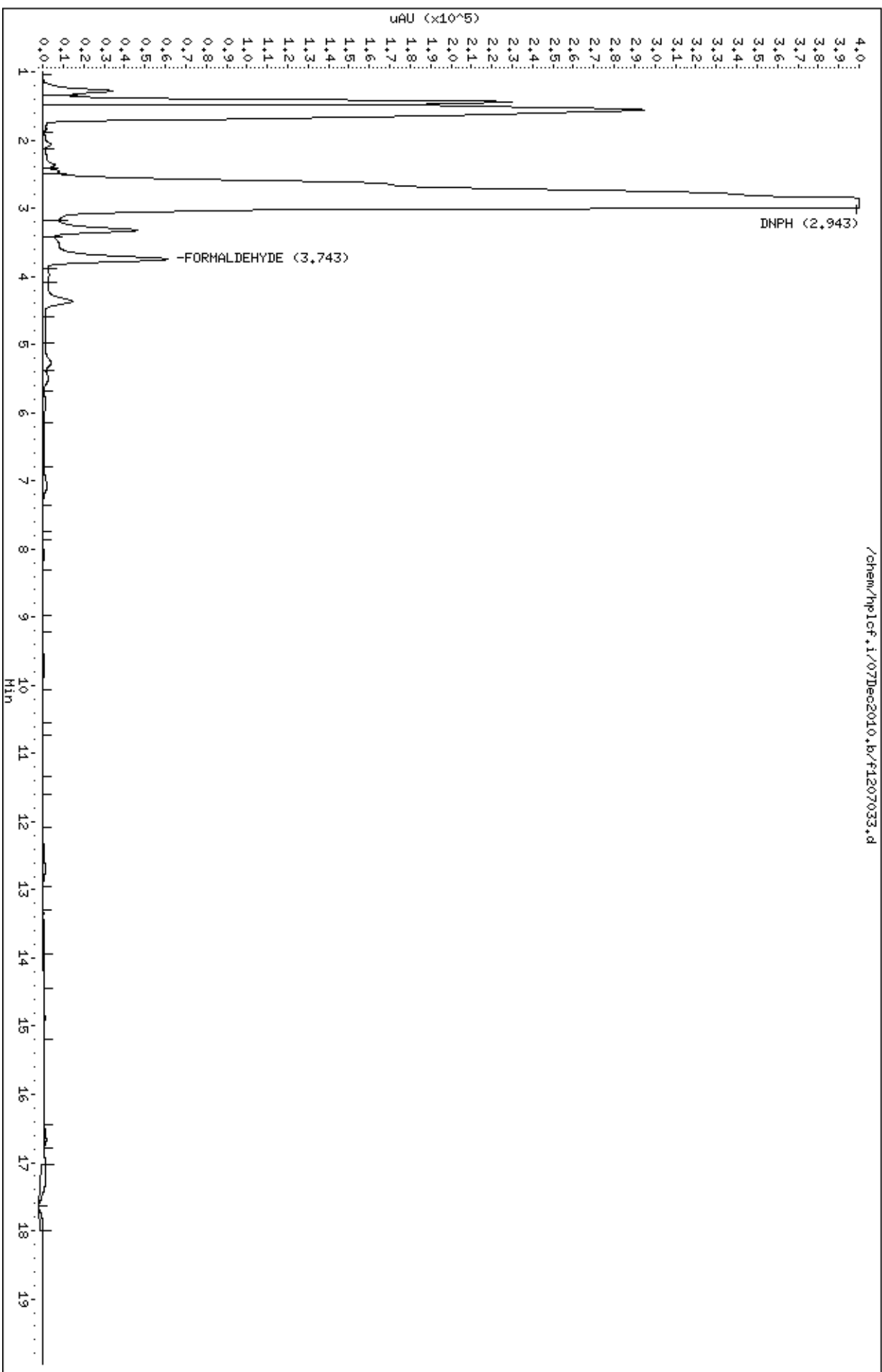
Sample Info: f10120410-140;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



**Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV**

Client Sample ID: 116783

Lab ID#: 1012041A-15A

No Detections Were Found.

Client Sample ID: 116783

Lab ID#: 1012041A-15A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207034

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/7/10 09:22 PM

Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207034.d

Lab Smp Id: 1012041A-15A

Inj Date : 07-DEC-2010 21:22

Operator : LZ

Smp Info : ;1012041A-15A;

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhang

Cal Date : 14-SEP-2010 18:30

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon

Target Version: 3.50

Processing Host: eeyore

Inst ID: hplcf.i

Quant Type: ESTD

Cal File: f0914014.d

Compound Sublist: form.sub

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						CONCENTRATIONS	
	RT	EXP RT	DLT RT	RT	RESPONSE	ON-COLUMN	FINAL
	==	=====	=====		=====	(ng)	(ug)
1 DNPH	2.966	2.941	0.025		21730820		
2 FORMALDEHYDE					Compound Not Detected.		

Data File: /chem/hplcf.i/07Dec2010.b/f1207034.d

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Date : 07-DEC-2010 21:22

Client ID:

Instrument: hplcf.i

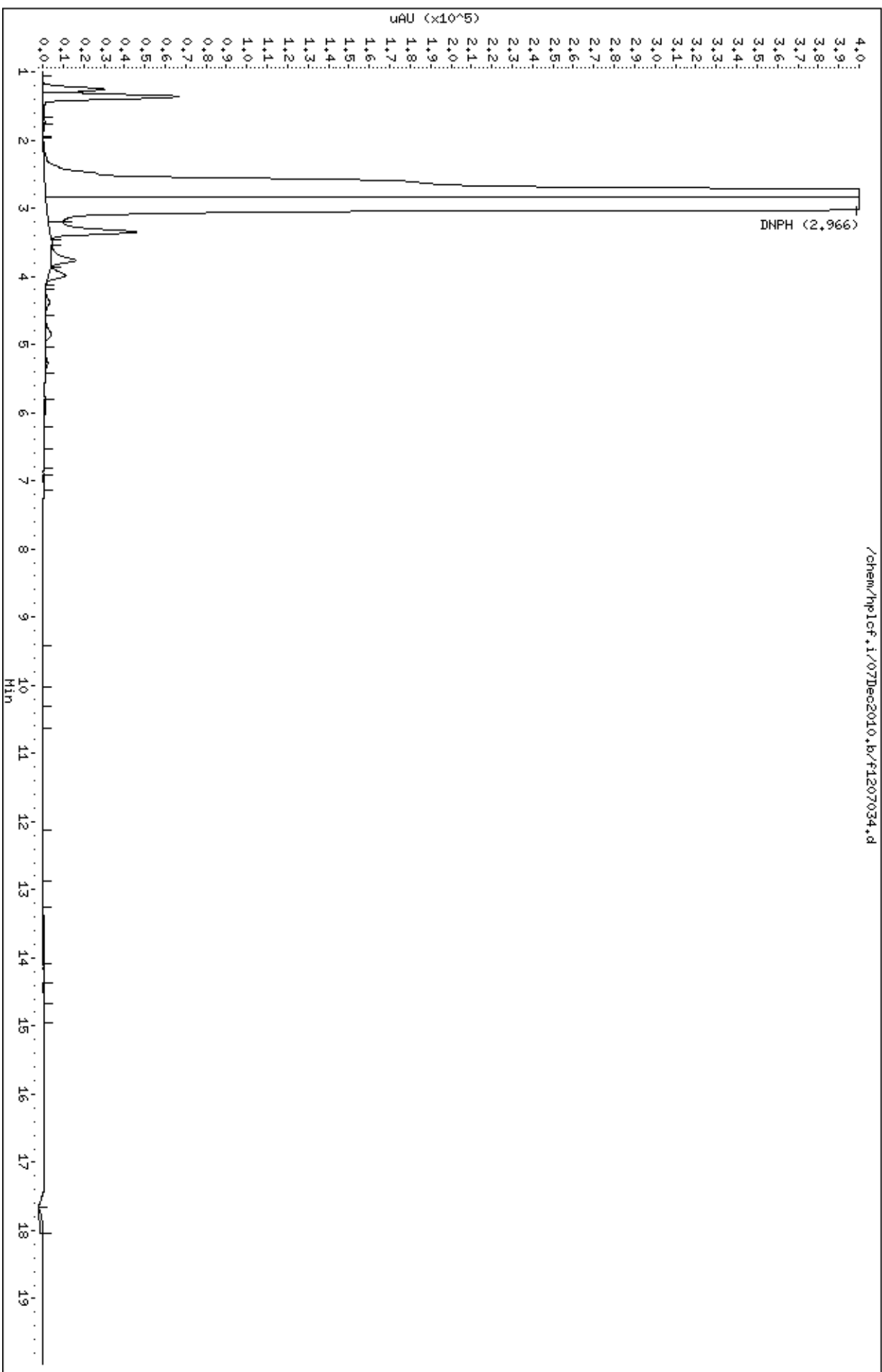
Sample Info: f10120410-15A;

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



QC Results and Raw Data

Client Sample ID: Lab Blank

Lab ID#: 1012041A-16A

RADIELLO ANALYSIS BY HPLC/UV

File Name:	f1207023	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/7/10 05:32 PM
		Date of Extraction: 12/6/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.48	Not Detected	Not Detected

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207023.d

Lab Smp Id: 1012041AClient Smp ID: LAB BLANK

Inj Date : 07-DEC-2010 17:32

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A;LAB BL

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.937	2.941	-0.004	33858373		
2 FORMALDEHYDE				Compound Not Detected.		

Data File: /chem/hplcf.i/07Dec2010.b/f1207023.d

Page 1

Date : 07-DEC-2010 17:32

Client ID: LAB BLANK

Instrument: hplcf.i

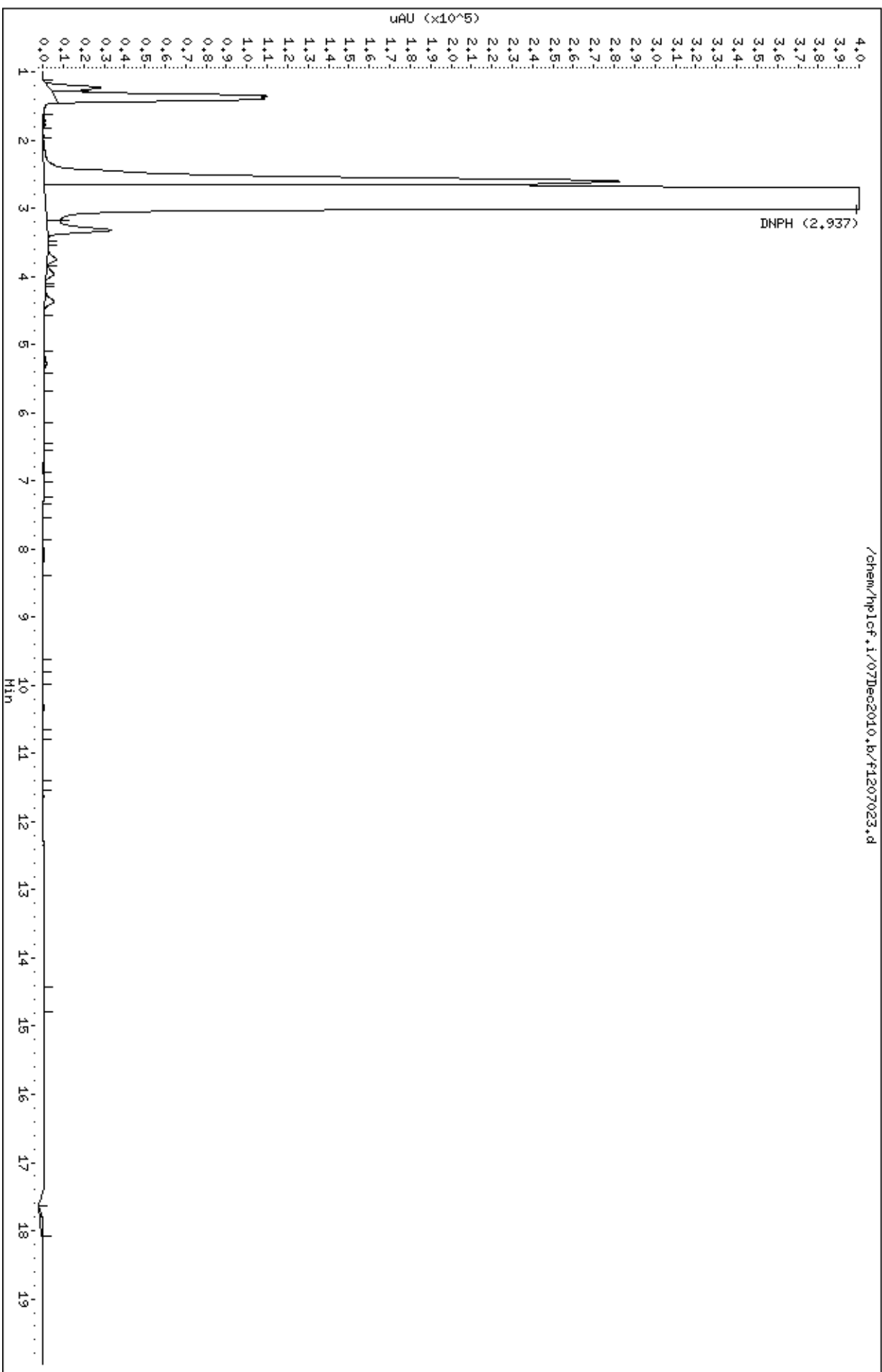
Sample Info: f1012041a;LAB BL

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: f1207026.d & f1207025.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 12/7/10 & 12/7/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
50-00-0	Formaldehyde	106		105		0.95	

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

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

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

Carry over 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

9/20/10

Compound	0.05000	0.10000	0.25000	0.50000	1.000	4.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
<i>ug/5ml</i>	10.000	20.000	50.000	75.000				
	Level 7	Level 8	Level 9	Level 10				
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

Carry over 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	0.10000	0.25000	0.50000	1.000	4.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	10.000	20.000	50.000	75.000				
	Level 7	Level 8	Level 9	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

U s e	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	0914008	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				2159		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	↓				0147		↓

Calculation Check:

File ID: 0914024.2

Compound: Cotanol

Initials: CRL

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

4.09

Reported Result:

4.00

Cary Lee
Signed

9/15/10
Date

Method: All DPH methodsPressure: 87 bar

U s e	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	914036	1838-34-75.0	1.00	CR	9/15/10	0210	CR	level 10
✓	37	↓	↓	↓	↓	0231	↓	↓
✓	38	↓	↓	↓	↓	0252	↓	↓
✓	39	ACU WASH	↓	↓	↓	0312	↓	↓
✓	40	1838-30-4.0 LCS	↓	↓	↓	0333	↓	LCS

Calculation Check:

File ID: _____ Compound: _____

Initials: _____

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

Reported Result: _____

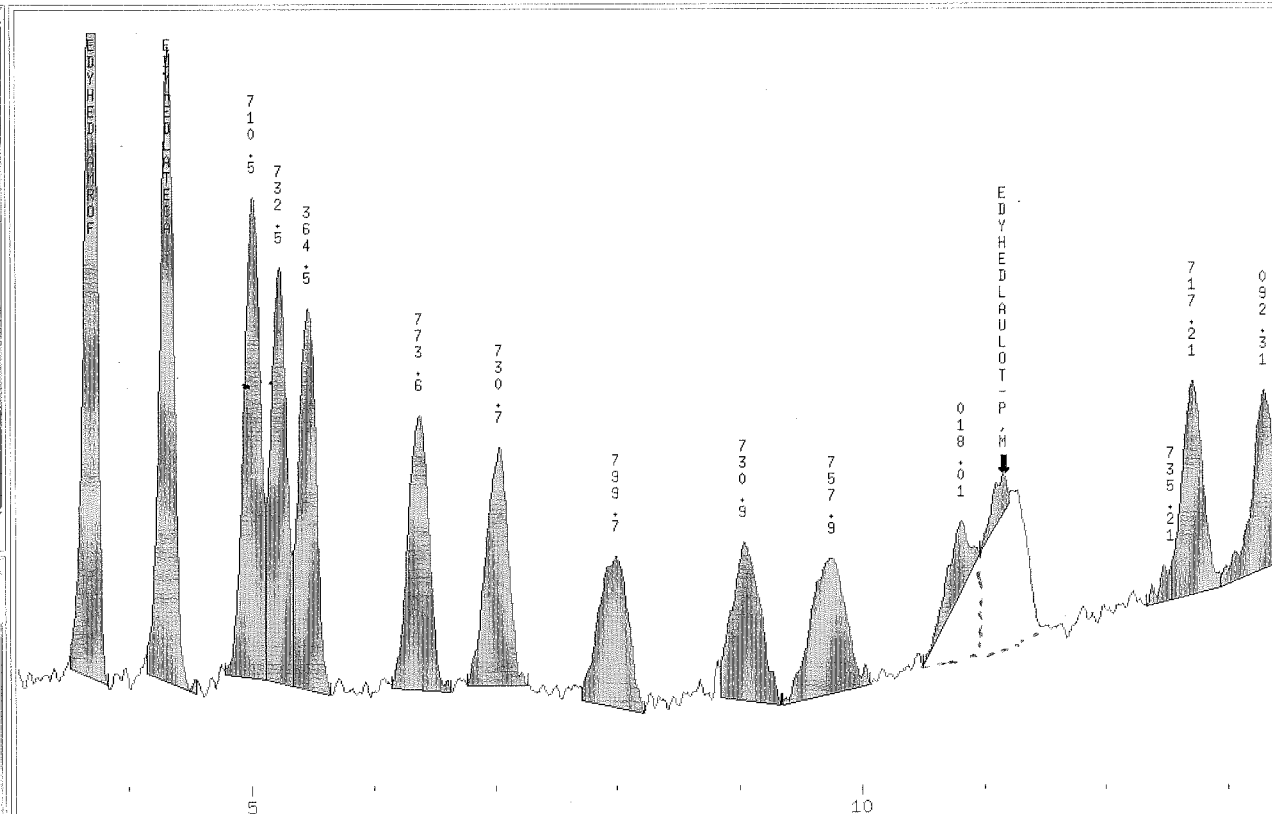
Signed9/15/10
Date

Revised 07/08

File Record 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-TOLUALDEHYDE



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

09/15/10

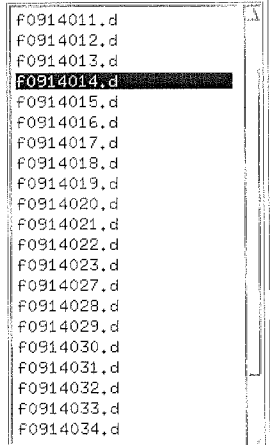
1 DNPH
+ 2 FORMALDEHYDE
+ 3 ACETALDEHYDE
* 15 M,P-TOLUALDEHY

Compound: M,P-TOLUAL

Update Method Expected
Time New Time

11.157

Done Apply Unsa



1	11.157	5452	0.178	0.178	100	M
- Mark M.P-TOLUALDEHYDE Undetected.						

- Mark M,P-TOLUALDEHYDE Undetected.

09/15/10

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: 1838-36-4.0Client Smp ID: LCS

Inj Date : 15-SEP-2010 03:33

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG)	FINAL (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

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/hp1cf.i/14Sep2010.b/f0914040.d

Date : 15-SEP-2010 03:33

Client ID: LCS

Sample Info: f1838-36-4.0;LCS

Purge Volume: 5.0

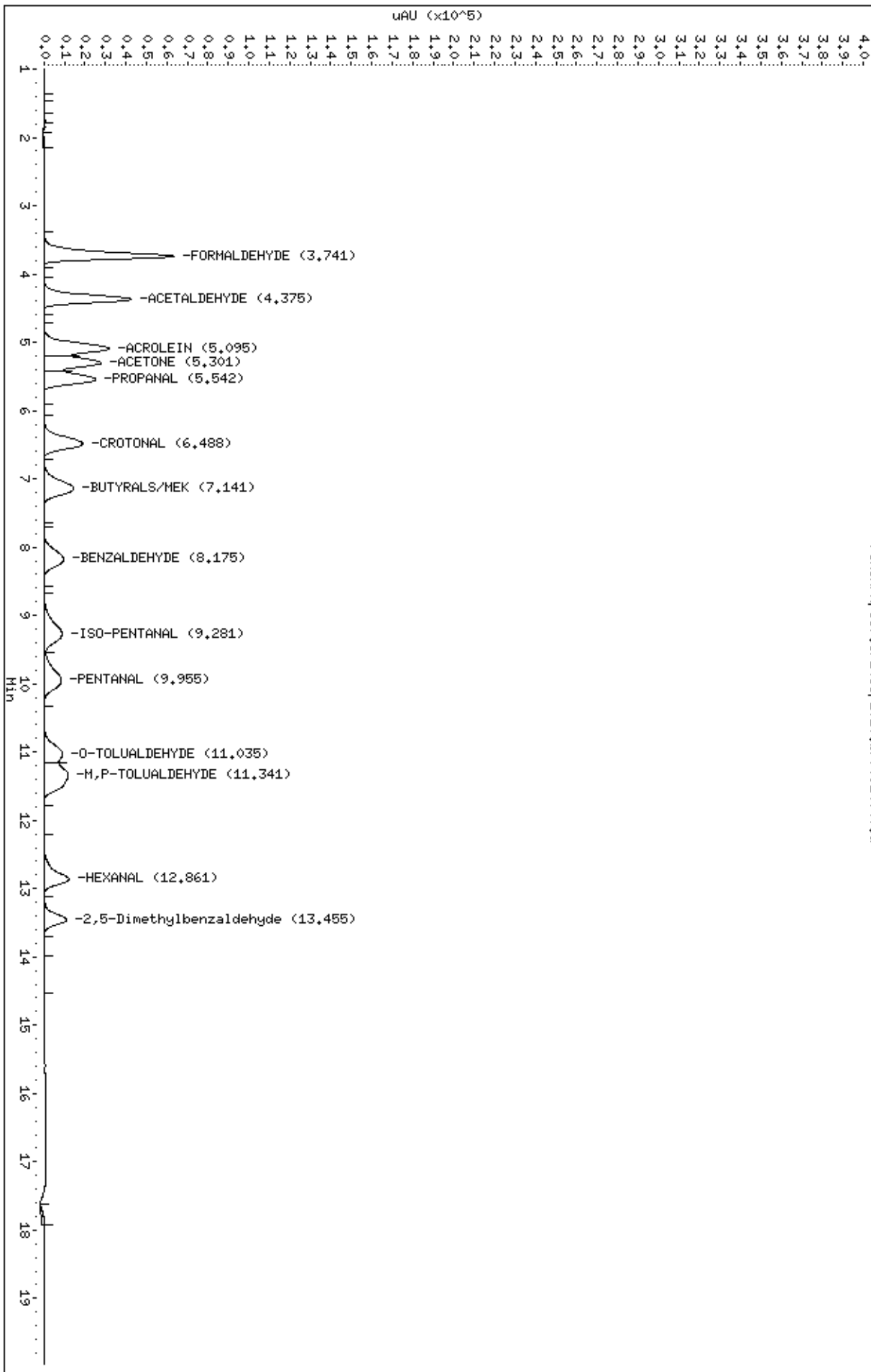
Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00

/chem/hp1cf.i/14Sep2010.b/f0914040.d



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: 1838-34-0.05Client Smp ID: 1

Inj Date : 14-SEP-2010 17:27

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 17:27Cal File: f0914011.d

Als bottle: 1Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

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

Page 1

Date : 14-SEP-2010 17:27

Client ID: 1

Instrument: hplcf.i

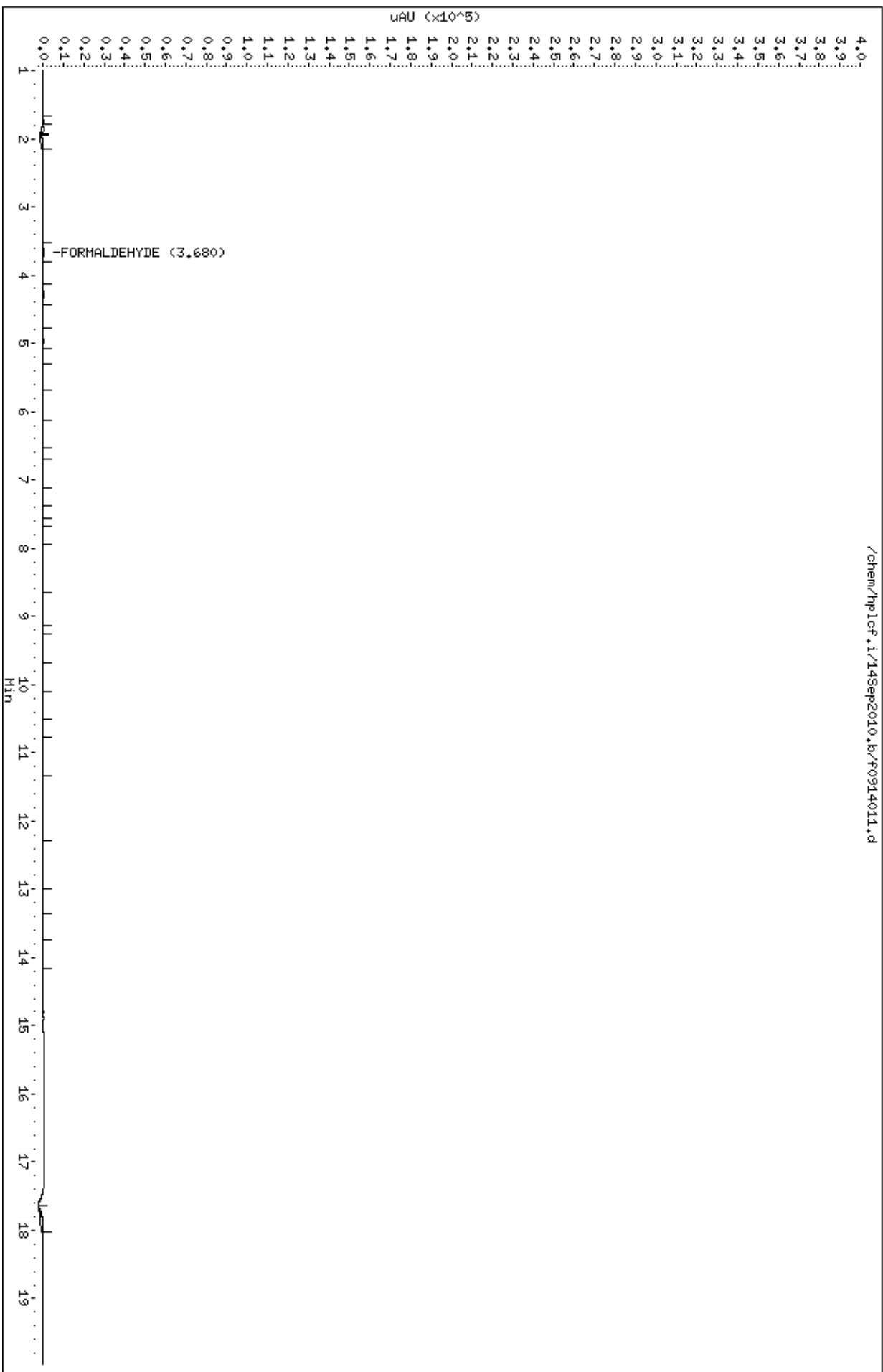
Sample Info: f1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Aldehydes/Ketones To-11, TO-5, CARB430, 0011, Radiello 165

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
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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100	100

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

Data File: /chem/hp1cf.i/14Sep2010.b/f0914010.d

Page 1

Date : 14-SEP-2010 17:07

Client ID: 1

Instrument: hp1cf.i

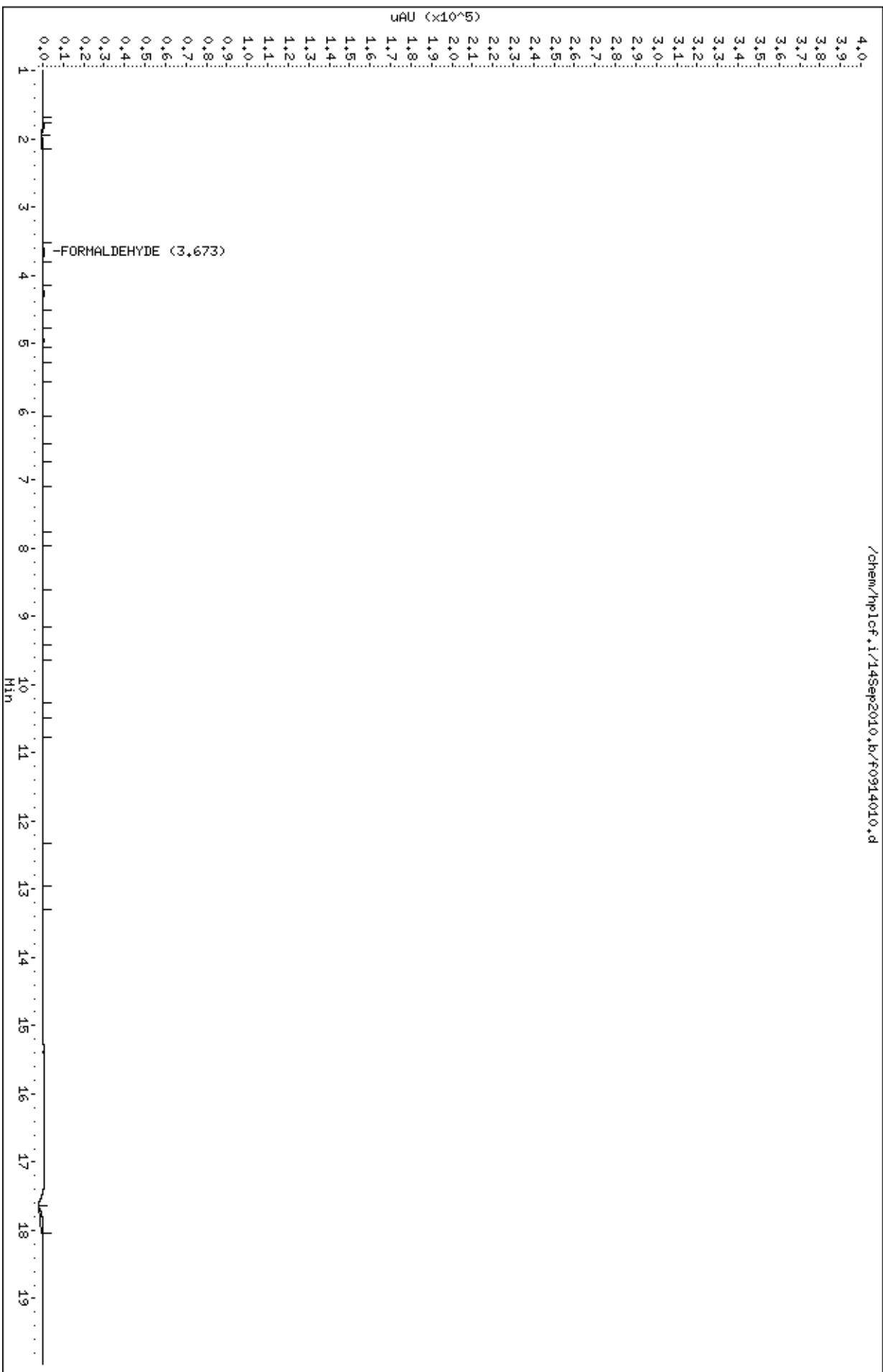
Sample Info: #1838-34-0.05;1

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

Compounds	AMOUNTS					
	CAL-AMT			ON-COL		
	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/hp1cf.i/14Sep2010.b/f0914009.d

Page 1

Date : 14-SEP-2010 16:46

Client ID: 1

Instrument: hp1cf.i

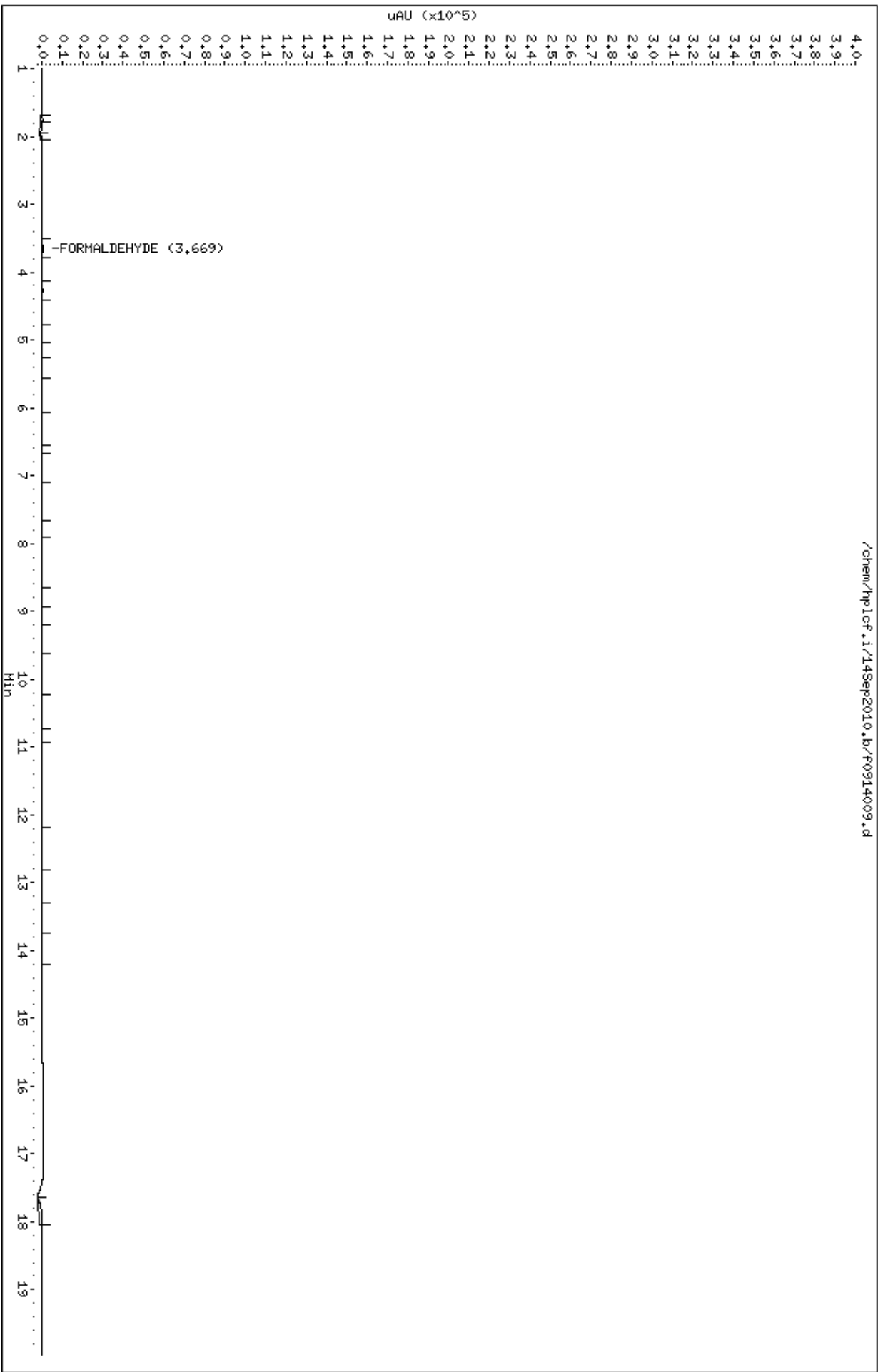
Sample Info: #1838-34-0.05;1

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Data File: /chem/hp1cf.i/14Sep2010.b/f0914014.d

Date : 14-SEP-2010 18:30

Client ID: 2

Sample Info: f1838-34-0.1;2

Purge Volume: 5.0

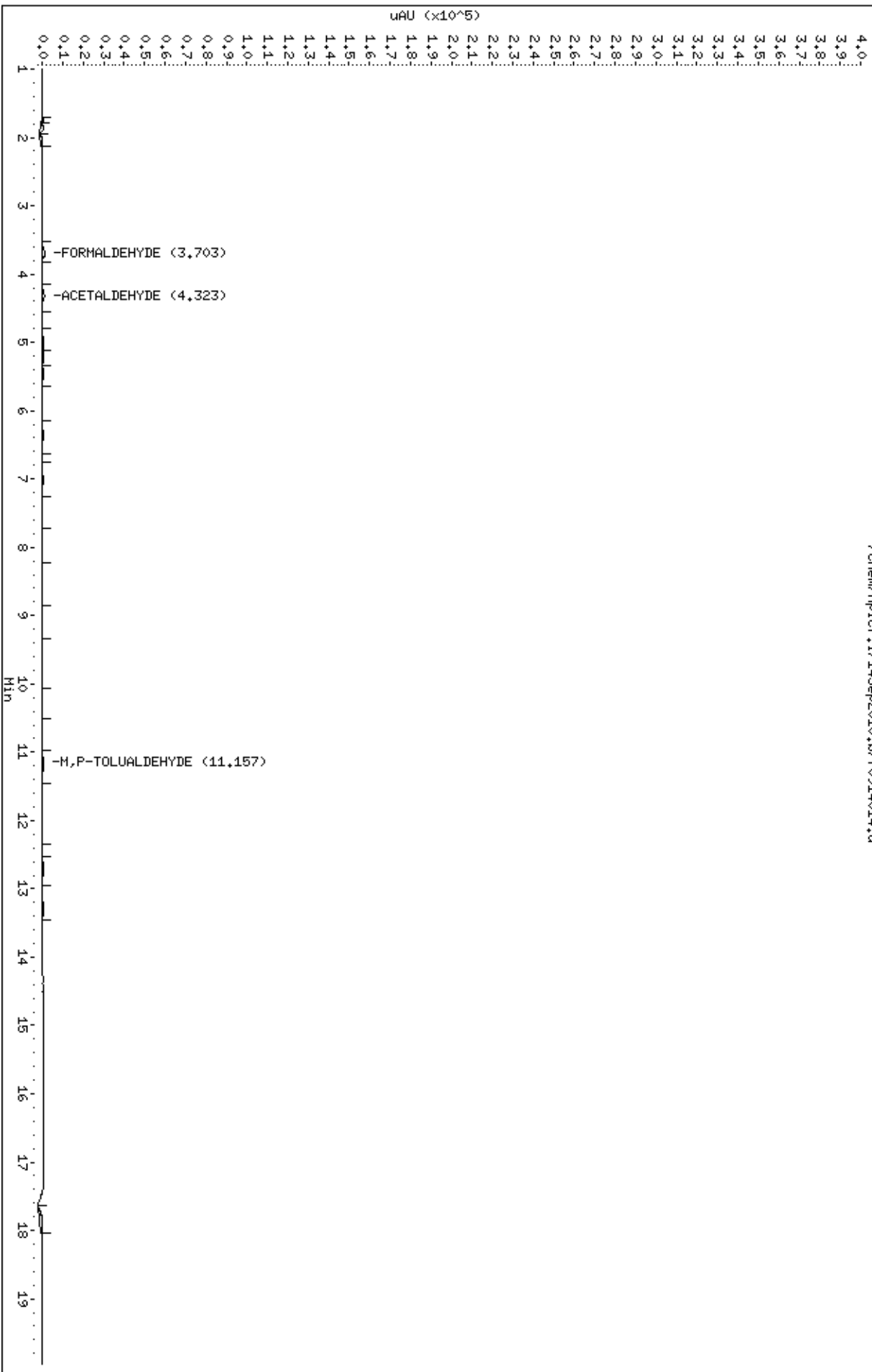
Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00

/chem/hp1cf.i/14Sep2010.b/f0914014.d



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: 1838-34-0.1Client Smp ID: 2

Inj Date : 14-SEP-2010 18:09

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 18:09Cal File: f0914013.d

Als bottle: 1Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: F+A+M,P.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

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

Data File: /chem/hp1cf.i/14Sep2010.b/f0914013.d

Page 1

Date : 14-SEP-2010 18:09

Client ID: 2

Instrument: hp1cf.i

Sample Info: f1838-34-0.1;2

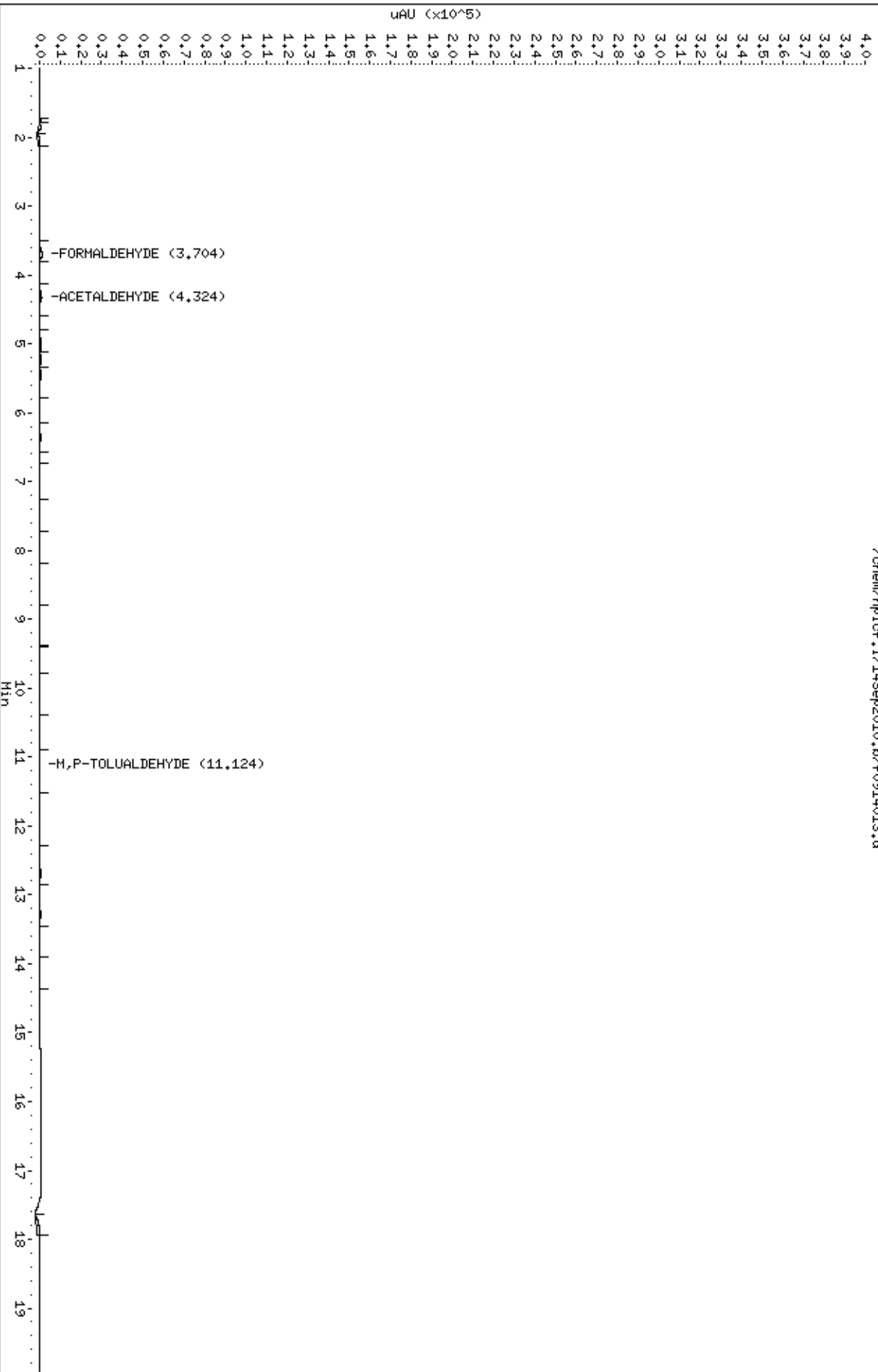
Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00

/chem/hp1cf.i/14Sep2010.b/f0914013.d



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					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG)	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/hp1cf.i/14Sep2010.b/f0914012.d

Page 1

Date : 14-SEP-2010 17:48

Client ID: 2

Instrument: hp1cf.i

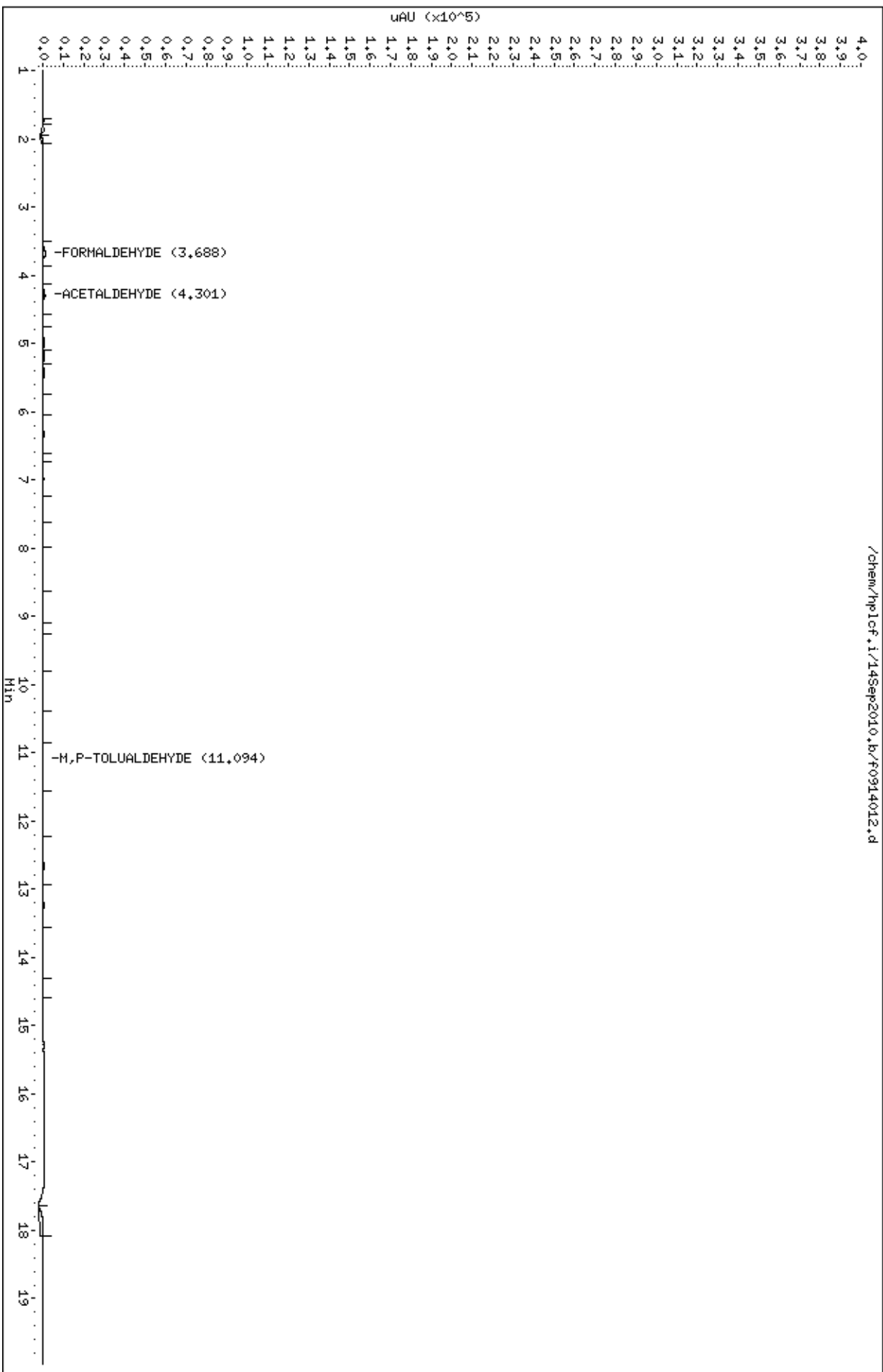
Sample Info: f1838-34-0.1;2

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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (UG)	ON - COL (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/hp1cf.i/14Sep2010.b/f0914017.d

Date : 14-SEP-2010 19:33

Client ID: 3

Sample Info: f1838-34-0.25;3

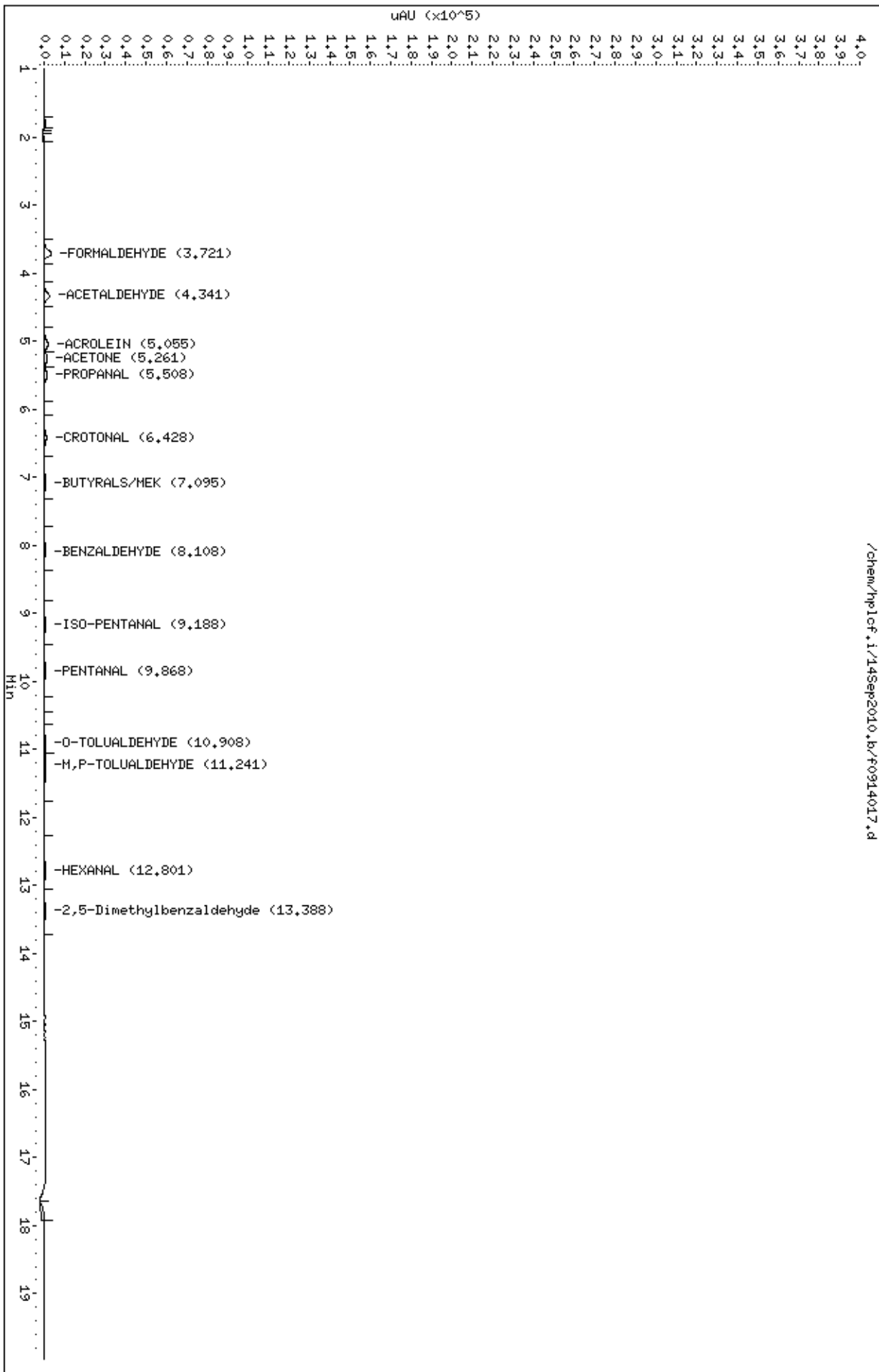
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (UG)	ON - COL (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/hp1cf.i/14Sep2010.b/f0914016.d

Date : 14-SEP-2010 19:12

Client ID: 3

Sample Info: f1838-34-0.25:3

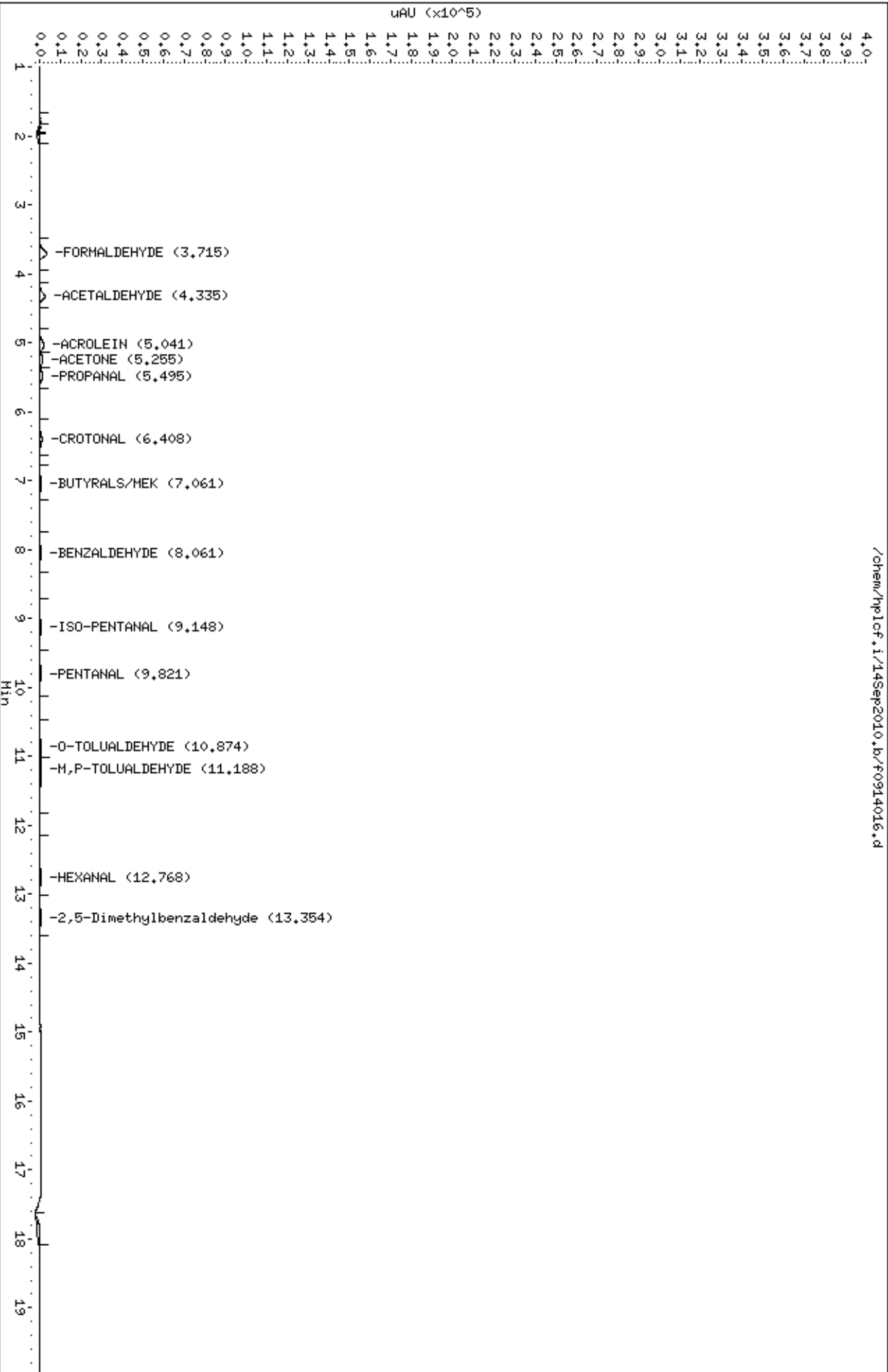
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914015.d

Lab Smp Id: 1838-34-0.25Client Smp ID: 3

Inj Date : 14-SEP-2010 18:51

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 18:51Cal File: f0914015.d

Als bottle: 1Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (UG)	ON - COL (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 ACRROLEIN	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/hp1cf.i/14Sep2010.b/f0914015.d

Date : 14-SEP-2010 18:51

Client ID: 3

Sample Info: f1838-34-0.25;3

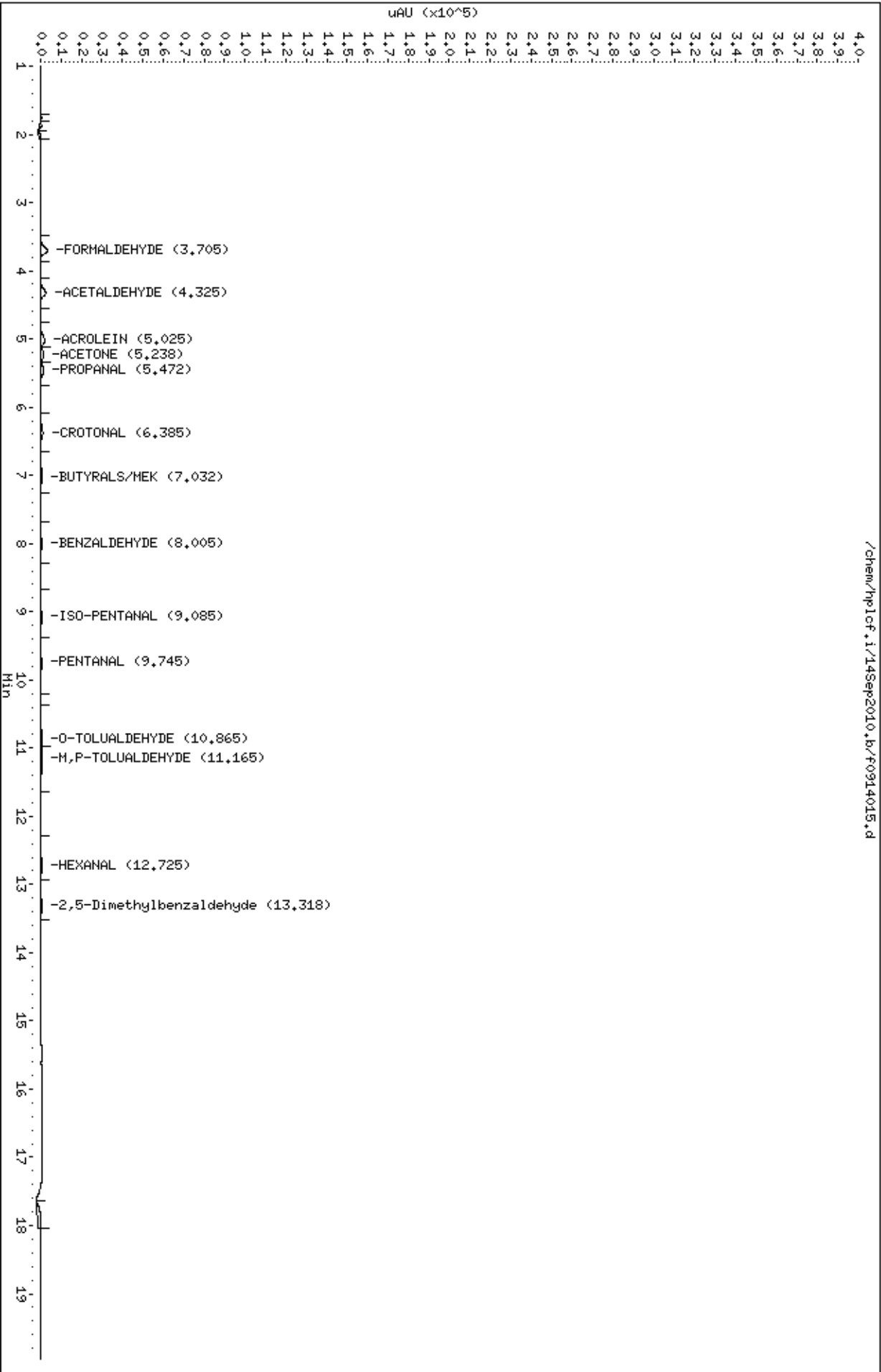
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914020.d

Lab Smp Id: 1838-34-0.5Client Smp ID: 4

Inj Date : 14-SEP-2010 20:35

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 20:35Cal File: f0914020.d

Als bottle: 1Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (UG)	ON - COL (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/hp1cf.i/14Sep2010.b/f0914020.d

Date : 14-SEP-2010 20:35

Client ID: 4

Sample Info: f1838-34-0.5;4

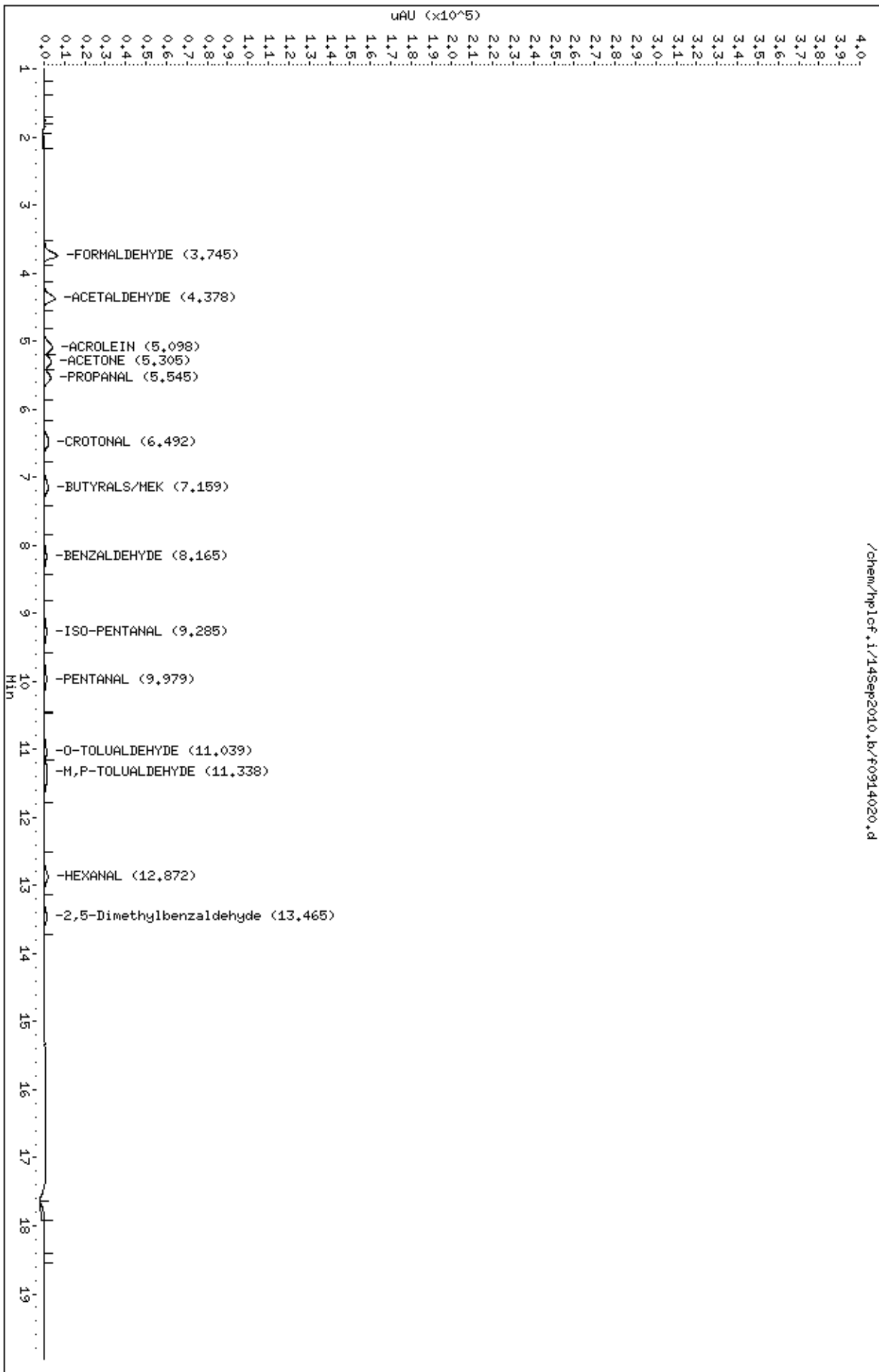
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (UG)	ON - COL (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/hp1cf.i/14Sep2010.b/f0914019.d

Date : 14-SEP-2010 20:15

Client ID: 4

Sample Info: f1838-34-0.5;4

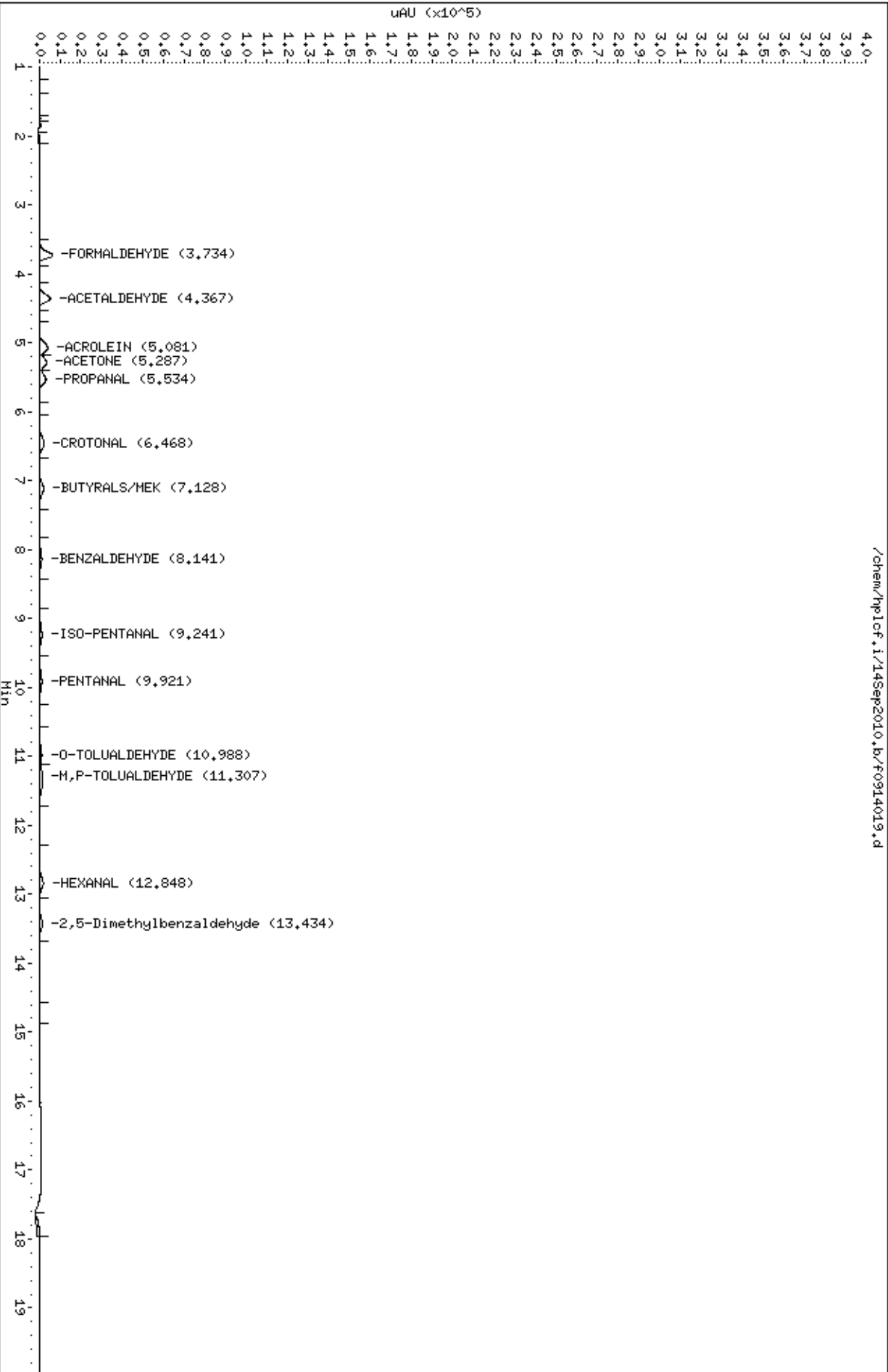
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (UG)	ON - COL (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/hp1cf.i/14Sep2010.b/f0914018.d

Date : 14-SEP-2010 19:54

Client ID: 4

Sample Info: f1838-34-0.5;4

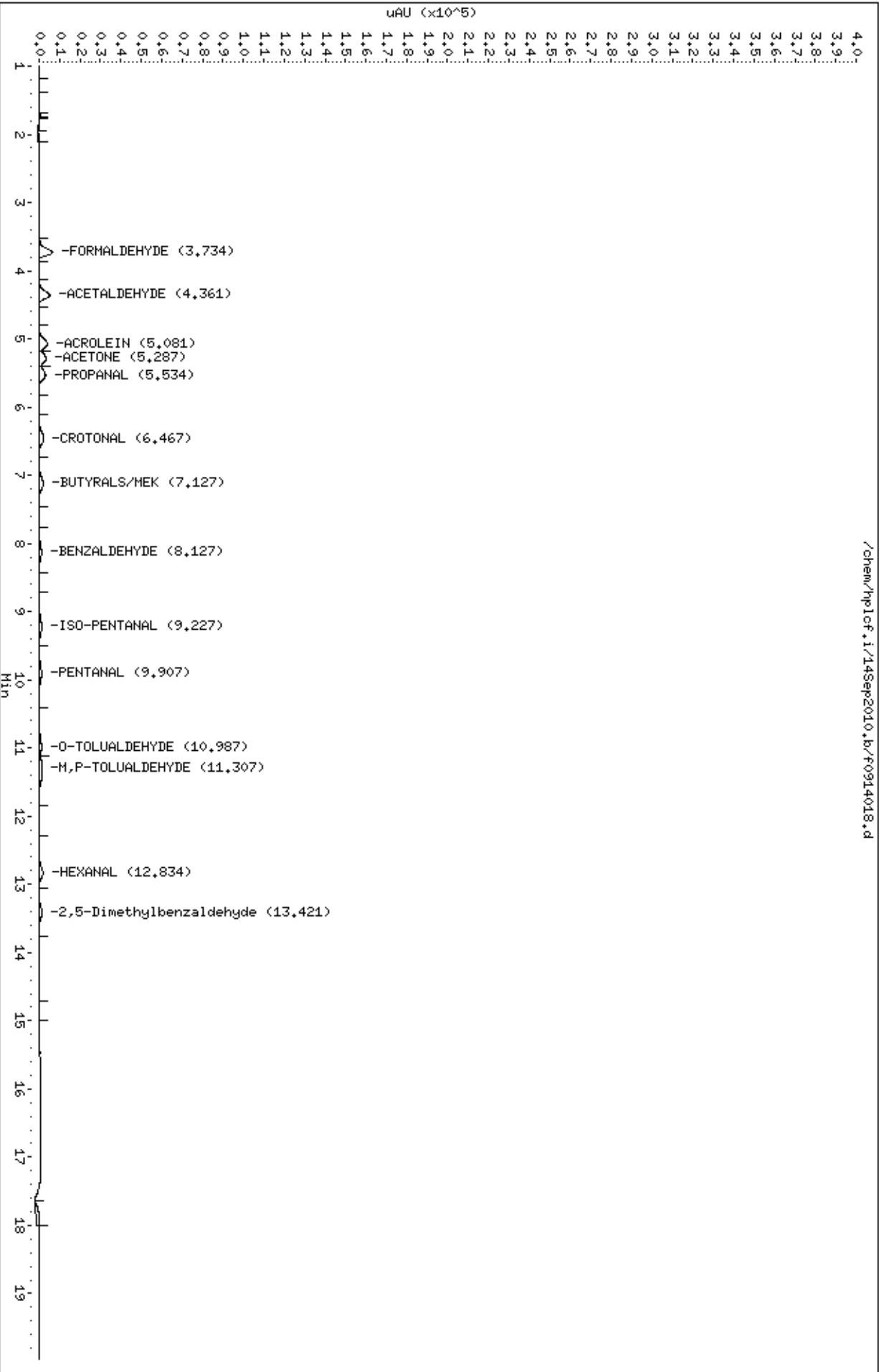
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914023.d

Lab Smp Id: 1838-34-1.0Client Smp ID: 5

Inj Date : 14-SEP-2010 21:38

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 21:38Cal File: f0914023.d

Als bottle: 1Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

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

Sample Info: f1838-34-1.0;5

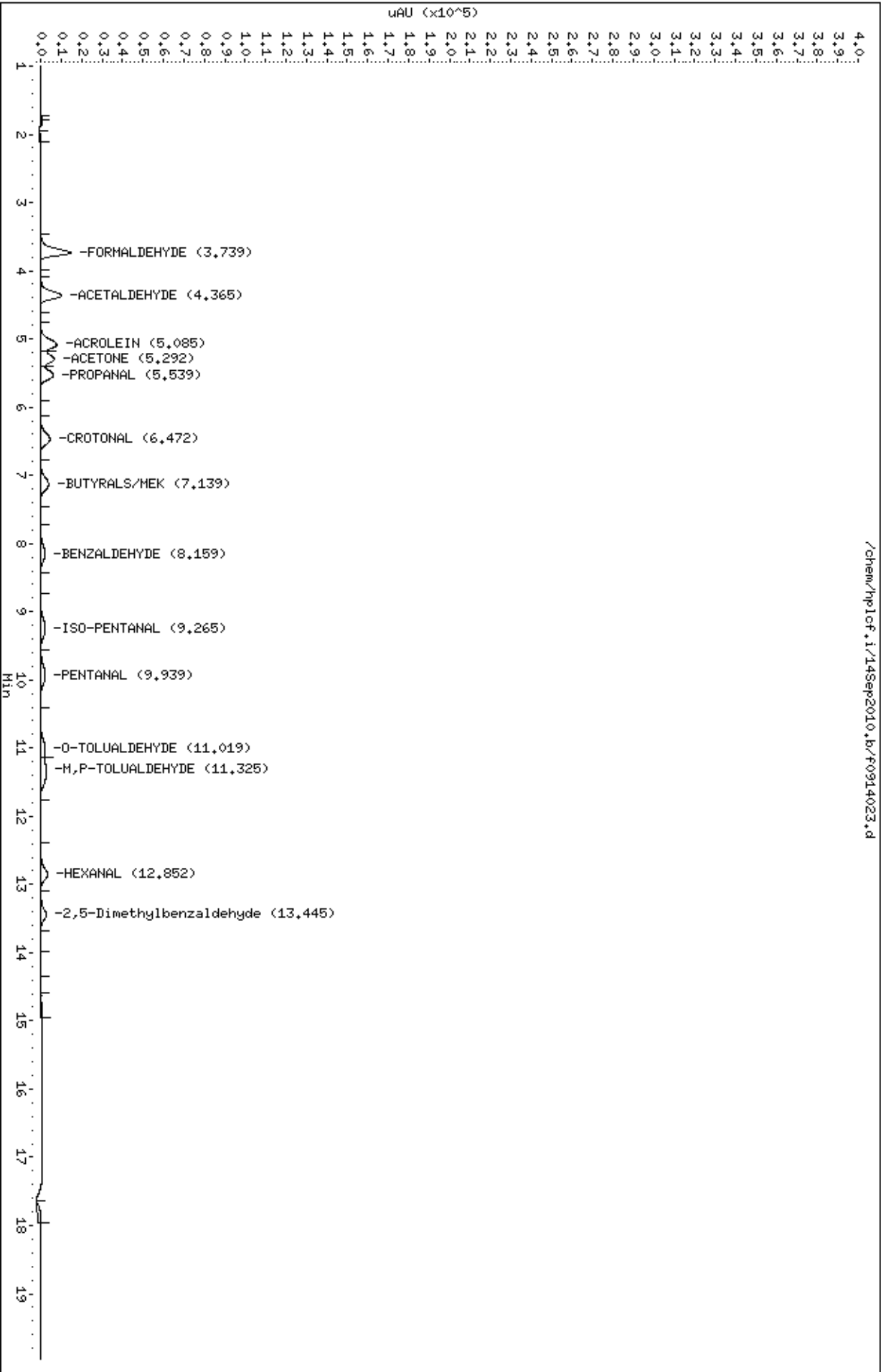
Purge Volume: 5.0

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/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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL - AMT	ON - COL
						(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/hp1cf.i/14Sep2010.b/f0914022.d

Date : 14-SEP-2010 21:17

Client ID: 5

Sample Info: #1838-34-1.0;5

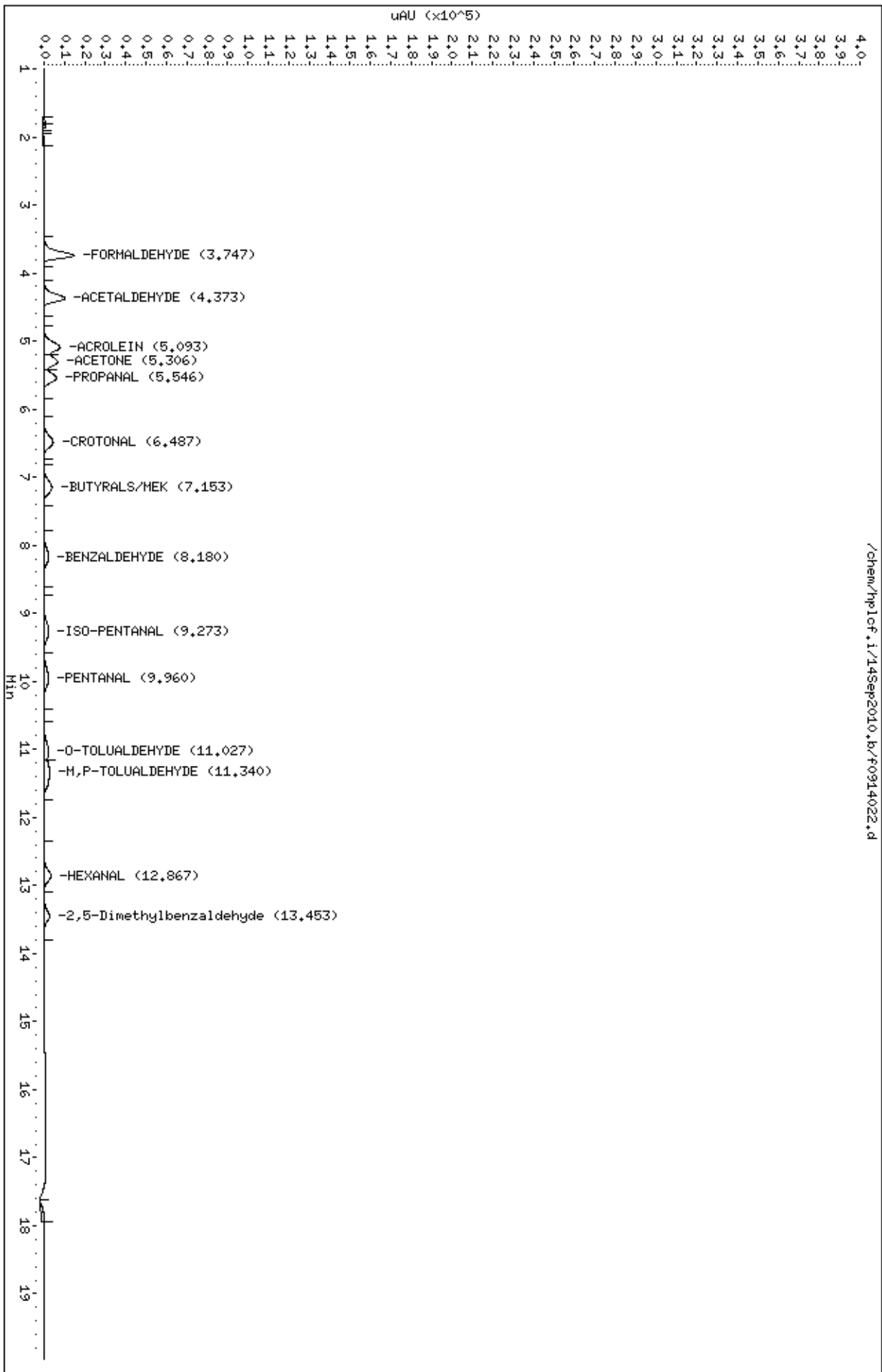
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

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

Data File: /chem/hp1cf.i/14Sep2010.b/f0914021.d

Date : 14-SEP-2010 20:56

Client ID: 5

Sample Info: #1838-34-1.0;5

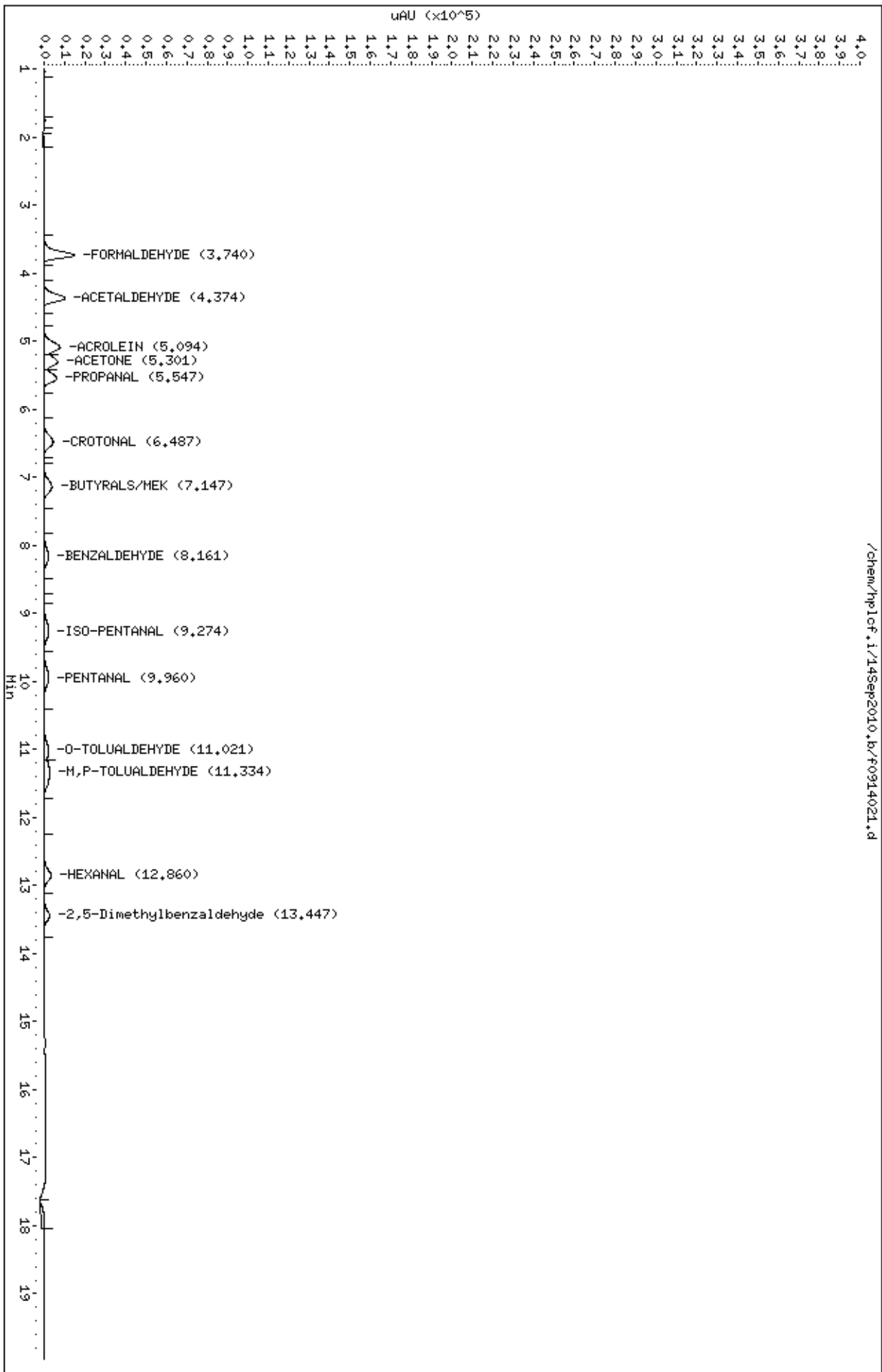
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914026.d

Lab Smp Id: 1838-32-4.0Client Smp ID: 6

Inj Date : 14-SEP-2010 22:41

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 22:41Cal File: f0914026.d

Als bottle: 1Calibration Sample, Level: 6

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE		CAL - AMT	ON - COL
						(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 ACRROLEIN	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/hp1cf.i/14Sep2010.b/f0914026.d

Date : 14-SEP-2010 22:41

Client ID: 6

Sample Info: f1838-32-4.0;6

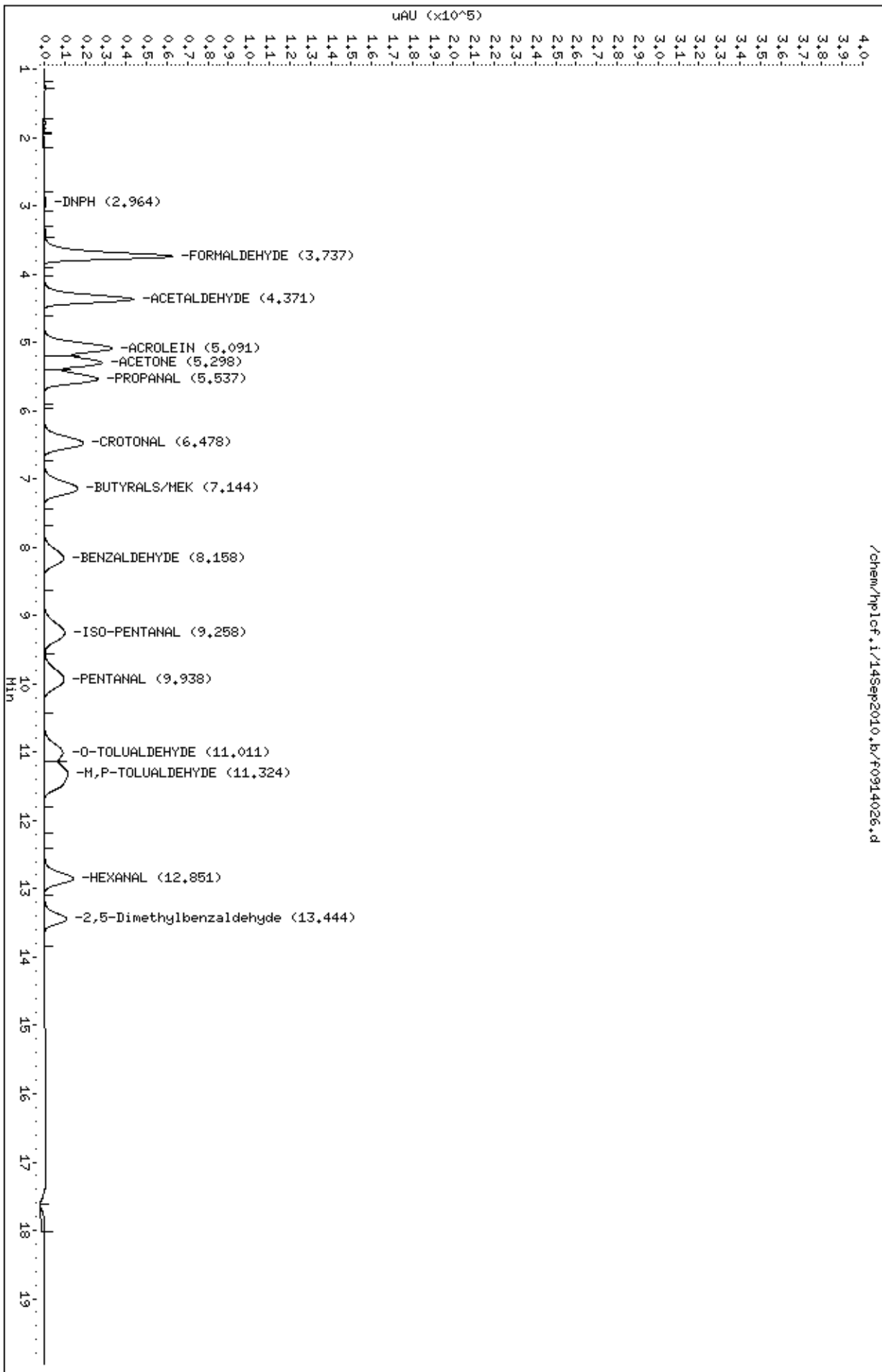
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914025.d

Lab Smp Id: 1838-32-4.0Client Smp ID: 6

Inj Date : 14-SEP-2010 22:20

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 22:20Cal File: f0914025.d

Als bottle: 1Calibration Sample, Level: 6

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL - AMT	ON - COL
						(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 ACRROLEIN	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/hp1cf.i/14Sep2010.b/f0914025.d

Date : 14-SEP-2010 22:20

Client ID: 6

Sample Info: f1838-32-4.0;6

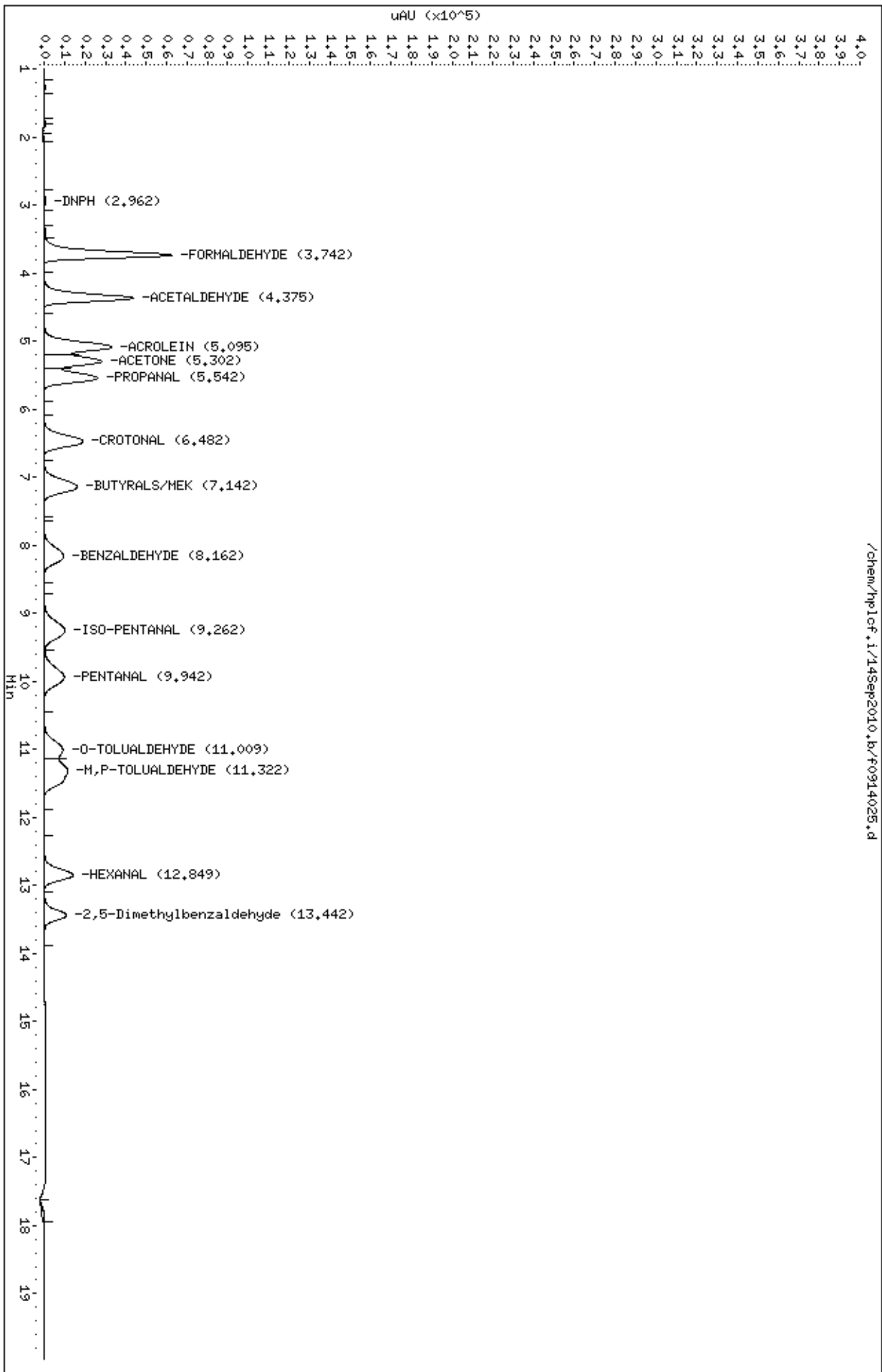
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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

Compounds						AMOUNTS	
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL - AMT	ON - COL
						(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 AROLEIN	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/hp1cf.i/14Sep2010.b/f0914024.d

Date : 14-SEP-2010 21:59

Client ID: 6

Sample Info: f1838-32-4.0;6

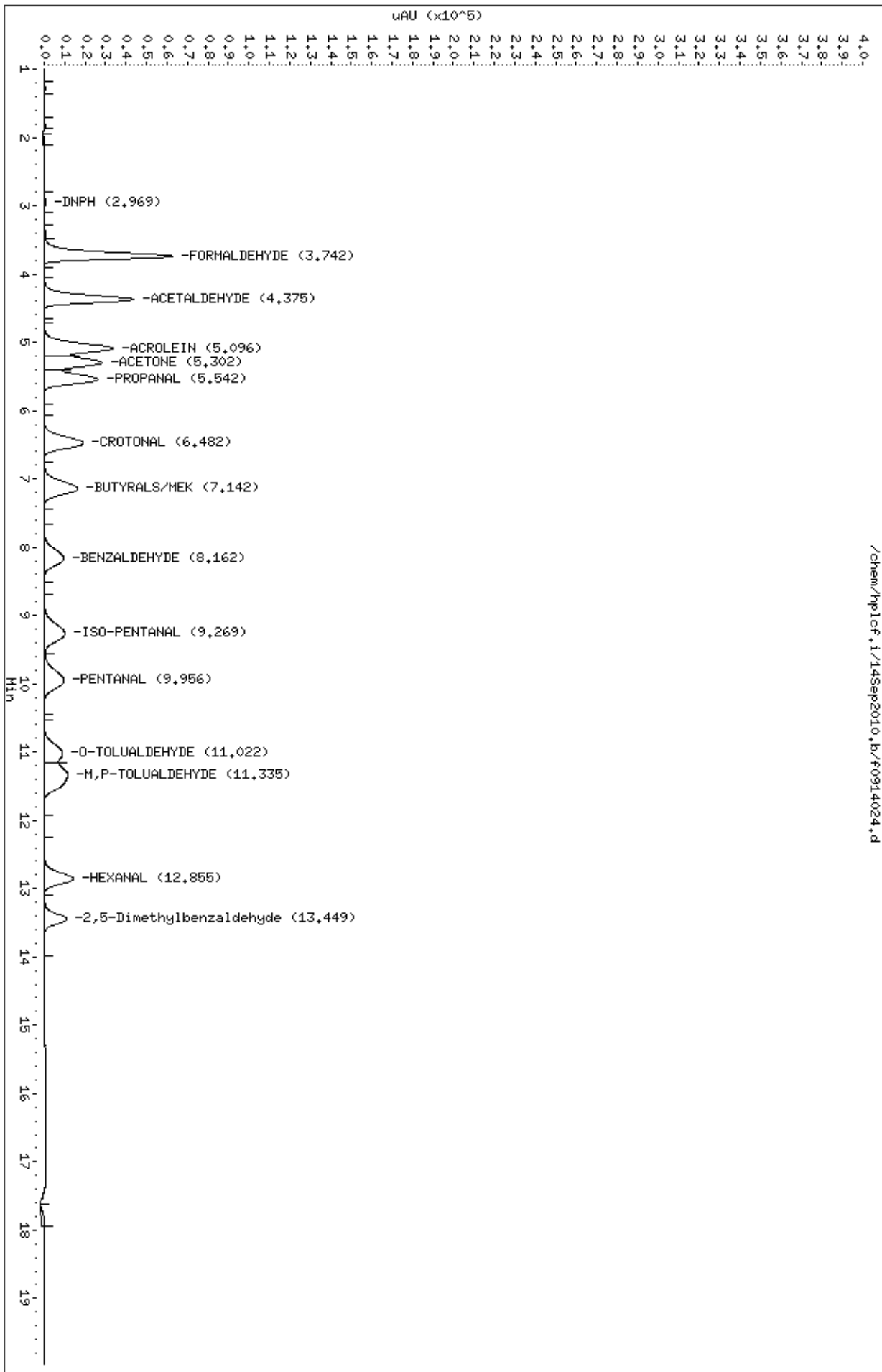
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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	AMOUNTS					
	RT			RESPONSE	CAL - AMT	ON - COL
	RT	EXP RT	DLT RT		(UG)	(UG)
=====	==	=====	=====	=====	=====	=====
2 FORMALDEHYDE	3.737	3.737	0.000	1086878	10.0000	10.2
3 ACETALDEHYDE	4.370	4.370	0.000	830306	10.0000	9.88
4 ACRROLEIN	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/hp1cf.i/14Sep2010.b/f0914029.d

Date : 14-SEP-2010 23:44

Client ID: 7

Sample Info: #1838-34-10.0:7

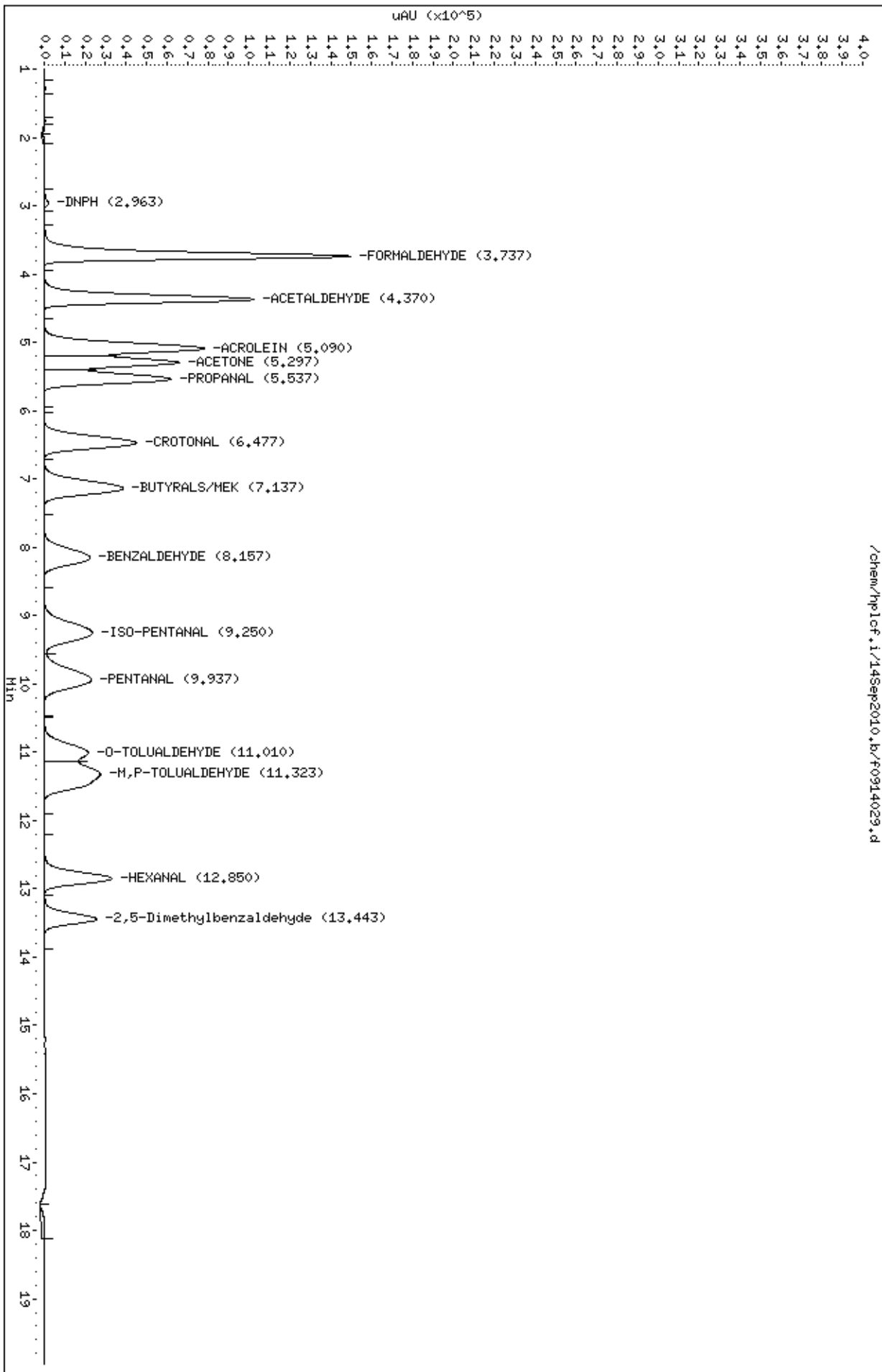
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	CAL - AMT			ON - COL		
	RT	EXP RT	DLT RT	RESPONSE	(UG)	(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 AROLEIN	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/hp1cf.i/14Sep2010.b/f0914028.d

Date : 14-SEP-2010 23:23

Client ID: 7

Sample Info: f1838-34-10.0:7

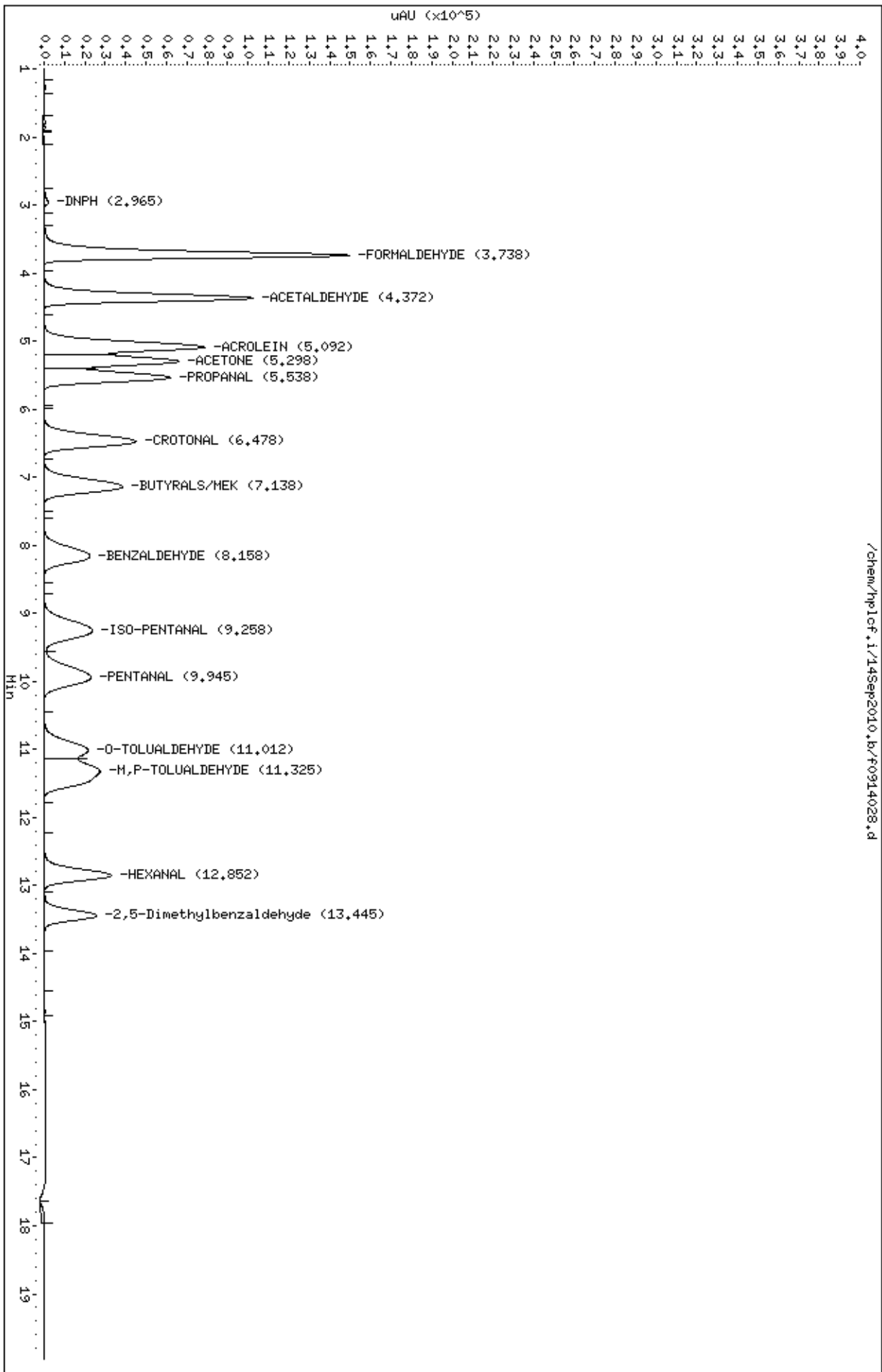
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914027.d

Lab Smp Id: 1838-34-10.0Client Smp ID: 7

Inj Date : 14-SEP-2010 23:02

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 14-SEP-2010 23:02Cal File: f0914027.d

Als bottle: 1Calibration Sample, Level: 7

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT			RESPONSE	CAL - AMT	ON - COL
	RT	EXP RT	DLT RT		(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 ACRROLEIN	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/hp1cf.i/14Sep2010.b/f0914027.d

Date : 14-SEP-2010 23:02

Client ID: 7

Sample Info: #1838-34-10.0:7

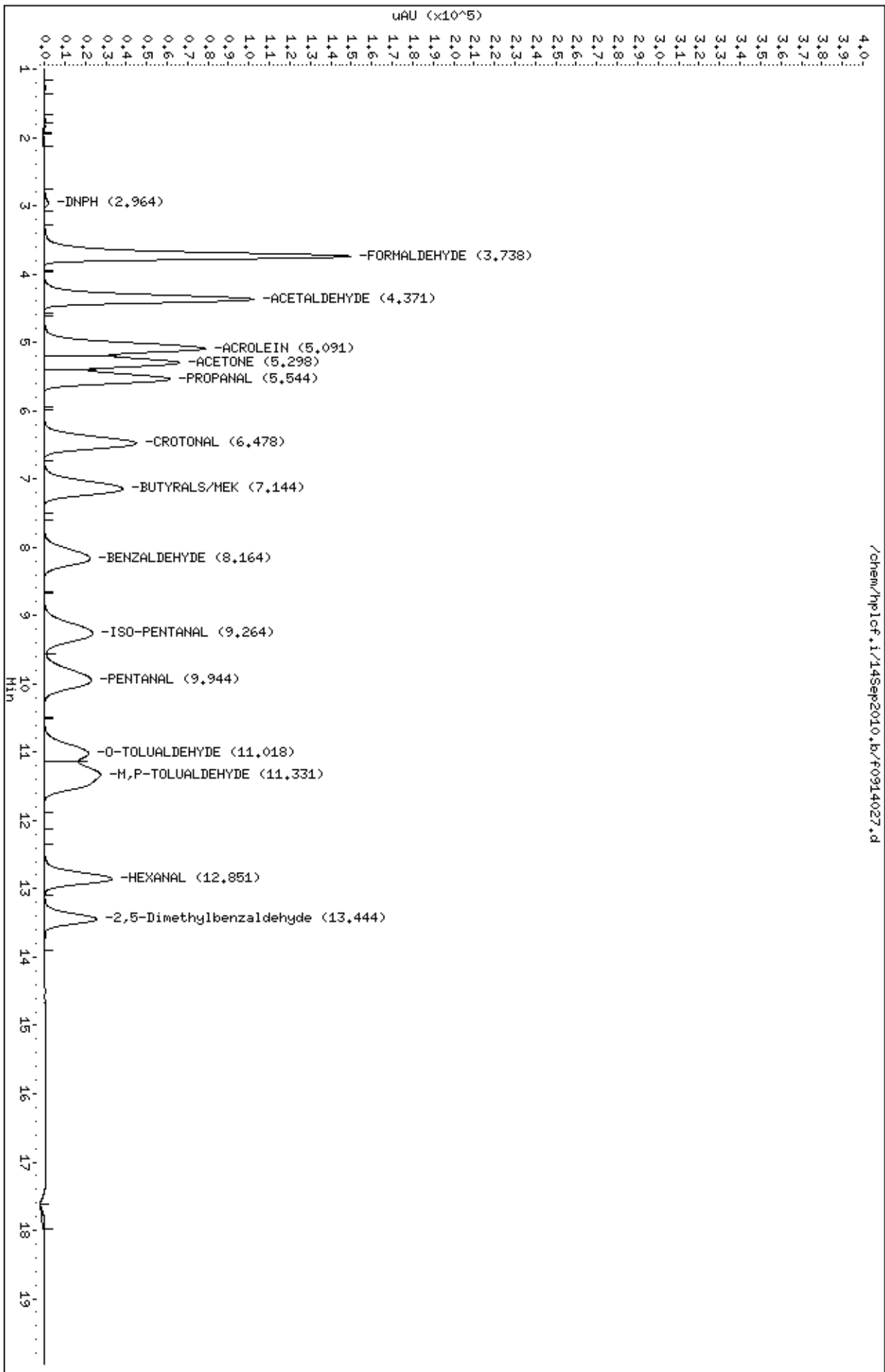
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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	AMOUNTS					
	RT			RESPONSE	CAL - AMT	ON - COL
	RT	EXP RT	DLT RT		(UG)	(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 ACRROLEIN	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

Sample Info: J1838-34-20.0:8

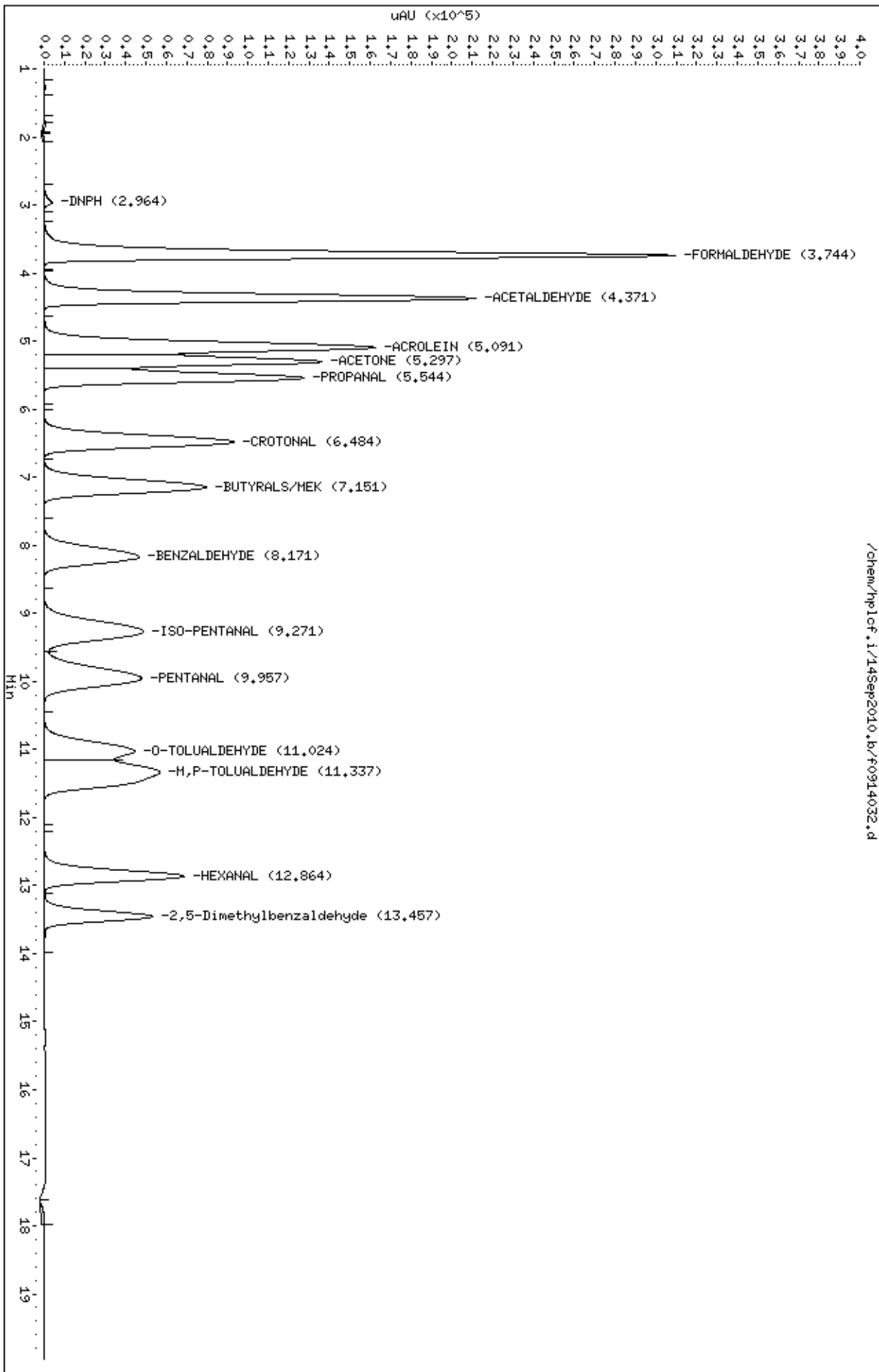
Purge Volume: 5.0

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/14Sep2010.b/f0914031.d

Lab Smp Id: 1838-34-20.0Client Smp ID: 8

Inj Date : 15-SEP-2010 00:25

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 15-SEP-2010 00:25Cal File: f0914031.d

Als bottle: 1Calibration Sample, Level: 8

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT			RESPONSE	CAL - AMT	ON - COL
	RT	EXP RT	DLT RT		(UG)	(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 ACRROLEIN	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/hp1cf.i/14Sep2010.b/f0914031.d

Date : 15-SEP-2010 00:25

Client ID: 8

Sample Info: J1838-34-20.0:8

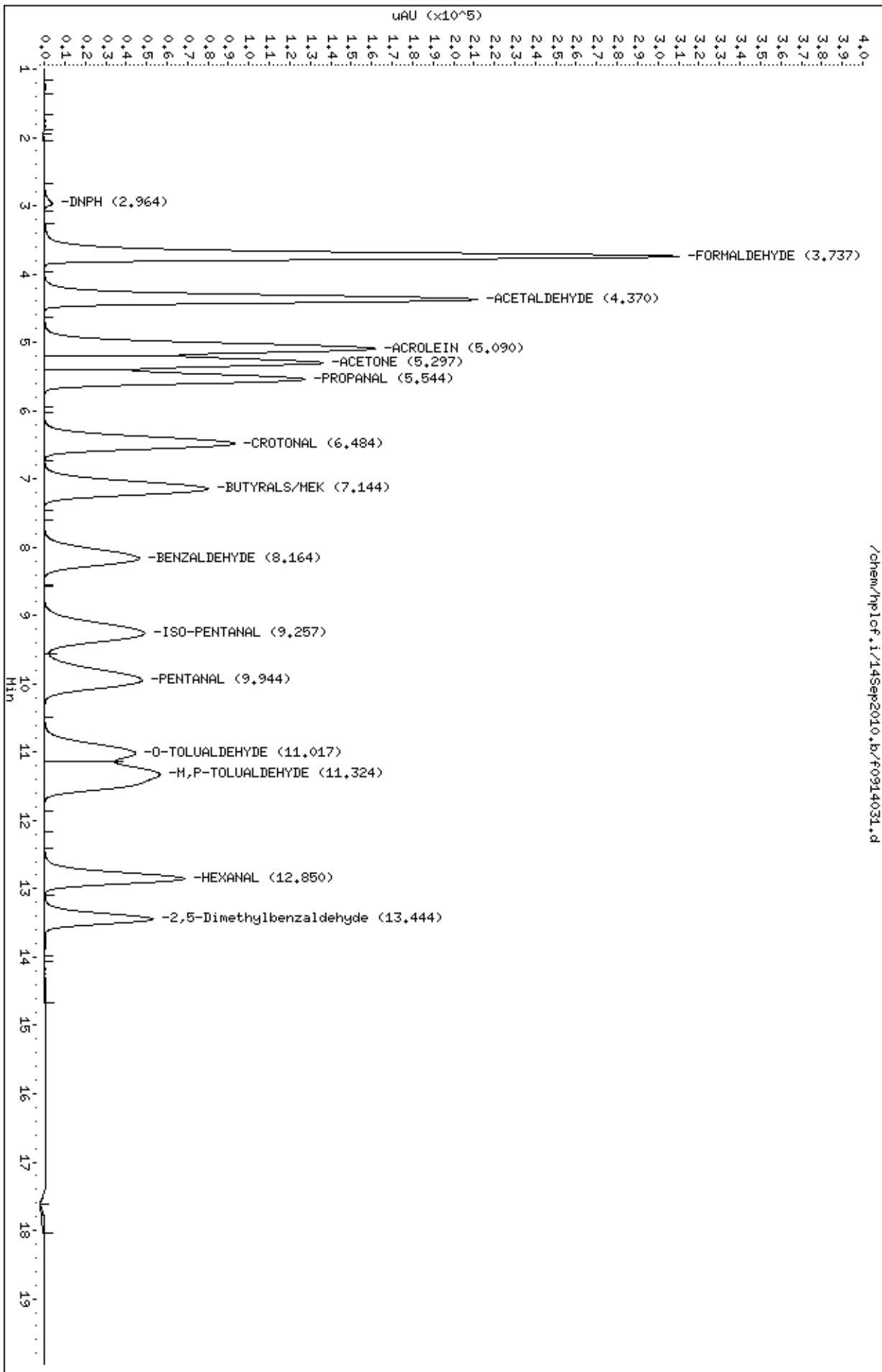
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914030.d

Lab Smp Id: 1838-34-20.0Client Smp ID: 8

Inj Date : 15-SEP-2010 00:04

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 15-SEP-2010 00:04Cal File: f0914030.d

Als bottle: 1Calibration Sample, Level: 8

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	CAL - AMT			ON - COL		
	(	UG)	(	UG)	(	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/hp1cf.i/14Sep2010.b/f0914030.d

Date : 15-SEP-2010 00:04

Client ID: 8

Sample Info: J1838-34-20.0:8

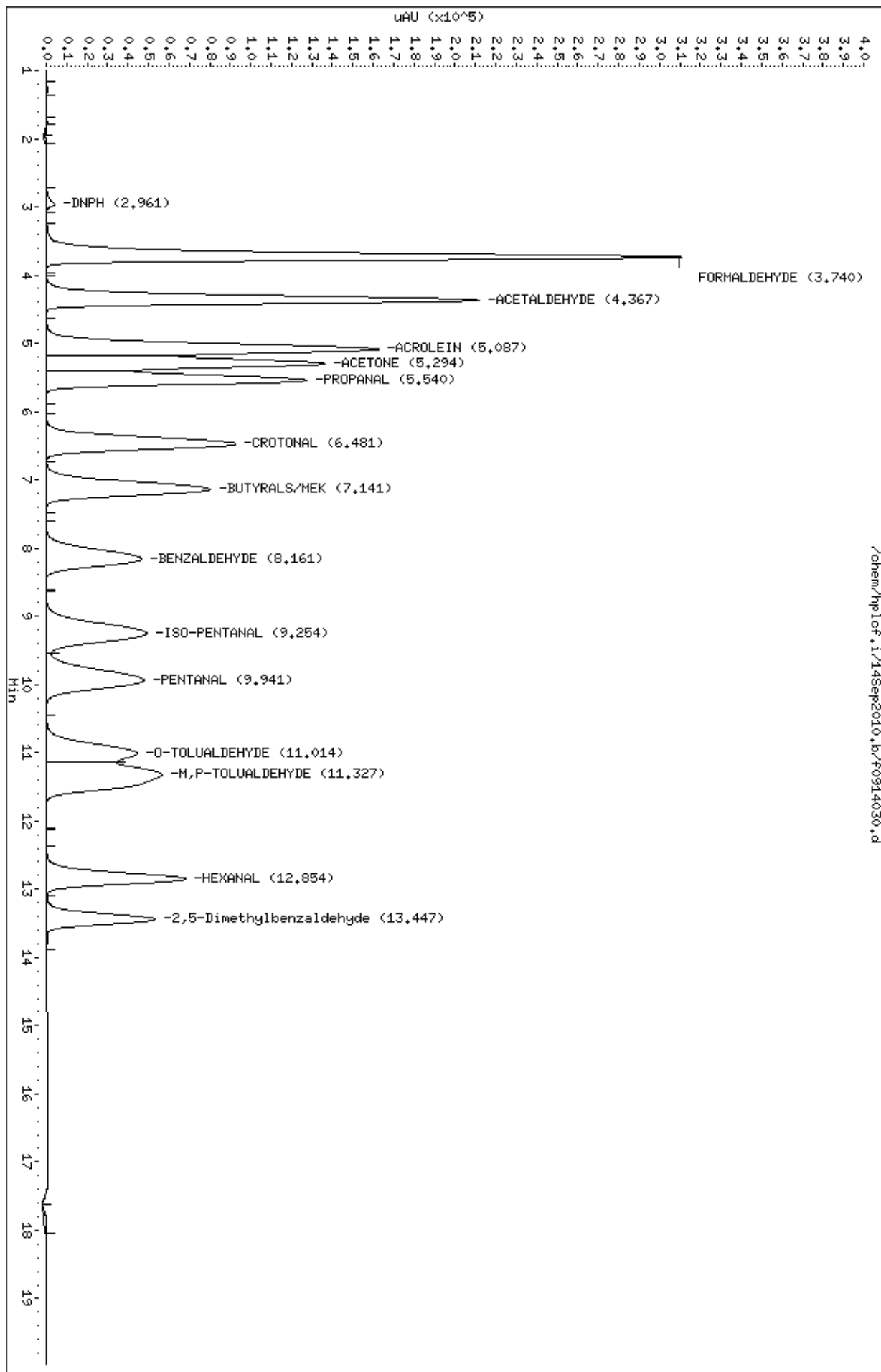
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/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					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
					(UG)	(UG)
=====	==	=====	=====	=====	=====	=====
2 FORMALDEHYDE	3.744	3.744	0.000	5735655	50.0000	52.9
3 ACETALDEHYDE	4.378	4.378	0.000	4320919	50.0000	51.1
4 ACROLEIN	5.104	5.104	0.000	4122815	50.0000	51.3
5 ACETONE	5.311	5.311	0.000	3151407	50.0000	50.9
6 PROPANAL	5.558	5.558	0.000	3149158	50.0000	50.6
7 CROTONAL	6.498	6.498	0.000	2859994	50.0000	50.6
9 BUTYRALS/MEK	7.171	7.171	0.000	2736122	50.0000	51.0
10 BENZALDEHYDE	8.191	8.191	0.000	1932493	50.0000	50.9
11 ISO-PENTANAL	9.298	9.298	0.000	2308391	50.0000	51.2
12 PENTANAL	9.984	9.984	0.000	2269288	50.0000	51.2
14 O-TOLUALDEHYDE	11.058	11.058	0.000	1813745	50.0000	50.0
15 M,P-TOLUALDEHYDE	11.364	11.364	0.000	3063405	100.000	100
16 HEXANAL	12.878	12.878	0.000	1989961	50.0000	49.6
17 2,5-Dimethylbenzaldehyde	13.478	13.478	0.000	1422785	50.0000	48.3

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

Date : 15-SEP-2010 01:49

Client ID: 9

Sample Info: J1838-34-50.0:9

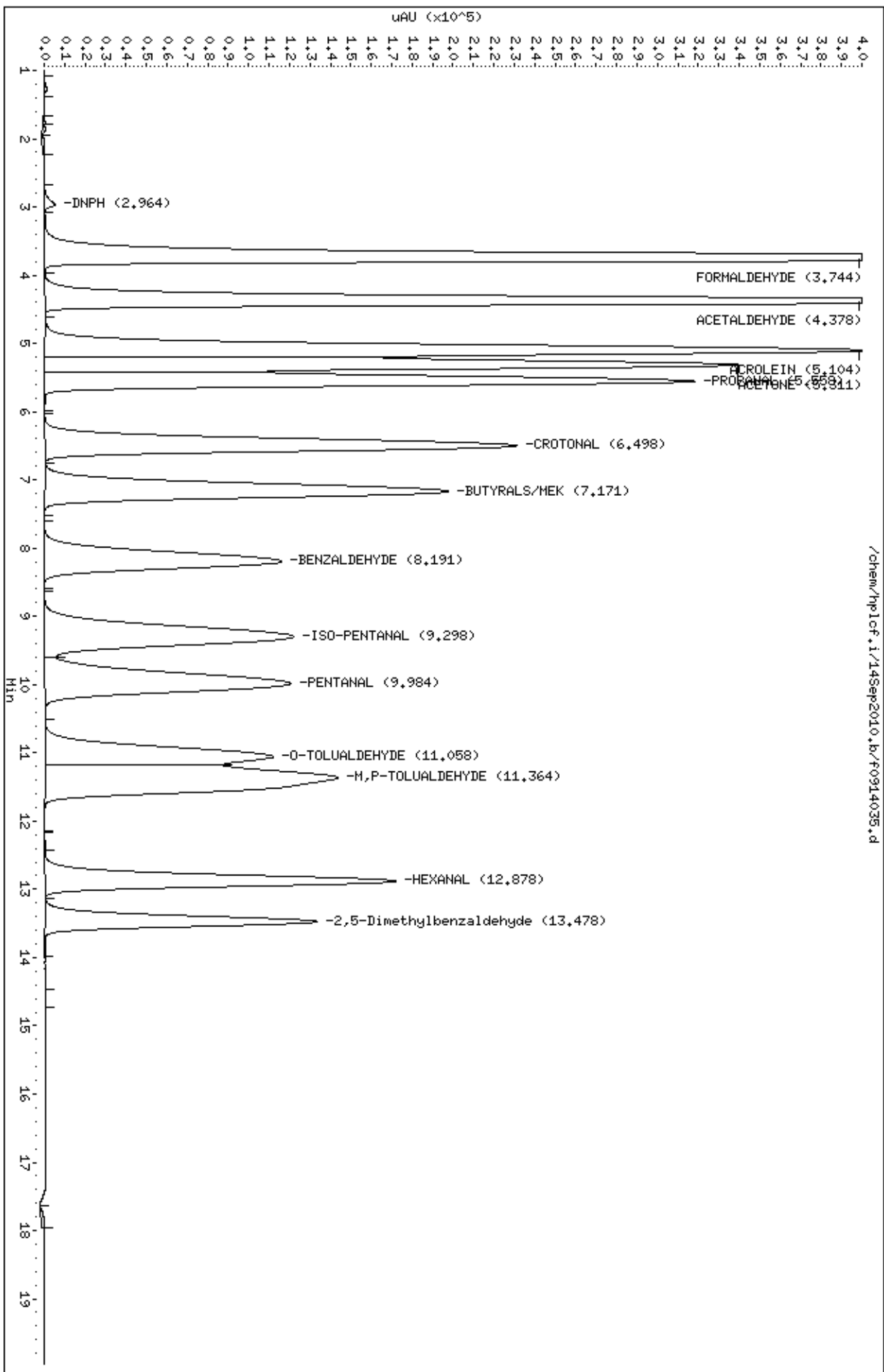
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



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

Date : 15-SEP-2010 01:28

Client ID: 9

Sample Info: J1838-34-50.0:9

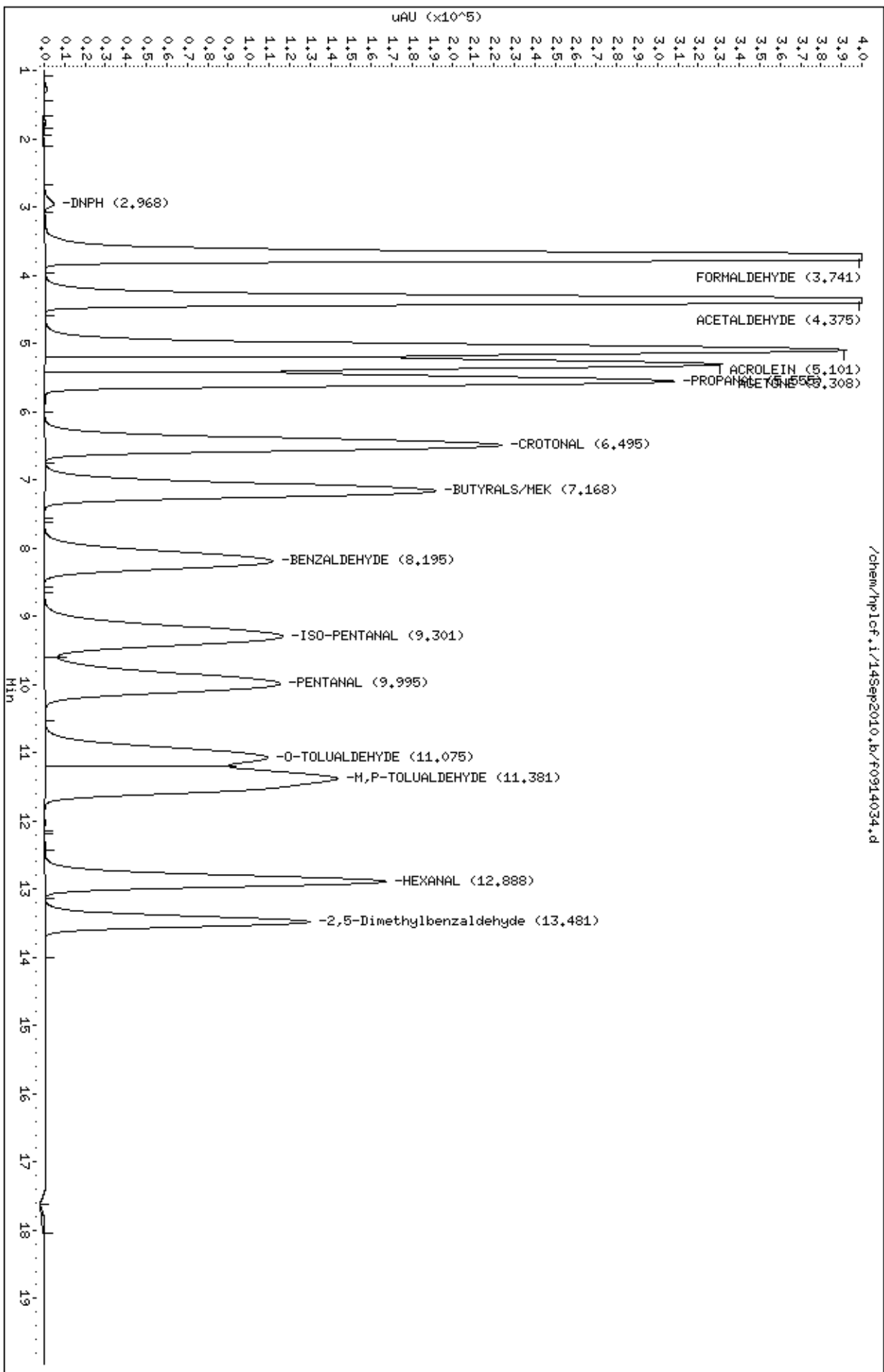
Purge Volume: 5.0

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/14Sep2010.b/f0914033.d

Lab Smp Id: 1838-34-50.0Client Smp ID: 9

Inj Date : 15-SEP-2010 01:07

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 15-SEP-2010 01:07Cal File: f0914033.d

Als bottle: 1Calibration Sample, Level: 9

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

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

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

Date : 15-SEP-2010 01:07

Client ID: 9

Sample Info: J1838-34-50.0:9

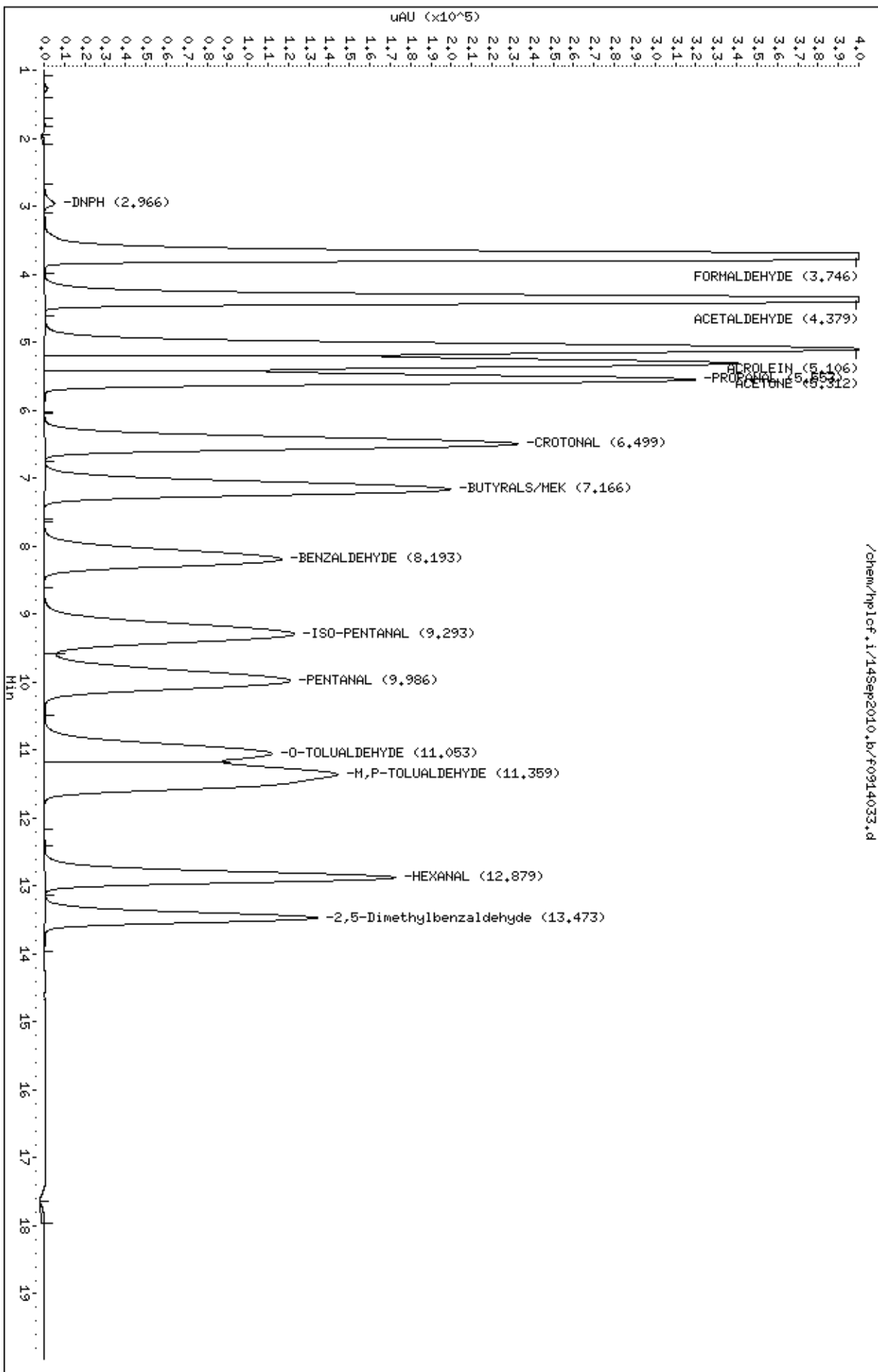
Purge Volume: 5.0

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/14Sep2010.b/f0914038.d

Lab Smp Id: 1838-34-75.0Client Smp ID: 10

Inj Date : 15-SEP-2010 02:52

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 15-SEP-2010 02:52Cal File: f0914038.d

Als bottle: 1Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
					(UG)	(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 AROLEIN	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/hp1cf.i/14Sep2010.b/f0914038.d

Date : 15-SEP-2010 02:52

Client ID: 10

Sample Info: f1838-34-75.0:10

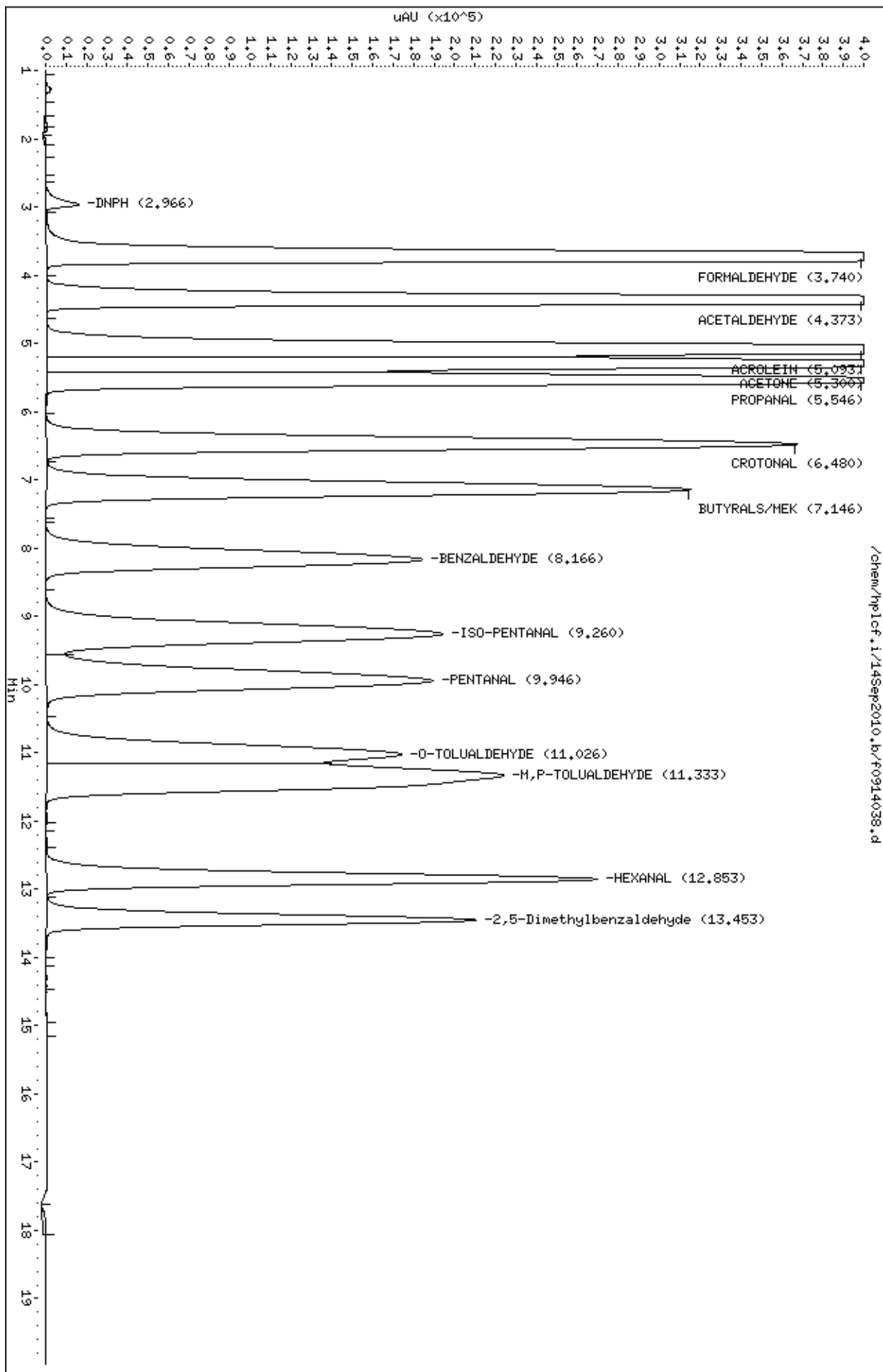
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914037.d

Lab Smp Id: 1838-34-75.0Client Smp ID: 10

Inj Date : 15-SEP-2010 02:31

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 15-SEP-2010 02:31Cal File: f0914037.d

Als bottle: 1Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
					(UG)	(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 AROLEIN	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/hp1cf.i/14Sep2010.b/f0914037.d

Date : 15-SEP-2010 02:31

Client ID: 10

Sample Info: f1838-34-75.0:10

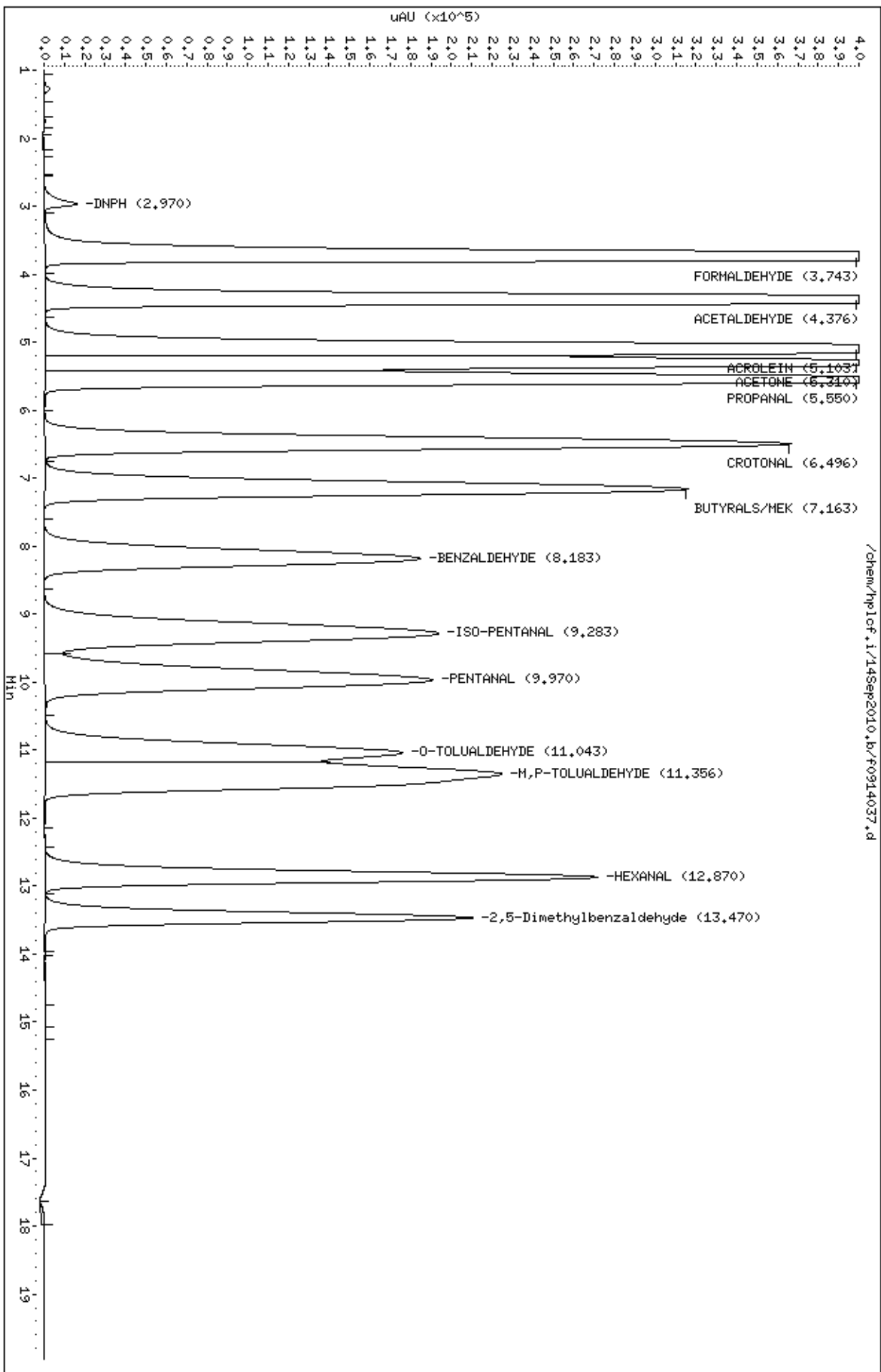
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.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/14Sep2010.b/f0914036.d

Lab Smp Id: 1838-34-75.0Client Smp ID: 10

Inj Date : 15-SEP-2010 02:10

Operator : CRLInst 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 cleafQuant Type: ESTD

Cal Date : 15-SEP-2010 02:10Cal File: f0914036.d

Als bottle: 1Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * Vs/Vo * CpndVariable

Vs5.00000Sample Final Volume (mL)

Vo5.00000Curve based Volume (mL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
					(UG)	(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 AROLEIN	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/hp1cf.i/14Sep2010.b/f0914036.d

Date : 15-SEP-2010 02:10

Client ID: 10

Sample Info: f1838-34-75.0:10

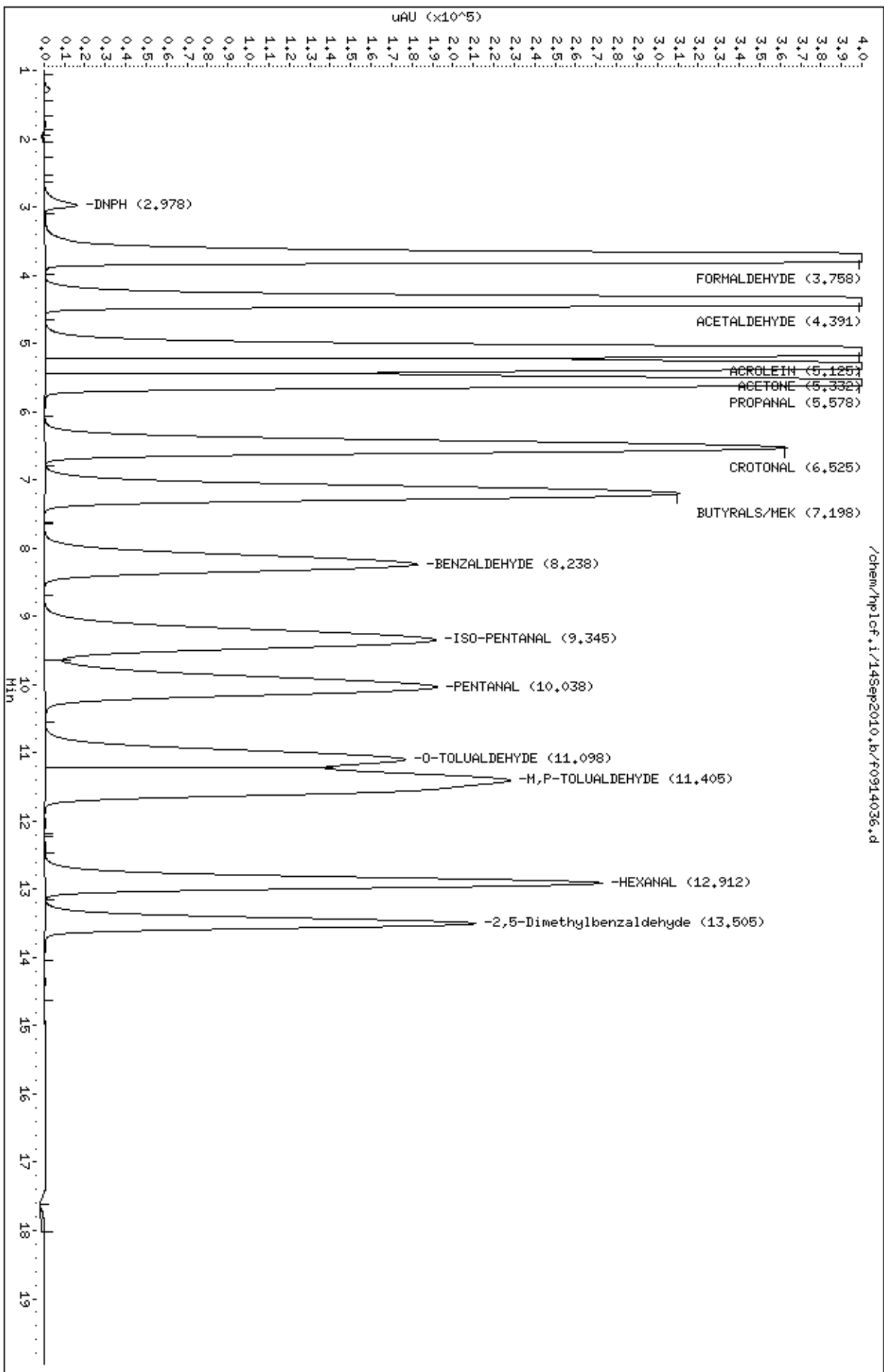
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplcf.i Injection Date: 07-DEC-2010 11:14

Lab File ID: f1207004.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/07Dec2010.b/F10D0914.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 DNPH	++++	708	0.100	++++	10.00000	Averaged<-
2 FORMALDEHYDE	109474	114544	0.010	-4.63096	10.00000	Averaged
3 ACETALDEHYDE	85159	86152	0.010	-1.16603	10.00000	Averaged
5 ACETONE	62324	61180	0.010	1.83649	10.00000	Averaged
6 PROPANAL	62684	57108	0.010	8.89624	10.00000	Averaged
7 CROTONAL	56944	58347	0.010	-2.46324	10.00000	Averaged
9 BUTYRALS/MEK	54133	52580	0.010	2.86919	10.00000	Averaged
10 BENZALDEHYDE	38259	36412	0.010	4.82811	10.00000	Averaged
11 ISO-PENTANAL	45456	45377	0.010	0.17401	10.00000	Averaged
12 PENTANAL	44700	41467	0.010	7.23320	10.00000	Averaged
14 O-TOLUALDEHYDE	36466	38790	0.010	-6.37288	10.00000	Averaged
15 M,P-TOLUALDEHYDE	30634	28482	0.010	7.02384	10.00000	Averaged
16 HEXANAL	40334	40431	0.010	-0.24019	10.00000	Averaged
17 2,5-Dimethylbenzaldehyde	29495	28806	0.010	2.33549	10.00000	Averaged

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207004.d

Lab Smp Id: 1838-41-10Client Smp ID: CCV

Inj Date : 07-DEC-2010 11:14

Operator : LZInst ID: hplcf.i

Smp Info : ;1838-41-10;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:31 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1Continuing Calibration Sample

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: T0-11+17.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 VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.976	2.976	0.000	7080	10.0000	
2 FORMALDEHYDE	3.742	3.742	0.000	1145440	10.0000	10.5
3 ACETALDEHYDE	4.369	4.369	0.000	861516	10.0000	10.1
5 ACETONE	5.276	5.276	0.000	611797	10.0000	9.82
6 PROPANAL	5.522	5.522	0.000	571076	10.0000	9.11
7 CROTONAL	6.442	6.442	0.000	583468	10.0000	10.2
9 BUTYRALS/MEK	7.089	7.089	0.000	525801	10.0000	9.71
10 BENZALDEHYDE	8.102	8.102	0.000	364117	10.0000	9.52
11 ISO-PENTANAL	9.136	9.136	0.000	453770	10.0000	9.98
12 PENTANAL	9.802	9.802	0.000	414670	10.0000	9.28
14 O-TOLUALDEHYDE	10.922	10.922	0.000	387901	10.0000	10.6
15 M,P-TOLUALDEHYDE	11.216	11.216	0.000	569642	20.0000	18.6
16 HEXANAL	12.736	12.736	0.000	404309	10.0000	10.0
17 2,5-Dimethylbenzaldehyde	13.342	13.342	0.000	288061	10.0000	9.77

Data File: /chem/hp1cf.i/07Dec2010.b/f1207004.d

Date : 07-DEC-2010 11:14

Client ID: CCV

Sample Info: f1838-41-10;CCV

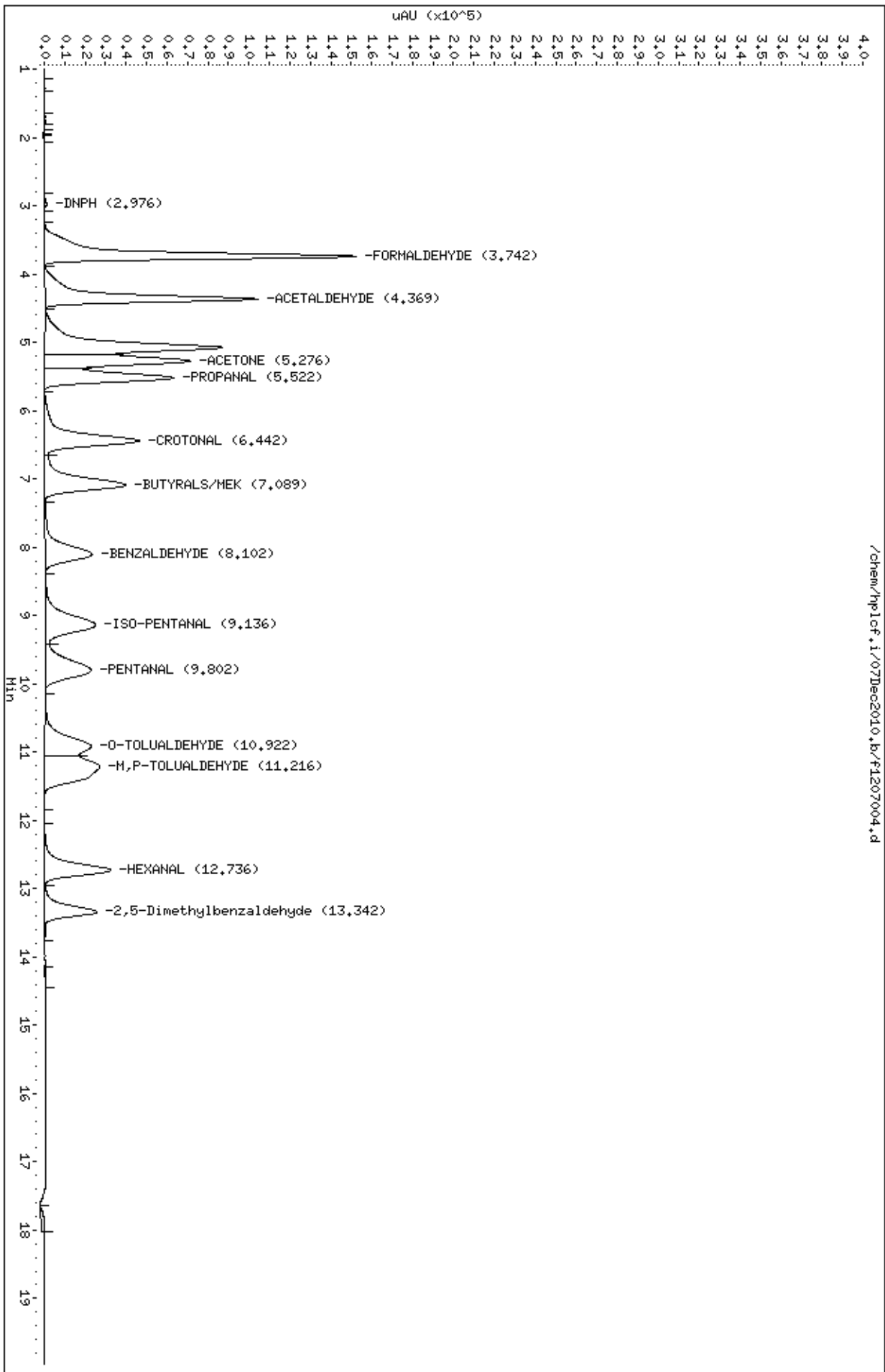
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,T0-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1206005.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 07-DEC-2010 11:35

Operator : LZInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 07-Dec-2010 11:41 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: T0-11+17.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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)	
=====	==	=====	=====	=====	=====	=====	
1 DNPH				Compound Not Detected.			
2 FORMALDEHYDE				Compound Not Detected.			
3 ACETALDEHYDE				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	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
					(ng)	(ug)
=====	==	=====	=====	=====	=====	=====

Data File: /chem/hplcf.i/07Dec2010.b/f1207005.d

Page 1

Date : 07-DEC-2010 11:35

Client ID: LAB BLANK

Instrument: hplcf.i

Sample Info: JCCB;LAB BLANK

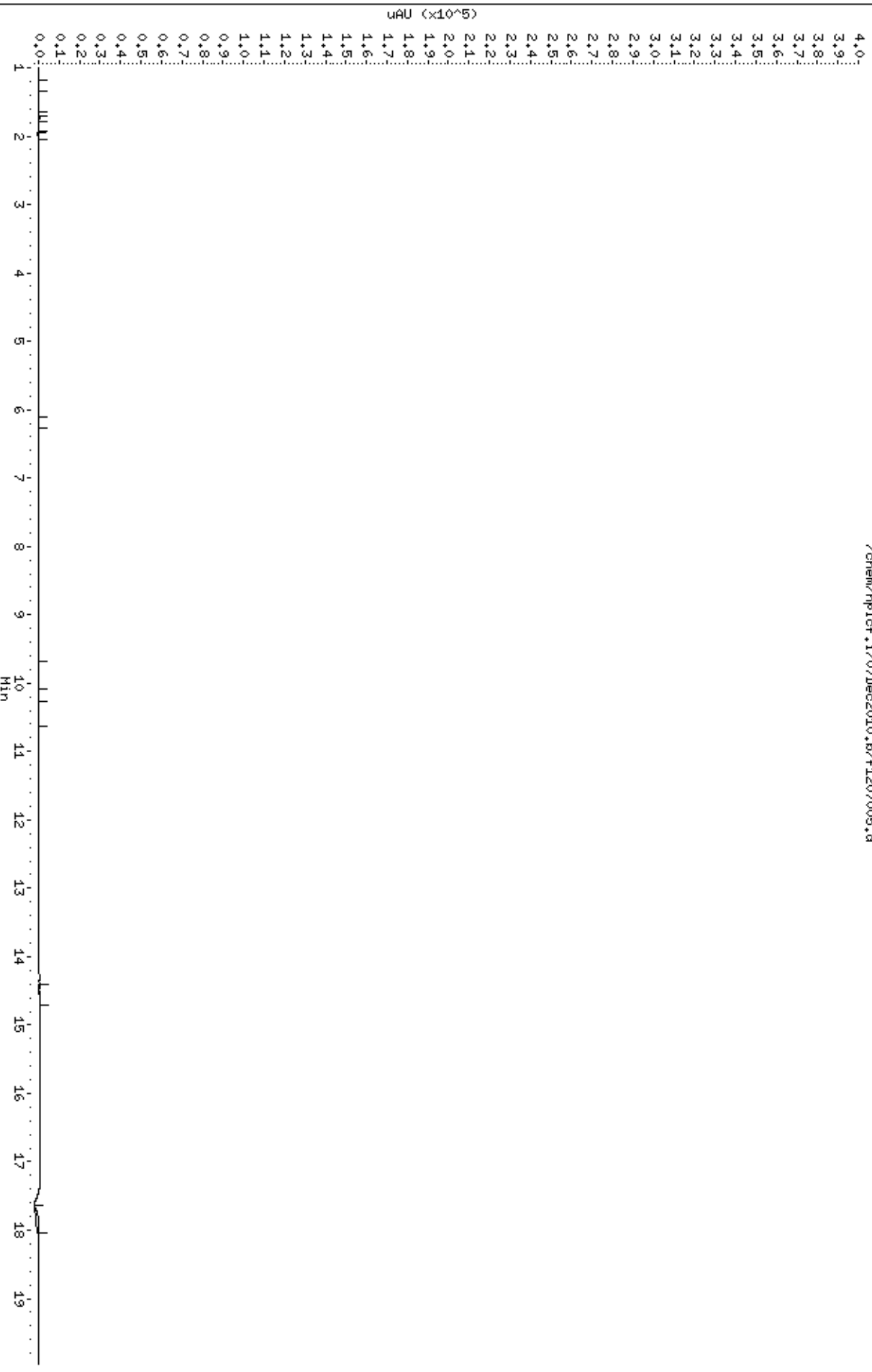
Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00

/chem/hplcf.i/07Dec2010.b/f1207005.d



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: 07Dec2010

Client Smp ID: CCV

Sample Point:

Date Received:

Quant Type: ESTD

Level: MED

Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
119-26-6-----	DNPH	0.00	
50-00-0-----	FORMALDEHYDE	10.5	
=====	=====	=====	=====

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207021.d

Lab Smp Id: 1838-41-10Client Smp ID: CCV

Inj Date : 07-DEC-2010 16:50

Operator : LZInst ID: hplcf.i

Smp Info : ;1838-41-10;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: METHSPIKE

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: form.sub

Target Version: 3.50

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 VariableLocal Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.982	2.941	0.041	6121		
2 FORMALDEHYDE	3.756	3.694	0.062	1151000	10.5139	10.5

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-41-10	Client Smp ID: CCV
Level: MED	Operator: LZ
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.5	105.14	90-110

Data File: /chem/hp1cf.i/07Dec2010.b/f1207021.d

Date : 07-DEC-2010 16:50

Client ID: CCV

Sample Info: f1838-41-10;CCV

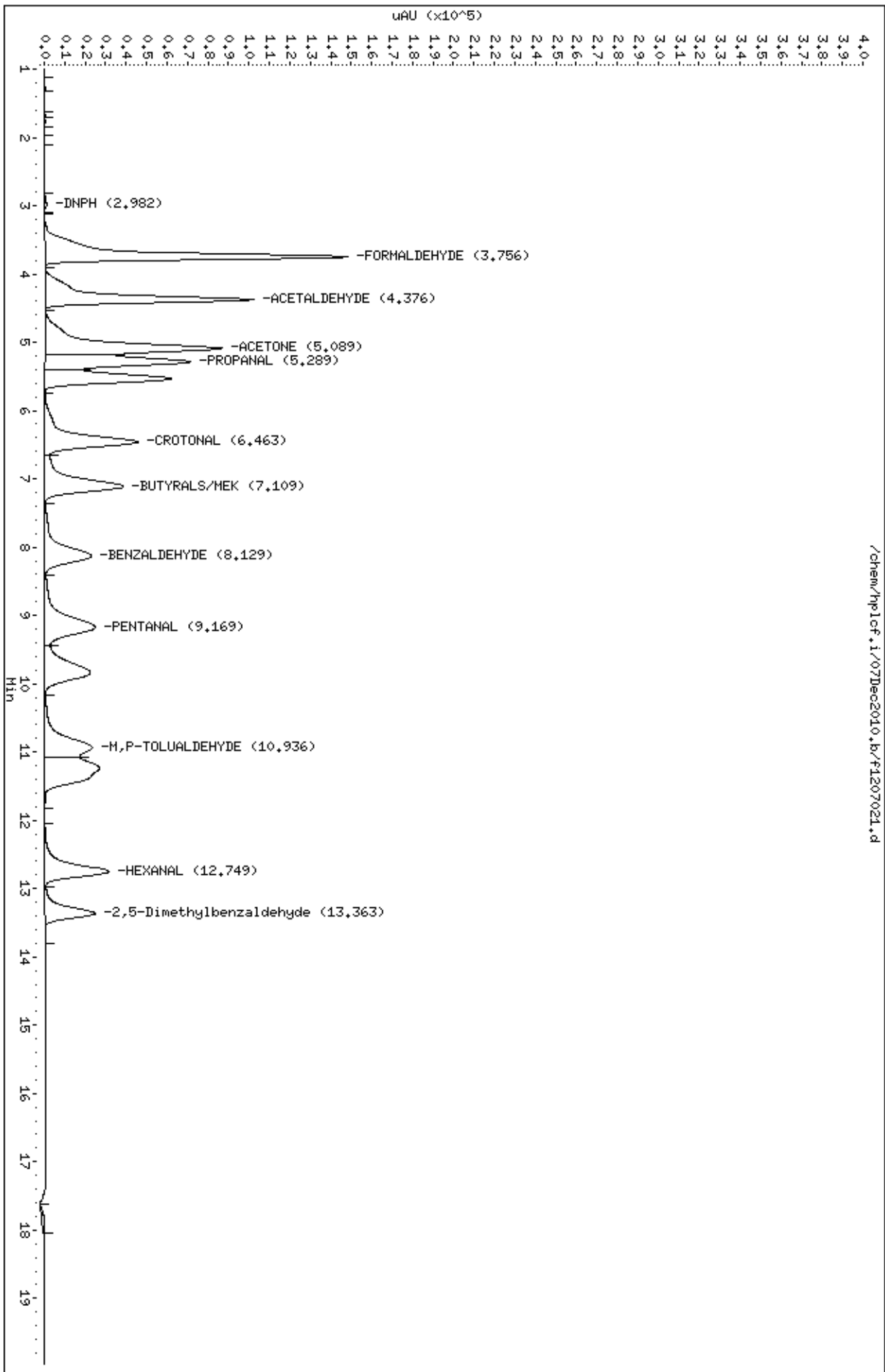
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: LZ

Column diameter: 2.00



Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207022.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 07-DEC-2010 17:11

Operator : LZInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

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

Data File: /chem/hplcf.i/07Dec2010.b/f1207022.d

Page 1

Date : 07-DEC-2010 17:11

Client ID: LAB BLANK

Instrument: hplcf.i

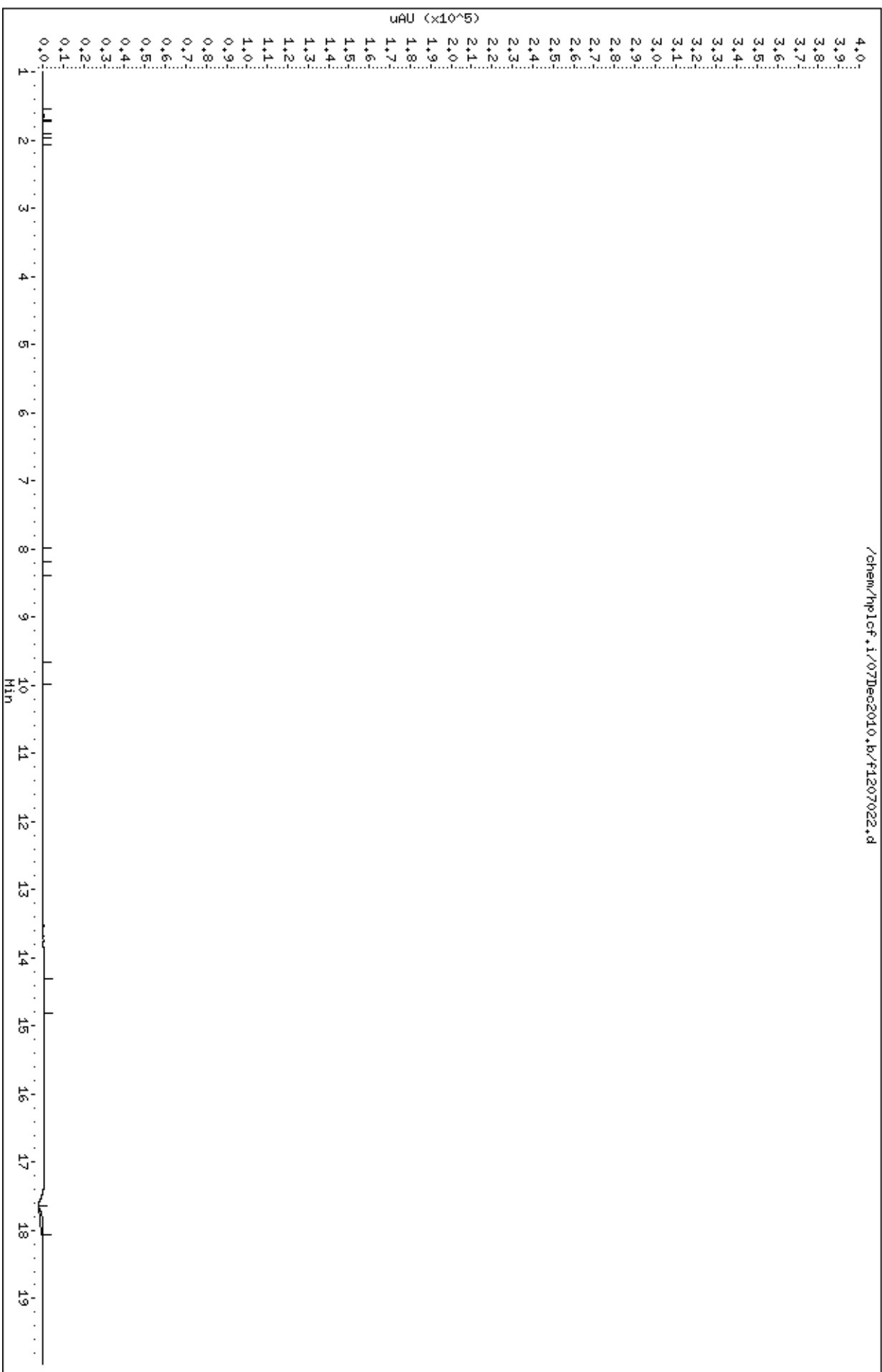
Sample Info: JCCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:Client SDG: 07Dec2010

Lab Smp Id: 1838-41-10Client Smp ID: CCV

Sample Location:Sample Point:

Sample Date:Date Received:

Sample Matrix: AIRQuant Type: ESTD

Analysis Type: OTHERLevel: MED

Data Type: LC DATAOperator: LZ

Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
119-26-6-----	DNPH	0.00	
50-00-0-----	FORMALDEHYDE	10.6	
=====		=====	=====

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207036.d

Lab Smp Id: 1838-41-10Client Smp ID: CCV

Inj Date : 07-DEC-2010 22:04

Operator : LZInst ID: hplcf.i

Smp Info : ;1838-41-10;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: METHSPIKE

Dil Factor: 1.00000

Integrator: FalconCompound 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	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd VariableLocal Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.982	2.941	0.041	6094		
2 FORMALDEHYDE	3.748	3.694	0.054	1155252	10.5527	10.6

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-41-10	Client Smp ID: CCV
Level: MED	Operator: LZ
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.6	105.53	90-110

Data File: /chem/hp1cf.i/07Dec2010.b/f1207036.d

Page 1

Date : 07-DEC-2010 22:04

Client ID: CCV

Instrument: hp1cf.i

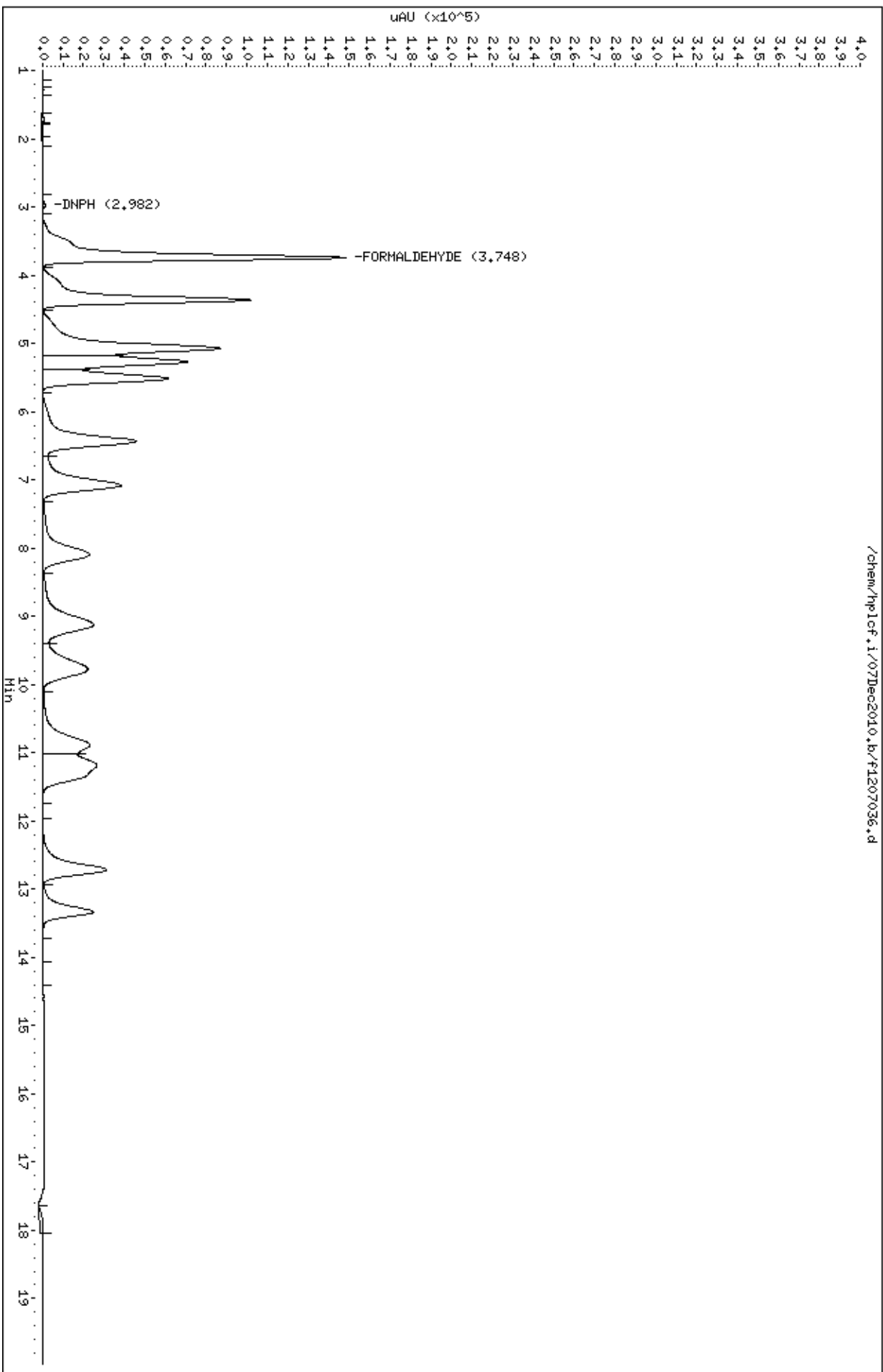
Sample Info: f1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

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/07Dec2010.b/f1207037.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 07-DEC-2010 22:24

Operator : LZInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.946	2.941	0.005	1364		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207037.d

Page 1

Date : 07-DEC-2010 22:24

Client ID: LAB BLANK

Instrument: hplcf.i

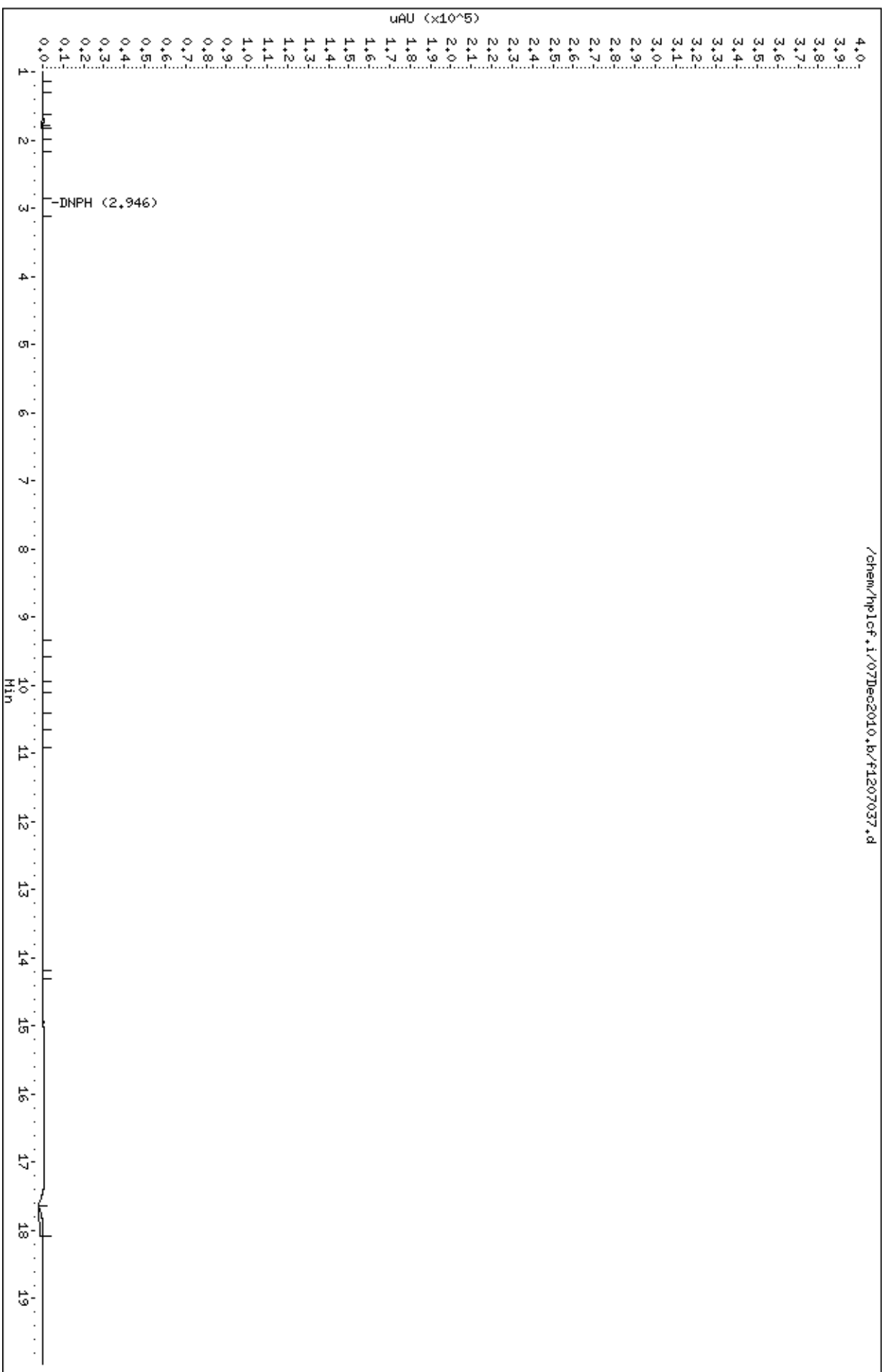
Sample Info: JCCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

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: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
119-26-6-----	DNPH	0.00	
50-00-0-----	FORMALDEHYDE	10.6	
=====		=====	=====

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207049.d

Lab Smp Id: 1838-41-10Client Smp ID: CCV

Inj Date : 08-DEC-2010 02:35

Operator : LZInst ID: hplcf.i

Smp Info : ;1838-41-10;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: METHSPIKE

Dil Factor: 1.00000

Integrator: FalconCompound 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	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.981	2.941	0.040	6116		
2 FORMALDEHYDE	3.741	3.694	0.047	1156614	10.5652	10.6

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-41-10	Client Smp ID: CCV
Level: MED	Operator: LZ
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.6	105.65	90-110

Data File: /chem/hp1cf.i/07Dec2010.b/f1207049.d

Page 1

Date : 08-DEC-2010 02:35

Client ID: CCV

Instrument: hp1cf.i

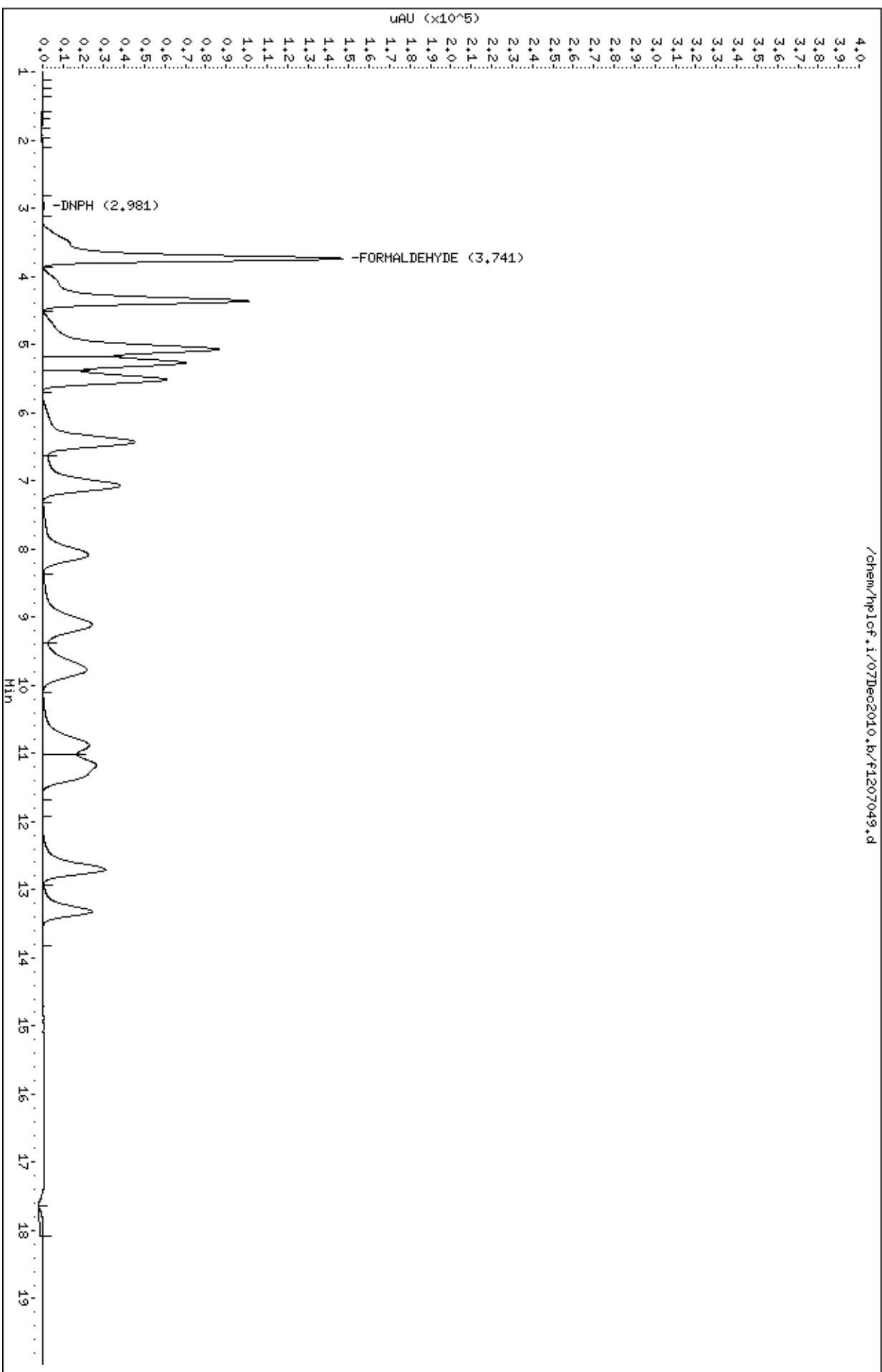
Sample Info: f1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

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/07Dec2010.b/f1207050.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 08-DEC-2010 02:56

Operator : LZInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.933	2.941	-0.008	1378		
2 FORMALDEHYDE	Compound Not Detected.					

Data File: /chem/hplcf.i/07Dec2010.b/f1207050.d

Page 1

Date : 08-DEC-2010 02:56

Client ID: LAB BLANK

Instrument: hplcf.i

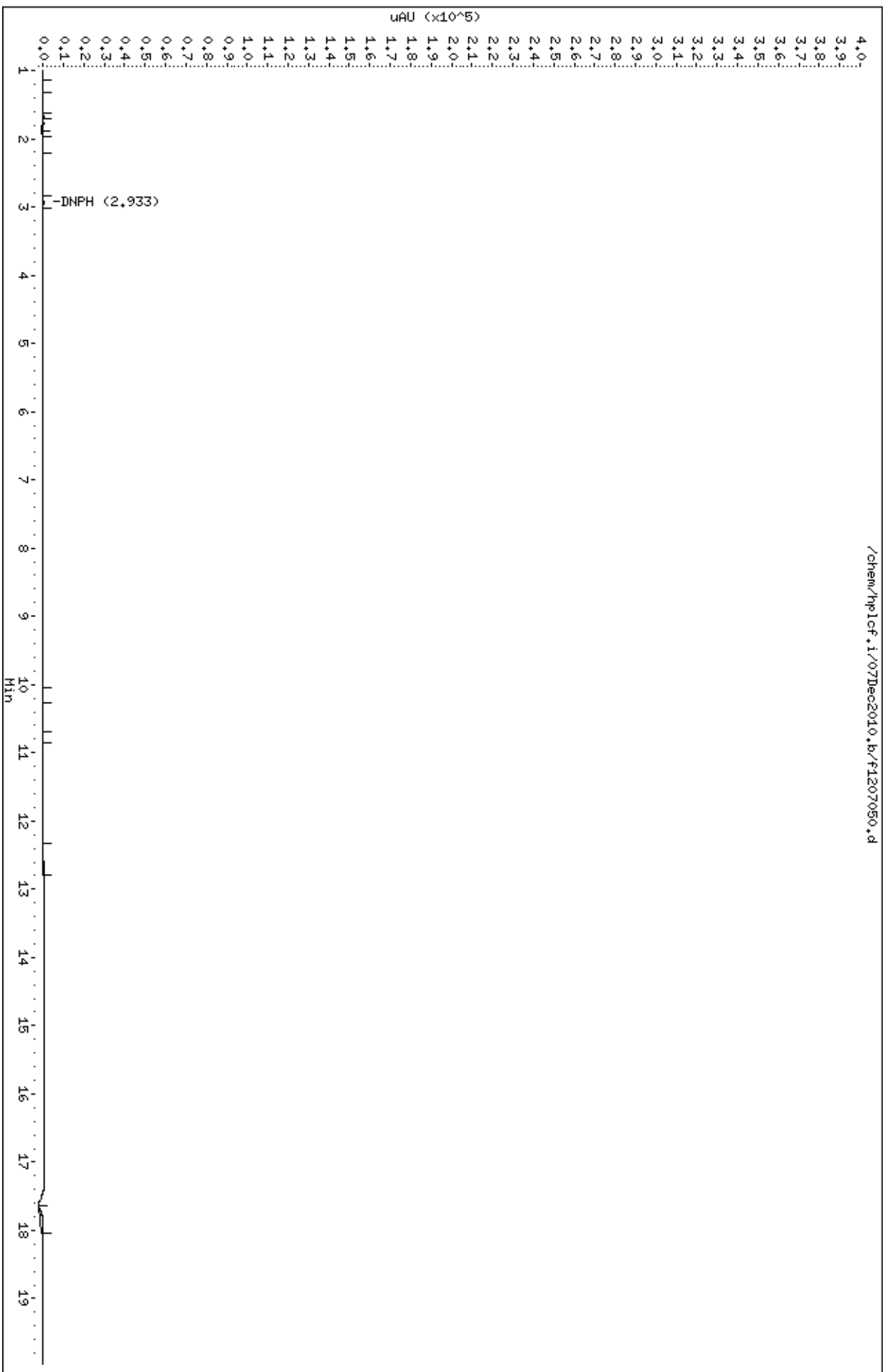
Sample Info: JCCB;LAB BLANK

Purge Volume: 5.0

Operator: LZ

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: 07Dec2010
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ESTD
Level: MED
Operator: LZ

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
119-26-6-----	DNPH	0.00	
50-00-0-----	FORMALDEHYDE	10.6	
=====		=====	=====

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207062.d

Lab Smp Id: 1838-41-10Client Smp ID: CCV

Inj Date : 08-DEC-2010 07:07

Operator : LZInst ID: hplcf.i

Smp Info : ;1838-41-10;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: METHSPIKE

Dil Factor: 1.00000

Integrator: FalconCompound 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	5.00000	Sample Final Volume (mL)
Vo	5.00000	Curve based Volume (mL)

Cpnd VariableLocal Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.974	2.941	0.033	5918		
2 FORMALDEHYDE	3.741	3.694	0.047	1158636	10.5836	10.6

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-41-10	Client Smp ID: CCV
Level: MED	Operator: LZ
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	10.0	10.6	105.84	90-110

Data File: /chem/hp1cf.i/07Dec2010.b/f1207062.d

Page 1

Date : 08-DEC-2010 07:07

Client ID: CCV

Instrument: hp1cf.i

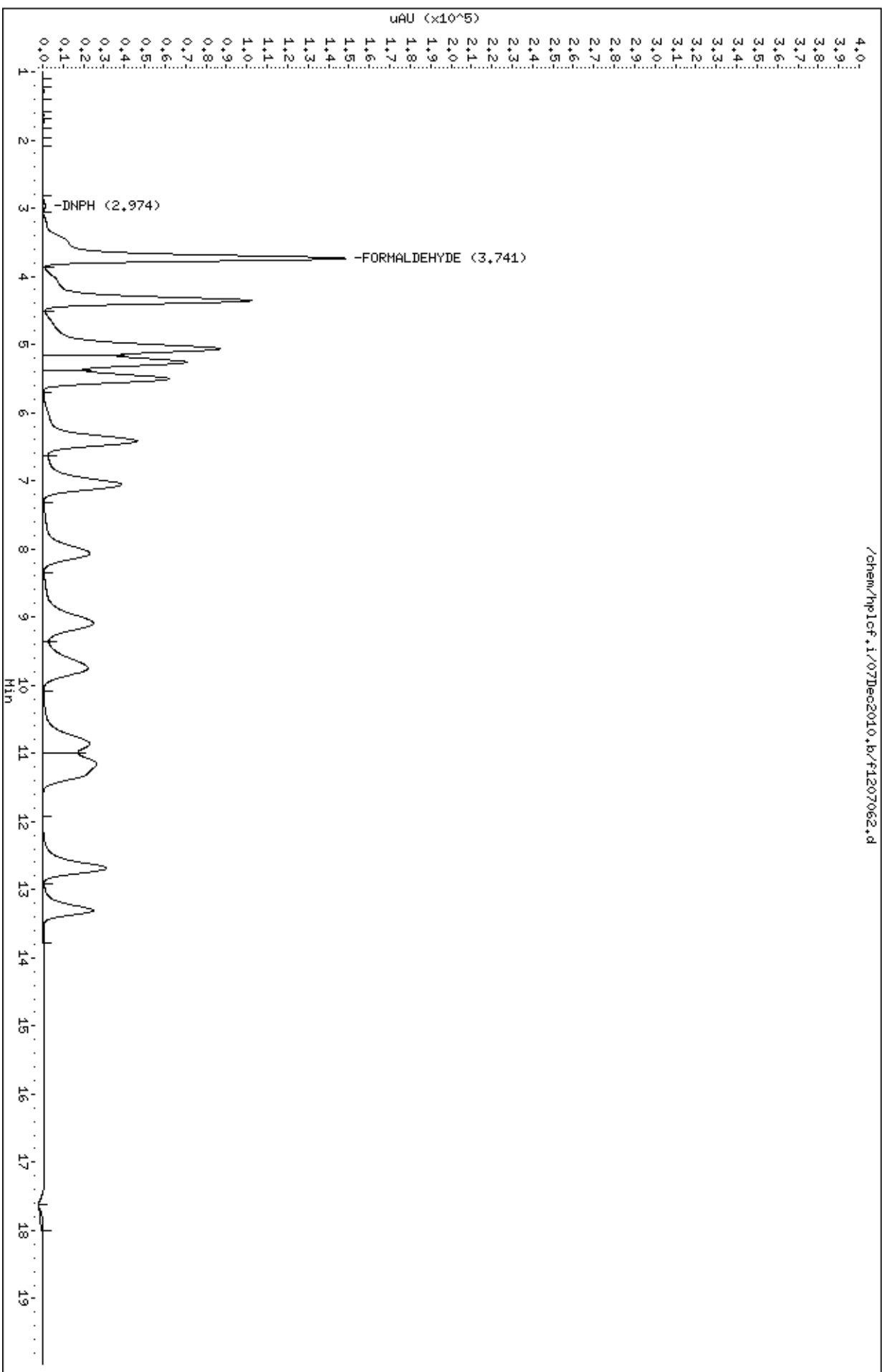
Sample Info: f1838-41-10;CCV

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Client Sample ID: LCS

Lab ID#: 1012041A-17A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207025
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/7/10 06:14 PM
Date of Extraction: 12/6/10

Compound	%Recovery
Formaldehyde	106

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1012041A
Level: MED
Data Type: LC DATA
SpikeList File: Form15T011.spk
Sublist File: form.sub
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m
Misc Info:

Client SDG: 07Dec2010
Fraction: OTHER
Client Smp ID: LCS
Operator: LZ
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	15.9	105.78	85-115

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207025.d

Lab Smp Id: 1012041AClient Smp ID: LCS

Inj Date : 07-DEC-2010 18:14

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A;LCS

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	2.946	2.941	0.005	35209331		
2 FORMALDEHYDE	3.746	3.694	0.052	4342754	39.6692	15.9

Data File: /chem/hp1cf.i/07Dec2010.b/f1207025.d

Page 1

Date : 07-DEC-2010 18:14

Client ID: LCS

Instrument: hp1cf.i

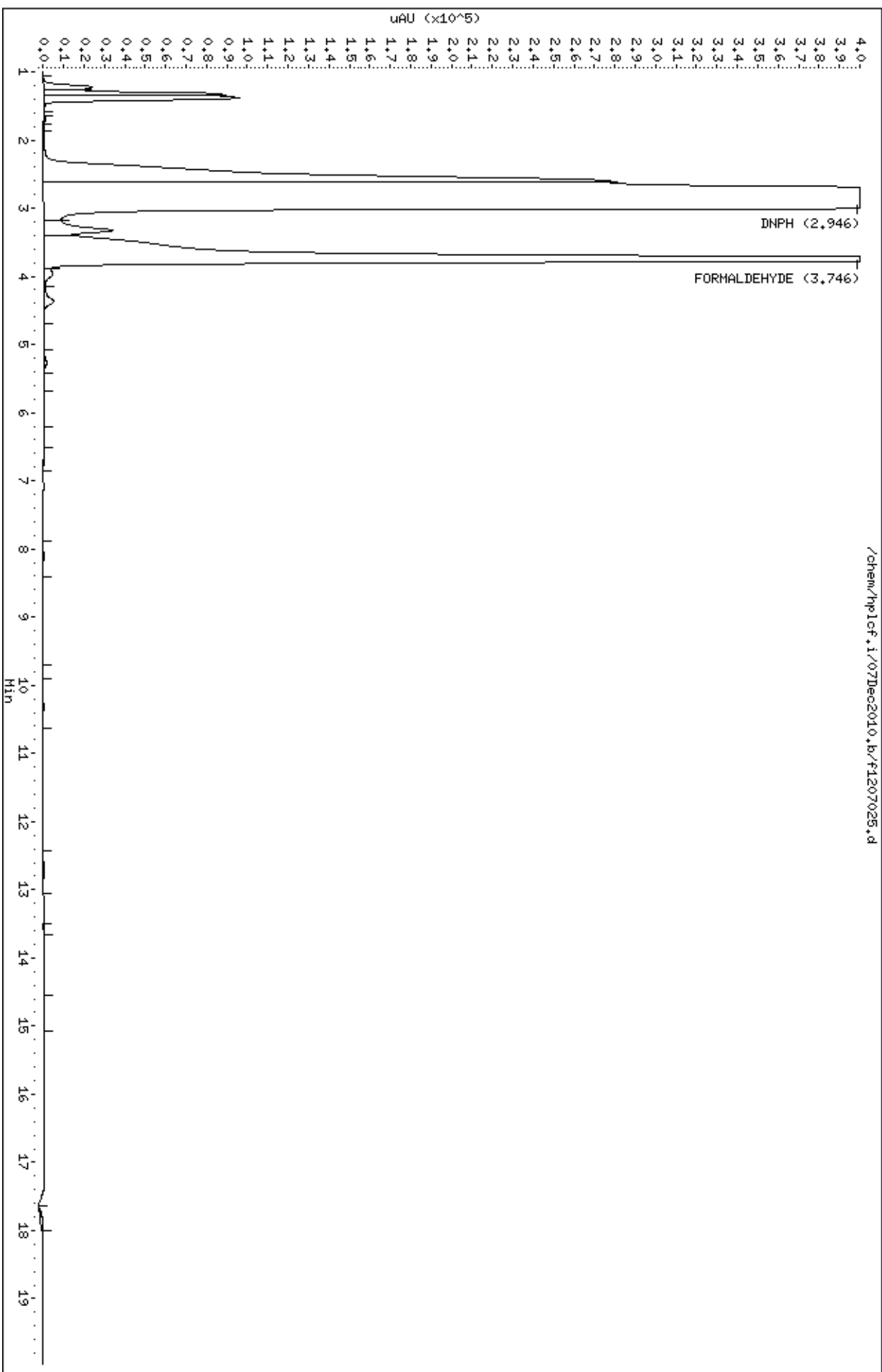
Sample Info: f1012044a;lcs

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Client Sample ID: LCSD

Lab ID#: 1012041A-17AA

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1207026
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/7/10 06:35 PM
Date of Extraction: 12/6/10

Compound	%Recovery
Formaldehyde	105

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 07Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1012041A	Client Smp ID: LCSD
Level: MED	Operator: LZ
Data Type: LC DATA	SampleType: LCSD
SpikeList File: Form15T011.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/07Dec2010.b/F10D0914.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	15.8	105.07	85-115

Air Toxics Ltd.

Aldehydes/Ketones To-11,TO-5,CARB430,0011, Radiello 165

Data file : /chem/hplcf.i/07Dec2010.b/f1207026.d

Lab Smp Id: 1012041AClient Smp ID: LCSD

Inj Date : 07-DEC-2010 18:35

Operator : LZInst ID: hplcf.i

Smp Info : ;1012041A;LCSD

Misc Info :

Comment :

Method : /chem/hplcf.i/07Dec2010.b/F10D0914.m

Meth Date : 08-Dec-2010 11:37 lzhangQuant Type: ESTD

Cal Date : 14-SEP-2010 18:30Cal File: f0914014.d

Als bottle: 1QC Sample: LCSD

Dil Factor: 1.00000

Integrator: FalconCompound 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 VariableLocal Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)	
=====	==	=====	=====	=====	=====	=====	
1 DNPH	2.933	2.941	-0.008	36018835			
2 FORMALDEHYDE	3.747	3.694	0.053	4313449	39.4015	15.8	

Data File: /chem/hplcf.i/07Dec2010.b/f1207026.d

Page 1

Date : 07-DEC-2010 18:35

Client ID: LCSD

Instrument: hplcf.i

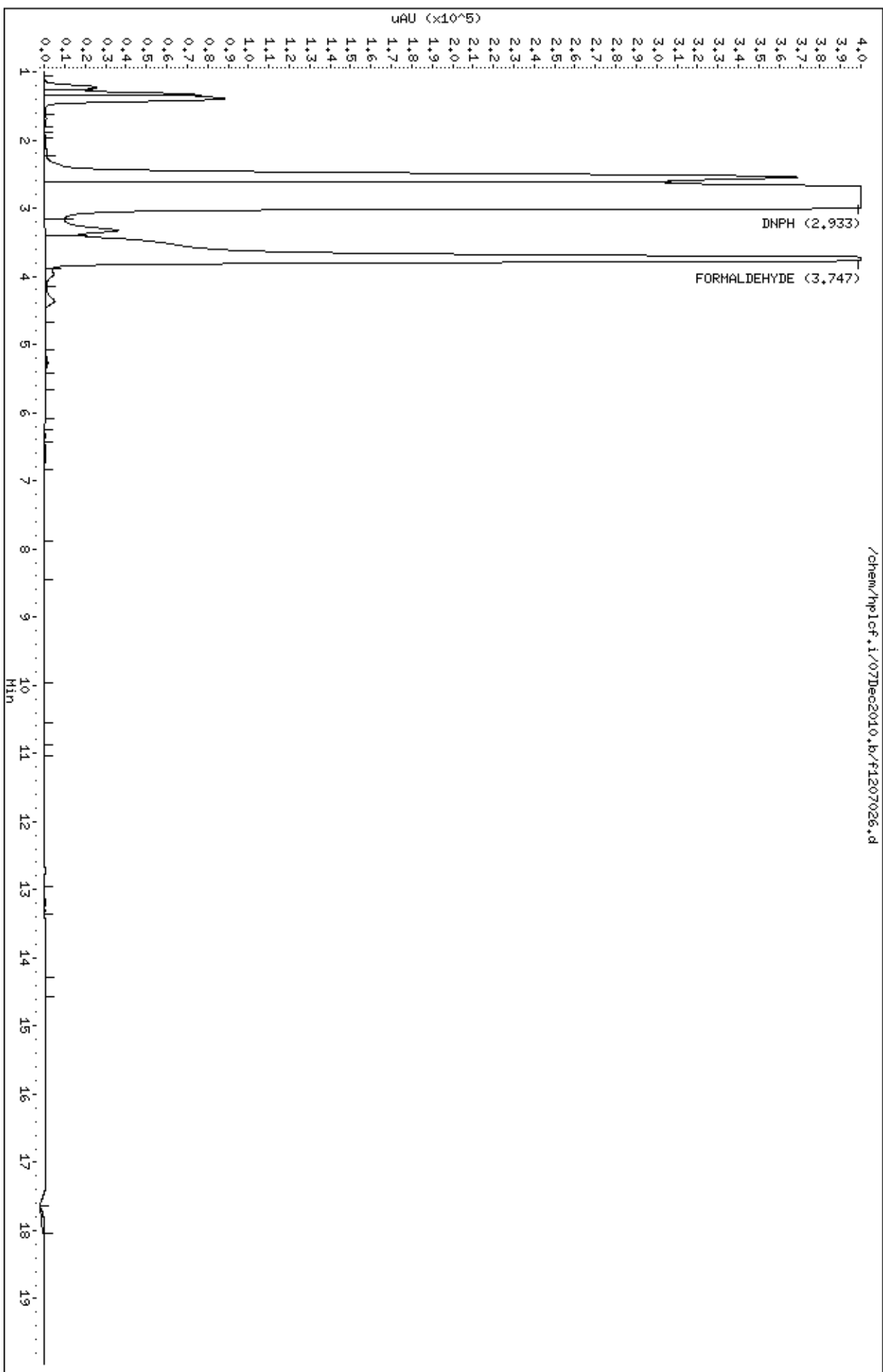
Sample Info: f1012044a;LCSD

Purge Volume: 5.0

Operator: LZ

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



TO-11 Extraction Logbook

@Air Toxics Ltd.

Log Book #: 2010

ATL Work Order # 1012041A

Final Solvent: ACN

Solvent Lot #: 6B251

Date Extracted 12/6/10

Spike I.D.: 1476-1963-500mg

Spiked By: fm

Spike Witness: mjs

ATL Fraction	Clients I.D. #	Cartridge type & size	Final Volume (ml)	Spike Amount (ul)	Comments
1012041A -01A	116747	Rad 165	2	NA	
-02A	48				
-03A	49				
-04A	50				
-05A	51				
-06A	63				
-07A	64				
-08A	65				
-09A	66				
-10A	67				
-11A	79				
-12A	80				
-13A	81				
-14A	82				
-15A	83				
-BLK	NA	Rad 165			
-LCS		Lot # 10204			
		10048		30	

Comments:

Method: T0-11 / Radwell 165Pressure: 101 bar

U s e	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f1207004	1838-41-10 CCV	1.00	W	12/7/10	1114	W	
✓	5	CCB	1.00	I	I	1135	I	
X	6	NA						not injected.
X	7	1011653/1012012-lab B/K	1.00	W	12/7/10	1158	W	
X	8	-LOS				1219		old from previous
X	9	-LCSD				1240		Re-align.
X	10	1011653 -04A				1300		
X	11	-01A				1321	CR	
X	12	-02A				1342		
X	13	1011653/1012012 -LCS				1403		Re-align.
X	14	1011653 -03A				1424		
X	15	1012012 -01A				1445		
X	16	-02A				1506		
X	17	-03A				1527		
X	18	Aer. Wash				1548		
X	19	1838-41-10 CCV				1608		Reagent bottle
✓	20	CCB				1629		
✓	21	1838-41-10 CCV				1650		Formaldehyde only propagated out
✓	22	CCB				1711		
✓	23	1012041A-lab B/K				1732		
✓	24	B-lab B/K				1753		
✓	25	A-LCS				1814		
✓	26	A-LCSD				1835		
✓	27	B-LCS				1856		
✓	28	B-LCSD				1916		
✓	29	A-04A				1937		
✓	30	A-05A				1958		
✓	31	A-09A				2019		

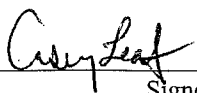
Calculation Check:

File ID: f1207015.dCompound: FormaldehydeInitials: CR

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \left(\frac{1275713}{109474} \right) \times (1.00) = 11.6$

Reported Result:

11.6



Signed

12/8/10

Date

Method: T0-11 / Radiret 6165Pressure: 100 bar

Use	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	1207032	1012041A-10A	1.00	W	12/7/10	2010	W	
✓	33	A-14A	1			2101	CM	
✓	34	A-15A				2122		
✓	35	CCB-AcN				2143		
✓	36	1838-41-10 CCV				2204		
✓	37	CCB				2224		
✓	38	1012041B-19A				2245		
✓	39	-20A				2300		
✓	40	-24A				2327		
✓	41	-25A				2348		
✓	42	-29A			12/8/10	0009		
✓	43	-30A				0030		
✓	44	1012041A-01A	10.0			0051		
✓	45	-02A				0112		
✓	46	-03A				0133		
✓	47	-06A				0153		
✓	48	AcN Wash-07A	1.00			0214		
✓	49	1838-41-10 CCV-08A	1.00	W 12/7/10		0235		
✓	50	CCB				0256		
✓	51	1012041A-07A	10.0	W 12/7/10		0317		
✓	52	-08A	10.0			0338		
✓	53	-11A				0359		
✓	54	-12A				0420		
✓	55	-13A				0441		
✓	56	1012041B-16A				0501		
✓	57	-17A				0522		
✓	58	-18A				0543		
✓	59	-21A				0604		

Calculation Check:

File ID: _____ Compound: _____ Initials: _____

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} =$ Reported Result: *Caryleaf*

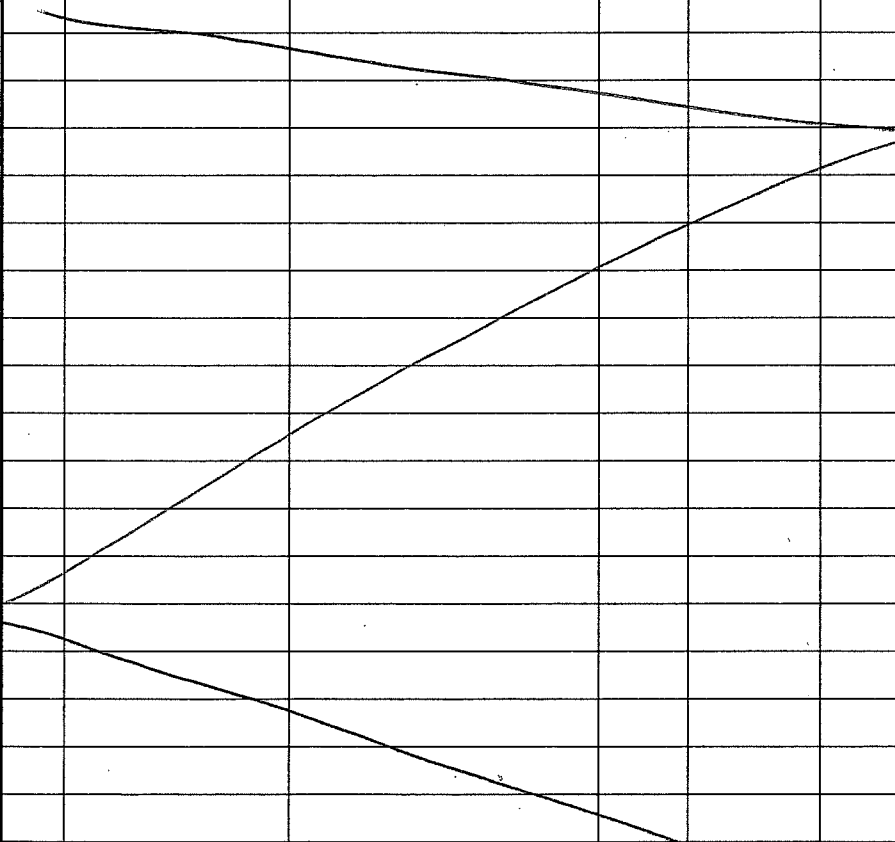
Signed

12/8/10

Date

Cary 12/8/10

Pressure: 1.00 bar



Calculation Check:
 File ID: _____ Compound: _____
 Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \frac{(\quad)}{(\quad)} \times (\quad)$

Reported Result:

12/8/10
Date

Shipping/ Receiving Documents

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

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

**Environmental
Health &
Engineering, Inc.**

CHAIN OF CUSTODY FORM

DATE: 1 DEC 10

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

1012041A

TO: AR TOXICS

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

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

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

For EH & E Data Coordinator - URGENT DATA ☐

01A
02A
03A
04A
05A
06A
07A
08A
09A
10A
11A
12A
13A
14A
15A

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER: Time/Date/Vol.
116747	AIR/PASSIVE	FORMALDEHYDE ANALYSIS 11/5/10-11/29/10	14D 7H 45M 13D 23H 10M
116748			
116749			
116750			
116751			
116763		11/5/10-11/29/10	14D 10M
116764			
116765			
116766			
116767			
116779		11/5/10-11/29/10	13D 23H 10M 35M
116780			
116781			
116782			
116783			

Special instructions:

- ☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____
☐ Fax results 781-247-4305
☐ RETURN SAMPLES ☒ Electronic transfer - datacoordinator@ehinc.com
☒ Additional report recipient datacoordinator@ehinc.com

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

Relinquished by: _____ of Environmental Health & Engineering, Inc. Date: 12/1/10
Received by: Brian Whitaker of (company name) ATL Date: 12/2/10 915
Relinquished by: _____ of (company name) Fedex Date: _____
Received by: _____ of (company name) 302 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 2

SAMPLE RECEIPT SUMMARY

WORKORDER 1012041A

Client

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

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 12/16/10

Date Completed: 12/15/10

Date Received: 12/2/10

PO#: 17131

Project#: 17131

Total \$: \$ 1,425.00

Sales Rep: TL

Logged By: AW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	116747	Modified TO-11A	11/29/2010	\$90.00
02A	116748	Modified TO-11A	11/29/2010	\$90.00
03A	116749	Modified TO-11A	11/29/2010	\$90.00
04A	116750	Modified TO-11A	11/29/2010	\$90.00
05A	116751	Modified TO-11A	NA	\$90.00
06A	116763	Modified TO-11A	11/29/2010	\$90.00
07A	116764	Modified TO-11A	11/29/2010	\$90.00
08A	116765	Modified TO-11A	11/29/2010	\$90.00
09A	116766	Modified TO-11A	11/29/2010	\$90.00
10A	116767	Modified TO-11A	NA	\$90.00
11A	116779	Modified TO-11A	11/29/2010	\$90.00
12A	116780	Modified TO-11A	11/29/2010	\$90.00
13A	116781	Modified TO-11A	11/29/2010	\$90.00
14A	116782	Modified TO-11A	11/29/2010	\$90.00
15A	116783	Modified TO-11A	NA	\$90.00
16A	Lab Blank	Modified TO-11A	NA	\$0.00
17A	LCS	Modified TO-11A	NA	\$0.00
17AA	LCSD	Modified TO-11A	NA	\$0.00

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

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

Analysis Code: HPLC

TERMS:

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

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

SAMPLE RECEIPT SUMMARY Continued

Client

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

Phone

800-825-5343

Fax

781-247-4305

Date Promised:

Date Completed: 12/15/10

Date Received: 12/2/10

PO#: 17131

Project#: 17131

Total \$: \$ 1,425.00

Logged By: AW

Sales Rep:

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
Misc. Charges	CVP (15) @ \$5.00 each.			\$75.00

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

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

Analysis Code: HPLC

TERMS:

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

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

Other Records

Compound List

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

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

@ Air Toxics Ltd	Title: Data Review Checklist		Release Date: 07/28/10
	Form #: F1.27	Revision #: 2	Revision Date: 07/27/10
			Page #: 1 of 2

DATA REVIEW CHECKLIST

Work Order #:

1012041A

- | A ₁ | A ₂ | W | T | R | Q | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | The final report has the correct reporting list, special units, and header info. |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Non-Standard sublist printed/verified, LOQ and LOD verified |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Sample Discrepancy Report (SDR) is completed |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Corrective Action issued - # |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Unusual circumstances have been documented in the notes section below |

LUMEN validation report present and initialed

CIRCLE (YES (NO))

- | | | | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|---|
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Lab Blank, CCV, LCS and DUP met QC criteria |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Hold time is met for all samples |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Appropriate data qualifier flags are applied |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Manual integrations for samples and QC are properly documented |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Samples analyzed within the project or method specific clock |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Retention times have been verified |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Appropriate ICAL(s) included, %RSD Recalculation |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | At least one result per sample is verified against the target quant sheets/raw data |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s)) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Correct amount of sample analyzed (i.e. sample not over-diluted) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | TICs resemble reference spectra |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | TICs between duplicate samples are consistent |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Data for multiple analyses of sample(s) has been evaluated for comparability of results |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Special units for all samples in the final report are correctly calculated |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Manually entered results checked (i.e. TPH/NMOC) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Chain of Custody scanned correctly |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Verify sample id's vs. chain of custody |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Date MDL(s) performed per instrument(s) 10/19/10 |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Samples pressurized w/ appropriate gas (N ₂ or He) ☒ Other (i.e. Tedlar bag, cartridge, sorbent) |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | Final pressure consistent with canister size (6L vs. 1L) RAD 165 |
| ☐ | ☐ | ☒ | ☐ | ☐ | ☐ | 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/USD 2) FB = 05A, 10A, 15A 3) 14 days, 7 hours, 45 min = 20625 min
 14 days, 10 min = 20170 min (00A-09A) 13 days, 23 hours, 35 min = 20135 min (11A-14A) for duration
 4) Client provided duration 5) Client sample more than 7 days.

T/Q:

A ₁ /A ₂	W/T	R*	Q
(Analytical Review/Date)	(Write-up/Tech Review/Date)	(Report Review/Date)	(QA Review/Date)
A ₁ :	W: Casey Leaf 12/15/10	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.

Not Applicable