

**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 #: 1012370A

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Comments:

Completed by:

Kara McKiernan

(Signature)

Kara McKiernan / Document Control

(Print Name & Title)

12/30/10

(Date)

WORK ORDER #: 1012370A

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:	12/16/2010	CONTACT:	Ausha Scott
DATE COMPLETED:	12/29/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	120267	Modified TO-11A
02A	120268	Modified TO-11A
03A	120269	Modified TO-11A
04A	120270	Modified TO-11A
05A	120271	Modified TO-11A
06A	120283	Modified TO-11A
07A	120284	Modified TO-11A
08A	120285	Modified TO-11A
09A	120286	Modified TO-11A
10A	120287	Modified TO-11A
11A	120299	Modified TO-11A
12A	120300	Modified TO-11A
13A	120301	Modified TO-11A
14A	120302	Modified TO-11A
15A	120303	Modified TO-11A
16A	Lab Blank	Modified TO-11A
17A	LCS	Modified TO-11A

Continued on next page

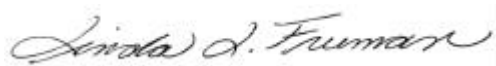
WORK ORDER #: 1012370A

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:	12/16/2010	CONTACT:	Ausha Scott
DATE COMPLETED:	12/29/2010		

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

CERTIFIED BY:



Laboratory Director

DATE: 12/29/10

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-11A
Environmental Health & Engineering, Inc.
Workorder# 1012370A

Fifteen Radiello 165 (Aldehydes) samples were received on December 16, 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
120267	1012370A-01A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120268	1012370A-02A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120269	1012370A-03A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120270	1012370A-04A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120271	1012370A-05A	NA	12/16/2010	12/20/2010	NA	12/20/2010	0	Good
120283	1012370A-06A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120284	1012370A-07A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120285	1012370A-08A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120286	1012370A-09A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120287	1012370A-10A	NA	12/16/2010	12/20/2010	NA	12/20/2010	0	Good
120299	1012370A-11A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120300	1012370A-12A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120301	1012370A-13A	12/13/2010	12/16/2010	12/20/2010	7	12/21/2010	1	Good
120302	1012370A-14A	12/13/2010	12/16/2010	12/20/2010	7	12/20/2010	0	Good
120303	1012370A-15A	NA	12/16/2010	12/20/2010	NA	12/20/2010	0	Good
Lab Blank	1012370A-16A	NA	NA	12/20/2010	NA	12/20/2010	0	Good
LCS	1012370A-17A	NA	NA	12/20/2010	NA	12/20/2010	0	Good
LCSD	1012370A-17AA	NA	NA	12/20/2010	NA	12/20/2010	0	Good

Sample Results and Raw Data

Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120267

Lab ID#: 1012370A-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	58	30

Client Sample ID: 120267

Lab ID#: 1012370A-01A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220025
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 08:42 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	58	30

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220025.d

Lab Smp Id: 1012370A-01AClient Smp ID: 10

Inj Date : 20-DEC-2010 20:42

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-01A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	3.076	2.941	0.135	210258		
2 FORMALDEHYDE	4.330	4.209	0.121	1982750	14.5845	58.3

Data File: /chem/hp1cf.i/20Dec2010.b/f1220025.d

Page 1

Date : 20-DEC-2010 20:42

Client ID: 10

Instrument: hp1cf.i

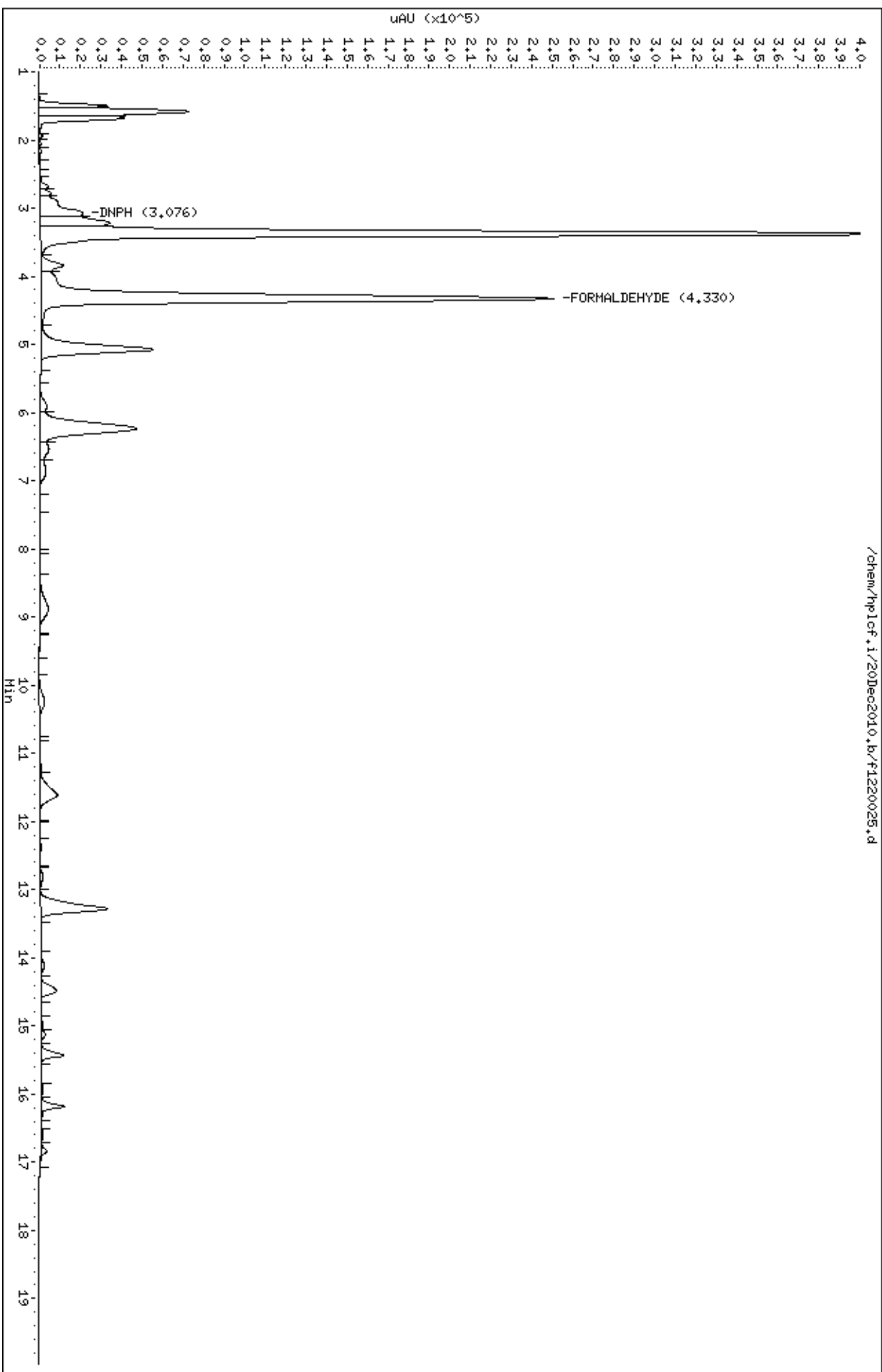
Sample Info: f1012370a-01a:10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120268

Lab ID#: 1012370A-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	55	28

Client Sample ID: 120268

Lab ID#: 1012370A-02A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220026
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 09:03 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	55	28

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220026.d

Lab Smp Id: 1012370A-02AClient Smp ID: 10

Inj Date : 20-DEC-2010 21:03

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-02A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	3.059	2.941	0.118	233950		
2 FORMALDEHYDE	4.326	4.209	0.117	1871242	13.7643	55.0

Data File: /chem/hp1cf.i/20Dec2010.b/f1220026.d

Page 1

Date : 20-DEC-2010 21:03

Client ID: 10

Instrument: hp1cf.i

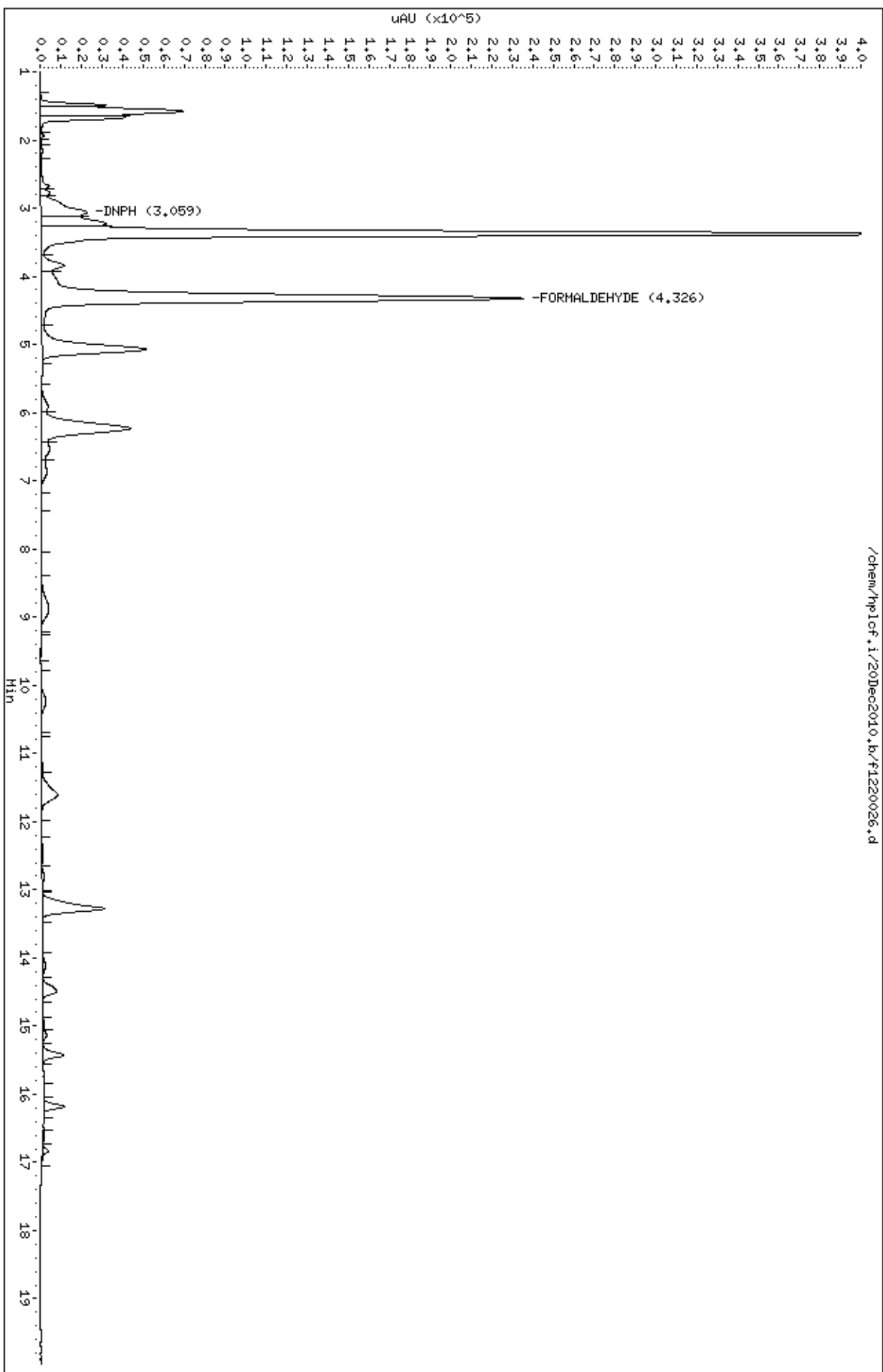
Sample Info: f1012370a-02a;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120269

Lab ID#: 1012370A-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	46	24

Client Sample ID: 120269

Lab ID#: 1012370A-03A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220027
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 09:24 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.2	46	24

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220027.d

Lab Smp Id: 1012370A-03AClient Smp ID: 10

Inj Date : 20-DEC-2010 21:24

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-03A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.327	4.209	0.118	1551616	11.4132	45.6

Data File: /chem/hp1cf.i/20Dec2010.b/f1220027.d

Page 1

Date : 20-DEC-2010 21:24

Client ID: 10

Instrument: hp1cf.i

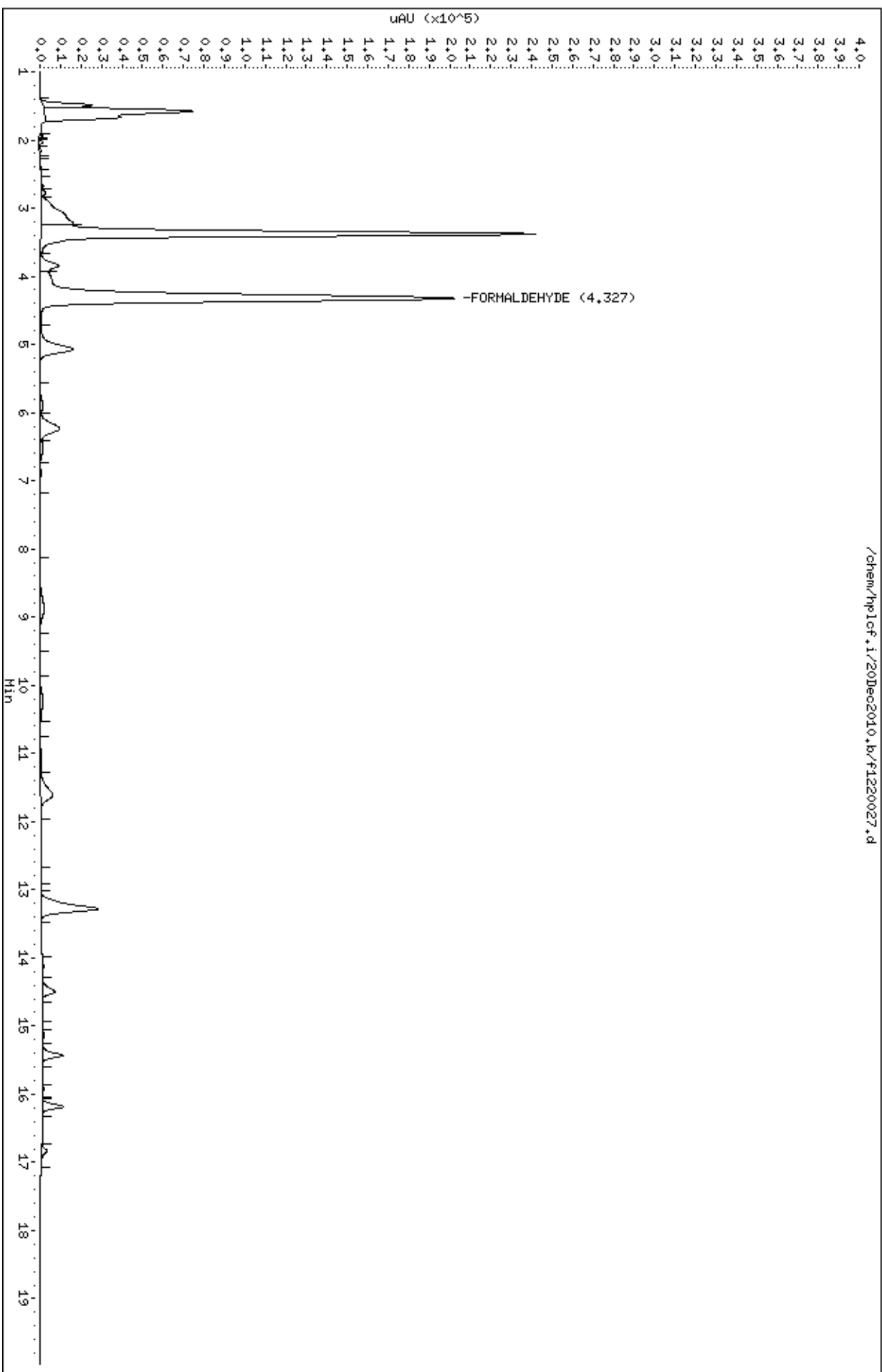
Sample Info: f1012370a-03a:10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120270

Lab ID#: 1012370A-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	3.8	1.9

Client Sample ID: 120270

Lab ID#: 1012370A-04A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220011
Dil. Factor: 1.00

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 03:49 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.52	3.8	1.9

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220011.d

Lab Smp Id: 1012370A-04A

Inj Date : 20-DEC-2010 15:49

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-04A;

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	2.868	2.941	-0.073	60181		
2 FORMALDEHYDE	4.328	4.209	0.119	1279056	9.40834	3.76

Data File: /chem/hp1cf.i/20Dec2010.b/f1220011.d

Page 1

Date : 20-DEC-2010 15:49

Client ID:

Instrument: hp1cf.i

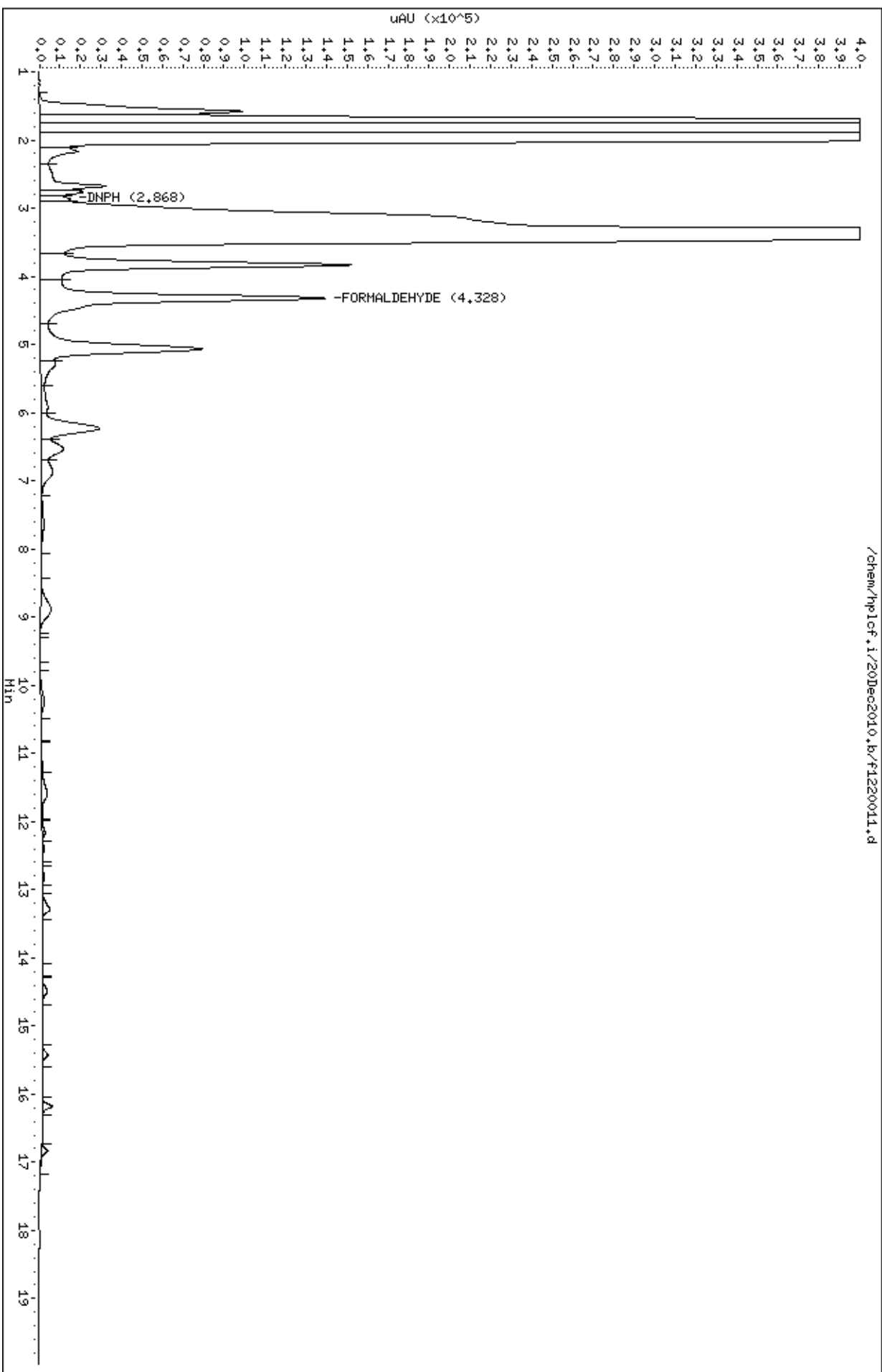
Sample Info: f1012370a-04a;

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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

Client Sample ID: 120271

Lab ID#: 1012370A-05A

No Detections Were Found.

Client Sample ID: 120271

Lab ID#: 1012370A-05A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220012

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/20/10 04:10 PM

Date of Extraction: 12/20/10

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/20Dec2010.b/f1220012.d

Lab Smp Id: 1012370A-05A

Inj Date : 20-DEC-2010 16:10

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-05A;

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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/hp1cf.i/20Dec2010.b/f1220012.d

Page 1

Date : 20-DEC-2010 16:10

Client ID:

Instrument: hp1cf.i

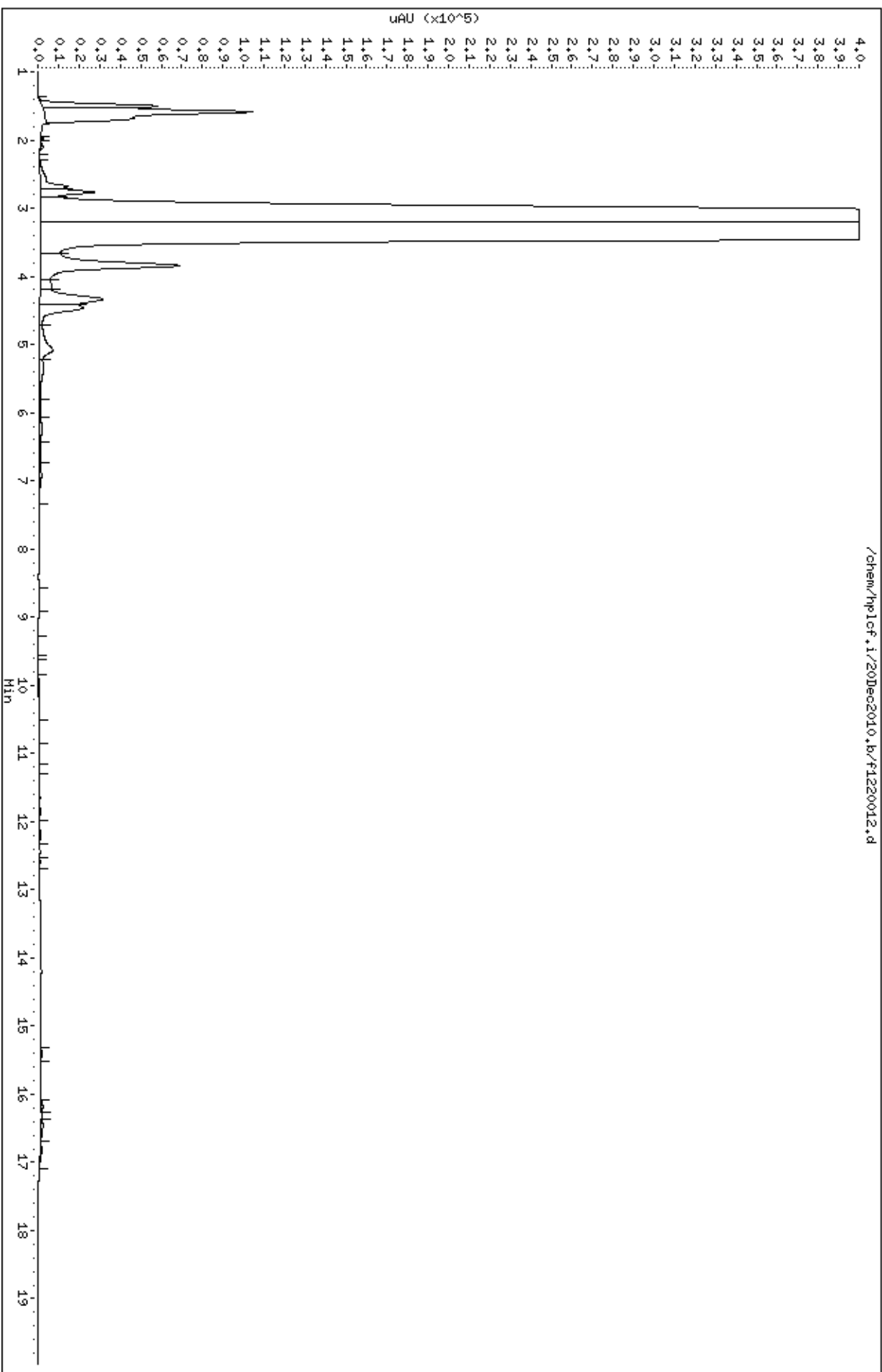
Sample Info: f10123700-0504;

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120283

Lab ID#: 1012370A-06A

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

Client Sample ID: 120283

Lab ID#: 1012370A-06A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220028
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 09:45 PM
Date of Extraction: 12/20/10

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/20Dec2010.b/f1220028.d

Lab Smp Id: 1012370A-06AClient Smp ID: 10

Inj Date : 20-DEC-2010 21:45

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-06A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.307	4.209	0.098	3110257	22.8781	91.5

Data File: /chem/hp1cf.i/20Dec2010.b/f1220028.d

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Date : 20-DEC-2010 21:45

Client ID: 10

Instrument: hp1cf.i

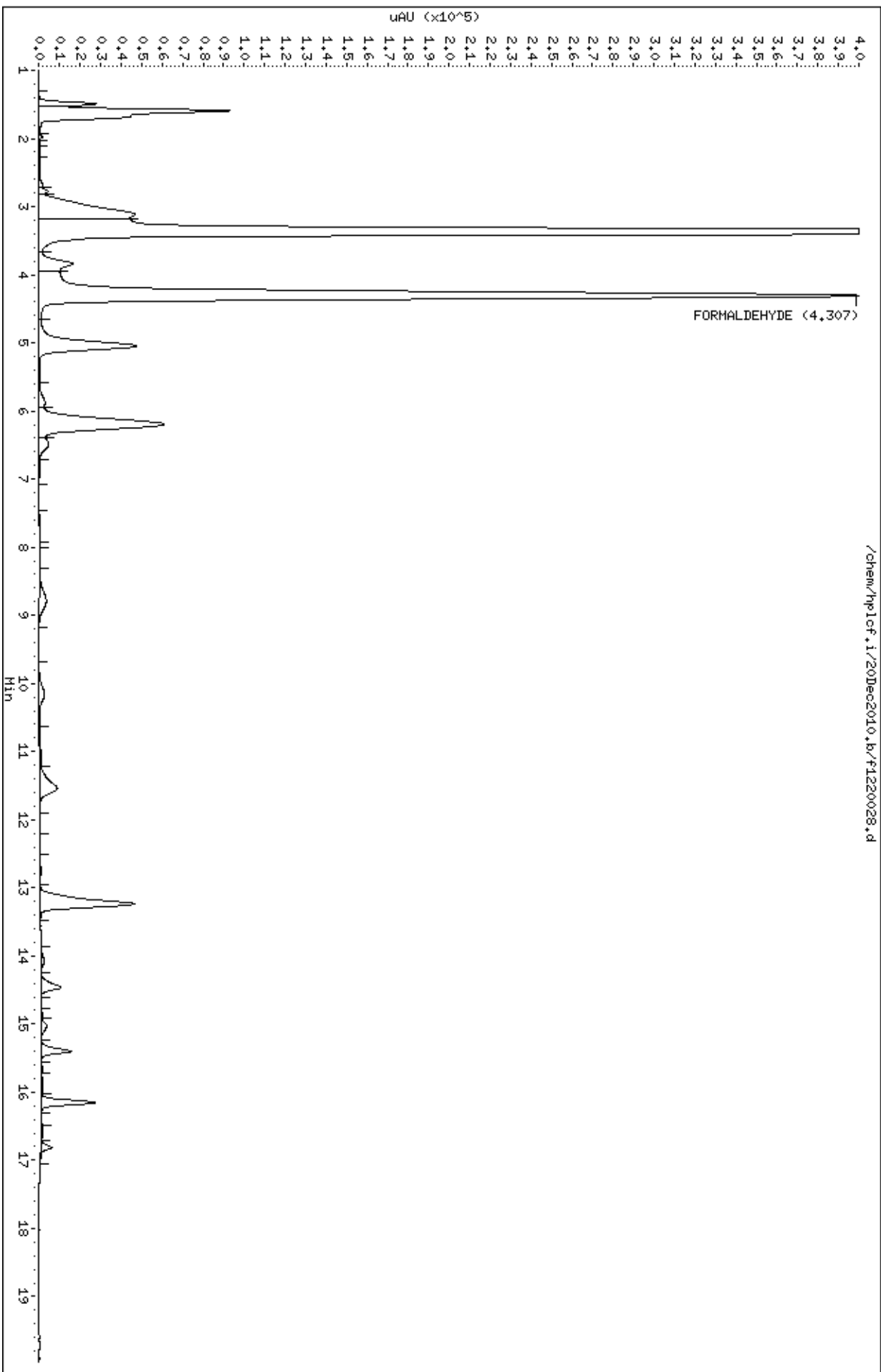
Sample Info: j1012370a-06a;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120284

Lab ID#: 1012370A-07A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	54	27

Client Sample ID: 120284

Lab ID#: 1012370A-07A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220029
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 10:05 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	54	27

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220029.d

Lab Smp Id: 1012370A-07AClient Smp ID: 10

Inj Date : 20-DEC-2010 22:05

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-07A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.315	4.209	0.106	1838472	13.5232	54.1

Data File: /chem/hp1cf.i/20Dec2010.b/f1220029.d

Page 1

Date : 20-DEC-2010 22:05

Client ID: 10

Instrument: hp1cf.i

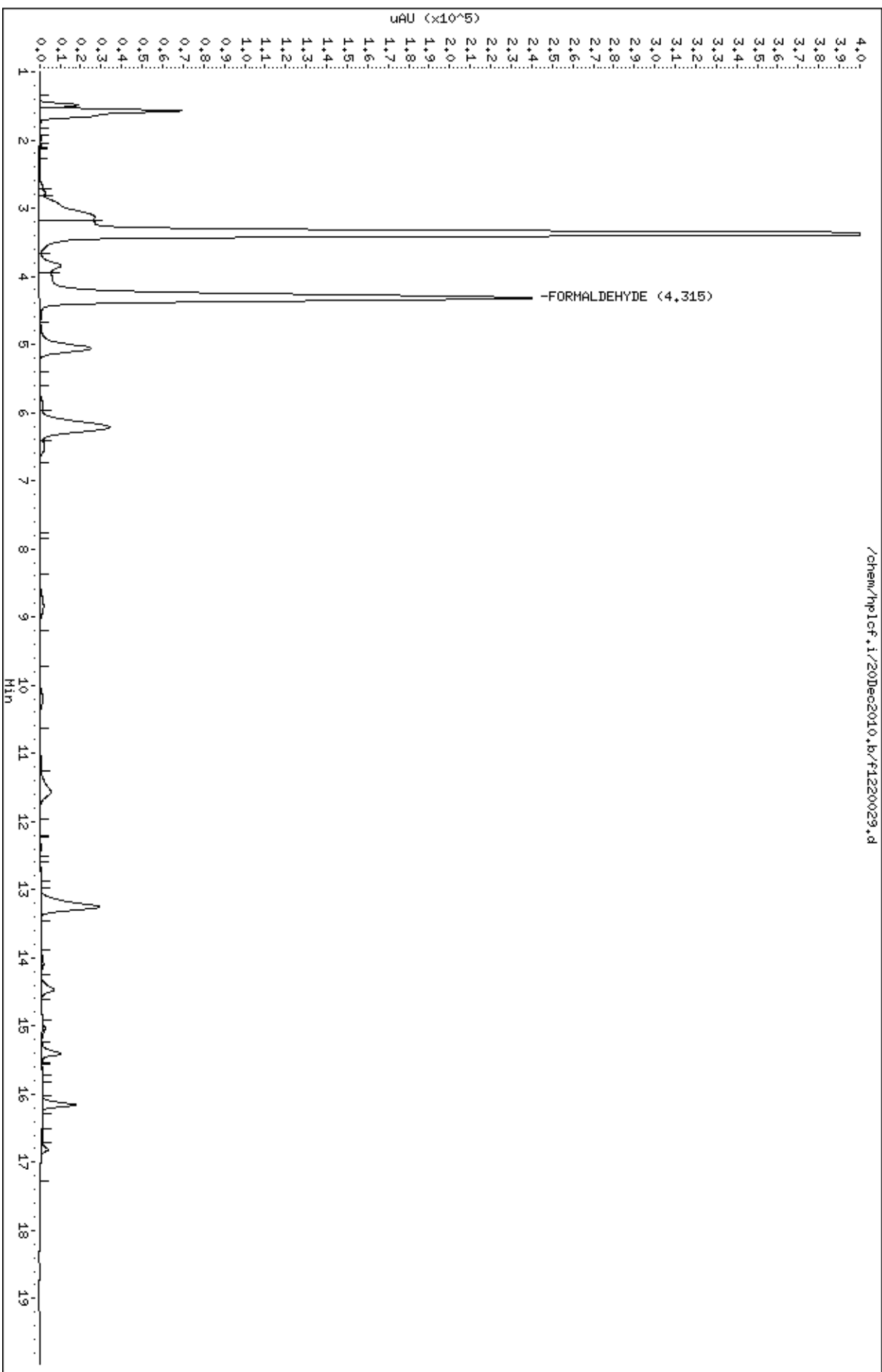
Sample Info: f1012370a-07a;10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120285

Lab ID#: 1012370A-08A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	53	26

Client Sample ID: 120285

Lab ID#: 1012370A-08A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220030
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 10:26 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	53	26

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220030.d

Lab Smp Id: 1012370A-08AClient Smp ID: 10

Inj Date : 20-DEC-2010 22:26

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-08A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.317	4.209	0.108	1787608	13.1491	52.6

Data File: /chem/hp1cf.i/20Dec2010.b/f1220030.d

Page 1

Date : 20-DEC-2010 22:26

Client ID: 10

Instrument: hp1cf.i

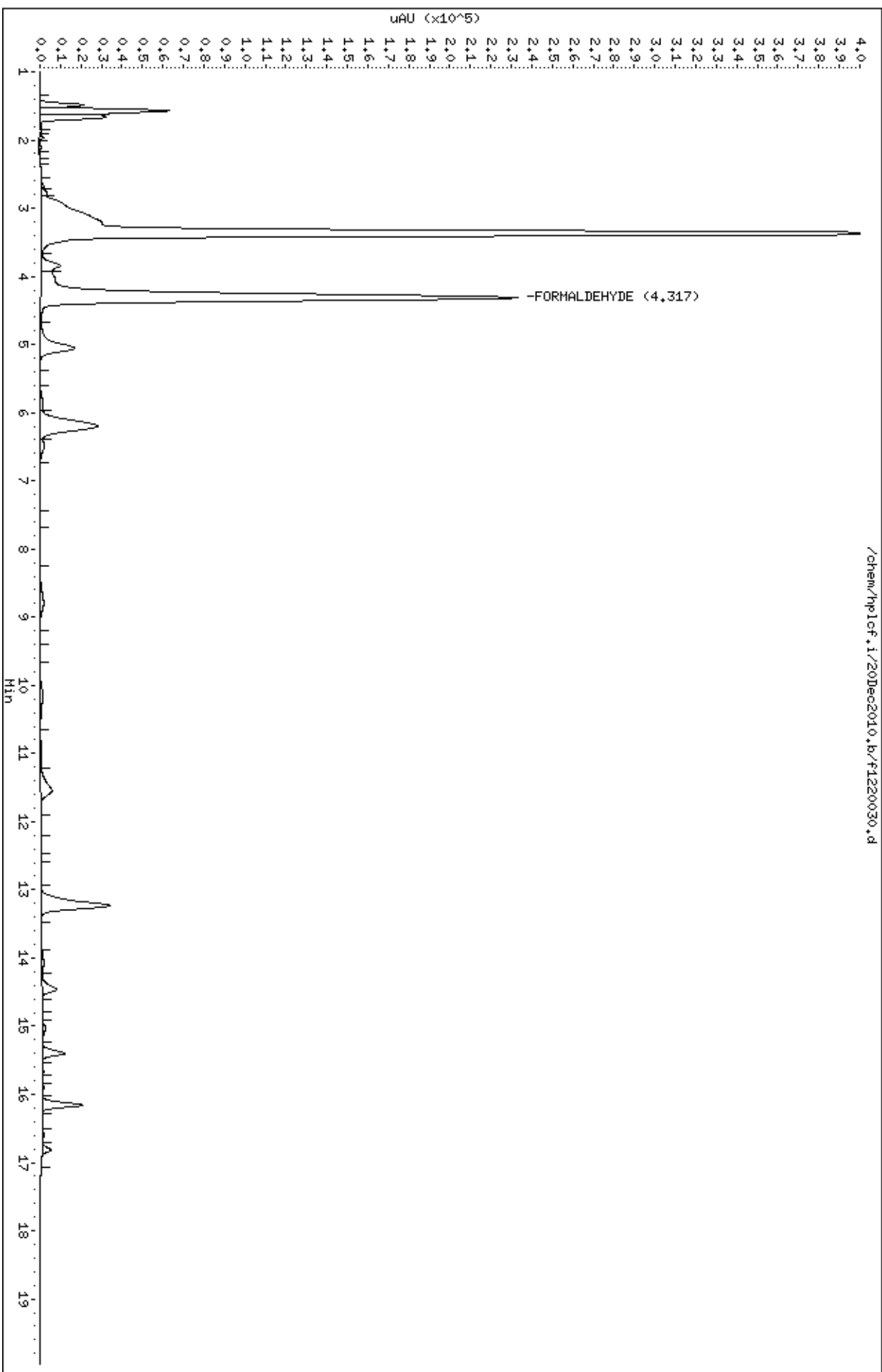
Sample Info: f1012370a-08a:10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120286

Lab ID#: 1012370A-09A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	3.3	1.7

Client Sample ID: 120286

Lab ID#: 1012370A-09A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220013
Dil. Factor: 1.00

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 04:31 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	3.3	1.7

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220013.d

Lab Smp Id: 1012370A-09A

Inj Date : 20-DEC-2010 16:31

Operator : CRL

Smp Info : ;1012370A-09A;

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleaf

Cal Date : 09-DEC-2010 04:08

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: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.333	4.209	0.124	1125006	8.27520	3.31

Data File: /chem/hp1cf.i/20Dec2010.b/f1220013.d

Page 1

Date : 20-DEC-2010 16:31

Client ID:

Instrument: hp1cf.i

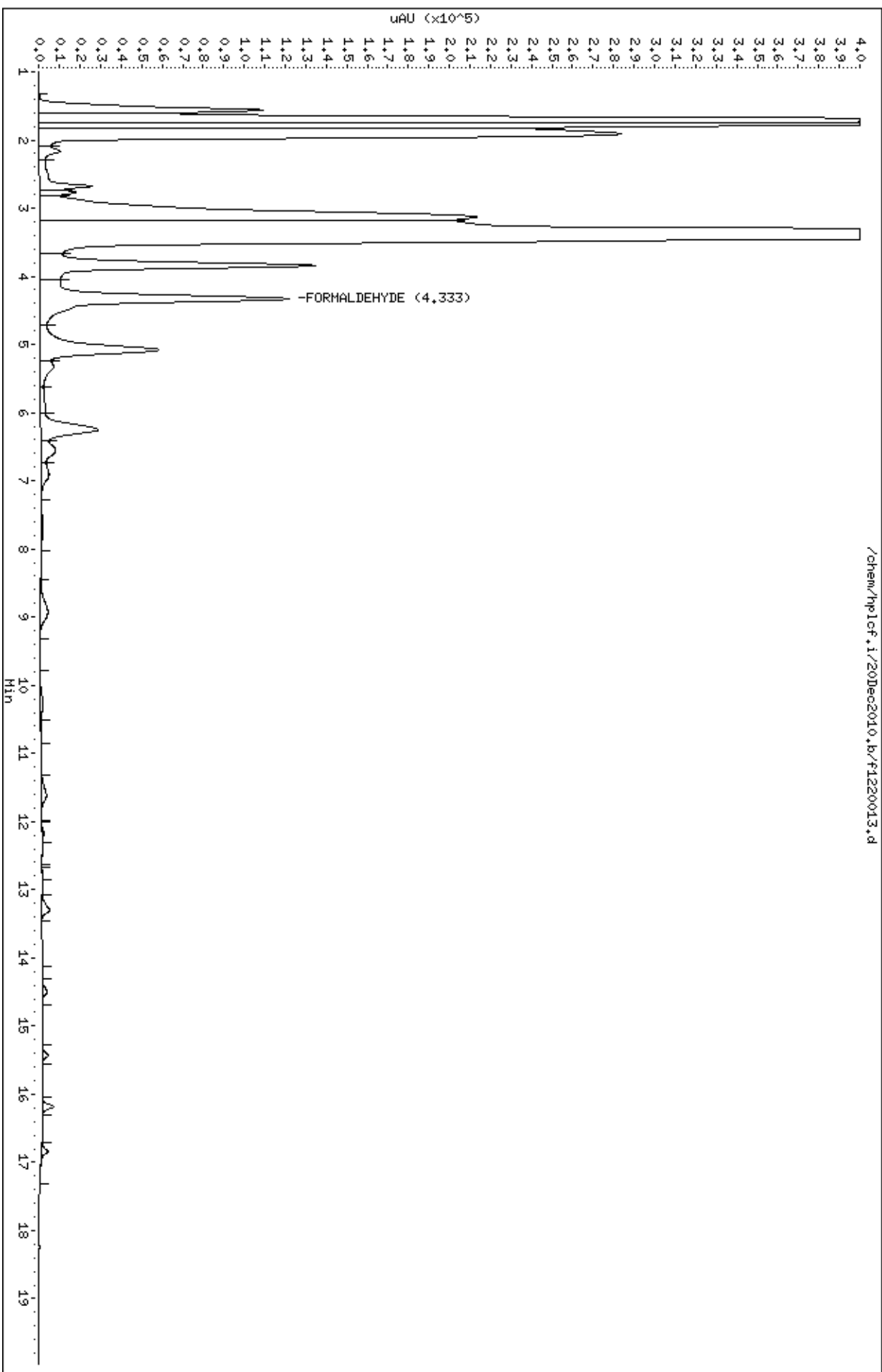
Sample Info: f10123700-090;

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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

Client Sample ID: 120287

Lab ID#: 1012370A-10A

No Detections Were Found.

Client Sample ID: 120287

Lab ID#: 1012370A-10A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220014

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/20/10 04:52 PM

Date of Extraction: 12/20/10

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/20Dec2010.b/f1220014.d

Lab Smp Id: 1012370A-10A

Inj Date : 20-DEC-2010 16:52

Operator : CRL

Smp Info : ;1012370A-10A;

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleaf

Cal Date : 09-DEC-2010 04:08

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: f1208034.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	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN	FINAL
					(ng)	(ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH				Compound Not Detected.		
2 FORMALDEHYDE				Compound Not Detected.		

Data File: /chem/hp1cf.i/20Dec2010.b/f1220014.d

Page 1

Date : 20-DEC-2010 16:52

Client ID:

Instrument: hp1cf.i

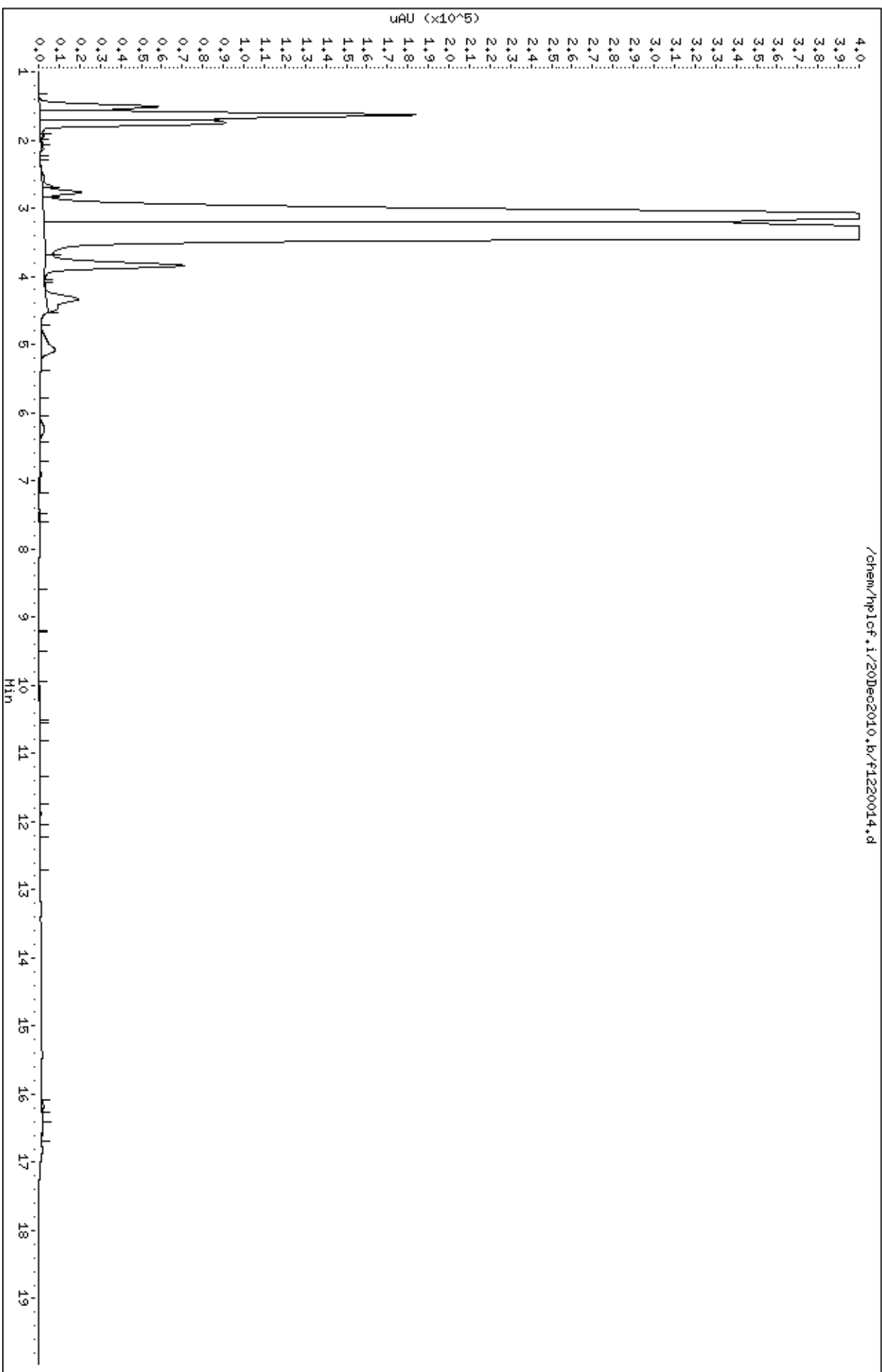
Sample Info: f10123700-100;

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120299

Lab ID#: 1012370A-11A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	69	34

Client Sample ID: 120299

Lab ID#: 1012370A-11A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220031
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 10:47 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	69	34

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220031.d

Lab Smp Id: 1012370A-11AClient Smp ID: 10

Inj Date : 20-DEC-2010 22:47

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-11A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.307	4.209	0.098	2339919	17.2117	68.8

Data File: /chem/hp1cf.i/20Dec2010.b/f1220031.d

Page 1

Date : 20-DEC-2010 22:47

Client ID: 10

Instrument: hp1cf.i

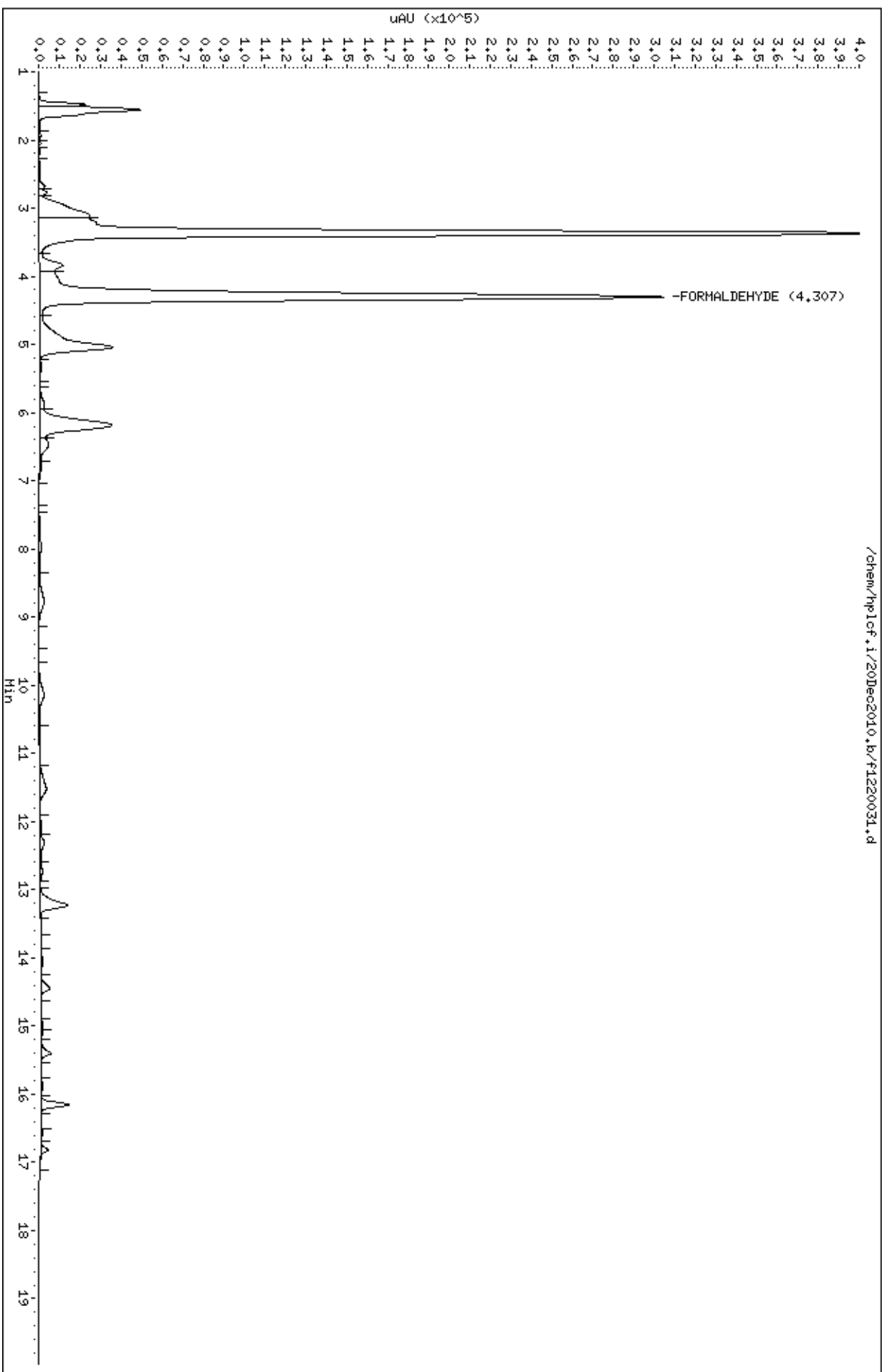
Sample Info: f1012370a-11a:10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120300

Lab ID#: 1012370A-12A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	67	33

Client Sample ID: 120300

Lab ID#: 1012370A-12A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220032
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/20/10 11:08 PM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	67	33

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220032.d

Lab Smp Id: 1012370A-12AClient Smp ID: 10

Inj Date : 20-DEC-2010 23:08

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-12A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.305	4.209	0.096	2266837	16.6742	66.7

Data File: /chem/hp1cf.i/20Dec2010.b/f1220032.d

Page 1

Date : 20-DEC-2010 23:08

Client ID: 10

Instrument: hp1cf.i

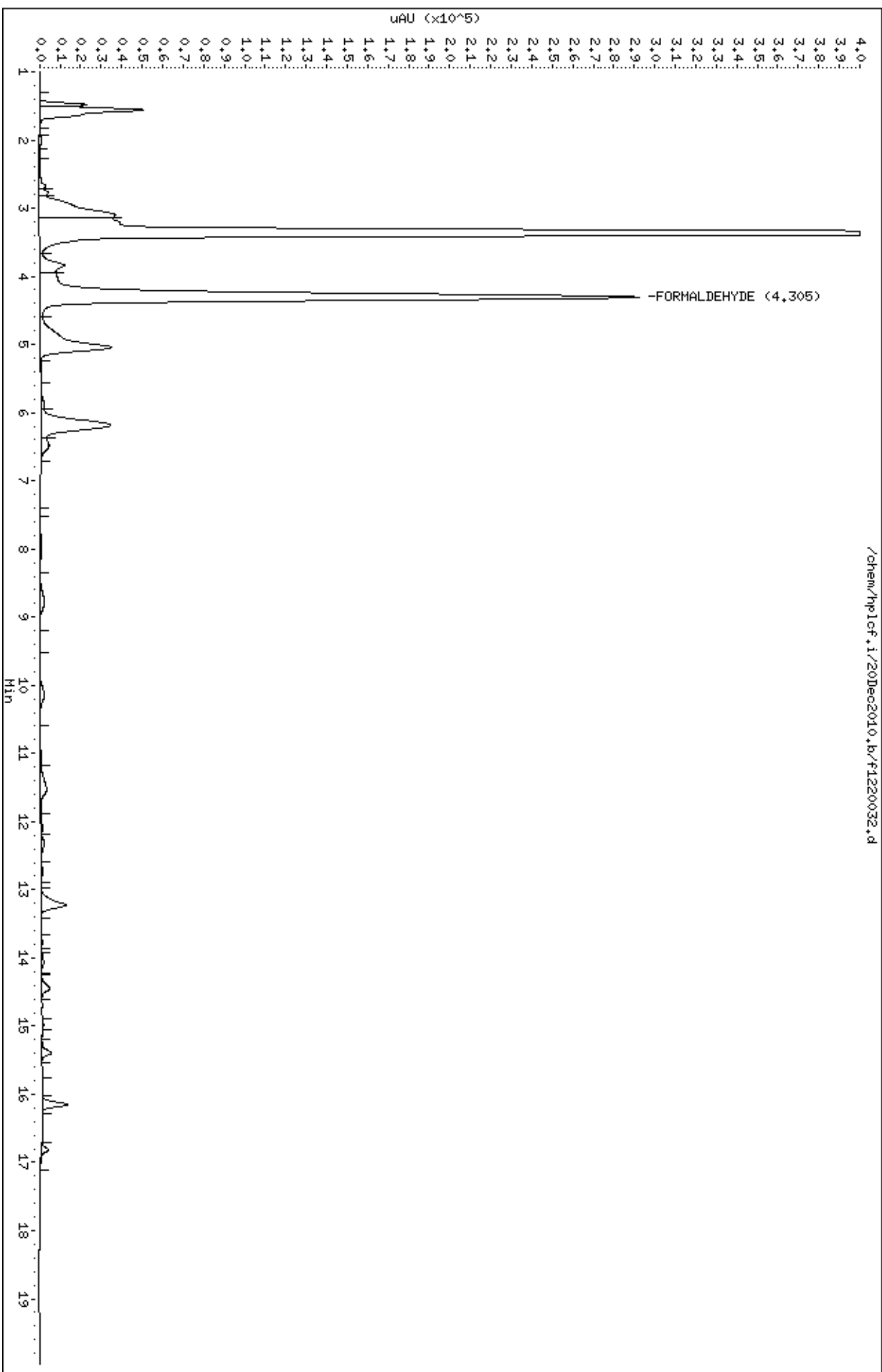
Sample Info: f1012370a-12a:10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120301

Lab ID#: 1012370A-13A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	72	36

Client Sample ID: 120301

Lab ID#: 1012370A-13A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220035
Dil. Factor: 10.0

Date of Collection: 12/13/10
Date of Analysis: 12/21/10 12:11 AM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	10	5.0	72	36

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220035.d

Lab Smp Id: 1012370A-13AClient Smp ID: 10

Inj Date : 21-DEC-2010 00:11

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-13A;10

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	2.948	2.941	0.007	89887			
2 FORMALDEHYDE	4.308	4.209	0.099	2439613	17.9450	71.8	

Data File: /chem/hp1cf.i/20Dec2010.b/f1220035.d

Page 1

Date : 21-DEC-2010 00:11

Client ID: 10

Instrument: hp1cf.i

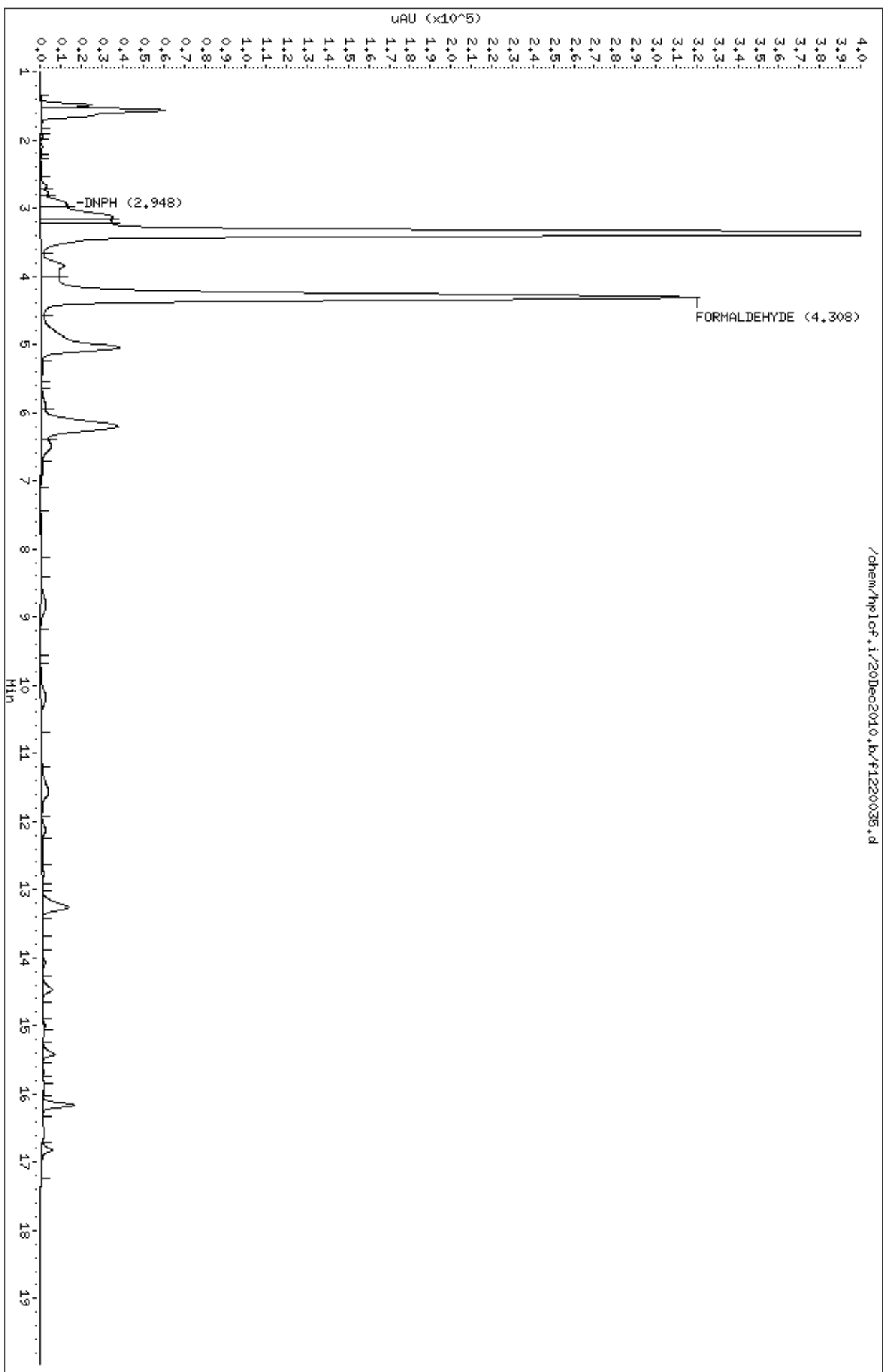
Sample Info: f1012370a-13a:10

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Summary of Detected Compounds
RADIELLO ANALYSIS BY HPLC/UV

Client Sample ID: 120302

Lab ID#: 1012370A-14A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	2.8	1.4

Client Sample ID: 120302

Lab ID#: 1012370A-14A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220015

Date of Collection: 12/13/10

Dil. Factor: 1.00

Date of Analysis: 12/20/10 05:13 PM

Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	0.50	2.8	1.4

Container Type: Radiello 165 (Aldehydes)

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220015.d

Lab Smp Id: 1012370A-14A

Inj Date : 20-DEC-2010 17:13

Operator : CRL

Smp Info : ;1012370A-14A;

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleaf

Cal Date : 09-DEC-2010 04:08

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: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.332	4.209	0.123	951810	7.00122	2.80

Data File: /chem/hp1cf.i/20Dec2010.b/f1220015.d

Page 1

Date : 20-DEC-2010 17:13

Client ID:

Instrument: hp1cf.i

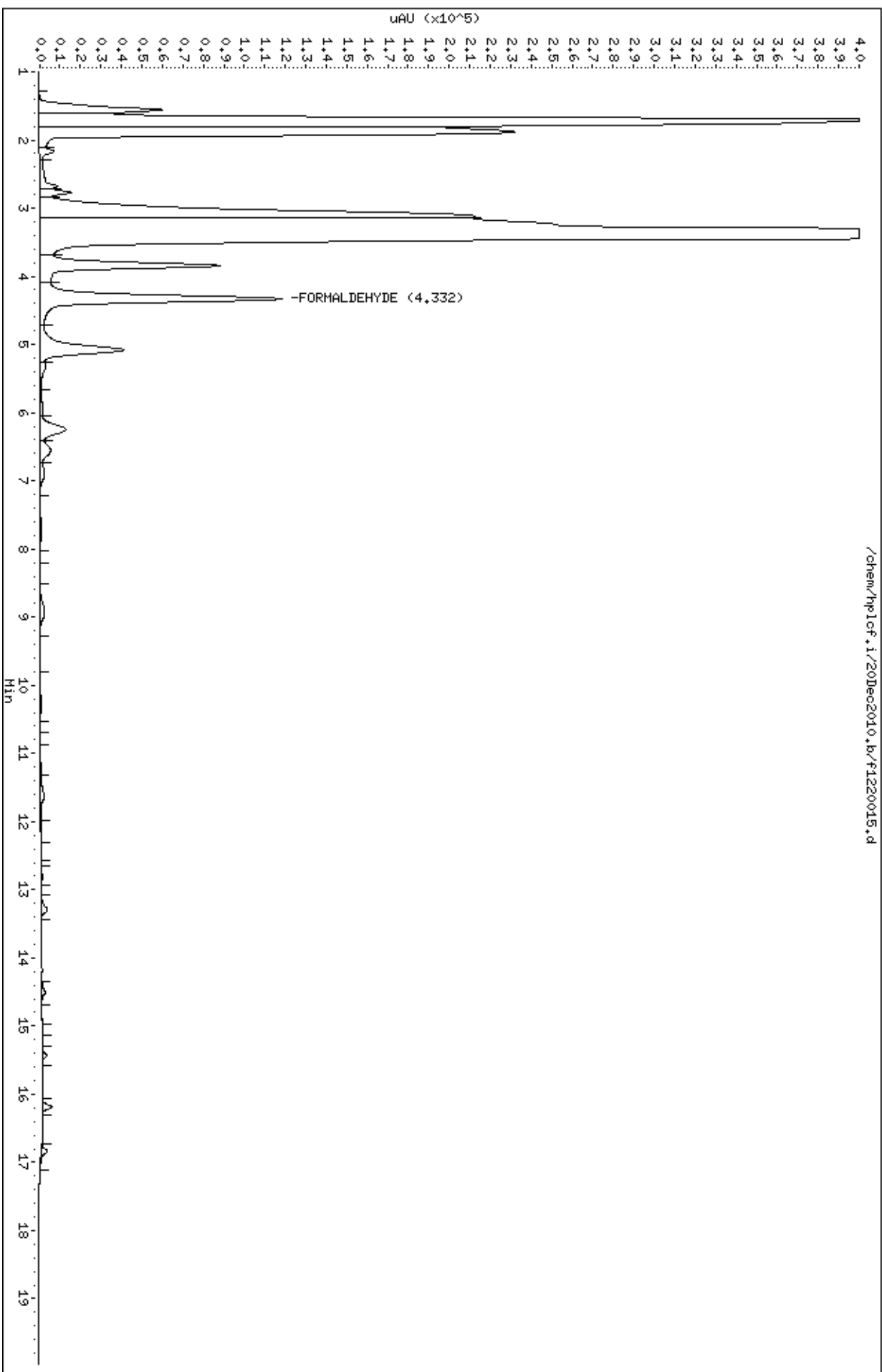
Sample Info: f10123700-140;

Purge Volume: 5.0

Operator: CRL

Column Phase: C-18 REVERSE PHASE

Column diameter: 2.00



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

Client Sample ID: 120303

Lab ID#: 1012370A-15A

No Detections Were Found.

Client Sample ID: 120303

Lab ID#: 1012370A-15A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220016
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/20/10 05:34 PM
Date of Extraction: 12/20/10

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/20Dec2010.b/f1220016.d

Lab Smp Id: 1012370A-15A

Inj Date : 20-DEC-2010 17:34

Operator : CRLInst ID: hplcf.i

Smp Info : ;1012370A-15A;

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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/hp1cf.i/20Dec2010.b/f1220016.d

Page 1

Date : 20-DEC-2010 17:34

Client ID:

Instrument: hp1cf.i

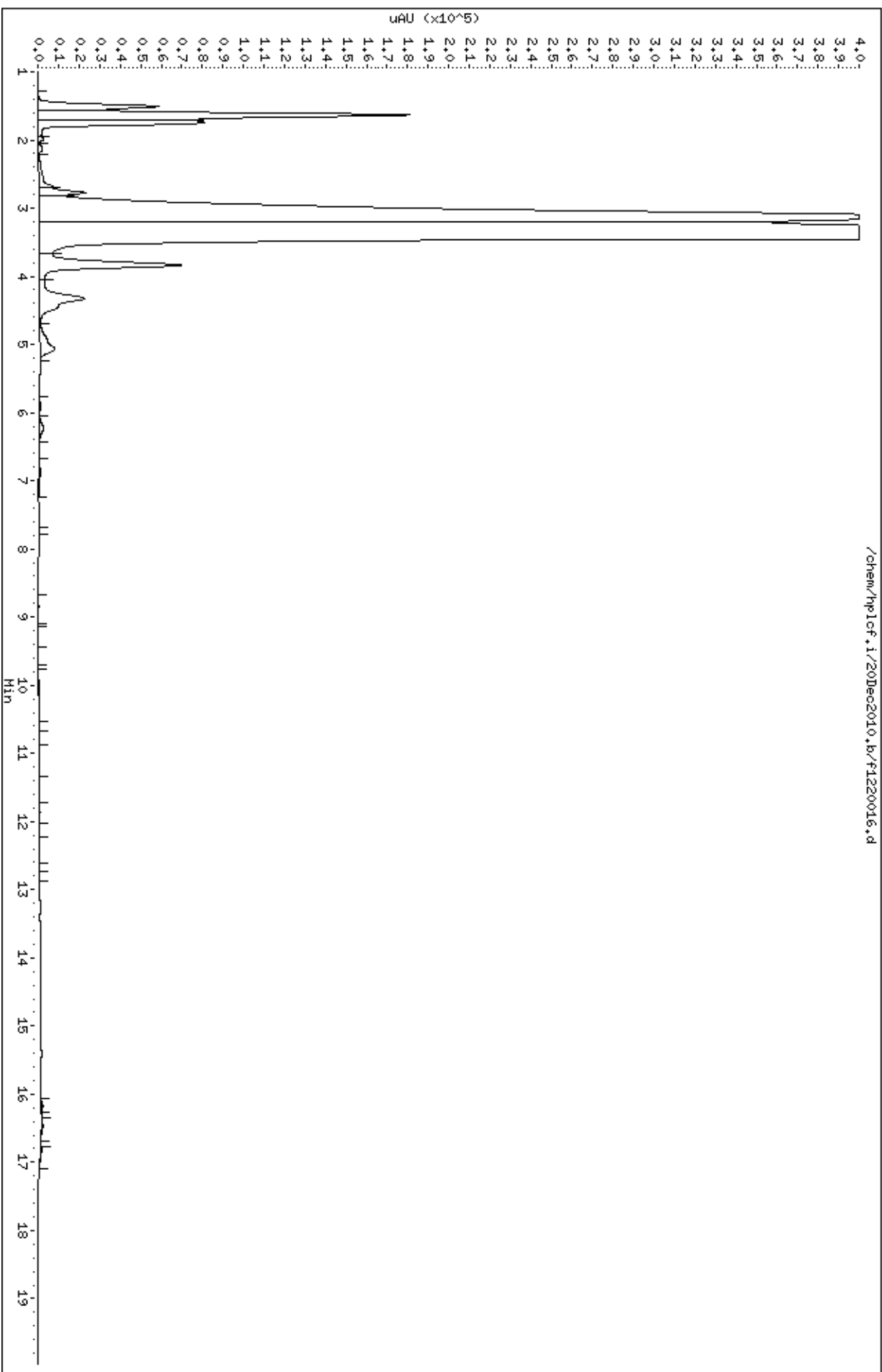
Sample Info: f10123700-15A;

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



QC Results and Raw Data

Client Sample ID: Lab Blank

Lab ID#: 1012370A-16A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220005
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/20/10 10:23 AM
Date of Extraction: 12/20/10

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Formaldehyde	1.0	1000000	Not Detected	Not Detected

Container Type: NA - Not Applicable

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220005.d

Lab Smp Id: 1012370AClient Smp ID: Lab Blank

Inj Date : 20-DEC-2010 10:23

Operator : FM/CRLInst ID: hplcf.i

Smp Info : ;1012370A;Lab Blank

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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/hp1cf.i/20Dec2010.b/f1220005.d

Page 1

Date : 20-DEC-2010 10:23

Client ID: Lab Blank

Instrument: hp1cf.i

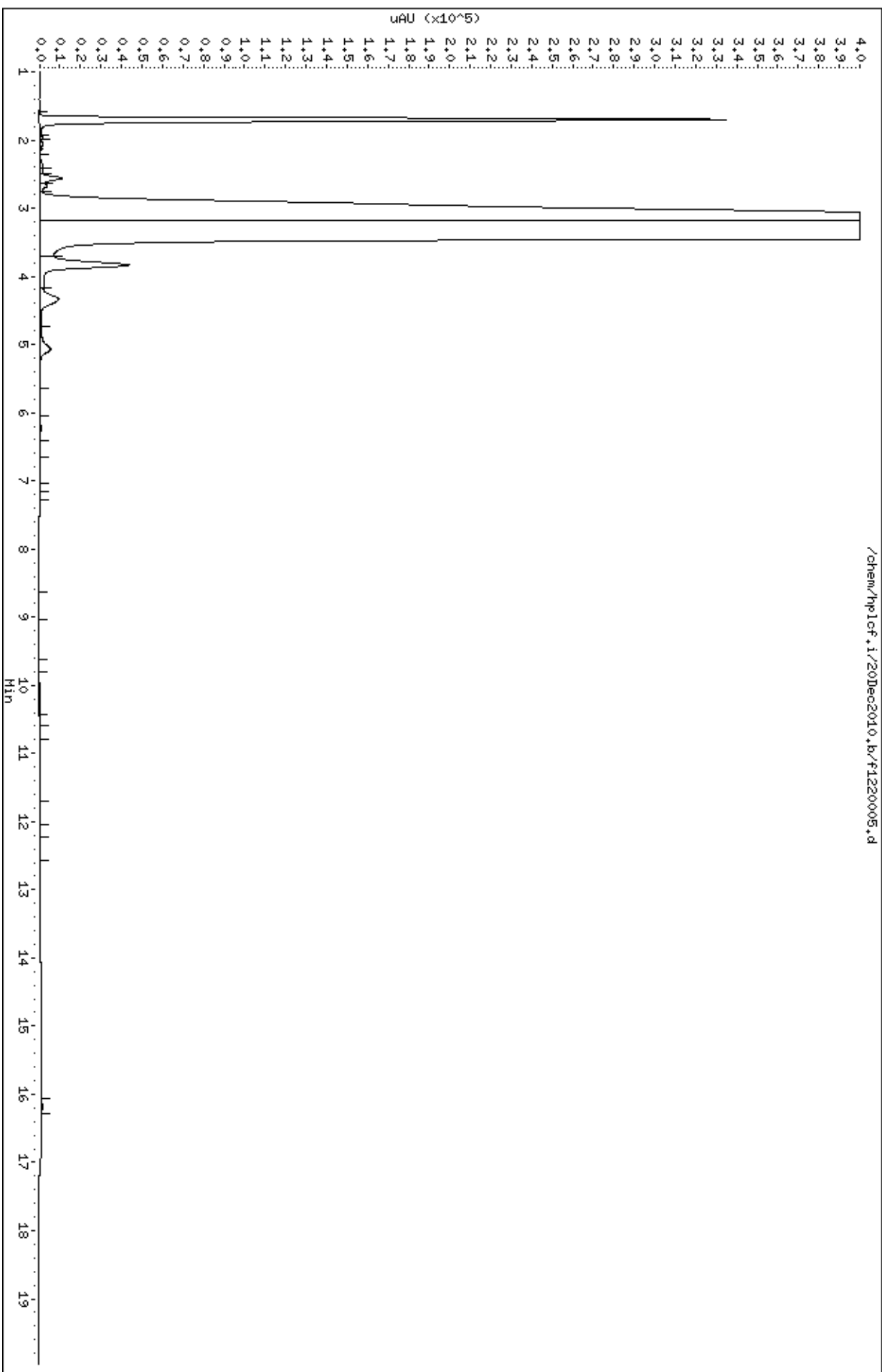
Sample Info: f10123709;Lab Blank

Purge Volume: 5.0

Operator: FN/CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: f1220007.d & f1220006.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 12/20/10 & 12/20/10

CAS Number	Compound	Original		Duplicate		RPD	Result Less Than 5X RL
		Amount	Flags	Amount	Flags		
50-00-0	Formaldehyde	98		98		0	

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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-DEC-2010 16:59
End Cal Date : 09-DEC-2010 04:08
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /chem/hplcf.i/09Dec2010.b/F10D1208.m
Cal Date : 10-Dec-2010 14:53 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/hplcf.i/09Dec2010.b/f1208004.d
Level 2: /chem/hplcf.i/09Dec2010.b/f1208007.d
Level 3: /chem/hplcf.i/09Dec2010.b/f1208010.d
Level 4: /chem/hplcf.i/09Dec2010.b/f1208013.d
Level 5: /chem/hplcf.i/09Dec2010.b/f1208016.d
Level 6: /chem/hplcf.i/09Dec2010.b/f1208019.d
Level 7: /chem/hplcf.i/09Dec2010.b/f1208022.d
Level 8: /chem/hplcf.i/09Dec2010.b/f1208025.d
Level 9: /chem/hplcf.i/09Dec2010.b/f1208028.d
Level 10: /chem/hplcf.i/09Dec2010.b/f1208034.d

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	20.000	50.000	75.000				
	Level 7	Level 8	Level 9	Level 10				
1 DNPH	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++	+++++			+++++	+++++
2 FORMALDEHYDE	142113	135993	134088	131816	130653	136652		
	140154	136307	138049	133666			135949	2.945
3 ACETALDEHYDE	+++++	105140	104003	103781	100282	102767		
	105056	102032	103494	101568			103125	1.699
4 ACROLEIN	+++++	+++++	94308	95396	92513	95962		
	98654	95340	97008	96633			95727	1.914
5 ACETONE	+++++	+++++	79495	79325	75903	76241		
	78264	76459	77225	76945			77482	1.782
6 PROPANAL	+++++	+++++	78479	78179	75272	75250		
	76654	74919	76120	75076			76243	1.887

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-DEC-2010 16:59
 End Cal Date : 09-DEC-2010 04:08
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/hplcf.i/09Dec2010.b/F10D1208.m
 Cal Date : 10-Dec-2010 14:53 lzhang
 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	+++++	+++++	71879	71752	67911	67284		
	69011	67396	68475	68045			68969	3.037
8 BUTYRALS/MEK	+++++	+++++	64681	65871	63334	63926		
	65668	64207	65280	64849			64727	1.462
9 BENZALDEHYDE	+++++	+++++	52500	50127	47106	46133		
	47253	46050	46657	46375			47775	5.014
10 ISO-PENTANAL	+++++	+++++	62535	59653	55176	54814		
	56492	55032	55809	55288			56850	5.075
11 PENTANAL	+++++	+++++	61404	58539	54412	54611		
	56599	55142	55969	54806			56435	4.332
12 O-TOLUALDEHYDE	+++++	+++++	44312	43909	41102	41614		
	42665	41855	42305	41552			42414	2.935
13 M, P-TOLUALDEHYDE	+++++	44828	42979	40589	38902	38121		
	39232	38060	38653	38349			39968	5.944
14 HEXANAL	+++++	+++++	50181	48876	47749	47660		
	48848	47544	48012	47742			48327	1.906
15 2,5-Dimethylbenzaldehyde	+++++	+++++	37751	36988	35090	34794		
	35592	34584	34775	34552			35516	3.371
16 Acetophenone	+++++	+++++	45940	43753	40736	40555		
	41559	40573	41144	41311			41946	4.559

Calibration History

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m
Start Cal Date: 08-DEC-2010 16:59
End Cal Date : 09-DEC-2010 04:08

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.05000		
08-DEC-2010 17:41	form	/chem/hplcf.i/09Dec2010.b/f1208004.d
08-DEC-2010 17:20	form	/chem/hplcf.i/09Dec2010.b/f1208003.d
08-DEC-2010 16:59	form	/chem/hplcf.i/09Dec2010.b/f1208002.d

Cal Level: 2 , Cal Amount: 0.10000		
08-DEC-2010 18:44	foracetmp	/chem/hplcf.i/09Dec2010.b/f1208007.d
08-DEC-2010 18:23	foracetmp	/chem/hplcf.i/09Dec2010.b/f1208006.d
08-DEC-2010 18:02	foracetmp	/chem/hplcf.i/09Dec2010.b/f1208005.d

Cal Level: 3 , Cal Amount: 0.25000		
08-DEC-2010 19:46	all	/chem/hplcf.i/09Dec2010.b/f1208010.d
08-DEC-2010 19:25	all	/chem/hplcf.i/09Dec2010.b/f1208009.d
08-DEC-2010 19:05	all	/chem/hplcf.i/09Dec2010.b/f1208008.d

Cal Level: 4 , Cal Amount: 0.50000		
08-DEC-2010 20:49	all	/chem/hplcf.i/09Dec2010.b/f1208013.d
08-DEC-2010 20:28	all	/chem/hplcf.i/09Dec2010.b/f1208012.d
08-DEC-2010 20:07	all	/chem/hplcf.i/09Dec2010.b/f1208011.d

Cal Level: 5 , Cal Amount: 1.00000		
08-DEC-2010 21:52	all	/chem/hplcf.i/09Dec2010.b/f1208016.d
08-DEC-2010 21:31	all	/chem/hplcf.i/09Dec2010.b/f1208015.d
08-DEC-2010 21:10	all	/chem/hplcf.i/09Dec2010.b/f1208014.d

Cal Level: 6 , Cal Amount: 4.00000		
08-DEC-2010 22:54	all	/chem/hplcf.i/09Dec2010.b/f1208019.d
08-DEC-2010 22:33	all	/chem/hplcf.i/09Dec2010.b/f1208018.d
08-DEC-2010 22:13	all	/chem/hplcf.i/09Dec2010.b/f1208017.d

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+-----+-----+-----+
| Cal Level: 7 , Cal Amount: 10.00000 |
+=====+
| 08-DEC-2010 23:57 |all |/chem/hplcf.i/09Dec2010.b/f1208022.d |
| 08-DEC-2010 23:36 |all |/chem/hplcf.i/09Dec2010.b/f1208021.d |
| 08-DEC-2010 23:15 |all |/chem/hplcf.i/09Dec2010.b/f1208020.d |
+-----+-----+-----+

+-----+-----+-----+
| Cal Level: 8 , Cal Amount: 20.00000 |
+=====+
| 09-DEC-2010 01:00 |all |/chem/hplcf.i/09Dec2010.b/f1208025.d |
| 09-DEC-2010 00:39 |all |/chem/hplcf.i/09Dec2010.b/f1208024.d |
| 09-DEC-2010 00:18 |all |/chem/hplcf.i/09Dec2010.b/f1208023.d |
+-----+-----+-----+

+-----+-----+-----+
| Cal Level: 9 , Cal Amount: 50.00000 |
+=====+
| 09-DEC-2010 02:02 |all |/chem/hplcf.i/09Dec2010.b/f1208028.d |
| 09-DEC-2010 01:42 |all |/chem/hplcf.i/09Dec2010.b/f1208027.d |
| 09-DEC-2010 01:21 |all |/chem/hplcf.i/09Dec2010.b/f1208026.d |
+-----+-----+-----+

+-----+-----+-----+
| Cal Level: 10, Cal Amount: 75.00000 |
+=====+
| 09-DEC-2010 04:08 |Acetoph |/chem/hplcf.i/09Dec2010.b/f1208034.d |
| 09-DEC-2010 03:47 |Acetoph |/chem/hplcf.i/09Dec2010.b/f1208033.d |
| 09-DEC-2010 03:26 |Acetoph |/chem/hplcf.i/09Dec2010.b/f1208032.d |
| 09-DEC-2010 03:05 |TO-11+Acr+17 |/chem/hplcf.i/09Dec2010.b/f1208031.d |
| 09-DEC-2010 02:44 |TO-11+Acr+17 |/chem/hplcf.i/09Dec2010.b/f1208030.d |
| 09-DEC-2010 02:23 |TO-11+Acr+17 |/chem/hplcf.i/09Dec2010.b/f1208029.d |
+-----+-----+-----+

```

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 7

```

+-----+-----+-----+
| Ccal Level: 7 , Ccal Amount: 10.0 |
+=====+
| 08-DEC-2010 23:15 |all |/chem/hplcf.i/09Dec2010.b/f1208020a.d |
+-----+-----+-----+
| Ccal Level: 7 , Ccal Amount: 10.0 |
+=====+
| 08-DEC-2010 23:57 |all |/chem/hplcf.i/09Dec2010.b/f1208022.d |
+-----+-----+-----+
| Ccal Level: 7 , Ccal Amount: 10.0 |
+=====+
| 08-DEC-2010 23:36 |all |/chem/hplcf.i/09Dec2010.b/f1208021.d |
+-----+-----+-----+
| Ccal Level: 7 , Ccal Amount: 10.0 |
+=====+
| 08-DEC-2010 23:15 |all |/chem/hplcf.i/09Dec2010.b/f1208020.d |
+-----+-----+-----+
| Ccal Level: 7 , Ccal Amount: 10.0 |
+=====+
| 09-DEC-2010 04:08 |Acetoph |/chem/hplcf.i/09Dec2010.b/f1208034.d |
+-----+-----+-----+

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Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-DEC-2010 16:59
 End Cal Date : 09-DEC-2010 04:08
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/hplcf.i/09Dec2010.b/F10D1208.m
 Cal Date : 10-Dec-2010 13:17 lzhang
 Curve Type : Average

Calibration File Names:

Level 1: /chem/hplcf.i/09Dec2010.b/f1208004.d
 Level 2: /chem/hplcf.i/09Dec2010.b/f1208007.d
 Level 3: /chem/hplcf.i/09Dec2010.b/f1208010.d
 Level 4: /chem/hplcf.i/09Dec2010.b/f1208013.d
 Level 5: /chem/hplcf.i/09Dec2010.b/f1208016.d
 Level 6: /chem/hplcf.i/09Dec2010.b/f1208019.d
 Level 7: /chem/hplcf.i/09Dec2010.b/f1208022.d
 Level 8: /chem/hplcf.i/09Dec2010.b/f1208025.d
 Level 9: /chem/hplcf.i/09Dec2010.b/f1208028.d
 Level 10: /chem/hplcf.i/09Dec2010.b/f1208034.d

Please see Calibration History page(s)
for all the calibration files.

2nd Source:

f1208036
f1208037.

Based on 20 µL sample loop injection

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				
1 DNPB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 FORMALDEHYDE	142113	135993	134088	131816	130653	136652	135949	2.945
3 ACETALDEHYDE	✓105056	✓105140	✓104003	✓103781	✓100282	✓102767	✓103125	1.699
4 ACROLEIN	98654	95340	97008	96633	92513	95962	95727	1.914
5 ACETONE	78264	76459	77225	76945	75903	76241	77482	1.782
6 PROPANAL	76654	74919	76120	75076	75272	75250	76243	1.887

12/10/10
 Amy Lee
 12/13/10

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-DEC-2010 16:59
 End Cal Date : 09-DEC-2010 04:08
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /chem/hplcf.i/09Dec2010.b/F10D1208.m
 Cal Date : 10-Dec-2010 14:53 lzhang
 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	+++++	+++++	71879	71752	67911	67284		
	69011	67396	68475	68045			68969	3.037
8 BUTYRALS/MEK	+++++	+++++	64681	65871	63334	63926		
	65668	64207	65280	64849			64727	1.462
9 BENZALDEHYDE	+++++	+++++	52500	50127	47106	46133		
	47253	46050	46657	46375			47775	5.014
10 ISO-PENTANAL	+++++	+++++	62535	59653	55176	54814		
	56492	55032	55809	55288			56850	5.075
11 PENTANAL	+++++	+++++	61404	58539	54412	54611		
	56599	55142	55969	54806			56435	4.332
12 O-TOLUALDEHYDE	+++++	+++++	44312	43909	41102	41614		
	42665	41855	42305	41552			42414	2.935
13 M,P-TOLUALDEHYDE *	+++++	44828	42979	40589	38902	38121		
	39232	38060	38653	38349			39968	5.944
14 HEXANAL	+++++	+++++	50181	48876	47749	47660		
	48848	47544	48012	47742			48327	1.906
15 2,5-Dimethylbenzaldehyde	+++++	+++++	37751	36988	35090	34794		
	35592	34584	34775	34552			35516	3.371
16 Acetophenone	+++++	+++++	45940	43753	40736	40555		
	41559	40573	41144	41311			41946	4.559

* CALIBRATION LEVEL: 0.20, 0.50, 1.0, 2.0, 5.0, 20, 40, 100 and 150 µg/mL

Method: All HPLC methodsPressure: 100 bar

U s e	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	f 1208001	ACN CCB	1.00	CR	12/08/10	1638	W	
✓	2	1838-44-0.05				1659		Level 1
✓	3	↓				1720		
✓	4	↓				1741		
✓	5	1838-44-0.10				1802		Level 2
✓	6	↓				1823		
✓	7	↓				1844		
✓	8	1838-44-0.25				1905		Level 3
✓	9	↓				1925		
✓	10	↓				1946		
✓	11	1838-44-0.50				2007		Level 4
✓	12					2028		
✓	13					2049		
✓	14	1838-44-1.0				2110		Level 5
✓	15					2131		
✓	16					2152		
✓	17	1838-44-4.0				2213		Level 6
✓	18					2233		
✓	19					2254		
✓	20	1838-44-10				2315		Level 7
✓	21					2336		
✓	22					2357		
✓	23	1838-44-20			12/9/10	0018		Level 8
✓	24					0039		
✓	25					0100		
✓	26	1838-44-50				0121		Level 9
✓	27					0142		
✓	28					0202		

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

See next pg.

Reported Result: W 12/10/10

Pressure: 1.00 bar

W 1241910

Calculation Check:

Initials: W

4.10

4.10

Revised 07/08

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208036.d

Lab Smp Id: 1838-47-4Client Smp ID: LCS

Inj Date : 09-DEC-2010 04:50

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-47-4;LCS

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.d

Als bottle: 1QC Sample: LCS

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: T0-11+Acr+17.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.315	4.305	0.010	557820	4.10315	4.10
3 ACETALDEHYDE	5.062	5.052	0.010	421274	4.08509	4.08
4 ACROLEIN	5.928	5.905	0.023	383146	4.00250	4.00
5 ACETONE	6.229	6.199	0.030	320203	4.13261	4.13
6 PROPANAL	6.529	6.505	0.024	307546	4.03374	4.03
7 CROTONAL	7.822	7.779	0.043	283931	4.11679	4.12
8 BUTYRALS/MEK	8.855	8.812	0.043	258805	3.99841	4.00
9 BENZALDEHYDE	10.235	10.192	0.043	192827	4.03614	4.04
10 ISO-PENTANAL	11.182	11.152	0.030	229630	4.03924	4.04
11 PENTANAL	11.595	11.572	0.023	218078	3.86422	3.86
12 O-TOLUALDEHYDE	12.182	12.159	0.023	170593	4.02206	4.02
13 M,P-TOLUALDEHYDE	12.362	12.339	0.023	321073	8.15719	8.16
14 HEXANAL	13.289	13.265	0.024	191660	3.96594	3.96
15 2,5-Dimethylbenzaldehyde	13.608	13.592	0.016	142990	4.02610	4.03

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 09Dec2010
Sample Matrix: LIQUID Fraction: OTHER
Lab Smp Id: 1838-47-4 Client Smp ID: LCS
Level: HIGH Operator: CRL
Data Type: LC DATA SampleType: LCS
SpikeList File: 4ug2nd.spk Quant Type: ESTD
Sublist File: T0-11+Acr+17.sub
Method File: /chem/hplcf.i/09Dec2010.b/F10D1208.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	4.00	4.10	102.58	85-115
3 ACETALDEHYDE	4.00	4.08	102.13	85-115
4 ACROLEIN	4.00	4.00	100.06	85-115
5 ACETONE	4.00	4.13	103.32	85-115
6 PROPANAL	4.00	4.03	100.84	85-115
7 CROTONAL	4.00	4.12	102.92	85-115
8 BUTYRALS/MEK	4.00	4.00	99.96	85-115
9 BENZALDEHYDE	4.00	4.04	100.90	85-115
10 ISO-PENTANAL	4.00	4.04	100.98	85-115
11 PENTANAL	4.00	3.86	96.61	85-115
12 O-TOLUALDEHYDE	4.00	4.02	100.55	85-115
13 M,P-TOLUALDEHYDE	8.00	8.16	101.96	85-115
14 HEXANAL	4.00	3.96	99.15	85-115
15 2,5-Dimethylbenzal	4.00	4.03	100.65	85-115

Data File: /chem/hp1cf.i/09Dec2010.b/f1208036.d

Date : 09-DEC-2010 04:50

Client ID: LCS

Sample Info: f1838-47-4;LCS

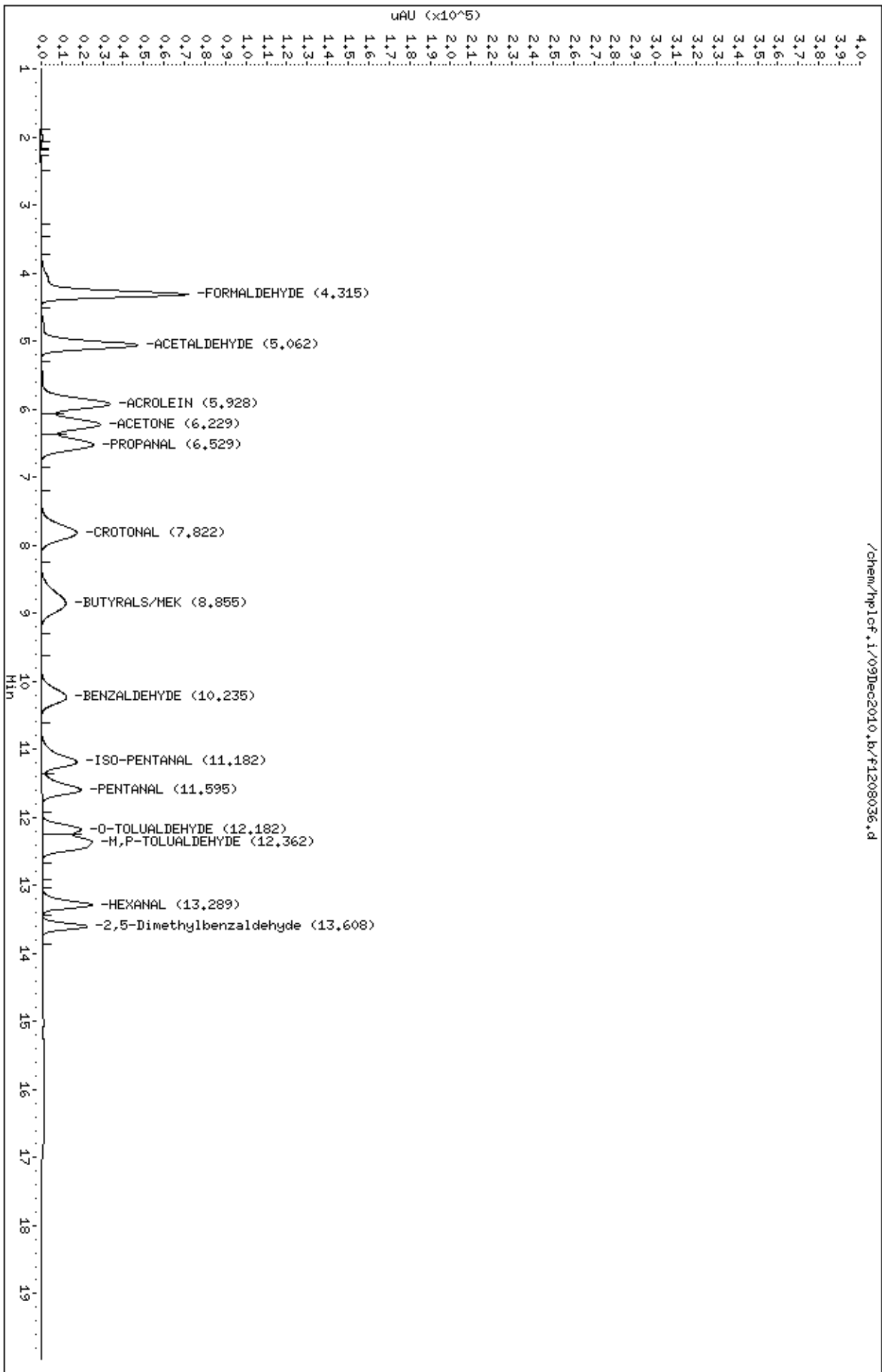
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



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

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug)
=====	==	=====	=====	=====	=====	=====
1 DNPH		Compound Not Detected.				
16 Acetophenone	11.861	11.843	0.018	167745	3.99904	4.00

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 09Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-46-4	Client Smp ID: LCS
Level: HIGH	Operator: CRL
Data Type: LC DATA	SampleType: LCS
SpikeList File: acetoph2nd.spk	Quant Type: ESTD
Sublist File: Acetoph.sub	
Method File: /chem/hplcf.i/09Dec2010.b/F10D1208.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
16 Acetophenone	4.00	4.00	99.98	85-115

Data File: /chem/hp1cf.i/09Dec2010.b/f1208037.d

Page 1

Date : 09-DEC-2010 05:10

Client ID: LCS

Instrument: hp1cf.i

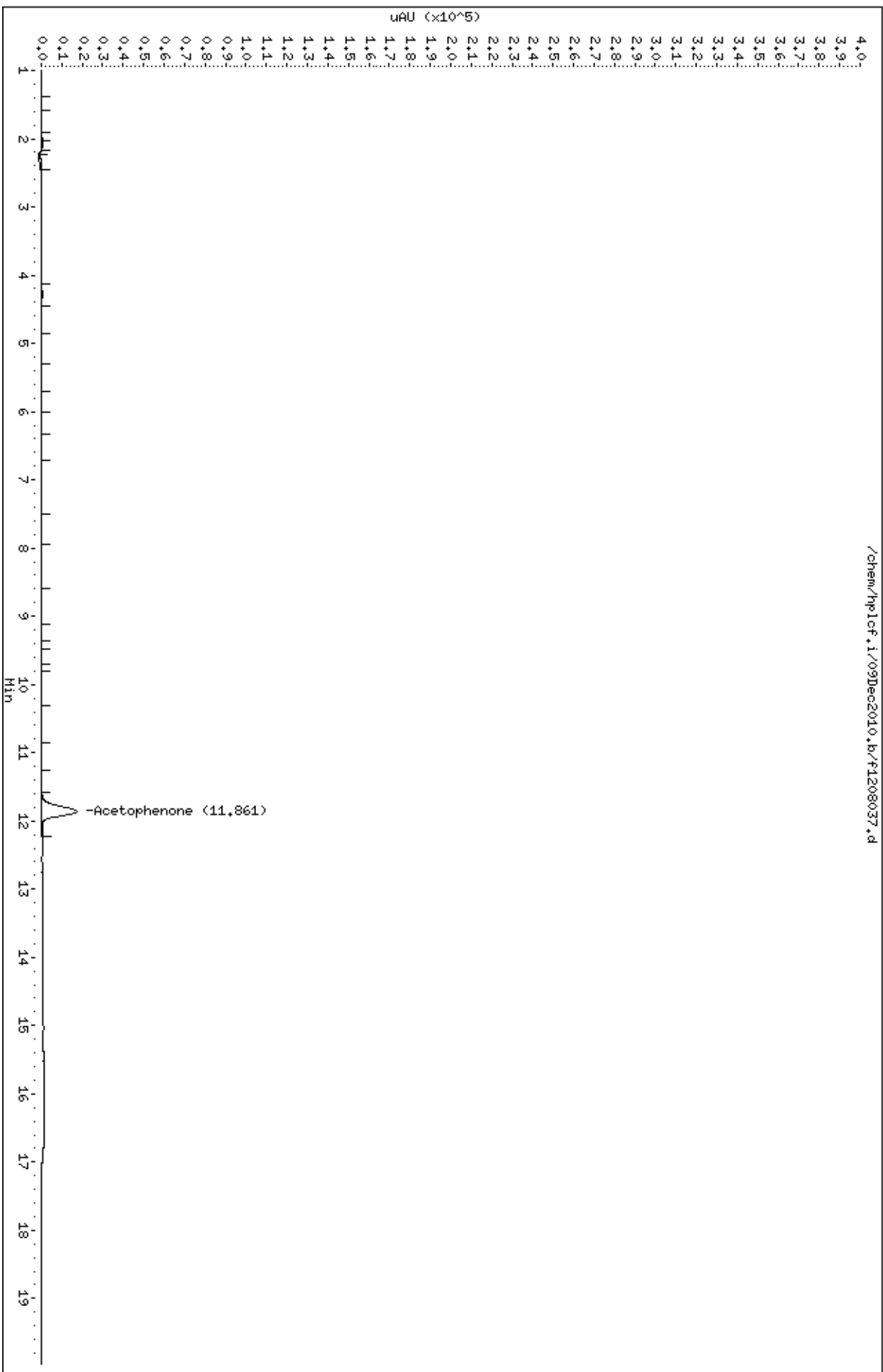
Sample Info: f1838-46-4;Acetophenone LCS

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.308	4.308	0.000	7000	0.05000	0.0515

Data File: /chem/hp1cf.i/09Dec2010.b/f1208004.d

Page 1

Date : 08-DEC-2010 17:41

Client ID: 1

Instrument: hp1cf.i

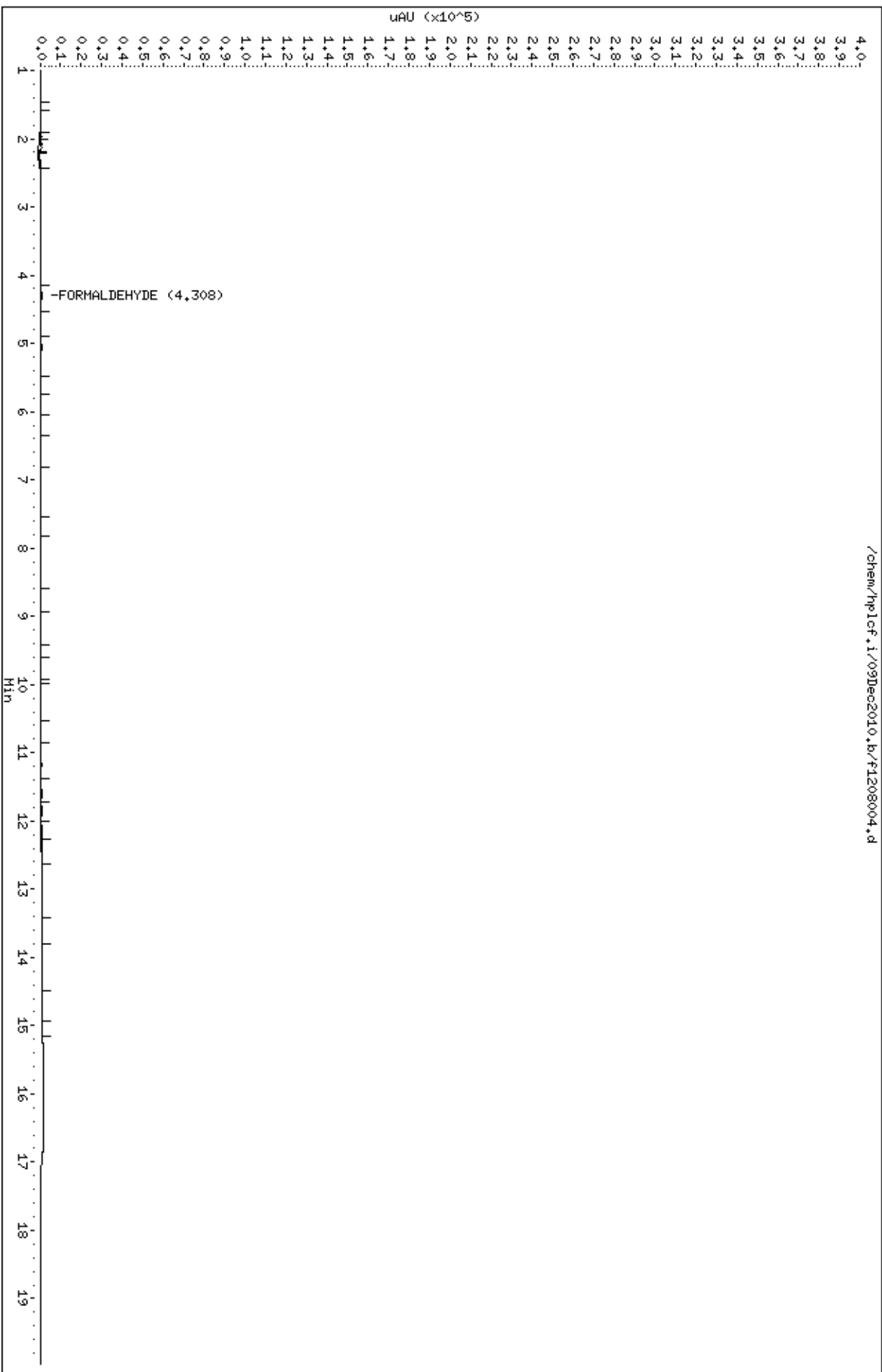
Sample Info: f1838-44-0.05;1

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/09Dec2010.b/f1208003.d

Lab Smp Id: 1838-44-0.05Client Smp ID: 1

Inj Date : 08-DEC-2010 17:20

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-0.05;1

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhangQuant Type: ESTD

Cal Date : 08-DEC-2010 17:20Cal File: f1208003.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds	AMOUNTS					
	CAL-AMT			ON-COL		
	RT	EXP RT	DLT RT	RESPONSE	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.299	4.299	0.000	7075	0.05000	0.0521

Data File: /chem/hp1cf.i/09Dec2010.b/f1208003.d

Date : 08-DEC-2010 17:20

Client ID: 1

Sample Info: f1838-44-0.05;1

Purge Volume: 5.0

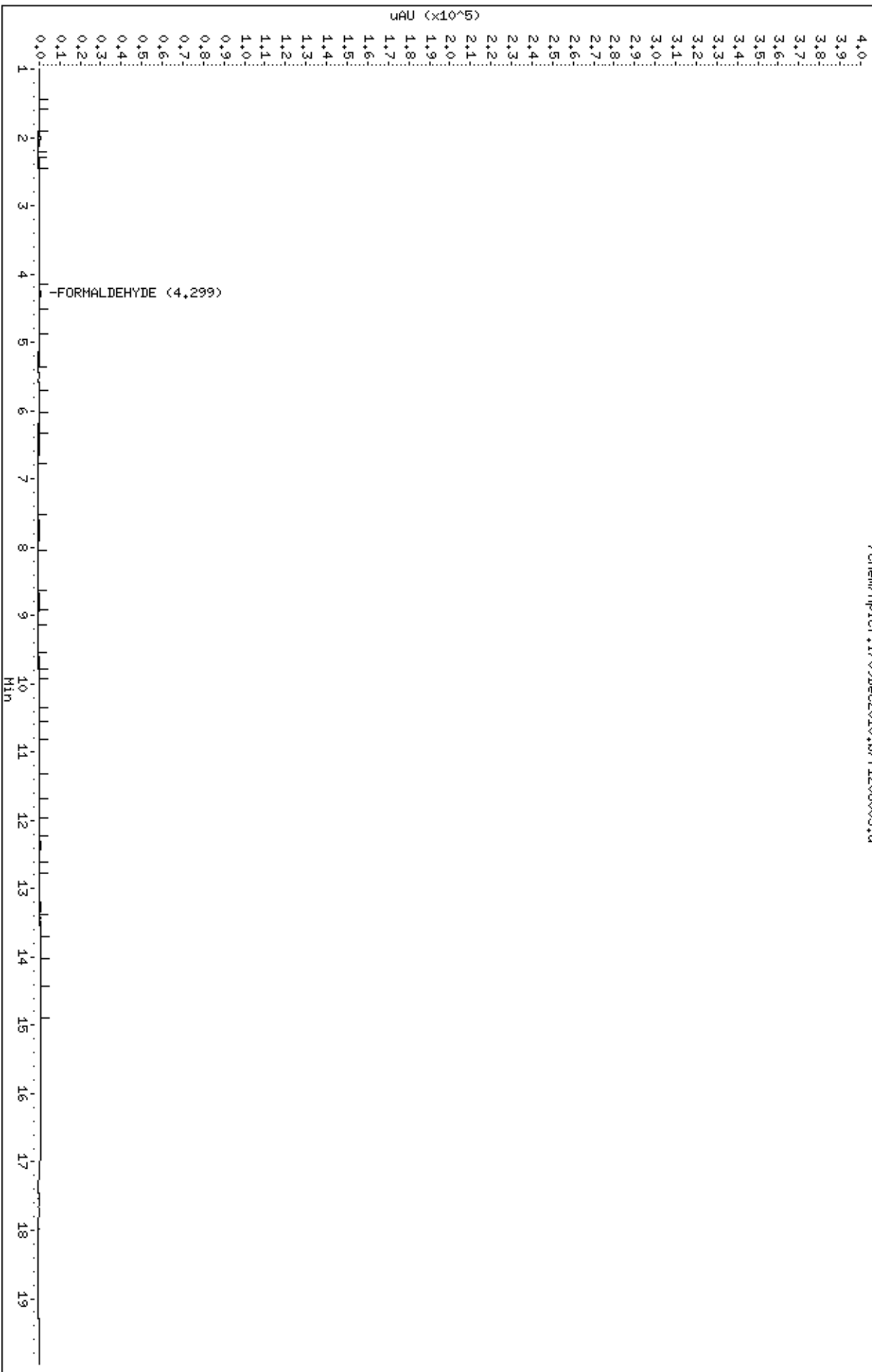
Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00

/chem/hp1cf.i/09Dec2010.b/f1208003.d



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208002.d

Lab Smp Id: 1838-44-0.05

Client Smp ID: 1

Inj Date : 08-DEC-2010 16:59

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-0.05;1

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 17:20

Cal File: f1208003.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 * CpndVariable

Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH		Compound Not Detected.				
2 FORMALDEHYDE	4.292	4.292	0.000	7242	0.05000	0.0533

Data File: /chem/hp1cf.i/09Dec2010.b/f1208002.d

Page 1

Date : 08-DEC-2010 16:59

Client ID: 1

Instrument: hp1cf.i

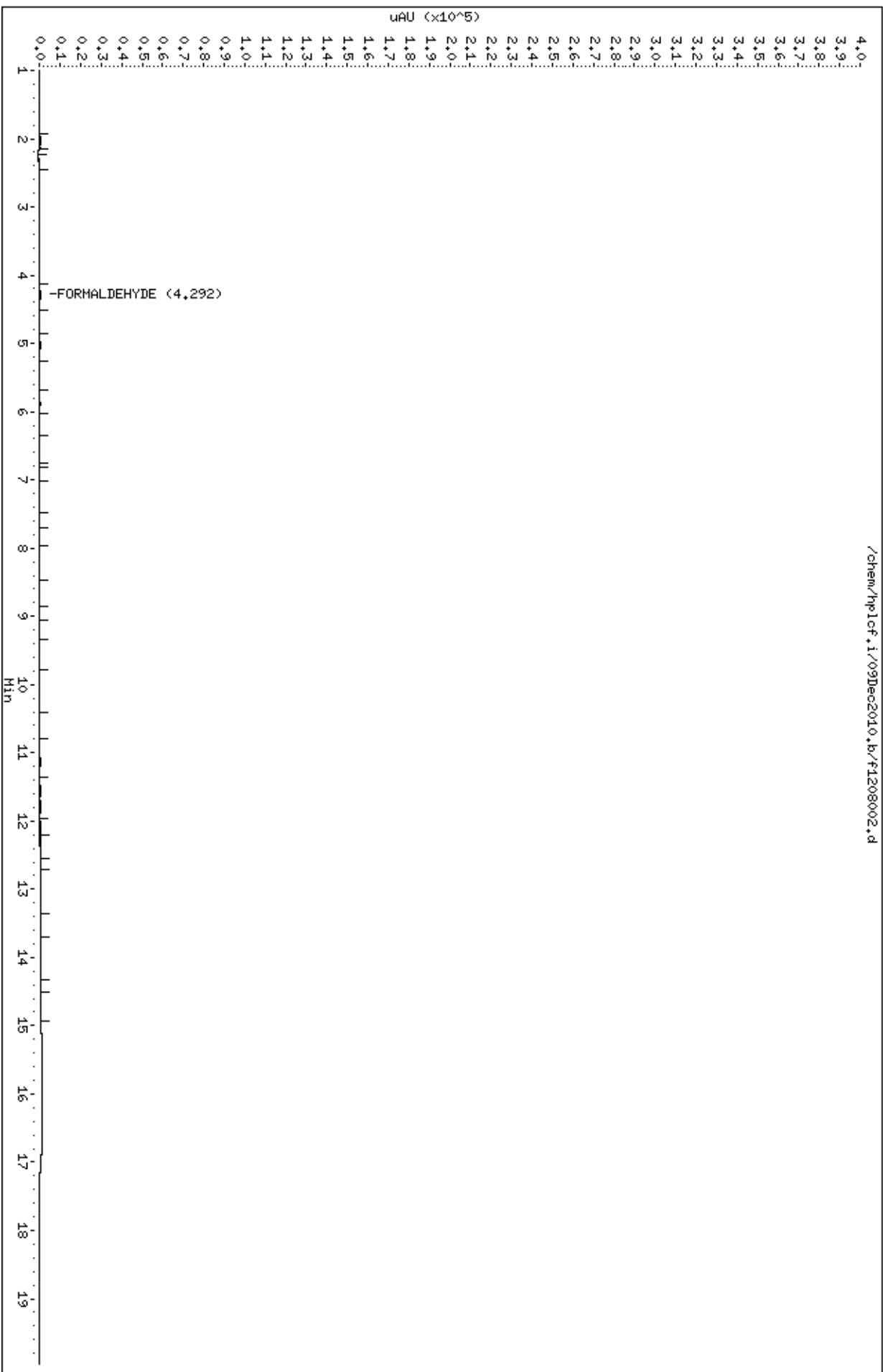
Sample Info: f1838-44-0.05;1

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

Cpnd Variable	Local Compound Variable
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Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH				Compound Not Detected.		
2 FORMALDEHYDE	4.309	4.309	0.000	13482	0.10000	0.0992
3 ACETALDEHYDE	5.063	5.063	0.000	10353	0.10000	0.100
13 M,P-TOLUALDEHYDE	12.350	12.350	0.000	8742	0.20000	0.222

Data File: /chem/hp1cf.i/09Dec2010.b/f1208007.d

Page 1

Date : 08-DEC-2010 18:44

Client ID: 2

Instrument: hp1cf.i

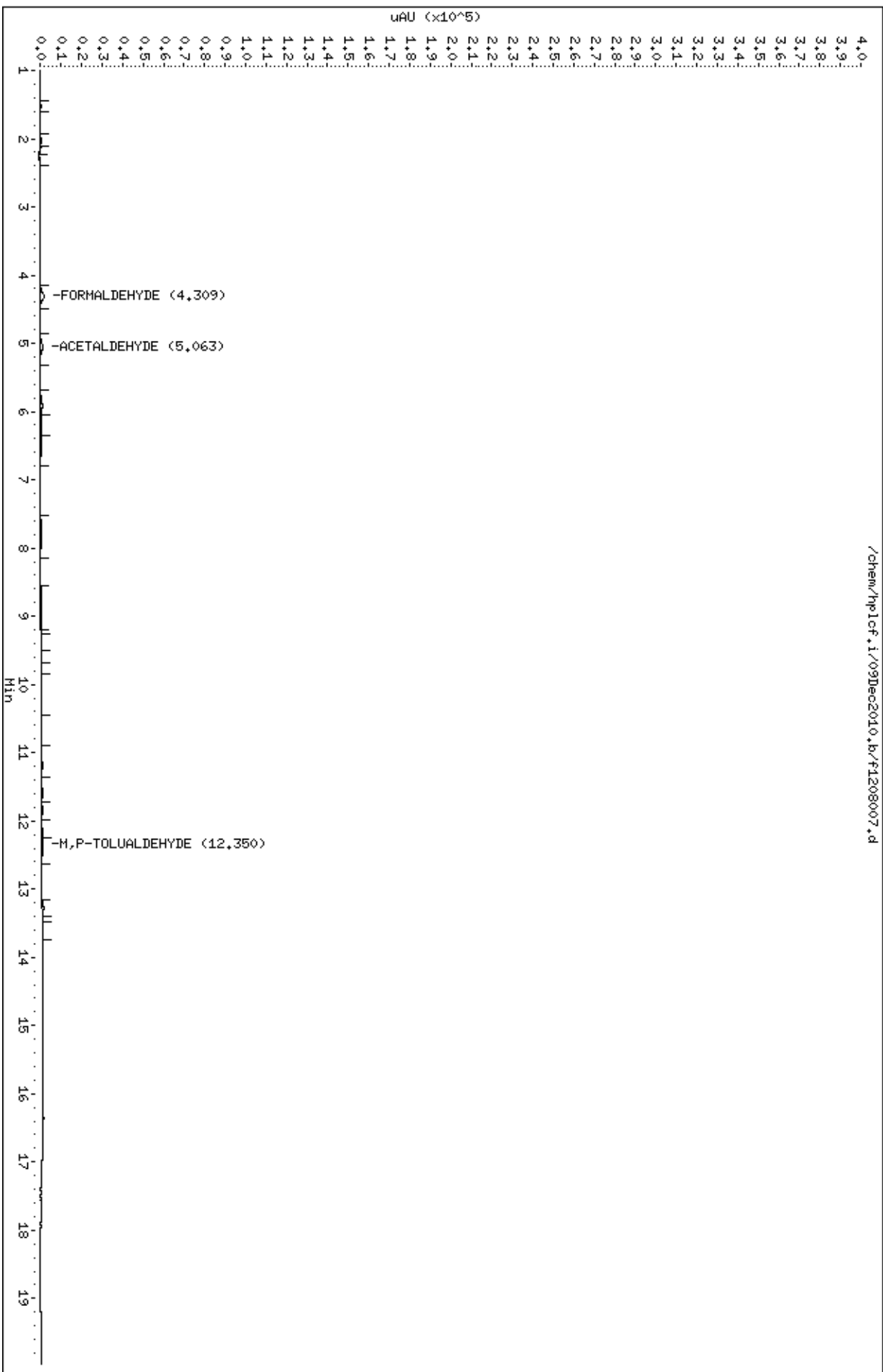
Sample Info: f1838-44-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



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

Cpnd Variable	Local Compound Variable
1	1
2	2
3	3
4	4
5	5
6	6
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9	9
10	10
11	11
12	12
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90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH		Compound Not Detected.				
2 FORMALDEHYDE	4.310	4.310	0.000	13893	0.10000	0.102
3 ACETALDEHYDE	5.064	5.064	0.000	10745	0.10000	0.104
13 M,P-TOLUALDEHYDE	12.357	12.357	0.000	8852	0.20000	0.225

Data File: /chem/hp1cf.i/09Dec2010.b/f1208006.d

Page 1

Date : 08-DEC-2010 18:23

Client ID: 2

Instrument: hp1cf.i

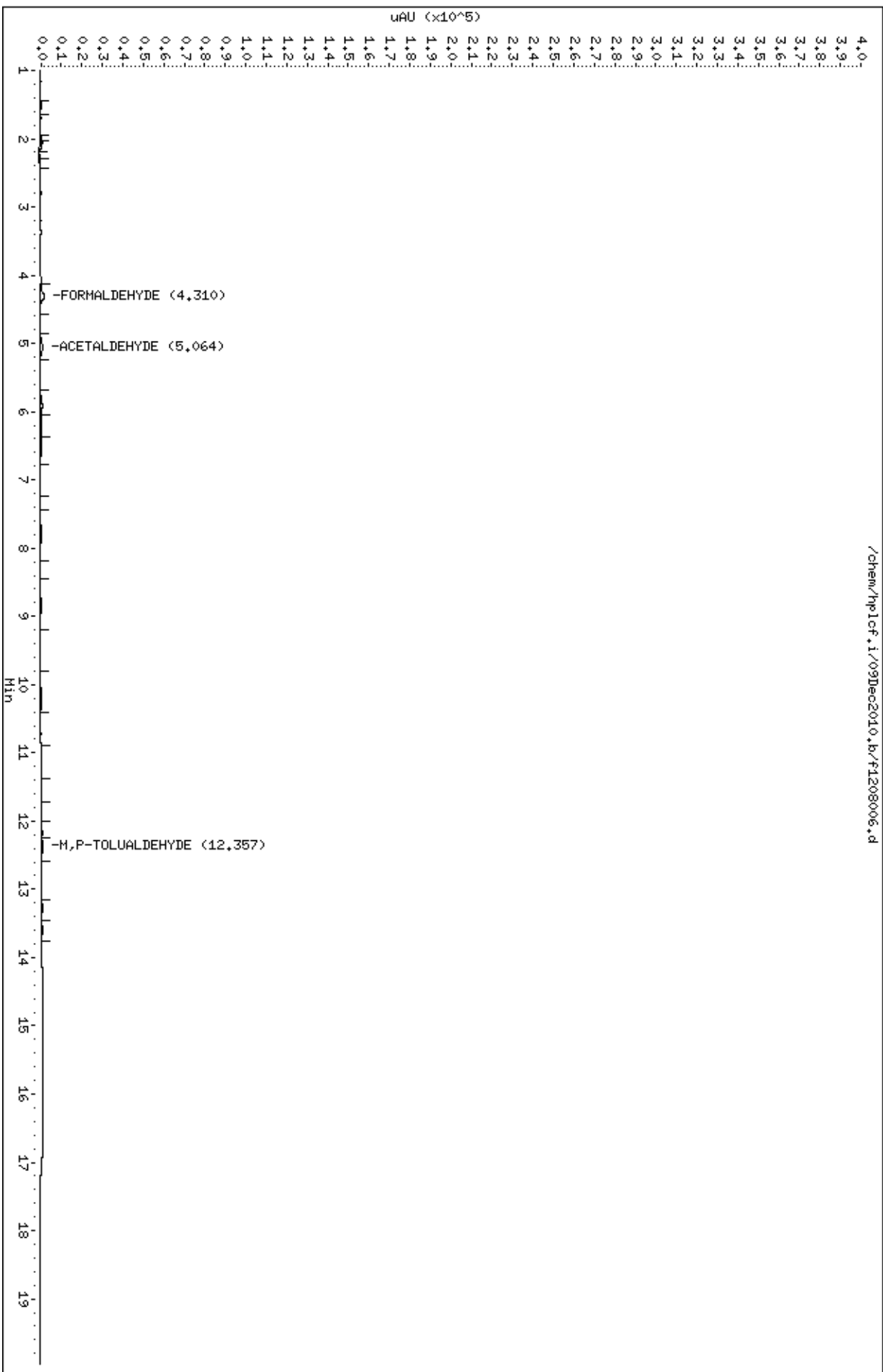
Sample Info: f1838-44-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208005.d

Lab Smp Id: 1838-44-0.1

Client Smp ID: 2

Inj Date : 08-DEC-2010 18:02

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-0.1;2

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 18:44

Cal File: f1208007.d

Als bottle: 1

Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: foracetmp.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	AMOUNTS	
							CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====			=====	=====	
1 DNPH								
2 FORMALDEHYDE	4.318	4.318	0.000			13423	0.10000	0.0987
3 ACETALDEHYDE	5.065	5.065	0.000			10444	0.10000	0.101
13 M,P-TOLUALDEHYDE	12.351	12.351	0.000			9303	0.20000	0.236

Data File: /chem/hp1cf.i/09Dec2010.b/f1208005.d

Page 1

Date : 08-DEC-2010 18:02

Client ID: 2

Instrument: hp1cf.i

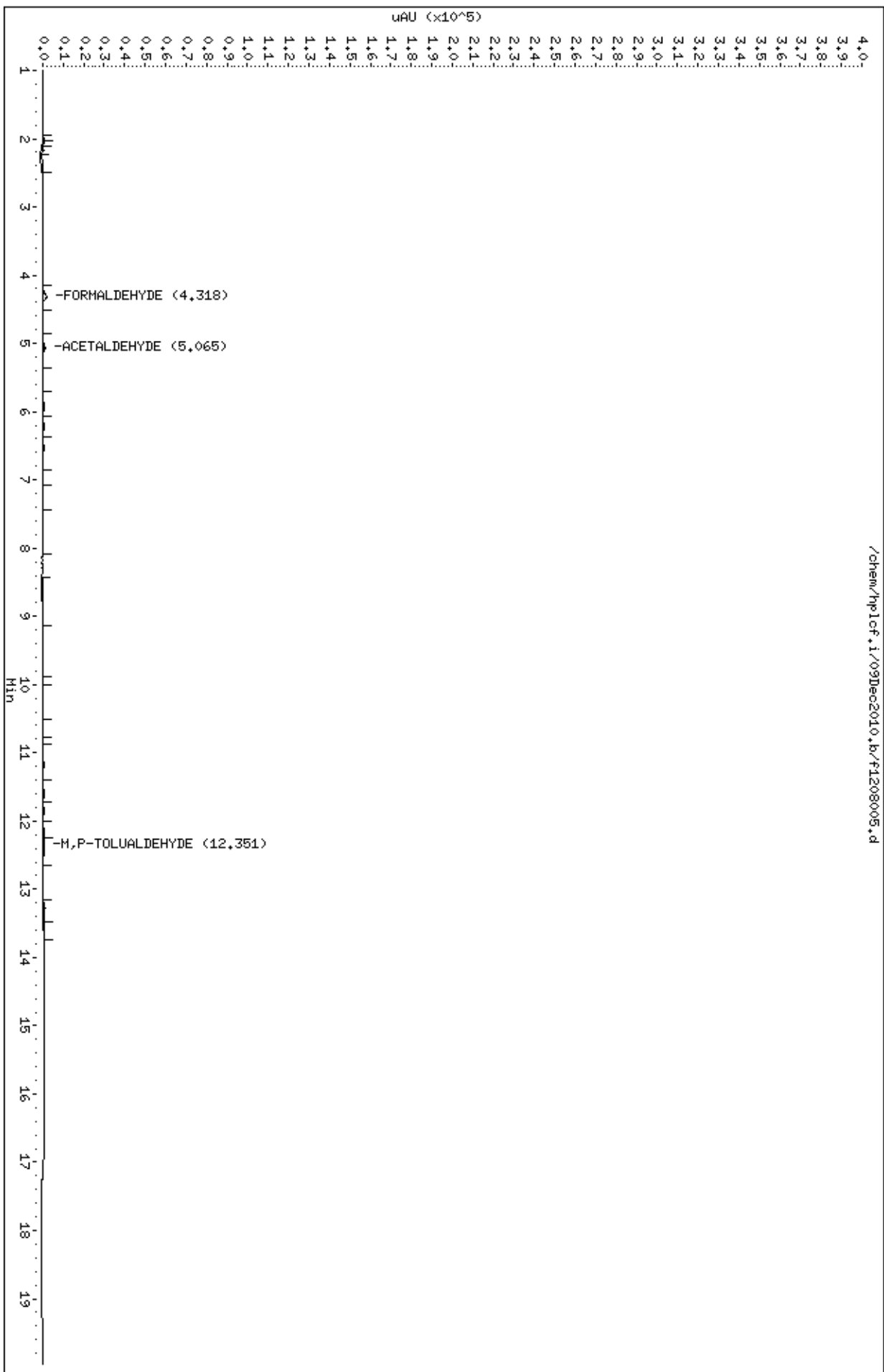
Sample Info: f1838-44-0.1;2

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208010.d

Lab Smp Id: 1838-44-0.25

Client Smp ID: 3

Inj Date : 08-DEC-2010 19:46

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-0.25;3

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 19:46

Cal File: f1208010.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.313	4.313	0.000	33504	0.25000	0.246
3 ACETALDEHYDE	5.059	5.059	0.000	26042	0.25000	0.252
4 ACROLEIN	5.919	5.919	0.000	23726	0.25000	0.248
5 ACETONE	6.219	6.219	0.000	19988	0.25000	0.258
6 PROPANAL	6.526	6.526	0.000	19651	0.25000	0.258
7 CROTONAL	7.799	7.799	0.000	17018	0.25000	0.247
8 BUTYRALS/MEK	8.833	8.833	0.000	16525	0.25000	0.255
9 BENZALDEHYDE	10.206	10.206	0.000	13707	0.25000	0.287
10 ISO-PENTANAL	11.173	11.173	0.000	16328	0.25000	0.287
11 PENTANAL	11.586	11.586	0.000	15681	0.25000	0.278
12 O-TOLUALDEHYDE	12.166	12.166	0.000	11447	0.25000	0.270
13 M,P-TOLUALDEHYDE	12.353	12.353	0.000	20936	0.50000	0.532
14 HEXANAL	13.273	13.273	0.000	12340	0.25000	0.255
15 2,5-Dimethylbenzaldehyde	13.593	13.593	0.000	9533	0.25000	0.268
16 Acetophenone	11.839	11.839	0.000	11598	0.25000	0.276

Data File: /chem/hp1cf.i/09Dec2010.b/f1208010.d

Date : 08-DEC-2010 19:46

Client ID: 3

Sample Info: f1838-44-0.25;3

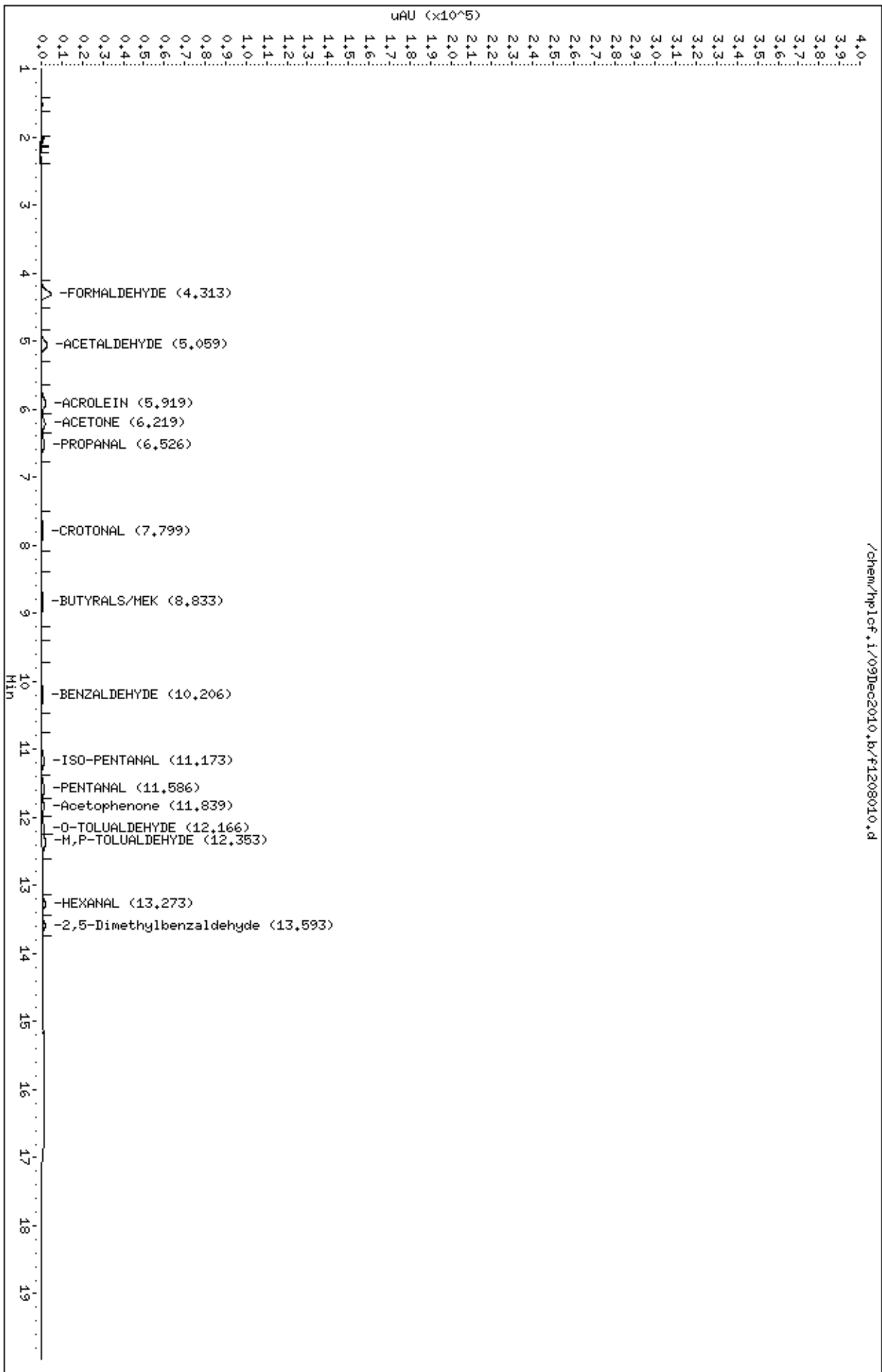
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



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

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
---------------	-------------------------

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (ng)	ON - COL (ng)
	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.313	4.313	0.000	33887	0.25000	0.249
3 ACETALDEHYDE	5.059	5.059	0.000	26126	0.25000	0.253
4 ACROLEIN	5.919	5.919	0.000	23665	0.25000	0.247
5 ACETONE	6.219	6.219	0.000	19853	0.25000	0.256
6 PROPANAL	6.526	6.526	0.000	19680	0.25000	0.258
7 CROTONAL	7.799	7.799	0.000	18884	0.25000	0.274
8 BUTYRALS/MEK	8.859	8.859	0.000	15829	0.25000	0.244
9 BENZALDEHYDE	10.213	10.213	0.000	12479	0.25000	0.261
10 ISO-PENTANAL	11.179	11.179	0.000	15294	0.25000	0.269
11 PENTANAL	11.593	11.593	0.000	15206	0.25000	0.269
12 O-TOLUALDEHYDE	12.166	12.166	0.000	10845	0.25000	0.256
13 M,P-TOLUALDEHYDE	12.353	12.353	0.000	21832	0.50000	0.555
14 HEXANAL	13.279	13.279	0.000	12487	0.25000	0.258
15 2,5-Dimethylbenzaldehyde	13.593	13.593	0.000	9255	0.25000	0.260
16 Acetophenone	11.846	11.846	0.000	11595	0.25000	0.276

Data File: /chem/hp1cf.i/09Dec2010.b/f1208009.d

Date : 08-DEC-2010 19:25

Client ID: 3

Sample Info: f1838-44-0.25;3

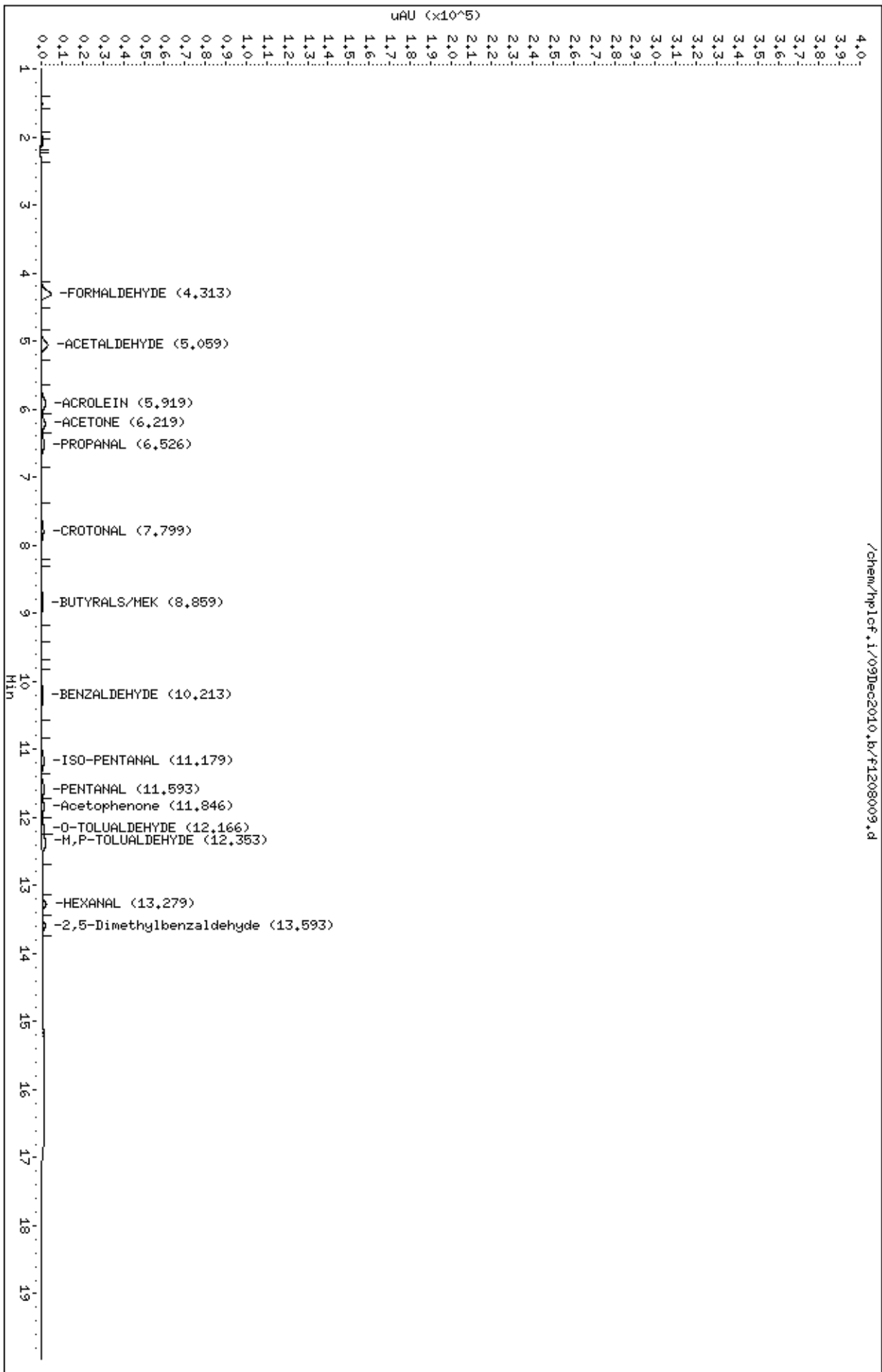
Purge Volume: 5.0

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/09Dec2010.b/f1208008.d

Lab Smp Id: 1838-44-0.25Client Smp ID: 3

Inj Date : 08-DEC-2010 19:05

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-0.25;3

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lizhangQuant Type: ESTD

Cal Date : 08-DEC-2010 19:46Cal File: f1208010.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.313	4.313	0.000	33175	0.25000	0.244
3 ACETALDEHYDE	5.060	5.060	0.000	25834	0.25000	0.250
4 ACROLEIN	5.920	5.920	0.000	23340	0.25000	0.244
5 ACETONE	6.220	6.220	0.000	19780	0.25000	0.255
6 PROPANAL	6.527	6.527	0.000	19528	0.25000	0.256
7 CROTONAL	7.813	7.813	0.000	18007	0.25000	0.261
8 BUTYRALS/MEK	8.847	8.847	0.000	16157	0.25000	0.250
9 BENZALDEHYDE	10.227	10.227	0.000	13189	0.25000	0.276
10 ISO-PENTANAL	11.180	11.180	0.000	15279	0.25000	0.269
11 PENTANAL	11.600	11.600	0.000	15166	0.25000	0.269
12 O-TOLUALDEHYDE	12.173	12.173	0.000	10942	0.25000	0.258
13 M,P-TOLUALDEHYDE	12.360	12.360	0.000	21701	0.50000	0.551
14 HEXANAL	13.280	13.280	0.000	12809	0.25000	0.265
15 2,5-Dimethylbenzaldehyde	13.600	13.600	0.000	9525	0.25000	0.268
16 Acetophenone	11.847	11.847	0.000	11262	0.25000	0.268

Data File: /chem/hp1cf.i/09Dec2010.b/f1208008.d

Date : 08-DEC-2010 19:05

Client ID: 3

Sample Info: f1838-44-0.25;3

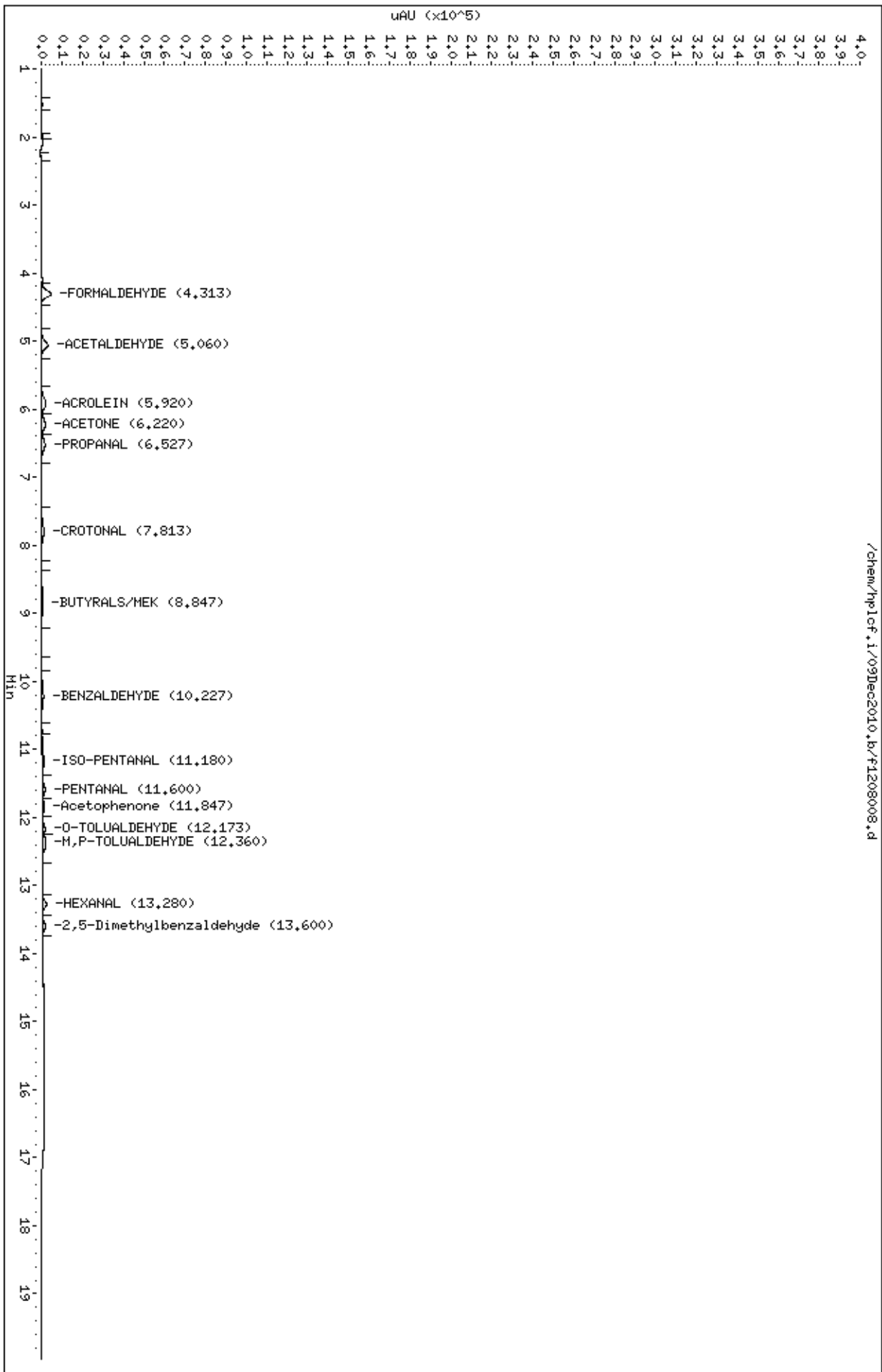
Purge Volume: 5.0

Column Phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



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

Cpnd Variable	Local Compound Variable
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Data File: /chem/hp1cf.i/09Dec2010.b/f1208013.d

Date : 08-DEC-2010 20:49

Client ID: 4

Sample Info: f1838-44-0.5;4

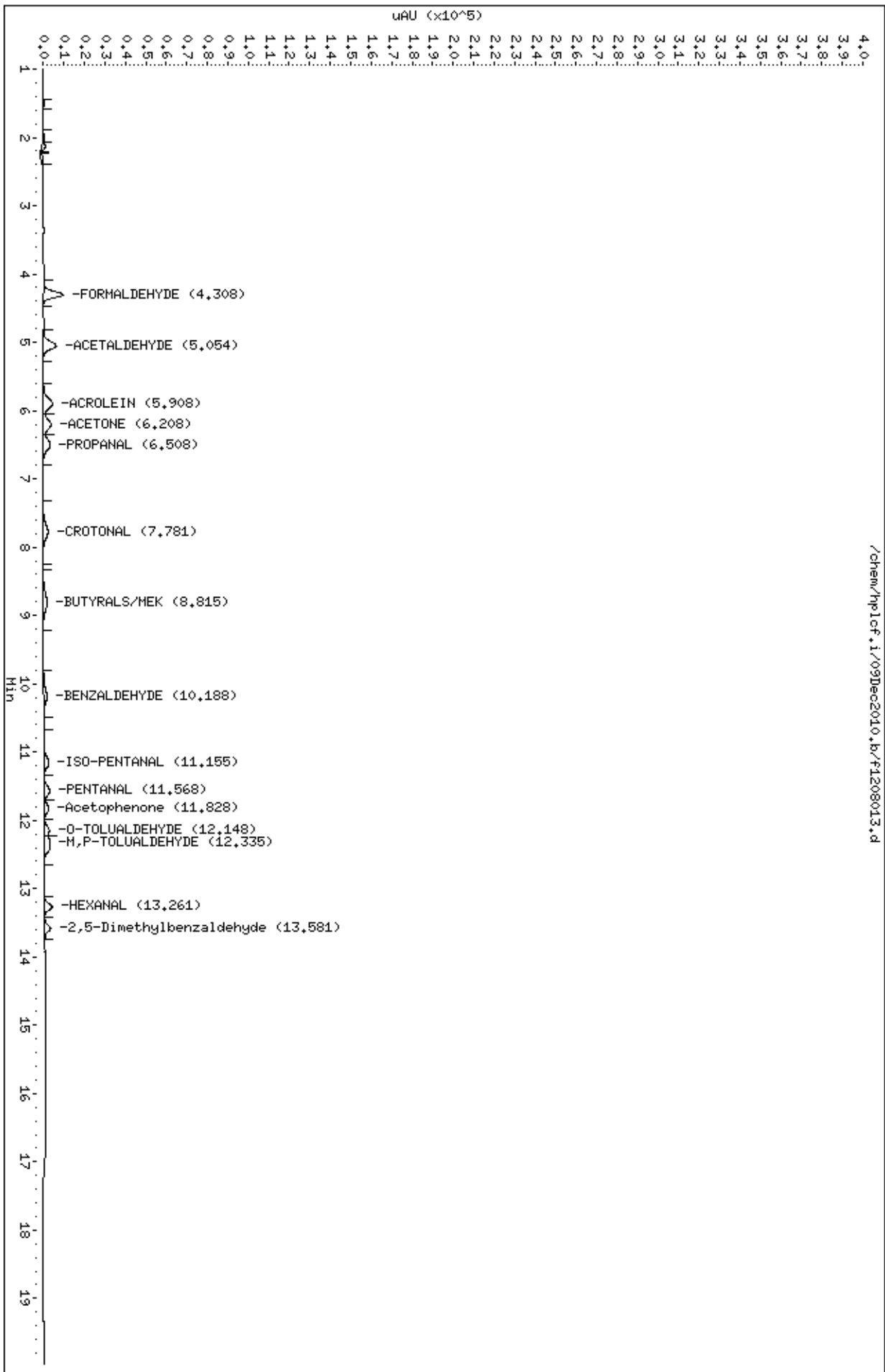
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208012.d

Lab Smp Id: 1838-44-0.5

Client Smp ID: 4

Inj Date : 08-DEC-2010 20:28

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-0.5;4

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 20:49

Cal File: f1208013.d

Als bottle: 1

Calibration Sample, Level: 4

Dil Factor: 1.000000

Integrator: Falcon

Compound Sublist: all.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.304	4.304	0.000	65465	0.50000	0.482
3 ACETALDEHYDE	5.051	5.051	0.000	51603	0.50000	0.500
4 ACROLEIN	5.904	5.904	0.000	47444	0.50000	0.496
5 ACETONE	6.204	6.204	0.000	39608	0.50000	0.511
6 PROPANAL	6.504	6.504	0.000	39060	0.50000	0.512
7 CROTONAL	7.771	7.771	0.000	35928	0.50000	0.521
8 BUTYRALS/MEK	8.811	8.811	0.000	32835	0.50000	0.507
9 BENZALDEHYDE	10.184	10.184	0.000	24241	0.50000	0.507
10 ISO-PENTANAL	11.157	11.157	0.000	28491	0.50000	0.501
11 PENTANAL	11.571	11.571	0.000	28136	0.50000	0.498
12 O-TOLUALDEHYDE	12.157	12.157	0.000	21820	0.50000	0.514
13 M,P-TOLUALDEHYDE	12.337	12.337	0.000	39802	1.00000	1.01
14 HEXANAL	13.264	13.264	0.000	24418	0.50000	0.505
15 2,5-Dimethylbenzaldehyde	13.584	13.584	0.000	18166	0.50000	0.511
16 Acetophenone	11.831	11.831	0.000	20969	0.50000	0.500

Data File: /chem/hp1cf.i/09Dec2010.b/f1208012.d

Date : 08-DEC-2010 20:28

Client ID: 4

Sample Info: f1838-44-0.5;4

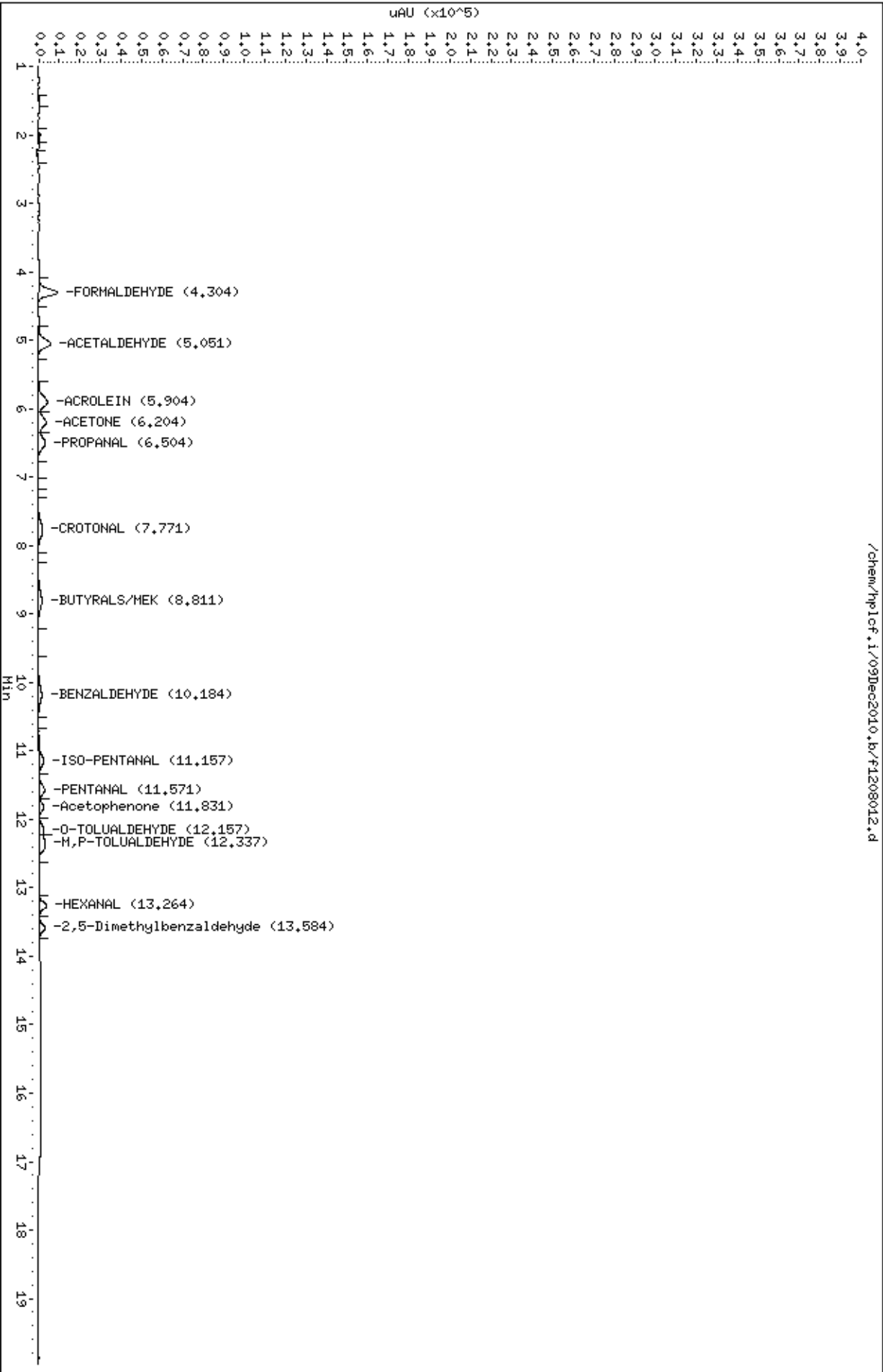
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208011.d

Lab Smp Id: 1838-44-0.5

Client Smp ID: 4

Inj Date : 08-DEC-2010 20:07

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-0.5;4

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 20:49

Cal File: f1208013.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.307	4.307	0.000	65465	0.50000	0.482
3 ACETALDEHYDE	5.061	5.061	0.000	52027	0.50000	0.504
4 ACROLEIN	5.921	5.921	0.000	48001	0.50000	0.501
5 ACETONE	6.221	6.221	0.000	39658	0.50000	0.512
6 PROPANAL	6.527	6.527	0.000	39113	0.50000	0.513
7 CROTONAL	7.814	7.814	0.000	35702	0.50000	0.518
8 BUTYRALS/MEK	8.847	8.847	0.000	32992	0.50000	0.510
9 BENZALDEHYDE	10.214	10.214	0.000	25785	0.50000	0.540
10 ISO-PENTANAL	11.174	11.174	0.000	30801	0.50000	0.542
11 PENTANAL	11.587	11.587	0.000	30107	0.50000	0.533
12 O-TOLUALDEHYDE	12.161	12.161	0.000	21674	0.50000	0.511
13 M,P-TOLUALDEHYDE	12.347	12.347	0.000	41453	1.00000	1.05
14 HEXANAL	13.274	13.274	0.000	24434	0.50000	0.506
15 2,5-Dimethylbenzaldehyde	13.594	13.594	0.000	18831	0.50000	0.530
16 Acetophenone	11.841	11.841	0.000	22268	0.50000	0.530

Data File: /chem/hp1cf.i/09Dec2010.b/f1208011.d

Date : 08-DEC-2010 20:07

Client ID: 4

Sample Info: f1838-44-0.5;4

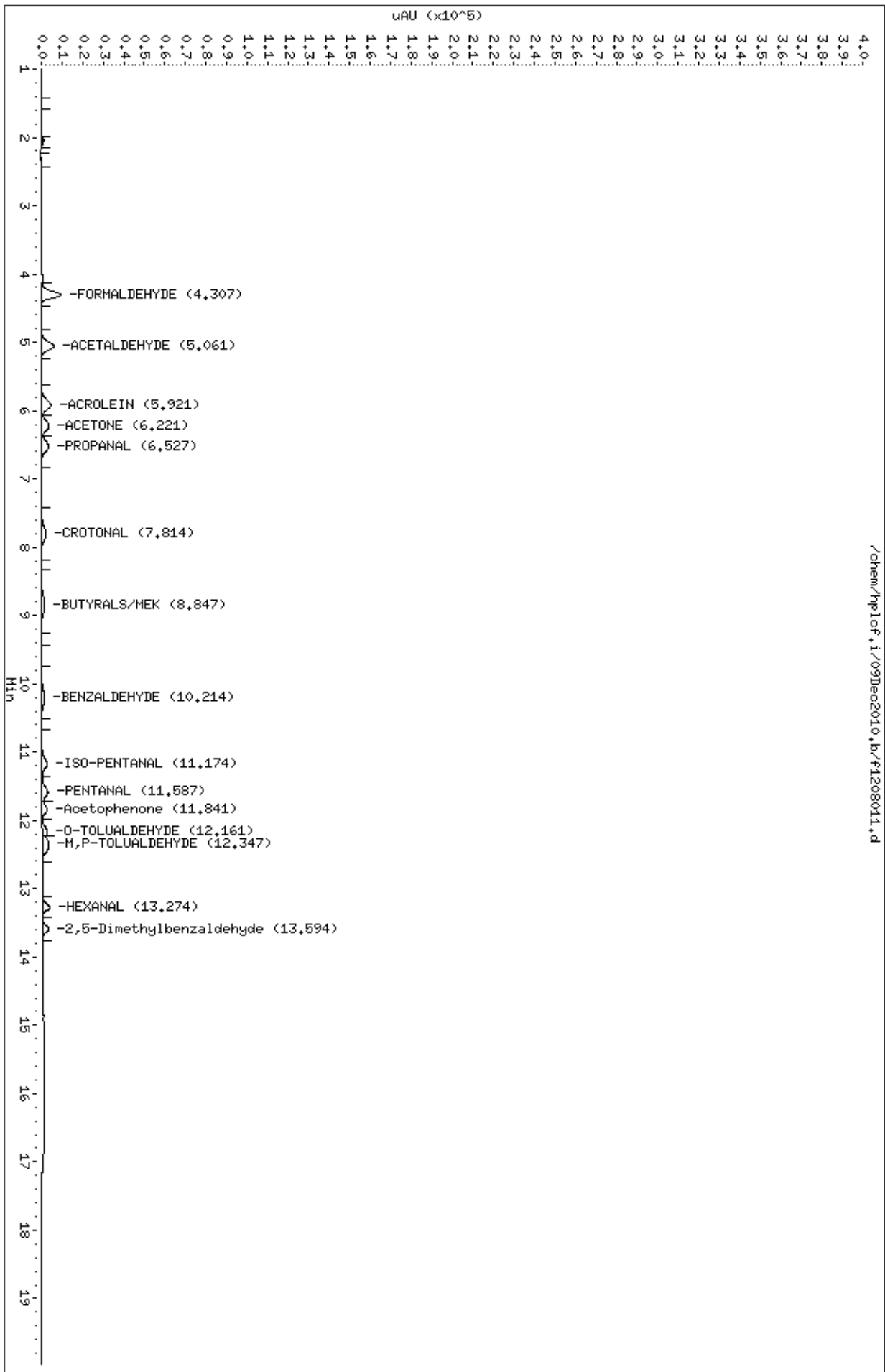
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208016.d

Lab Smp Id: 1838-44-1.0

Client Smp ID: 5

Inj Date : 08-DEC-2010 21:52

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-1.0;5

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 21:52

Cal File: f1208016.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.323	4.323	0.000	129087	1.00000	0.950
3 ACETALDEHYDE	5.076	5.076	0.000	100692	1.00000	0.976
4 ACROLEIN	5.936	5.936	0.000	92495	1.00000	0.966
5 ACETONE	6.236	6.236	0.000	76197	1.00000	0.983
6 PROPANAL	6.549	6.549	0.000	75430	1.00000	0.989
7 CROTONAL	7.836	7.836	0.000	67423	1.00000	0.978
8 BUTYRALS/MEK	8.889	8.889	0.000	63324	1.00000	0.978
9 BENZALDEHYDE	10.256	10.256	0.000	46659	1.00000	0.977
10 ISO-PENTANAL	11.203	11.203	0.000	53984	1.00000	0.950
11 PENTANAL	11.616	11.616	0.000	53769	1.00000	0.953
12 O-TOLUALDEHYDE	12.196	12.196	0.000	40284	1.00000	0.950
13 M,P-TOLUALDEHYDE	12.376	12.376	0.000	77815	2.00000	1.98
14 HEXANAL	13.296	13.296	0.000	47937	1.00000	0.992
15 2,5-Dimethylbenzaldehyde	13.616	13.616	0.000	35715	1.00000	1.00
16 Acetophenone	11.869	11.869	0.000	40446	1.00000	0.964

Data File: /chem/hp1cf.i/09Dec2010.b/f1208016.d

Date : 08-DEC-2010 21:52

Client ID: 5

Sample Info: f1838-44-1.0;5

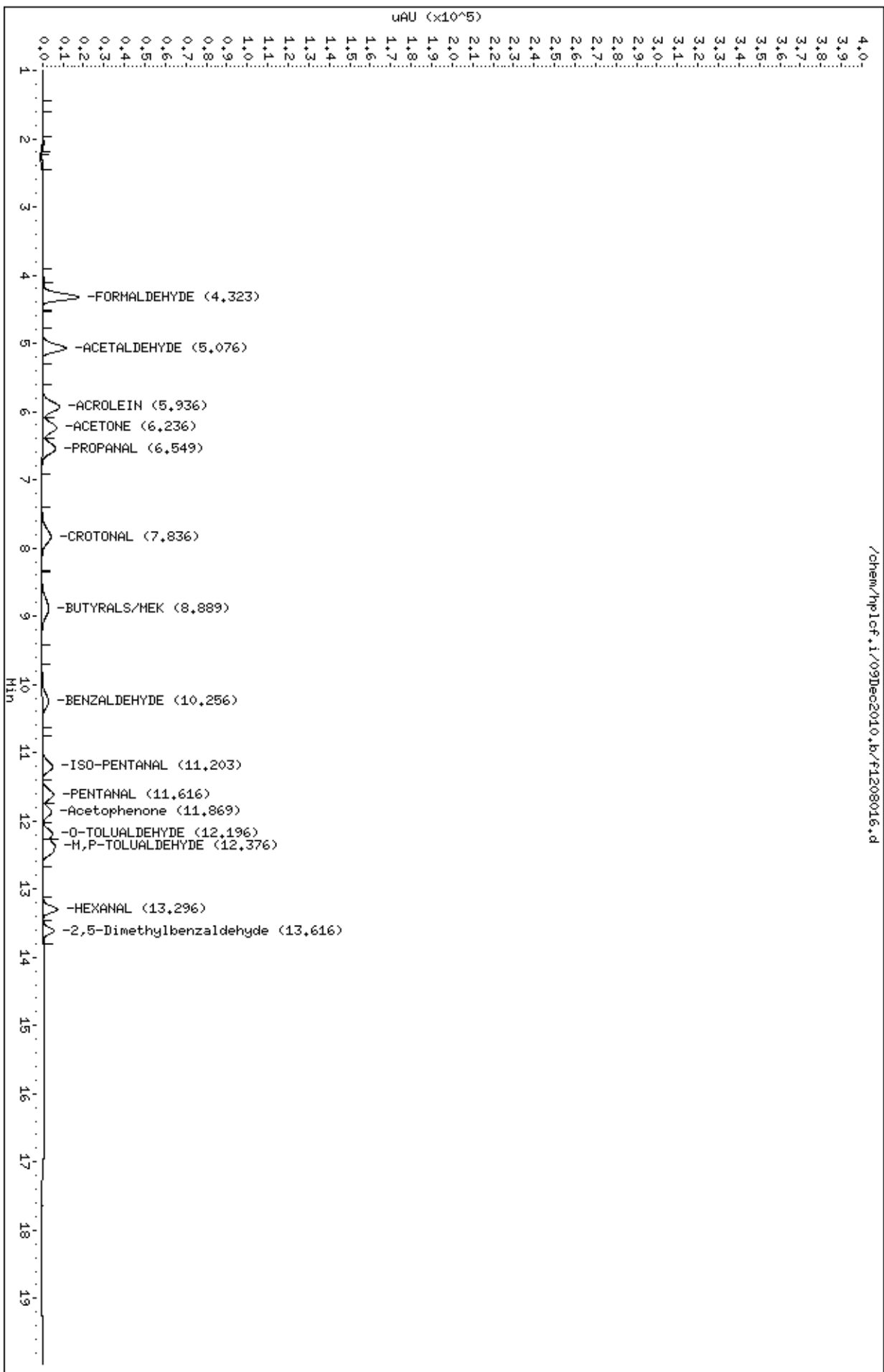
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208015.d

Lab Smp Id: 1838-44-1.0

Client Smp ID: 5

Inj Date : 08-DEC-2010 21:31

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-1.0;5

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 21:52

Cal File: f1208016.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT	ON - COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.319	4.319	0.000	135018	1.00000	0.993
3 ACETALDEHYDE	5.073	5.073	0.000	100784	1.00000	0.977
4 ACROLEIN	5.933	5.933	0.000	92898	1.00000	0.970
5 ACETONE	6.233	6.233	0.000	75724	1.00000	0.977
6 PROPANAL	6.540	6.540	0.000	76091	1.00000	0.998
7 CROTONAL	7.833	7.833	0.000	67519	1.00000	0.979
8 BUTYRALS/MEK	8.873	8.873	0.000	63468	1.00000	0.980
9 BENZALDEHYDE	10.239	10.239	0.000	46386	1.00000	0.971
10 ISO-PENTANAL	11.200	11.200	0.000	54530	1.00000	0.959
11 PENTANAL	11.606	11.606	0.000	53782	1.00000	0.953
12 O-TOLUALDEHYDE	12.186	12.186	0.000	41354	1.00000	0.975
13 M,P-TOLUALDEHYDE	12.366	12.366	0.000	78001	2.00000	1.98
14 HEXANAL	13.293	13.293	0.000	47610	1.00000	0.985
15 2,5-Dimethylbenzaldehyde	13.606	13.606	0.000	34723	1.00000	0.978
16 Acetophenone	11.866	11.866	0.000	40613	1.00000	0.968

Data File: /chem/hp1cf.i/09Dec2010.b/f1208015.d

Date : 08-DEC-2010 21:31

Client ID: 5

Sample Info: f1838-44-1.0;5

Purge Volume: 5.0

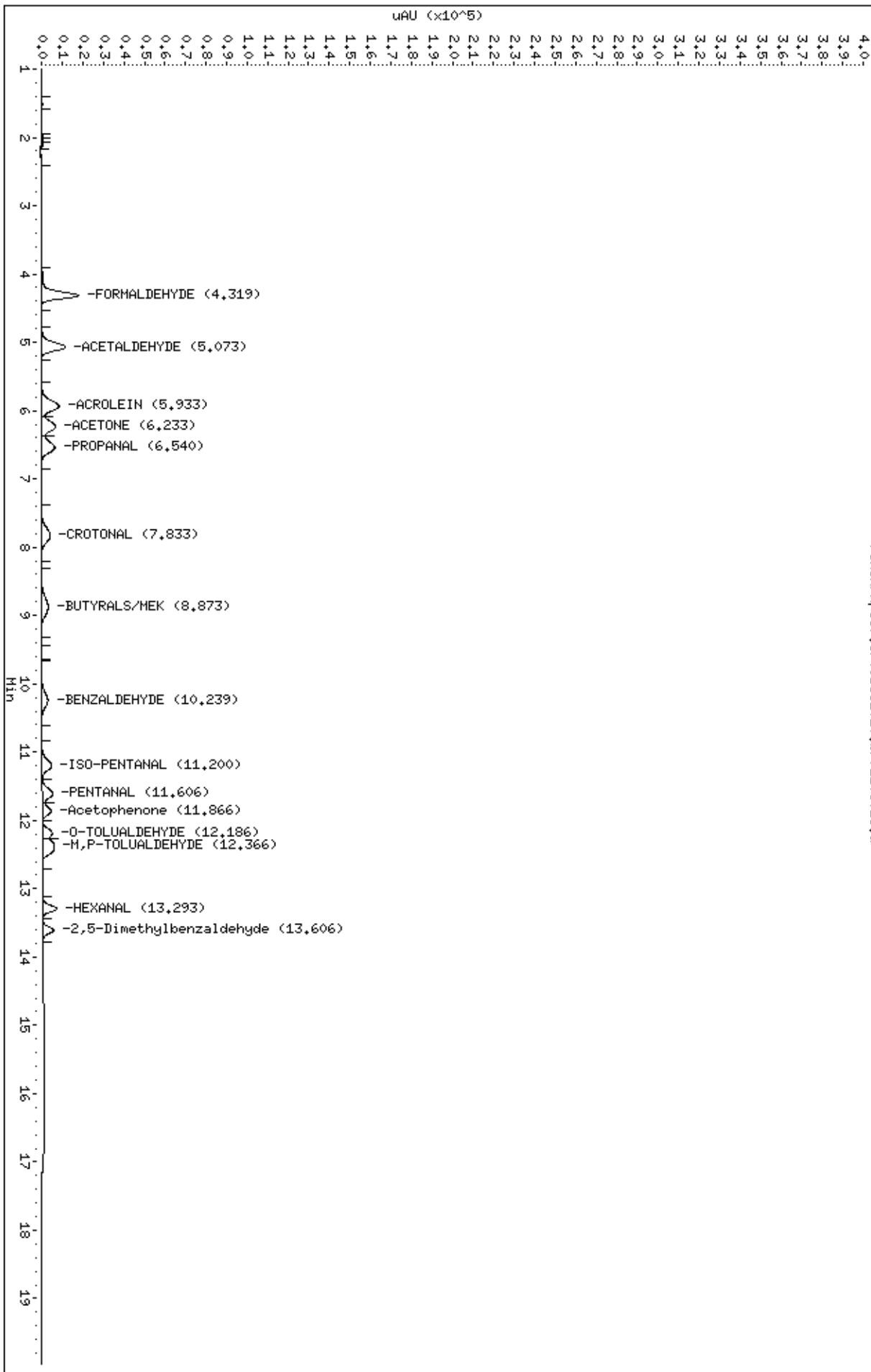
Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00

/chem/hp1cf.i/09Dec2010.b/f1208015.d



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208014.d

Lab Smp Id: 1838-44-1.0Client Smp ID: 5

Inj Date : 08-DEC-2010 21:10

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-1.0;5

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhangQuant Type: ESTD

Cal Date : 08-DEC-2010 21:52Cal File: f1208016.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.313	4.313	0.000	127855	1.00000	0.940
3 ACETALDEHYDE	5.066	5.066	0.000	99371	1.00000	0.964
4 ACRROLEIN	5.926	5.926	0.000	92146	1.00000	0.962
5 ACETONE	6.226	6.226	0.000	75789	1.00000	0.978
6 PROPANAL	6.533	6.533	0.000	74295	1.00000	0.974
7 CROTONAL	7.813	7.813	0.000	68791	1.00000	0.997
8 BUTYRALS/MEK	8.859	8.859	0.000	63211	1.00000	0.976
9 BENZALDEHYDE	10.226	10.226	0.000	48273	1.00000	1.01
10 ISO-PENTANAL	11.179	11.179	0.000	57014	1.00000	1.00
11 PENTANAL	11.593	11.593	0.000	55684	1.00000	0.987
12 O-TOLUALDEHYDE	12.173	12.173	0.000	41669	1.00000	0.982
13 M,P-TOLUALDEHYDE	12.359	12.359	0.000	77599	2.00000	1.97
14 HEXANAL	13.279	13.279	0.000	47699	1.00000	0.987
15 2,5-Dimethylbenzaldehyde	13.599	13.599	0.000	34833	1.00000	0.981
16 Acetophenone	11.846	11.846	0.000	41148	1.00000	0.980

Data File: /chem/hp1cf.i/09Dec2010.b/f1208014.d

Page 1

Date : 08-DEC-2010 21:10

Client ID: 5

Instrument: hp1cf.i

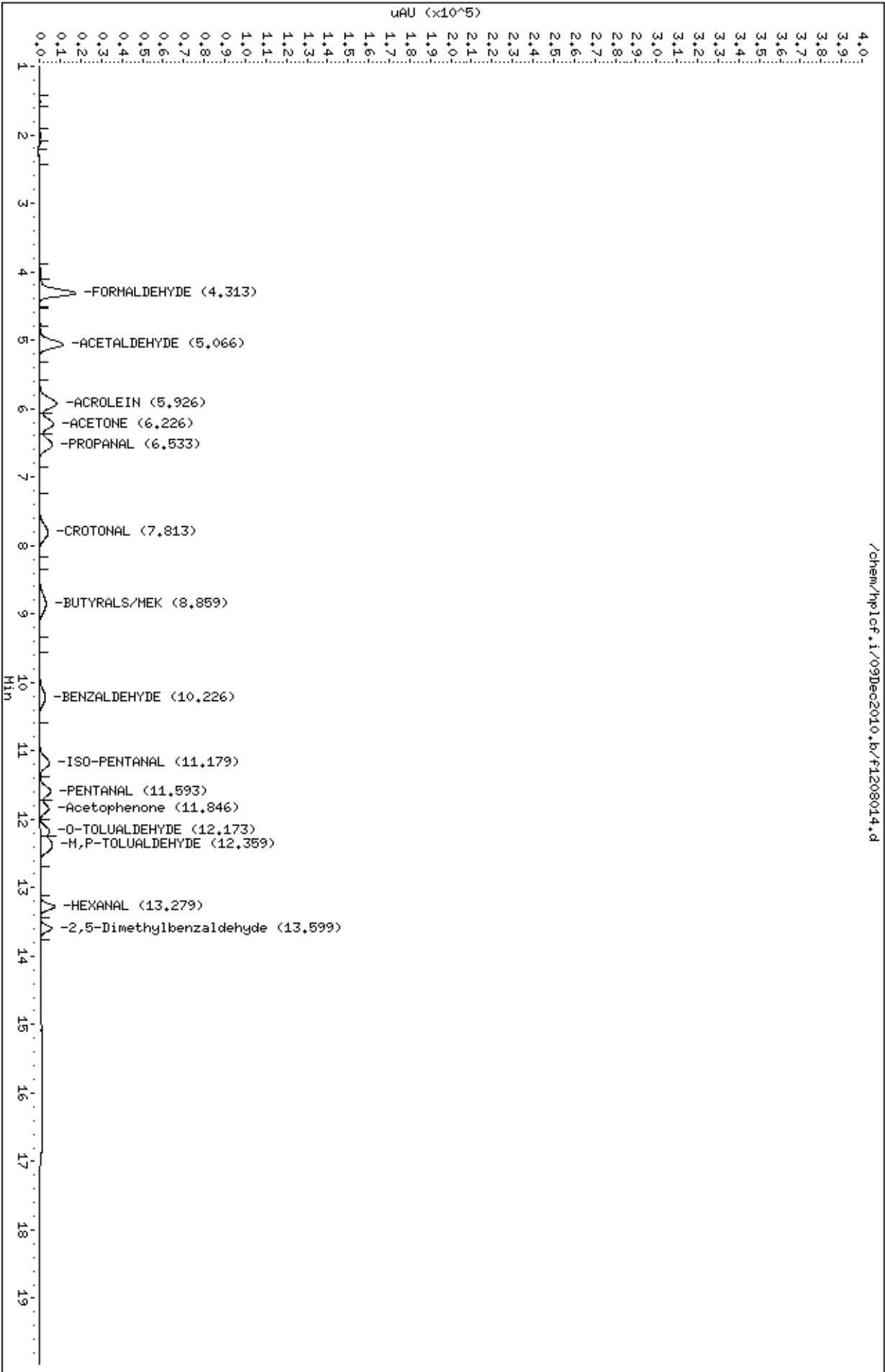
Sample Info: f1838-44-1.0;5

Purge Volume: 5.0

Operator: CRL

Column Phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208019.d

Lab Smp Id: 1838-44-4.0

Client Smp ID: 6

Inj Date : 08-DEC-2010 22:54

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-4.0;6

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 22:54

Cal File: f1208019.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (ng)	ON - COL (ng)
	==	=====	=====	=====	=====	=====
=====						
1 DNPH		Compound Not Detected.				
2 FORMALDEHYDE	4.299	4.299	0.000	545652	4.00000	4.01
3 ACETALDEHYDE	5.046	5.046	0.000	409541	4.00000	3.97
4 ACROLEIN	5.893	5.893	0.000	379371	4.00000	3.96
5 ACETONE	6.193	6.193	0.000	303043	4.00000	3.91
6 PROPANAL	6.493	6.493	0.000	299306	4.00000	3.92
7 CROTONAL	7.766	7.766	0.000	268683	4.00000	3.90
8 BUTYRALS/MEK	8.799	8.799	0.000	257023	4.00000	3.97
9 BENZALDEHYDE	10.186	10.186	0.000	184425	4.00000	3.86
10 ISO-PENTANAL	11.153	11.153	0.000	217395	4.00000	3.82
11 PENTANAL	11.573	11.573	0.000	216555	4.00000	3.84
12 O-TOLUALDEHYDE	12.159	12.159	0.000	166256	4.00000	3.92
13 M,P-TOLUALDEHYDE	12.339	12.339	0.000	304510	8.00000	7.74
14 HEXANAL	13.273	13.273	0.000	190970	4.00000	3.95
15 2,5-Dimethylbenzaldehyde	13.593	13.593	0.000	138898	4.00000	3.91
16 Acetophenone	11.833	11.833	0.000	161983	4.00000	3.86

Data File: /chem/hp1cf.i/09Dec2010.b/f1208019.d

Date : 08-DEC-2010 22:54

Client ID: 6

Sample Info: f1838-44-4.016

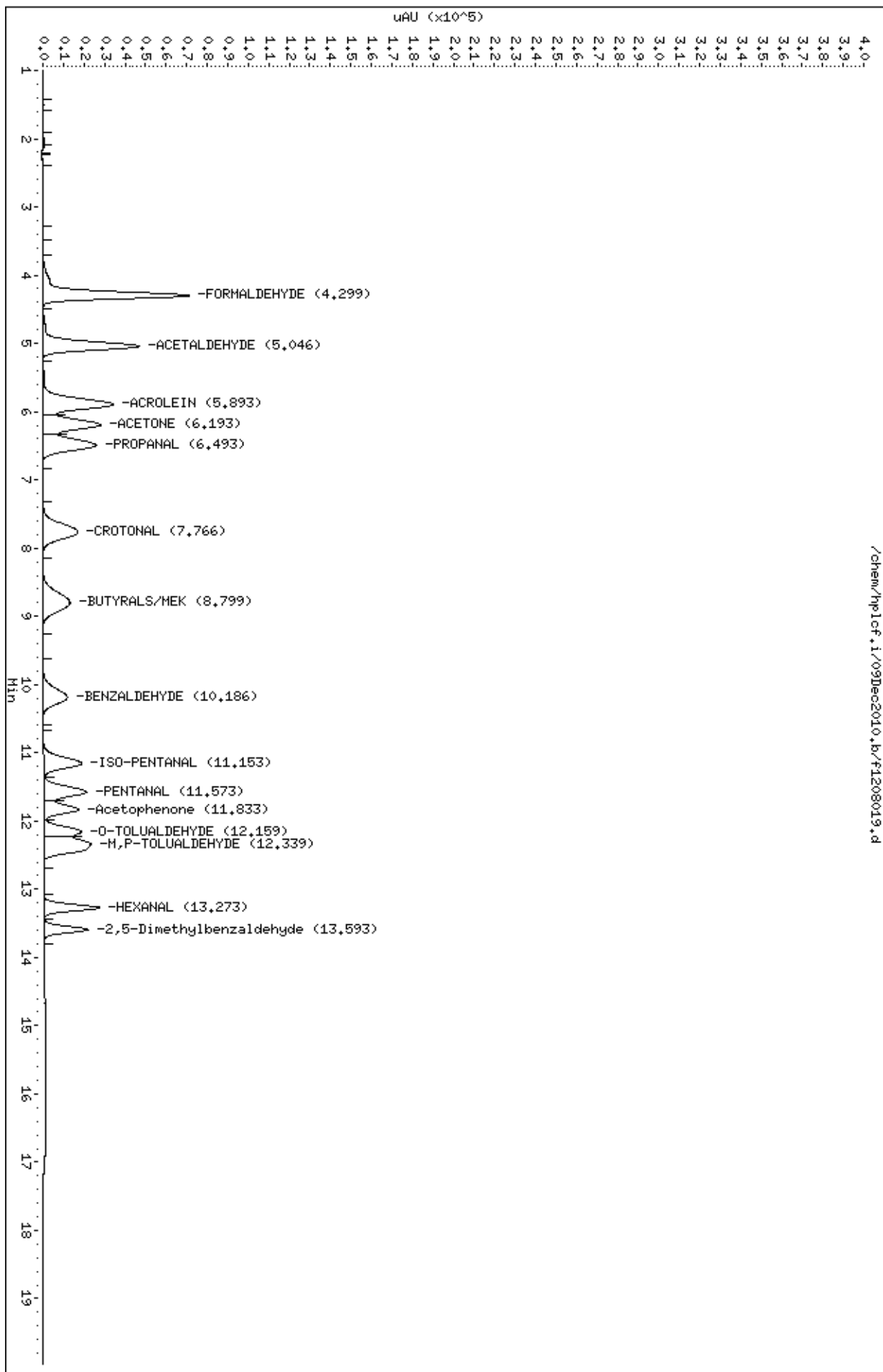
Purge Volume: 5.0

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/09Dec2010.b/f1208018.d

Lab Smp Id: 1838-44-4.0Client Smp ID: 6

Inj Date : 08-DEC-2010 22:33

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-4.0;6

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhangQuant Type: ESTD

Cal Date : 08-DEC-2010 22:54Cal File: f1208019.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
	==	=====	=====	=====	(ng)	(ng)
=====					=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.313	4.313	0.000	547875	4.00000	4.03
3 ACETALDEHYDE	5.059	5.059	0.000	412904	4.00000	4.00
4 ACROLEIN	5.919	5.919	0.000	385043	4.00000	4.02
5 ACETONE	6.219	6.219	0.000	308804	4.00000	3.98
6 PROPANAL	6.526	6.526	0.000	303817	4.00000	3.98
7 CROTONAL	7.806	7.806	0.000	270027	4.00000	3.92
8 BUTYRALS/MEK	8.846	8.846	0.000	255777	4.00000	3.95
9 BENZALDEHYDE	10.219	10.219	0.000	186384	4.00000	3.90
10 ISO-PENTANAL	11.173	11.173	0.000	221995	4.00000	3.90
11 PENTANAL	11.586	11.586	0.000	220306	4.00000	3.90
12 O-TOLUALDEHYDE	12.166	12.166	0.000	165914	4.00000	3.91
13 M,P-TOLUALDEHYDE	12.346	12.346	0.000	307319	8.00000	7.81
14 HEXANAL	13.273	13.273	0.000	190490	4.00000	3.94
15 2,5-Dimethylbenzaldehyde	13.593	13.593	0.000	139497	4.00000	3.93
16 Acetophenone	11.839	11.839	0.000	163365	4.00000	3.89

Data File: /chem/hp1cf.i/09Dec2010.b/f1208018.d

Date : 08-DEC-2010 22:33

Client ID: 6

Sample Info: f1838-44-4.016

Purge Volume: 5.0

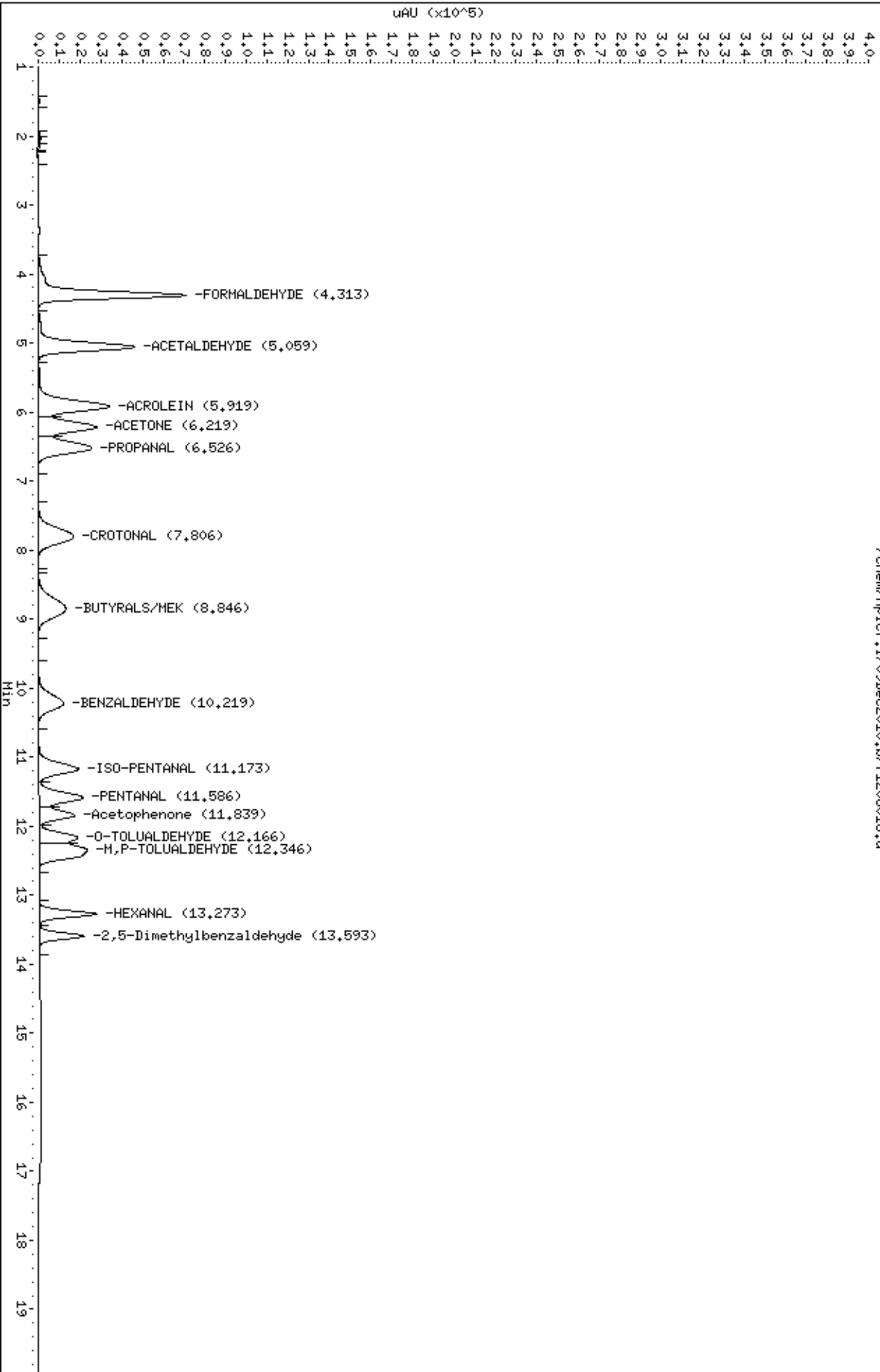
Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00

/chem/hp1cf.i/09Dec2010.b/f1208018.d



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208017.d

Lab Smp Id: 1838-44-4.0

Client Smp ID: 6

Inj Date : 08-DEC-2010 22:13

Operator : CRL

Inst ID: hp1cf.i

Smp Info : ;1838-44-4.0;6

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:16 lzhang

Quant Type: ESTD

Cal Date : 08-DEC-2010 22:54

Cal File: f1208019.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (ng)	ON - COL (ng)
	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.319	4.319	0.000	546298	4.00000	4.02
3 ACETALDEHYDE	5.072	5.072	0.000	410758	4.00000	3.98
4 ACROLEIN	5.932	5.932	0.000	387131	4.00000	4.04
5 ACETONE	6.232	6.232	0.000	303046	4.00000	3.91
6 PROPANAL	6.538	6.538	0.000	299872	4.00000	3.93
7 CROTONAL	7.832	7.832	0.000	268696	4.00000	3.90
8 BUTYRALS/MEK	8.879	8.879	0.000	254306	4.00000	3.93
9 BENZALDEHYDE	10.245	10.245	0.000	182791	4.00000	3.83
10 ISO-PENTANAL	11.198	11.198	0.000	218374	4.00000	3.84
11 PENTANAL	11.612	11.612	0.000	218467	4.00000	3.87
12 O-TOLUALDEHYDE	12.192	12.192	0.000	167200	4.00000	3.94
13 M,P-TOLUALDEHYDE	12.372	12.372	0.000	303083	8.00000	7.70
14 HEXANAL	13.292	13.292	0.000	190458	4.00000	3.94
15 2,5-Dimethylbenzaldehyde	13.612	13.612	0.000	139135	4.00000	3.92
16 Acetophenone	11.865	11.865	0.000	161312	4.00000	3.84

Data File: /chem/hp1cf.i/09Dec2010.b/f1208017.d

Date : 08-DEC-2010 22:13

Client ID: 6

Sample Info: f1838-44-4.016

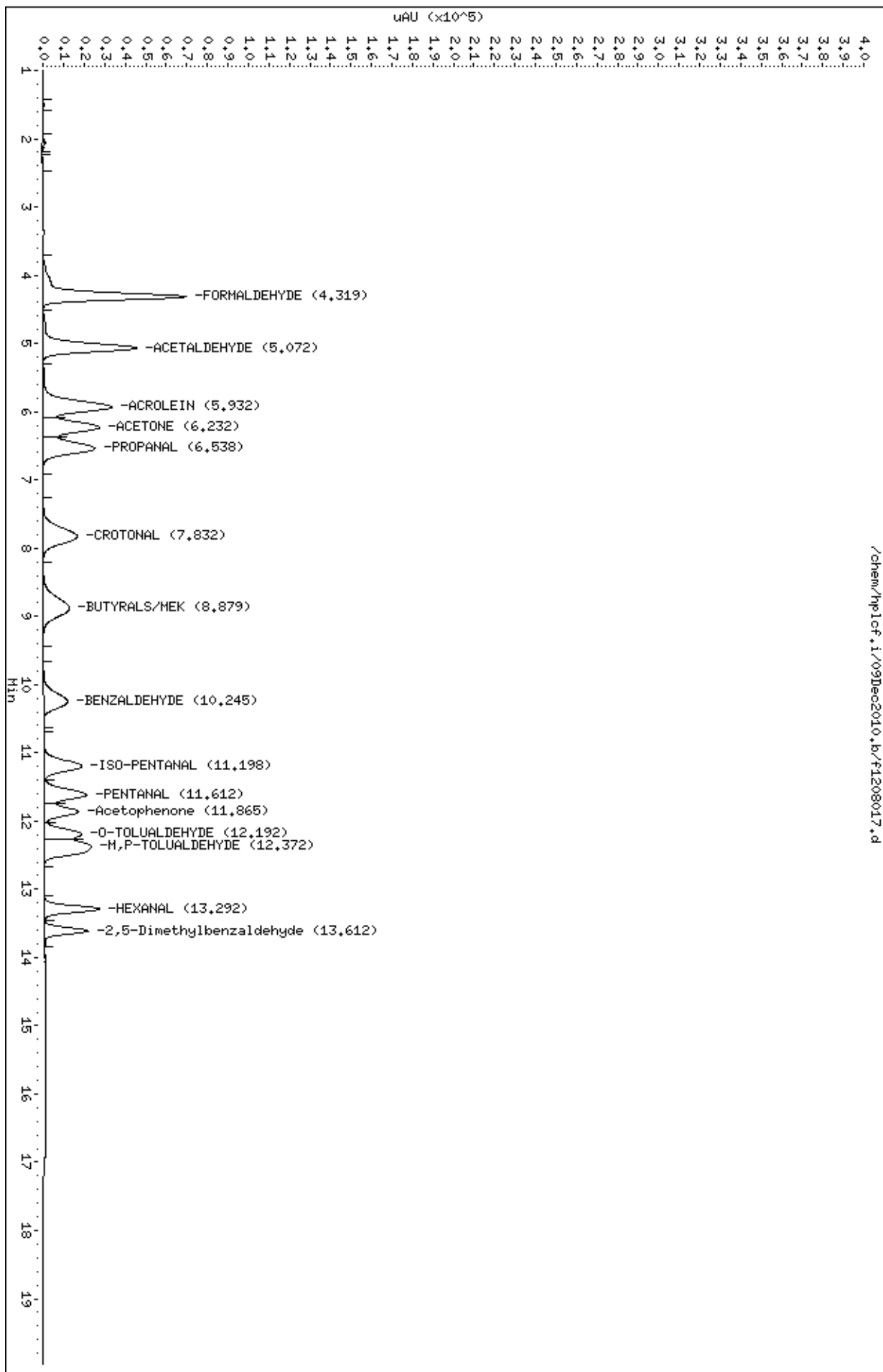
Purge Volume: 5.0

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/09Dec2010.b/f1208022.d

Lab Smp Id: 1838-44-10Client Smp ID: 7

Inj Date : 08-DEC-2010 23:57

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-10;7

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 08-DEC-2010 23:57Cal File: f1208022.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.312	4.312	0.000	1404928	10.0000	10.3
3 ACETALDEHYDE	5.066	5.066	0.000	1052392	10.0000	10.2
4 ACROLEIN	5.926	5.926	0.000	979912	10.0000	10.2
5 ACETONE	6.226	6.226	0.000	787568	10.0000	10.2
6 PROPANAL	6.532	6.532	0.000	774144	10.0000	10.2
7 CROTONAL	7.819	7.819	0.000	694755	10.0000	10.1
8 BUTYRALS/MEK	8.866	8.866	0.000	660615	10.0000	10.2
9 BENZALDEHYDE	10.232	10.232	0.000	475119	10.0000	9.94
10 ISO-PENTANAL	11.185	11.185	0.000	567984	10.0000	9.99
11 PENTANAL	11.599	11.599	0.000	566083	10.0000	10.0
12 O-TOLUALDEHYDE	12.179	12.179	0.000	429592	10.0000	10.1
13 M,P-TOLUALDEHYDE	12.359	12.359	0.000	785766	20.0000	20.0
14 HEXANAL	13.286	13.286	0.000	489941	10.0000	10.1
15 2,5-Dimethylbenzaldehyde	13.605	13.605	0.000	357228	10.0000	10.0
16 Acetophenone	11.852	11.852	0.000	420215	10.0000	10.0

Data File: /chem/hp1cf.i/09Dec2010.b/f1208022.d

Date : 08-DEC-2010 23:57

Client ID: 7

Sample Info: f1838-44-10;7

Purge Volume: 5.0

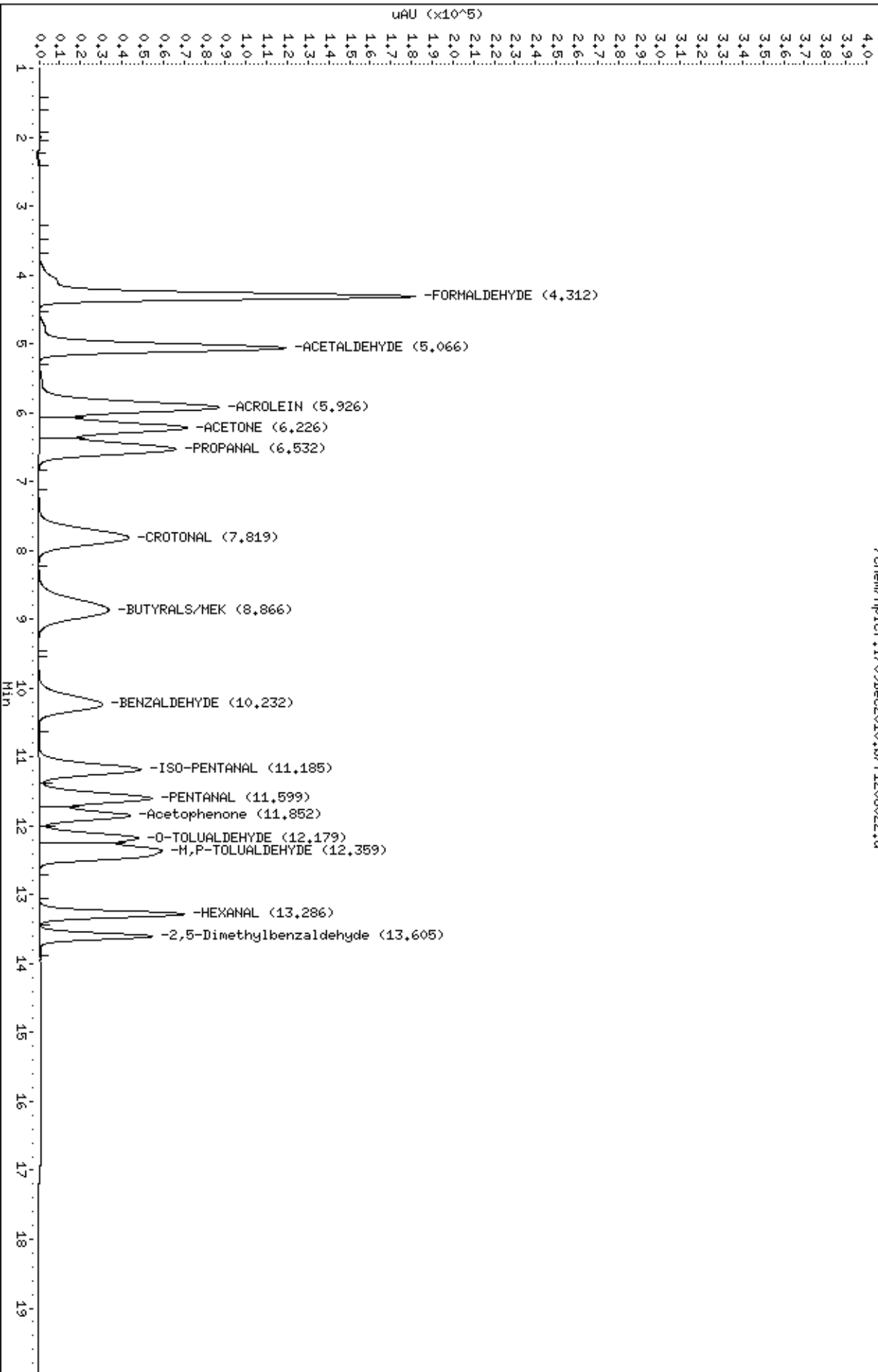
Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00

/chem/hp1cf.i/09Dec2010.b/f1208022.d



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208021.d

Lab Smp Id: 1838-44-10Client Smp ID: 7

Inj Date : 08-DEC-2010 23:36

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-10;7

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 08-DEC-2010 23:57Cal File: f1208022.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.317	4.317	0.000	1403329	10.0000	10.3
3 ACETALDEHYDE	5.064	5.064	0.000	1054354	10.0000	10.2
4 ACROLEIN	5.931	5.931	0.000	995229	10.0000	10.4
5 ACETONE	6.231	6.231	0.000	785559	10.0000	10.1
6 PROPANAL	6.531	6.531	0.000	758475	10.0000	9.95
7 CROTONAL	7.817	7.817	0.000	688692	10.0000	9.98
8 BUTYRALS/MEK	8.857	8.857	0.000	654545	10.0000	10.1
9 BENZALDEHYDE	10.231	10.231	0.000	470334	10.0000	9.84
10 ISO-PENTANAL	11.184	11.184	0.000	561220	10.0000	9.87
11 PENTANAL	11.597	11.597	0.000	563345	10.0000	9.98
12 O-TOLUALDEHYDE	12.177	12.177	0.000	426895	10.0000	10.1
13 M,P-TOLUALDEHYDE	12.357	12.357	0.000	781953	20.0000	19.9
14 HEXANAL	13.284	13.284	0.000	488383	10.0000	10.1
15 2,5-Dimethylbenzaldehyde	13.604	13.604	0.000	355755	10.0000	10.0
16 Acetophenone	11.851	11.851	0.000	414645	10.0000	9.88

Data File: /chem/hp1cf.i/09Dec2010.b/f1208021.d

Date : 08-DEC-2010 23:36

Client ID: 7

Sample Info: f1838-44-10;7

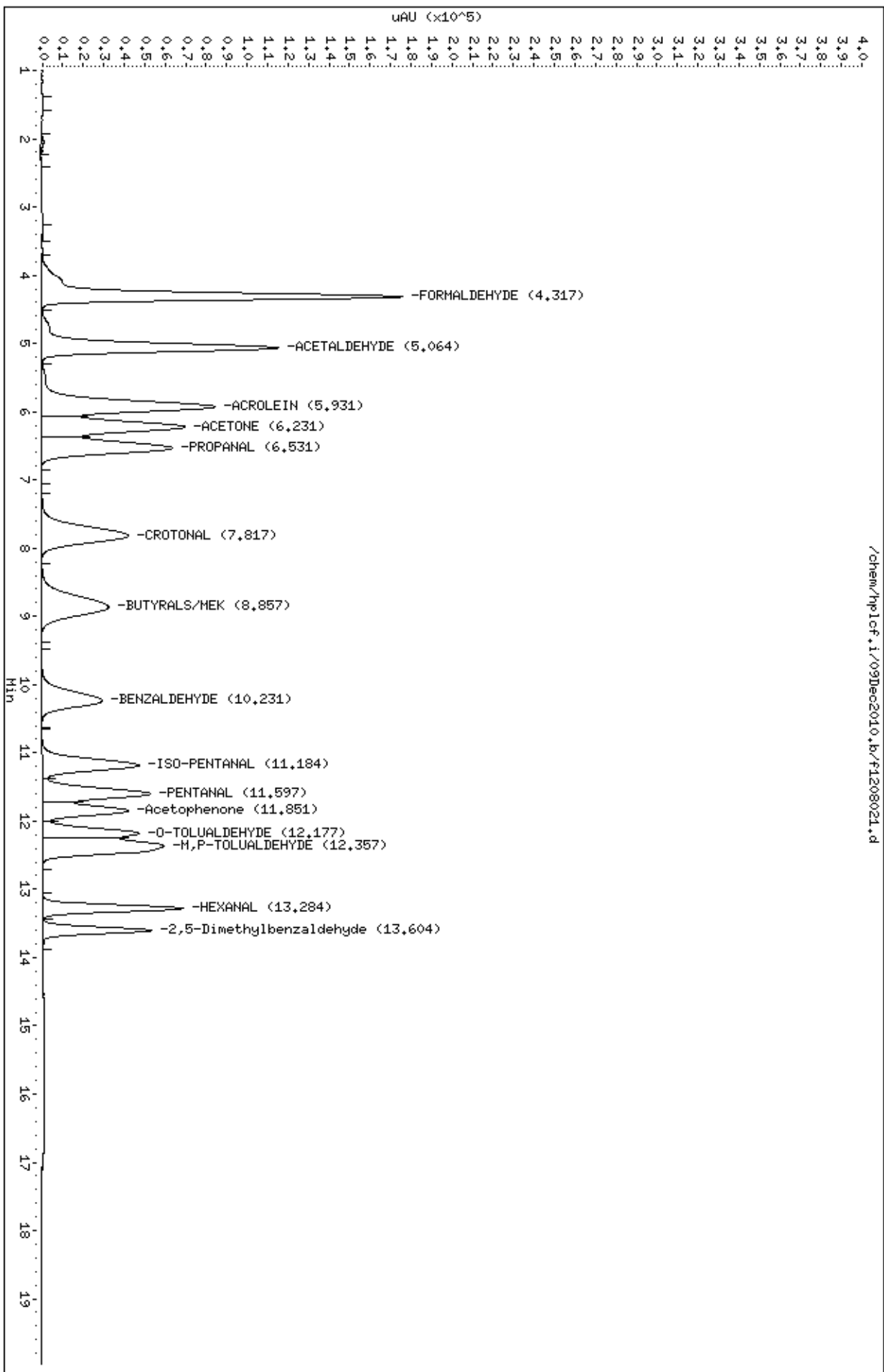
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



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

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable	Local Compound Variable
---------------	-------------------------

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.319	4.319	0.000	1396372	10.0000	10.3
3 ACETALDEHYDE	5.072	5.072	0.000	1044947	10.0000	10.1
4 ACROLEIN	5.932	5.932	0.000	984487	10.0000	10.3
5 ACETONE	6.232	6.232	0.000	774781	10.0000	10.0
6 PROPANAL	6.539	6.539	0.000	767008	10.0000	10.0
7 CROTONAL	7.825	7.825	0.000	686879	10.0000	9.96
8 BUTYRALS/MEK	8.872	8.872	0.000	654891	10.0000	10.1
9 BENZALDEHYDE	10.245	10.245	0.000	472142	10.0000	9.88
10 ISO-PENTANAL	11.199	11.199	0.000	565552	10.0000	9.95
11 PENTANAL	11.612	11.612	0.000	568548	10.0000	10.1
12 O-TOLUALDEHYDE	12.185	12.185	0.000	423463	10.0000	9.98
13 M,P-TOLUALDEHYDE	12.366	12.366	0.000	786186	20.0000	20.0
14 HEXANAL	13.292	13.292	0.000	487119	10.0000	10.1
15 2,5-Dimethylbenzaldehyde	13.605	13.605	0.000	354769	10.0000	9.99
16 Acetophenone	11.866	11.866	0.000	411903	10.0000	9.81

Data File: /chem/hp1cf.i/09Dec2010.b/f1208020.d

Date : 08-DEC-2010 23:15

Client ID: 7

Sample Info: f1838-44-10;7

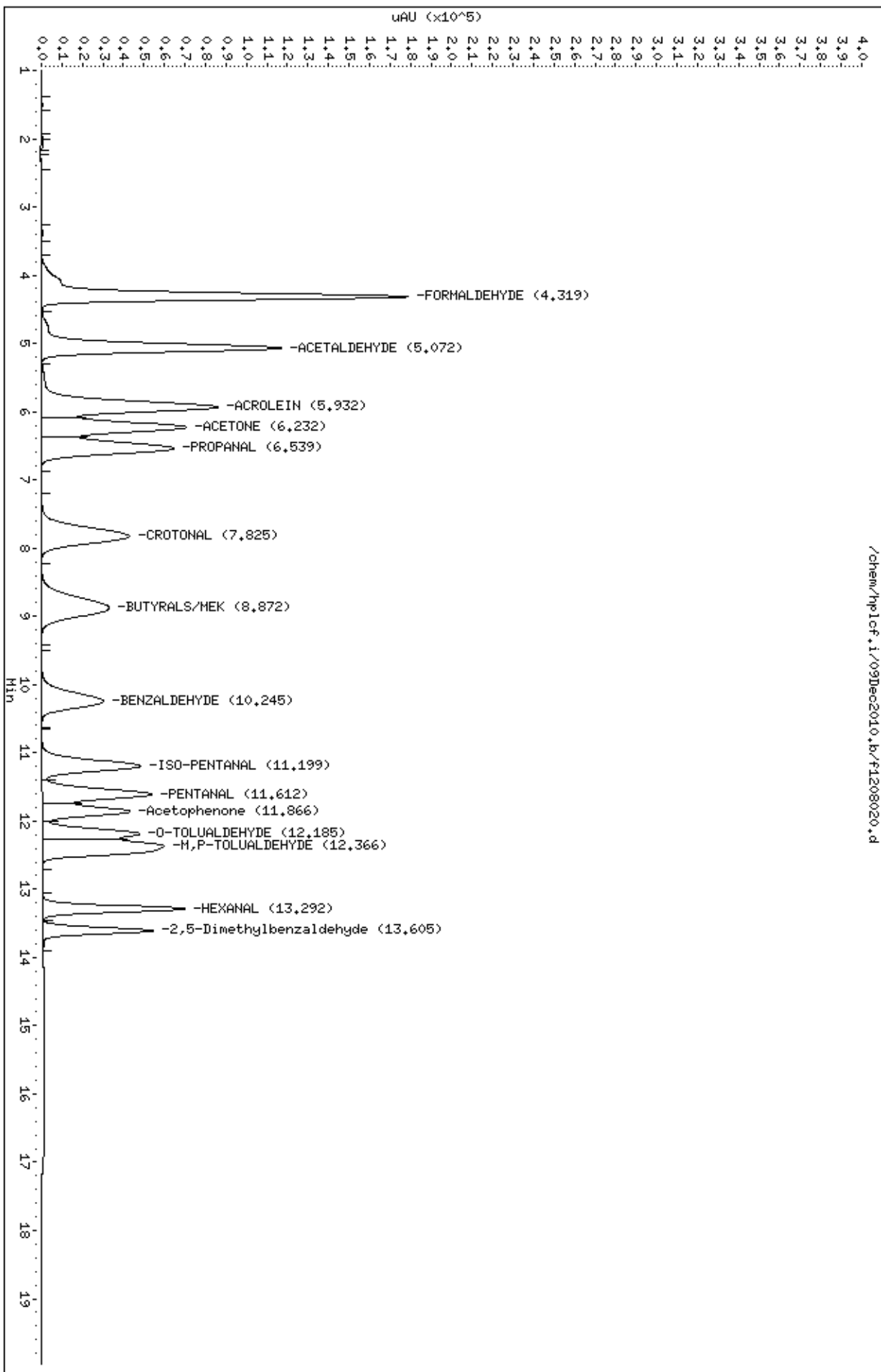
Purge Volume: 5.0

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/09Dec2010.b/f1208025.d

Lab Smp Id: 1838-44-20Client Smp ID: 8

Inj Date : 09-DEC-2010 01:00

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-20;8

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 01:00Cal File: f1208025.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.301	4.301	0.000	2725825	20.0000	20.0
3 ACETALDEHYDE	5.047	5.047	0.000	2038192	20.0000	19.8
4 ACROLEIN	5.894	5.894	0.000	1906788	20.0000	19.9
5 ACETONE	6.194	6.194	0.000	1536594	20.0000	19.8
6 PROPANAL	6.494	6.494	0.000	1488647	20.0000	19.5
7 CROTONAL	7.761	7.761	0.000	1347241	20.0000	19.5
8 BUTYRALS/MEK	8.794	8.794	0.000	1283063	20.0000	19.8
9 BENZALDEHYDE	10.174	10.174	0.000	920999	20.0000	19.3
10 ISO-PENTANAL	11.141	11.141	0.000	1101394	20.0000	19.4
11 PENTANAL	11.561	11.561	0.000	1100218	20.0000	19.5
12 O-TOLUALDEHYDE	12.147	12.147	0.000	847563	20.0000	20.0
13 M,P-TOLUALDEHYDE	12.327	12.327	0.000	1513878	40.0000	38.5
14 HEXANAL	13.254	13.254	0.000	951271	20.0000	19.7
15 2,5-Dimethylbenzaldehyde	13.574	13.574	0.000	692564	20.0000	19.5
16 Acetophenone	11.821	11.821	0.000	813618	20.0000	19.4

Data File: /chem/hp1cf.i/09Dec2010.b/f1208025.d

Date : 09-DEC-2010 01:00

Client ID: 8

Sample Info: f1838-44-2018

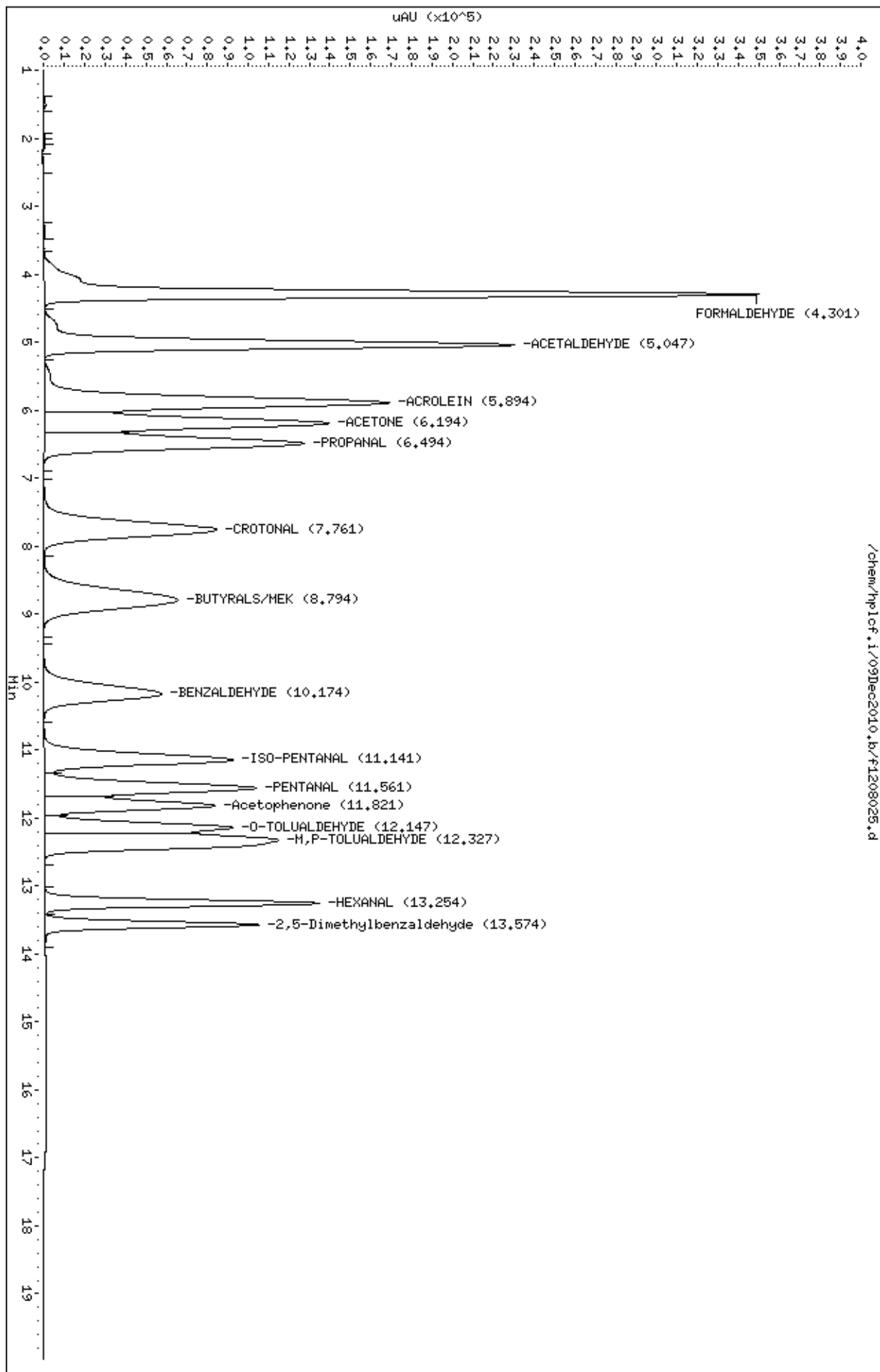
Purge Volume: 5.0

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/09Dec2010.b/f1208024.d

Lab Smp Id: 1838-44-20Client Smp ID: 8

Inj Date : 09-DEC-2010 00:39

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-20;8

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lizhangQuant Type: ESTD

Cal Date : 09-DEC-2010 01:00Cal File: f1208025.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.303	4.303	0.000	2725713	20.0000	20.0
3 ACETALDEHYDE	5.043	5.043	0.000	2041390	20.0000	19.8
4 ACROLEIN	5.896	5.896	0.000	1907579	20.0000	19.9
5 ACETONE	6.196	6.196	0.000	1521125	20.0000	19.6
6 PROPANAL	6.496	6.496	0.000	1507144	20.0000	19.8
7 CROTONAL	7.763	7.763	0.000	1348989	20.0000	19.6
8 BUTYRALS/MEK	8.789	8.789	0.000	1285143	20.0000	19.8
9 BENZALDEHYDE	10.169	10.169	0.000	921135	20.0000	19.3
10 ISO-PENTANAL	11.136	11.136	0.000	1099897	20.0000	19.3
11 PENTANAL	11.549	11.549	0.000	1105763	20.0000	19.6
12 O-TOLUALDEHYDE	12.136	12.136	0.000	832464	20.0000	19.6
13 M,P-TOLUALDEHYDE	12.316	12.316	0.000	1526243	40.0000	38.8
14 HEXANAL	13.243	13.243	0.000	950651	20.0000	19.7
15 2,5-Dimethylbenzaldehyde	13.569	13.569	0.000	691308	20.0000	19.5
16 Acetophenone	11.809	11.809	0.000	809592	20.0000	19.3

Data File: /chem/hp1cf.i/09Dec2010.b/f1208024.d

Date : 09-DEC-2010 00:39

Client ID: 8

Sample Info: f1838-44-2018

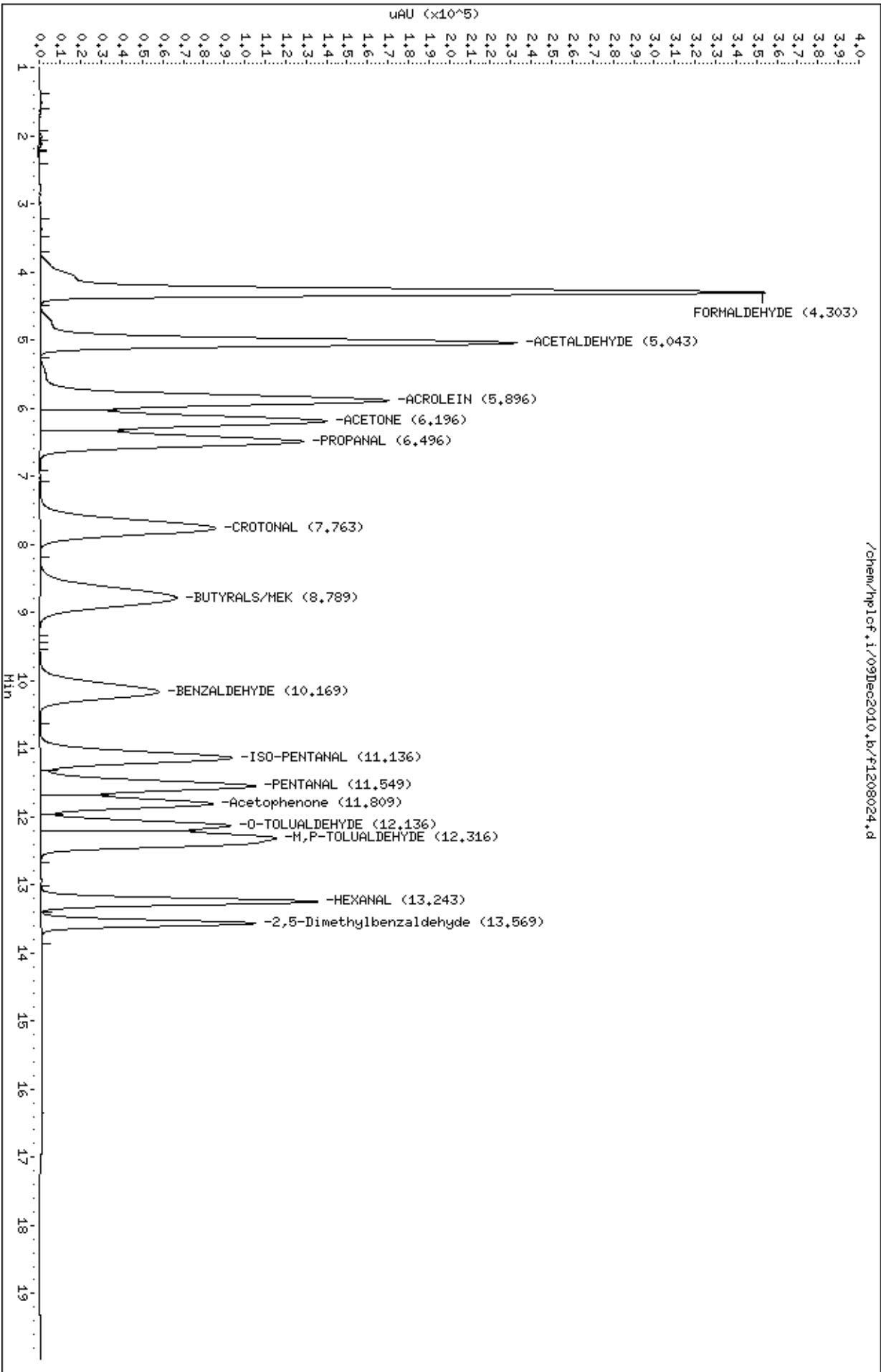
Purge Volume: 5.0

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/09Dec2010.b/f1208023.d

Lab Smp Id: 1838-44-20Client Smp ID: 8

Inj Date : 09-DEC-2010 00:18

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-20;8

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 01:00Cal File: f1208025.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.311	4.311	0.000	2726858	20.0000	20.0
3 ACETALDEHYDE	5.064	5.064	0.000	2042359	20.0000	19.8
4 ACROLEIN	5.924	5.924	0.000	1906021	20.0000	19.9
5 ACETONE	6.224	6.224	0.000	1529809	20.0000	19.7
6 PROPANAL	6.531	6.531	0.000	1499358	20.0000	19.7
7 CROTONAL	7.811	7.811	0.000	1347558	20.0000	19.5
8 BUTYRALS/MEK	8.851	8.851	0.000	1284216	20.0000	19.8
9 BENZALDEHYDE	10.224	10.224	0.000	920875	20.0000	19.3
10 ISO-PENTANAL	11.184	11.184	0.000	1100658	20.0000	19.4
11 PENTANAL	11.598	11.598	0.000	1102549	20.0000	19.5
12 O-TOLUALDEHYDE	12.178	12.178	0.000	831298	20.0000	19.6
13 M,P-TOLUALDEHYDE	12.358	12.358	0.000	1527071	40.0000	38.8
14 HEXANAL	13.284	13.284	0.000	950693	20.0000	19.7
15 2,5-Dimethylbenzaldehyde	13.598	13.598	0.000	691168	20.0000	19.5
16 Acetophenone	11.851	11.851	0.000	811179	20.0000	19.3

Data File: /chem/hp1cf.i/09Dec2010.b/f1208023.d

Date : 09-DEC-2010 00:18

Client ID: 8

Sample Info: J1838-44-2018

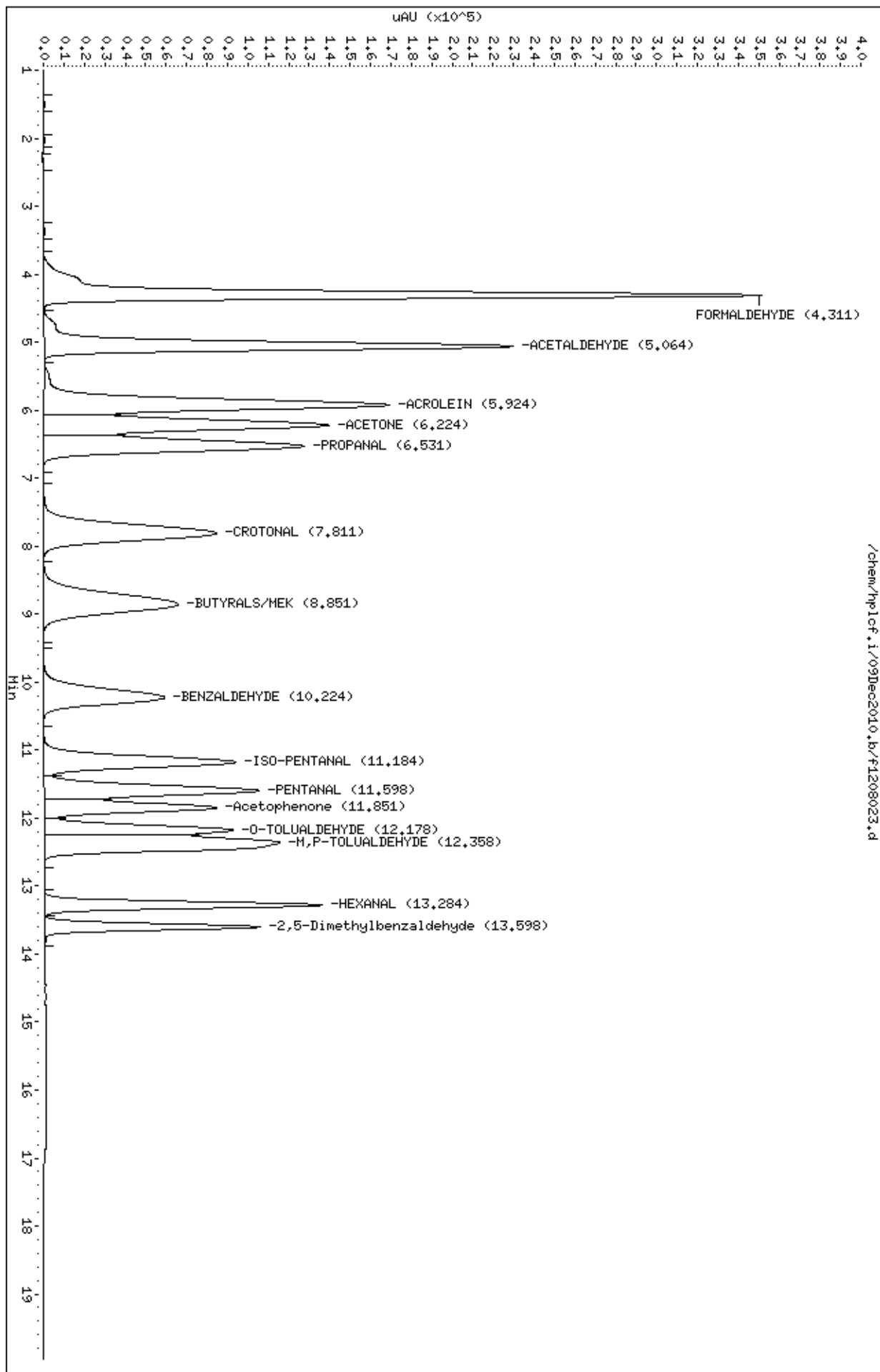
Purge Volume: 5.0

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/09Dec2010.b/f1208028.d

Lab Smp Id: 1838-44-50Client Smp ID: 9

Inj Date : 09-DEC-2010 02:02

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-50;9

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 02:02Cal File: f1208028.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.304	4.304	0.000	6901360	50.0000	50.8
3 ACETALDEHYDE	5.044	5.044	0.000	5174769	50.0000	50.2
4 ACROLEIN	5.897	5.897	0.000	4841041	50.0000	50.6
5 ACETONE	6.191	6.191	0.000	3865247	50.0000	49.9
6 PROPANAL	6.490	6.490	0.000	3808026	50.0000	49.9
7 CROTONAL	7.757	7.757	0.000	3422305	50.0000	49.6
8 BUTYRALS/MEK	8.784	8.784	0.000	3264167	50.0000	50.4
9 BENZALDEHYDE	10.164	10.164	0.000	2333209	50.0000	48.8
10 ISO-PENTANAL	11.130	11.130	0.000	2788925	50.0000	49.0
11 PENTANAL	11.550	11.550	0.000	2802054	50.0000	49.6
12 O-TOLUALDEHYDE	12.130	12.130	0.000	2081580	50.0000	49.1
13 M,P-TOLUALDEHYDE	12.317	12.317	0.000	3897742	100.000	99.0
14 HEXANAL	13.244	13.244	0.000	2399580	50.0000	49.6
15 2,5-Dimethylbenzaldehyde	13.564	13.564	0.000	1738423	50.0000	48.9
16 Acetophenone	11.804	11.804	0.000	2053617	50.0000	48.9

Data File: /chem/hplcf.i/09Dec2010.b/f1208028.d

Date : 09-DEC-2010 02:02

Client ID: 9

Sample Info: f1838-44-50;9

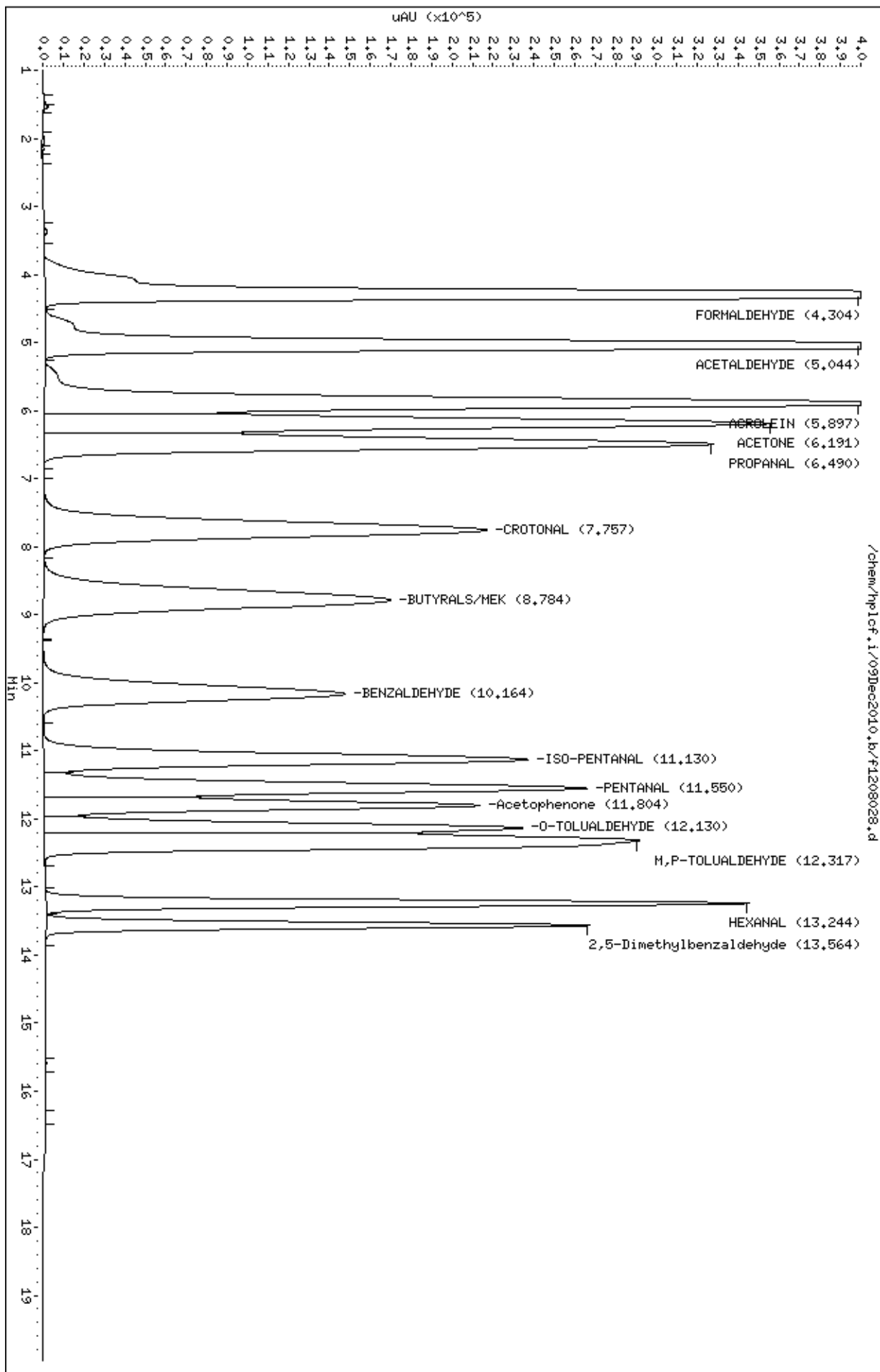
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208027.d

Lab Smp Id: 1838-44-50

Client Smp ID: 9

Inj Date : 09-DEC-2010 01:42

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-44-50;9

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhang

Quant Type: ESTD

Cal Date : 09-DEC-2010 02:02

Cal File: f1208028.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 * CpndVariable

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL - AMT (ng)	ON - COL (ng)
	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.301	4.301	0.000	6902720	50.0000	50.8
3 ACETALDEHYDE	5.048	5.048	0.000	5172031	50.0000	50.2
4 ACROLEIN	5.894	5.894	0.000	4858991	50.0000	50.8
5 ACETONE	6.194	6.194	0.000	3864943	50.0000	49.9
6 PROPANAL	6.494	6.494	0.000	3793793	50.0000	49.8
7 CROTONAL	7.761	7.761	0.000	3424062	50.0000	49.6
8 BUTYRALS/MEK	8.781	8.781	0.000	3263628	50.0000	50.4
9 BENZALDEHYDE	10.154	10.154	0.000	2332501	50.0000	48.8
10 ISO-PENTANAL	11.128	11.128	0.000	2790492	50.0000	49.1
11 PENTANAL	11.541	11.541	0.000	2805753	50.0000	49.7
12 O-TOLUALDEHYDE	12.134	12.134	0.000	2130933	50.0000	50.2
13 M,P-TOLUALDEHYDE	12.314	12.314	0.000	3847541	100.000	97.8
14 HEXANAL	13.248	13.248	0.000	2400823	50.0000	49.7
15 2,5-Dimethylbenzaldehyde	13.568	13.568	0.000	1738892	50.0000	49.0
16 Acetophenone	11.801	11.801	0.000	2050493	50.0000	48.8

Data File: /chem/hp1cf.i/09Dec2010.b/f1208027.d

Date : 09-DEC-2010 01:42

Client ID: 9

Sample Info: f1838-44-5019

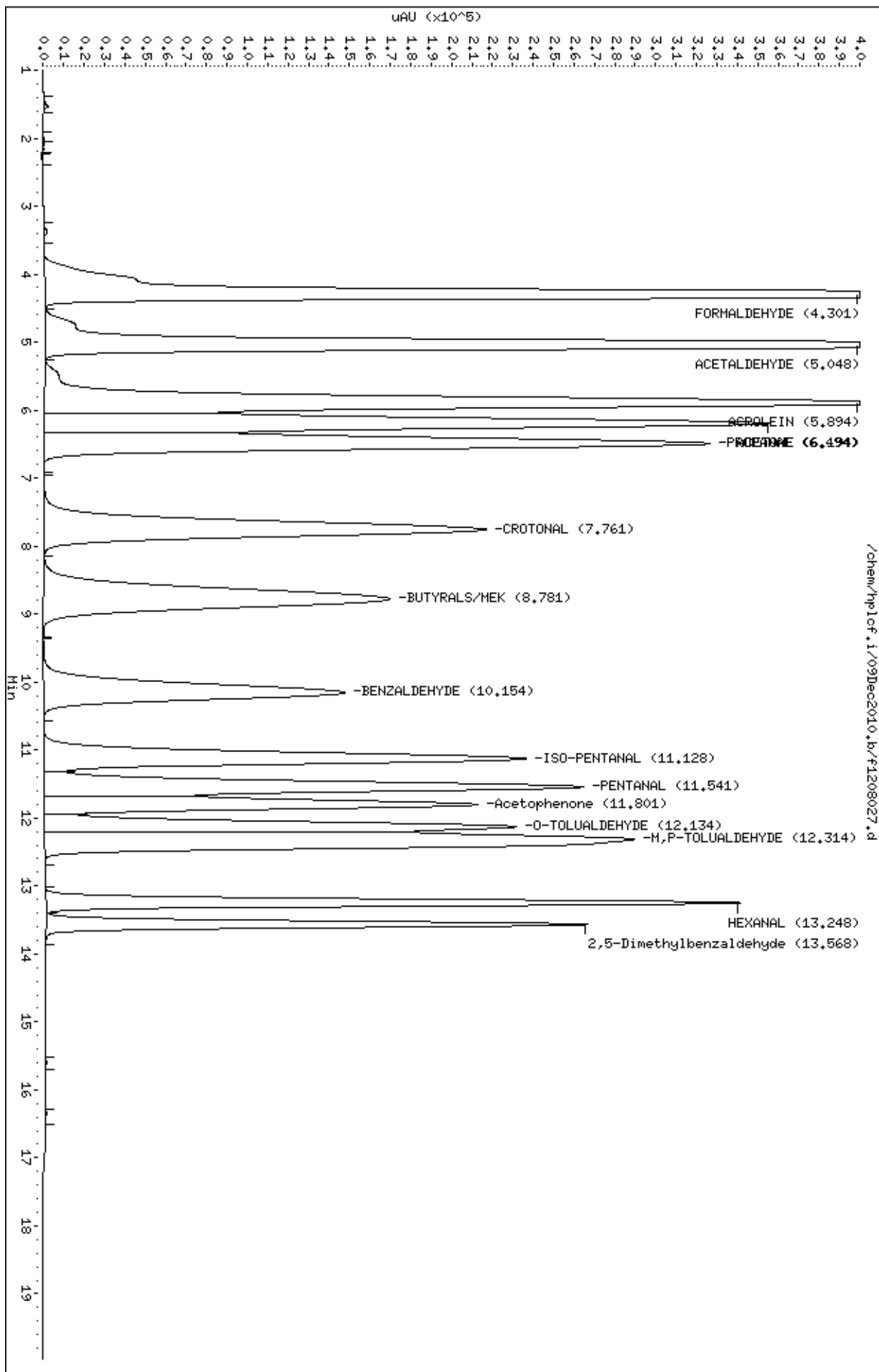
Purge Volume: 5.0

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/09Dec2010.b/f1208026.d

Lab Smp Id: 1838-44-50Client Smp ID: 9

Inj Date : 09-DEC-2010 01:21

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-50;9

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 02:02Cal File: f1208028.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 * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPB	Compound Not Detected.					
2 FORMALDEHYDE	4.303	4.303	0.000	6903231	50.0000	50.8
3 ACETALDEHYDE	5.050	5.050	0.000	5177265	50.0000	50.2
4 ACROLEIN	5.904	5.904	0.000	4851202	50.0000	50.7
5 ACETONE	6.204	6.204	0.000	3853548	50.0000	49.7
6 PROPANAL	6.510	6.510	0.000	3816123	50.0000	50.0
7 CROTONAL	7.784	7.784	0.000	3424881	50.0000	49.6
8 BUTYRALS/MEK	8.810	8.810	0.000	3264251	50.0000	50.4
9 BENZALDEHYDE	10.184	10.184	0.000	2332839	50.0000	48.8
10 ISO-PENTANAL	11.143	11.143	0.000	2792002	50.0000	49.1
11 PENTANAL	11.557	11.557	0.000	2787566	50.0000	49.4
12 O-TOLUALDEHYDE	12.143	12.143	0.000	2133293	50.0000	50.3
13 M,P-TOLUALDEHYDE	12.323	12.323	0.000	3850579	100.000	97.8
14 HEXANAL	13.250	13.250	0.000	2401466	50.0000	49.7
15 2,5-Dimethylbenzaldehyde	13.570	13.570	0.000	1738992	50.0000	49.0
16 Acetophenone	11.817	11.817	0.000	2067488	50.0000	49.3

Data File: /chem/hp1cf.i/09Dec2010.b/f1208026.d

Date : 09-DEC-2010 01:21

Client ID: 9

Sample Info: f1838-44-50;9

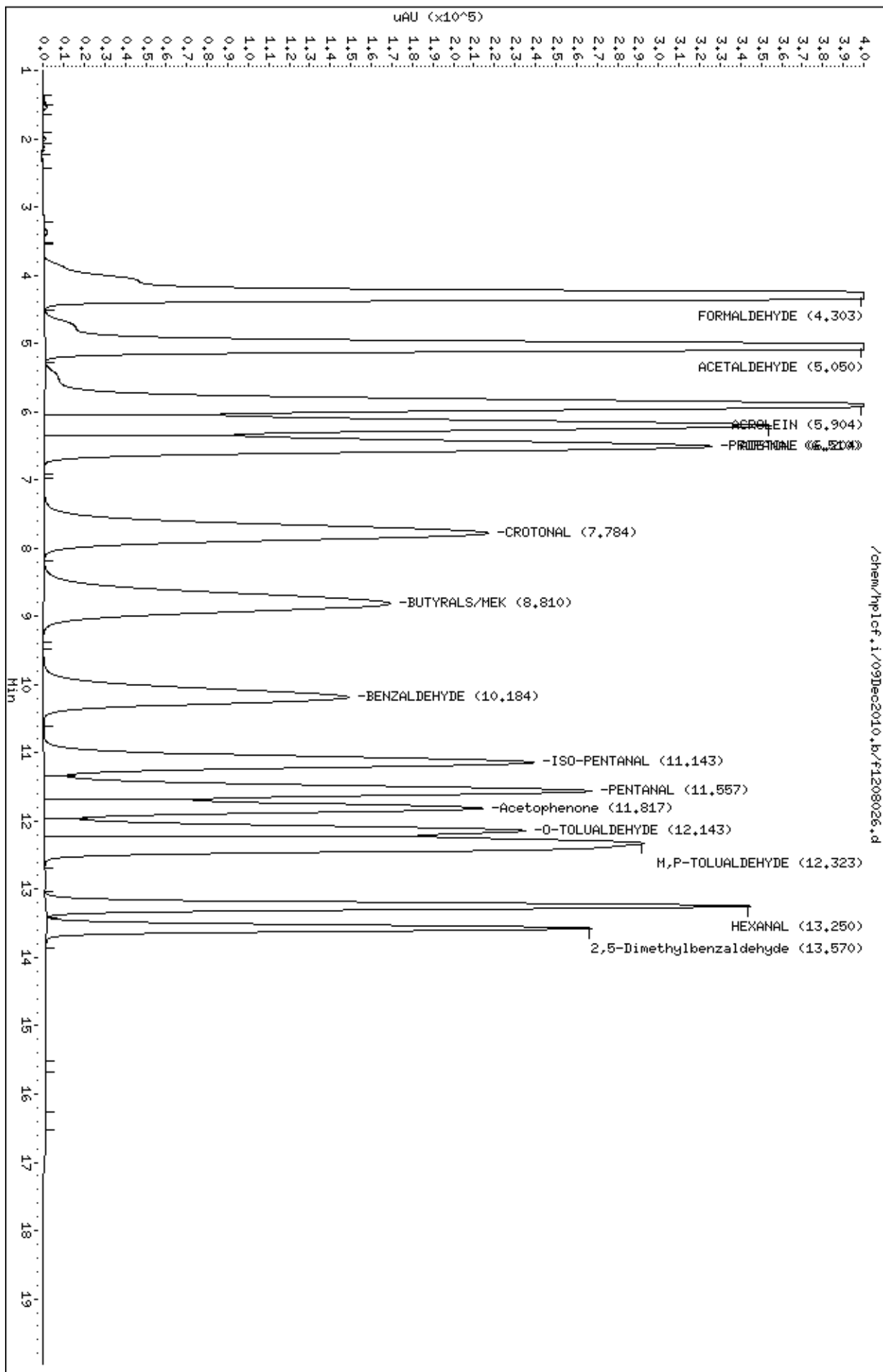
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208034.d

Lab Smp Id: 1838-45-75

Client Smp ID: ACET

Inj Date : 09-DEC-2010 04:08

Operator : CRL

Inst ID: hplcf.i

Smp Info : ;1838-45-75;ACET

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhang

Quant Type: ESTD

Cal Date : 09-DEC-2010 04:08

Cal File: f1208034.d

Als bottle: 1

Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: Acetoph.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
16 Acetophenone	11.843	11.843	0.000	3105880	75.0000	74.0

Data File: /chem/hplcf.i/09Dec2010.b/f1208034.d

Date : 09-DEC-2010 04:08

Client ID: ACET

Sample Info: f1838-45-75;ACET

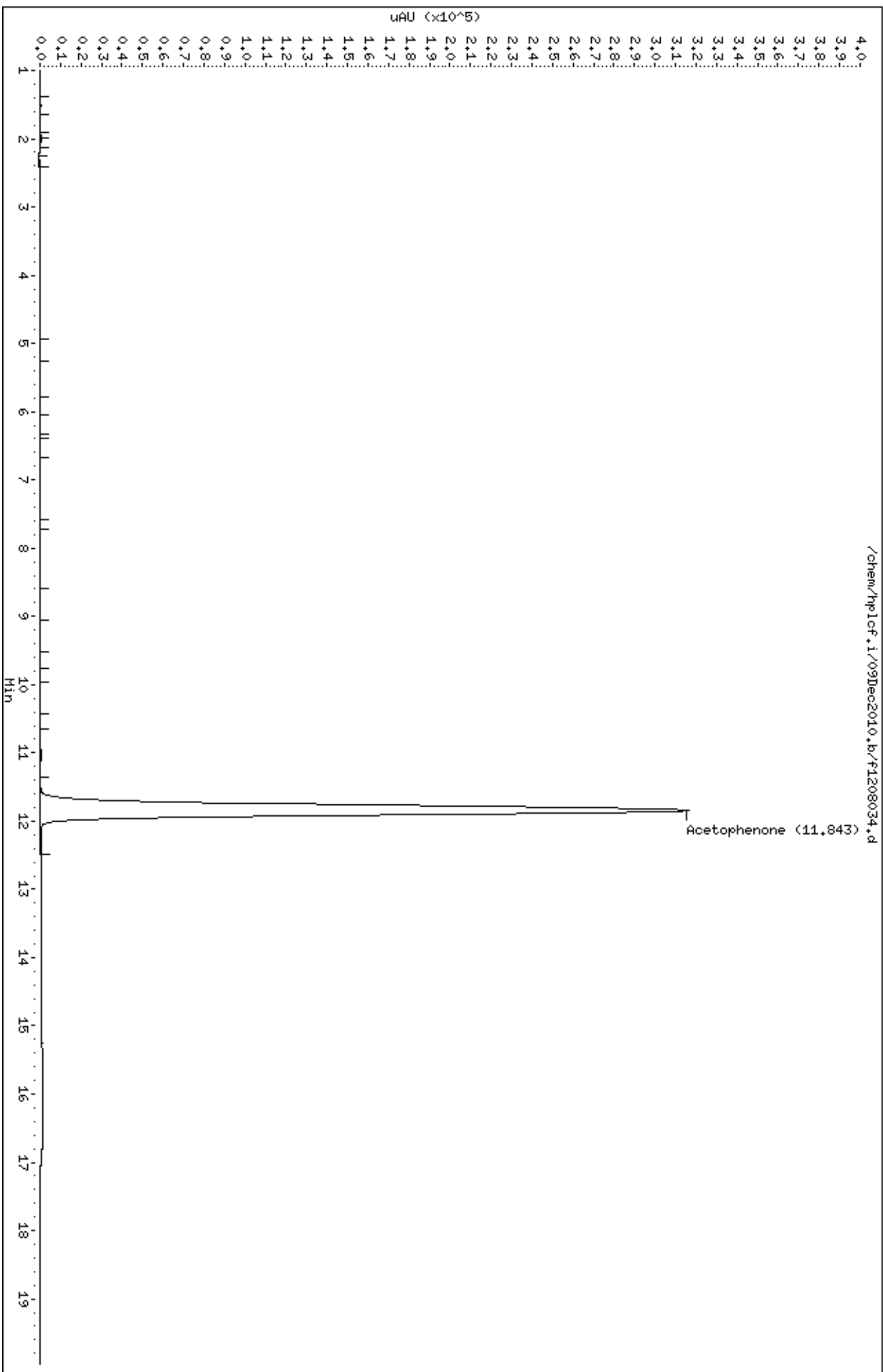
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



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

Cpnd Variable	Local Compound Variable
---------------	-------------------------

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH		Compound Not Detected.				
16 Acetophenone	11.845	11.845	0.000	3094076	75.0000	73.7

Data File: /chem/hplcf.i/09Dec2010.b/f1208033.d

Date : 09-DEC-2010 03:47

Client ID: ACET

Sample Info: f1838-45-75;ACET

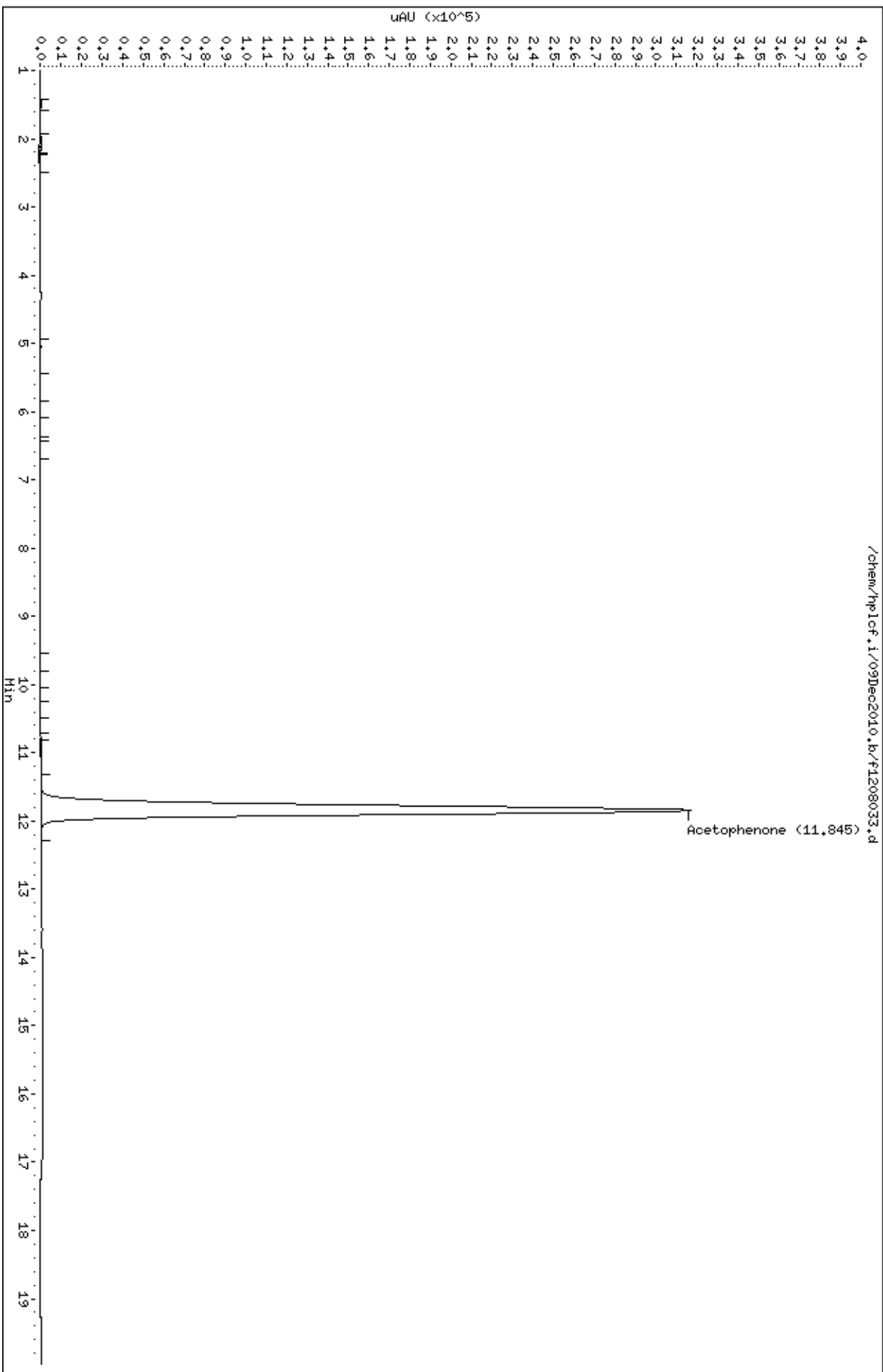
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



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

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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18	18
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21	21
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54	54
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56	56
57	57
58	58
59	59
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61	61
62	62
63	63
64	64
65	65
66	66
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92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL - AMT (ng)	ON - COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
16 Acetophenone	11.833	11.833	0.000	3095101	75.0000	73.7

Data File: /chem/hplcf.i/09Dec2010.b/f1208032.d

Date : 09-DEC-2010 03:26

Client ID: ACET

Sample Info: f1838-45-75;ACET

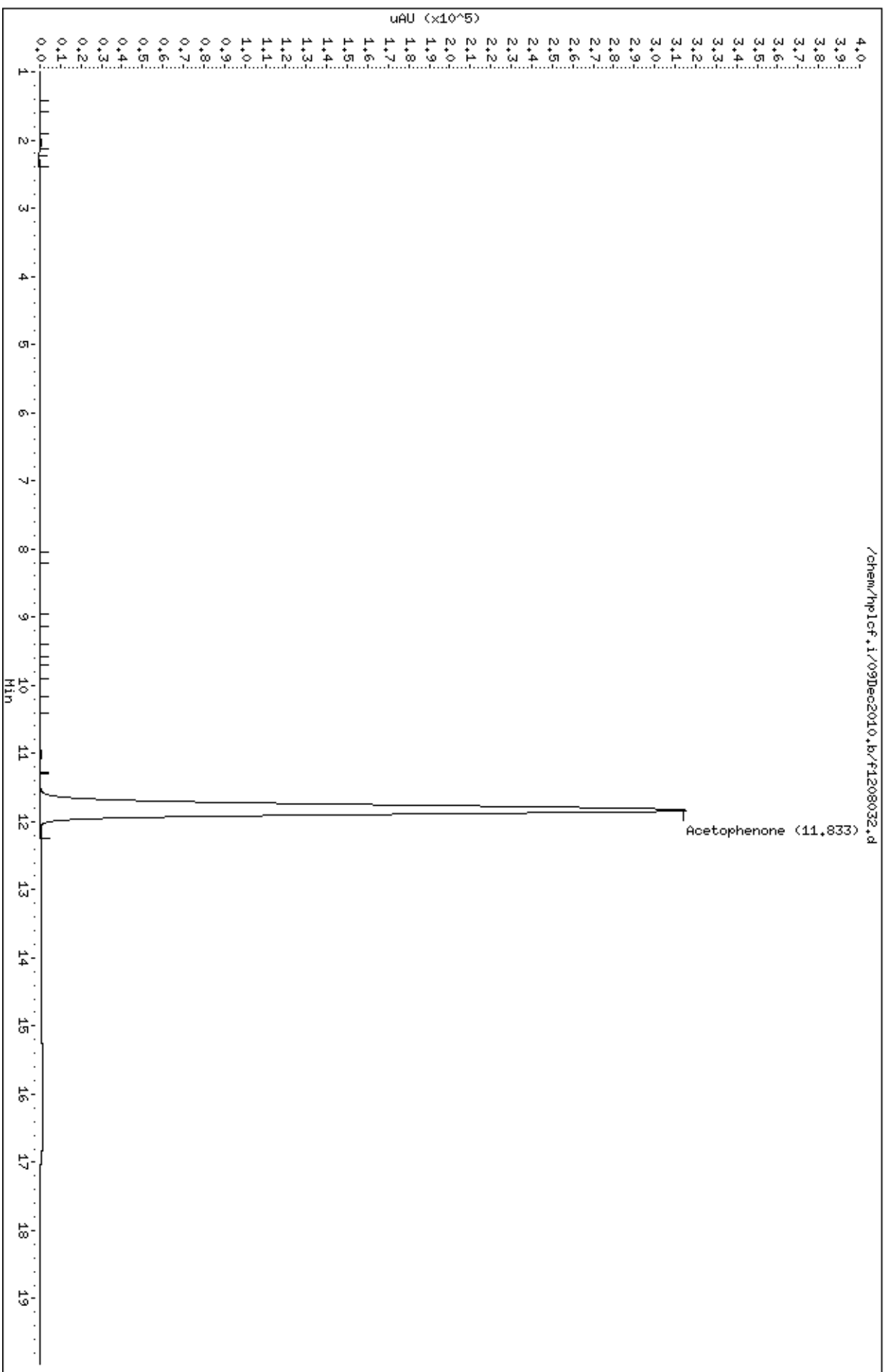
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208031.d

Lab Smp Id: 1838-44-75Client Smp ID: 10

Inj Date : 09-DEC-2010 03:05

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-75;10

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 03:47Cal File: f1208033.d

Als bottle: 1Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: T0-11+Acr+17.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.305	4.305	0.000	9562167	75.0000	70.3
3 ACETALDEHYDE	5.052	5.052	0.000	7479314	75.0000	72.5
4 ACROLEIN	5.905	5.905	0.000	7289903	75.0000	76.2(A)
5 ACETONE	6.199	6.199	0.000	5748286	75.0000	74.2
6 PROPANAL	6.505	6.505	0.000	5626965	75.0000	73.8
7 CROTONAL	7.779	7.779	0.000	5105512	75.0000	74.0
8 BUTYRALS/MEK	8.812	8.812	0.000	4863711	75.0000	75.1
9 BENZALDEHYDE	10.192	10.192	0.000	3481223	75.0000	72.9
10 ISO-PENTANAL	11.152	11.152	0.000	4148023	75.0000	73.0
11 PENTANAL	11.572	11.572	0.000	4113475	75.0000	72.9
12 O-TOLUALDEHYDE	12.159	12.159	0.000	3170914	75.0000	74.8
13 M,P-TOLUALDEHYDE	12.339	12.339	0.000	5707966	150.000	145
14 HEXANAL	13.265	13.265	0.000	3585838	75.0000	74.2
15 2,5-Dimethylbenzaldehyde	13.592	13.592	0.000	2593581	75.0000	73.0

QC Flag Legend

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

Data File: /chem/hp1cf.i/09Dec2010.b/f1208031.d

Date : 09-DEC-2010 03:05

Client ID: 10

Sample Info: f1838-44-75;10

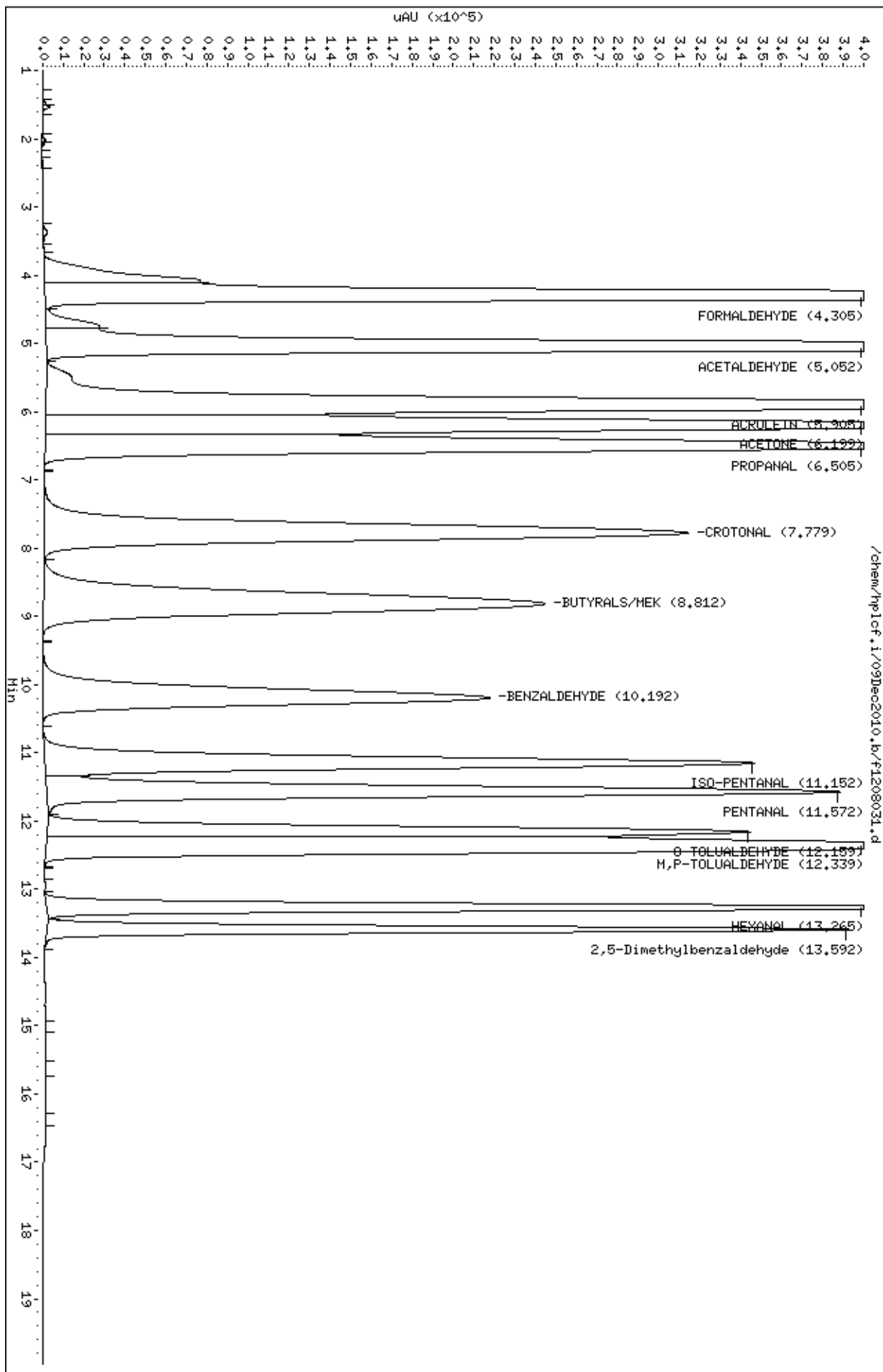
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hp1cf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208030.d

Lab Smp Id: 1838-44-75Client Smp ID: 10

Inj Date : 09-DEC-2010 02:44

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-75;10

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 03:47Cal File: f1208033.d

Als bottle: 1Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: T0-11+Acr+17.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT	ON-COL
					(ng)	(ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.301	4.301	0.000	10244328	75.0000	75.4
3 ACETALDEHYDE	5.041	5.041	0.000	7669496	75.0000	74.4
4 ACROLEIN	5.895	5.895	0.000	7240992	75.0000	75.6(A)
5 ACETONE	6.195	6.195	0.000	5795949	75.0000	74.8
6 PROPANAL	6.495	6.495	0.000	5572091	75.0000	73.1
7 CROTONAL	7.761	7.761	0.000	5092113	75.0000	73.8
8 BUTYRALS/MEK	8.788	8.788	0.000	4850693	75.0000	74.9
9 BENZALDEHYDE	10.168	10.168	0.000	3470608	75.0000	72.6
10 ISO-PENTANAL	11.128	11.128	0.000	4144866	75.0000	72.9
11 PENTANAL	11.548	11.548	0.000	4094385	75.0000	72.6
12 O-TOLUALDEHYDE	12.141	12.141	0.000	3103059	75.0000	73.2
13 M,P-TOLUALDEHYDE	12.321	12.321	0.000	5747708	150.000	146
14 HEXANAL	13.248	13.248	0.000	3573549	75.0000	73.9
15 2,5-Dimethylbenzaldehyde	13.568	13.568	0.000	2587786	75.0000	72.9

QC Flag Legend

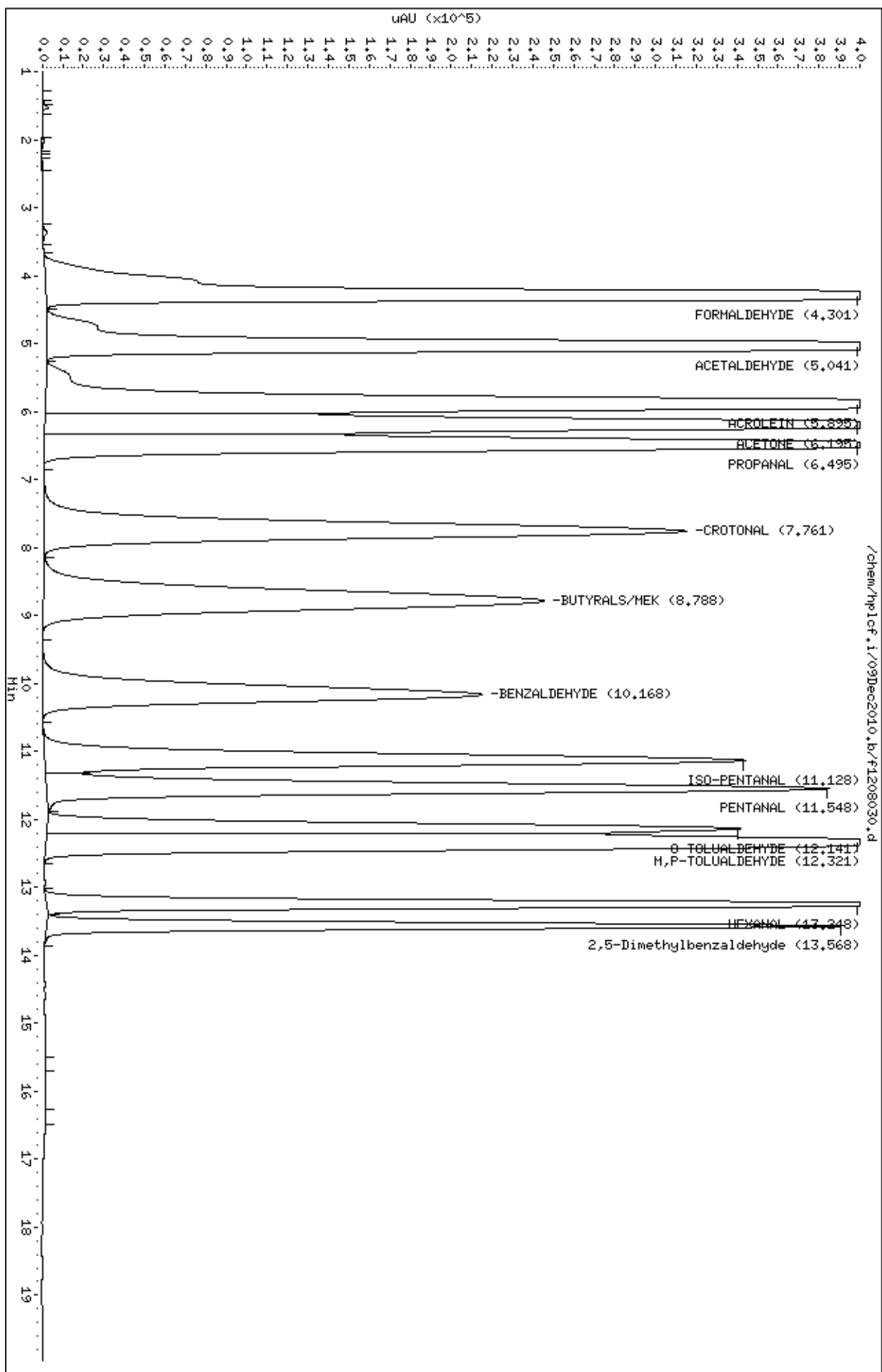
A - Target compound detected but, quantitated amount exceeded maximum amount.

Page 1

Client ID: 10

Purge Volume: 5.0

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



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/09Dec2010.b/f1208029.d

Lab Smp Id: 1838-44-75Client Smp ID: 10

Inj Date : 09-DEC-2010 02:23

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-75;10

Misc Info :

Comment :

Method : /chem/hplcf.i/09Dec2010.b/F10D1208.m

Meth Date : 10-Dec-2010 13:17 lzhangQuant Type: ESTD

Cal Date : 09-DEC-2010 03:47Cal File: f1208033.d

Als bottle: 1Calibration Sample, Level: 10

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: T0-11+Acr+17.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd VariableLocal Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.300	4.300	0.000	10268456	75.0000	75.5(A)
3 ACETALDEHYDE	5.040	5.040	0.000	7704020	75.0000	74.7
4 ACROLEIN	5.894	5.894	0.000	7211499	75.0000	75.3
5 ACETONE	6.187	6.187	0.000	5768420	75.0000	74.4
6 PROPANAL	6.487	6.487	0.000	5692987	75.0000	74.7
7 CROTONAL	7.754	7.754	0.000	5112390	75.0000	74.1
8 BUTYRALS/MEK	8.780	8.780	0.000	4876519	75.0000	75.3
9 BENZALDEHYDE	10.160	10.160	0.000	3482442	75.0000	72.9
10 ISO-PENTANAL	11.127	11.127	0.000	4146850	75.0000	72.9
11 PENTANAL	11.547	11.547	0.000	4123454	75.0000	73.1
12 O-TOLUALDEHYDE	12.134	12.134	0.000	3075133	75.0000	72.5
13 M,P-TOLUALDEHYDE	12.320	12.320	0.000	5801443	150.000	147
14 HEXANAL	13.247	13.247	0.000	3582644	75.0000	74.1
15 2,5-Dimethylbenzaldehyde	13.574	13.574	0.000	2592828	75.0000	73.0

QC Flag Legend

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

Data File: /chem/hplcf.i/09Dec2010.b/f1208029.d

Date : 09-DEC-2010 02:23

Client ID: 10

Sample Info: f1838-44-75;10

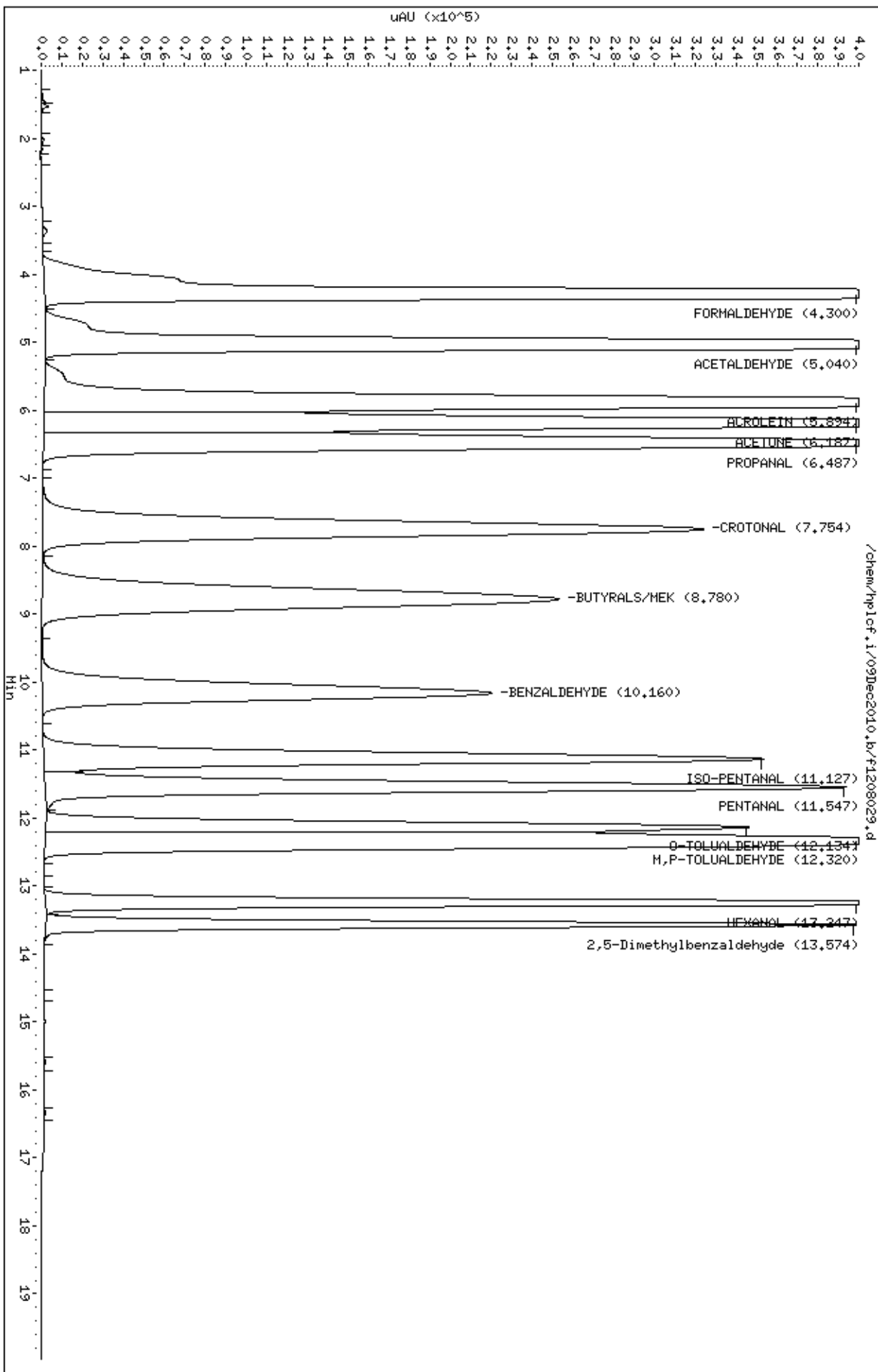
Purge Volume: 5.0

Column phase: C-18 REVERSE PHASE

Instrument: hplcf.i

Operator: CRL

Column diameter: 2.00



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplcf.i Injection Date: 20-DEC-2010 09:41

Lab File ID: f1220003.d Init. Cal. Date(s): 08-DEC-2010 09-DEC-2010

Analysis Type: AIR Init. Cal. Times: 16:59 04:08

Lab Sample ID: 1838-44-4 Quant Type: ESTD

Method: /chem/hplcf.i/20Dec2010.b/F10D1208.m

COMPOUND	_____		MIN		MAX	
	RRF / AMOUNT	RF4	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
2 FORMALDEHYDE	135949	136556	0.010	-0.44644	10.00000	Averaged
_____	_____	_____	_____	_____	_____	_____

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220003.d

Lab Smp Id: 1838-44-4Client Smp ID: CCV

Inj Date : 20-DEC-2010 09:41

Operator : FM/CRLInst ID: hplcf.i

Smp Info : ;1838-44-4;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.d

Als bottle: 1Continuing Calibration Sample

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	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	==	=====	=====	=====	=====	=====
1 DNPH	Compound Not Detected.					
2 FORMALDEHYDE	4.209	4.209	0.000	546224	4.00000	4.02

Data File: /chem/hp1cf.i/20Dec2010.b/f1220003.d

Page 1

Date : 20-DEC-2010 09:41

Client ID: CCV

Instrument: hp1cf.i

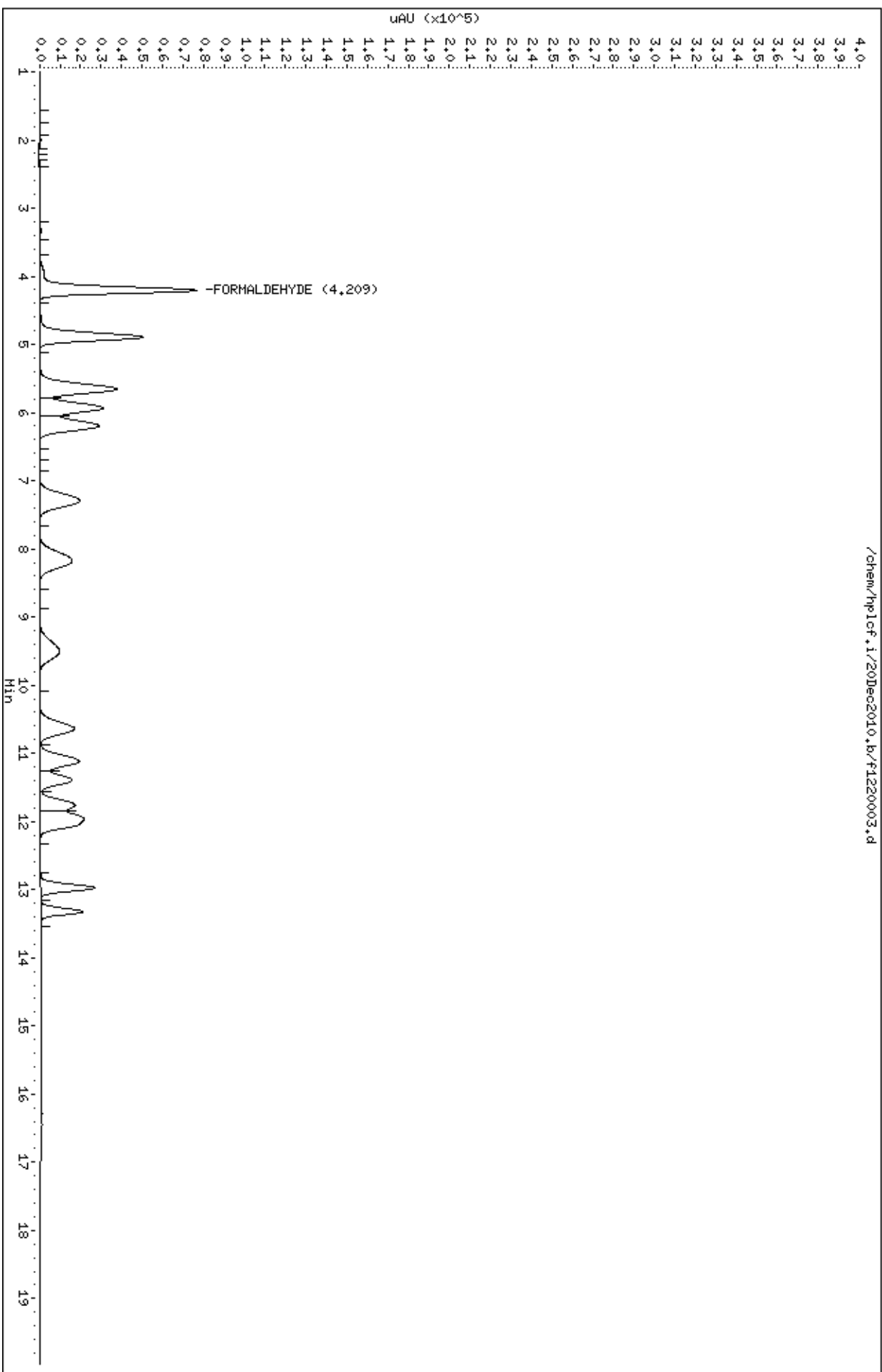
Sample Info: f1838-44-4;CCV

Purge Volume: 5.0

Operator: FN/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/20Dec2010.b/f1220004.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 20-DEC-2010 10:03

Operator : FM/CRLInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	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.		

Data File: /chem/hplcf.i/20Dec2010.b/f1220004.d

Page 1

Date : 20-DEC-2010 10:03

Client ID: LAB BLANK

Instrument: hplcf.i

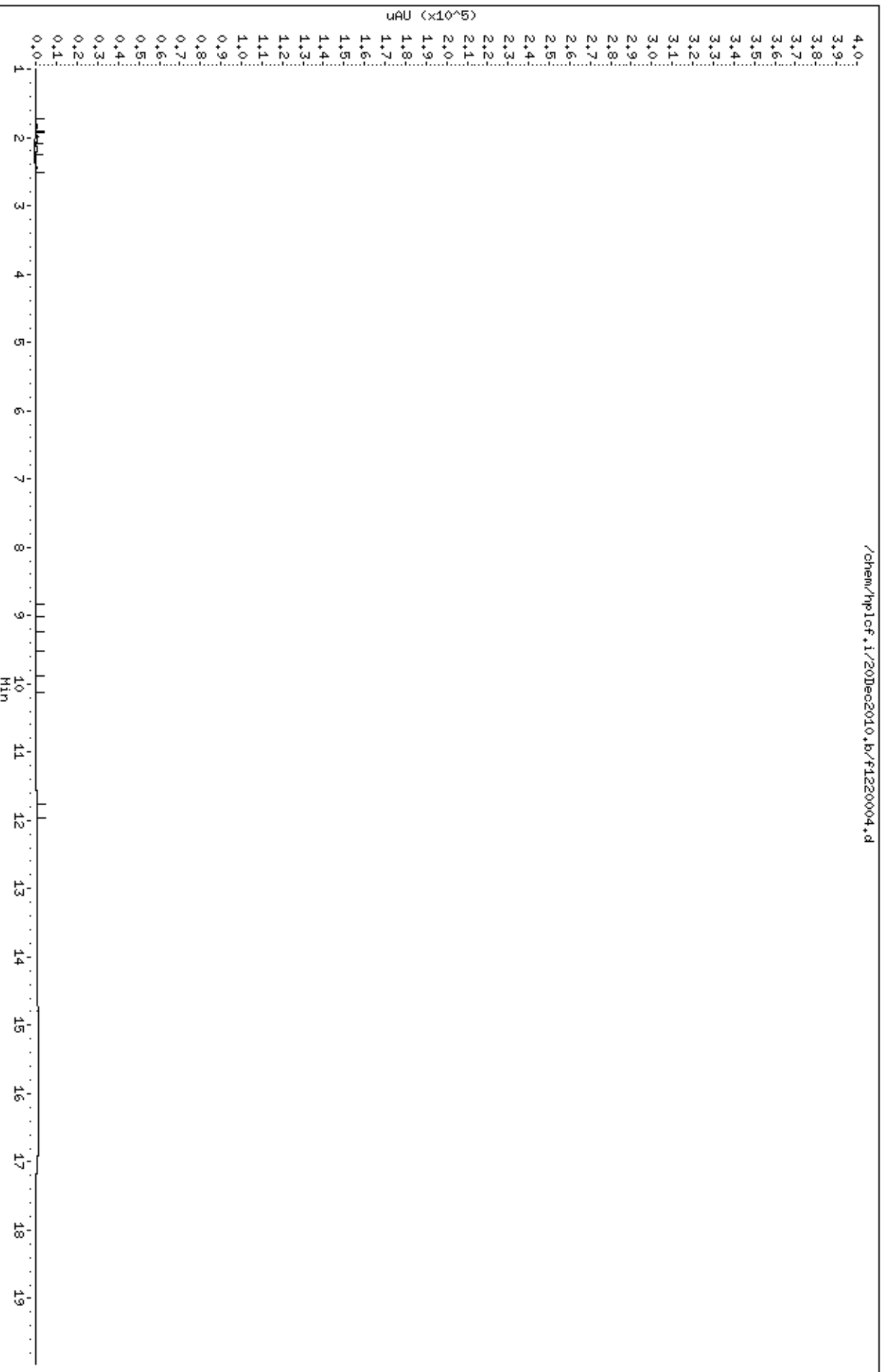
Sample Info: JCCB;LAB BLANK

Purge Volume: 5.0

Operator: FN/CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:

Lab Smp Id: 1838-44-4

Sample Location:

Sample Date:

Sample Matrix: AIR

Analysis Type: OTHER

Data Type: LC DATA

Misc Info:

Client SDG: 20Dec2010

Client Smp ID: CCV

Sample Point:

Date Received:

Quant Type: ESTD

Level: MED

Operator: CRL

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
50-00-0-----	FORMALDEHYDE	3.93	
=====	=====	=====	=====

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220021.d

Lab Smp Id: 1838-44-4Client Smp ID: CCV

Inj Date : 20-DEC-2010 19:18

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-4;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.327	4.209	0.118	533876	3.92703	3.93

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 20Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-44-4	Client Smp ID: CCV
Level: MED	Operator: CRL
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/20Dec2010.b/F10D1208.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	4.00	3.93	98.18	90-110

Data File: /chem/hp1cf.i/20Dec2010.b/f1220021.d

Page 1

Date : 20-DEC-2010 19:18

Client ID: CCV

Instrument: hp1cf.i

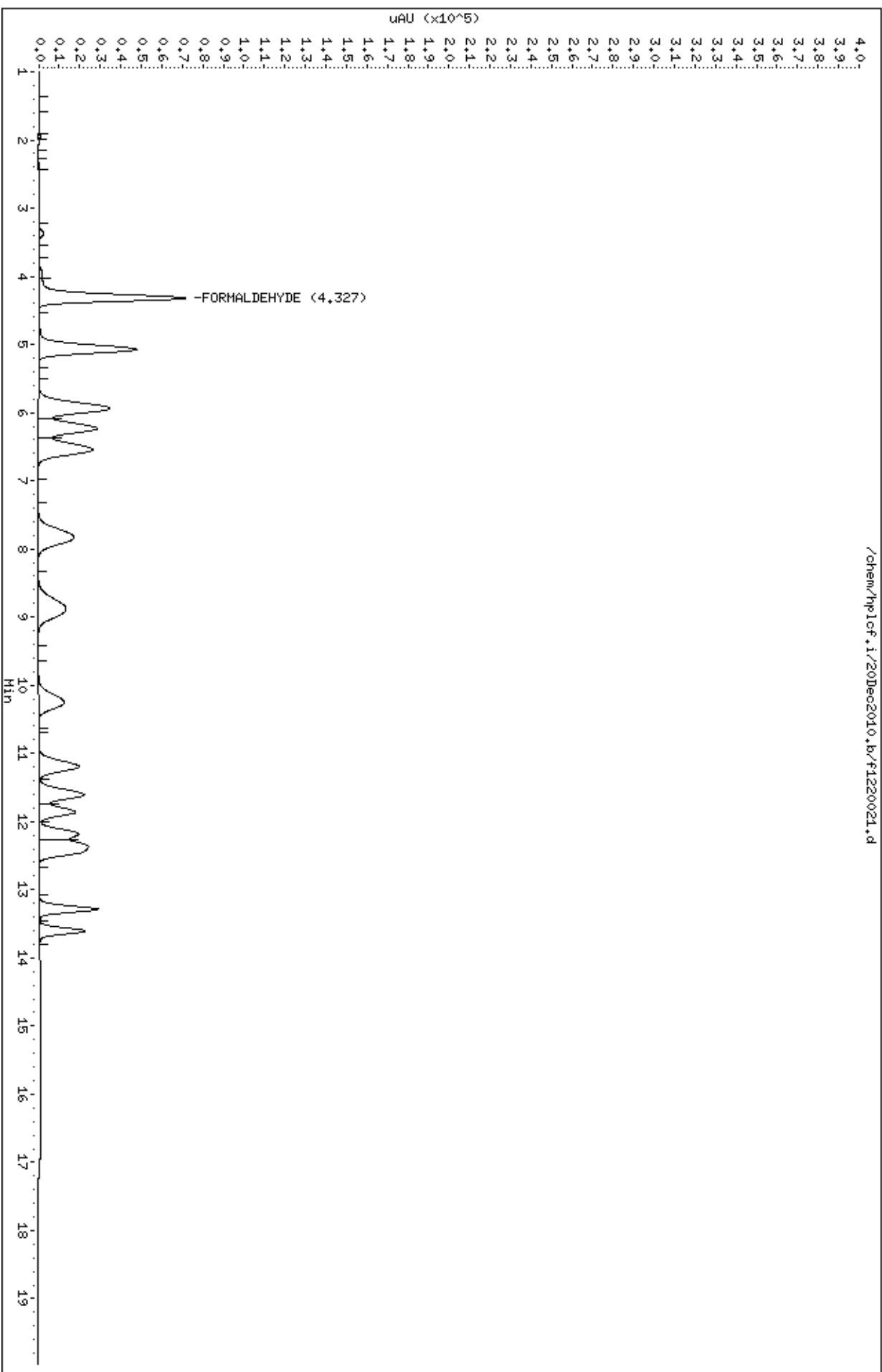
Sample Info: f1838-44-4;CCV

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220022.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 20-DEC-2010 19:39

Operator : CRLInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	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.		

Data File: /chem/hplcf.i/20Dec2010.b/f1220022.d

Page 1

Date : 20-DEC-2010 19:39

Client ID: LAB BLANK

Instrument: hplcf.i

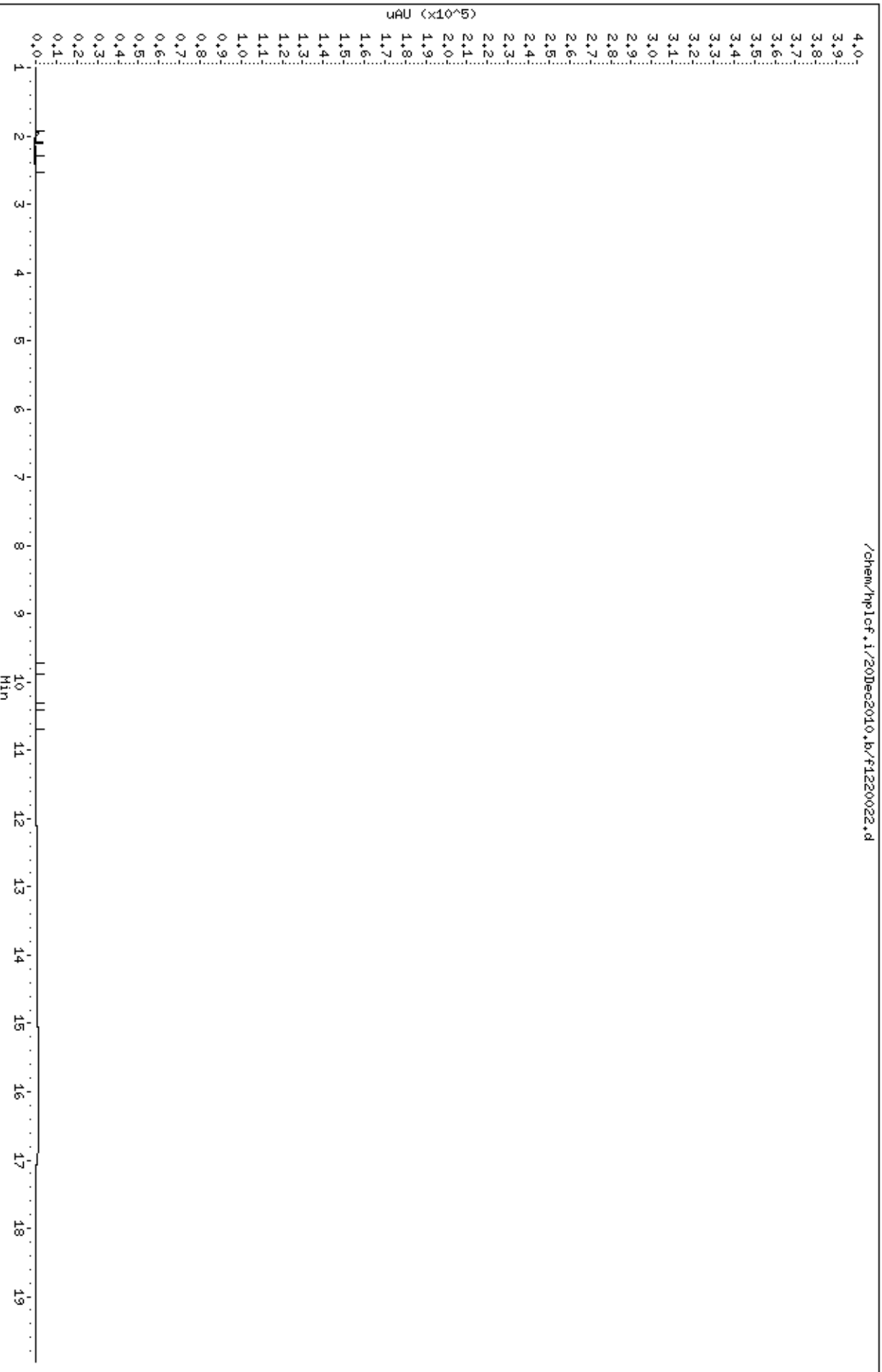
Sample Info: JCCB;LAB BLANK

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:

Lab Smp Id: 1838-44-4

Sample Location:

Sample Date:

Sample Matrix: AIR

Analysis Type: OTHER

Data Type: LC DATA

Misc Info:

Client SDG: 20Dec2010

Client Smp ID: CCV

Sample Point:

Date Received:

Quant Type: ESTD

Level: MED

Operator: CRL

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
50-00-0-----	FORMALDEHYDE	3.95	
=====	=====	=====	=====

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220033.d

Lab Smp Id: 1838-44-4Client Smp ID: CCV

Inj Date : 20-DEC-2010 23:29

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-4;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.308	4.209	0.099	536707	3.94785	3.95

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 20Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-44-4	Client Smp ID: CCV
Level: MED	Operator: CRL
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/20Dec2010.b/F10D1208.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	4.00	3.95	98.70	90-110

Data File: /chem/hp1cf.i/20Dec2010.b/f1220033.d

Page 1

Date : 20-DEC-2010 23:29

Client ID: CCV

Instrument: hp1cf.i

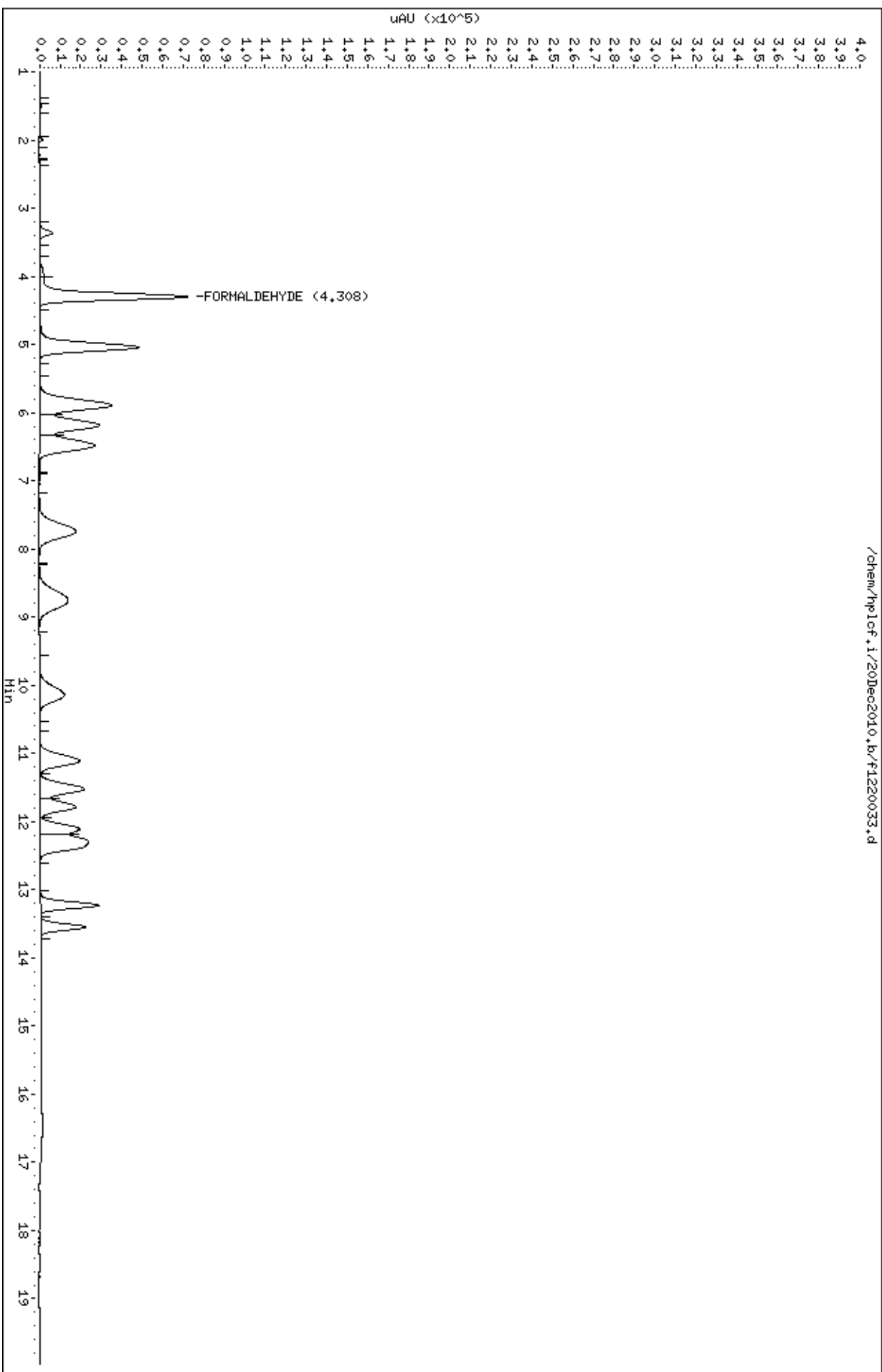
Sample Info: f1838-44-4;CCV

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220034.d

Lab Smp Id: CCBClient Smp ID: LAB BLANK

Inj Date : 20-DEC-2010 23:50

Operator : CRLInst ID: hplcf.i

Smp Info : ;CCB;LAB BLANK

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	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.		

Data File: /chem/hp1cf.i/20Dec2010.b/f1220034.d

Page 1

Date : 20-DEC-2010 23:50

Client ID: LAB BLANK

Instrument: hp1cf.i

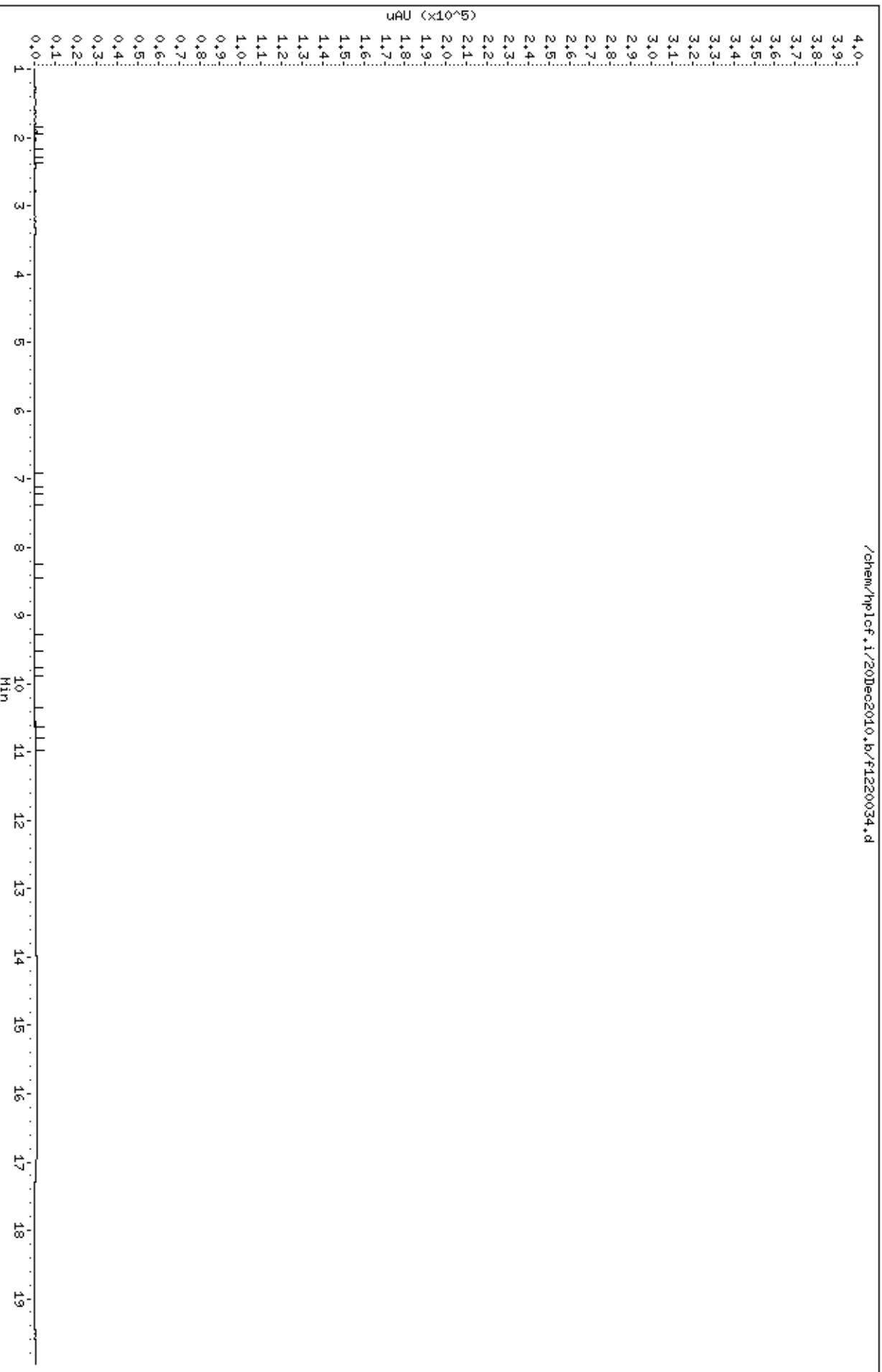
Sample Info: JCCB;LAB BLANK

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:

Lab Smp Id: 1838-44-4

Sample Location:

Sample Date:

Sample Matrix: AIR

Analysis Type: OTHER

Data Type: LC DATA

Misc Info:

Client SDG: 20Dec2010

Client Smp ID: CCV

Sample Point:

Date Received:

Quant Type: ESTD

Level: MED

Operator: CRL

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/KG) ug	Q
50-00-0-----	FORMALDEHYDE	4.06	
=====	=====	=====	=====

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220045.d

Lab Smp Id: 1838-44-4Client Smp ID: CCV

Inj Date : 21-DEC-2010 03:40

Operator : CRLInst ID: hplcf.i

Smp Info : ;1838-44-4;CCV

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.314	4.209	0.105	552756	4.06590	4.06

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 20Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1838-44-4	Client Smp ID: CCV
Level: MED	Operator: CRL
Data Type: LC DATA	SampleType: METHSPIKE
SpikeList File: 4fug.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/20Dec2010.b/F10D1208.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	4.00	4.06	101.65	90-110

Data File: /chem/hp1cf.i/20Dec2010.b/f1220045.d

Page 1

Date : 21-DEC-2010 03:40

Client ID: CCV

Instrument: hp1cf.i

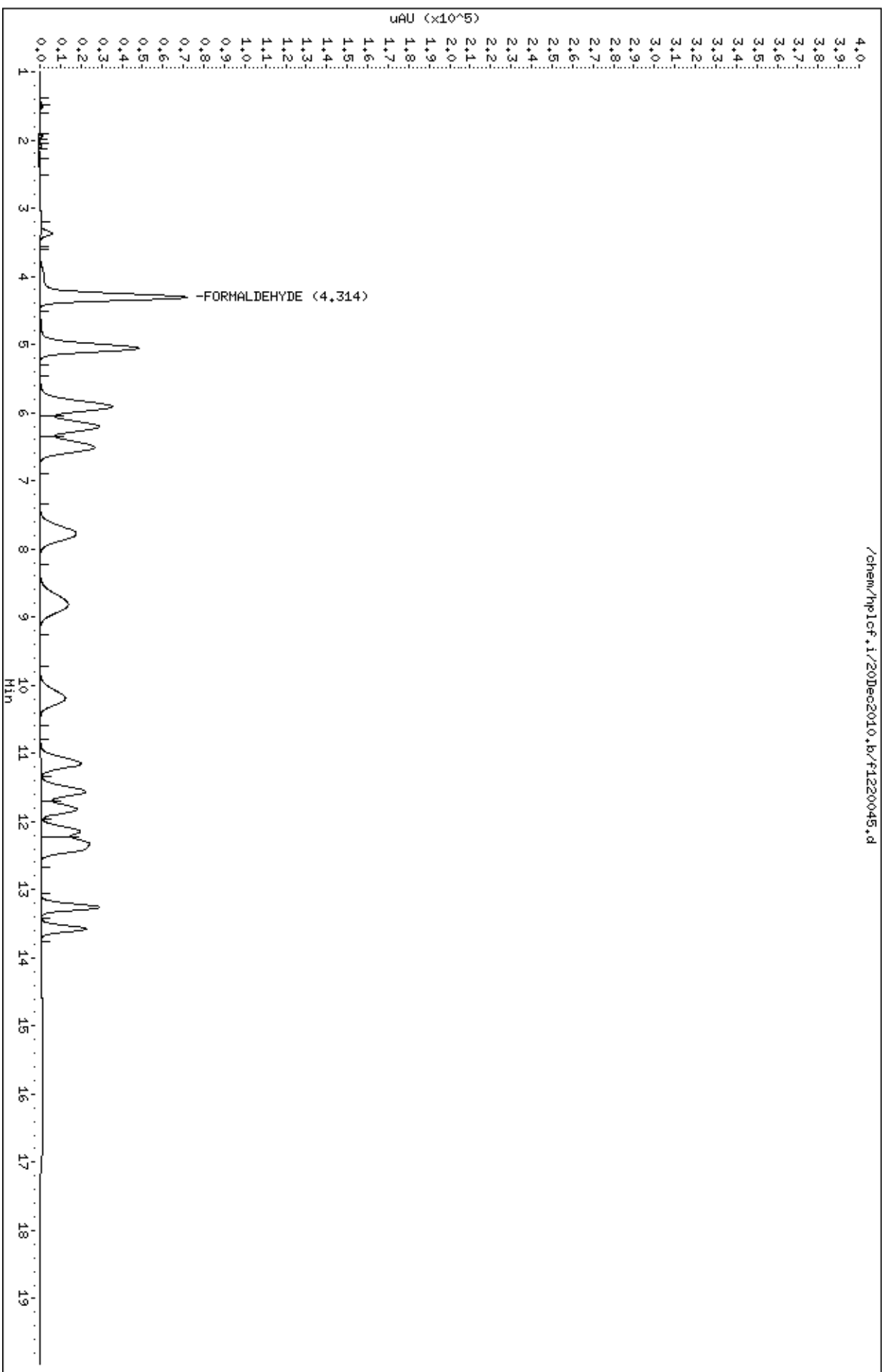
Sample Info: f1838-44-4;CCV

Purge Volume: 5.0

Operator: CRL

Column phase: C-18 REVERSE PHASE

Column diameter: 2.00



Client Sample ID: LCS

Lab ID#: 1012370A-17A

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220006
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/20/10 10:44 AM
Date of Extraction: 12/20/10

Compound	%Recovery
Formaldehyde	98

Container Type: NA - Not Applicable

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 20Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1012370A	Client Smp ID: LCS
Level: MED	Operator: FM/CRL
Data Type: LC DATA	SampleType: LCS
SpikeList File: Form15T011.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/20Dec2010.b/F10D1208.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	14.7	97.84	85-115

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220006.d

Lab Smp Id: 1012370AClient Smp ID: LCS

Inj Date : 20-DEC-2010 10:44

Operator : FM/CRLInst ID: hplcf.i

Smp Info : ;1012370A;LCS

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	3.082	2.941	0.141	5554832		
2 FORMALDEHYDE	4.322	4.209	0.113	4988132	36.6911	14.7

Data File: /chem/hp1cf.i/20Dec2010.b/f1220006.d

Page 1

Date : 20-DEC-2010 10:44

Client ID: LCS

Instrument: hp1cf.i

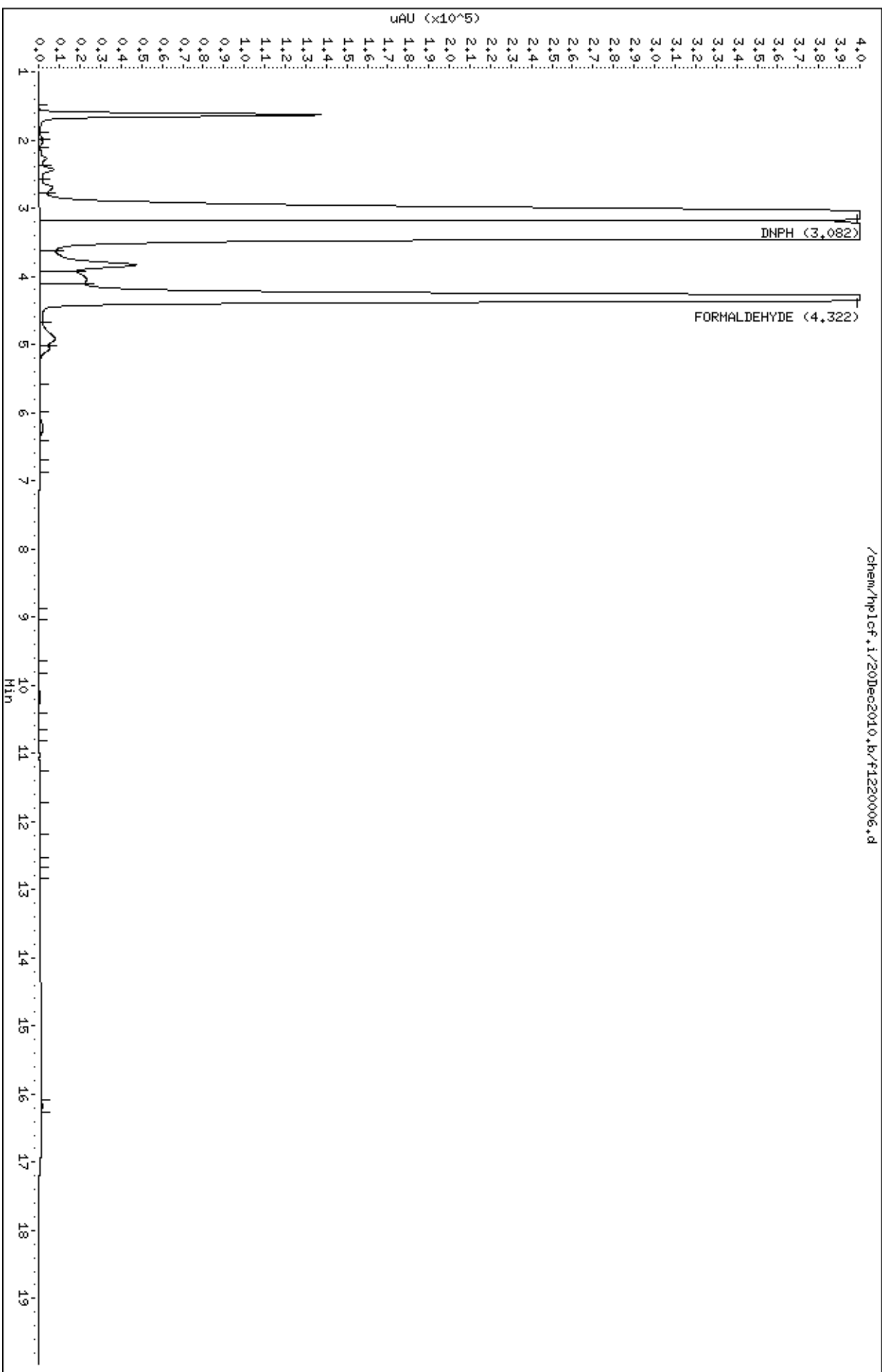
Sample Info: j10123709;LCS

Purge Volume: 5.0

Operator: FN/CRL

Column Phase: C-18 REVERSE PHASE

Column diameter: 2.00



Client Sample ID: LCSD

Lab ID#: 1012370A-17AA

RADIELLO ANALYSIS BY HPLC/UV

File Name: f1220007
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/20/10 11:05 AM
Date of Extraction: 12/20/10

Compound	%Recovery
Formaldehyde	98

Container Type: NA - Not Applicable

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 20Dec2010
Sample Matrix: LIQUID	Fraction: OTHER
Lab Smp Id: 1012370A	Client Smp ID: LCSD
Level: MED	Operator: FM/CRL
Data Type: LC DATA	SampleType: LCSD
SpikeList File: Form15T011.spk	Quant Type: ESTD
Sublist File: form.sub	
Method File: /chem/hplcf.i/20Dec2010.b/F10D1208.m	
Misc Info:	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
2 FORMALDEHYDE	15.0	14.7	98.05	85-115

Air Toxics Ltd.

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

Data file : /chem/hplcf.i/20Dec2010.b/f1220007.d

Lab Smp Id: 1012370AClient Smp ID: LCSD

Inj Date : 20-DEC-2010 11:05

Operator : FM/CRLInst ID: hplcf.i

Smp Info : ;1012370A;LCSD

Misc Info :

Comment :

Method : /chem/hplcf.i/20Dec2010.b/F10D1208.m

Meth Date : 20-Dec-2010 11:03 cleafQuant Type: ESTD

Cal Date : 09-DEC-2010 04:08Cal File: f1208034.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	Compound Not Detected.					
2 FORMALDEHYDE	4.338	4.209	0.129	4998537	36.7677	14.7

Data File: /chem/hp1cf.i/20Dec2010.b/f1220007.d

Page 1

Date : 20-DEC-2010 11:05

Client ID: LCSD

Instrument: hp1cf.i

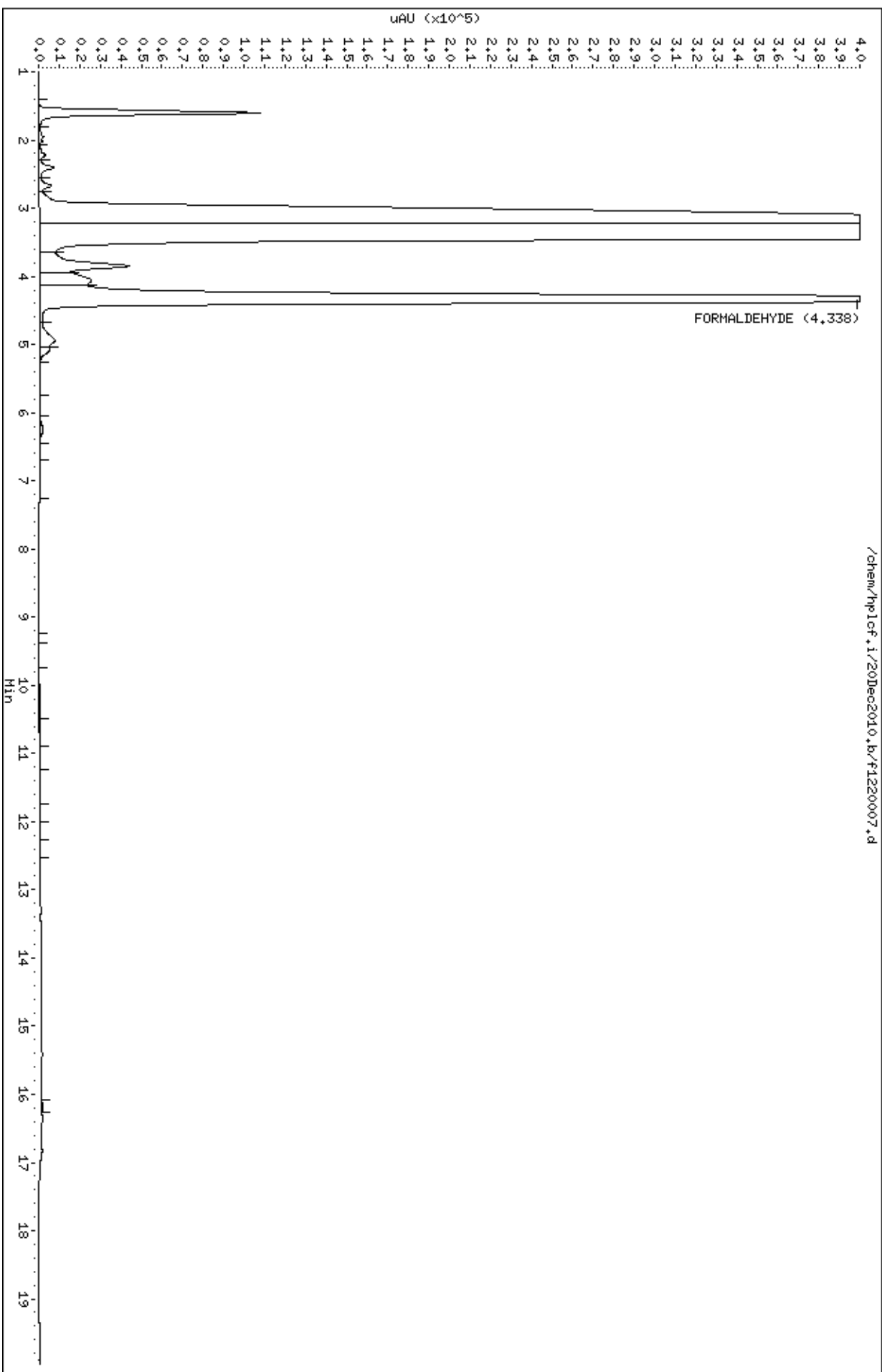
Sample Info: f10123704;LCSD

Purge Volume: 5.0

Operator: FN/CRL

Column Phase: C-18 REVERSE PHASE

Column diameter: 2.00



TO-11 Extraction Logbook

@Air Toxics Ltd.

Log Book #: 2010

ATL Work Order # 1012370A
Date Extracted 12/20/10Final Solvent: ACN
Spike I.D.: 1476-1964
Spike Witness: MJSSolvent Lot #: DB251
Spiked By: Fm

ATL Fraction	Clients I.D. #	Cartridge type & size	Final Volume (ml)	Spike Amount (ul)	Comments
1012370A-RLV	NA	Rad Lot # 165 10204	2	NA	
-LCS	NA	↓ 10048		30	
-01A	120267	NA		NA	
-02A	68				
-03A	69				
-04A	70				
-05A	71				
-06A	83				
-07A	84				
-08A	85				
-09A	86				
-10A	87				
-11A	99				
-12A	120300				
-13A	301				
-14A	302				
↓ -15A	↓ 303	↓	↓	↓	

Comments:

Fm

12/20/10

Fauzi

Signed

12/20/10

Date

Revised: 12/06

Method: Radiello 165Pressure: 66 bar

U s e	File #	Sample Name/Client	DF	Loaded by Init.	Date	Time	Reviewed by Init.	Comments
✓	F1220 001	ACU WASH	1.00	ace	12/20/10	0903	ace	equilibrating system
✓	2	↓				0920		↓
✓	3	CCV 1838-44-4				0941		
✓	4	CCB				1003		
✓	5	1012370A - Lab Blank				1023		
✓	6	↓ - US				1044		
✓	7	↓ - CCSD				1105		
✓	8	1012370B - Lab Blank				1126		
✓	9	↓ - US				1147		
✓	10	↓ - CCSD				1208		
✓	11	1012370A - 04A				1549		
✓	12	↓ - 05A				1610		
✓	13	↓ - 09A				1631		
✓	14	↓ - 10A				1652		
✓	15	↓ - 14A				1713		
✓	16	↓ - 15A				1734		
✓	17	1012370B - 19A				1755		
✓	18	↓ - 20A				1816		
✓	19	↓ - 24A				1836		
✓	20	↓ - 25A				1857		
✓	21	CCV 1838-44-4				1918		
✓	22	CCB				1939		
✓	23	1012370B - 29A				2000		
✓	24	↓ - 30A	↓			2021		
✓	25	1012370A - 01A	10.0			2042		
✓	26	↓ - 02A	↓			2103		
✓	27	↓ - 03A	↓			2124		
✓	28	↓ - 06A	↓			2145	✓	

Calculation Check:File ID: F1220009.d Compound: FormaldehydeInitials: ace

Sample Amt = $\frac{\text{Area Counts Sample}}{\text{RF}} \times \text{DF} = \left(\frac{5112088}{135949} \right) \times \left(\frac{2}{5} \right) =$

15.0

Reported Result:

15.0

Casmy Leaf12/21/10

Pressure: 6.6 bar

[illegible]

Calculation Check:

File ID: _____ Compound: _____

Initials: _____

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

Reported Result:

Casny Leaf S

12/21/11

Ch 12/20/10

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: 15 DEC 10

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

1012370

TO: AIR TOXICS

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

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

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

For EH & E Data Coordinator - URGENT DATA ☐

	SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
01A	120267	AIR PASSIVE	FORMALDEHYDE ANALYSIS 11/29/10-12/13/10	13D 14H 30M
02A	120268			
03A	120269			
04A	120270			
05A	120271			Ø
06A	120283		11/29/10-12/13/10	13D 22H 30M
07A	120284			
08A	120285			
09A	120286			
10A	120287			Ø
11A	120299		11/29/10-12/13/10	13D 23H 30M
12A	120300			
13A	120301			
14A	120302			
15A	120303			Ø

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 bbaker@ehinc.com

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

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 12/15/10

Received by: Brian Whiteaker of (company name) ATL Date: 12/16/10

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

Received by: _____ of (company name) CUSTODY SEAL INTACT? Date: _____

Relinquished by: _____ of (company name) Y N NONE TEL 412 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 1012370A

Client

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

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 01/03/11

Date Completed: 12/29/10

Date Received: 12/16/10

PO#: 17131

Project#: 17131

Total \$: \$ 1,425.00

Sales Rep: TL

Logged By: MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
01A	120267	Modified TO-11A	12/13/2010	\$90.00
02A	120268	Modified TO-11A	12/13/2010	\$90.00
03A	120269	Modified TO-11A	12/13/2010	\$90.00
04A	120270	Modified TO-11A	12/13/2010	\$90.00
05A	120271	Modified TO-11A	NA	\$90.00
06A	120283	Modified TO-11A	12/13/2010	\$90.00
07A	120284	Modified TO-11A	12/13/2010	\$90.00
08A	120285	Modified TO-11A	12/13/2010	\$90.00
09A	120286	Modified TO-11A	12/13/2010	\$90.00
10A	120287	Modified TO-11A	NA	\$90.00
11A	120299	Modified TO-11A	12/13/2010	\$90.00
12A	120300	Modified TO-11A	12/13/2010	\$90.00
13A	120301	Modified TO-11A	12/13/2010	\$90.00
14A	120302	Modified TO-11A	12/13/2010	\$90.00
15A	120303	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: 12/29/10

Date Received: 12/16/10

PO#: 17131

Project#: 17131

Total \$: \$ 1,425.00

Logged By: MW

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	ug

@ 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 #:

1012370A

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) RAO 165
☐	☐	☒	☐	☐	☐	Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☒	☐	☐	☐	Verify receipt pressures
☐	☐	☒	☐	☐	☐	Verify canister ID #'s
☐	☐	☒	☐	☐	☐	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
☐	☐	☒	☐	☐	☐	Final PDF report reviewed for correctness

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

A/R: 1) Dup = LCS / LSD 2) Exposure more than 7 days 3) QC duration used = 21000 min
 4) Duration 01A-04A 13 days, 14 hrs, 30 min = 19,590 min 04A-09A 13 days, 22 hours, 30 min = 20070 min 11A-14A 13d 23hrs 30 min = 20130 min
 5) FB = 05A, 10A, 15A

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: Carry back 12/29/10	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