

LABORATORY REPORT

September 28, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on September 2, 2009. For your reference, these analyses have been assigned our service request number P0903086.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 196 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-08-TX. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Inc.
Project: 16512

CAS Project No: P0903086

CASE NARRATIVE

The samples were received intact under chain of custody on September 2, 2009 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Aldehyde Analysis

The samples were analyzed for aldehydes according to EPA Method TO-11A using high performance liquid chromatography (HPLC).

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Environmental Health & Engineering, Inc.
Project: 16512

Service Request: P0903086

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P0903086-001	104277	8/26/09	00:00
P0903086-002	104278	8/26/09	00:00
P0903086-003	104281	8/26/09	00:00
P0903086-004	104280	8/26/09	00:00
P0903086-005	104279	8/26/09	00:00

CHAIN OF CUSTODY FORM

DATE: 8/26/09

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

PO0903086

TO: Columbia Analytical

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 # 16512

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

For EH & E Data Coordinator - URGENT DATA

Table with columns: SAMPLE ID, SAMPLE TYPE, ANALYTICAL METHOD/NUMBER, OTHER: Time/Date/Vol. (L)

Special instructions:

- Standard turn around time, Rush by, Other, Fax results, RETURN SAMPLES, Electronic transfer, Additional report recipient

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

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 9/1/09
Received by: [Signature] of (company name) CHS Date: 8/2/09

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc.

Work order: P0903086

Project: 16512

Sample(s) received on: 09/02/09

Date opened: 09/02/09

by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | | Yes | No | N/A |
|----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 | Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Container(s) supplied by CAS ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 | Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Was the chain-of-custody properly completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 10 | Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Trip blank supplied by CAS: _____ | | | |
| 11 | Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 | Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 | Tubes: Are the tubes capped and intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | Do they contain moisture? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 14 | Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0903086-001.01	Silica Gel DNPH Tube					
P0903086-002.01	Silica Gel DNPH Tube					
P0903086-003.01	Silica Gel DNPH Tube					
P0903086-004.01	Silica Gel DNPH Tube					
P0903086-005.01	Silica Gel DNPH Tube					

Explain any discrepancies: (include lab sample ID numbers): _____

Chain of Custody is missing time collected _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12); P0903086_Environmental Health & Engineering, Inc._16512 - Page 1 of 1

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 104277

Client Project ID: 16512

CAS Project ID: P0903086

CAS Sample ID: P0903086-001

Test Code: EPA Method TO-11A

Instrument ID: HP1050/LC2

Analyst: Madeleine Dangazyan

Sampling Media: Silica Gel DNPH Tube

Test Notes: BC

Date Collected: 8/26/09

Date Received: 9/2/09

Date Analyzed: 9/11/09

Desorption Volume: 1.0 ml

Volume Sampled: NA Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	NA	NA	NA	NA	
75-07-0	Acetaldehyde	< 100	NA	NA	NA	NA	
123-38-6	Propionaldehyde	< 100	NA	NA	NA	NA	
4170-30-3	Crotonaldehyde, Total	< 100	NA	NA	NA	NA	
123-72-8	Butyraldehyde	< 100	NA	NA	NA	NA	
100-52-7	Benzaldehyde	< 100	NA	NA	NA	NA	
590-86-3	Isovaleraldehyde	< 100	NA	NA	NA	NA	
110-62-3	Valeraldehyde	< 100	NA	NA	NA	NA	
529-20-4	o-Tolualdehyde	< 100	NA	NA	NA	NA	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	NA	NA	NA	NA	
66-25-1	n-Hexaldehyde	< 100	NA	NA	NA	NA	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	NA	NA	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

NA = Not applicable.

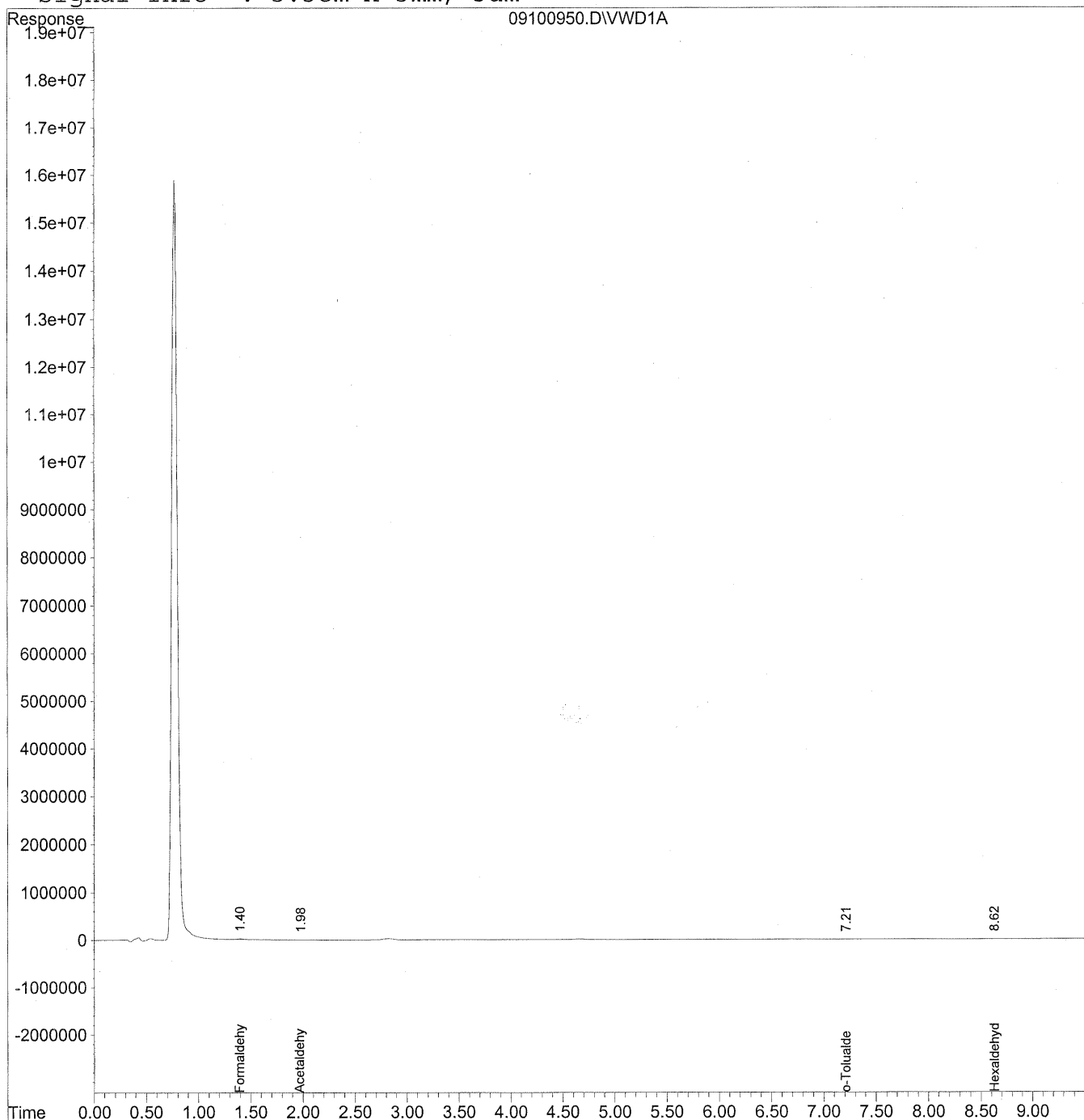
Verified By: _____ Date: 9/17/09 **7**

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100950.D Vial: 126
Acq On : 11-Sep-2009, 11:30 Operator: MD
Sample : P0903086-001 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:43 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100950.D Vial: 126
 Acq On : 11-Sep-2009, 11:30 Operator: MD
 Sample : P0903086-001 front 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:43 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

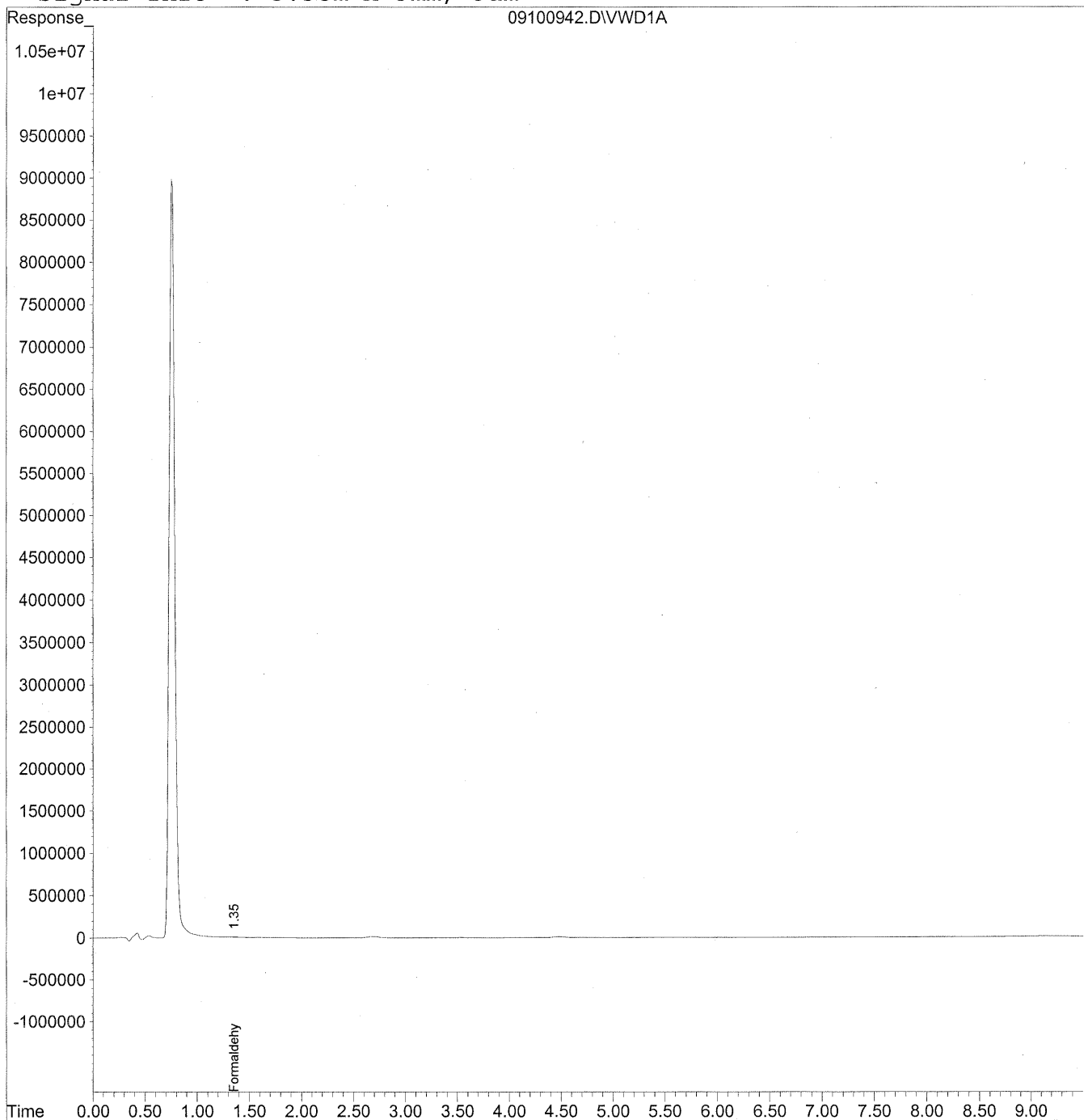
Target Compounds			
1) Formaldehyde	1.40	562893	62.996 ng/ml
2) Acetaldehyde	1.97	138093	21.243 ng/ml
3) Propionaldehyde	0.00	0	N.D. ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	0.00	0	N.D. ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	0.00	0	N.D. ng/ml
9) o-Tolualdehyde	7.22f	57935	26.399 ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.63	66832	22.573 ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100942.D Vial: 121
Acq On : 11-Sep-2009, 09:55 Operator: MD
Sample : P0903086-001 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100942.D Vial: 121
 Acq On : 11-Sep-2009, 09:55 Operator: MD
 Sample : P0903086-001 back 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 11:12:09 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.35	257134	28.777 ng/ml
2) Acetaldehyde	0.00	0	N.D. ng/ml
3) Propionaldehyde	0.00	0	N.D. ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	0.00	0	N.D. ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	0.00	0	N.D. ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	0.00	0	N.D. ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 104278

Client Project ID: 16512

CAS Project ID: P0903086

CAS Sample ID: P0903086-002

Test Code: EPA Method TO-11A

Instrument ID: HP1050/LC2

Analyst: Madeleine Dangazyan

Sampling Media: Silica Gel DNPH Tube

Test Notes: BC

Date Collected: 8/26/09

Date Received: 9/2/09

Date Analyzed: 9/11/09

Desorption Volume: 1.0 ml

Volume Sampled: 105.4 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	22,000	210	0.95	170	0.77	
75-07-0	Acetaldehyde	3,400	32	0.95	18	0.53	BT
123-38-6	Propionaldehyde	550	5.2	0.95	2.2	0.40	
4170-30-3	Crotonaldehyde, Total	< 100	ND	0.95	ND	0.33	
123-72-8	Butyraldehyde	420	4.0	0.95	1.3	0.32	
100-52-7	Benzaldehyde	950	9.0	0.95	2.1	0.22	
590-86-3	Isovaleraldehyde	350	3.4	0.95	0.95	0.27	
110-62-3	Valeraldehyde	1,900	18	0.95	5.2	0.27	
529-20-4	o-Tolualdehyde	< 100	ND	0.95	ND	0.19	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	1.9	ND	0.39	
66-25-1	n-Hexaldehyde	10,000	98	0.95	24	0.23	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	0.95	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

BT = Results indicated possible breakthrough; back section > 10% front section.

Verified By: _____

Date: _____

9/17/09

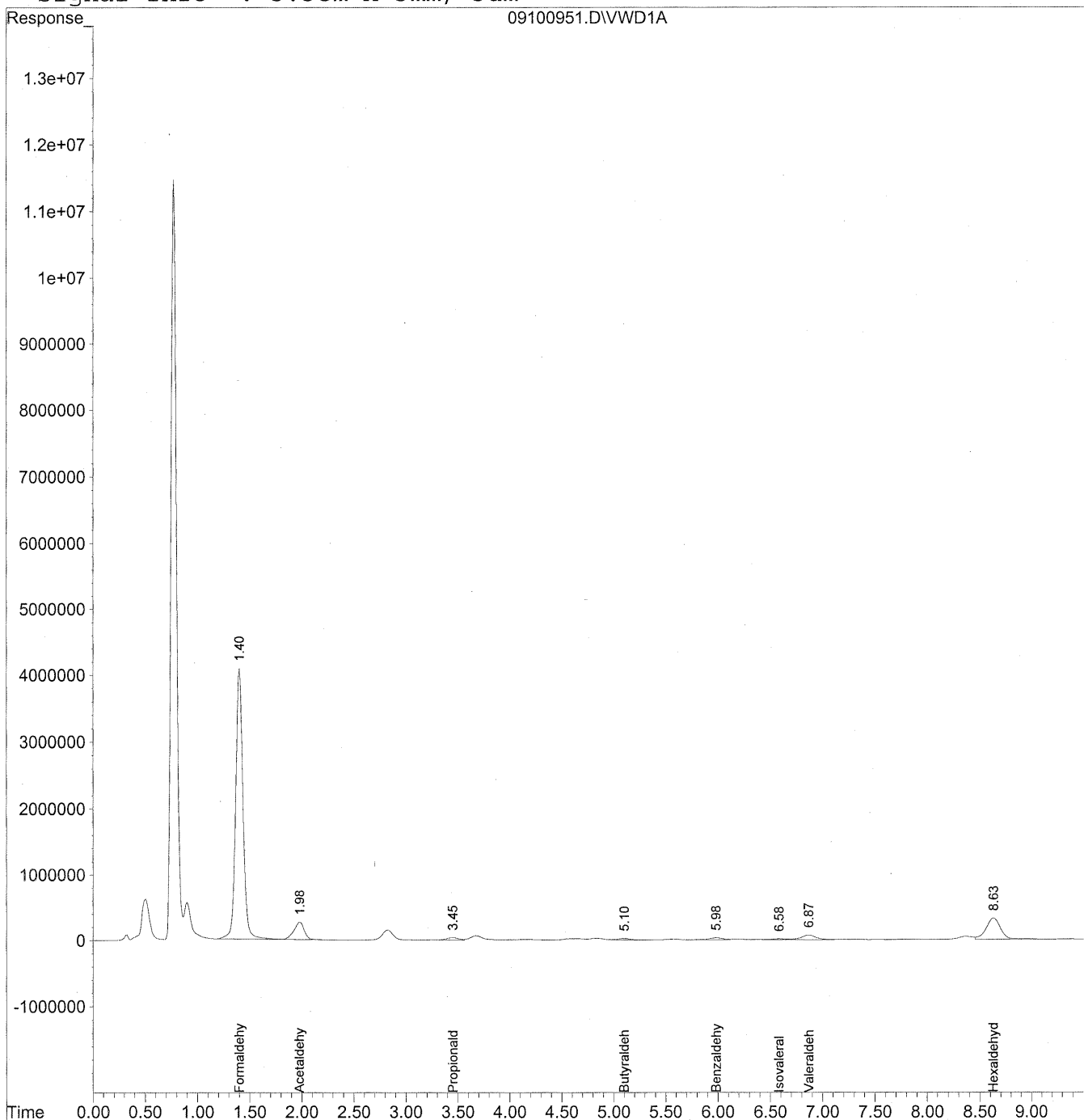
P

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
Acq On : 11-Sep-2009, 11:42 Operator: MD
Sample : P0903086-002 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:44 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
 Acq On : 11-Sep-2009, 11:42 Operator: MD
 Sample : P0903086-002 front 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:44 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

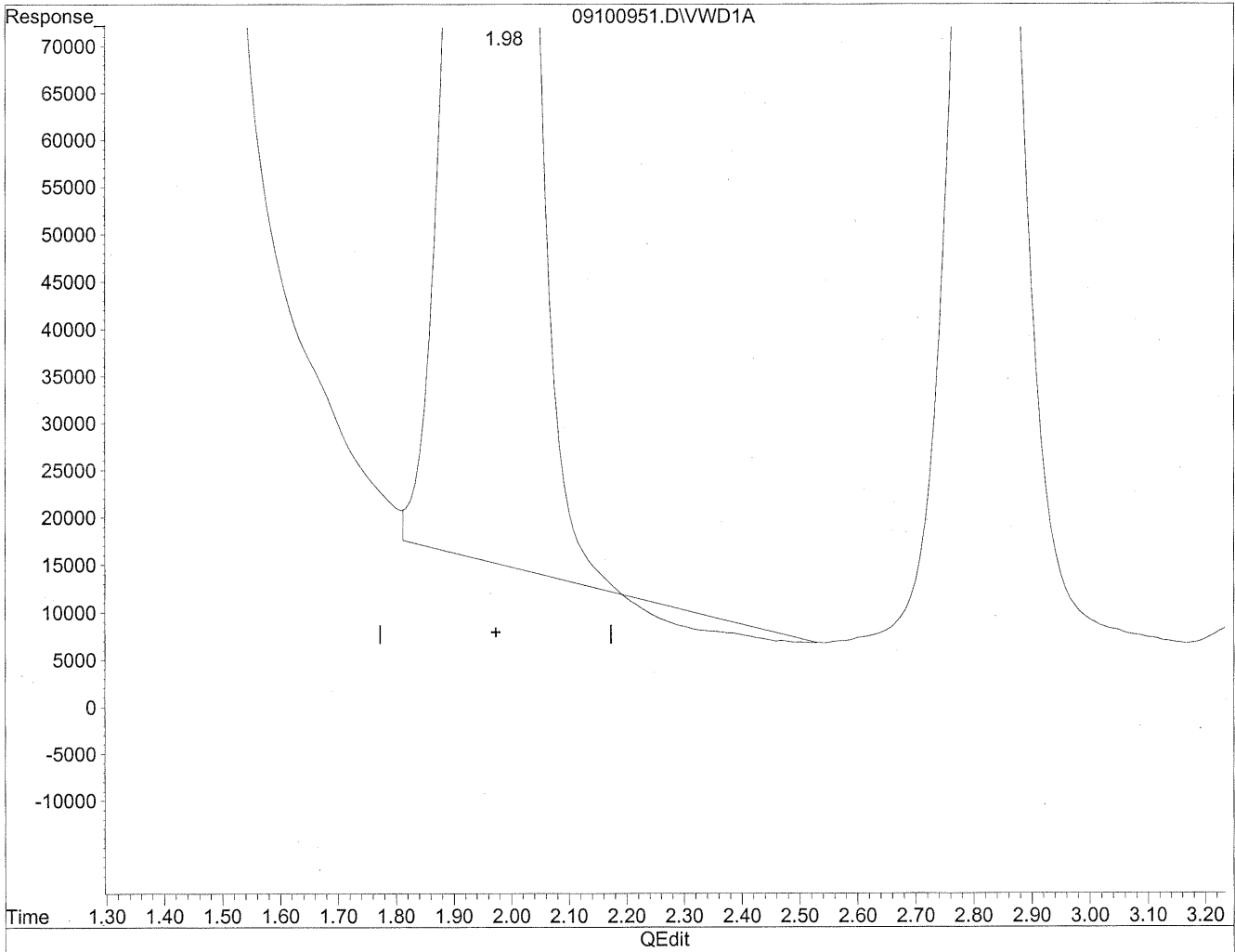
Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units
Target Compounds			
1) Formaldehyde	1.40	199876925	22369.030 ng/ml <i>DIC</i>
2) Acetaldehyde	1.98	18716960	2879.179 ng/mlm
3) Propionaldehyde	3.45	2859901	550.211 ng/mlm
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	5.10	1690820	417.201 ng/ml
6) Benzaldehyde	5.98	2595871	951.434 ng/ml
7) Isovaleraldehyde	6.58	1216598	353.479 ng/mlm
8) Valeraldehyde	6.87	6611222	1944.683 ng/mlm
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.63	30750751	10386.225 ng/ml <i>DIC</i>
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

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Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

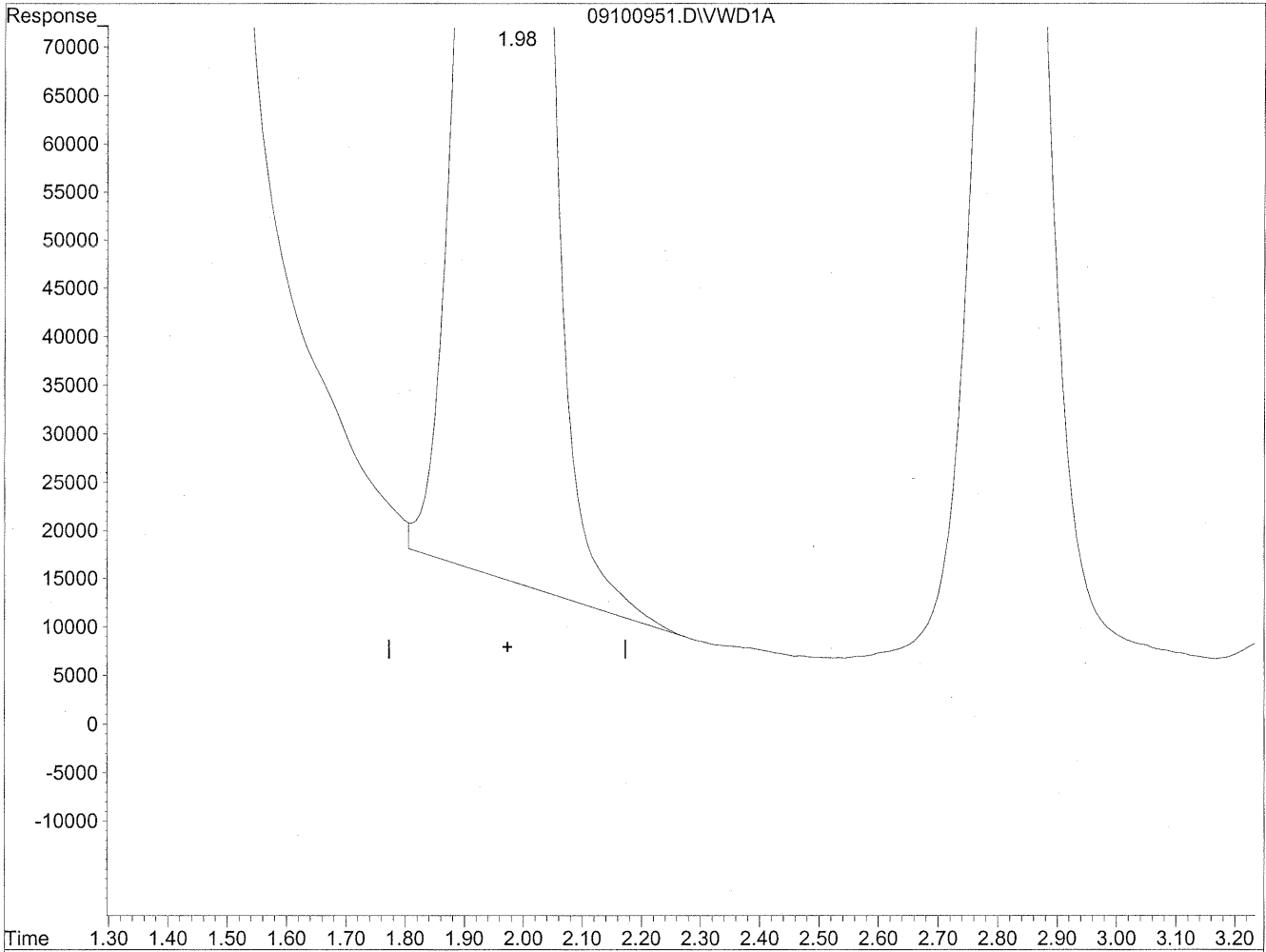


(2) Acetaldehyde
1.98min 2829.212ng/ml
response 18392133

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
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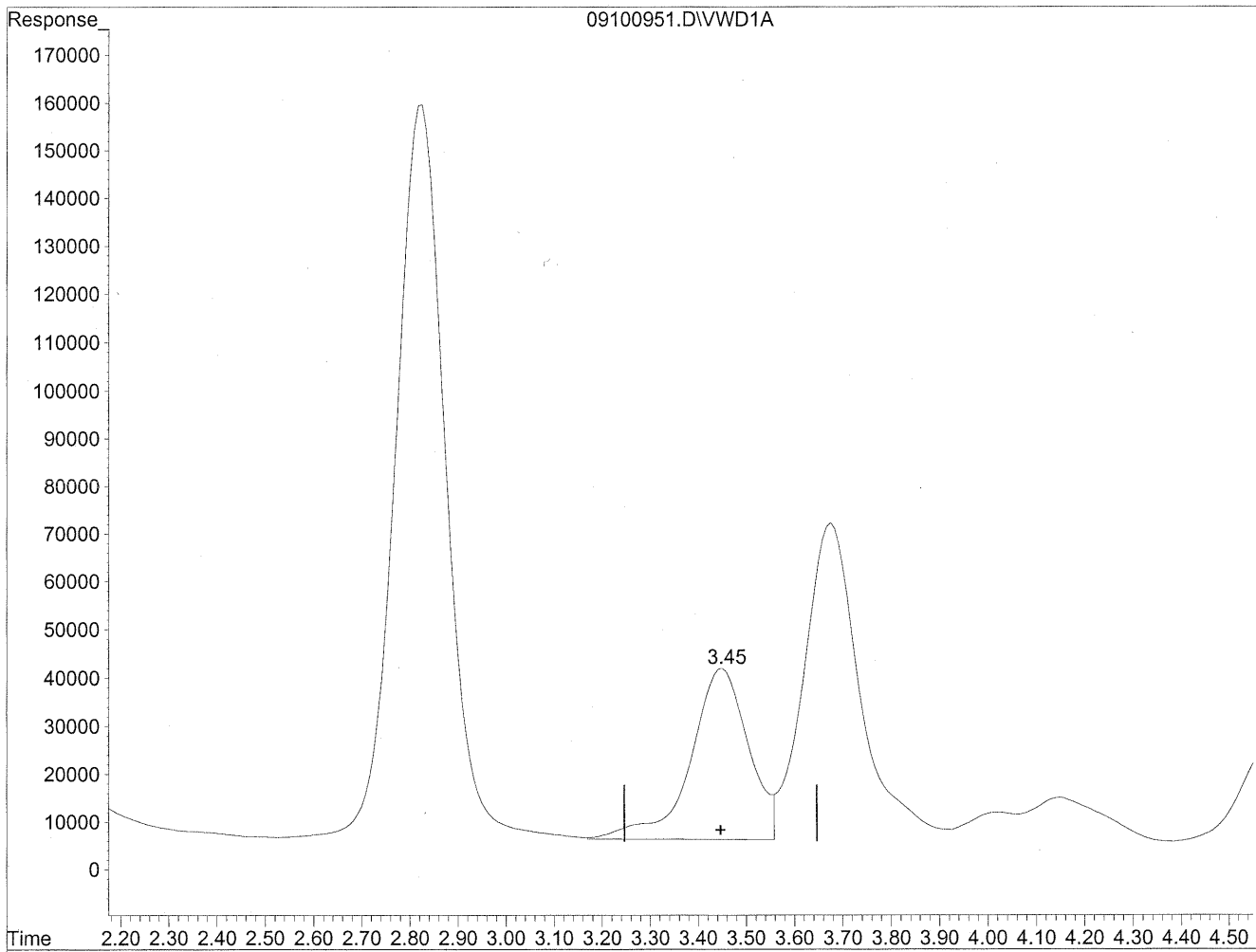
(2) Acetaldehyde
1.98min 2879.179ng/ml m
response 18716960

Handwritten notes:
① 9/16/09
HC 9/17/09

Quantitation Report

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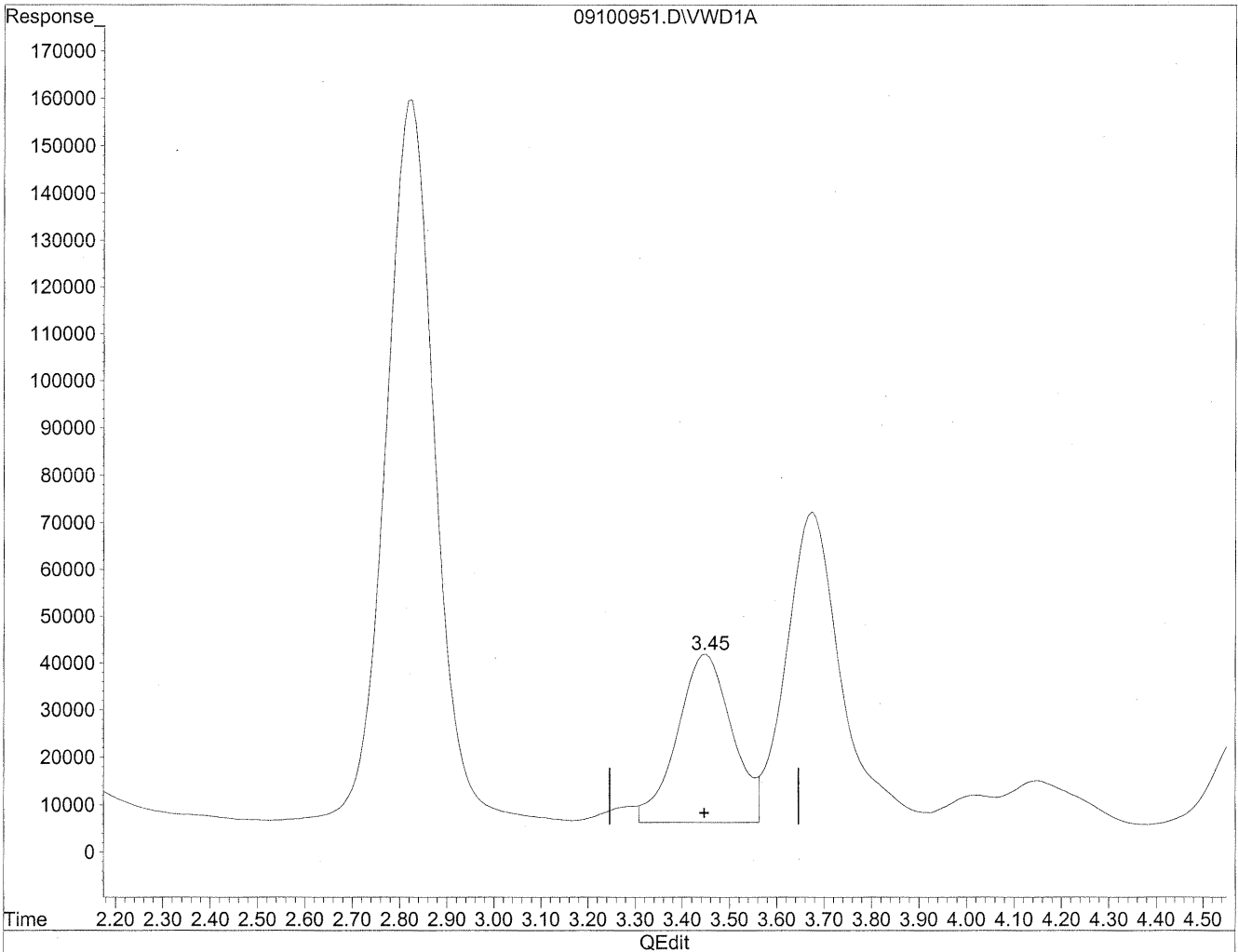


(3) Propionaldehyde
3.45min 573.365ng/ml
response 2980251

Quantitation Report

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Misc : Multiplr: 1.00
IntFile : events.e
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Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



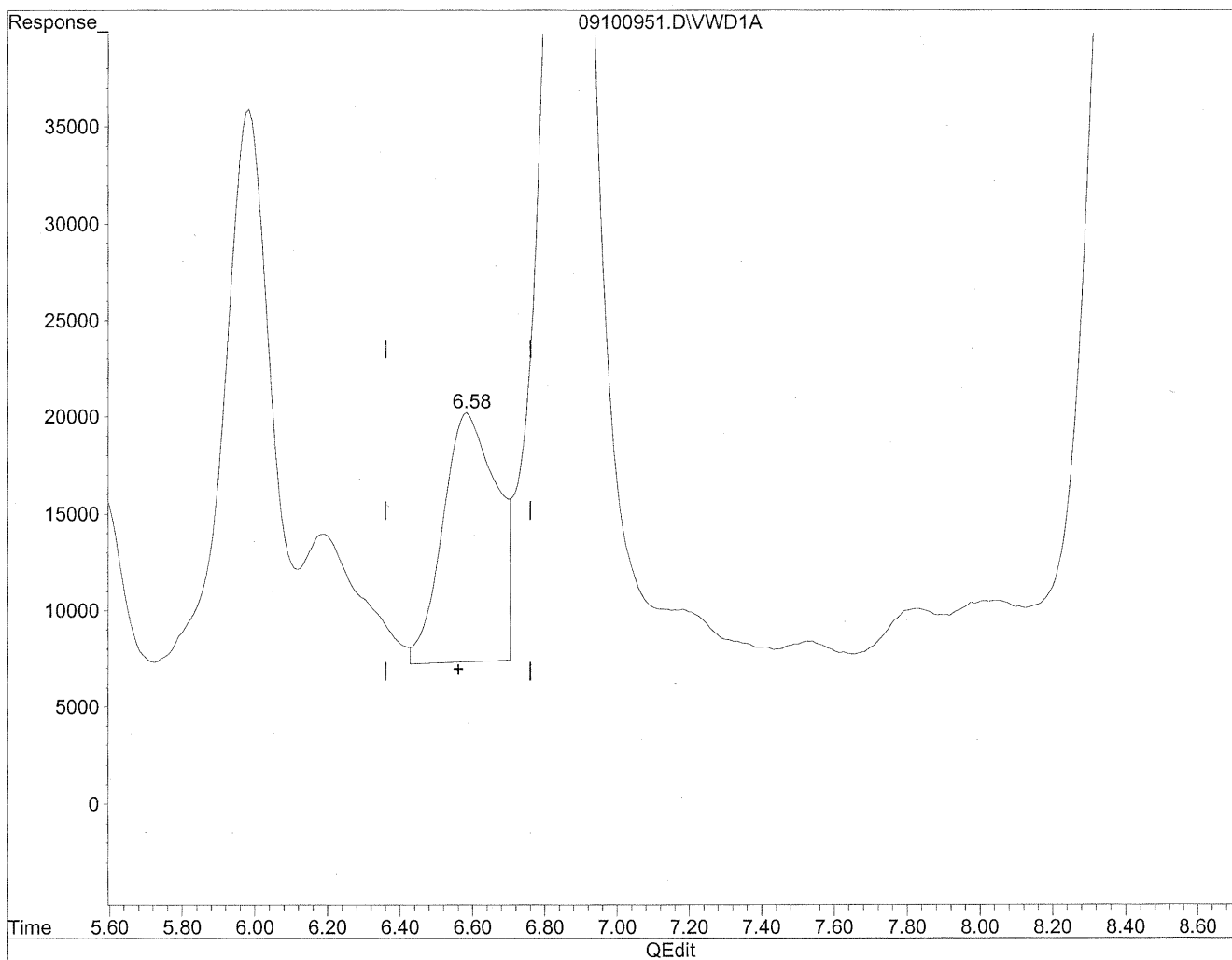
(3) Propionaldehyde
3.45min 550.211ng/ml m
response 2859901

(m)
9/16/09
sh
HE
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
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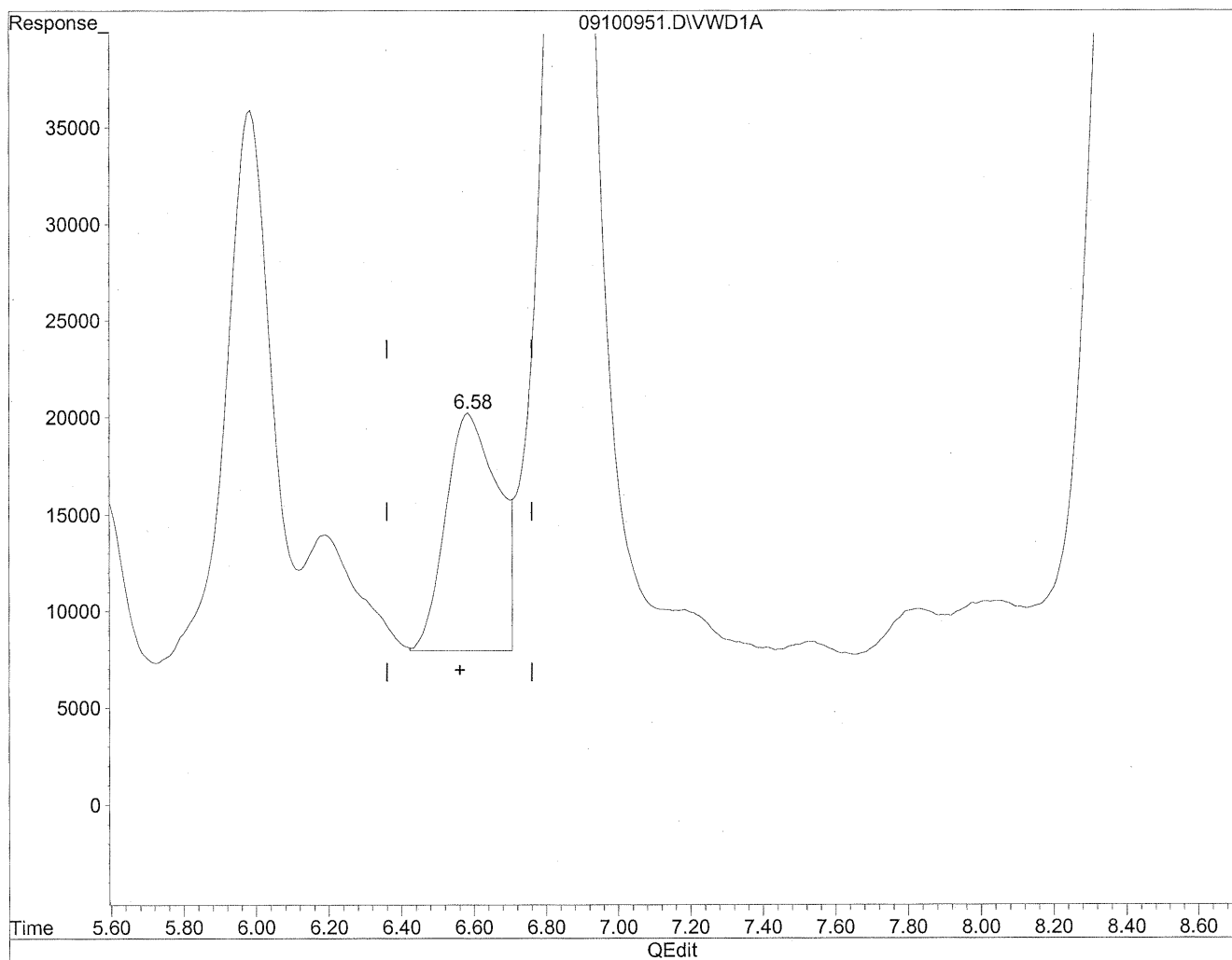


(7) Isovaleraldehyde
6.59min 381.688ng/ml
response 1313689

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
Acq On : 11-Sep-2009, 11:42 Operator: MD
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Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



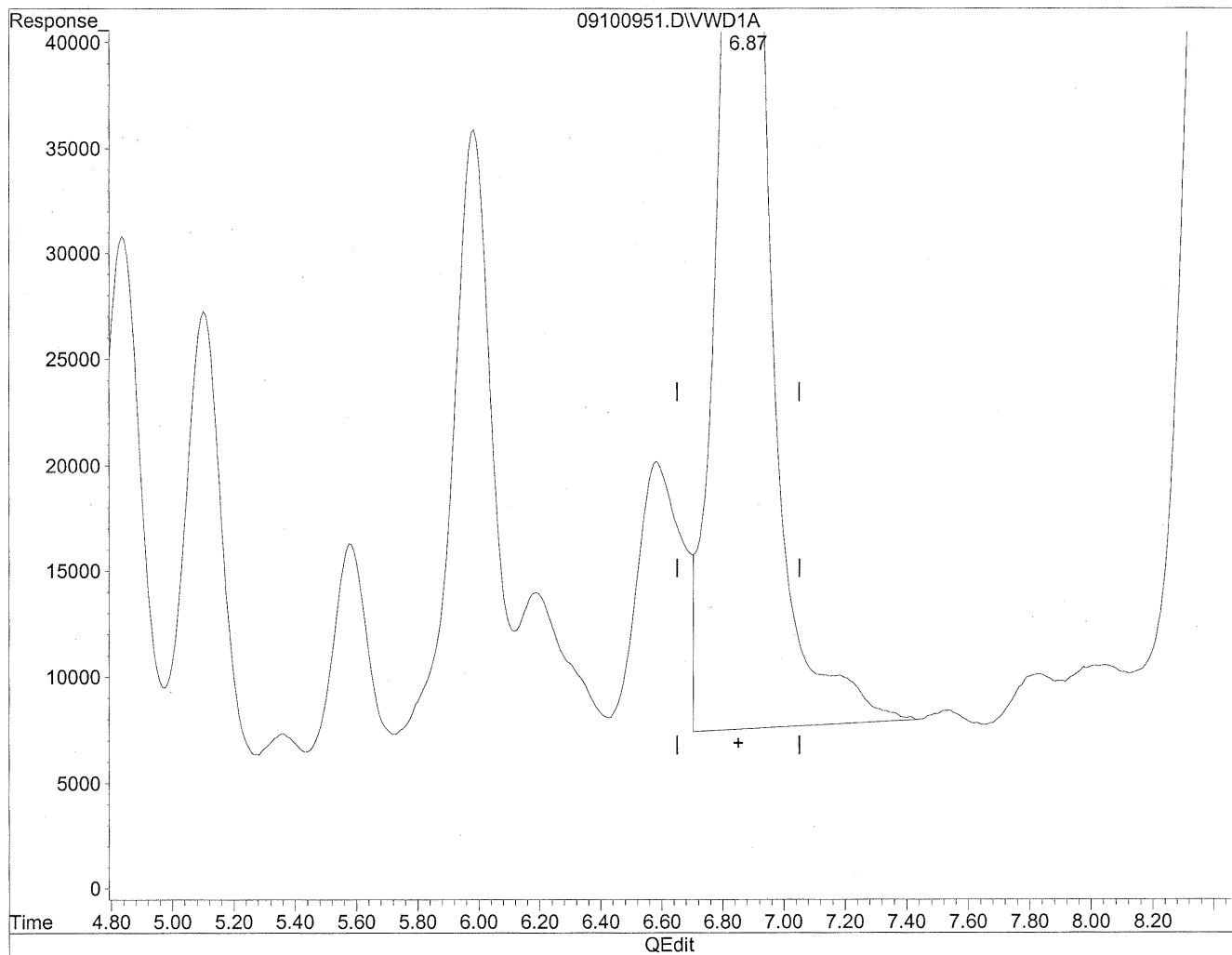
(7) Isovaleraldehyde
6.58min 353.479ng/ml m
response 1216598

(M)
9/16/09
12
He
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
Acq On : 11-Sep-2009, 11:42 Operator: MD
Sample : P0903086-002 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:43 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

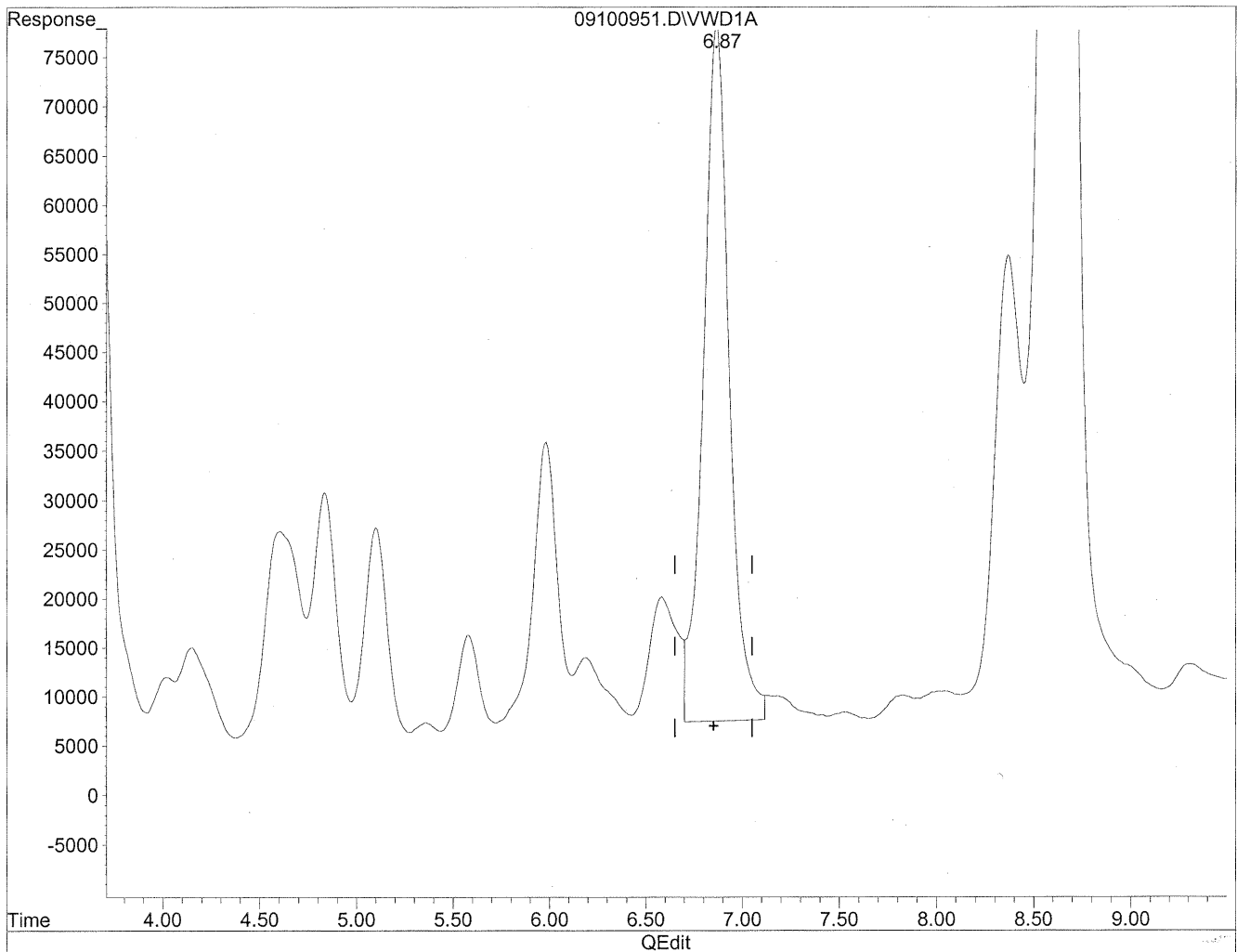


(8) Valeraldehyde
6.87min 2010.490ng/ml
response 6834942

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100951.D Vial: 127
Acq On : 11-Sep-2009, 11:42 Operator: MD
Sample : P0903086-002 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:43 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(8) Valeraldehyde
6.87min 1944.683ng/ml m
response 6611222

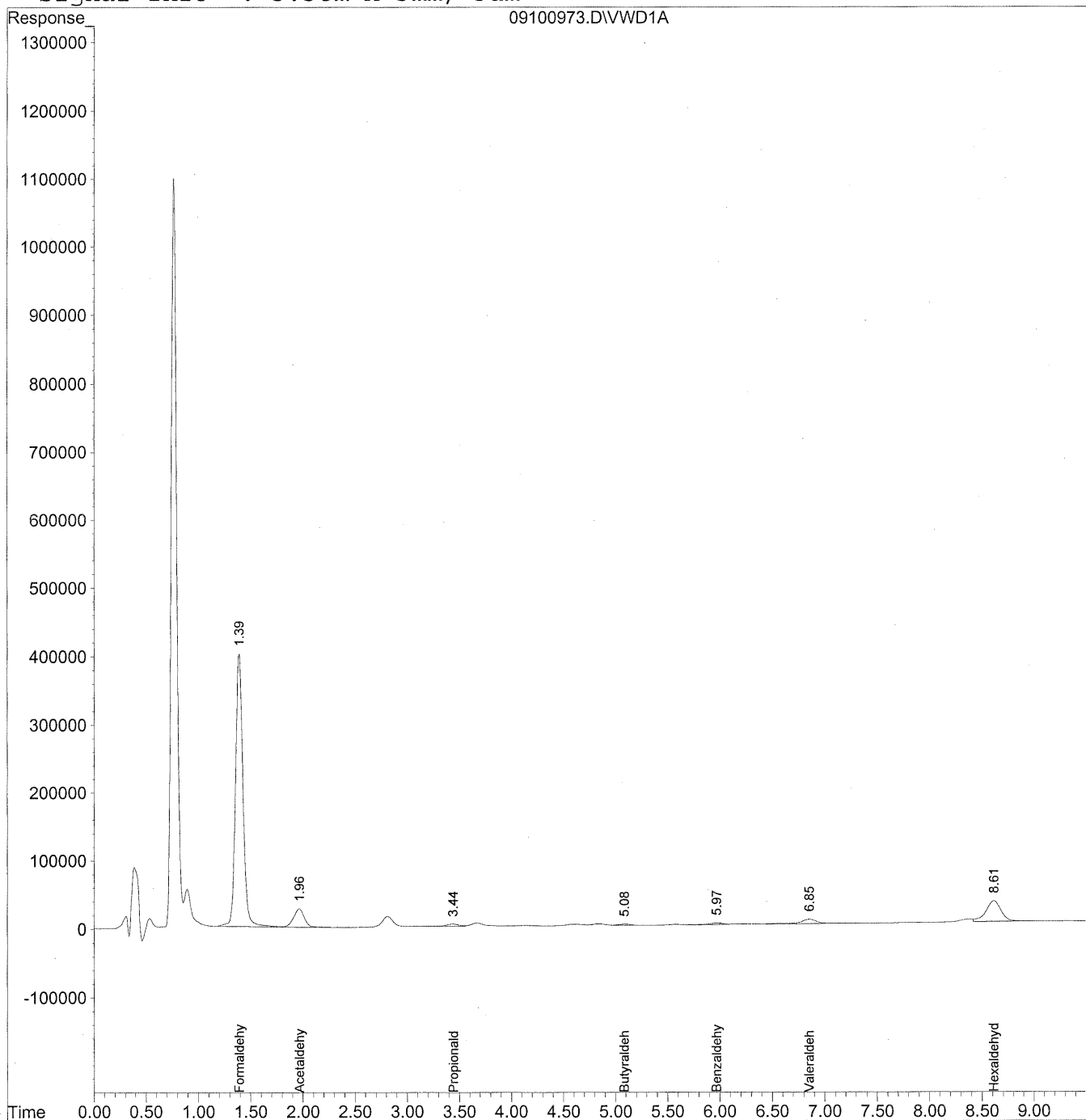
(W)
9/16/09
SH
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100973.D Vial: 9
Acq On : 11-Sep-2009, 16:04 Operator: MD
Sample : P0903086-002 front 10x dil Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 14:00 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100973.D Vial: 9
 Acq On : 11-Sep-2009, 16:04 Operator: MD
 Sample : P0903086-002 front 10x dil Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 14:00 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

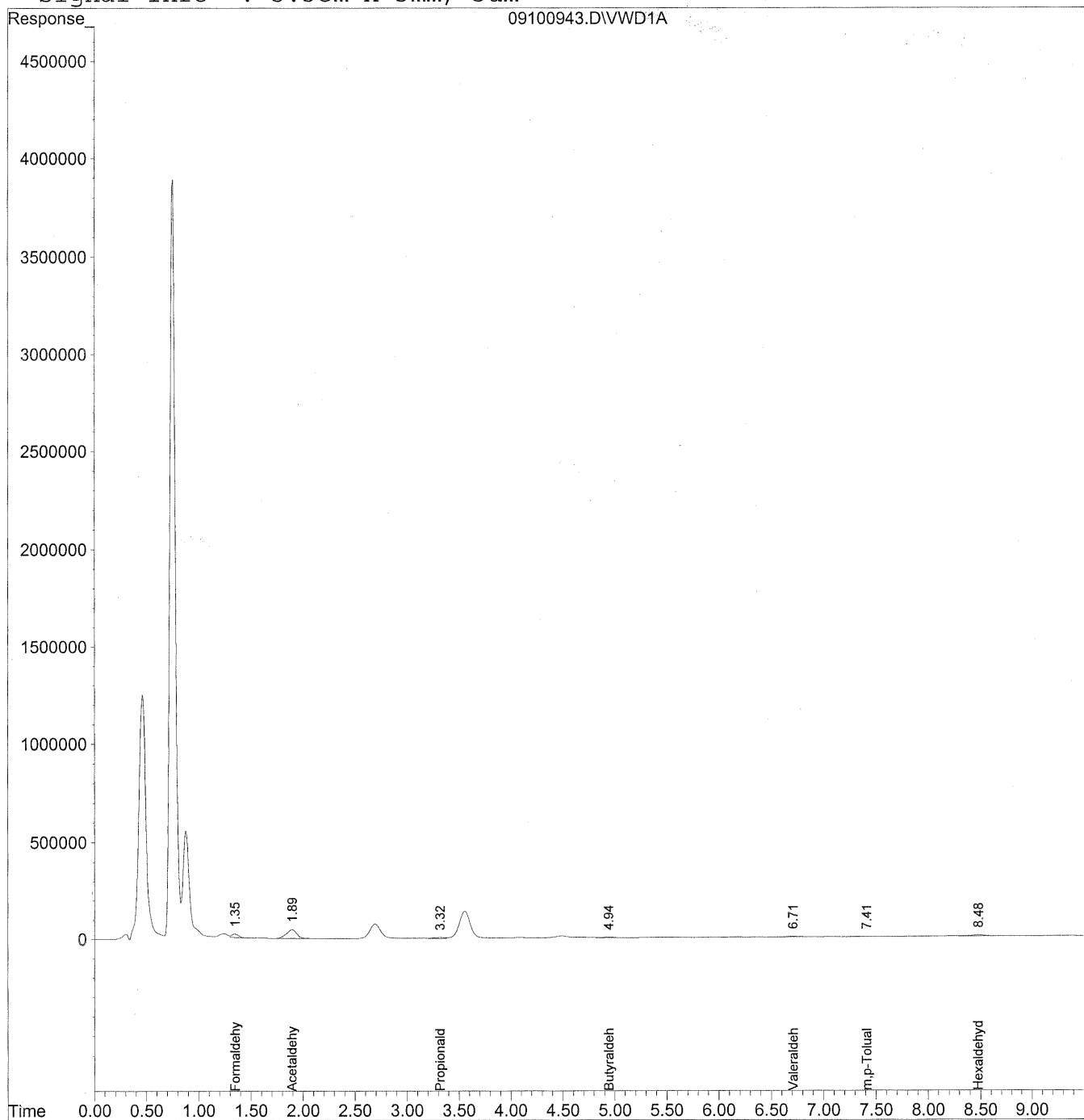
Target Compounds			
1) Formaldehyde	1.39	19845095	2220.944 ng/ml
2) Acetaldehyde	1.97	1934089	297.516 ng/ml
3) Propionaldehyde	3.44	289889	55.771 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	5.09	143339	35.368 ng/ml
6) Benzaldehyde	5.97	172715	63.303 ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	6.85	671533	197.531 ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.61	2997355	1012.372 ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:31 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
 Acq On : 11-Sep-2009, 10:07 Operator: MD
 Sample : P0903086-002 back 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:31 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 11:12:09 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

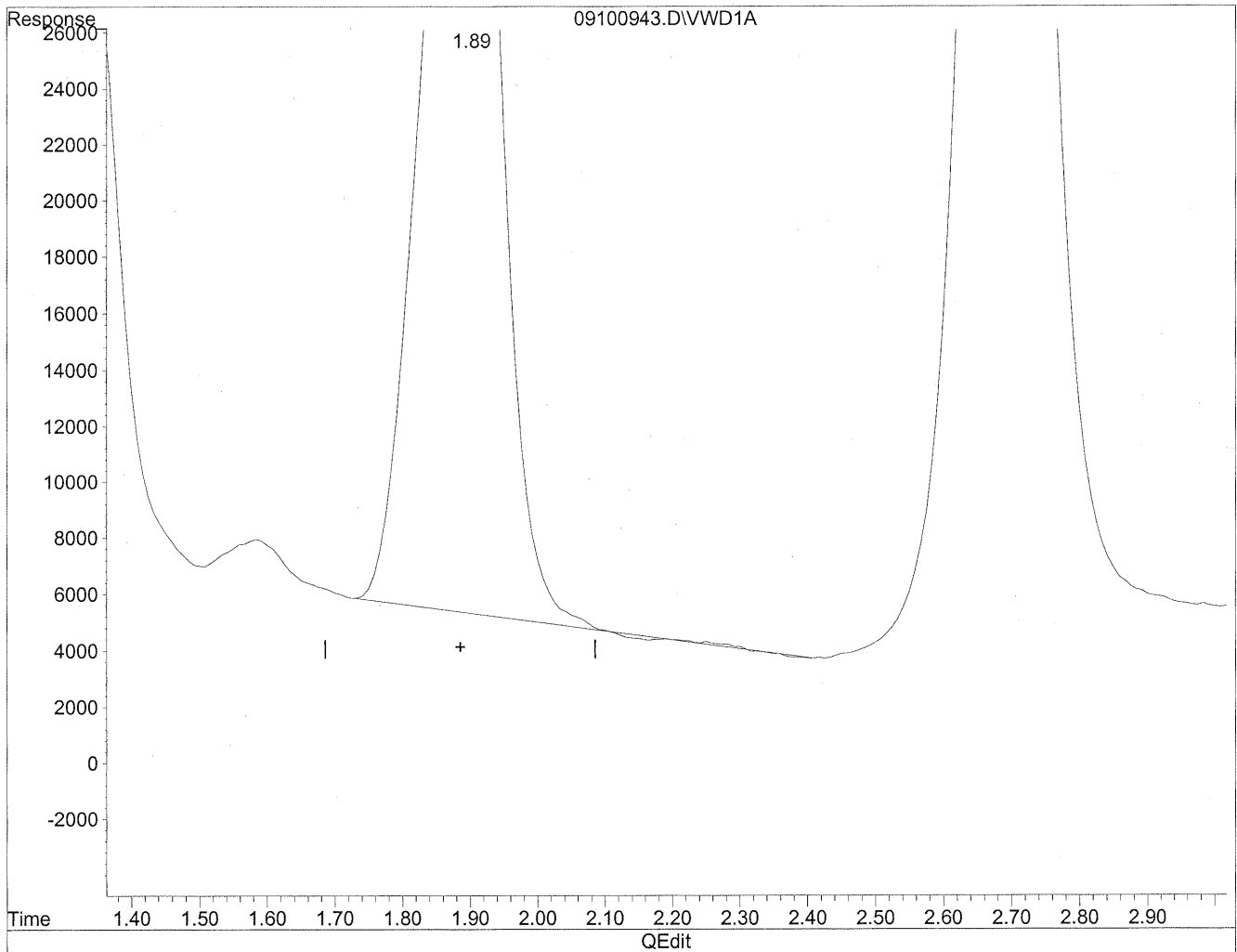
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.35	775750	86.817 ng/ml
2) Acetaldehyde	1.89	3134746	482.210 ng/mlm
3) Propionaldehyde	3.32	337317	64.896 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	4.94	237074	58.497 ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	6.71	289021	85.015 ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	7.41	30958	13.478 ng/ml
11) Hexaldehyde	8.48	517736	174.868 ng/mlm
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration

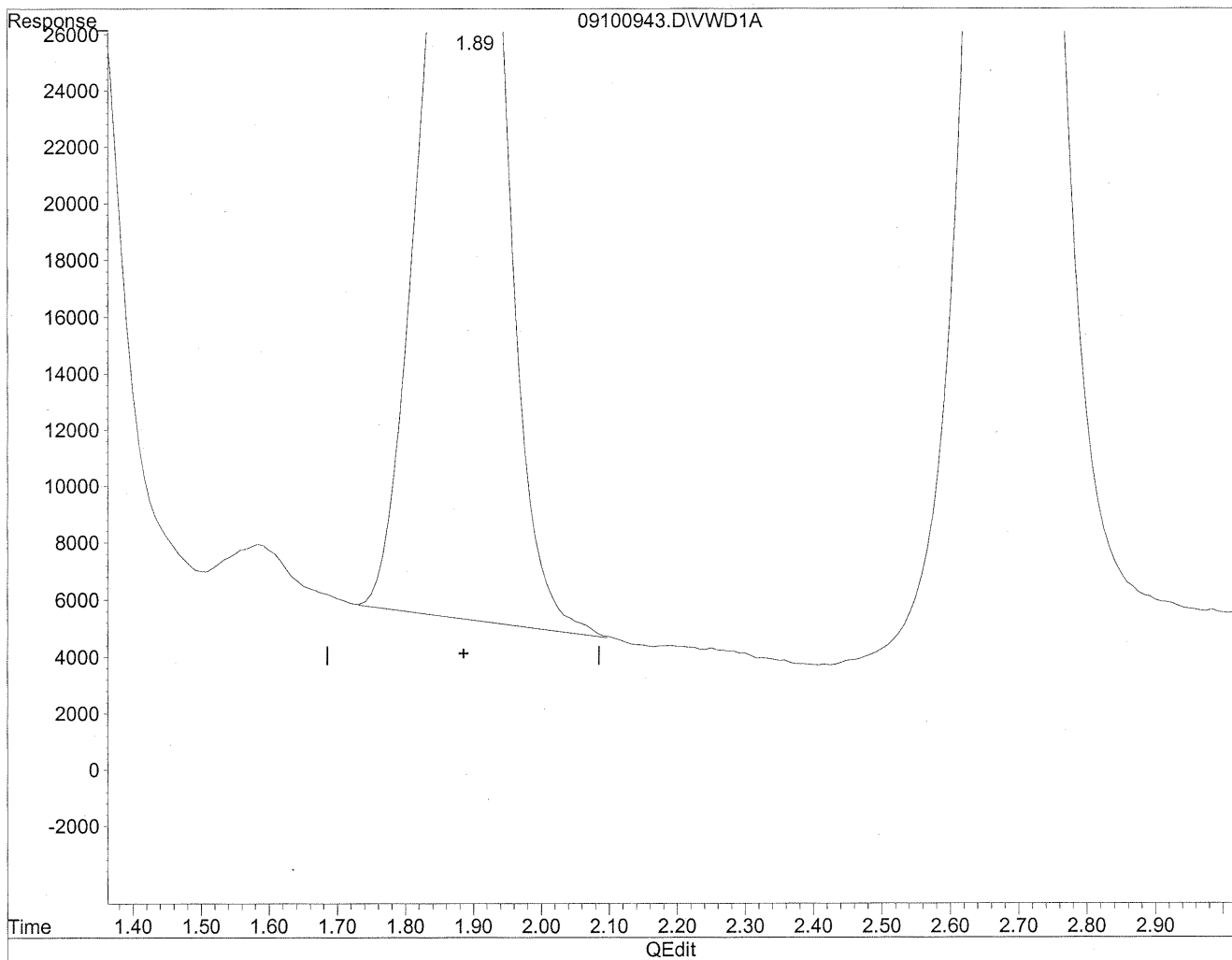


(2) Acetaldehyde
1.90min 481.714ng/ml
response 3131522

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration



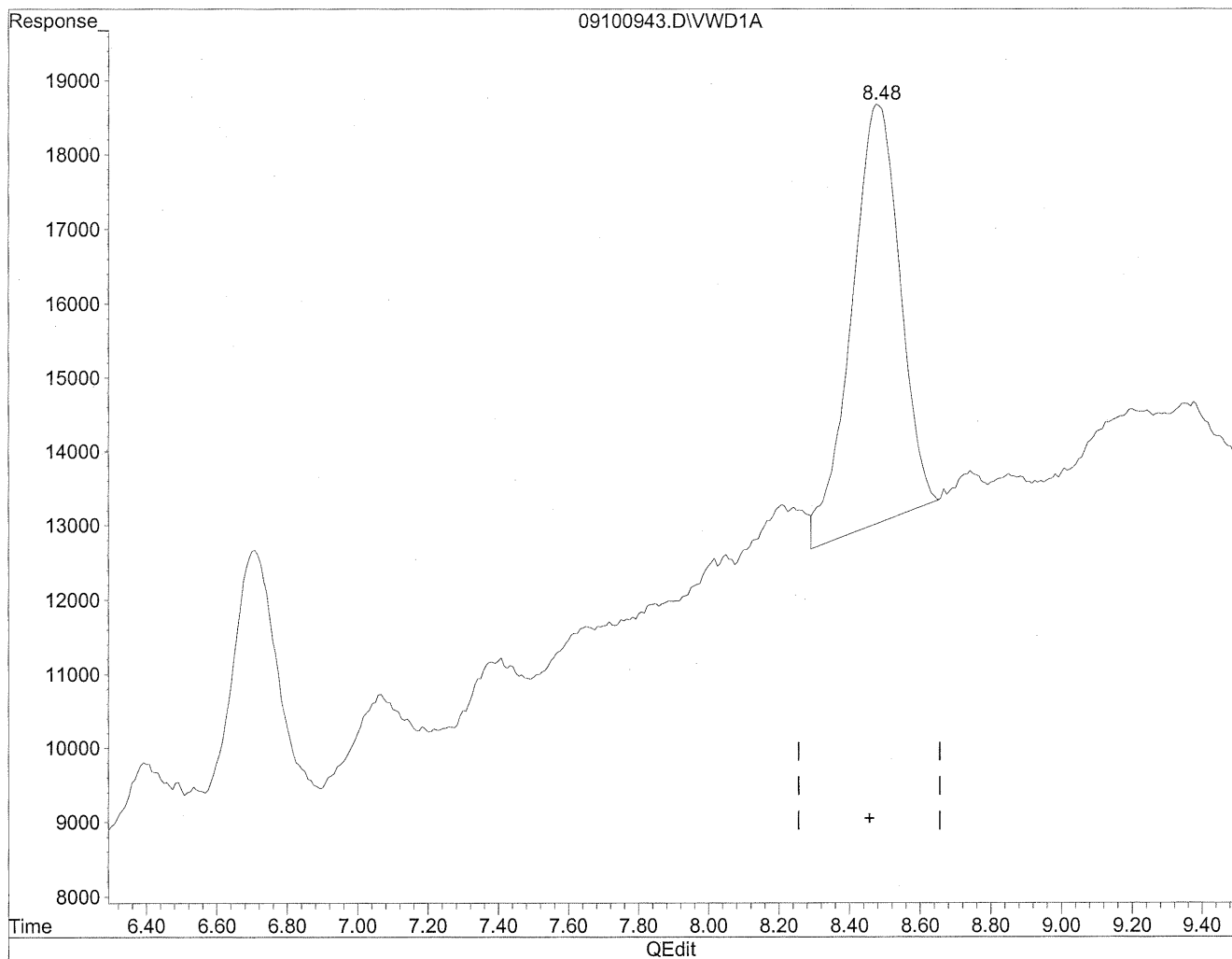
(2) Acetaldehyde
1.89min 482.210ng/ml m
response 3134746

(M)
9/16/09
12
He
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration

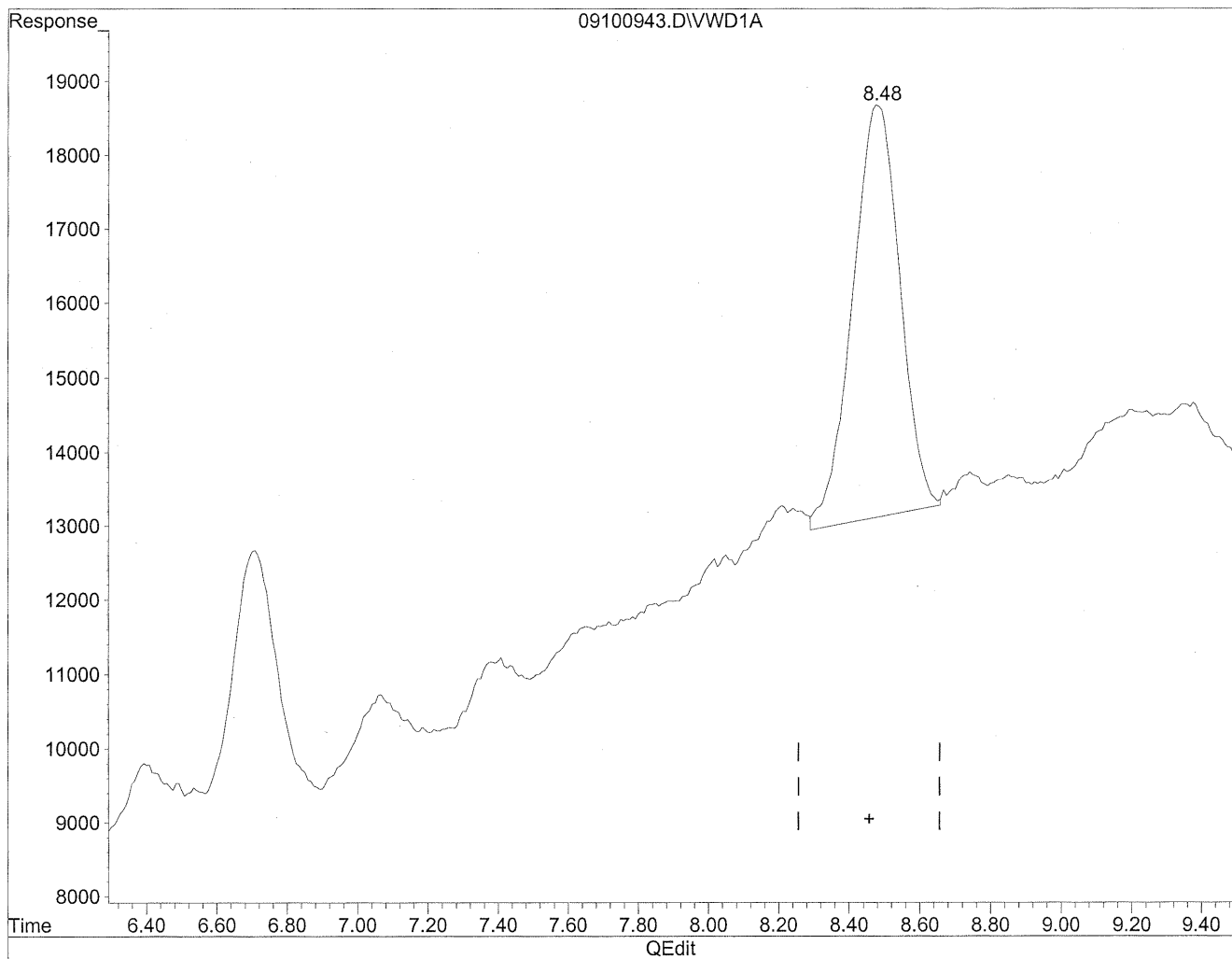


(11) Hexaldehyde
8.48min 182.166ng/ml
response 539342

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration



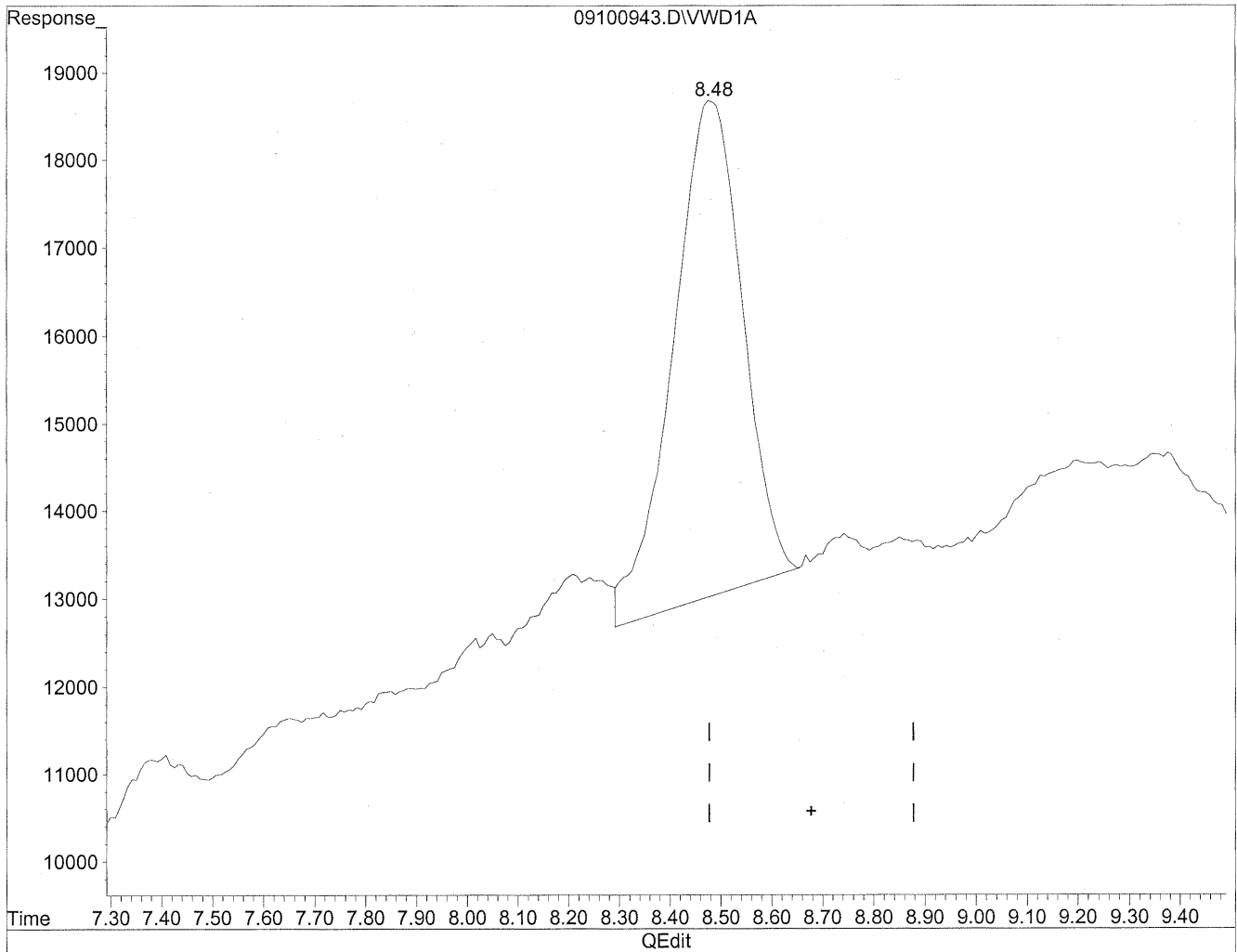
(11) Hexaldehyde
8.48min 174.868ng/ml m
response 517736

(W)
all 6/07
RZ
HC
9/17/07

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration



(12) 2,5-Dimethylbenzaldehyde

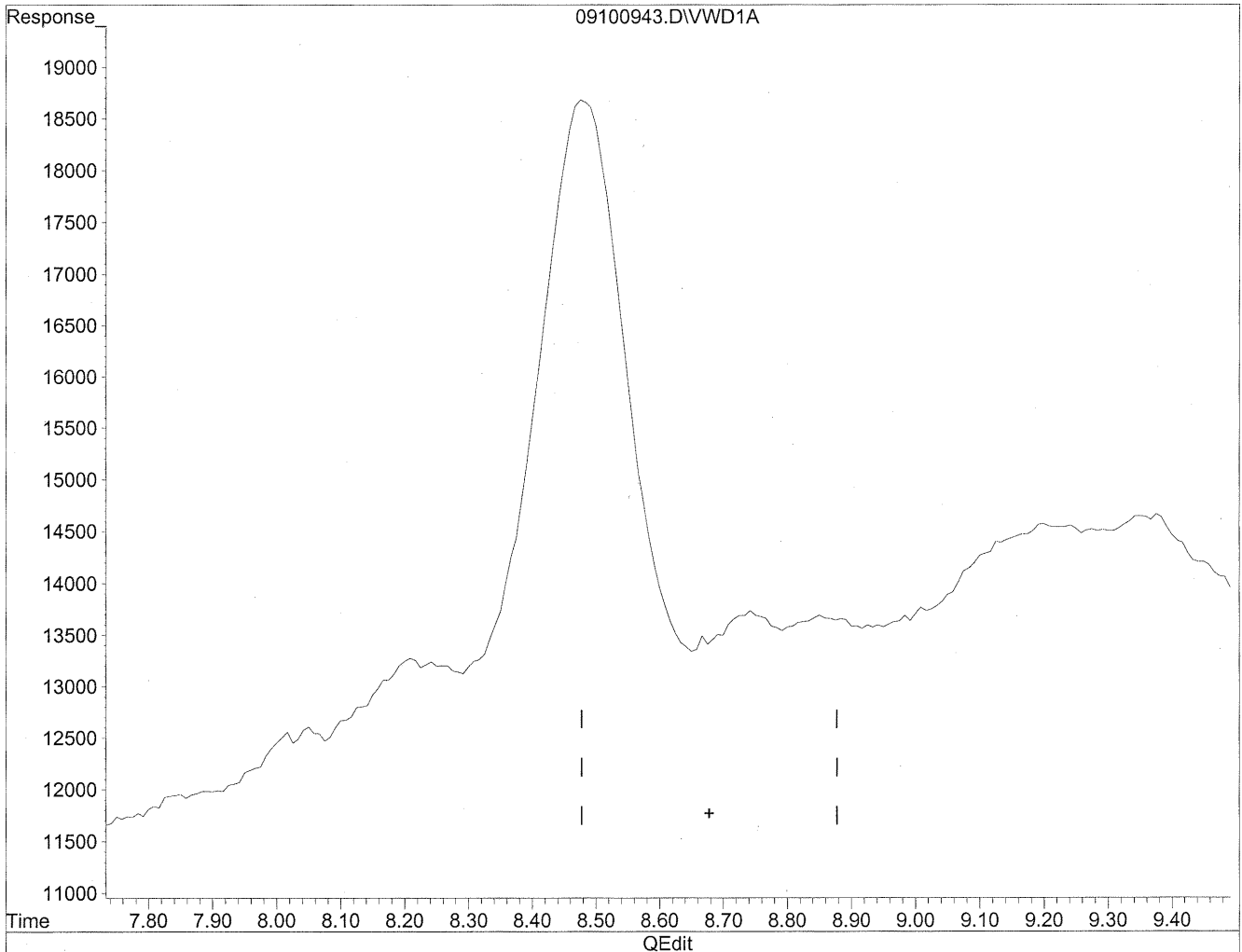
8.48min 270.280ng/ml

response 539342

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100943.D Vial: 122
Acq On : 11-Sep-2009, 10:07 Operator: MD
Sample : P0903086-002 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:30 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration



(12) 2,5-Dimethylbenzaldehyde

0.00min 0.000ng/ml d

response 0

Handwritten notes:
A circled 'm' with '9/16/09' and 'MP' written below it.
To the right, 'HC' and '9/17/09' are written.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 104281

Client Project ID: 16512

CAS Project ID: P0903086

CAS Sample ID: P0903086-003

Test Code: EPA Method TO-11A

Instrument ID: HP1050/LC2

Analyst: Madeleine Dangazyan

Sampling Media: Silica Gel DNPH Tube

Test Notes: **BC**

Date Collected: 8/26/09

Date Received: 9/2/09

Date Analyzed: 9/11/09

Desorption Volume: 1.0 ml

Volume Sampled: 112.9 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	24,000	210	0.89	170	0.72	
75-07-0	Acetaldehyde	3,500	31	0.89	17	0.49	BT
123-38-6	Propionaldehyde	550	4.9	0.89	2.1	0.37	
4170-30-3	Crotonaldehyde, Total	< 100	ND	0.89	ND	0.31	
123-72-8	Butyraldehyde	410	3.6	0.89	1.2	0.30	
100-52-7	Benzaldehyde	1,000	9.3	0.89	2.1	0.20	
590-86-3	Isovaleraldehyde	310	2.7	0.89	0.78	0.25	
110-62-3	Valeraldehyde	2,100	19	0.89	5.4	0.25	
529-20-4	o-Tolualdehyde	< 100	ND	0.89	ND	0.18	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	1.8	ND	0.36	
66-25-1	n-Hexaldehyde	11,000	97	0.89	24	0.22	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	0.89	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

BT = Results indicated possible breakthrough; back section > 10% front section.

Verified By: _____

Date: _____

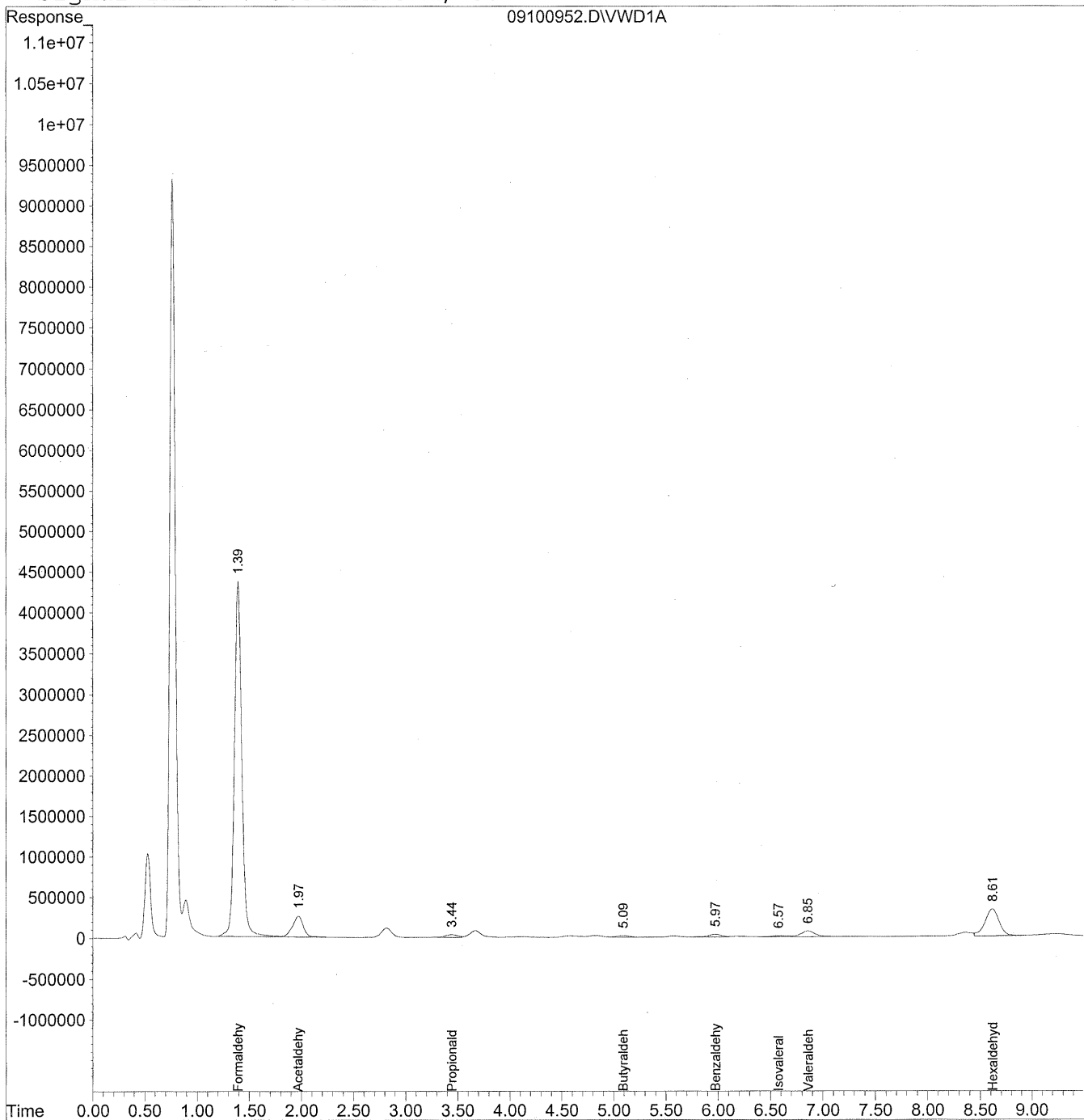
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:47 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
 Acq On : 11-Sep-2009, 11:54 Operator: MD
 Sample : P0903086-003 front 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:47 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

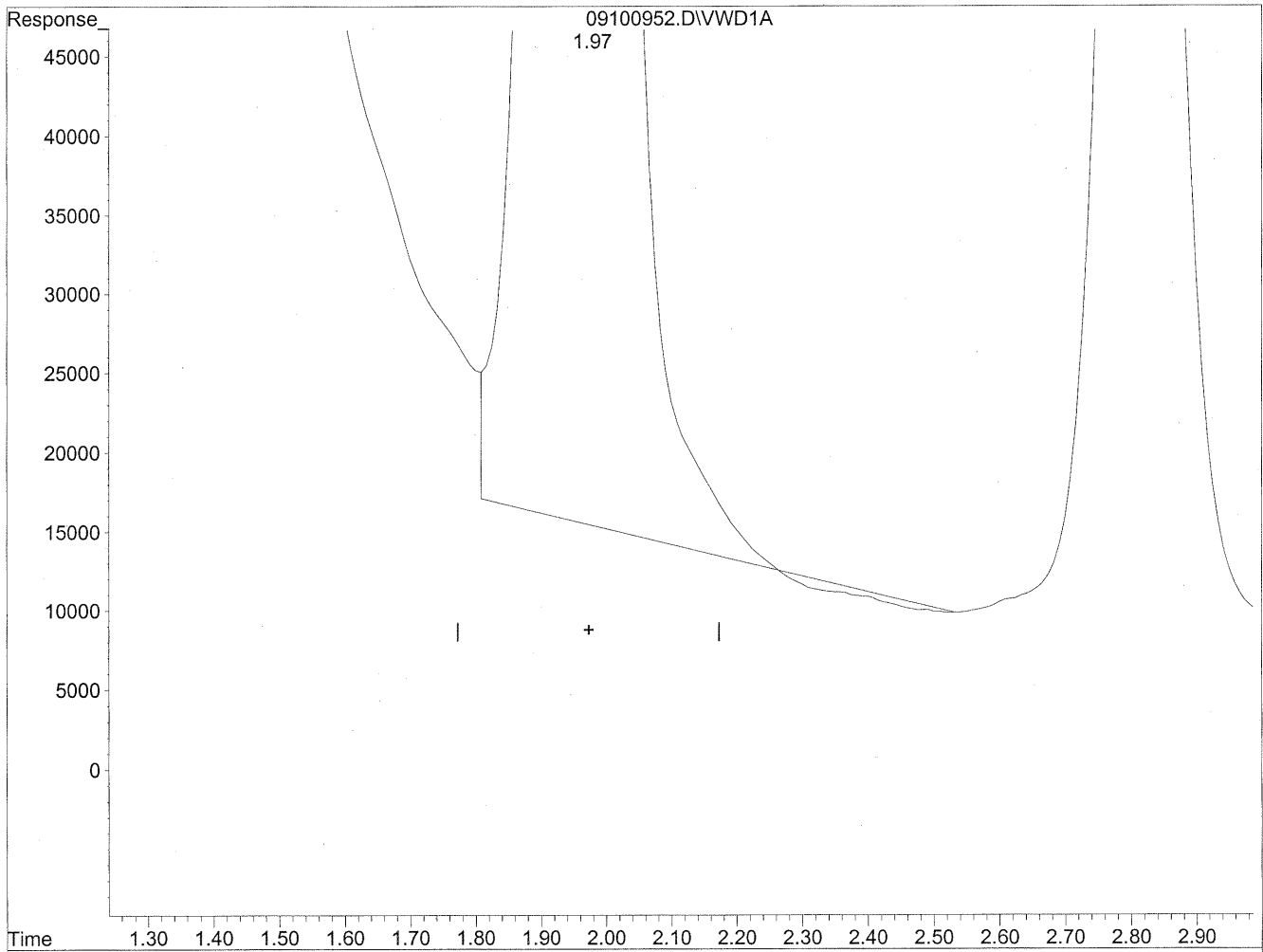
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.40	213868001	23934.828 ng/ml <i>DIC</i>
2) Acetaldehyde	1.97	18526875	2849.939 ng/mlm
3) Propionaldehyde	3.44	2857542	549.757 ng/mlm
4) Crotonaldehyde	0.00	0	N.D. ng/mld
5) Butyraldehyde	5.09	1663300	410.411 ng/mlm
6) Benzaldehyde	5.97	2851616	1045.169 ng/mlm
7) Isovaleraldehyde	6.58	1065226	309.498 ng/ml
8) Valeraldehyde	6.85	6736315	1981.479 ng/mlm
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.62	30755254	10387.746 ng/ml <i>DIC</i>
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

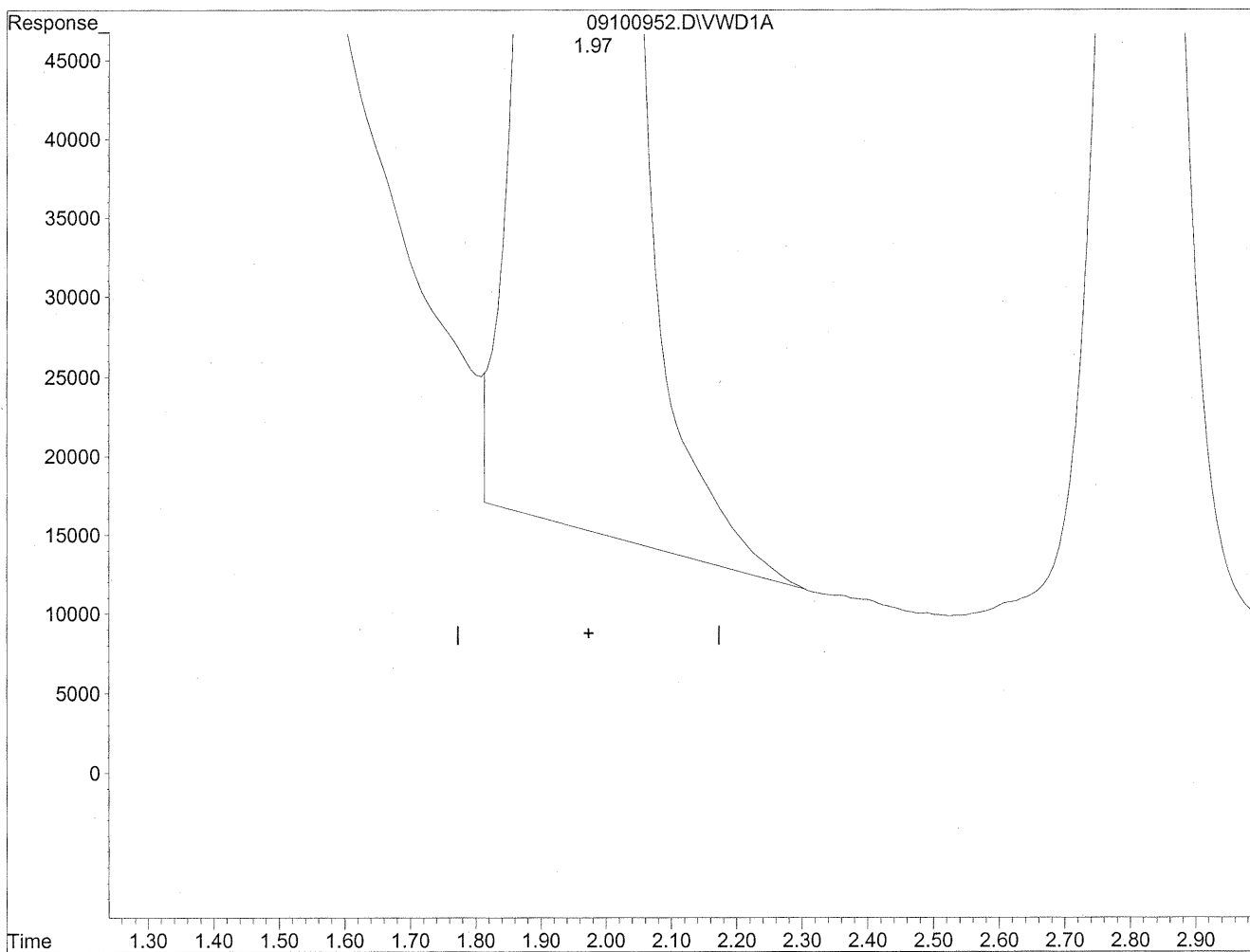


(2) Acetaldehyde
1.97min 2837.673ng/ml
response 18447137

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



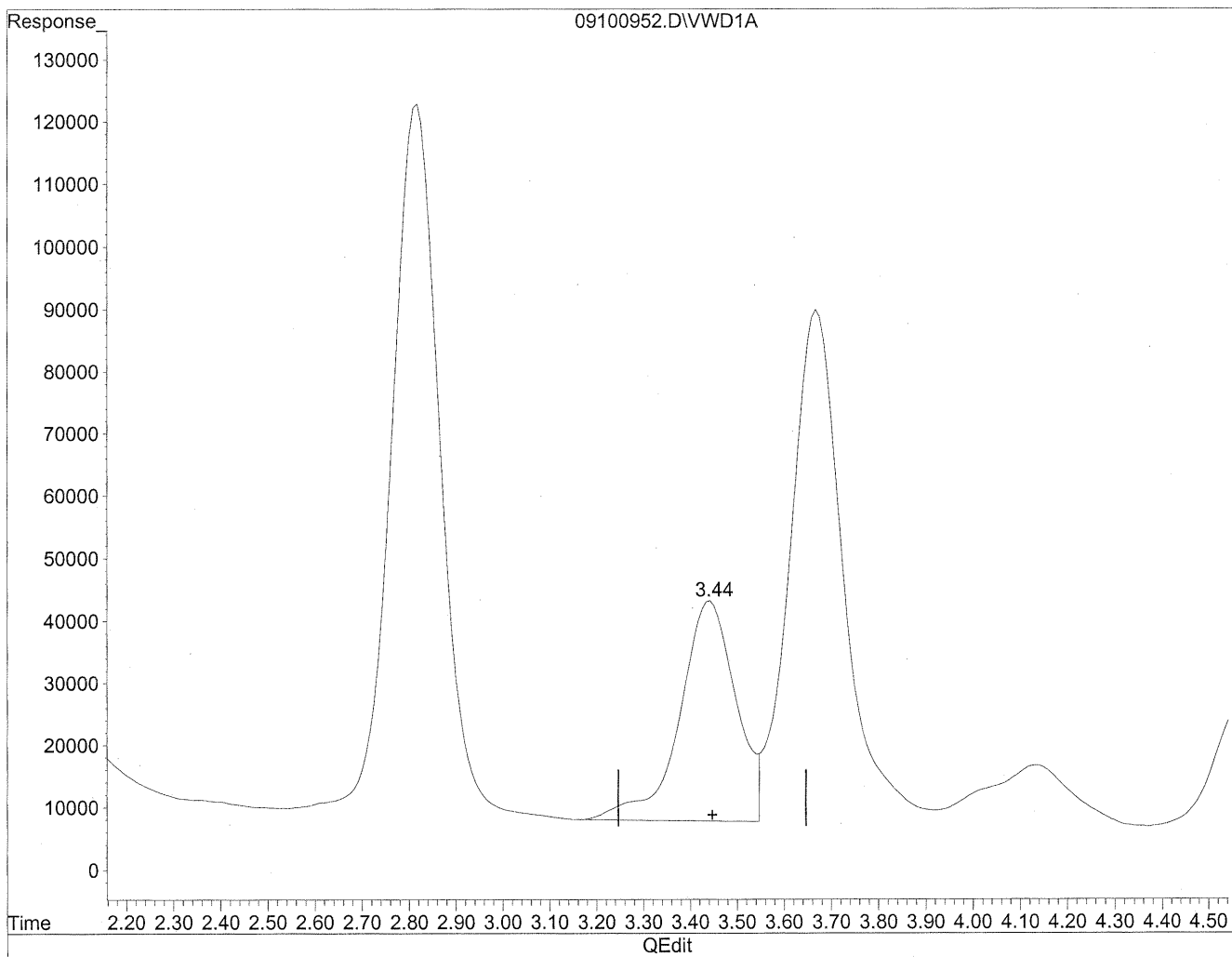
(2) Acetaldehyde
1.97min 2849.939ng/ml m
response 18526875

(m)
9/16/09
12
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

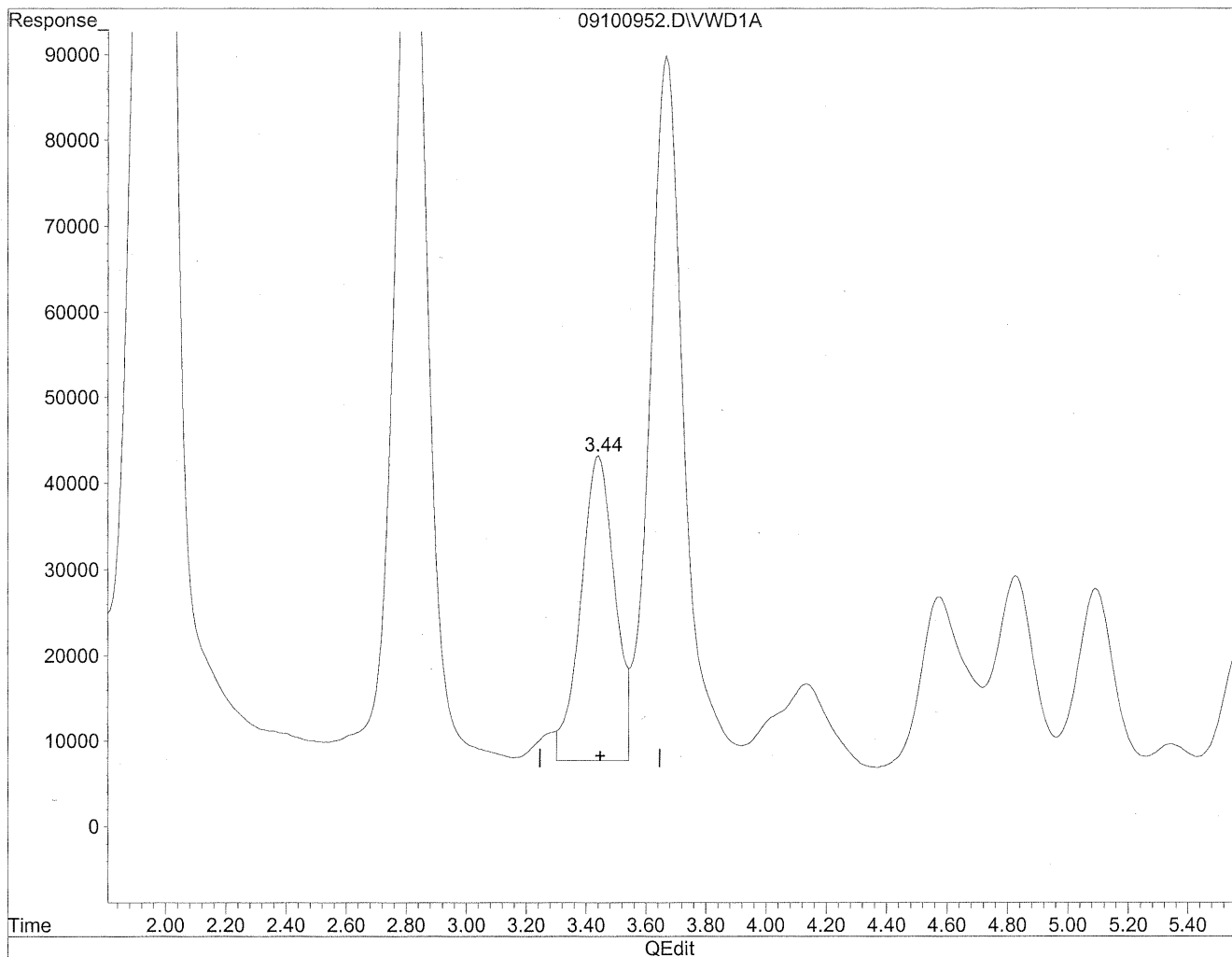


(3) Propionaldehyde
3.44min 564.957ng/ml
response 2936545

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



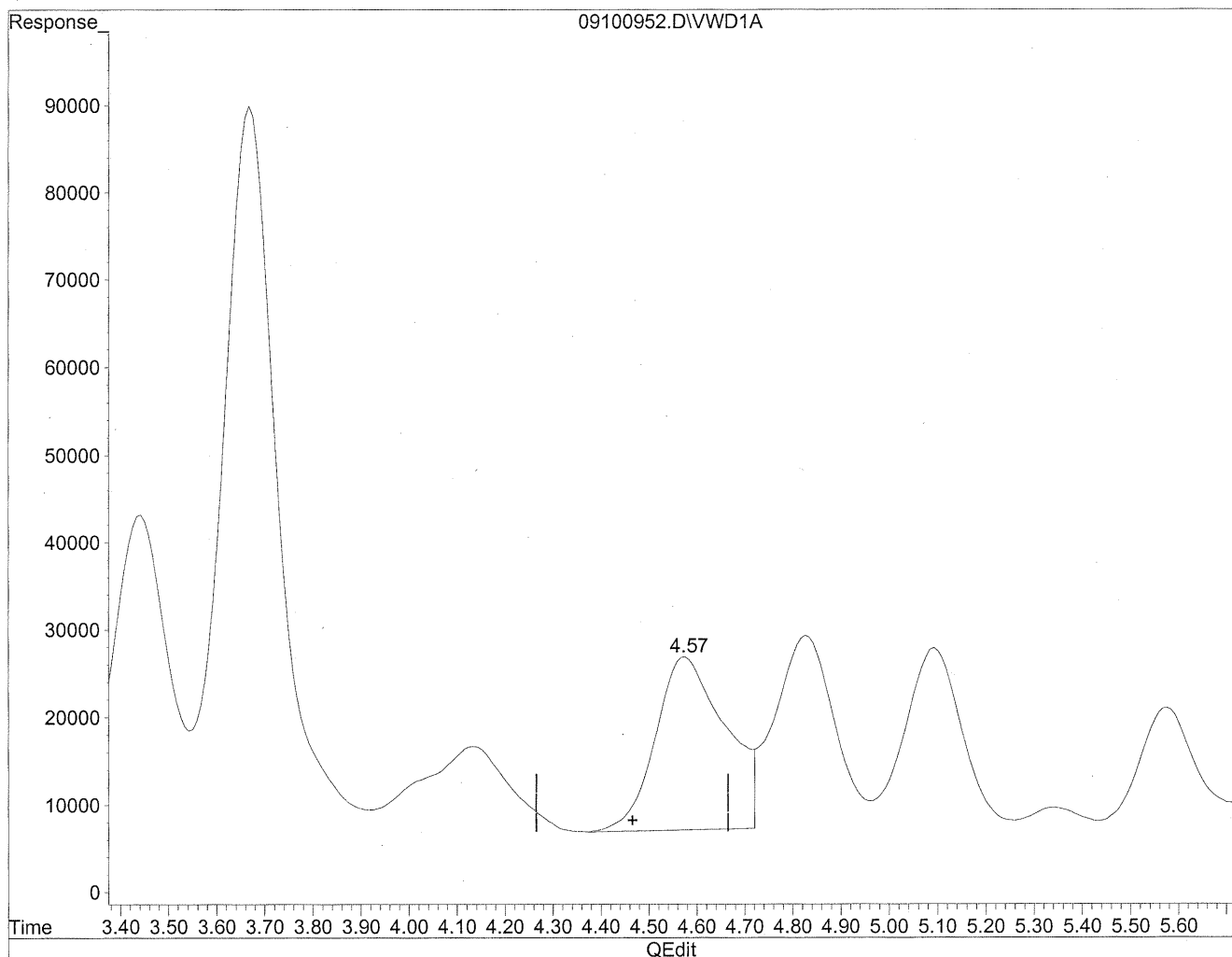
(3) Propionaldehyde
3.44min 549.757ng/ml m
response 2857542

Handwritten notes:
③
9/16/09
sh
PK
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



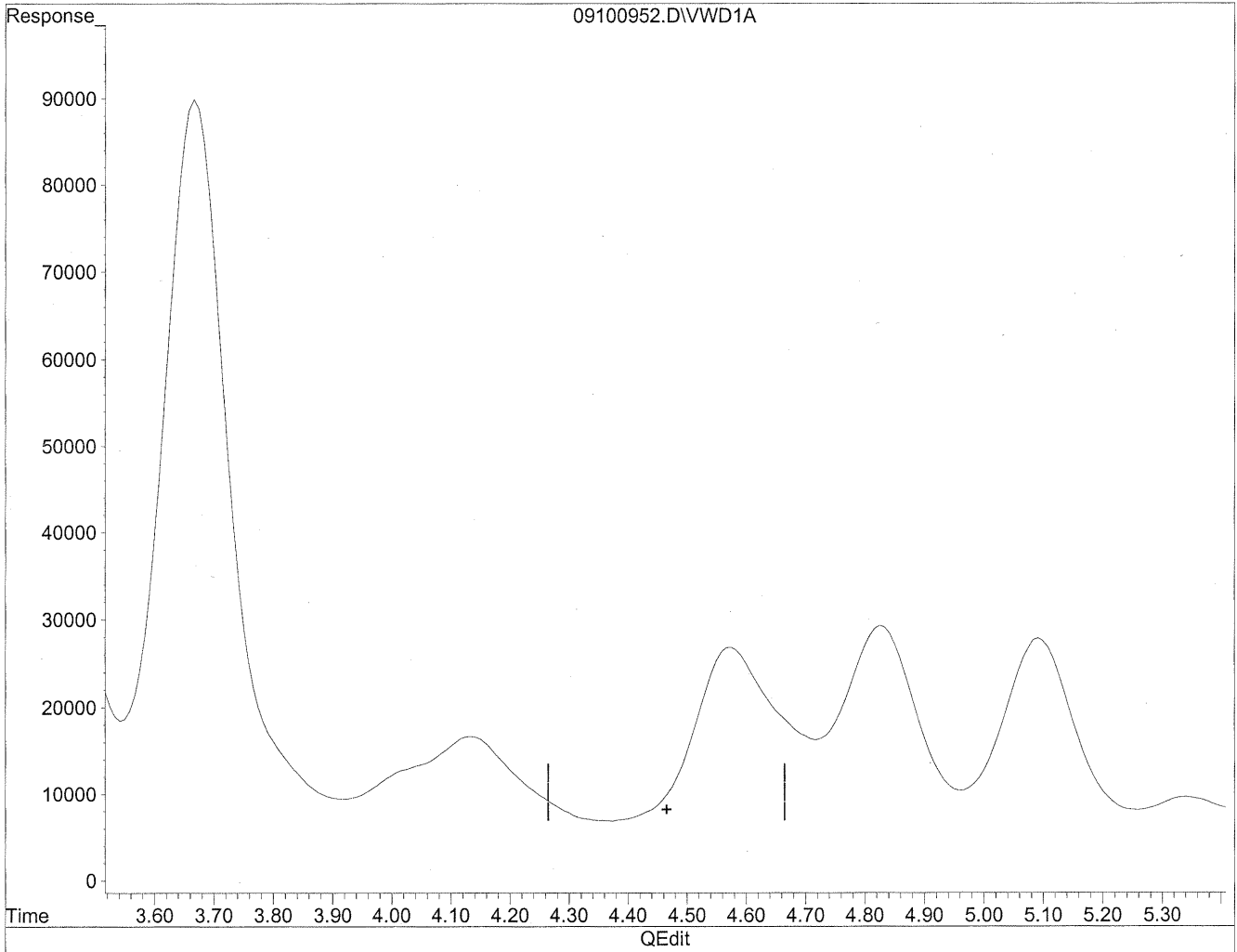
(4) Crotonaldehyde
4.58min 489.588ng/ml
response 1987518

(+) = Expected Retention Time

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



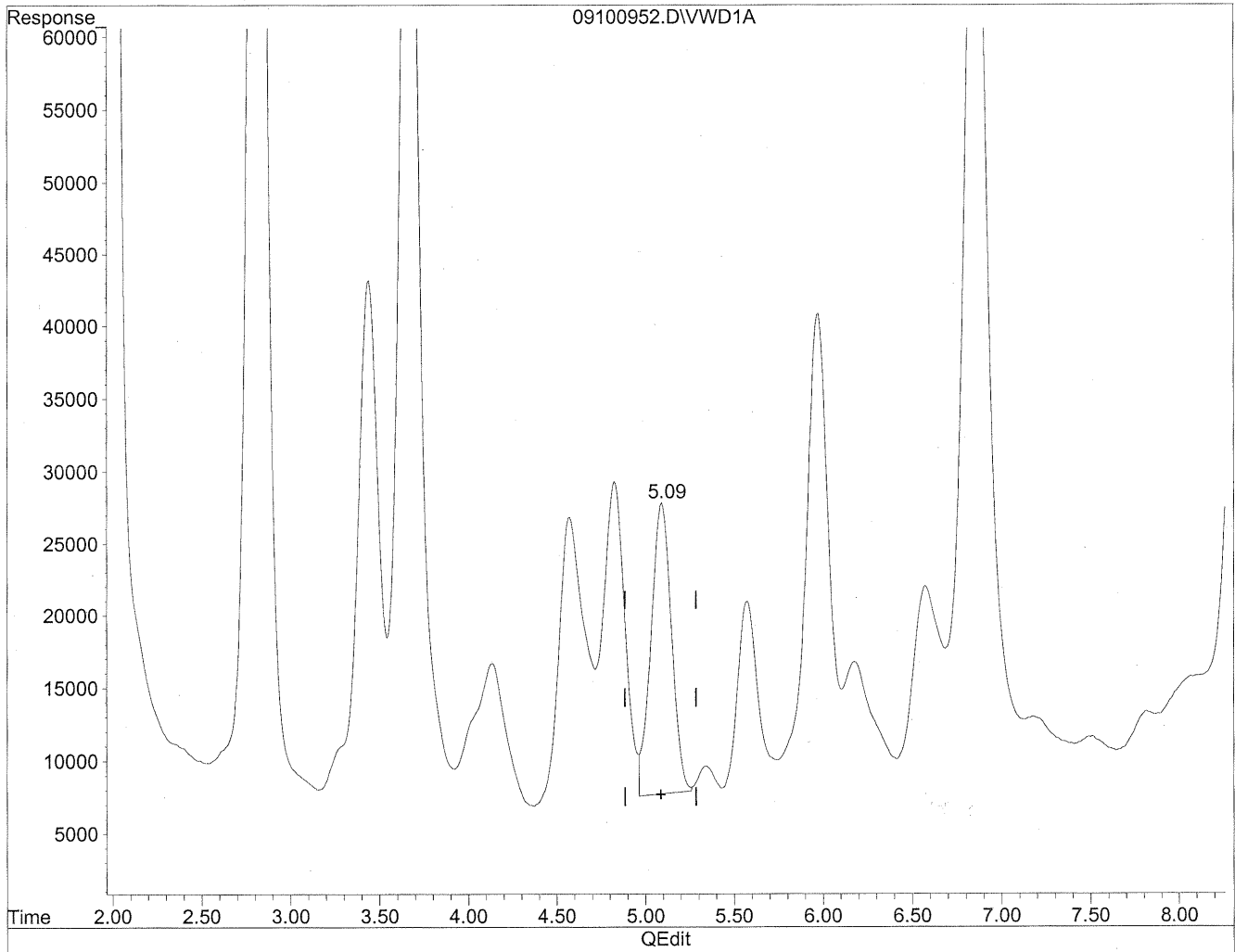
(4) Crotonaldehyde
0.00min 0.000ng/ml d
response 0

(Handwritten notes)
FM
9/16/09
MP
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

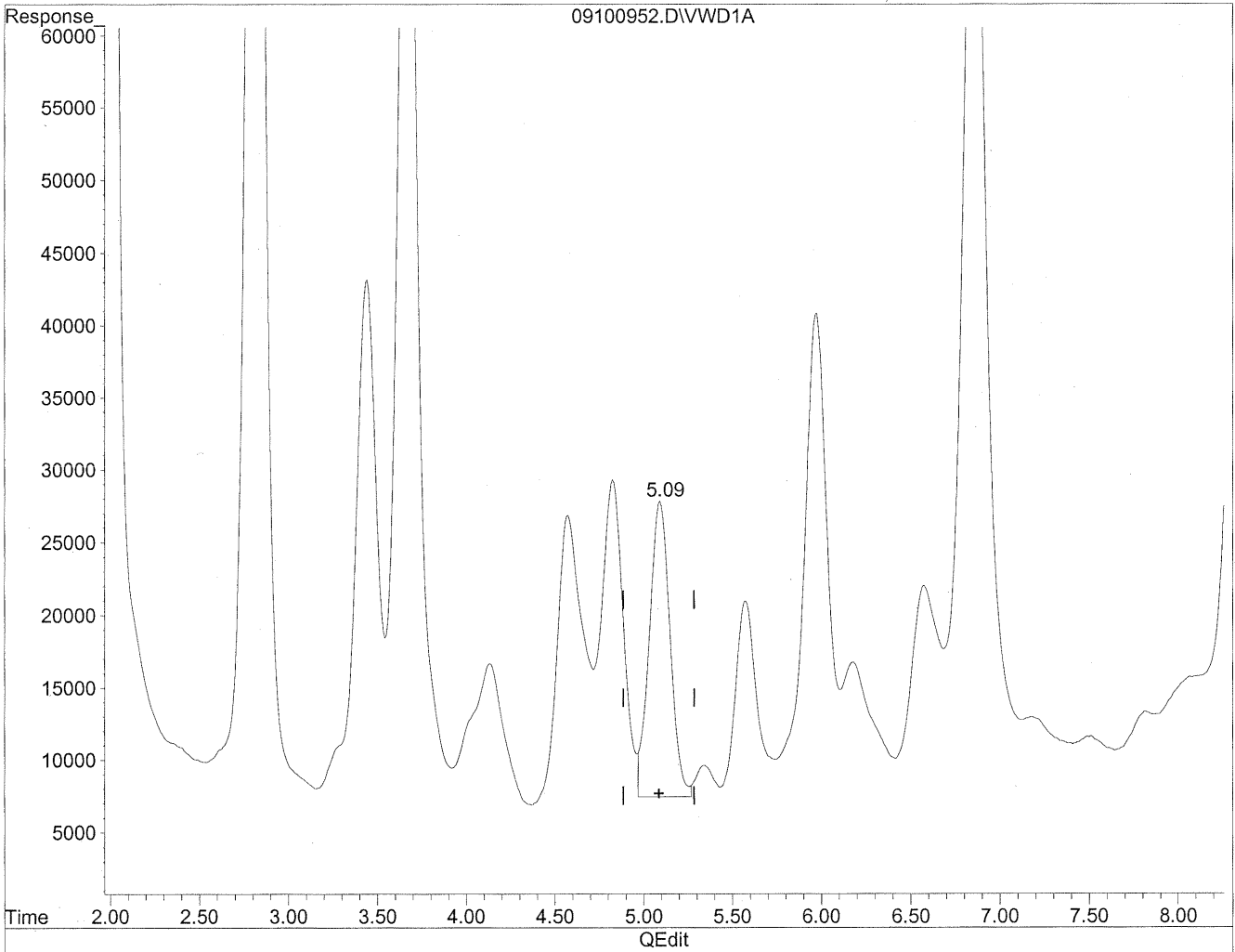


(5) Butyraldehyde
5.09min 398.761ng/ml
response 1616086

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



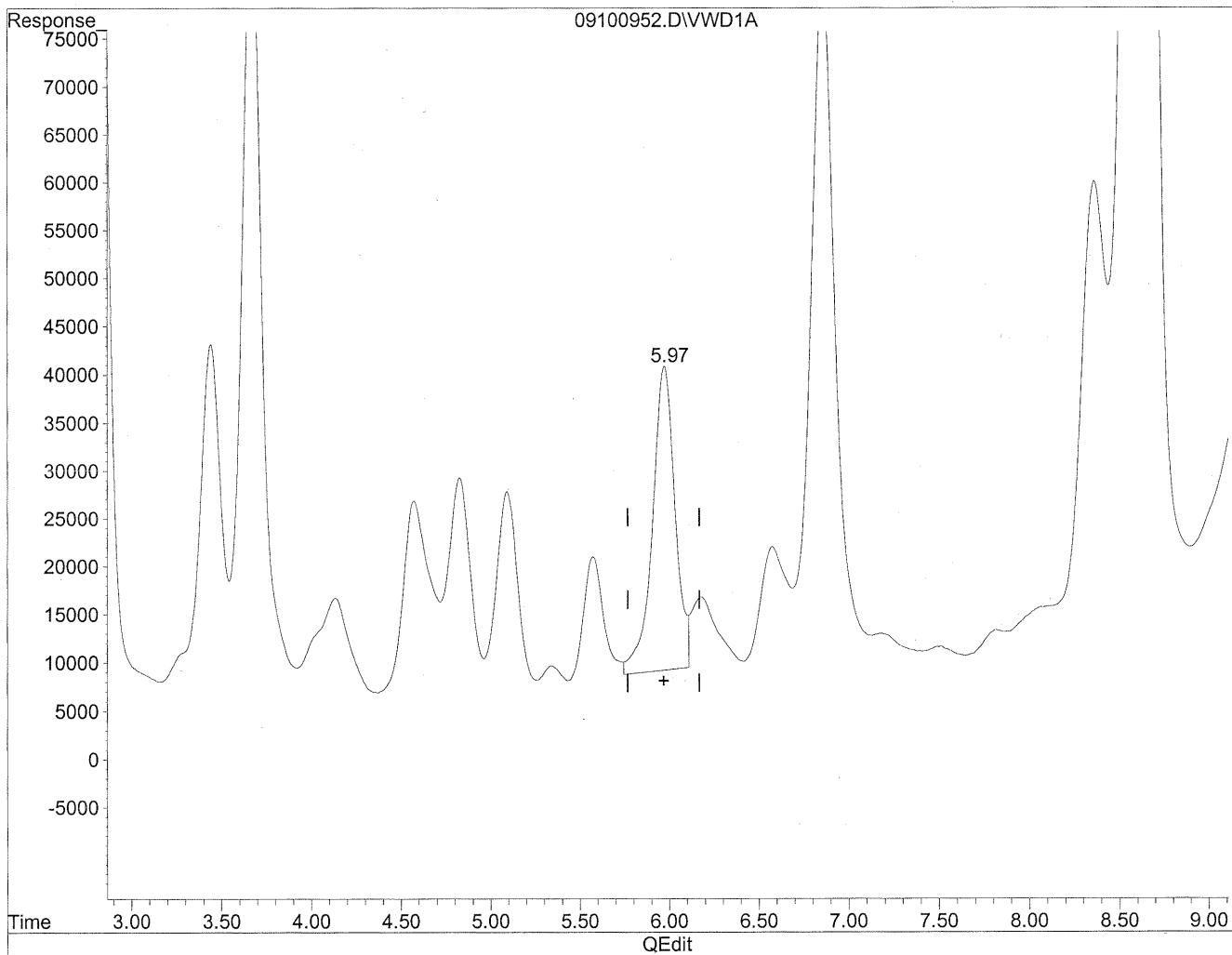
(5) Butyraldehyde
5.09min 410.411ng/ml m
response 1663300

(Handwritten notes)
9/16/09 HC
PC 9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(6) Benzaldehyde

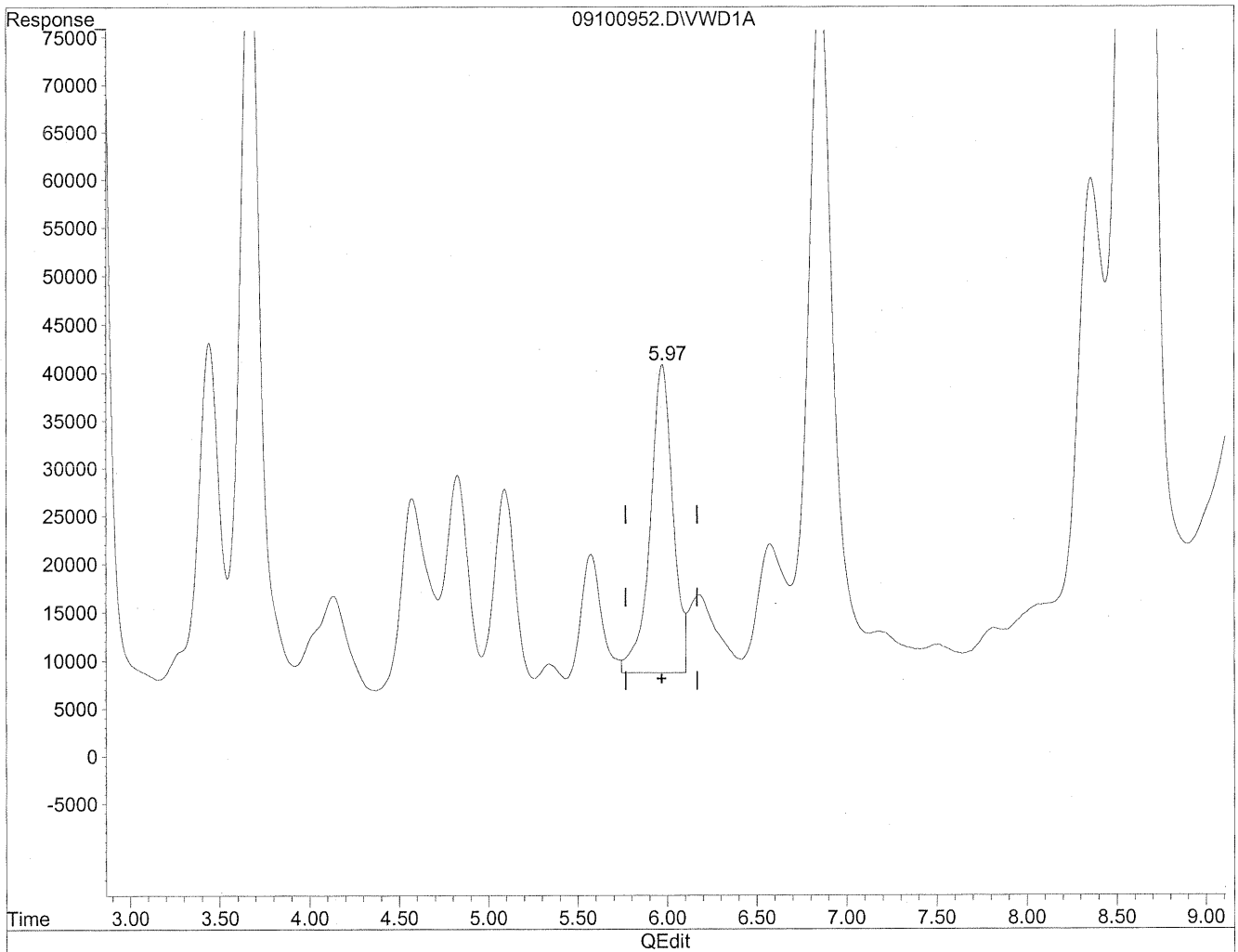
5.97min 1016.690ng/ml

response 2773913

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



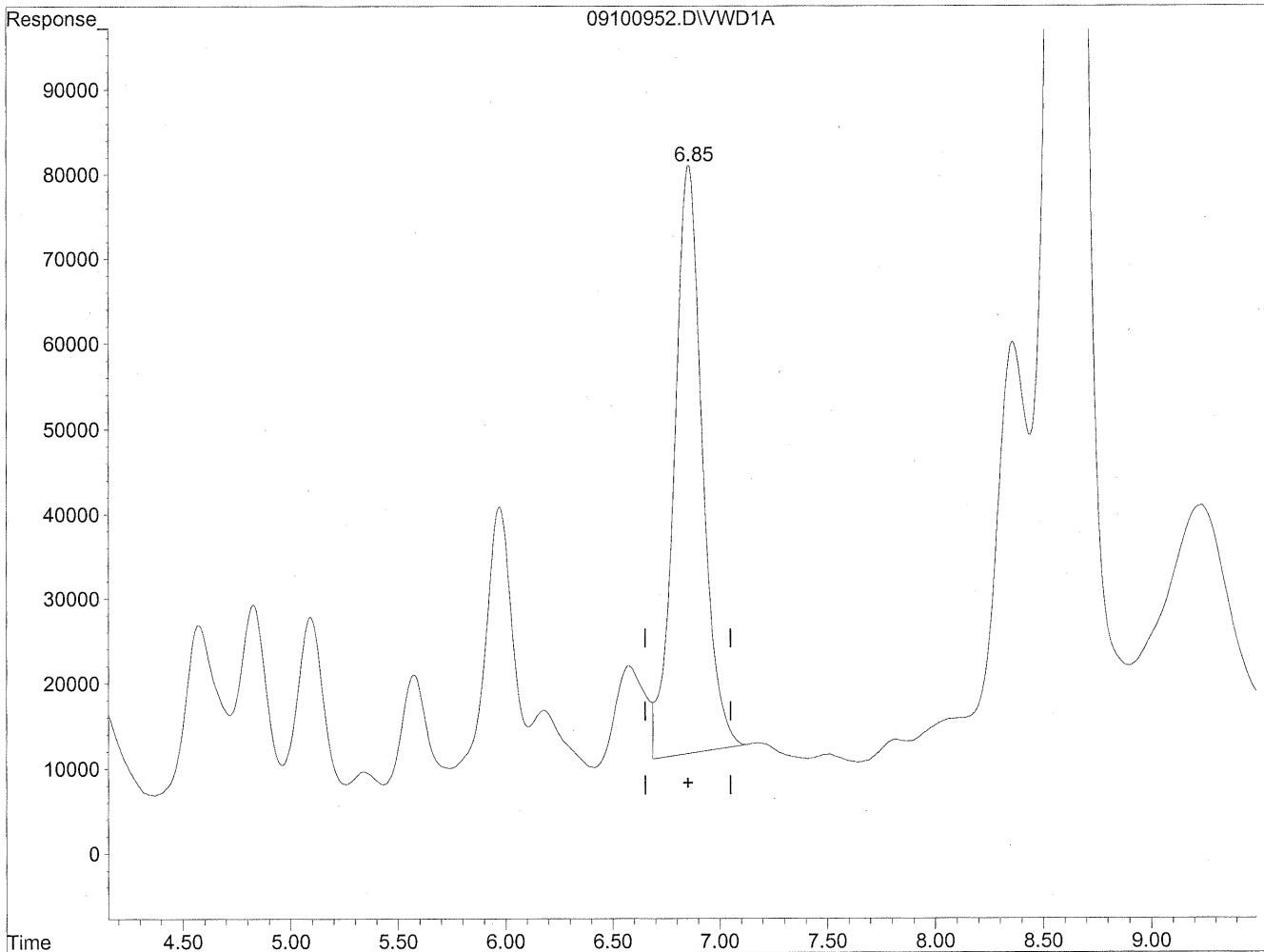
(6) Benzaldehyde
5.97min 1045.169ng/ml m
response 2851616

MD
9/16/09
12
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

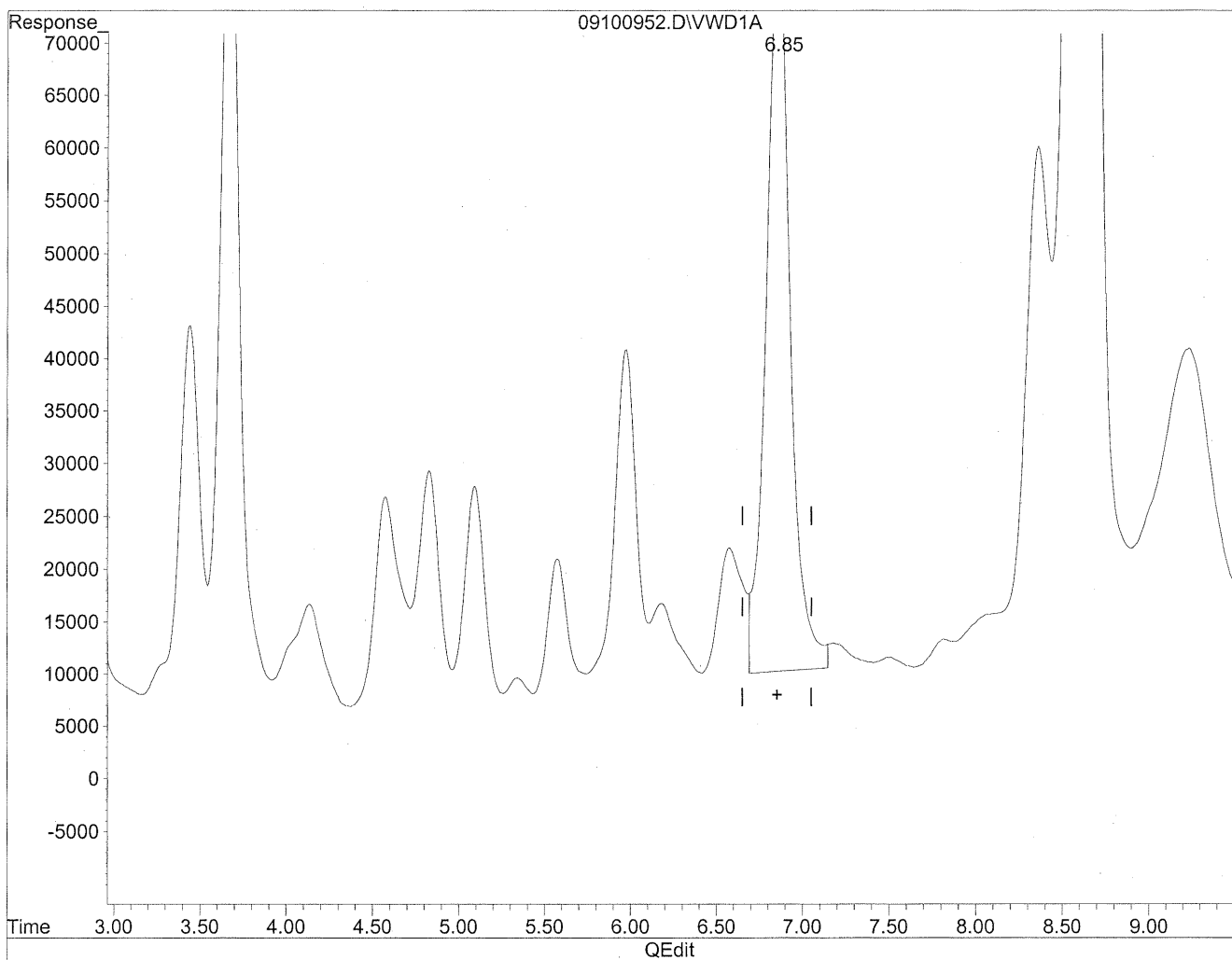


(8) Valeraldehyde
6.86min 1856.042ng/ml
response 6309874

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100952.D Vial: 128
Acq On : 11-Sep-2009, 11:54 Operator: MD
Sample : P0903086-003 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(8) Valeraldehyde
6.85min 1981.479ng/ml m
response 6736315

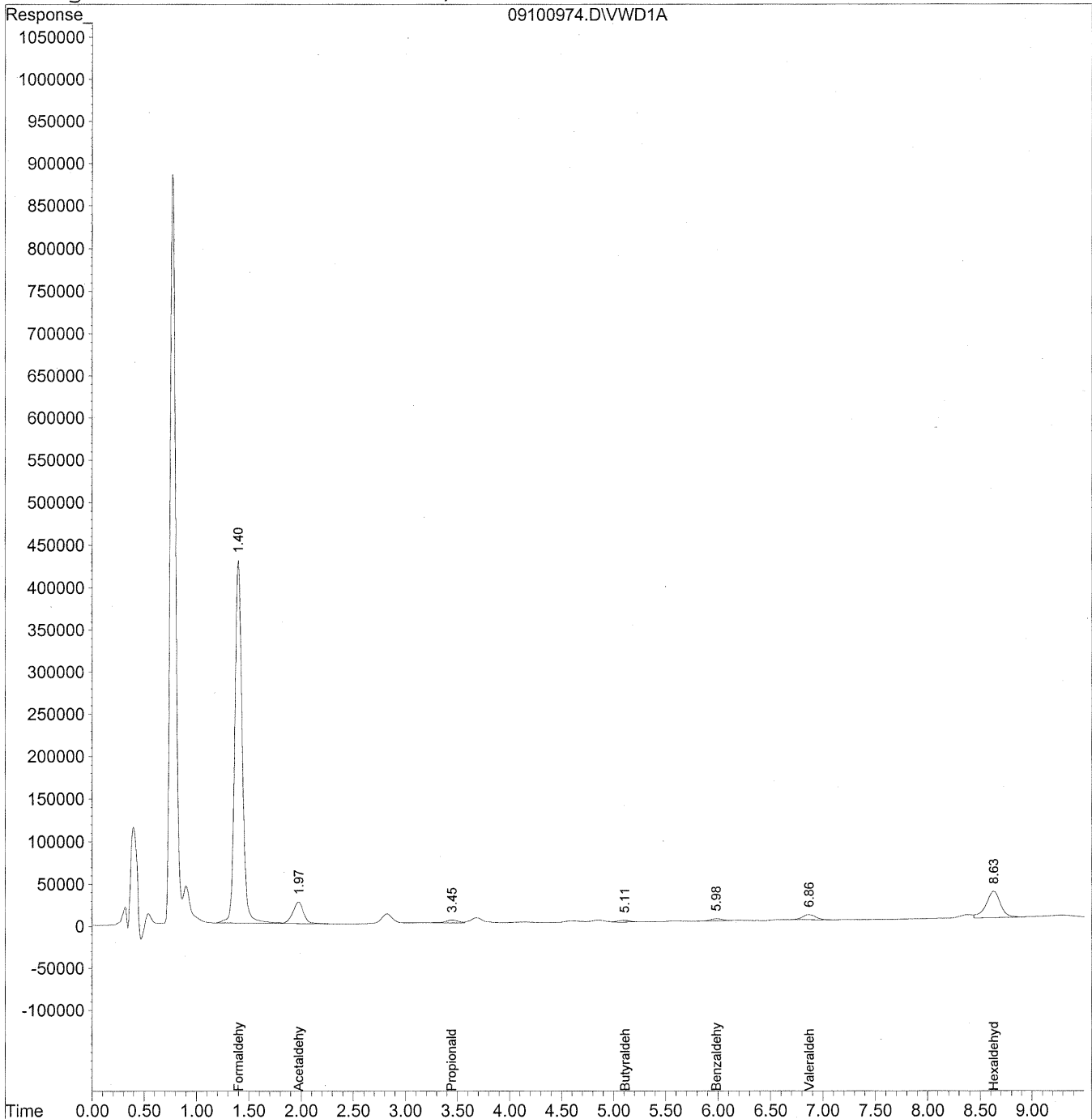
(Handwritten notes: a circled 'm', '9/16/09 ic', and 'HC 9/17/09')

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100974.D Vial: 8
Acq On : 11-Sep-2009, 16:16 Operator: MD
Sample : P0903086-003 front 10x dil Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 14:00 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100974.D Vial: 8
 Acq On : 11-Sep-2009, 16:16 Operator: MD
 Sample : P0903086-003 front 10x dil Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 14:00 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

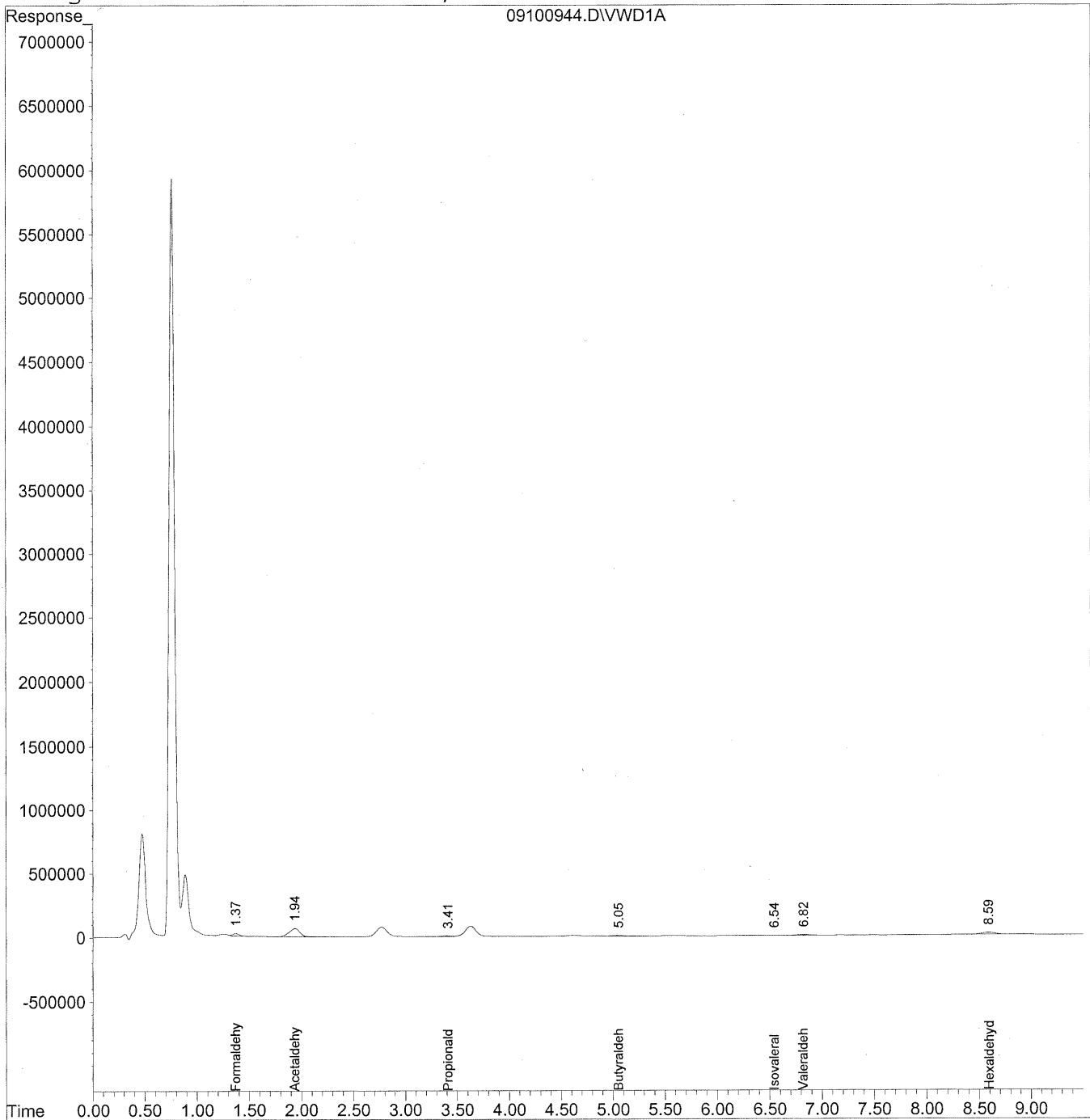
Target Compounds			
1) Formaldehyde	1.40	21234597	2376.449 ng/ml
2) Acetaldehyde	1.98	1887076	290.284 ng/ml
3) Propionaldehyde	3.45	293410	56.449 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	5.11	167705	41.380 ng/ml
6) Benzaldehyde	5.98	196770	72.120 ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	6.87	517028	152.083 ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.63	3102360	1047.838 ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:38 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
 Acq On : 11-Sep-2009, 10:19 Operator: MD
 Sample : P0903086-003 back 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:38 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

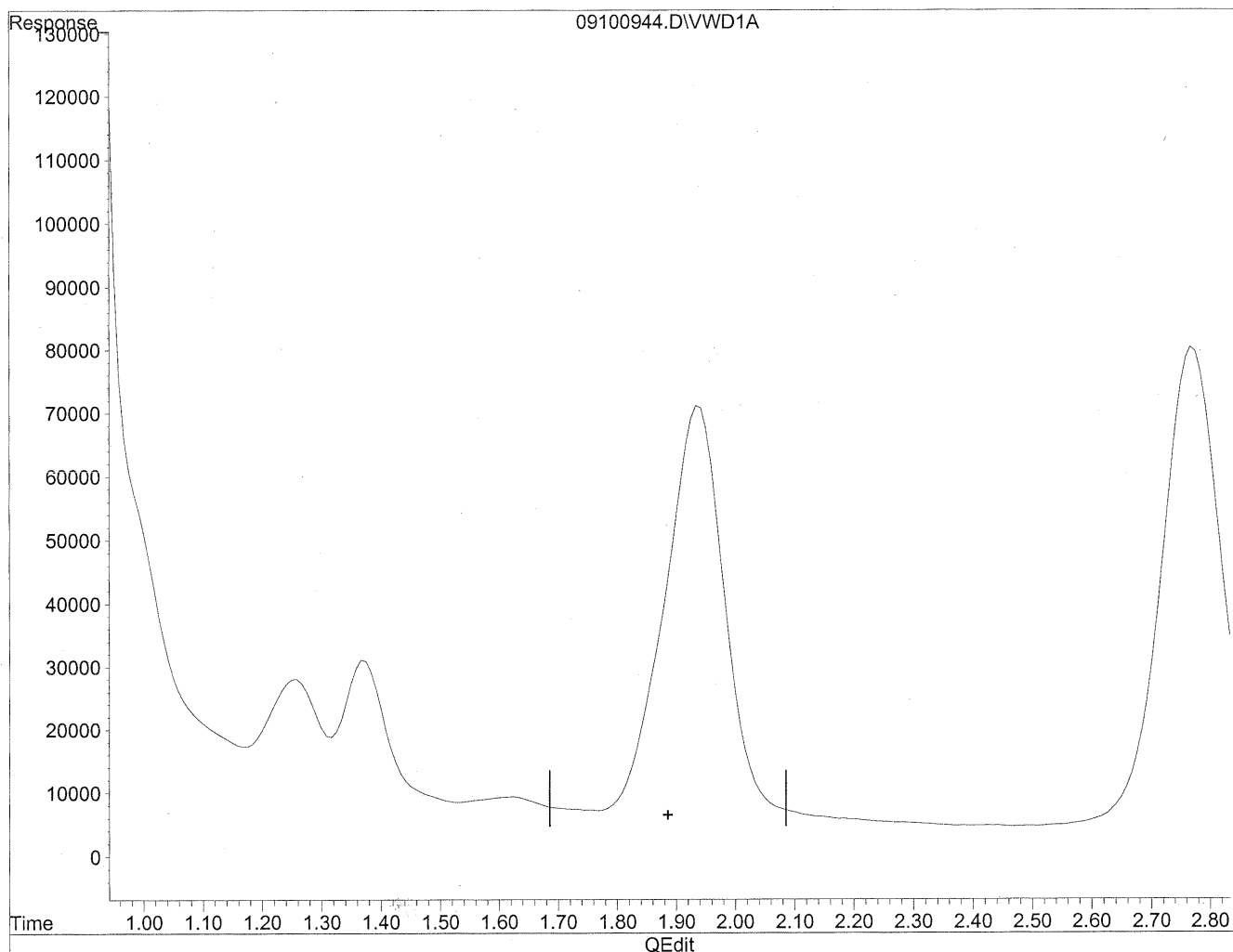
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.37	820737	91.852 ng/ml
2) Acetaldehyde	1.94	4549098	699.775 ng/mlm
3) Propionaldehyde	3.41	419257	80.660 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	5.06	315994	77.970 ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	6.55	113216	32.895 ng/ml
8) Valeraldehyde	6.82	564159	165.947 ng/mlm
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.59	1473146	497.563 ng/mlm
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:31 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration

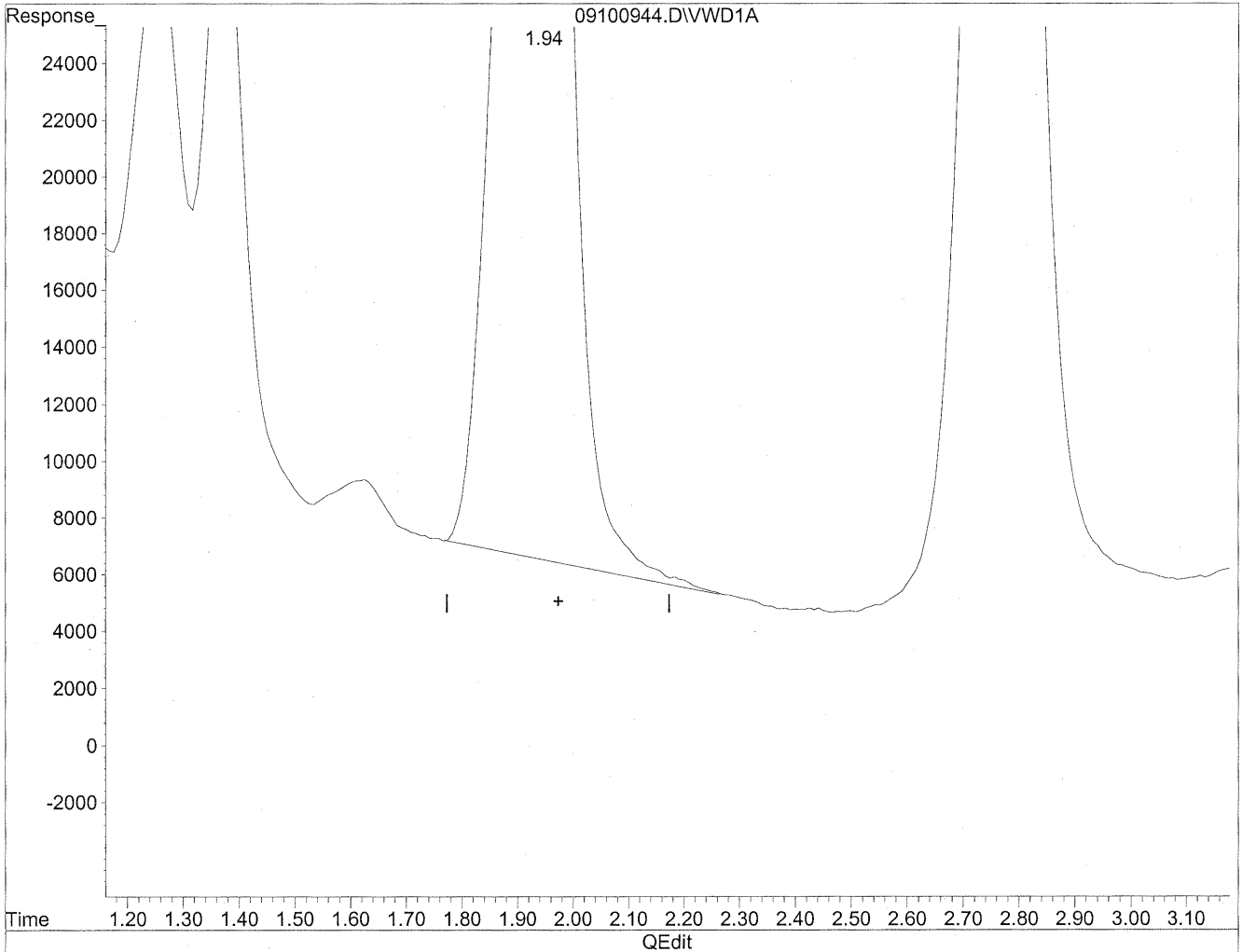


(2) Acetaldehyde
1.89min 0.000ng/ml
response 0

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:36 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



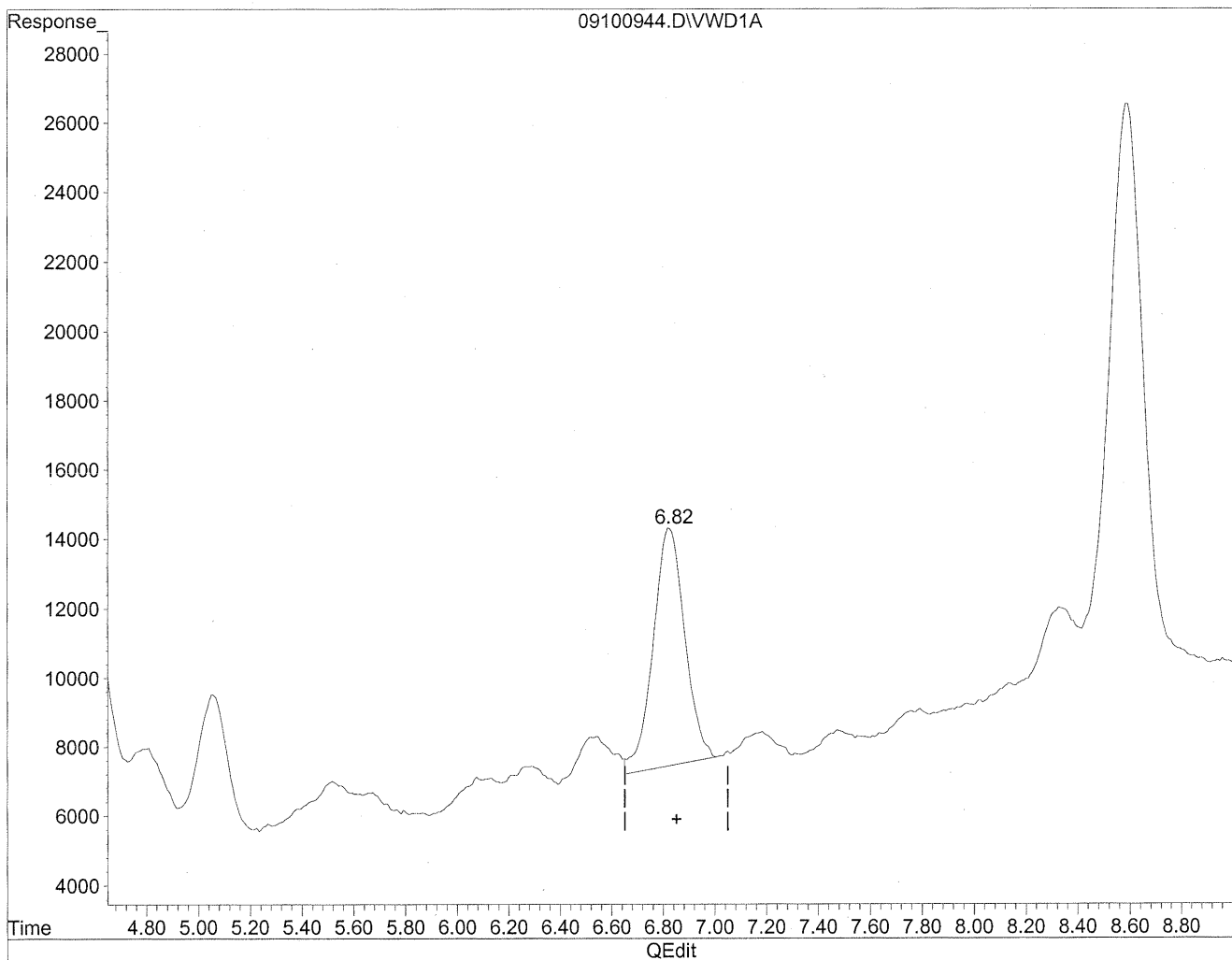
(2) Acetaldehyde
1.94min 699.775ng/ml m
response 4549098

(Handwritten notes)
9/16/09
Bmi
AC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:36 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

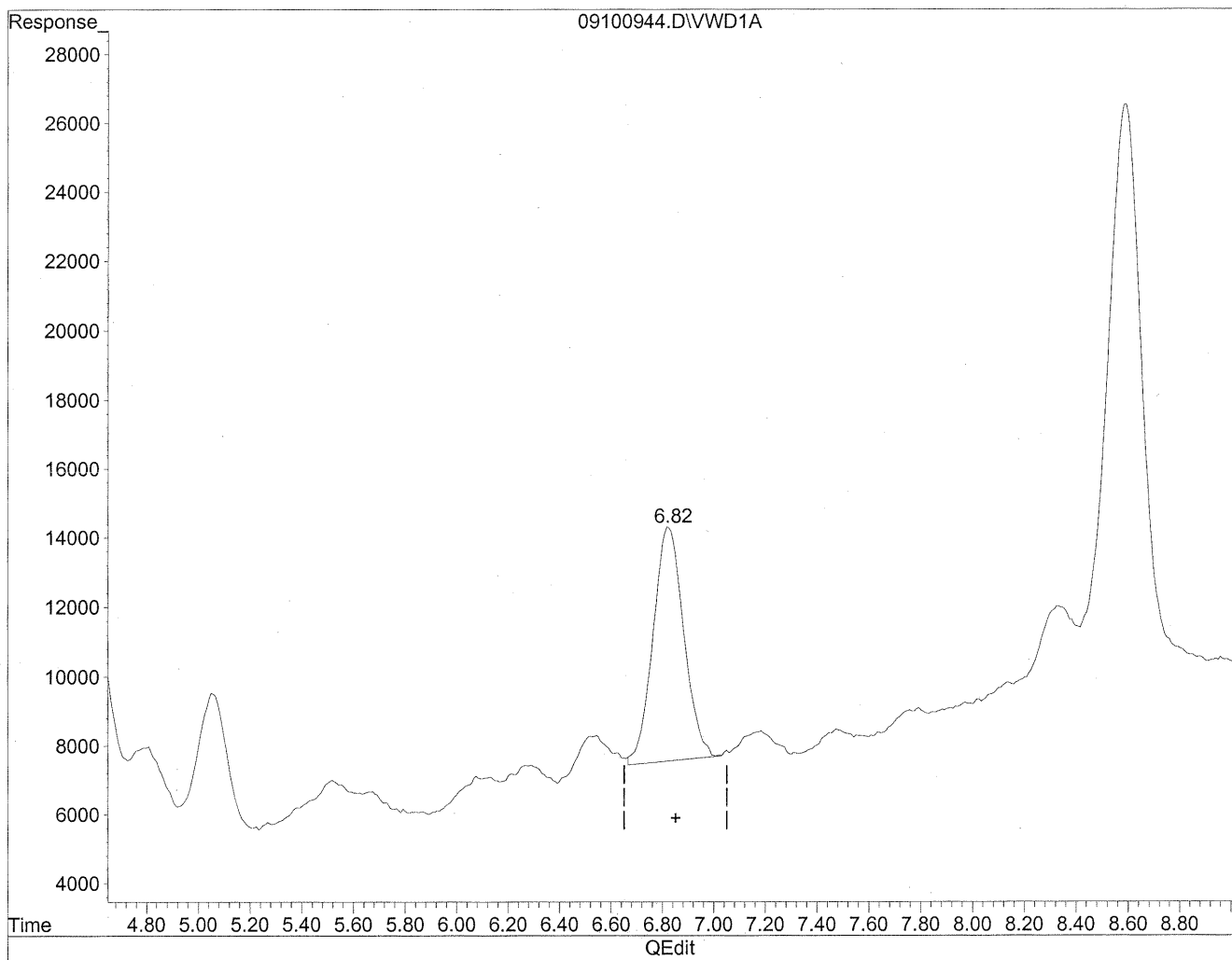


(8) Valeraldehyde
6.82min 173.234ng/ml
response 588933

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:36 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



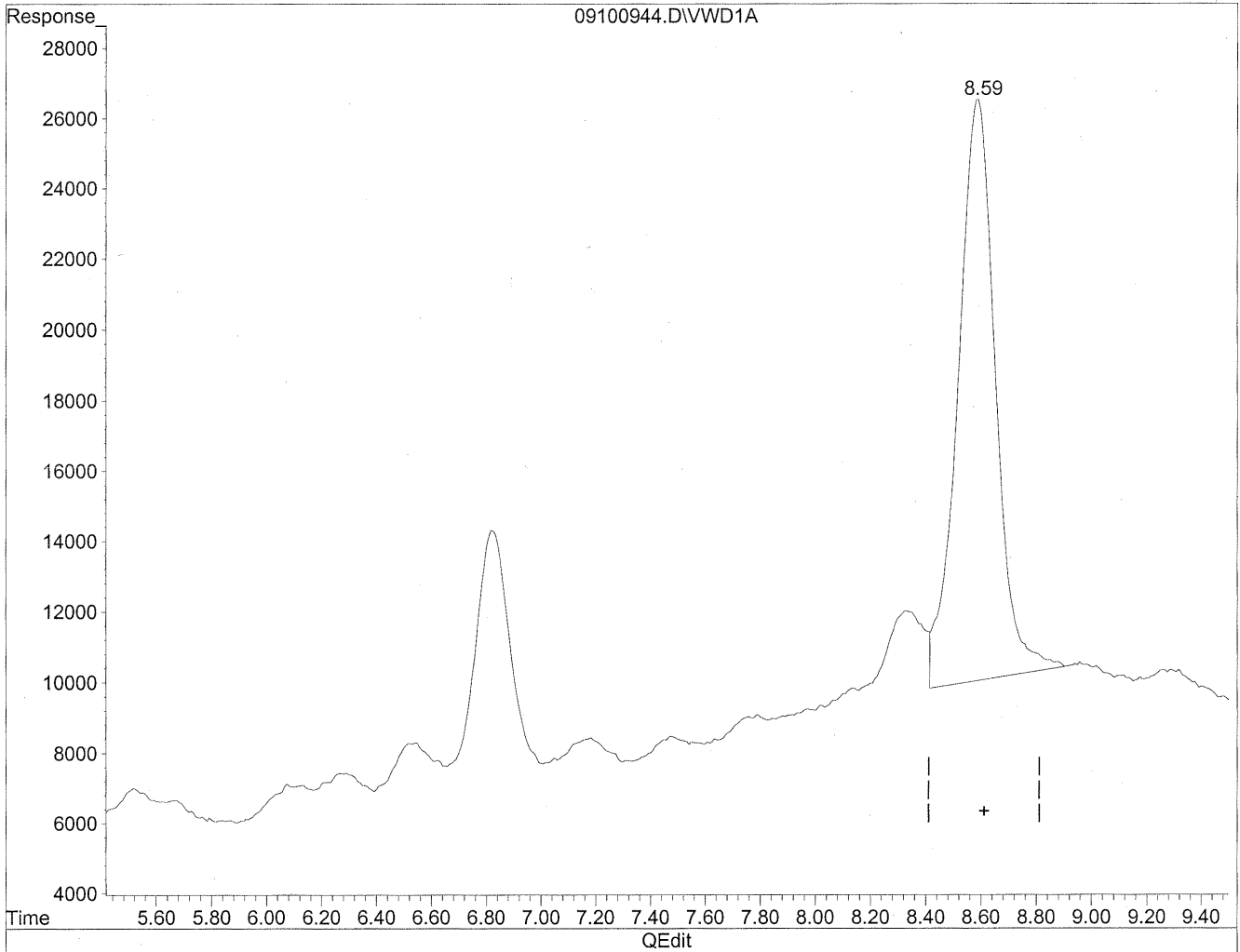
(8) Valeraldehyde
6.82min 165.947ng/ml m
response 564159

Handwritten notes:
① 9/16/09
pac
HC 9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:36 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

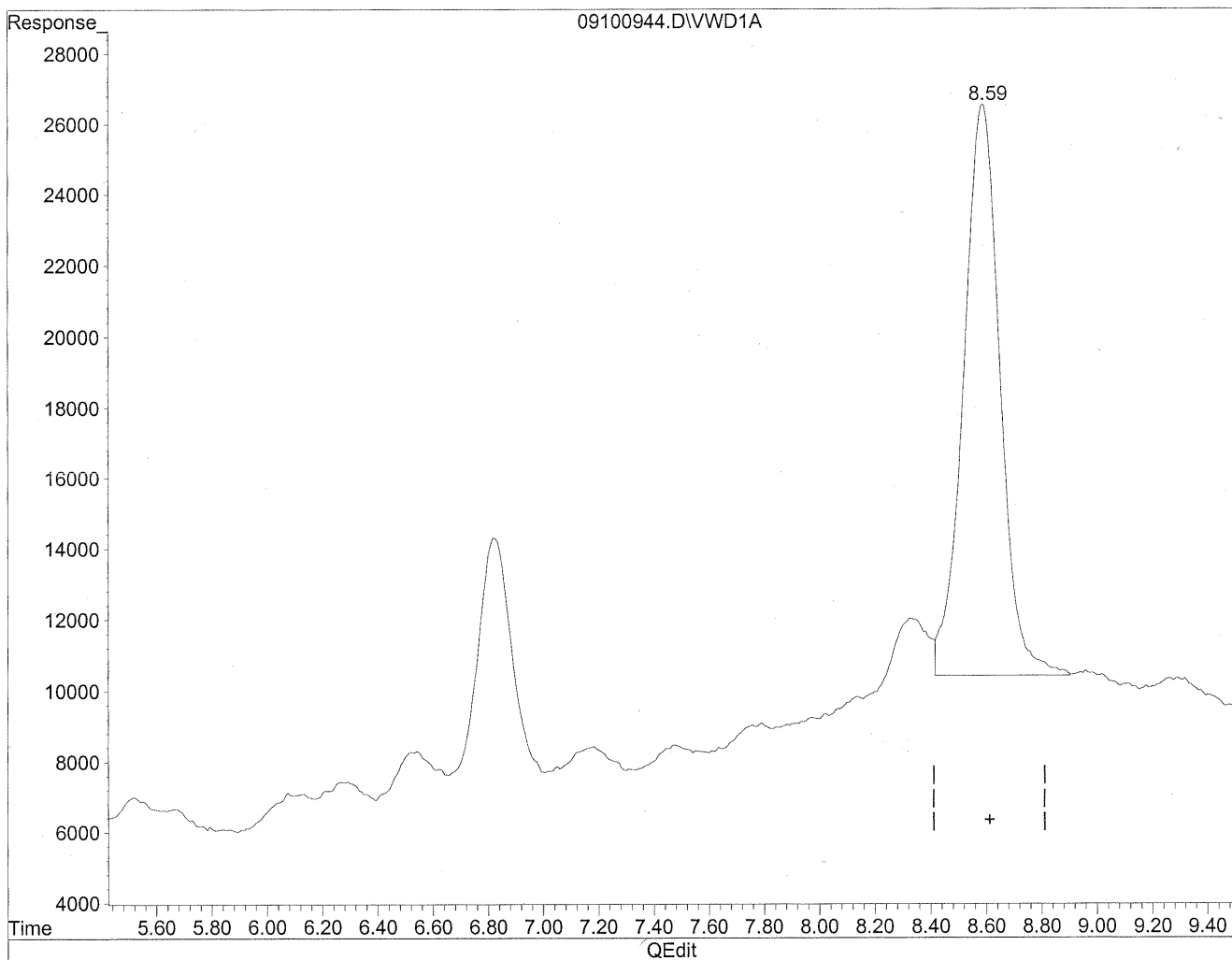


(11) Hexaldehyde
8.59min 526.682ng/ml
response 1559359

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100944.D Vial: 123
Acq On : 11-Sep-2009, 10:19 Operator: MD
Sample : P0903086-003 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:36 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(11) Hexaldehyde
8.59min 497.563ng/ml m
response 1473146

Handwritten notes:
①
9/16/09
BC
HC
9/17/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 104280

Client Project ID: 16512

CAS Project ID: P0903086

CAS Sample ID: P0903086-004

Test Code: EPA Method TO-11A

Instrument ID: HP1050/LC2

Analyst: Madeleine Dangazyan

Sampling Media: Silica Gel DNPH Tube

Test Notes: BC

Date Collected: 8/26/09

Date Received: 9/2/09

Date Analyzed: 9/11/09

Desorption Volume: 1.0 ml

Volume Sampled: 102 Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	24,000	240	0.98	200	0.80	
75-07-0	Acetaldehyde	3,800	37	0.98	21	0.54	BT
123-38-6	Propionaldehyde	570	5.6	0.98	2.3	0.41	
4170-30-3	Crotonaldehyde, Total	< 100	ND	0.98	ND	0.34	
123-72-8	Butyraldehyde	450	4.4	0.98	1.5	0.33	
100-52-7	Benzaldehyde	1,100	11	0.98	2.4	0.23	
590-86-3	Isovaleraldehyde	370	3.7	0.98	1.0	0.28	
110-62-3	Valeraldehyde	2,100	21	0.98	5.9	0.28	
529-20-4	o-Tolualdehyde	< 100	ND	0.98	ND	0.20	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	2.0	ND	0.40	
66-25-1	n-Hexaldehyde	11,000	110	0.98	27	0.24	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	0.98	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

BT = Results indicated possible breakthrough; back section > 10% front section.

Verified By: _____

Date: _____

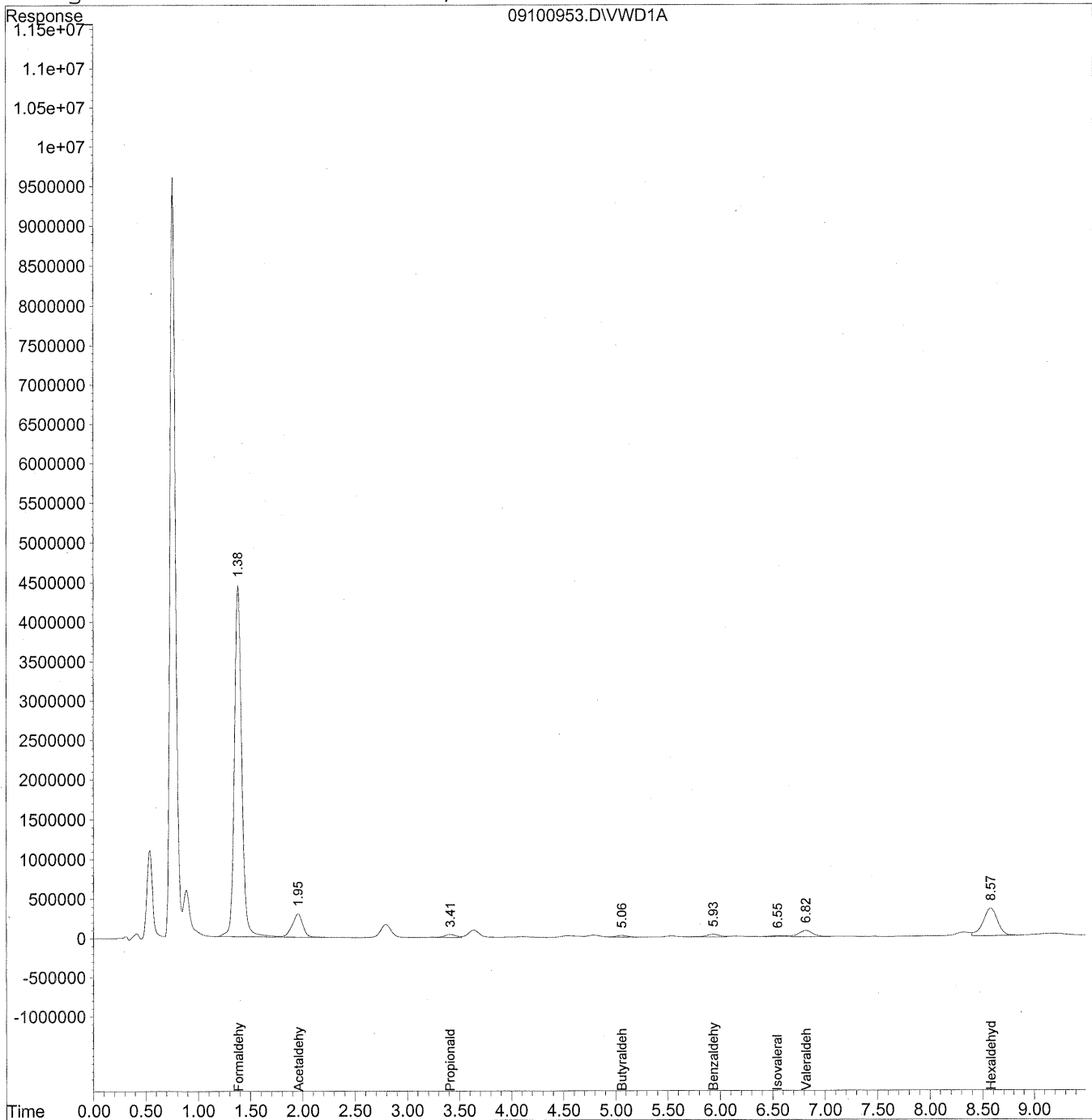
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:53 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
 Acq On : 11-Sep-2009, 12:06 Operator: MD
 Sample : P0903086-004 front 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:53 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

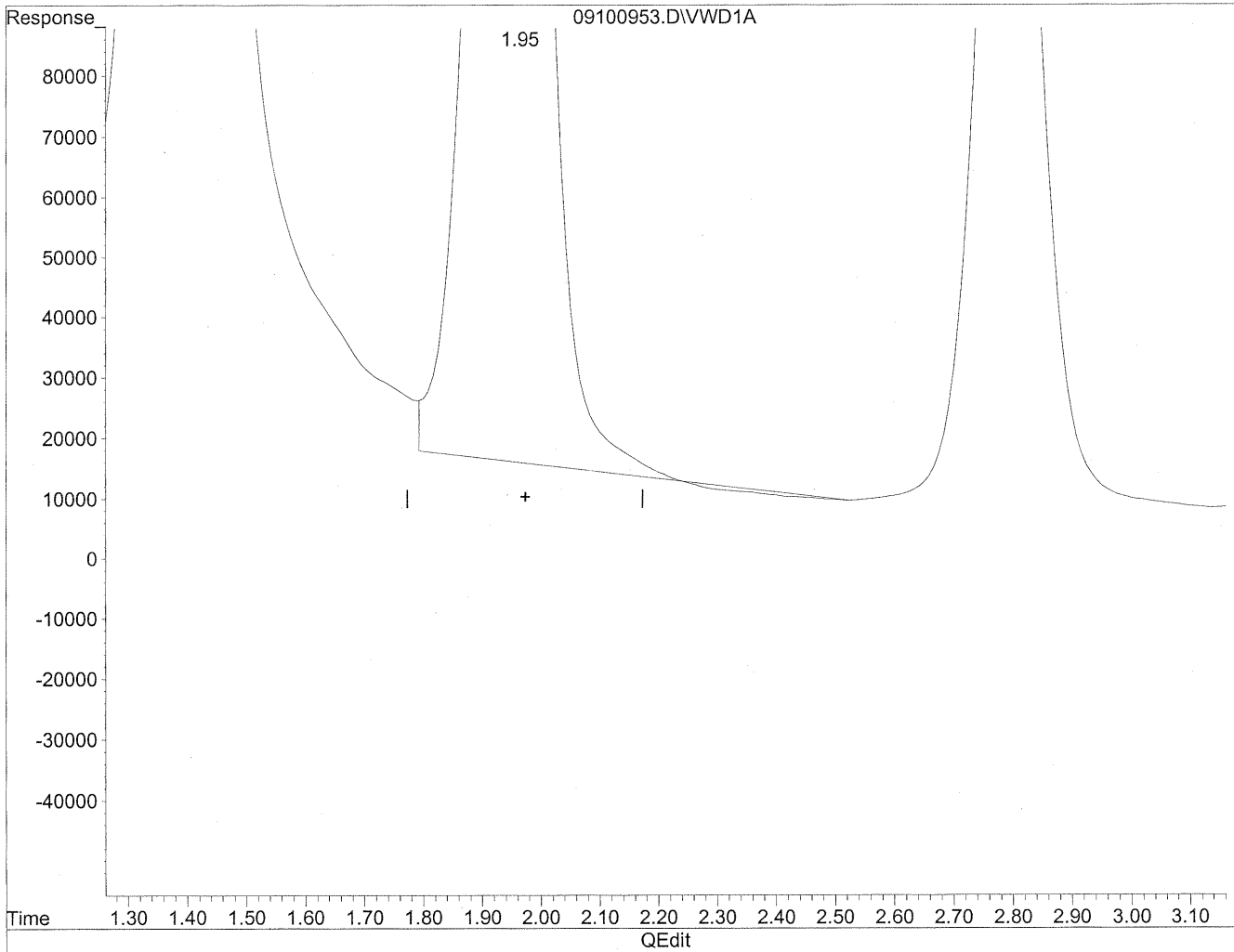
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.39	217053454	24291.325 ng/ml <i>D/L</i>
2) Acetaldehyde	1.95	21168463	3256.287 ng/mlm
3) Propionaldehyde	3.41	2953018	568.126 ng/mlm
4) Crotonaldehyde	0.00	0	N.D. ng/mld
5) Butyraldehyde	5.06	1829152	451.334 ng/ml
6) Benzaldehyde	5.93	2938790	1077.120 ng/mlm
7) Isovaleraldehyde	6.55	1289947	374.790 ng/ml
8) Valeraldehyde	6.82	7149750	2103.091 ng/mlm
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.58	33160277	14200.055 ng/ml <i>OIL</i>
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

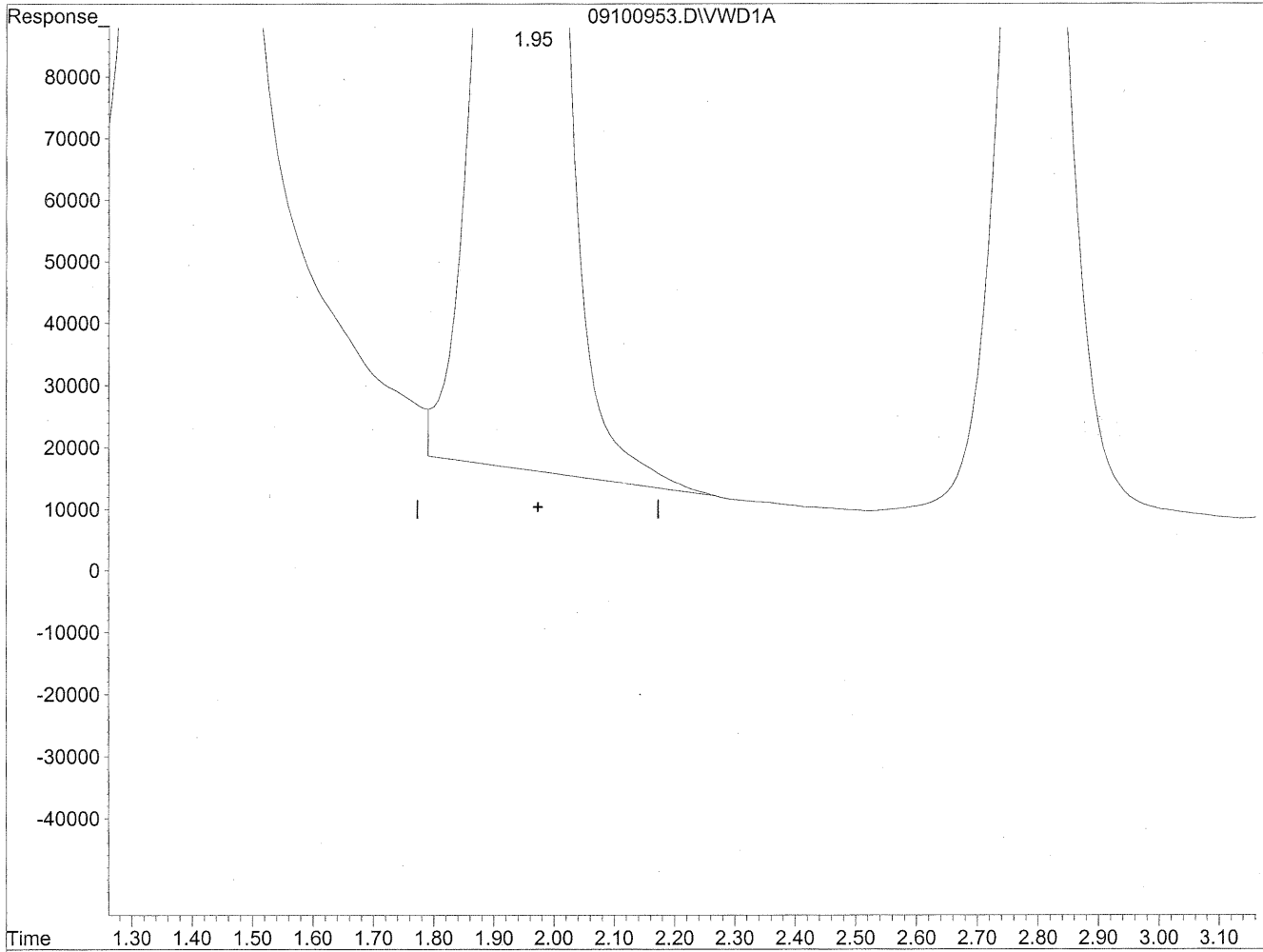


(2) Acetaldehyde
1.96min 3252.070ng/ml
response 21141049

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



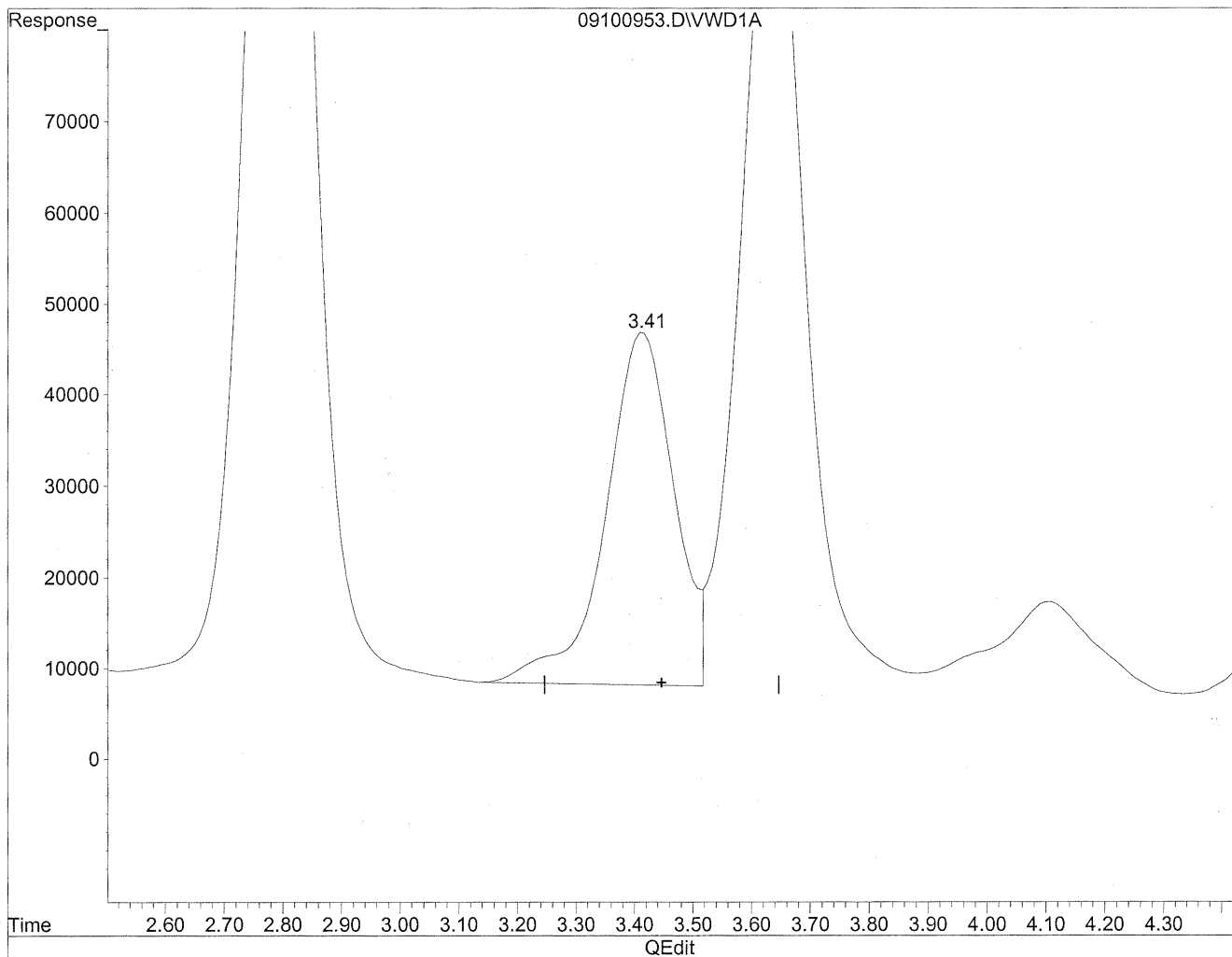
(2) Acetaldehyde
1.95min 3256.287ng/ml m
response 21168463

(M)
aldehyde
BZ
4K
11/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

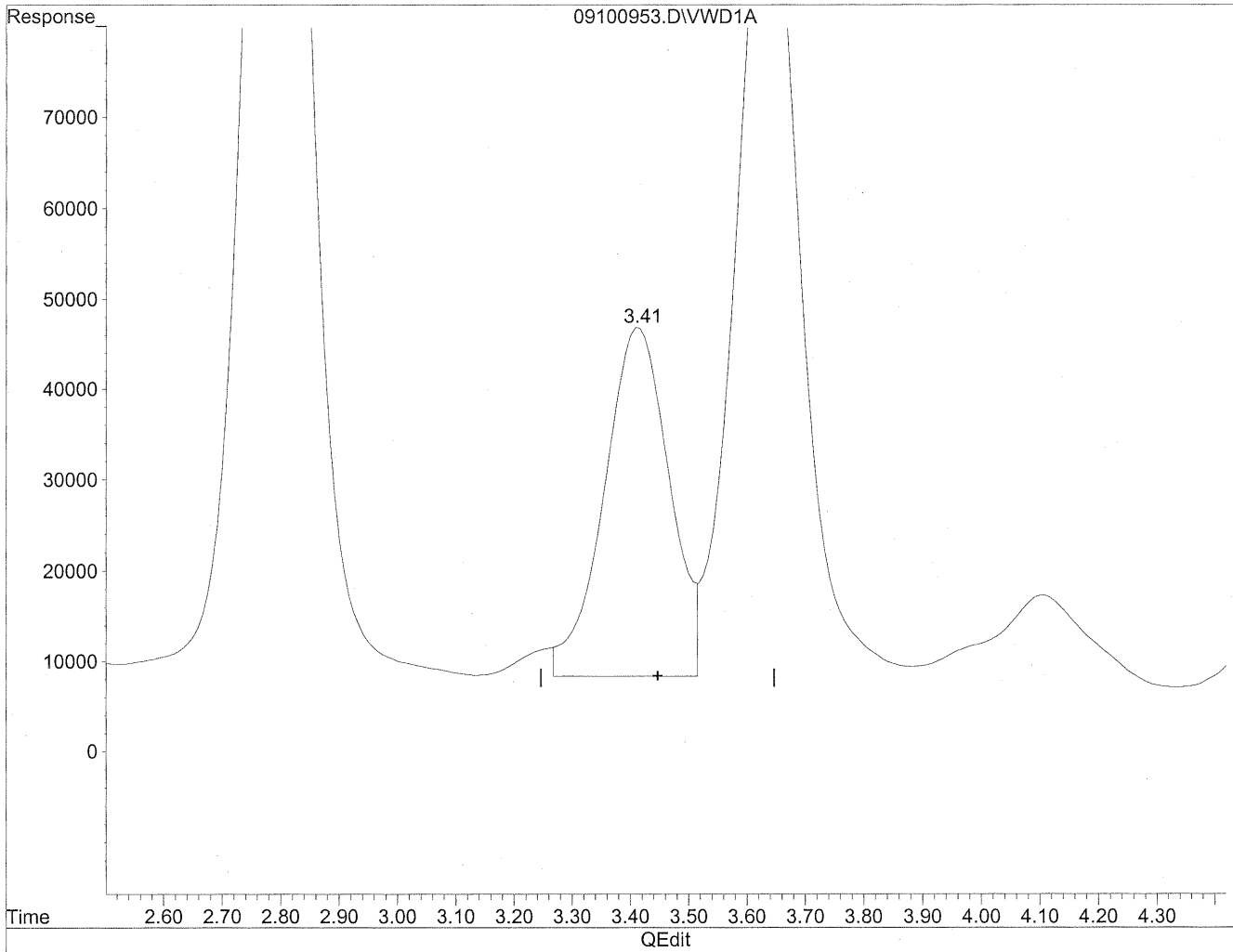


(3) Propionaldehyde
3.41min 601.390ng/ml
response 3125918

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



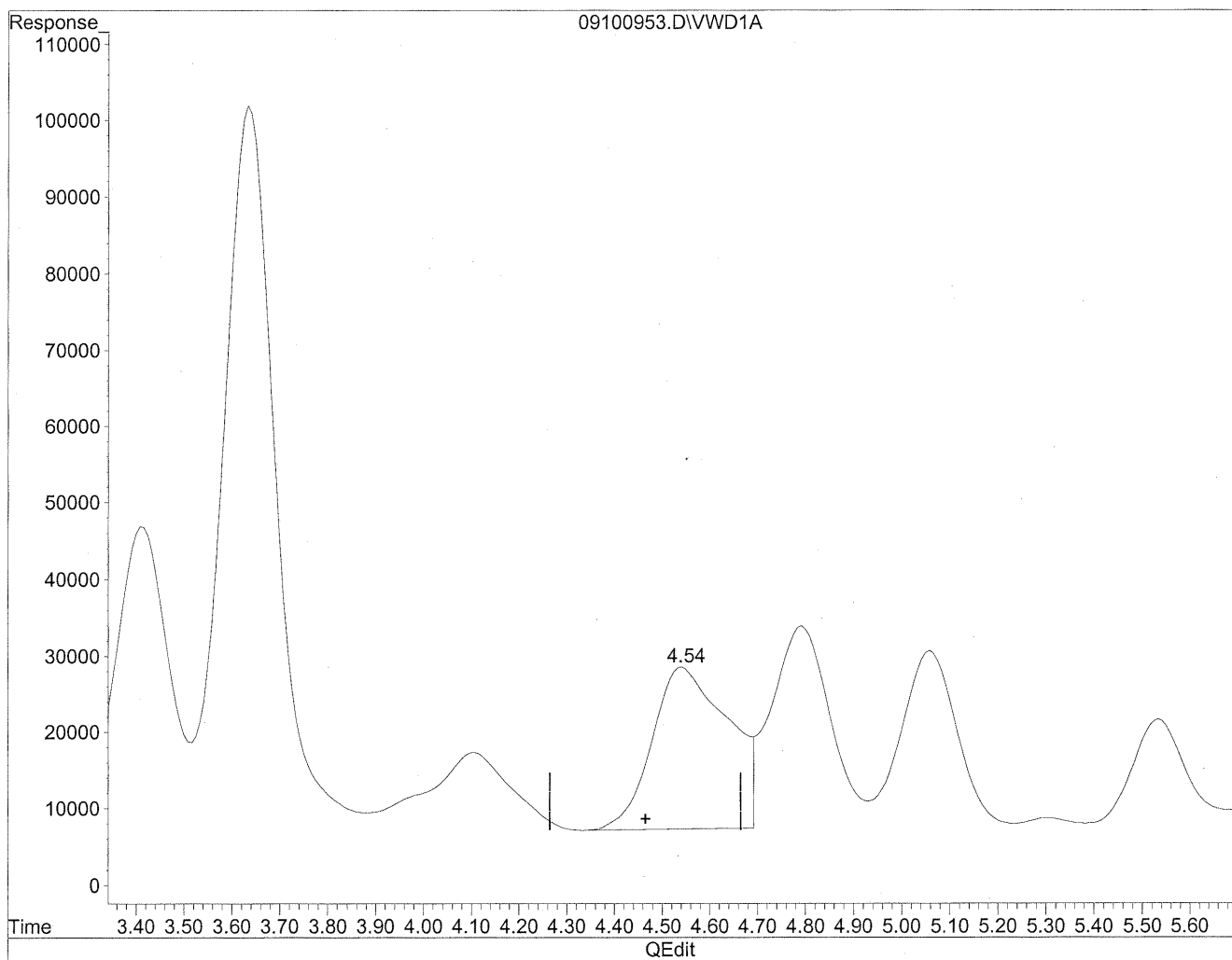
(3) Propionaldehyde
3.41min 568.126ng/ml m
response 2953018

(m)
9/16/09 HC
SH 9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

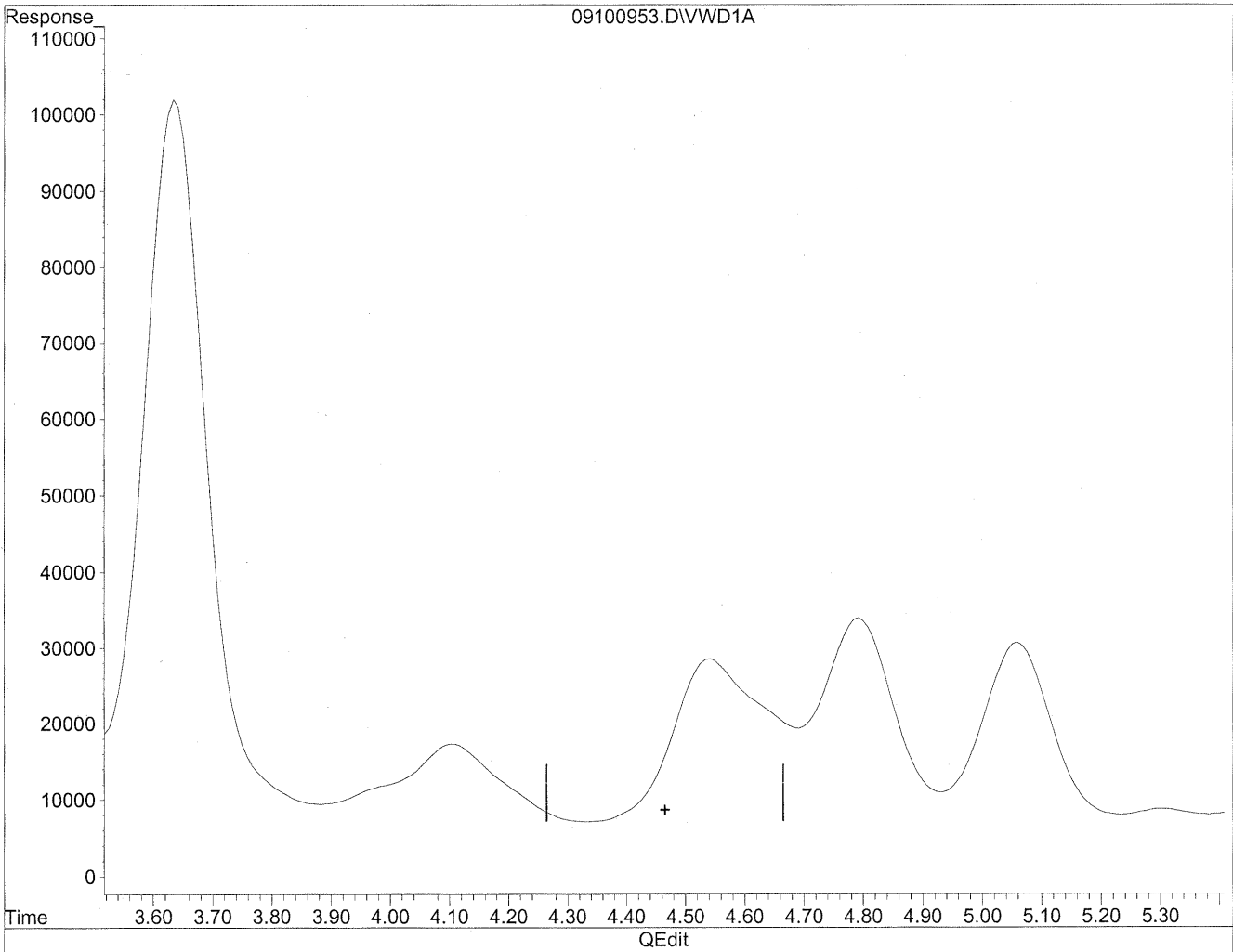


(4) Crotonaldehyde
4.54min 577.909ng/ml
response 2346063

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



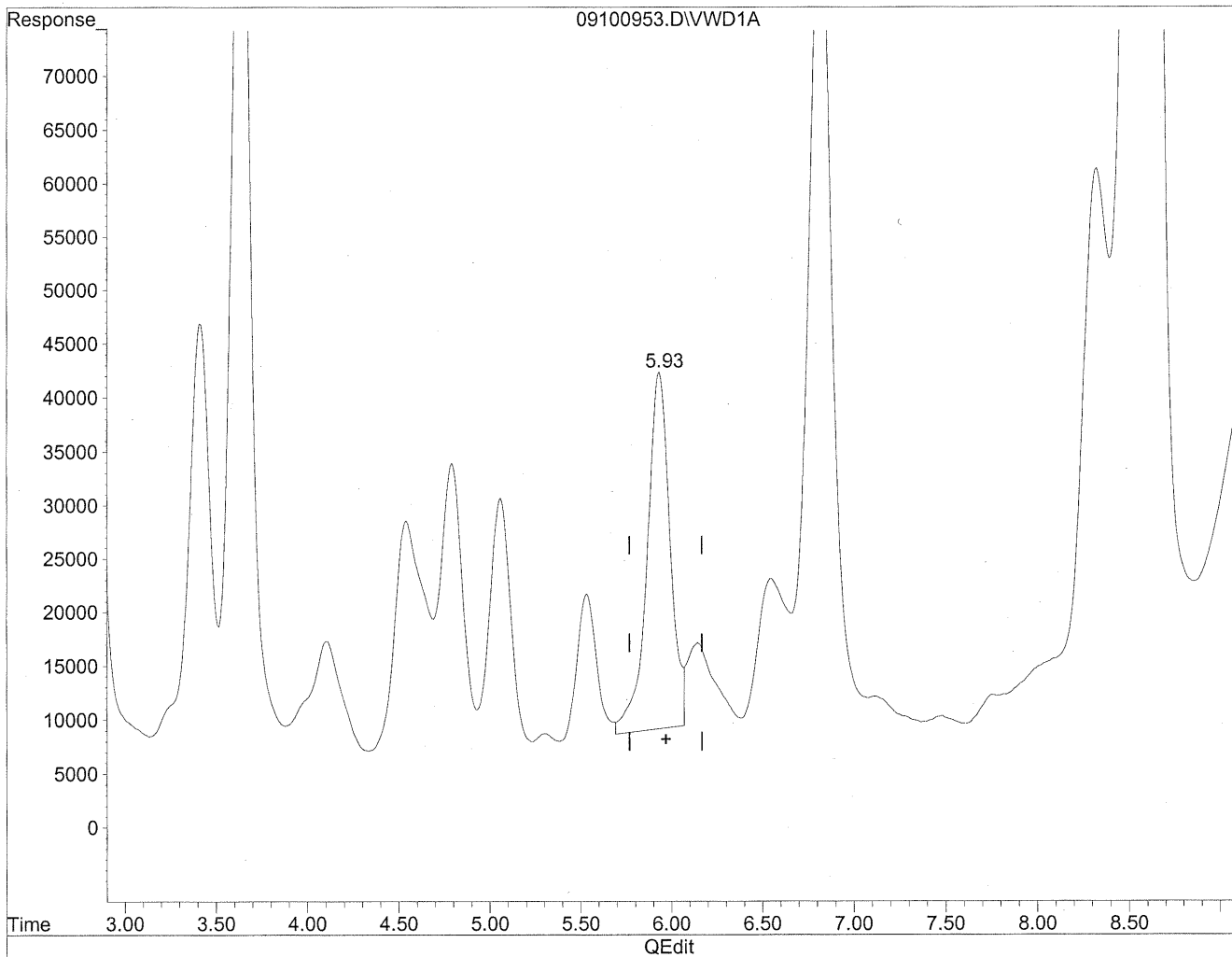
(4) Crotonaldehyde
0.00min 0.000ng/ml d
response 0

(M)
9/16/09
mp
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(6) Benzaldehyde

5.93min 1065.913ng/ml

response 2908214

(+) = Expected Retention Time

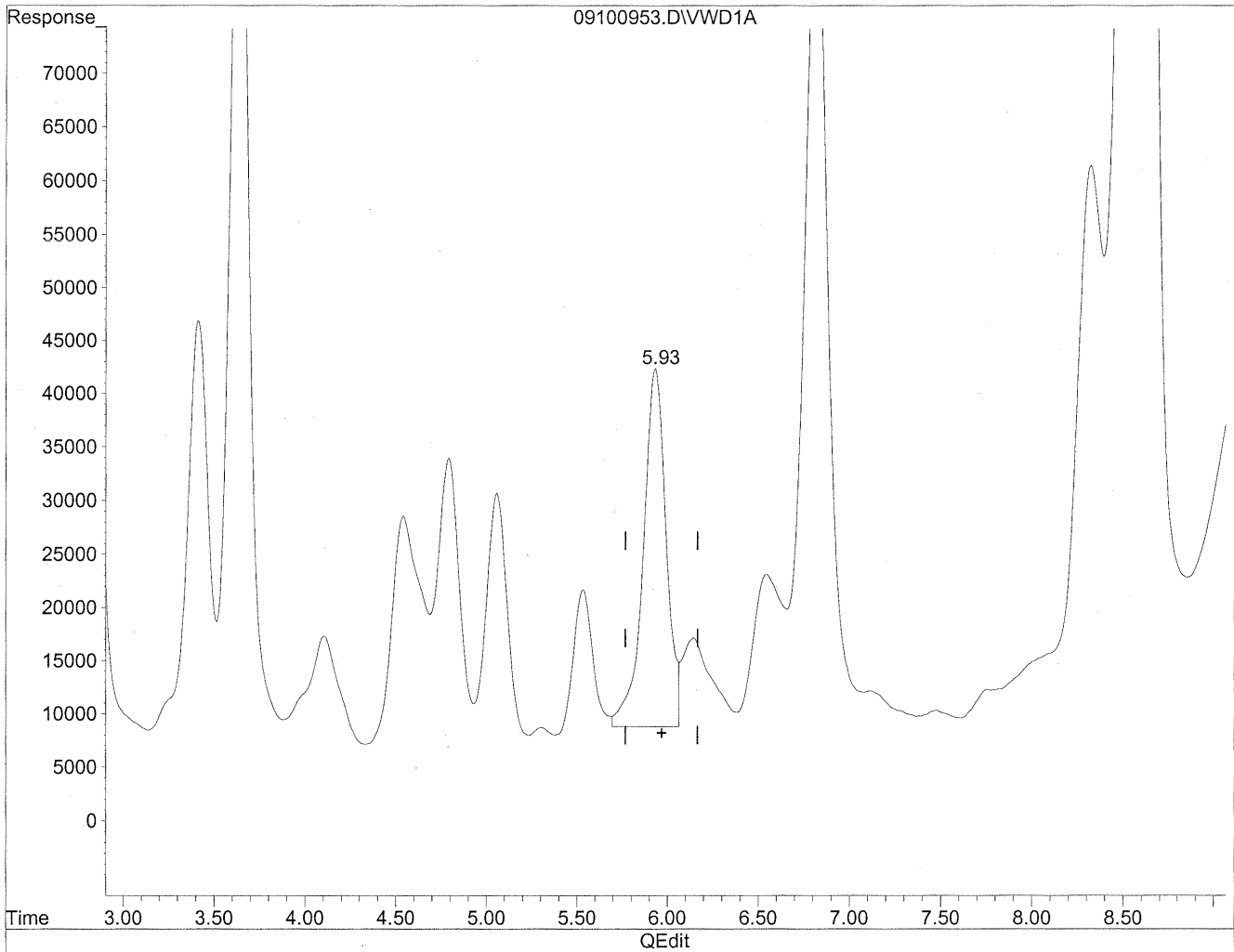
09100953.D TO110909.M

Wed Sep 16 13:53:15 2009

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



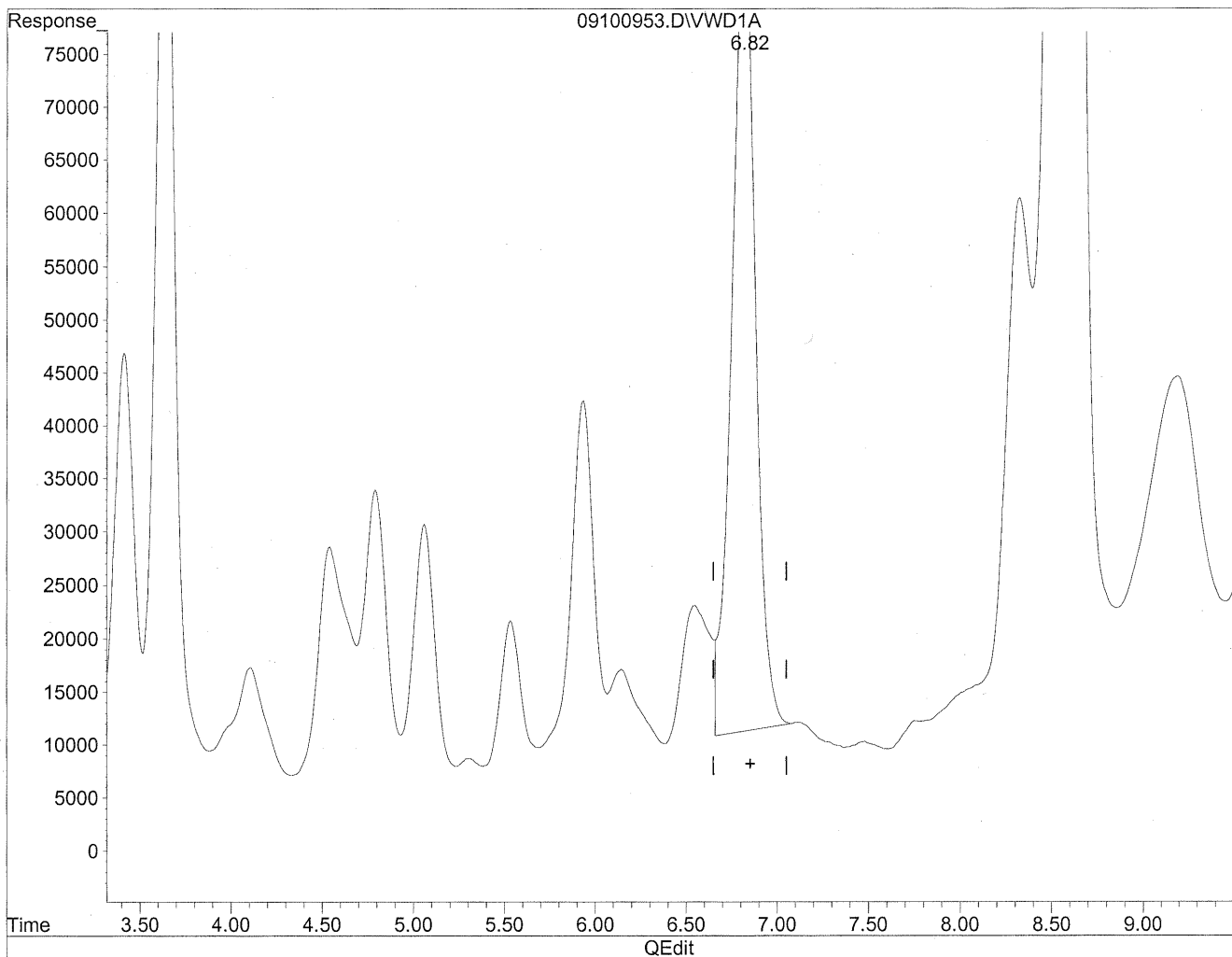
(6) Benzaldehyde
5.93min 1077.120ng/ml m
response 2938790

(M)
9/16/09
ic
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

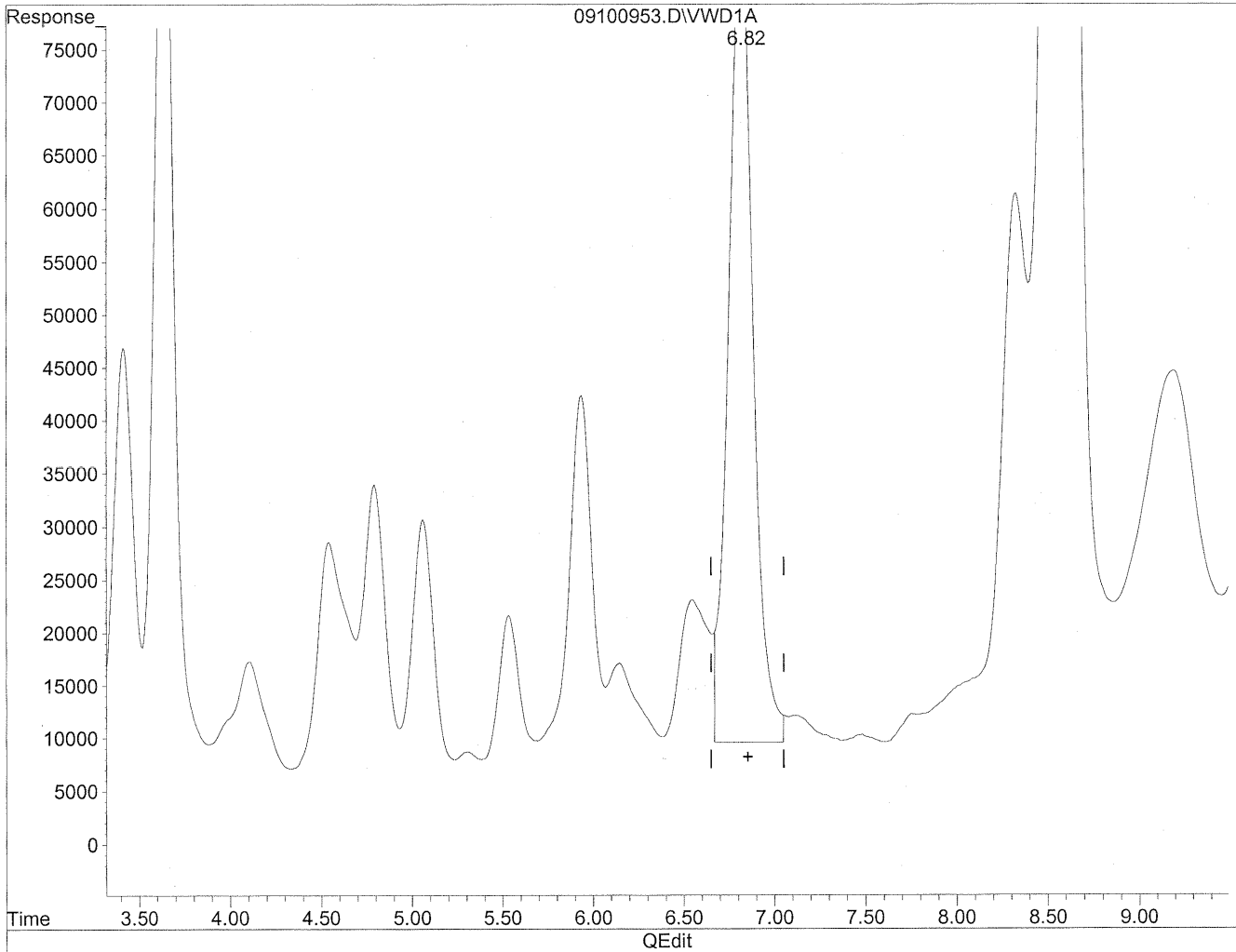


(8) Valeraldehyde
6.82min 2004.710ng/ml
response 6815290

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100953.D Vial: 129
Acq On : 11-Sep-2009, 12:06 Operator: MD
Sample : P0903086-004 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(8) Valeraldehyde
6.82min 2103.091ng/ml m
response 7149750

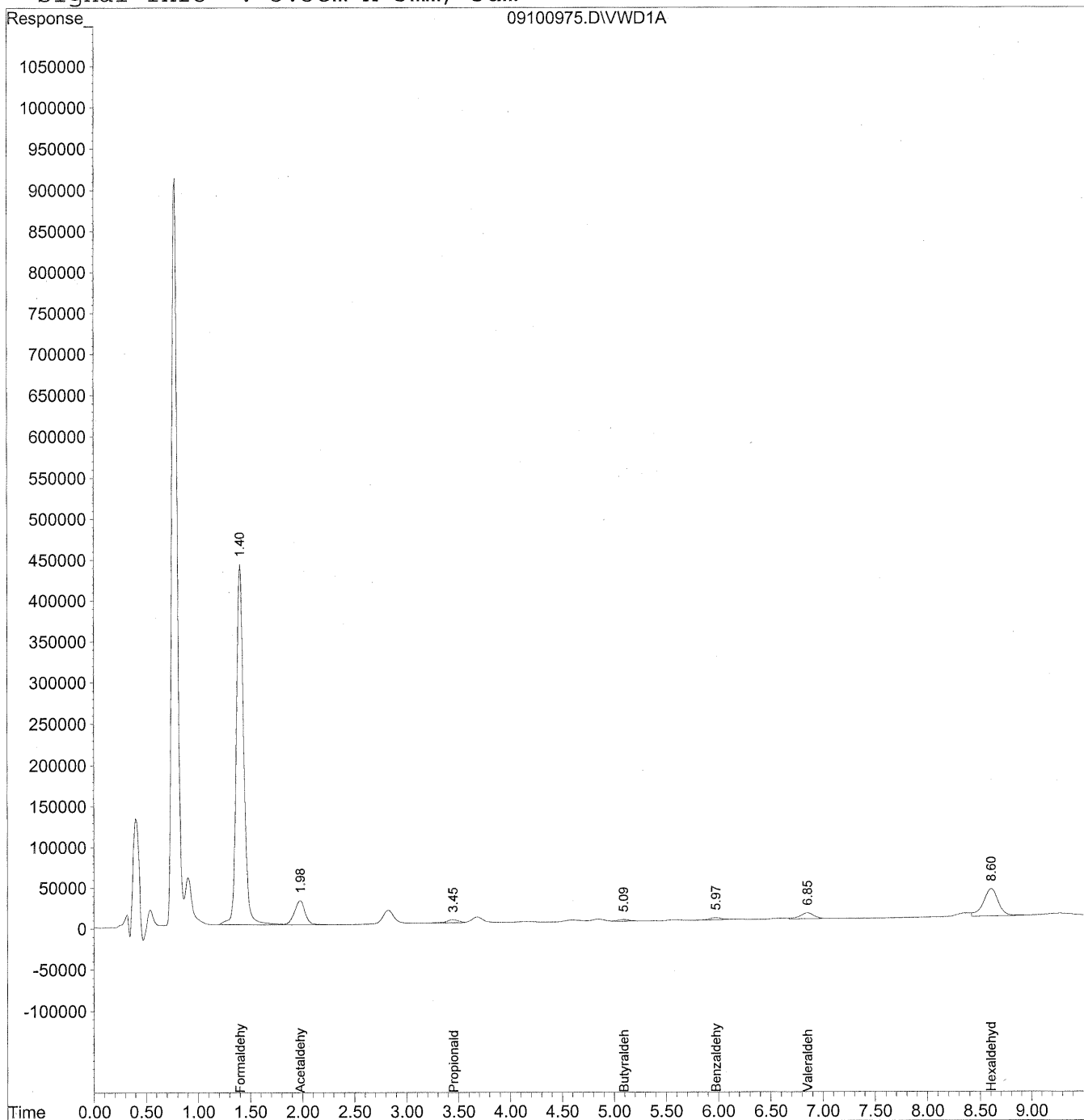
(M)
aldehyde
PC
HC
aldehyde

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100975.D Vial: 7
Acq On : 11-Sep-2009, 16:27 Operator: MD
Sample : P0903086-004 front 10x dil Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 14:01 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100975.D Vial: 7
 Acq On : 11-Sep-2009, 16:27 Operator: MD
 Sample : P0903086-004 front 10x dil Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 14:01 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

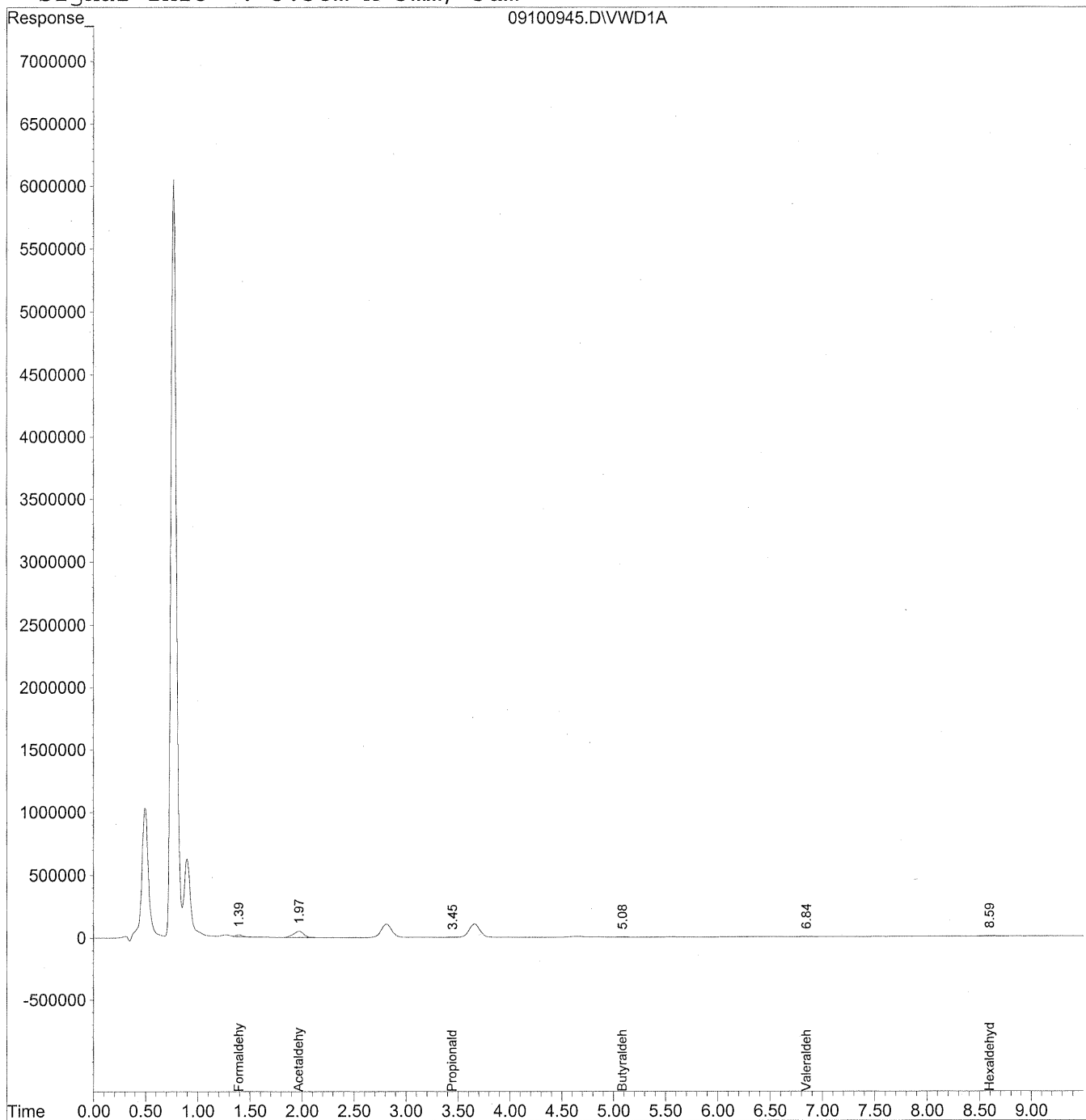
Target Compounds			
1) Formaldehyde	1.40	21876227	2448.256 ng/ml
2) Acetaldehyde	1.98	2159112	332.130 ng/ml
3) Propionaldehyde	3.45	314107	60.430 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	5.09	180994	44.659 ng/ml
6) Benzaldehyde	5.98	191594	70.223 ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	6.85	685891	201.754 ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.61	3362216	1135.606 ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100945.D Vial: 124
Acq On : 11-Sep-2009, 10:31 Operator: MD
Sample : P0903086-004 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:38 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100945.D Vial: 124
 Acq On : 11-Sep-2009, 10:31 Operator: MD
 Sample : P0903086-004 back 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:38 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.40	669275	74.901 ng/ml
2) Acetaldehyde	1.97	3583272	551.205 ng/ml
3) Propionaldehyde	3.45	197292	37.957 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	5.09	195892	48.335 ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	6.85	194458	57.200 ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.60	304859	102.968 ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 104279

Client Project ID: 16512

CAS Project ID: P0903086

CAS Sample ID: P0903086-005

Test Code: EPA Method TO-11A

Instrument ID: HP1050/LC2

Analyst: Madeleine Dangazyan

Sampling Media: Silica Gel DNPH Tube

Test Notes: BC

Date Collected: 8/26/09

Date Received: 9/2/09

Date Analyzed: 9/11/09

Desorption Volume: 1.0 ml

Volume Sampled: 111.8 Liter(s)

CAS #	Compound	Result ng/Sample	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	580	5.2	0.89	4.2	0.73	
75-07-0	Acetaldehyde	310	2.8	0.89	1.6	0.50	
123-38-6	Propionaldehyde	< 100	ND	0.89	ND	0.38	
4170-30-3	Crotonaldehyde, Total	< 100	ND	0.89	ND	0.31	
123-72-8	Butyraldehyde	< 100	ND	0.89	ND	0.30	
100-52-7	Benzaldehyde	< 100	ND	0.89	ND	0.21	
590-86-3	Isovaleraldehyde	< 100	ND	0.89	ND	0.25	
110-62-3	Valeraldehyde	< 100	ND	0.89	ND	0.25	
529-20-4	o-Tolualdehyde	< 100	ND	0.89	ND	0.18	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	ND	1.8	ND	0.36	
66-25-1	n-Hexaldehyde	110	0.98	0.89	0.24	0.22	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	ND	0.89	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

Verified By: _____

Date: _____

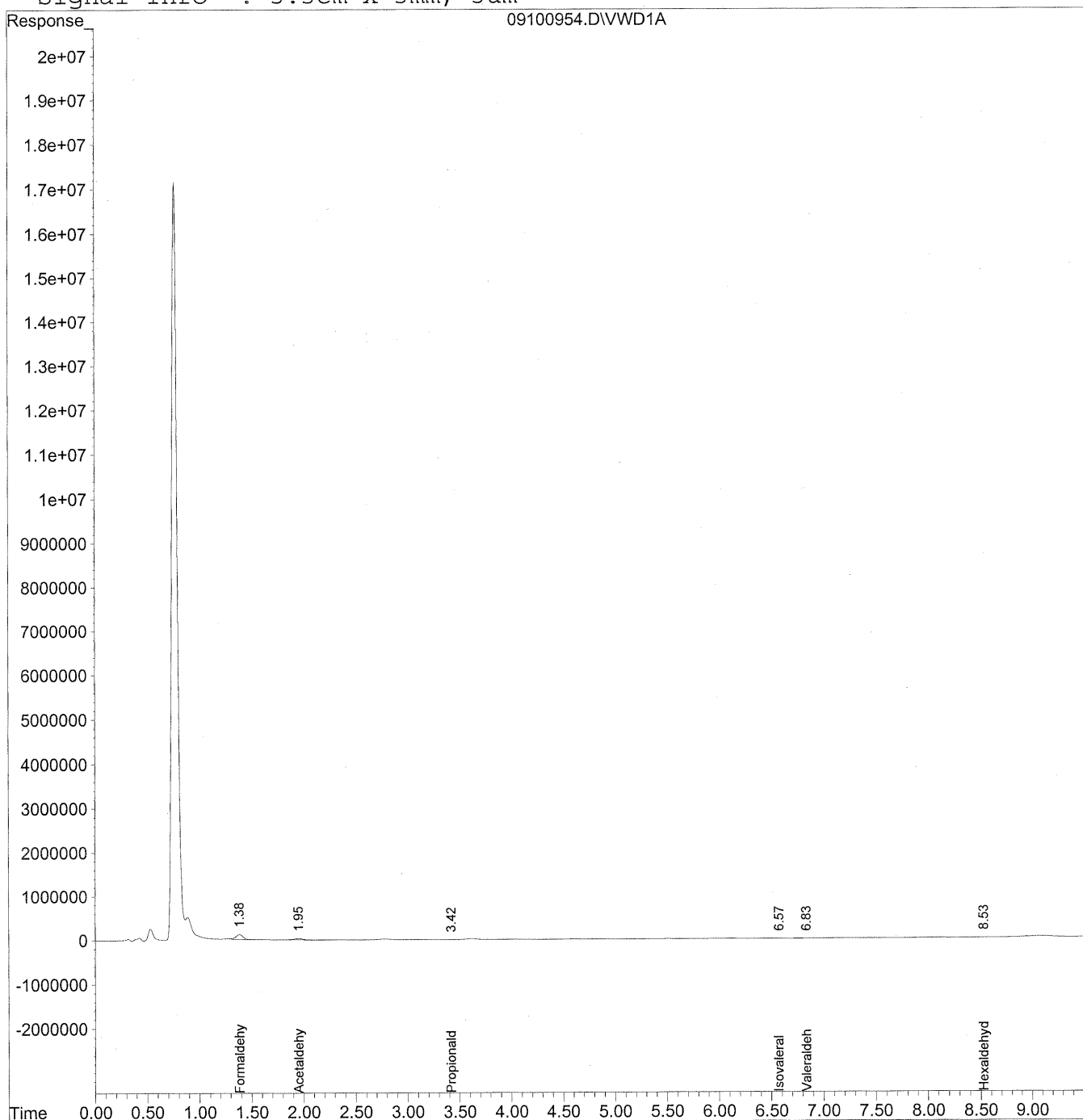
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:58 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
 Acq On : 11-Sep-2009, 12:18 Operator: MD
 Sample : P0903086-005 front 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:58 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

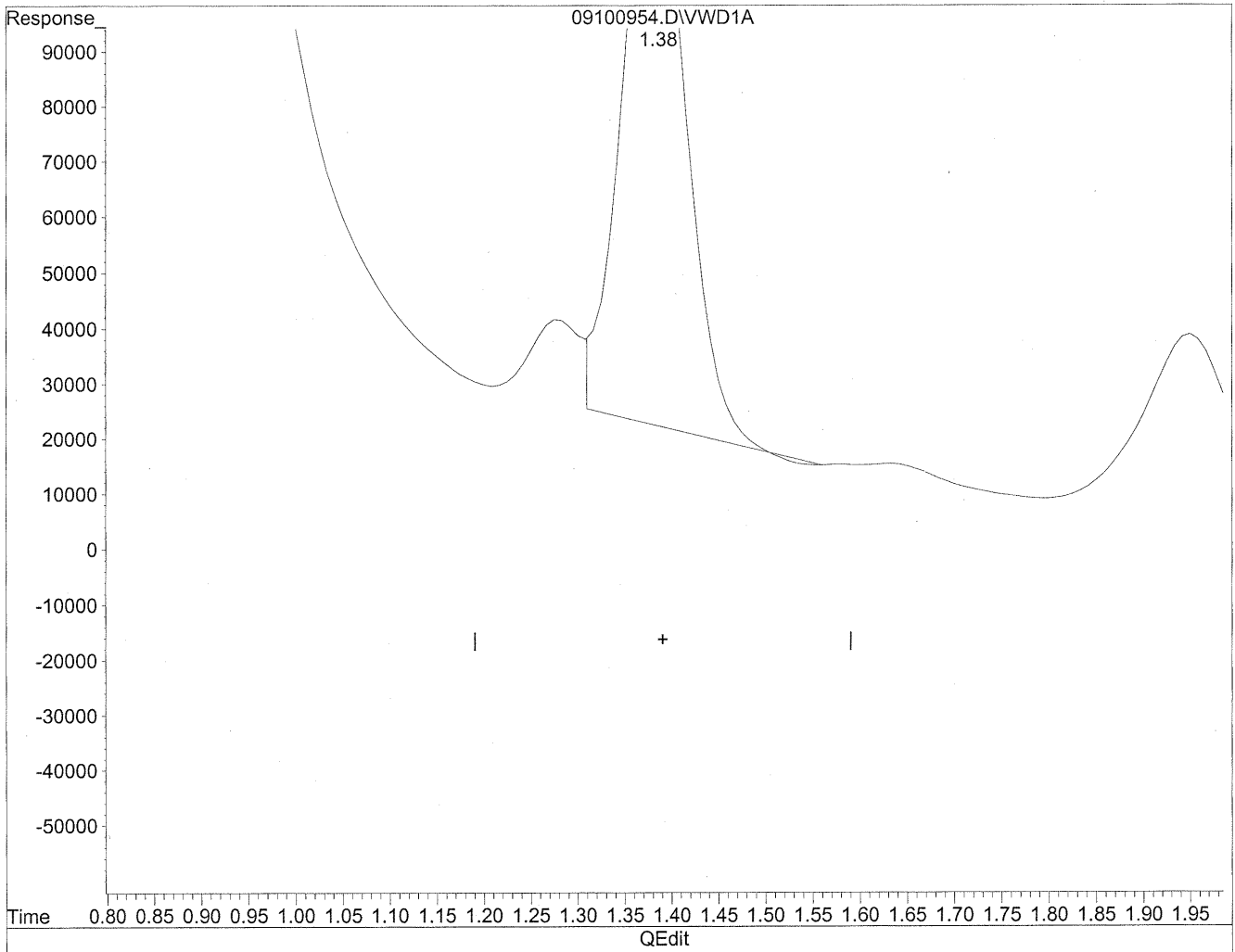
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.38	5161960	577.696 ng/mlm
2) Acetaldehyde	1.95	2043230	314.304 ng/mlm
3) Propionaldehyde	3.42	149923	28.843 ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	0.00	0	N.D. ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	6.57	26592	7.726 ng/ml
8) Valeraldehyde	6.83	64455	18.959 ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.53	323449	109.247 ng/mlm
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

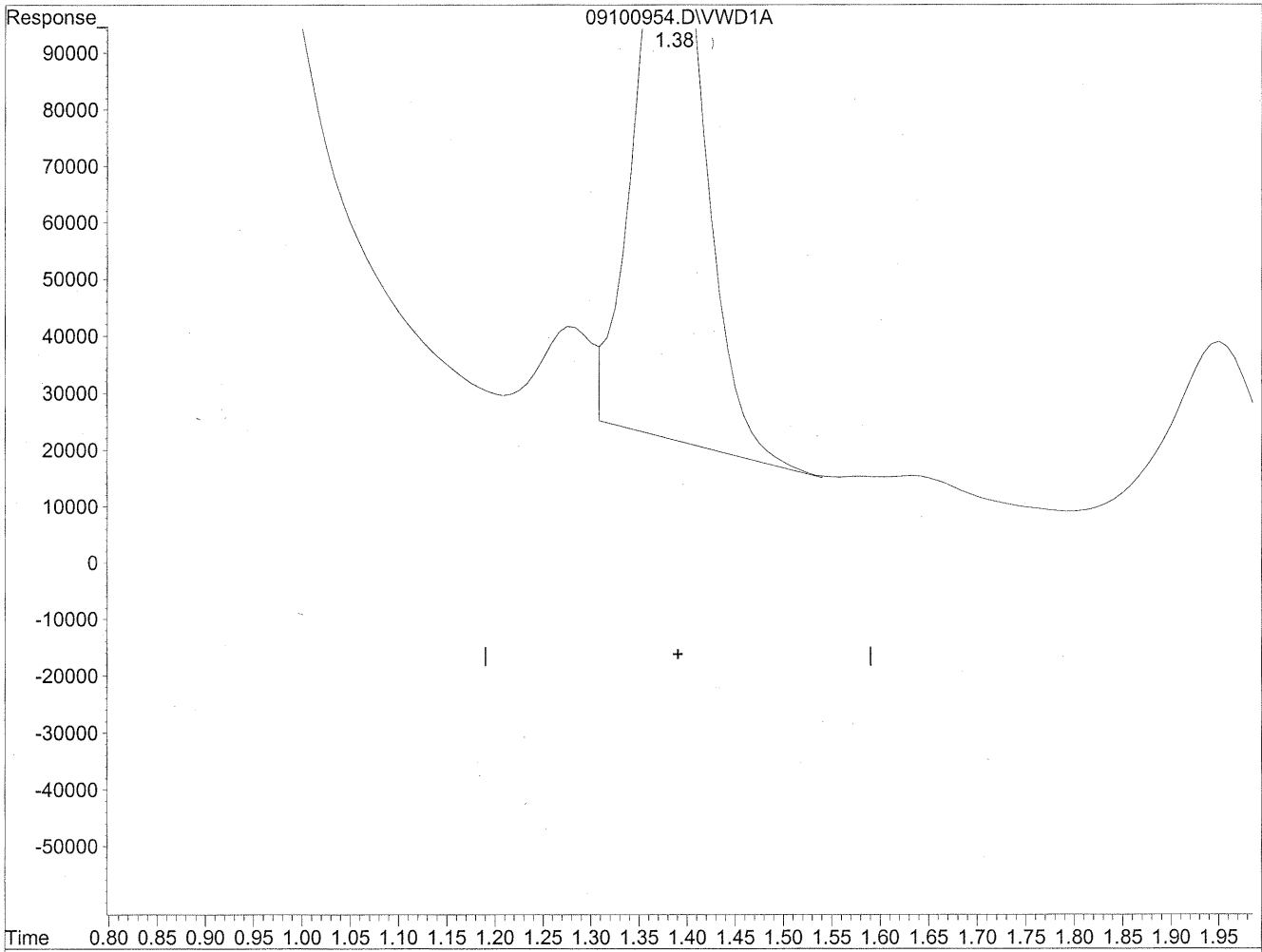


(1) Formaldehyde
1.38min 571.202ng/ml
response 5103935

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



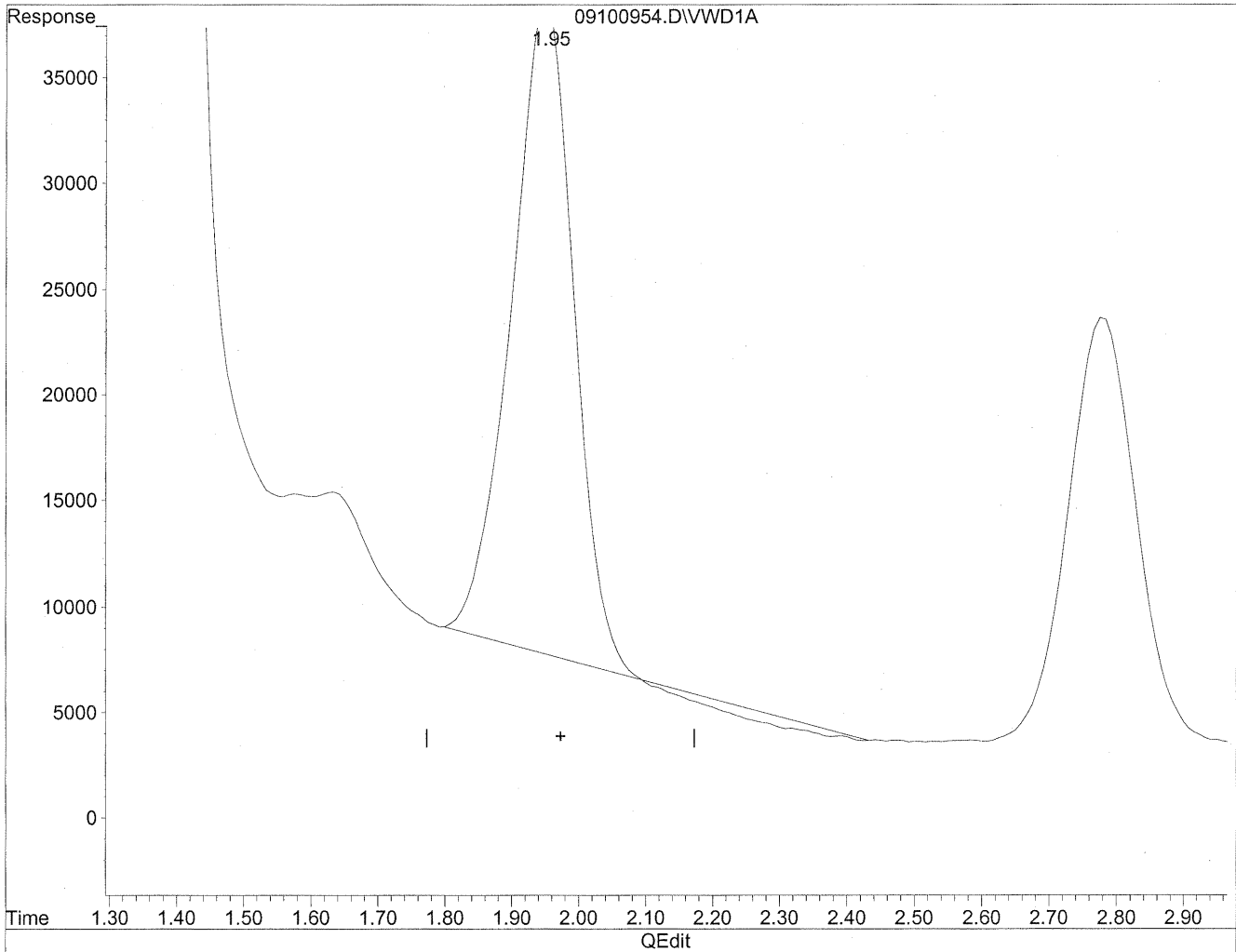
(1) Formaldehyde
1.38min 577.696ng/ml m
response 5161960

MD
9/16/09
PR
46
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

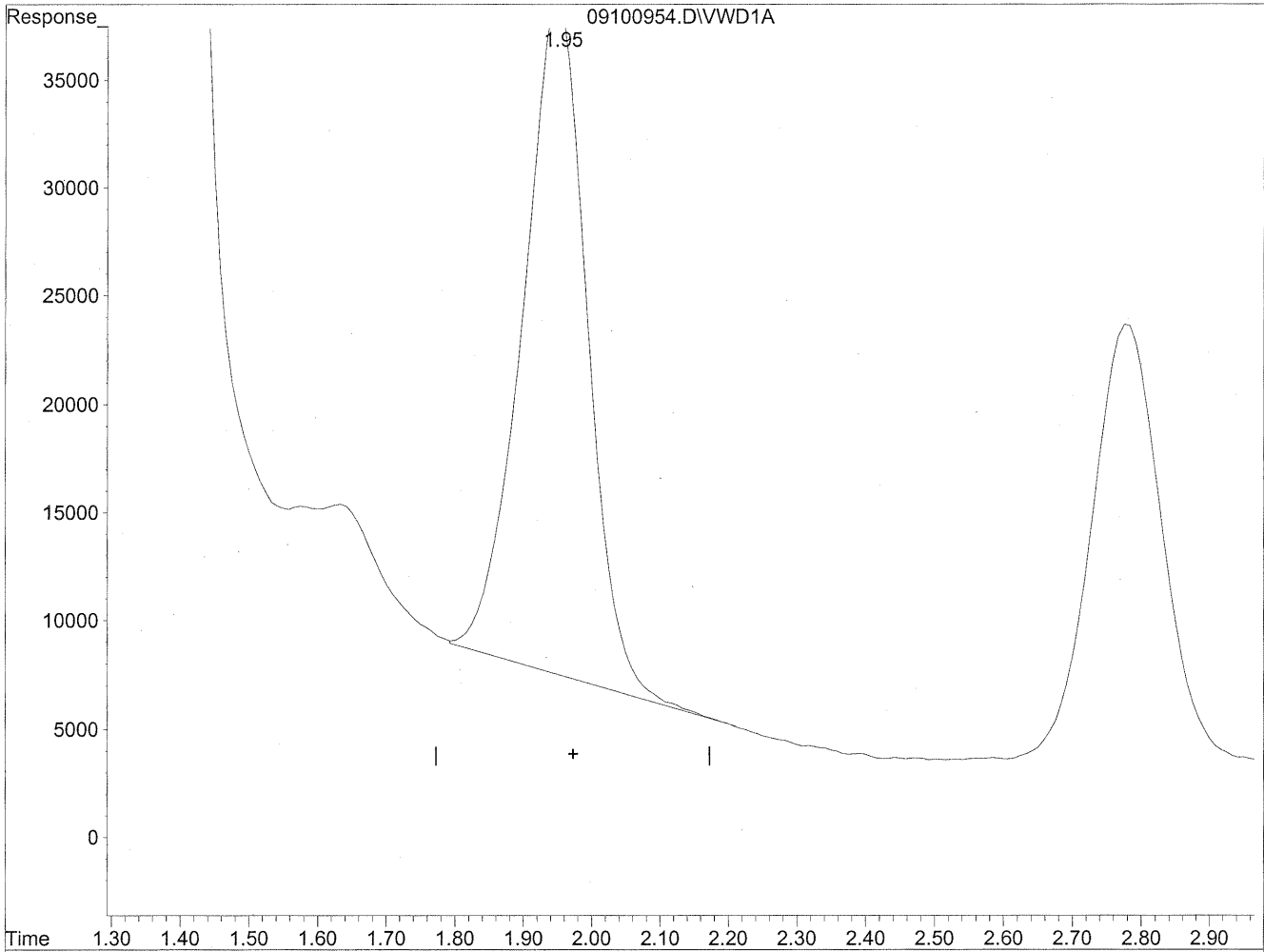


(2) Acetaldehyde
1.95min 297.864ng/ml
response 1936356

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



QEdit

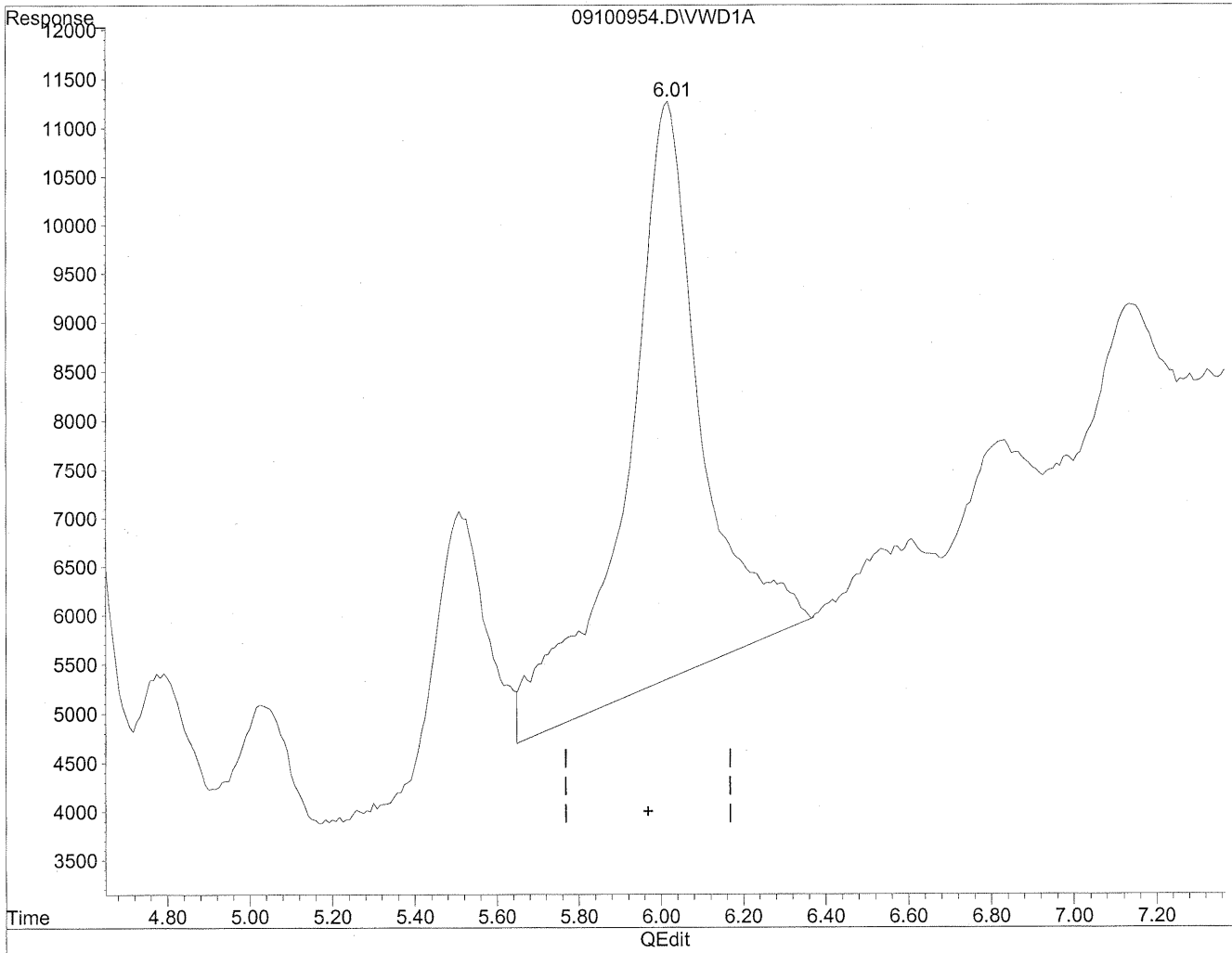
(2) Acetaldehyde
1.95min 314.304ng/ml m
response 2043230

(m)
aldehyde
pe
HC
9/16/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

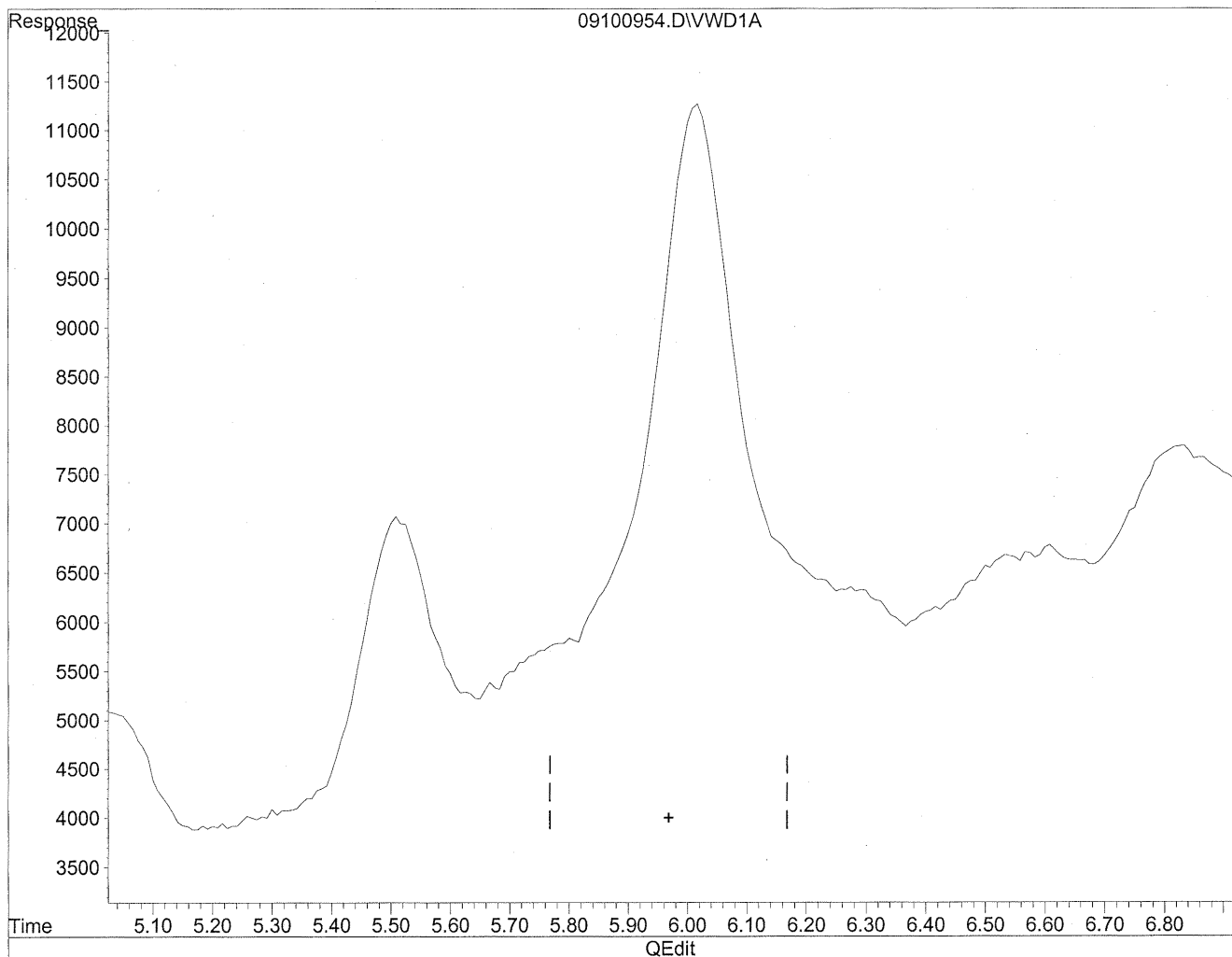


(6) Benzaldehyde
6.02min 276.032ng/ml
response 753118

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



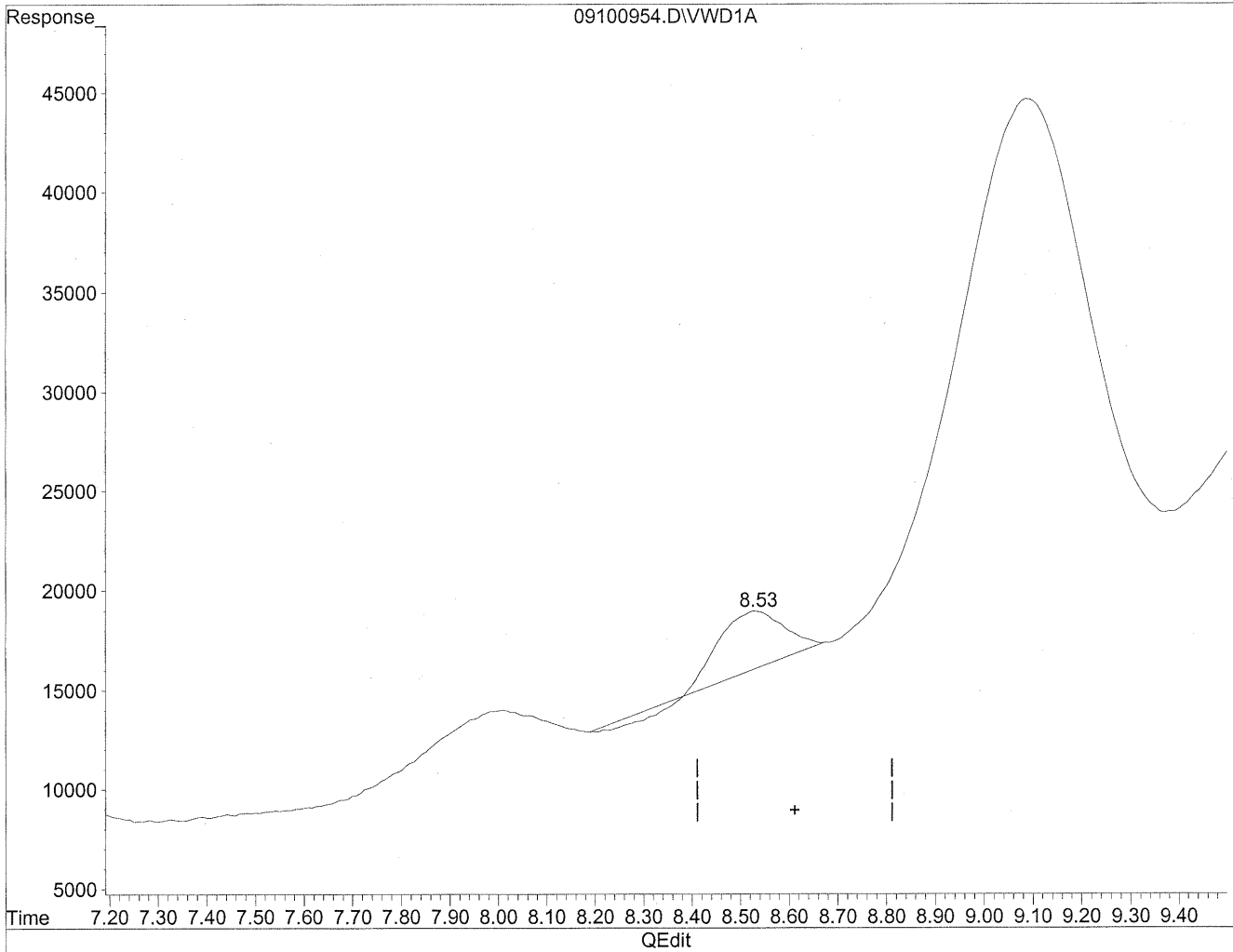
(6) Benzaldehyde
0.00min 0.000ng/ml d
response 0

MP
9/16/09
MP
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

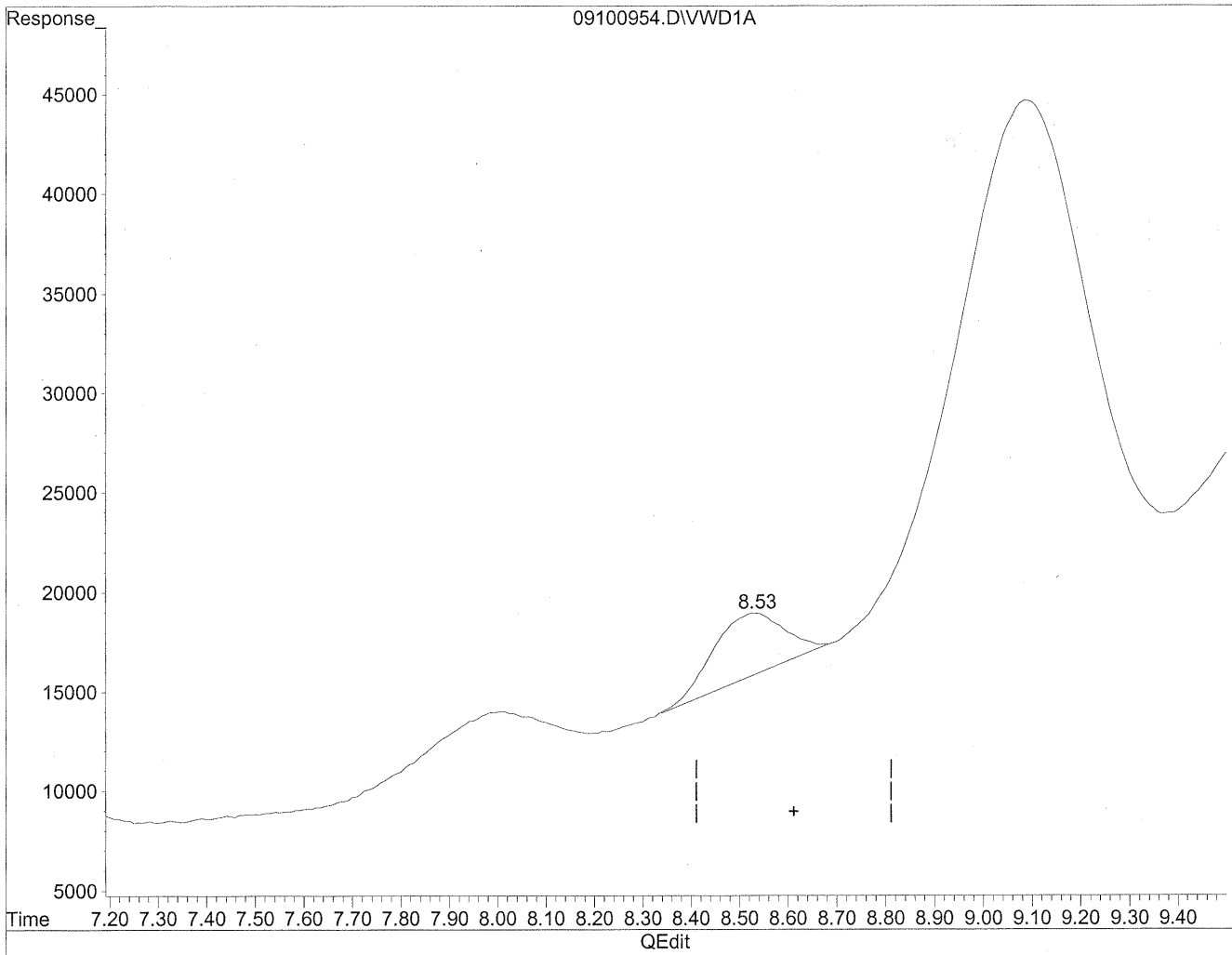


(11) Hexaldehyde
8.53min 79.941ng/ml
response 236684

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100954.D Vial: 130
Acq On : 11-Sep-2009, 12:18 Operator: MD
Sample : P0903086-005 front 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:54 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(11) Hexaldehyde
8.53min 109.247ng/ml m
response 323449

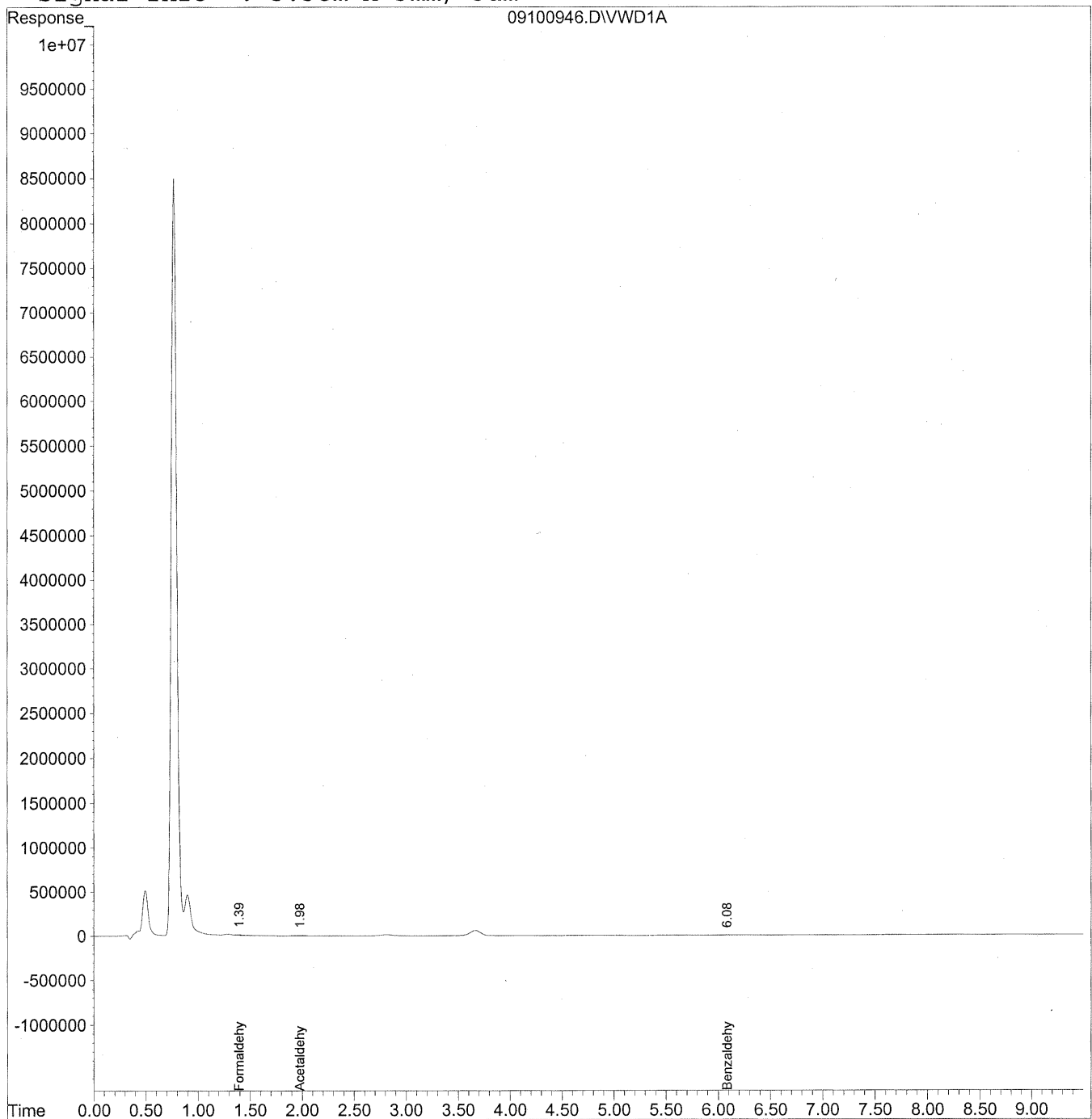
(M)
aldehyde
R
+K
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100946.D Vial: 125
Acq On : 11-Sep-2009, 10:43 Operator: MD
Sample : P0903086-005 back 1.0ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:39 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100946.D Vial: 125
 Acq On : 11-Sep-2009, 10:43 Operator: MD
 Sample : P0903086-005 back 1.0ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:39 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.39	190107	21.276 ng/ml
2) Acetaldehyde	1.98	417338	64.198 ng/ml
3) Propionaldehyde	0.00	0	N.D. ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	0.00	0	N.D. ng/ml
6) Benzaldehyde	6.08f	214304	78.546 ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	0.00	0	N.D. ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	0.00	0	N.D. ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Method Blank

Client Project ID: 16512

CAS Project ID: P0903086

CAS Sample ID: P090911-MB

Test Code: EPA Method TO-11A

Instrument ID: HP1050/LC2

Analyst: Madeleine Dangazyan

Sampling Media: Silica Gel DNPH Tube

Test Notes: BC

Date Collected: NA

Date Received: NA

Date Analyzed: 09/11/09

Desorption Volume: 1.0 ml

Volume Sampled: NA Liter(s)

CAS #	Compound	Result ng/Sample	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
50-00-0	Formaldehyde	< 100	NA	NA	NA	NA	
75-07-0	Acetaldehyde	< 100	NA	NA	NA	NA	
123-38-6	Propionaldehyde	< 100	NA	NA	NA	NA	
4170-30-3	Crotonaldehyde, Total	< 100	NA	NA	NA	NA	
123-72-8	Butyraldehyde	< 100	NA	NA	NA	NA	
100-52-7	Benzaldehyde	< 100	NA	NA	NA	NA	
590-86-3	Isovaleraldehyde	< 100	NA	NA	NA	NA	
110-62-3	Valeraldehyde	< 100	NA	NA	NA	NA	
529-20-4	o-Tolualdehyde	< 100	NA	NA	NA	NA	
620-23-5							
104-87-0	m,p-Tolualdehyde	< 200	NA	NA	NA	NA	
66-25-1	n-Hexaldehyde	< 100	NA	NA	NA	NA	
5779-94-2	2,5-Dimethylbenzaldehyde	< 100	NA	NA	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

BC = Results reported are not blank corrected.

NA = Not applicable.

Verified By: _____

Date: _____

9/17/09

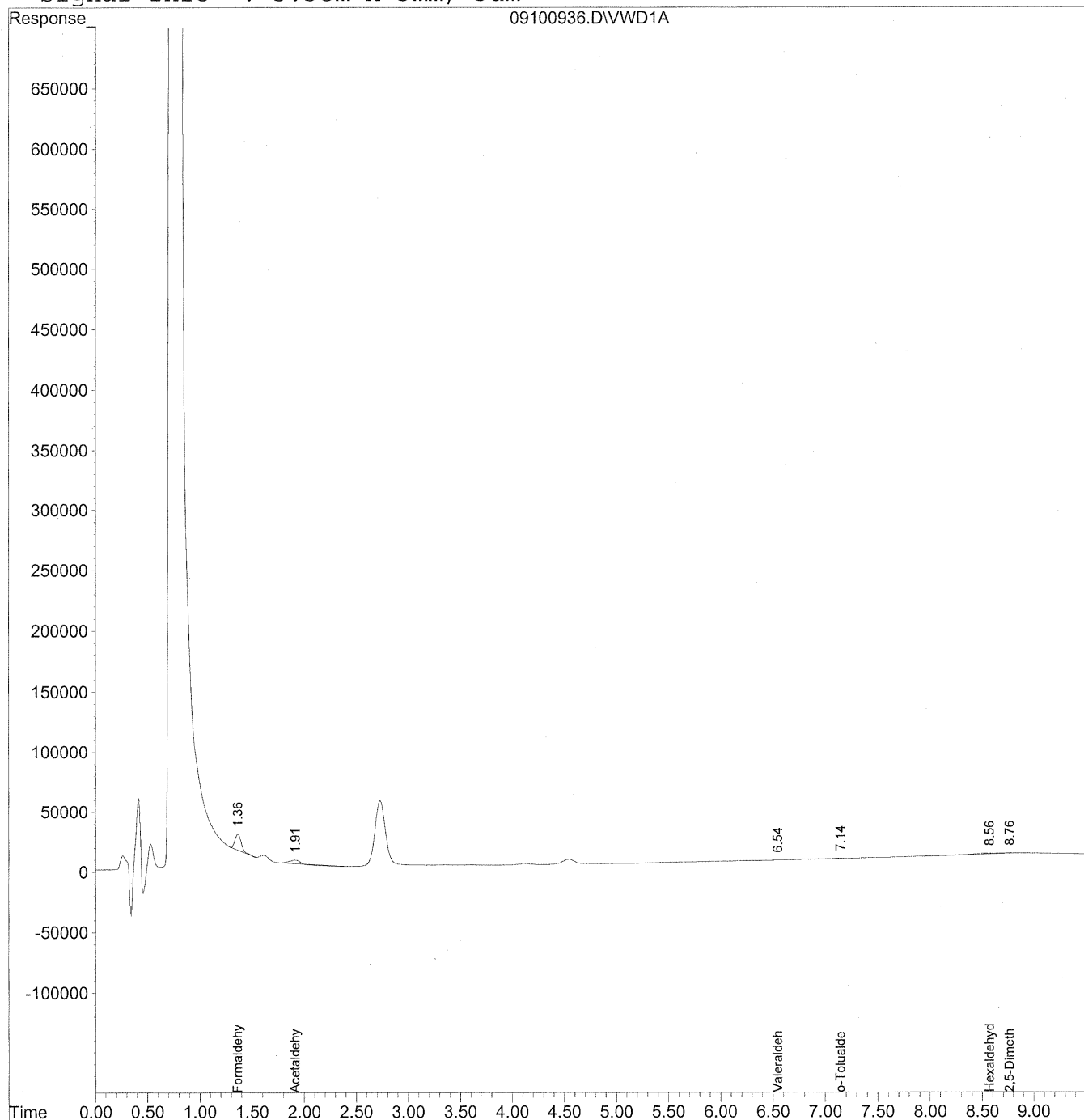
88

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100936.D Vial: 115
Acq On : 11-Sep-2009, 08:42 Operator: MD
Sample : MB-2 front 1.0ml lot 5855/5994 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 11:44 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100936.D Vial: 115
 Acq On : 11-Sep-2009, 08:42 Operator: MD
 Sample : MB-2 front 1.0ml lot 5855/5994 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 11:44 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 11:12:09 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

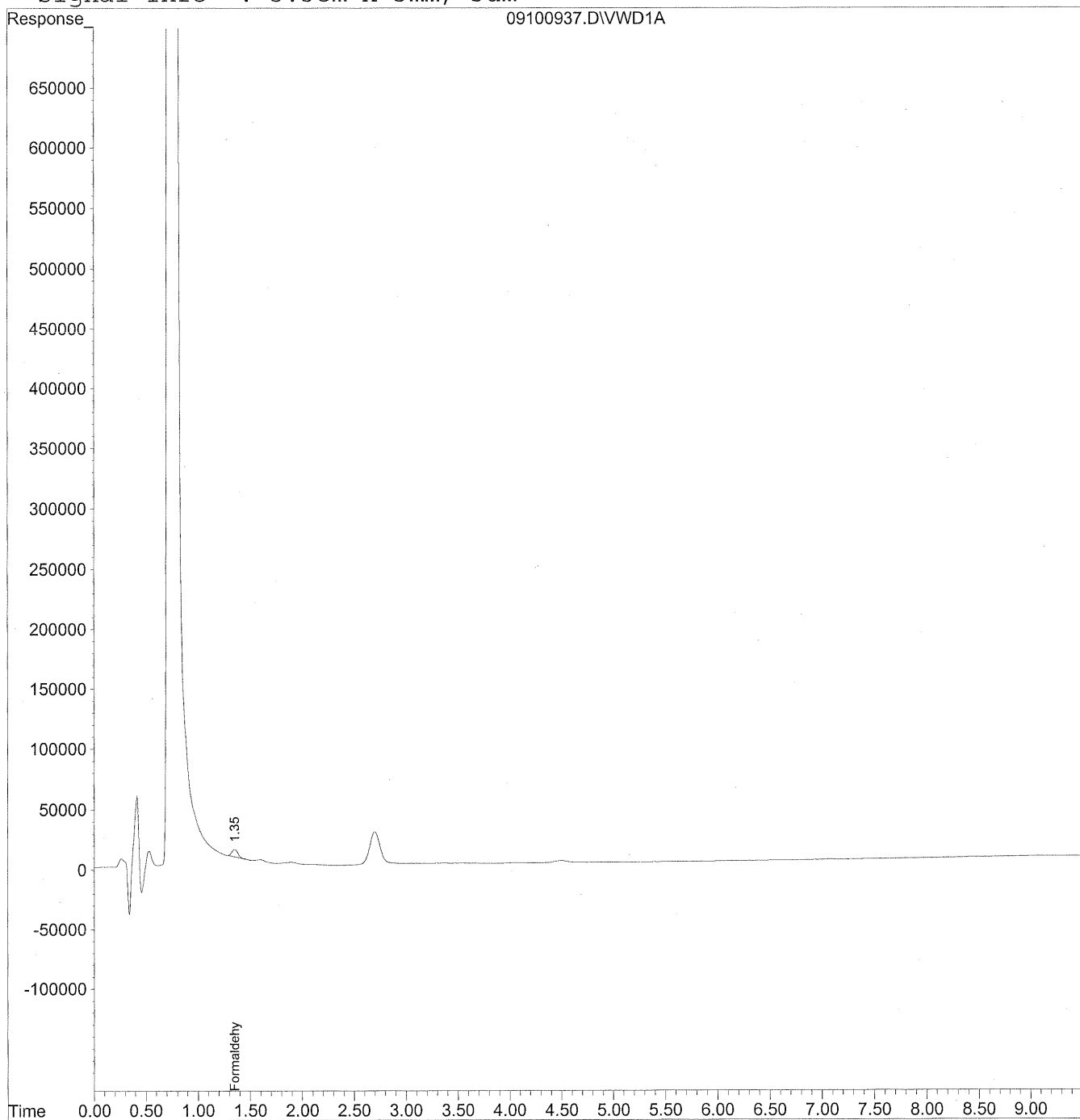
Target Compounds			
1) Formaldehyde	1.37	574269	64.269 ng/ml
2) Acetaldehyde	1.91	118645	18.251 ng/ml
3) Propionaldehyde	0.00	0	N.D. ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	0.00	0	N.D. ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	6.55f	16525	4.861 ng/ml
9) o-Tolualdehyde	7.15	5800	2.643 ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	8.57f	97060	32.783 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.76	26225	13.142 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100937.D Vial: 116
Acq On : 11-Sep-2009, 08:54 Operator: MD
Sample : MB-2 back 1.0ml lot 5855/5994 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 11:45 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 11:12:09 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100937.D Vial: 116
 Acq On : 11-Sep-2009, 08:54 Operator: MD
 Sample : MB-2 back 1.0ml lot 5855/5994 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 11:45 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 11:12:09 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.35	256994	28.761 ng/ml
2) Acetaldehyde	0.00	0	N.D. ng/ml
3) Propionaldehyde	0.00	0	N.D. ng/ml
4) Crotonaldehyde	0.00	0	N.D. ng/ml
5) Butyraldehyde	0.00	0	N.D. ng/ml
6) Benzaldehyde	0.00	0	N.D. ng/ml
7) Isovaleraldehyde	0.00	0	N.D. ng/ml
8) Valeraldehyde	0.00	0	N.D. ng/ml
9) o-Tolualdehyde	0.00	0	N.D. ng/ml
10) m,p-Tolualdehyde	0.00	0	N.D. ng/ml
11) Hexaldehyde	0.00	0	N.D. ng/ml
12) 2,5-Dimethylbenzaldehyde	0.00	0	N.D. ng/ml

INITIAL CALIBRATION STANDARDS

Response Factor Report VWD

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Thu Sep 11 13:54:46 2008

Calibration Files

50 =09090910.D 100 =09090913.D 500 =09090916.D
 1500 =09090919.D 5000 =09090922.D 10 =09090925.D

Compound	50	100	500	1500	5000	10	Avg	%RSD
1) Formaldehyde	9.033	8.595	8.515	9.020	9.302	9.148	8.935 E3	3.50
2) Acetaldehyde	6.537	6.232	6.129	6.593	6.799	6.715	6.501 E3	4.10
3) Propionaldehyde	5.378	4.996	5.013	5.195	5.337	5.268	5.198 E3	3.13
4) Crotonaldehyde	3.974	3.795	3.909	4.099	4.319	4.261	4.060 E3	5.04
5) Butyraldehyde	4.071	3.828	3.819	4.080	4.290	4.229	4.053 E3	4.86
6) Benzaldehyde	2.793	2.509	2.569	2.745	2.894	2.860	2.728 E3	5.74
7) Isovaleraldehyde	3.594	3.260	3.257	3.437	3.577	3.525	3.442 E3	4.42
8) Valeraldehyde	3.385	3.277	3.176	3.434	3.588	3.539	3.400 E3	4.58
9) o-Tolualdehyde	2.114	1.981	2.037	2.249	2.401	2.386	2.195 E3	8.13
10) m,p-Tolualdehyde	2.187	2.029	2.198	2.391	2.507	2.470	2.297 E3	8.18
11) Hexaldehyde	2.976	2.854	2.845	2.973	3.086	3.031	2.961 E3	3.24
12) 2,5-Dimethylbenzald	1.800	1.761	1.922	2.067	2.228	2.194	1.995 E3	9.95

Calibration Status Report VWD

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	50	50.00	0.00	J:\LC02\DATA\TO11A\2009_09\09\09090910.D
2	100	100.00	0.00	J:\LC02\DATA\TO11A\2009_09\09\09090913.D
3	500	500.00	0.00	J:\LC02\DATA\TO11A\2009_09\09\09090916.D
4	1500	1500.00	0.00	J:\LC02\DATA\TO11A\2009_09\09\09090919.D
5	5000	5000.00	0.00	J:\LC02\DATA\TO11A\2009_09\09\09090922.D
6	10	10000.00	0.00	J:\LC02\DATA\TO11A\2009_09\09\09090924.D

#	ID	Update Time	Quant Time	Acquisition Time
1	50	Sep 10 08:49 2009	Sep 10 08:49 19109	09-Sep-2009, 15:43
2	100	Sep 10 09:03 2009	Sep 10 09:02 19109	09-Sep-2009, 16:17
3	500	Sep 10 08:54 2009	Sep 10 08:54 19109	09-Sep-2009, 16:51
4	1500	Sep 10 08:56 2009	Sep 10 08:56 19109	09-Sep-2009, 17:26
5	5000	Sep 10 08:58 2009	Sep 10 08:58 19109	09-Sep-2009, 18:00
6	10	Sep 10 08:59 2009	Sep 10 08:59 19109	09-Sep-2009, 18:23

TO110909.M

Thu Sep 10 10:45:40 2009

Edit Integration Events [X]

POSSIBLE EVENTS: [Dropdown]

EVENT	VALUE	TIME
Initial Area Reject	5000	Initial
Initial Area Reject	5000	Initial ▲
Initial Peak Width	0.010	Initial
Shoulder Detection	OFF	Initial
Initial Threshold	12.0	Initial
Integrator OFF		0.001
Integrator ON		0.950 ▼

Edit Integration Events [X]

POSSIBLE EVENTS: [Dropdown]

EVENT	VALUE	TIME
Initial Area Reject	5000	Initial
Initial Peak Width	0.010	Initial ▲
Shoulder Detection	OFF	Initial
Initial Threshold	12.0	Initial
Integrator OFF		0.001
Integrator ON		0.950
Baseline Now		7.800 ▼

TO-11A Aldehyde-DNPH Stock Solution Standard S21-06300801

Source: AccuStandard Inc.

Catalog No: M-8315-R2-DNPH

Lot: B8060121

Solvent: ACN

Expiration Date: 06/12/11

	MW	Aldehyde-DNPH MW*	Manufacturer Prepared Concentration as Aldehyde-DNPH (ug/mL)	Calculated Concentration as Aldehyde (ug/mL)	ICV S21-07270907 (nominal ng/mL)	ICV S21-07270907 (Actual, ng/mL)	% Diff
Formaldehyde	30.03	210.03	100	14.30	1430	1453.52	1.64%
Acetaldehyde	44.05	224.05	100.2	19.70	1970	2007.42	1.90%
Acetone	58.08	238.08	100.2	24.41	2444	not reported	
Acrolein	56.06	236.06	103.1	24.48	2448	not reported	
Propionaldehyde	58.08	238.08	100.2	24.44	2444	2388.13	2.29%
Crotonaldehyde	70.09	250.09	100.2	28.08	2808	2879.18	2.53%
Butyraldehyde	72.11	252.11	100	28.60	2860	2877.59	0.61%
Benzaldehyde	106.12	286.12	100	37.09	3709	3693.25	0.42%
Isovaleraldehyde	86.13	266.13	100.2	32.43	3243	3227.07	0.49%
Valeraldehyde	86.13	266.13	100.1	32.40	3240	3280.39	1.25%
o-Tolualdehyde	120.15	300.15	100.1	40.07	4007	4053.17	1.15%
m,p-Tolualdehyde	120.15	300.15	100.3	80.30	8030	8394.52	4.54%
Hexaldehyde	100.16	280.16	100.3	35.86	3586	3443.52	3.97%
2,5-Dimethylbenzaldehyde	134.18	314.18	100.3	42.84	4284	4423.49	3.26%

(* MW of DNPH is 198g/mol. The result of a nucleophilic reaction of aldehyde & DNPH is a hydrazone derivative with the loss of H2O, 18g/mol)

COLUMBIA ANALYTICAL SERVICES, INC.

Method: TO-11A

Printed : 09/10/09

Analyst: MD

Instrument : LC#02

Date Analysis : 09/09/09

Detector : UV-VIS 360

Sample Amount : 3ul

CALIBRATION RESPONSE FACTOR SUMMARY

Calibration Level	Form-Aldehyde	Acet-Aldehyde	Propion-Aldehyde	Croton-Aldehyde	Butyr-Aldehyde	Benz-Aldehyde	% rpd
50ng/ml TO-11A S2	443088	311721	257497	205520	199284	136041	2.60%
50ng/ml TO-11A S2	447251	327663	268082	200887	217482	140658	0.71%
50ng/ml TO-11A S2	464552	341116	281140	189710	193856	142307	1.89%
100ng/ml TO-11A S	857936	602866	495705	389577	390139	249897	0.42%
100ng/ml TO-11A S	856527	664731	489979	375407	399611	241433	3.79%
100ng/ml TO-11A S	864000	602096	512978	373596	358623	261486	4.20%
500ng/ml TO-11A S	4290125	3109621	2494796	1900371	1886701	1323186	3.01%
500ng/ml TO-11A S	4242920	2996333	2520033	1968873	1894865	1238947	3.54%
500ng/ml TO-11A S	4239441	3088021	2504937	1993623	1946571	1291253	0.53%
1500ng/ml TO-11A	13461963	9836721	7740242	6180043	6161274	4059200	1.43%
1500ng/ml TO-11A	13578339	9942887	7876607	6053894	6038847	4163474	1.11%
1500ng/ml TO-11A	13548320	9888425	7759817	6211709	6160753	4131112	0.32%
5000ng/ml TO-11A	46422998	33949113	26460164	21469148	21371531	14455457	0.09%
5000ng/ml TO-11A	46464064	33977292	26758092	21604348	21444271	14435192	0.23%
5000ng/ml TO-11A	46648983	34054104	26843474	21717189	21538832	14515721	0.32%
10000ng/ml TO-11A	91542792	67198566	52731710	42623472	42304249	28602353	0.02%
10000ng/ml TO-11A	91301664	67004053	52551284	42531897	42207282	28552063	0.15%
10000ng/ml TO-11A	91595894	67244158	52752024	42676337	42347195	28631645	0.13%

COLUMBIA ANALYTICAL SERVICES, INC.

Method: TO-11A Printed : 09/10/09
 Analyst: Instrument : LC#02
 Date Analysis : 09/09/09
 Detector : UV-VIS 360
 Sample Amount : 3ul

CALIBRATION RESPONSE FACTOR SUMMARY

Calibration Level	Isovaler- Aldehyde	Valer- Aldehyde	o-Tolu- Aldehyde	m,p-Tolu- Aldehyde	Hex- Aldehyde	2,5-Dimethyl benz- Aldehyde	% rpd
50ng/ml TO-11A S2	186226	166401	109996	216426	145487	84766	5.84%
50ng/ml TO-11A S2	175760	171974	93386	227448	145697	96663	7.37%
50ng/ml TO-11A S2	177082	169317	113786	212270	155285	88645	1.53%
100ng/ml TO-11A S	323665	320426	207105	397976	282439	170783	3.03%
100ng/ml TO-11A S	313564	335005	188768	416110	285615	182724	3.75%
100ng/ml TO-11A S	340775	327561	198353	403186	288074	174836	0.73%
500ng/ml TO-11A S	1631123	1598180	1023918	2205841	1425262	964881	0.39%
500ng/ml TO-11A S	1614213	1593172	1018615	2181093	1423115	956005	0.53%
500ng/ml TO-11A S	1639714	1572954	1012283	2206747	1418487	962409	0.14%
1500ng/ml TO-11A	5115478	5104937	3347391	7133126	4465907	3088612	0.37%
1500ng/ml TO-11A	5182178	5176264	3396097	7179077	4448983	3056583	1.41%
1500ng/ml TO-11A	5170579	5170597	3376687	7206393	4462344	3155386	1.78%
5000ng/ml TO-11A	17854488	17905508	11990582	25039167	15466841	11107870	0.29%
5000ng/ml TO-11A	17875029	17921465	11986554	25032033	15380456	11113181	0.24%
5000ng/ml TO-11A	17932725	17988106	12035186	25134428	15437631	11198210	0.52%
10000ng/ml TO-11A	35277028	35412579	23892692	49431359	30345892	21989696	0.21%
10000ng/ml TO-11A	35194712	35338059	23813504	49315533	30246038	21823086	0.55%
10000ng/ml TO-11A	35288997	35418570	23869930	49446486	30343150	22018475	0.34%

AVERAGE RESPONSE FACTOR

	Form- Aldehyde	Acet- Aldehyde	Propion- Aldehyde	Croton- Aldehyde	Butyr- Aldehyde	Benz- Aldehyde
50ng/ml TO-11A S:	451630	326833	268906	198706	203541	139669
100ng/ml TO-11A:	859488	623231	499554	379527	382791	250939
500ng/ml TO-11A:	4257495	3064658	2506589	1954289	1909379	1284462
1500ng/ml TO-11A	13529541	9889344	7792222	6148549	6120291	4117929
5000ng/ml TO-11A	46512015	33993503	26687243	21596895	21451545	14468790
10000ng/ml TO-11	91480117	67148926	52678339	42610569	42286242	28595354

AVERAGE RESPONSE FACTOR

	Isovaler- Aldehyde	Valer- Aldehyde	o-Tolu- Aldehyde	m,p-Tolu- Aldehyde	Hex- Aldehyde	2,5-Dimethyl benz- Aldehyde
50ng/ml TO-11A S:	179689	162231	105723	218715	148823	90025
100ng/ml TO-11A:	326001	327664	198075	405757	285376	176114
500ng/ml TO-11A:	1628350	1588102	1018272	2197894	1422288	961098
1500ng/ml TO-11A	5156078	5150599	3373392	7172865	4459078	3100194
5000ng/ml TO-11A	17887414	17938360	12004107	25068543	15428309	11139754
10000ng/ml TO-11	35253579	35389736	23858709	49397793	30311693	21943752

COMPOUND	50	100	500	1500	5000	10000	AVERAGE	SD	%RSD
Formaldehyde	9.033E+03	8.595E+03	8.515E+03	9.020E+03	9.302E+03	9.148E+03	8.935E+03	3.13E+02	3.50%
Acetaldehyde	6.537E+03	6.232E+03	6.129E+03	6.593E+03	6.799E+03	6.715E+03	6.501E+03	2.66E+02	4.10%
Propionaldehyde	5.378E+03	4.996E+03	5.013E+03	5.195E+03	5.337E+03	5.268E+03	5.198E+03	1.62E+02	3.13%
Crotonaldehyde	3.974E+03	3.795E+03	3.909E+03	4.099E+03	4.319E+03	4.261E+03	4.060E+03	2.05E+02	5.04%
Butyraldehyde	4.071E+03	3.828E+03	3.819E+03	4.080E+03	4.290E+03	4.229E+03	4.053E+03	1.97E+02	4.86%
Benzaldehyde	2.793E+03	2.509E+03	2.569E+03	2.745E+03	2.894E+03	2.860E+03	2.728E+03	1.56E+02	5.74%
Isovaleraldehyde	3.594E+03	3.260E+03	3.257E+03	3.437E+03	3.577E+03	3.525E+03	3.442E+03	1.52E+02	4.42%
Valeraldehyde	3.385E+03	3.277E+03	3.176E+03	3.434E+03	3.588E+03	3.539E+03	3.400E+03	1.56E+02	4.58%
o-Tolualdehyde	2.114E+03	1.981E+03	2.037E+03	2.249E+03	2.401E+03	2.386E+03	2.195E+03	1.78E+02	8.13%
m,p-Tolualdehyde	2.187E+03	2.029E+03	2.198E+03	2.391E+03	2.507E+03	2.470E+03	2.297E+03	1.88E+02	8.18%
Hexaldehyde	2.976E+03	2.854E+03	2.845E+03	2.973E+03	3.086E+03	3.031E+03	2.961E+03	9.58E+01	3.24%
2,5-Dimethylbenzaldehyde	1.800E+03	1.761E+03	1.922E+03	2.067E+03	2.228E+03	2.194E+03	1.995E+03	1.98E+02	9.95%

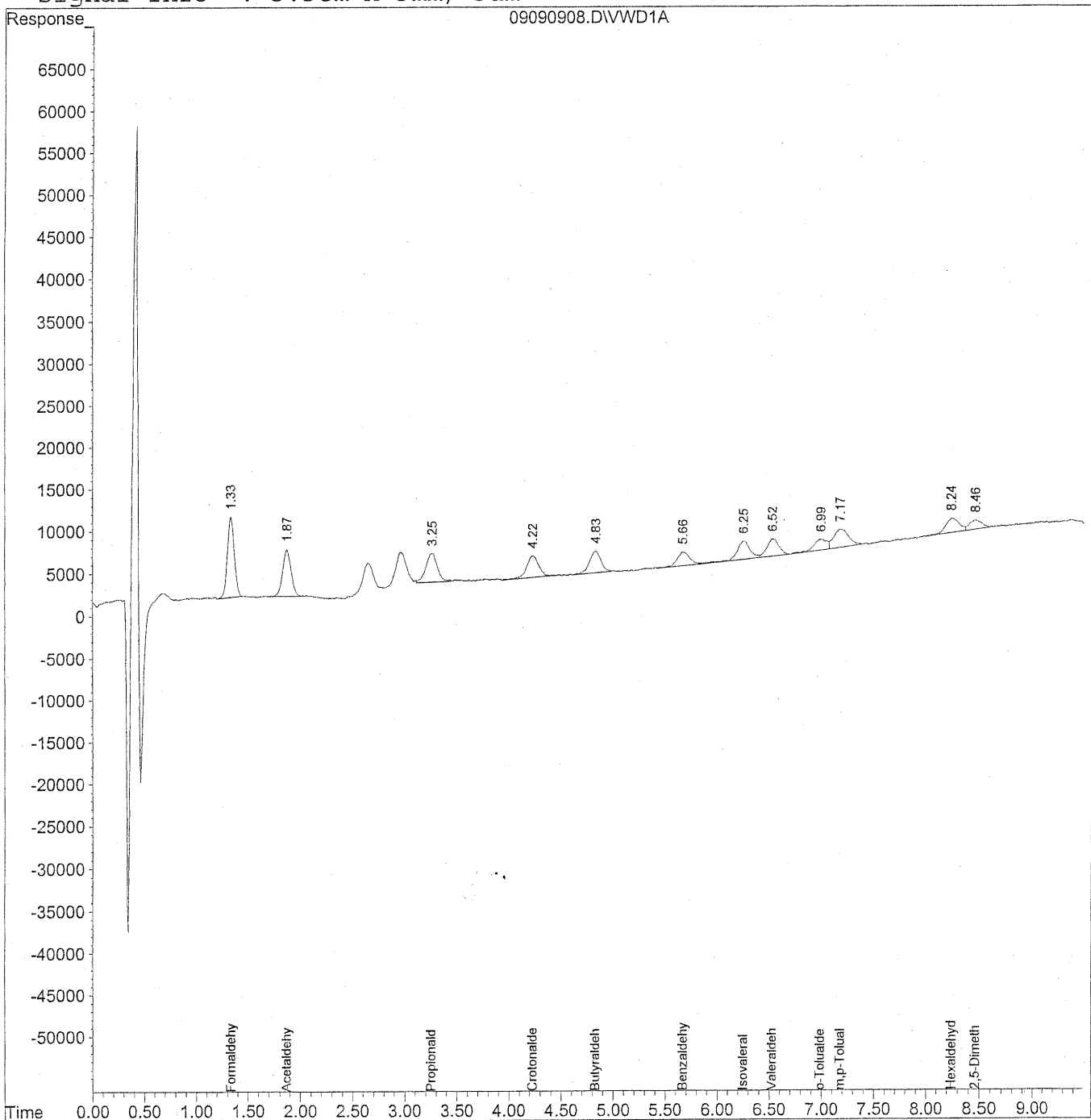
TO-11A CALIBRATION STANDARDS LIST							
50ng/ml	TO-11A	S21-09080905					
100ng/ml	TO-11A	S21-09080904					
500ng/ml	TO-11A	S21-09080903					
1500ng/ml	TO-11A	S21-09090903					
5000ng/ml	TO-11A	S21-09080902					
10000ng/ml	TO-11A	S21-09080901					

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090908.D Vial: 9
Acq On : 09-Sep-2009, 15:20 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090908.D Vial: 9
 Acq On : 09-Sep-2009, 15:20 Operator: MD
 Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

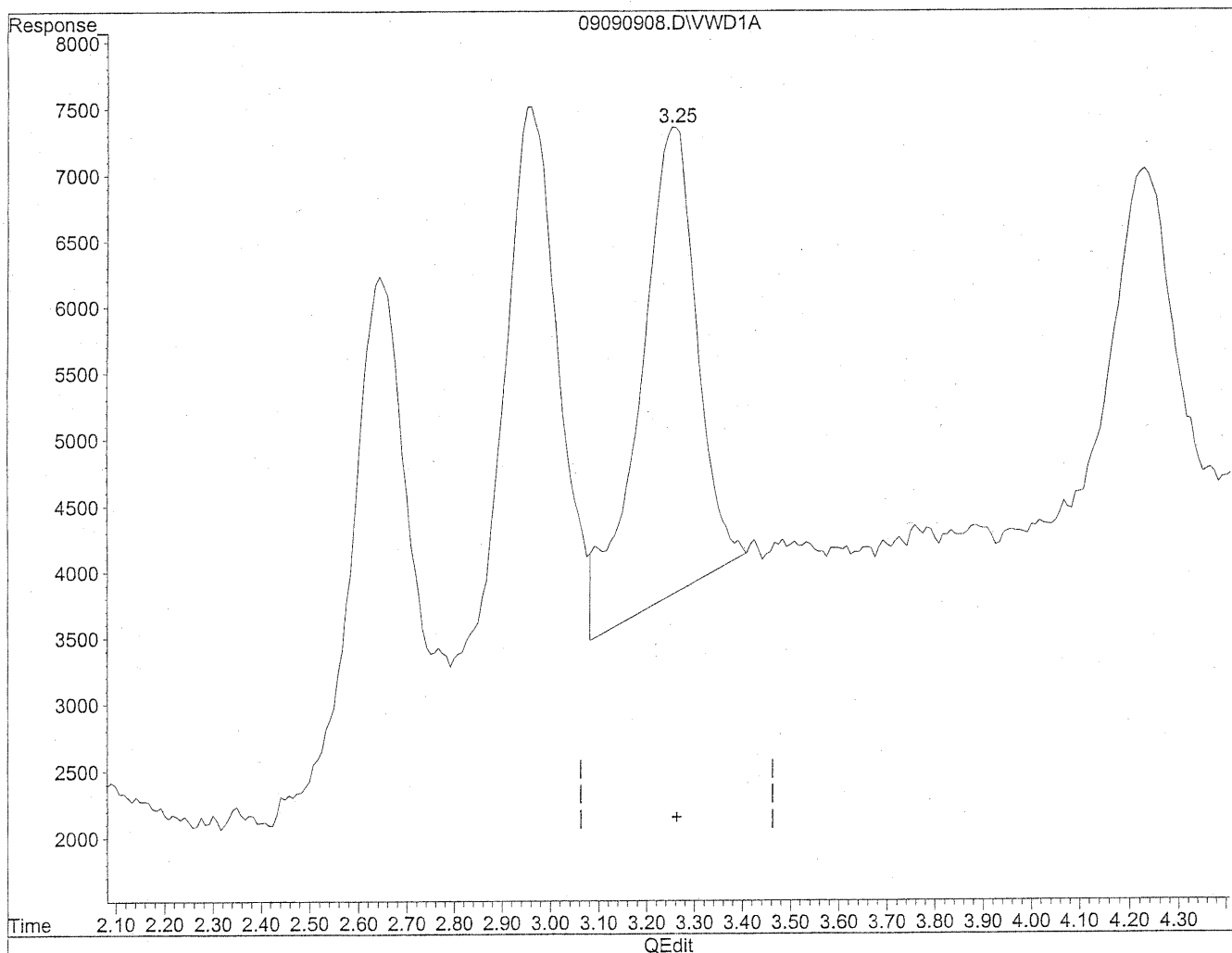
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.33	443088	48.300 ng/ml
2) Acetaldehyde	1.87	311721	47.262 ng/ml
3) Propionaldehyde	3.25	257497	49.595 ng/mlm
4) Crotonaldehyde	4.23	205520	50.553 ng/ml
5) Butyraldehyde	4.83	199284	48.165 ng/ml
6) Benzaldehyde	5.67	136041	50.640 ng/ml
7) Isovaleraldehyde	6.25	186226	53.155 ng/ml
8) Valeraldehyde	6.53	166401	50.588 ng/ml
9) o-Tolualdehyde	6.99	109996	48.007 ng/ml
10) m,p-Tolualdehyde	7.18	216426	93.961 ng/ml
11) Hexaldehyde	8.24	145487	51.040 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.46	84766	42.867 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090908.D Vial: 9
Acq On : 09-Sep-2009, 15:20 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

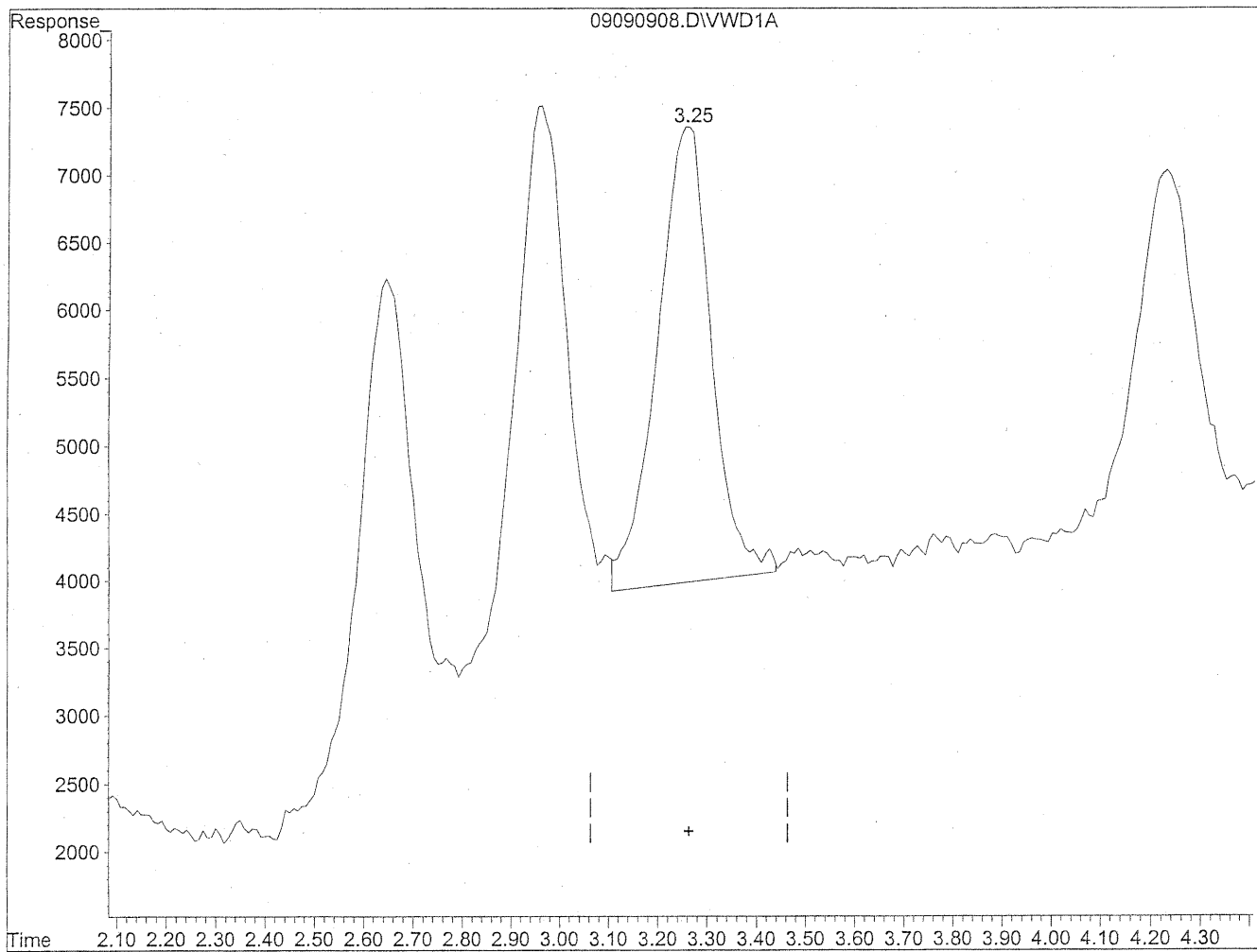


(3) Propionaldehyde
3.26min 56.431ng/ml
response 292995

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090908.D Vial: 9
Acq On : 09-Sep-2009, 15:20 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:45 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(3) Propionaldehyde
3.25min 49.595ng/ml m
response 257497

(MD)
9/10/09
BZ

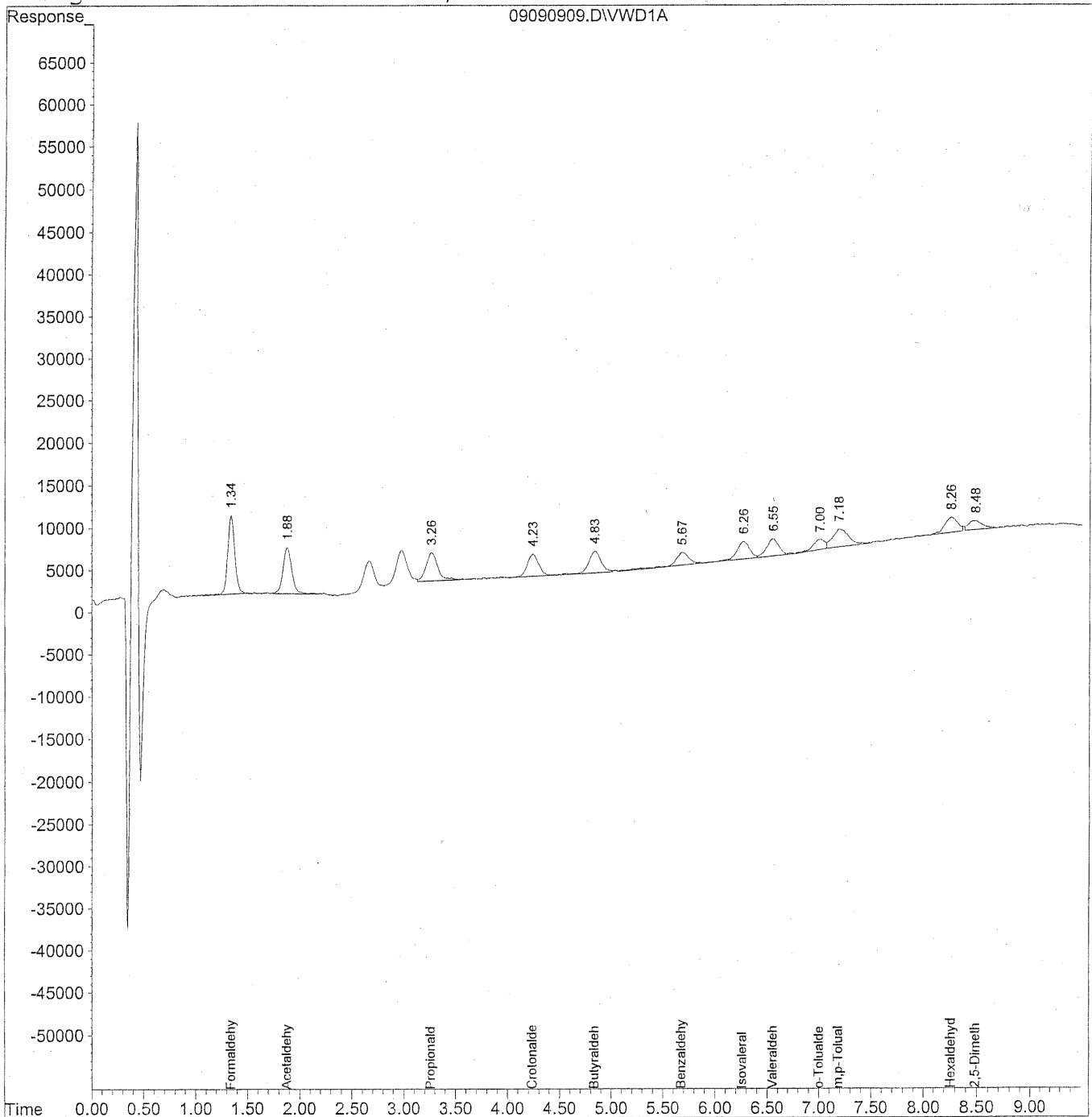
KK 9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



108

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
 Acq On : 09-Sep-2009, 15:31 Operator: MD
 Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

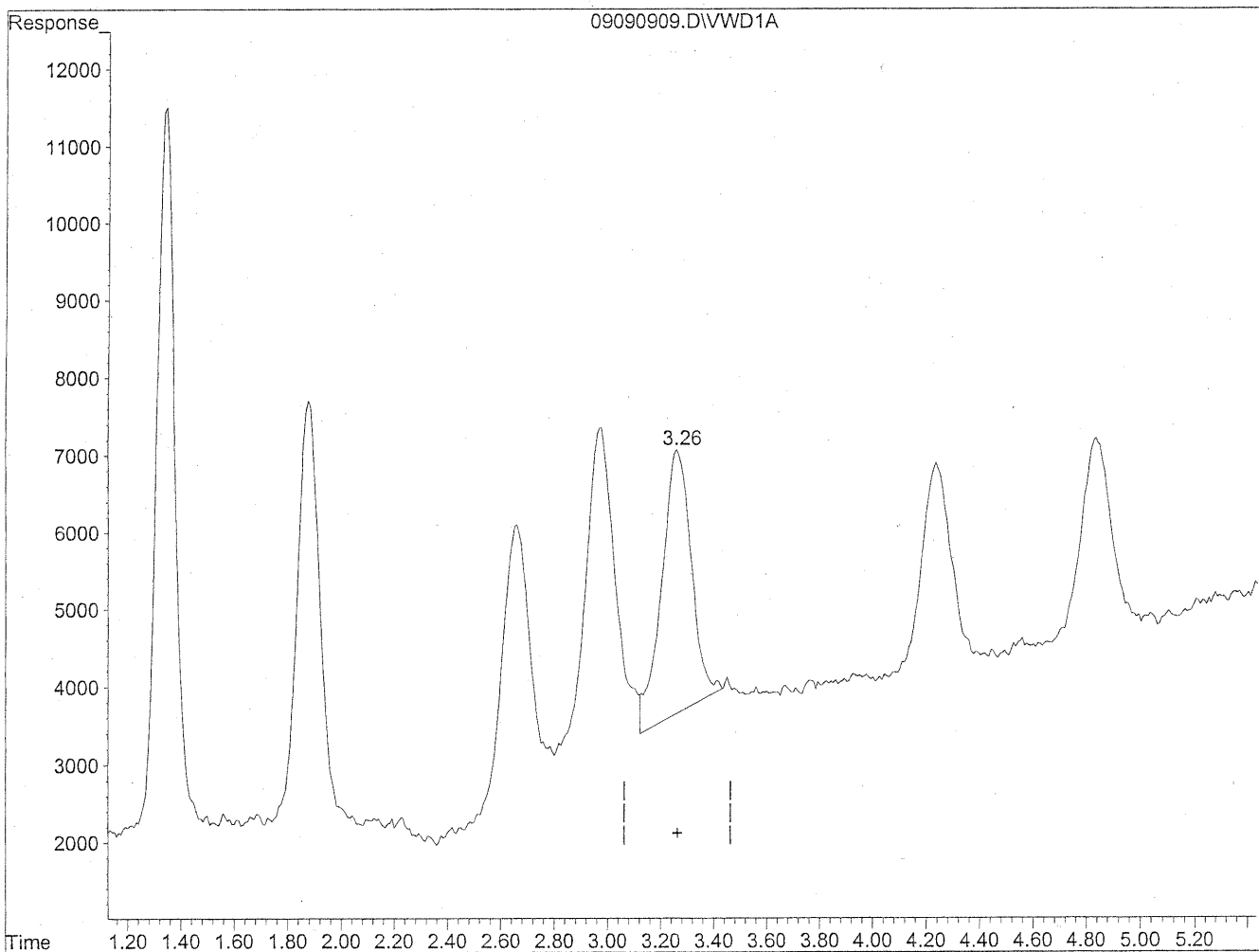
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.34	447251	48.810 ng/ml
2) Acetaldehyde	1.88	327663	49.697 ng/ml
3) Propionaldehyde	3.26	268082	51.767 ng/mlm
4) Crotonaldehyde	4.24	200887	48.943 ng/ml
5) Butyraldehyde	4.84	217482	52.896 ng/ml
6) Benzaldehyde	5.68	140658	52.629 ng/ml
7) Isovaleraldehyde	6.27	175760	49.313 ng/ml
8) Valeraldehyde	6.55	171974	52.000 ng/ml
9) o-Tolualdehyde	7.01	93386	40.816 ng/ml
10) m,p-Tolualdehyde	7.18	227448	98.156 ng/mlm
11) Hexaldehyde	8.26	145697	49.945 ng/mlm
12) 2,5-Dimethylbenzaldehyde	8.48	96663	49.614 ng/mlm

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

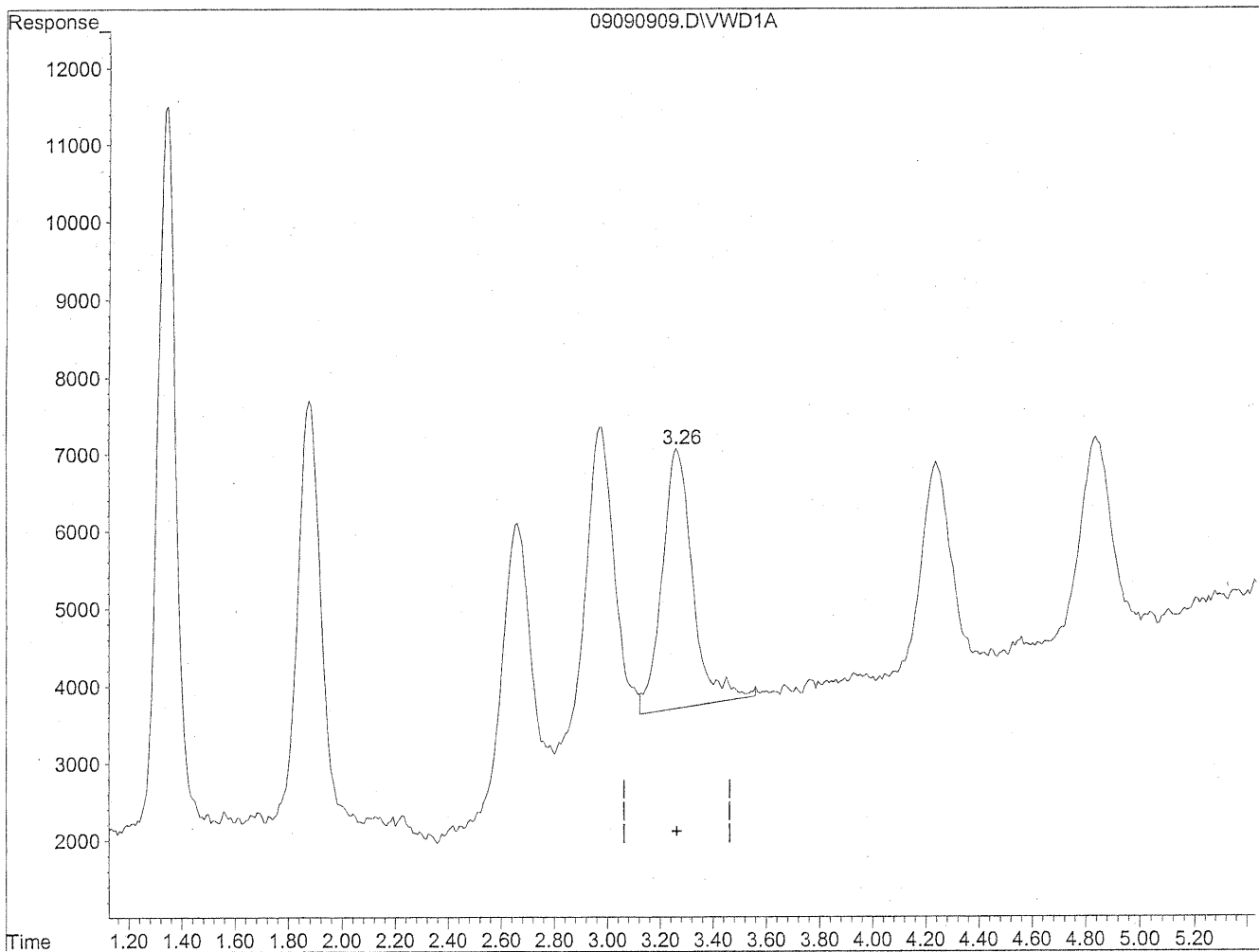


(3) Propionaldehyde
3.26min 51.274ng/ml
response 265532

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(3) Propionaldehyde
3.26min 51.767ng/ml m
response 268082

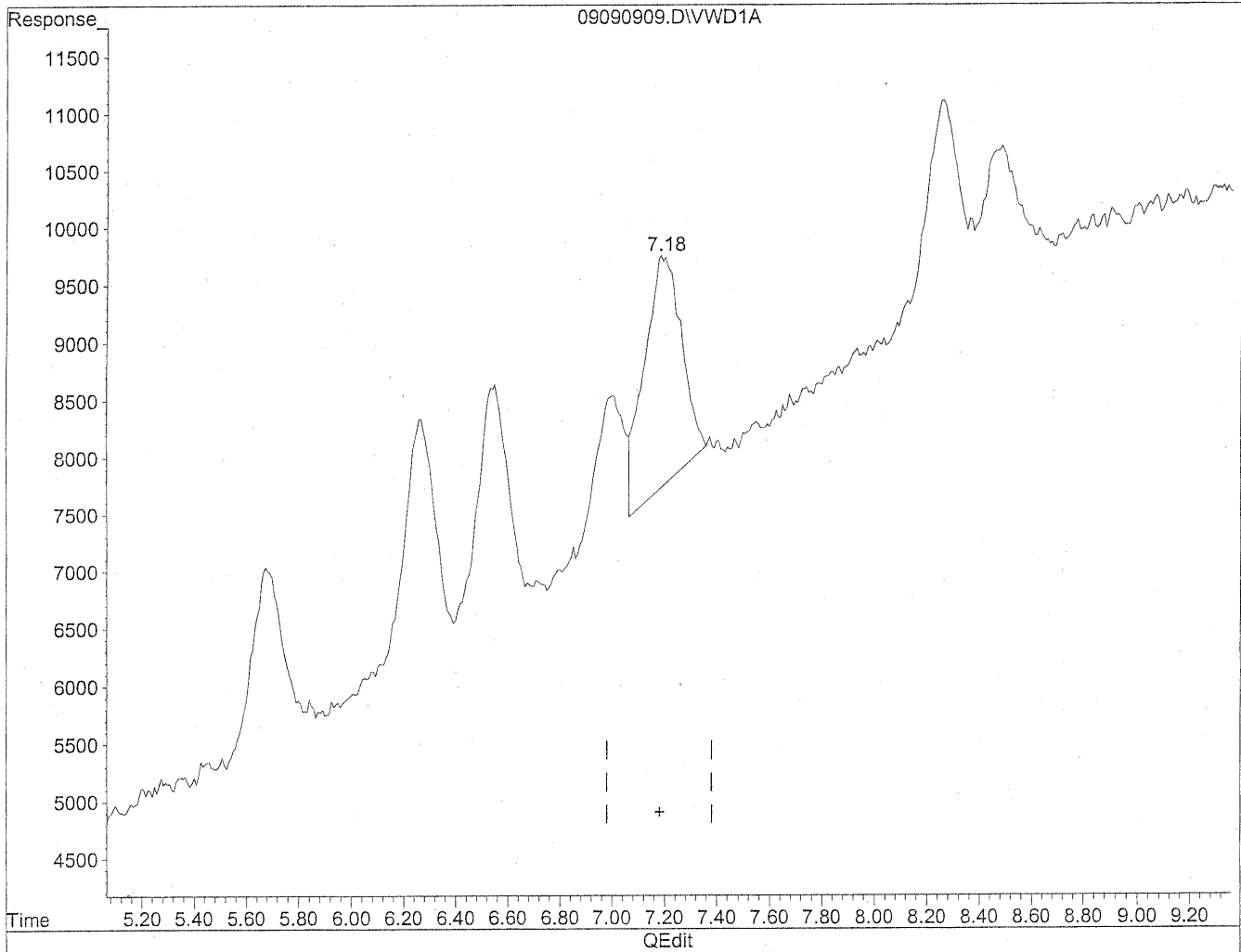
MD
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Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

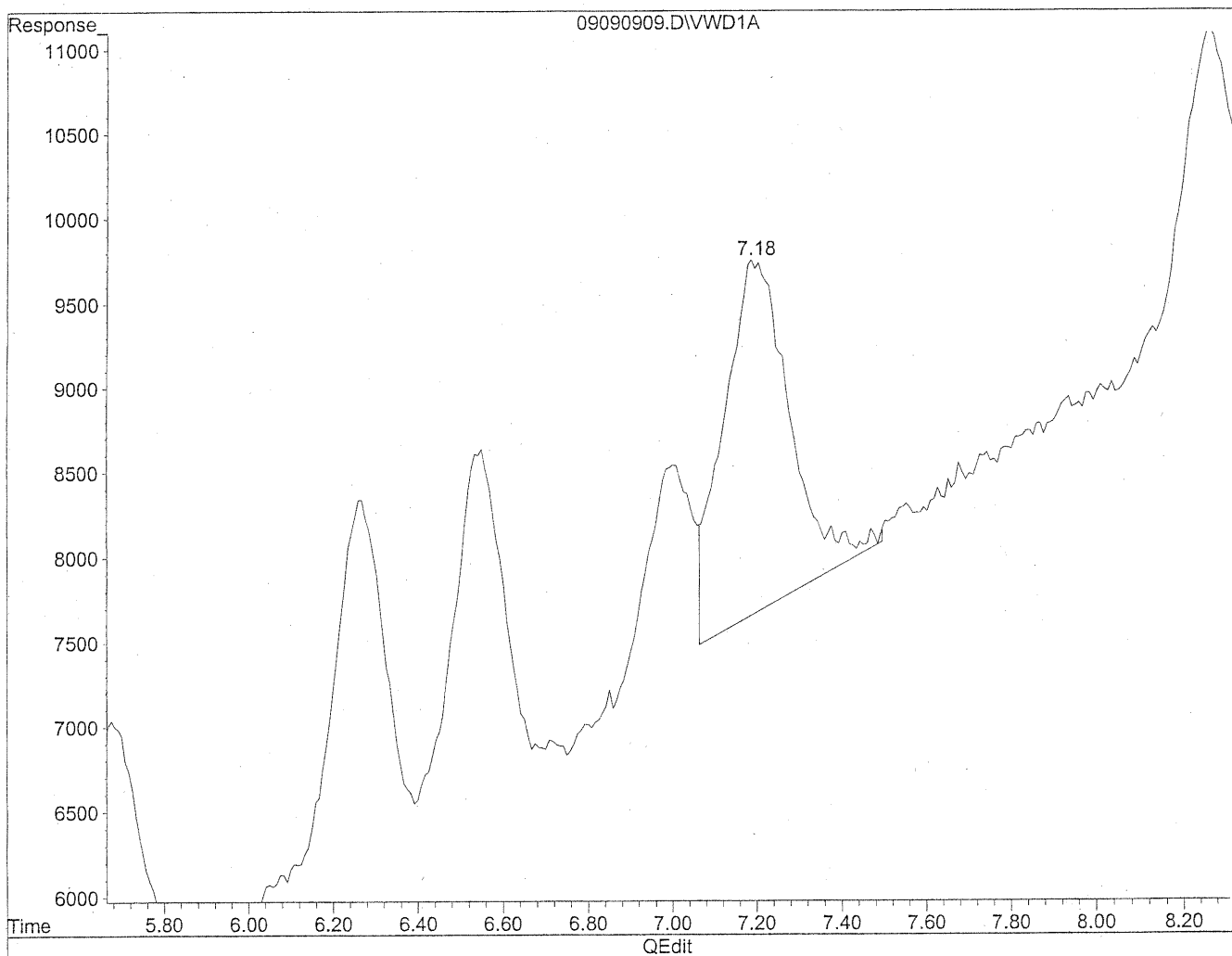


(10) m,p-Tolualdehyde
7.19min 86.656ng/ml
response 200799

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(10) m,p-Tolualdehyde
7.18min 98.156ng/ml m
response 227448

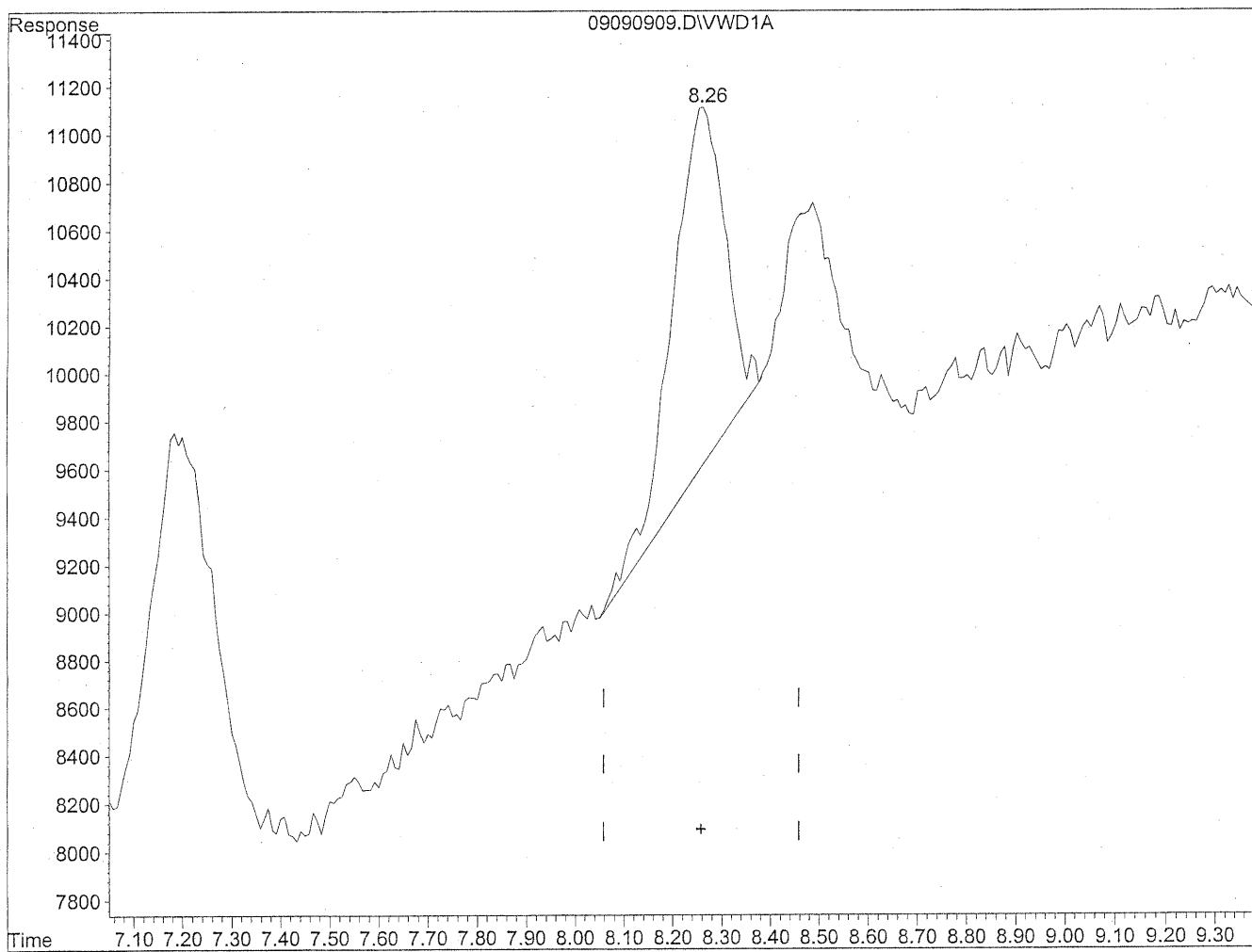
MD
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bc

kr 9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

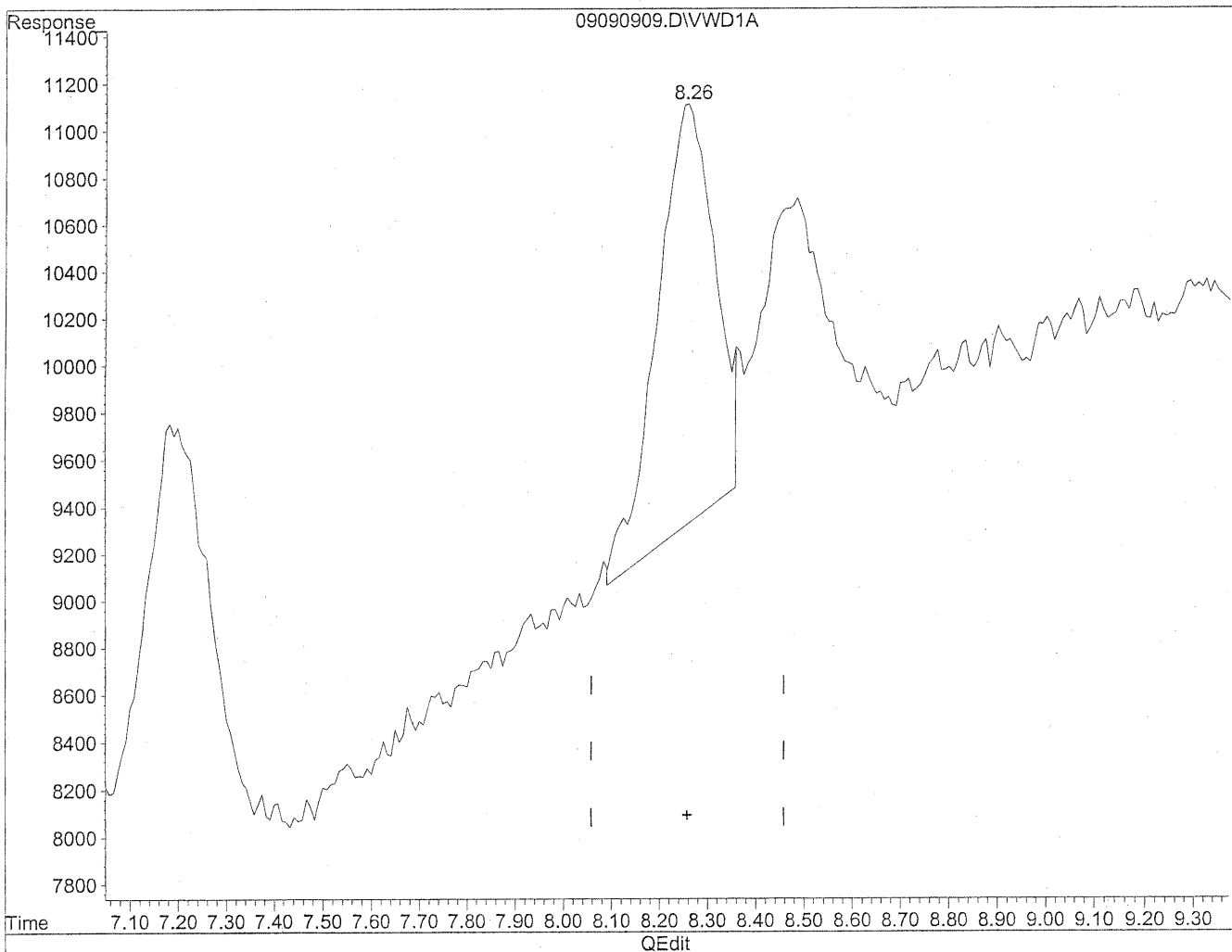


(11) Hexaldehyde
8.26min 38.176ng/ml
response 111365

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(11) Hexaldehyde
8.26min 49.945ng/ml m
response 145697

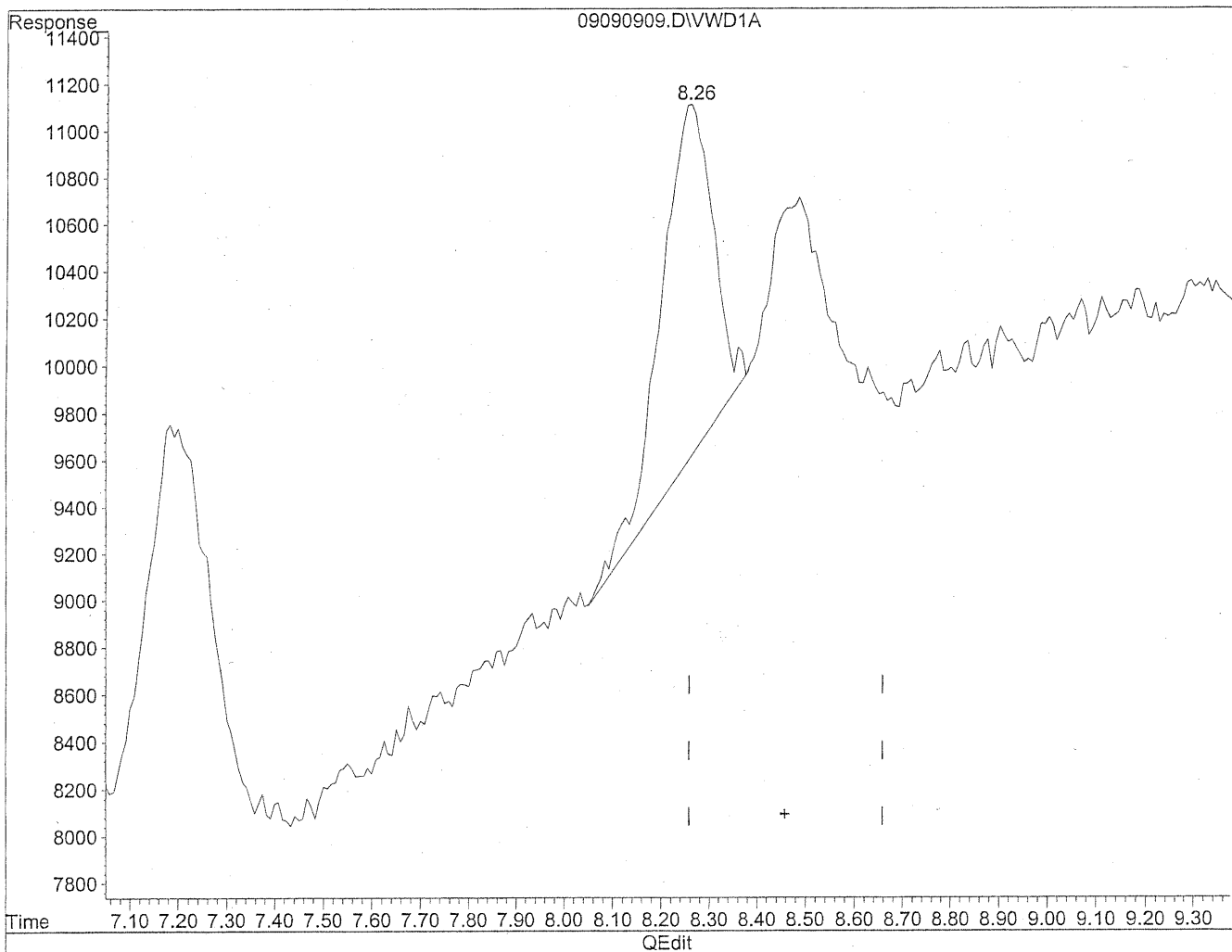
(MD)
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Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:46 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(12) 2,5-Dimethylbenzaldehyde

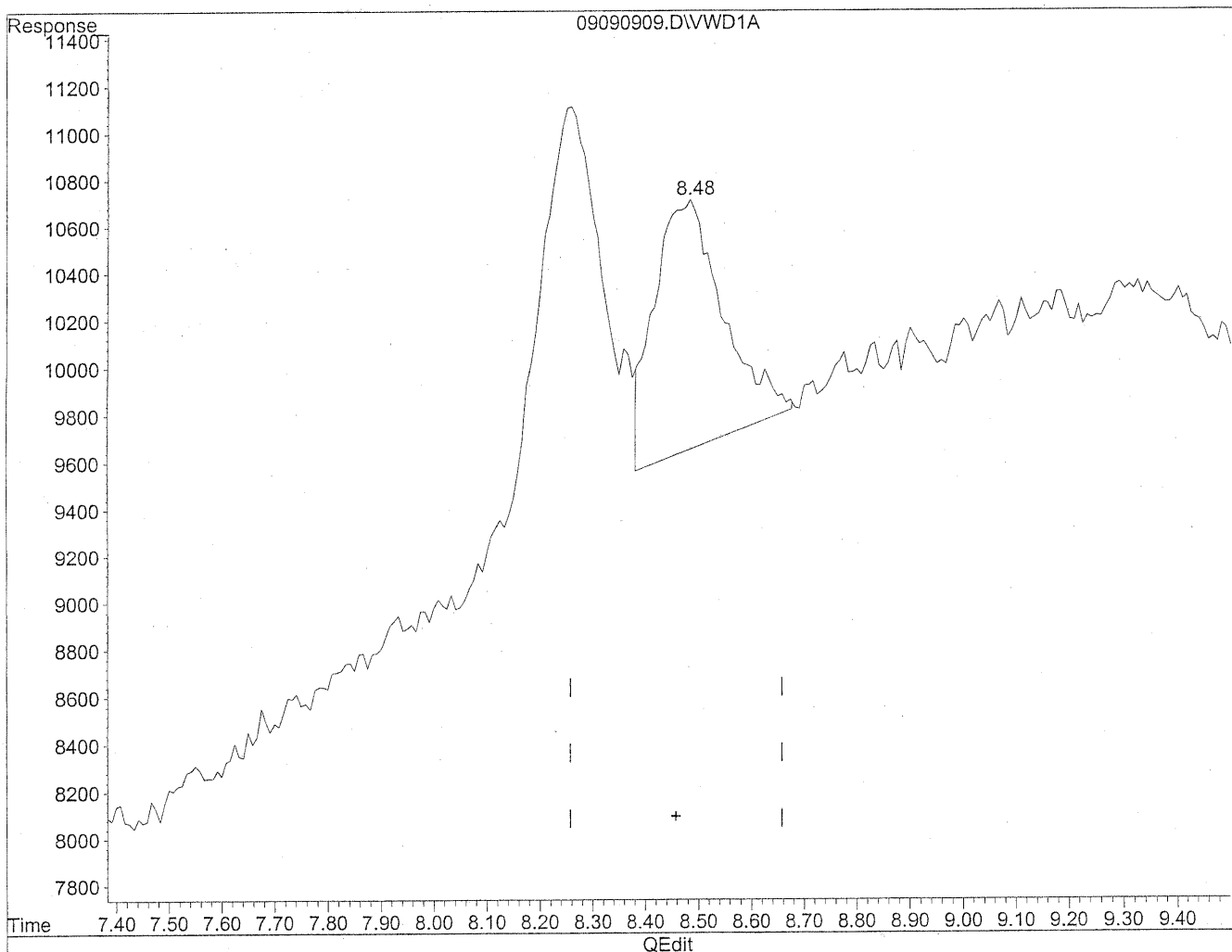
8.26min 57.160ng/ml

response 111365

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090909.D Vial: 9
Acq On : 09-Sep-2009, 15:31 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Thu Sep 11 13:54:46 2008
Response via : Multiple Level Calibration



(12) 2,5-Dimethylbenzaldehyde
8.48min 49.614ng/ml m
response 96663

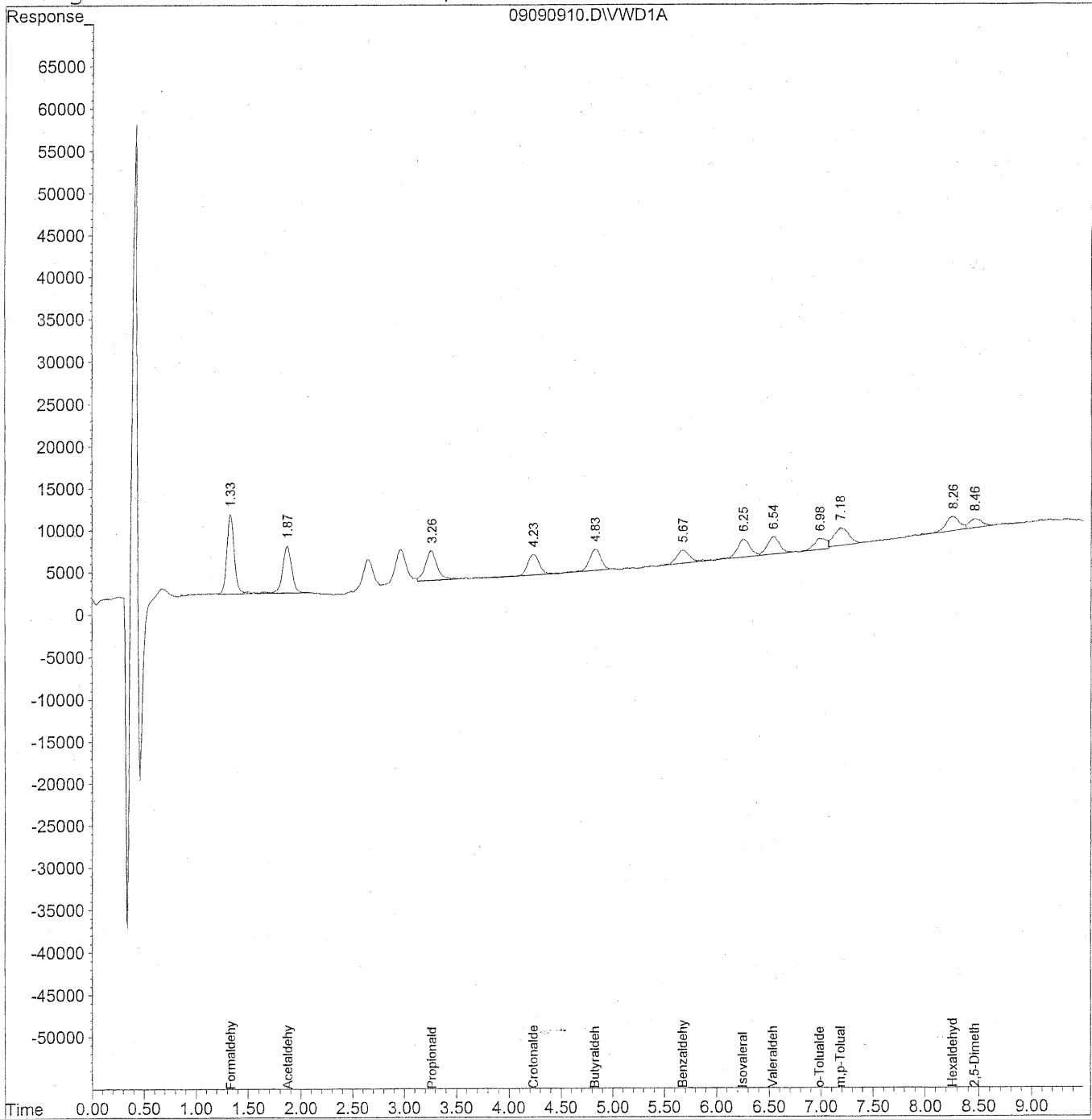
(MD)
9/10/09
JE mp
KCS 9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:49 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
 Acq On : 09-Sep-2009, 15:43 Operator: MD
 Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:49 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

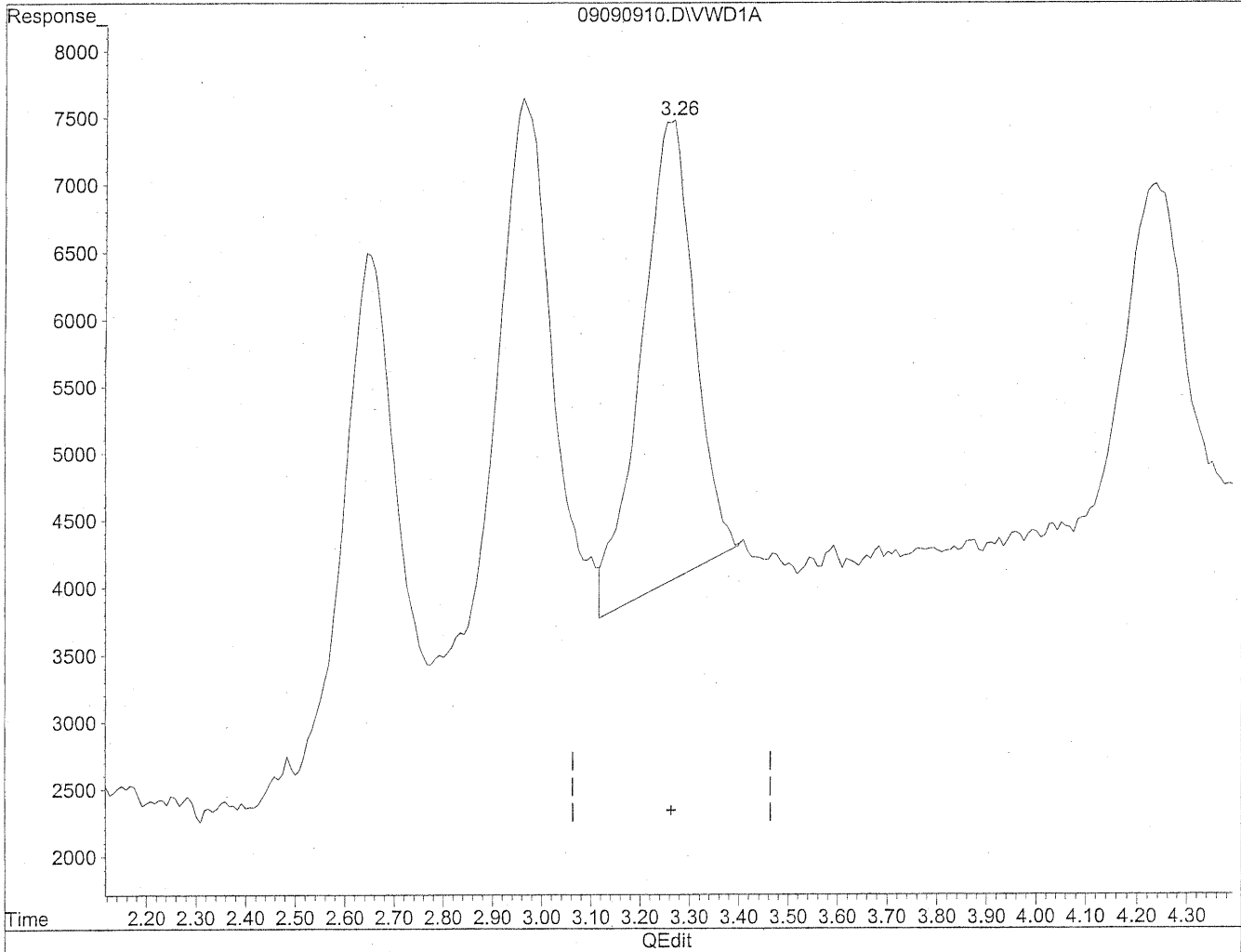
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.33	464552	50.660 ng/ml
2) Acetaldehyde	1.87	341116	51.530 ng/ml
3) Propionaldehyde	3.26	281140	54.104 ng/mlm
4) Crotonaldehyde	4.23	189710	46.307 ng/ml
5) Butyraldehyde	4.83	193856	46.804 ng/ml
6) Benzaldehyde	5.67	142307	53.093 ng/mlm
7) Isovaleraldehyde	6.26	177082	49.928 ng/ml
8) Valeraldehyde	6.54	169317	51.053 ng/ml
9) o-Tolualdehyde	6.98	113786	50.342 ng/mlm
10) m,p-Tolualdehyde	7.19	212270	91.245 ng/ml
11) Hexaldehyde	8.26	155285	53.226 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.46	88645	45.040 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

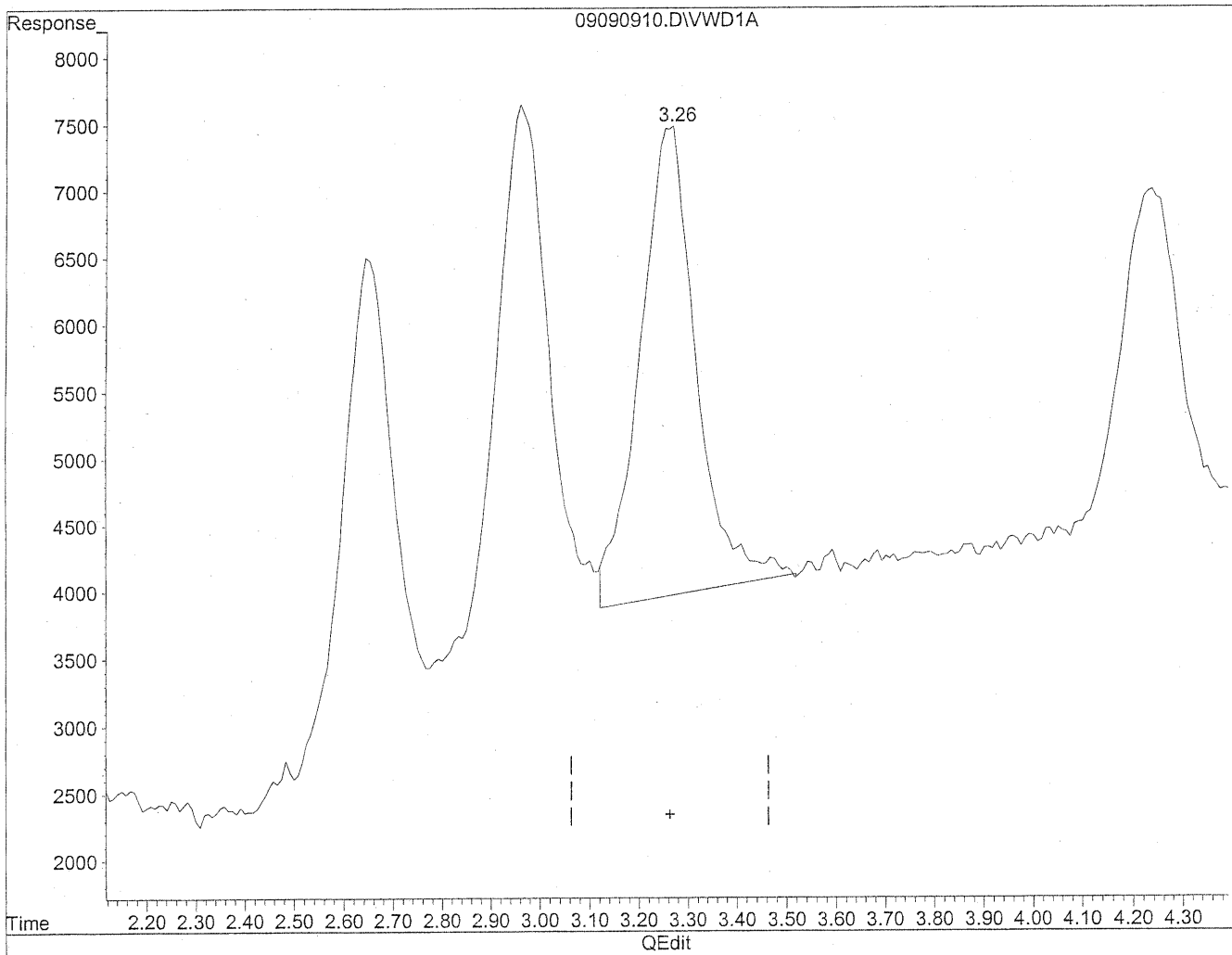


(3) Propionaldehyde
3.26min 49.837ng/ml
response 258964

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(3) Propionaldehyde
3.26min 54.104ng/ml m
response 281140

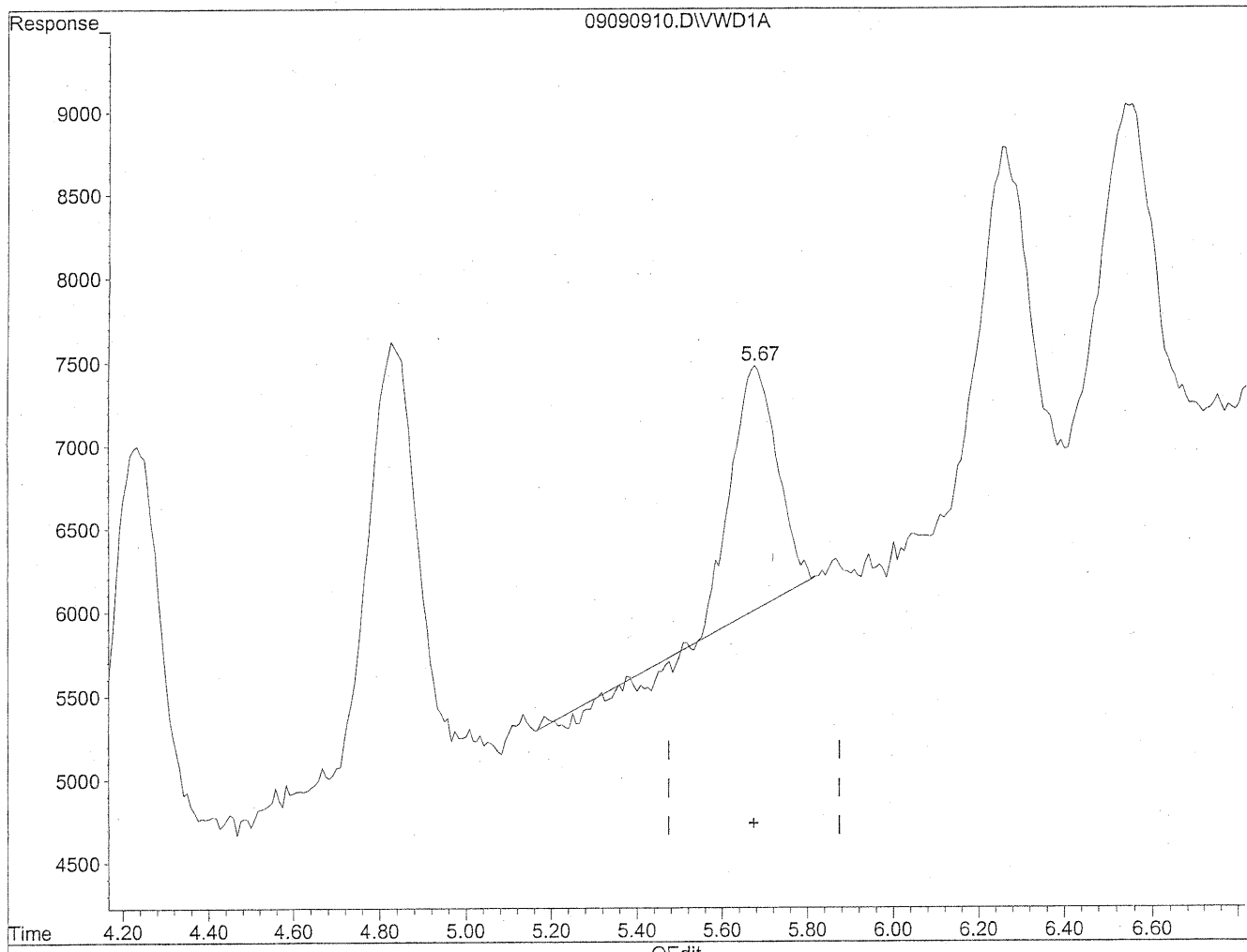
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Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

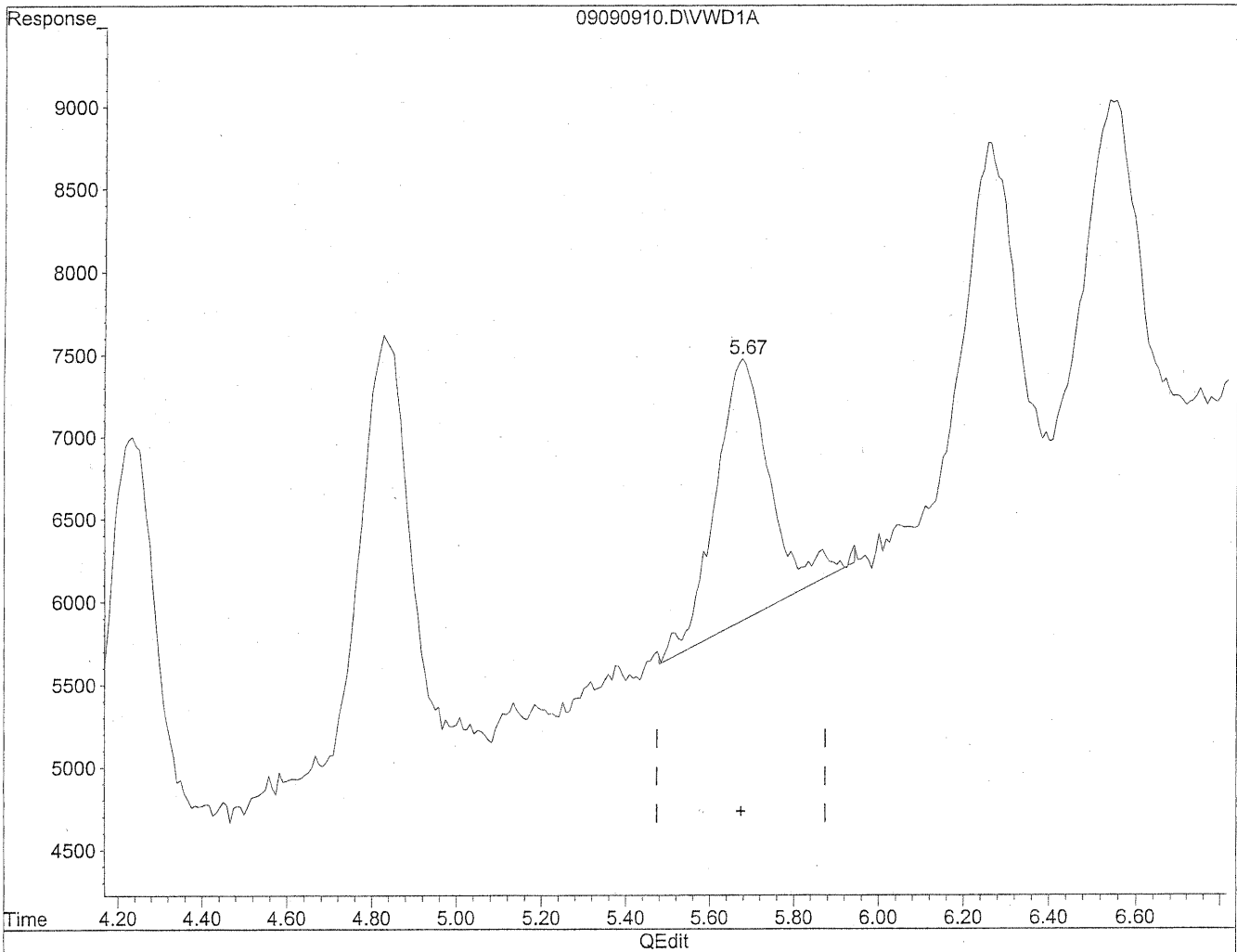


(6) Benzaldehyde
5.68min 37.890ng/ml
response 101557

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



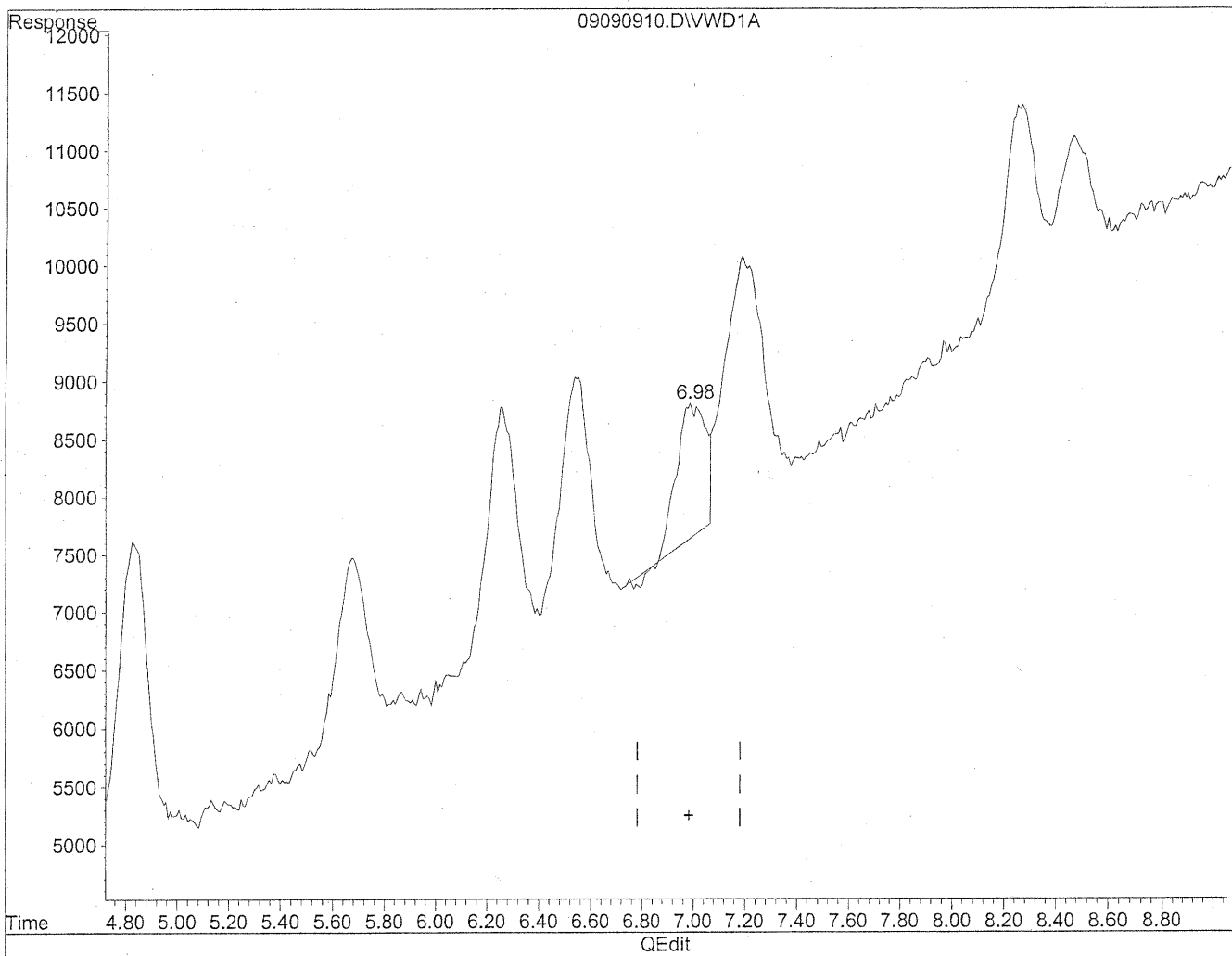
(6) Benzaldehyde
5.67min 53.093ng/ml m
response 142307

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Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

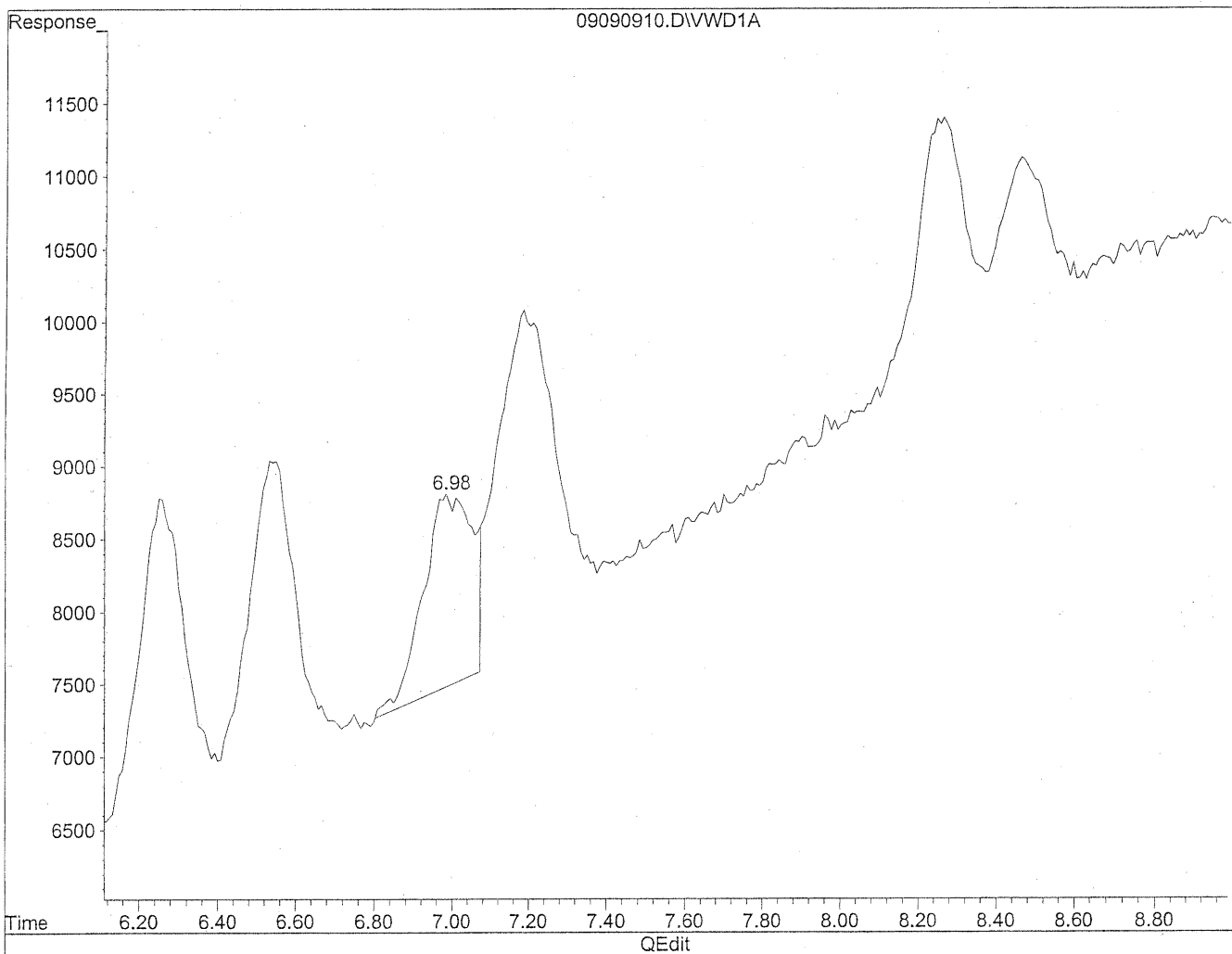


(9) o-Tolualdehyde
6.99min 38.054ng/ml
response 86012

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090910.D Vial: 9
Acq On : 09-Sep-2009, 15:43 Operator: MD
Sample : 50ng/ml TO-11A S21-09080905 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:48 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(9) o-Tolualdehyde
6.98min 50.342ng/ml m
response 113786

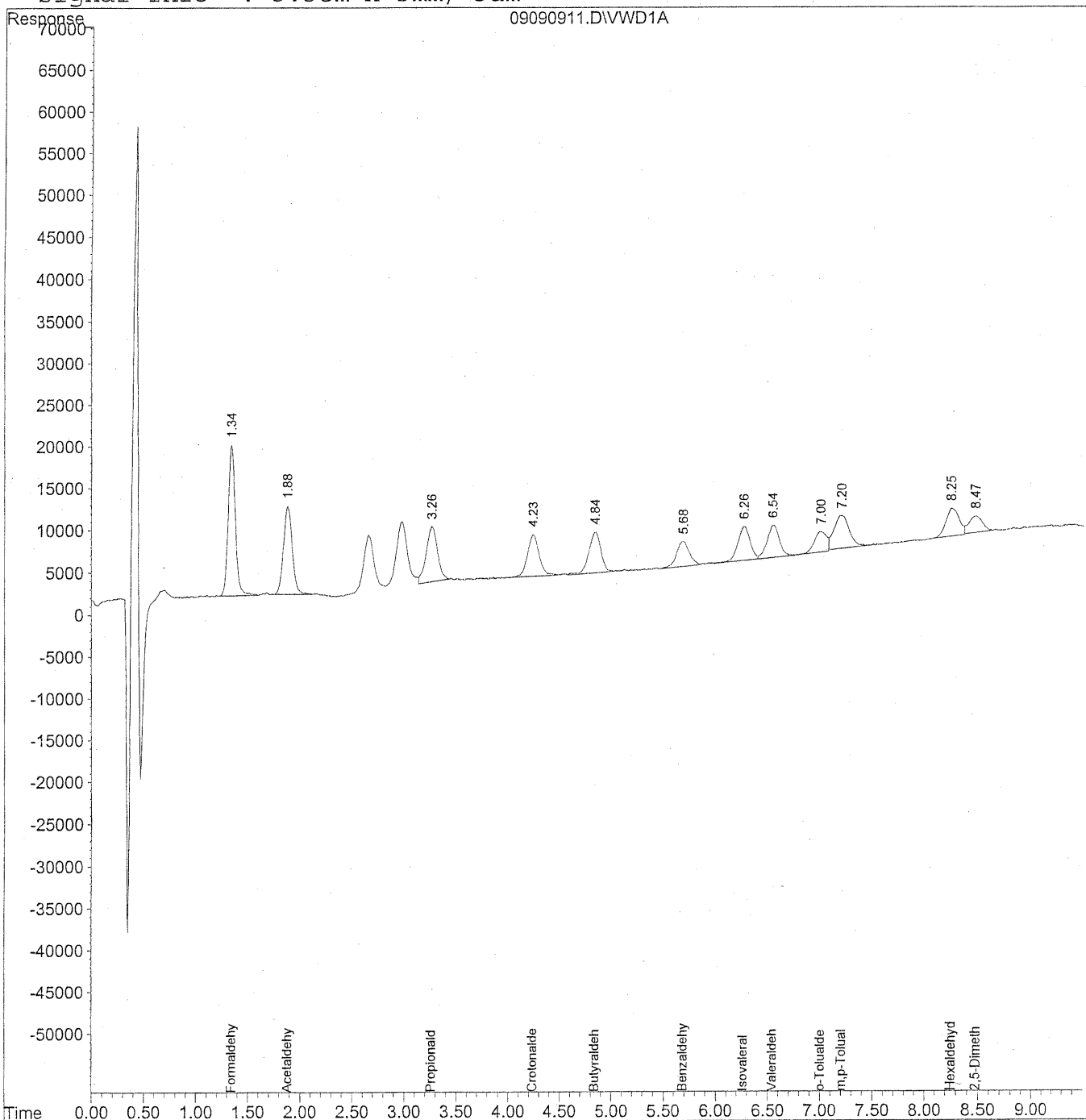
(Handwritten notes)
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K29/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 9:02 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
 Acq On : 09-Sep-2009, 15:54 Operator: MD
 Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 9:02 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

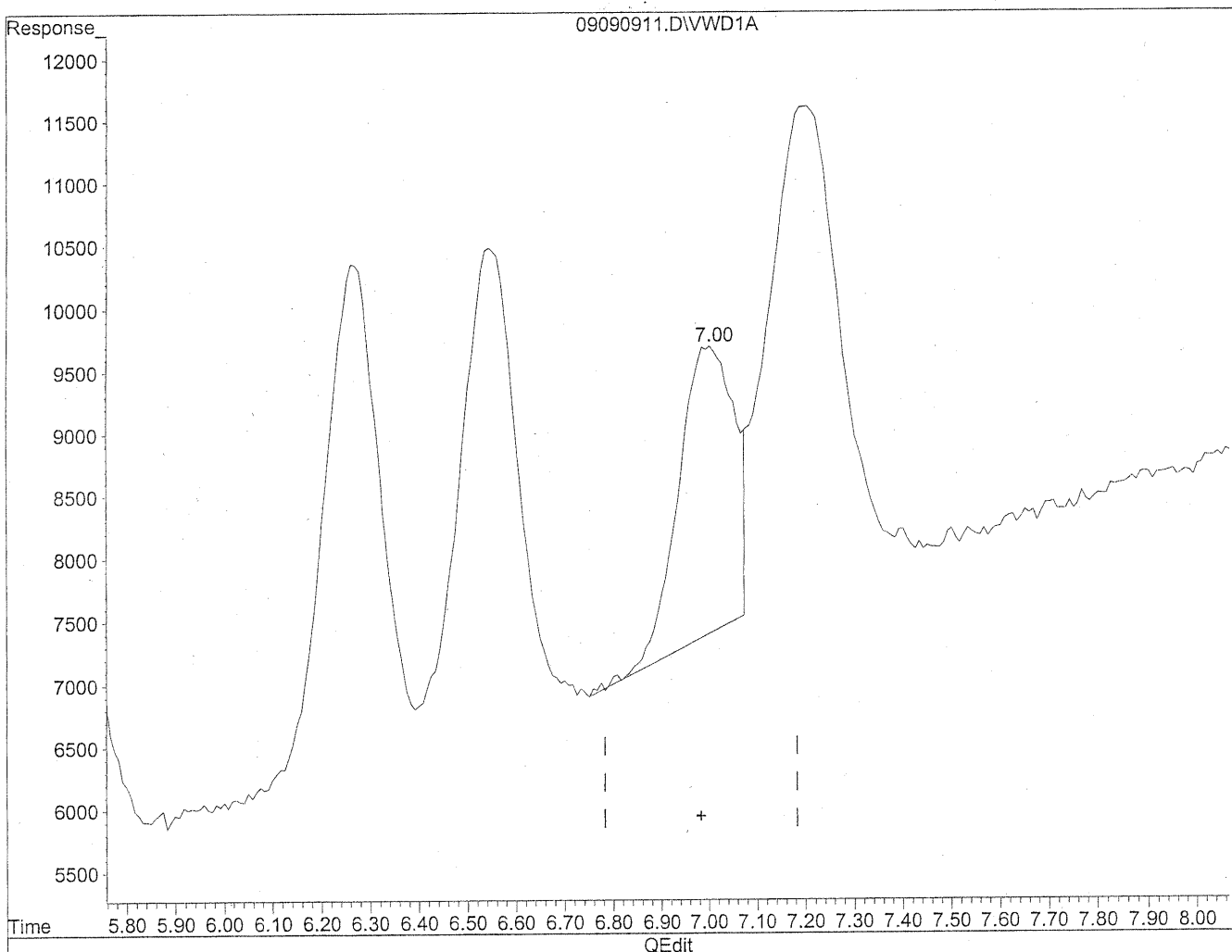
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.34	857936	93.340 ng/ml
2) Acetaldehyde	1.88	602866	90.745 ng/ml
3) Propionaldehyde	3.26	495705	95.023 ng/ml
4) Crotonaldehyde	4.24	389577	95.443 ng/ml
5) Butyraldehyde	4.84	390139	94.563 ng/ml
6) Benzaldehyde	5.68	249897	93.081 ng/ml
7) Isovaleraldehyde	6.27	323665	91.369 ng/ml
8) Valeraldehyde	6.55	320426	96.613 ng/ml
9) o-Tolualdehyde	7.00	207105	91.087 ng/mlm
10) m,p-Tolualdehyde	7.20	397976	171.466 ng/mlm
11) Hexaldehyde	8.25	282439	96.453 ng/mlm
12) 2,5-Dimethylbenzaldehyde	8.48	170783	86.876 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

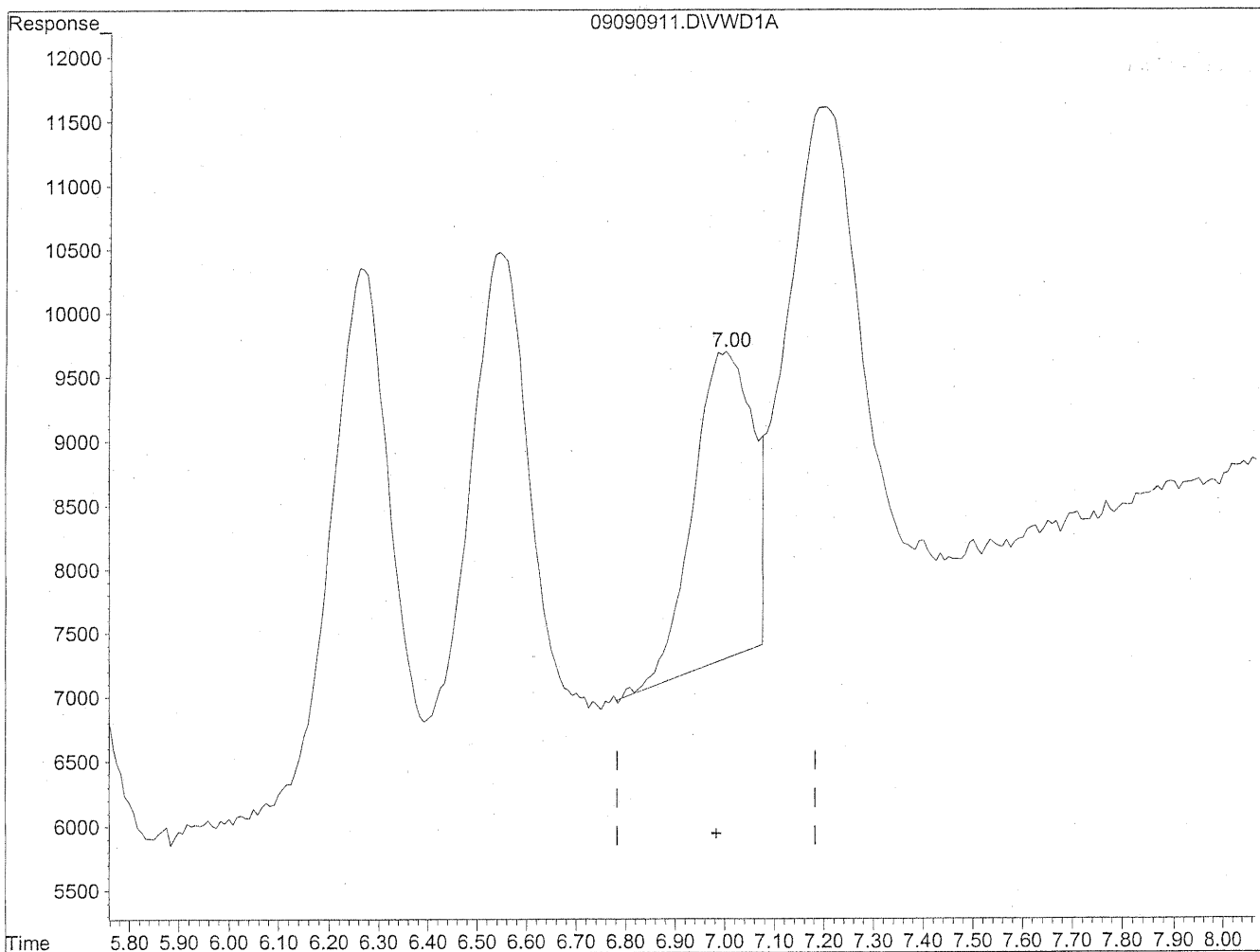


(9) o-Tolualdehyde
7.00min 80.006ng/ml
response 181910

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(9) o-Tolualdehyde
7.00min 91.087ng/ml m
response 207105

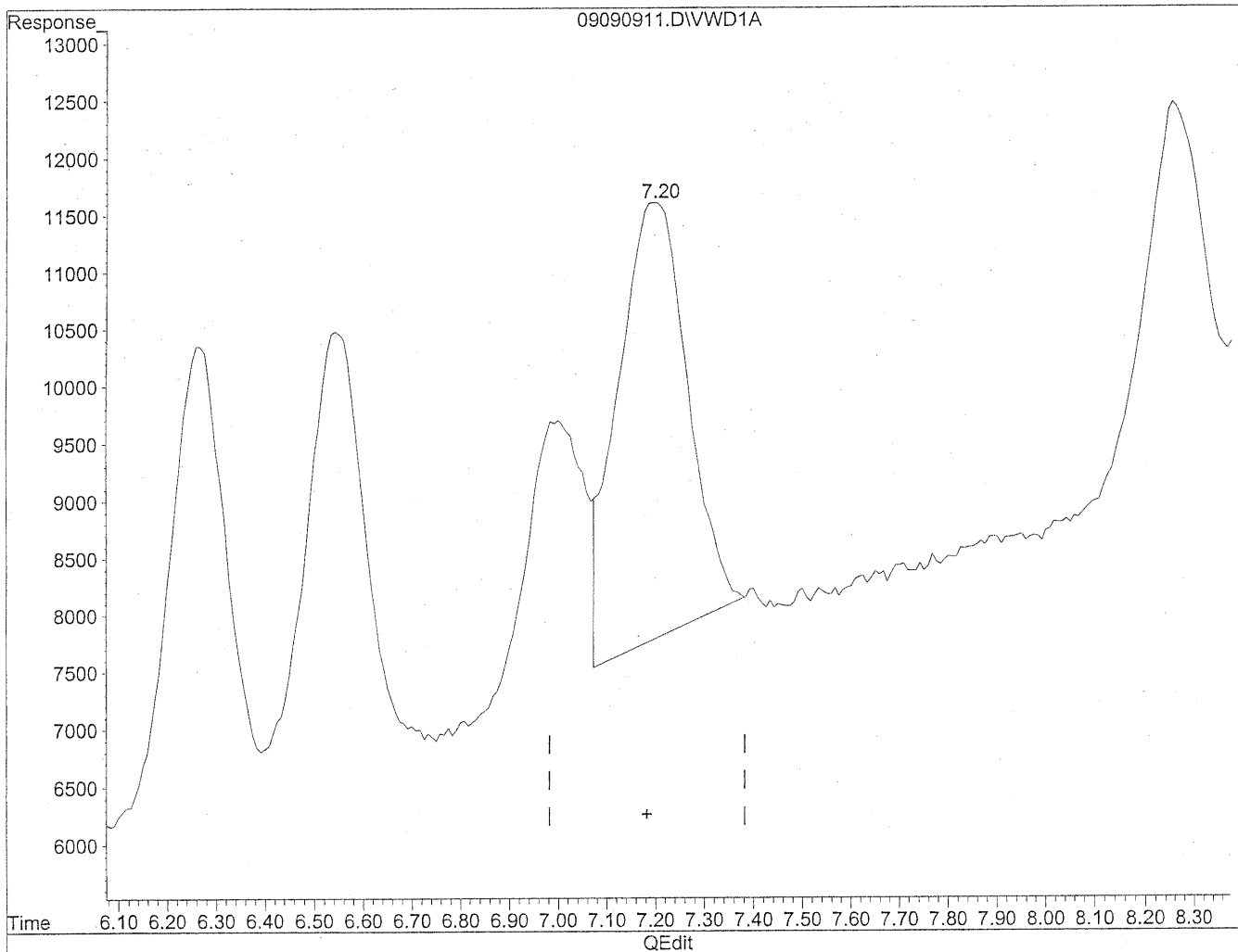
MD
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Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

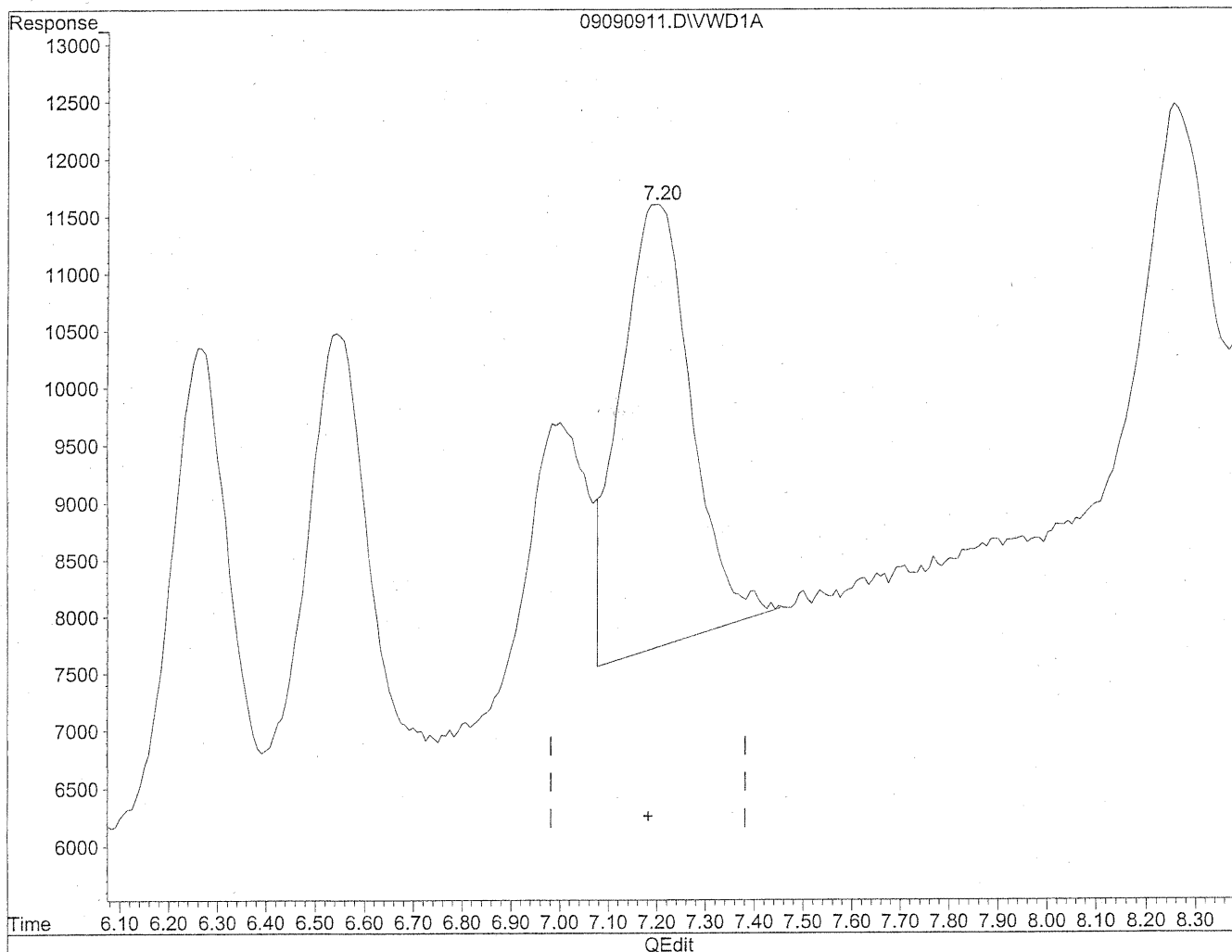


(10) m,p-Tolualdehyde
7.20min 165.581ng/ml
response 384316

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



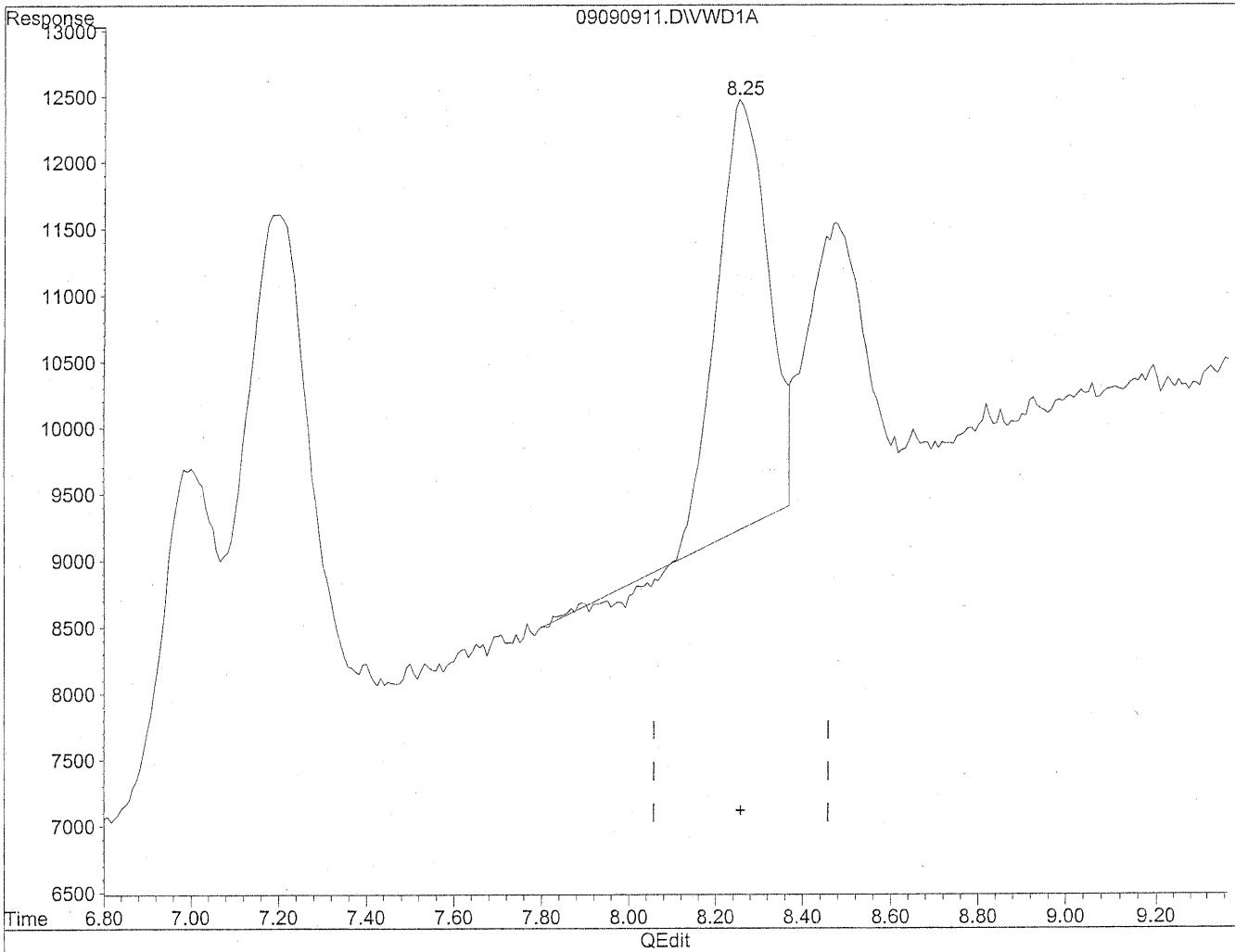
(10) m,p-Tolualdehyde
7.20min 171.466ng/ml m
response 397976

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Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

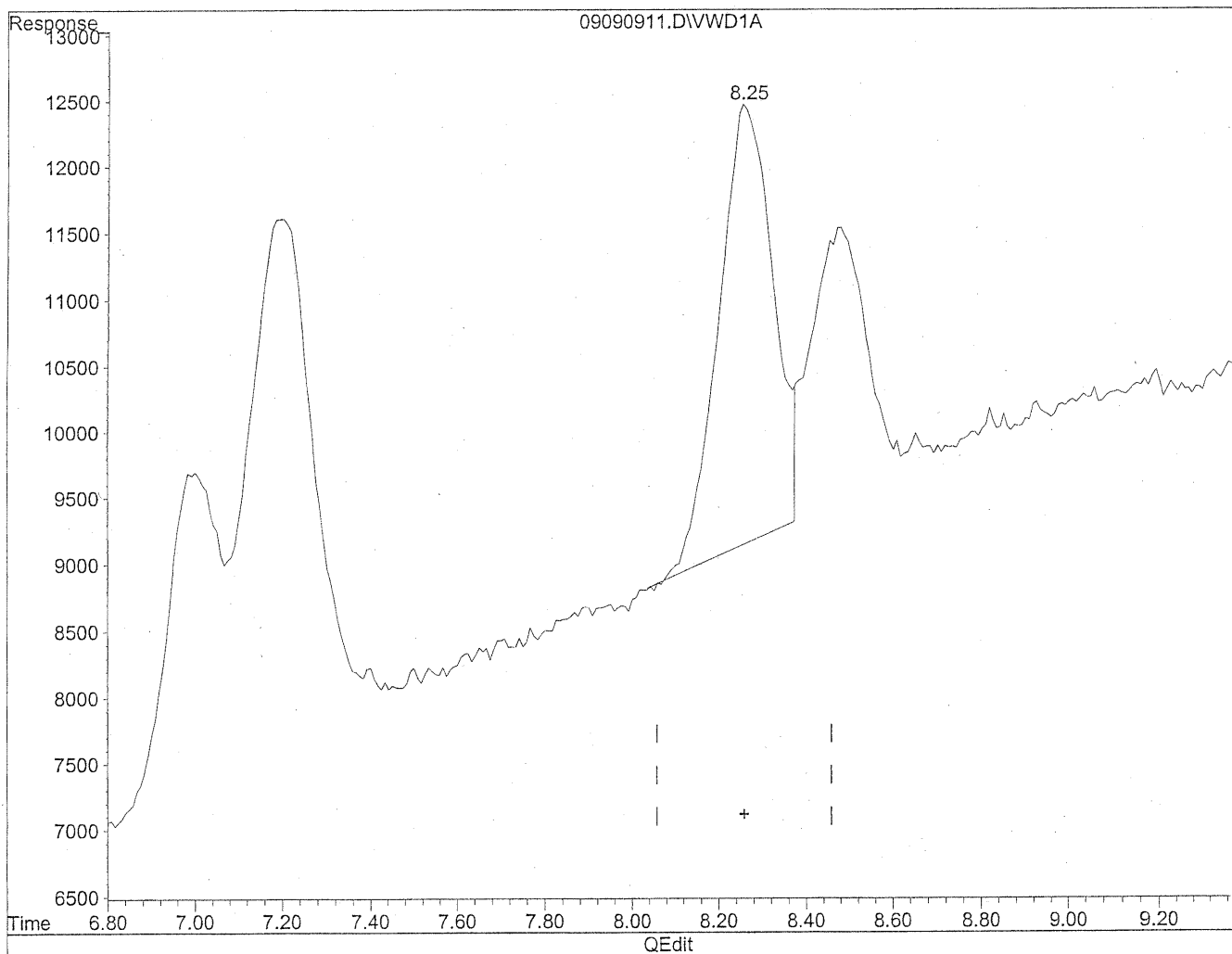


(11) Hexaldehyde
8.25min 88.073ng/ml
response 257900

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090911.D Vial: 8
Acq On : 09-Sep-2009, 15:54 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(11) Hexaldehyde
8.25min 96.453ng/ml m
response 282439

MD
9/10/09
12

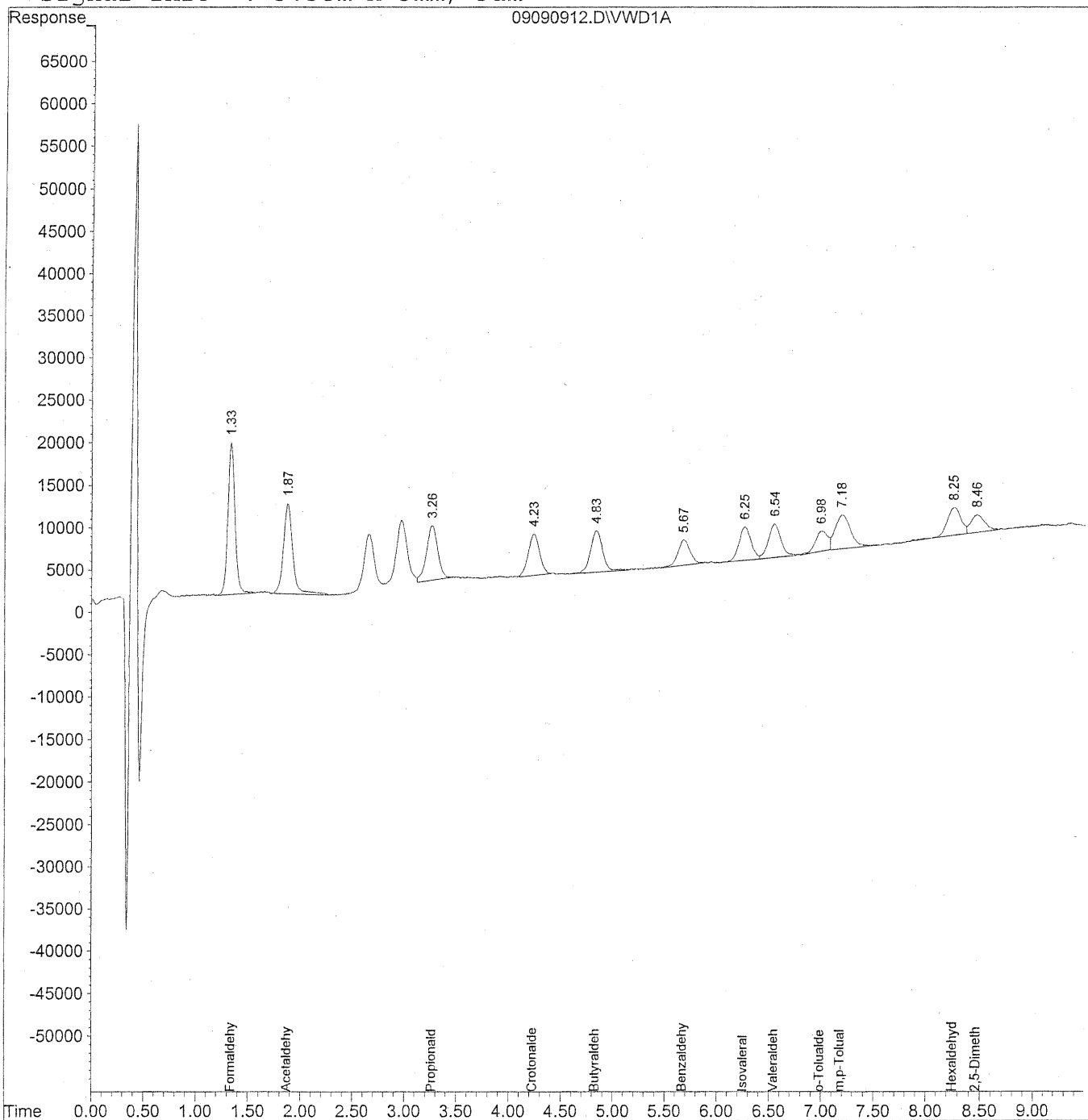
129/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090912.D Vial: 8
Acq On : 09-Sep-2009, 16:06 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:51 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



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Data File : J:\LC02\DATA\TO11A\2009_09\09\09090912.D Vial: 8
 Acq On : 09-Sep-2009, 16:06 Operator: MD
 Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:51 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

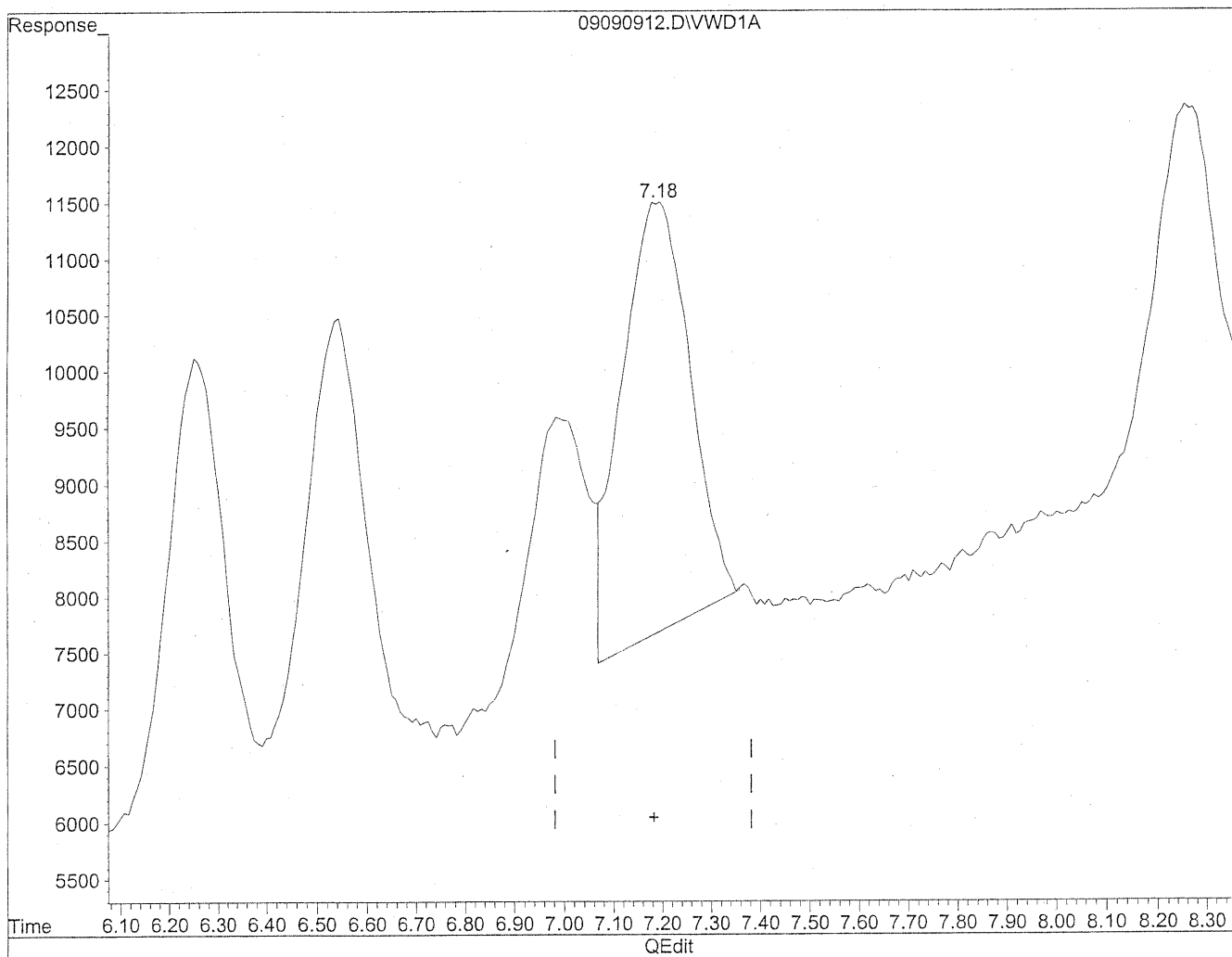
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.33	856527	95.214 ng/ml
2) Acetaldehyde	1.87	664731	103.021 ng/ml
3) Propionaldehyde	3.26	489979	96.720 ng/ml
4) Crotonaldehyde	4.23	375407	93.706 ng/ml
5) Butyraldehyde	4.83	399611	98.840 ng/ml
6) Benzaldehyde	5.67	241433	91.160 ng/ml
7) Isovaleraldehyde	6.26	313564	91.728 ng/ml
8) Valeraldehyde	6.54	335005	102.594 ng/ml
9) o-Tolualdehyde	6.99	188768	88.367 ng/ml
10) m,p-Tolualdehyde	7.18	416110	187.485 ng/mlm
11) Hexaldehyde	8.26	285615	98.813 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.47	182724	97.357 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090912.D Vial: 8
Acq On : 09-Sep-2009, 16:06 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

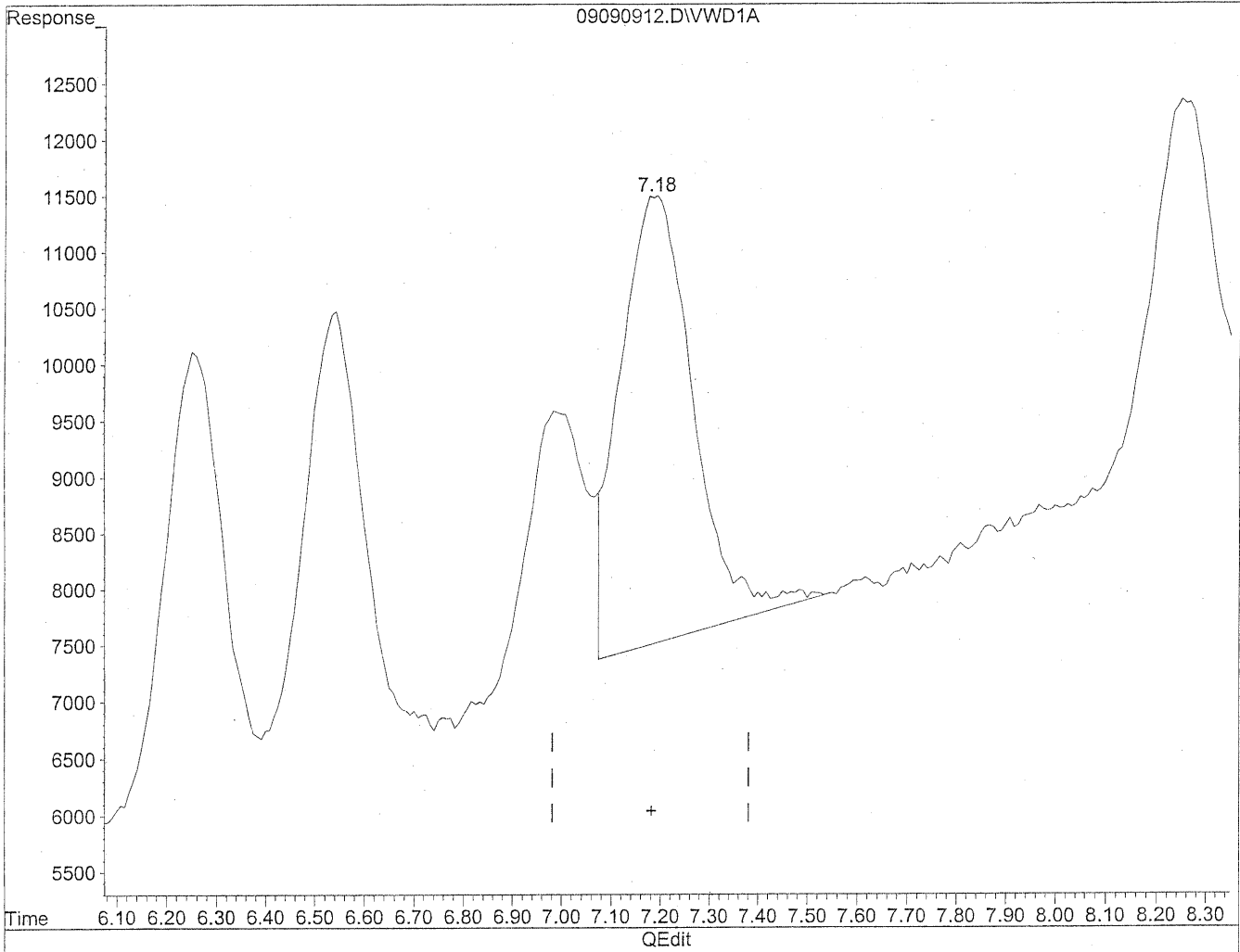


(10) m,p-Tolualdehyde
7.19min 169.858ng/ml
response 376988

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090912.D Vial: 8
Acq On : 09-Sep-2009, 16:06 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:50 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(10) m,p-Tolualdehyde
7.18min 187.485ng/ml m
response 416110

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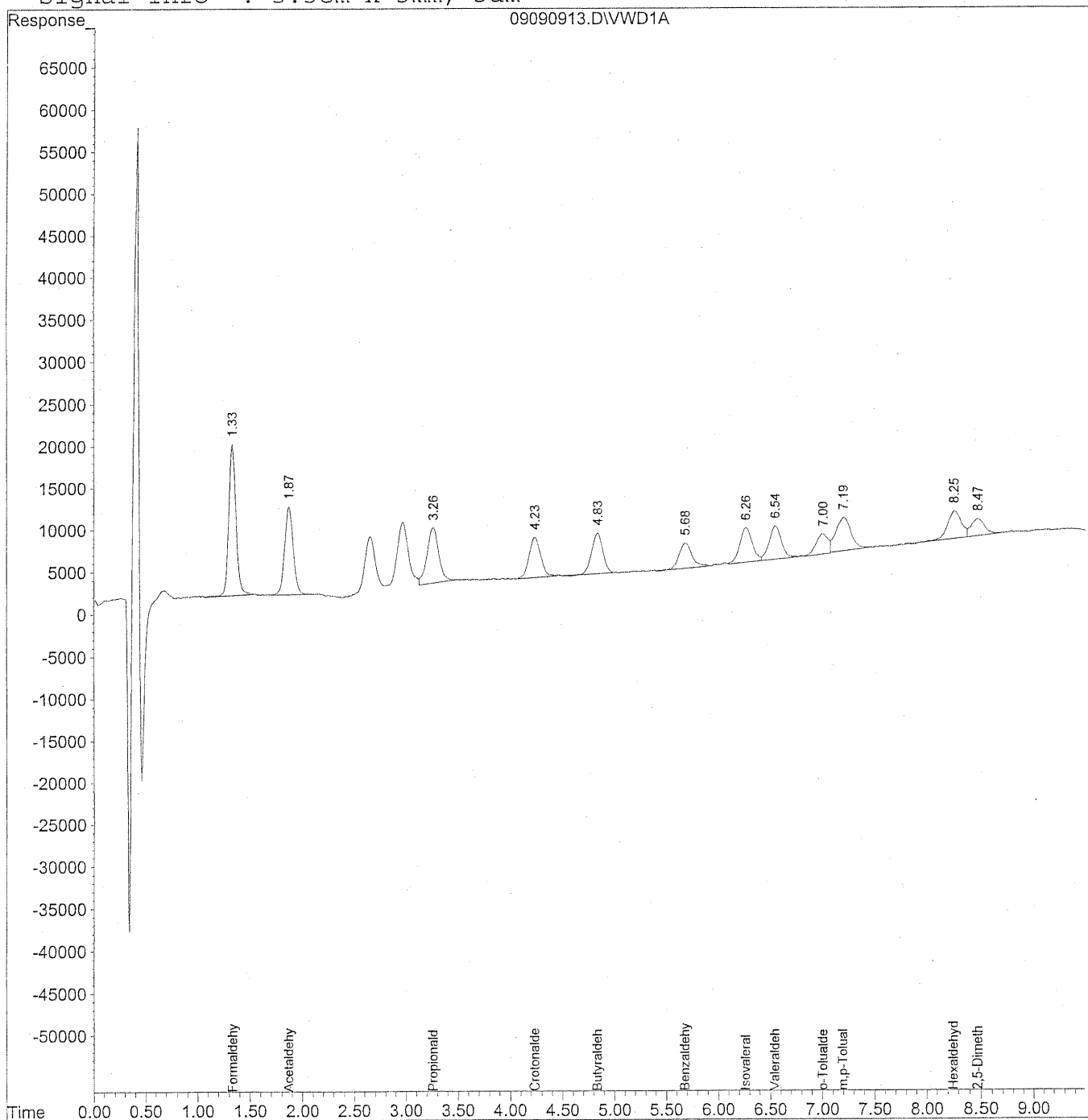
22 9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090913.D Vial: 8
Acq On : 09-Sep-2009, 16:17 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 9:02 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



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Data File : J:\LC02\DATA\TO11A\2009_09\09\09090913.D Vial: 8
 Acq On : 09-Sep-2009, 16:17 Operator: MD
 Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 9:02 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

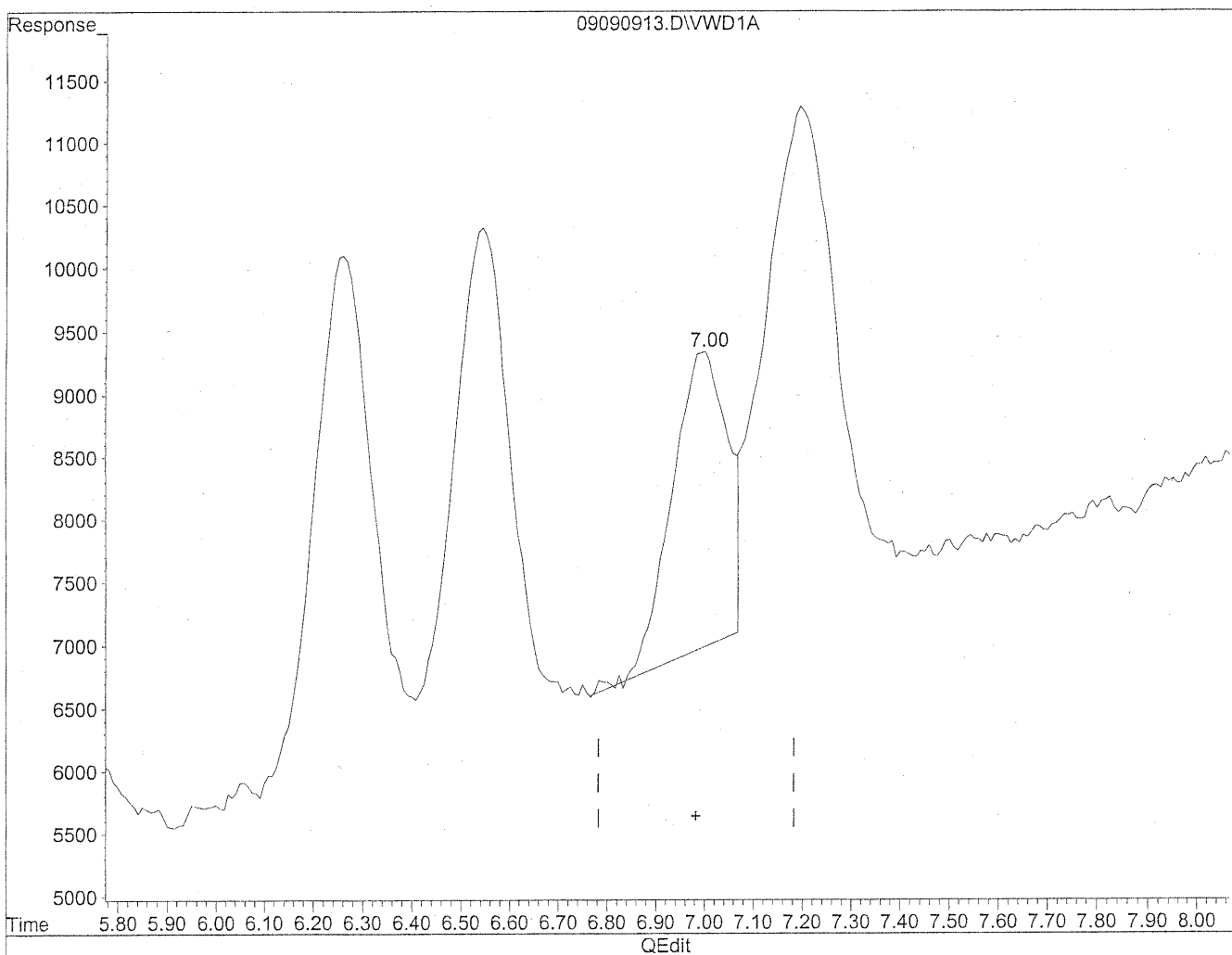
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.34	864000	96.057 ng/ml
2) Acetaldehyde	1.87	602096	92.574 ng/ml
3) Propionaldehyde	3.26	512978	101.355 ng/ml
4) Crotonaldehyde	4.24	373596	93.529 ng/ml
5) Butyraldehyde	4.84	358623	88.529 ng/ml
6) Benzaldehyde	5.68	261486	98.995 ng/ml
7) Isovaleraldehyde	6.26	340775	99.934 ng/ml
8) Valeraldehyde	6.54	327561	99.943 ng/ml
9) o-Tolualdehyde	7.00	198353	92.606 ng/ml
10) m,p-Tolualdehyde	7.20	403186	181.045 ng/ml
11) Hexaldehyde	8.26	288074	99.573 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.47	174836	92.662 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090913.D Vial: 8
Acq On : 09-Sep-2009, 16:17 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:51 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Thu Sep 10 09:02:40 2009
Response via : Multiple Level Calibration

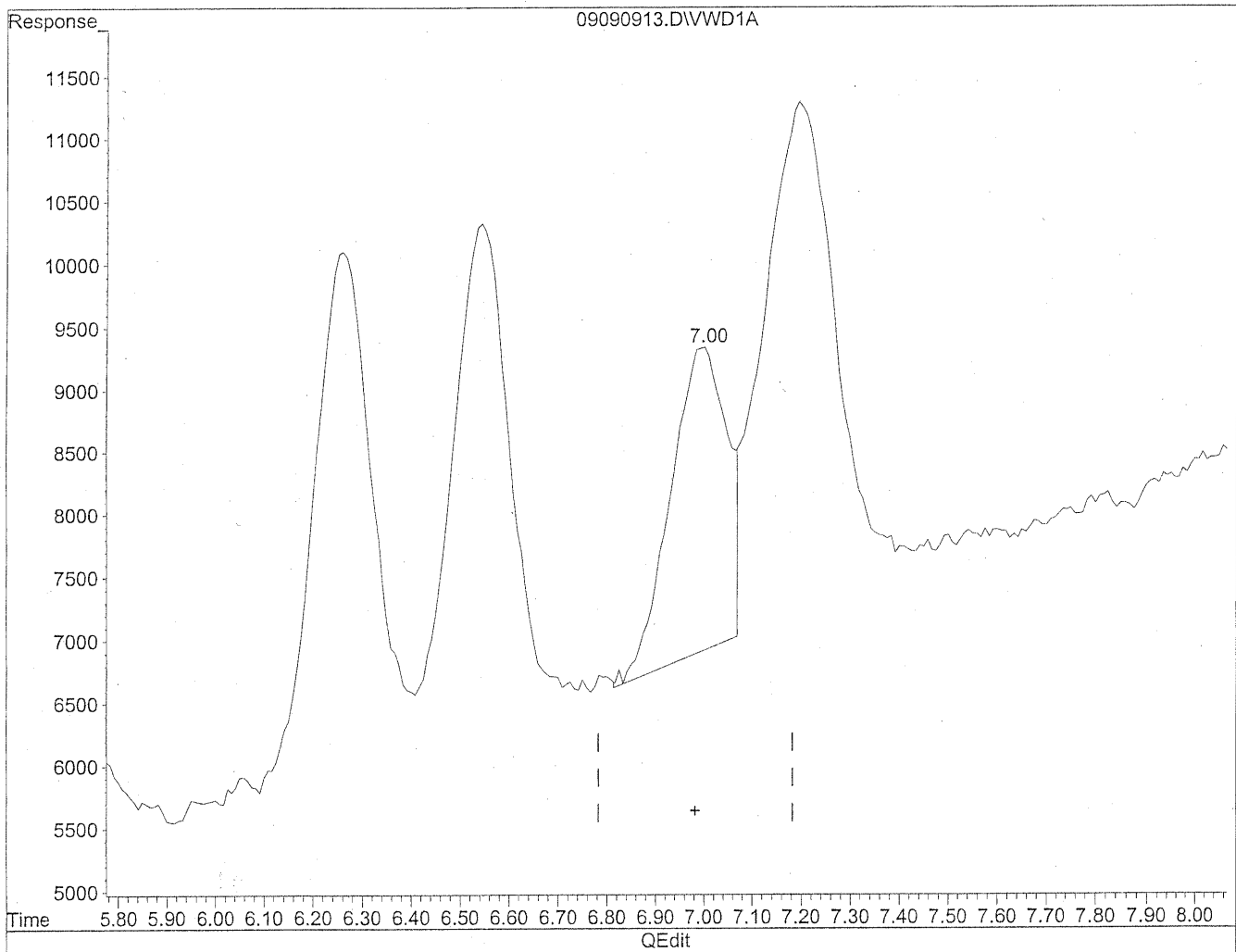


(9) o-Tolualdehyde
7.00min 84.692ng/ml
response 181403

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090913.D Vial: 8
Acq On : 09-Sep-2009, 16:17 Operator: MD
Sample : 100ng/ml TO-11A S21-09080904 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:51 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Thu Sep 10 09:02:40 2009
Response via : Multiple Level Calibration



(9) o-Tolualdehyde
7.00min 92.606ng/ml m
response 198353

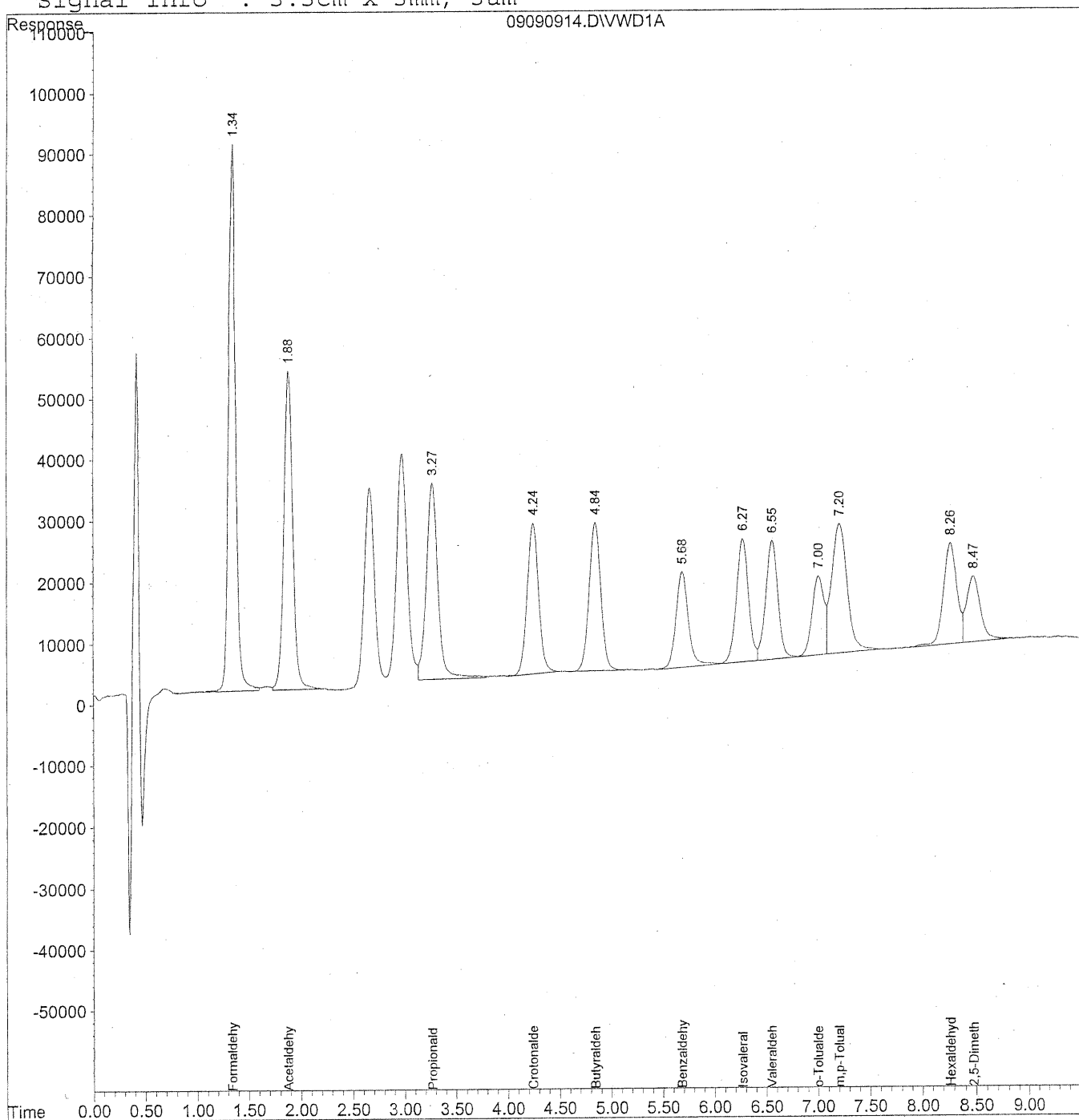
MD
9/10/09
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KR9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090914.D Vial: 7
Acq On : 09-Sep-2009, 16:29 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:52 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



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Data File : J:\LC02\DATA\TO11A\2009_09\09\09090914.D Vial: 7
 Acq On : 09-Sep-2009, 16:29 Operator: MD
 Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:52 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

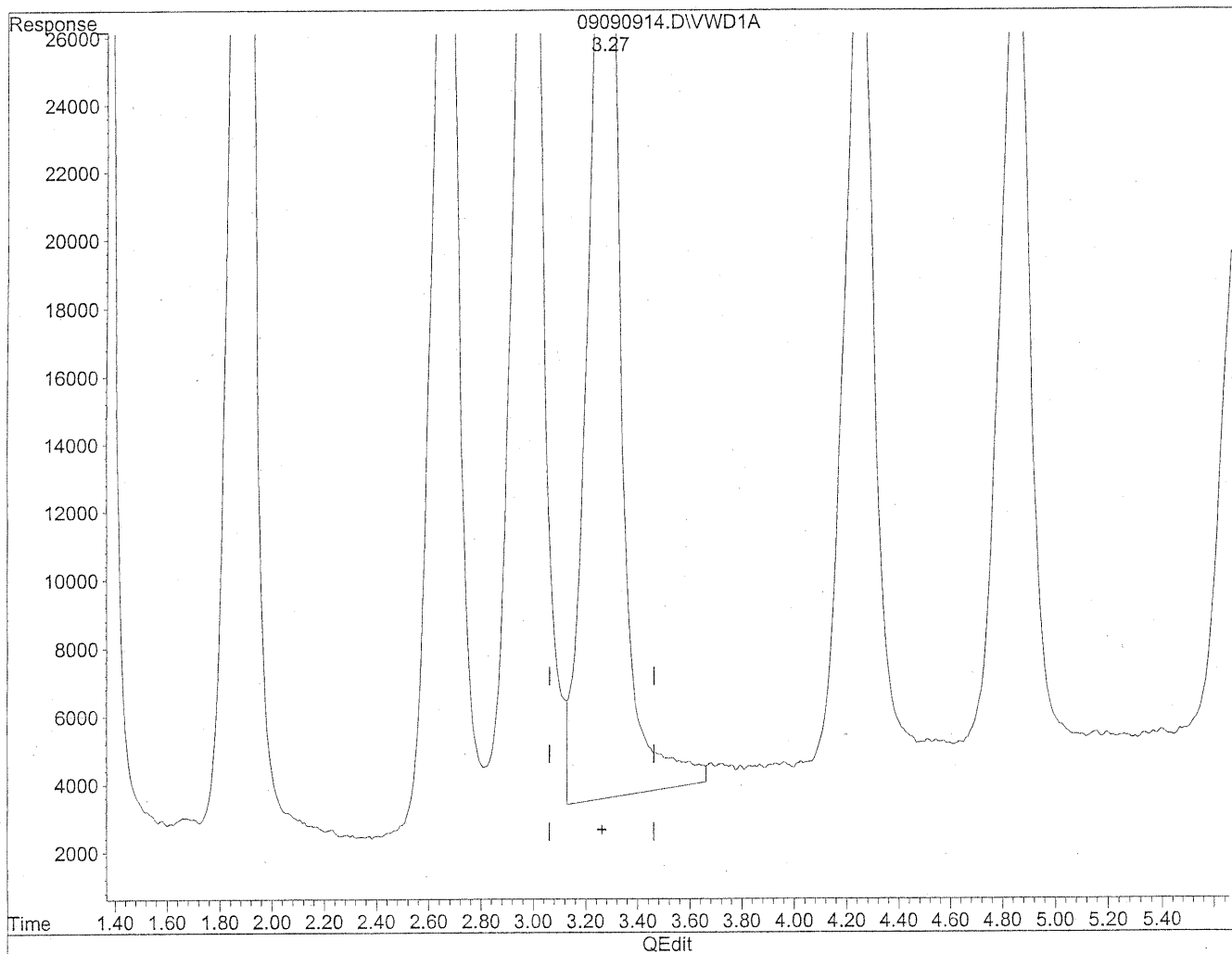
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.34	4290125	476.763 ng/ml
2) Acetaldehyde	1.88	3109621	479.414 ng/ml
3) Propionaldehyde	3.27	2494796	491.839 ng/ml
4) Crotonaldehyde	4.24	1900371	476.346 ng/ml
5) Butyraldehyde	4.84	1886701	468.075 ng/ml
6) Benzaldehyde	5.69	1323186	499.277 ng/ml
7) Isovaleraldehyde	6.27	1631123	476.614 ng/ml
8) Valeraldehyde	6.55	1598180	487.637 ng/ml
9) o-Tolualdehyde	7.00	1023918	478.529 ng/ml
10) m,p-Tolualdehyde	7.20	2205841	990.981 ng/ml
11) Hexaldehyde	8.27	1425262	492.260 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.48	964881	511.672 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090914.D Vial: 7
Acq On : 09-Sep-2009, 16:29 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

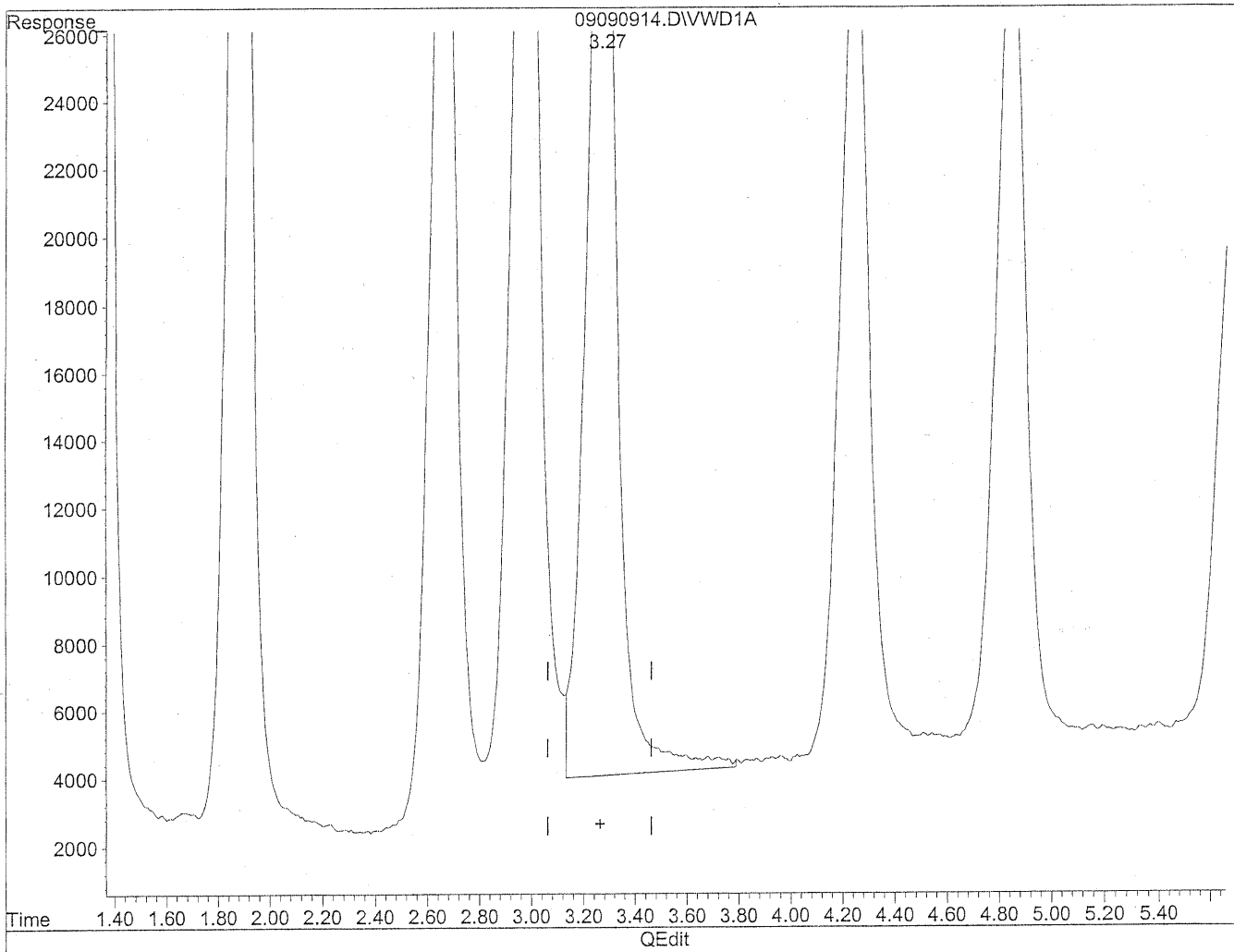


(3) Propionaldehyde
3.27min 515.231ng/ml
response 2613453

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090914.D Vial: 7
Acq On : 09-Sep-2009, 16:29 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:52 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(3) Propionaldehyde
3.27min 491.839ng/ml m
response 2494796

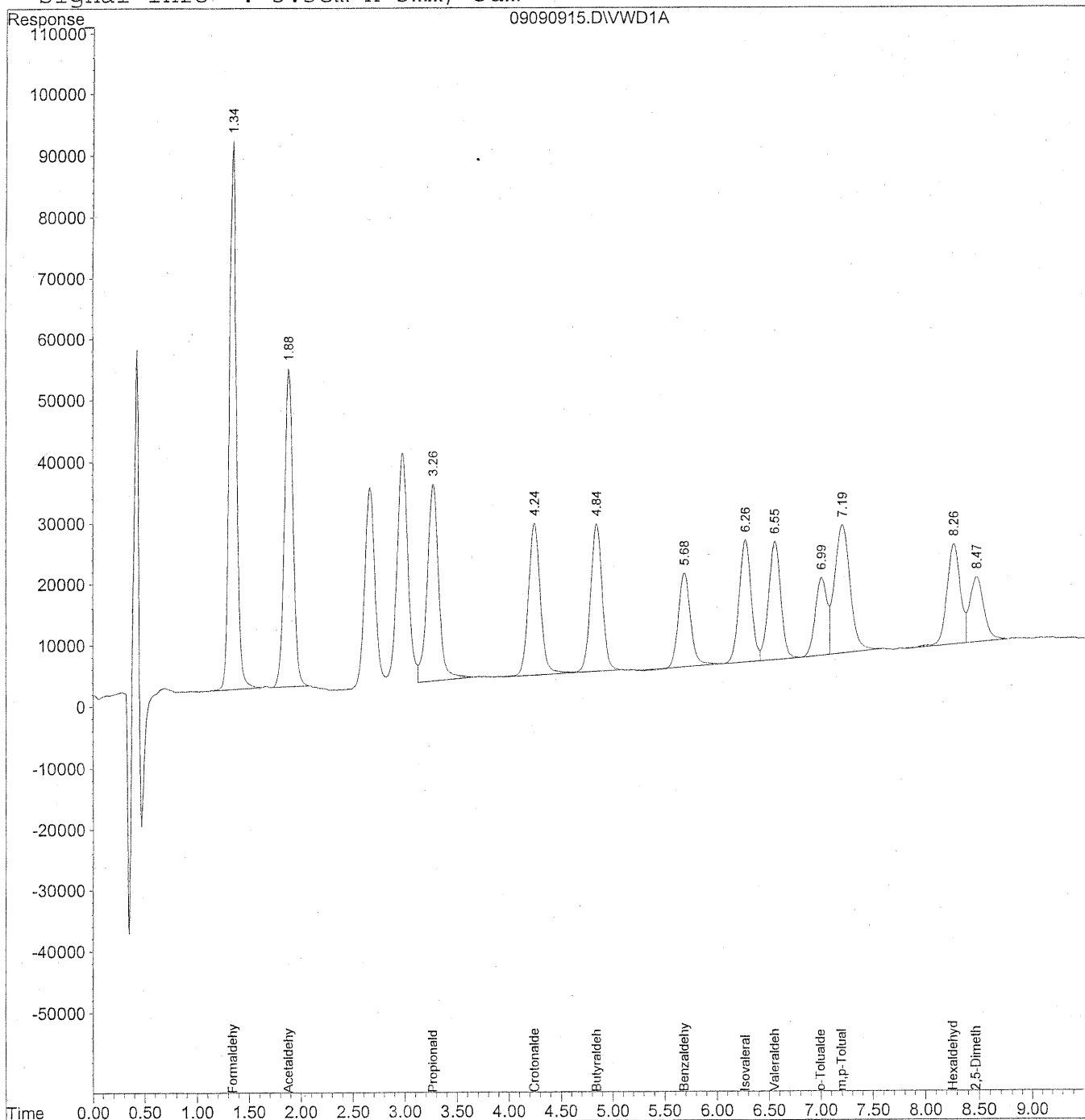
MD
9/10/09
BZ
12/9/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090915.D Vial: 7
Acq On : 09-Sep-2009, 16:40 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:53 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090915.D Vial: 7
 Acq On : 09-Sep-2009, 16:40 Operator: MD
 Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:53 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

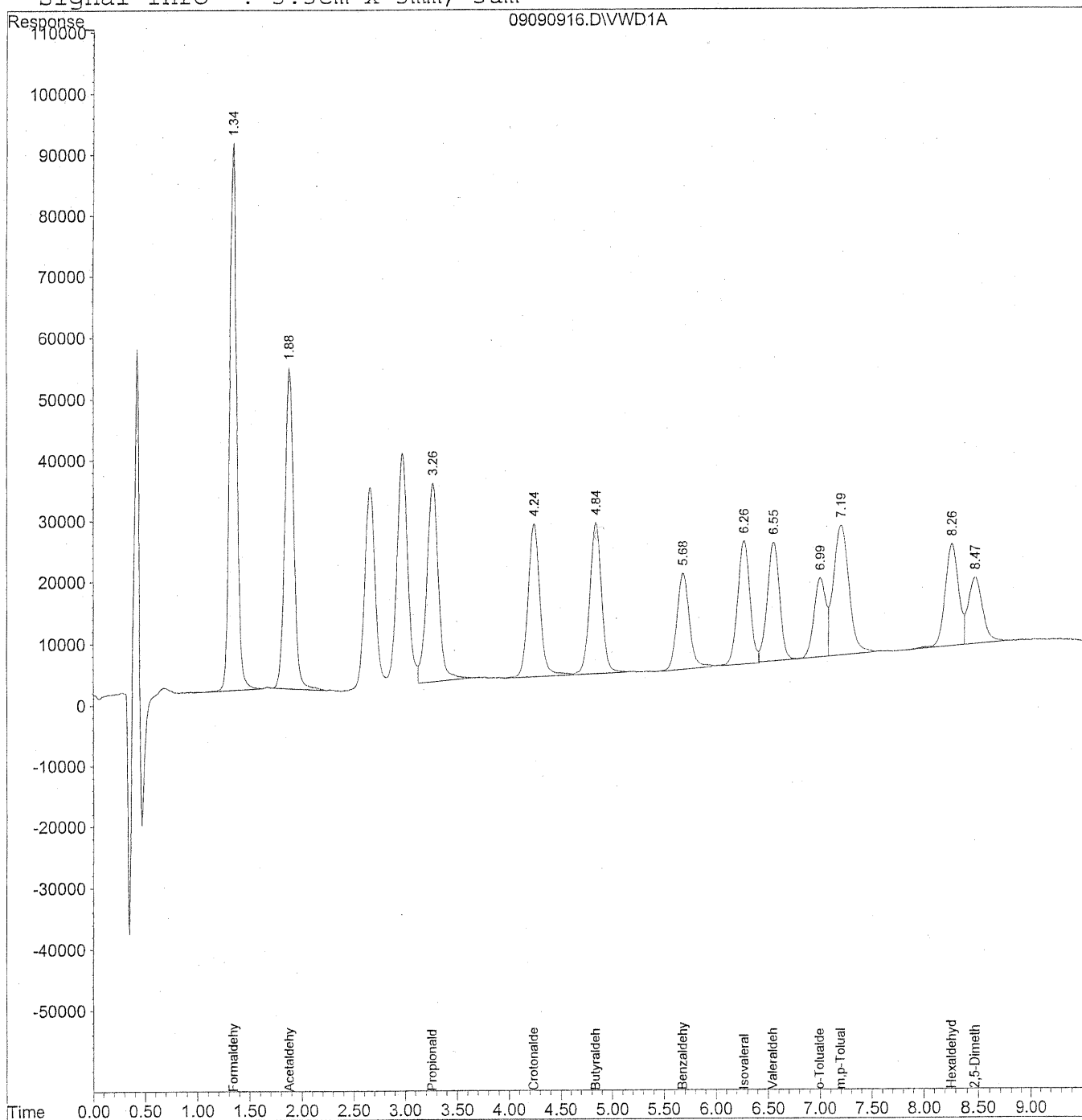
Target Compounds			
1) Formaldehyde	1.34	4242920	476.675 ng/ml
2) Acetaldehyde	1.88	2996333	465.530 ng/ml
3) Propionaldehyde	3.27	2520033	495.333 ng/ml
4) Crotonaldehyde	4.24	1968873	499.829 ng/ml
5) Butyraldehyde	4.84	1894865	474.705 ng/ml
6) Benzaldehyde	5.68	1238947	466.007 ng/ml
7) Isovaleraldehyde	6.27	1614213	474.093 ng/ml
8) Valeraldehyde	6.55	1593172	485.301 ng/ml
9) o-Tolualdehyde	7.00	1018615	479.067 ng/ml
10) m,p-Tolualdehyde	7.20	2181093	980.898 ng/ml
11) Hexaldehyde	8.26	1423115	491.568 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.47	956005	504.834 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090916.D Vial: 7
Acq On : 09-Sep-2009, 16:51 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:54 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090916.D Vial: 7
 Acq On : 09-Sep-2009, 16:51 Operator: MD
 Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:54 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

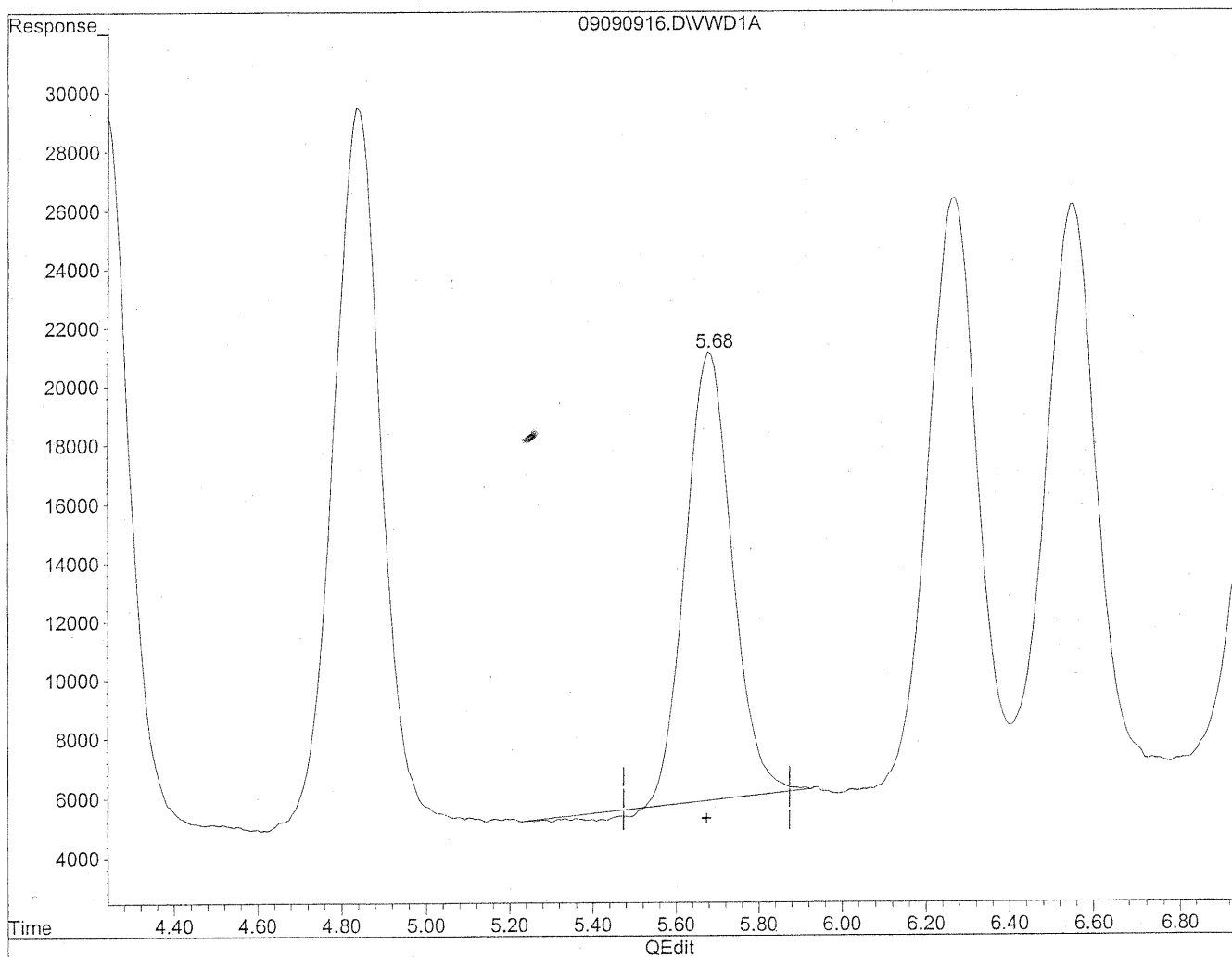
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) Formaldehyde	1.34	4239441	476.706	ng/ml
2) Acetaldehyde	1.88	3088021	481.187	ng/ml
3) Propionaldehyde	3.27	2504937	491.959	ng/ml
4) Crotonaldehyde	4.24	1993623	504.650	ng/ml
5) Butyraldehyde	4.84	1946571	487.492	ng/ml
6) Benzaldehyde	5.68	1291253	488.260	ng/mlm
7) Isovaleraldehyde	6.26	1639714	481.982	ng/mlm
8) Valeraldehyde	6.55	1572954	479.264	ng/ml
9) o-Tolualdehyde	7.00	1012283	476.287	ng/ml
10) m,p-Tolualdehyde	7.20	2206747	993.357	ng/ml
11) Hexaldehyde	8.26	1418487	490.030	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.47	962409	508.613	ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090916.D Vial: 7
Acq On : 09-Sep-2009, 16:51 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:53 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

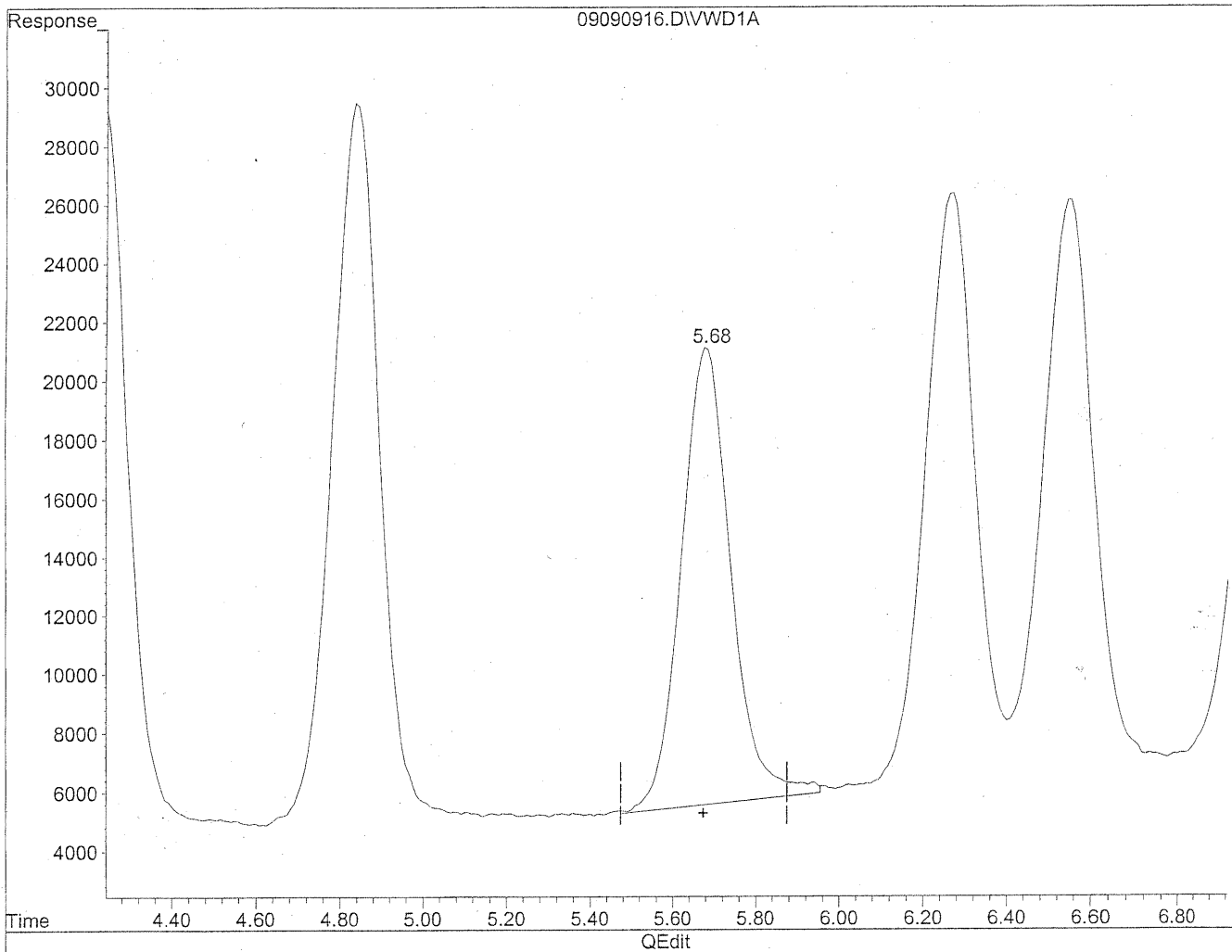


(6) Benzaldehyde
5.68min 446.383ng/ml
response 1180507

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090916.D Vial: 7
Acq On : 09-Sep-2009, 16:51 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:53 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(6) Benzaldehyde
5.68min 488.260ng/ml m
response 1291253

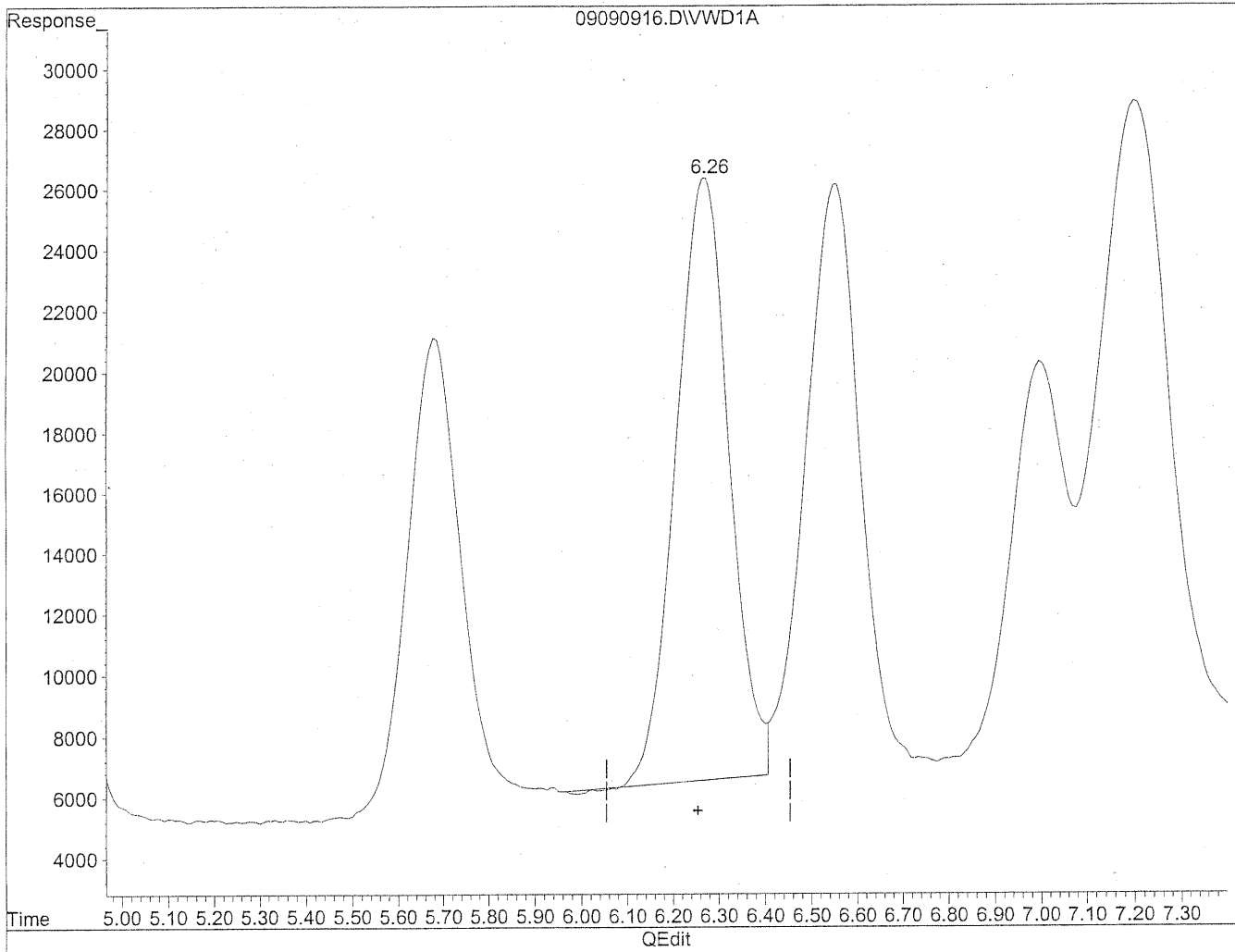
MD
9/10/09
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KR 9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090916.D Vial: 7
Acq On : 09-Sep-2009, 16:51 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:53 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration

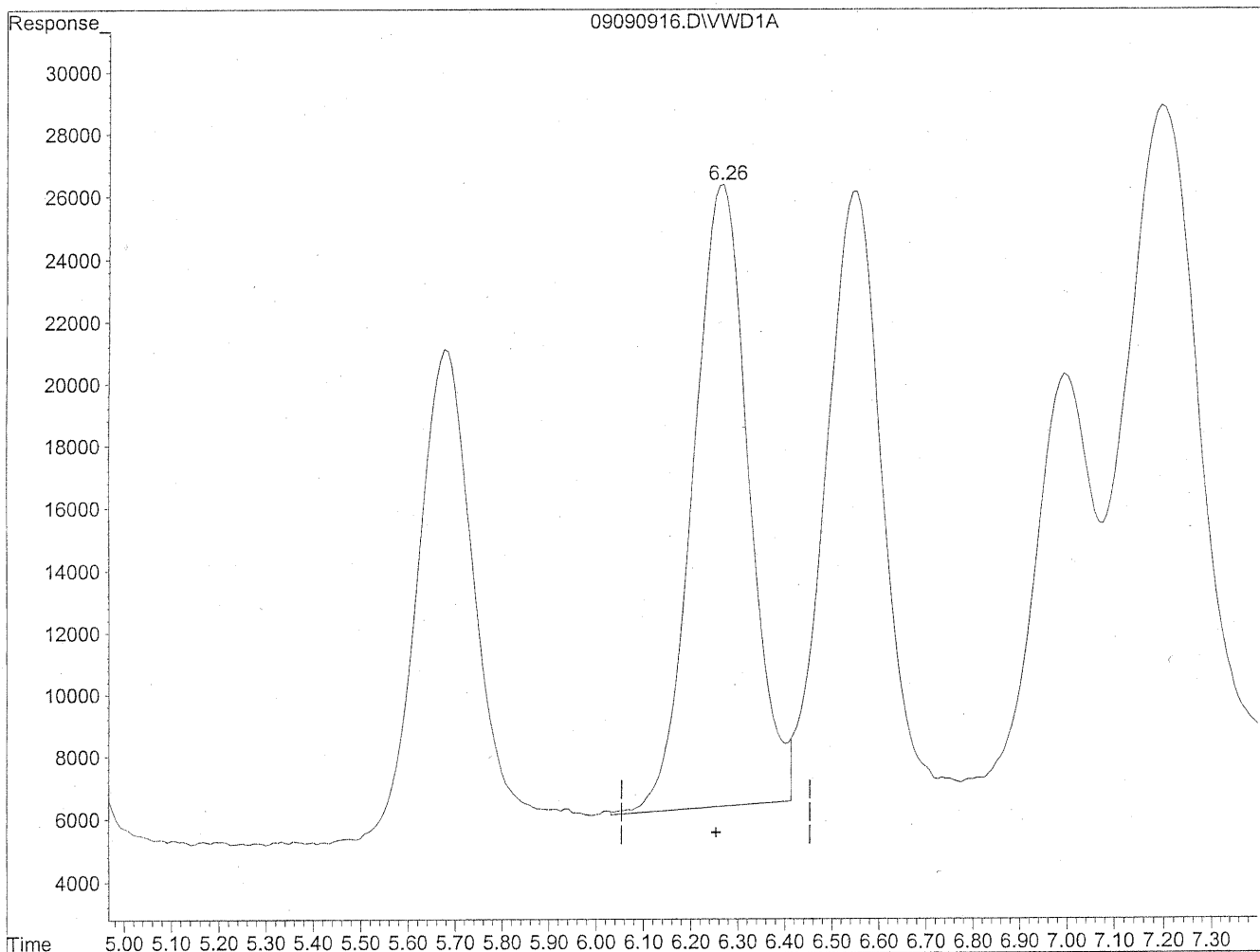


(7) Isovaleraldehyde
6.27min 466.813ng/ml
response 1588109

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090916.D Vial: 7
Acq On : 09-Sep-2009, 16:51 Operator: MD
Sample : 500ng/ml TO-11A S21-09080903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:53 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration



(7) Isovaleraldehyde
6.26min 481.982ng/ml m
response 1639714

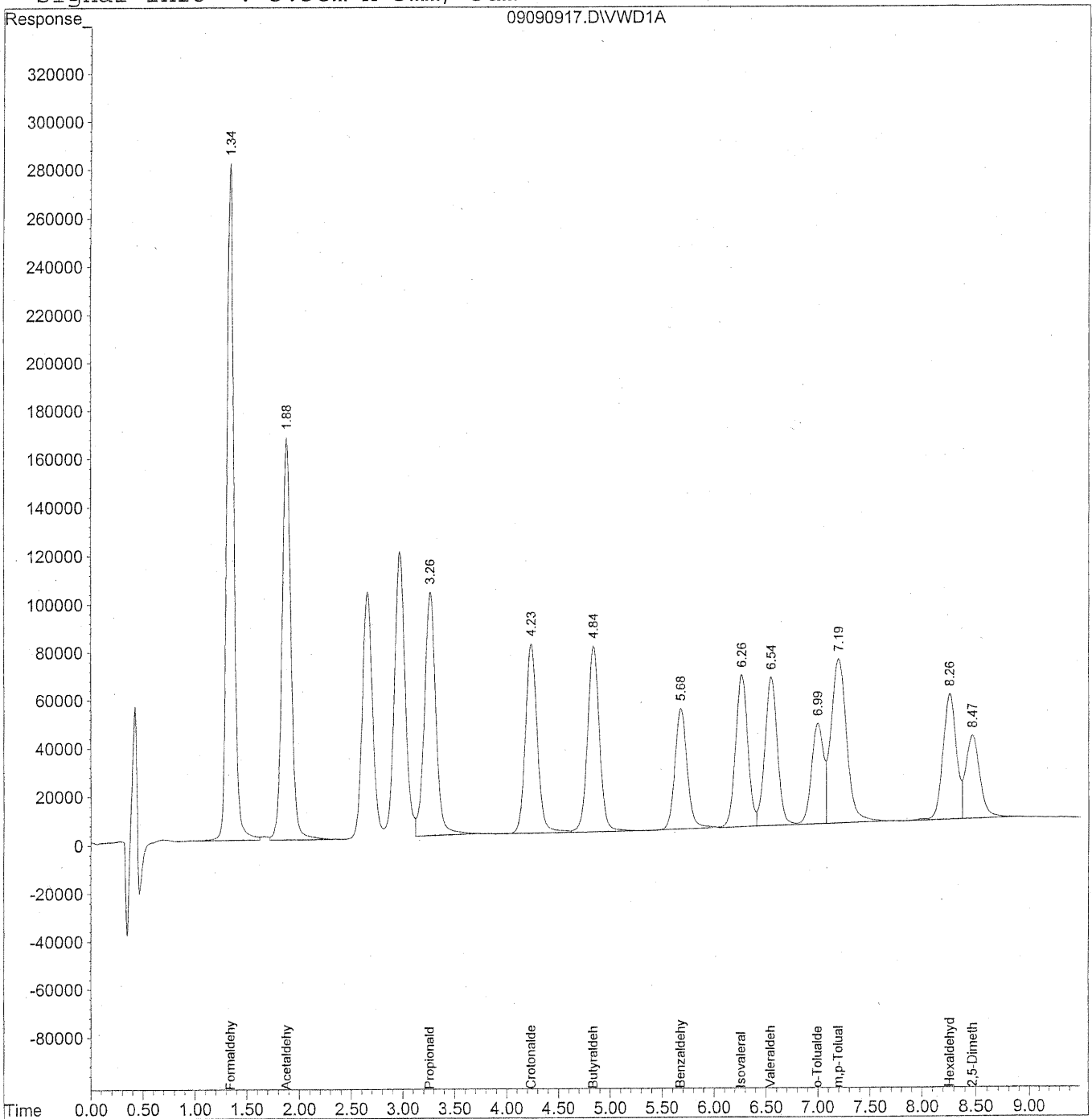
MD
9/10/09
12
KE 9/10/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090917.D Vial: 6
Acq On : 09-Sep-2009, 17:03 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:54 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090917.D Vial: 6
Acq On : 09-Sep-2009, 17:03 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:54 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Initial Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um

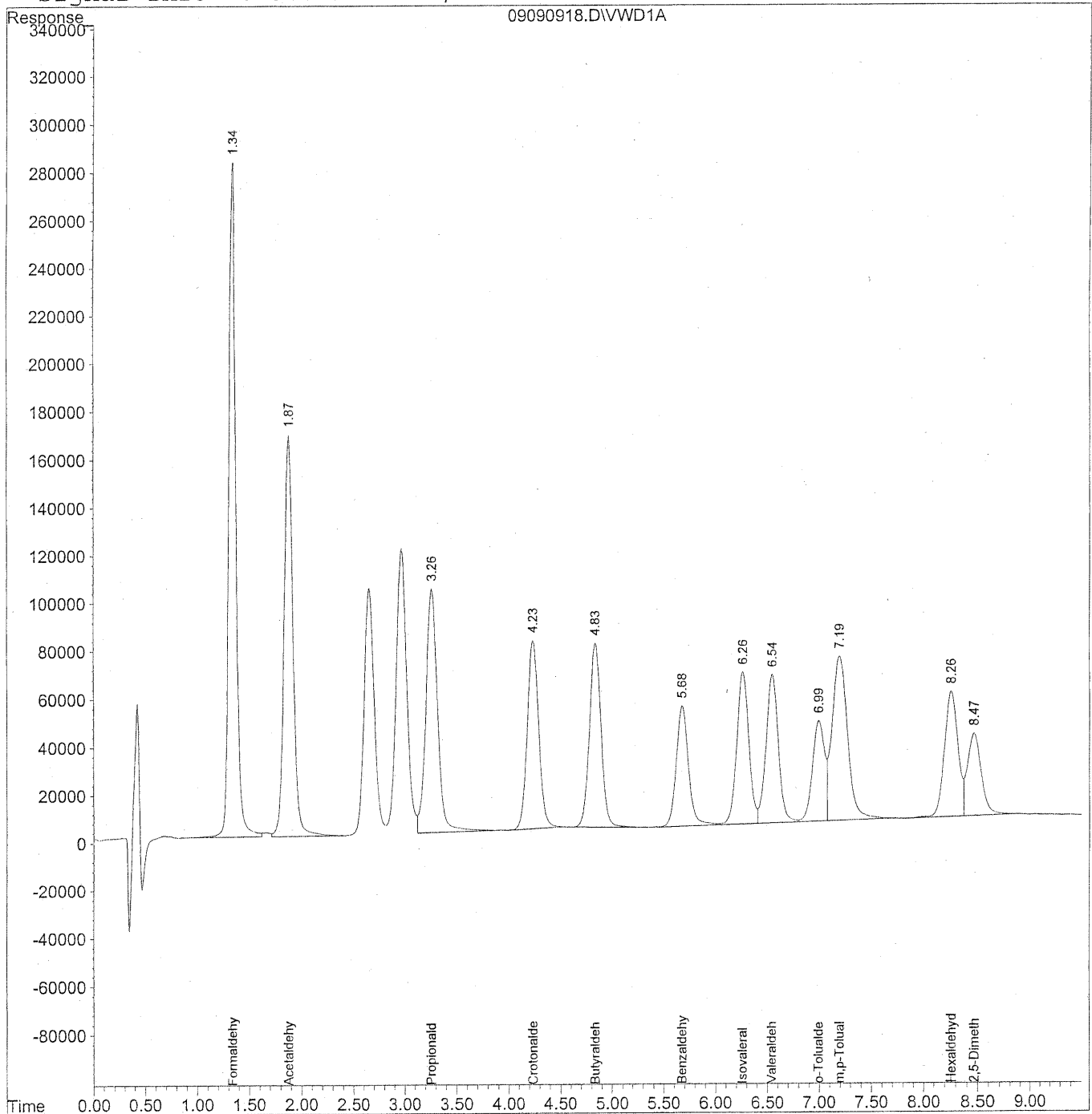
Table with 5 columns: Compound, R.T., Response, Conc, Units. Lists 12 target compounds including Formaldehyde, Acetaldehyde, Propionaldehyde, Crotonaldehyde, Butyraldehyde, Benzaldehyde, Isovaleraldehyde, Valeraldehyde, o-Tolualdehyde, m,p-Tolualdehyde, Hexaldehyde, and 2,5-Dimethylbenzaldehyde.

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090918.D Vial: 6
Acq On : 09-Sep-2009, 17:14 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:55 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



156

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090918.D Vial: 6
 Acq On : 09-Sep-2009, 17:14 Operator: MD
 Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:55 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc	Units

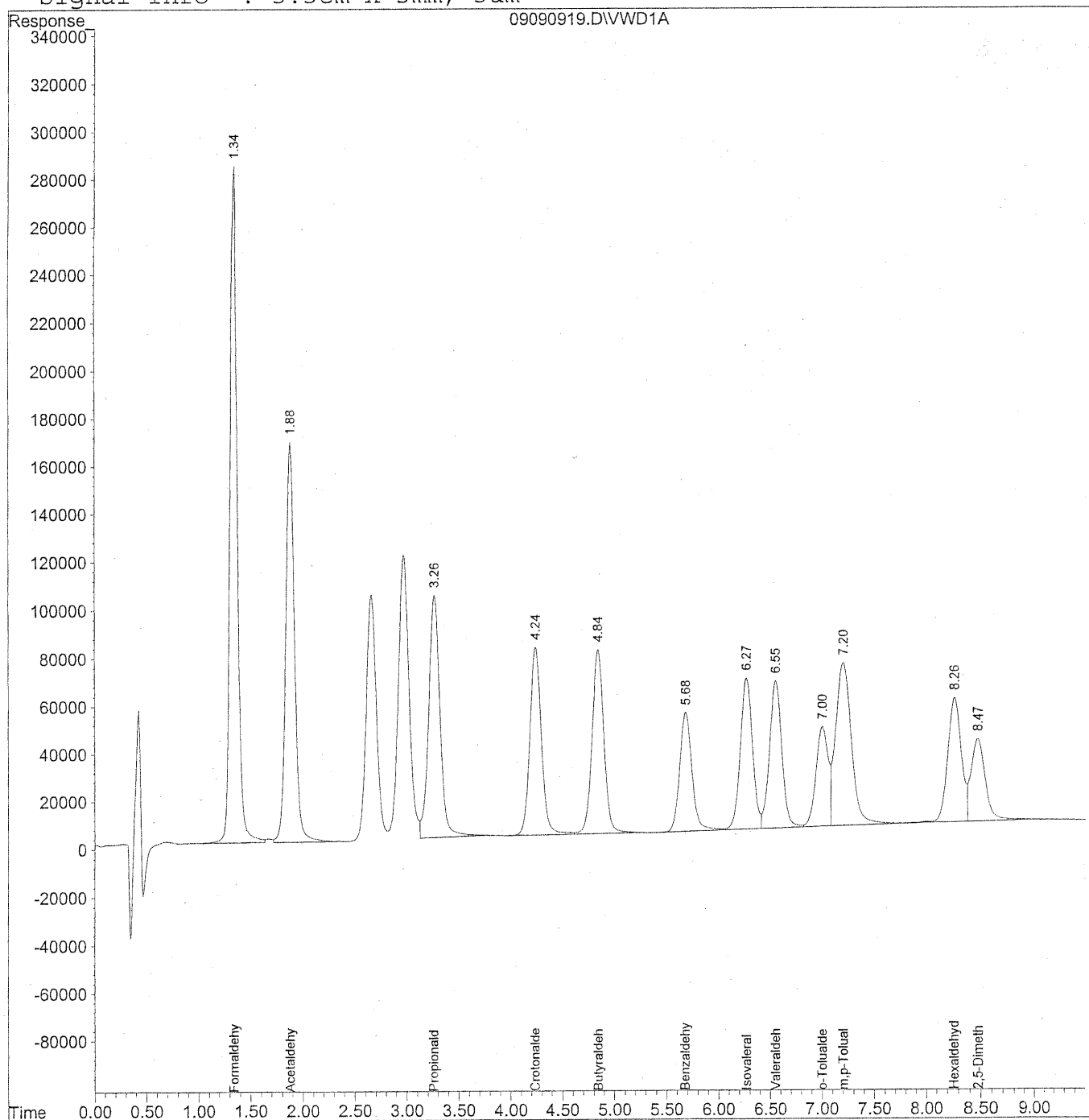
Target Compounds				
1) Formaldehyde	1.34	13578339	1534.981	ng/ml
2) Acetaldehyde	1.88	9942887	1551.020	ng/ml
3) Propionaldehyde	3.26	7876607	1547.881	ng/ml
4) Crotonaldehyde	4.24	6053894	1529.058	ng/ml
5) Butyraldehyde	4.84	6038847	1511.965	ng/ml
6) Benzaldehyde	5.68	4163474	1571.850	ng/ml
7) Isovaleraldehyde	6.27	5182178	1528.173	ng/ml
8) Valeraldehyde	6.55	5176264	1571.132	ng/ml
9) o-Tolualdehyde	7.00	3396097	1598.500	ng/ml
10) m,p-Tolualdehyde	7.20	7179077	3215.253	ng/ml
11) Hexaldehyde	8.26	4448983	1533.800	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.47	3056583	1602.761	ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090919.D Vial: 6
Acq On : 09-Sep-2009, 17:26 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:56 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



158

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090919.D Vial: 6
 Acq On : 09-Sep-2009, 17:26 Operator: MD
 Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:56 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc	Units

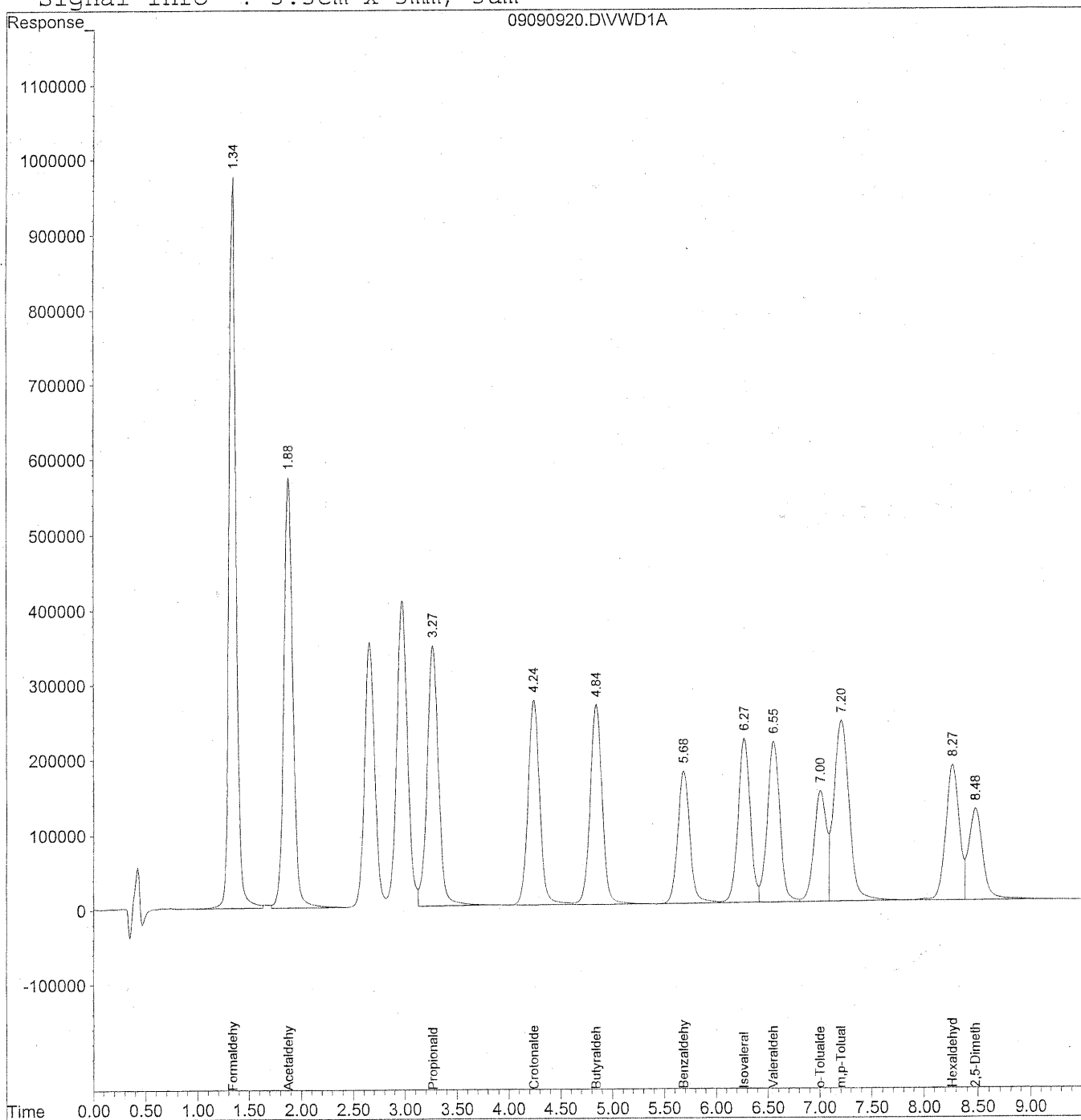
Target Compounds				
1) Formaldehyde	1.34	13548320	1530.469	ng/ml
2) Acetaldehyde	1.88	9888425	1541.106	ng/ml
3) Propionaldehyde	3.27	7759817	1522.663	ng/ml
4) Crotonaldehyde	4.24	6211709	1571.700	ng/ml
5) Butyraldehyde	4.84	6160753	1545.118	ng/ml
6) Benzaldehyde	5.68	4131112	1556.228	ng/ml
7) Isovaleraldehyde	6.27	5170579	1523.089	ng/ml
8) Valeraldehyde	6.55	5170597	1567.526	ng/ml
9) o-Tolualdehyde	7.00	3376687	1587.343	ng/ml
10) m,p-Tolualdehyde	7.20	7206393	3225.643	ng/ml
11) Hexaldehyde	8.27	4462344	1538.905	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.47	3155386	1656.115	ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090920.D Vial: 5
Acq On : 09-Sep-2009, 17:37 Operator: MD
Sample : 5000ng/ml TO-11A S21-09080902 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:56 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



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Data File : J:\LC02\DATA\TO11A\2009_09\09\09090920.D Vial: 5
 Acq On : 09-Sep-2009, 17:37 Operator: MD
 Sample : 5000ng/ml TO-11A S21-09080902 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:56 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc	Units

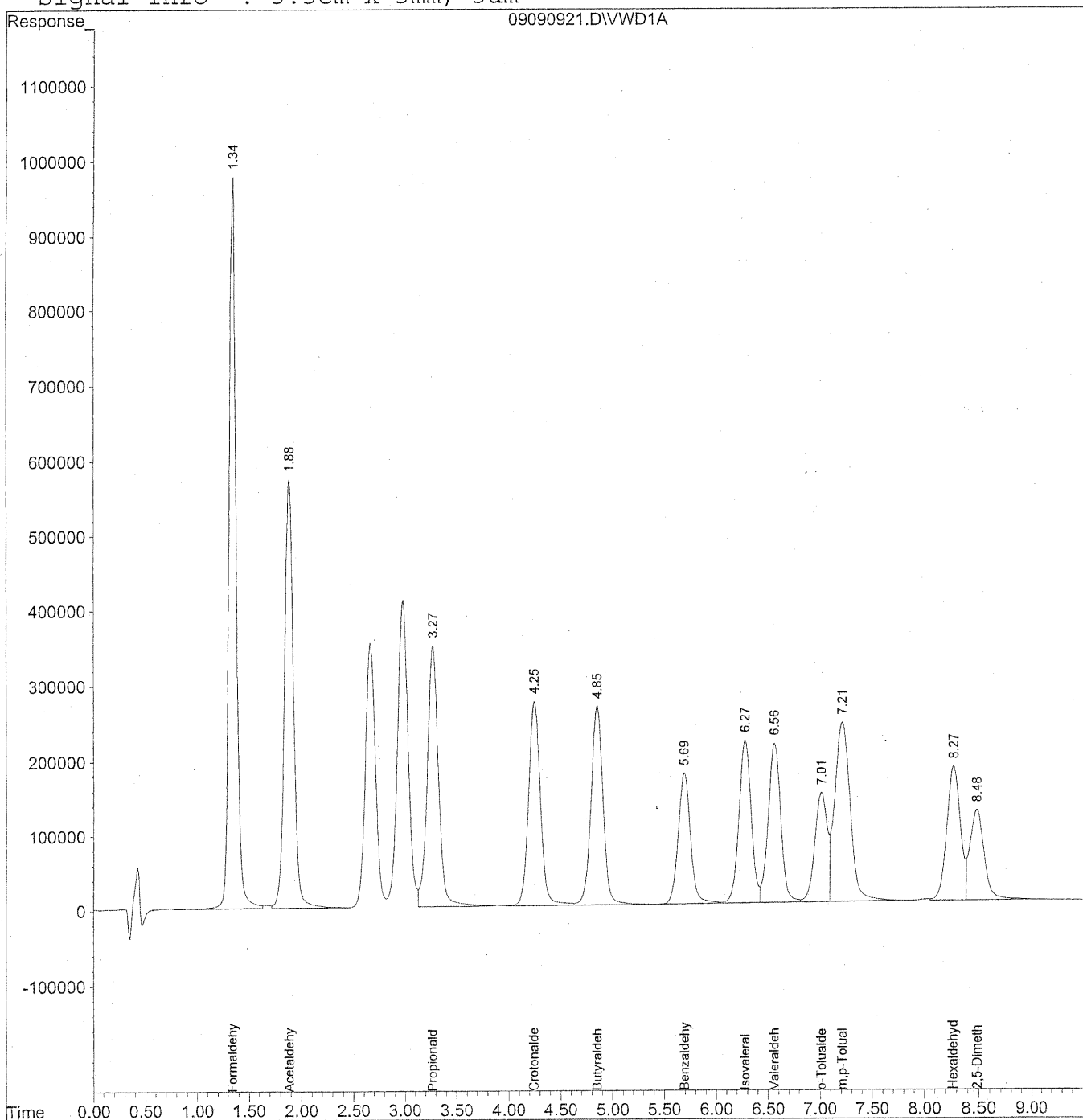
Target Compounds				
1) Formaldehyde	1.34	46422998	5243.497	ng/ml
2) Acetaldehyde	1.88	33949113	5290.994	ng/ml
3) Propionaldehyde	3.27	26460164	5193.957	ng/ml
4) Crotonaldehyde	4.24	21469148	5427.351	ng/ml
5) Butyraldehyde	4.84	21371531	5356.965	ng/ml
6) Benzaldehyde	5.69	14455457	5444.003	ng/ml
7) Isovaleraldehyde	6.27	17854488	5258.118	ng/ml
8) Valeraldehyde	6.55	17905508	5426.435	ng/ml
9) o-Tolualdehyde	7.00	11990582	5636.154	ng/ml
10) m,p-Tolualdehyde	7.20	25039167	11203.076	ng/ml
11) Hexaldehyde	8.27	15466841	5333.634	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.48	11107870	5820.635	ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090921.D Vial: 5
Acq On : 09-Sep-2009, 17:49 Operator: MD
Sample : 5000ng/ml TO-11A S21-09080902 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:57 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090921.D Vial: 5
 Acq On : 09-Sep-2009, 17:49 Operator: MD
 Sample : 5000ng/ml TO-11A S21-09080902 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:57 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc	Units

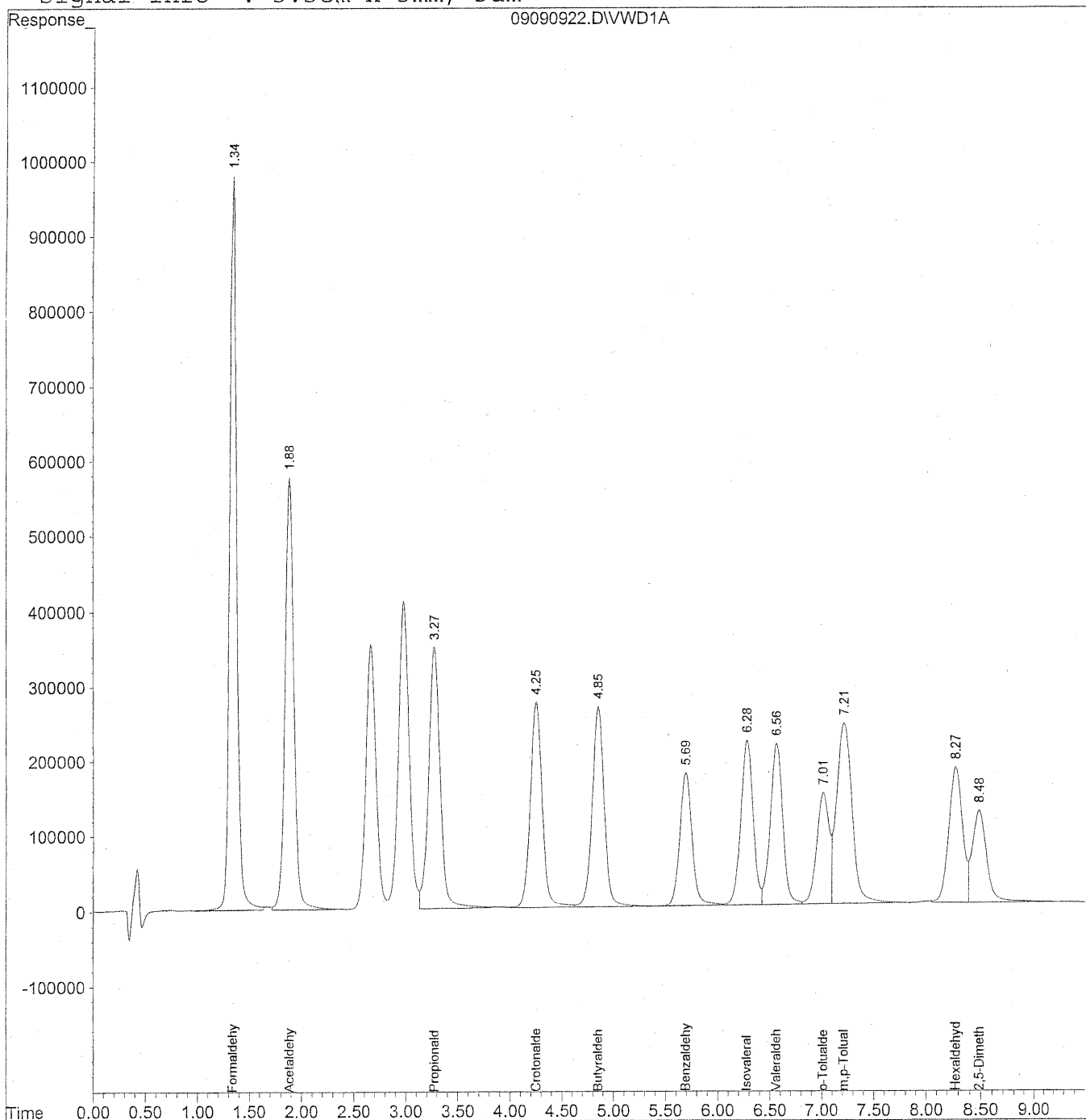
Target Compounds				
1) Formaldehyde	1.35	46464064	5198.646	ng/ml
2) Acetaldehyde	1.88	33977292	5236.353	ng/ml
3) Propionaldehyde	3.27	26758092	5177.051	ng/ml
4) Crotonaldehyde	4.25	21604348	5366.312	ng/ml
5) Butyraldehyde	4.85	21444271	5303.711	ng/ml
6) Benzaldehyde	5.69	14435192	5328.040	ng/ml
7) Isovaleraldehyde	6.28	17875029	5200.288	ng/ml
8) Valeraldehyde	6.56	17921465	5321.025	ng/ml
9) o-Tolualdehyde	7.01	11986554	5544.716	ng/ml
10) m,p-Tolualdehyde	7.21	25032033	10984.299	ng/ml
11) Hexaldehyde	8.27	15380456	5215.387	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.48	11113181	5654.303	ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090922.D Vial: 5
Acq On : 09-Sep-2009, 18:00 Operator: MD
Sample : 5000ng/ml TO-11A S21-09080902 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:58 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090922.D Vial: 5
 Acq On : 09-Sep-2009, 18:00 Operator: MD
 Sample : 5000ng/ml TO-11A S21-09080902 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:58 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc	Units

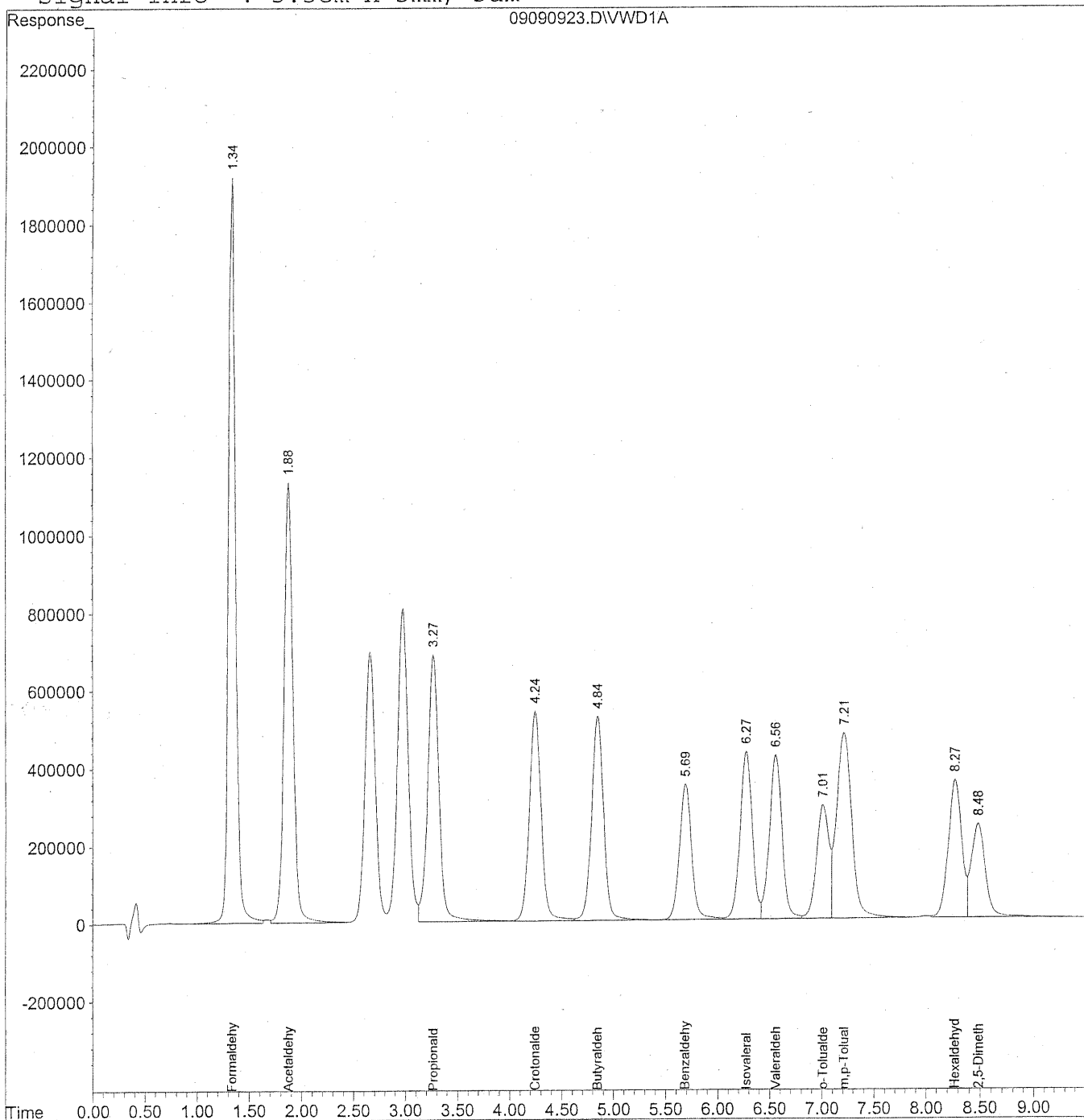
Target Compounds				
1) Formaldehyde	1.35	46648983	5218.936	ng/ml
2) Acetaldehyde	1.88	34054104	5247.811	ng/ml
3) Propionaldehyde	3.27	26843474	5188.585	ng/ml
4) Crotonaldehyde	4.25	21717189	5391.323	ng/ml
5) Butyraldehyde	4.85	21538832	5325.502	ng/ml
6) Benzaldehyde	5.69	14515721	5358.432	ng/ml
7) Isovaleraldehyde	6.28	17932725	5216.554	ng/ml
8) Valeraldehyde	6.56	17988106	5340.390	ng/ml
9) o-Tolualdehyde	7.01	12035186	5567.385	ng/ml
10) m,p-Tolualdehyde	7.21	25134428	11029.519	ng/ml
11) Hexaldehyde	8.28	15437631	5237.332	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.49	11198210	5697.308	ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090923.D Vial: 4
Acq On : 09-Sep-2009, 18:11 Operator: MD
Sample : 10000ng/ml TO-11A S21-09080901 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:58 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090923.D Vial: 4
 Acq On : 09-Sep-2009, 18:11 Operator: MD
 Sample : 10000ng/ml TO-11A S21-09080901 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:58 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

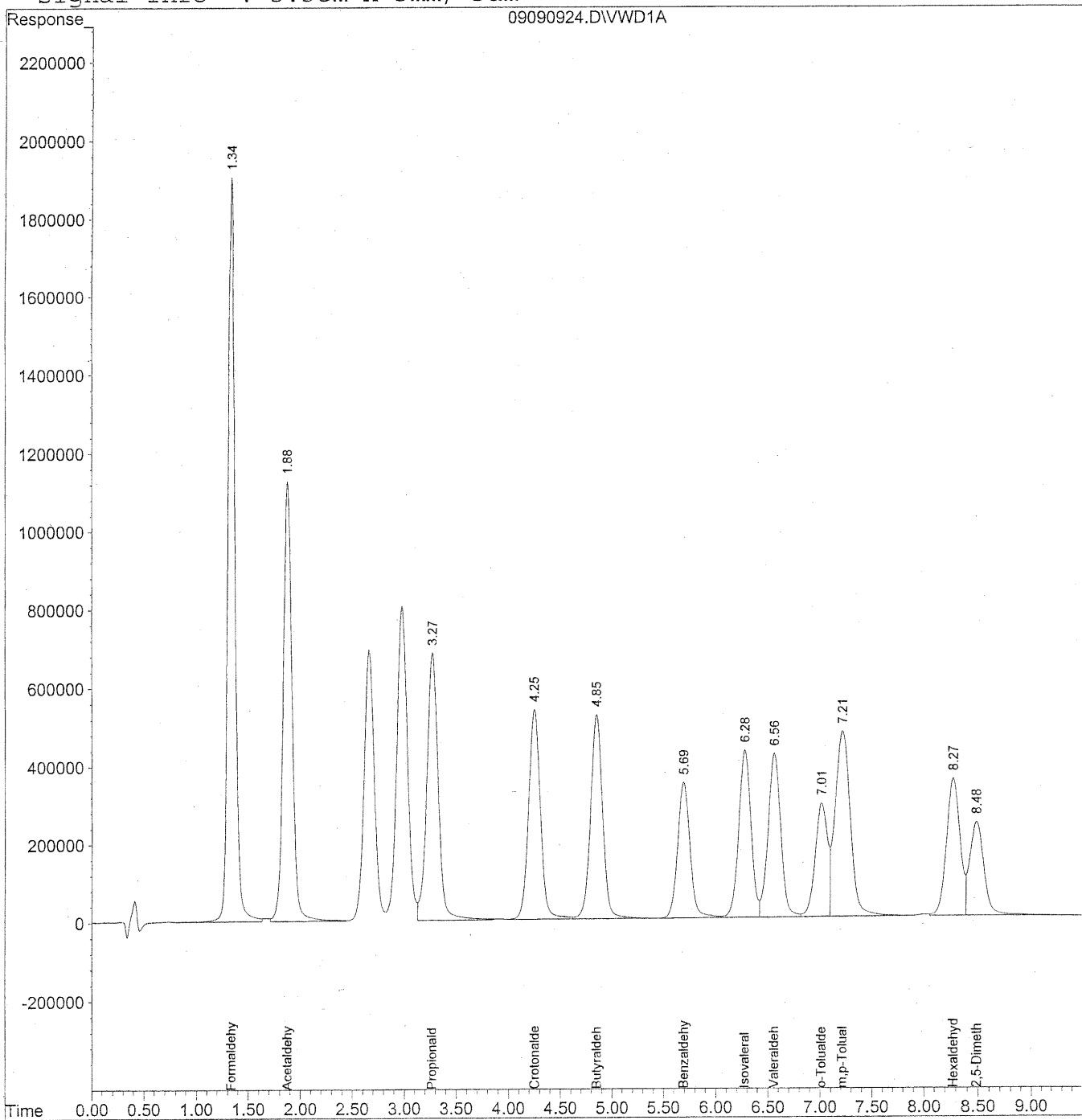
Target Compounds			
1) Formaldehyde	1.34	91542792	10238.895 ng/ml
2) Acetaldehyde	1.88	67198566	10353.832 ng/ml
3) Propionaldehyde	3.27	52731710	10187.405 ng/ml
4) Crotonaldehyde	4.25	42623472	10576.073 ng/ml
5) Butyraldehyde	4.85	42304249	10456.015 ng/ml
6) Benzaldehyde	5.69	28602353	10555.419 ng/ml
7) Isovaleraldehyde	6.28	35277028	10259.685 ng/ml
8) Valeraldehyde	6.56	35412579	10510.859 ng/ml
9) o-Tolualdehyde	7.01	23892692	11049.929 ng/ml
10) m,p-Tolualdehyde	7.21	49431359	21686.301 ng/ml
11) Hexaldehyde	8.27	30345892	10294.528 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.48	21989696	11182.144 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090924.D Vial: 4
Acq On : 09-Sep-2009, 18:23 Operator: MD
Sample : 10000ng/ml TO-11A S21-09080902 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:59 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090924.D Vial: 4
 Acq On : 09-Sep-2009, 18:23 Operator: MD
 Sample : 10000ng/ml TO-11A S21-09080902 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:59 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

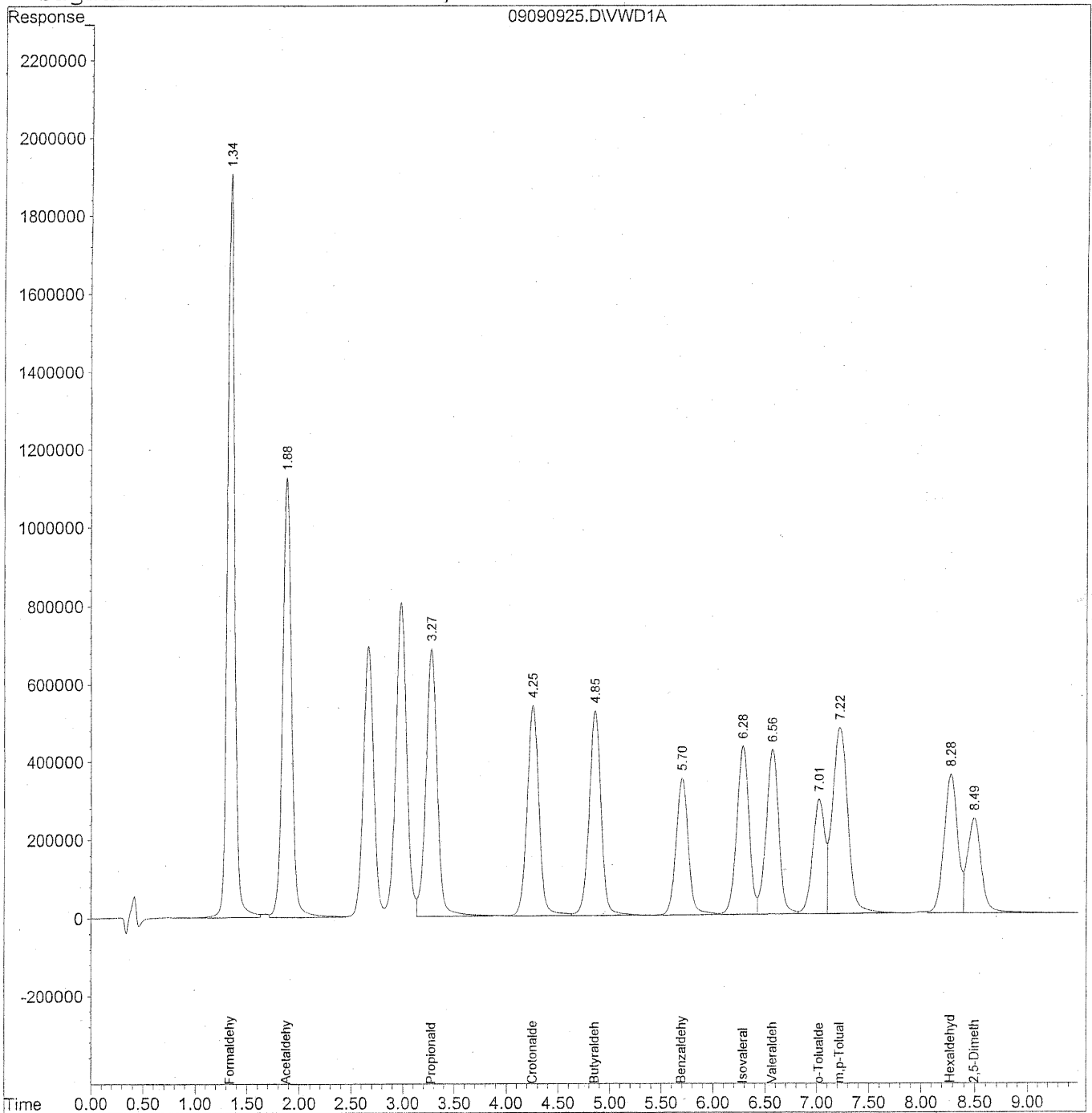
Target Compounds			
1) Formaldehyde	1.34	91301664	10216.742 ng/ml
2) Acetaldehyde	1.88	67004053	10305.740 ng/ml
3) Propionaldehyde	3.27	52551284	10108.517 ng/ml
4) Crotonaldehyde	4.25	42531897	10476.390 ng/ml
5) Butyraldehyde	4.85	42207282	10413.662 ng/ml
6) Benzaldehyde	5.69	28552063	10464.403 ng/ml
7) Isovaleraldehyde	6.28	35194712	10224.544 ng/ml
8) Valeraldehyde	6.56	35338059	10393.485 ng/ml
9) o-Tolualdehyde	7.01	23813504	10965.300 ng/ml
10) m,p-Tolualdehyde	7.21	49315533	21467.660 ng/ml
11) Hexaldehyde	8.28	30246038	10213.789 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.49	21823086	10931.999 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090925.D Vial: 4
Acq On : 09-Sep-2009, 18:34 Operator: MD
Sample : 10000ng/ml TO-11A S21-09080902 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 8:59 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\09\09090925.D Vial: 4
 Acq On : 09-Sep-2009, 18:34 Operator: MD
 Sample : 10000ng/ml TO-11A S21-09080902 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 8:59 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

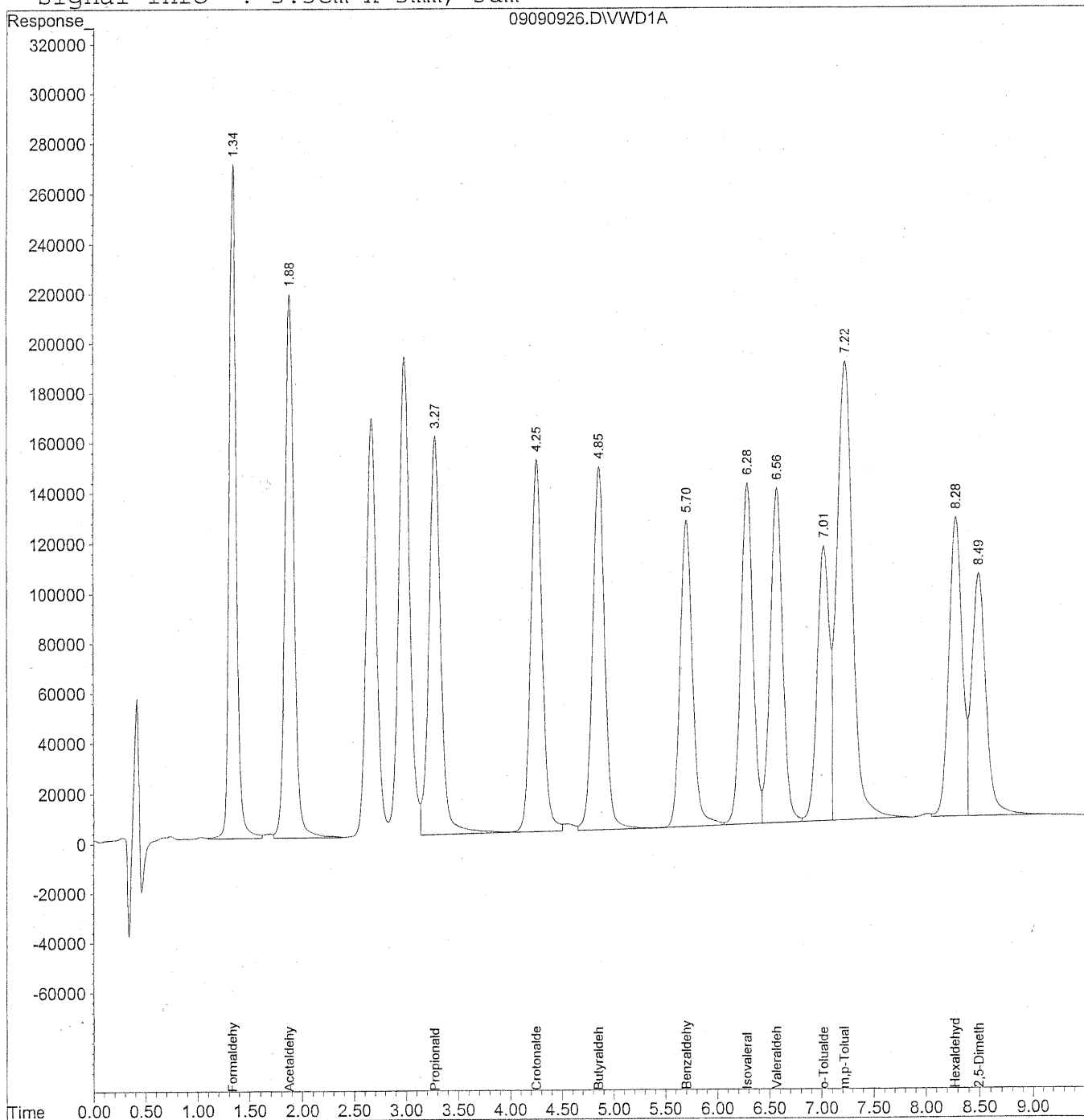
Target Compounds			
1) Formaldehyde	1.34	91595894	10251.972 ng/ml
2) Acetaldehyde	1.88	67244158	10345.249 ng/ml
3) Propionaldehyde	3.28	52752024	10150.066 ng/ml
4) Crotonaldehyde	4.25	42676337	10513.945 ng/ml
5) Butyraldehyde	4.86	42347195	10450.266 ng/ml
6) Benzaldehyde	5.70	28631645	10495.182 ng/ml
7) Isovaleraldehyde	6.28	35288997	10253.979 ng/ml
8) Valeraldehyde	6.57	35418570	10419.068 ng/ml
9) o-Tolualdehyde	7.02	23869930	10994.623 ng/ml
10) m,p-Tolualdehyde	7.22	49446486	21529.189 ng/ml
11) Hexaldehyde	8.28	30343150	10249.463 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.49	22018475	11037.553 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\09\09090926.D Vial: 3
Acq On : 09-Sep-2009, 18:46 Operator: MD
Sample : ~1500ng/ml TO-11A ICV S21-07270907 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 10 9:30 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 09 16:02:22 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



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Data File : J:\LC02\DATA\TO11A\2009_09\09\09090926.D Vial: 3
 Acq On : 09-Sep-2009, 18:46 Operator: MD
 Sample : ~1500ng/ml TO-11A ICV S21-07270907 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 10 9:30 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 09 16:02:22 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc	Units

Target Compounds				
1) Formaldehyde	1.34	12986438	1453.521	ng/ml
2) Acetaldehyde	1.88	13048264	2007.424	ng/ml
3) Propionaldehyde	3.28	12411611	2388.130	ng/ml
4) Crotonaldehyde	4.26	11686650	2879.178	ng/ml
5) Butyraldehyde	4.86	11660734	2877.588	ng/ml
6) Benzaldehyde	5.70	10075461	3693.249	ng/ml
7) Isovaleraldehyde	6.28	11105935	3227.069	ng/ml
8) Valeraldehyde	6.57	11151355	3280.390	ng/ml
9) o-Tolualdehyde	7.02	8894551	4053.169	ng/ml
10) m,p-Tolualdehyde	7.22	19279847	8394.519	ng/ml
11) Hexaldehyde	8.28	10194419	3443.522	ng/ml
12) 2,5-Dimethylbenzaldehyde	8.49	8824280	4423.488	ng/ml

CONTINUING CALIBRATION STANDARDS

COLUMBIA ANALYTICAL SERVICES

TO11A Aldehyde & Ketone DNPH Analysis by HPLC

mb
9/16/09

Instrument : LC#02
 Detector : UV-VIS 360
 Analyst : MD

Printed : 09/16/09
 Date Acquired : 09/11/09
 Sample Amount : 3ul
 Client & PAI Job# : EH & E P0903086

SAMPLE RESULT SUMMARY

Sample Information	MDL	1500ng/ml TO 11A S21- 09090903	% Diff	ACN blank lot CY331	MB-2 front 1.0ml lot 5855/5994	MB-2 back 1.0ml lot 5855/5994	P0903086-001 back 1.0ml	P0903086-002 back 1.0ml	P0903086-003 back 1.0ml
Dilution	1.0			1.0	1.0	1.0	1.0	1.0	1.0
Sample Volume (L)	NA			NA	NA	NA	NA	105.40	112.90
Final Vol.(ml)	1.0			1.0	1.0	1.0	1.0	1.0	1.0

	ng/sample	ng/sample	% Diff	ng/sample	ng/sample	ng/sample	ng/sample	ng/sample	ng/sample
Formaldehyde	100.00	1498.8	0.1%	ND	ND	ND	ND	ND	ND
Acetaldehyde	100.00	1495.1	0.3%	ND	ND	ND	ND	482.210 BT	699.775 BT
Propionaldehyde	100.00	1480.6	1.3%	ND	ND	ND	ND	ND	ND
Crotonaldehyde	100.00	1487.8	0.8%	ND	ND	ND	ND	ND	ND
Butyraldehyde	100.00	1478.6	1.4%	ND	ND	ND	ND	ND	ND
Benzaldehyde	100.00	1493.2	0.5%	ND	ND	ND	ND	ND	ND
Isovaleraldehyde	100.00	1469.6	2.0%	ND	ND	ND	ND	ND	ND
Valeraldehyde	100.00	1464.1	2.4%	ND	ND	ND	ND	ND	165.947
o-Tolualdehyde	100.00	1486.3	0.9%	ND	ND	ND	ND	ND	ND
m,p-Tolualdehyde	200.00	3020.3	0.7%	ND	ND	ND	ND	ND	ND
Hexaldehyde	100.00	1457.0	2.9%	ND	ND	ND	ND	174.868	497.563
2,5-Dimethylbenzaldehyde	100.00	1397.6	6.8%	ND	ND	ND	ND	ND	ND

	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Formaldehyde				NA	NA	NA	ND	ND	ND
Acetaldehyde				NA	NA	NA	ND	4.575	6.198
Propionaldehyde				NA	NA	NA	ND	ND	ND
Crotonaldehyde				NA	NA	NA	ND	ND	ND
Butyraldehyde				NA	NA	NA	ND	ND	ND
Benzaldehyde				NA	NA	NA	ND	ND	ND
Isovaleraldehyde				NA	NA	NA	ND	ND	ND
Valeraldehyde				NA	NA	NA	ND	ND	1.470
o-Tolualdehyde				NA	NA	NA	ND	ND	ND
m,p-Tolualdehyde				NA	NA	NA	ND	ND	ND
Hexaldehyde				NA	NA	NA	ND	1.659	4.407
2,5-Dimethylbenzaldehyde				NA	NA	NA	ND	ND	ND

	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Formaldehyde				NA	NA	NA	ND	ND	ND
Acetaldehyde				NA	NA	NA	ND	2.540	3.442
Propionaldehyde				NA	NA	NA	ND	ND	ND
Crotonaldehyde				NA	NA	NA	ND	ND	ND
Butyraldehyde				NA	NA	NA	ND	ND	ND
Benzaldehyde				NA	NA	NA	ND	ND	ND
Isovaleraldehyde				NA	NA	NA	ND	ND	ND
Valeraldehyde				NA	NA	NA	ND	ND	0.417
o-Tolualdehyde				NA	NA	NA	ND	ND	ND
m,p-Tolualdehyde				NA	NA	NA	ND	ND	ND
Hexaldehyde				NA	NA	NA	ND	0.405	1.076
2,5-Dimethylbenzaldehyde				NA	NA	NA	ND	ND	ND

COLUMBIA ANALYTICAL SERVICES

TO11A Aldehyde & Ketone DNPH Analysis by HPLC

Instrument : LC#02
 Detector : UV-VIS 360
 Analyst : MD

Printed : 09/16/09
 Date Acquired : 09/11/09
 Sample Amount : 3ul
 Client & PAI Job# : EH & E P0903086

Sample Information	MDL	P0903086-004 back 1.0ml	P0903086-005 back 1.0ml	MID CCV 1500ng/ml	% Diff	P0903086-001 front 1.0ml	P0903086-002 front 1.0ml	P0903086-003 front 1.0ml
Dilution	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Sample Volume (L)	NA	102.00	111.80	NA		NA	105.40	112.90
Final Vol.(ml)	1.0	1.0	1.0	1.0		1.0	1.0	1.0

	ng/sample	ng/sample	ng/sample	ng/sample	% Diff	ng/sample	ng/sample	ng/sample
Formaldehyde	100.00	ND	ND	1491.656	0.6%	ND	22369.030	23934.828
Acetaldehyde	100.00	551.205	BT	1482.791	1.1%	ND	2879.179	2849.939
Propionaldehyde	100.00	ND	ND	1461.389	2.6%	ND	550.211	549.757
Crotonaldehyde	100.00	ND	ND	1498.266	0.1%	ND	ND	ND
Butyraldehyde	100.00	ND	ND	1500.751	0.1%	ND	417.201	410.411
Benzaldehyde	100.00	ND	ND	1488.941	0.7%	ND	951.434	1045.169
Isovaleraldehyde	100.00	ND	ND	1468.006	2.1%	ND	353.479	309.498
Valeraldehyde	100.00	ND	ND	1444.385	3.7%	ND	1944.683	1981.479
o-Tolualdehyde	100.00	ND	ND	1526.365	1.8%	ND	ND	ND
m,p-Tolualdehyde	200.00	ND	ND	3081.010	2.7%	ND	ND	ND
Hexaldehyde	100.00	102.968	ND	1509.610	0.6%	ND	40386.225	10387.746
2,5-Dimethylbenzaldehyde	100.00	ND	ND	1617.494	7.8%	ND	ND	ND

	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Formaldehyde		ND	ND		ND	242.230		272.000
Acetaldehyde		5.404	ND		ND	27.317		25.243
Propionaldehyde		ND	ND		ND	5.220		4.869
Crotonaldehyde		ND	ND		ND	ND		ND
Butyraldehyde		ND	ND		ND	3.958		3.635
Benzaldehyde		ND	ND		ND	9.027		9.257
Isovaleraldehyde		ND	ND		ND	3.354		2.741
Valeraldehyde		ND	ND		ND	18.451		17.551
o-Tolualdehyde		ND	ND		ND	ND		ND
m,p-Tolualdehyde		ND	ND		ND	ND		ND
Hexaldehyde		1.009	ND		ND	98.541		92.008
2,5-Dimethylbenzaldehyde		ND	ND		ND	ND		ND

	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Formaldehyde		ND	ND		ND	172.865		172.678
Acetaldehyde		3.001	ND		ND	15.168		14.017
Propionaldehyde		ND	ND		ND	2.198		2.051
Crotonaldehyde		ND	ND		ND	ND		ND
Butyraldehyde		ND	ND		ND	1.343		1.233
Benzaldehyde		ND	ND		ND	2.081		2.134
Isovaleraldehyde		ND	ND		ND	0.952		0.779
Valeraldehyde		ND	ND		ND	5.240		4.984
o-Tolualdehyde		ND	ND		ND	ND		ND
m,p-Tolualdehyde		ND	ND		ND	ND		ND
Hexaldehyde		0.247	ND		ND	24.065		22.469
2,5-Dimethylbenzaldehyde		ND	ND		ND	ND		ND

COLUMBIA ANALYTICAL SERVICES

TO11A Aldehyde & Ketone DNPH Analysis by HPLC

Printed : 09/16/09

Instrument : LC#02
 Detector : UV-VIS 360
 Analyst : MD

Date Acquired : 09/11/09
 Sample Amount : 3ul
 Client & PAI Job# : EH & E P0903086

SAMPLE RESULT SUMMARY

Sample Information	MDL	P0903086-004 front 1.0ml	P0903086-005 front 1.0ml	1500ng/ml TO- 11A S21- 09090903	% Diff	P0903086- 002 front 10x dil	P0903086-003 front 10x dil	P0903086-004 front 10x dil	1500ng/ml end std	% Diff
Dilution	1.0	1.0	1.0	1.0		10.0	10.0	10.0	1.0	
Sample Volume (L)	NA	102.00	111.80	NA		105.40	112.90	102.00	NA	
Final Vol.(ml)	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	

	ng/sample	ng/sample	ng/sample	ng/sample	% Diff	ng/sample	ng/sample	ng/sample	ng/sample	% Diff
Formaldehyde	100.00	24294.325	577.696	1519.073	1.3%	22209.440	23764.490	24482.560	1540.061	2.7%
Acetaldehyde	100.00	3256.287	314.304	1511.381	0.8%	2975.160	2902.840	3321.300	1518.862	1.3%
Propionaldehyde	100.00	568.126	ND	1462.619	2.5%	ND	ND	ND	1496.117	0.3%
Crotonaldehyde	100.00	ND	ND	1523.756	1.6%	ND	ND	ND	1540.134	2.7%
Butyraldehyde	100.00	451.334	ND	1543.724	2.9%	ND	ND	ND	1563.096	4.2%
Benzaldehyde	100.00	1077.120	ND	1520.836	1.4%	ND	ND	ND	1534.304	2.3%
Isovaleraldehyde	100.00	374.790	ND	1500.762	0.1%	ND	ND	ND	1519.093	1.3%
Valeraldehyde	100.00	2103.091	ND	1467.889	2.1%	1975.310	1520.830	2017.540	1463.664	2.4%
o-Tolualdehyde	100.00	ND	ND	1498.132	0.1%	ND	ND	ND	1500.102	0.0%
m,p-Tolualdehyde	200.00	ND	ND	3050.966	1.7%	ND	ND	ND	3022.935	0.8%
Hexaldehyde	100.00	14200.055	109.247	1516.258	1.1%	10123.720	10478.380	11356.060	1416.173	5.6%
2,5-Dimethylbenzaldehyde	100.00	ND	ND	1651.199	10.1%	ND	ND	ND	1415.204	5.7%

	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Formaldehyde	238.150	5.167		210.716	210.491	240.025
Acetaldehyde	31.924	2.811		28.227	25.712	32.562
Propionaldehyde	5.570	ND		ND	ND	ND
Crotonaldehyde	ND	ND		ND	ND	ND
Butyraldehyde	4.425	ND		ND	ND	ND
Benzaldehyde	10.560	ND		ND	ND	ND
Isovaleraldehyde	3.674	ND		ND	ND	ND
Valeraldehyde	20.619	ND		18.741	13.471	19.780
o-Tolualdehyde	ND	ND		ND	ND	ND
m,p-Tolualdehyde	ND	ND		ND	ND	ND
Hexaldehyde	109.804	0.977		96.050	92.811	111.334
2,5-Dimethylbenzaldehyde	ND	ND		ND	ND	ND

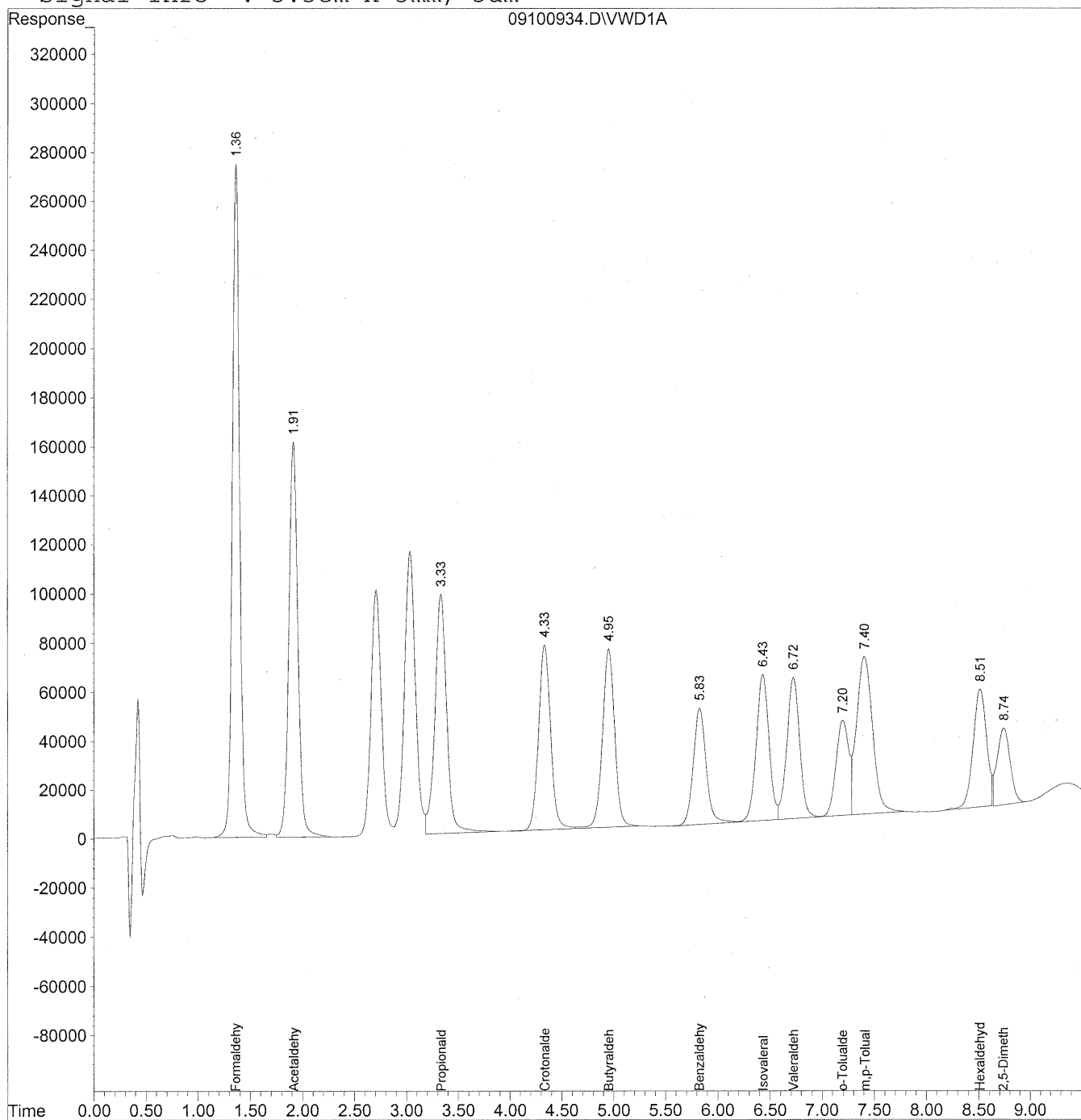
	ppb	ppb	ppb	ppb	ppb	ppb
Formaldehyde	193.978	4.209		171.632	171.449	195.505
Acetaldehyde	17.727	1.561		15.674	14.277	18.081
Propionaldehyde	2.346	ND		ND	ND	ND
Crotonaldehyde	ND	ND		ND	ND	ND
Butyraldehyde	1.501	ND		ND	ND	ND
Benzaldehyde	2.434	ND		ND	ND	ND
Isovaleraldehyde	1.043	ND		ND	ND	ND
Valeraldehyde	5.855	ND		5.322	3.826	5.617
o-Tolualdehyde	ND	ND		ND	ND	ND
m,p-Tolualdehyde	ND	ND		ND	ND	ND
Hexaldehyde	26.815	0.239		23.456	22.665	27.189
2,5-Dimethylbenzaldehyde	ND	ND		ND	ND	ND

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100934.D Vial: 10
Acq On : 11-Sep-2009, 08:19 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 11:03 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Thu Sep 10 12:03:26 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100934.D Vial: 10
 Acq On : 11-Sep-2009, 08:19 Operator: MD
 Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 11:03 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Thu Sep 10 12:03:26 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

MD
9/16/09
HC
9/17/09

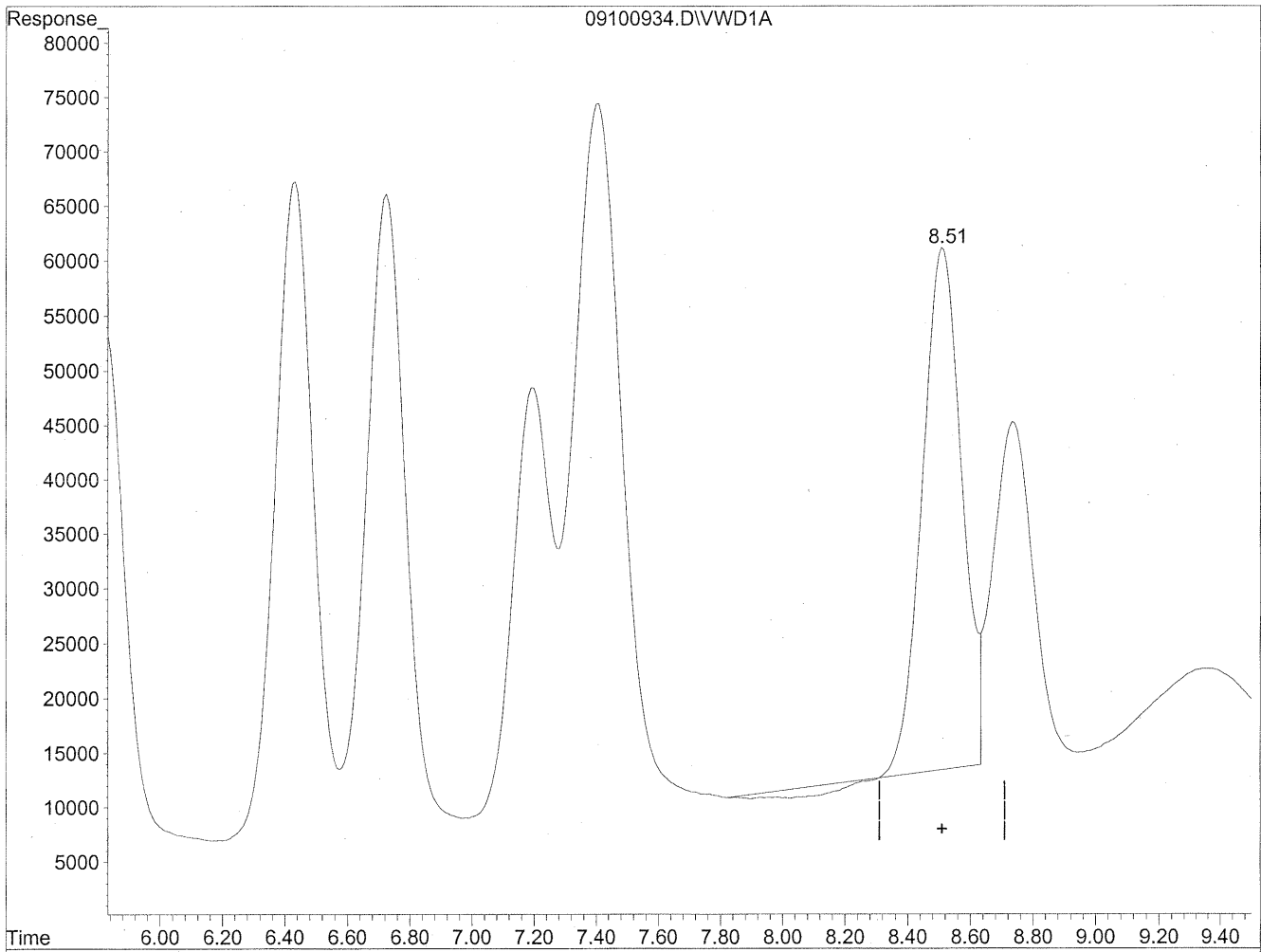
Compound	R.T.	Response	Conc	Units

Target Compounds				
1) Formaldehyde	1.36	13392690	1498.830	ng/ml
2) Acetaldehyde	1.92	9719094	1495.062	ng/ml
3) Propionaldehyde	3.33	7695858	1480.592	ng/ml
4) Crotonaldehyde	4.34	6039973	1487.835	ng/ml
5) Butyraldehyde	4.95	5992226	1478.552	ng/ml
6) Benzaldehyde	5.83	4074146	1493.249	ng/ml
7) Isovaleraldehyde	6.43	5058009	1469.588	ng/ml
8) Valeraldehyde	6.73	4977278	1464.060	ng/ml
9) o-Tolualdehyde	7.20	3261709	1486.269	ng/ml
10) m,p-Tolualdehyde	7.41	6937334	3020.275	ng/ml
11) Hexaldehyde	8.51	4313852	1457.026	ng/mlm
12) 2,5-Dimethylbenzaldehyde	8.74	2788980	1397.640	ng/mlm

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100934.D Vial: 10
Acq On : 11-Sep-2009, 08:19 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 11 8:29 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Tue Sep 15 09:56:03 2009
Response via : Multiple Level Calibration

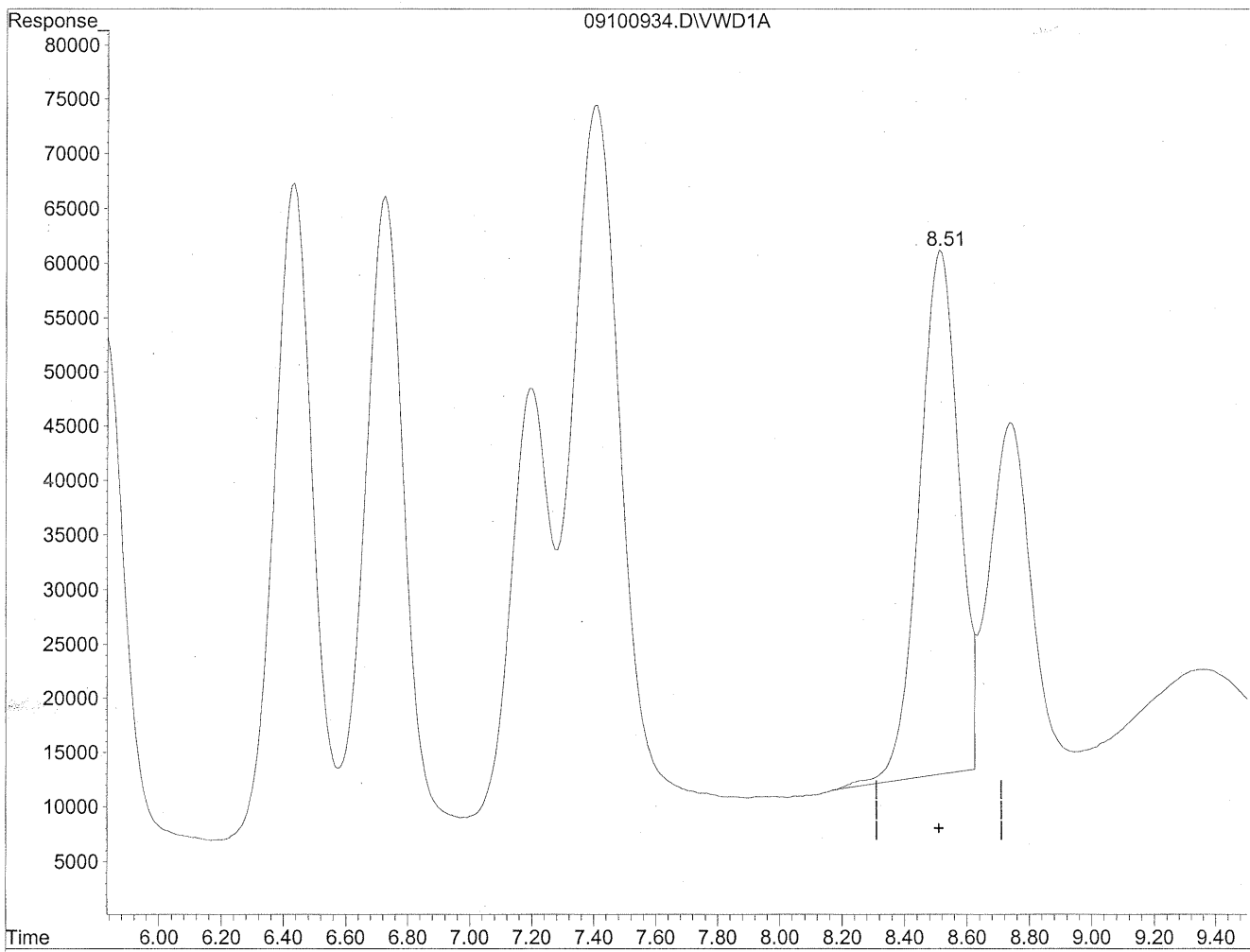


(11) Hexaldehyde
8.51min 1357.686ng/ml
response 4019734

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100934.D Vial: 10
Acq On : 11-Sep-2009, 08:19 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 11 8:29 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Tue Sep 15 09:56:03 2009
Response via : Multiple Level Calibration



(11) Hexaldehyde

8.51min 1457.026ng/ml m

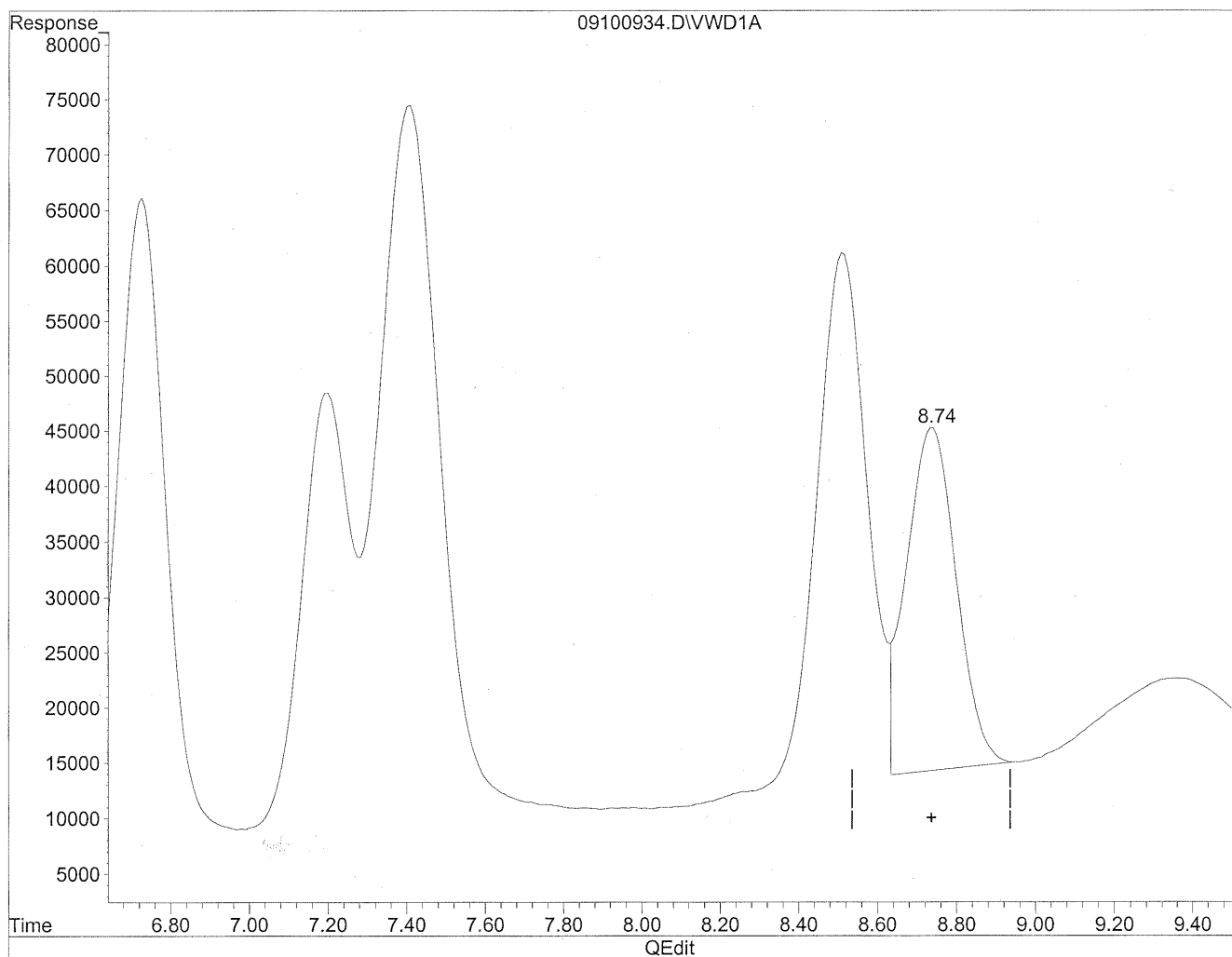
response 4313852

MD
9/16/09
BC
JK
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100934.D Vial: 10
Acq On : 11-Sep-2009, 08:19 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 11 8:29 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Tue Sep 15 09:56:03 2009
Response via : Multiple Level Calibration



(12) 2,5-Dimethylbenzaldehyde

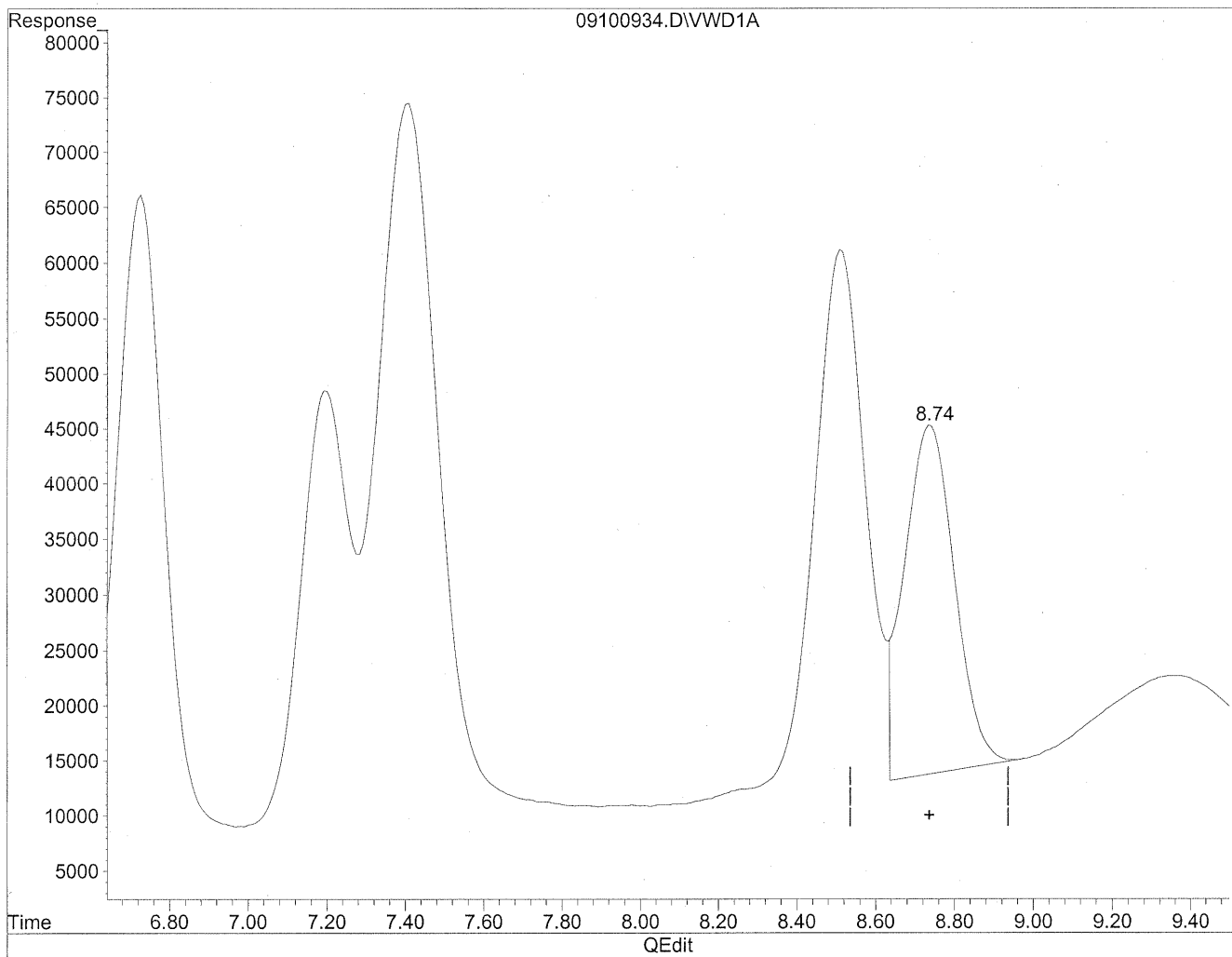
8.74min 1376.566ng/ml

response 2746926

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100934.D Vial: 10
Acq On : 11-Sep-2009, 08:19 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 11 8:29 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Tue Sep 15 09:56:03 2009
Response via : Multiple Level Calibration



(12) 2,5-Dimethylbenzaldehyde
8.74min 1397.640ng/ml m
response 2788980

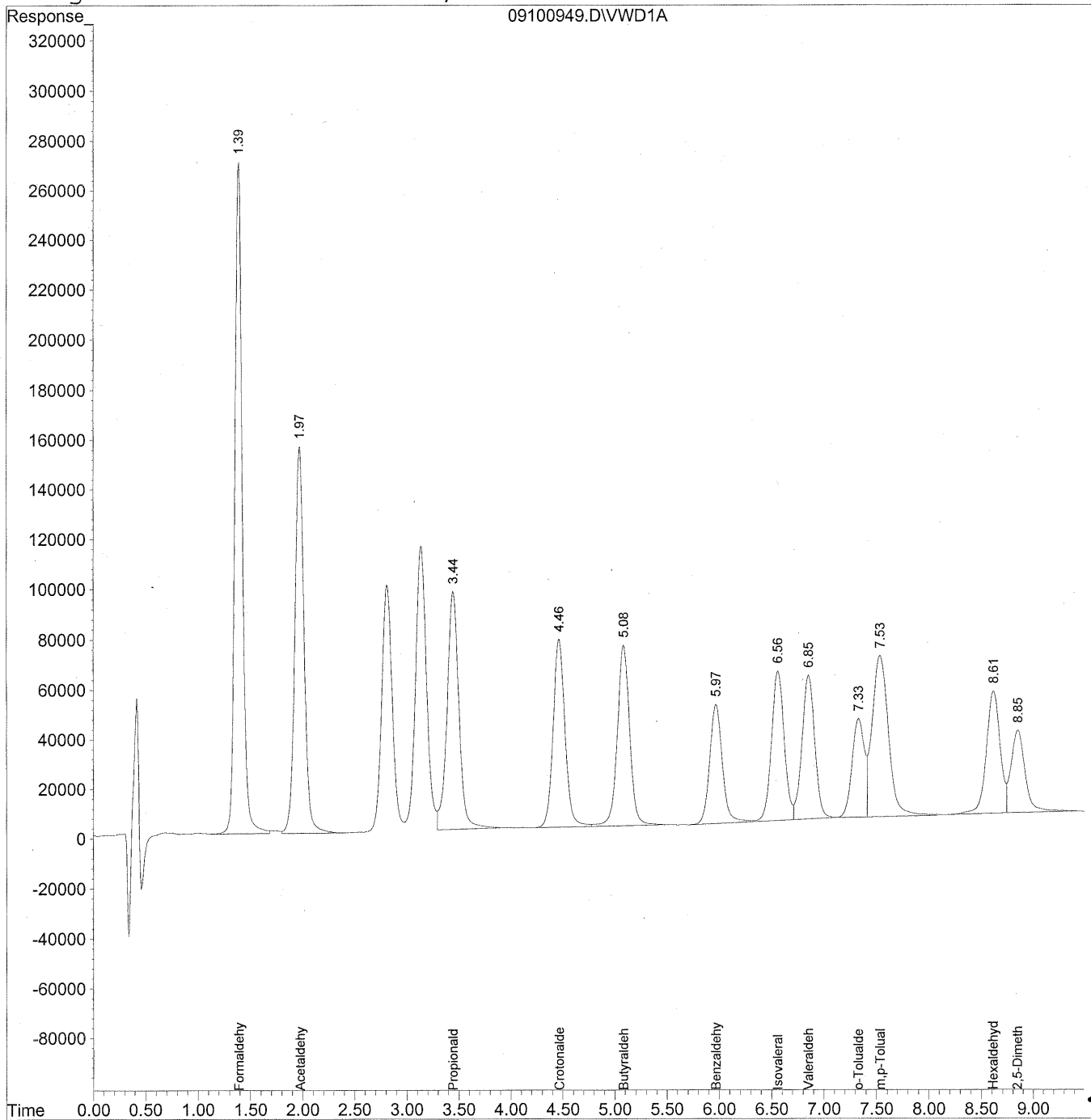
Handwritten notes:
m
9/16/09
12
to
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100949.D Vial: 10
Acq On : 11-Sep-2009, 11:18 Operator: MD
Sample : MID CCV 1500ng/ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:34 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100949.D Vial: 10
 Acq On : 11-Sep-2009, 11:18 Operator: MD
 Sample : MID CCV 1500ng/ml Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 16 13:34 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Wed Sep 16 13:33:30 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

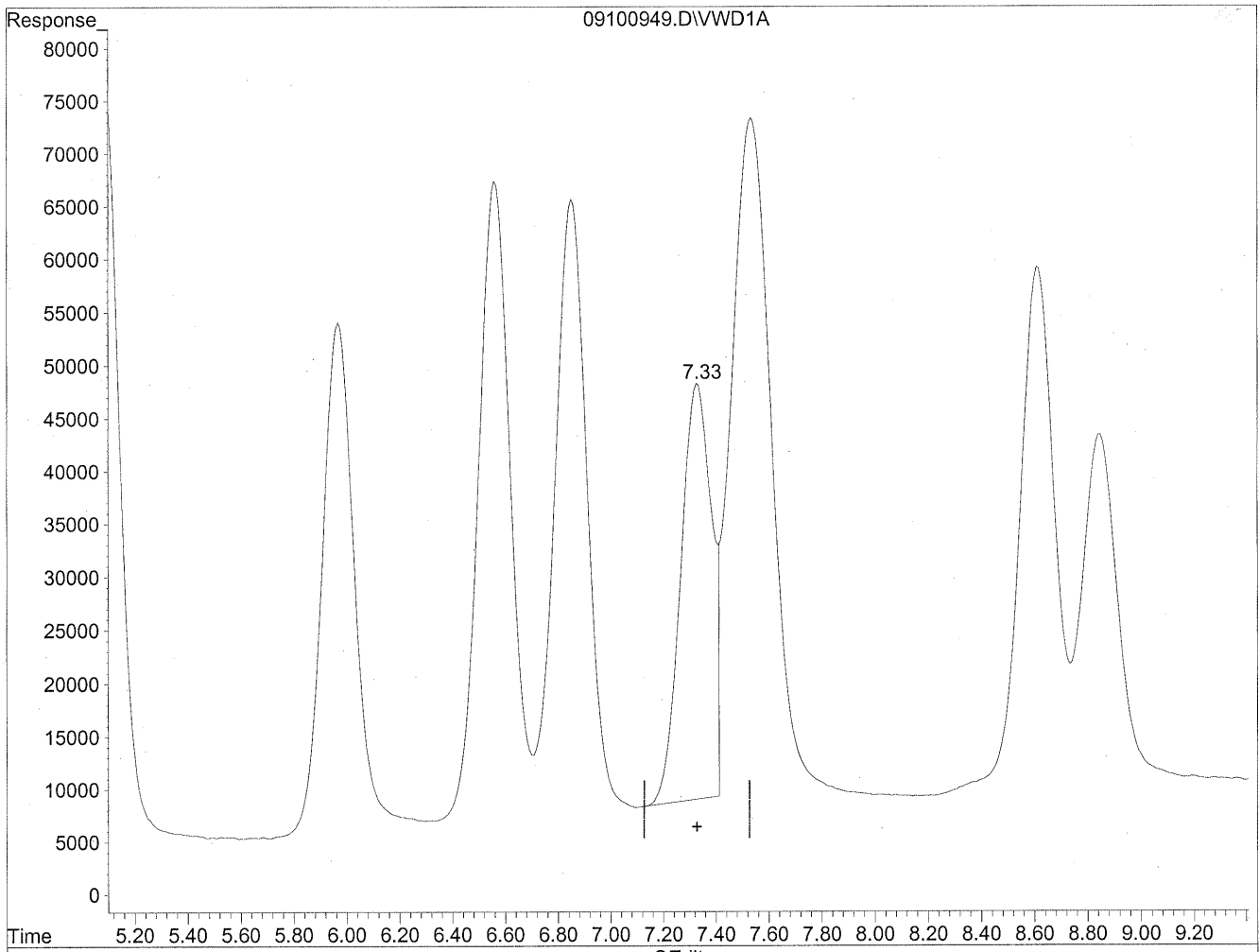
Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.39	13328585	1491.656 ng/ml
2) Acetaldehyde	1.97	9639327	1482.791 ng/ml
3) Propionaldehyde	3.45	7596041	1461.389 ng/ml
4) Crotonaldehyde	4.47	6082316	1498.266 ng/ml
5) Butyraldehyde	5.09	6082197	1500.751 ng/ml
6) Benzaldehyde	5.97	4062393	1488.941 ng/ml
7) Isovaleraldehyde	6.56	5052567	1468.006 ng/ml
8) Valeraldehyde	6.85	4910390	1444.385 ng/ml
9) o-Tolualdehyde	7.33	3349701	1526.365 ng/mlm
10) m,p-Tolualdehyde	7.53	7076837	3081.010 ng/mlm
11) Hexaldehyde	8.62	4469539	1509.610 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.85	3227696	1617.494 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100949.D Vial: 10
Acq On : 11-Sep-2009, 11:18 Operator: MD
Sample : MID CCV 1500ng/ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:34 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration

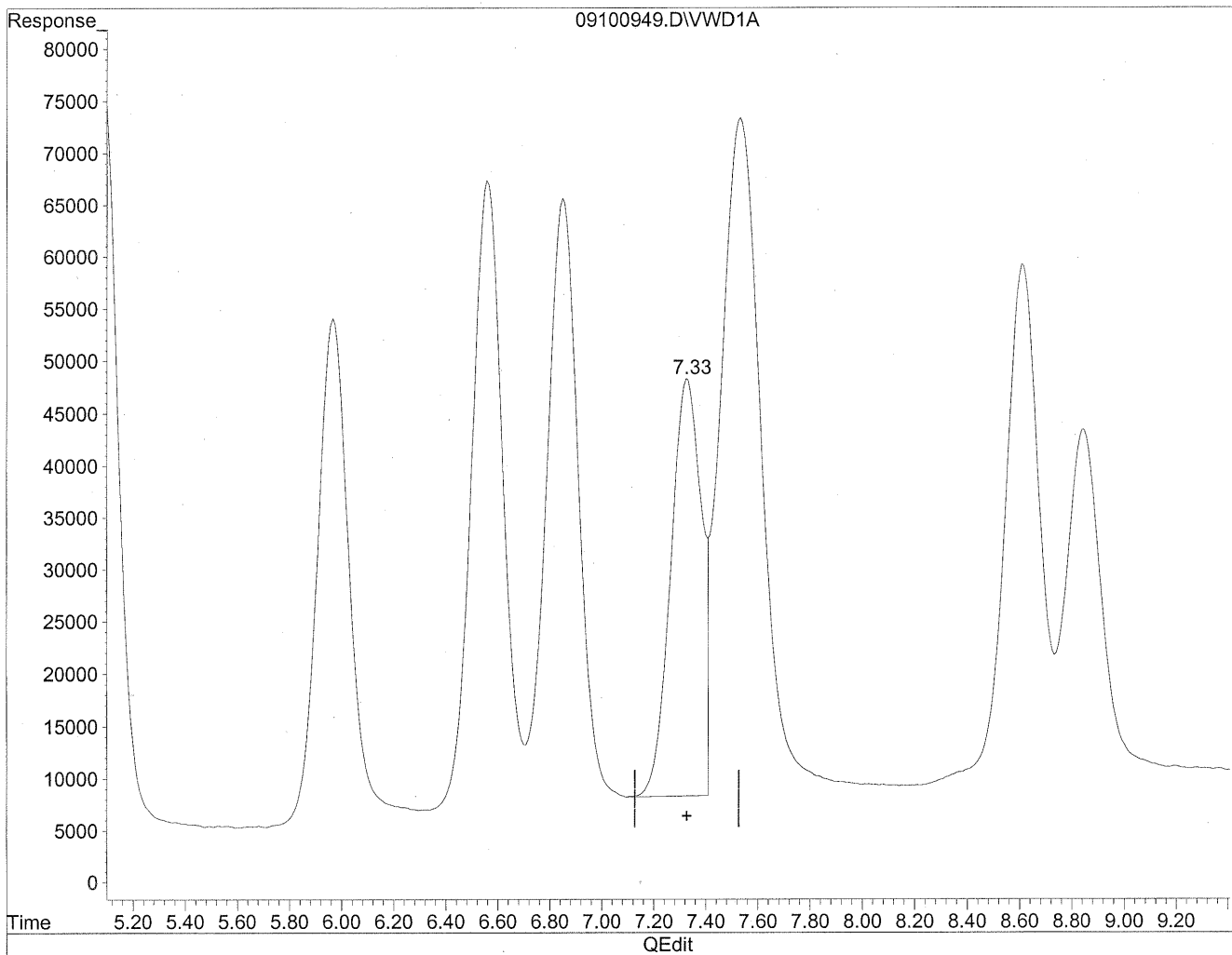


(9) o-Tolualdehyde
7.33min 1444.002ng/ml
response 3168952

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100949.D Vial: 10
Acq On : 11-Sep-2009, 11:18 Operator: MD
Sample : MID CCV 1500ng/ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:34 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



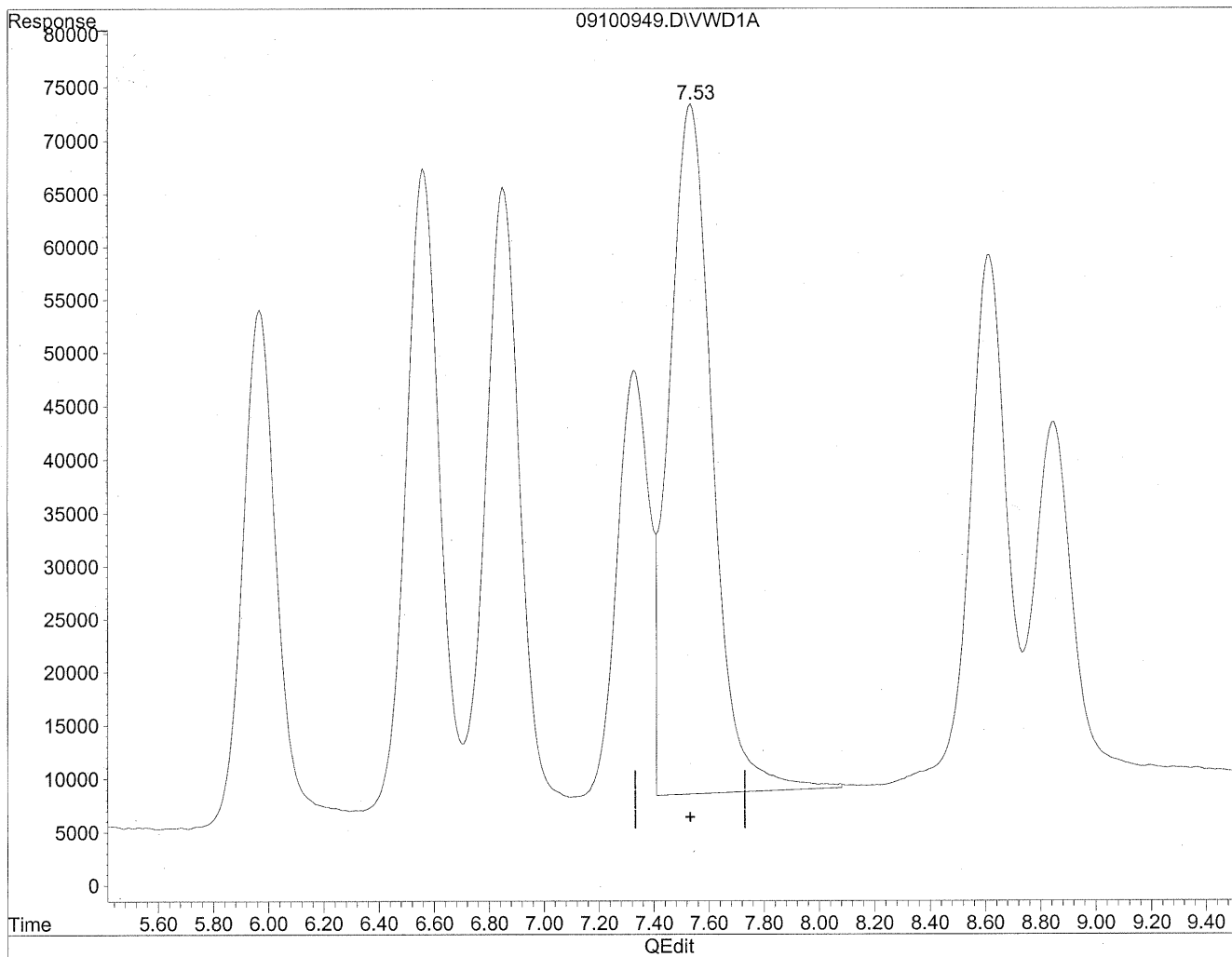
(9) o-Tolualdehyde
7.33min 1526.365ng/ml m
response 3349701

MD
9/16/09
pc
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100949.D Vial: 10
Acq On : 11-Sep-2009, 11:18 Operator: MD
Sample : MID CCV 1500ng/ml Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 16 13:34 19109 Quant Results File: TO110909.RES

Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Wed Sep 16 13:33:30 2009
Response via : Multiple Level Calibration



(10) m,p-Tolualdehyde
7.53min 3081.010ng/ml m
response 7076837

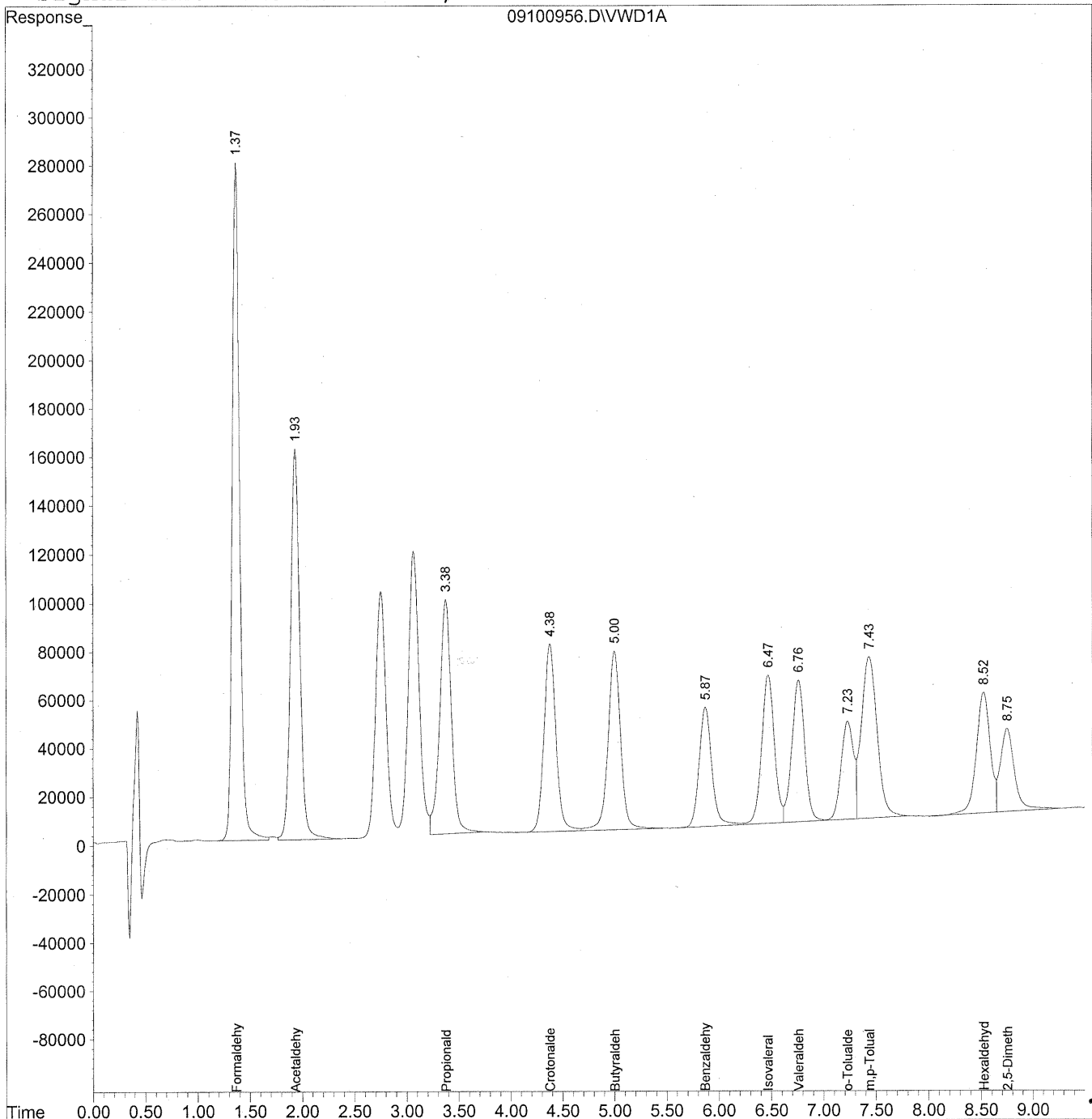
Handwritten notes:
mk
9/16/09
pc,
(no before)
HC
9/17/09

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100956.D Vial: 10
Acq On : 11-Sep-2009, 12:41 Operator: MD
Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 11 13:11 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Thu Sep 10 12:03:26 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100956.D Vial: 10
 Acq On : 11-Sep-2009, 12:41 Operator: MD
 Sample : 1500ng/ml TO-11A S21-09090903 Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 11 13:11 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Thu Sep 10 12:03:26 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

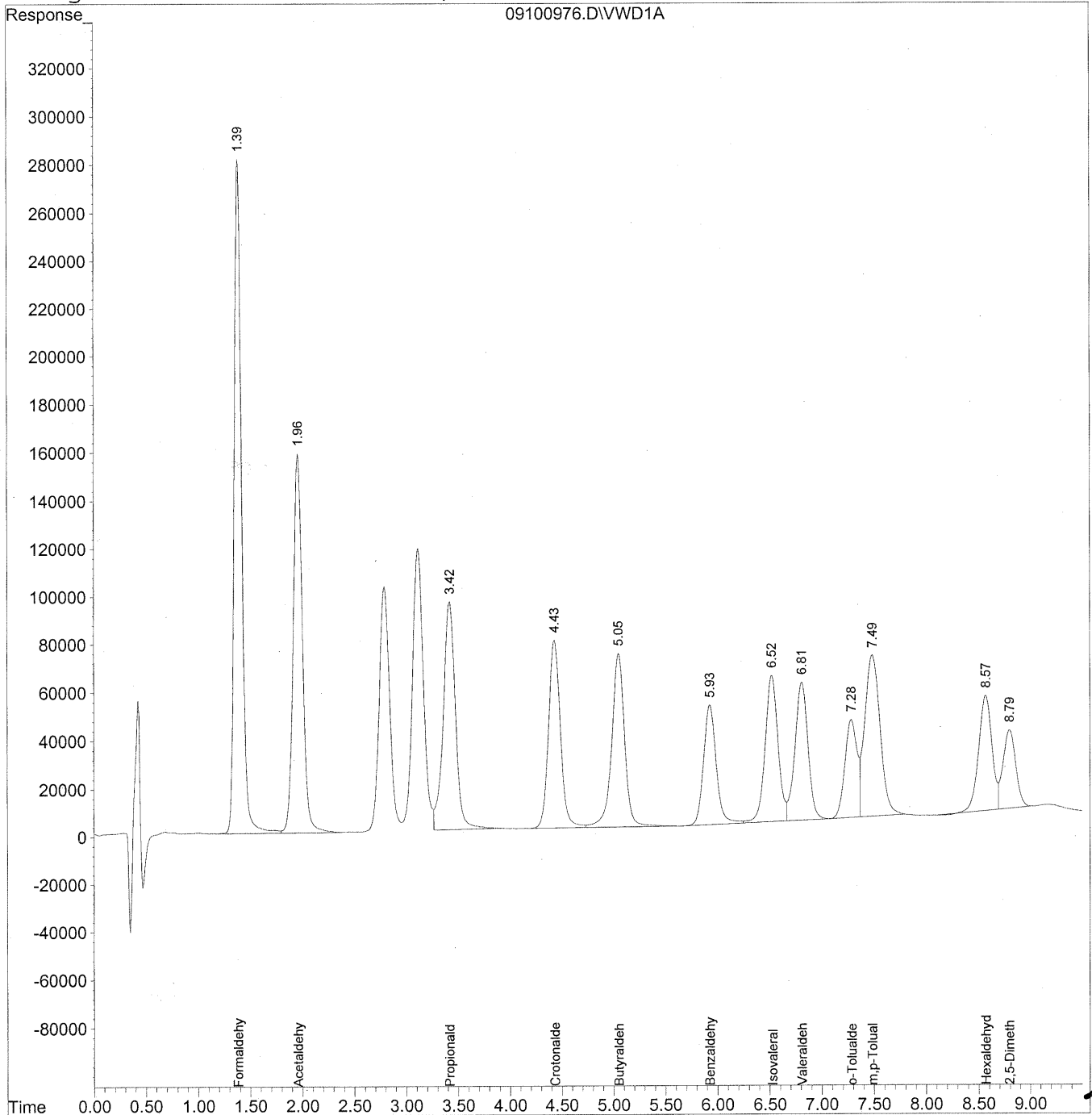
Target Compounds			
1) Formaldehyde	1.37	13573576	1519.073 ng/ml
2) Acetaldehyde	1.94	9825181	1511.381 ng/ml
3) Propionaldehyde	3.38	7602438	1462.619 ng/ml
4) Crotonaldehyde	4.38	6185797	1523.756 ng/ml
5) Butyraldehyde	5.00	6256357	1543.724 ng/ml
6) Benzaldehyde	5.87	4149415	1520.836 ng/ml
7) Isovaleraldehyde	6.47	5165303	1500.762 ng/ml
8) Valeraldehyde	6.76	4990293	1467.889 ng/ml
9) o-Tolualdehyde	7.23	3287743	1498.132 ng/ml
10) m,p-Tolualdehyde	7.44	7007829	3050.966 ng/ml
11) Hexaldehyde	8.53	4489221	1516.258 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.75	3294954	1651.199 ng/ml

Quantitation Report

Data File : J:\LC02\DATA\TO11A\2009_09\10\09100976.D Vial: 10
Acq On : 11-Sep-2009, 16:38 Operator: MD
Sample : 1500ng/ml end std Inst : VWD
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 15 9:00 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
Title : LC-1050 TO-11A ICAL
Last Update : Tue Sep 15 08:58:18 2009
Response via : Multiple Level Calibration
DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
Signal Phase : Supelcosil LC-18
Signal Info : 3.3cm x 3mm, 3um



Data File : J:\LC02\DATA\TO11A\2009_09\10\09100976.D Vial: 10
 Acq On : 11-Sep-2009, 16:38 Operator: MD
 Sample : 1500ng/ml end std Inst : VWD
 Misc : Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 15 9:00 19109 Quant Results File: TO110909.RES

Quant Method : J:\LC02\METHODS\TO110909.M (Chemstation Integrator)
 Title : LC-1050 TO-11A ICAL
 Last Update : Tue Sep 15 08:58:18 2009
 Response via : Initial Calibration
 DataAcq Meth : TO-11A.M

Volume Inj. : 3uL
 Signal Phase : Supelcosil LC-18
 Signal Info : 3.3cm x 3mm, 3um

Compound	R.T.	Response	Conc Units

Target Compounds			
1) Formaldehyde	1.39	13761107	1540.061 ng/ml
2) Acetaldehyde	1.96	9873812	1518.862 ng/ml
3) Propionaldehyde	3.42	7776551	1496.117 ng/ml
4) Crotonaldehyde	4.43	6252281	1540.134 ng/ml
5) Butyraldehyde	5.05	6334866	1563.096 ng/ml
6) Benzaldehyde	5.93	4186161	1534.304 ng/ml
7) Isovaleraldehyde	6.52	5228395	1519.093 ng/ml
8) Valeraldehyde	6.81	4975930	1463.664 ng/ml
9) o-Tolualdehyde	7.29	3292066	1500.102 ng/ml
10) m,p-Tolualdehyde	7.49	6943445	3022.935 ng/ml
11) Hexaldehyde	8.57	4192897	1416.173 ng/ml
12) 2,5-Dimethylbenzaldehyde	8.80	2824028	1415.204 ng/ml

RUN LOGS

Injection Log

Directory: j:\lc02\data\to11a\2009_09\09

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
		09090901.d	1.			
		09090902.d	1.			
	102	09090903.d	1.	TO11 STD TEST		09-Sep-09, 12:4
	102	09090904.d	1.	TO11 STD TEST		09-Sep-09, 12:5
	10	09090905.d	1.	TO11 STD TEST		09-Sep-09, 26:1
	10	09090906.d	1.	TO11 STD TEST		09-Sep-09, 26:3
	10	09090907.d	1.	ACN BLANK Lot CY331		09-Sep-09, 27:0
	9	09090908.d	1.	50ng/ml TO-11A S21-09080905		09-Sep-09, 27:2
	9	09090909.d	1.	50ng/ml TO-11A S21-09080905		09-Sep-09, 27:3
0	9	09090910.d	1.	50ng/ml TO-11A S21-09080905		09-Sep-09, 27:4
1	8	09090911.d	1.	100ng/ml TO-11A S21-09080904		09-Sep-09, 27:5
2	8	09090912.d	1.	100ng/ml TO-11A S21-09080904		09-Sep-09, 28:0
3	8	09090913.d	1.	100ng/ml TO-11A S21-09080904		09-Sep-09, 28:1
4	7	09090914.d	1.	500ng/ml TO-11A S21-09080903		09-Sep-09, 28:2
5	7	09090915.d	1.	500ng/ml TO-11A S21-09080903		09-Sep-09, 28:4
6	7	09090916.d	1.	500ng/ml TO-11A S21-09080903		09-Sep-09, 28:5
7	6	09090917.d	1.	1500ng/ml TO-11A S21-09090903		09-Sep-09, 29:0
8	6	09090918.d	1.	1500ng/ml TO-11A S21-09090903		09-Sep-09, 29:1
9	6	09090919.d	1.	1500ng/ml TO-11A S21-09090903		09-Sep-09, 29:2
10	5	09090920.d	1.	5000ng/ml TO-11A S21-09080902		09-Sep-09, 29:3
11	5	09090921.d	1.	5000ng/ml TO-11A S21-09080902		09-Sep-09, 29:4
12	5	09090922.d	1.	5000ng/ml TO-11A S21-09080902		09-Sep-09, 30:0
13	4	09090923.d	1.	10000ng/ml TO-11A S21-09080901		09-Sep-09, 30:1
14	4	09090924.d	1.	10000ng/ml TO-11A S21-09080902		09-Sep-09, 30:2
15	4	09090925.d	1.	10000ng/ml TO-11A S21-09080902		09-Sep-09, 30:3
16	3	09090926.d	1.	~1500ng/ml TO-11A ICV S21-07270907		09-Sep-09, 30:4
17	3	09090927.d	1.	~1500ng/ml TO-11A ICV S21-07270907		09-Sep-09, 30:5
18	3	09090928.d	1.	~1500ng/ml TO-11A ICV S21-07270907		09-Sep-09, 31:0

> injected ICV 3x
 by mistake (mk)
 9/10/09

Injection Log

Directory: j:\lc02\data\to11a\2009_09\10

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	09100901.d	1.	prime		10-Sep-09, 23:2
2	5	09100902.d	1.	prime		10-Sep-09, 23:3
3	5	09100903.d	1.	1500ng/ml TO-11A S21-09090903		10-Sep-09, 23:4
4	10	09100904.d	1.	ACN blank lot CY331		10-Sep-09, 23:5
5	9	09100905.d	1.	MB front 1.0ml lot 5855/5994		10-Sep-09, 12:0
6	8	09100906.d	1.	MB back 1.0ml lot 5855/5994		10-Sep-09, 12:2
7	7	09100907.d	1.	P0903083-001 back 1.0ml		10-Sep-09, 12:3
8	6	09100908.d	1.	P0903083-002 back 1.0ml		10-Sep-09, 12:4
9	5	09100909.d	1.	P0903083-003 back 1.0ml		10-Sep-09, 12:5
10	4	09100910.d	1.	P0903083-004 back 1.0ml		10-Sep-09, 25:0
11	3	09100911.d	1.	P0903083-005 back 1.0ml		10-Sep-09, 25:1
12	2	09100912.d	1.	P0903083-006 back 1.0ml		10-Sep-09, 25:2
13	101	09100913.d	1.	P0903083-001 front 1.0ml		10-Sep-09, 25:4
14	102	09100914.d	1.	P0903083-002 front 1.0ml		10-Sep-09, 25:5
15	103	09100915.d	1.	P0903083-003 front 1.0ml		10-Sep-09, 26:0
16	104	09100916.d	1.	P0903083-004 front 1.0ml		10-Sep-09, 26:1
17	10	09100917.d	1.	MID CCV 1500ng/ml		10-Sep-09, 26:2
18	105	09100918.d	1.	P0903083-005 front 1.0ml		10-Sep-09, 26:4
19	106	09100919.d	1.	P0903083-006 front 1.0ml		10-Sep-09, 26:5
20	11	09100920.d	1.	ACN blank		10-Sep-09, 27:0
21	11	09100921.d	1.	ACN blank		10-Sep-09, 27:1
22	10	09100922.d	1.	MID CCV 1500ng/ml		10-Sep-09, 27:2
23	105	09100923.d	1.	P0903083-005 front 1.0ml		10-Sep-09, 27:3
24	106	09100924.d	1.	P0903083-006 front 1.0ml		10-Sep-09, 27:5
25	107	09100925.d	1.	P0903085-001 back 1.0ml		10-Sep-09, 28:0
26	108	09100926.d	1.	P0903085-002 back 1.0ml		10-Sep-09, 28:1
27	109	09100927.d	1.	P0903085-003 back 1.0ml		10-Sep-09, 28:2
28	110	09100928.d	1.	P0903085-004 back 1.0ml		10-Sep-09, 28:4
29	111	09100929.d	1.	P0903085-005 back 1.0ml		10-Sep-09, 28:5
30	112	09100930.d	1.	P0903085-006 back 1.0ml		10-Sep-09, 29:0
31	113	09100931.d	1.	P0903085-001 front 1.0ml		10-Sep-09, 29:1
32	114	09100932.d	1.	P0903085-002 front 1.0ml		11-Sep-09, 19:5
33	10	09100933.d	1.	1500ng/ml TO-11A S21-09090903 <i>- not used</i>		11-Sep-09, 20:0
34	10	09100934.d	1.	1500ng/ml TO-11A S21-09090903		11-Sep-09, 20:1
35	11	09100935.d	1.	ACN blank lot CY331		11-Sep-09, 20:3
36	115	09100936.d	1.	MB-2 front 1.0ml lot 5855/5994		11-Sep-09, 20:4
37	116	09100937.d	1.	MB-2 back 1.0ml lot 5855/5994		11-Sep-09, 20:5
38	117	09100938.d	1.	P0903085-003 front 1.0ml		11-Sep-09, 21:0
39	118	09100939.d	1.	P0903085-004 front 1.0ml		11-Sep-09, 21:1
40	119	09100940.d	1.	P0903085-005 front 1.0ml		11-Sep-09, 21:3
41	120	09100941.d	1.	P0903085-006 front 1.0ml		11-Sep-09, 21:4
42	121	09100942.d	1.	P0903086-001 back 1.0ml		11-Sep-09, 21:5
43	122	09100943.d	1.	P0903086-002 back 1.0ml		11-Sep-09, 22:0
44	123	09100944.d	1.	P0903086-003 back 1.0ml		11-Sep-09, 22:1
45	124	09100945.d	1.	P0903086-004 back 1.0ml		11-Sep-09, 22:3
46	125	09100946.d	1.	P0903086-005 back 1.0ml		11-Sep-09, 22:4
47	120	09100947.d	1.	P0903085-006 front 1.0ml		11-Sep-09, 22:5
48	10	09100948.d	1.	MID CCV 1500ng/ml <i>- Not used</i>		11-Sep-09, 23:0
49	10	09100949.d	1.	MID CCV 1500ng/ml		11-Sep-09, 23:1
50	126	09100950.d	1.	P0903086-001 front 1.0ml		11-Sep-09, 23:3
51	127	09100951.d	1.	P0903086-002 front 1.0ml		11-Sep-09, 23:4
52	128	09100952.d	1.	P0903086-003 front 1.0ml		11-Sep-09, 23:5
53	129	09100953.d	1.	P0903086-004 front 1.0ml		11-Sep-09, 12:0
54	130	09100954.d	1.	P0903086-005 front 1.0ml		11-Sep-09, 12:1
55	11	09100955.d	1.	acn blank		11-Sep-09, 12:3
56	10	09100956.d	1.	1500ng/ml TO-11A S21-09090903		11-Sep-09, 12:4
57	11	09100957.d	1.	ACN blank lot CY331		11-Sep-09, 12:5

Injection Log

Directory: j:\lc02\data\to11a\2009_09\10

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
58	131	09100958.d	1.	MB-3 front 1.0ml lot 5855/5994		11-Sep-09, 25:0
59	132	09100959.d	1.	MB-3 back 1.0ml lot 5855/5994		11-Sep-09, 25:1
60	133	09100960.d	1.	P0903011-001 back 1.0ml		11-Sep-09, 25:2
61	134	09100961.d	1.	P0903011-002 back 1.0ml		11-Sep-09, 25:4
62	135	09100962.d	1.	P0903011-003 back 1.0ml		11-Sep-09, 25:5
63	136	09100963.d	1.	P0903011-004 back 1.0ml		11-Sep-09, 26:0
64	137	09100964.d	1.	P0903011-005 back 1.0ml		11-Sep-09, 26:1
65	138	09100965.d	1.	P0903011-006 back 1.0ml		11-Sep-09, 26:2
66	139	09100966.d	1.	P0903011-007 back 1.0ml		11-Sep-09, 26:4
67	140	09100967.d	1.	P0903011-008 back 1.0ml		11-Sep-09, 26:5
68	141	09100968.d	1.	P0903011-009 back 1.0ml		11-Sep-09, 27:0
69	142	09100969.d	1.	P0903011-010 back 1.0ml		11-Sep-09, 27:1
70	10	09100970.d	1.	MID CCV 1500ng/ml		11-Sep-09, 27:2
71	143	09100971.d	1.	P0903011-011 back 1.0ml		11-Sep-09, 27:4
72	144	09100972.d	1.	P0903011-012 back 1.0ml		11-Sep-09, 27:5
73	9	09100973.d	1.	P0903086-002 front 10x dil		11-Sep-09, 28:0
74	8	09100974.d	1.	P0903086-003 front 10x dil		11-Sep-09, 28:1
75	7	09100975.d	1.	P0903086-004 front 10x dil		11-Sep-09, 28:2
76	10	09100976.d	1.	1500ng/ml end std		11-Sep-09, 28:3