

TRC Environmental Corporation

9225 US Hwy 183 S
Austin, TX 78747

ExxonMobil SRU
Project # 184380
PO # 35367

Analytical Report
(0611-102)

EPA SW-846 Method 0011
Acetaldehyde, Formaldehyde, and Propionaldehyde



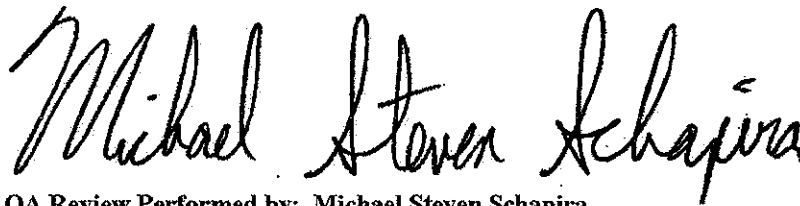
Enthalpy Analytical, Inc.

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2202 Ellis Road Durham, NC 27703 - 5518

I certify that to the best of my knowledge all analytical data presented in this report:

- Have been checked for completeness
- Are accurate, error-free, and legible
- Have been conducted in accordance with approved protocol, and that all deviations and analytical problems are summarized in the appropriate narrative(s)

This analytical report was prepared in Portable Document Format (.PDF) and contains 81 pages.



QA Review Performed by: Michael Steven Schapira

Report Issued: 8/4/11



Summary of Results



Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

Compound	Sample ID / Catch Weight (ug)		
	M0011-R1-FHR	M0011-R2-FHR	M0011-R3-FHR
Formaldehyde	50.8	75.2	18.7 J
Acetaldehyde	205	222	450
Propionaldehyde	0.667 ND	0.829 ND	1.175 ND
	M0011-Spike	M0011-DNPH RgtBlk	M0011-MeCl2 RgtBlk
Formaldehyde	29.7	3.90 J	0.602 ND
Acetaldehyde	0.623 ND	0.633 ND	0.995 ND
Propionaldehyde	0.614 ND	0.624 ND	0.981 ND

Results



Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

MDL 0.00271 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Formaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Aliquot Factor	Vol (mL)	Catch Weight (ug)	Qual
M0011-R1-FHR	041-0401.D	HPLC54PG120ICR.M	4.99	0.168	1	2	151	50.8	
M0011-R1-FHR	041-0501.D	HPLC54PG120ICR.M	4.98	0.165	1	2	151	49.8	
								difference	1.9%

Dup/M0011-R1-FHR	042-0601.D	HPLC54PG120ICR.M	4.98	0.147	1	2	158	46.3	
								difference	8.8%

M0011-R2-FHR	043-0701.D	HPLC54PG120ICR.M	4.98	0.201	1	2	187	75.2	
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M0011-R3-FHR	044-0801.D	HPLC54PG120ICR.M	4.97	0.0704	1	1	266	18.7	J
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M0011-Spike	045-0901.D	HPLC54PG120ICR.M	4.97	0.213	1	1	139	29.7	
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M0011-DNPH RgtBlk	046-1001.D	HPLC54PG120ICR.M	4.98	0.0276	1	1	141	3.90	J
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M0011-MeCl2 RgtBlk	047-1101.D	HPLC54PG120ICR.M	NA	0.00271	1	1	222	0.602	ND
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MB-1	063-3101.D	HPLC54PG120ICR.M	NA	0.00271	1	1	132	0.358	ND
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MB-2	018-1001.D	HPLC54PG120ICR.M	NA	0.00271	1	1	139	0.376	ND
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RB/100% ACN	008-0901.D	HPLC54PG120.M	NA	0.00271	1	1	1	0.00271	ND
RB/100% ACN	008-0902.D	HPLC54PG120.M	NA	0.00271	1	1	1	0.00271	ND
RB/100% ACN	008-0903.D	HPLC54PG120.M	NA	0.00271	1	1	1	0.00271	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00271	1	1	1	0.00271	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00271	1	1	1	0.00271	ND

MS/M0011-R2-FHR	012-0401.D	HPLC54PG120ICR.M	4.97	1.27	1	1	121	154	
								Spike Amount (ug)	301
								Native Amount (ug)	12.5
								Spike Recovery (%)	46.9%

MSD/M0011-R2-FHR	013-0501.D	HPLC54PG120ICR.M	4.96	1.48	1	1	117	173	
								Spike Amount (ug)	301
								Native Amount (ug)	12.5
								Spike Recovery (%)	53.3%

Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

MDL 0.00271 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Formaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Aliquot Factor	Vol (mL)	Catch Weight (ug)	Qual
LCS-1	064-3201.D	HPLC54PG120ICR.M	4.96	5.42	1	1	141	765	
								Spike Amount (ug)	1,002
								Spike Recovery (%)	76.4%
LCS-2	019-1101.D	HPLC54PG120ICR.M	4.98	1.98	1	1	135	268	
								Spike Amount (ug)	301
								Spike Recovery (%)	89.0%
hplc54pg120 #SS	007-0801.D	HPLC54PG120.M	5.06	3.07	1	1	1	3.07	
hplc54pg120 #SS	007-0802.D	HPLC54PG120.M	5.07	3.07	1	1	1	3.07	
hplc54pg120 #SS	007-0803.D	HPLC54PG120.M	5.06	3.06	1	1	1	3.06	
								average	3.07
								Spike Amount (ug)	2.90
								Spike Recovery (%)	106%

Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

MDL 0.00448 (ug/mL)

LOQ 0.0747 (ug/mL)

Compound Acetaldehyde

Lower Curve Limit 0.0747 (ug/mL)

Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Aliquot Factor	Vol (mL)	Catch Weight (ug)	Qual
M0011-R1-FHR	041-0401.D	HPLC54PG120ICR.M	6.32	1.36	1	1	151	205	
M0011-R1-FHR	041-0501.D	HPLC54PG120ICR.M	6.31	1.35	1	1	151	204	
								difference	0.4%

Dup/M0011-R1-FHR	042-0601.D	HPLC54PG120ICR.M	6.31	1.22	1	1	158	192	
								difference	6.2%

M0011-R2-FHR	043-0701.D	HPLC54PG120ICR.M	6.31	1.19	1	1	187	222	
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M0011-R3-FHR	044-0801.D	HPLC54PG120ICR.M	6.29	1.69	1	1	266	450	
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M0011-Spike	045-0901.D	HPLC54PG120ICR.M	NA	0.00448	1	1	139	0.623	ND
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M0011-DNPH RgtBlk	046-1001.D	HPLC54PG120ICR.M	NA	0.00448	1	1	141	0.633	ND
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M0011-MeCl2 RgtBlk	047-1101.D	HPLC54PG120ICR.M	NA	0.00448	1	1	222	0.995	ND
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MB-1	063-3101.D	HPLC54PG120ICR.M	NA	0.00448	1	1	132	0.592	ND
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MB-2	018-1001.D	HPLC54PG120ICR.M	NA	0.00448	1	1	139	0.622	ND
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RB/100% ACN	008-0901.D	HPLC54PG120.M	NA	0.00448	1	1	1	0.00448	ND
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RB/100% ACN	008-0902.D	HPLC54PG120.M	NA	0.00448	1	1	1	0.00448	ND
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RB/100% ACN	008-0903.D	HPLC54PG120.M	NA	0.00448	1	1	1	0.00448	ND
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RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00448	1	1	1	0.00448	ND
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RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00448	1	1	1	0.00448	ND
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MS/M0011-R2-FHR	012-0401.D	HPLC54PG120ICR.M	6.28	1.54	1	1	121	186	
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Spike Amount (ug)	293
Native Amount (ug)	37.1
Spike Recovery (%)	50.8%

MSD/M0011-R2-FHR	013-0501.D	HPLC54PG120ICR.M	6.26	1.78	1	1	117	208	
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Spike Amount (ug)	293
Native Amount (ug)	37.1
Spike Recovery (%)	58.3%

Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

MDL 0.00448 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Acetaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Aliquot Factor	Vol (mL)	Catch Weight (ug)	Qual
LCS-1	064-3201.D	HPLC54PG120ICR.M	6.27	5.89	1	1	141	832	
								Spike Amount (ug)	1,006
								Spike Recovery (%)	82.7%

LCS-2	019-1101.D	HPLC54PG120ICR.M	6.28	1.86	1	1	135	251	
								Spike Amount (ug)	293
								Spike Recovery (%)	85.5%

hplc54pg120 #SS	007-0801.D	HPLC54PG120.M	6.39	3.11	1	1	1	3.11	
hplc54pg120 #SS	007-0802.D	HPLC54PG120.M	6.39	3.11	1	1	1	3.11	
hplc54pg120 #SS	007-0803.D	HPLC54PG120.M	6.39	3.10	1	1	1	3.10	
								average	3.11
								Spike Amount (ug)	2.90
								Spike Recovery (%)	107%

Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

MDL 0.00442 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Propionaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Aliquot Factor	Vol (mL)	Catch Weight (ug)	Qual
M0011-R1-FHR	041-0401.D	HPLC54PG120ICR.M	NA	0.00442	1	1	151	0.667	ND
M0011-R1-FHR	041-0501.D	HPLC54PG120ICR.M	NA	0.00442	1	1	151	0.667	ND
difference								0.0%	
Dup/M0011-R1-FHR	042-0601.D	HPLC54PG120ICR.M	NA	0.00442	1	1	158	0.698	ND
difference								4.5%	
M0011-R2-FHR	043-0701.D	HPLC54PG120ICR.M	NA	0.00442	1	1	187	0.829	ND
M0011-R3-FHR	044-0801.D	HPLC54PG120ICR.M	NA	0.00442	1	1	266	1.175	ND
M0011-Spike	045-0901.D	HPLC54PG120ICR.M	NA	0.00442	1	1	139	0.614	ND
M0011-DNPH RgtBlk	046-1001.D	HPLC54PG120ICR.M	NA	0.00442	1	1	141	0.624	ND
M0011-MeCl2 RgtBlk	047-1101.D	HPLC54PG120ICR.M	NA	0.00442	1	1	222	0.981	ND
MB-1	063-3101.D	HPLC54PG120ICR.M	NA	0.00442	1	1	132	0.584	ND
MB-2	018-1001.D	HPLC54PG120ICR.M	NA	0.00442	1	1	139	0.614	ND
RB/100% ACN	008-0901.D	HPLC54PG120.M	NA	0.00442	1	1	1	0.00442	ND
RB/100% ACN	008-0902.D	HPLC54PG120.M	NA	0.00442	1	1	1	0.00442	ND
RB/100% ACN	008-0903.D	HPLC54PG120.M	NA	0.00442	1	1	1	0.00442	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00442	1	1	1	0.00442	ND
RB/100% ACN	002-0301.D	HPLC54PG120ICR.M	NA	0.00442	1	1	1	0.00442	ND
MS/M0011-R2-FHR	012-0401.D	HPLC54PG120ICR.M	8.52	1.22	1	1	121	148	
Spike Amount (ug)								289	
Native Amount (ug)								0.00	
Spike Recovery (%)								51.3%	
MSD/M0011-R2-FHR	013-0501.D	HPLC54PG120ICR.M	8.51	1.36	1	1	117	160	
Spike Amount (ug)								289	
Native Amount (ug)								0.00	
Spike Recovery (%)								55.3%	

Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

MDL 0.00442 (ug/mL)
LOQ 0.0747 (ug/mL)
Compound Propionaldehyde

Lower Curve Limit 0.0747 (ug/mL)
Upper Curve Limit 15.0 (ug/mL)

Sample ID	Lab ID	Analysis Method	Ret Time (min)	Conc (ug/mL)	DF	Aliquot Factor	Vol (mL)	Catch Weight (ug)	Qual
LCS-1	064-3201.D	HPLC54PG120ICR.M	8.52	6.22	1	1	141	878	
								Spike Amount (ug)	962
								Spike Recovery (%)	91.3%
LCS-2	019-1101.D	HPLC54PG120ICR.M	8.54	1.94	1	1	135	262	
								Spike Amount (ug)	289
								Spike Recovery (%)	90.9%
hplc54pg120 #SS	007-0801.D	HPLC54PG120.M	8.62	3.08	1	1	1	3.08	
hplc54pg120 #SS	007-0802.D	HPLC54PG120.M	8.61	3.08	1	1	1	3.08	
hplc54pg120 #SS	007-0803.D	HPLC54PG120.M	8.62	3.07	1	1	1	3.07	
								average	3.08
								Spike Amount (ug)	2.90
								Spike Recovery (%)	106%

Narrative Summary



Enthalpy Analytical Narrative Summary

Company	TRC Environmental Corp
Analyst	KHB
Parameters	EPA SW-846 Method 0011

Client #	184380
Job #	0611-102
# Samples	3 Runs, 2 blanks, 1 spike

Custody

Heather Tarjeft of Enthalpy Analytical, Inc. received the samples on 7/19/11 at 10.5 °C after being relinquished by TRC Environmental Corporation of Austin, TX. The samples were received in good condition. Prior to, during, and after analysis, the samples were kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Analysis

The samples were analyzed for formaldehyde, acetaldehyde, and propionaldehyde using the analytical procedures in EPA SW-846 Method 0011, Sampling for Selected Aldehyde and Ketone Emissions from Stationary Sources.

During sample preparation, *M0011-R1-FHR* was split in two equal halves. The first half was extracted and analyzed as *M0011-R1-FHR*. The second half was extracted and analyzed as *DUP / M0011-R1-FHR*. To determine the catch weights for these samples, the splitting is compensated for by use of the 'Aliquot Factor' (2) shown in the detailed results spreadsheet.

M0011-R2-FHR was also split in half. The first half was analyzed as the sample, and has an aliquot factor of two. The remaining half was split in thirds for use as the Matrix Spike (MS), Matrix Spike Duplicate (MSD), and an archive fraction. These spikes do not have an aliquot factor, and their results are calculated on the basis of what was prepared. Therefore the native amount of the sample used in determining the spike recovery values was 1/6 the calculated final result for the sample itself. The MS and MSD exhibited recovery values of 46.9% and 53.3% for formaldehyde, 50.8% and 58.3% for acetaldehyde, and 51.3% and 55.3% for propionaldehyde. Though these recovery values are low, the LCS prepared and analyzed with these spikes (*LCS-2*) did meet recovery criteria.

The Agilent Model 1100, High Performance Liquid Chromatograph ("Bart") was equipped with an Ultraviolet (UV) Detector operating at 360 nm and a Restek Ultra C18, 150 x 4 mm (S/N 100316P) column.



Enthalpy Analytical Narrative Summary (continued)

Calibration

The calibration curves are located in the Calibration Curve Chromatograms section of this report and referenced in the Analysis Method column on the Detailed Results page.

Chromatographic Conditions

The *HPLC54PG148 2011-07-26 12-19-23\8315ICR.M* acquisition method is included in the Calibration Curve Chromatograms section of this report.

QC Notes

All sample preparation and analytical holding times specified in the method were met.

A blank sample was received and analyzed, no blank adjustment were made to the reported results.

Prior to sample collection the laboratory generated aqueous spikes for the client. Five were prepared, each containing 1002 µg of formaldehyde. Three were provided to the client and two were retained by the laboratory for use as Laboratory Control Samples (LCSs).

One of the retained spikes was used to prepare *LCS-1*. Acetaldehyde and propionaldehyde were added to it prior to analysis. This LCS exhibited recovery values of 76.4%, 82.7%, and 91.3% for formaldehyde, acetaldehyde, and propionaldehyde respectively.

LCS-2 was prepared from a different formaldehyde spike, and had different amounts of the other two spike compounds added as well. The recovery values for this *LCS* were 89.0%, 85.5%, and 90.9% for the three analytes (same order as for *LCS-1* above).

Reporting Notes

These analyses met the requirements of the NELAC Standard. Any deviations from the requirements of the reference method or NELAC Standard have been previously noted in the report narrative.

The results presented in this report are representative of the samples as provided to the laboratory.



General Reporting Notes

The following are general reporting notes that are applicable to all Enthalpy Analytical, Inc. data reports, unless specifically noted otherwise.

- The acronym **MDL** represents the Minimum Detection Limit. Below this value the laboratory cannot determine the presence of the analyte of interest reliably.
- The acronym **LOQ** represents the Limit of Quantification. Below this value the laboratory cannot quantitate the analyte of interest within the criteria of the method.
- The acronym **ND** following a value indicates a non-detect or analytical result below the MDL.
- The letter **J** following a value indicates an analytical result between the MDL and the LOQ. A J flag indicates that the laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** following a value indicates an analytical result exceeding 100% of the highest calibration point. The associated value should be considered as an estimate.
- The acronym **DF** represents Dilution Factor. This number represents dilution of the sample during the preparation and/or analysis process. The analytical result taken from a laboratory instrument is multiplied by the DF to determine the final undiluted sample results.
- The addition of **MS** to the Sample ID represents a Matrix Spike. An aliquot of an actual sample is spiked with a known amount of analyte so that a percent recovery value can be determined. This shows what effect the sample matrix may have on the target analyte, i.e. whether or not anything in the sample matrix interferes with the analysis of the analyte(s).
- The addition of **MSD** to the Sample ID represents a Matrix Spike Duplicate. Prepared in the same manner as an MS, the use of duplicate matrix spikes allows further confirmation of laboratory quality by showing the consistency of results gained by performing the same steps multiple times.
- The addition of **LD** to the Sample ID represents a Laboratory Duplicate. The analyst prepares an additional aliquot of sample for testing and the results of the duplicate analysis are compared to the initial result. The result should have a difference value of within 10% of the initial result (if the results of the original analysis are greater than the LOQ).
- The addition of **AD** to the Sample ID represents an Alternate Dilution. The analyst prepares an additional aliquot at a different dilution factor (usually double the initial factor). This analysis helps confirm that no additional compound is present and coeluting or sharing absorbance with the analyte of interest, as they would have a different response/absorbance than the analyte of interest.
- The Sample ID **LCS** represents a Laboratory Control Sample. Clean matrix, similar to the client sample matrix, prepared and analyzed by the laboratory using the same reagents, spiking standards and procedures used for the client samples. The LCS is used to assess the control of the laboratory's analytical system. Whenever spikes are prepared for our client projects, two extra spikes are prepared. The extras (randomly chosen) are labeled with the associated project number and kept in-house at the appropriate temperature conditions. When the project samples are received for analysis, the LCSs are analyzed to confirm that the analyte could be recovered from the media, separate from the samples which were used on the project and which may have been affected by source matrix, sample collection and/or sample transport.



General Reporting Notes

(continued)

- **Significant Figures:** Where the reported value is much greater than unity (1.00) in the units expressed, the number is rounded to a whole number of units, rather than to 3 significant figures. For example, a value of 10,456.45 ug catch is rounded to 10,456 ug. There are five significant digits displayed, but no confidence should be placed on more than two significant digits.
- **Manual Integration:** The data systems used for processing will flag manually integrated peaks with an "M". There are several reasons a peak may be manually integrated. These reasons will be identified by the following two letter designations. The peak was *not integrated* by the software "NI", the peak was *integrated incorrectly* by the software "II" or the *wrong peak* was integrated by the software "WP". These codes will accompany the analyst's manual integration stamp placed next to the compound name.



Sample Custody



CHAIN OF CUSTODY RECORD

Project Name: ExxonMobil SRU ICR
Project No: 184380
Sampling Date(s): 6/14/2011 7-7-11
Laboratory: Test America Inc Enthalpy
Laboratory P.O.: _____
Shipping Date(s): 6/14/2011 7-7-11
Shipper's Name: _____

Box No.:

[illegible]

Relinquished by: K. Morrison

Date/Time: 7-17-11 1545

Relinquished by: C. Williams

Date/Time: 7-19-11 3:50

Received by: C. W. Hall

Date/Time: 7-17-11 15%

Received by: 17-11-88

Date/Time: 7/19/11 3:50

Remarks (*):

Temp = 10.5° Raytek Gun #2

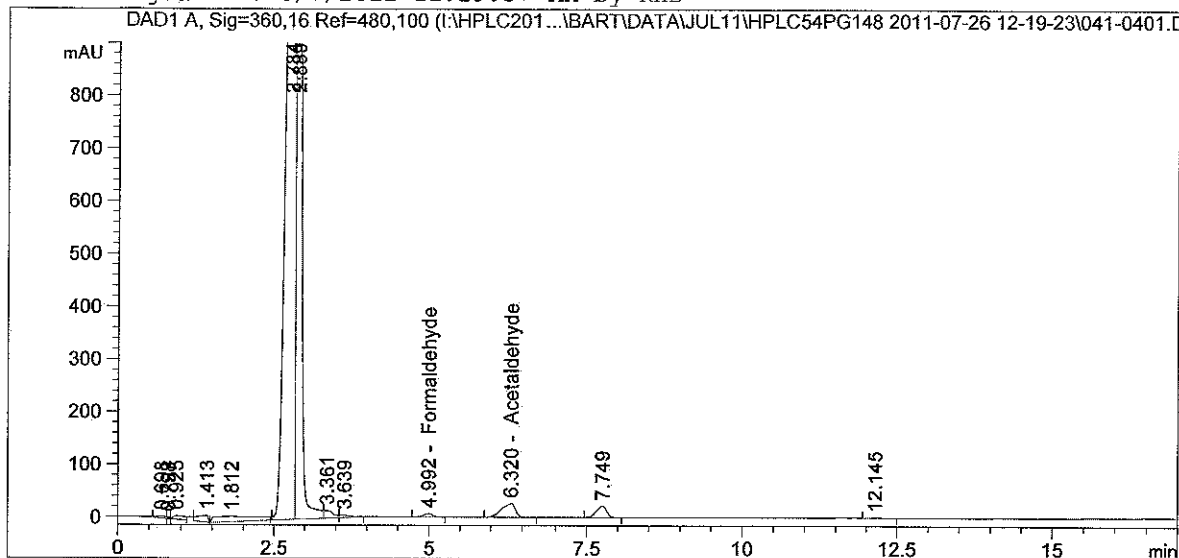
Sample Chromatograms



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Acq. Operator : Kristen Bounds Seq. Line : 4
Acq. Instrument : Bart Location : Vial 41
Injection Date : 7/26/2011 1:25:21 PM Inj : 1
Inj Volume : 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.992	BB	69.30872	2.42472e-3	1.68054e-1		Formaldehyde
6.320	BB	397.71921	3.41603e-3	1.35862		Acetaldehyde
8.604	-	-	-	-		Propionaldehyde

Totals : 1.52668

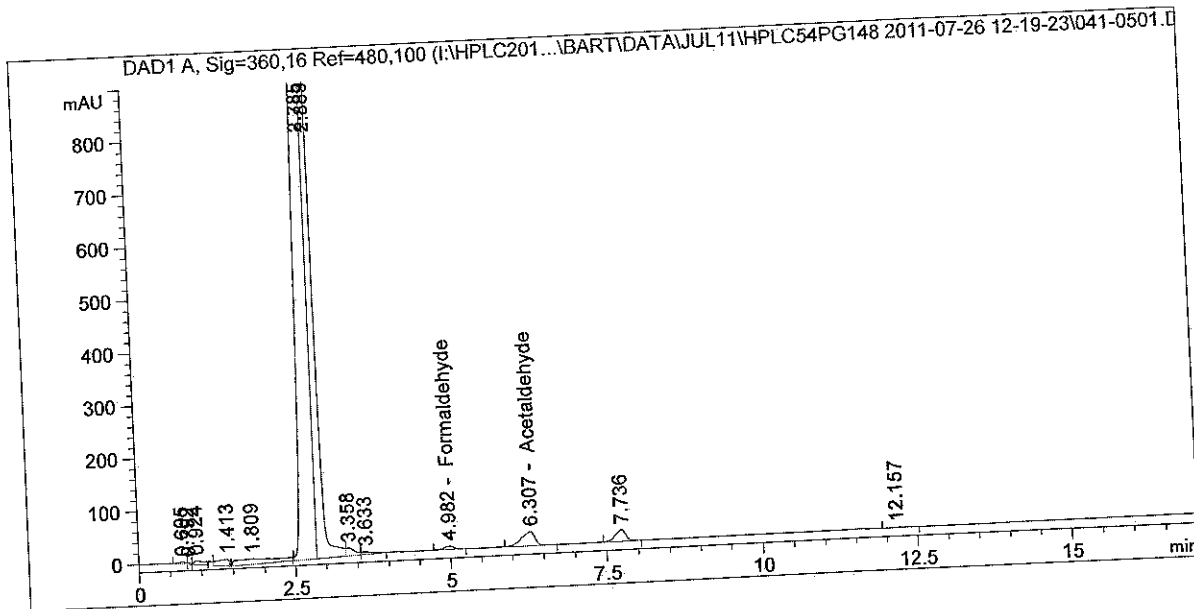
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

*** End of Report ***

Acq. Operator : Kristen Bounds Seq. Line : 5
 Acq. Instrument : Bart Location : Vial 41
 Injection Date : 7/26/2011 1:46:46 PM Inj : 1
 Inj Volume : 15.0 µl
 Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
 Last changed : 6/23/2011 6:03:33 PM by System
 Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
 Last changed : 6/7/2011 11:29:37 AM by KHB
 Sample Info : Duplicate Injection



External Standard Report

Sorted By : Signal
 Calib. Data Modified : 6/7/2011 11:27:58 AM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.982	BB	67.97513	2.42472e-3	1.64821e-1		Formaldehyde
6.307	BB	396.04758	3.41603e-3	1.35291		Acetaldehyde
8.604		-	-	-		Propionaldehyde
				1.51773		

Totals :

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
 Warning : Calibrated compound(s) not found

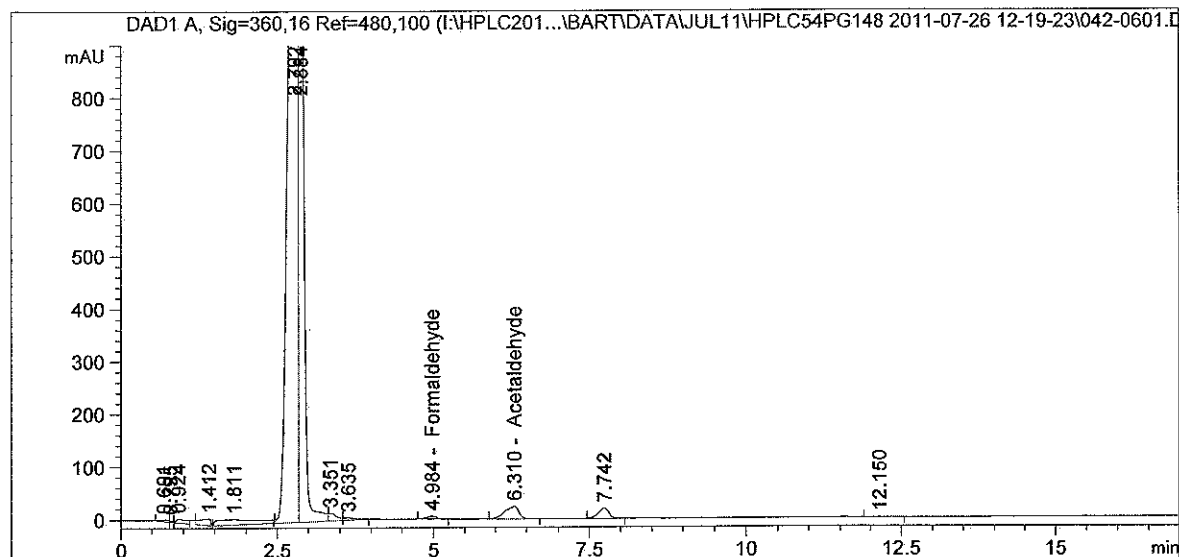
*** End of Report ***

Sample Name: LD/M0011-R1-FHR 0611-102

```

=====
Acq. Operator   : Kristen Bounds          Seq. Line :    6
Acq. Instrument : Bart                    Location  : Vial 42
Injection Date  : 7/26/2011 2:08:17 PM    Inj       :    1
                                           Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
Sample Info     : Lab Duplicate Sample
=====

```



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External Standard Report
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Sorted By      :      Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.984	BB	60.48132	2.42472e-3	1.46650e-1		Formaldehyde
6.310	BB	356.90762	3.41603e-3	1.21921		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 1.36586

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

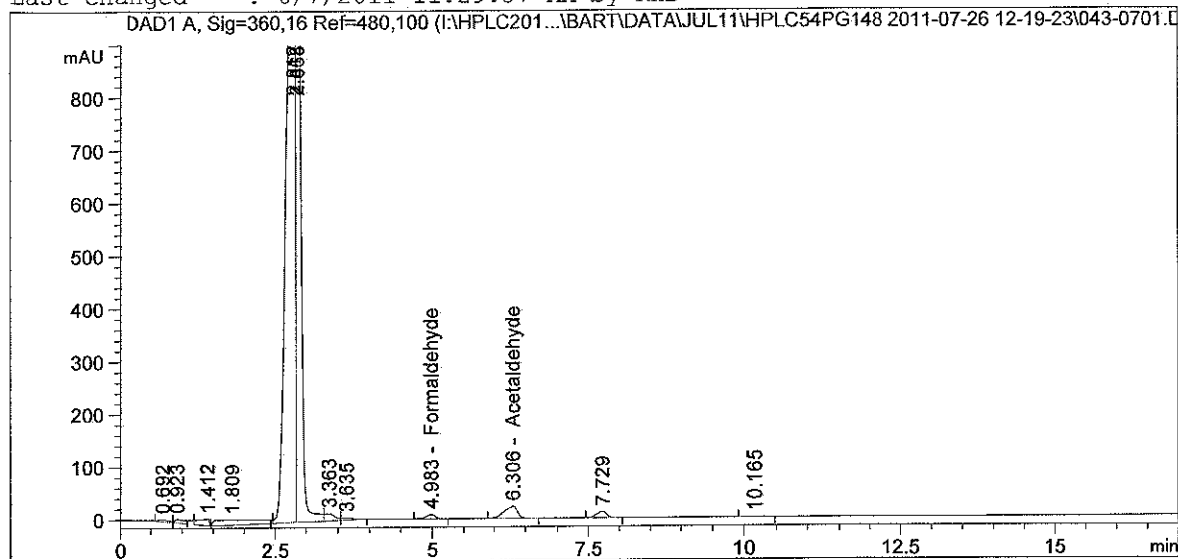
```

=====
*** End of Report ***

```

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 7
Acq. Instrument	: Bart	Location	: Vial 43
Injection Date	: 7/26/2011 2:29:43 PM	Inj	: 1
		Inj Volume	: 15.0 µl
Acq. Method	: C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M		
Last changed	: 6/23/2011 6:03:33 PM by System		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M		
Last changed	: 6/7/2011 11:29:37 AM by KHB		



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.983	BB	82.69580	2.42472e-3	2.00514e-1		Formaldehyde
6.306	BB	347.25931	3.41603e-3	1.18625		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 1.38676

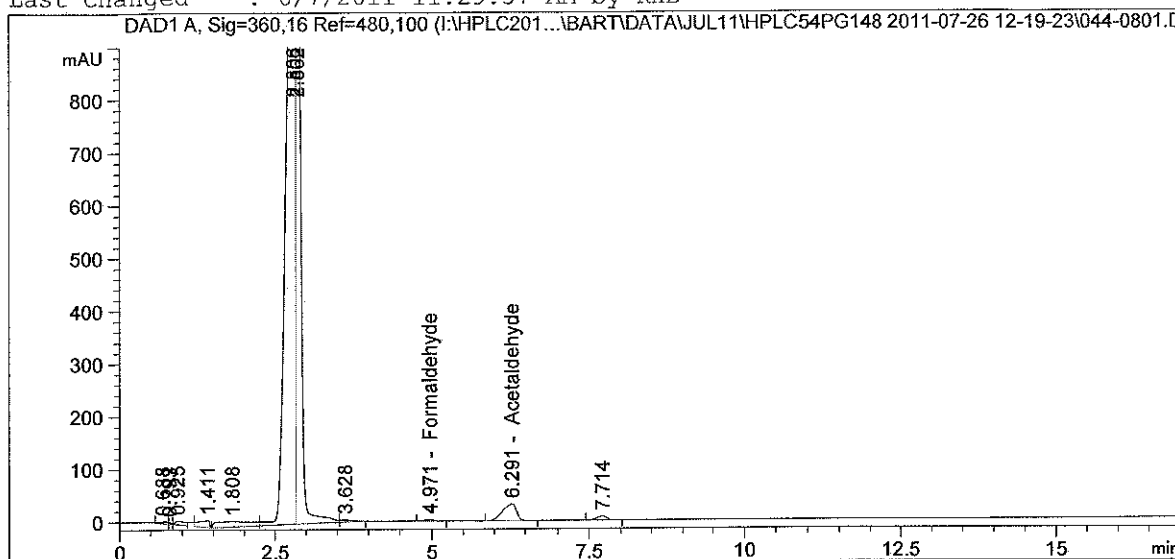
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

*** End of Report ***

=====
Acq. Operator : Kristen Bounds Seq. Line : 8
Acq. Instrument : Bart Location : Vial 44
Injection Date : 7/26/2011 2:51:11 PM Inj : 1
Inj Volume : 15.0 µl
Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB
=====



=====
External Standard Report
=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.971	BB	29.03059	2.42472e-3	7.03910e-2		Formaldehyde
6.291	BB	495.42966	3.41603e-3	1.69240		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 1.76280

2 Warnings or Errors :

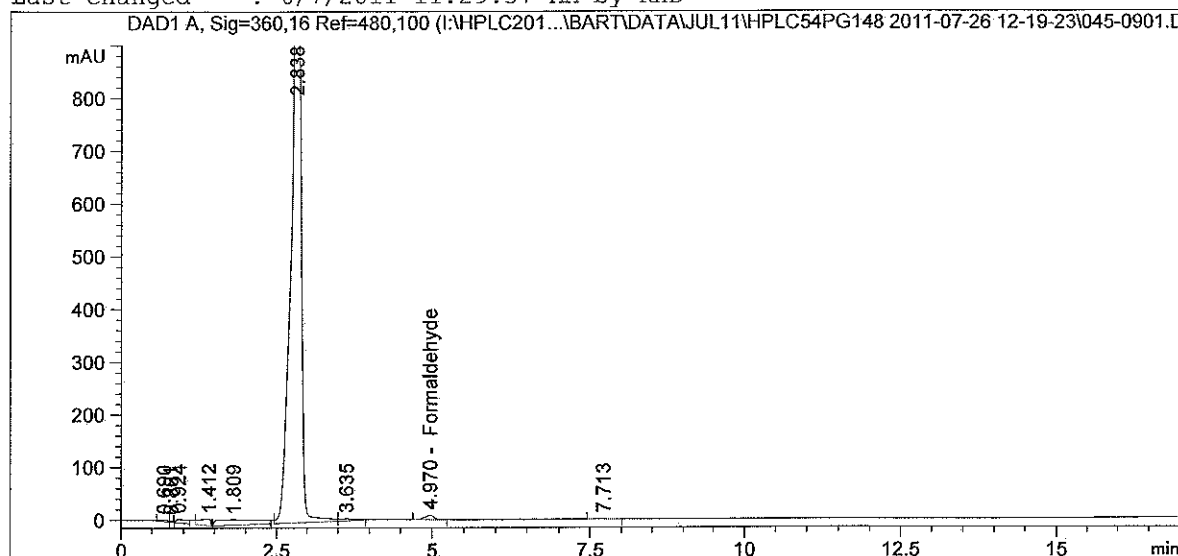
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====
*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 9
Acq. Instrument	: Bart	Location	: Vial 45
Injection Date	: 7/26/2011 3:12:41 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.970	BB	88.01576	2.42472e-3	2.13414e-1		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 2.13414e-1

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

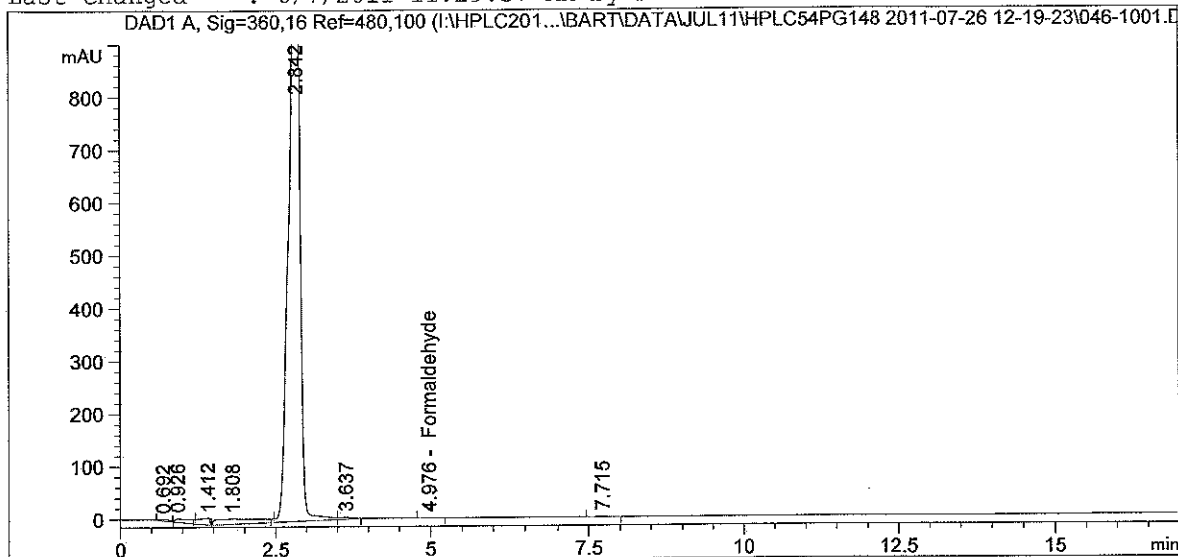
=====

*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 10
Acq. Instrument	: Bart	Location	: Vial 46
Injection Date	: 7/26/2011 3:34:08 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.976	BB	11.38792	2.42472e-3	2.76125e-2		Formaldehyde
6.380		-	-	-		Acetaldehyde
8.604		-	-	-		Propionaldehyde

Totals : 2.76125e-2

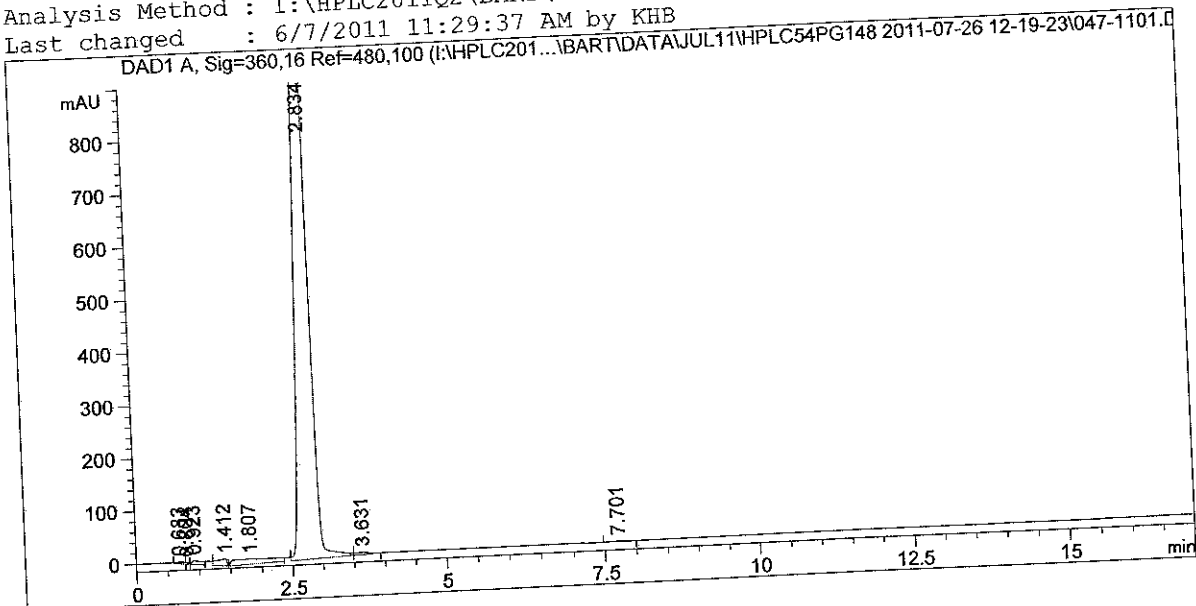
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

*** End of Report ***

Acq. Operator : Kristen Bounds
Acq. Instrument : Bart
Injection Date : 7/26/2011 3:55:38 PM
Seq. Line : 11
Location : Vial 47
Inj : 1
Inj Volume : 15.0 µl
Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

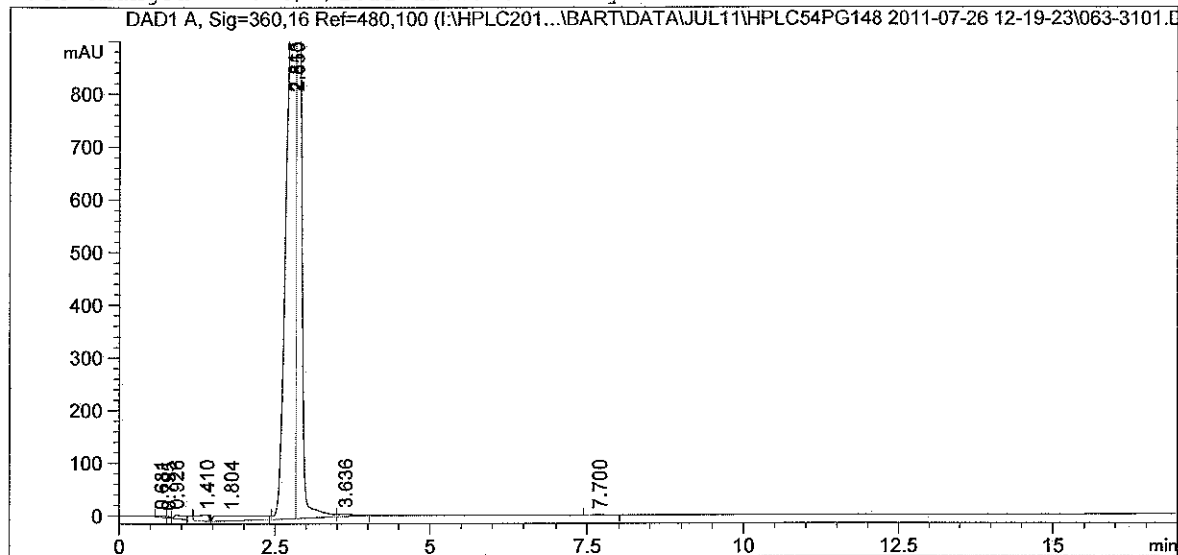
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Sample Name: MB-1

```

=====
Acq. Operator   : Kristen Bounds          Seq. Line :   31
Acq. Instrument : Bart                    Location  : Vial 63
Injection Date  : 7/26/2011 11:05:18 PM   Inj       :    1
                                           Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====

```



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                        External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      6/7/2011 11:27:58 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-		Formaldehyde
6.380	-	-	-	-		Acetaldehyde
8.604	-	-	-	-		Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

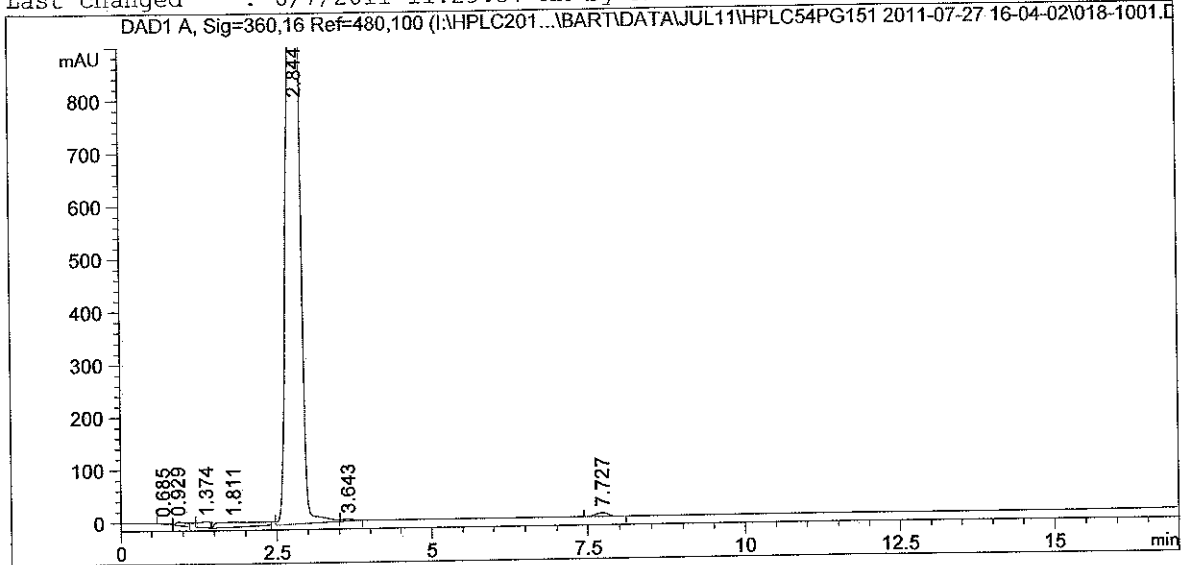
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 10
Acq. Instrument	: Bart	Location	: Vial 18
Injection Date	: 7/27/2011 7:19:02 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

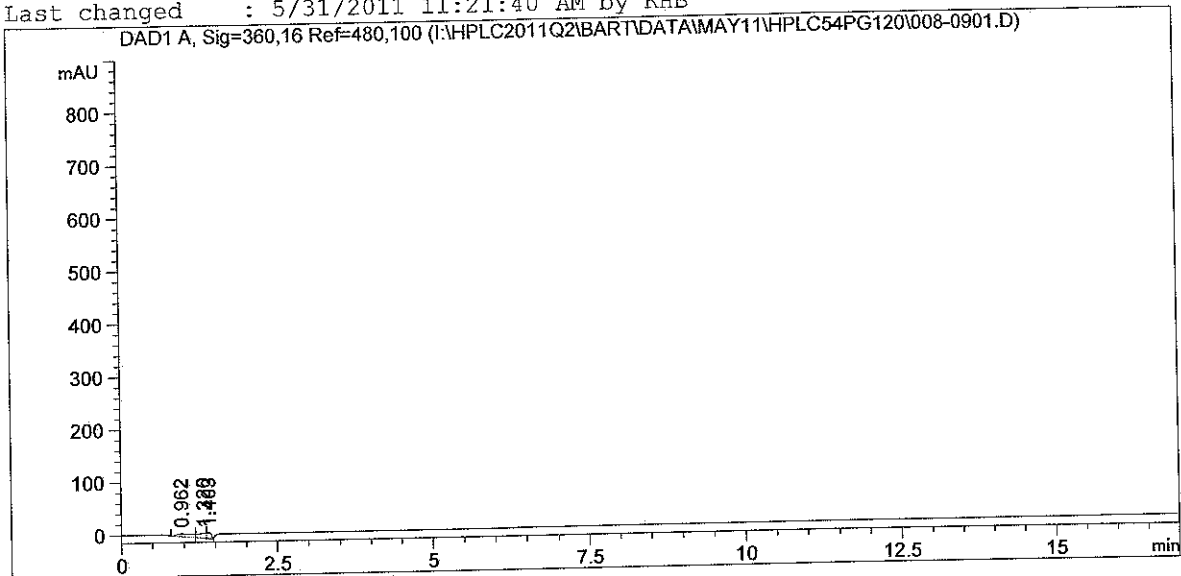
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

=====

Acq. Operator	: KHB	Seq. Line	: 9
Acq. Instrument	: Bart	Location	: Vial 8
Injection Date	: 5/27/2011 11:24:14 PM	Inj	: 1
		Inj Volume	: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
7.788	-	-	-	-	-	Acetone
8.093	-	-	-	-	-	Acrolein
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

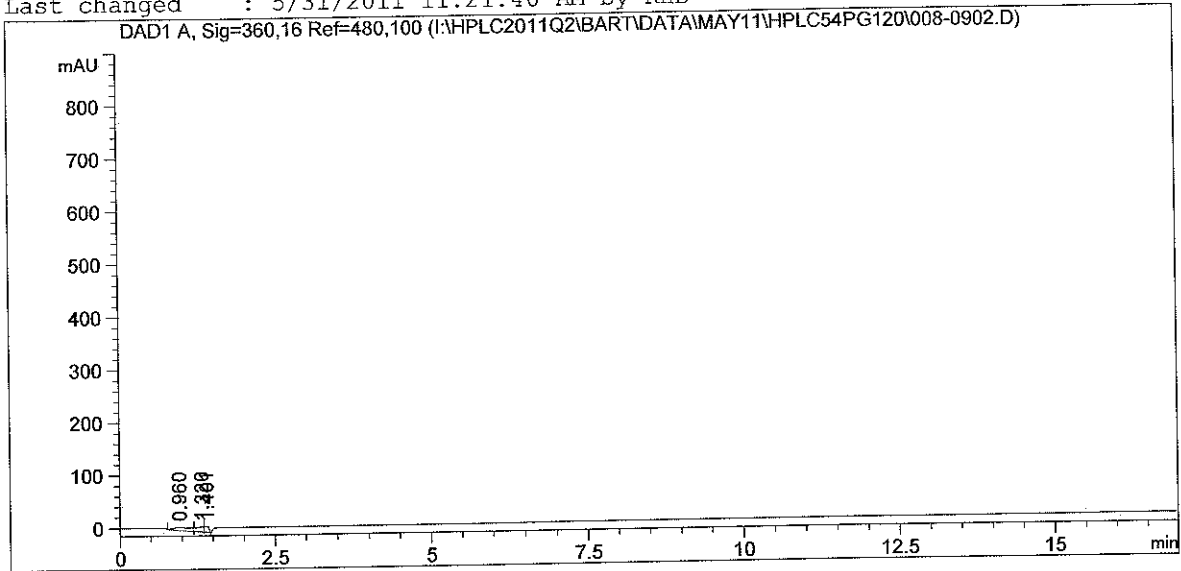
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

=====

Acq. Operator	: KHB	Seq. Line	: 9
Acq. Instrument	: Bart	Location	: Vial 8
Injection Date	: 5/27/2011 11:45:53 PM	Inj	: 2
		Inj Volume	: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
7.788	-	-	-	-	-	Acetone
8.093	-	-	-	-	-	Acrolein
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

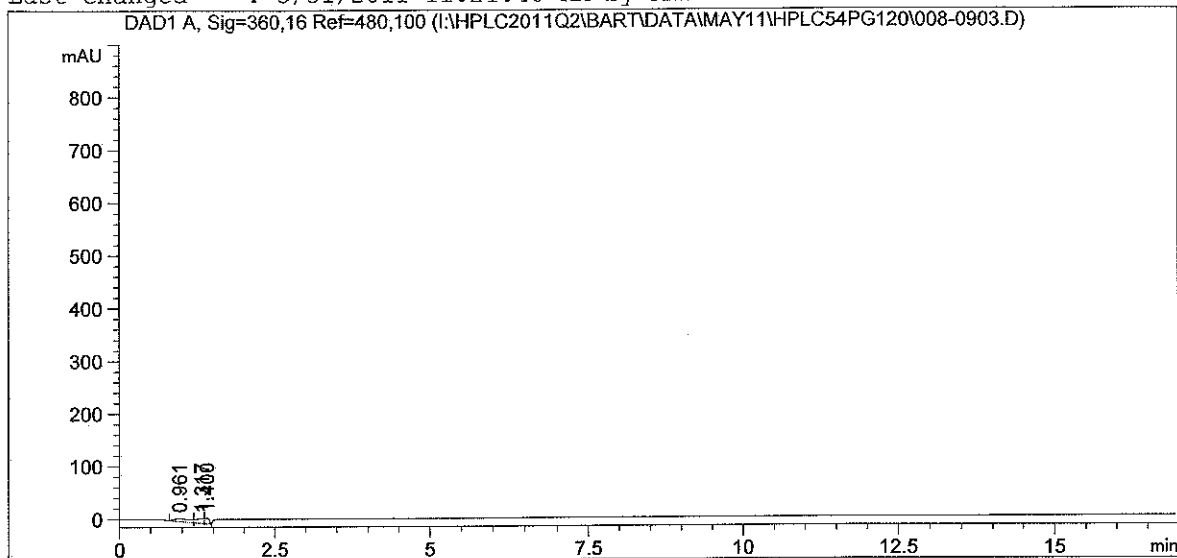
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

Sample Name: RB/100% ACN

```
=====
Acq. Operator   : KHB                      Seq. Line :    9
Acq. Instrument : Bart                     Location  : Vial 8
Injection Date  : 5/28/2011 12:07:30 AM    Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



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=====
                        External Standard Report
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```

```
Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
7.788	-	-	-	-	-	Acetone
8.093	-	-	-	-	-	Acrolein
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

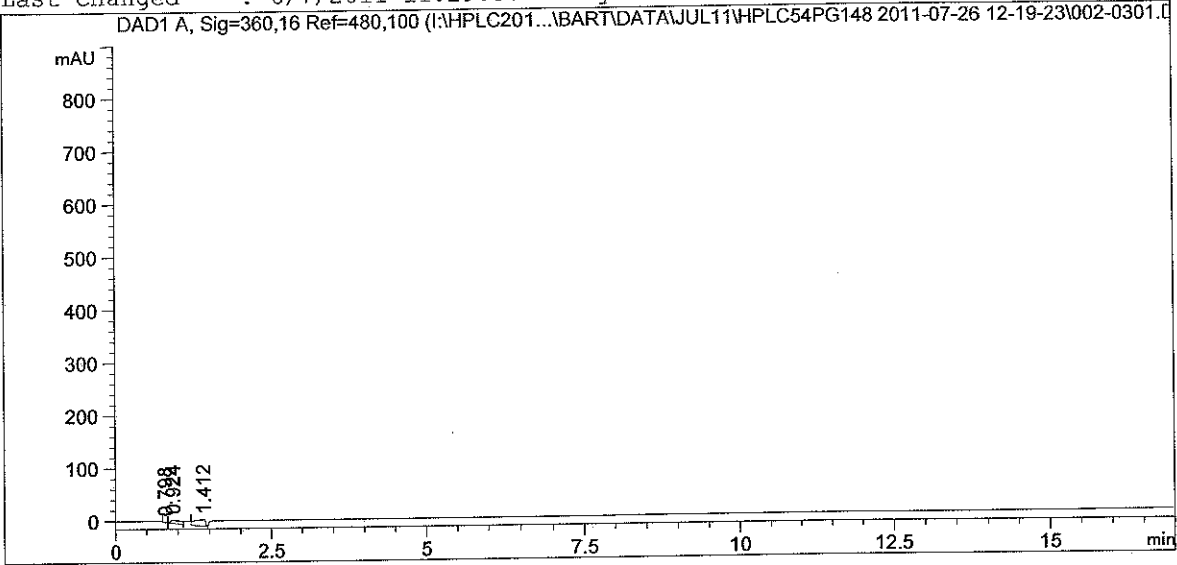
Warning : Calibration warnings (see calibration table listing)

Warning : Calibrated compound(s) not found

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 3
Acq. Instrument	: Bart	Location	: Vial 2
Injection Date	: 7/26/2011 1:03:50 PM	Inj	: 1
		Inj Volume	: 15.0 µl
Acq. Method	: C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M		
Last changed	: 6/23/2011 6:03:33 PM by System		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M		
Last changed	: 6/7/2011 11:29:37 AM by KHB		

DAD1 A, Sig=360,16 Ref=480,100 (I:\HPLC2011Q3\BART\DATA\JUL11\HPLC54PG148 2011-07-26 12-19-23\002-0301.D)



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External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

Totals : 0.00000

2 Warnings or Errors :

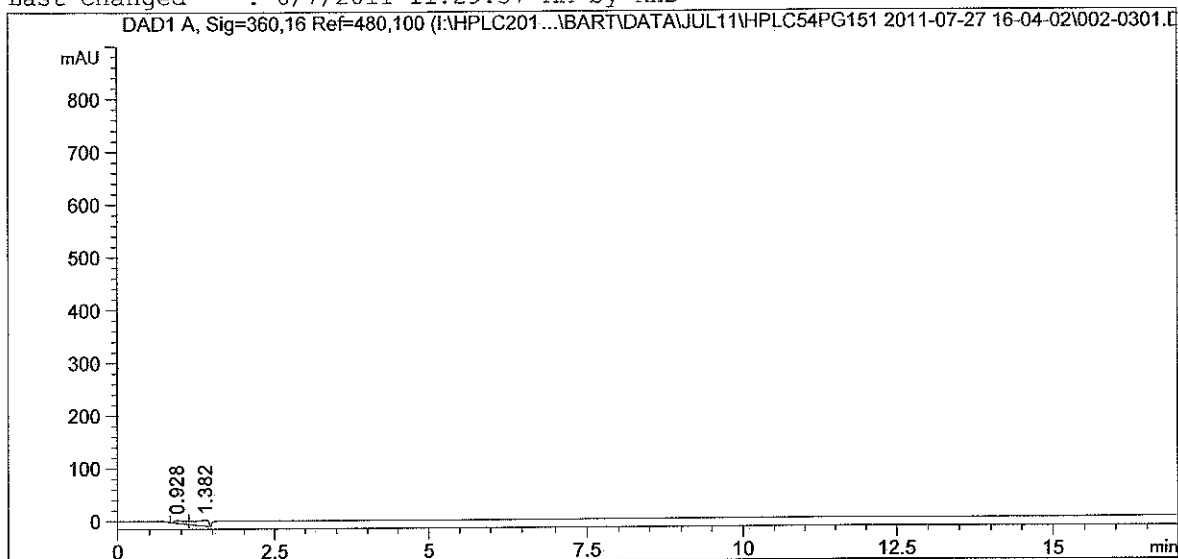
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 3
Acq. Instrument	: Bart	Location	: Vial 2
Injection Date	: 7/27/2011 4:48:53 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	-	-	-	-	-	Formaldehyde
6.380	-	-	-	-	-	Acetaldehyde
8.604	-	-	-	-	-	Propionaldehyde

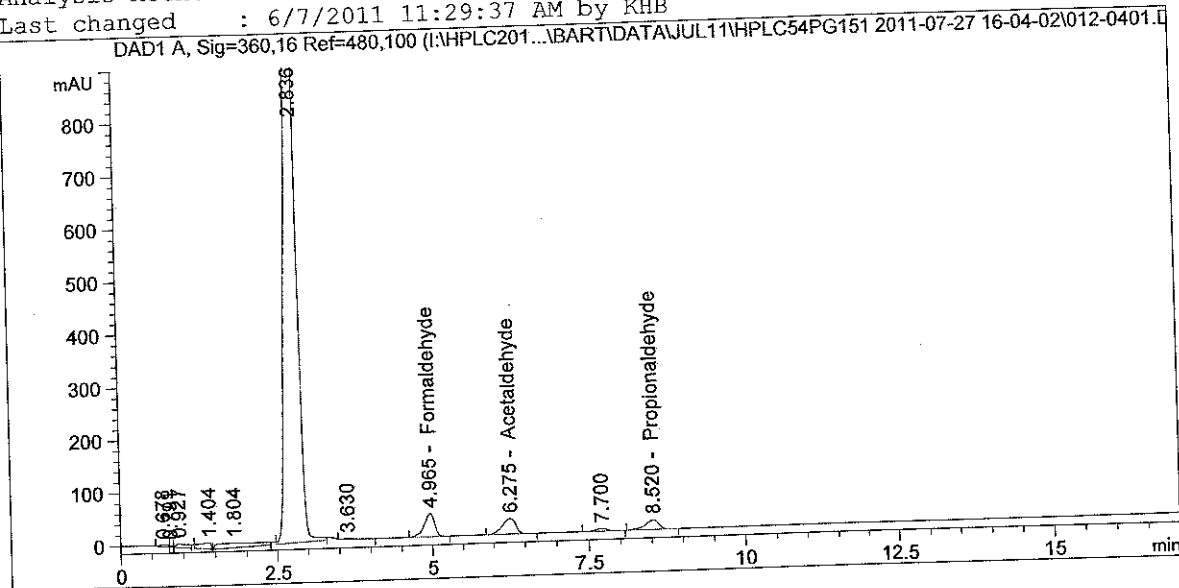
Totals : 0.00000

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

=====

=====
Acq. Operator : Kristen Bounds Seq. Line : 4
Acq. Instrument : Bart Location : Vial 12
Injection Date : 7/27/2011 5:10:20 PM Inj : 1
Inj Volume : 15.0 µl
Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB
DAD1 A, Sig=360,16 Ref=480,100 (I:\HPLC2011Q3\BART\DATA\JUL11\HPLC54PG151 2011-07-27 16-04-02\012-0401.D)



=====
External Standard Report
=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.965	BB	522.91327	2.42472e-3	1.26792		Formaldehyde
6.275	BB	449.78256	3.41603e-3	1.53647		Acetaldehyde
8.520	BB	276.63626	4.41958e-3	1.22262		Propionaldehyde

Totals : 4.02701

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====
*** End of Report ***
=====

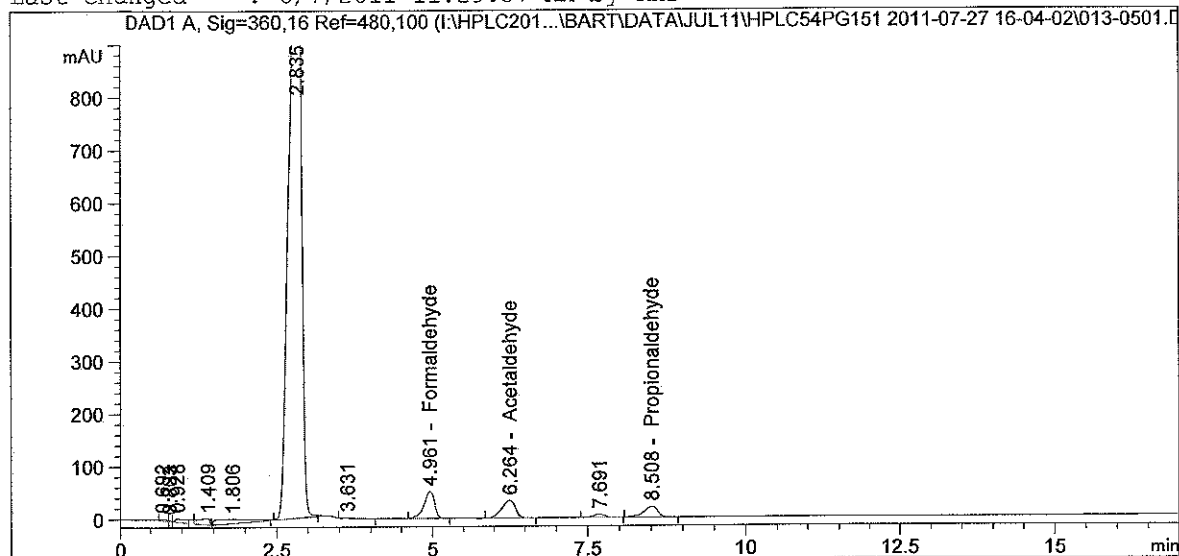
Sample Name: MSD/M0011-R2-FHR 0611-102

```

=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    5
Acq. Instrument : Bart                               Location  : Vial 13
Injection Date  : 7/27/2011 5:31:45 PM                Inj       :    1
                                                Inj Volume: 15.0 µl

Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====

```



```

=====
External Standard Report
=====

```

```

Sorted By      : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.961	BB	609.05322	2.42472e-3	1.47678		Formaldehyde
6.264	BB	520.26746	3.41603e-3	1.77725		Acetaldehyde
8.508	BB	308.52731	4.41958e-3	1.36356		Propionaldehyde

Totals : 4.61760

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

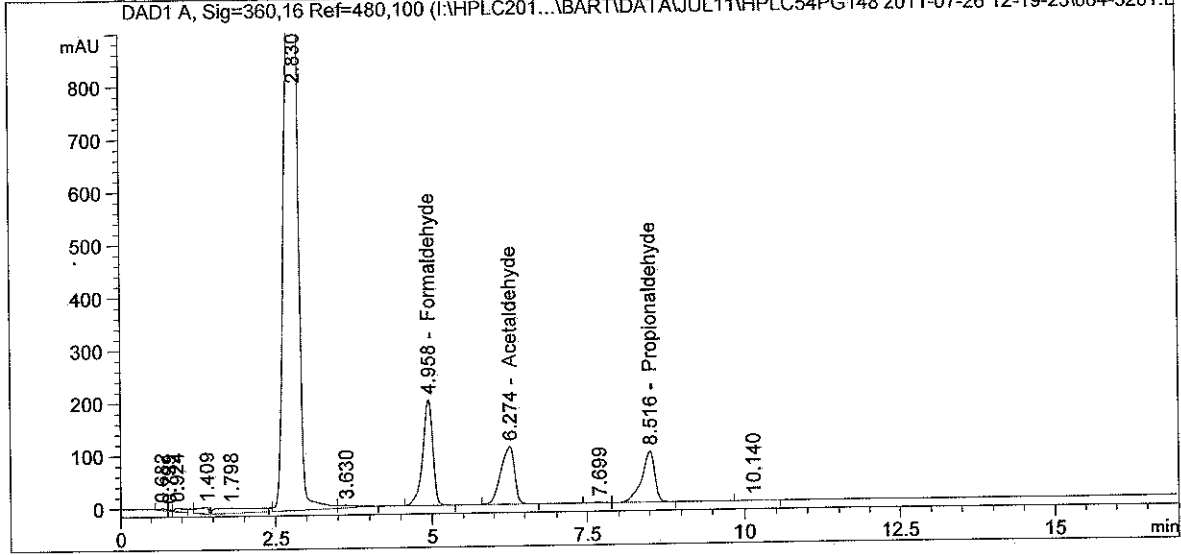
=====
*** End of Report ***
=====

```

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 32
Acq. Instrument	: Bart	Location	: Vial 64
Injection Date	: 7/26/2011 11:26:44 PM	Inj	: 1
		Inj Volume	: 15.0 µl
Acq. Method	: C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M		
Last changed	: 6/23/2011 6:03:33 PM by System		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M		
Last changed	: 6/7/2011 11:29:37 AM by KHB		

DAD1 A, Sig=360,16 Ref=480,100 (I:\HPLC2011Q3\BART\DATA\JUL11\HPLC54PG148 2011-07-26 12-19-23\064-3201.D)



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.958	BB	2235.47095	2.42472e-3	5.42039		Formaldehyde
6.274	BB	1725.35754	3.41603e-3	5.89388		Acetaldehyde
8.516	VB	1408.12842	4.41958e-3	6.22334		Propionaldehyde

Totals : 17.53761

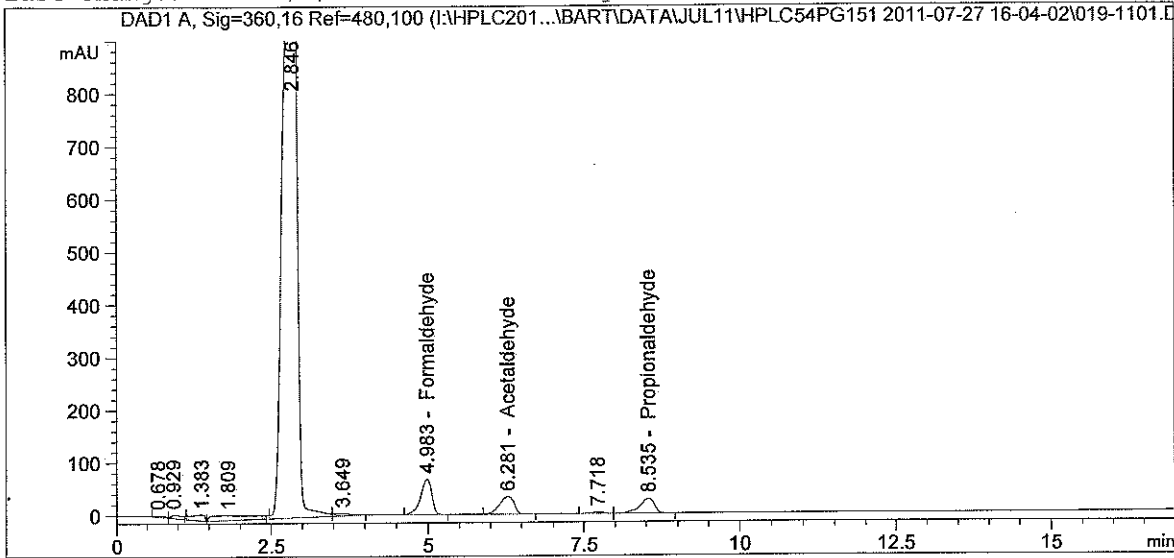
1 Warnings or Errors :
Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 11
Acq. Instrument	: Bart	Location	: Vial 19
Injection Date	: 7/27/2011 7:40:34 PM	Inj	: 1
		Inj Volume	: 15.0 µl
Acq. Method	: C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M		
Last changed	: 6/23/2011 6:03:33 PM by System		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M		
Last changed	: 6/7/2011 11:29:37 AM by KHB		



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External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.983	BB	816.83551	2.42472e-3	1.98060		Formaldehyde
6.281	BB	543.66626	3.41603e-3	1.85718		Acetaldehyde
8.535	VB	439.23352	4.41958e-3	1.94123		Propionaldehyde

Totals : 5.77901

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

Calibration Curve Chromatograms



Calibration Table

Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.000 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.000 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Average Response/Amount
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime	Lvl	Amount	Area	Amt/Area	Ref Grp Name
[min]	Sig	[ug/mL]			
5.057	1	7.47000e-2	30.61963	2.43961e-3	Formaldehyde
	2	7.15000e-1	310.99482	2.29907e-3	
	3	2.50000	1000.60588	2.49849e-3	
	4	5.00000	2049.16028	2.44002e-3	
	5	9.01000	3688.39754	2.44280e-3	
	6	15.00000	6153.18799	2.43776e-3	
6.380	1	7.47000e-2	21.60617	3.45735e-3	Acetaldehyde
	2	7.15000e-1	220.44158	3.24349e-3	
	3	2.50000	712.11804	3.51065e-3	
	4	5.01000	1458.37695	3.43533e-3	
	5	9.01000	2621.98153	3.43633e-3	
	6	15.00000	4378.88102	3.42553e-3	
7.788	1	7.47000e-2	16.62340	4.49366e-3	Acetone
	2	7.15000e-1	165.24312	4.32696e-3	
	3	2.50000	533.17934	4.68885e-3	
	4	5.00000	1092.29525	4.57752e-3	
	5	9.01000	1967.45394	4.57952e-3	
	6	15.00000	3276.86100	4.57755e-3	
8.093	1	7.47000e-2	20.19522	3.69889e-3	Acrolein
	2	7.15000e-1	195.41486	3.65888e-3	
	3	2.50000	629.92090	3.96875e-3	
	4	5.01000	1287.60856	3.89093e-3	
	5	9.01000	2315.26774	3.89156e-3	
	6	15.00000	3867.90869	3.87806e-3	
8.604	1	7.46000e-2	16.01441	4.65831e-3	Propionaldehyde
	2	7.14000e-1	171.99996	4.15116e-3	
	3	2.50000	553.96212	4.51294e-3	
	4	5.00000	1133.32080	4.41181e-3	

RetTime	Lvl	Amount	Area	Amt/Area	Ref Grp	Name
[min]	Sig	[ug/mL]				
5		9.00000	2038.95015	4.41404e-3		
6		15.00000	3408.43978	4.40084e-3		

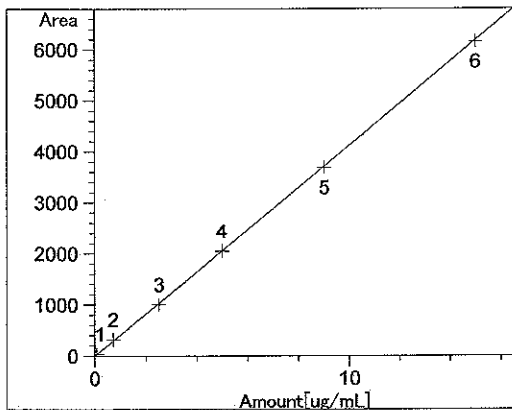
1 Warnings or Errors :

Warning : Overlapping peak time windows at 7.788 min, signal 1

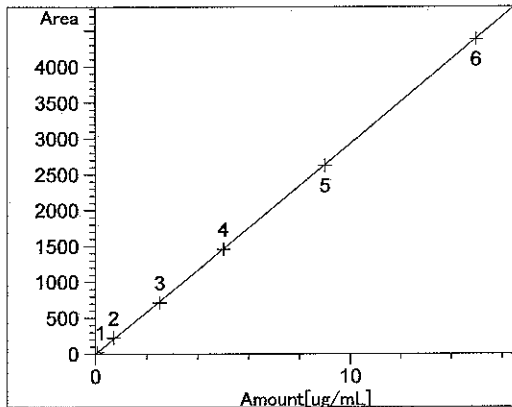
Peak Sum Table

No Entries in table

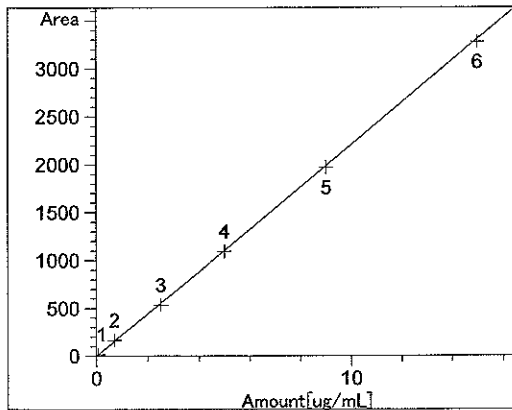
Calibration Curves



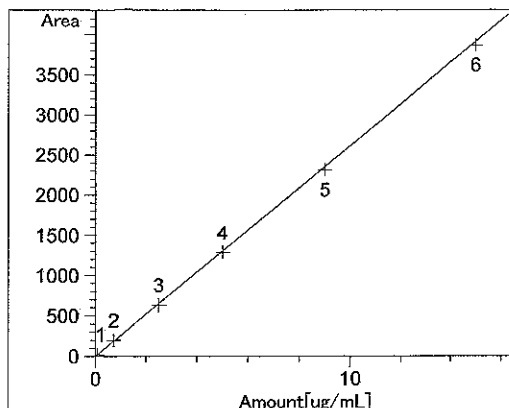
Formaldehyde at exp. RT: 5.057
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 28.30642
Formula: $y = mx$
m: 412.41885
x: Amount
y: Area



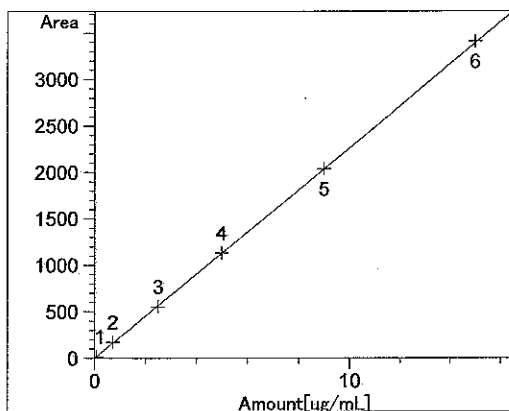
Acetaldehyde at exp. RT: 6.380
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 15.58800
Formula: $y = mx$
m: 292.73714
x: Amount
y: Area



Acetone at exp. RT: 7.788
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 20.06094
Formula: $y = mx$
m: 220.36606
x: Amount
y: Area



Acrolein at exp. RT: 8.093
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 35.78804
Formula: $y = mx$
m: 261.24361
x: Amount
y: Area



Propionaldehyde at exp. RT: 8.604
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 10.79580
Formula: $y = mx$
m: 226.26583
x: Amount
y: Area

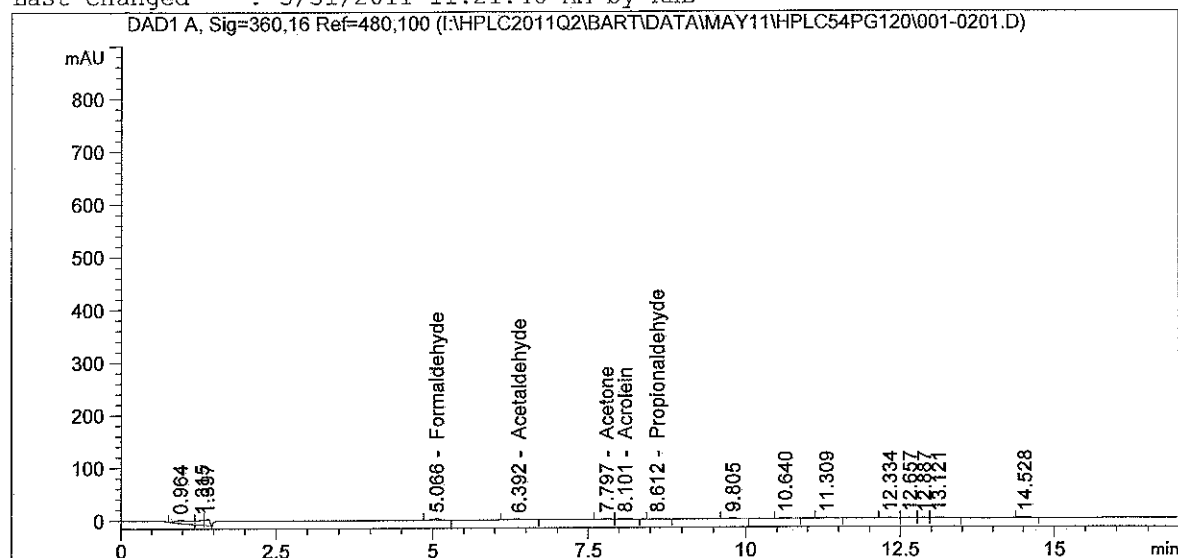
Sample Name: hplc54pg120 #1

```

=====
Acq. Operator   : KHB                      Seq. Line :    2
Acq. Instrument : Bart                    Location  : Vial 1
Injection Date  : 5/27/2011 3:49:47 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

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External Standard Report
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```

Sorted By      : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.066	BB	29.63630	2.42472e-3	7.18597e-2		Formaldehyde
6.392	BB	22.03458	3.41603e-3	7.52709e-2		Acetaldehyde
7.797	BV	16.60152	4.53790e-3	7.53361e-2		Acetone
8.101	VB	20.15335	3.82784e-3	7.71439e-2		Acrolein
8.612	BB	16.10484	4.41958e-3	7.11766e-2		Propionaldehyde

Totals : 3.70787e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

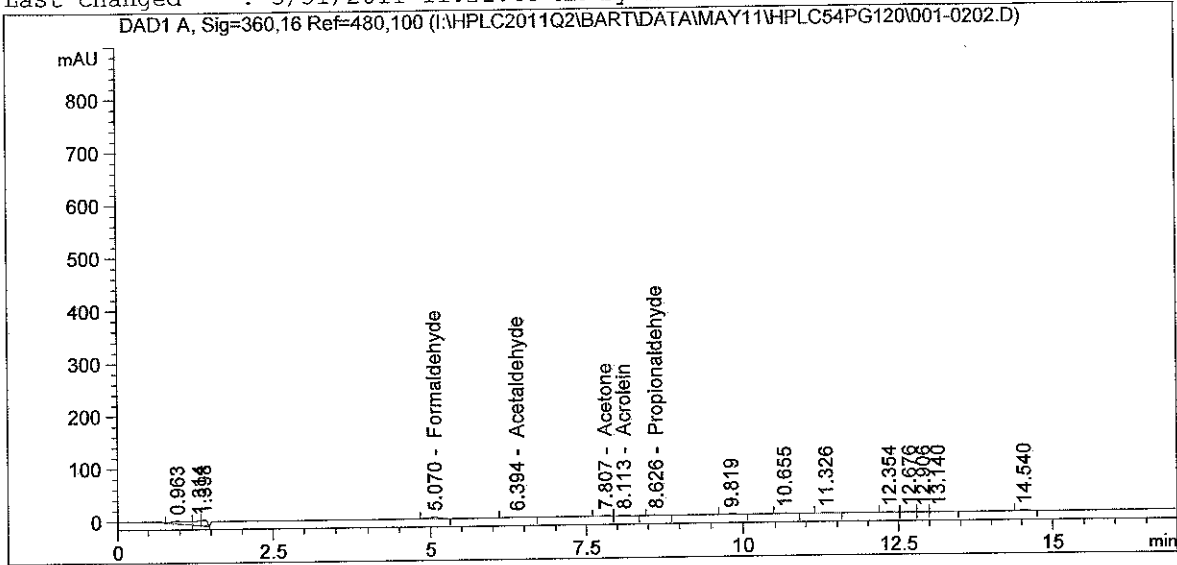
=====
*** End of Report ***
=====

```

=====

Acq. Operator	: KHB	Seq. Line	: 2
Acq. Instrument	: Bart	Location	: Vial 1
Injection Date	: 5/27/2011 4:11:25 PM	Inj	: 2
		Inj Volume	: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.070	BB	31.00495	2.42472e-3	7.51783e-2		Formaldehyde
6.394	BB	21.29319	3.41603e-3	7.27383e-2		Acetaldehyde
7.807	BV	16.89919	4.53790e-3	7.66869e-2		Acetone
8.113	VB	20.30722	3.82784e-3	7.77329e-2		Acrolein
8.626	BB	16.01859	4.41958e-3	7.07955e-2		Propionaldehyde

Totals : 3.73132e-1

1 Warnings or Errors :
Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

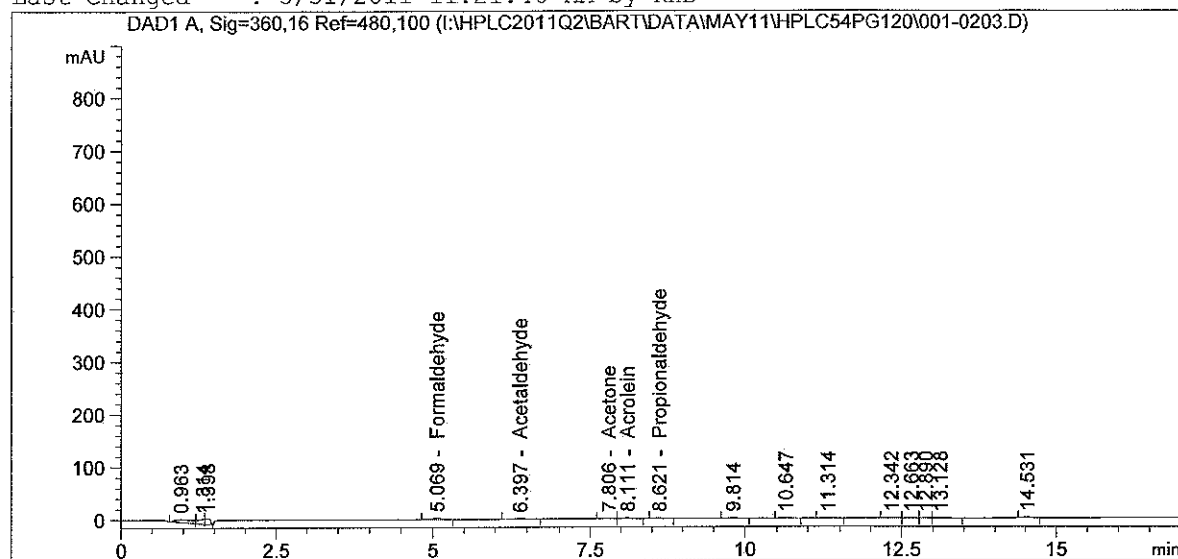
Sample Name: hplc54pg120 #1

```

=====
Acq. Operator   : KHB                      Seq. Line :    2
Acq. Instrument : Bart                    Location  : Vial 1
Injection Date  : 5/27/2011 4:33:05 PM      Inj       :    3
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

```



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External Standard Report
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```

```

Sorted By      : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.069	BB	31.21763	2.42472e-3	7.56940e-2		Formaldehyde
6.397	BB	21.49072	3.41603e-3	7.34130e-2		Acetaldehyde
7.806	BV	16.36949	4.53790e-3	7.42832e-2		Acetone
8.111	VB	20.12511	3.82784e-3	7.70358e-2		Acrolein
8.621	BB	15.91979	4.41958e-3	7.03588e-2		Propionaldehyde

Totals : 3.70785e-1

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```

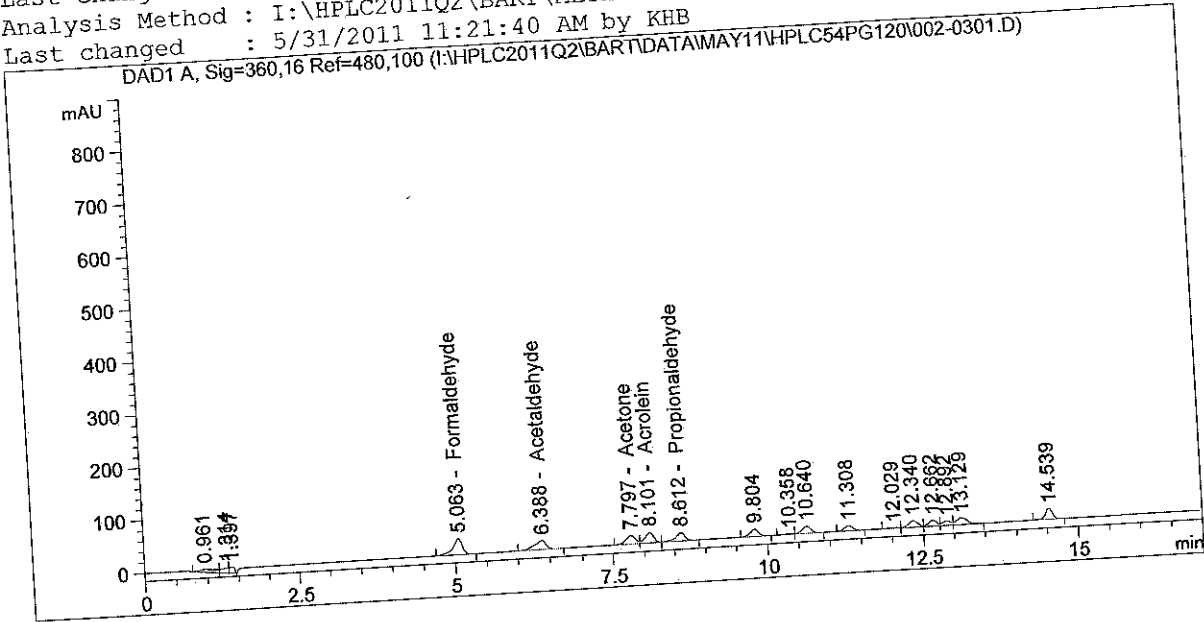
=====
*** End of Report ***
=====

```

=====

Acq. Operator	: KHB	Seq. Line	: 3
Acq. Instrument	: Bart	Location	: Vial 2
Injection Date	: 5/27/2011 4:54:43 PM	Inj	: 1
		Inj Volume	: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	311.51663	2.42472e-3	7.55340e-1		Formaldehyde
6.388	BB	221.01292	3.41603e-3	7.54988e-1		Acetaldehyde
7.797	BV	166.06204	4.53790e-3	7.53574e-1		Acetone
8.101	VV	195.89969	3.82784e-3	7.49874e-1		Acrolein
8.612	VB	172.74652	4.41958e-3	7.63467e-1		Propionaldehyde

Totals : 3.77724

1 Warnings or Errors :

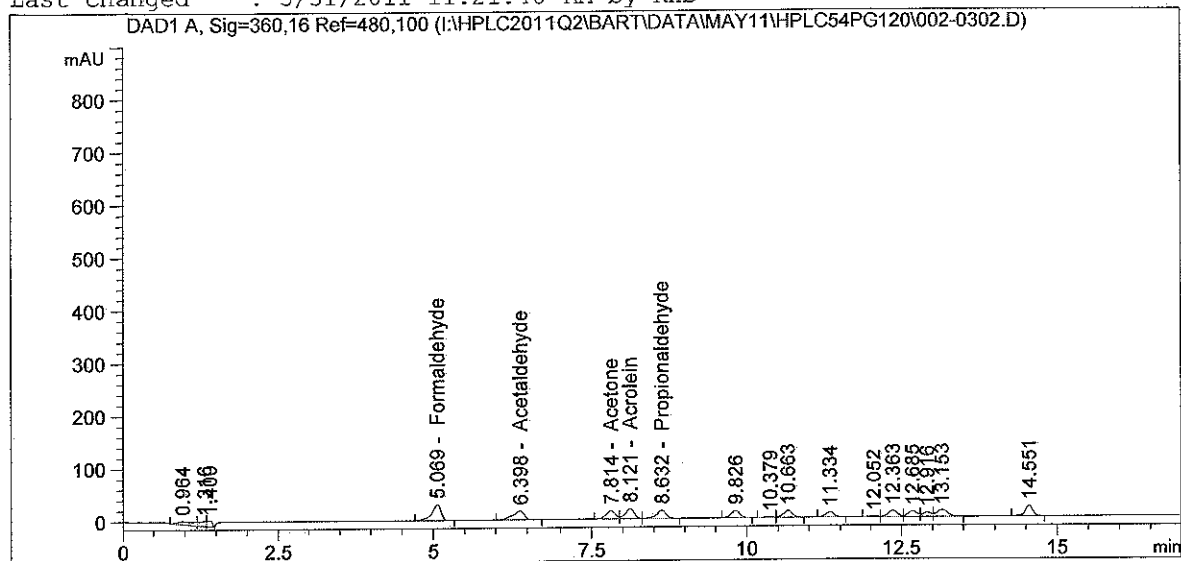
Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

```
=====
Acq. Operator   : KHB                      Seq. Line :    3
Acq. Instrument : Bart                     Location  : Vial 2
Injection Date  : 5/27/2011 5:16:23 PM      Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
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```

```
Sorted By           : Signal
Calib. Data Modified: Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.069	BB	310.92529	2.42472e-3	7.53907e-1		Formaldehyde
6.398	BB	220.41605	3.41603e-3	7.52949e-1		Acetaldehyde
7.814	BV	164.85385	4.53790e-3	7.48091e-1		Acetone
8.121	VV	195.58609	3.82784e-3	7.48673e-1		Acrolein
8.632	VB	171.94592	4.41958e-3	7.59929e-1		Propionaldehyde

Totals : 3.76355

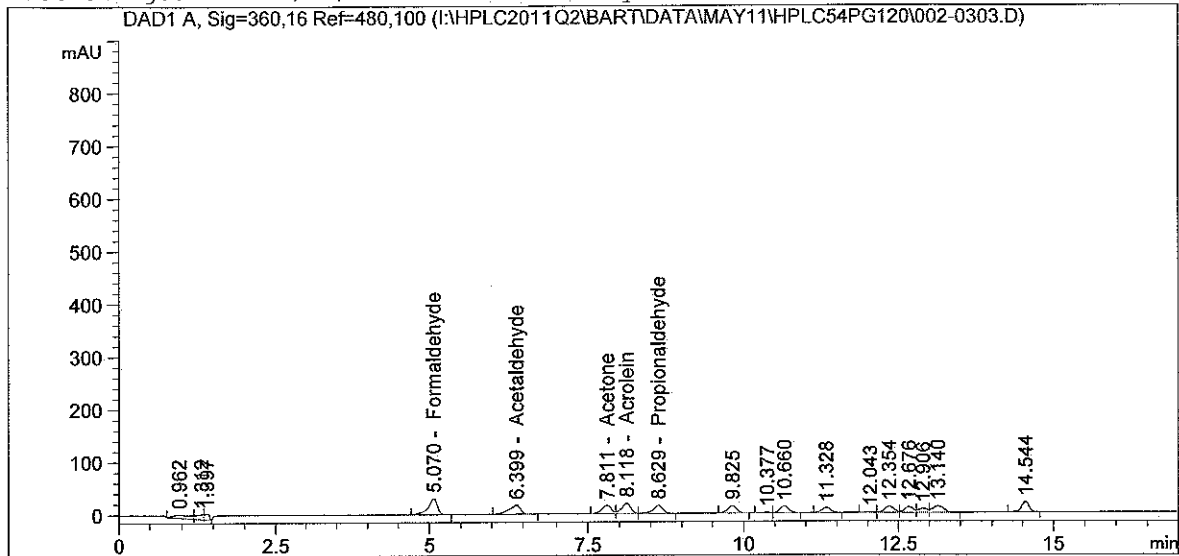
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```

=====

Acq. Operator	: KHB	Seq. Line	: 3
Acq. Instrument	: Bart	Location	: Vial 2
Injection Date	: 5/27/2011 5:38:01 PM	Inj	: 3
		Inj Volume	: 15.000 µl
Acq. Method	: H:\HPLC2011Q2\BART\METHODS\8315ICR.M		
Last changed	: 5/27/2011 3:16:54 PM by KHB		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M		
Last changed	: 5/31/2011 11:21:40 AM by KHB		



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.070	BB	310.54254	2.42472e-3	7.52979e-1		Formaldehyde
6.399	BB	219.89577	3.41603e-3	7.51171e-1		Acetaldehyde
7.811	BV	164.81348	4.53790e-3	7.47908e-1		Acetone
8.118	VV	194.75879	3.82784e-3	7.45506e-1		Acrolein
8.629	VB	171.30743	4.41958e-3	7.57107e-1		Propionaldehyde

Totals : 3.75467

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

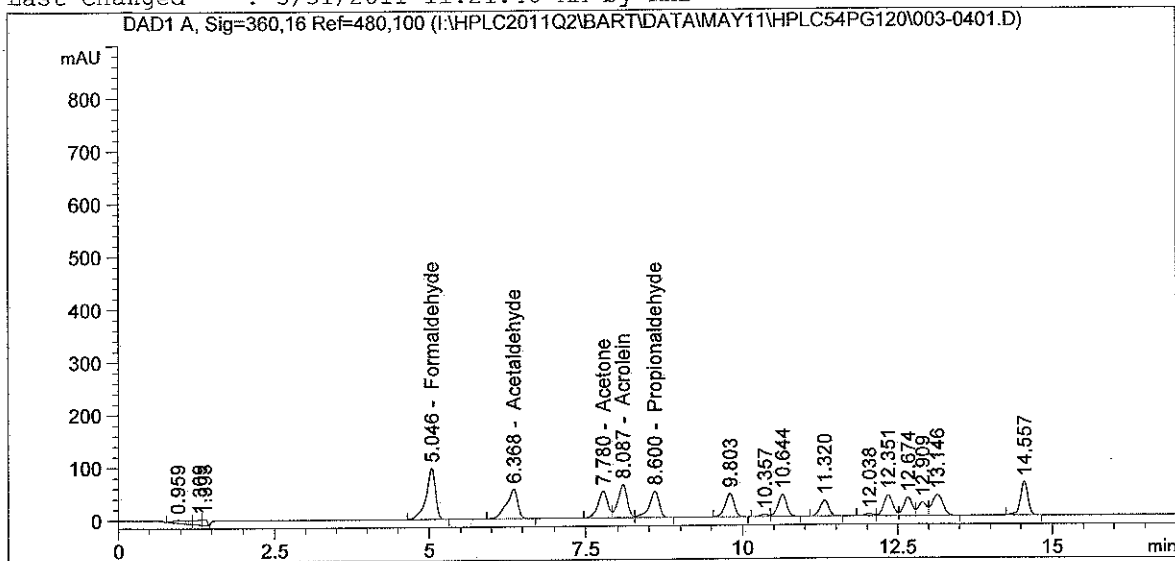
=====

*** End of Report ***

=====

Acq. Operator	: KHB	Seq. Line	: 4
Acq. Instrument	: Bart	Location	: Vial 3
Injection Date	: 5/27/2011 5:59:39 PM	Inj	: 1
		Inj Volume	: 15.000 µl
Acq. Method	: H:\HPLC2011Q2\BART\METHODS\8315ICR.M		
Last changed	: 5/27/2011 3:16:54 PM by KHB		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M		
Last changed	: 5/31/2011 11:21:40 AM by KHB		

=====



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External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.046	BB	998.41003	2.42472e-3	2.42086		Formaldehyde
6.368	BB	709.74158	3.41603e-3	2.42450		Acetaldehyde
7.780	BV	531.52472	4.53790e-3	2.41201		Acetone
8.087	VV	627.80054	3.82784e-3	2.40312		Acrolein
8.600	VB	551.54254	4.41958e-3	2.43759		Propionaldehyde

Totals : 12.09808

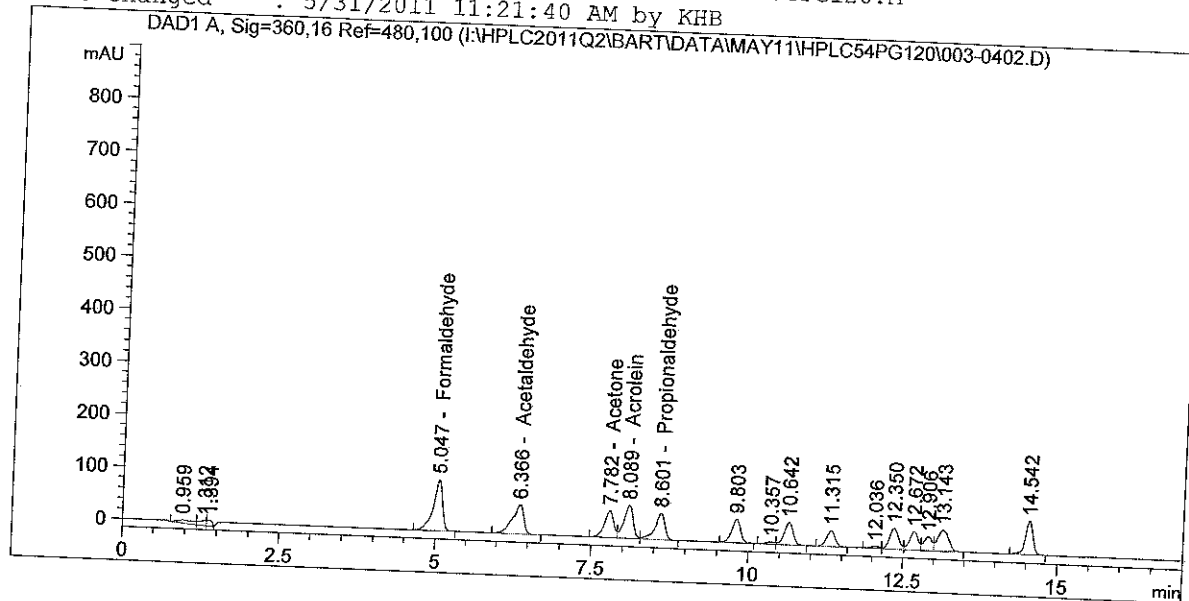
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

Acq. Operator : KHB
 Acq. Instrument : Bart
 Injection Date : 5/27/2011 6:21:18 PM
 Seq. Line : 4
 Location : Vial 3
 Inj : 2
 Inj Volume : 15.000 µl
 Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
 Last changed : 5/27/2011 3:16:54 PM by KHB
 Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
 Last changed : 5/31/2011 11:21:40 AM by KHB



External Standard Report

Sorted By : Signal
 Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.047	BB	1000.59607	2.42472e-3	2.42616		Formaldehyde
6.366	BB	712.76935	3.41603e-3	2.43484		Acetaldehyde
7.782	BV	534.88556	4.53790e-3	2.42726		Acetone
8.089	VV	630.79639	3.82784e-3	2.41459		Acrolein
8.601	VB	555.57050	4.41958e-3	2.45539		Propionaldehyde

Totals : 12.15825

1 Warnings or Errors :

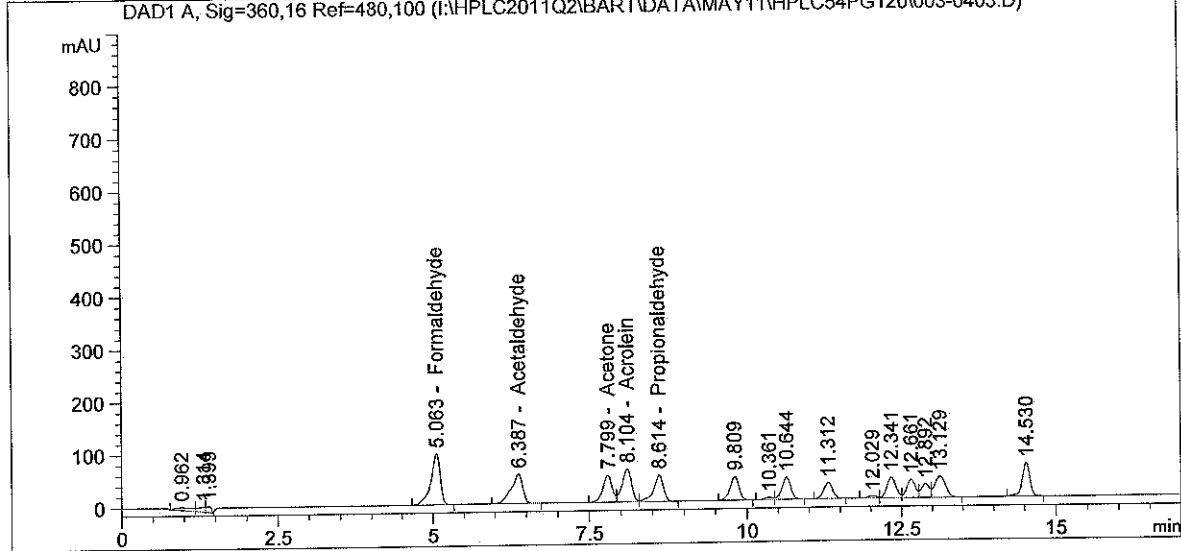
Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: KHB	Seq. Line	: 4
Acq. Instrument	: Bart	Location	: Vial 3
Injection Date	: 5/27/2011 6:42:57 PM	Inj	: 3
		Inj Volume	: 15.000 µl
Acq. Method	: H:\HPLC2011Q2\BART\METHODS\8315ICR.M		
Last changed	: 5/27/2011 3:16:54 PM by KHB		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M		
Last changed	: 5/31/2011 11:21:40 AM by KHB		

DAD1 A, Sig=360,16 Ref=480,100 (I:\HPLC2011Q2\BART\DATA\MAY11\HPLC54PG120\003-0403.D)



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	1002.81152	2.42472e-3	2.43154		Formaldehyde
6.387	BB	713.84320	3.41603e-3	2.43851		Acetaldehyde
7.799	BV	533.12775	4.53790e-3	2.41928		Acetone
8.104	VV	631.16577	3.82784e-3	2.41600		Acrolein
8.614	VB	554.77332	4.41958e-3	2.45187		Propionaldehyde

Totals : 12.15720

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

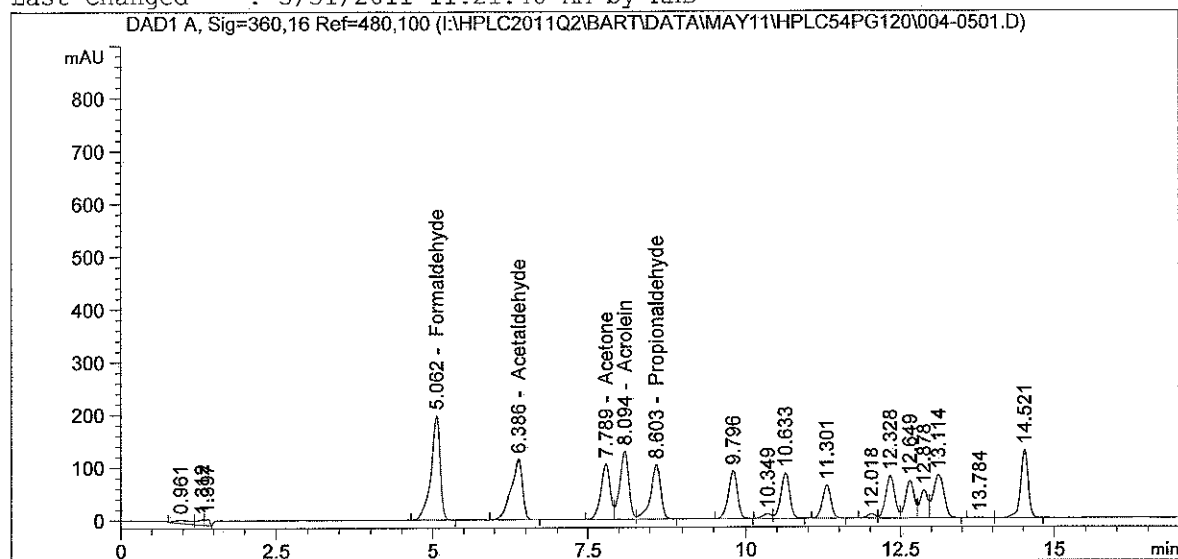
Sample Name: hplc54pg120 #4

```

=====
Acq. Operator   : KHB                      Seq. Line :    5
Acq. Instrument : Bart                    Location  : Vial 4
Injection Date  : 5/27/2011 7:04:36 PM      Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====

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External Standard Report
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Sorted By           :      Signal
Calib. Data Modified :      Tuesday, May 31, 2011 11:20:41 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.062	BB	2044.54797	2.42472e-3	4.95746		Formaldehyde
6.386	BB	1454.89929	3.41603e-3	4.96999		Acetaldehyde
7.789	BV	1085.05432	4.53790e-3	4.92387		Acetone
8.094	VV	1287.47888	3.82784e-3	4.92827		Acrolein
8.603	VB	1130.24646	4.41958e-3	4.99522		Propionaldehyde

Totals : 24.77480

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

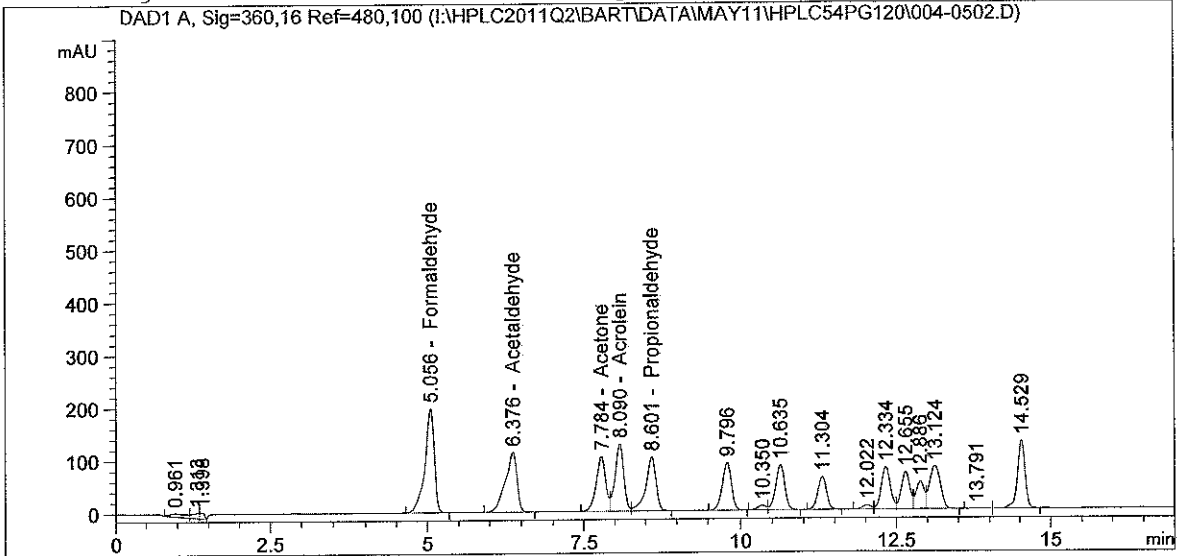
```

=====
*** End of Report ***
=====

```

=====

Acq. Operator	: KHB	Seq. Line	: 5
Acq. Instrument	: Bart	Location	: Vial 4
Injection Date	: 5/27/2011 7:26:13 PM	Inj	: 2
		Inj Volume	: 15.000 µl
Acq. Method	: H:\HPLC2011Q2\BART\METHODS\8315ICR.M		
Last changed	: 5/27/2011 3:16:54 PM by KHB		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M		
Last changed	: 5/31/2011 11:21:40 AM by KHB		



External Standard Report

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.056	BB	2051.84546	2.42472e-3	4.97515		Formaldehyde
6.376	BB	1460.14539	3.41603e-3	4.98791		Acetaldehyde
7.784	BV	1094.21240	4.53790e-3	4.96543		Acetone
8.090	VV	1288.81555	3.82784e-3	4.93339		Acrolein
8.601	VB	1135.35559	4.41958e-3	5.01780		Propionaldehyde

Totals : 24.87967

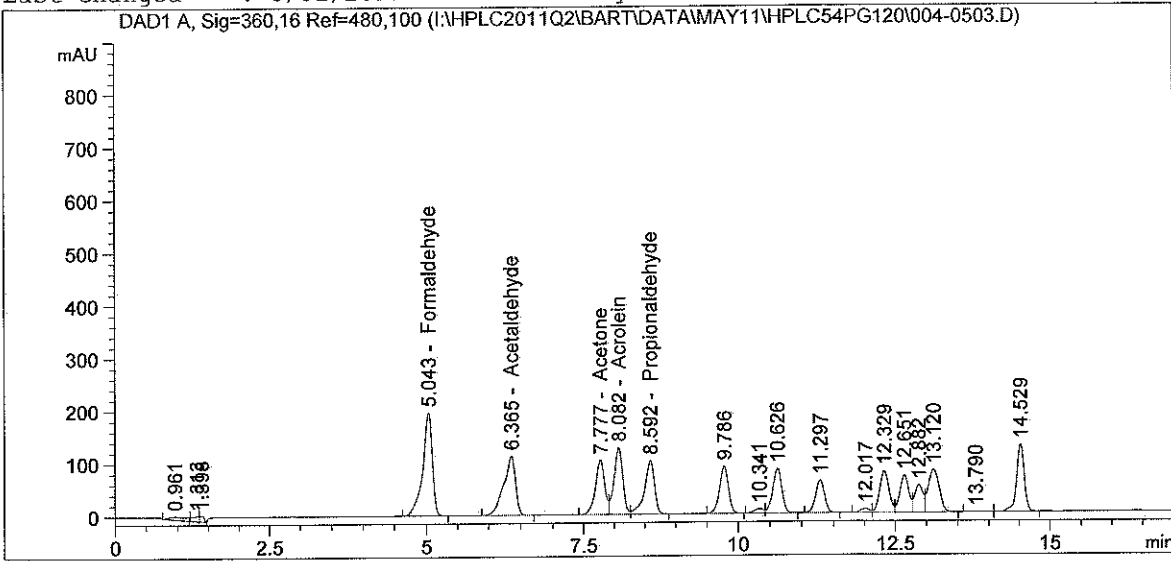
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====
Acq. Operator : KHB Seq. Line : 5
Acq. Instrument : Bart Location : Vial 4
Injection Date : 5/27/2011 7:47:52 PM Inj : 3
 Inj Volume: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB
=====



=====
External Standard Report
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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.043	BB	2051.08740	2.42472e-3	4.97331		Formaldehyde
6.365	BB	1460.08618	3.41603e-3	4.98770		Acetaldehyde
7.777	BV	1097.61902	4.53790e-3	4.98089		Acetone
8.082	VV	1286.53125	3.82784e-3	4.92464		Acrolein
8.592	VB	1134.36035	4.41958e-3	5.01340		Propionaldehyde

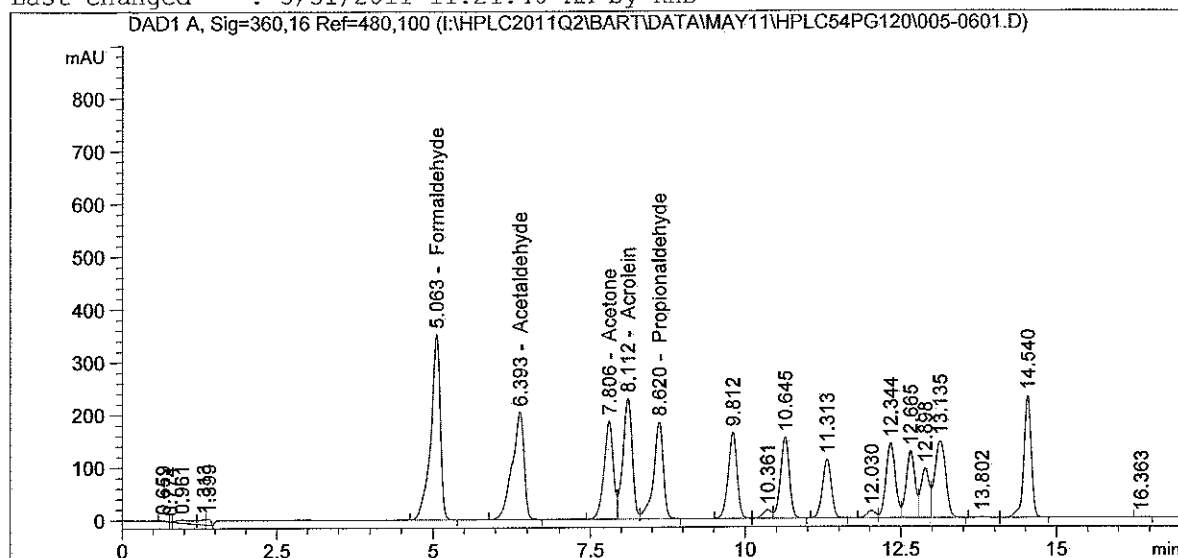
Totals : 24.87994

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====
*** End of Report ***
=====

=====
Acq. Operator : KHB Seq. Line : 6
Acq. Instrument : Bart Location : Vial 5
Injection Date : 5/27/2011 8:09:31 PM Inj : 1
 Inj Volume: 15.000 µl
Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB
=====



=====
External Standard Report
=====

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	3694.70972	2.42472e-3	8.95863		Formaldehyde
6.393	BB	2628.70581	3.41603e-3	8.97975		Acetaldehyde
7.806	BV	1967.23157	4.53790e-3	8.92711		Acetone
8.112	VV	2322.37964	3.82784e-3	8.88971		Acrolein
8.620	VB	2043.09290	4.41958e-3	9.02961		Propionaldehyde

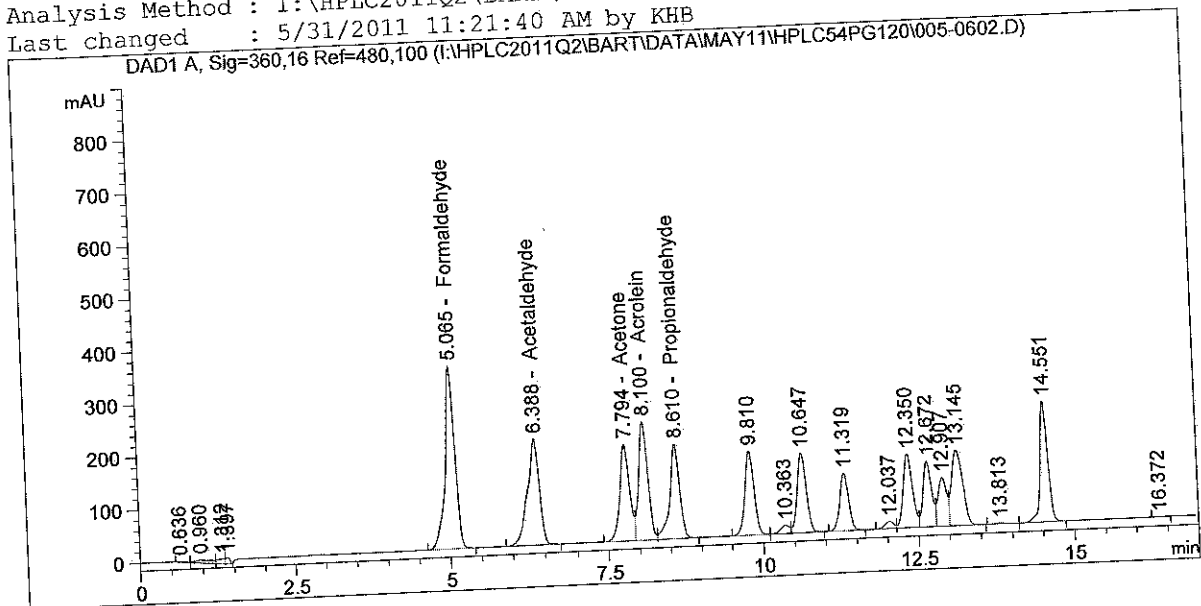
Totals : 44.78481

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====
*** End of Report ***
=====

Acq. Operator : KHB
Acq. Instrument : Bart
Injection Date : 5/27/2011 8:31:10 PM
Seq. Line : 6
Location : Vial 5
Inj : 2
Inj Volume : 15.000 µl
Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



External Standard Report

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.065	BB	3663.10767	2.42472e-3	8.88201		Formaldehyde
6.388	BB	2602.87476	3.41603e-3	8.89151		Acetaldehyde
7.794	BV	1958.41614	4.53790e-3	8.88710		Acetone
8.100	VV	2293.68091	3.82784e-3	8.77985		Acrolein
8.610	VB	2025.27539	4.41958e-3	8.95087		Propionaldehyde

Totals : 44.39134

1 Warnings or Errors :

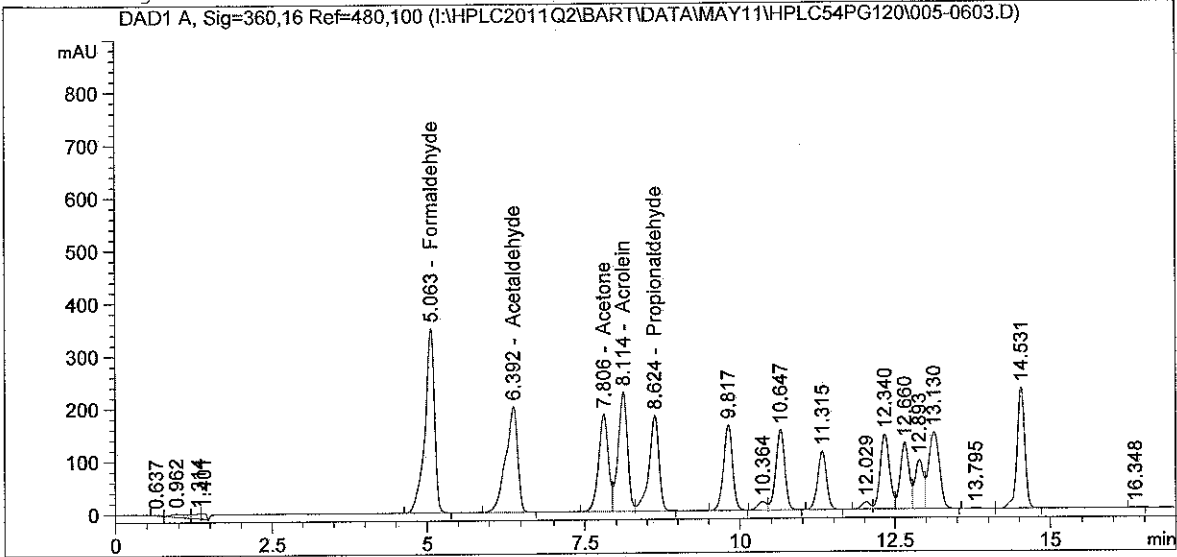
Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: KHB	Seq. Line	: 6
Acq. Instrument	: Bart	Location	: Vial 5
Injection Date	: 5/27/2011 8:52:48 PM	Inj	: 3
		Inj Volume	: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.063	BB	3707.37524	2.42472e-3	8.98934		Formaldehyde
6.392	BB	2634.36401	3.41603e-3	8.99908		Acetaldehyde
7.806	BV	1976.71411	4.53790e-3	8.97014		Acetone
8.114	VV	2329.74268	3.82784e-3	8.91789		Acrolein
8.624	VB	2048.48218	4.41958e-3	9.05343		Propionaldehyde

Totals : 44.92989

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

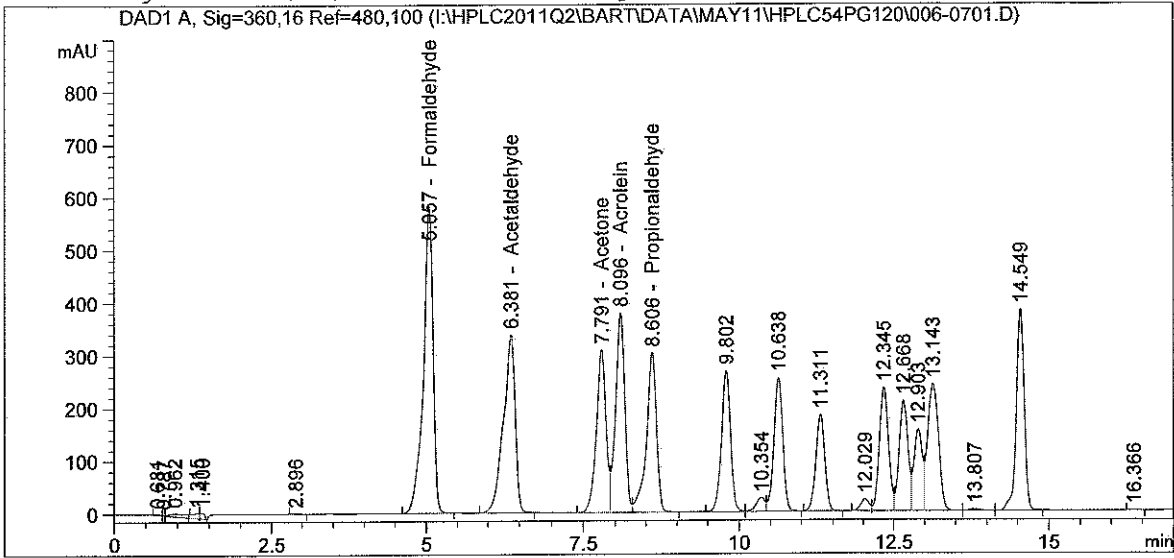
=====

*** End of Report ***

=====

Acq. Operator	: KHB	Seq. Line	: 7
Acq. Instrument	: Bart	Location	: Vial 6
Injection Date	: 5/27/2011 9:14:25 PM	Inj	: 1
		Inj Volume	: 15.000 µl
Acq. Method	: H:\HPLC2011Q2\BART\METHODS\8315ICR.M		
Last changed	: 5/27/2011 3:16:54 PM by KHB		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M		
Last changed	: 5/31/2011 11:21:40 AM by KHB		

DAD1 A, Sig=360,16 Ref=480,100 (I:\HPLC2011Q2\BART\DATA\MAY11\HPLC54PG120\006-0701.D)



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.057	BB	6163.41943	2.42472e-3	14.94456		Formaldehyde
6.381	BB	4384.52734	3.41603e-3	14.97769		Acetaldehyde
7.791	BV	3290.95898	4.53790e-3	14.93406		Acetone
8.096	VV	3868.78564	3.82784e-3	14.80911		Acrolein
8.606	VB	3406.74805	4.41958e-3	15.05640		Propionaldehyde

Totals : 74.72182

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

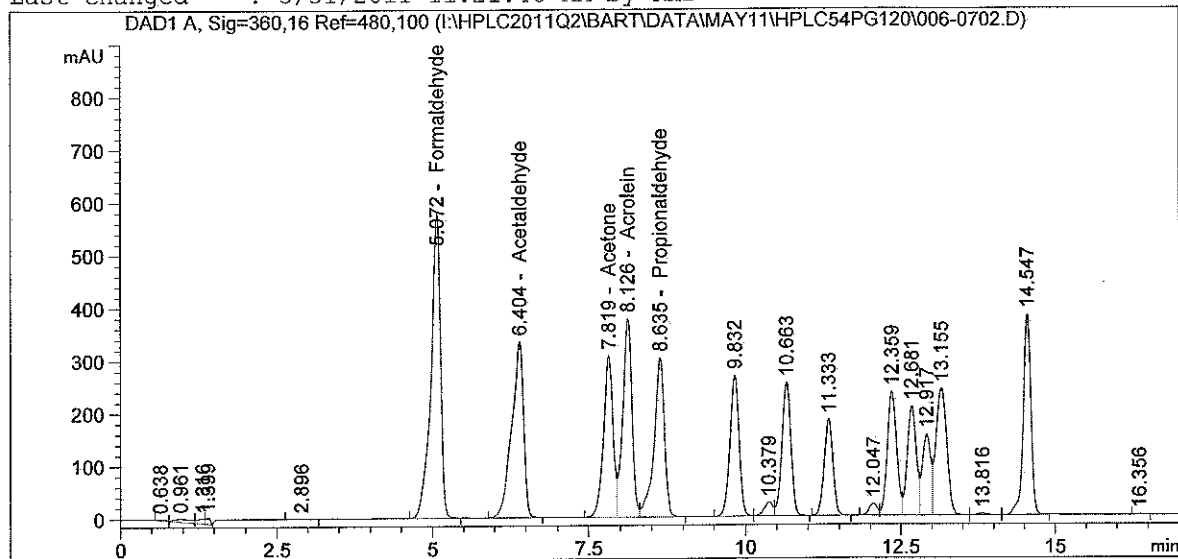
=====

*** End of Report ***

=====

Acq. Operator	: KHB	Seq. Line	: 7
Acq. Instrument	: Bart	Location	: Vial 6
Injection Date	: 5/27/2011 9:36:05 PM	Inj	: 2
		Inj Volume	: 15.000 µl

Acq. Method : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed : 5/31/2011 11:21:40 AM by KHB



=====

External Standard Report

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Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.072	BB	6128.59717	2.42472e-3	14.86013		Formaldehyde
6.404	BB	4362.37842	3.41603e-3	14.90203		Acetaldehyde
7.819	BV	3252.63745	4.53790e-3	14.76016		Acetone
8.126	VV	3856.25903	3.82784e-3	14.76116		Acrolein
8.635	VB	3395.85425	4.41958e-3	15.00825		Propionaldehyde

Totals : 74.29173

1 Warnings or Errors :

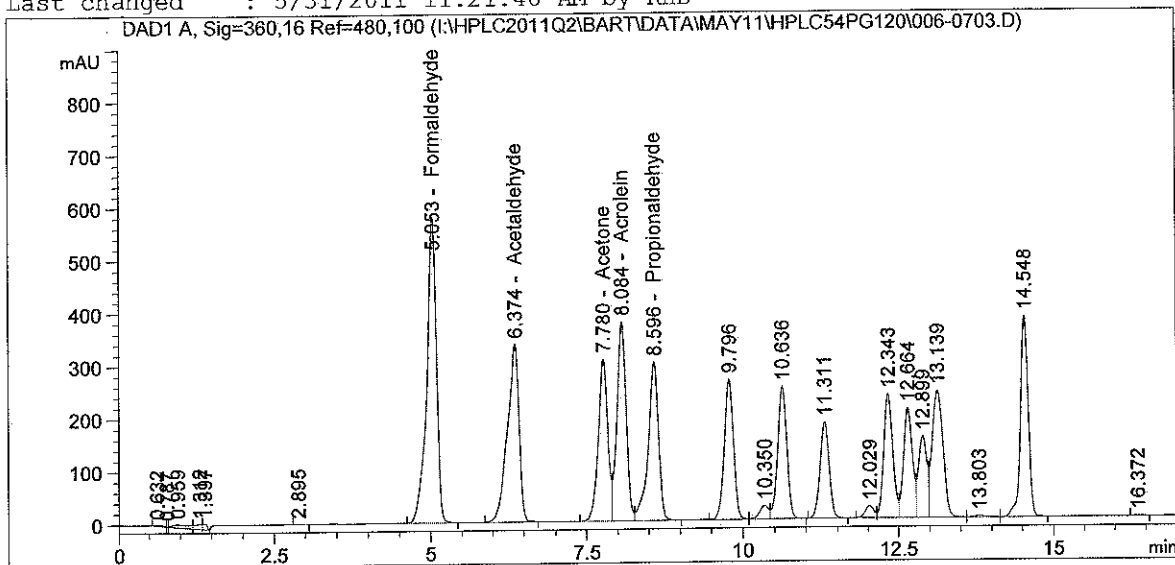
Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

=====

Acq. Operator	: KHB	Seq. Line	: 7
Acq. Instrument	: Bart	Location	: Vial 6
Injection Date	: 5/27/2011 9:57:44 PM	Inj	: 3
		Inj Volume	: 15.000 µl
Acq. Method	: H:\HPLC2011Q2\BART\METHODS\8315ICR.M		
Last changed	: 5/27/2011 3:16:54 PM by KHB		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M		
Last changed	: 5/31/2011 11:21:40 AM by KHB		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.053	BB	6167.54736	2.42472e-3	14.95457		Formaldehyde
6.374	BB	4389.73730	3.41603e-3	14.99549		Acetaldehyde
7.780	BV	3286.98657	4.53790e-3	14.91603		Acetone
8.084	VV	3878.68140	3.82784e-3	14.84699		Acrolein
8.596	VB	3422.71704	4.41958e-3	15.12697		Propionaldehyde

Totals : 74.84006

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

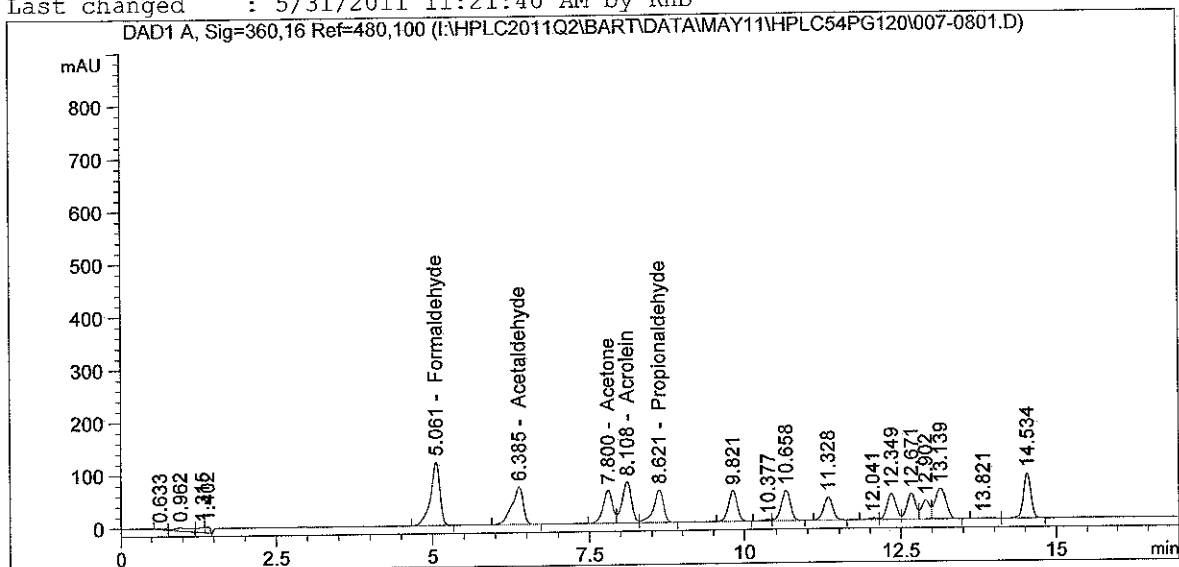
*** End of Report ***

```

Acq. Operator   : KHB                      Seq. Line :    8
Acq. Instrument : Bart                    Location  : Vial 7
Injection Date  : 5/27/2011 10:19:22 PM  Inj       :    1
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB

```



External Standard Report

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.061	BB	1265.50842	2.42472e-3	3.06850		Formaldehyde
6.385	BB	910.46594	3.41603e-3	3.11018		Acetaldehyde
7.800	BV	673.00220	4.53790e-3	3.05402		Acetone
8.108	VV	804.38818	3.82784e-3	3.07907		Acrolein
8.621	VB	697.69531	4.41958e-3	3.08352		Propionaldehyde

Totals : 15.39530

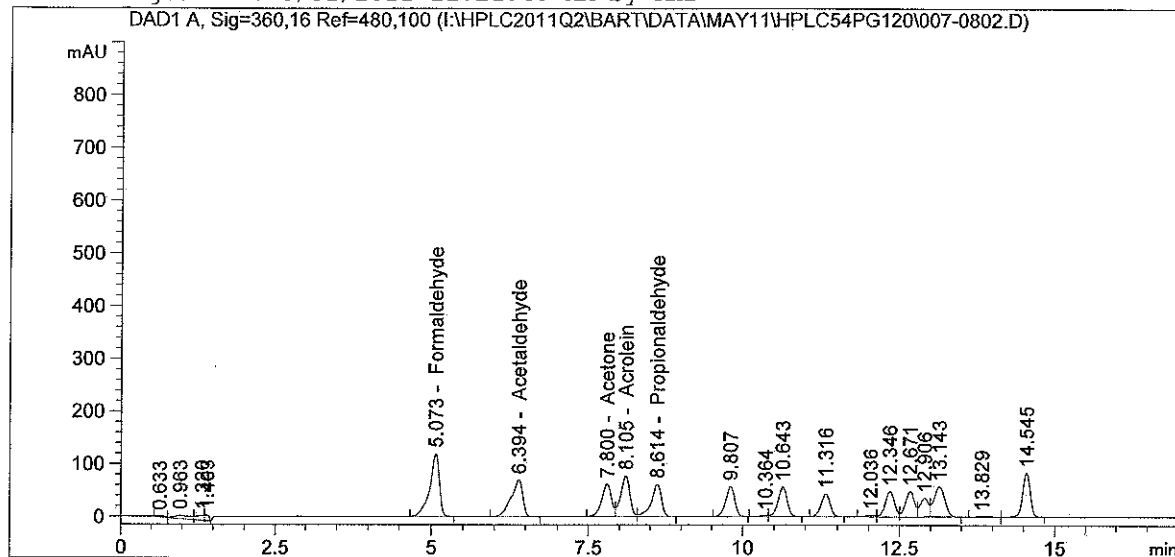
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
=====
Acq. Operator   : KHB                      Seq. Line :    8
Acq. Instrument : Bart                    Location  : Vial 7
Injection Date  : 5/27/2011 10:40:59 PM    Inj       :    2
                                           Inj Volume: 15.000 µl

Acq. Method     : H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Last changed    : 5/27/2011 3:16:54 PM by KHB
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120.M
Last changed    : 5/31/2011 11:21:40 AM by KHB
=====
```



```
=====
External Standard Report
=====
```

Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

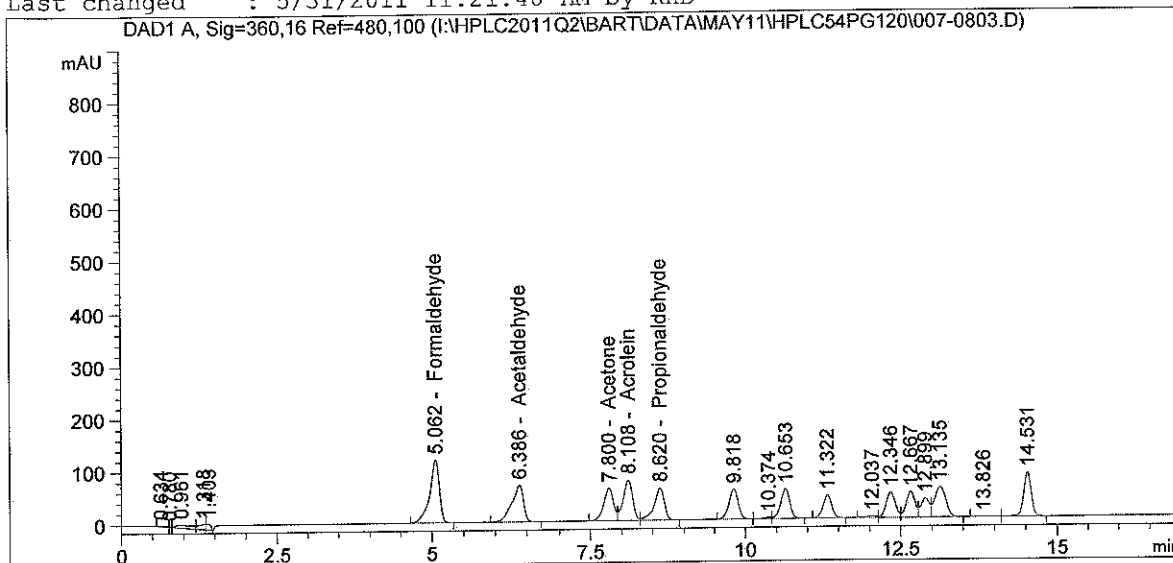
RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.073	BB	1264.89819	2.42472e-3	3.06702		Formaldehyde
6.394	BB	909.70721	3.41603e-3	3.10759		Acetaldehyde
7.800	BV	676.37134	4.53790e-3	3.06931		Acetone
8.105	VV	800.74591	3.82784e-3	3.06513		Acrolein
8.614	VB	697.62158	4.41958e-3	3.08319		Propionaldehyde

Totals : 15.39225

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

```
=====
*** End of Report ***
=====
```



Sorted By : Signal
Calib. Data Modified : Tuesday, May 31, 2011 11:20:41 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.062	BB	1263.88220	2.42472e-3	3.06456		Formaldehyde
6.386	BB	908.57458	3.41603e-3	3.10372		Acetaldehyde
7.800	BV	674.59912	4.53790e-3	3.06127		Acetone
8.108	VV	800.84680	3.82784e-3	3.06552		Acrolein
8.620	VB	695.49054	4.41958e-3	3.07378		Propionaldehyde

Totals : 15.36884

1 Warnings or Errors :

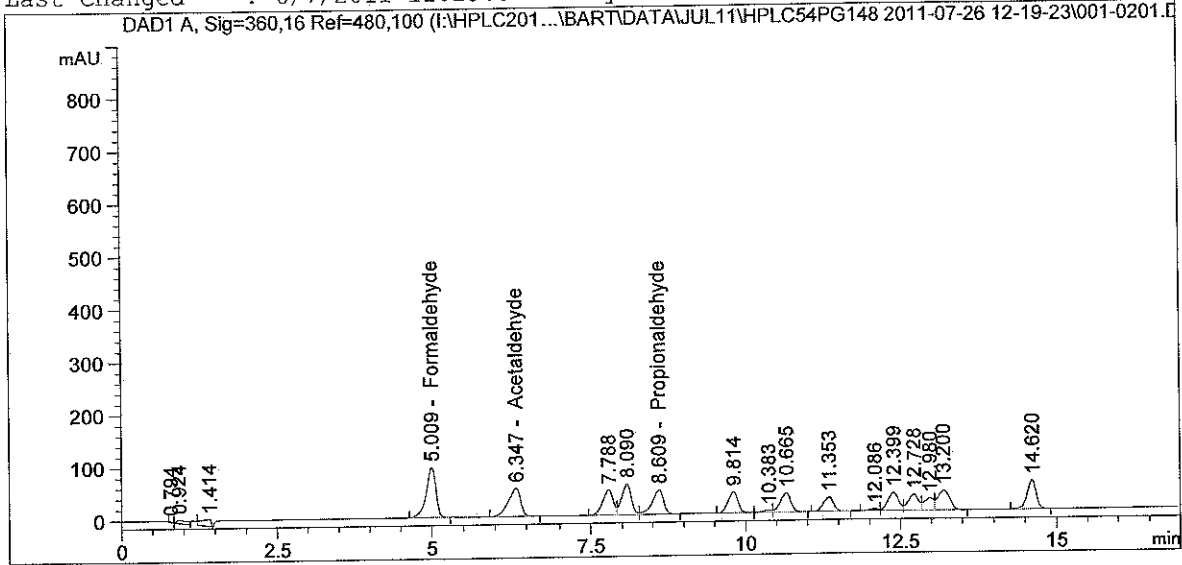
Warning : Calibration warnings (see calibration table listing)

EA# 0611-102 Page 63 of 81

```

=====
Acq. Operator   : Kristen Bounds                      Seq. Line :    2
Acq. Instrument : Bart                               Location  : Vial 1
Injection Date  : 7/26/2011 12:42:20 PM              Inj       :    1
                                                    Inj Volume: 15.0 µl
Acq. Method     : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed    : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed    : 6/7/2011 11:29:37 AM by KHB
=====

```



External Standard Report

```

Sorted By      :      Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier:    :      1.0000
Dilution:      :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
5.009	BB	1010.12061	2.42472e-3	2.44926		Formaldehyde
6.347	BB	736.45422	3.41603e-3	2.51575		Acetaldehyde
8.609	VB	571.26624	4.41958e-3	2.52476		Propionaldehyde

Totals : 7.48977

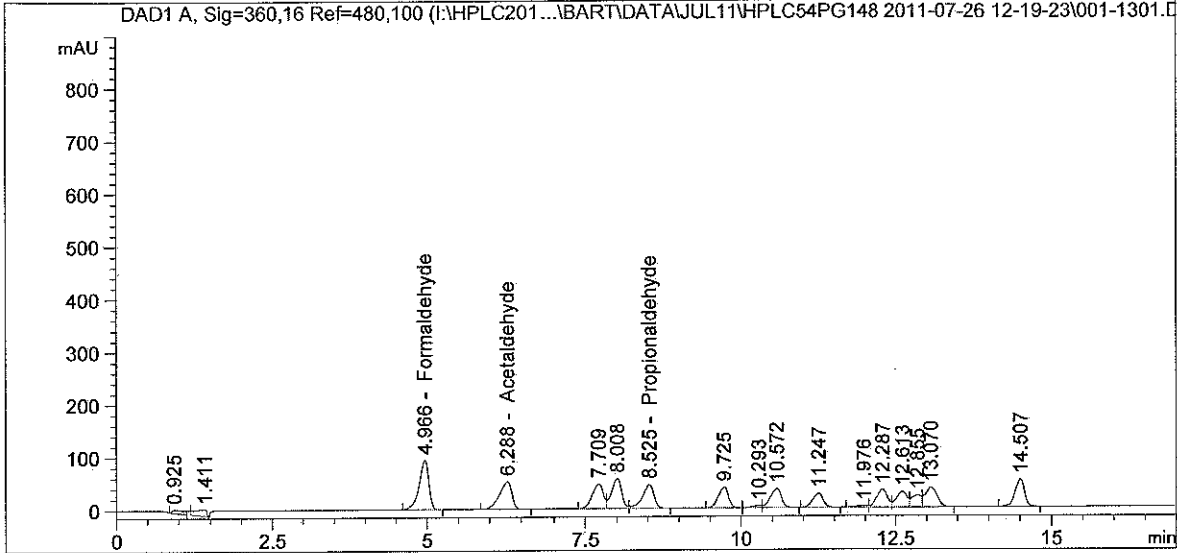
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 13
Acq. Instrument	: Bart	Location	: Vial 1
Injection Date	: 7/26/2011 4:38:36 PM	Inj	: 1
		Inj Volume	: 15.0 µl
Acq. Method	: C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M		
Last changed	: 6/23/2011 6:03:33 PM by System		
Analysis Method	: I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M		
Last changed	: 6/7/2011 11:29:37 AM by KHB		



=====

External Standard Report

=====

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime	Type	Area	Amt/Area	Amount	Grp	Name
[min]		[mAU*s]		[ug/mL]		
4.966	BB	1011.46973	2.42472e-3	2.45253		Formaldehyde
6.288	BB	735.30280	3.41603e-3	2.51182		Acetaldehyde
8.525	VB	569.44415	4.41958e-3	2.51670		Propionaldehyde

Totals : 7.48105

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

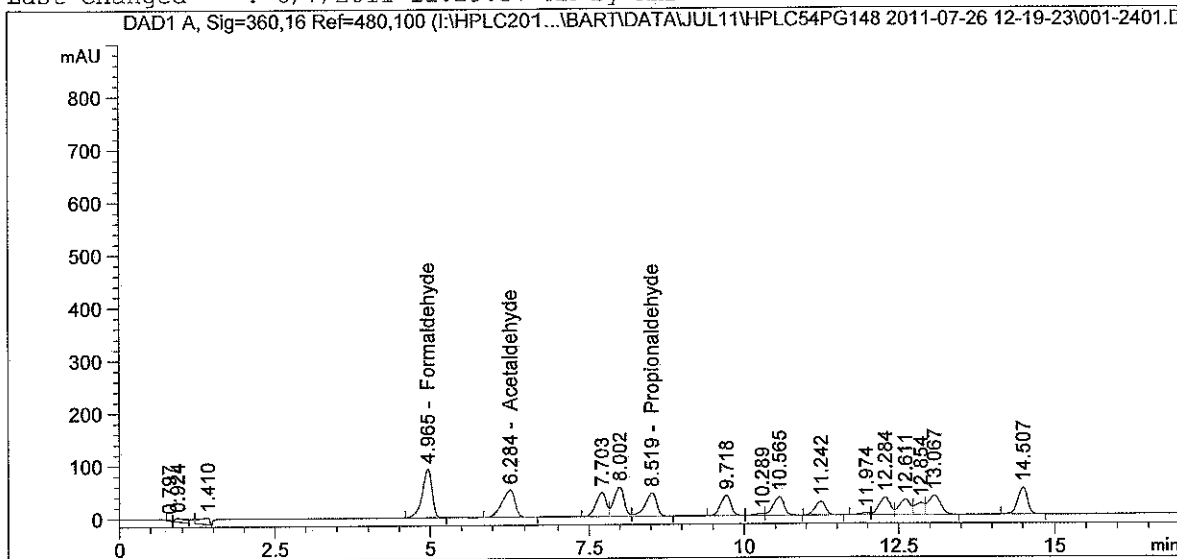
=====

*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 24
Acq. Instrument	: Bart	Location	: Vial 1
Injection Date	: 7/26/2011 8:34:57 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.965	BB	1011.19934	2.42472e-3	2.45187		Formaldehyde
6.284	BB	734.68768	3.41603e-3	2.50972		Acetaldehyde
8.519	VB	568.77008	4.41958e-3	2.51373		Propionaldehyde

Totals : 7.47532

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

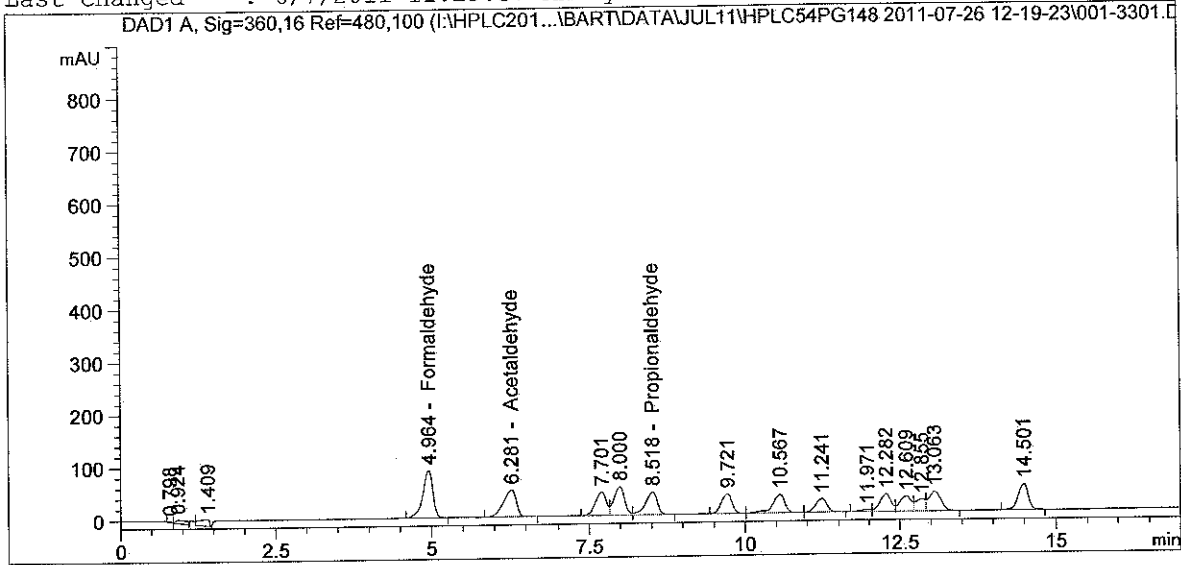
=====

*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 33
Acq. Instrument	: Bart	Location	: Vial 1
Injection Date	: 7/26/2011 11:48:13 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG148 2011-07-26 12-19-23\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



External Standard Report

Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime	Type	Area	Amt/Area	Amount	Grp	Name
[min]		[mAU*s]		[ug/mL]		
4.964	BB	1010.30664	2.42472e-3	2.44971		Formaldehyde
6.281	BB	733.69464	3.41603e-3	2.50633		Acetaldehyde
8.518	VB	568.50104	4.41958e-3	2.51254		Propionaldehyde

Totals : 7.46857

1 Warnings or Errors :

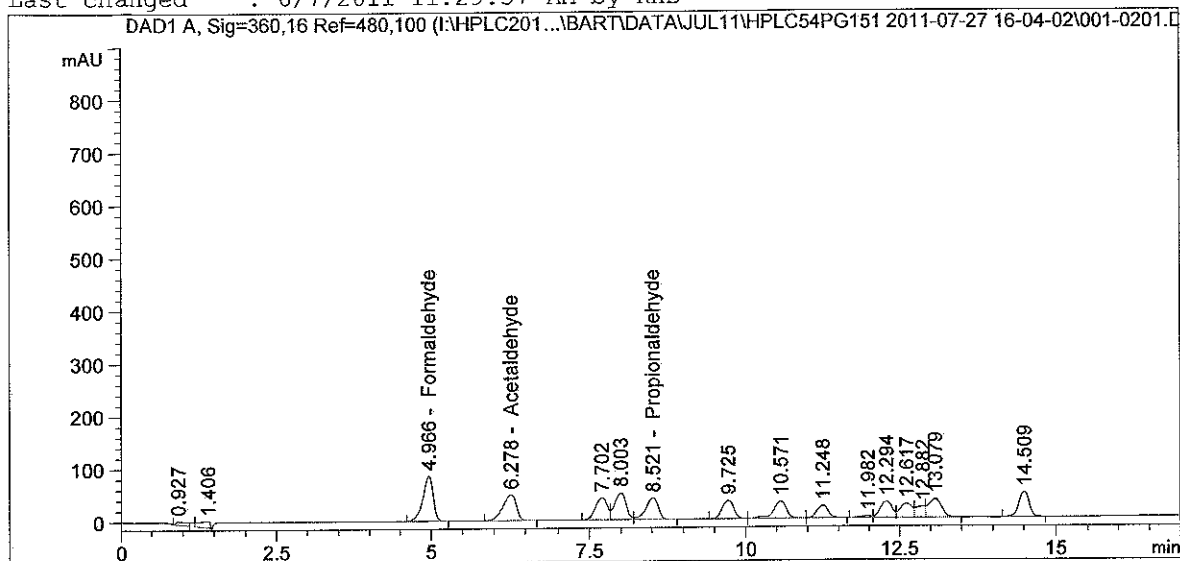
Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

=====

Acq. Operator	: Kristen Bounds	Seq. Line	: 2
Acq. Instrument	: Bart	Location	: Vial 1
Injection Date	: 7/27/2011 4:27:21 PM	Inj	: 1
		Inj Volume	: 15.0 µl

Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M
Last changed : 6/23/2011 6:03:33 PM by System
Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
Last changed : 6/7/2011 11:29:37 AM by KHB



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 6/7/2011 11:27:58 AM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.966	BB	998.65967	2.42472e-3	2.42147		Formaldehyde
6.278	BB	725.02509	3.41603e-3	2.47671		Acetaldehyde
8.521	VB	562.07263	4.41958e-3	2.48413		Propionaldehyde

Totals : 7.38230

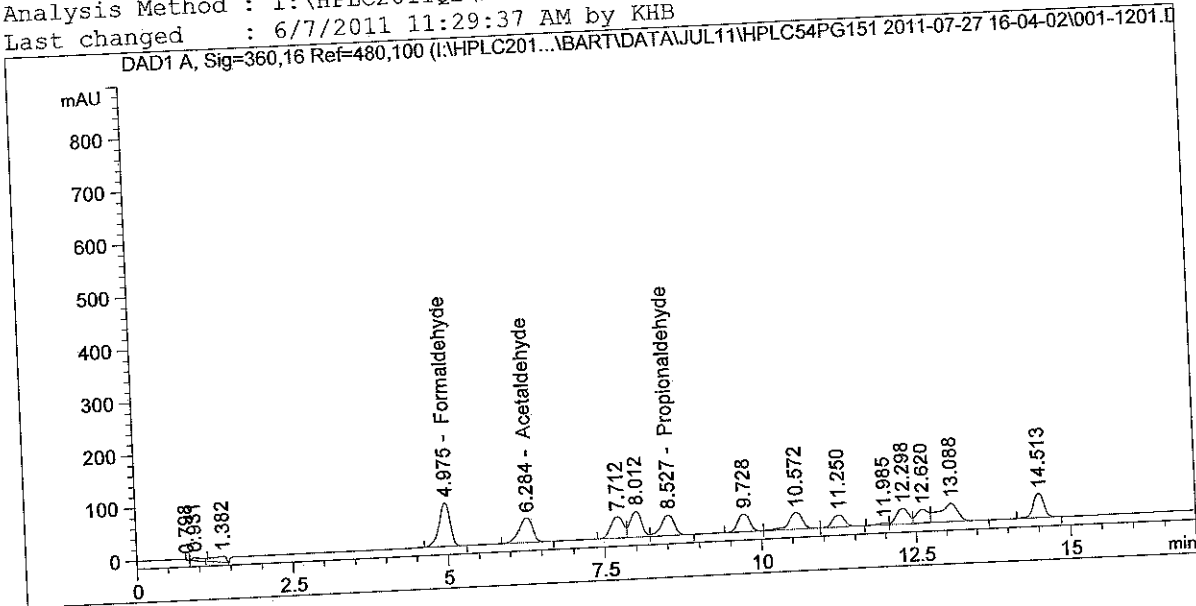
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

=====

*** End of Report ***

Acq. Operator : Kristen Bounds
 Acq. Instrument : Bart
 Injection Date : 7/27/2011 8:02:05 PM
 Acq. Method : C:\HPLC2011Q2\BART\DATA\JUN11\HPLC54PG151 2011-07-27 16-04-02\8315ICR.M
 Last changed : 6/23/2011 6:03:33 PM by System
 Analysis Method : I:\HPLC2011Q2\BART\METHODS\HPLC54PG120ICR.M
 Last changed : 6/7/2011 11:29:37 AM by KHB



External Standard Report

Sorted By : Signal
 Calib. Data Modified : 6/7/2011 11:27:58 AM
 Multiplier: : 1.0000
 Dilution: : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime [min]	Type	Area [mAU*s]	Amt/Area	Amount [ug/mL]	Grp	Name
4.975	BB	1005.14062	2.42472e-3	2.43718		Formaldehyde
6.284	BB	728.22705	3.41603e-3	2.48765		Acetaldehyde
8.527	VB	564.02472	4.41958e-3	2.49275		Propionaldehyde

7.41758

Totals :

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

*** End of Report ***

```
=====
                        Calibration Table
=====
```

Calib. Data Modified : 6/7/2011 11:27:58 AM

Rel. Reference Window : 5.000 %
 Abs. Reference Window : 0.000 min
 Rel. Non-ref. Window : 5.000 %
 Abs. Non-ref. Window : 0.000 min
 Uncalibrated Peaks : not reported
 Partial Calibration : Yes, identified peaks are recalibrated
 Correct All Ret. Times: No, only for identified peaks

Curve Type : Average Response/Amount
 Origin : Ignored
 Weight : Equal

Recalibration Settings:
 Average Response : Average all calibrations
 Average Retention Time: Floating Average New 75%

Calibration Report Options :
 Printout of recalibrations within a sequence:
 Calibration Table after Recalibration
 Normal Report after Recalibration
 If the sequence is done with bracketing:
 Results of first cycle (ending previous bracket)

Signal 1: DAD1 A, Sig=360,16 Ref=480,100

RetTime	Lvl	Amount	Area	Amt/Area	Ref Grp Name
[min]	Sig	[ug/mL]			
5.057	1	7.47000e-2	30.61963	2.43961e-3	Formaldehyde
	2	7.15000e-1	310.99482	2.29907e-3	
	3	2.50000	1000.60588	2.49849e-3	
	4	5.00000	2049.16028	2.44002e-3	
	5	9.01000	3688.39754	2.44280e-3	
	6	15.00000	6153.18799	2.43776e-3	
6.380	1	7.47000e-2	21.60617	3.45735e-3	Acetaldehyde
	2	7.15000e-1	220.44158	3.24349e-3	
	3	2.50000	712.11804	3.51065e-3	
	4	5.01000	1458.37695	3.43533e-3	
	5	9.01000	2621.98153	3.43633e-3	
	6	15.00000	4378.88102	3.42553e-3	
8.604	1	7.46000e-2	16.01441	4.65831e-3	Propionaldehyde
	2	7.14000e-1	171.99996	4.15116e-3	
	3	2.50000	553.96212	4.51294e-3	
	4	5.00000	1133.32080	4.41181e-3	
	5	9.00000	2038.95015	4.41404e-3	
	6	15.00000	3408.43978	4.40084e-3	

1 Warnings or Errors :

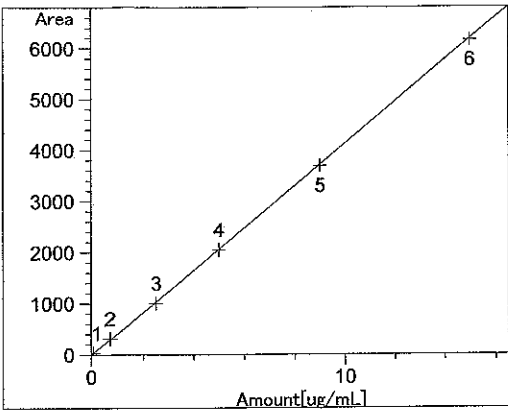
Warning : Overlapping peak time windows at 8.604 min, signal 1

```
=====
                        Peak Sum Table
=====
```

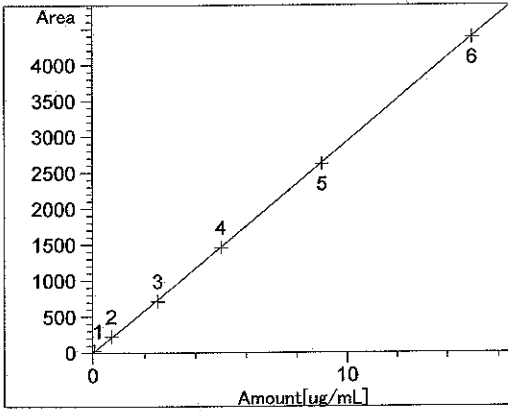
No Entries in table

EA# 0611-102 Page 70 of 81

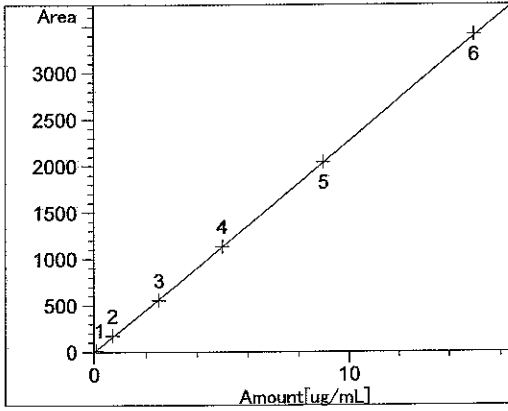
Calibration Curves



Formaldehyde at exp. RT: 5.057
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 28.30642
Formula: $y = mx$
m: 412.41885
x: Amount
y: Area



Acetaldehyde at exp. RT: 6.380
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 15.58800
Formula: $y = mx$
m: 292.73714
x: Amount
y: Area



Propionaldehyde at exp. RT: 8.604
DAD1 A, Sig=360,16 Ref=480,100
Correlation: 0.99998
Residual Std. Dev.: 10.79580
Formula: $y = mx$
m: 226.26583
x: Amount
y: Area

method: H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Modified on: 5/27/2011 at 3:16:54 PM

Method Information

Method: H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Modified: 5/27/2011 at 3:16:54 PM

Column: Restek Ultra C18, 4*150mm
Mobile Phase: 59:30:10:1 DIUF H2O:ACN:THF:IPA to 100% ACN on a
gradient
Flow rate: 1.2 mL/min
UV Detection at 360 nm

=====

Agilent 1100/1200 Quaternary Pump 1

=====

Control

Column Flow : 1.200 ml/min
Stoptime : 17.00 min
Posttime : 3.00 min

Solvents

Solvent A : 100.0 % (59:30:10:1 DI:ACN:THF:IPA)
Solvent B : 0.0 % (100% ACN)
Solvent C : Off
Solvent D : Off

PressureLimits

Minimum Pressure : 0 bar
Maximum Pressure : 400 bar

Auxiliary

Maximal Flow Ramp : 100.00 ml/min^2
Primary Channel : Auto
Compressibility : 83×10^{-6} /bar
Minimal Stroke : Auto

Store Parameters

Store Ratio A : Yes
Store Ratio B : Yes
Store Ratio C : Yes
Store Ratio D : Yes
Store Flow : Yes
Store Pressure : Yes

Agilent Contacts Option

=====

Contact 1 : Open
Contact 2 : Open
Contact 3 : Open
Contact 4 : Open

Timetable

Time	Solv.B	Solv.C	Solv.D	Flow	Pressure
0.00	0.0	0.0	0.0		
0.10	0.0	0.0	0.0		
12.00	50.0	0.0	0.0		
17.00	100.0	0.0	0.0		

Agilent Contacts Option Timetable

=====

Timetable is empty

=====

Agilent 1100/1200 Diode Array Detector 1

=====

method: H:\HPLC2011Q2\BART\METHODS\8315ICR.M
Modified on: 5/27/2011 at 3:16:54 PM
Signals

Signal	Store	Signal,Bw	Reference,Bw	[nm]
A:	Yes	360 16	480 100	
B:	No	254 16	360 100	
C:	No	218 8	360 100	
D:	No	230 16	360 100	
E:	No	280 16	360 100	

Spectrum

Store Spectra : None

Time

Stoptime : As pump
Posttime : Off

Required Lamps

UV lamp required : Yes
Vis lamp required : Yes

Autobalance

Prerun balancing : Yes
Postrun balancing : No
Margin for negative Absorbance: 100 mAU

Peakwidth : > 0.1 min
Slit : 4 nm

Analog Outputs

Zero offset ana. out. 1: 5 %
Zero offset ana. out. 2: 5 %
Attenuation ana. out. 1: 1000 mAU
Attenuation ana. out. 2: 1000 mAU

Agilent Contacts Option

=====

Contact 1 : Open
Contact 2 : Open
Contact 3 : Open
Contact 4 : Open

=====

Agilent 1100 Autosampler 1

=====

Injection

Injection Mode : Needle Wash
Injector volume : 15.00 µl
Wash Vial : 100
Optimization : Prefetch Sample Vial
8.00 min. after Injection

Auxiliary

Drawspeed : 100 µl/min
Ejectspeed : 1000 µl/min
Draw position : 2.0 mm

Time

Stoptime : As Pump
Posttime : Off

EA# 0611-102 Page 74 of 81

=====

Agilent 1100/1200 Column Thermostat 1

=====

Temperature settings

Left temperature : 30.0°C
Right temperature : Same as left
Enable analysis : When Temp. is within setpoint +/- 0.8°C
Store left temperature : No
Store right temperature: No

Time

Stoptime : As pump
Posttime : Off

Column Switching Valve : Column 1

Timetable is empty

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
1	Vial 8	RB/100% ACN	8315ICR	1	Sample	
2	Vial 1	hplc54pg120 #1	8315ICR	3	Sample	
3	Vial 2	hplc54pg120 #2	8315ICR	3	Sample	
4	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
5	Vial 4	hplc54pg120 #4	8315ICR	3	Sample	
6	Vial 5	hplc54pg120 #5	8315ICR	3	Sample	
7	Vial 6	hplc54pg120 #6	8315ICR	3	Sample	
8	Vial 7	hplc54pg120 #SS	8315ICR	3	Sample	
9	Vial 8	RB/100% ACN	8315ICR	3	Sample	
10	Vial 11	052011-0011U-1-1 11-68	05 8315ICR	1	Sample	
11	Vial 11	052011-0011U-1-1 11-68	05 8315ICR	1	Sample	
12	Vial 12	052011-0011U-1-1 LD 0511-68	8315ICR	1	Sample	
13	Vial 13	052011-0011U-1-2 11-68	05 8315ICR	1	Sample	
14	Vial 14	052011-0011U-1-3 11-68	05 8315ICR	1	Sample	
15	Vial 15	052011-0011S-1-1 11-68	05 8315ICR	1	Sample	
16	Vial 16	052011-0011-FieldSpi ke 0511-68	8315ICR	1	Sample	
17	Vial 17	052011-0011-Sample B L 0511-68	8315ICR	1	Sample	
18	Vial 18	052011-0011-DM/H2O B L 0511-68	8315ICR	1	Sample	
19	Vial 19	MB-1 0511-68	8315ICR	1	Sample	
20	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
21	Vial 20	LCS-1 0511-68	8315ICR	1	Sample	
22	Vial 21	ZRT LCS-1	8315ICR	1	Sample	
23	Vial 22	ZRT LCS-2	8315ICR	1	Sample	

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
24	Vial 23	ZRT LCS-3	8315ICR	1	Sample	
25	Vial 24	ZRT LCS-4	8315ICR	1	Sample	
26	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
27	Vial 9	hplc54pg120 #MDL 1	8315ICR	8	Sample	
28	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	
29	Vial 9	hplc54pg120 #MDL 1	8315ICR	8	Sample	
30	Vial 10	hplc54pg120 #MDL 2	8315ICR	8	Sample	
31	Vial 3	hplc54pg120 #3	8315ICR	3	Sample	

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
1	Vial 2	RB/100% ACN	8315ICR	1	Sample	
2	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
3	Vial 2	RB/100% ACN	8315ICR	1	Sample	
4	Vial 41	M0011-R1-FHR 0611-1 02	8315ICR	1	Sample	
5	Vial 41	M0011-R1-FHR 0611-1 02	8315ICR	1	Sample	
6	Vial 42	LD/M0011-R1-FHR 061 1-102	8315ICR	1	Sample	
7	Vial 43	M0011-R2-FHR 0611-1 02	8315ICR	1	Sample	
8	Vial 44	M0011-R3-FHR 0611-1 02	8315ICR	1	Sample	
9	Vial 45	M0011-Spike 0611-10 2	8315ICR	1	Sample	
10	Vial 46	M0011-DNPH RgtBlk 0 611-102	8315ICR	1	Sample	
11	Vial 47	M0011-MeCl2 RgtBlk 0611-102	8315ICR	1	Sample	
12	Vial 48	R1-FH-Imp 1-3 0611- 48	8315ICR	1	Sample	
13	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
14	Vial 48	R1-FH-Imp 1-3 0611- 48	8315ICR	1	Sample	
15	Vial 49	LD/R1-FH-Imp 1-3 06 11-48	8315ICR	1	Sample	
16	Vial 50	R2-FH-Imp 1-3 0611- 48	8315ICR	1	Sample	
17	Vial 51	R3-FH-Imp 1-3 0611- 48	8315ICR	1	Sample	
18	Vial 52	MS-FH-Imp 1-3 0611- 48	8315ICR	1	Sample	
19	Vial 53	Field Spike 0611-48	8315ICR	1	Sample	
20	Vial 54	Blank-DNPH/MeCl2 06 11-48	8315ICR	1	Sample	

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
21	Vial 55	Blank-DI Water -48	0611 8315ICR	1	Sample	
22	Vial 56	1081-1-1001-R1-A&B 0711-25	8315ICR	1	Sample	
23	Vial 56	1081-1-1001-R1-A&B 0711-25	8315ICR	1	Sample	
24	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
25	Vial 57	LD/1081-1-1001-R1-A& B 0711-25	8315ICR	1	Sample	
26	Vial 58	1081-1-1002-R2-A&B 0711-25	8315ICR	1	Sample	
27	Vial 59	1081-1-1003-B3-A&B 0711-25	8315ICR	1	Sample	
28	Vial 60	1081-0-1001-Recovery Area 0711-25	8315ICR	1	Sample	
29	Vial 61	1081-2-1001-FB1 1-25	071 8315ICR	1	Sample	
30	Vial 62	1081-2-1002-FB2 1-25	071 8315ICR	1	Sample	
31	Vial 63	MB-1	8315ICR	1	Sample	
32	Vial 64	LCS-1	8315ICR	1	Sample	
33	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	

Sequence Table:

Method and Injection Info Part:

Line	Location	SampleName DataFile	Method AutoBalance	Inj LimsID	SampleType	InjVolume
1	Vial 2	RB/100% ACN	8315ICR	1	Sample	
2	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	
3	Vial 2	RB/100% ACN	8315ICR	1	Sample	
4	Vial 12	MS/M0011-R2-FHR 061 1-102	8315ICR	1	Sample	
5	Vial 13	MSD/M0011-R2-FHR 06 11-102	8315ICR	1	Sample	
6	Vial 14	MS/R2-FH-Imp 1-3 06 11-48	8315ICR	1	Sample	
7	Vial 15	MSD/R2-FH-Imp 1-3 0 611-48	8315ICR	1	Sample	
8	Vial 16	MS/1081-1-1002-R2-A& B 0711-25	8315ICR	1	Sample	
9	Vial 17	MSD/1081-1-1002-R2-A &B 0711-25	8315ICR	1	Sample	
10	Vial 18	MB-2	8315ICR	1	Sample	
11	Vial 19	LCS-2	8315ICR	1	Sample	
12	Vial 1	hplc54pg146 #3	8315ICR	1	Sample	

**This Is The Last Page
Of This Report.**

