

For the benefit of VaporFi, Inc.

Sample  
RM080514

Analytical Report  
(0814-52B)

***HPLC/UV Analysis***

Acetaldehyde, Acrolein, Crotonaldehyde, Formaldehyde

***GC/MS/MS Analysis***

1-Aminonaphthalene, 2-Aminonaphthalene, 4-Aminobiphenyl



**Enthalpy Analytical, Inc.**

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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 97 pages.

Report Issued: 09/16/2014



# Summary of Results



Report for: For the benefit of VaporFi, Inc.  
 Client Project: RM02 & HPHC Testing  
 Sample Type: eliquid

Project Code: 0814-52  
 Project Start Date: 08/07/2014  
 Analysis Method: ENT301

Enthalpy Code	Client Code	Dilution Factor	Acetaldehyde (ug/mL)	Acrolein (ug/mL)	Crotonaldehyde (ug/mL)	Formaldehyde (ug/mL)
0814-52-01	RM080514	43	19.3	< 1.07 ND	< 1.09 ND	10.2

ND: Not Detected; analytes not detected above the MDL

Compound / Sample ID	Dilution Factor	MS Catch (ug)	Spike Amnt (ug)	Native Amnt (ug)	Recovery %
<b>Acetaldehyde</b> 0814-52-01-MS	1	3.03	3.56	0.482	71.6%
<b>Acrolein</b> 0814-52-01-MS	1	3.52	3.78	0.00	93.1%
<b>Crotonaldehyde</b> 0814-52-01-MS	1	2.98	3.80	0.00	78.5%
<b>Formaldehyde</b> 0814-52-01-MS	1	3.54	3.67	0.254	89.7%

Report for: For the benefit of VaporFi, Inc.  
 Client Project: RM02 & HPHC Testing

Project Code: 0814-52  
 Project Start Date: 08/07/2014  
 Analysis Method: GC/MS/MS

Enthalpy Code	Client Code	1-ANP (ng/mL)	2-ANP (ng/mL)	4-ABP (ng/mL)
0814-52-01	RM080514	< 1.81 ND	< 1.80 ND	< 0.180 ND

ND: Not Detected; analytes not detected above the minimum detection limit.

Compound / Sample ID	MS Sample (ng)	Spiked (ng)	Native (ng)	Recovery %
<b>1-ANP</b> 0814-52-01MS	15.7	15.0	0.00	104%
<b>2-ANP</b> 0814-52-01MS	15.1	15.0	0.00	100%
<b>4-ABP</b> 0814-52-01MS	1.32	1.50	0.00	88.1%

ND: Not Detected; analytes not detected above the minimum detection limit.

Analyte Code

- 1-ANP: 1-Aminonaphthalene
- 2-ANP: 2-Aminonaphthalene
- 4-ABP: 4-Aminobiphenyl

# Narrative Summary



## Enthalpy Analytical Narrative Summary

<b>Company</b>	For the benefit of VaporFi, Inc.
<b>Analyst</b>	WJG / ETA
<b>Parameters</b>	HPLC/UV Analysis

	Eliquid samples
<b>Job #</b>	0814-52
<b># Samples</b>	1

<b>Custody</b>	<p>Summer Mims received the samples on 8/7/14 after being relinquished by for the benefit of VaporFi, Inc. The samples were received at ambient temperature 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.</p>
<b>Analysis</b>	<p>The samples were analyzed for acetaldehyde, acrolein, crotonaldehyde, and formaldehyde following the analytical procedures in Enthalpy SOP ENT301.</p> <p>The Agilent Model 1100, High Performance Liquid Chromatograph "Groucho" was equipped with an Ultraviolet (UV) Detector operating at 365 nm and an appropriate column.</p>
<b>Calibration</b>	<p>The calibration curve is located in the Carbonyls Raw Data section of this report.</p>
<b>QC Notes</b>	<p>Acetaldehyde, acrolein, formaldehyde, and crotonaldehyde were not detected in the blank at levels above the minimum detection limit (MDL).</p> <p>A matrix spike (MS) was prepared using an aliquot of the sample. The recovery values were within 30% of the expected values.</p>
<b>Reporting Notes</b>	<p>The reported concentrations (ug/mL) were calculated by multiplying the diluted results by the dilution factor. The data in the Raw Data section of the report are diluted and have not been adjusted for the dilution factor.</p> <p>The results presented in this report are representative of the sample as provided to the laboratory.</p>



## Enthalpy Analytical Narrative Summary

<b>Company</b>	For the benefit of VaporFi, Inc.
<b>Analyst</b>	SSB
<b>Parameters</b>	GC/MS/MS Analysis

	Eliquid samples
<b>Job #</b>	0814-52
<b># Samples</b>	1

<b>Custody</b>	<p>Summer Mims received the samples on 8/7/14 after being relinquished by for the benefit of VaporFi, Inc. The samples were received at ambient temperature 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.</p>
<b>Analysis</b>	<p>The liquid samples were analyzed for 1-aminonaphthalene (1-ANP), 2-aminonaphthalene (2-ANP), and 4-aminobiphenyl (1-ABP) following the general analytical procedures for GC/MS analyses and Enthalpy SOP ENT213.</p> <p>Aliquots of 0.5 mL of each sample were combined with 4.5mL of HCl and 0.1mL of internal standard.</p> <p>The Agilent Model 7890A Gas Chromatograph “Bender” was coupled to an Agilent Model 5975 Mass Selective Detector and was fitted with an appropriate column.</p>
<b>Calibration</b>	<p>Refer to the Aromatic Amines Raw Data section of this report for chromatograms.</p>
<b>QC Notes</b>	<p>The target analytes were not detected in the laboratory blank or the sample above the MDL.</p> <p>A matrix spike (MS) was prepared using an aliquot of the sample. The recovery values were within 15% of the expected values</p>
<b>Reporting Notes</b>	<p>The reported “&lt;” concentrations were calculated by dividing the MDL ng by the sample aliquot volume (0.5 mL) used for the analysis. The chromatograms in the Raw Data section of the report present the results in units of ng.</p> <p>The results presented in this report are representative of the samples as provided to the laboratory.</p>





## General Reporting Notes

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

- Any analysis which refers to the method as “**Type**” represents a planned deviation from the reference method. For instance a Hydrogen Sulfide assay from a Tedlar bag would be labeled as “EPA Method 16-Type” because Tedlar bags are not mentioned as one of the collection options in EPA Method 16.
- 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** in the Qualifier or Flag column in the results indicates that the value is between the MDL and the LOQ. The laboratory can positively identify the analyte of interest as present, but the value should be considered an estimate.
- The letter **E** in the Qualifier or Flag column 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. The MS analysis indicates 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 a 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.



# General Reporting Notes

(continued)

- 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 spikes are retained as LCSs. The LCSs 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.
- **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 on sample chromatograms, if provided in the report. 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 on the chromatogram.



# Sample Custody Record





# Chain of Custody Record

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### Special Handling:

- x Standard Turn Around Time (10 business days)
- Rush Turn Around Time -- Date Needed \_\_\_\_\_
- All TATs Subject to Approval by Enthalpy Analytical, Inc.
- All Bag/Can Samples Disposed of 1 Month from Receipt.
- All Other Samples Disposed of 4 Months from Receipt.

Client Name: For the benefit of VaporFi, Inc.	Project Number: _____	PO#: _____	For spiked or duplicate samples: please provide sample volumes for recovery calculations. For Particulates: please provide tare weights and/or condensed water volumes.
Project Manager: _____	Site Name: _____	Telephone#: _____	
Report To: _____	Location: _____	Email: _____	

Special Instructions:						Sample Containers						Analyses:						Notes:		
A=Air 1=H2SO4 2=NaOH 3=_____ 4=_____ X=XAD C=Charcoal SG=Silica Gel G=Grab C=Composite Q=Quality Control						# of VOA Vials	# of Glass	# of Plastic	# of Bags	# of Canisters	# of Tubes	# Other	HPHC	RM02						
Sample ID	Date	Time	Sample Volume	Type	Matrix															
RM080514	8/5/14		80mls			2							X	X						

Relinquished By:	Date:	Received By:	Date:	Time:	Sample Condition:
Jason Dolan	8/5/14		8-7-14	1300	<input type="checkbox"/> Iced <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> <u>22.8</u> Rev 5m <input type="checkbox"/> Iced <input type="checkbox"/> Ambient <input type="checkbox"/> °C _____ <input type="checkbox"/> Iced <input type="checkbox"/> Ambient <input type="checkbox"/> °C _____
			8/7/14	1430	<input type="checkbox"/> Iced <input type="checkbox"/> Ambient <input type="checkbox"/> °C _____

# Raw Data

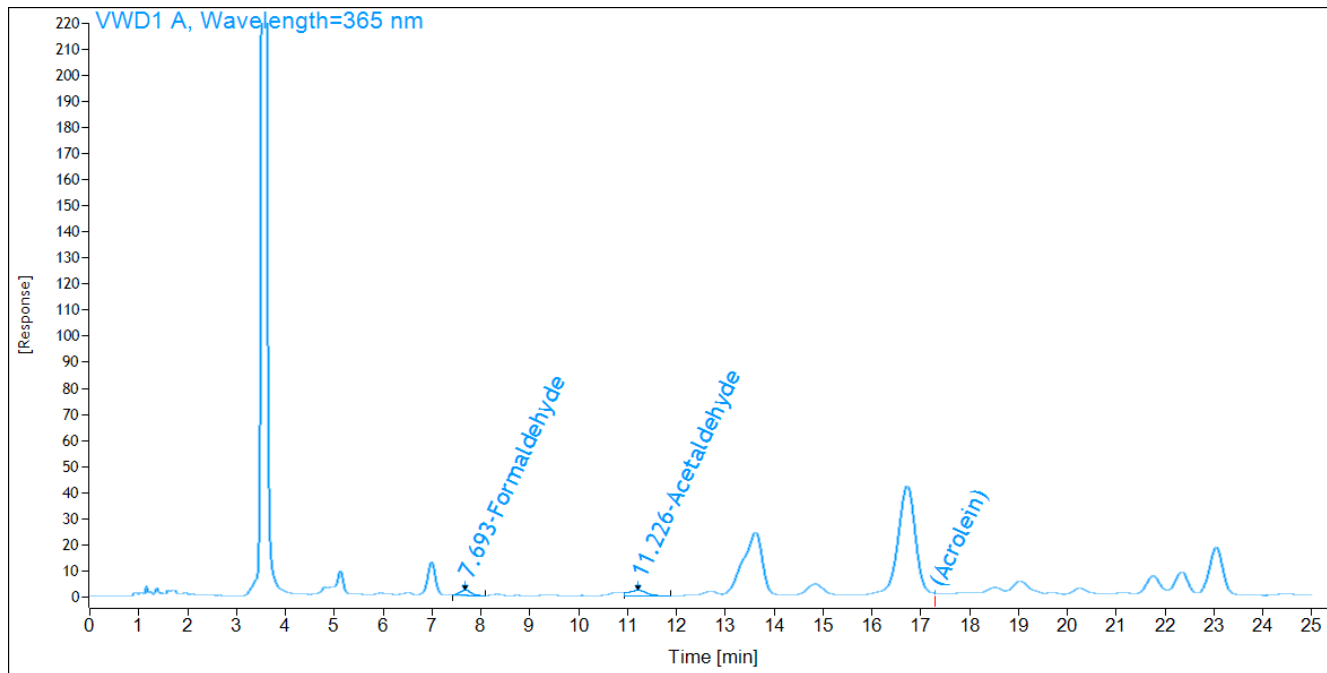


# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\051-2001.D  
**Sample name:** 0814-52-01  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/4/2014 1:19:20 AM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 12:37:58 PM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Sample  
**Location:** 51  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 8



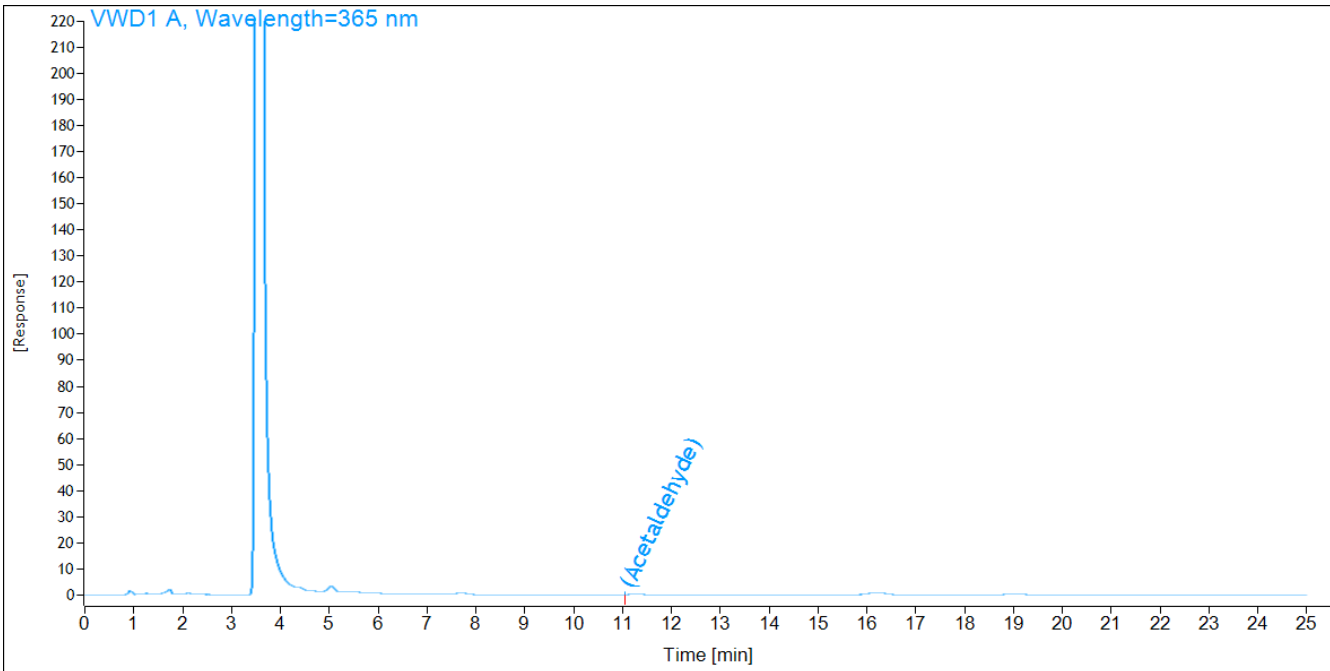
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Formaldehyde	BB	7.69	31.0659	1	0.24	0.236	ug/mL
Acetaldehyde	VB	11.23	47.6328	1	0.45	0.449	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\053-2201.D  
Sample name: DNPH Blank  
File\_Location: \TSC Data\2014\Groucho\Quarter 3  
Injection date: 9/4/2014 2:21:39 AM  
Acq. method: ELIQUID\_BC\_NEW.M  
Analysis method: GROUCHO126.M  
Last changed: 9/5/2014 10:10:52 AM  
Instrument: Groucho  
Sequence\_Name: GROUCHO126  
Acq. operator: Erik Alvarez

Sample type: Sample  
Location: 53  
Injection volume: 5.000  
Injection: 1 of 1  
File\_Version: 7



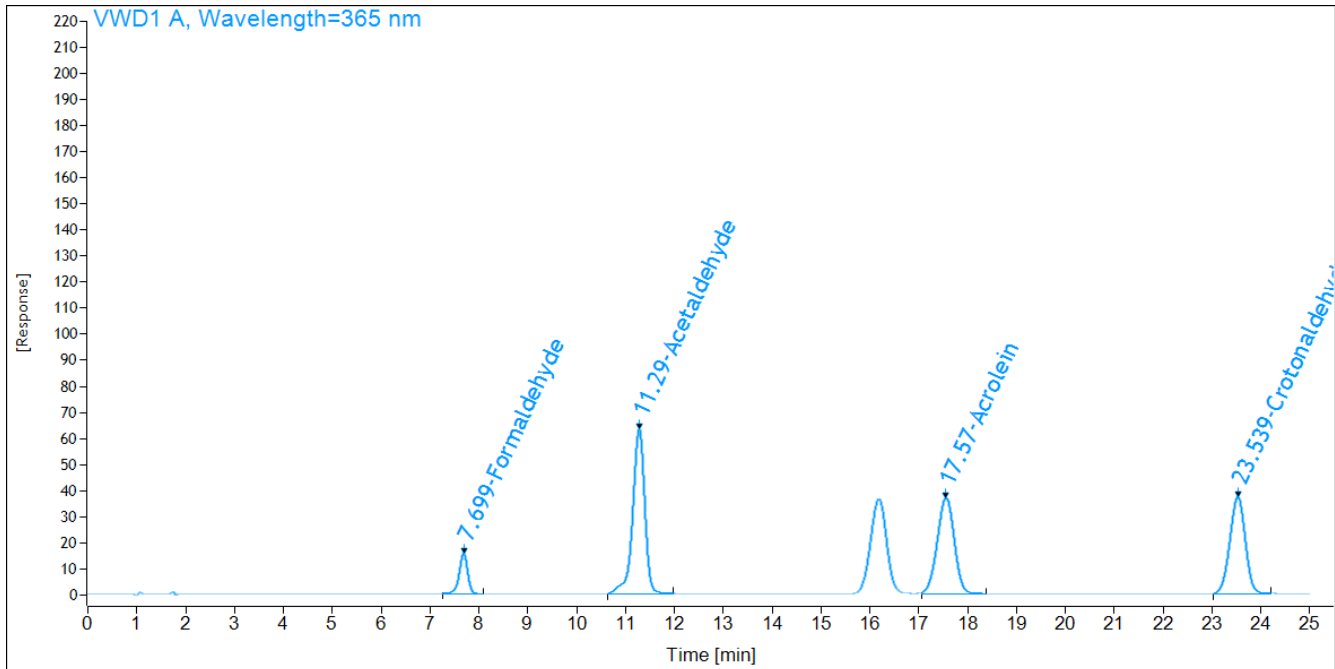
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\004-3001.D  
Sample name: HPLC-STDs014 #4  
File\_Location: \TSC Data\2014\Groucho\Quarter 3  
Injection date: 9/4/2014 6:30:31 AM  
Acq. method: ELIQUID\_BC\_NEW.M  
Analysis method: GROUCHO126.M  
Last changed: 9/5/2014 11:11:13 AM  
Instrument: Groucho  
Sequence\_Name: GROUCHO126  
Acq. operator: Erik Alvarez

Sample type: Calibration  
Location: 4  
Injection volume: 5.000  
Injection: 1 of 1  
File\_Version: 7



Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Formaldehyde	BB	7.70	190.5463	1	1.42	1.421	ug/mL
Acetaldehyde	BB	11.29	1091.7911	1	10.05	10.053	ug/mL
Acrolein	BB	17.57	899.2039	1	9.99	9.994	ug/mL
Crotonaldehyde	BB	23.54	821.5437	1	10.23	10.227	ug/mL

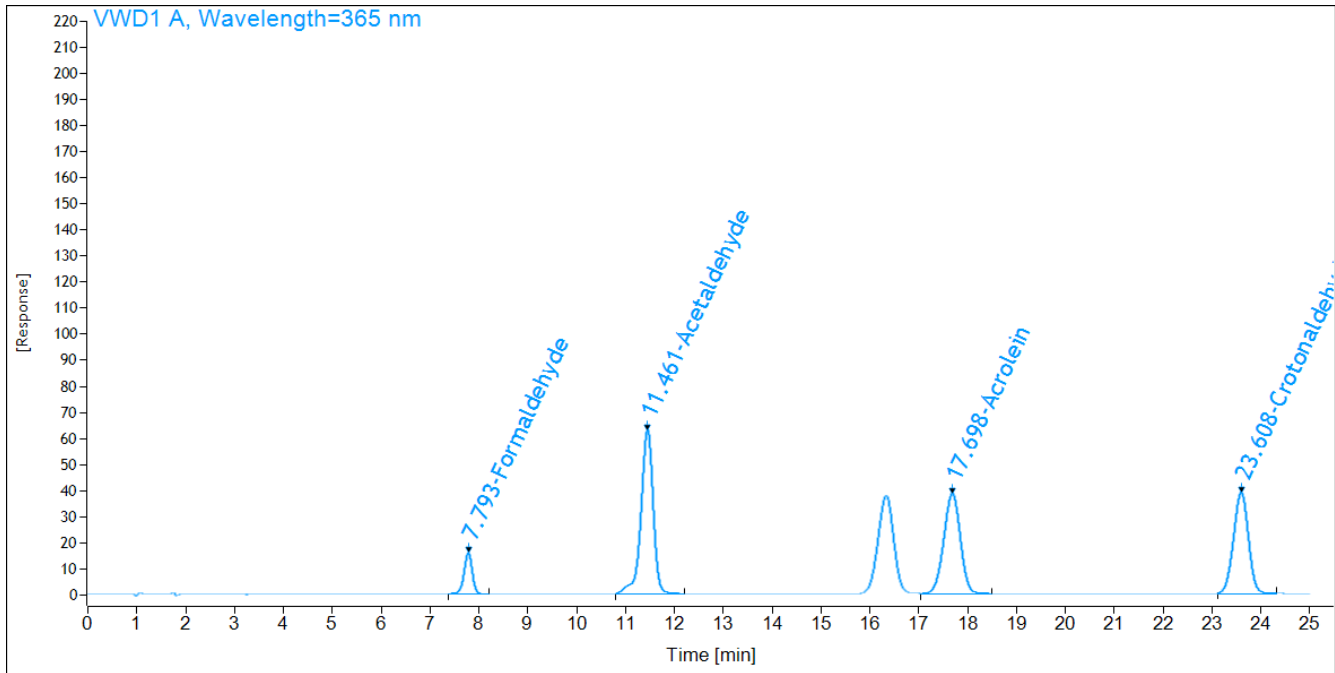


# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO127\004-0101.D  
Sample name: HPLC-STDs014 #4  
File\_Location: \TSC Data\2014\Groucho\Quarter 3  
Injection date: 9/5/2014 10:52:29 AM  
Acq. method: ELIQUID\_BC\_NEW.M  
Analysis method: GROUCHO126.M  
Last changed: 9/5/2014 3:20:18 PM  
Instrument: GROUCHO127  
Sequence\_Name: GROUCHO127  
Acq. operator: Wendy Gardow

Sample type: Calibration  
Location: 4  
Injection volume: 5.000  
Injection: 1 of 1  
File\_Version: 2



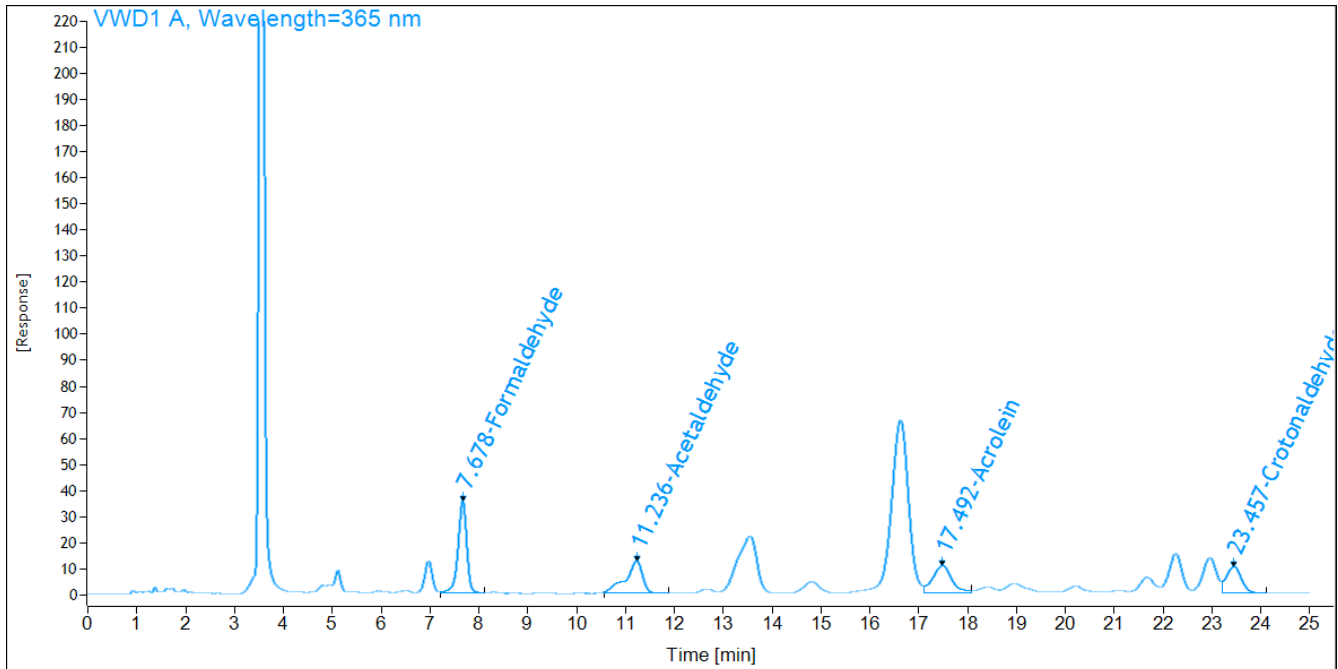
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Formaldehyde	BB	7.79	191.6142	1	1.43	1.429	ug/mL
Acetaldehyde	BB	11.46	1104.3644	1	10.17	10.169	ug/mL
Acrolein	VB	17.70	911.9853	1	10.14	10.136	ug/mL
Crotonaldehyde	BB	23.61	832.2966	1	10.36	10.361	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO127\072-0401.D  
Sample name: 0814-52-01-MS  
File\_Location: \TSC Data\2014\Groucho\Quarter 3  
Injection date: 9/5/2014 12:25:58 PM  
Acq. method: ELIQUID\_BC\_NEW.M  
Analysis method: GROUCHO126.M  
Last changed: 9/5/2014 3:20:18 PM  
Instrument: Groucho  
Sequence\_Name: GROUCHO127  
Acq. operator: Wendy Gardow

Sample type: Sample  
Location: 72  
Injection volume: 5.000  
Injection: 1 of 1  
File\_Version: 2



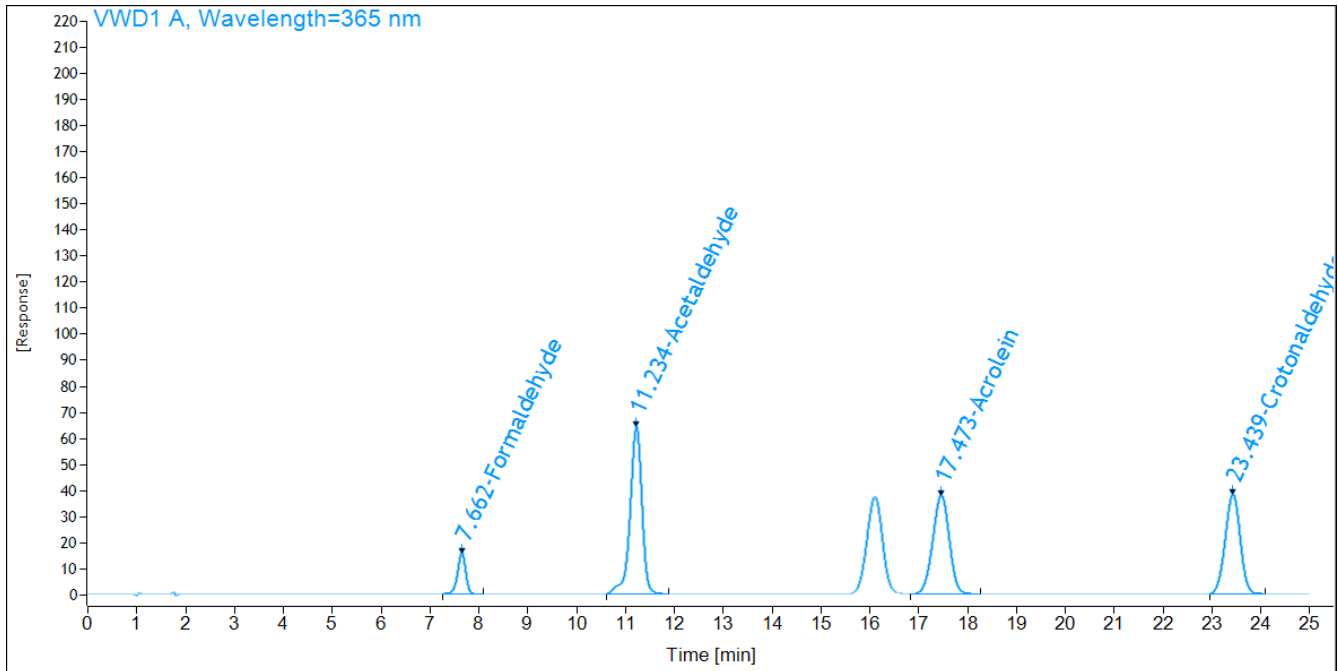
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Formaldehyde	VV	7.68	438.7061	1	3.26	3.265	ug/mL
Acetaldehyde	BB	11.24	302.1908	1	2.79	2.790	ug/mL
Acrolein	VV	17.49	291.0521	1	3.24	3.241	ug/mL
Crotonaldehyde	VB	23.46	219.3835	1	2.75	2.747	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO127\004-0501.D  
Sample name: HPLC-STDs014 #4  
File\_Location: \TSC Data\2014\Groucho\Quarter 3  
Injection date: 9/5/2014 12:57:09 PM  
Acq. method: ELIQUID\_BC\_NEW.M  
Analysis method: GROUCHO126.M  
Last changed: 9/5/2014 3:20:18 PM  
Instrument: Groucho  
Sequence\_Name: GROUCHO127  
Acq. operator: Wendy Gardow

Sample type: Calibration  
Location: 4  
Injection volume: 5.000  
Injection: 1 of 1  
File\_Version: 2



Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Formaldehyde	BB	7.66	189.8571	1	1.42	1.416	ug/mL
Acetaldehyde	BB	11.23	1090.1140	1	10.04	10.038	ug/mL
Acrolein	VB	17.47	901.9261	1	10.02	10.025	ug/mL
Crotonaldehyde	BB	23.44	823.5045	1	10.25	10.252	ug/mL

# Sequence Summary Report

Sequence\_AcquiredBy Erik Alvarez  
 Sequence\_AcquiredDate 9/3/2014 3:56:35 PM  
 Sequence\_Name GROUCHO126  
 Sequence\_LastModifiedBy Wendy Gardow  
 Sequence\_Ver 6

Name		Acetaldehyde						
Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag	
HPLC-STDs014 #1	Calibration	1	10.655 26.785	1	0.249	0.257 ug/ml	103.2	
HPLC-STDs014 #2	Calibration	2	11.085 104.758	1	0.980	0.974 ug/ml	99.40	
HPLC-STDs014 #3	Calibration	3	11.074 529.159	1	4.955	4.878 ug/ml	98.44	
HPLC-STDs014 #4	Calibration	4	11.073 1076.334	1	10.000	9.911 ug/ml	99.11	
HPLC-STDs014 #5	Calibration	5	11.095 2220.051	1	20.588	20.431 ug/ml	99.24	
HPLC-STDs014 #6	Calibration	6	11.107 3877.766	1	35.714	35.678 ug/ml	99.90	
HPLC-STDs014 #7	Calibration	7	11.139 5473.621	1	50.000	50.357 ug/ml	100.7	
HPLC-STDs015 #1	Calibration	91		1		0.000 ug/ml	NaN	
HPLC-STDs015 #2	Calibration	92		1		0.000 ug/ml	NaN	
HPLC-STDs015 #3	Calibration	93		1		0.000 ug/ml	NaN	
HPLC-STDs015 #4	Calibration	94		1		0.000 ug/ml	NaN	
HPLC-STDs015 #5	Calibration	95		1		0.000 ug/ml	NaN	
HPLC-STDs015 #6	Calibration	96		1		0.000 ug/ml	NaN	
HPLC-STDs015 #7	Calibration	97		1		0.000 ug/ml	NaN	

Name		Acetoin						
Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag	
HPLC-STDs014 #1	Calibration	1		1		0.000 ug/ml	NaN	
HPLC-STDs014 #2	Calibration	2		1		0.000 ug/ml	NaN	
HPLC-STDs014 #3	Calibration	3		1		0.000 ug/ml	NaN	
HPLC-STDs014 #4	Calibration	4		1		0.000 ug/ml	NaN	
HPLC-STDs014 #5	Calibration	5		1		0.000 ug/ml	NaN	
HPLC-STDs014 #6	Calibration	6		1		0.000 ug/ml	NaN	
HPLC-STDs014 #7	Calibration	7		1		0.000 ug/ml	NaN	
HPLC-STDs015 #1	Calibration	91	6.961 12.079	1	0.256	0.275 ug/ml	107.6	
HPLC-STDs015 #2	Calibration	92	6.960 46.408	1	1.009	1.018 ug/ml	100.9	
HPLC-STDs015 #3	Calibration	93	6.970 230.145	1	5.102	4.996 ug/ml	97.92	
HPLC-STDs015 #4	Calibration	94	6.975 446.712	1	10.296	9.684 ug/ml	94.05	
HPLC-STDs015 #5	Calibration	95	6.978 944.949	1	21.198	20.469 ug/ml	96.56	
HPLC-STDs015 #6	Calibration	96	6.981 1709.898	1	36.771	37.027 ug/ml	100.7	
HPLC-STDs015 #7	Calibration	97	6.989 2431.278	1	51.480	52.643 ug/ml	102.3	

Name Acetone

# Sequence Summary Report

Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag
HPLC-STDs014 #1	Calibration	1	15.472 20.560	1	0.249	0.251 ug/ml	100.8
HPLC-STDs014 #2	Calibration	2	15.902 82.645	1	0.981	0.995 ug/ml	101.4
HPLC-STDs014 #3	Calibration	3	15.883 408.100	1	4.956	4.893 ug/ml	98.73
HPLC-STDs014 #4	Calibration	4	15.887 828.943	1	10.002	9.934 ug/ml	99.32
HPLC-STDs014 #5	Calibration	5	15.910 1706.911	1	20.592	20.450 ug/ml	99.31
HPLC-STDs014 #6	Calibration	6	15.928 2977.584	1	35.721	35.670 ug/ml	99.86
HPLC-STDs014 #7	Calibration	7	15.975 4200.645	1	50.010	50.319 ug/ml	100.6
HPLC-STDs015 #1	Calibration	91		1		0.000 ug/ml	NaN
HPLC-STDs015 #2	Calibration	92		1		0.000 ug/ml	NaN
HPLC-STDs015 #3	Calibration	93		1		0.000 ug/ml	NaN
HPLC-STDs015 #4	Calibration	94		1		0.000 ug/ml	NaN
HPLC-STDs015 #5	Calibration	95		1		0.000 ug/ml	NaN
HPLC-STDs015 #6	Calibration	96		1		0.000 ug/ml	NaN
HPLC-STDs015 #7	Calibration	97		1		0.000 ug/ml	NaN

**Name** Acrolein

Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag
HPLC-STDs014 #1	Calibration	1	16.735 22.229	1	0.249	0.256 ug/ml	102.8
HPLC-STDs014 #2	Calibration	2	17.223 87.740	1	0.980	0.983 ug/ml	100.3
HPLC-STDs014 #3	Calibration	3	17.201 436.898	1	4.955	4.861 ug/ml	98.09
HPLC-STDs014 #4	Calibration	4	17.206 889.603	1	10.000	9.888 ug/ml	98.88
HPLC-STDs014 #5	Calibration	5	17.230 1838.731	1	20.588	20.427 ug/ml	99.22
HPLC-STDs014 #6	Calibration	6	17.253 3213.034	1	35.714	35.688 ug/ml	99.93
HPLC-STDs014 #7	Calibration	7	17.310 4536.343	1	50.000	50.383 ug/ml	100.8
HPLC-STDs015 #1	Calibration	91		1		0.000 ug/ml	NaN
HPLC-STDs015 #2	Calibration	92		1		0.000 ug/ml	NaN
HPLC-STDs015 #3	Calibration	93		1		0.000 ug/ml	NaN
HPLC-STDs015 #4	Calibration	94		1		0.000 ug/ml	NaN
HPLC-STDs015 #5	Calibration	95		1		0.000 ug/ml	NaN
HPLC-STDs015 #6	Calibration	96		1		0.000 ug/ml	NaN
HPLC-STDs015 #7	Calibration	97		1		0.000 ug/ml	NaN

**Name** Crotonaldehyde

Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag
HPLC-STDs014 #1	Calibration	1	22.916 19.124	1	0.254	0.260 ug/ml	102.3
HPLC-STDs014 #2	Calibration	2	23.207 79.420	1	1.003	1.009 ug/ml	100.6
HPLC-STDs014 #3	Calibration	3	23.186 398.878	1	5.069	4.977 ug/ml	98.19
HPLC-STDs014 #4	Calibration	4	23.196 812.626	1	10.230	10.117 ug/ml	98.89
HPLC-STDs014 #5	Calibration	5	23.218 1683.257	1	21.062	20.931 ug/ml	99.38
HPLC-STDs014 #6	Calibration	6	23.244 2937.897	1	36.536	36.516 ug/ml	99.95
HPLC-STDs014 #7	Calibration	7	23.300 4143.698	1	51.150	51.494 ug/ml	100.7
HPLC-STDs015 #1	Calibration	91		1		0.000 ug/ml	NaN
HPLC-STDs015 #2	Calibration	92		1		0.000 ug/ml	NaN
HPLC-STDs015 #3	Calibration	93		1		0.000 ug/ml	NaN
HPLC-STDs015 #4	Calibration	94		1		0.000 ug/ml	NaN
HPLC-STDs015 #5	Calibration	95		1		0.000 ug/ml	NaN
HPLC-STDs015 #6	Calibration	96		1		0.000 ug/ml	NaN
HPLC-STDs015 #7	Calibration	97		1		0.000 ug/ml	NaN

**Name** Diacetyl

# Sequence Summary Report

Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag
HPLC-STDs014 #1	Calibration	1		1		0.000 ug/ml	NaN
HPLC-STDs014 #2	Calibration	2		1		0.000 ug/ml	NaN
HPLC-STDs014 #3	Calibration	3		1		0.000 ug/ml	NaN
HPLC-STDs014 #4	Calibration	4		1		0.000 ug/ml	NaN
HPLC-STDs014 #5	Calibration	5		1		0.000 ug/ml	NaN
HPLC-STDs014 #6	Calibration	6		1		0.000 ug/ml	NaN
HPLC-STDs014 #7	Calibration	7		1		0.000 ug/ml	NaN
HPLC-STDs015 #1	Calibration	91	12.632 10.451	1	0.243	0.260 ug/ml	106.8
HPLC-STDs015 #2	Calibration	92	12.646 40.638	1	0.959	0.937 ug/ml	97.67
HPLC-STDs015 #3	Calibration	93	12.654 210.373	1	4.849	4.744 ug/ml	97.83
HPLC-STDs015 #4	Calibration	94	12.672 423.366	1	9.786	9.521 ug/ml	97.29
HPLC-STDs015 #5	Calibration	95	12.680 887.698	1	20.148	19.936 ug/ml	98.95
HPLC-STDs015 #6	Calibration	96	12.687 1569.416	1	34.950	35.226 ug/ml	100.8
HPLC-STDs015 #7	Calibration	97	12.698 2194.272	1	48.930	49.242 ug/ml	100.6

## Name Formaldehyde

Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag
HPLC-STDs014 #1	Calibration	1	7.196 4.412	1	0.036	0.038 ug/ml	105.7
HPLC-STDs014 #2	Calibration	2	7.562 17.920	1	0.140	0.138 ug/ml	98.87
HPLC-STDs014 #3	Calibration	3	7.555 91.675	1	0.708	0.686 ug/ml	96.95
HPLC-STDs014 #4	Calibration	4	7.554 188.651	1	1.429	1.407 ug/ml	98.45
HPLC-STDs014 #5	Calibration	5	7.573 390.927	1	2.942	2.910 ug/ml	98.90
HPLC-STDs014 #6	Calibration	6	7.578 686.946	1	5.104	5.109 ug/ml	100.1
HPLC-STDs014 #7	Calibration	7	7.596 970.508	1	7.145	7.216 ug/ml	101.0
HPLC-STDs015 #1	Calibration	91		1		0.000 ug/ml	NaN
HPLC-STDs015 #2	Calibration	92		1		0.000 ug/ml	NaN
HPLC-STDs015 #3	Calibration	93		1		0.000 ug/ml	NaN
HPLC-STDs015 #4	Calibration	94		1		0.000 ug/ml	NaN
HPLC-STDs015 #5	Calibration	95		1		0.000 ug/ml	NaN
HPLC-STDs015 #6	Calibration	96		1		0.000 ug/ml	NaN
HPLC-STDs015 #7	Calibration	97		1		0.000 ug/ml	NaN

## Name Pentanedione

Sample_ID	Sample_Type	Vial	RT Area	Dil	Tag Amt	Amount Unit	% of Tag
HPLC-STDs014 #1	Calibration	1		1		0.000 ug/ml	NaN
HPLC-STDs014 #2	Calibration	2		1		0.000 ug/ml	NaN
HPLC-STDs014 #3	Calibration	3		1		0.000 ug/ml	NaN
HPLC-STDs014 #4	Calibration	4		1		0.000 ug/ml	NaN
HPLC-STDs014 #5	Calibration	5		1		0.000 ug/ml	NaN
HPLC-STDs014 #6	Calibration	6		1		0.000 ug/ml	NaN
HPLC-STDs014 #7	Calibration	7		1		0.000 ug/ml	NaN
HPLC-STDs015 #1	Calibration	91	20.725 7.792	1	0.244	0.255 ug/ml	104.4
HPLC-STDs015 #2	Calibration	92	20.741 30.113	1	0.960	0.946 ug/ml	98.49
HPLC-STDs015 #3	Calibration	93	20.751 154.421	1	4.853	4.792 ug/ml	98.74
HPLC-STDs015 #4	Calibration	94	20.767 309.692	1	9.794	9.596 ug/ml	97.98
HPLC-STDs015 #5	Calibration	95	20.773 646.312	1	20.164	20.012 ug/ml	99.25
HPLC-STDs015 #6	Calibration	96	20.777 1139.951	1	34.979	35.287 ug/ml	100.9
HPLC-STDs015 #7	Calibration	97	20.790 1585.581	1	48.970	49.076 ug/ml	100.2

# Sequence Summary Report

Sequence\_AcquiredBy Erik Alvarez  
 Sequence\_AcquiredDate 9/3/2014 3:56:35 PM  
 Sequence\_Name GROUCHO126  
 Sequence\_LastModifiedBy Wendy Gardow  
 Sequence\_Ver 6

Name		Acetaldehyde				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8	11.172 1061.829	1	9.777 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98	11.299 5.822	1	0.064 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Acetoin				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8		1	0.000 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98	7.001 512.654	1	11.111 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Acetone				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8	16.023 830.492	1	9.952 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98	16.203 22.732	1	0.277 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Acrolein				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8	17.369 917.696	1	10.200 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98		1	0.000 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Crotonaldehyde				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8	23.352 316.918	1	3.959 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98		1	0.000 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Diacetyl				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8		1	0.000 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98	12.719 476.670	1	10.717 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Formaldehyde				
Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit	
HPLC-STDs014 #SS	Control	8	7.623 1373.570	1	10.210 ug/ml	
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml	
HPLC-STDs015 #SS	Control	98		1	0.000 ug/ml	
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml	

Name		Pentanedione				
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# Sequence Summary Report

Sample_ID	Sample_Type	Vial	RT Area	Dil	Amount Unit
HPLC-STDs014 #SS	Control	8		1	0.000 ug/ml
HPLC-STDs014 #RB	Control	9		1	0.000 ug/ml
HPLC-STDs015 #SS	Control	98	20.802 325.885	1	10.098 ug/ml
HPLC-STDs015 #RB	Control	99		1	0.000 ug/ml

Compound Acetaldehyde

Signal: VWD1A

Exp. RT: 10.465

Corr. 0.999973

Residual: 19.90479

RF RSD%:

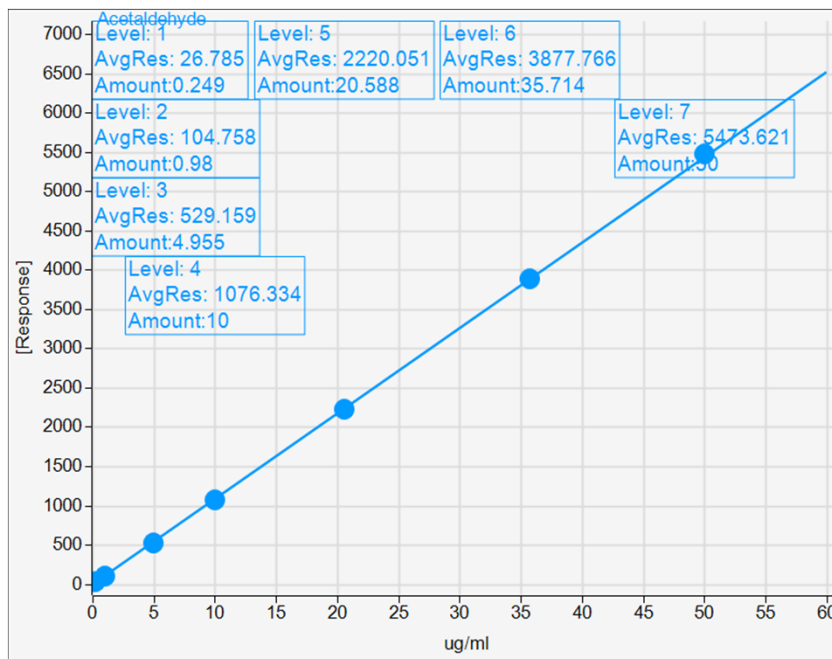
Formula:  $y = ax + b$

a: 108.71880

b: -1.15092

c: 0.00000

d: 0.00000



Compound Acetoin

Signal: VWD1A

Exp. RT: 6.989

Corr. 0.999601

Residual: 31.57558

RF RSD%:

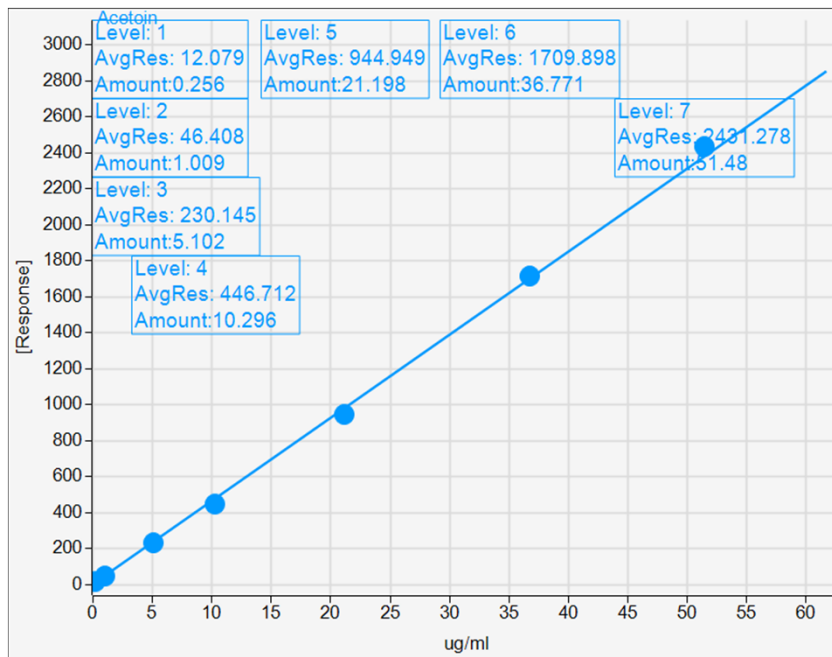
Formula:  $y = ax + b$

a: 46.19677

b: -0.64274

c: 0.00000

d: 0.00000





# Sequence Summary Report

**Compound** Acetone

**Signal:** VWD1A

**Exp. RT:** 15.472

**Corr. Coeff.:** 0.999980

**Residual:** 13.32689

**RF RSD%:**

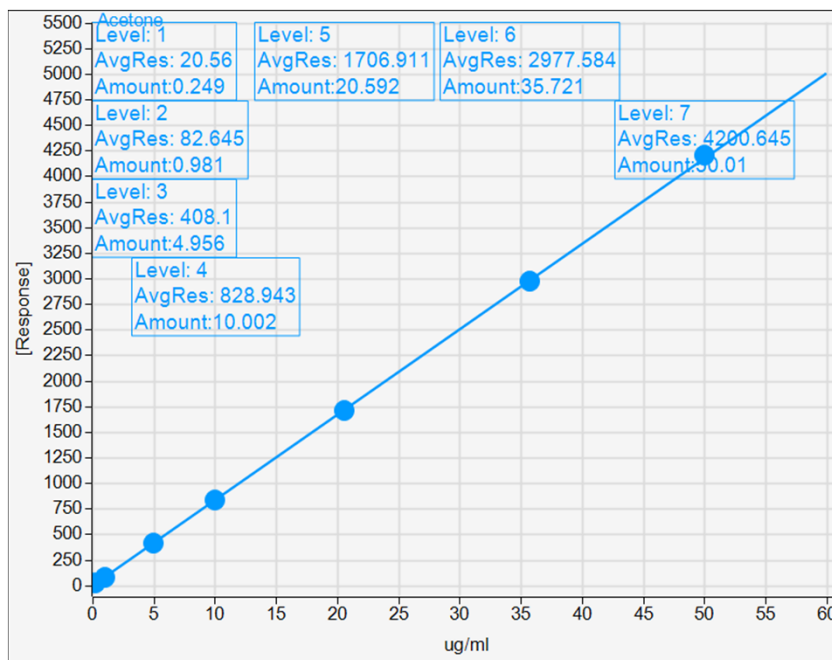
**Formula:**  $y = ax + b$

**a:** 83.48745

**b:** -0.39198

**c:** 0.00000

**d:** 0.00000



**Compound** Acrolein

**Signal:** VWD1A

**Exp. RT:** 16.736

**Corr. Coeff.:** 0.999967

**Residual:** 17.77182

**RF RSD%:**

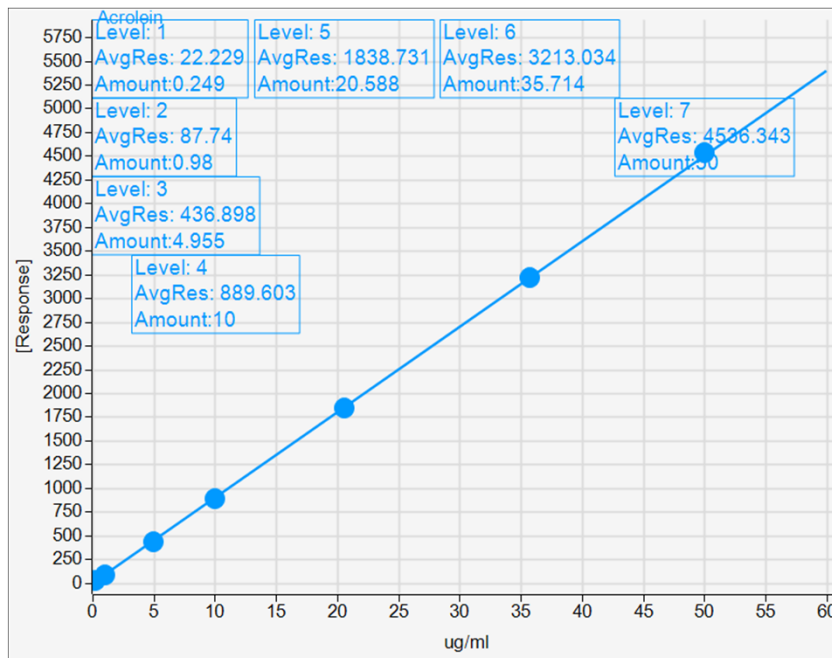
**Formula:**  $y = ax + b$

**a:** 90.05347

**b:** -0.81581

**c:** 0.00000

**d:** 0.00000



# Sequence Summary Report

**Compound** Crotonaldehyde

**Signal:** VWD1A

**Exp. RT:** 23.300

**Corr. Coeff.:** 0.999973

**Residual:** 14.27923

**RF RSD%:**

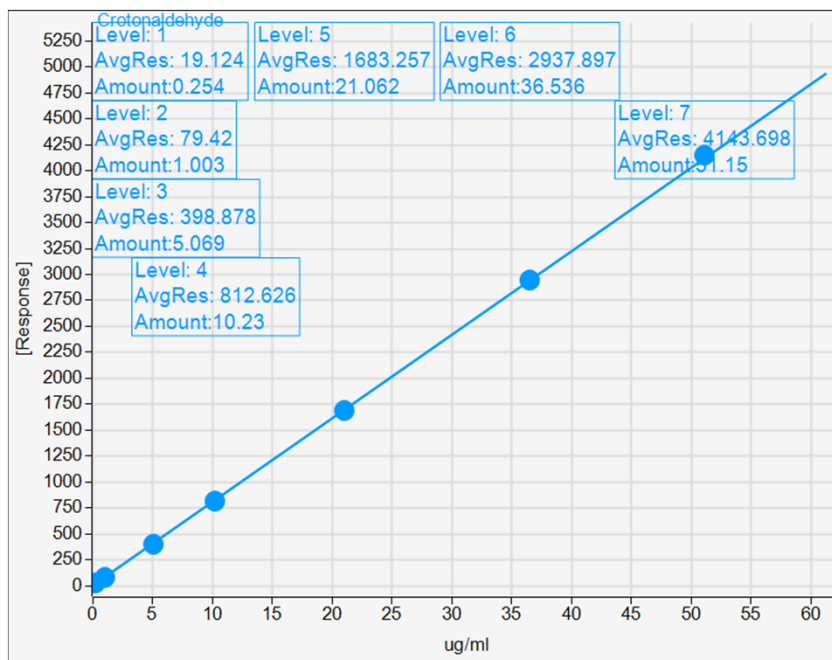
**Formula:**  $y = ax + b$

**a:** 80.50428

**b:** -1.80129

**c:** 0.00000

**d:** 0.00000



**Compound** Diacetyl

**Signal:** VWD1A

**Exp. RT:** 12.698

**Corr. Coeff.:** 0.999921

**Residual:** 10.93139

**RF RSD%:**

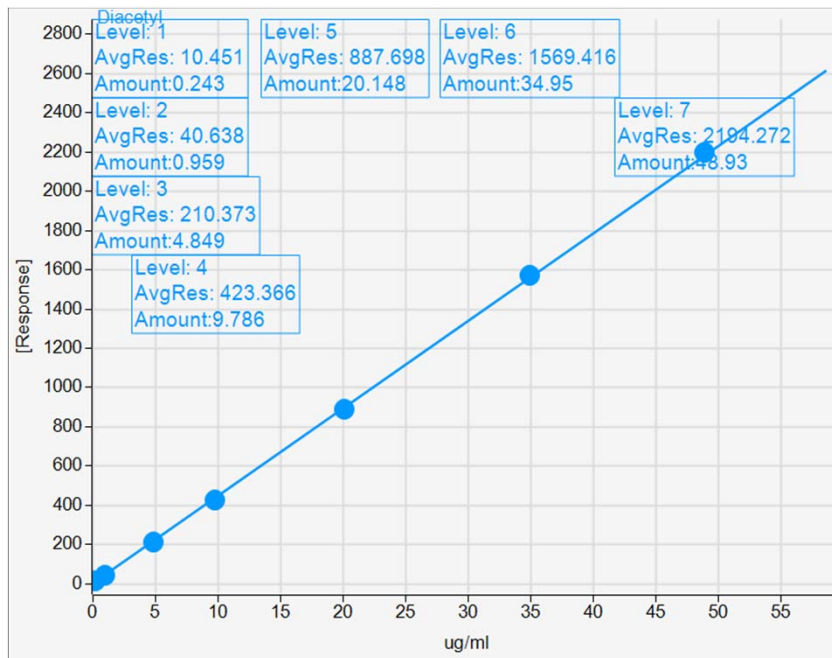
**Formula:**  $y = ax + b$

**a:** 44.58412

**b:** -1.12312

**c:** 0.00000

**d:** 0.00000



# Sequence Summary Report

**Compound** Formaldehyde

**Signal:** VWD1A

**Exp. RT:** 7.462

**Corr. Coeff.:** 0.999932

**Residual:** 5.04531

**RF RSD%:**

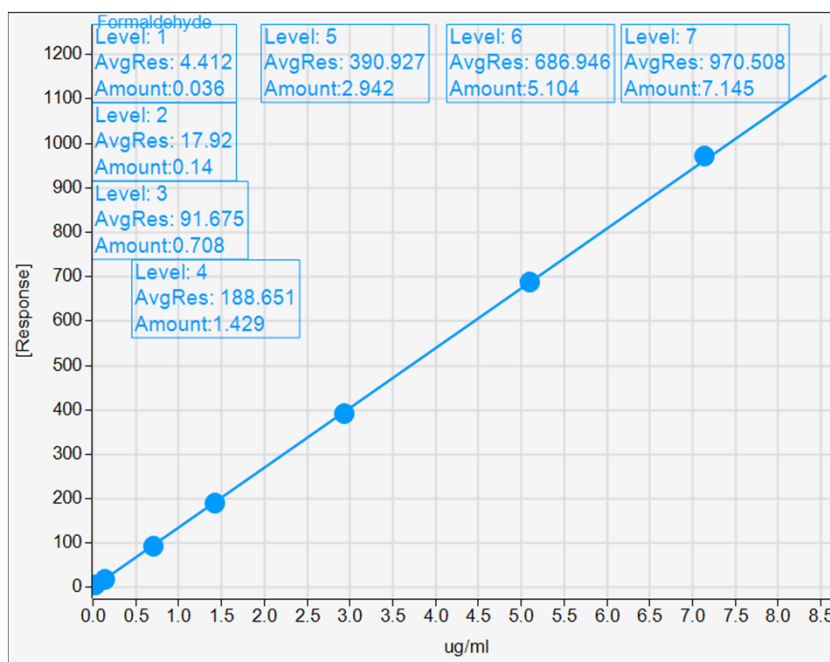
**Formula:**  $y = ax + b$

**a:** 134.59894

**b:** -0.71141

**c:** 0.00000

**d:** 0.00000



**Compound** Pentanedione

**Signal:** VWD1A

**Exp. RT:** 20.790

**Corr. Coeff.:** 0.999957

**Residual:** 5.99615

**RF RSD%:**

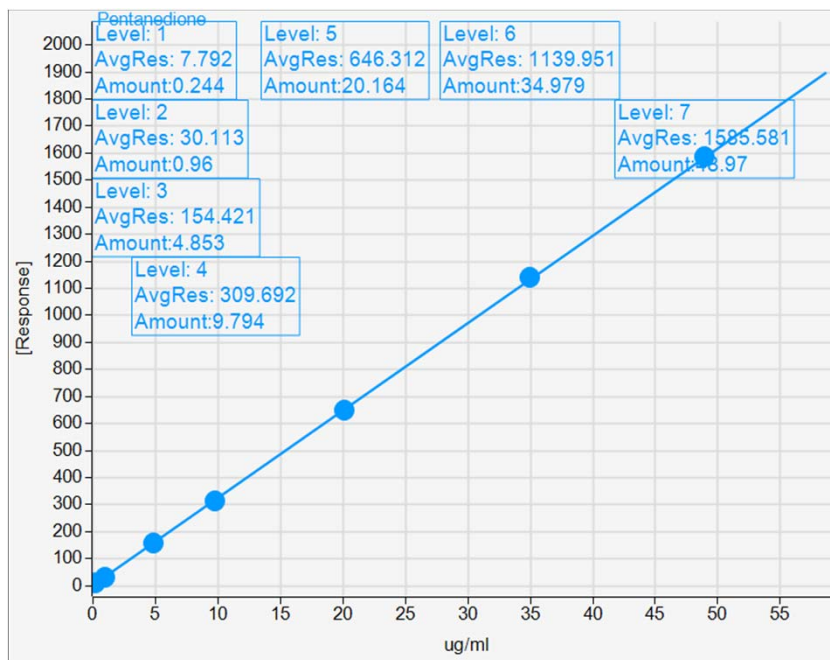
**Formula:**  $y = ax + b$

**a:** 32.31776

**b:** -0.44394

**c:** 0.00000

**d:** 0.00000

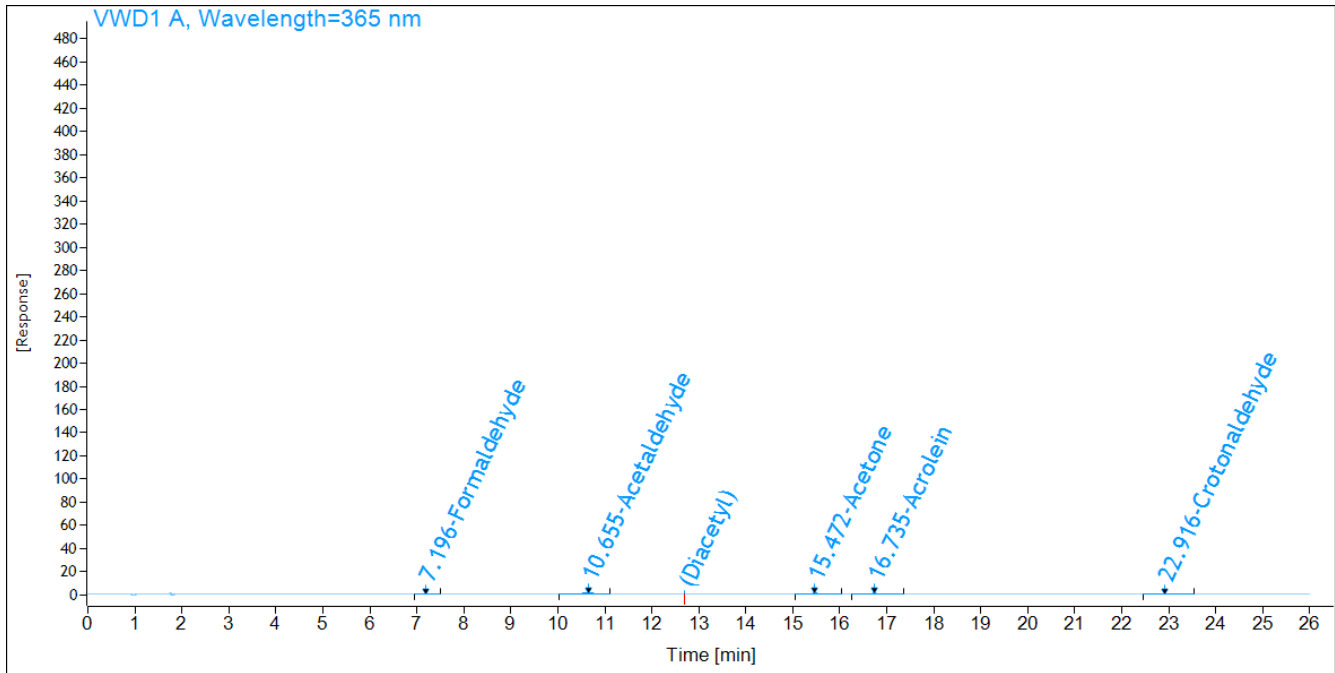


# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\001-0201.D  
**Sample name:** HPLC-STDs014 #1  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 3:58:25 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:13:15 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Calibration  
**Location:** 1  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



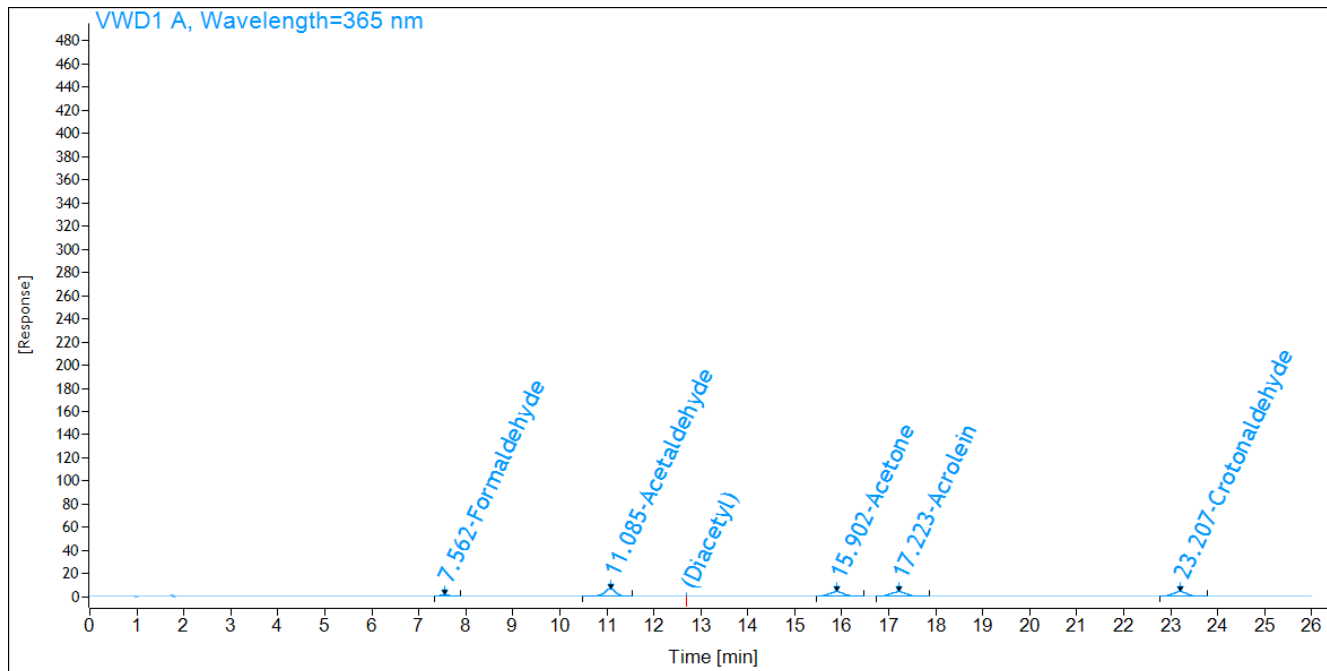
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.20	4.4123	1	0.04	0.038	ug/mL
Acetaldehyde	MM	10.65	26.7851	1	0.26	0.257	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BB	15.47	20.5598	1	0.25	0.251	ug/mL
Acrolein	BB	16.74	22.2289	1	0.26	0.256	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	22.92	19.1244	1	0.26	0.260	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\002-0301.D  
**Sample name:** HPLC-STDs014 #2  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 4:29:31 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Calibration  
**Location:** 2  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



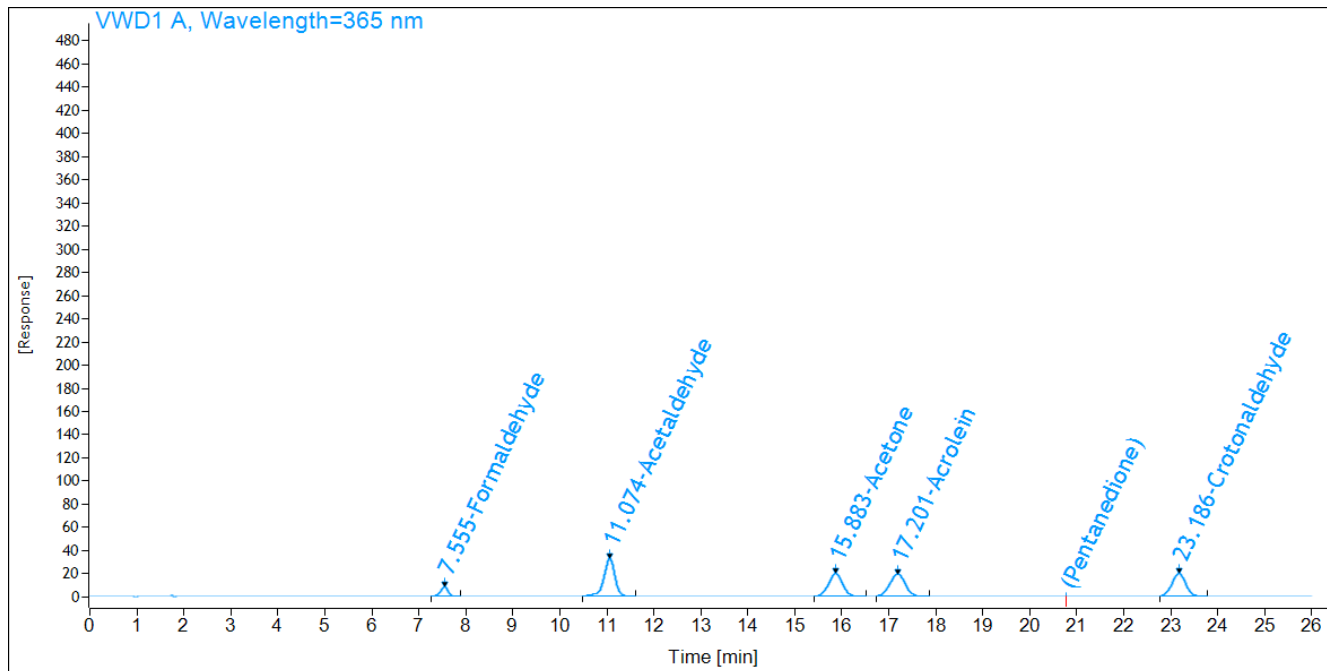
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.56	17.9204	1	0.14	0.138	ug/mL
Acetaldehyde	MM	11.09	104.7583	1	0.97	0.974	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BB	15.90	82.6452	1	0.99	0.995	ug/mL
Acrolein	BB	17.22	87.7403	1	0.98	0.983	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.21	79.4197	1	1.01	1.009	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\003-0401.D  
**Sample name:** HPLC-STDs014 #3  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 5:00:43 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Calibration  
**Location:** 3  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



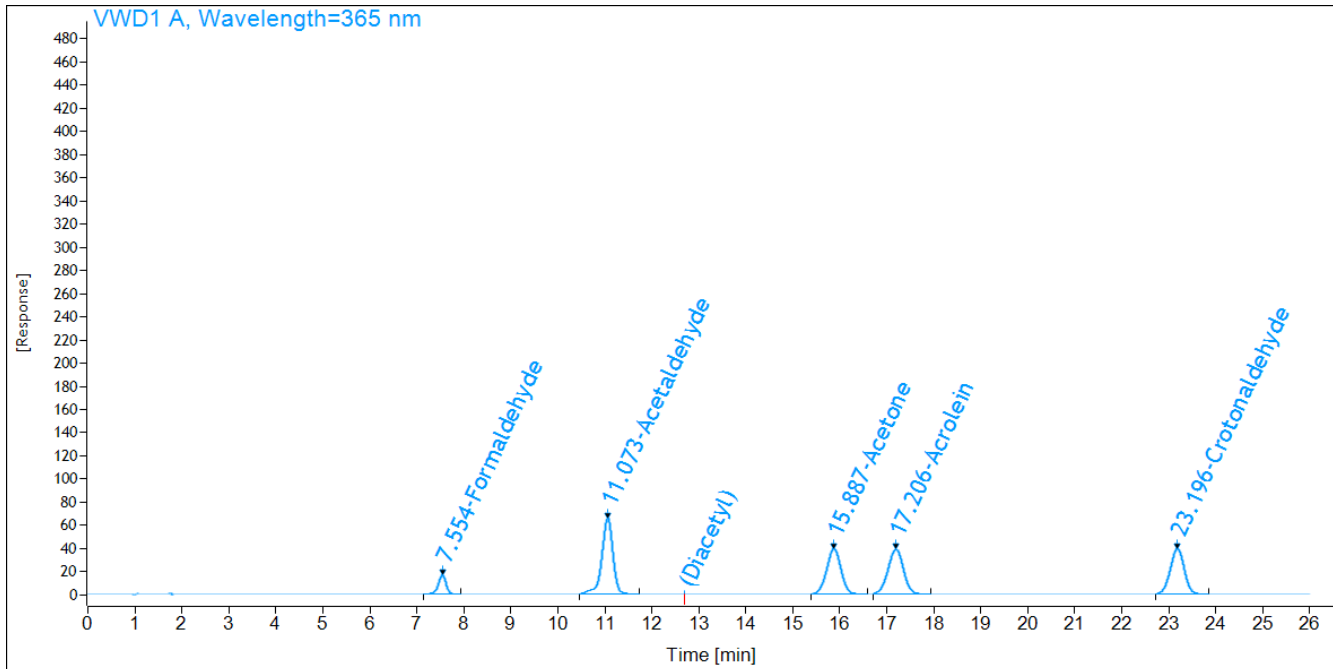
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.55	91.6752	1	0.69	0.686	ug/mL
Acetaldehyde	BB	11.07	529.1594	1	4.88	4.878	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BB	15.88	408.0997	1	4.89	4.893	ug/mL
Acrolein	BB	17.20	436.8985	1	4.86	4.861	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.19	398.8775	1	4.98	4.977	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\004-0501.D  
 Sample name: HPLC-STDs014 #4  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 5:31:49 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 4  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



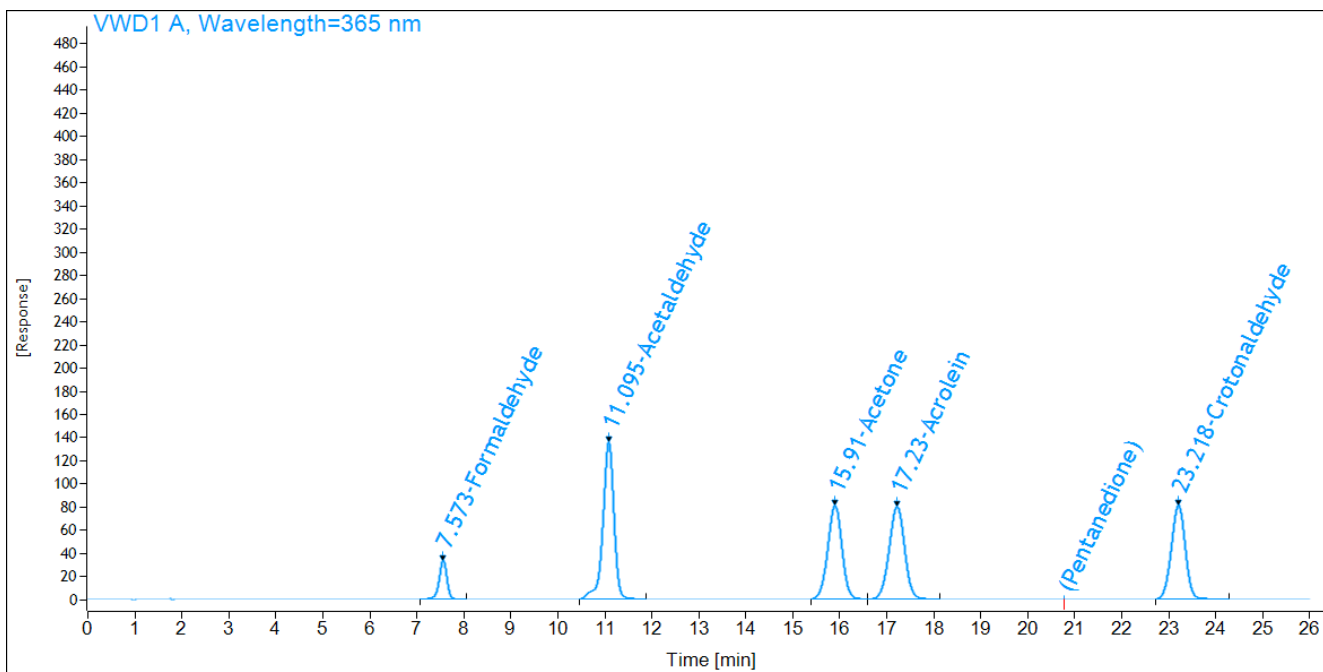
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.55	188.6508	1	1.41	1.407	ug/mL
Acetaldehyde	BB	11.07	1076.3344	1	9.91	9.911	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BB	15.89	828.9432	1	9.93	9.934	ug/mL
Acrolein	BB	17.21	889.6029	1	9.89	9.888	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.20	812.6256	1	10.12	10.117	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\005-0601.D  
 Sample name: HPLC-STDs014 #5  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 6:03:16 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 5  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.57	390.9272	1	2.91	2.910	ug/mL
Acetaldehyde	BB	11.10	2220.0505	1	20.43	20.431	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BV	15.91	1706.9113	1	20.45	20.450	ug/mL
Acrolein	VB	17.23	1838.7313	1	20.43	20.427	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.22	1683.2566	1	20.93	20.931	ug/mL

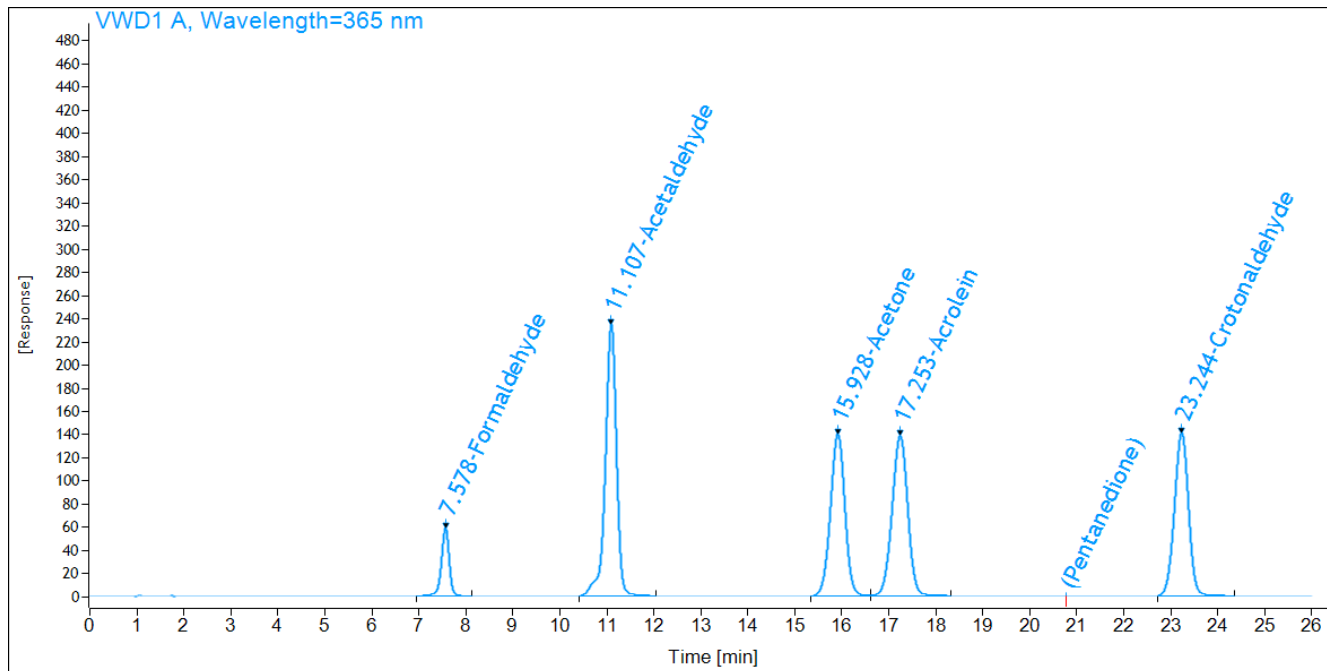


# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\006-0701.D  
 Sample name: HPLC-STDs014 #6  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 6:34:26 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 6  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



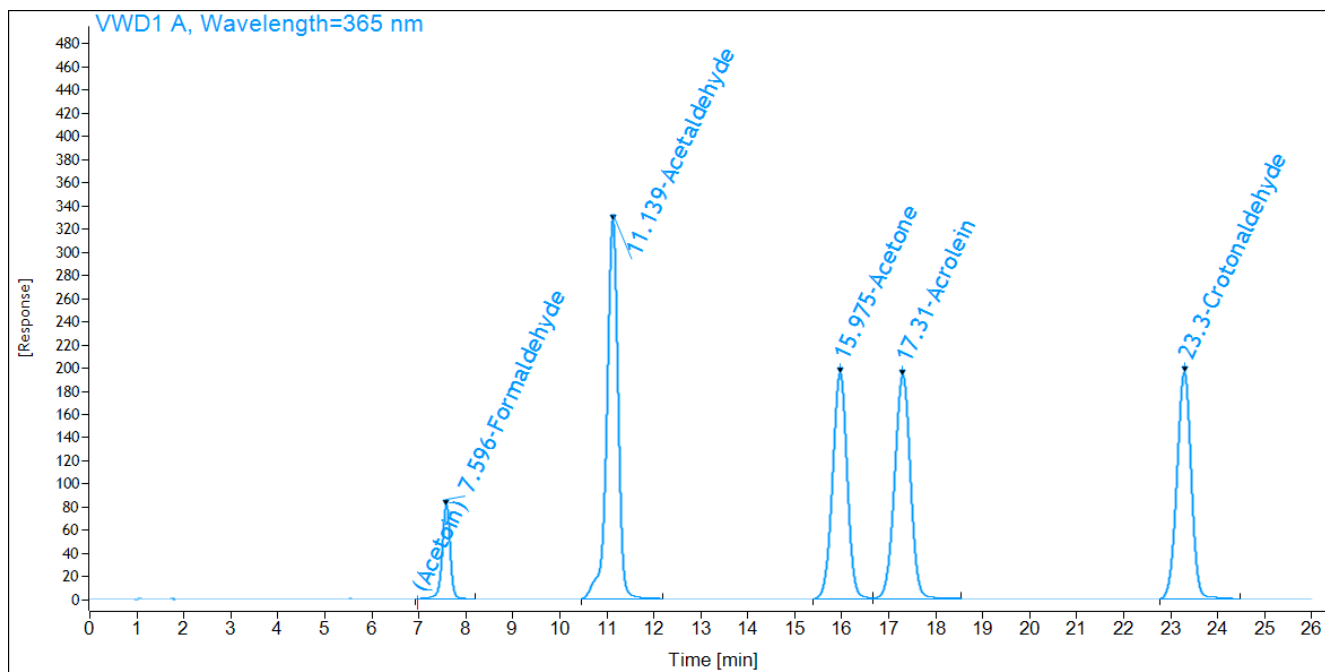
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.58	686.9464	1	5.11	5.109	ug/mL
Acetaldehyde	BB	11.11	3877.7659	1	35.68	35.678	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BV	15.93	2977.5840	1	35.67	35.670	ug/mL
Acrolein	VB	17.25	3213.0339	1	35.69	35.688	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.24	2937.8975	1	36.52	36.516	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\007-0801.D  
 Sample name: HPLC-STDs014 #7  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 7:05:33 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 7  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



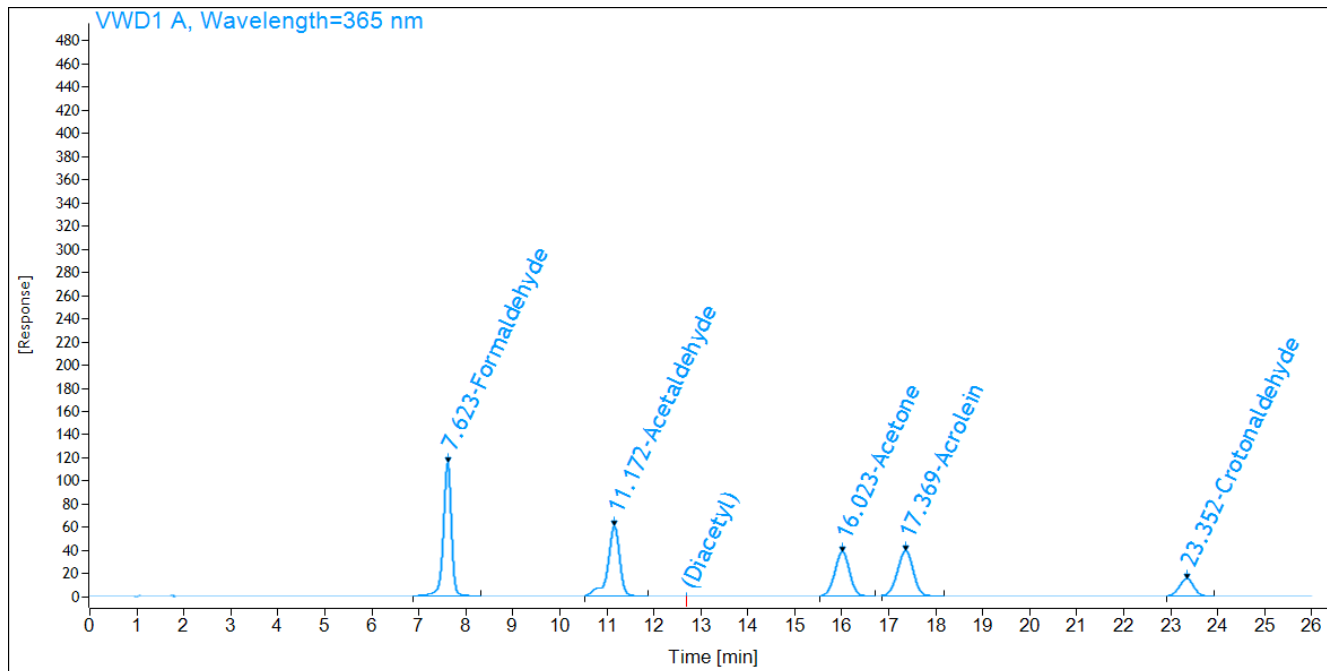
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.60	970.5076	1	7.22	7.216	ug/mL
Acetaldehyde	BB	11.14	5473.6206	1	50.36	50.357	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BV	15.98	4200.6445	1	50.32	50.319	ug/mL
Acrolein	VB	17.31	4536.3433	1	50.38	50.383	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.30	4143.6982	1	51.49	51.494	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\008-0901.D  
**Sample name:** HPLC-STDs014 #SS  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 7:36:42 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Control  
**Location:** 8  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



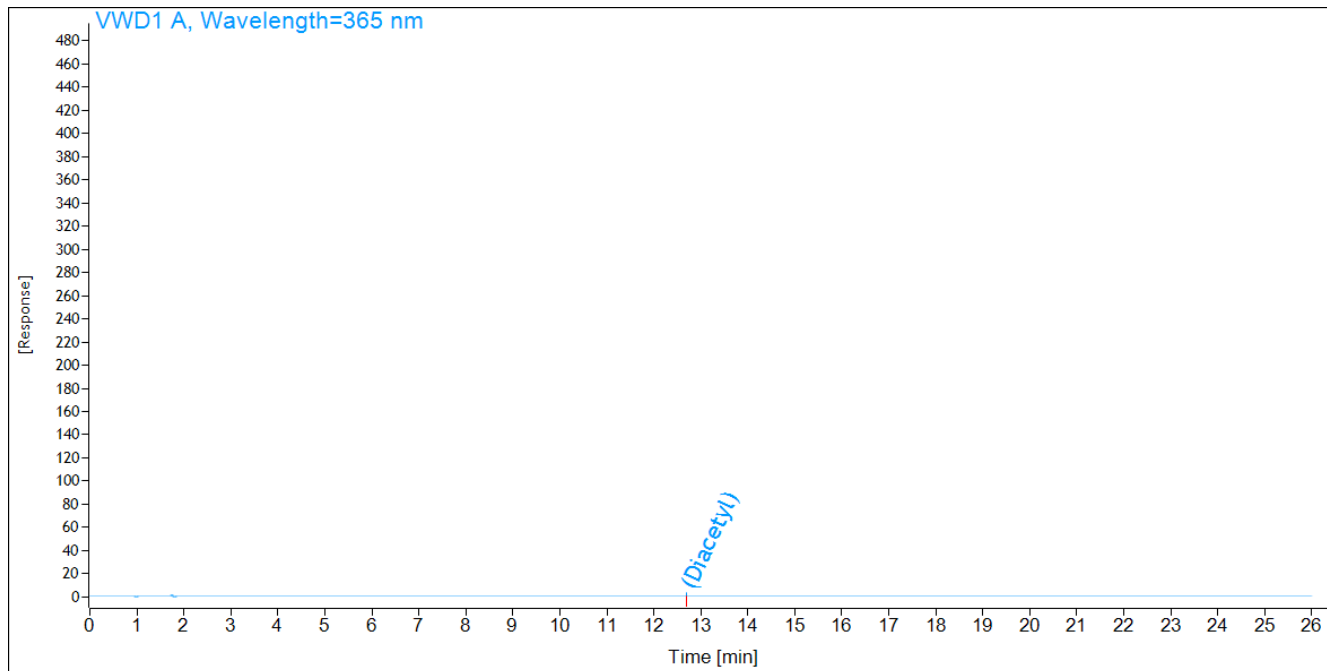
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde	BB	7.62	1373.5698	1	10.21	10.210	ug/mL
Acetaldehyde	BB	11.17	1061.8293	1	9.78	9.777	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone	BB	16.02	830.4917	1	9.95	9.952	ug/mL
Acrolein	BB	17.37	917.6959	1	10.20	10.200	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde	BB	23.35	316.9179	1	3.96	3.959	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\009-1001.D  
**Sample name:** HPLC-STDs014 #RB  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 8:07:53 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Control  
**Location:** 9  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



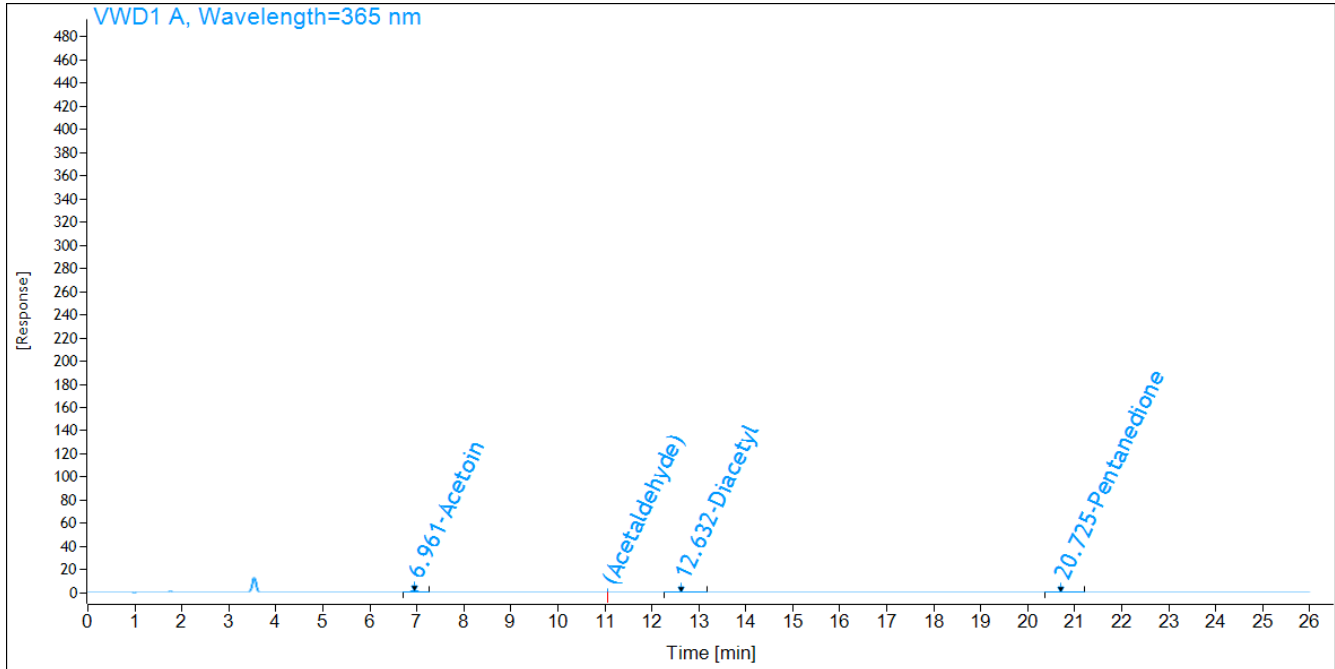
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\091-1101.D  
 Sample name: HPLC-STDs015 #1  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 8:39:04 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 91  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



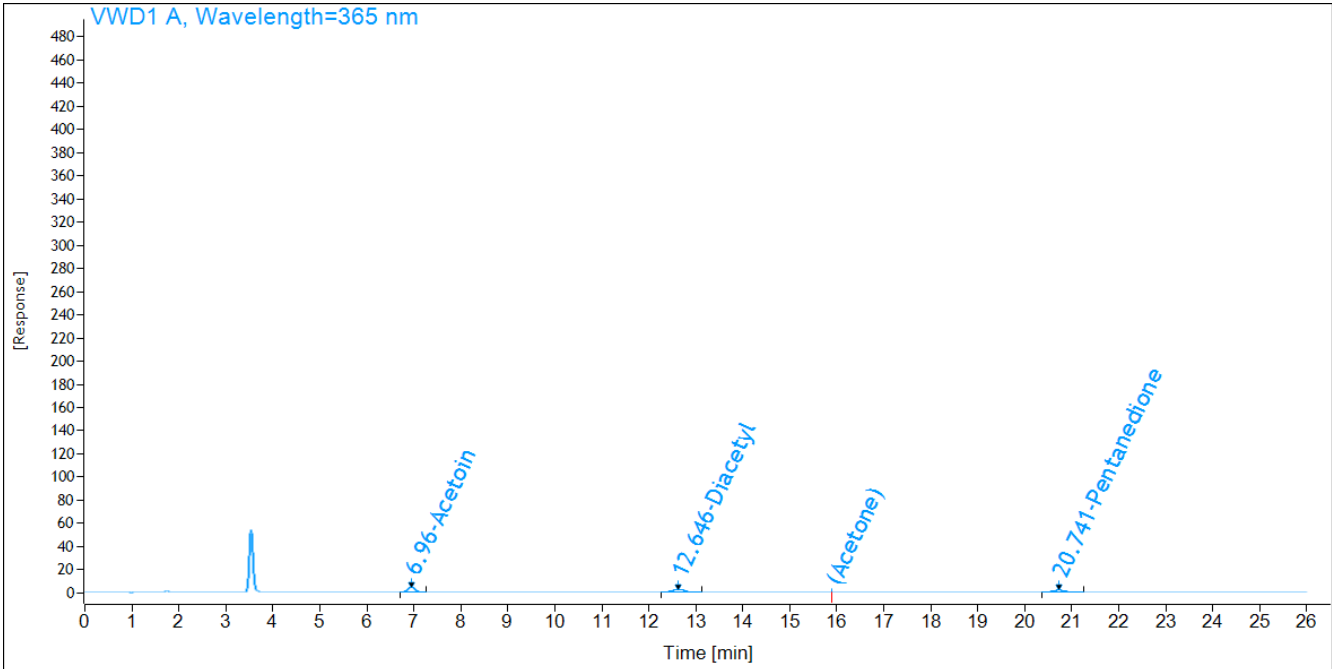
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BB	6.96	12.0794	1	0.28	0.275	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.63	10.4508	1	0.26	0.260	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	BB	20.72	7.7917	1	0.25	0.255	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\092-1201.D  
**Sample name:** HPLC-STDs015 #2  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 9:10:12 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Calibration  
**Location:** 92  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



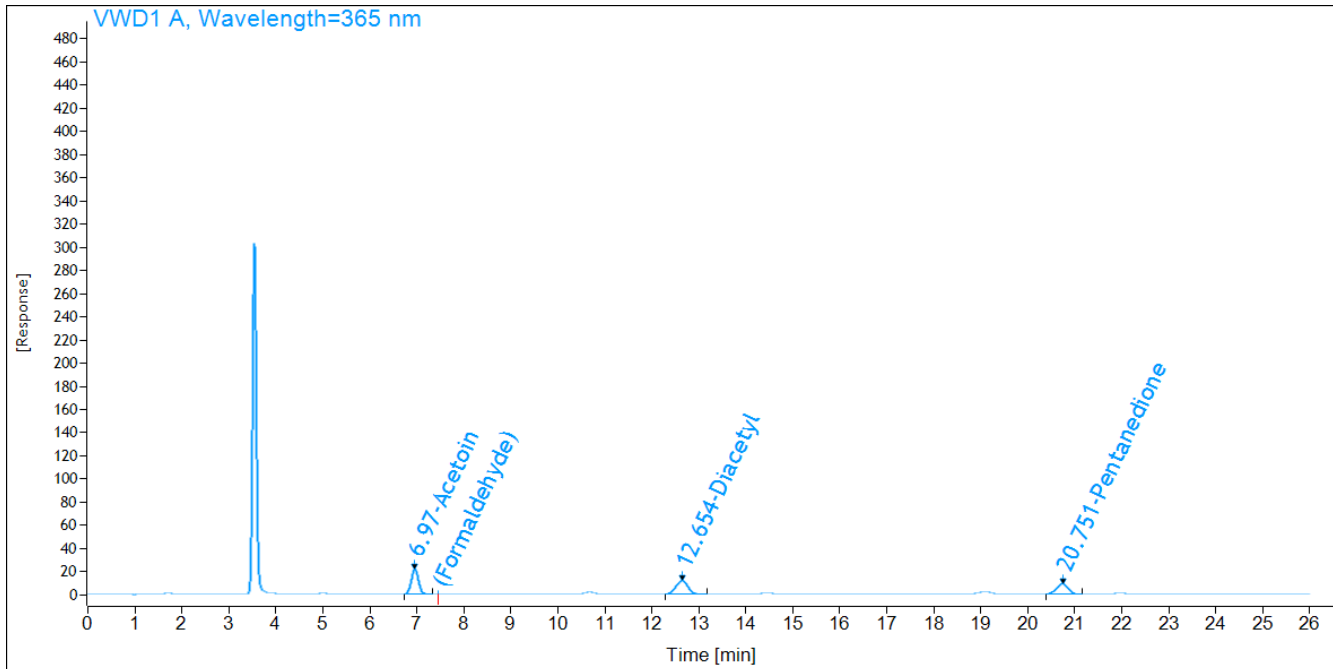
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BB	6.96	46.4078	1	1.02	1.018	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.65	40.6378	1	0.94	0.937	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	BB	20.74	30.1130	1	0.95	0.946	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\093-1301.D  
 Sample name: HPLC-STDs015 #3  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 9:41:22 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 93  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



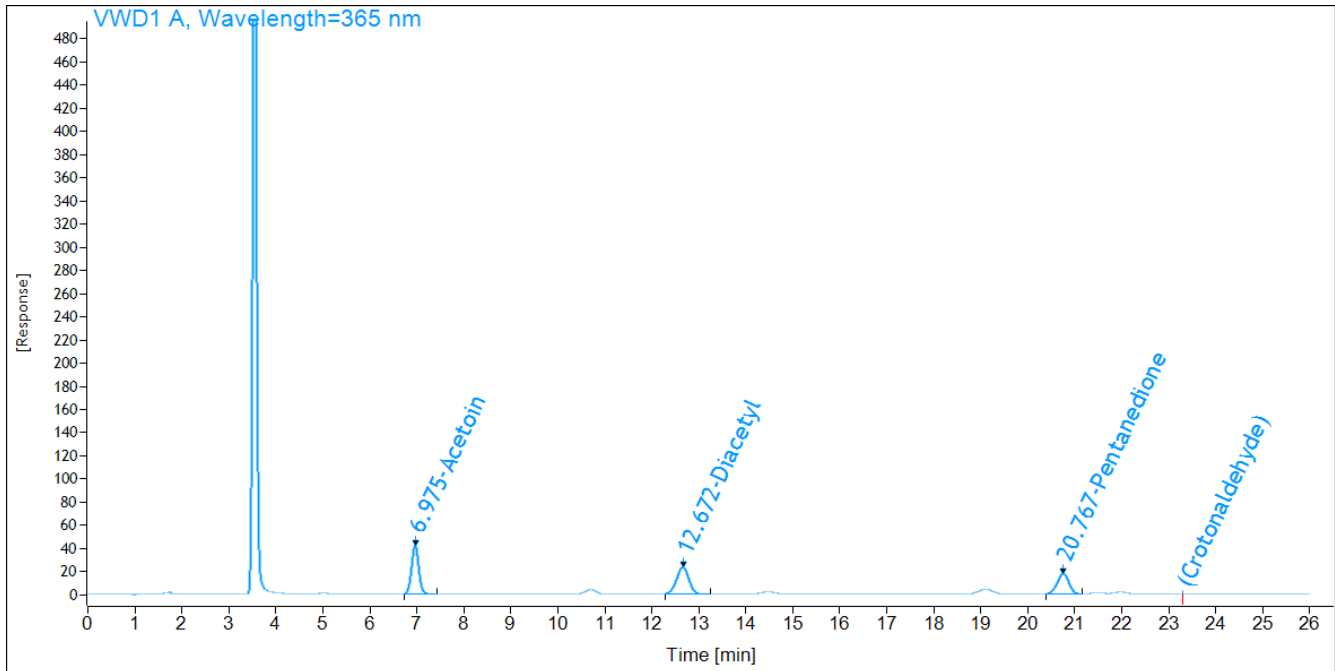
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BB	6.97	230.1452	1	5.00	4.996	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.65	210.3728	1	4.74	4.744	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	BV	20.75	154.4205	1	4.79	4.792	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\094-1401.D  
 Sample name: HPLC-STDs015 #4  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 10:12:30 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 94  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BB	6.97	446.7117	1	9.68	9.684	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.67	423.3657	1	9.52	9.521	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	BV	20.77	309.6918	1	9.60	9.596	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

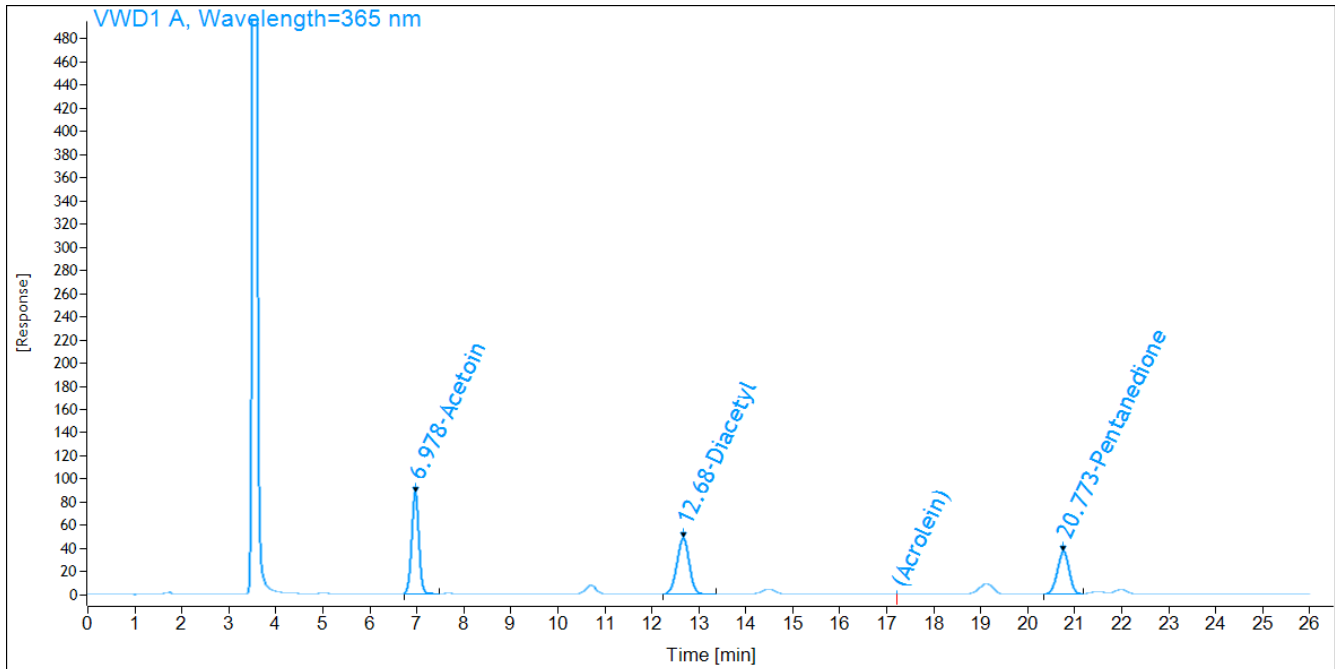


# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\095-1501.D  
 Sample name: HPLC-STDs015 #5  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/3/2014 10:43:40 PM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument:  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Calibration  
 Location: 95  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



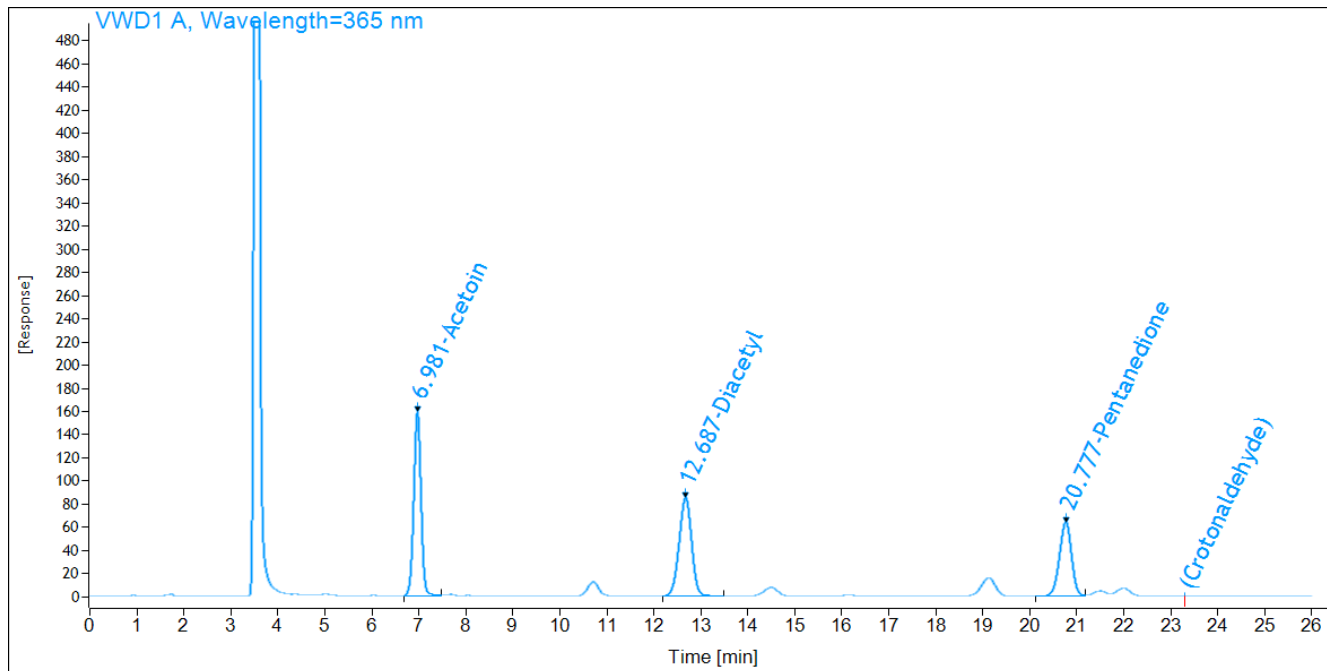
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BV	6.98	944.9490	1	20.47	20.469	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.68	887.6985	1	19.94	19.936	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	BV	20.77	646.3117	1	20.01	20.012	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\096-1601.D  
**Sample name:** HPLC-STDs015 #6  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 11:14:45 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Calibration  
**Location:** 96  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



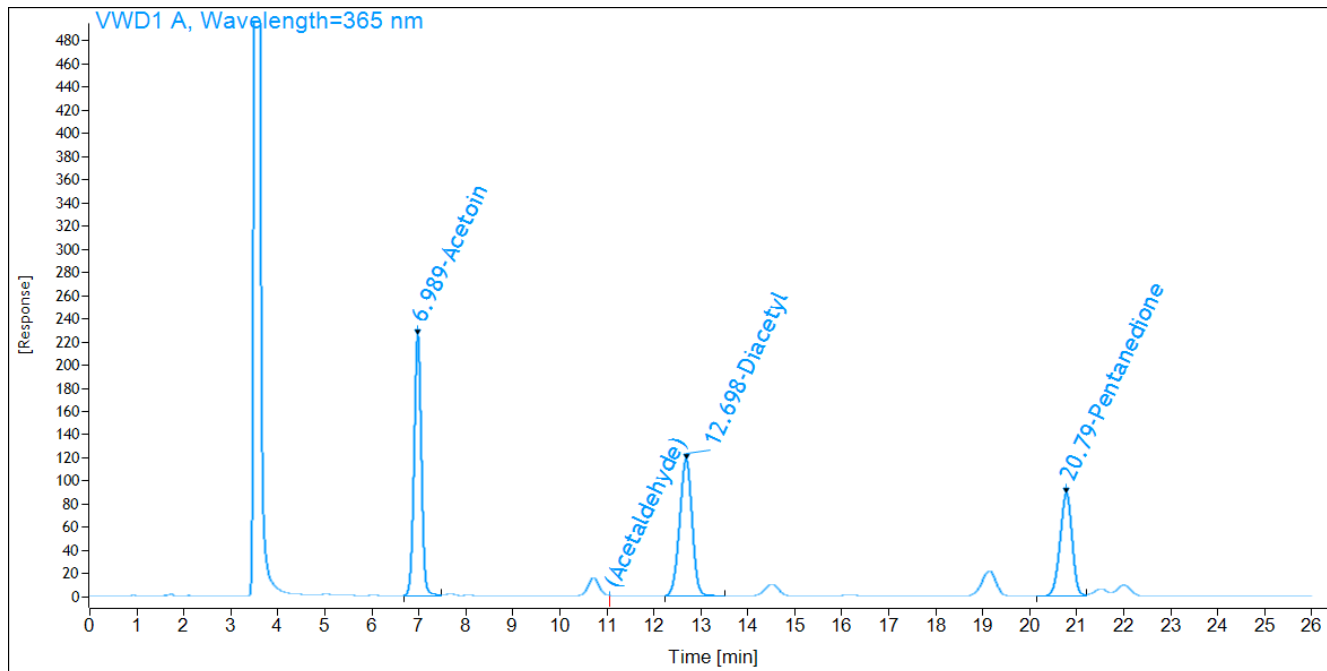
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BV	6.98	1709.8977	1	37.03	37.027	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.69	1569.4164	1	35.23	35.226	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	VV	20.78	1139.9510	1	35.29	35.287	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\097-1701.D  
**Sample name:** HPLC-STDs015 #7  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/3/2014 11:45:55 PM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:** Groucho  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Calibration  
**Location:** 97  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



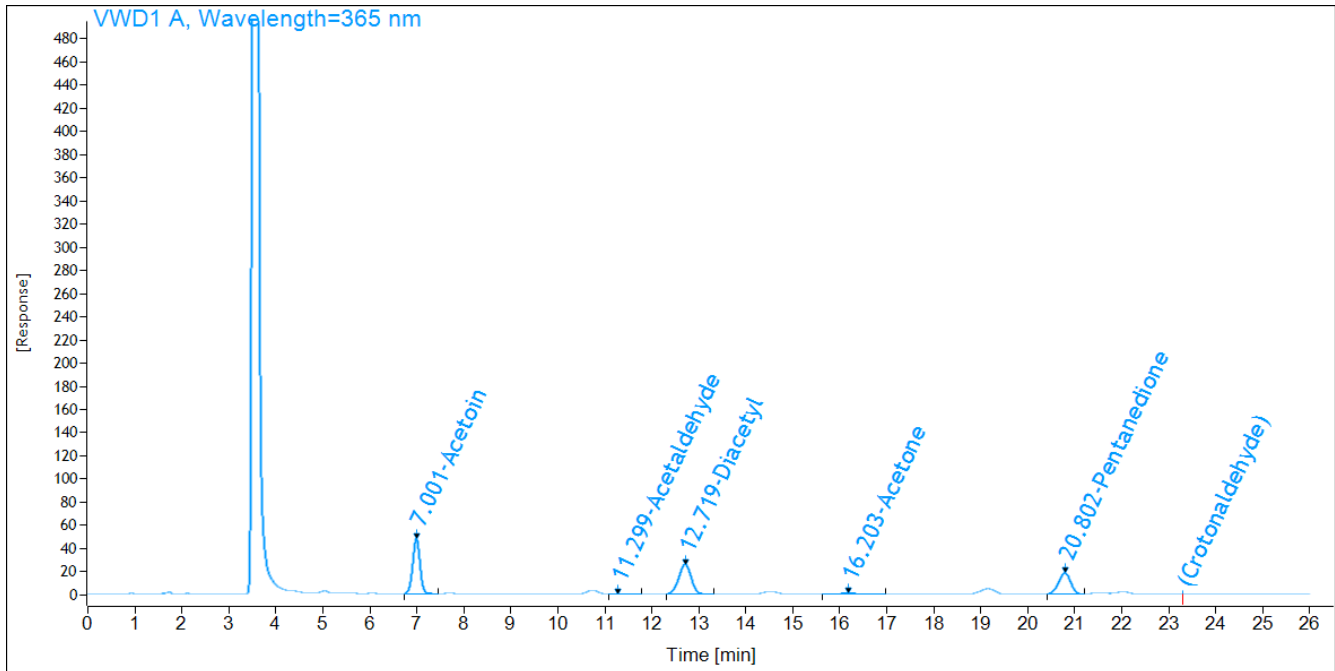
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BV	6.99	2431.2776	1	52.64	52.643	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl	BB	12.70	2194.2720	1	49.24	49.242	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	VV	20.79	1585.5806	1	49.08	49.076	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

Data file: C:\Chem32\1\DATA\GROUCHO126\098-1801.D  
 Sample name: HPLC-STDs015 #SS  
 File\_Location: \TSC Data\2014\Groucho\Quarter 3  
 Injection date: 9/4/2014 12:17:06 AM  
 Acq. method: ELIQUID\_BC\_NEW.M  
 Analysis method: GROUCHO126.M  
 Last changed: 9/5/2014 10:10:52 AM  
 Instrument: Groucho  
 Sequence\_Name: GROUCHO126  
 Acq. operator: Erik Alvarez

Sample type: Control  
 Location: 98  
 Injection volume: 5.000  
 Injection: 1 of 1  
 File\_Version: 7



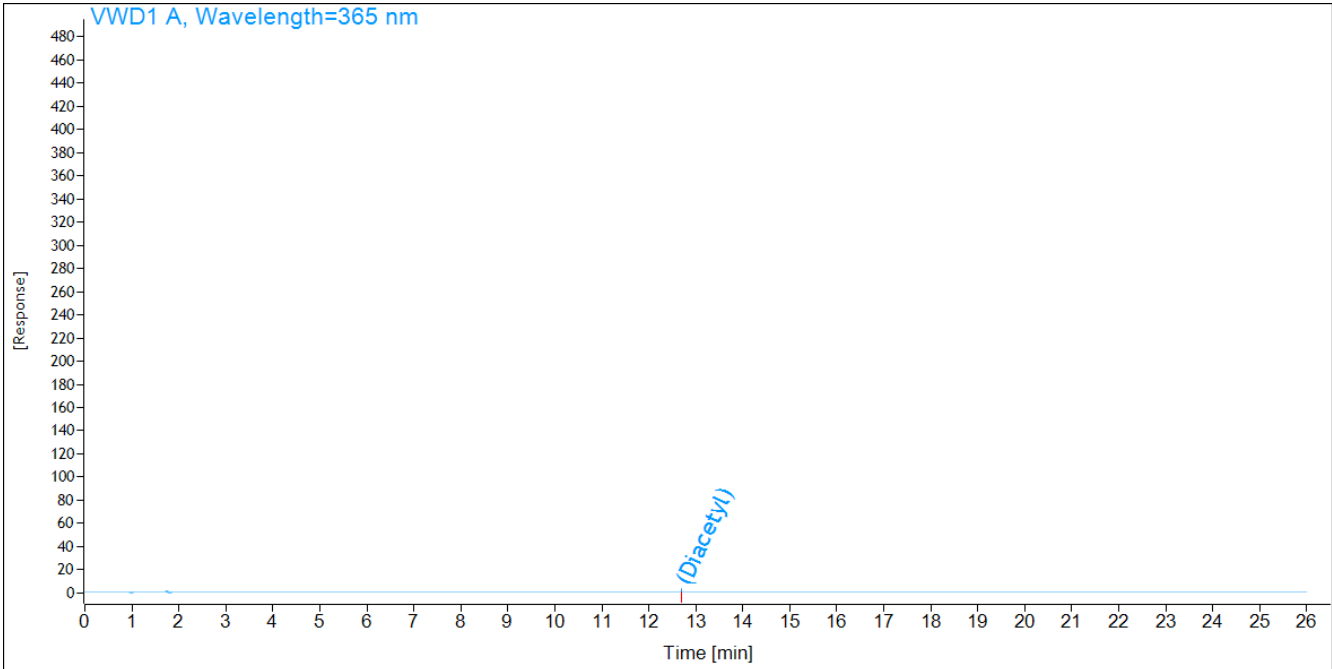
Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin	BV	7.00	512.6542	1	11.11	11.111	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde	VB	11.30	5.8216	1	0.06	0.064	ug/mL
Diacetyl	BB	12.72	476.6700	1	10.72	10.717	ug/mL
Acetone	BB	16.20	22.7318	1	0.28	0.277	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione	BV	20.80	325.8851	1	10.10	10.098	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Chromatogram Report

Enthalpy Analytical, Inc.

**Data file:** C:\Chem32\1\DATA\GROUCHO126\099-1901.D  
**Sample name:** HPLC-STDs015 #RB  
**File\_Location:** \TSC Data\2014\Groucho\Quarter 3  
**Injection date:** 9/4/2014 12:48:09 AM  
**Acq. method:** ELIQUID\_BC\_NEW.M  
**Analysis method:** GROUCHO126.M  
**Last changed:** 9/5/2014 10:10:52 AM  
**Instrument:**  
**Sequence\_Name:** GROUCHO126  
**Acq. operator:** Erik Alvarez

**Sample type:** Control  
**Location:** 99  
**Injection volume:** 5.000  
**Injection:** 1 of 1  
**File\_Version:** 7



Name	Peak_Type	RT [min]	Area	Dil	ug/ml	Sample_Amount	Units
Acetoin				1	0.00	0.000	ug/mL
Formaldehyde				1	0.00	0.000	ug/mL
Acetaldehyde				1	0.00	0.000	ug/mL
Diacetyl				1	0.00	0.000	ug/mL
Acetone				1	0.00	0.000	ug/mL
Acrolein				1	0.00	0.000	ug/mL
Pentanedione				1	0.00	0.000	ug/mL
Crotonaldehyde				1	0.00	0.000	ug/mL

# Raw Data



# Quantitative Analysis Summary Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm eliq.batch.bin  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Quantitation Results

### Target Compound 1-ANP

SampleName	Sample Type	LevelName	Data File	AcqDateTime	Compound	Exp Conc (ng)	Dilution	Final Conc (ng)	Accuracy	2nd An. Review
toluene blk	DoubleBlank		B1403416.D	2014-09-12T11:31	1-ANP		1	841.8937787		LAH091614
ArAm ISTD blk	Blank		B1403417.D	2014-09-12T11:41	1-ANP		1	0		LAH091614
ArAm Std 1	Calibration	1	B1403418.D	2014-09-12T11:51	1-ANP	9.03	1	8.720056974	96.56762984	LAH091614
ArAm Std 3	Calibration	3	B1403419.D	2014-09-12T12:11	1-ANP	90.3	1	92.75060005	102.7138428	LAH091614
ArAm Std 4	Calibration	4	B1403420.D	2014-09-12T12:21	1-ANP	181	1	189.2211531	104.5420735	LAH091614
ArAm Std 5	Calibration	5	B1403421.D	2014-09-12T12:31	1-ANP	271	1	260.6381899	96.17645384	LAH091614
ArAm ISTD blk	Blank		B1403422.D	2014-09-12T12:41	1-ANP		1	0		LAH091614
ArAm SS Std	QC	SS	B1403423.D	2014-09-12T12:51	1-ANP	113	1	106.7693755	94.48617303	LAH091614
Concal (ArAm Std 4)	QC	4	B1403424.D	2014-09-12T13:11	1-ANP	181	1	187.2455825	103.450598	LAH091614
Concal (ArAm Std 4)	QC	4	B1403425.D	2014-09-15T10:11	1-ANP	181	1	189.4051131	104.6437089	LAH091614
0814-52-01	Sample		B1403426.D	2014-09-15T14:01	1-ANP		1	0		LAH091614
0814-52-01MS	QC	LCS	B1403427.D	2014-09-15T14:21	1-ANP	15	1	15.6571496	104.3809974	LAH091614
0814-52 LCS-01	QC	LCS	B1403428.D	2014-09-15T14:31	1-ANP	15	1	15.52405917	103.4937278	LAH091614
0814-52 ArAm Blk-01	Sample		B1403429.D	2014-09-15T14:41	1-ANP		1	0		LAH091614
Concal (ArAm Std 4)	QC	4	B1403430.D	2014-09-15T14:51	1-ANP	181	1	187.6468216	103.6722771	LAH091614

### Target Compound 2-ANP

SampleName	Sample Type	LevelName	Data File	AcqDateTime	Compound	Exp Conc (ng)	Dilution	Final Conc (ng)	Accuracy	2nd An. Review
toluene blk	DoubleBlank		B1403416.D	2014-09-12T11:32	2-ANP		1	334.6674599		LAH091614
ArAm ISTD blk	Blank		B1403417.D	2014-09-12T11:42	2-ANP		1	0		LAH091614
ArAm Std 1	Calibration	1	B1403418.D	2014-09-12T11:52	2-ANP	9.01	1	8.673140987	96.26127622	LAH091614
ArAm Std 3	Calibration	3	B1403419.D	2014-09-12T12:12	2-ANP	90.1	1	93.09928403	103.3288391	LAH091614
ArAm Std 4	Calibration	4	B1403420.D	2014-09-12T12:22	2-ANP	180	1	187.5382273	104.1879041	LAH091614
ArAm Std 5	Calibration	5	B1403421.D	2014-09-12T12:32	2-ANP	270	1	259.7993477	96.22198062	LAH091614
ArAm ISTD blk	Blank		B1403422.D	2014-09-12T12:42	2-ANP		1	0		LAH091614
ArAm SS Std	QC	SS	B1403423.D	2014-09-12T12:52	2-ANP	113	1	107.3112043	94.96566755	LAH091614
Concal (ArAm Std 4)	QC	4	B1403424.D	2014-09-12T13:12	2-ANP	180	1	185.477571	103.043095	LAH091614
Concal (ArAm Std 4)	QC	4	B1403425.D	2014-09-15T10:12	2-ANP	180	1	189.8259574	105.4588652	LAH091614
0814-52-01	Sample		B1403426.D	2014-09-15T14:02	2-ANP		1	0		LAH091614
0814-52-01MS	QC	LCS	B1403427.D	2014-09-15T14:22	2-ANP	15	1	15.06684777	100.4456518	LAH091614
0814-52 LCS-01	QC	LCS	B1403428.D	2014-09-15T14:32	2-ANP	15	1	14.94228875	99.61525833	LAH091614
0814-52 ArAm Blk-01	Sample		B1403429.D	2014-09-15T14:42	2-ANP		1	0		LAH091614
Concal (ArAm Std 4)	QC	4	B1403430.D	2014-09-15T14:52	2-ANP	180	1	181.818908	101.0105044	LAH091614

### Target Compound 4-ABP

## Quantitative Analysis Summary Report

SampleName	Sample Type	LevelName	Data File	AcqDateTime	Compound	Exp Conc (ng)	Dilution	Final Conc (ng)	Accuracy	2nd An. Review
toluene blk	DoubleBlank		B1403416.D	2014-09-12T11:34-ABP			1	19.75717442		LAH091614
ArAm ISTD blk	Blank		B1403417.D	2014-09-12T11:44-ABP			1	0		LAH091614
ArAm Std 1	Calibration	1	B1403418.D	2014-09-12T11:54-ABP		0.9	1	0.874943257	97.21591747	LAH091614
ArAm Std 3	Calibration	3	B1403419.D	2014-09-12T12:14-ABP		9	1	9.129341139	101.4371238	LAH091614
ArAm Std 4	Calibration	4	B1403420.D	2014-09-12T12:24-ABP		18	1	18.93592652	105.1995918	LAH091614
ArAm Std 5	Calibration	5	B1403421.D	2014-09-12T12:34-ABP		27	1	25.95978908	96.14736697	LAH091614
ArAm ISTD blk	Blank		B1403422.D	2014-09-12T12:44-ABP			1	0		LAH091614
ArAm SS Std	QC	SS	B1403423.D	2014-09-12T12:54-ABP		22.5	1	20.17721406	89.67650695	LAH091614
Concal (ArAm Std 4)	QC	4	B1403424.D	2014-09-12T13:14-ABP		18	1	18.66555649	103.6975361	LAH091614
Concal (ArAm Std 4)	QC	4	B1403425.D	2014-09-15T10:14-ABP		18	1	18.23161987	101.2867771	LAH091614
0814-52-01	Sample		B1403426.D	2014-09-15T14:04-ABP			1	0		LAH091614
0814-52-01MS	QC	LCS	B1403427.D	2014-09-15T14:24-ABP		1.5	1	1.321035638	88.06904253	LAH091614
0814-52 LCS-01	QC	LCS	B1403428.D	2014-09-15T14:34-ABP		1.5	1	1.271338789	84.75591929	LAH091614
0814-52 ArAm Blk-01	Sample		B1403429.D	2014-09-15T14:44-ABP			1	0		LAH091614
Concal (ArAm Std 4)	QC	4	B1403430.D	2014-09-15T14:54-ABP		18	1	18.51961534	102.8867519	LAH091614



# Quantitative Analysis Calibration Report

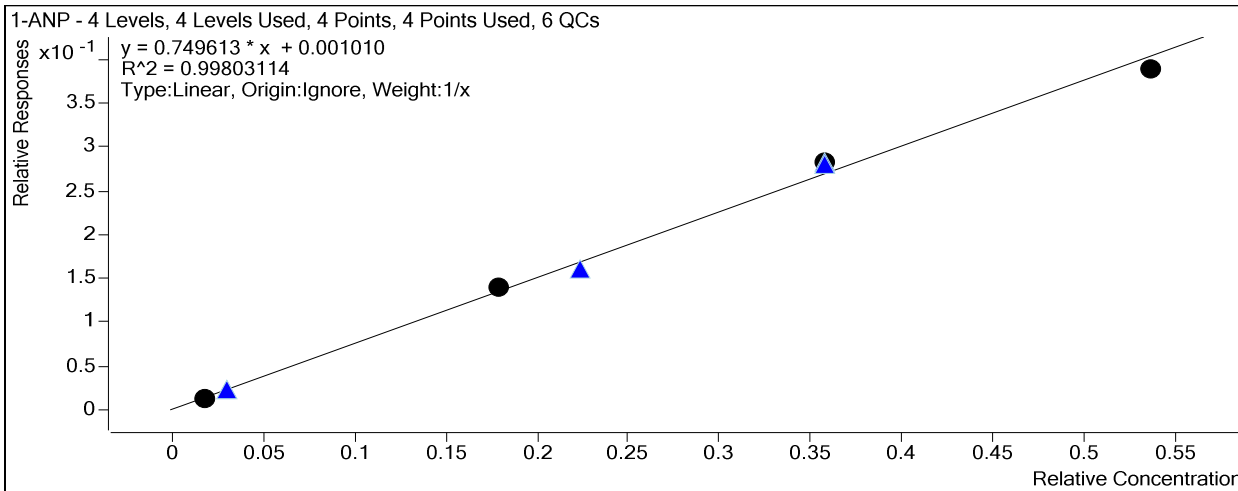
<b>Batch Data Path</b>	D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm eli		
<b>Analysis Time</b>	9/16/2014 11:28 AM	<b>Analyst Name</b>	EAINC\SBrown
<b>Report Time</b>	9/16/2014 11:29 AM	<b>Reporter Name</b>	EAINC\SBrown
<b>Last Calib Update</b>	9/16/2014 11:28 AM	<b>Batch State</b>	Processed

## Calibration Info

**ISTD Compound**      *1-ANP-d7*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\Data\MS2014Q3\Bender\data: Calibration		1	<input checked="" type="checkbox"/>	437782	505.0000	866.8955
D:\Data\MS2014Q3\Bender\data: Calibration		3	<input checked="" type="checkbox"/>	377025	505.0000	746.5833
D:\Data\MS2014Q3\Bender\data: Calibration		4	<input checked="" type="checkbox"/>	654496	505.0000	1296.0309
D:\Data\MS2014Q3\Bender\data: QC		4	<input checked="" type="checkbox"/>	634470	505.0000	1256.3760
D:\Data\MS2014Q3\Bender\data: QC		4	<input checked="" type="checkbox"/>	572759	505.0000	1134.1753
D:\Data\MS2014Q3\Bender\data: QC		4	<input checked="" type="checkbox"/>	681821	505.0000	1350.1414
D:\Data\MS2014Q3\Bender\data: Calibration		5	<input checked="" type="checkbox"/>	528655	505.0000	1046.8424
D:\Data\MS2014Q3\Bender\data: QC		LCS	<input checked="" type="checkbox"/>	68289	505.0000	135.2260
D:\Data\MS2014Q3\Bender\data: QC		LCS	<input checked="" type="checkbox"/>	92357	505.0000	182.8848
D:\Data\MS2014Q3\Bender\data: QC		SS	<input checked="" type="checkbox"/>	416405	505.0000	824.5640

**Target Compound**      *1-ANP*



Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\Data\MS2014Q3\Bender\data: Calibration		1	<input checked="" type="checkbox"/>	6109	9.0300	0.7804
D:\Data\MS2014Q3\Bender\data: Calibration		3	<input checked="" type="checkbox"/>	52289	90.3000	0.7756
D:\Data\MS2014Q3\Bender\data: Calibration		4	<input checked="" type="checkbox"/>	184494	181.0000	0.7865
D:\Data\MS2014Q3\Bender\data: QC		4	<input checked="" type="checkbox"/>	176988	181.0000	0.7783
D:\Data\MS2014Q3\Bender\data: QC		4	<input checked="" type="checkbox"/>	161610	181.0000	0.7872
D:\Data\MS2014Q3\Bender\data: QC		4	<input checked="" type="checkbox"/>	190603	181.0000	0.7800
D:\Data\MS2014Q3\Bender\data: Calibration		5	<input checked="" type="checkbox"/>	205064	271.0000	0.7228
D:\Data\MS2014Q3\Bender\data: QC		LCS	<input checked="" type="checkbox"/>	1656	15.0000	0.8165
D:\Data\MS2014Q3\Bender\data: QC		LCS	<input checked="" type="checkbox"/>	2222	15.0000	0.8098
D:\Data\MS2014Q3\Bender\data: QC		SS	<input checked="" type="checkbox"/>	66415	113.0000	0.7128

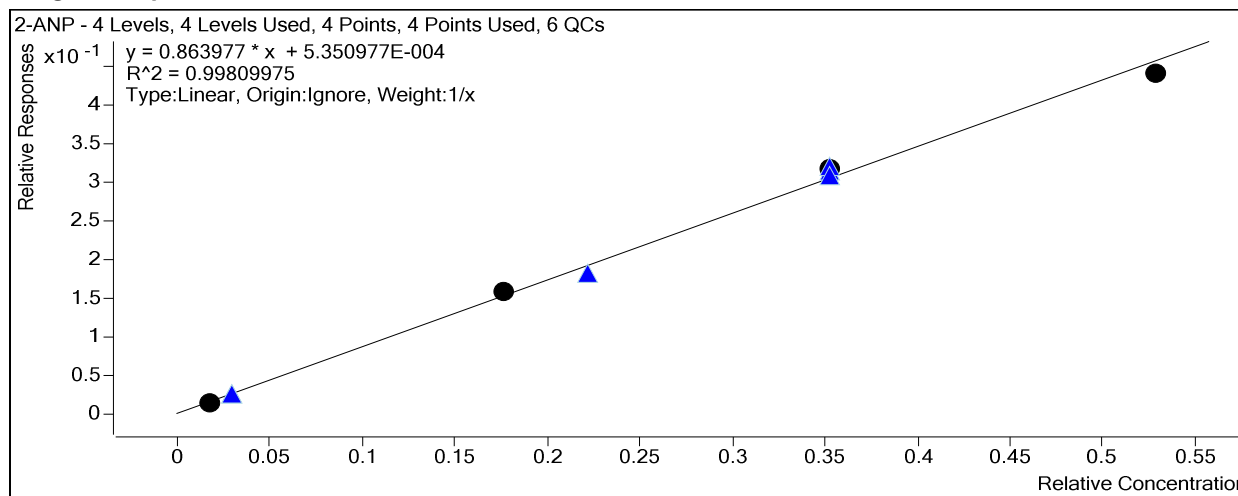
**ISTD Compound**      *2-ANP-d7*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
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# Quantitative Analysis Calibration Report

D:\Data\MS2014Q3\Bender\dat: Calibration	1	<input checked="" type="checkbox"/>	964078	511.0000	1886.6500
D:\Data\MS2014Q3\Bender\dat: Calibration	3	<input checked="" type="checkbox"/>	848832	511.0000	1661.1188
D:\Data\MS2014Q3\Bender\dat: Calibration	4	<input checked="" type="checkbox"/>	1213622	511.0000	2374.9932
D:\Data\MS2014Q3\Bender\dat: QC	4	<input checked="" type="checkbox"/>	1166875	511.0000	2283.5133
D:\Data\MS2014Q3\Bender\dat: QC	4	<input checked="" type="checkbox"/>	979970	511.0000	1917.7488
D:\Data\MS2014Q3\Bender\dat: QC	4	<input checked="" type="checkbox"/>	1327528	511.0000	2597.9024
D:\Data\MS2014Q3\Bender\dat: Calibration	5	<input checked="" type="checkbox"/>	1118200	511.0000	2188.2589
D:\Data\MS2014Q3\Bender\dat: QC	LCS	<input checked="" type="checkbox"/>	172395	511.0000	337.3686
D:\Data\MS2014Q3\Bender\dat: QC	LCS	<input checked="" type="checkbox"/>	222919	511.0000	436.2410
D:\Data\MS2014Q3\Bender\dat: QC	SS	<input checked="" type="checkbox"/>	929264	511.0000	1818.5212

**Target Compound**      *2-ANP*



Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\Data\MS2014Q3\Bender\dat: Calibration		1	<input checked="" type="checkbox"/>	14653	9.0100	0.8620
D:\Data\MS2014Q3\Bender\dat: Calibration		3	<input checked="" type="checkbox"/>	134067	90.1000	0.8958
D:\Data\MS2014Q3\Bender\dat: Calibration		4	<input checked="" type="checkbox"/>	385467	180.0000	0.9017
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	366554	180.0000	0.8918
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	315045	180.0000	0.9127
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	408808	180.0000	0.8742
D:\Data\MS2014Q3\Bender\dat: Calibration		5	<input checked="" type="checkbox"/>	491776	270.0000	0.8323
D:\Data\MS2014Q3\Bender\dat: QC		LCS	<input checked="" type="checkbox"/>	4484	15.0000	0.8861
D:\Data\MS2014Q3\Bender\dat: QC		LCS	<input checked="" type="checkbox"/>	5751	15.0000	0.8789
D:\Data\MS2014Q3\Bender\dat: QC		SS	<input checked="" type="checkbox"/>	169100	113.0000	0.8229

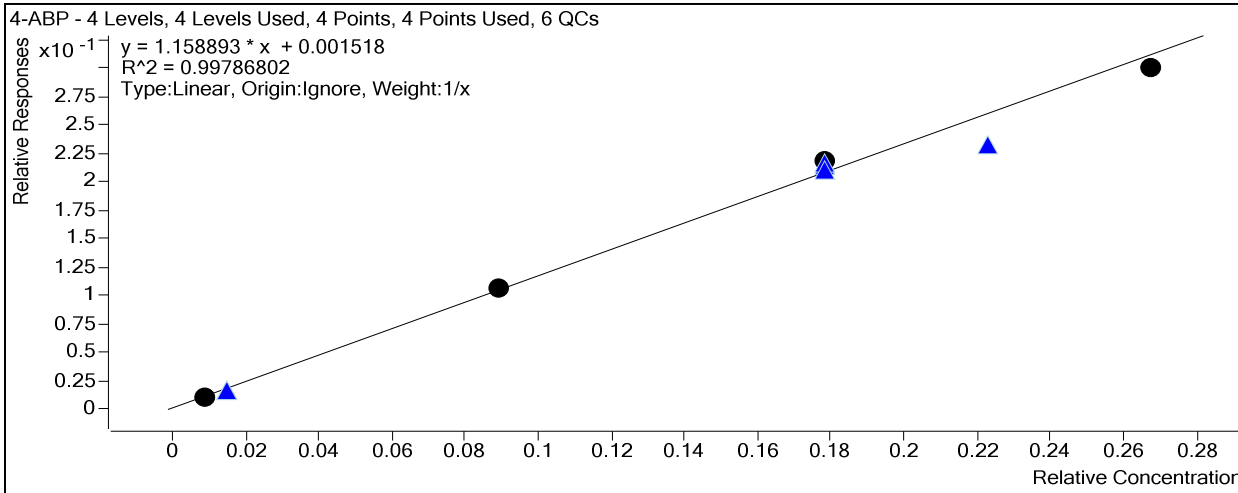
**ISTD Compound**      *4-ABP-d9*

Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\Data\MS2014Q3\Bender\dat: Calibration		1	<input checked="" type="checkbox"/>	214773	101.0000	2126.4646
D:\Data\MS2014Q3\Bender\dat: Calibration		3	<input checked="" type="checkbox"/>	191393	101.0000	1894.9804
D:\Data\MS2014Q3\Bender\dat: Calibration		4	<input checked="" type="checkbox"/>	272915	101.0000	2702.1294
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	262608	101.0000	2600.0838
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	193141	101.0000	1912.2845
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	291584	101.0000	2886.9744
D:\Data\MS2014Q3\Bender\dat: Calibration		5	<input checked="" type="checkbox"/>	256052	101.0000	2535.1655
D:\Data\MS2014Q3\Bender\dat: QC		LCS	<input checked="" type="checkbox"/>	40174	101.0000	397.7630

# Quantitative Analysis Calibration Report

D:\Data\MS2014Q3\Bender\dat: QC	LCS	<input checked="" type="checkbox"/>	58688	101.0000	581.0652
D:\Data\MS2014Q3\Bender\dat: QC	SS	<input checked="" type="checkbox"/>	213518	101.0000	2114.0392

**Target Compound**      *4-ABP*



Calibration STD	Cal Type	Level	Enabled	Response	Exp Conc	RF
D:\Data\MS2014Q3\Bender\dat: Calibration		1	<input checked="" type="checkbox"/>	2482	0.9000	1.2970
D:\Data\MS2014Q3\Bender\dat: Calibration		3	<input checked="" type="checkbox"/>	20339	9.0000	1.1926
D:\Data\MS2014Q3\Bender\dat: Calibration		4	<input checked="" type="checkbox"/>	59712	18.0000	1.2277
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	56642	18.0000	1.2103
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	40697	18.0000	1.1823
D:\Data\MS2014Q3\Bender\dat: QC		4	<input checked="" type="checkbox"/>	62404	18.0000	1.2009
D:\Data\MS2014Q3\Bender\dat: Calibration		5	<input checked="" type="checkbox"/>	76658	27.0000	1.1199
D:\Data\MS2014Q3\Bender\dat: QC		LCS	<input checked="" type="checkbox"/>	670	1.5000	1.1228
D:\Data\MS2014Q3\Bender\dat: QC		LCS	<input checked="" type="checkbox"/>	945	1.5000	1.0844
D:\Data\MS2014Q3\Bender\dat: QC		SS	<input checked="" type="checkbox"/>	49757	22.5000	1.0461

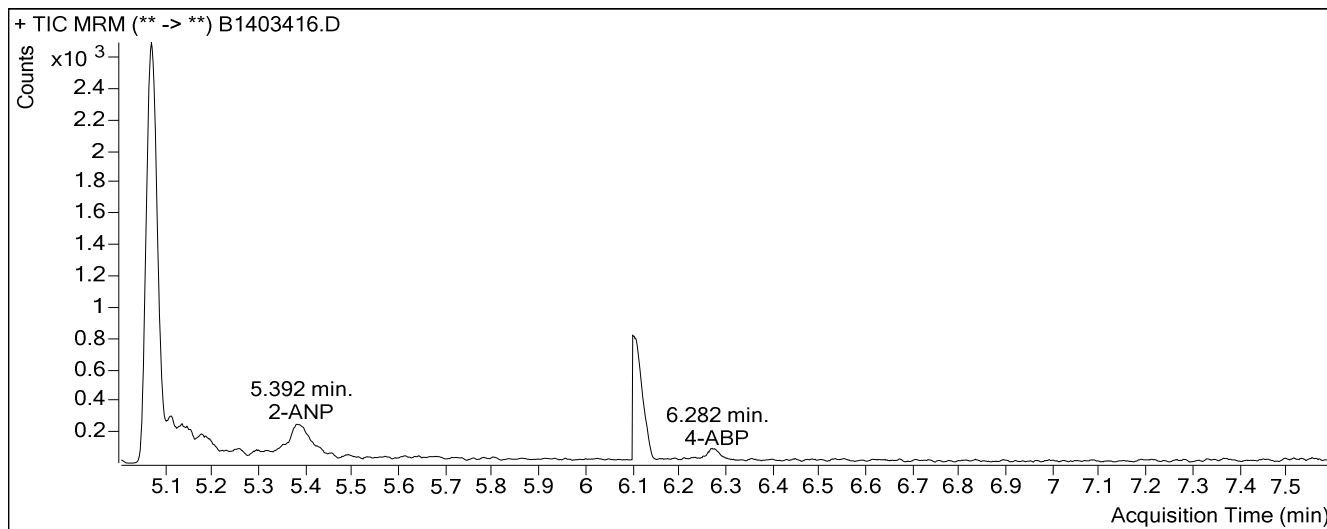
# Quantitative Analysis Sample Report

Batch Data Path D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
Analysis Time 9/16/2014 11:28 AM Analyst Name EAINC\SBrown  
Report Time 9/16/2014 11:29 AM Reporter Name EAINC\SBrown  
Last Calib Update 9/16/2014 11:28 AM Batch State Processed

## Analysis Info

Acq Time 2014-09-12 11:36 Data File B1403416.D  
Position 51 Sample Name toluene blk  
Dilution 1 Sample Info  
Inj Vol 1 Acq Method File ArAm-Val05-ANP\_4ABP-PSL230  
Sample Type DoubleBlank Comment

## Sample Chromatogram

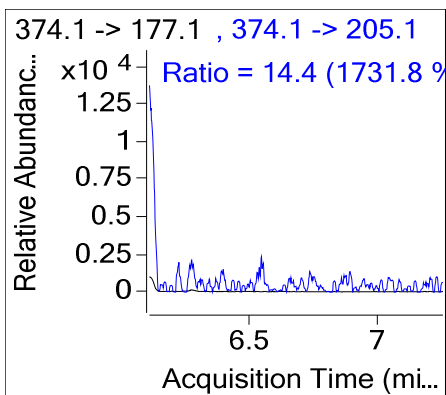
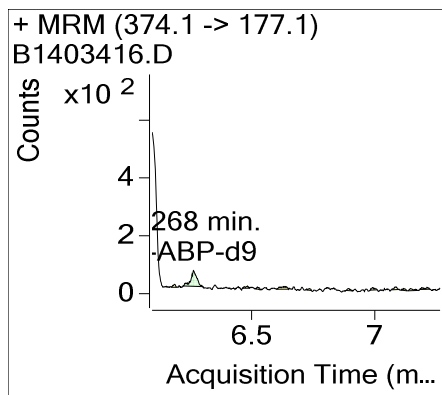
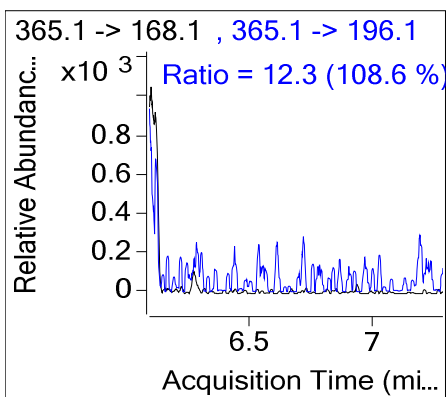
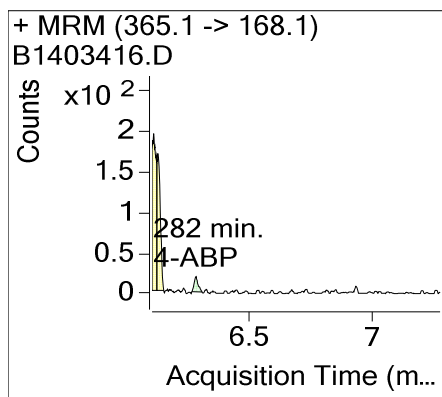
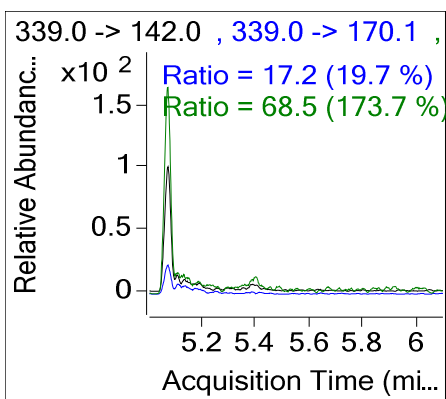
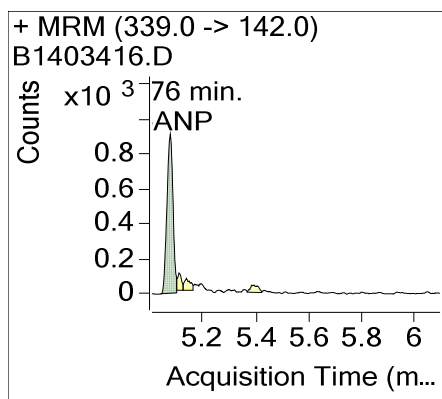
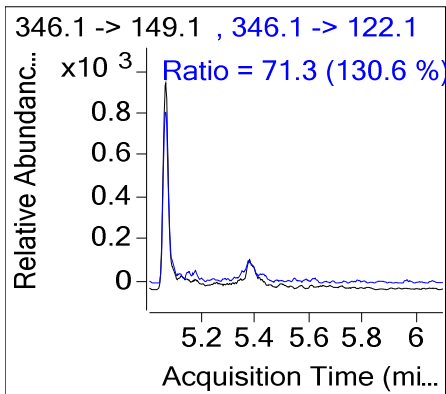
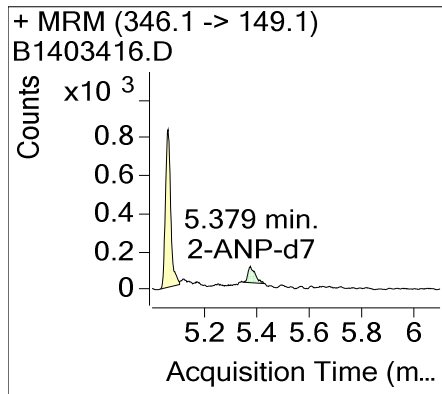


## Quantitation Results

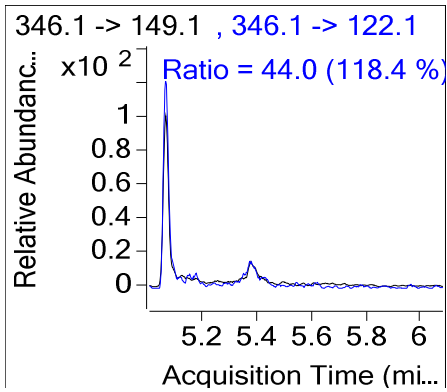
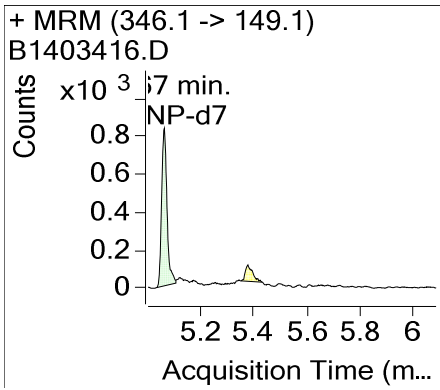
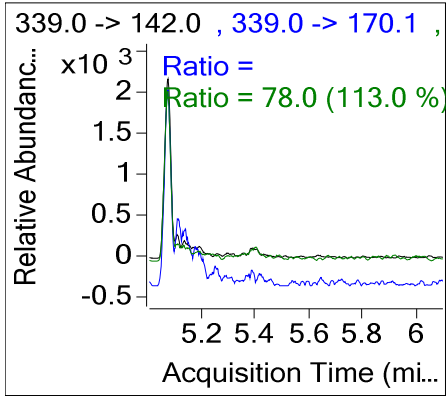
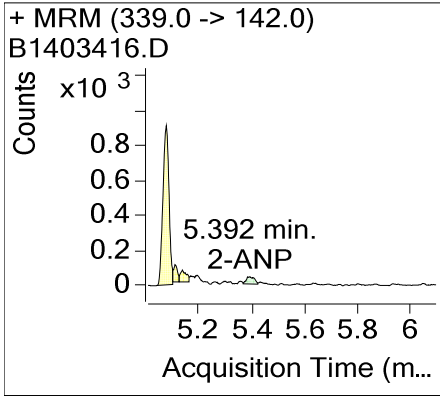
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.076	841.8938	
2-ANP	2-ANP-d7	5.392	334.6675	
4-ABP	4-ABP-d9	6.282	19.7572	

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



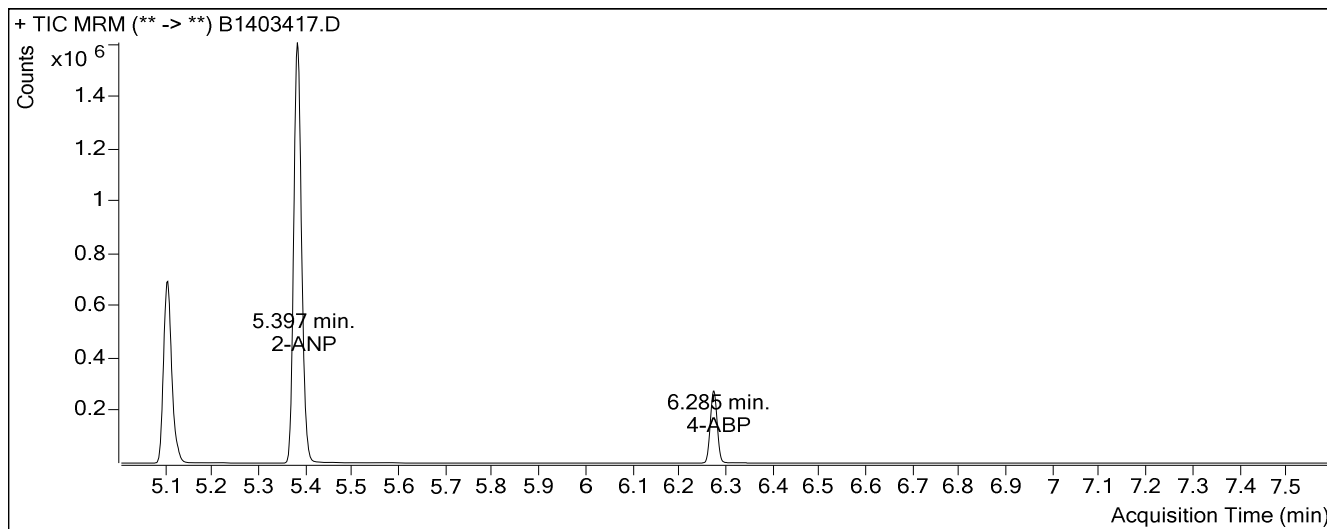
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 11:48 **Data File** B1403417.D  
**Position** 58 **Sample Name** ArAm ISTD blk  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Blank **Comment** TSCStd-0096-15

## Sample Chromatogram

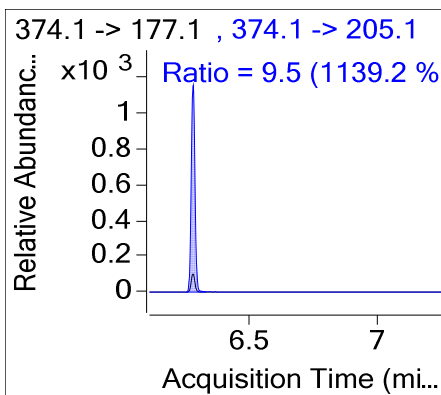
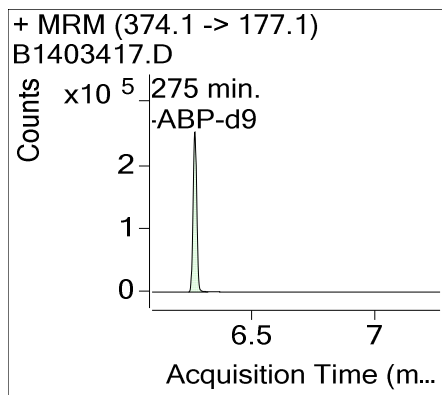
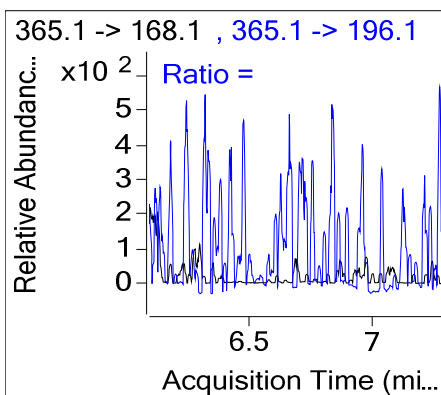
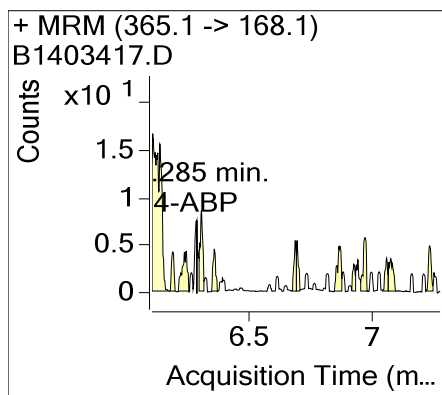
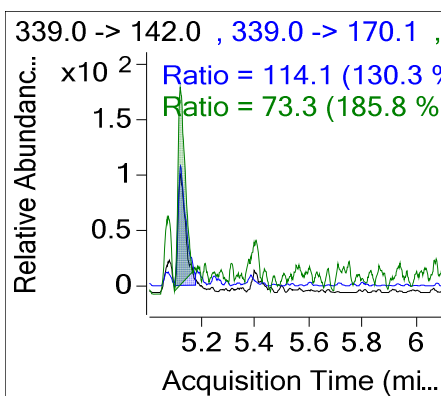
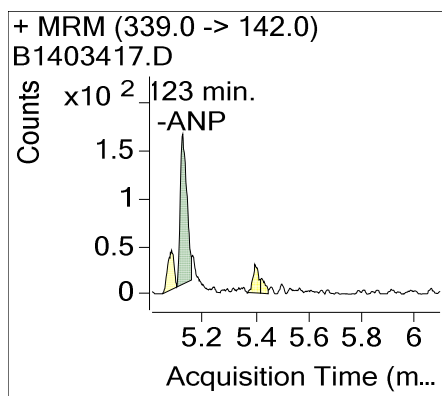
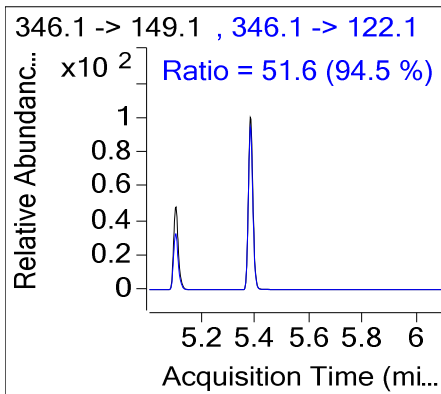
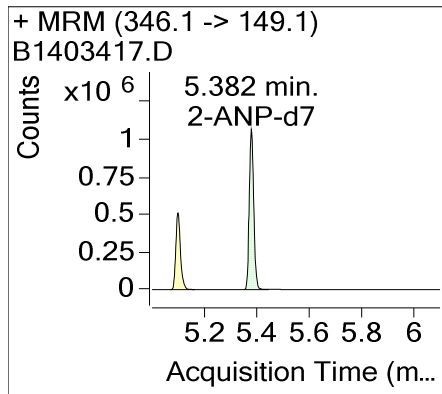


## Quantitation Results

Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.123	0.0000	
2-ANP	2-ANP-d7	5.397	0.0000	
4-ABP	4-ABP-d9	6.285	0.0000	

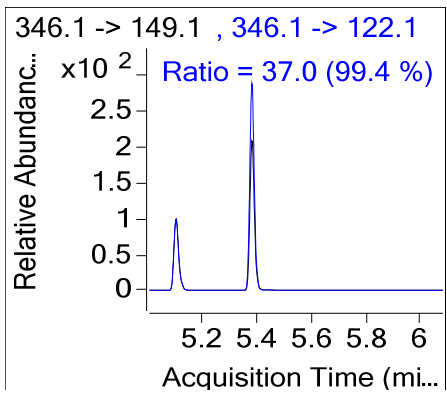
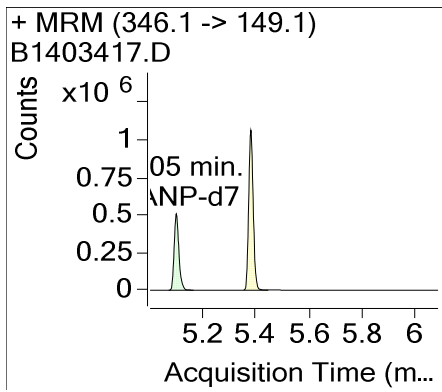
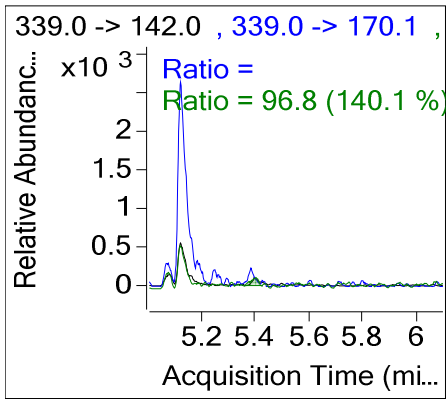
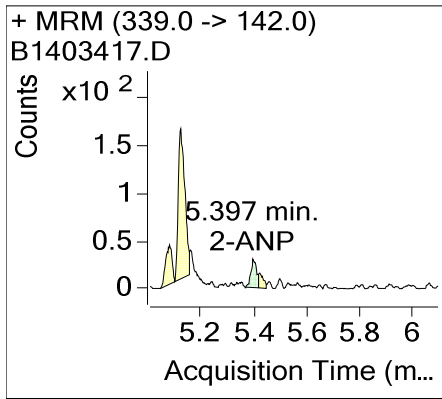
# Quantitative Analysis Sample Report

## Compound Graphics





# Quantitative Analysis Sample Report



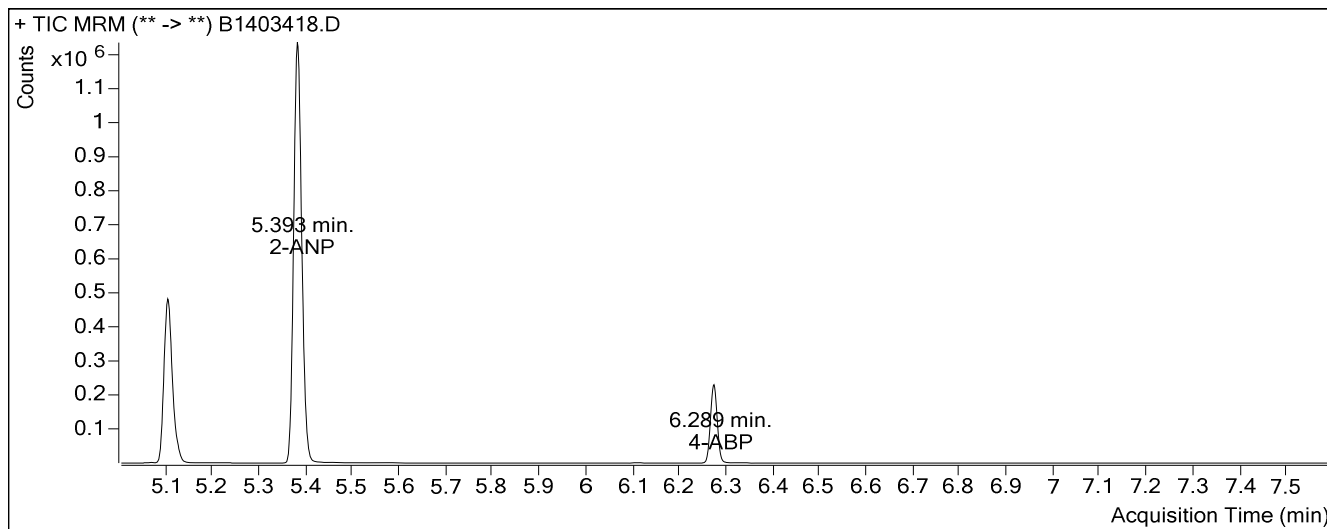
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 11:59 **Data File** B1403418.D  
**Position** 52 **Sample Name** ArAm Std 1  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Calibration **Comment** TSCStd-0096-9

## Sample Chromatogram

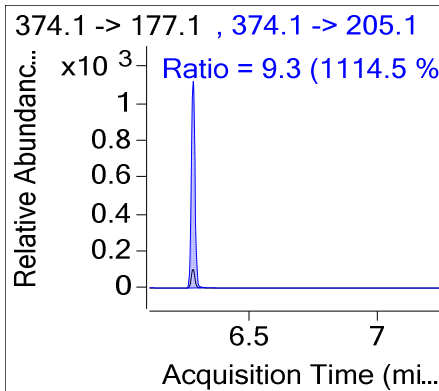
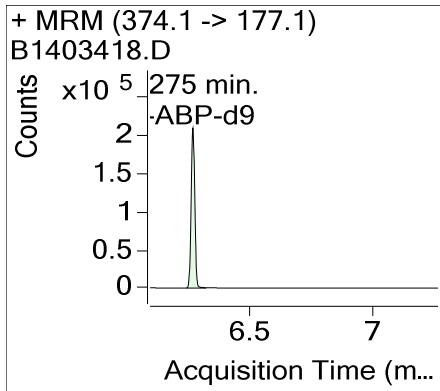
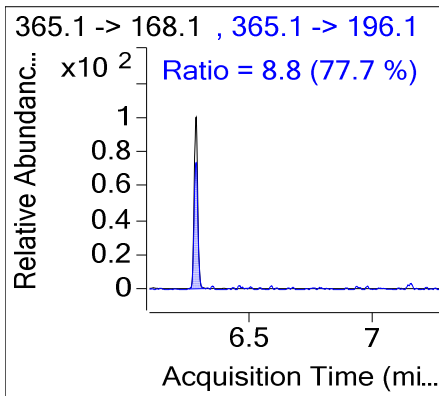
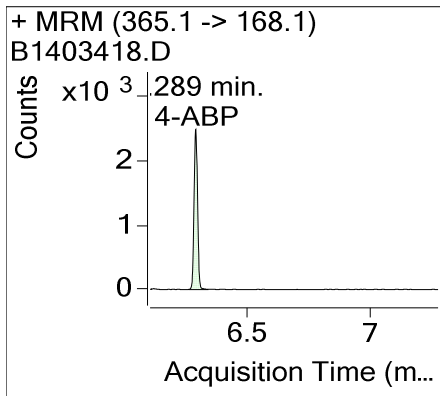
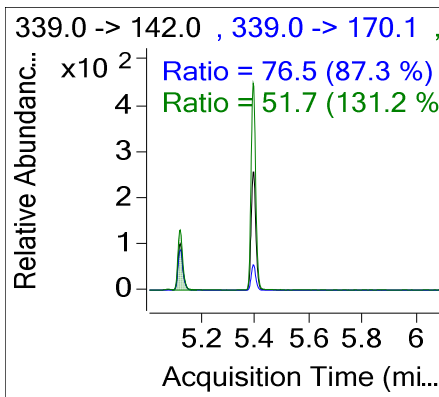
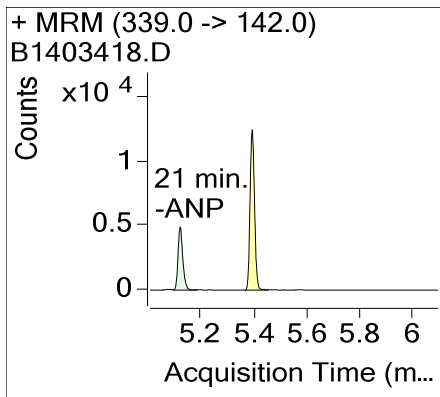
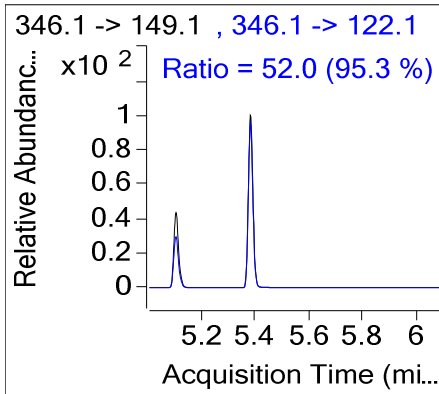
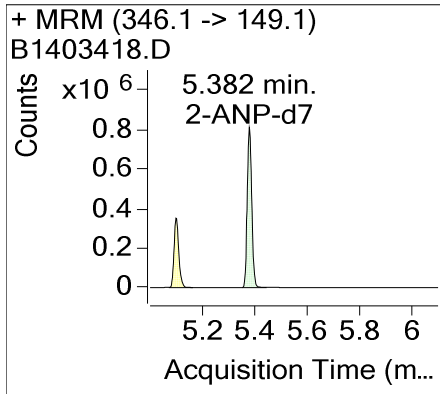


## Quantitation Results

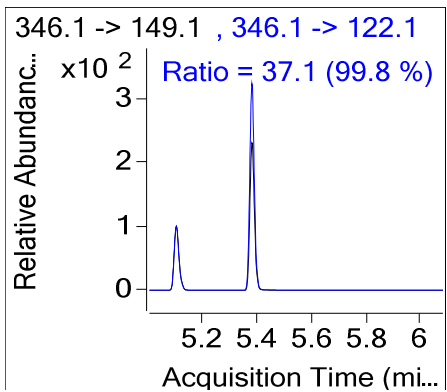
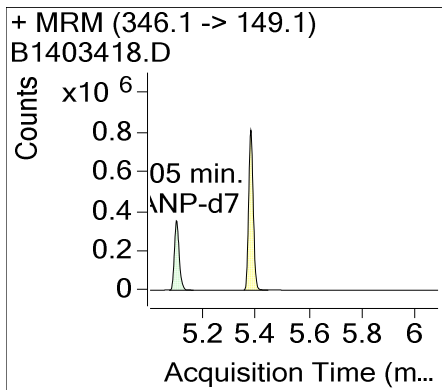
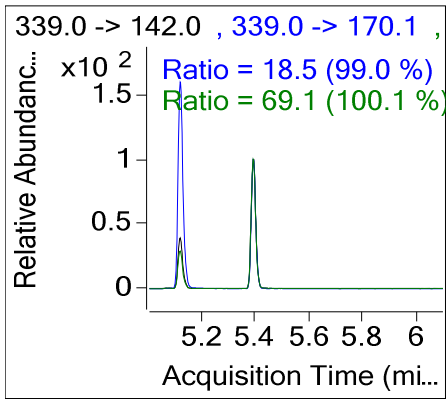
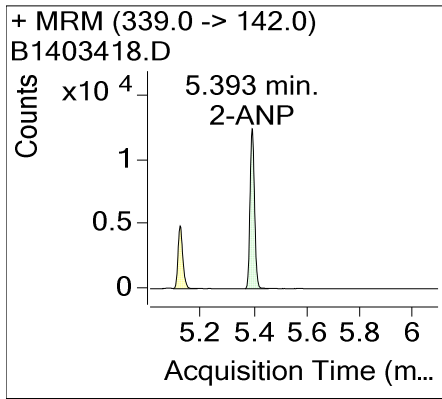
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.121	8.7201	96.57
2-ANP	2-ANP-d7	5.393	8.6731	96.26
4-ABP	4-ABP-d9	6.289	0.8749	97.22

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



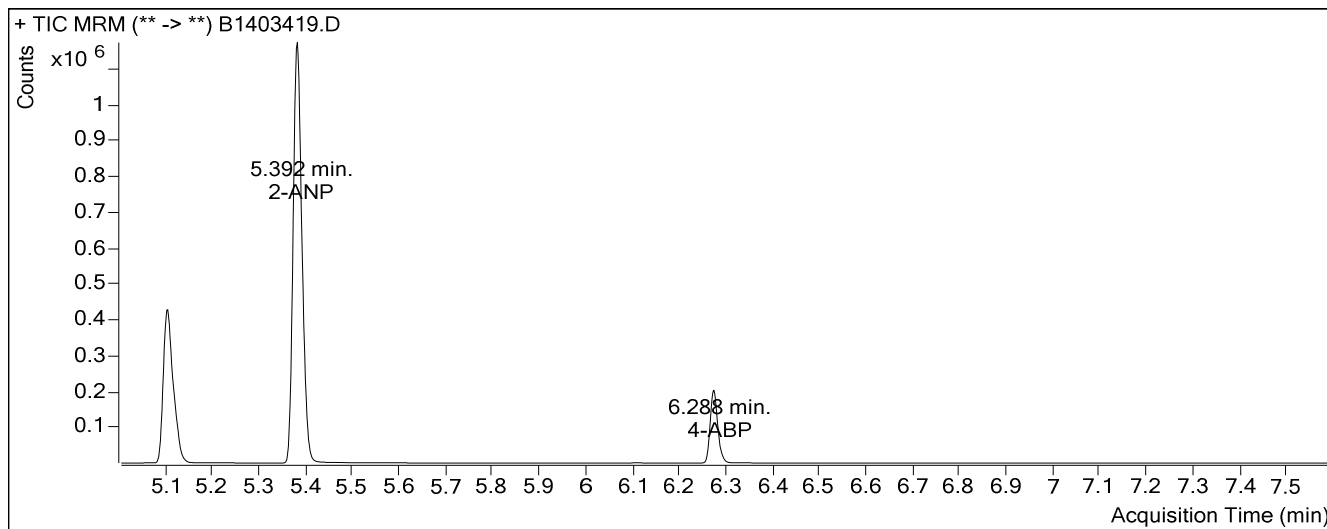
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 12:11 **Data File** B1403419.D  
**Position** 54 **Sample Name** ArAm Std 3  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Calibration **Comment** TSCStd-0096-11

## Sample Chromatogram

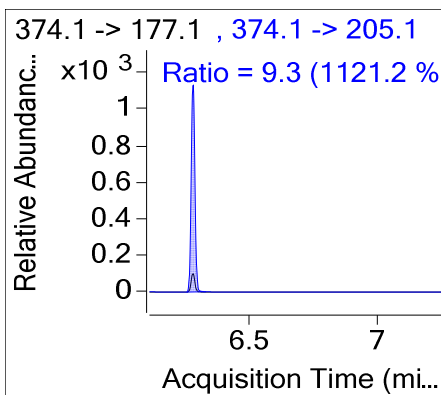
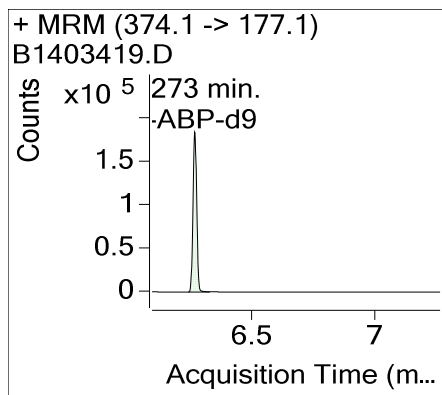
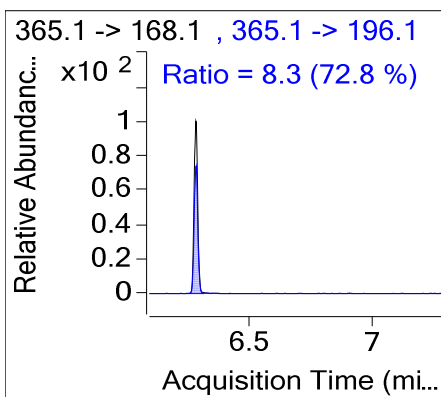
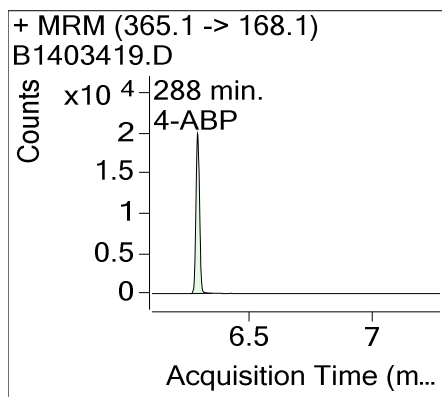
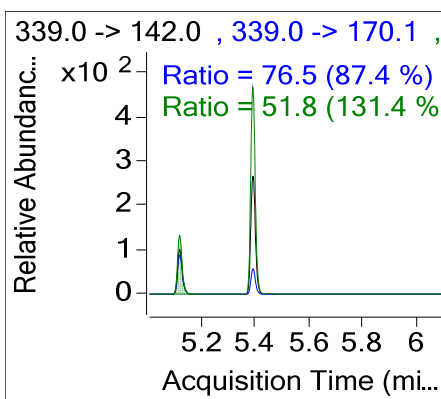
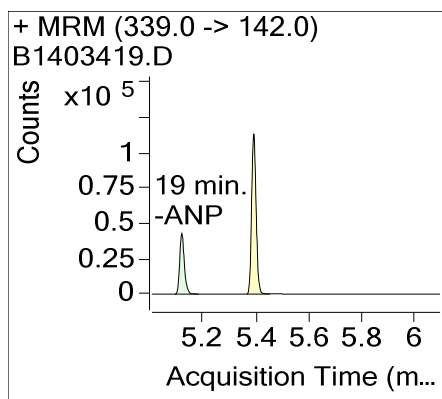
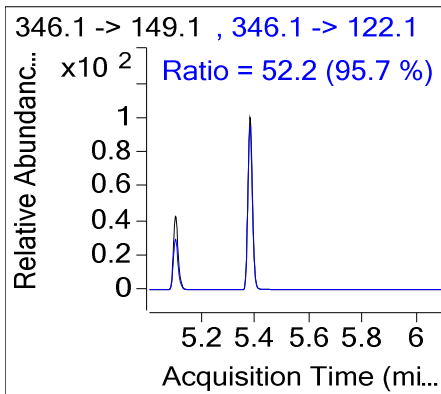
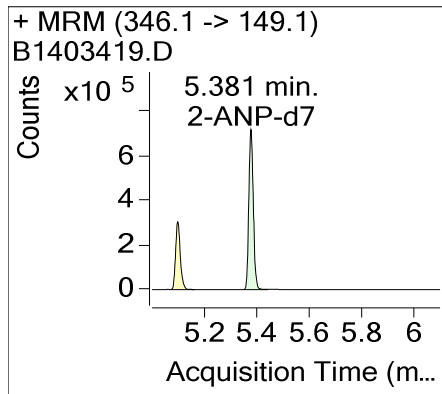


## Quantitation Results

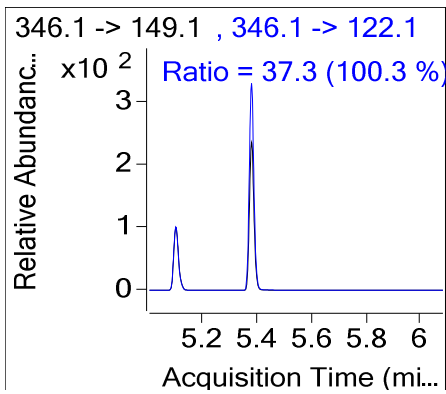
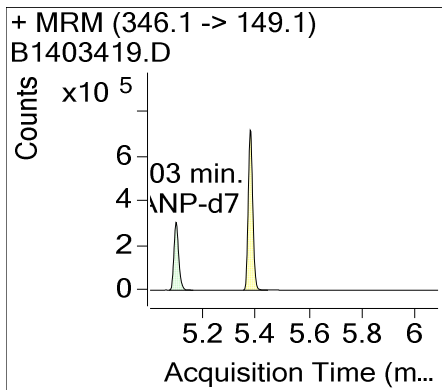
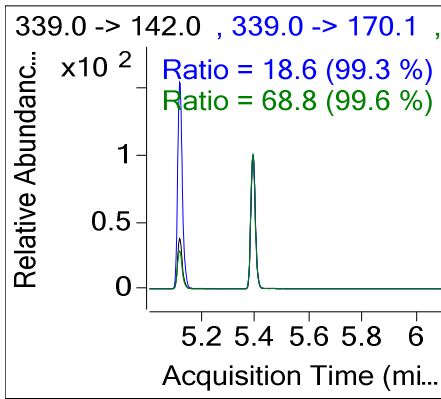
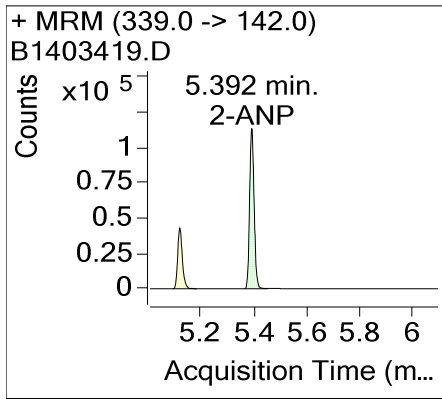
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.119	92.7506	102.71
2-ANP	2-ANP-d7	5.392	93.0993	103.33
4-ABP	4-ABP-d9	6.288	9.1293	101.44

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



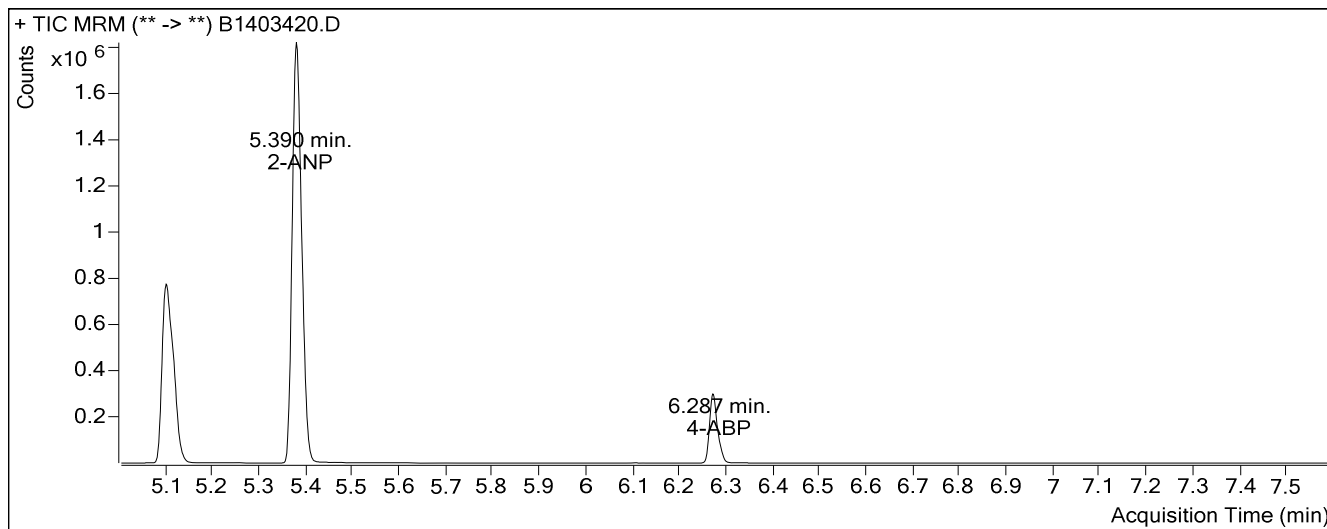
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 12:23 **Data File** B1403420.D  
**Position** 55 **Sample Name** ArAm Std 4  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Calibration **Comment** TSCStd-0096-12

## Sample Chromatogram



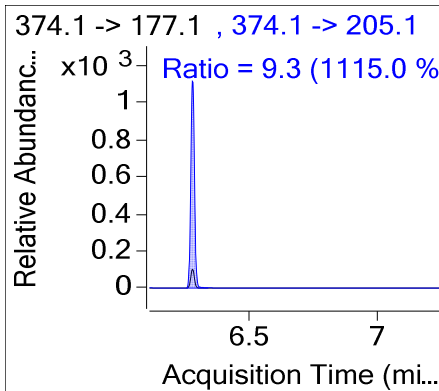
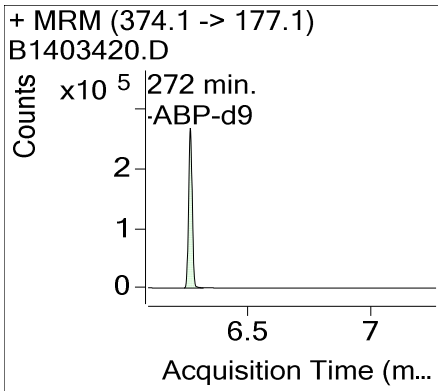
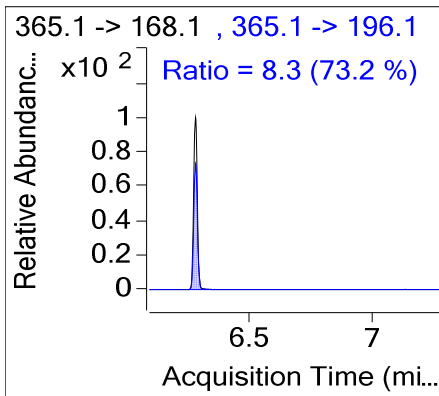
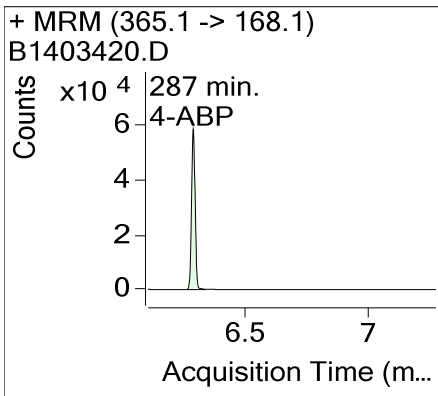
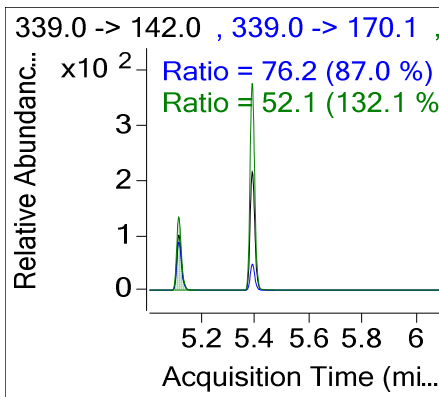
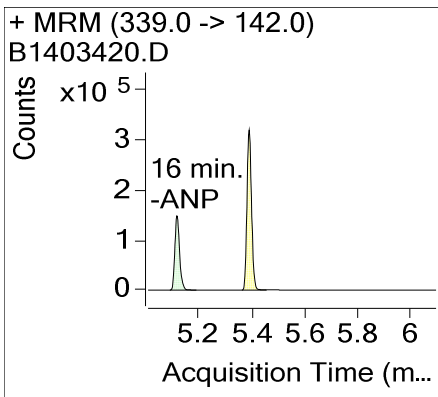
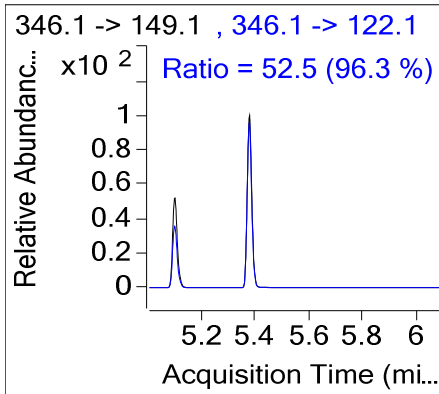
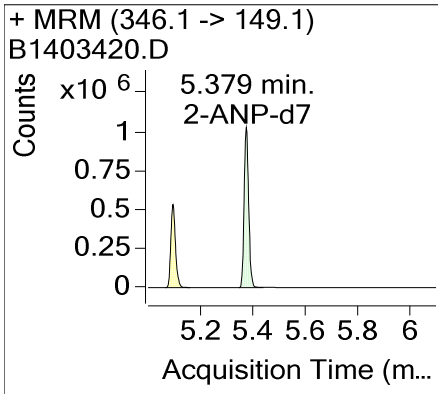
## Quantitation Results

Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.116	189.2212	104.54
2-ANP	2-ANP-d7	5.390	187.5382	104.19
4-ABP	4-ABP-d9	6.287	18.9359	105.20

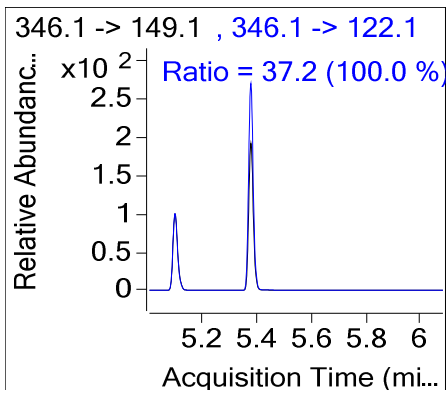
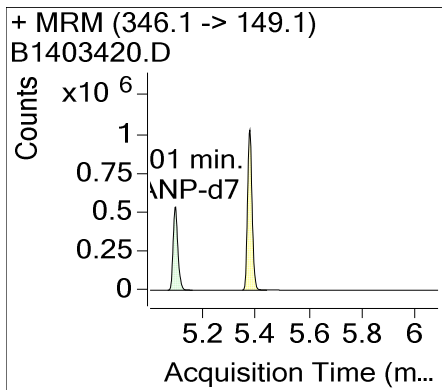
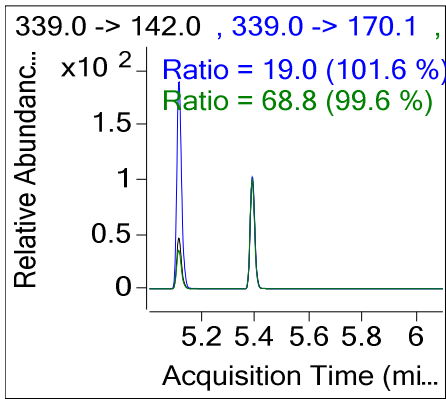
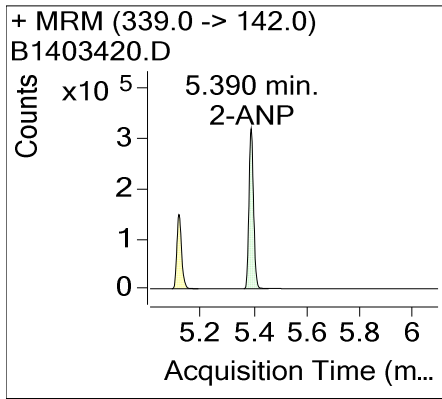


# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



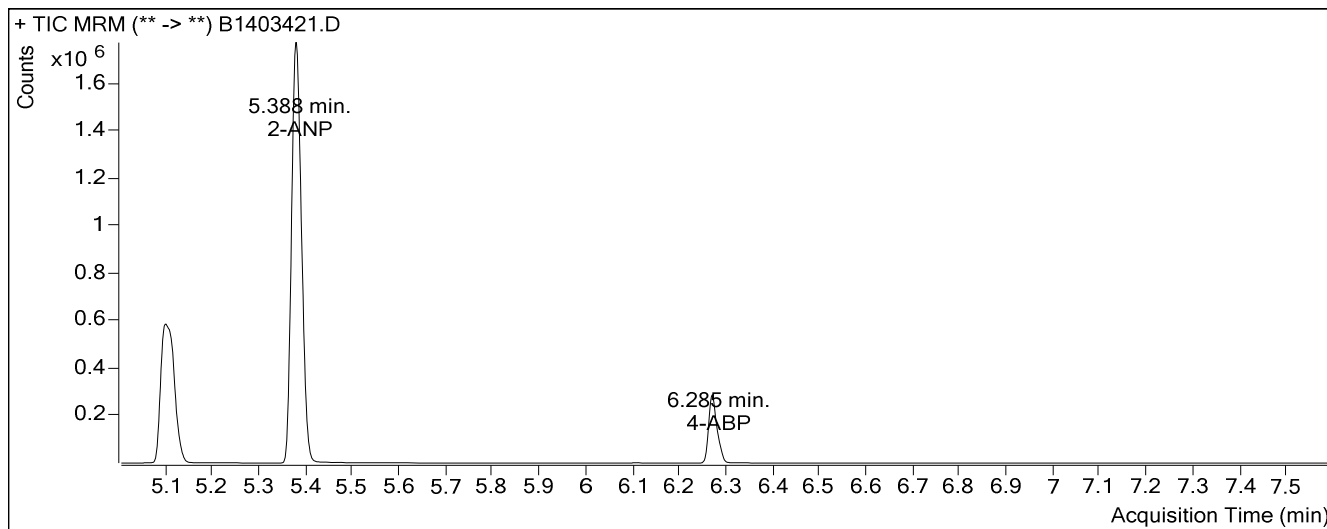
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 12:34 **Data File** B1403421.D  
**Position** 56 **Sample Name** ArAm Std 5  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Calibration **Comment** TSCStd-0096-13

## Sample Chromatogram

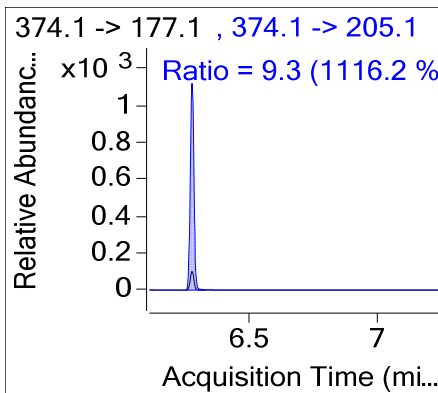
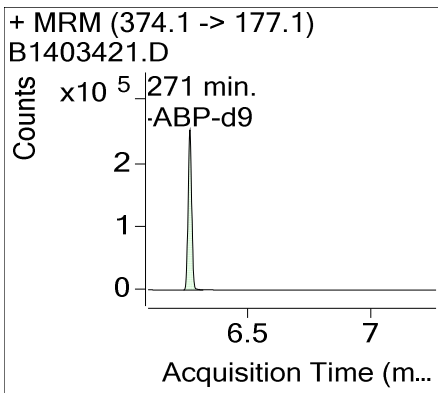
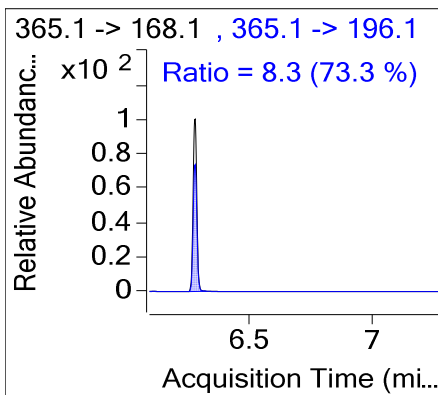
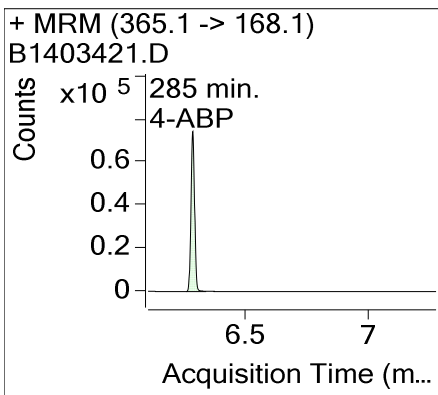
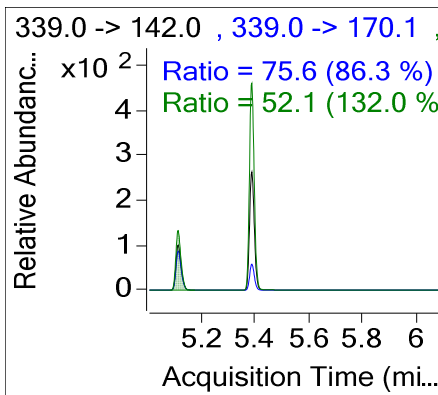
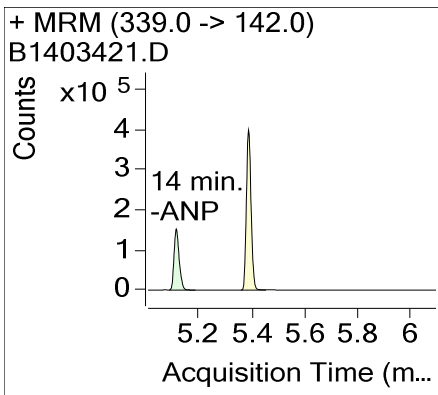
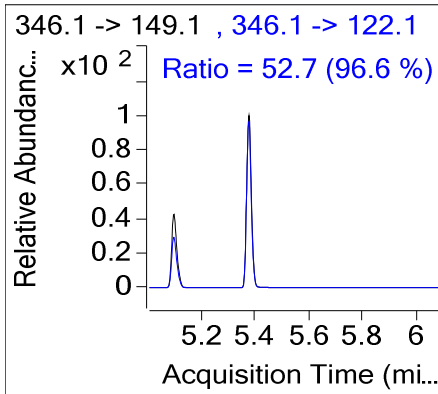
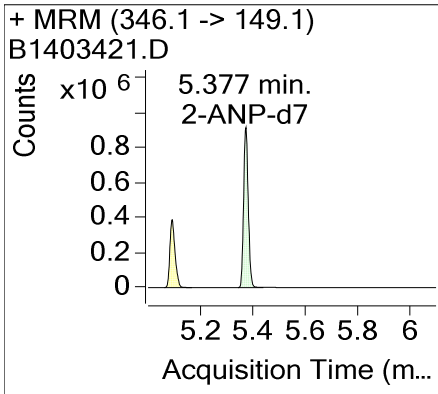


## Quantitation Results

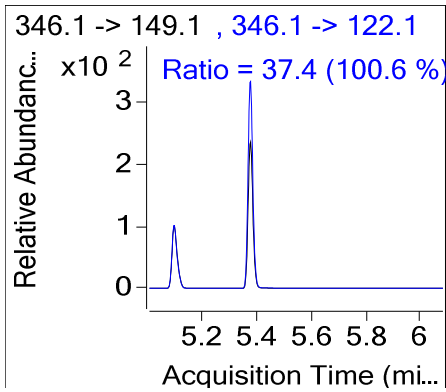
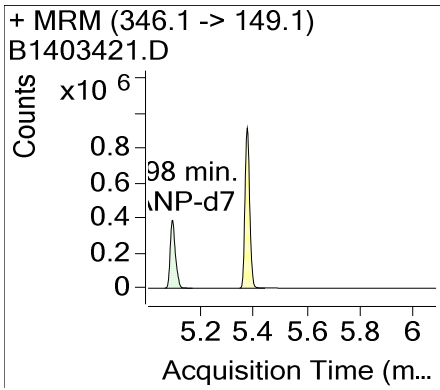
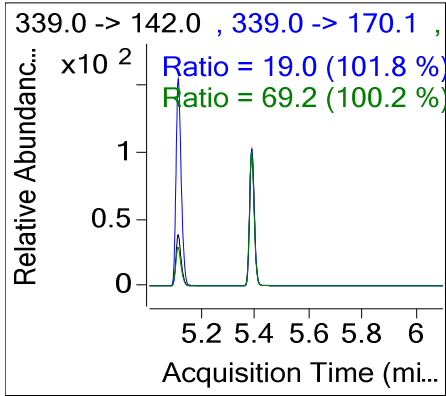
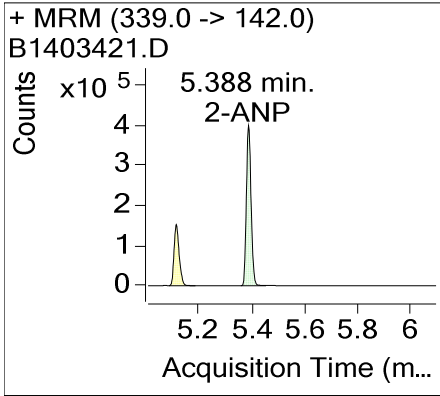
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.114	260.6382	96.18
2-ANP	2-ANP-d7	5.388	259.7993	96.22
4-ABP	4-ABP-d9	6.285	25.9598	96.15

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



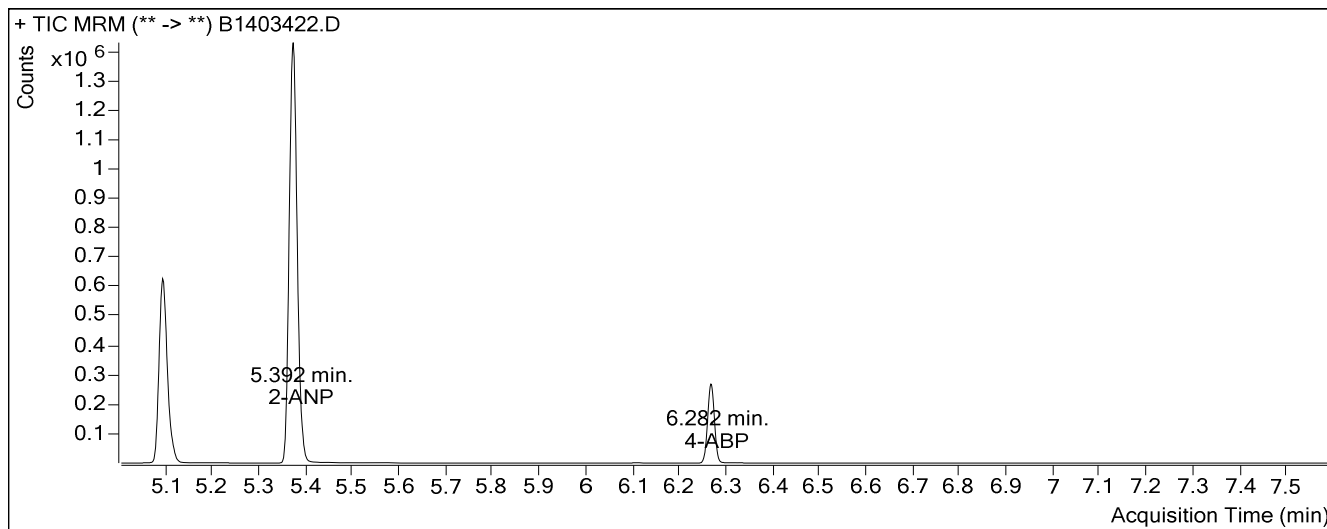
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 12:46 **Data File** B1403422.D  
**Position** 58 **Sample Name** ArAm ISTD blk  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Blank **Comment** TSCStd-0096-15

## Sample Chromatogram

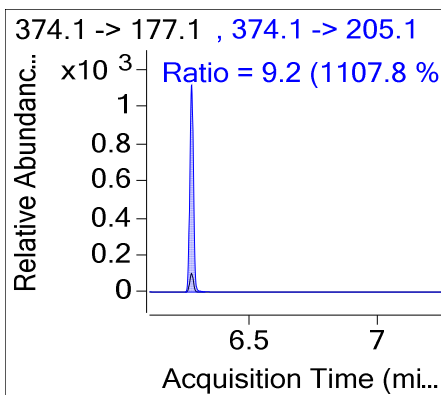
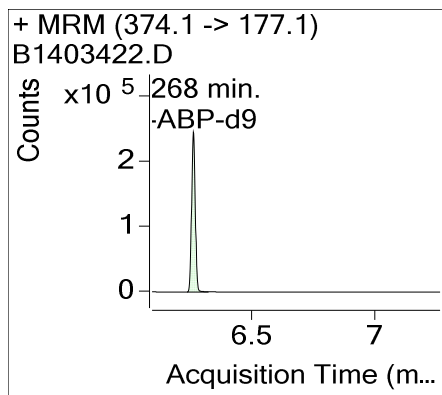
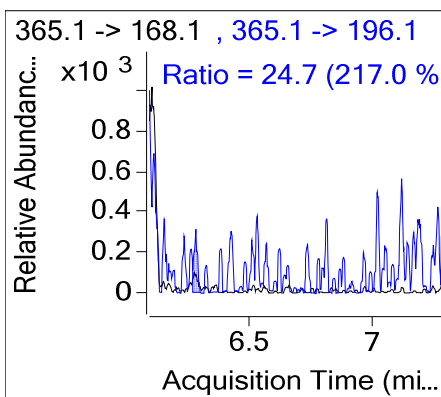
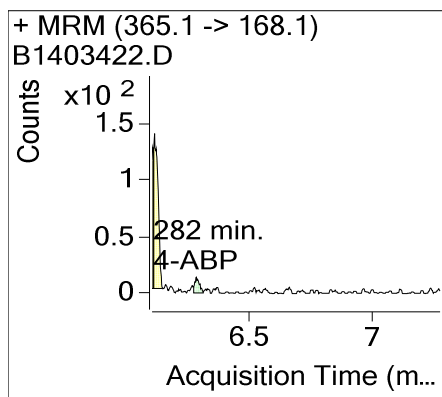
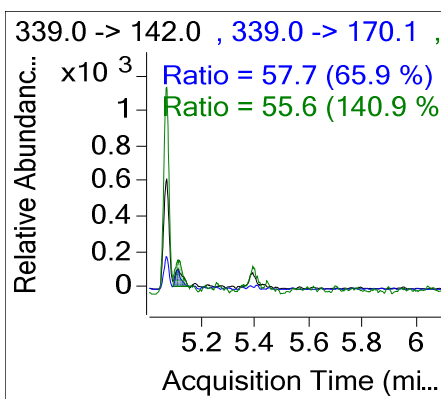
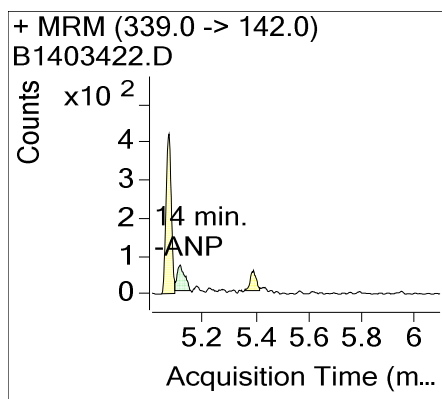
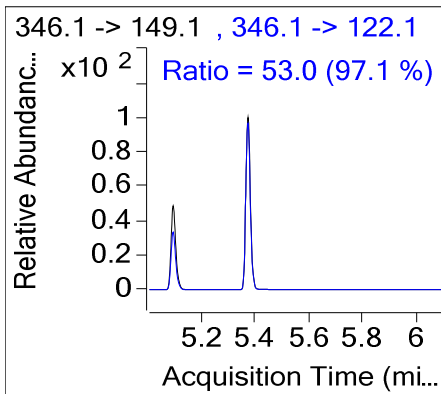
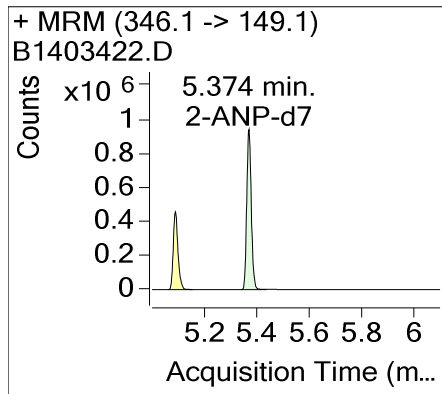


## Quantitation Results

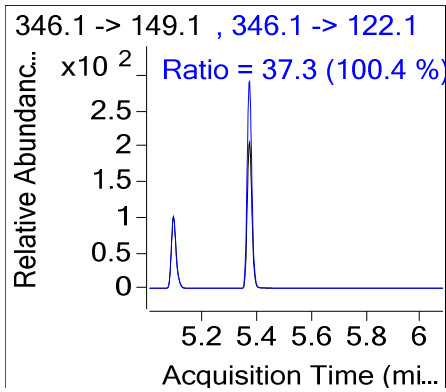
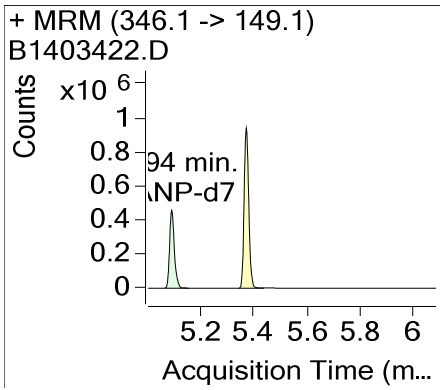
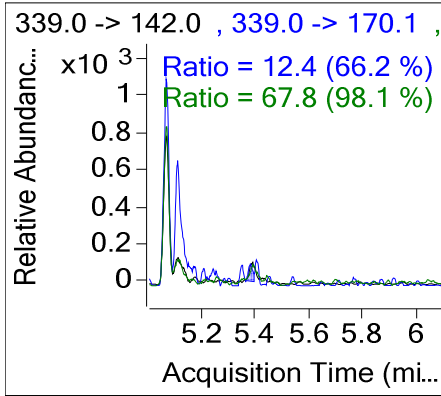
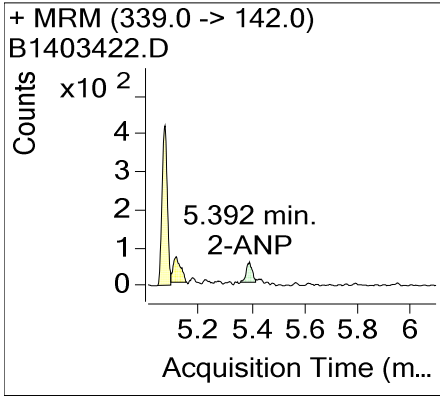
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.114	0.0000	
2-ANP	2-ANP-d7	5.392	0.0000	
4-ABP	4-ABP-d9	6.282	0.0000	

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report





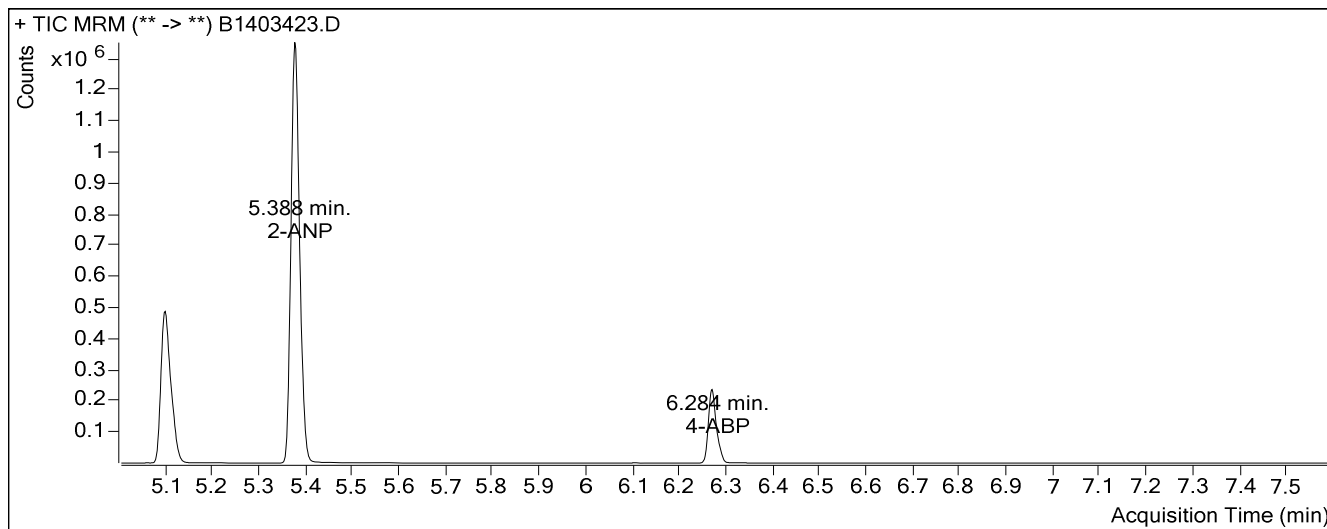
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 12:58 **Data File** B1403423.D  
**Position** 59 **Sample Name** ArAm SS Std  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** QC **Comment** TSCStd-0096-16

## Sample Chromatogram

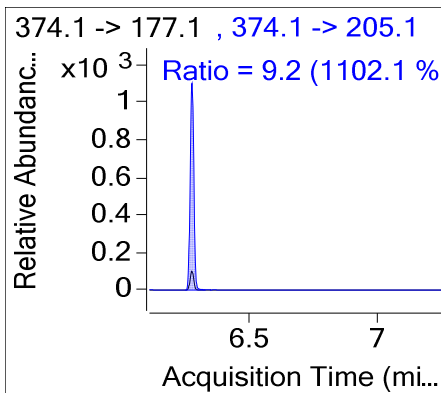
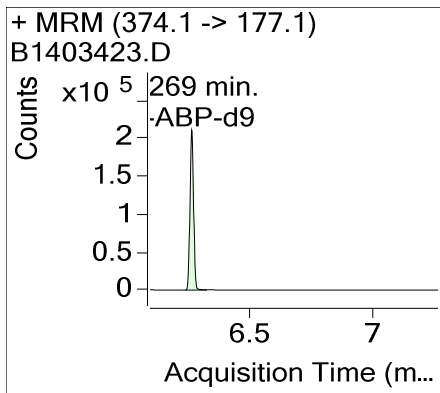
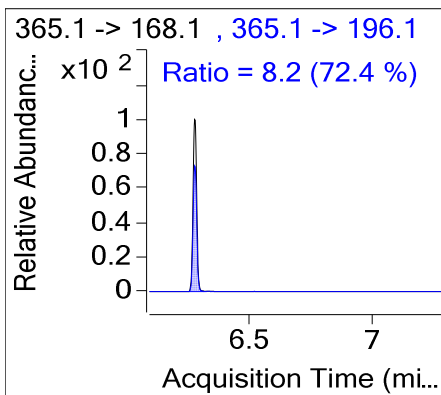
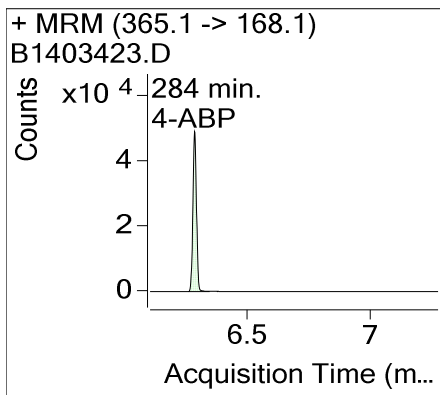
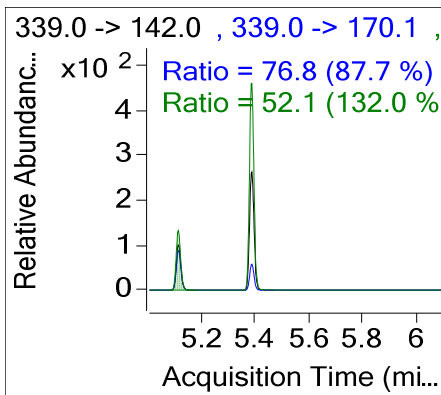
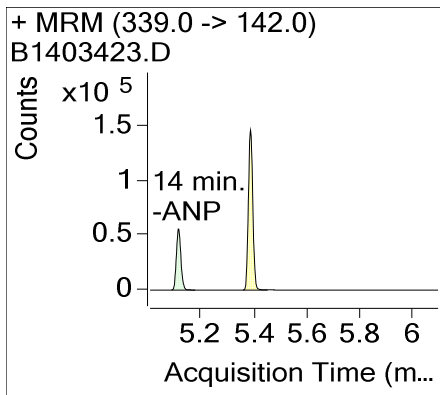
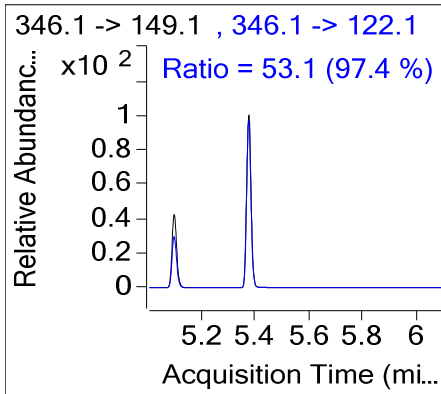
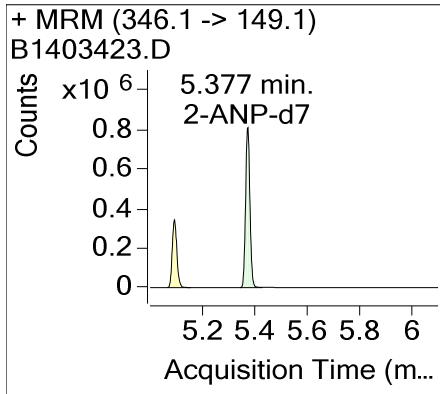


## Quantitation Results

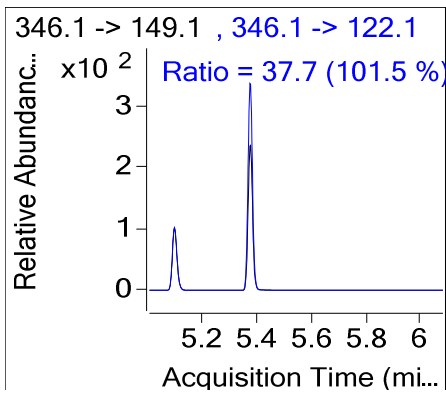
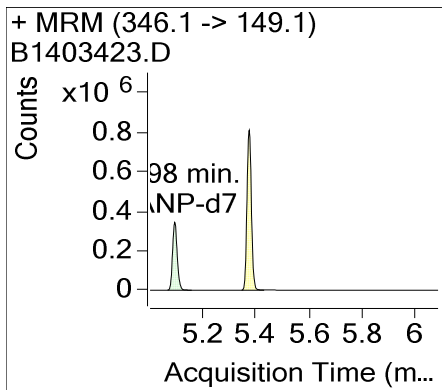
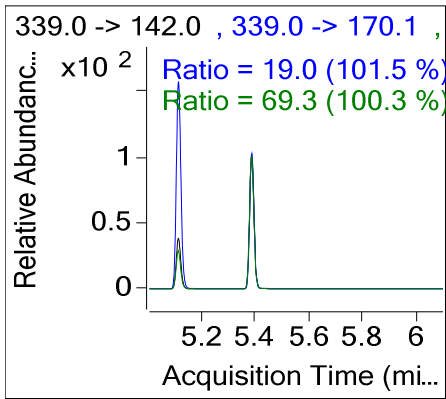
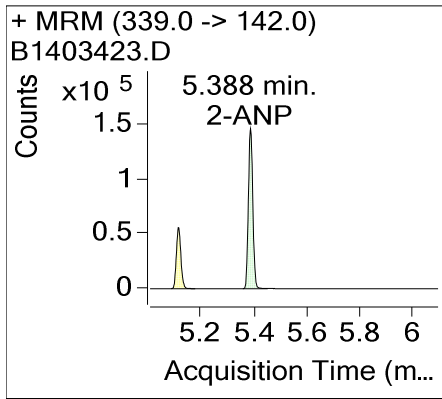
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.114	106.7694	94.49
2-ANP	2-ANP-d7	5.388	107.3112	94.97
4-ABP	4-ABP-d9	6.284	20.1772	89.68

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



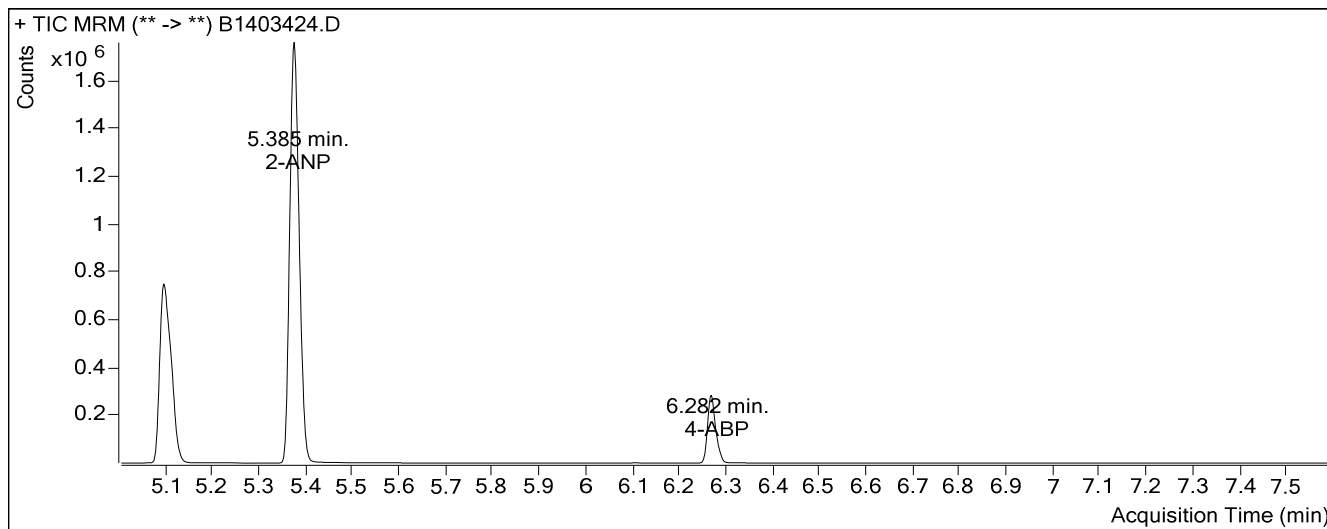
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-12 13:10 **Data File** B1403424.D  
**Position** 55 **Sample Name** Concal (ArAm Std 4)  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** QC **Comment** TSCStd-0096-12

## Sample Chromatogram

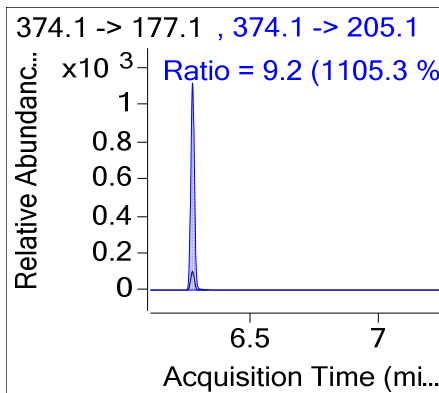
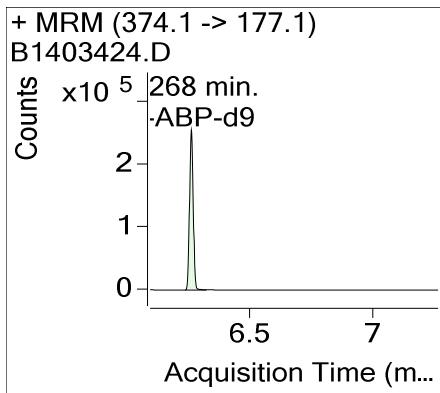
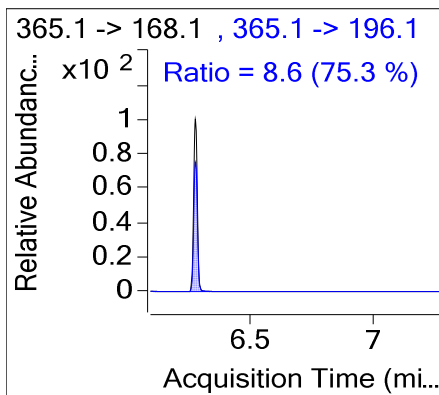
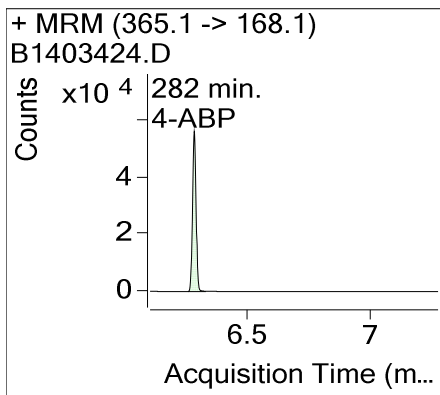
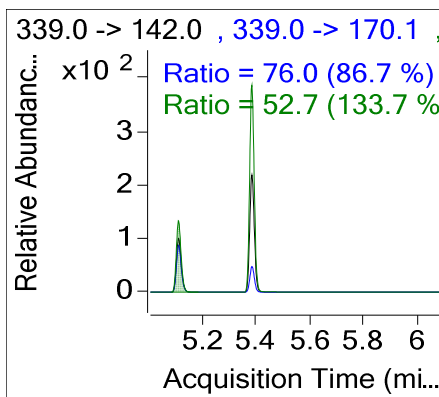
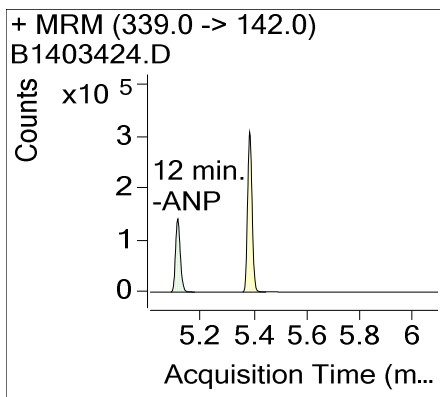
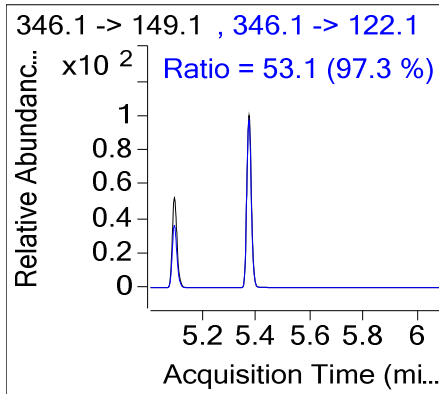
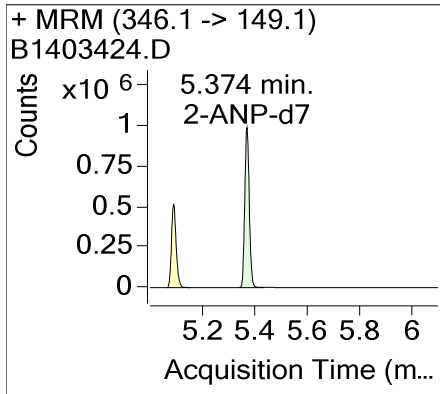


## Quantitation Results

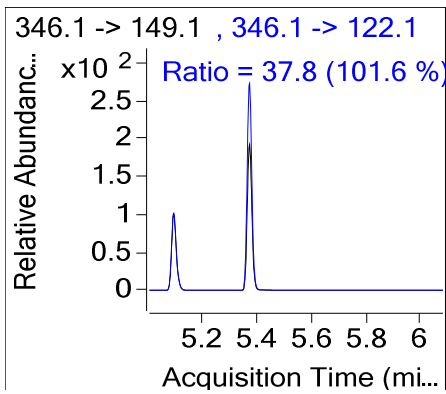
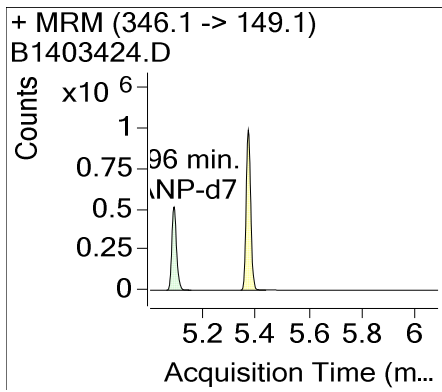
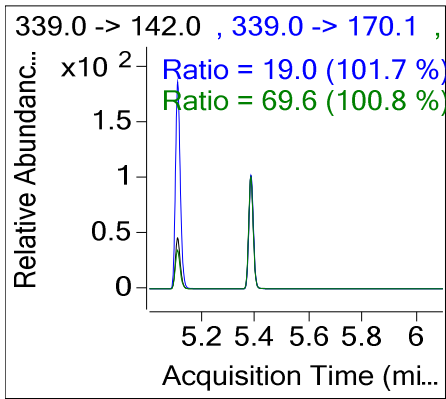
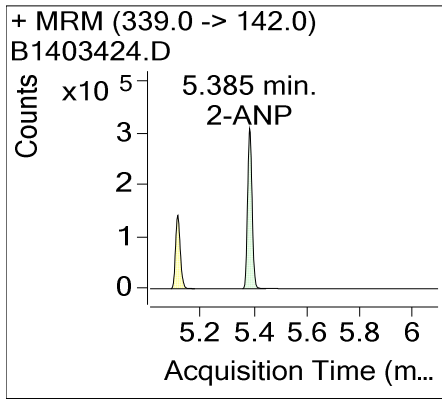
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.112	187.2456	103.45
2-ANP	2-ANP-d7	5.385	185.4776	103.04
4-ABP	4-ABP-d9	6.282	18.6656	103.70

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



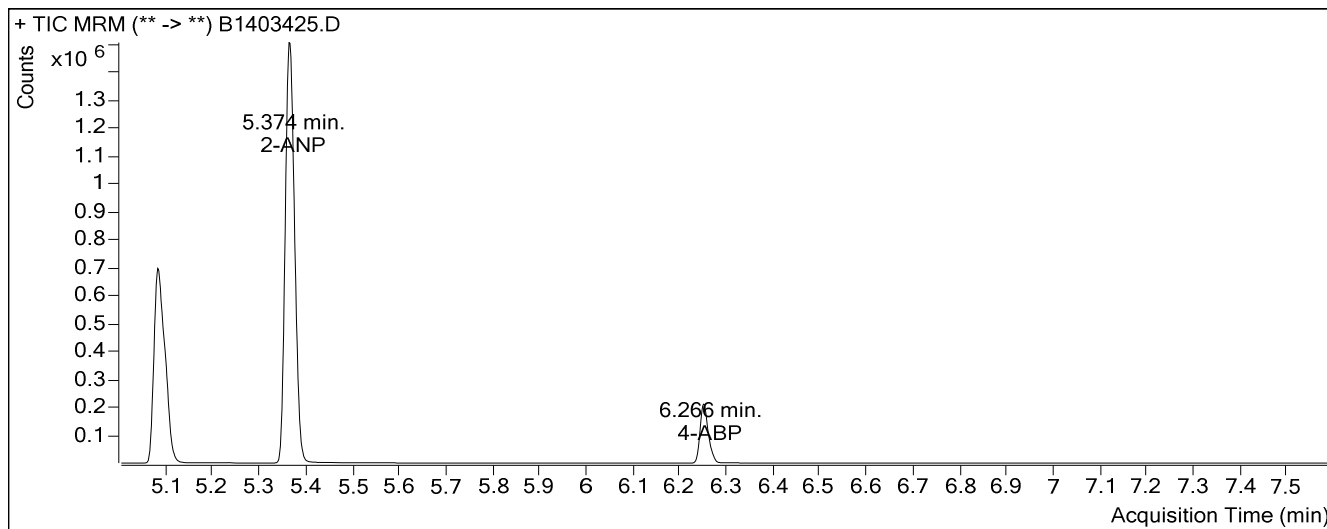
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-15 10:14 **Data File** B1403425.D  
**Position** 55 **Sample Name** Concal (ArAm Std 4)  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** QC **Comment** TSCStd-0096-12

## Sample Chromatogram

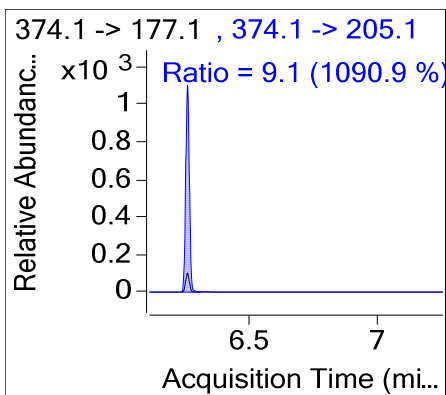
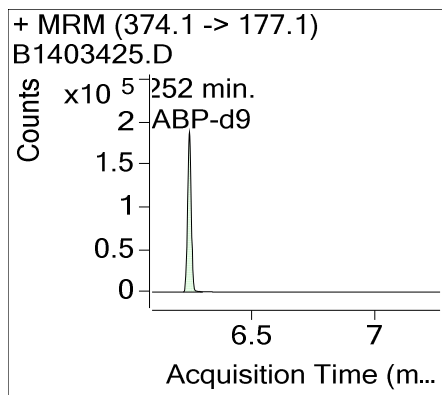
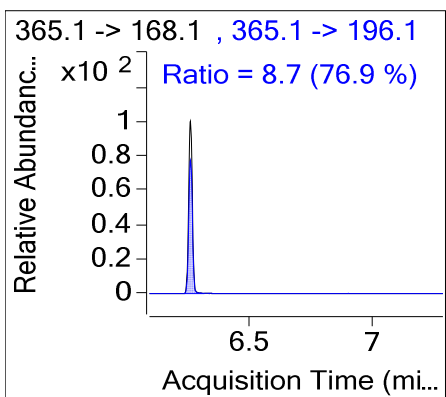
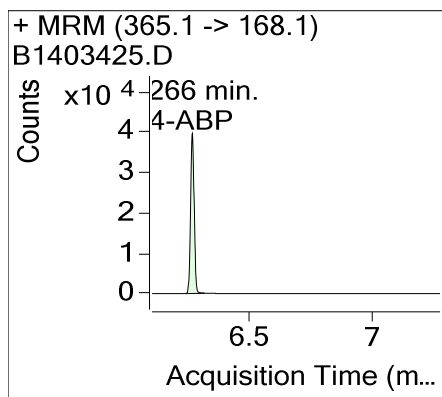
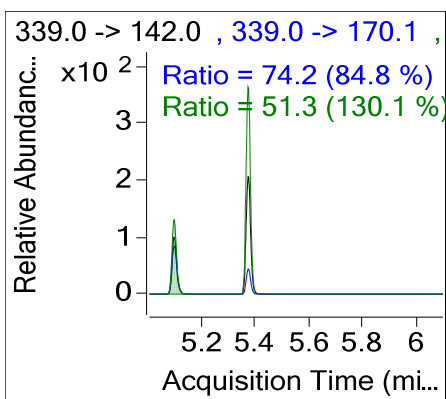
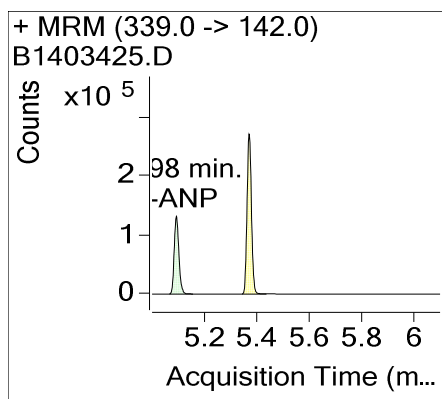
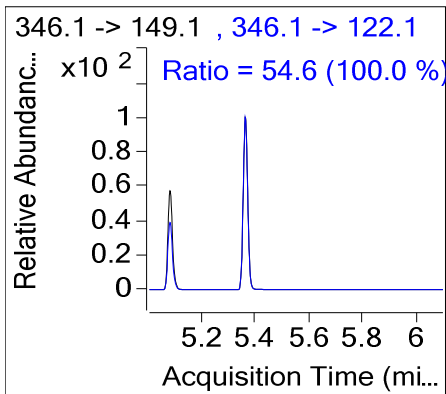
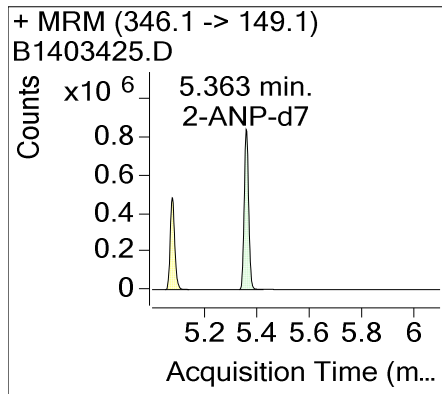


## Quantitation Results

Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.098	189.4051	104.64
2-ANP	2-ANP-d7	5.374	189.8260	105.46
4-ABP	4-ABP-d9	6.266	18.2316	101.29

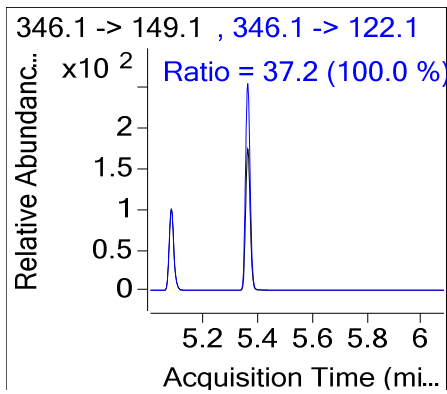
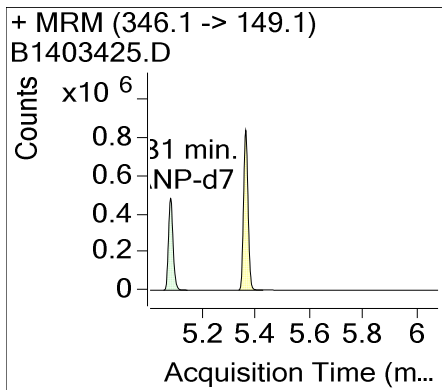
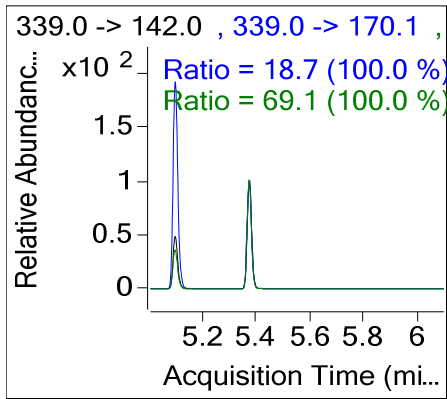
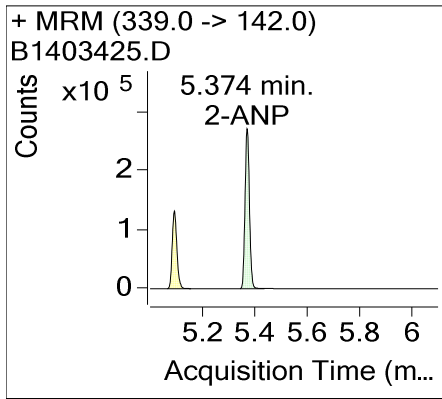
# Quantitative Analysis Sample Report

## Compound Graphics





# Quantitative Analysis Sample Report



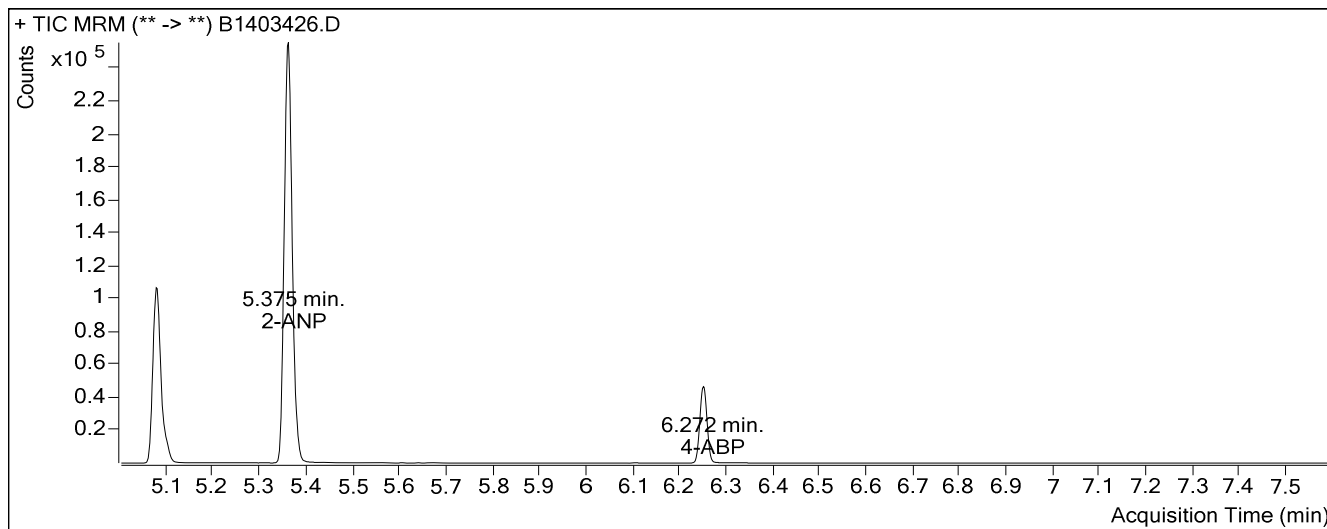
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-15 14:08 **Data File** B1403426.D  
**Position** 62 **Sample Name** 0814-52-01  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Sample **Comment** TSCPrep p601

## Sample Chromatogram

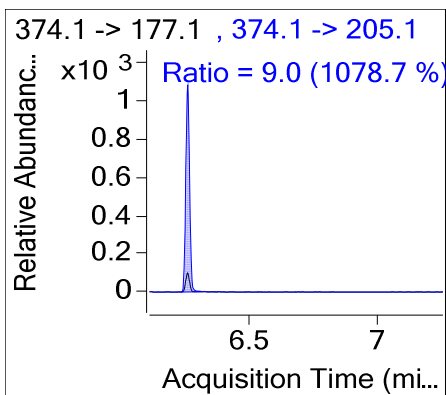
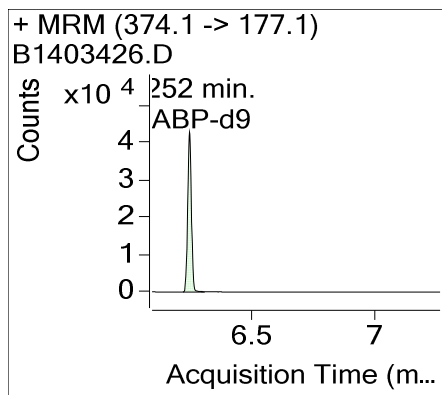
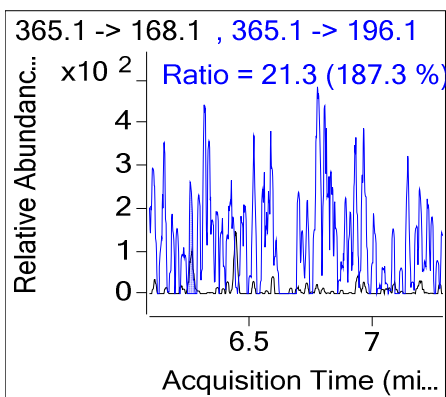
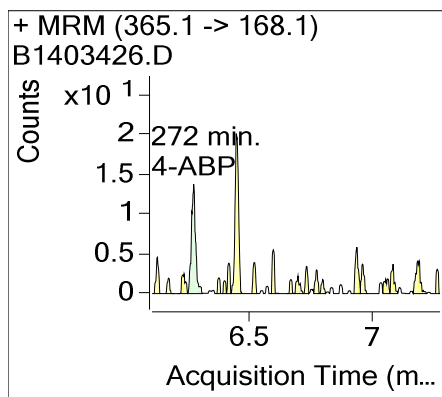
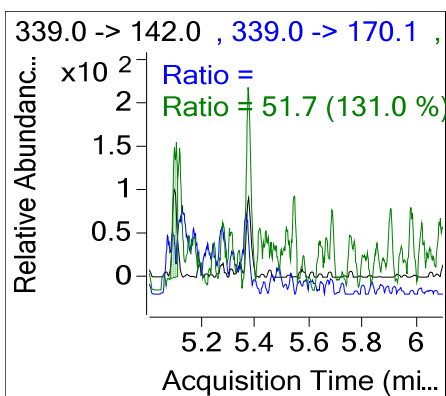
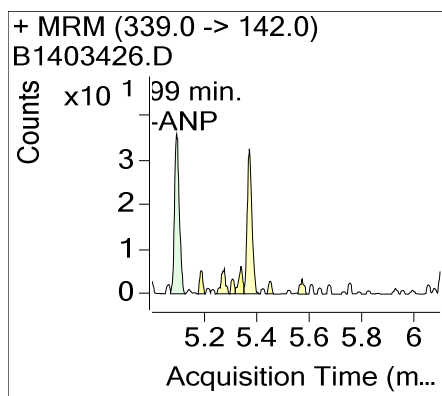
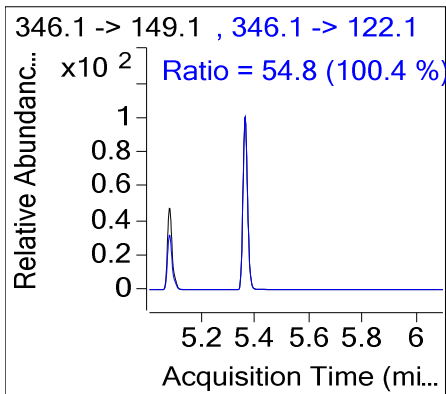
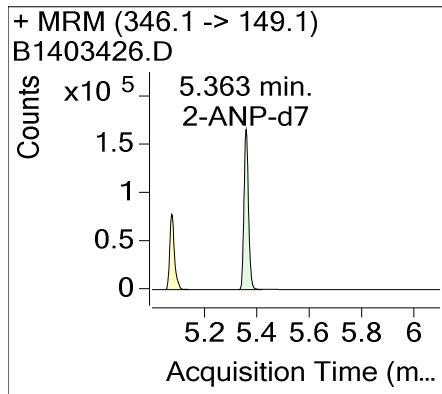


## Quantitation Results

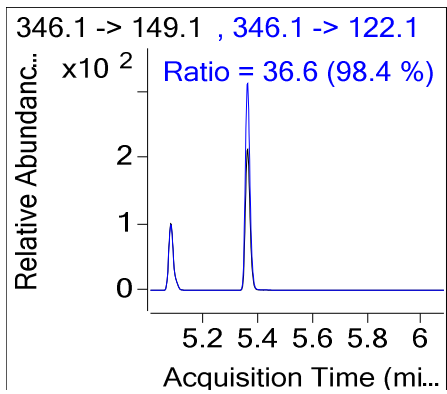
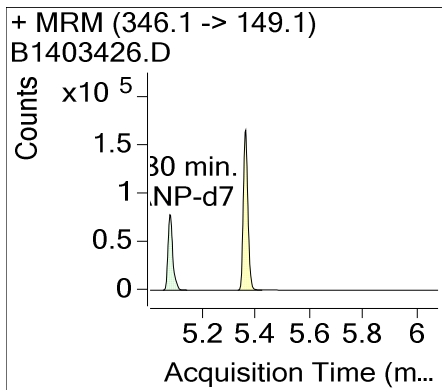
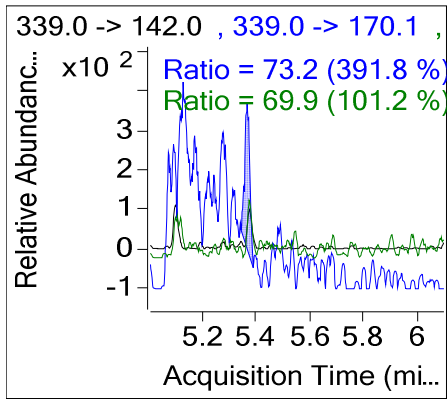
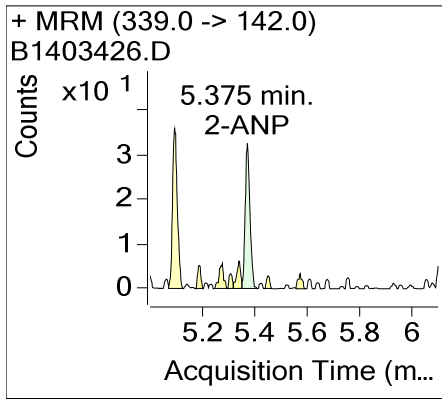
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.099	0.0000	
2-ANP	2-ANP-d7	5.375	0.0000	
4-ABP	4-ABP-d9	6.272	0.0000	

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



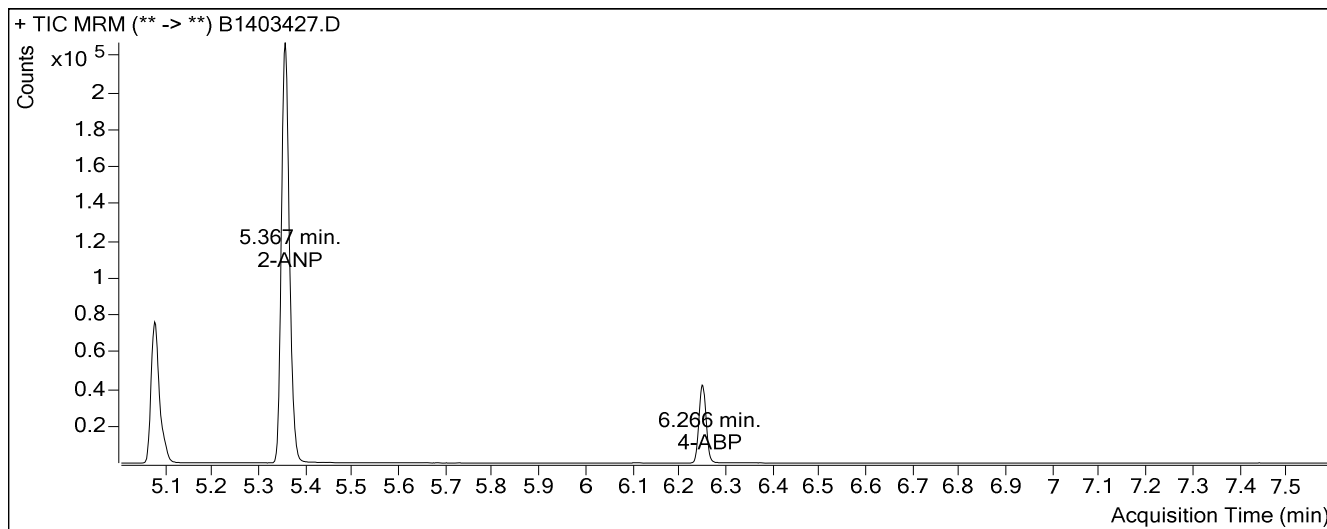
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-15 14:20 **Data File** B1403427.D  
**Position** 63 **Sample Name** 0814-52-01MS  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** QC **Comment** TSCPrep p601

## Sample Chromatogram

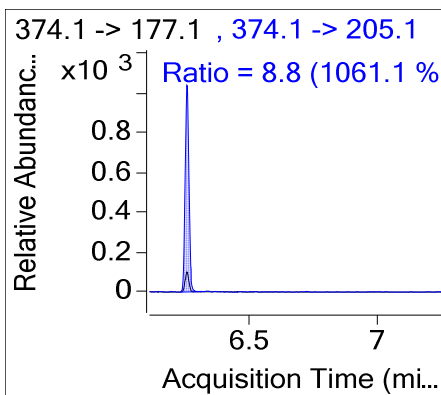
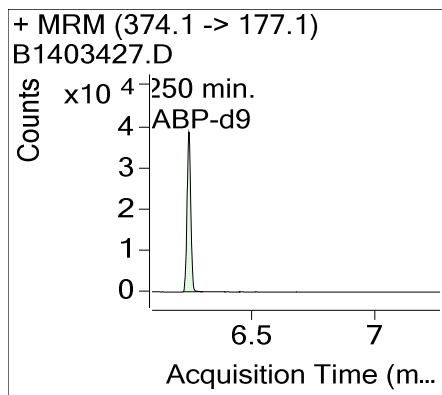
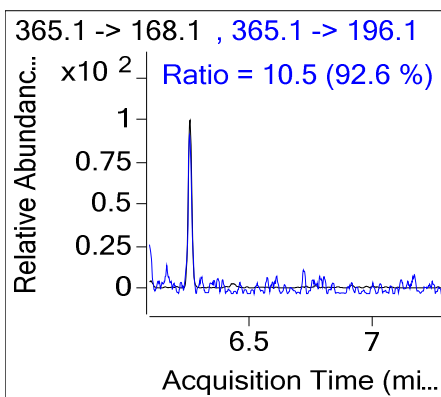
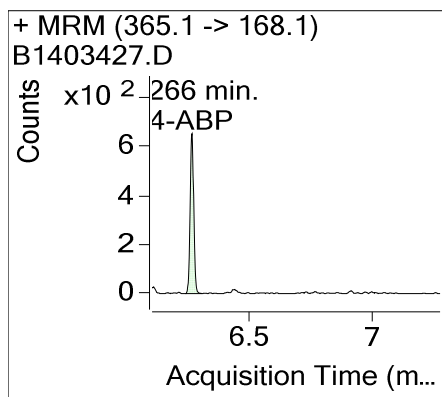
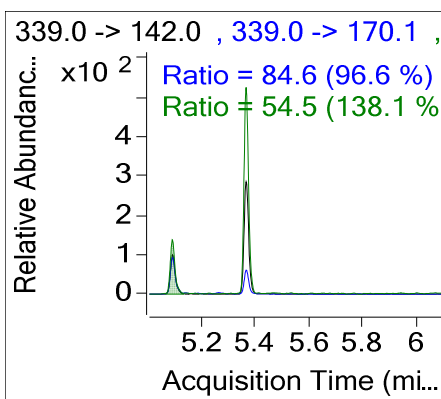
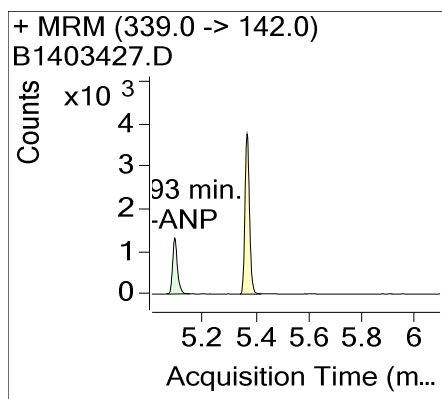
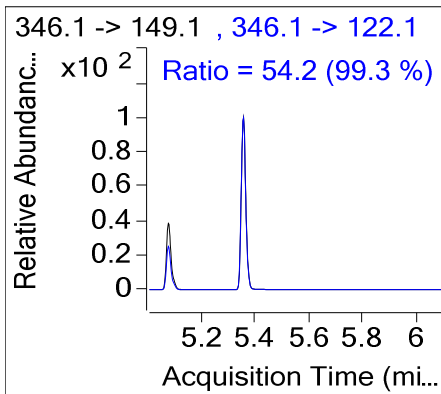
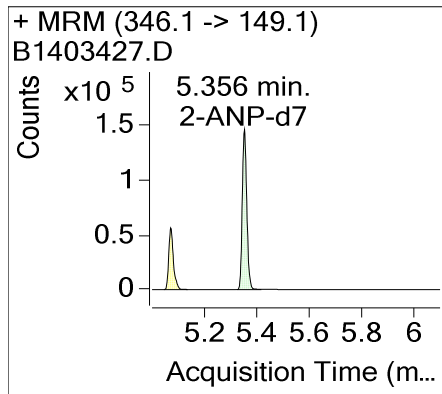


## Quantitation Results

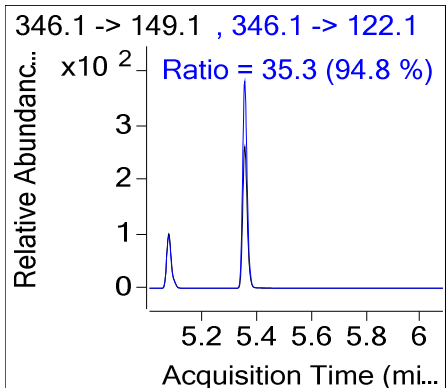
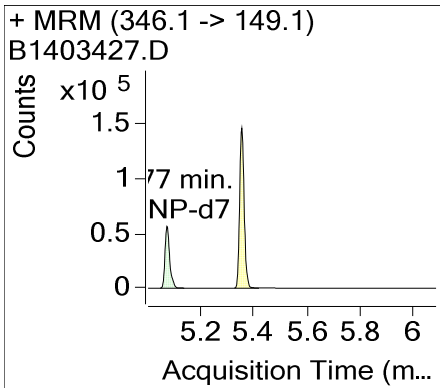
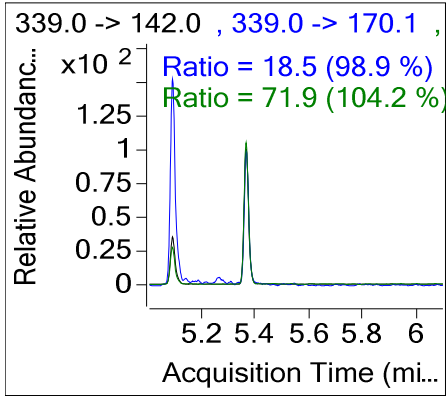
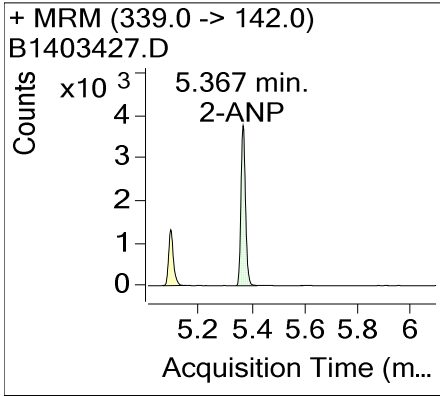
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.093	15.6571	104.38
2-ANP	2-ANP-d7	5.367	15.0668	100.45
4-ABP	4-ABP-d9	6.266	1.3210	88.07

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



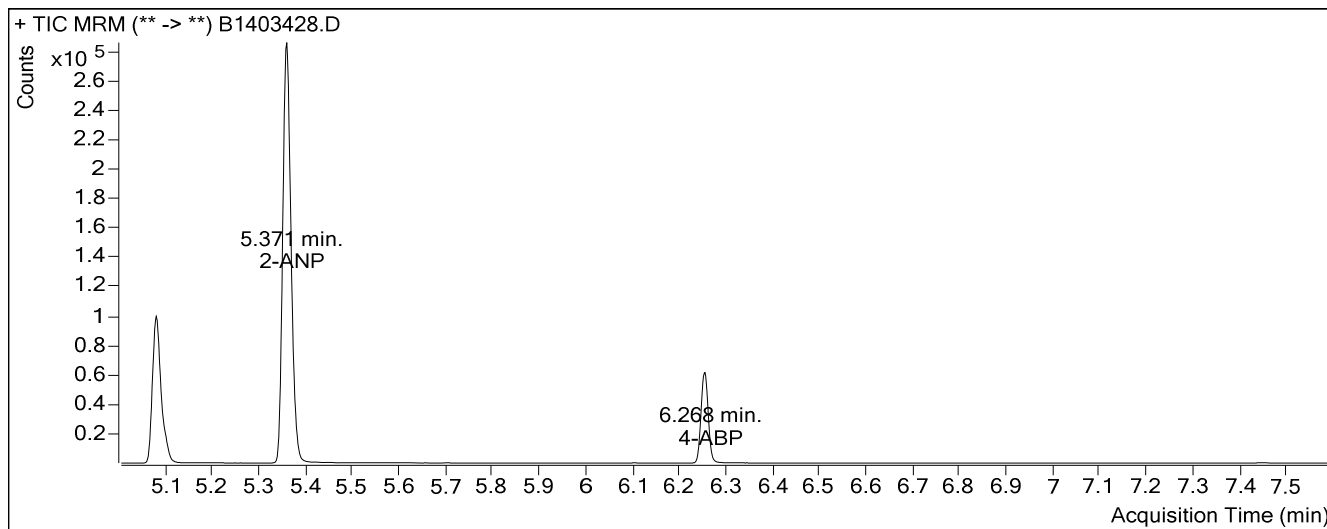
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-15 14:32 **Data File** B1403428.D  
**Position** 64 **Sample Name** 0814-52 LCS-01  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** QC **Comment** TSCPrep p601

## Sample Chromatogram



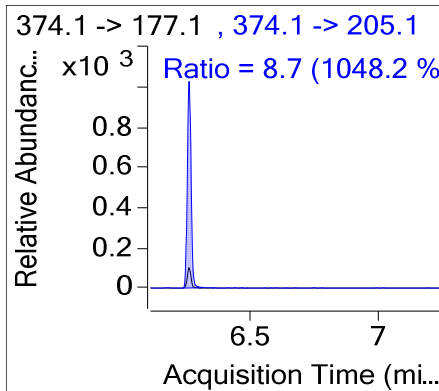
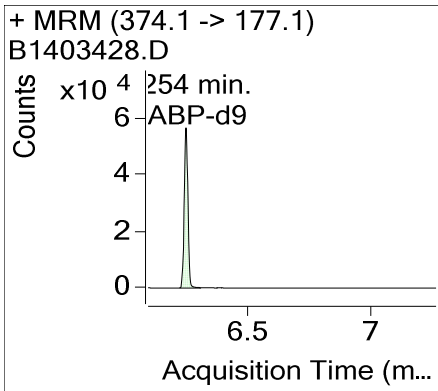
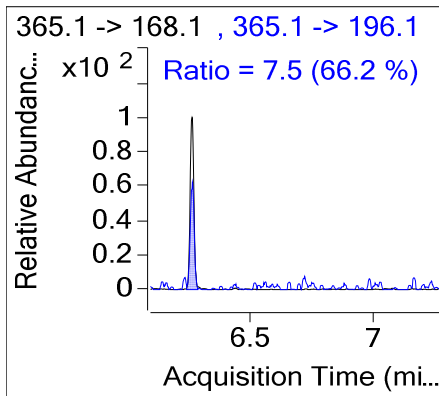
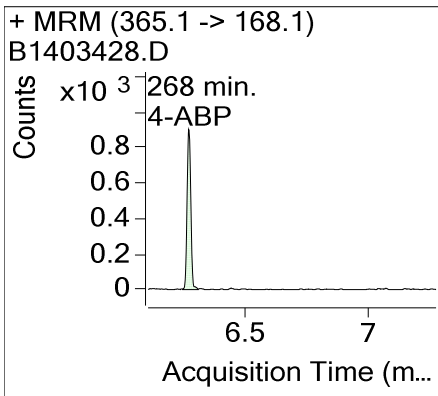
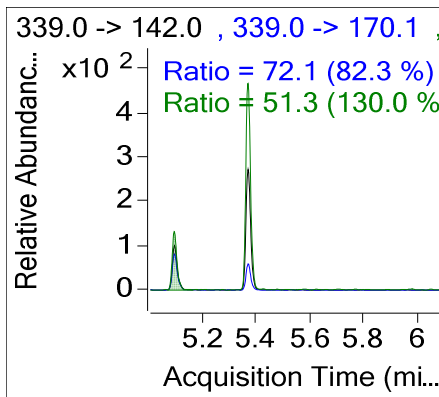
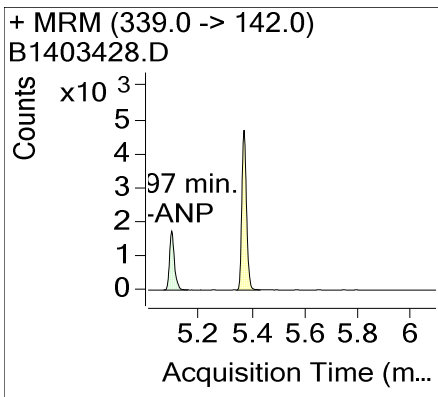
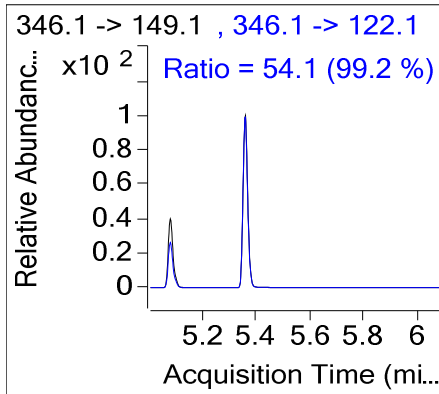
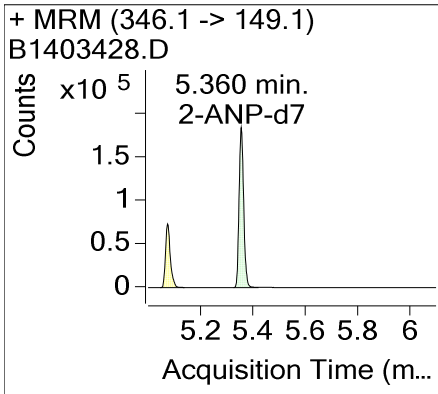
## Quantitation Results

Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.097	15.5241	103.49
2-ANP	2-ANP-d7	5.371	14.9423	99.62
4-ABP	4-ABP-d9	6.268	1.2713	84.76

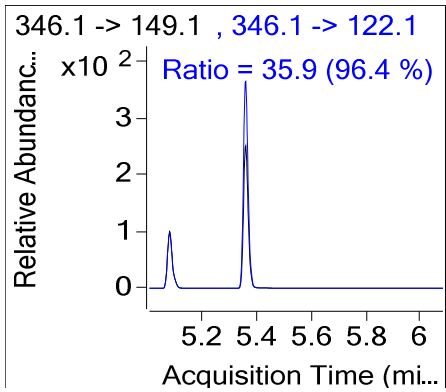
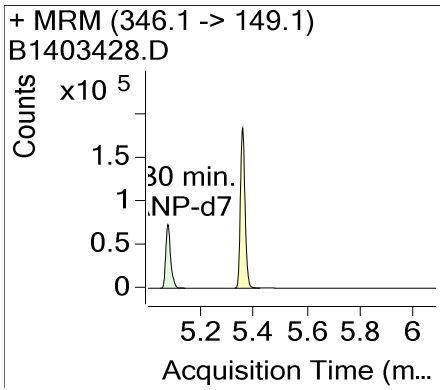
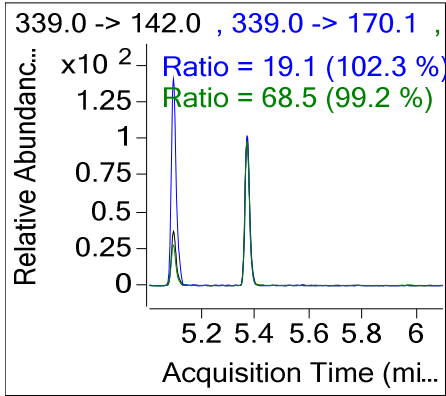
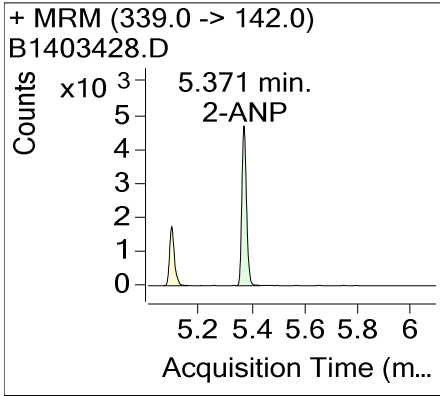


# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



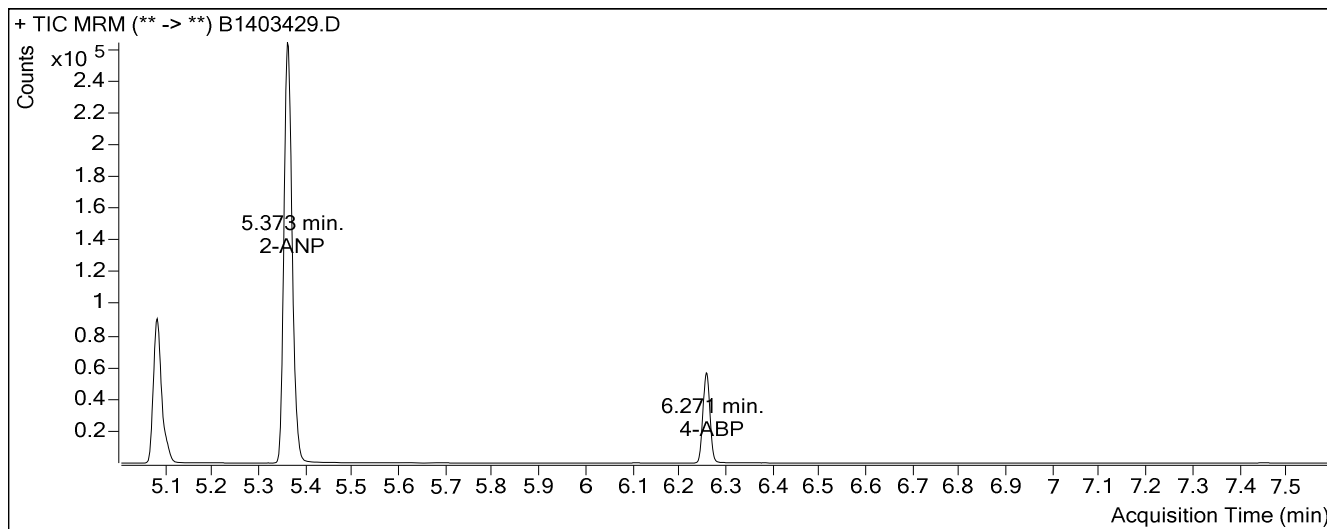
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-15 14:43 **Data File** B1403429.D  
**Position** 65 **Sample Name** 0814-52 ArAm Blk-01  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** Sample **Comment** TSCPrep p601

## Sample Chromatogram

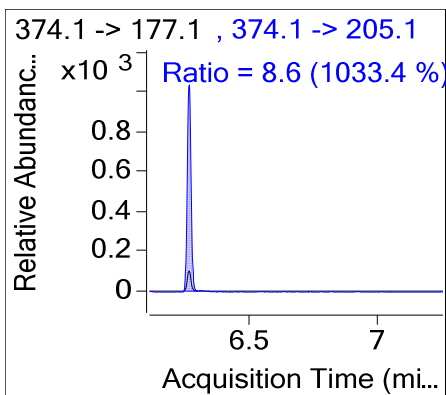
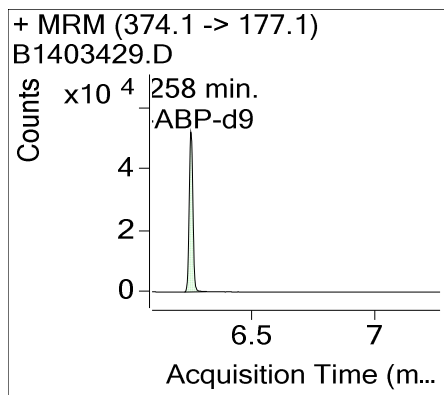
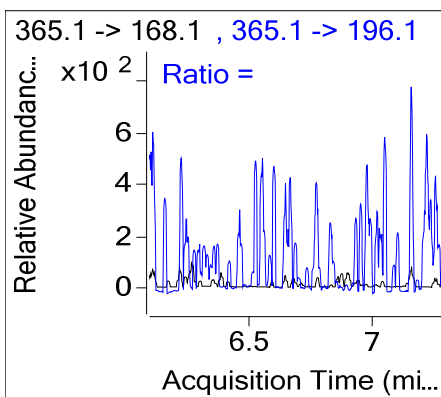
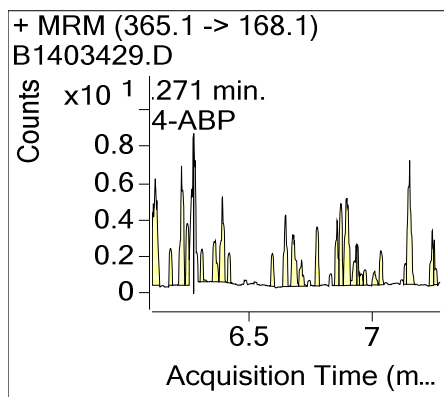
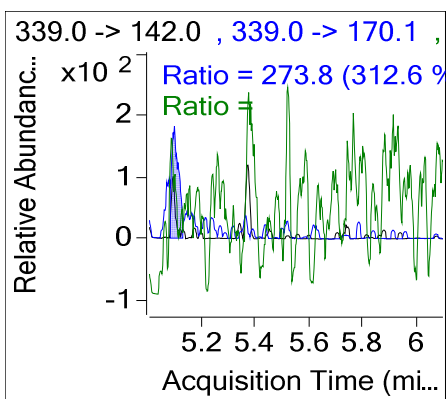
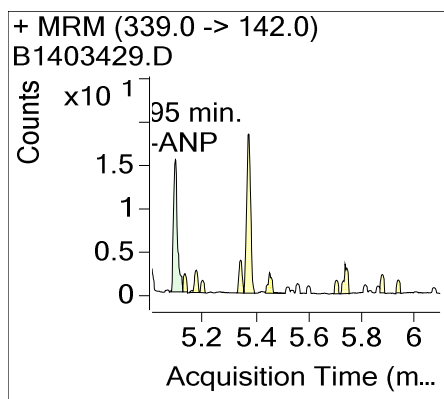
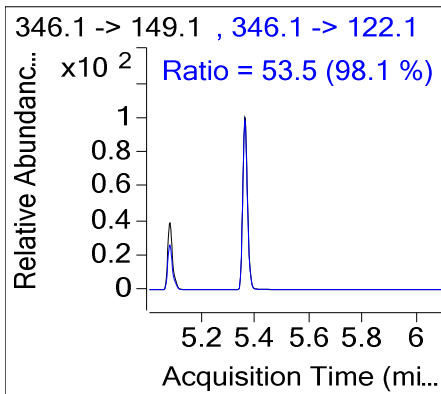
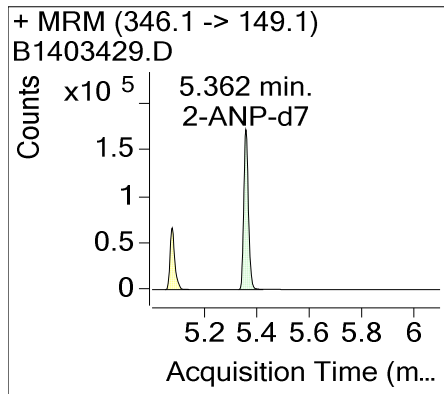


## Quantitation Results

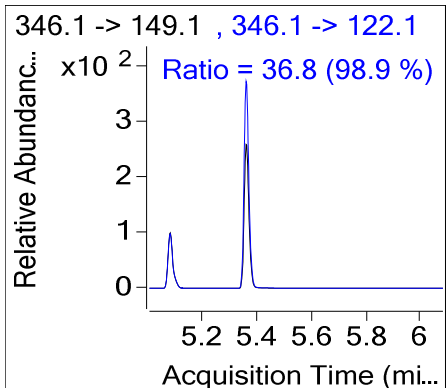
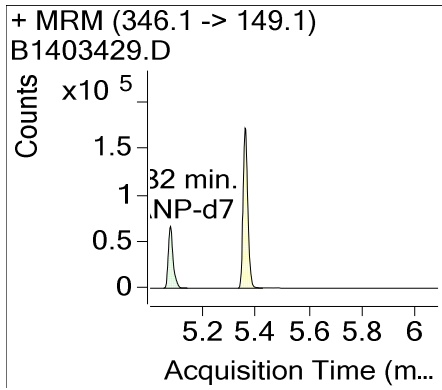
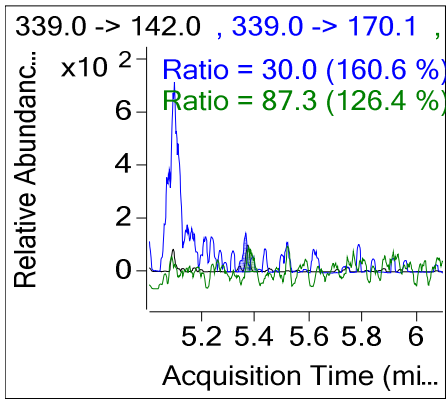
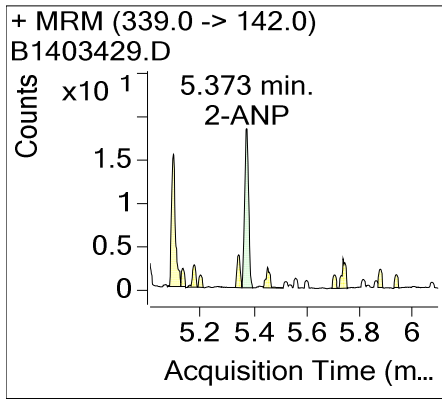
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.095	0.0000	
2-ANP	2-ANP-d7	5.373	0.0000	
4-ABP	4-ABP-d9	6.271	0.0000	

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report



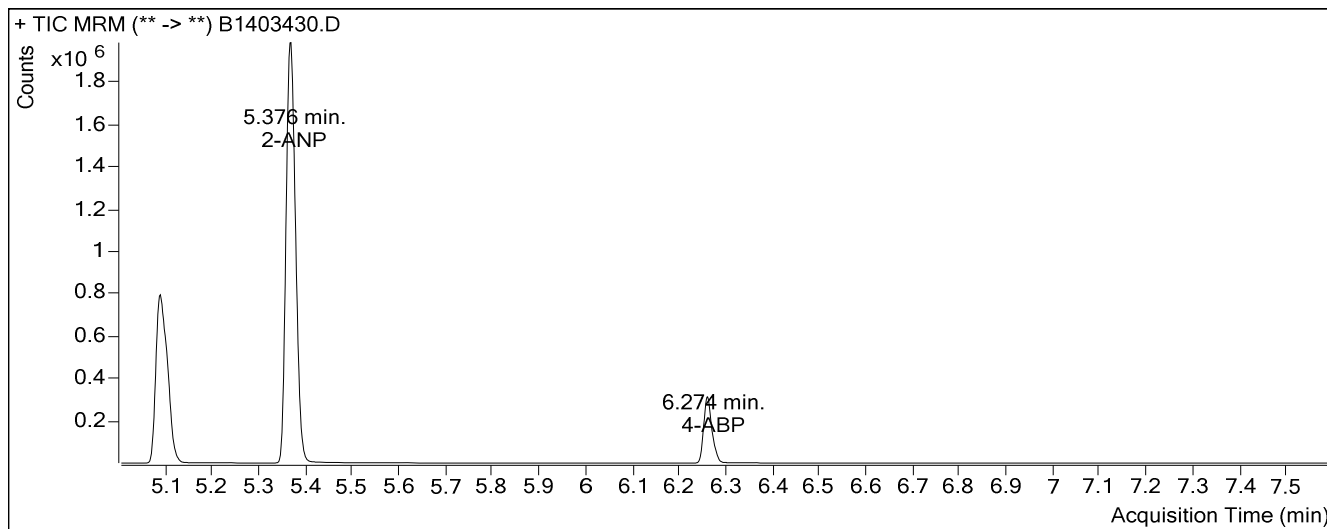
# Quantitative Analysis Sample Report

**Batch Data Path** D:\Data\MS2014Q3\Bender\data\sep14\Bender p0046\QuantResults\Bender p0046 0814-52 ArAm e  
**Analysis Time** 9/16/2014 11:28 AM **Analyst Name** EAINC\SBrown  
**Report Time** 9/16/2014 11:29 AM **Reporter Name** EAINC\SBrown  
**Last Calib Update** 9/16/2014 11:28 AM **Batch State** Processed

## Analysis Info

**Acq Time** 2014-09-15 14:55 **Data File** B1403430.D  
**Position** 55 **Sample Name** Concal (ArAm Std 4)  
**Dilution** 1 **Sample Info**  
**Inj Vol** 1 **Acq Method File** ArAm-Val05-ANP\_4ABP-PSL230  
**Sample Type** QC **Comment** TSCStd-0096-12

## Sample Chromatogram

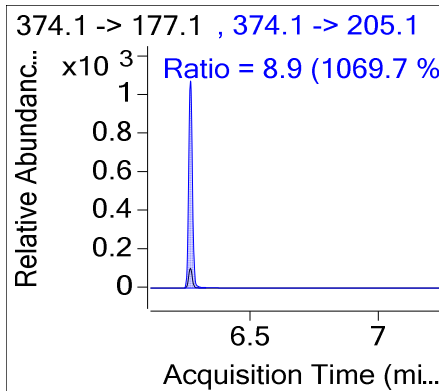
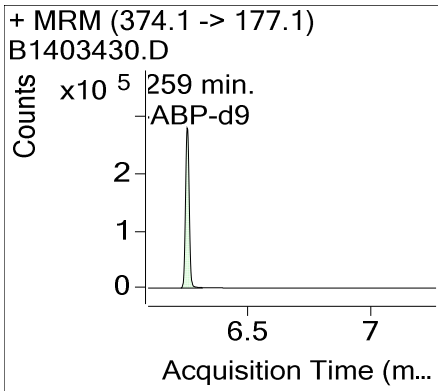
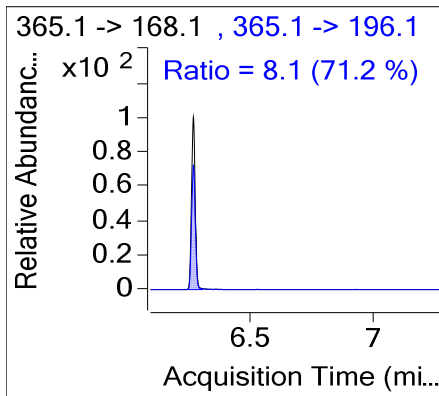
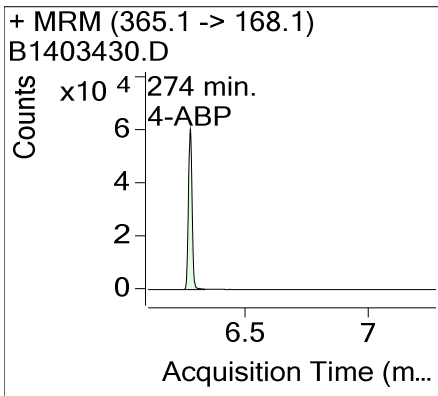
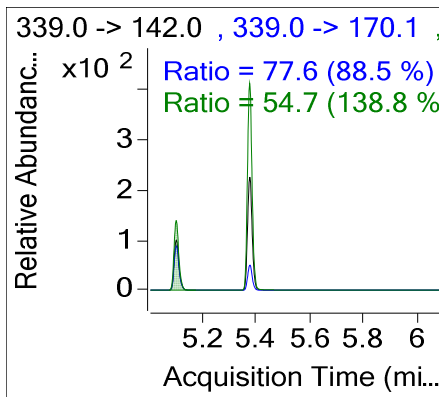
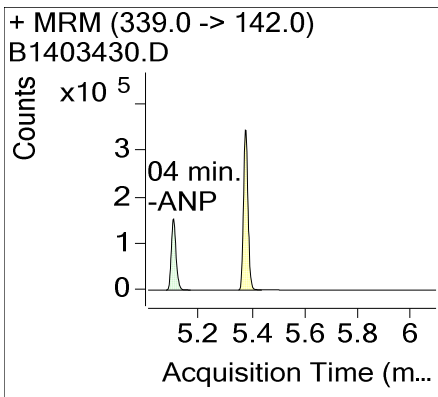
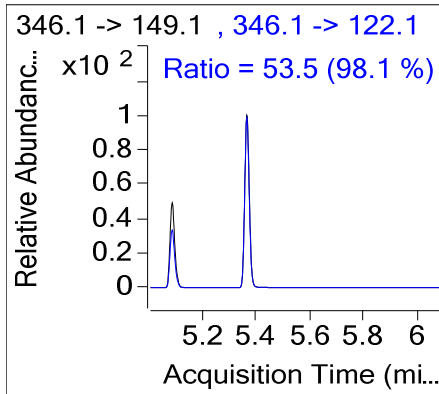
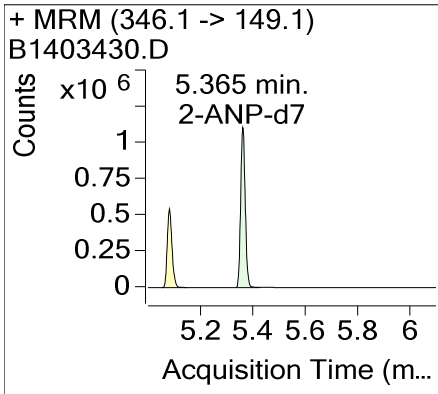


## Quantitation Results

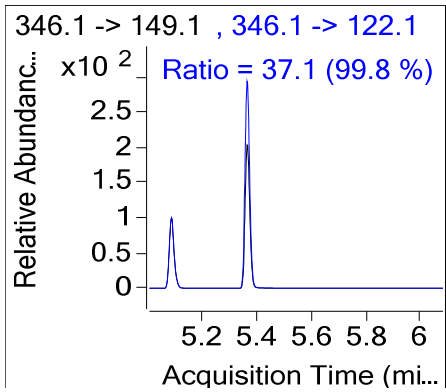
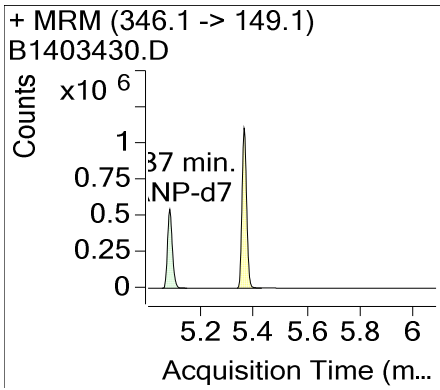
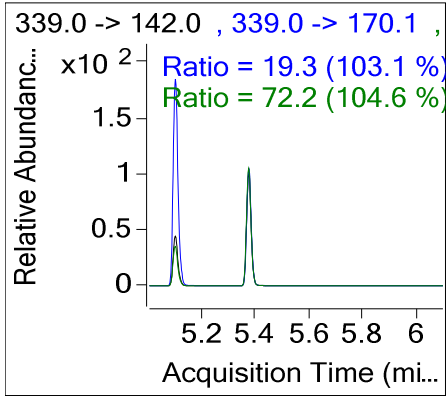
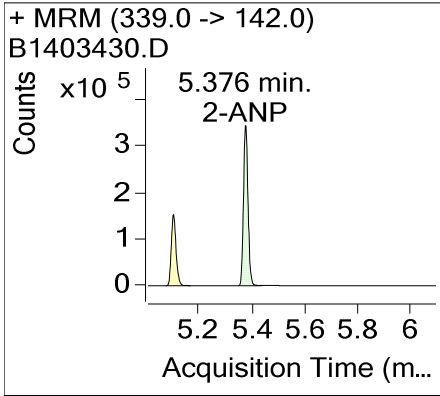
Compound	ISTD	RT	Conc (ng)	Accuracy
1-ANP	1-ANP-d7	5.104	187.6468	103.67
2-ANP	2-ANP-d7	5.376	181.8189	101.01
4-ABP	4-ABP-d9	6.274	18.5196	102.89

# Quantitative Analysis Sample Report

## Compound Graphics



# Quantitative Analysis Sample Report





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

