

Figure 1 Supplementary Information: Stability of select amino acids after 24 hours of exposure to 80 °C. Results are average of triplicate measurements, with error bars representing +/- one standard deviation.

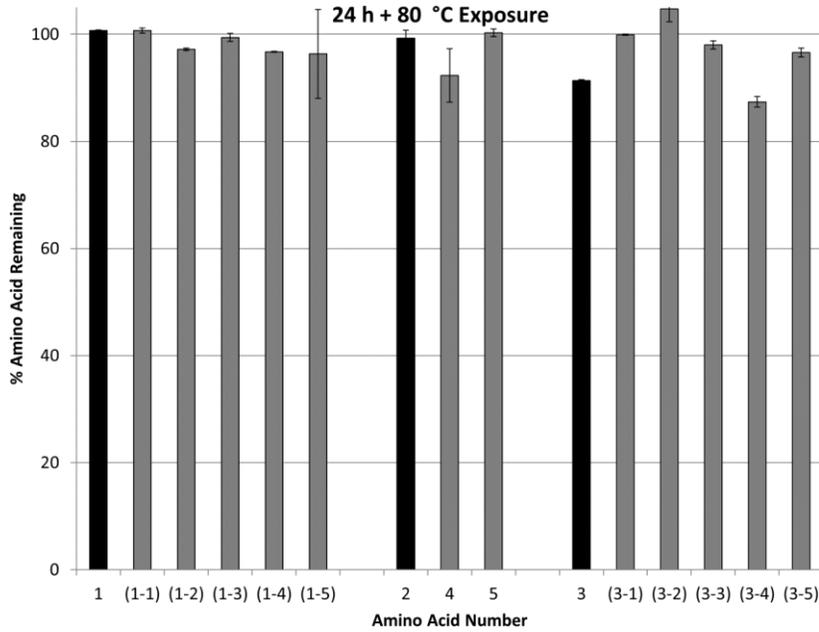
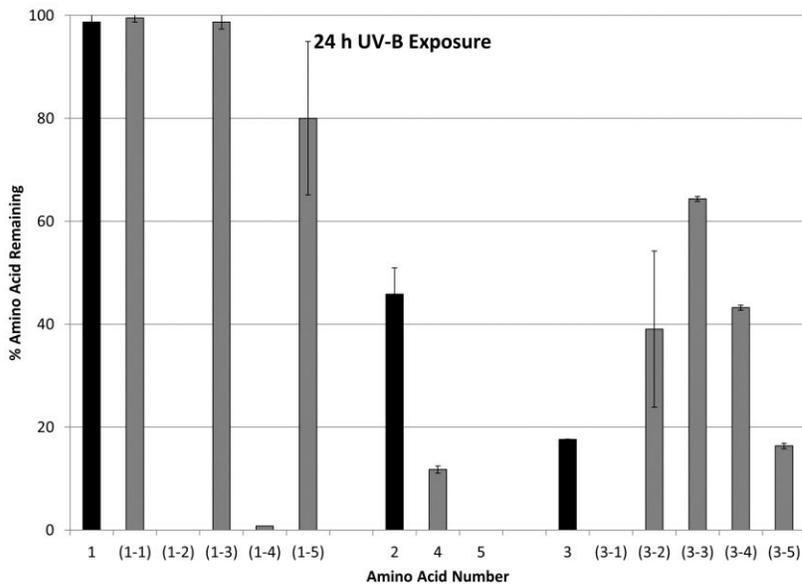
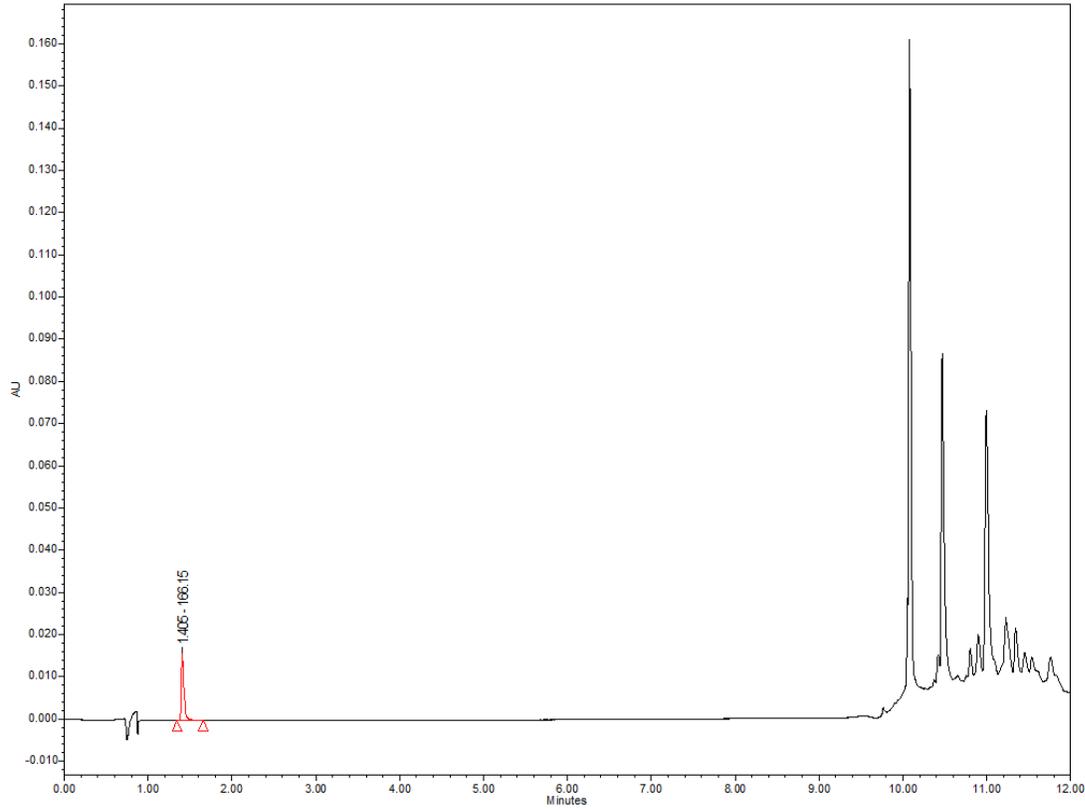


Figure 2 Supplementary Information: Stability of select amino acids after being exposed to UV-B radiation for 24 h. Bars are the average of triplicate measurements, and error bars represent +/- one standard deviation.



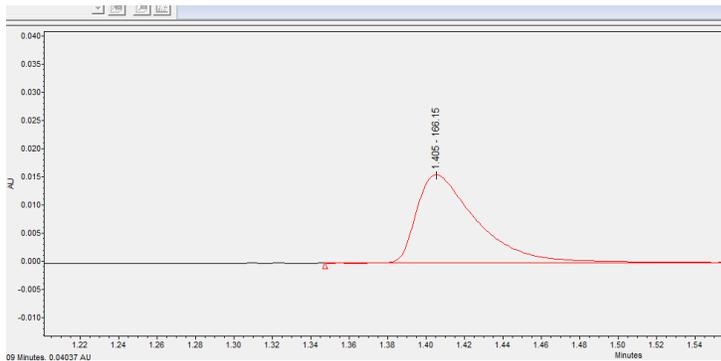
UV Exposure data (pg 2-117) of LC absorbance at 254 nm, with integrated area, and corresponding extracted mass spectrum. One sample chromatogram of each control (number not followed by any other identifying information, such as UVA, UVB, UVC), and UVA, UVB, and UVC irradiated samples are shown. Graphs in paper were produced by averaging the results of triplicate measurements. Amino acid identified with number in Tables 1 and 2, 1 for example, is Phe.

1 LC PDA Detector Data with Integrated Peak

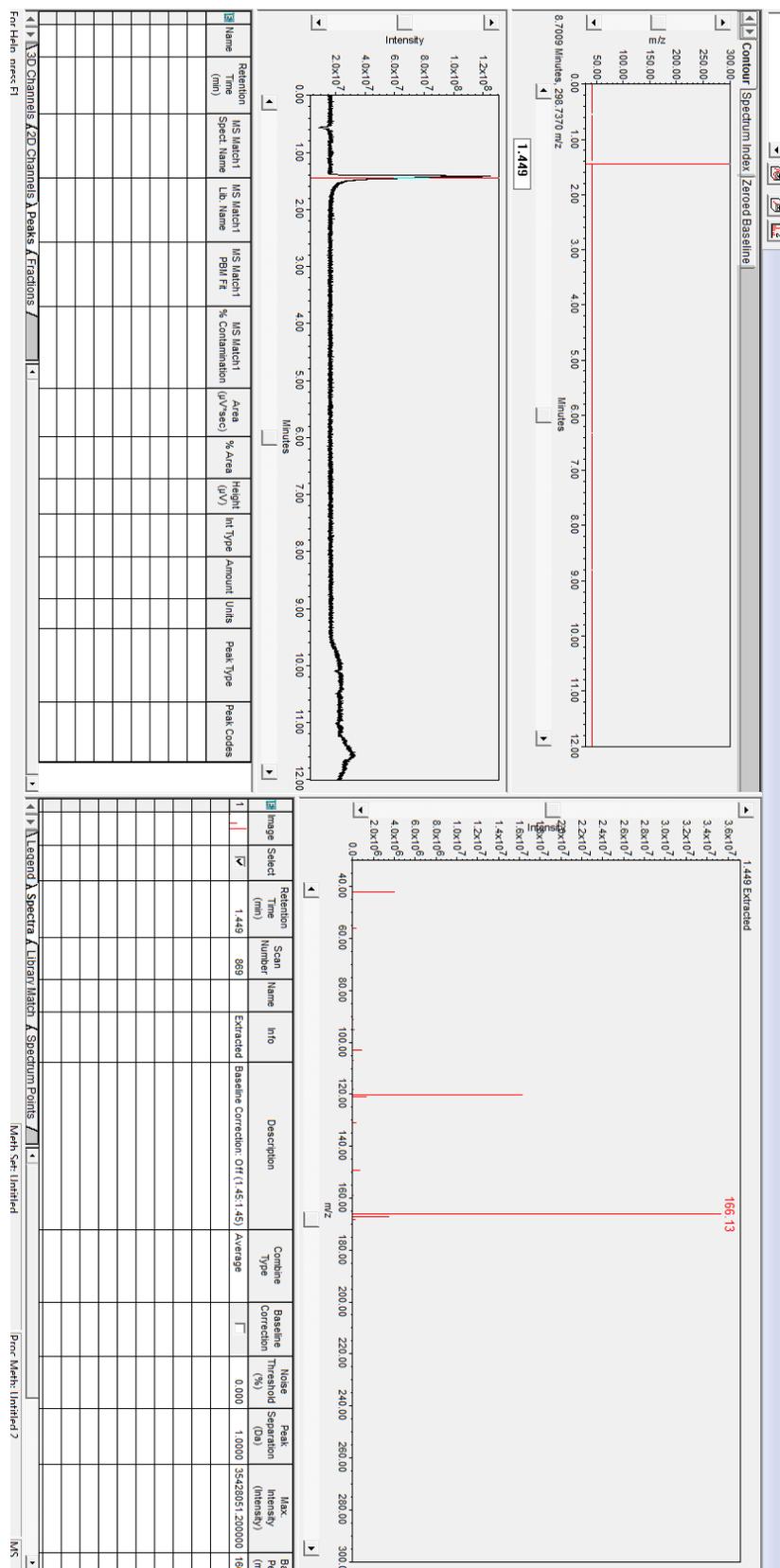


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.405	35021	100.00	15687	bb			Unknown

Zoom in of integrated peak shown above:

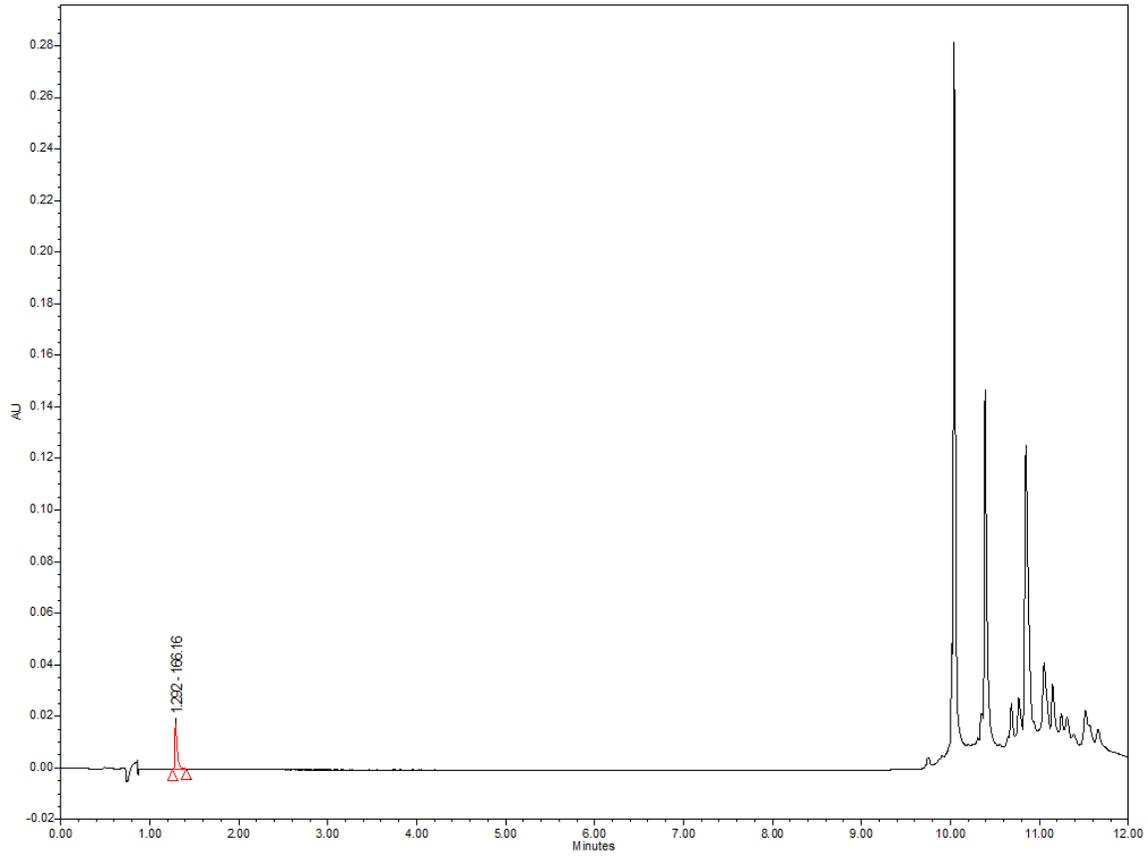


1 Mass Spectrum



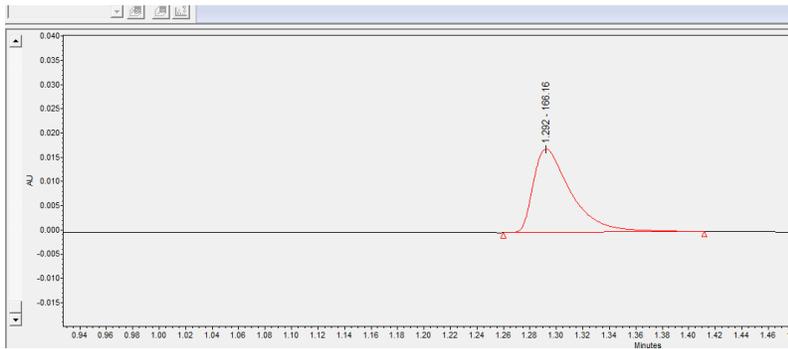
1 Mass Spectrum

1 UV-A LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.292	34000	100.00	17219	bb			Unknown

Zoom in of integrated peak shown above:



1 UVA Mass Spectrum

1.316

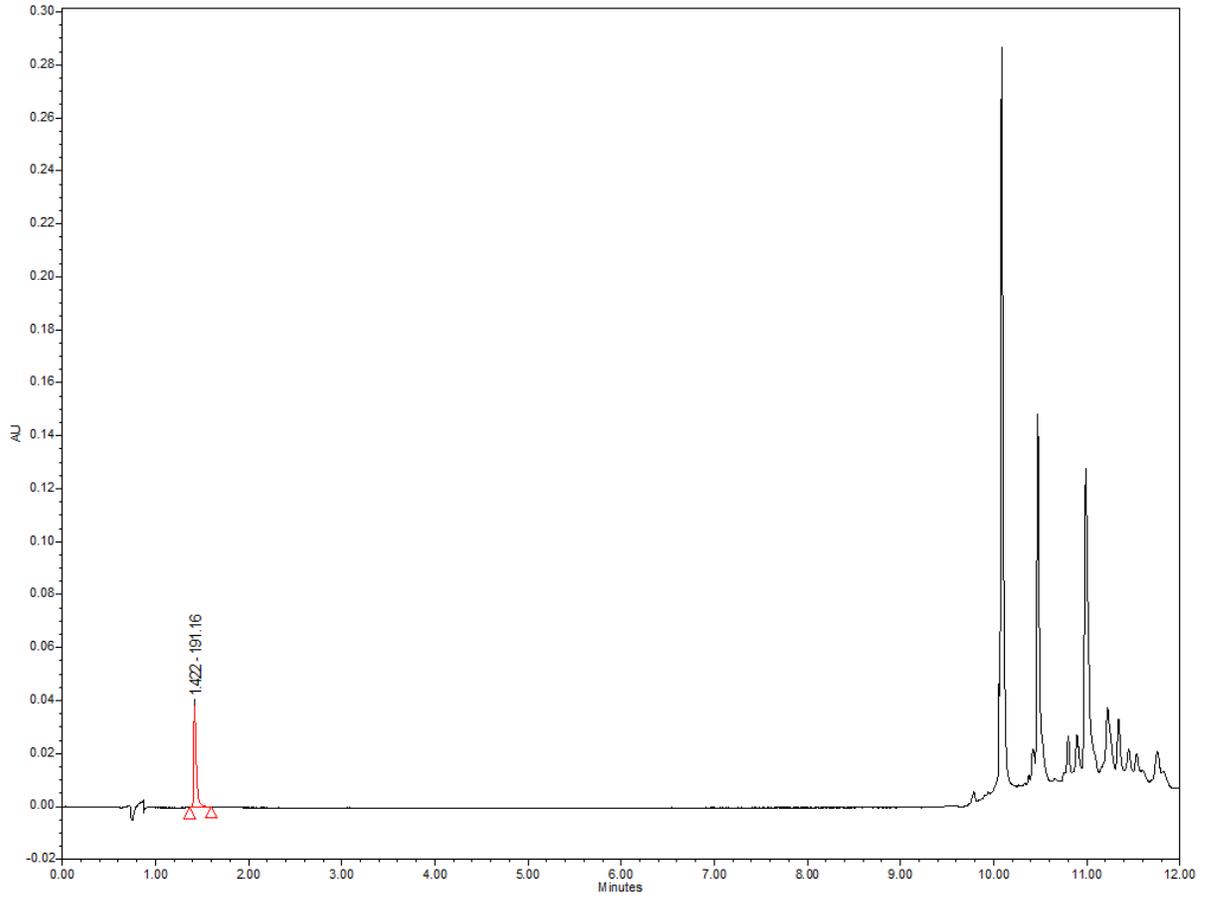
1.316 Extracted

Retention Time (min)	MS Match1 Specd Name	MS Match1 Lab. Name	MS Match1 PPM Ft	MS Match1 % Contamination	Area (µV*sec)	%Area	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes
1.316												

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (DB)	Max Intensity (Intensity)	PG
1	<input checked="" type="checkbox"/>	1.316	789		Extracted	Baseline Correction: Off (1.316132)	Average	<input type="checkbox"/>	0.000	1.0000	5414571.200000	18

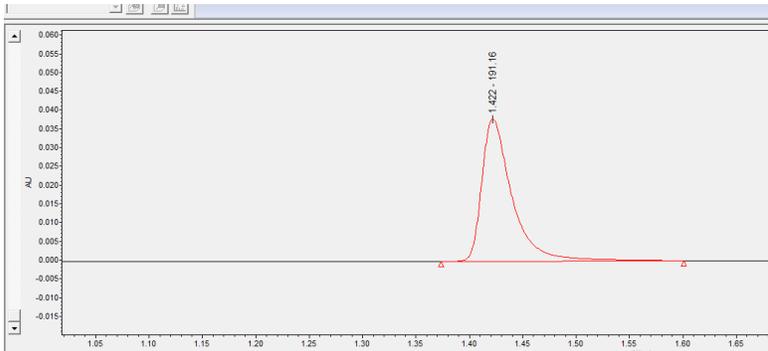
3D Channels
 2D Channels
 Peaks
 Fractions
 Legend
 Spectra
 Uranium
 Matrix
 Spectrum
 Points

1-1 LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.422	74917	100.00	37971	bb			Unknown

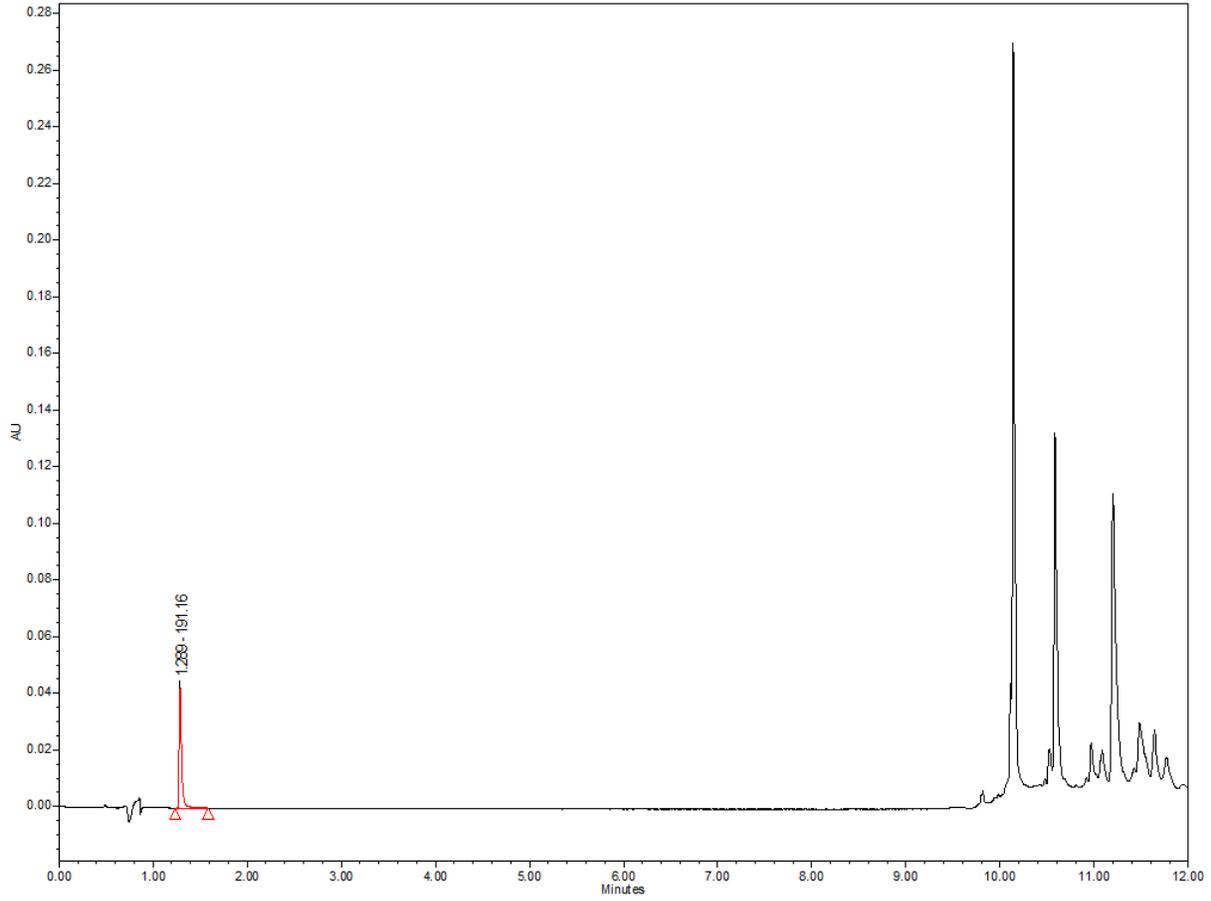
Zoom in of integrated peak shown above:



1-1 Mass Spectrum

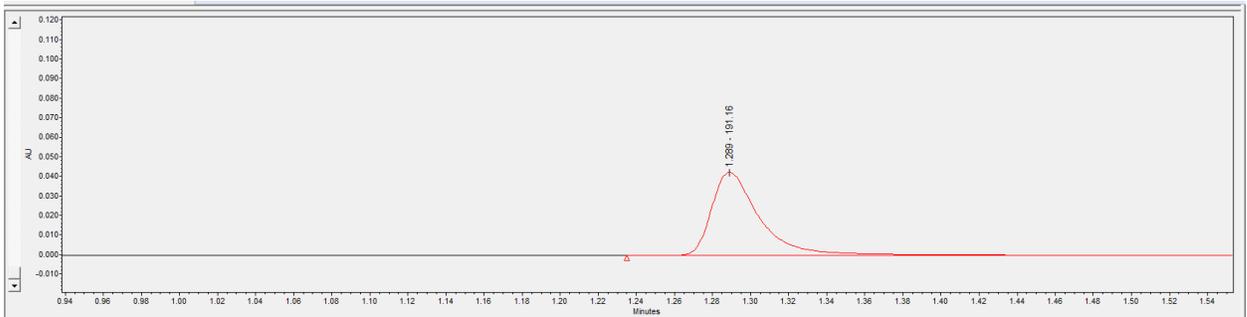


1-1 UV-A LC PDA Detector Data with Integrated Peak

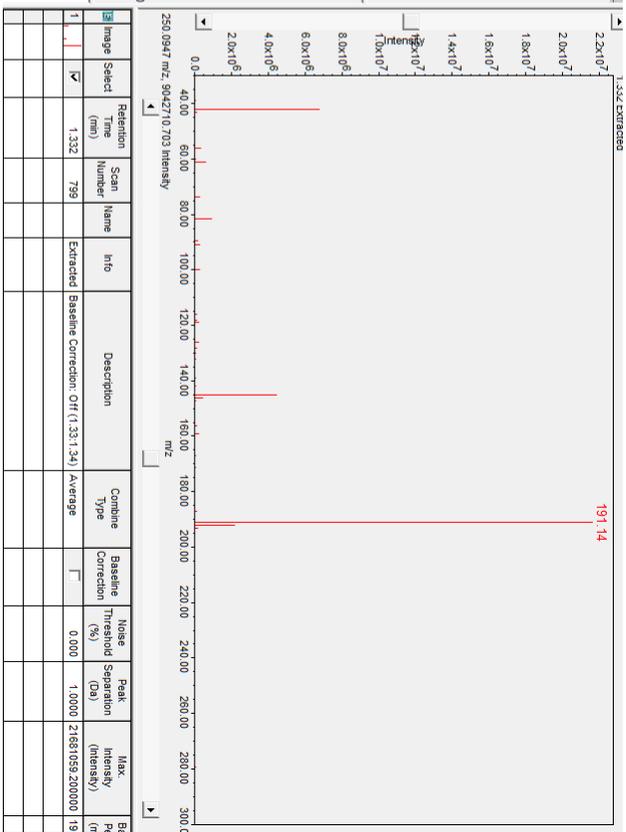
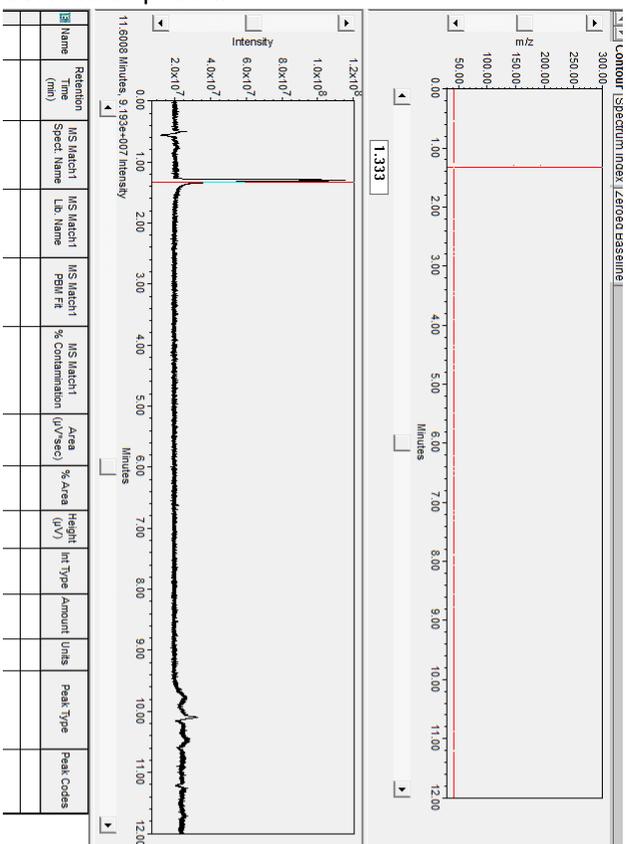


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.289	76760	100.00	42543	bb			Unknown

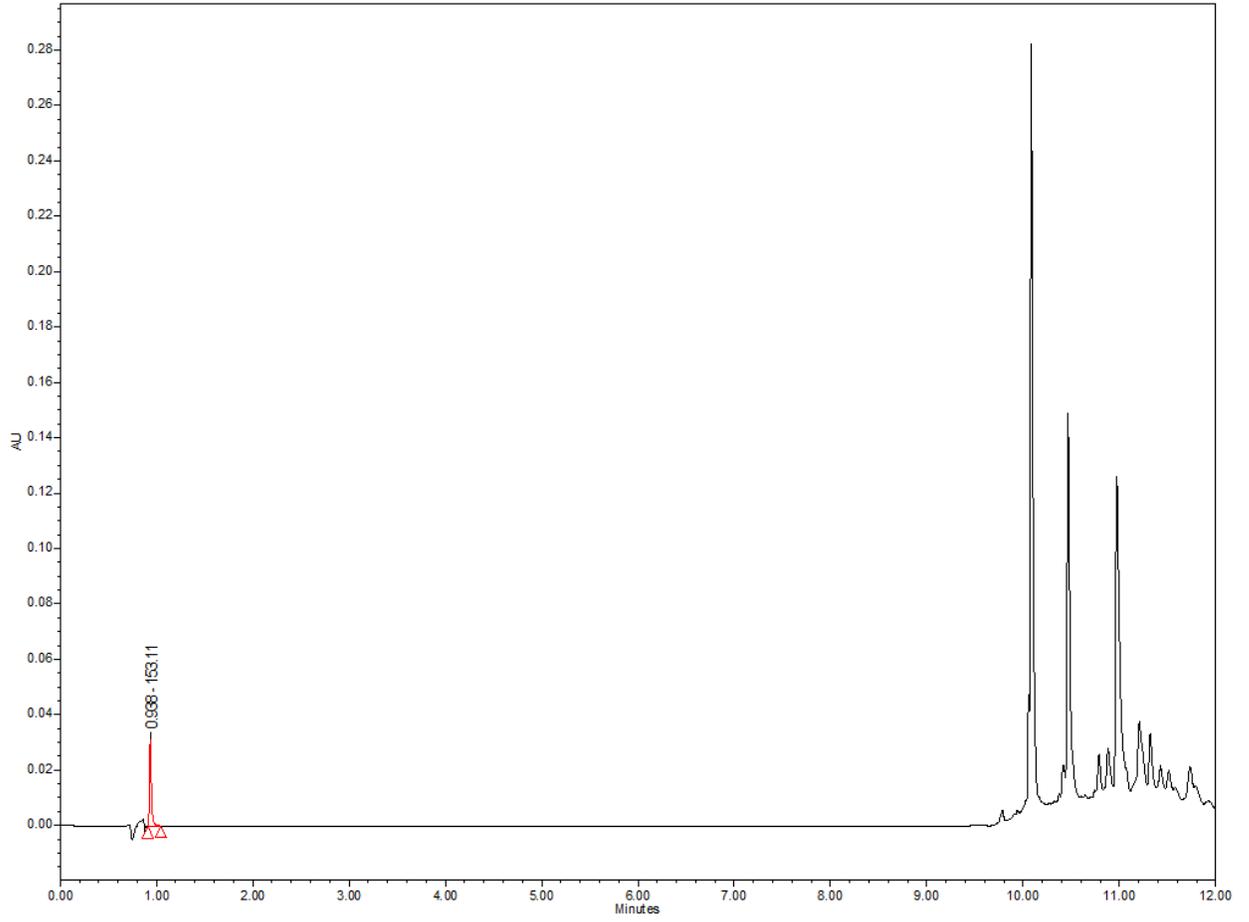
Zoom in of integrated peak shown above:



1-1 UVA Mass Spectrum

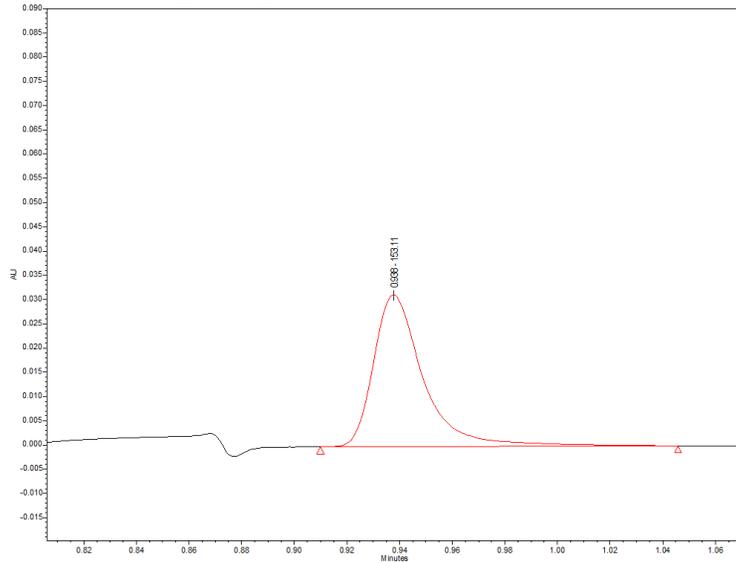


1-3 LC PDA Detector Data with Integrated Peak

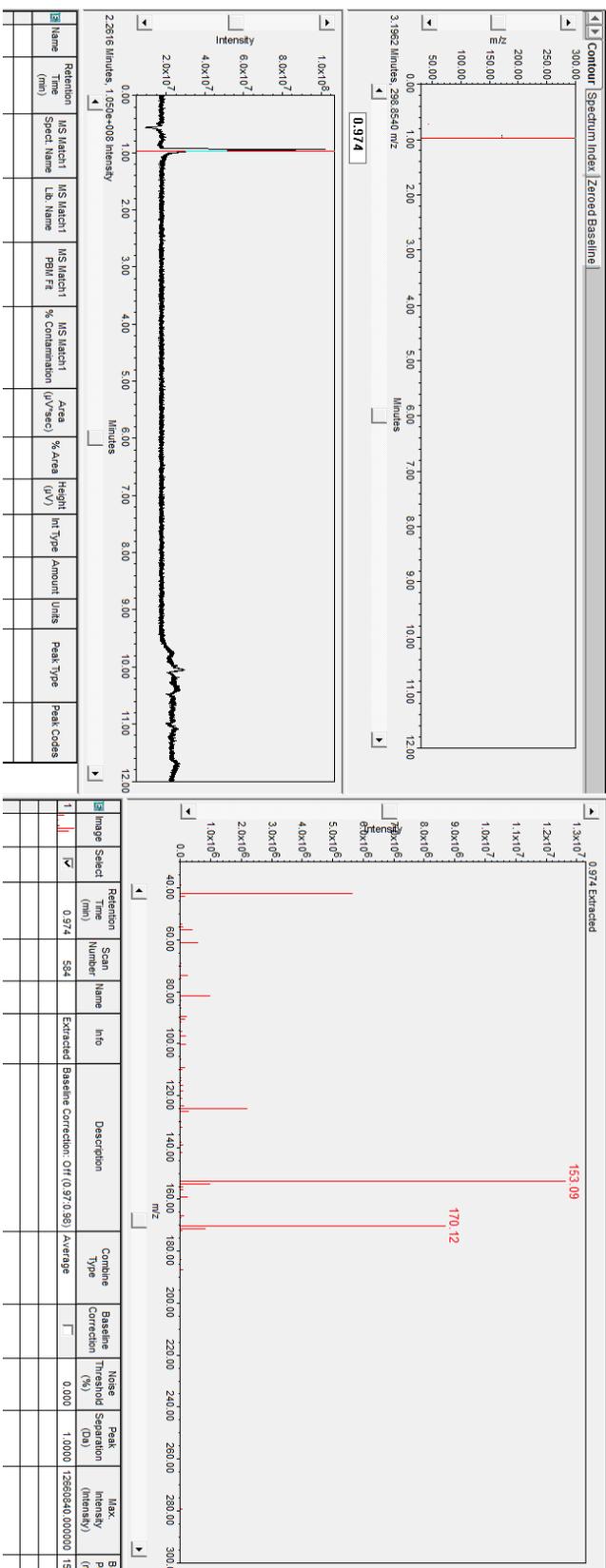


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.938	41162	100.00	31358	bb			Unknown

Zoom in of integrated peak shown above:



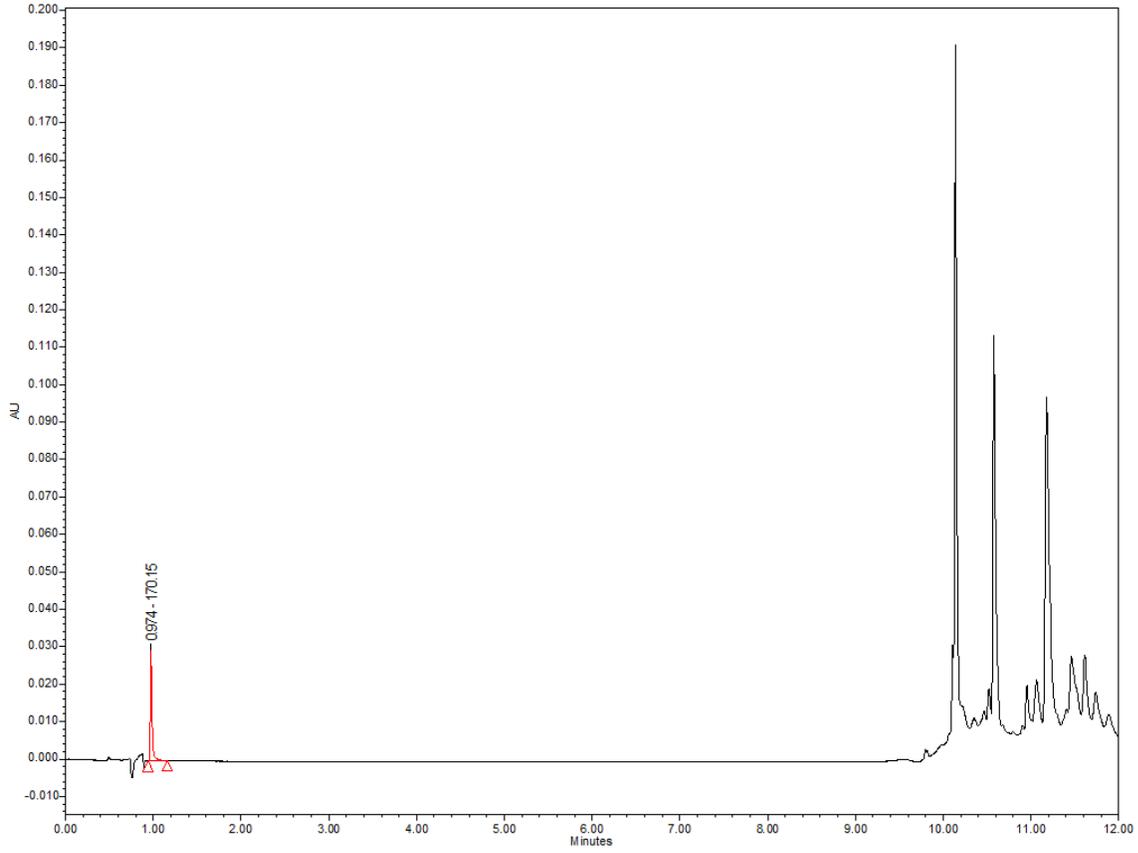
1-3 Mass Spectrum



Name	Retention Time (min)	MS Match	MS Match Spec. Name	MS Match Lib. Name	MS Match PDB File	MS Match % Contamination	Area (µV*sec)	%Area	Height (µV)	ht Type	Amount	Units	Peak Type	Peak Codes
	0.974													

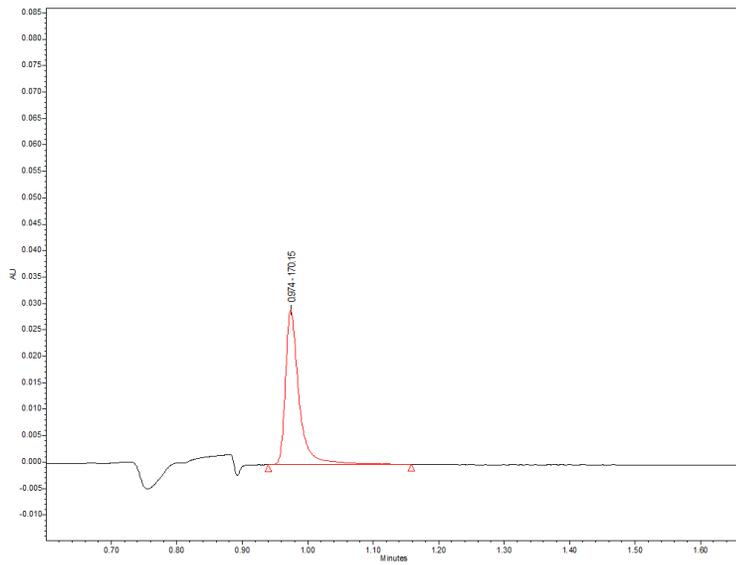
Image Select	Retention Time (min)	Scan Number	Scan Name	File	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Ref
<input checked="" type="checkbox"/>	0.974	534			Extracted Baseline Correction: Q1 (0.974.98)	Average		0.000	1.0000	13696940.000000	15

1-3 UV-A LC PDA Detector Data with Integrated Peak

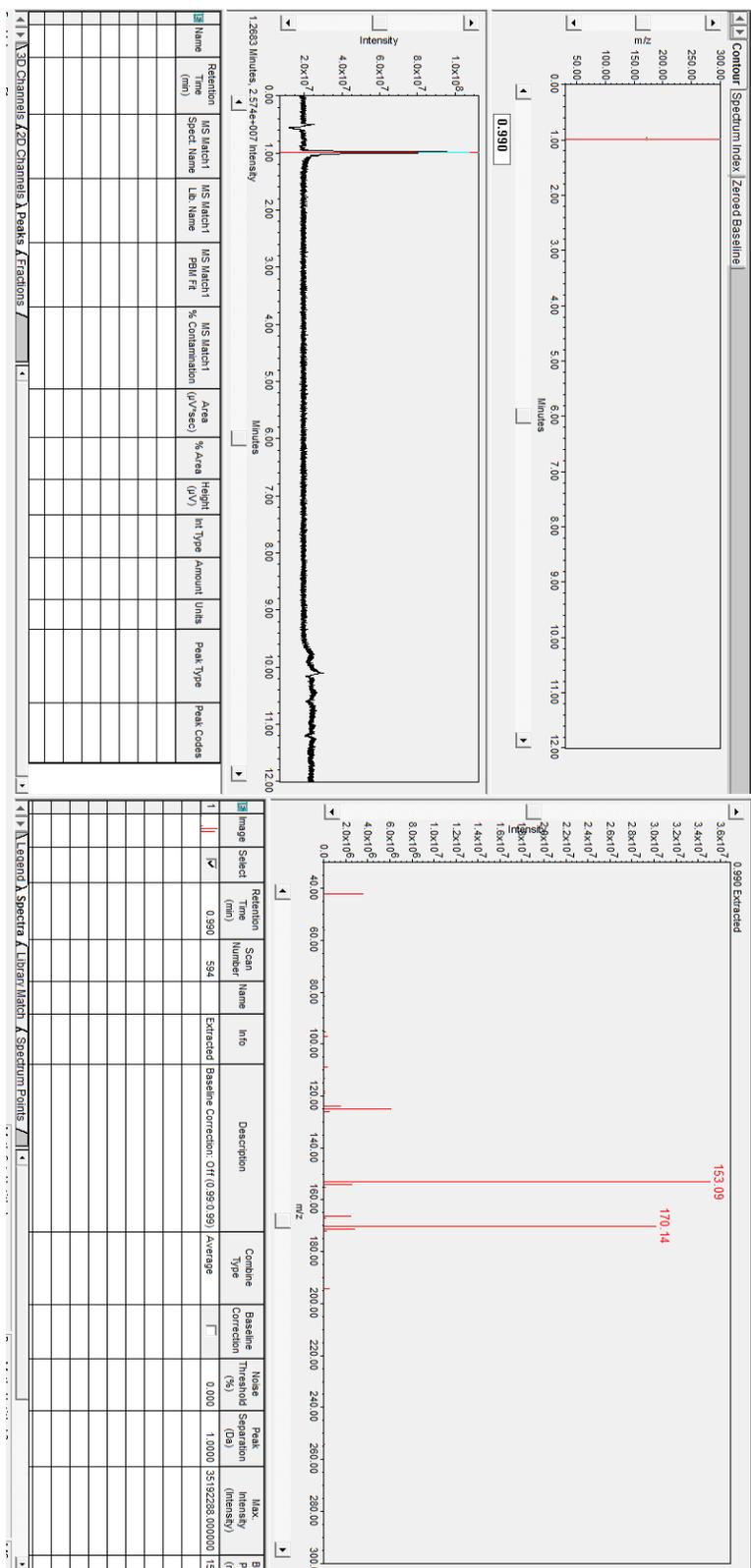


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.974	42426	100.00	29318	bb			Unknown

Zoom in of integrated peak shown above:



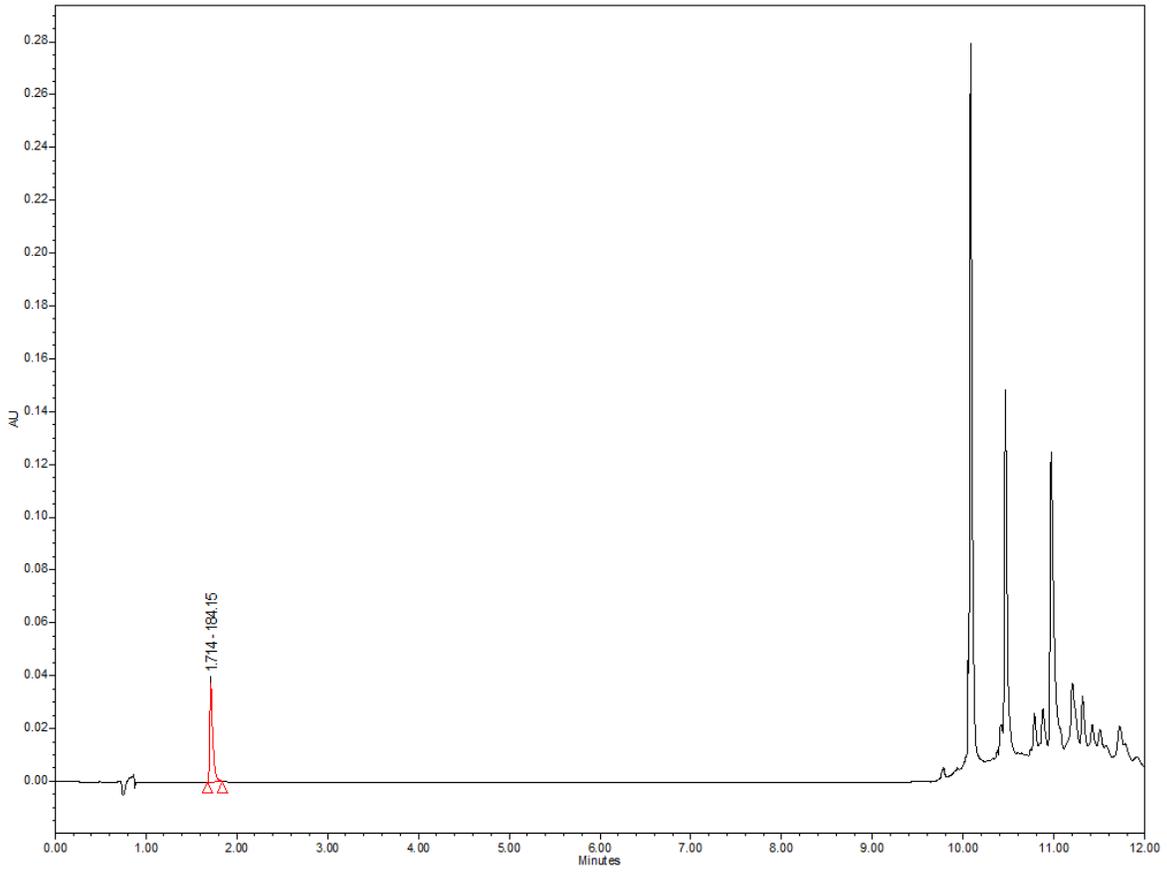
1-3 UVA Mass Spectrum



Name	Retention Time (min)	MS Method	MS Method	MS Method	MS Method	Area (µV sec)	%Area (µV)	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes

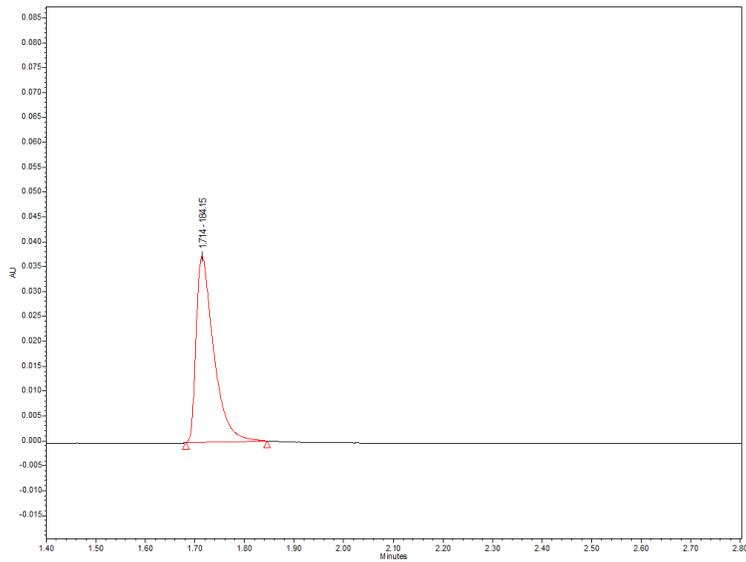
Image	Select	Retention Time (min)	Scan Number	Scan Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Ref Int
1	<input checked="" type="checkbox"/>	0.990	594			Extracted Baseline Correction Off (0.990.59)	Average	<input type="checkbox"/>	0.000	1.0000	35192288.000000	15

1-6 LC PDA Detector Data with Integrated Peak

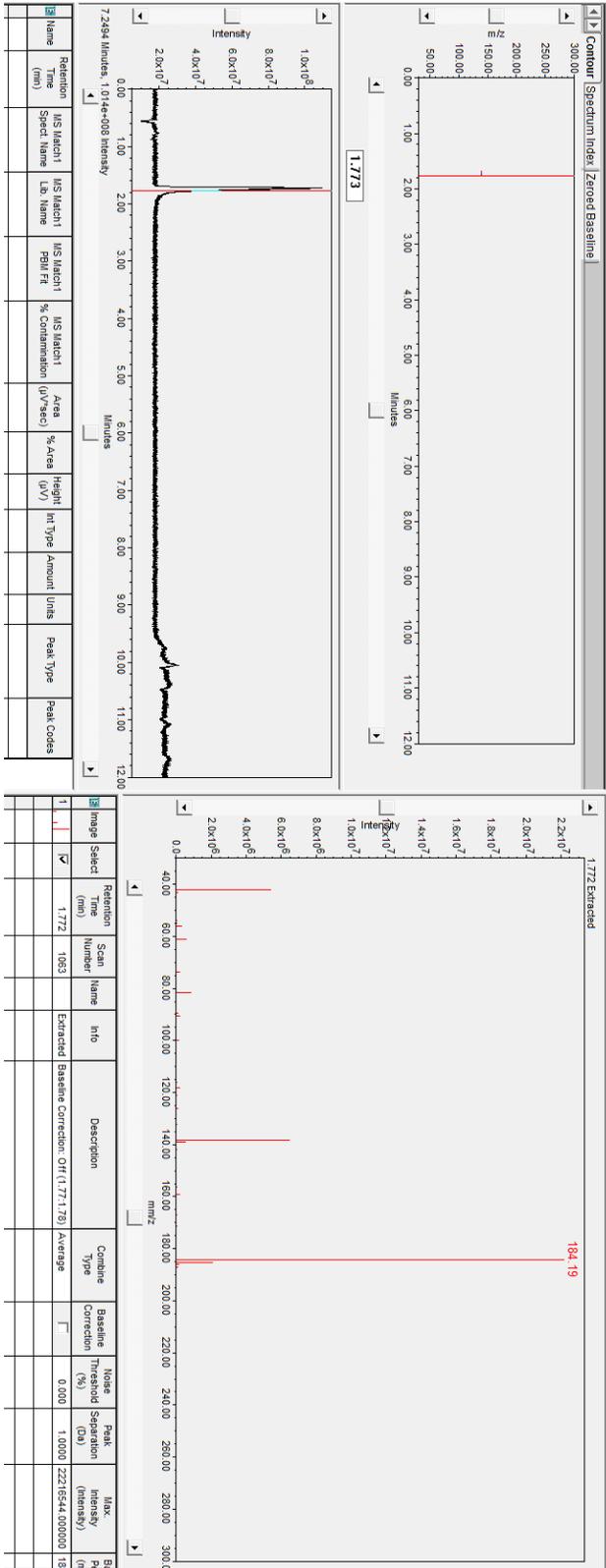


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.714	91863	100.00	37449	bb			Unknown

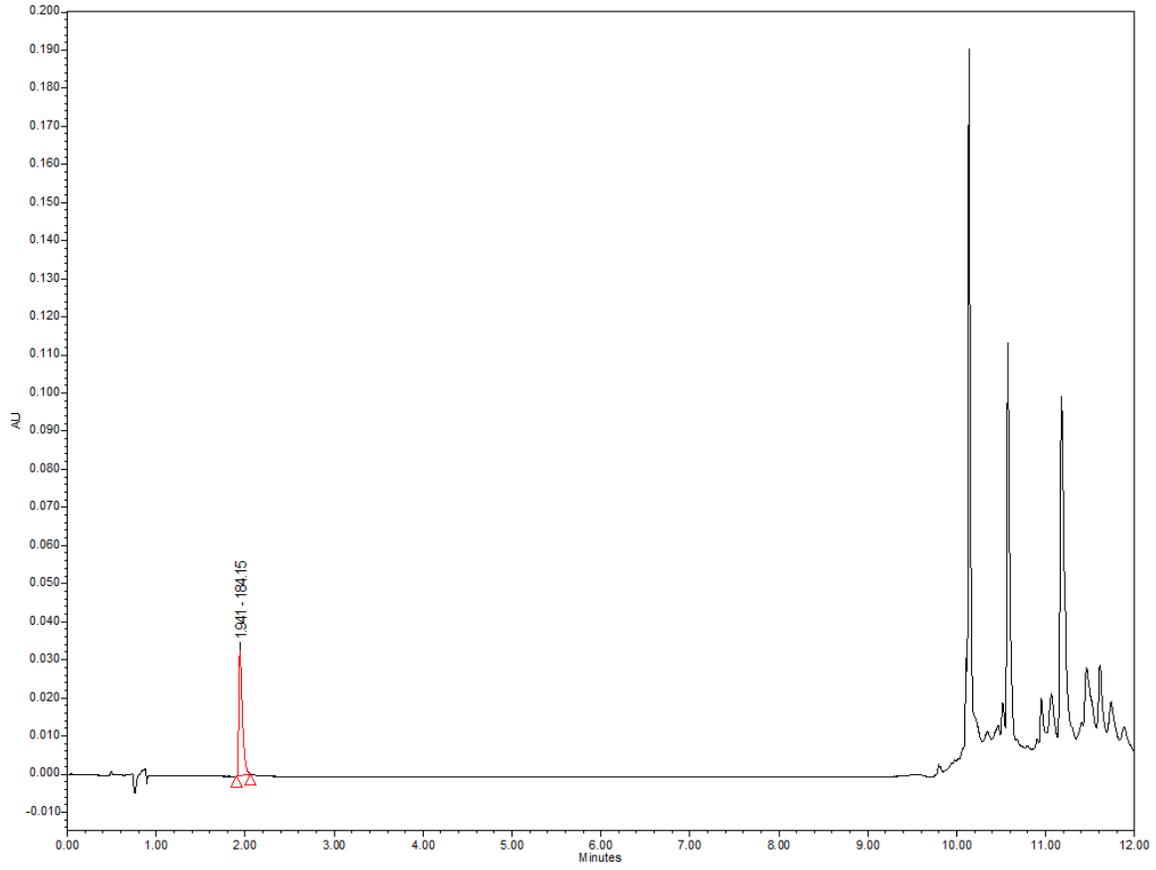
Zoom in of integrated peak shown above:



1-6 Mass Spectrum

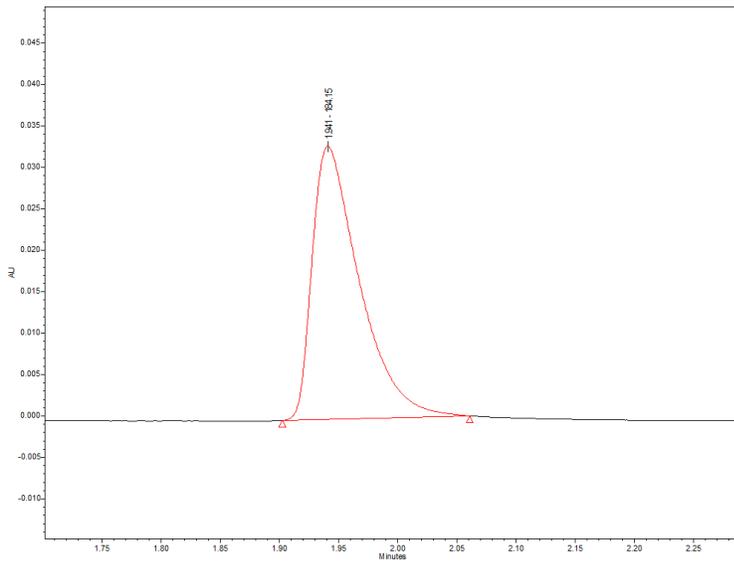


1-6 UV-A LC PDA Detector Data with Integrated Peak

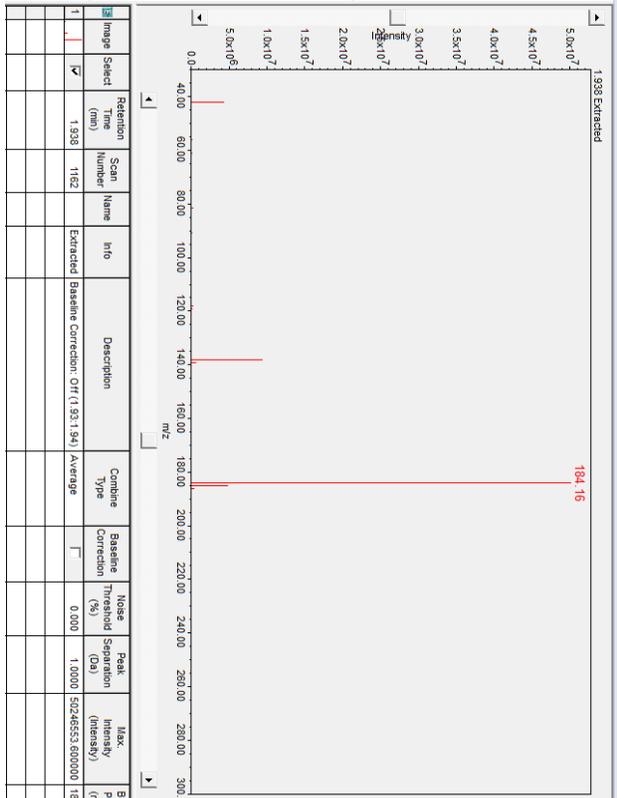
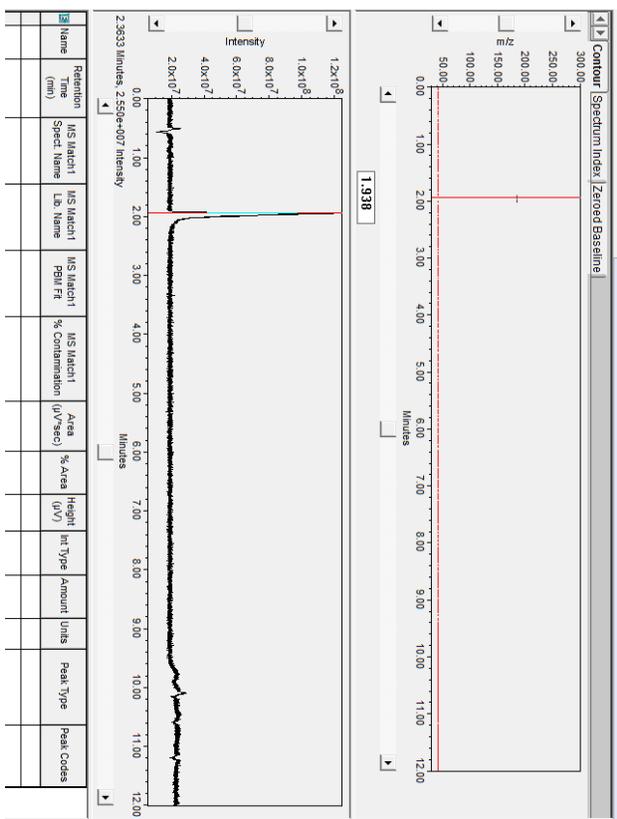


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.941	91434	100.00	32967	bb			Unknown

Zoom in of integrated peak shown above:



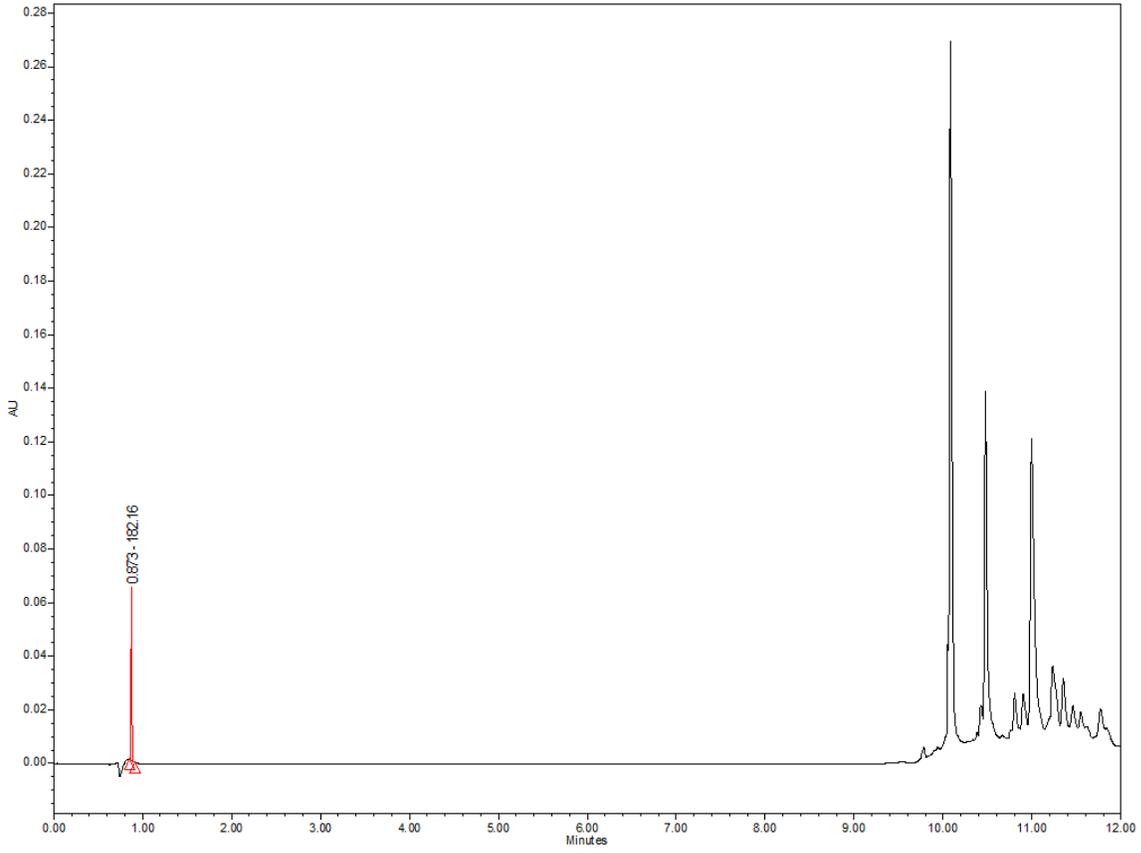
1-6 UVA Mass Spectrum



Name	Retention Time (min)	MS Method	MS Method	MS Method	MS Method	Area (uV*sec)	% Area	Height (uV)	Int. Type	Amount	Units	Peak Type	Peak Codes
	1.938	MS March1	MS March1	MS March1	MS March1								

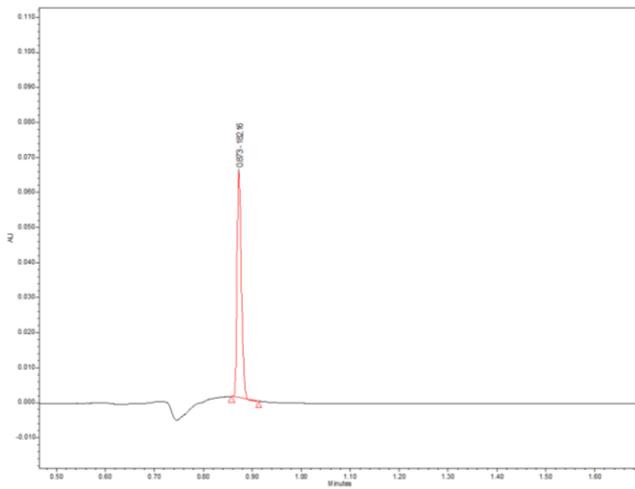
Image	Spect	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Bq
		1.938	1152				Average		0.000	1.0000	5024553.600000	184

2 LC PDA Detector Data with Integrated Peak

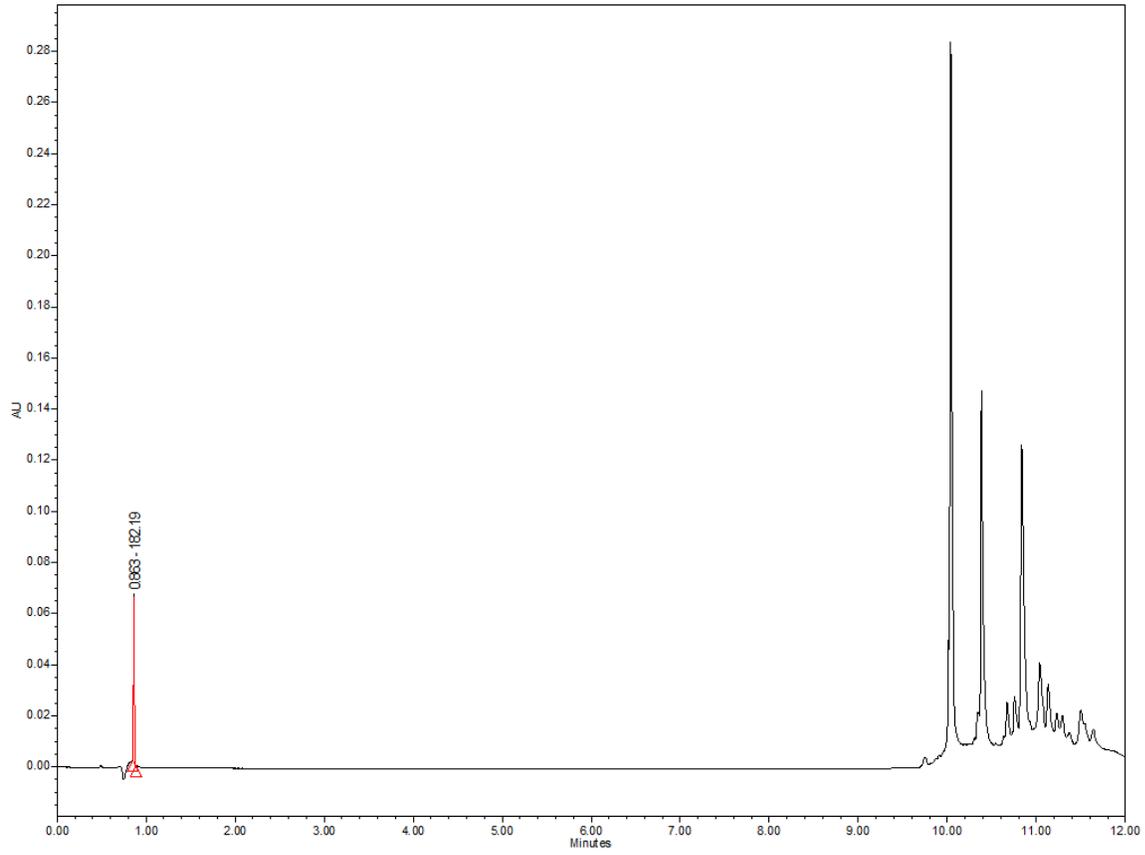


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.873	40039	100.00	64255	bb			Unknown

Zoom in of integrated peak above:

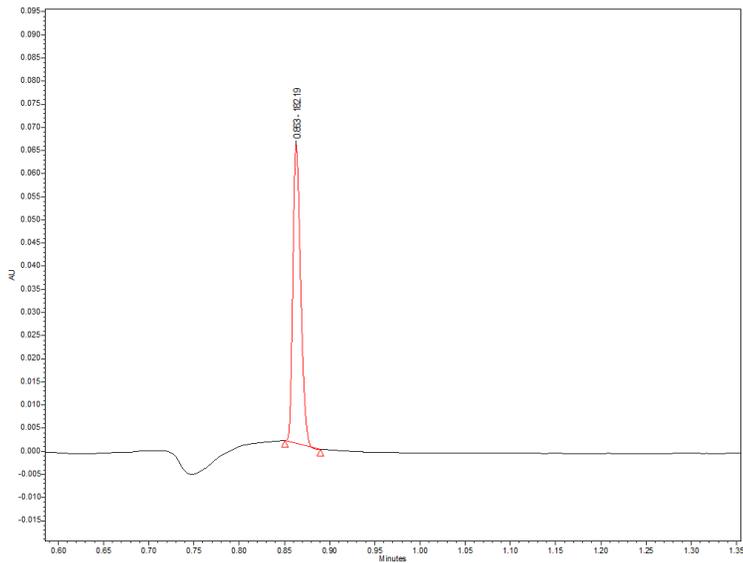


2 UV-A LC PDA Detector Data with Integrated Peak

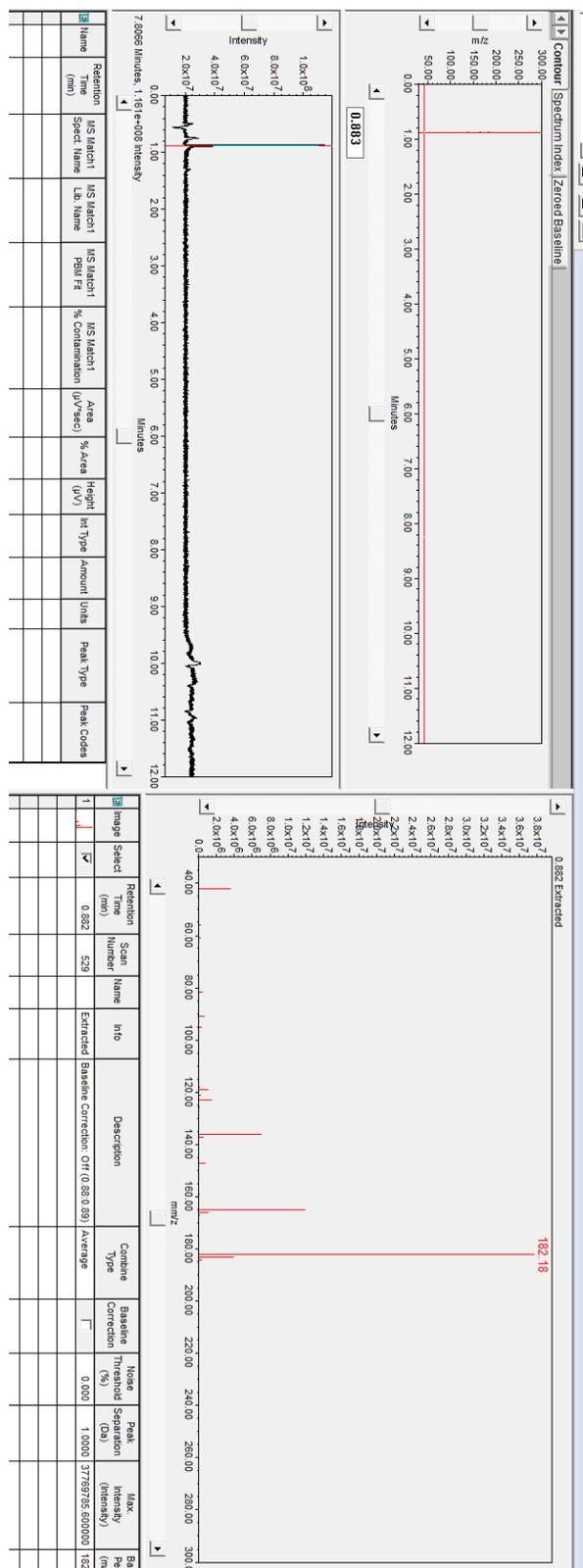


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.863	39363	100.00	64509	bb			Unknown

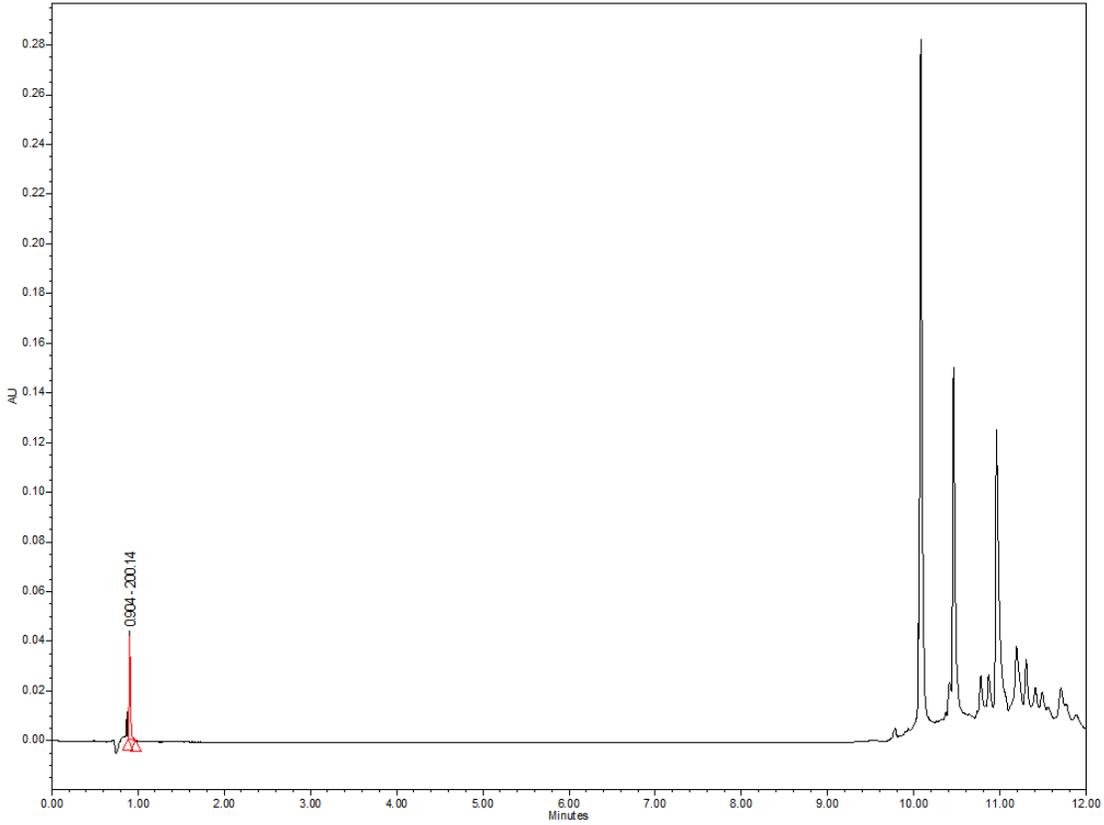
Zoom in of integrated peak shown above:



2 UVA Mass Spectrum

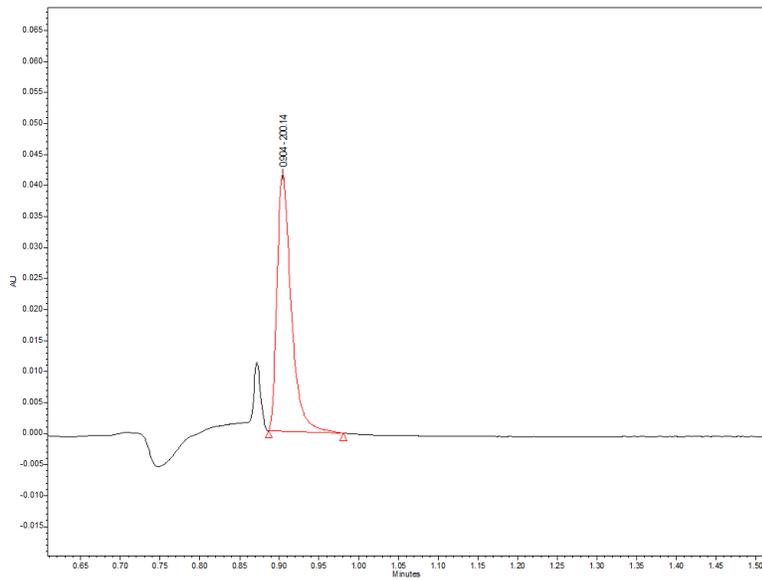


2-1 LC PDA Detector Data with Integrated Peak

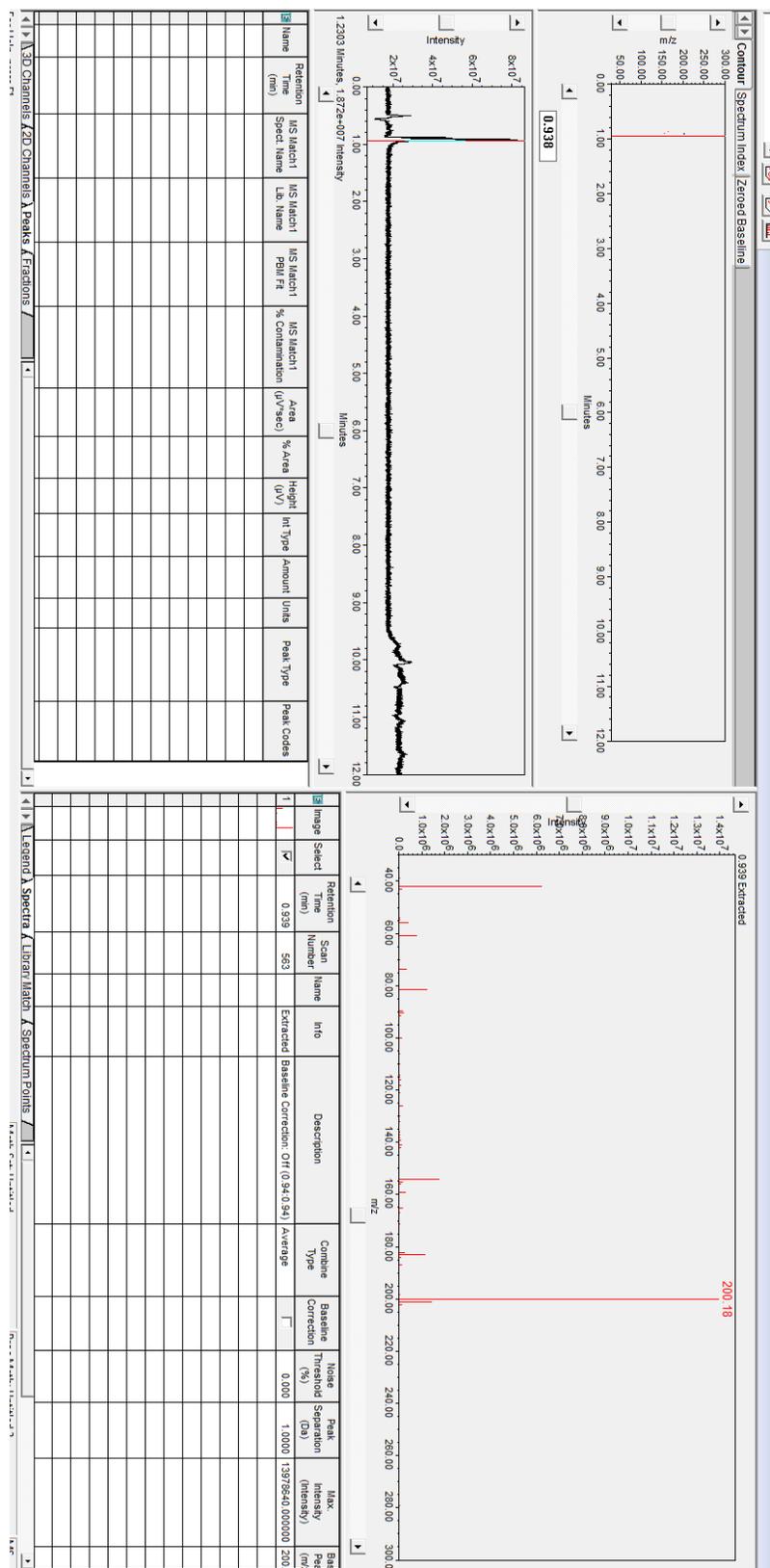


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.904	51406	100.00	41438	bb			Unknown

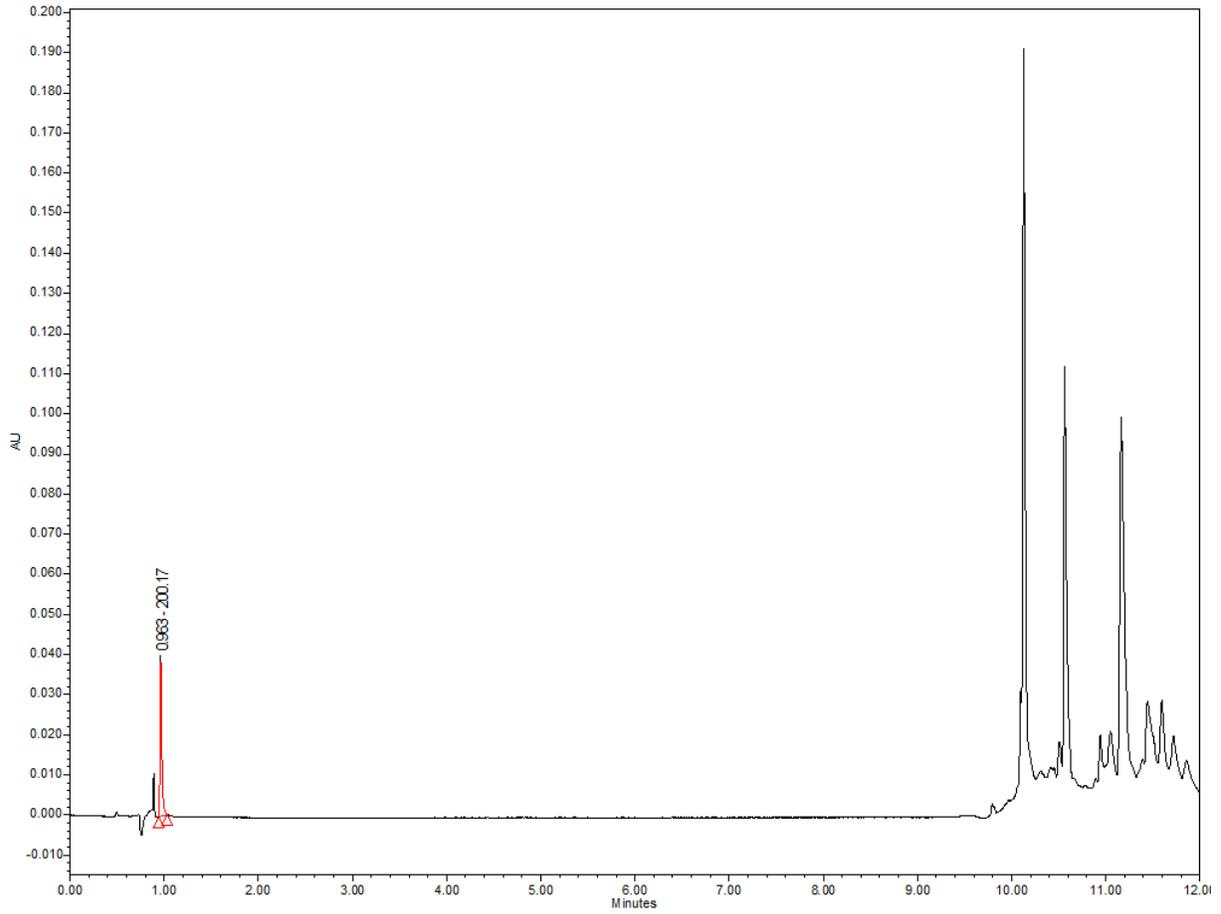
Zoom in of integrated peak shown above:



2-1 Mass Spectrum

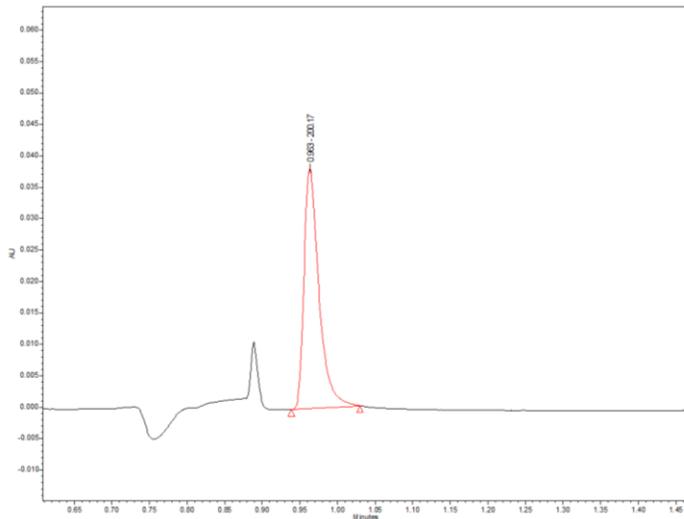


2-1 UV-A LC PDA Detector Data with Integrated Peak

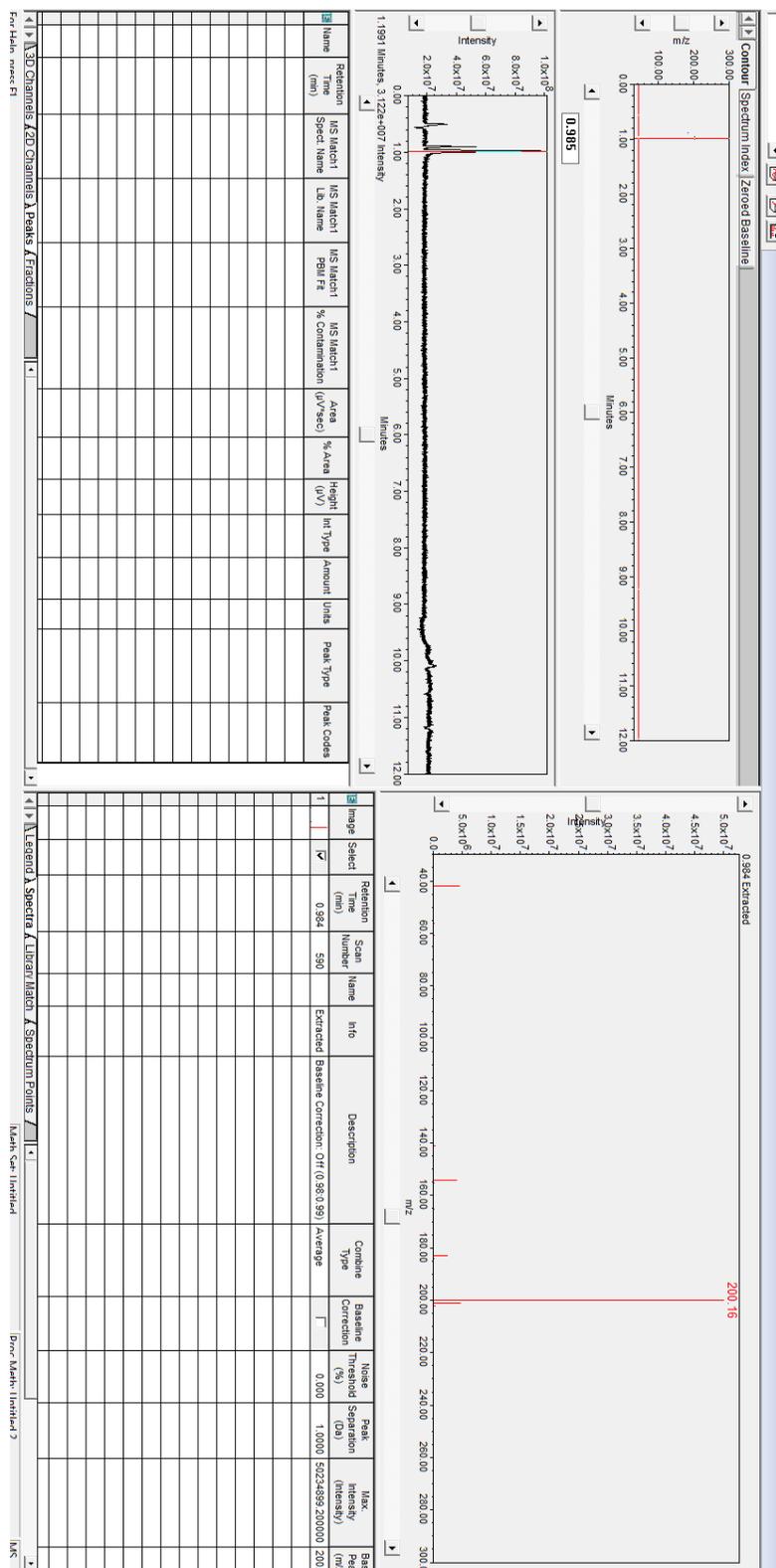


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.963	52738	100.00	38233	bb			Unknown

Zoom in of integrated peak shown above:



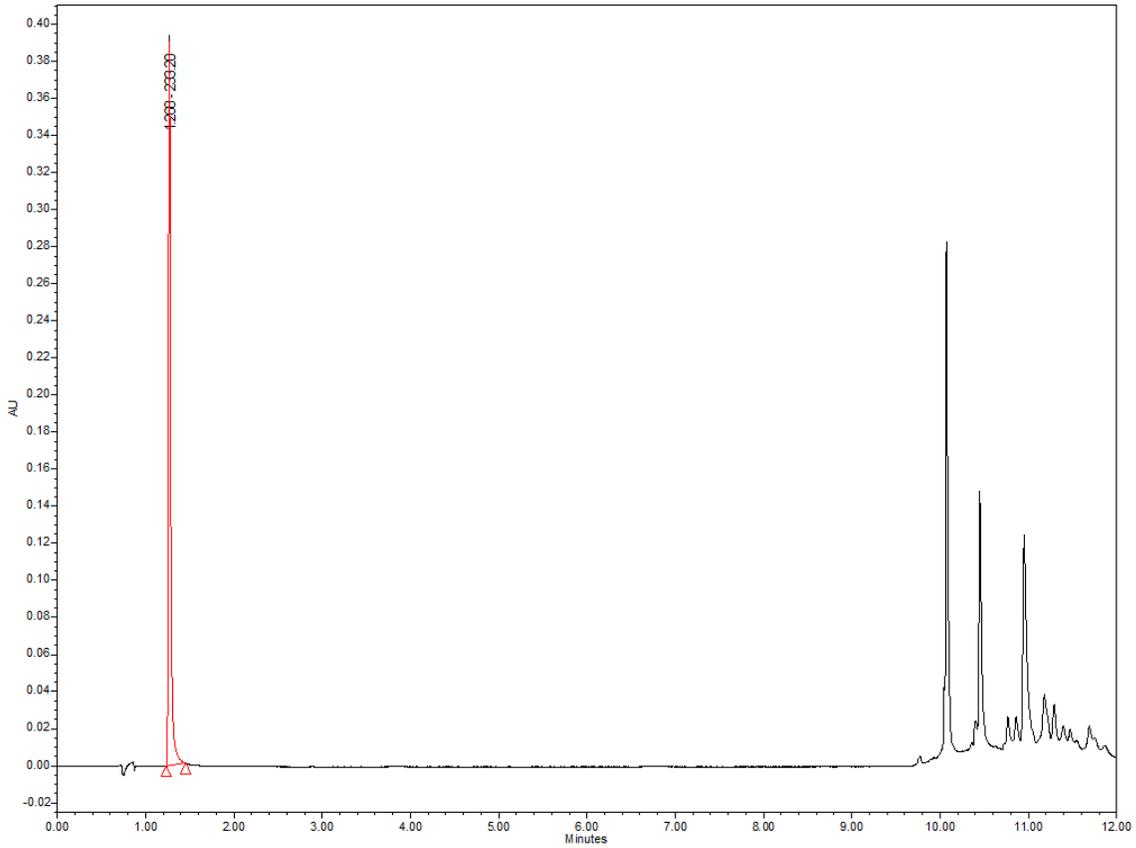
2-1 UVA Mass Spectrum



Name	Retention (min)	MS Match	Spec Name	Lib Name	MS Match	Area (uVSec)	%Area	Height (uV)	Int Type	Amount	Units	Peak Type	Peak Codes

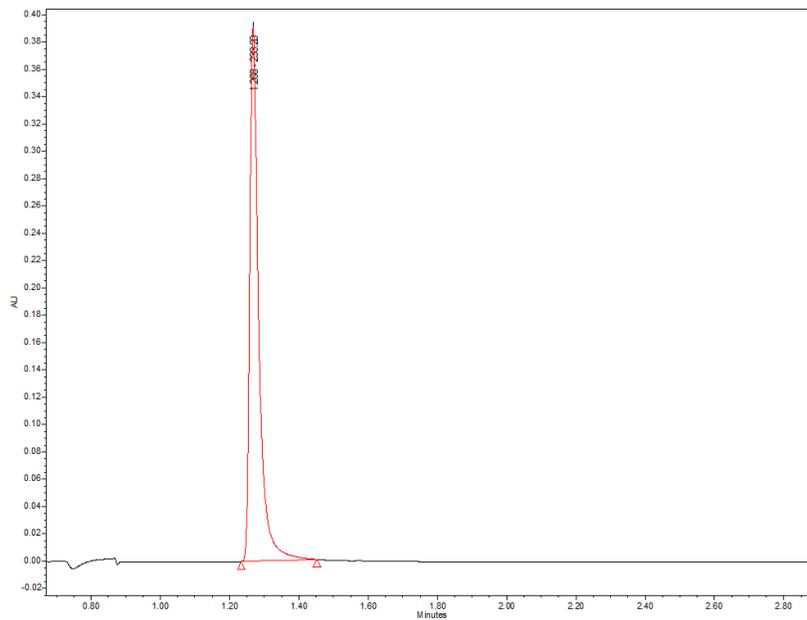
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Bas Peak
1	<input checked="" type="checkbox"/>	0.984	590		Extracted	Baseline Correction: Off (0.980-0.991)	Average		0.000	1.0000	5023489.200000	200

4 LC PDA Detector Data with Integrated Peak

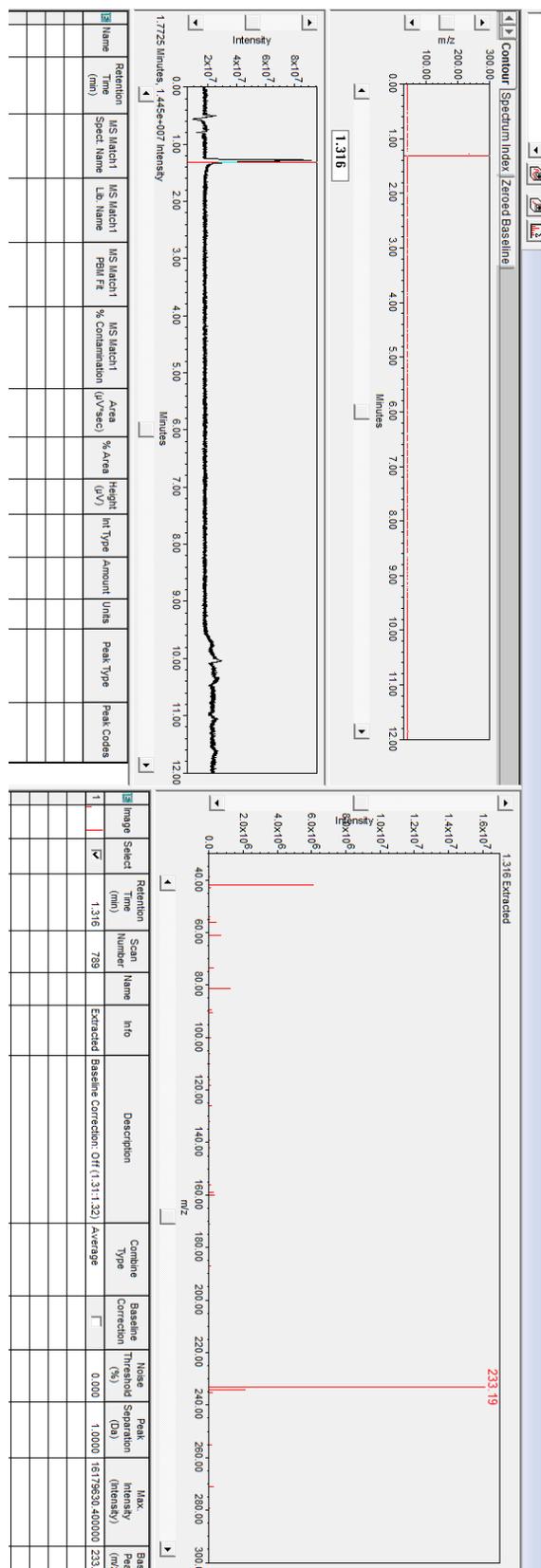


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.268	709654	100.00	390718	bb			Unknown

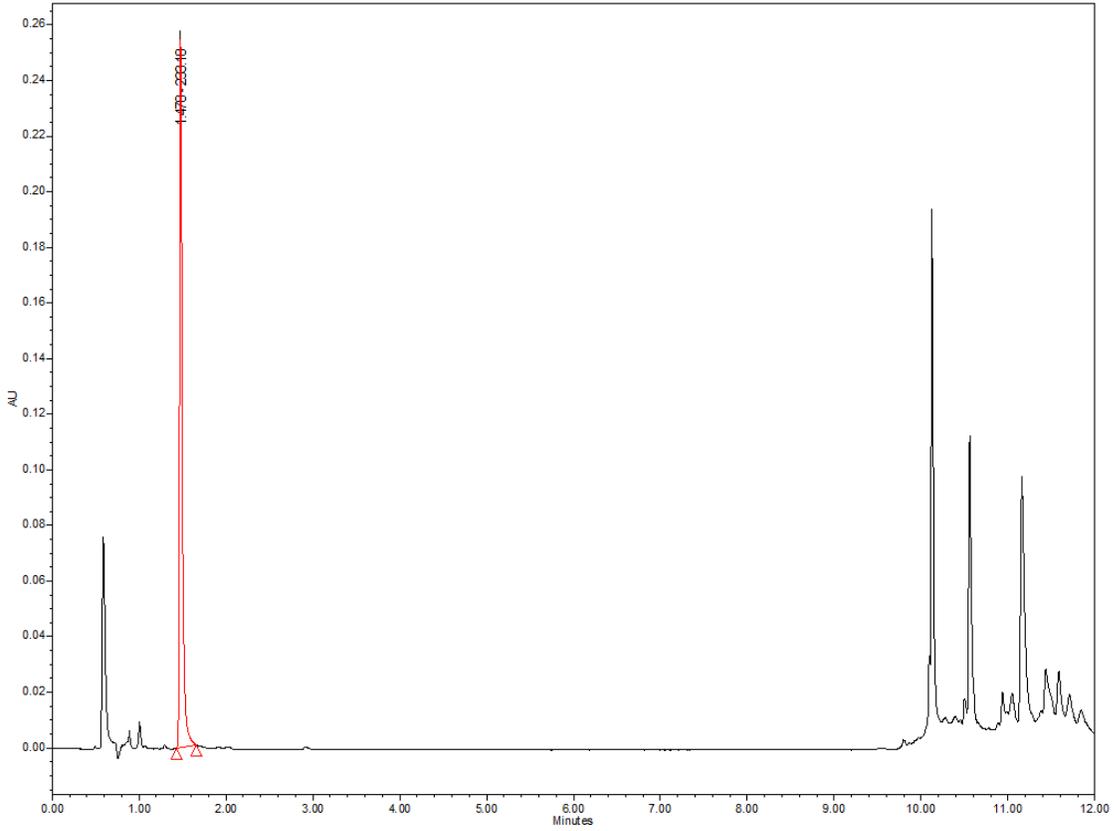
Zoom in of integrated peak shown above:



4 Mass Spectrum

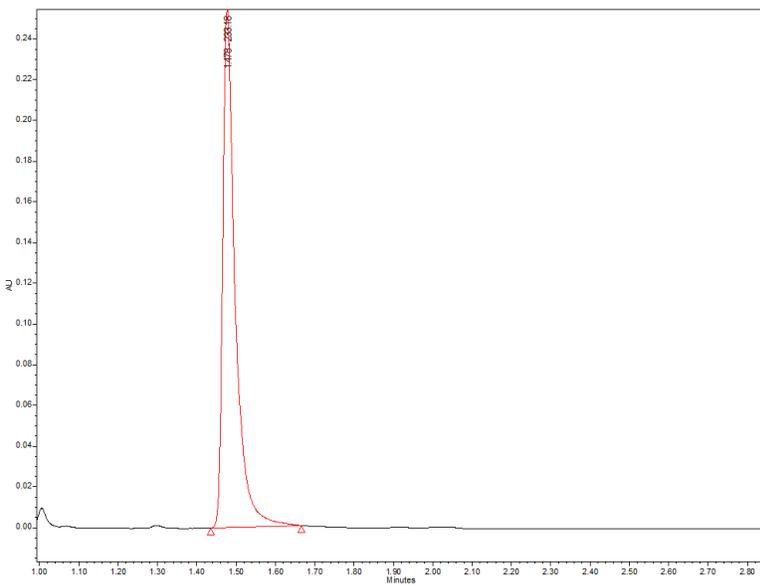


4 UV-A LC PDA Detector Data with Integrated Peak

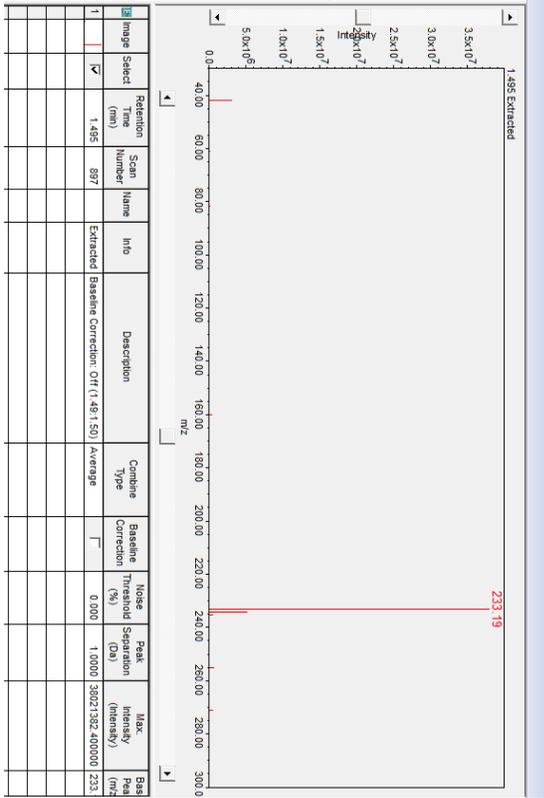
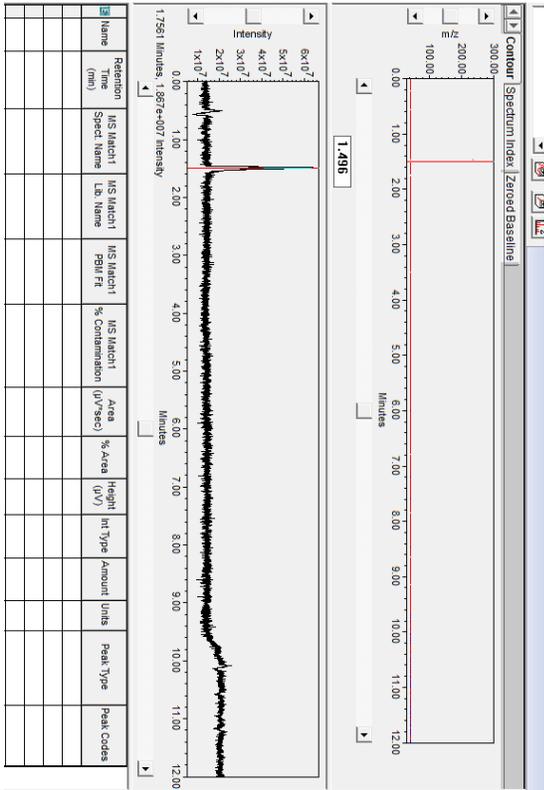
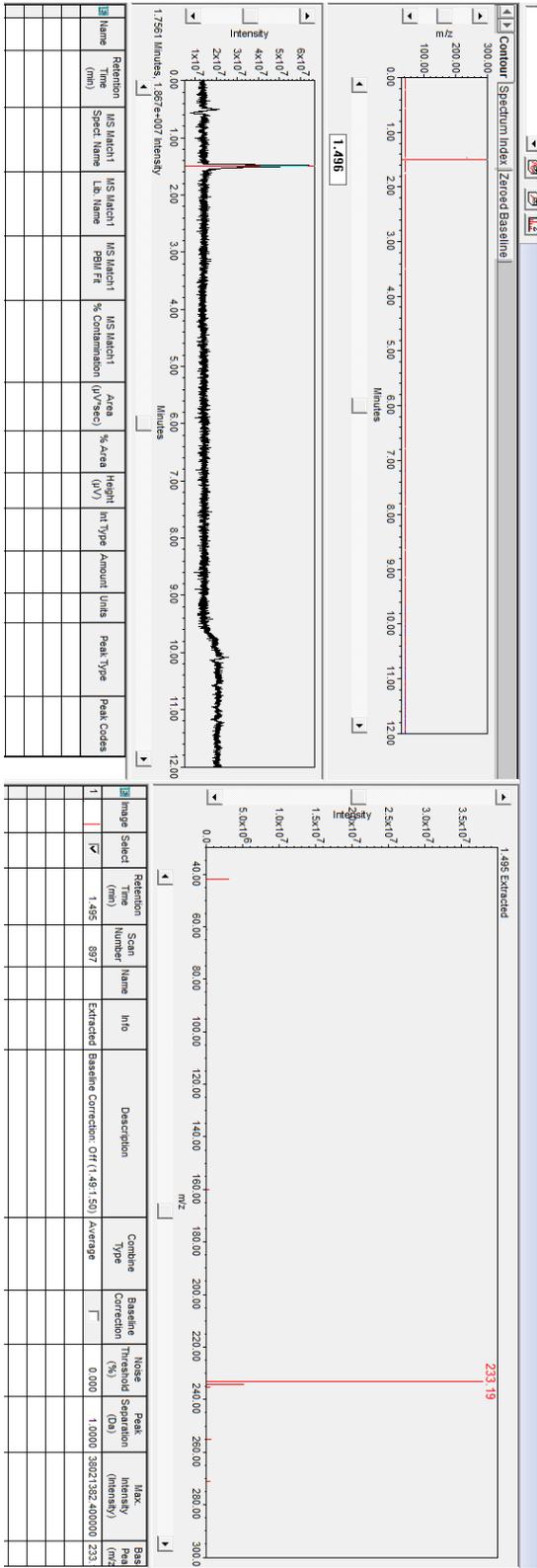


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.478	559742	100.00	254738	bb			Unknown

Zoom in of integrated peak above:

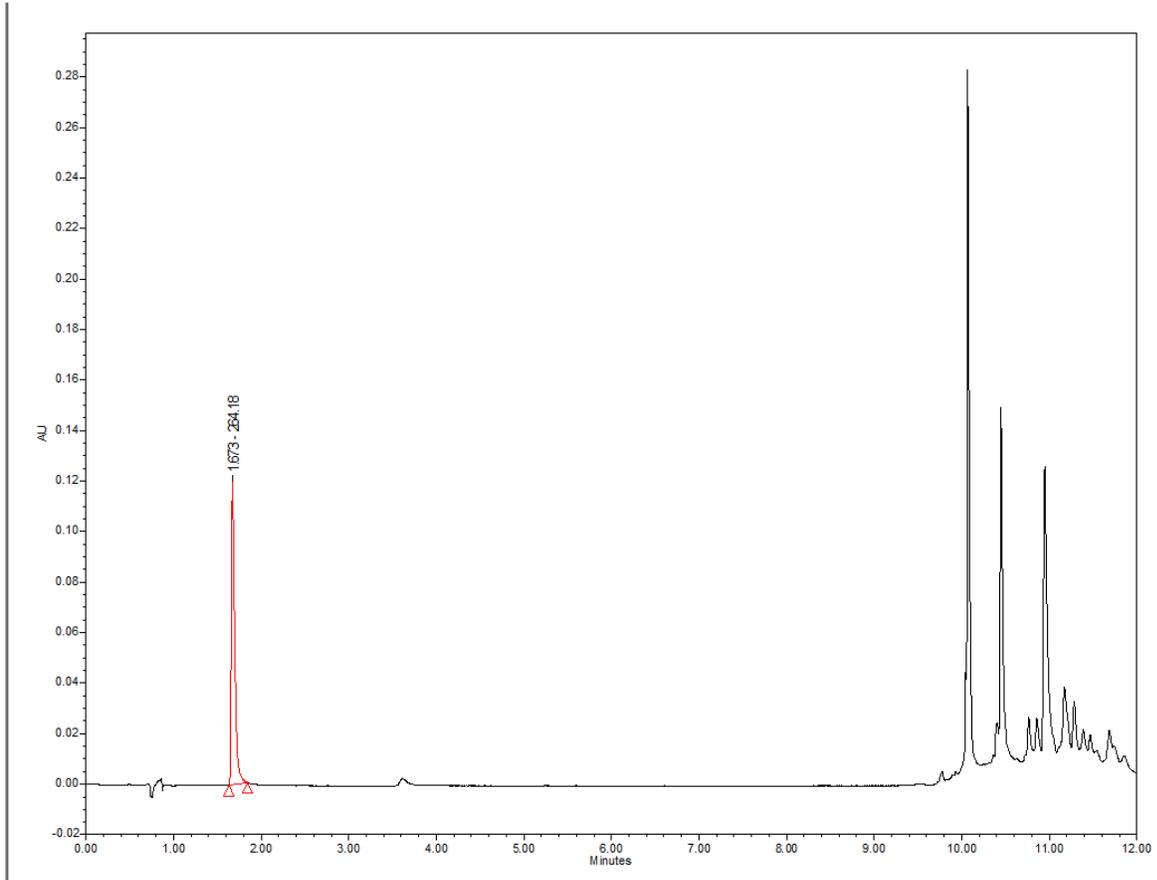


4 UVA Mass Spectrum



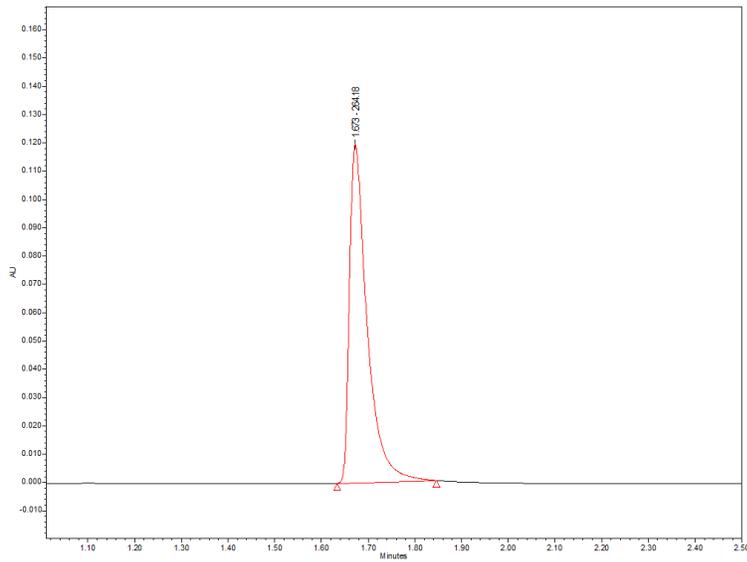
Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity
1.495	897		Extracted	Baseline Correction Off (1.49 1.50)	Average		0.000	1.0000	38021382.400000

5 LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.673	315272	100.00	119647	bb			Unknown

Zoom in of integrated peak shown above:



5 Mass Spectrum

Contour | Spectrum Index | Zeroed Baseline

1.897

1.897 Extended

264.17

1.8960 Minutes 2.531e+007 Intensity

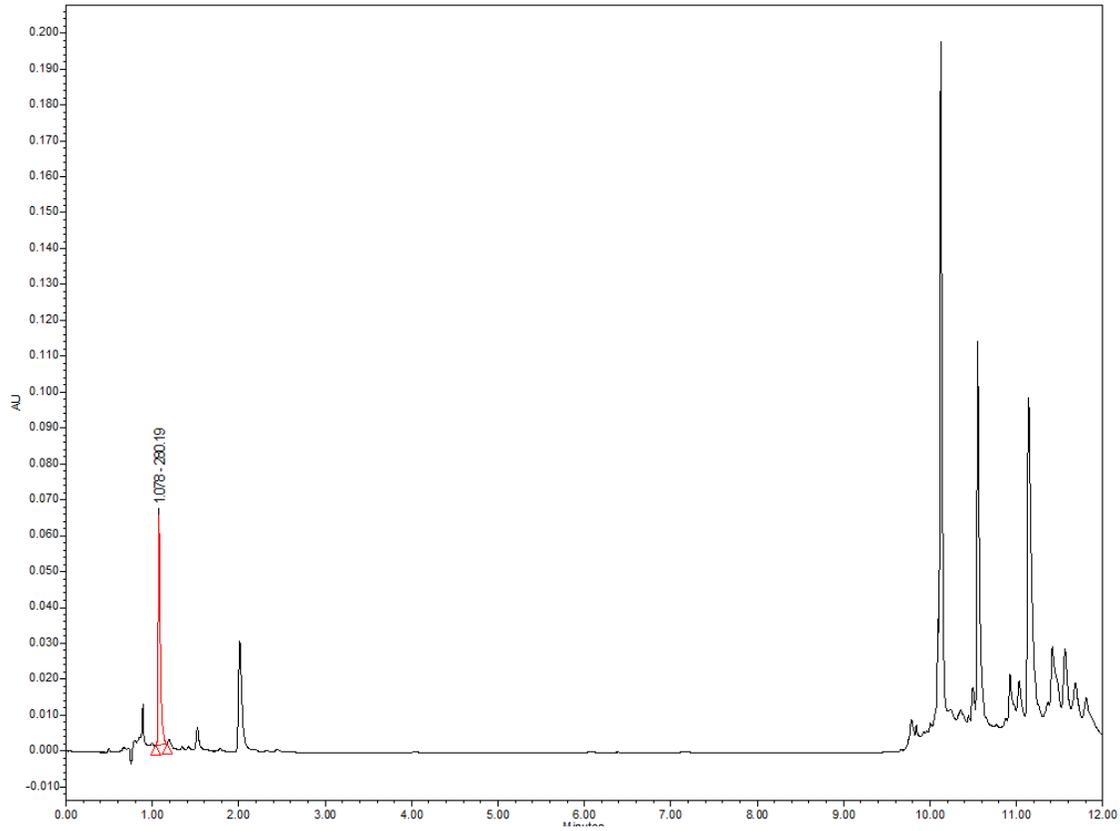
Name	Retention Time (min)	MS Match Speed Name	MS Match Lib Name	MS Match PPM Filt	MS Match % Contamination	Area (uV*sec)	% Area	Height (uV)	Int Type	Amount (units)	Peak Type	Peak Codes
	1.897											

1.897 Extended

Image	Select	Retention Time (min)	Samp Number	Name	Info	Description	Cache Type	Baseline Correction	Noise (%)	Peak Separation (Da)	Max. Intensity	PA (m)
1	<input checked="" type="checkbox"/>	1.897	1012		Extended Baseline Correction: Off (1.897, 1.89)		Average	<input type="checkbox"/>	0.000	1.0000	39733004.800000	25

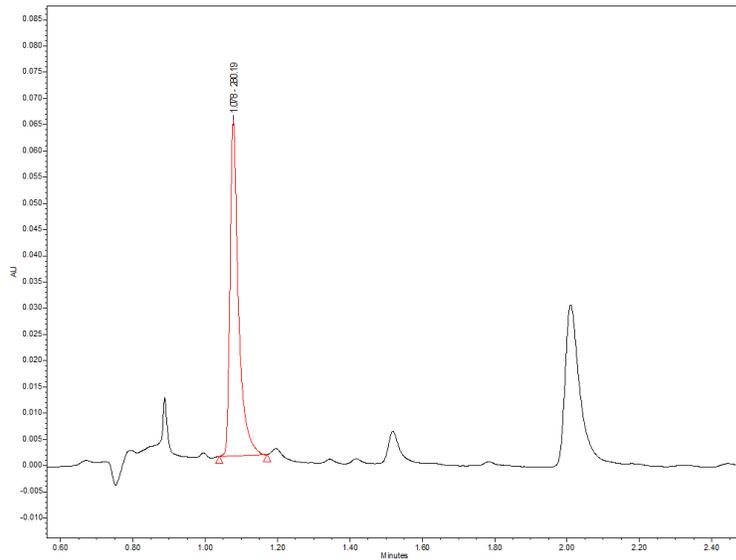
5 UV-A LC PDA Detector Data with Integrated Peak

Zoom In Close

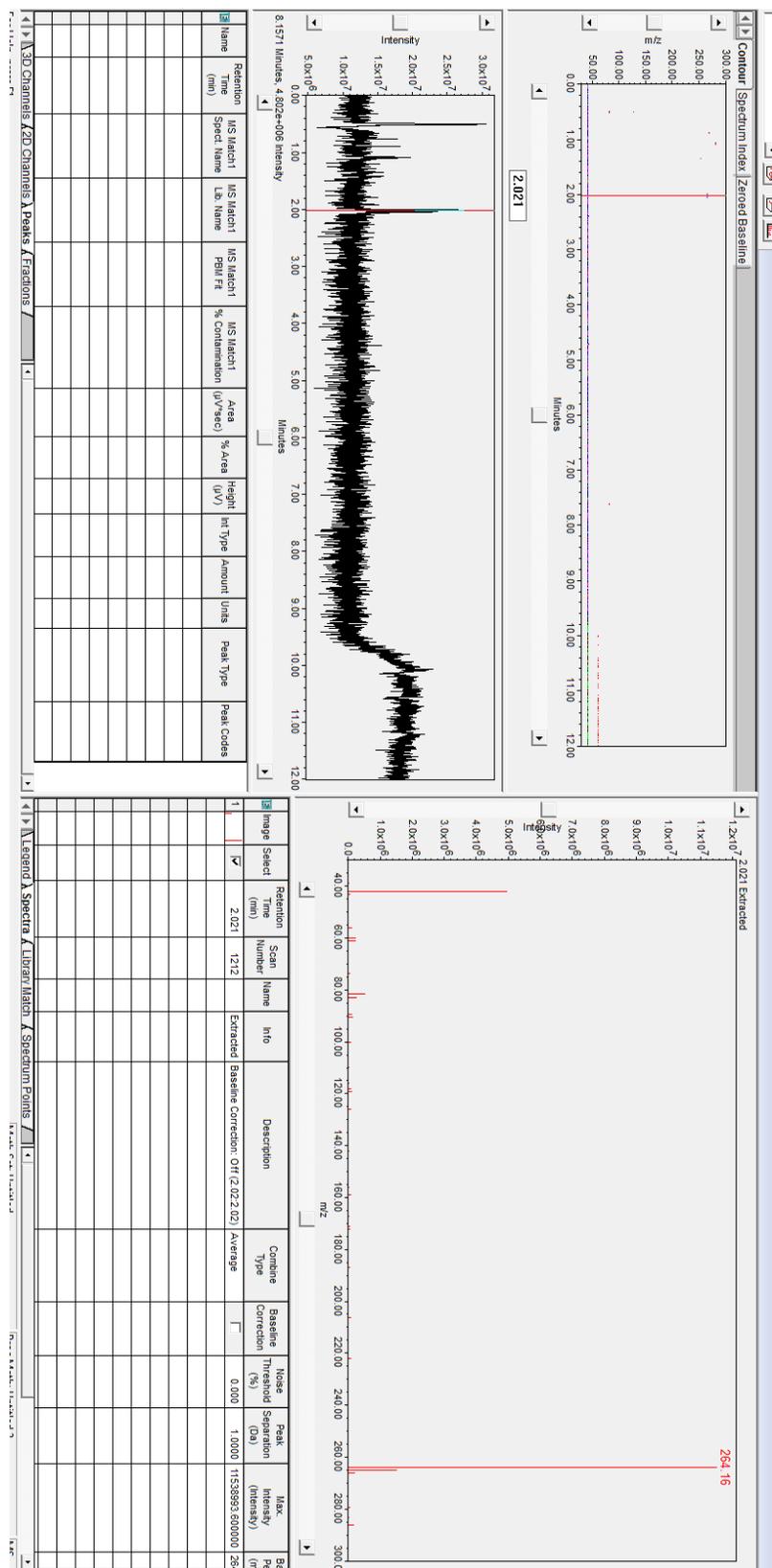


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.078	104654	100.00	64021	bb			Unknown

Zoom in on integrated peak shown above:



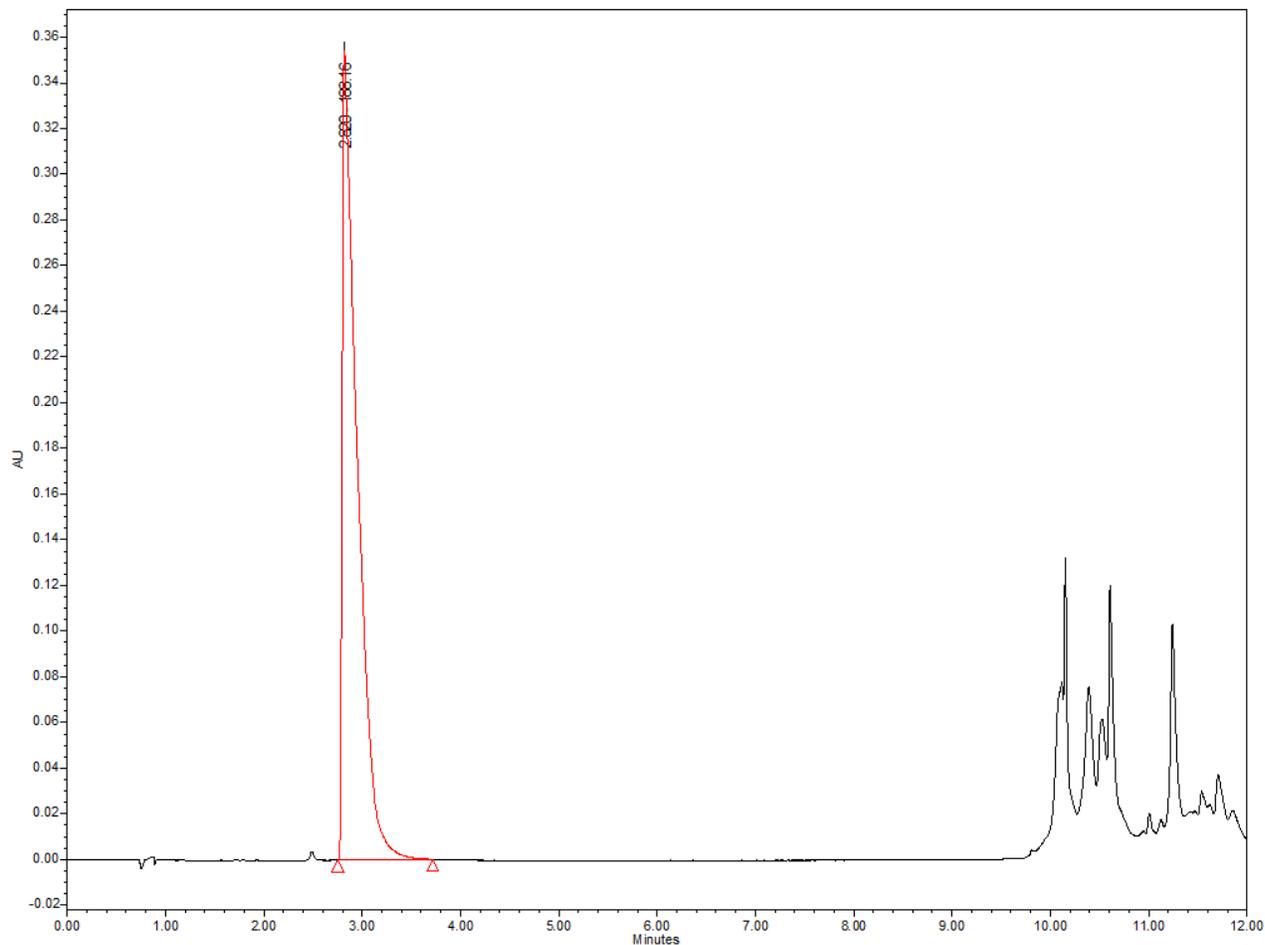
5 UVA Mass Spectrum



Retention (min)	MS Match1 Spect Name	MS Match1 Lab Name	MS Match1 PBD Fit	MS Match1 % Contamination	Area (µV*Sec)	% Area	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes
2.021												

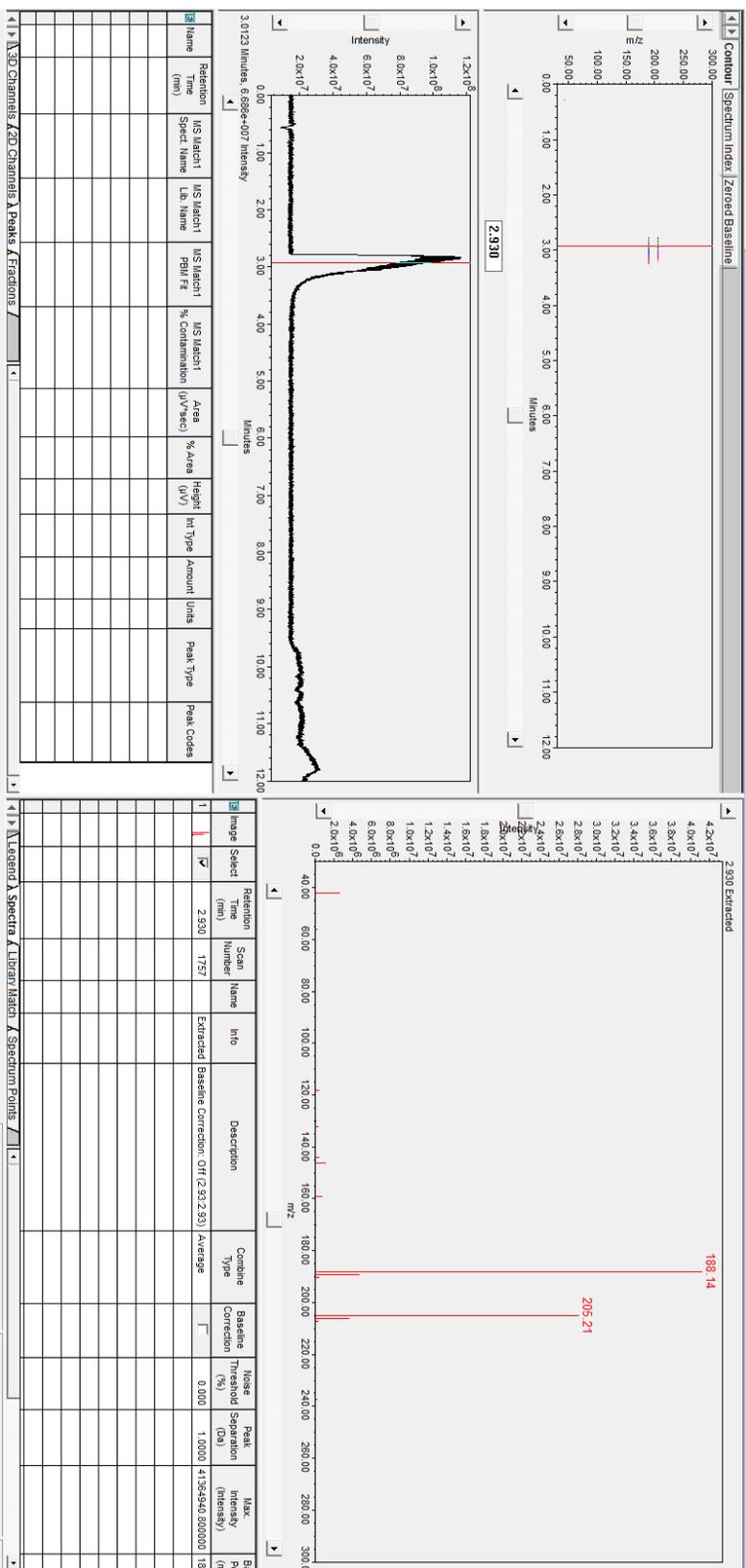
Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (bp)	Max Intensity	Peak ID
2.021	1212			Extracted Baseline Correction Off (2.022.02)	Average		0.000	1.0000	11538953.600000	264.16

3 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.820	3782818	100.00	354418	bb			Unknown

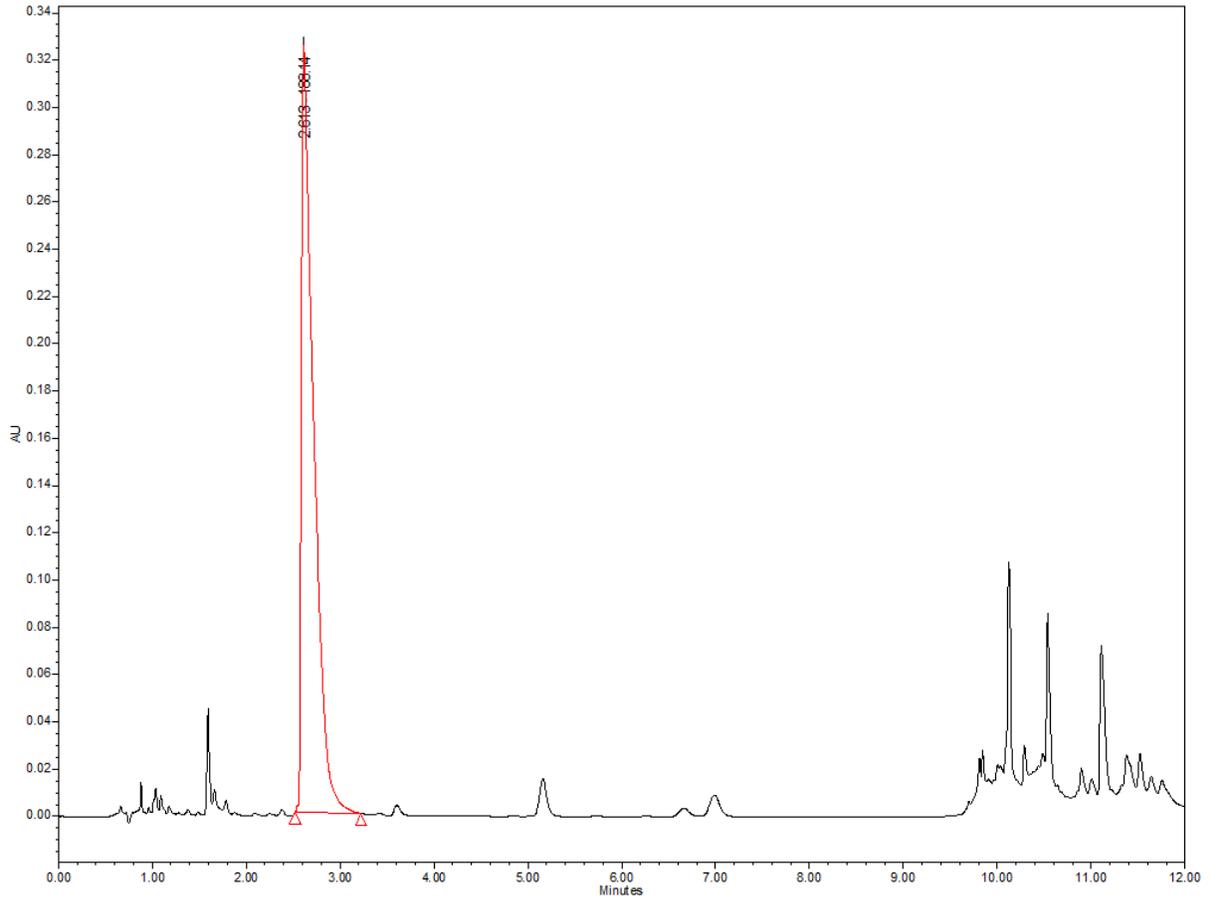
3 Mass Spectrum



Name	Retention Time (min)	MIS Match1 Spect. Name	MIS Match1 Lib. Name	MIS Match1 PDB Fit	MIS Match1 % Contribution	Area (uV*sec)	% Area	Height (uV)	Int Type	Amount	Units	Peak Type	Peak Codes

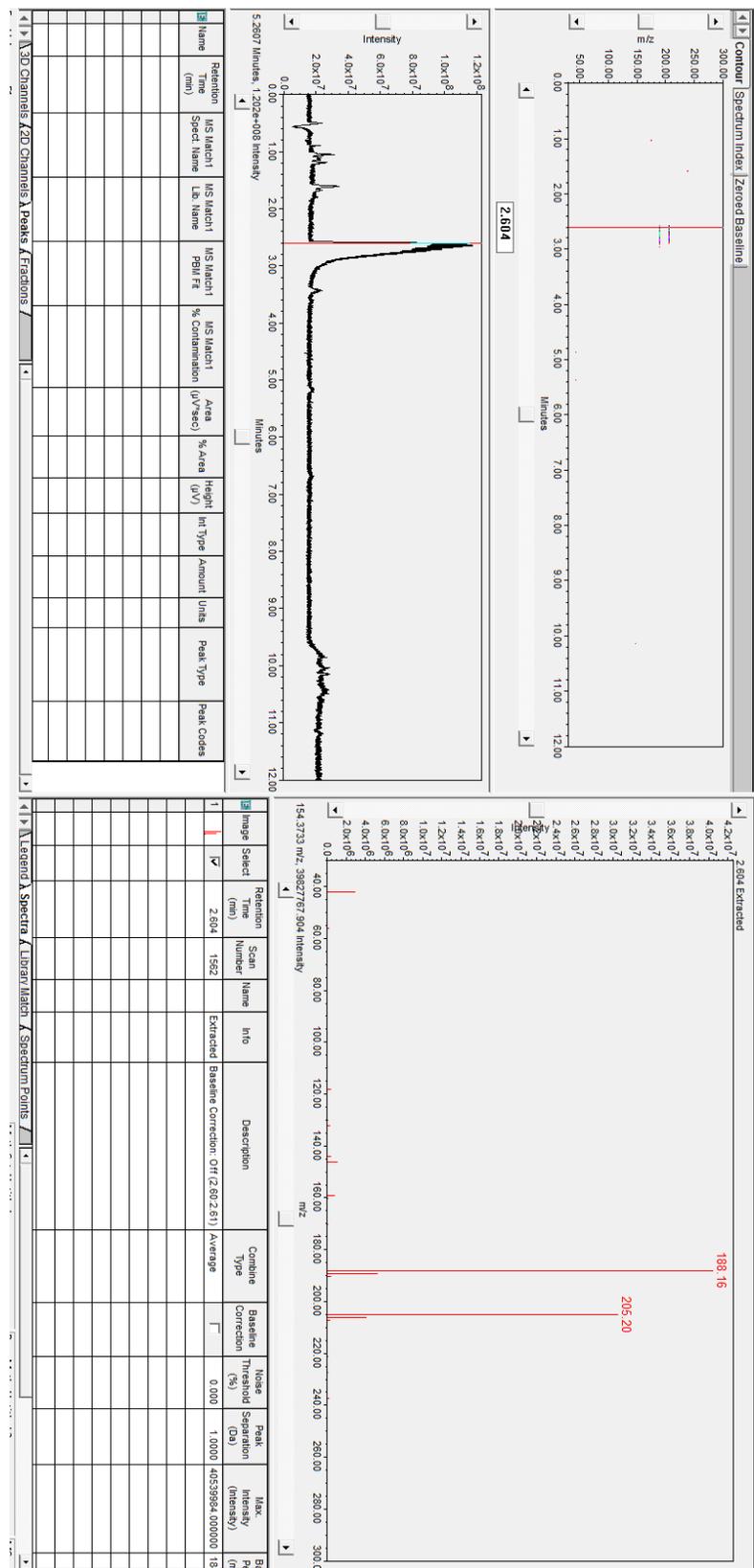
Image Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Rf
<input checked="" type="checkbox"/>	2.930	1757			Extracted	Average		0.000	1.0000	4158490.80000	188

3 UV-A LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.613	2938355	100.00	324841	bb			Unknown

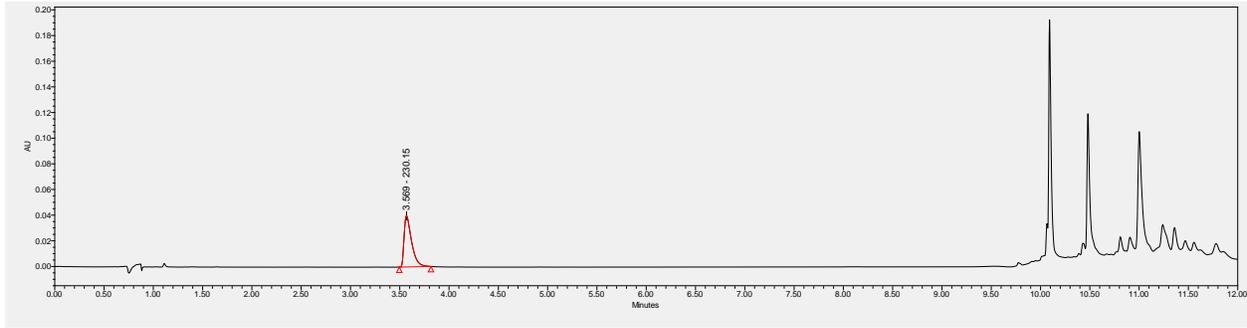
3 UVA Mass Spectrum



Retention Time (min)	US Match1 Spect Name	US Match1 LS Name	US Match1 BBU Fit	US Match1 % Contamination	Area (uVsec)	% Area (uV)	Height (uV)	IntType	Amount	Units	Peak Type	Peak Codes
2.604												

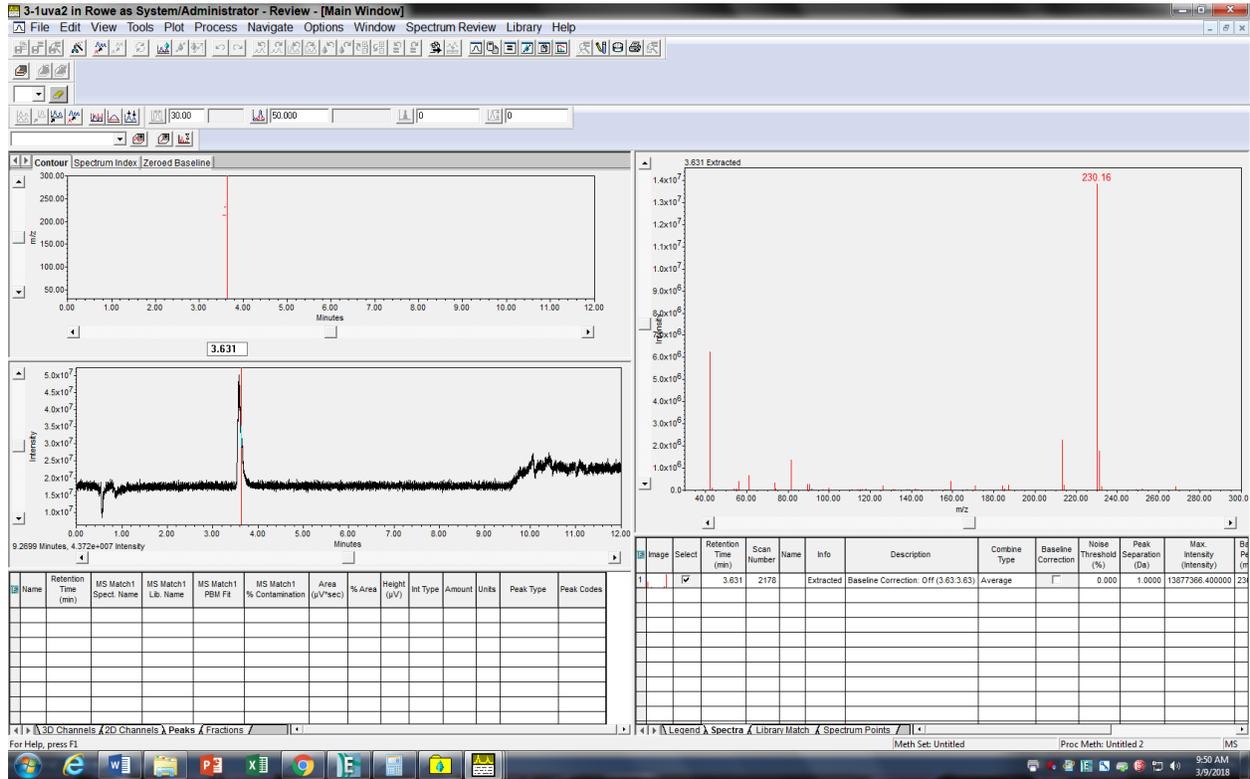
Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	PK (f)
2.604	1562		Extracted	Baseline Correction: Off (2.602.81)	Average		0.000	1.0000	4053984.000000	18

3-1 UV-A LC PDA Detector Data with Integrated Peak

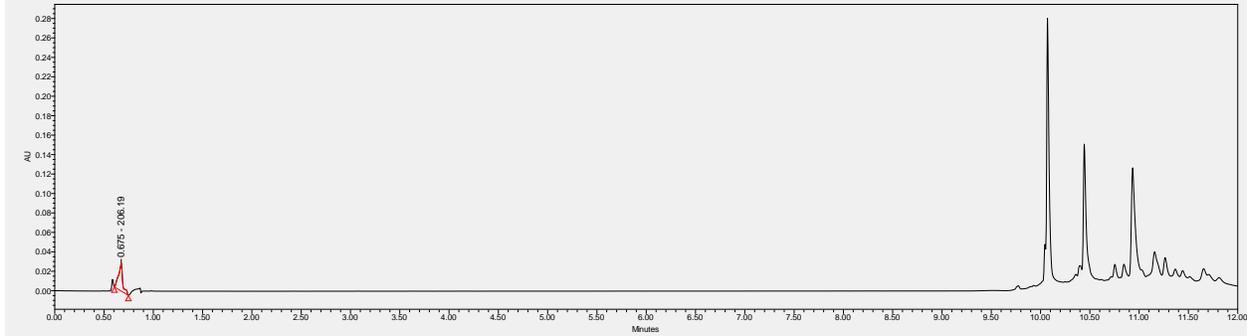


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		3.569	210426	100.00	39944	bb			Unknown

3-1 UVA Mass Spectrum

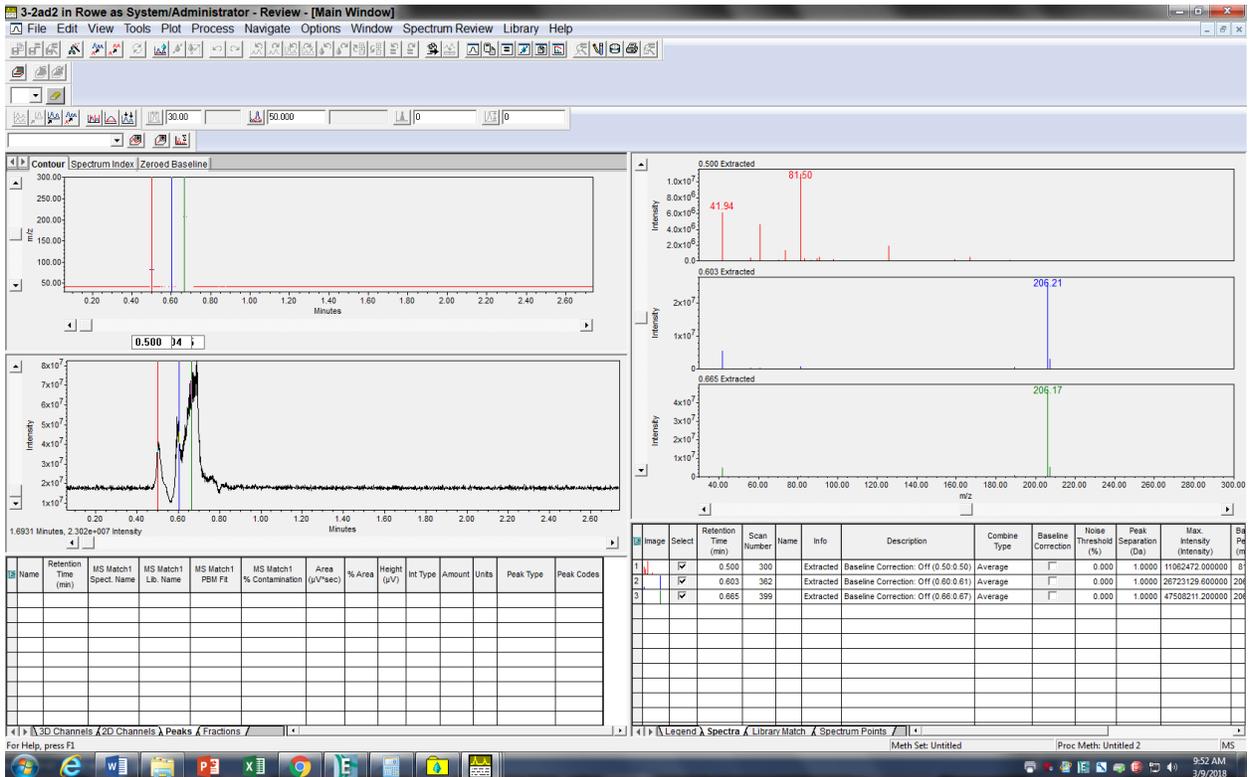


3-2 LC PDA Detector Data with Integrated Peak

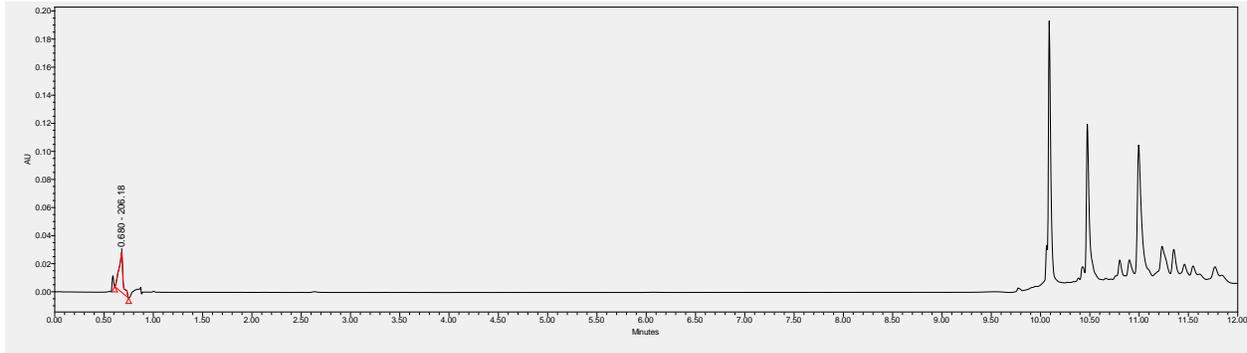


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.675	83012	100.00	28505	bb			Unknown

3-2 Mass Spectrum

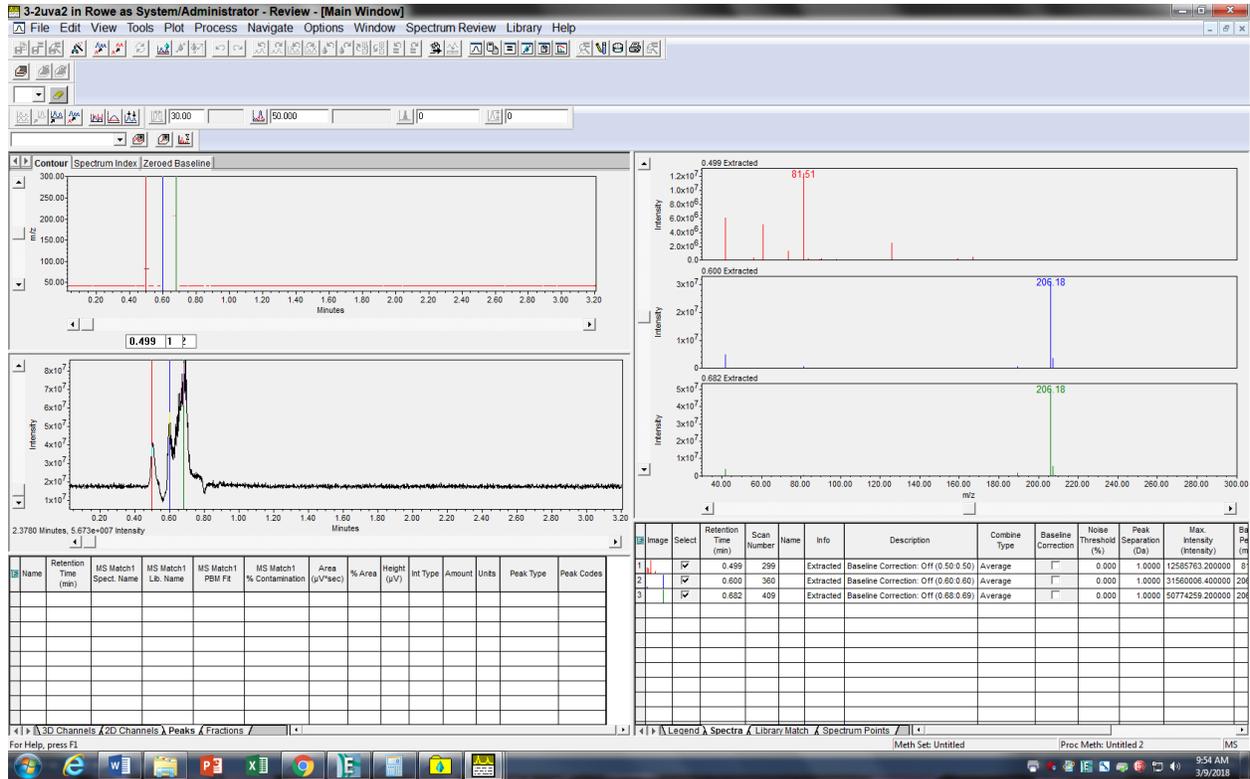


3-2 UV-A LC PDA Detector Data with Integrated Peak

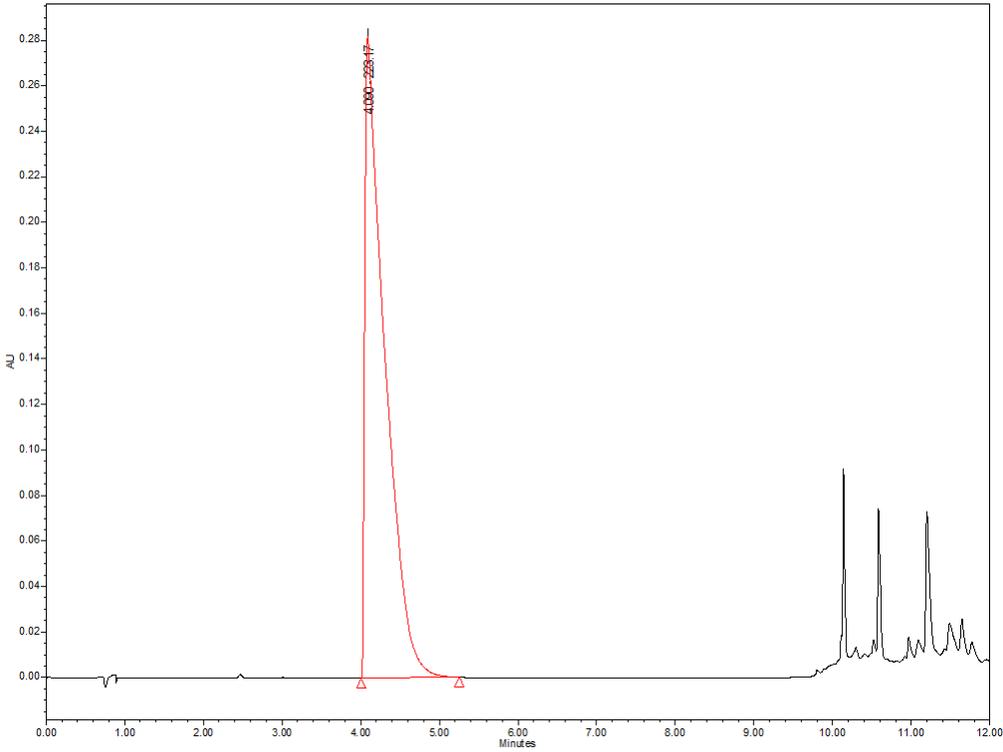


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.680	83099	100.00	28441	bb			Unknown

3-2 UVA Mass Spectrum

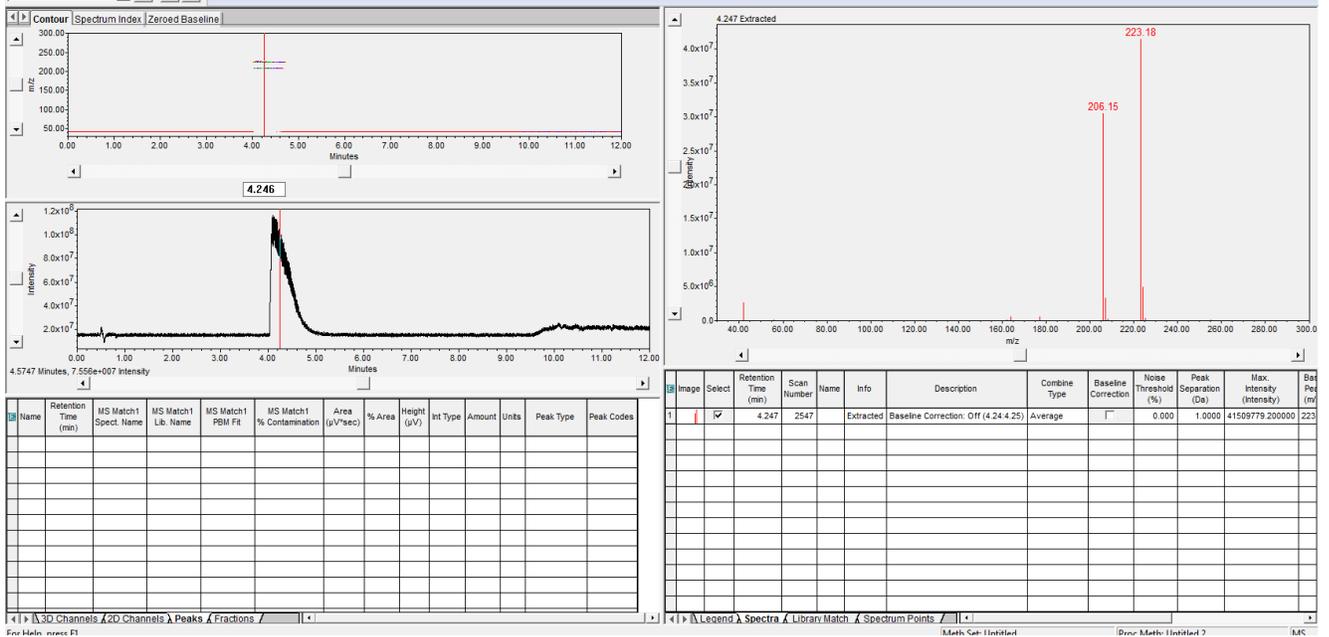


3-3 LC PDA Detector Data with Integrated Peak

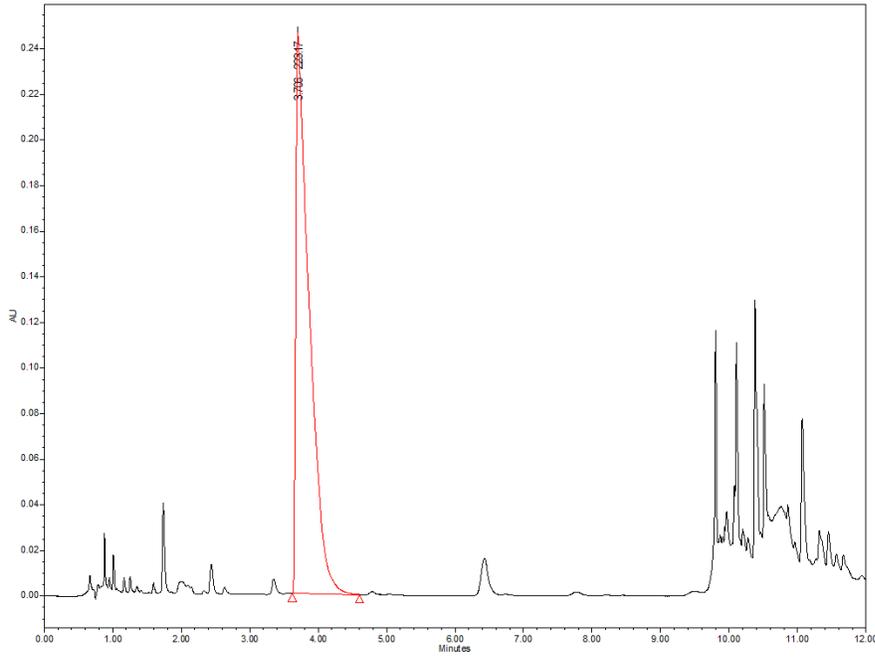


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	4.090	4951822	100.00	281952	bb			Unknown

3-3 Mass Spectrum

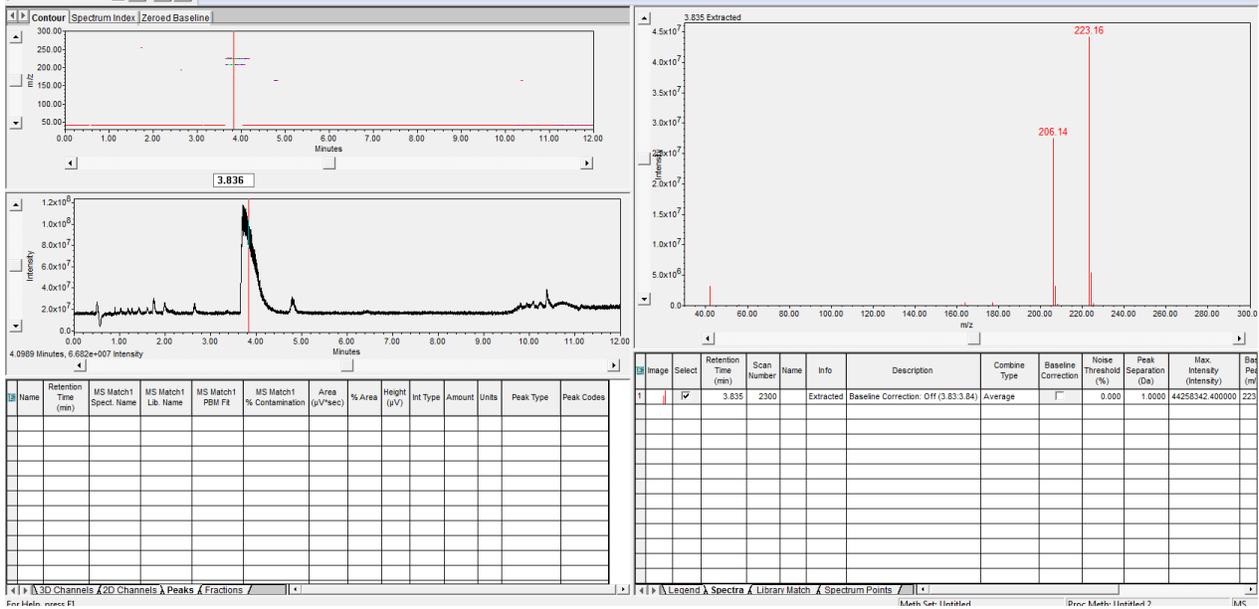


3-3 UV-A LC PDA Detector Data with Integrated Peak

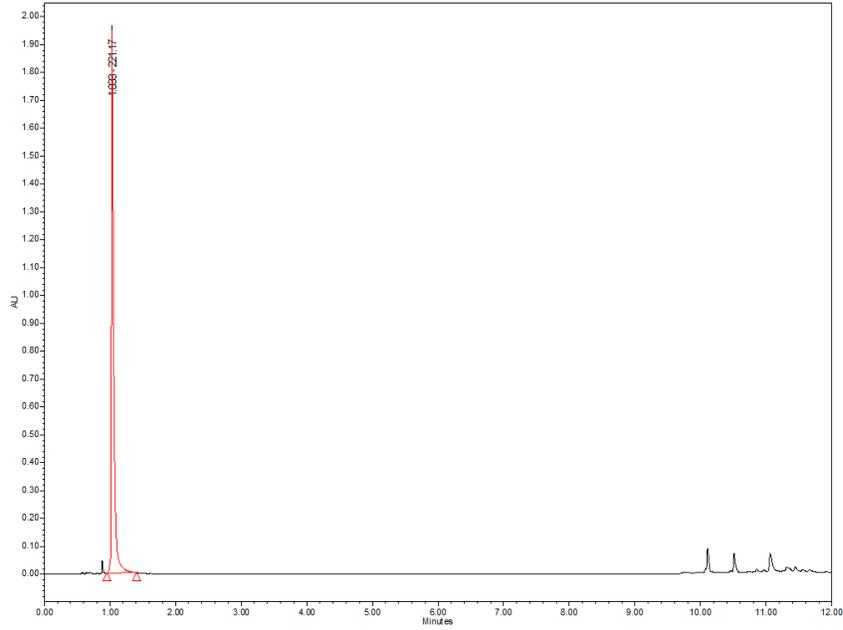


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		3.706	3346975	100.00	245919	bb			Unknown

3-3 UVA Mass Spectrum

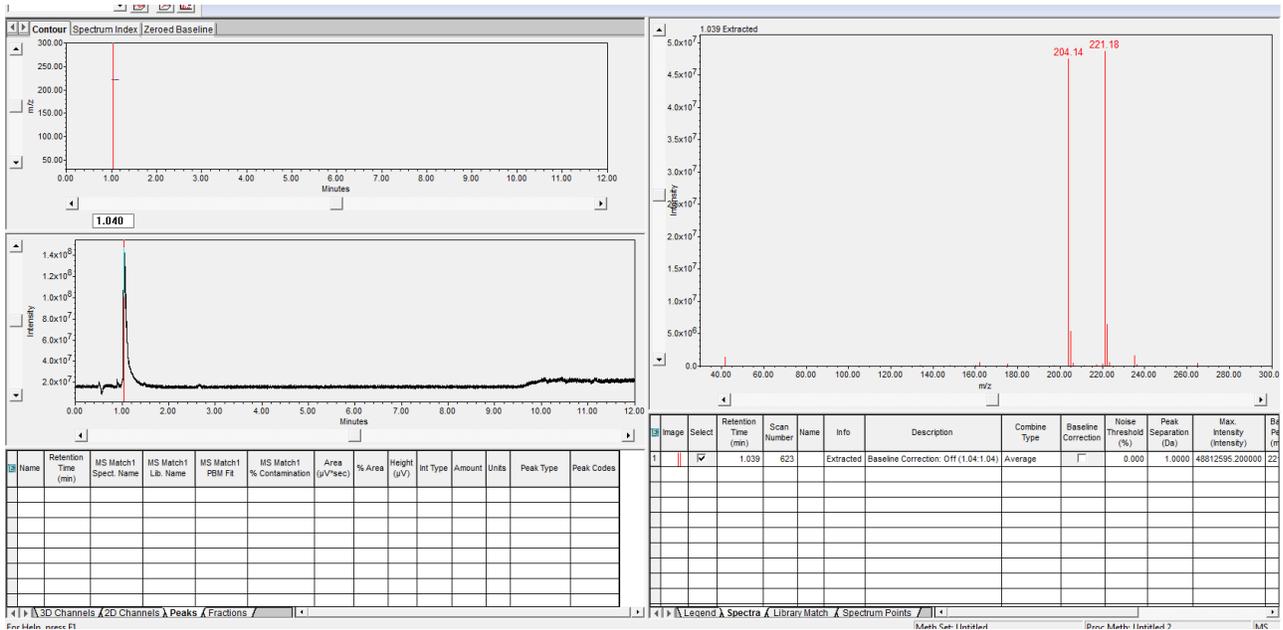


3-4 UV-A LC PDA Detector Data with Integrated Peak

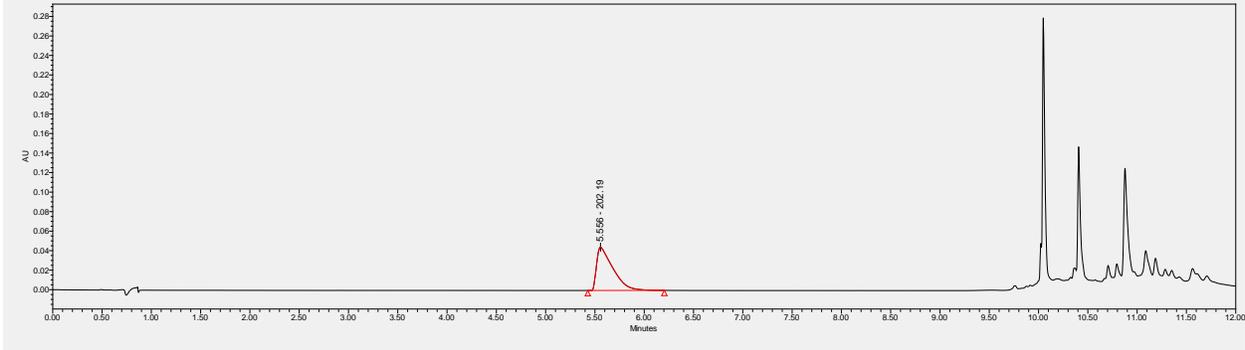


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.033	4802318	100.00	1946698	bb			Unknown

3-4 UVA Mass Spectrum

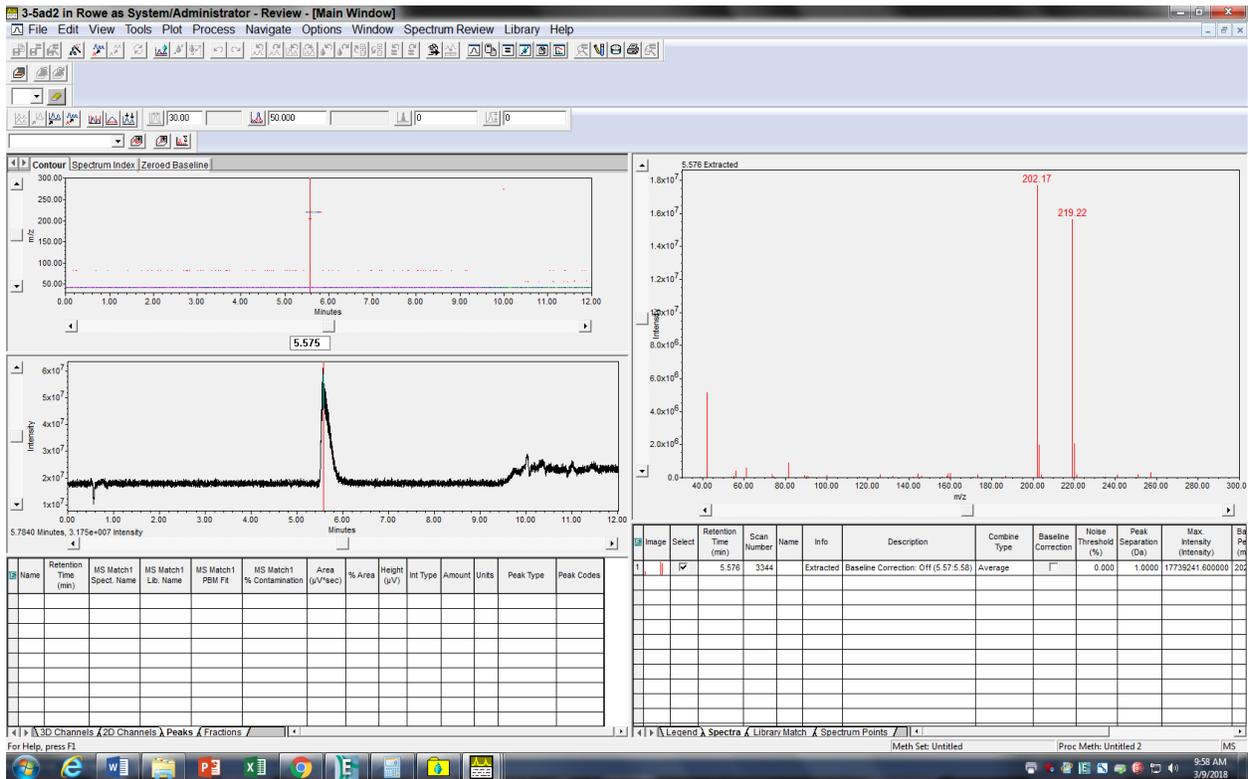


3-5 LC PDA Detector Data with Integrated Peak

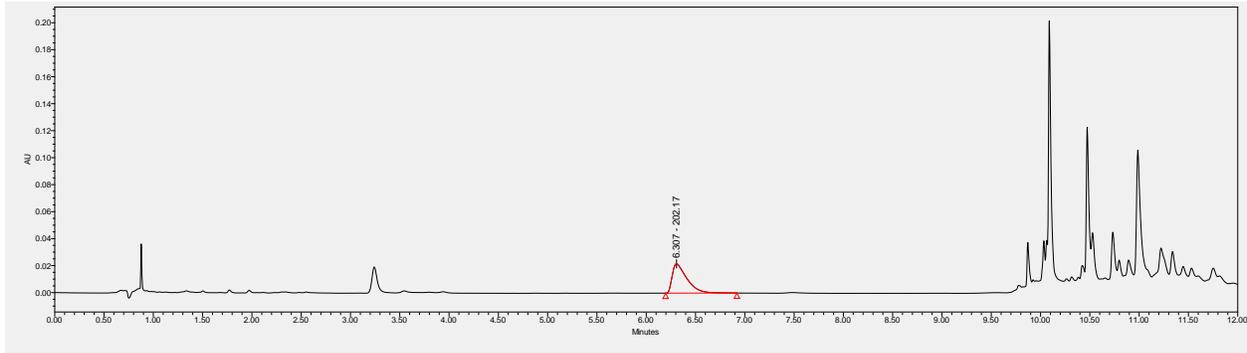


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	5.556	507269	100.00	44401	bb			Unknown

3-5 Mass Spectrum

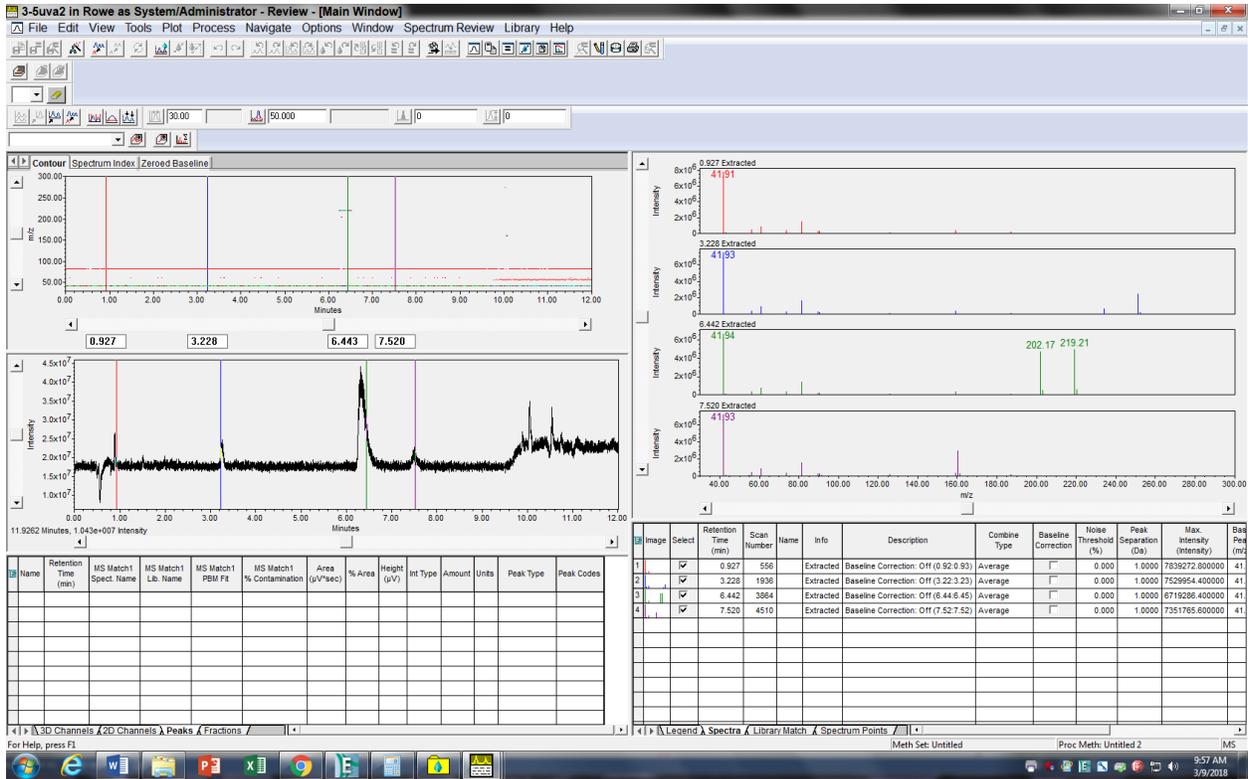


3-5 UV-A LC PDA Detector Data with Integrated Peak

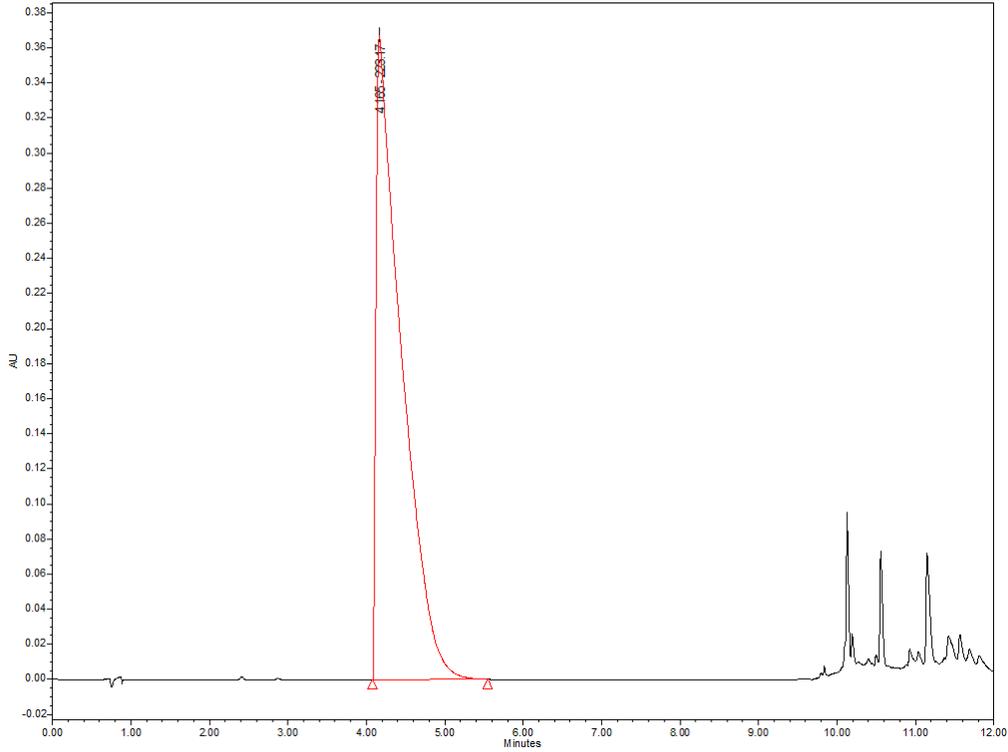


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		6.307	222723	100.00	21758	bb			Unknown

3-5 UVA Mass Spectrum

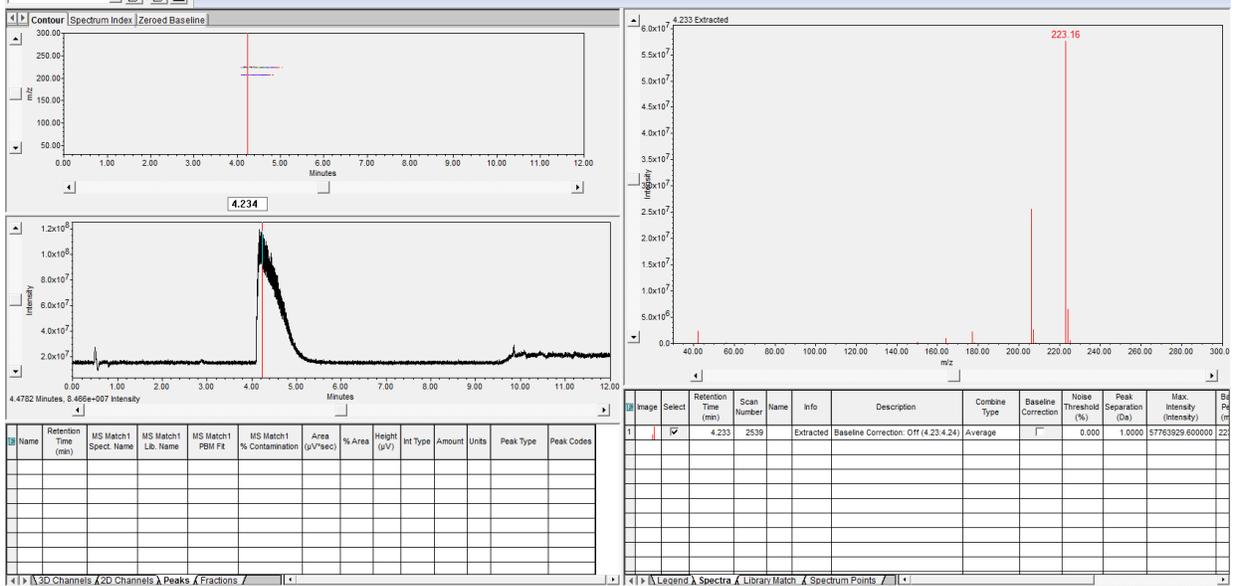


3-6 LC PDA Detector Data with Integrated Peak

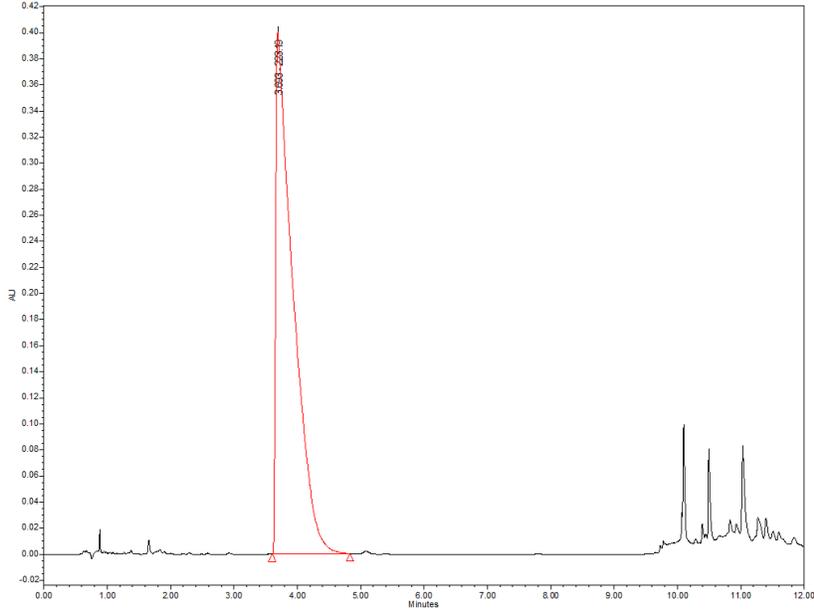


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.165	8174336	100.00	367331	bb			Unknown

3-6 Mass Spectrum

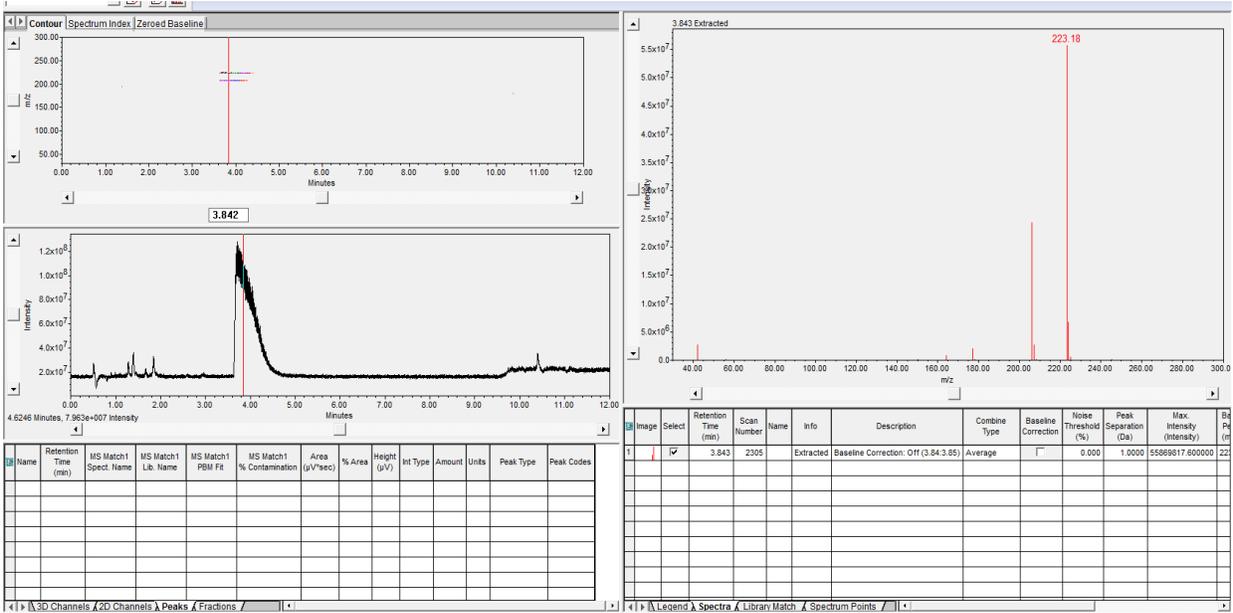


3-6 UV-A LC PDA Detector Data with Integrated Peak

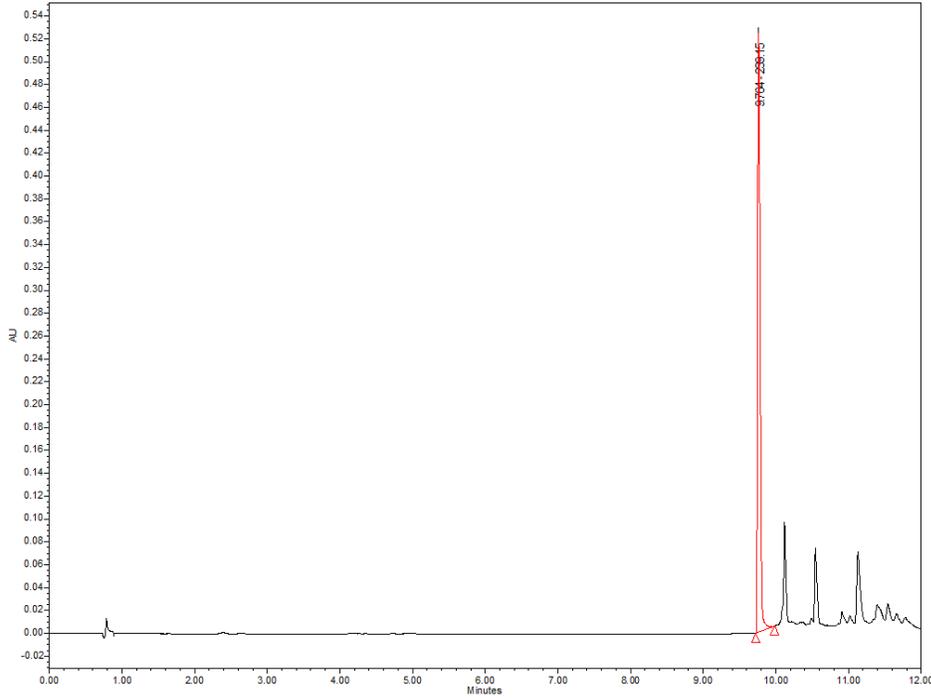


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		3.693	7561231	100.00	400448	bb			Unknown

3-6 UVA Mass Spectrum



3-7 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		9.764	1219395	100.00	524181	bb			Unknown

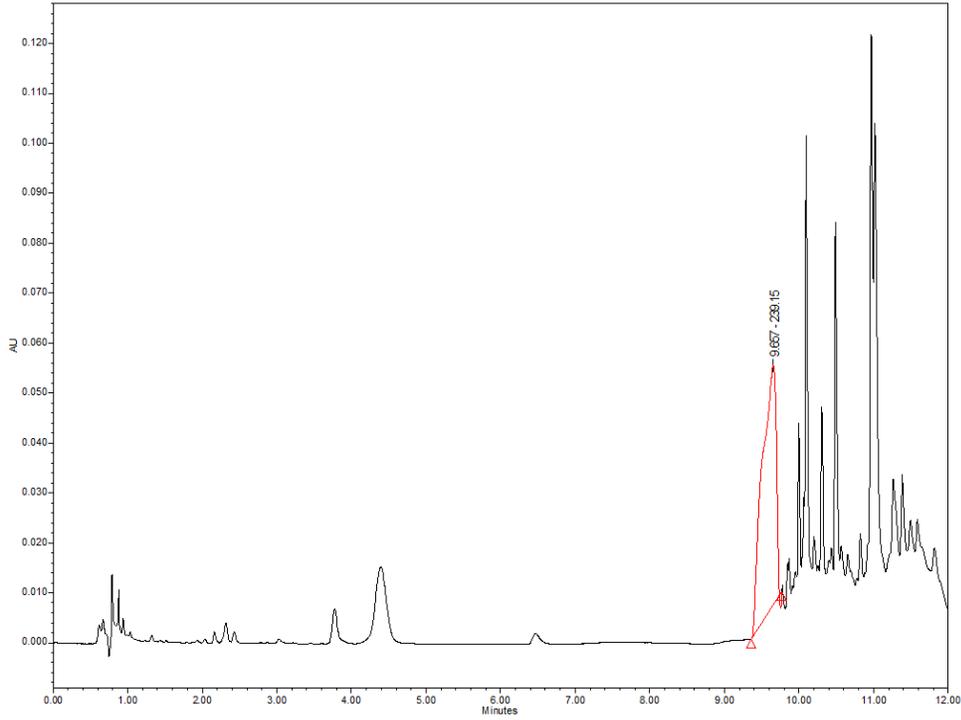
3-7 Mass Spectrum

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity	Pe (m)
1	<input checked="" type="checkbox"/>	9.792	5873	Extracted	Baseline Correction: Off (9.79:9.80)	Average		0.000	1.0000	70280307.200000	239	

Name	Retention Time (min)	MS Match1 Spect. Name	MS Match1 Lib. Name	MS Match1 PBM Fit	MS Match1 % Contamination	Area (µV*sec)	% Area	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes

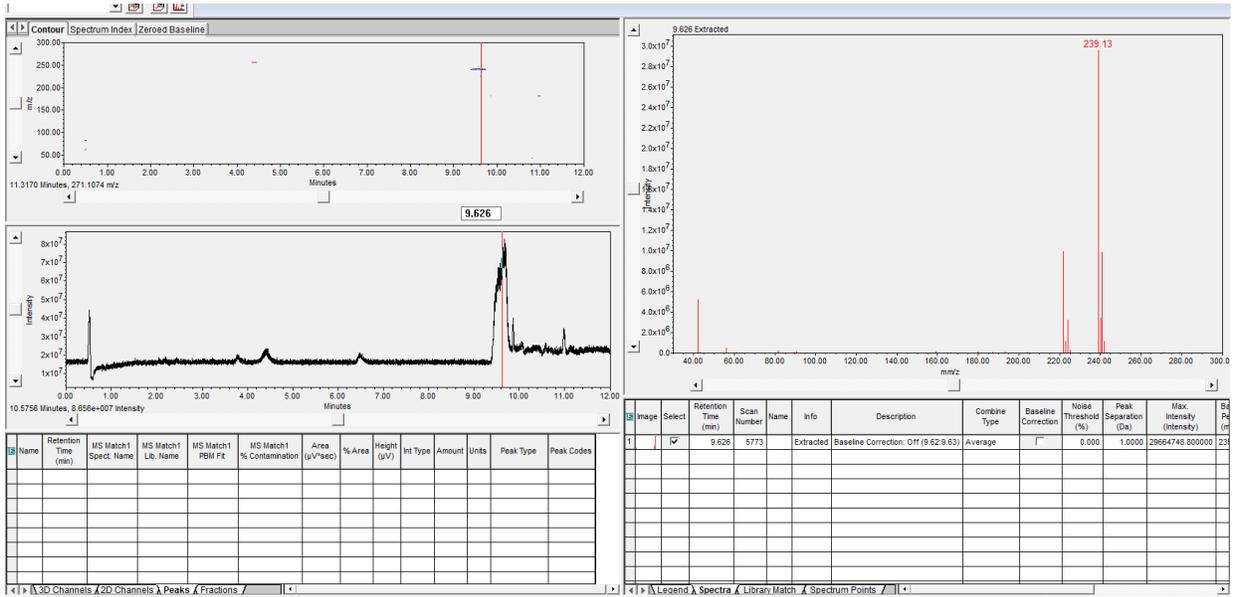
Meth Set: Untitled Proc Meth: Untitled 2 IMS

3-7 UV-A LC PDA Detector Data with Integrated Peak

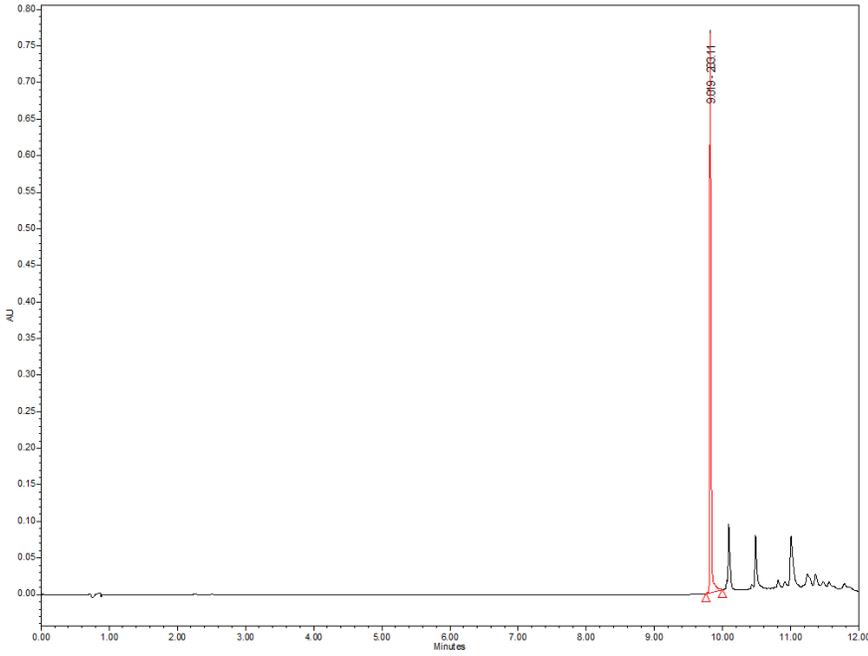


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		9.657	635231	100.00	47919	bb			Unknown

3-7 UVA Mass Spectrum



3-8 LC PDA Detector Data with Integrated Peak

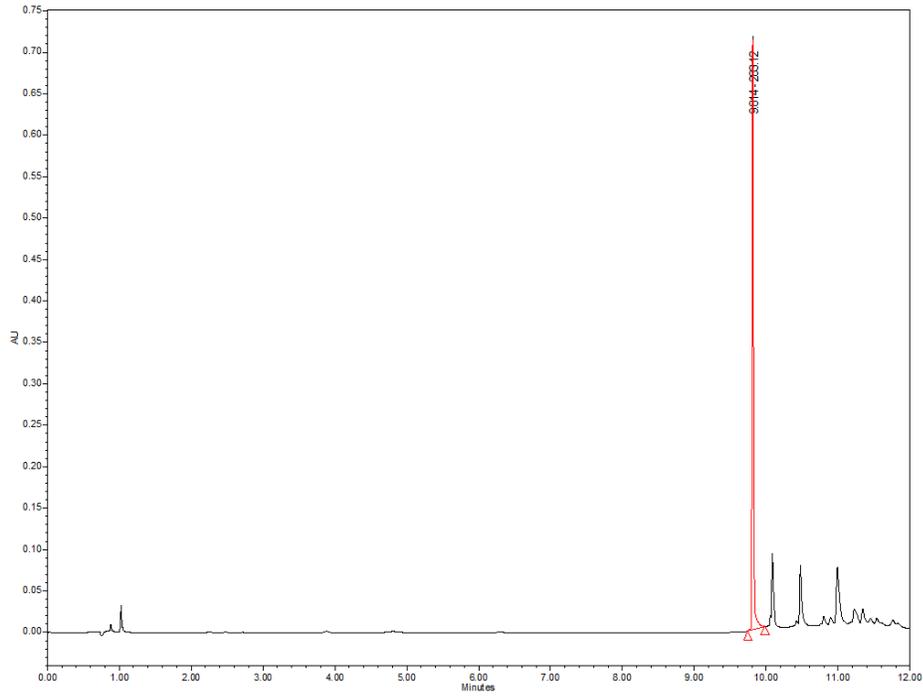


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		9.819	1146865	100.00	765053	bb			Unknown

3-8 Mass Spectrum

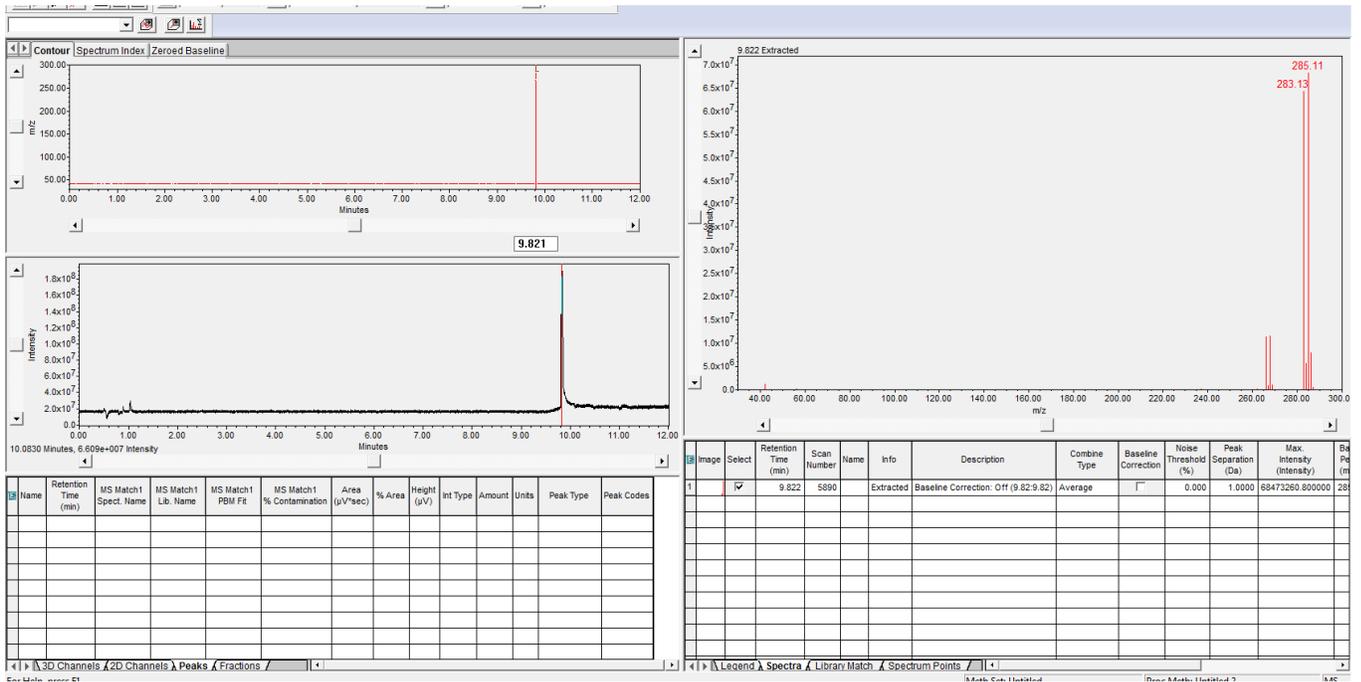
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	B4 P4 (Int)
1	<input checked="" type="checkbox"/>	9.824	5892	Extracted	Baseline Correction: Off (9.82:9.83)	Average	<input type="checkbox"/>	0.000	1.0000	65217907.200000	283.12	

3-8 UV-A LC PDA Detector Data with Integrated Peak

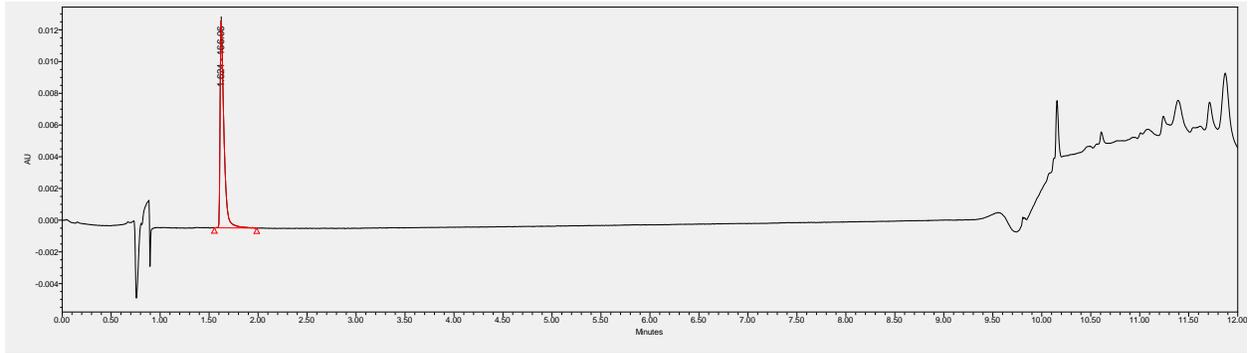


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		9.814	1071974	100.00	712569	bb			Unknown

3-8 UVA Mass Spectrum

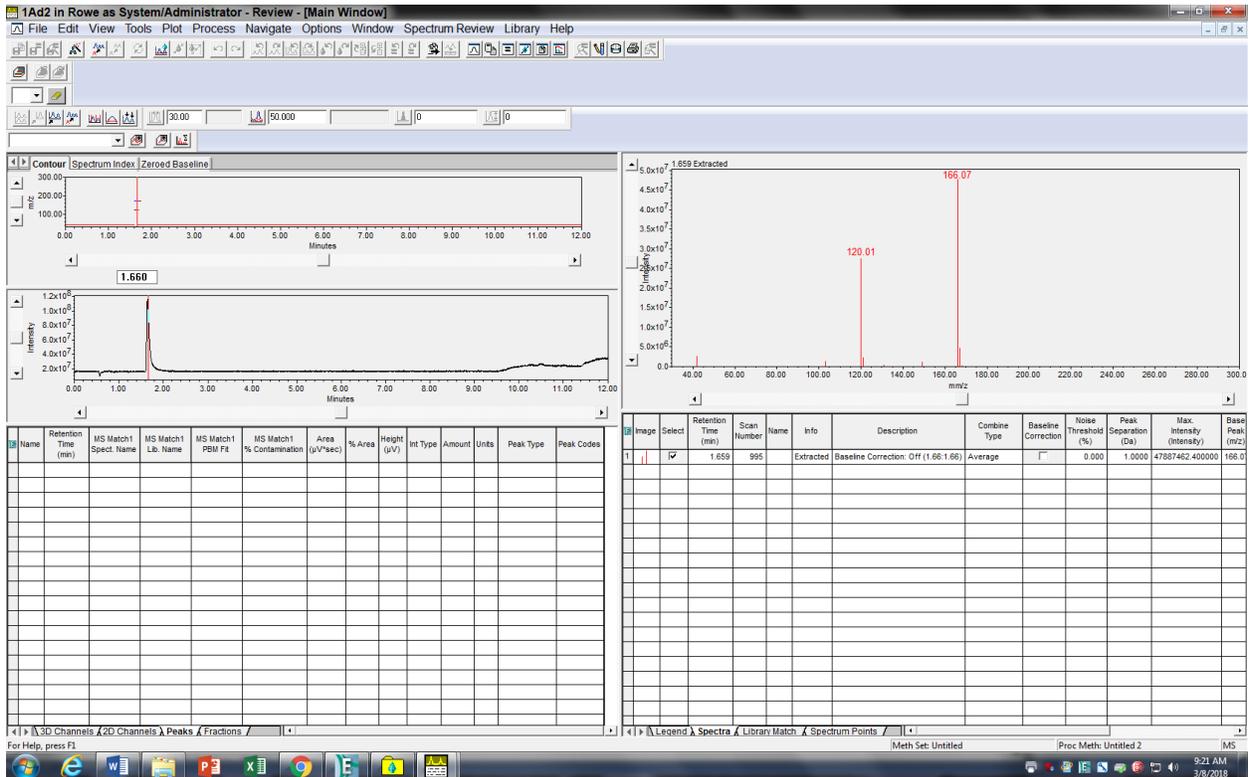


1 LC PDA Detector Data with Integrated Peak

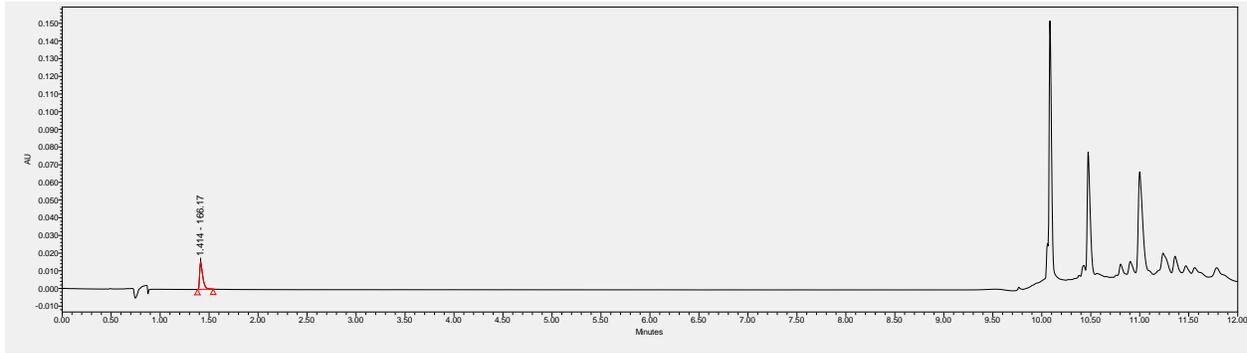


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.624	35449	100.00	13046	bb			Unknown

1 Mass Spectrum

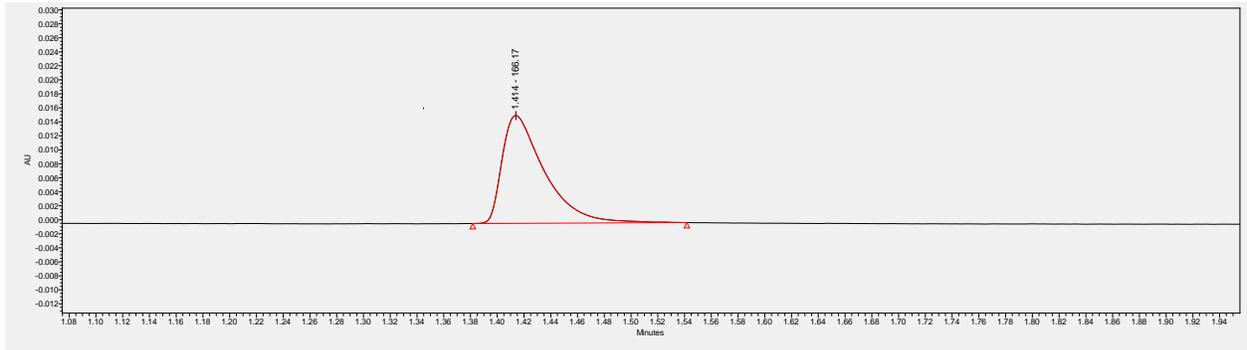


1 UV-B LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.414	33814	100.00	15412	bb			Unknown

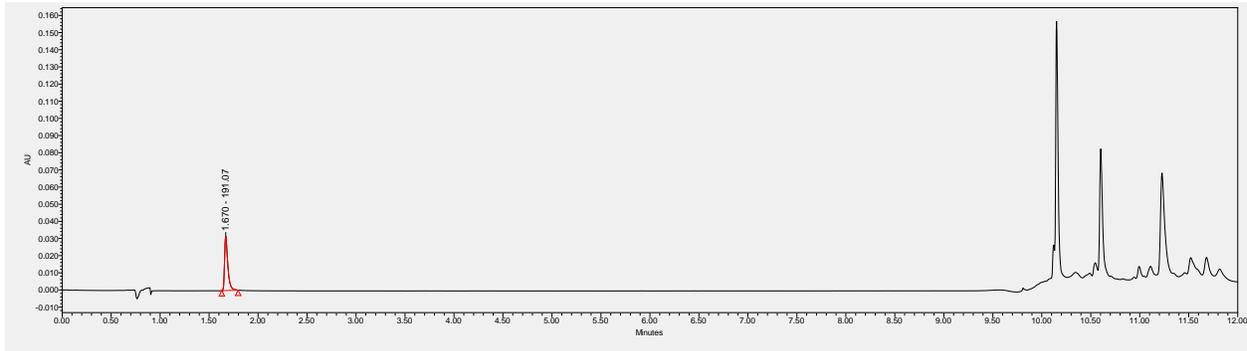
Zoom in of integrated peak shown above:



1 UVB Mass Spectrum

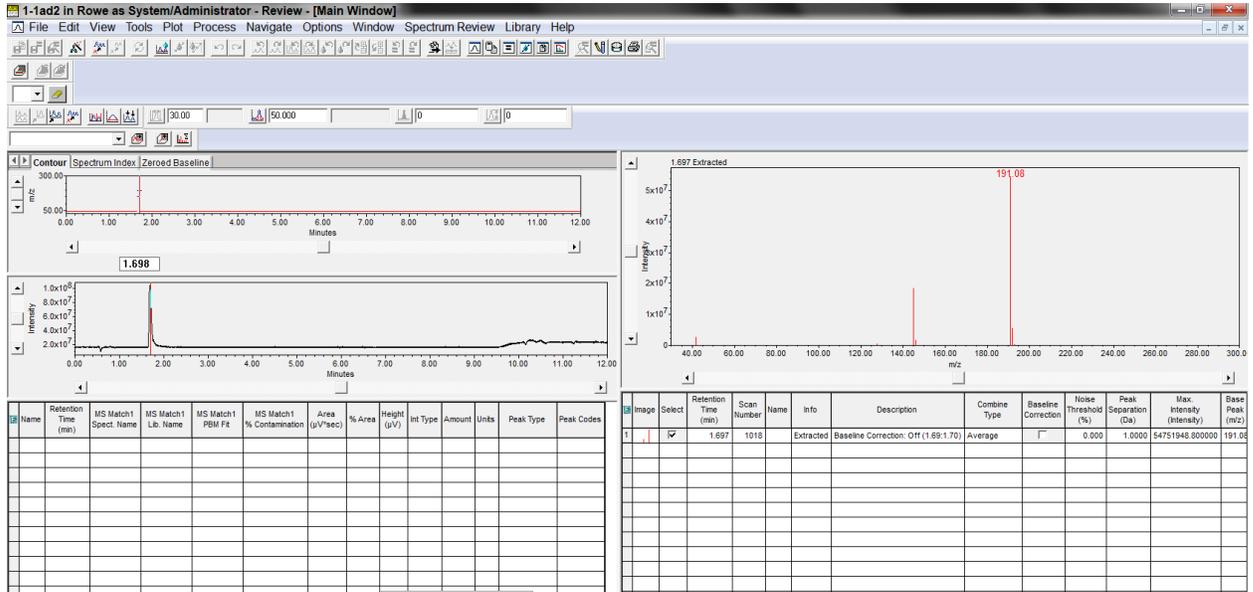
Name	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Base Peak (m/z)
1	1.427	856	Extracted		Baseline Correction: Off (1.421-1.43)	Average		0.000	1.0000	15319929.600000	166.1

1-1 LC PDA Detector Data with Integrated Peak

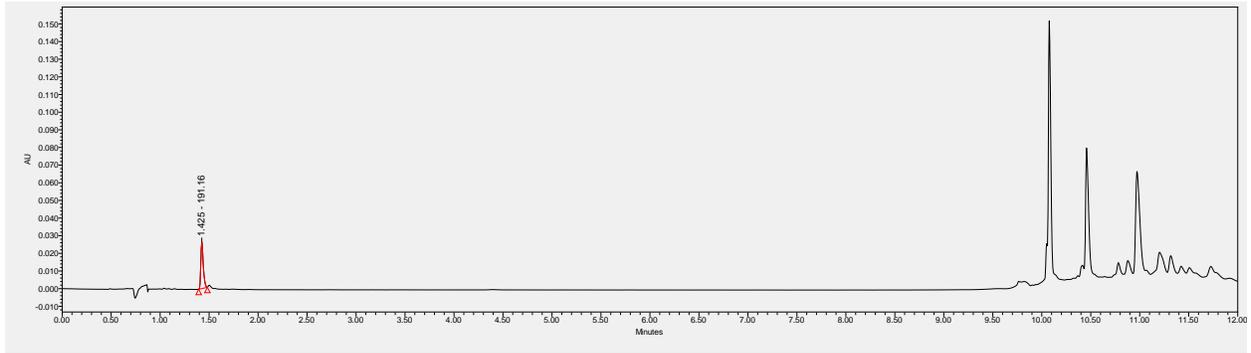


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.670	72903	100.00	31568	bb			Unknown

1-1 Mass Spectrum



1-1UV-B LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.425	46285	100.00	26404	bb			Unknown

1-1 UVB Mass Spectrum

1-1uvb2 in Rowe as System Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

3.5675 Minutes, 83.3183 m/z

1.465

1.466 Extracted

1.514 Extracted

191.15

147.15

130.07

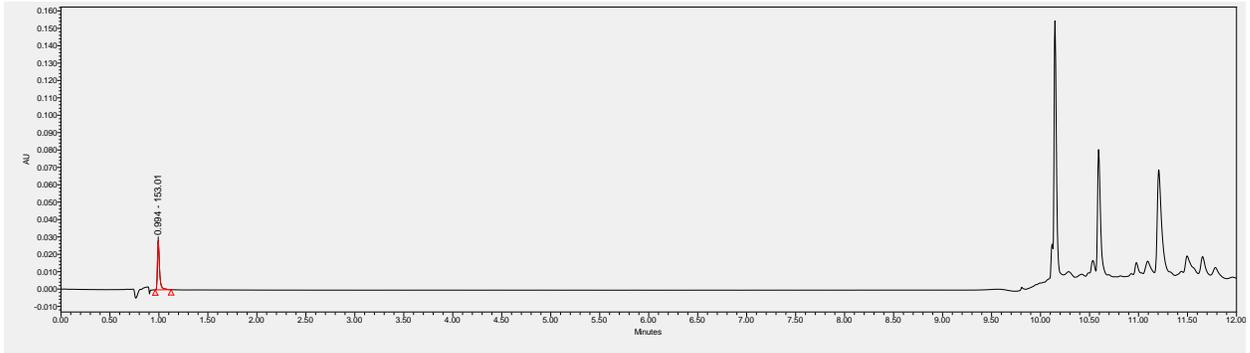
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.466	879	Extracted		Baseline Correction: Off (1.461-1.47)	Average	<input type="checkbox"/>	0.000	1.0000	27426576.000000	191.15
2	<input checked="" type="checkbox"/>	1.514	968	Extracted		Baseline Correction: Off (1.511-1.52)	Average	<input type="checkbox"/>	0.000	1.0000	17642296.400000	147.15

For Help, press F1

Meth Set: Untitled Proc Meth: Untitled 2 MS

9:43 AM 3/8/2018

1-3 LC PDA Detector Data with Integrated Peak

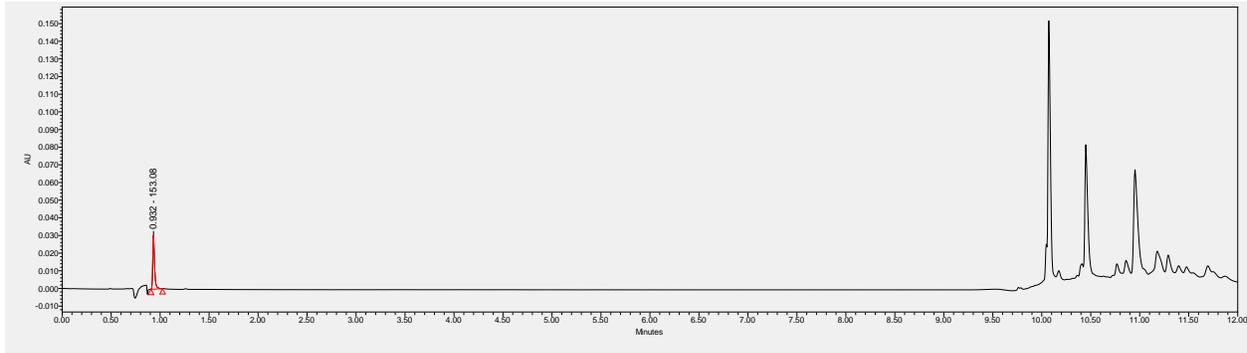


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.994	41530	100.00	28142	bb			Unknown

1-3 Mass Spectrum

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.000	600	Extracted		Baseline Correction: Off (1.00:1.00)	Average	<input type="checkbox"/>	0.000	1.0000	44905100.8000000	153.02

1-3 UV-B LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.932	39169	100.00	30526	bb			Unknown

1-3 UVB Mass Spectrum

1-3uvb2 in Row as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour | Spectrum Index | Zeroed Baseline

m/z 300.00 50.00 0.00 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00

0.933

Intensity 1.0x10⁶ 5.0x10⁵ 0.00 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00

Intensity 2x10⁷ 1x10⁷ 0.934 Extracted 153.09 170.10

Intensity 8x10⁶ 6x10⁶ 4x10⁶ 2x10⁶ 0.984 Extracted 41.94 153.07 170.13

Name	Retention Time (min)	MS Match1 (Spec Name)	MS Match1 (Lib. Name)	MS Match1 (PBM File)	MS Match1 (% Contamination)	Area (µV*sec)	% Area	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes			
1	0.934								Extracted	Baseline Correction: Off (0.93 0.94)	Average		0.000	1.0000	33040979.200000	153.09
2	0.984								Extracted	Baseline Correction: Off (0.98 0.99)	Average		0.000	1.0000	9137385.600000	153.07

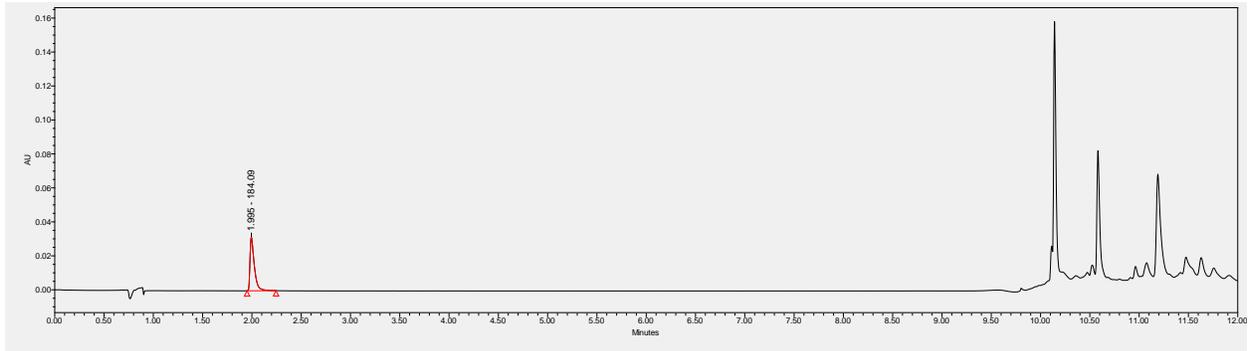
Legend | Spectra | Library Match | Spectrum Points

For Help, press F1

Meth Set: Untitled 2 Proc Meth: Untitled 2 IMS

9:48 AM 3/6/2018

1-6 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.995	95629	100.00	31613	bb			Unknown

1-6 Mass Spectrum

1-6ad2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

2.060

2.061 Extracted

184.10

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	2.061	1236	Extracted	Baseline Correction: Off (2.06-2.06)	Average			0.000	1.0000	30213596.800000	184.10

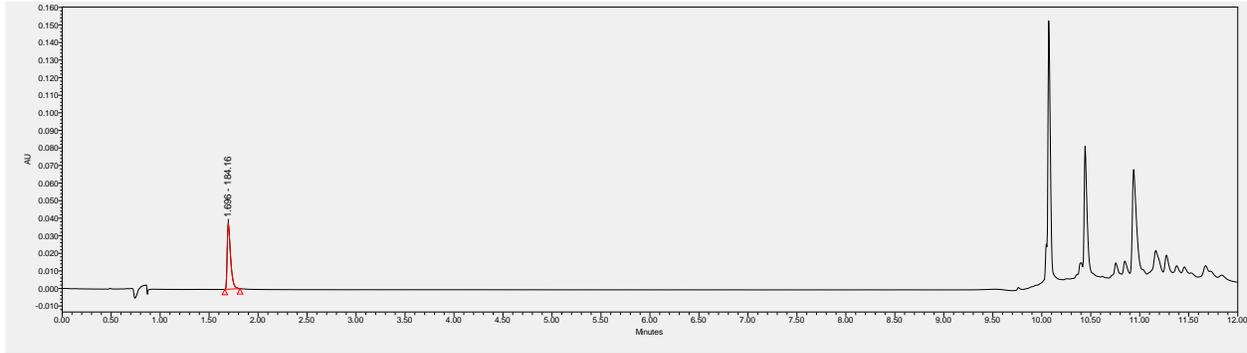
3D Channels 2D Channels Peaks Fractions

Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

9:50 AM 3/8/2018

1-6 UV-B LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.696	90617	100.00	37460	bb			Unknown

1-6 UVB Mass Spectrum

1-6uvb2 in Row as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour Spectrum Index Zeroed Baseline

1.724

Intensity

2.0095 Minutes, 3.887e+007 Intensity

1.724 Extracted

Intensity

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.724	1034	Extracted	Baseline Correction: Off (1.72:1.73)	Average		0.000	1.0000	61969881	600000	184.16

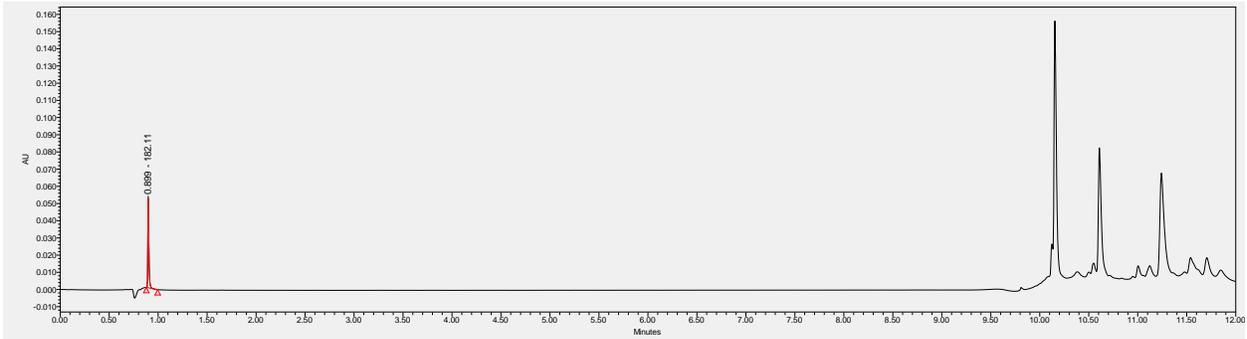
3D Channels 2D Channels Peaks Fractions

Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

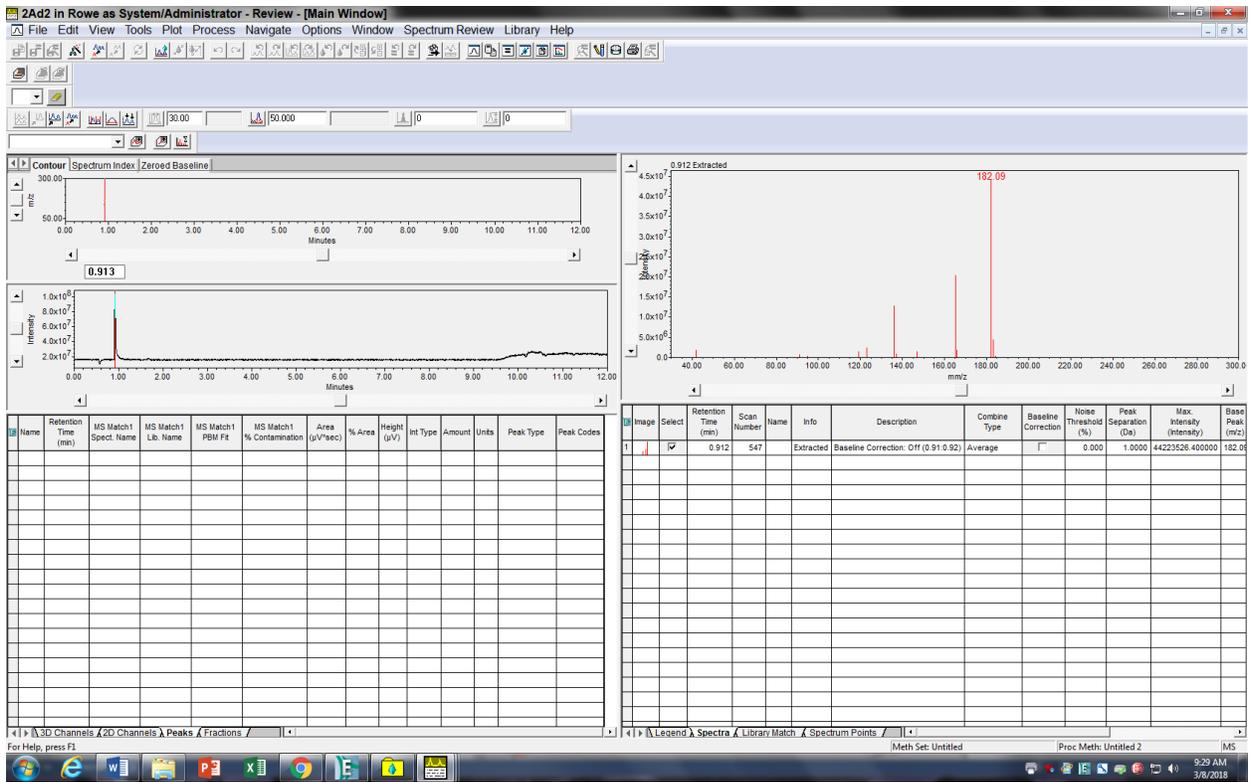
9:52 AM 3/6/2018

2 LC PDA Detector Data with Integrated Peak

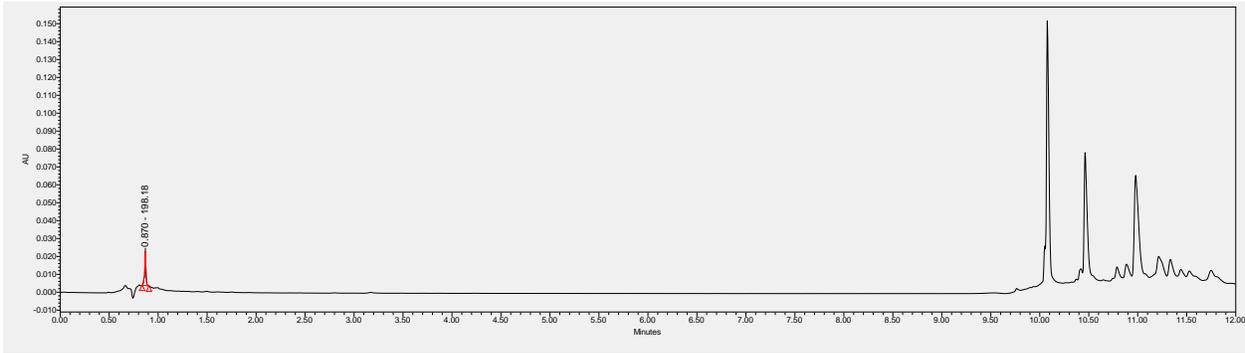


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.899	39379	100.00	52026	bb			Unknown

2 Mass Spectrum

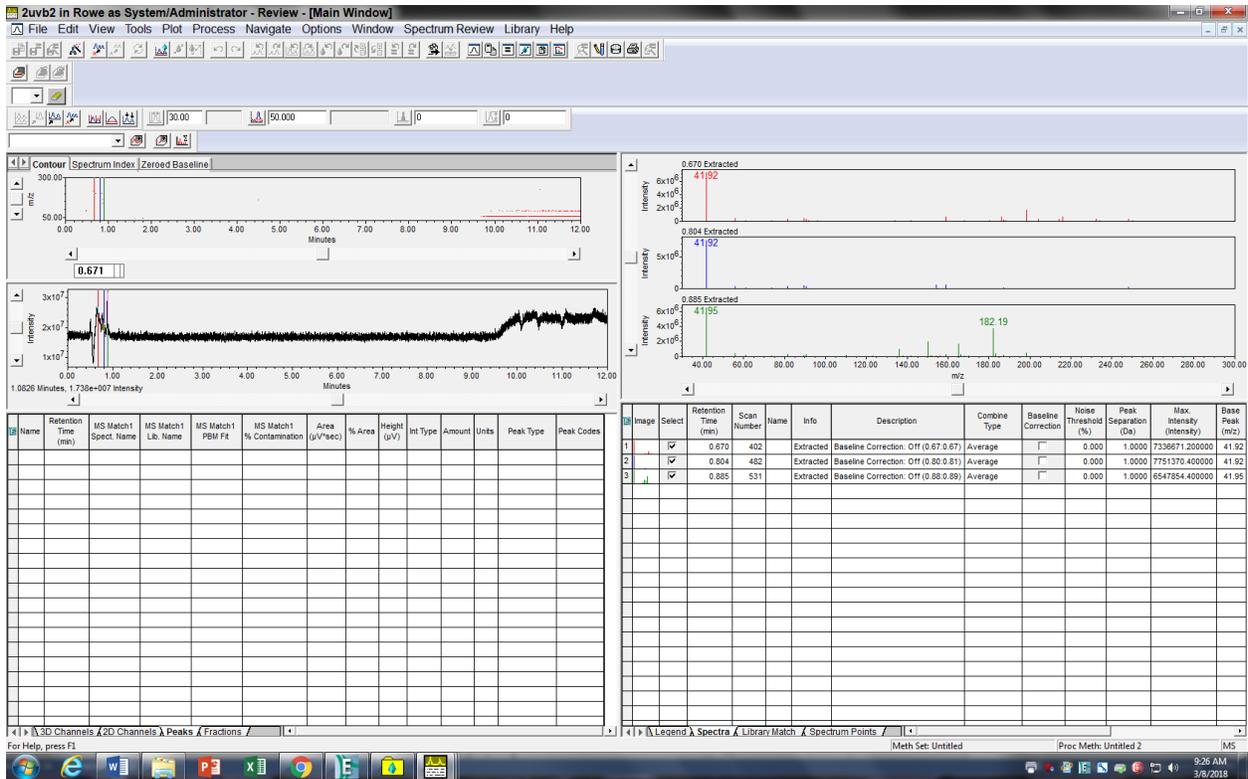


2 UV-B LC PDA Detector Data with Integrated Peak

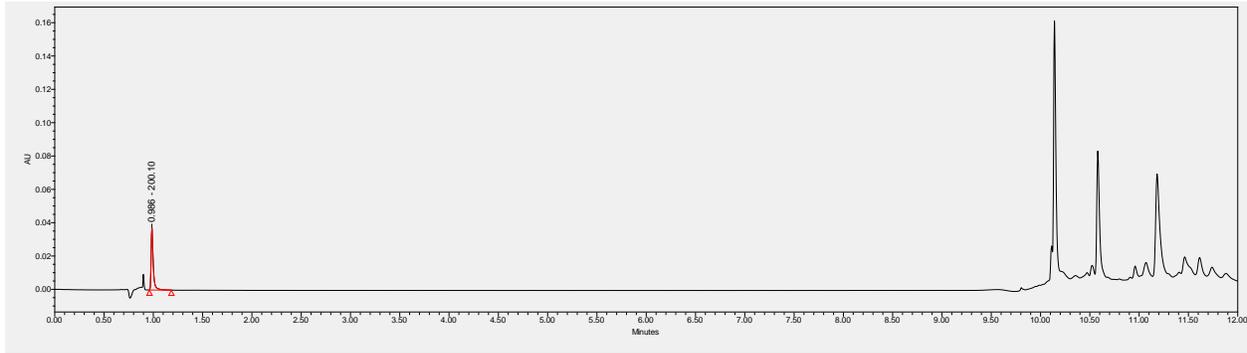


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.870	17015	100.00	18986	bb			Unknown

2 UVB Mass Spectrum

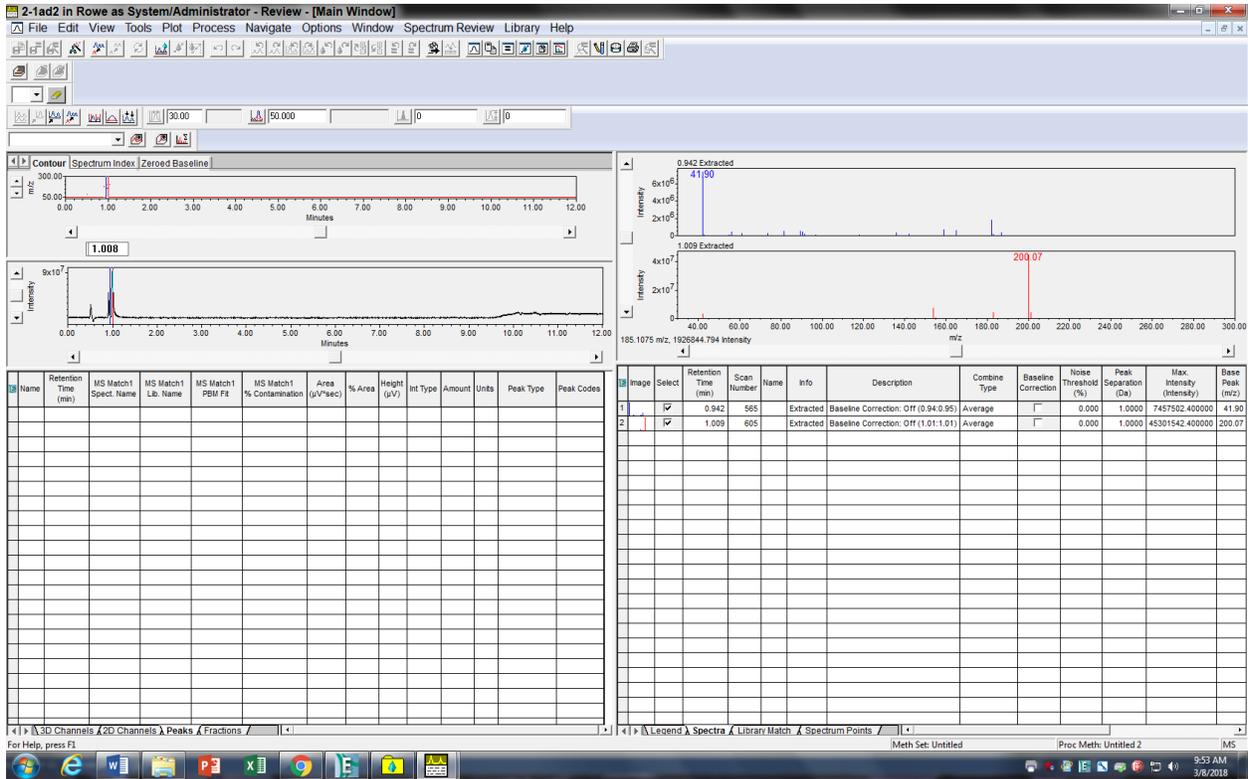


2-1 LC PDA Detector Data with Integrated Peak

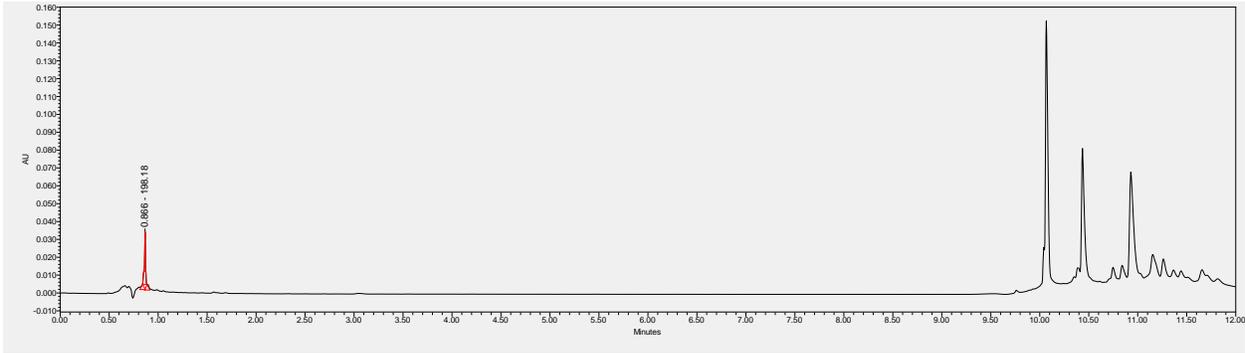


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.986	55681	100.00	37139	bb			Unknown

2-1 Mass Spectrum

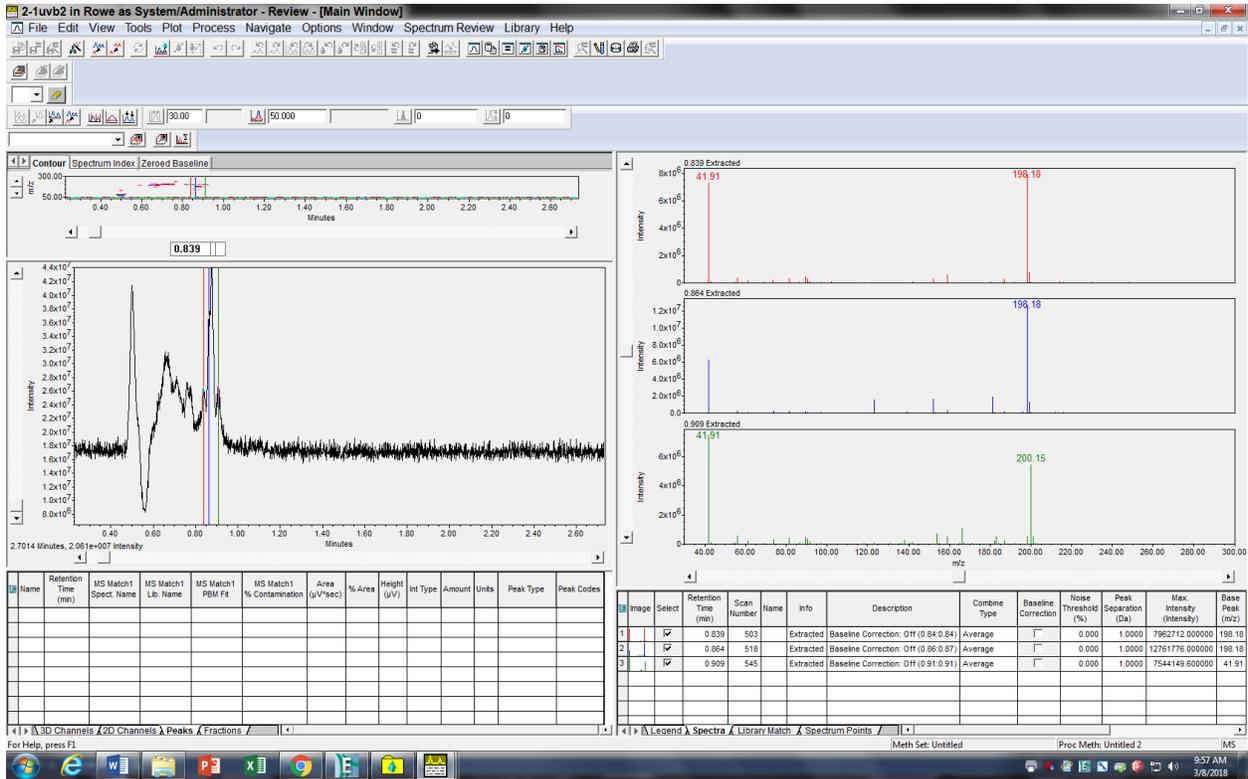


2-1 UV-B LC PDA Detector Data with Integrated Peak

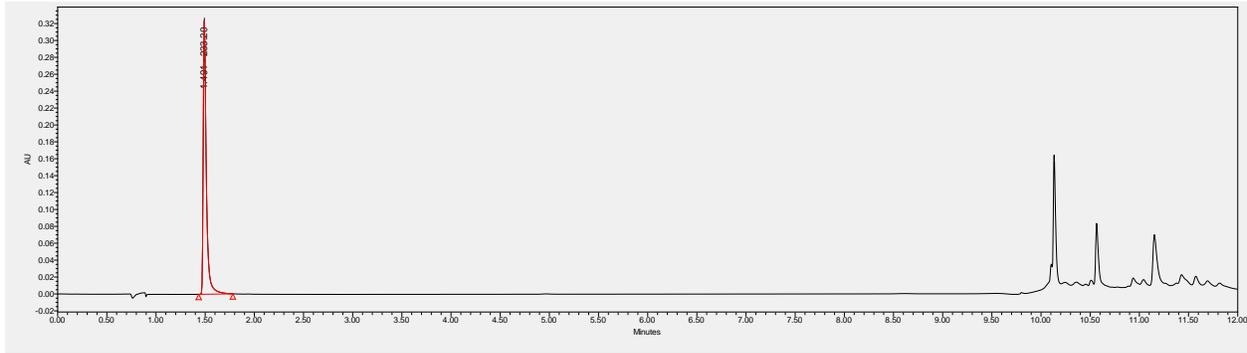


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.866	24197	100.00	29484	bb			Unknown

2-1 UVB Mass Spectrum

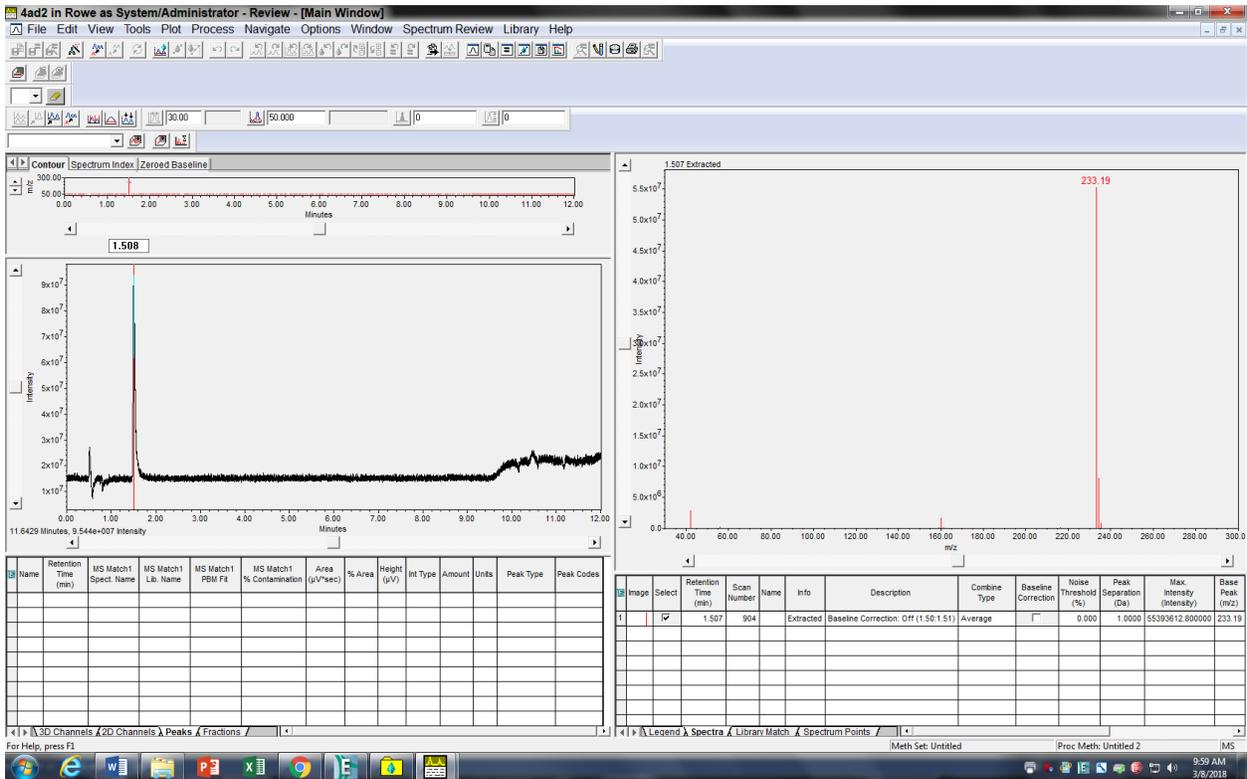


4 LC PDA Detector Data with Integrated Peak

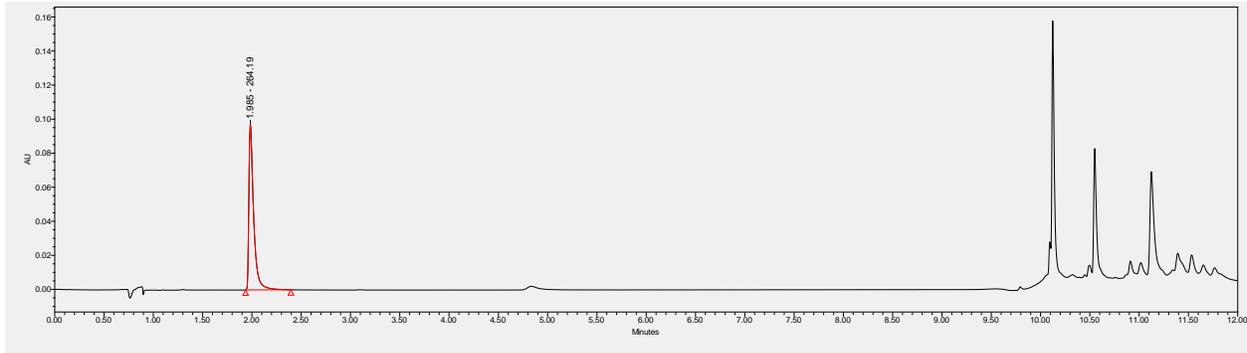


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.491	716988	100.00	323502	bb			Unknown

4 Mass Spectrum

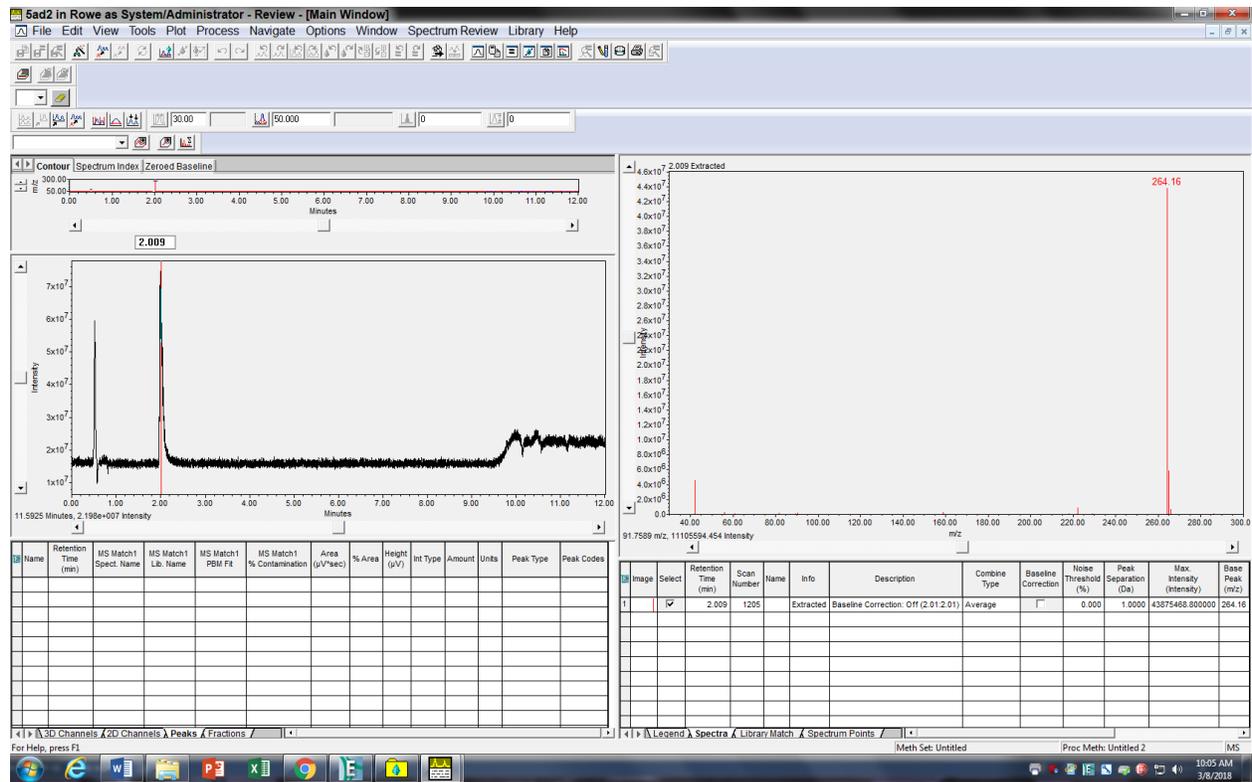


5 LC PDA Detector Data with Integrated Peak

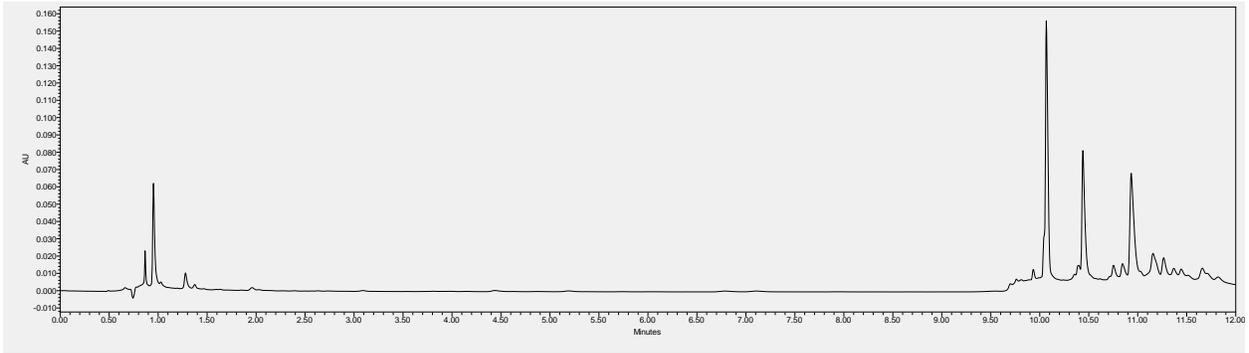


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.985	327286	100.00	97203	bb			Unknown

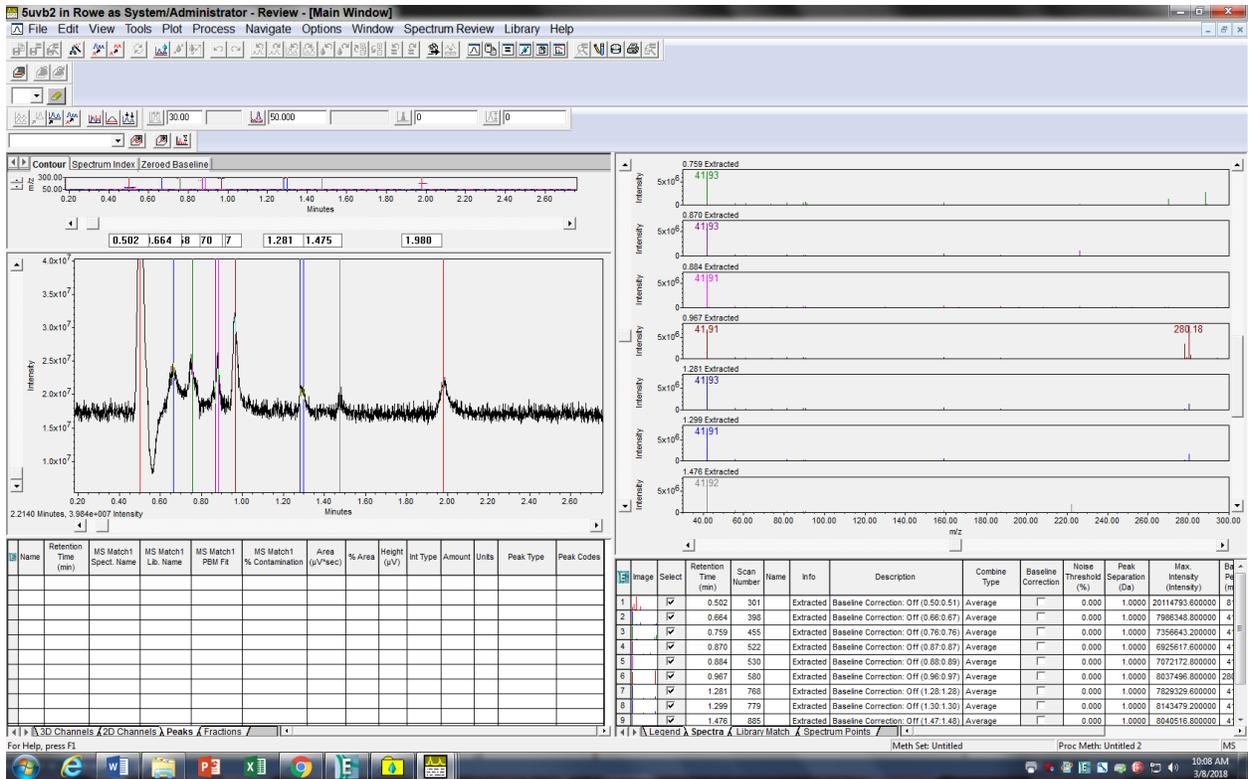
5 Mass Spectrum



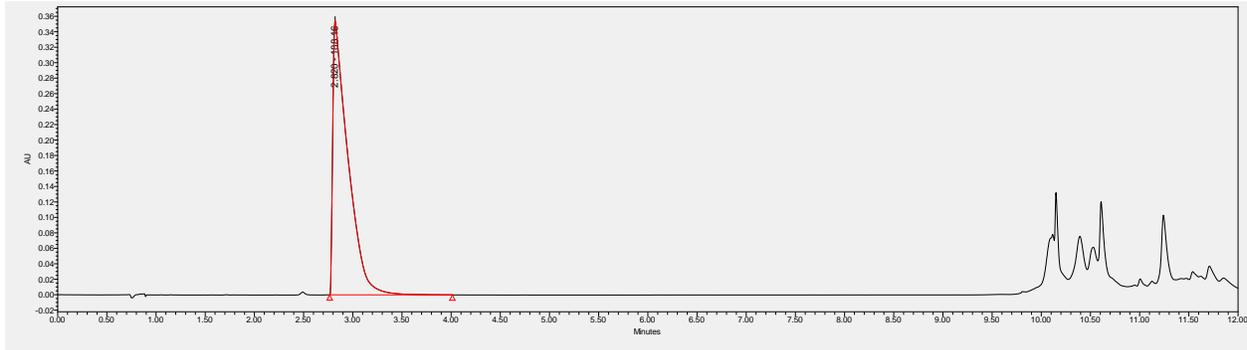
5 UV-B LC PDA Detector Data with Integrated Peak



5 UVB Mass Spectrum



3 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.820	3792679	100.00	354425	bb			Unknown

3 Mass Spectrum

3a2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour | Spectrum Index | Zeroed Baseline

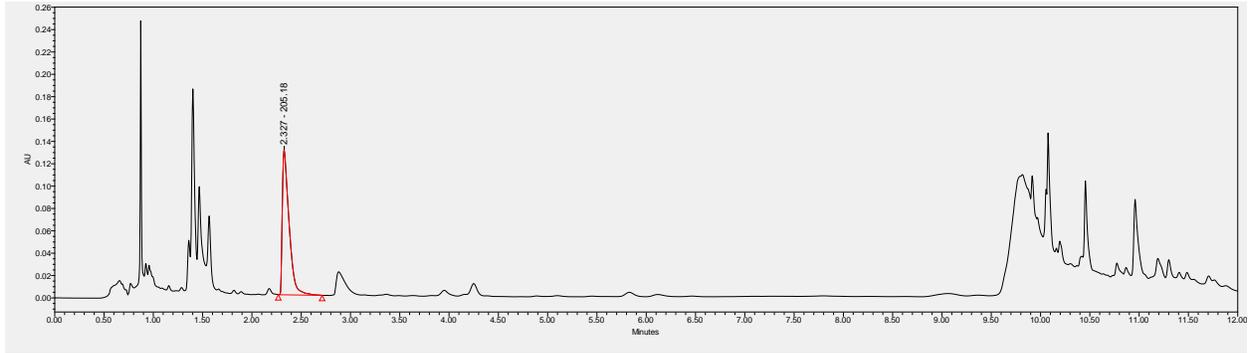
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	BA Pe (m)
1	<input checked="" type="checkbox"/>	2.853	1711	Extracted		Baseline Correction: Off (2.85-2.86)	Average		0.000	1.0000	48629440.000000	164

For Help, press F1

Meth Set: Untitled Proc Meth: Untitled 2 MS

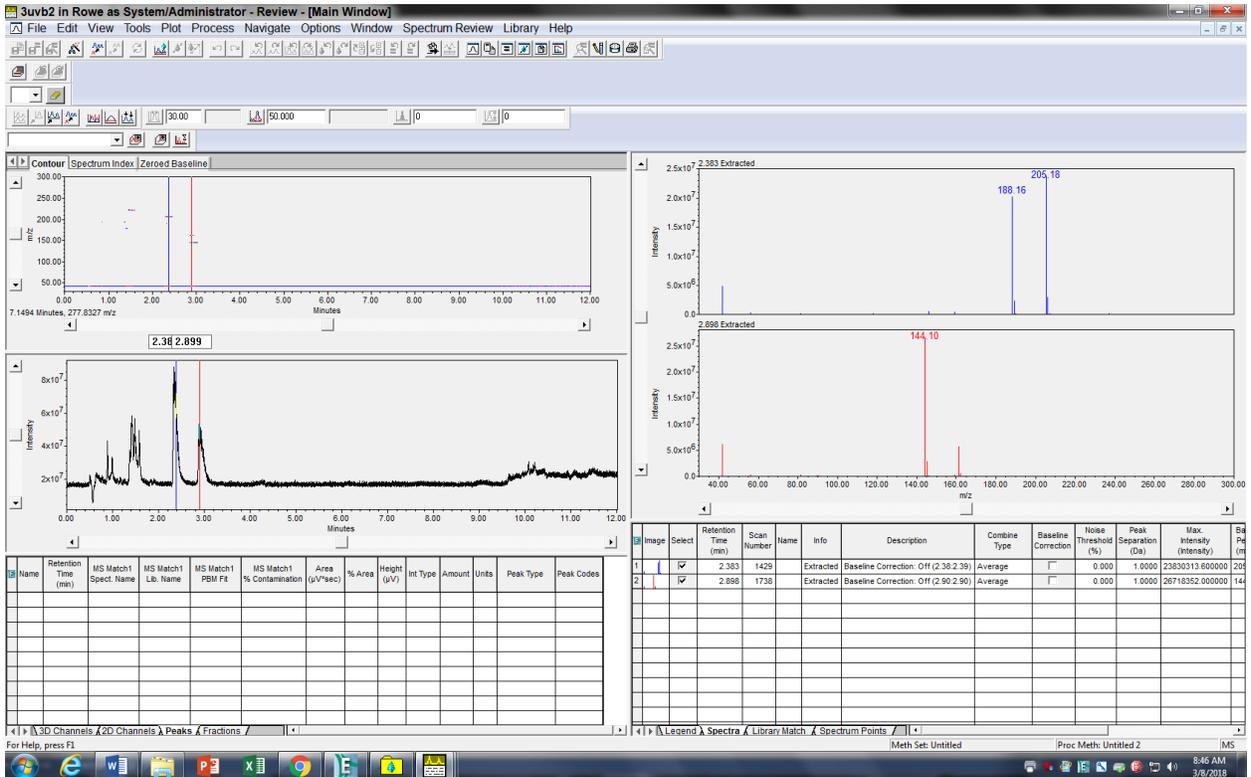
8:44 AM 3/8/2018

3 UV-B LC PDA Detector Data with Integrated Peak

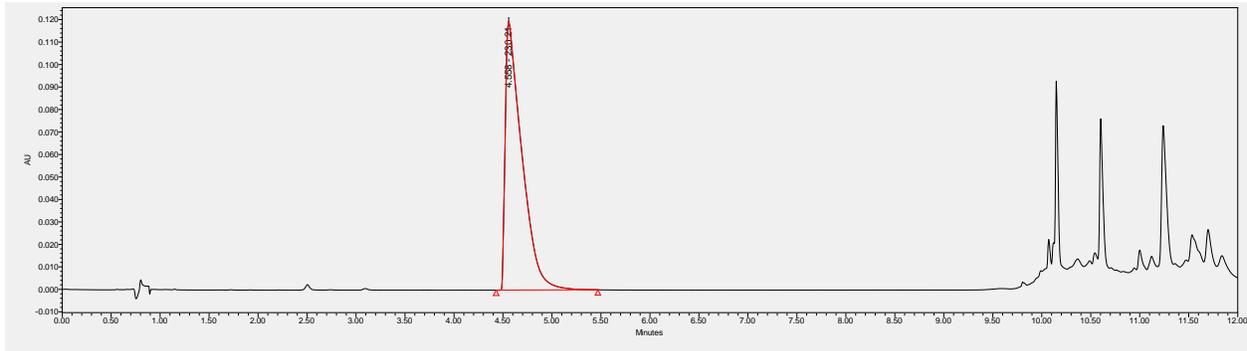


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.327	615698	100.00	129284	bb			Unknown

3 UVB Mass Spectrum

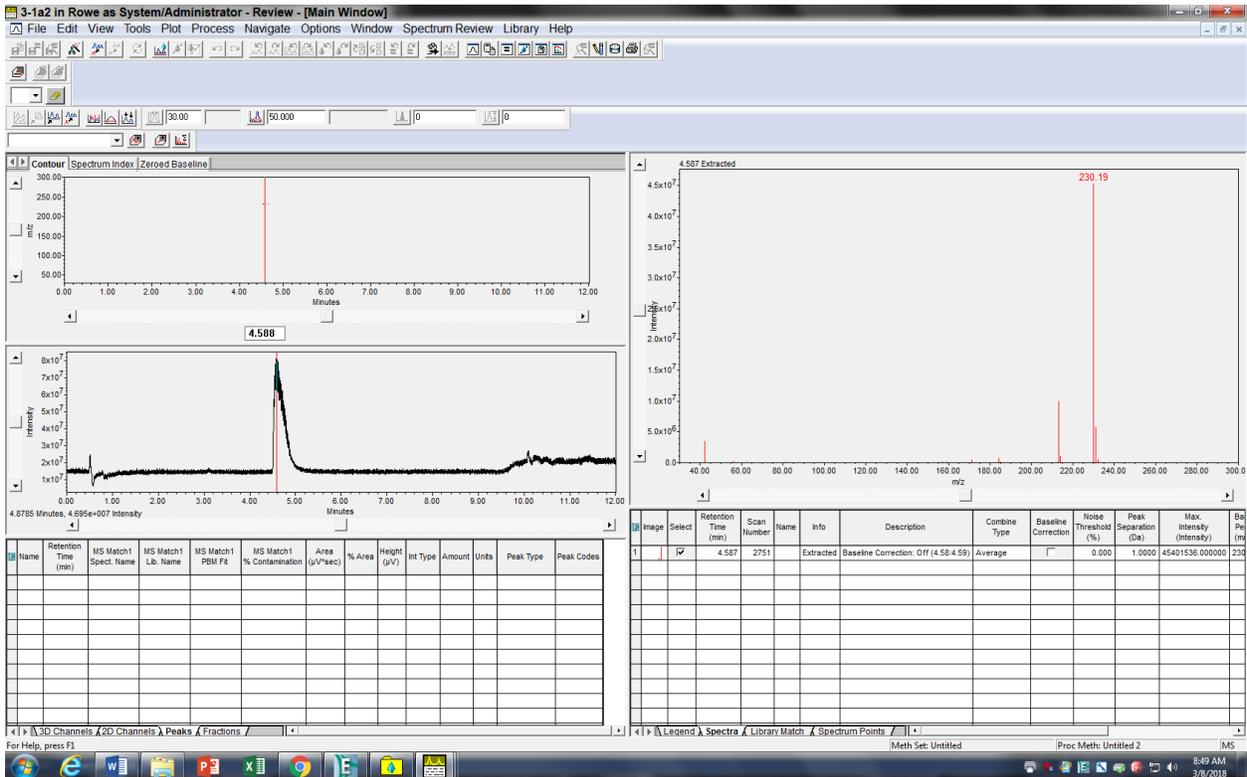


3-1 LC PDA Detector Data with Integrated Peak

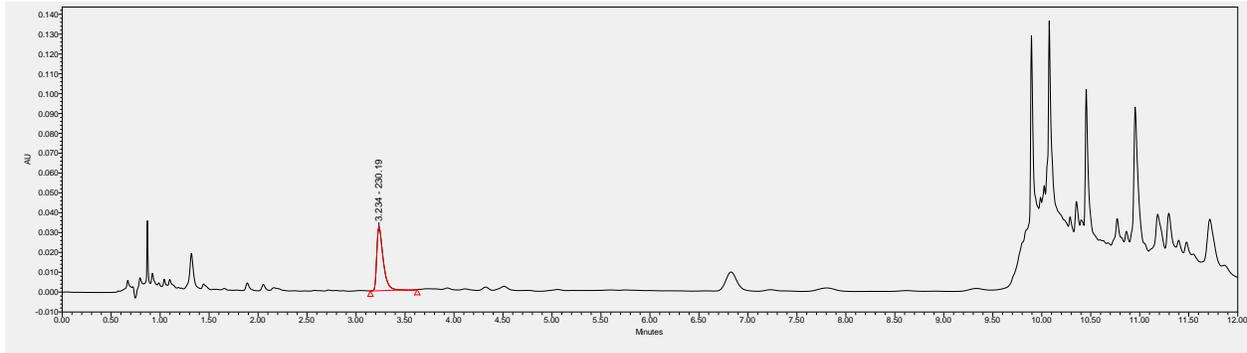


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.558	1402762	100.00	119451	bb			Unknown

3-1 Mass Spectrum

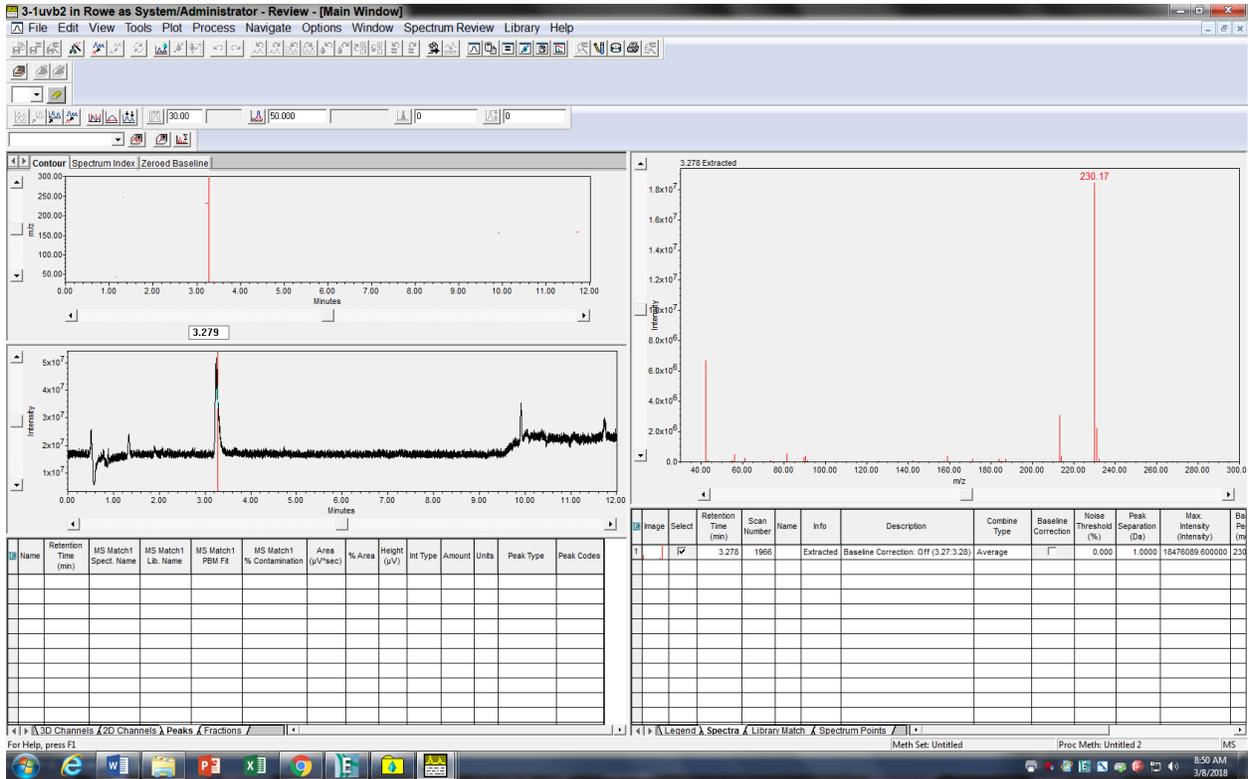


3-1 UV-B LC PDA Detector Data with Integrated Peak

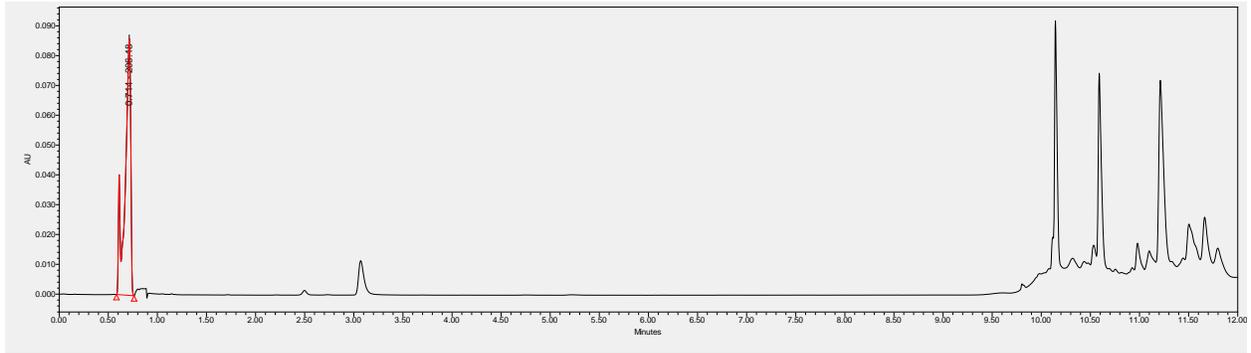


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		3.234	148564	100.00	32255	bb			Unknown

3-1 UVB Mass Spectrum

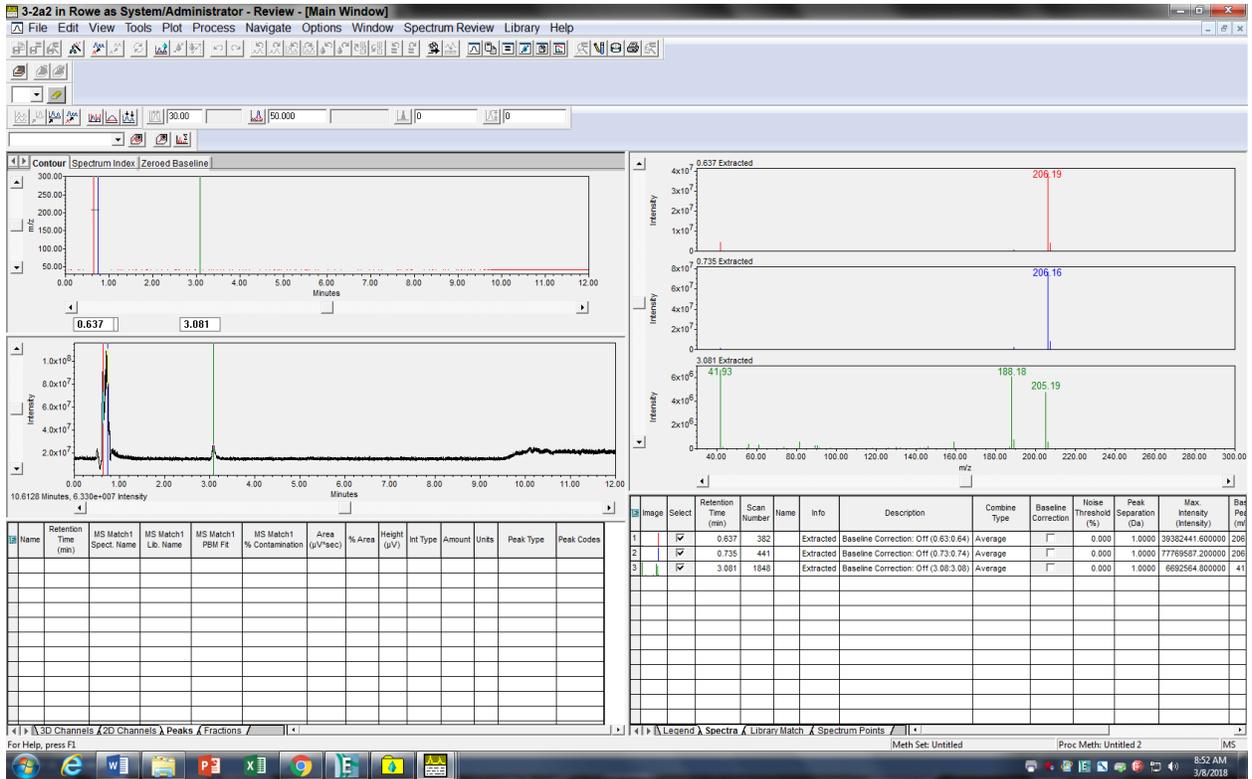


3-2 LC PDA Detector Data with Integrated Peak

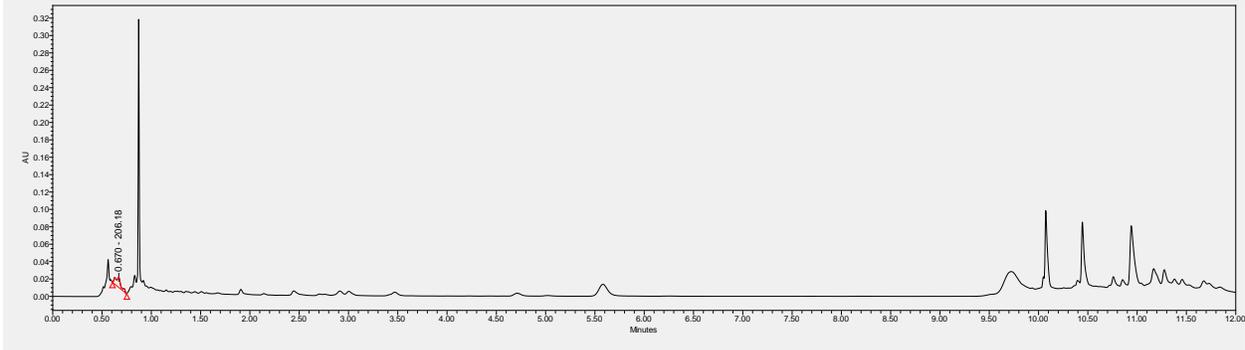


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.714	345619	100.00	85986	bb			Unknown

3-2 Mass Spectrum



3-2 UV-B LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.670	42294	100.00	11676	bb			Unknown

3-2 UVB Mass Spectrum

3-2uvb2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour | Spectrum Index | Zeroed Baseline

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity (Intensity)	Ref. Ret. (min)
1	<input checked="" type="checkbox"/>	0.637	382	Extracted	Baseline Correction: Off (0.63:0.64)	Average	<input type="checkbox"/>	0.000	1.0000	1079854.400000	206	
2	<input checked="" type="checkbox"/>	0.915	549	Extracted	Baseline Correction: Off (0.91:0.92)	Average	<input type="checkbox"/>	0.000	1.0000	8421086.400000	179	
3	<input checked="" type="checkbox"/>	0.980	588	Extracted	Baseline Correction: Off (0.98:0.98)	Average	<input type="checkbox"/>	0.000	1.0000	7854676.800000	179	
4	<input checked="" type="checkbox"/>	2.441	1464	Extracted	Baseline Correction: Off (2.44:2.44)	Average	<input type="checkbox"/>	0.000	1.0000	37916374.400000	133	

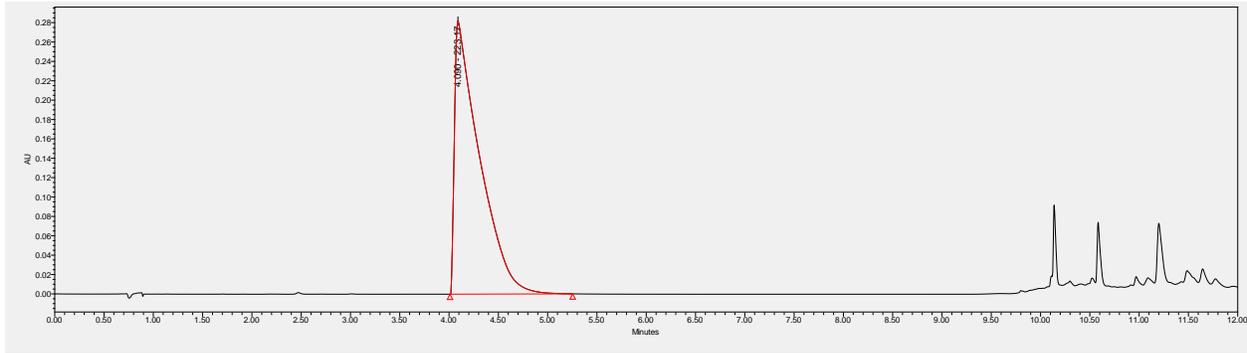
3D Channels | 2D Channels | Peaks | Fractions

Legend | Spectra | Library Match | Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

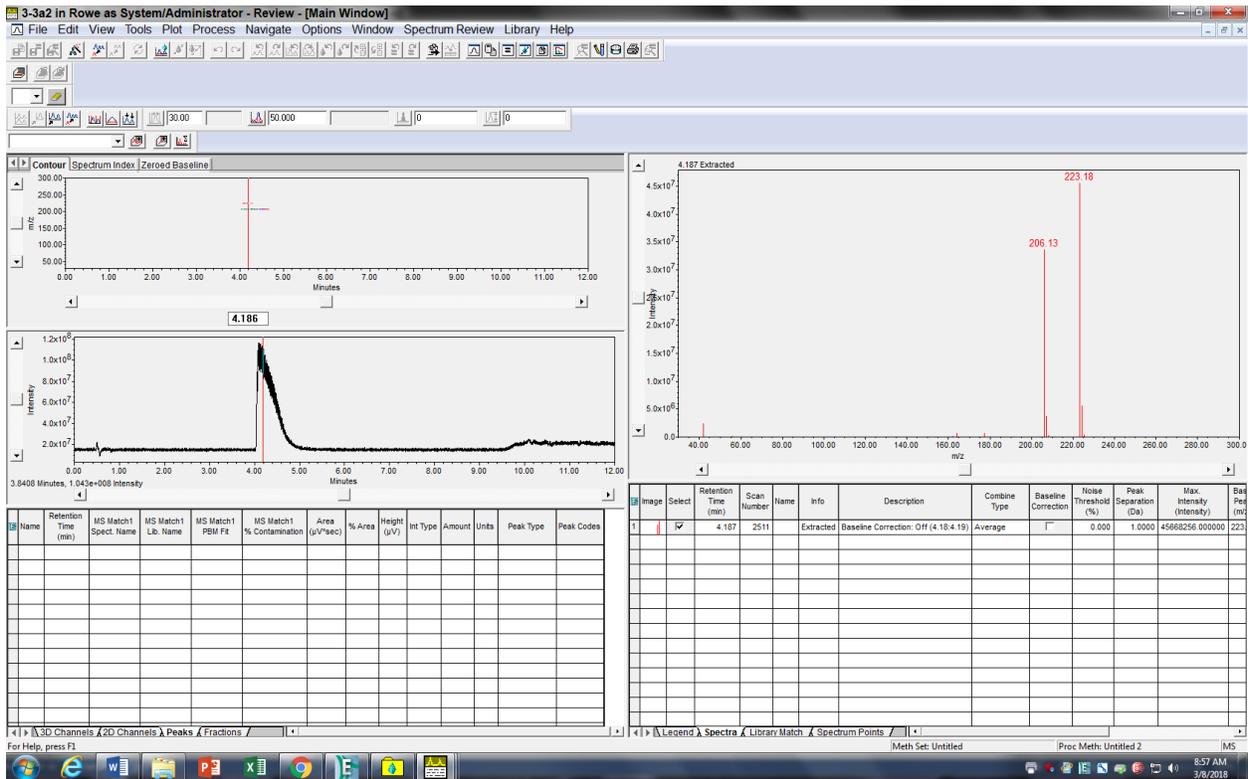
8:54 AM 3/6/2018

3-3 LC PDA Detector Data with Integrated Peak

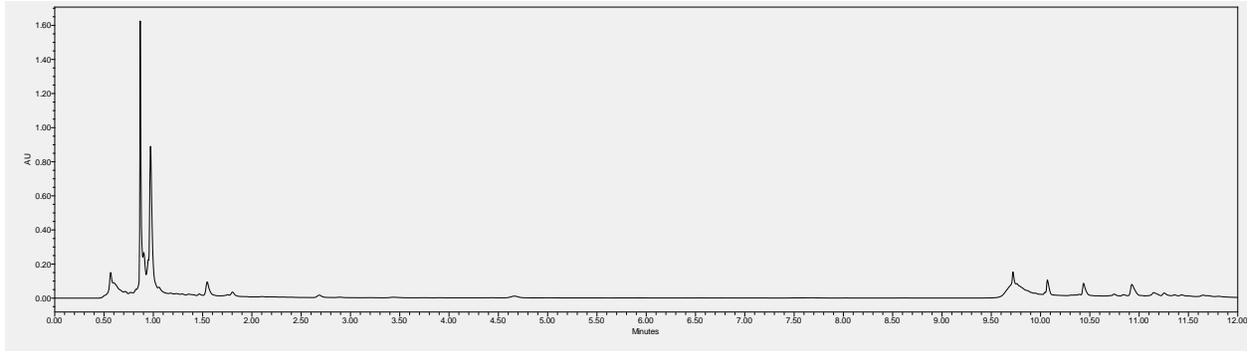


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.090	4951822	100.00	281952	bb			Unknown

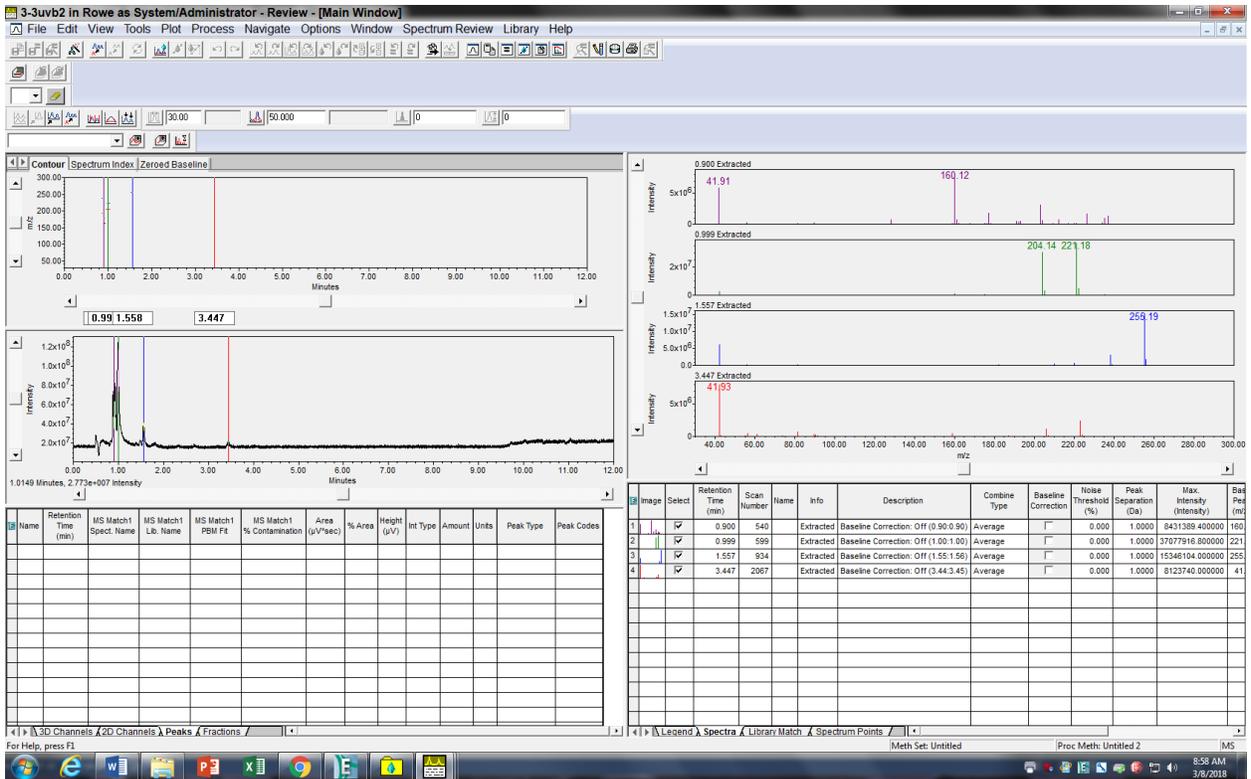
3-3 Mass Spectrum



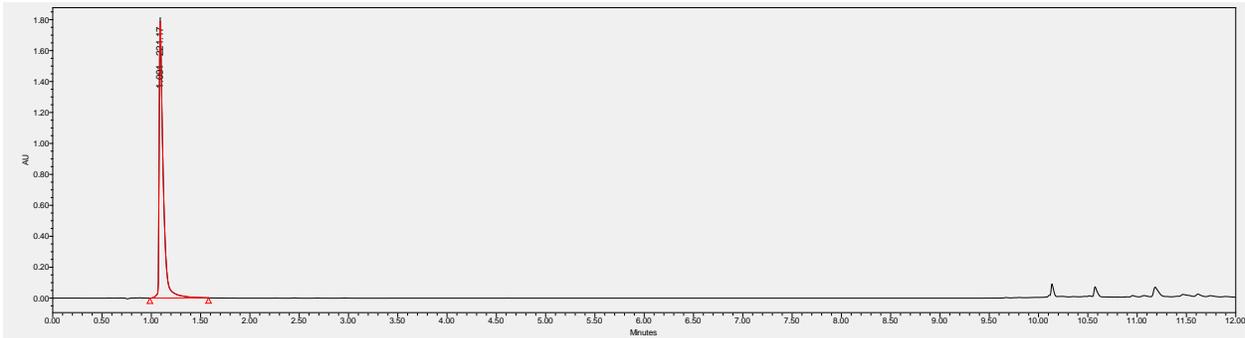
3-3 UV-B LC PDA Detector Data with Integrated Peak



3-3 UVB Mass Spectrum



3-4 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.091	5071661	100.00	1787026	bb			Unknown

3-4 Mass Spectrum

3-4a2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

1.116

1.2472 Minutes, 6.401e+007 Intensity

1.115 Extracted

204.14 221.19

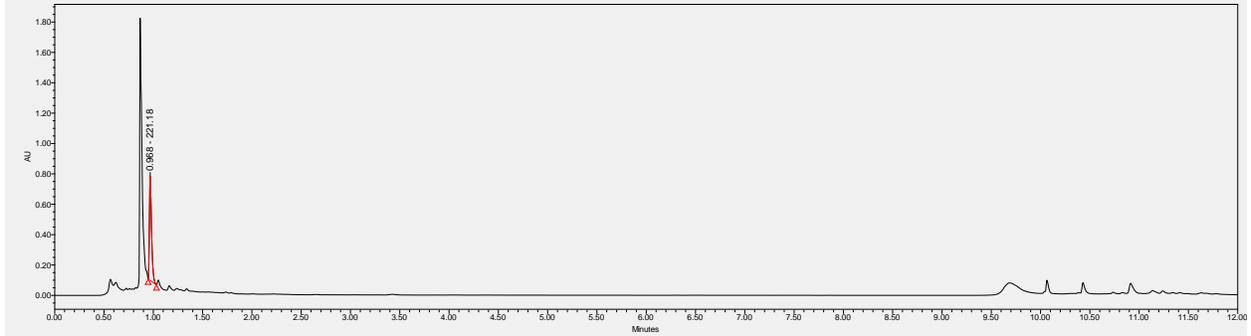
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity	Peak (m/z)
1	<input checked="" type="checkbox"/>	1.115	669	Extracted	Baseline Correction: Off (1.111-1.12)	Average		0.000	1.0000	48671052.000000	204	

1.3D Channels / 20 Channels / Peaks / Fractions / Legend / Spectra / Library Match / Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 IMS

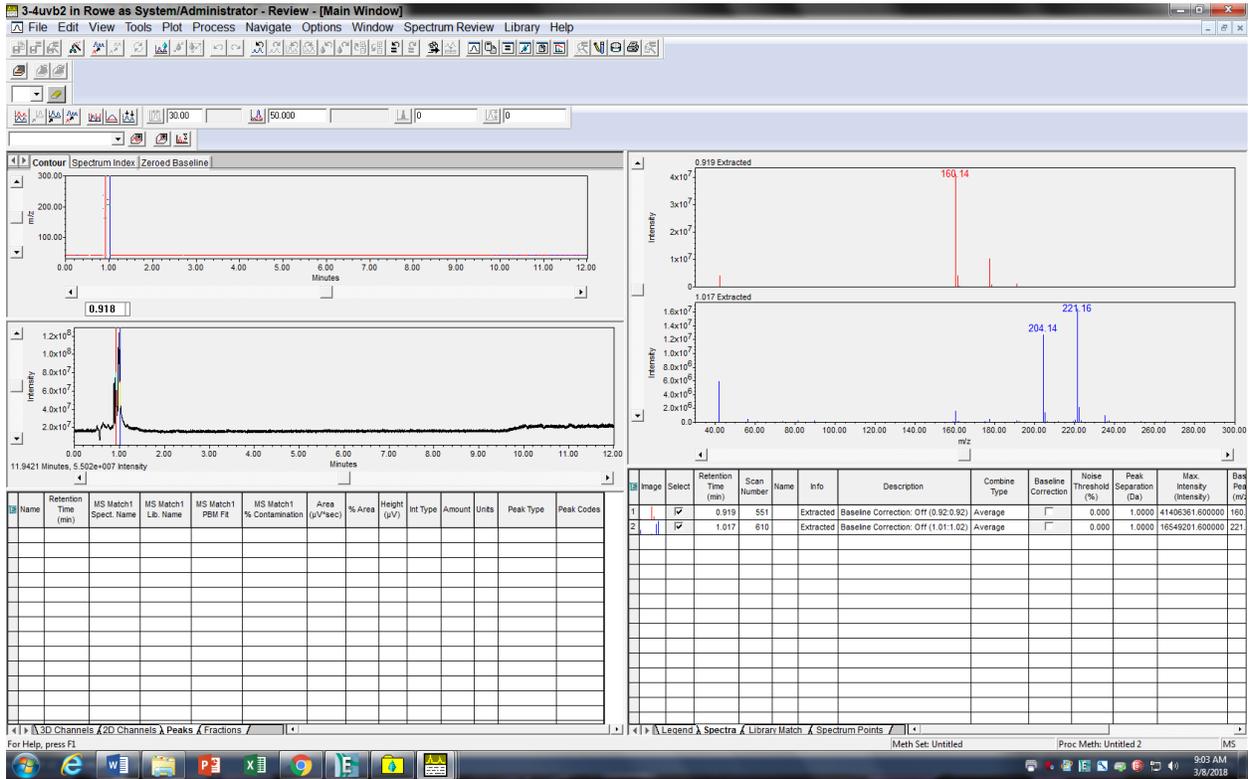
9:00 AM 3/8/2018

3-4 UV-B LC PDA Detector Data with Integrated Peak

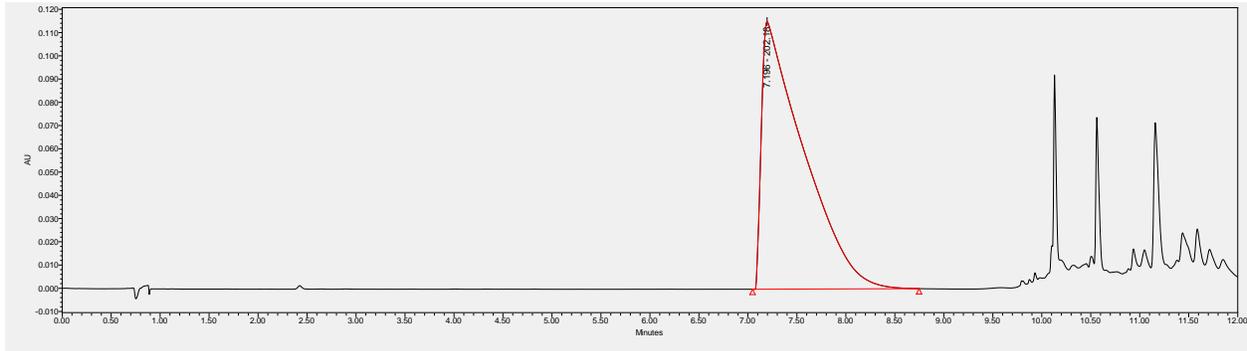


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.968	1043865	100.00	683634	bb			Unknown

3-4 UVB Mass Spectrum

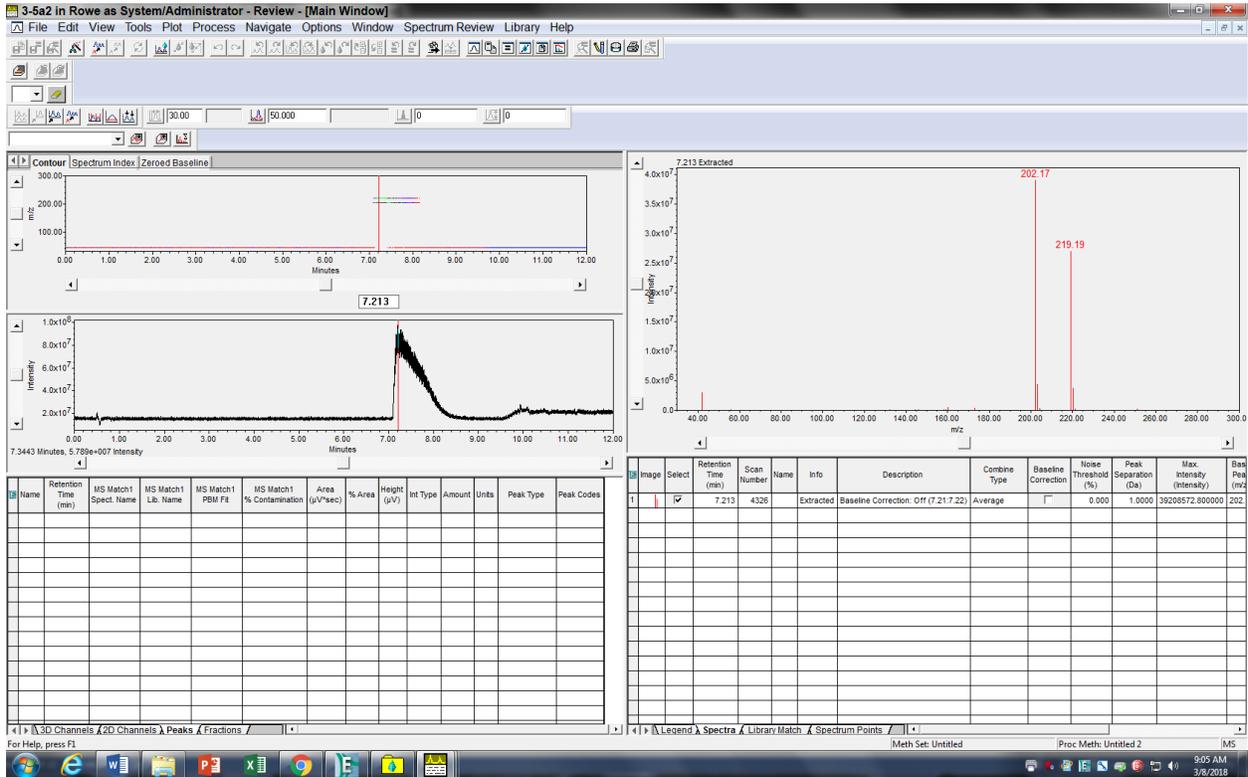


3-5 LC PDA Detector Data with Integrated Peak

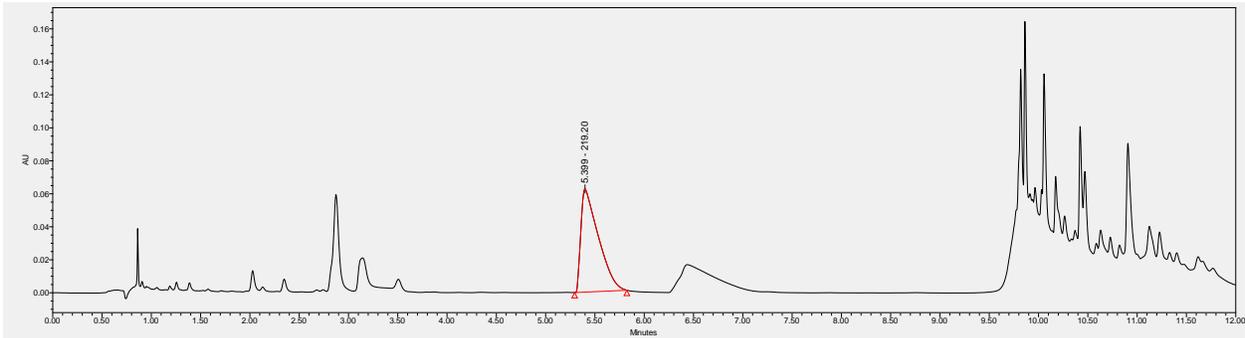


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		7.196	3441249	100.00	115120	bb			Unknown

3-5 Mass Spectrum



3-5 UV-B LC PDA Detector Data with Integrated Peak



1	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
		5.399	771254	100.00	62540	bb			Unknown

3-5 UVB Mass Spectrum

3-5uvb2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50.000 0 0

Contour | Spectrum Index | Zeroed Baseline

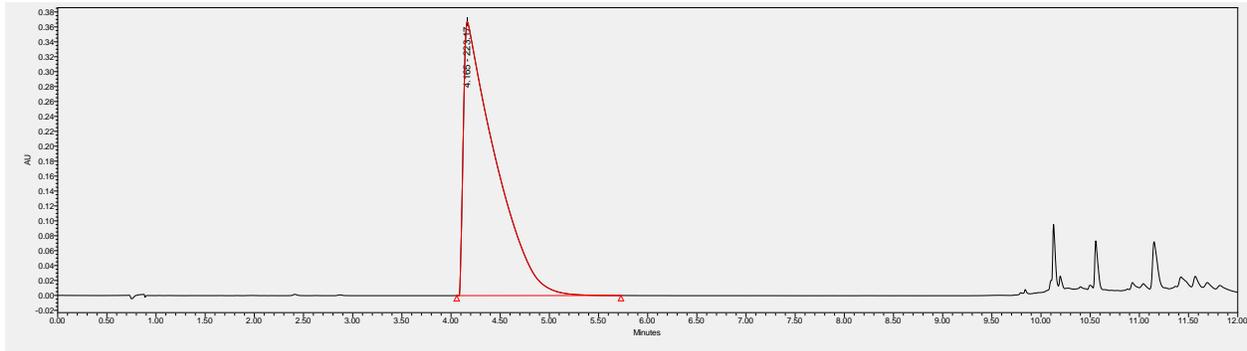
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	5.440	3262		Extracted	Baseline Correction: Off (5.44 5.44)	Average	<input type="checkbox"/>	0.000	1.0000	25087798.400000	202
2	<input checked="" type="checkbox"/>	6.516	3907		Extracted	Baseline Correction: Off (6.516 6.52)	Average	<input type="checkbox"/>	0.000	1.0000	24397635.200000	158

3D Channels | 2D Channels | Peaks | Fractions | Legend | Spectra | Library Match | Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

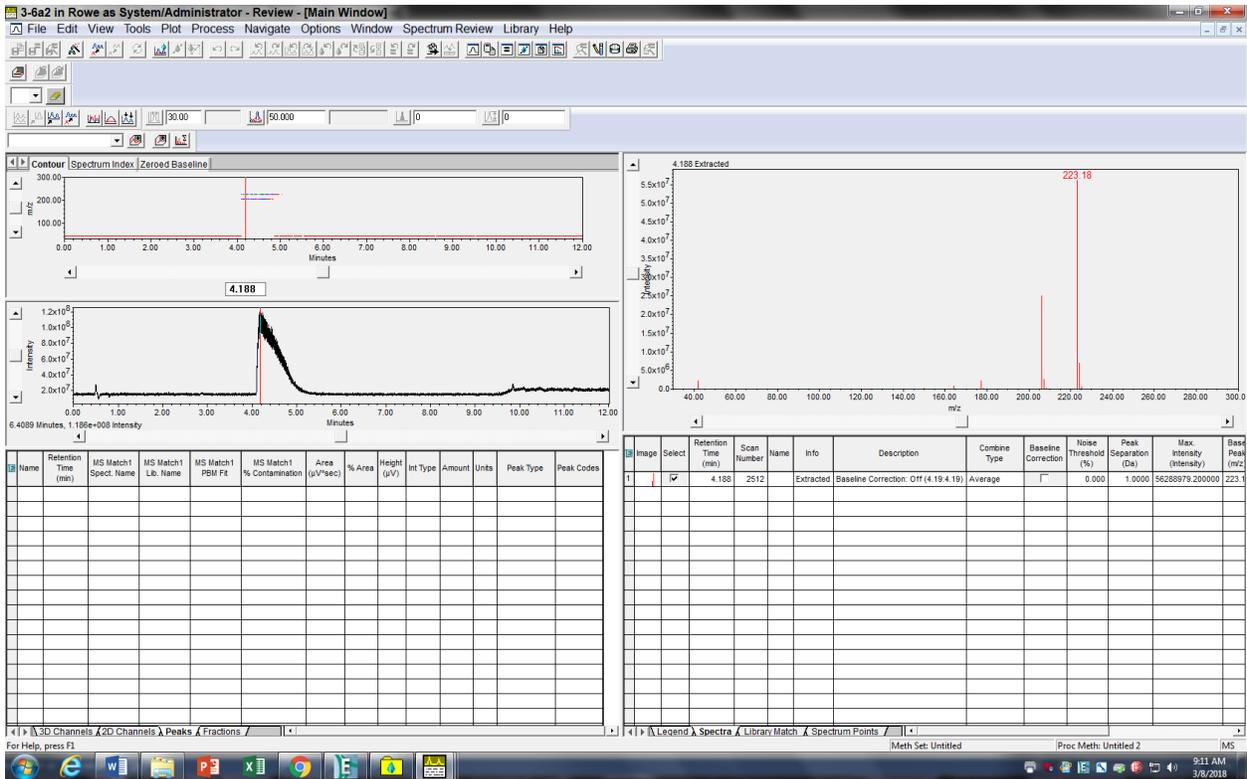
9:08 AM 3/6/2018

3-6 LC PDA Detector Data with Integrated Peak

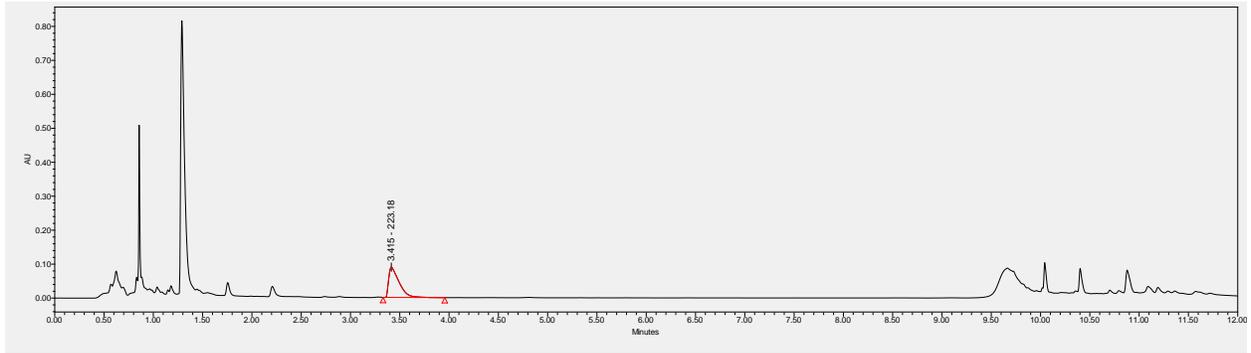


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.165	8184661	100.00	367356	bb			Unknown

3-6 Mass Spectrum



3-6 UV-B LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	3.415	648197	100.00	89369	bb			Unknown

3-6 UVB Mass Spectrum

3-6uvb2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

3.000 50,000 0 0

Contour | Spectrum Index | Zeroed Baseline

3.443

3.6083 Minutes, 2.289e+007 Intensity

Name	Retention Time (min)	MS Match1 Spec. Name	MS Match1 Lib. Name	MS Match1 PBM File	MS Match1 % Contamination	Area (μV*sec)	% Area	Height (μV)	Int Type	Amount	Units	Peak Type	Peak Codes
1	3.443								Extracted			Baseline Correction: Off (3.443.45)	

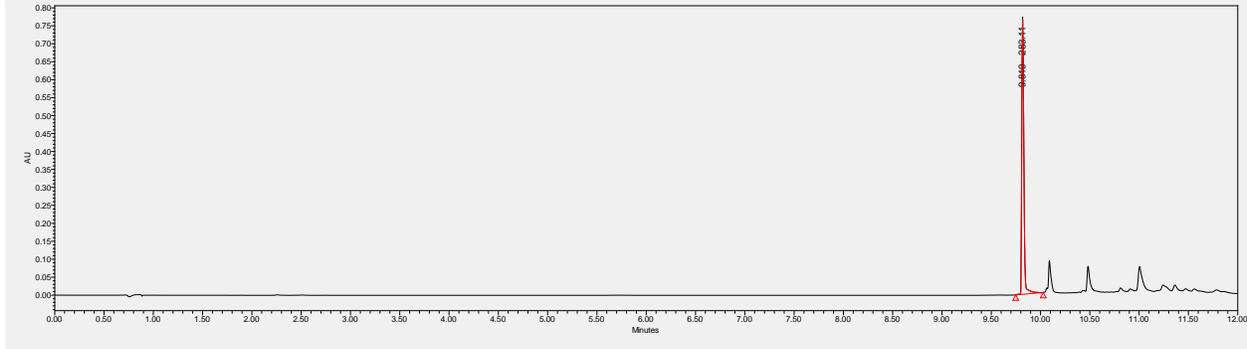
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity	Peak Intensity (m/z)
1	<input checked="" type="checkbox"/>	3.443	2095		Extracted	Baseline Correction: Off (3.443.45)	Average	<input type="checkbox"/>	0.000	1.0000	34731965.600000	223

3D Channels | 2D Channels | Peaks | Fractions | Legend | Spectra | Library Match | Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

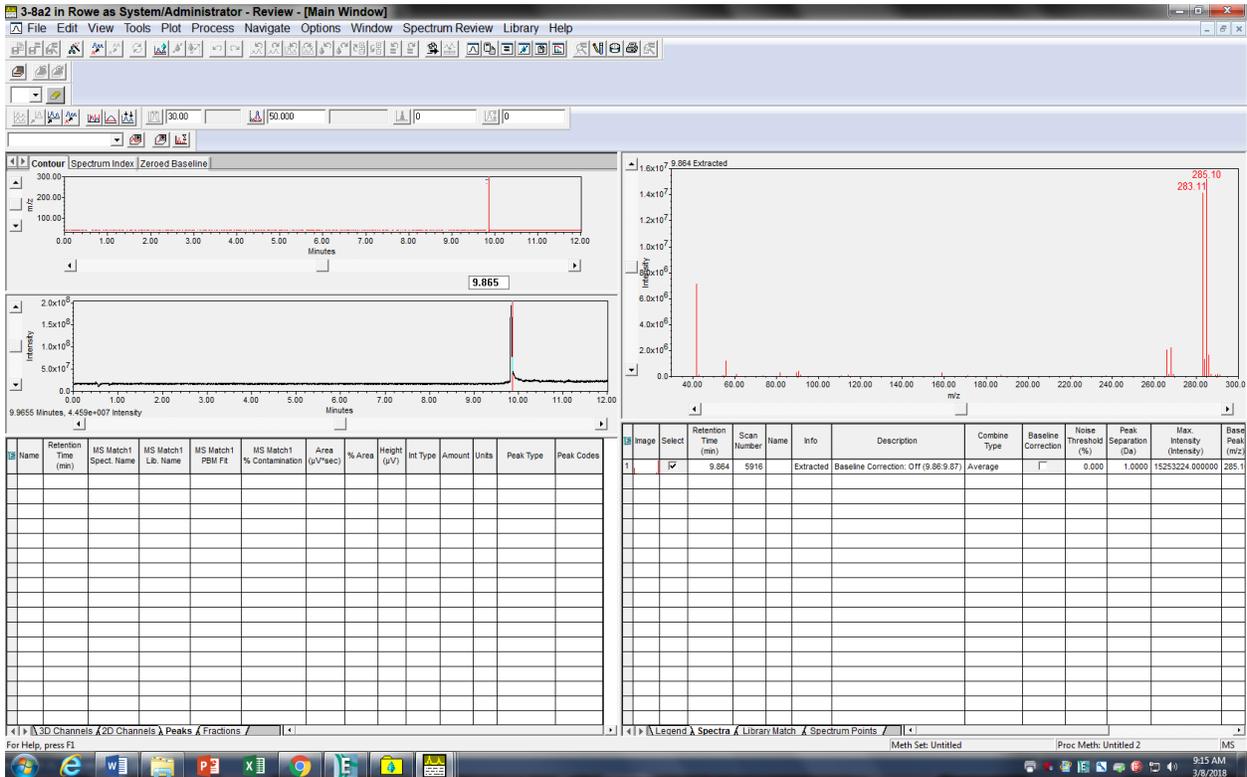
9:13 AM 3/6/2018

3-8 LC PDA Detector Data with Integrated Peak

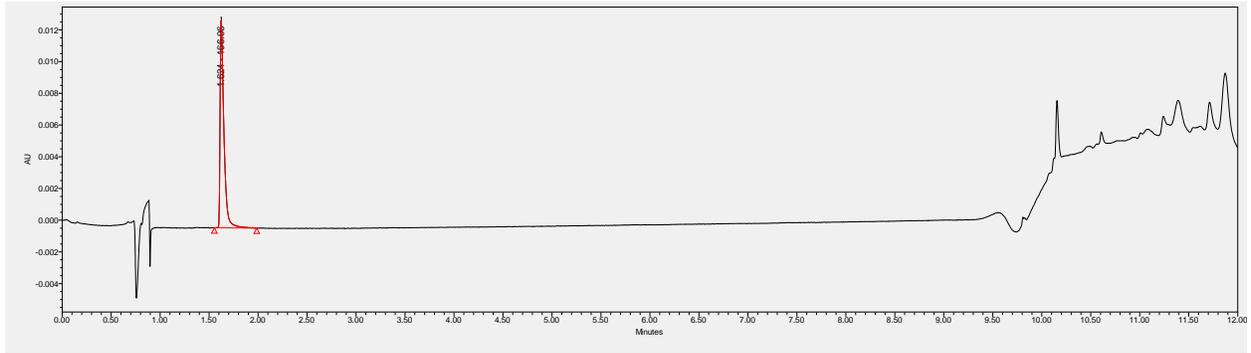


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	9.819	1148094	100.00	765144	bb			Unknown

3-8 Mass Spectrum

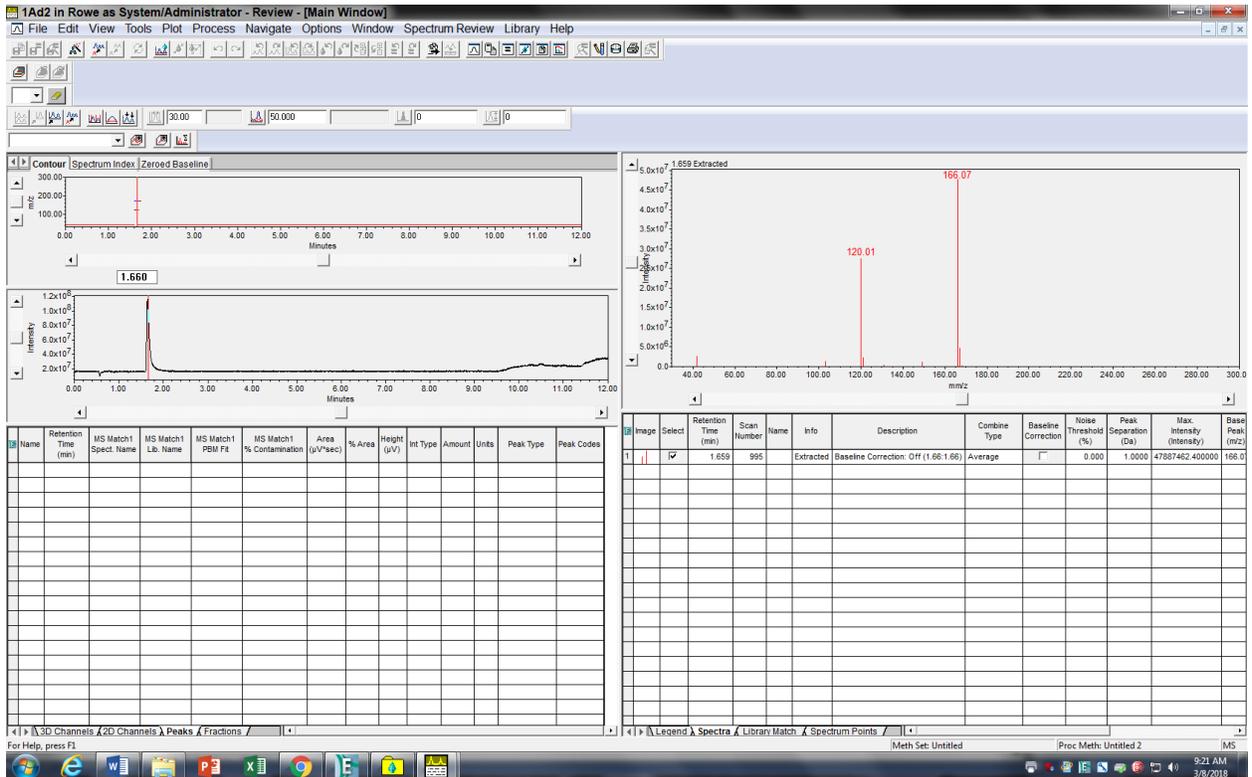


1 LC PDA Detector Data with Integrated Peak

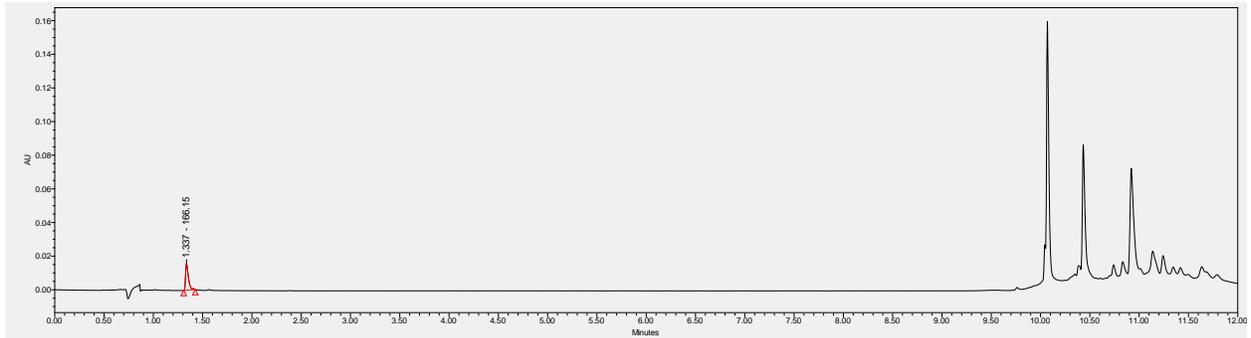


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.624	35449	100.00	13046	bb			Unknown

1 Mass Spectrum



1 UV-C LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.337	31687	100.00	15868	bb			Unknown

1 UVC Mass Spectrum

1uv2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

1.357

1.357 Extracted

120.07 166.16

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.357	814	Extracted	Baseline Correction: Off (1.35:1.36)	Average	<input type="checkbox"/>	0.000	1.0000	56123526.400000	166.16	

1.357 Minutes: 1.331e+007 Intensity

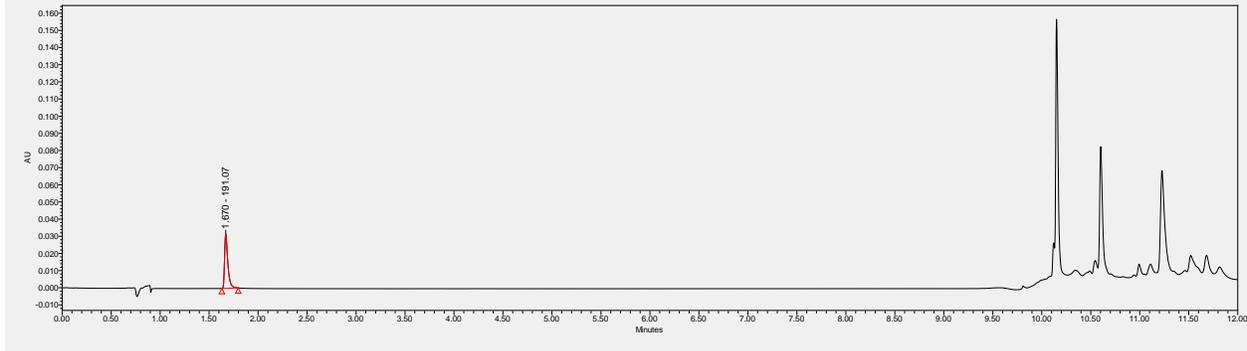
66.8894 m/z, 320061.388 Intensity

3.5D Channels / 20 Channels / Peaks / Fractions / Legend / Spectra / Library Match / Spectrum Points

Meth Set: Untitled 2 Proc Meth: Untitled 2 IMS

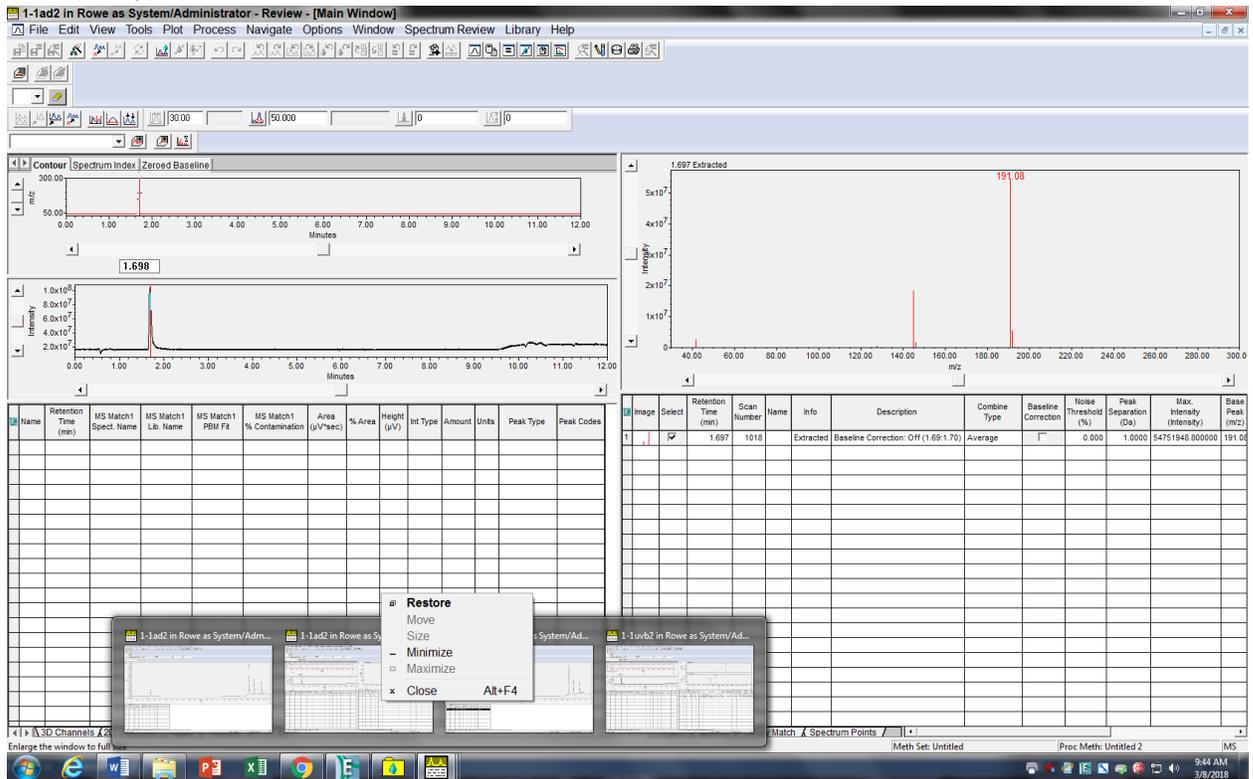
9:41 AM 3/9/2018

1-1 LC PDA Detector Data with Integrated Peak

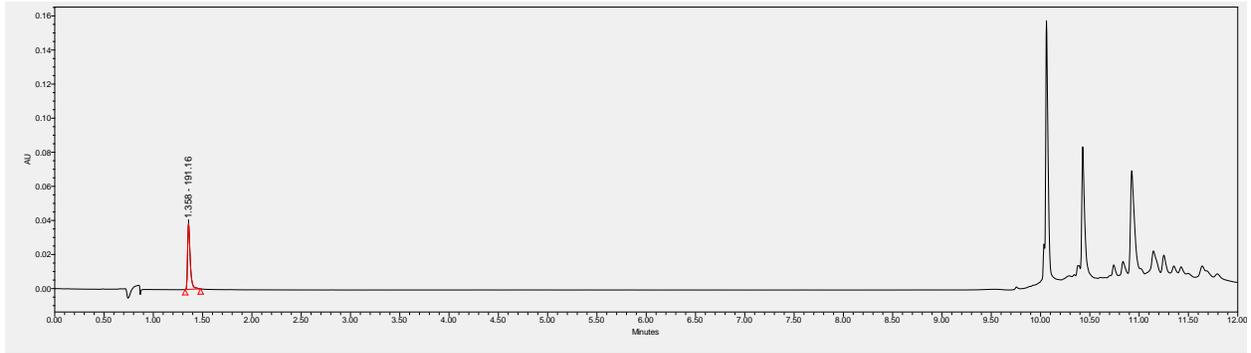


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.670	72903	100.00	31568	bb			Unknown

1-1 Mass Spectrum



1-1UV-C LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.358	70672	100.00	38472	bb			Unknown

1-1UVC Mass Spectrum

1-1uv2c in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

1.372

11.5894 Minutes: 1.012e+007 Intensity

1372 Extracted

191.16

114.1789 m/z, 72434493.028 Intensity

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.372	823			Extracted	Average		0.000	1.0000	7040537 600000	191.16

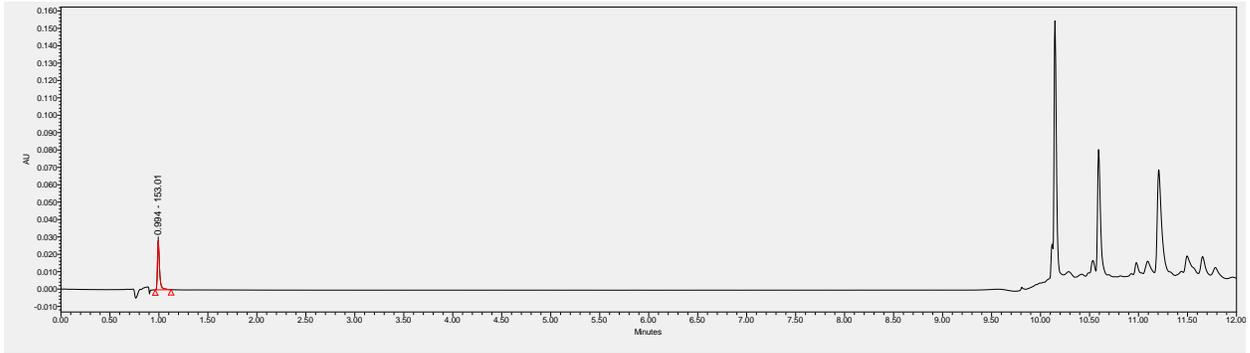
3D Channels / 2D Channels / Peaks / Fractions

Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

9:37 AM 3/9/2018

1-3 LC PDA Detector Data with Integrated Peak



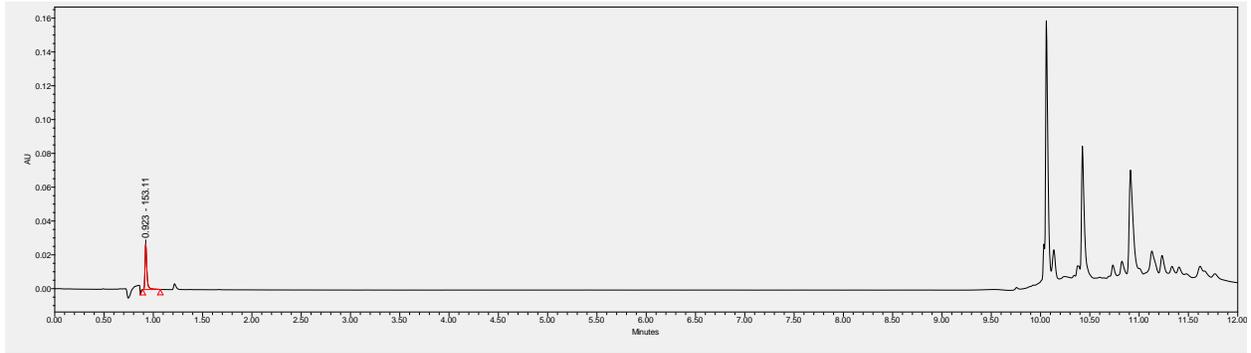
Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.994	41530	100.00	28142	bb			Unknown

1-3 Mass Spectrum

Name	Retention Time (min)	MS Match1 (Spec Name)	MS Match1 (Lib. Name)	MS Match1 (P.M. F#)	MS Match1 (% Contamination)	Area (µV*sec)	% Area	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes
1	1.000								Extracted				

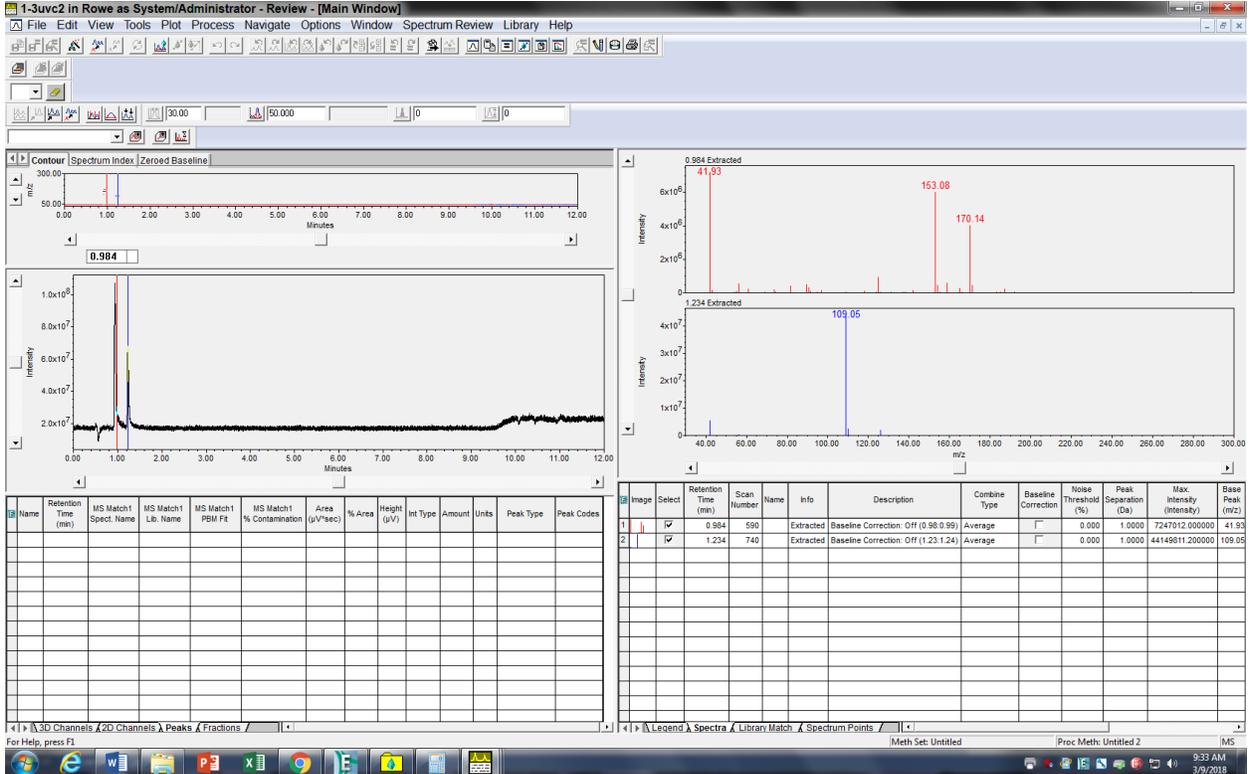
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.000	600	Extracted		Baseline Correction: Off (1.00:1.00)	Average	<input type="checkbox"/>	0.000	1.0000	44905100.8000000	153.02

1-3 UV-C LC PDA Detector Data with Integrated Peak

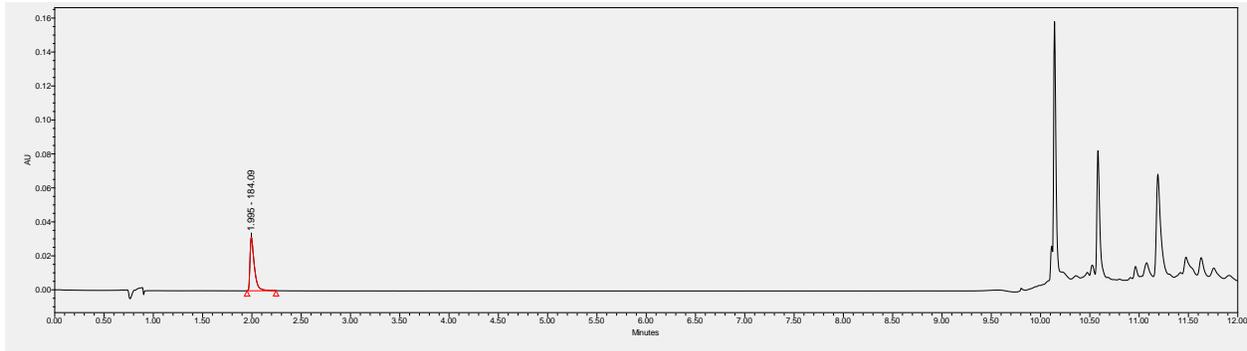


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.923	34905	100.00	26968	bb			Unknown

1-3 UVC Mass Spectrum



1-6 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.995	95629	100.00	31613	bb			Unknown

1-6 Mass Spectrum

1-6ad2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

2.060

2.061 Extracted

184.10

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	2.061	1236	Extracted	Baseline Correction: Off (2.06-2.06)	Average			0.000	1.0000	30213596.800000	184.10

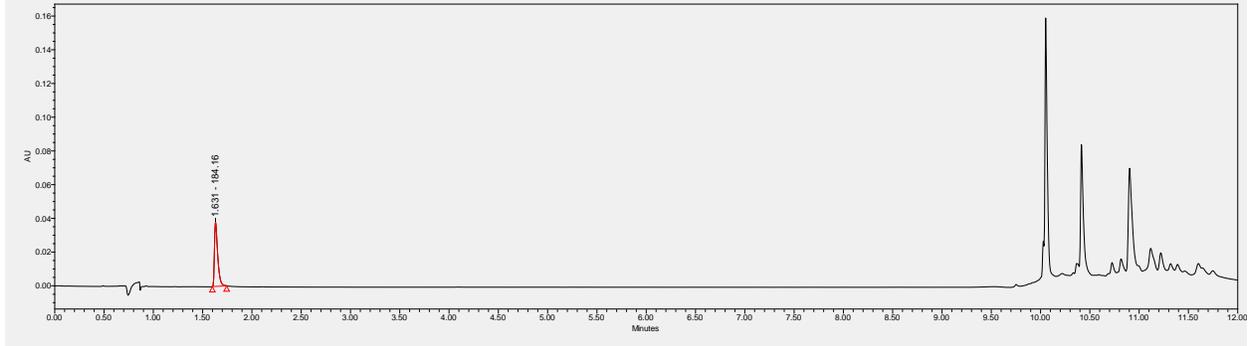
3D Channels 2D Channels Peaks Fractions

Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

9:50 AM 3/8/2018

1-6 UV-C LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.631	87632	100.00	38137	bb			Unknown

1-6 UVC Mass Spectrum

1-6uv2c In Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.000 50.000 0 0

Contour [Spectrum Index] Zeroed Baseline

1.664

11.3746 Minutes: 2.448e+007 Intensity

1.664 Extracted

184.17

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity	Base Peak (m/z)
1	<input checked="" type="checkbox"/>	1.664	998	Extracted		Baseline Correction: Off (1.66:1.67)	Average	<input type="checkbox"/>	0.000	1.0000	52859360.000000	184.17

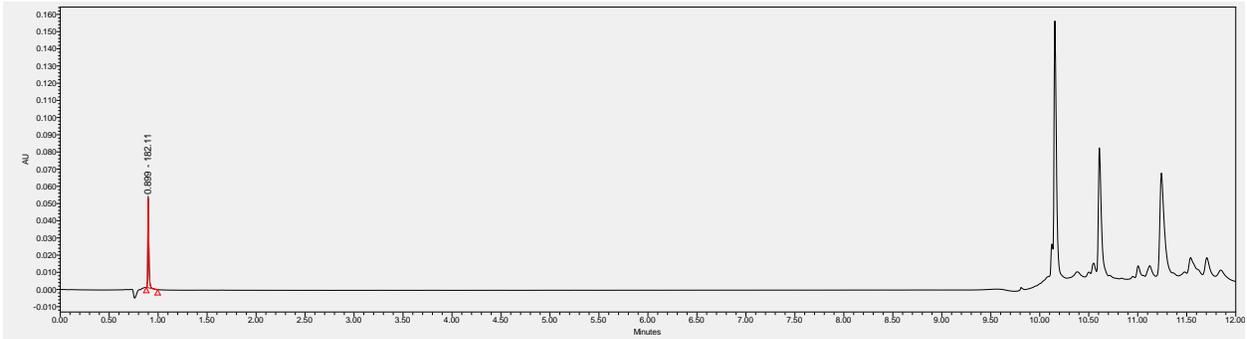
3D Channels 2D Channels Peaks Fractions

Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

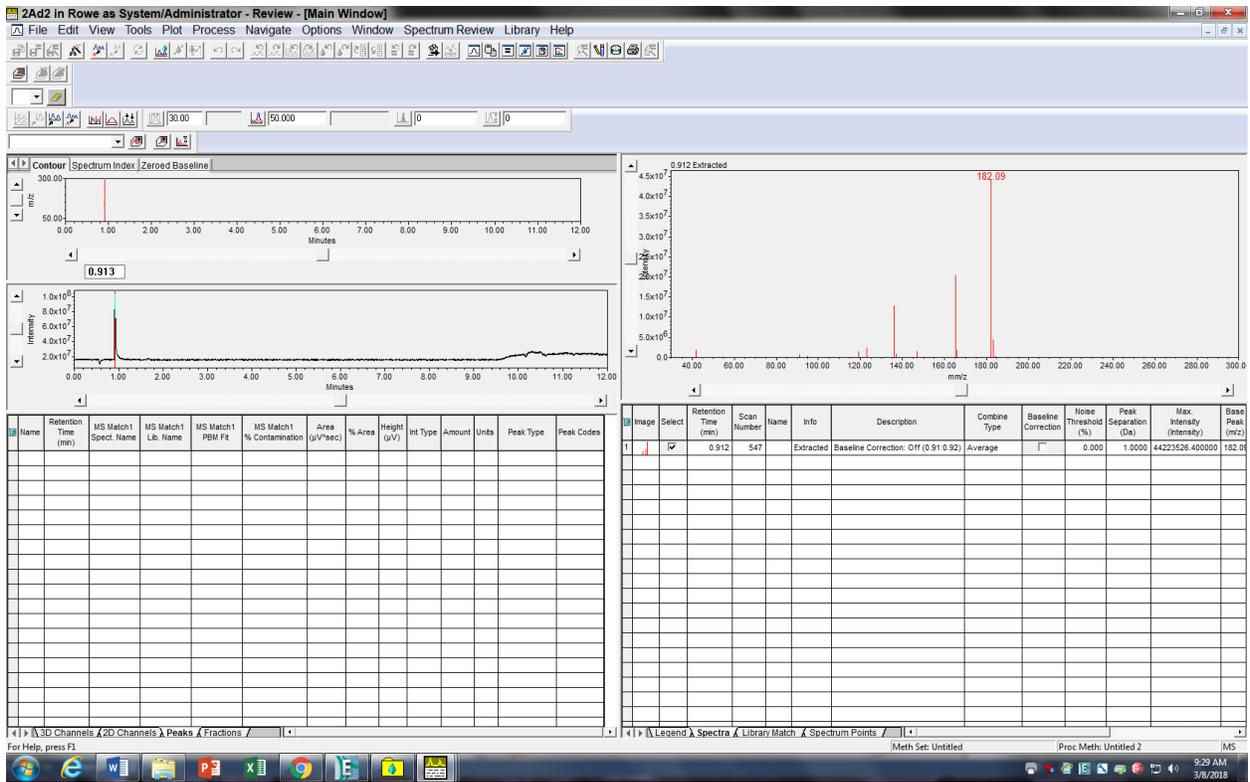
9:32 AM 3/9/2018

2 LC PDA Detector Data with Integrated Peak

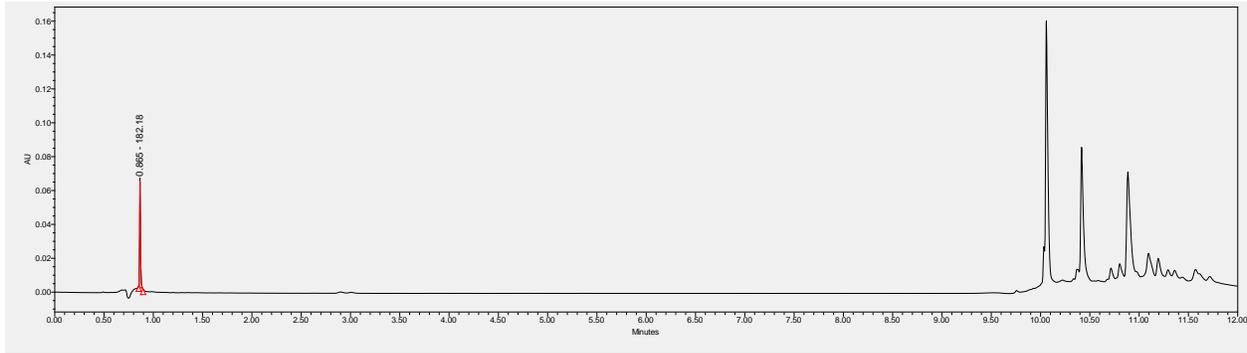


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.899	39379	100.00	52026	bb			Unknown

2 Mass Spectrum

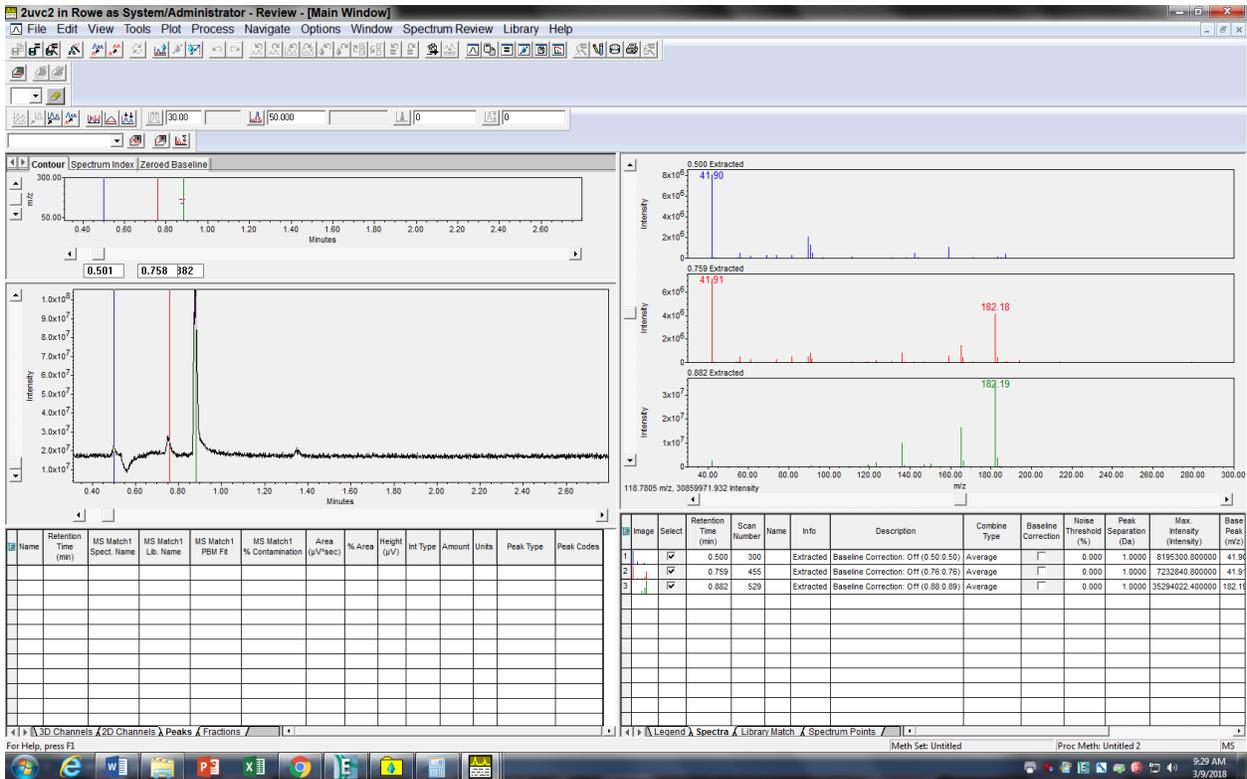


2 UV-C LC PDA Detector Data with Integrated Peak

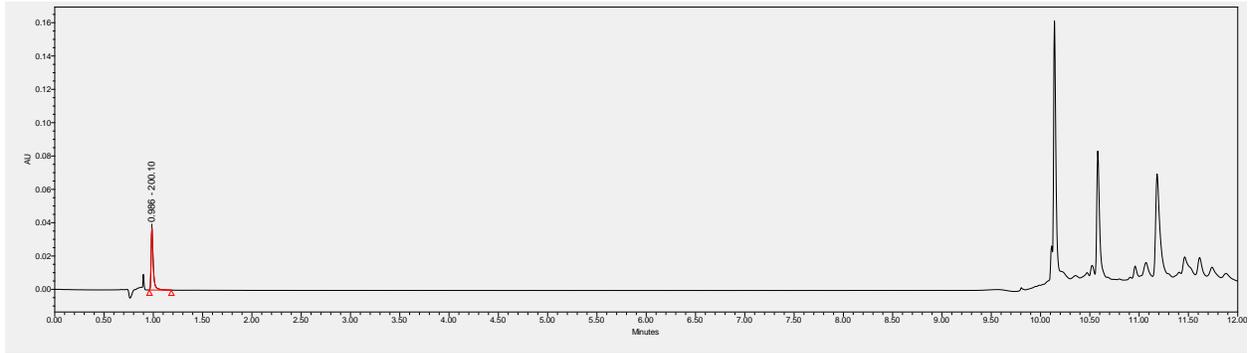


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.865	39576	100.00	62193	bb			Unknown

2 UVC Mass Spectrum

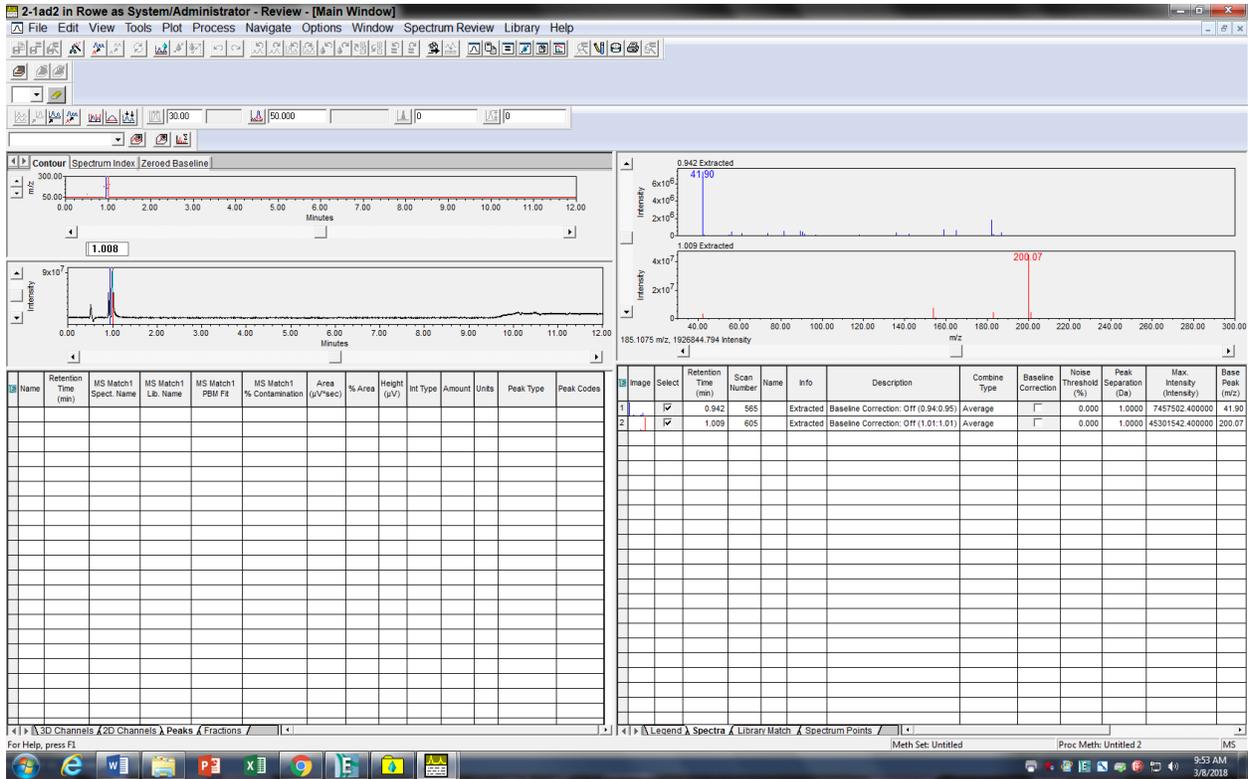


2-1 LC PDA Detector Data with Integrated Peak

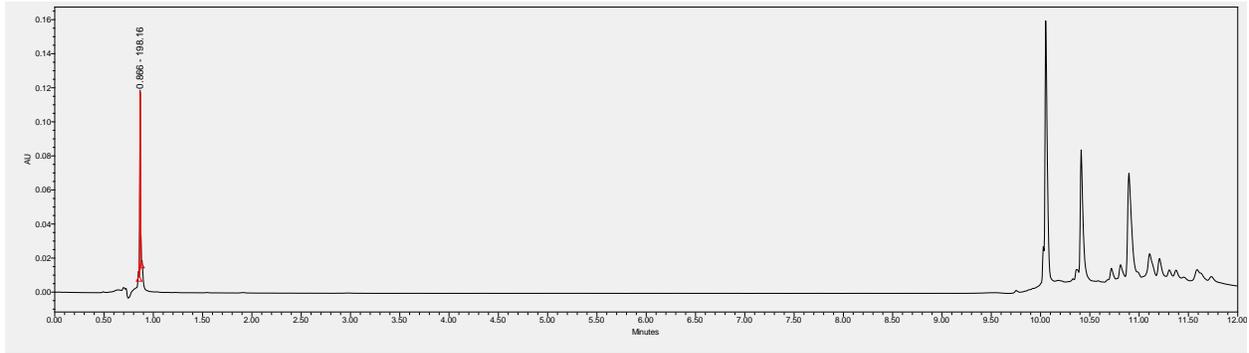


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.986	55681	100.00	37139	bb			Unknown

2-1 Mass Spectrum

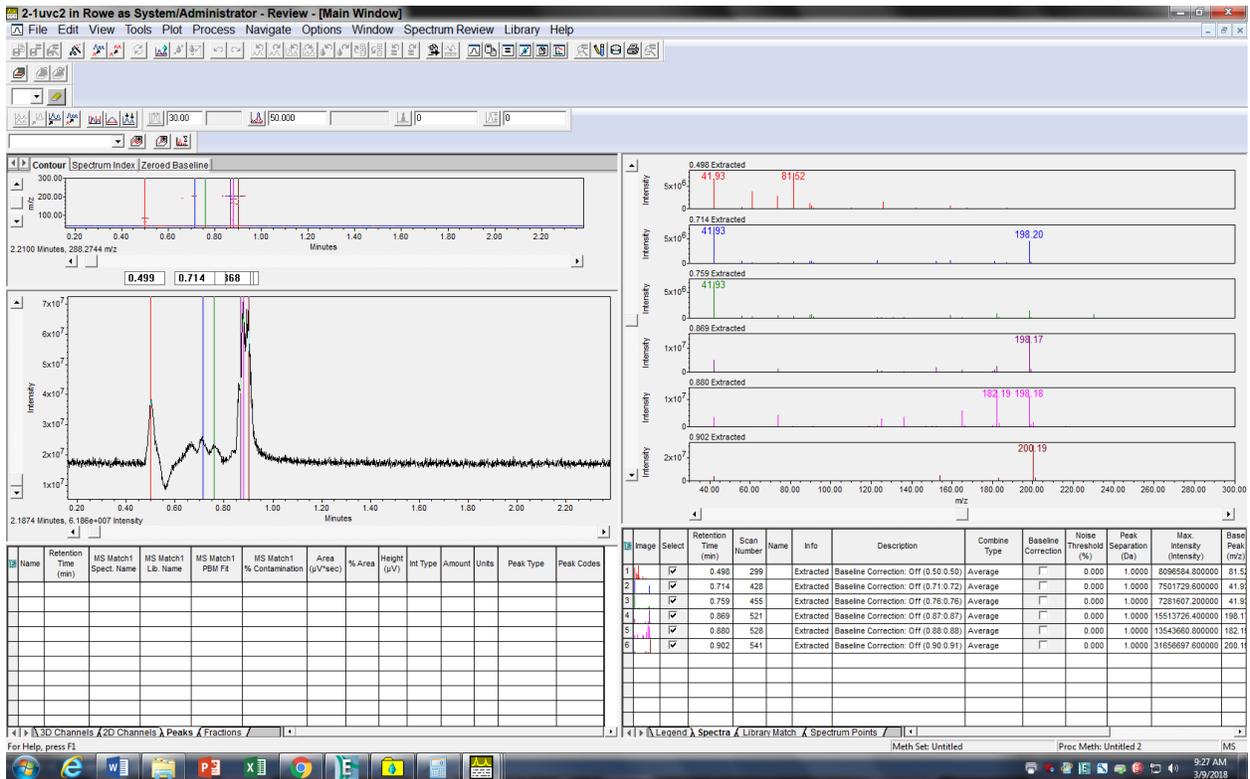


2-1 UV-C LC PDA Detector Data with Integrated Peak

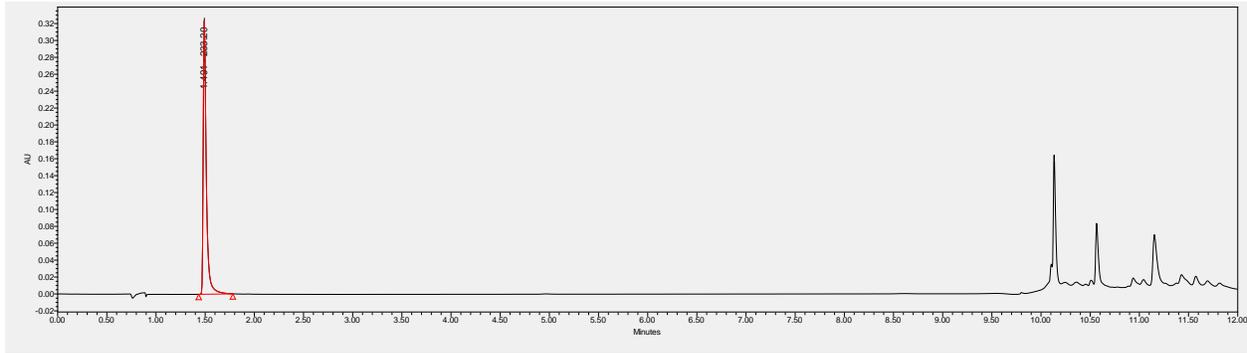


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.866	59089	100.00	105079	bb			Unknown

2-1 UVC Mass Spectrum

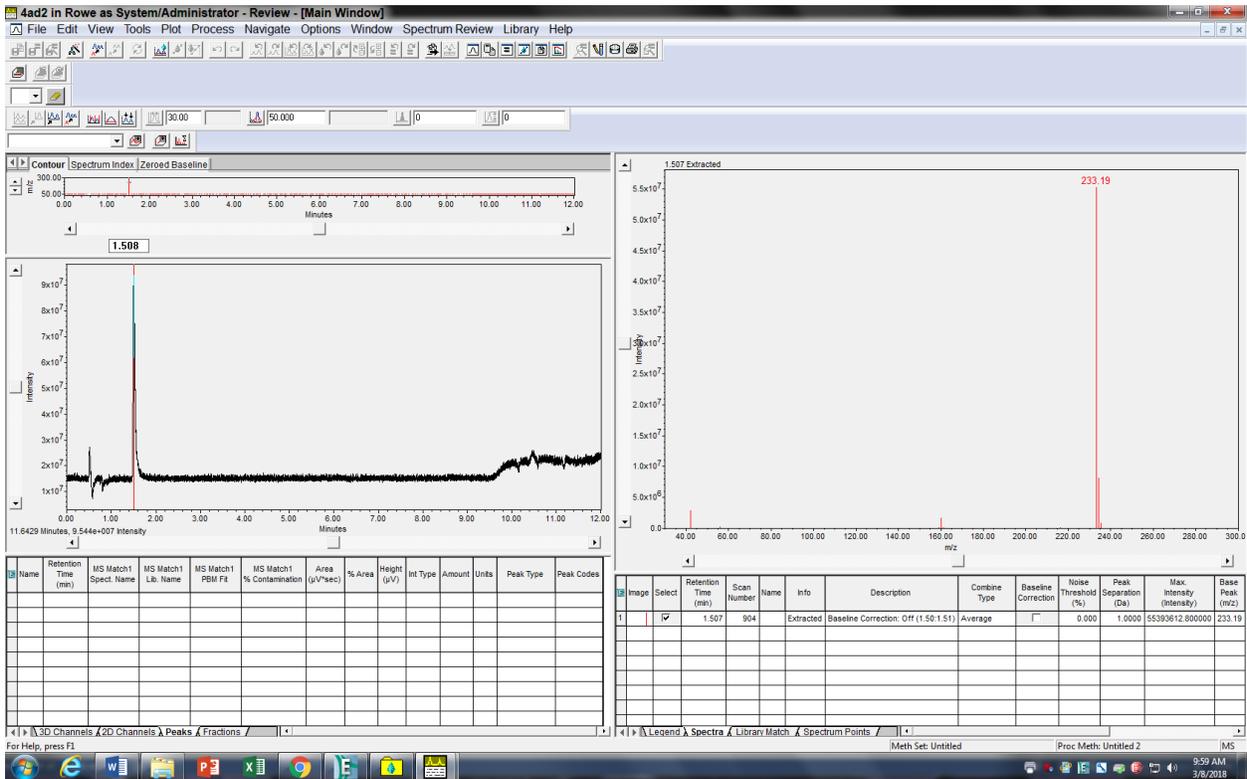


4 LC PDA Detector Data with Integrated Peak

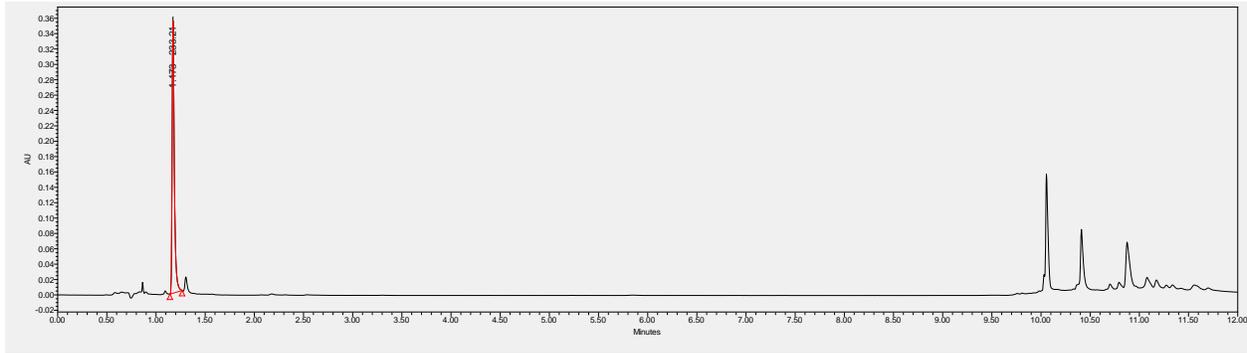


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.491	716988	100.00	323502	bb			Unknown

4 Mass Spectrum

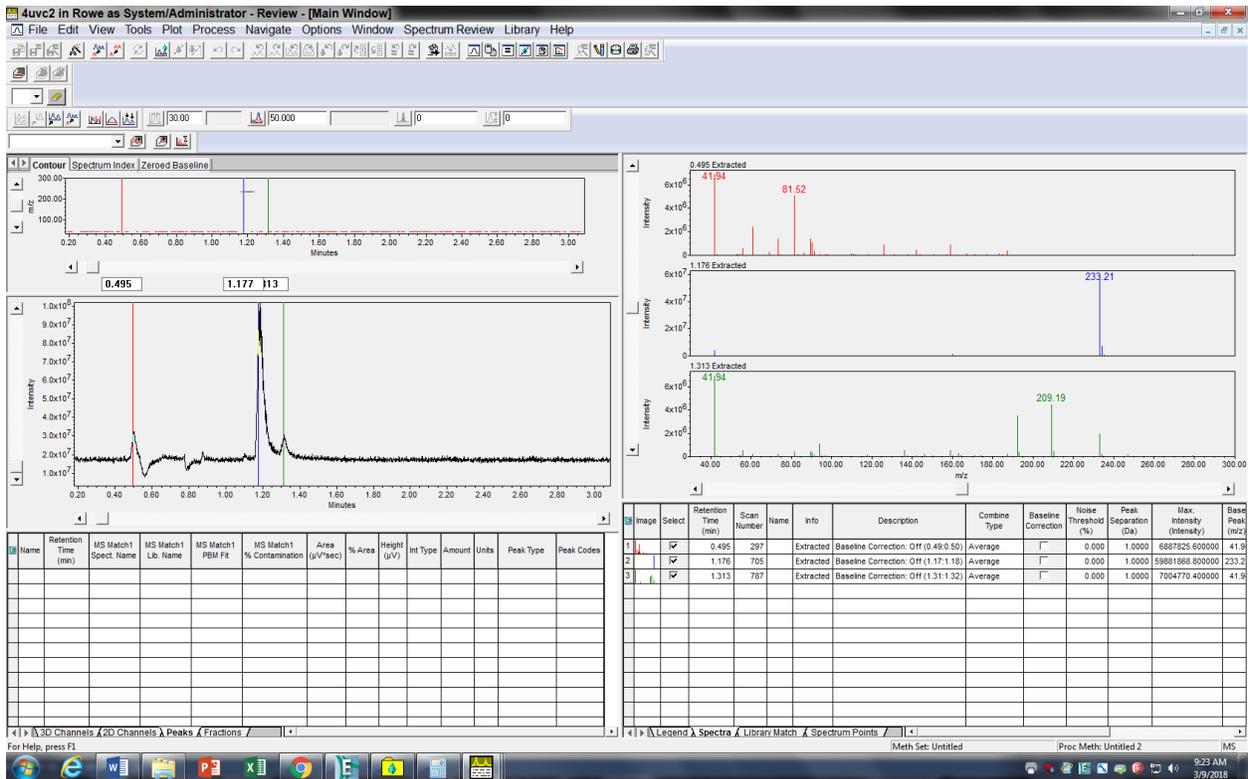


4 UV-C LC PDA Detector Data with Integrated Peak

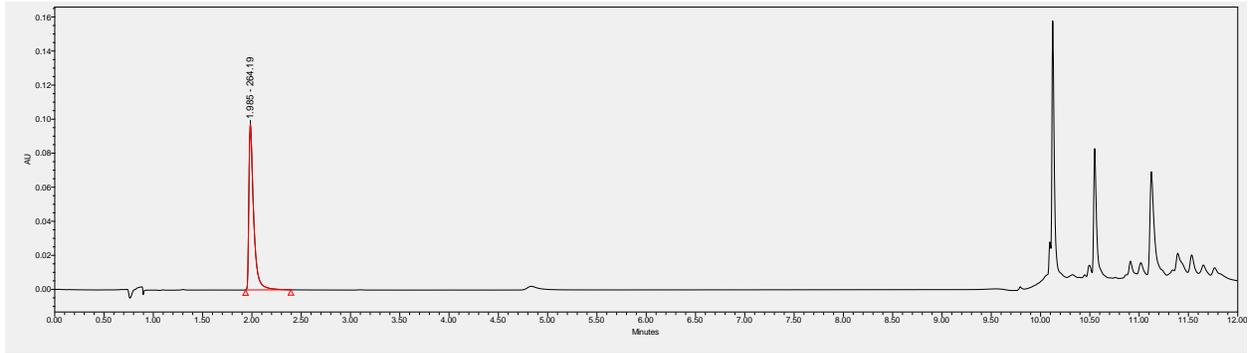


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.173	555588	100.00	354331	bb			Unknown

4 UVC Mass Spectrum

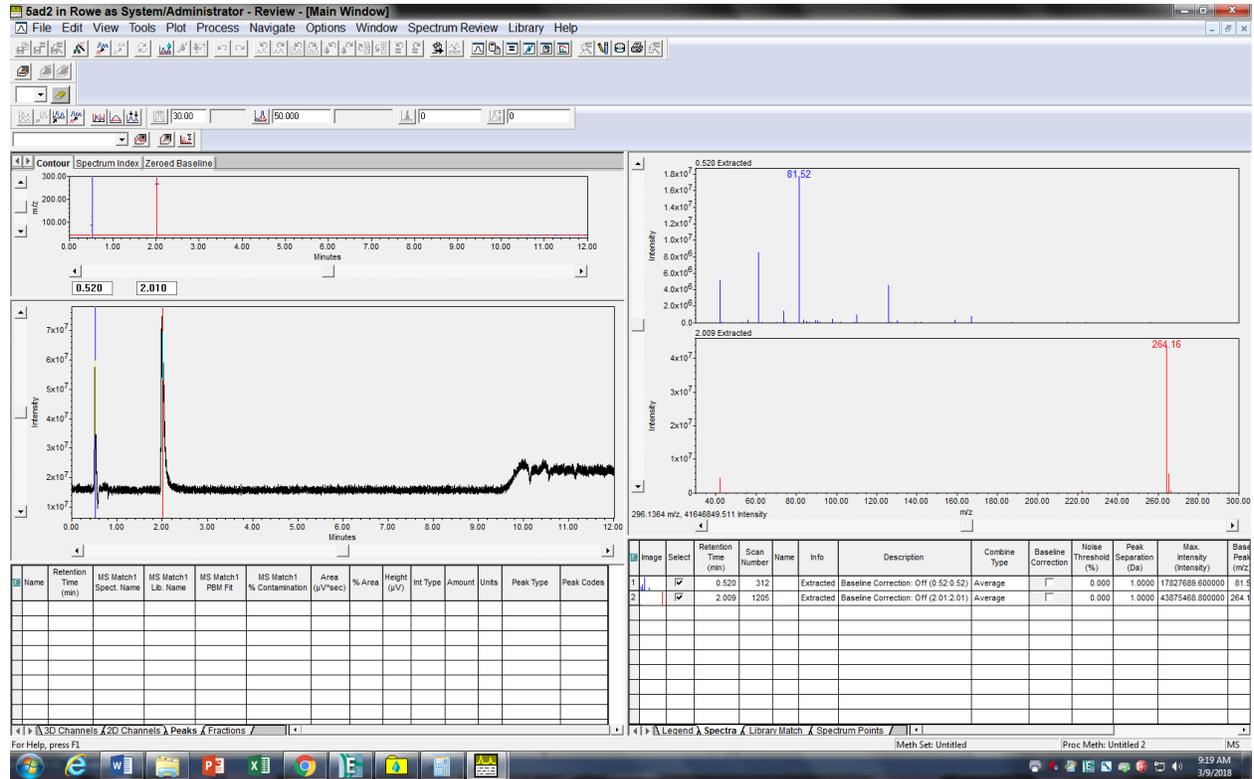


5 LC PDA Detector Data with Integrated Peak

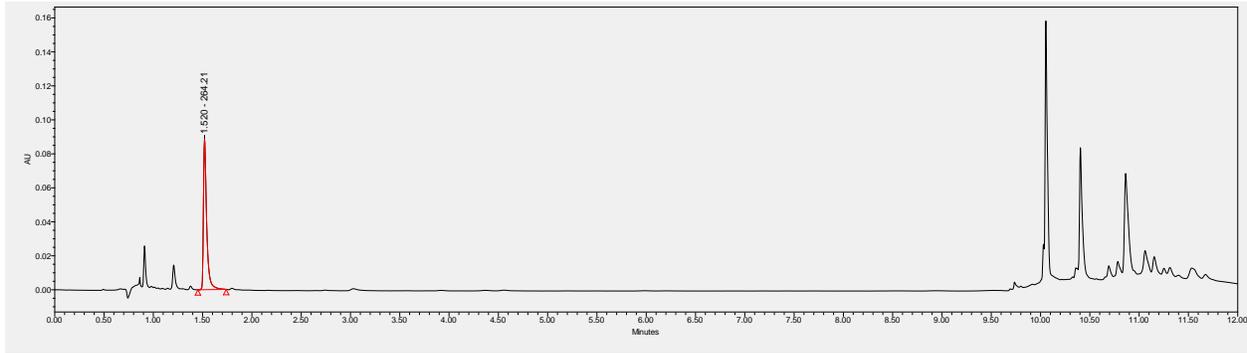


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	1.985	327286	100.00	97203	bb			Unknown

5 Mass Spectrum

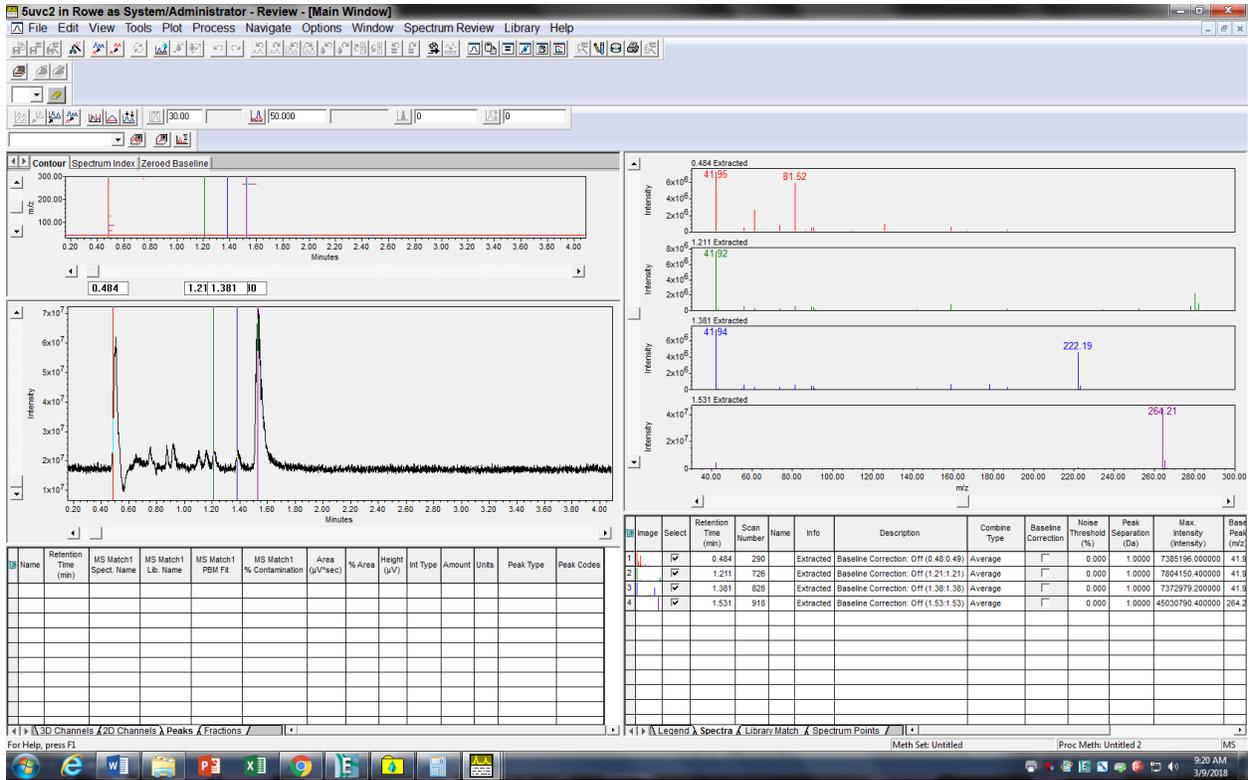


5 UV-C LC PDA Detector Data with Integrated Peak

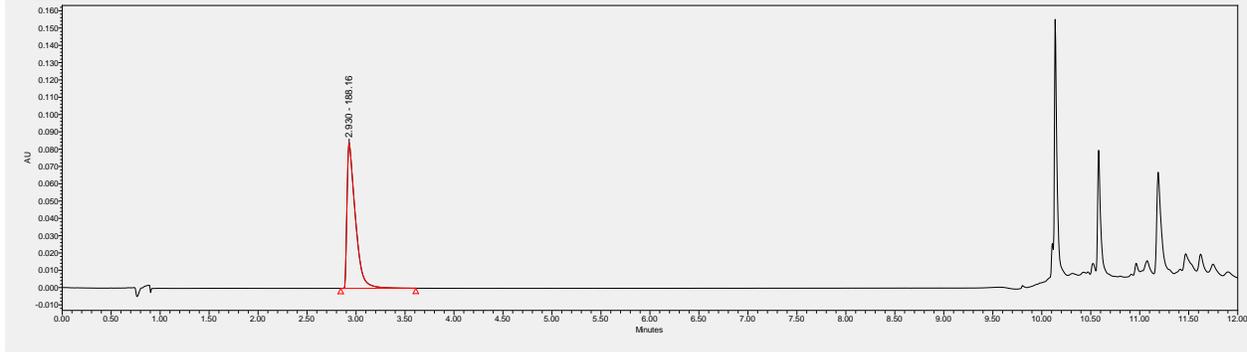


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.520	203226	100.00	88505	bb			Unknown

5 UVC Mass Spectrum

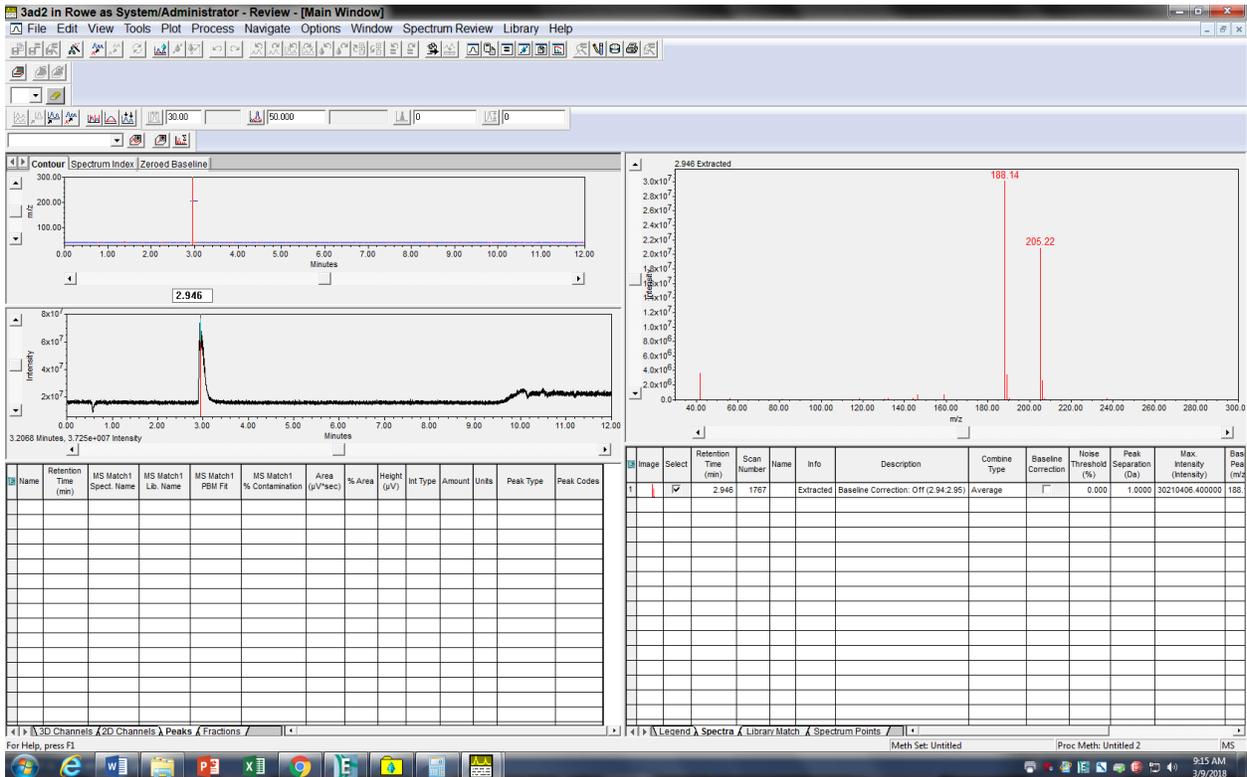


3 LC PDA Detector Data with Integrated Peak

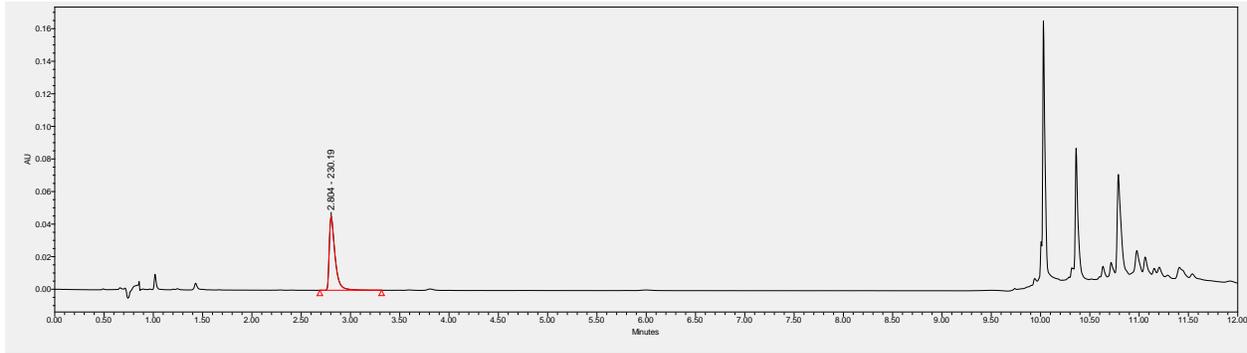


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.930	495936	100.00	83955	bb			Unknown

3 Mass Spectrum



3-1 UV-C LC PDA Detector Data with Integrated Peak



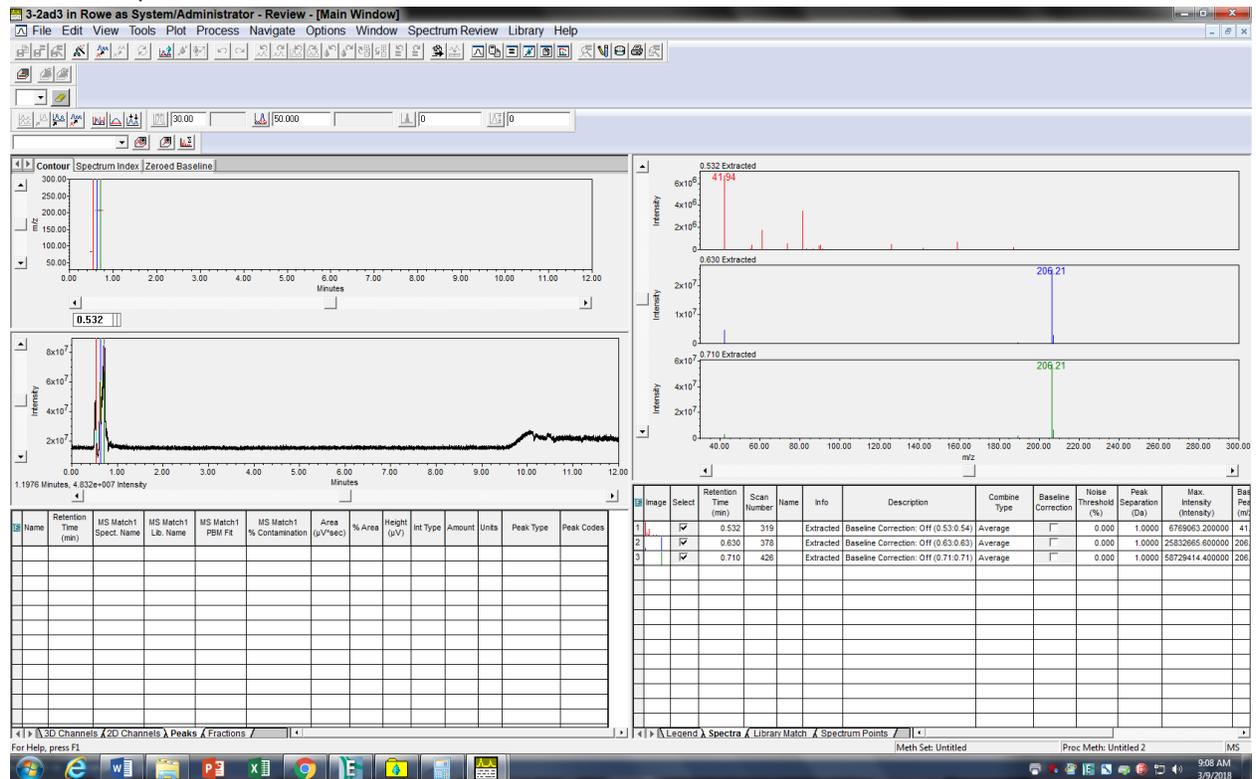
Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	2.804	184039	100.00	45311	bb			Unknown

3-1 UVC Mass Spectrum

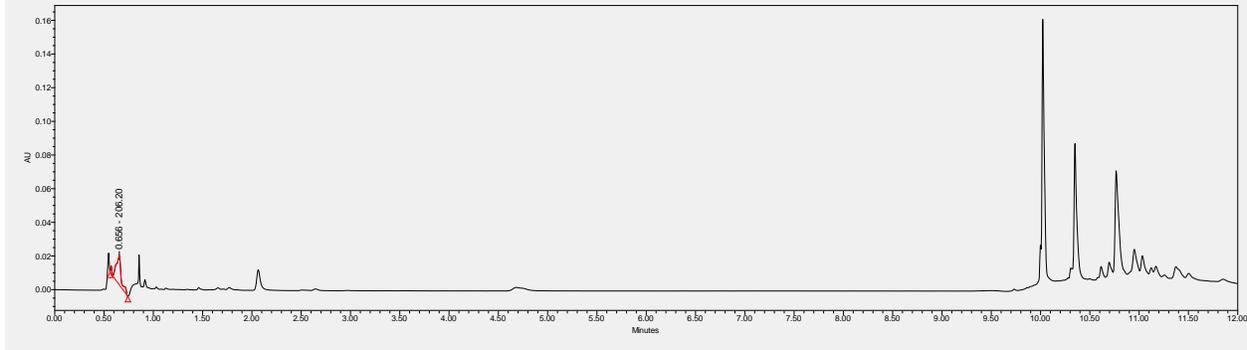
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Peak (m/z)
1	<input checked="" type="checkbox"/>	2.796	1677		Extracted	Baseline Correction: Off (2.792,2.80)	Average	<input type="checkbox"/>	0.000	1.0000	23972262.400000	230

3-2 LC PDA Detector Data with Integrated Peak

3-2 Mass Spectrum



3-2 UV-C LC PDA Detector Data with Integrated Peak



Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.656	62342	100.00	17492	bb			Unknown

3-2 UVC Mass Spectrum

3-2uvvc2 in Rowe as System Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour [Spectrum Index] Zeroed Baseline

0.505 95 0.656

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Ref. Peak (m/z)
1	<input checked="" type="checkbox"/>	0.505	303	Extracted	Baseline Correction: Off (0.50:0.51)	Average	<input type="checkbox"/>	0.000	1.0000	16096017.600000	81	
2	<input checked="" type="checkbox"/>	0.556	357	Extracted	Baseline Correction: Off (0.55:0.60)	Average	<input type="checkbox"/>	0.000	1.0000	21709568.000000	206	
3	<input checked="" type="checkbox"/>	0.654	392	Extracted	Baseline Correction: Off (0.65:0.66)	Average	<input type="checkbox"/>	0.000	1.0000	44995737.600000	206	
4	<input checked="" type="checkbox"/>	0.669	521	Extracted	Baseline Correction: Off (0.67:0.67)	Average	<input type="checkbox"/>	0.000	1.0000	7622296.400000	179	

3D Channels / 2D Channels / Peaks / Fractions /

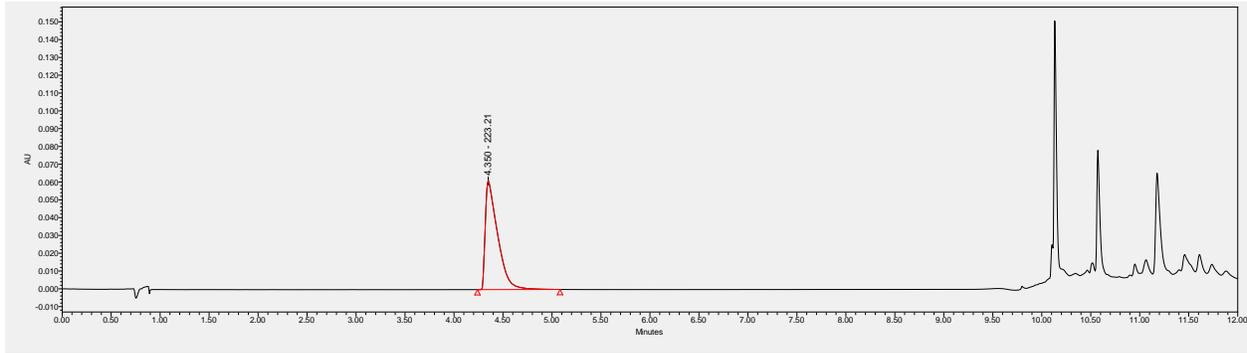
For Help, press F1

Legend Spectra / Library Match / Spectrum Points /

Meth Set: Untitled Proc Meth: Untitled 2 IMS

9:09 AM 3/9/2018

3-3 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.350	533792	100.00	61024	bb			Unknown

3-3 Mass Spectrum

3-3ad2 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50.000 0 0

Contour [Spectrum Index] Zeroed Baseline

4.357 Extracted

206.17 223.22

Name	Retention Time (min)	MS Match1 Spect. Name	MS Match1 Lib. Name	MS Match1 PBM Fit	MS Match1 % Contamination	Area (µV*sec)	% Area	Height (µV)	Int Type	Amount	Units	Peak Type	Peak Codes
1	4.357												

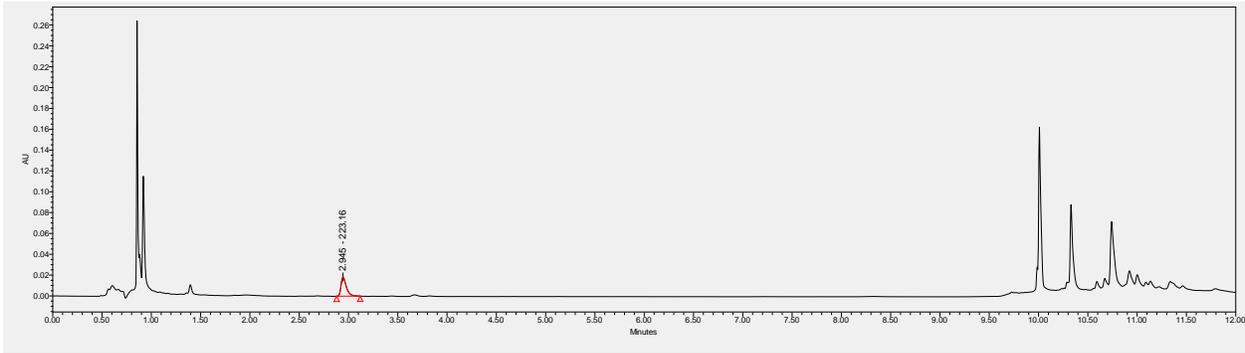
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Ret. (min)
1	<input checked="" type="checkbox"/>	4.357	2613	Extracted	Baseline Correction: Off (4.35:4.36)	Average	<input type="checkbox"/>	0.000	1.0000	25348886.400000	223	

3D Channels / 2D Channels / Peaks / Fractions / Legend / Spectra / Library Match / Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 IMS

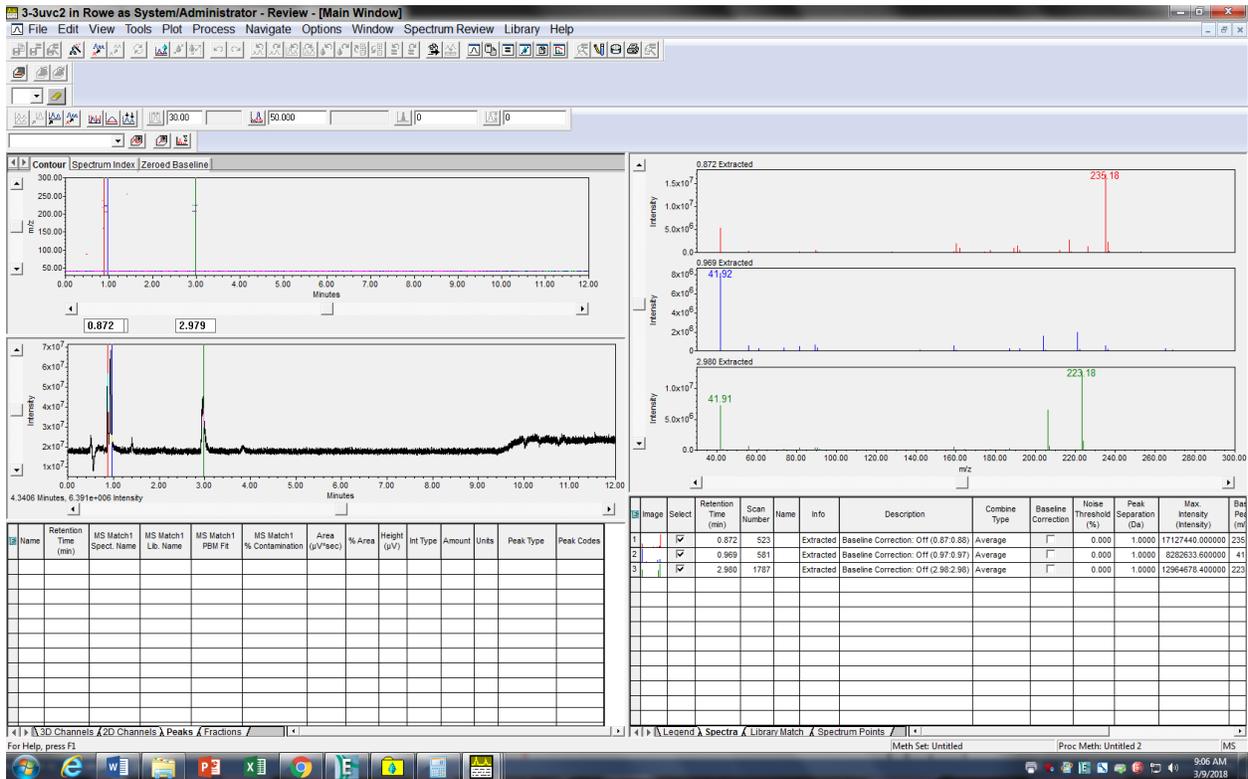
9:05 AM 3/9/2018

3-3 UV-C LC PDA Detector Data with Integrated Peak

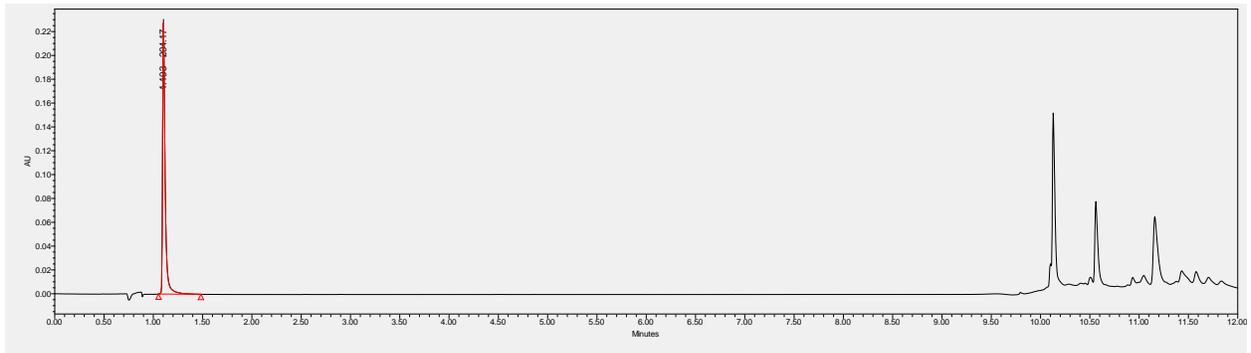


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.945	68888	100.00	18426	bb			Unknown

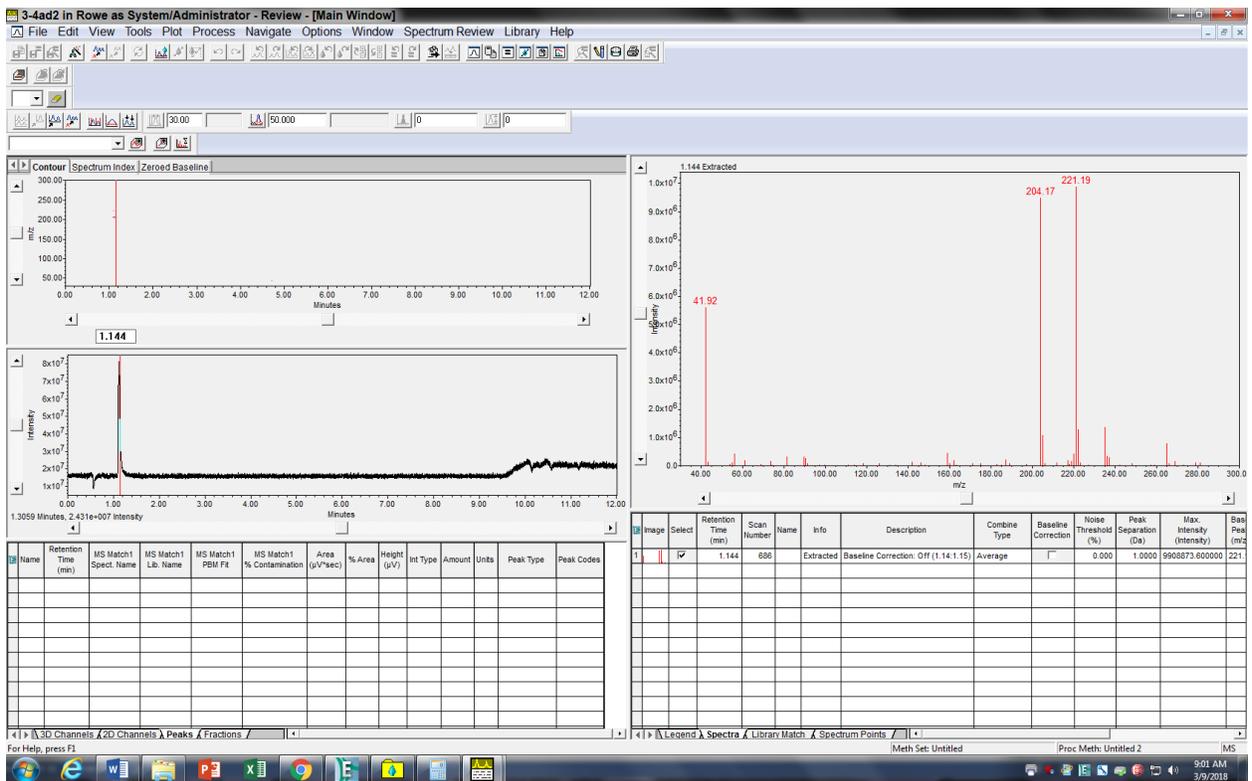
3-3 UVC Mass Spectrum



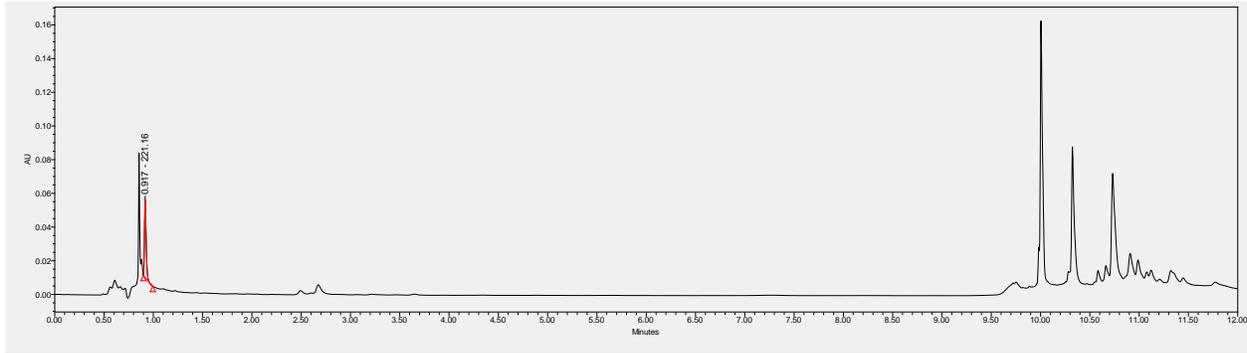
3-4 LC PDA Detector Data with Integrated Peak



3-4 Mass Spectrum

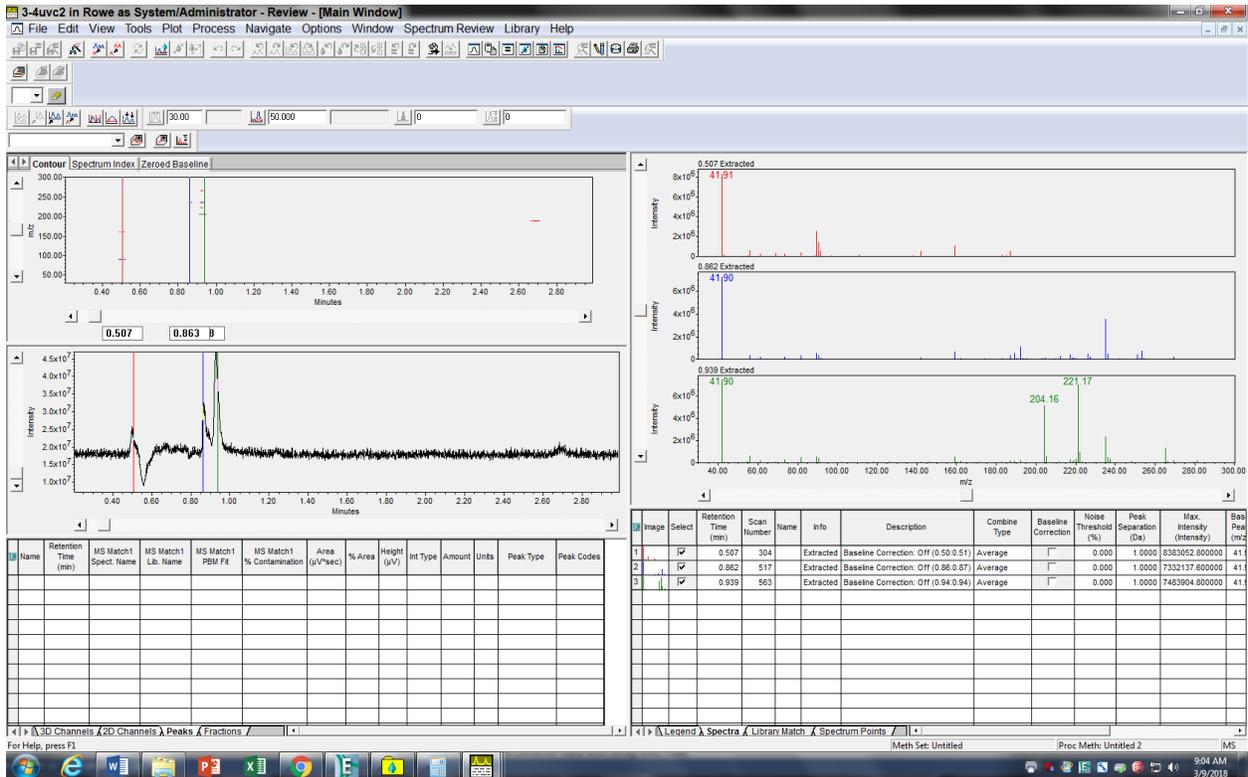


3-4 UV-C LC PDA Detector Data with Integrated Peak

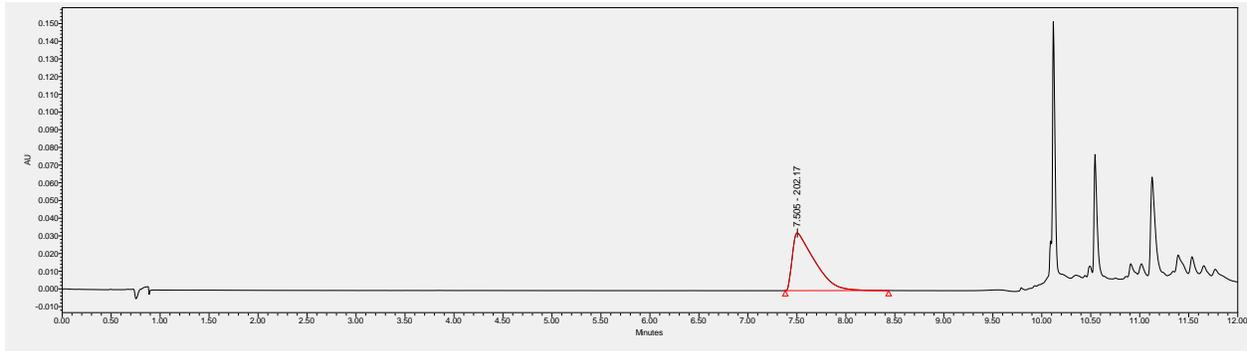


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.917	54423	100.00	45847	bb			Unknown

3-4 UVC Mass Spectrum

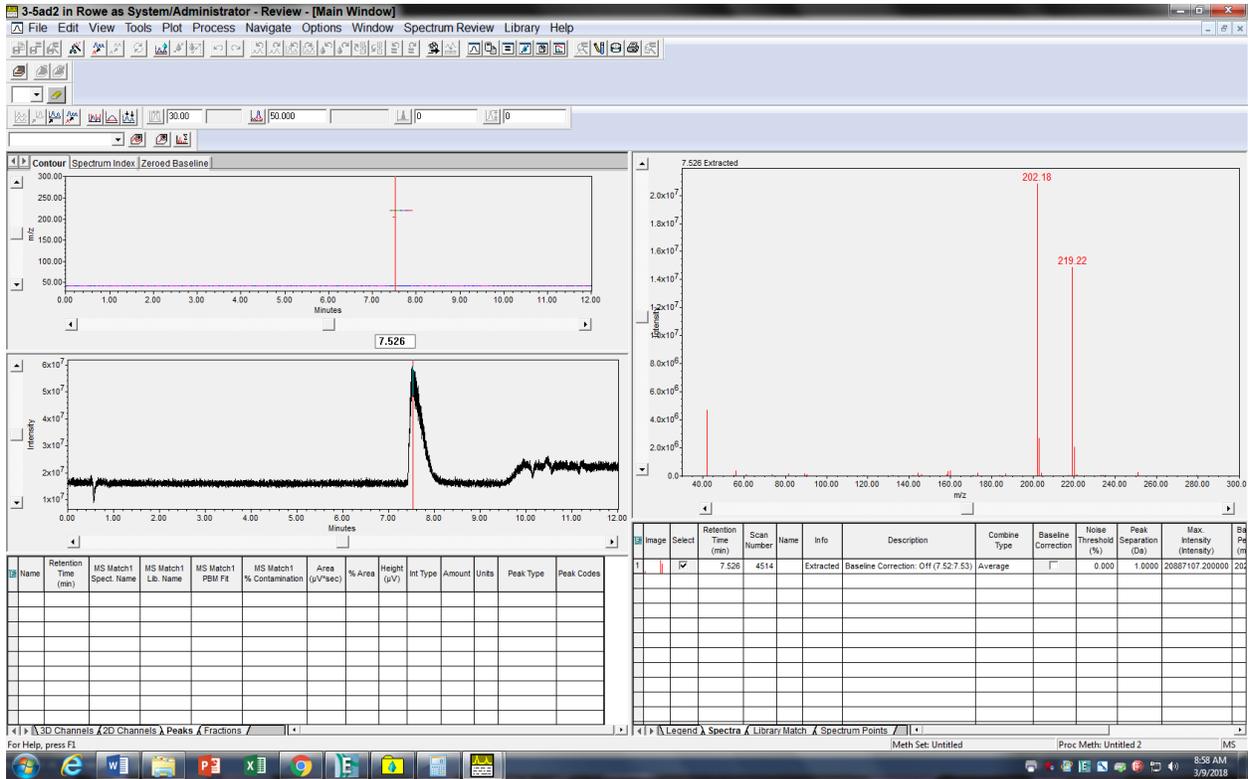


3-5 LC PDA Detector Data with Integrated Peak

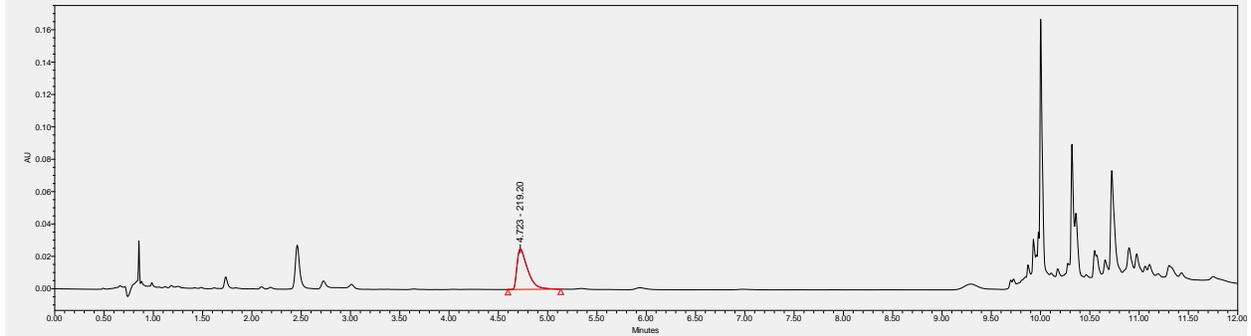


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	7.505	513514	100.00	32606	bb			Unknown

3-5 Mass Spectrum



3-5 UV-C LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.723	186241	100.00	25162	bb			Unknown

3-5 UVC Mass Spectrum

3-5uvc2 in Rowe as System Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

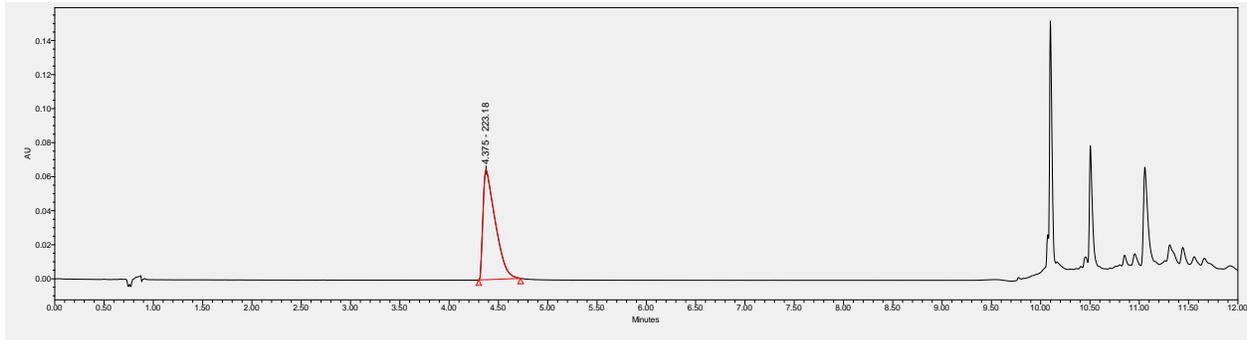
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	BP (m)
1	<input checked="" type="checkbox"/>	2.479	1487	Extracted	Baseline Correction: Off (2.482.48)	Average	<input type="checkbox"/>	0.000	1.0000	8174592.000000	25	
2	<input checked="" type="checkbox"/>	4.720	2831	Extracted	Baseline Correction: Off (4.724.72)	Average	<input type="checkbox"/>	0.000	1.0000	17030960.000000	202	
3	<input checked="" type="checkbox"/>	4.785	2870	Extracted	Baseline Correction: Off (4.784.79)	Average	<input type="checkbox"/>	0.000	1.0000	13701097.600000	202	
4	<input checked="" type="checkbox"/>	5.366	3218	Extracted	Baseline Correction: Off (5.365.37)	Average	<input type="checkbox"/>	0.000	1.0000	8411228.800000	4	
5	<input checked="" type="checkbox"/>	5.979	3586	Extracted	Baseline Correction: Off (5.985.98)	Average	<input type="checkbox"/>	0.000	1.0000	8415140.000000	4	

For Help, press F1

Meth Set: Untitled Proc Meth: Untitled 2 IMS

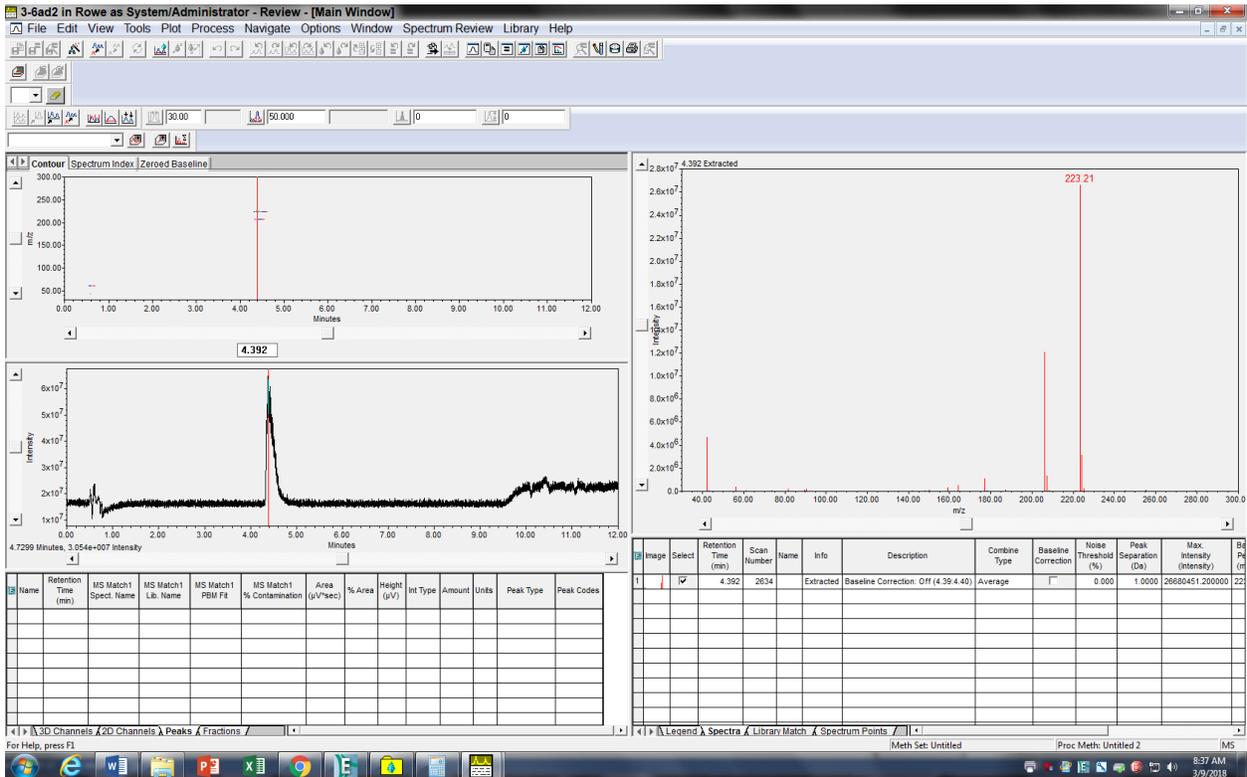
9:00 AM 3/9/2018

3-6 LC PDA Detector Data with Integrated Peak

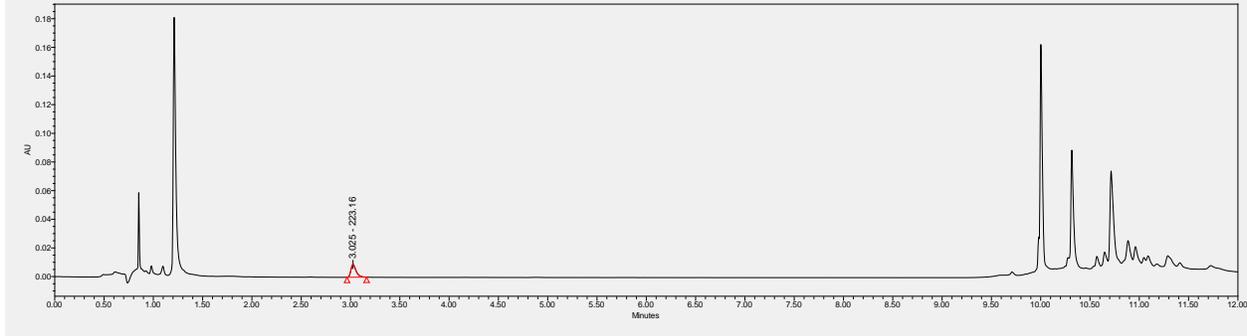


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.375	558204	100.00	64428	bb			Unknown

3-6 Mass Spectrum



3-6 UV-C LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		3.025	32696	100.00	8990	bb			Unknown

3-6 UVC Mass Spectrum

3-6uv2 in Rowe as System Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour | Spectrum Index | Zeroed Baseline

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	B4 Pt (ft)
1	<input checked="" type="checkbox"/>	0.512	307		Extracted	Baseline Correction: Off (0.51-0.52)	Average	<input type="checkbox"/>	0.000	1.0000	856523.200000	4
2	<input checked="" type="checkbox"/>	0.850	510		Extracted	Baseline Correction: Off (0.85-0.85)	Average	<input type="checkbox"/>	0.000	1.0000	8514020.800000	4
3	<input checked="" type="checkbox"/>	1.237	742		Extracted	Baseline Correction: Off (1.231-2.4)	Average	<input type="checkbox"/>	0.000	1.0000	15948107.200000	22
4	<input checked="" type="checkbox"/>	3.056	1833		Extracted	Baseline Correction: Off (3.05-3.06)	Average	<input type="checkbox"/>	0.000	1.0000	8037361.600000	4

11.6055 Minutes, 1.675e+007 Intensity

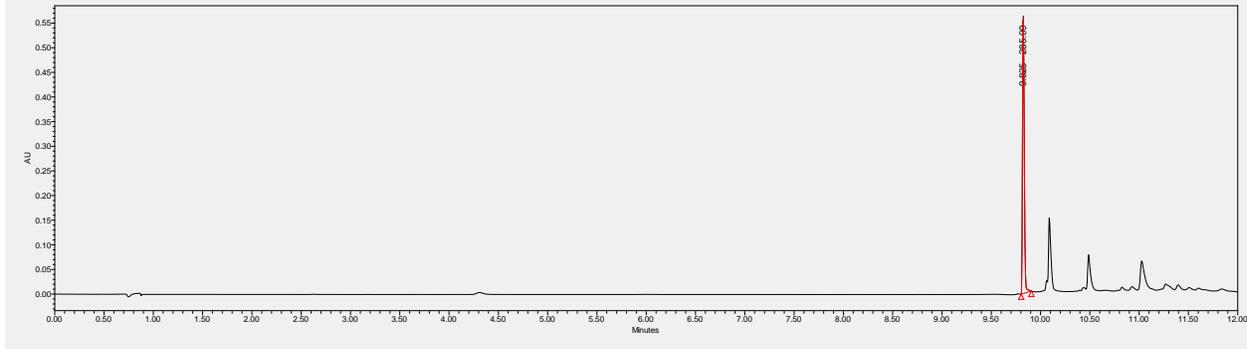
3D Channels A2D Channels Peaks Fractions

Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 MS

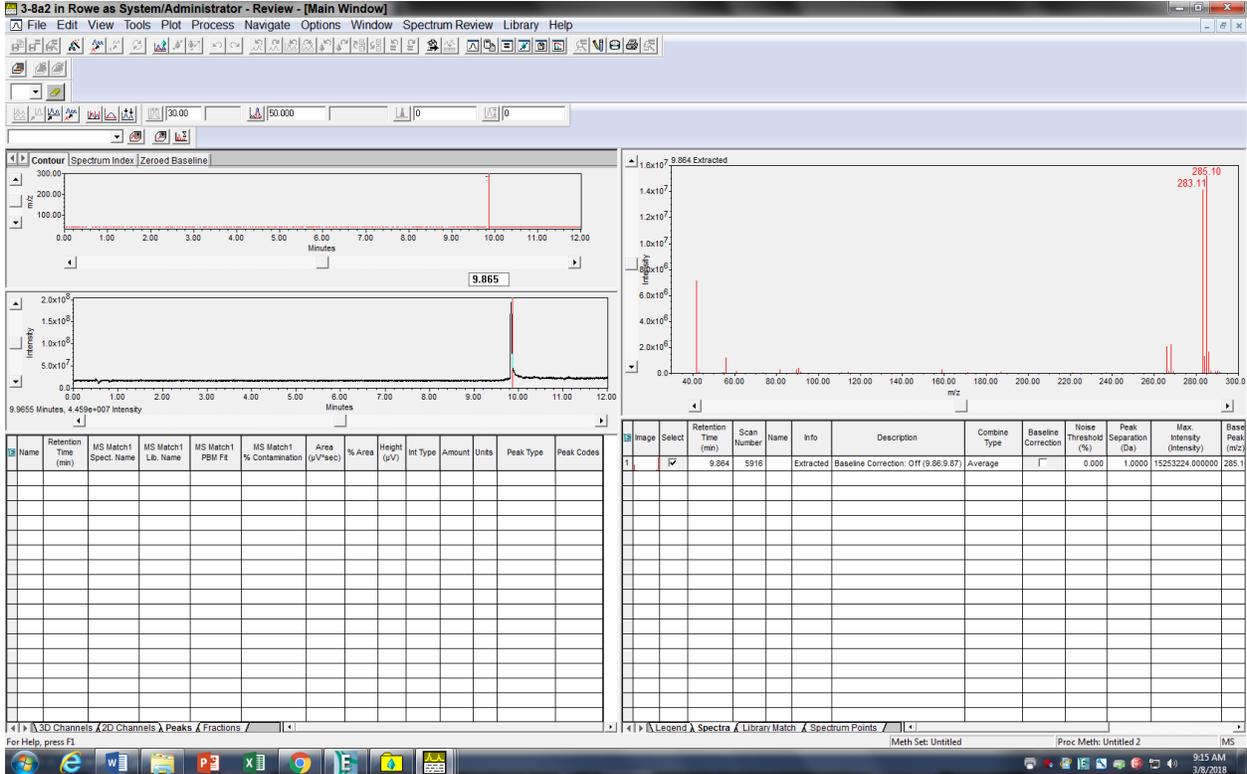
8:39 AM 3/9/2018

3-8 LC PDA Detector Data with Integrated Peak

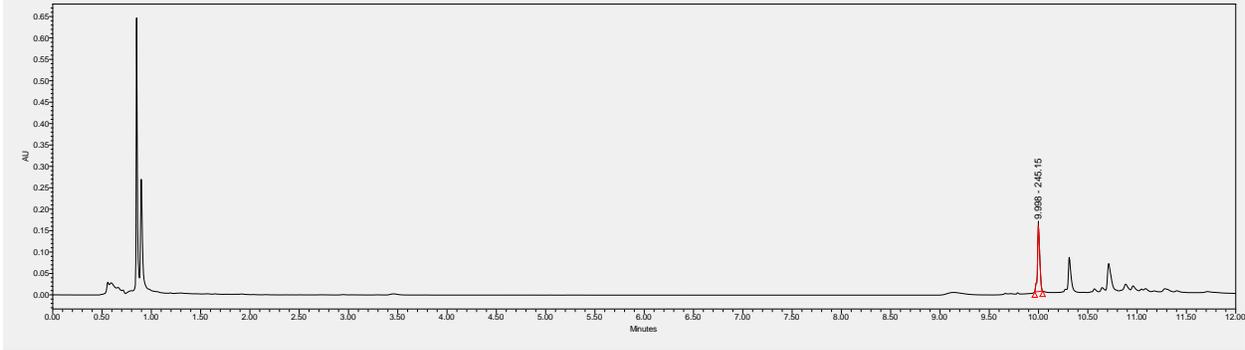


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	9.825	712780	100.00	556087	bb			Unknown

3-8 Mass Spectrum

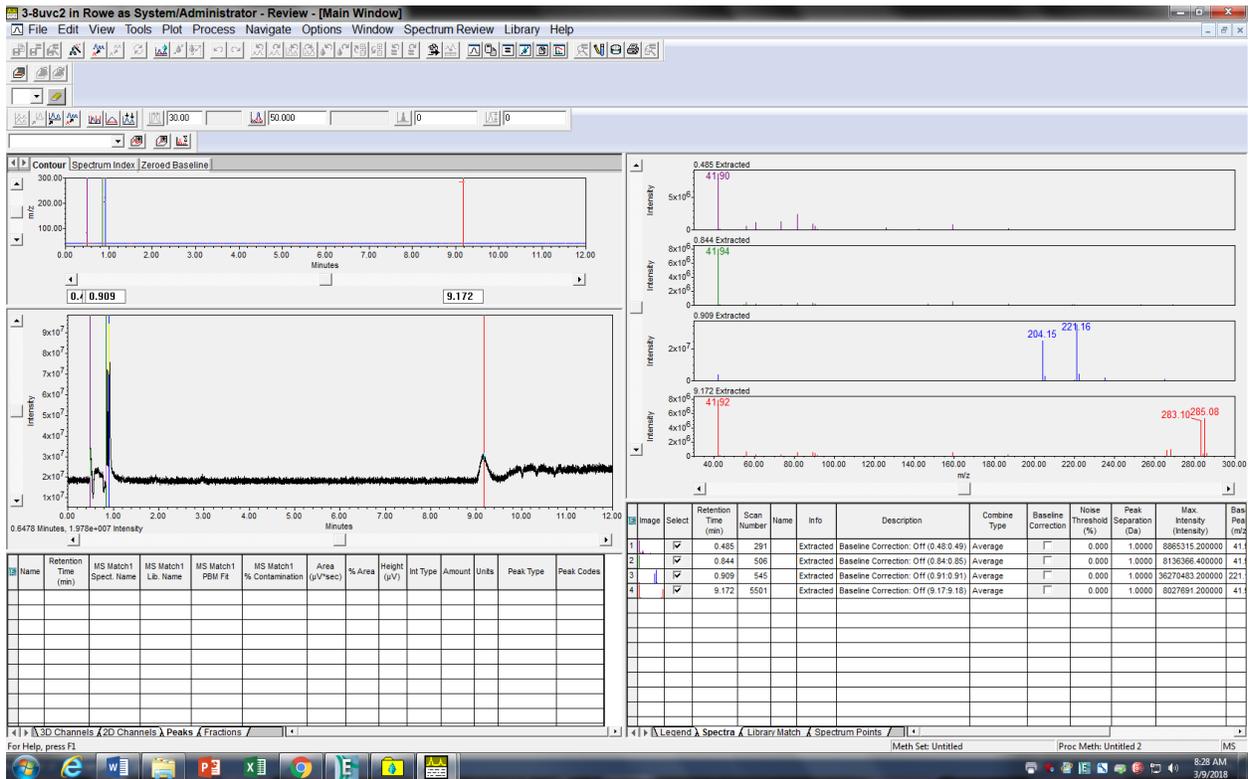


3-8 UV-C LC PDA Detector Data with Integrated Peak

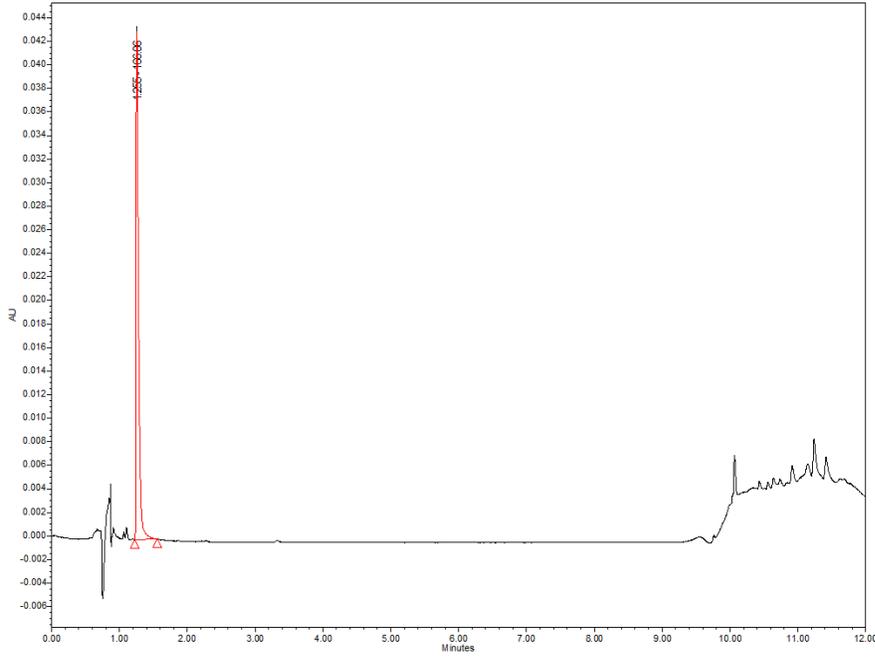


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		9.998	247473	100.00	154777	bb			Unknown

3-8 UVC Mass Spectrum

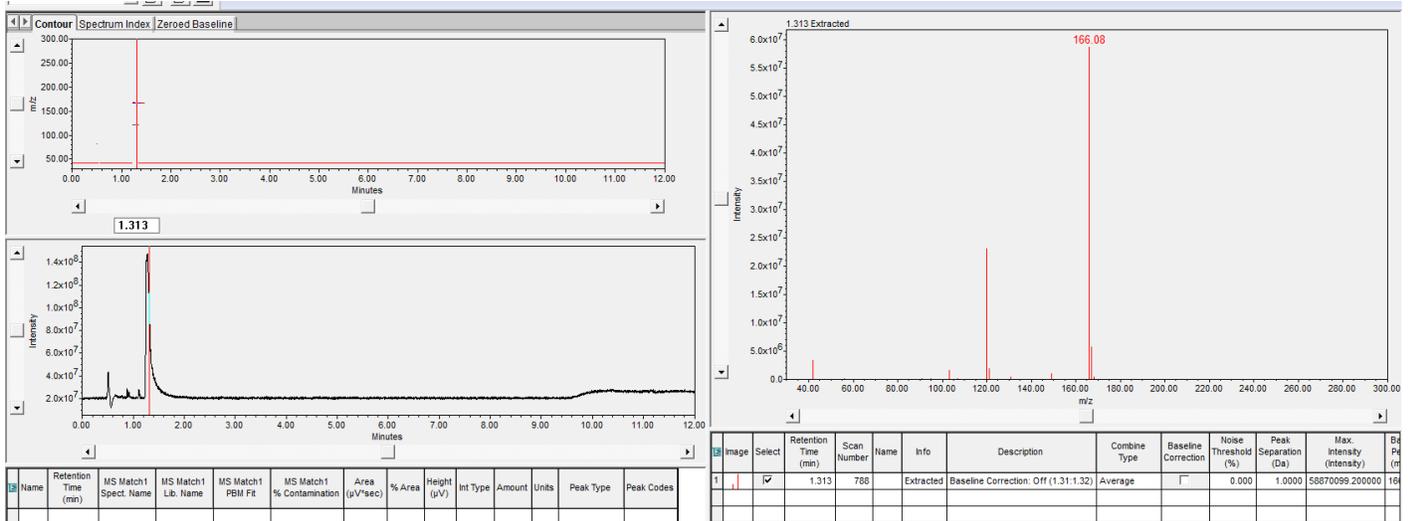


1 low gamma LC PDA Detector Data with Integrated Peak

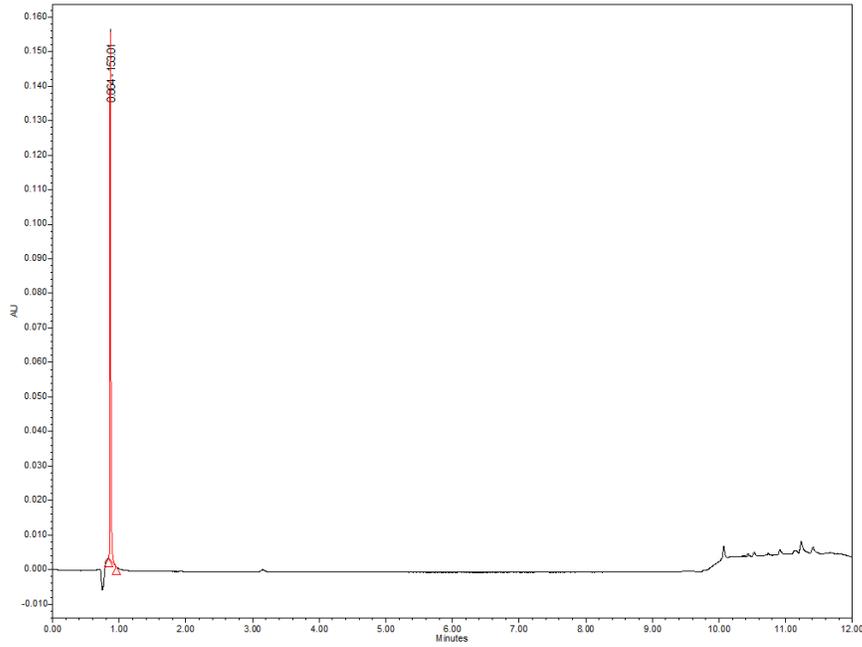


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.255	108865	100.00	43177	bb			Unknown

1 low gamma Mass Spectrum

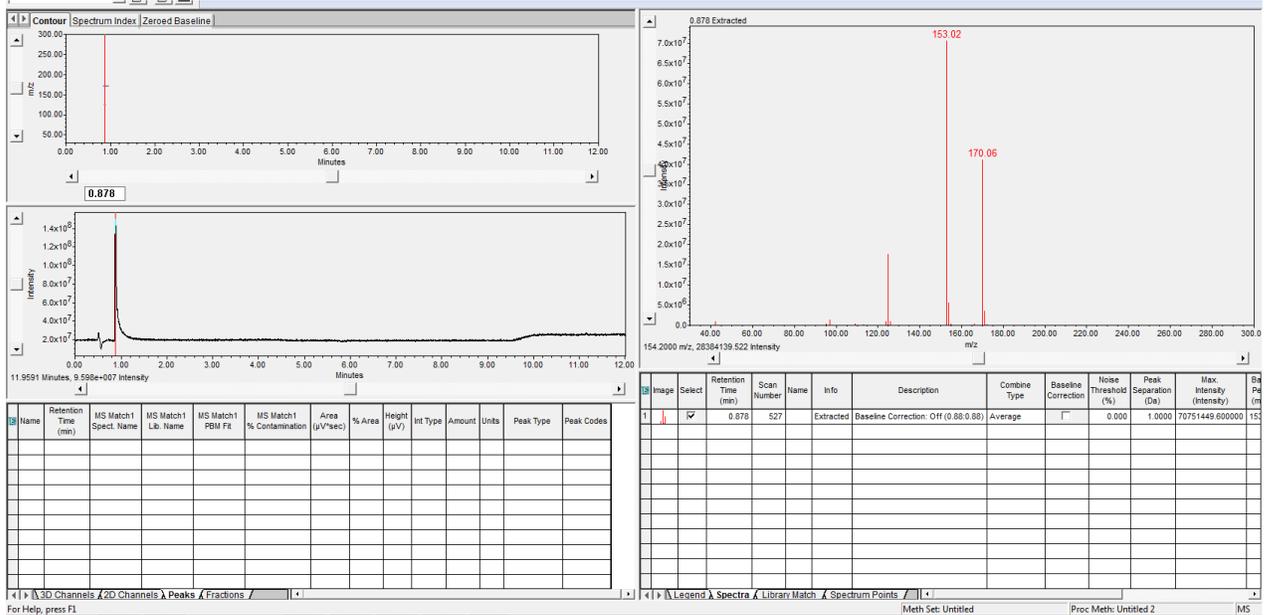


1-3 LC PDA Detector Data with Integrated Peak

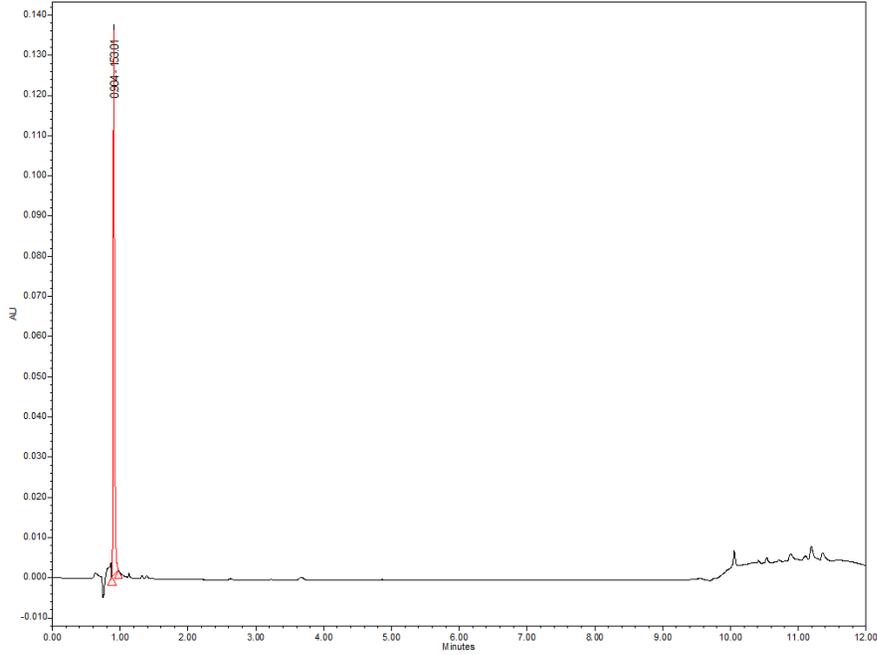


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.864	164670	100.00	152834	bb			Unknown

1-3 Mass Spectrum

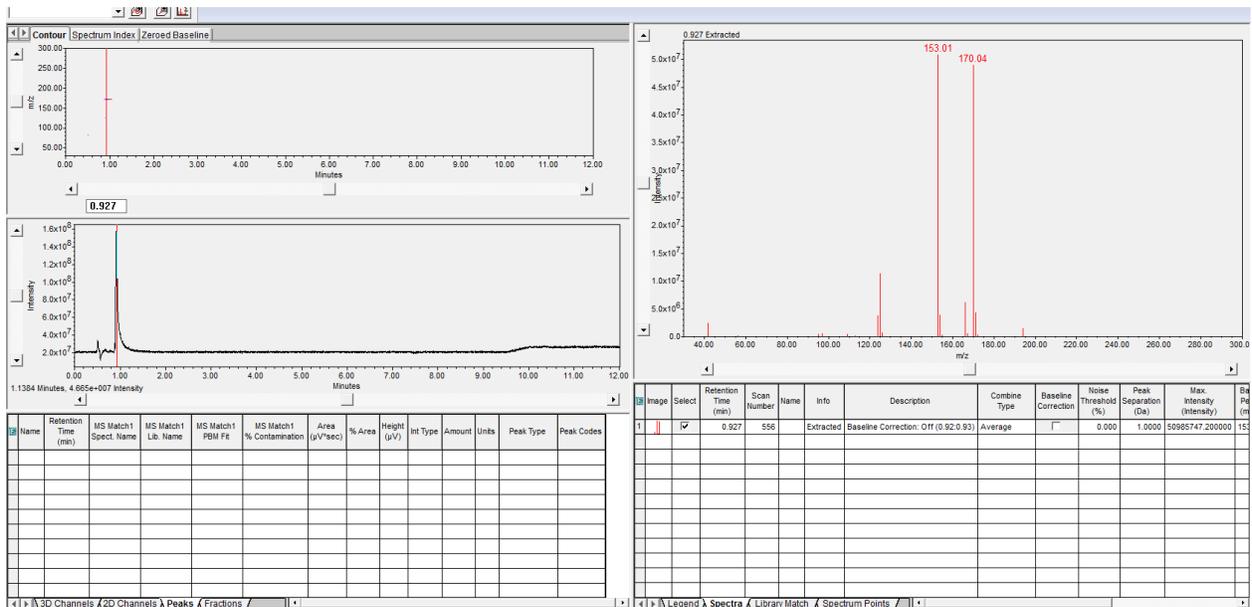


1-3 low gamma LC PDA Detector Data with Integrated Peak

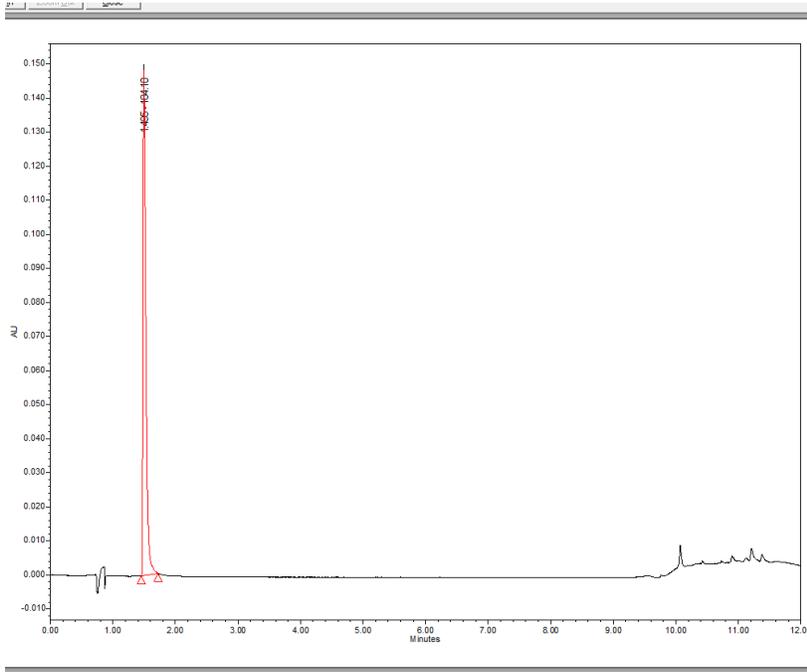


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	0.904	169674	100.00	135599	bb			Unknown

1-3 low gamma Mass Spectrum

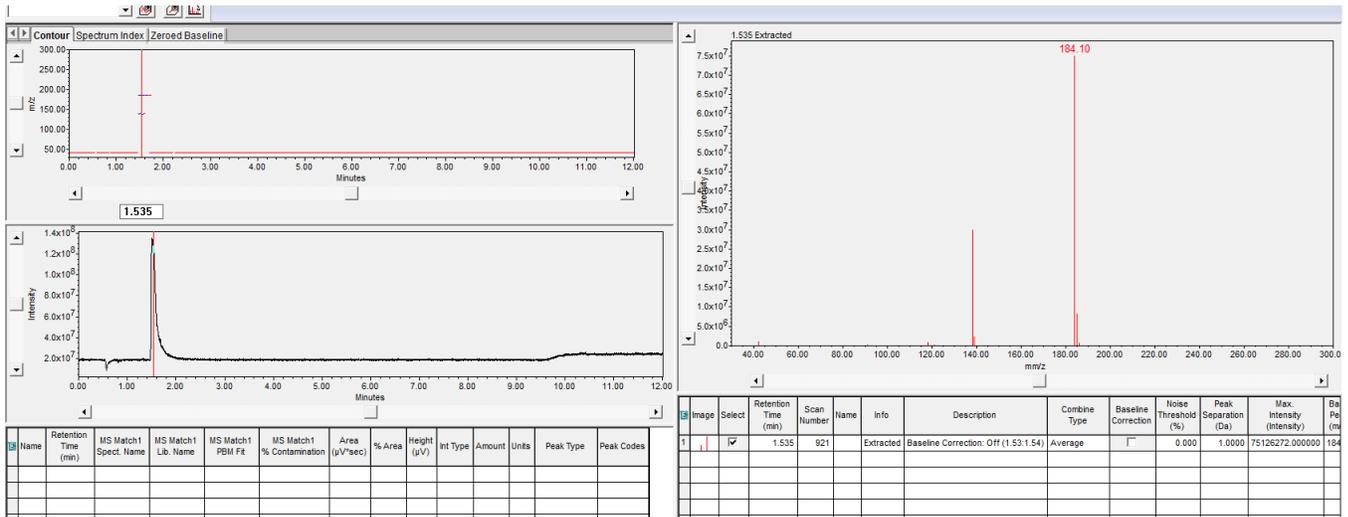


1-6 LC PDA Detector Data with Integrated Peak

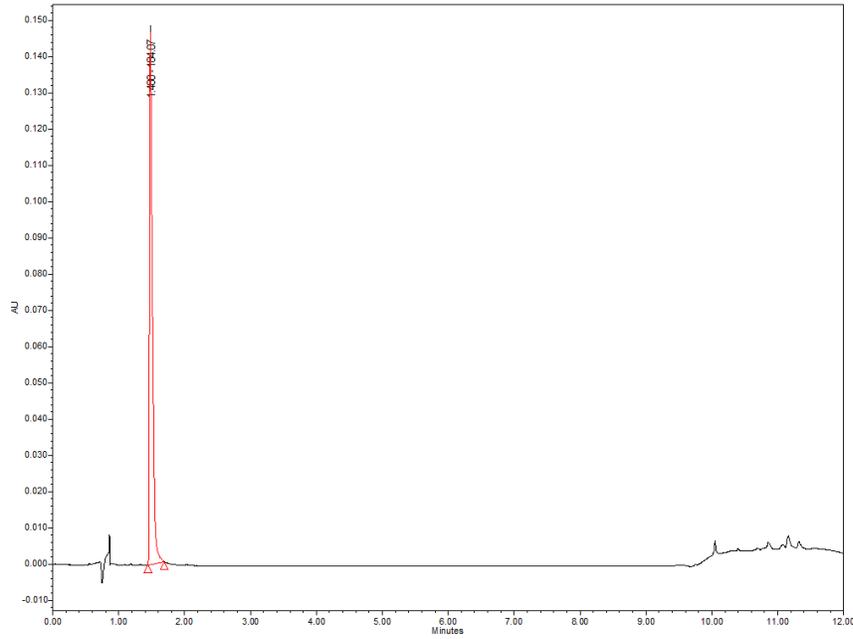


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.495	454464	100.00	148569	bb			Unknown

1-6 Mass Spectrum

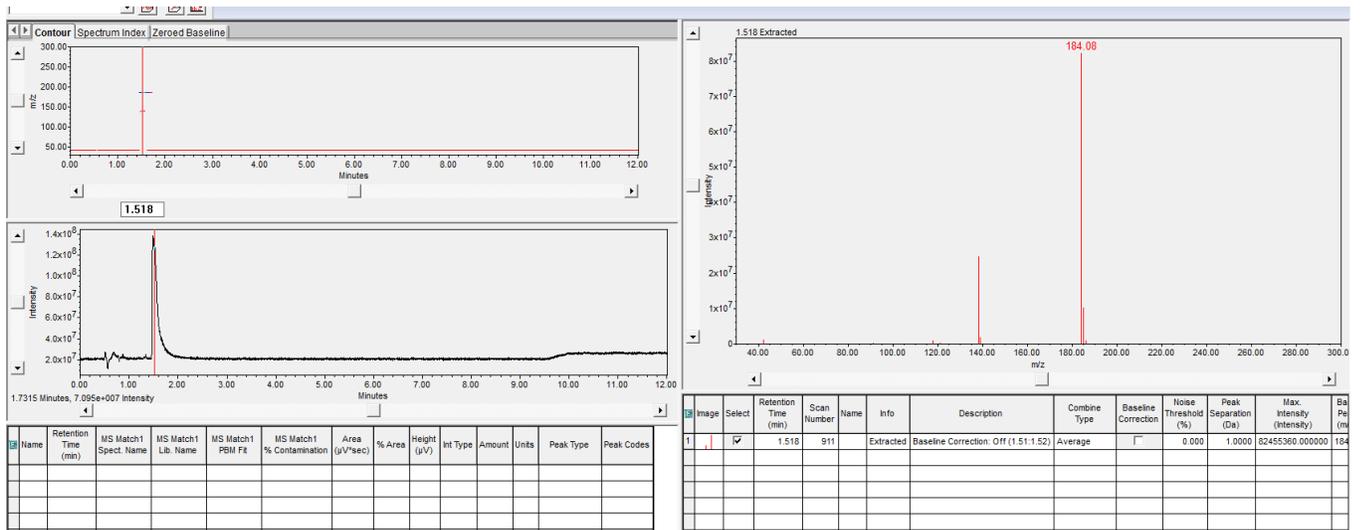


1-6 low gamma LC PDA Detector Data with Integrated Peak

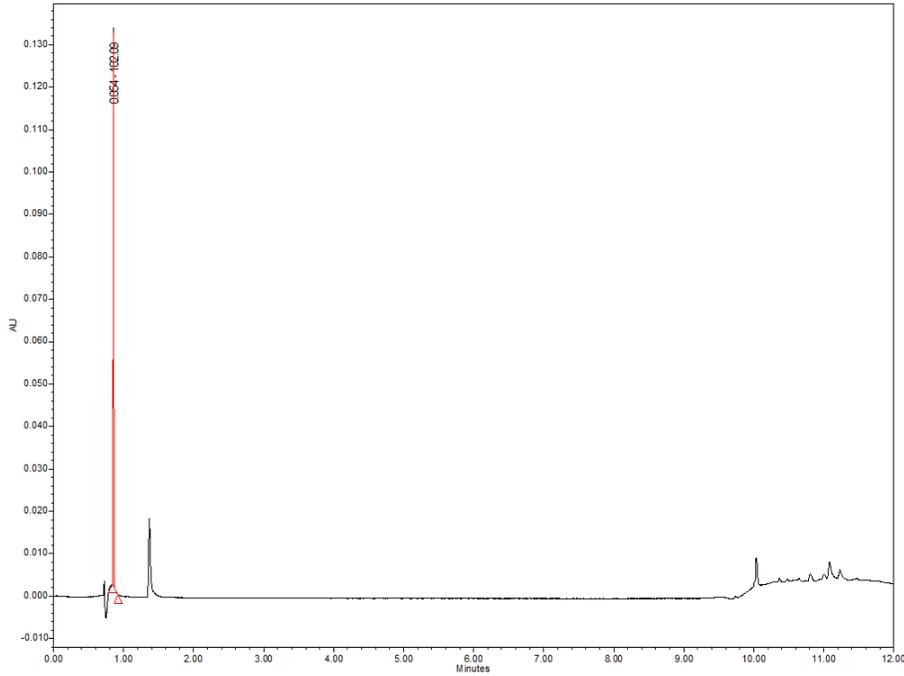


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.480	442237	100.00	146932	bb			Unknown

1-6 low gamma Mass Spectrum

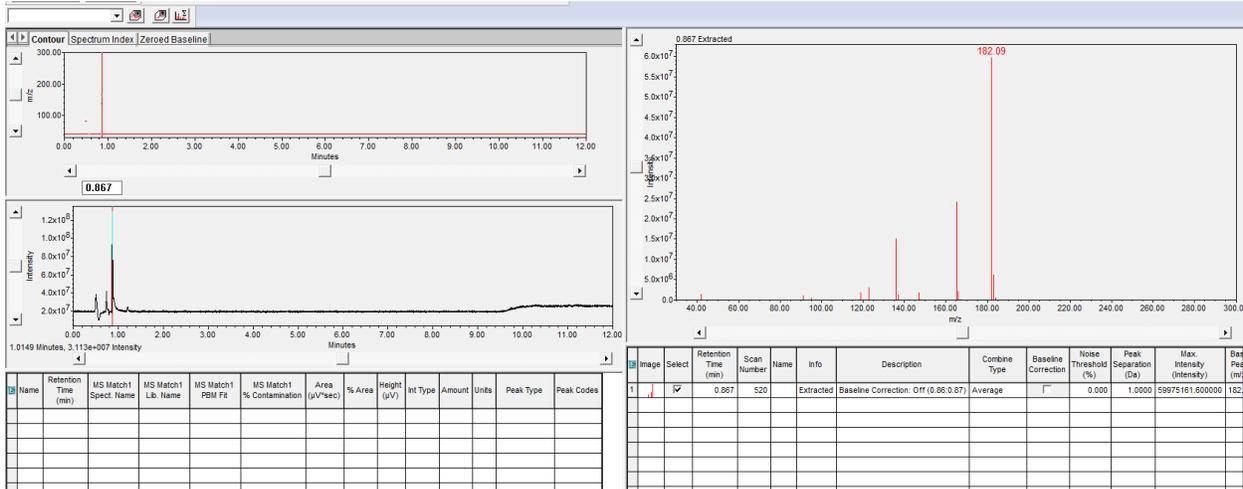


2 LC PDA Detector Data with Integrated Peak

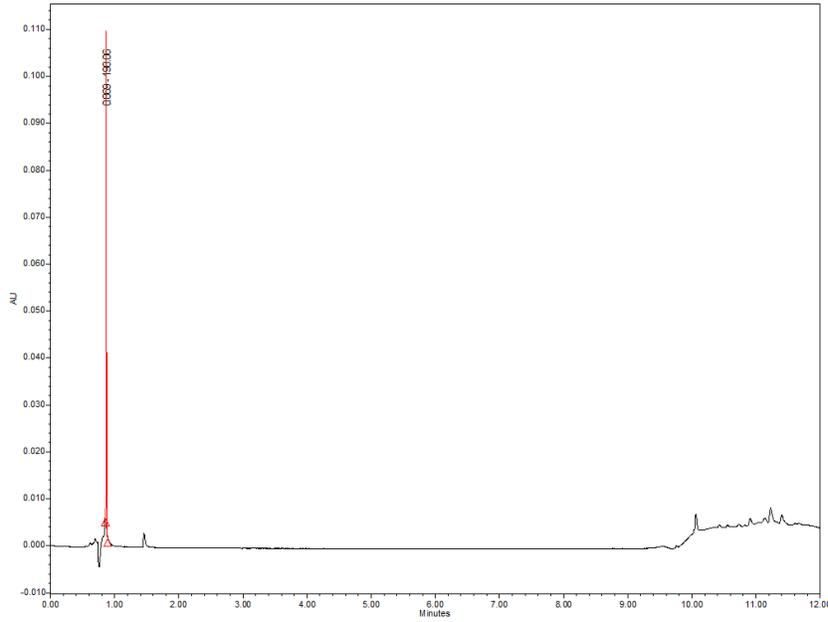


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.854	79210	100.00	130402	bb			Unknown

2 Mass Spectrum



2 low gamma LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.869	64135	100.00	105623	bb			Unknown

2 low gamma Mass Spectrum

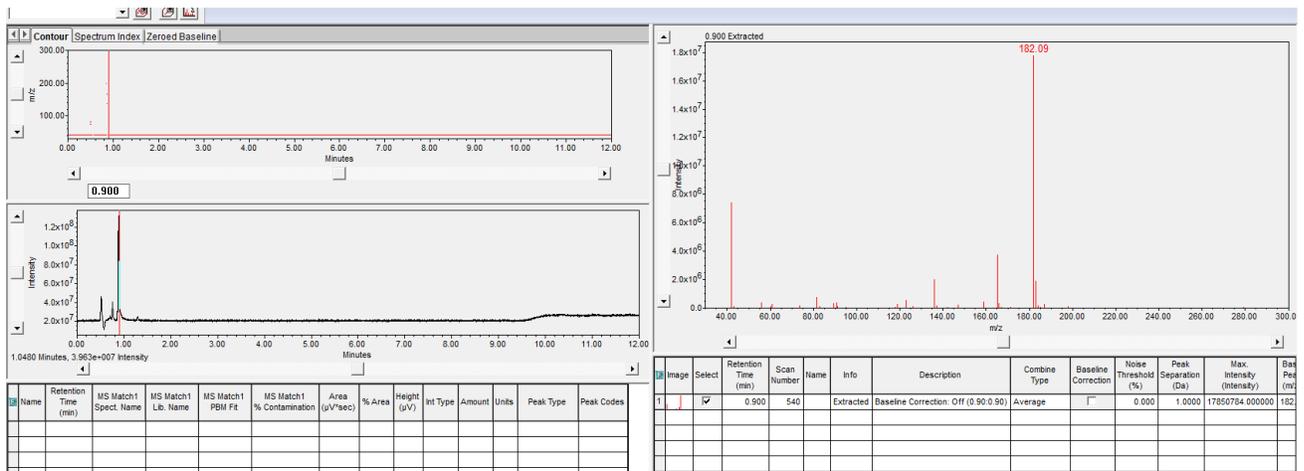
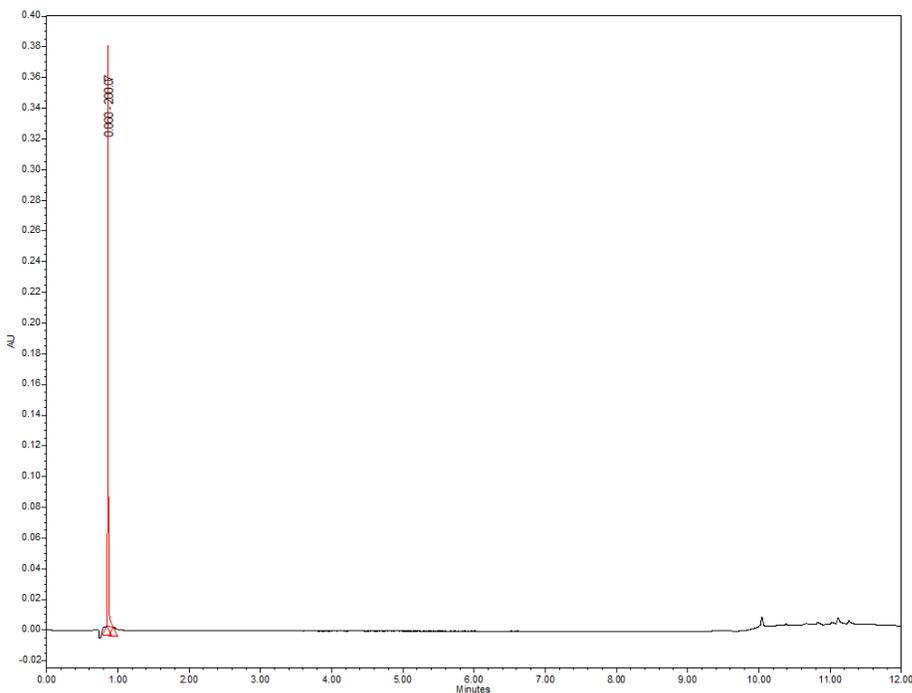


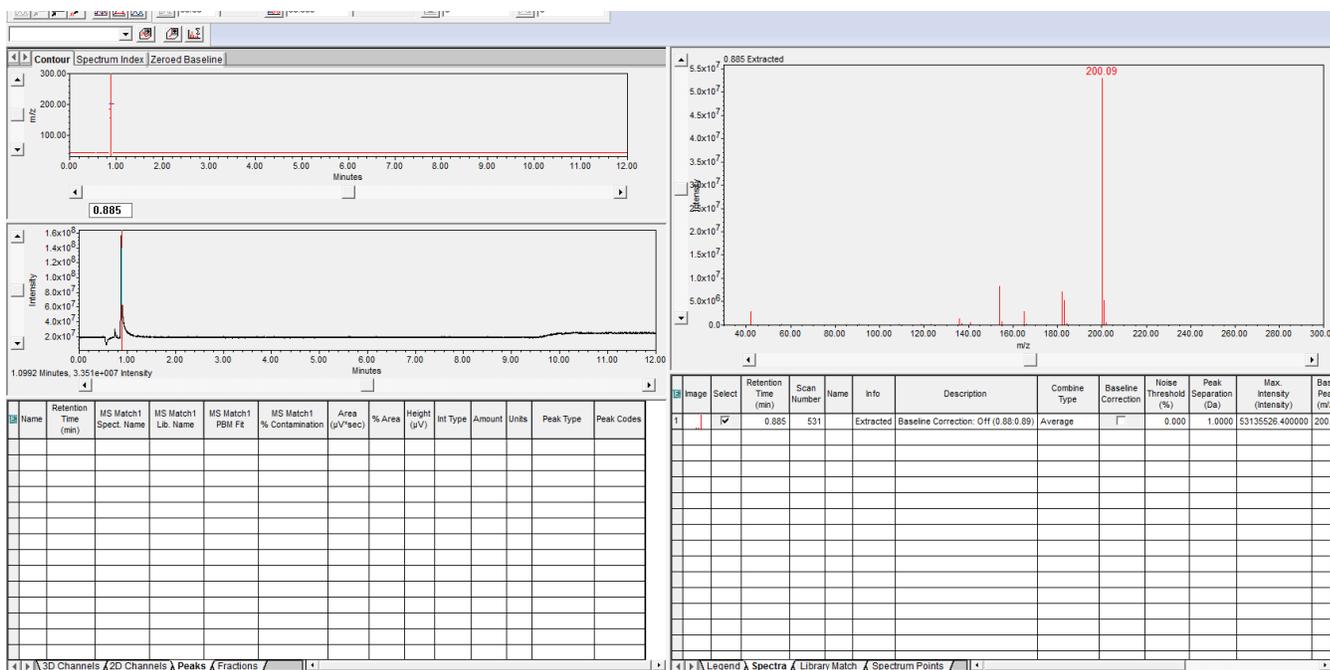
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	Bas. Ped. (mV)
1	<input checked="" type="checkbox"/>	0.900	540		Extracted	Baseline Correction: Off (0.90:0.90)	Average	<input type="checkbox"/>	0.000	1.0000	17850784.000000	162

2-1 LC PDA Detector Data with Integrated Peak

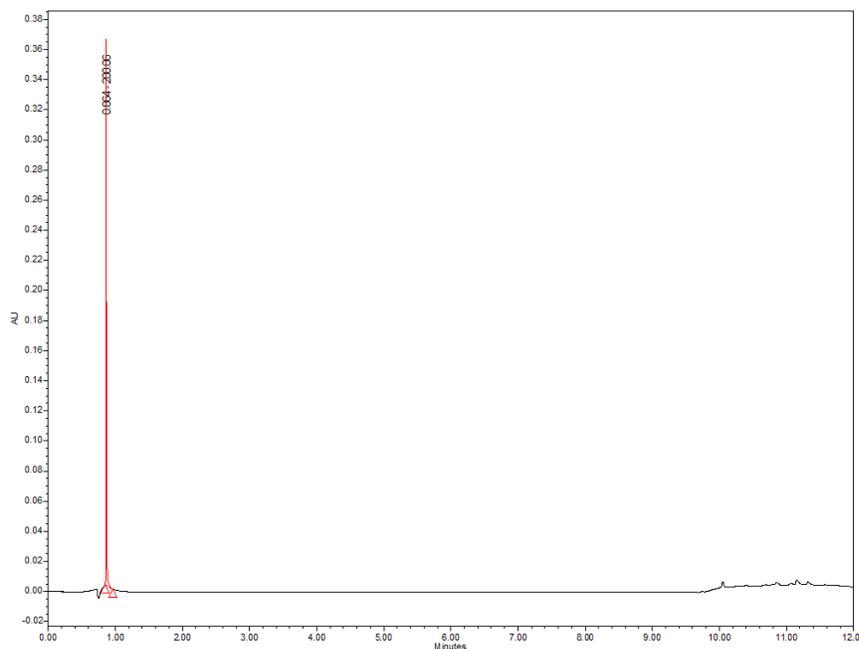


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.860	259974	100.00	379612	bb			Unknown

2-1 Mass Spectrum

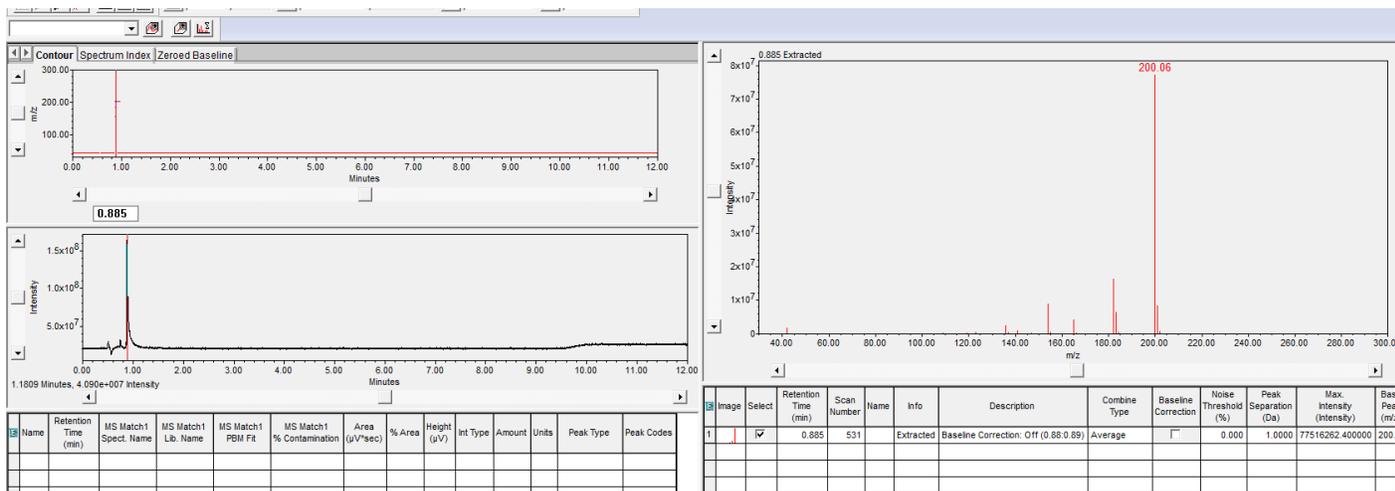


2-1 low gamma LC PDA Detector Data with Integrated Peak

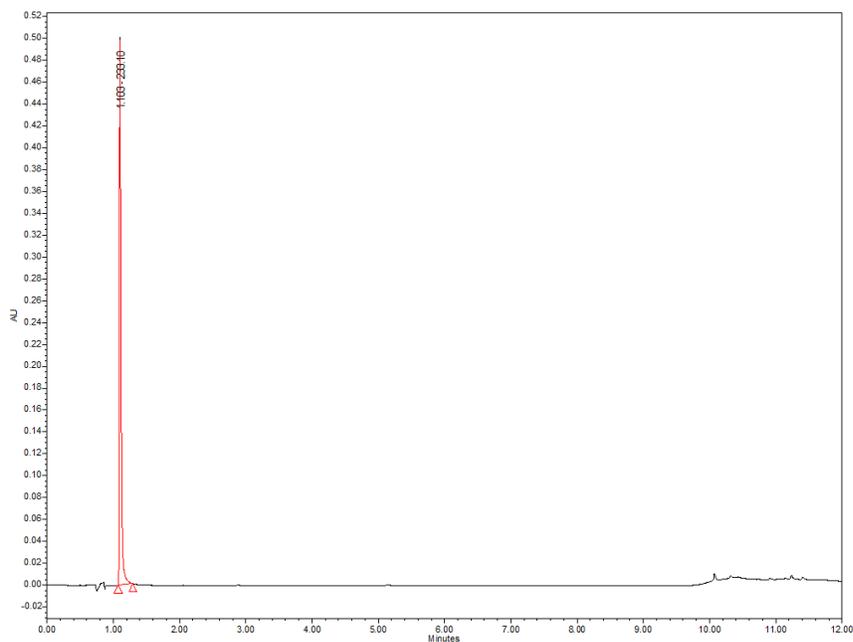


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.864	249960	100.00	363262	bb			Unknown

2-1 low gamma Mass Spectrum

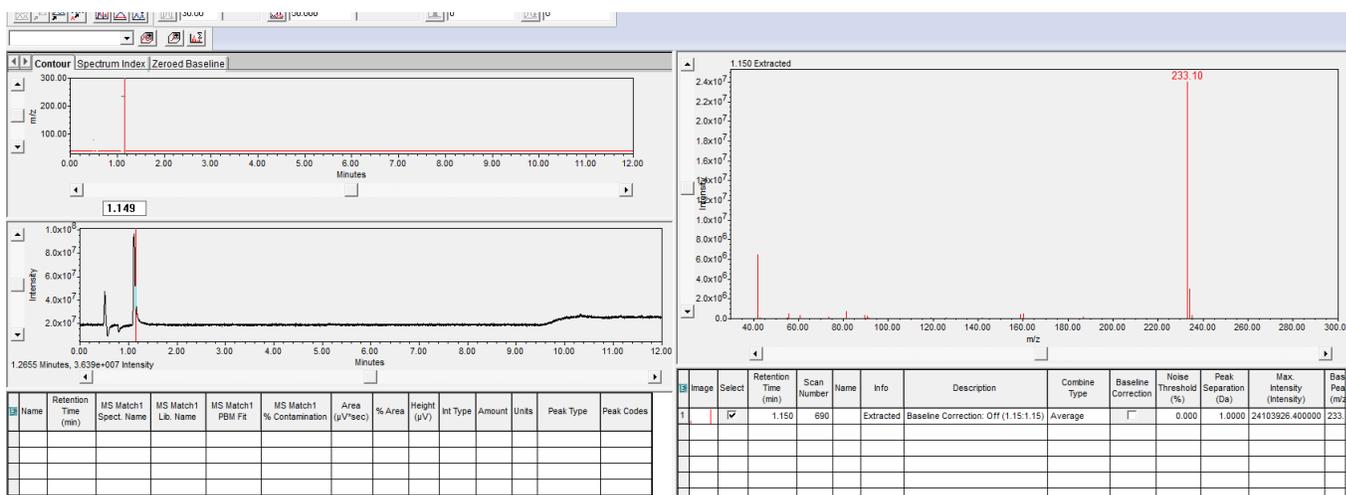


4 LC PDA Detector Data with Integrated Peak

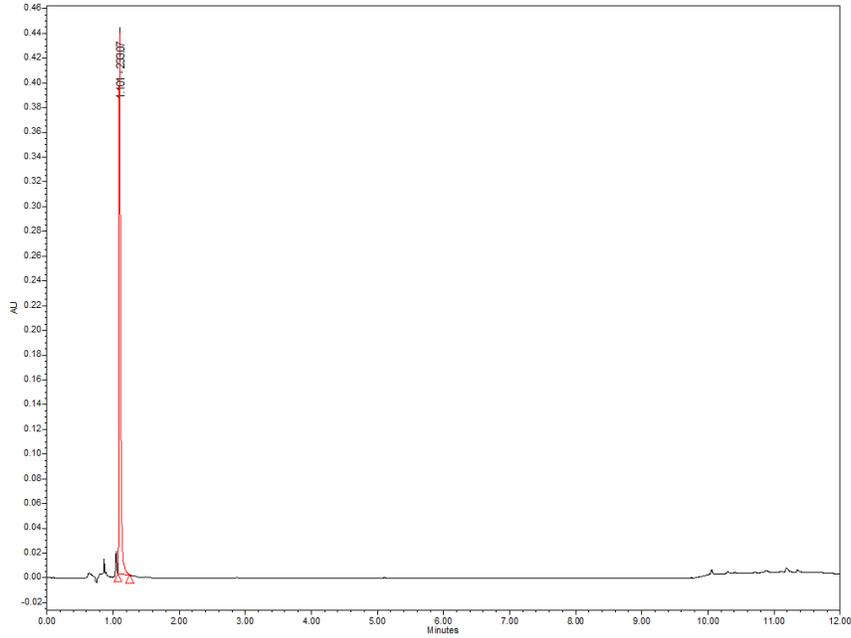


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.103	802920	100.00	498268	bb			Unknown

4 Mass Spectrum

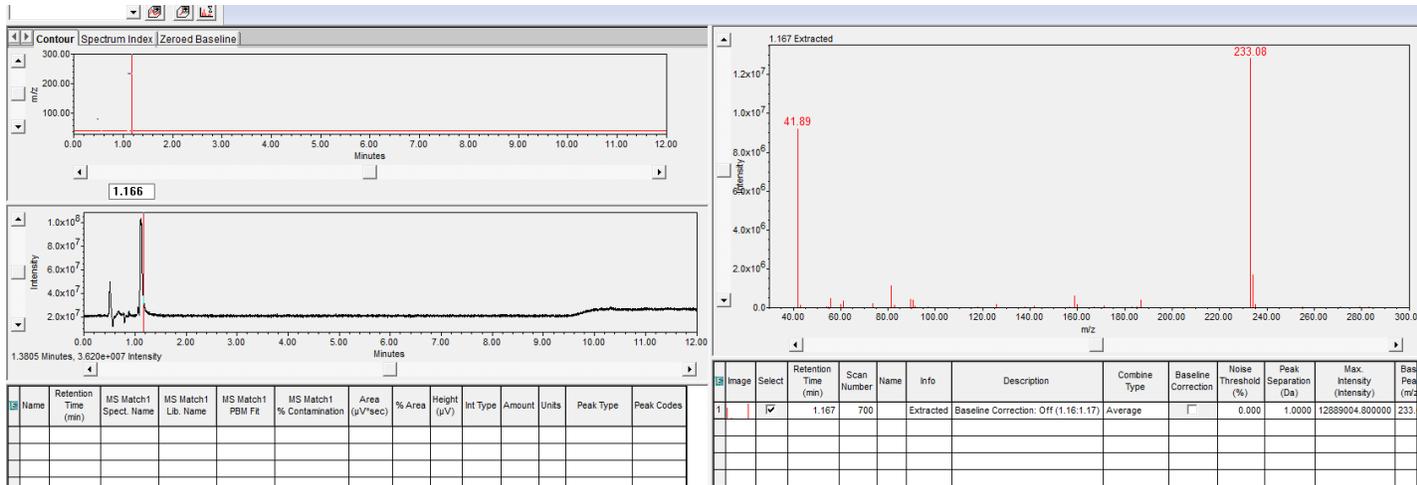


4 low gamma LC PDA Detector Data with Integrated Peak

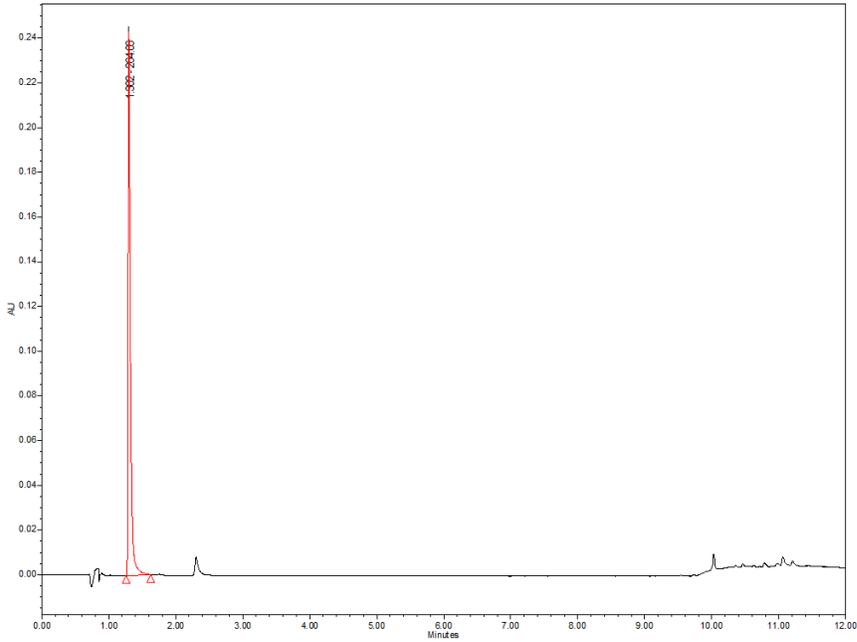


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.101	691384	100.00	437144	bb			Unknown

4 low gamma Mass Spectrum

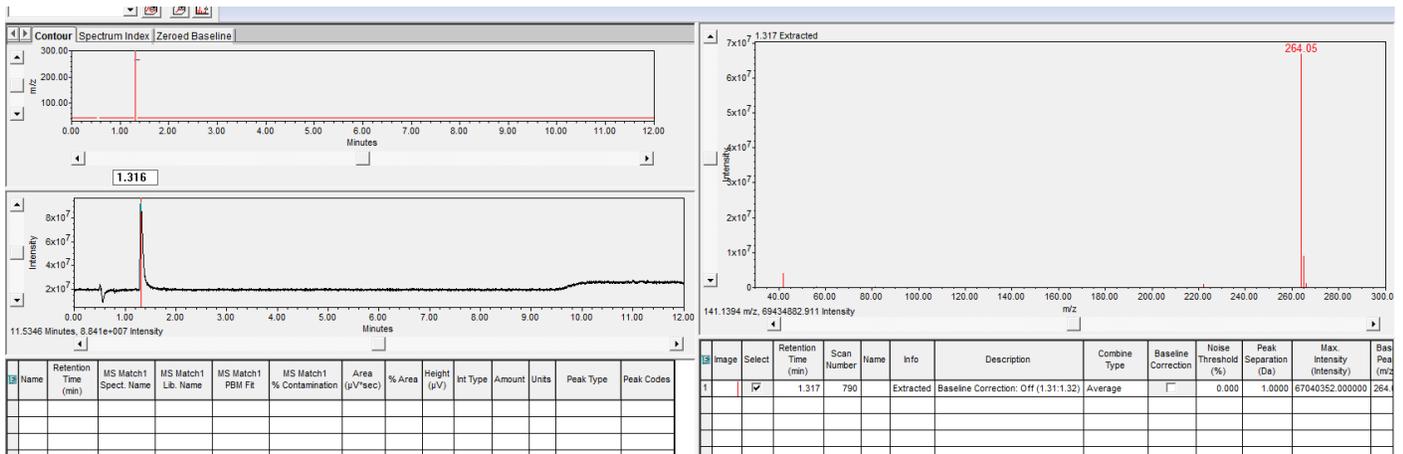


5 LC PDA Detector Data with Integrated Peak

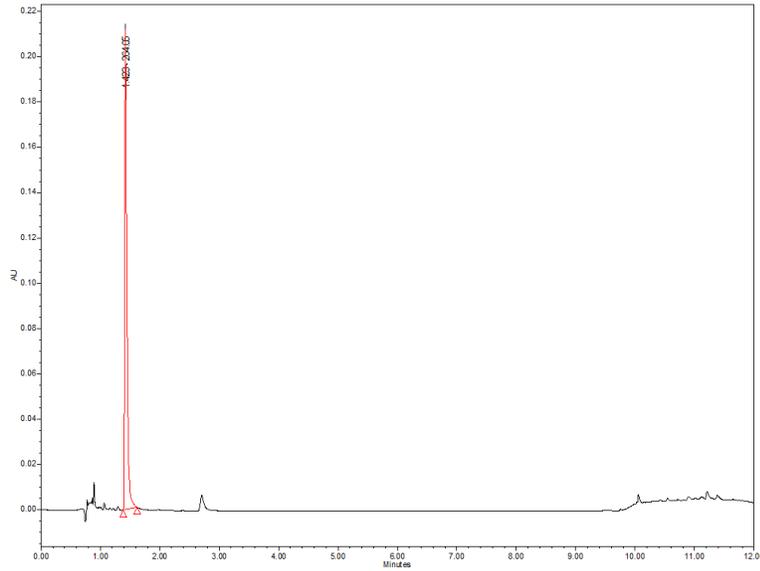


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.302	571180	100.00	243263	bb			Unknown

5 Mass Spectrum

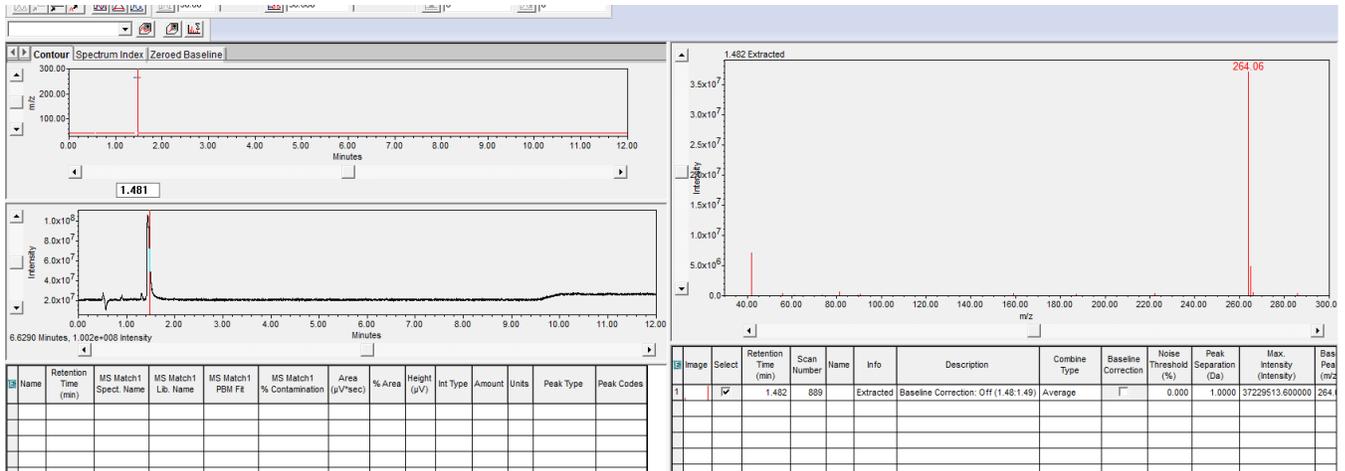


5 low gamma LC PDA Detector Data with Integrated Peak

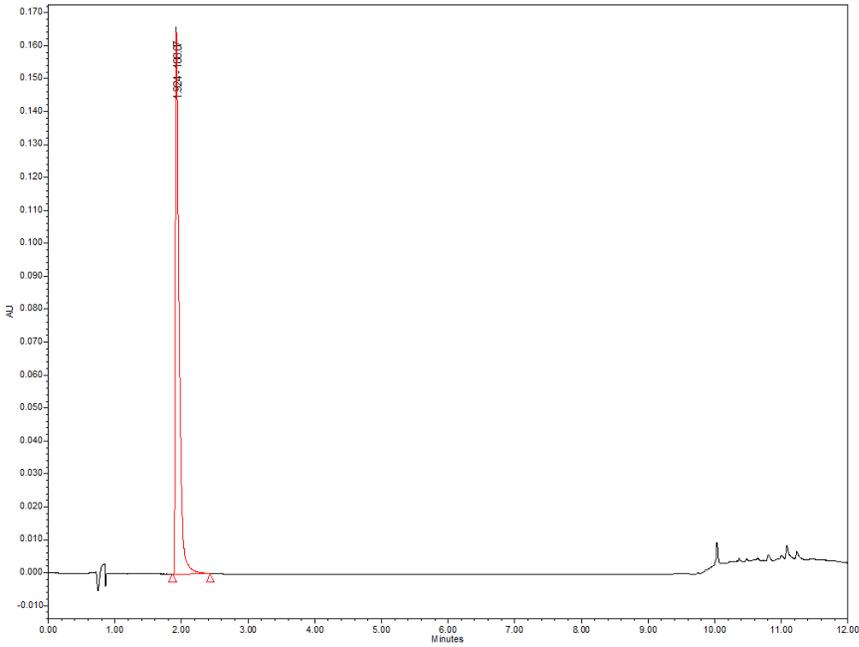


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.423	524622	100.00	212003	bb			Unknown

5 low gamma Mass Spectrum

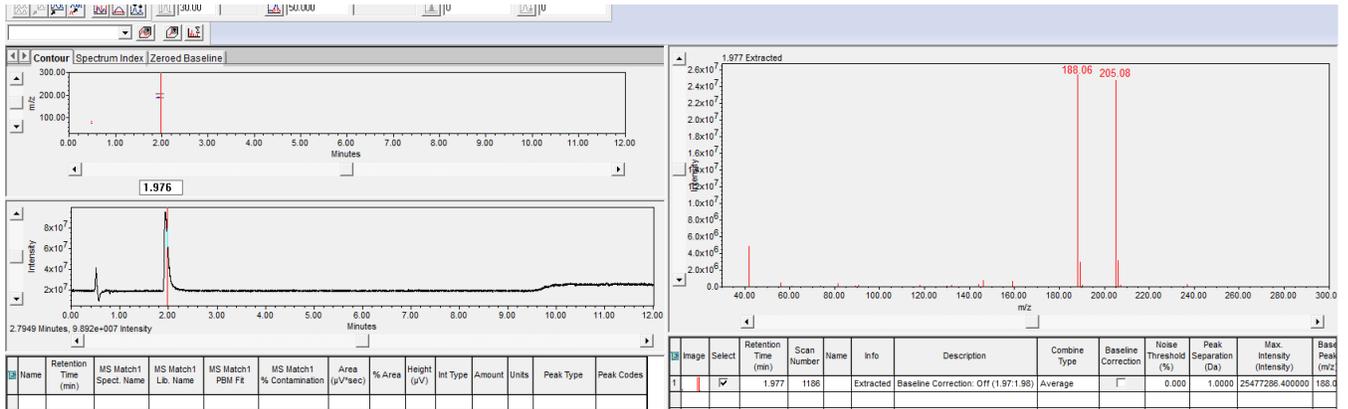


3 LC PDA Detector Data with Integrated Peak

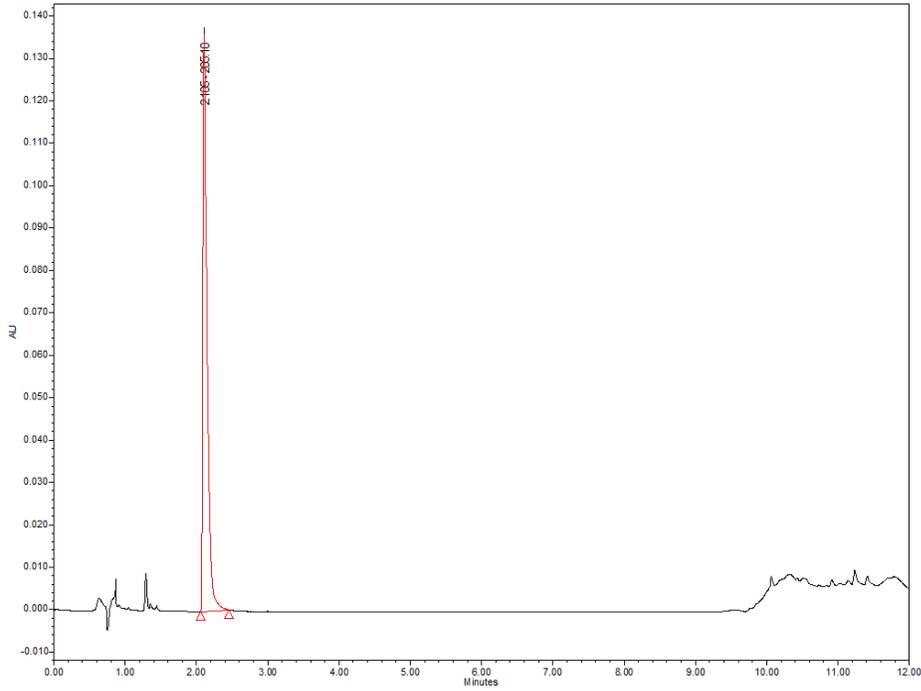


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		1.924	648318	100.00	164333	bb			Unknown

3 Mass Spectrum

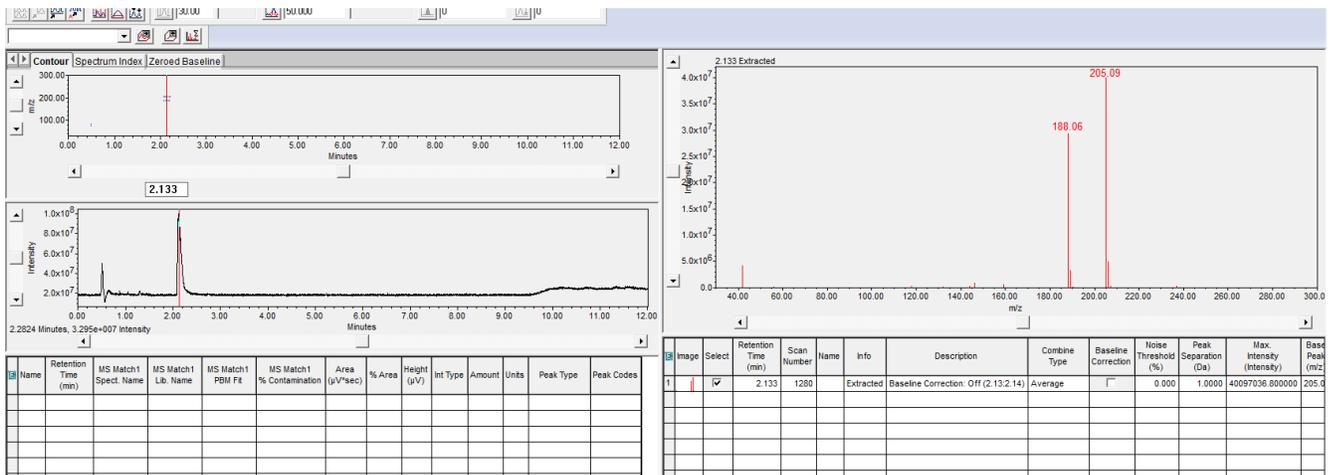


3 low gamma LC PDA Detector Data with Integrated Peak

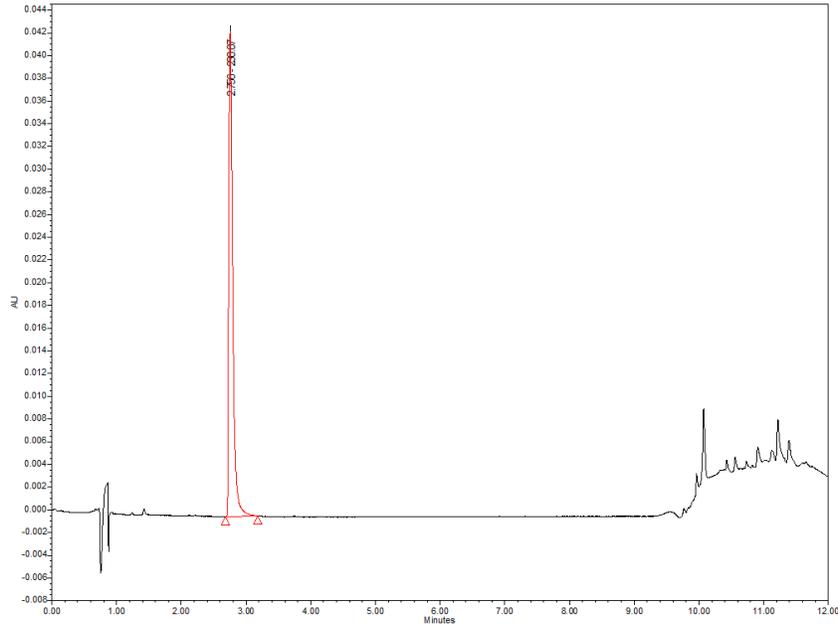


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.105	570125	100.00	136210	bb			Unknown

3 low gamma Mass Spectrum

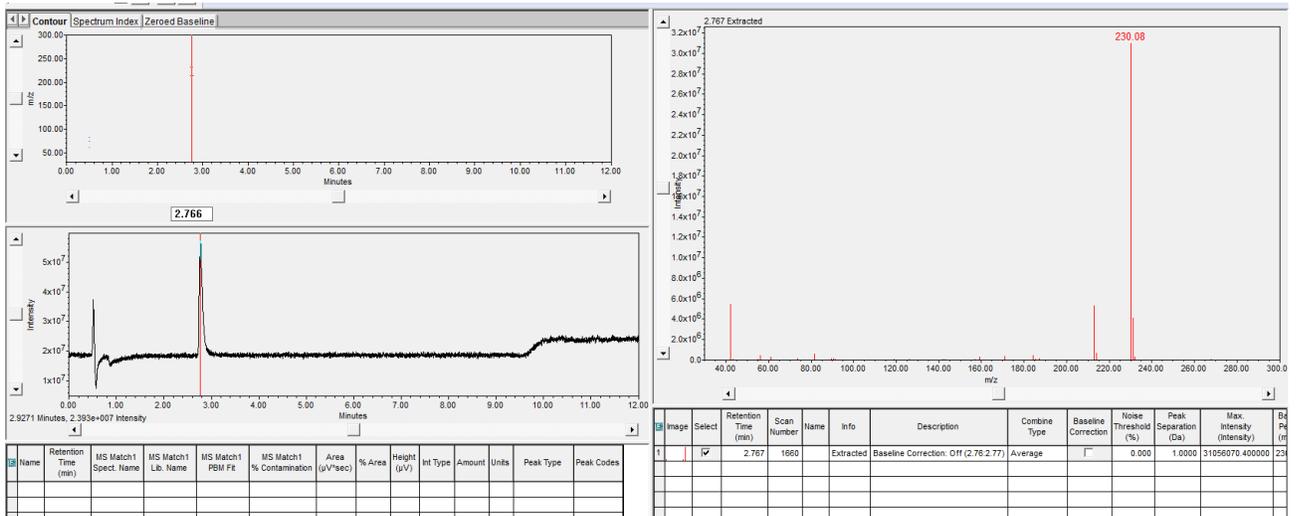


3-1 LC PDA Detector Data with Integrated Peak

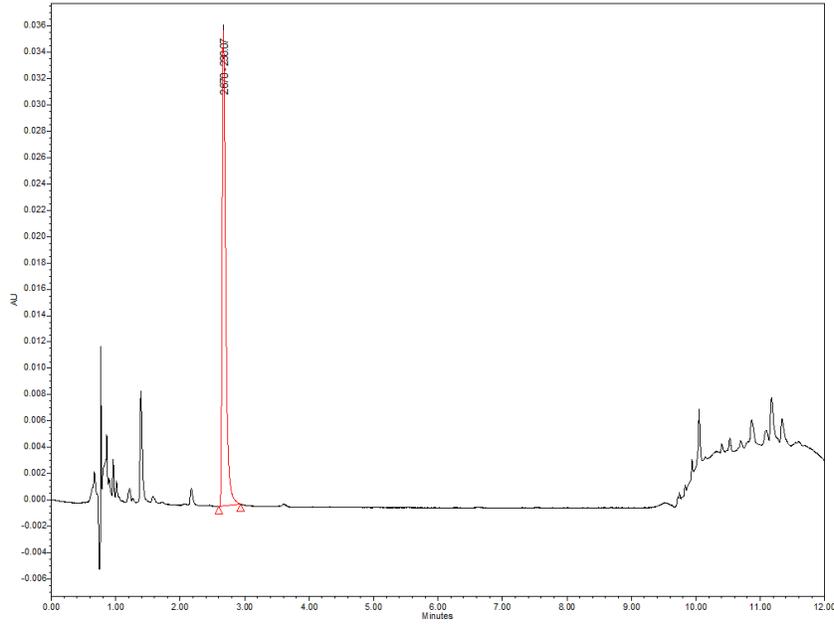


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.756	176427	100.00	42742	bb			Unknown

3-1 Mass Spectrum

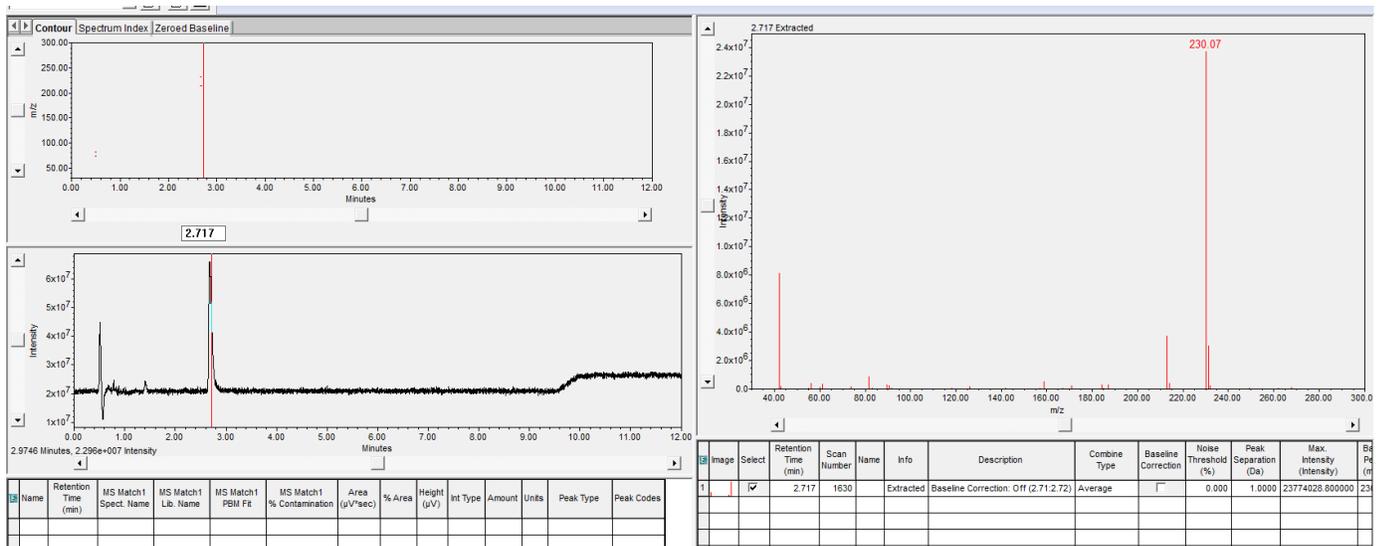


3-1 low gamma LC PDA Detector Data with Integrated Peak

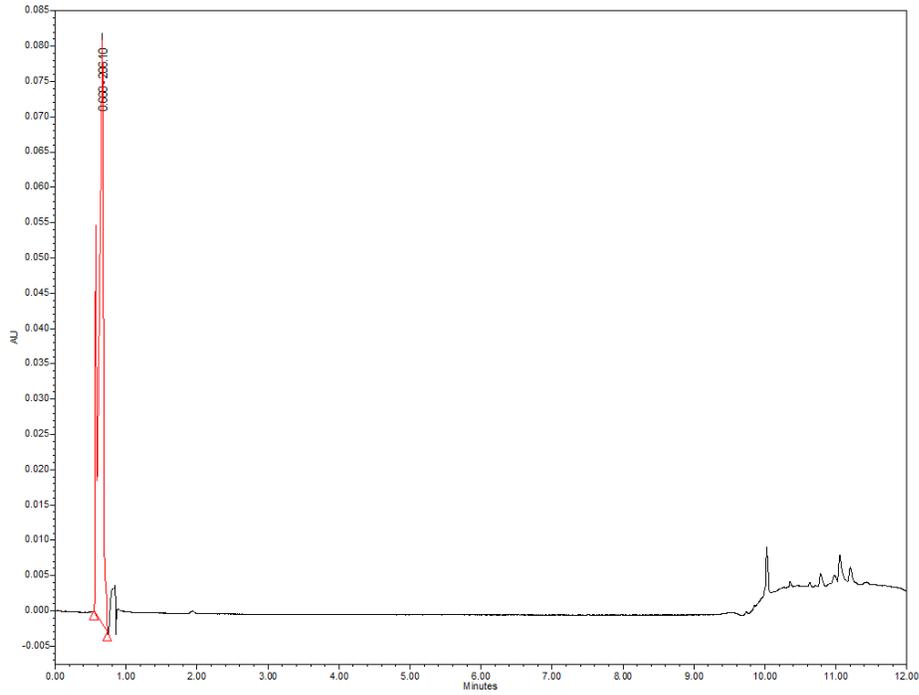


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.670	136579	100.00	36106	bb			Unknown

3-1 low gamma Mass Spectrum

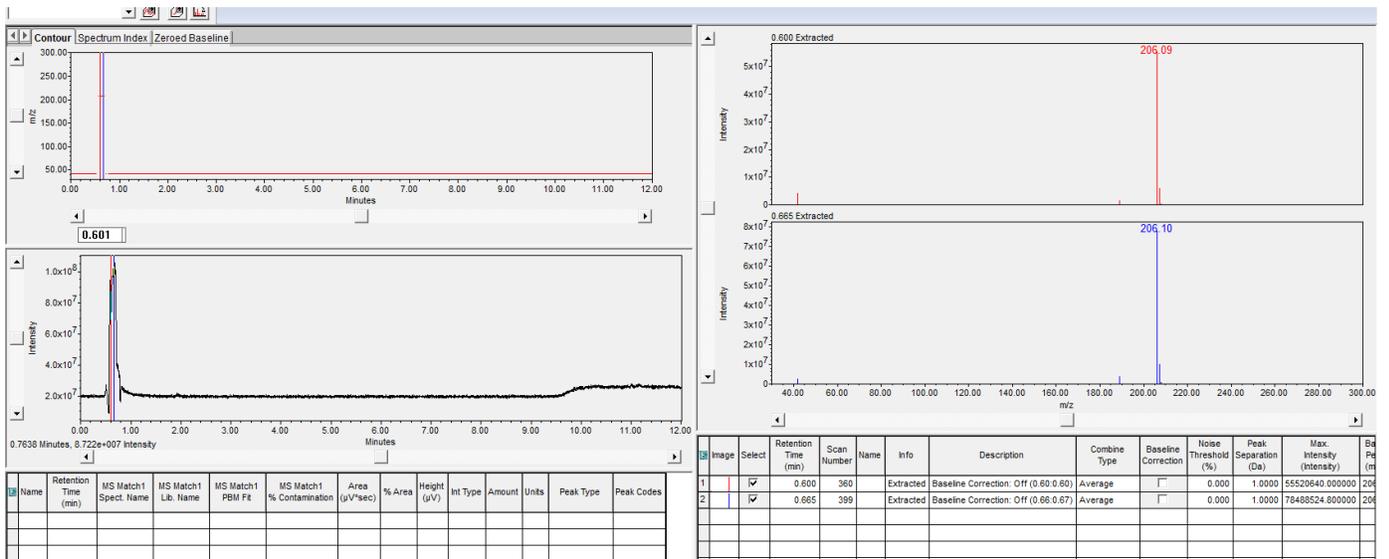


3-2 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.668	395712	100.00	82797	bb			Unknown

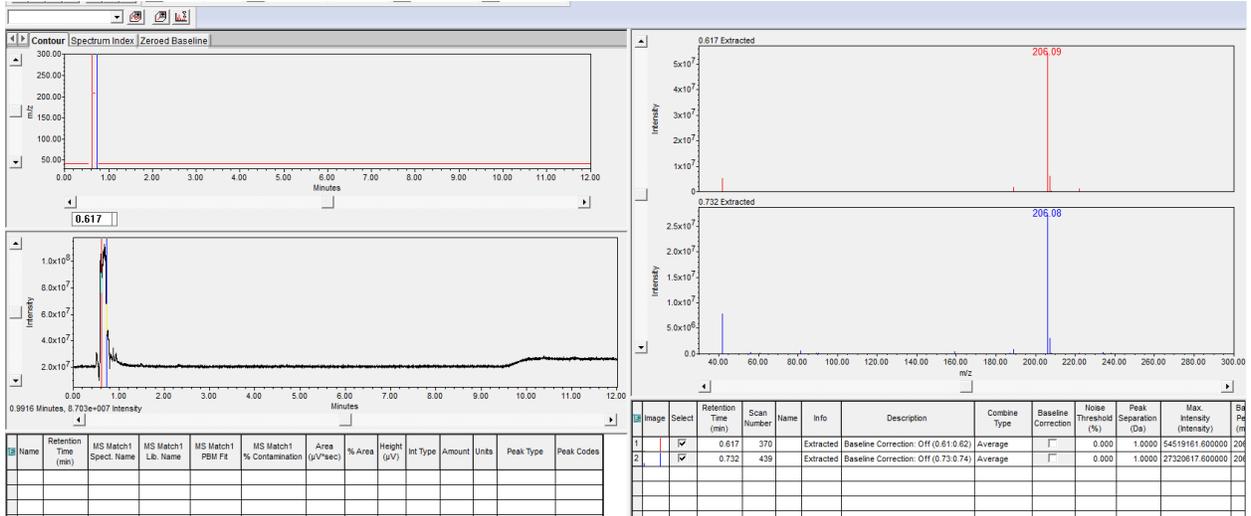
3-2 Mass Spectrum



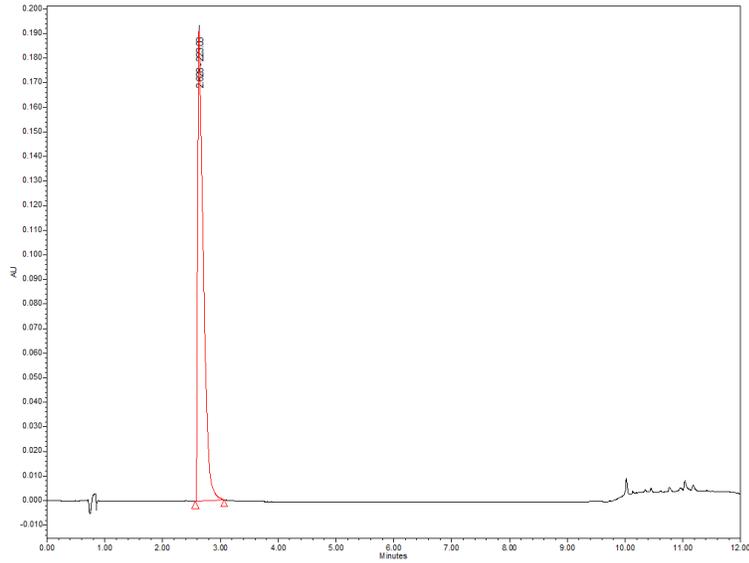
3-2 low gamma LC PDA Detector Data with Integrated Peak

	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.681	389689	100.00	79592	bb			Unknown

3-2 low gamma Mass Spectrum



3-3 LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.628	1325332	100.00	191636	bb			Unknown

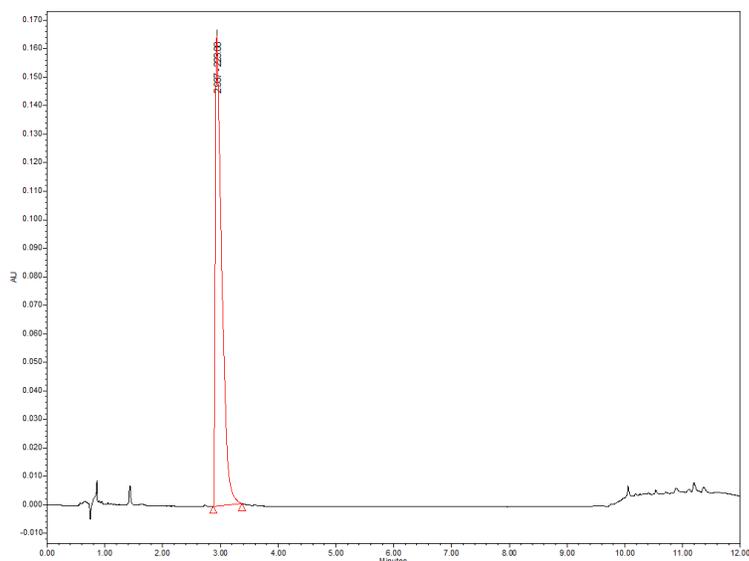
3-3 Mass Spectrum

The screenshot shows a software interface with the following components:

- Contour Plot:** A plot of intensity versus time (minutes) showing a peak at 2.657 minutes. The y-axis is labeled 'm/z' and ranges from 0 to 300.00. The x-axis is labeled 'Minutes' and ranges from 0.00 to 12.00.
- 2.657 Extracted Mass Spectrum:** A plot of intensity versus m/z showing two major peaks at 206.06 and 223.08. The y-axis ranges from 0.0 to 5.5x10⁷. The x-axis is labeled 'm/z' and ranges from 40.00 to 300.00.
- Data Table:** A table with columns: Image, Select, Retention Time (min), Scan Number, Name, Info, Description, Combine Type, Baseline Correction, Noise Threshold (%), Peak Separation (Da), Max. Intensity (Intensity), and P4 (m). The first row contains data for the extracted peak at 2.657 minutes.

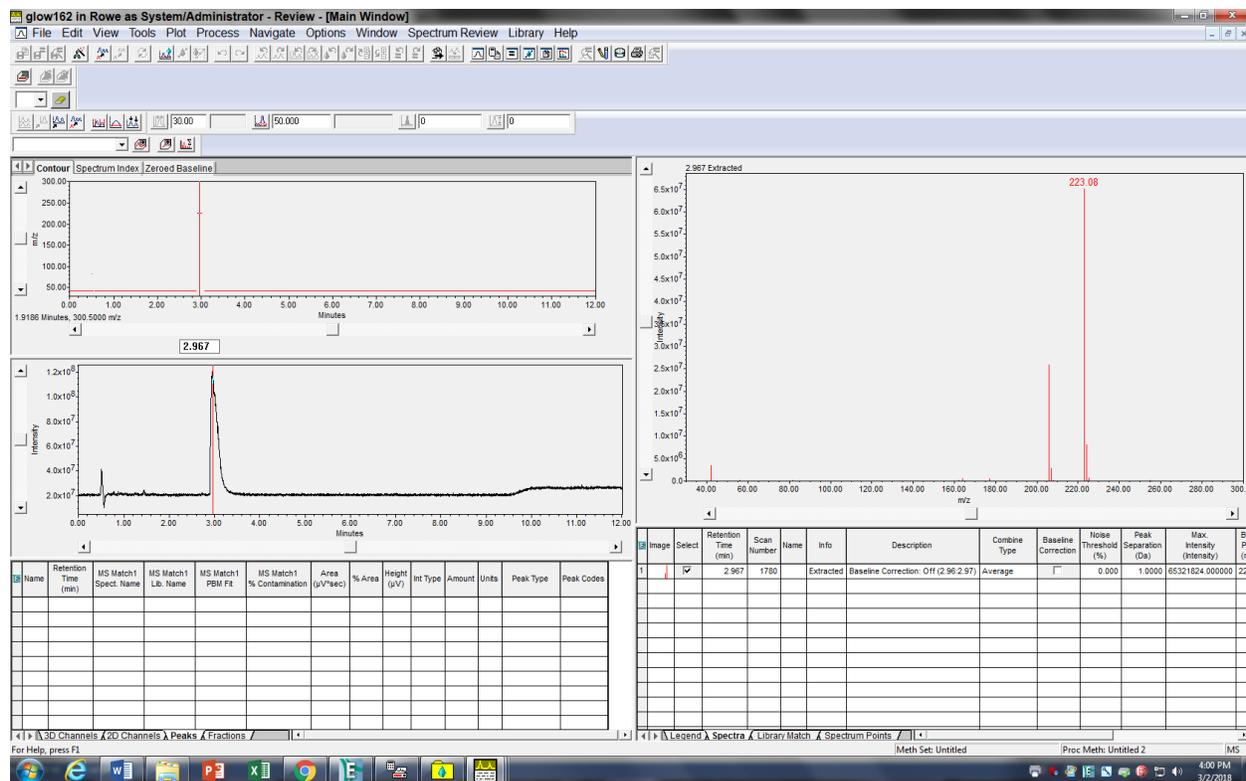
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	P4 (m)
1	<input checked="" type="checkbox"/>	2.657	1594	Extracted	Baseline Correction: Off (2.65-2.66)	Average		0.000	1.0000	54793984.000000	222	

3-3 low gamma LC PDA Detector Data with Integrated Peak

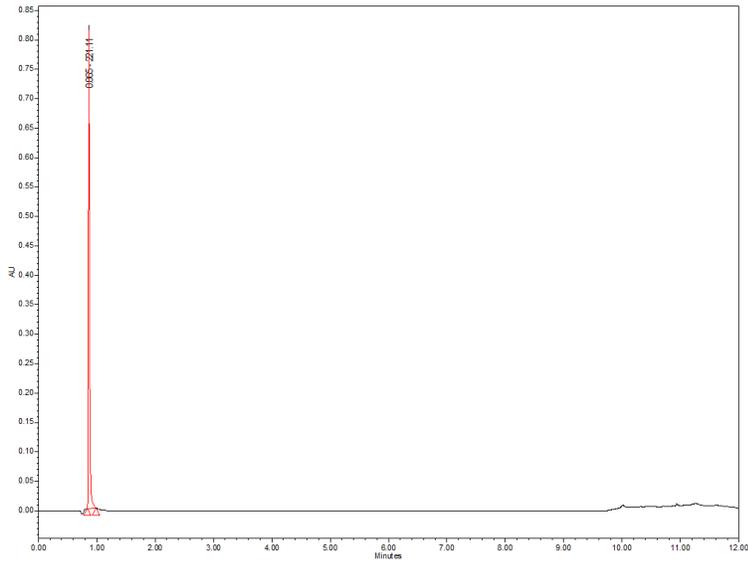


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.937	1273530	100.00	164956	bb			Unknown

3-3 low gamma Mass Spectrum

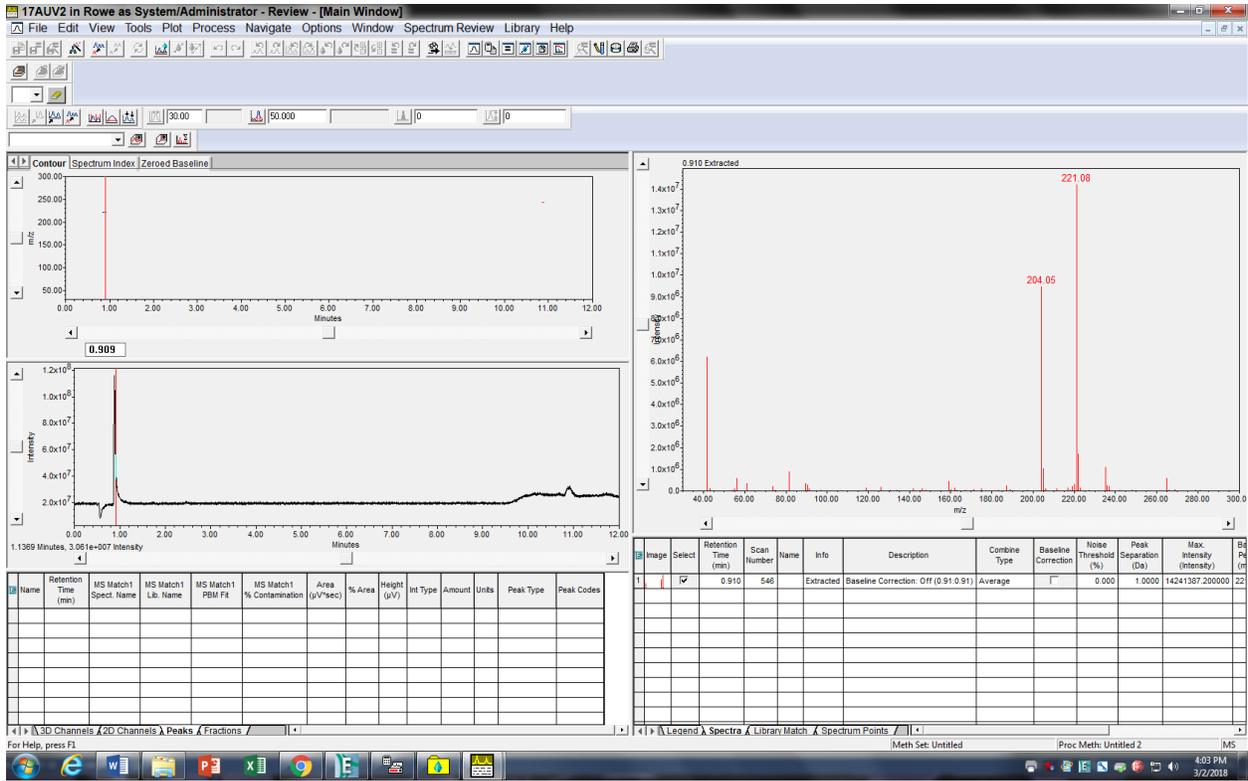


3-4 LC PDA Detector Data with Integrated Peak

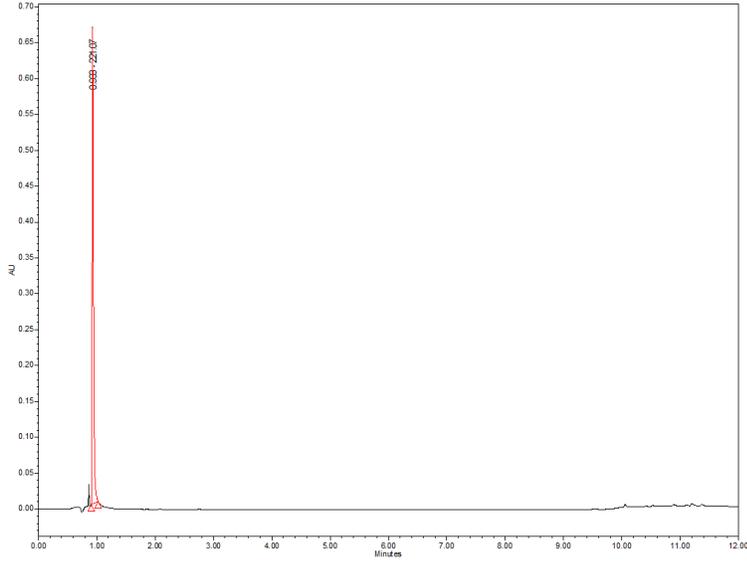


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.865	1082123	100.00	812293	bb			Unknown

3-4 Mass Spectrum



3-4 low gamma LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		0.933	1002079	100.00	662981	bb			Unknown

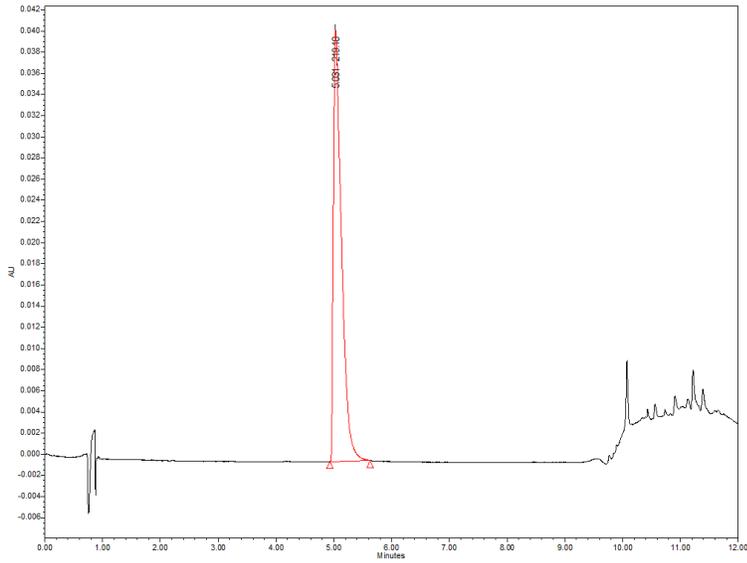
3-4 low gamma Mass Spectrum

The screenshot displays a software window titled 'glow172 in Rowe as System/Administrator - Review - [Main Window]'. It features several panels:

- Contour Plot:** Shows a single peak at 0.974 minutes with a mass-to-charge ratio (m/z) of 205.3037.
- Intensity Plot:** Shows the intensity of the peak at 0.974 minutes, with a maximum intensity of approximately 1.2×10^8 .
- 0.973 Extracted Mass Spectrum:** Shows a mass spectrum with a base peak at m/z 221.07. The y-axis is labeled 'Intensity' and ranges from 0.0 to 3.0×10^7 .
- Table:** A table with columns: Image, Select, Retention Time (min), Scan Number, Name, Info, Description, Combine Type, Baseline Correction, Noise Threshold (%), Peak Separation (Da), Max. Intensity (Intensity), and S4 P4 (m). The first row contains data for the peak at 0.973 minutes.

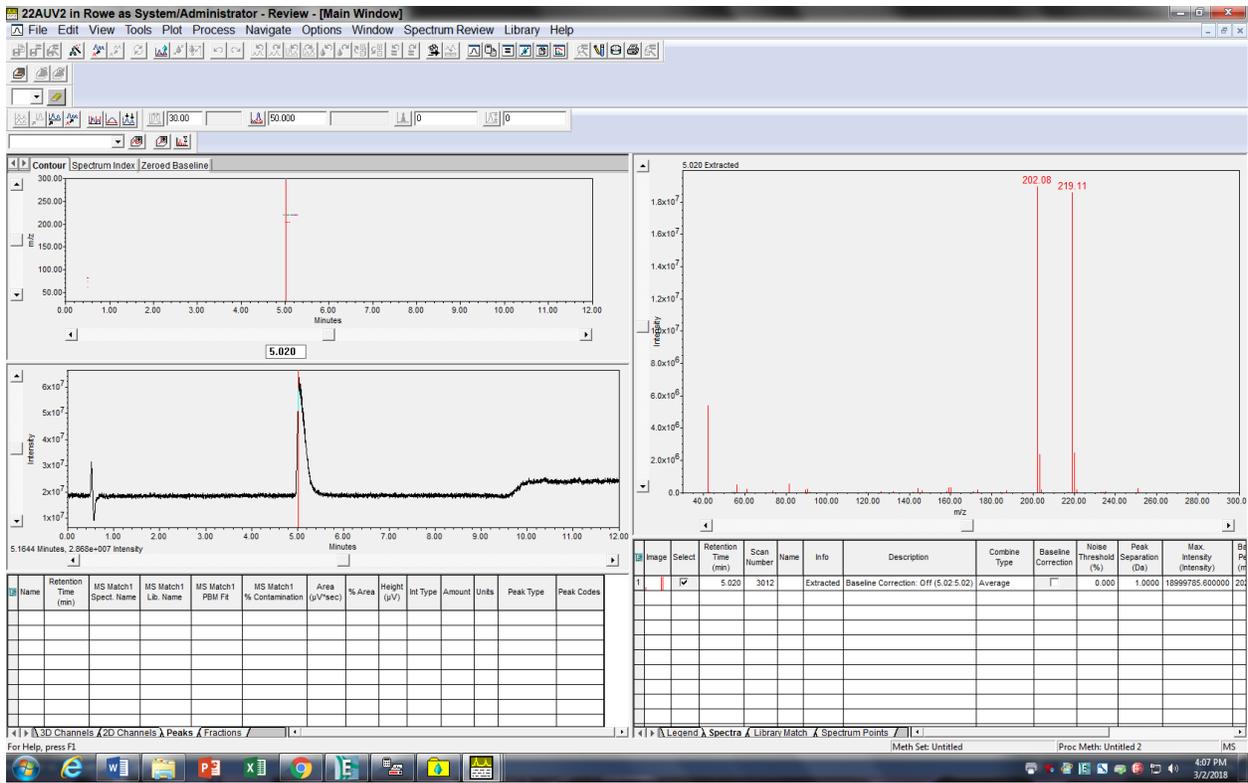
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max. Intensity (Intensity)	S4 P4 (m)
1	<input checked="" type="checkbox"/>	0.973	584	Extracted		Baseline Correction: Off (0.970.98)	Average		0.000	1.0000	28915510.400000	22

3-5 LC PDA Detector Data with Integrated Peak

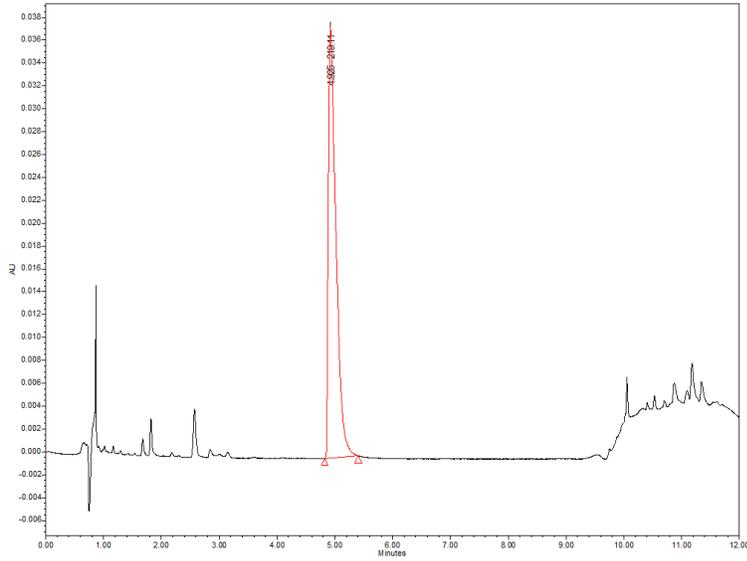


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		5.031	396392	100.00	40761	bb			Unknown

3-5 Mass Spectrum

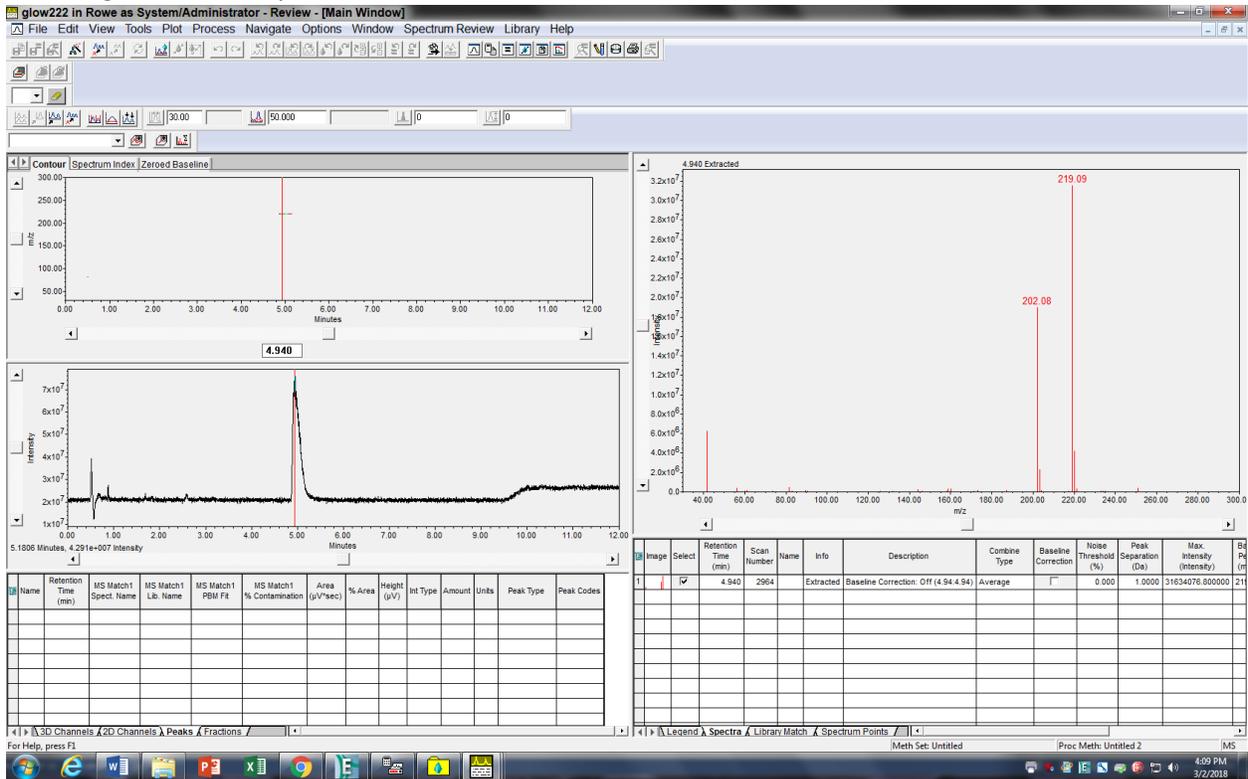


3-5 low gamma LC PDA Detector Data with Integrated Peak

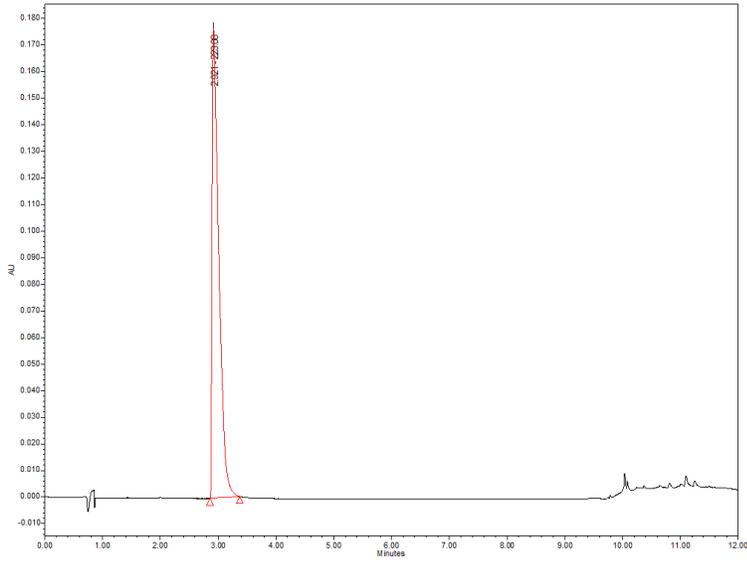


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		4.925	343380	100.00	37621	bb			Unknown

3-5 low gamma Mass Spectrum



3-6 LC PDA Detector Data with Integrated Peak

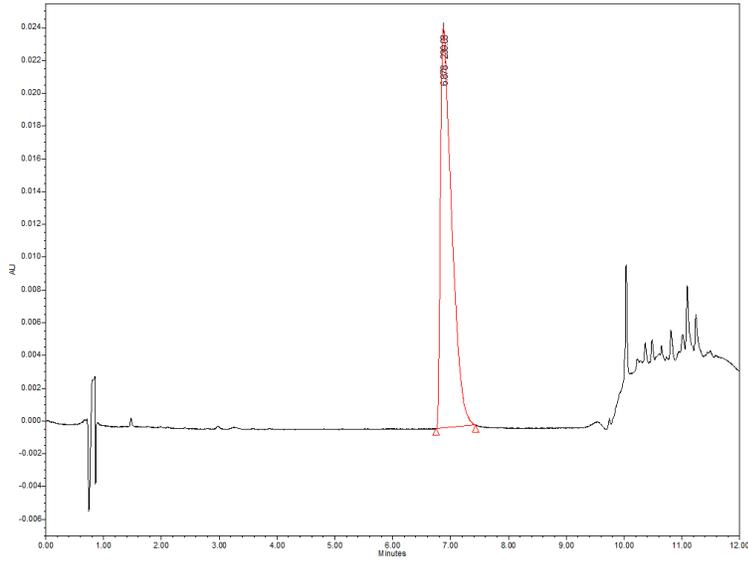


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		2.921	1435309	100.00	176766	bb			Unknown

3-6 Mass Spectrum

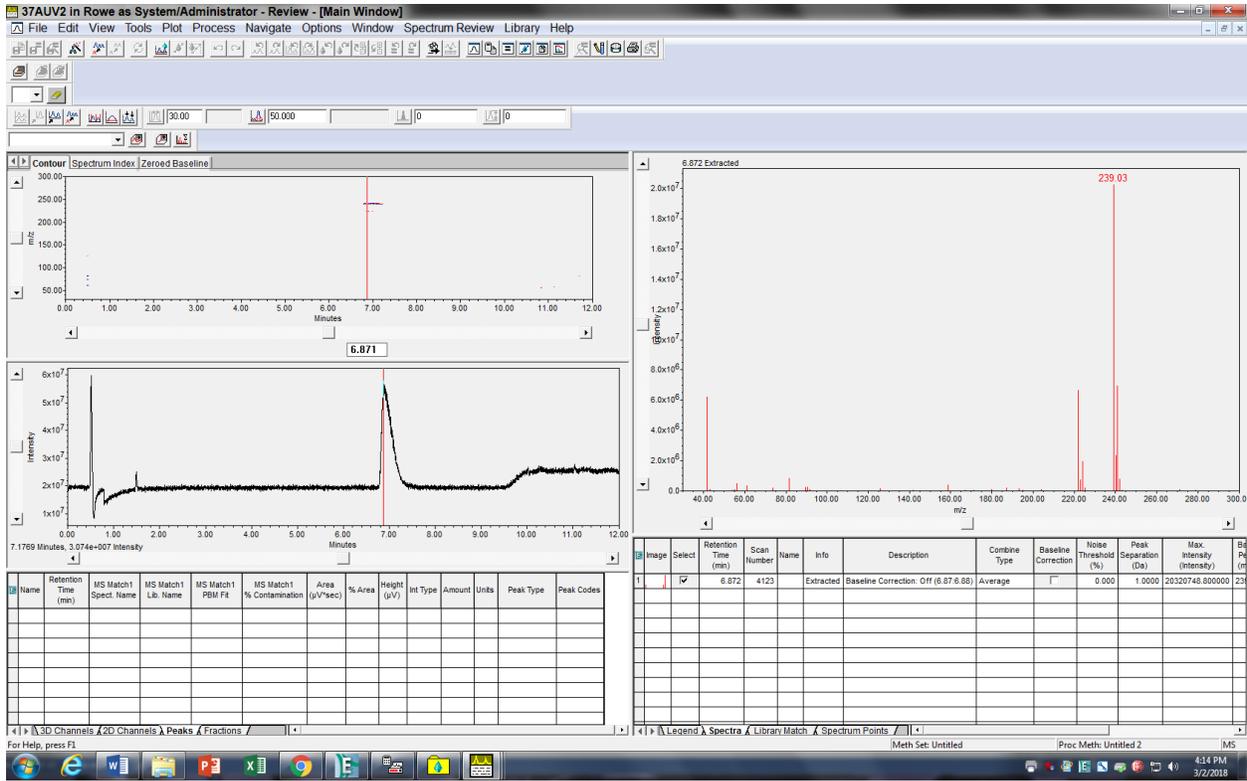
Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity (Intensity)	B4 P4 (m)
1	<input checked="" type="checkbox"/>	2.943	1766	Extracted		Baseline Correction: Off (2.942-95)	Average		0.000	1.0000	50295564.800000	22

3-7 LC PDA Detector Data with Integrated Peak

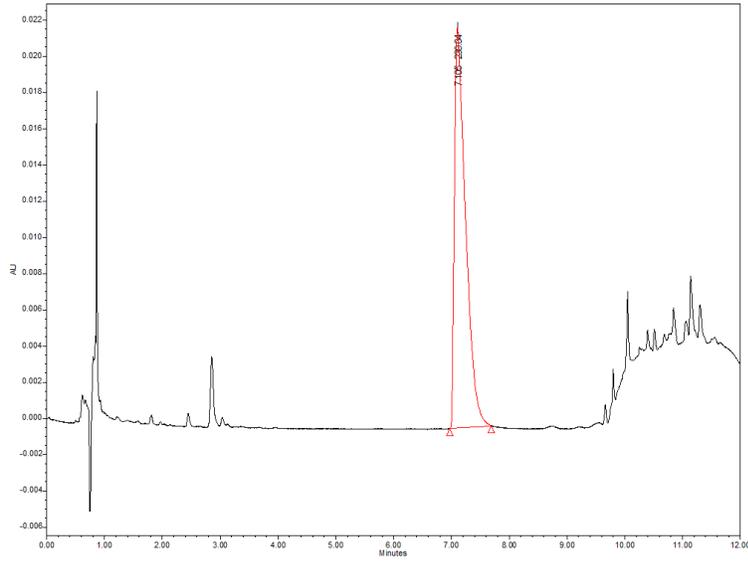


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		6.878	327011	100.00	24411	bb			Unknown

3-7 Mass Spectrum

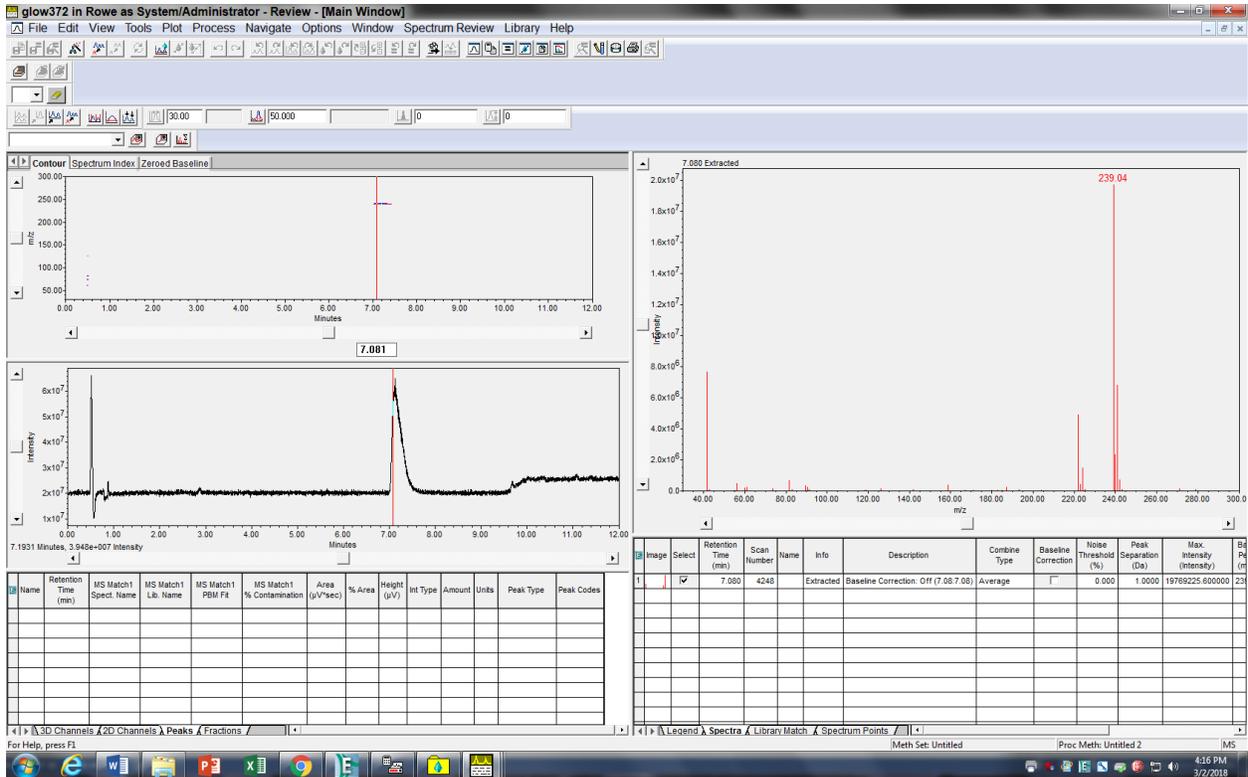


3-7 low gamma LC PDA Detector Data with Integrated Peak

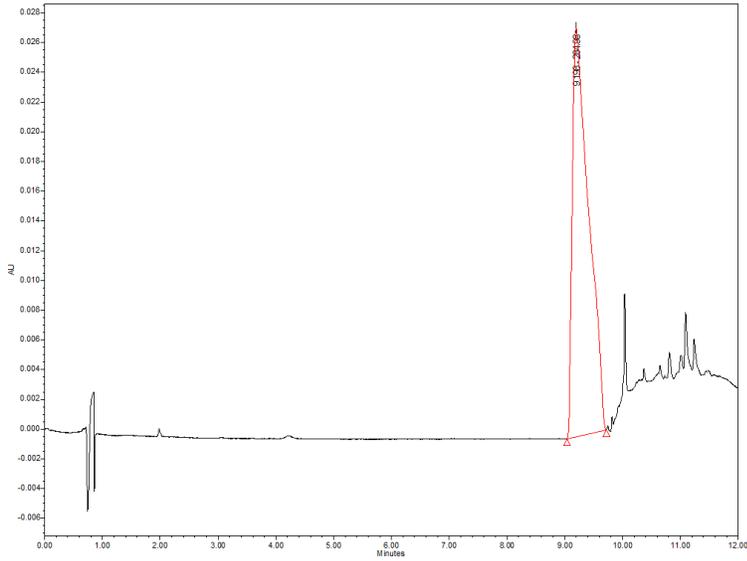


	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		7.105	294309	100.00	22091	bb			Unknown

3-7 low gamma Mass Spectrum

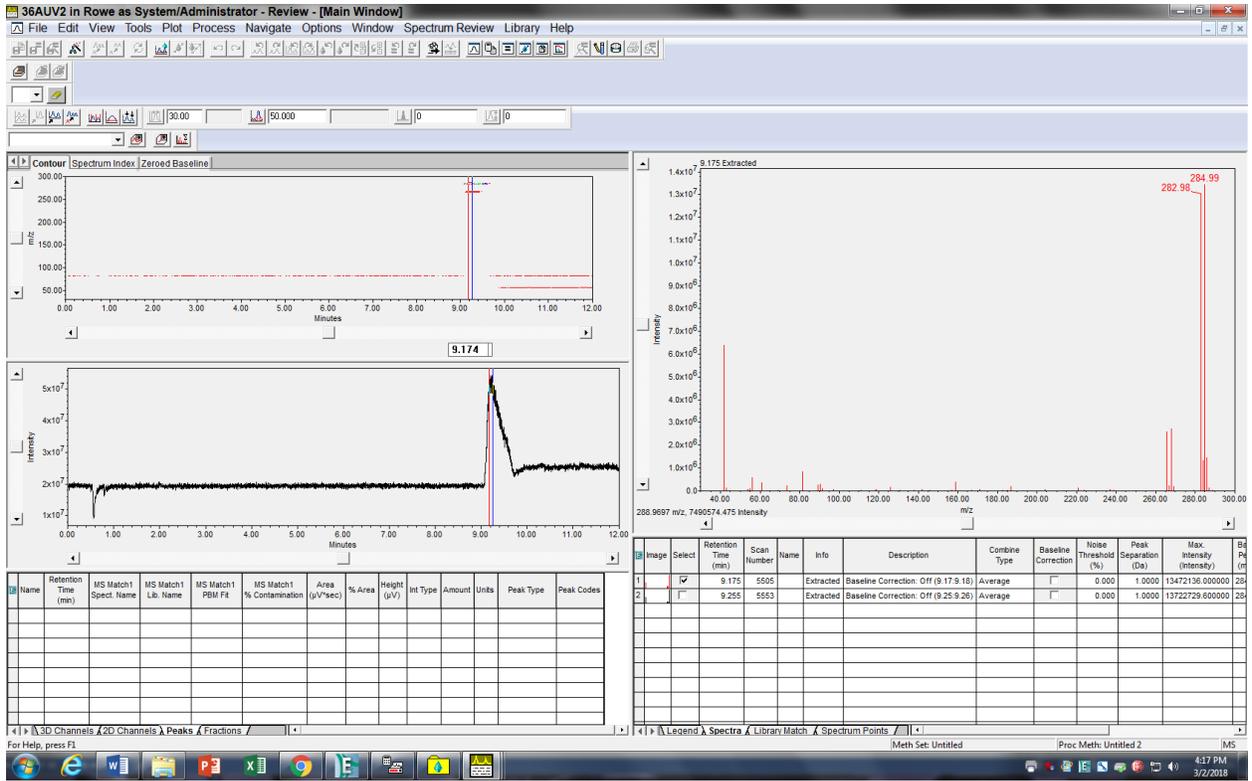


3-8 LC PDA Detector Data with Integrated Peak

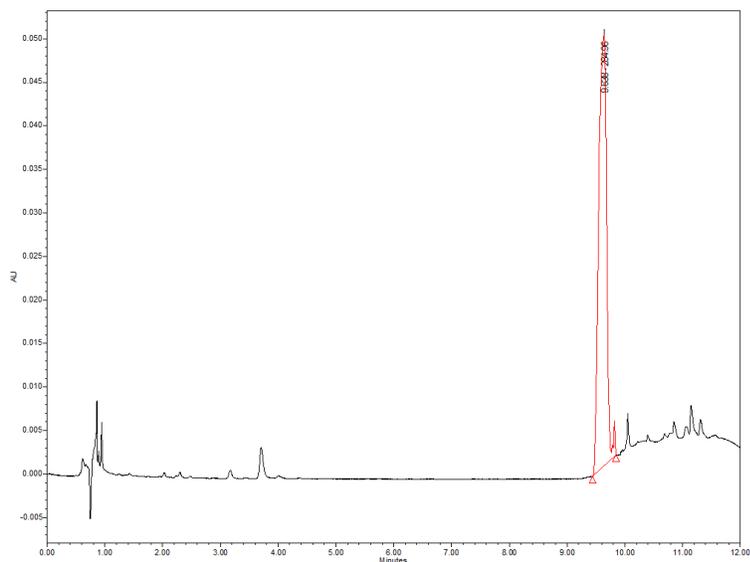


Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1	9.198	538110	100.00	27486	bb			Unknown

3-8 Mass Spectrum



3-8 low gamma LC PDA Detector Data with Integrated Peak



	Name	Retention Time	Area	% Area	Height	Int Type	Amount	Units	Peak Type
1		9.638	472479	100.00	49496	bb			Unknown

3-8 low gamma Mass Spectrum

glow382 in Rowe as System/Administrator - Review - [Main Window]

File Edit View Tools Plot Process Navigate Options Window Spectrum Review Library Help

30.00 50,000 0 0

Contour Spectrum Index Zeroed Baseline

9.576

9.577 Extracted

282.97 284.98

Image	Select	Retention Time (min)	Scan Number	Name	Info	Description	Combine Type	Baseline Correction	Noise Threshold (%)	Peak Separation (Da)	Max Intensity	Da	P4
1	<input checked="" type="checkbox"/>	9.577	5748	Extracted	Baseline Correction: Off (9.579.58)	Average		0.000	1.0000	23373241.600000	28		

30 Channels 20 Channels Peaks Fractions

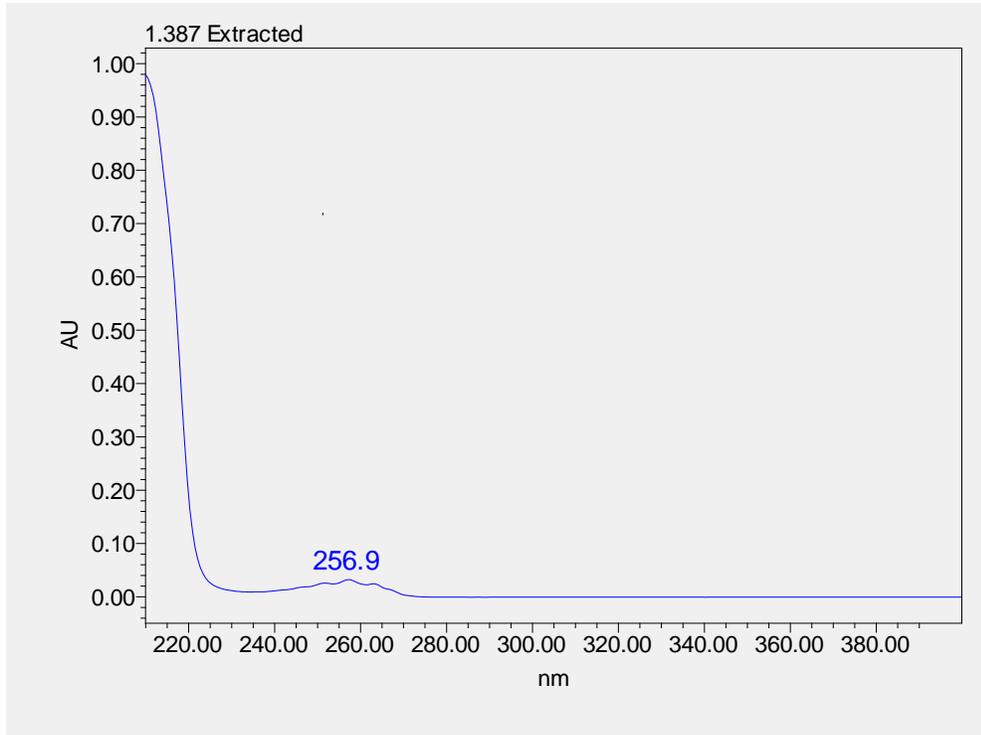
Legend Spectra Library Match Spectrum Points

Meth Set: Untitled Proc Meth: Untitled 2 IMS

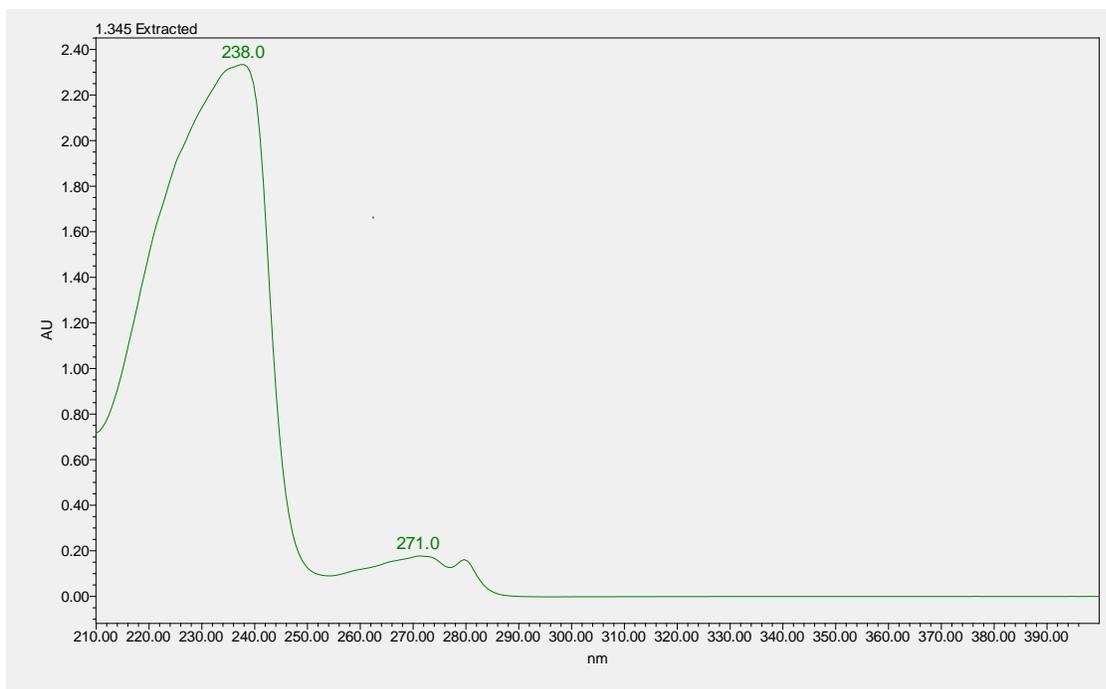
4:21 PM 3/2/2018

Absorbance Spectrum of Amino Acids Absorbance Spectrum of amino acids, resolution = 0.6 nm, range = 209.9nm - 399.9 nm

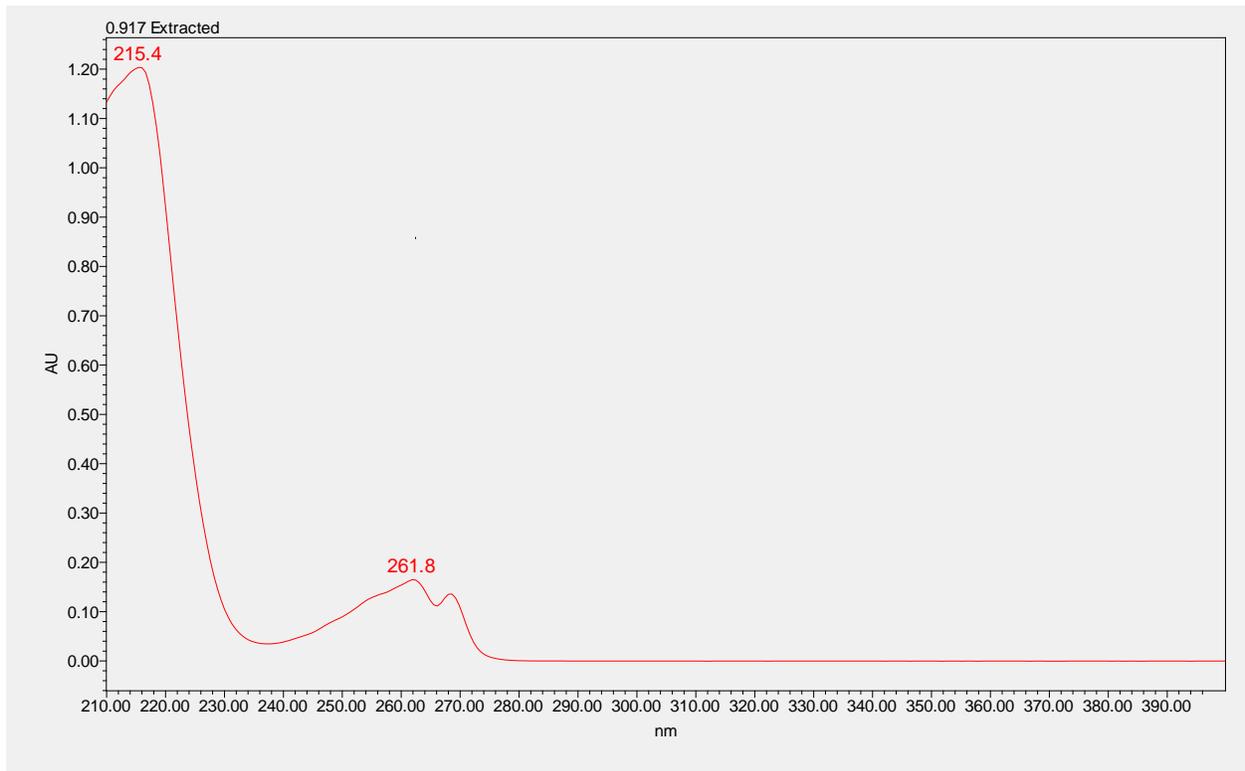
Amino Acid #1



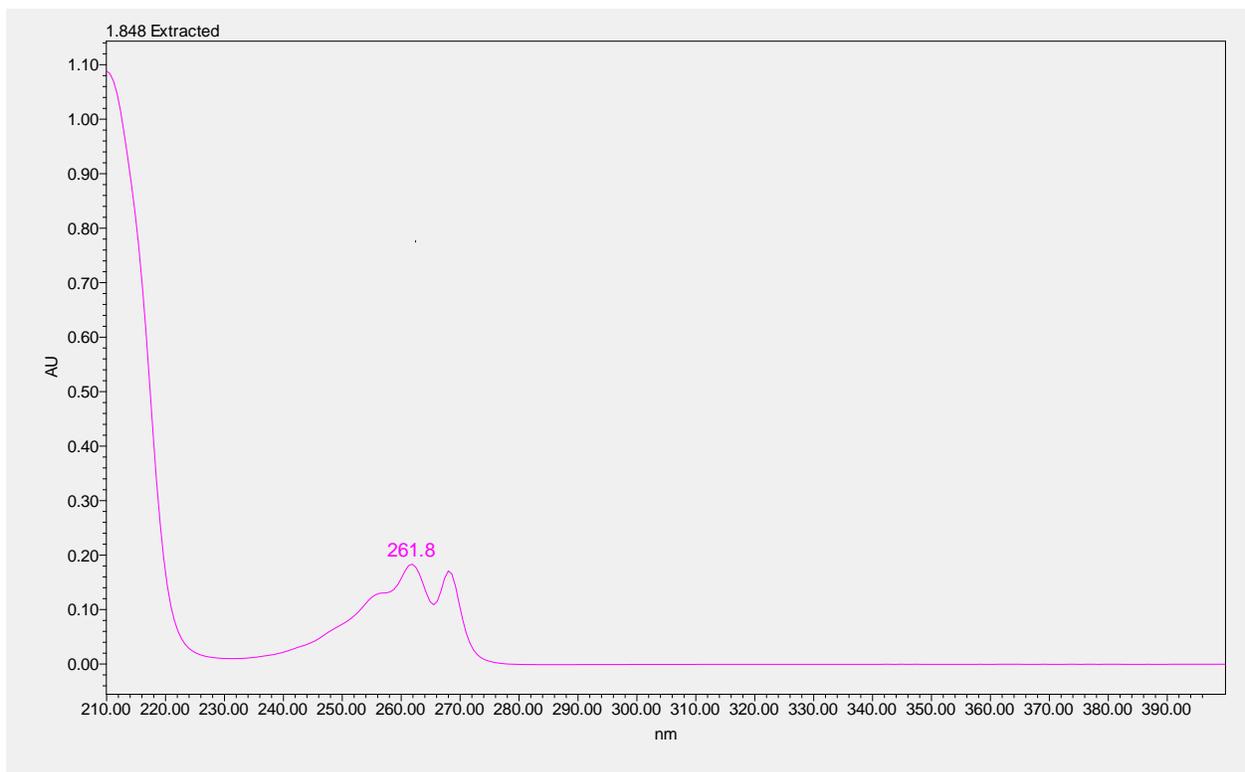
Amino Acid #1-1



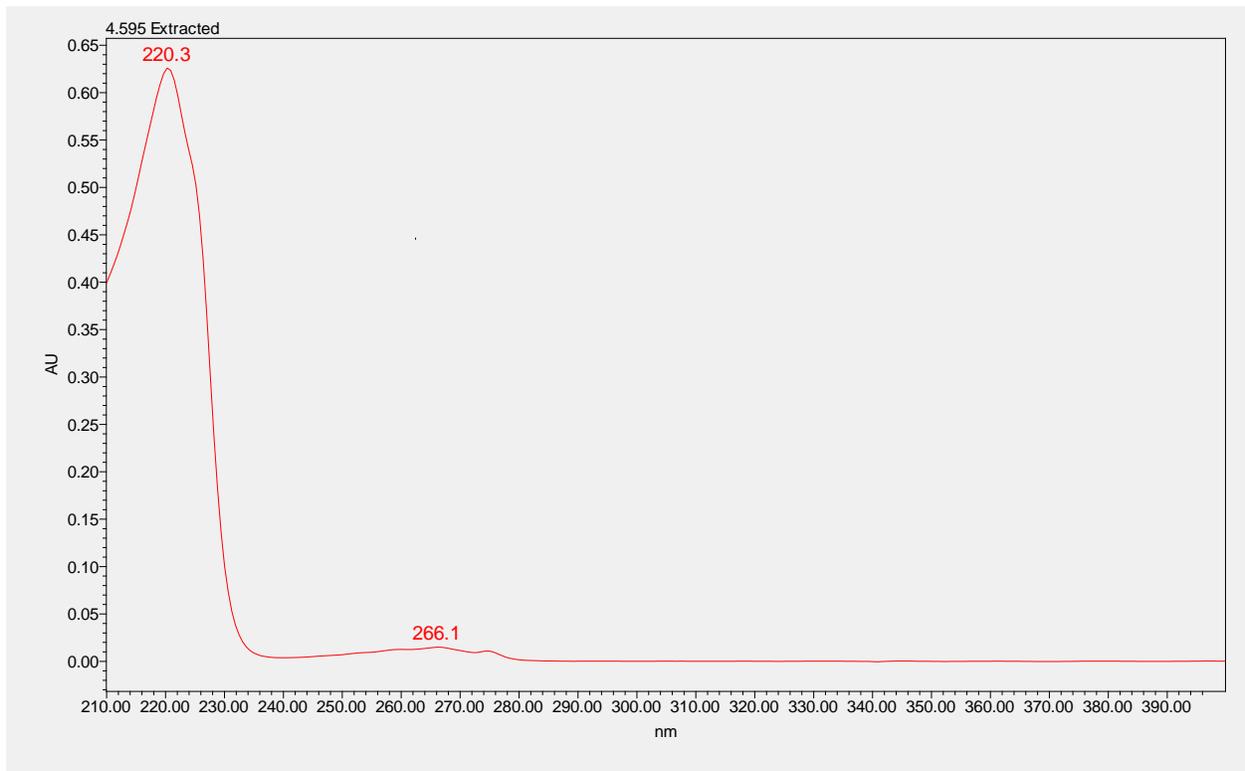
Amino Acid #1-3



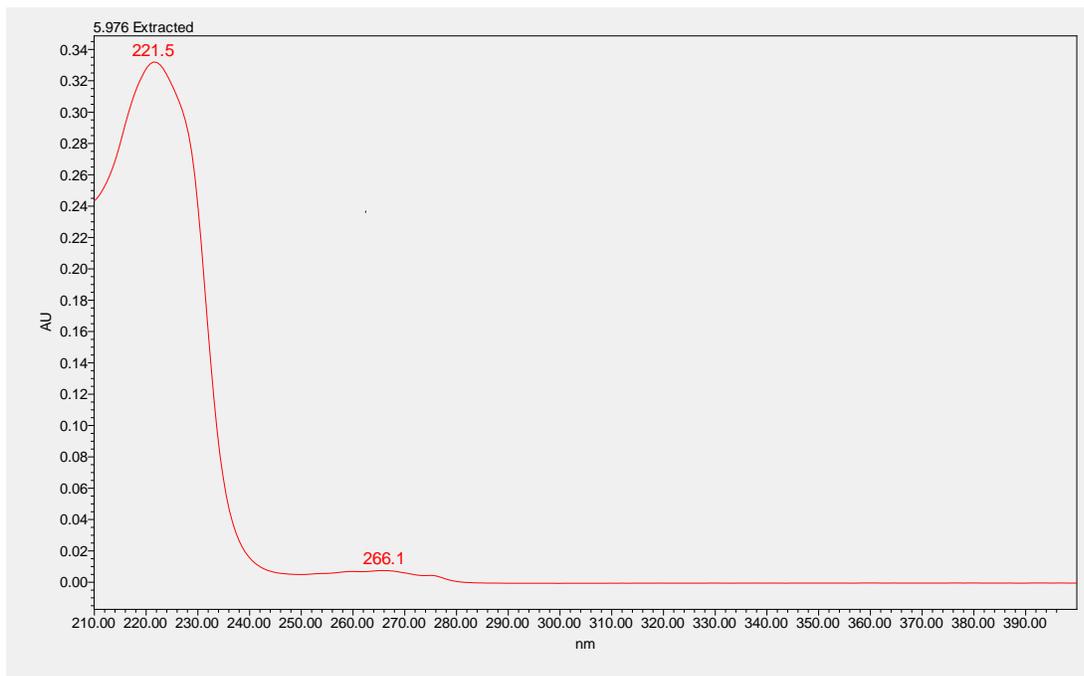
Amino Acid #1-6



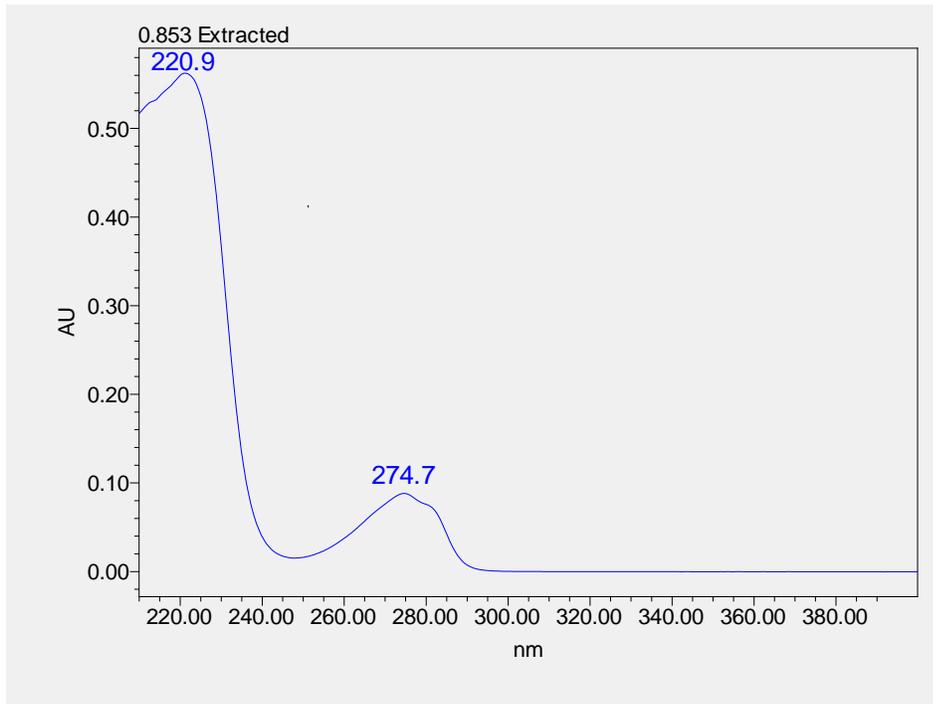
Amino Acid #1-7



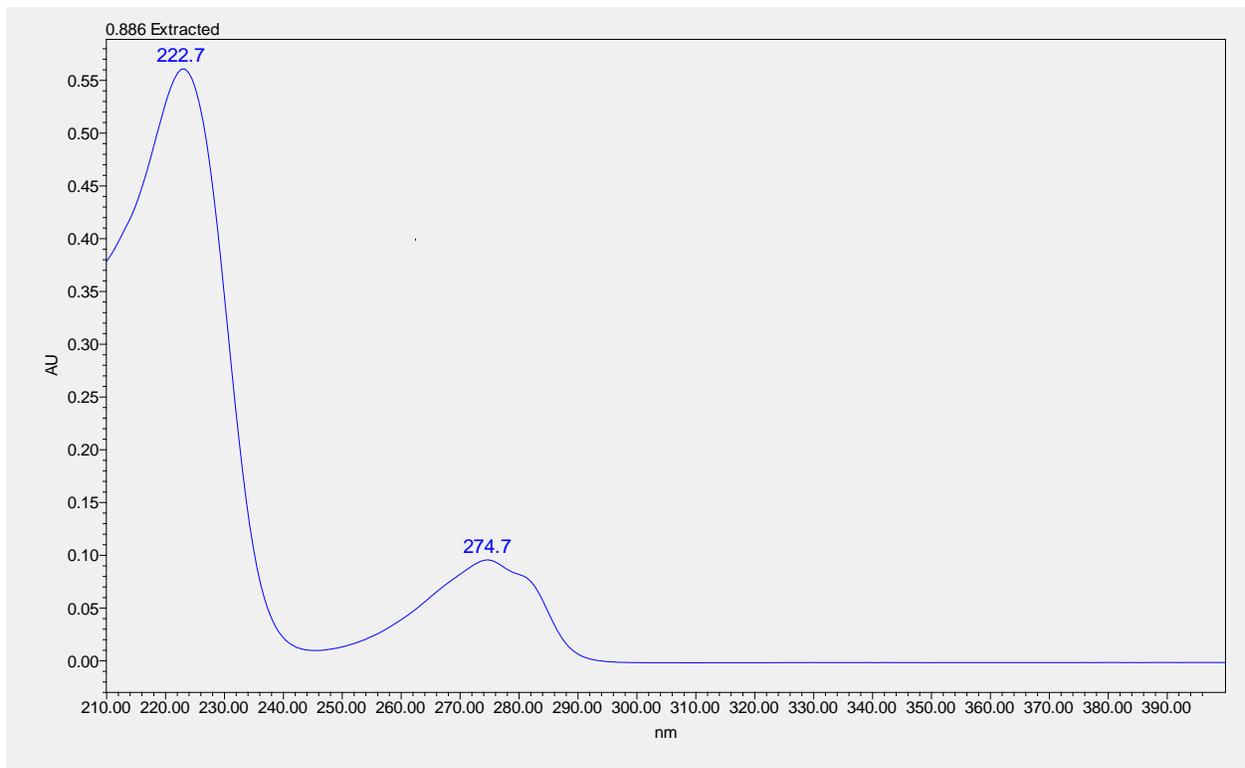
Amino Acid 1-8



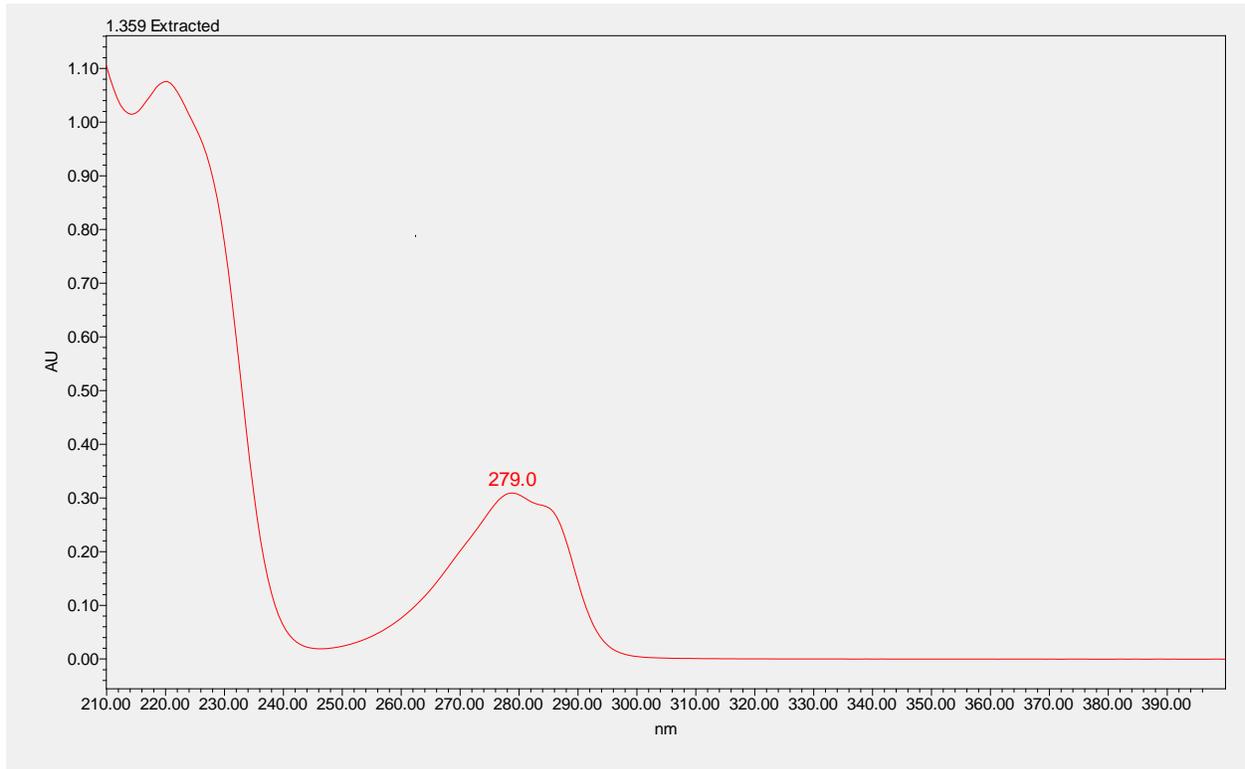
Amino Acid 2



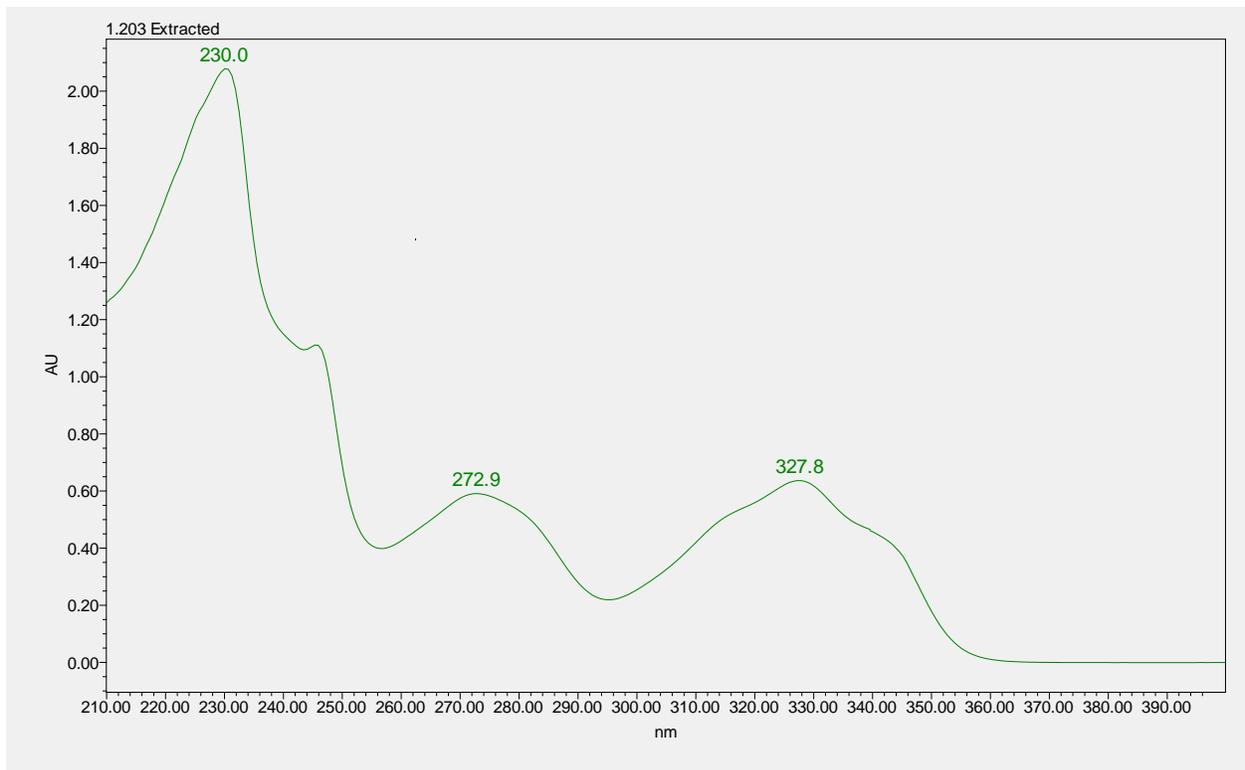
Amino Acid 2-1



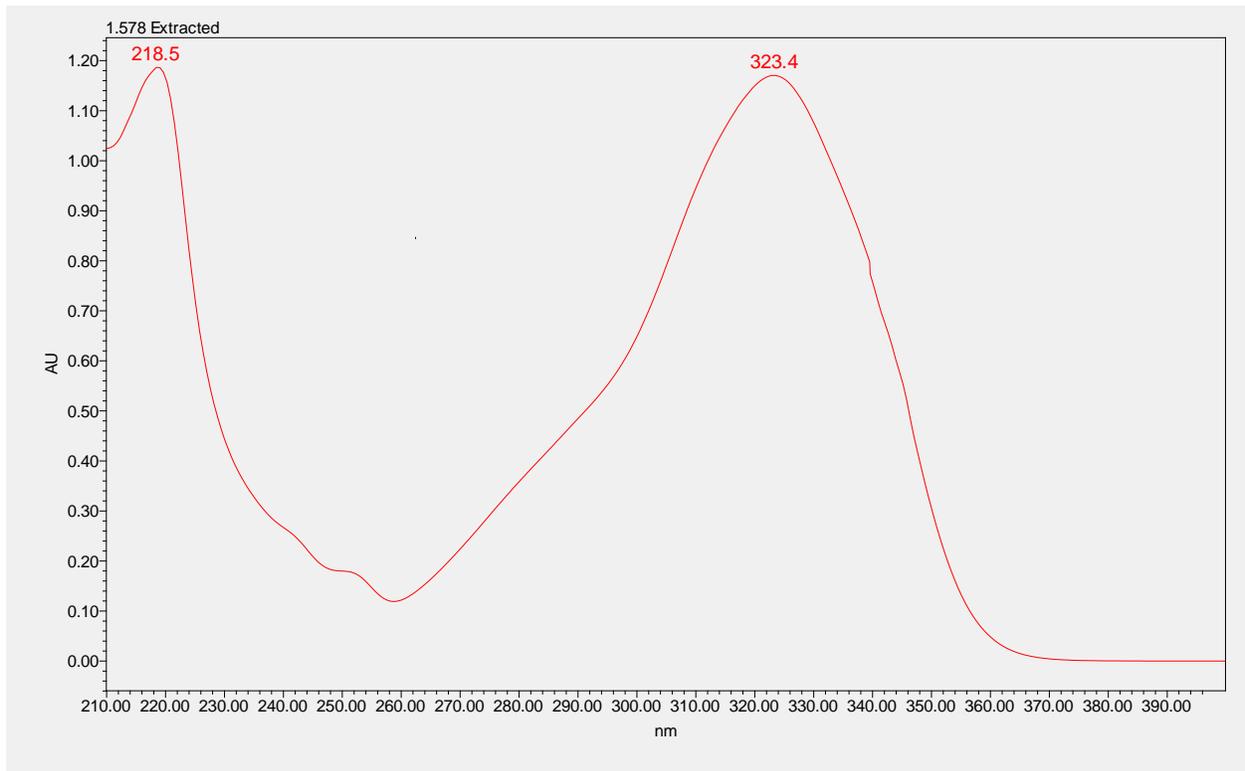
Amino Acid 2-7



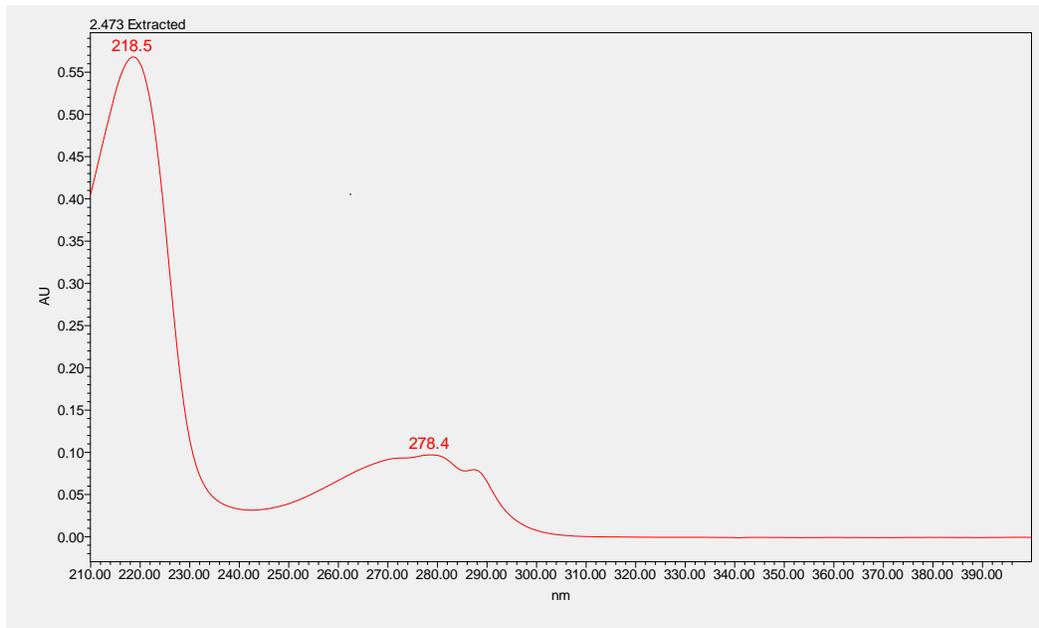
Amino Acid 4



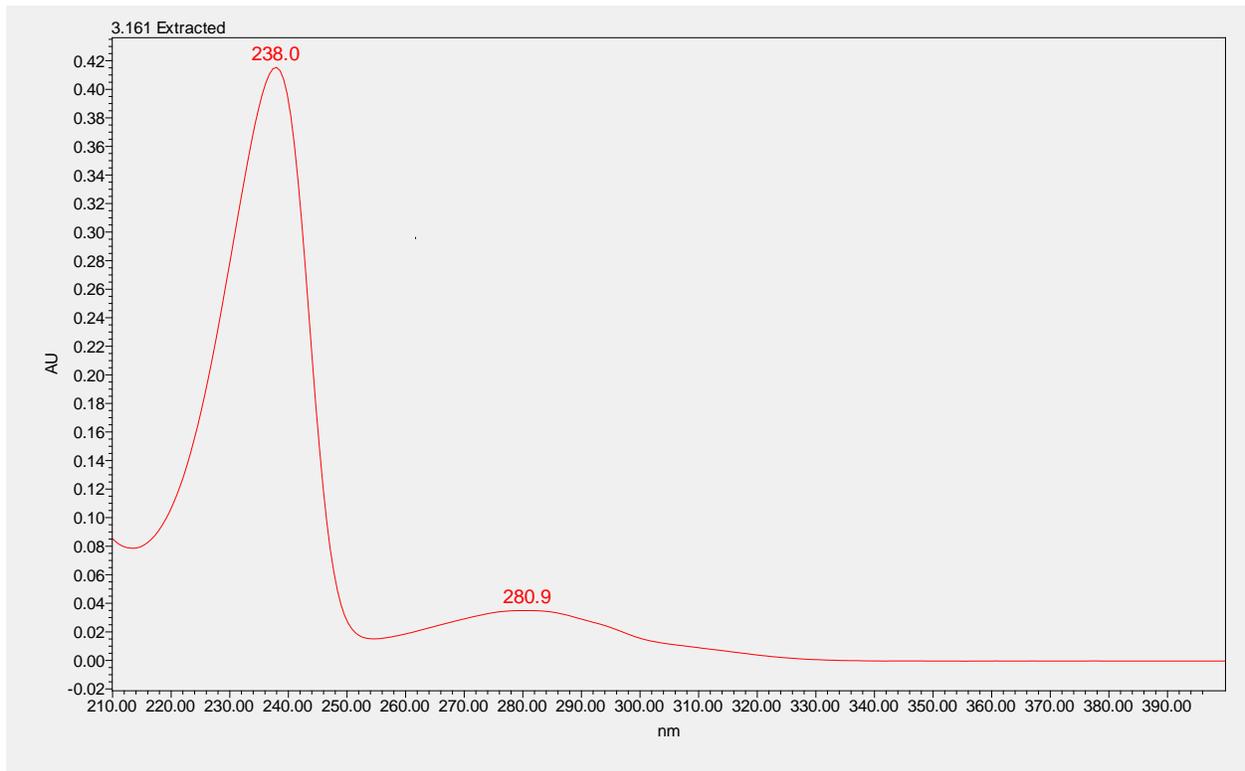
Amino Acid 5



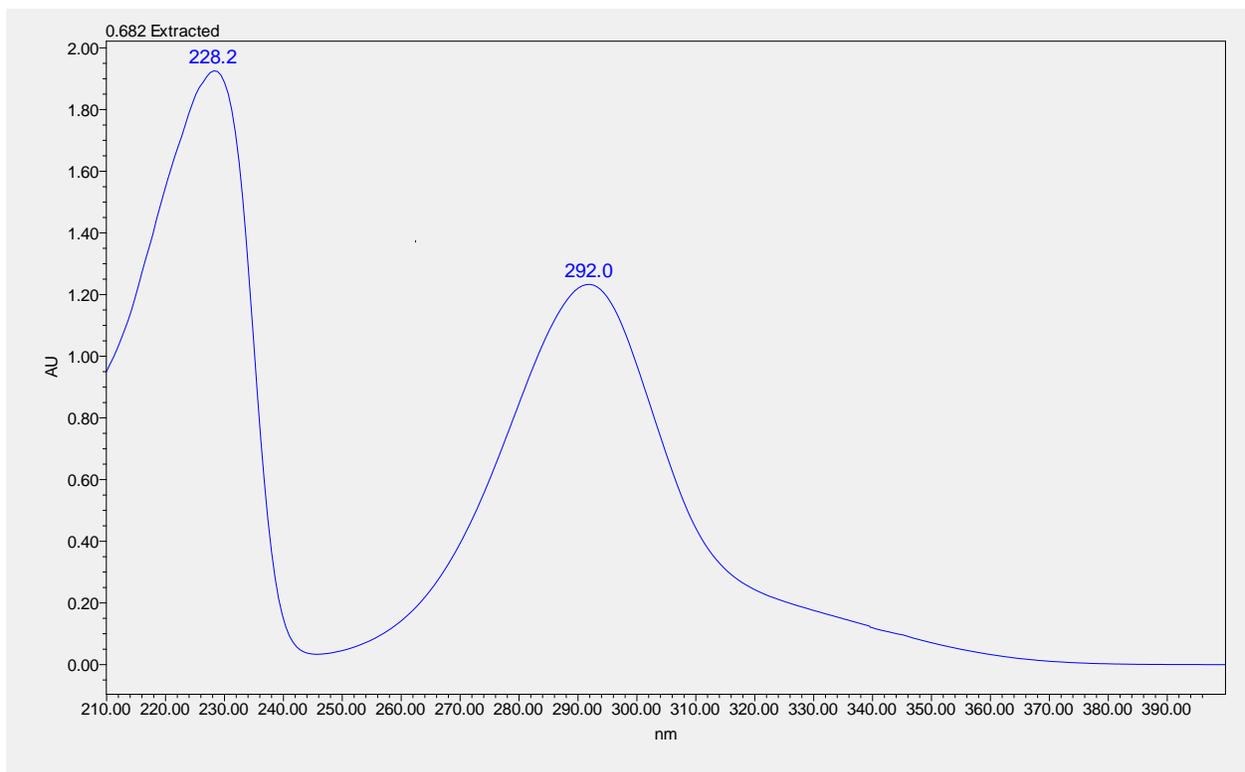
Amino Acid #3



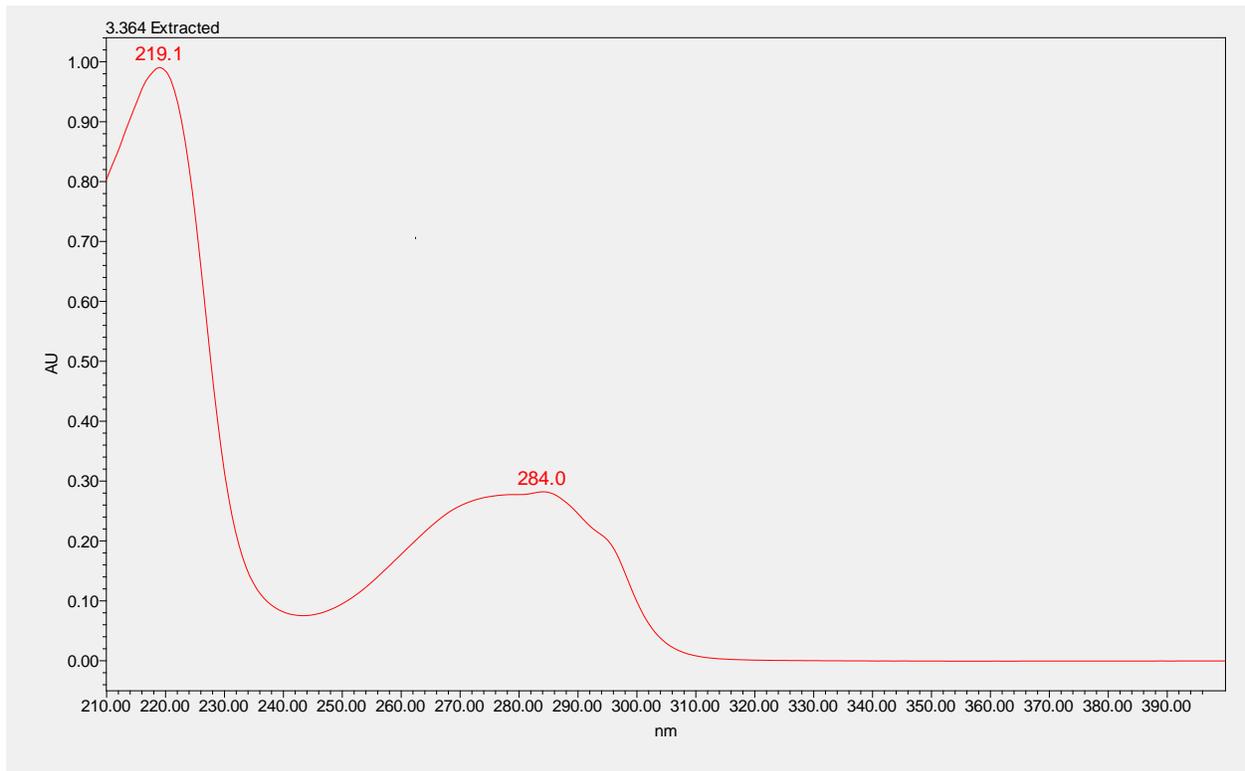
Amino Acid 3-1



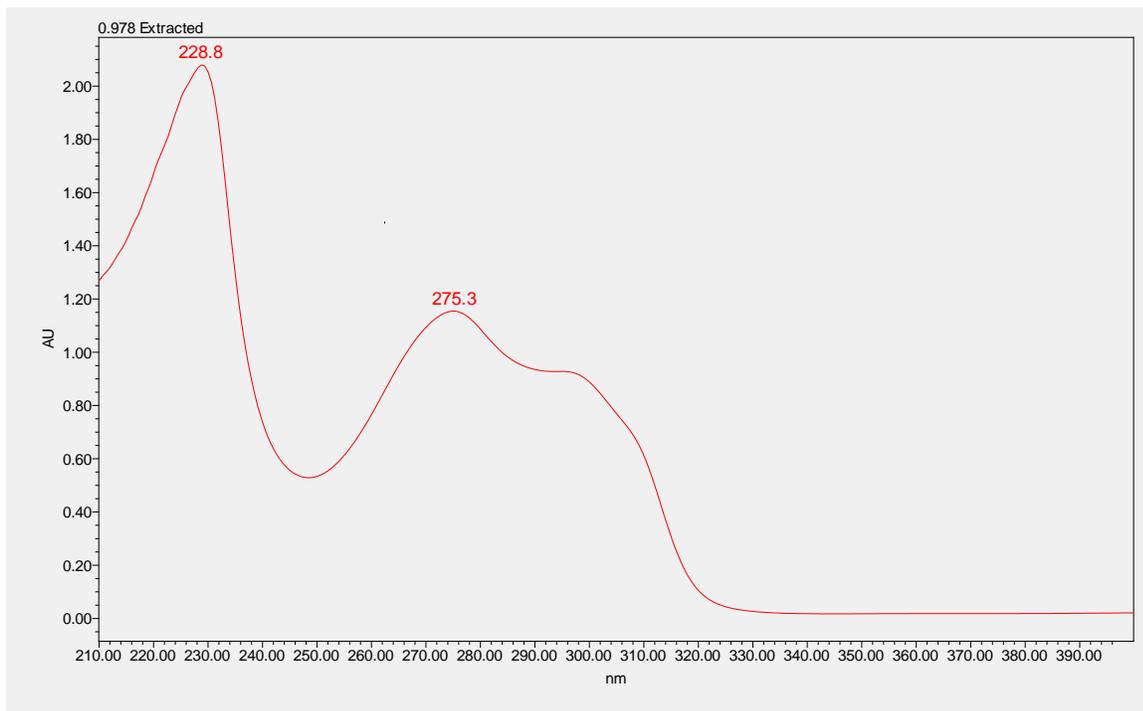
Amino Acid 3-2



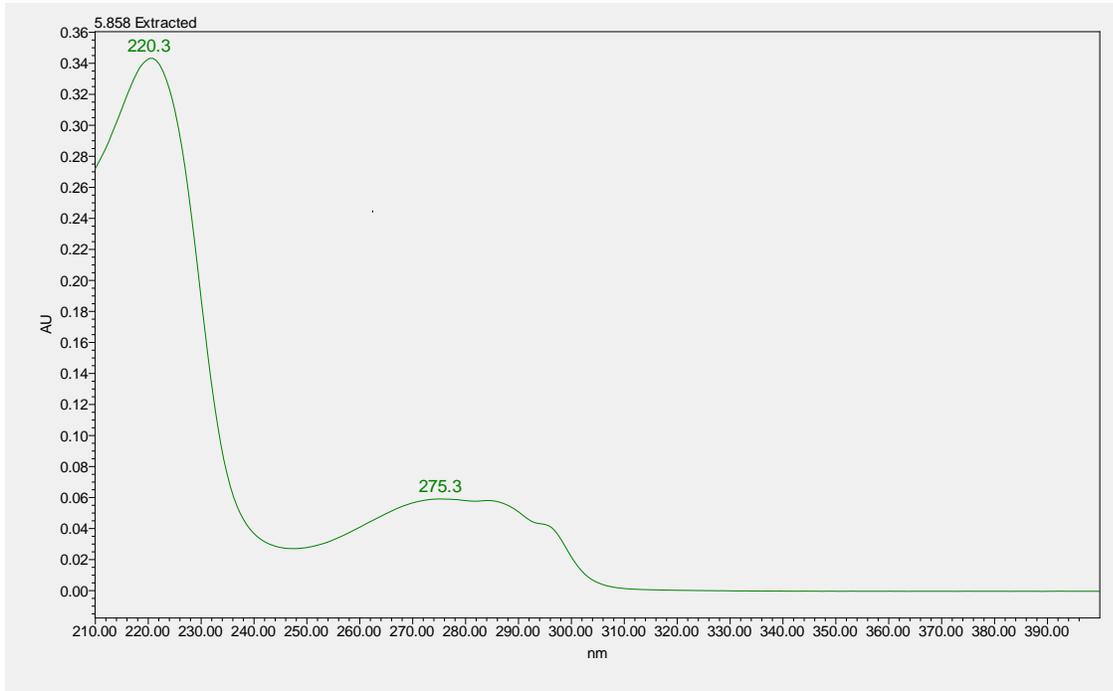
Amino Acid 3-3



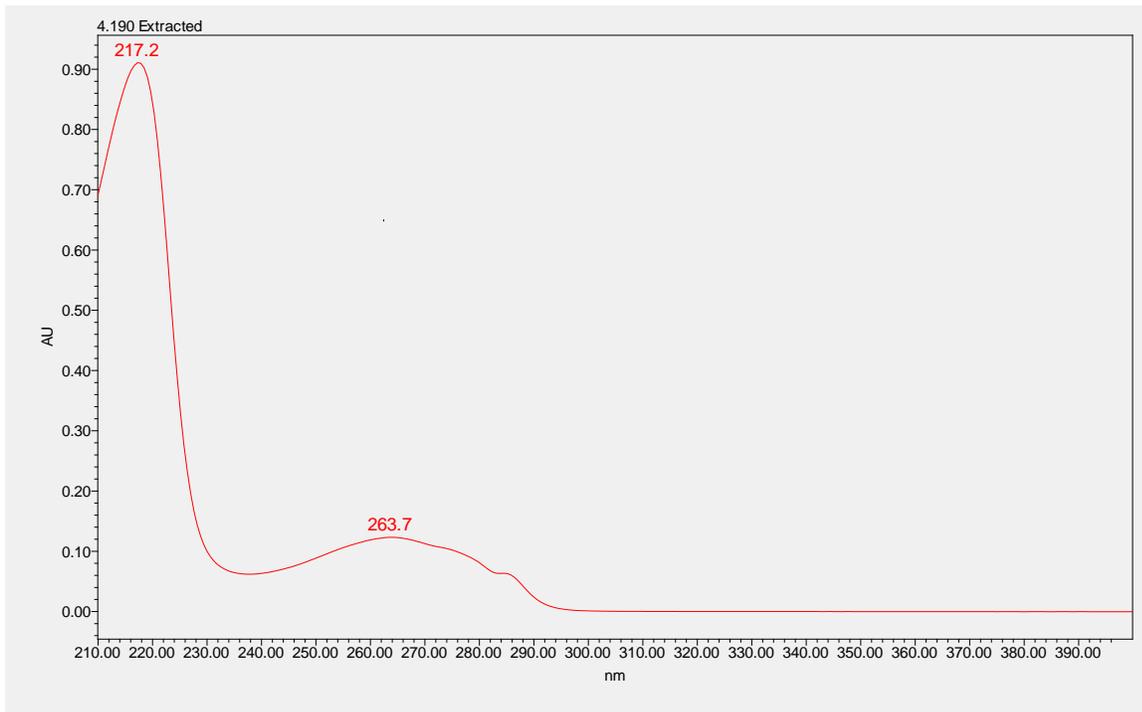
Amino Acid 3-4



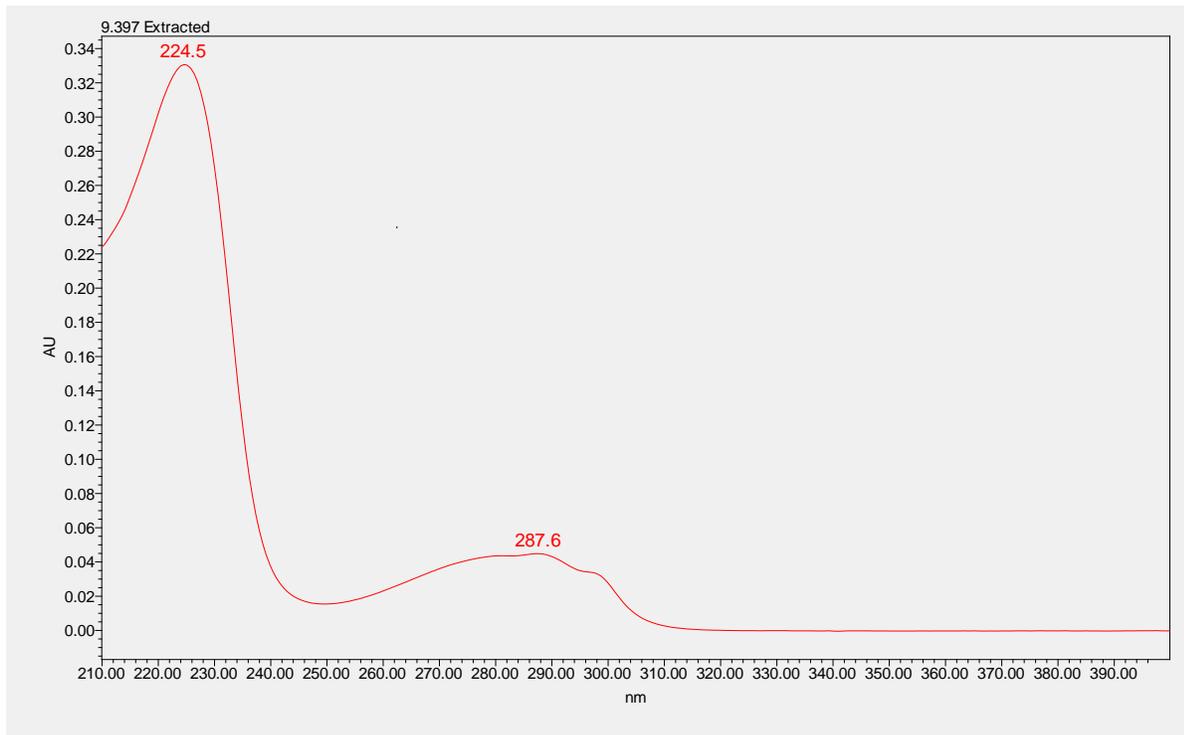
Amino Acid 3-5



Amino Acid #3-6



Amino Acid #3-7



Amino Acid #3-8

