

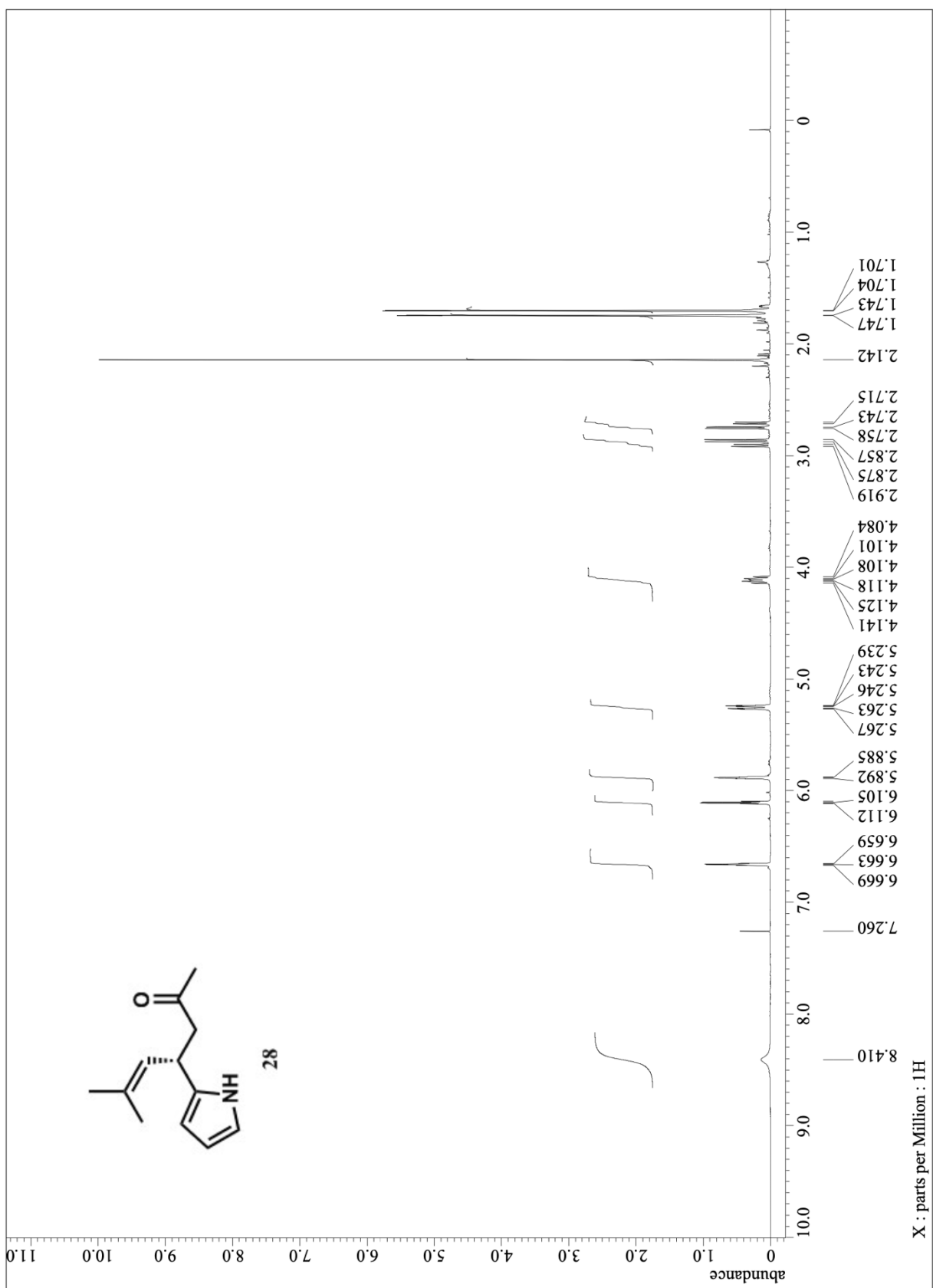
Rate-Dependence on Inductive and Resonance Effects for the Organocatalyzed Enantioselective Conjugate Addition of Alkenyl and Alkynyl Boronic Acids to β -Indolyl Enones and β -Pyrrolyl Enones.

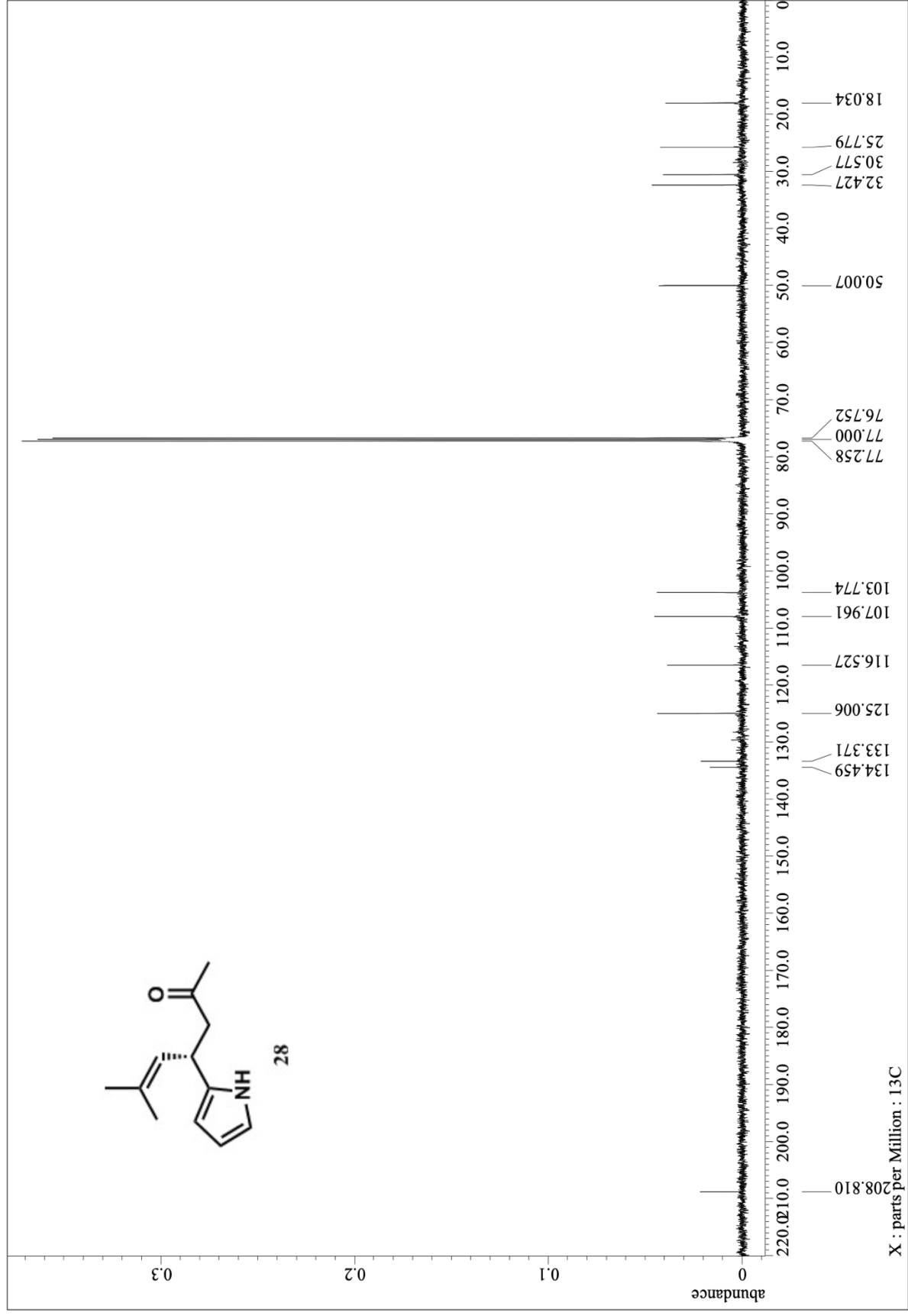
Amy Boylan¹, Thien N. Nguyen^{1,2}, Brian J. Lundy^{1,3}, Jian-Yuan Li^{1,4}, Ravikrishna Vallakati^{1,5}, Sasha Sundstom^{1,6}, and Jeremy A. May^{1,*}

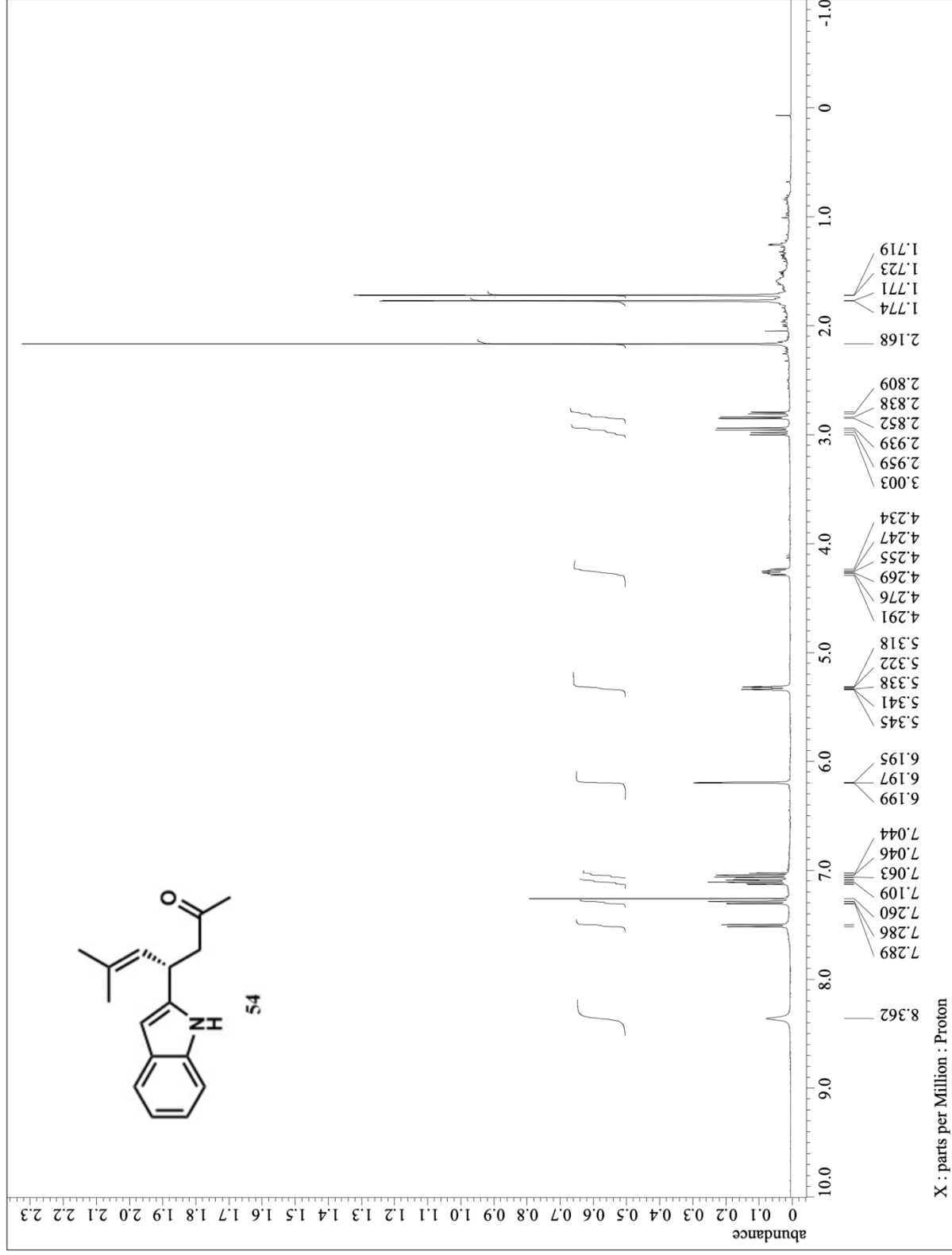
Department of Chemistry, University of Houston, 3585 Cullen Blvd, Fleming Bldg. Room 112, TX 77204-5003, United States

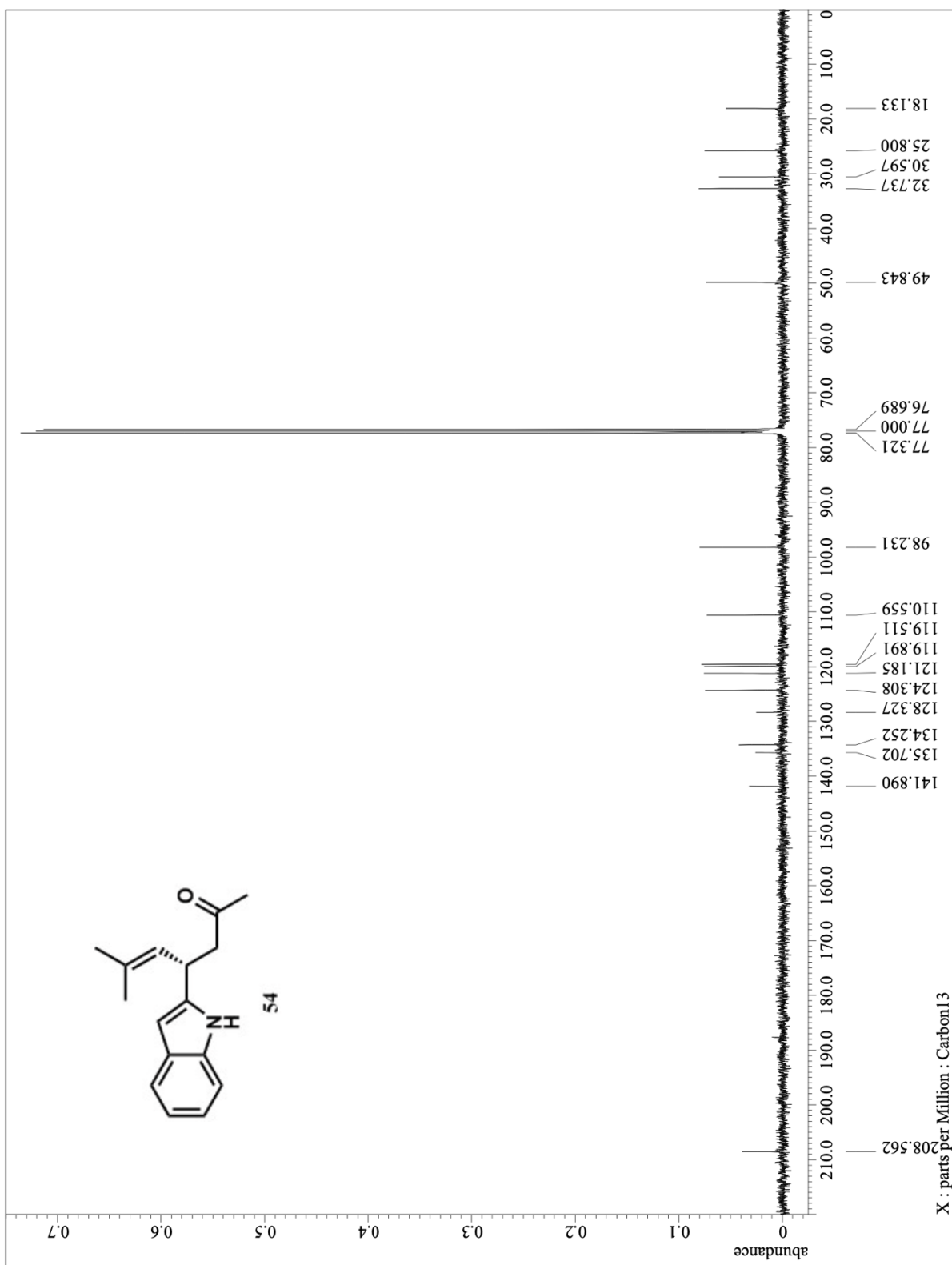
TABLE OF CONTENTS

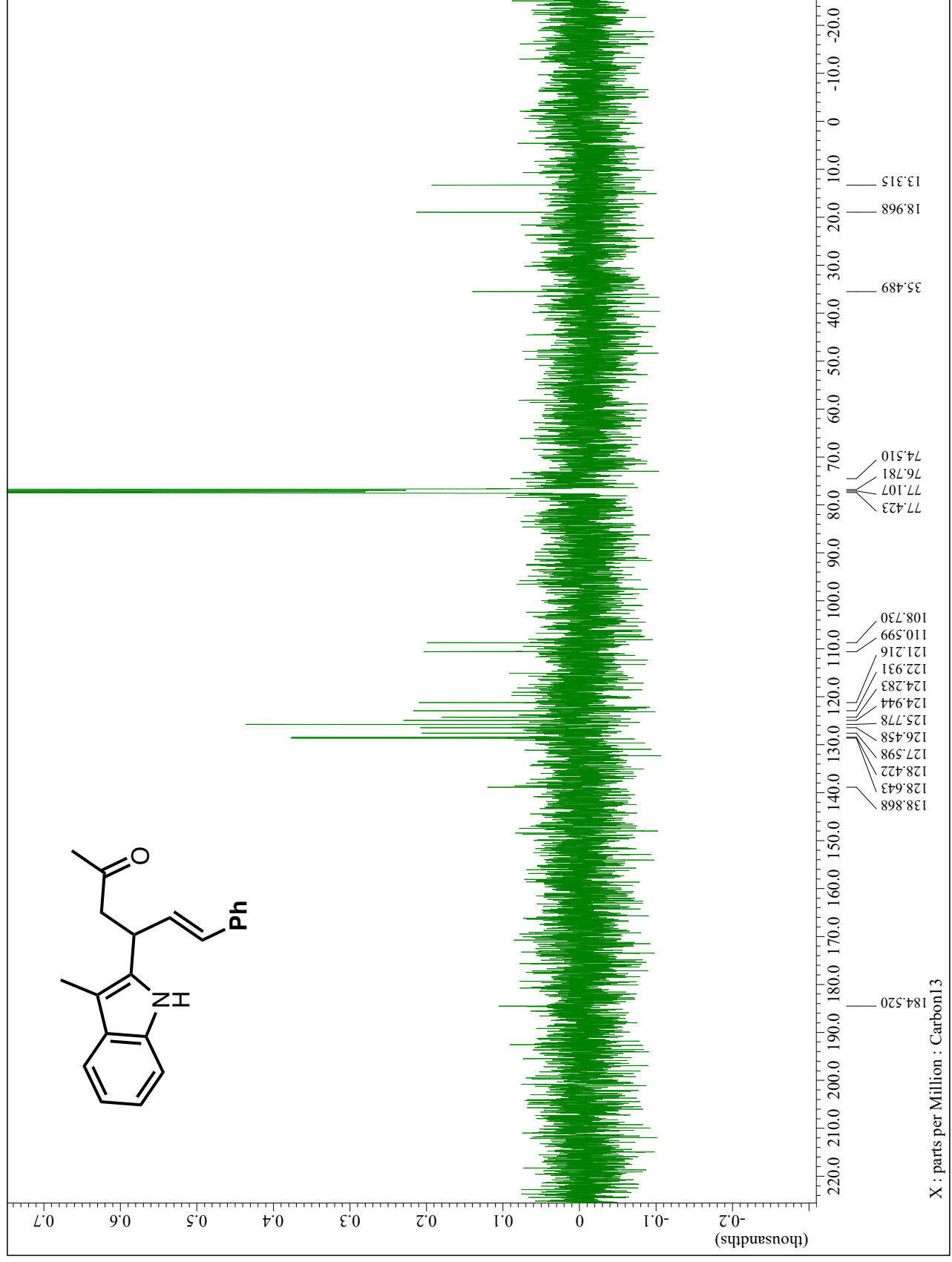
Spectra of Starting Materials.....	SI-1
Spectra of Products.....	SI-2
HPLC data.....	SI-3

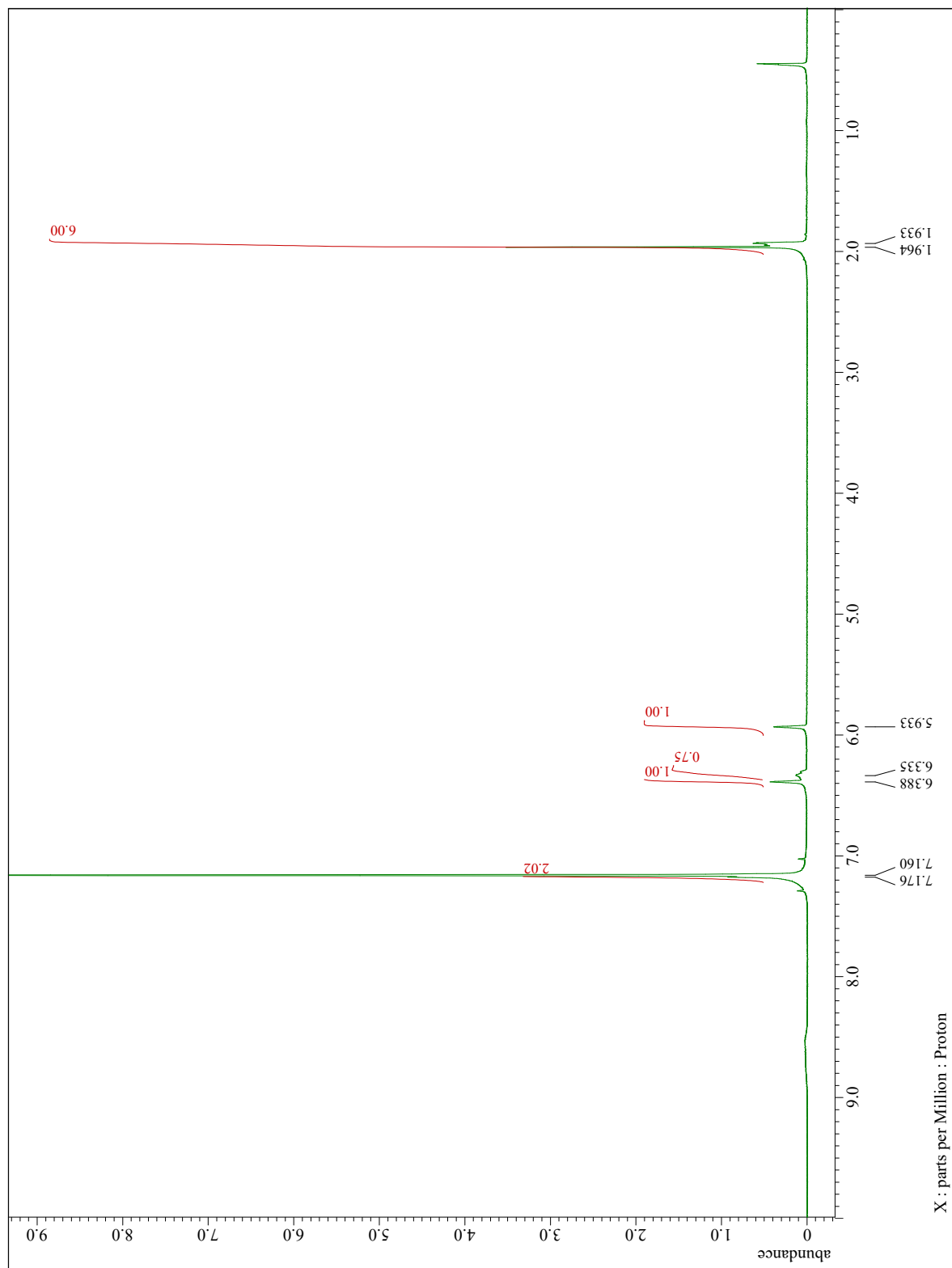


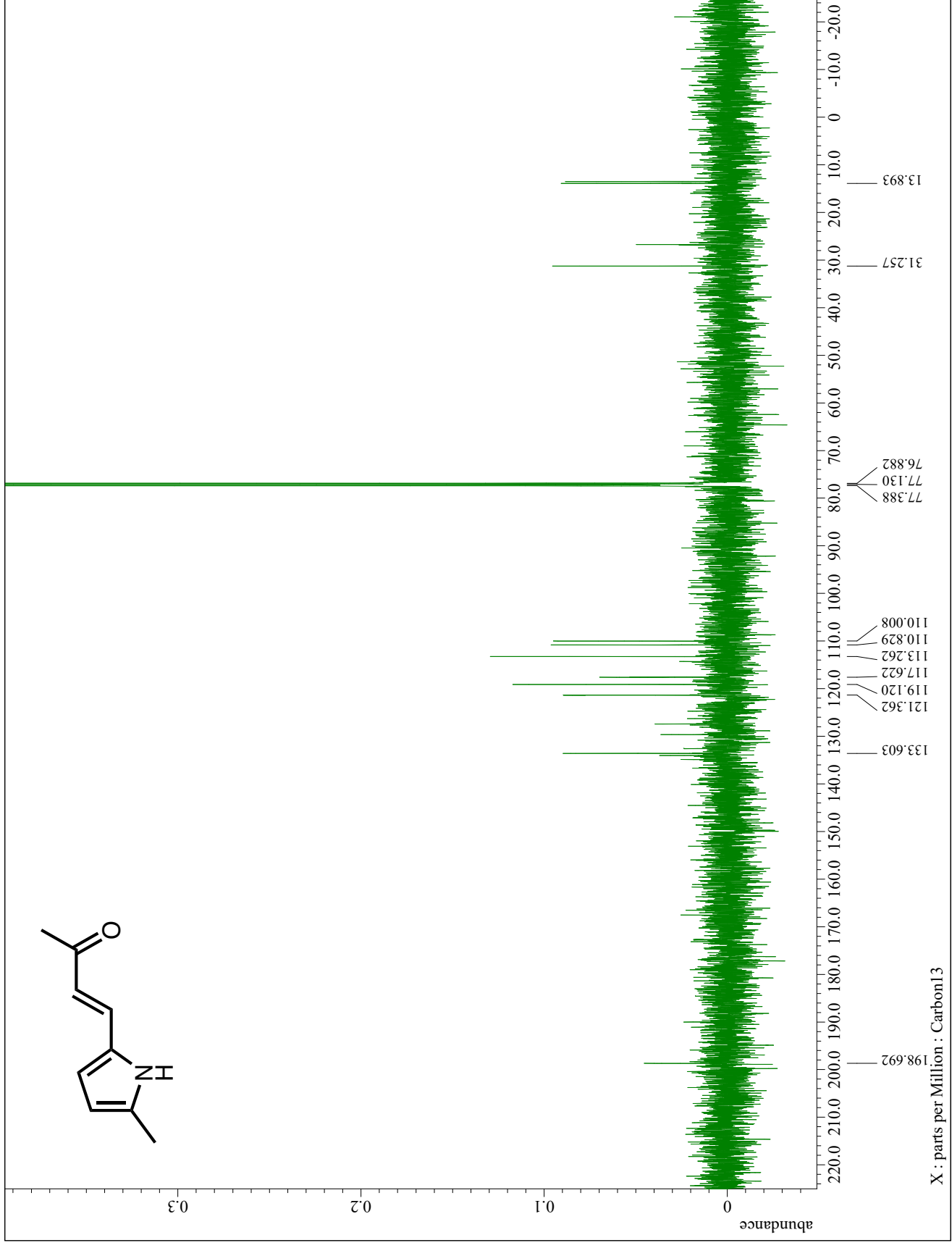


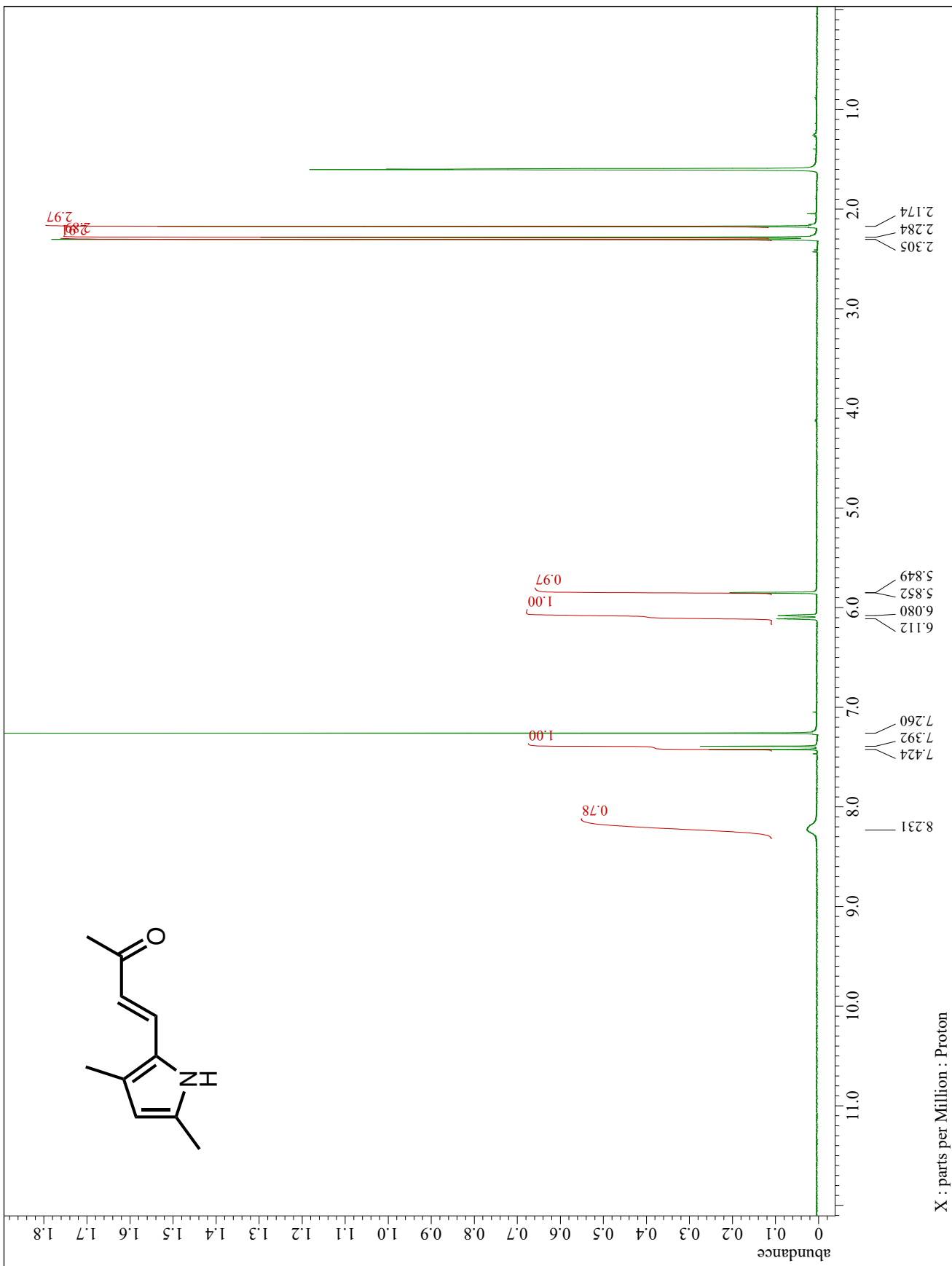


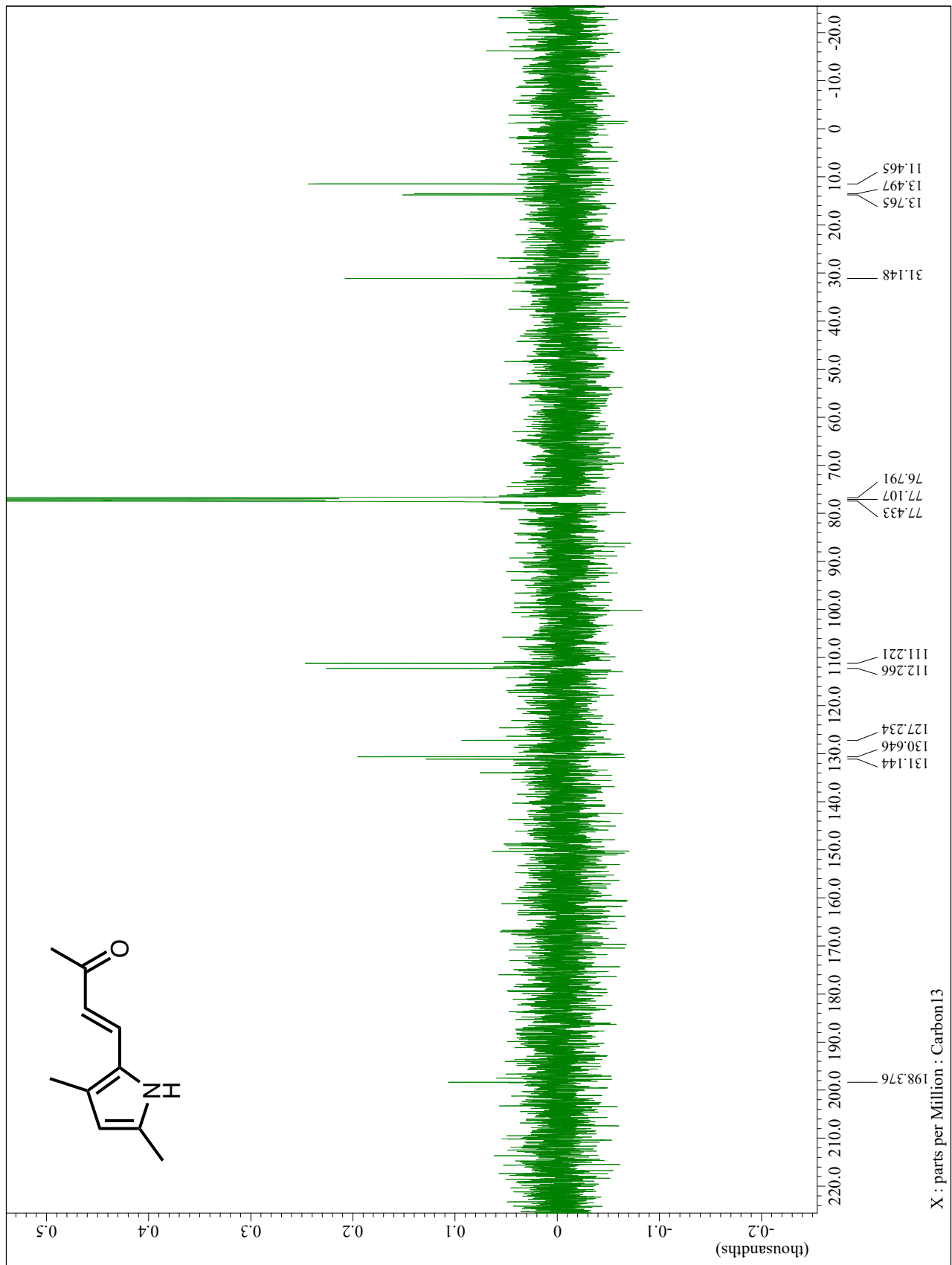


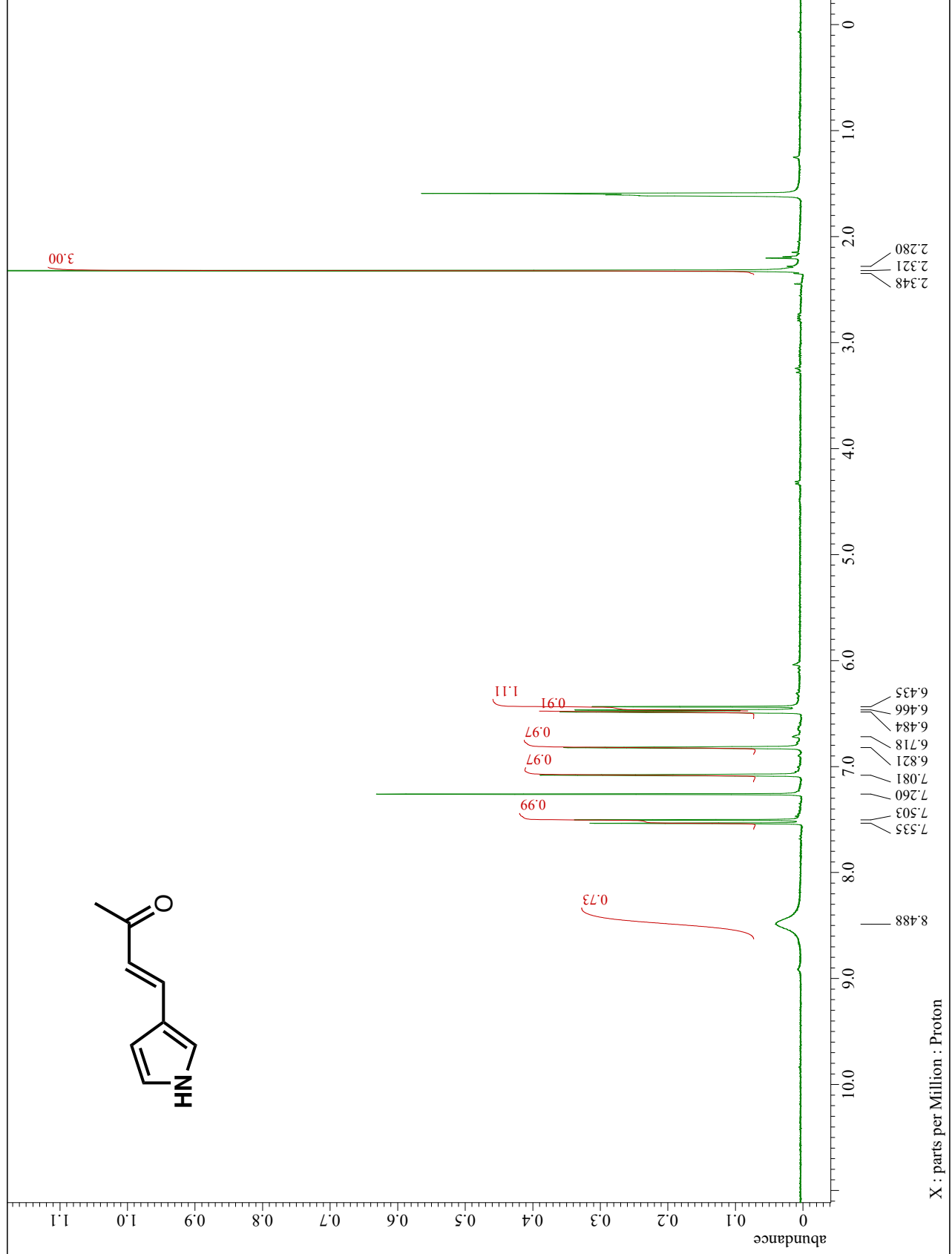


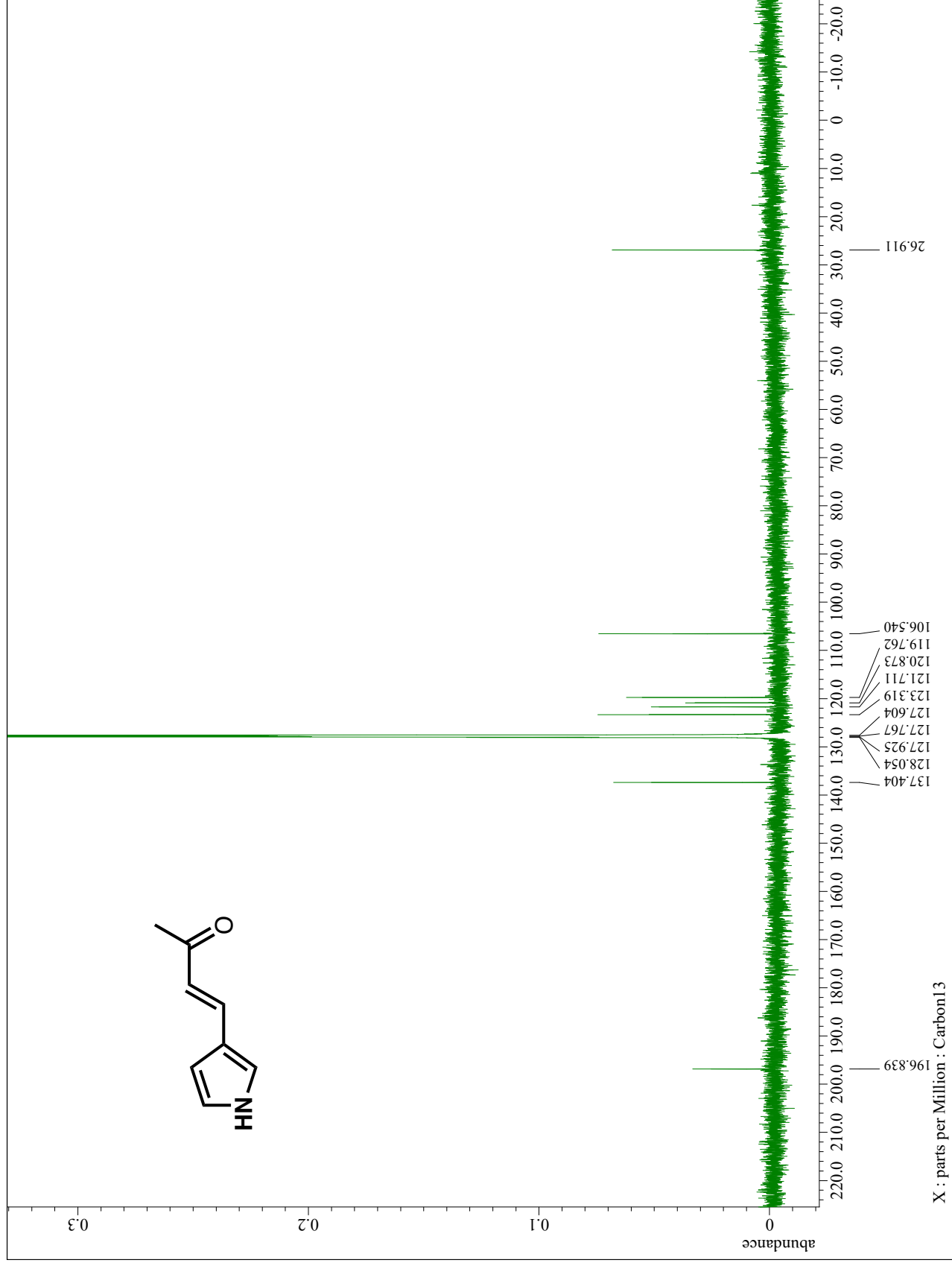
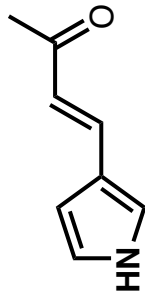


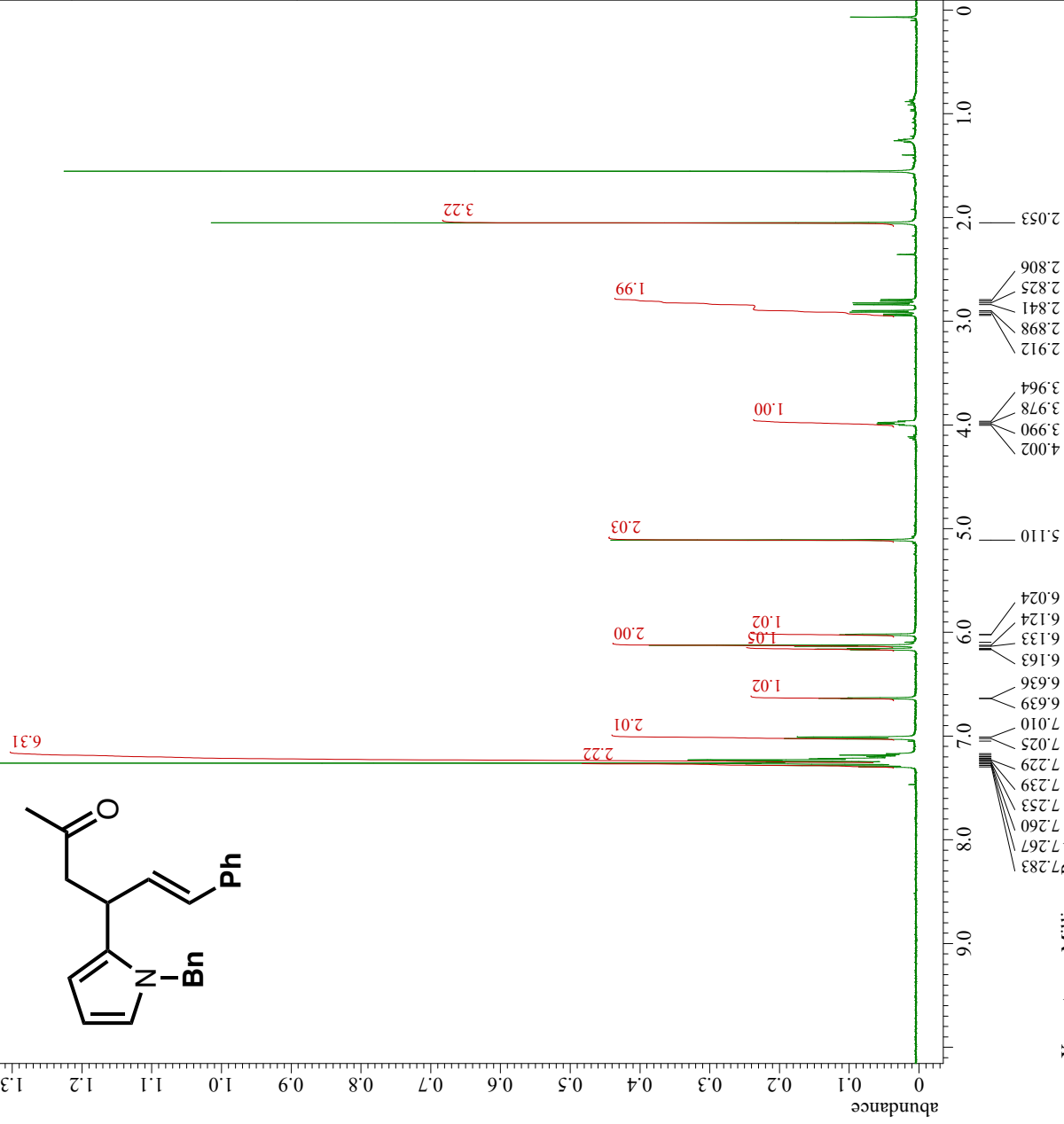
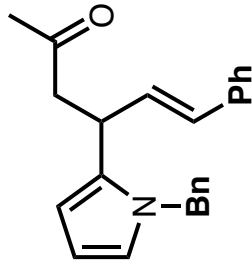












X : parts per Million : Proton



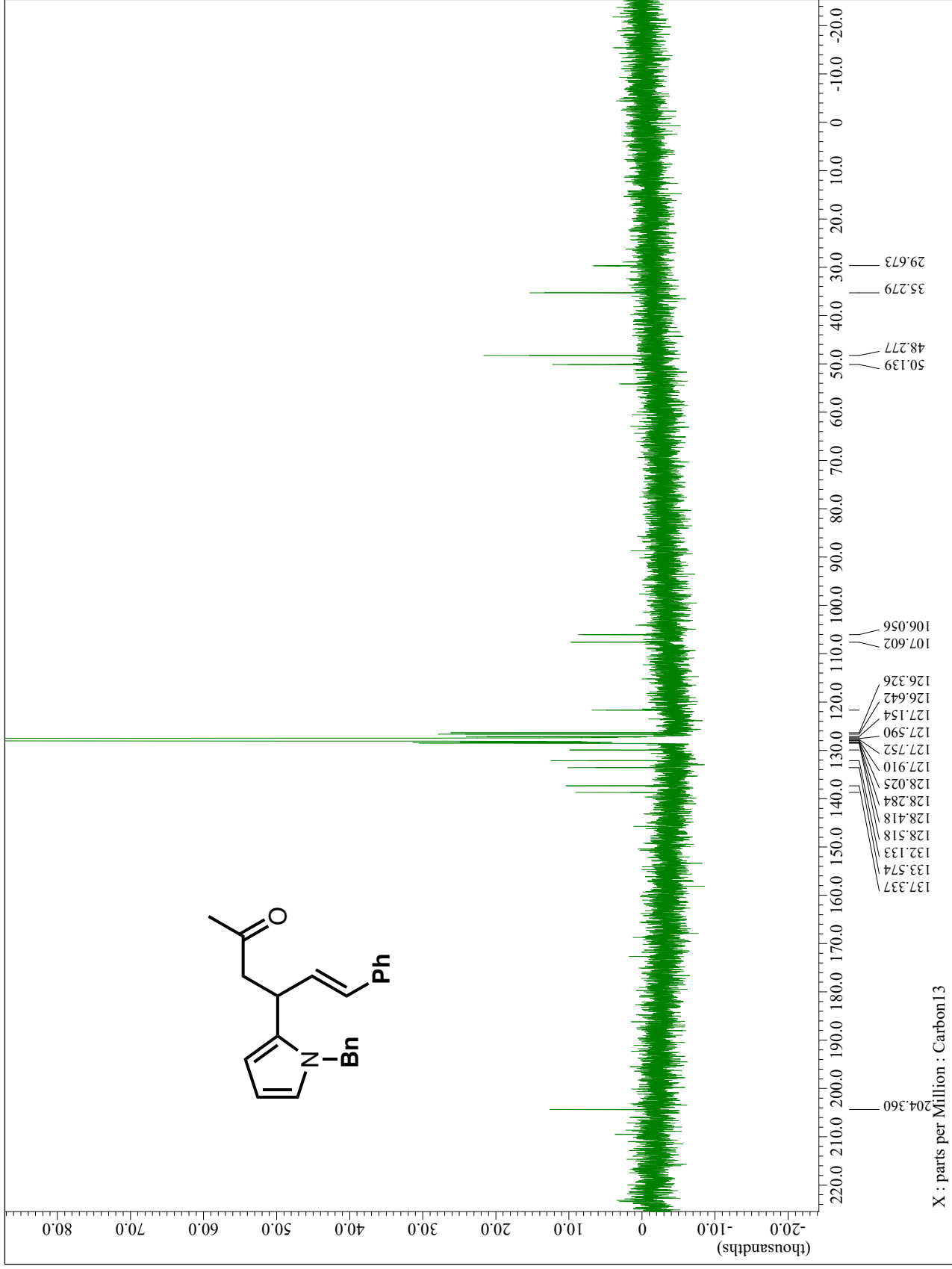
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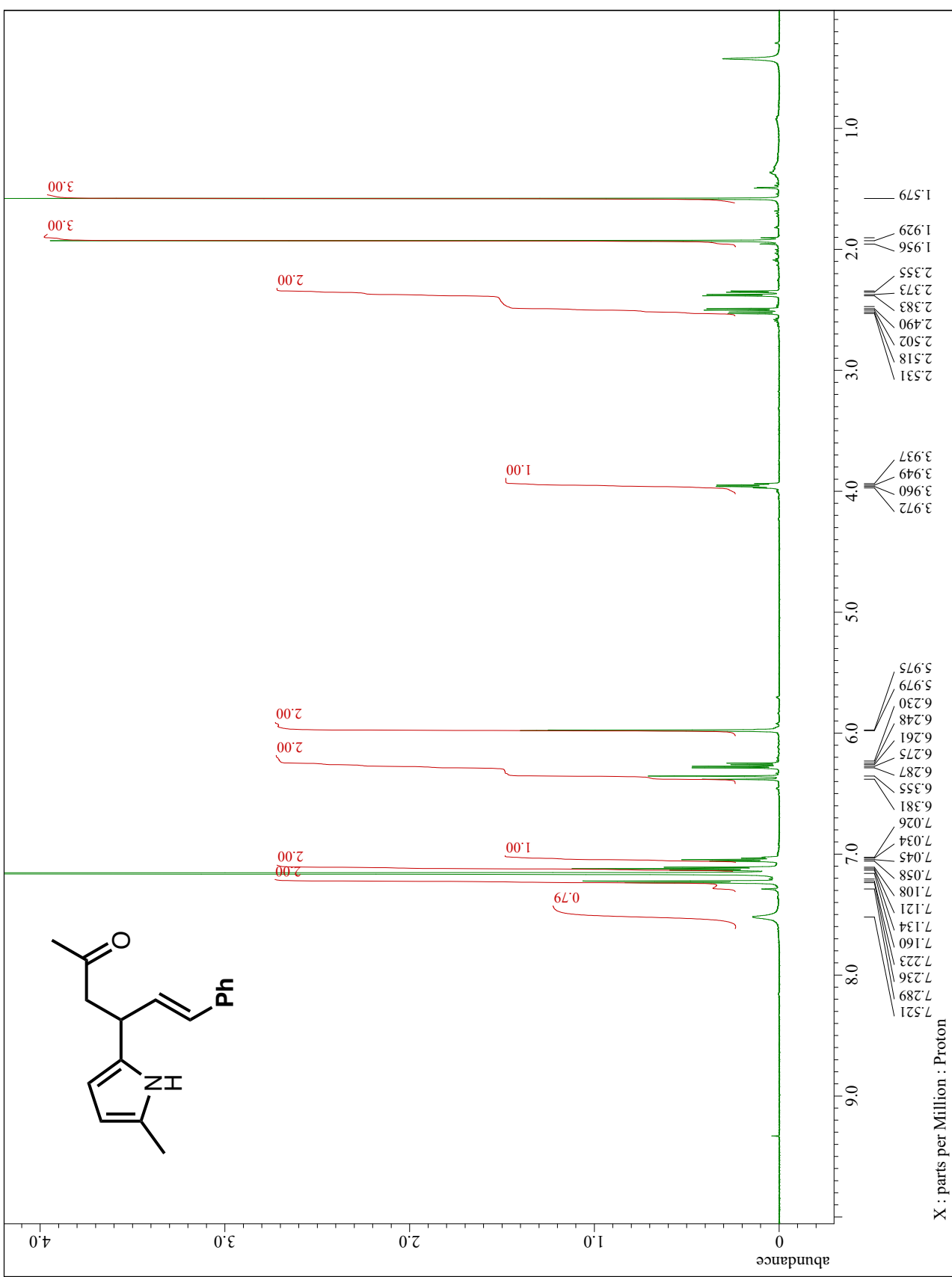
----- PROCESSING PARAMETERS -----
dc balance( 0, FALSE )
scp( 0.2[Hz], 0.0[s] )
trapezoid( 0[%], 0[%], 80[%], 100[%] )
zerofill( 1 )
fft( 1, TRUE, TRUE )
machinephase
bpm

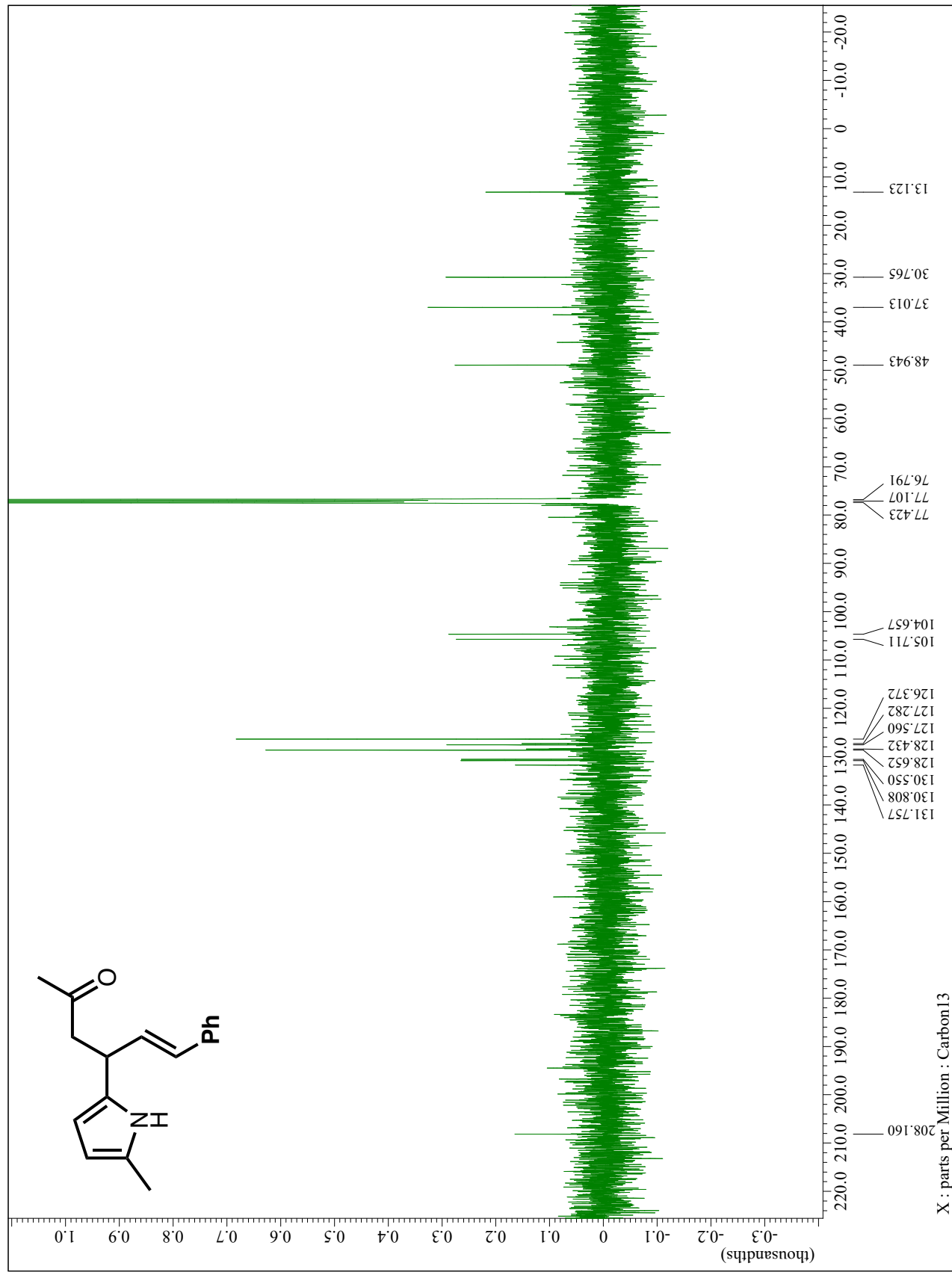
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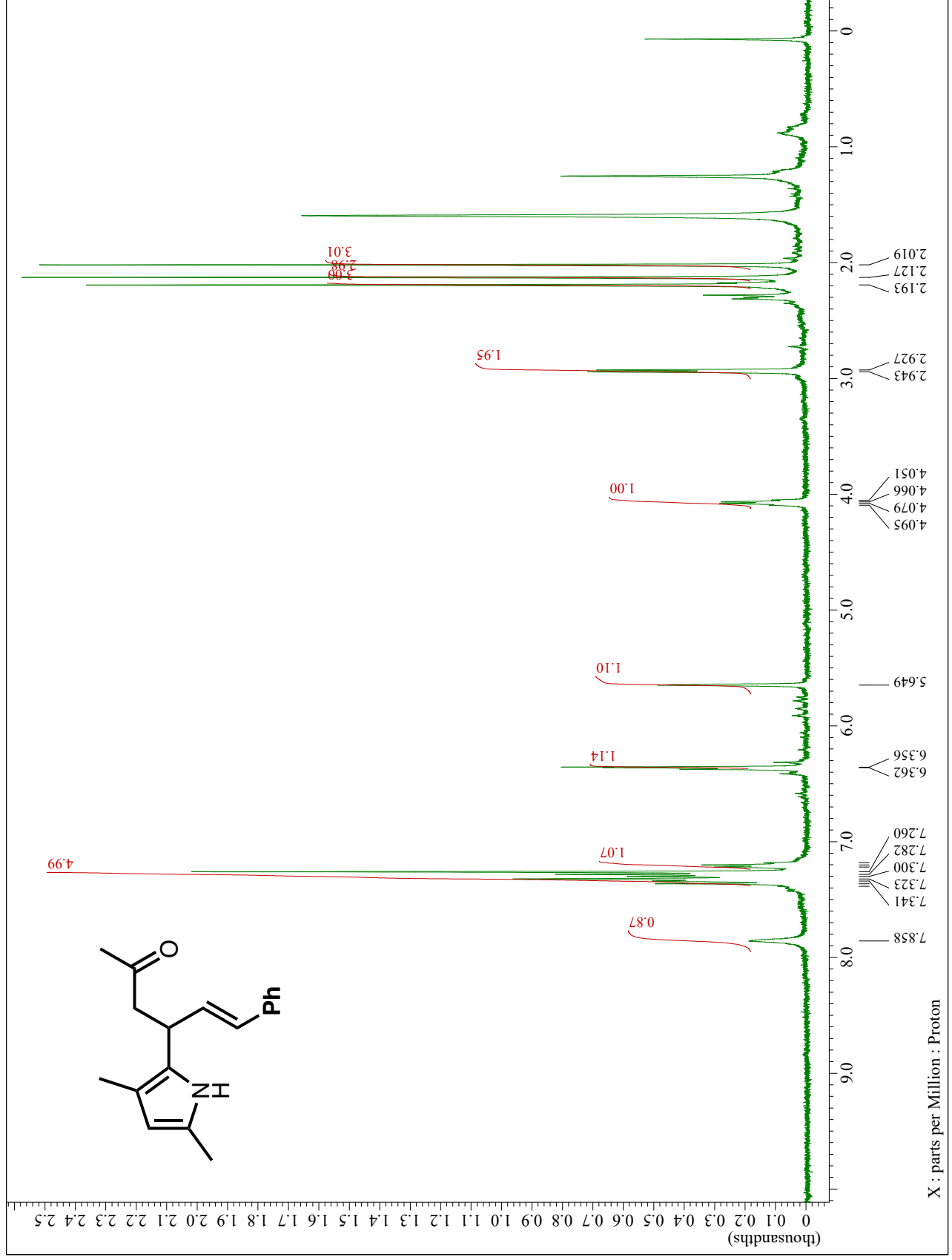
Derived from: AEB-IV-169 PROTON-2-1.jdf

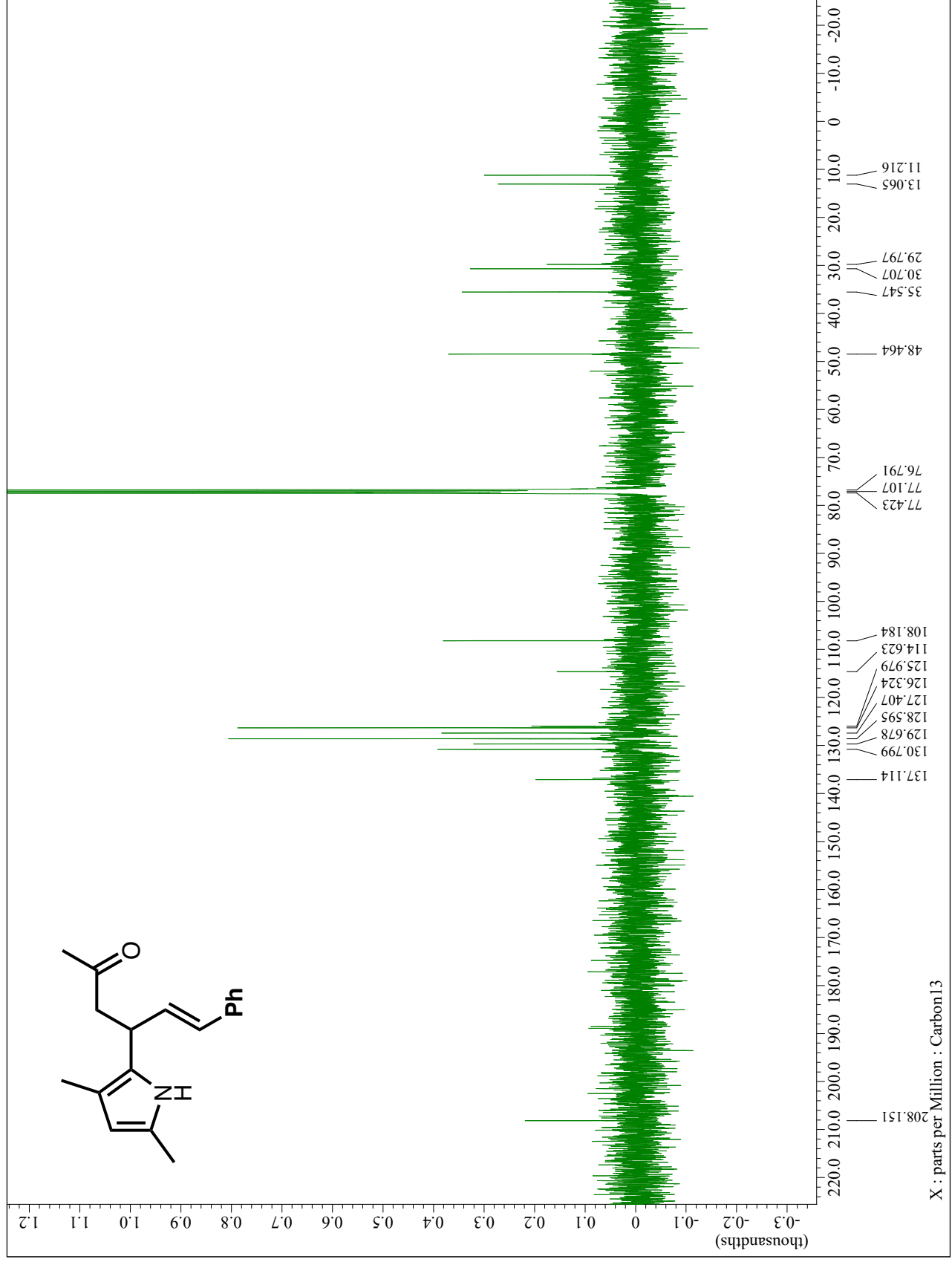
Filename	= AEB-IV-169_PROTON-2-2.13d
Author	= May
Experiment	= proton_jxp
Sample_Id	= AEB-IV-169
Solvent	= CHLOROFORM-D
Creation_Time	= 8-OCT-2020 13:06:21
Revision_Time	= 8-OCT-2020 13:14:46
Current_Time	= 8-OCT-2020 13:15:16
Data_Format	= 1D_COMPLEX
Dim_Size	= 13107
Dim_Title	= Proton
Dim_Units	= [ppm]
Dimensions	= X
Site	= SERC500
Spectrometer	= DELTA2_NMR
Field Strength	= 11.7441[T] (500 [MHz])
X Acq Duration	= 1.74587904[s]
X Domain	= 1H
X Freq	= 500.02120543 [MHz]
X_Offset	= 5 [ppm]
X Points	= 16384
X Prescans	= 1
X Resolution	= 0.572777737 [Hz]
X Sweep	= 9.38438438 [kHz]
X Sweep_Clippped	= 7.50750751 [kHz]
Irr Domain	= Proton
Irr Freq	= 500.02120543 [MHz]
Irr Offset	= 5 [ppm]
Tri Domain	= Proton
Tri Freq	= 500.02120543 [MHz]
Tri_Offset	= 5 [ppm]
Clipped	= FALSE
Scans	= 16
Total Scans	= 16
Relaxation_Delay	= 4[s]
Recvr Gain	= 46
Temp Get	= 18.8 [dC]
X 90_Width	= 12.4 [us]
X Acq Time	= 1.74587904[s]
X_Angle	= 45 [deg]
X_Atn	= 3 [dB]
X_Pulse	= 6.2 [us]
Irr Mode	= Off
Tri Mode	= Off
Dante Presat	= FALSE
Initial Wait	= 1[s]

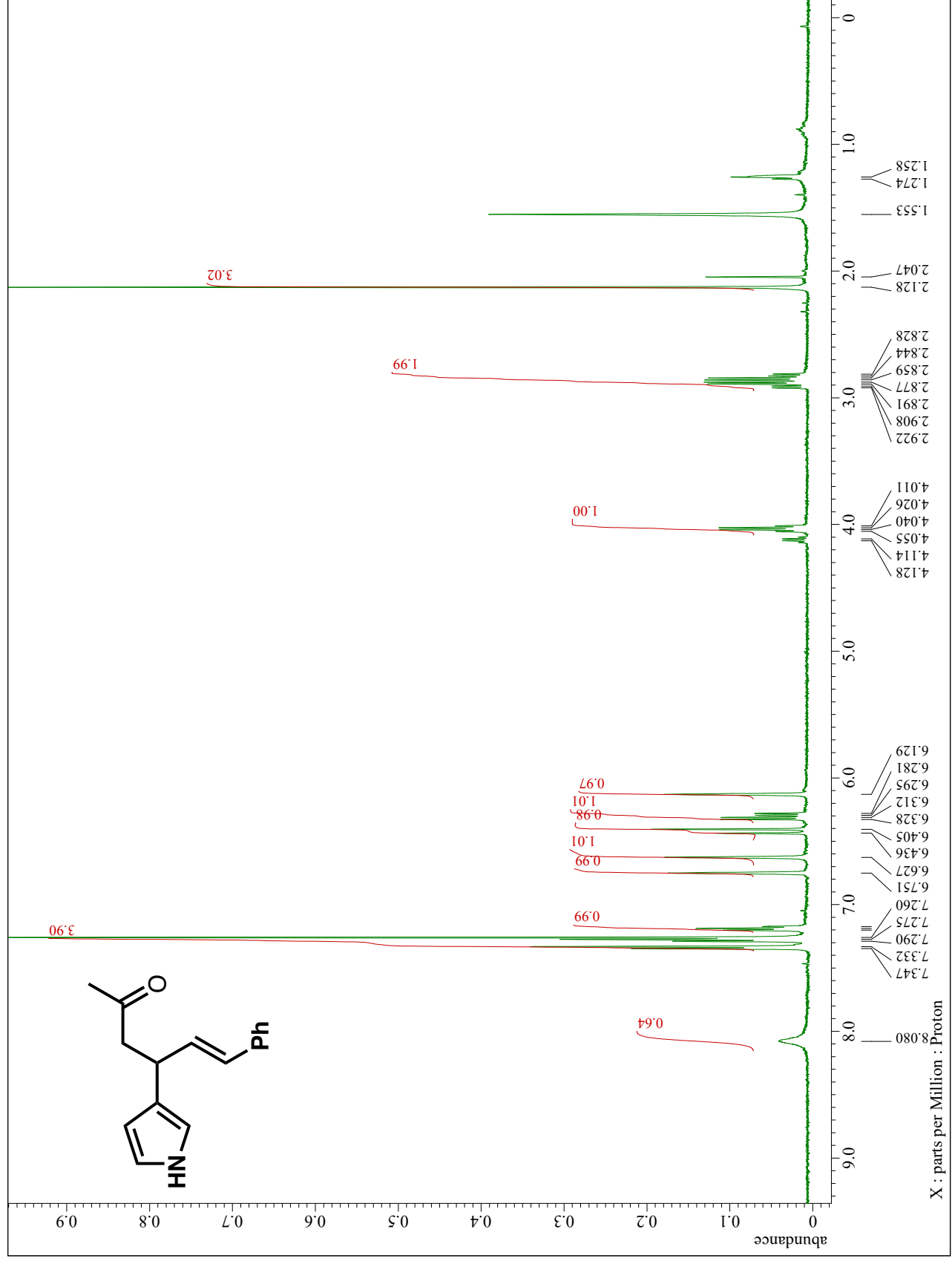


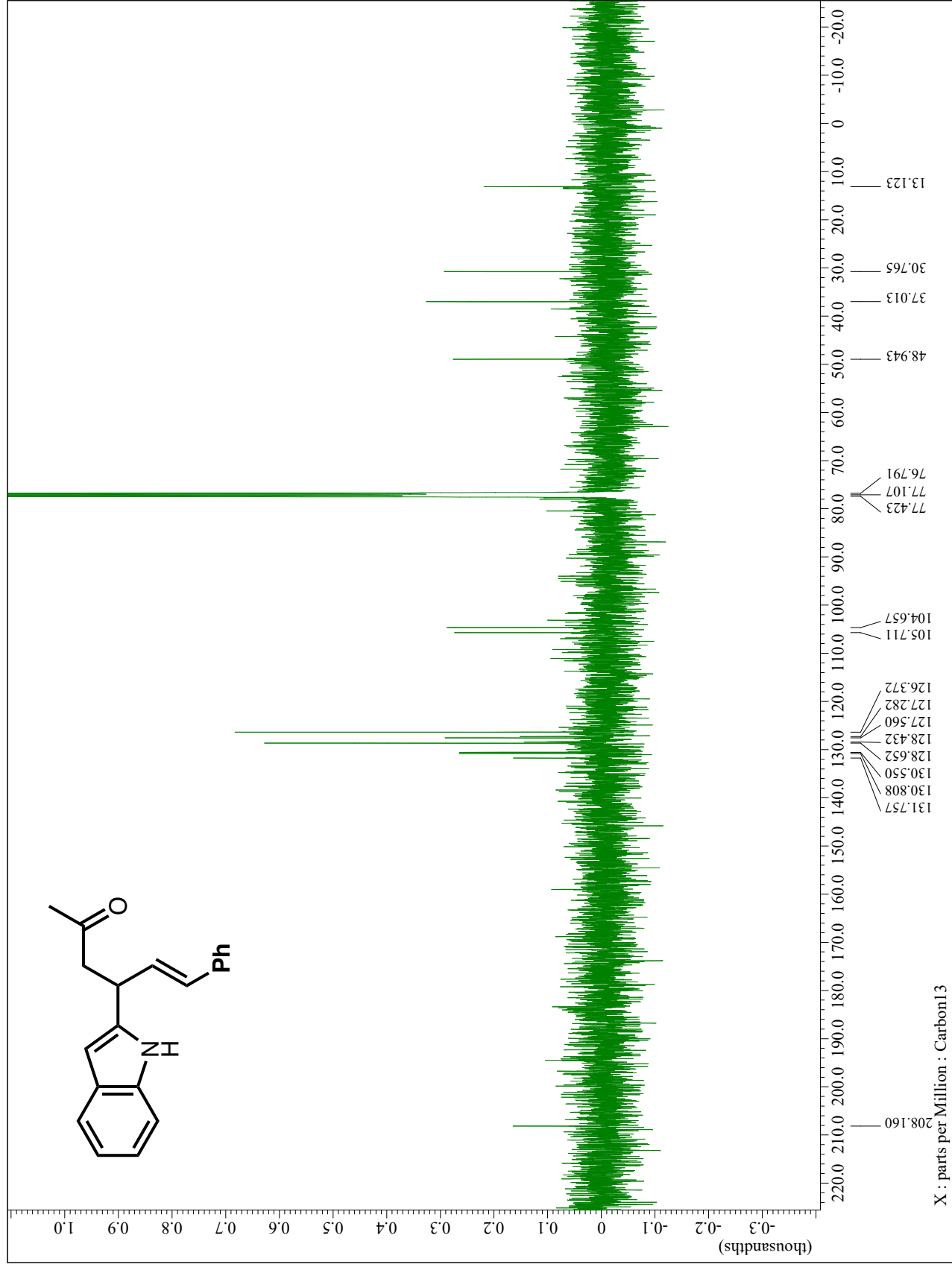


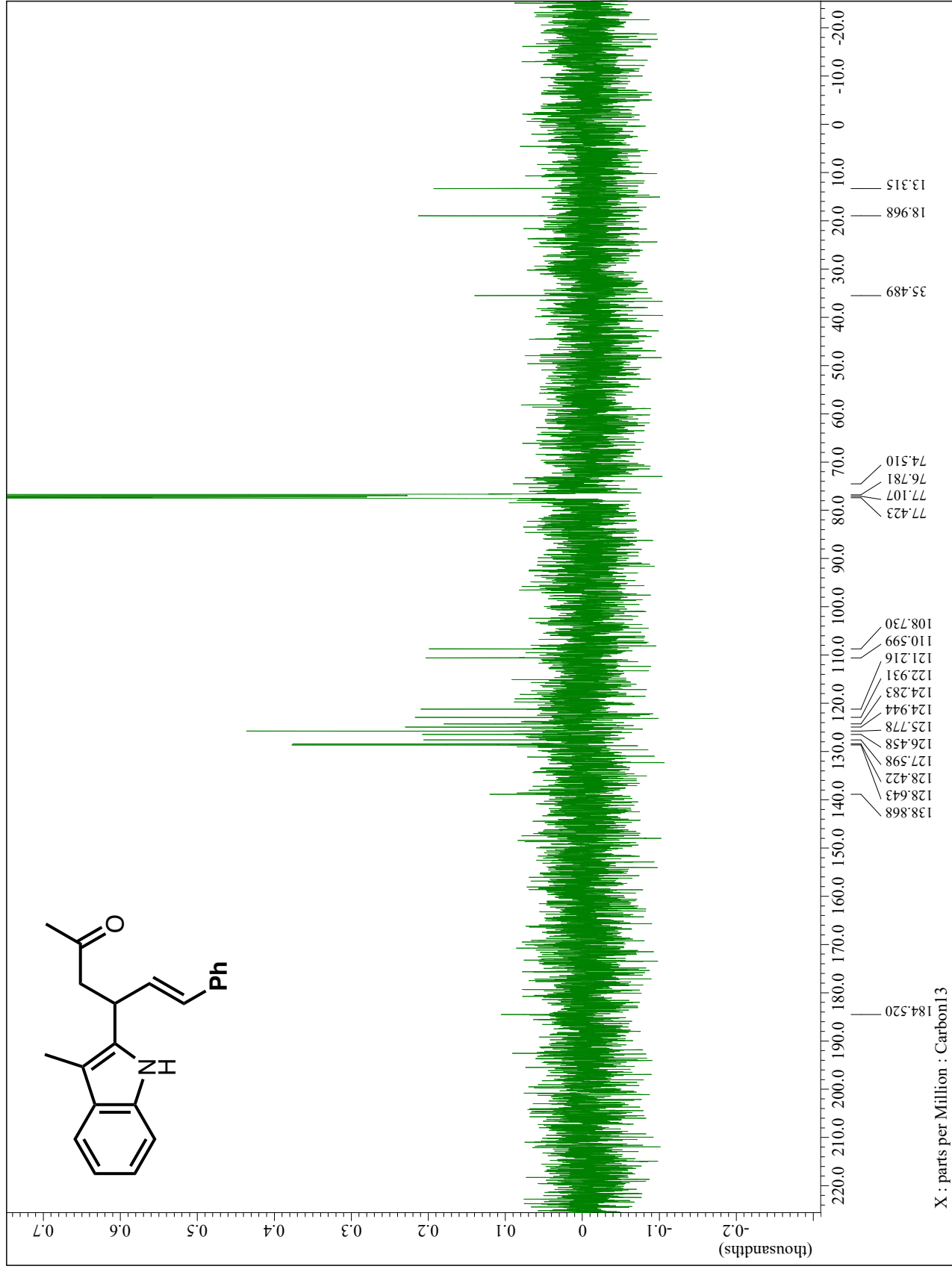


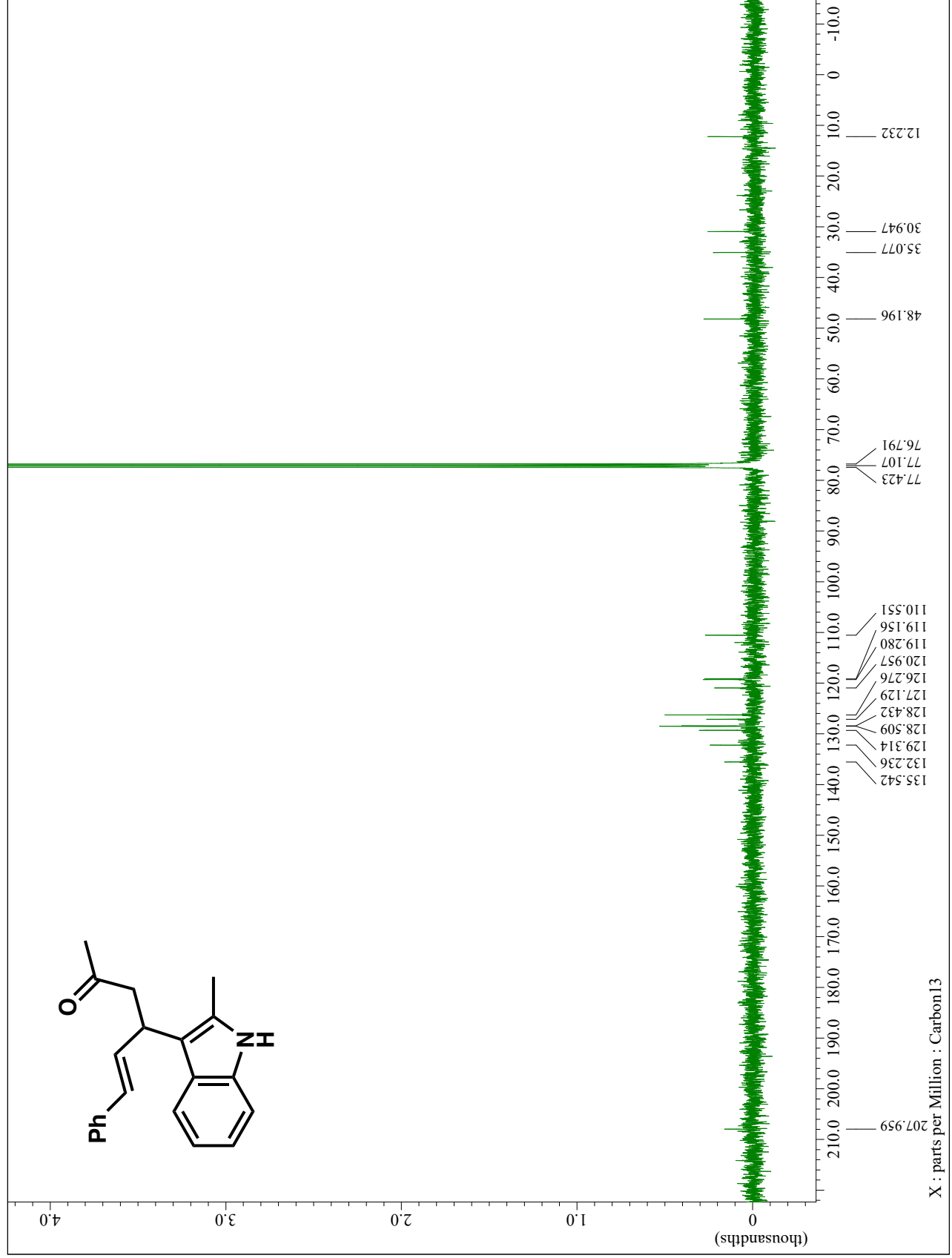


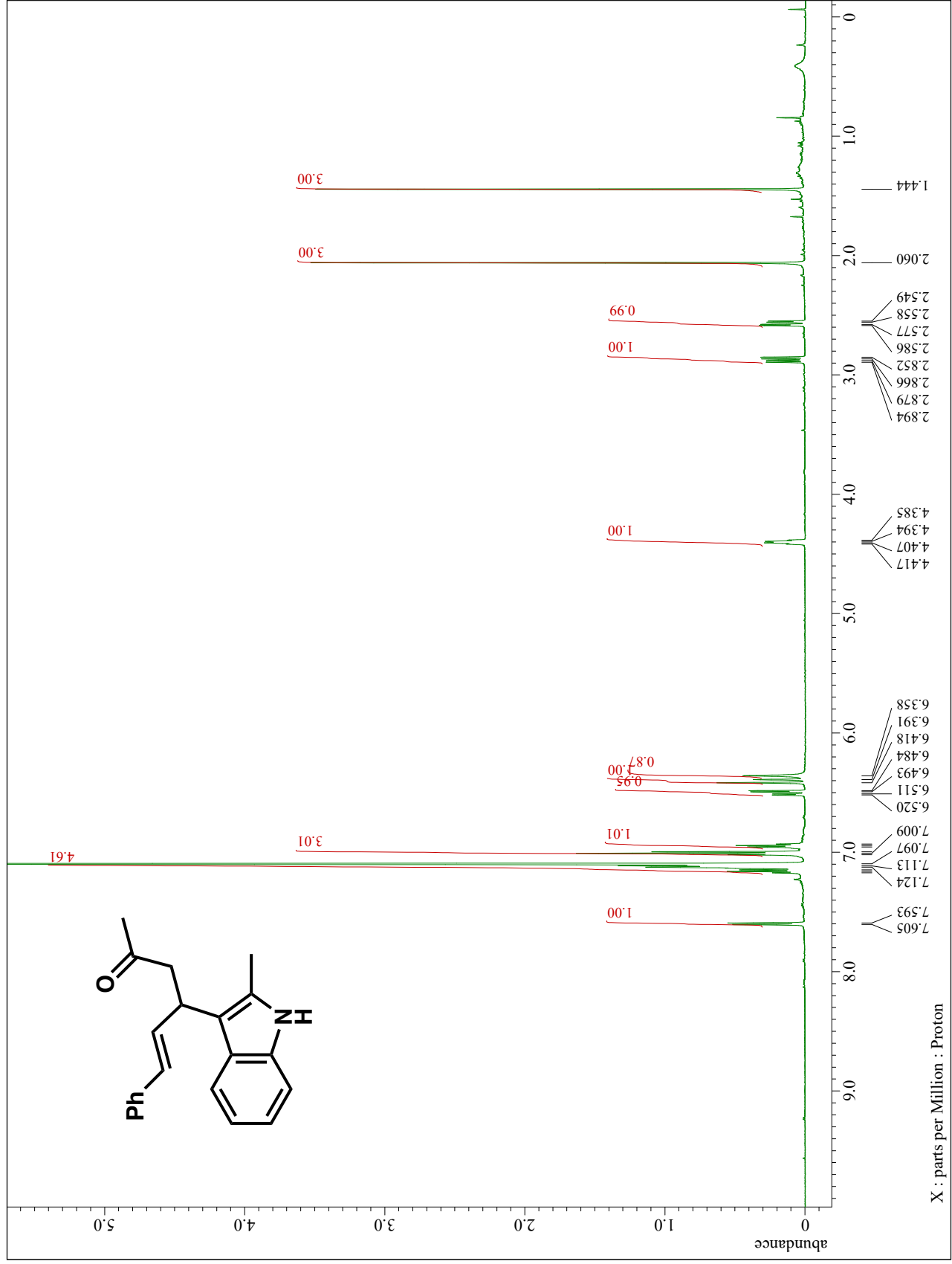


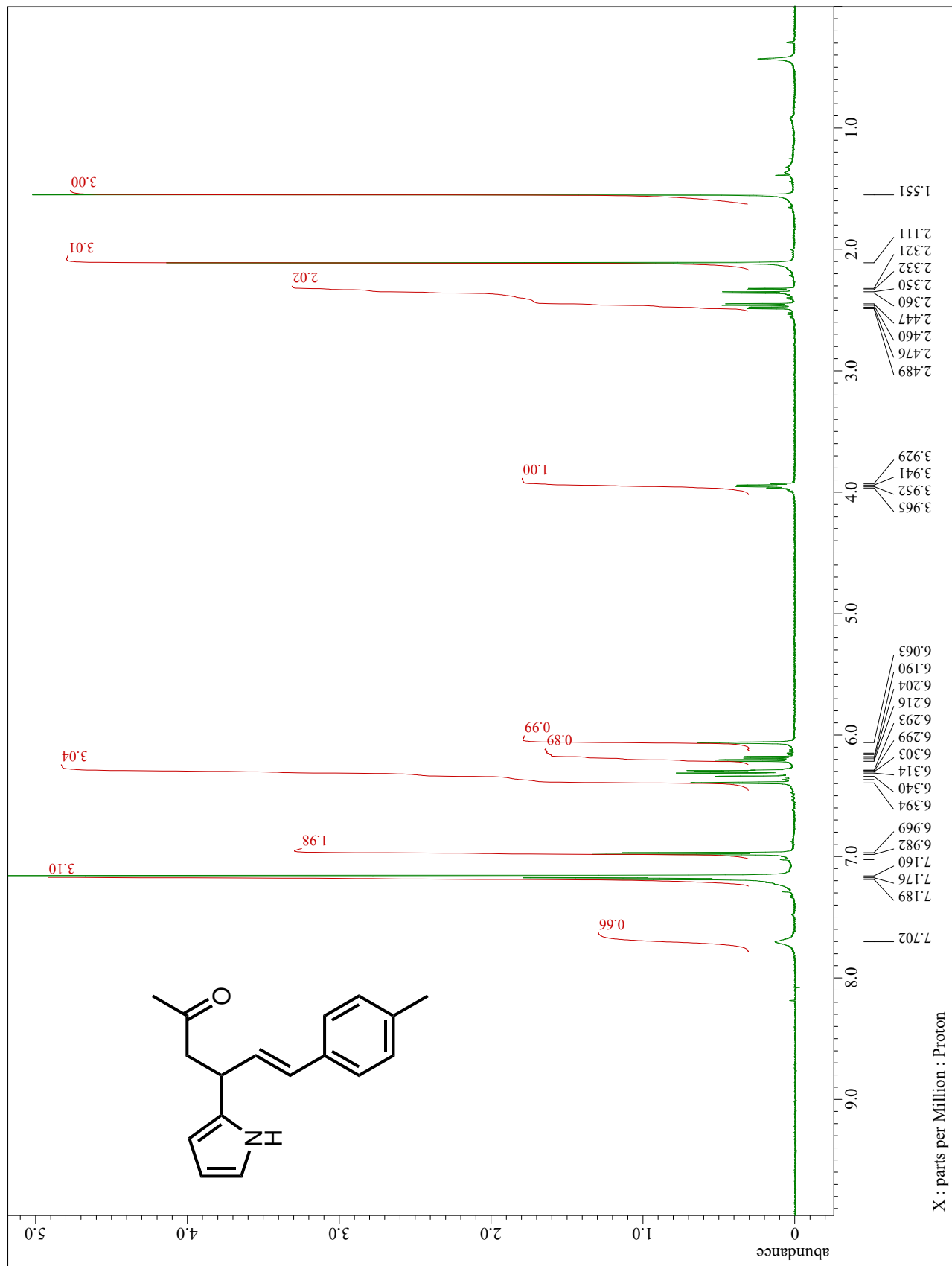


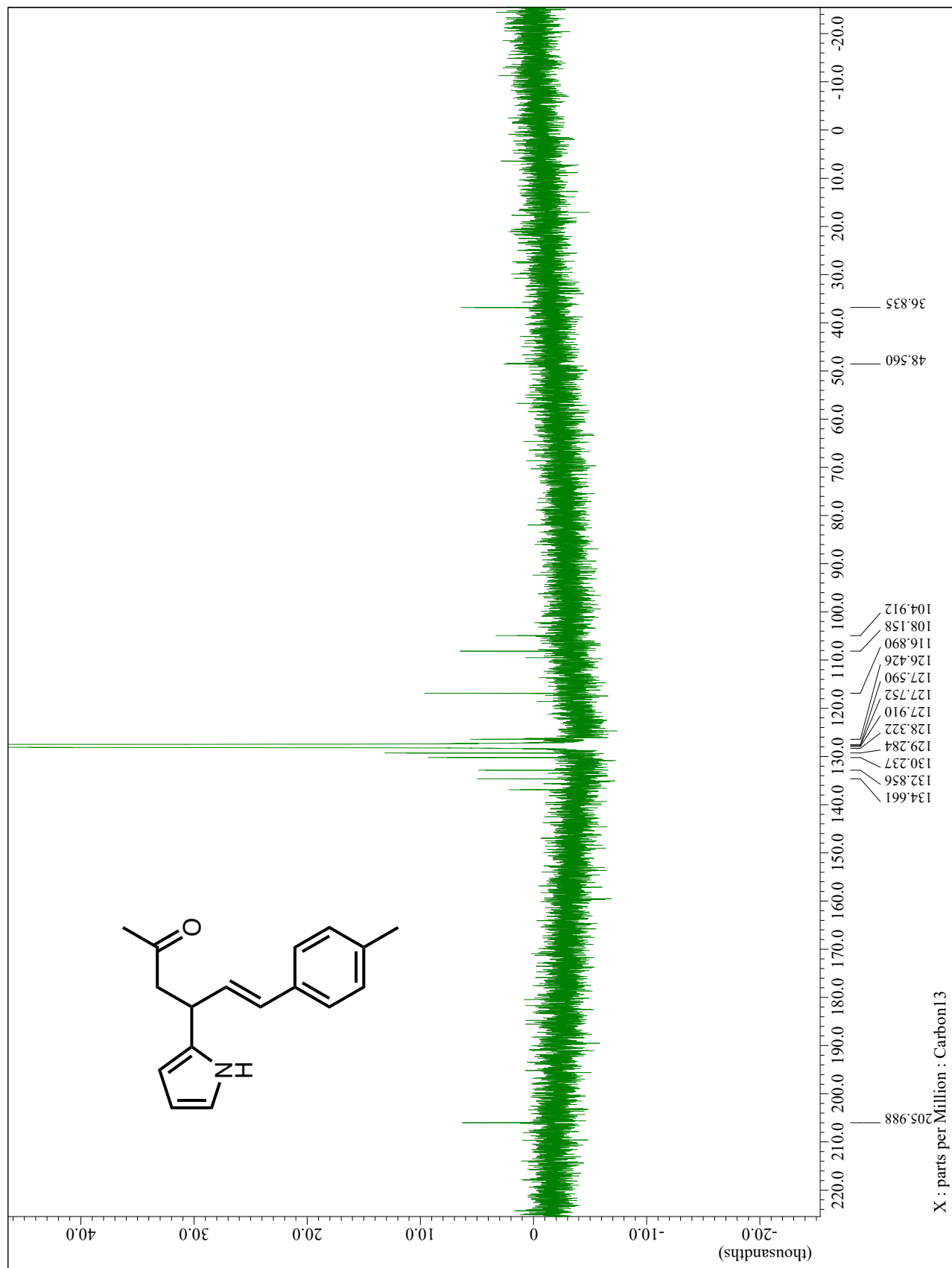


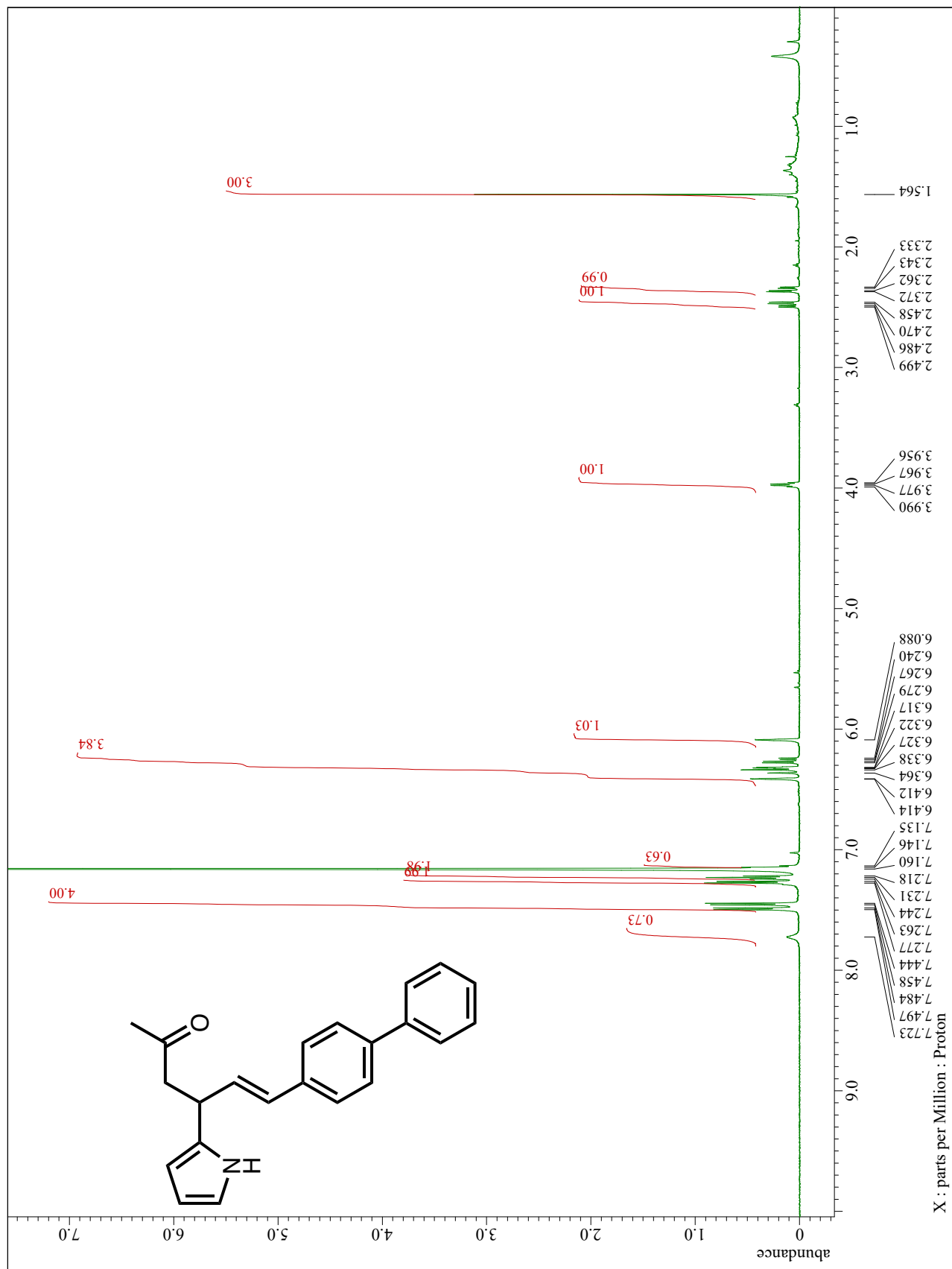


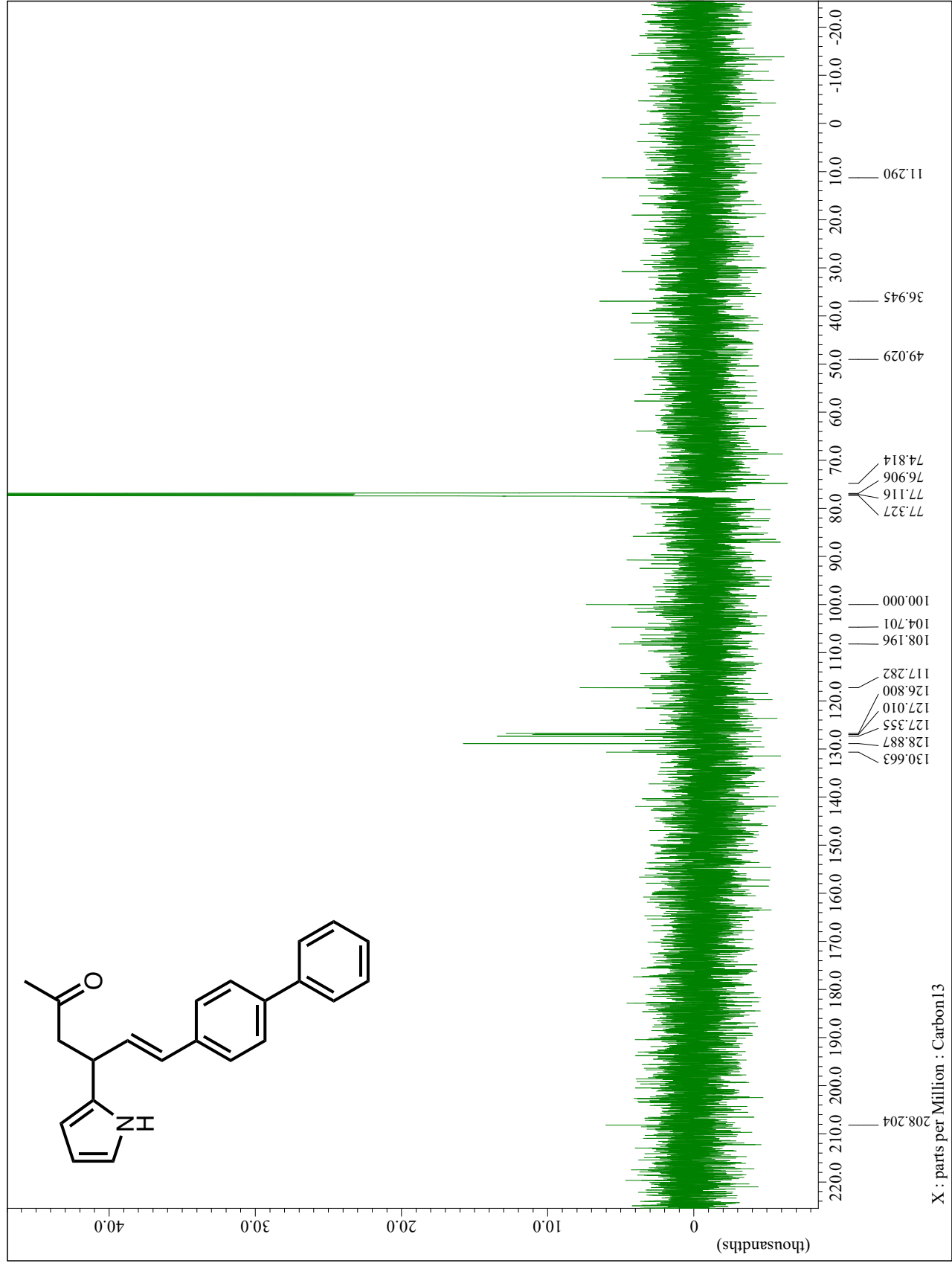


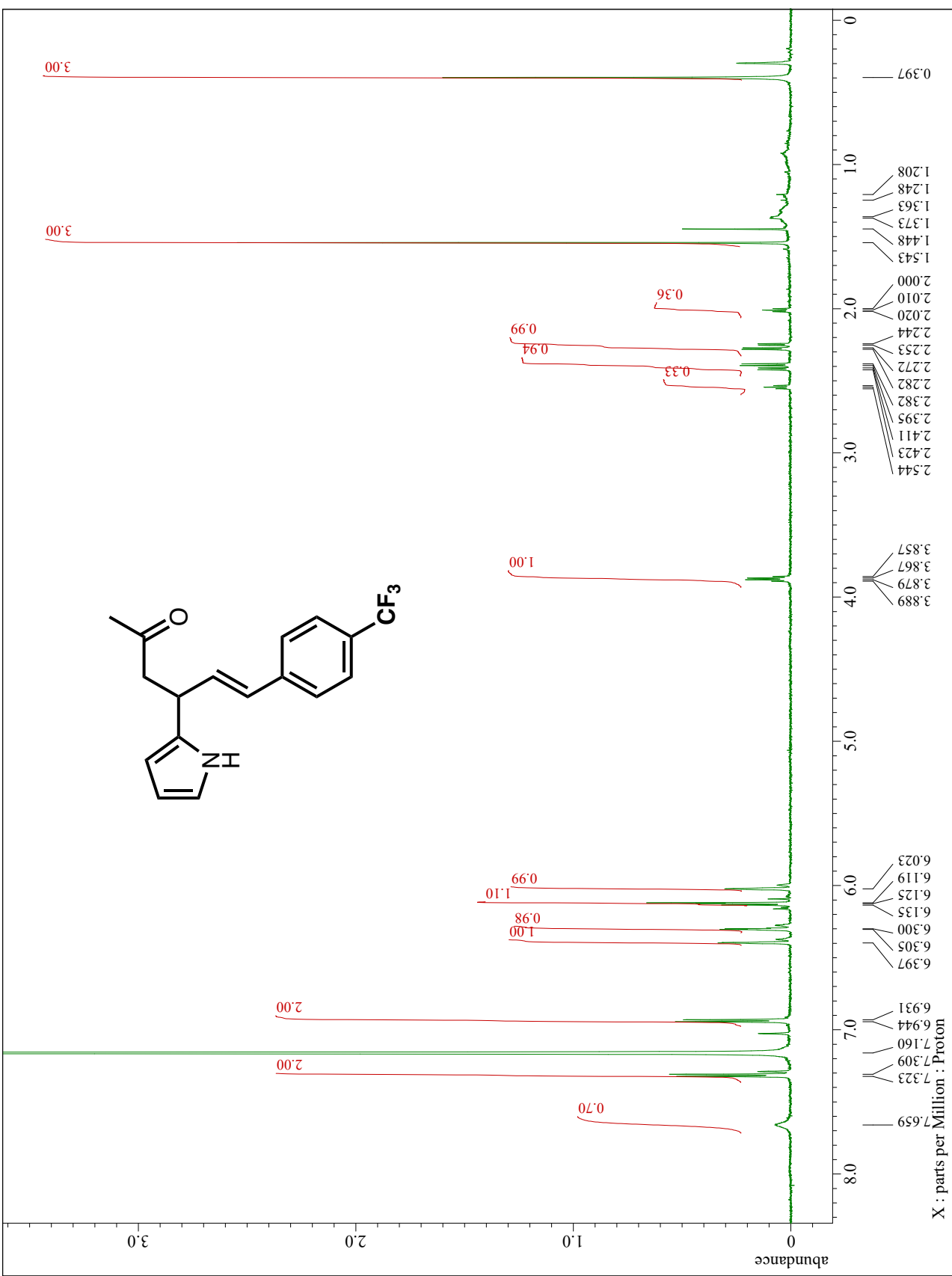


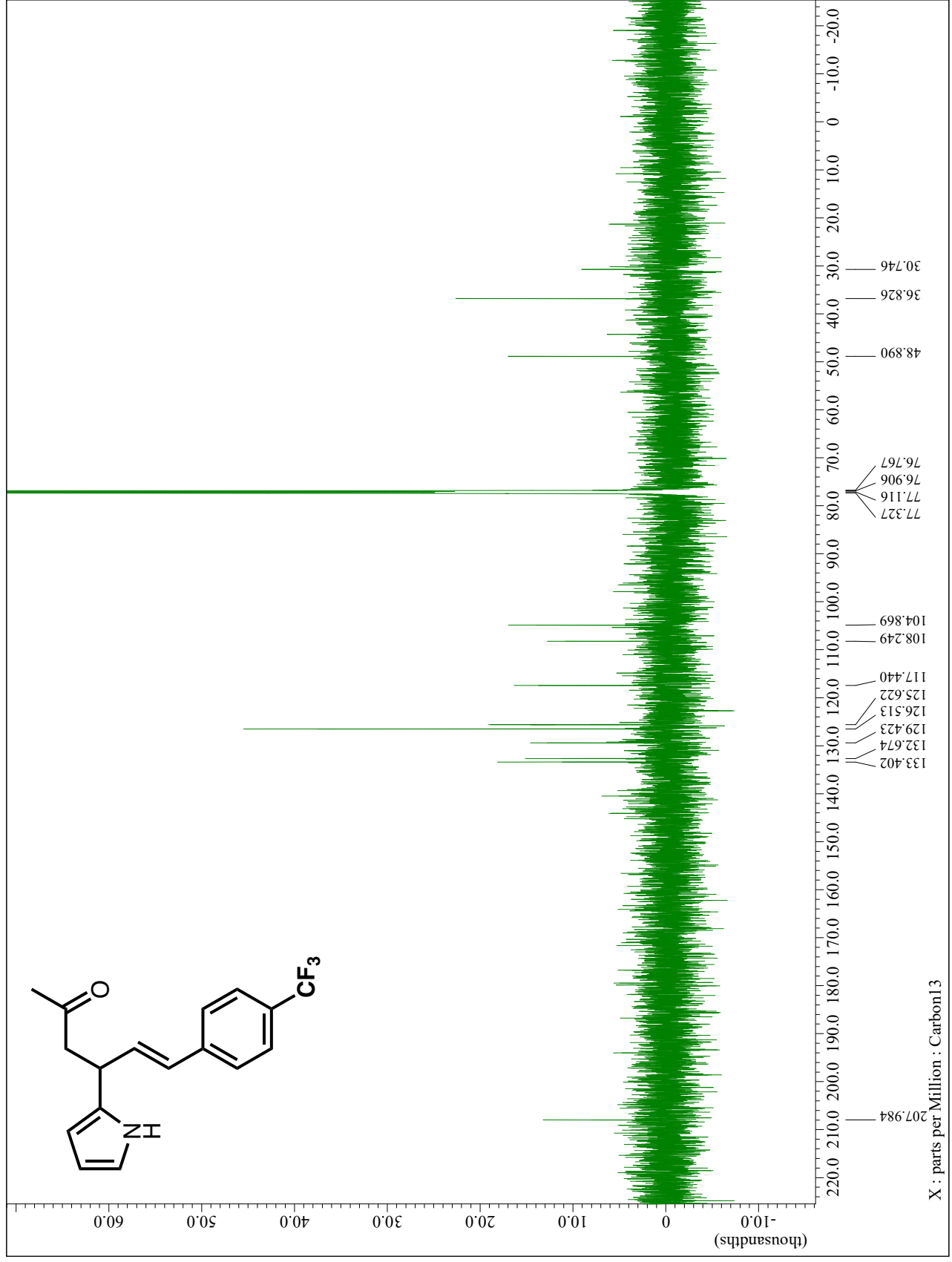


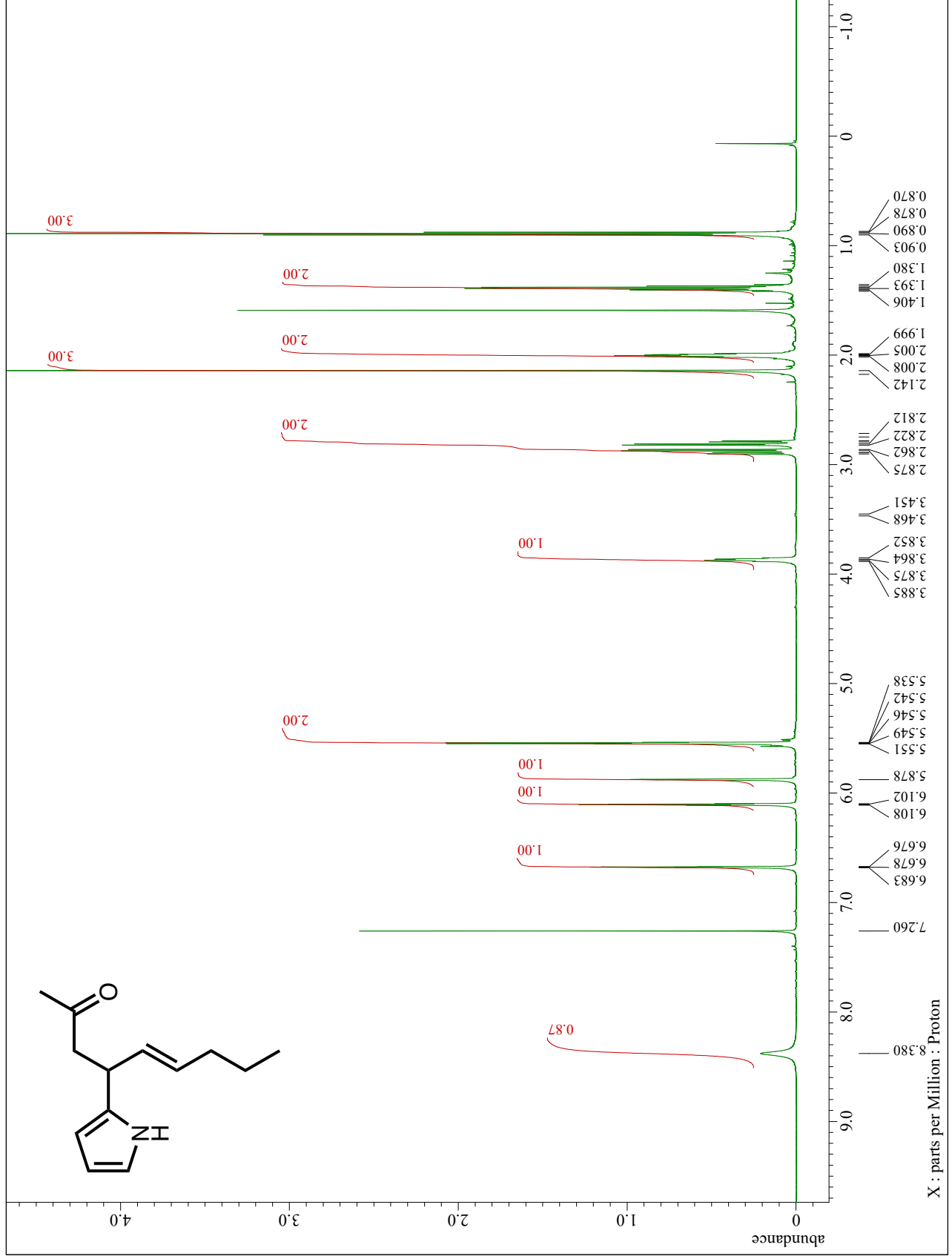


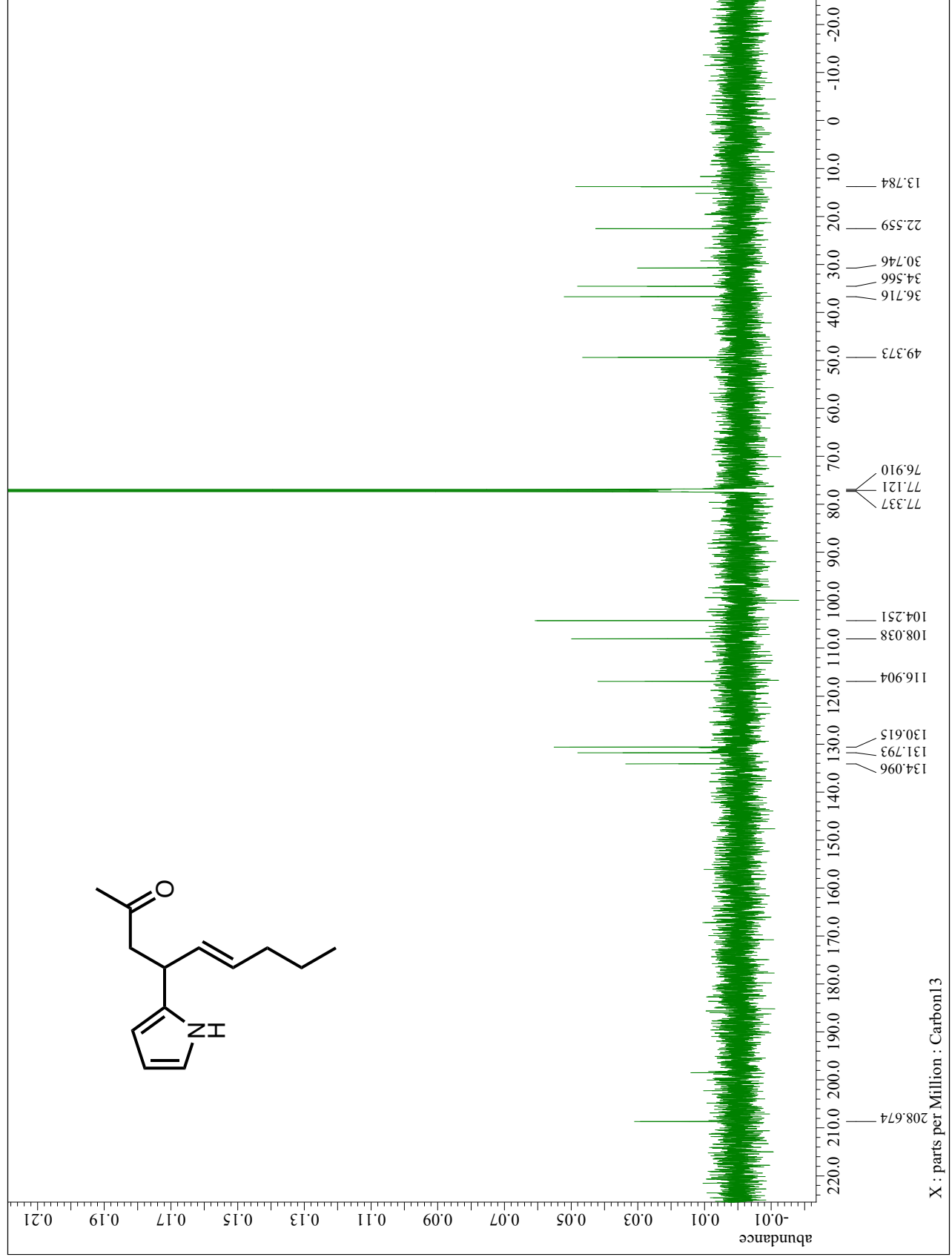










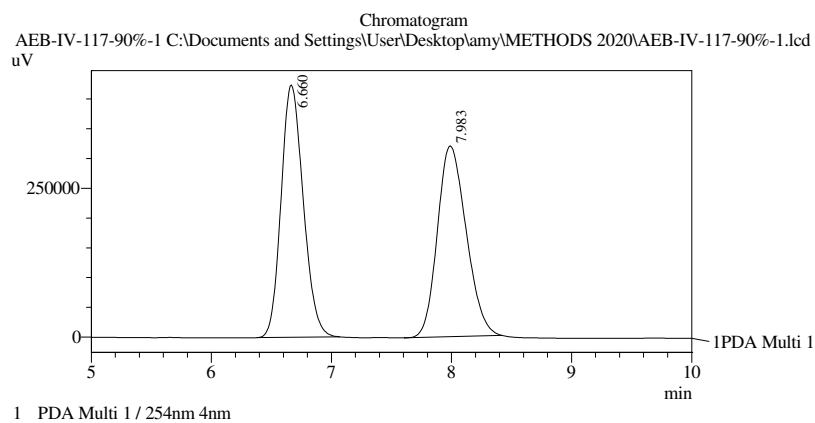


==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-117-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-117-90%-1
Sample ID : AEB-IV-117-90%-1
Tray# : 1
Vial # : 21
Injection Volume : 10 uL
Data File Name : AEB-IV-117-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 7/27/2020 11:10:11 PM
Data Processed : 7/27/2020 11:20:13 PM

<Chromatogram>



PeakTable

PDA Ch1 254nm 4nm

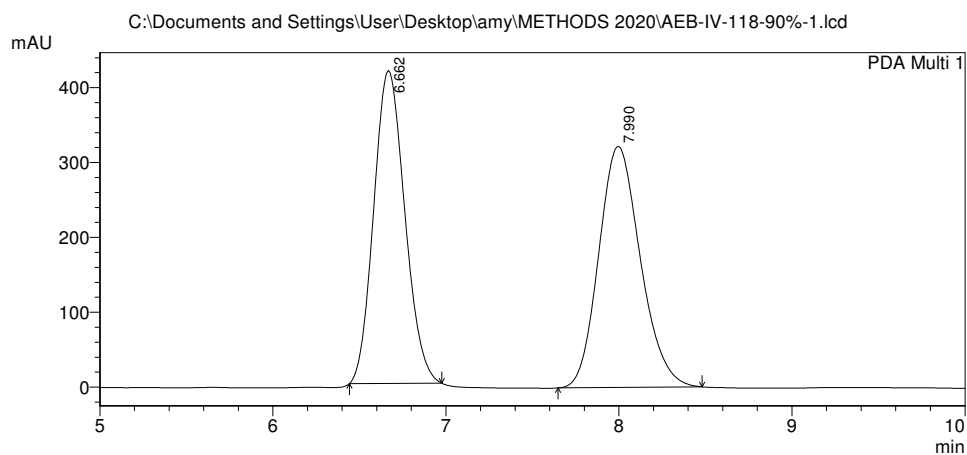
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.660	5441985	424203	50.457	56.947
2	7.983	5343393	320699	49.543	43.053
Total		10785378	744902	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-118-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-118-90%-1
Sample ID : AEB-IV-118-90%-1
Tray# : 1
Vial # : 22
Injection Volume : 10 uL
Data File Name : AEB-IV-118-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 7/27/2020 11:30:48 PM
Data Processed : 7/27/2020 11:40:50 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

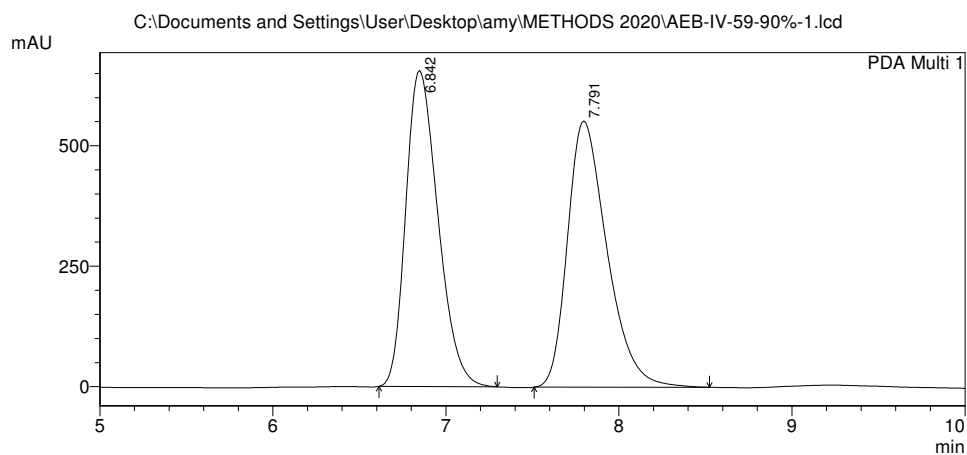
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.662	5226896	418077	49.293	56.486
2	7.990	5376940	322061	50.707	43.514
Total		10603836	740138	100.000	100.000

==== Shimadzu LcSolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-59-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-59-90%-1
Sample ID : AEB-IV-59-90%-1
Tray# : 1
Vial # : 14
Injection Volume : 10 uL
Data File Name : AEB-IV-59-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
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Data Processed : 7/27/2020 12:59:48 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

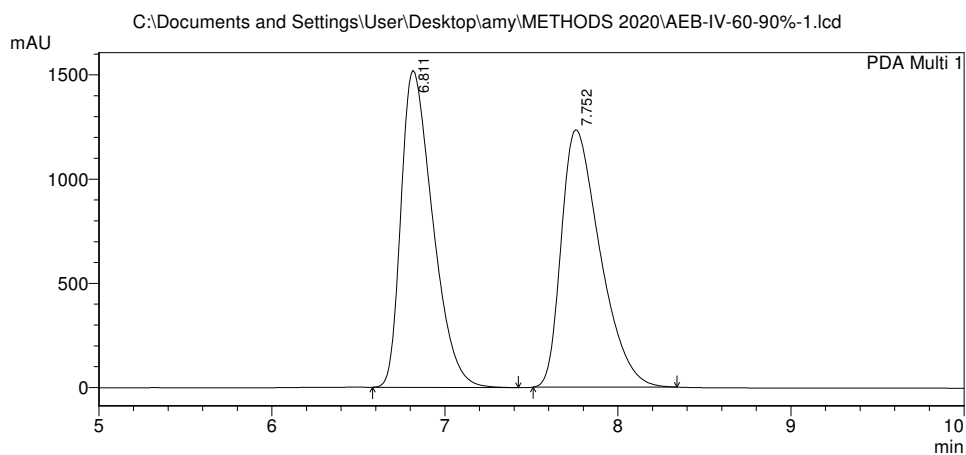
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.842	8479150	656107	49.145	54.267
2	7.791	8774148	552924	50.855	45.733
Total		17253298	1209031	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-60-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-60-90%-1
 Sample ID : AEB-IV-60-90%-1
 Tray# : 1
 Vial # : 1
 Injection Volume : 10 uL
 Data File Name : AEB-IV-60-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
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<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

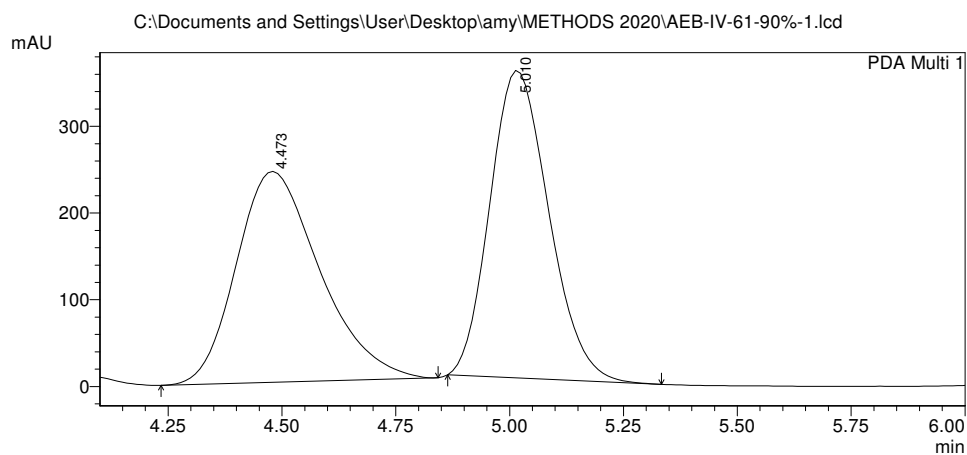
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.811	19357445	1520254	50.132	55.174
2	7.752	19255273	1235117	49.868	44.826
Total		38612718	2755371	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-61-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-61-90%-1
 Sample ID : AEB-IV-61-90%-1
 Tray# : 1
 Vial # : 2
 Injection Volume : 10 uL
 Data File Name : AEB-IV-61-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
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 Data Processed : 7/27/2020 4:48:27 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

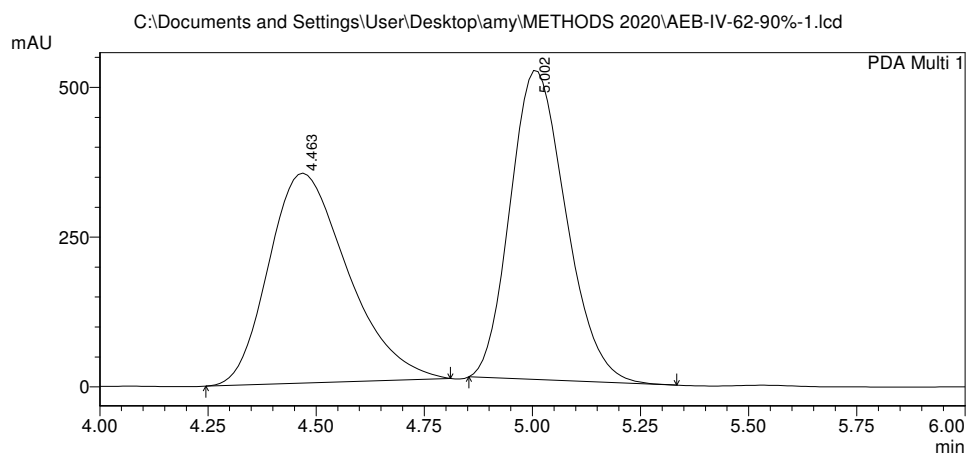
PeakTable

PDA Ch1 254nm 4nm					
Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.473	3100916	243201	49.337	40.708
2	5.010	3184250	354228	50.663	59.292
Total		6285165	597429	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-62-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-62-90%-1
 Sample ID : AEB-IV-62-90%-1
 Tray# : 1
 Vial # : 3
 Injection Volume : 10 uL
 Data File Name : AEB-IV-62-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
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 Data Processed : 7/27/2020 5:09:06 PM

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1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

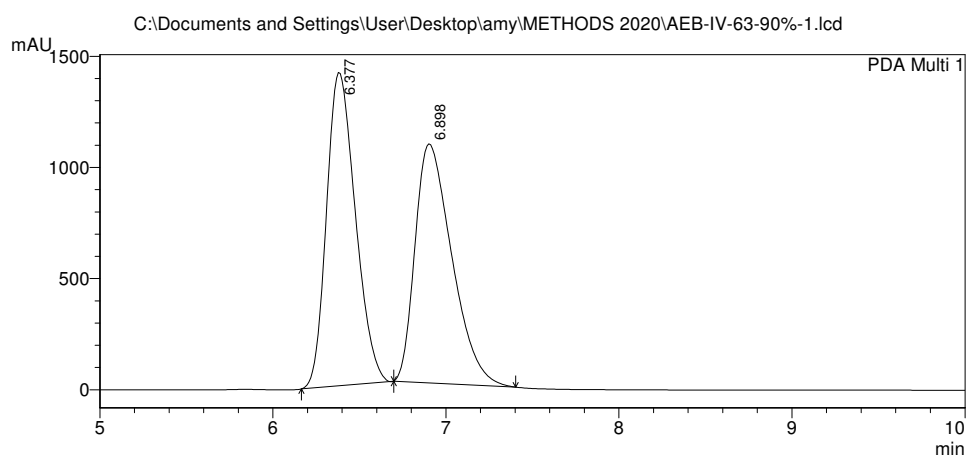
Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.463	4456961	350492	49.081	40.462
2	5.002	4623820	515740	50.919	59.538
Total		9080781	866232	100.000	100.000

==== Shimadzu LcSolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-63-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-63-90%-1
Sample ID : AEB-IV-63-90%-1
Tray# : 1
Vial # : 4
Injection Volume : 10 uL
Data File Name : AEB-IV-63-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
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Data Processed : 7/27/2020 5:29:42 PM

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1 PDA Multi 1/254nm 4nm

PeakTable

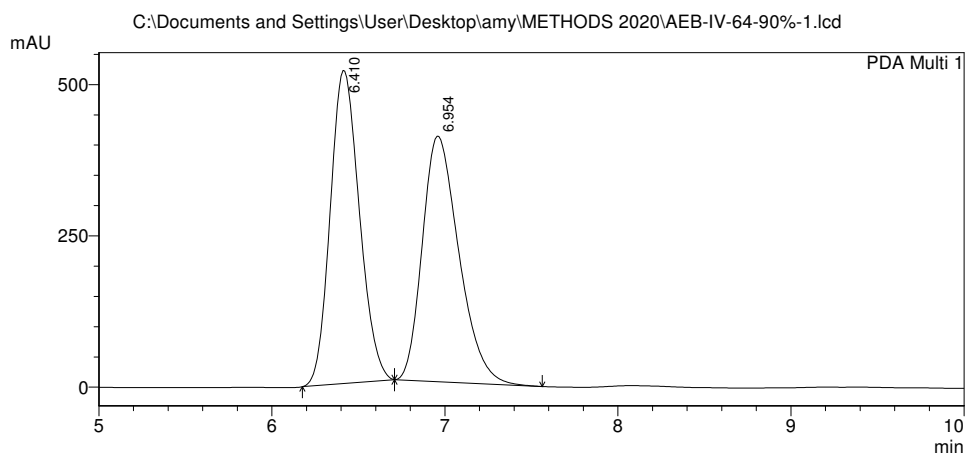
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.377	16303407	1409539	50.678	56.723
2	6.898	15866906	1075393	49.322	43.277
Total		32170313	2484931	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-64-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-64-90%-1
 Sample ID : AEB-IV-64-90%-1
 Tray# : 1
 Vial # : 5
 Injection Volume : 10 uL
 Data File Name : AEB-IV-64-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 5:40:19 PM
 Data Processed : 7/27/2020 5:50:21 PM

<Chromatogram>



PeakTable

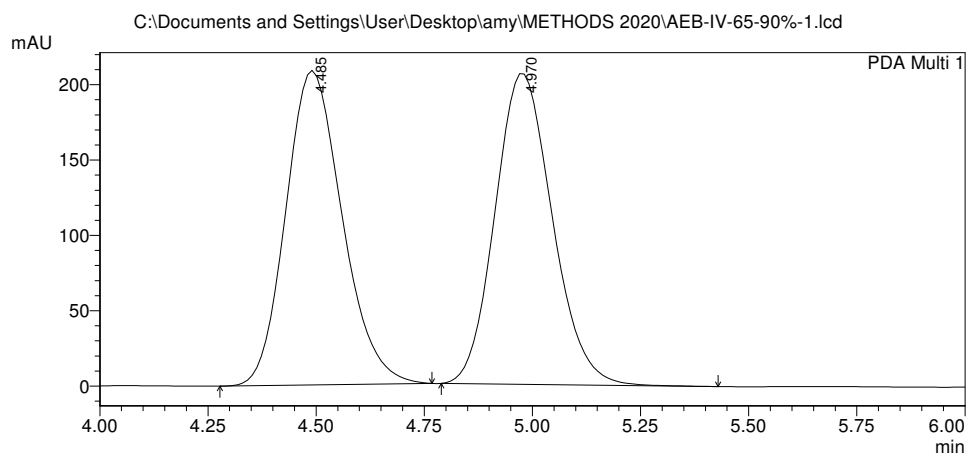
PDA Ch1 254nm 4nm					
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.410	6058018	517514	50.445	56.059
2	6.954	5951202	405650	49.555	43.941
Total		12009220	923164	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-65-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-65-90%-1
 Sample ID : AEB-IV-65-90%-1
 Tray# : 1
 Vial # : 6
 Injection Volume : 10 uL
 Data File Name : AEB-IV-65-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 6:00:55 PM
 Data Processed : 7/27/2020 6:10:58 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

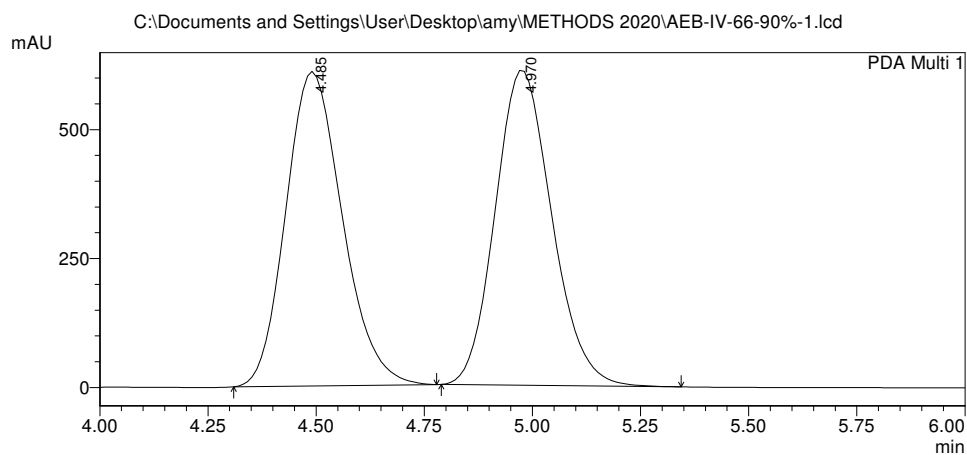
Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.485	1891448	208811	49.935	50.317
2	4.970	1896363	206184	50.065	49.683
Total		3787810	414995	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-66-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-66-90%-1
 Sample ID : AEB-IV-66-90%-1
 Tray# : 1
 Vial # : 7
 Injection Volume : 10 uL
 Data File Name : AEB-IV-66-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
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<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

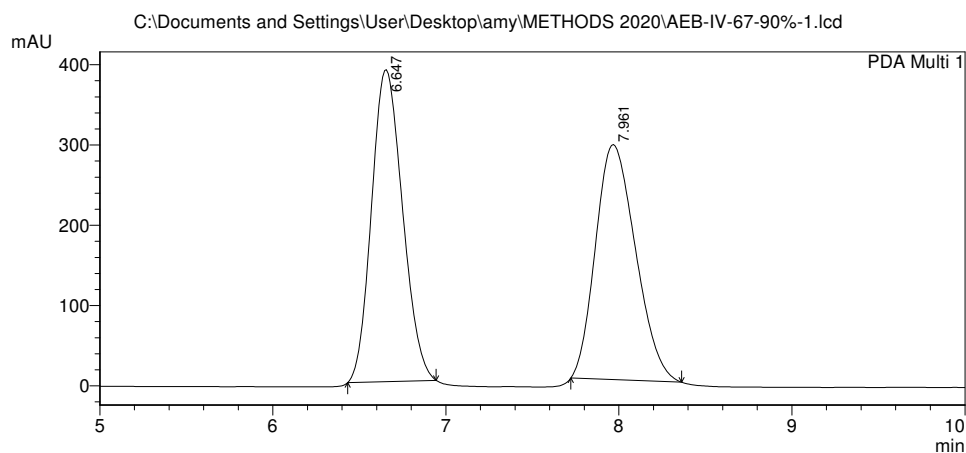
Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.485	5544195	609680	49.930	49.975
2	4.970	5559825	610285	50.070	50.025
Total		11104020	1219965	100.000	100.000

==== Shimadzu LcSolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-67-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-67-90%-1
Sample ID : AEB-IV-67-90%-1
Tray# : 1
Vial # : 8
Injection Volume : 10 uL
Data File Name : AEB-IV-67-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 7/27/2020 6:42:08 PM
Data Processed : 7/27/2020 6:52:11 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

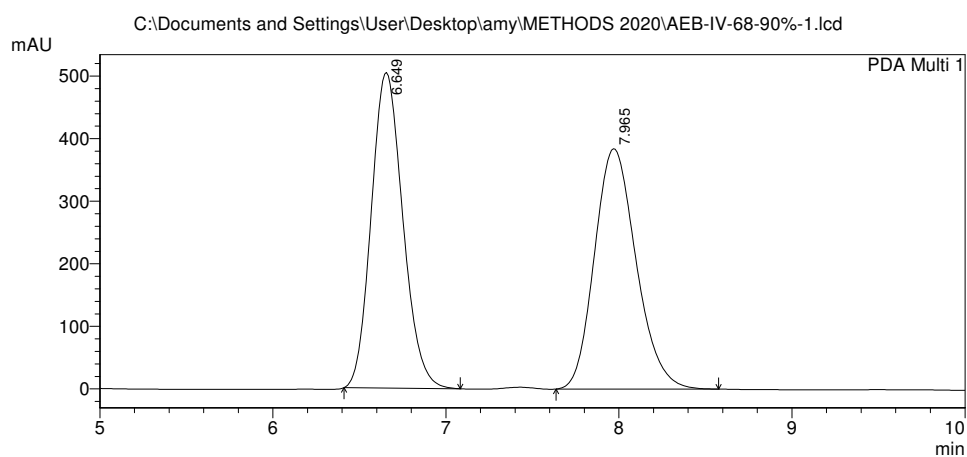
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.647	4847730	388665	50.777	57.034
2	7.961	4699288	292791	49.223	42.966
Total		9547019	681456	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-68-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-68-90%-1
 Sample ID : AEB-IV-68-90%-1
 Tray# : 1
 Vial # : 9
 Injection Volume : 10 uL
 Data File Name : AEB-IV-68-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 7:02:45 PM
 Data Processed : 7/27/2020 7:12:47 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

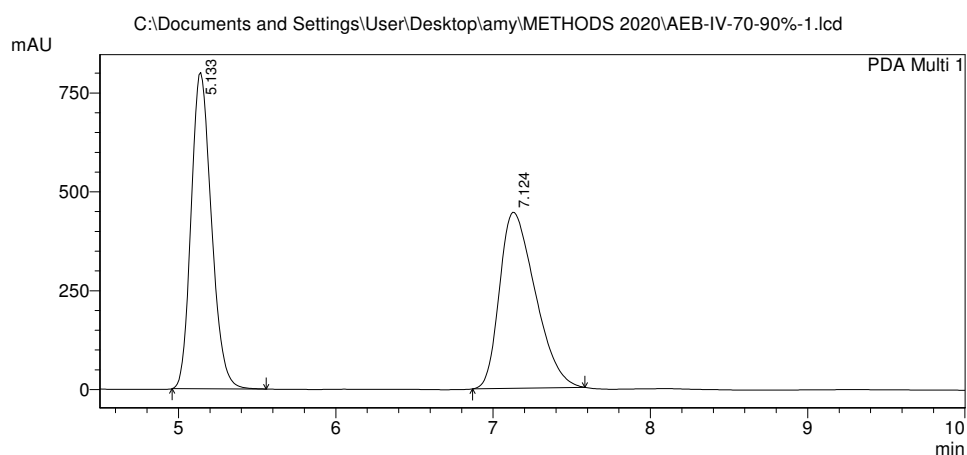
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.649	6409803	504382	49.952	56.760
2	7.965	6422037	384241	50.048	43.240
Total		12831840	888623	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-70-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-70-90%-1
 Sample ID : AEB-IV-70-90%-1
 Tray# : 1
 Vial # : 10
 Injection Volume : 10 uL
 Data File Name : AEB-IV-70-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 7:23:24 PM
 Data Processed : 7/27/2020 7:33:25 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

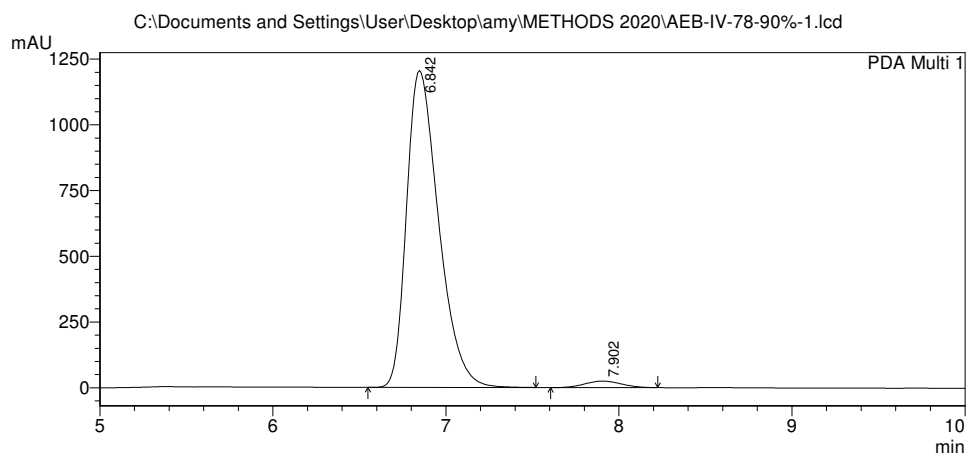
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	5.133	7172623	799808	50.511	64.225
2	7.124	7027607	445506	49.489	35.775
Total		14200230	1245314	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-78-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-78-90%-1
 Sample ID : AEB-IV-78-90%-1
 Tray# : 1
 Vial # : 11
 Injection Volume : 10 uL
 Data File Name : AEB-IV-78-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 7:44:01 PM
 Data Processed : 7/27/2020 7:54:03 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

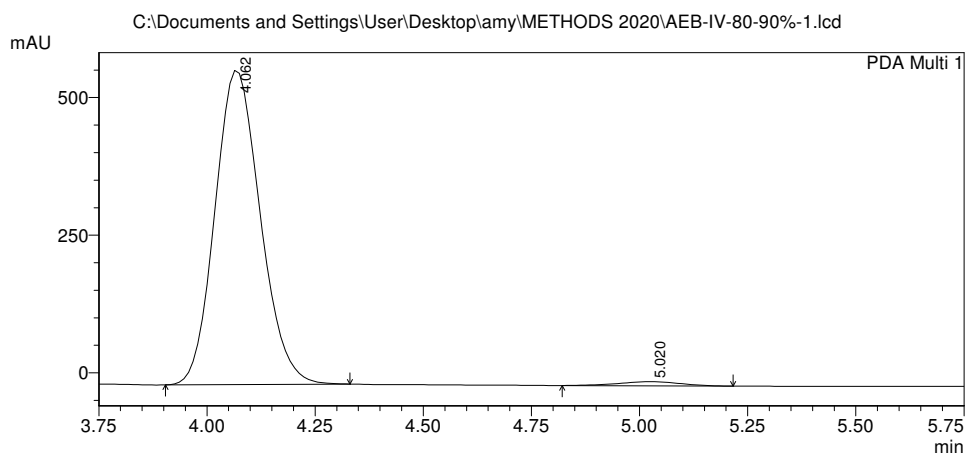
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.842	15529951	1205939	97.688	97.975
2	7.902	367588	24930	2.312	2.025
Total		15897539	1230869	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-80-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-80-90%-1
 Sample ID : AEB-IV-80-90%-1
 Tray# : 1
 Vial # : 12
 Injection Volume : 10 uL
 Data File Name : AEB-IV-80-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 8:04:38 PM
 Data Processed : 7/27/2020 8:14:41 PM

<Chromatogram>



PeakTable

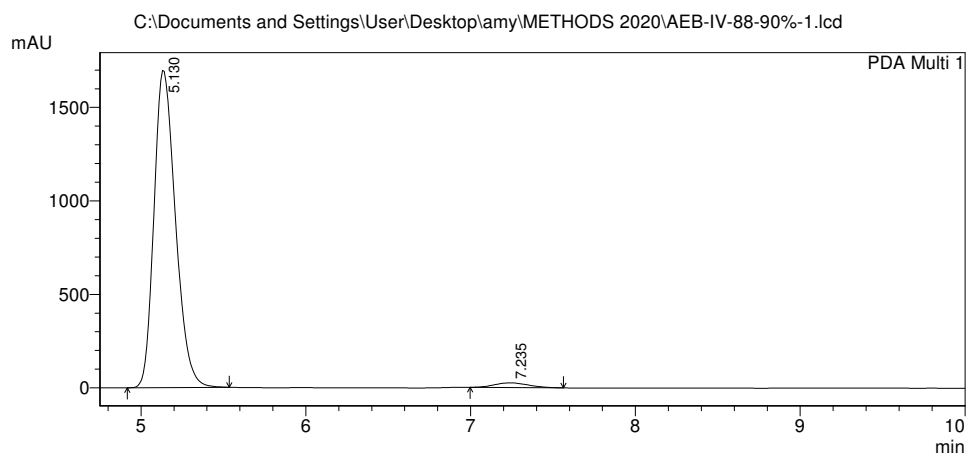
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.062	4157636	570616	98.234	98.676
2	5.020	74744	7655	1.766	1.324
Total		4232380	578272	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-88-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-88-90%-1
 Sample ID : AEB-IV-88-90%-1
 Tray# : 1
 Vial # : 20
 Injection Volume : 10 uL
 Data File Name : AEB-IV-88-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 10:49:34 PM
 Data Processed : 7/27/2020 10:59:37 PM

<Chromatogram>



PDA Ch1 254nm 4nm

PeakTable

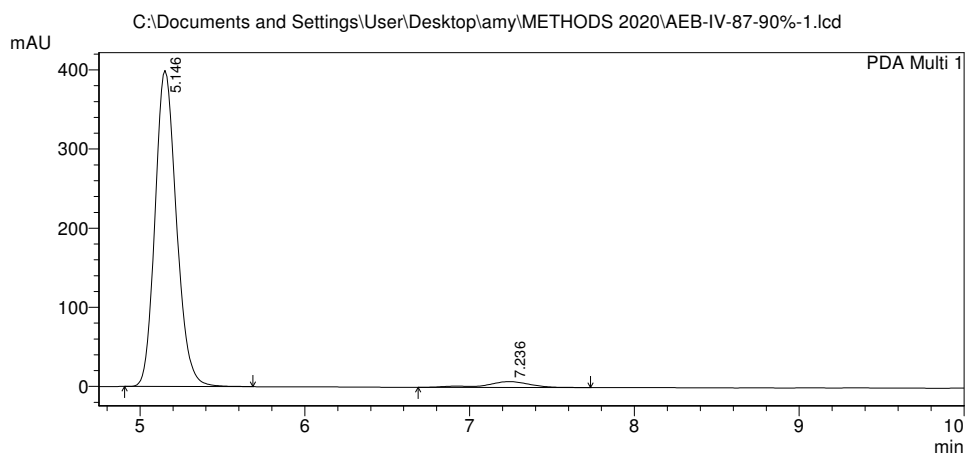
Peak#	Ret. Time	Area	Height	Area %	Height %
1	5.130	15379390	1696473	97.714	98.530
2	7.235	359783	25304	2.286	1.470
Total		15739174	1721778	100.000	100.000

==== Shimadzu LcSolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-87-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-87-90%-1
 Sample ID : AEB-IV-87-90%-1
 Tray# : 1
 Vial # : 19
 Injection Volume : 10 uL
 Data File Name : AEB-IV-87-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 10:28:57 PM
 Data Processed : 7/27/2020 10:39:00 PM

<Chromatogram>



PeakTable

PDA Ch1 254nm 4nm

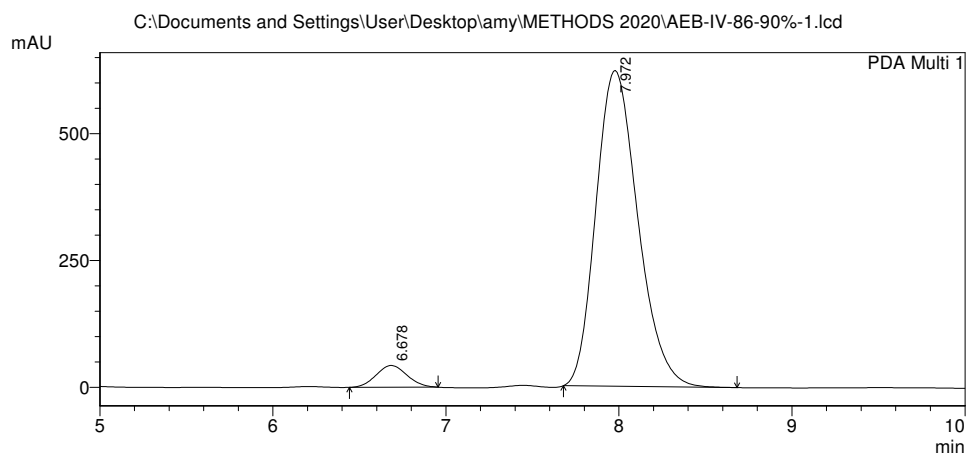
Peak#	Ret. Time	Area	Height	Area %	Height %
1	5.146	3598770	399450	96.281	98.191
2	7.236	139009	7361	3.719	1.809
Total		3737780	406811	100.000	100.000

==== Shimadzu LcSolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-86-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-86-90%-1
Sample ID : AEB-IV-86-90%-1
Tray# : 1
Vial # : 18
Injection Volume : 10 uL
Data File Name : AEB-IV-86-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 7/27/2020 10:08:21 PM
Data Processed : 7/27/2020 10:18:24 PM

<Chromatogram>



PeakTable

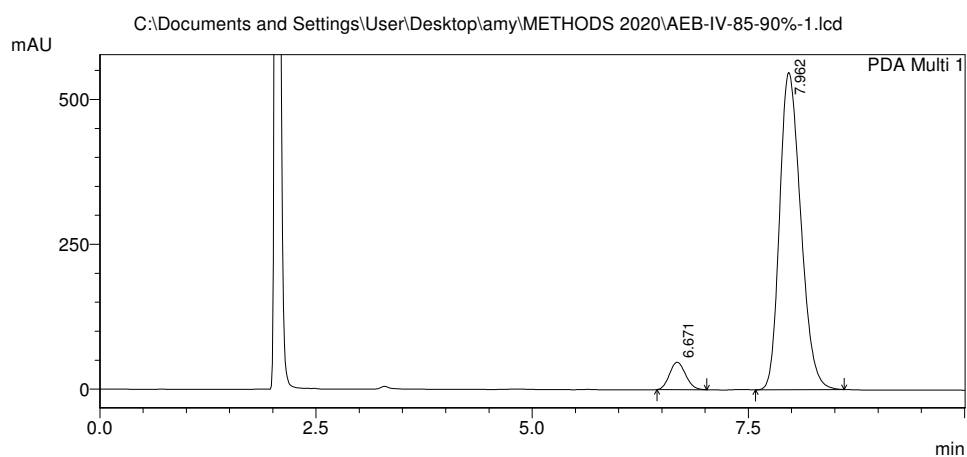
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.678	535867	42947	4.862	6.456
2	7.972	10484817	622329	95.138	93.544
Total		11020684	665276	100.000	100.000

==== Shimadzu LcSolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-85-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-85-90%-1
 Sample ID : AEB-IV-85-90%-1
 Tray# : 1
 Vial # : 17
 Injection Volume : 10 uL
 Data File Name : AEB-IV-85-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 9:47:46 PM
 Data Processed : 7/27/2020 9:57:47 PM

<Chromatogram>



PeakTable

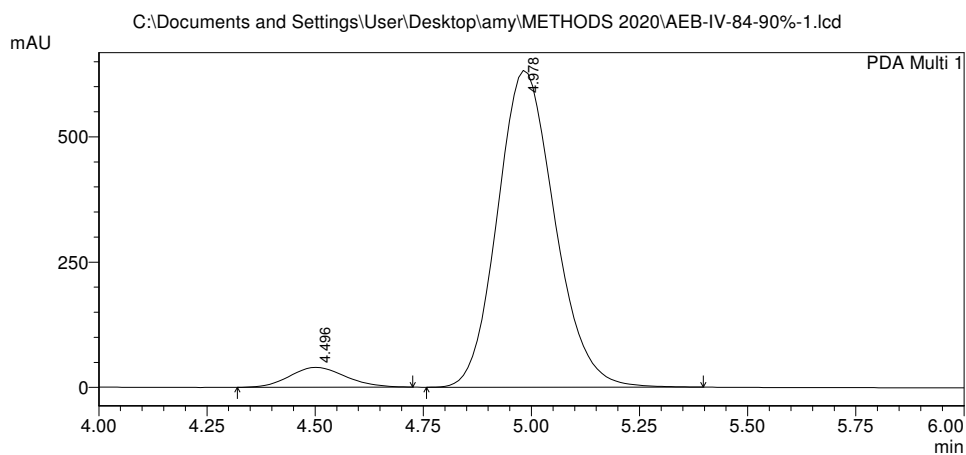
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.671	610949	47344	6.165	7.957
2	7.962	9298609	547628	93.835	92.043
Total		9909558	594972	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-84-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-84-90%-1
 Sample ID : AEB-IV-84-90%-1
 Tray# : 1
 Vial # : 16
 Injection Volume : 10 uL
 Data File Name : AEB-IV-84-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 9:27:09 PM
 Data Processed : 7/27/2020 9:37:11 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

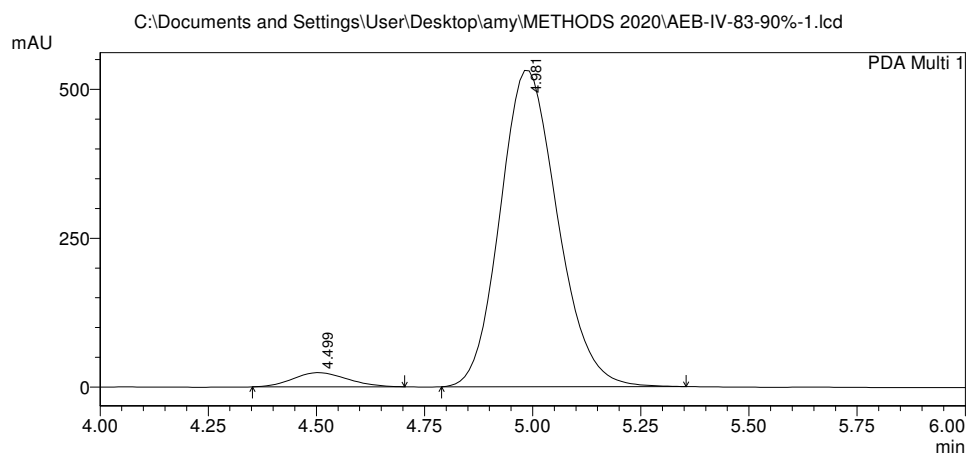
Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.496	357312	39678	5.792	5.907
2	4.978	5811359	632004	94.208	94.093
Total		6168670	671682	100.000	100.000

==== Shimadzu LcSolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-83-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-83-90%-1
 Sample ID : AEB-IV-83-90%-1
 Tray# : 1
 Vial # : 15
 Injection Volume : 10 uL
 Data File Name : AEB-IV-83-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 9:06:29 PM
 Data Processed : 7/27/2020 9:16:33 PM

<Chromatogram>



PeakTable

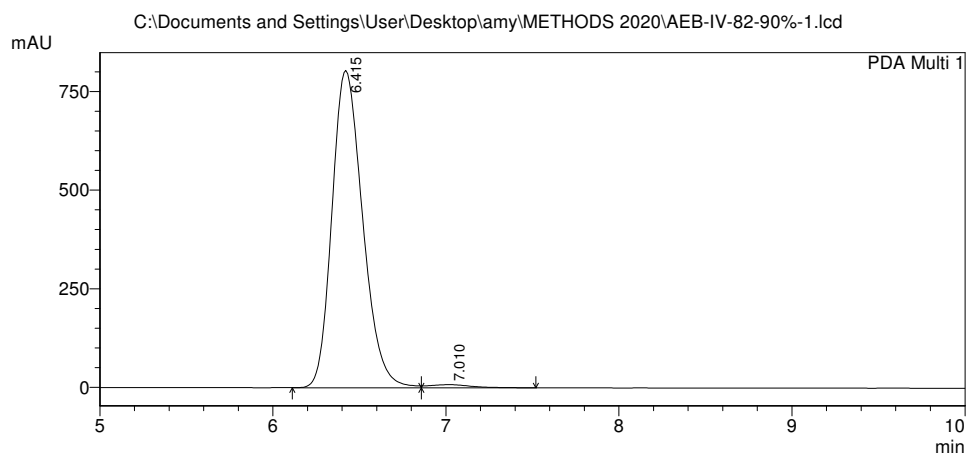
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	4.499	209235	23806	4.085	4.289
2	4.981	4912857	531207	95.915	95.711
Total		5122092	555013	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-82-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-82-90%-1
 Sample ID : AEB-IV-82-90%-1
 Tray# : 1
 Vial # : 14
 Injection Volume : 10 uL
 Data File Name : AEB-IV-82-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 8:45:50 PM
 Data Processed : 7/27/2020 8:55:52 PM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

PDA Ch1 254nm 4nm

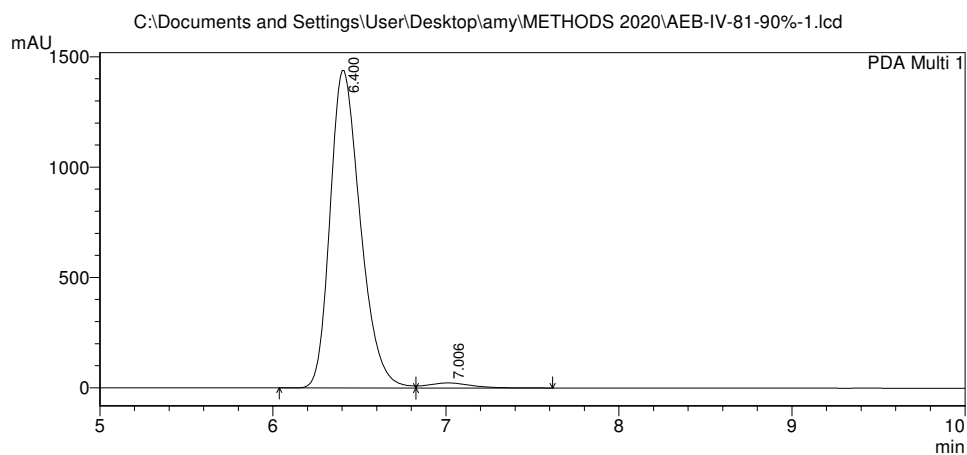
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.415	9903400	804210	98.716	99.028
2	7.010	128861	7895	1.284	0.972
Total		10032262	812104	100.000	100.000

==== Shimadzu LcSolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-81-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-81-90%-1
 Sample ID : AEB-IV-81-90%-1
 Tray# : 1
 Vial # : 13
 Injection Volume : 10 uL
 Data File Name : AEB-IV-81-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/27/2020 8:25:13 PM
 Data Processed : 7/27/2020 8:35:15 PM

<Chromatogram>



PeakTable

PDA Ch1 254nm 4nm

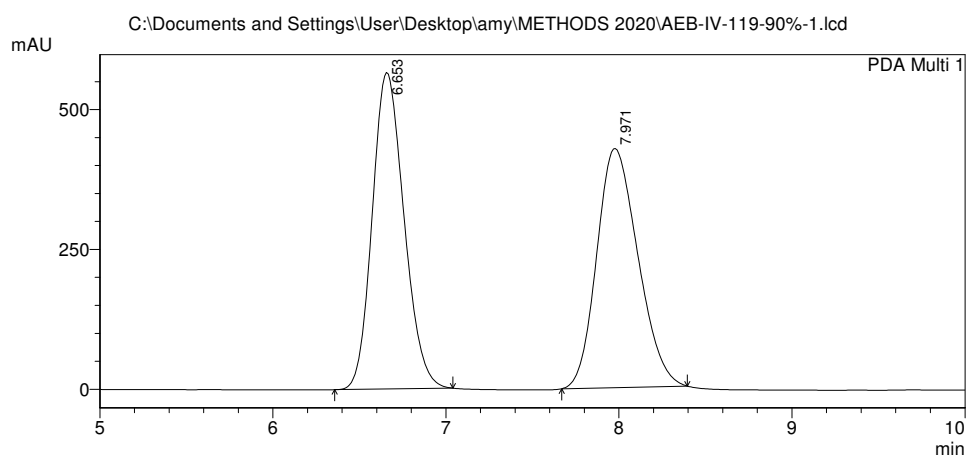
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.400	17474047	1439032	97.823	98.432
2	7.006	388919	22926	2.177	1.568
Total		17862966	1461958	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-119-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-119-90%-1
Sample ID : AEB-IV-119-90%-1
Tray# : 1
Vial # : 23
Injection Volume : 10 uL
Data File Name : AEB-IV-119-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 7/27/2020 11:51:24 PM
Data Processed : 7/28/2020 12:01:26 AM

<Chromatogram>



1 PDA Multi 1/254nm 4nm

PeakTable

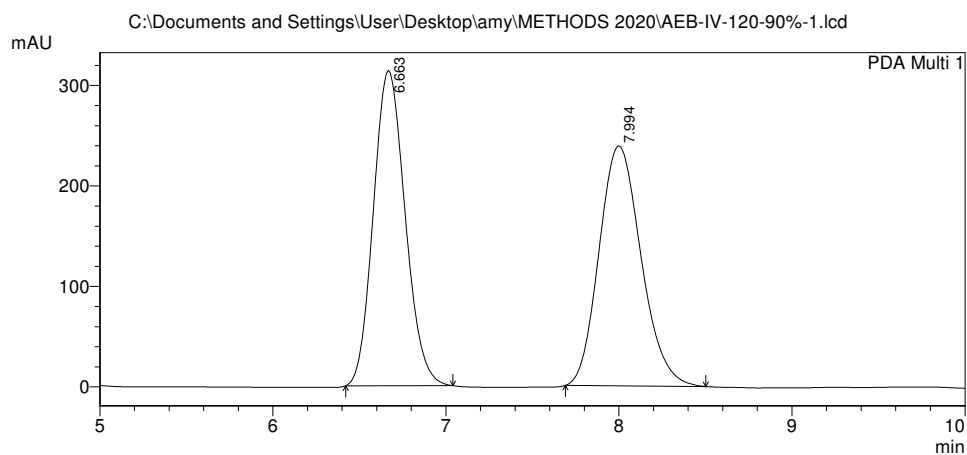
PDA Ch1 254nm 4nm

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.653	7242799	566112	50.595	56.959
2	7.971	7072516	427784	49.405	43.041
Total		14315315	993895	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-120-90%-1.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-120-90%-1
 Sample ID : AEB-IV-120-90%-1
 Tray# : 1
 Vial # : 24
 Injection Volume : 10 uL
 Data File Name : AEB-IV-120-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 7/28/2020 12:12:00 AM
 Data Processed : 7/28/2020 12:22:02 AM

<Chromatogram>



PeakTable

PDA Ch1 254nm 4nm

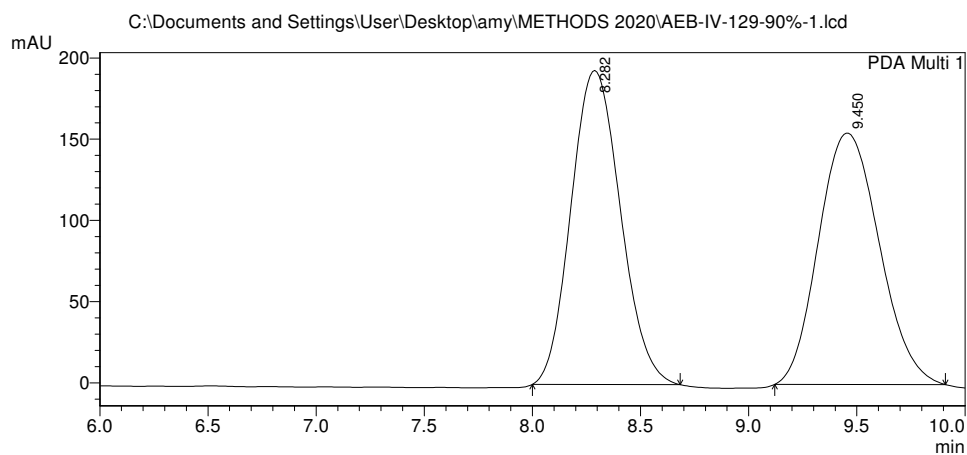
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.663	4012254	313766	49.910	56.781
2	7.994	4026648	238819	50.090	43.219
Total		8038902	552585	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-129-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-129-90%-1
Sample ID : AEB-IV-129-90%-1
Tray# : 1
Vial # : 1
Injection Volume : 10 uL
Data File Name : AEB-IV-129-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 8/10/2020 1:57:58 PM
Data Processed : 8/10/2020 2:08:01 PM

<Chromatogram>



PeakTable

PDA Ch1 254nm 4nm

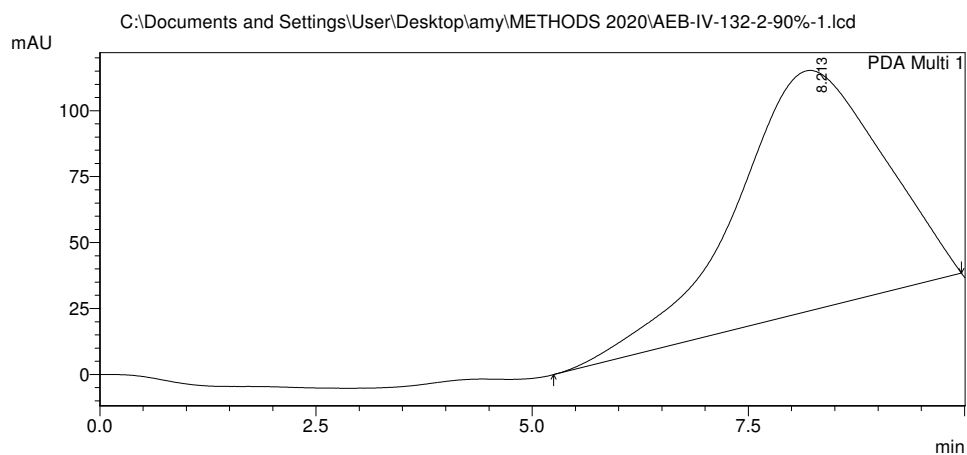
Peak#	Ret. Time	Area	Height	Area %	Height %
1	8.282	3072026	193301	50.376	55.531
2	9.450	3026213	154793	49.624	44.469
Total		6098239	348094	100.000	100.000

==== Shimadzu LcSolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-132-2-90%-1.lcd

Acquired by : Admin
 Sample Name : AEB-IV-132-2-90%-1
 Sample ID : AEB-IV-132-2-90%-1
 Tray# : 1
 Vial # : 3
 Injection Volume : 10 uL
 Data File Name : AEB-IV-132-2-90%-1.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 8/12/2020 2:39:12 PM
 Data Processed : 8/12/2020 2:49:14 PM

<Chromatogram>



PeakTable

PDA Ch1 254nm 4nm

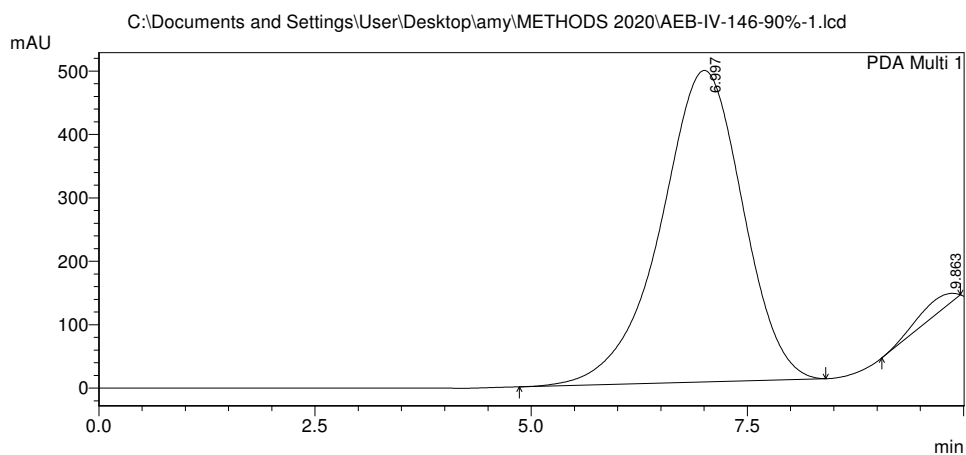
Peak#	Ret. Time	Area	Height	Area %	Height %
1	8.213	10720614	91104	100.000	100.000
Total		10720614	91104	100.000	100.000

==== Shimadzu LCsolution Analysis Report =====

C:\Documents and Settings\User\Desktop\amy\METHODS 2020\AEB-IV-146-90%-1.lcd

Acquired by : Admin
Sample Name : AEB-IV-146-90%-1
Sample ID : AEB-IV-146-90%-1
Tray# : 1
Vial # : 2
Injection Volume : 10 uL
Data File Name : AEB-IV-146-90%-1.lcd
Method File Name : pos3-90%_10MIN_1_d2.lcm
Batch File Name : Batch table C3_90%_10min_1.0_D2.lcb
Report File Name : Default.lcr
Data Acquired : 8/11/2020 6:06:47 PM
Data Processed : 8/11/2020 6:16:49 PM

<Chromatogram>



PDA Ch1 254nm 4nm

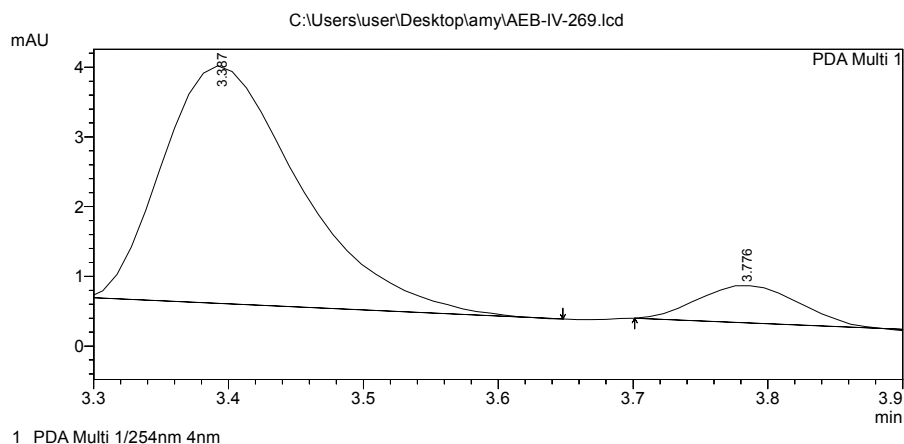
PeakTable

Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.997	32401449	491274	97.814	97.371
2	9.863	724000	13263	2.186	2.629
Total		33125450	504537	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Users\user\Desktop\amy\AEB-IV-269.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-269
 Sample ID : AEB-IV-269
 Tray# : 1
 Vial # : 2
 Injection Volume : 10 uL
 Data File Name : AEB-IV-269.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_60min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 1/13/2021 3:48:39 PM
 Data Processed : 1/13/2021 3:58:42 PM

<Chromatogram>

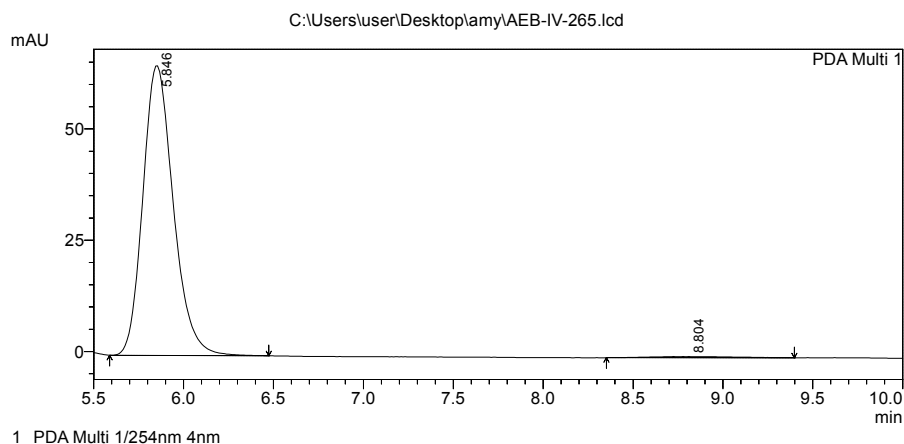


PeakTable					
PDA Ch1 254nm 4nm					
Peak#	Ret. Time	Area	Height	Area %	Height %
1	3.387	24003	3403	89.855	86.590
2	3.776	2710	527	10.145	13.410
Total		26713	3930	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Users\user\Desktop\amy\AEB-IV-265.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-265
 Sample ID : AEB-IV-265
 Tray# : 1
 Vial # : 1
 Injection Volume : 10 uL
 Data File Name : AEB-IV-265.lcd
 Method File Name : pos3-90%_60MIN_1.0_D2.lcm
 Batch File Name : Batch table C3_90%_60min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 1/13/2021 3:12:44 PM
 Data Processed : 1/13/2021 3:32:58 PM

<Chromatogram>

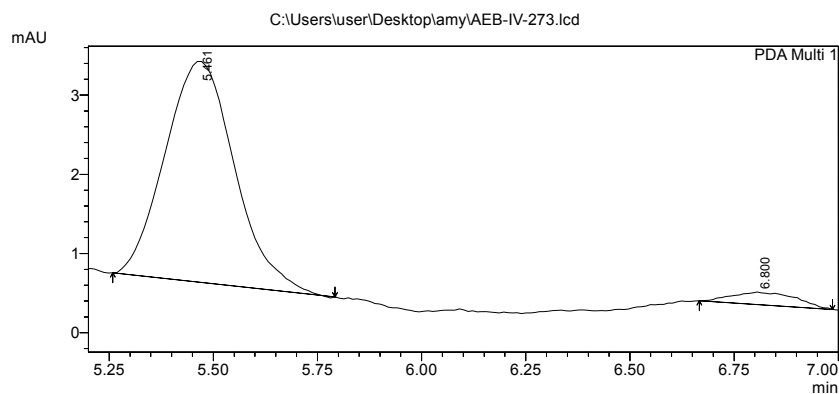


PeakTable					
PDA Ch1 254nm 4nm					
Peak#	Ret. Time	Area	Height	Area %	Height %
1	5.846	766612	65056	98.922	99.604
2	8.804	8357	259	1.078	0.396
Total		774969	65314	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Users\user\Desktop\amy\AEB-IV-273.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-273
 Sample ID : AEB-IV-273
 Tray# : 1
 Vial # : 3
 Injection Volume : 10 uL
 Data File Name : AEB-IV-273.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_60min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 1/13/2021 4:09:19 PM
 Data Processed : 1/13/2021 4:19:20 PM

<Chromatogram>

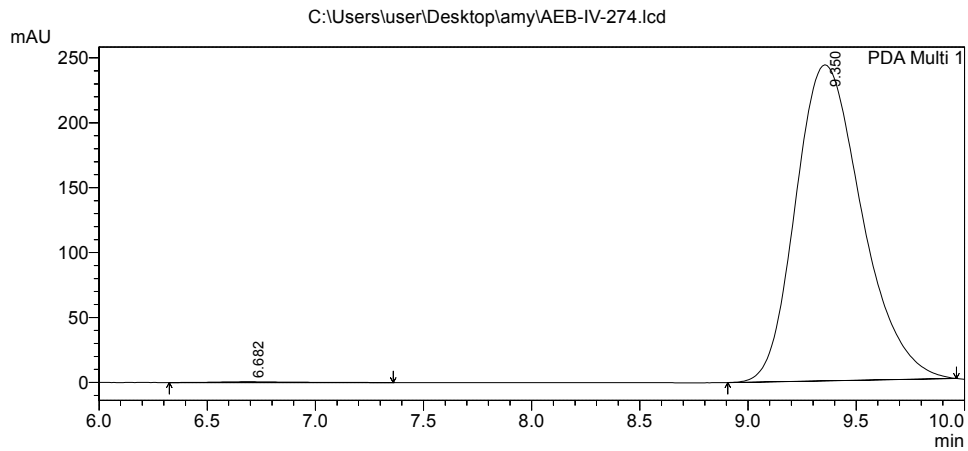


PeakTable					
PDA Ch1 254nm 4nm					
Peak#	Ret. Time	Area	Height	Area %	Height %
1	5.461	32272	2781	95.064	94.693
2	6.800	1676	156	4.936	5.307
Total		33948	2937	100.000	100.000

==== Shimadzu LCsolution Analysis Report ====

C:\Users\user\Desktop\amy\AEB-IV-274.lcd
 Acquired by : Admin
 Sample Name : AEB-IV-274
 Sample ID : AEB-IV-274
 Tray# : 1
 Vial # : 4
 Injection Volume : 10 uL
 Data File Name : AEB-IV-274.lcd
 Method File Name : pos3-90%_10MIN_1_d2.lcm
 Batch File Name : Batch table C3_90%_60min_1.0_D2.lcb
 Report File Name : Default.lcr
 Data Acquired : 1/13/2021 4:29:56 PM
 Data Processed : 1/13/2021 4:39:58 PM

<Chromatogram>



PeakTable					
PDA Ch1 254nm 4nm					
Peak#	Ret. Time	Area	Height	Area %	Height %
1	6.682	15641	642	0.301	0.263
2	9.350	5181502	243492	99.699	99.737
Total		5197143	244134	100.000	100.000

