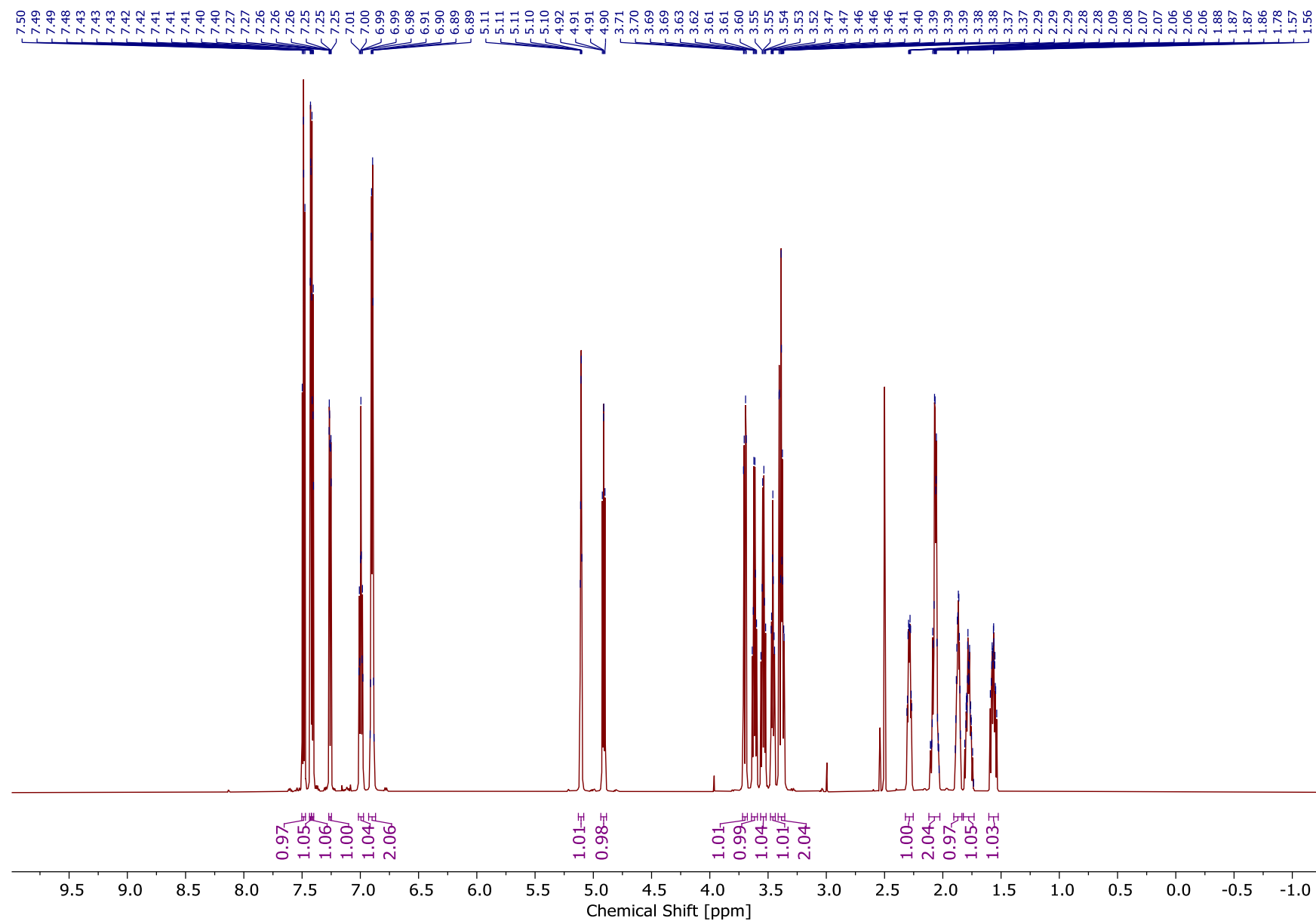
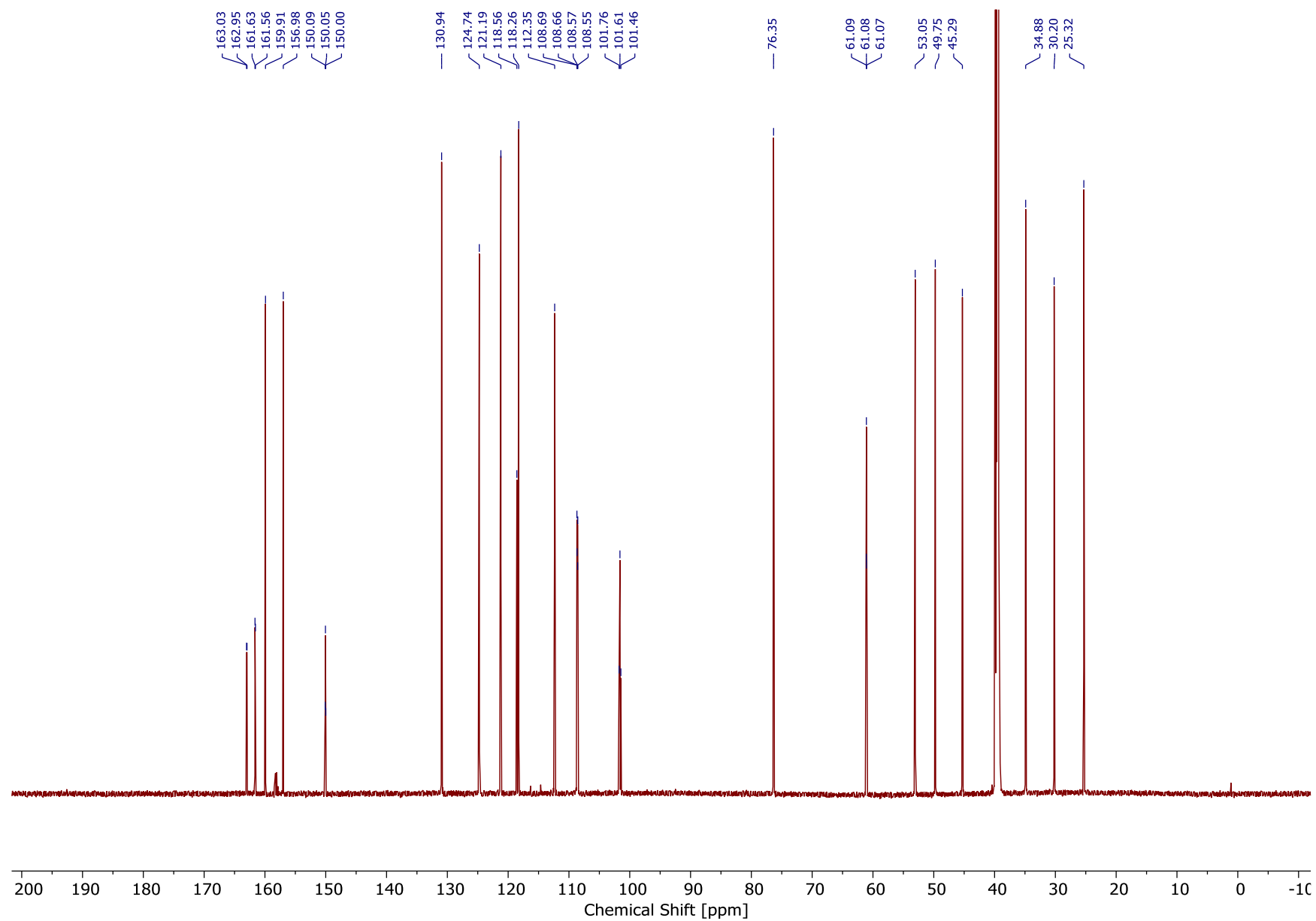


Compound 1:

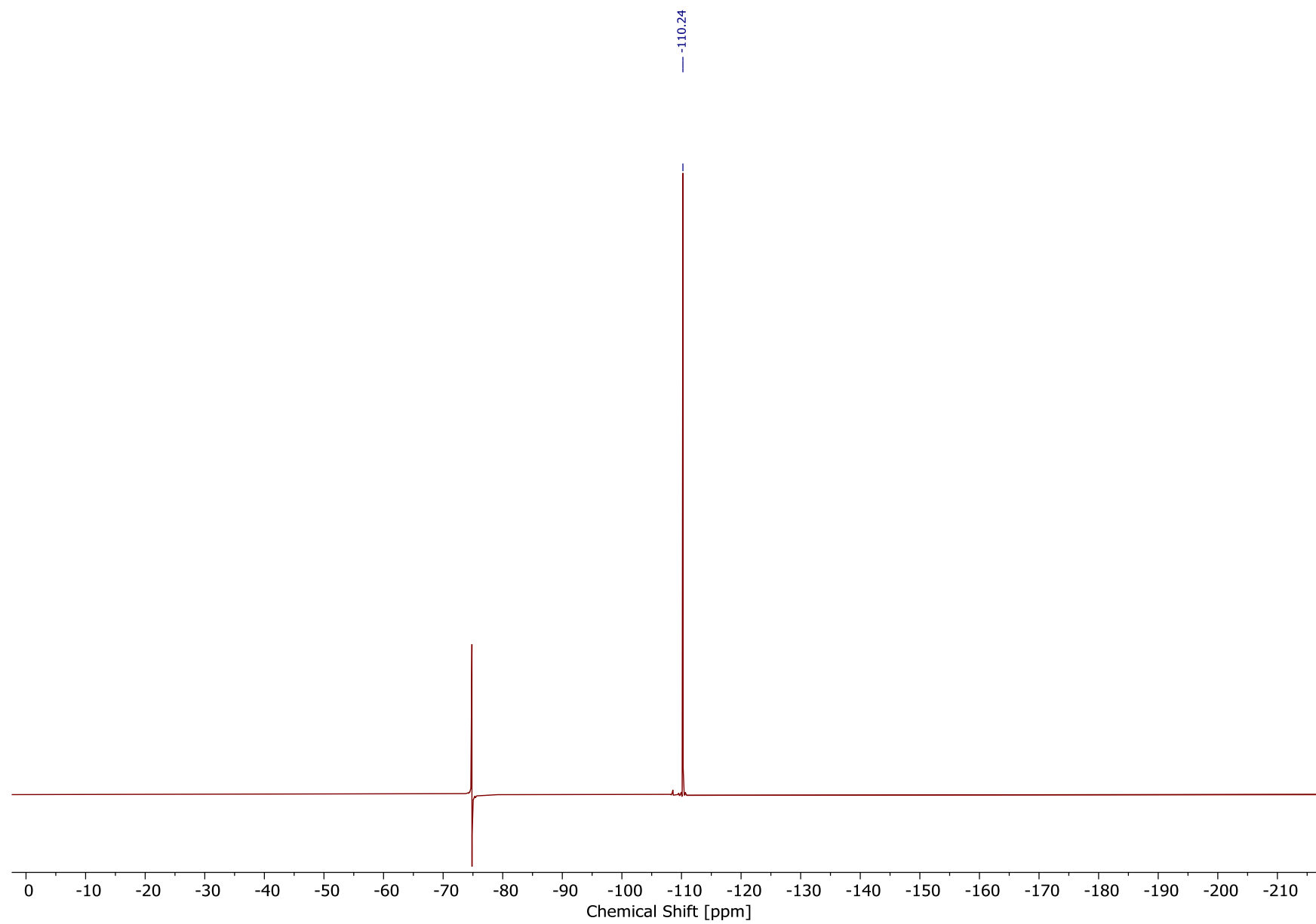
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



^{19}F

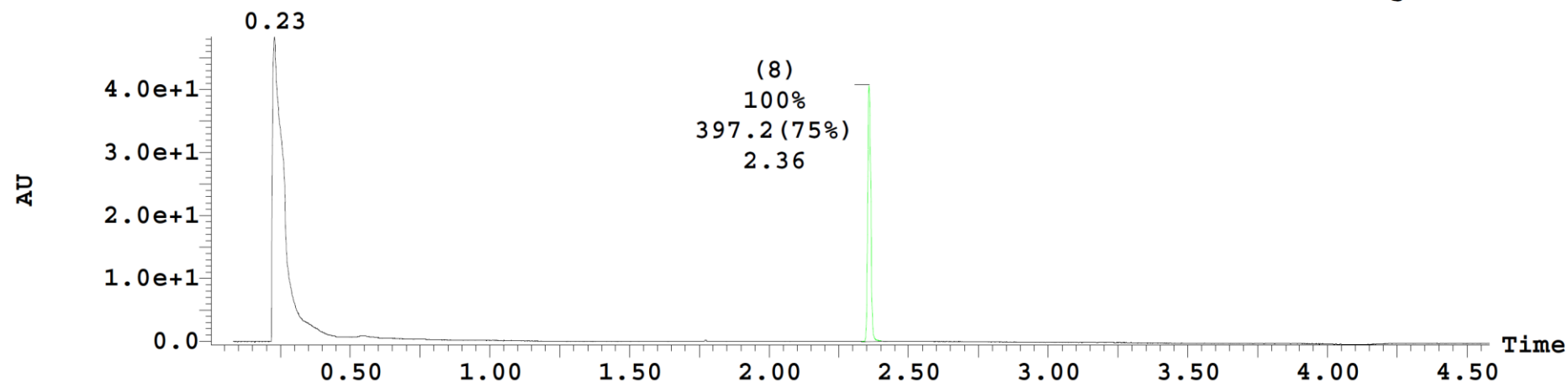


LCMS Chromatogram

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2900-4.4800

4.837e+1

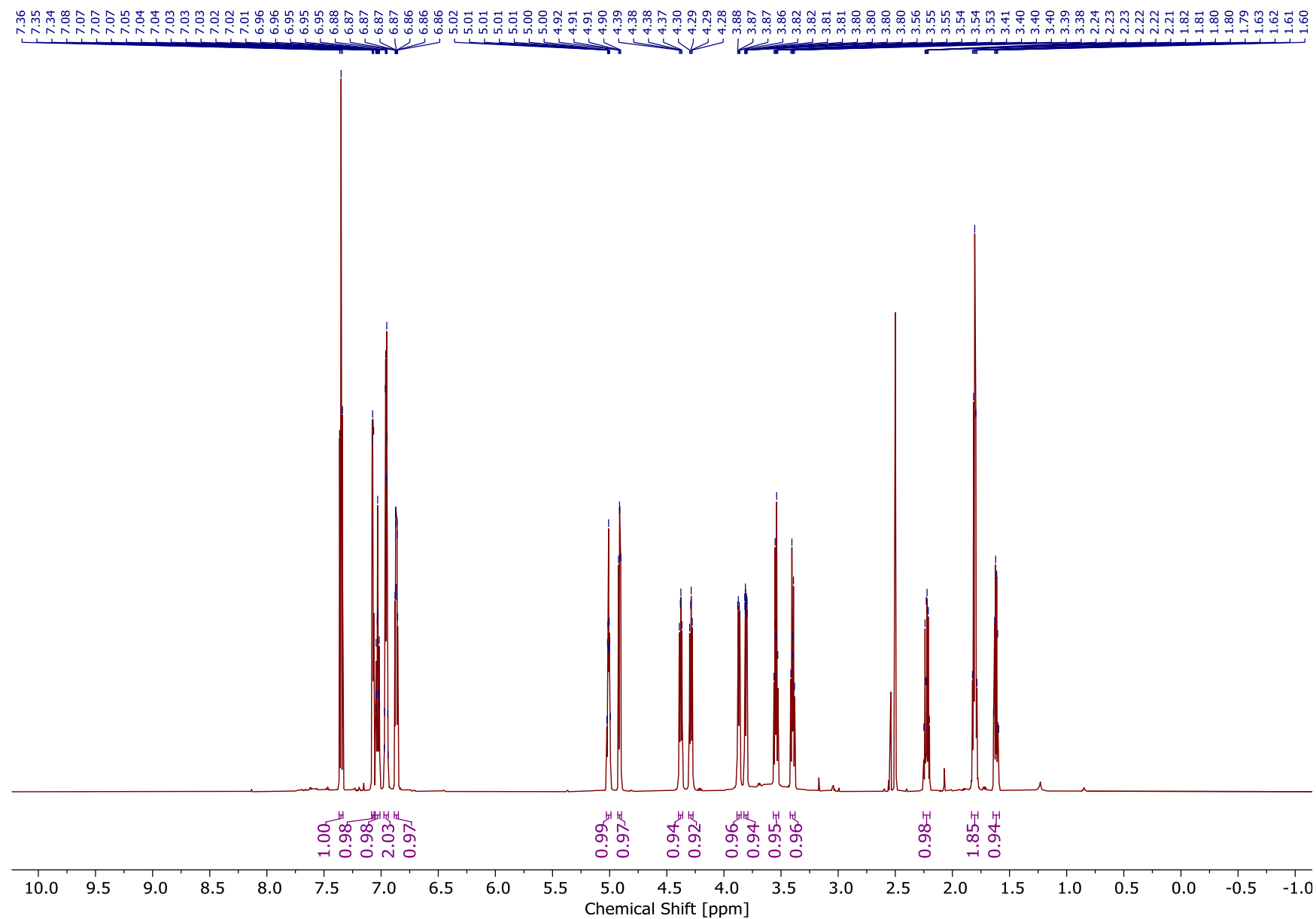
Range: 4.886e+1



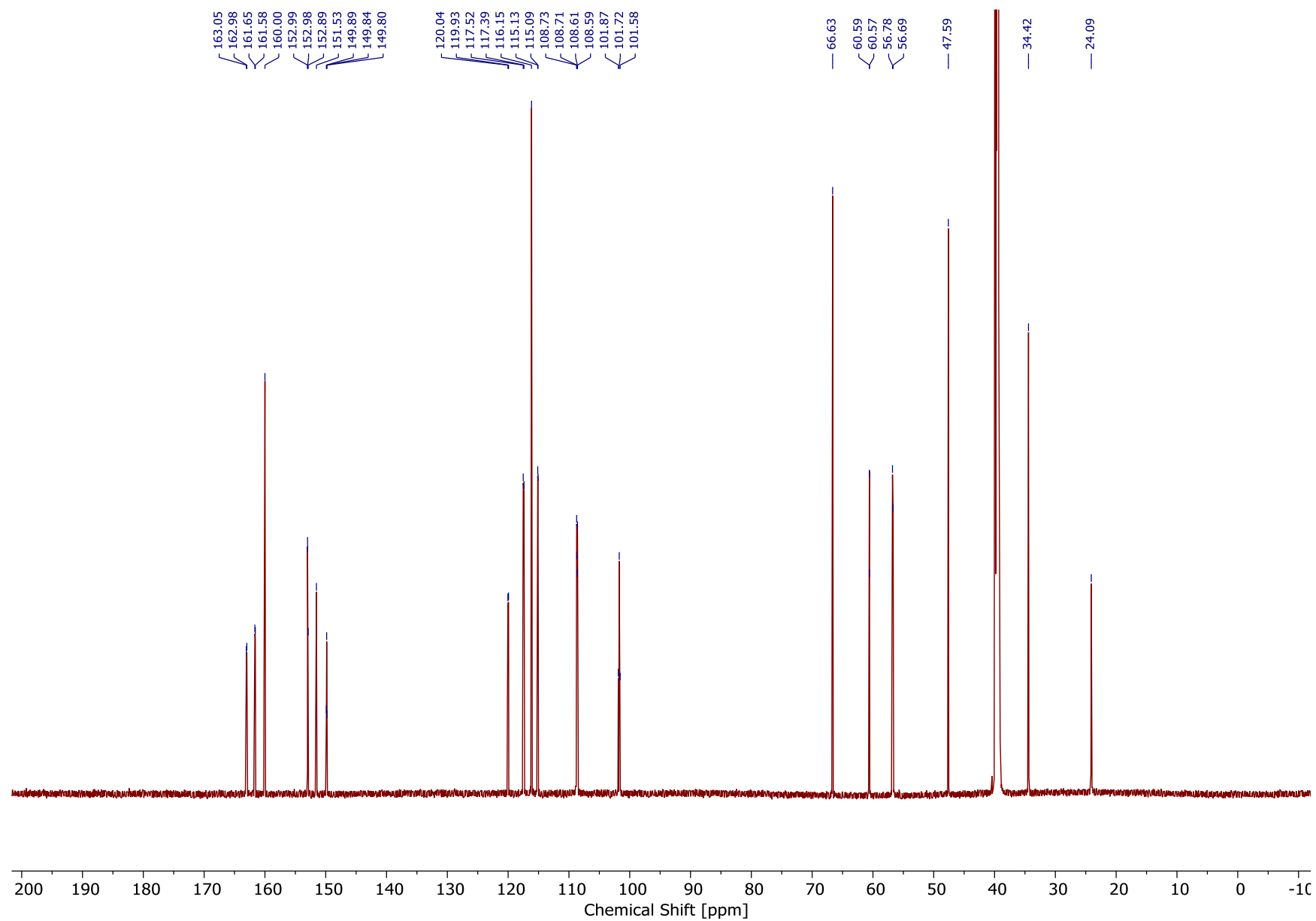
Peak Number	Compound	Time	Area %Total	Mass Found
8	Found	2.36	100.00	397.16

Compound 2:

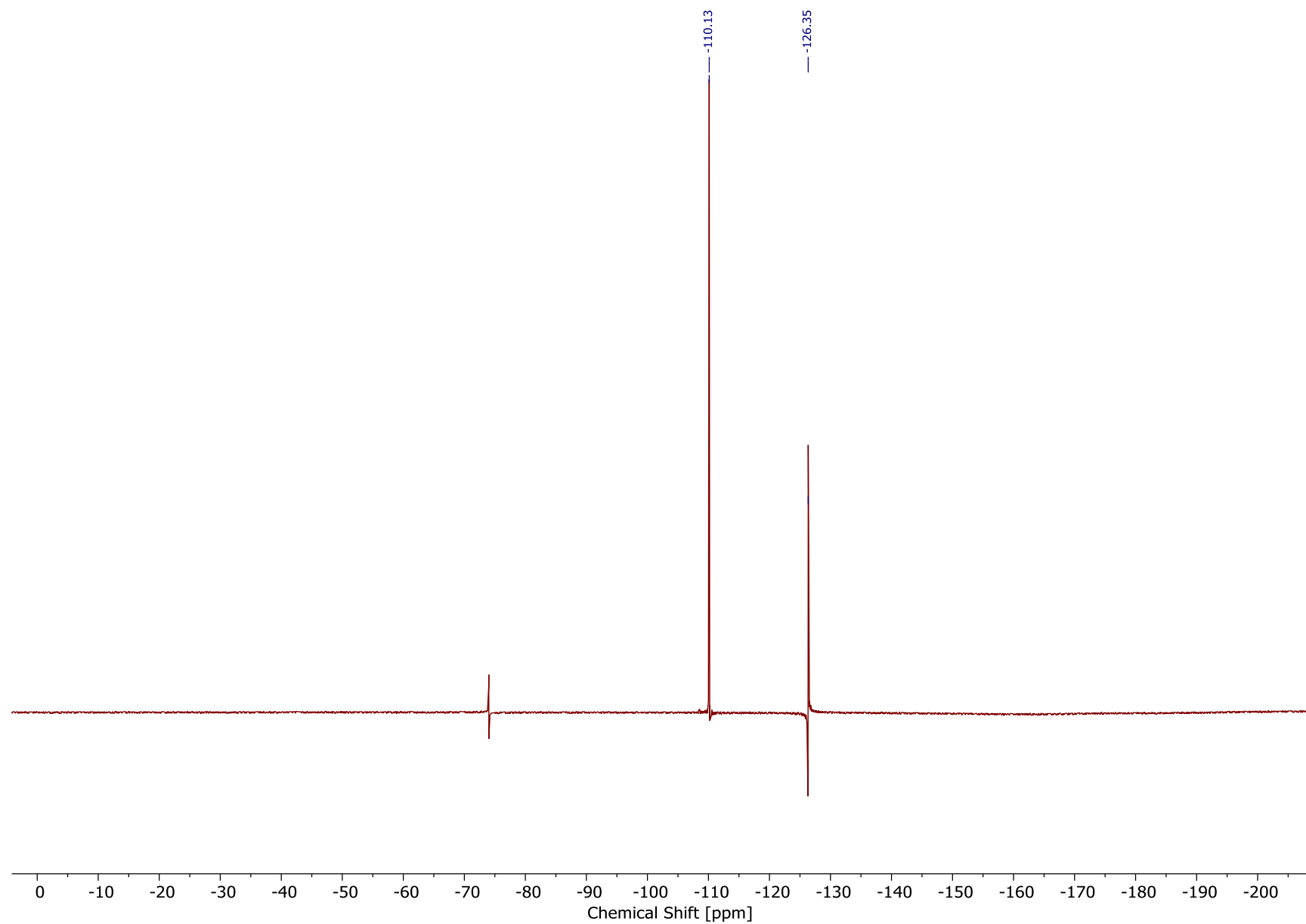
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



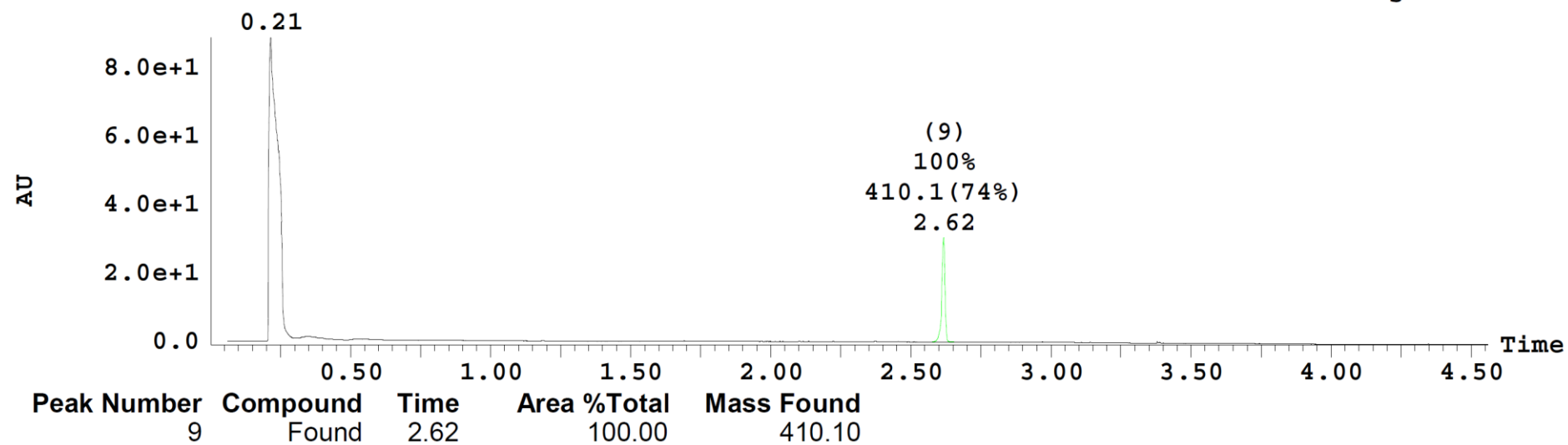
^{19}F



LCMS Chromatogram

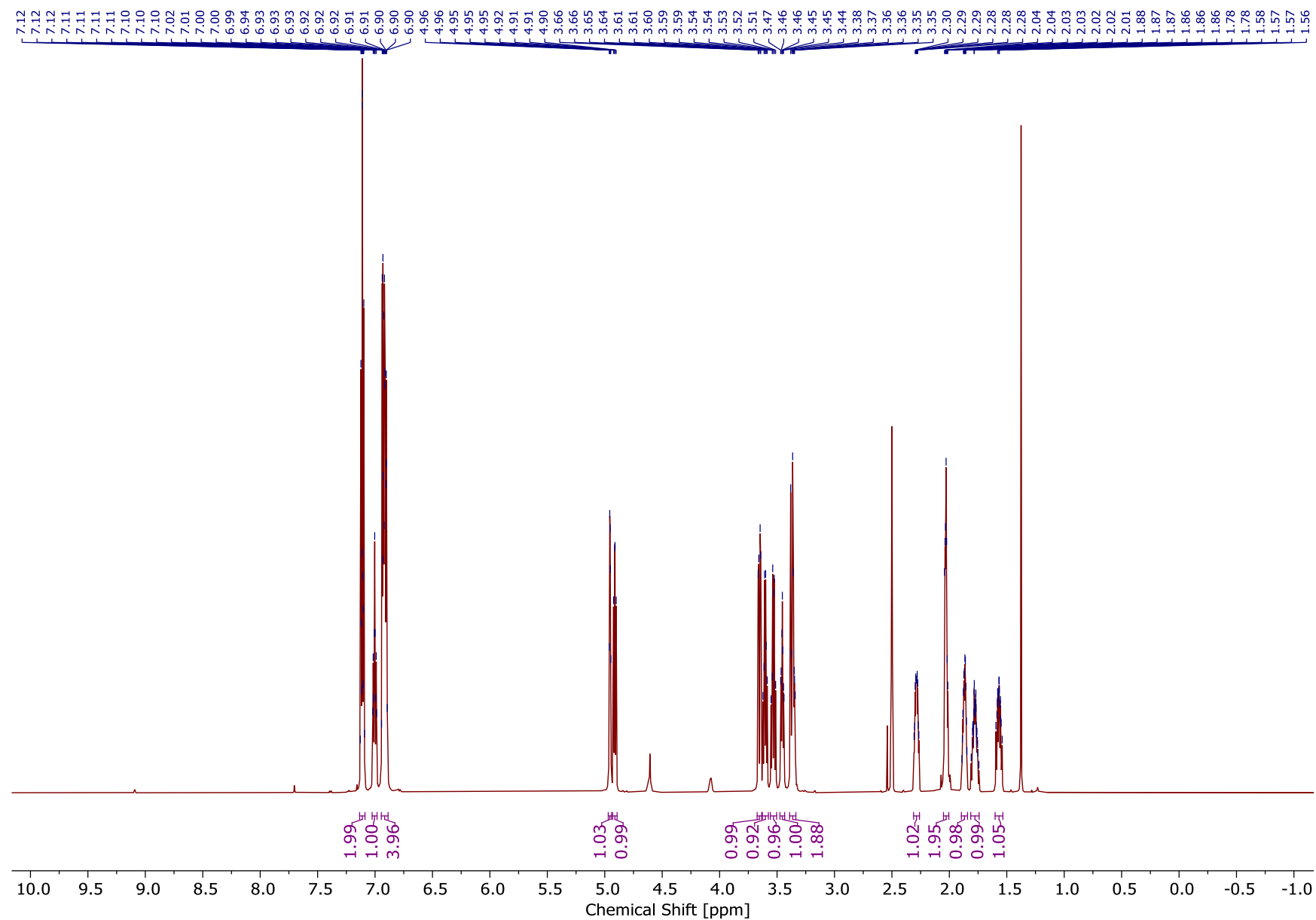
3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

8.878e+1
Range: 8.981e+1

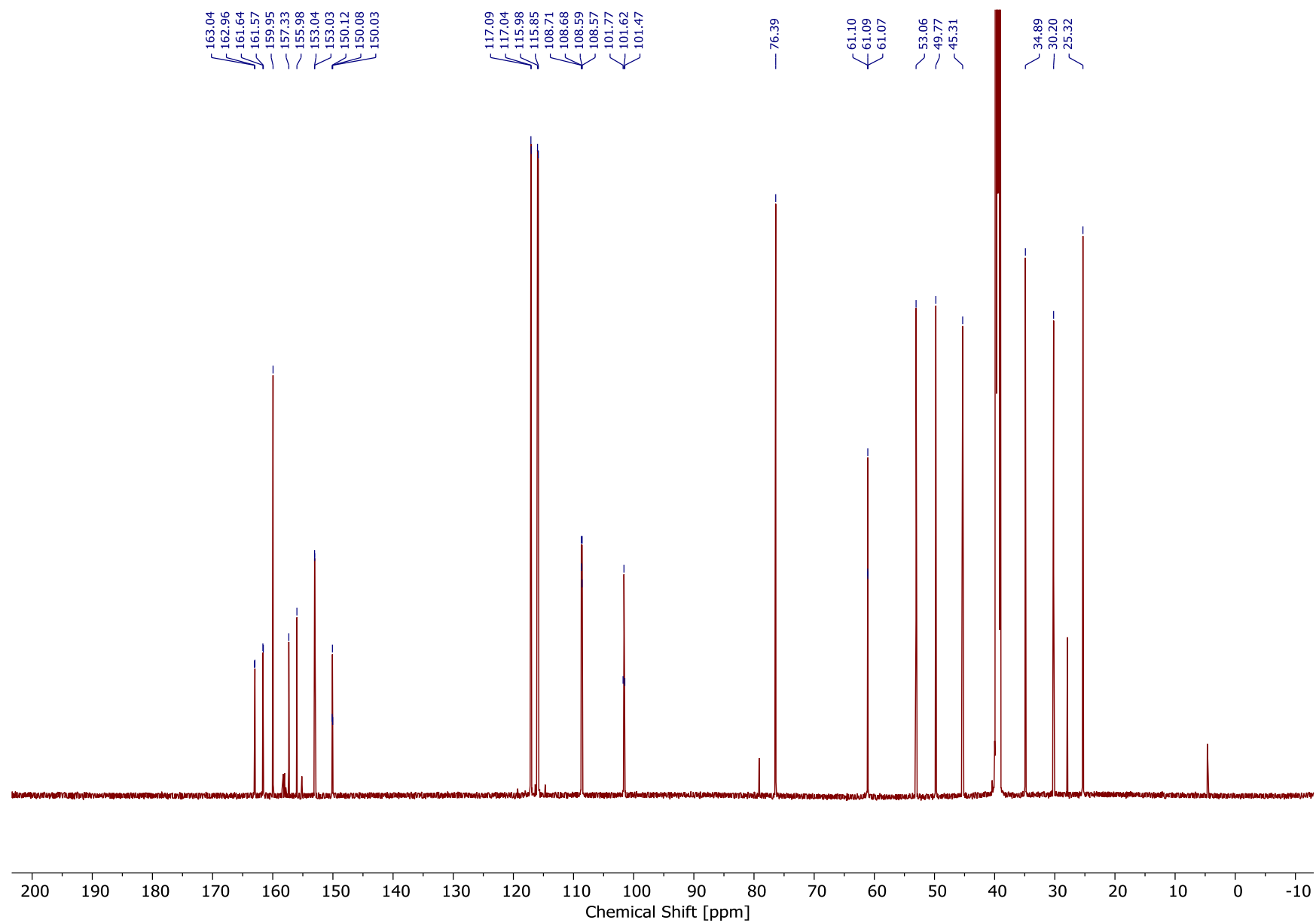


Compound 3:

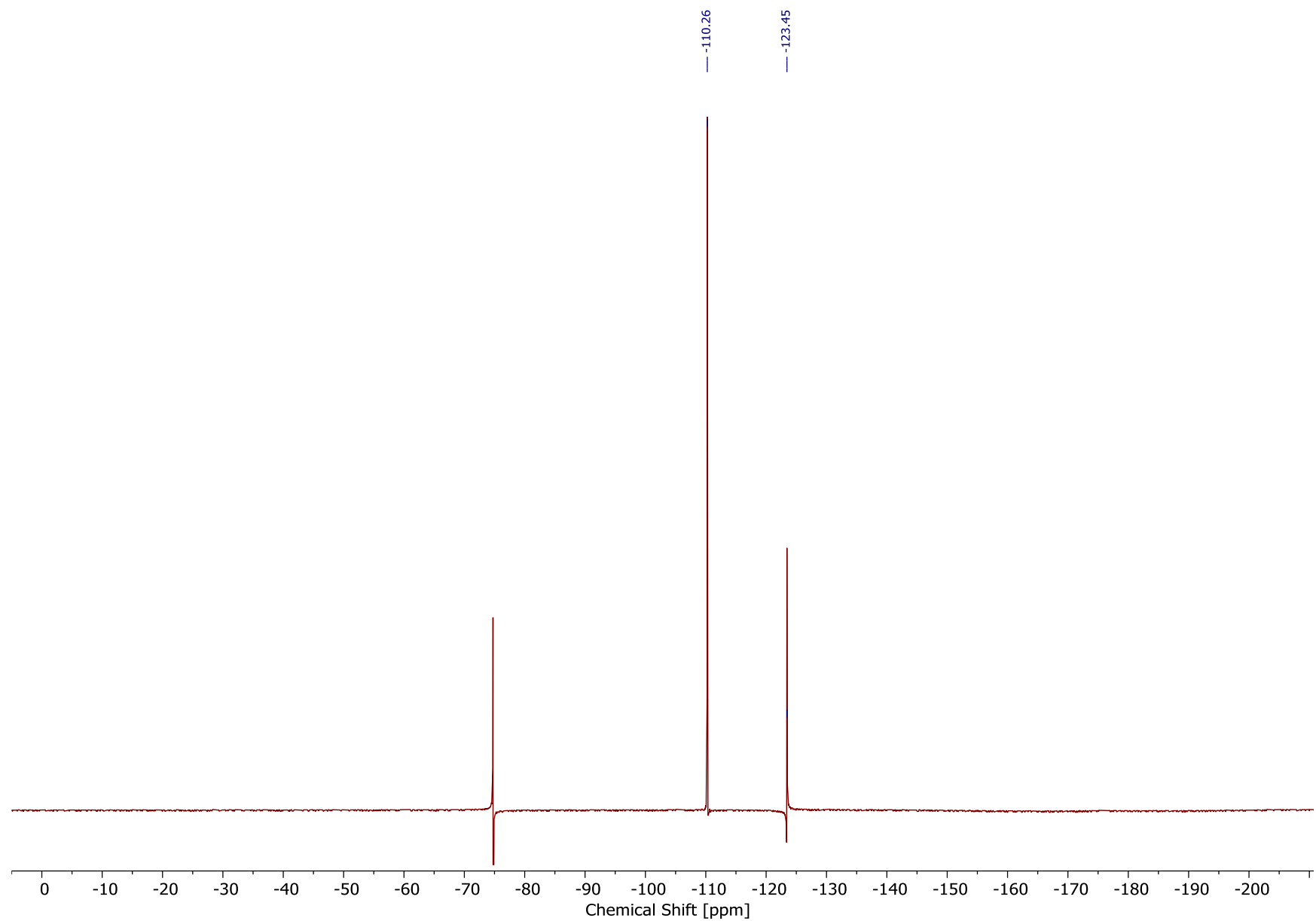
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



^{19}F

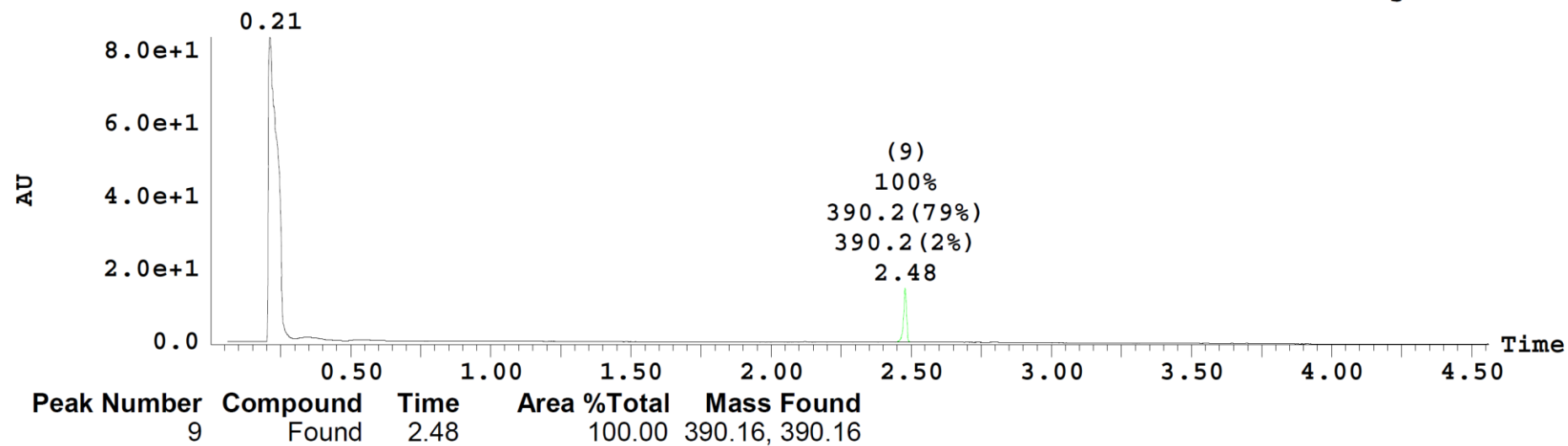


LCMS Chromatogram

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

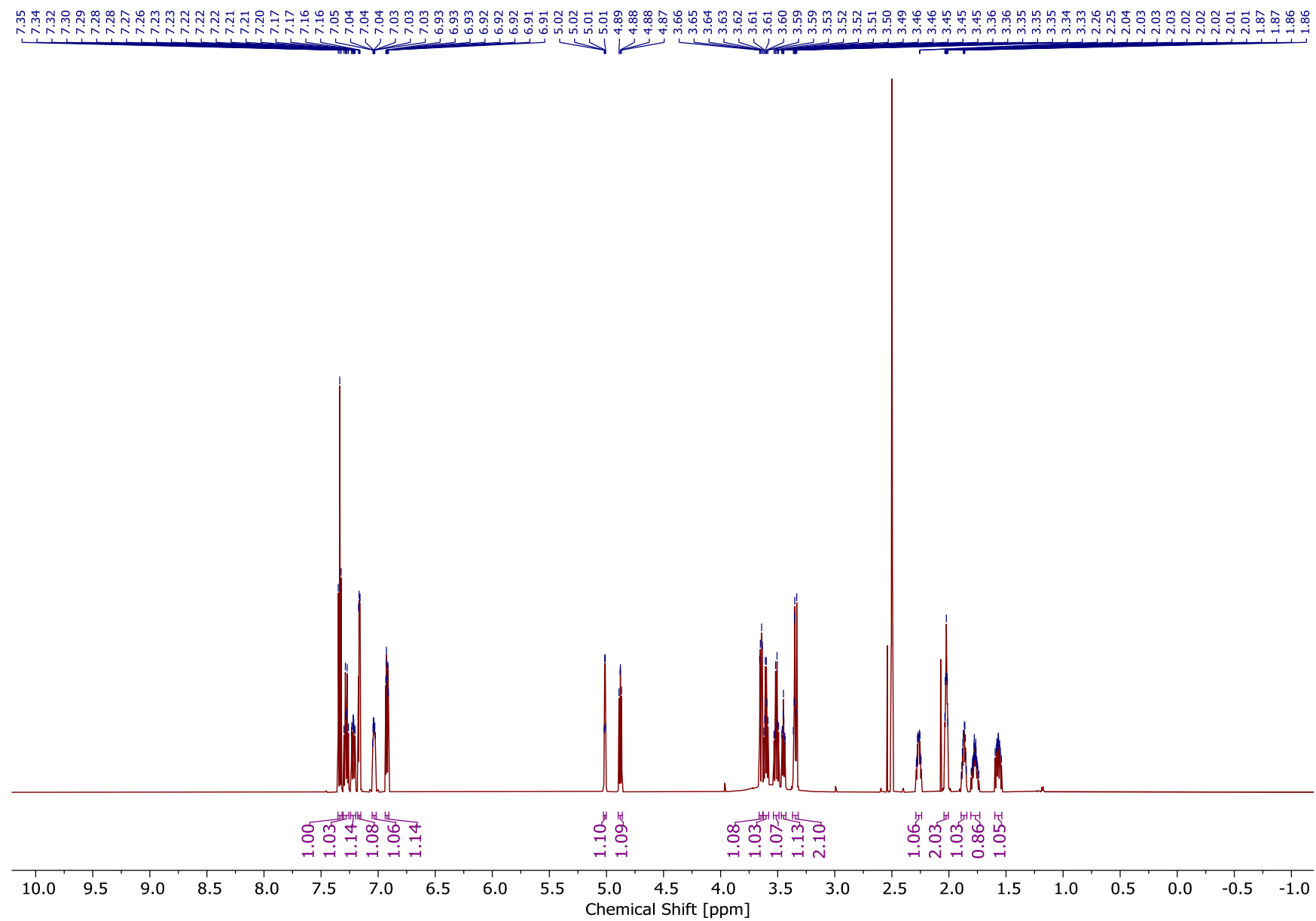
8.369e+1

Range: 8.439e+1

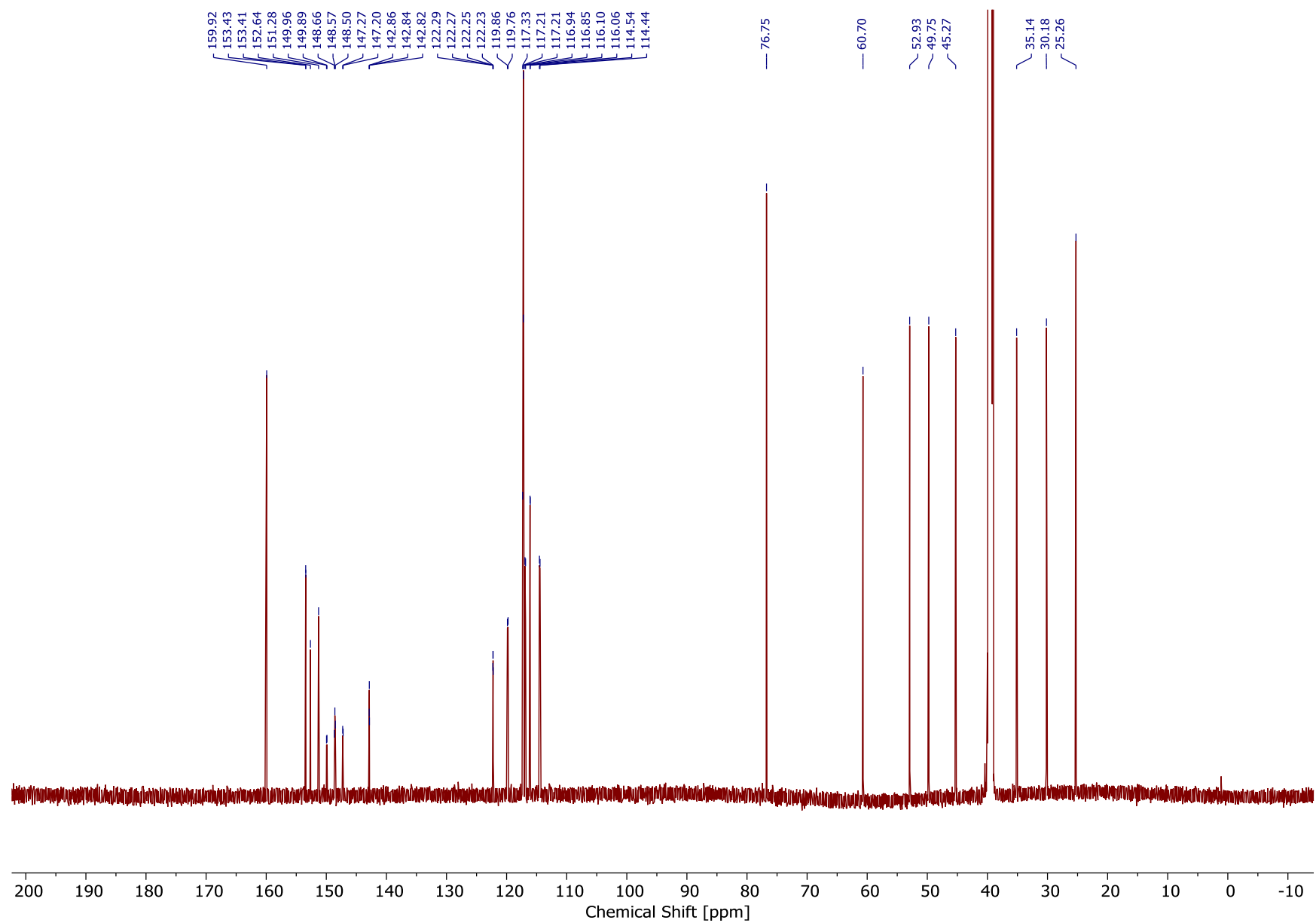


Compound 4:

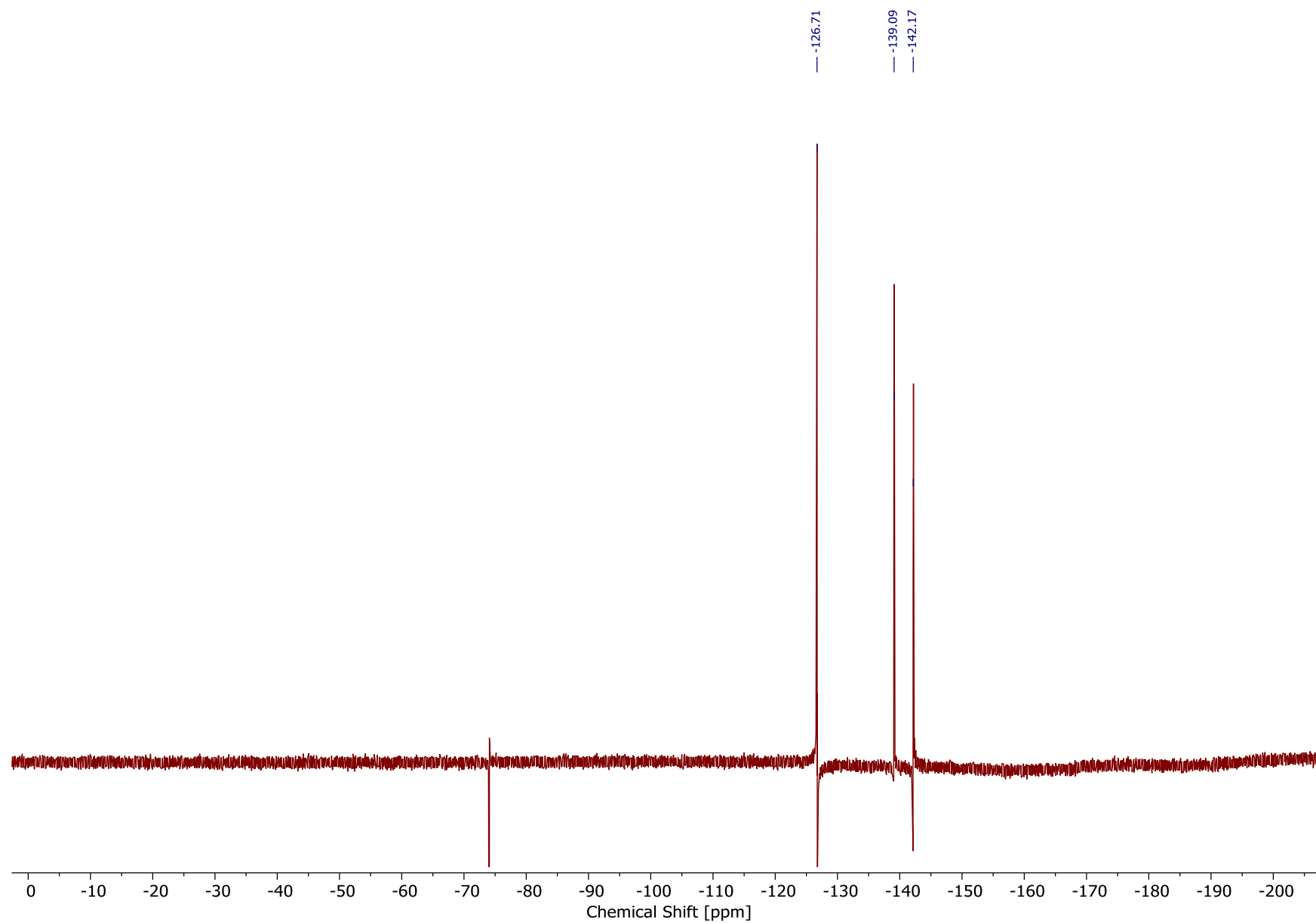
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



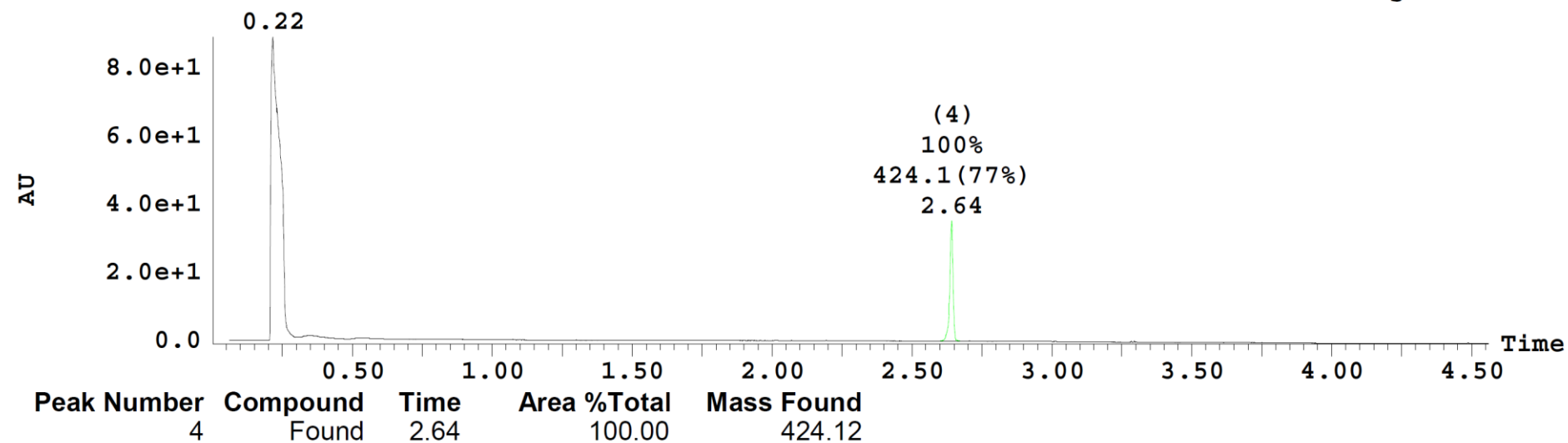
^{19}F



LCMS Chromatogram

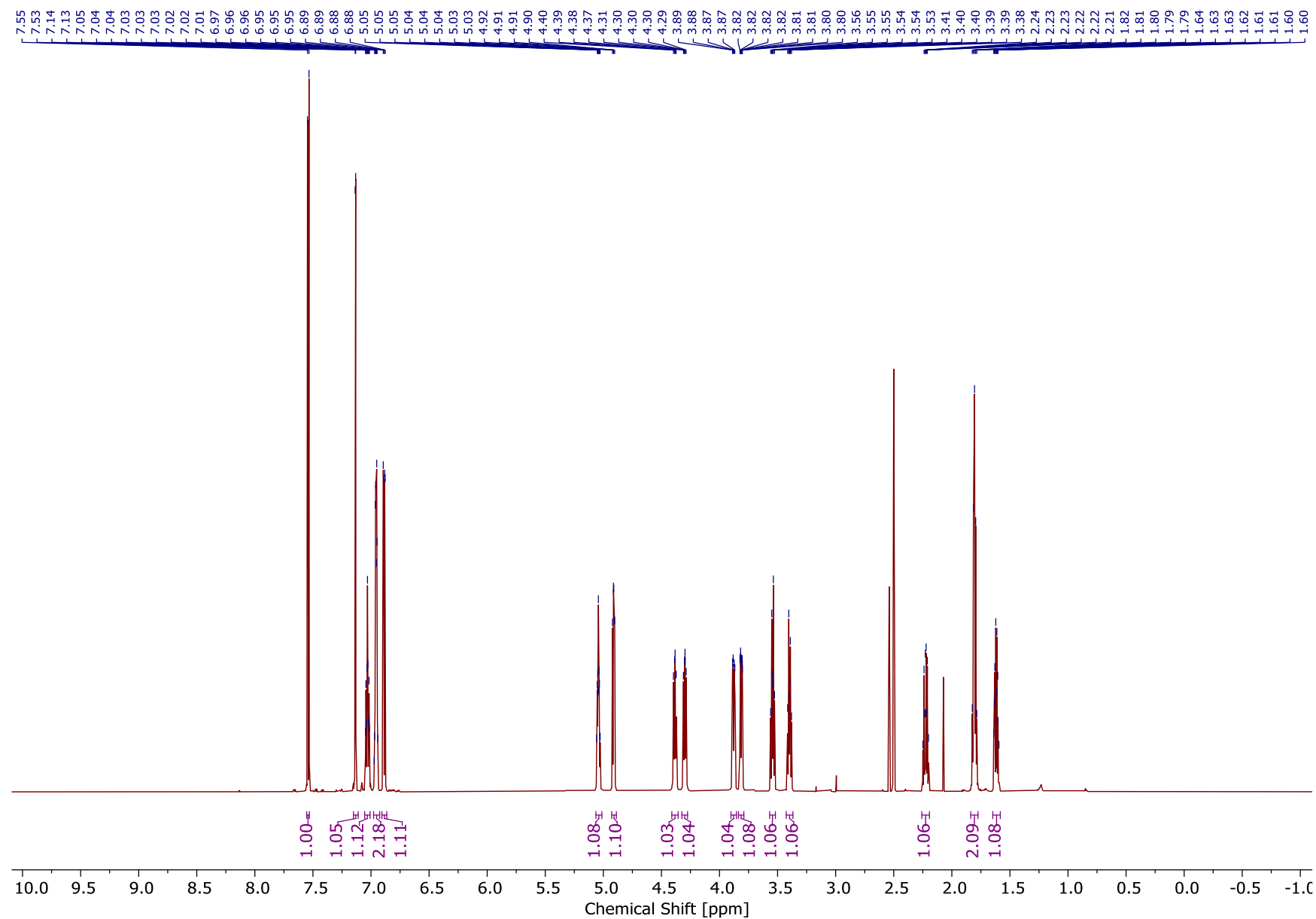
3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

8.899e+1
Range: 9.001e+1

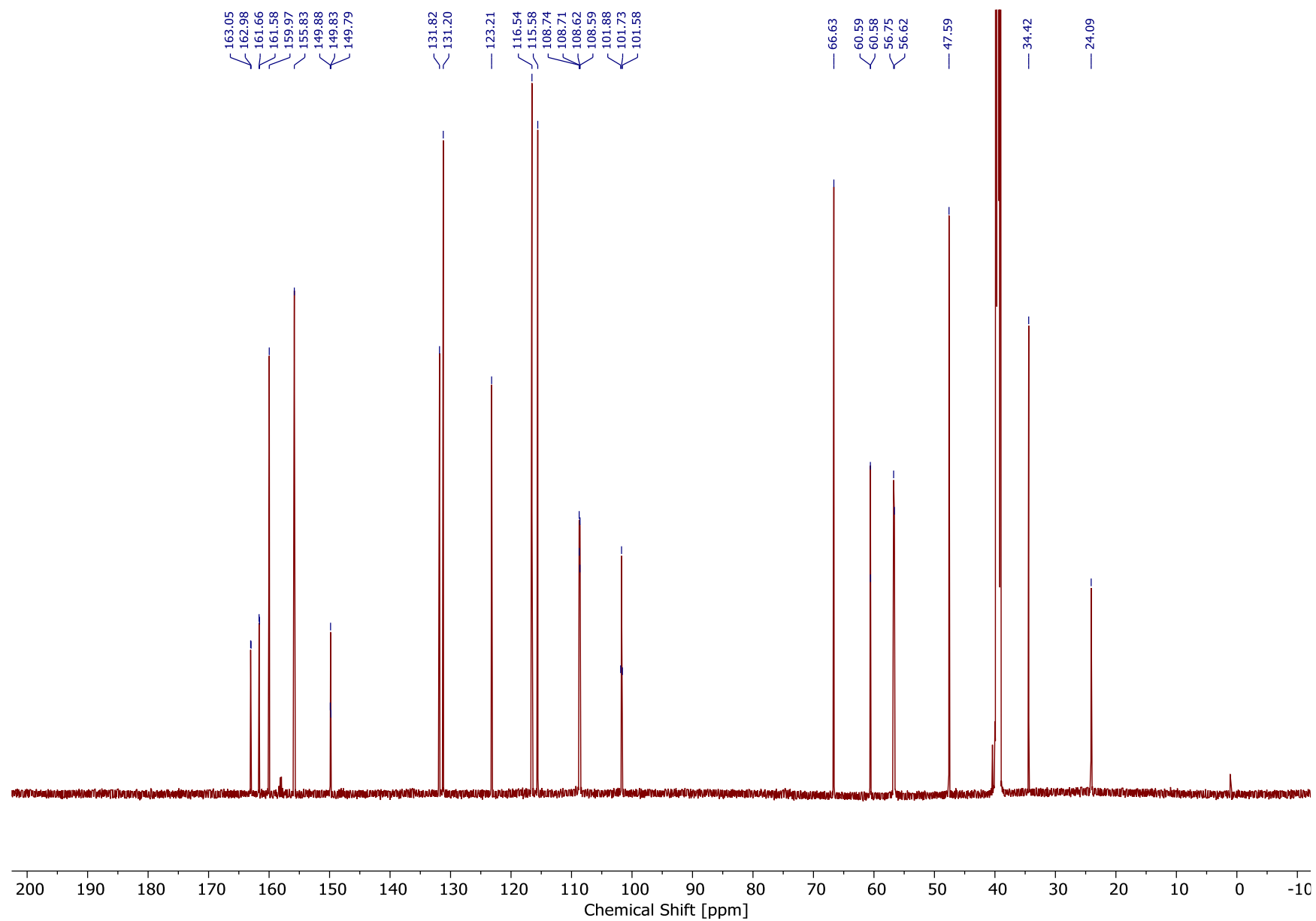


Compound 5:

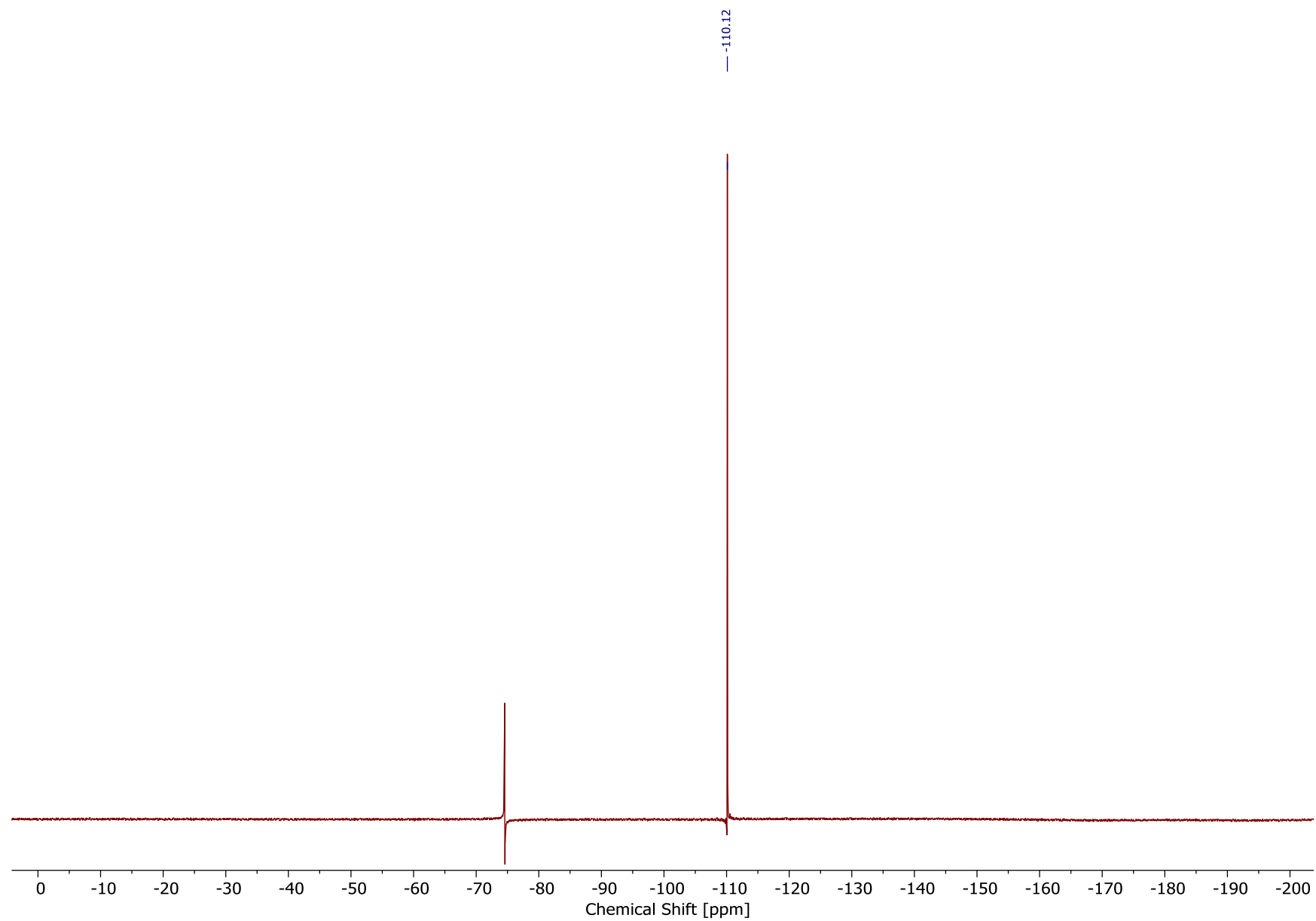
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



^{19}F

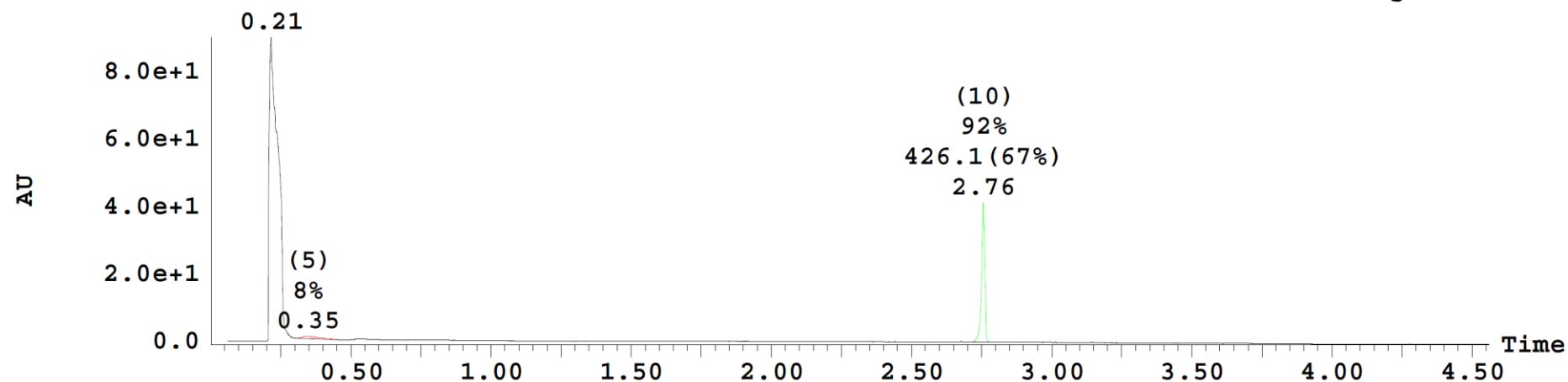


LCMS Chromatogram

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

9.019e+1

Range: 9.123e+1

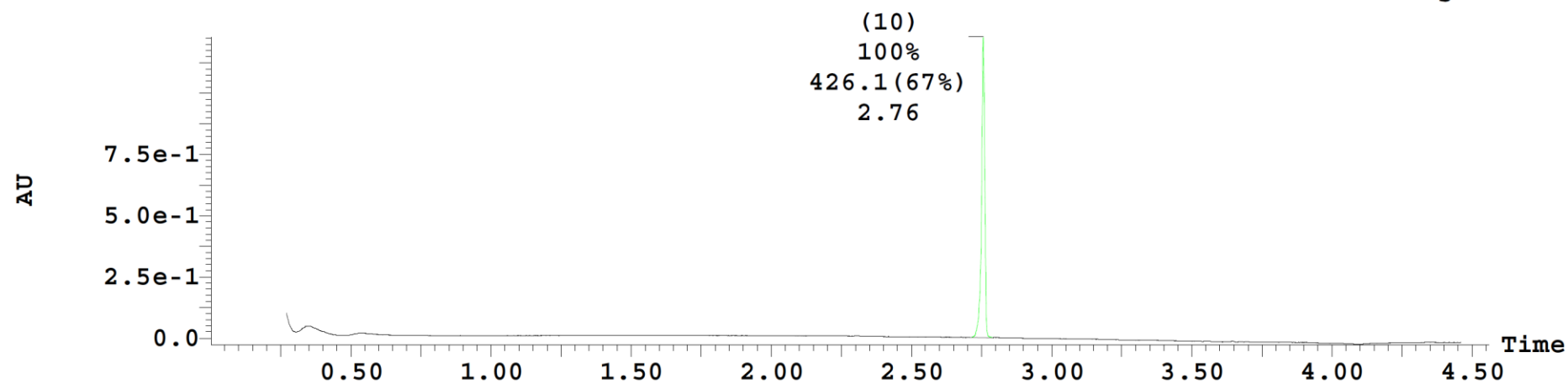


Peak Number	Compound	Time	Area %Total	Mass Found
5		0.35	8.00	Not Found
10	Found	2.76	92.00	426.07

3: UV Detector: 220 Nm 0.7600-4.0600

1.228

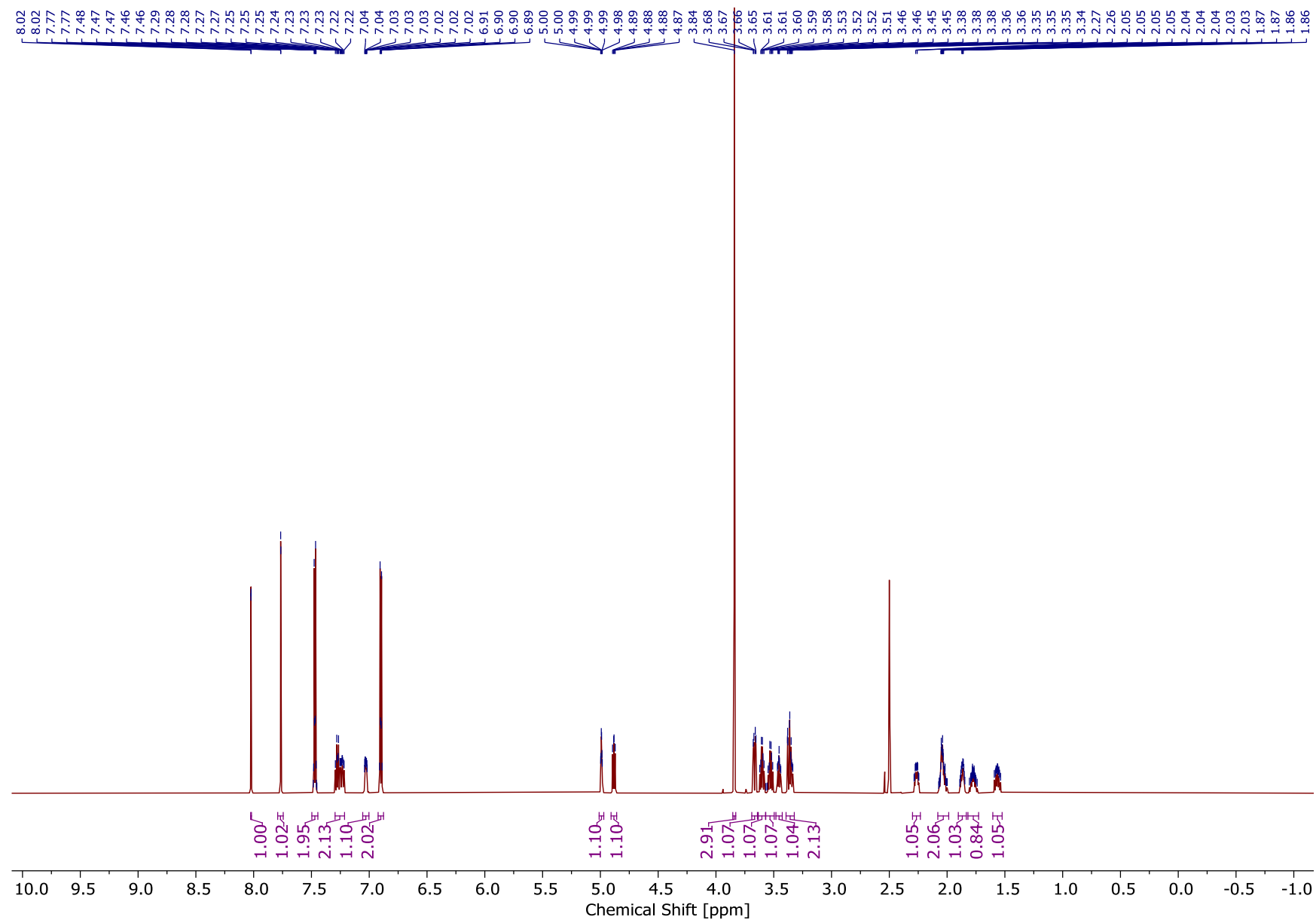
Range: 1.253



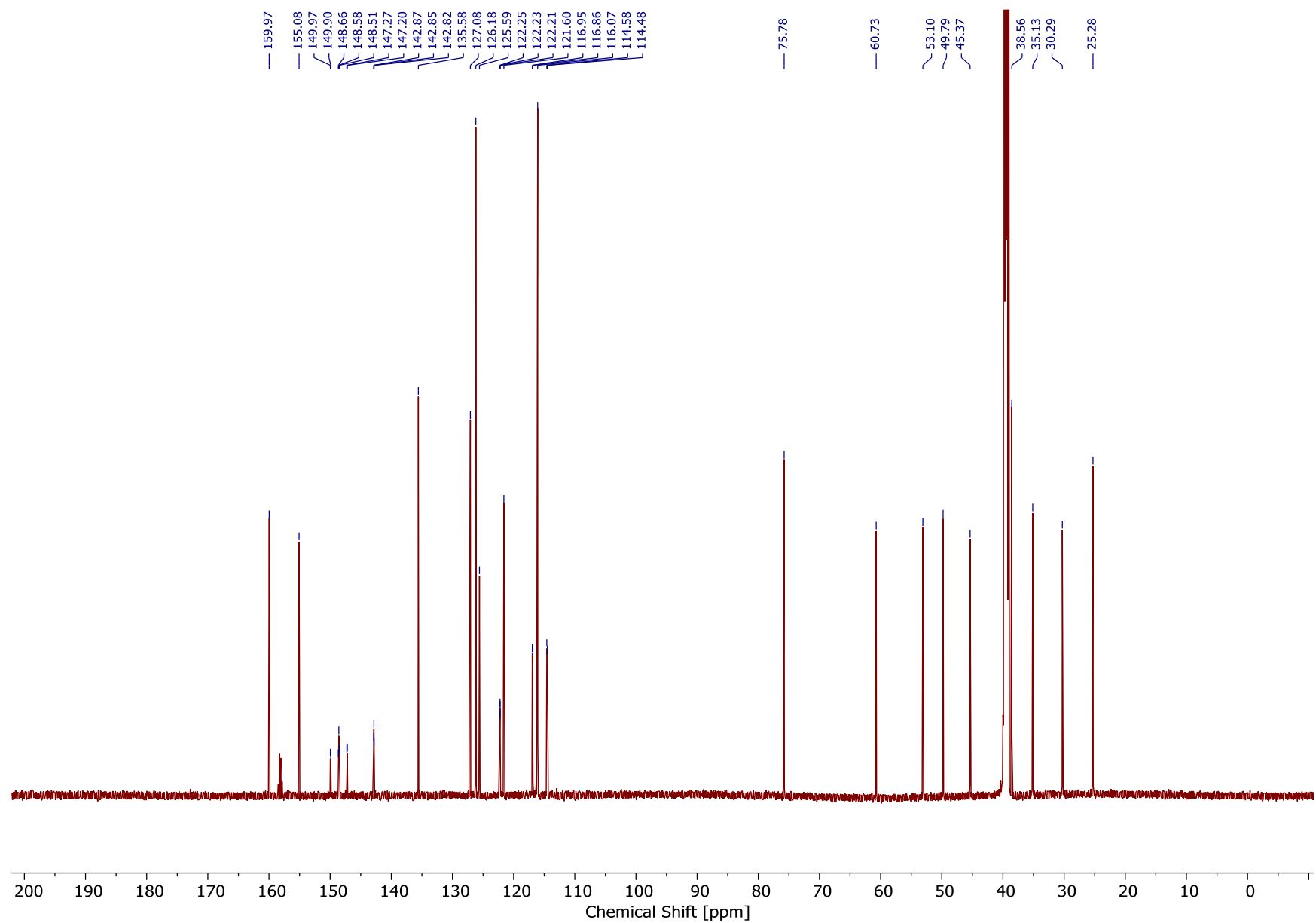
Peak Number	Compound	Time	Area %Total	Mass Found
10	Found	2.76	100.00	426.07

Compound 6:

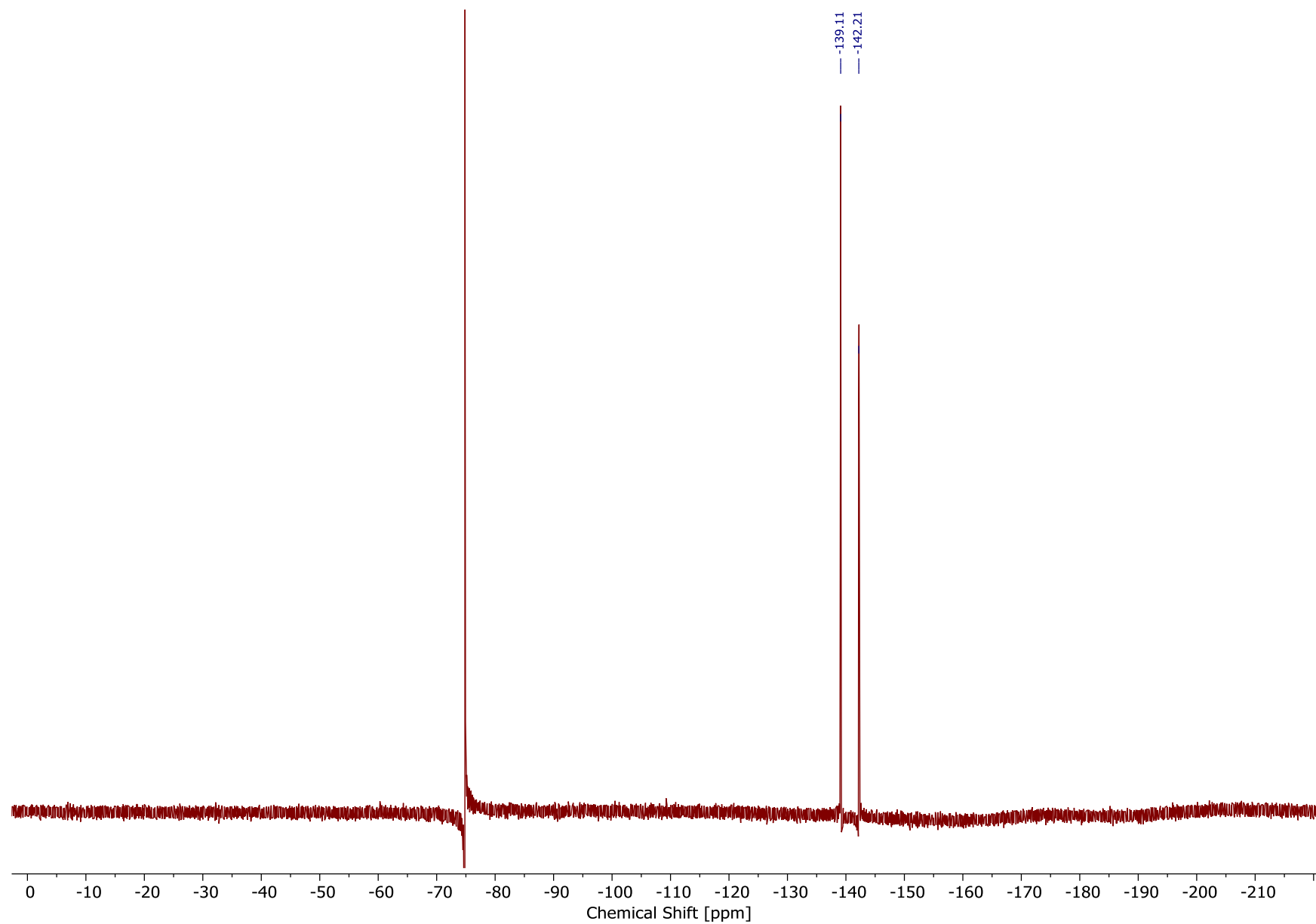
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



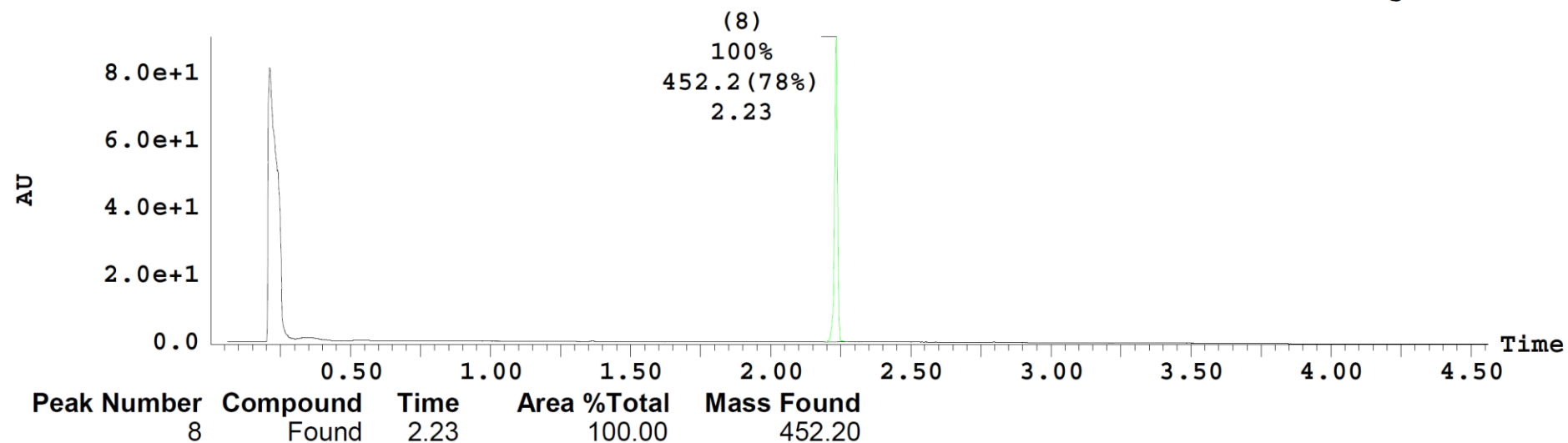
^{19}F



LCMS Chromatogram

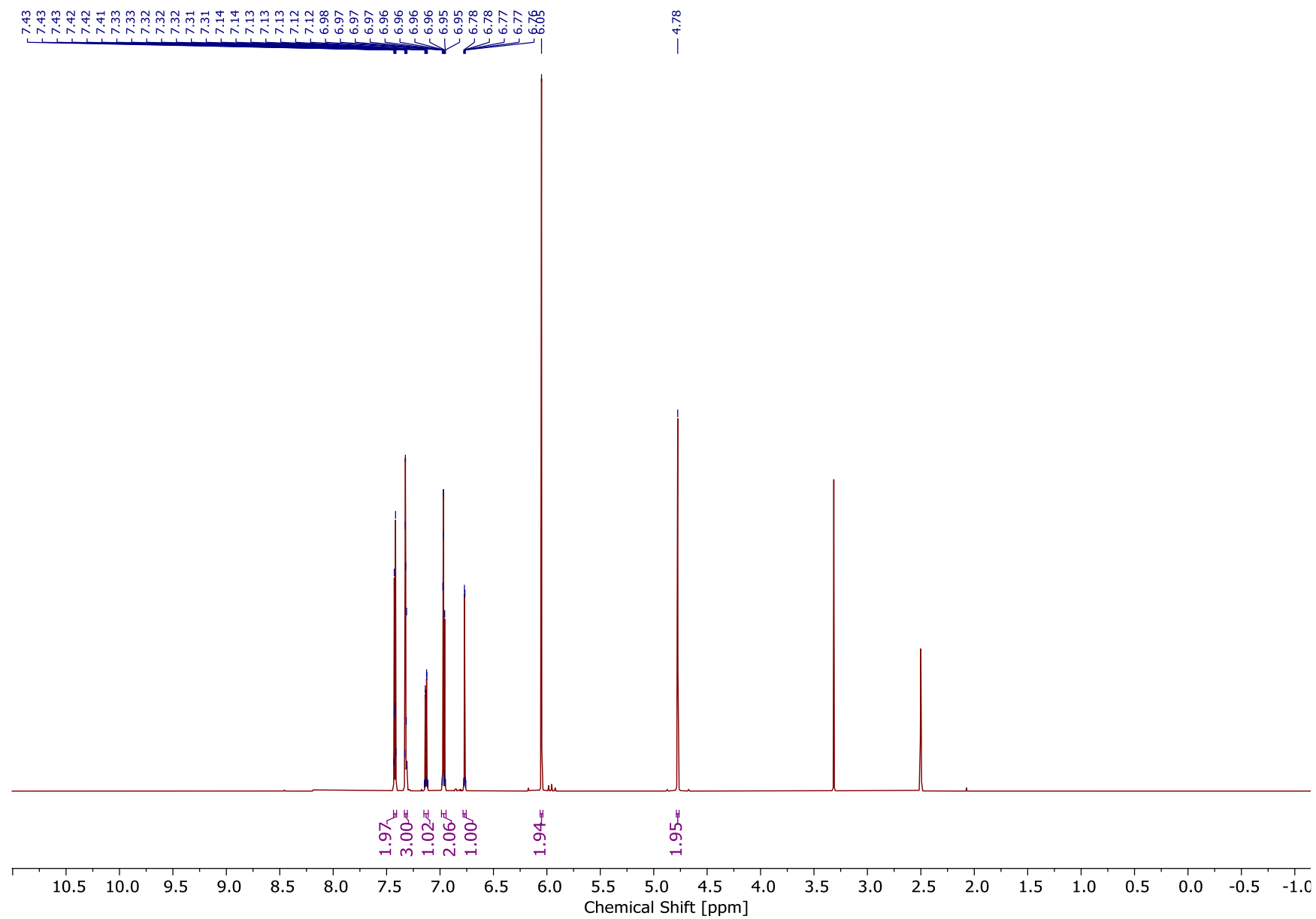
3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

9.074e+1
Range: 9.144e+1

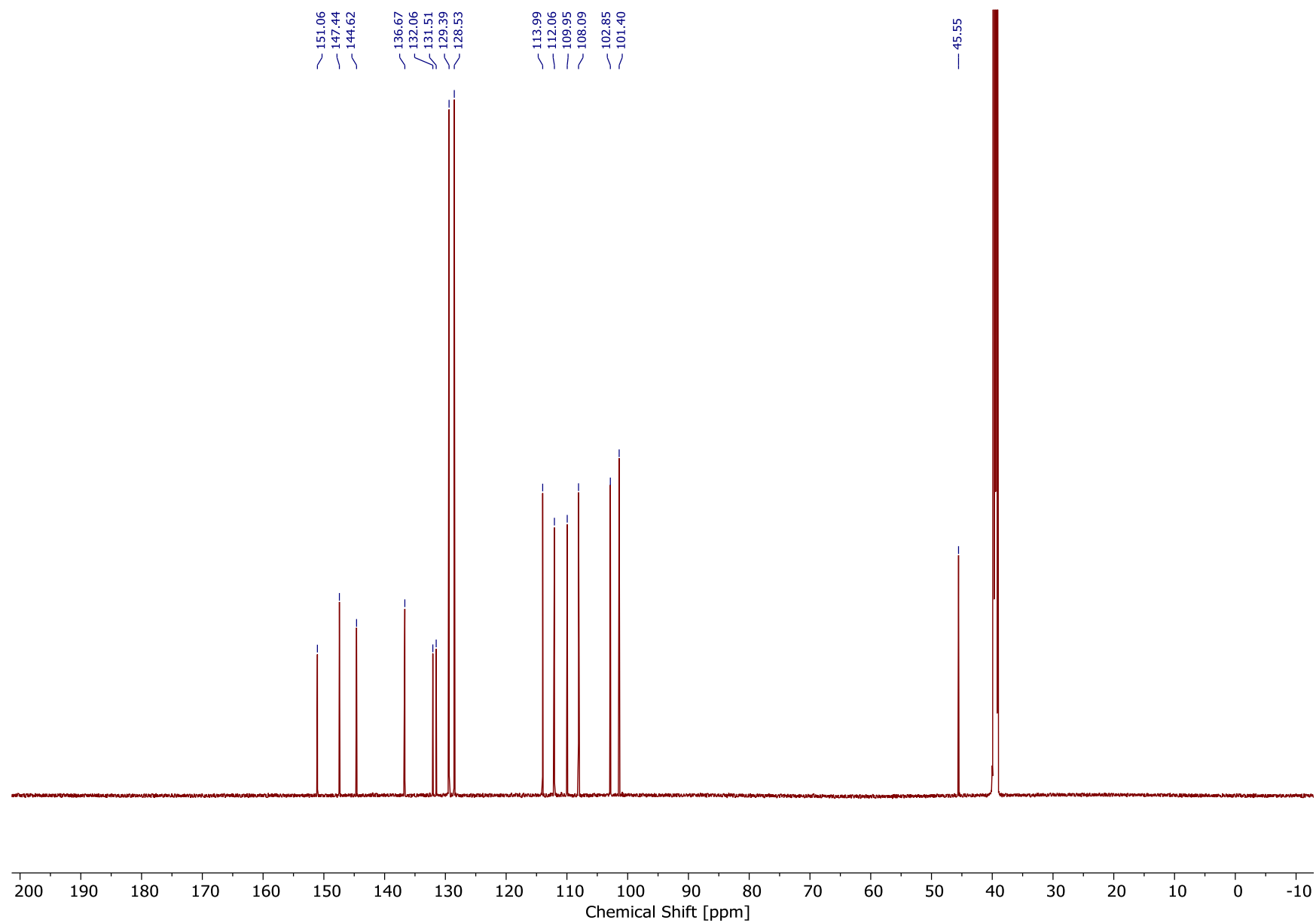


Compound 7:

^1H NMR



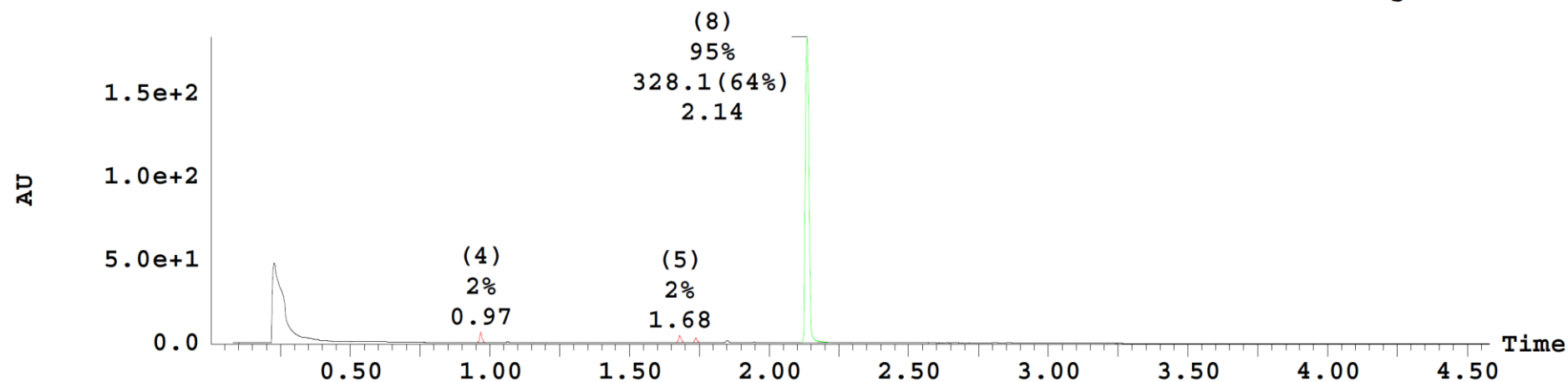
$^{13}\text{C}\{^1\text{H}\}$



LCMS Chromatogram

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2900-4.4800

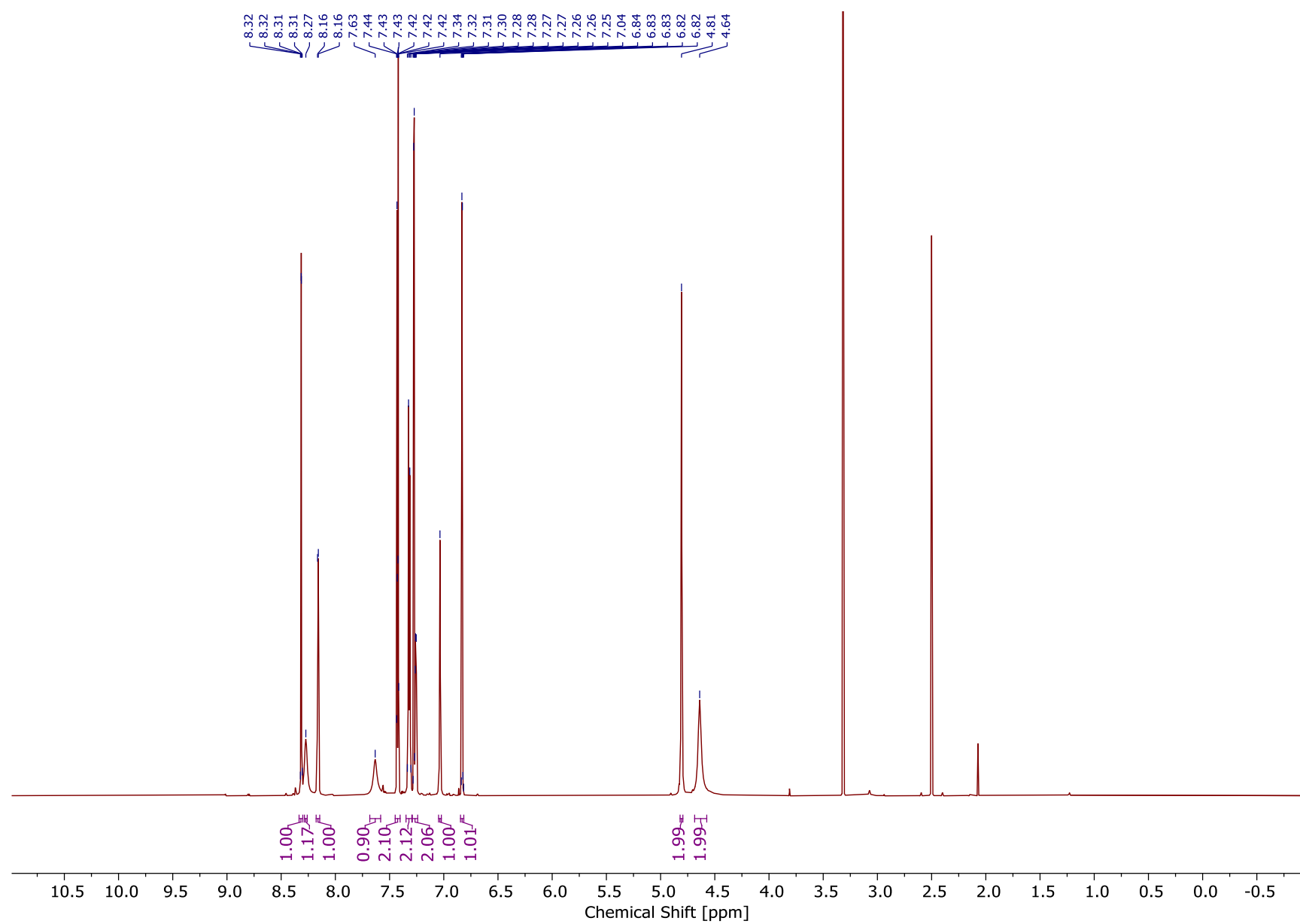
1.835e+2
Range: 1.841e+2



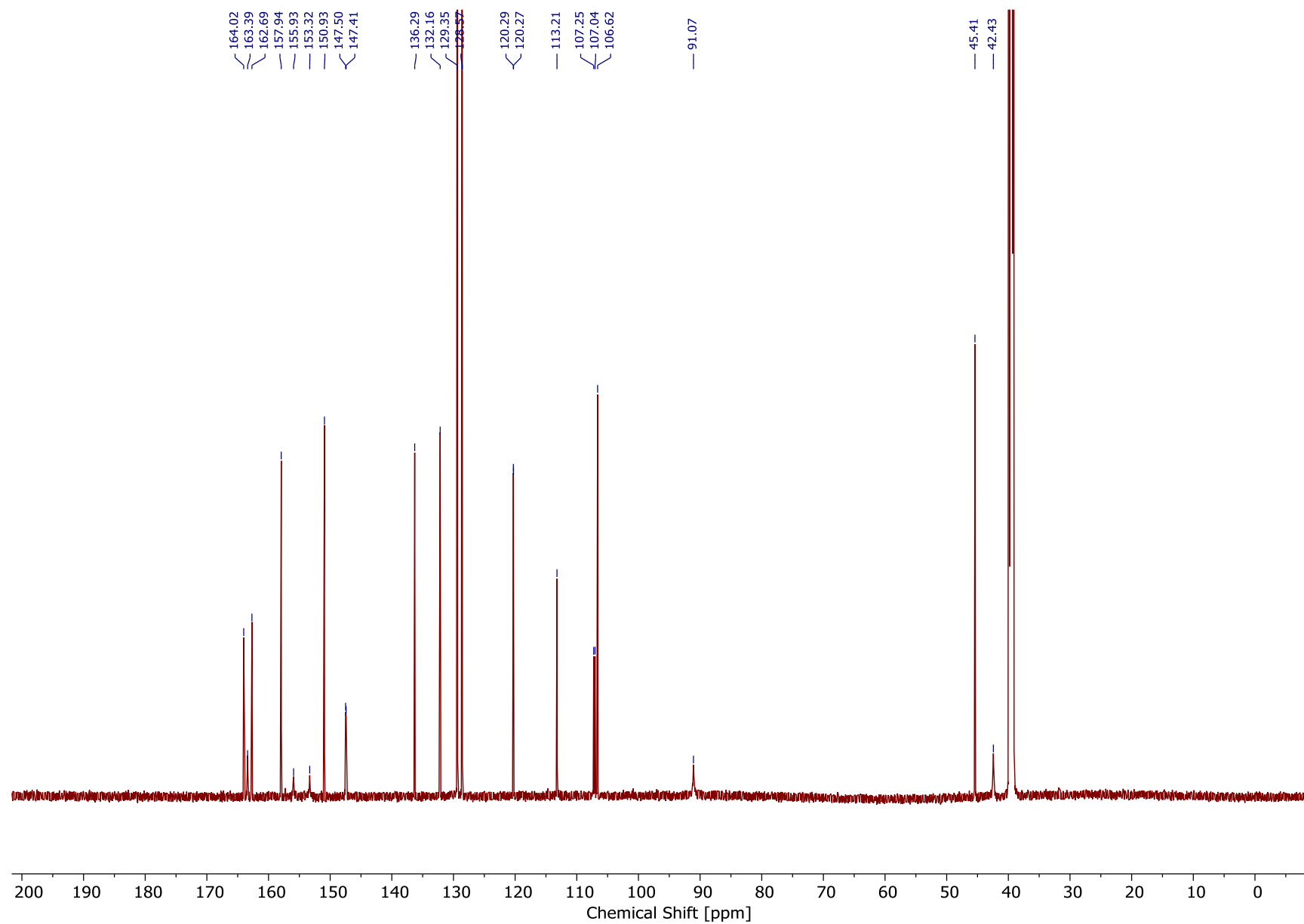
Peak Number	Compound	Time	Area %Total	Mass Found
4		0.97	2.08	Not Found
5		1.68	1.70	Not Found
6		1.74	1.08	Not Found
8	Found	2.14	95.14	328.06

Compound 8:

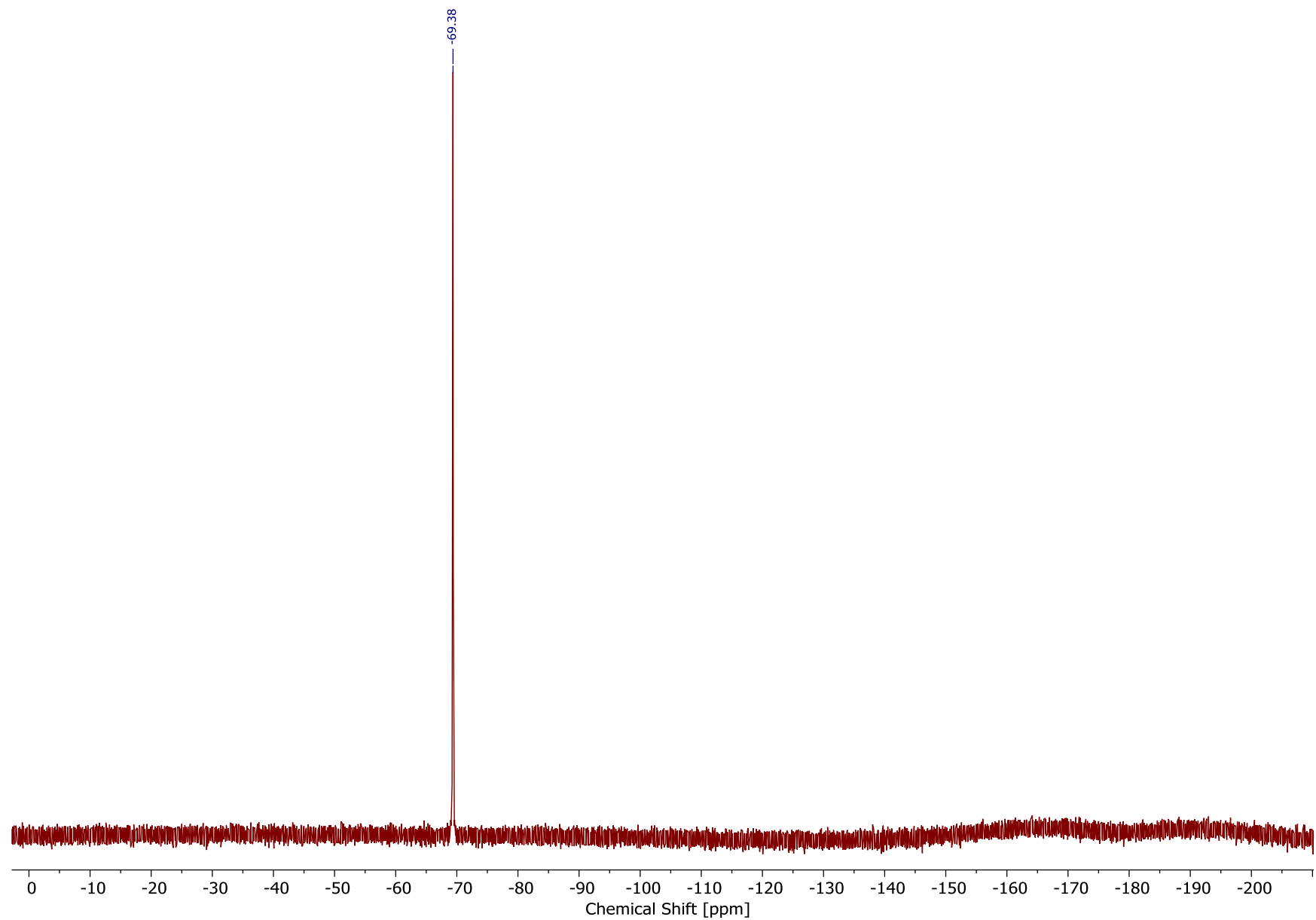
^1H NMR



$^{13}\text{C}\{^1\text{H}\}$



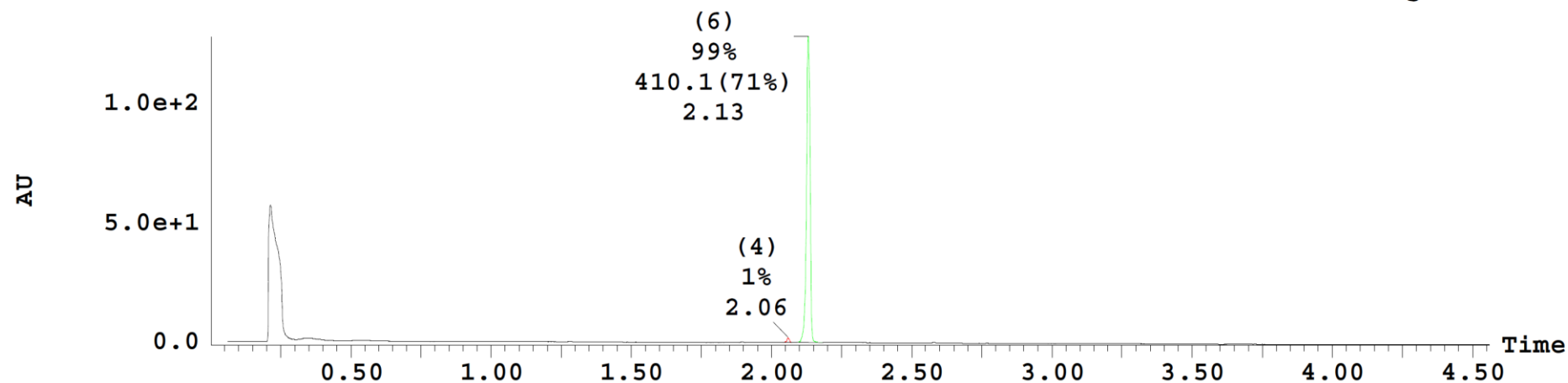
^{19}F



LCMS Chromatogram

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

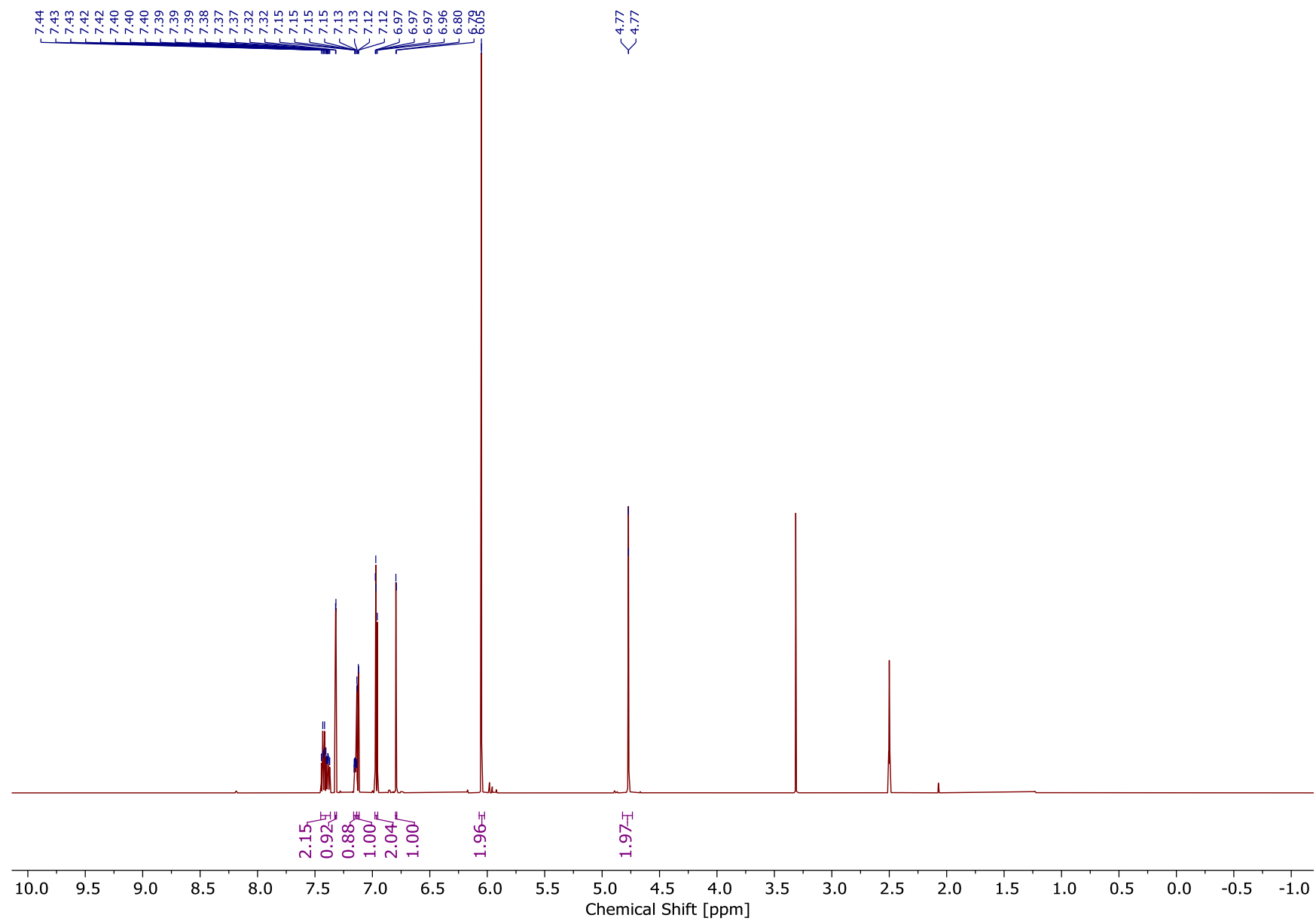
1.277e+2
Range: 1.29e+2



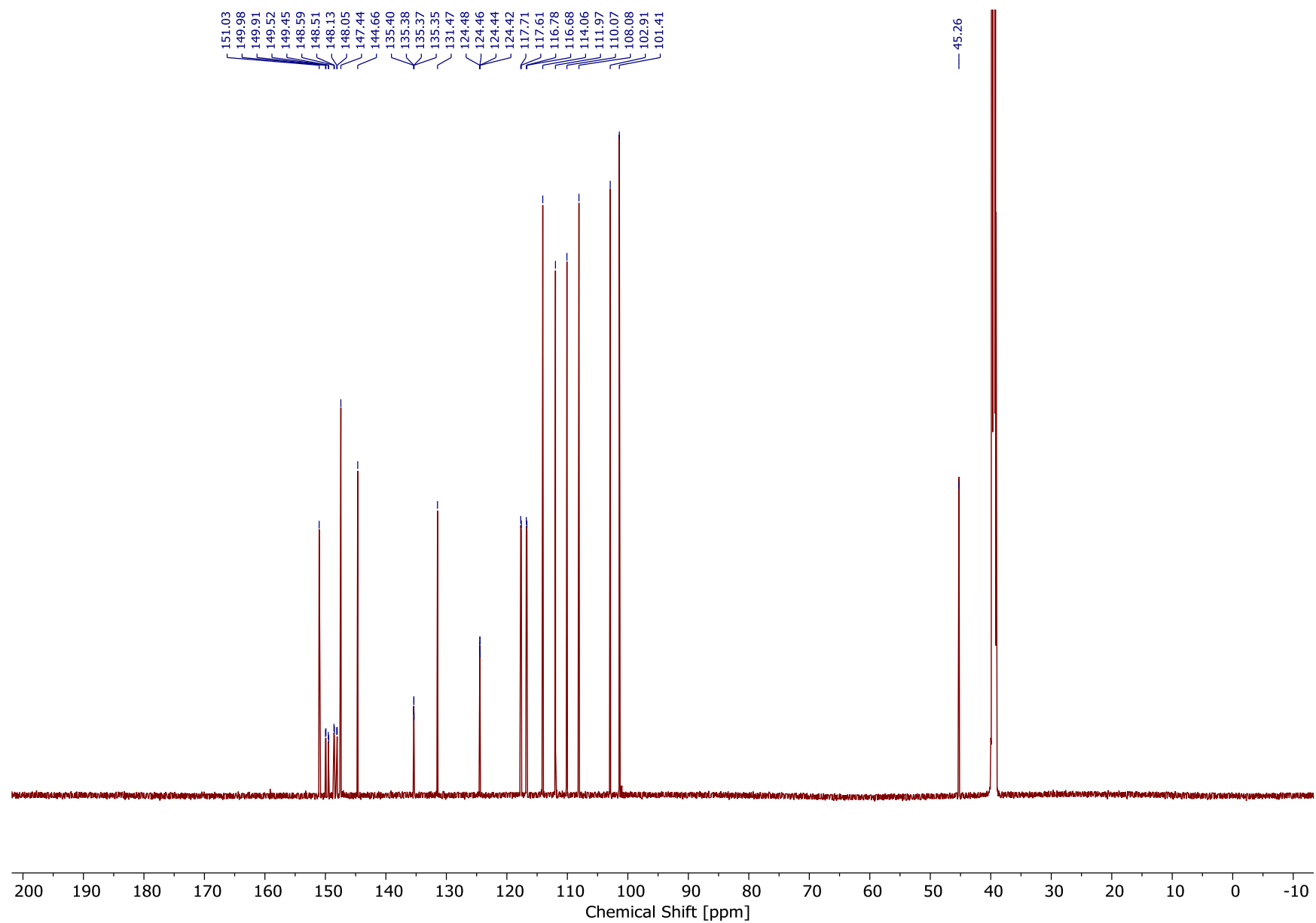
Peak Number	Compound	Time	Area %Total	Mass Found
4		2.06	1.14	Not Found
6	Found	2.13	98.86	410.11

Compound 9:

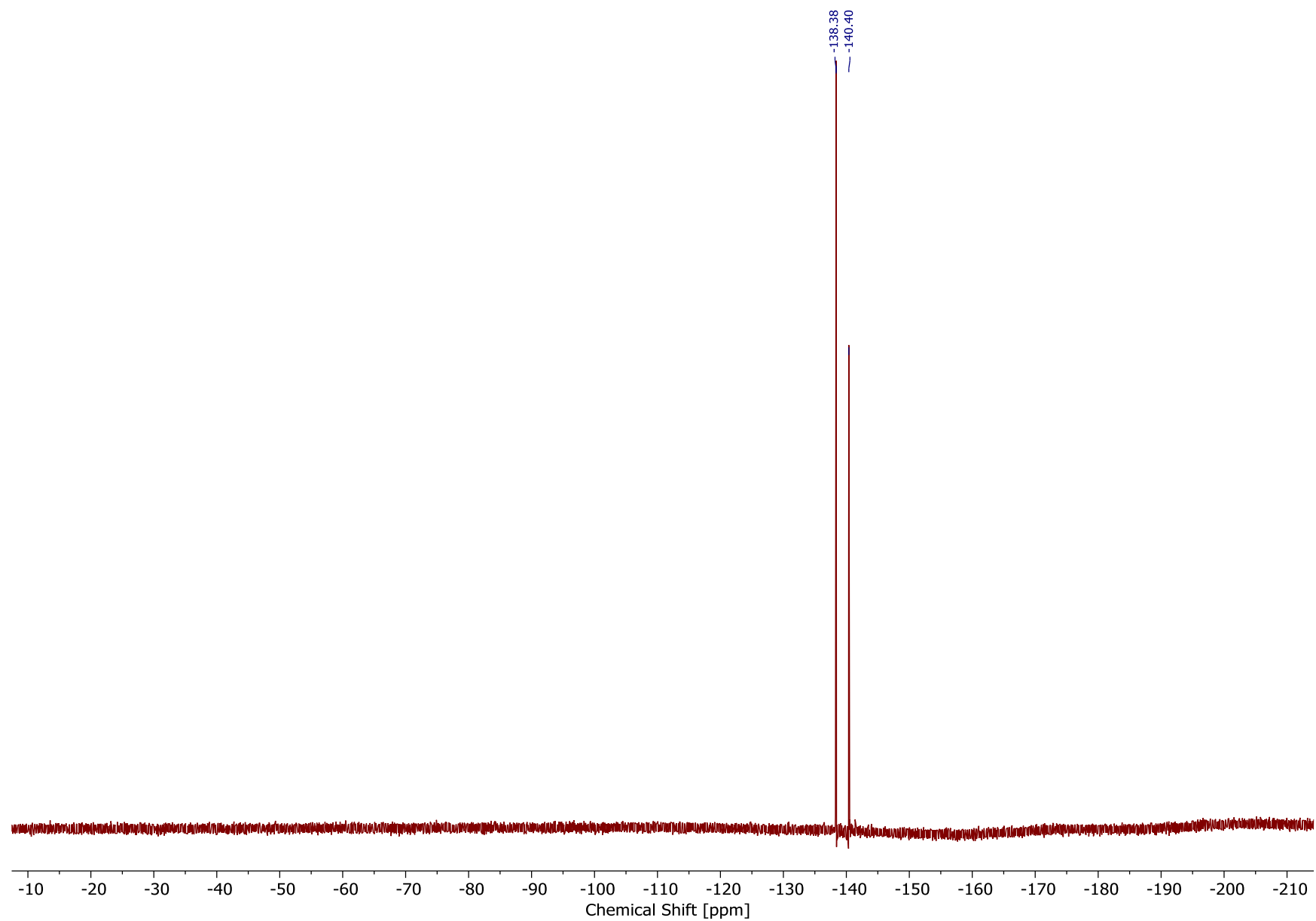
¹H NMR



$^{13}\text{C}\{^1\text{H}\}$



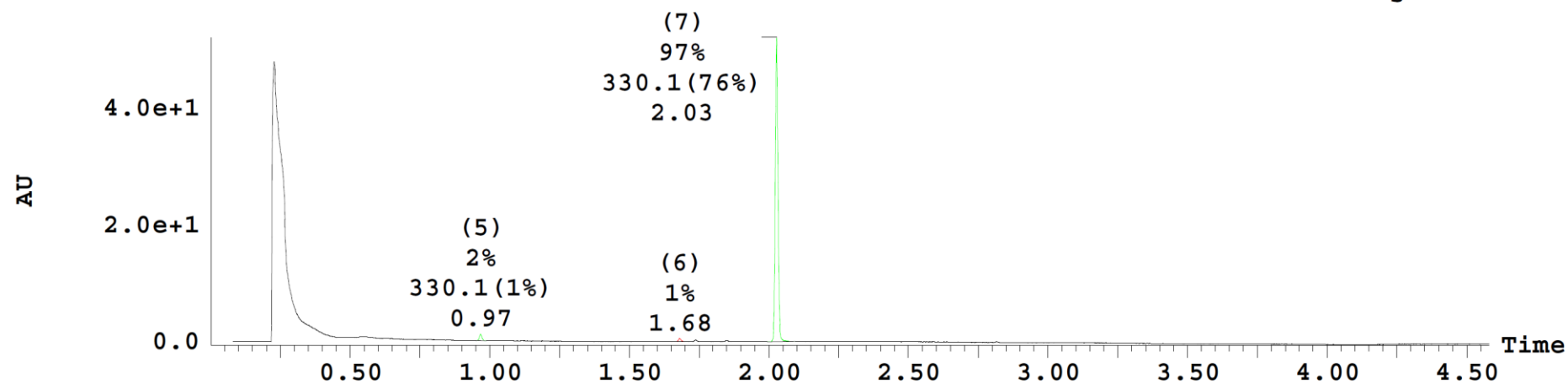
^{19}F



LCMS Chromatogram

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2900-4.4800

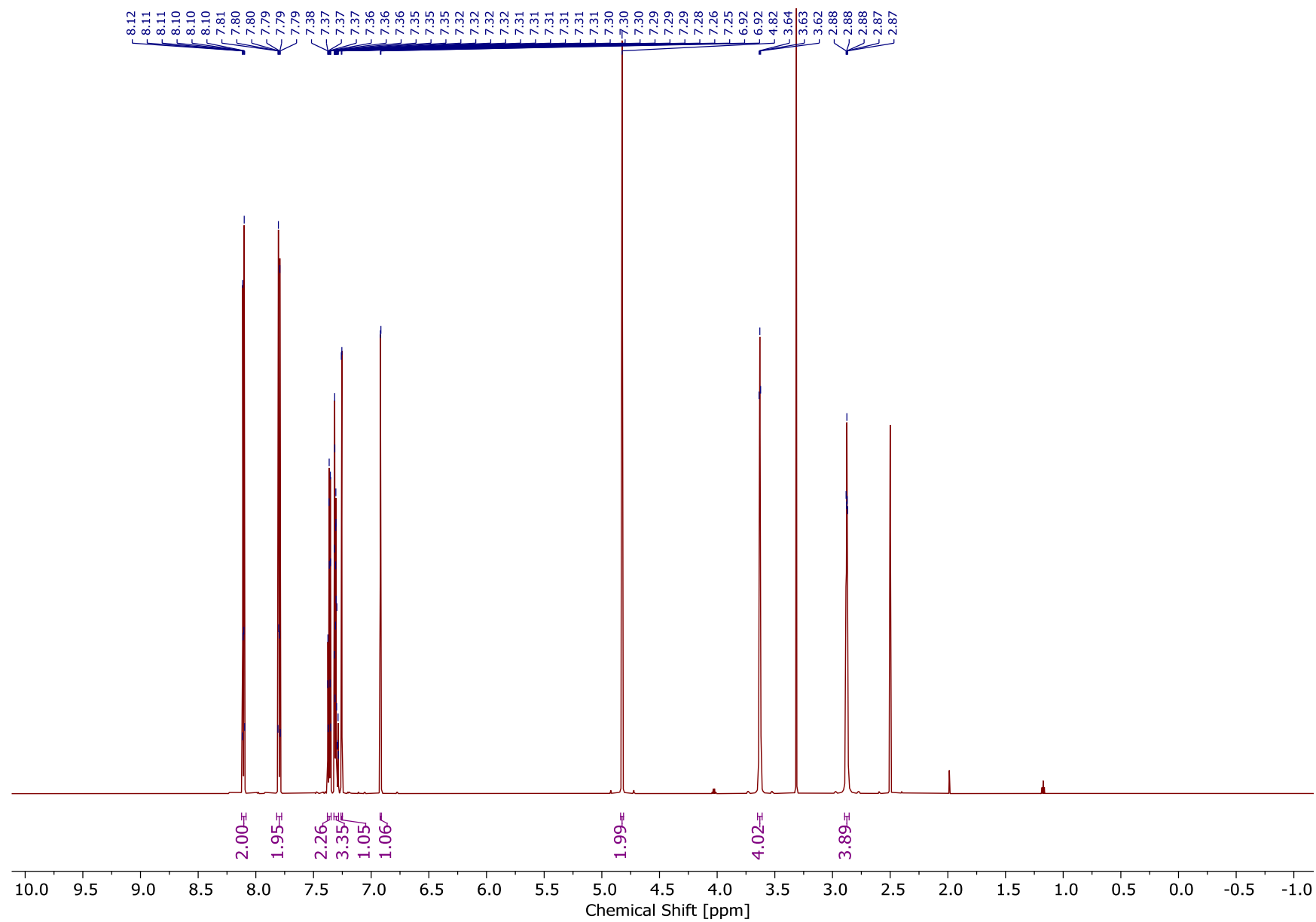
5.204e+1
Range: 5.256e+1



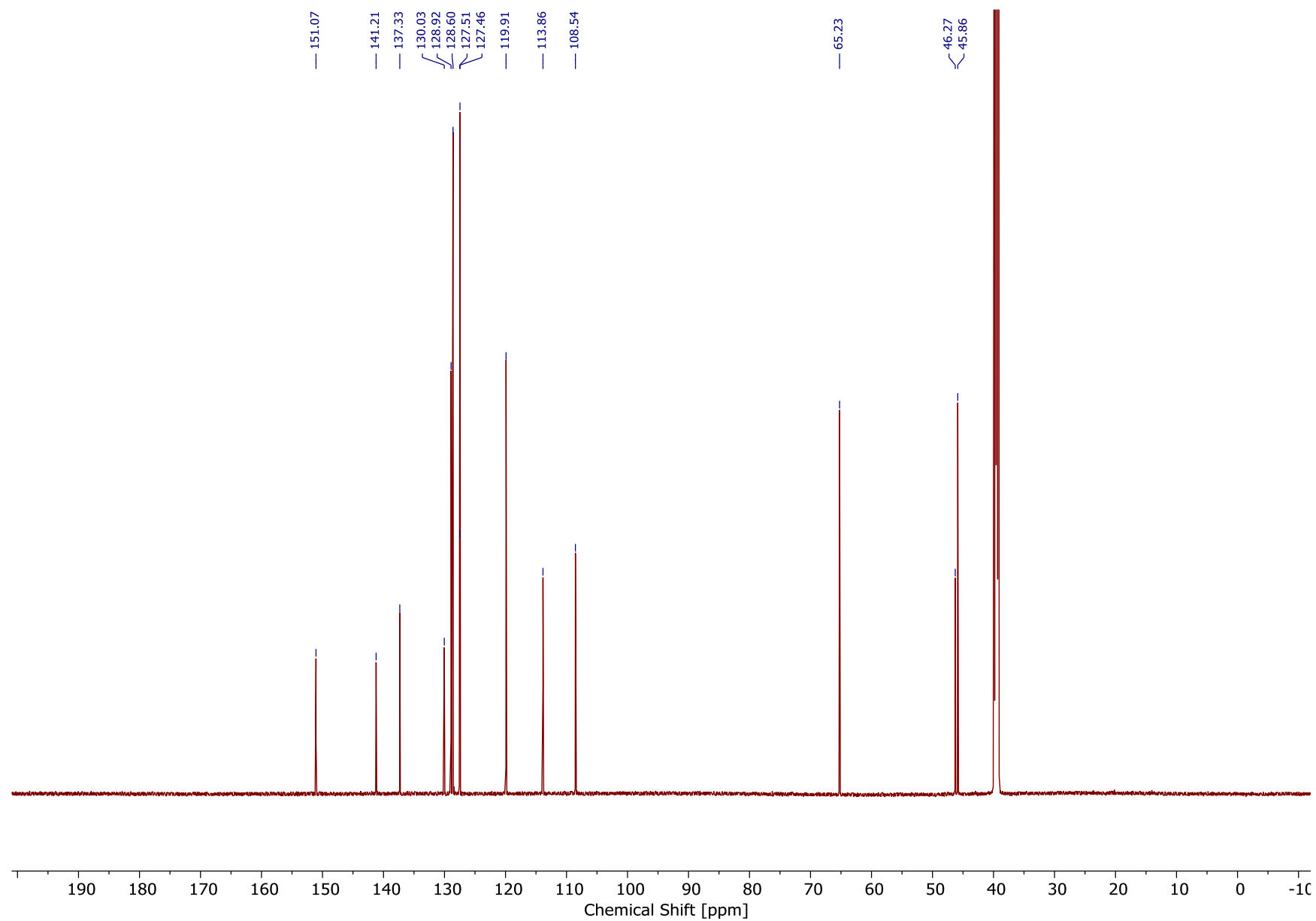
Peak Number	Compound	Time	Area %Total	Mass Found
5	Tentative	0.97	1.89	Found, 330.08
6		1.68	1.23	Not Found
7	Found	2.03	96.88	330.08

Compound 10:

^1H NMR



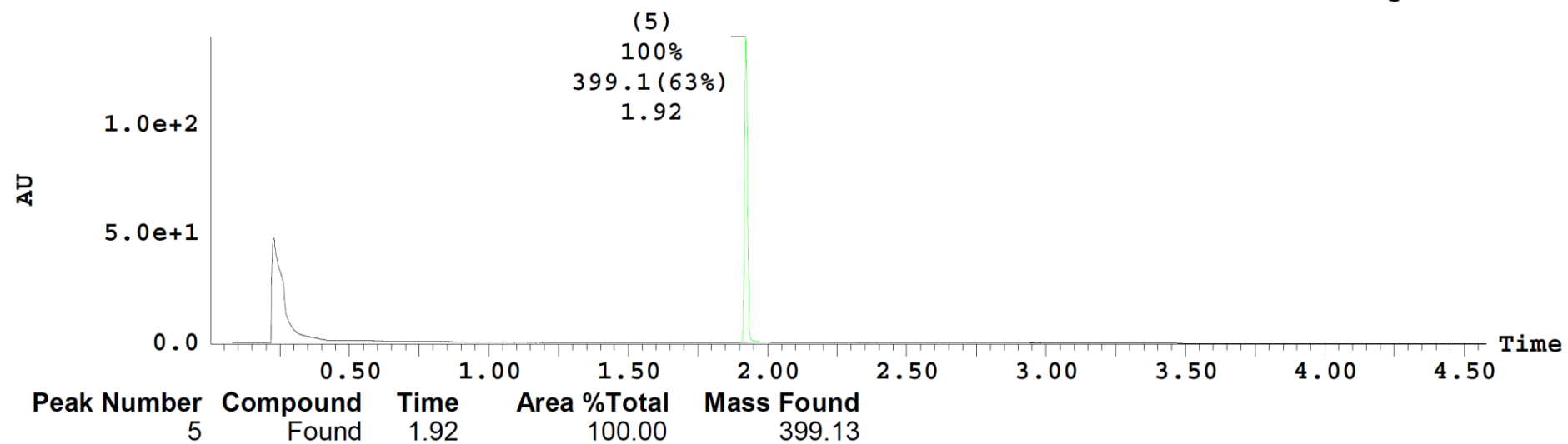
$^{13}\text{C}\{^1\text{H}\}$



LCMS Chromatogram

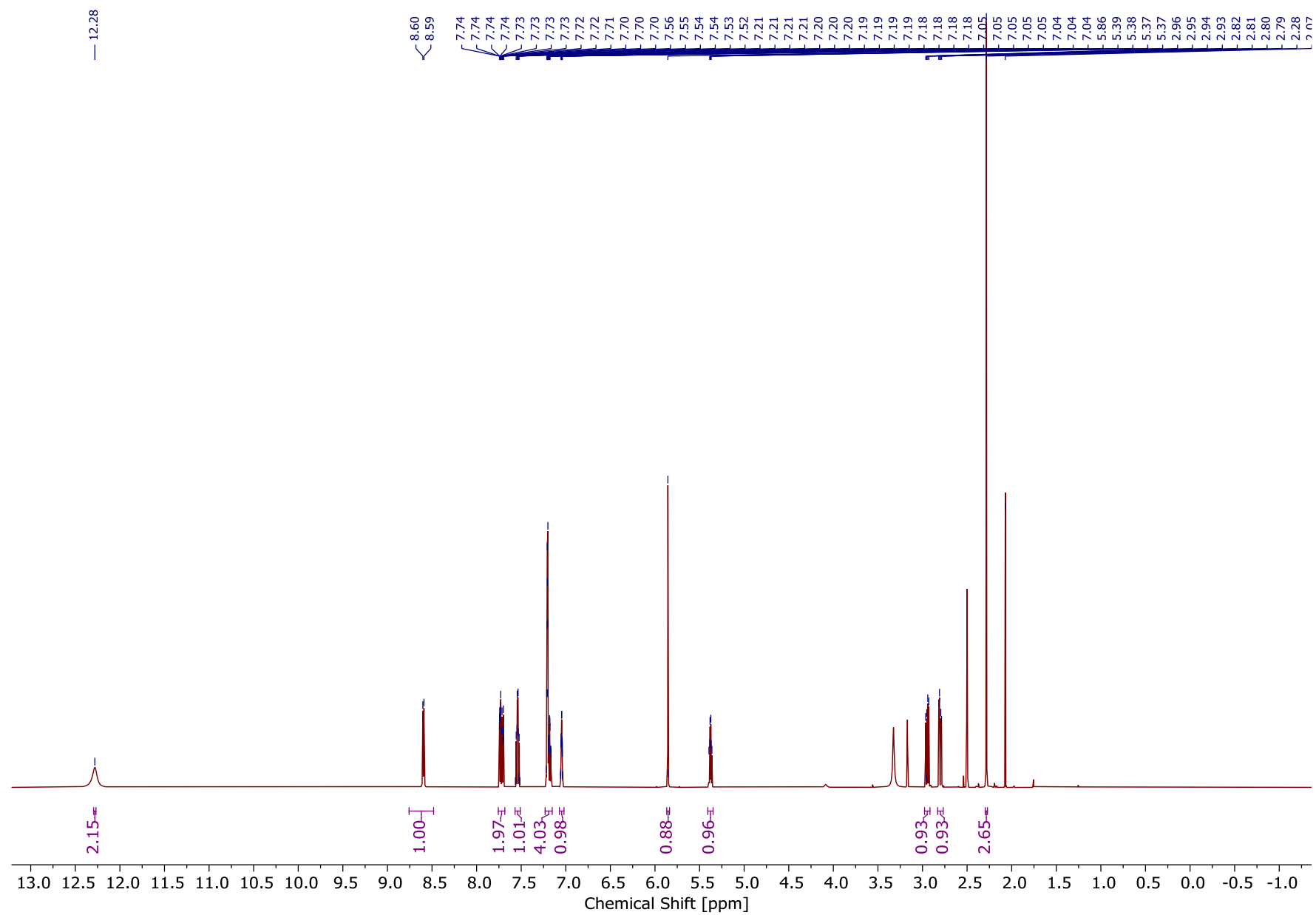
3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2900-4.4800

1.397e+2
Range: 1.402e+2

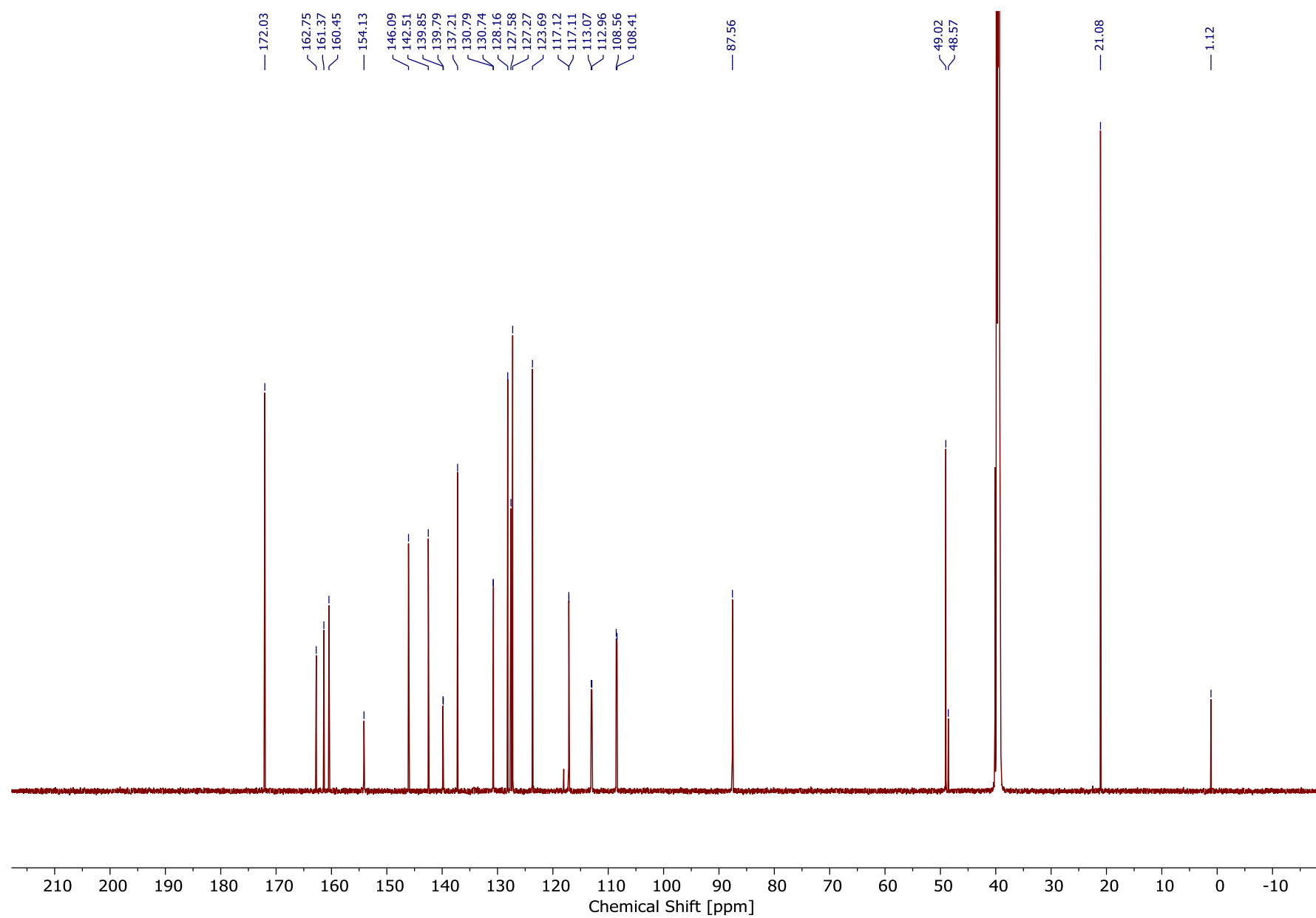


Compound 11:

¹H NMR



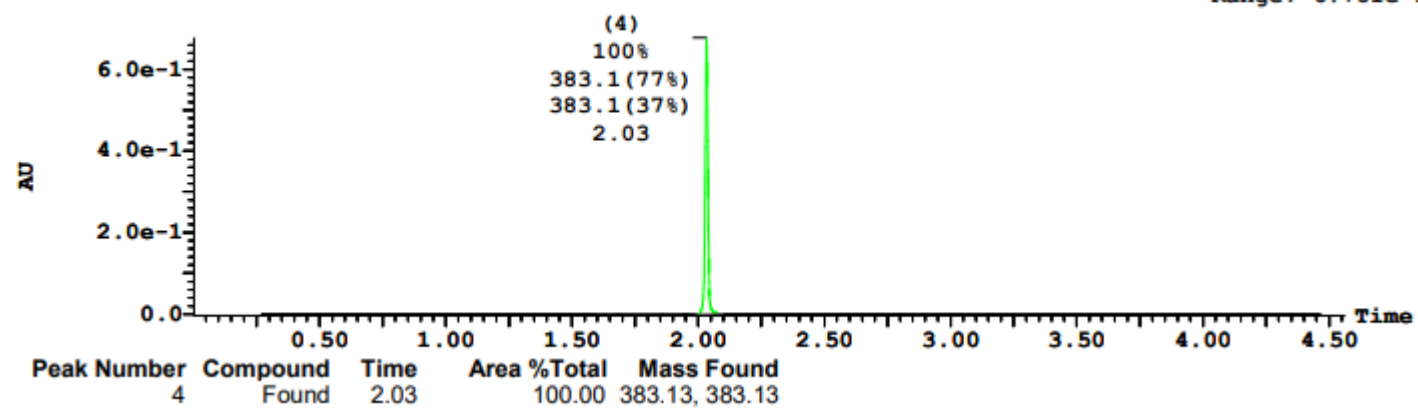
$^{13}\text{C}\{^1\text{H}\}$ -NMR



LCMS Chromatogram

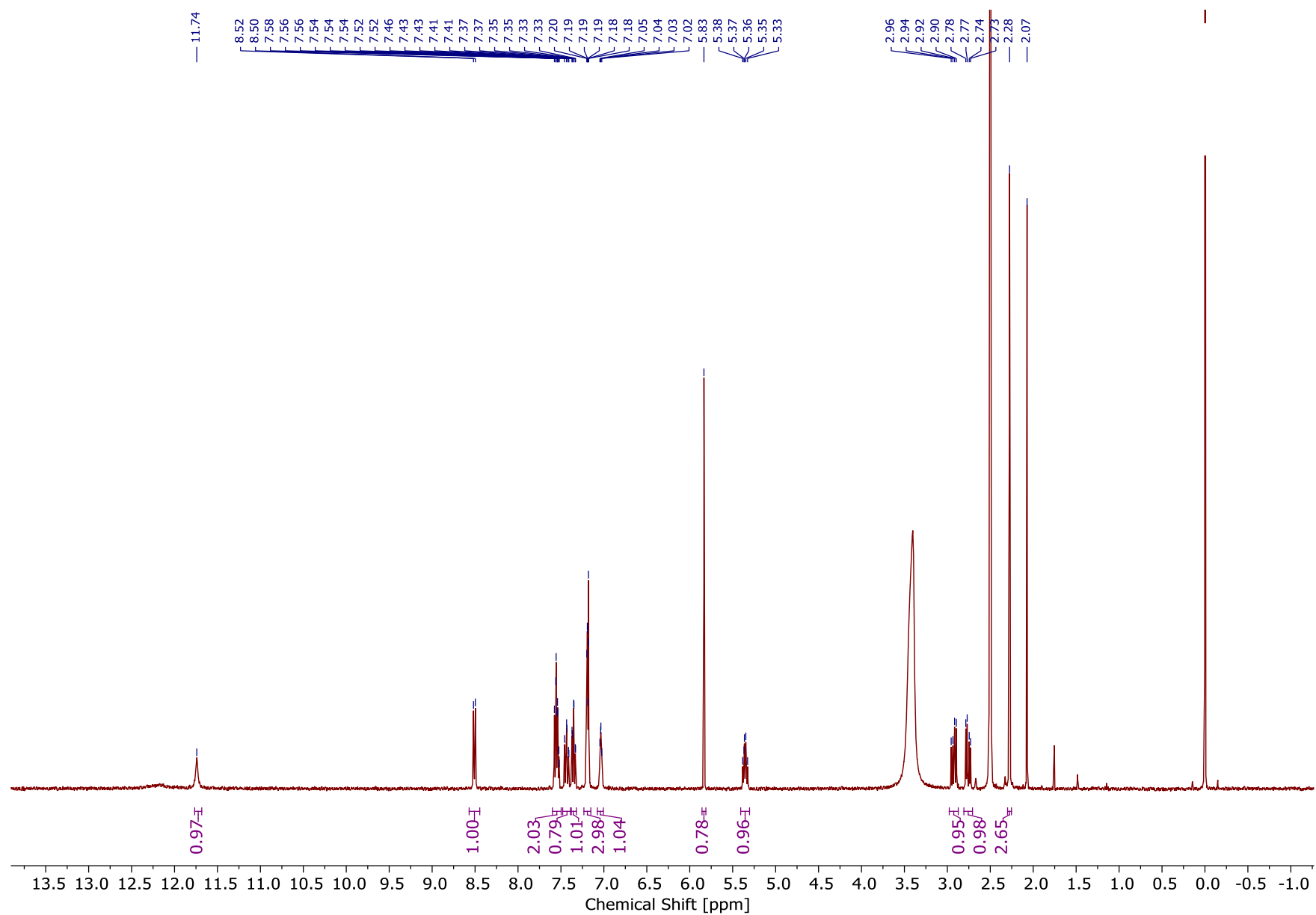
3: UV Detector: 254 Nm 0.7600-4.0600

6.76e-1
Range: 6.781e-1



Compound 12

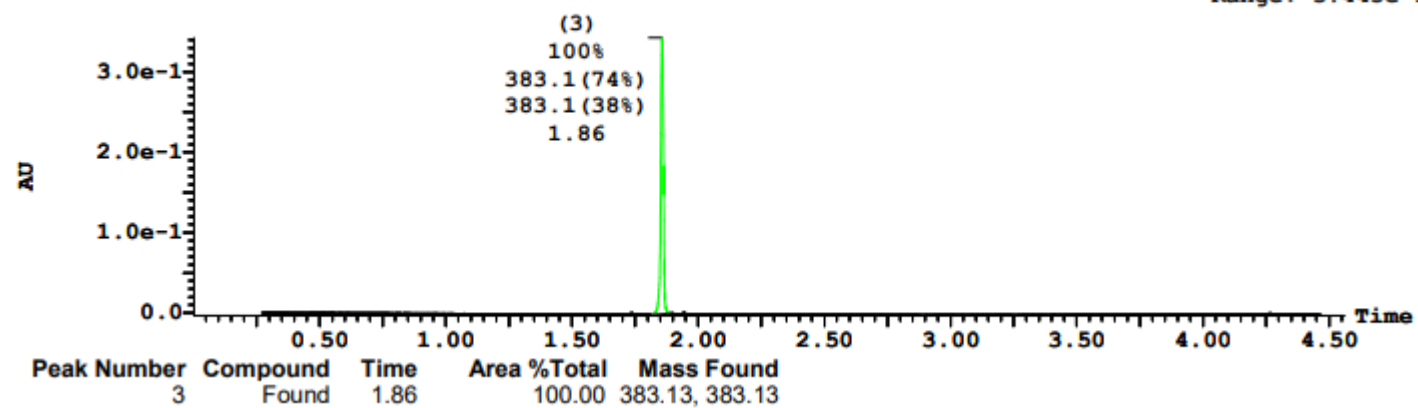
¹H-NMR



LCMS-Chromatogram

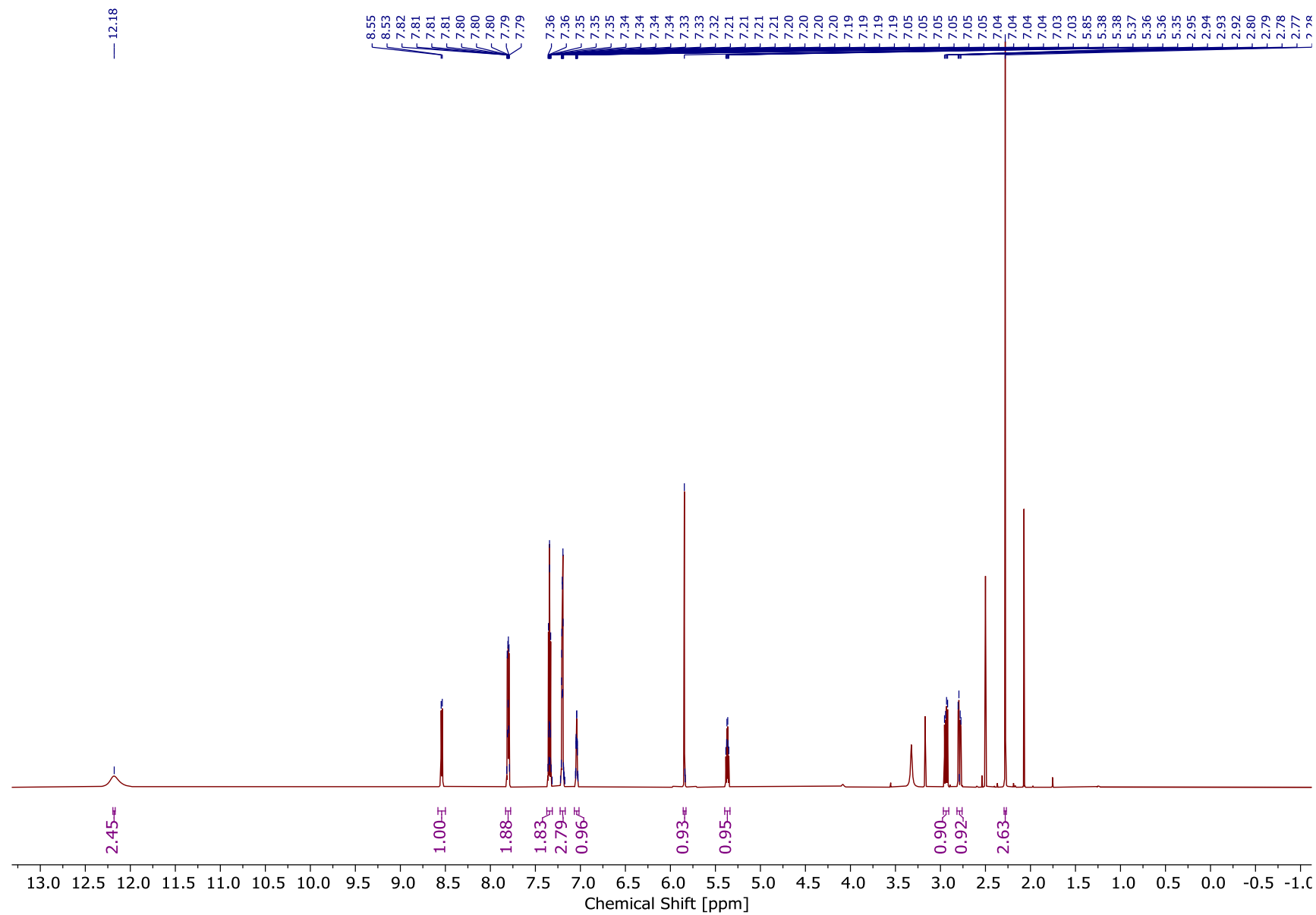
3: UV Detector: 254 Nm 0.7600-4.0600

3.42e-1
Range: 3.445e-1

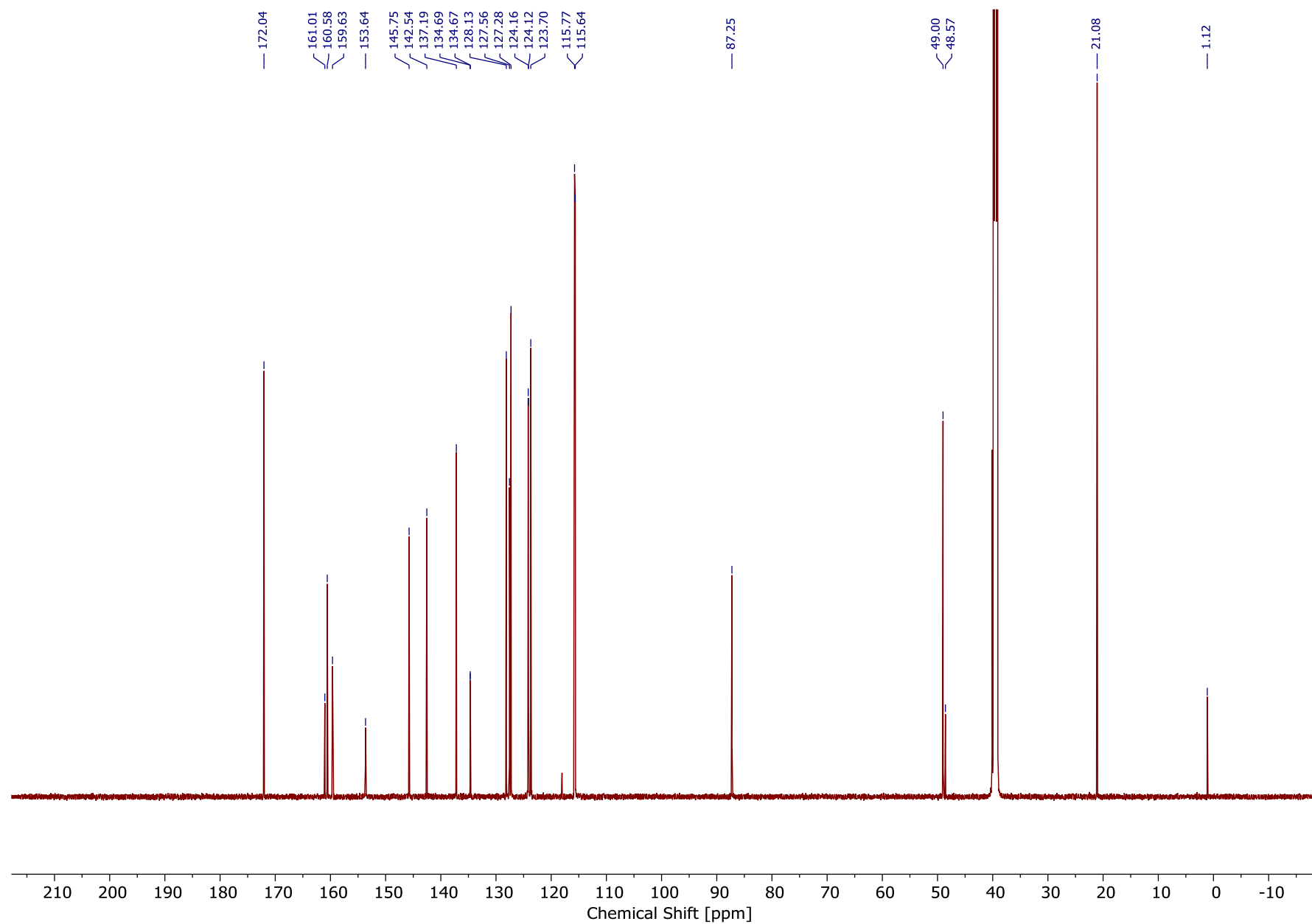


Compound 13

¹H-NMR



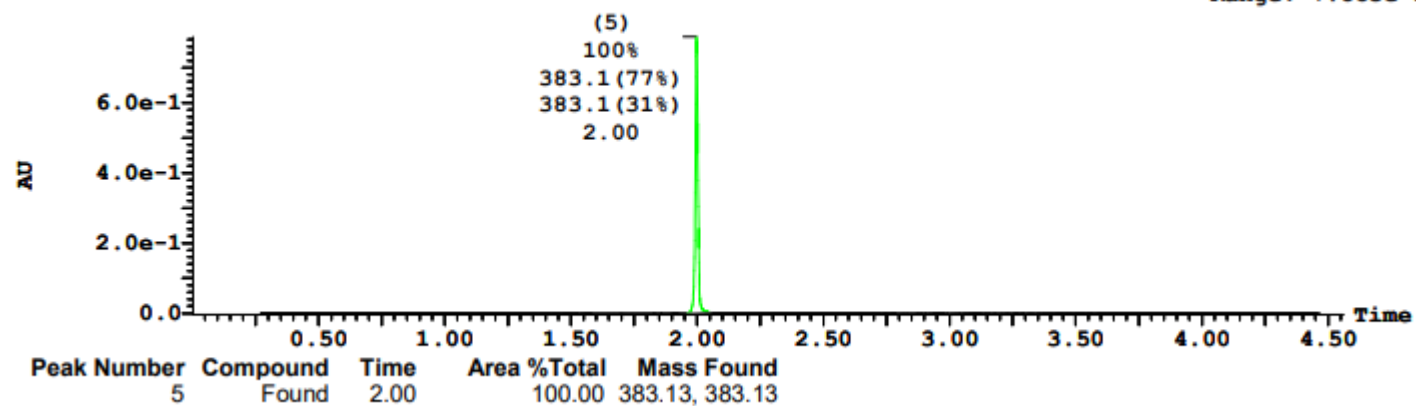
$^{13}\text{C}\{^1\text{H}\}$ NMR



LCMS-Chromatogram

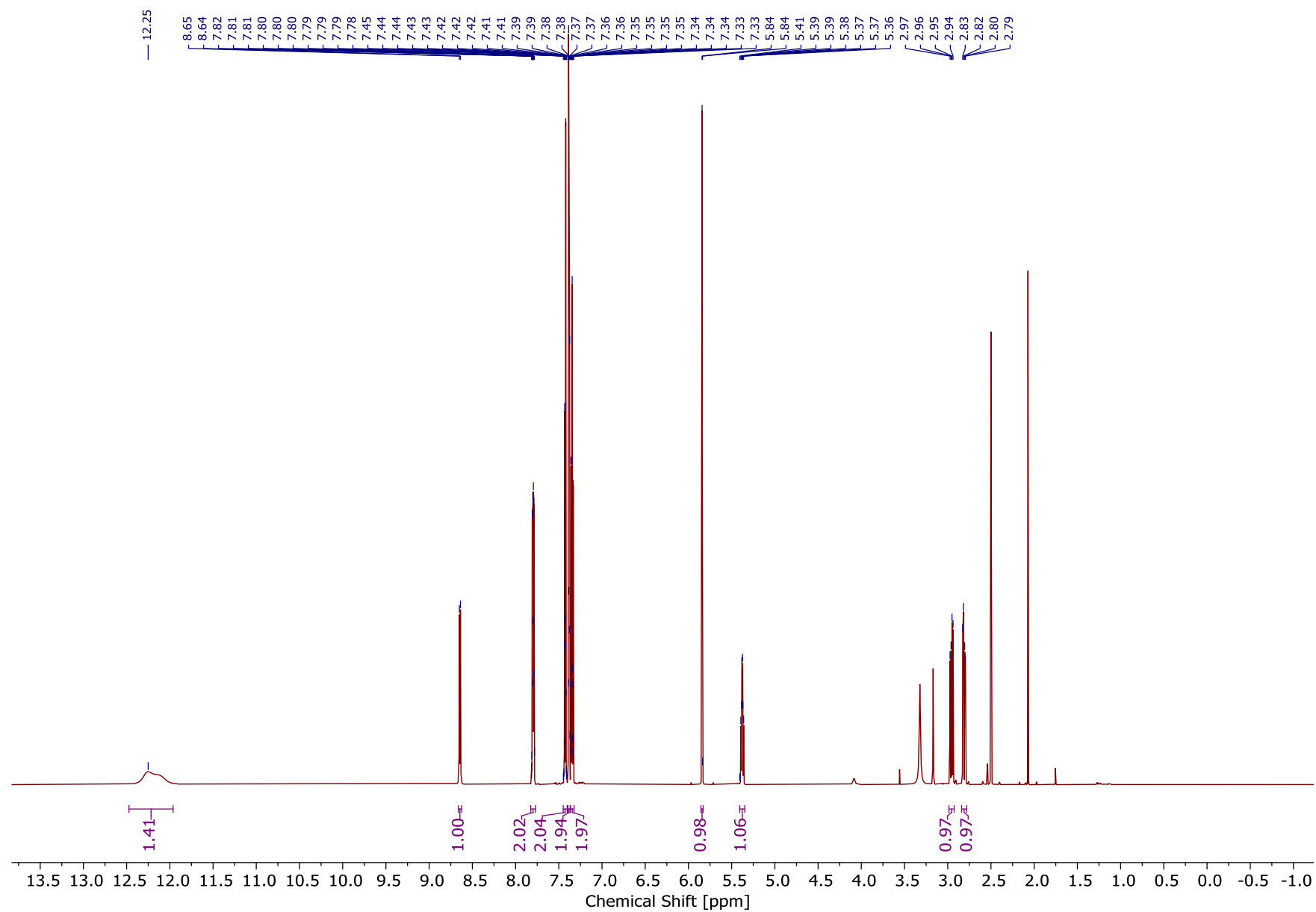
3: UV Detector: 254 Nm 0.7600-4.0600

7.866e-1
Range: 7.885e-1

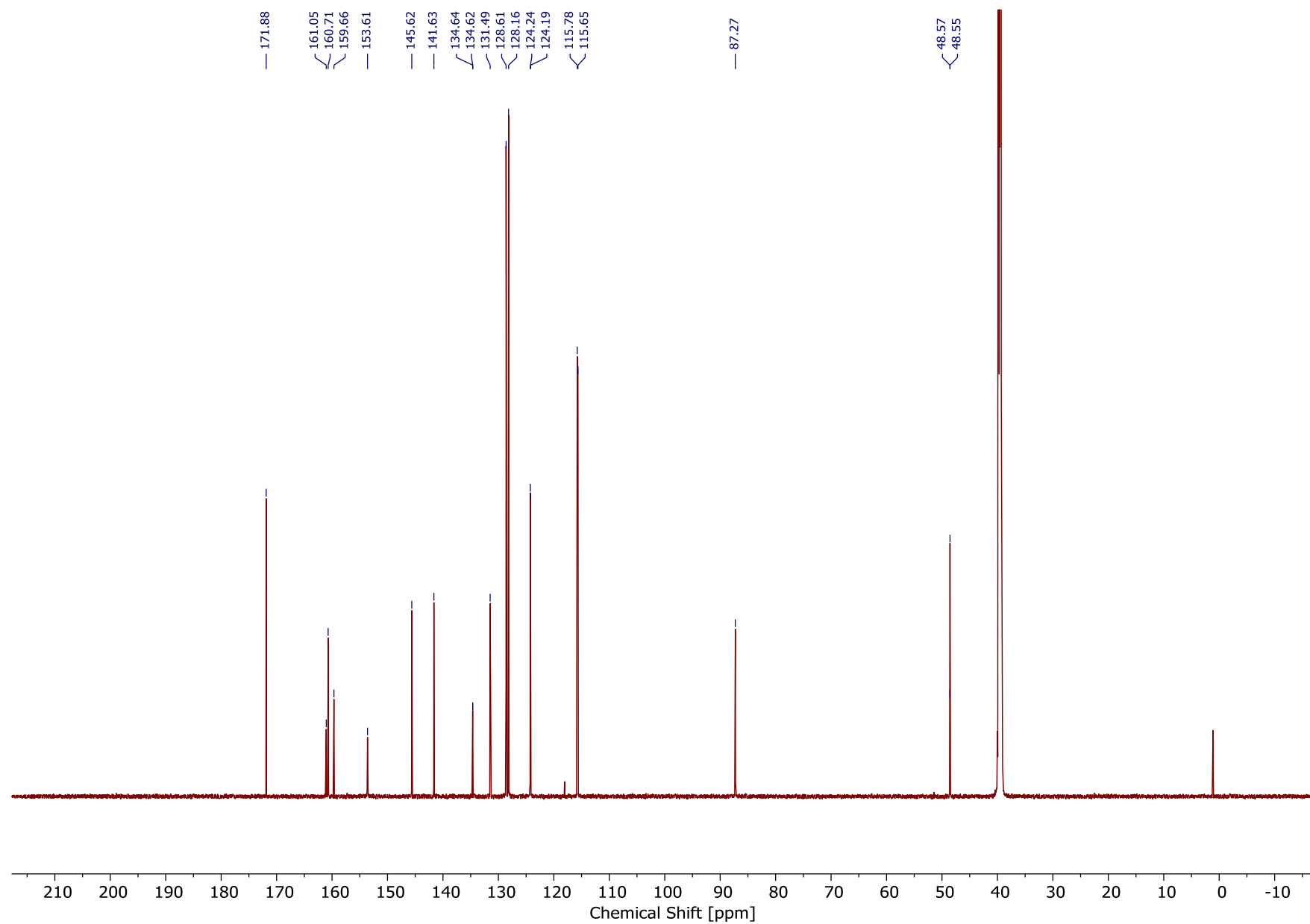


Compound 14

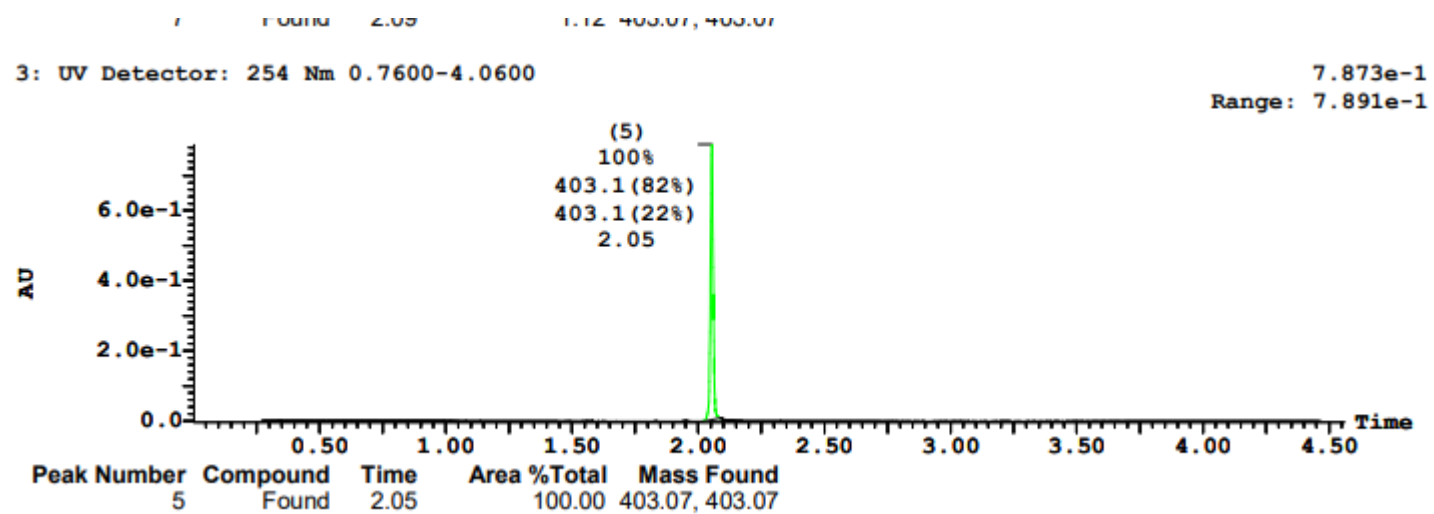
¹H-NMR:



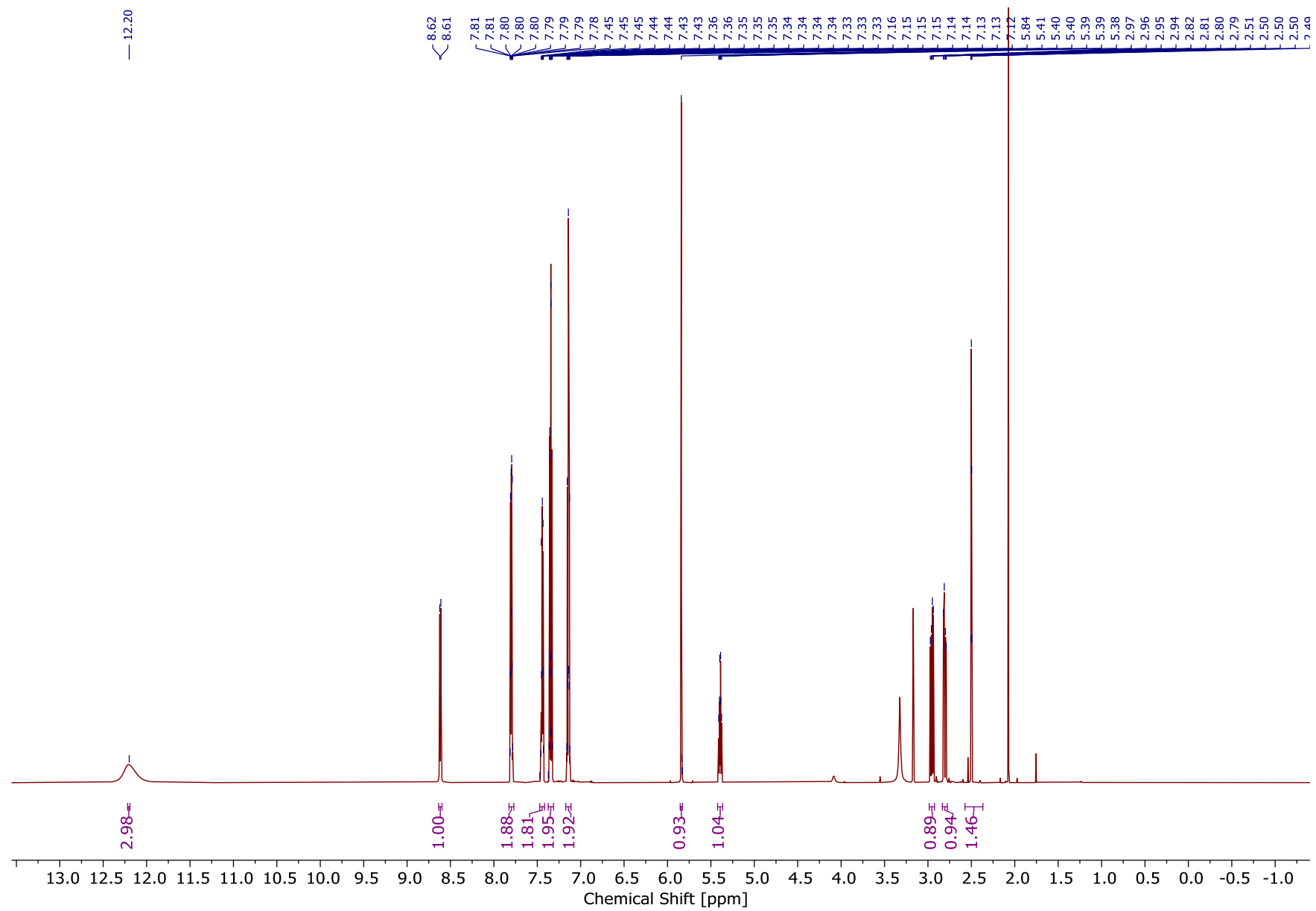
$^{13}\text{C}\{^1\text{H}\}$ NMR:



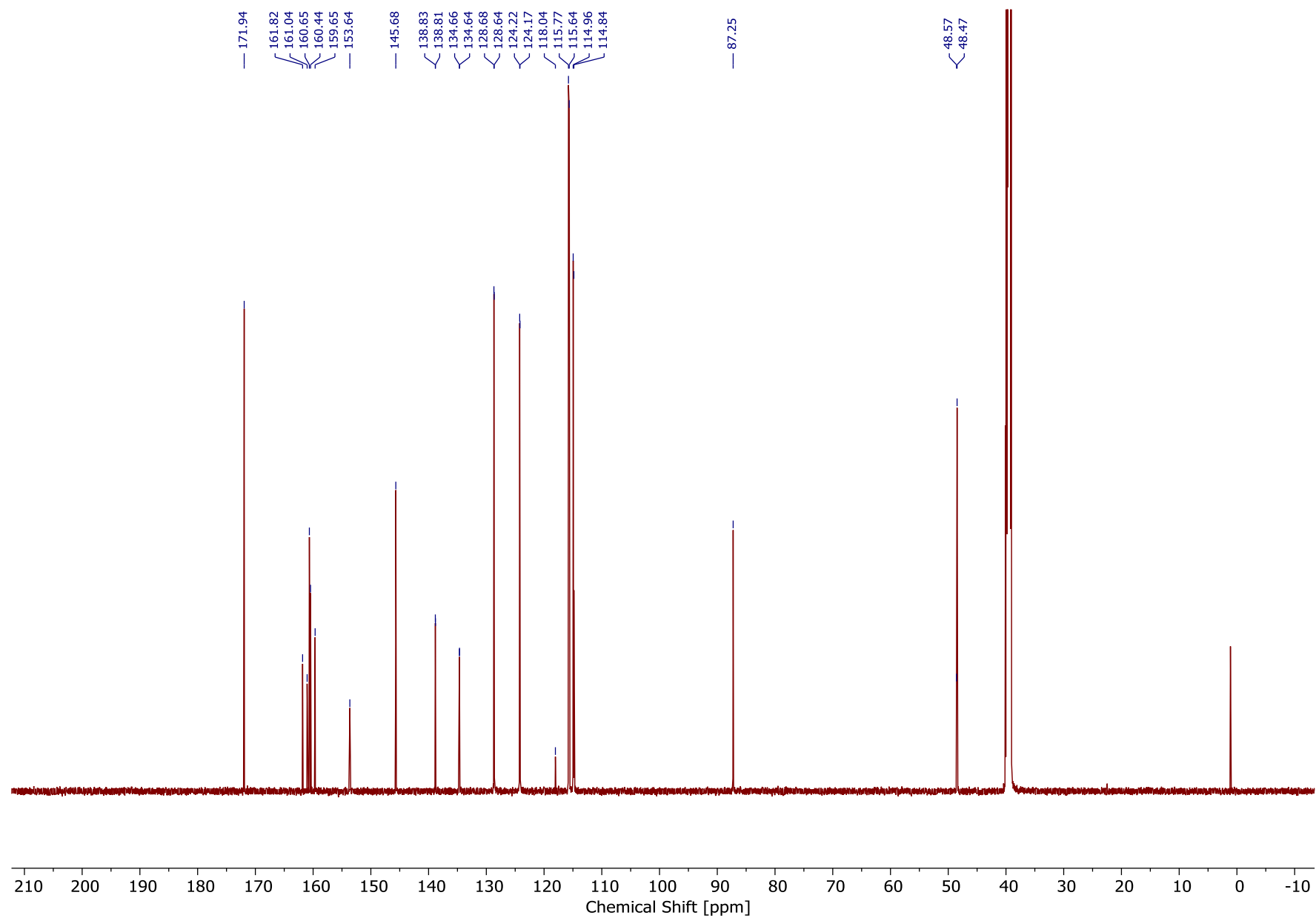
LCMS-Chromatogram:



1H-NMR



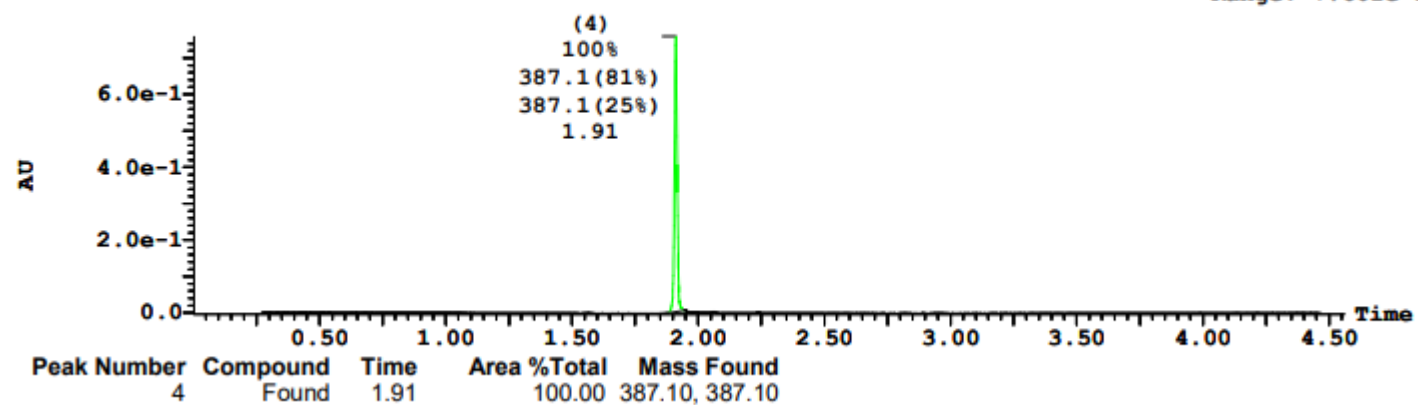
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

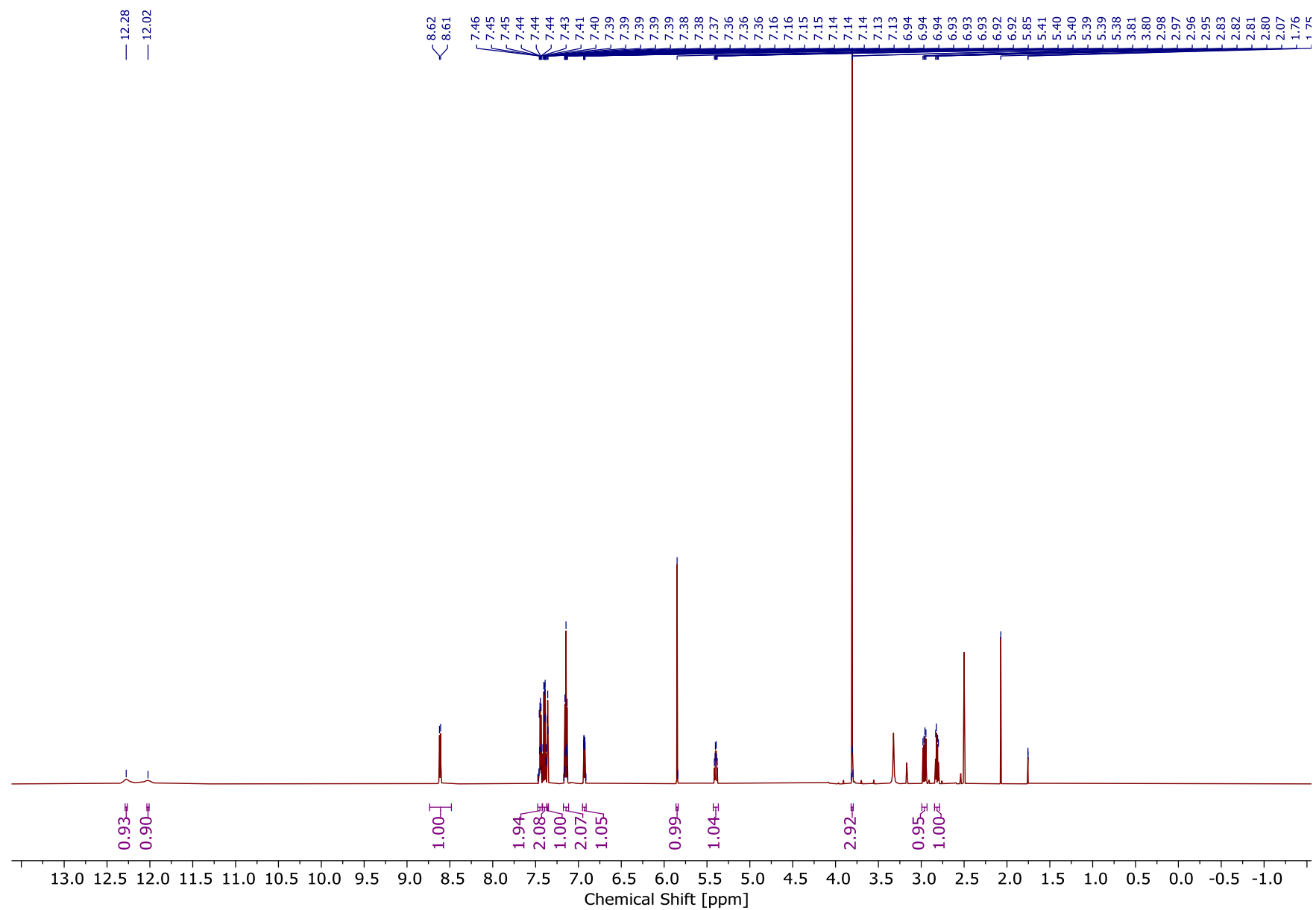
3: UV Detector: 254 Nm 0.7600-4.0600

7.581e-1
Range: 7.601e-1

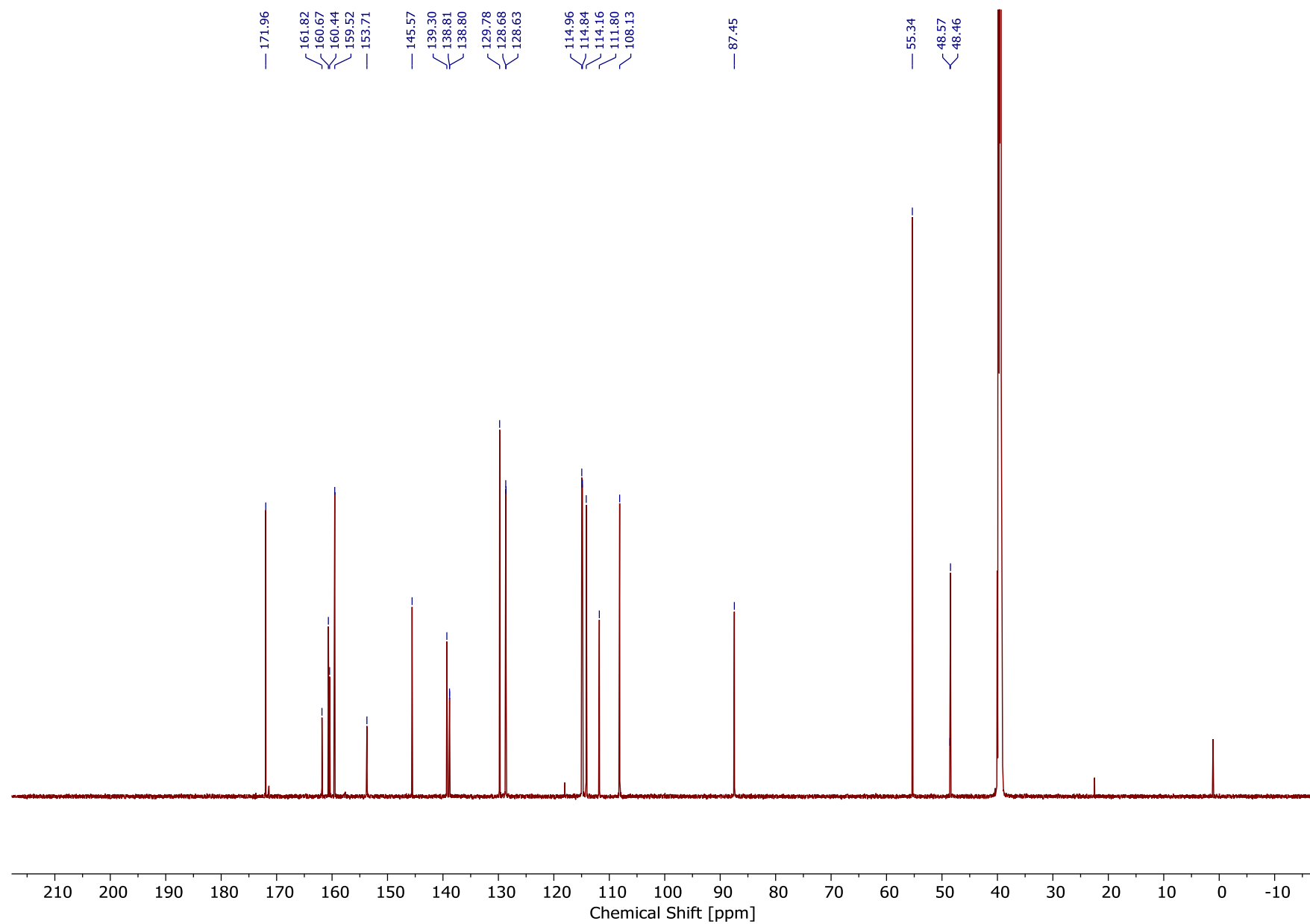


Compound 16:

¹H-NMR



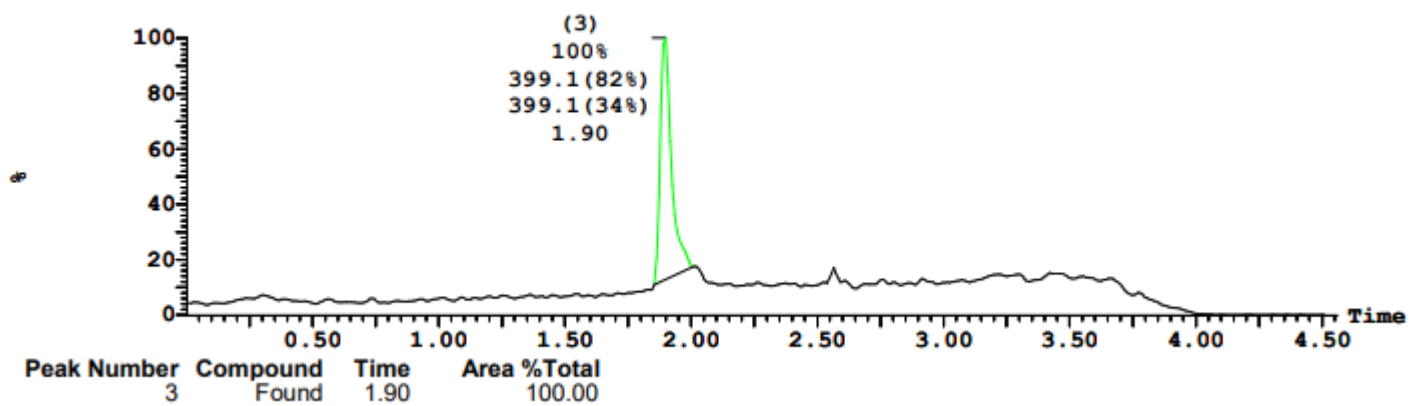
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

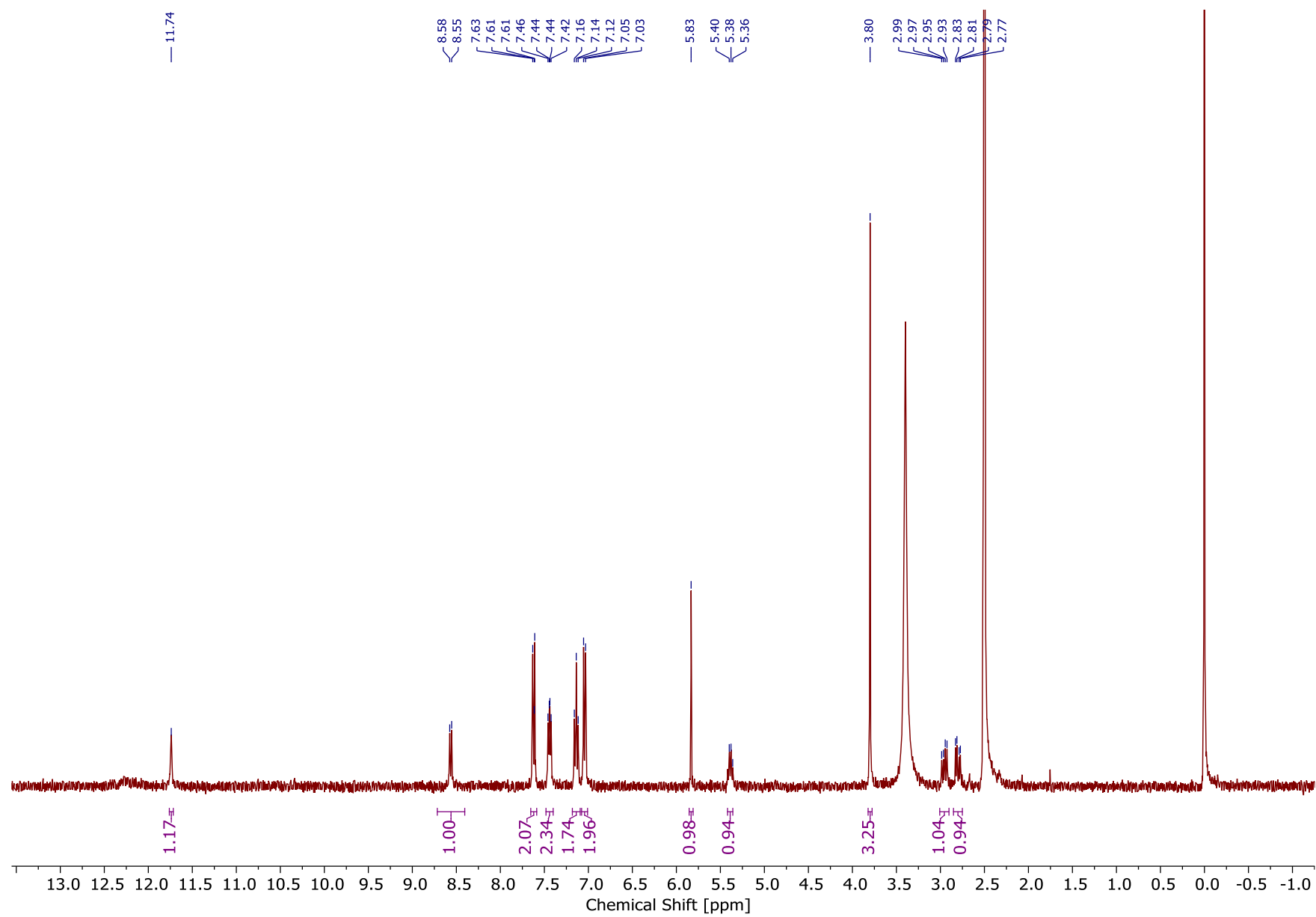
2: MS ES- :TIC Smooth (Mn, 2x1)

7.8e+006



Compound 17:

^1H -NMR

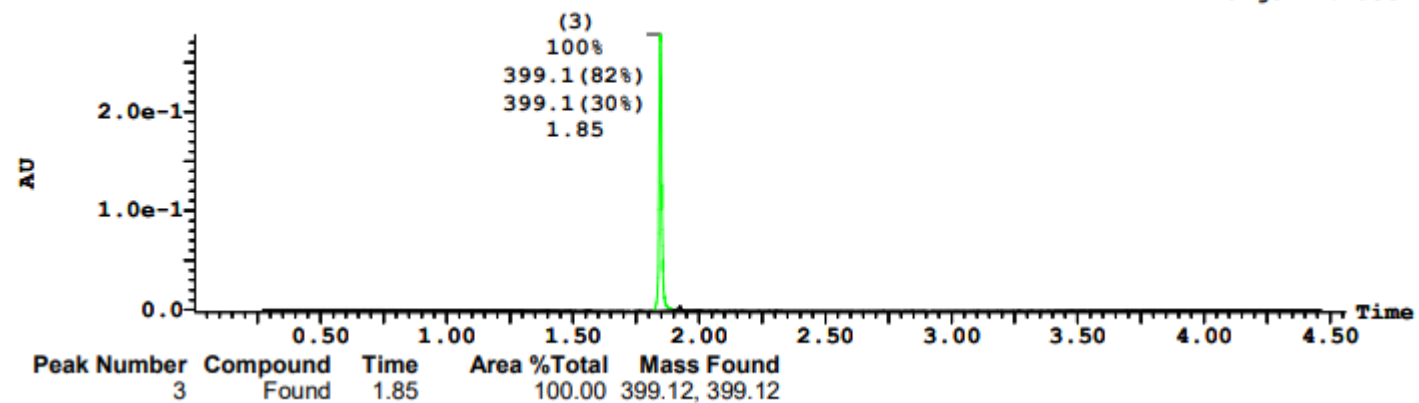


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

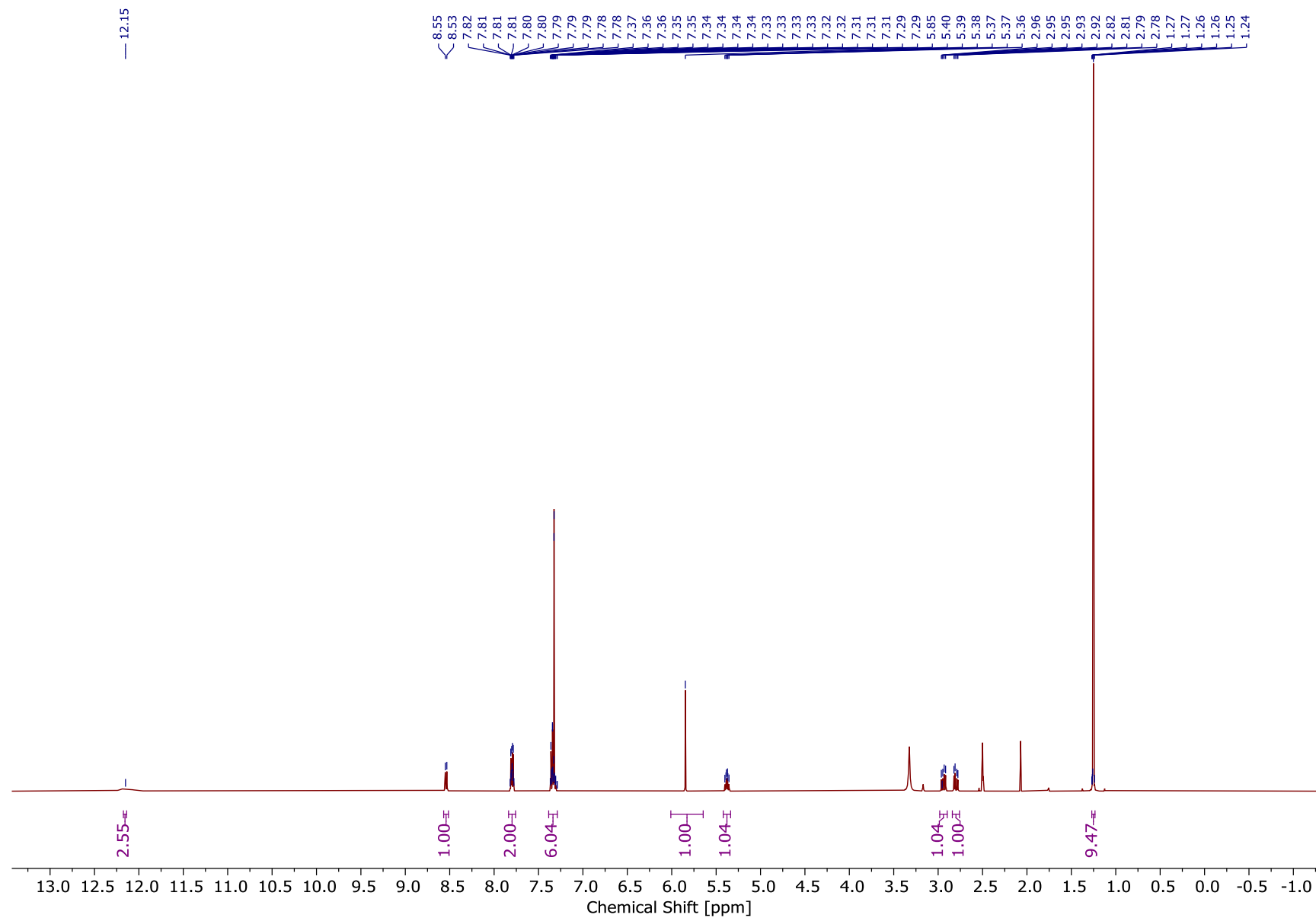
2.777e-1

Range: 2.795e-1

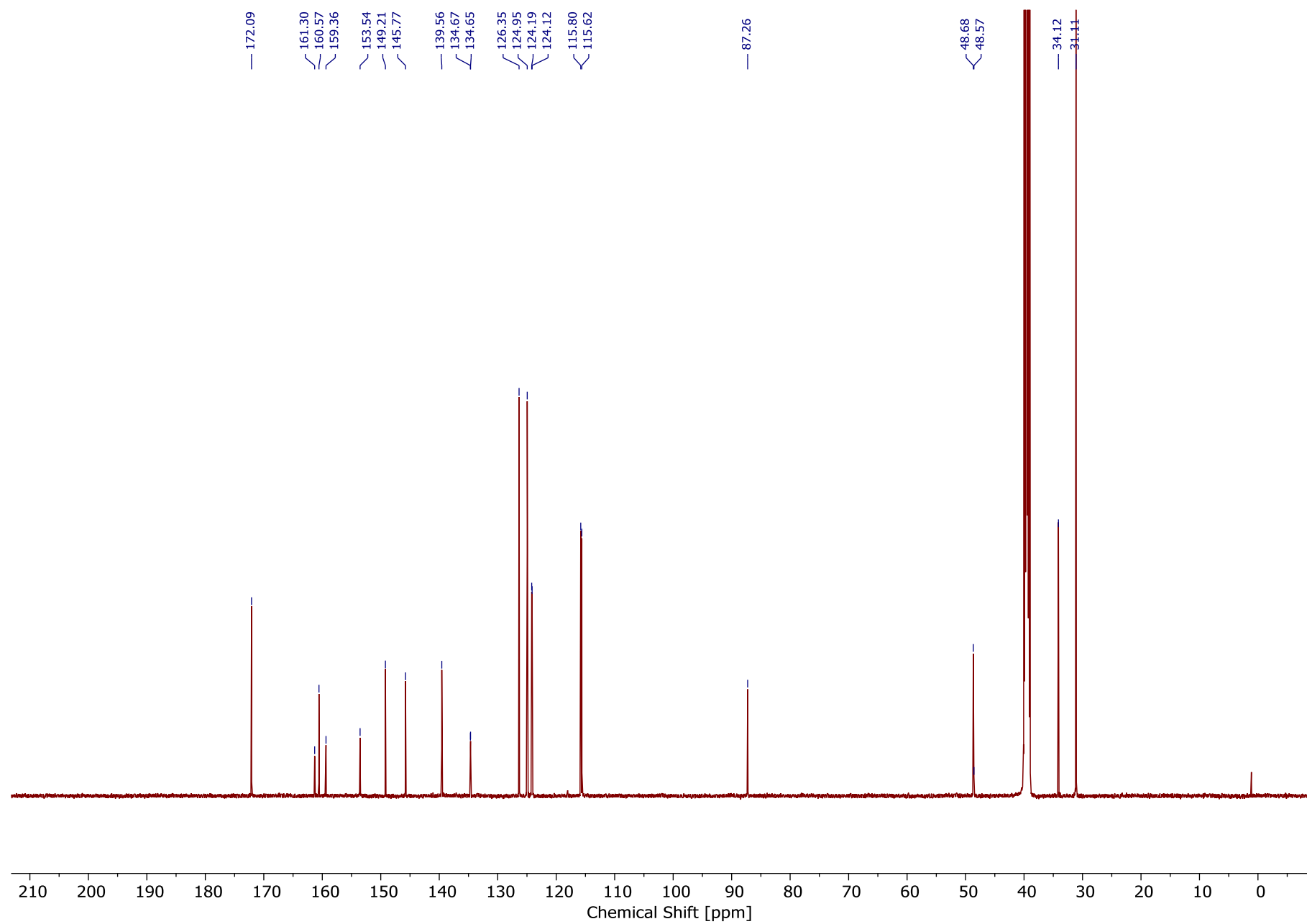


Compound 18

¹H-NMR



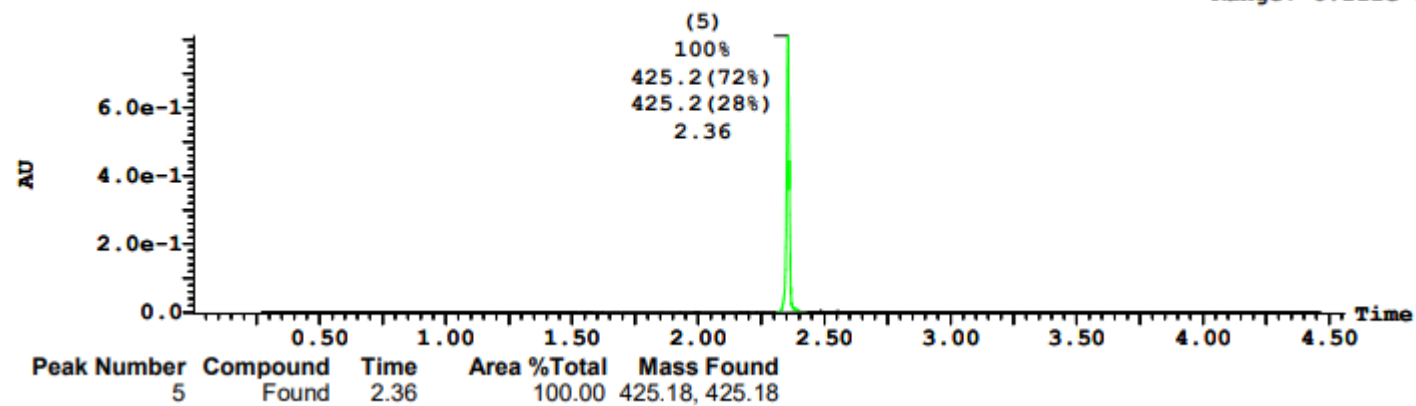
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

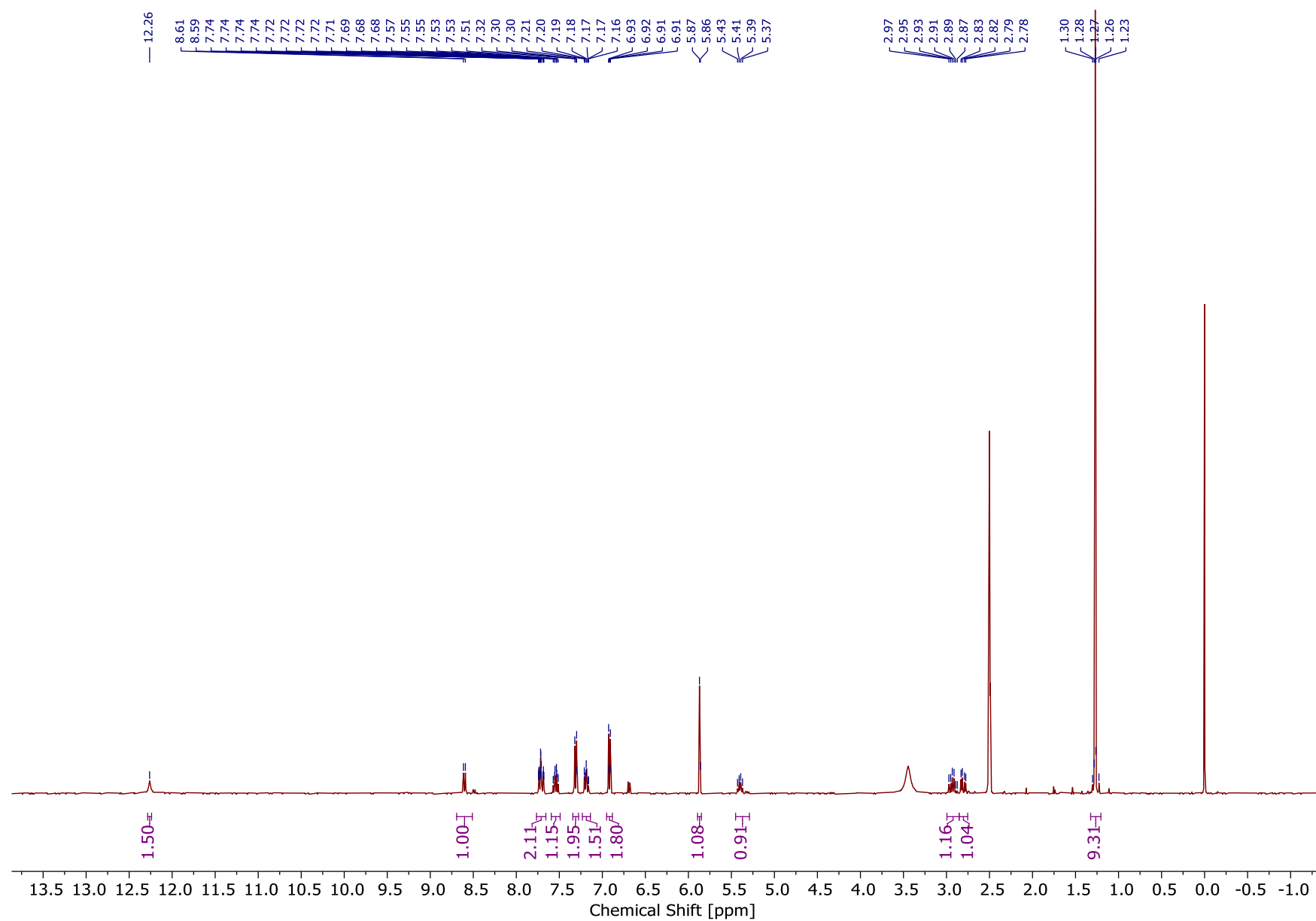
3: UV Detector: 254 Nm 0.7600-4.0600

8.092e-1
Range: 8.111e-1



Compound 19:

^1H -NMR:

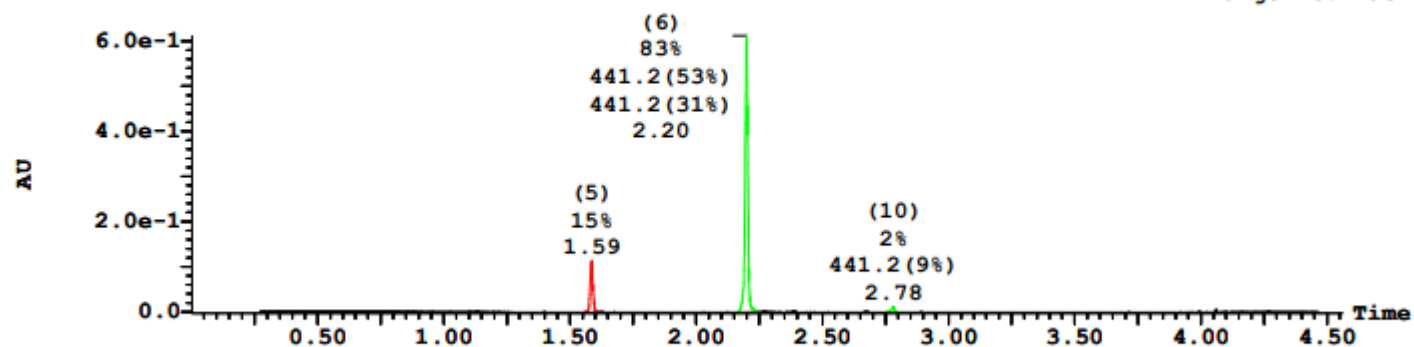


LCMS-Chromatogram

Sample Report (continued):

3: UV Detector: 254 Nm 0.7600-4.0600

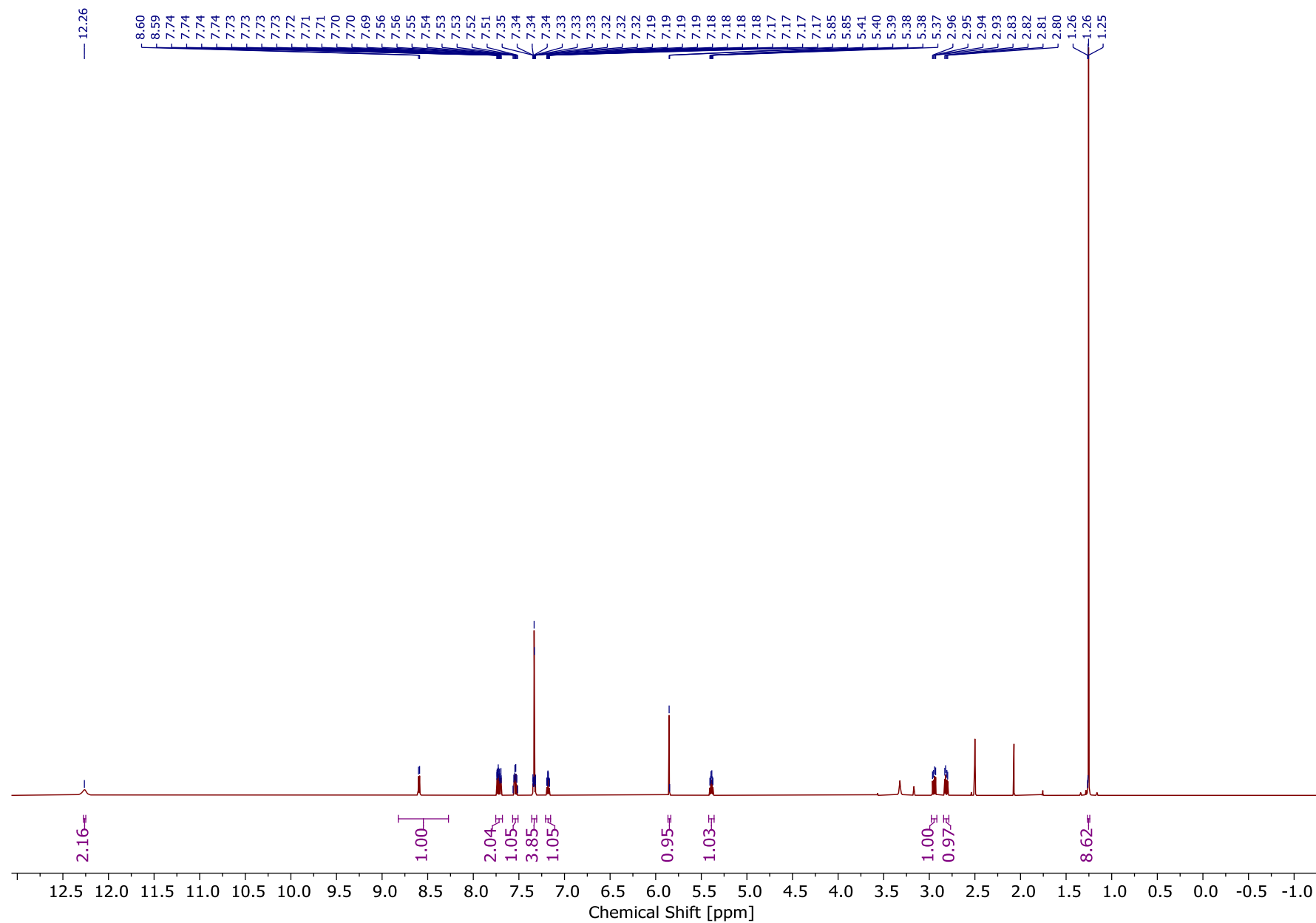
6.108e-1
Range: 6.129e-1



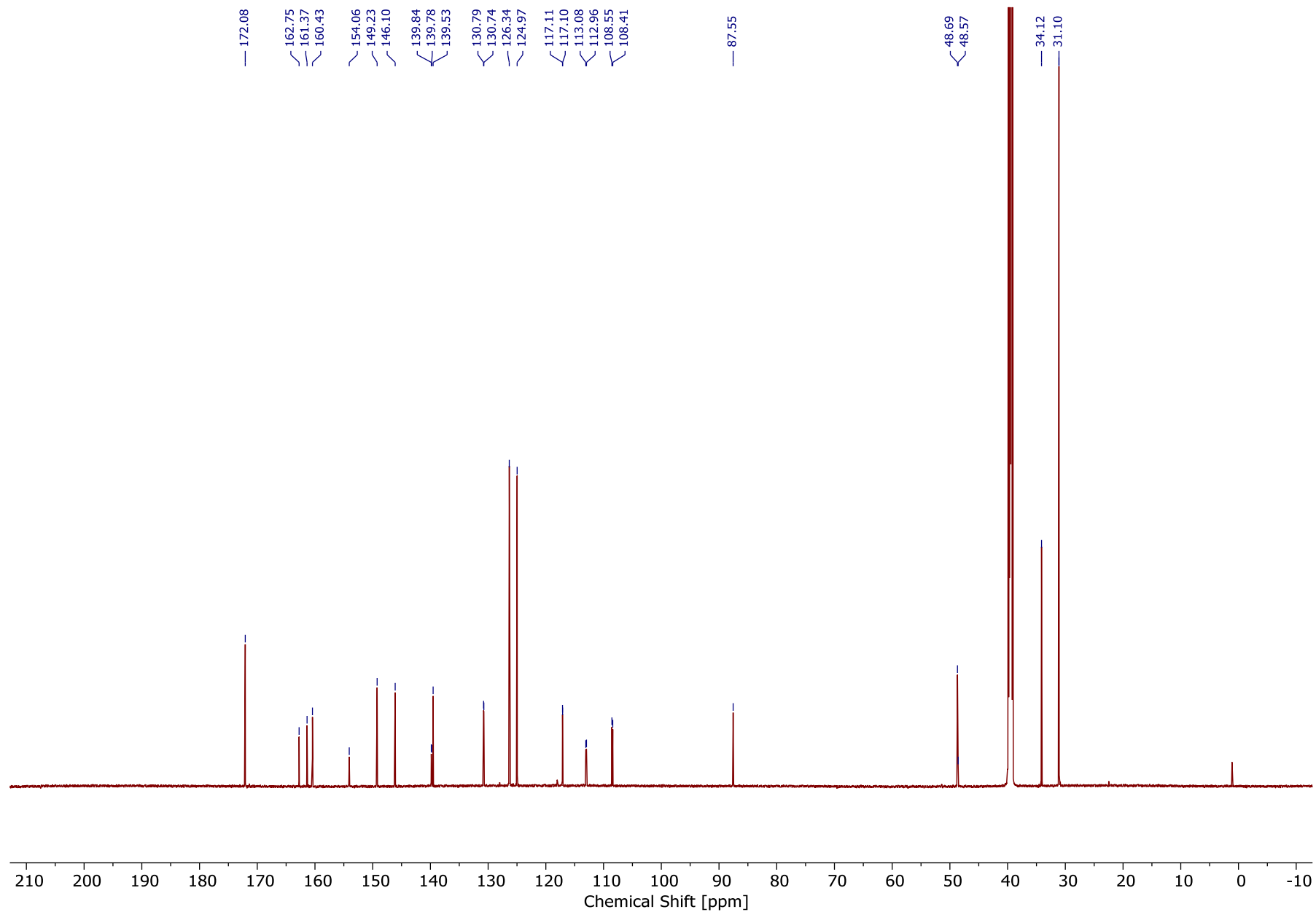
Peak Number	Compound	Time	Area %Total	Mass Found
5		1.59	15.18	Not Found
6	Found	2.20	82.99	441.17, 441.17
10	Tentative	2.78	1.83	441.17

Compound 20:

$^1\text{H-NMR}$



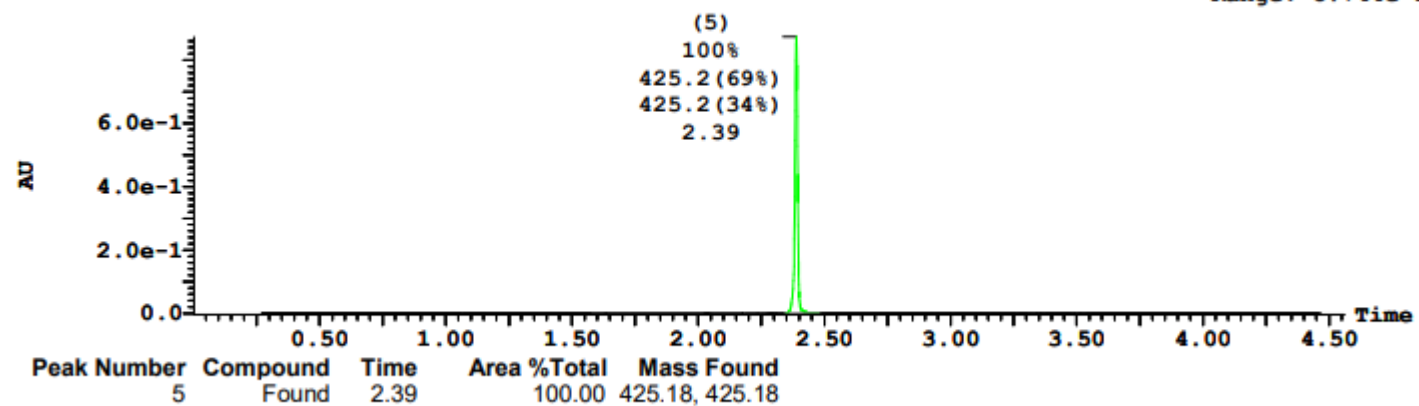
¹³C{¹H} NMR:



LCMS-Chromatogram

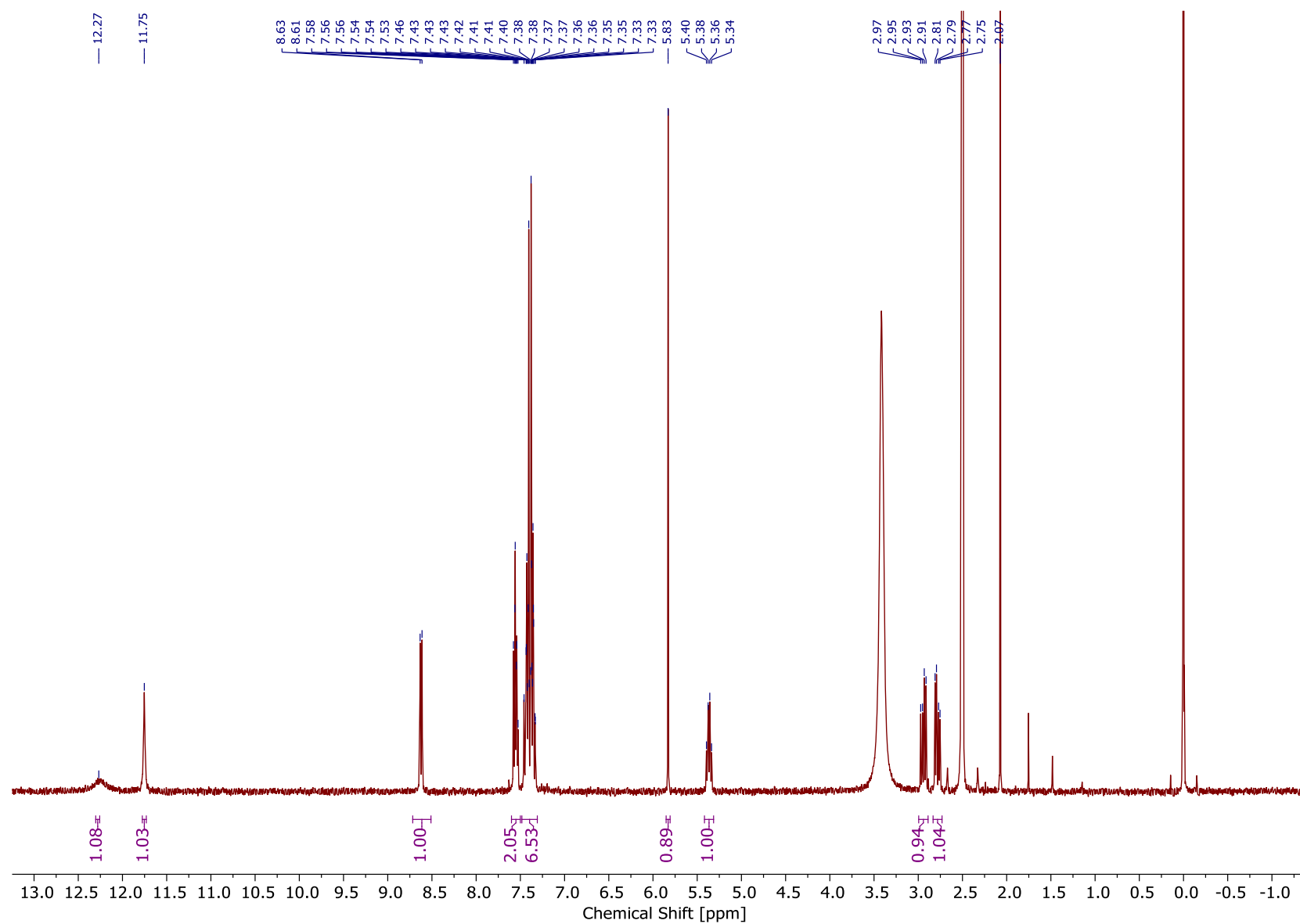
3: UV Detector: 254 Nm 0.7600-4.0600

8.724e-1
Range: 8.744e-1



Compound 21:

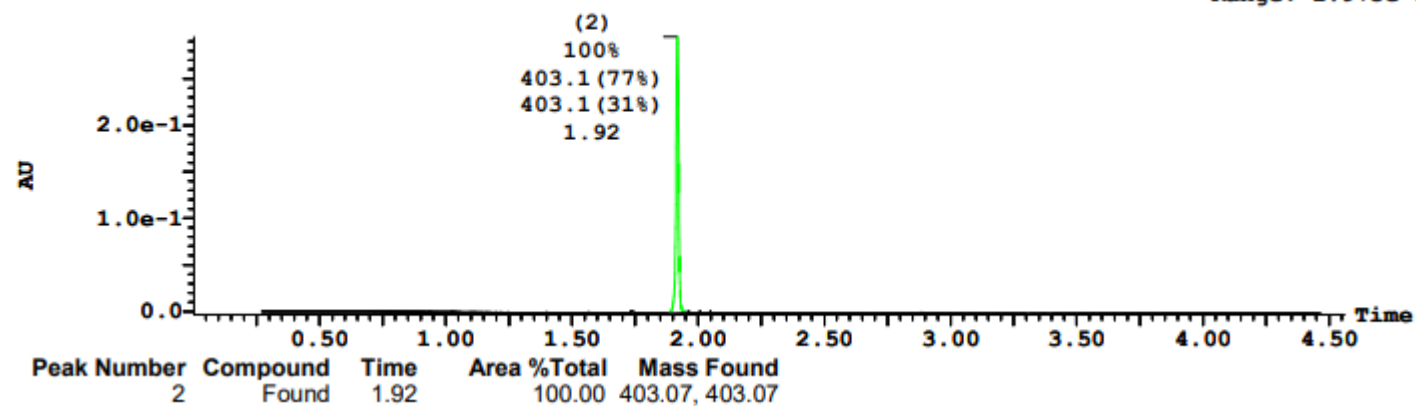
¹H-NMR:



LCMS-Chromatogram

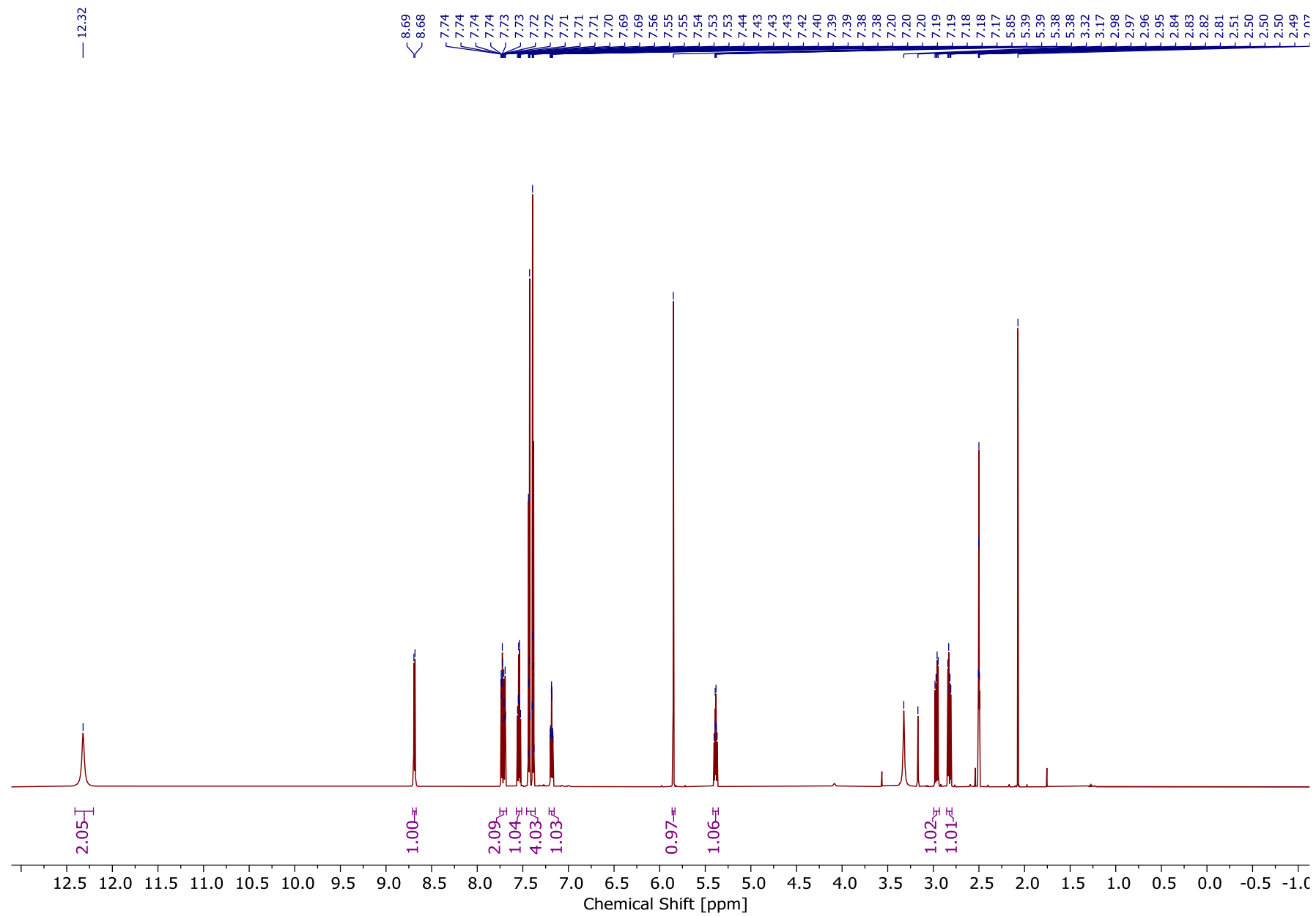
3: UV Detector: 254 Nm 0.7600-4.0600

2.947e-1
Range: 2.975e-1

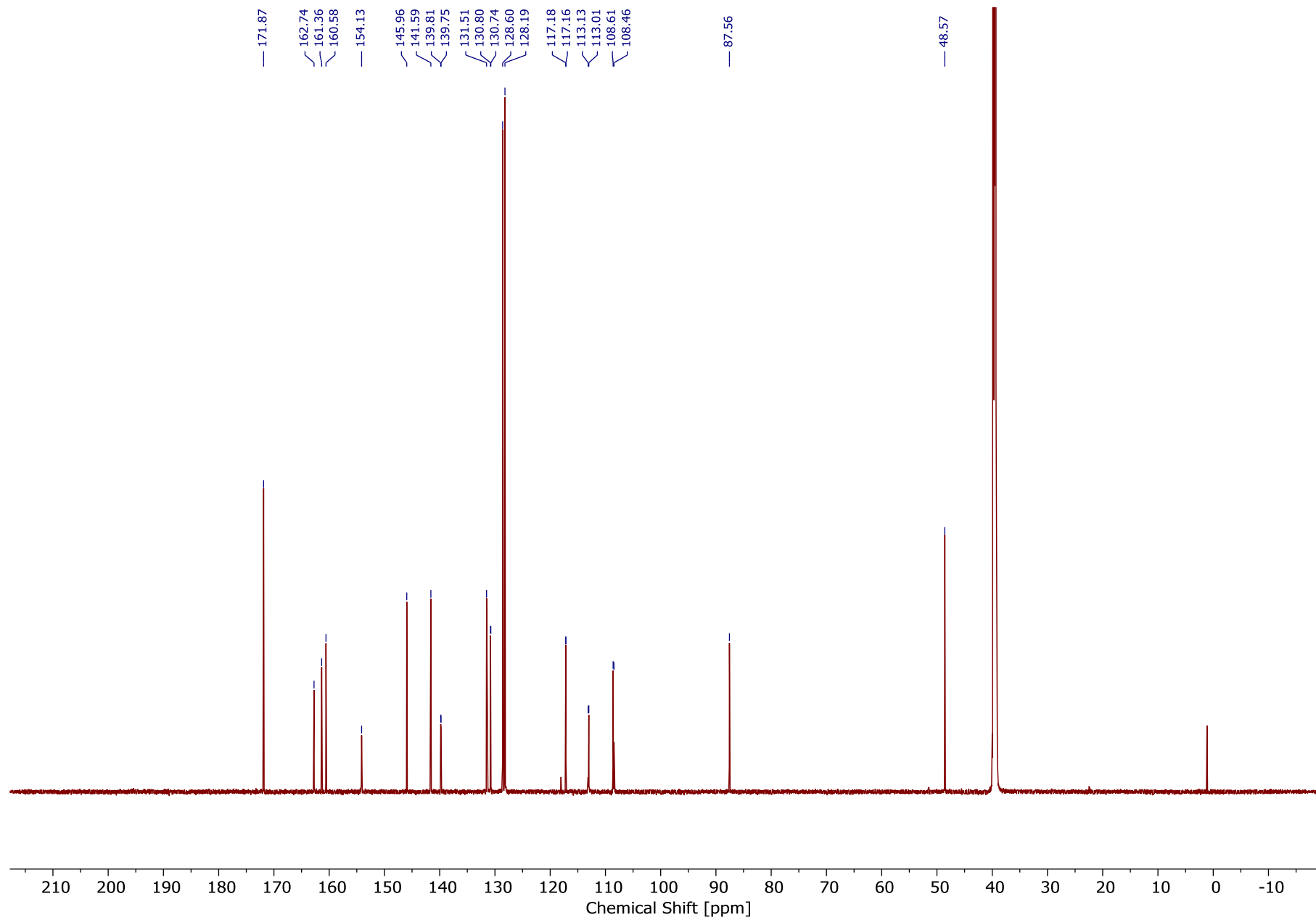


Compound 22

^1H -NMR:



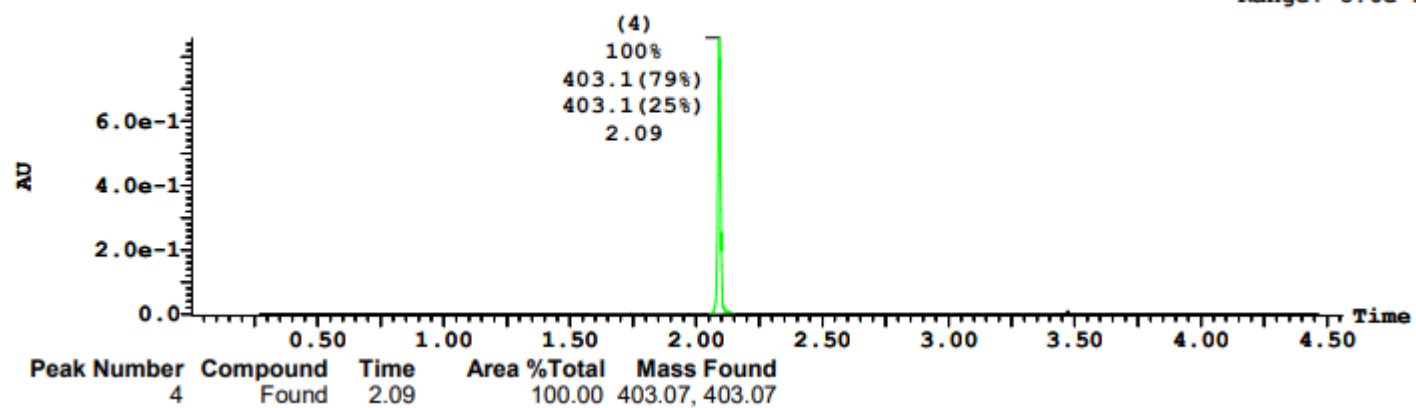
$^{13}\text{C}\{^1\text{H}\}$ NMR



LCMS-Chromatogram

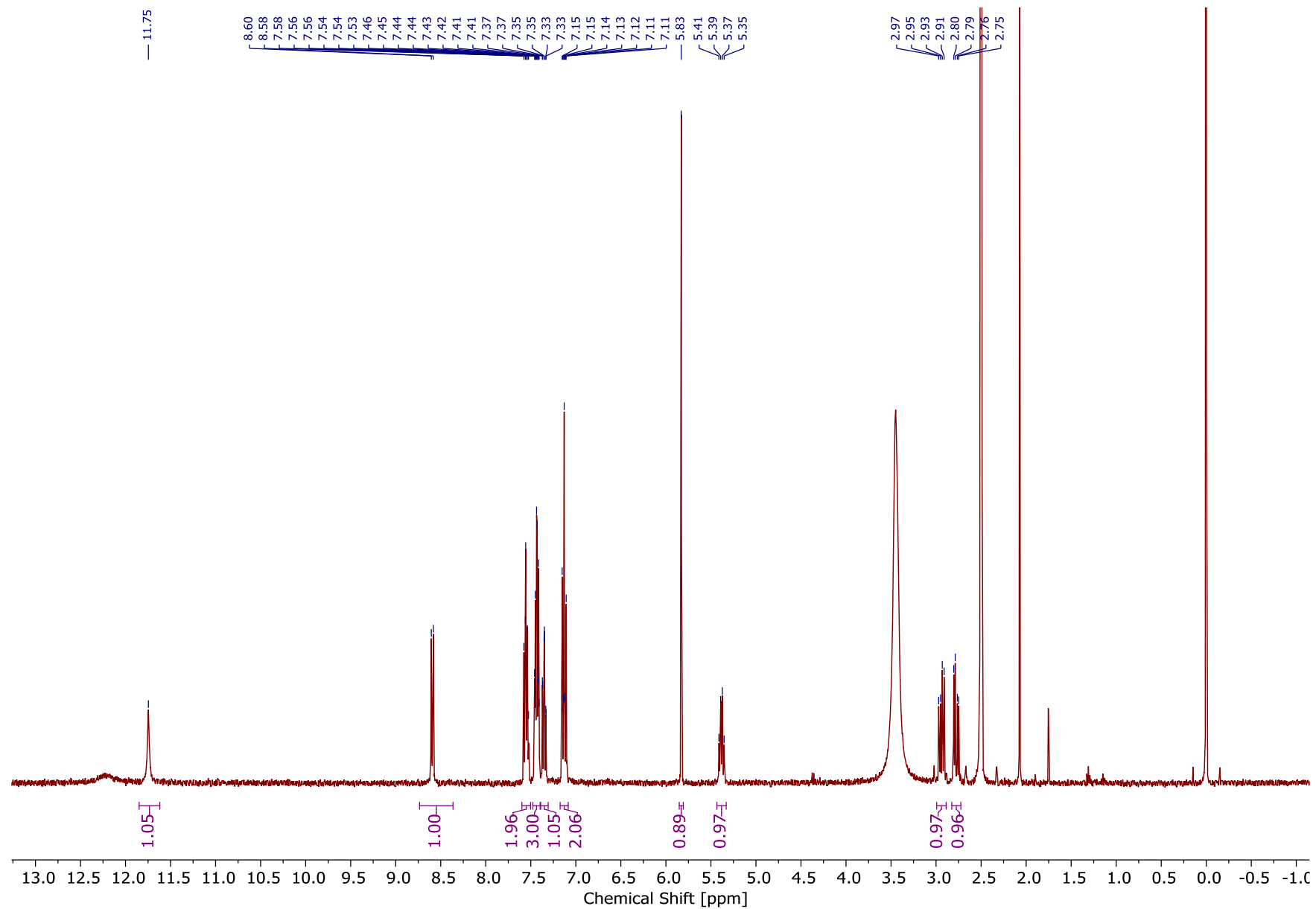
3: UV Detector: 254 Nm 0.7600-4.0600

8.577e-1
Range: 8.6e-1



Compound 23

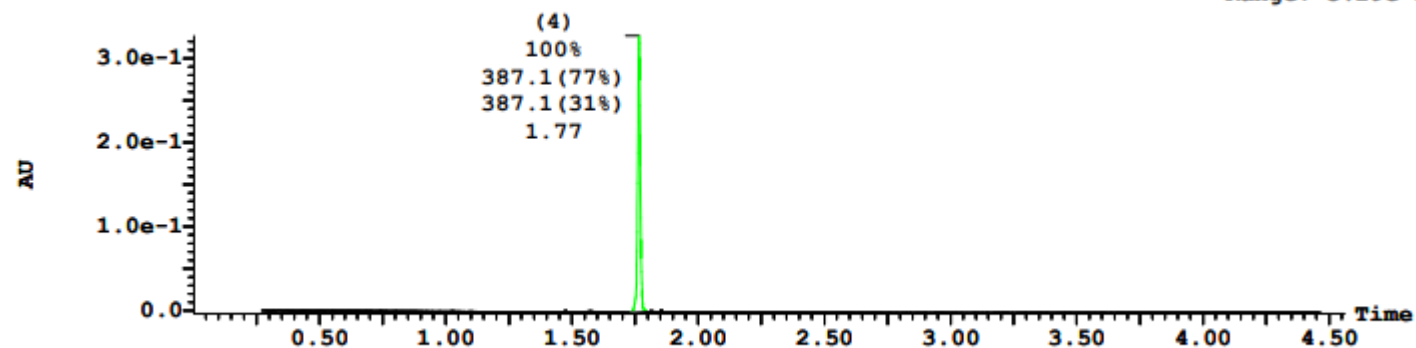
¹H-NMR



LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

3.263e-1
Range: 3.29e-1

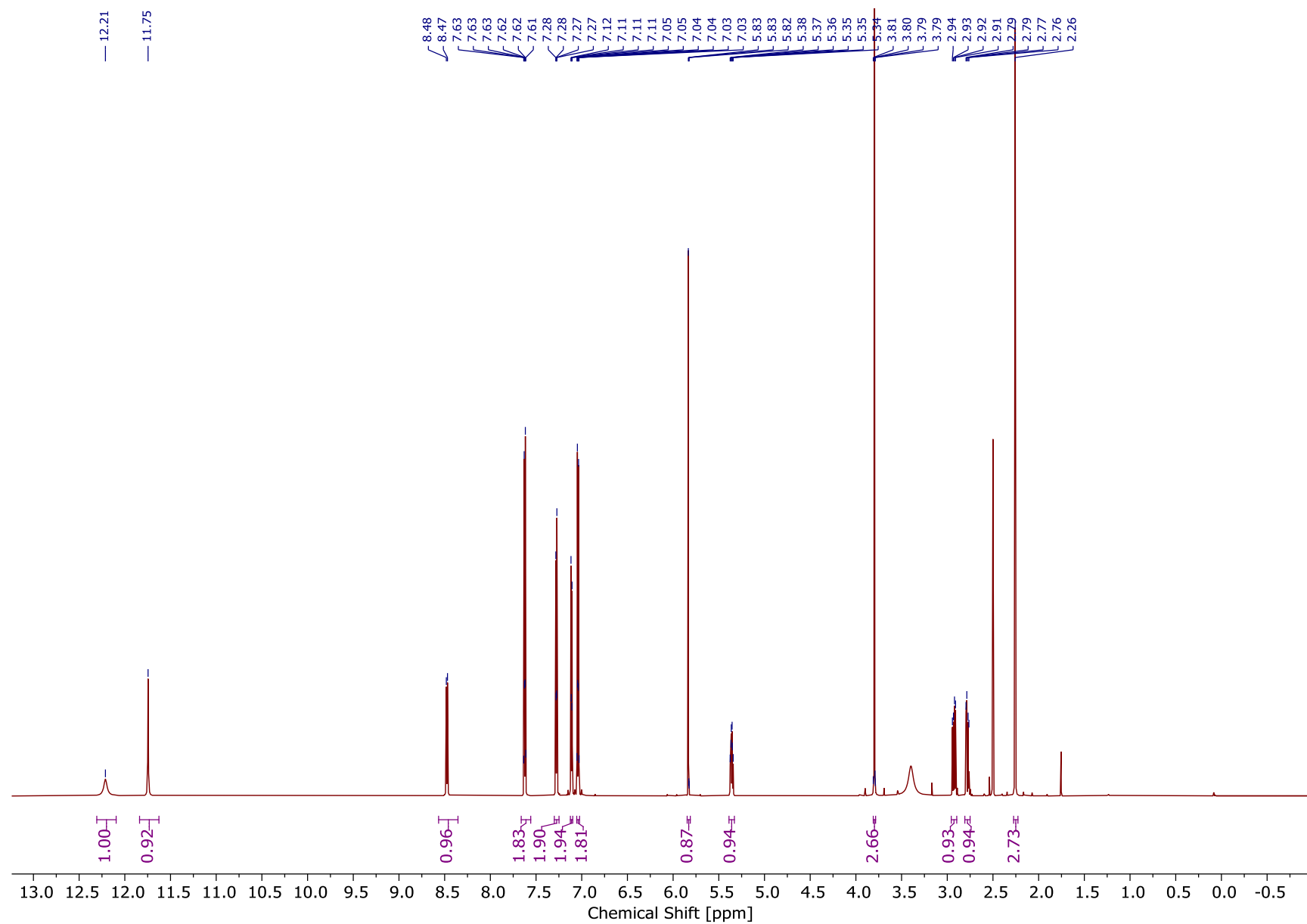


Peak Number	Compound	Time	Area %Total	Mass Found
4	Found	1.77	100.00	387.10, 387.10

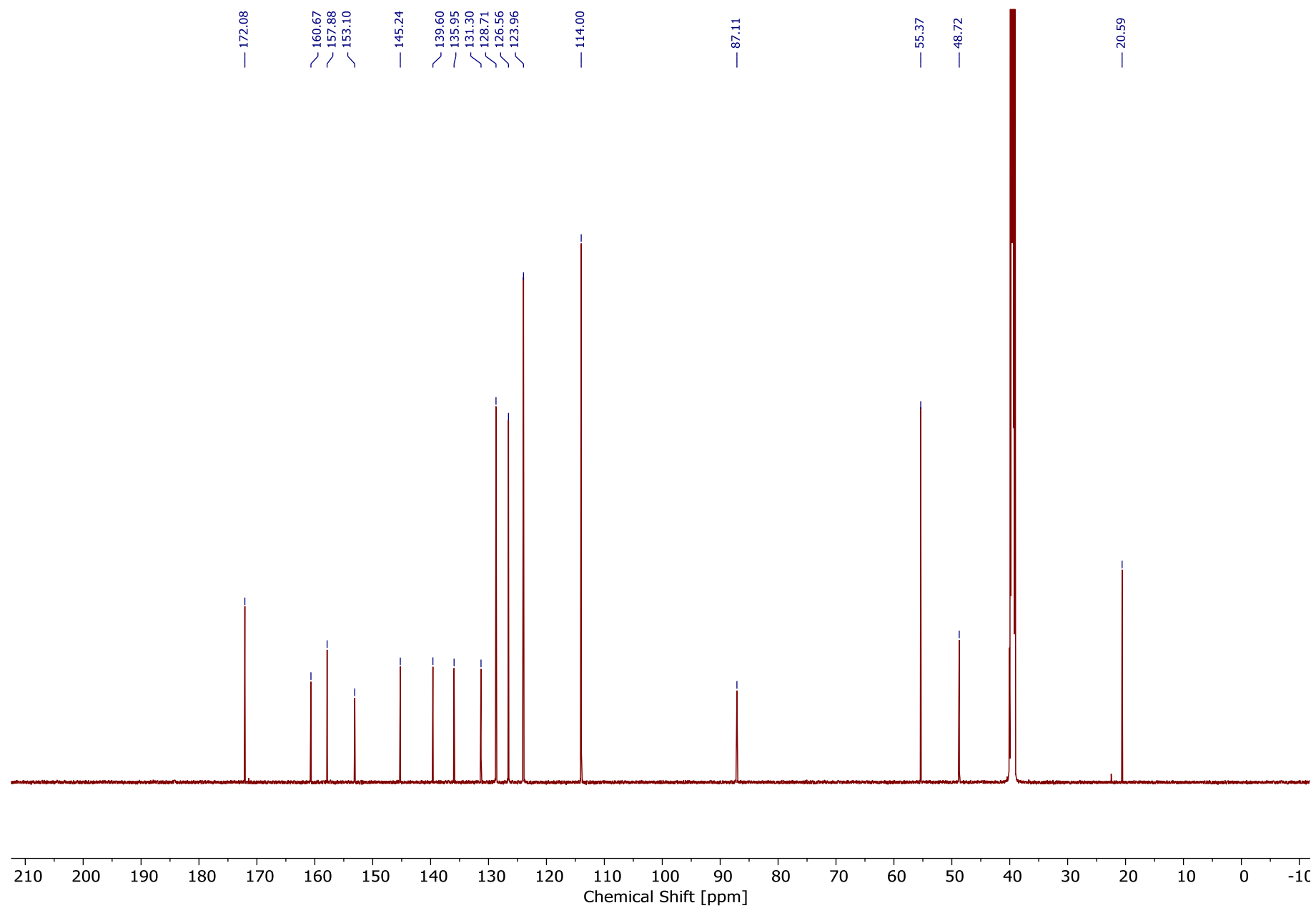
:

Compound 24

¹H-NMR:



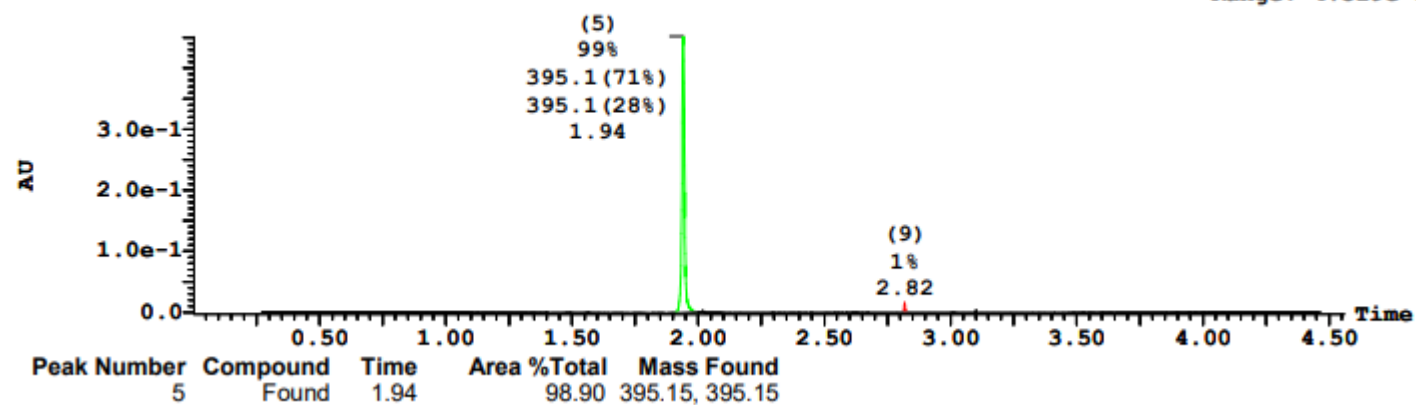
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

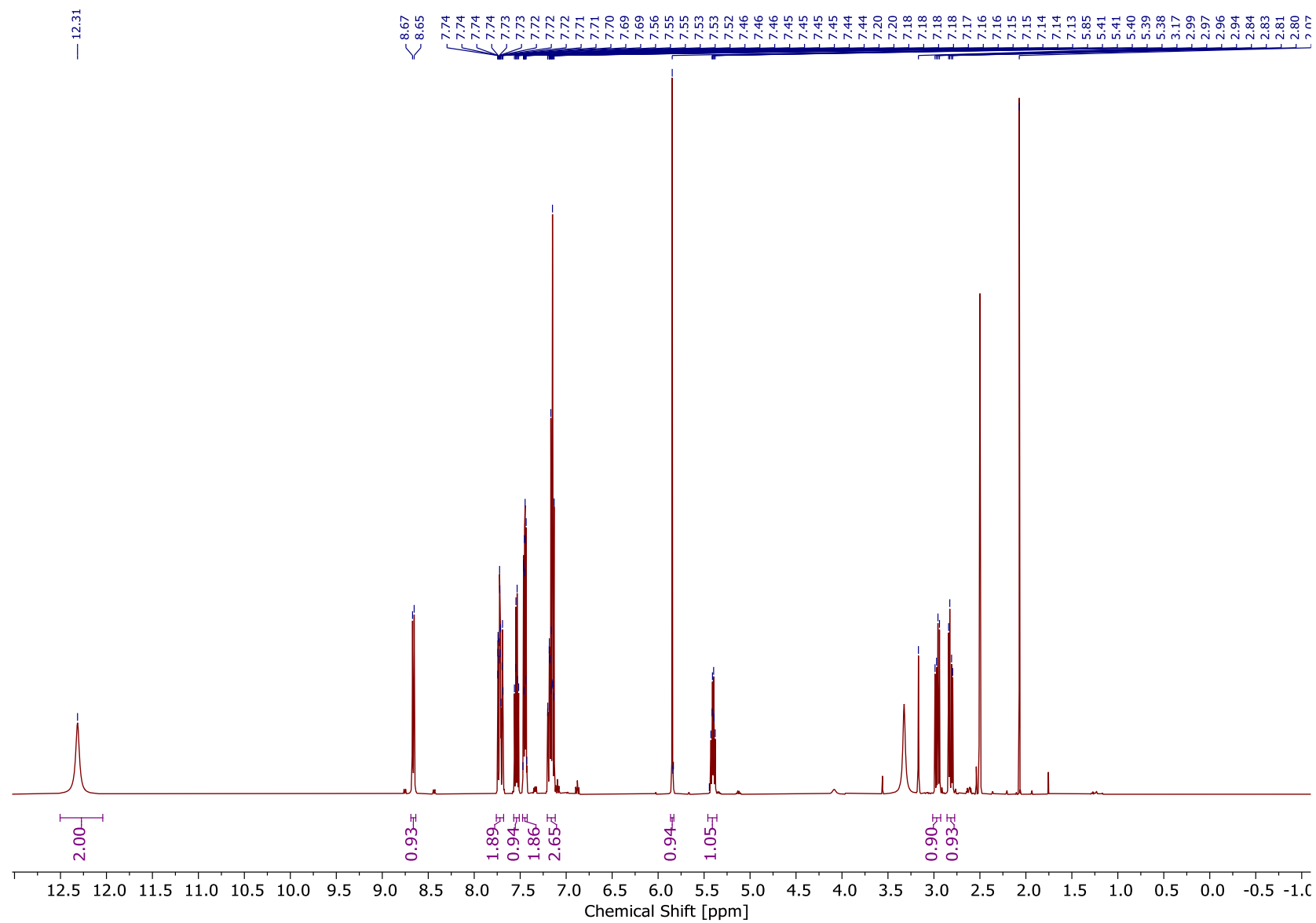
3: UV Detector: 254 Nm 0.7600-4.0600

4.509e-1
Range: 4.529e-1

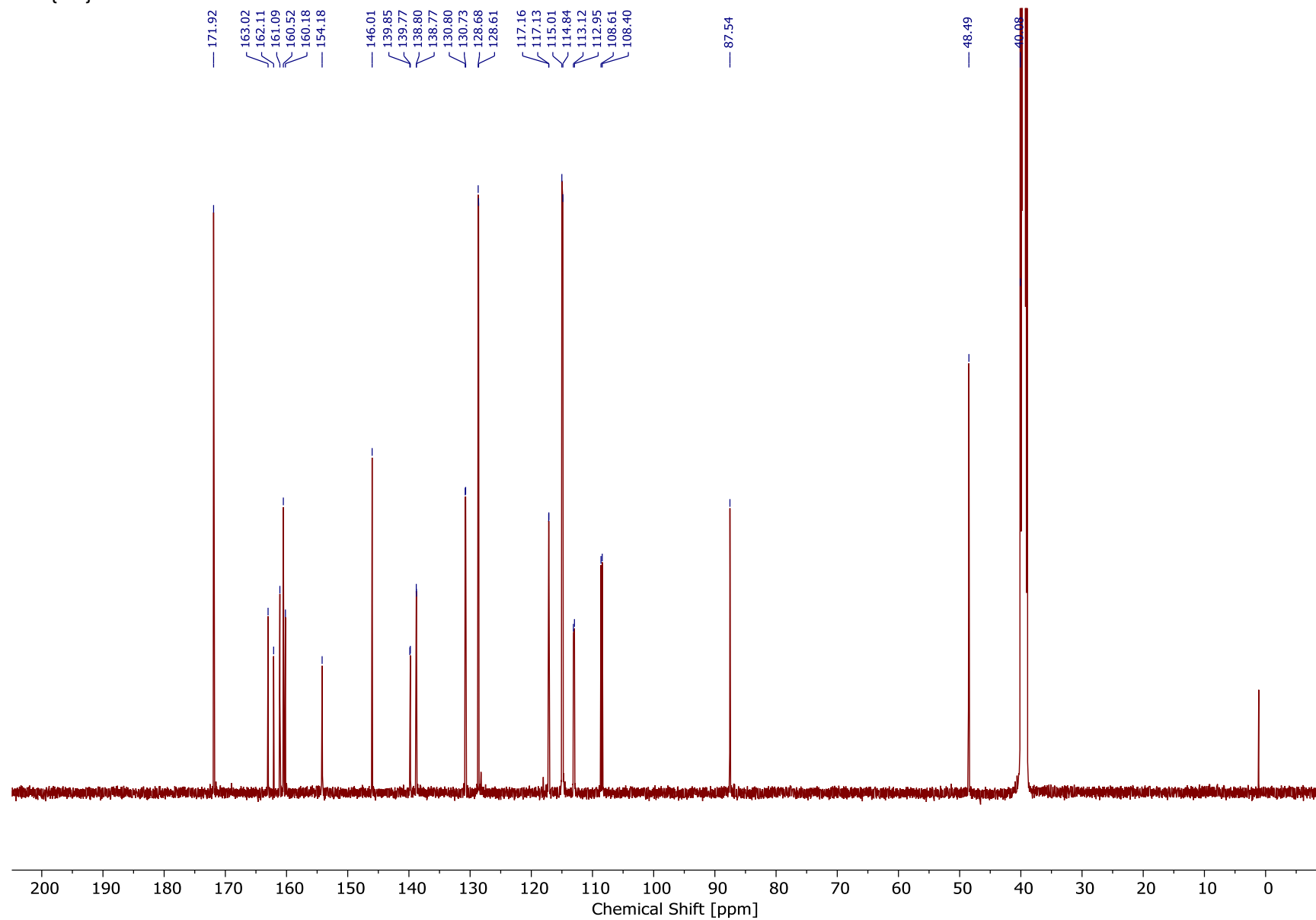


Compound 25:

¹H-NMR:



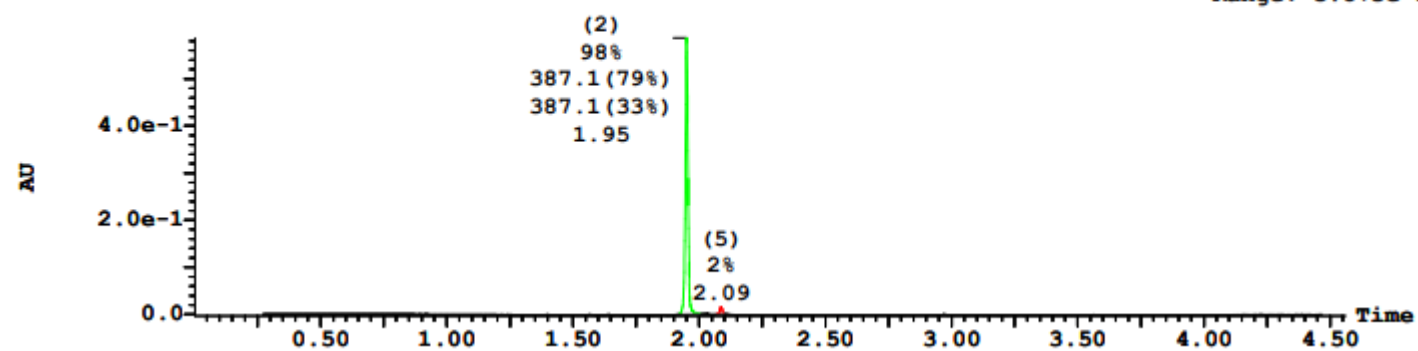
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

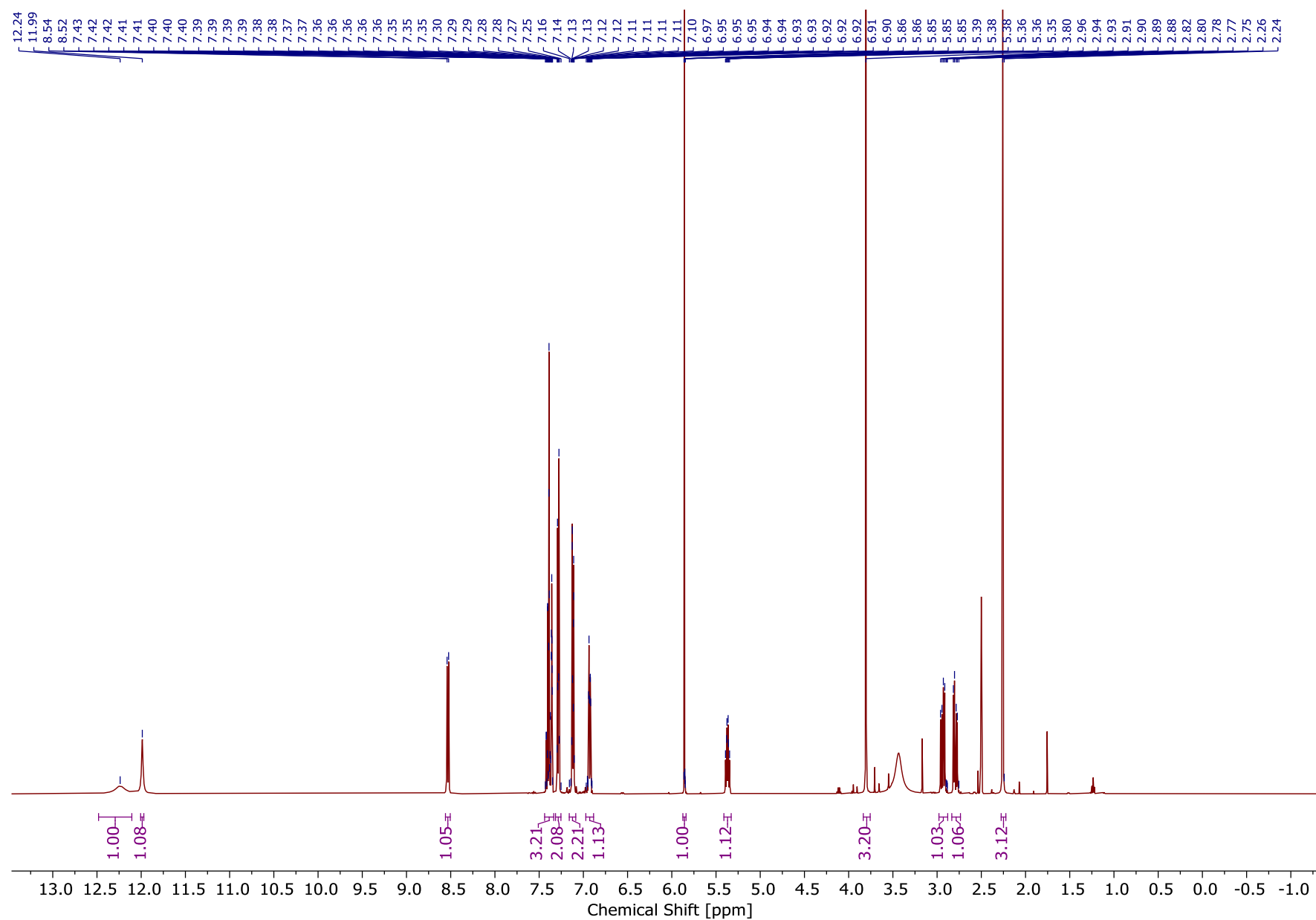
3: UV Detector: 254 Nm 0.7600-4.0600

5.854e-1
Range: 5.873e-1

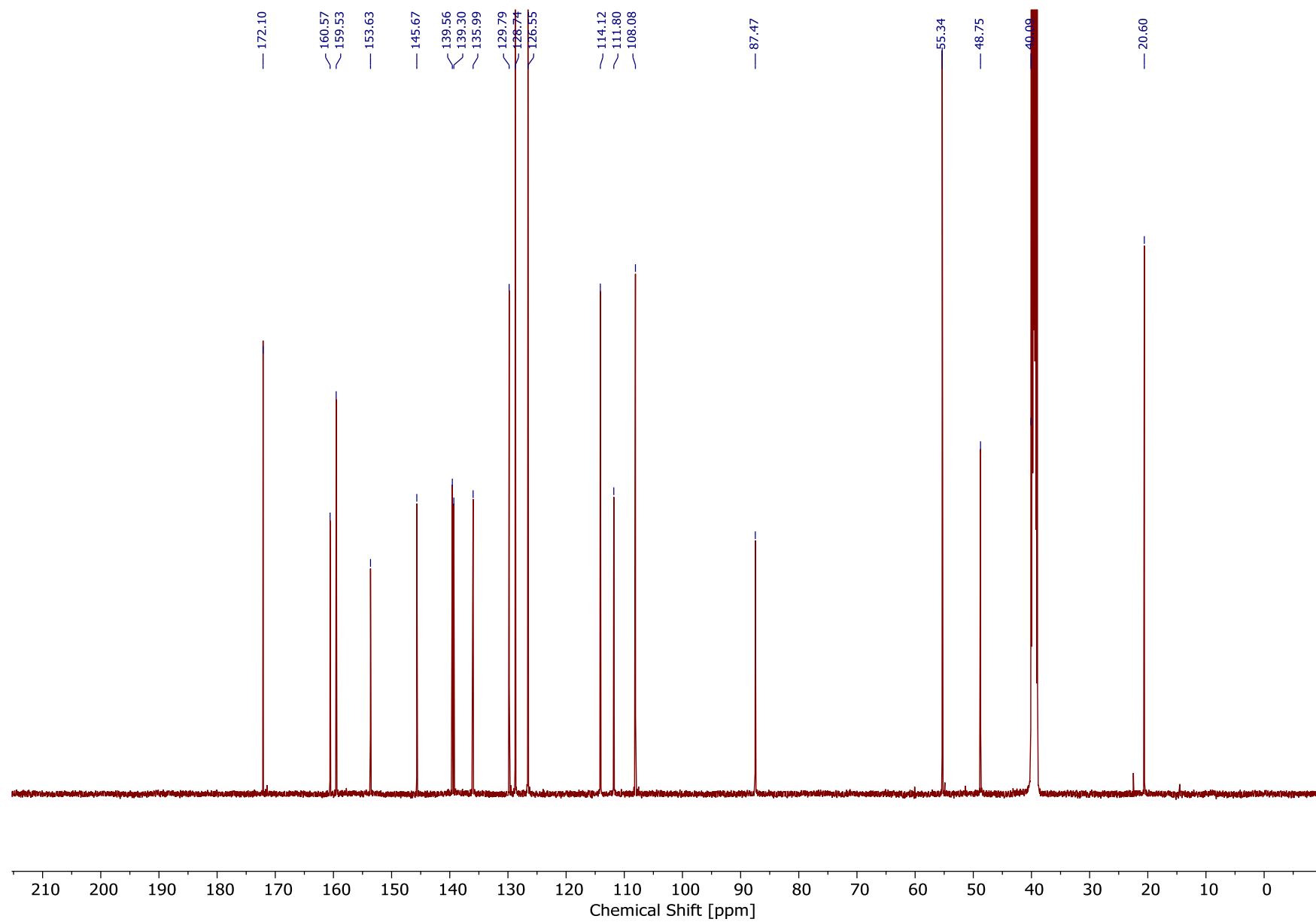


Compound 26

¹H-NMR



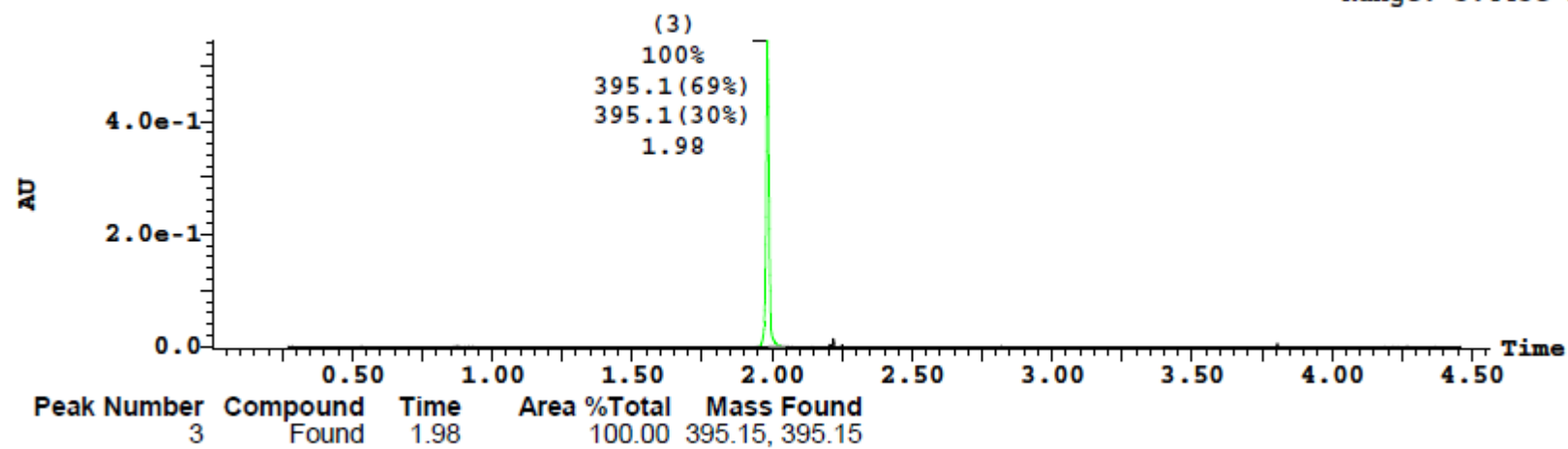
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

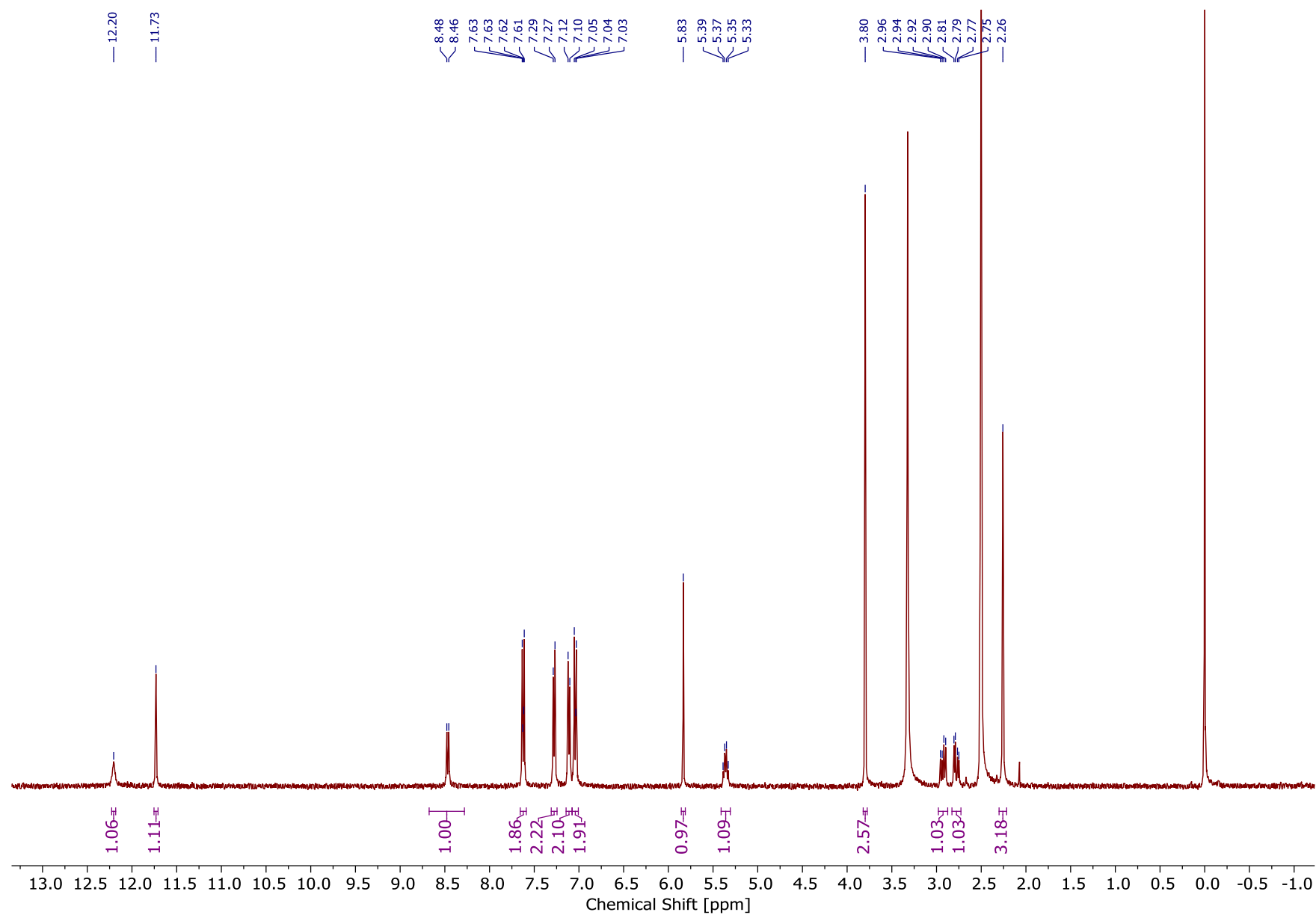
3: UV Detector: 254 Nm 0.7600-4.0600

5.428e-1
Range: 5.445e-1



Compound 27

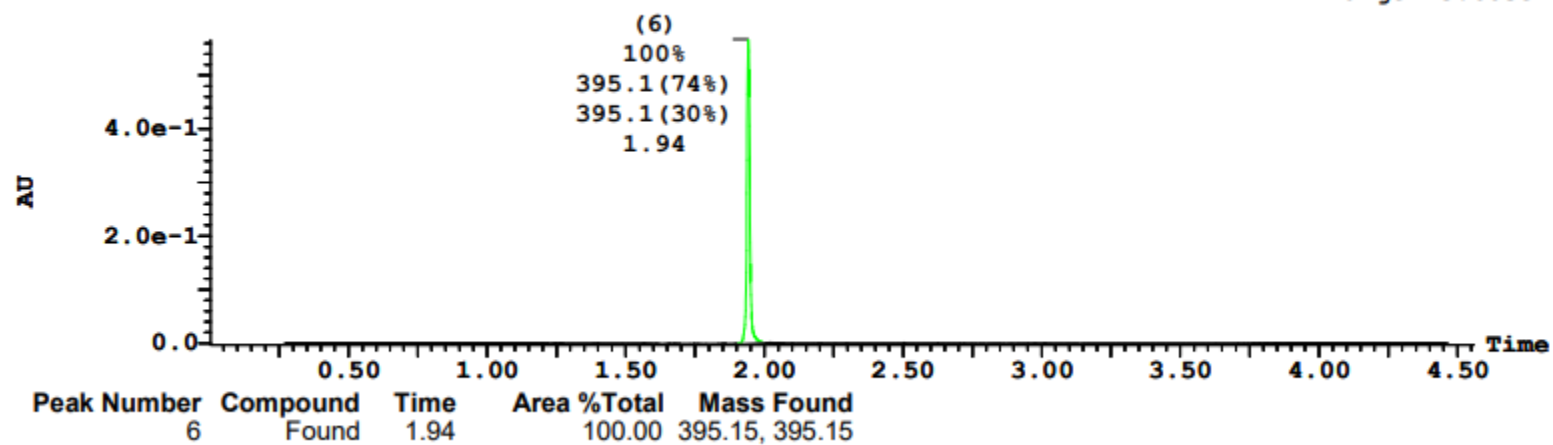
¹H-NMR:



LCMS-Chromatogram:

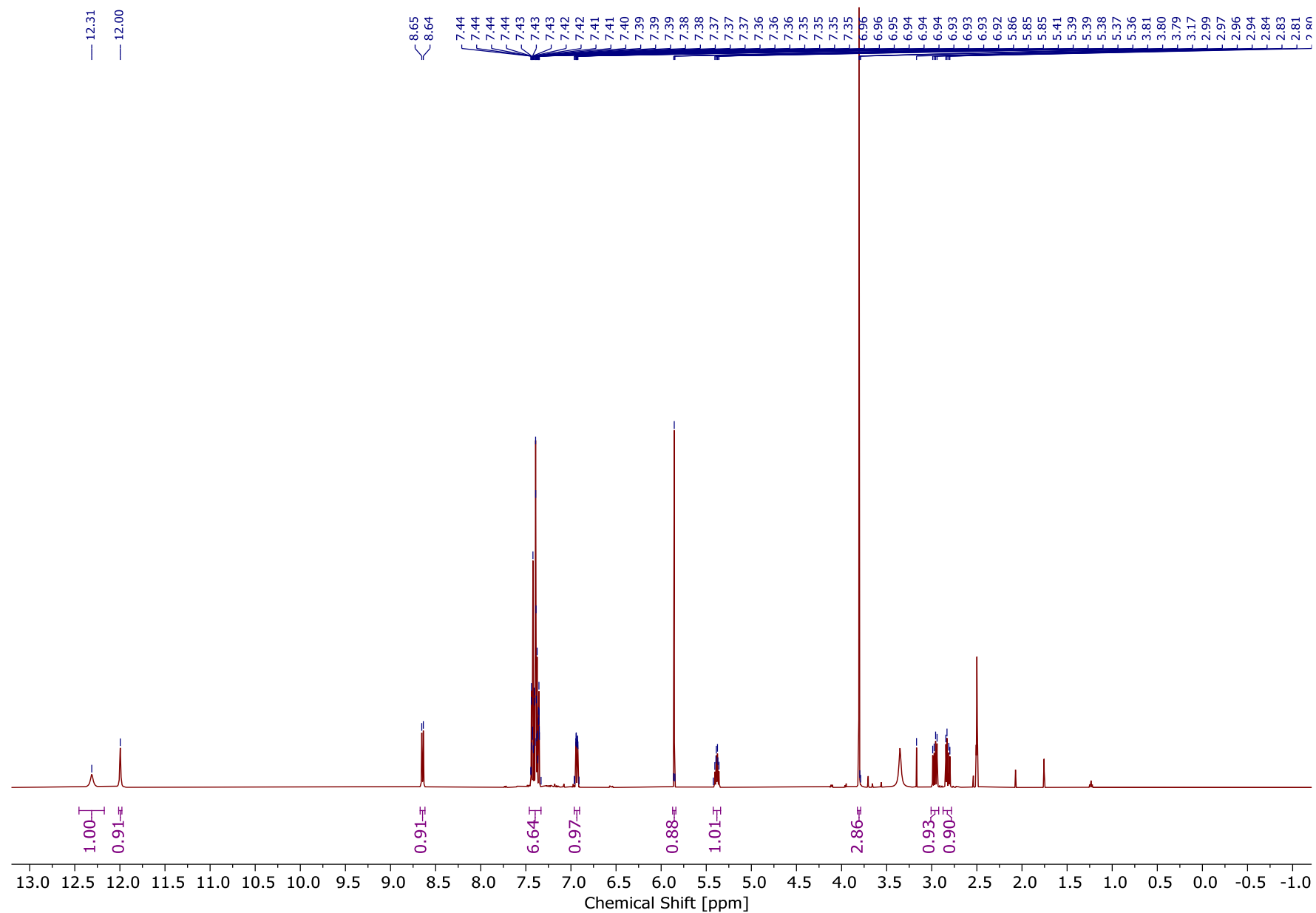
3: UV Detector: 254 Nm 0.7600-4.0600

5.663e-1
Range: 5.683e-1

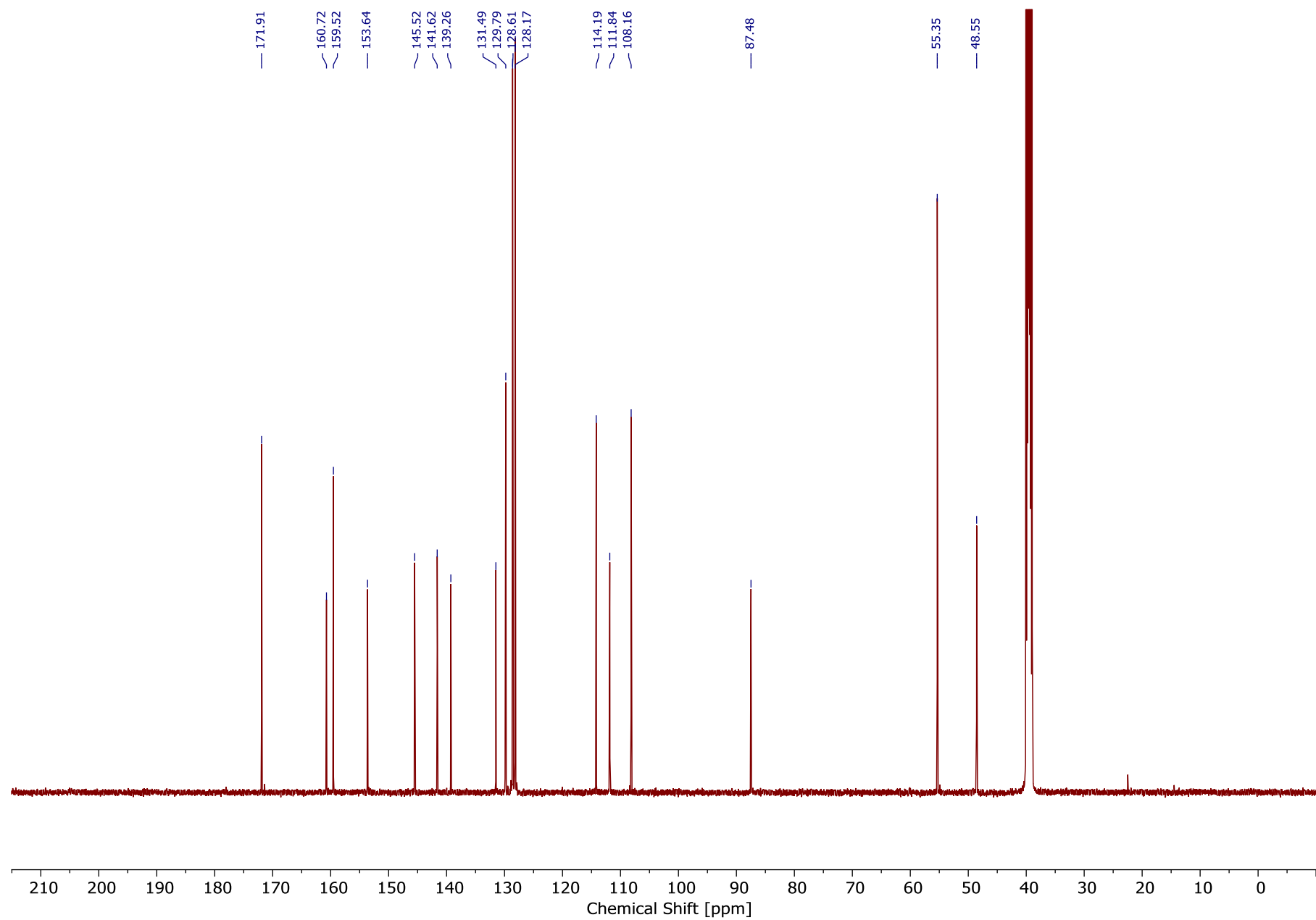


Compound 28:

^1H -NMR:



$^{13}\text{C}\{^1\text{H}\}$ NMR:

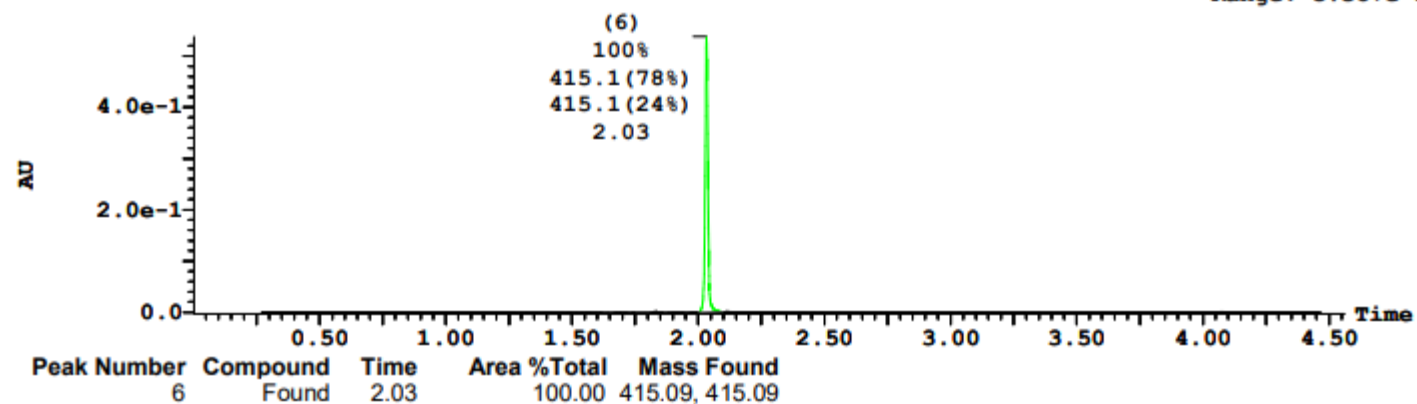


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

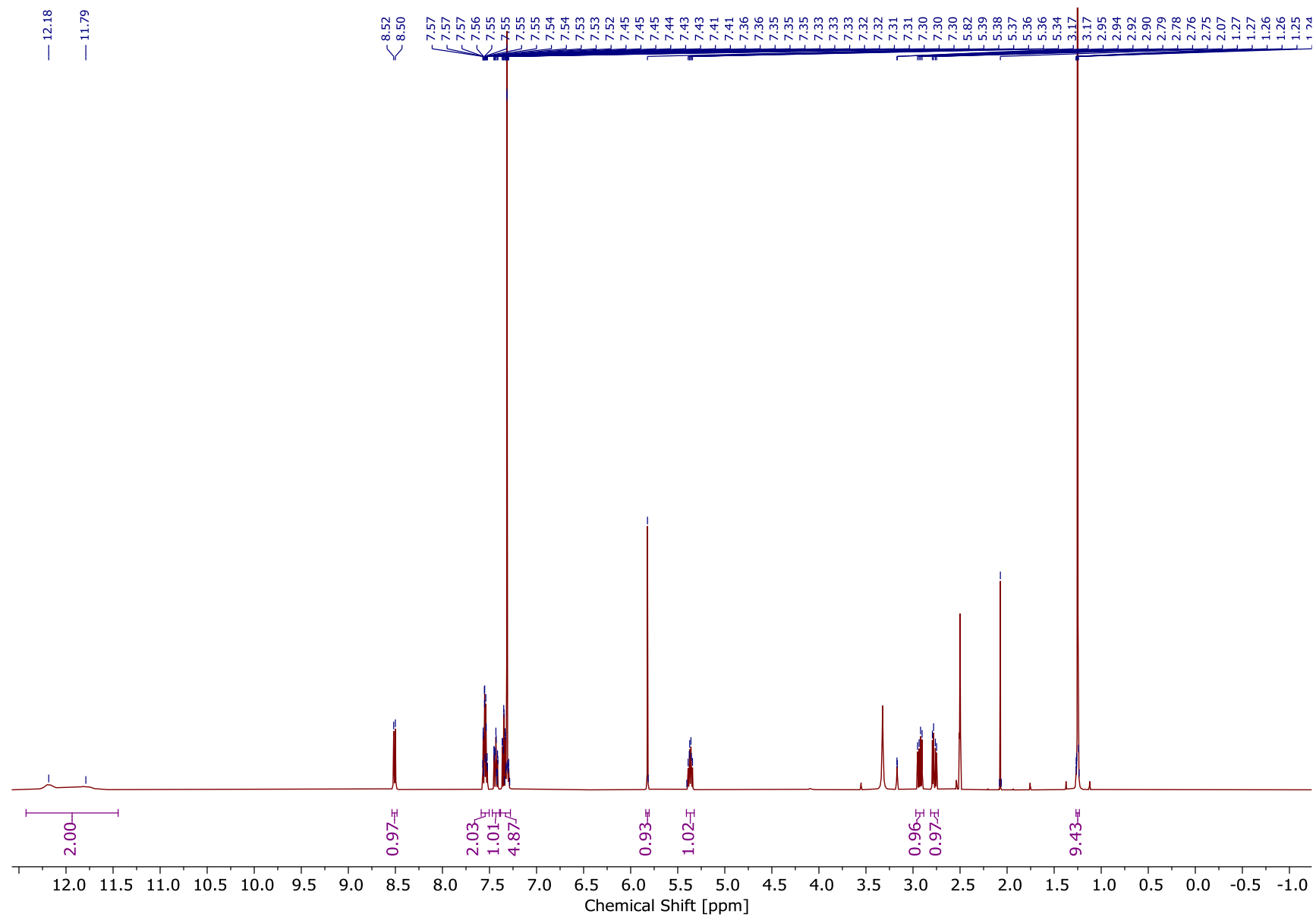
5.369e-1

Range: 5.387e-1

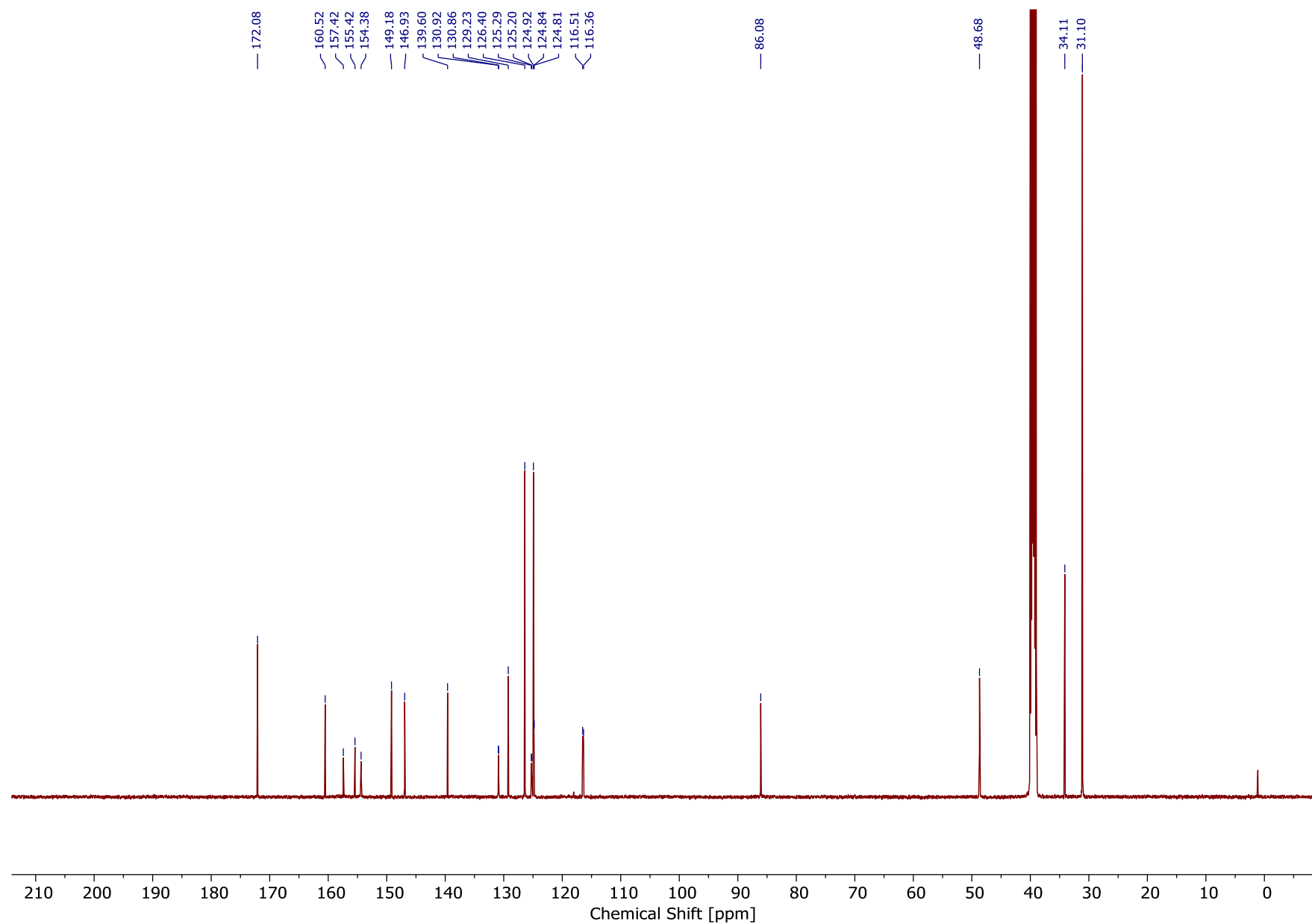


Compound 29:

^1H NMR:



¹³C NMR:

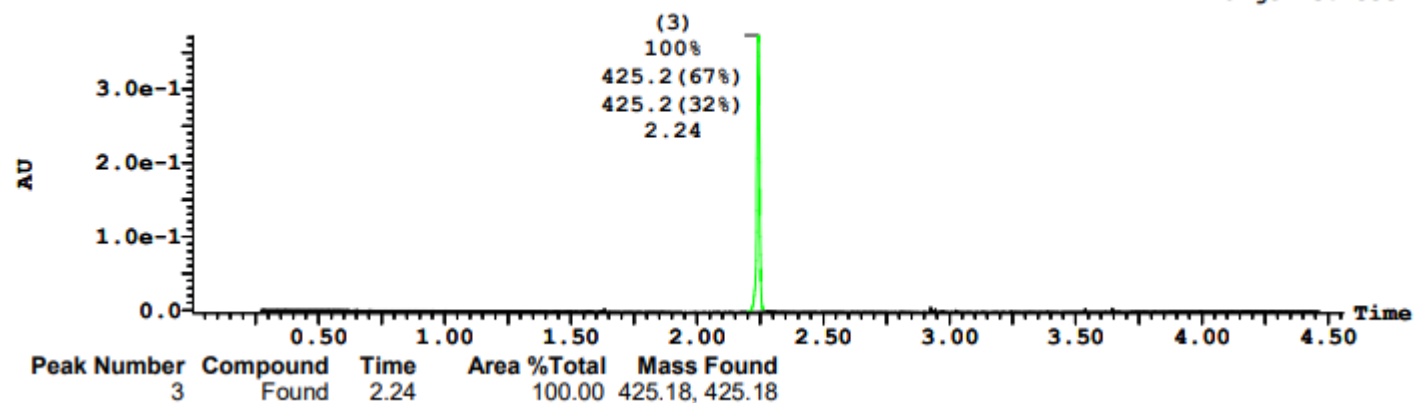


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

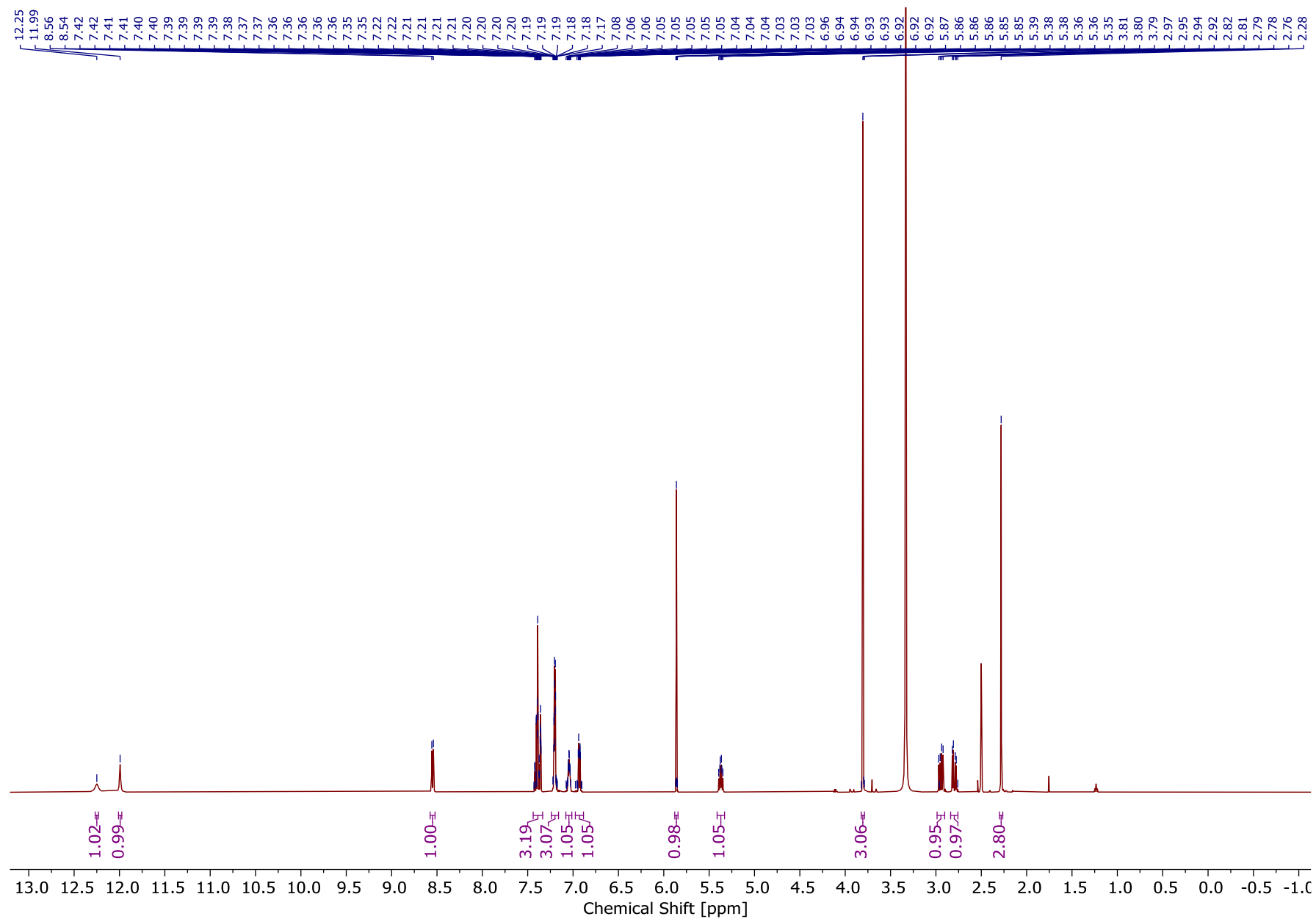
3.723e-1

Range: 3.755e-1

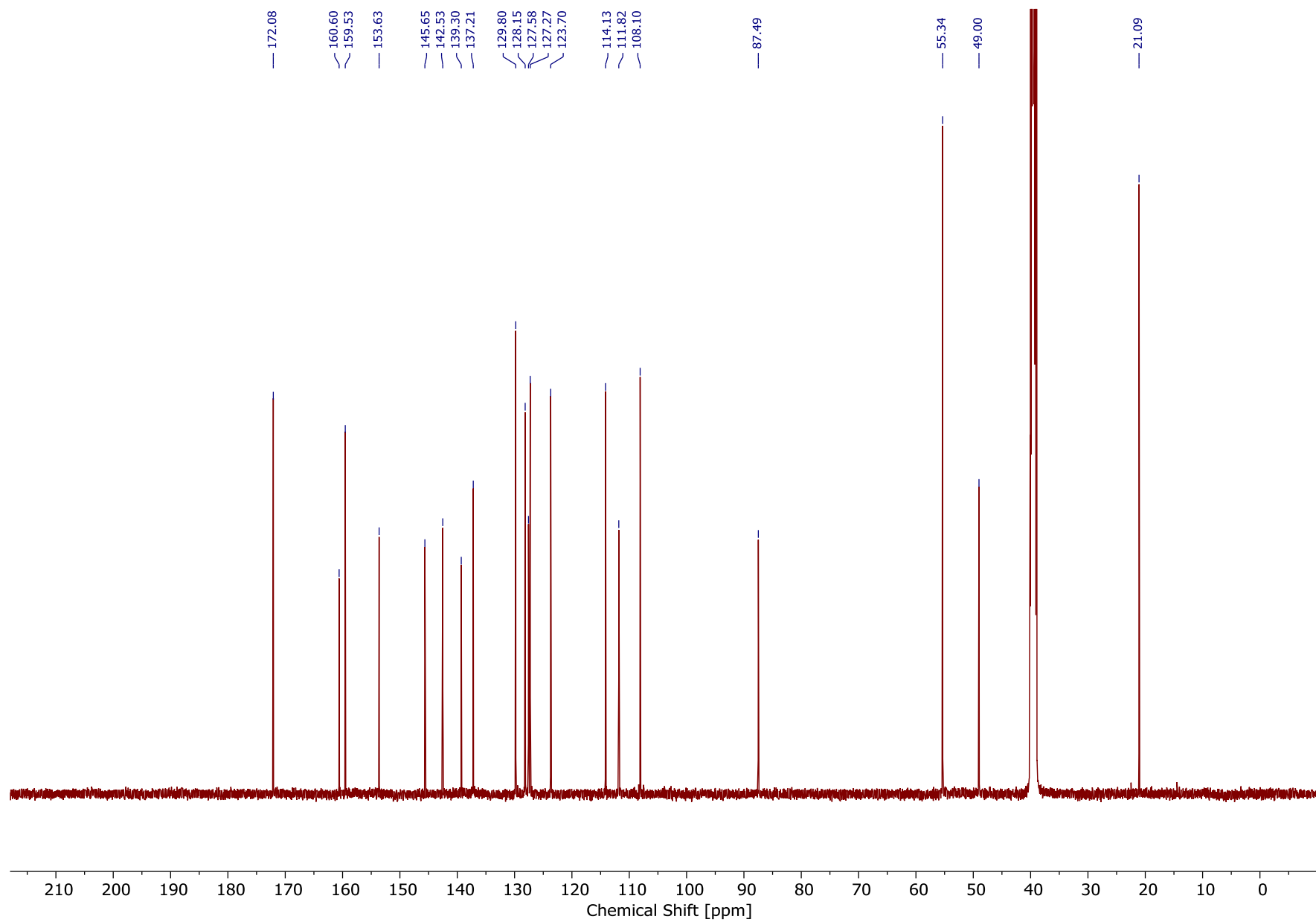


Compound 30:

^1H NMR:



¹³C{¹H} NMR:

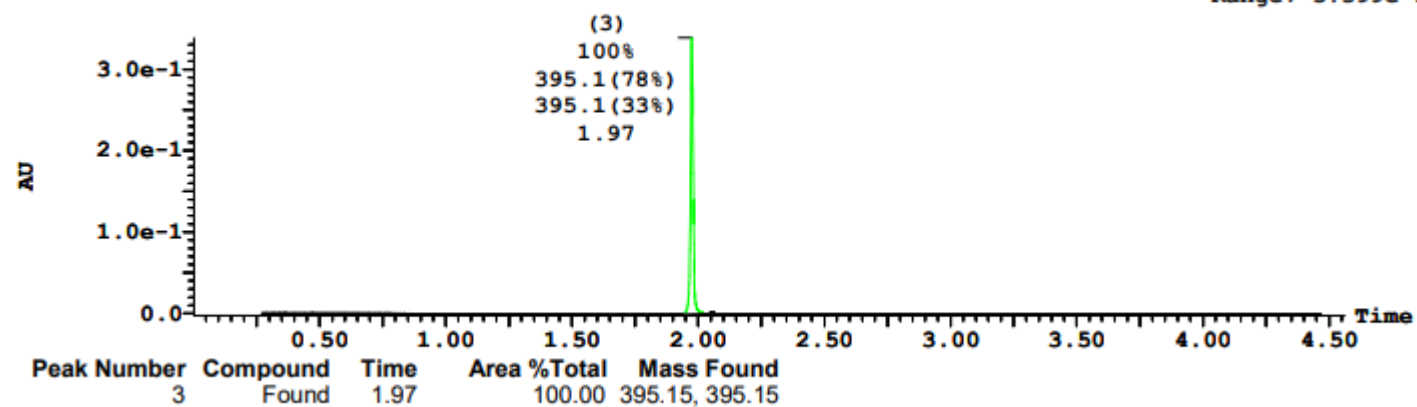


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

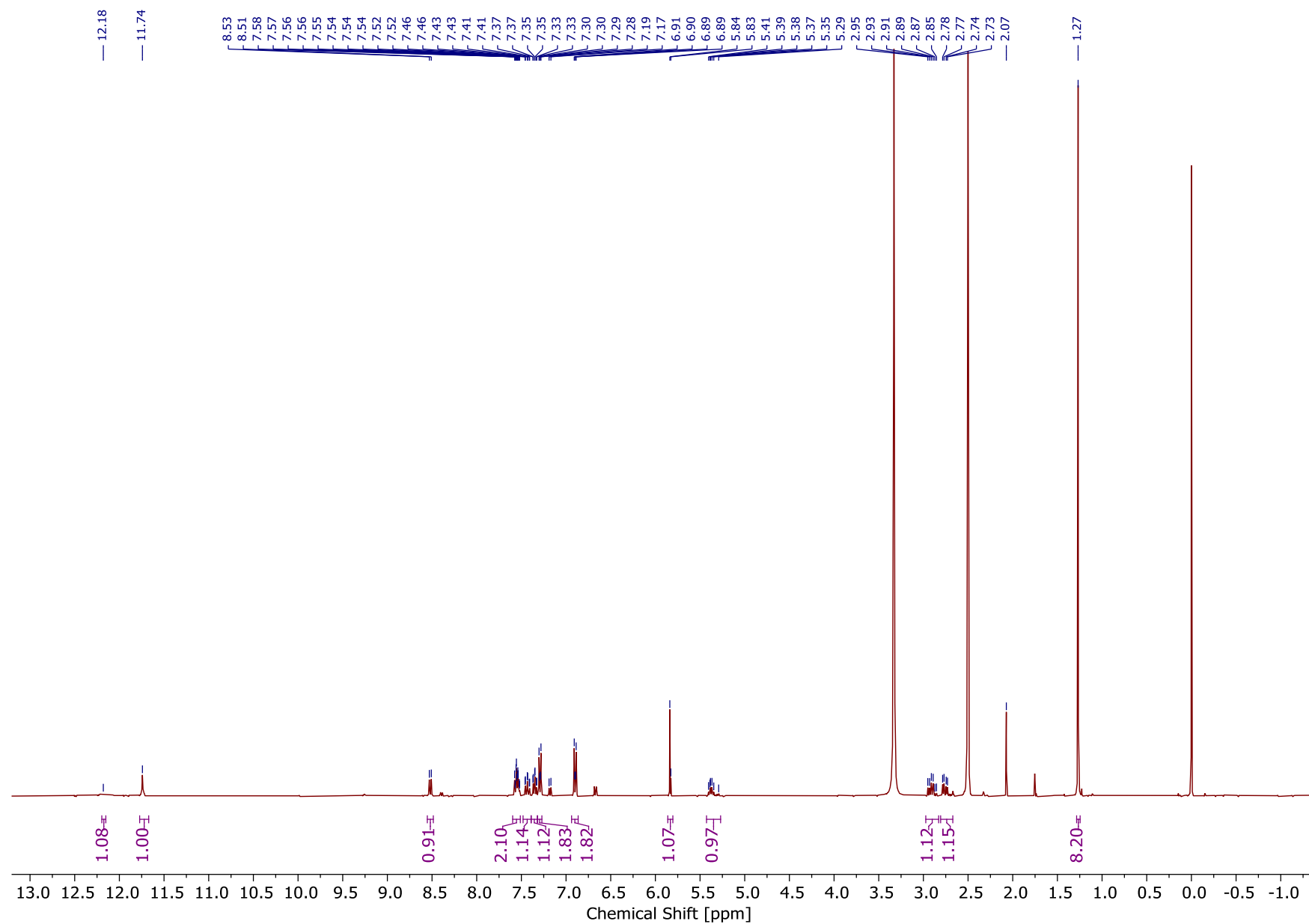
3.38e-1

Range: 3.399e-1



Compound 31:

^1H NMR:

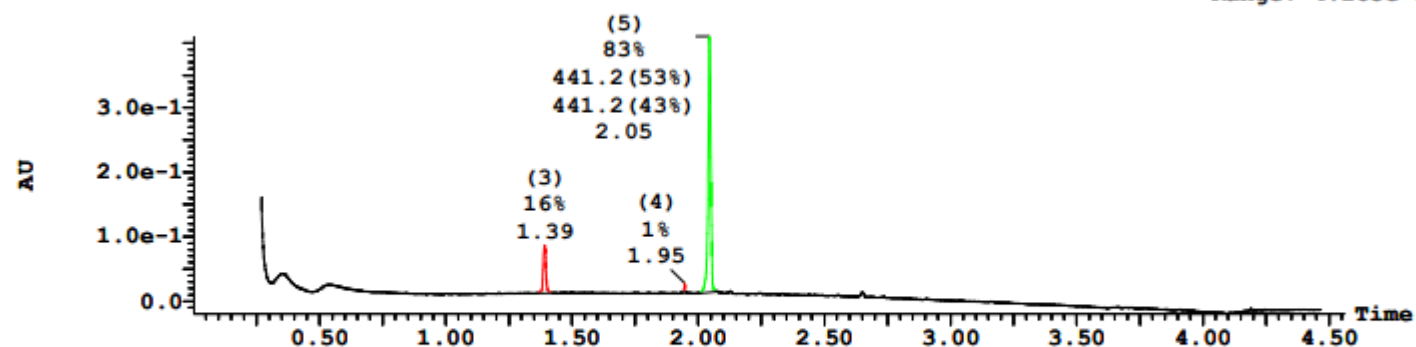


LCS-Chromatogram

3: UV Detector: 220 Nm 0.7600-4.0600

4.096e-1

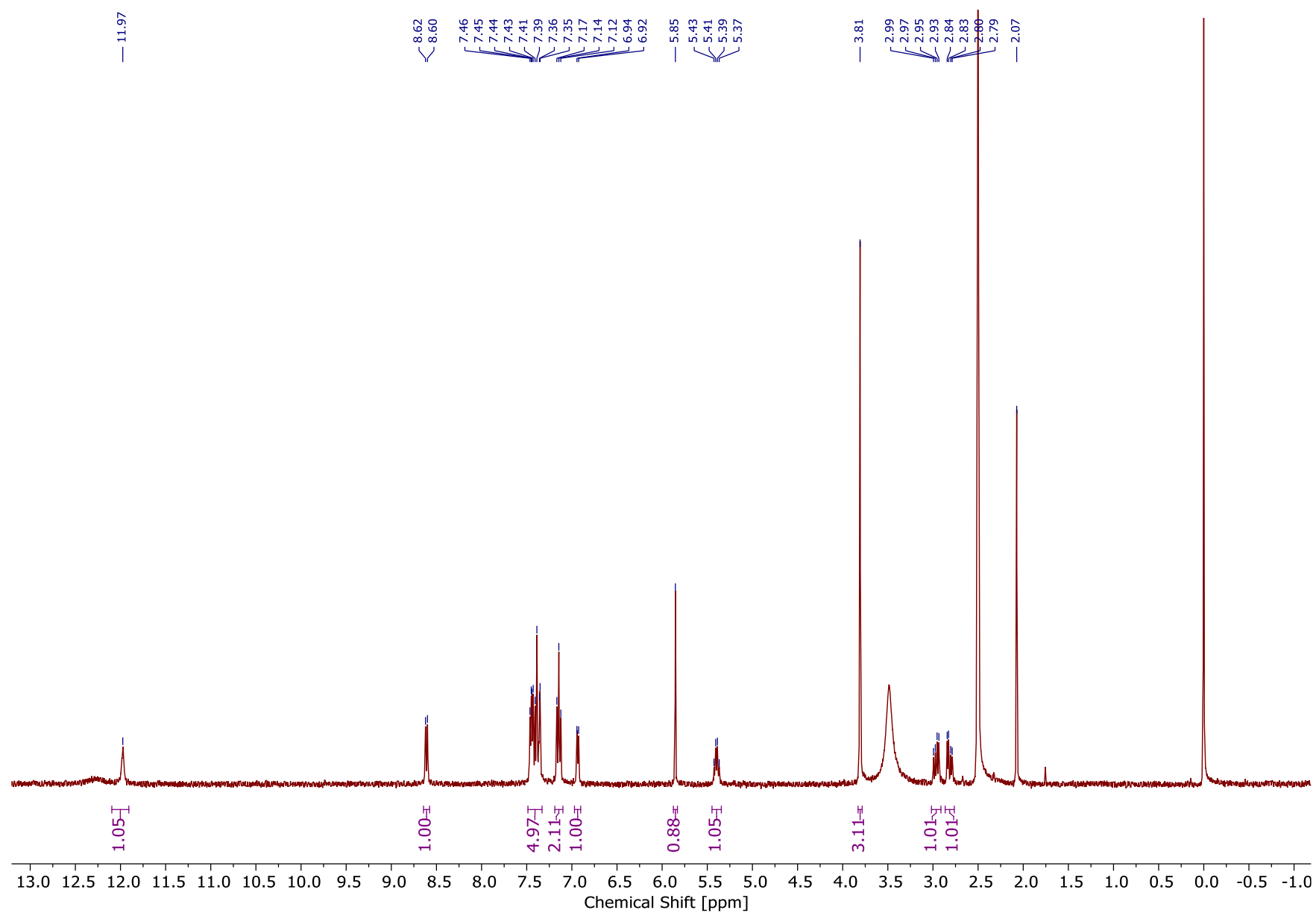
Range: 4.285e-1



Peak Number	Compound	Time	Area %Total	Mass Found
3		1.39	15.64	Not Found
4		1.95	1.00	Not Found
5	Found	2.05	83.37	441.17, 441.17

Compound 32:

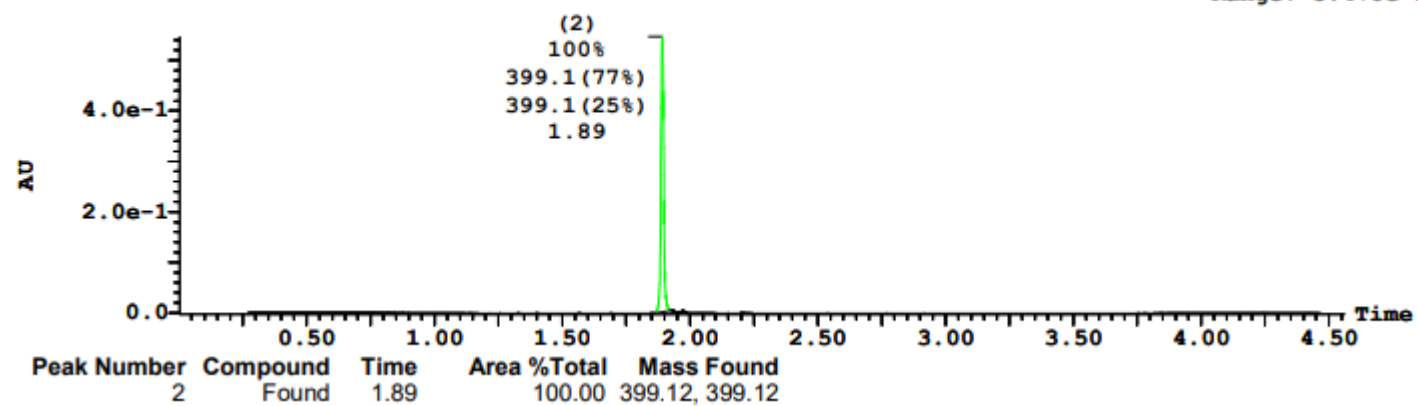
¹H-NMR



LCMS-Chromatogram

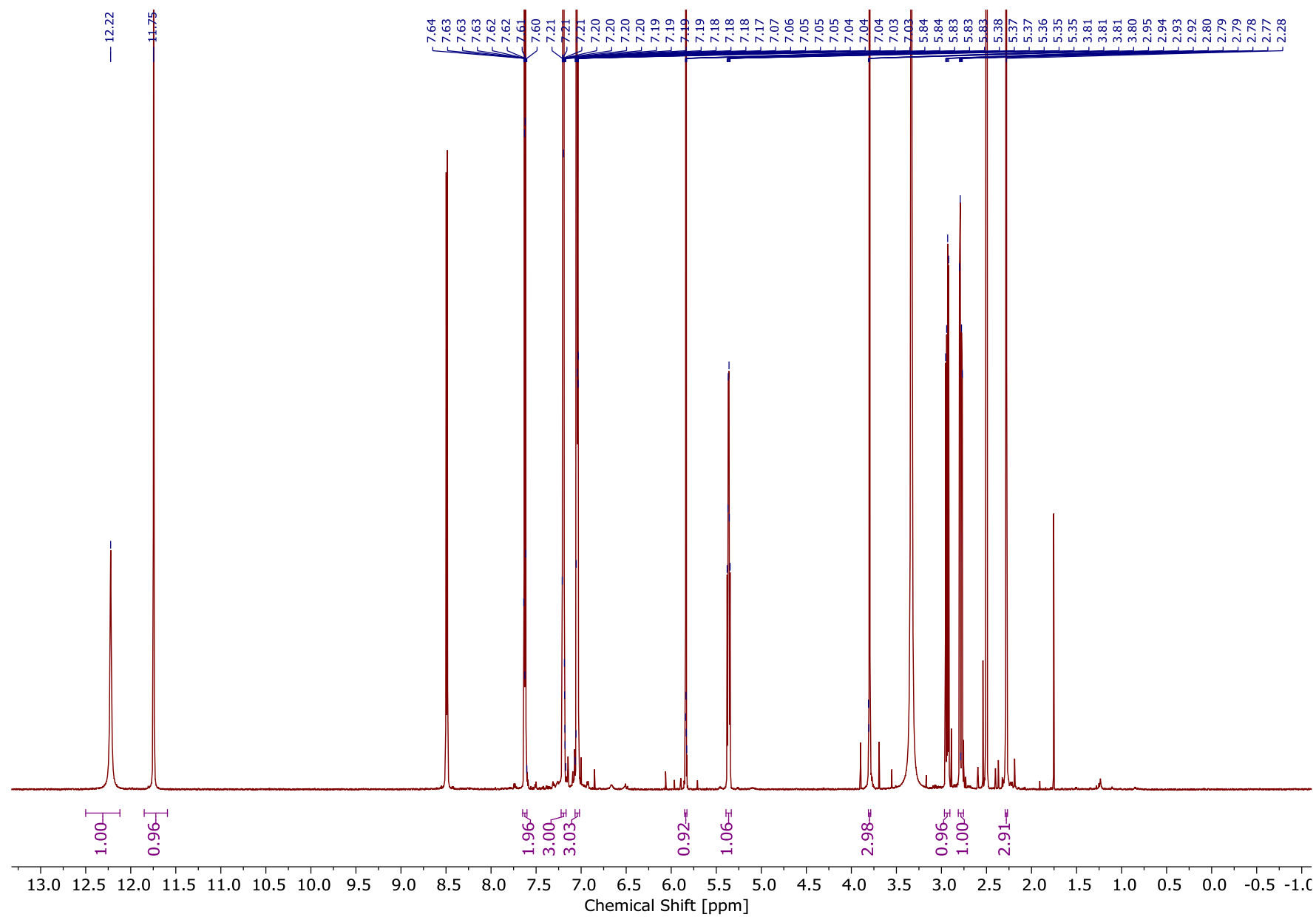
3: UV Detector: 254 Nm 0.7600-4.0600

5.46e-1
Range: 5.478e-1

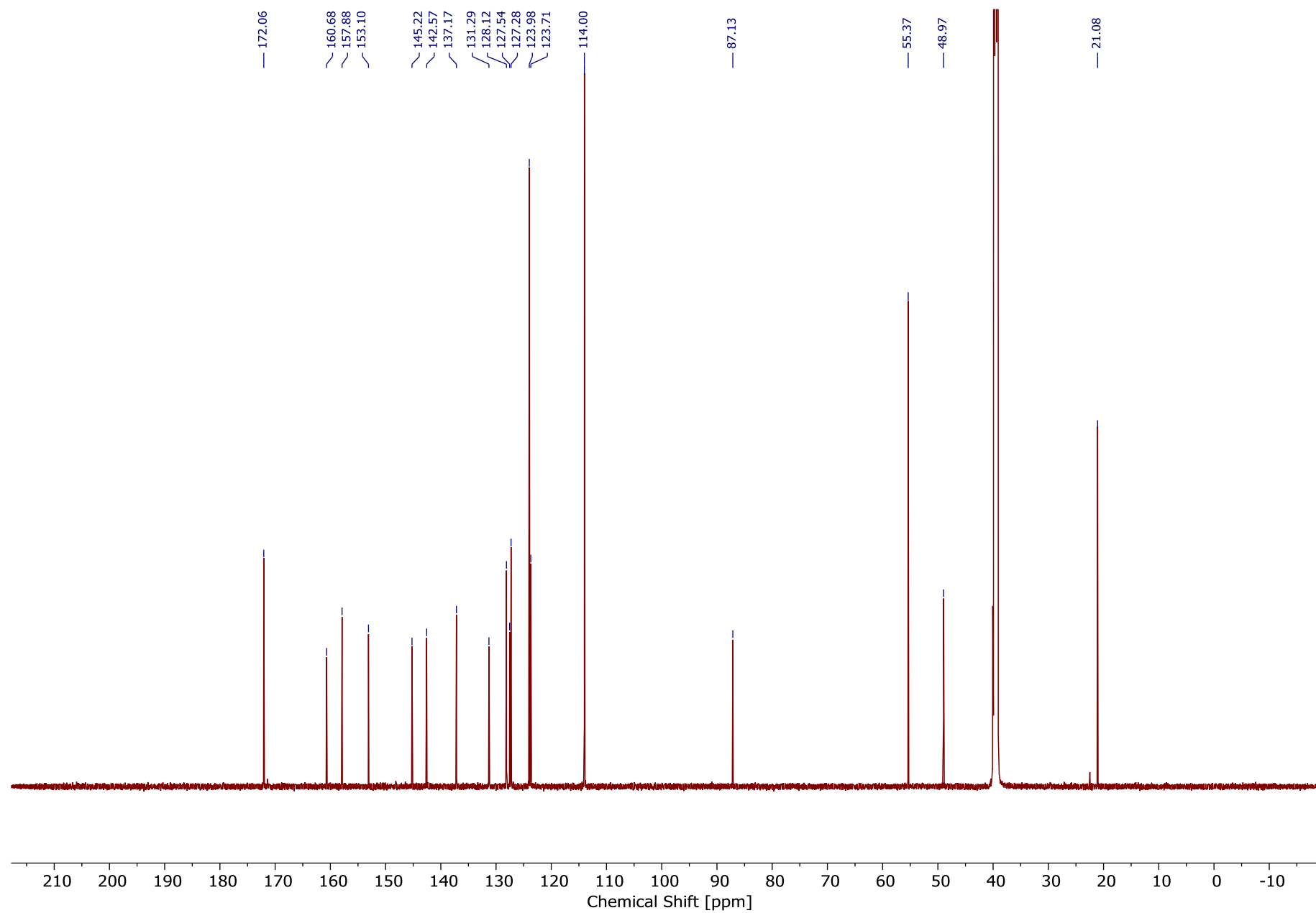


Compound 33:

¹H NMR:



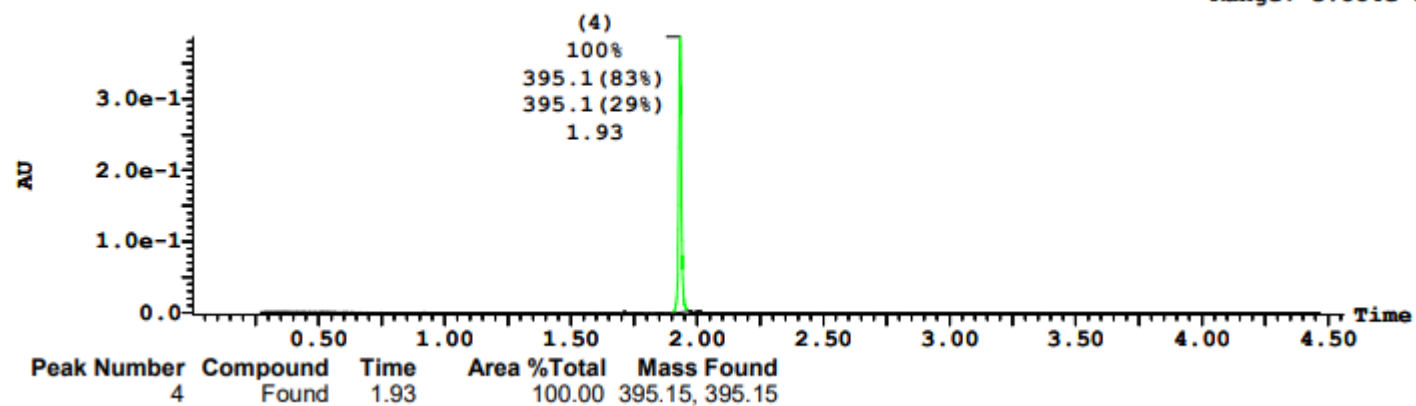
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

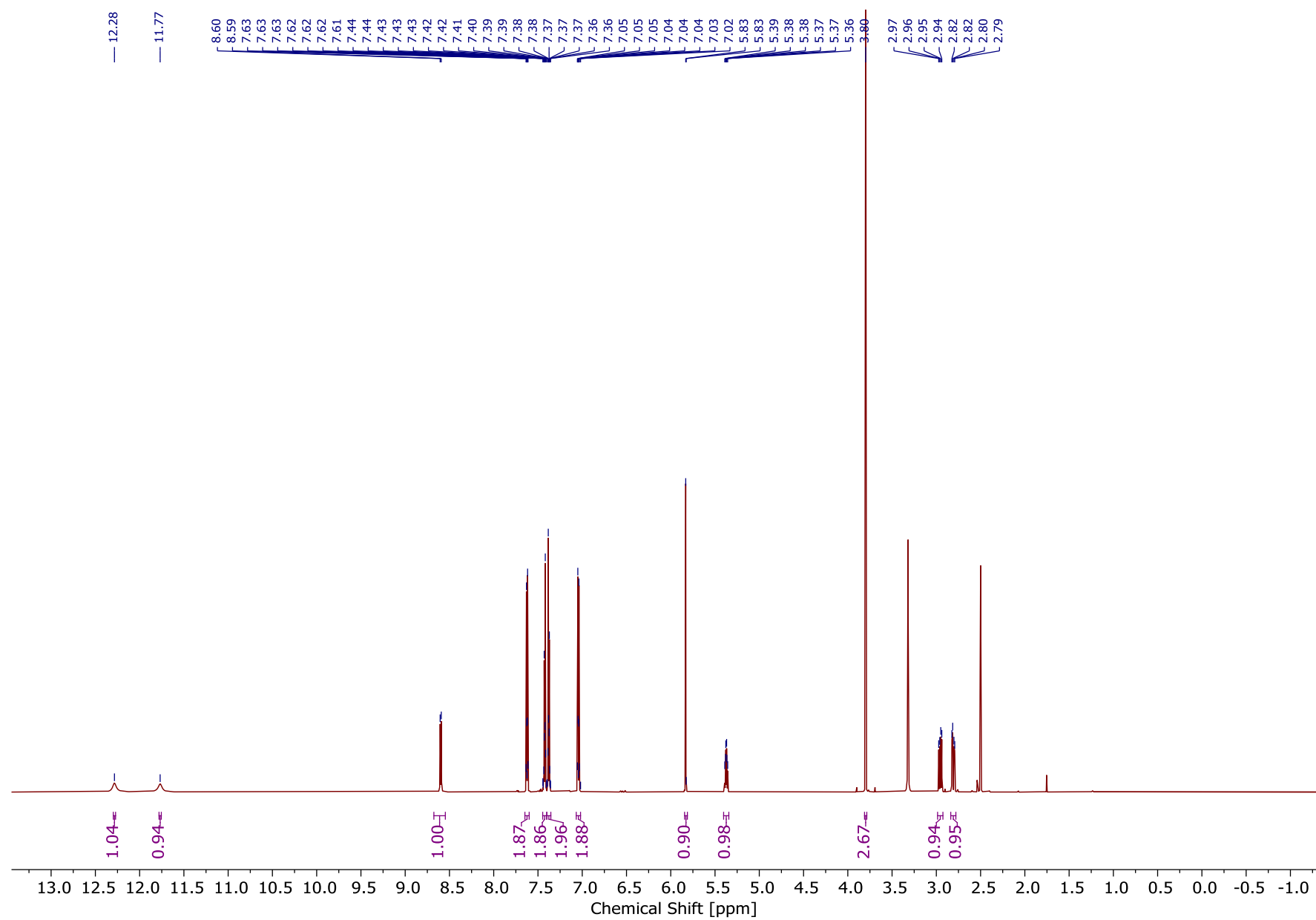
3: UV Detector: 254 Nm 0.7600-4.0600

3.867e-1
Range: 3.884e-1

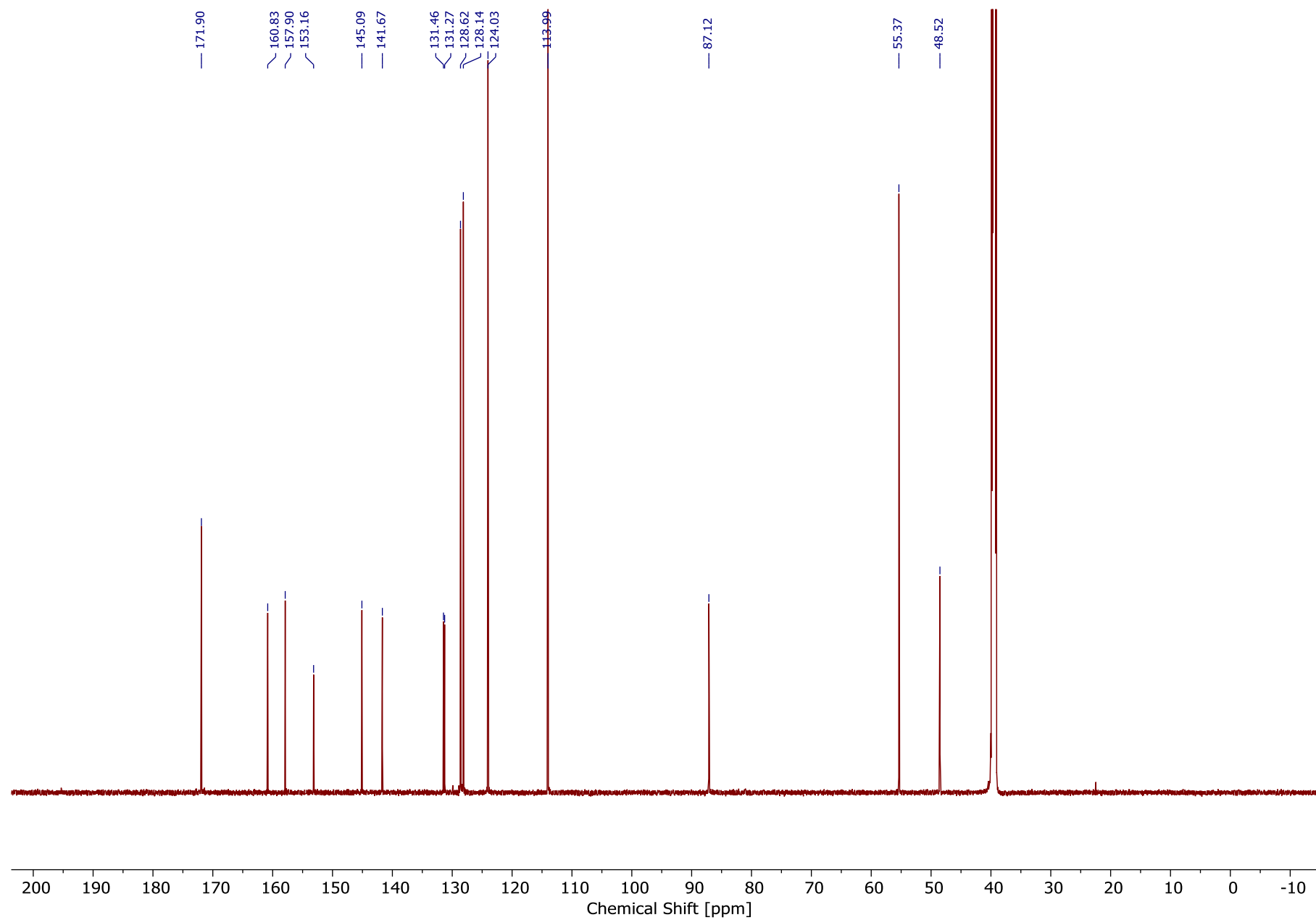


Compound 34:

^1H -NMR:



$^{13}\text{C}\{^1\text{H}\}$ NMR:

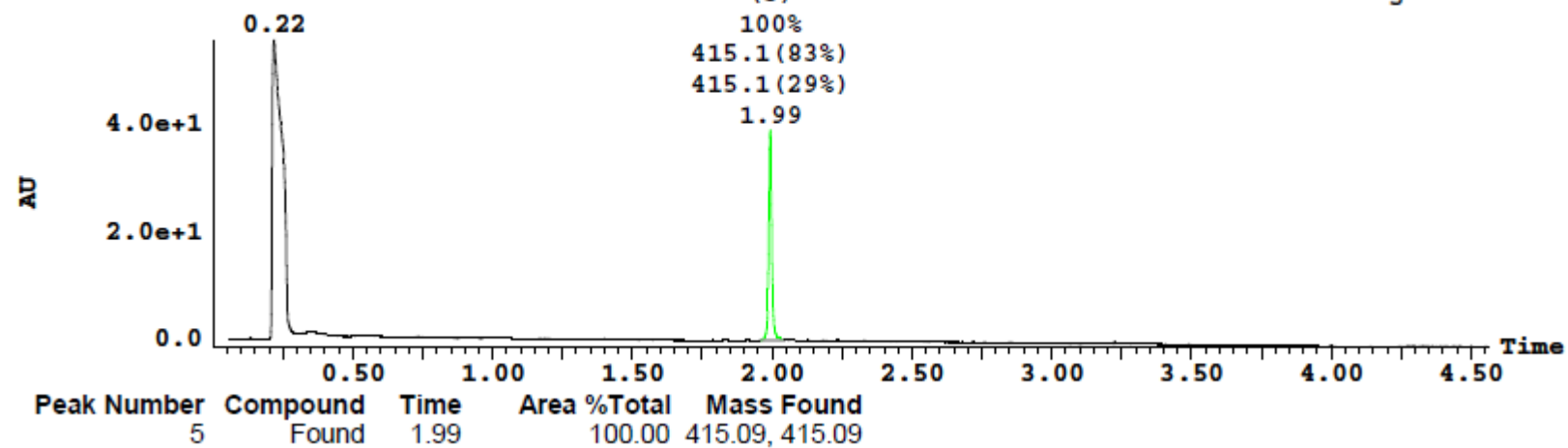


LCMS Chromatogram:

3: UV Detector: TAC: Wavelength Range: (210 - 400) 0.2700-4.4600

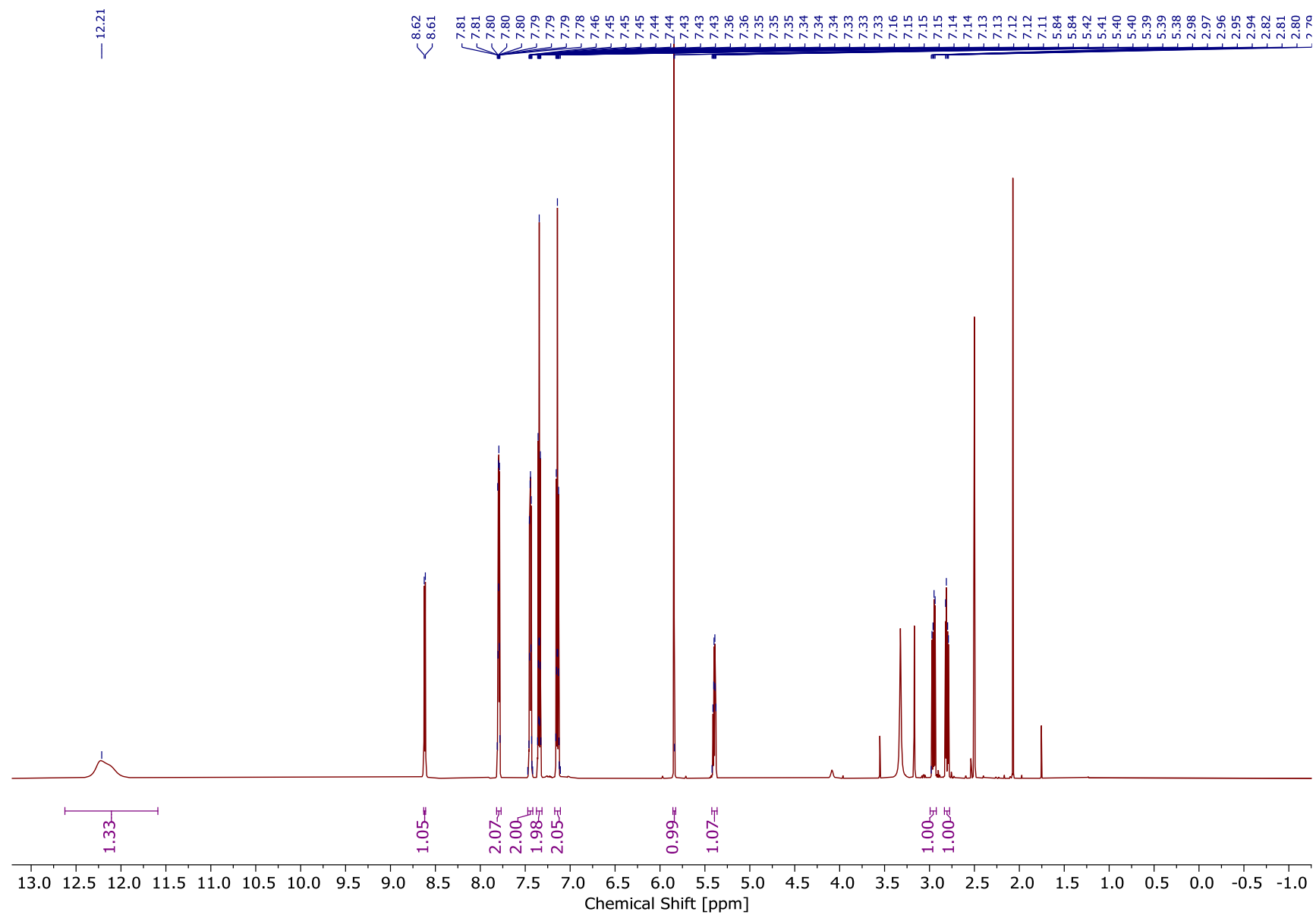
5.591e+1

Range: 5.744e+1

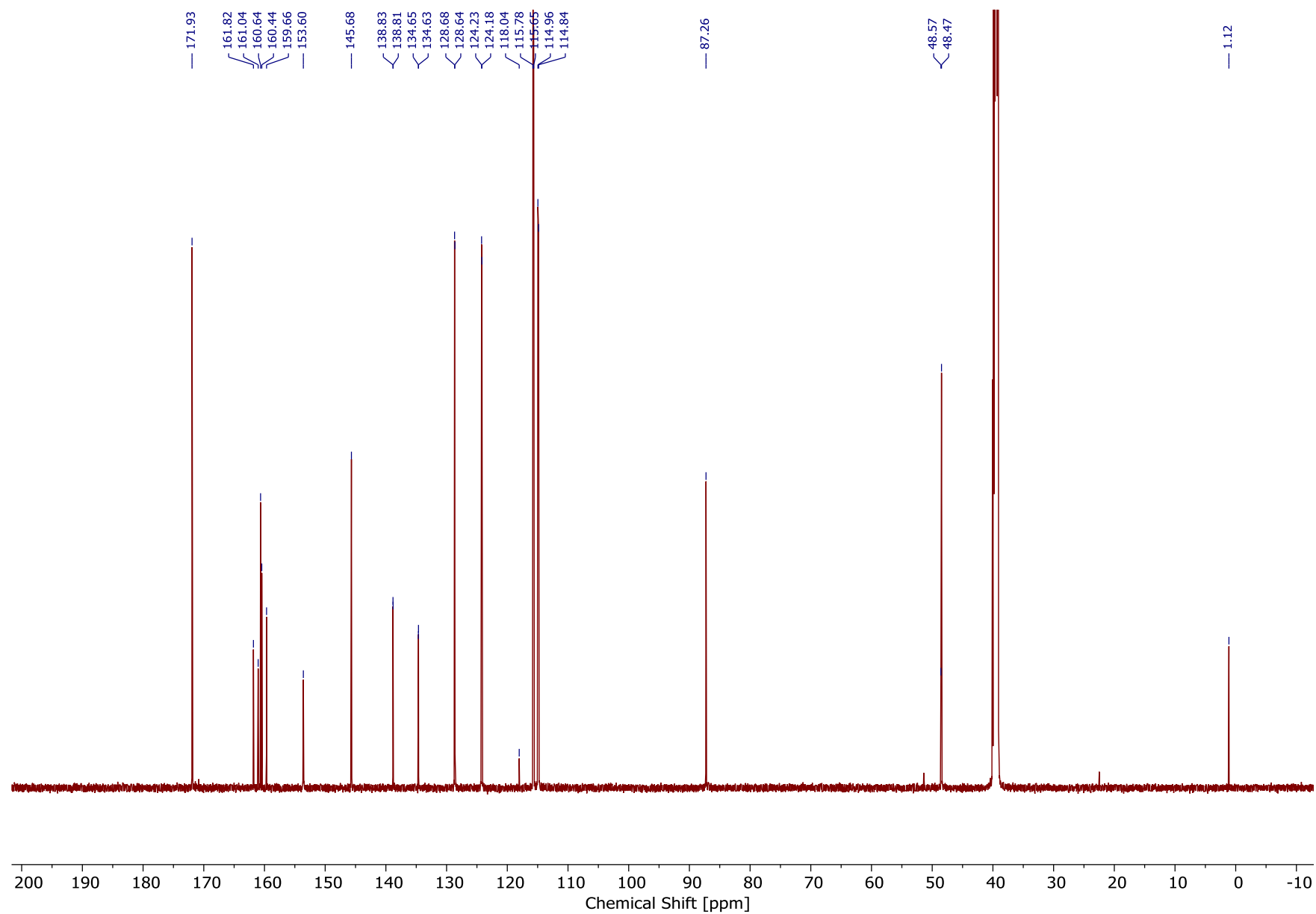


Compound 35:

^1H NMR



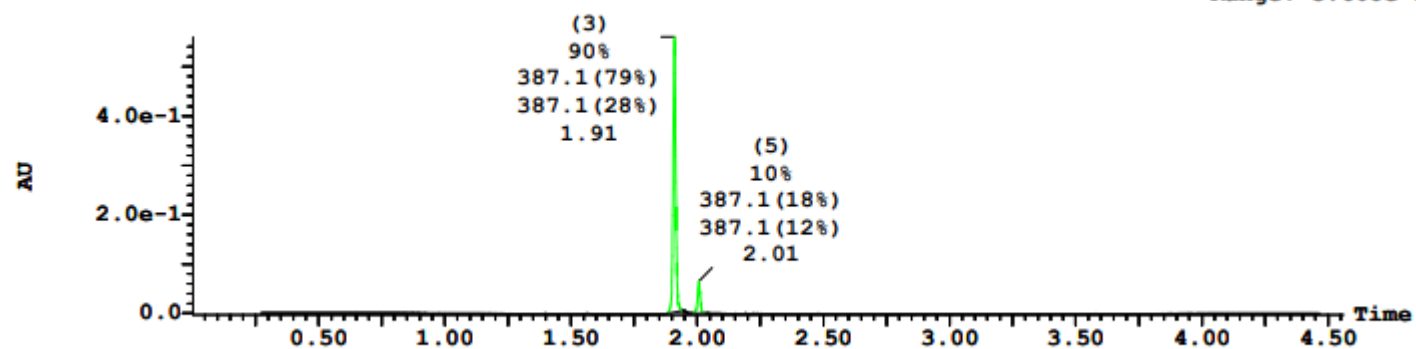
$^{13}\text{C}\{^1\text{H}\}$ NMR



LCMS-Chromatogram

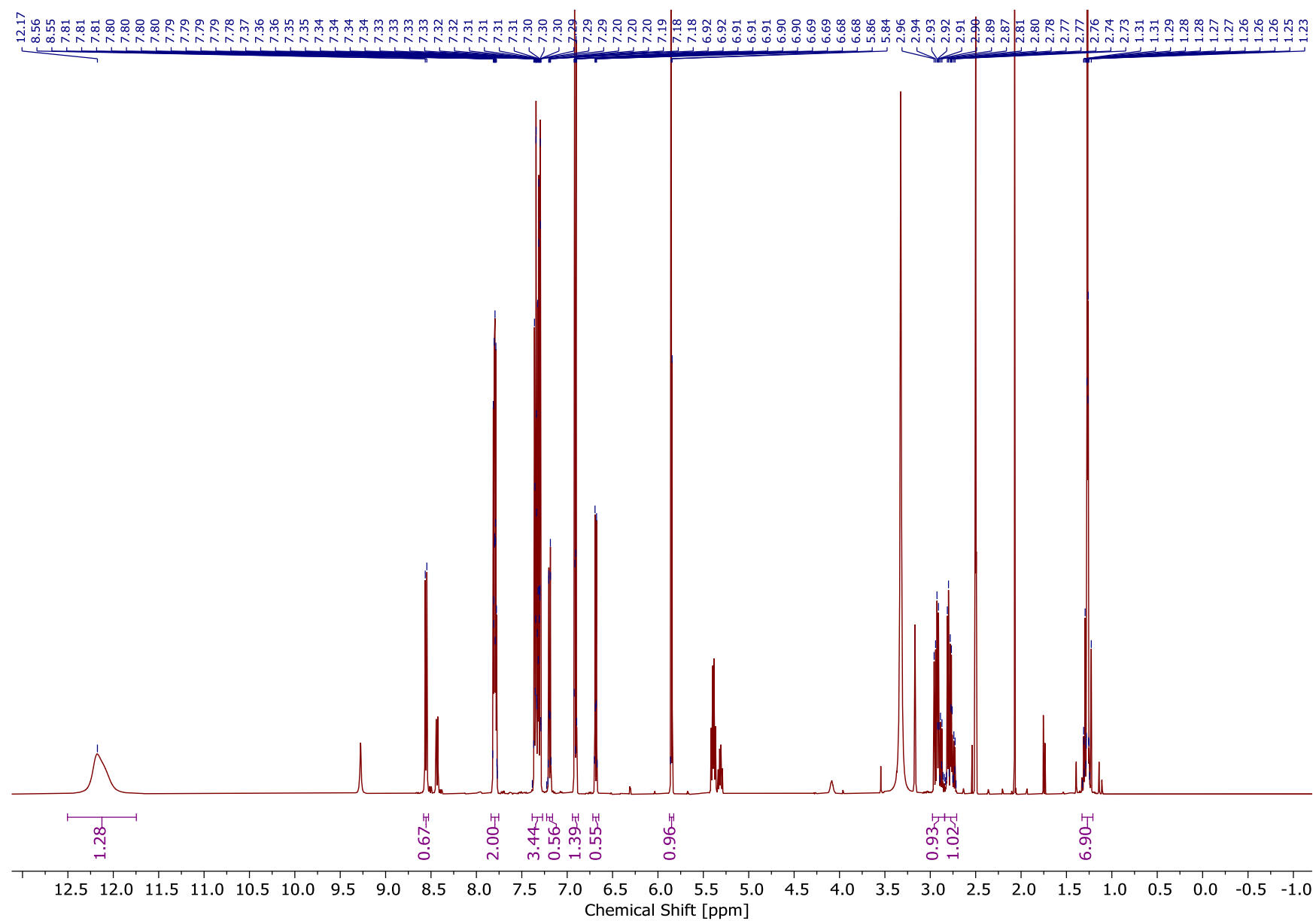
3: UV Detector: 254 Nm 0.7600-4.0600

5.59e-1
Range: 5.608e-1

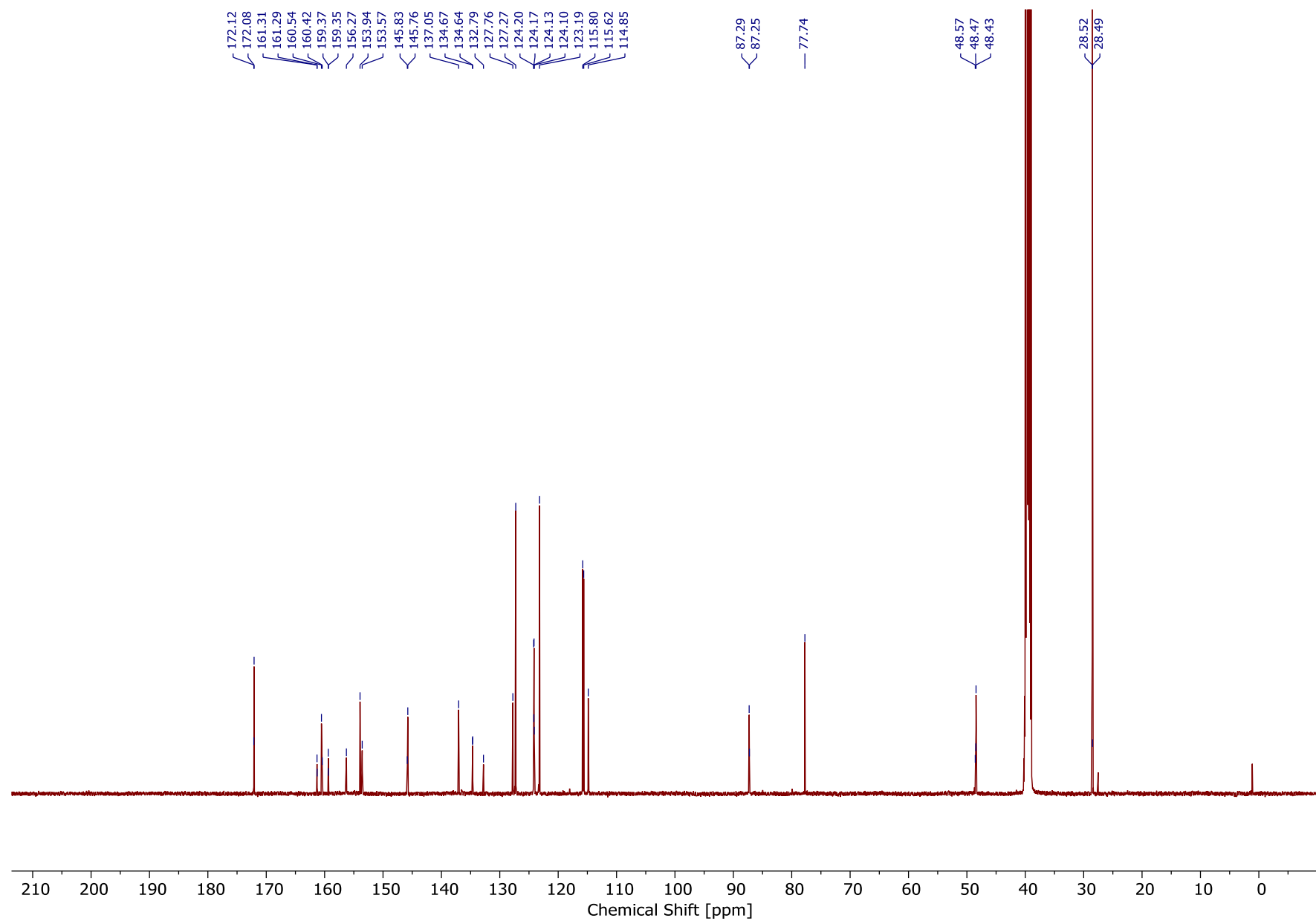


Compound 36:

¹H-NMR



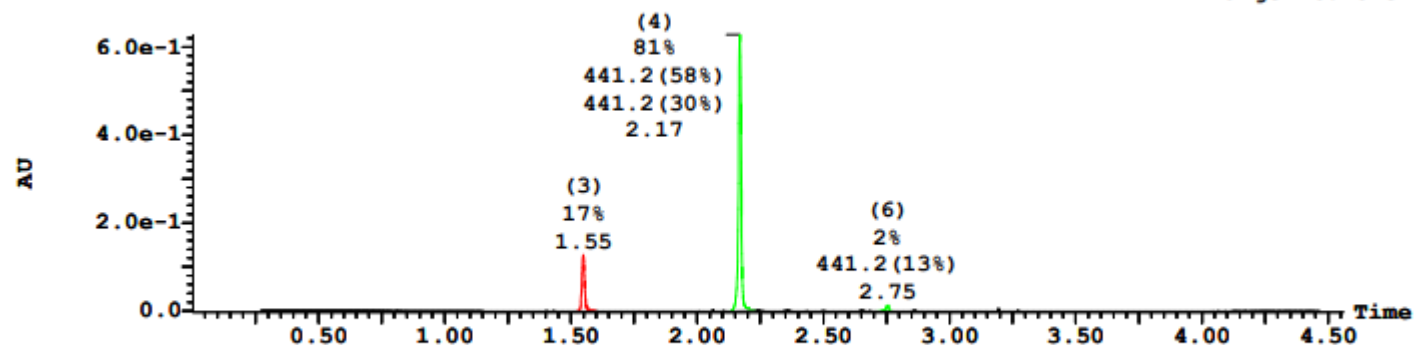
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

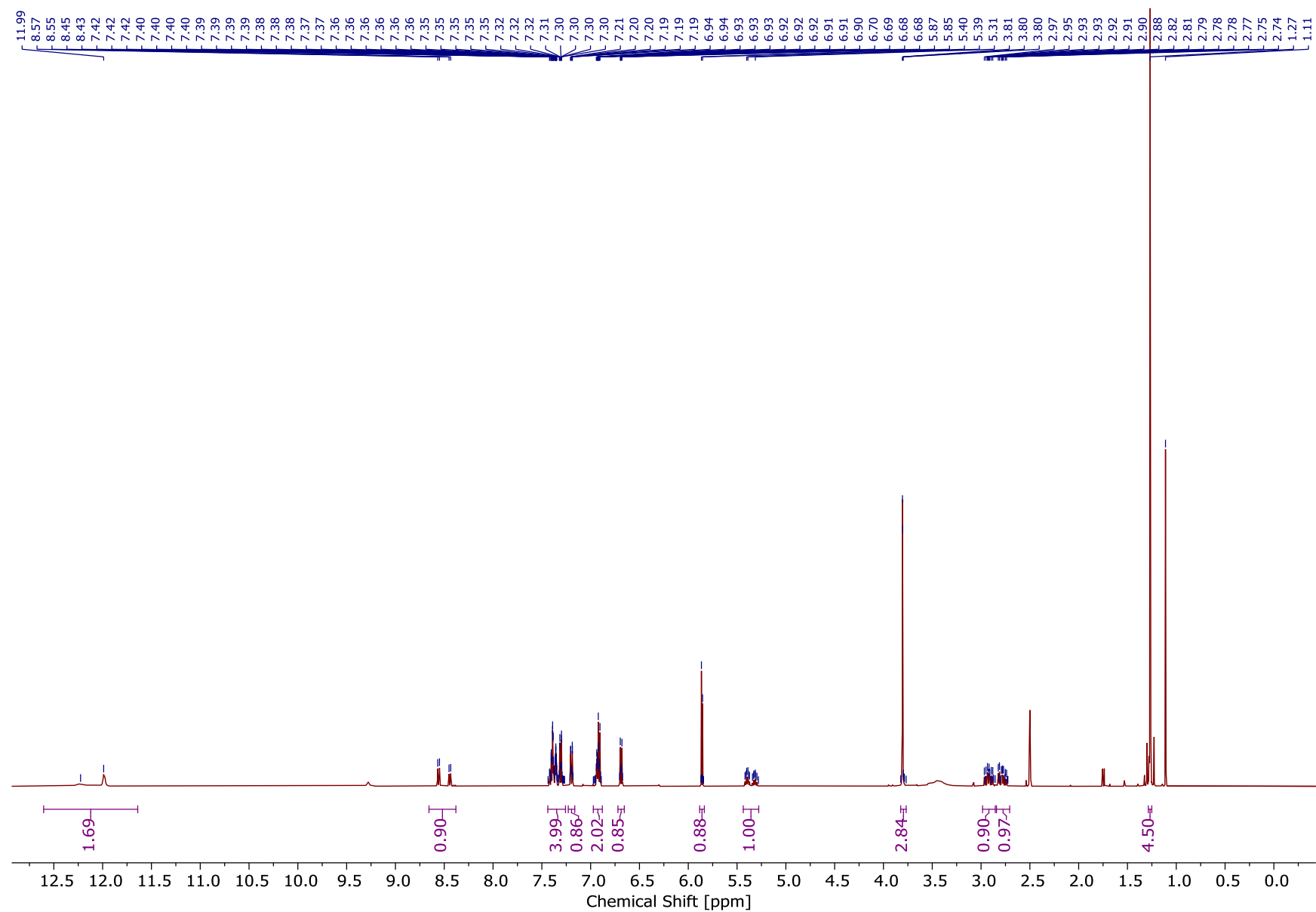
6.268e-1
Range: 6.287e-1



Peak Number	Compound	Time	Area %Total	Mass Found
3		1.55	16.94	Not Found
4	Found	2.17	81.16	441.17, 441.17
6	Tentative	2.75	1.90	441.17

Compound 37:

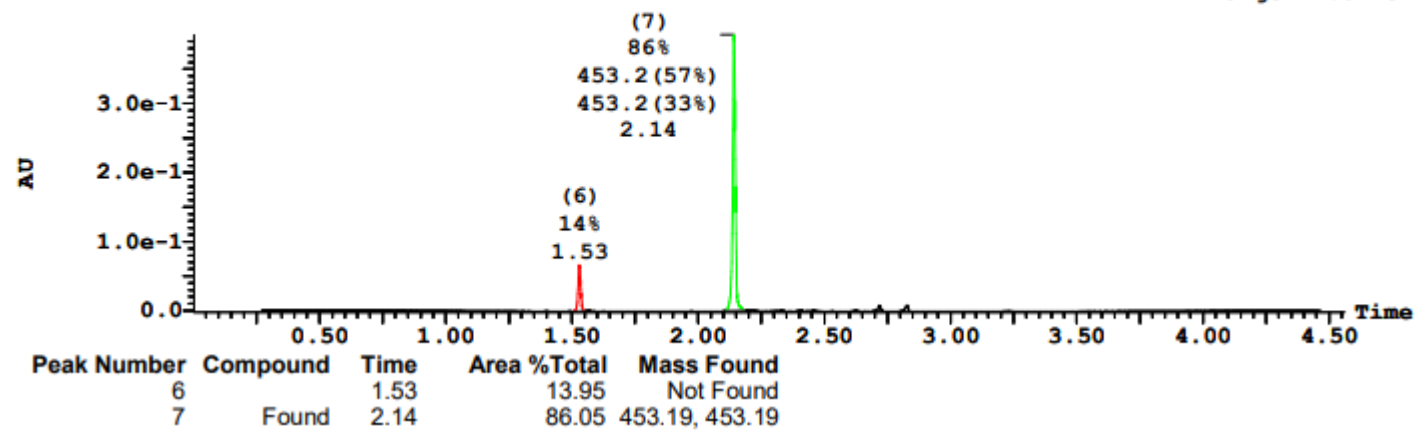
¹H-NMR:



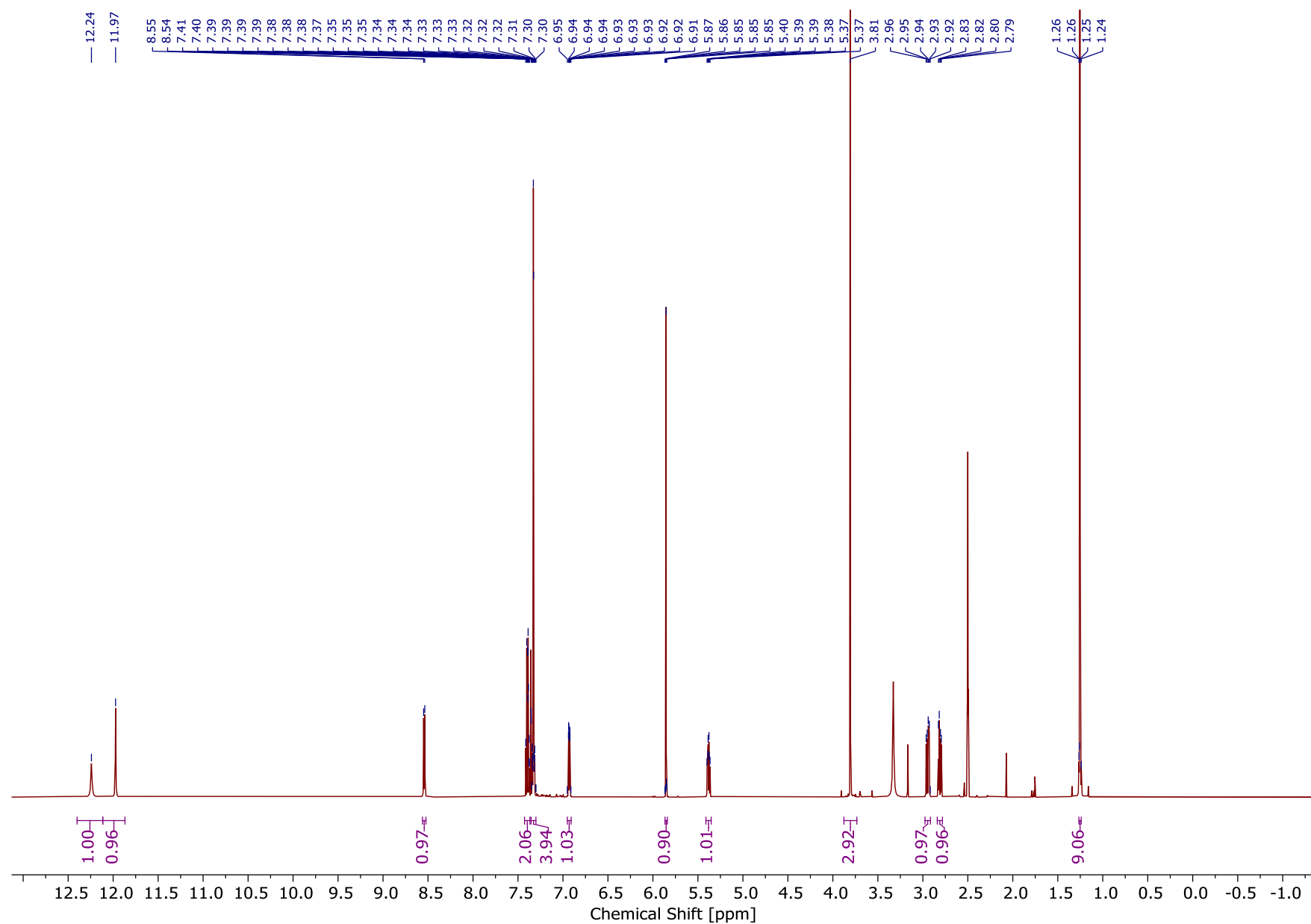
LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

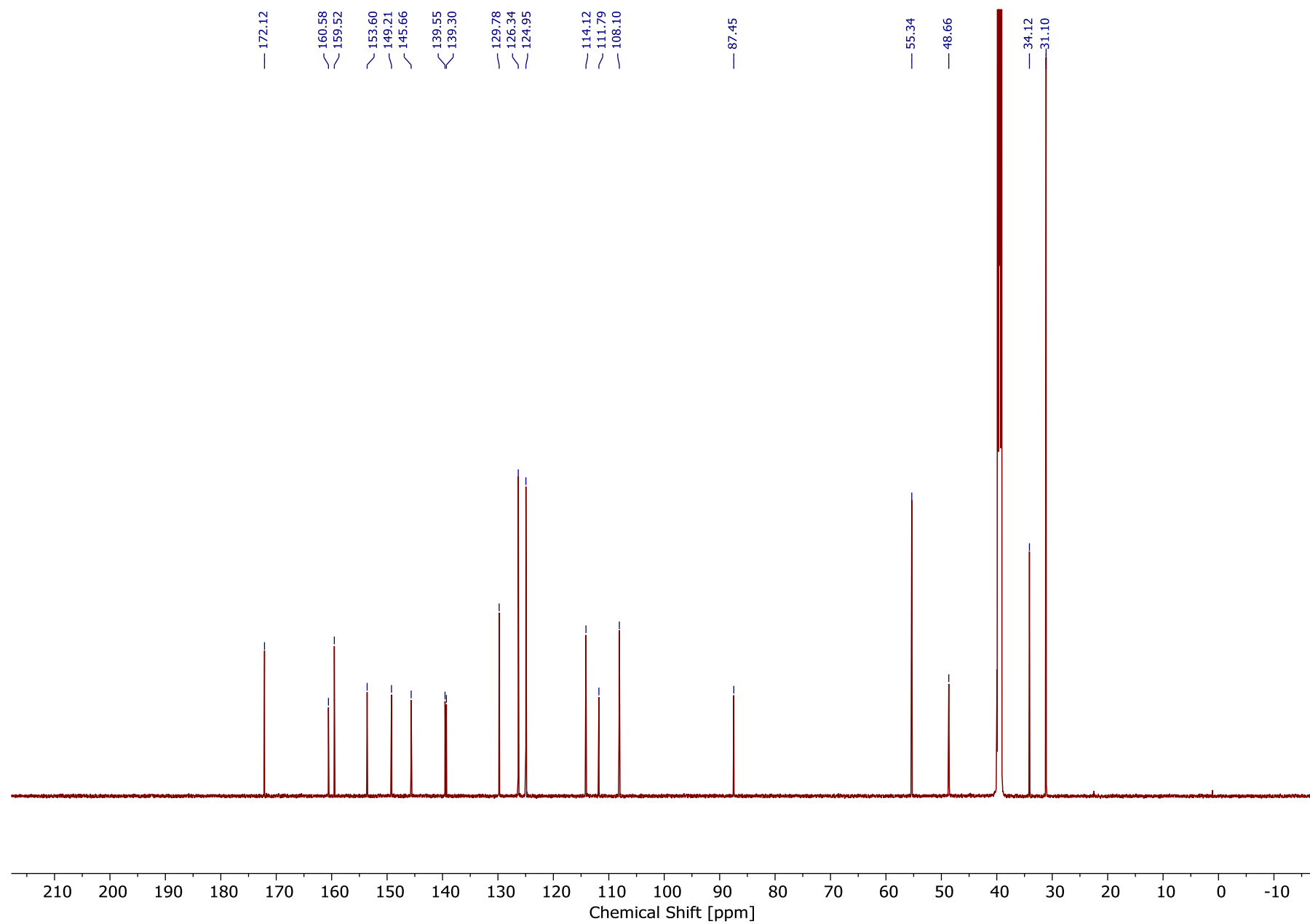
3.994e-1
Range: 4.011e-1



1H NMR



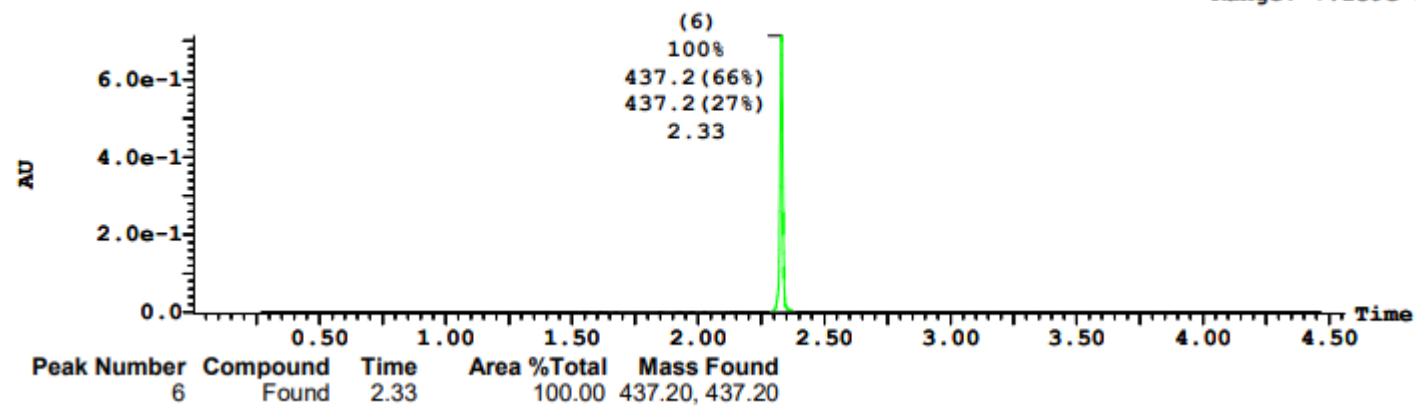
$^{13}\text{C}\{^1\text{H}\}$ NMR



LCMS-Chromatogram:

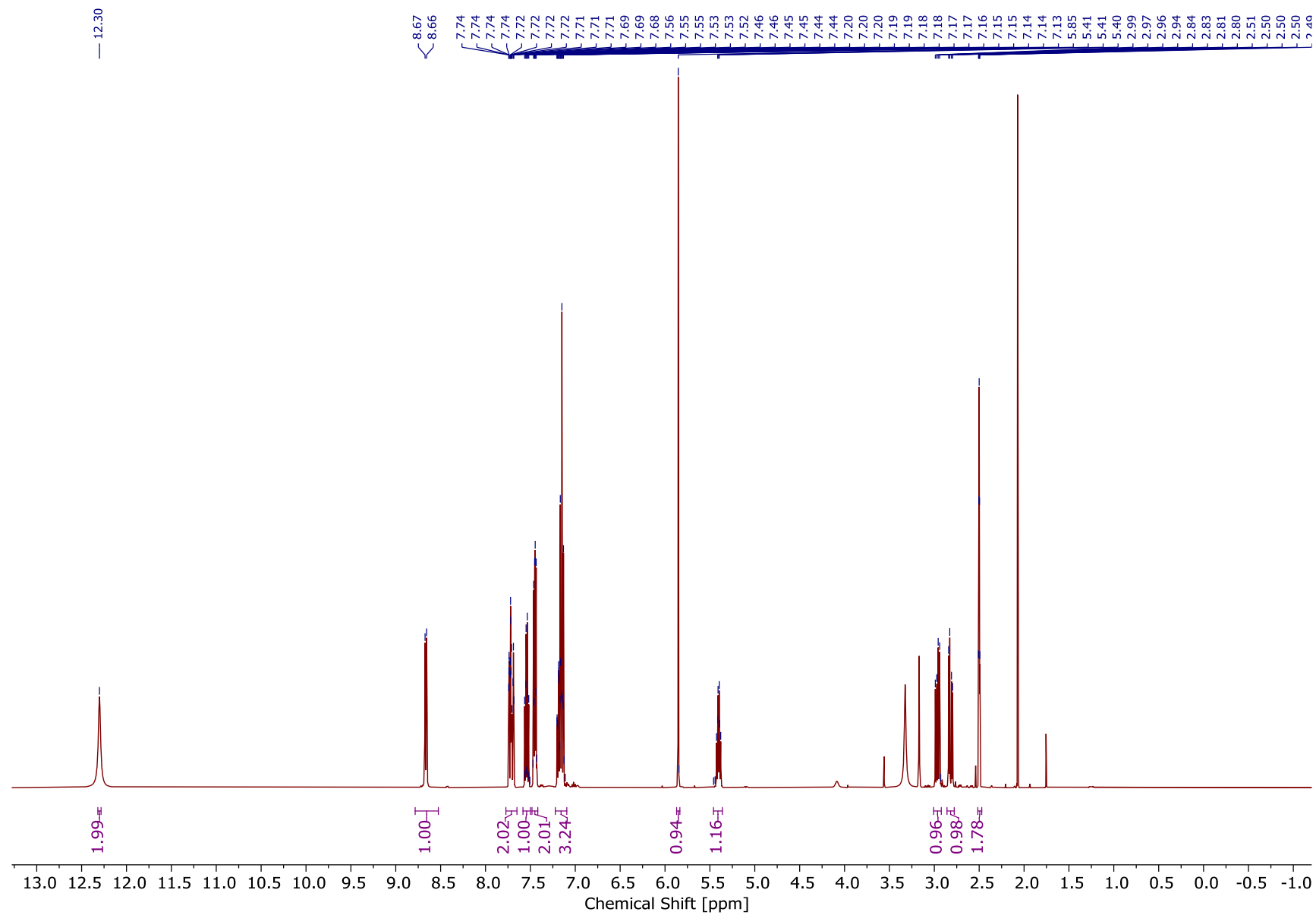
3: UV Detector: 254 Nm 0.7600-4.0600

7.119e-1
Range: 7.139e-1

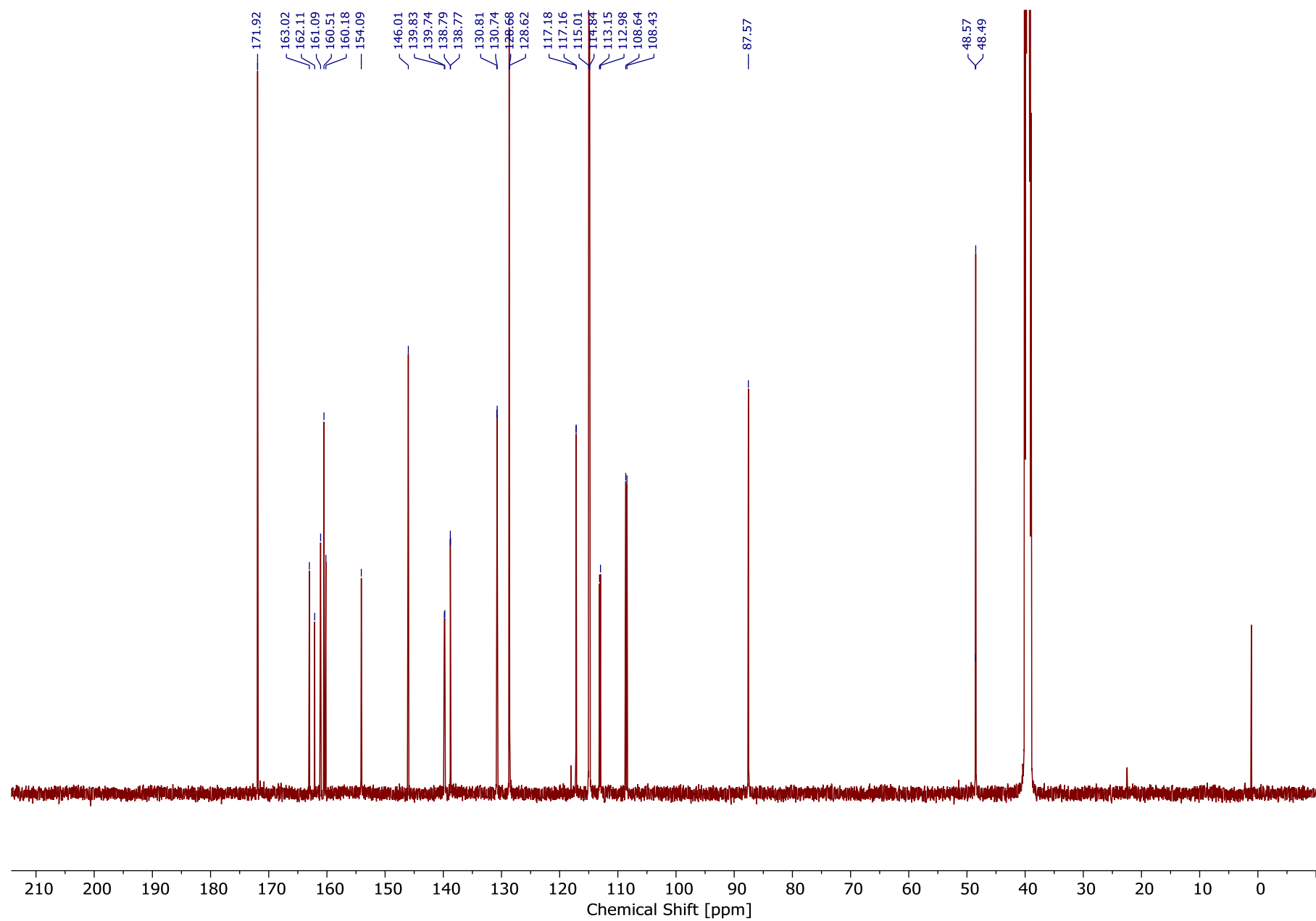


Compound 39:

¹H NMR



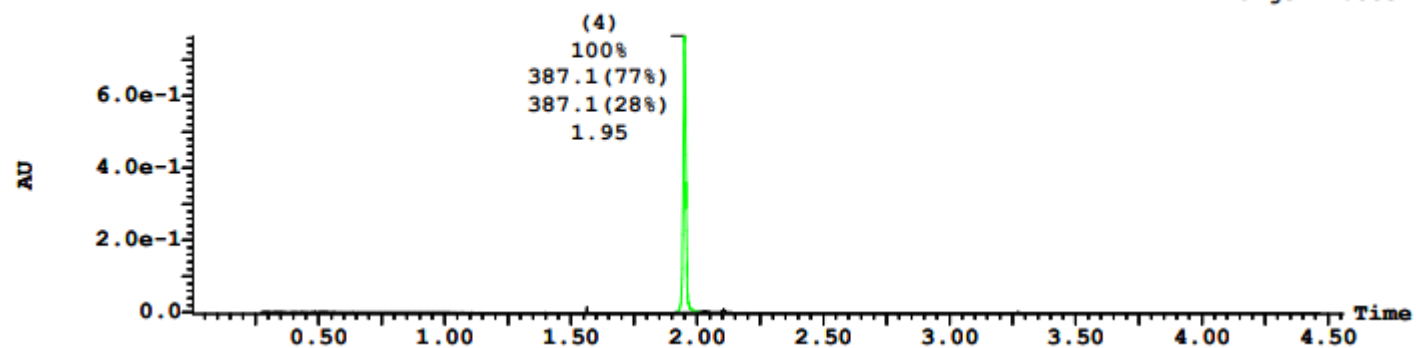
$^{13}\text{C}\{^1\text{H}\}$ NMR



LCMS-Chromatogram

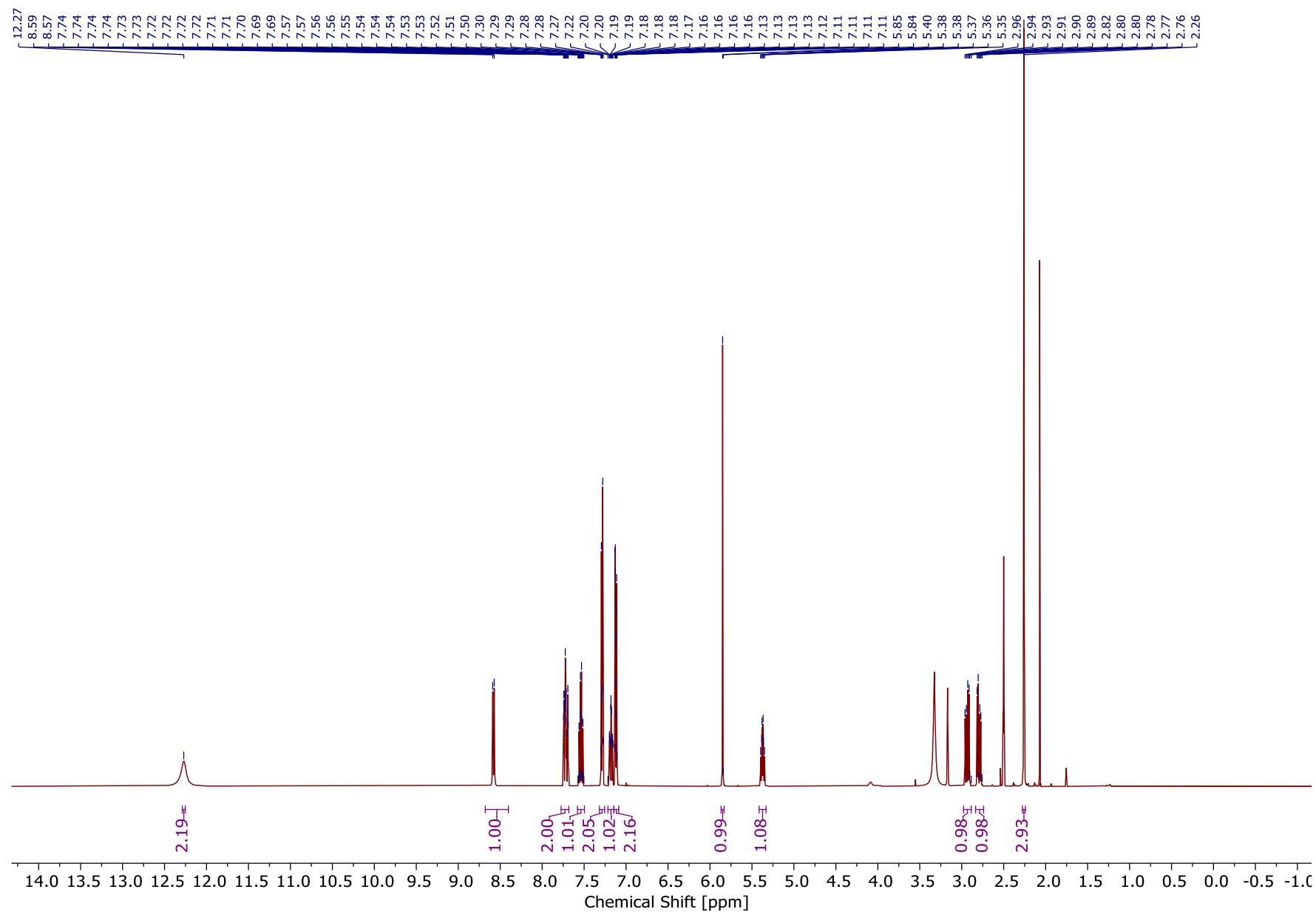
3: UV Detector: 254 Nm 0.7600-4.0600

7.638e-1
Range: 7.66e-1

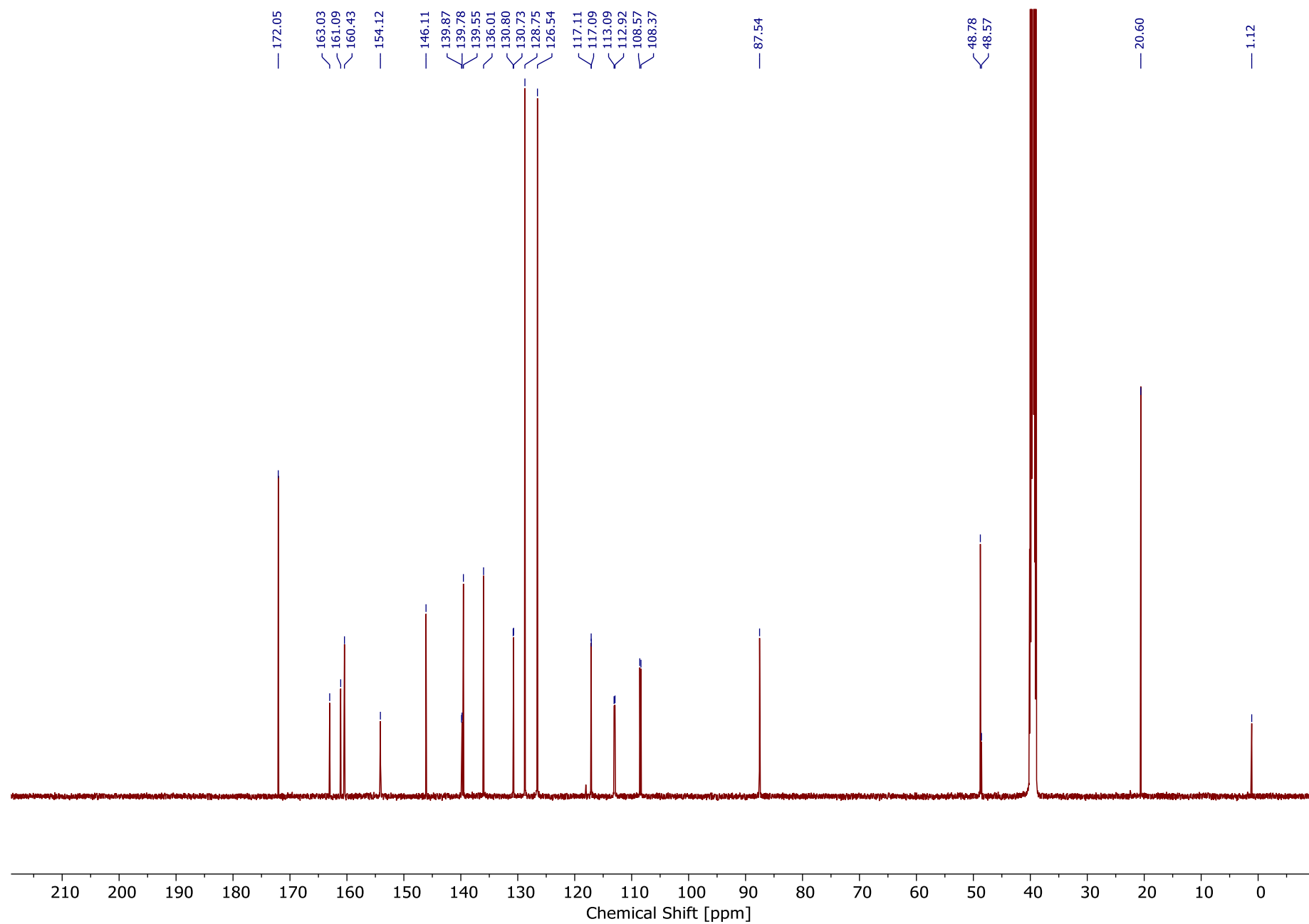


Compound 40:

¹H-NMR:



$^{13}\text{C}\{^1\text{H}\}$ NMR

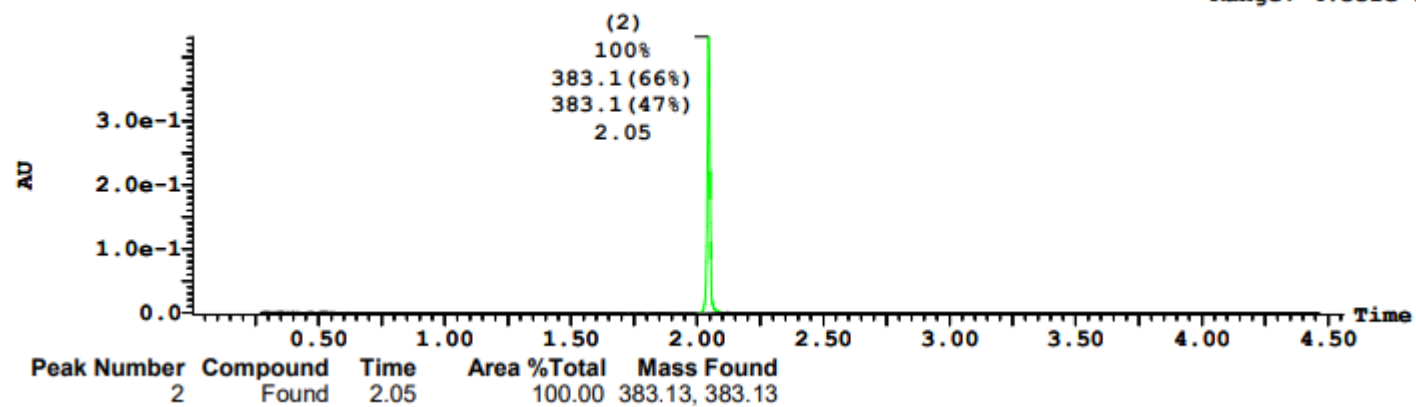


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

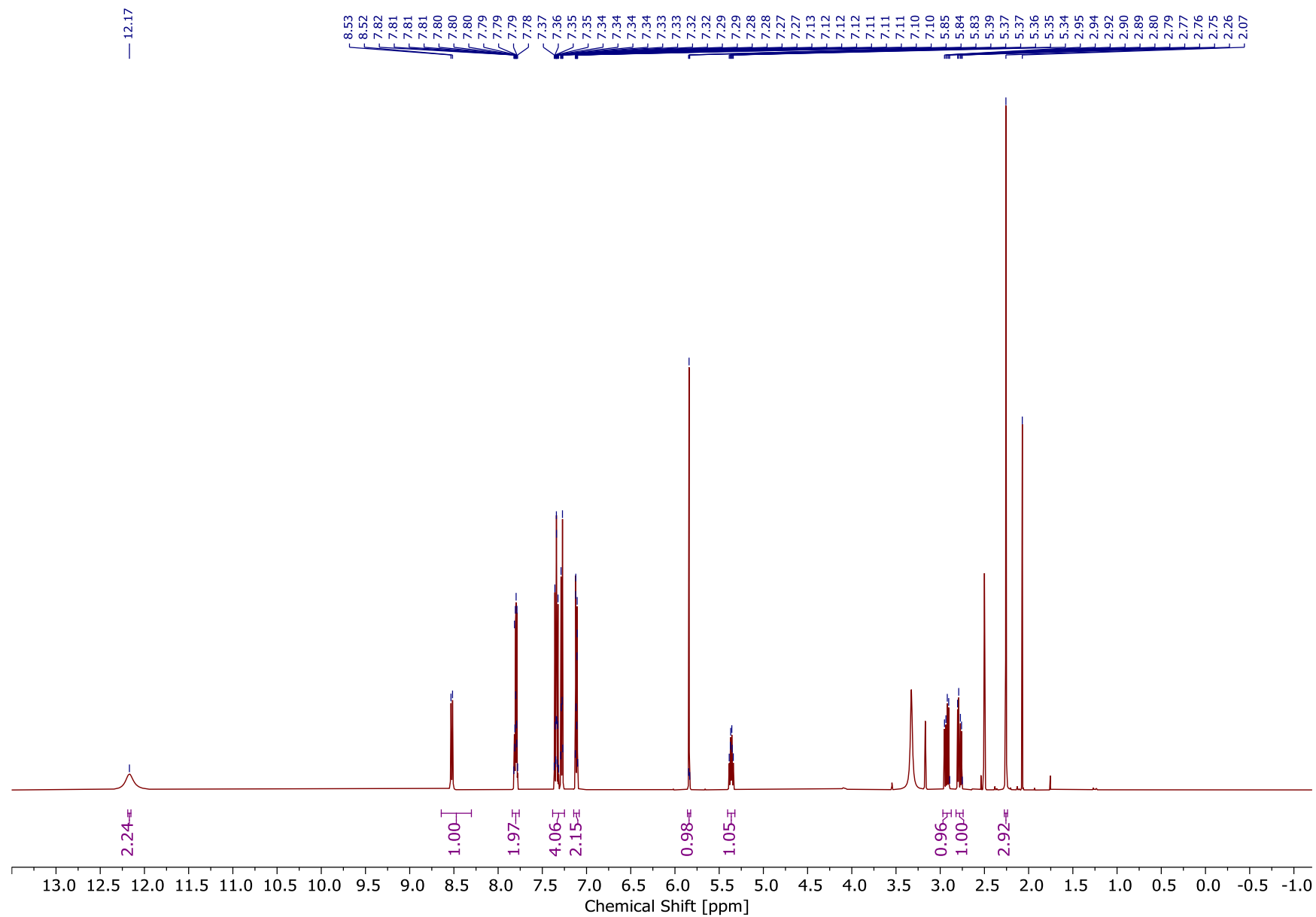
4.312e-1

Range: 4.331e-1

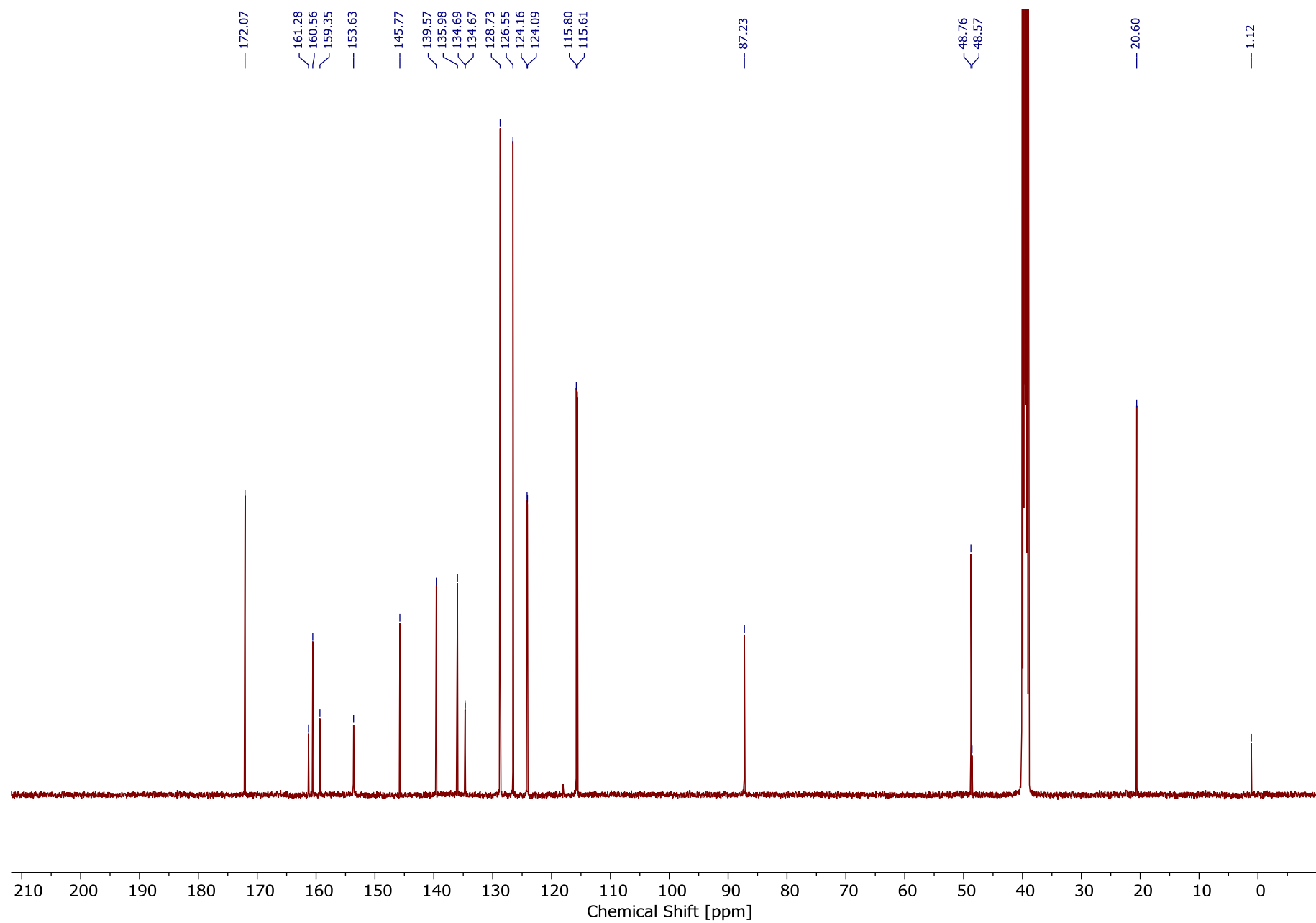


Compound 41:

¹H NMR



$^{13}\text{C}\{^1\text{H}\}$ NMR

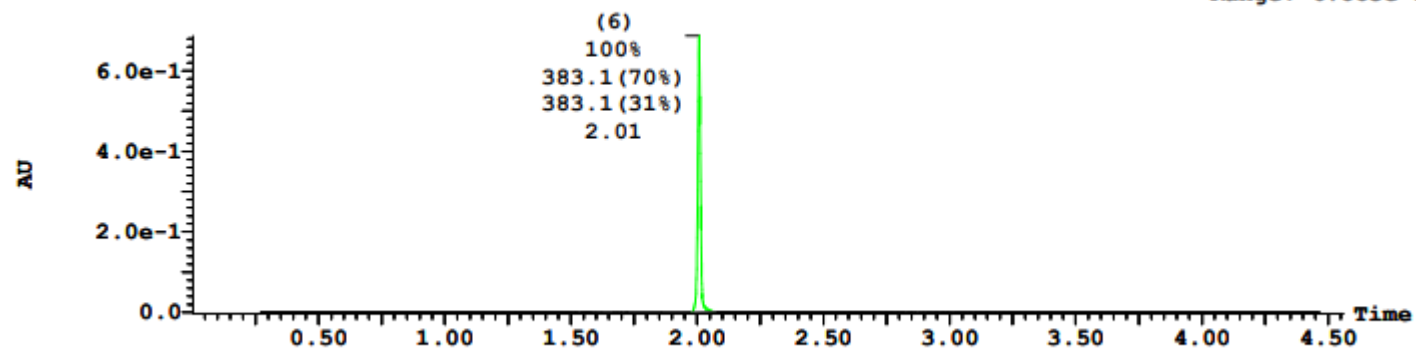


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

6.863e-1

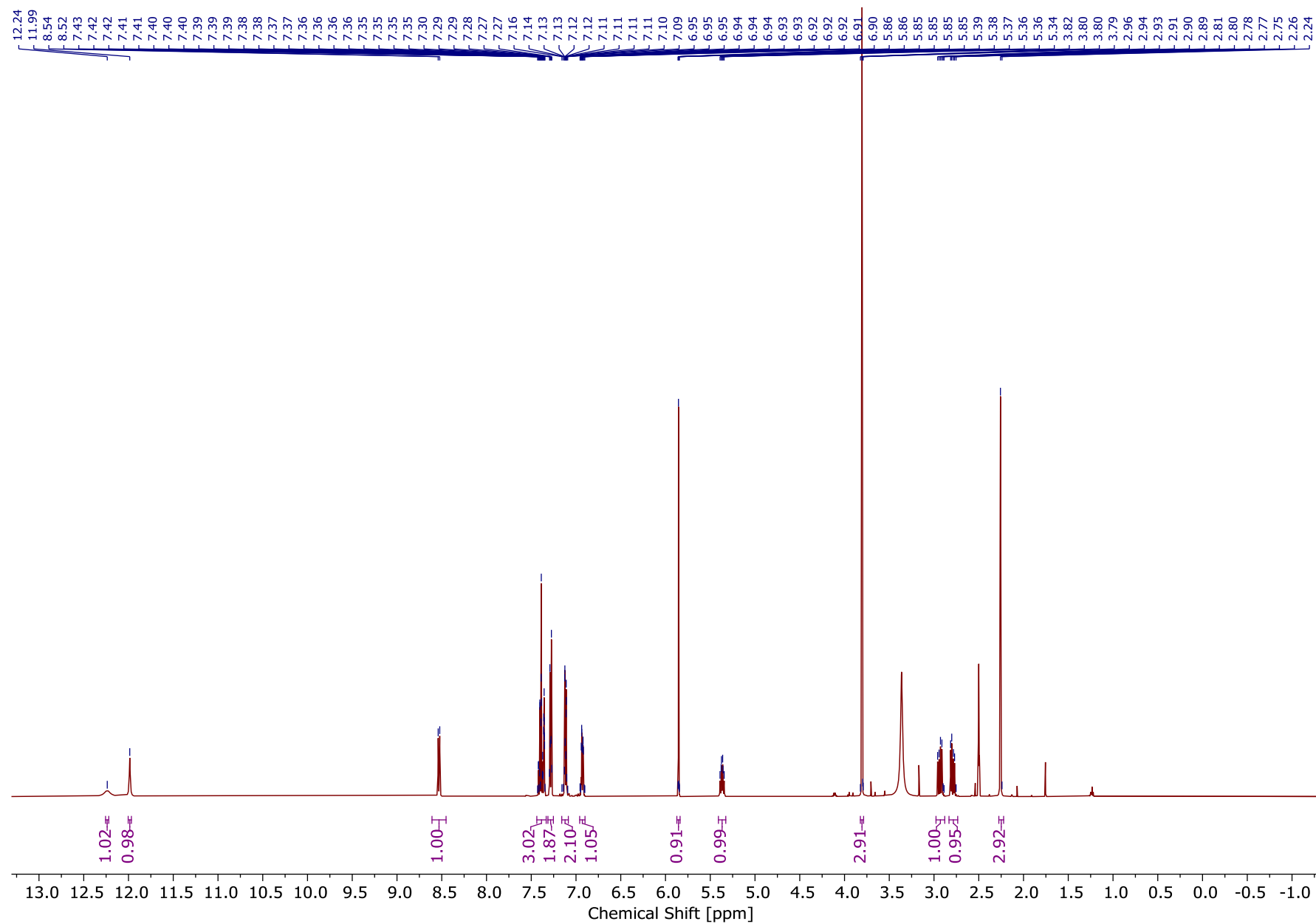
Range: 6.883e-1



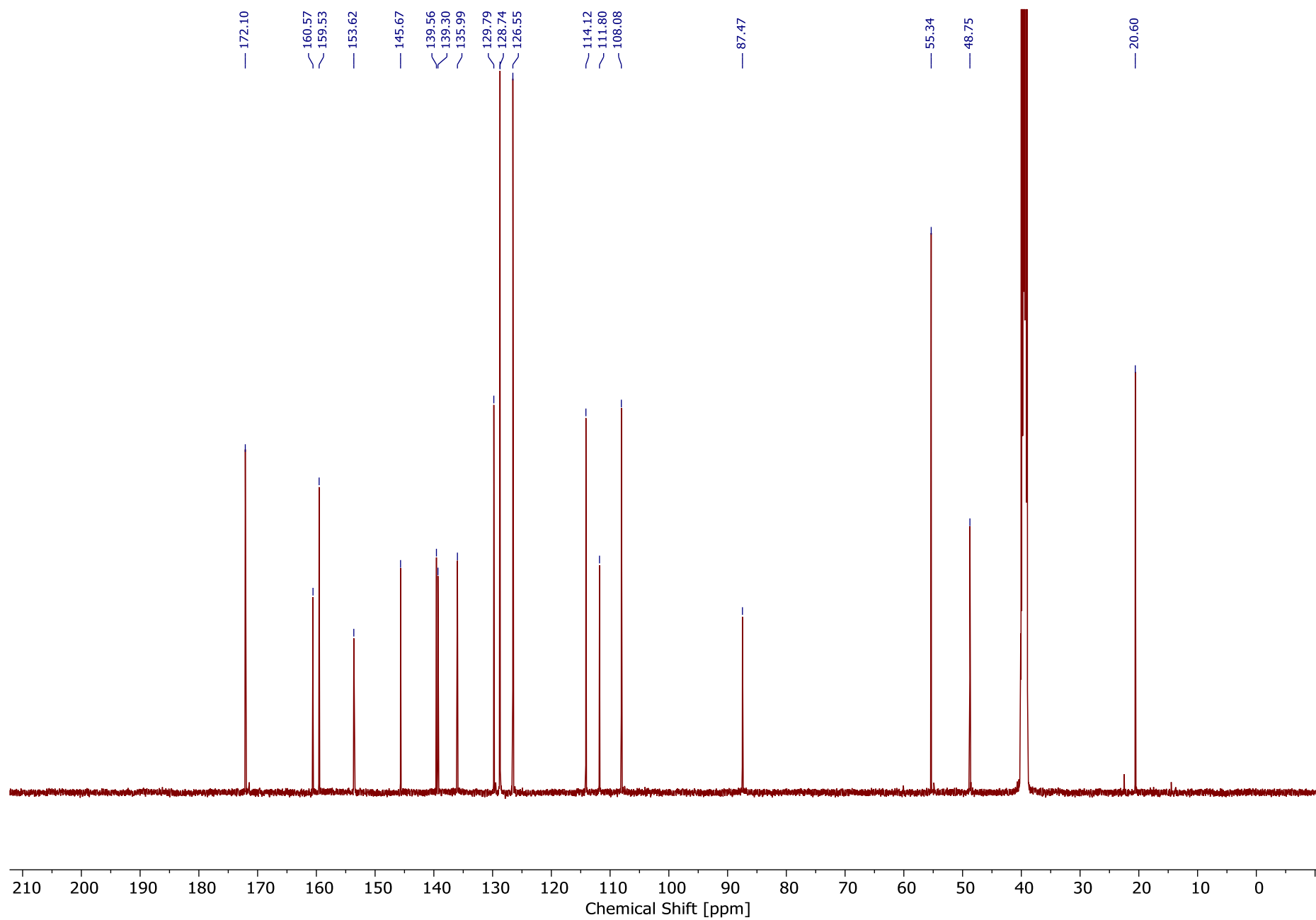
Peak Number	Compound	Time	Area	%Total	Mass Found
6	Found	2.01	100.00	100.00	383.13, 383.13

Compound 42:

^1H NMR



$^{13}\text{C}\{^1\text{H}\}$ NMR

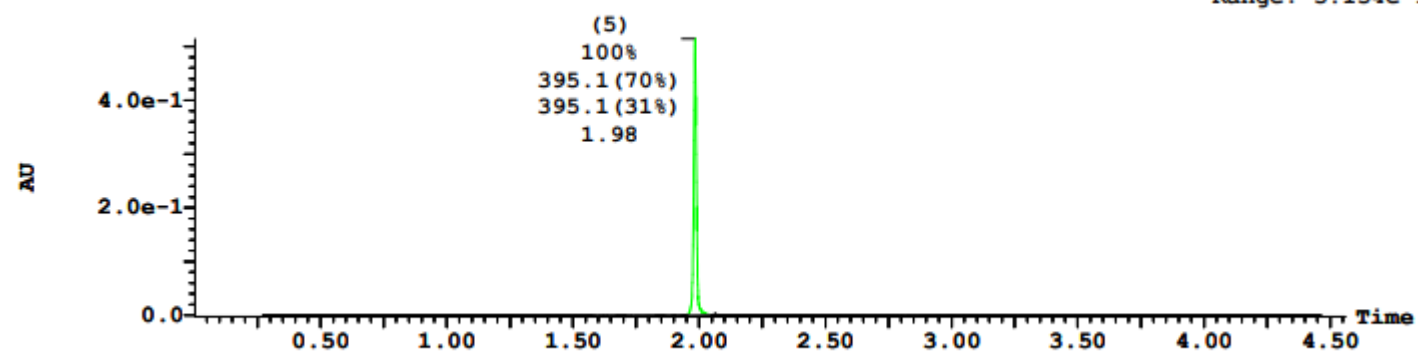


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

5.137e-1

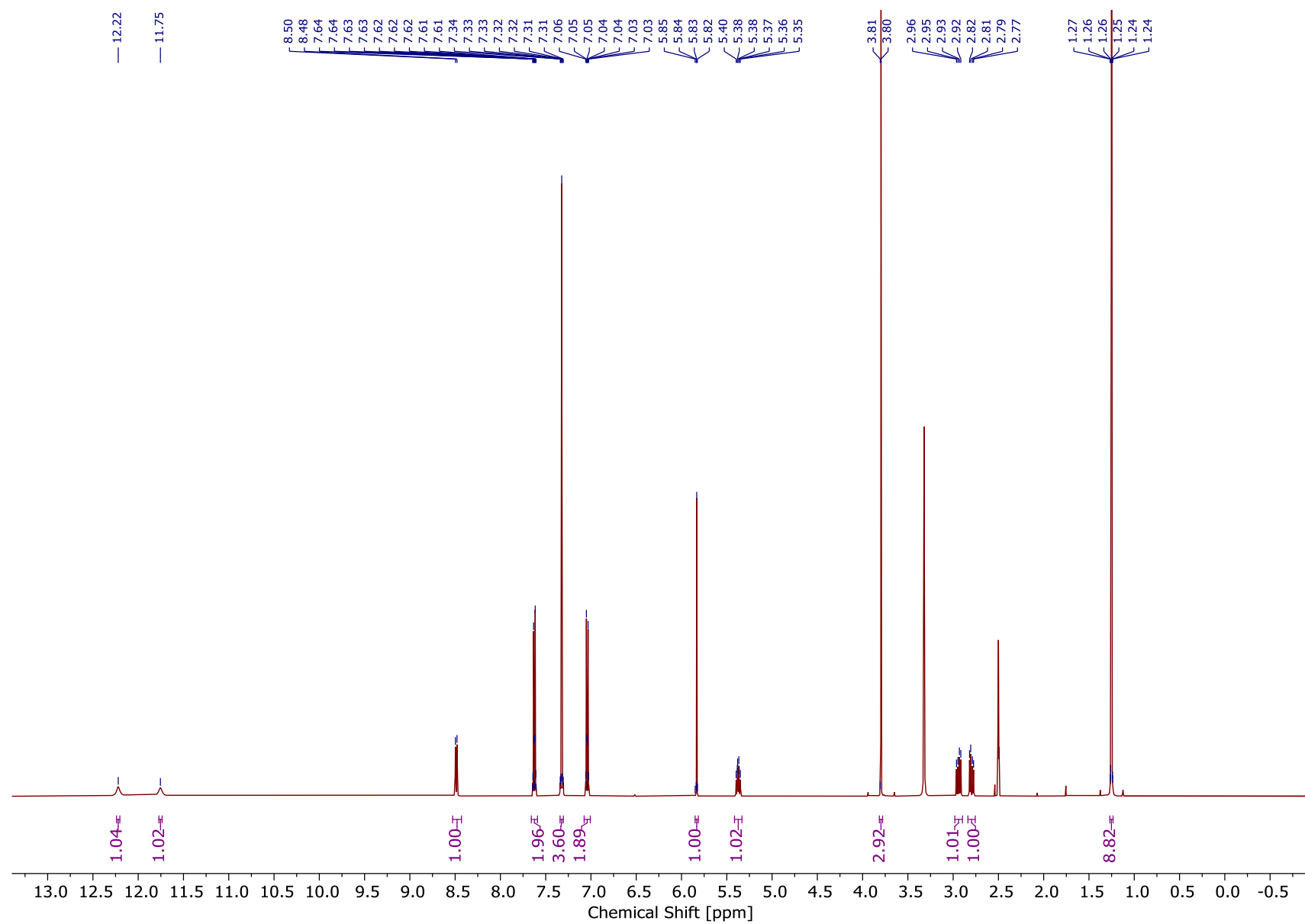
Range: 5.154e-1



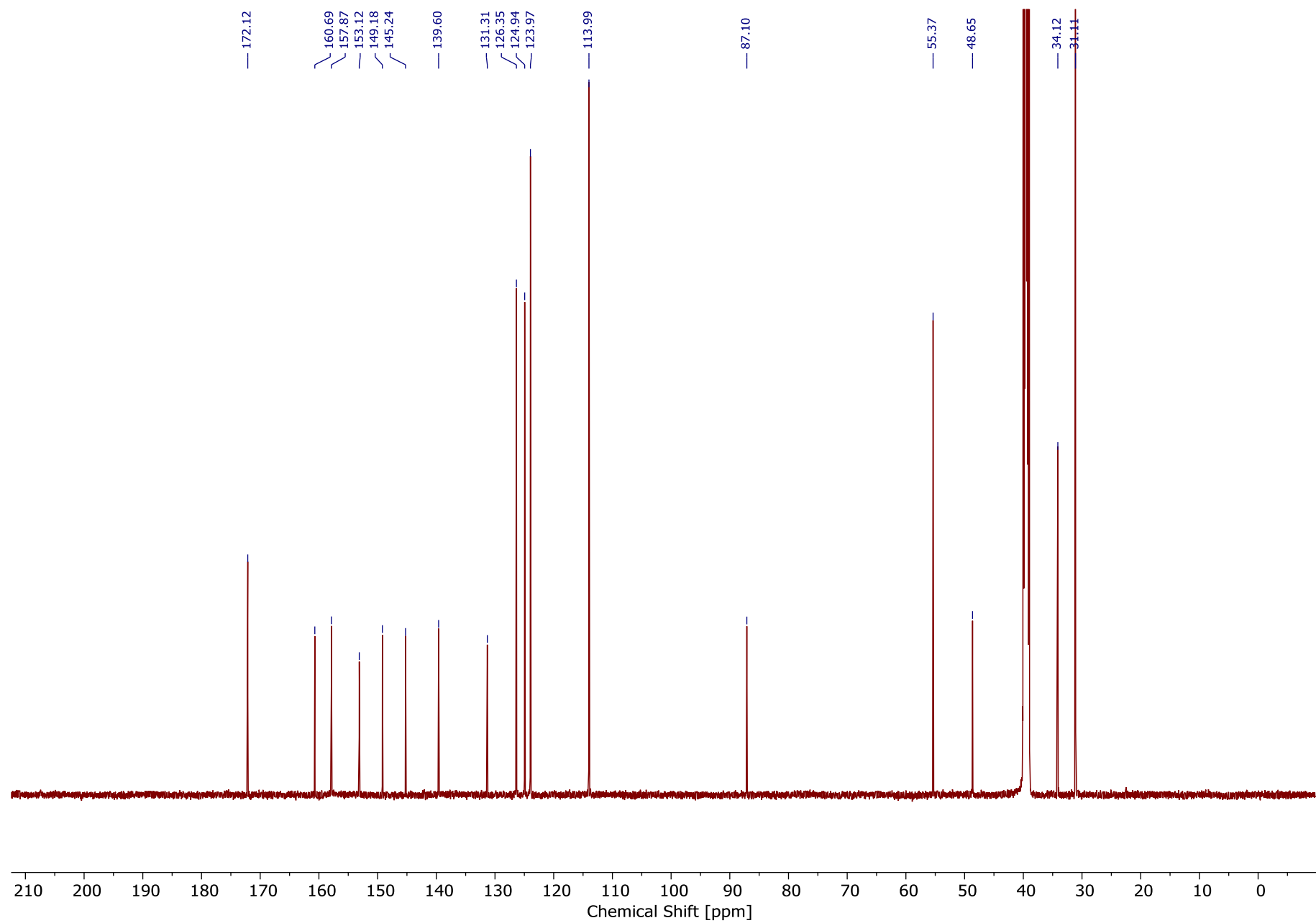
Peak Number	Compound	Time	Area %Total	Mass Found
5	Found	1.98	100.00	395.15, 395.15

Compound 43:

¹H-NMR:



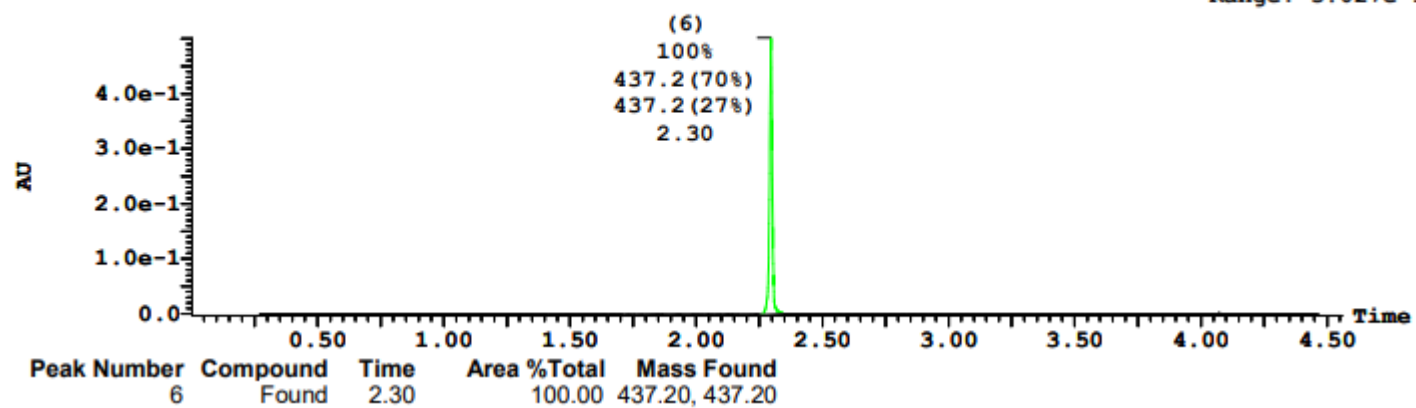
$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

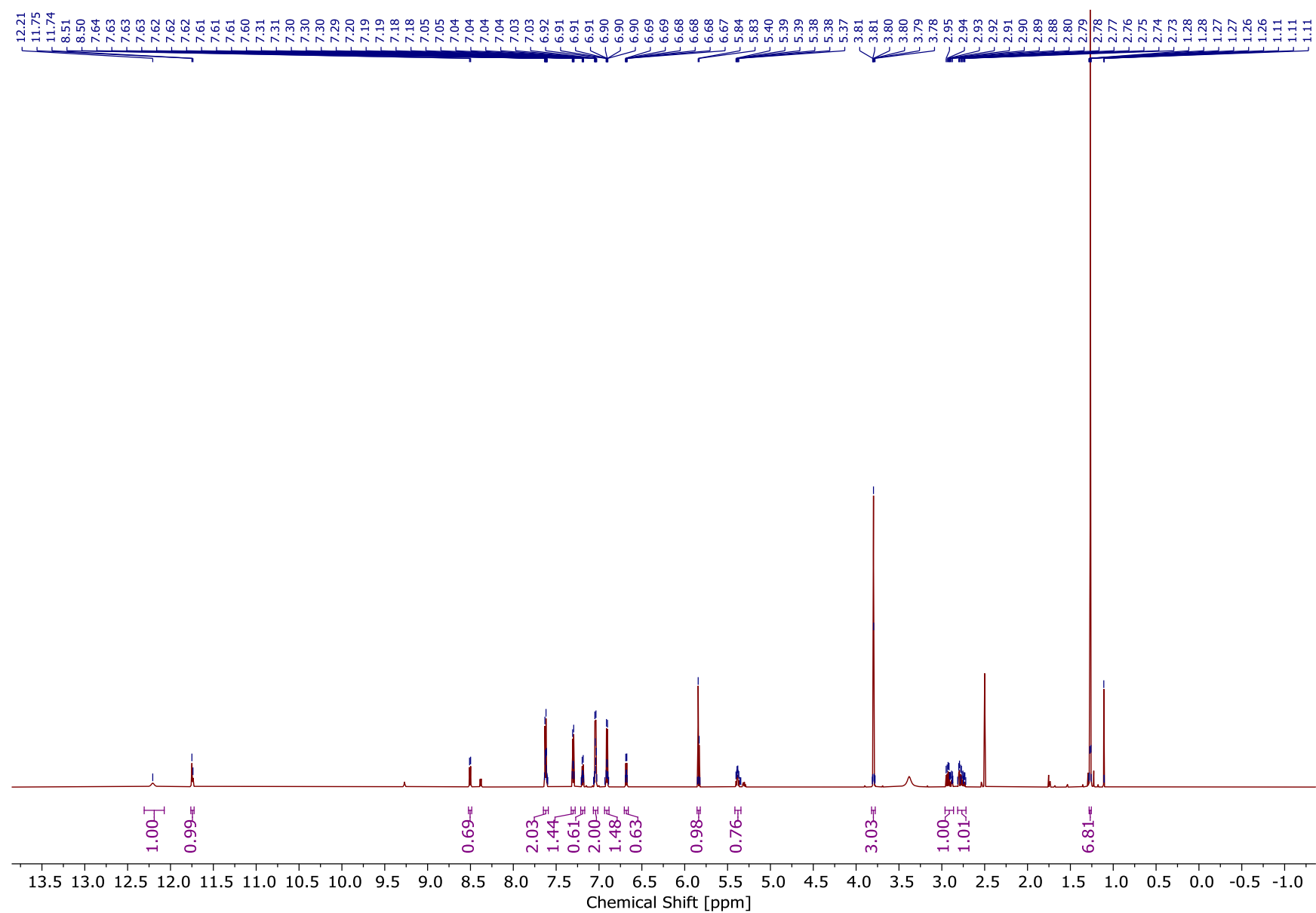
3: UV Detector: 254 Nm 0.7600-4.0600

5.007e-1
Range: 5.027e-1



Compound 44:

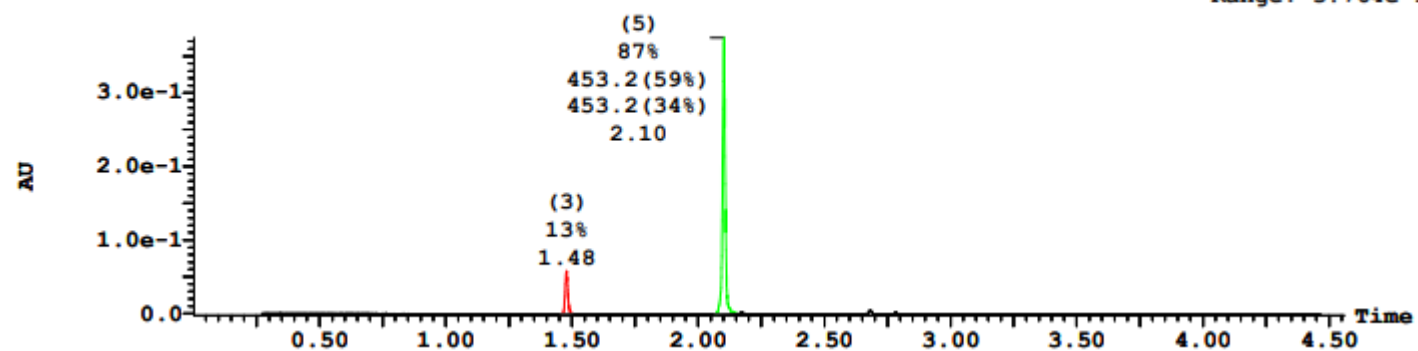
¹H NMR



LCMS-Chromatogram

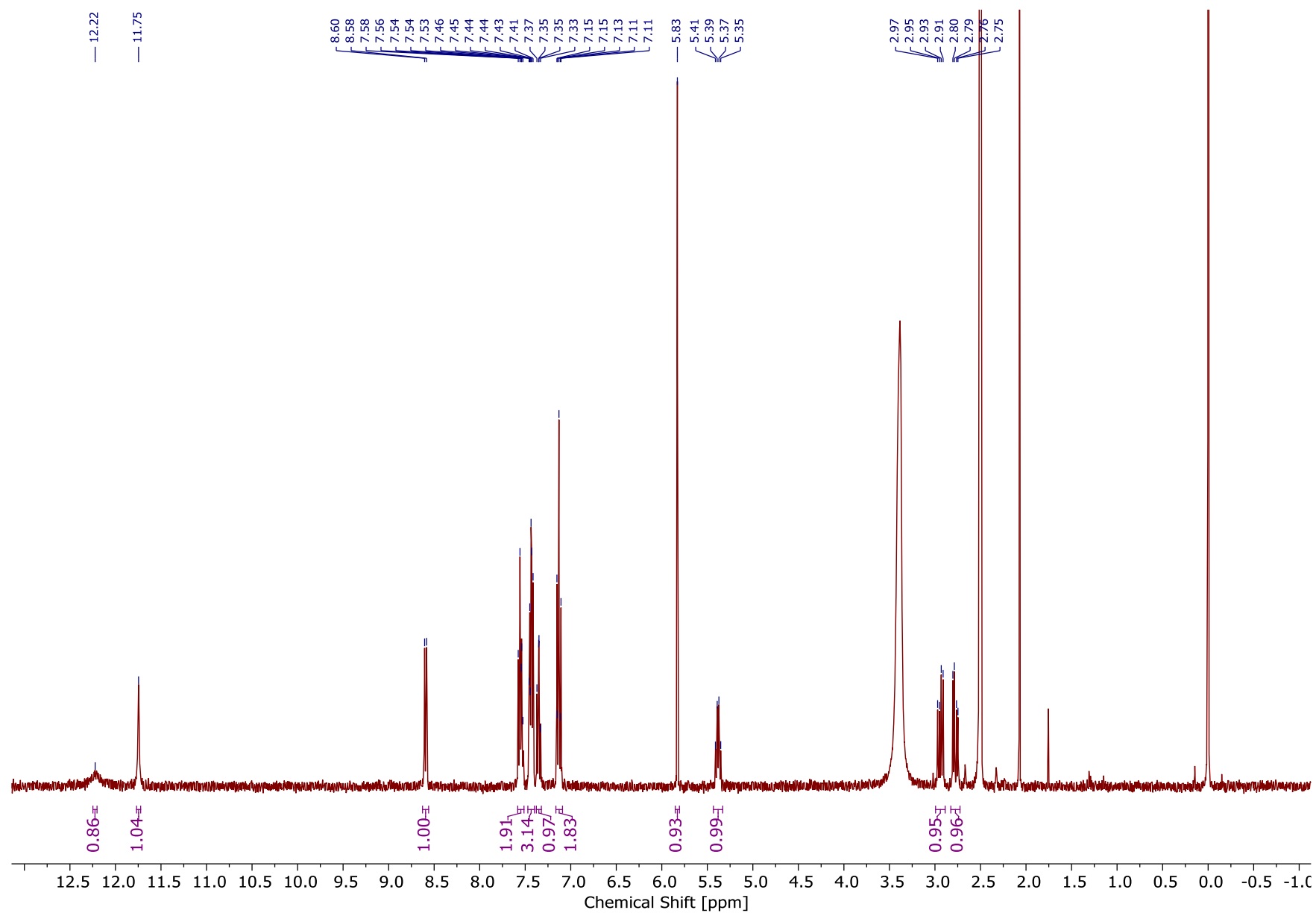
3: UV Detector: 254 Nm 0.7600-4.0600

3.744e-1
Range: 3.764e-1



Compound 45:

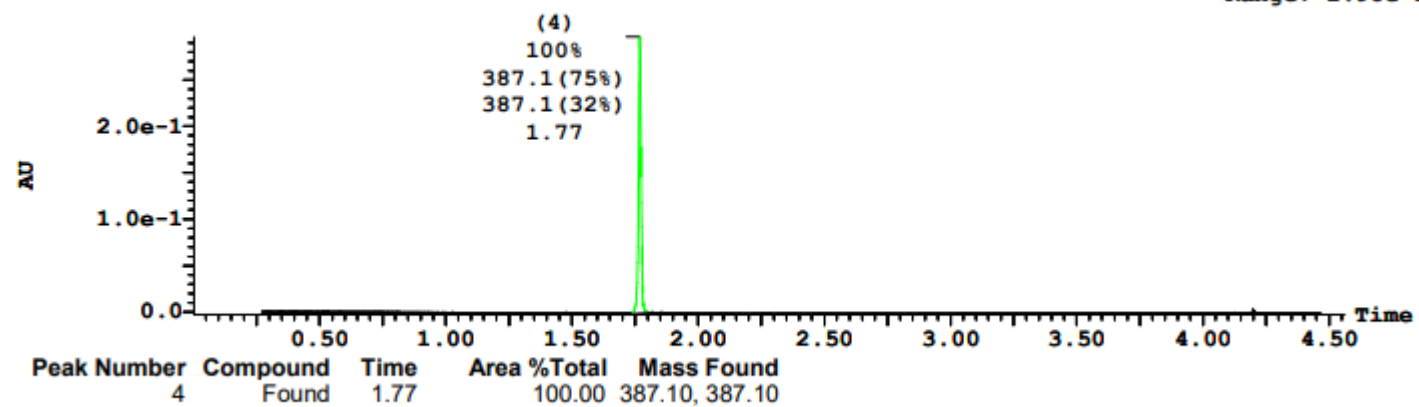
^1H NMR:



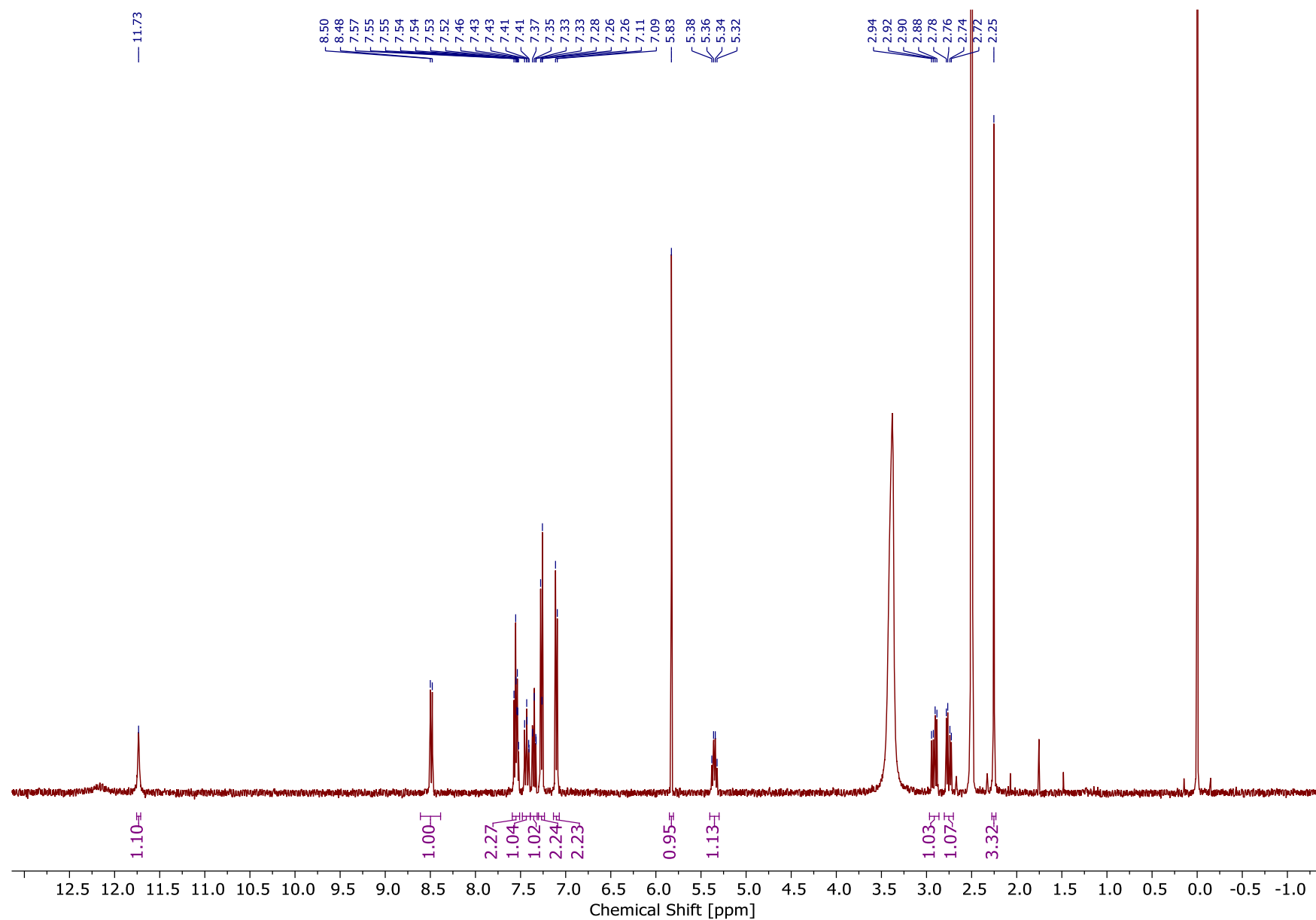
LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

2.96e-1
Range: 2.98e-1



Compound 46:

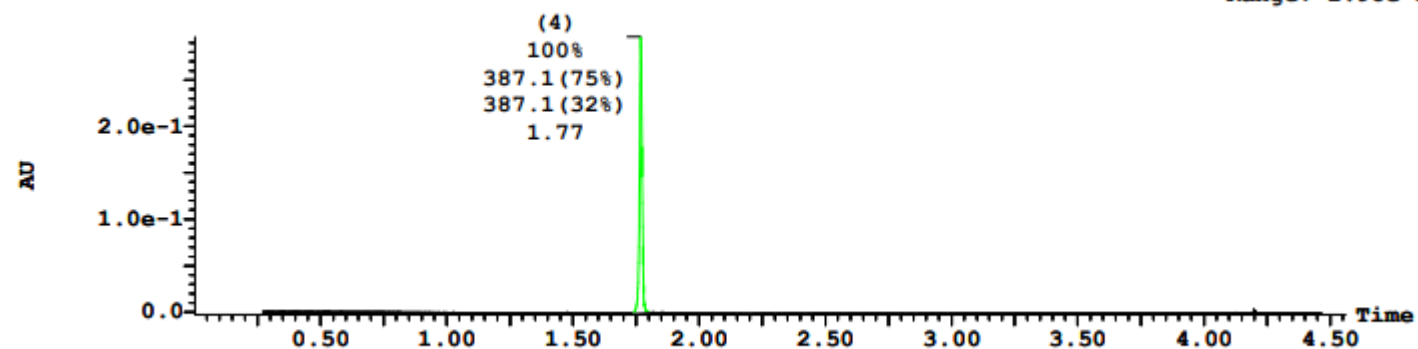


LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

2.96e-1

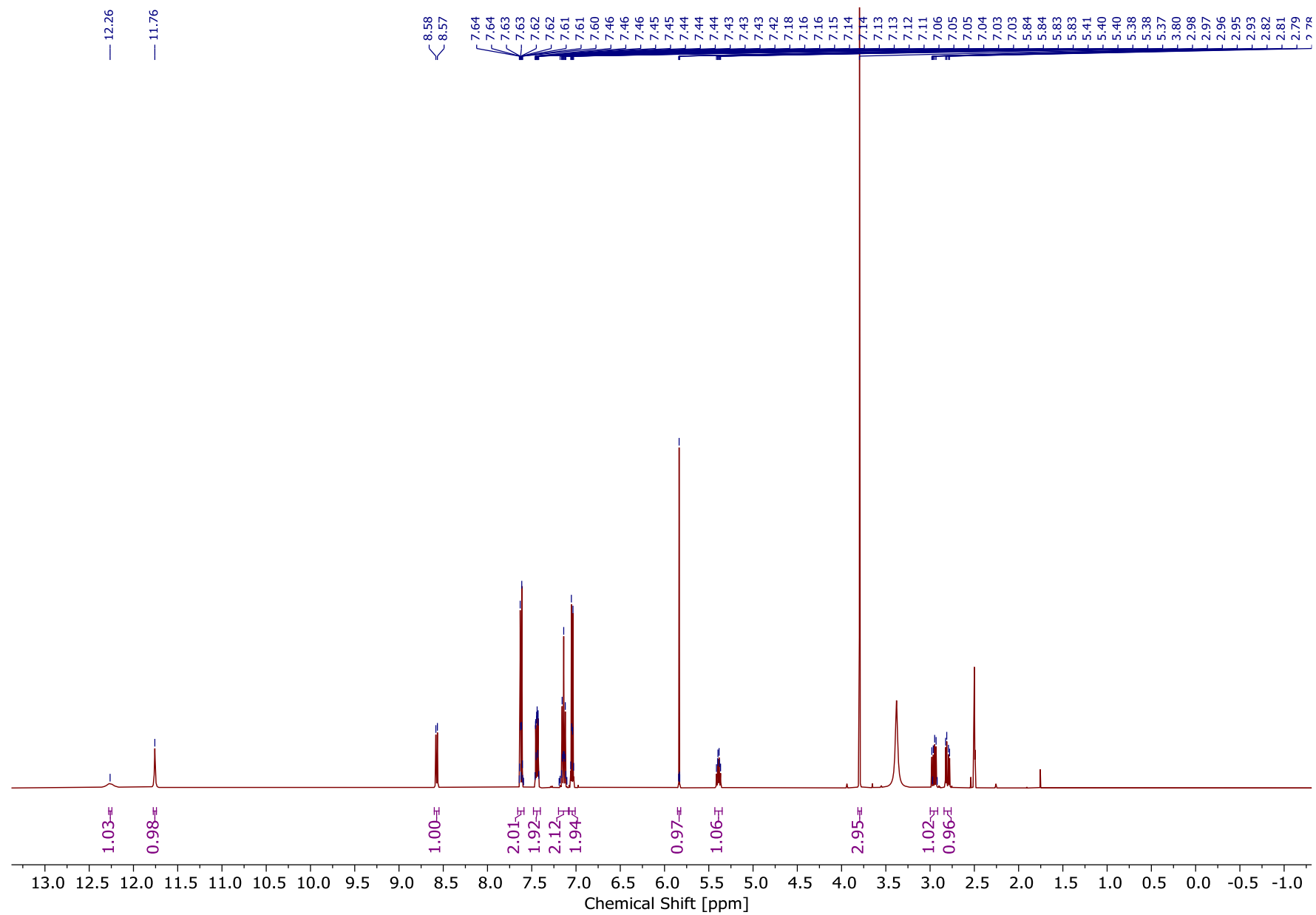
Range: 2.98e-1



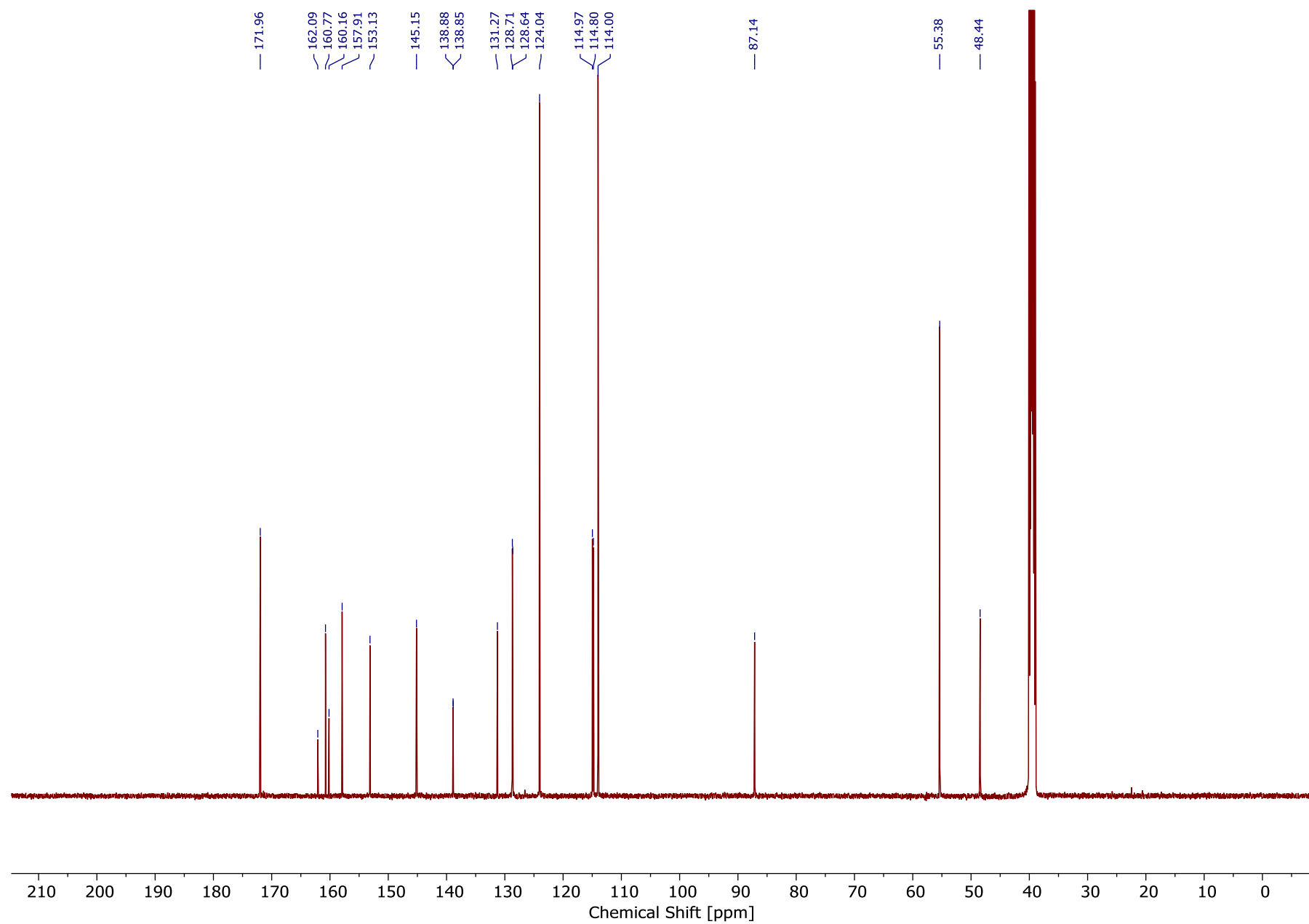
Peak Number	Compound	Time	Area %Total	Mass Found
4	Found	1.77	100.00	387.10, 387.10

Compound 47:

¹H-NMR:



$^{13}\text{C}\{^1\text{H}\}$ NMR:



LCMS-Chromatogram

3: UV Detector: 254 Nm 0.7600-4.0600

5.521e-1
Range: 5.54e-1

