

Supporting Information for

**Selectfluor<sup>TM</sup>-Catalyzed Oxidative Cyclization of  
Ynamides Enables Facile Synthesis of Oxazolidine-2,4-diones**

Guangke He,<sup>\*a</sup> Yuan Li,<sup>a</sup> Zilun Yu,<sup>a</sup> Zhaoqiang Chen,<sup>a</sup> Yongming Tang,<sup>a</sup> Guangliang Song,<sup>a</sup> and Teck-Peng Loh<sup>\*a,b</sup>

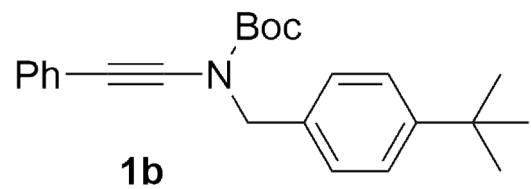
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<sup>b</sup> *Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore 637371.*

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### Spectra of compounds 1b~(H-TEDA-BF<sub>4</sub>)

Spectra of compound <b>1b</b>	p 3-4	Spectra of compound <b>2n</b>	p 36-37
Spectra of compound <b>1c</b>	p 5-6	Spectra of compound <b>2o</b>	p 38-39
Spectra of compound <b>1d</b>	p 7-8	Spectra of compound <b>2p</b>	p 40-42
Spectra of compound <b>2a</b>	p 9-10	Spectra of compound <b>2q</b>	p 43-44
Spectra of compound <b>2b</b>	p 11-12	Spectra of compound <b>2r</b>	p 45-46
Spectra of compound <b>2c</b>	p 13-14	Spectra of compound <b>2s</b>	p 47-48
Spectra of compound <b>2d</b>	p 15-16	Spectra of compound <b>2t</b>	p 49-50
Spectra of compound <b>2e</b>	p 17-18	Spectra of compound <b>2u</b>	p 51-53
Spectra of compound <b>2f</b>	p 19-20	Spectra of compound <b>2v</b>	p 54-55
Spectra of compound <b>2g</b>	p 21-22	Spectra of compound <b>2w</b>	p 56-57
Spectra of compound <b>2h</b>	p 23-24	Spectra of compound <b>7x</b>	p 58-59
Spectra of compound <b>2i</b>	p 25-26	Spectra of compound <b>7y</b>	p 60-61
Spectra of compound <b>2j</b>	p 27-28	Spectra of compound <b>7z</b>	p 62-63
Spectra of compound <b>2k</b>	p 29-30	Spectra of compound <b>4a</b>	p 64-65
Spectra of compound <b>2l</b>	p 31-33	Spectra of compound <b>4b</b>	p 66-67
Spectra of compound <b>2m</b>	p 34-35	Spectra of compound <b>H-TEDA-BF<sub>4</sub></b>	p 68-70

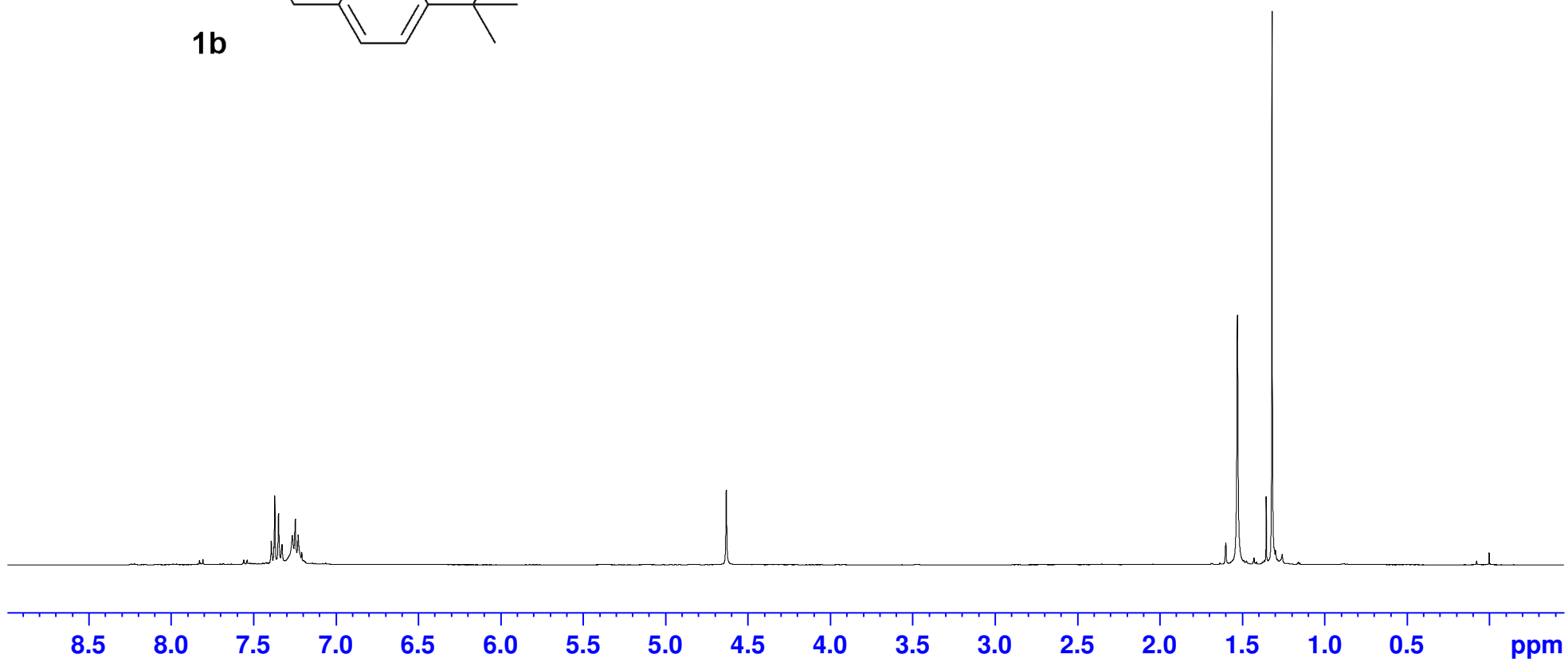


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4.6300

1.5278  
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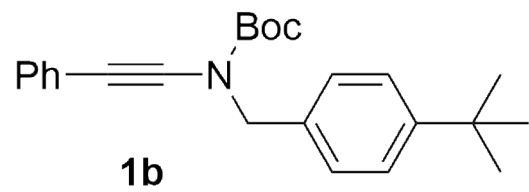
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2.00

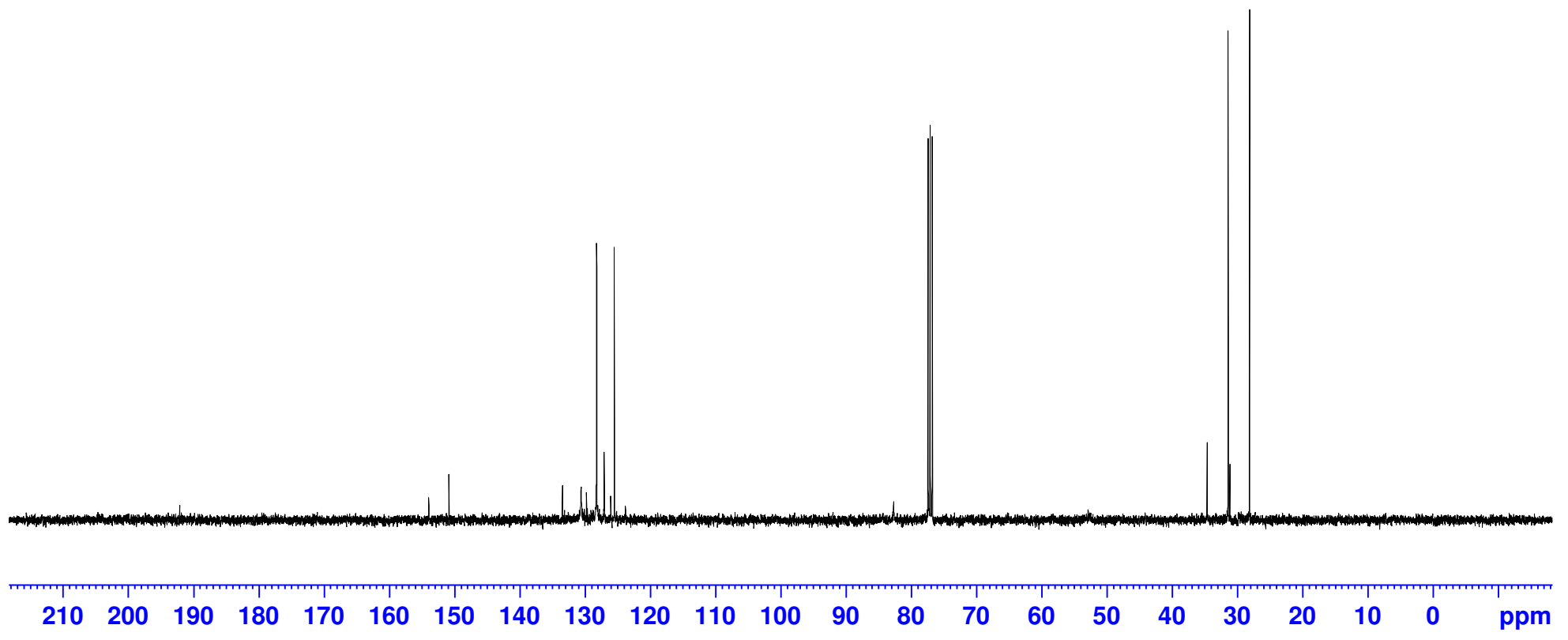
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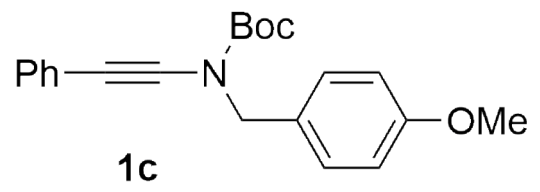


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150.85  
133.41  
130.55  
129.73  
128.17  
127.03  
126.02  
125.47  
123.77

77.38  
77.06  
76.74

34.58  
31.37  
31.10  
28.10





7.3482  
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7.2330  
6.8935  
6.8718

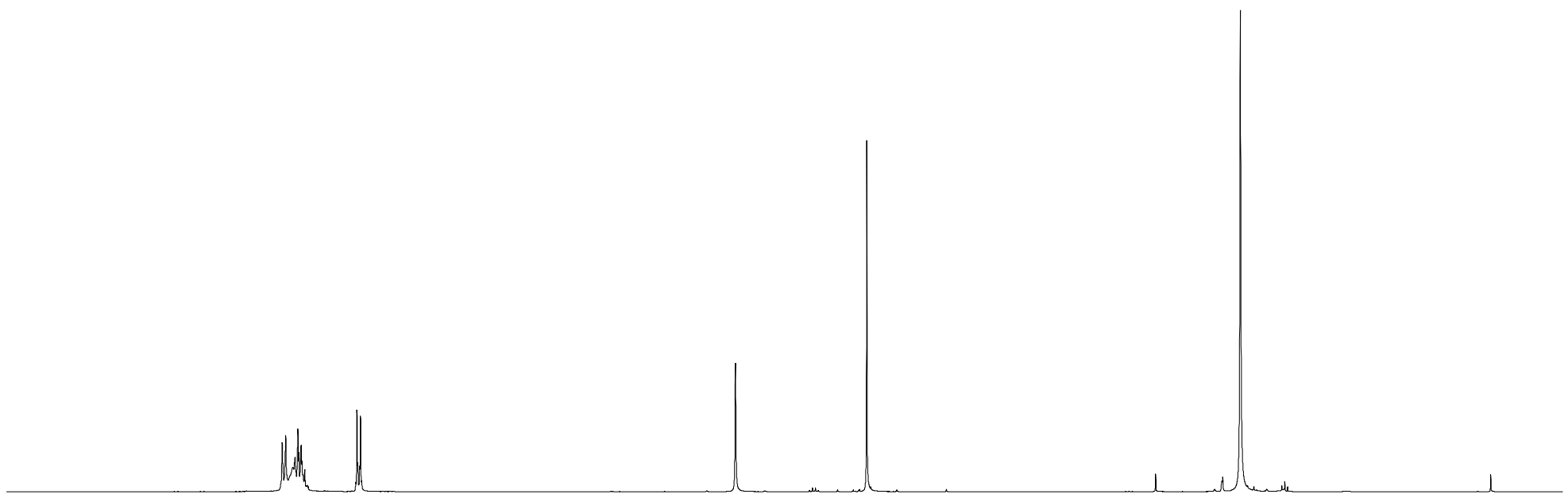
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3.7937

2.0376

1.5223

0.0000



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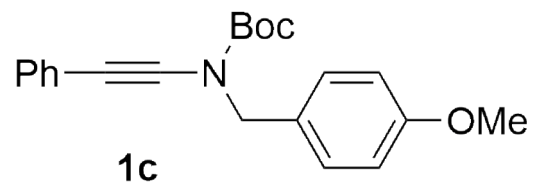
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3.00

9.02

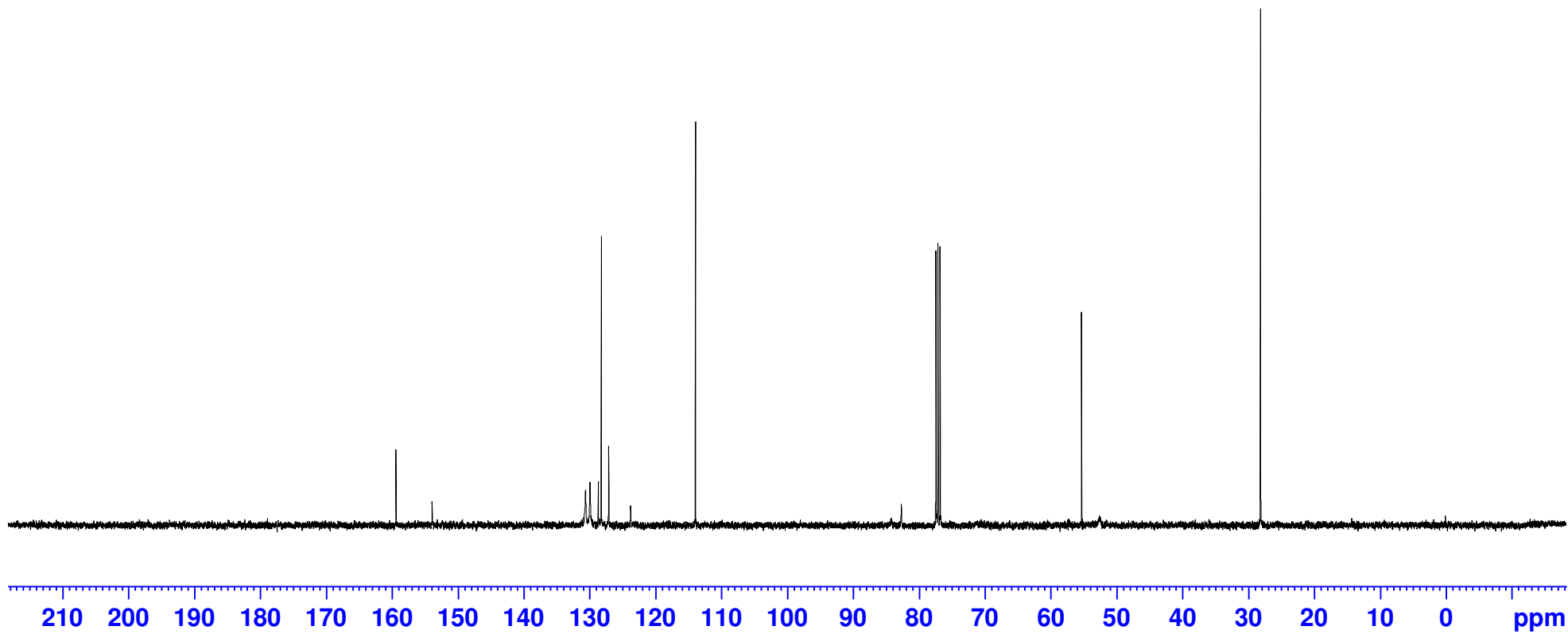


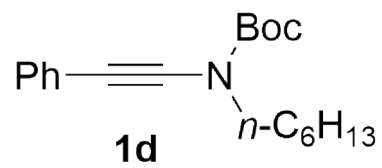
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— 153.90  
— 130.59  
— 129.90  
— 128.64  
— 127.07  
— 123.75  
— 113.90

— 82.63  
— 77.39  
— 77.07  
— 76.75

— 55.29

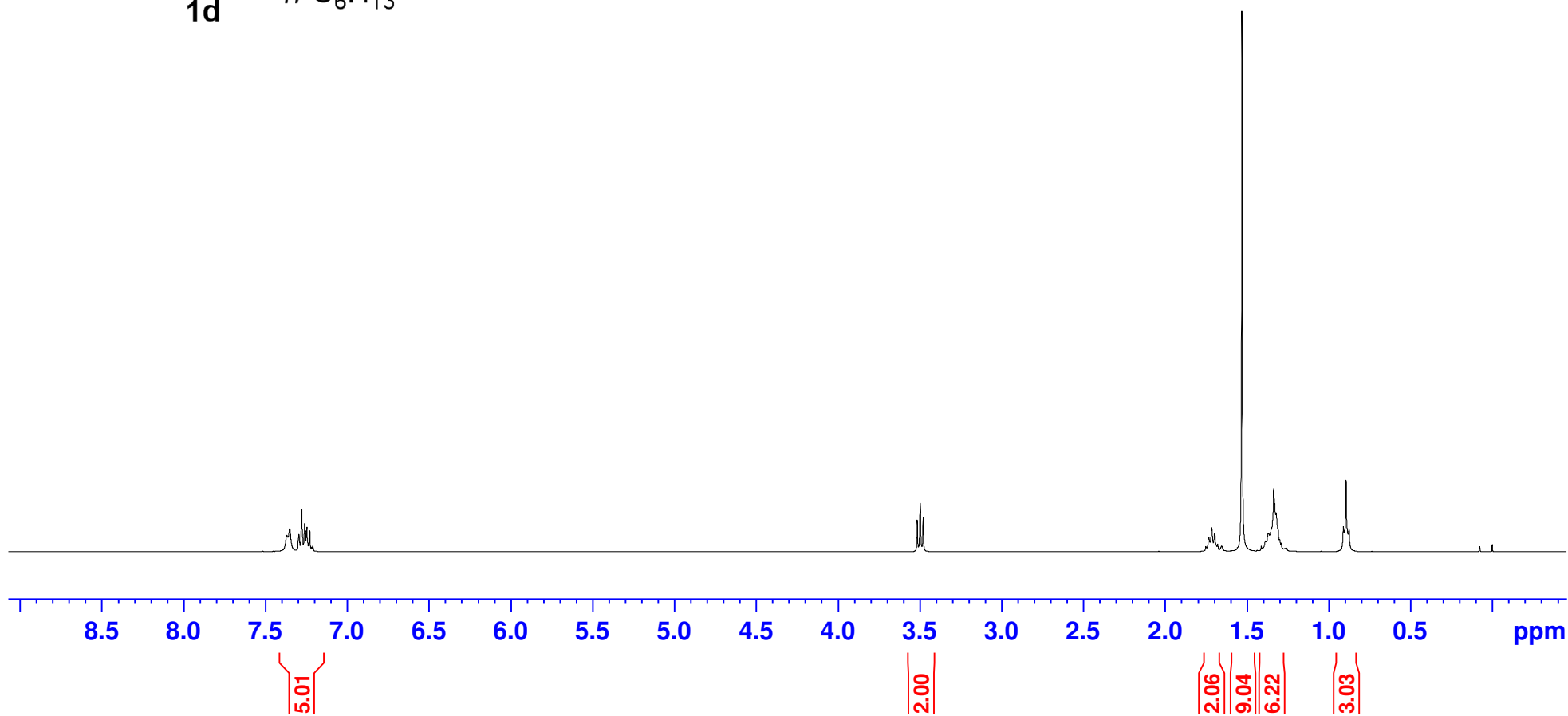
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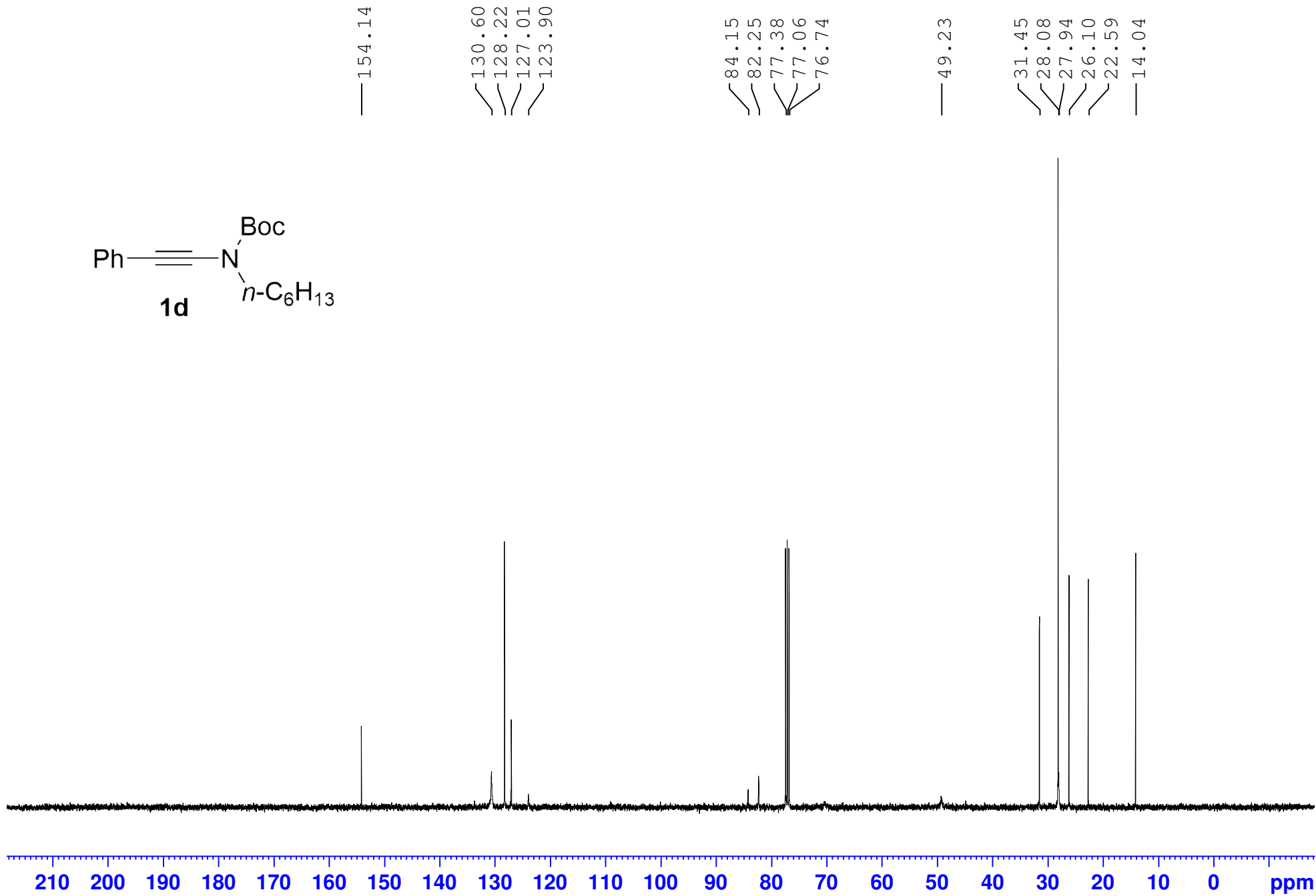
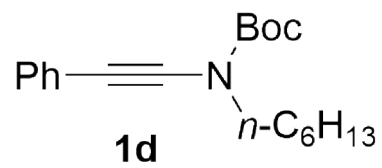




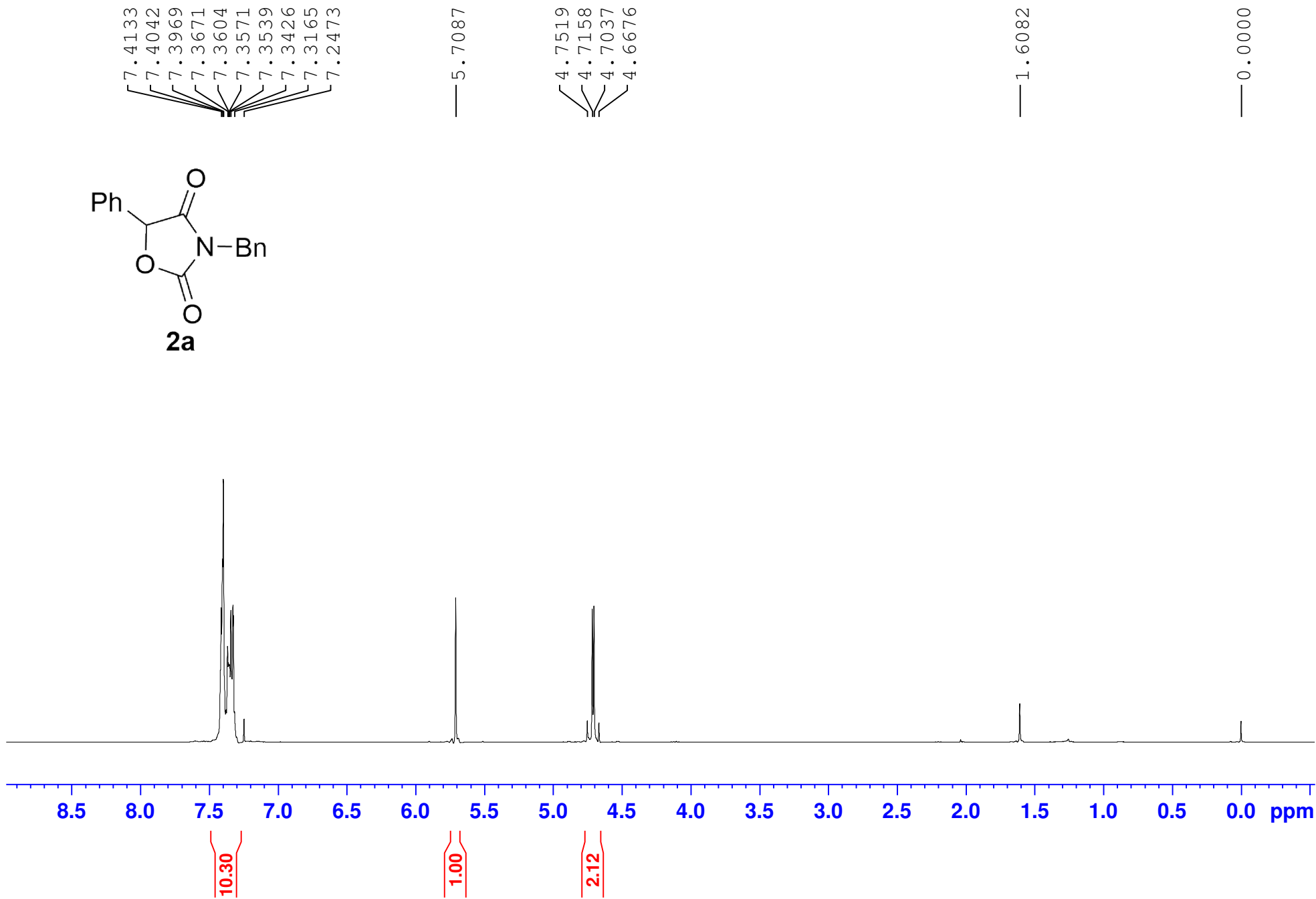
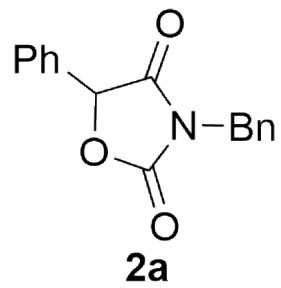
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7.2431  
7.2361  
7.2291

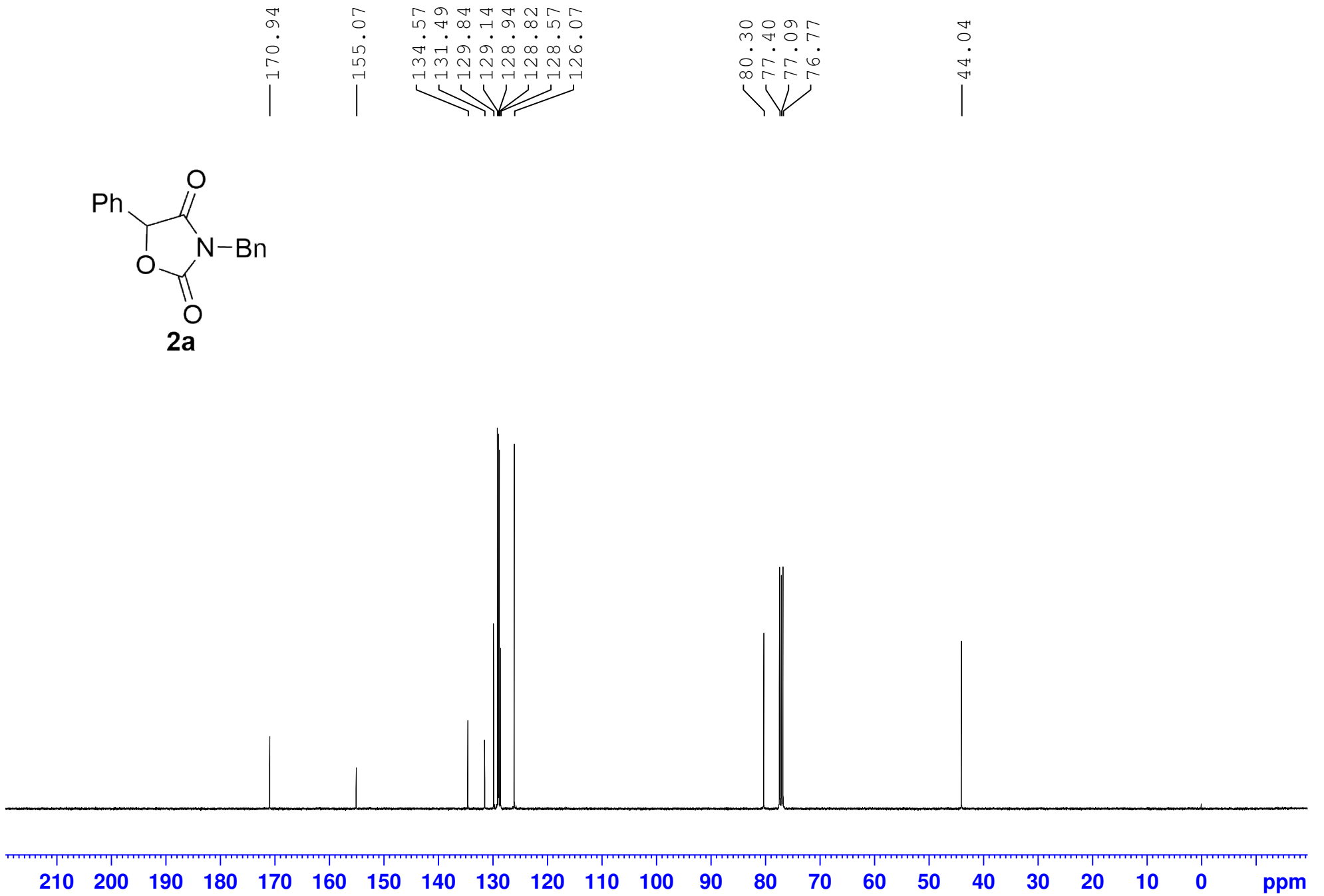
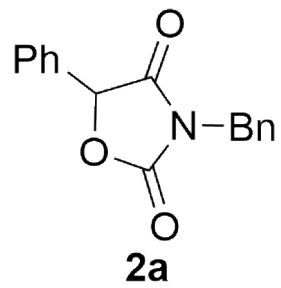
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1.5301  
1.3871  
1.3691  
1.3661  
1.3492  
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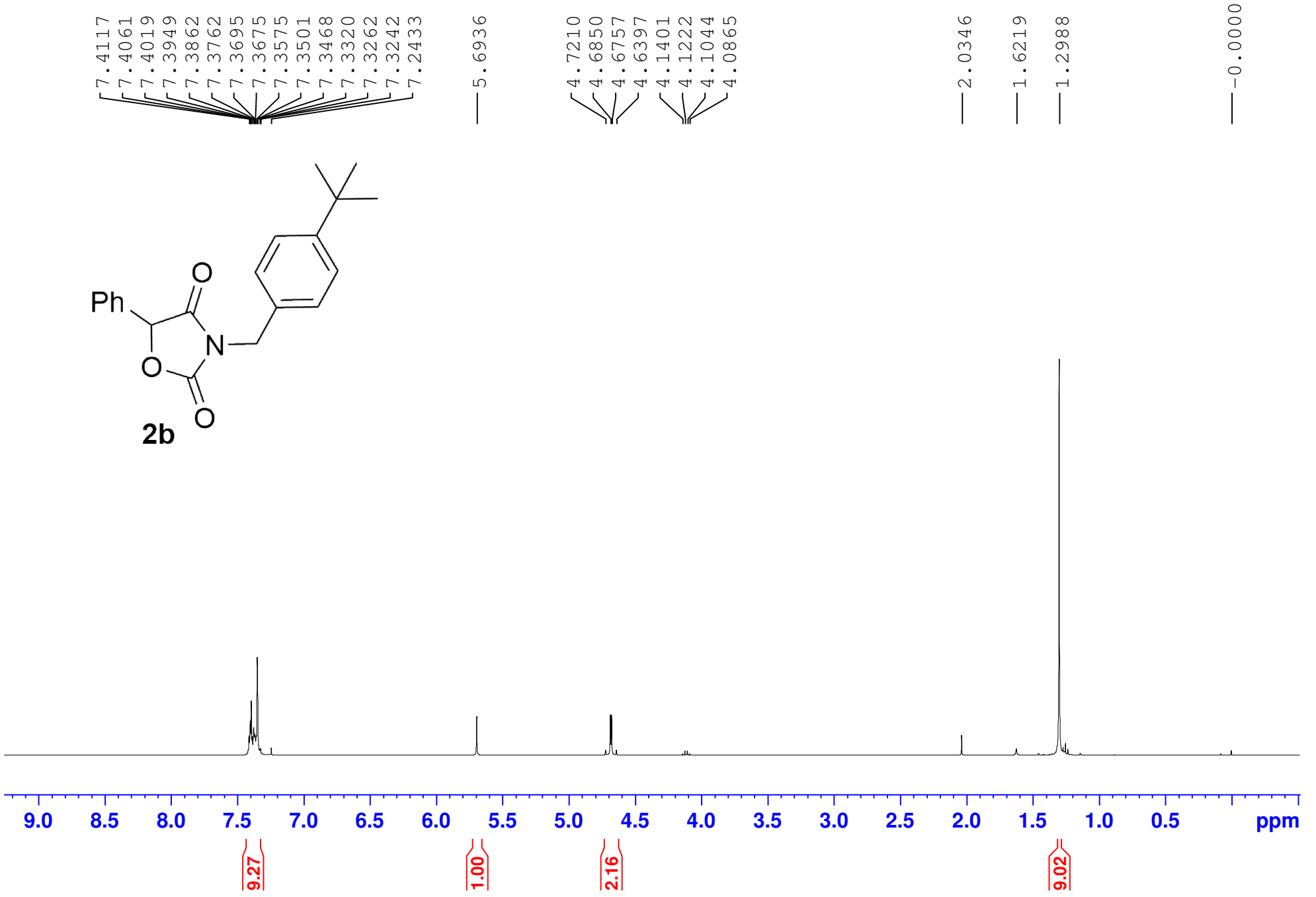
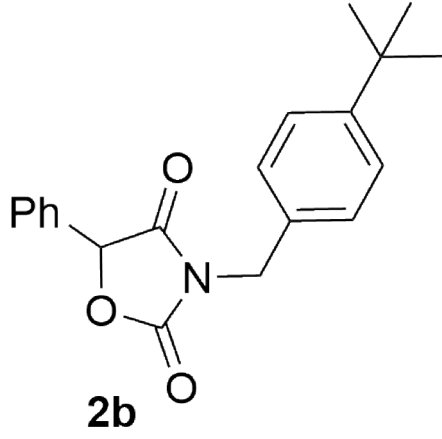


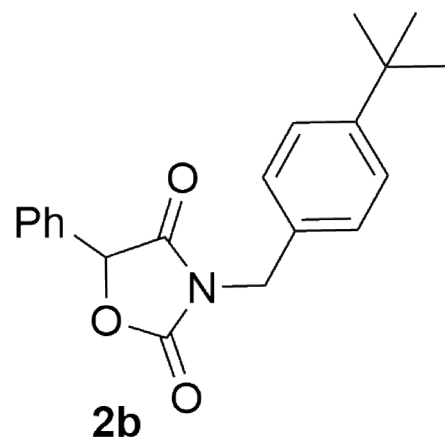












— 170.96

— 155.12

— 151.58

— 131.59

— 131.56

— 129.79

— 129.11

— 128.58

— 126.07

— 125.84

— 80.24

— 77.40

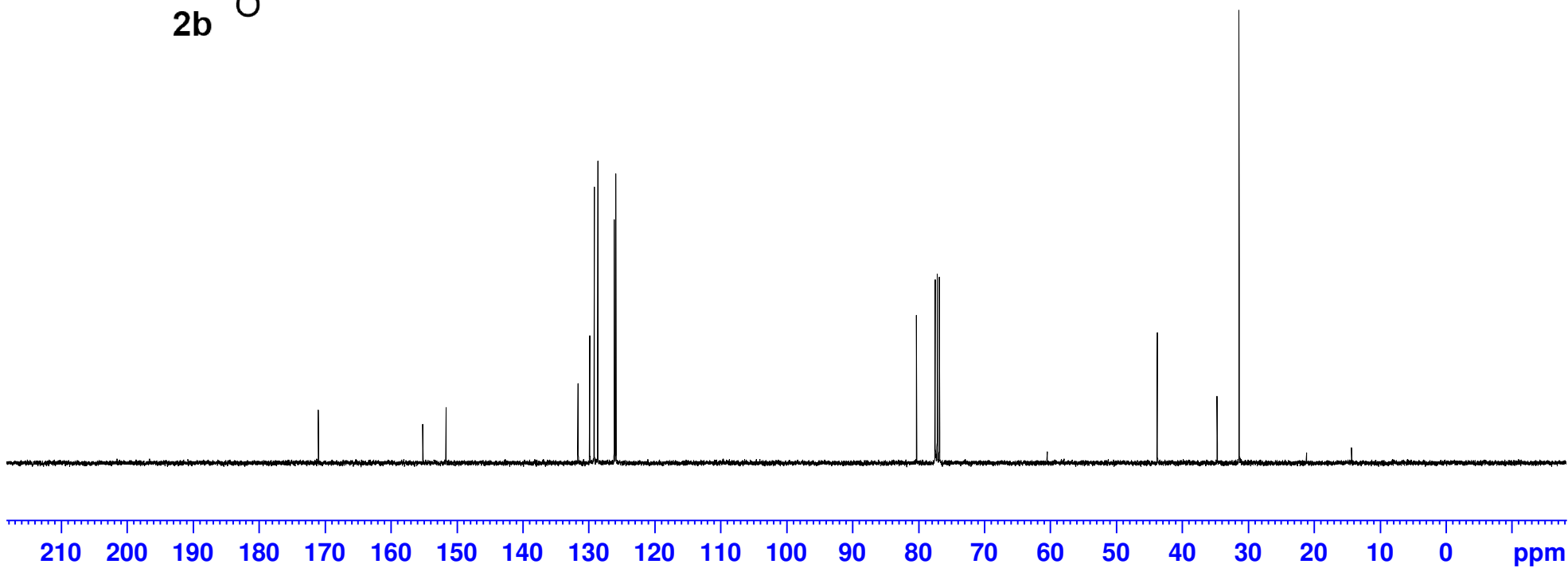
— 77.08

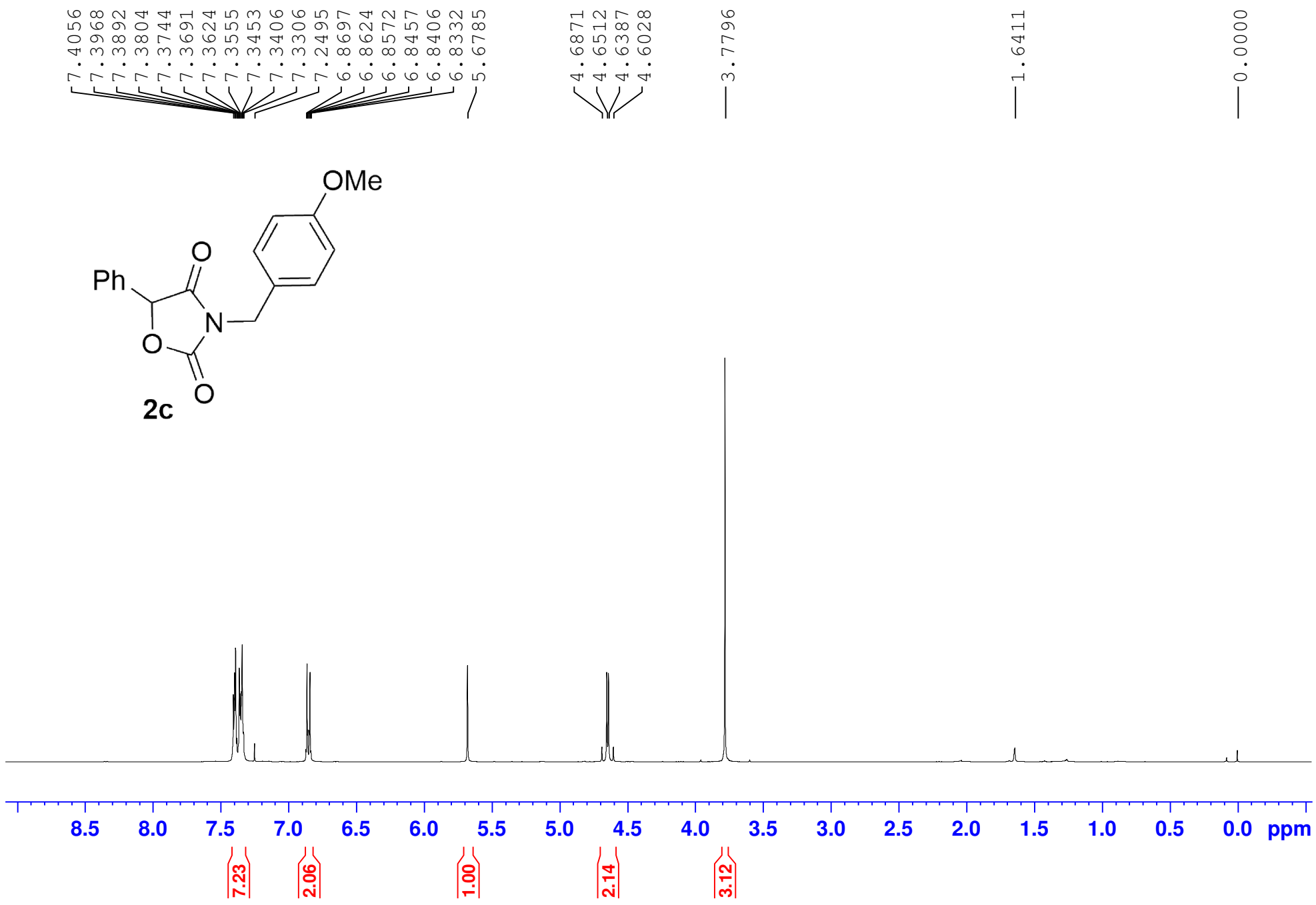
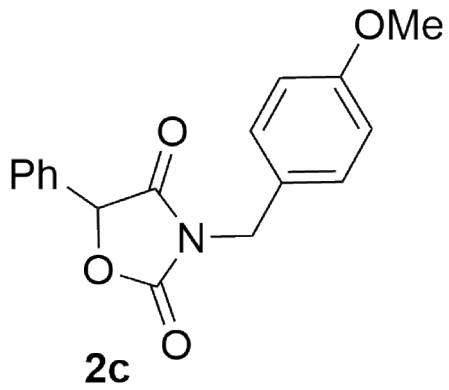
— 76.76

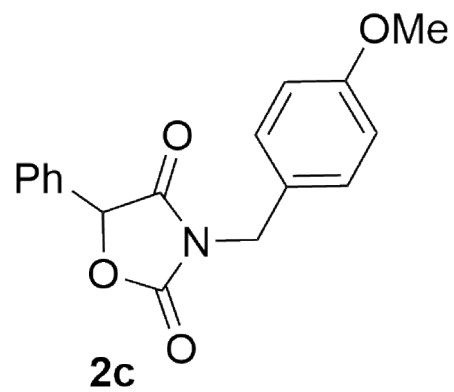
— 43.71

— 34.63

— 31.30

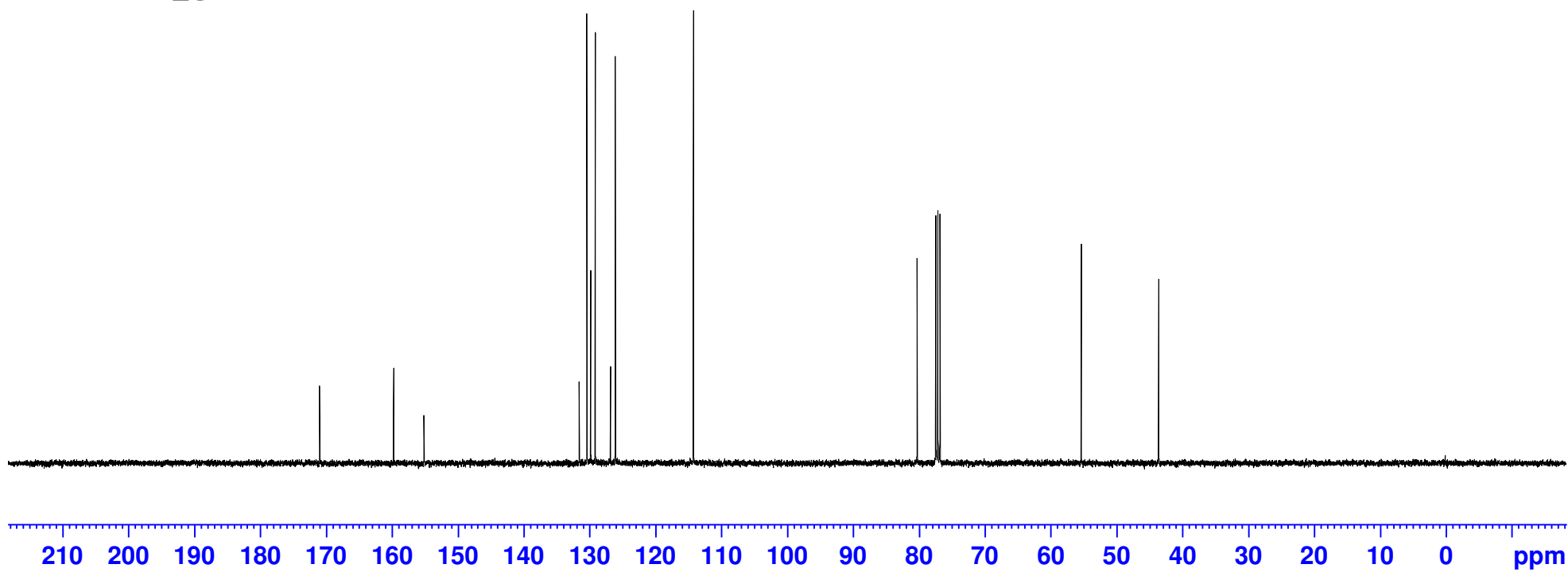


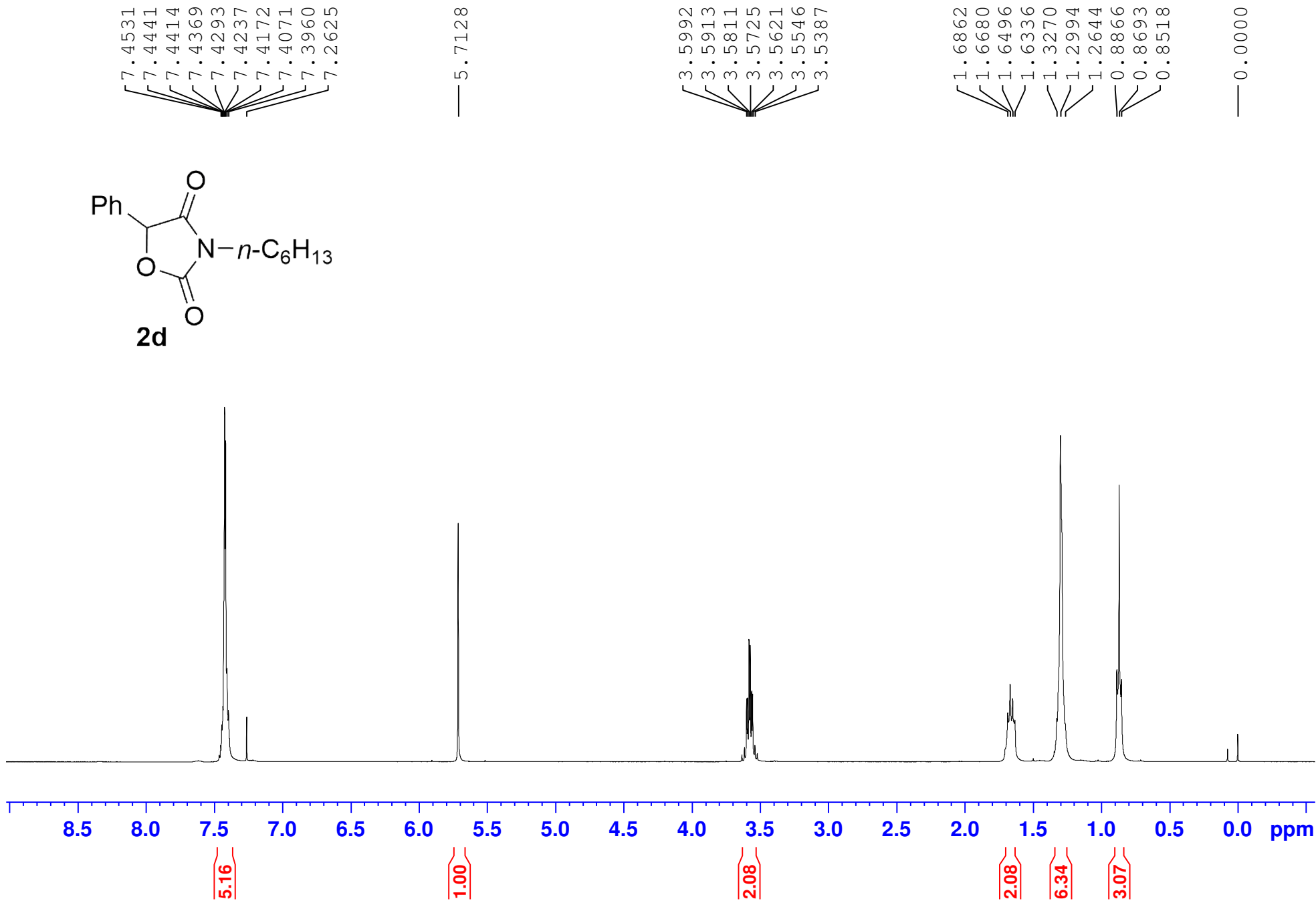
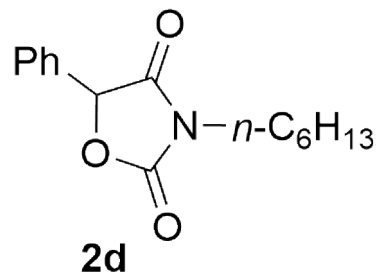


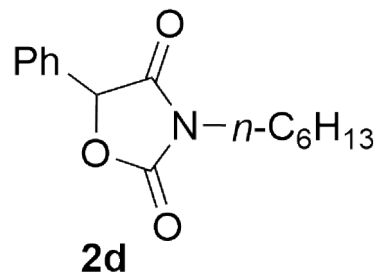


— 170.96  
— 159.74  
— 155.12  
131.54  
130.39  
129.80  
129.12  
126.80  
126.07  
— 114.22

80.24  
77.41  
77.09  
76.77  
— 55.30  
— 43.55







— 171.29

— 155.37

131.68  
129.78  
129.12  
125.97

80.06  
77.38  
77.07  
76.75

— 40.49

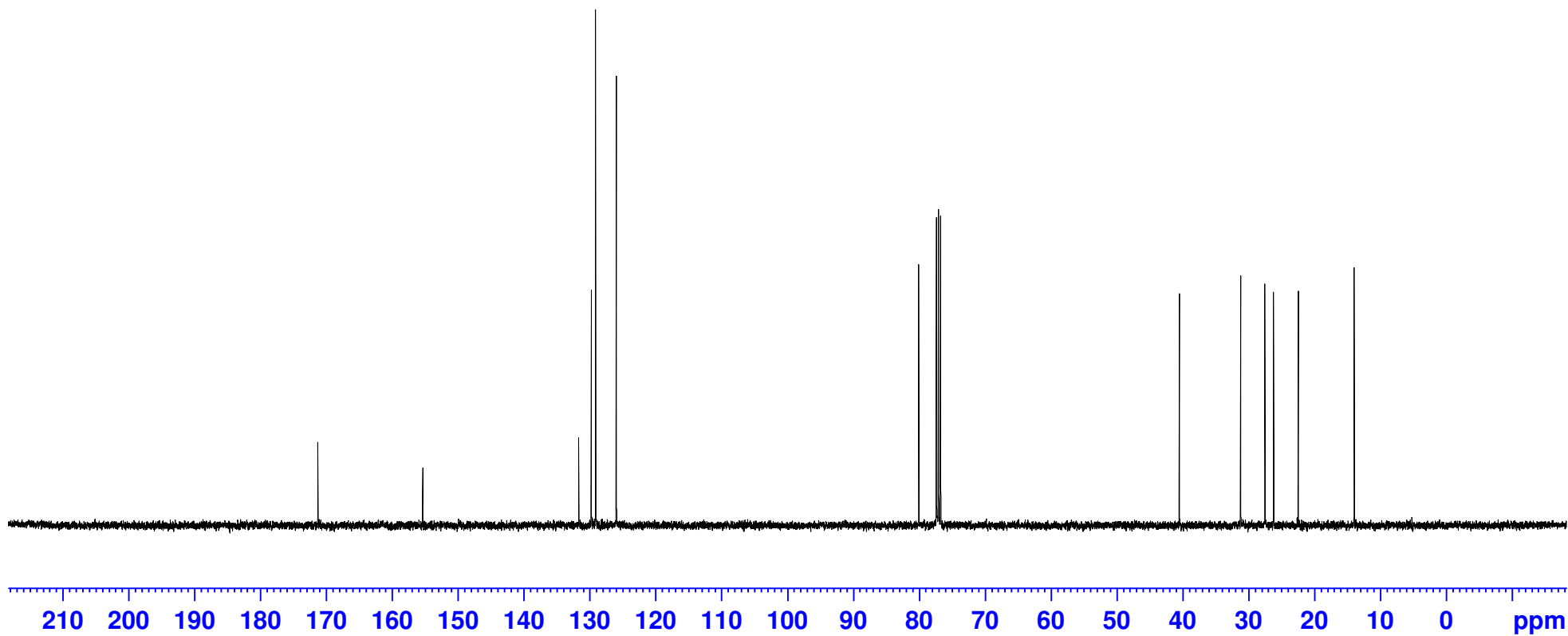
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27.50

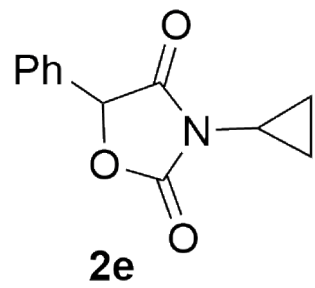
26.18

22.44

— 13.94







7.4391  
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7.2646

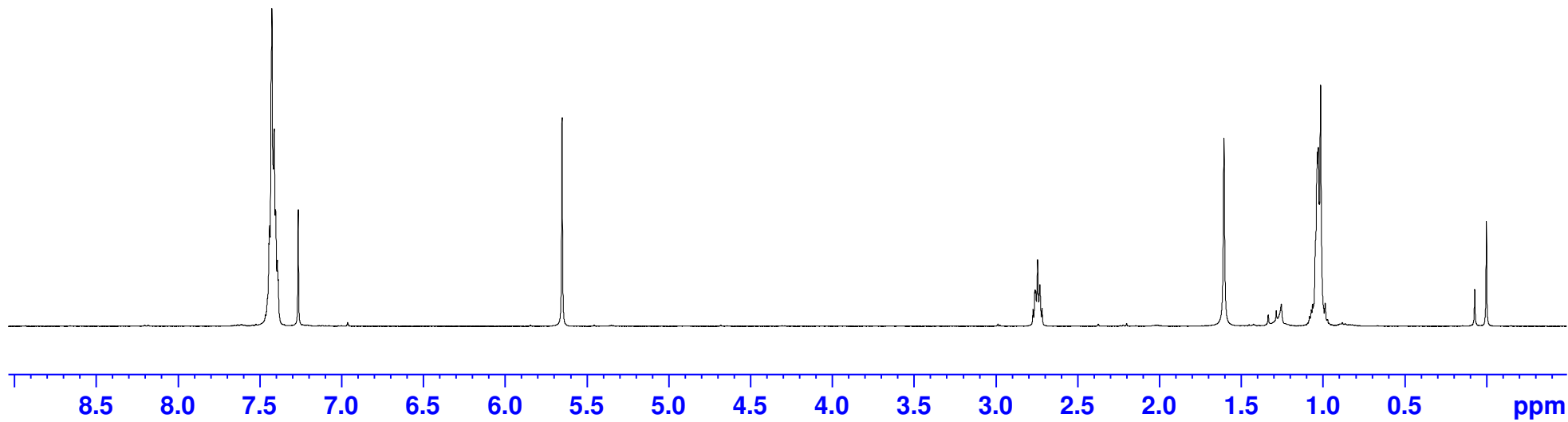
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-0.0000

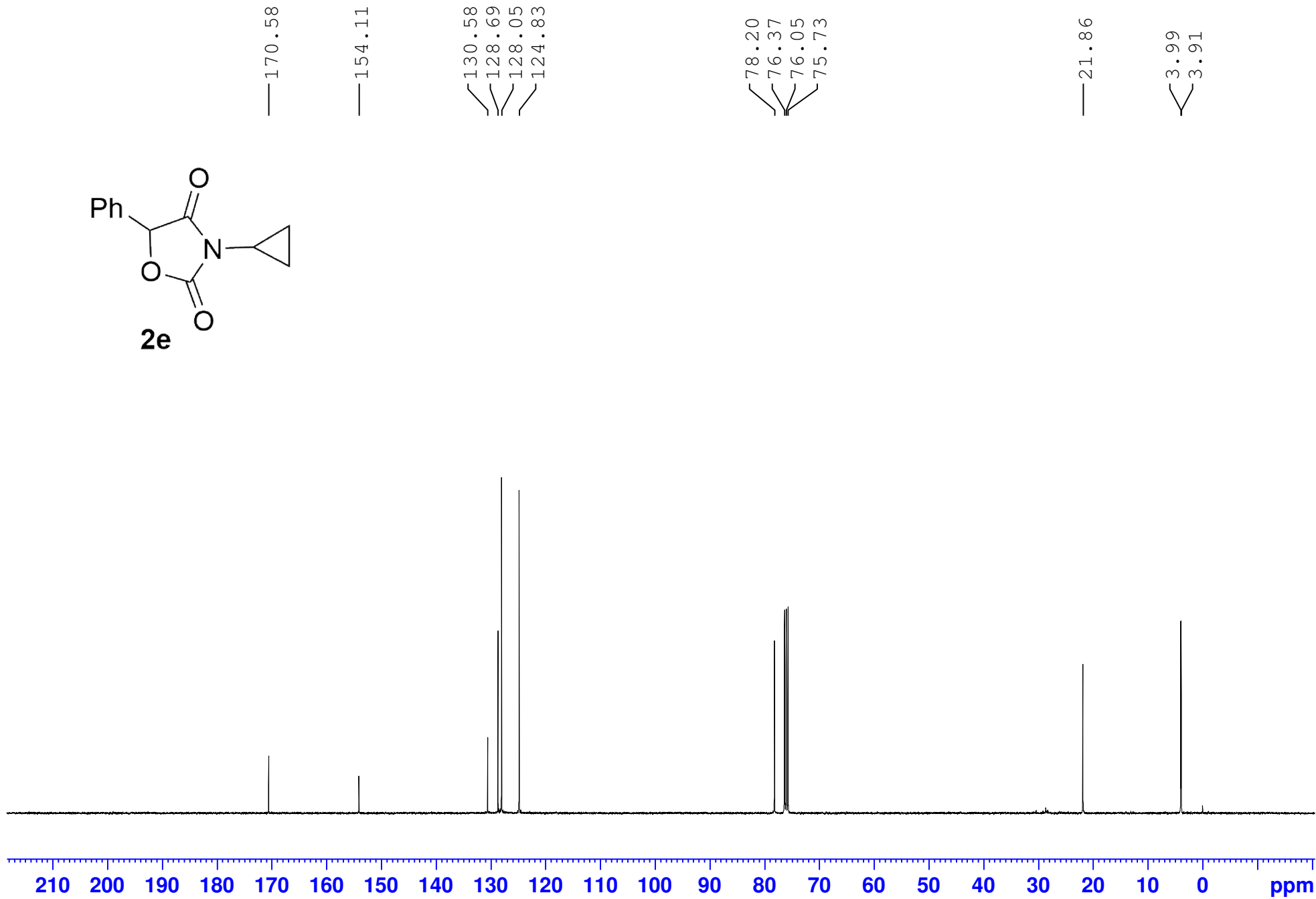
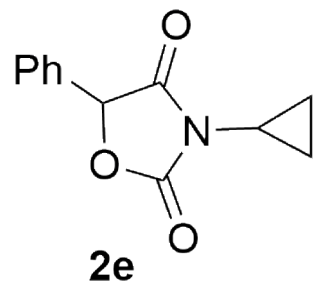


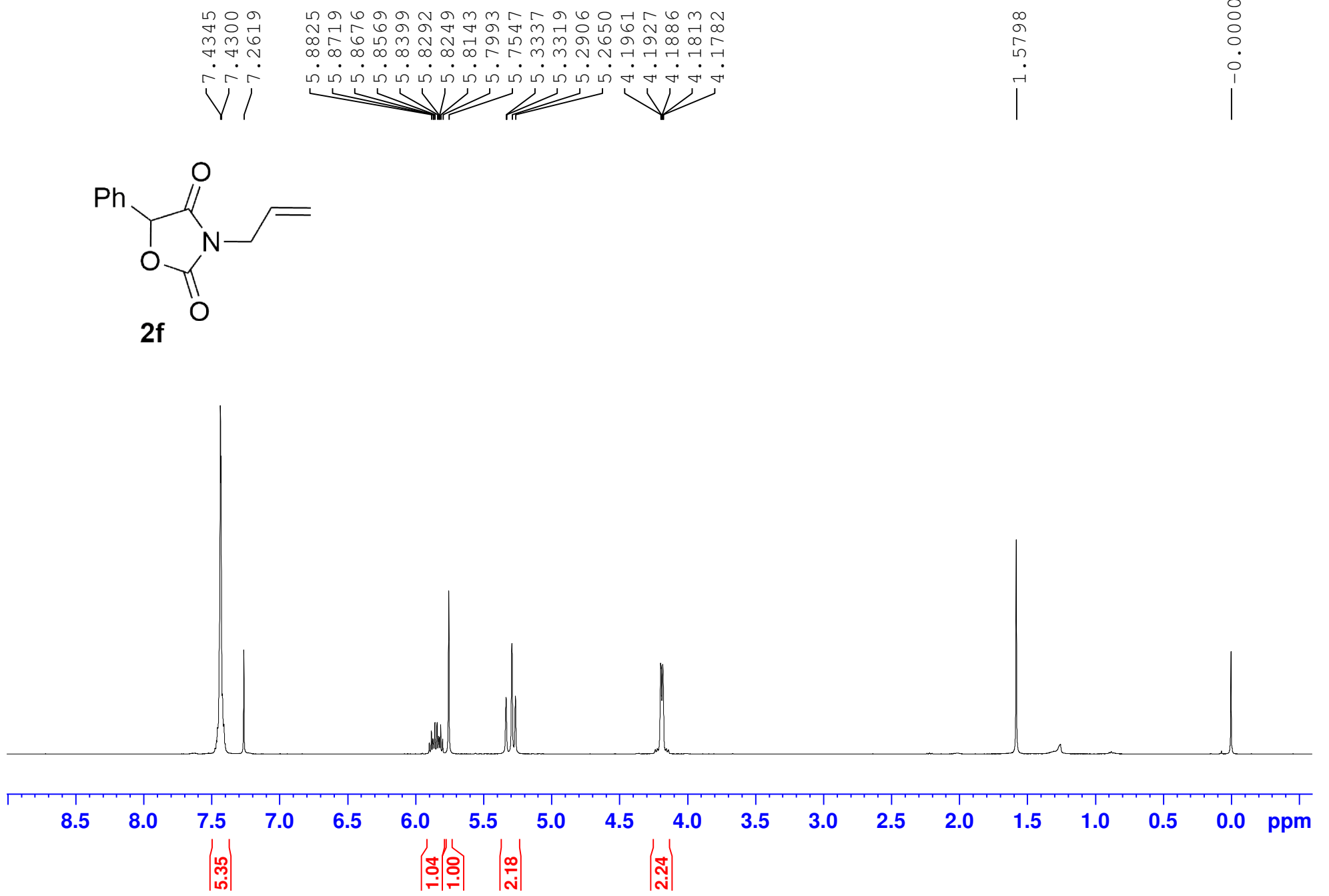
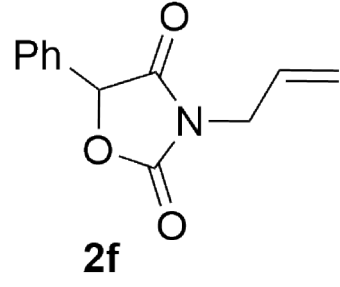
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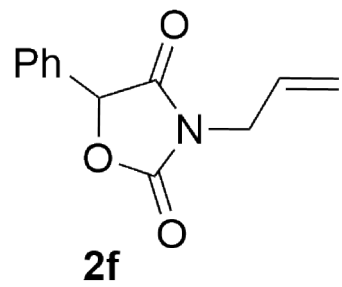
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1.02

4.38







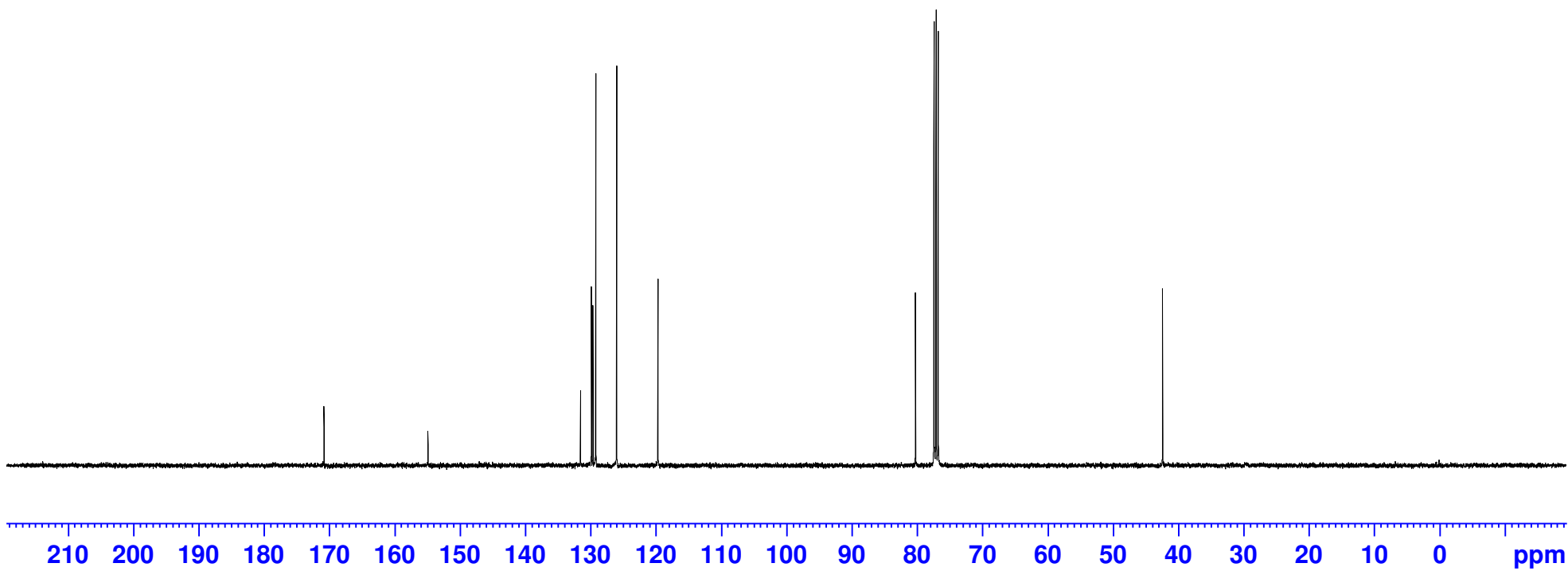
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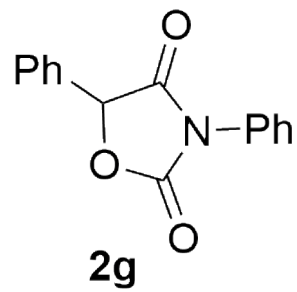
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131.50  
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119.63

80.21  
77.37  
77.05  
76.73

— 42.36



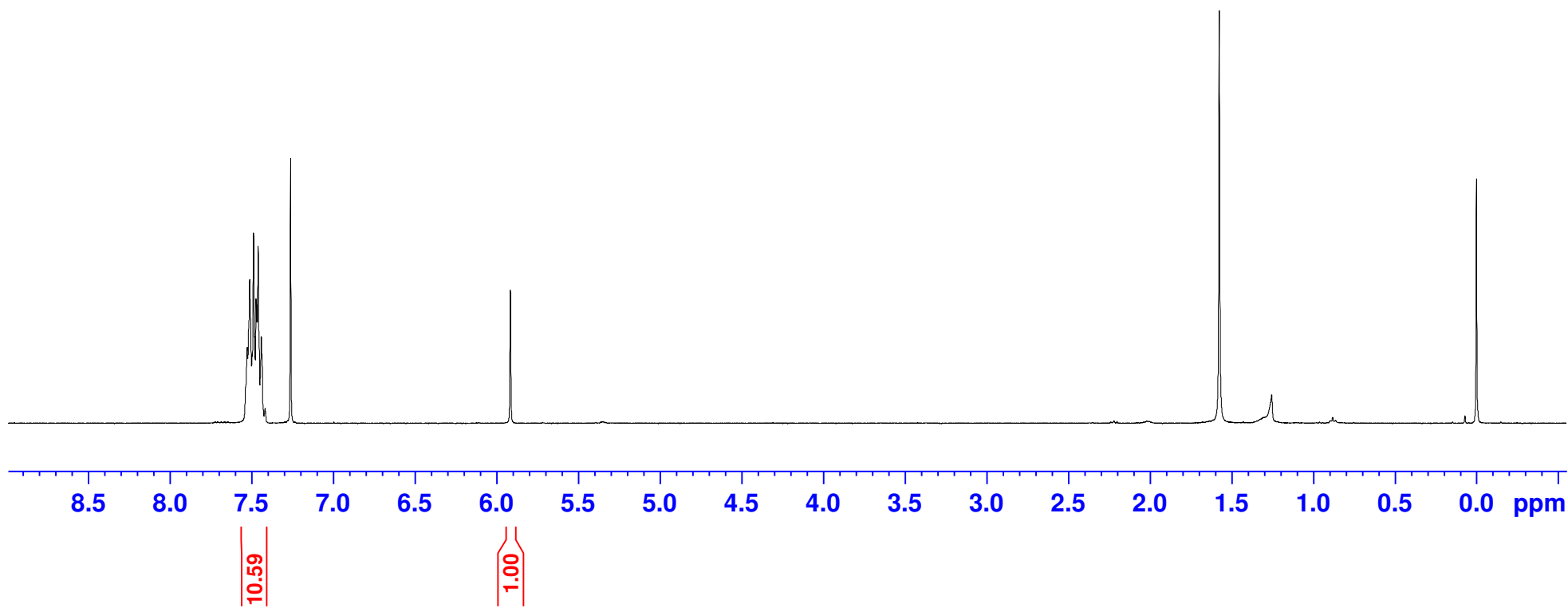


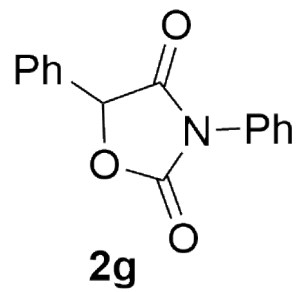
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7.2623

— 5.9162

— 1.5750

— 0.0000



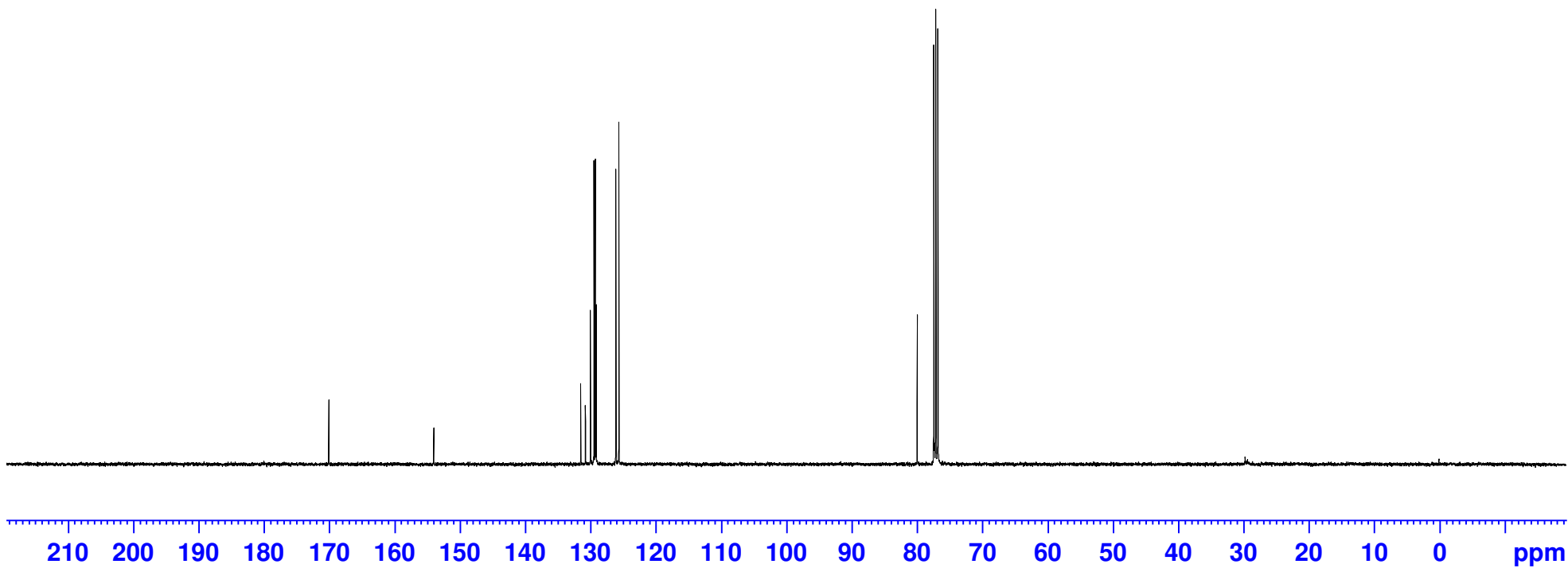


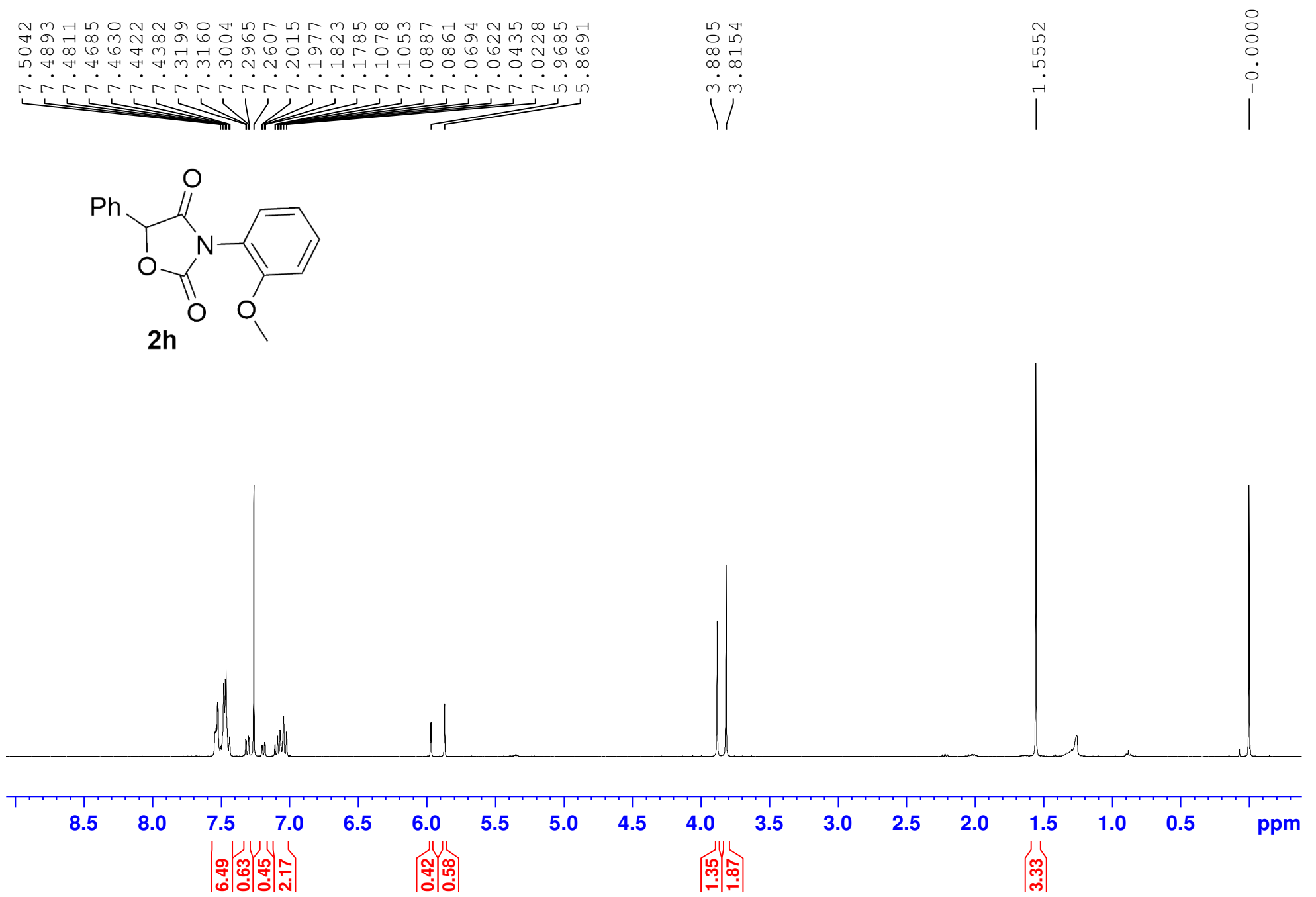
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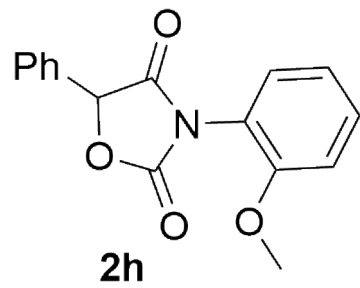
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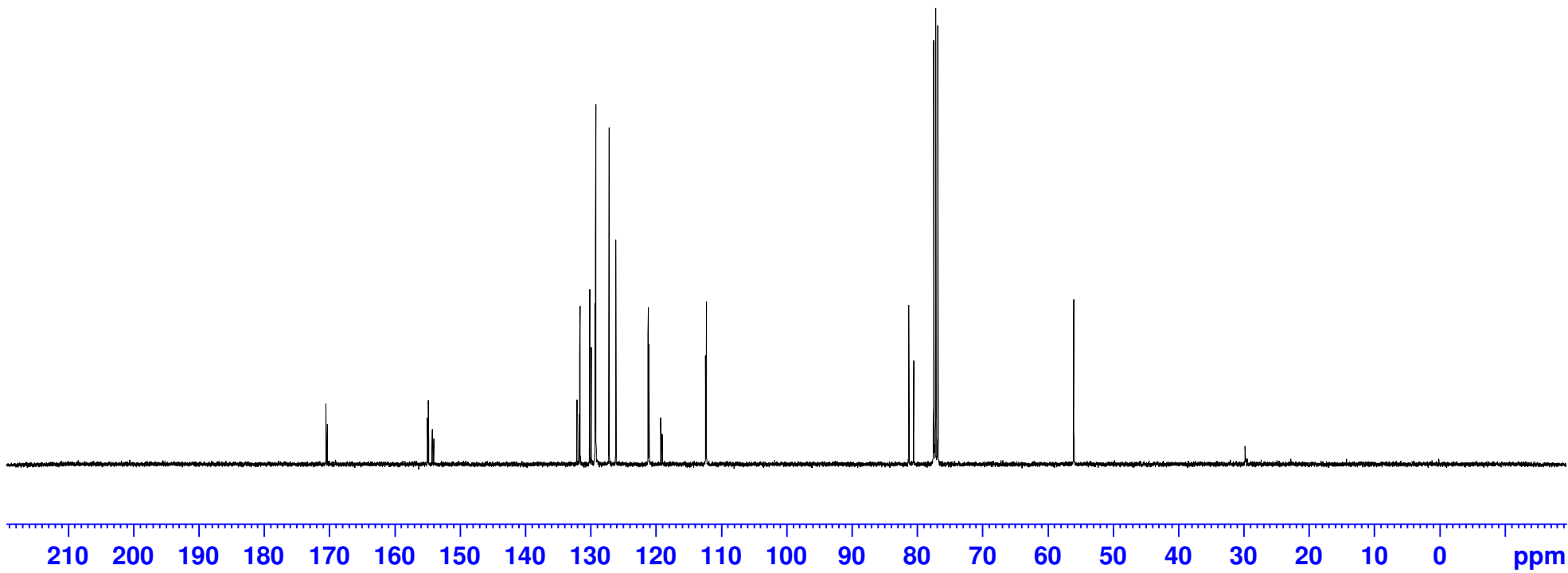
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76.76



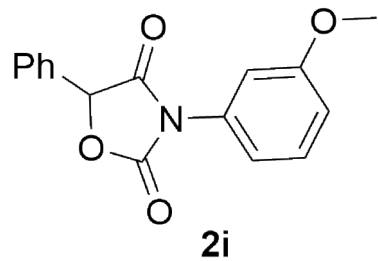




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154.78  
154.22  
153.97  
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130.08  
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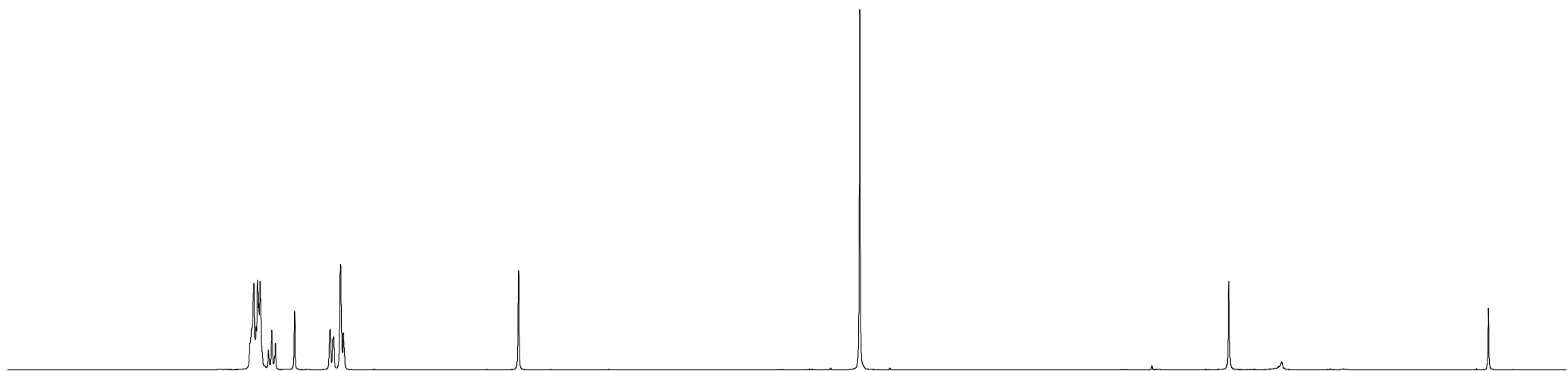
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6.9793  
6.9635

— 5.8980

— 3.8226

— 1.5788

— -0.0000



8.5

8.0

7.5

7.0

6.5

6.0

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4.5

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3.5

3.0

2.5

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1.5

1.0

0.5

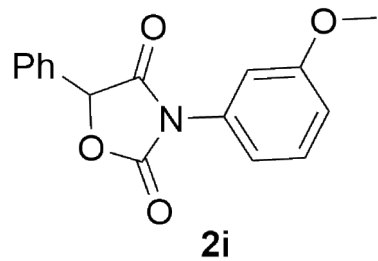
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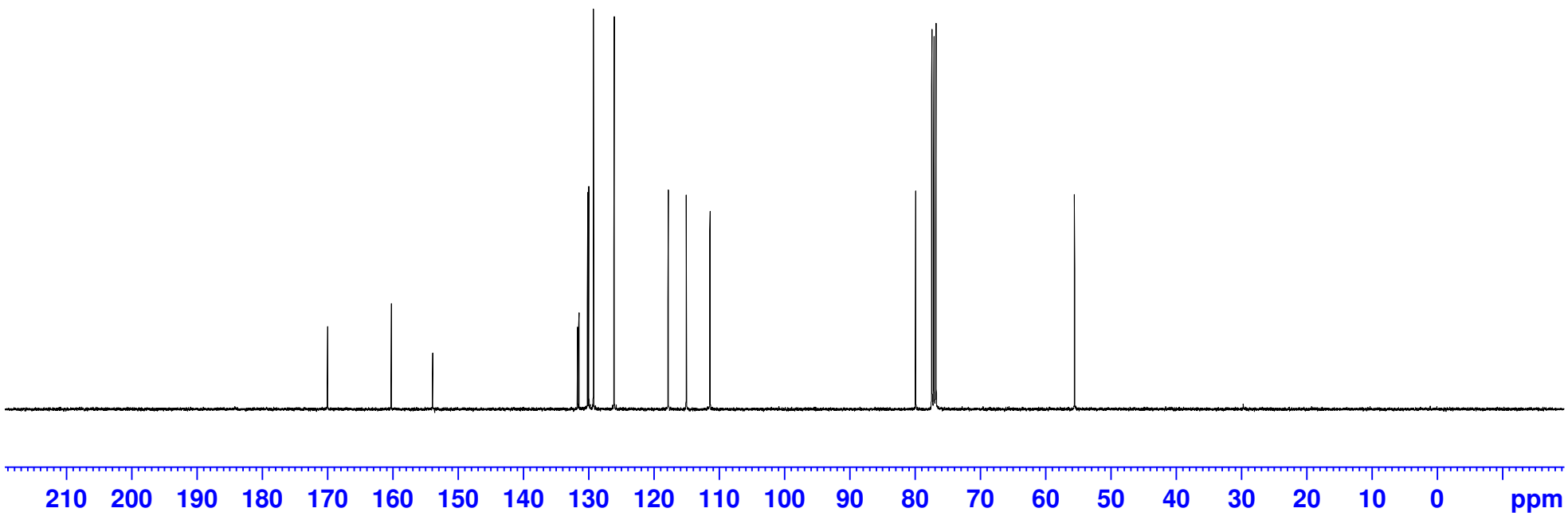
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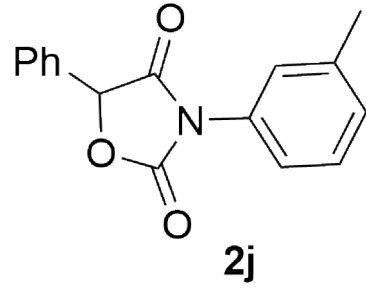
1.00

3.23



— 169.98  
— 160.22  
— 153.89  
131.67  
131.48  
130.15  
129.96  
129.23  
126.08  
117.80  
115.03  
111.40  
79.90  
77.41  
77.09  
76.78  
— 55.54





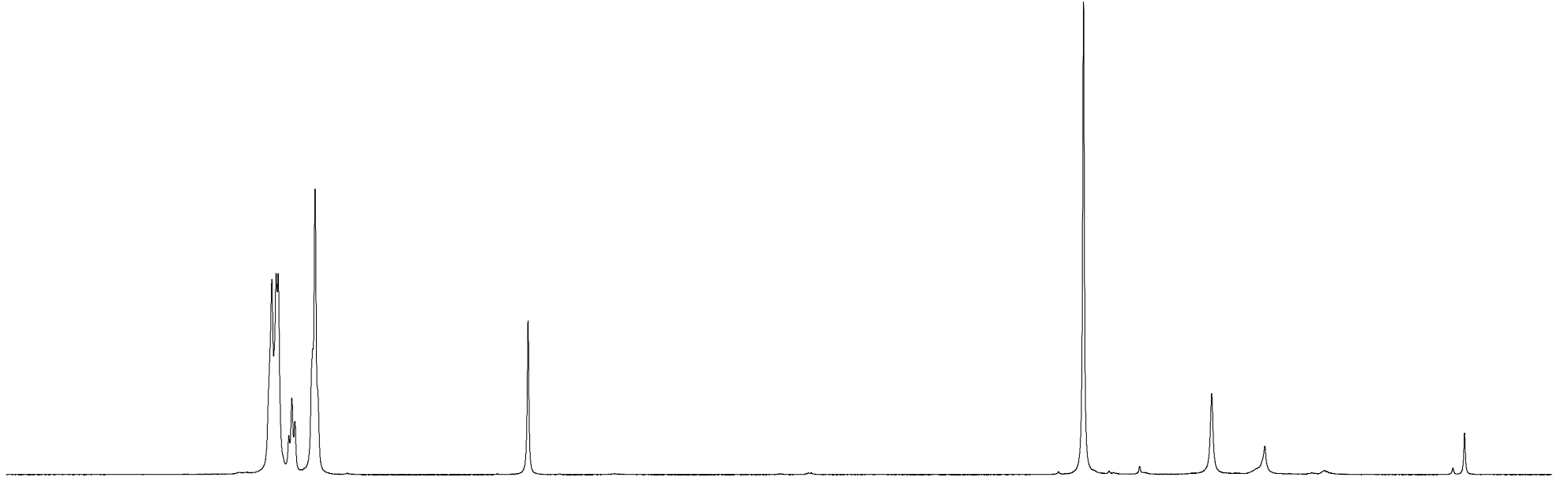
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— 5.8925

— 2.3976

— 1.5909

— -0.0000

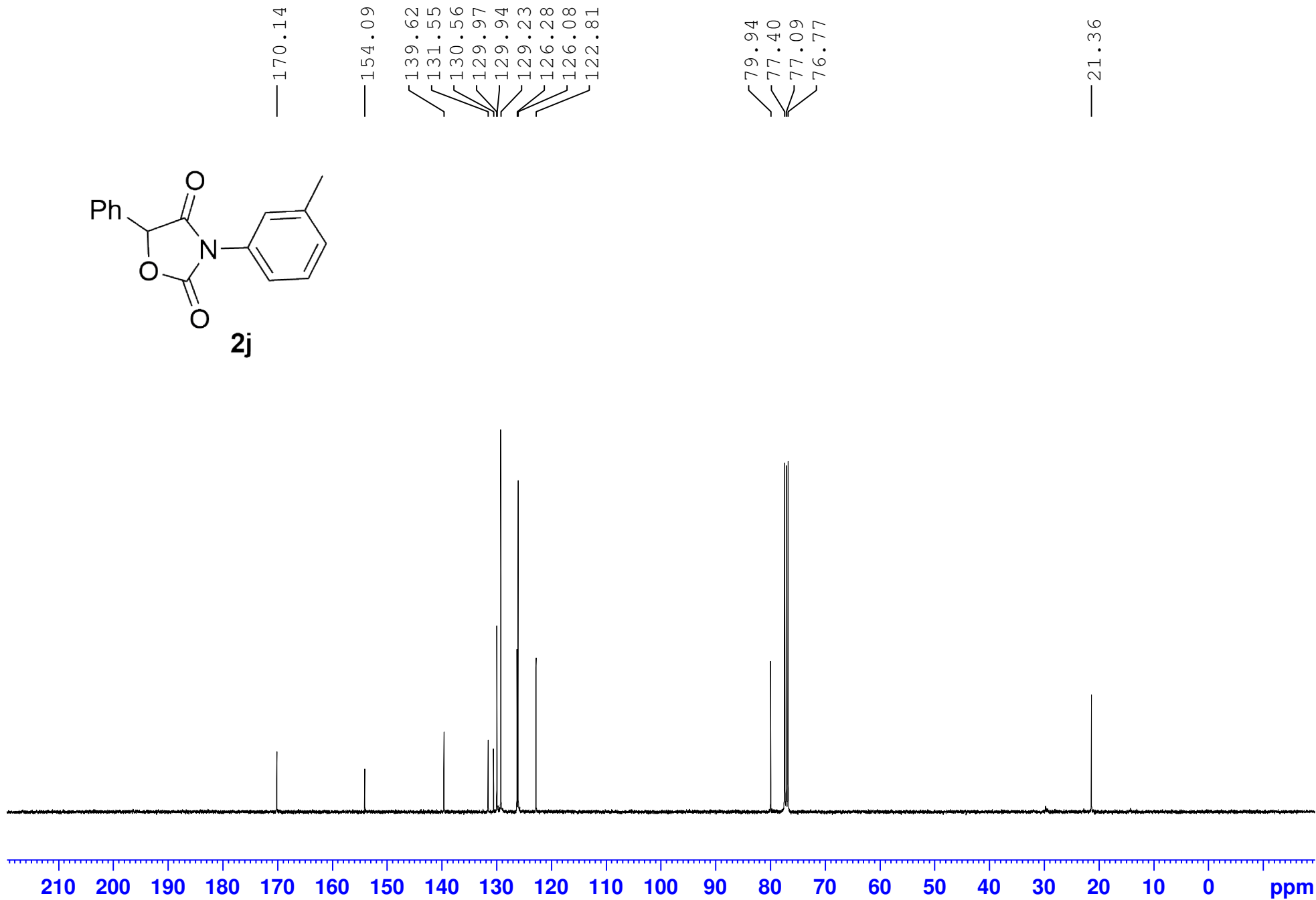
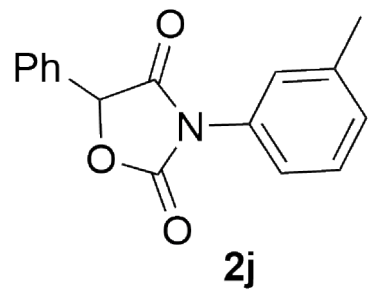


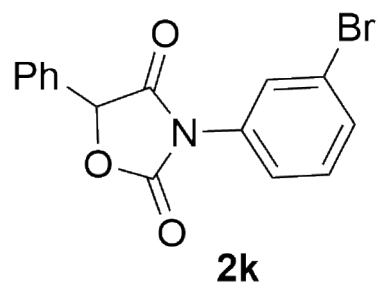
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6.53  
3.49

1.00

3.26

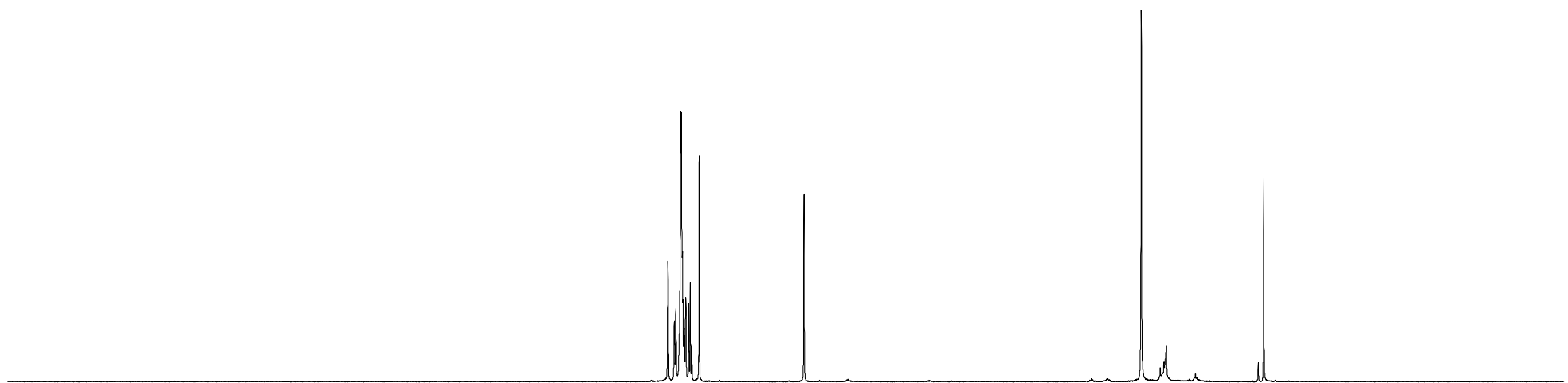




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7.4989  
7.4911  
7.4795  
7.4715  
7.4357  
7.3973  
7.3774  
7.2624  
5.9157

— 1.5767

— 0.0000



15

14

13

12

11

10

9

8

1.02  
8.65

7

6

1.00

5

4

3

2

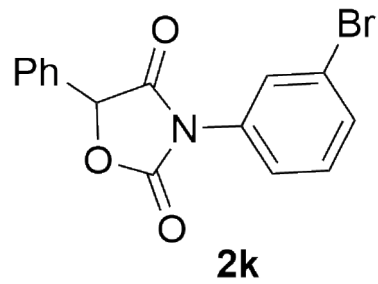
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-2

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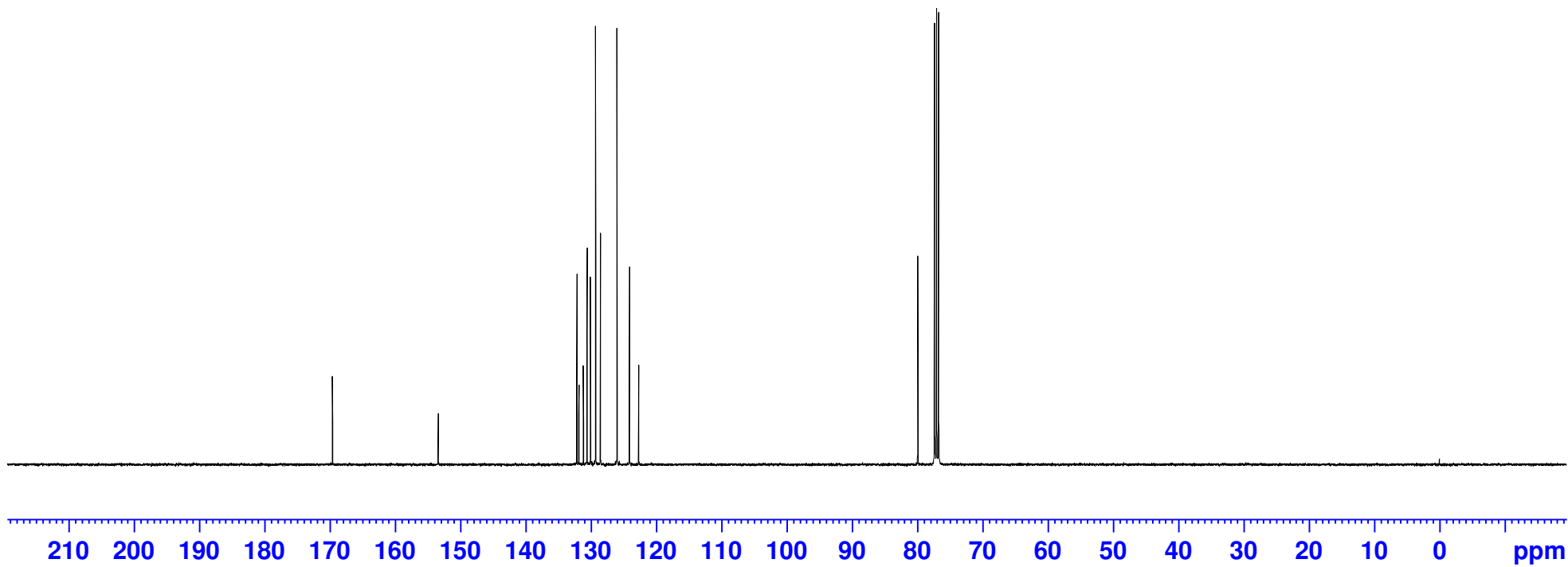


— 169.62

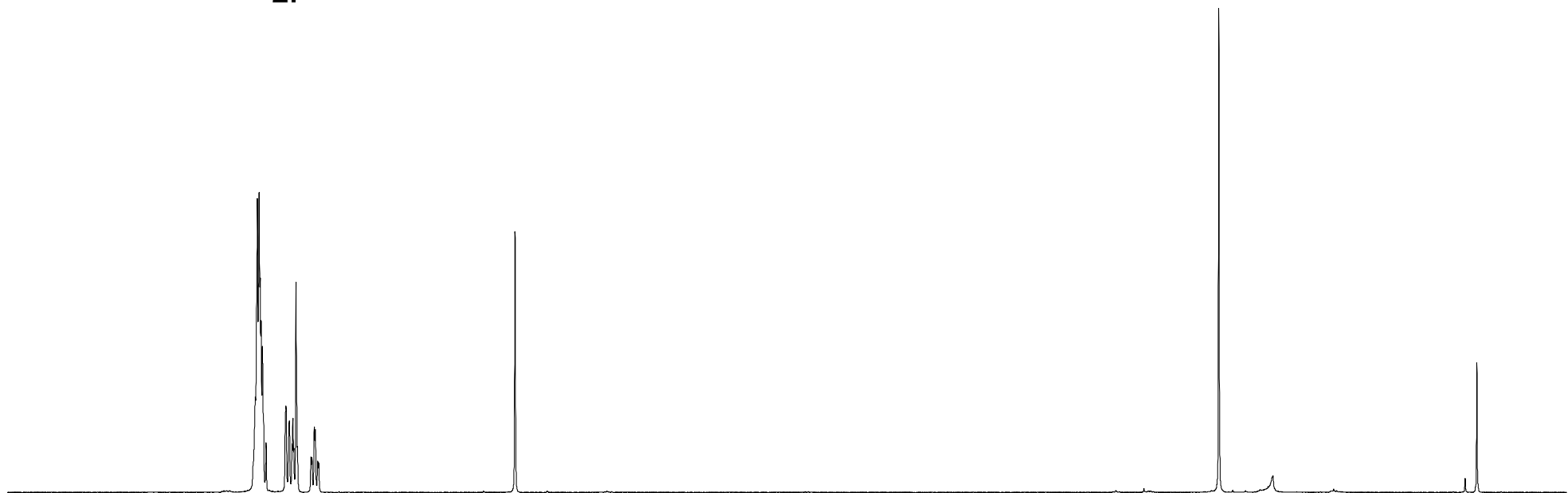
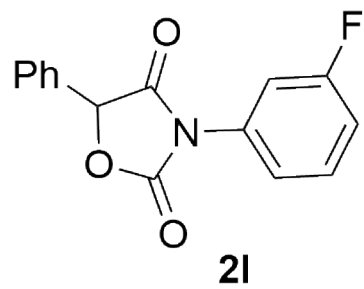
— 153.40

132.18  
131.17  
130.62  
130.09  
129.30  
128.56  
126.02  
124.12  
122.69

79.96  
77.39  
77.07  
76.76



7.5125  
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7.4888  
7.4832  
7.4772  
7.4693  
7.4620  
7.4461  
7.3236  
7.3033  
7.2864  
7.2811  
7.2617  
7.2527  
7.1495  
7.1437  
— 5.9150

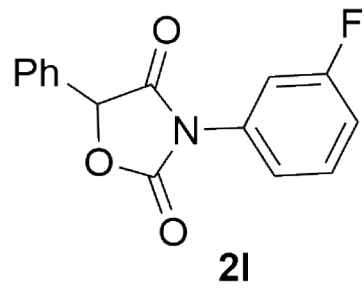


8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 ppm

6.36  
2.61  
1.02  
1.00

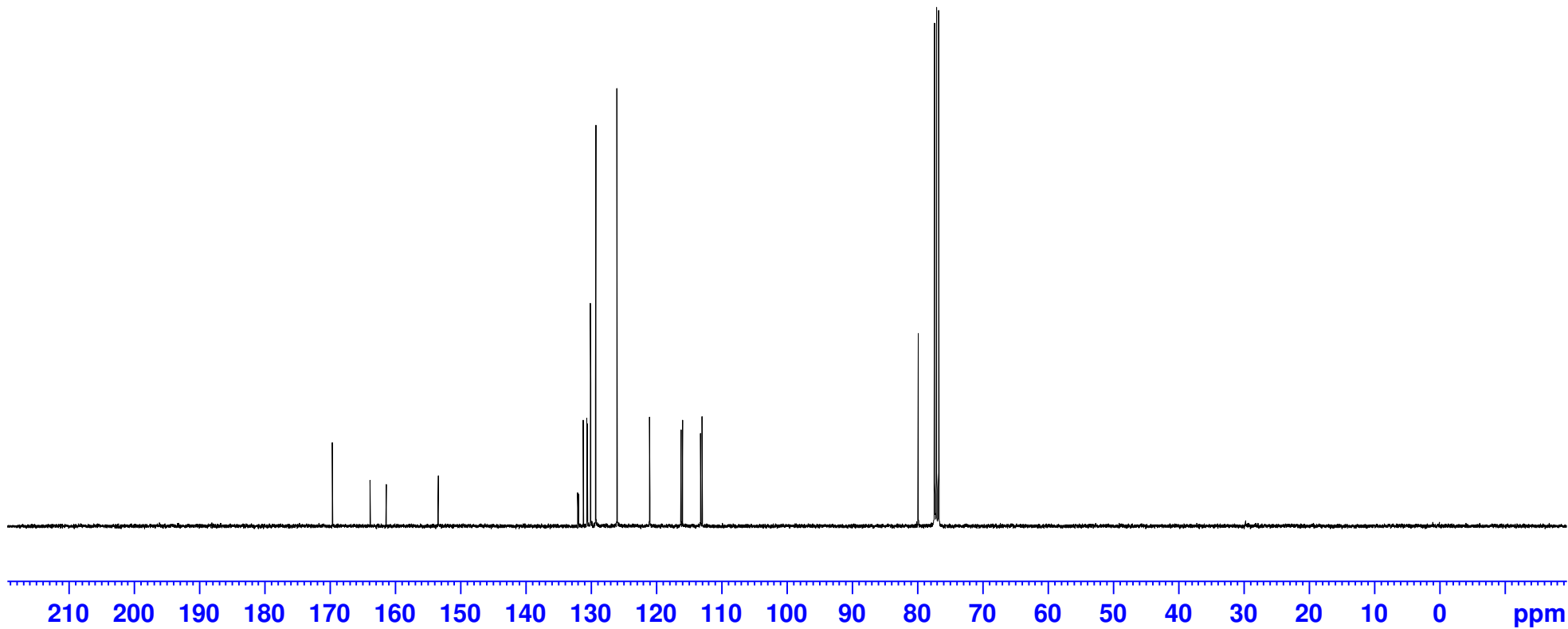
— 1.5869

— 0.0000

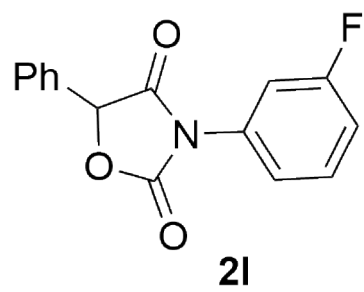


— 169.64  
— 163.86  
— 161.39  
— 153.42  
— 132.03  
— 131.20  
— 130.66  
— 130.57  
— 130.07  
— 129.29  
— 126.03  
— 121.05  
— 121.02  
— 116.21  
— 116.00  
— 113.24  
— 112.99

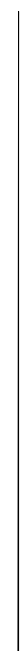
— 79.88  
— 77.38  
— 77.07  
— 76.75



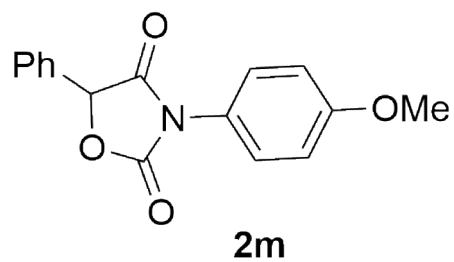




— -110.14



0 -20 -40 -60 -80 -100 -120 -140 -160 -180 -200 ppm



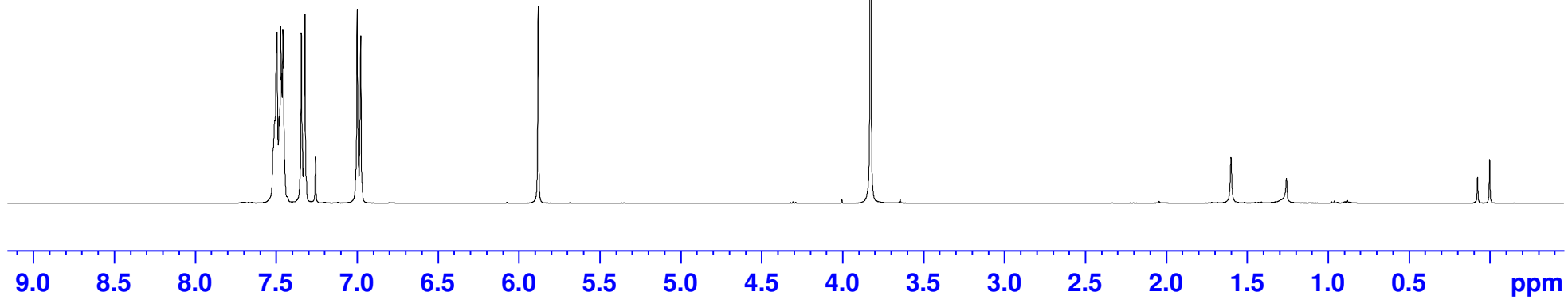
7.4942  
7.4709  
7.4650  
7.4573  
7.4530  
7.3432  
7.3210  
6.9985  
6.9761

5.8797

3.8254

1.5982

-0.0000

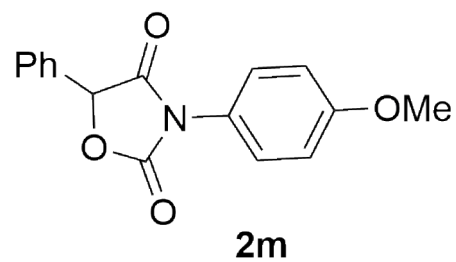


5.32  
2.09

2.14

1.00

3.16



— 170.28

— 159.85

— 154.30

131.56

129.92

129.21

127.10

126.07

123.24

114.68

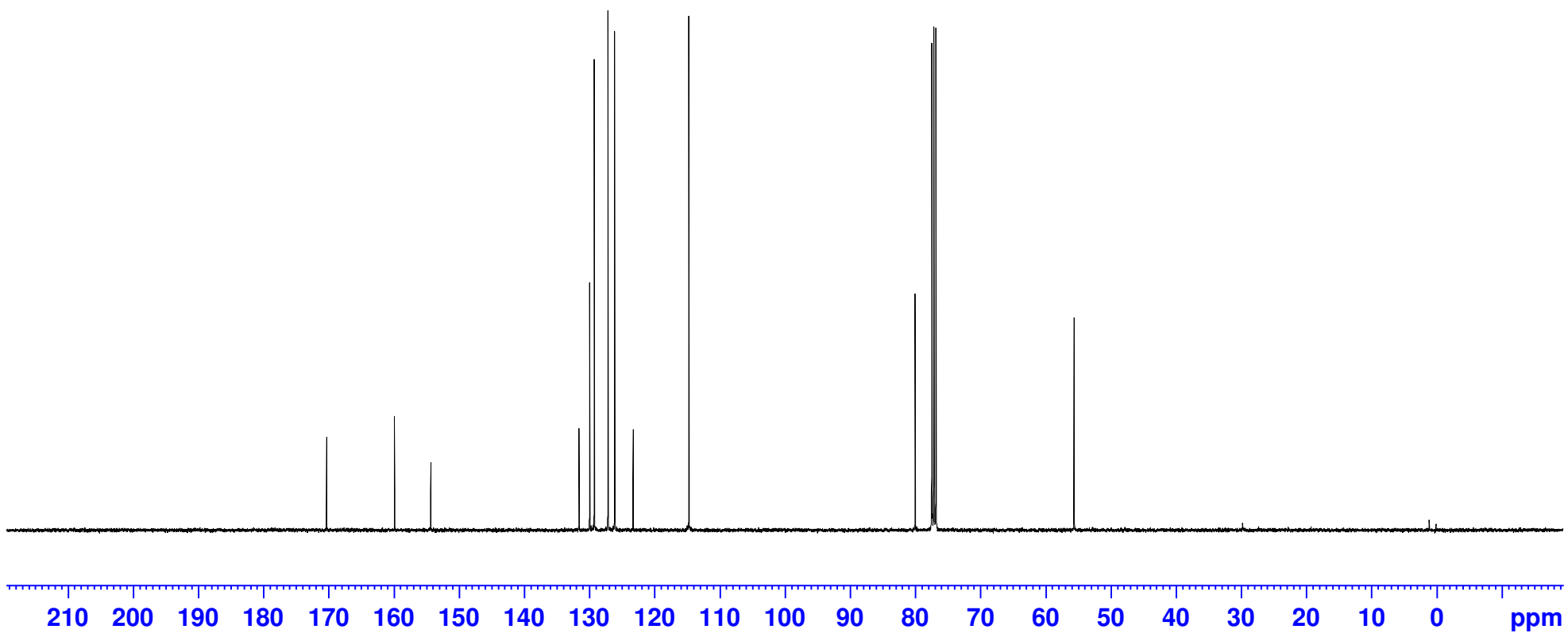
79.96

77.41

77.09

76.77

— 55.57



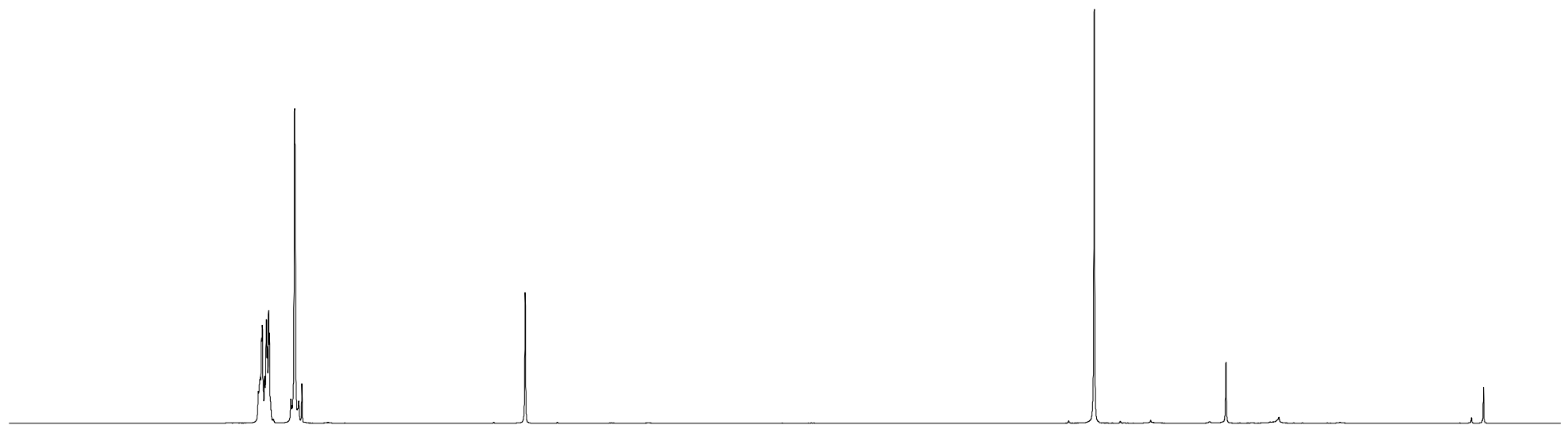
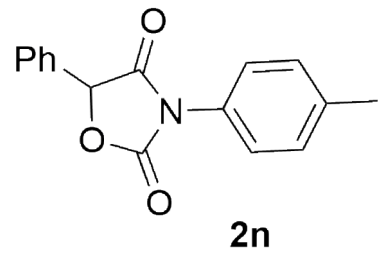
7.5212  
7.5100  
7.5017  
7.4971  
7.4824  
7.4716  
7.4657  
7.4583  
7.4533  
7.3219  
7.3145  
7.2734  
7.2539

— 5.8830

— 2.3896

— 1.5809

— -0.0000

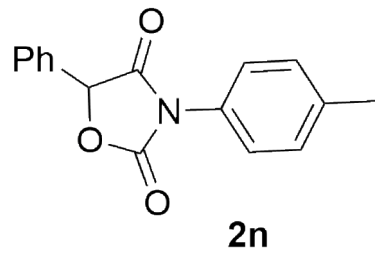


8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

5.32  
4.50

1.00

3.23



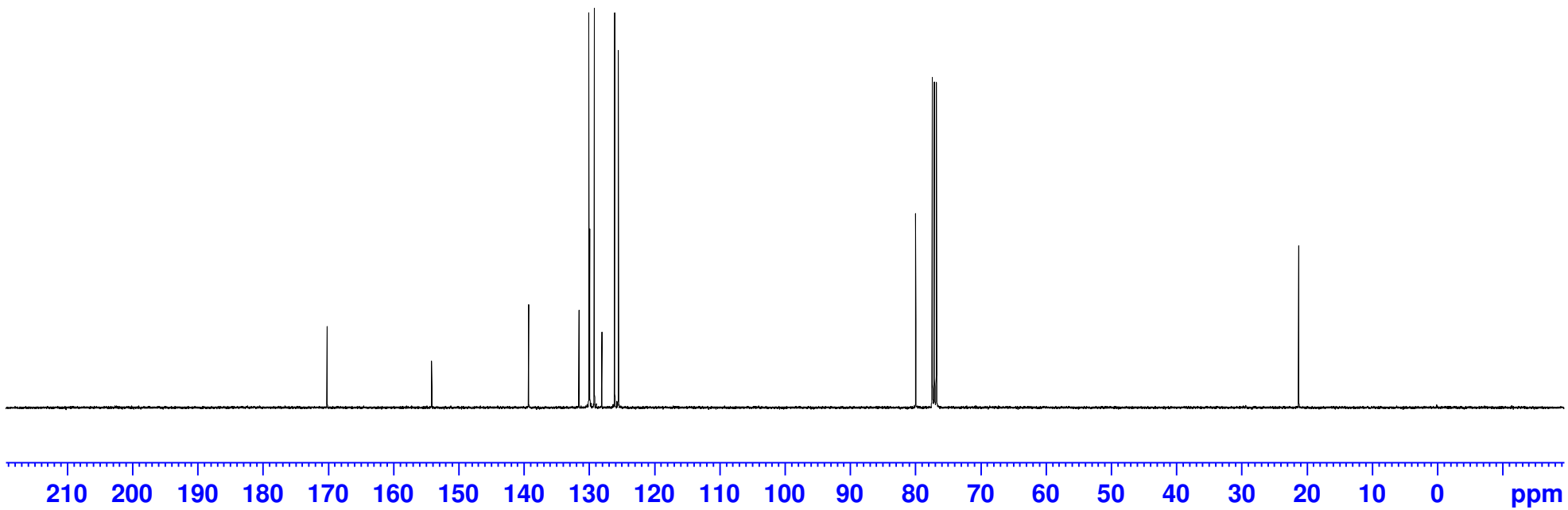
— 170.18

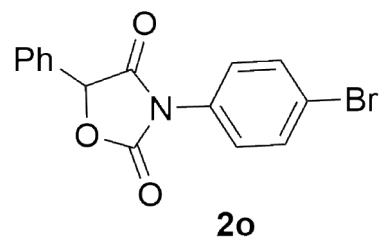
— 154.15

139.28  
131.57  
130.05  
129.92  
129.21  
128.08  
126.09  
125.52

79.95  
77.42  
77.10  
76.78

— 21.25





7.6395  
7.6177  
7.4944  
7.4852  
7.4735  
7.3812  
7.3594  
7.2616

5.9089

1.5843

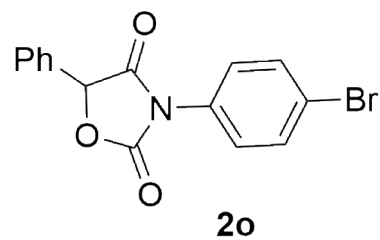
0.0000



8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 ppm

2.09  
5.33  
2.09

1.00

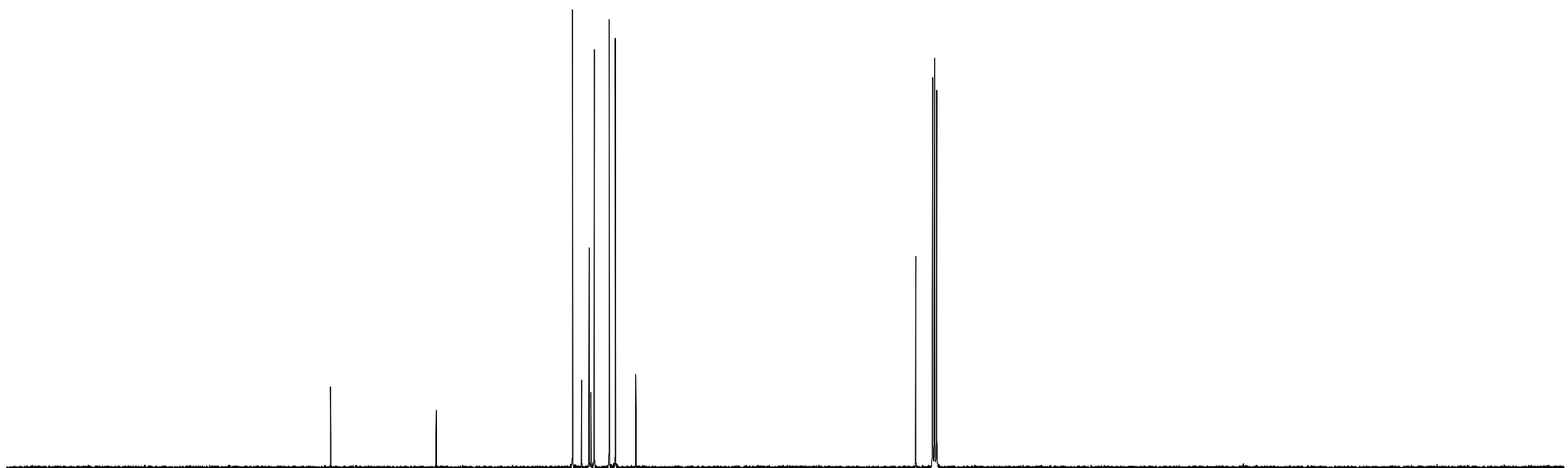


— 169.69

— 153.51

132.59  
131.21  
130.06  
129.78  
129.28  
126.98  
126.03  
122.89

79.98  
77.40  
77.08  
76.77



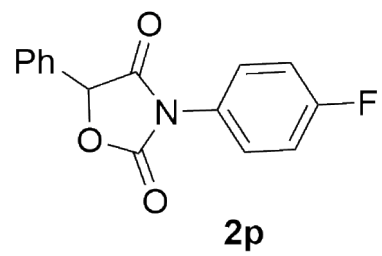
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

7.5034  
7.4994  
7.4932  
7.4844  
7.4791  
7.4713  
7.4653  
7.4527  
7.4419  
7.4301  
7.2598  
7.2095  
7.1888  
7.1667

— 5.9109

— 1.5660

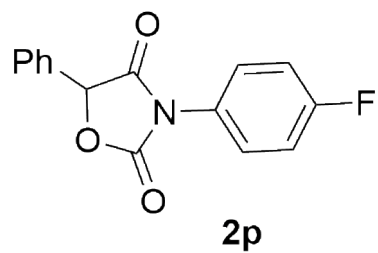
— 0.0000



8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

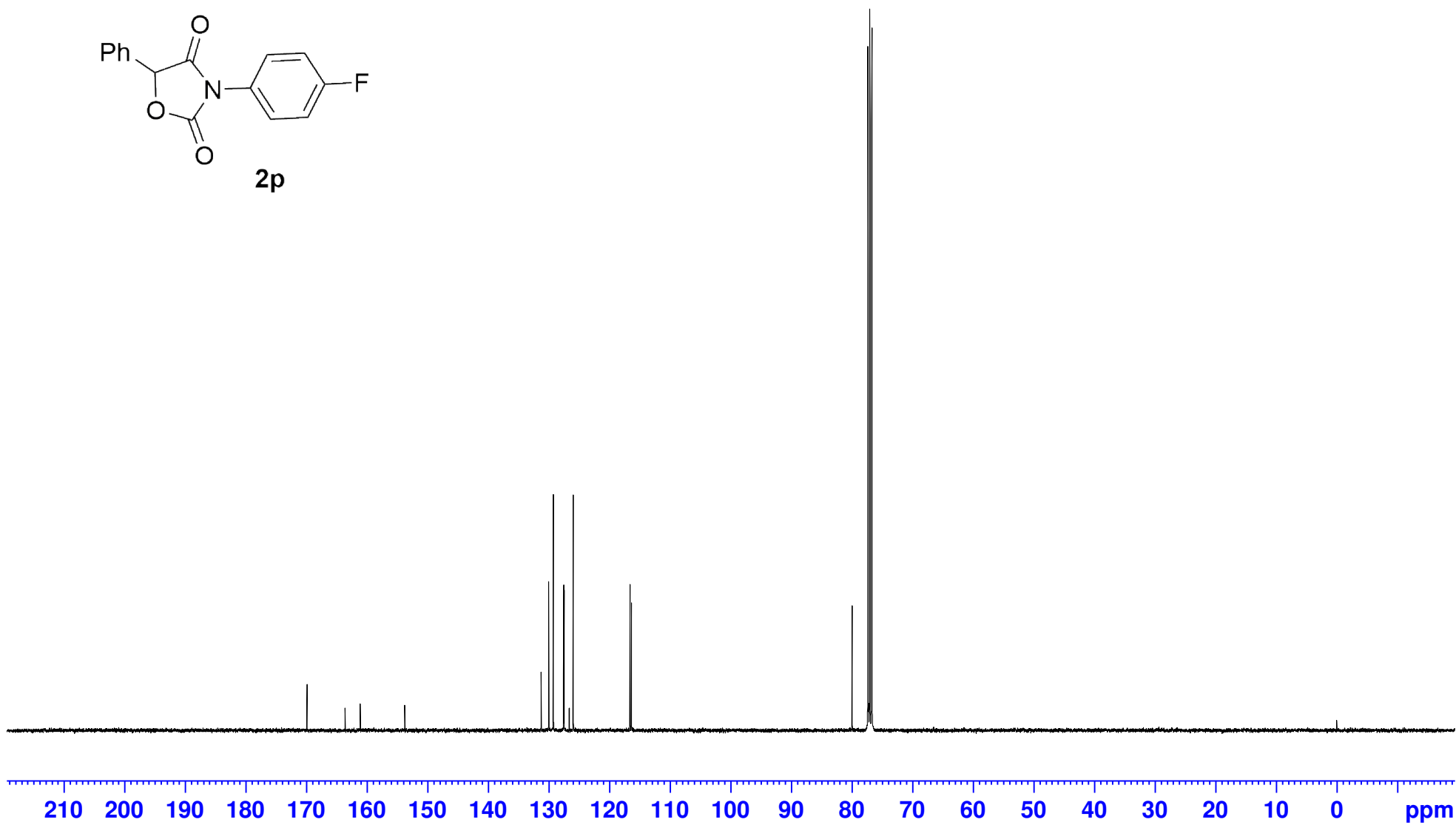
7.43  
2.13  
1.00

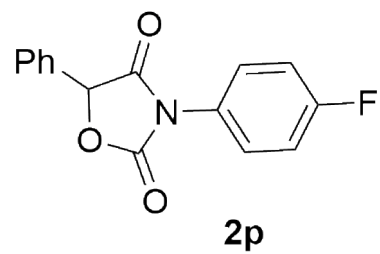




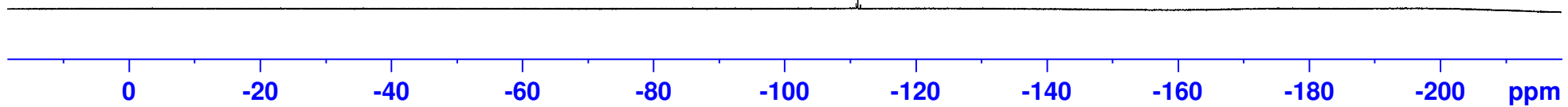
— 169.90  
— 163.61  
— 161.13  
— 153.79  
131.29  
130.02  
129.26  
127.57  
127.49  
126.65  
126.62  
125.99  
116.61  
116.38

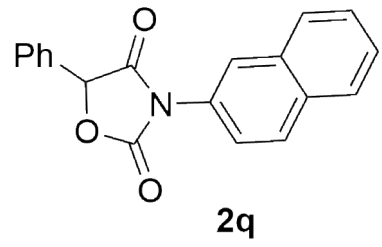
79.96  
77.35  
77.03  
76.71





— -111.21



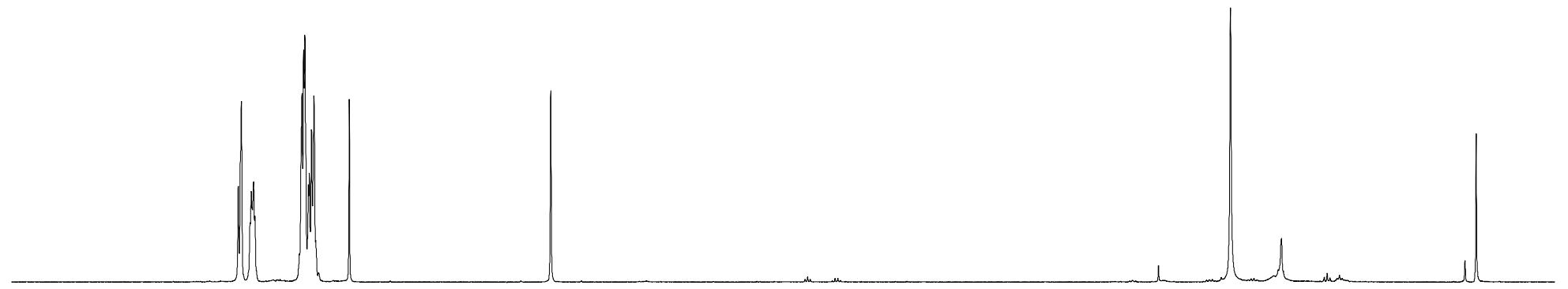


7.9746  
7.9545  
7.8989  
7.8907  
7.8849  
7.8757  
7.8674  
7.5641  
7.5540  
7.5457  
7.5221  
7.5168  
7.5031  
7.4872  
7.2594

— 5.9614

— 1.5829

— -0.0000

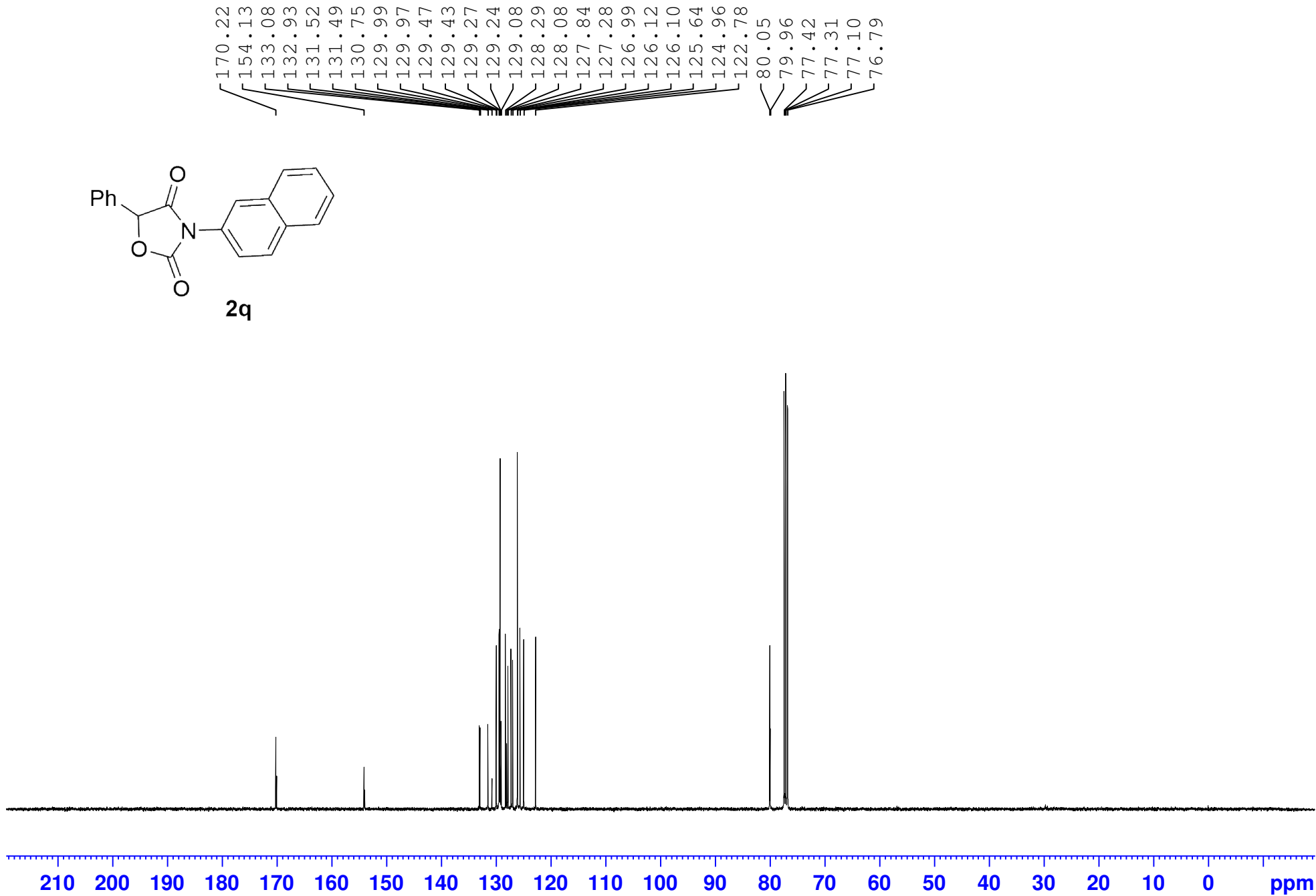
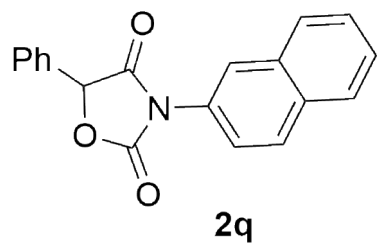


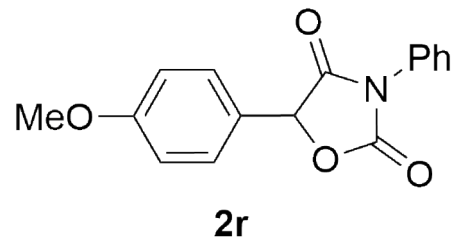
9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

4.30

8.55

1.00





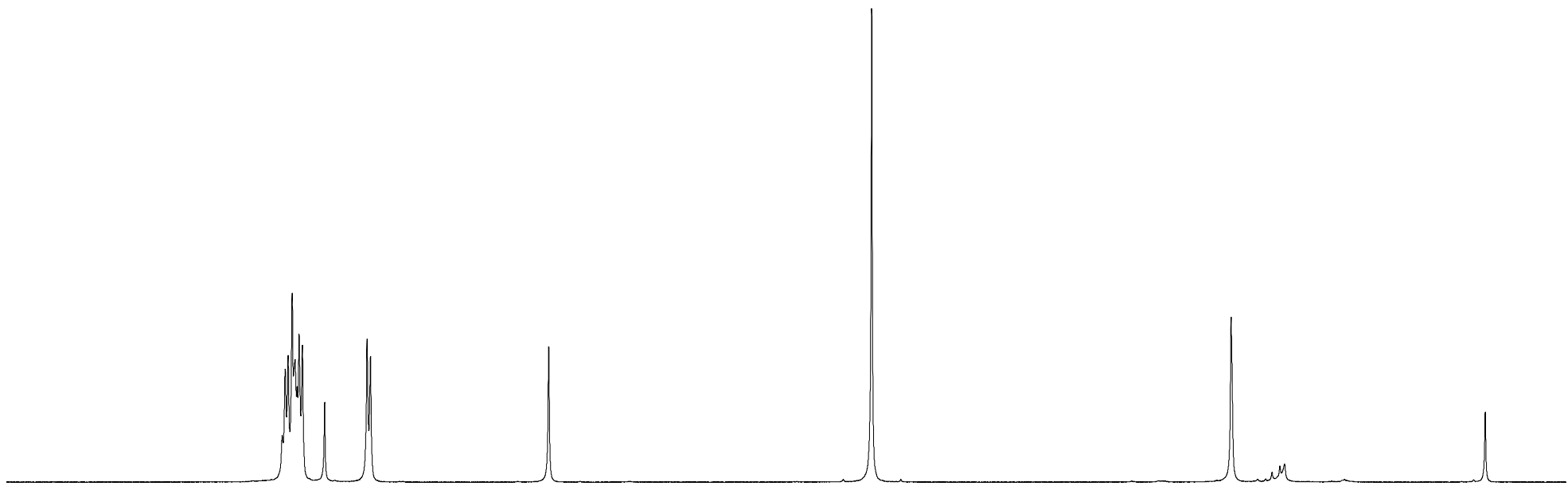
7.5076  
7.4892  
7.4636  
7.4458  
7.4329  
7.4210  
7.3998  
6.9953  
6.9739

5.8589

3.8383

1.5896

-0.0000



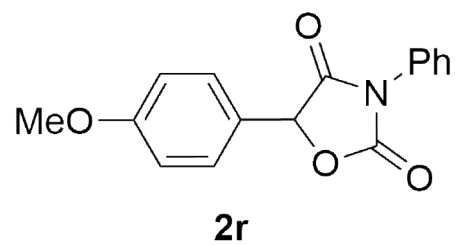
9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

7.51

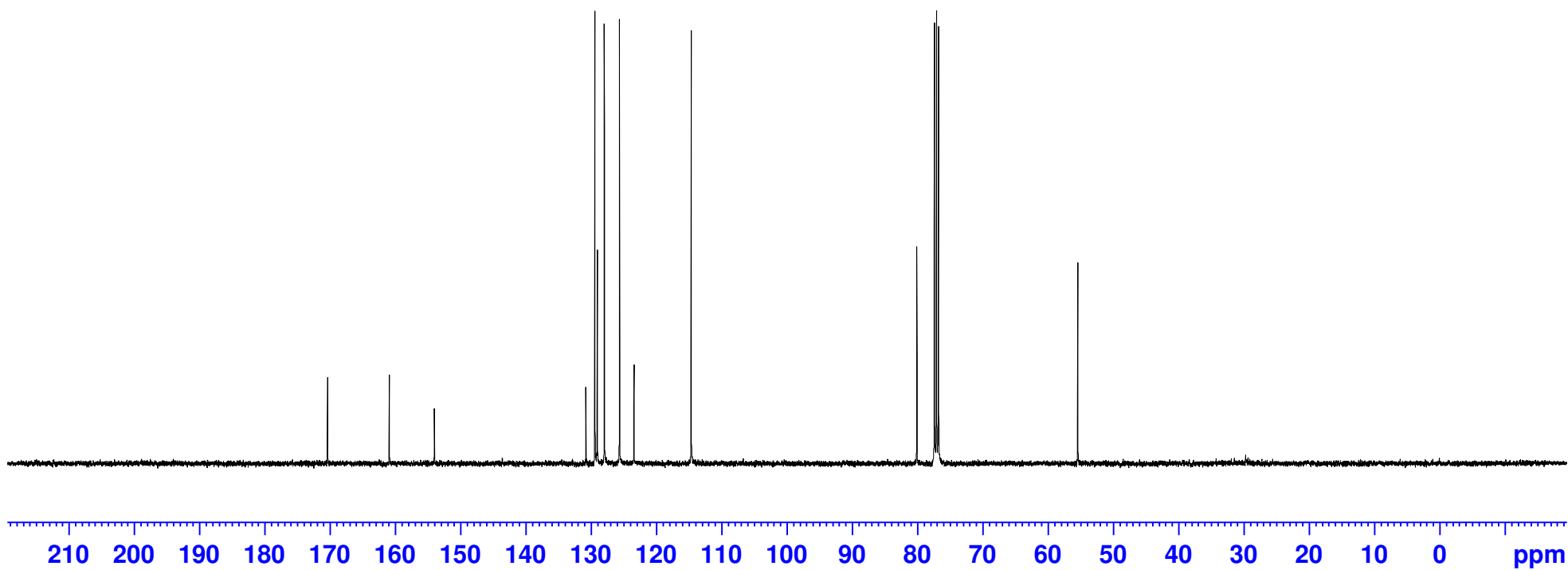
2.13

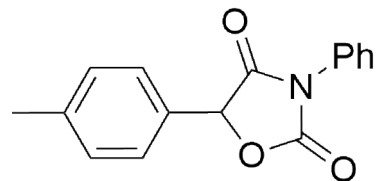
1.00

3.28



— 170.37  
— 160.91  
— 154.02  
— 130.81  
— 129.42  
— 129.04  
— 127.97  
— 125.64  
— 123.43  
— 114.67  
— 80.09  
— 77.40  
— 77.08  
— 76.77  
— 55.44





2s

7.4954  
7.4772  
7.4511  
7.4432  
7.4327  
7.3891  
7.3689  
7.2825  
7.2625

5.8613

2.3886

1.5894

0.0000



8.5

8.0

7.5

7.0

6.5

6.0

5.5

5.0

4.5

4.0

3.5

3.0

2.5

2.0

1.5

1.0

0.5

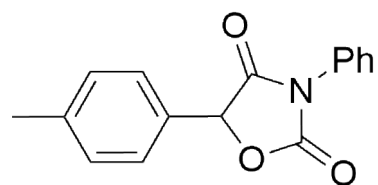
ppm

7.31

2.33

1.00

3.18



2s

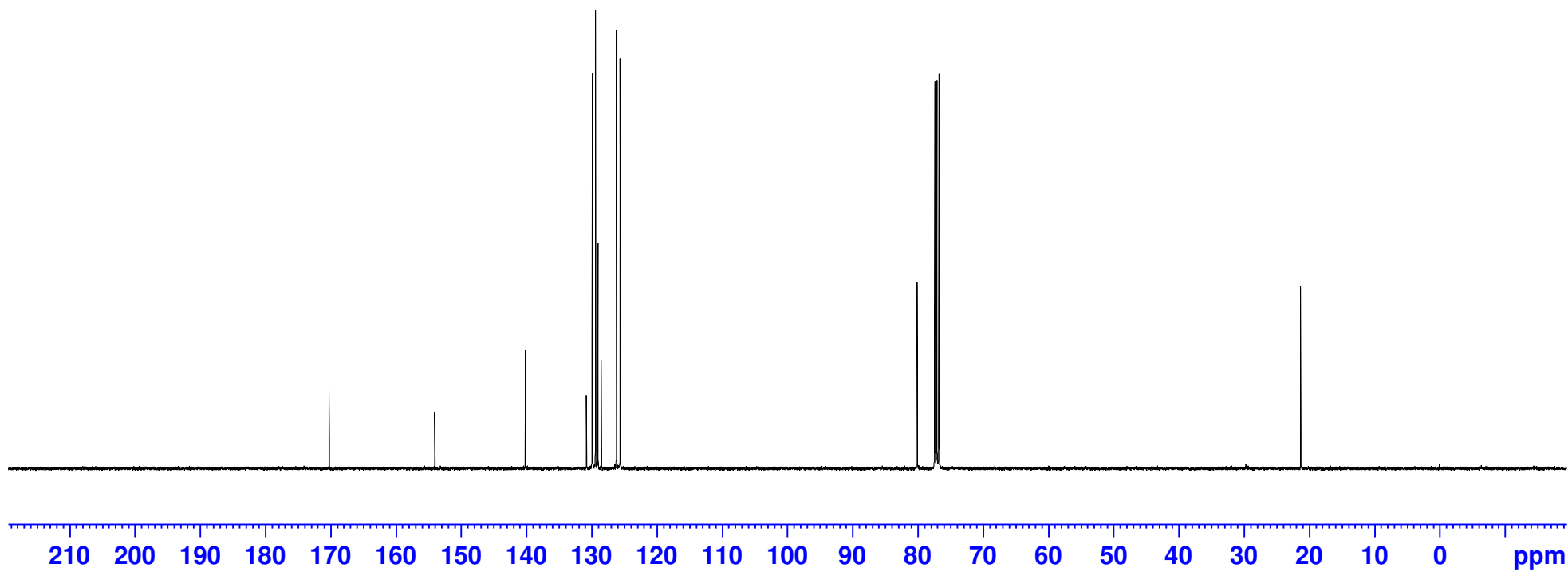
— 170.24

— 154.05

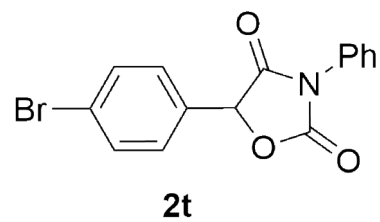
140.16  
130.80  
129.92  
129.41  
129.03  
128.53  
126.19  
125.64

80.10  
77.40  
77.09  
76.77

— 21.32







7.6299  
7.6089  
7.5077  
7.4898  
7.4569  
7.4429  
7.4276  
7.4076  
7.2620

5.8691

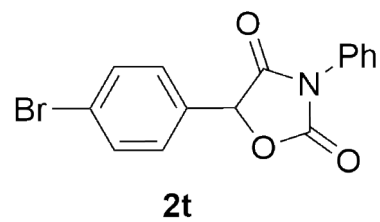
1.5734

0.0000



8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

2.16  
2.21  
5.33  
1.00

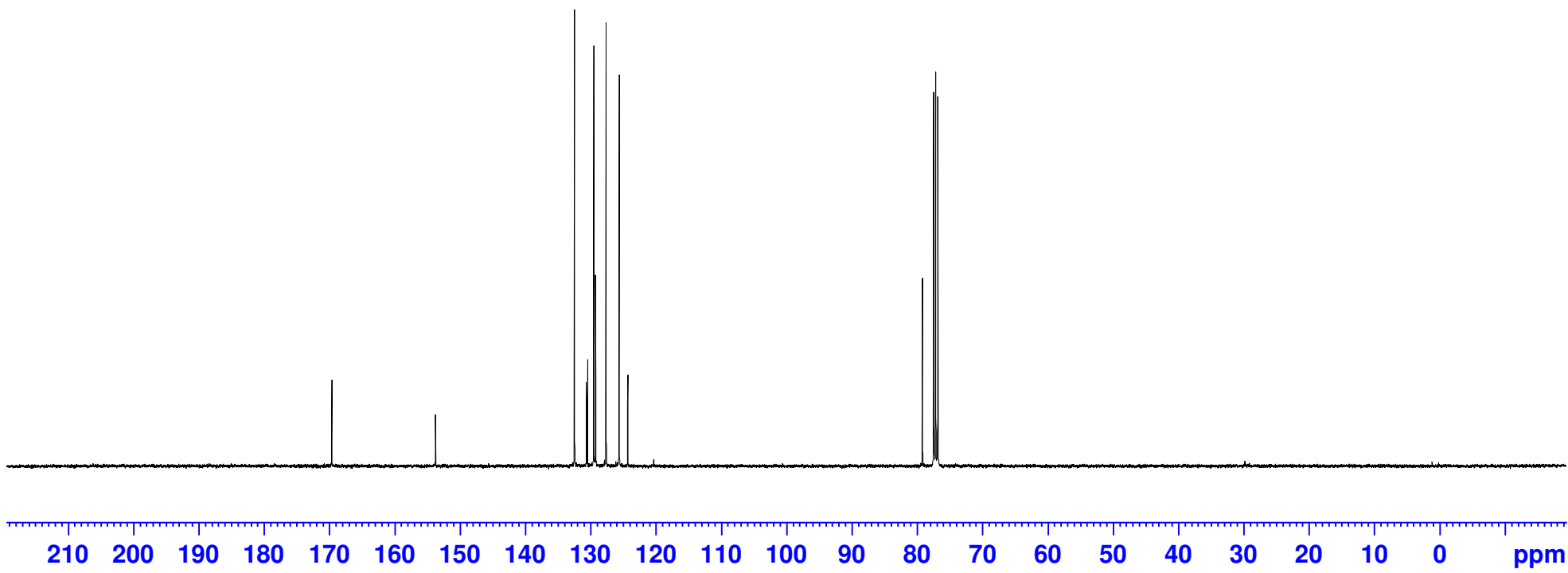


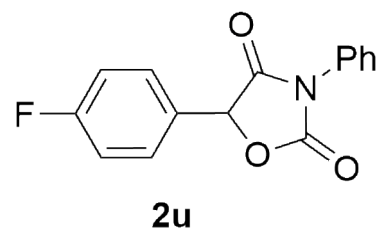
— 169.59

— 153.70

132.42  
130.58  
130.41  
129.46  
129.18  
127.58  
125.57  
124.26

79.13  
77.42  
77.10  
76.78



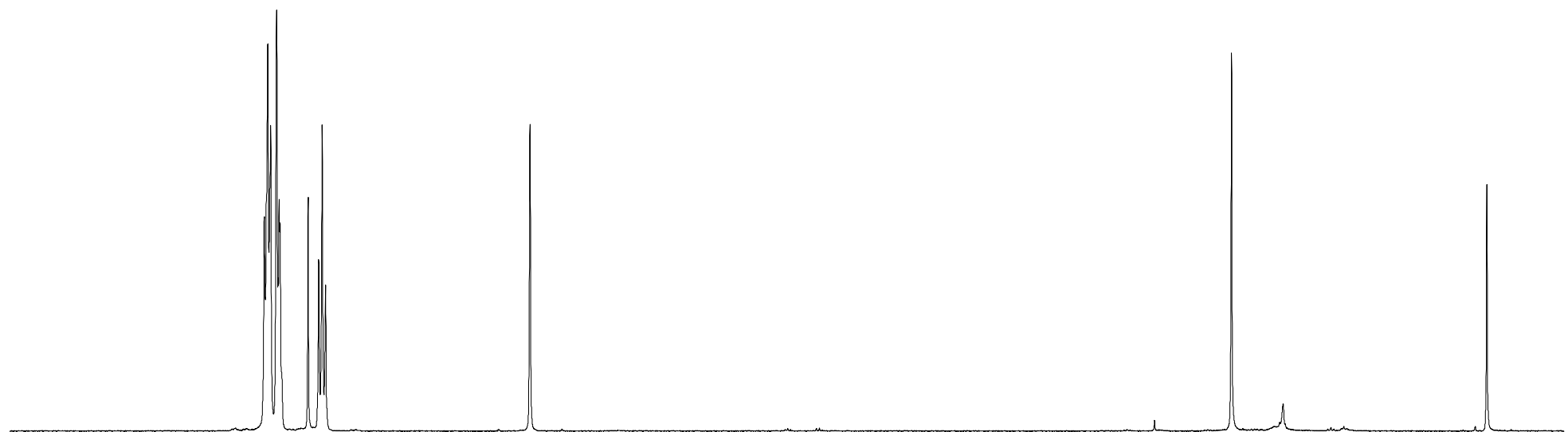


7.5319  
7.5185  
7.5103  
7.4925  
7.4551  
7.4465  
7.4397  
7.4351  
7.2614  
7.1963  
7.1750  
7.1535

5.8949

1.5732

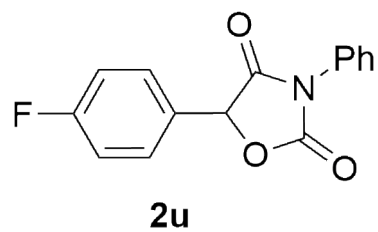
0.0000



8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

4.31  
3.13  
2.10

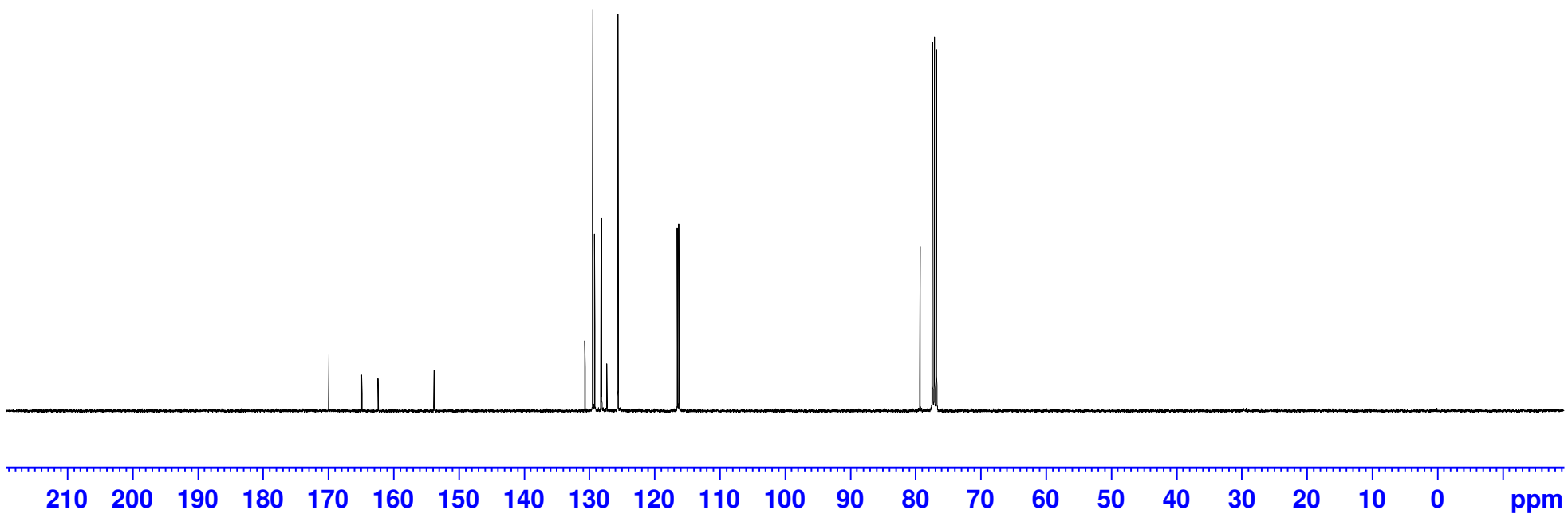
1.00

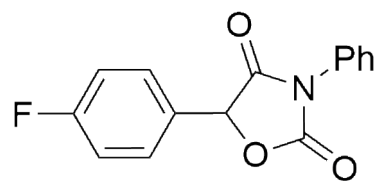


— 169.89  
— 164.83  
— 162.35  
— 153.76

130.64  
129.15  
128.18  
128.09  
127.31  
127.28  
125.58  
116.49  
116.27

79.28  
77.39  
77.08  
76.76





**2u**

— -110.70



0

-20

-40

-60

-80

-100

-120

-140

-160

-180

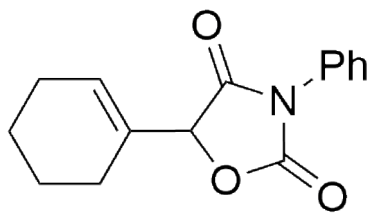
-200

ppm

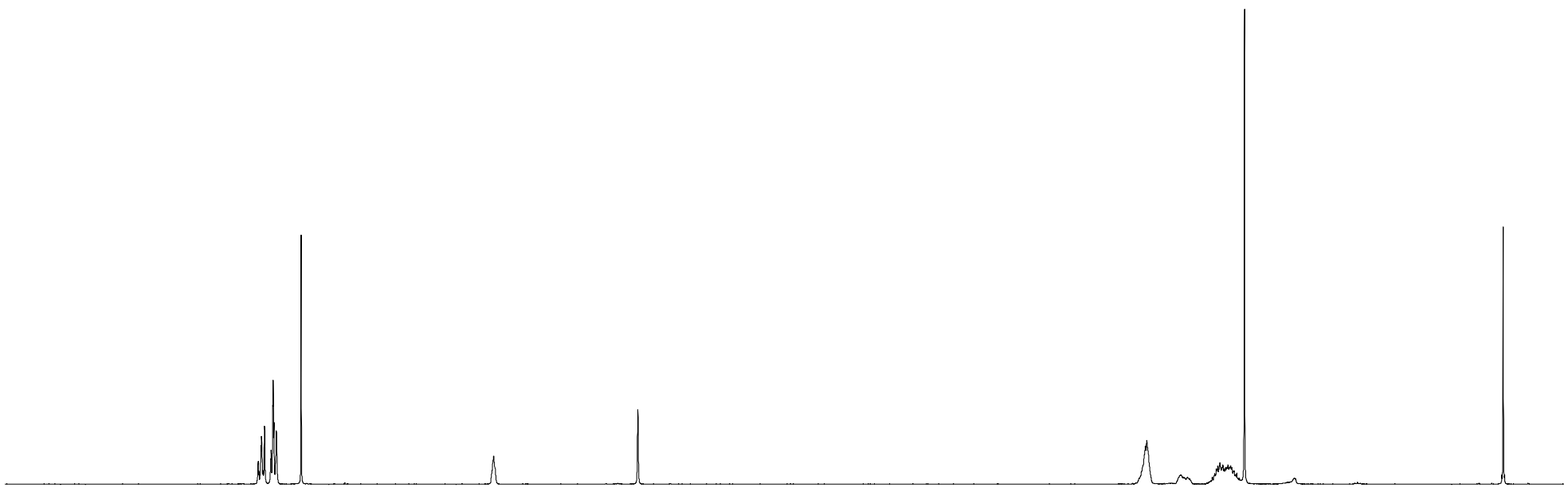
7.5216  
7.5170  
7.5051  
7.5020  
7.4920  
7.4841  
7.4826  
7.4451  
7.4430  
7.4332  
7.4311  
7.4257  
7.4164  
7.4123  
7.4096  
7.2621  
6.0988

5.2279

2.1625  
2.1534  
1.9537  
1.9488  
1.9444  
1.9381  
1.9305  
1.9250  
1.9197  
1.9078  
1.8942  
1.7564  
1.7430  
1.7330  
1.7250  
1.7116  
1.7004  
1.6937  
1.6866  
1.6767  
1.6698  
1.6627  
1.6557  
1.6515  
1.6476  
1.6393  
1.6296  
1.6247



2v



8.5

8.0

7.5

7.0

6.5

6.0

5.5

5.0

4.5

4.0

3.5

3.0

2.5

2.0

1.5

1.0

0.5

ppm

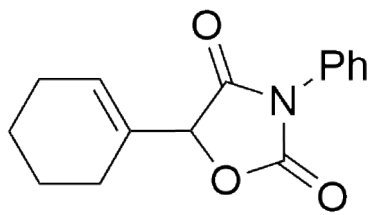
1.97  
2.90

1.00

0.98

3.09  
1.04  
4.20

4.20



2v

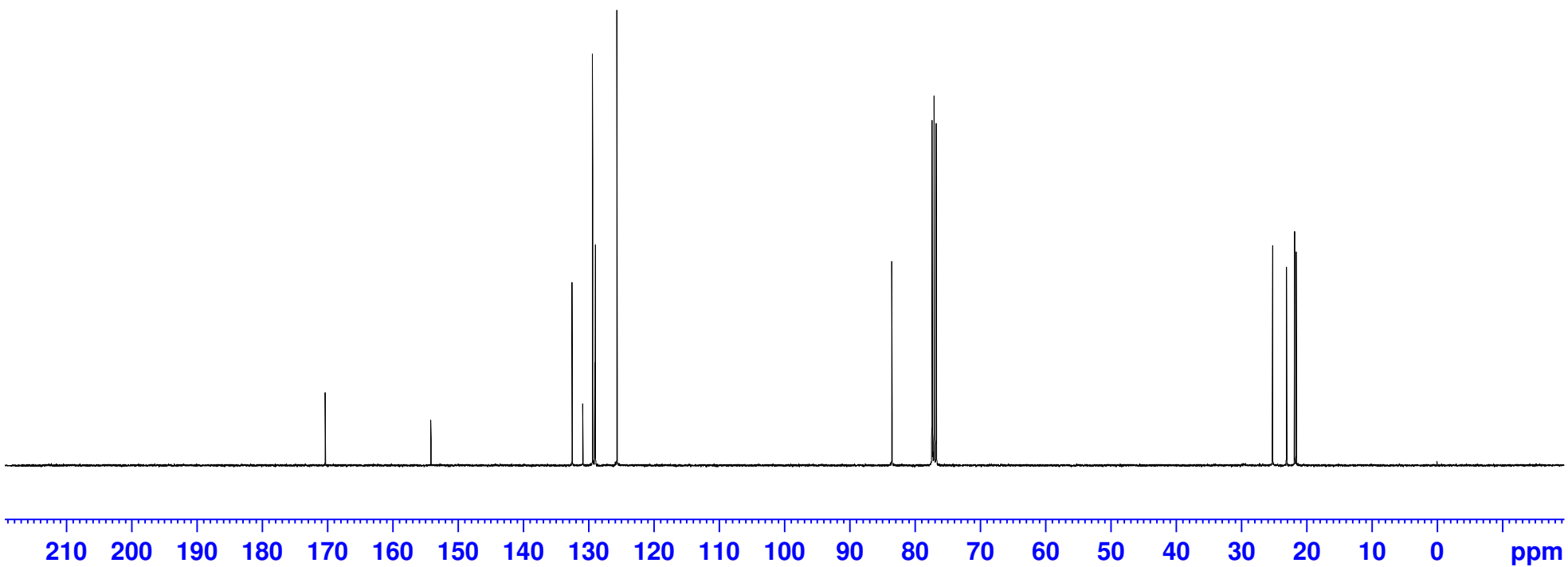
— 170.35

— 154.14

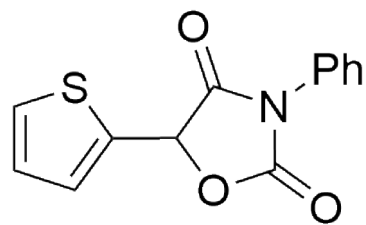
132.52  
130.88  
129.37  
129.05  
128.96  
125.63

83.52  
77.38  
77.06  
76.74

25.21  
23.07  
21.84  
21.59



7.5311  
7.5121  
7.4933  
7.4710  
7.4659  
7.4604  
7.4470  
7.3114  
7.3026  
7.2557  
7.1062  
7.0969  
7.0939  
7.0845  
6.1297



2w



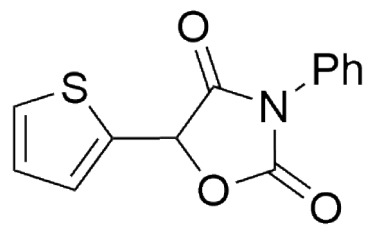
8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm

6.44  
1.05  
1.06  
1.00

1.5780

-0.0000





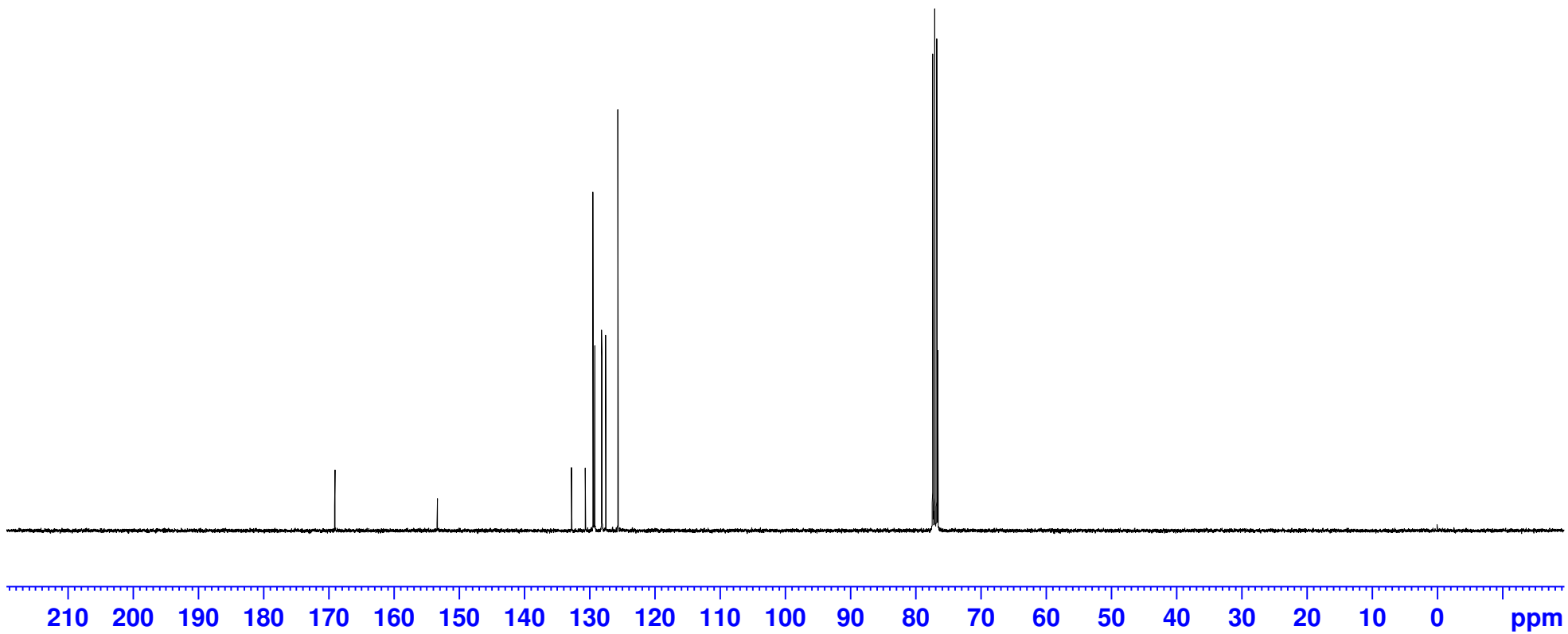
**2w**

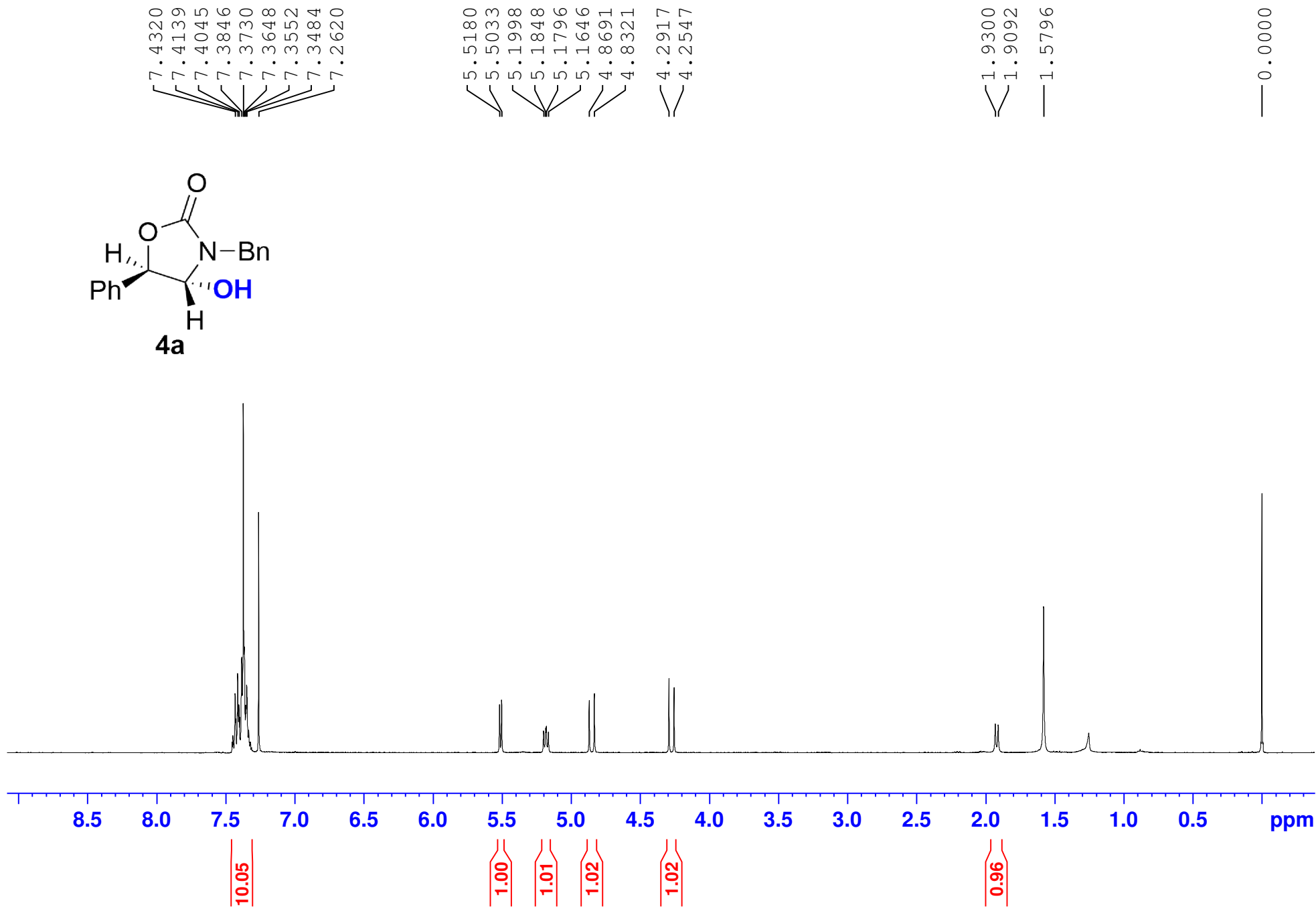
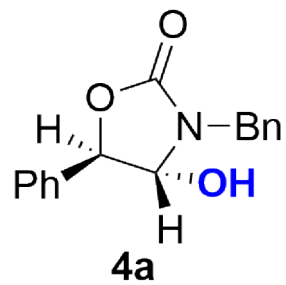
— 169.06

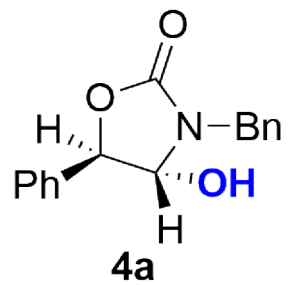
— 153.35

132.76  
130.66  
129.47  
129.19  
128.14  
128.09  
127.51  
125.64

< 77.37  
< 76.73





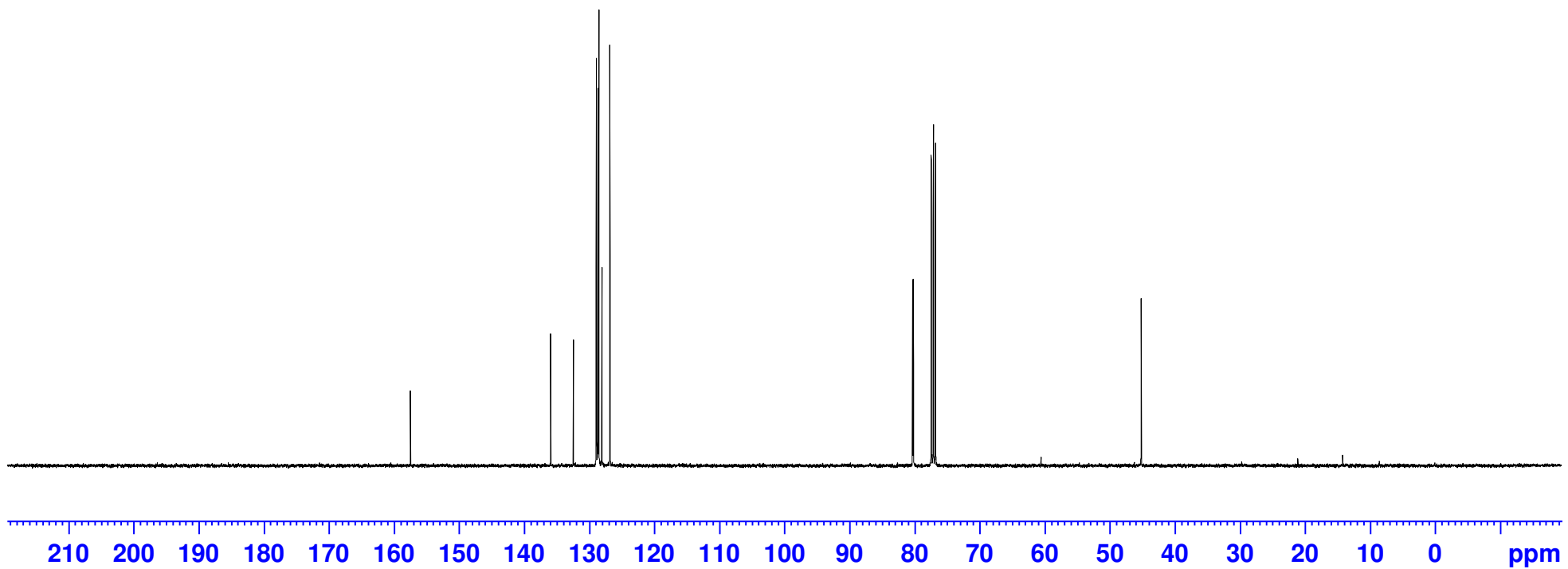


—157.48

135.94  
132.42  
128.94  
128.88  
128.66  
128.52  
128.05  
126.81

80.29  
80.17  
77.42  
77.10  
76.79

—45.15



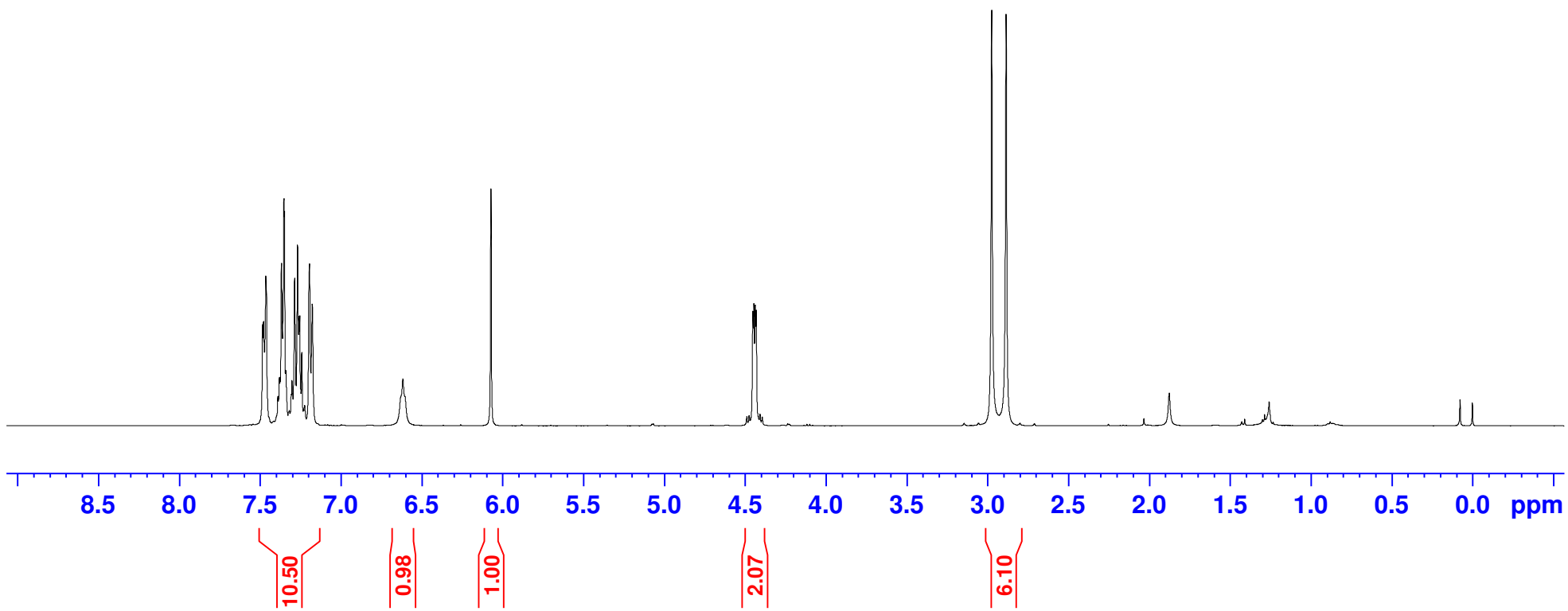
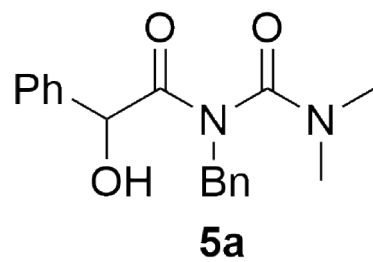
7.4827  
7.4773  
7.4632  
7.4596  
7.3792  
7.3748  
7.3664  
7.3512  
7.3483  
7.3396  
7.3016  
7.2851  
7.2669  
7.2575  
7.2534  
7.2407  
7.1925  
7.1760  
6.6155  
6.0706

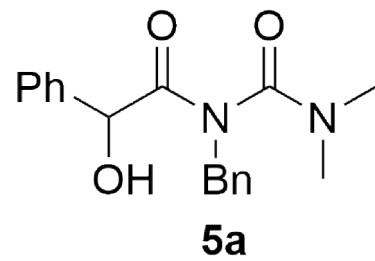
4.4505  
4.4443  
4.4361  
4.4301

2.9730  
2.8841

1.8752

0.0000





— 169.16

— 154.97

137.95

136.13

128.80

128.70

127.54

127.49

127.29

77.43

77.11

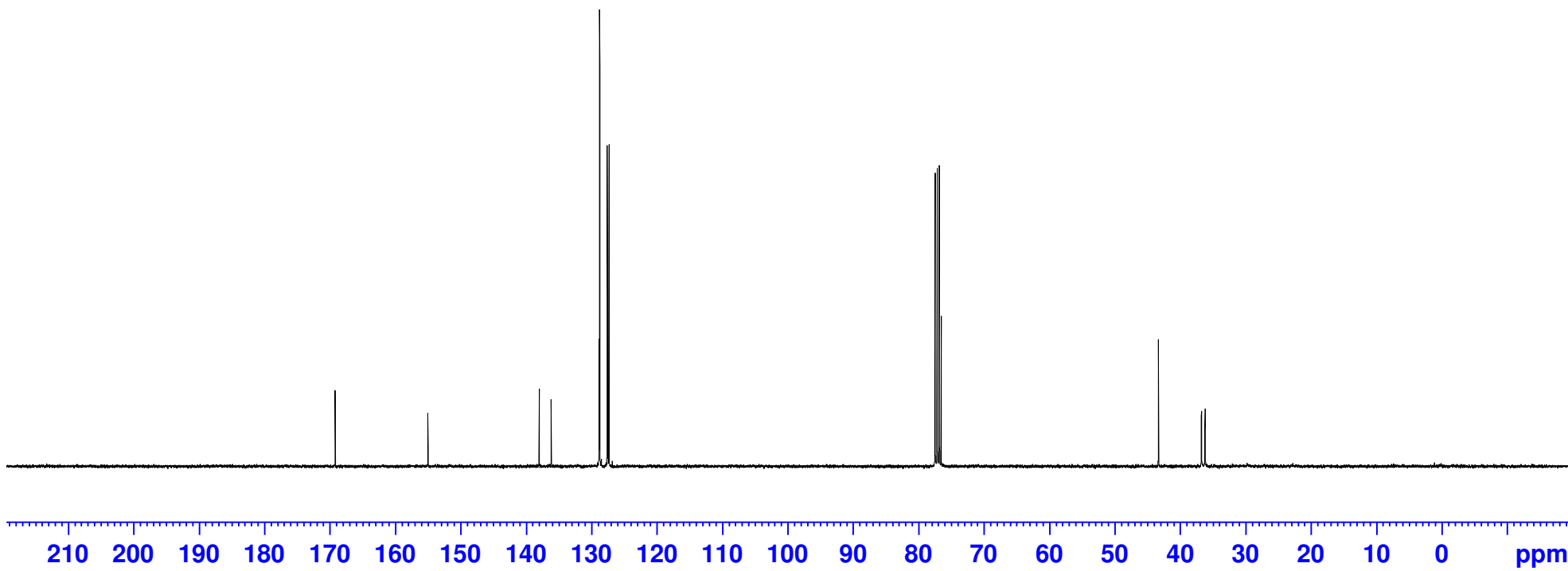
76.79

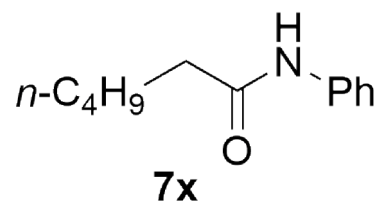
76.48

— 43.28

36.70

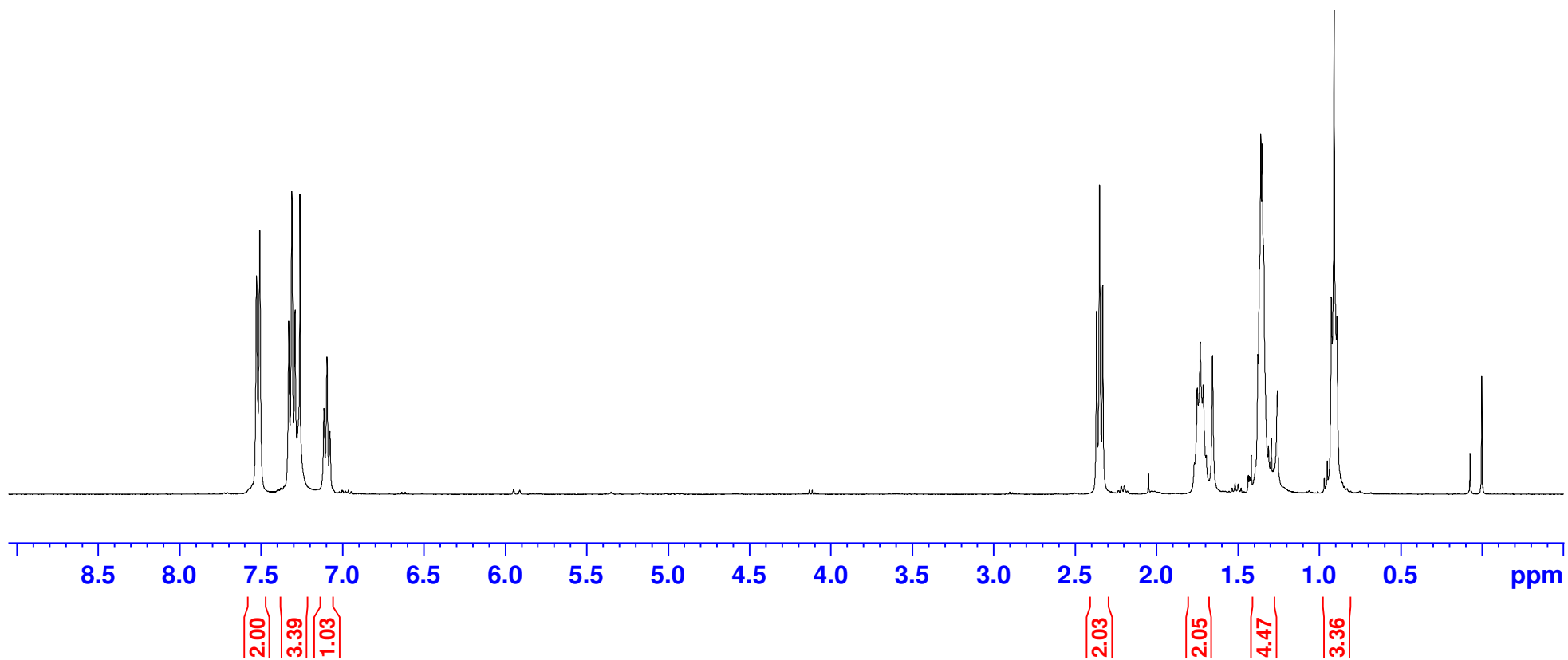
36.14

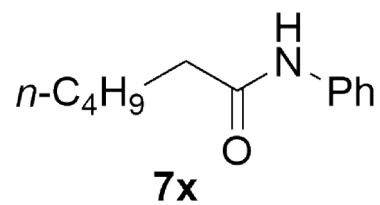




7.5272  
 7.5074  
 7.3299  
 7.3107  
 7.2905  
 7.2611  
 7.1131  
 7.0947  
 7.0762

2.3665  
 2.3478  
 2.3286  
 1.7479  
 1.7295  
 1.7109  
 1.6927  
 1.6541  
 1.3757  
 1.3573  
 1.3483  
 1.3396  
 1.3105  
 1.2925  
 1.2550  
 0.9240  
 0.9068  
 0.8892  
 0.0710  
 0.0000





— 171.79

— 138.07

— 128.94

— 124.15

— 119.93

77.40  
77.08  
76.76

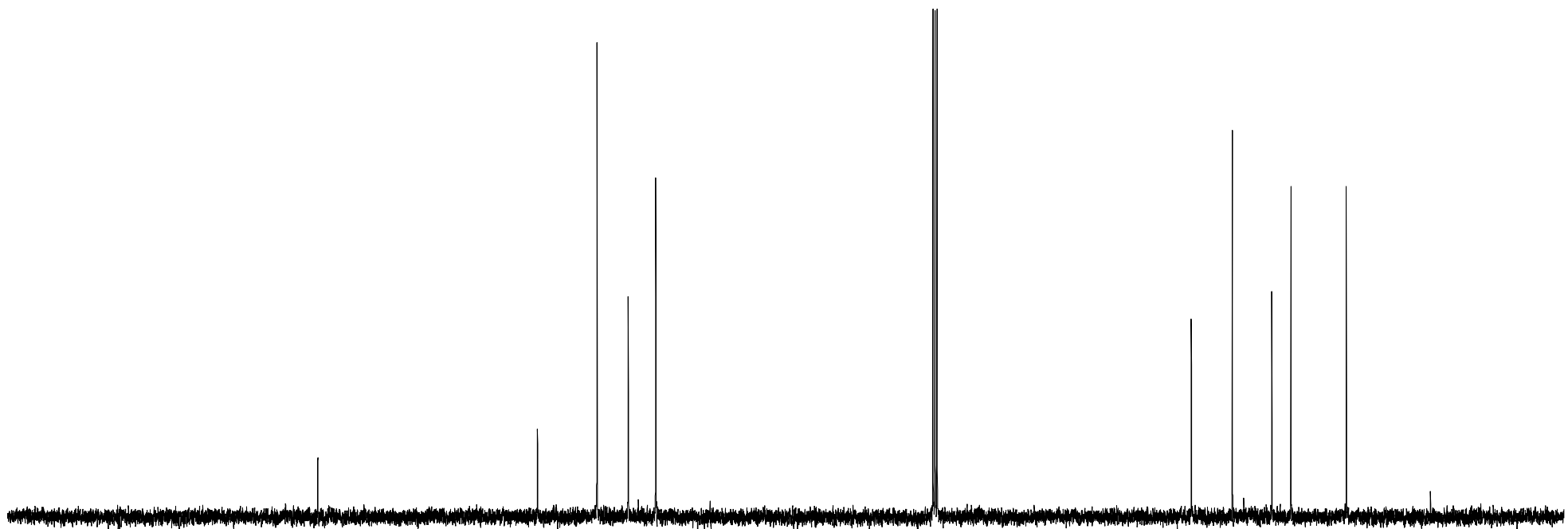
— 37.75

— 31.45

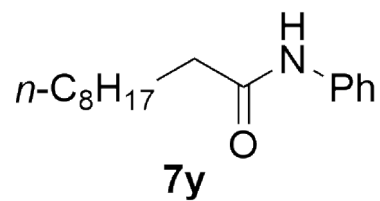
— 25.39

— 22.45

— 13.96



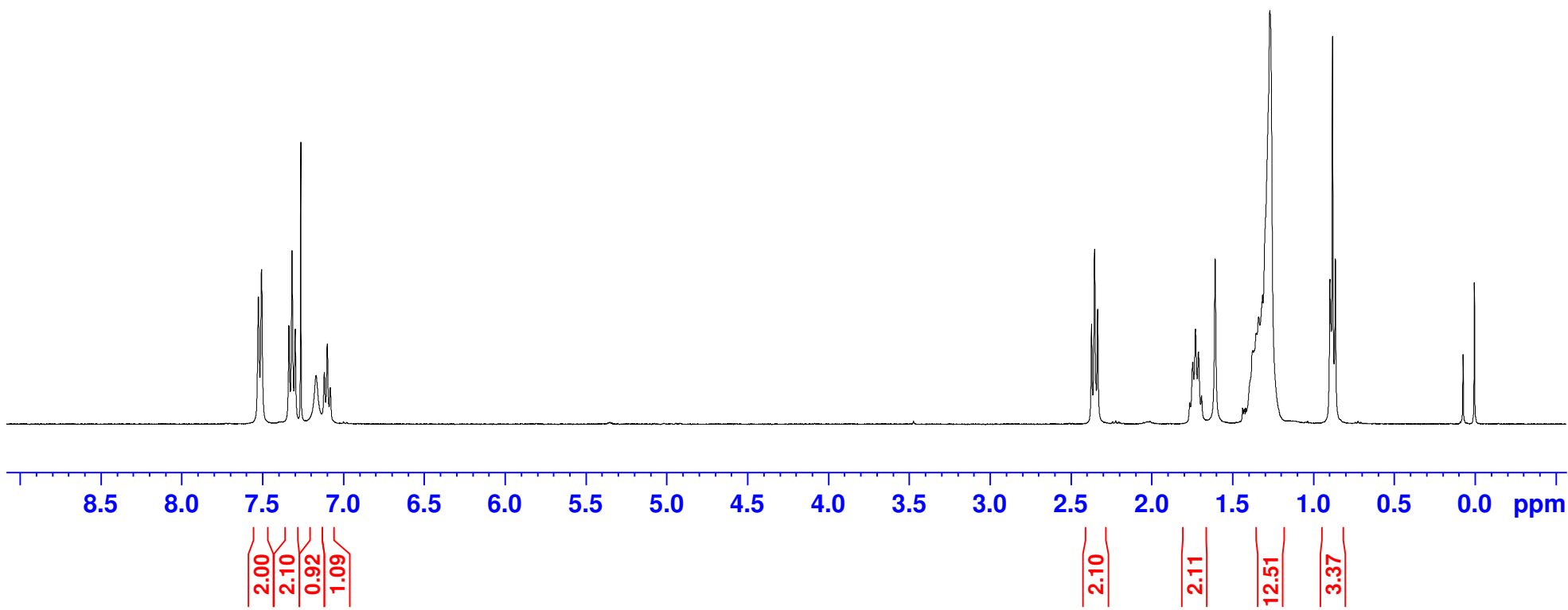
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm



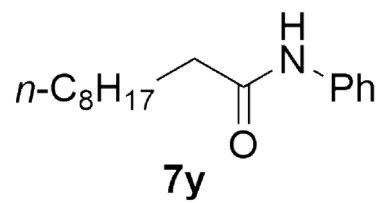
7.5240  
 7.5043  
 7.3351  
 7.3160  
 7.2958  
 7.2616  
 7.1677  
 7.1161  
 7.0975  
 7.0792

2.3688  
 2.3501  
 2.3310  
 1.7256  
 1.6042  
 1.3500  
 1.3355  
 1.3107  
 1.2655  
 0.8941  
 0.8776  
 0.8601

— 0.0000







— 171.45

— 137.98

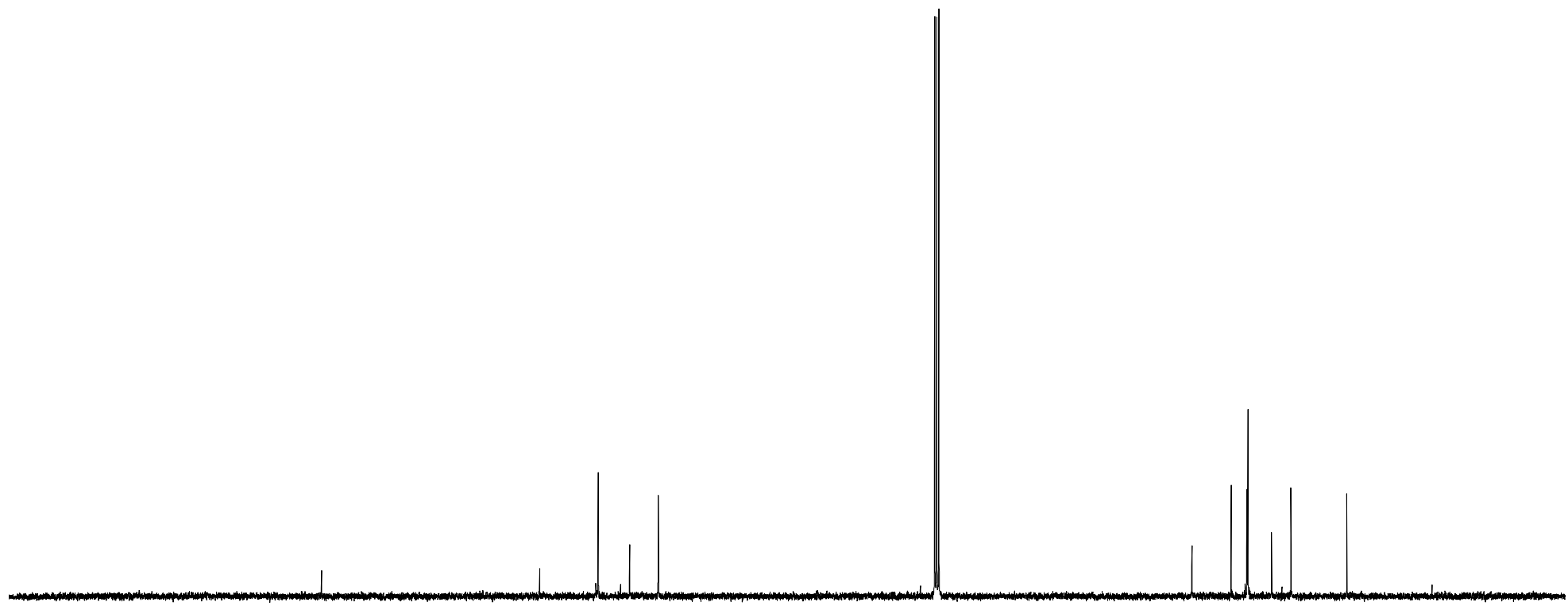
— 128.99

— 124.16

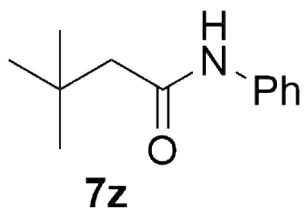
— 119.76

< 77.35  
< 76.72

< 37.88  
< 31.87  
< 29.46  
< 29.40  
< 29.29  
< 25.66  
< 22.68  
< 14.12

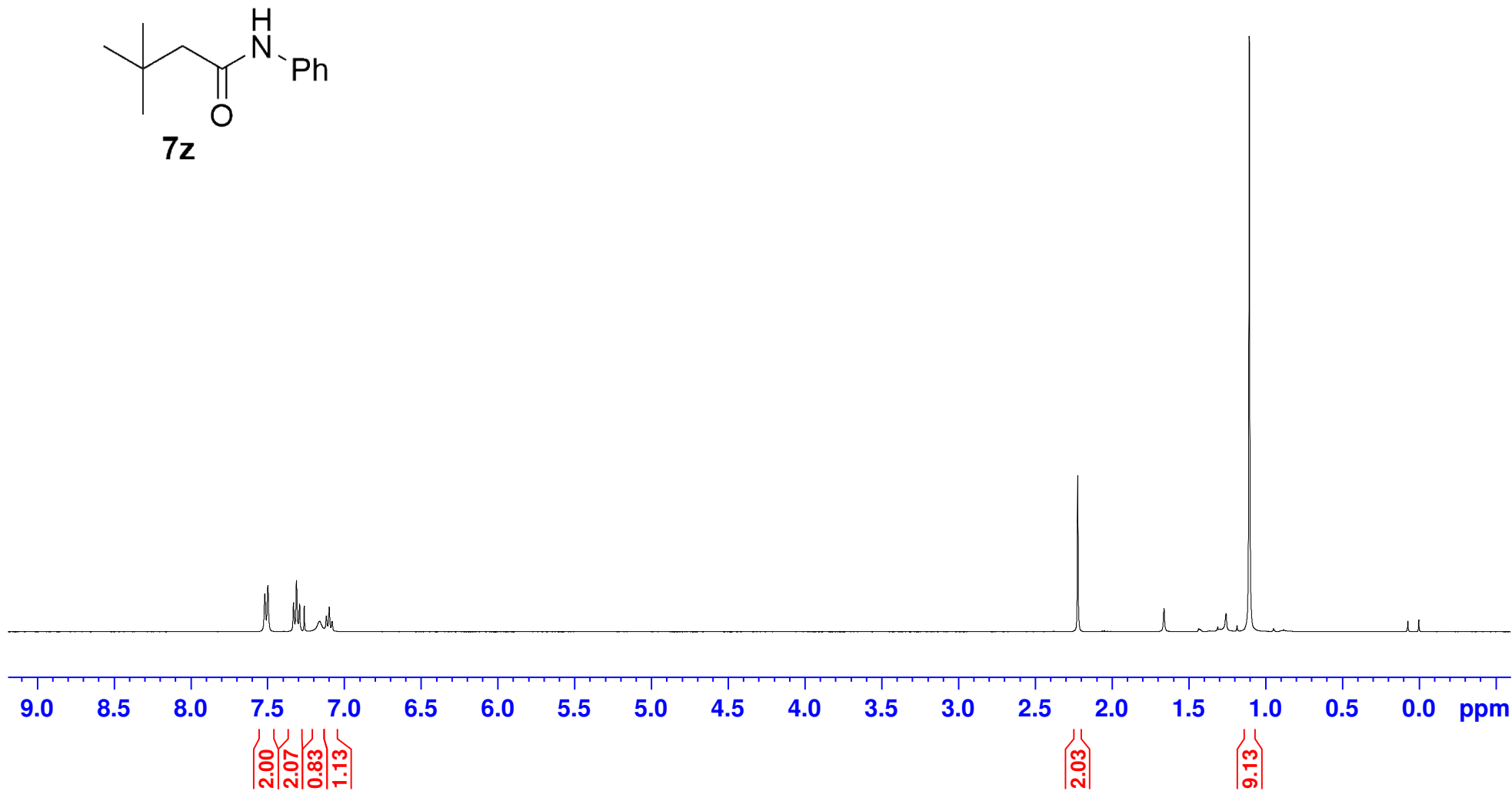


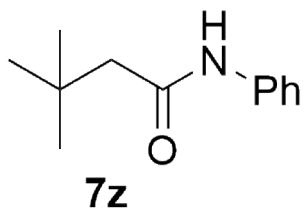
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm



7.5174  
7.4976  
7.3305  
7.3114  
7.2912  
7.2607  
7.1612  
7.1165  
7.0981  
7.0797

2.2218  
1.6602  
1.1043  
-0.0000





— 170.19

— 137.91

— 128.97

— 124.23

— 119.99

77.37

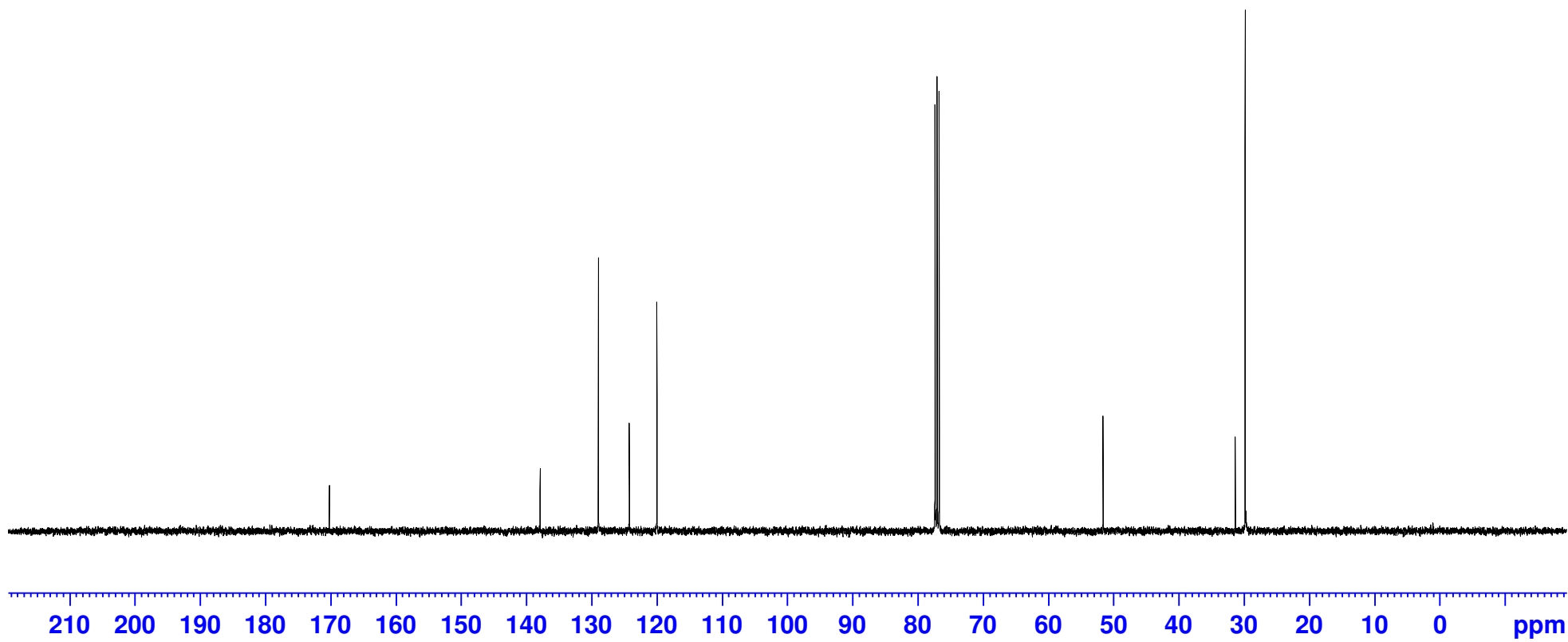
77.05

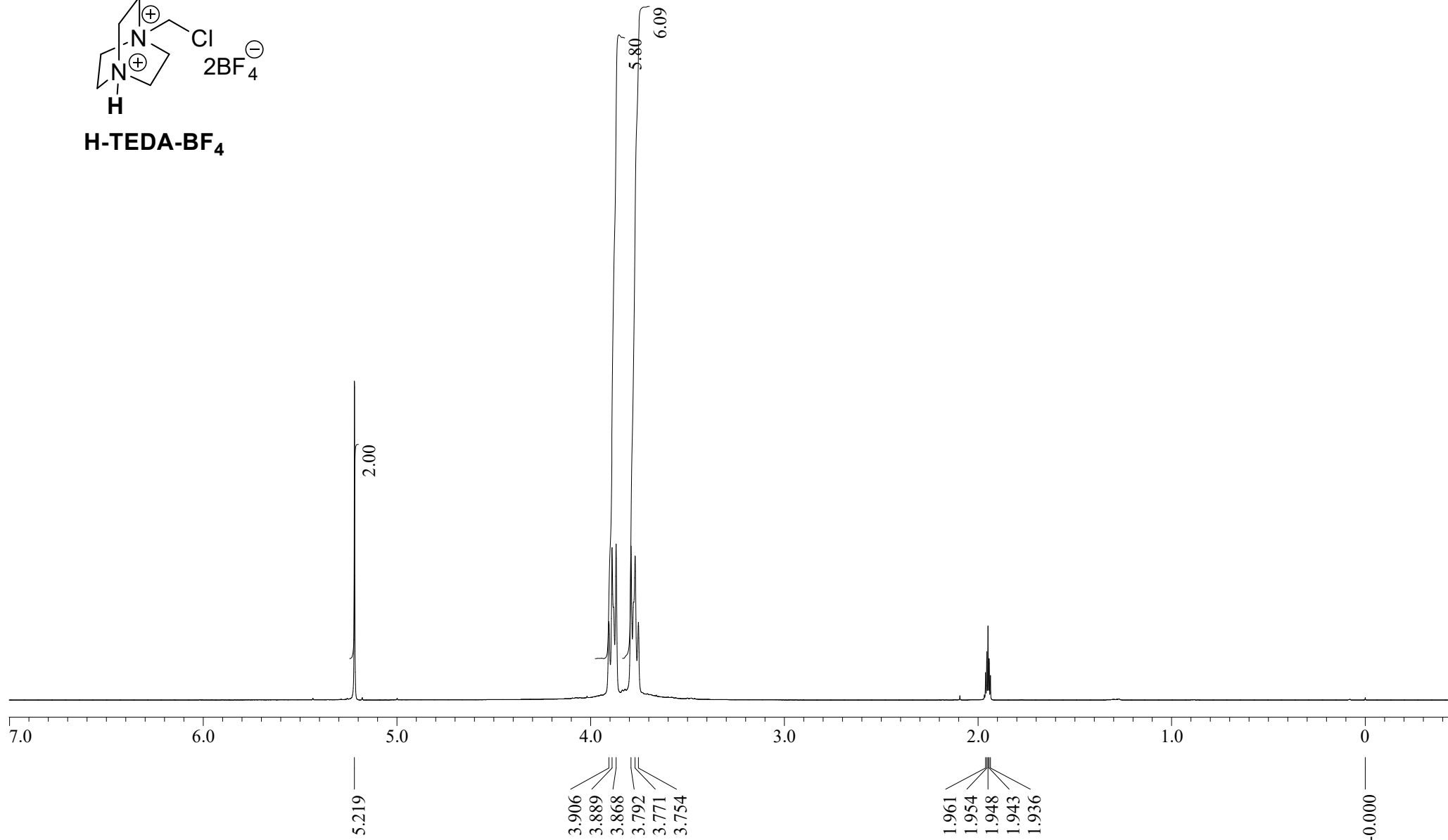
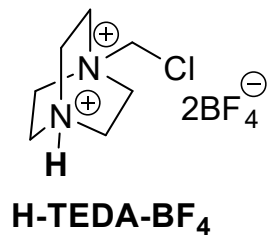
76.73

— 51.62

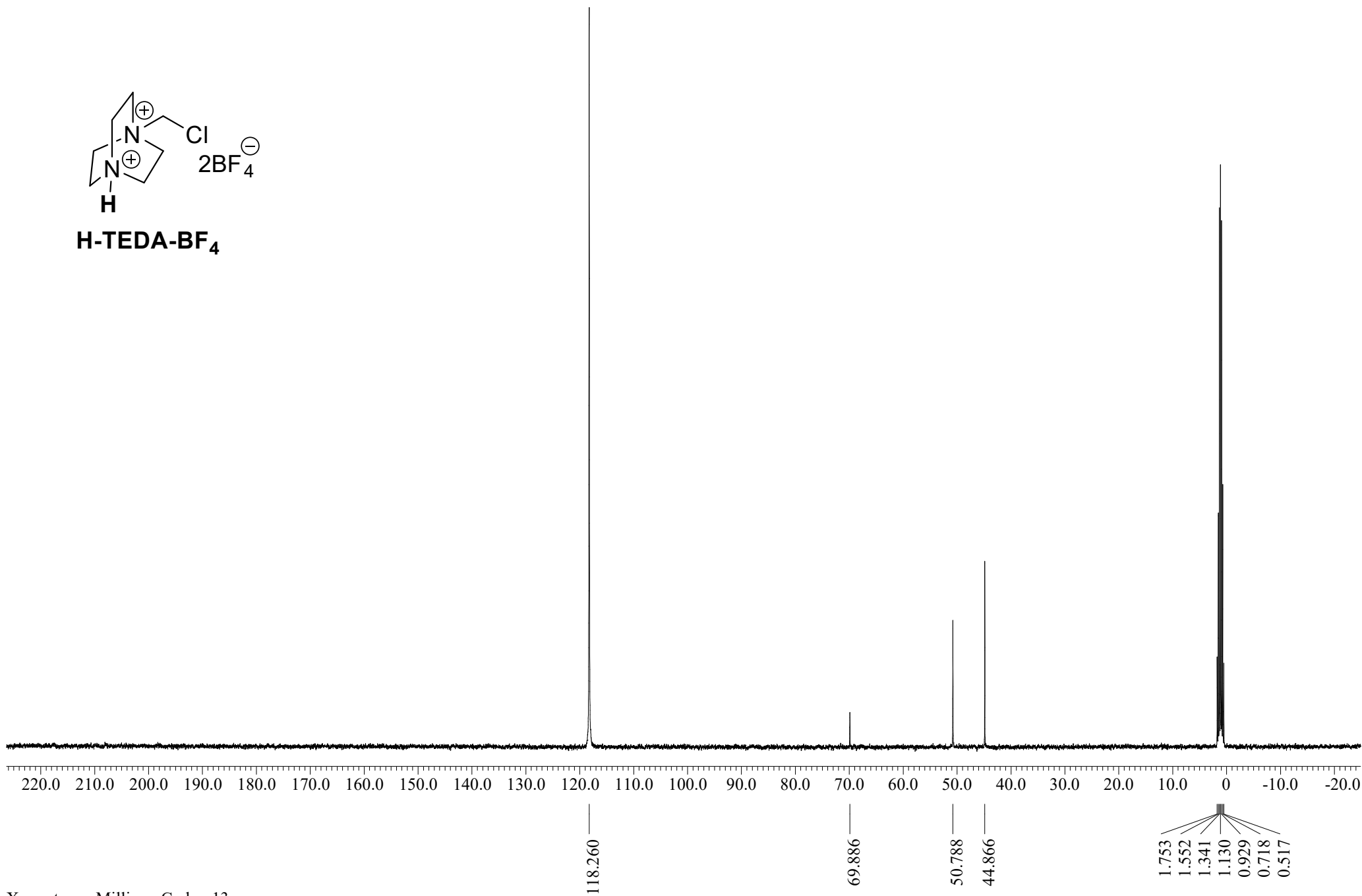
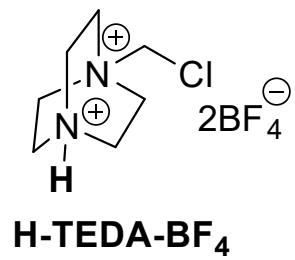
31.34

29.84

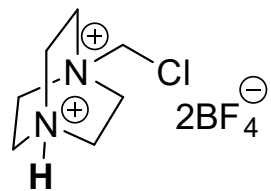




X : parts per Million : Proton



X : parts per Million : Carbon13



H-TEDA-BF<sub>4</sub>

