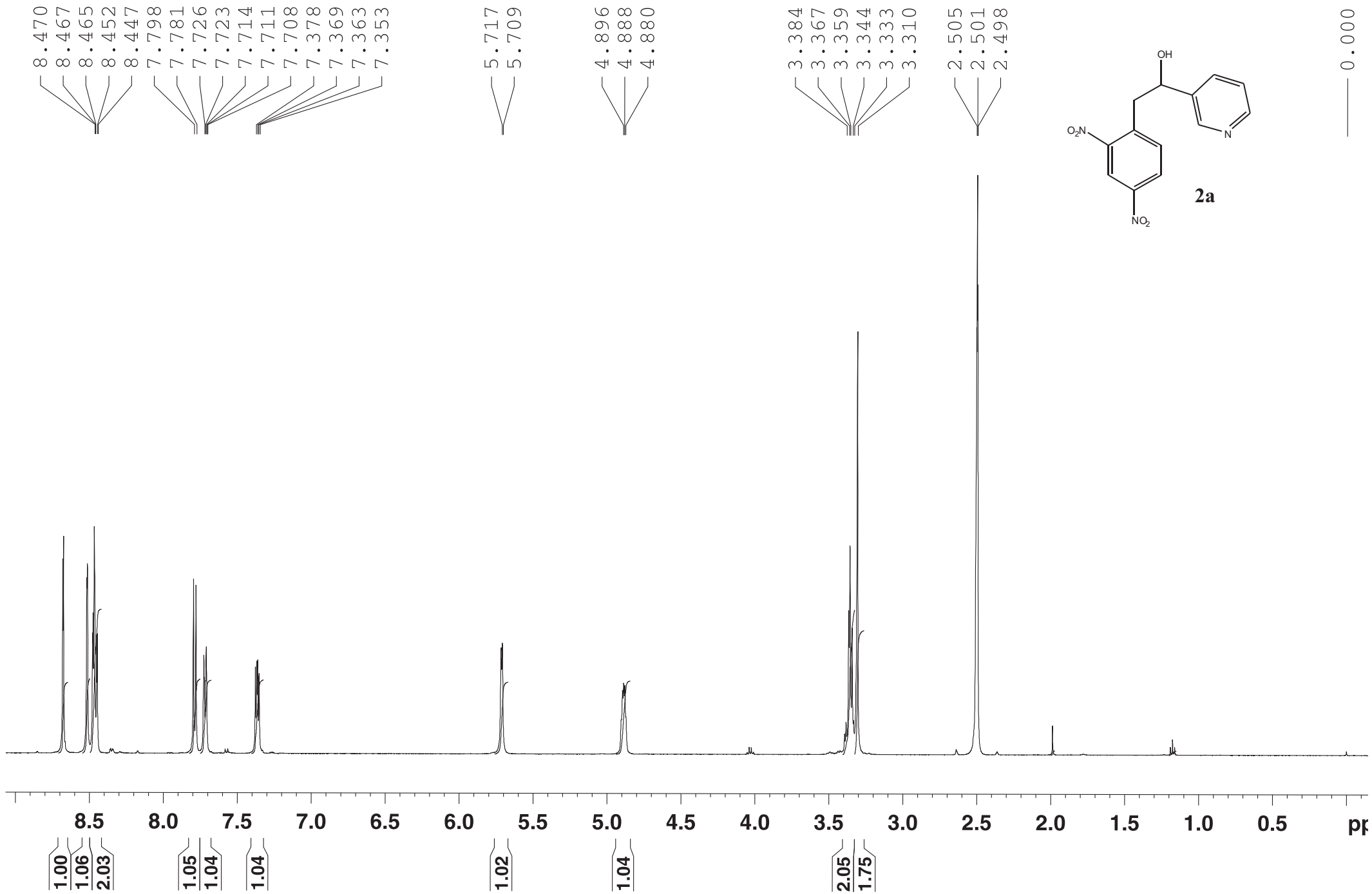
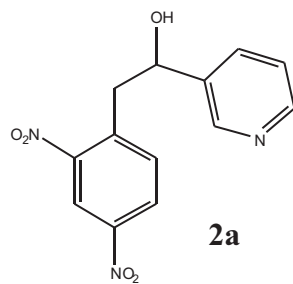


Copies of  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra

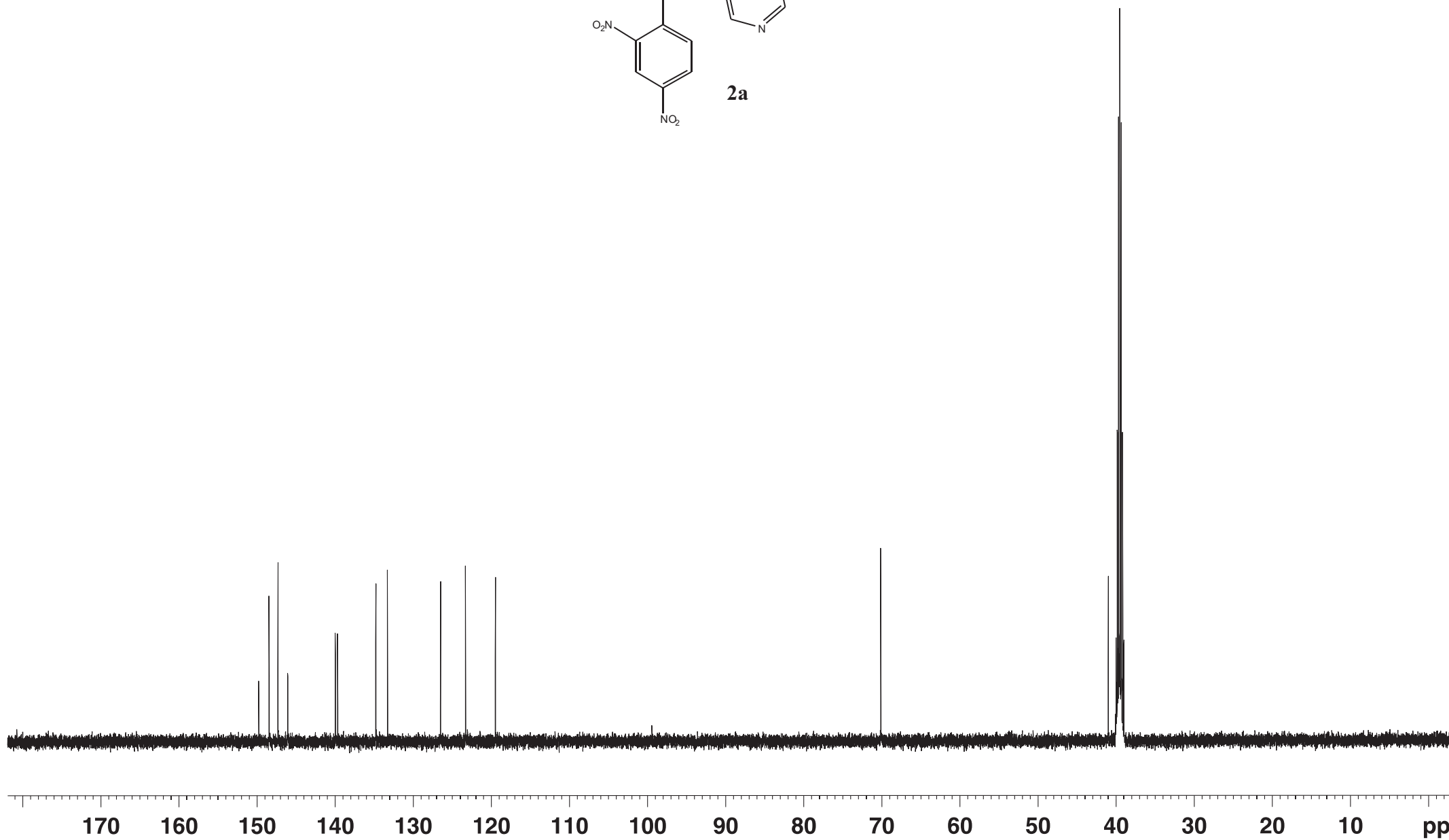


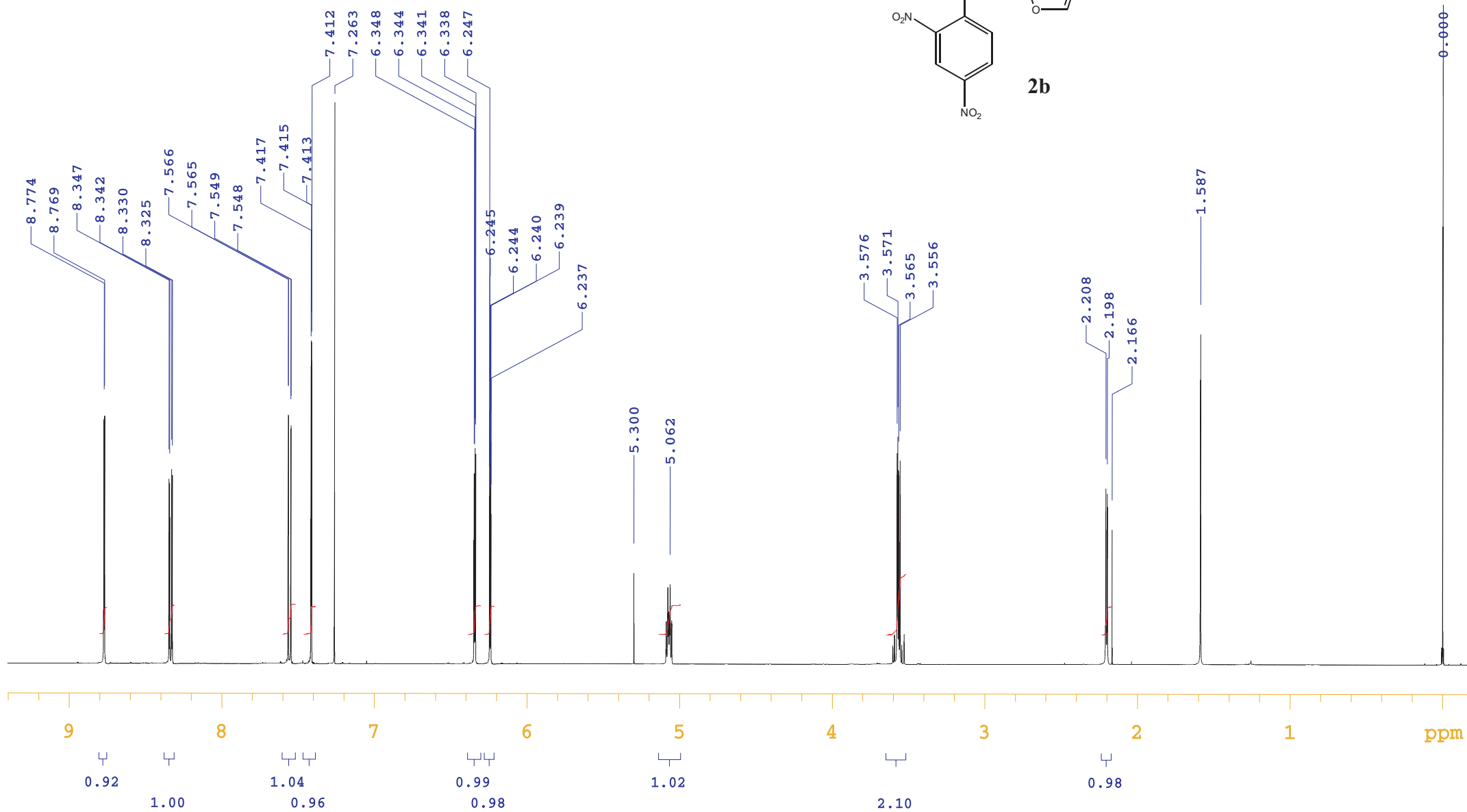
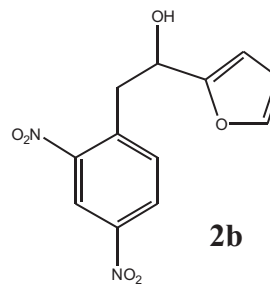
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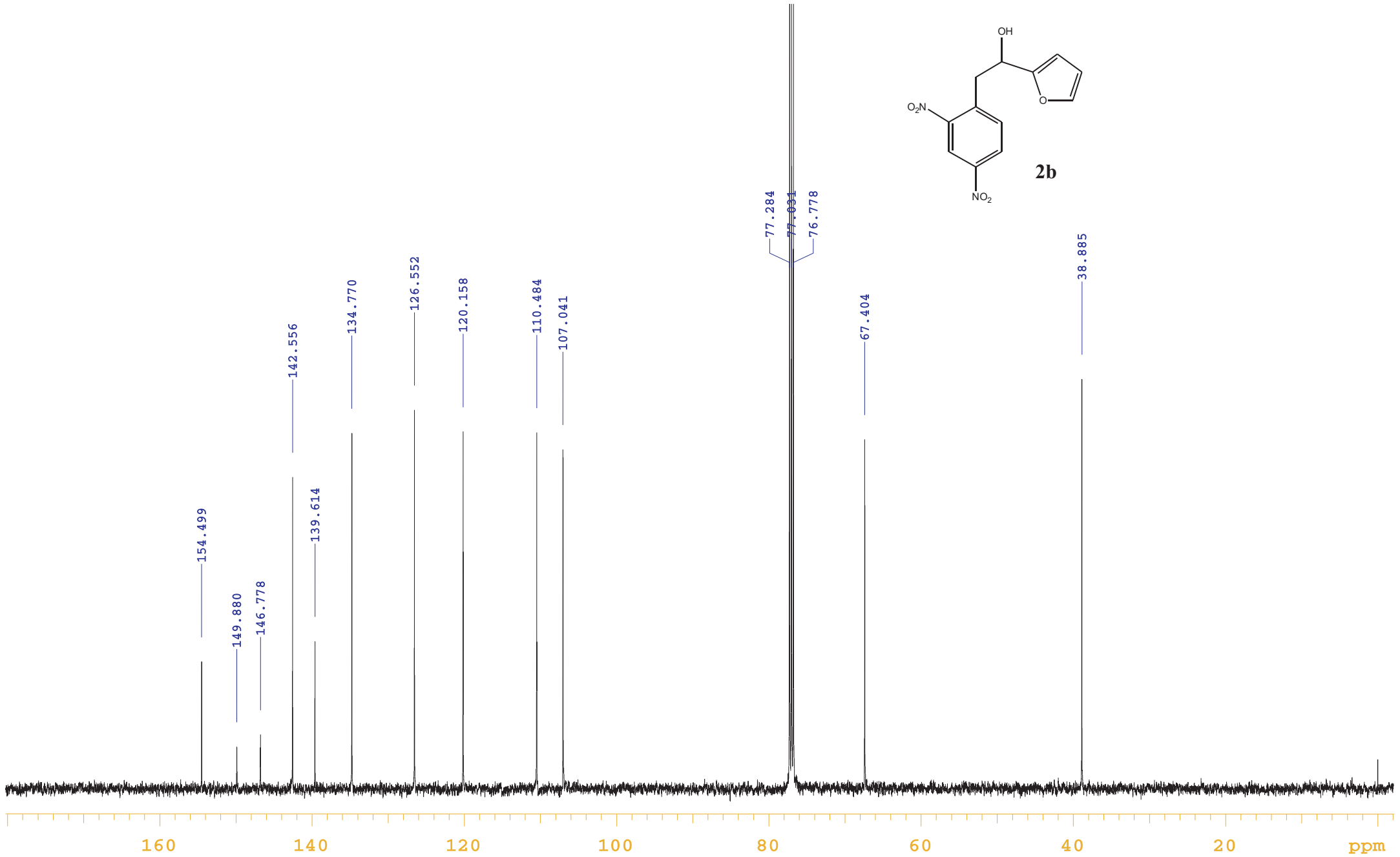
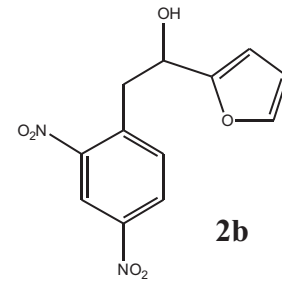


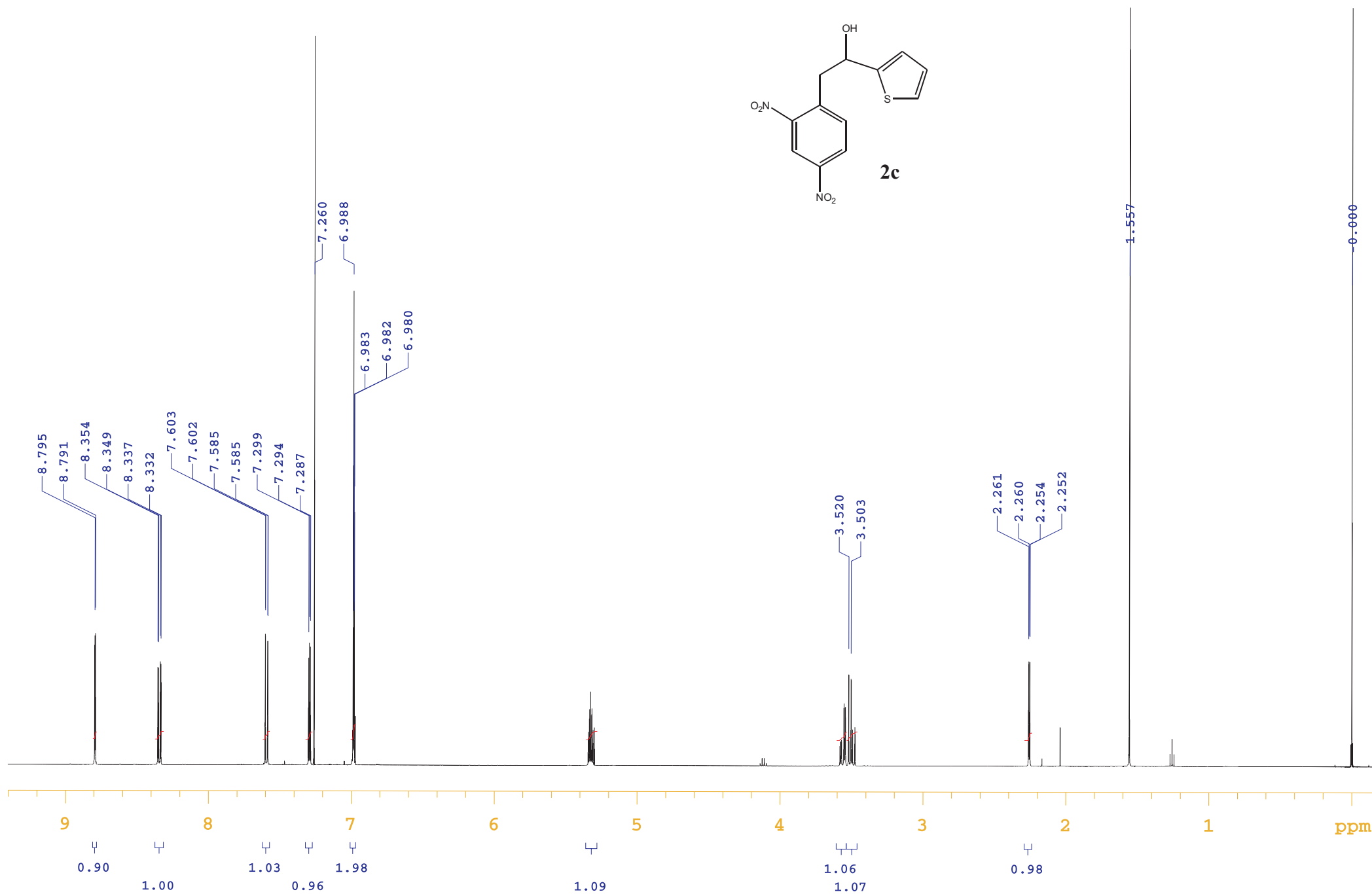
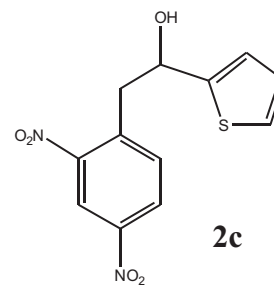
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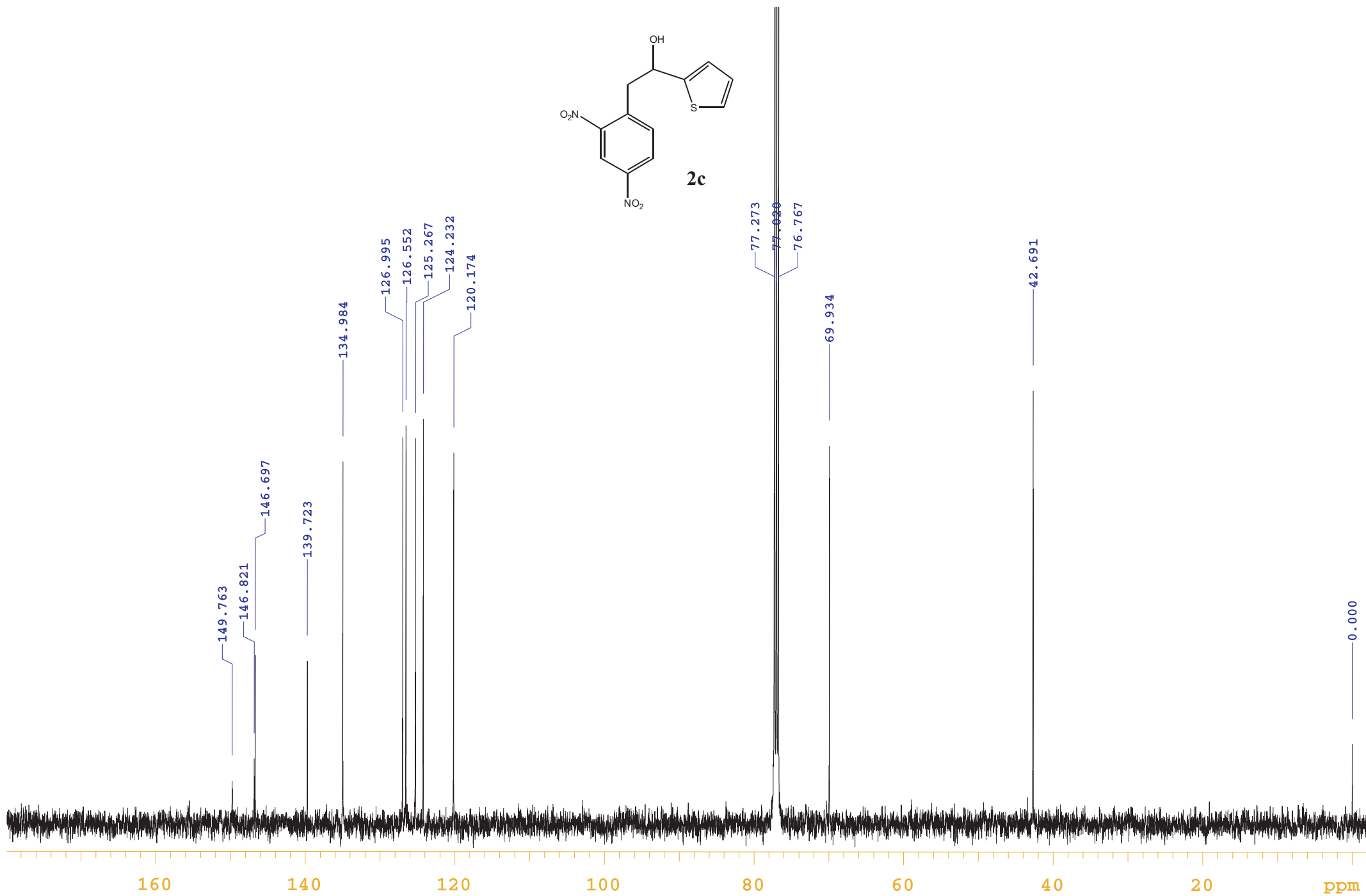
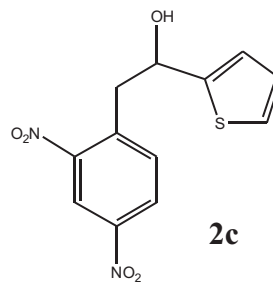
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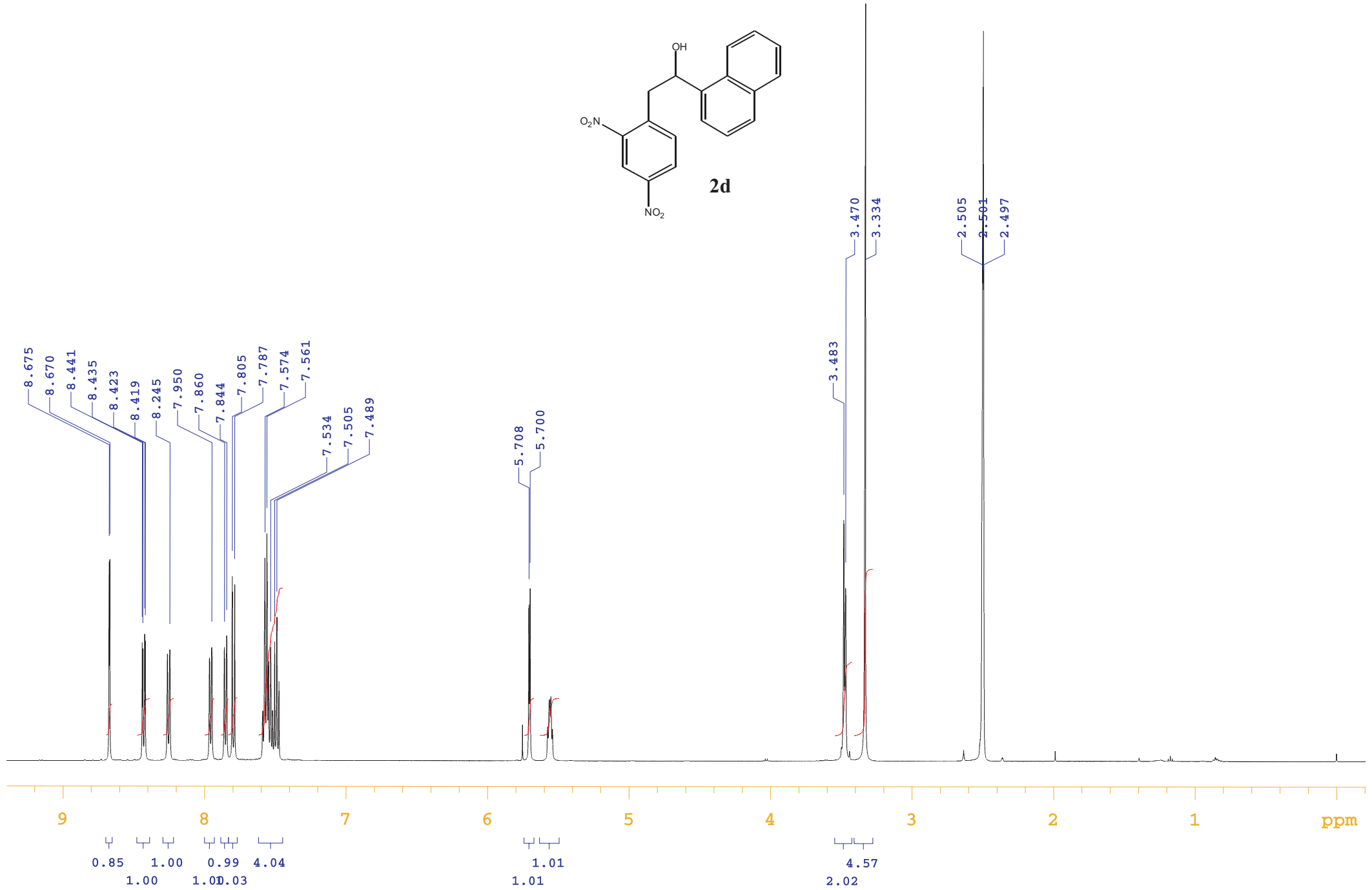
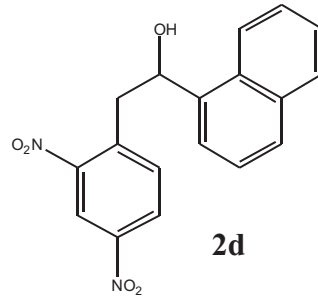




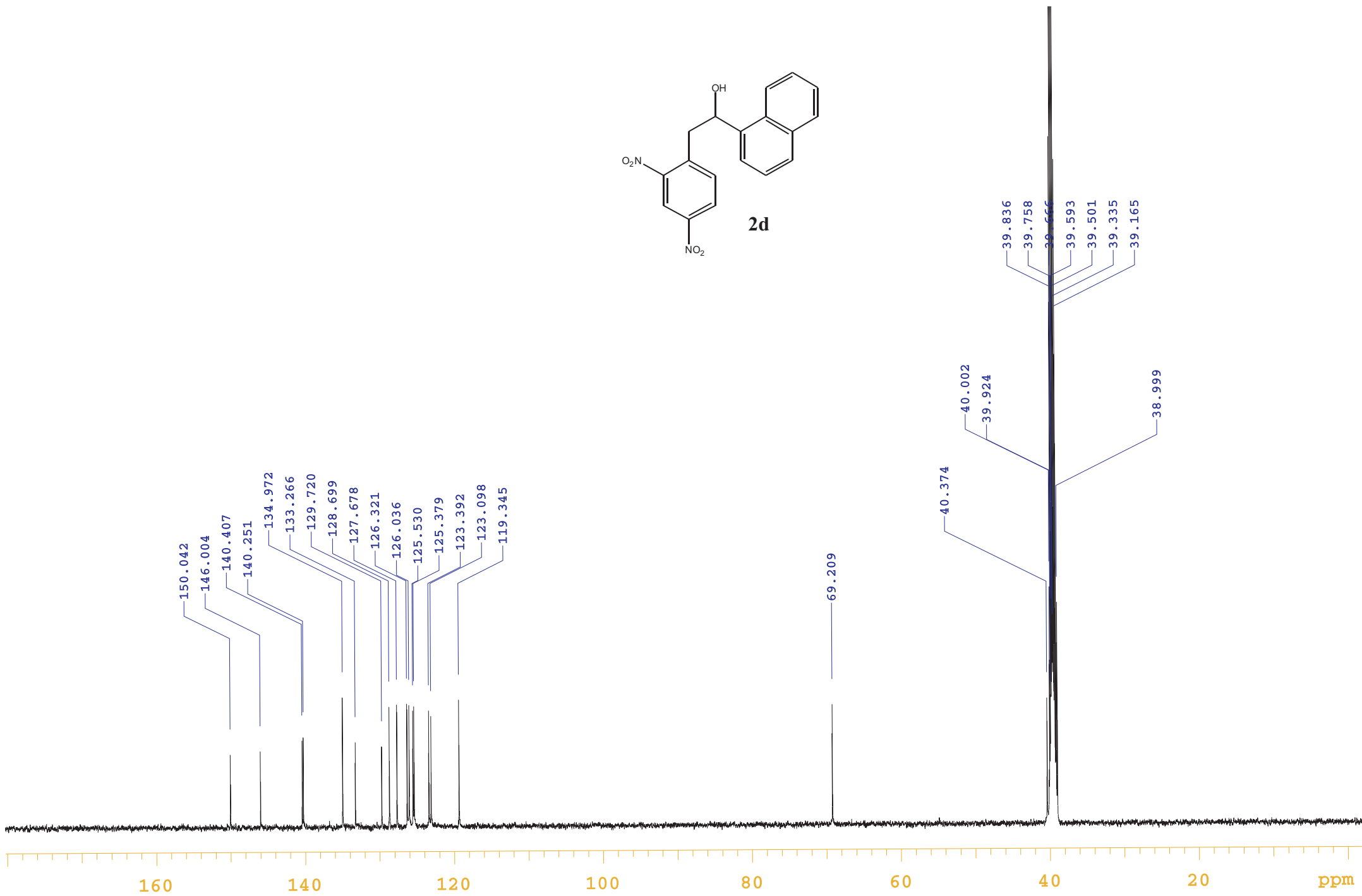
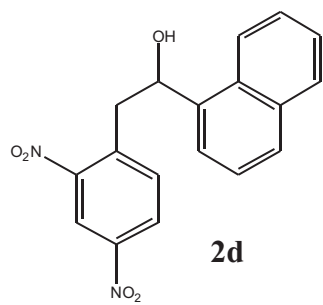


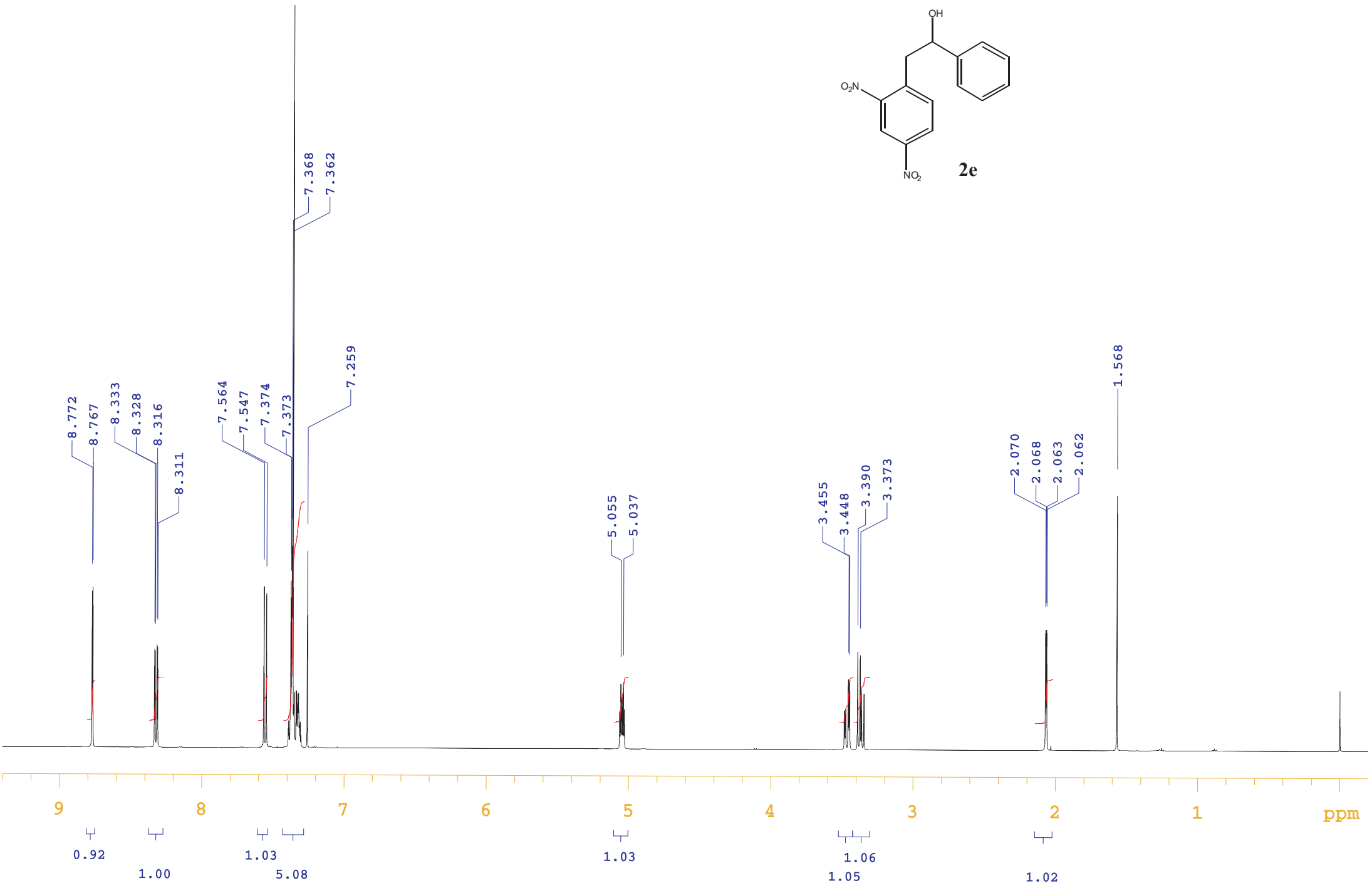
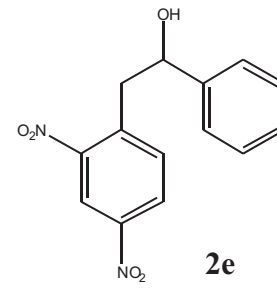


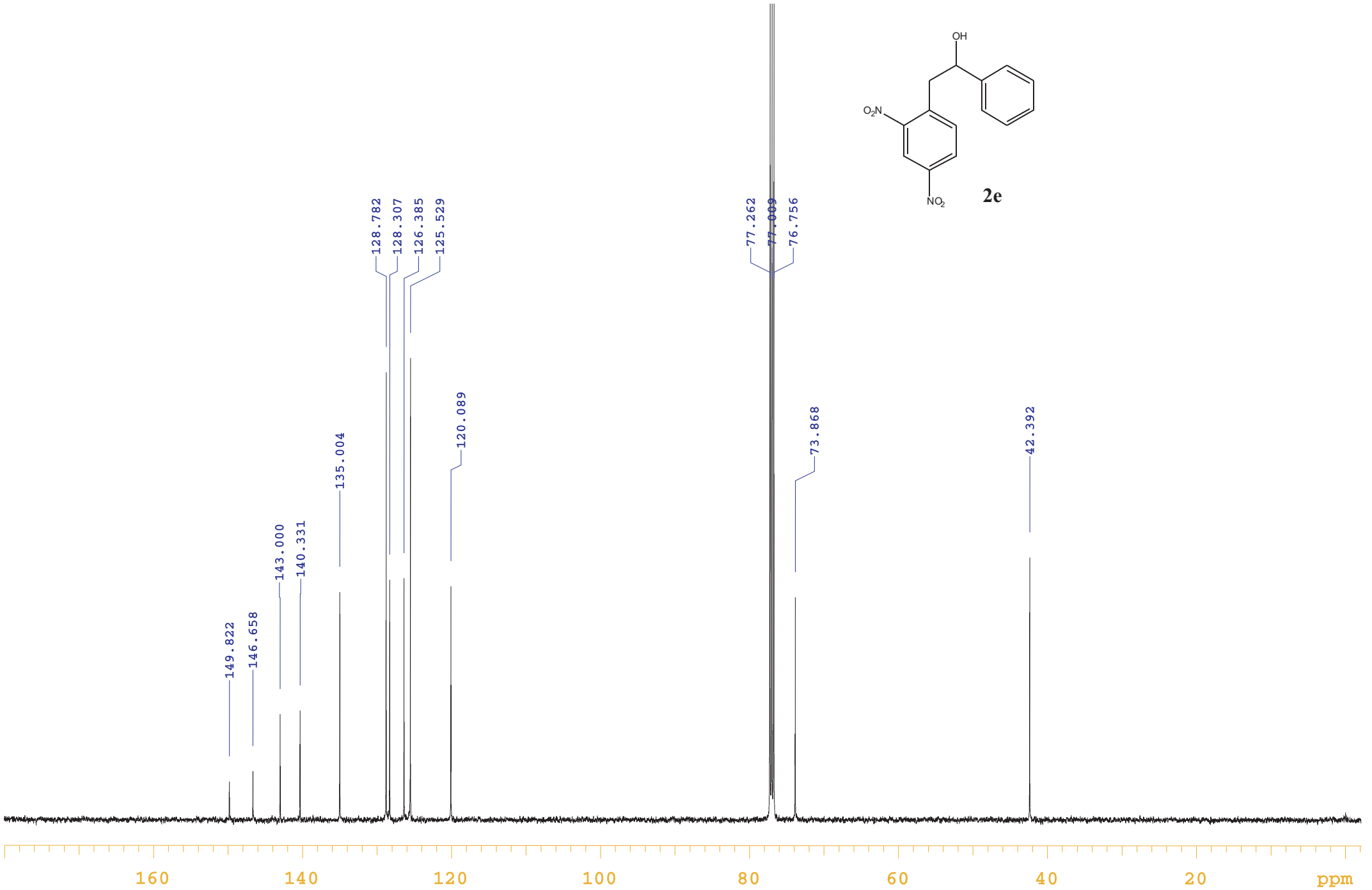
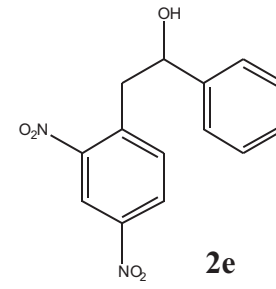


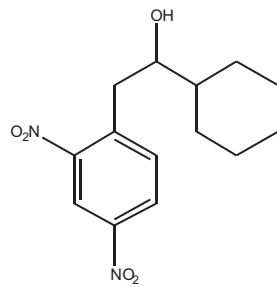




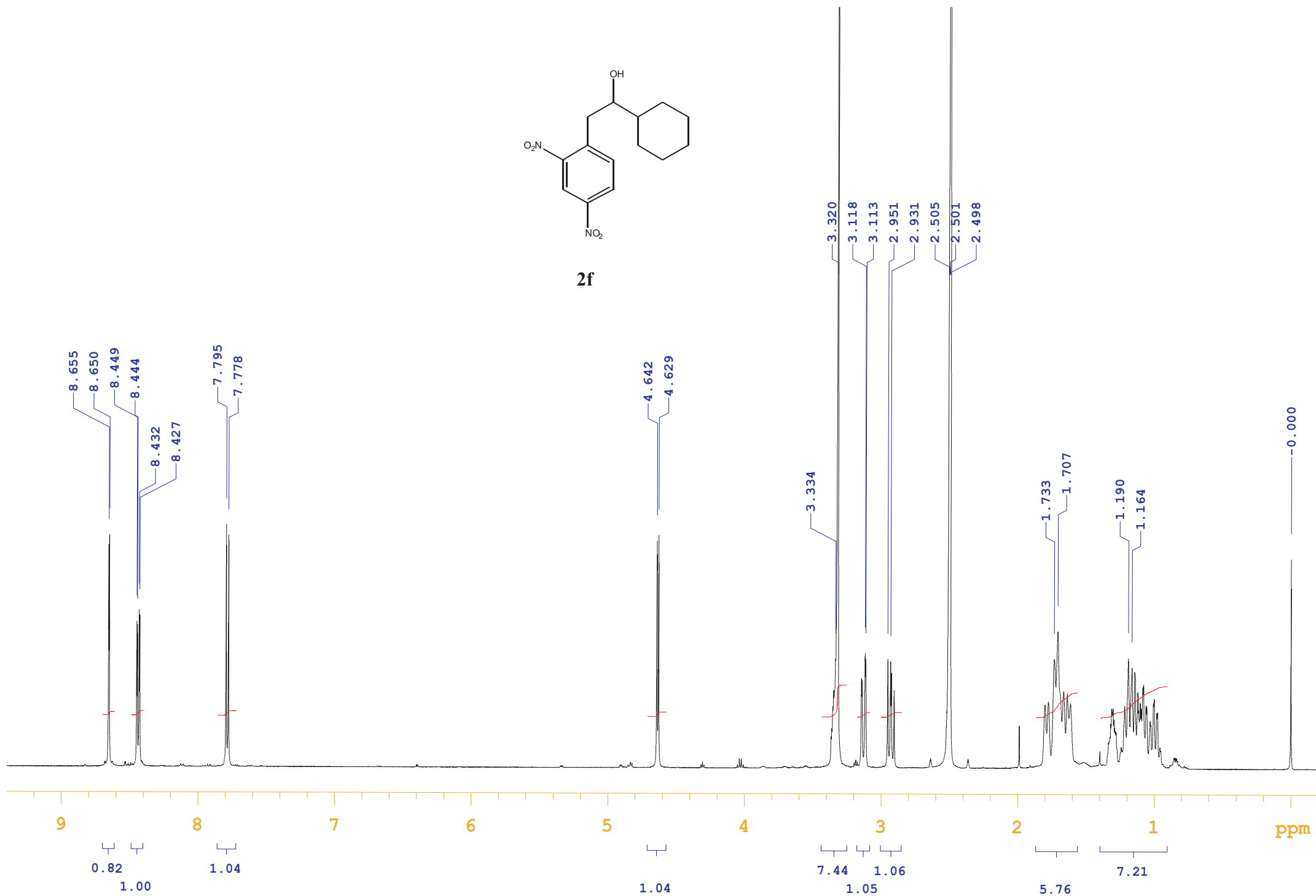


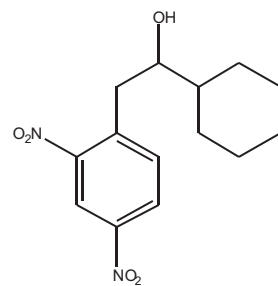




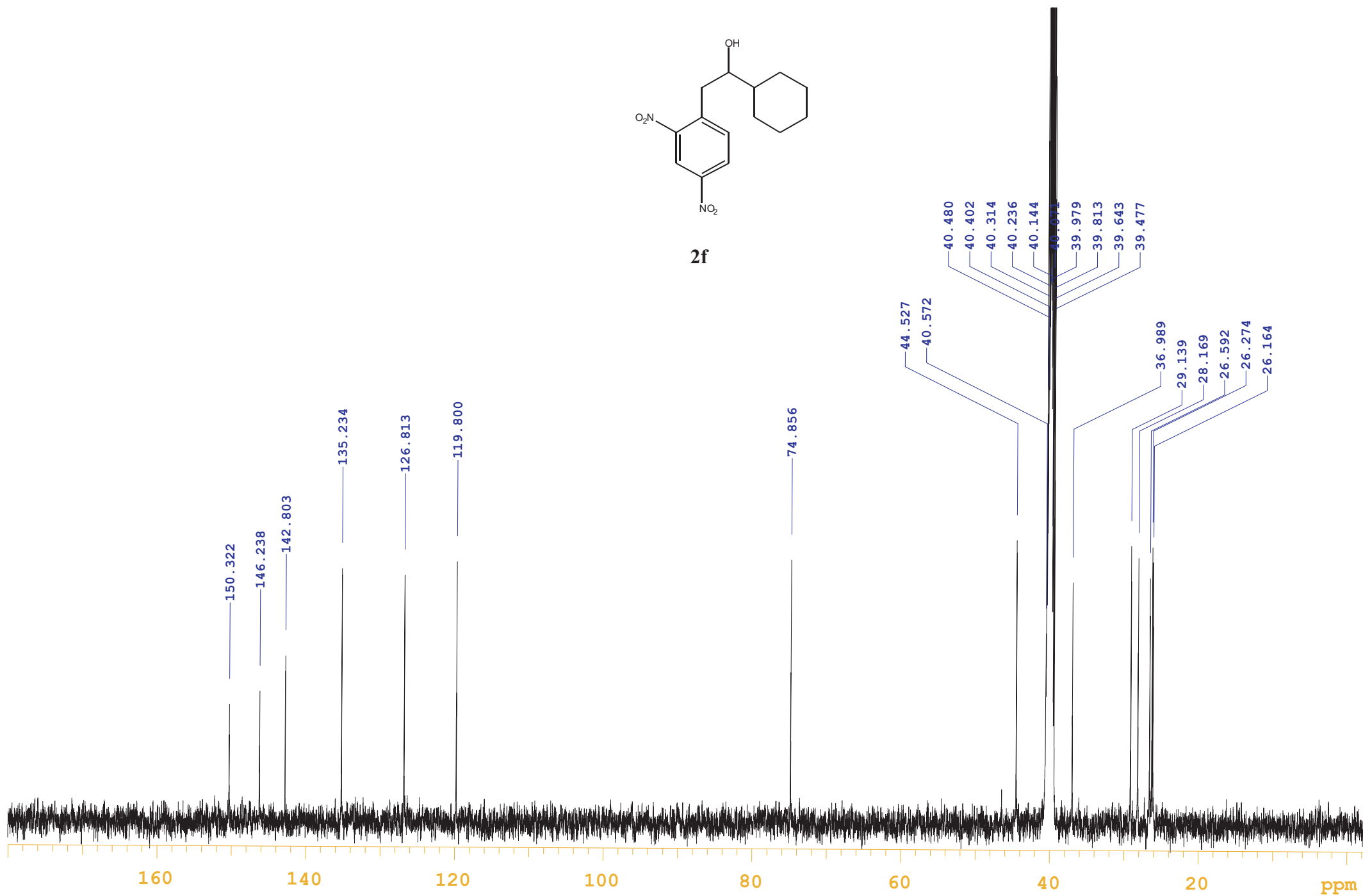


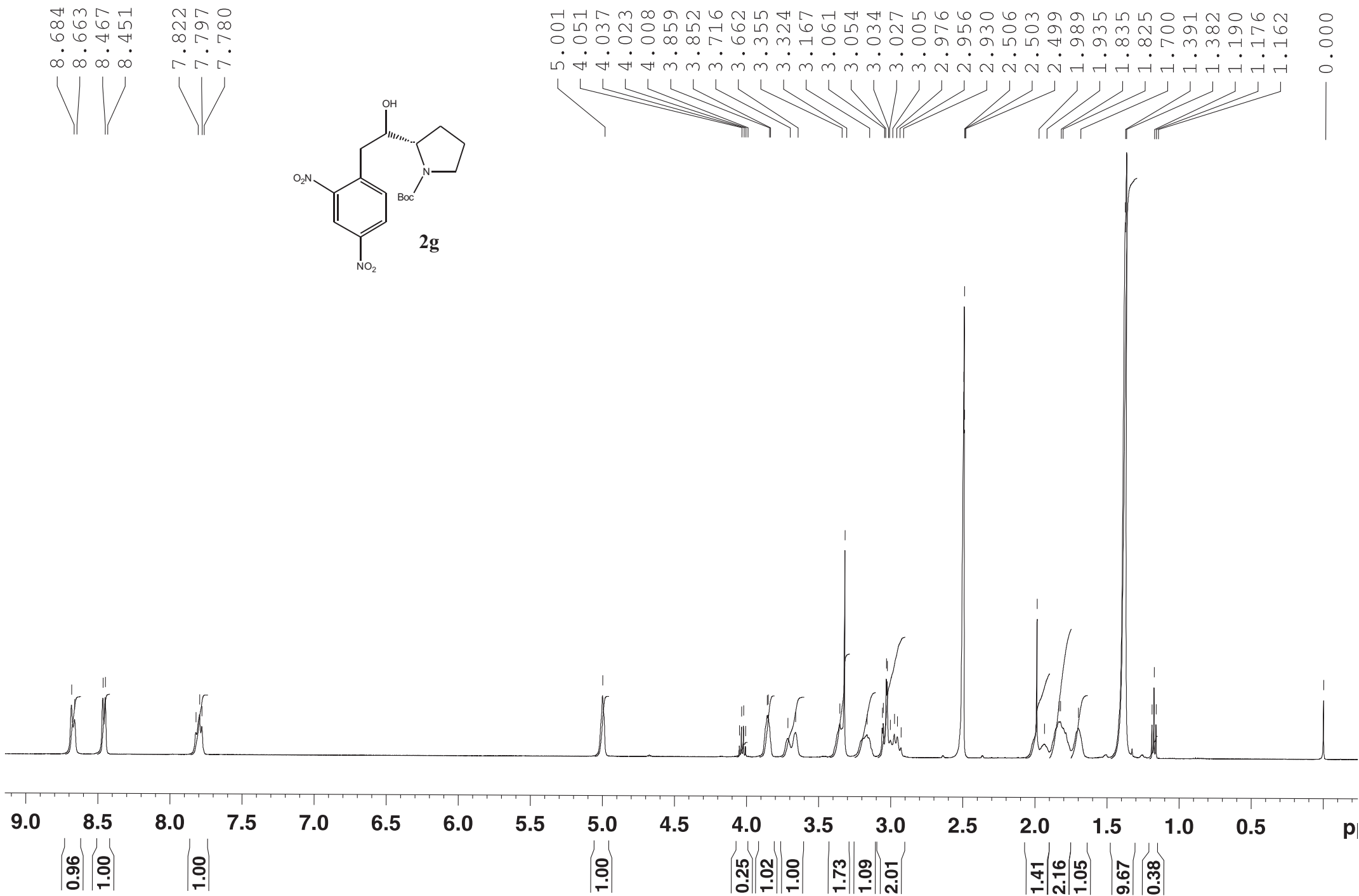
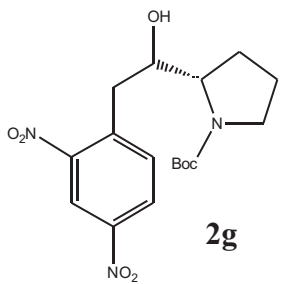
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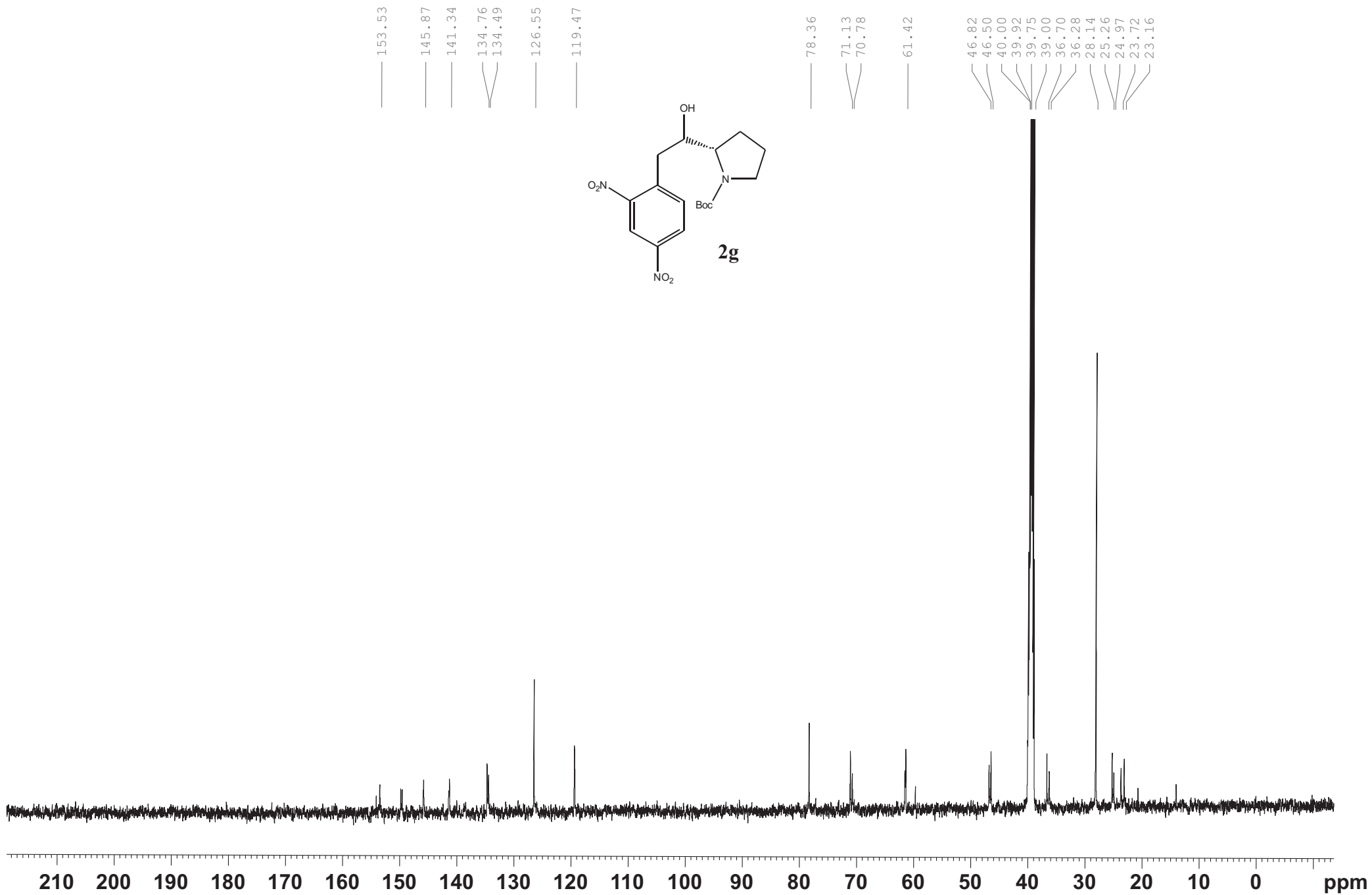
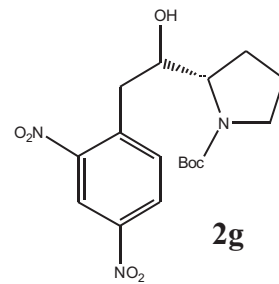




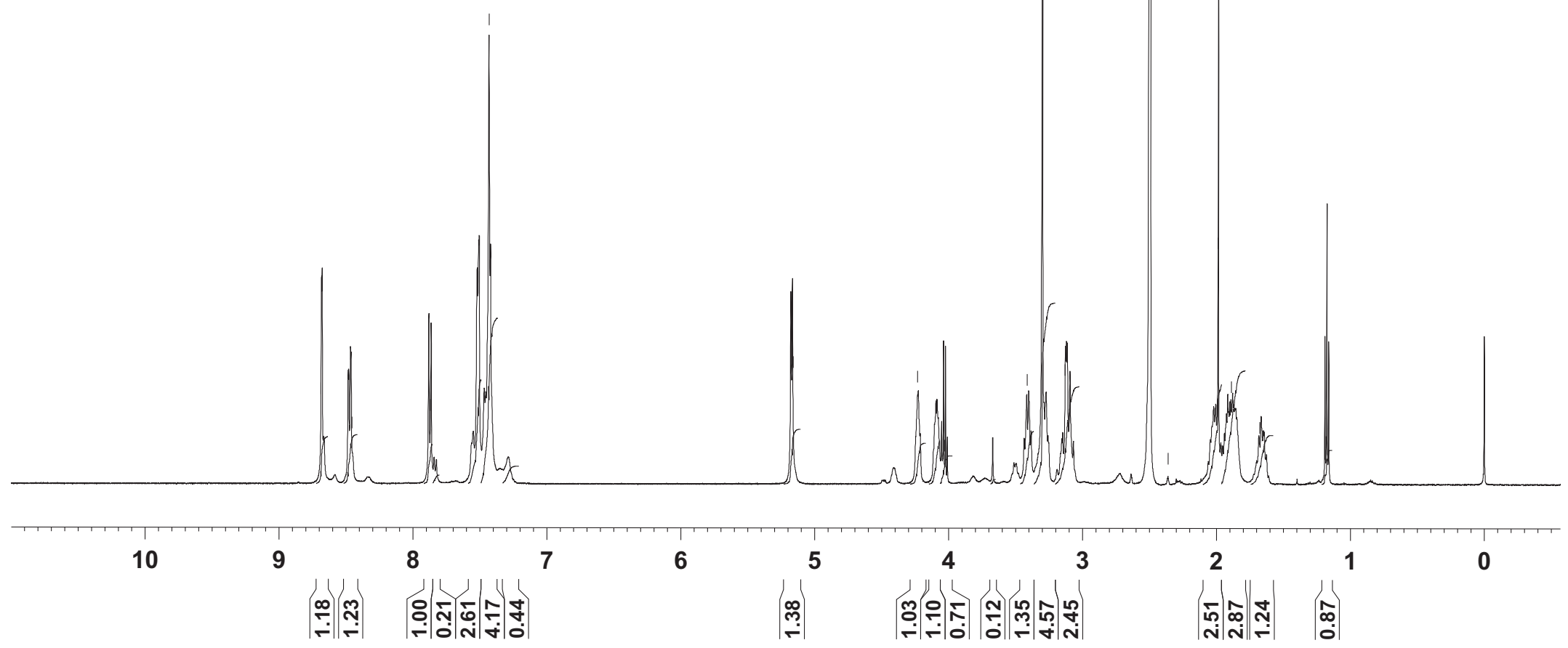
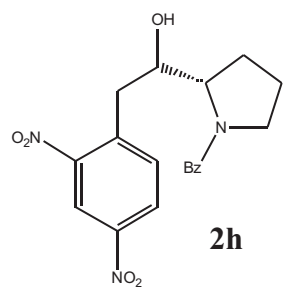
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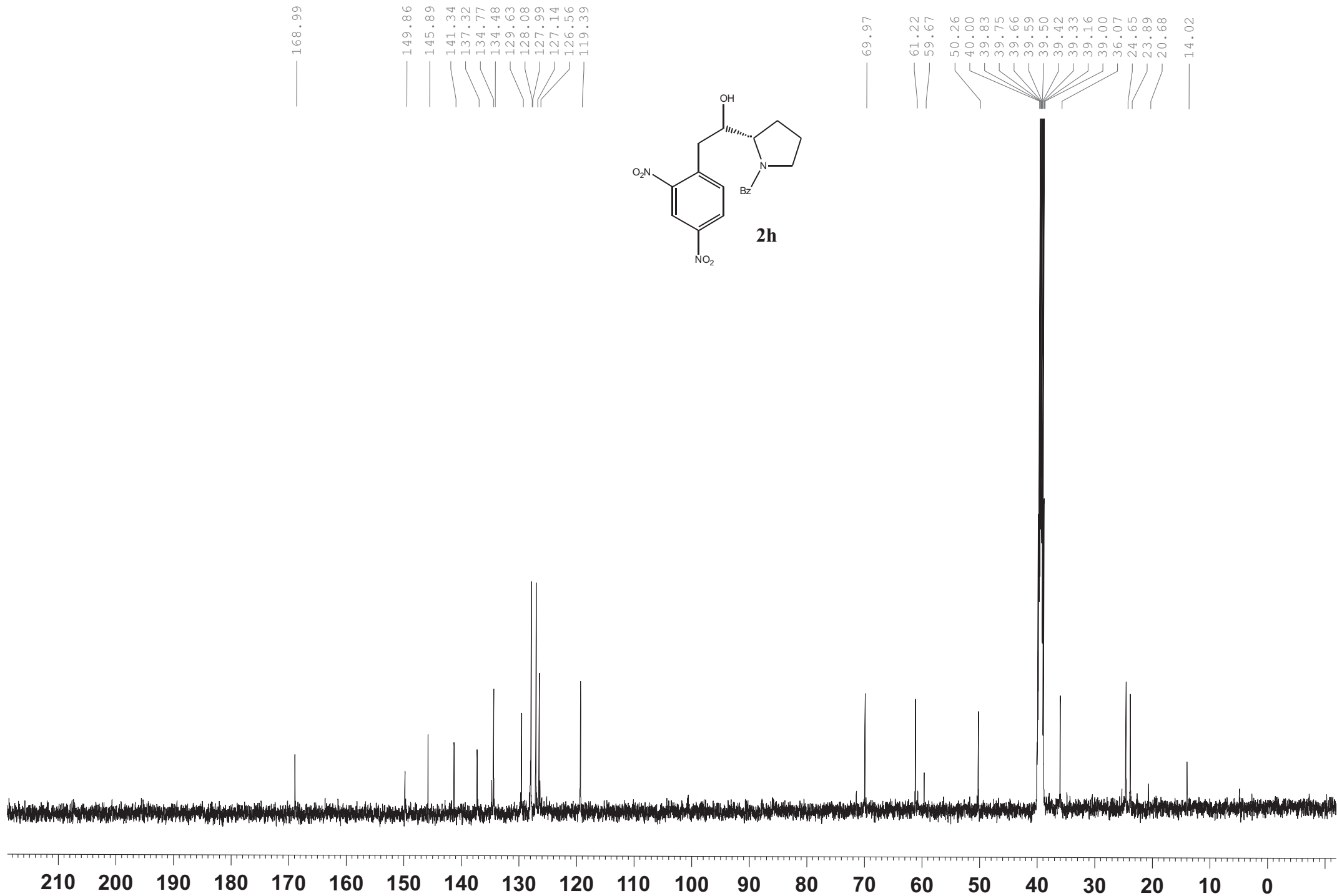


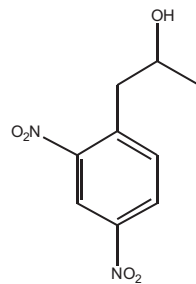


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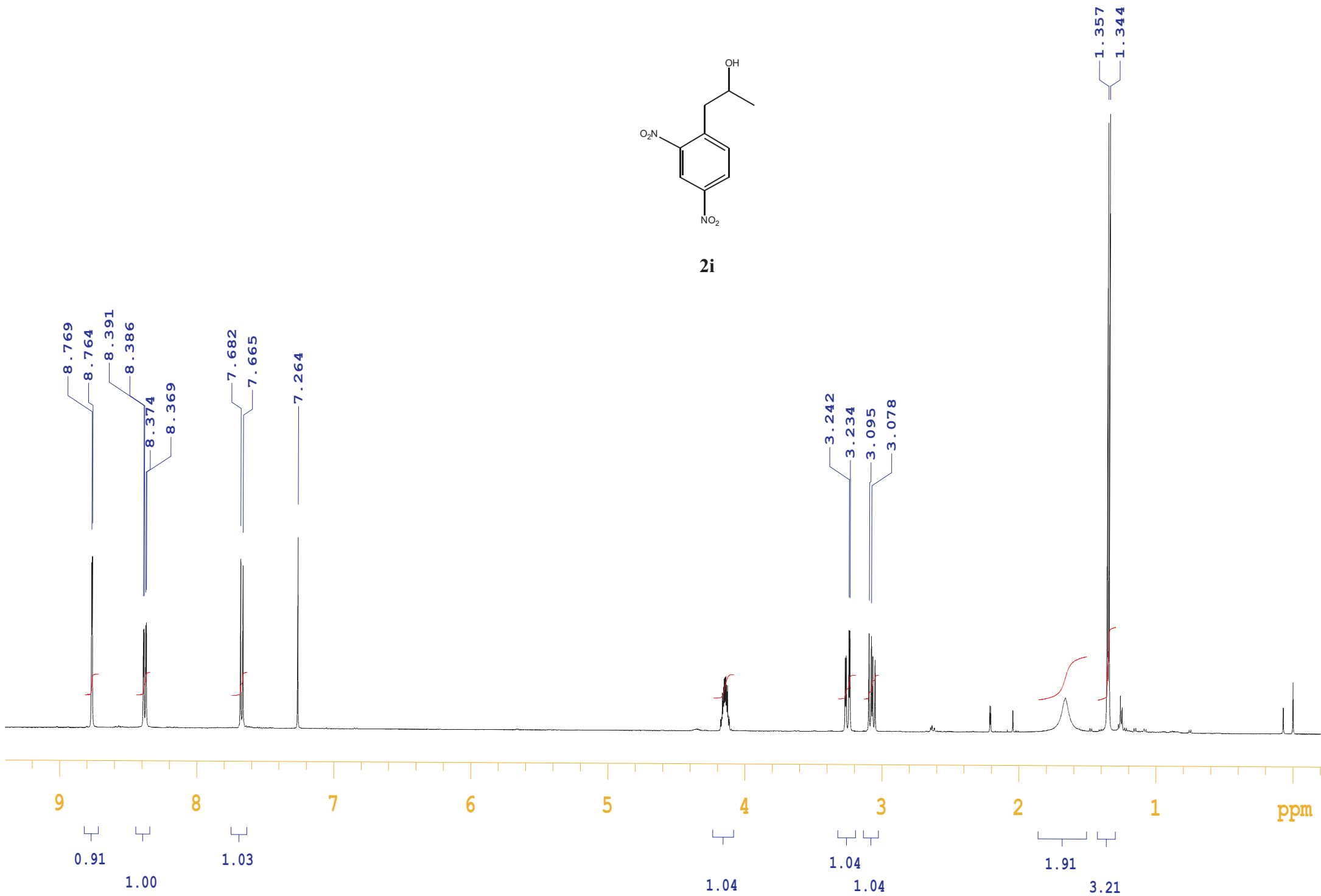


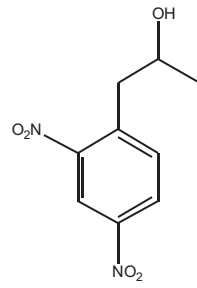




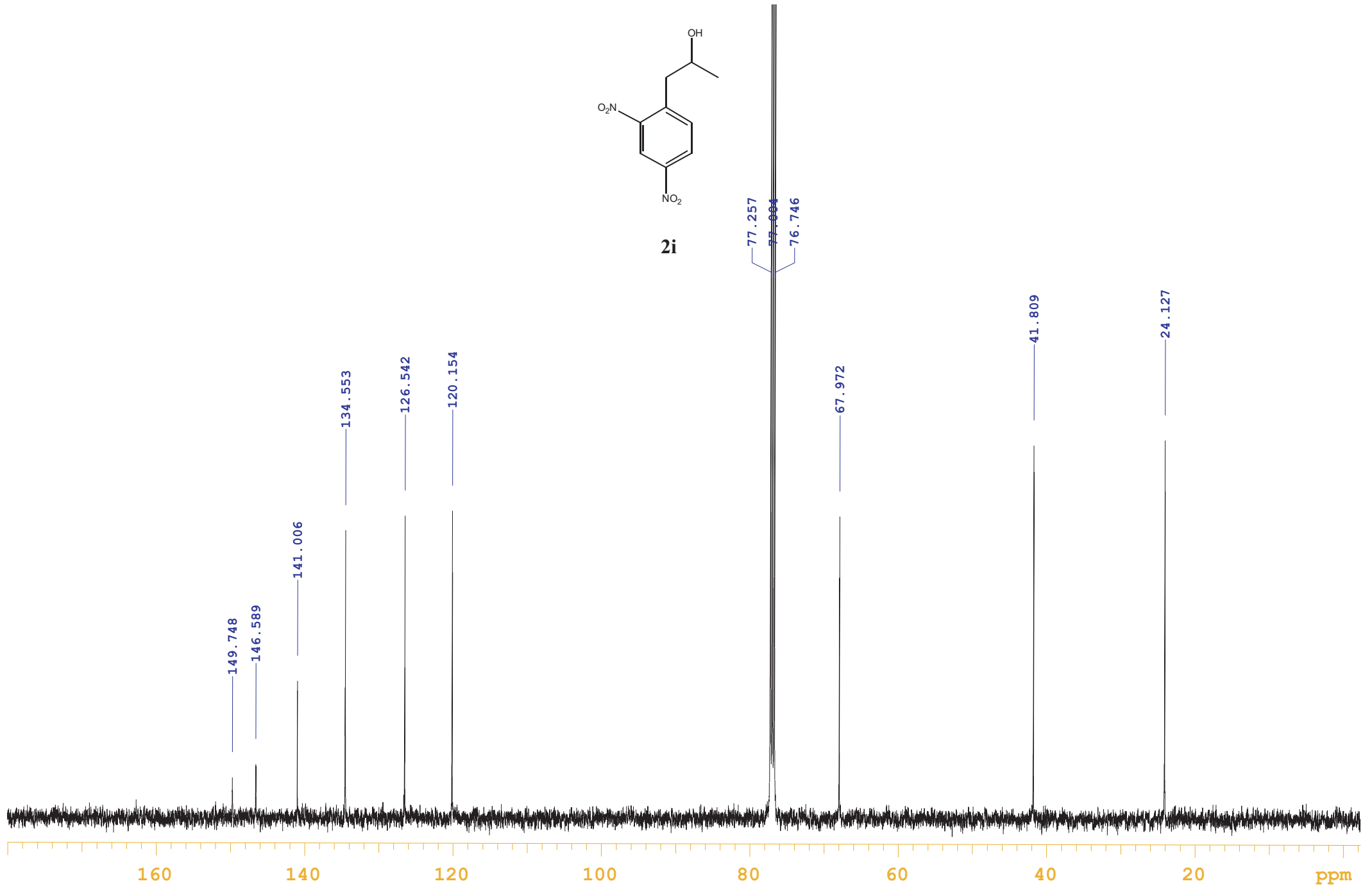


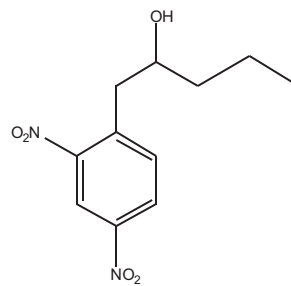
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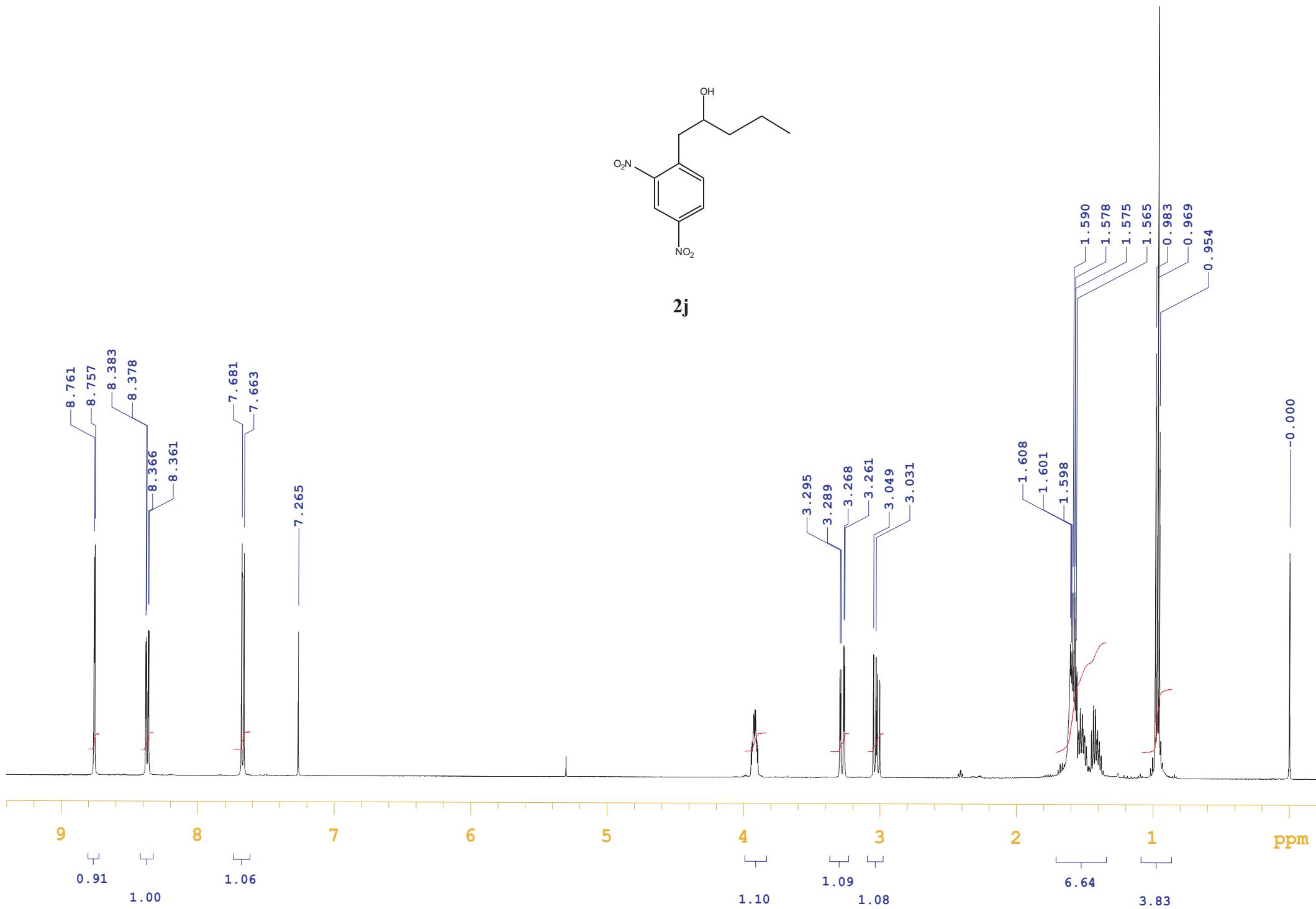


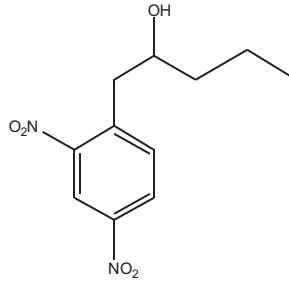
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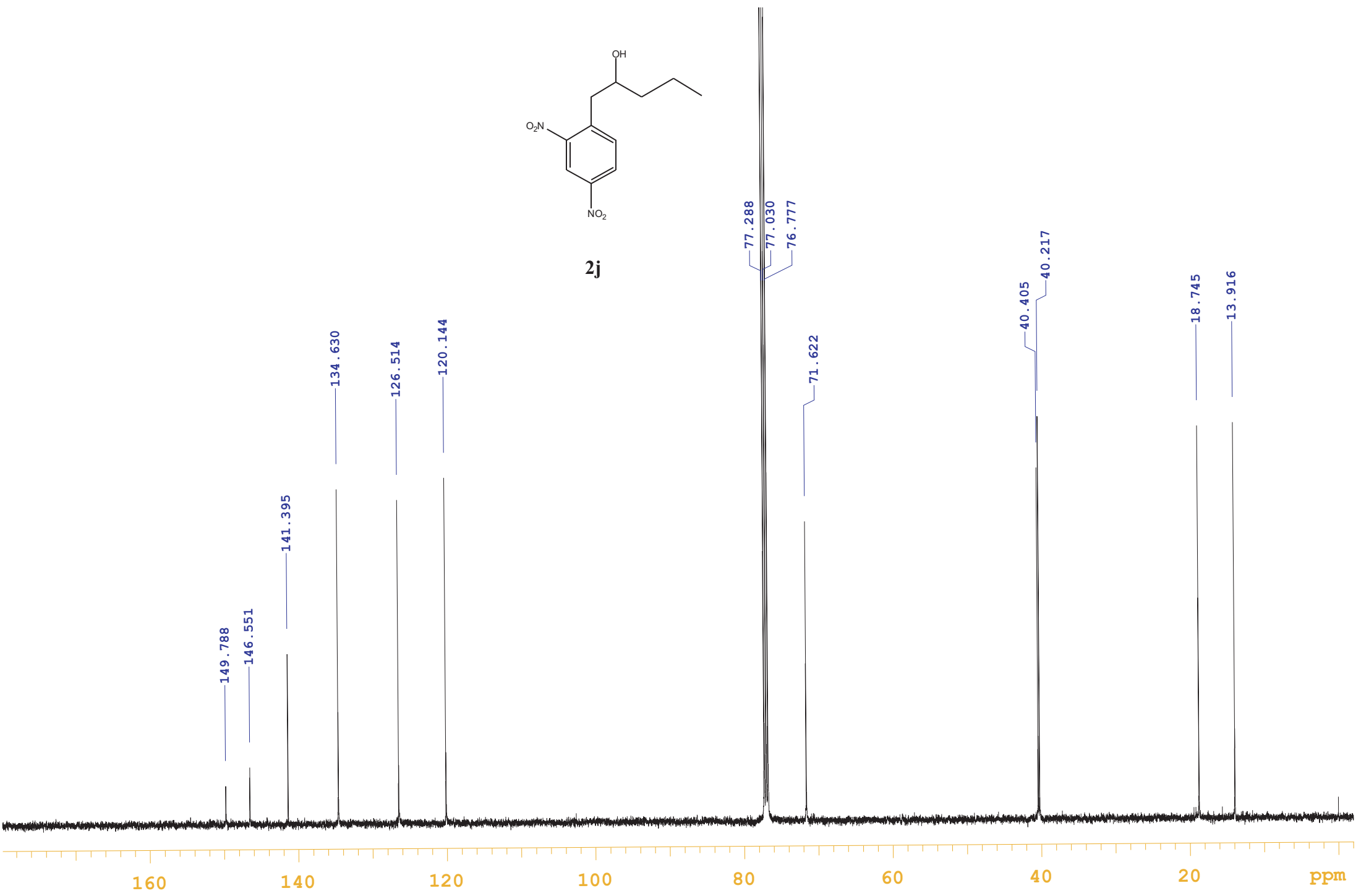


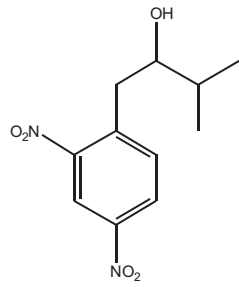
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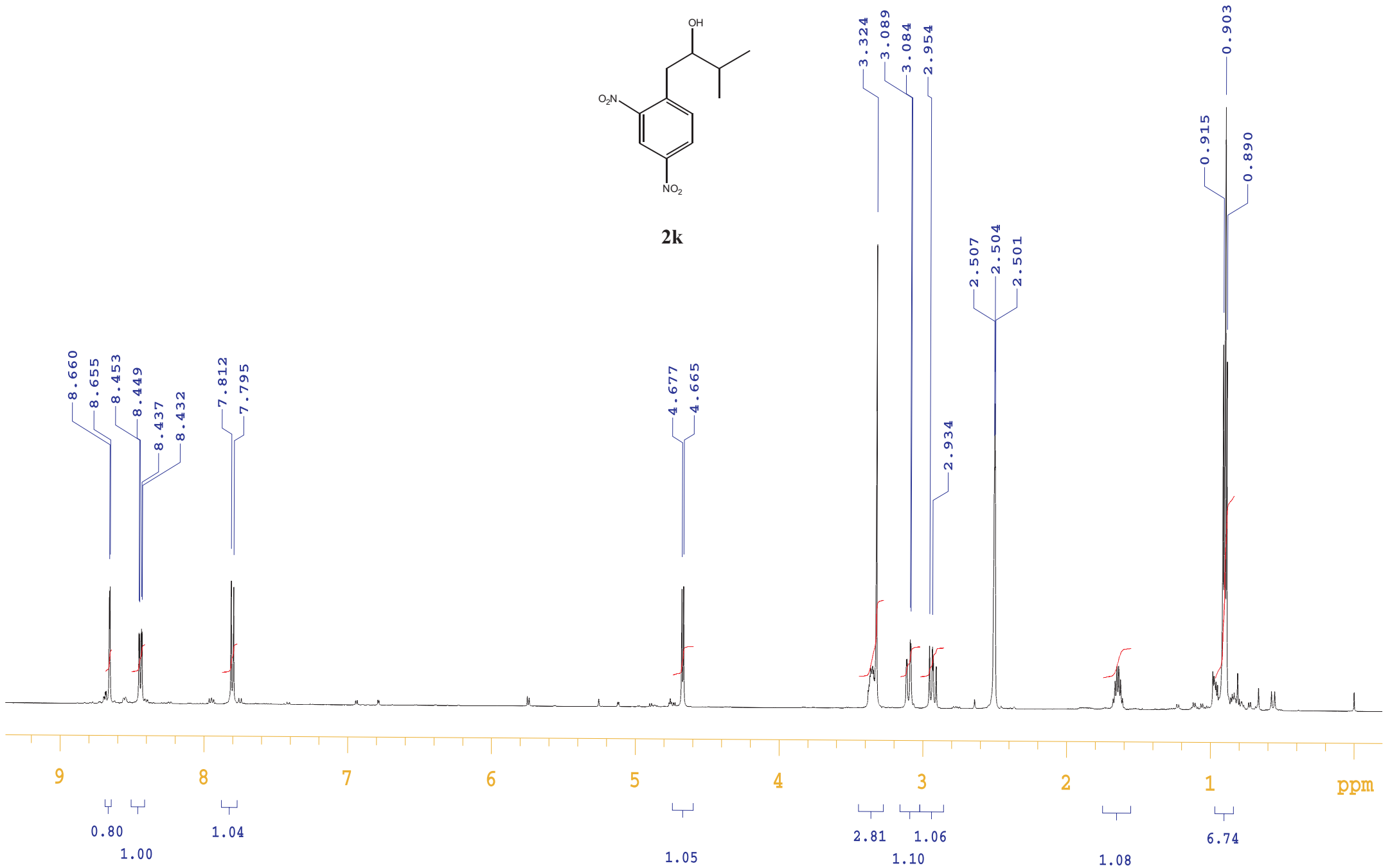


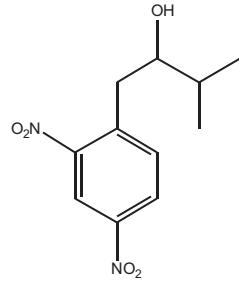
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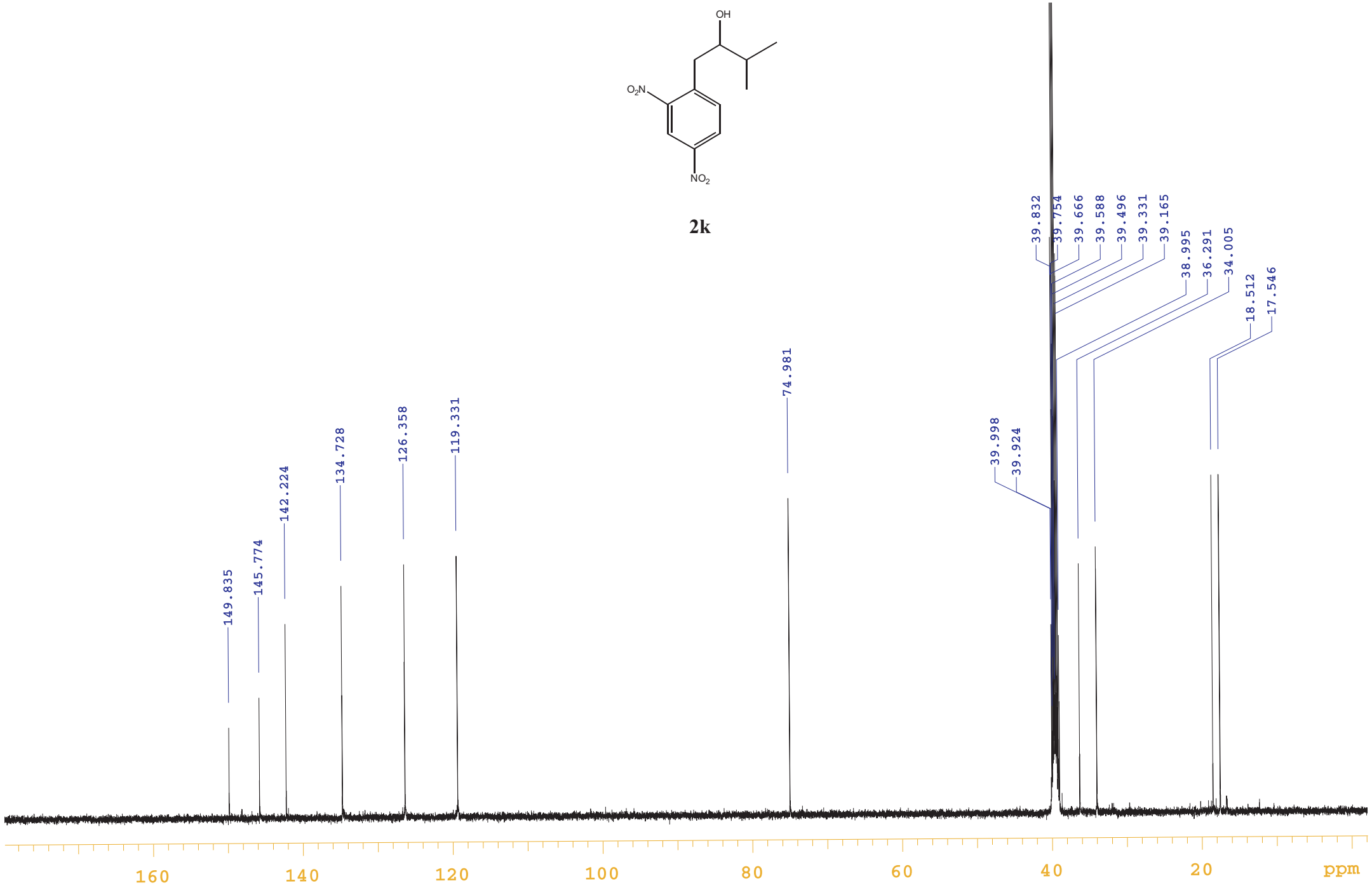


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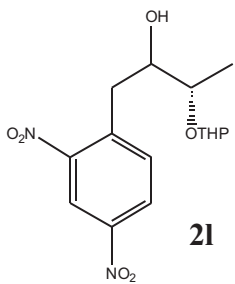


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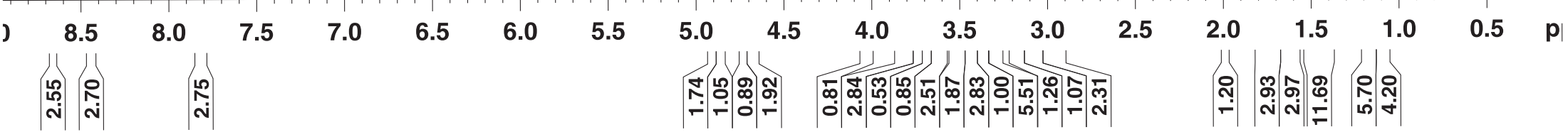
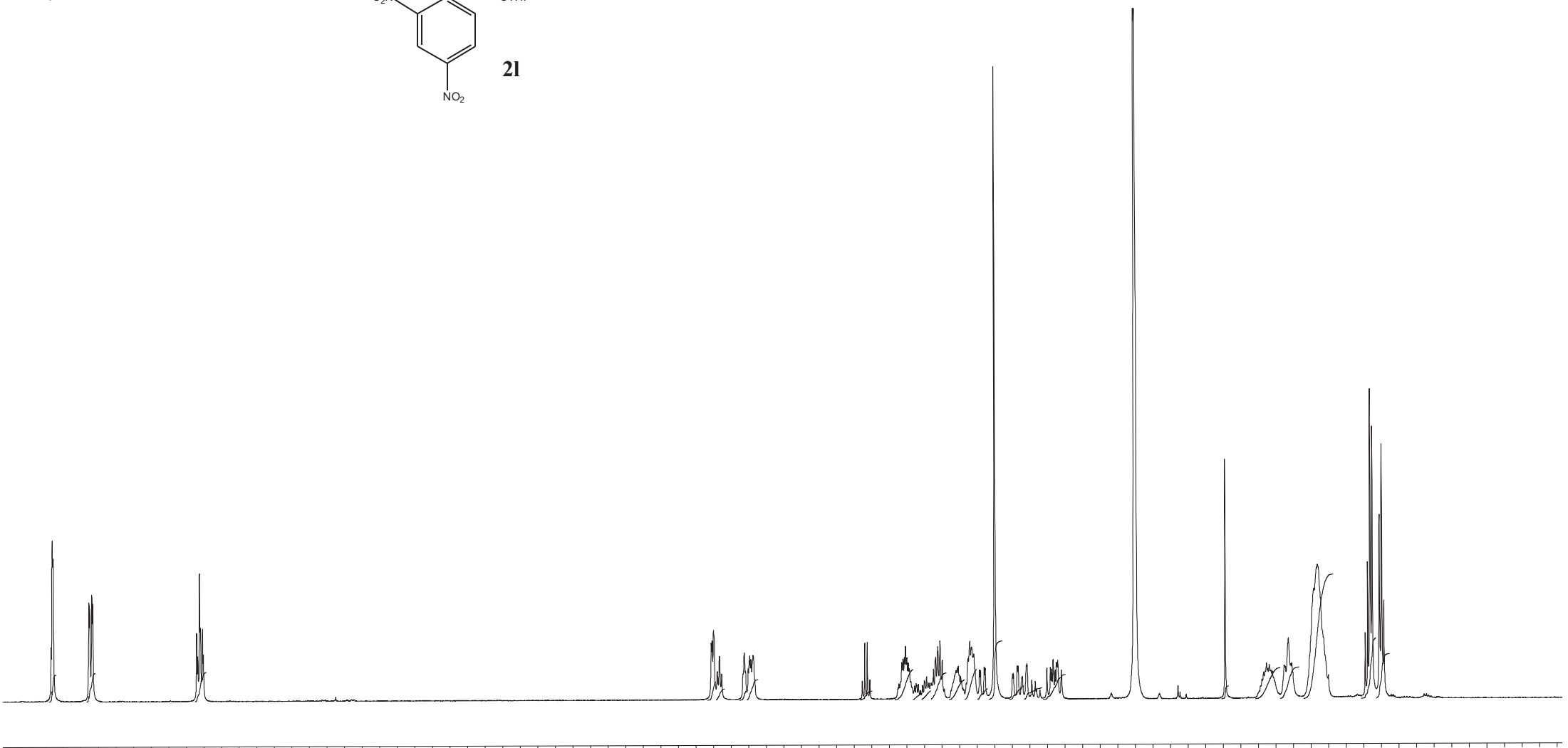


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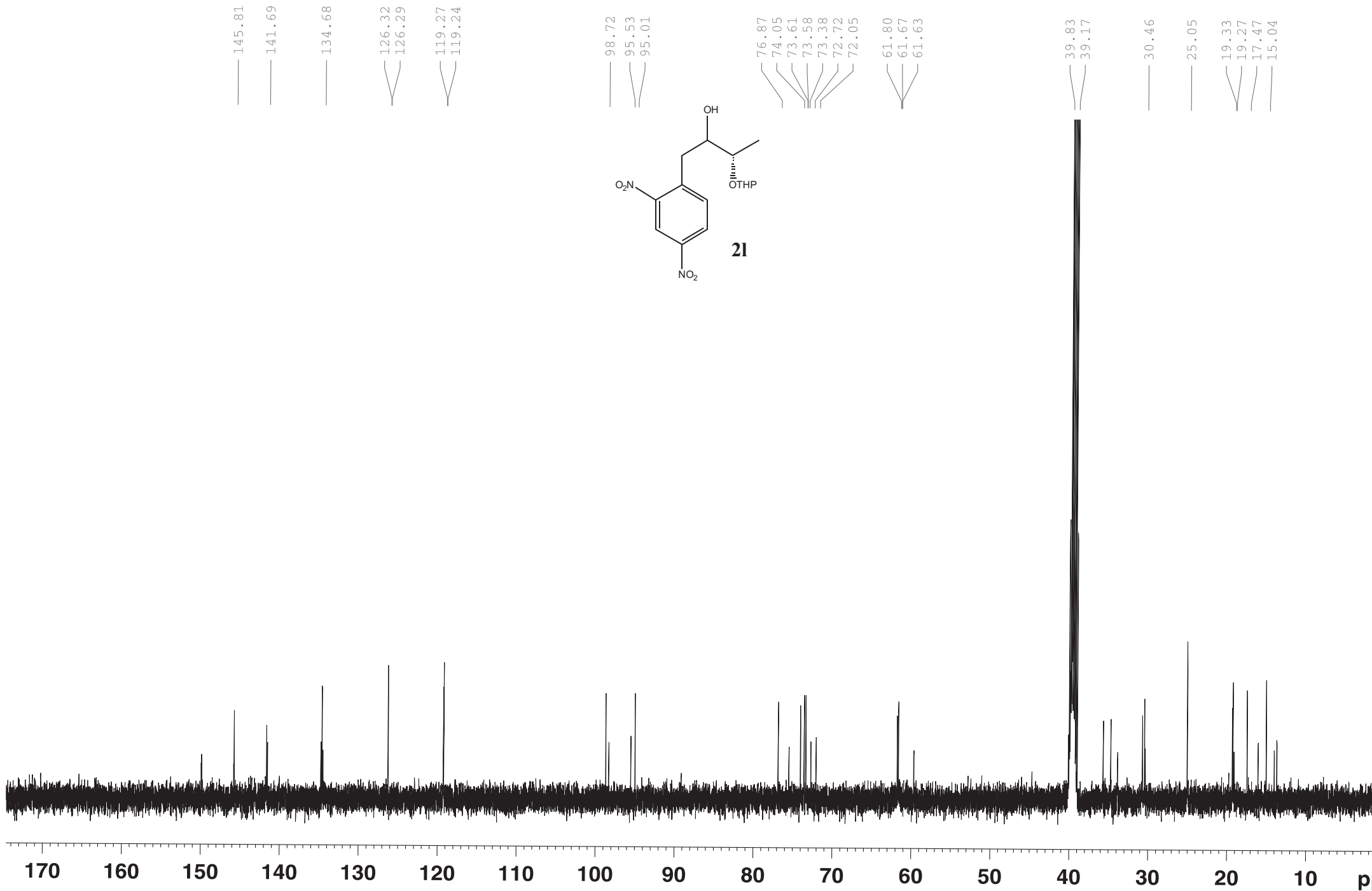
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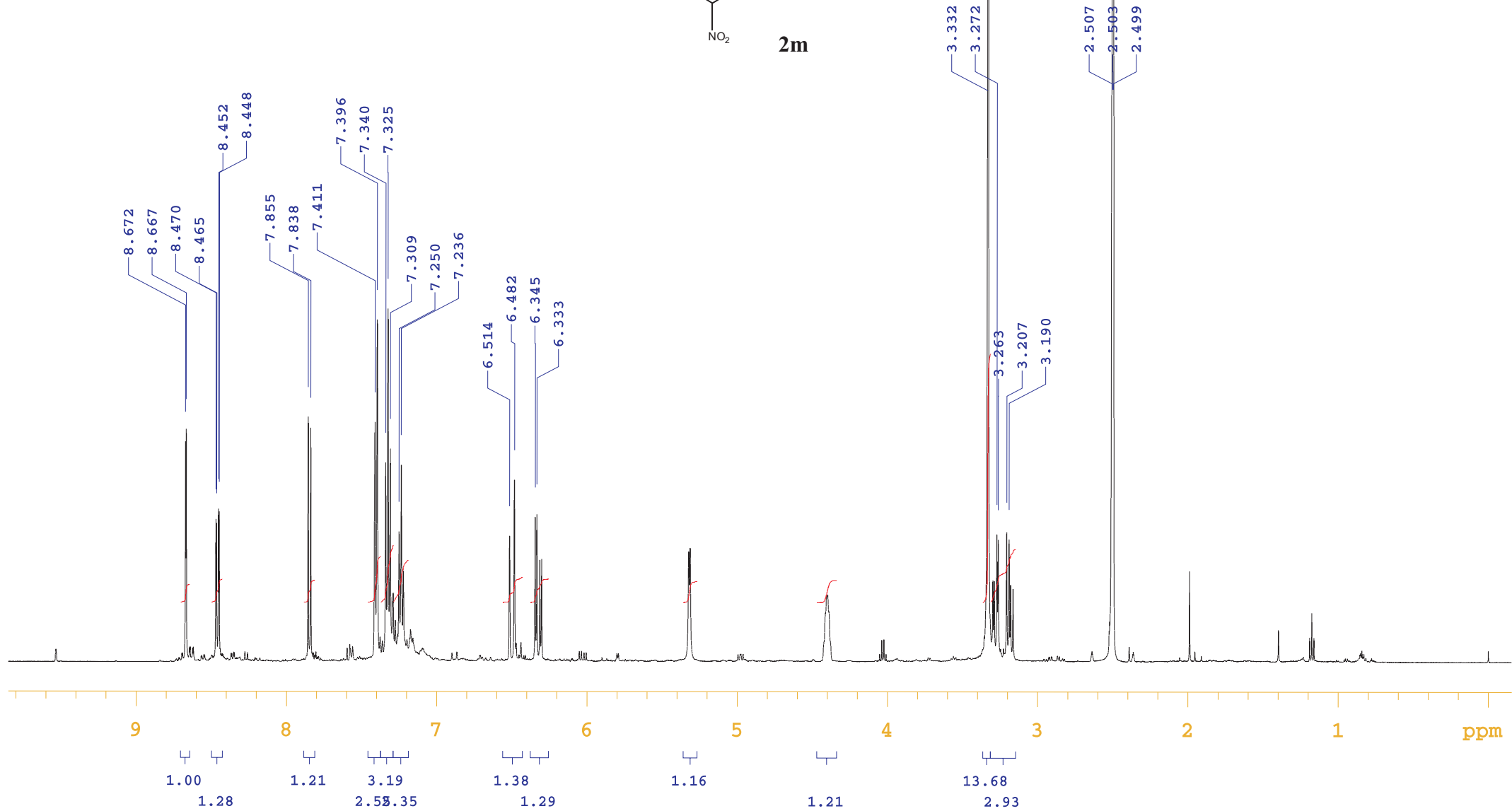
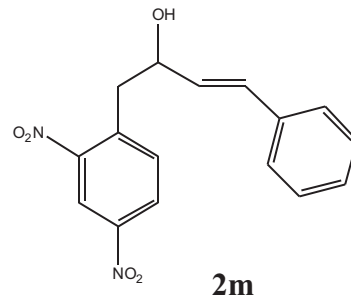
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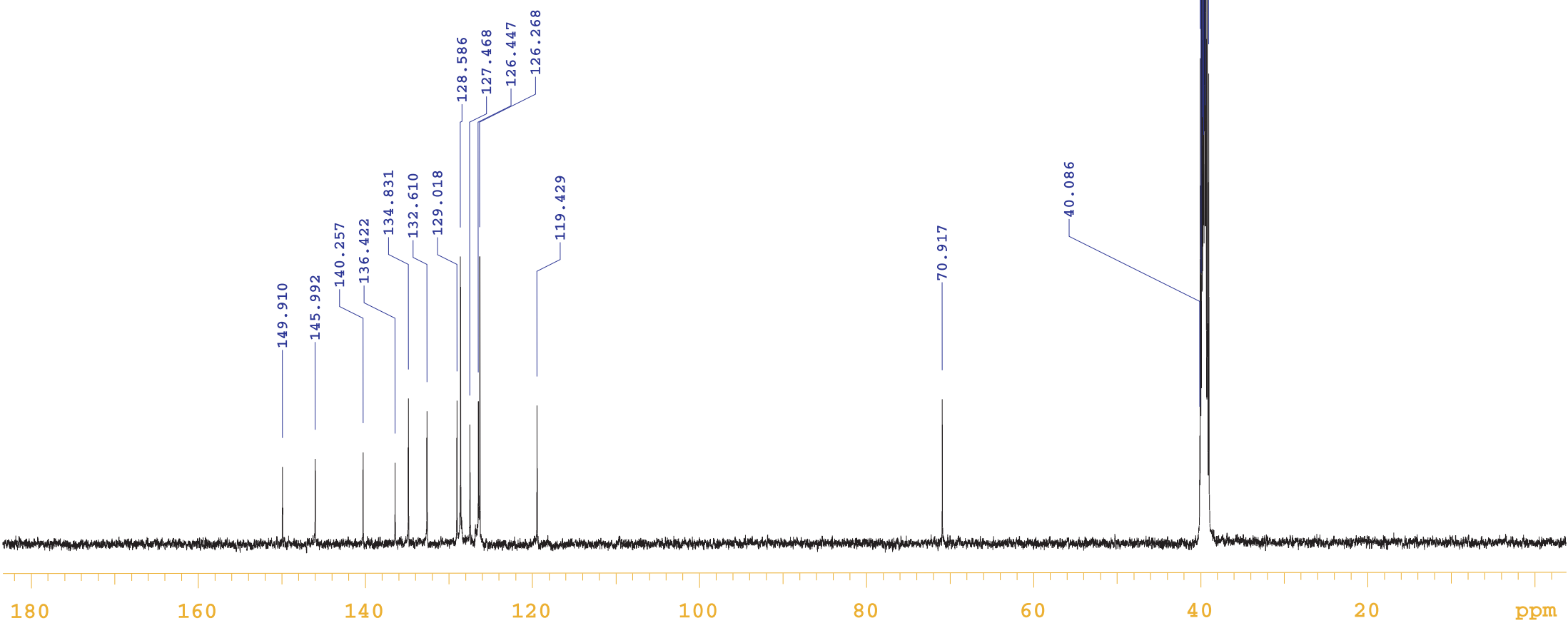
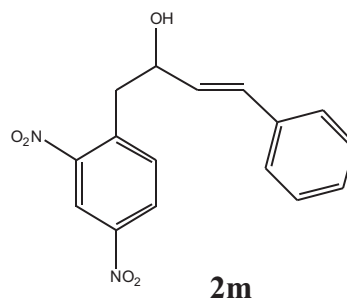
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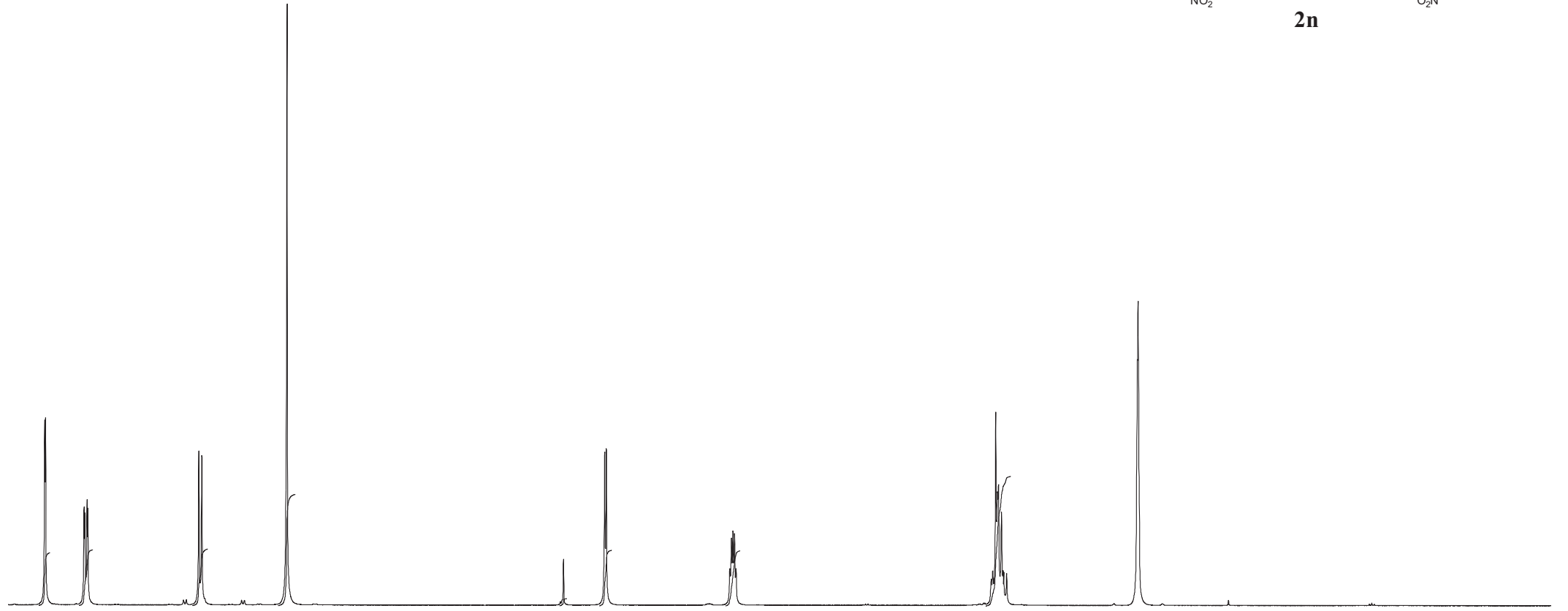
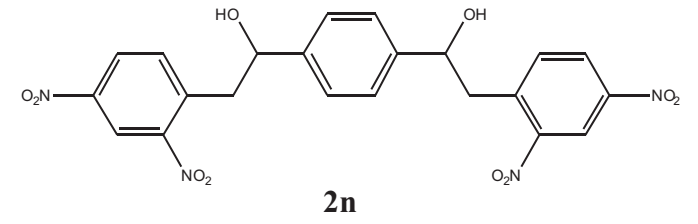
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2.502  
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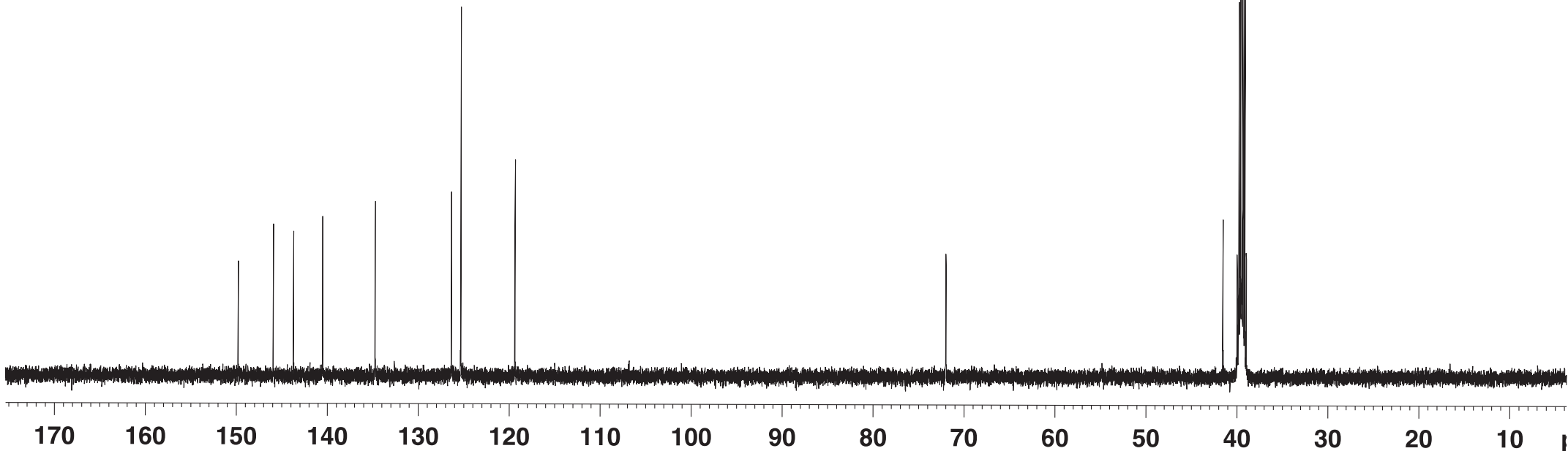
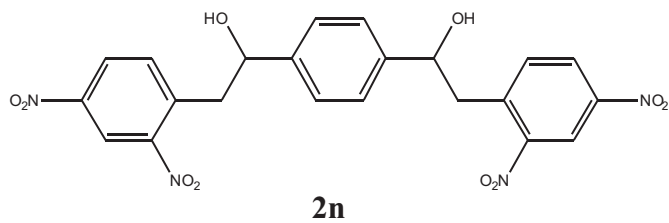
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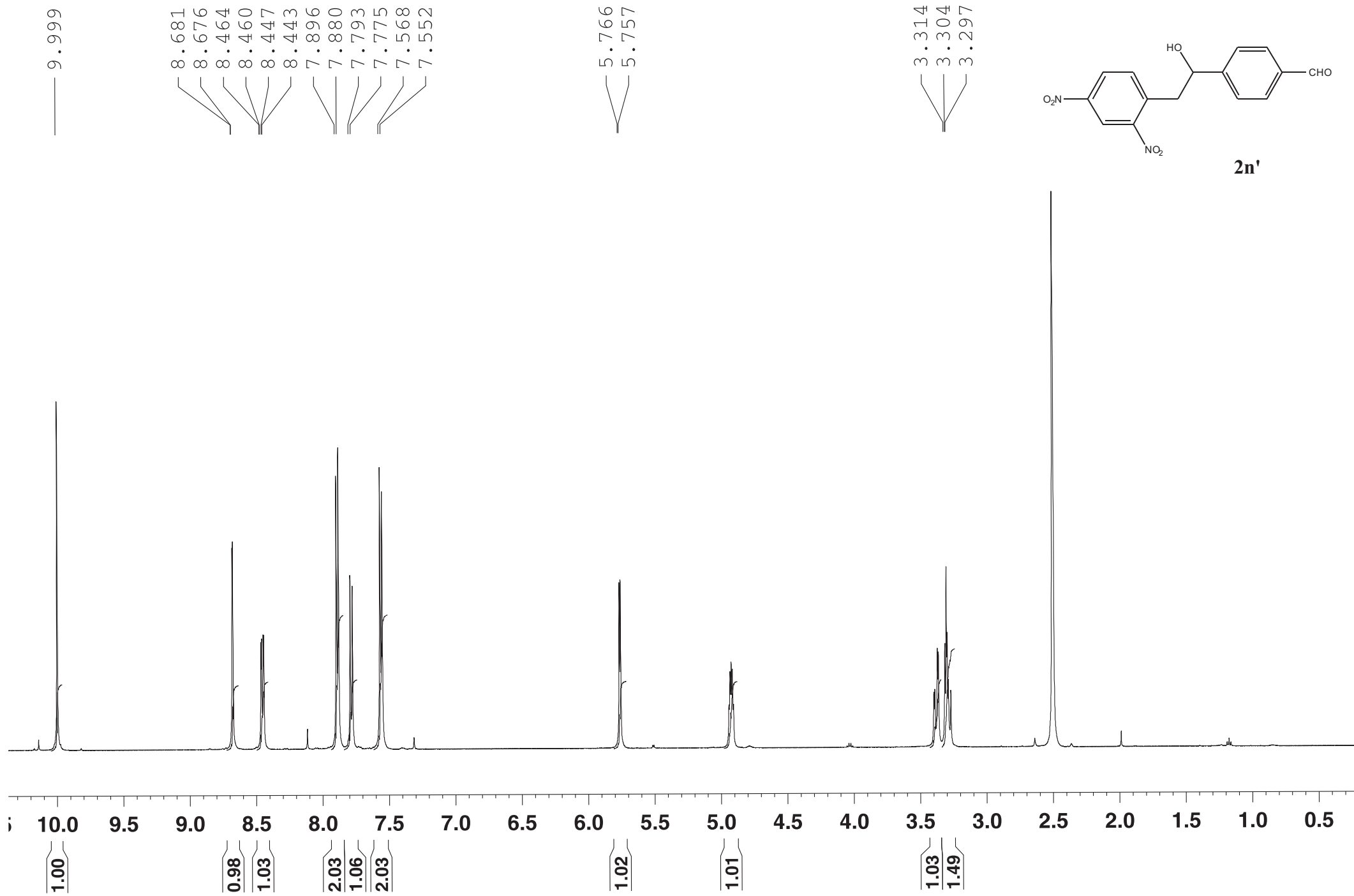
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125.36  
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72.00

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39.83  
39.76  
39.67  
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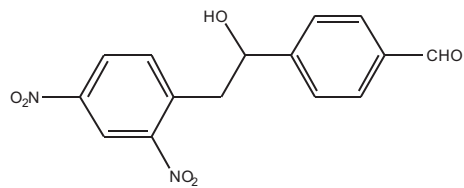
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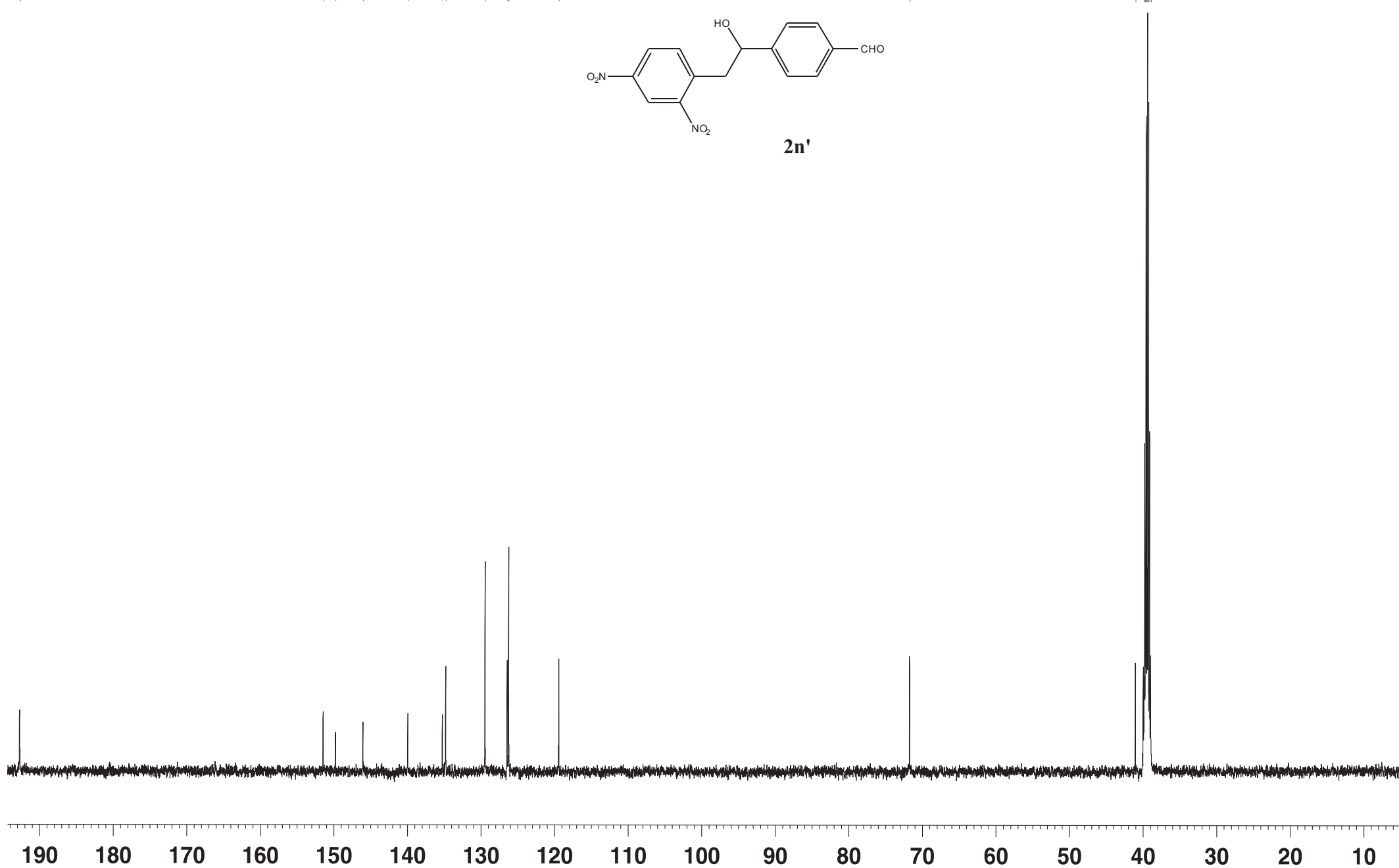
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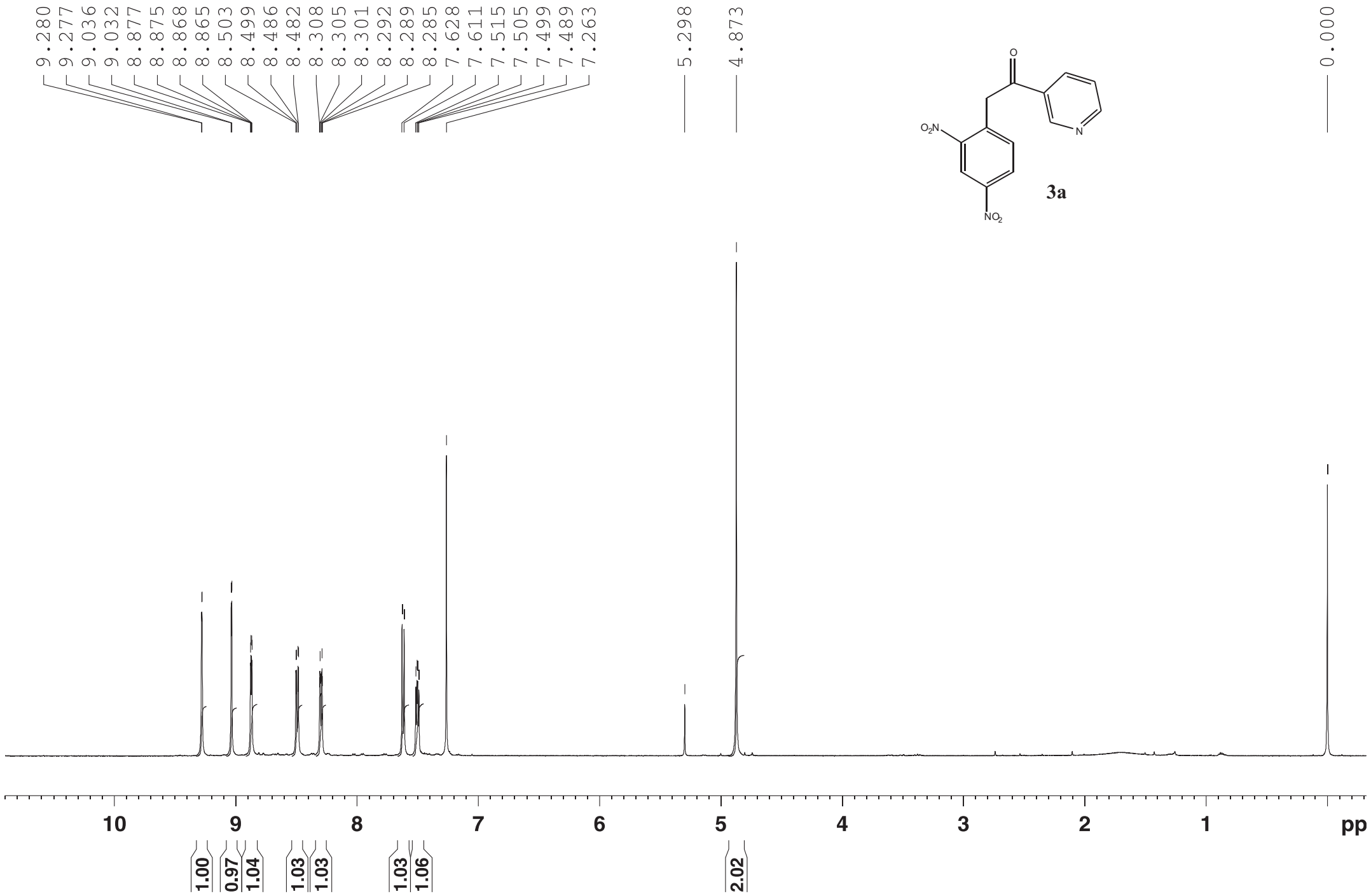
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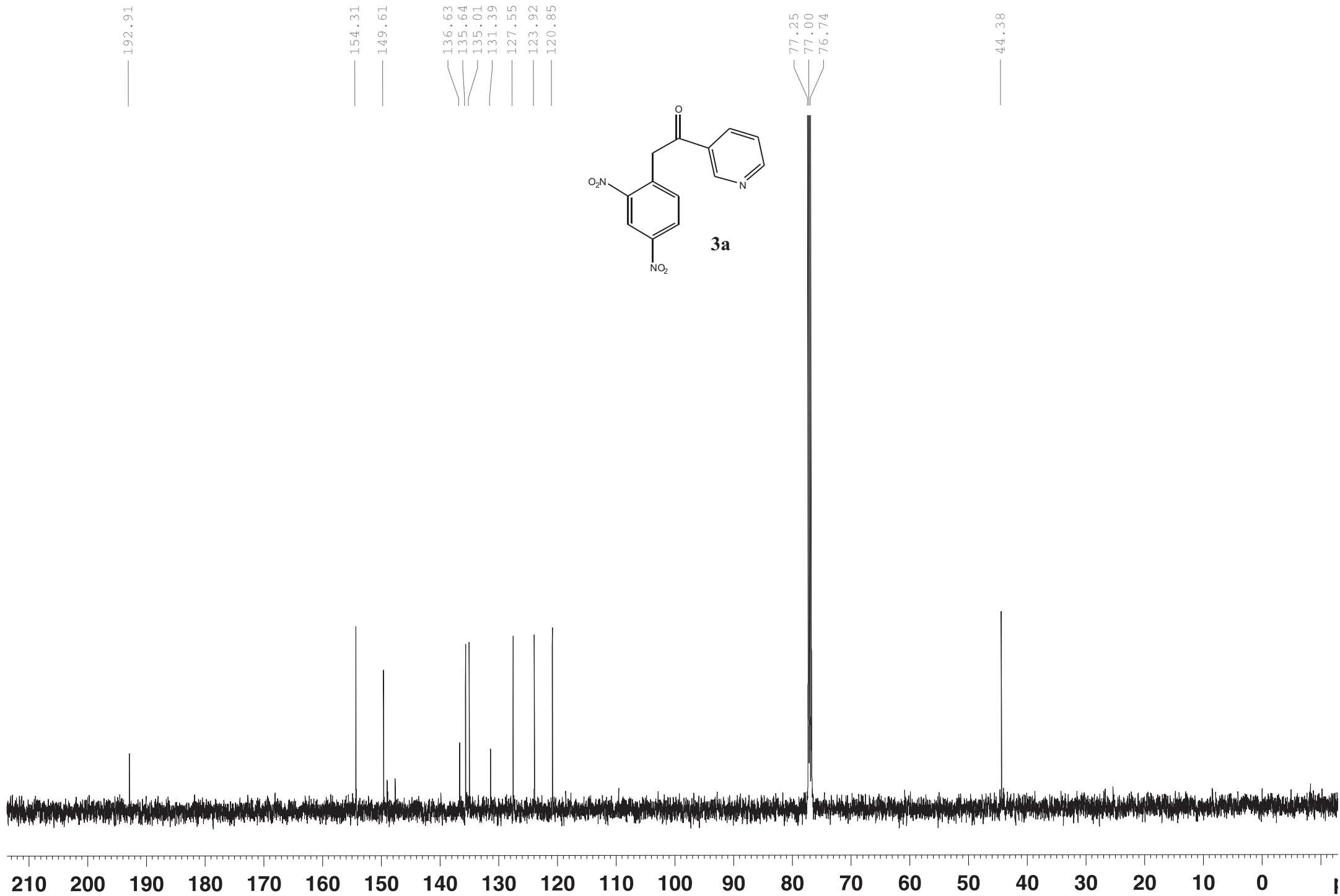


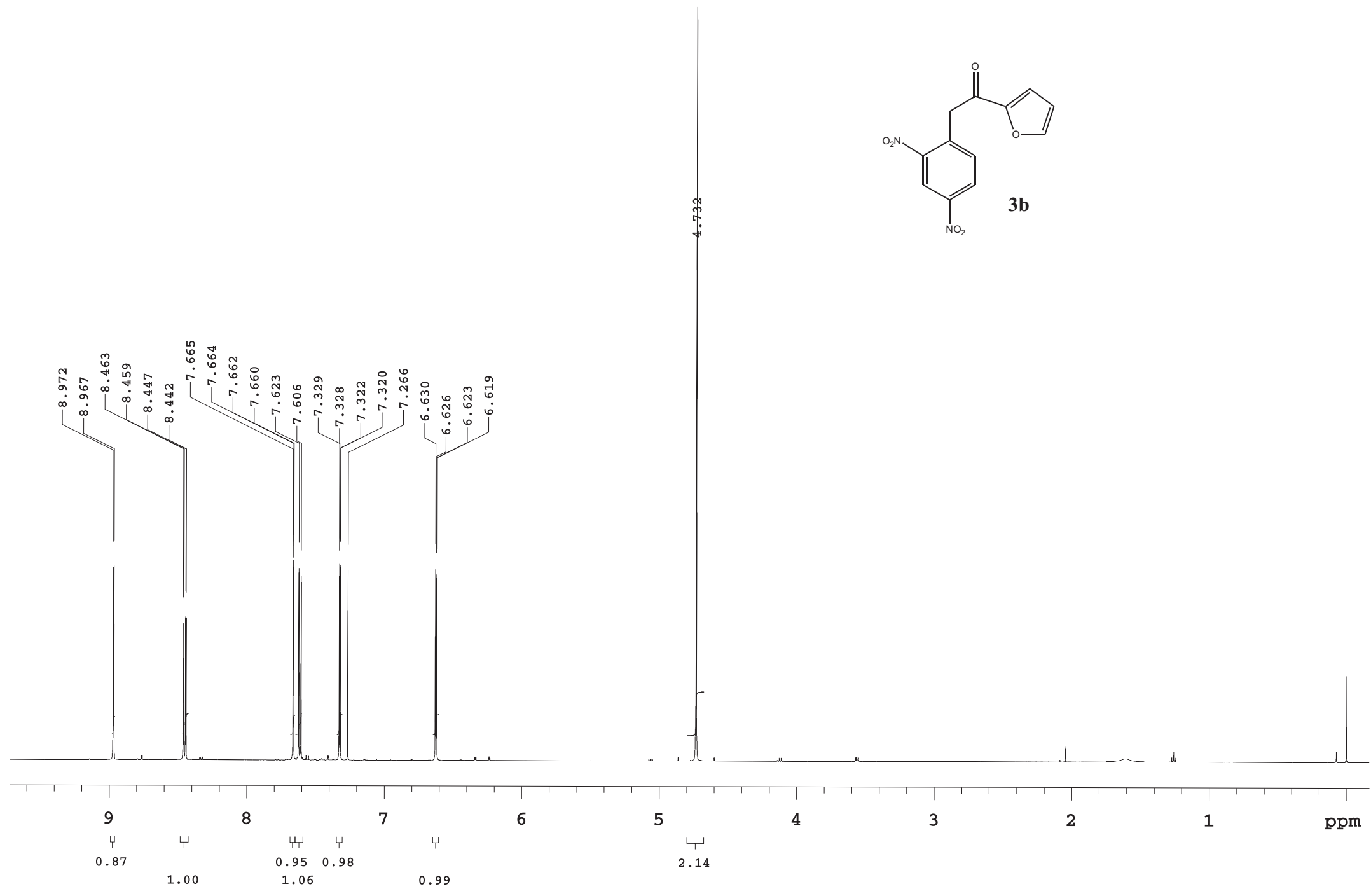
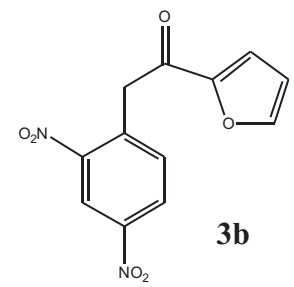
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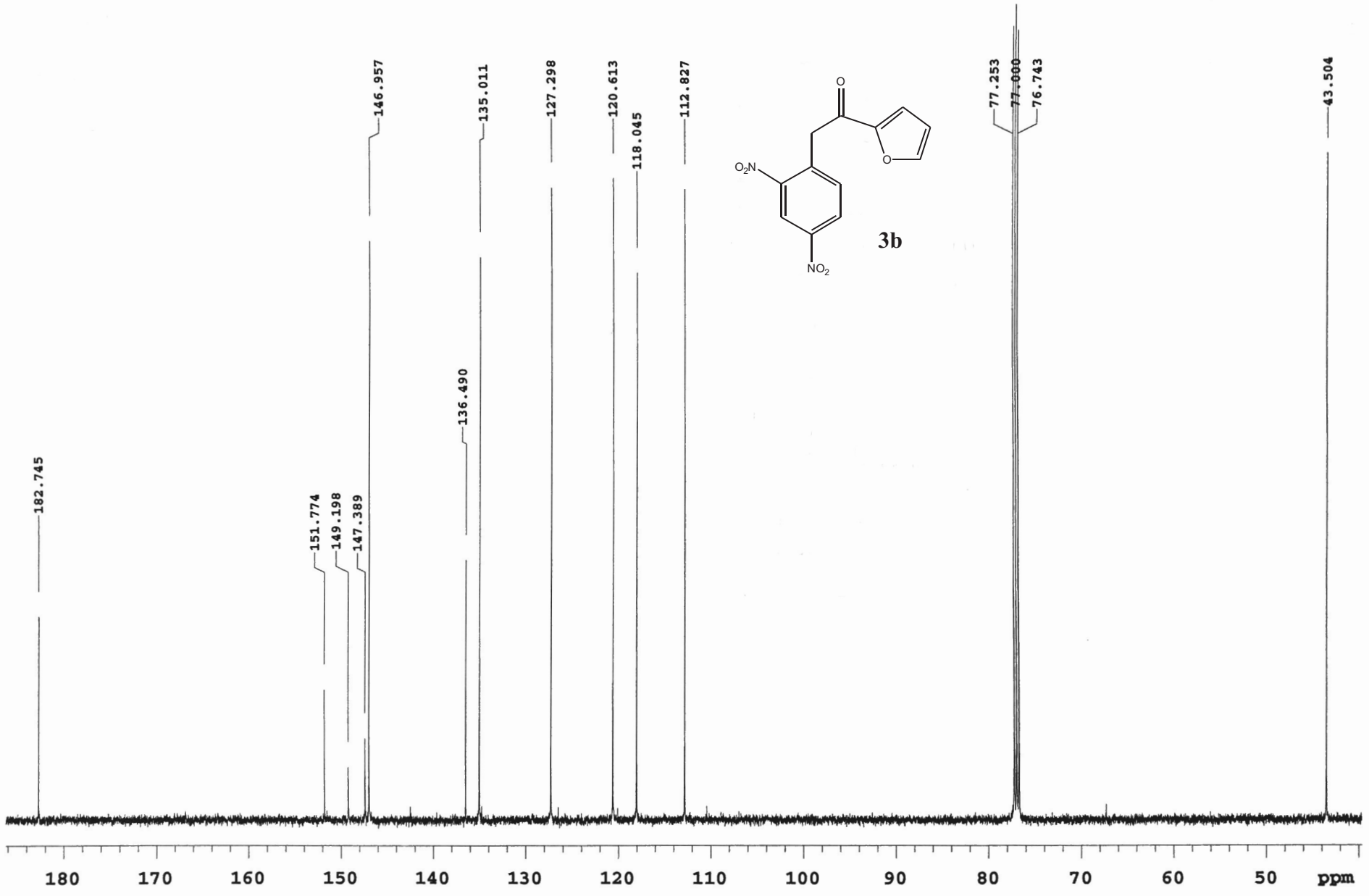
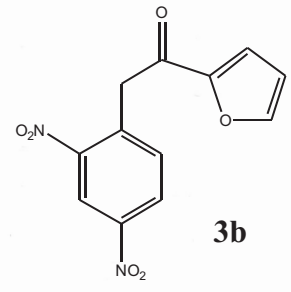


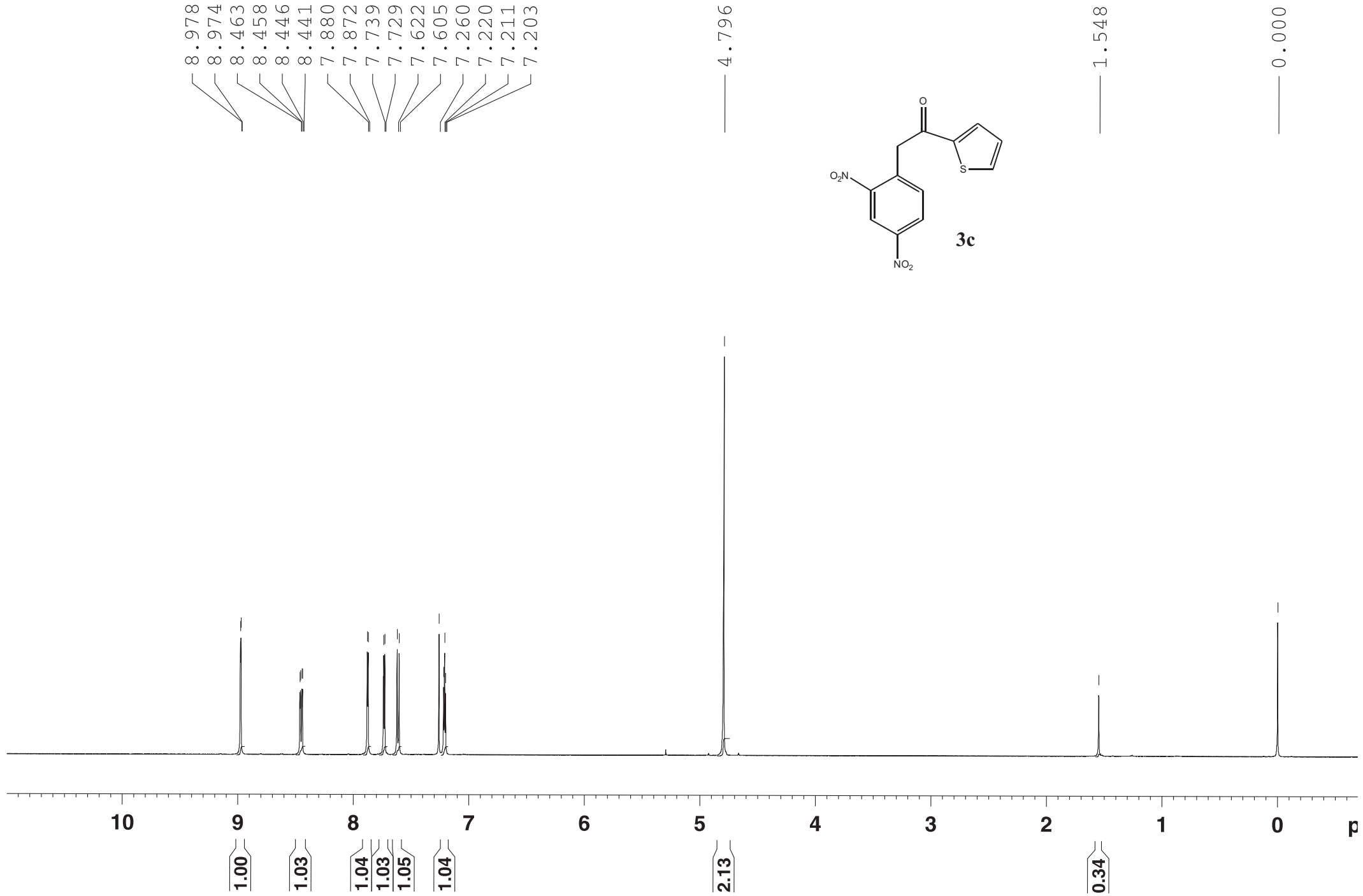












186.41

147.44

142.56

136.67

134.97

134.78

132.74

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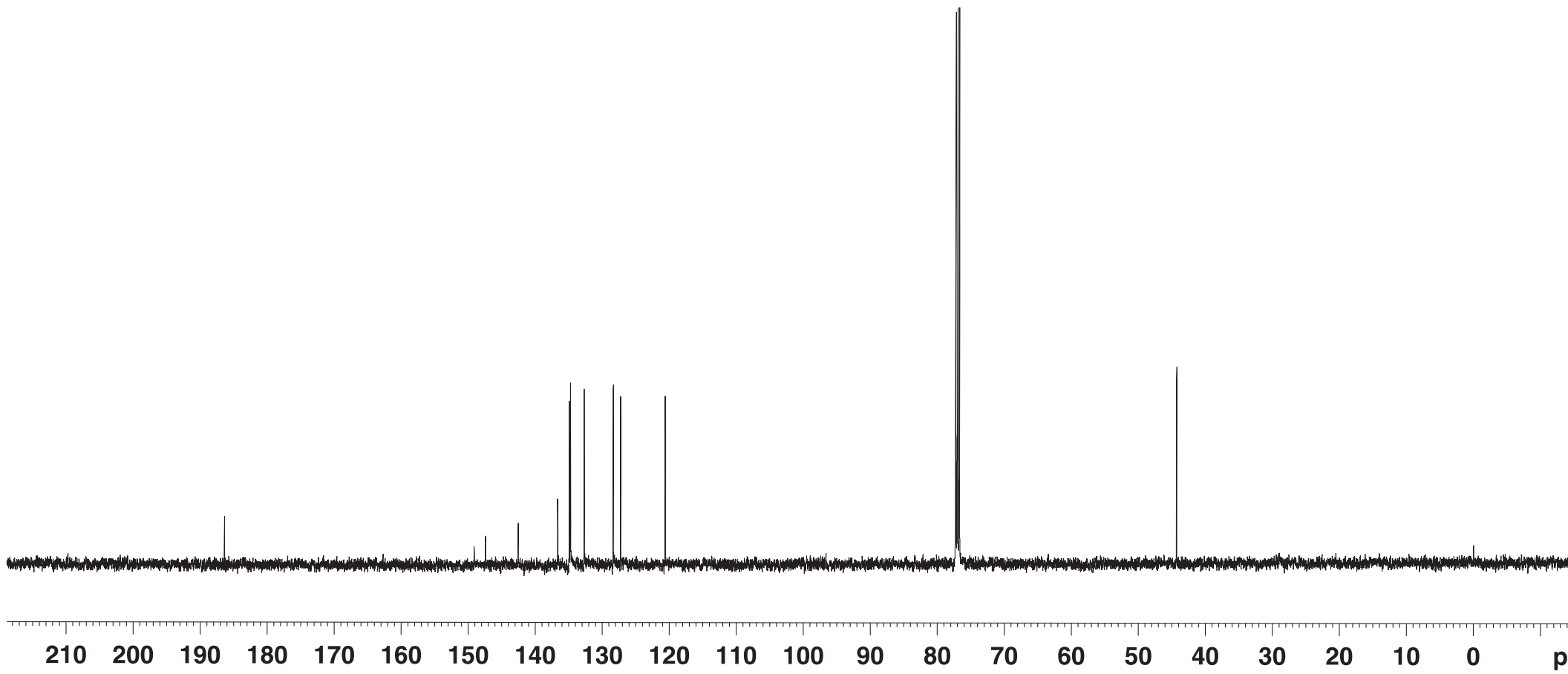
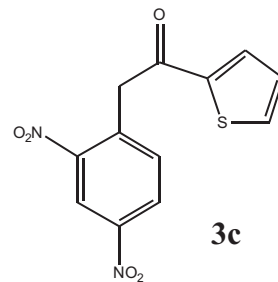
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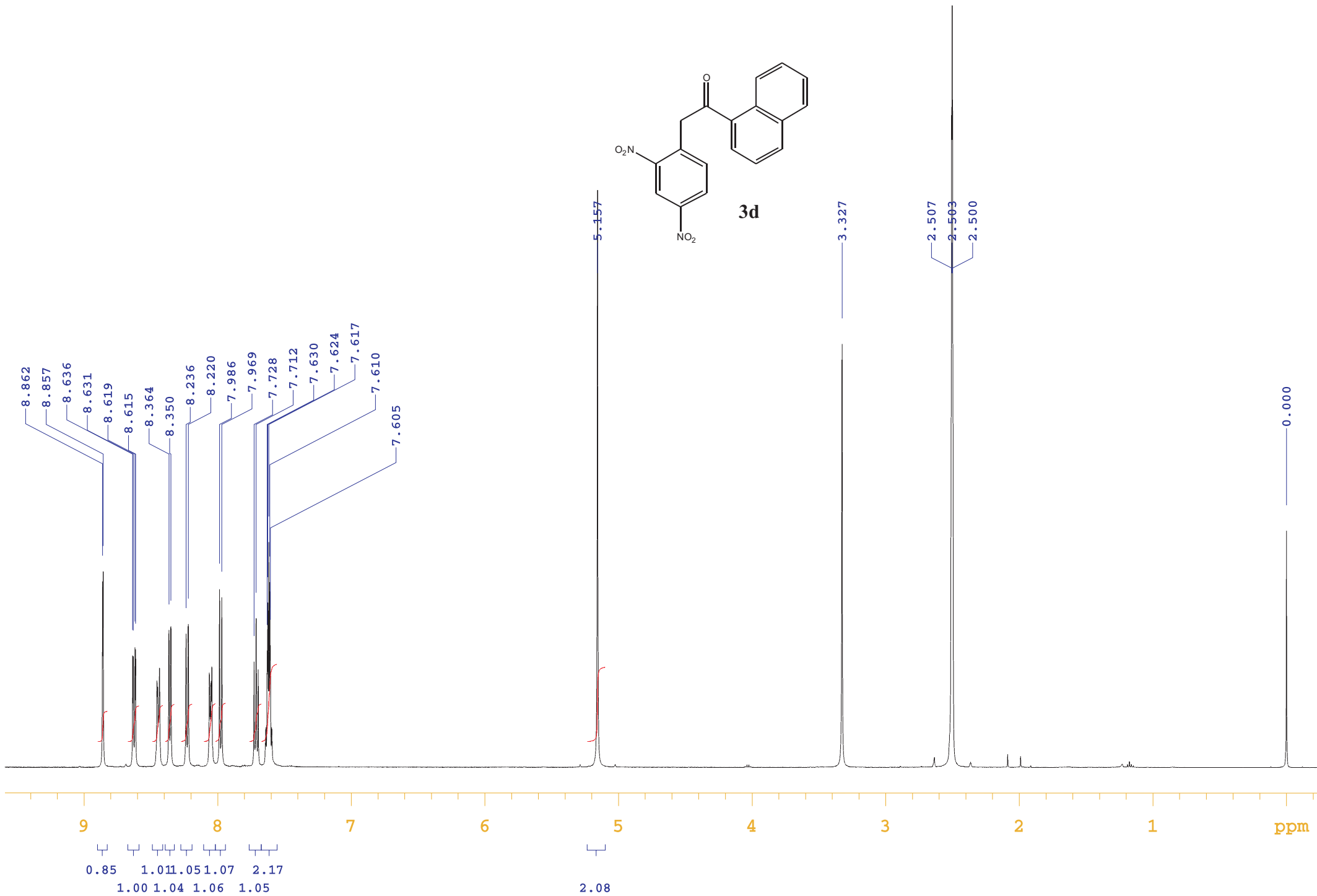
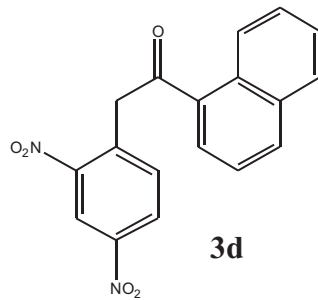
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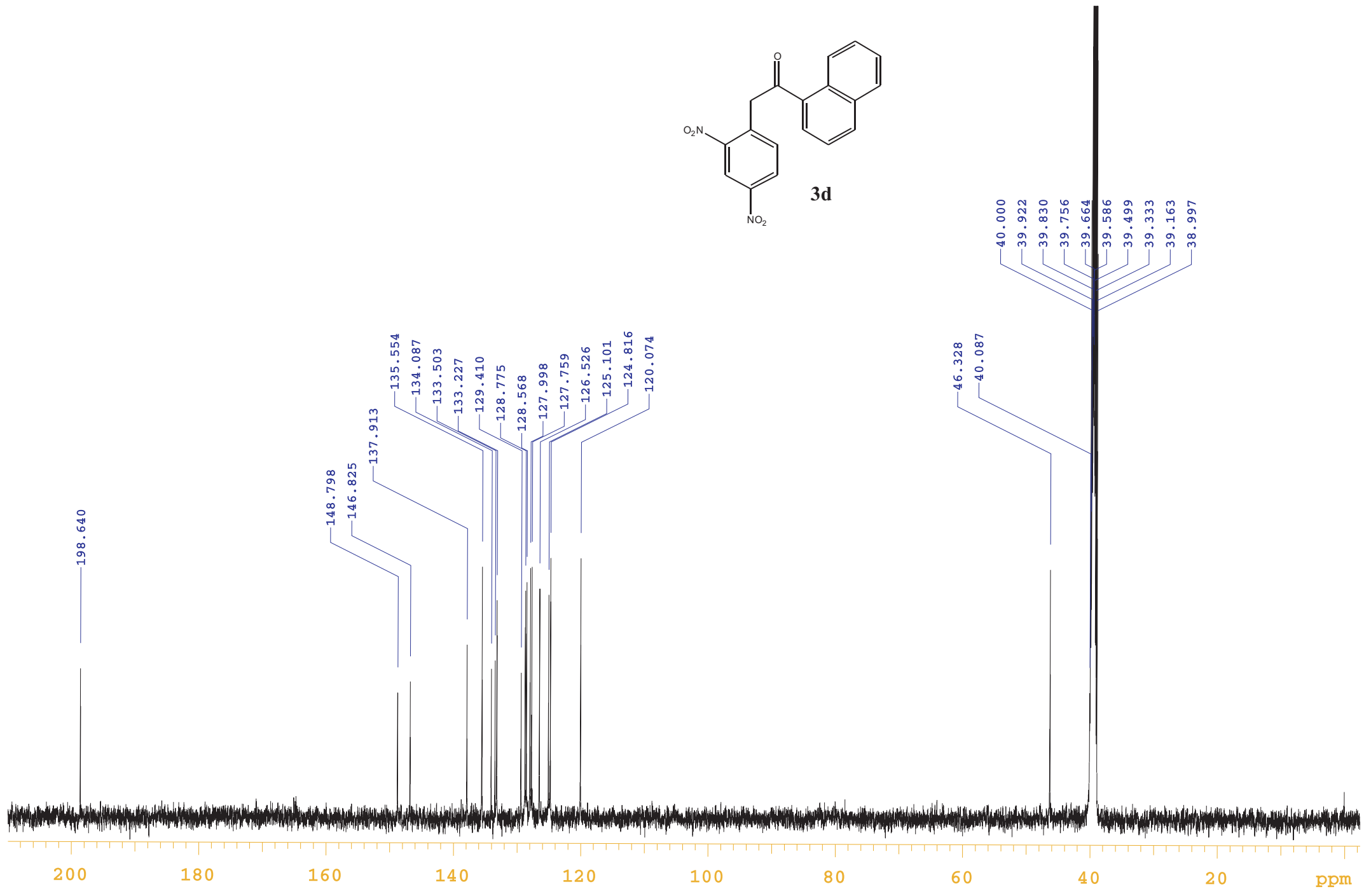
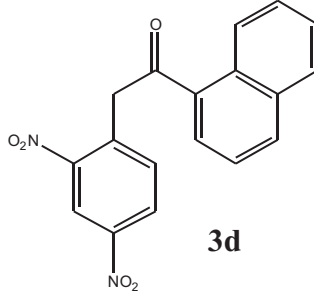
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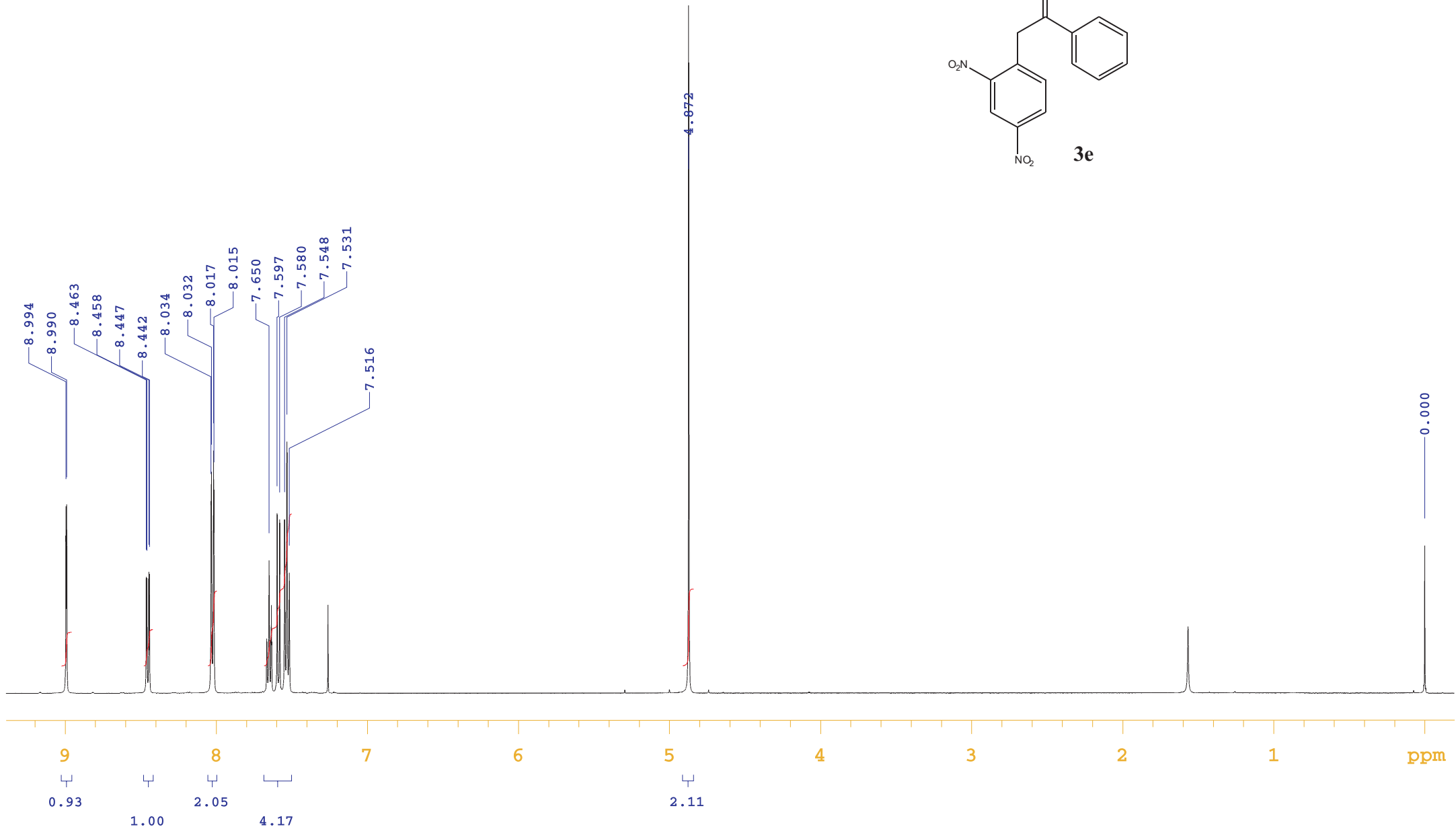
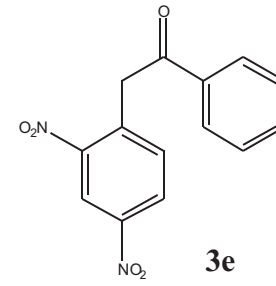
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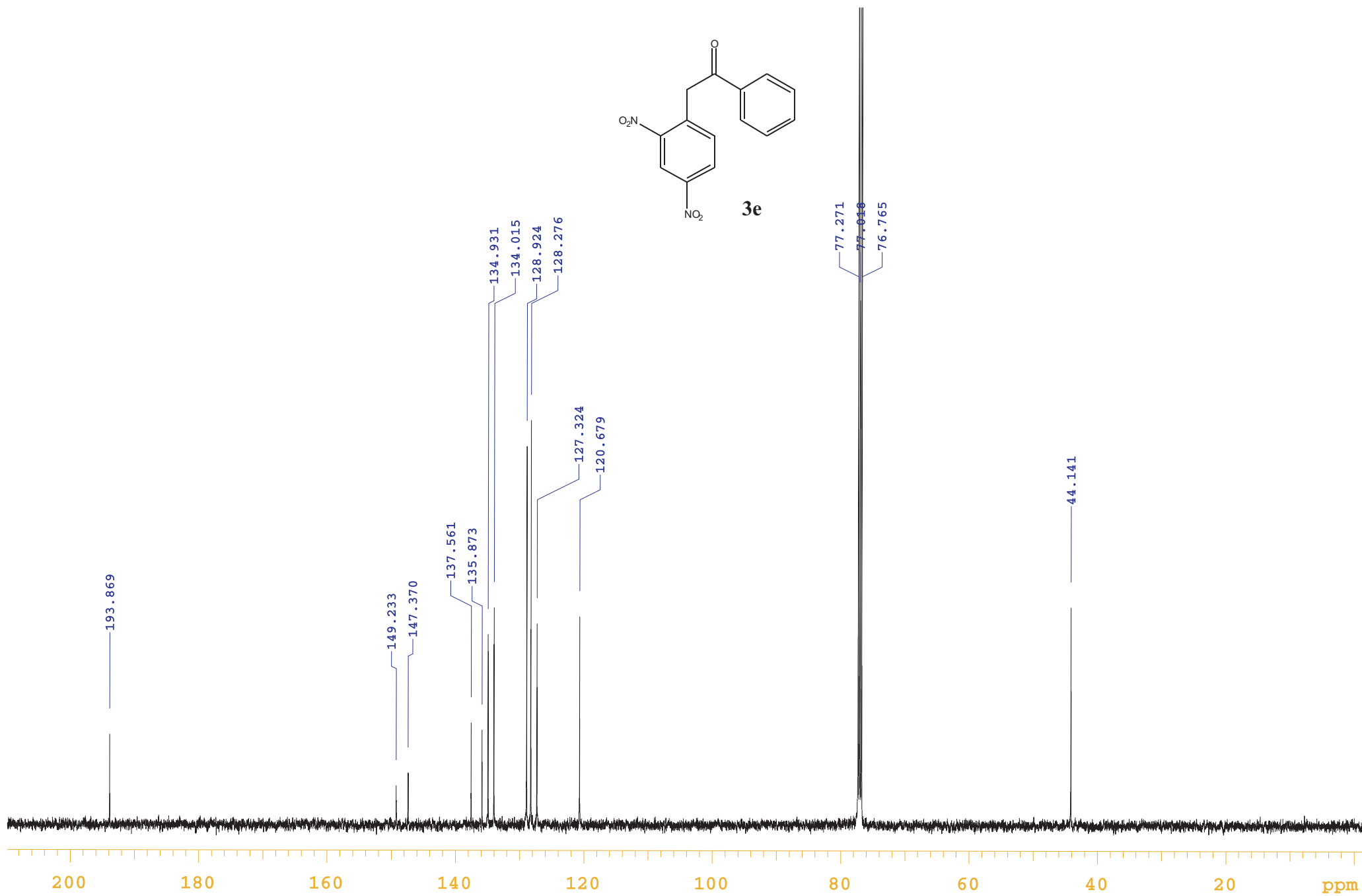
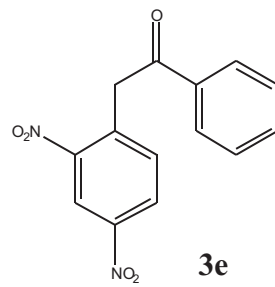


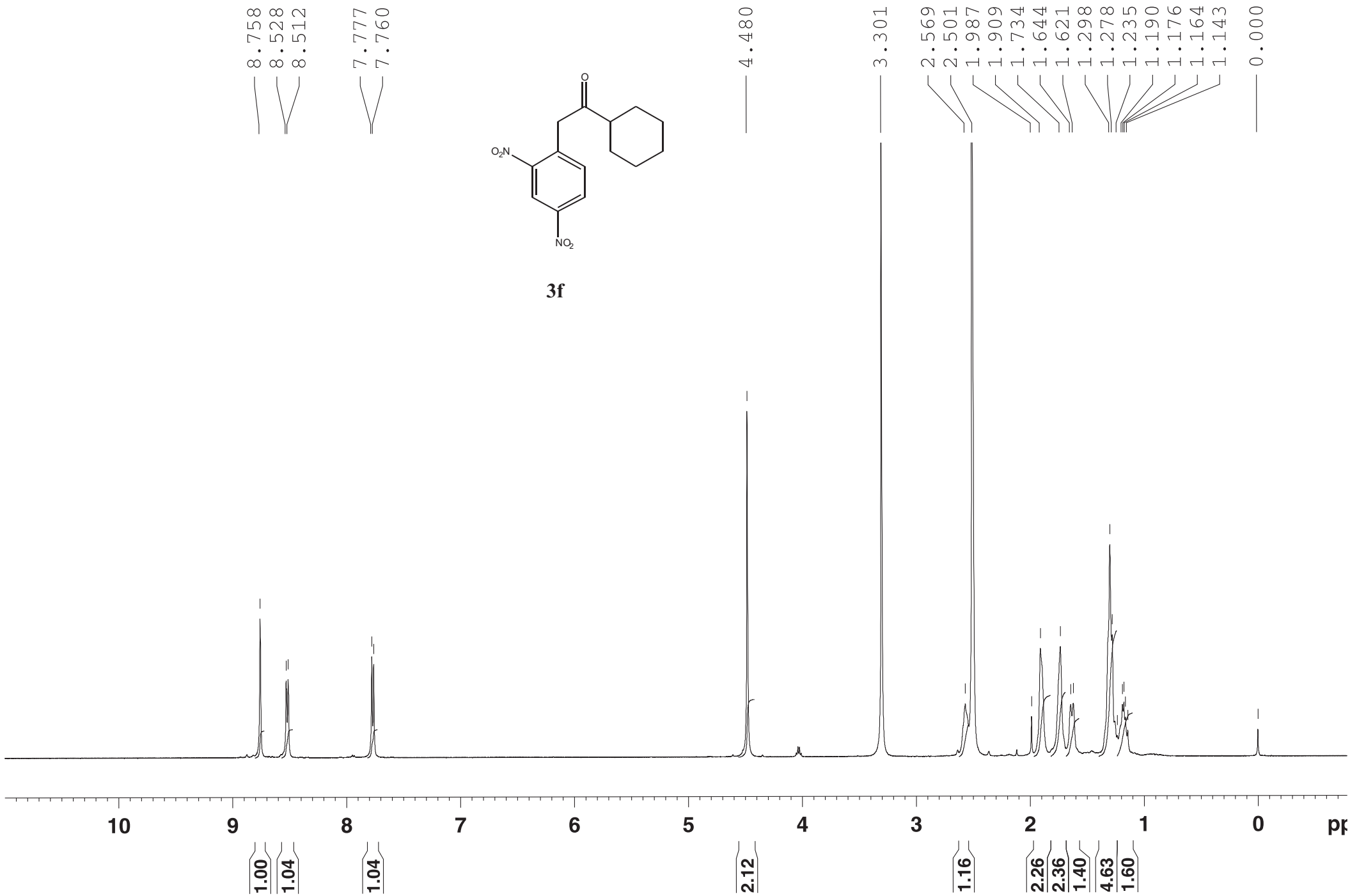


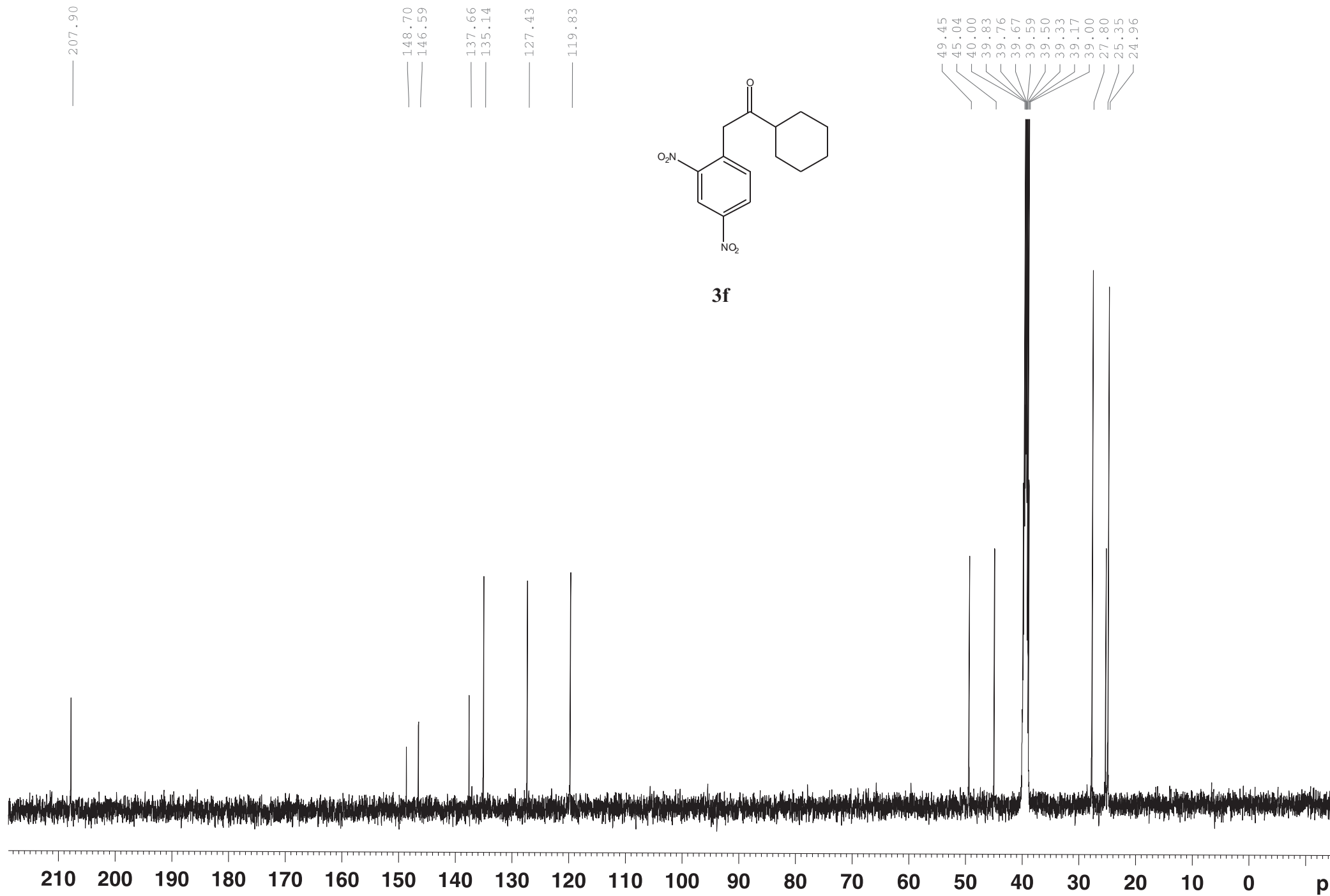






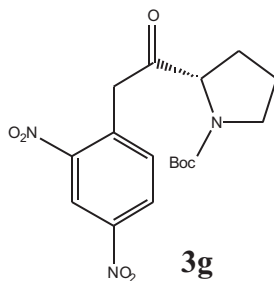






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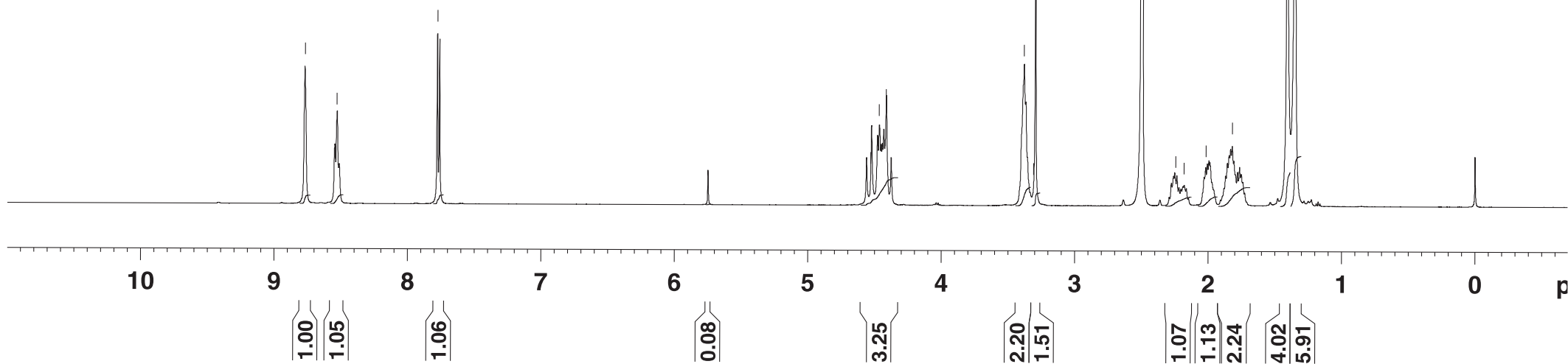


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2.182  
2.017  
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1.417  
1.355



204.41

148.93

136.72

136.42

135.12

134.86

127.58

119.94

79.06

64.56

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39.67

39.50

39.33

39.17

39.00

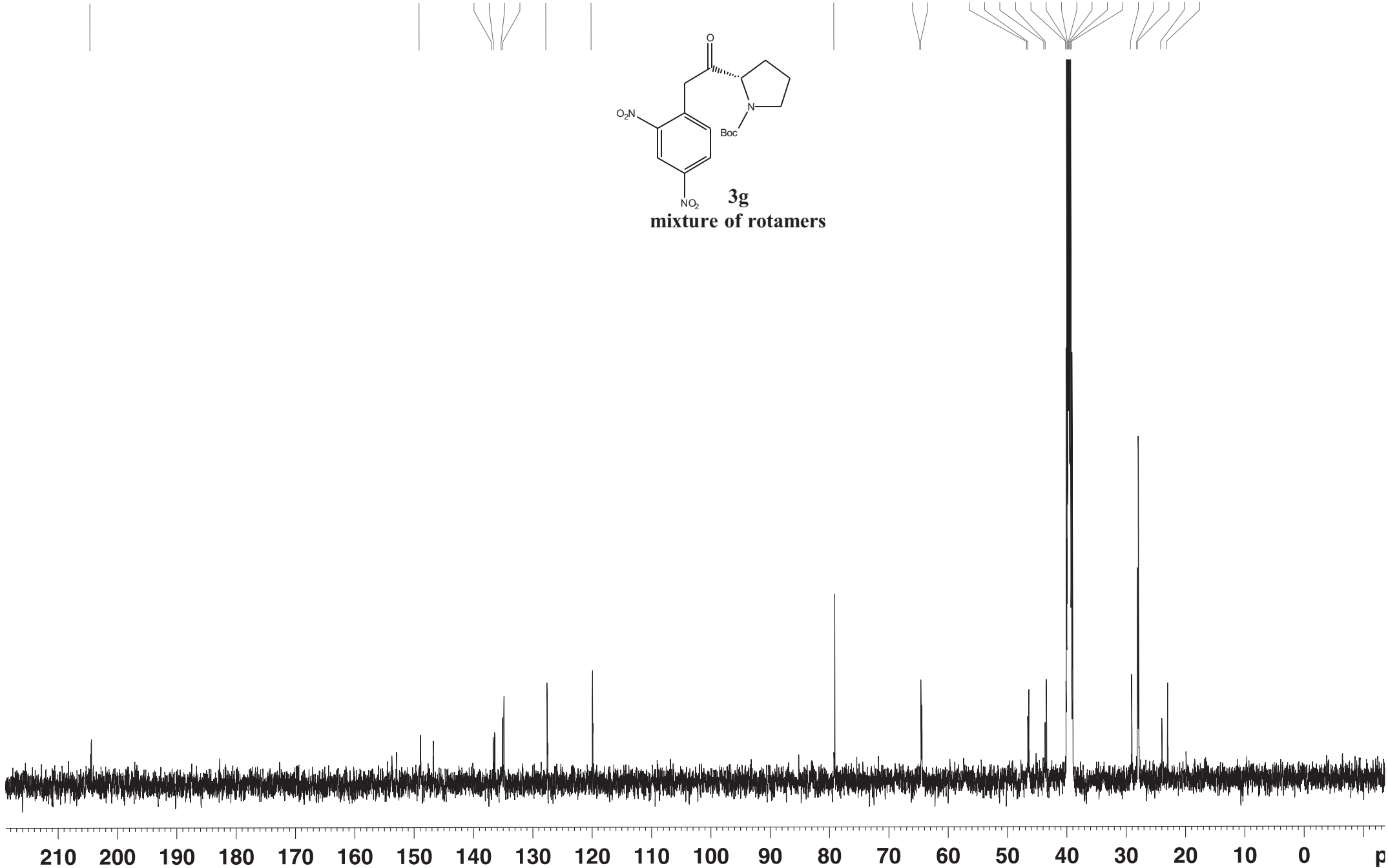
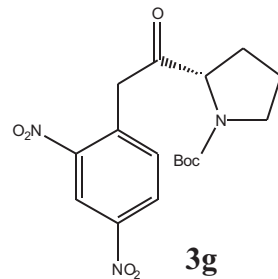
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23.95

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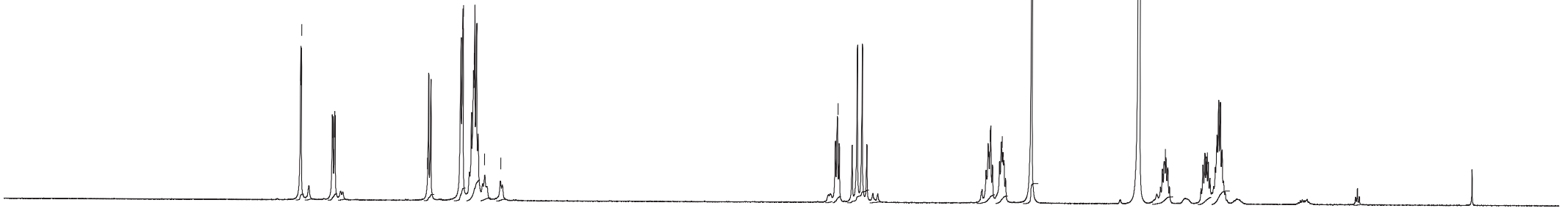
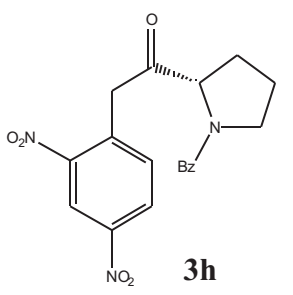
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3.308

2.504  
2.300  
1.985  
1.893



10

9

8

7

6

5

4

3

2

1

0

1.00  
0.14  
1.05  
0.14

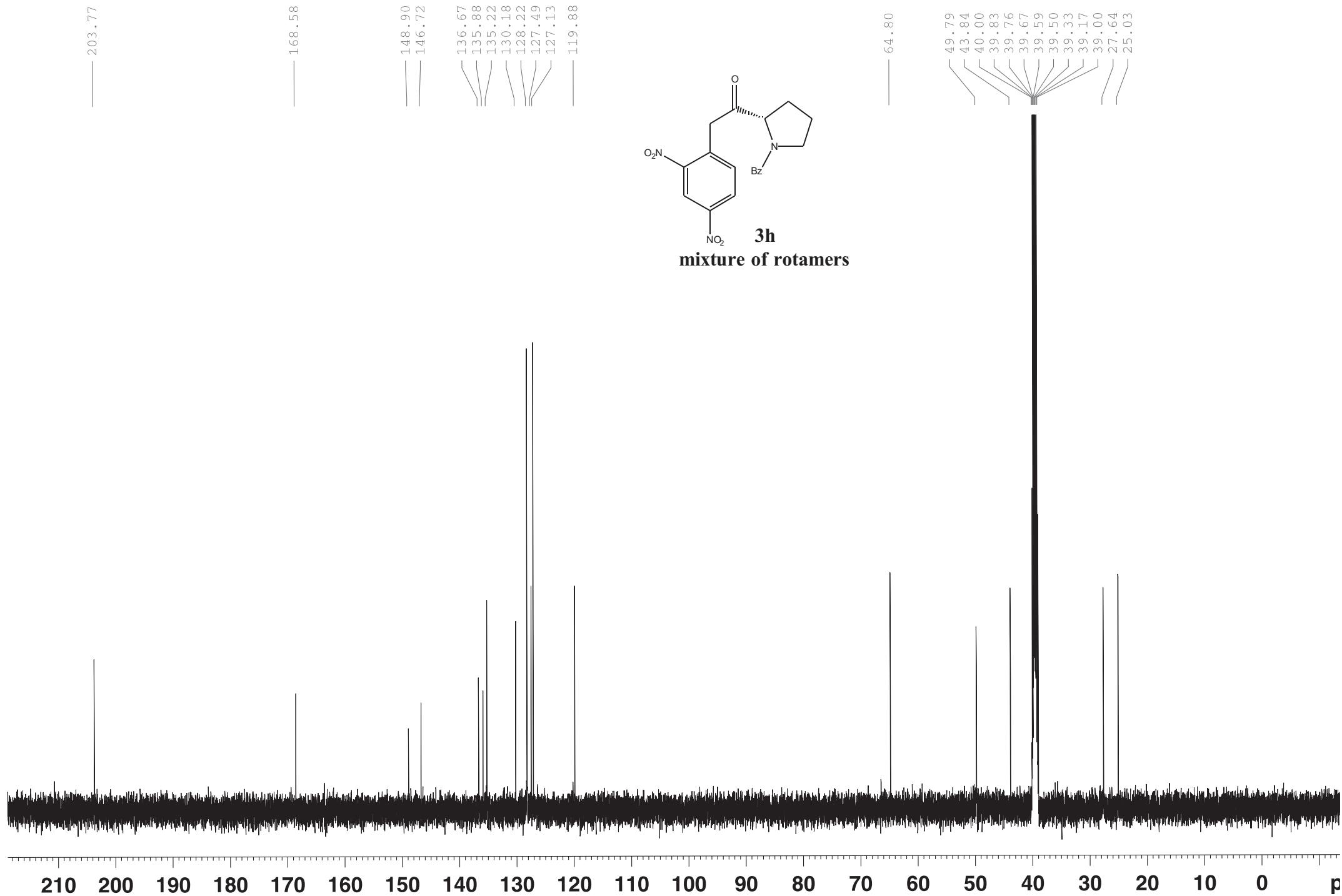
1.05  
2.16  
3.49  
0.49  
0.29

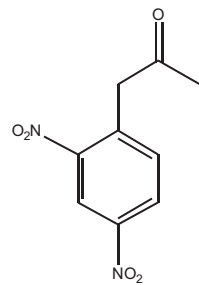
0.16  
1.06  
2.16  
0.17

1.43  
1.25  
3.38

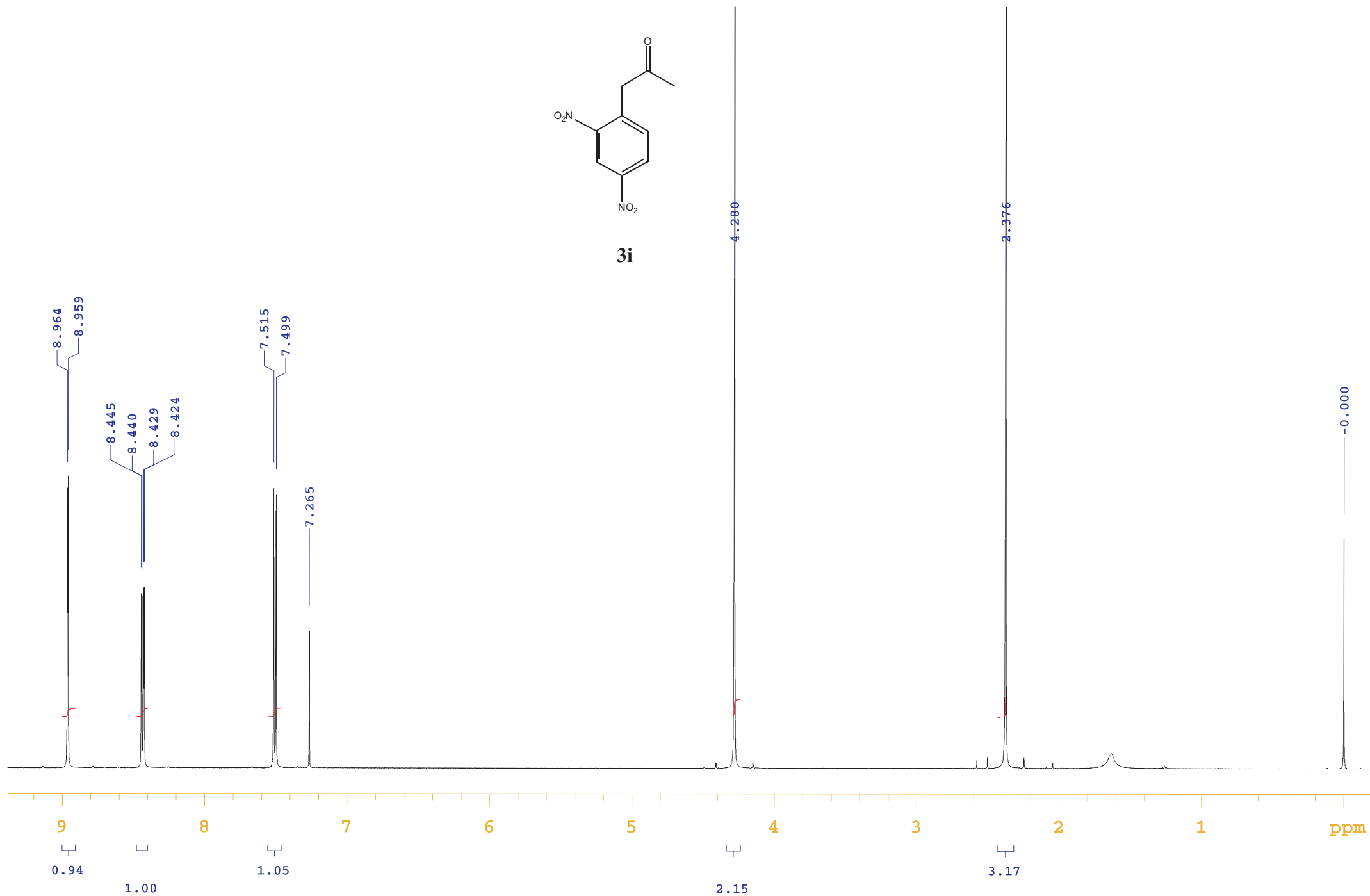
1.28  
1.20  
2.29

0.11

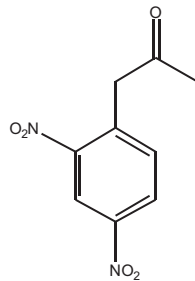




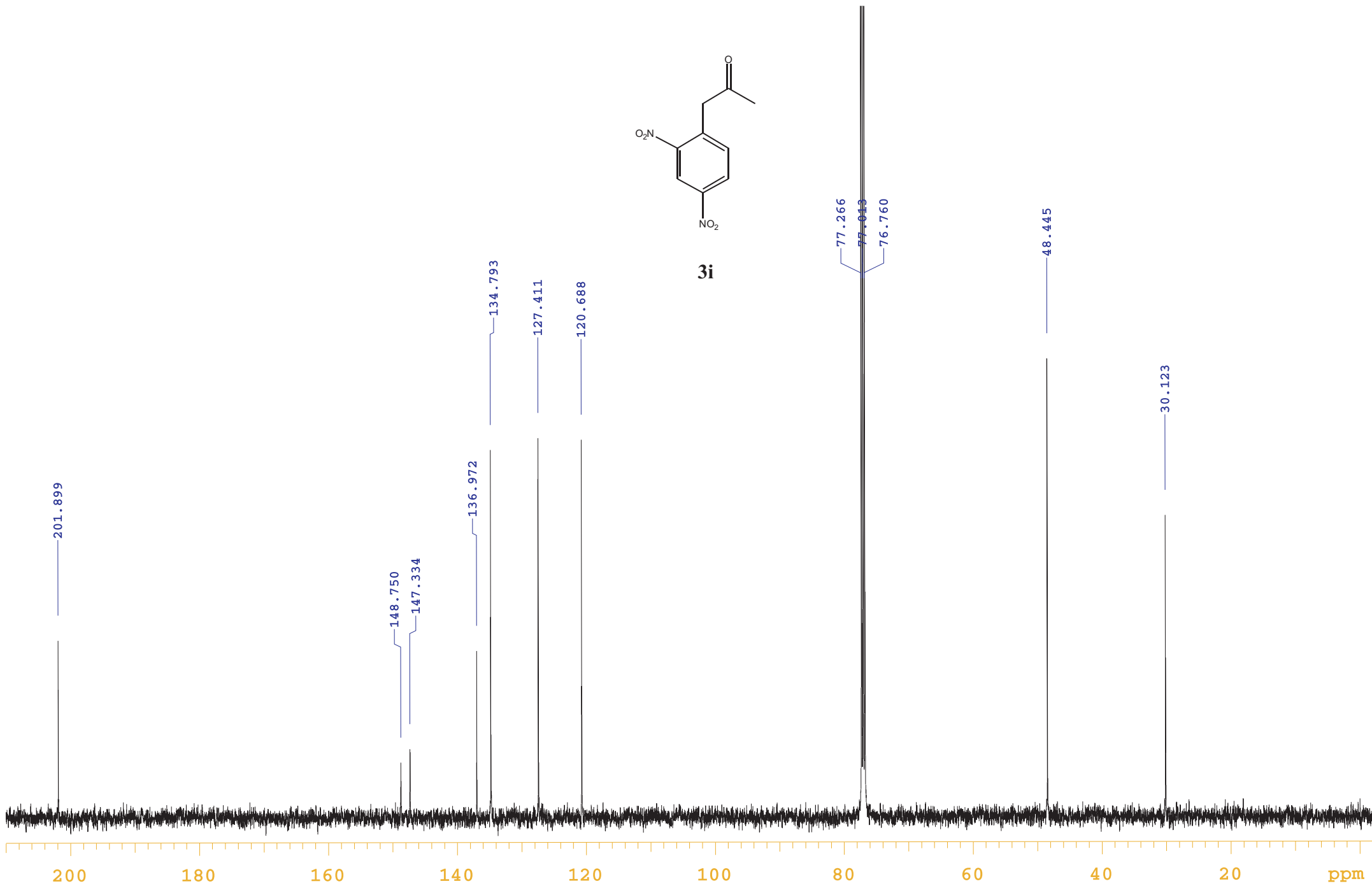
3i

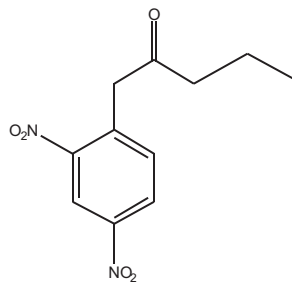




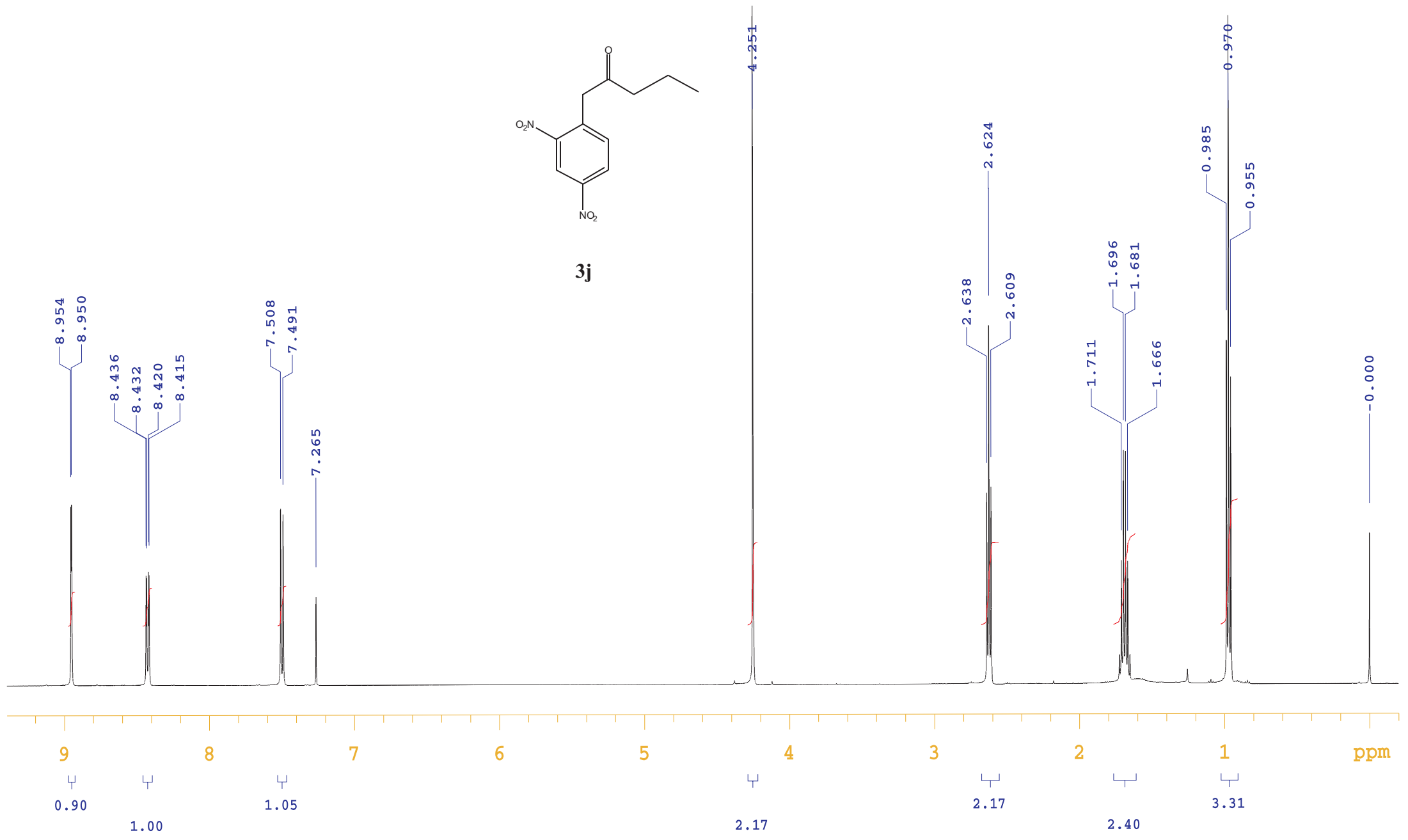


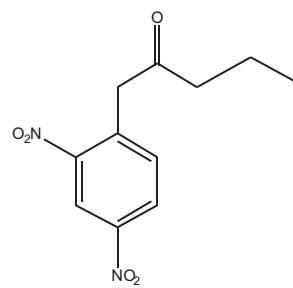
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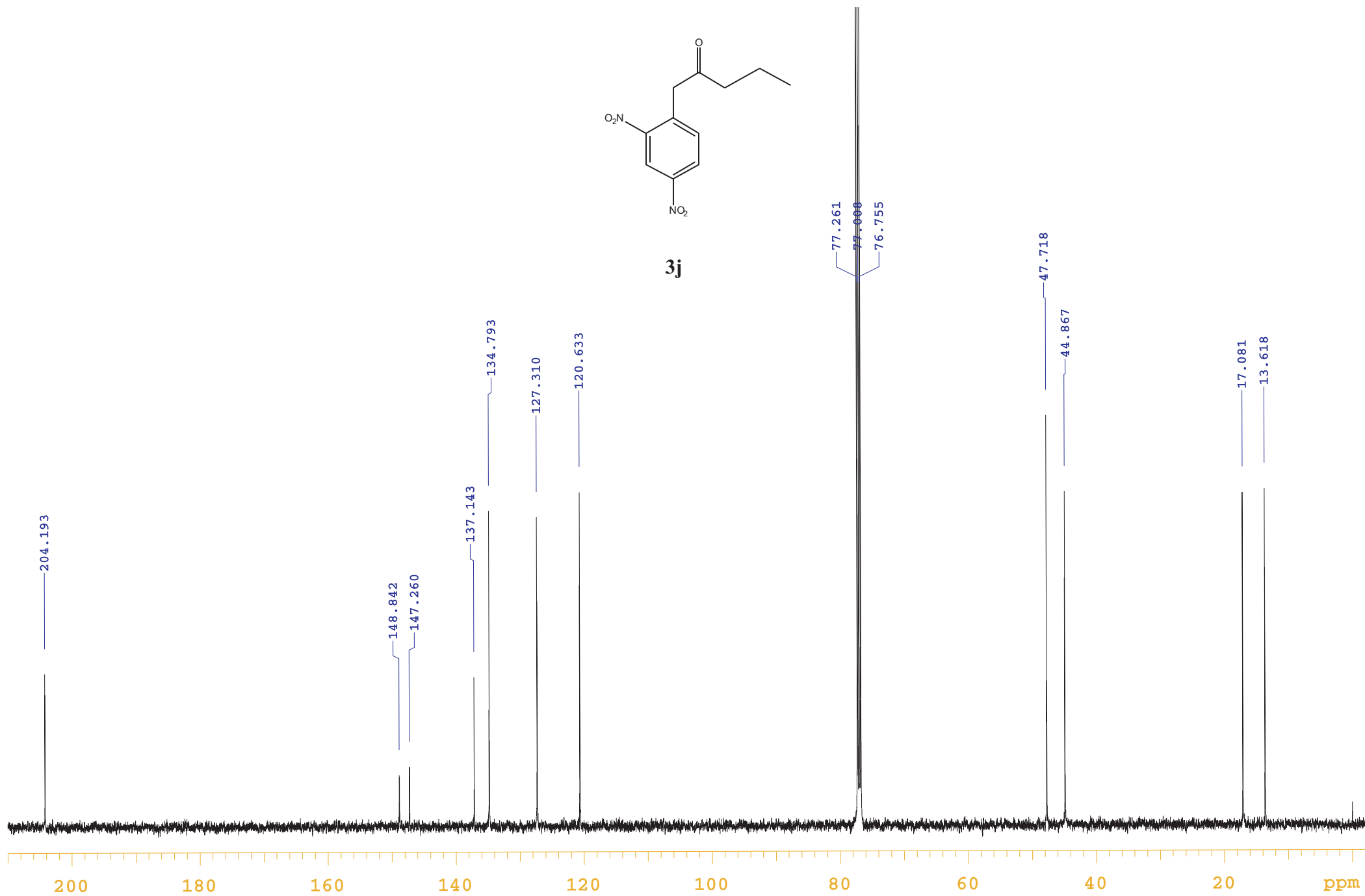


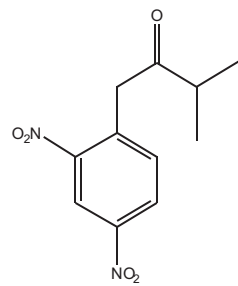
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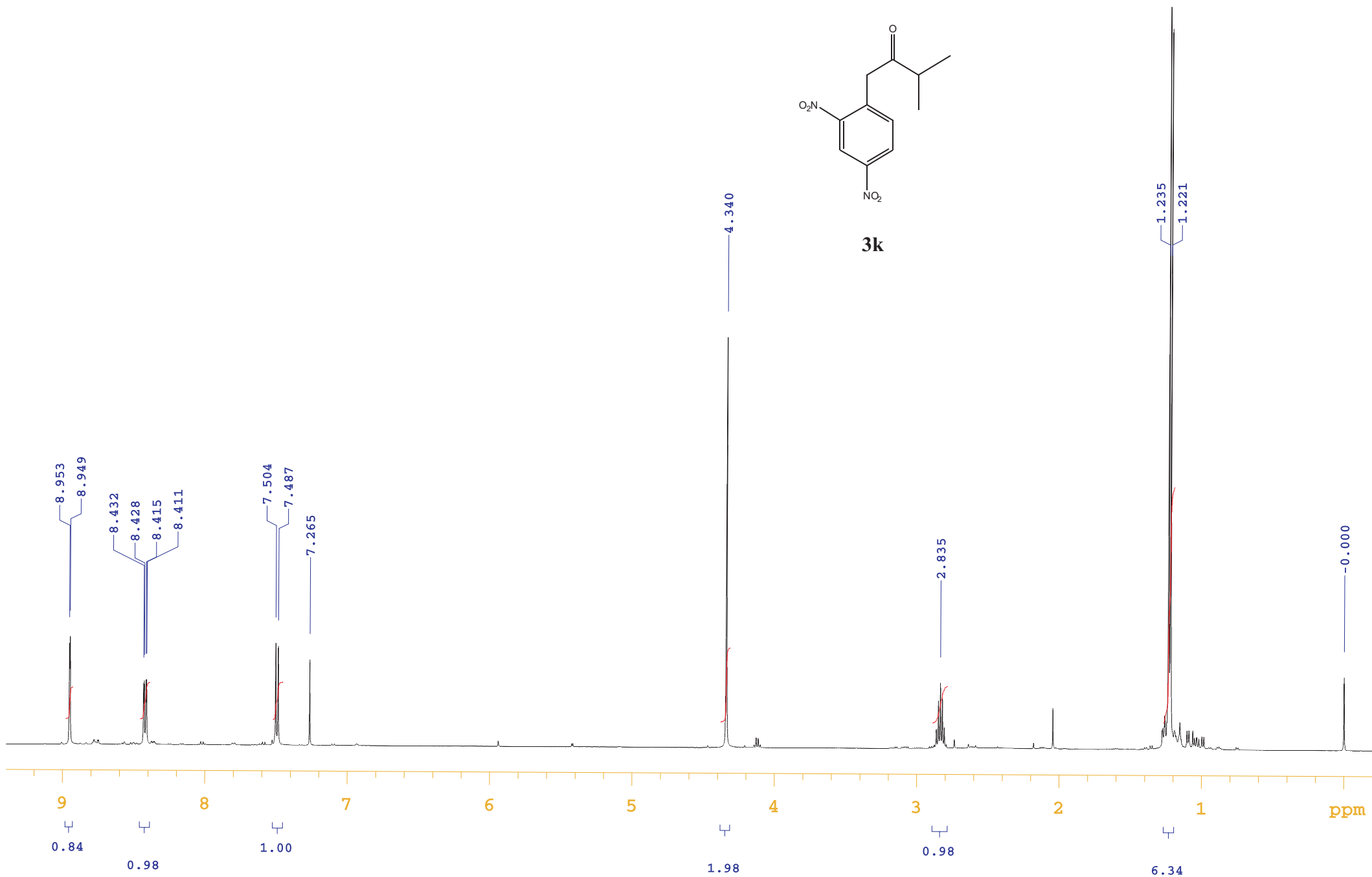


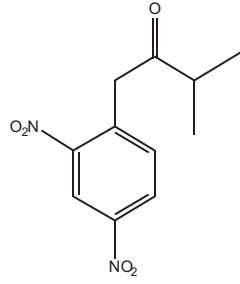
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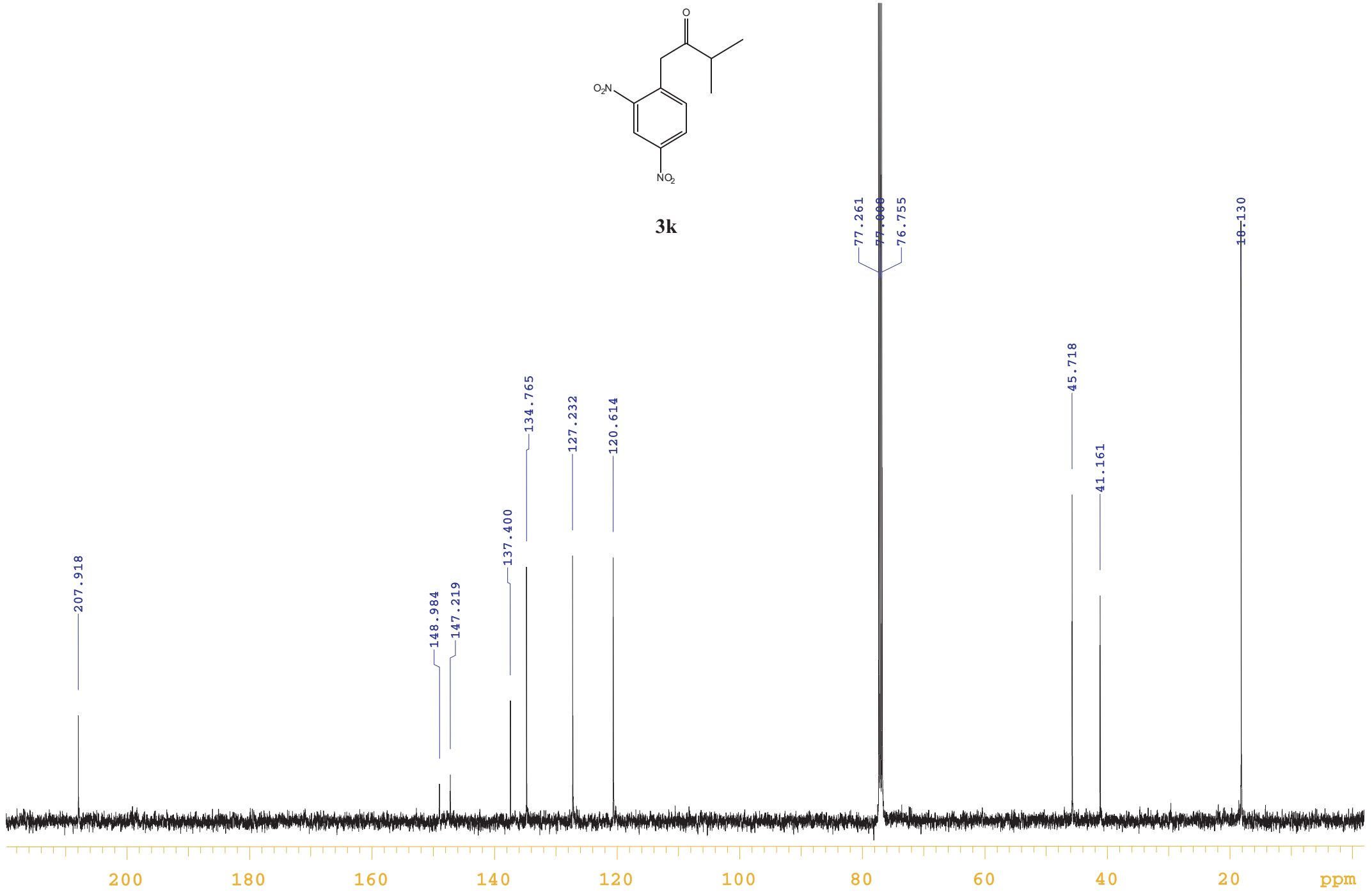


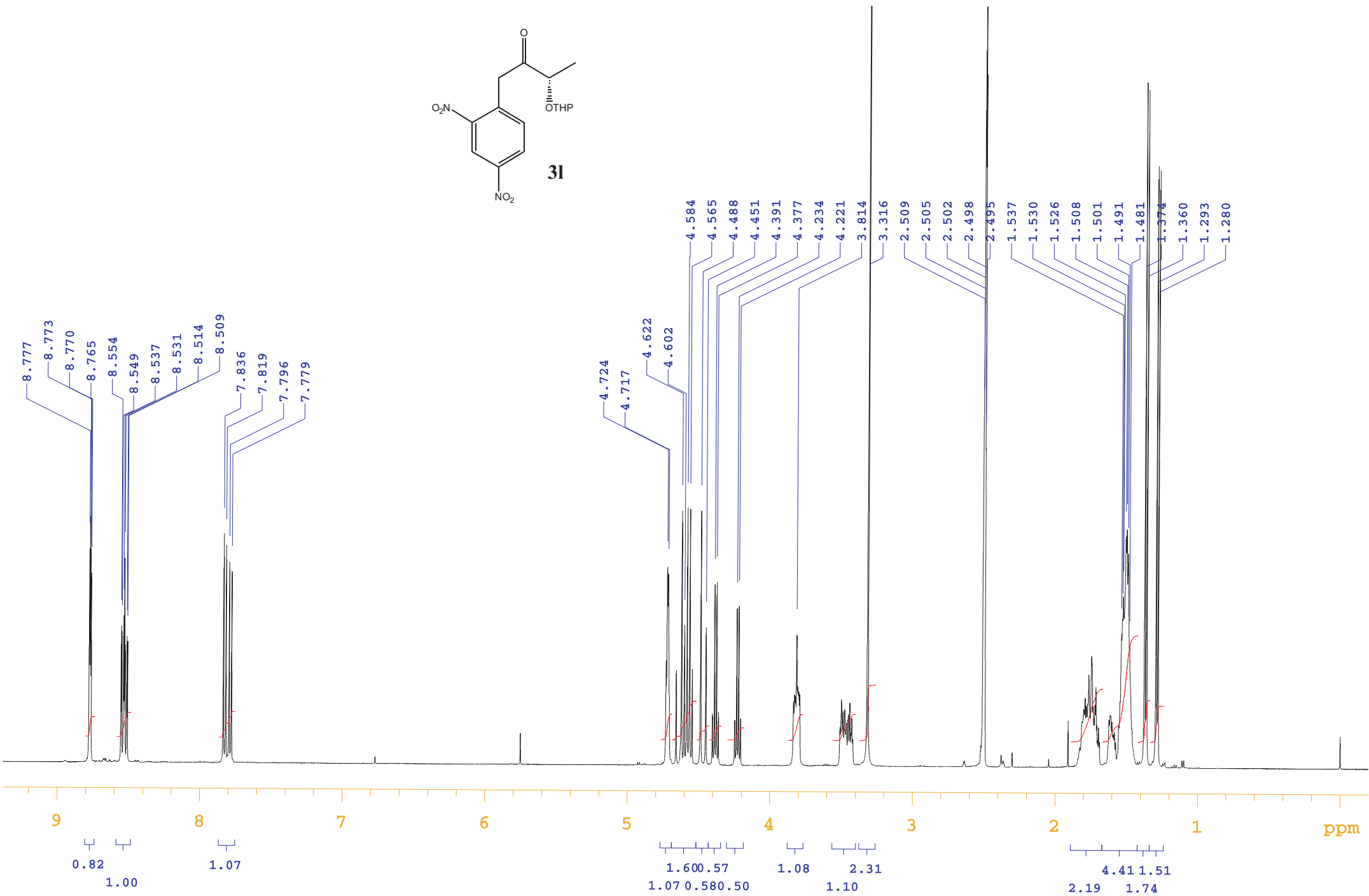
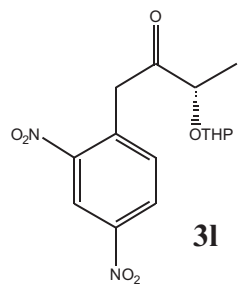
**3k**

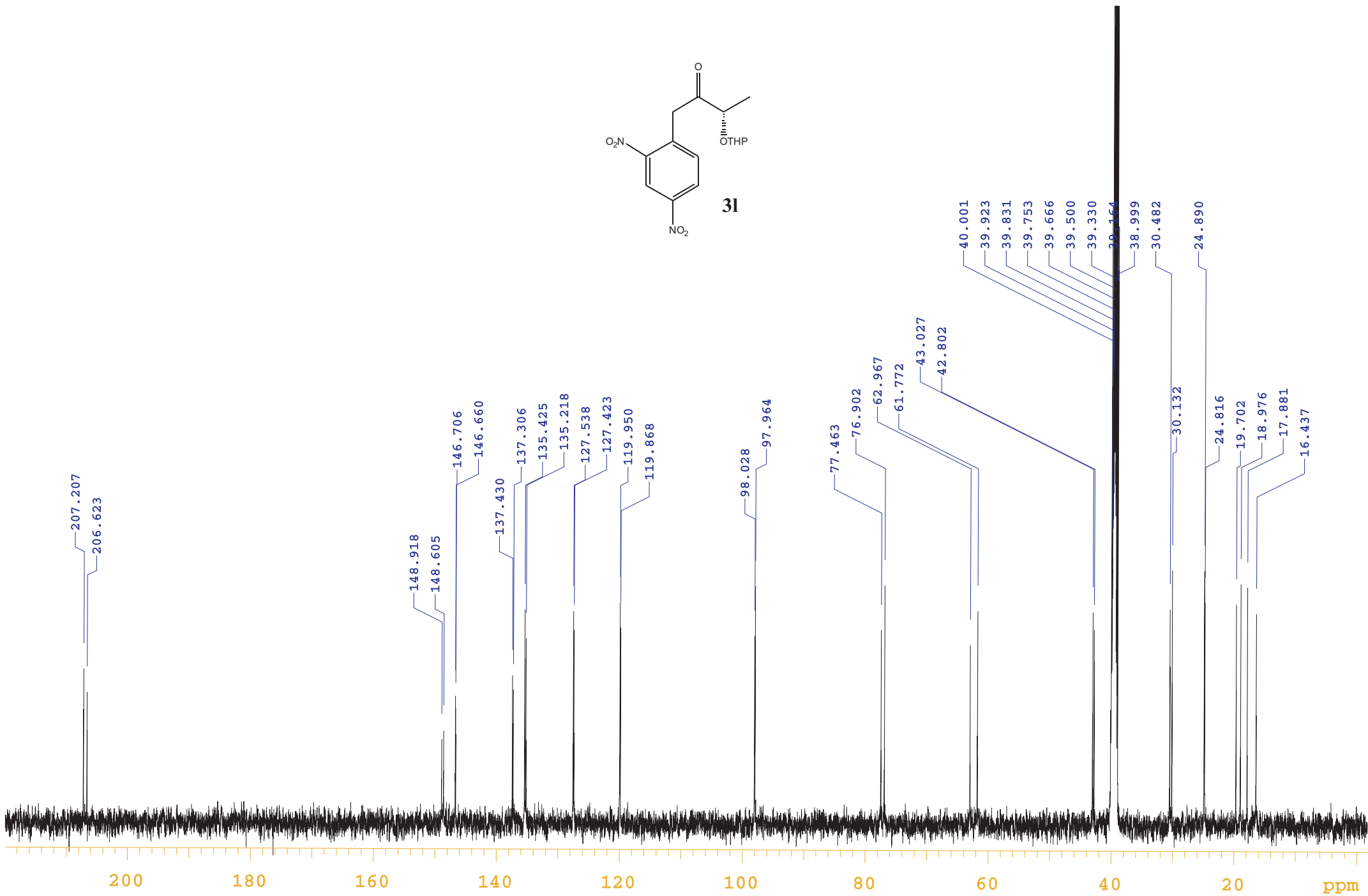
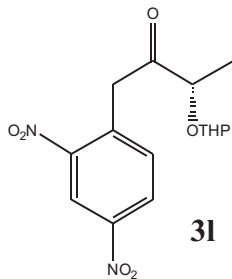


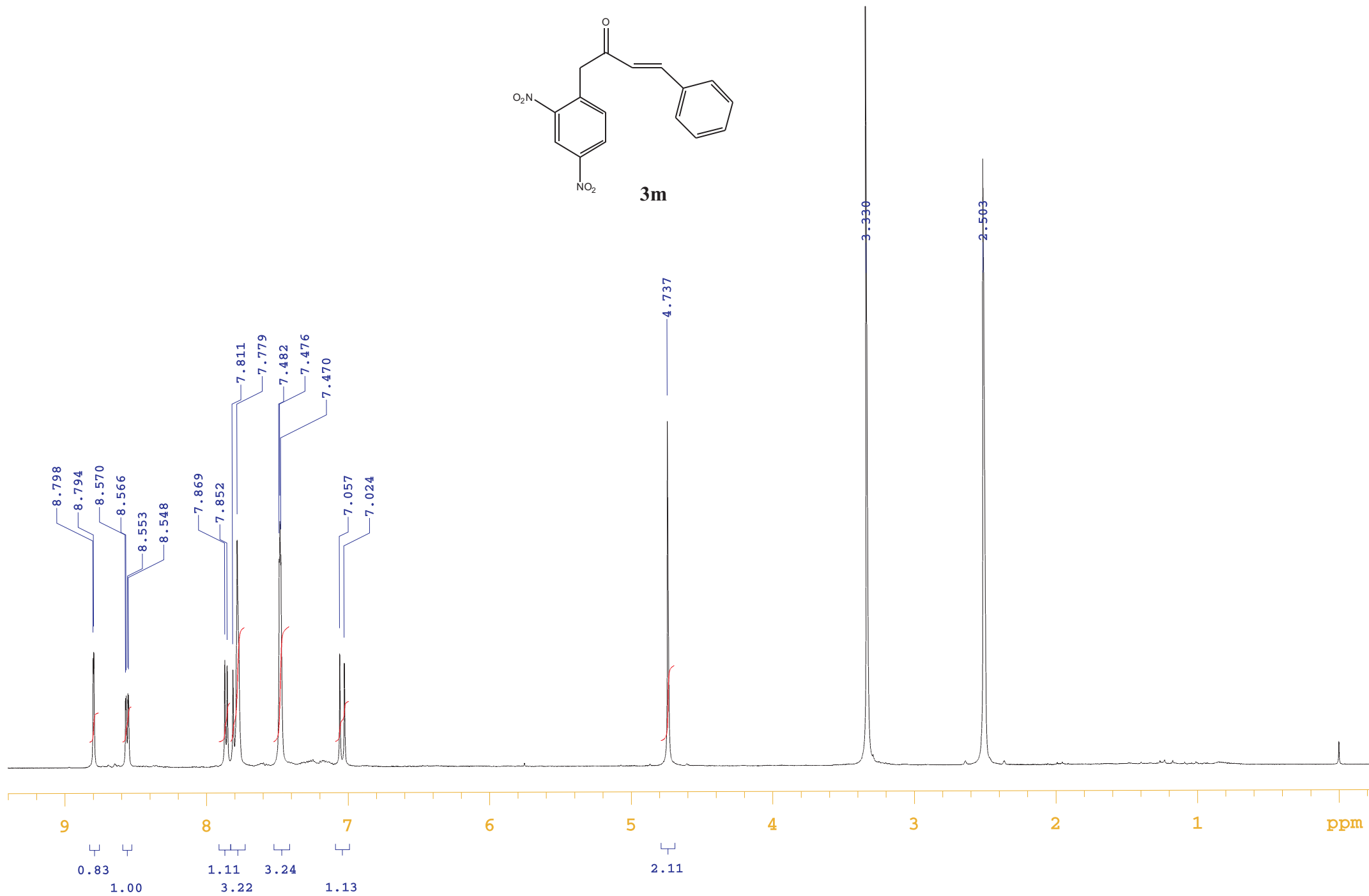
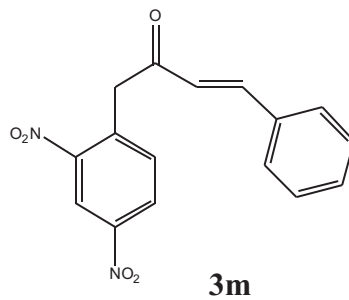


**3k**

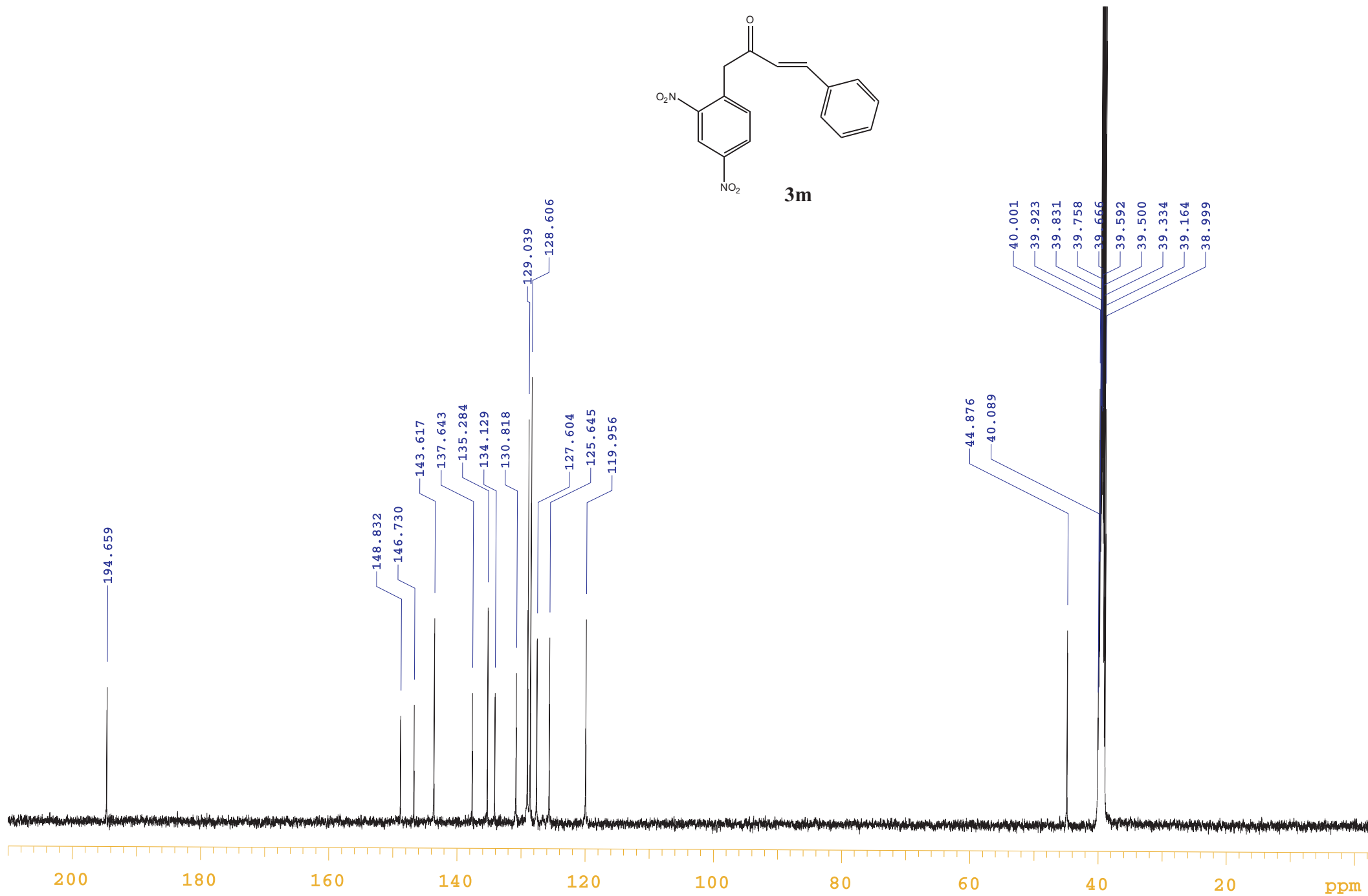
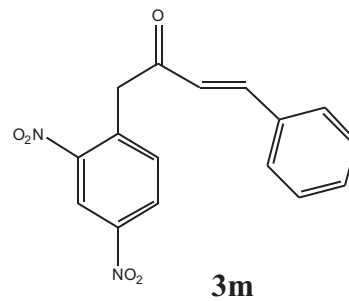












8.845  
8.618  
8.602  
8.265  
7.934  
7.918

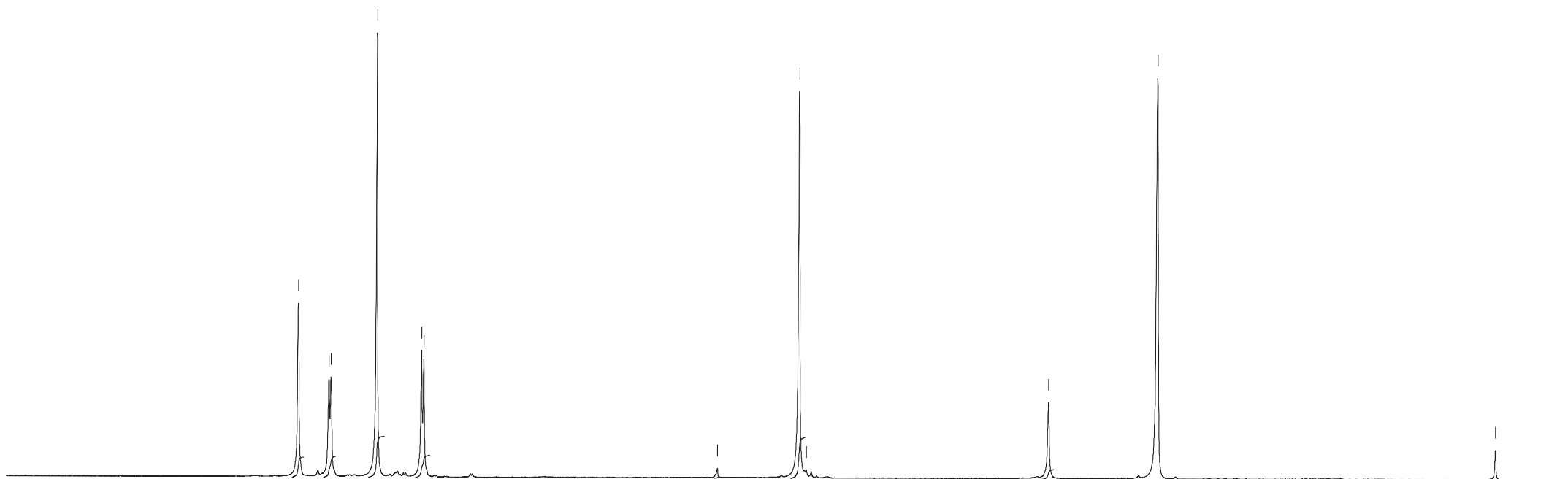
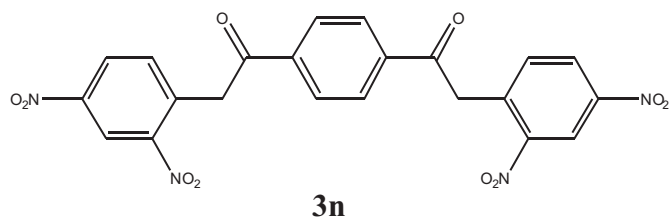
5.748

5.146  
5.091

3.302

2.501

0.000



10

9

8

7

6

5

4

3

2

1

0

1.00

1.05

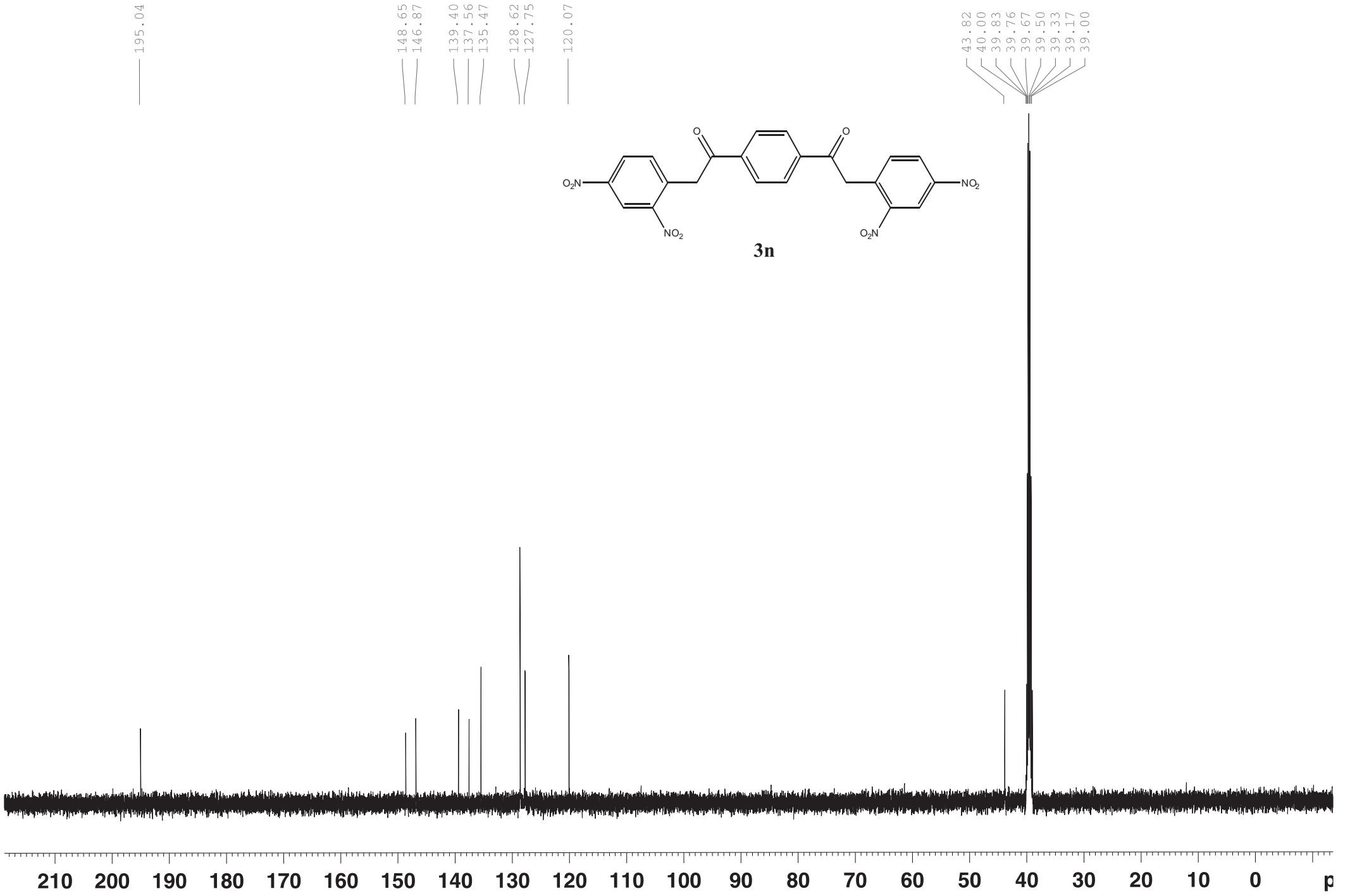
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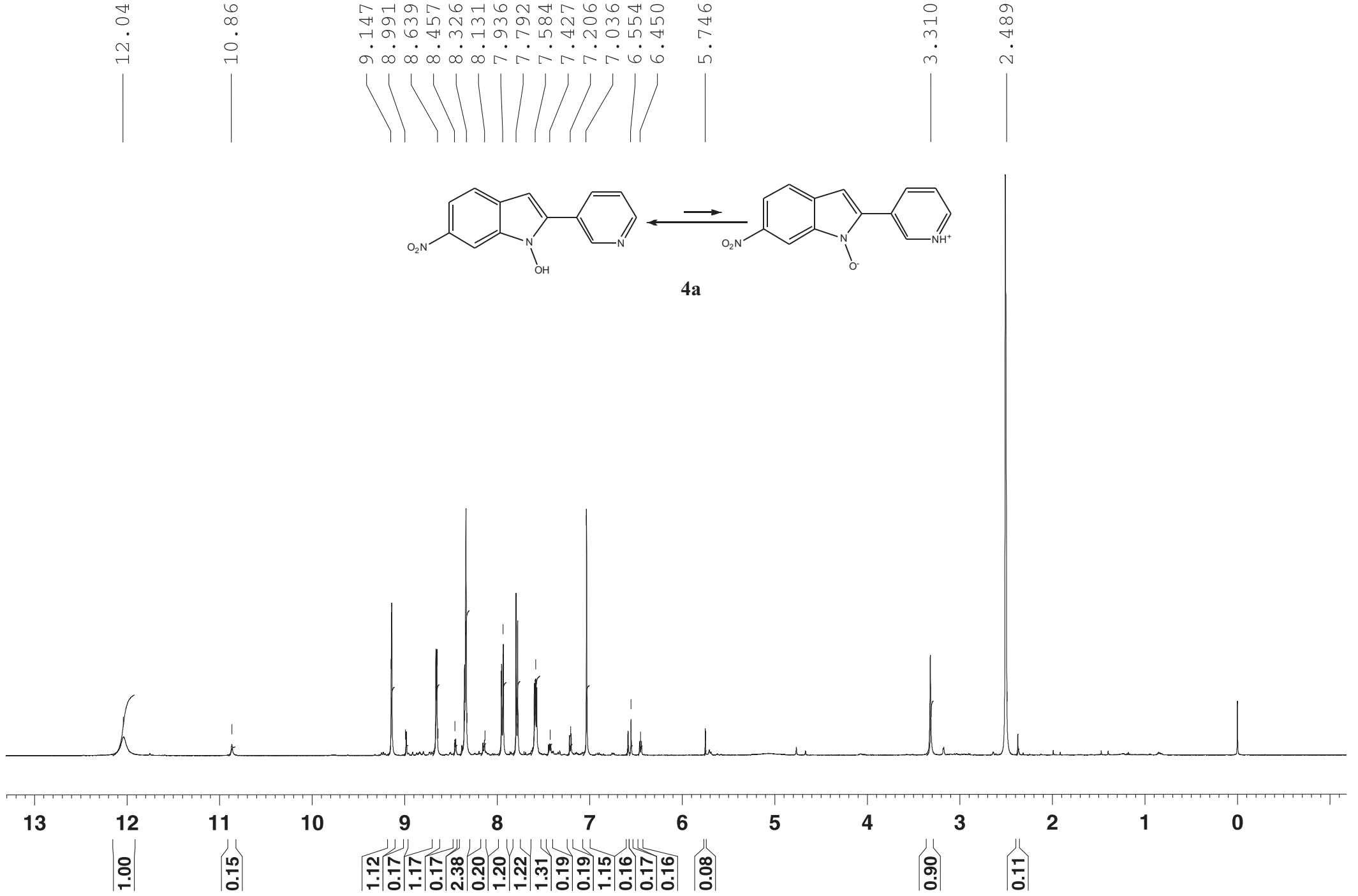
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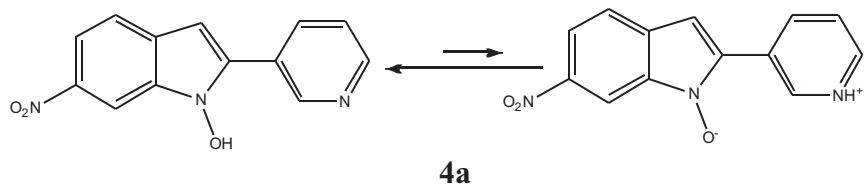
0.04

2.05

0.47

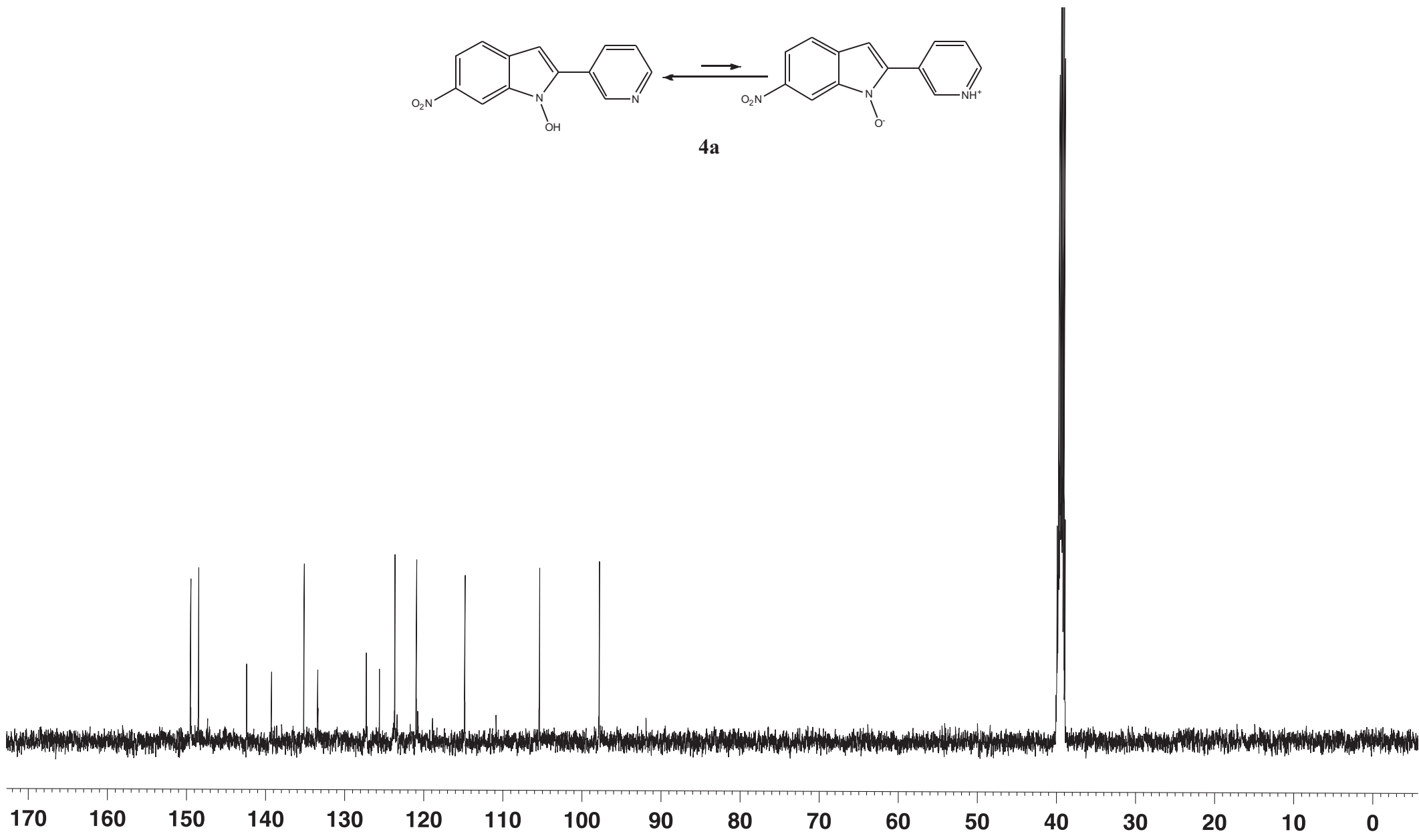


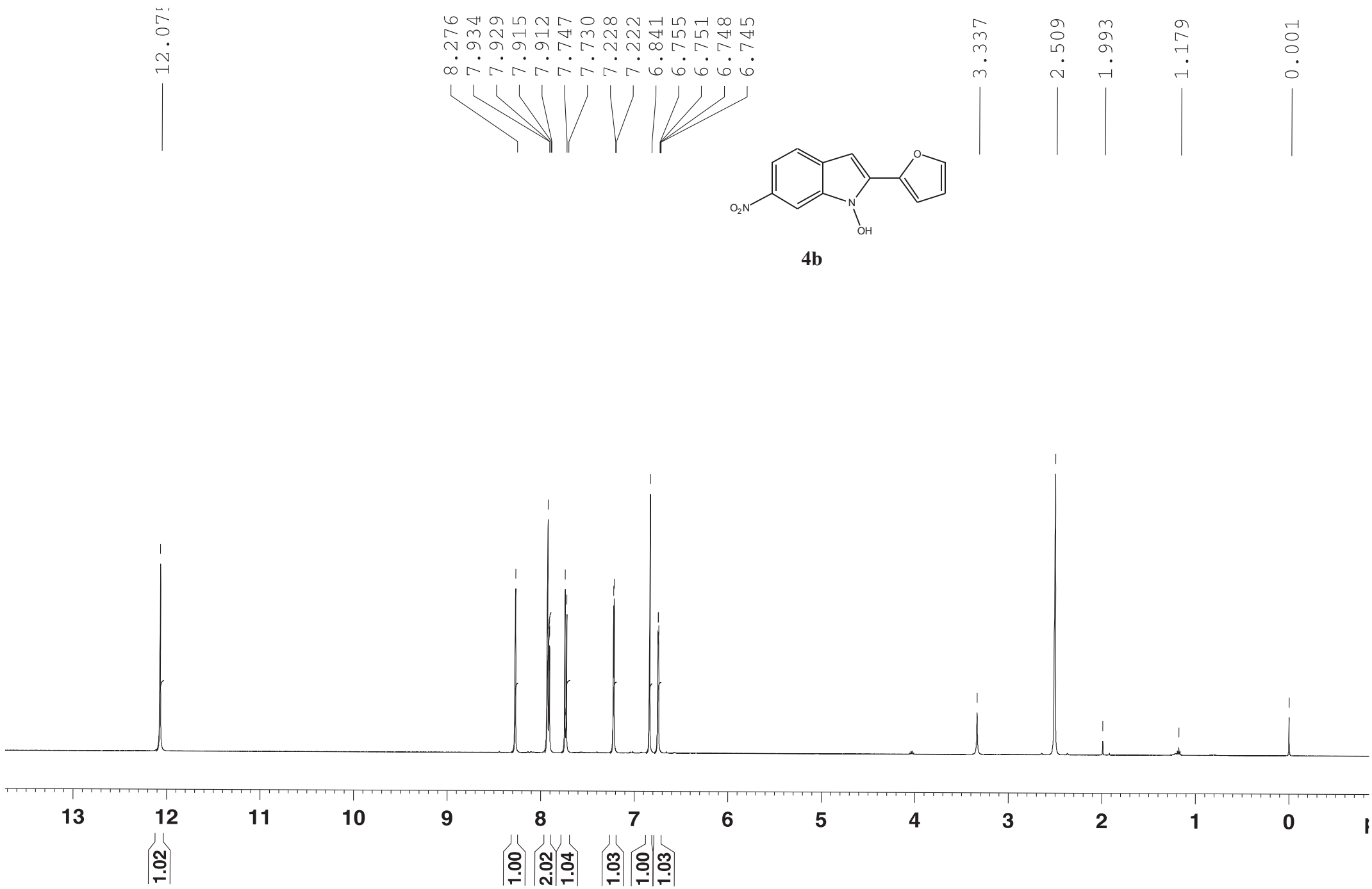


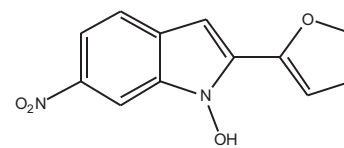


149.56  
148.55  
142.46  
139.31  
135.22  
133.46  
133.41  
127.33  
125.68  
123.74  
123.43  
121.01  
114.88  
105.44  
97.88

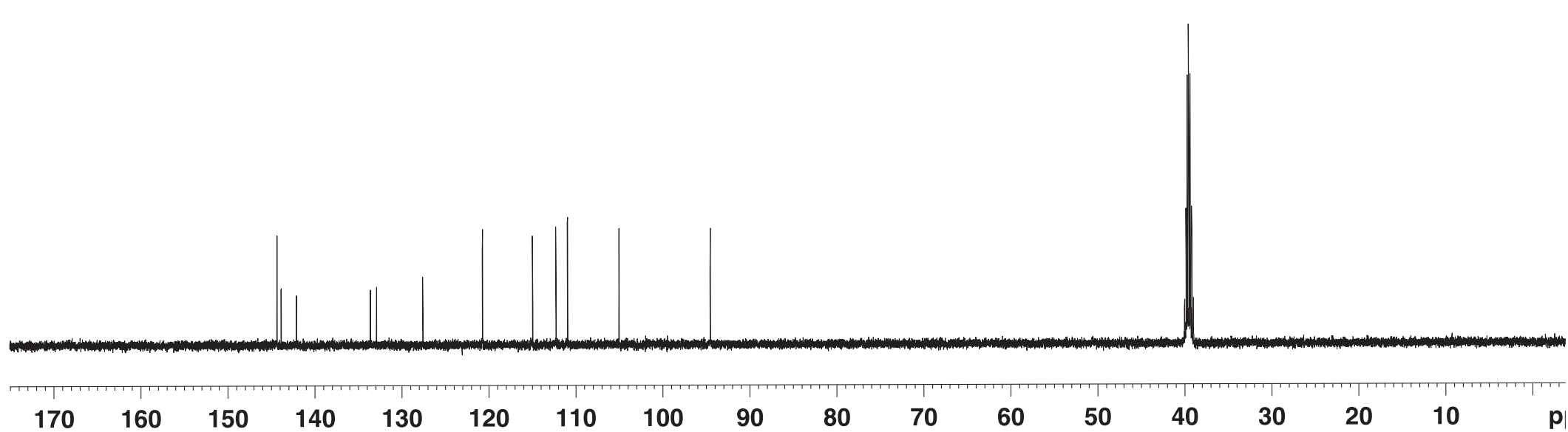
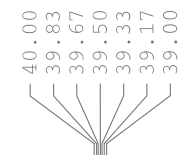
40.00  
39.83  
39.67  
39.50  
39.33  
39.17  
39.00

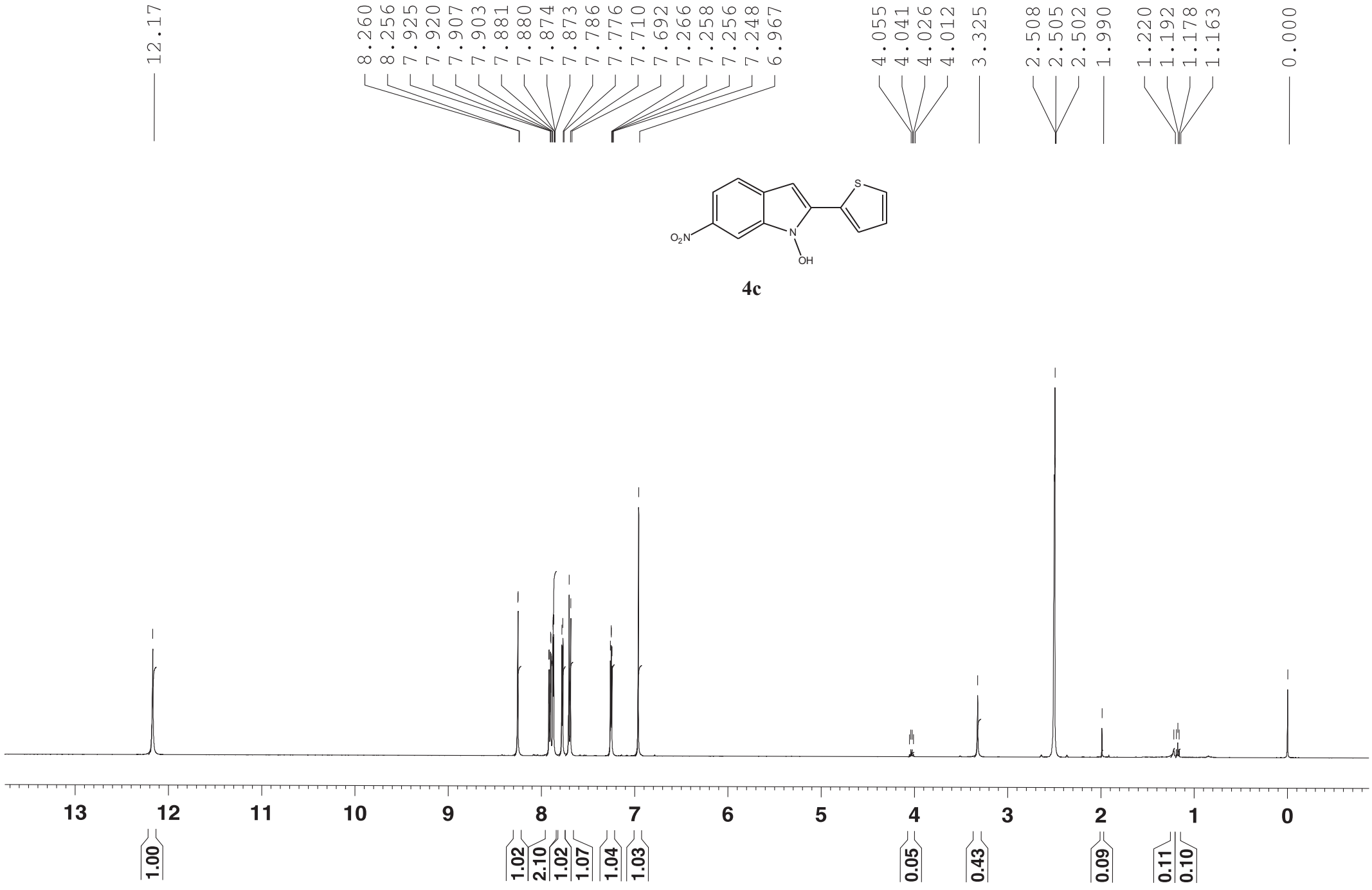




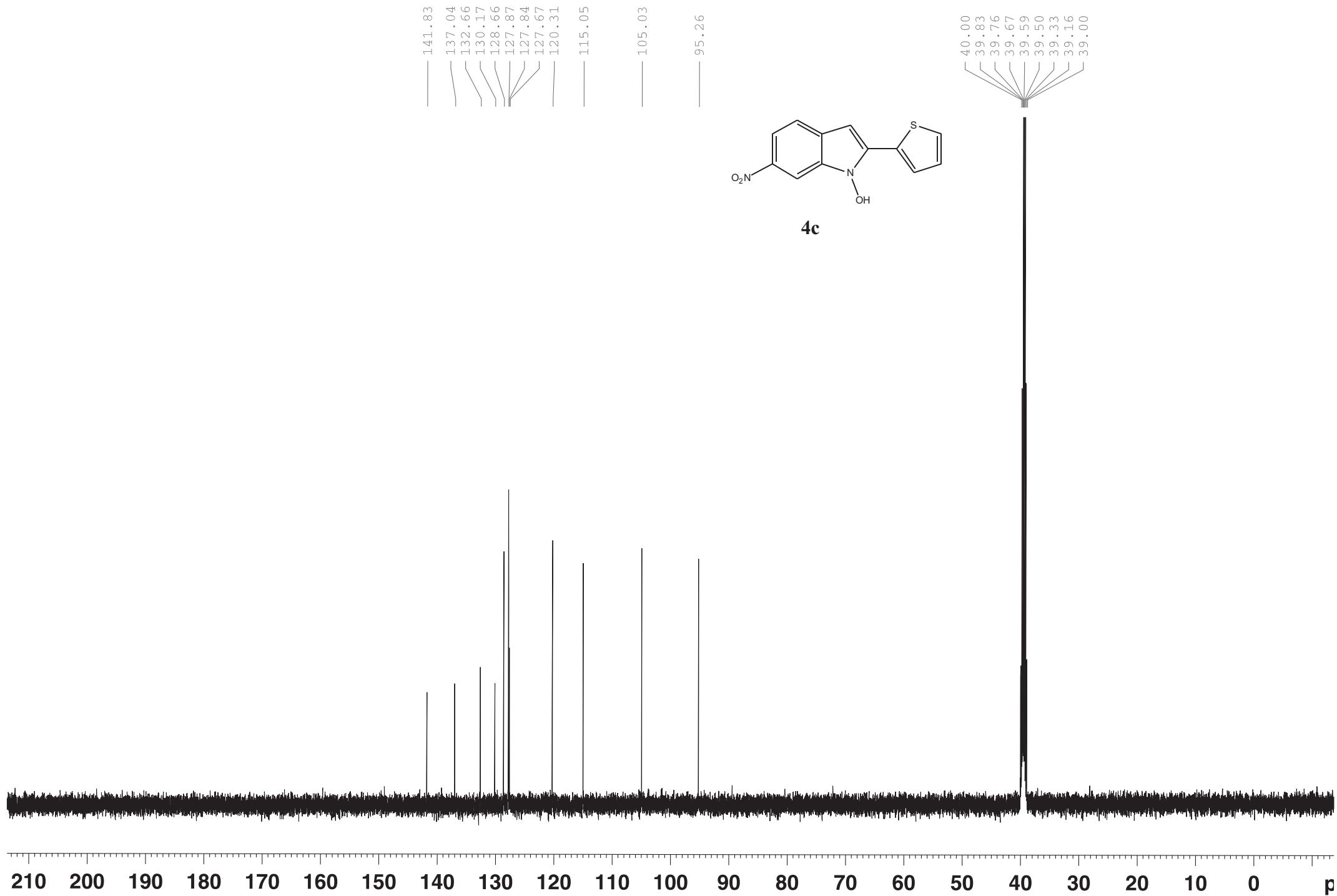


**4b**

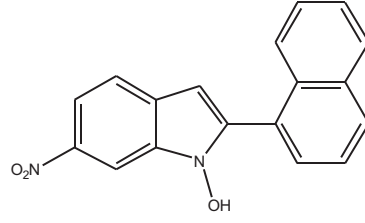




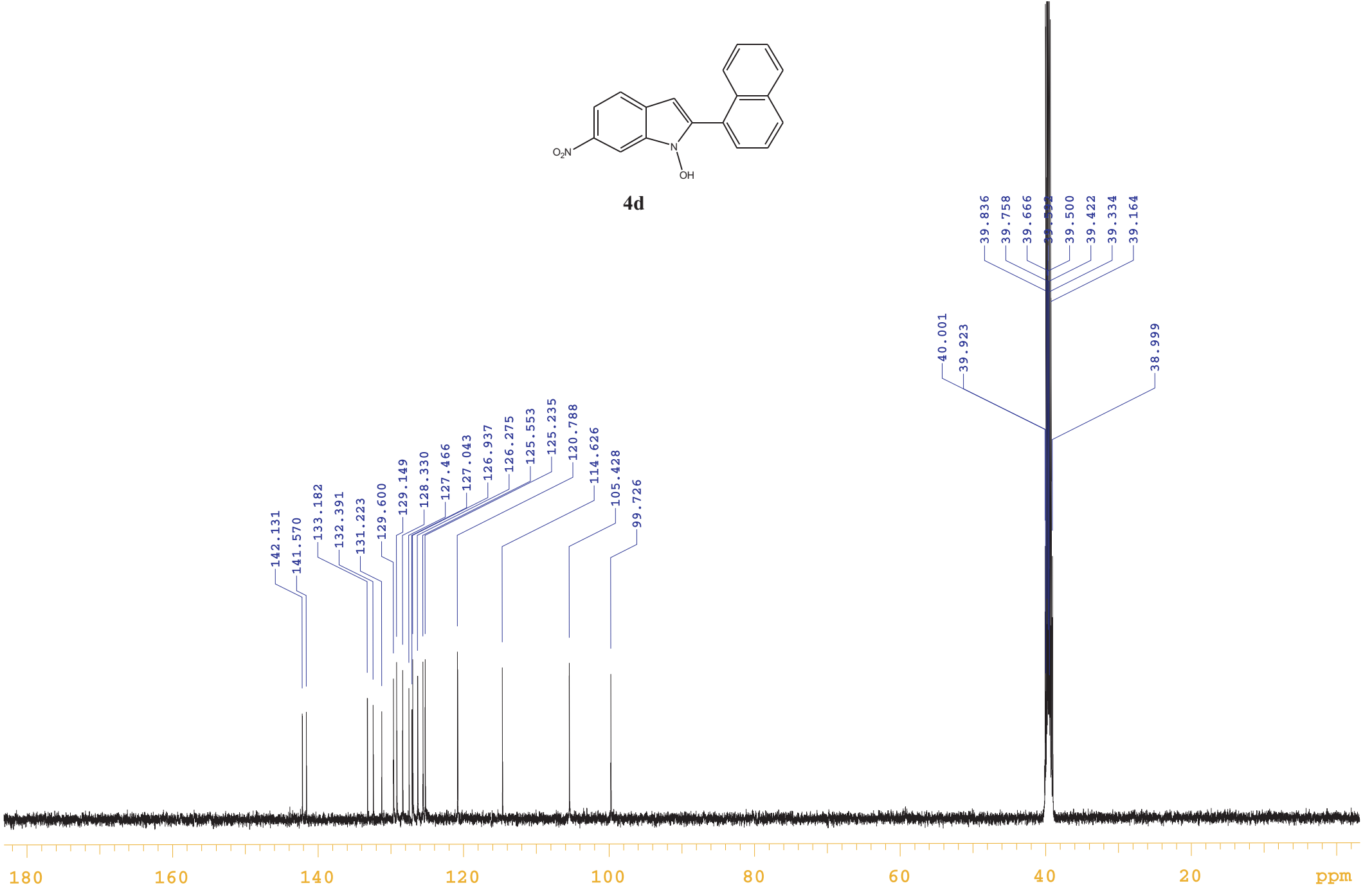


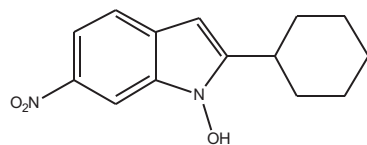




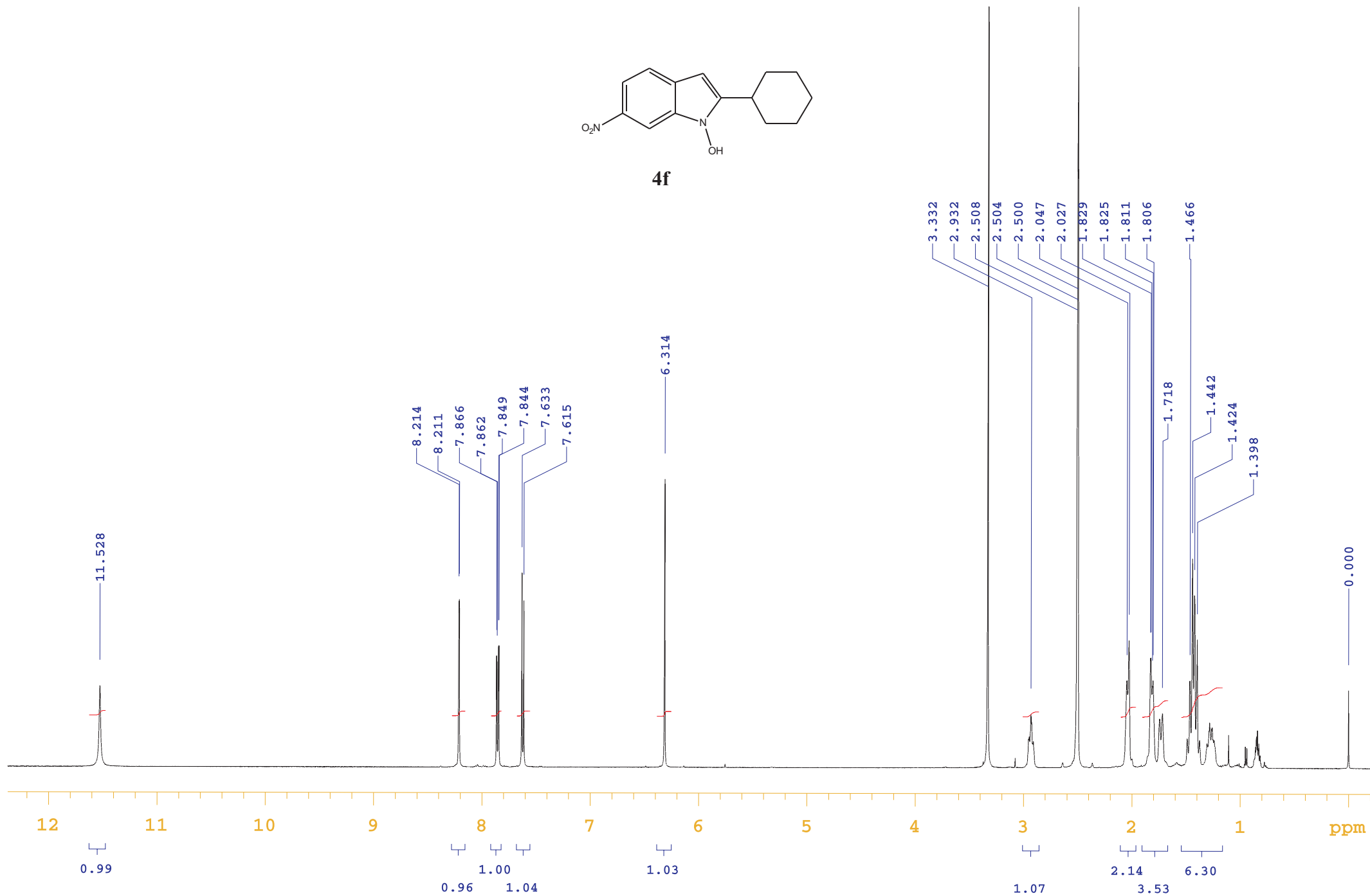


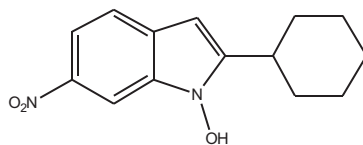
4d



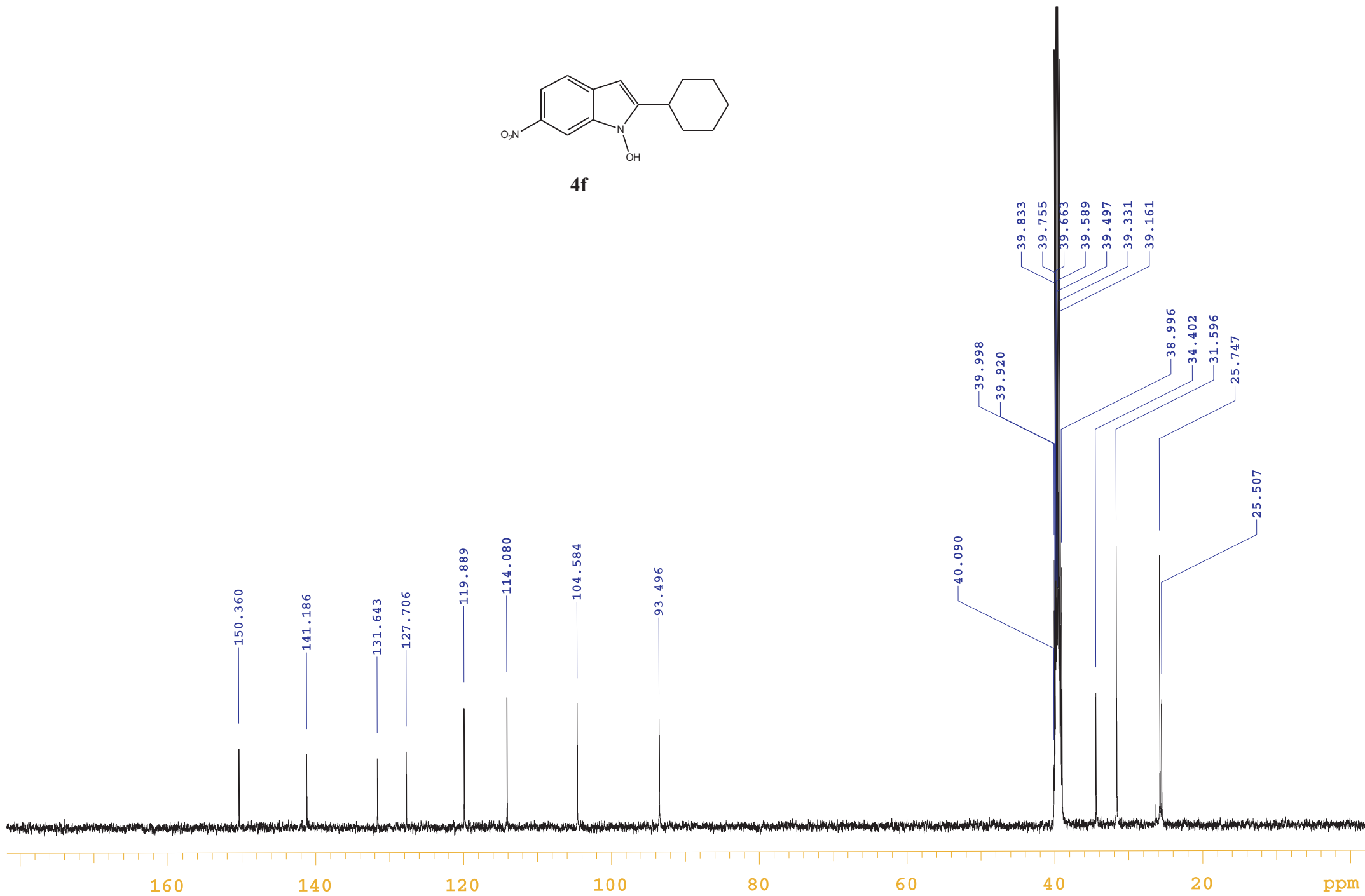


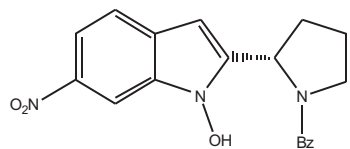
4f





4f





**4h**  
mixture of rotamers

11.831

8.261

8.157

7.870

7.649

7.505

7.258

6.476

5.551

3.805

3.492

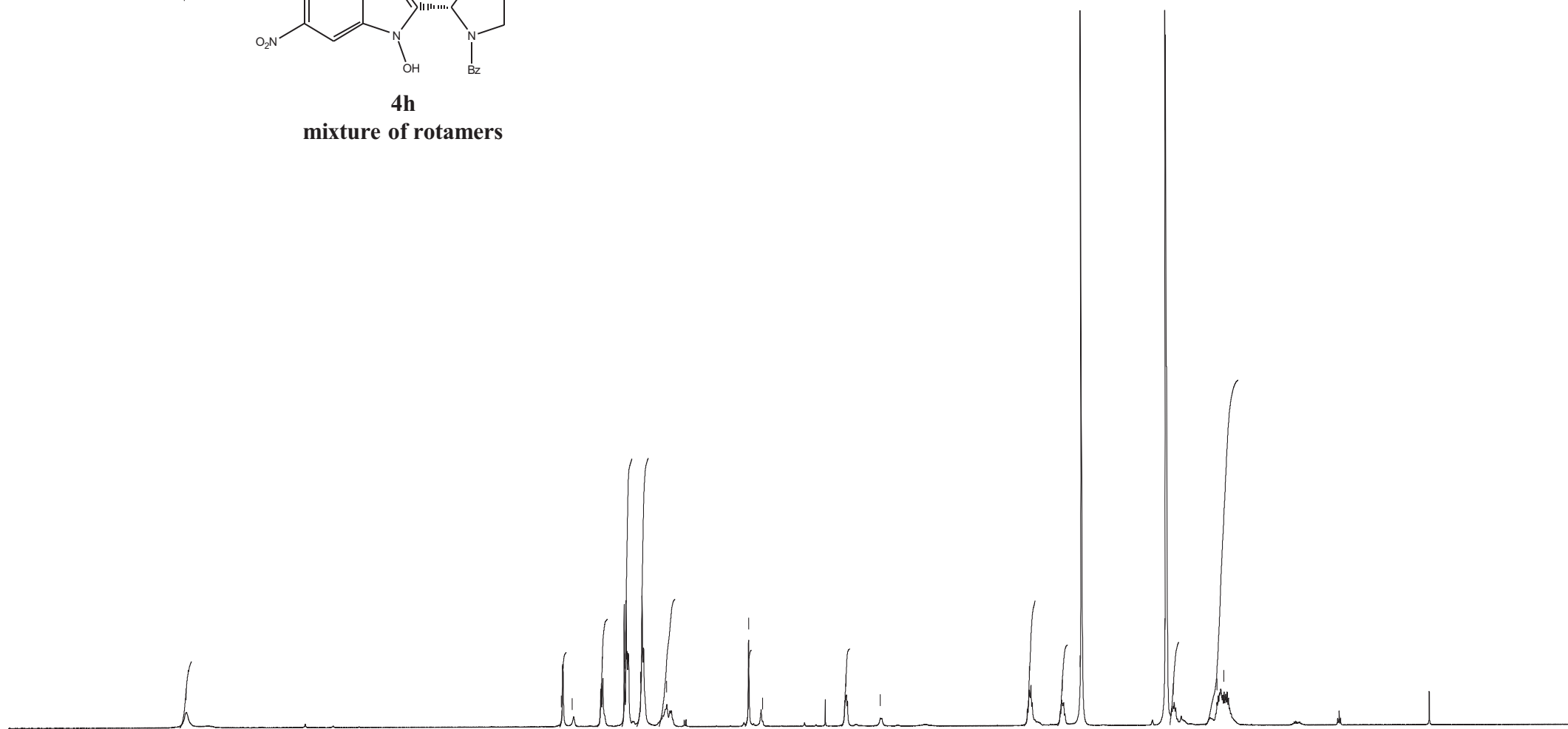
3.323

2.515

2.437

2.020

1.955



13

12

11

10

9

8

7

6

5

4

3

2

1

0

ppm

0.89

1.00

1.44

3.59

3.60

1.70

1.03

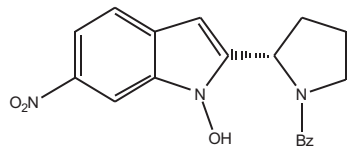
1.04

1.67

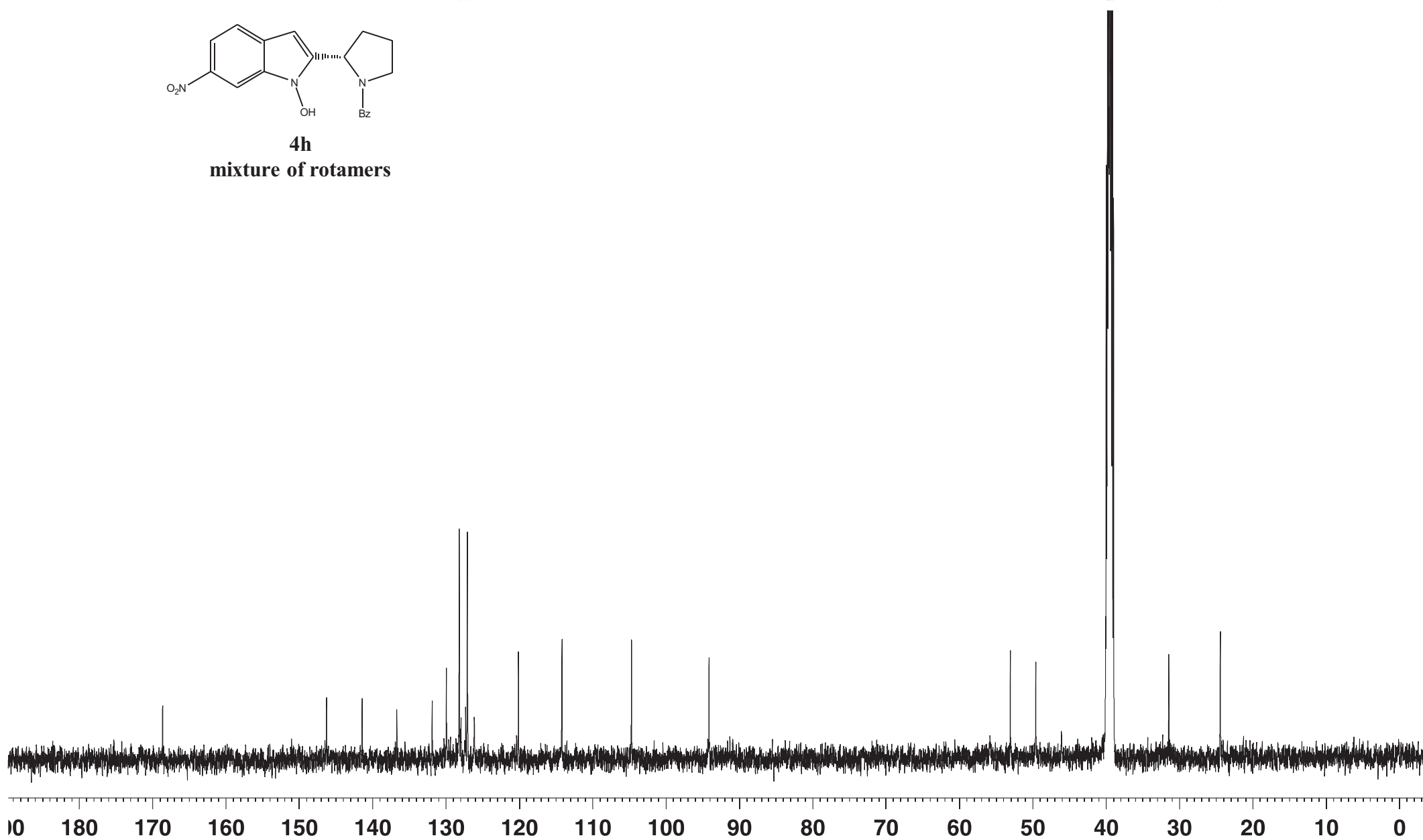
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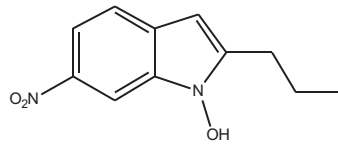
1.11

4.62

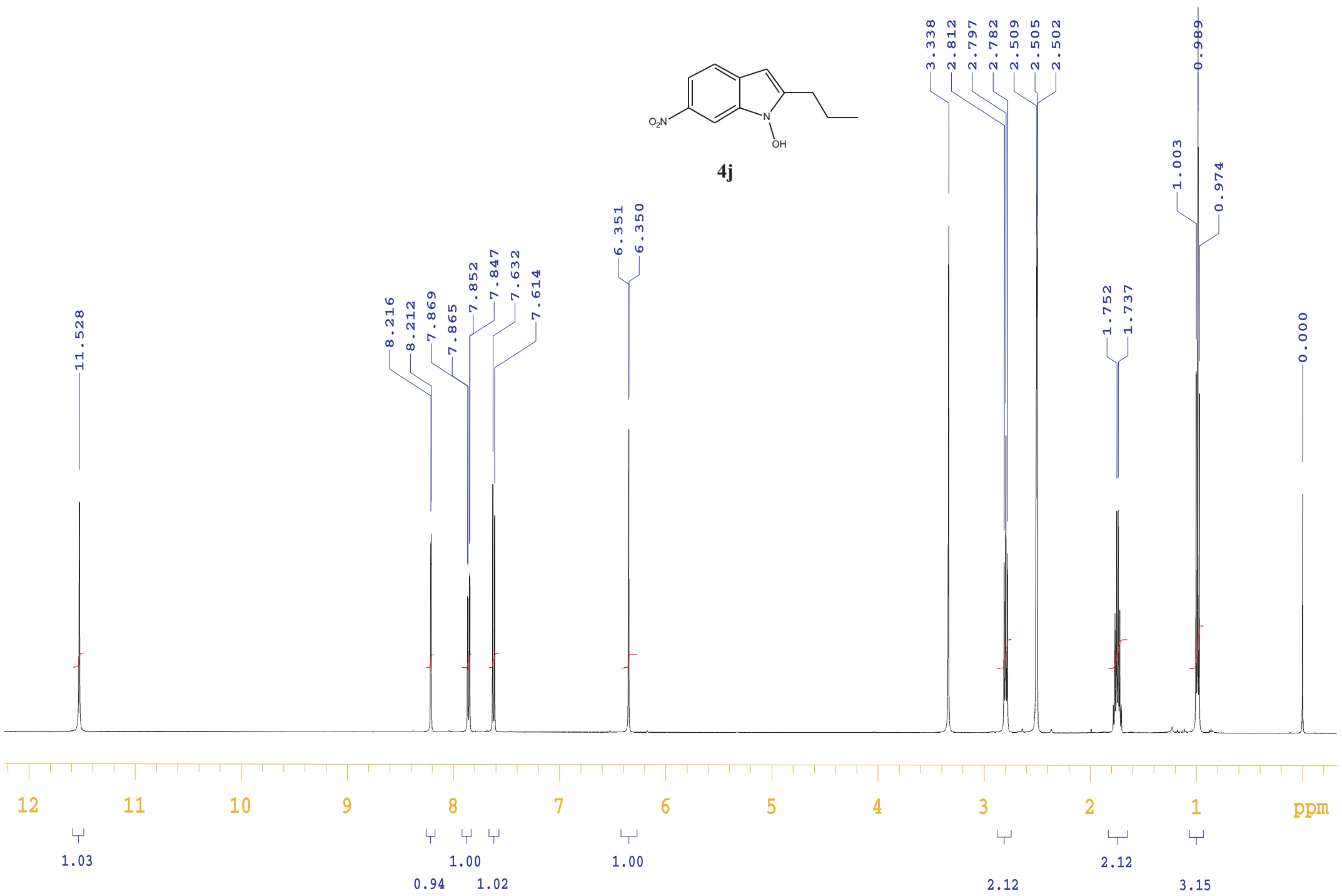


**4h**  
mixture of rotamers

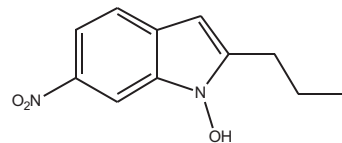




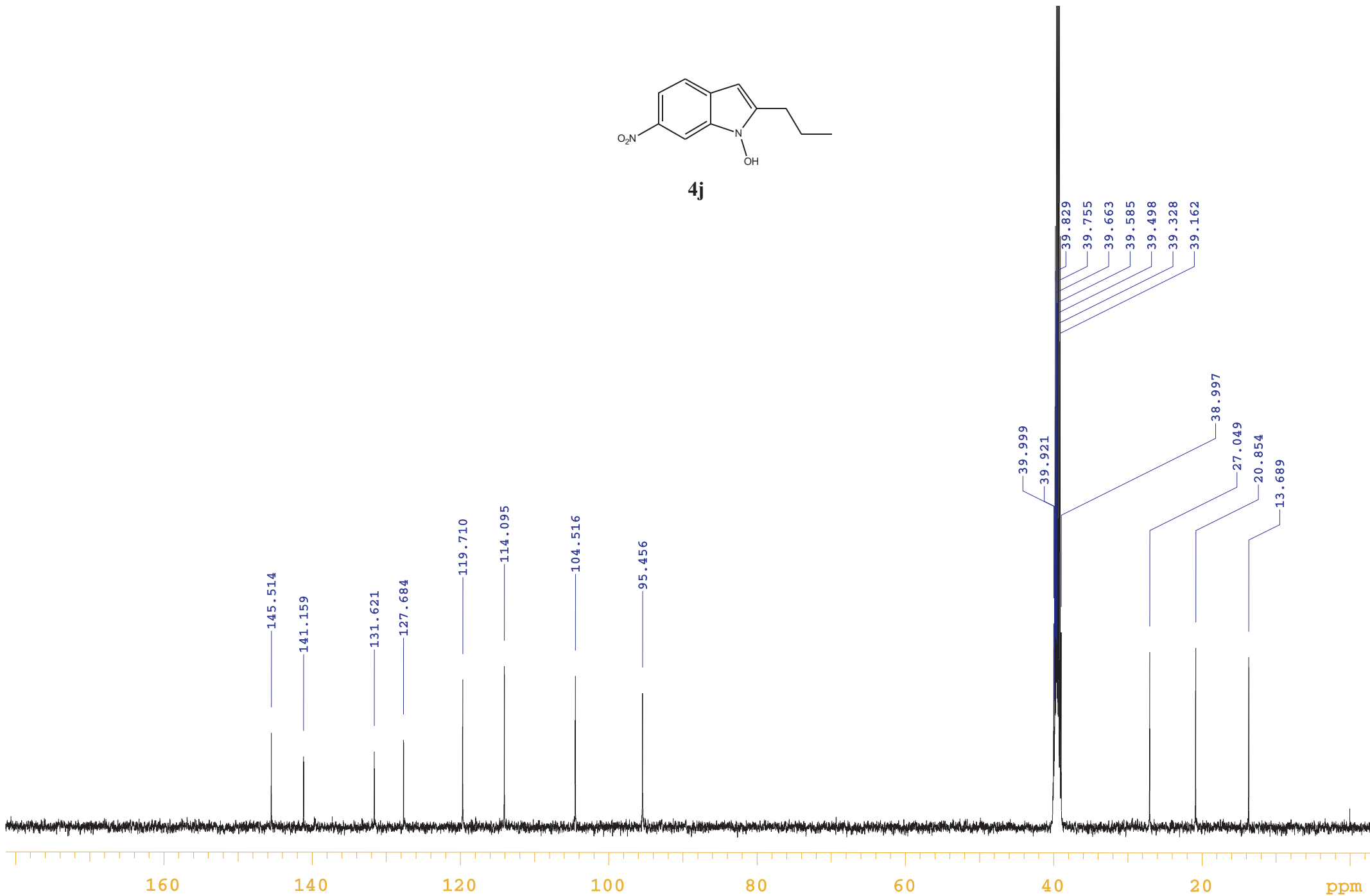
4j

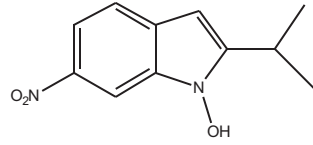




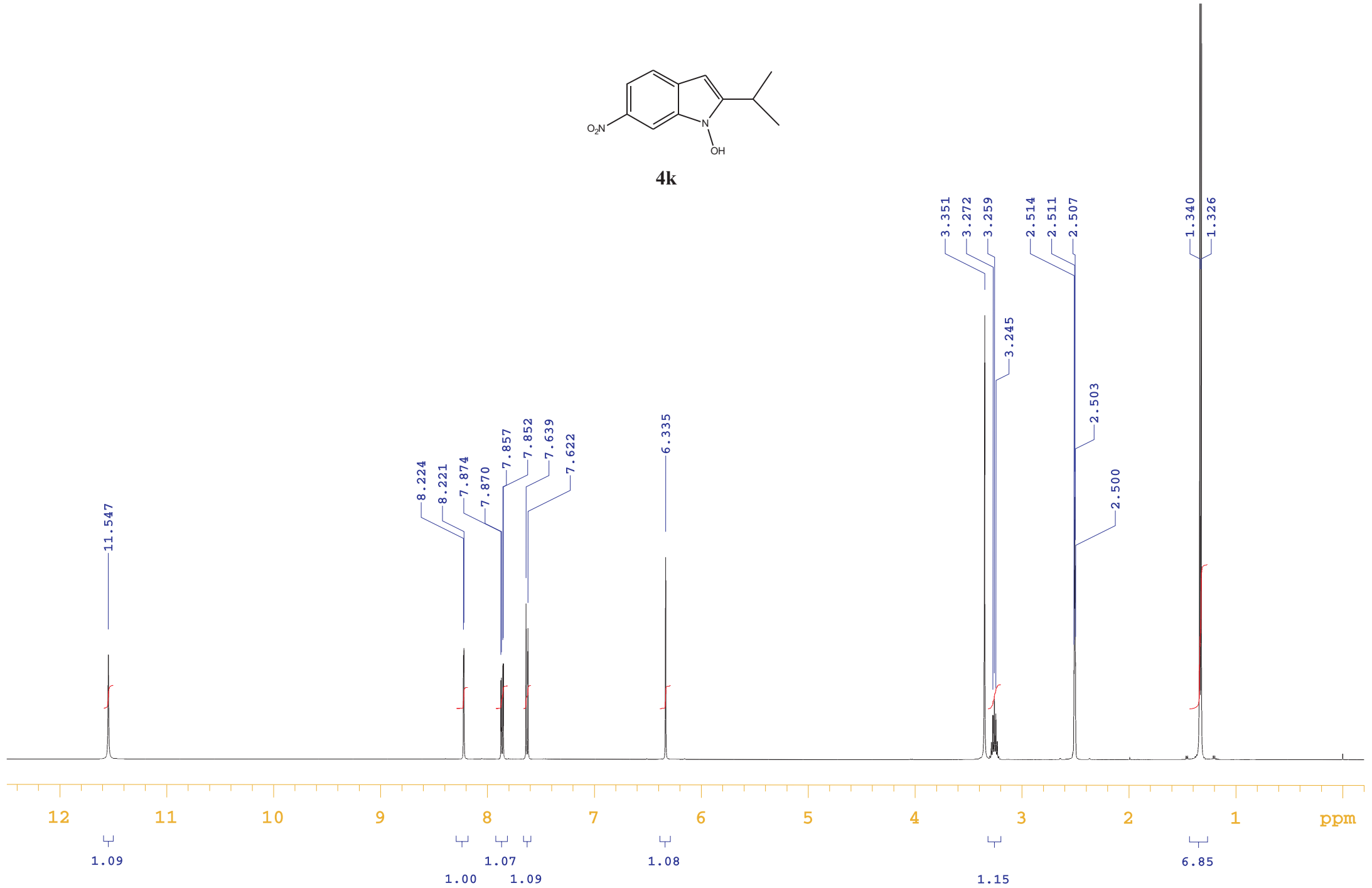


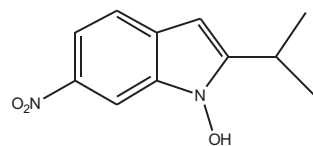
4j



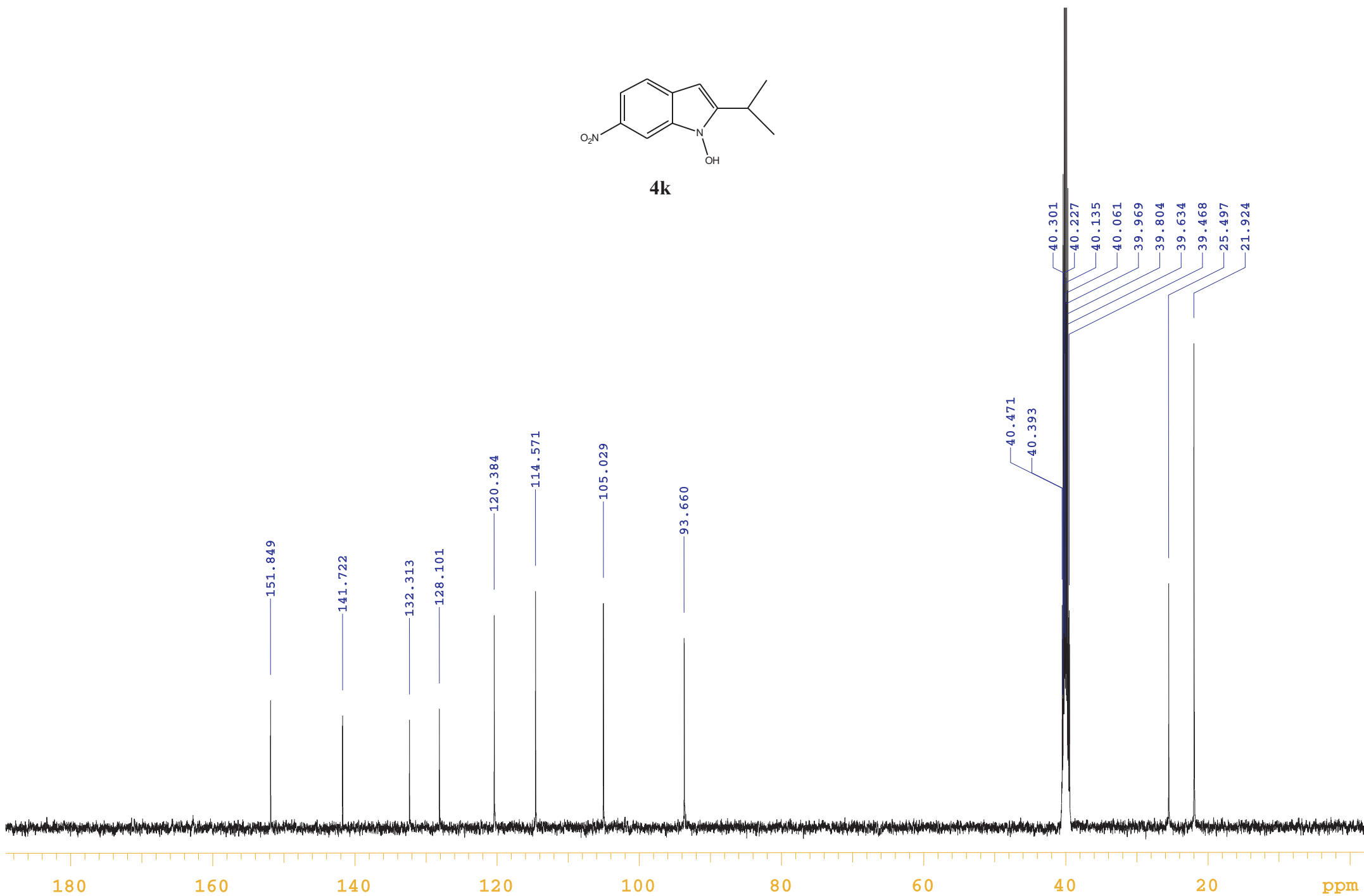


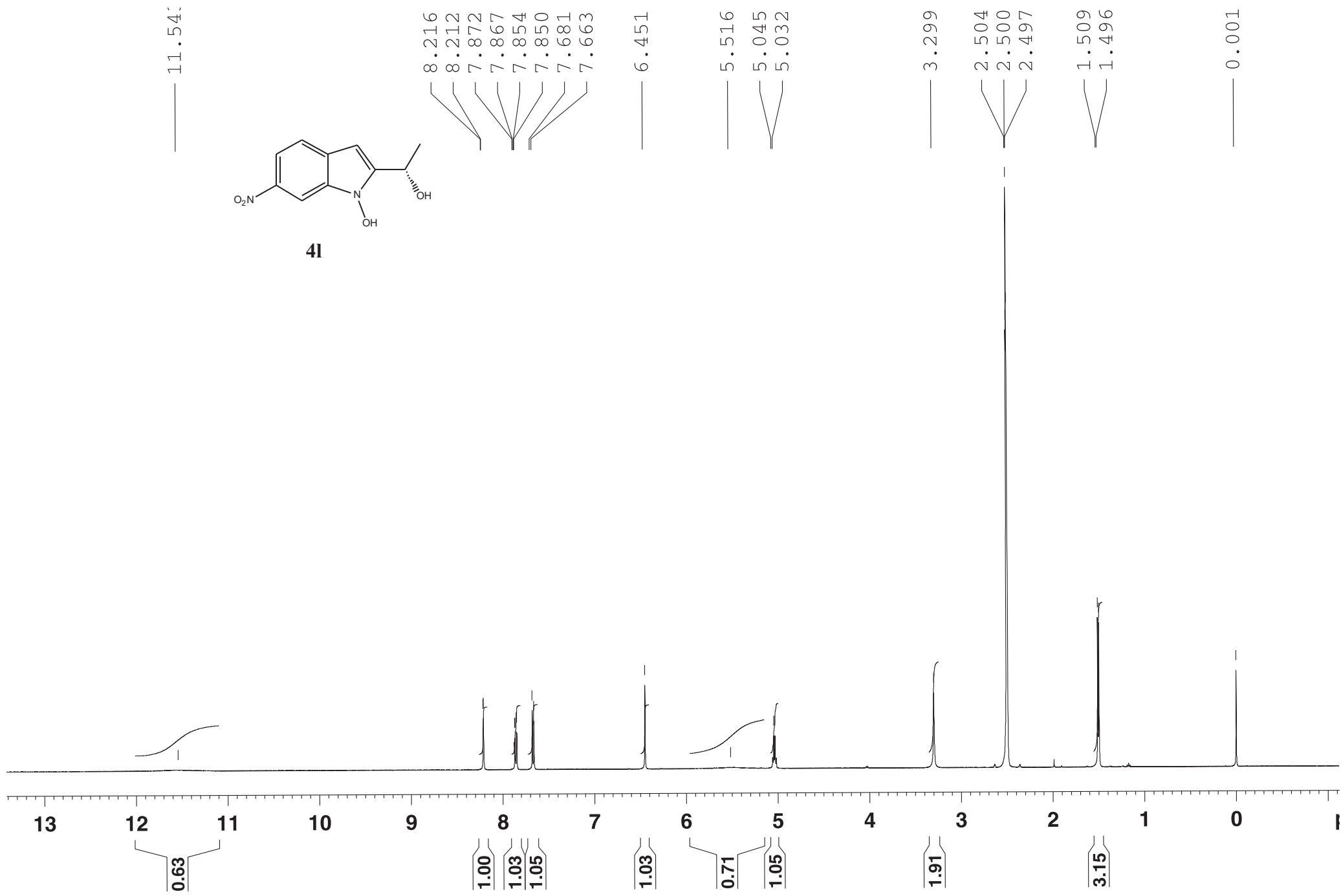
4k

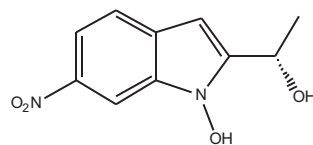




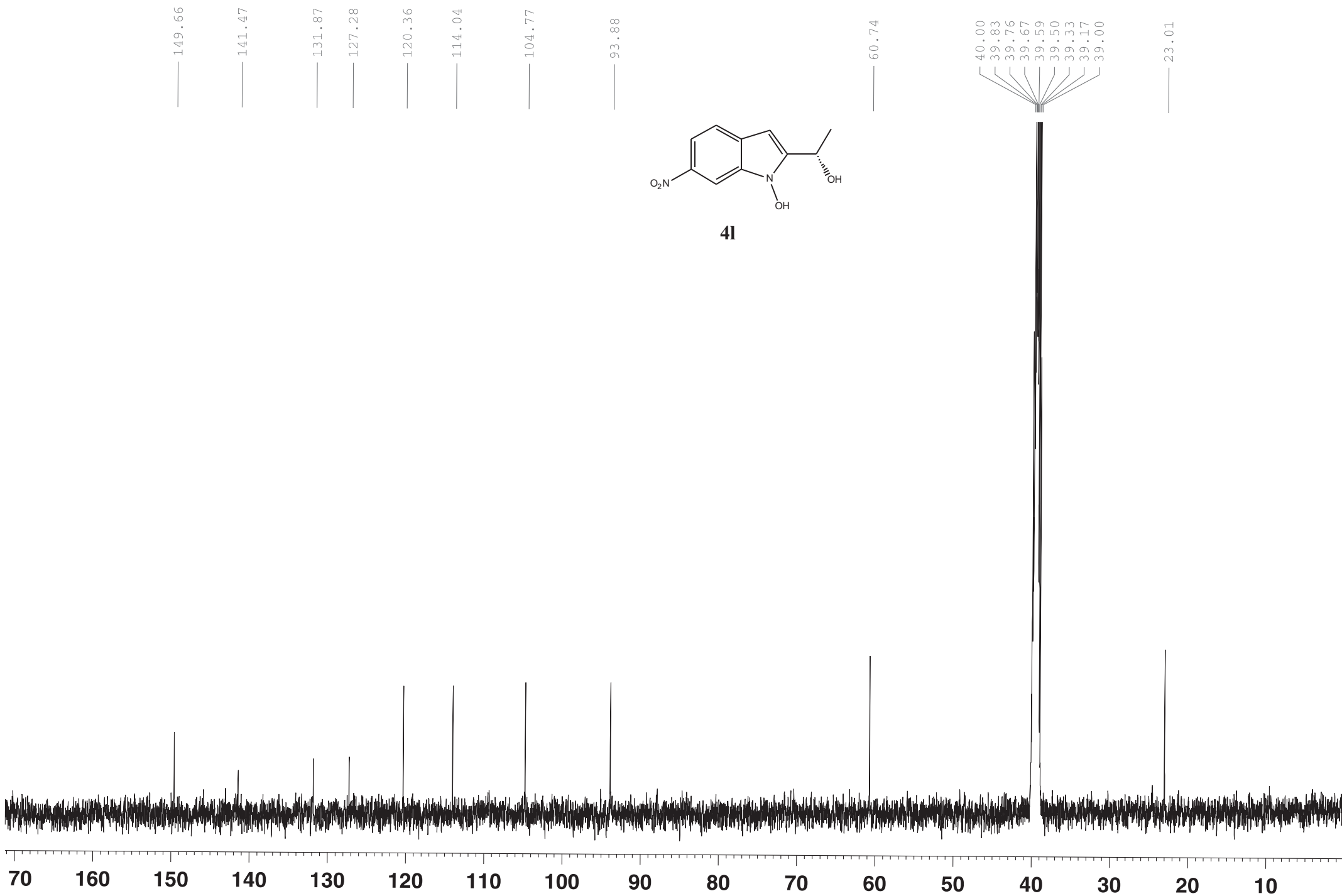
4k

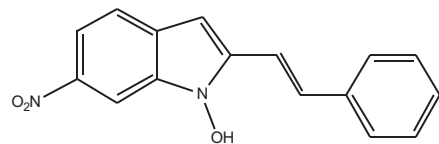




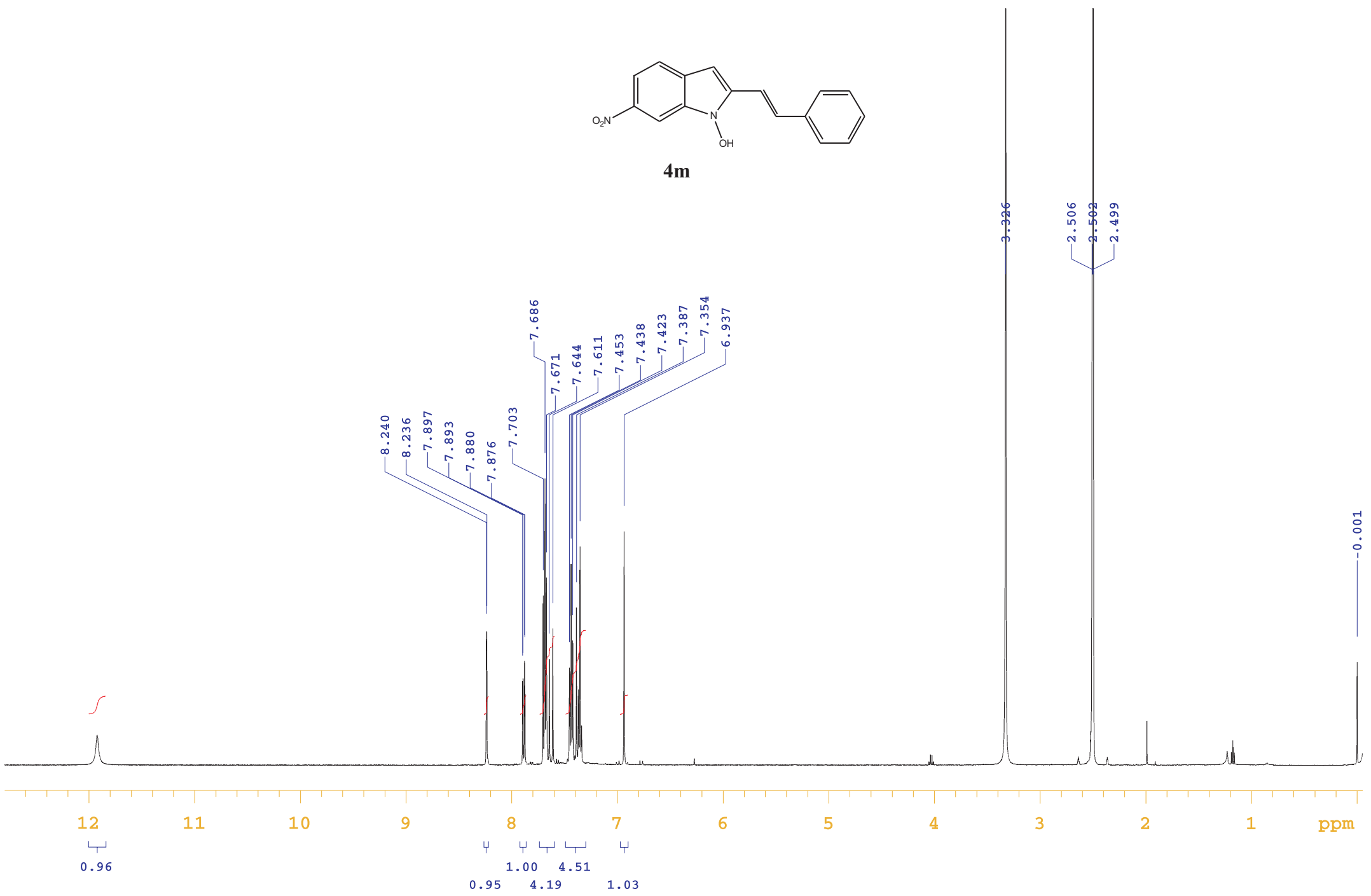


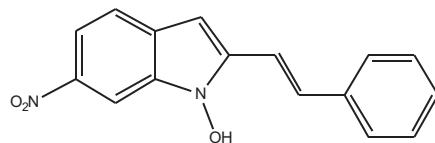
**4I**



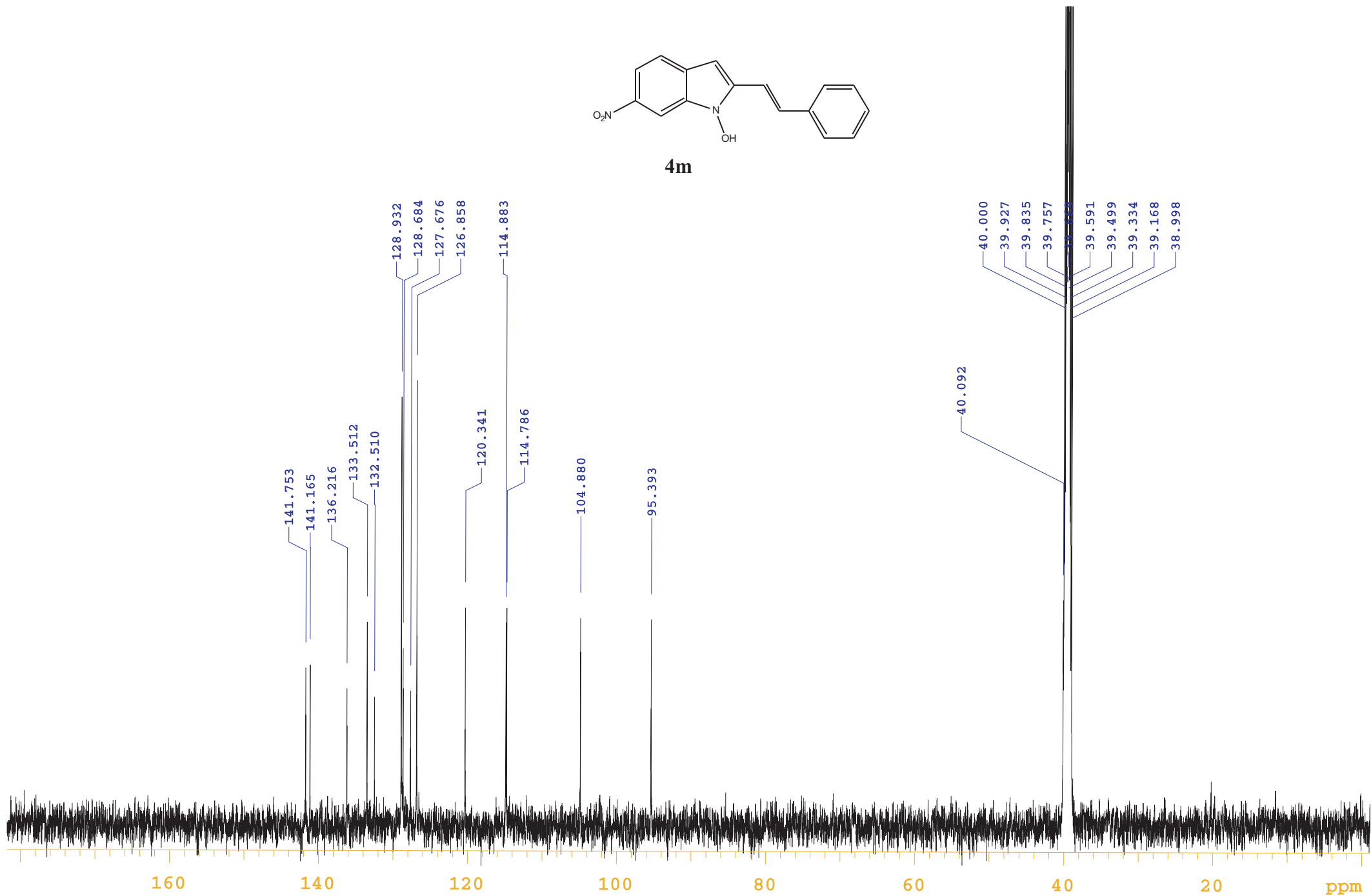


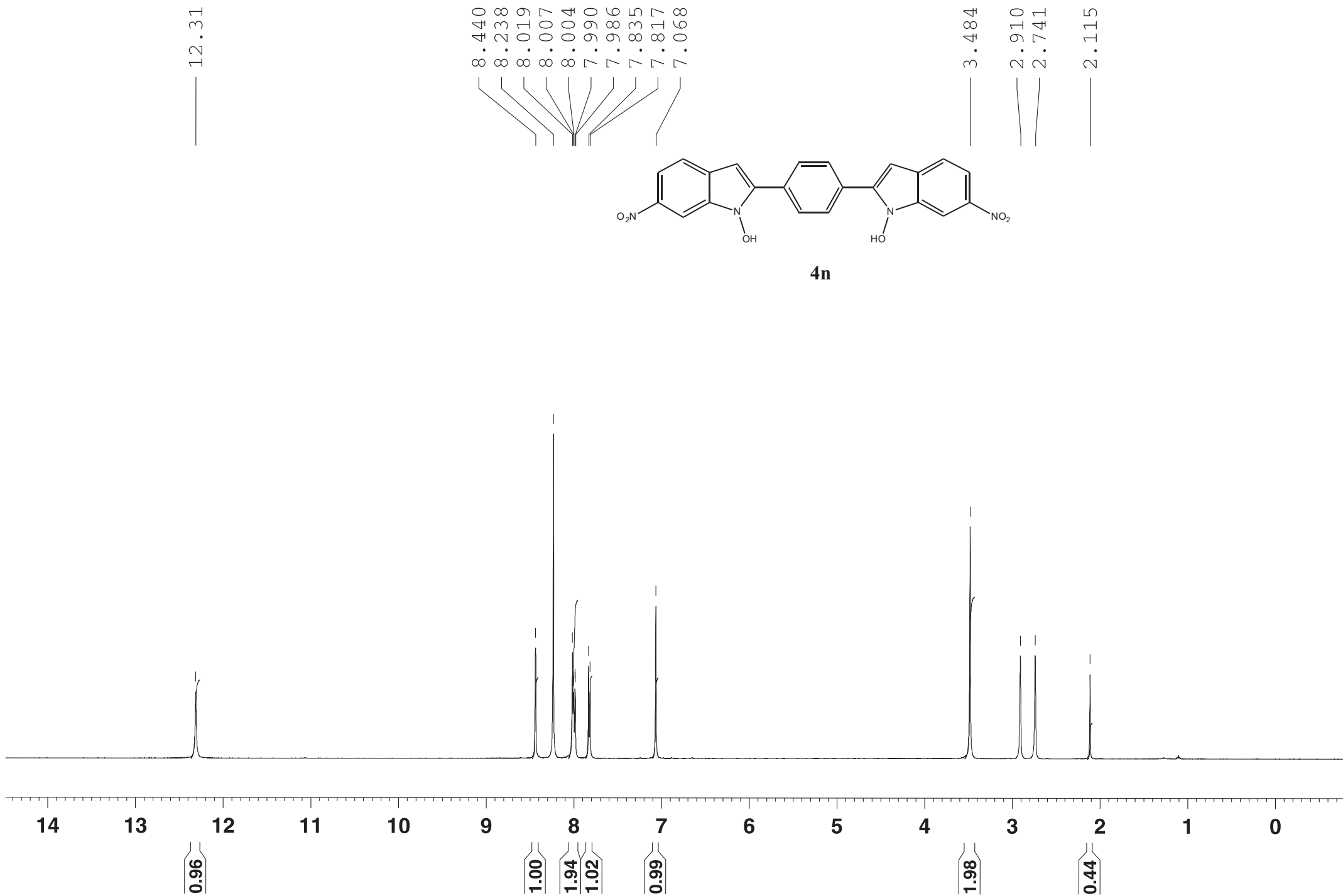
4m





4m







162.93  
162.70  
162.47

143.56  
142.85

134.93  
130.95  
129.17  
128.74

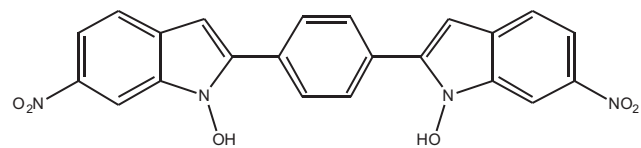
121.52

115.67

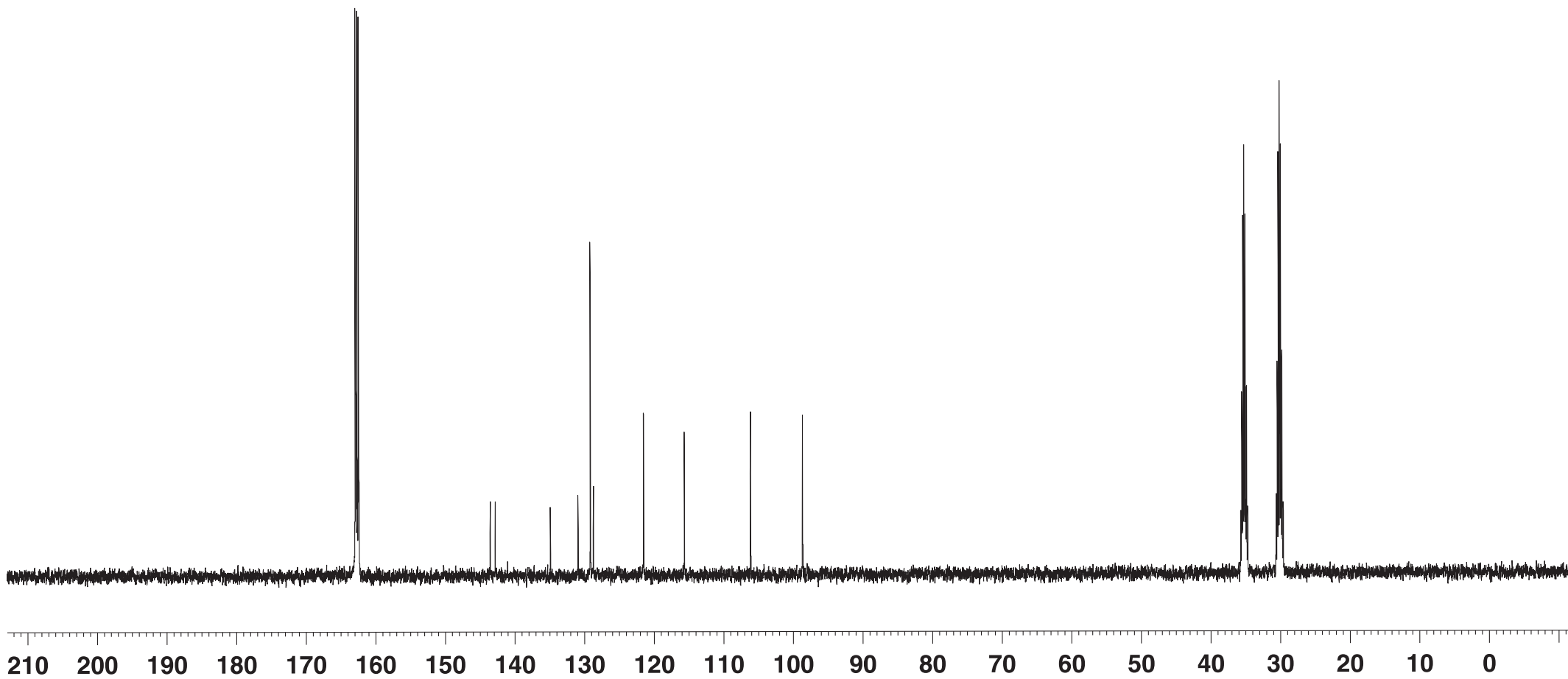
106.16

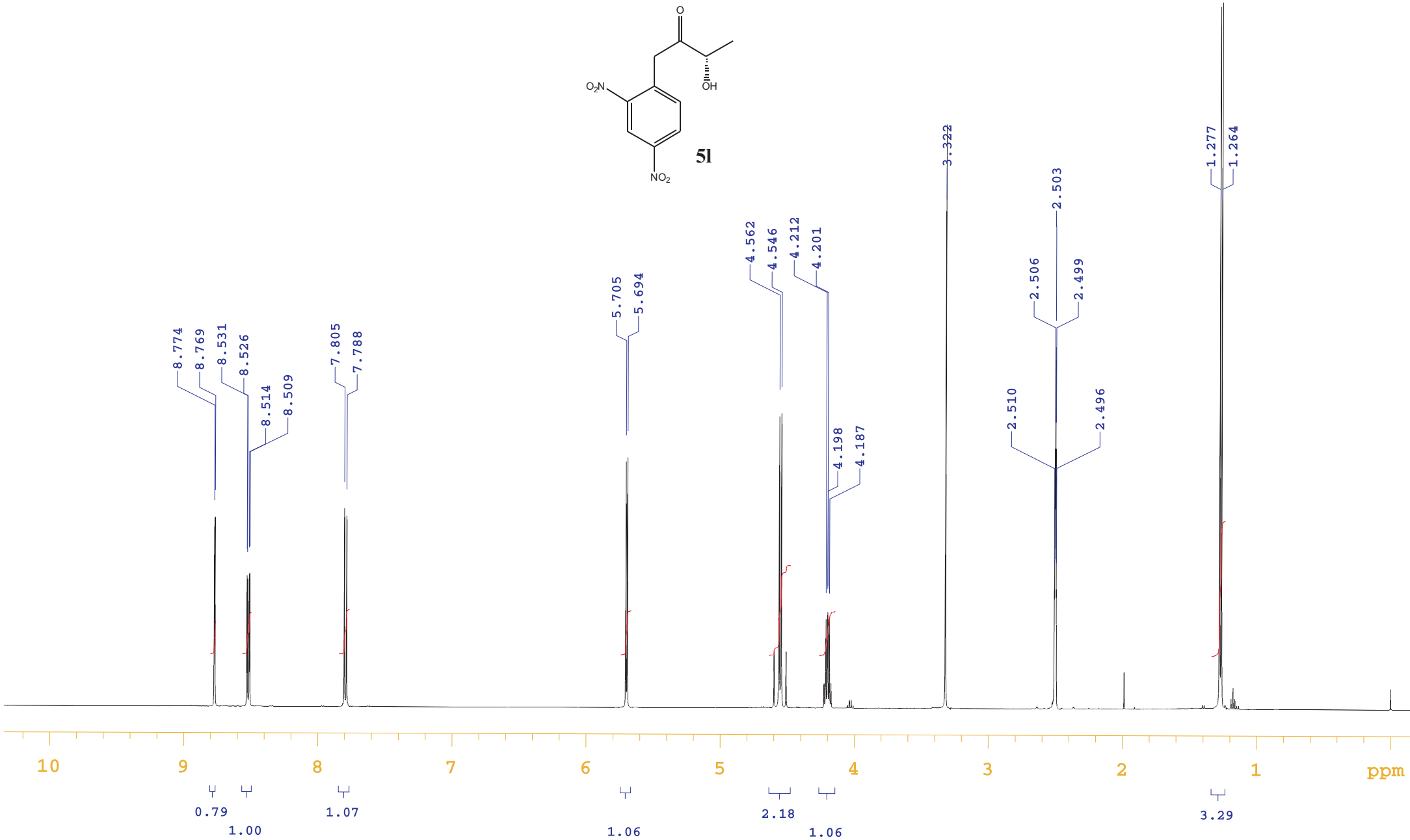
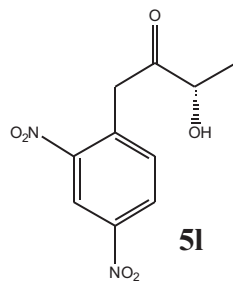
98.67

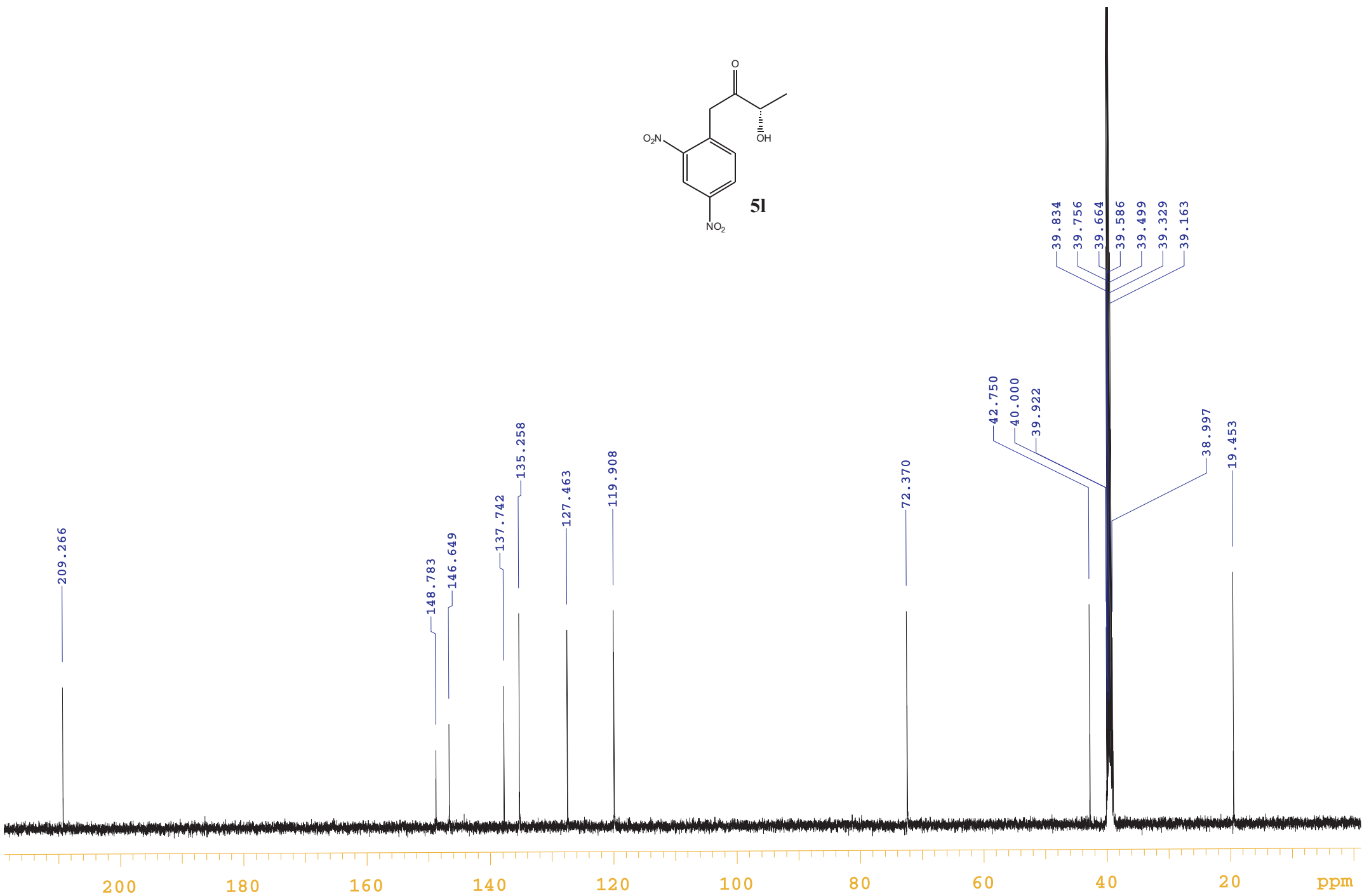
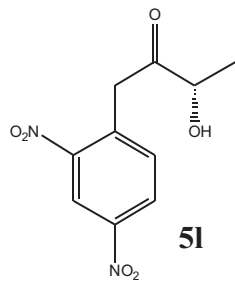
35.70  
35.53  
35.37  
35.20  
35.03  
34.87  
34.70  
30.60  
30.43  
30.27  
30.10  
29.93  
29.77  
29.60

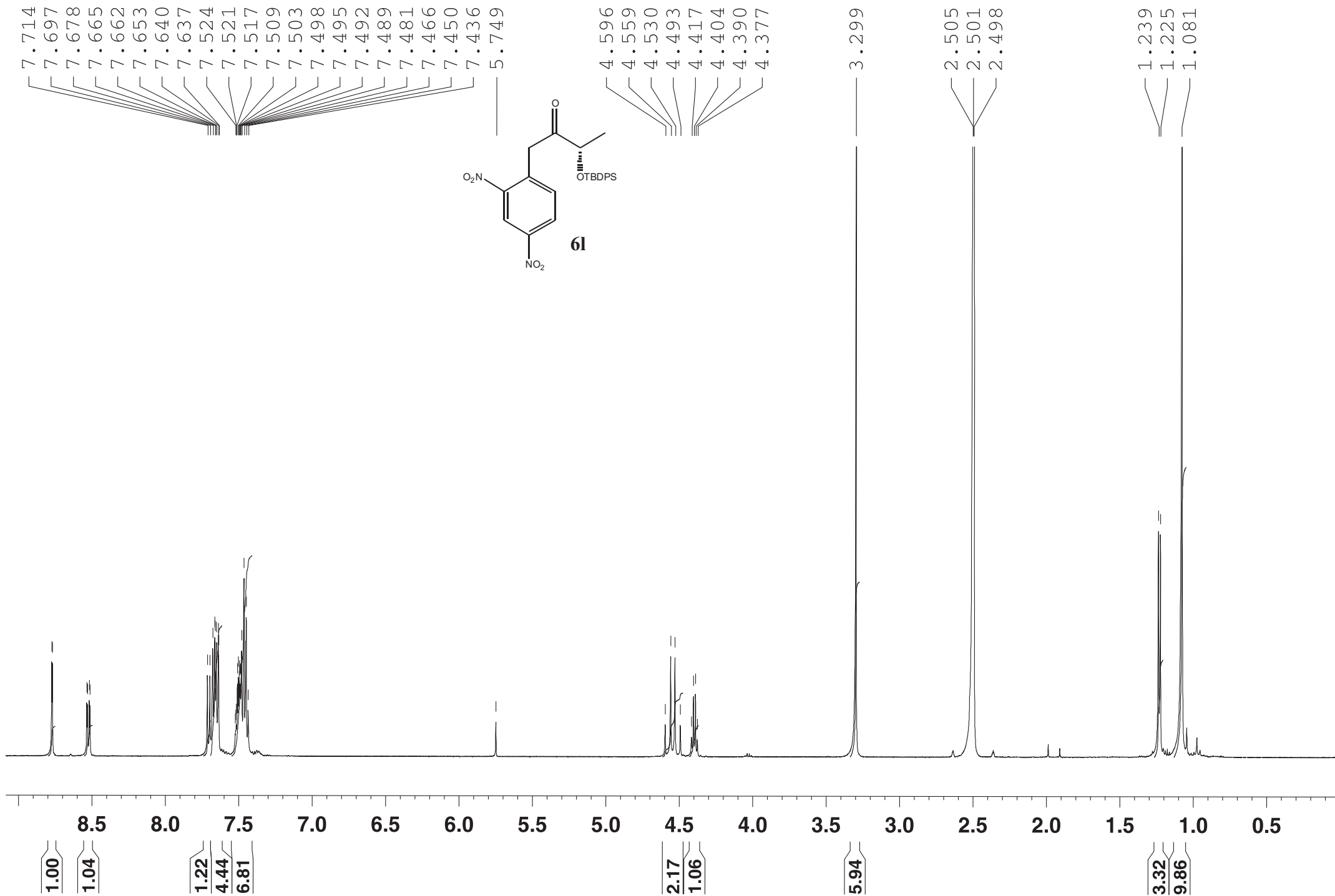


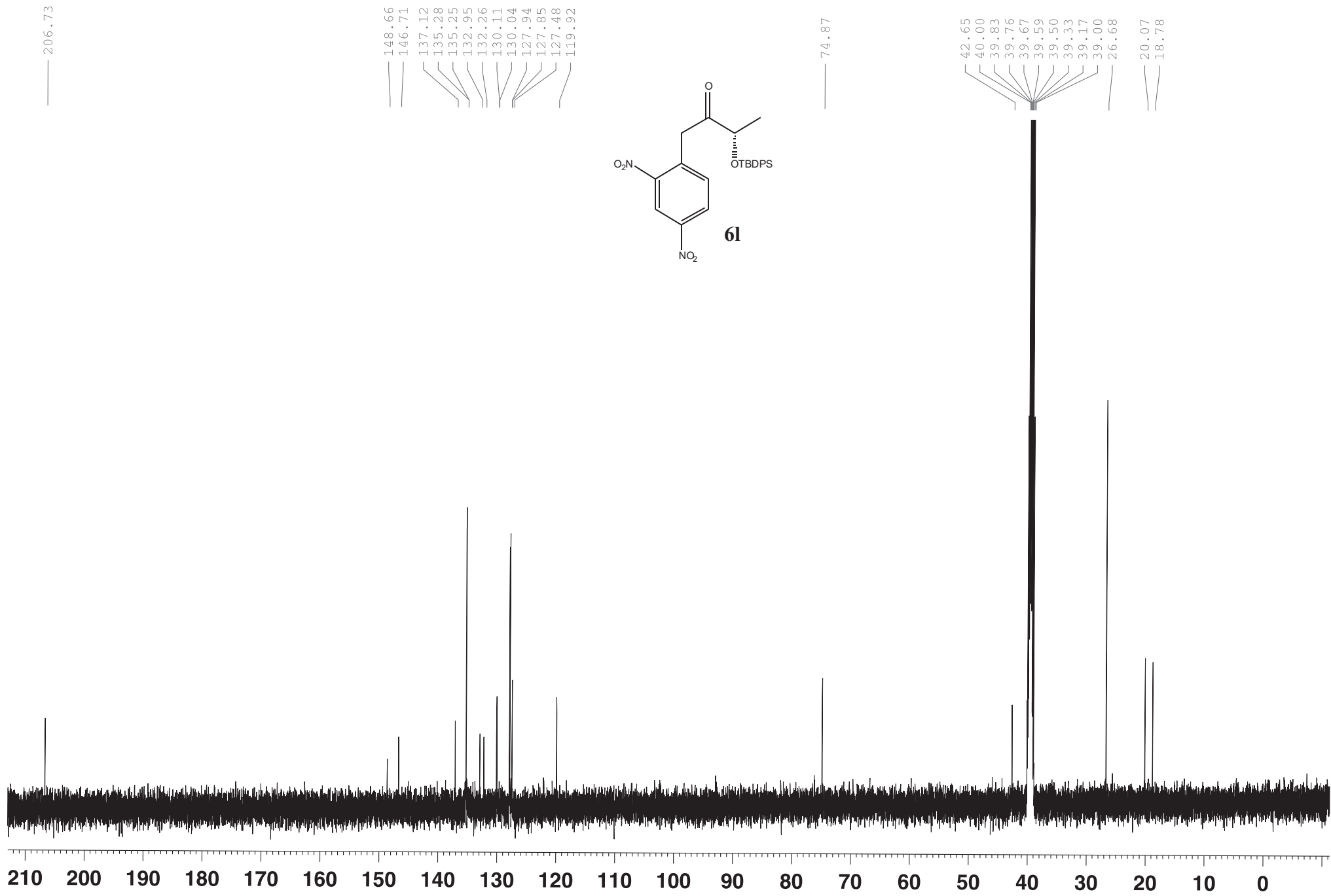
**4n**





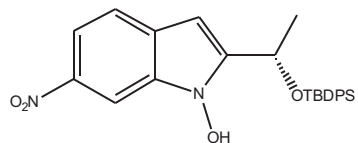








148.21  
136.31  
135.23  
135.11  
134.41  
133.19  
132.59  
131.76  
129.95  
129.86  
129.10  
127.79  
127.71  
127.43  
127.30  
120.55  
114.12  
104.89  
94.08  
64.24  
40.00  
39.83  
39.76  
39.67  
39.50  
39.33  
39.16  
39.00  
26.67  
26.49  
24.11  
18.82  
18.60



+

