

Metal-Free in Situ sp^3 , sp^2 , and sp C-H Functionalization and Oxidative Cross Coupling with Benzamidines Hydrochloride: A Promising Approach for the Synthesis of α -Ketoimides

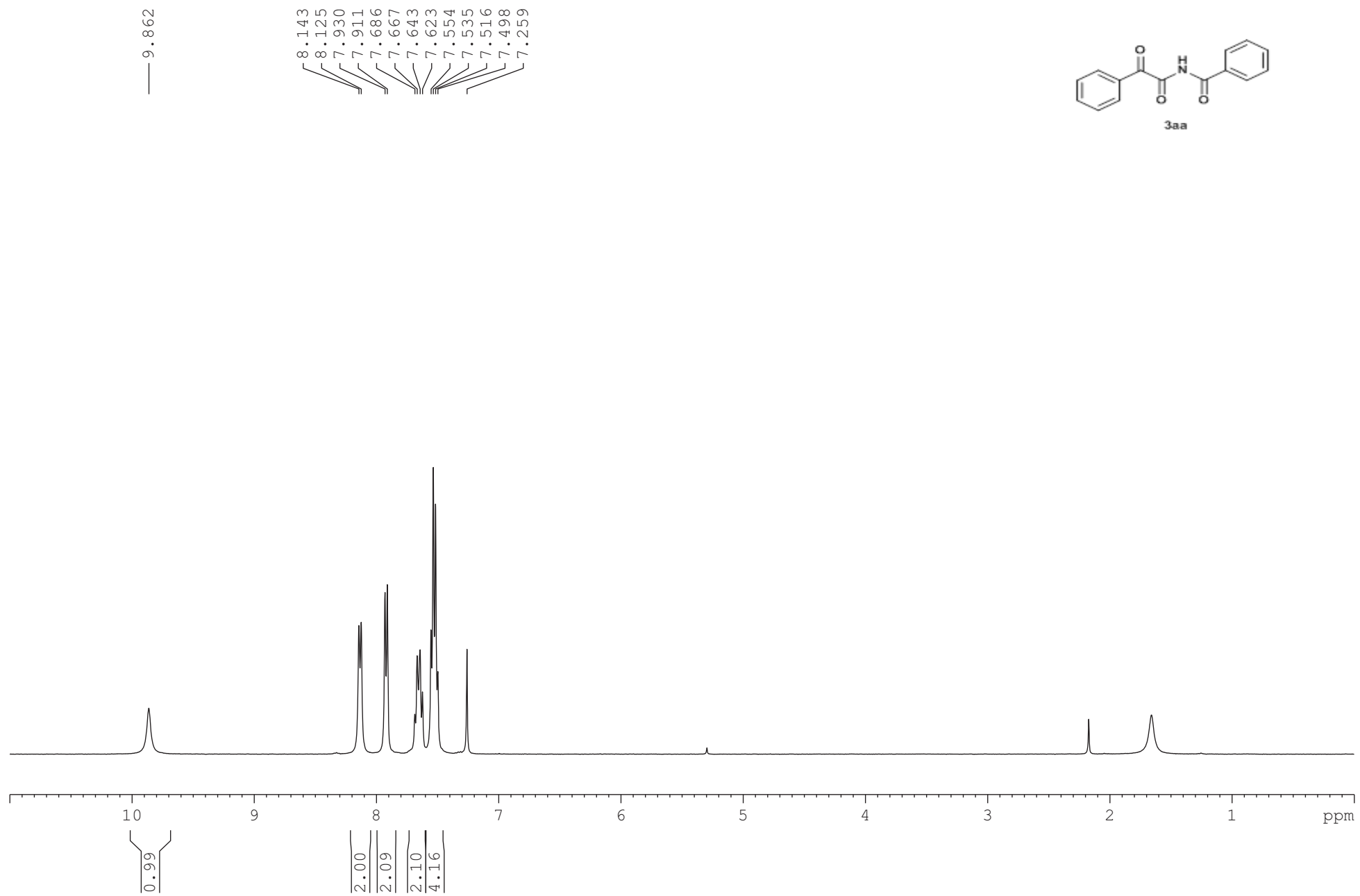
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[†]*Department of Dyestuff Technology, Institute of Chemical Technology, Mumbai 400019, India*
Tel.: +91-22- 3361 1111/ 2707; Fax: +91-22- 3361 1020; E-mail: achaskar25@gmail.com

Supporting Information

Content

1. Copies of ^1H and ^{13}C NMR spectra of the products2-45



—186.617

—165.313

134.715

133.999

132.396

131.063

130.166

129.145

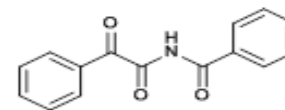
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128.132

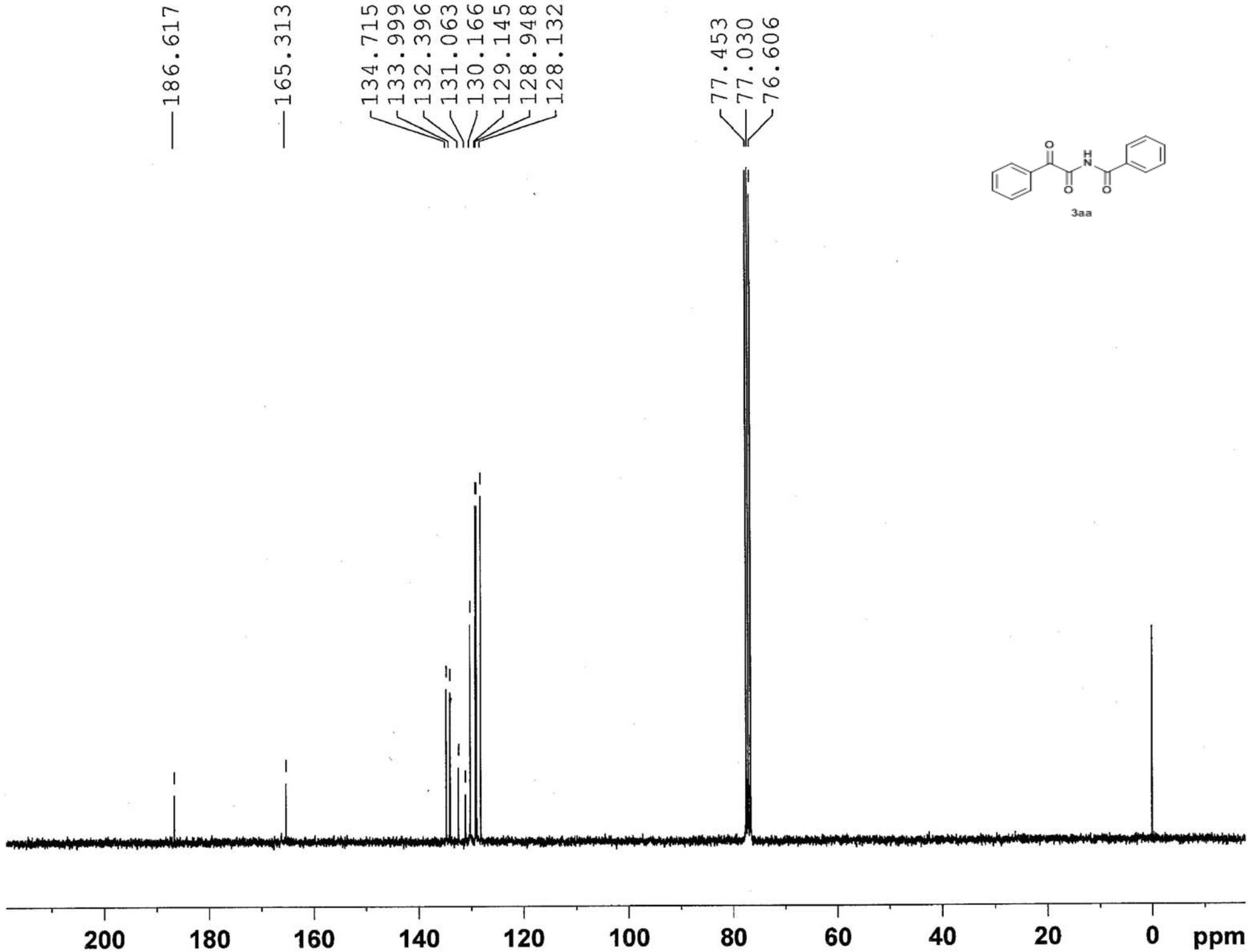
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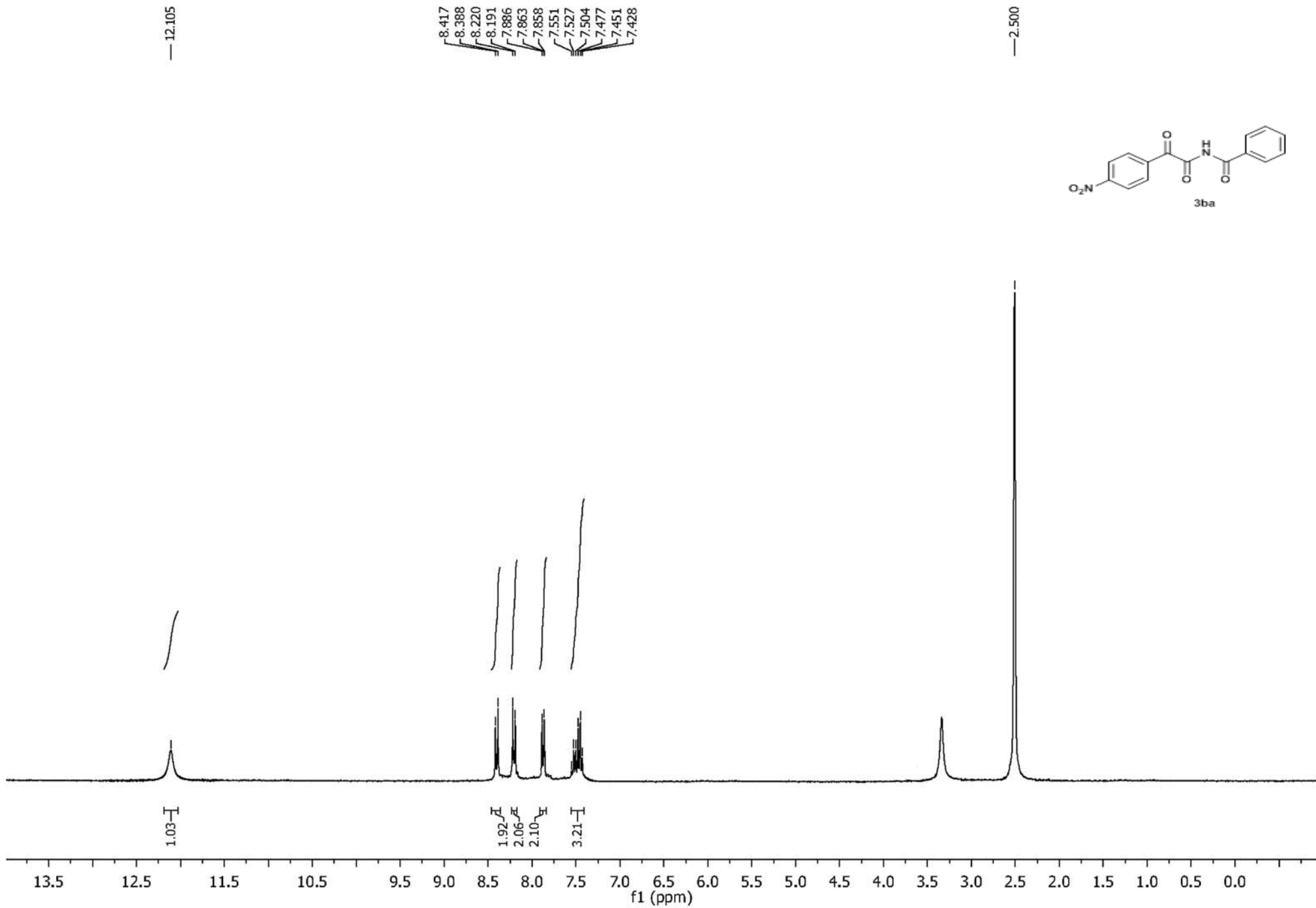
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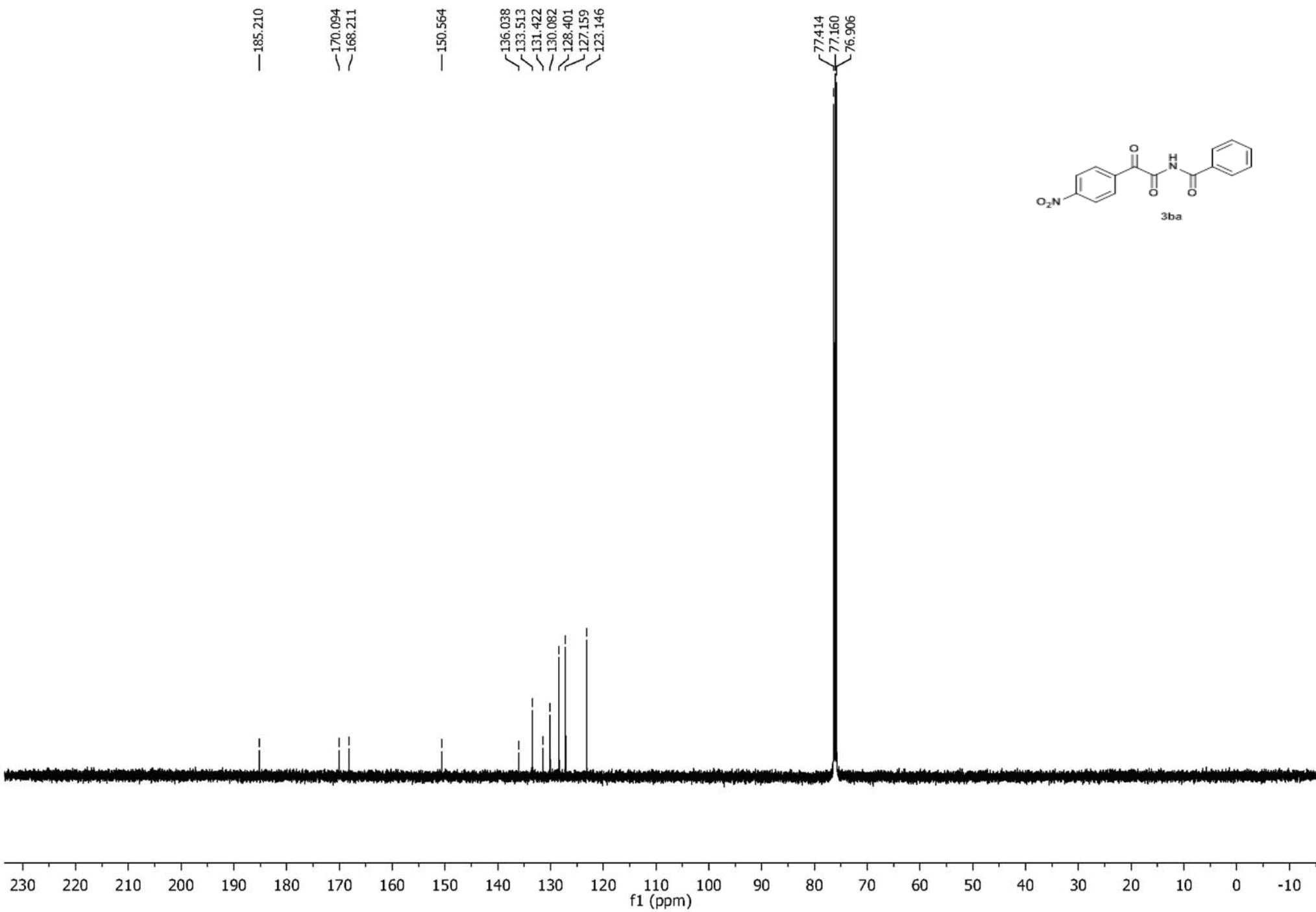
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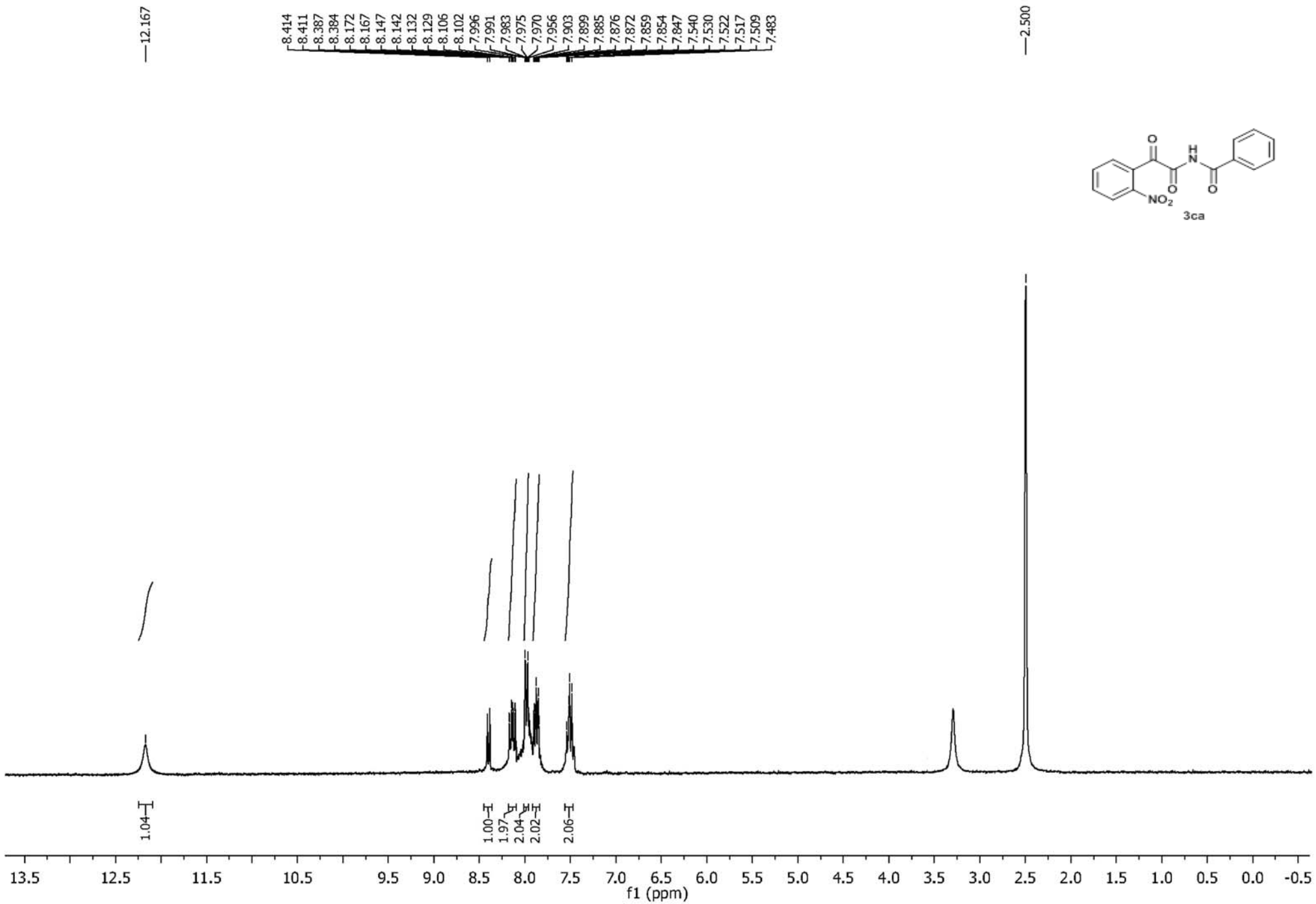


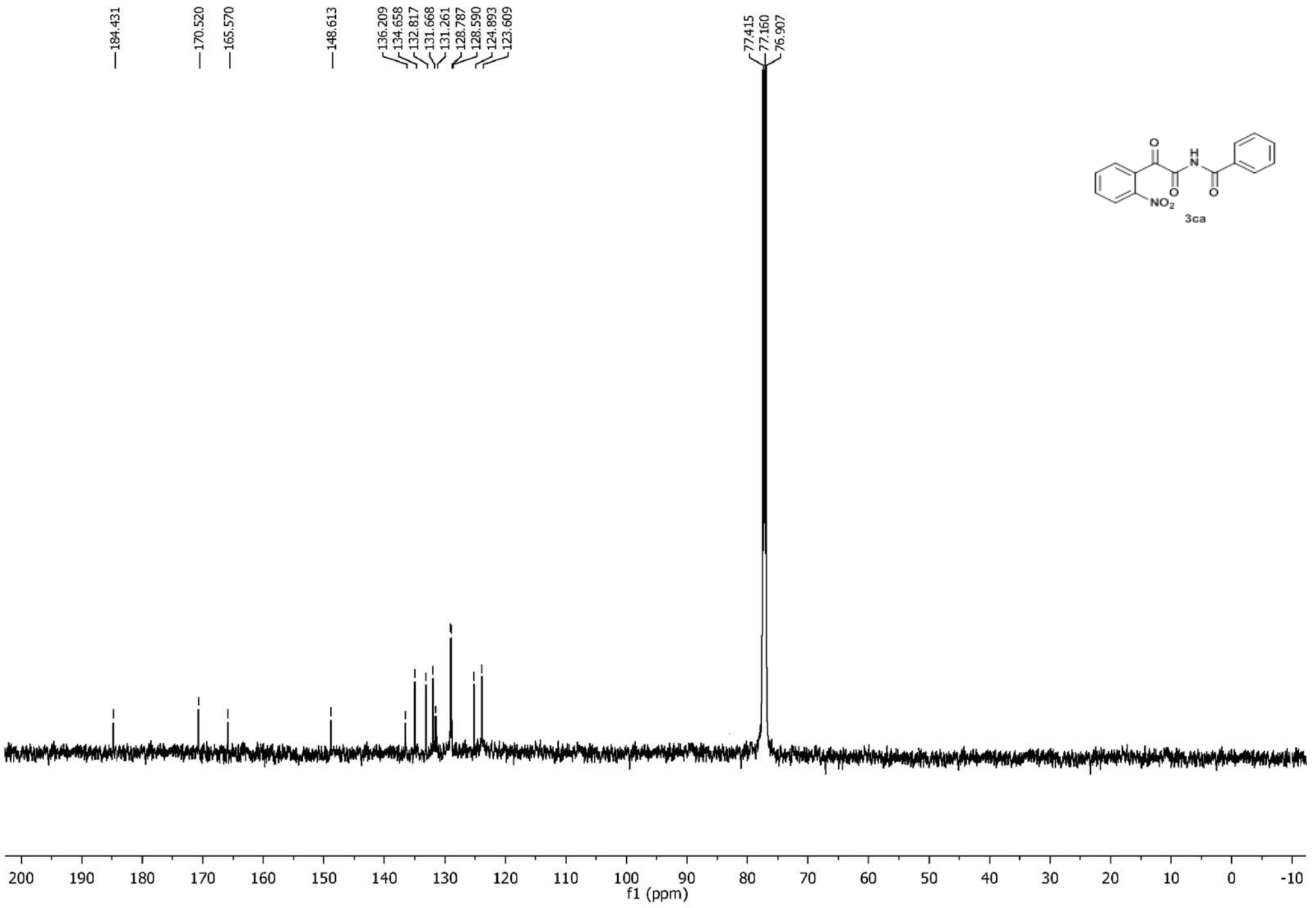
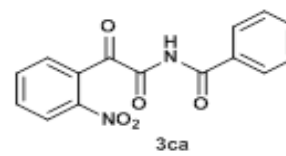
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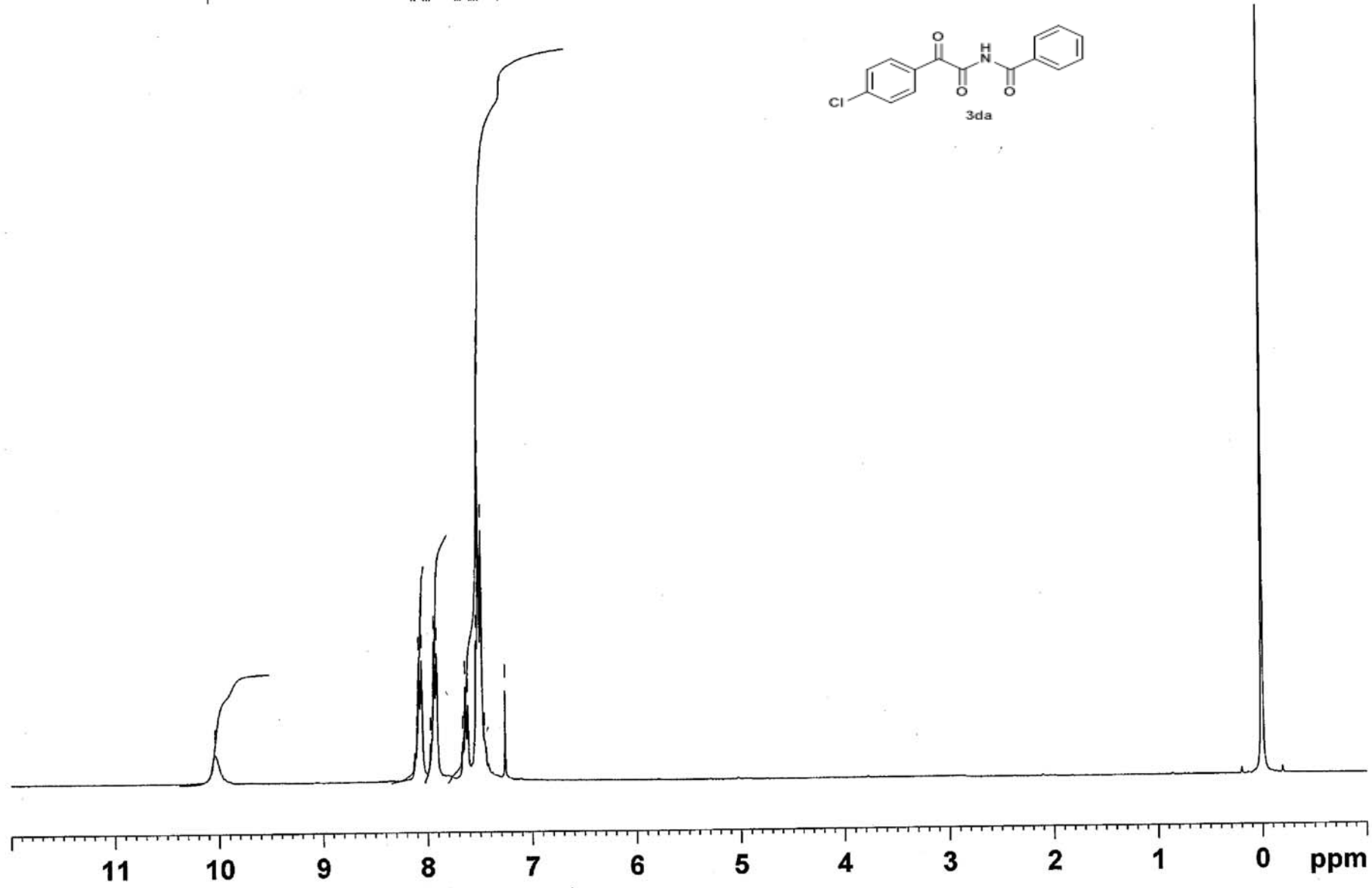




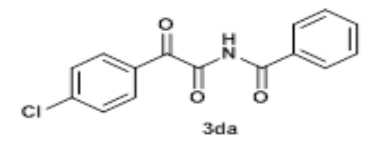




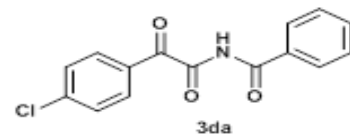
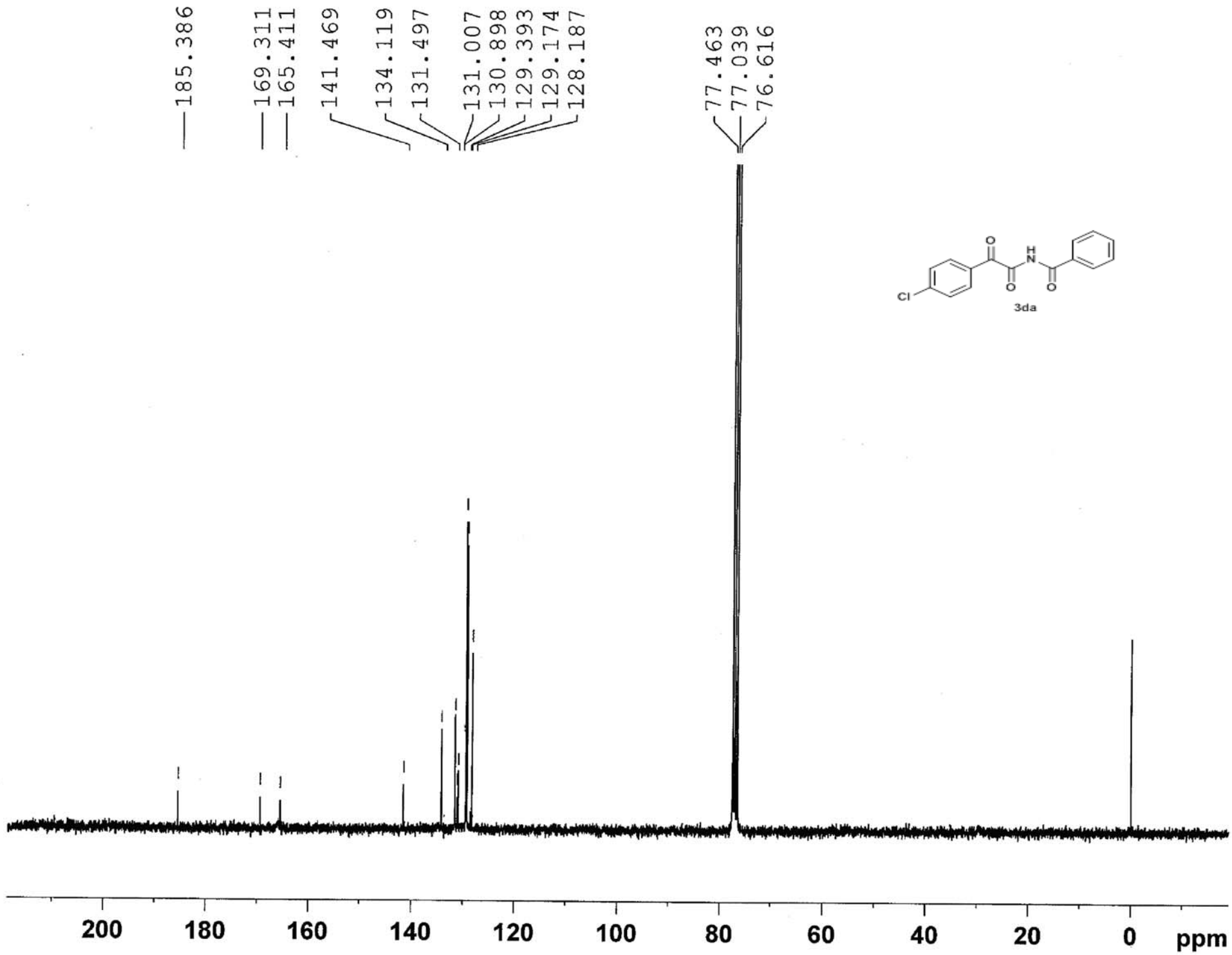




10.035
8.081
8.054
7.965
7.937
7.912
7.663
7.639
7.615
7.531
7.511
7.484
7.456
7.260

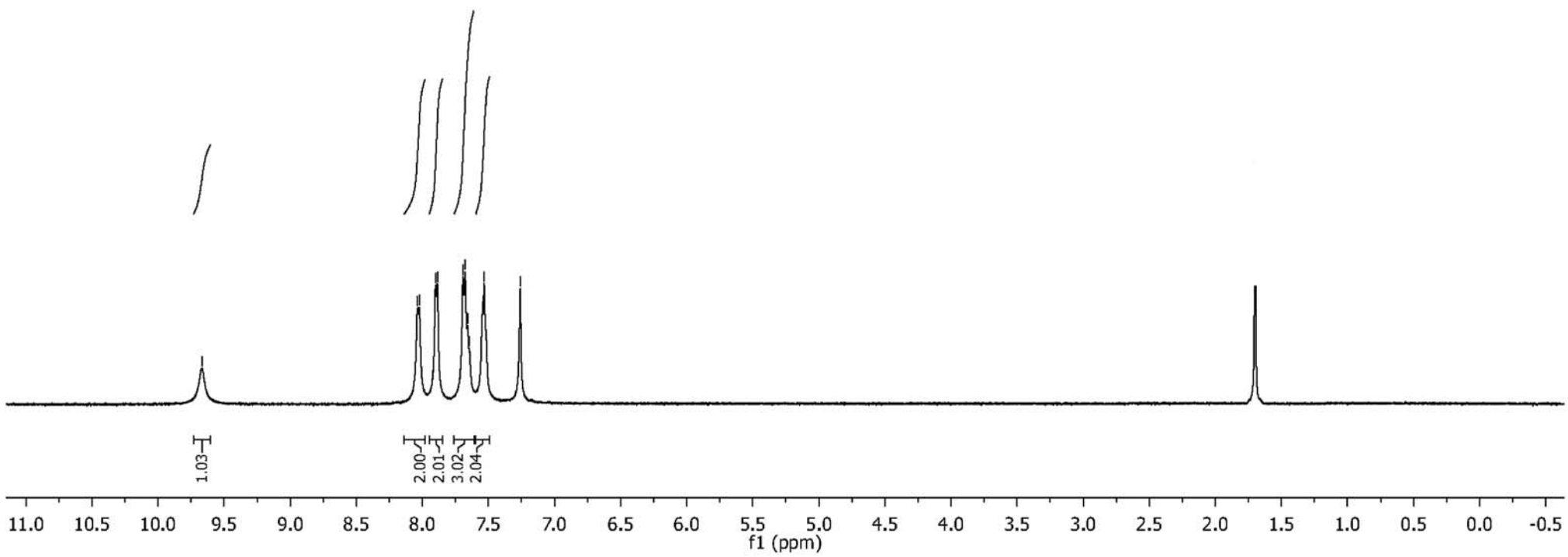
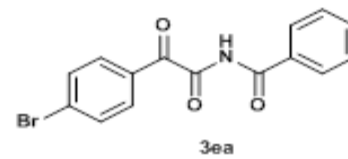


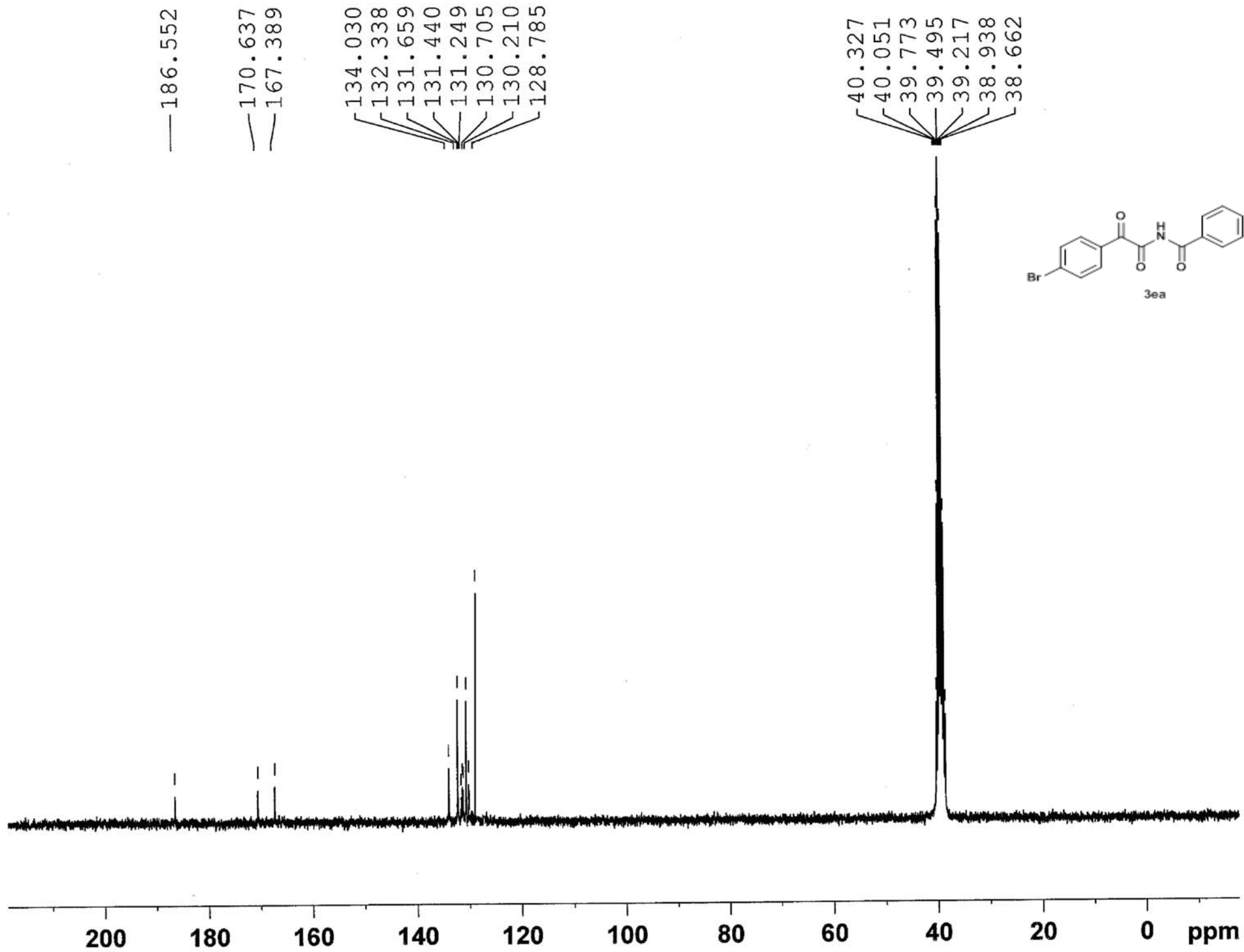
1.01
2.00
2.14
5.37

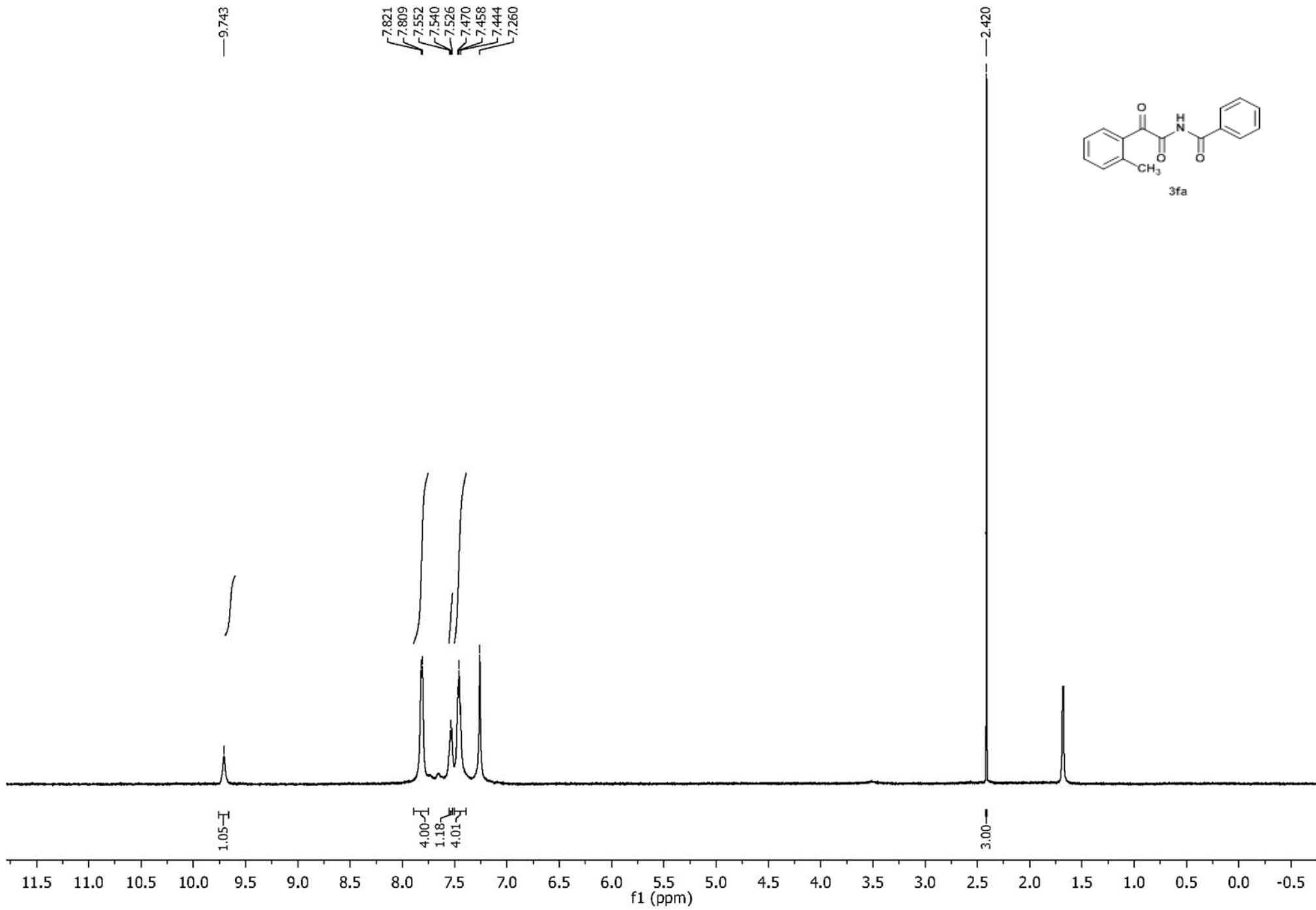


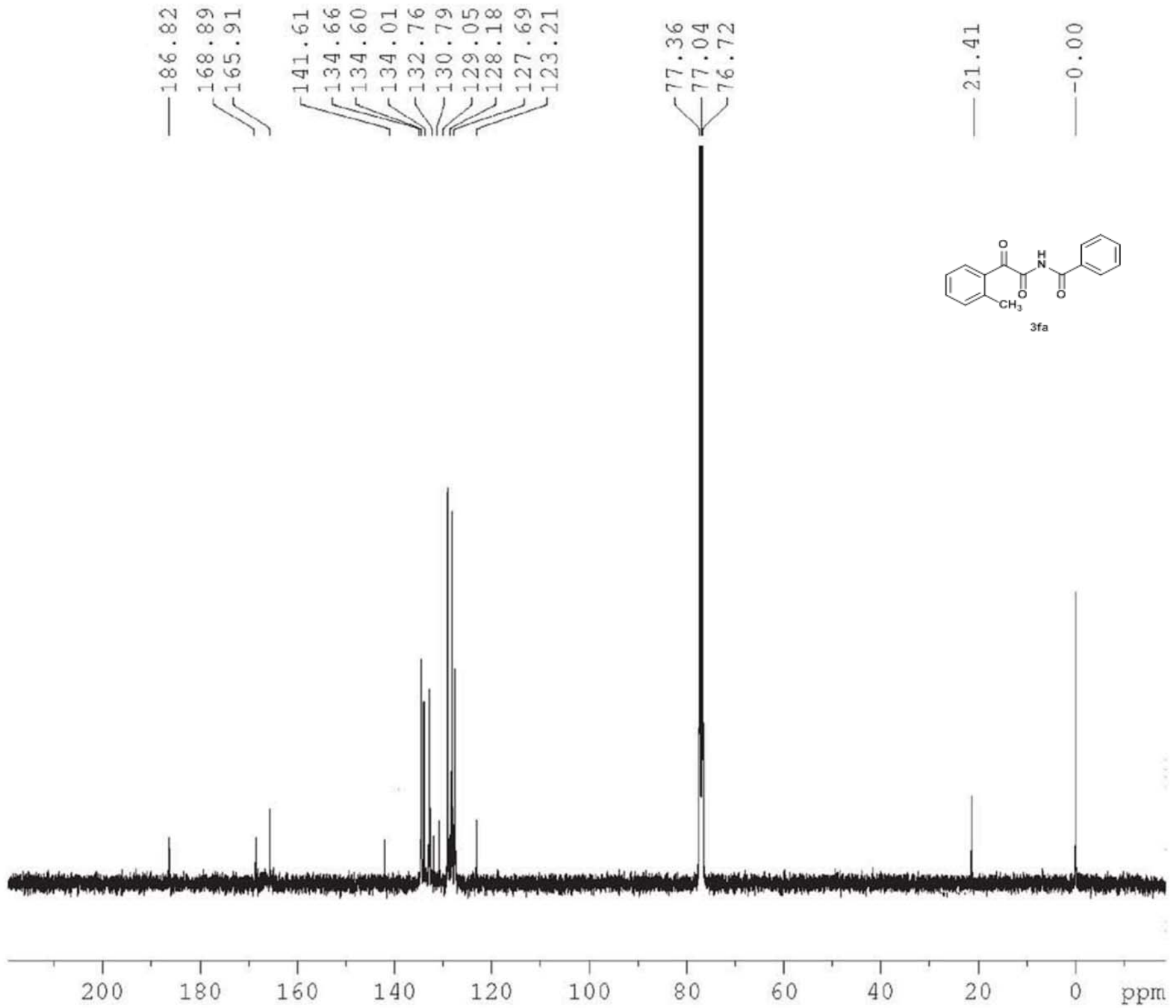
—9.667

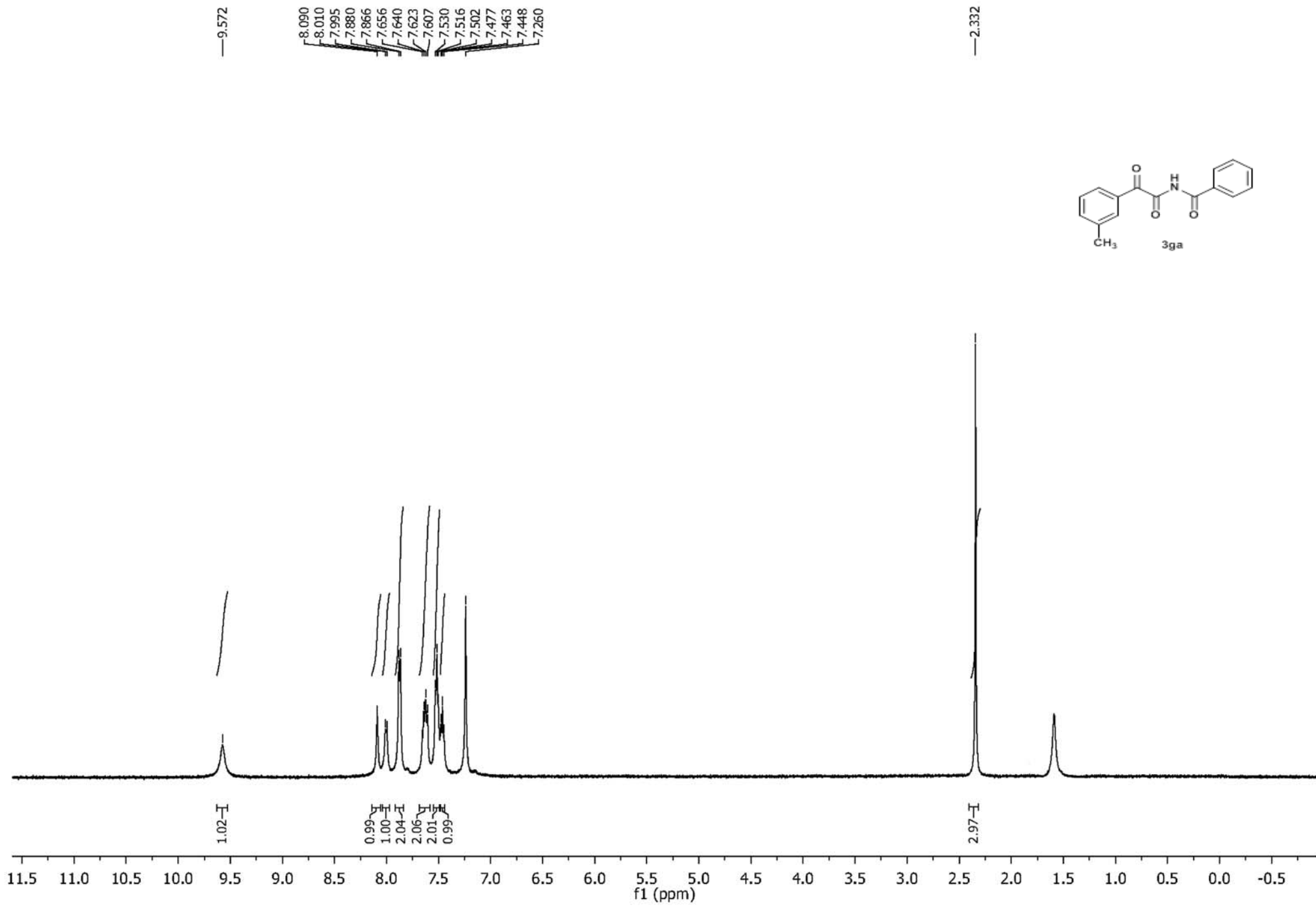
8.038
8.024
7.901
7.886
7.693
7.677
7.658
7.647
7.543
7.532
7.260











— 186.026

— 170.918

— 166.313

— 148.892

— 135.796

— 134.126

— 132.652

— 131.310

— 129.300

— 128.939

— 128.364

— 128.284

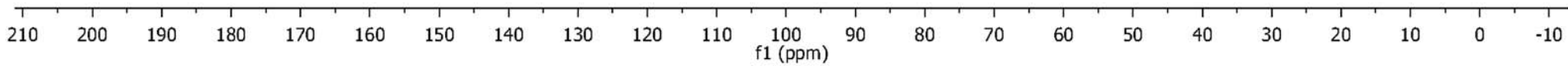
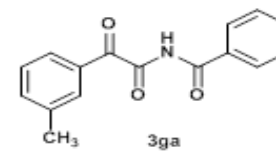
— 127.744

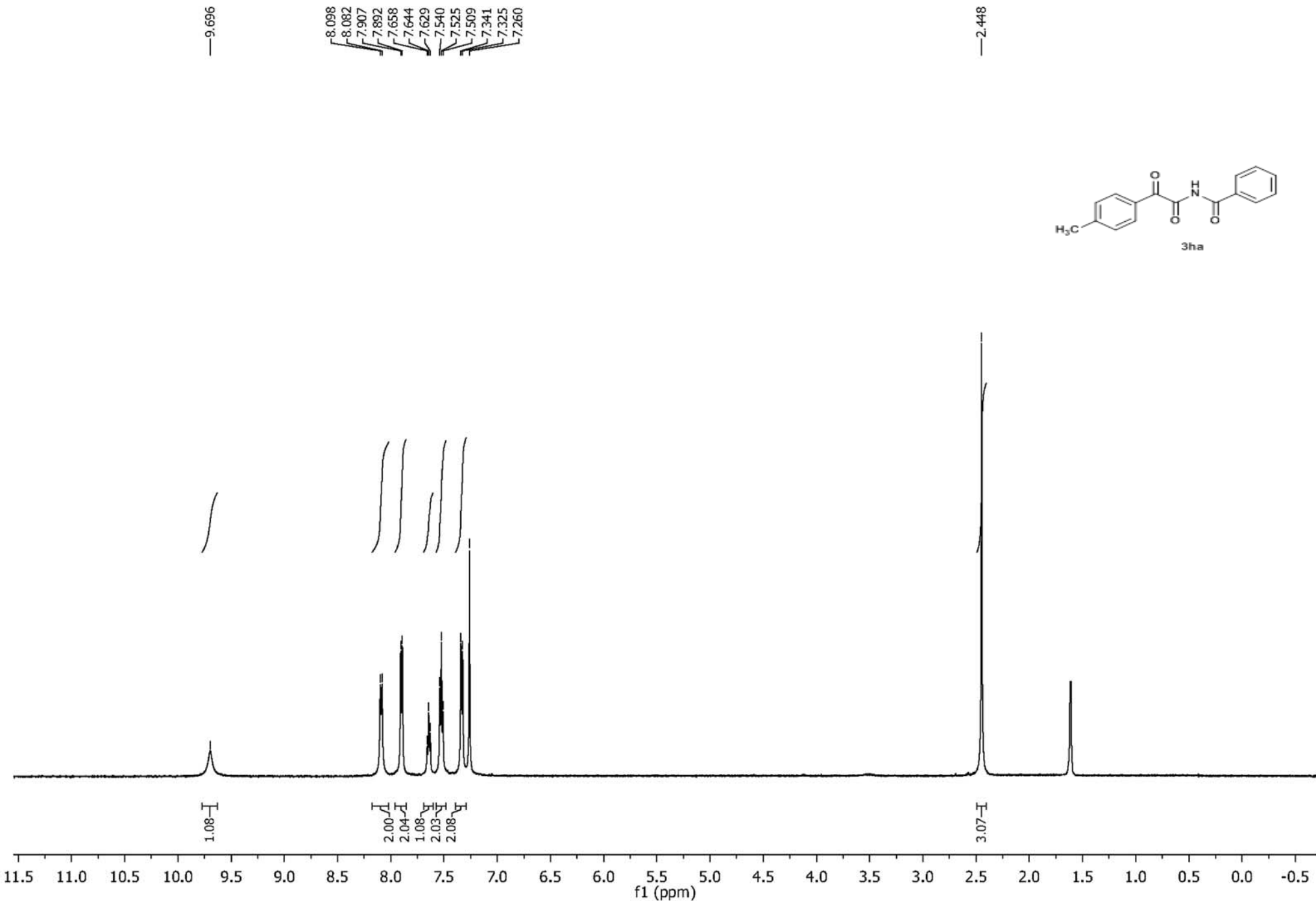
— 77.413

— 77.160

— 76.906

— 21.438





— 187.247

— 171.071

— 167.086

— 145.004

— 133.898

— 130.436

— 129.966

— 129.681

— 128.974

— 128.746

40.327

40.048

39.771

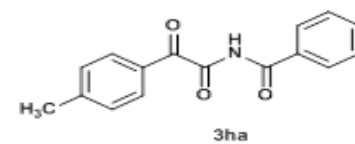
39.492

39.215

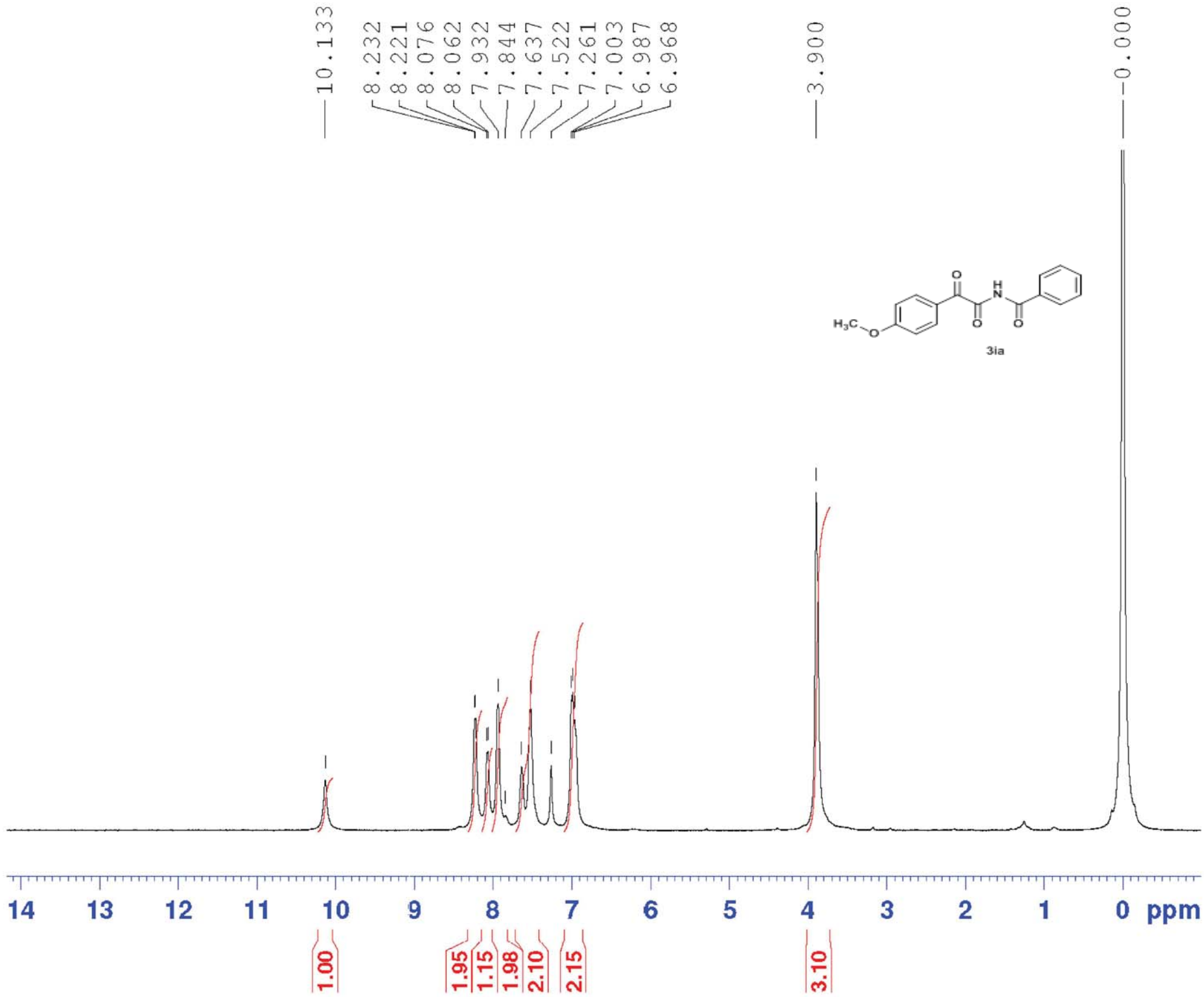
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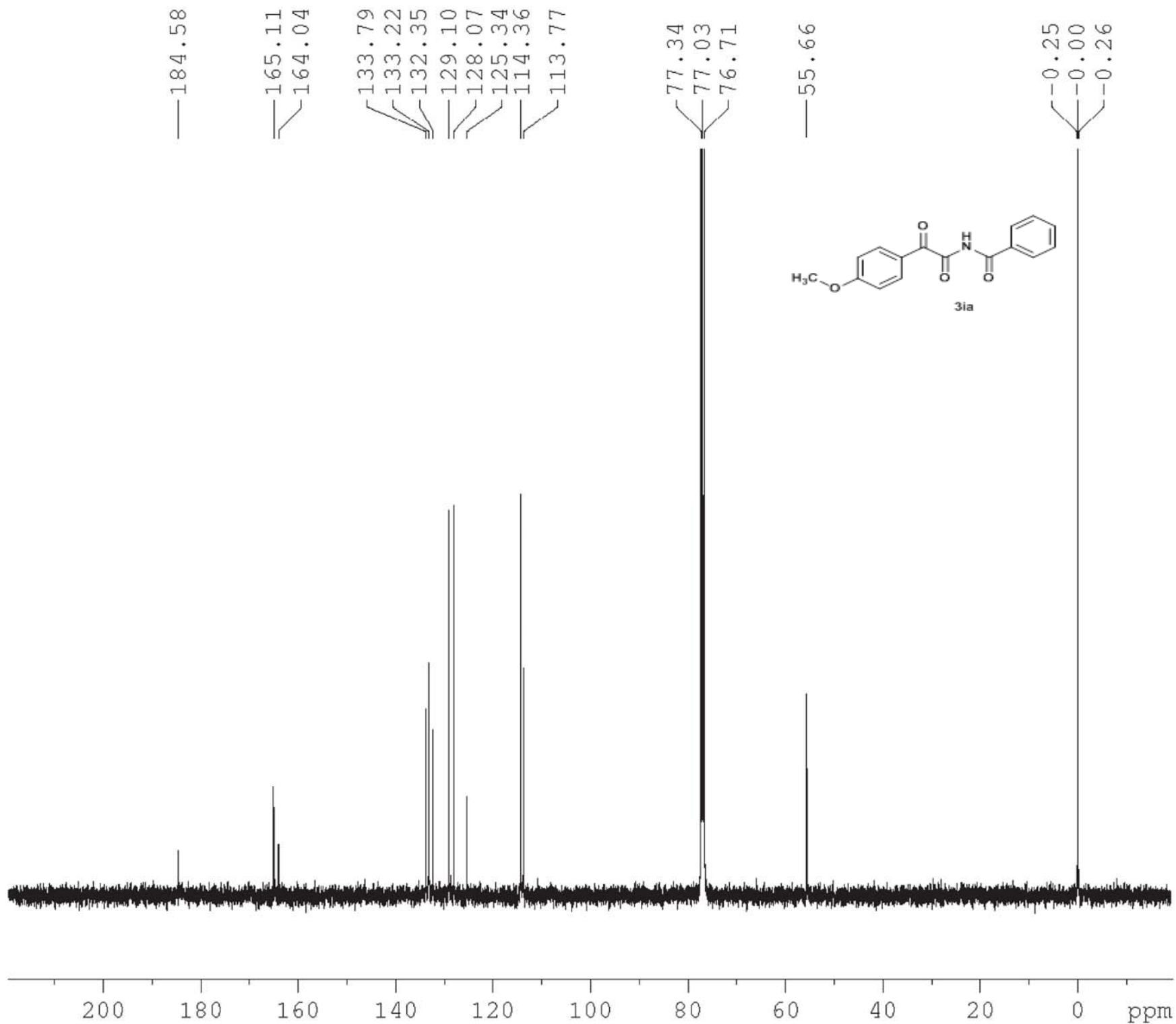
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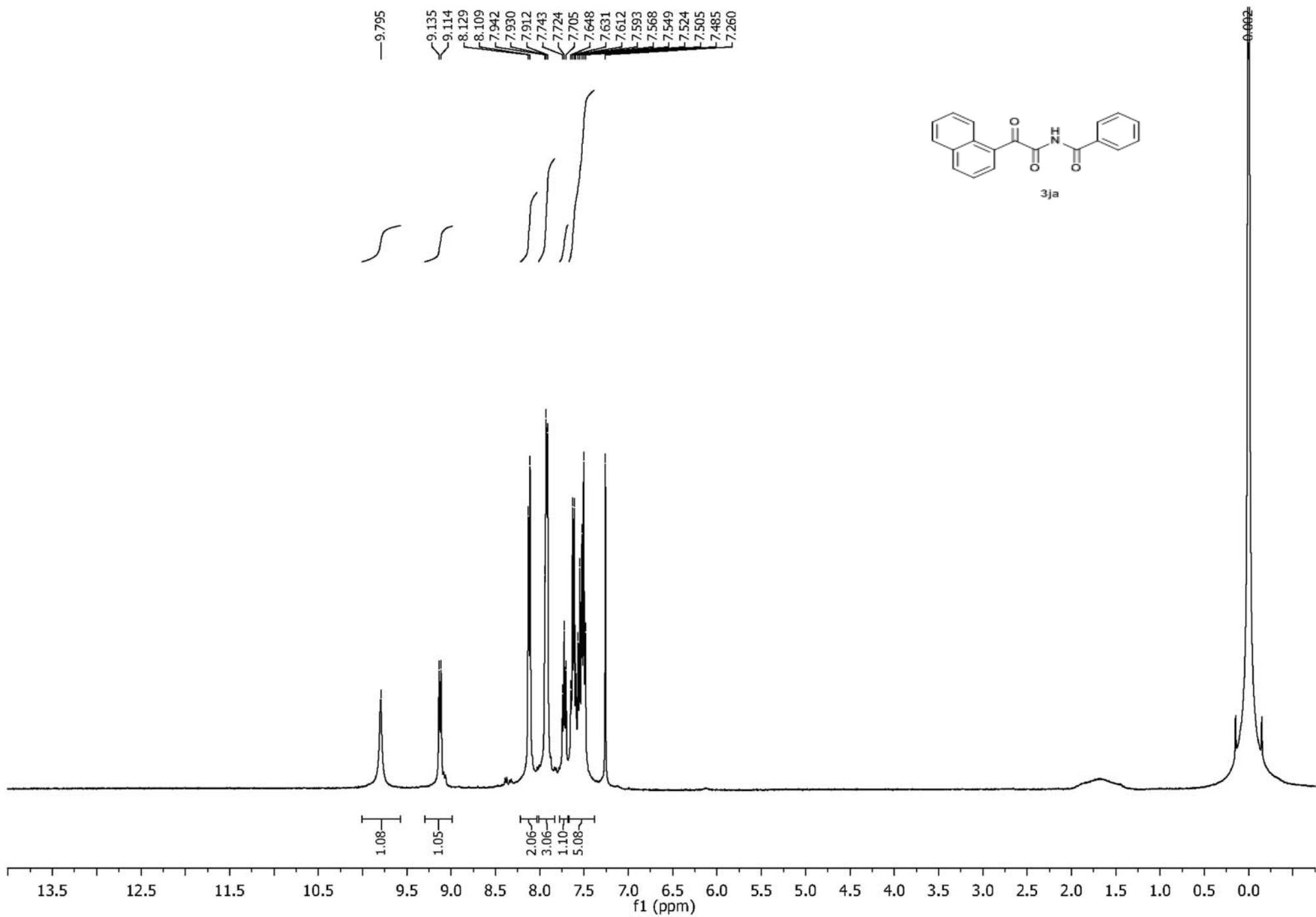
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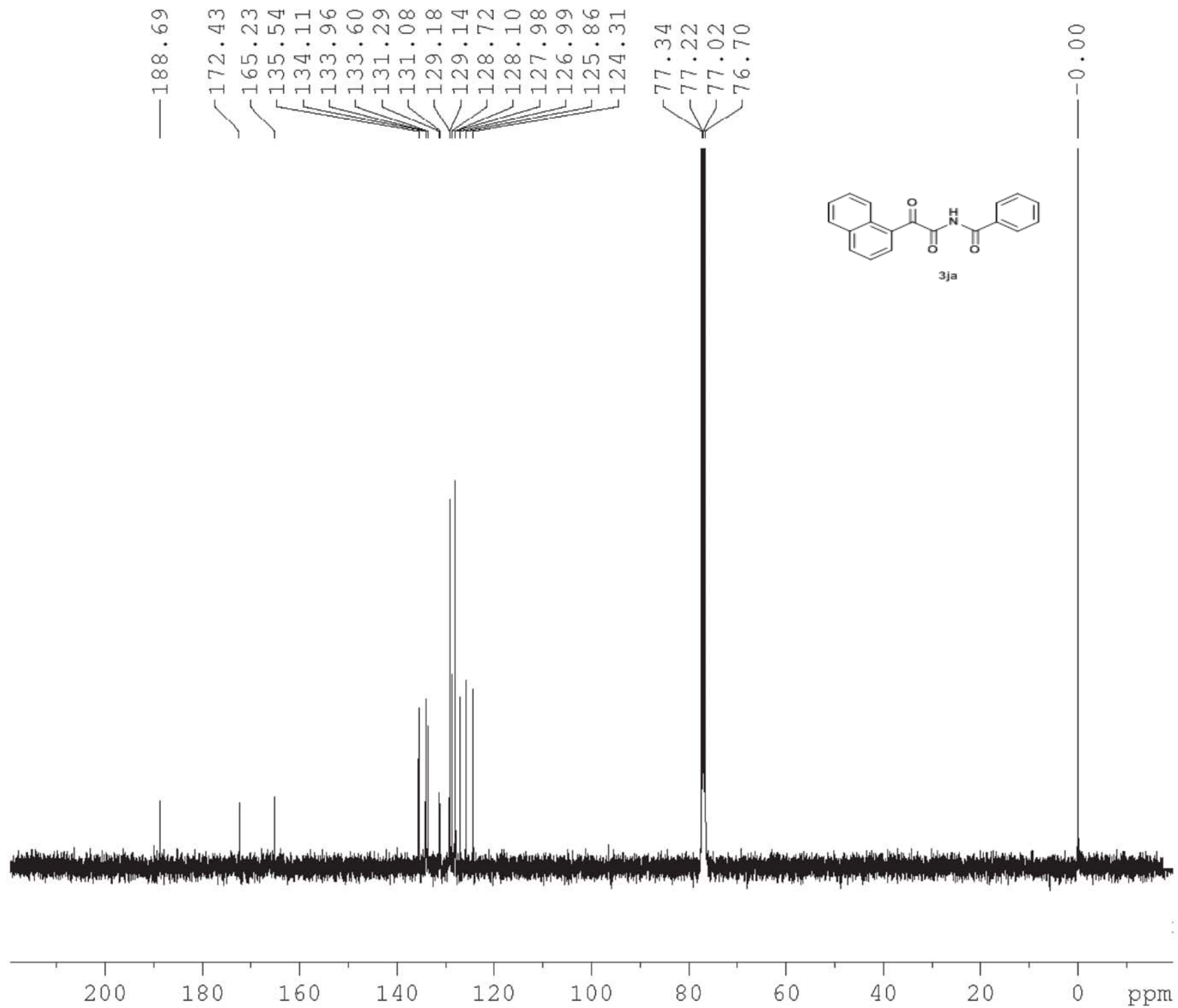


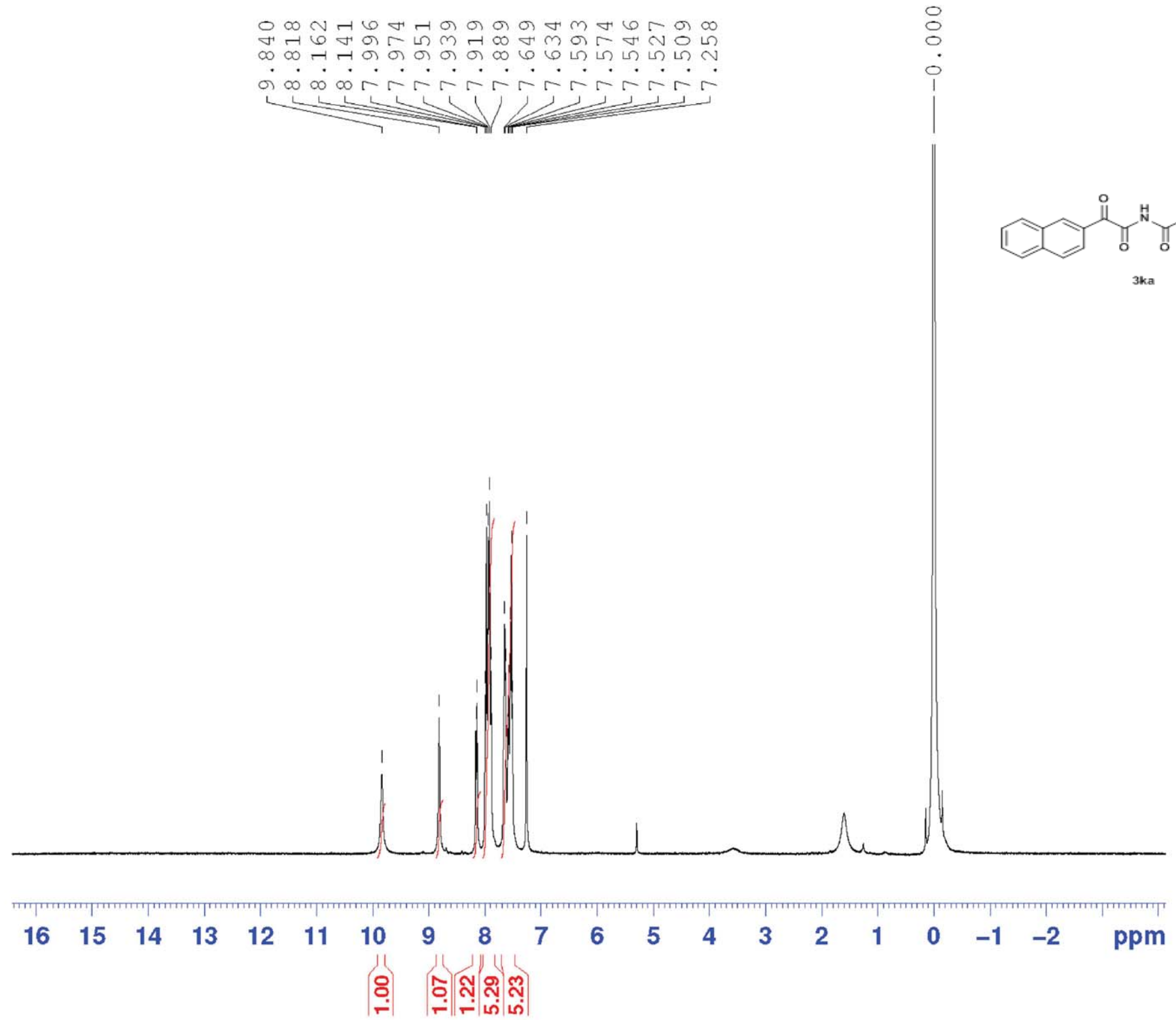
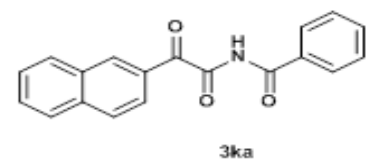
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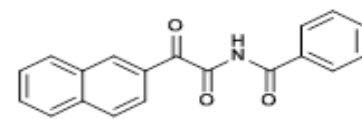
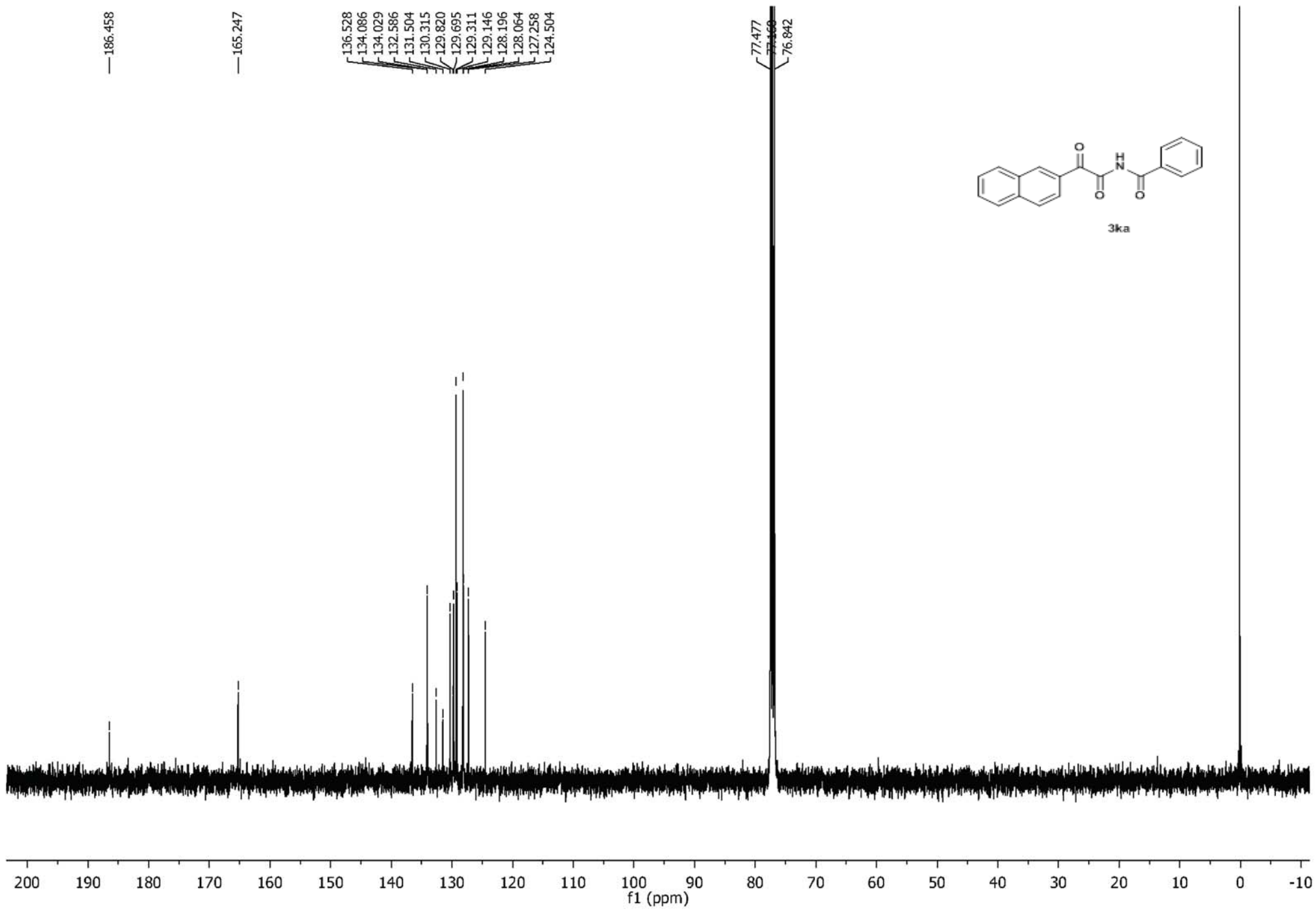




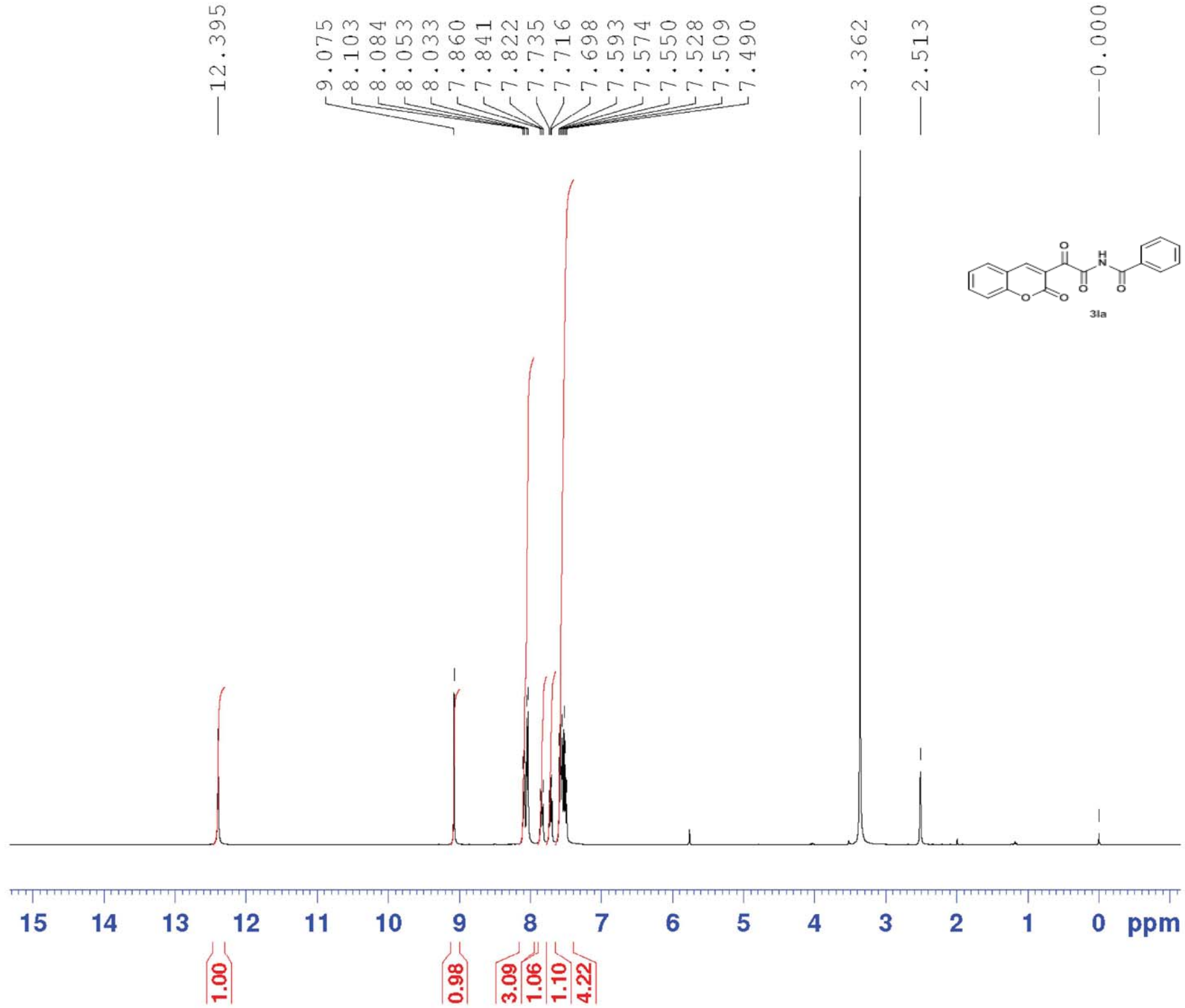


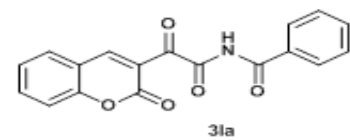
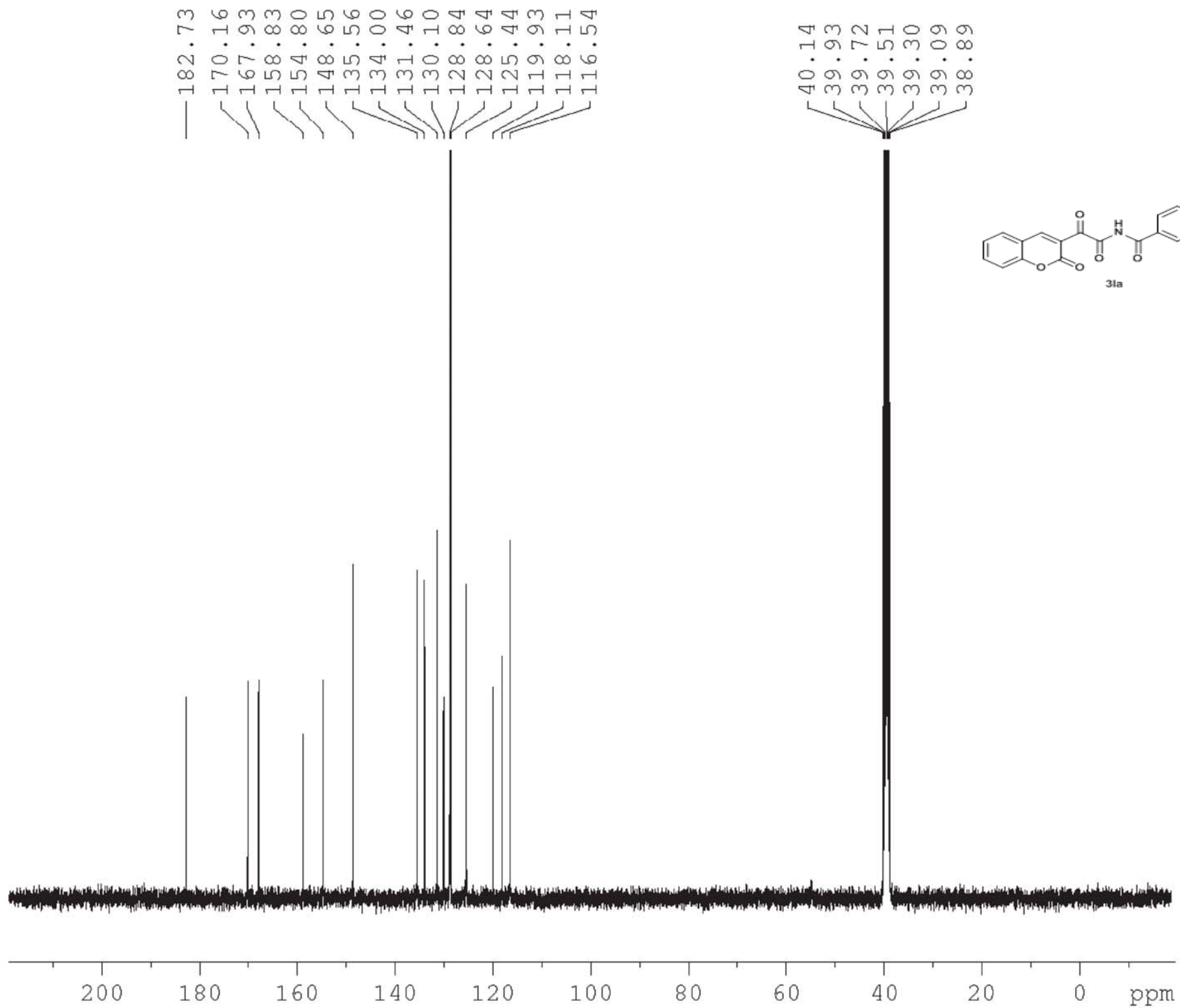


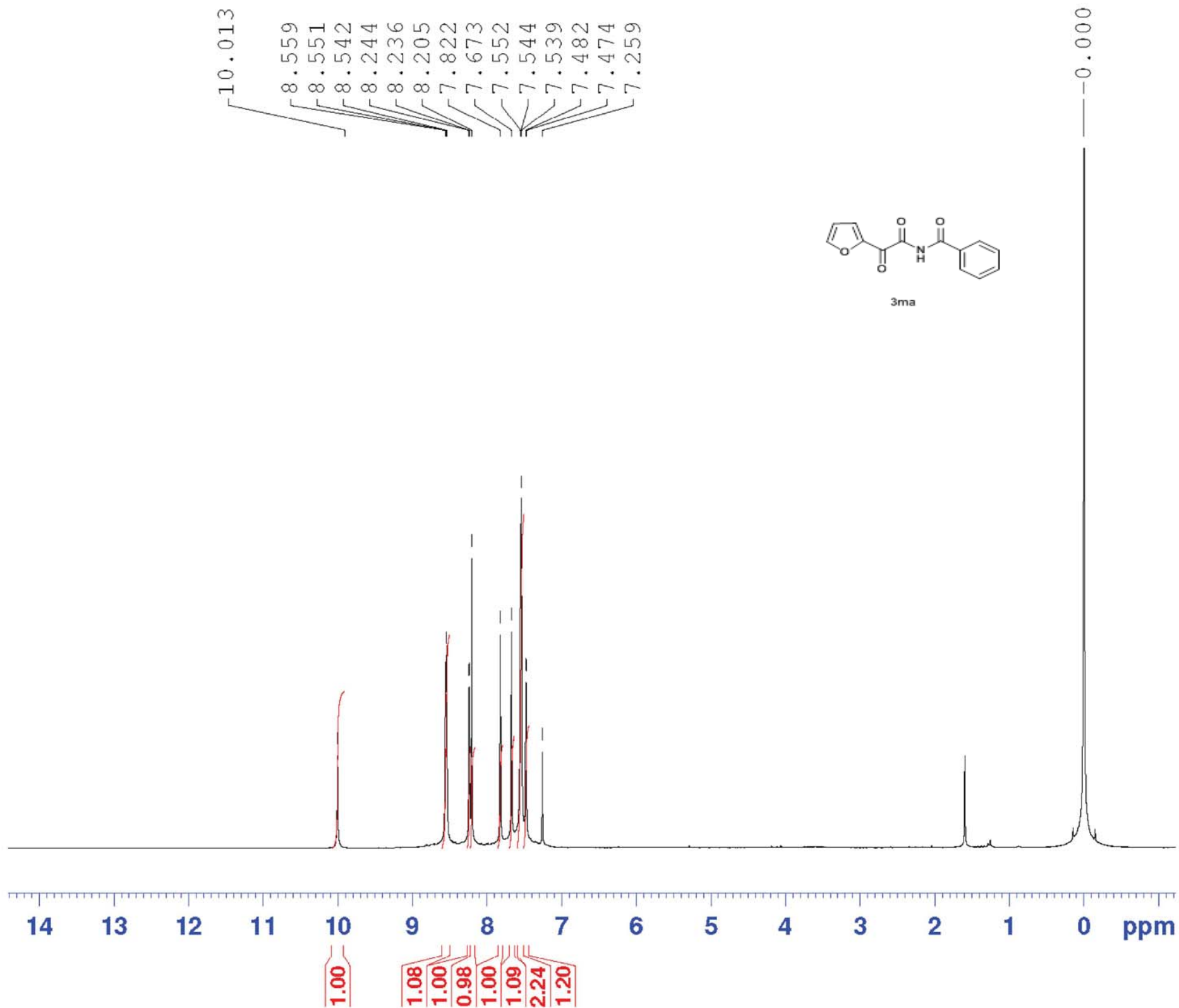


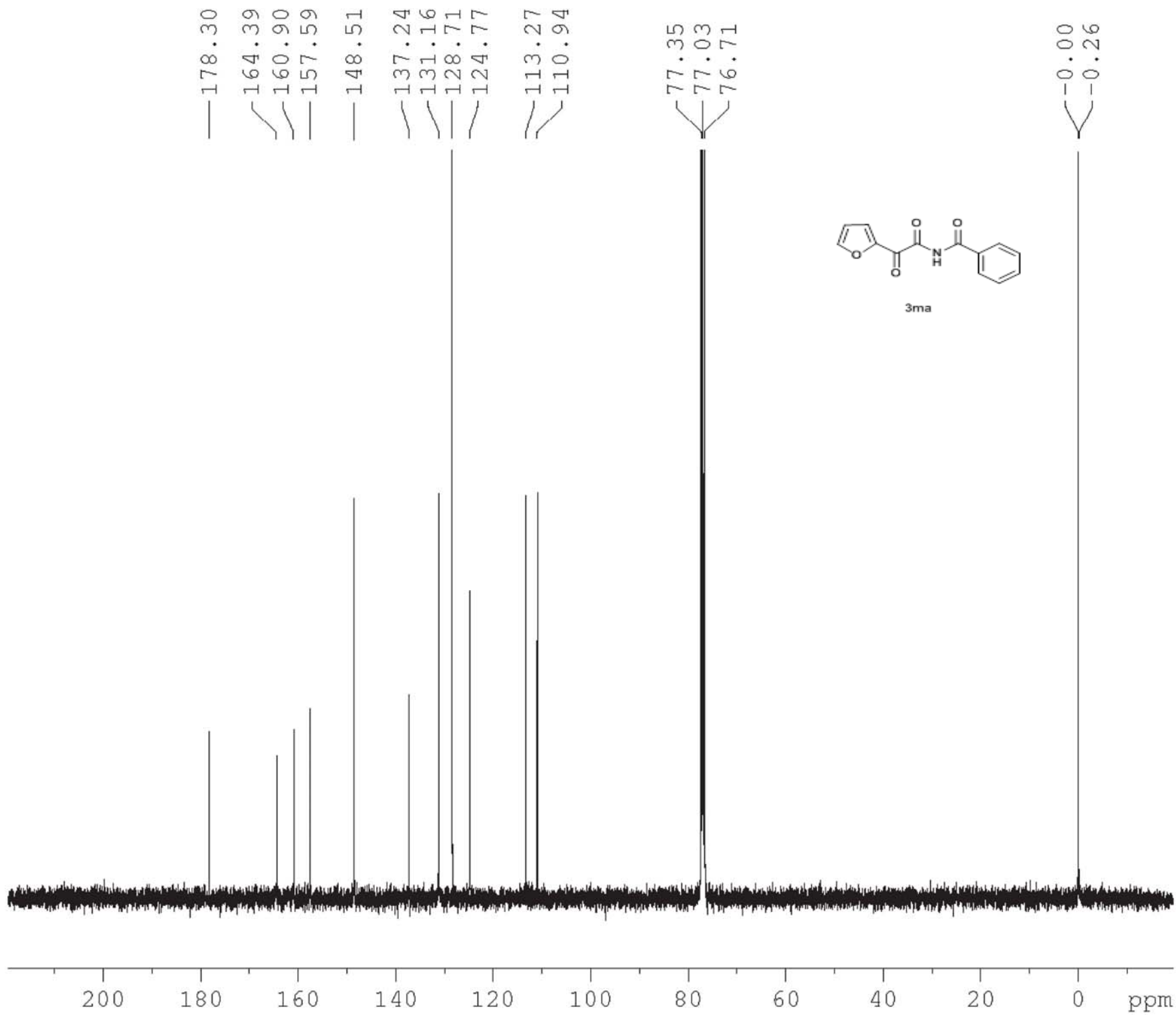


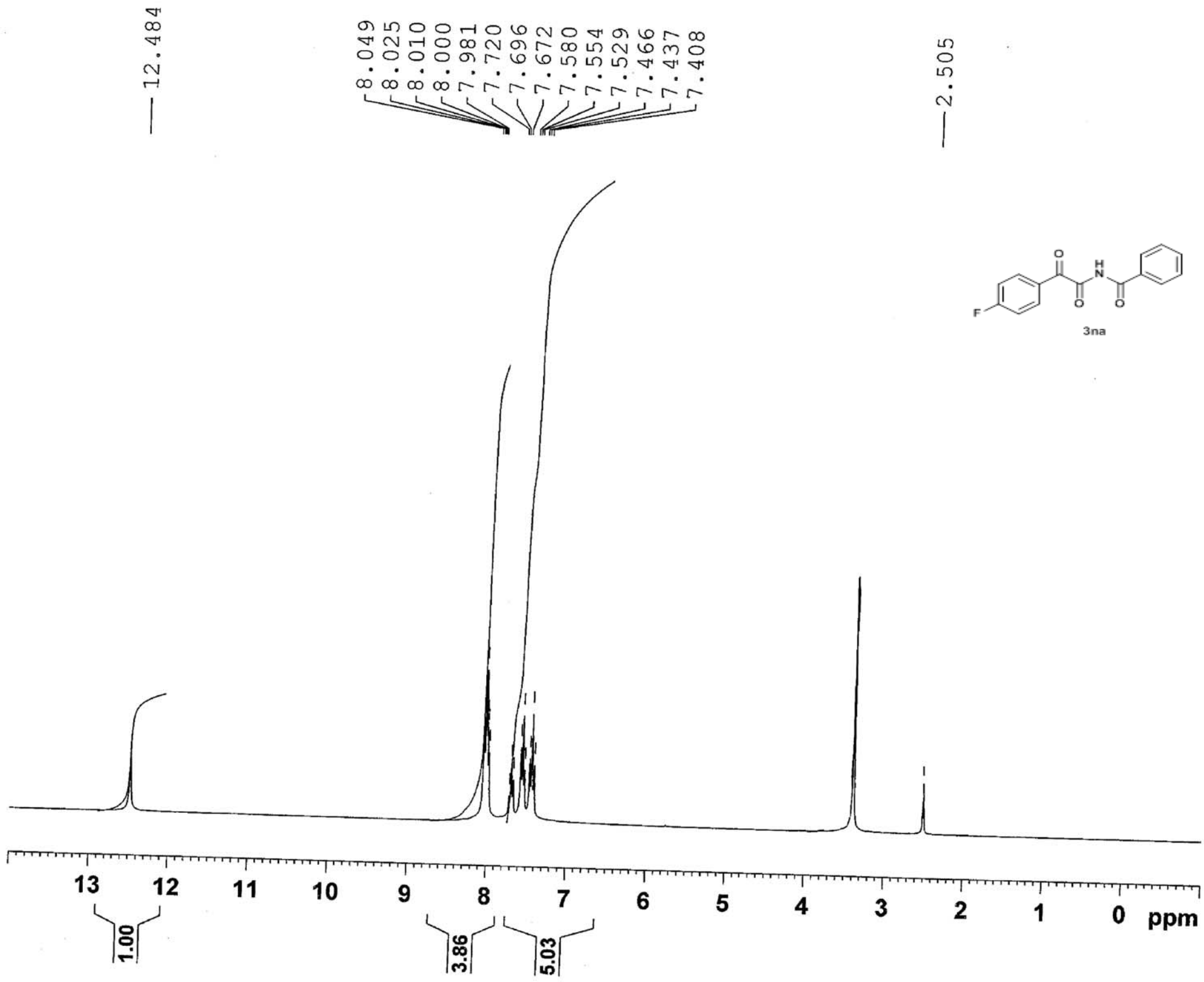
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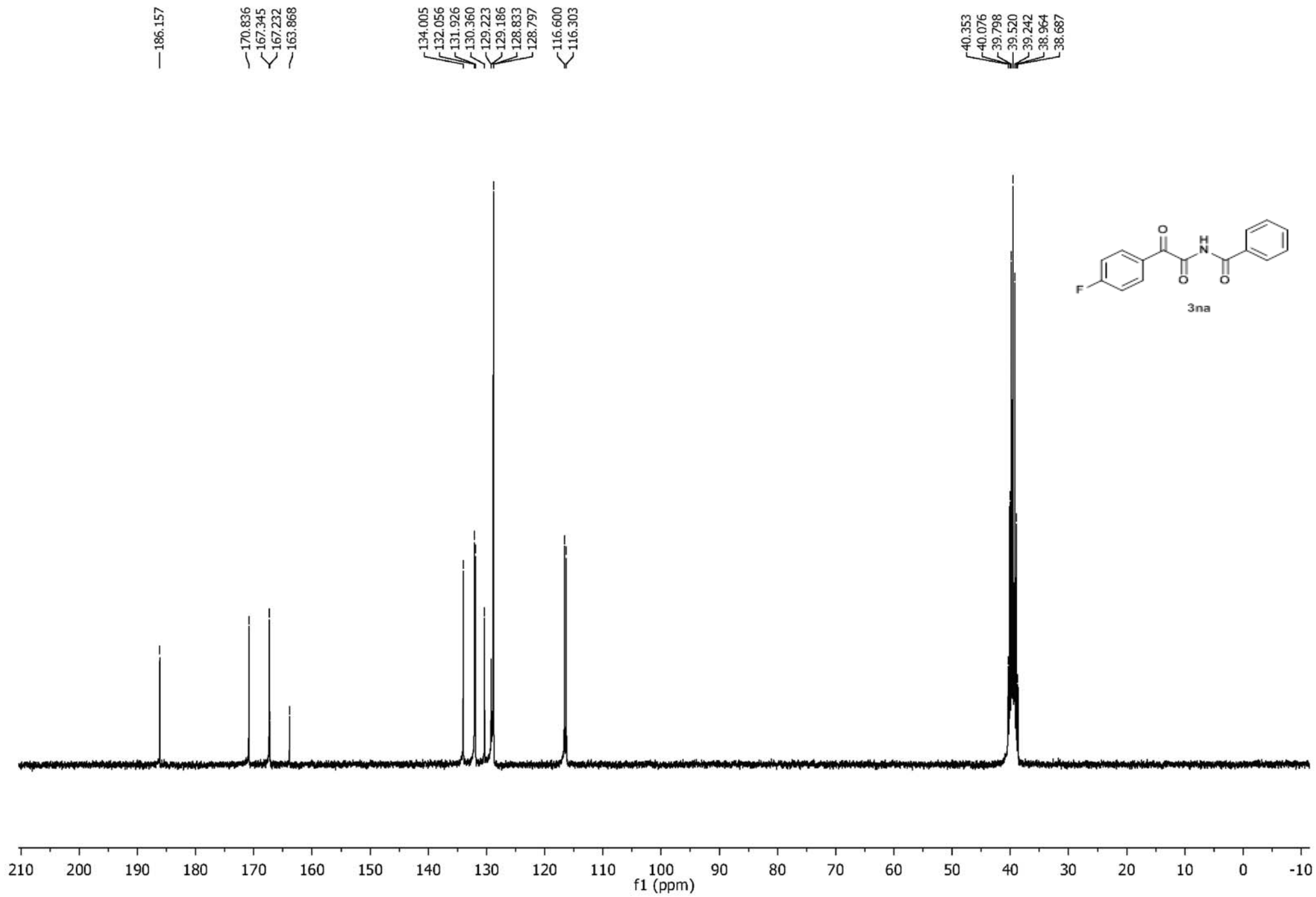






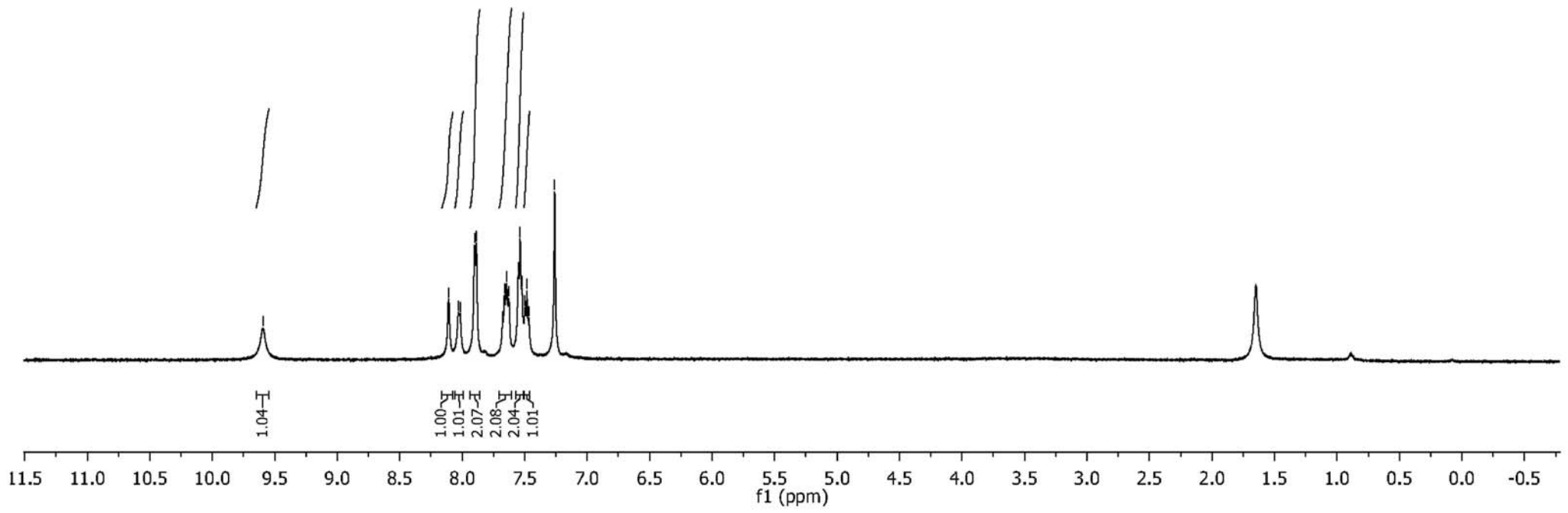
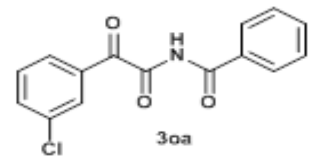


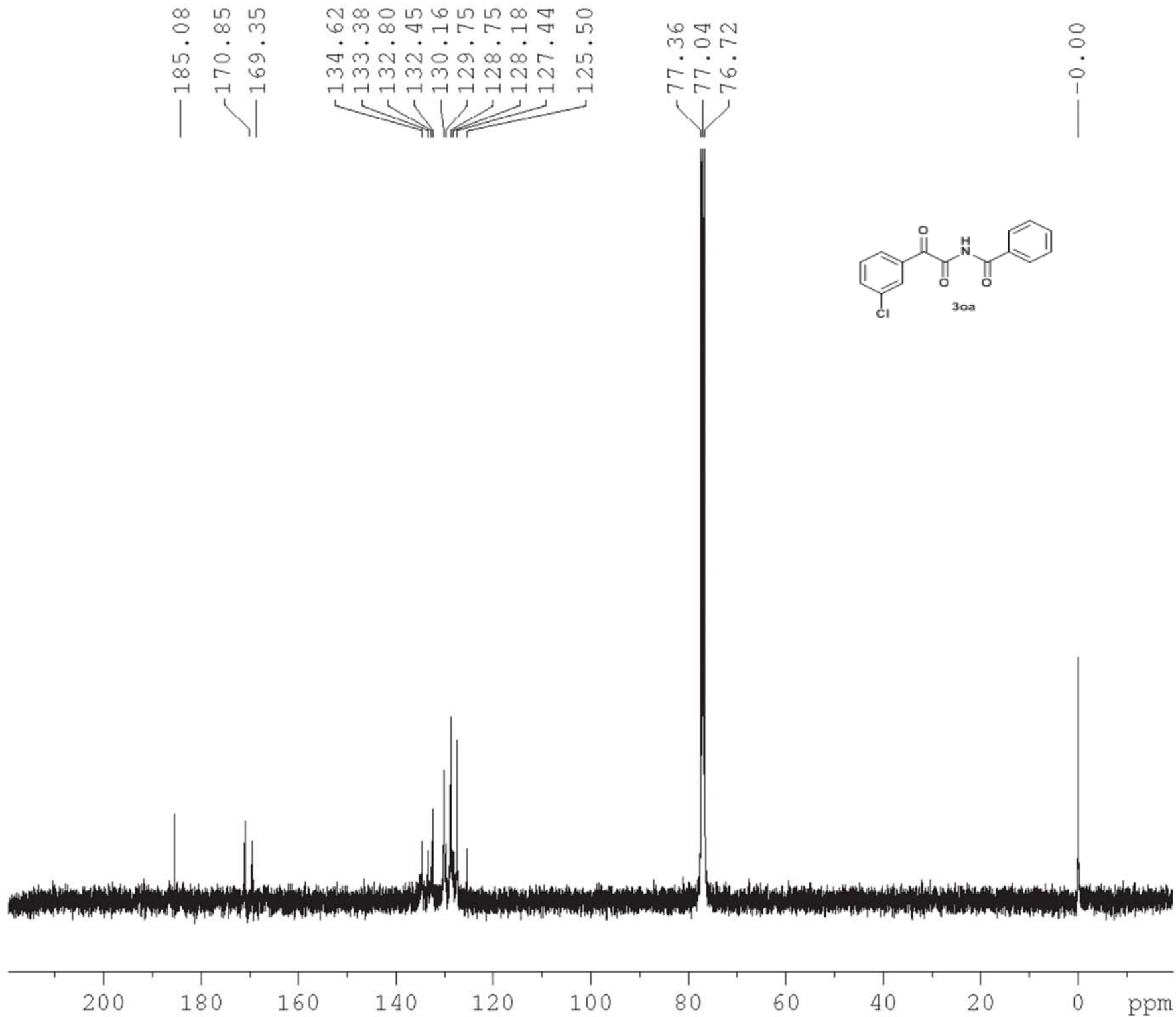




—9.592

8.110
8.031
8.015
7.901
7.886
7.677
7.660
7.643
7.626
7.550
7.536
7.523
7.498
7.483
7.468
7.260

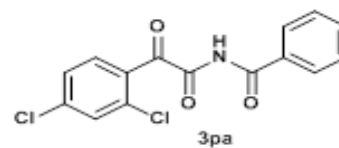




—12.548

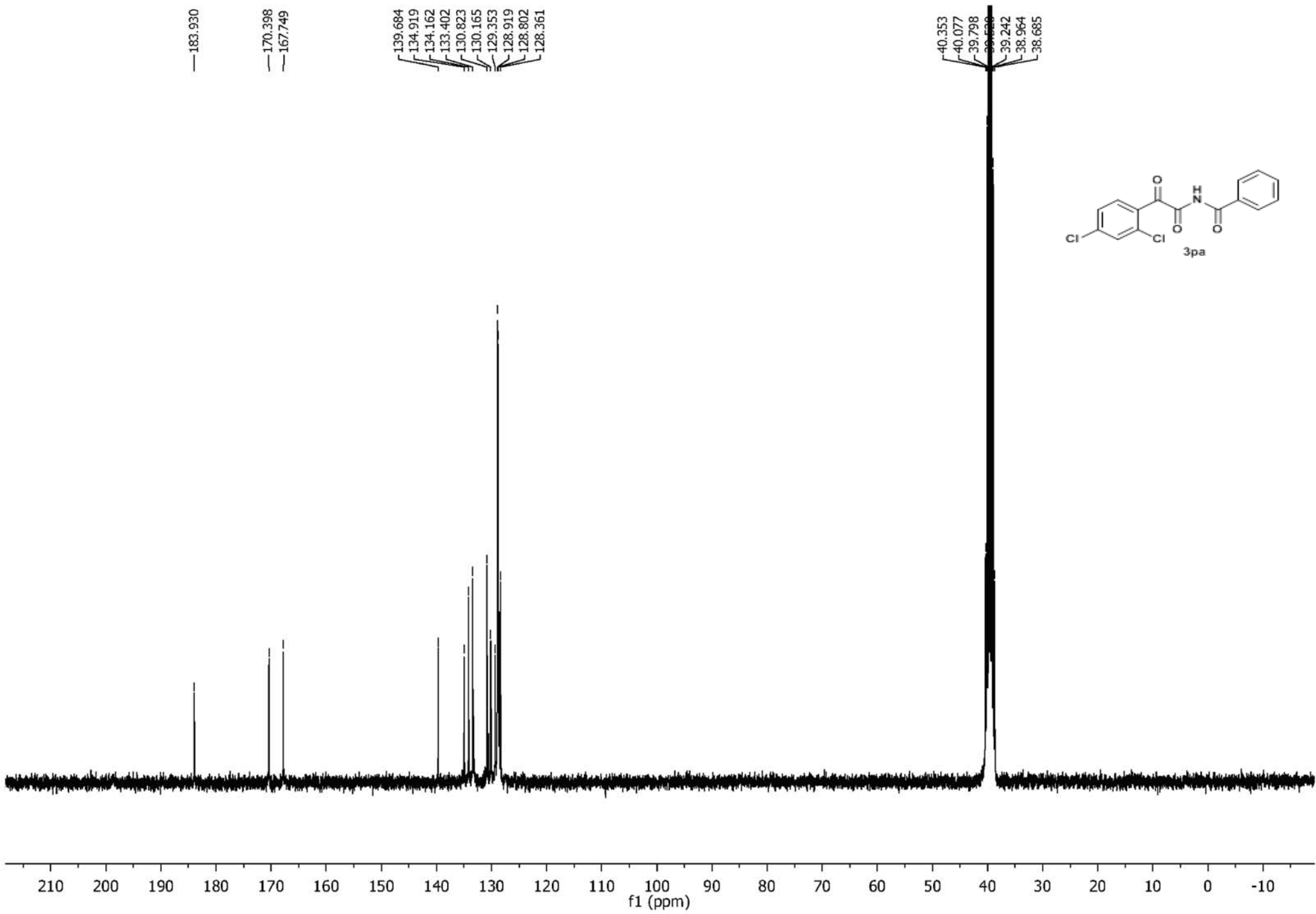
8.101
8.071
8.043
7.958
7.934
7.861
7.746
7.714
7.685
7.662
7.625
7.602
7.579
7.553

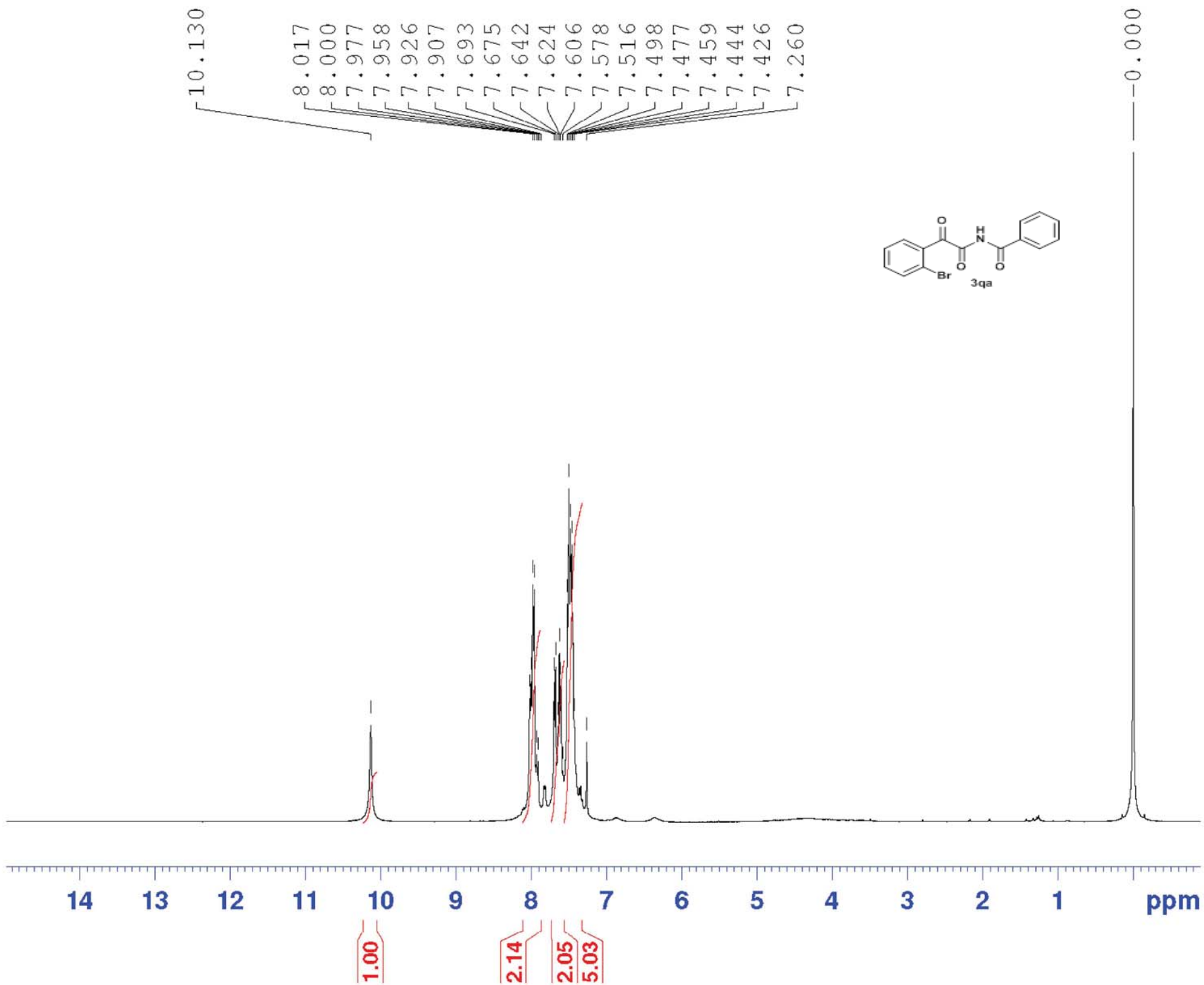
—2.515

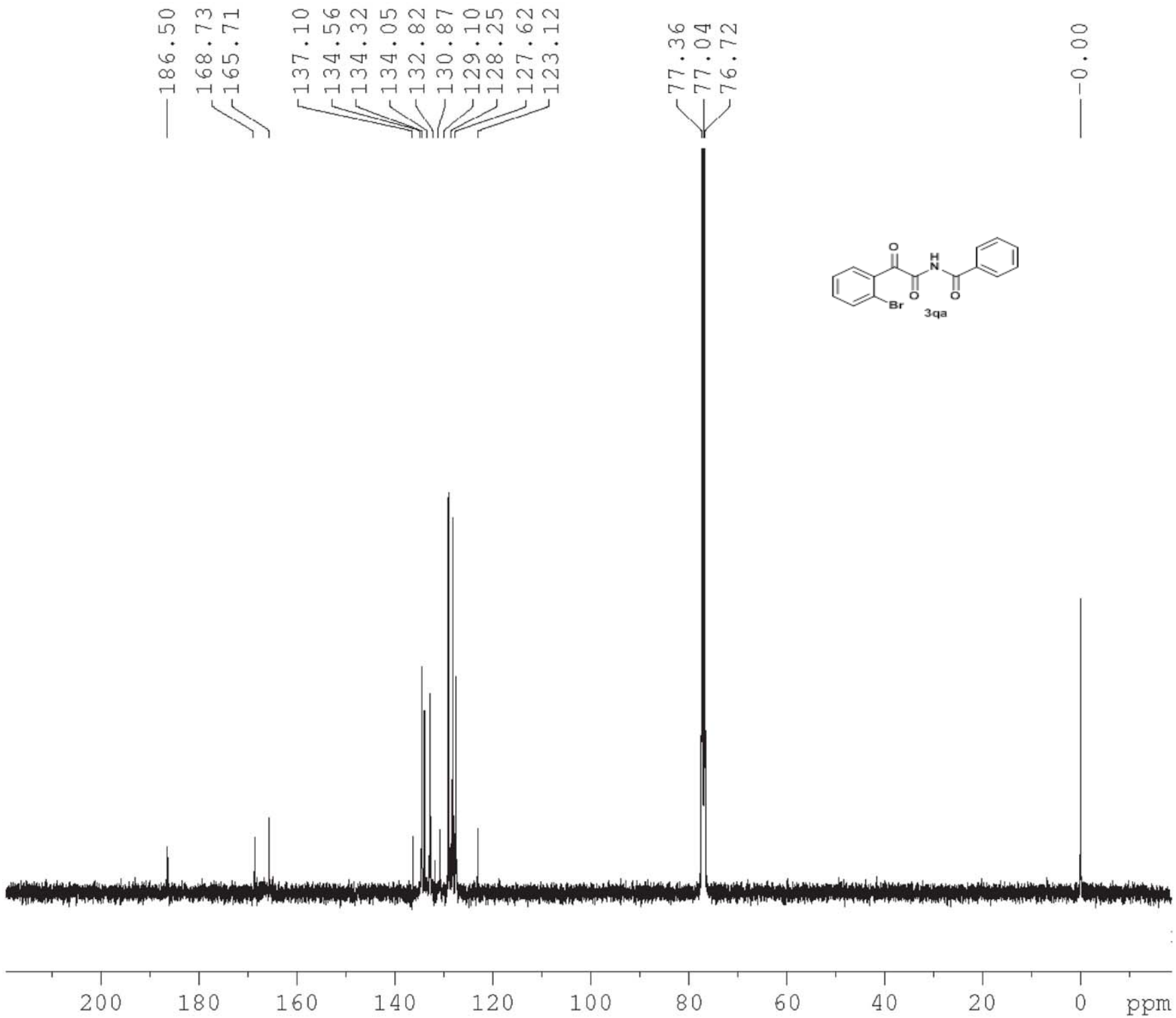


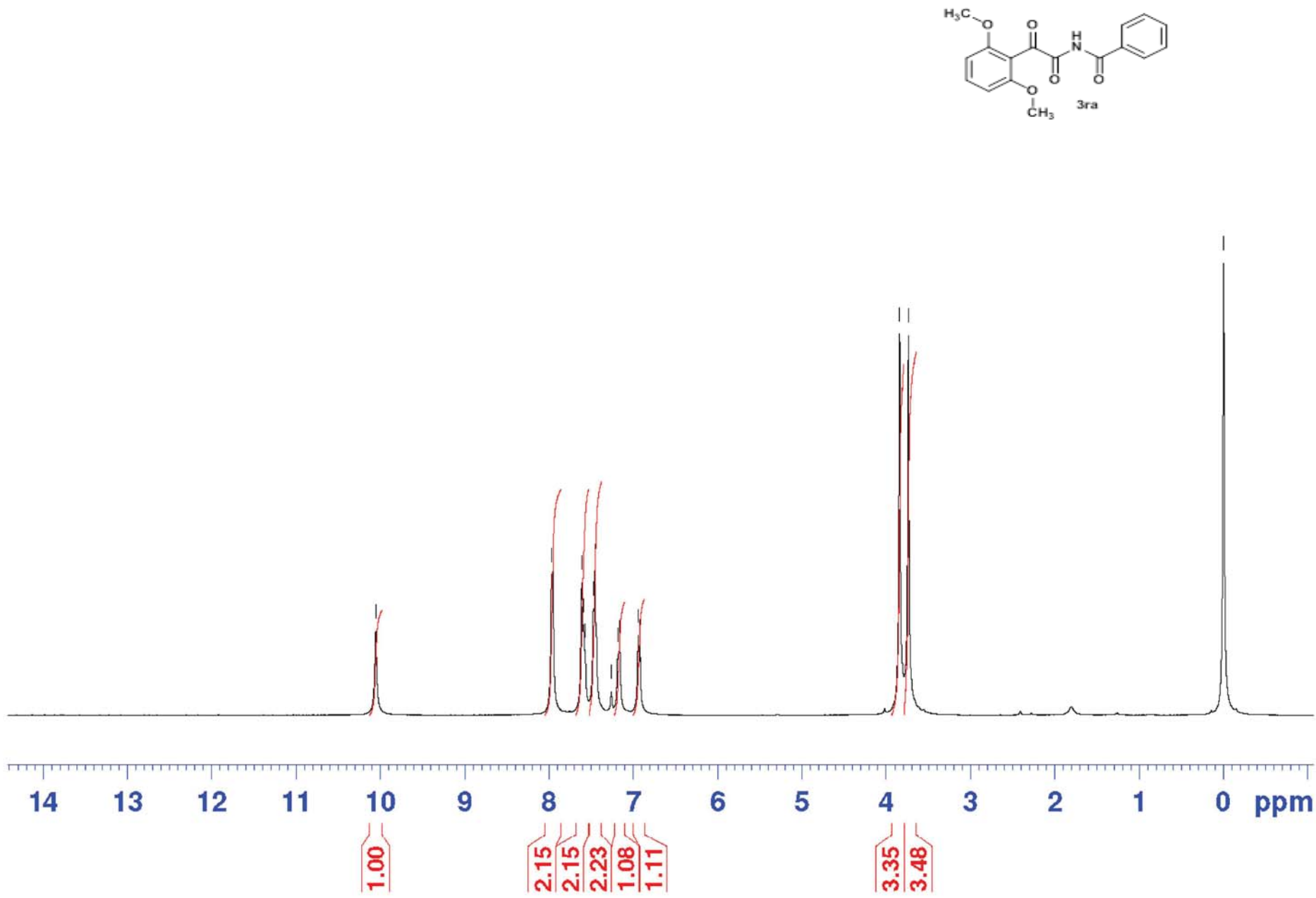
1.00

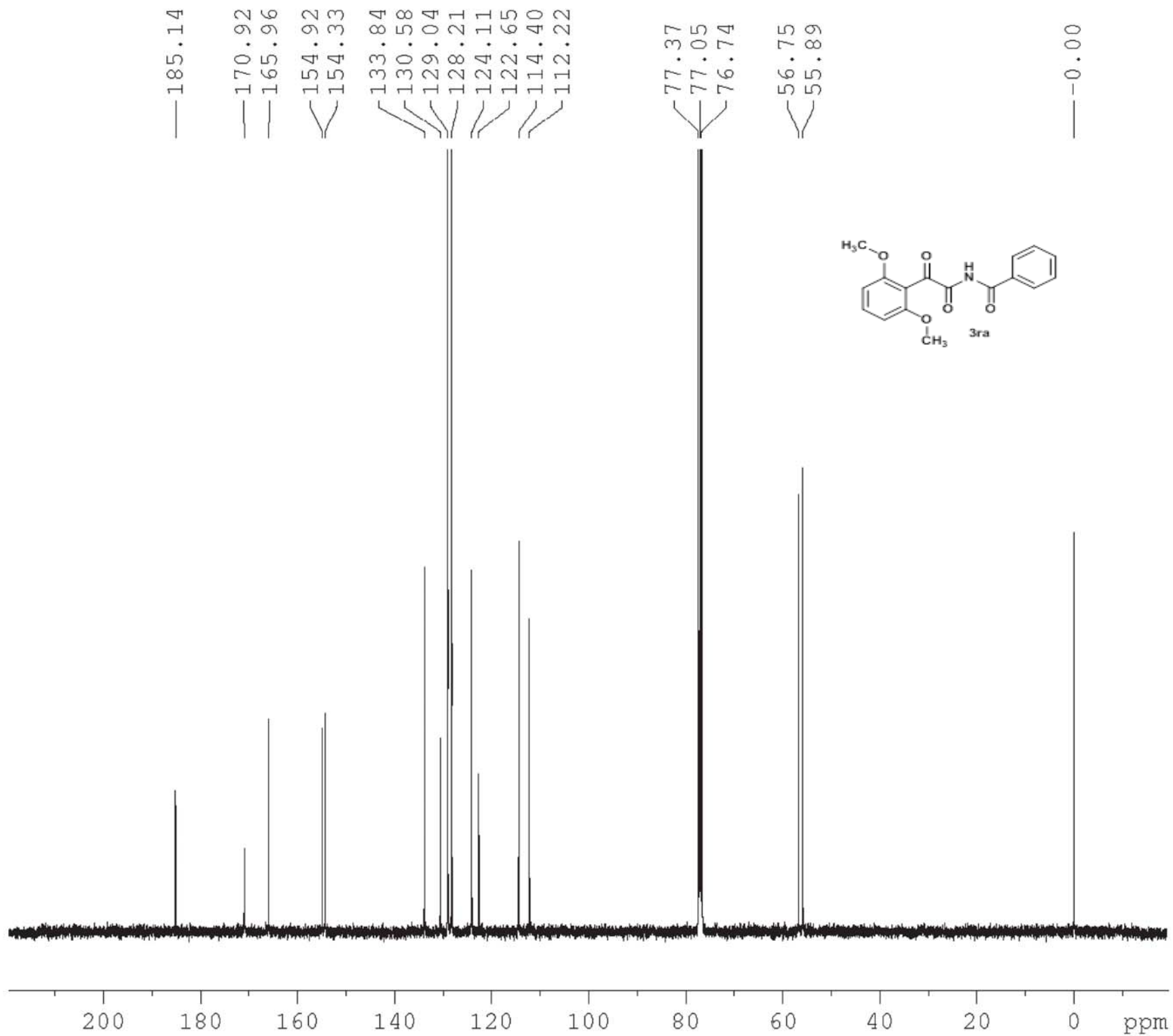
2.05
0.87
1.14
2.03
2.20

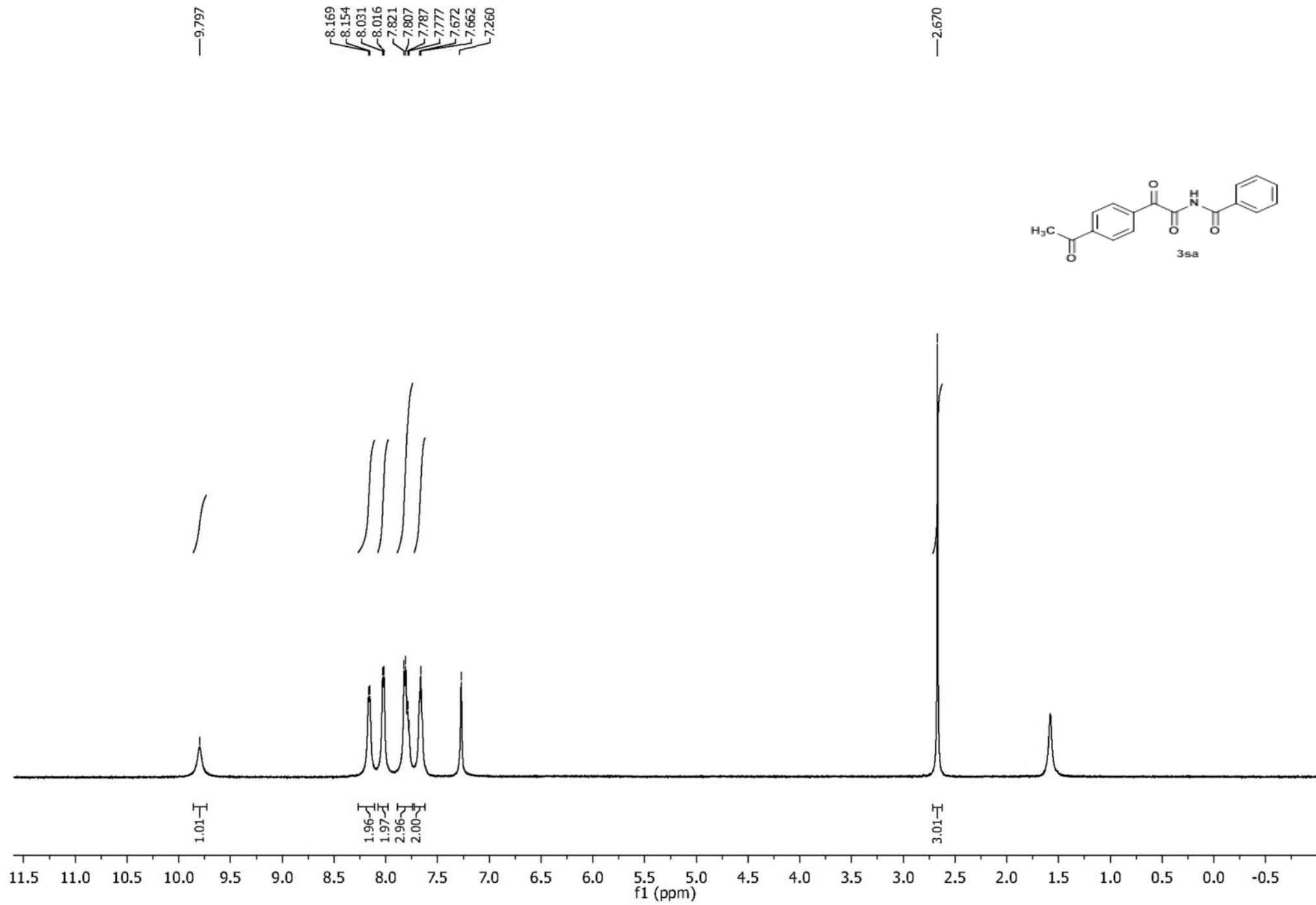


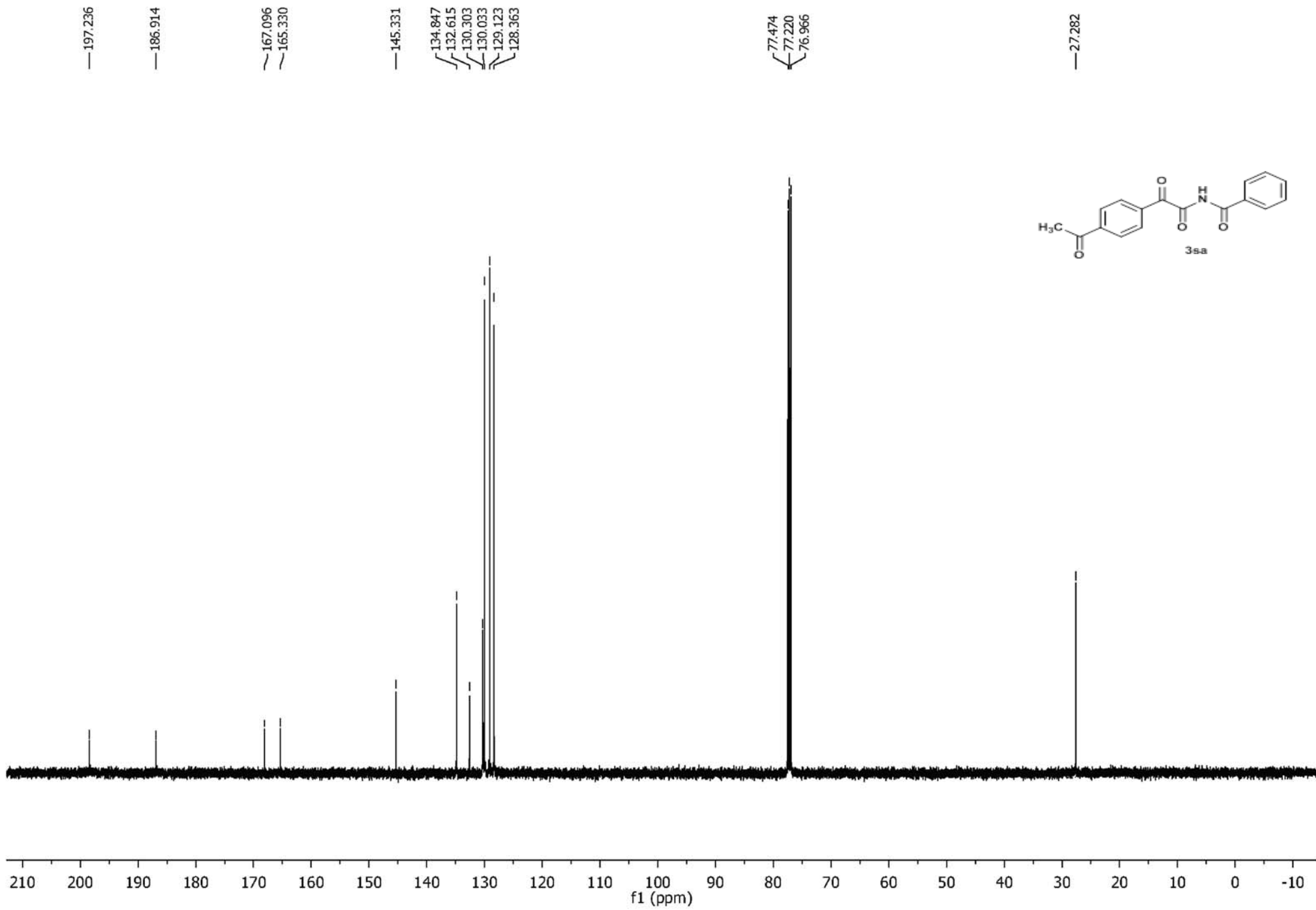


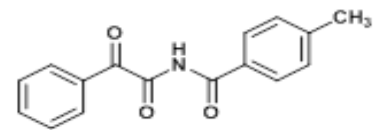
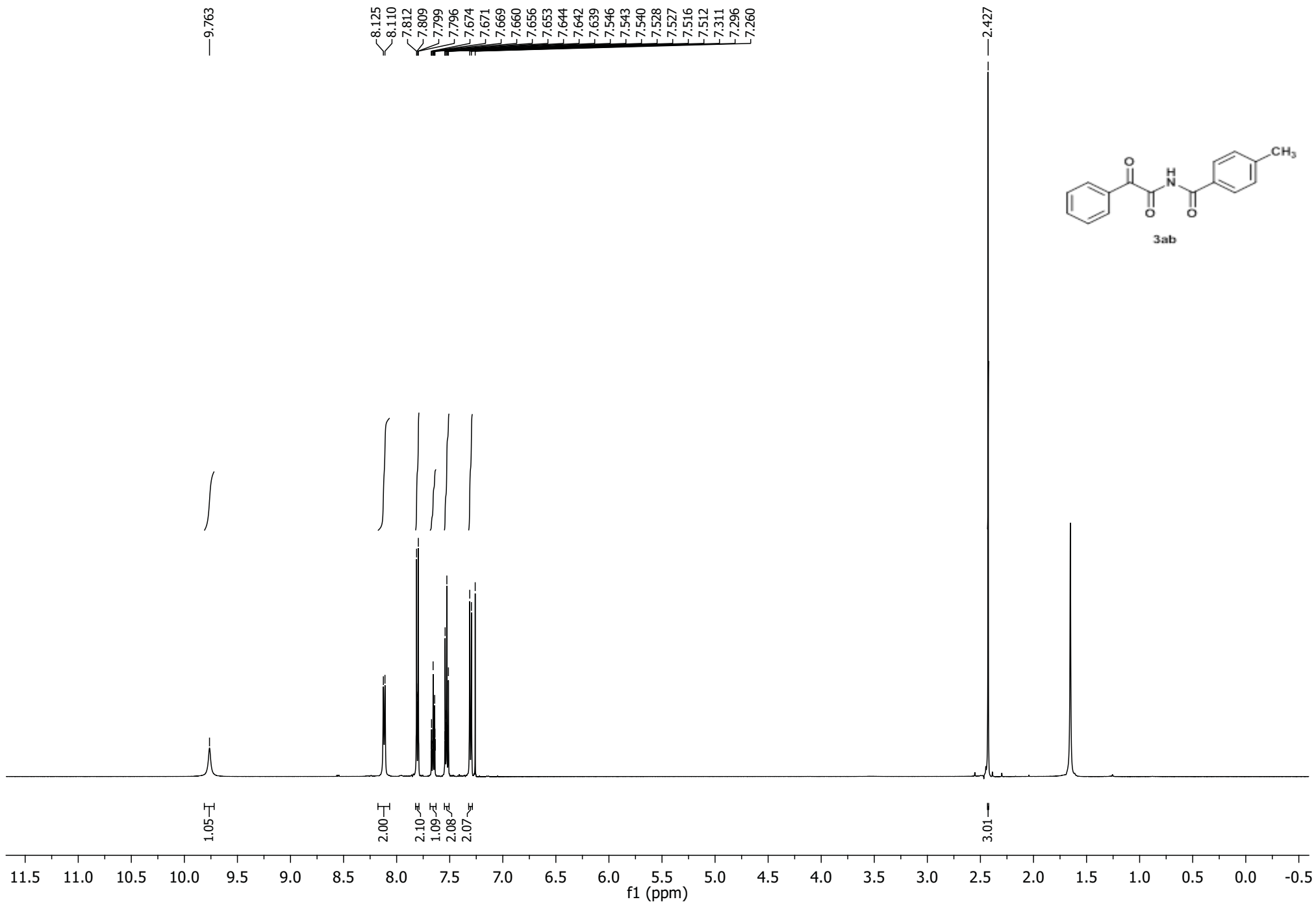




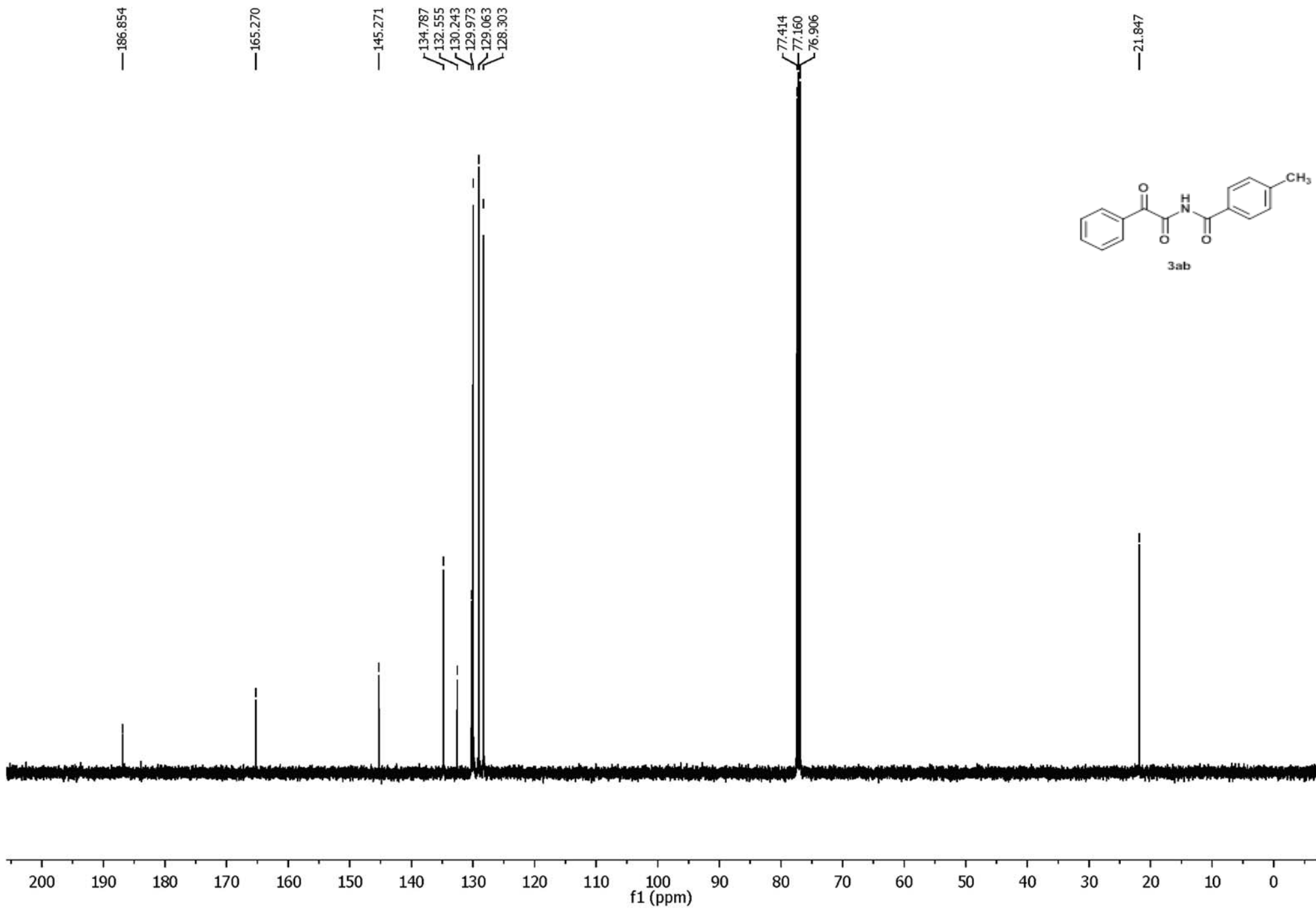


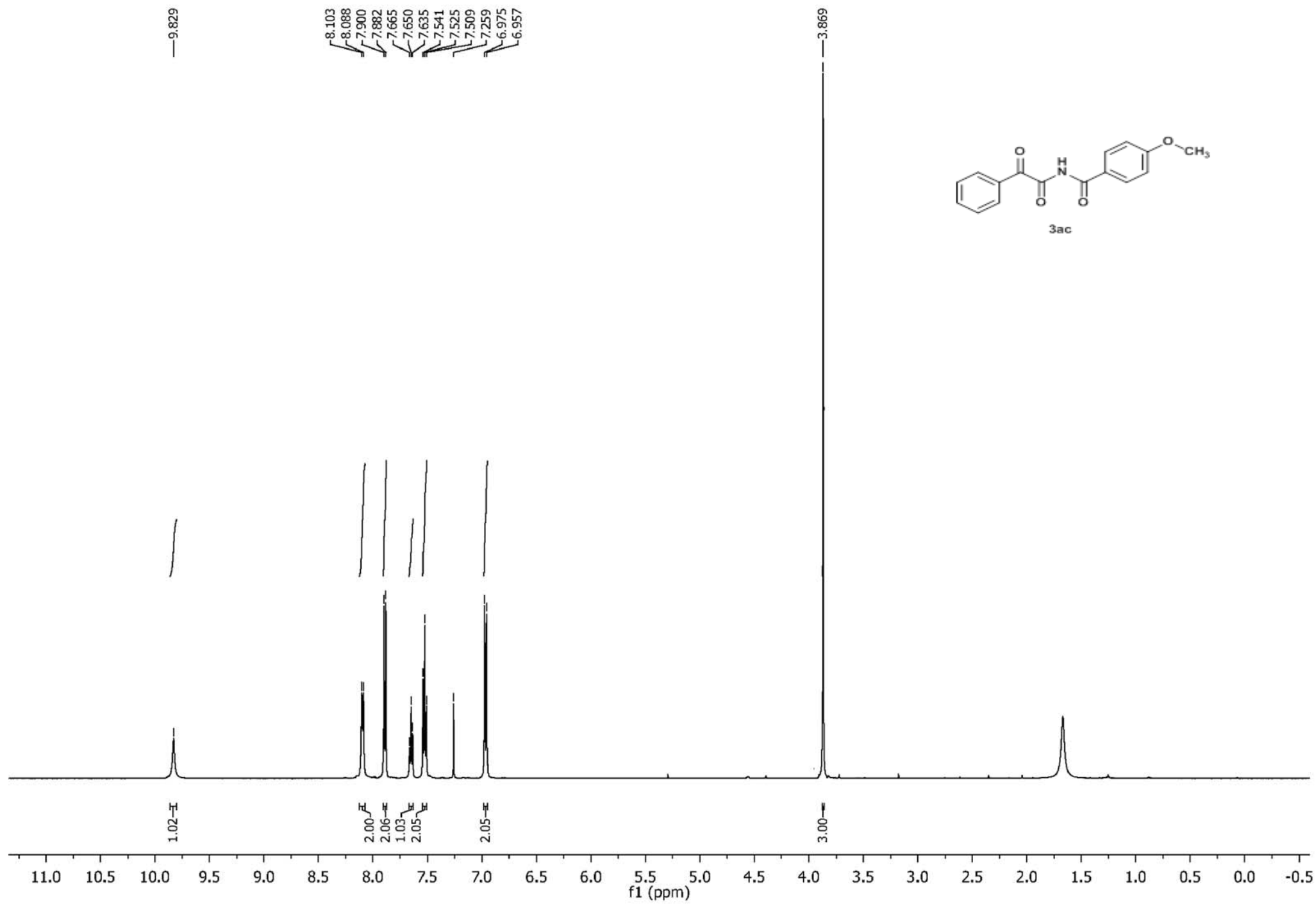






3ab





—186.991

164.798
164.424

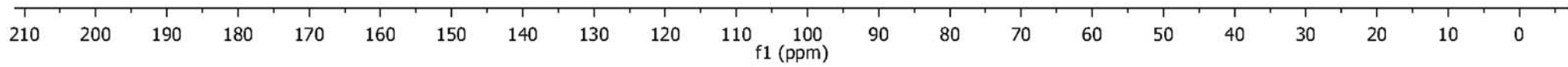
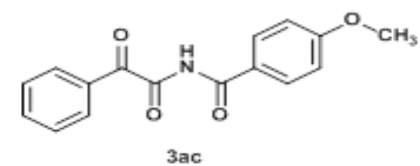
134.697
132.631
130.579
130.110
129.062

—123.052

—114.551

77.414
77.160
76.906

—55.758



— 9.545

8.389
8.371
8.287
8.270
7.894
7.880
7.696
7.681
7.666
7.563
7.547
7.532
7.260

