

Electronic Supplementary Information for

**Copper-catalyzed TEMPO oxidative cleavage of 1,3-diketones and
 β -keto esters for synthesis of 1,2-diketones and α -keto esters**

Peng-Jun Zhou, Cheng-Kun Li, Shao-Fang Zhou, Adedamola Shoberu, Jian-Ping
Zou*

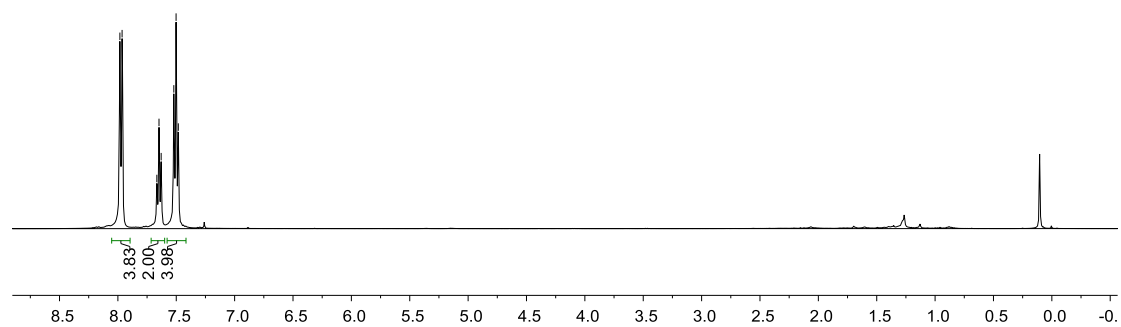
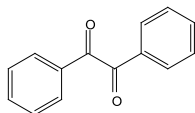
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Chemical Engineering, Soochow University, 199 Renai Street, Suzhou, Jiangsu 215123,
China. jpzou@suda.edu.cn*

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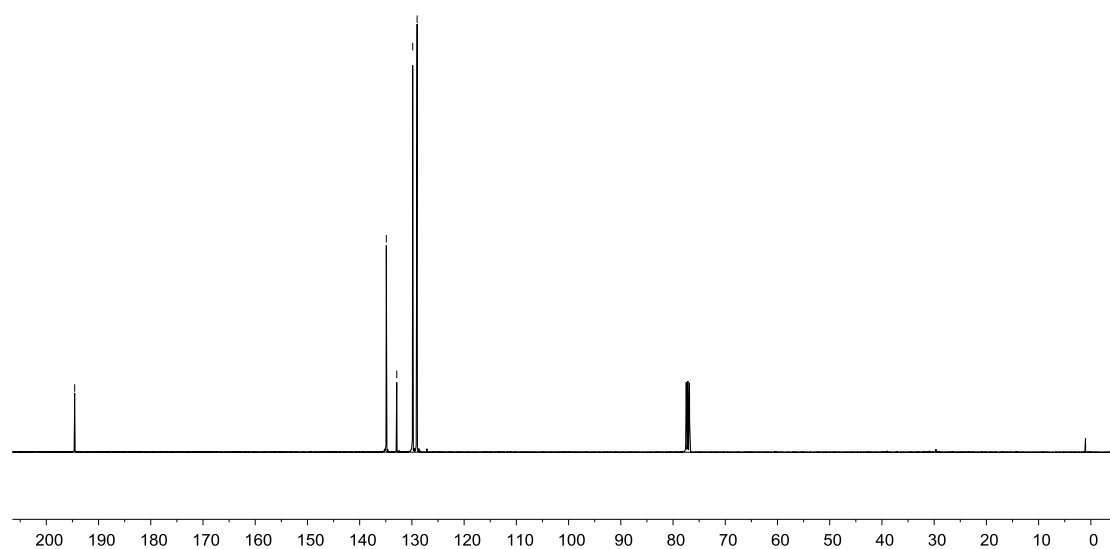
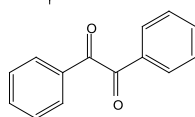
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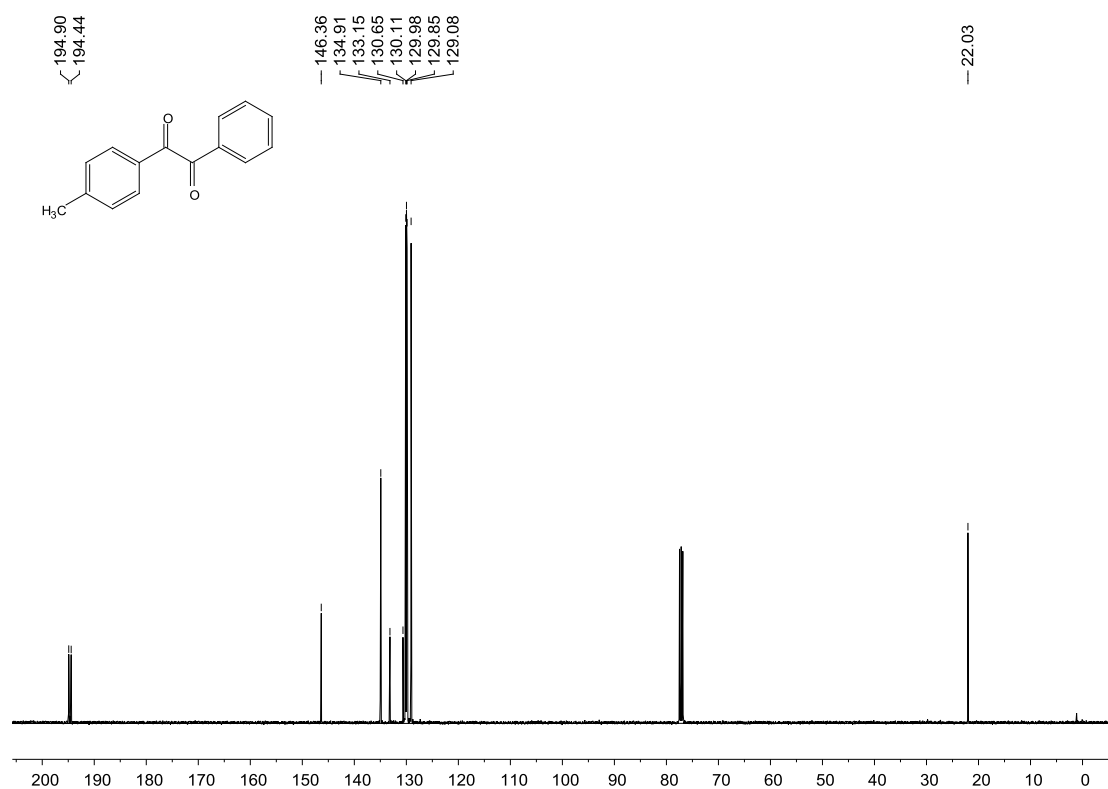
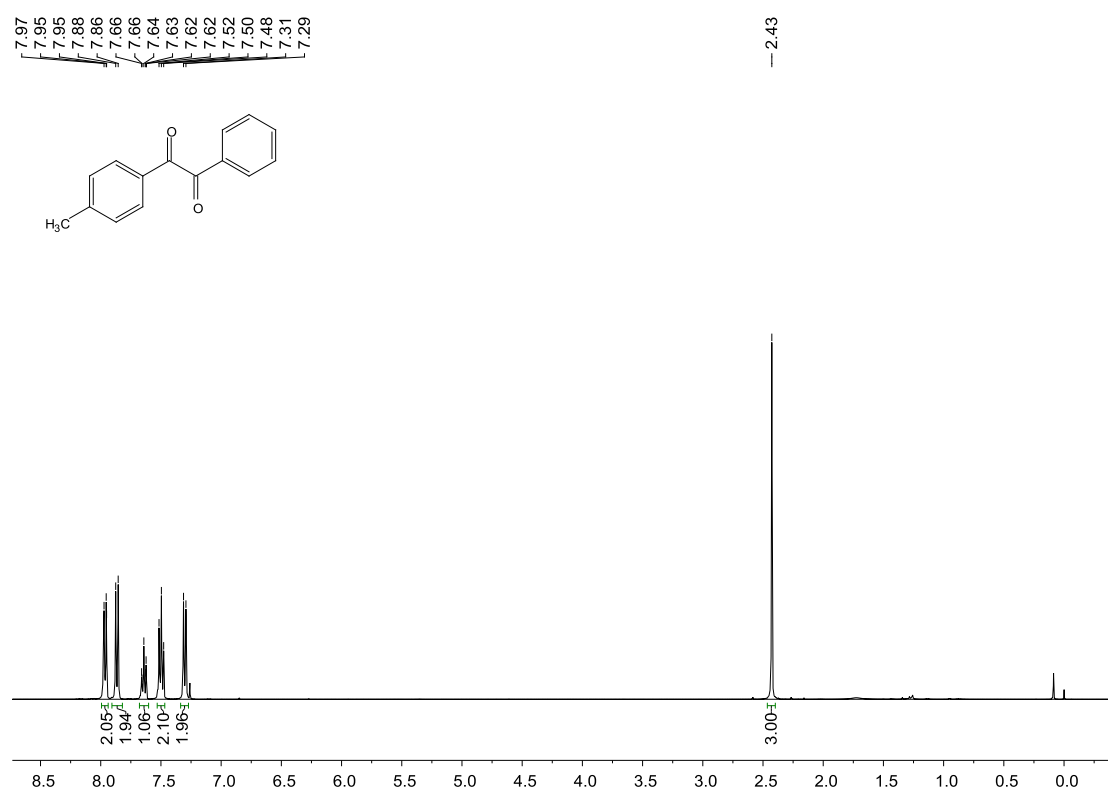


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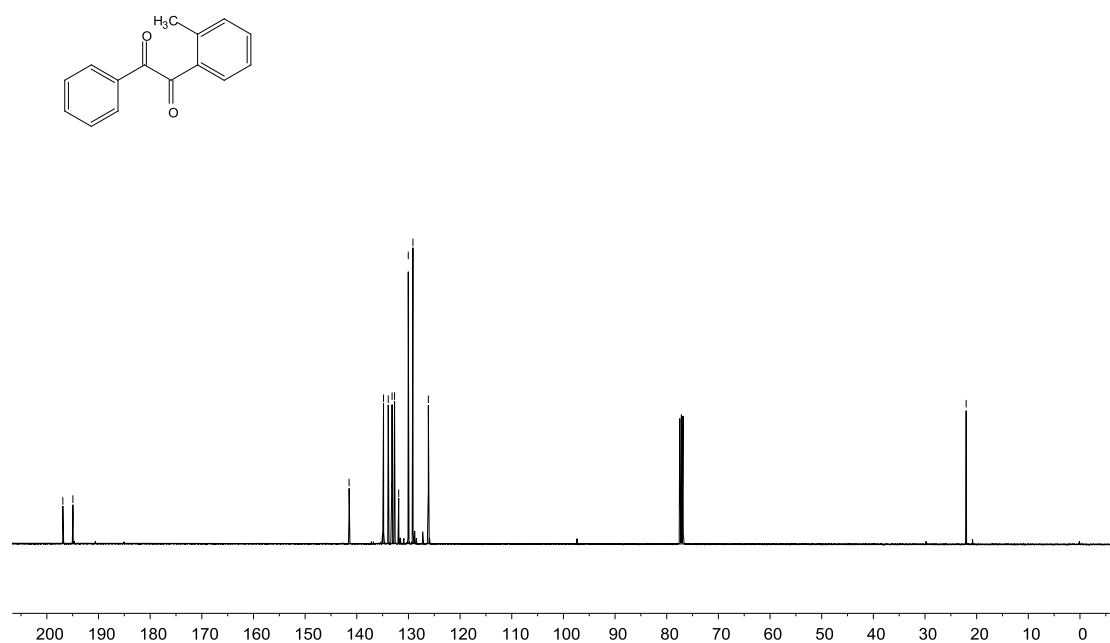
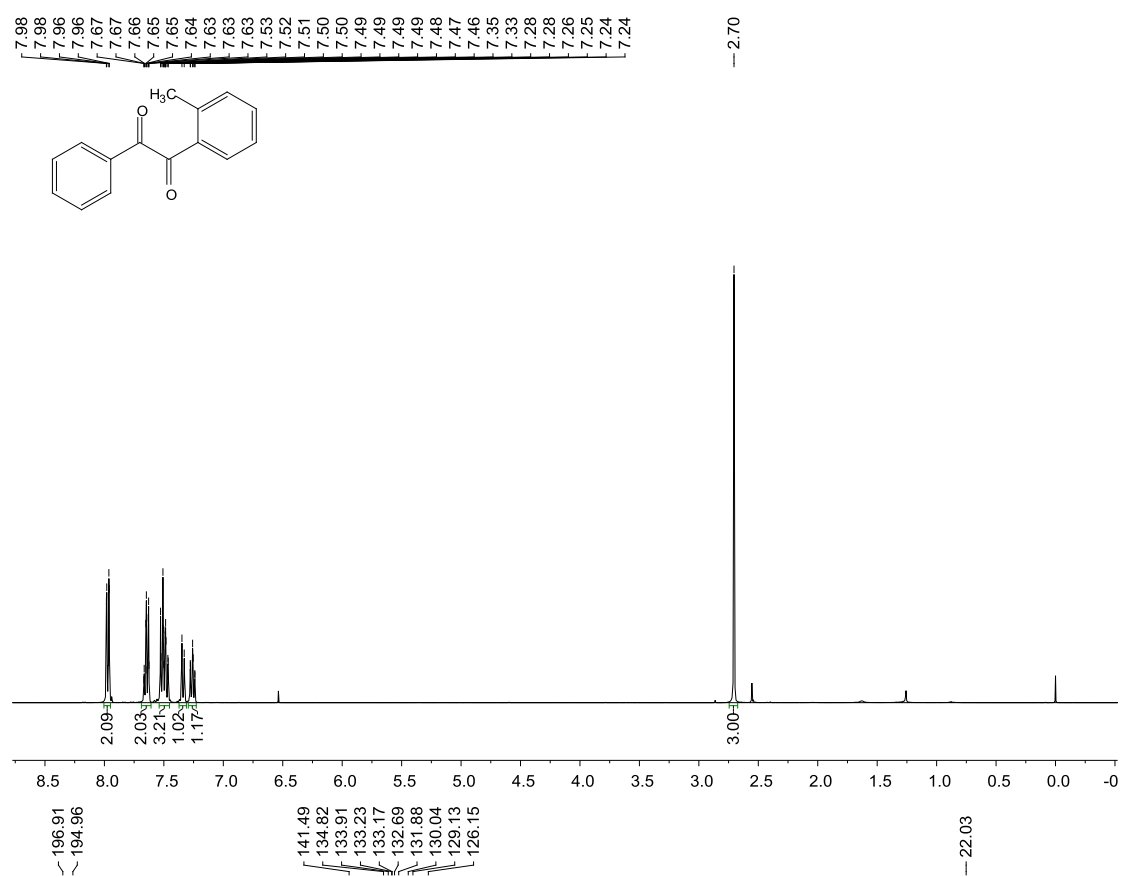
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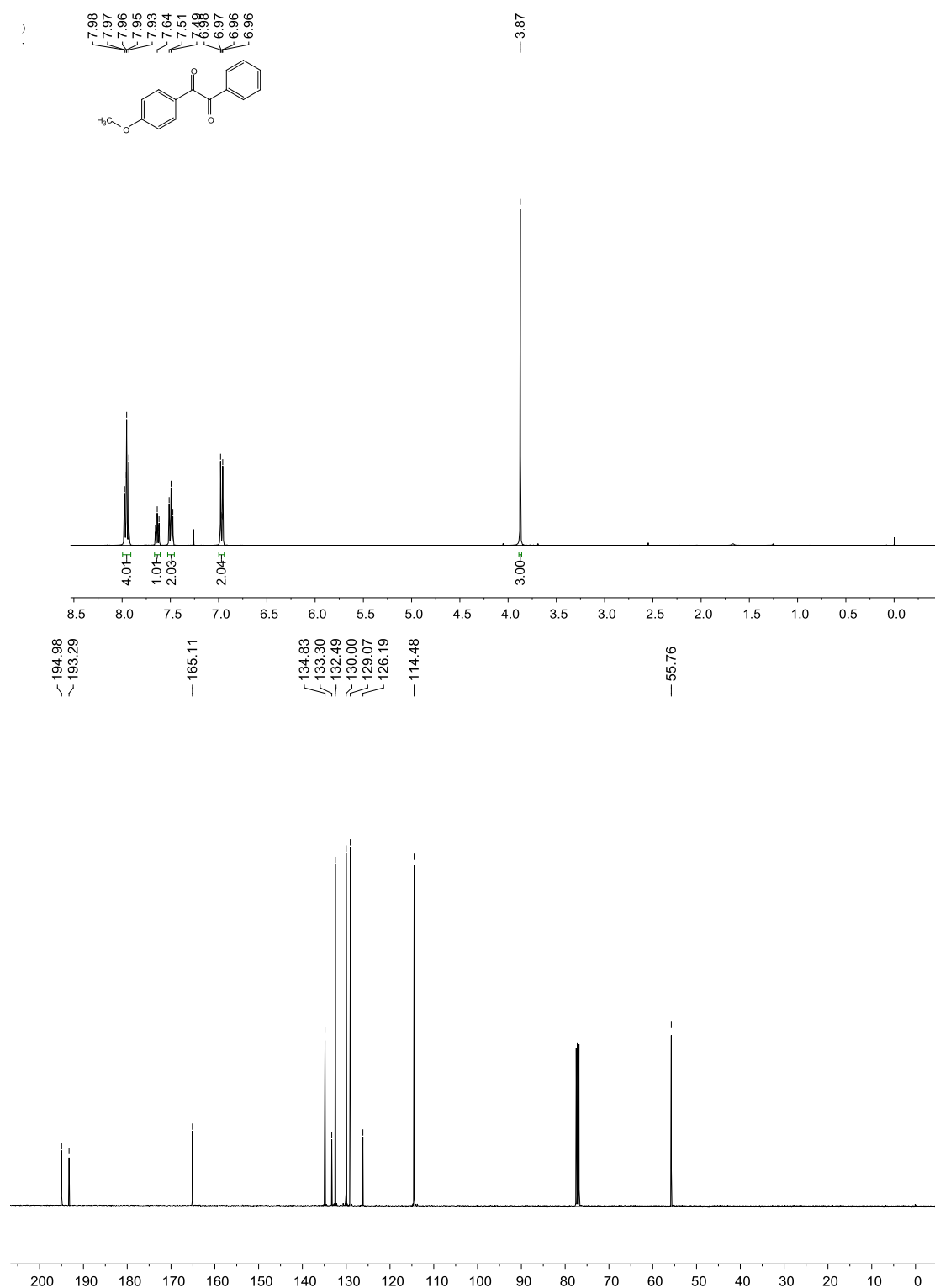
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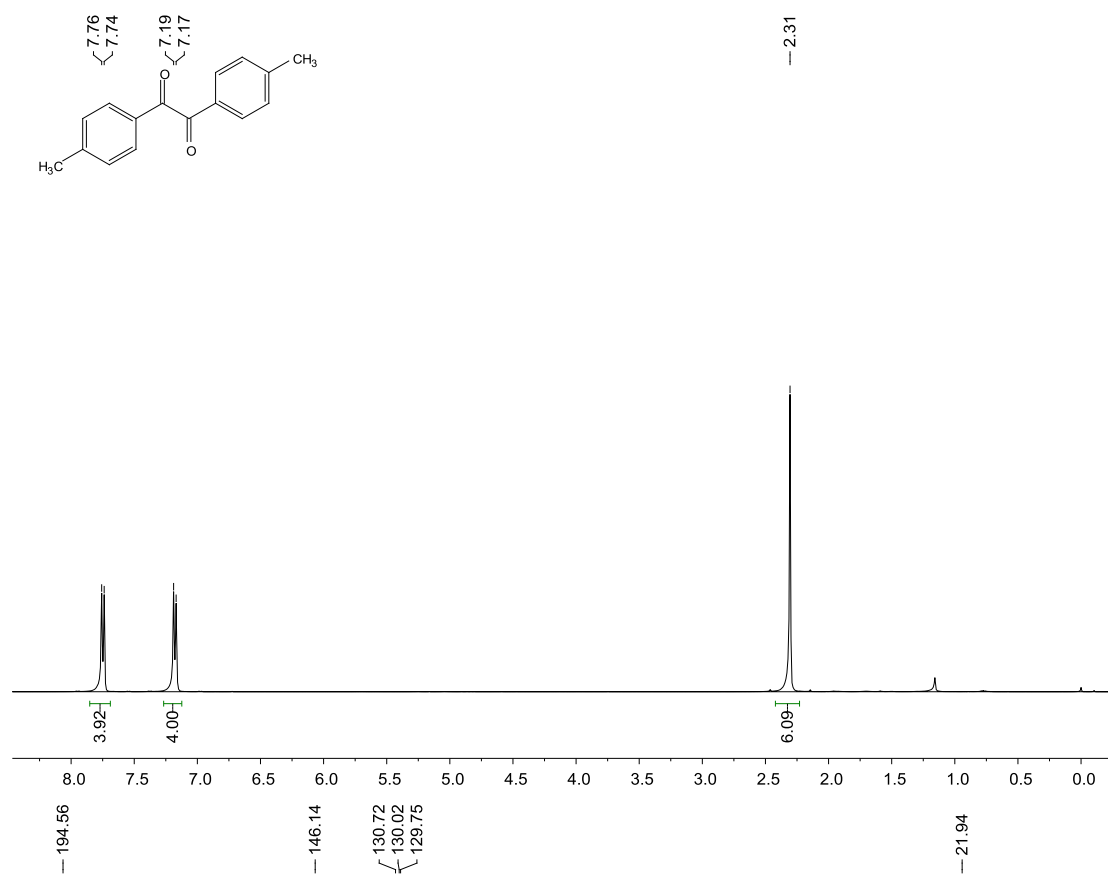
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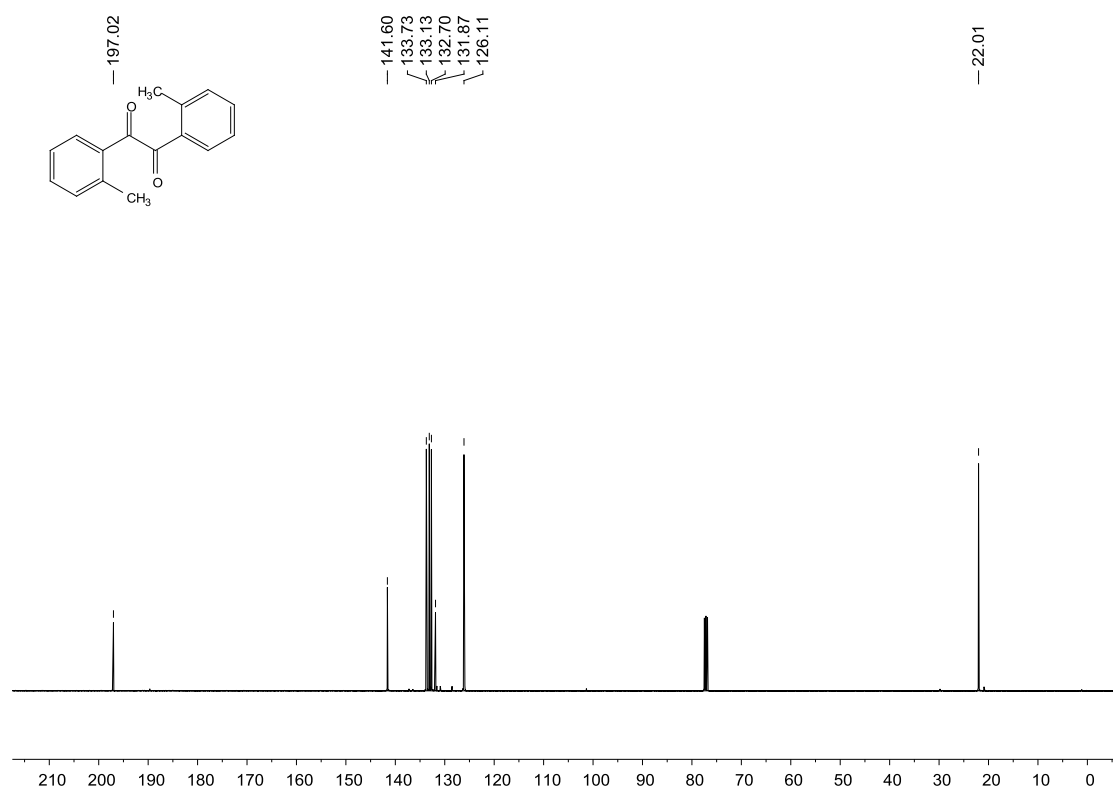
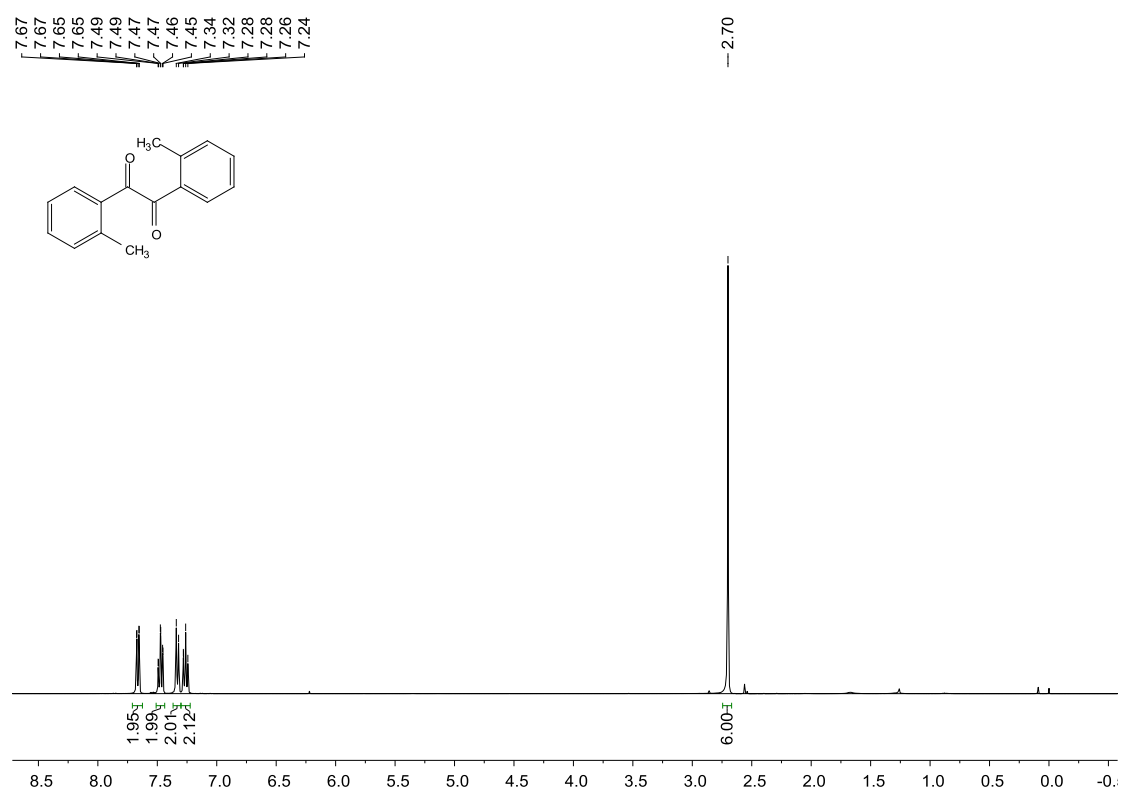
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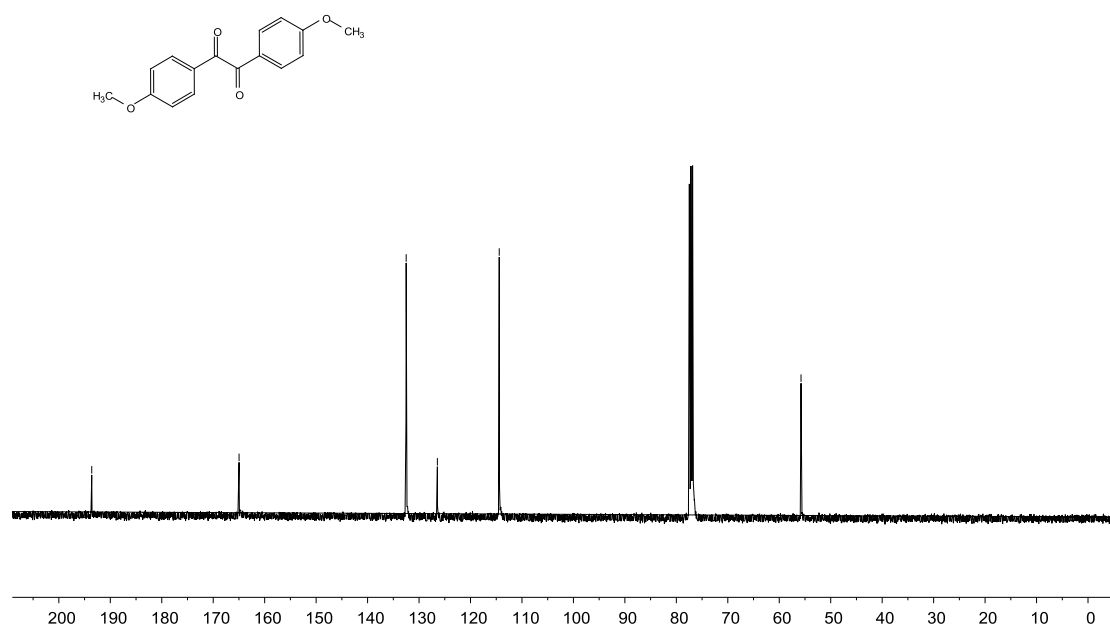
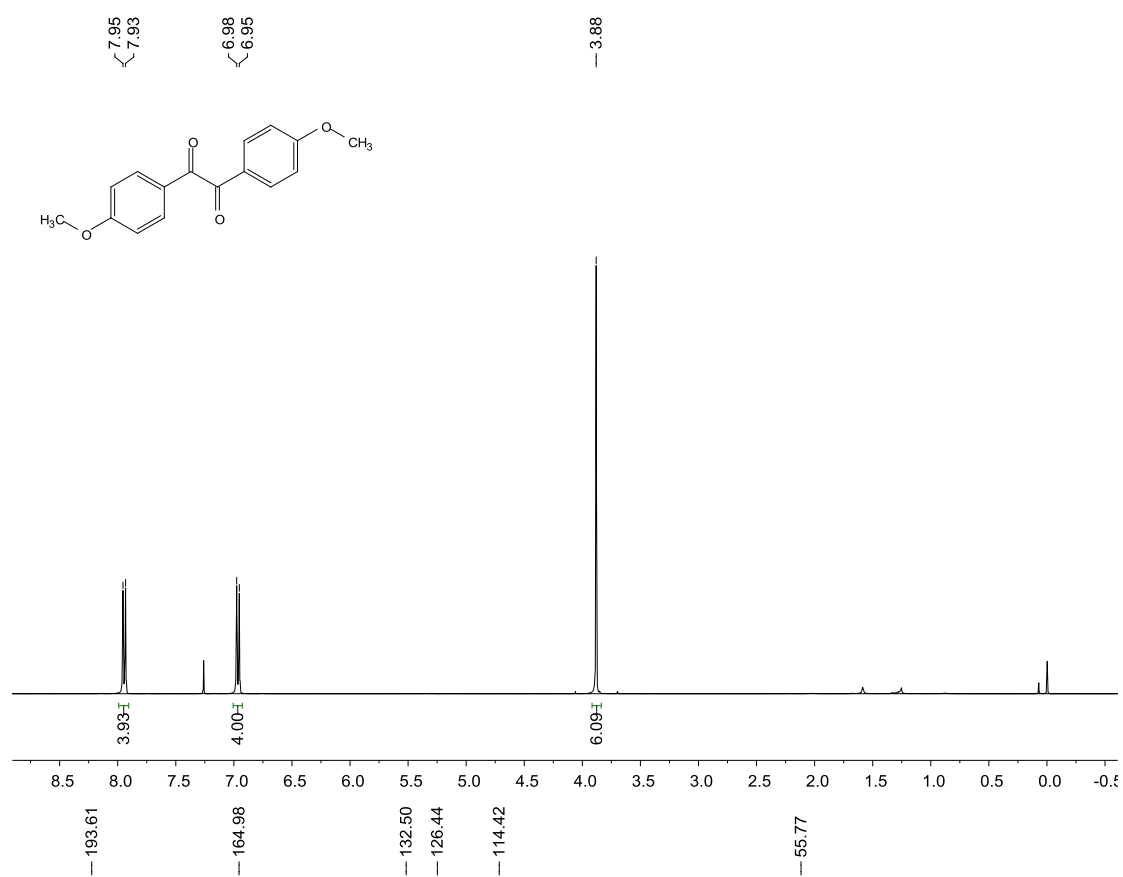
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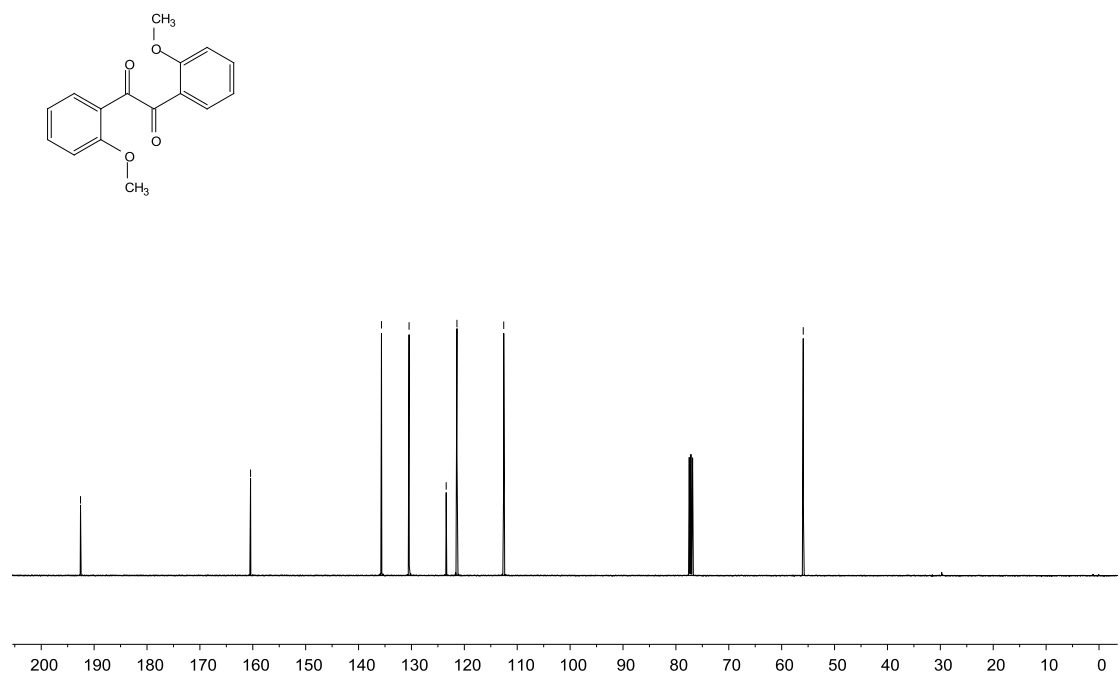
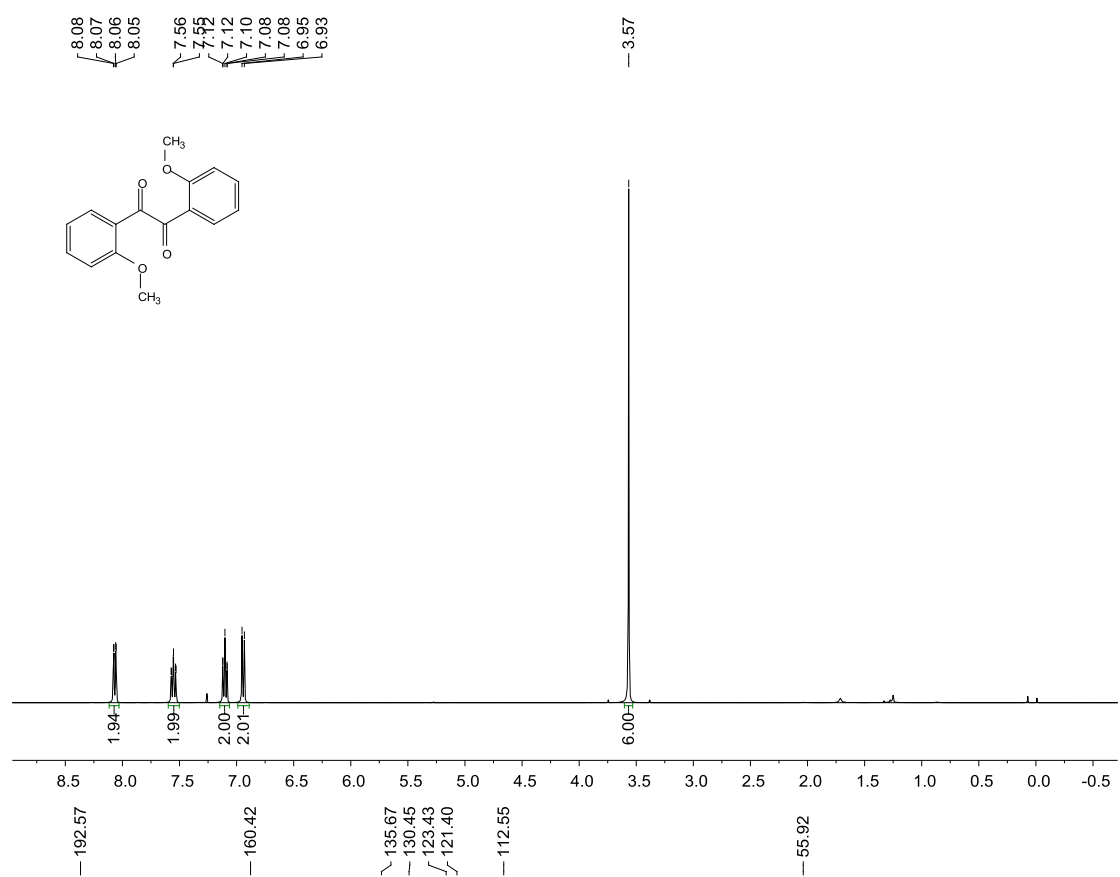
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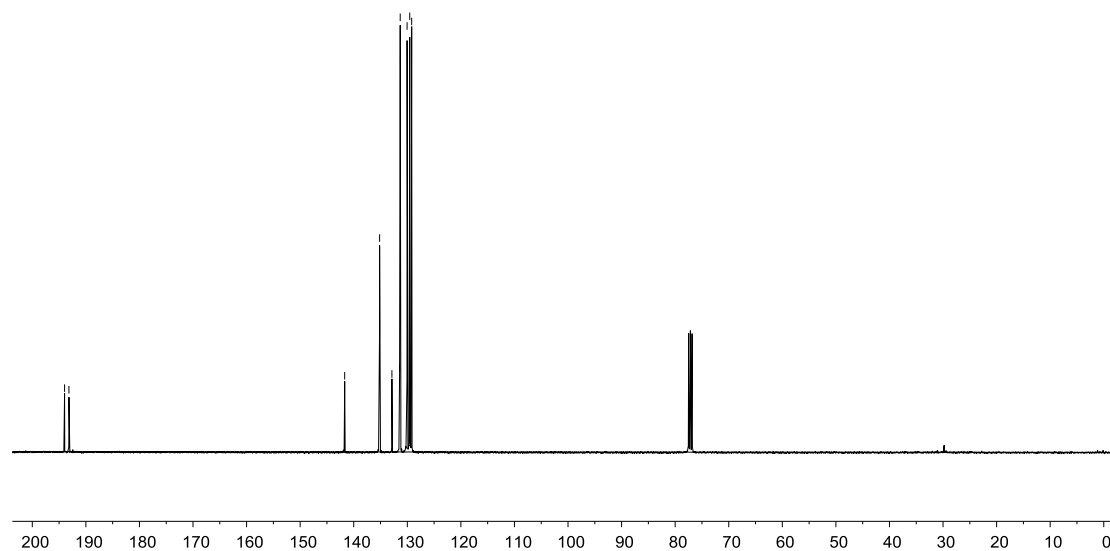
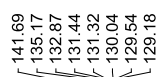
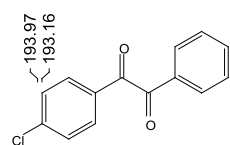
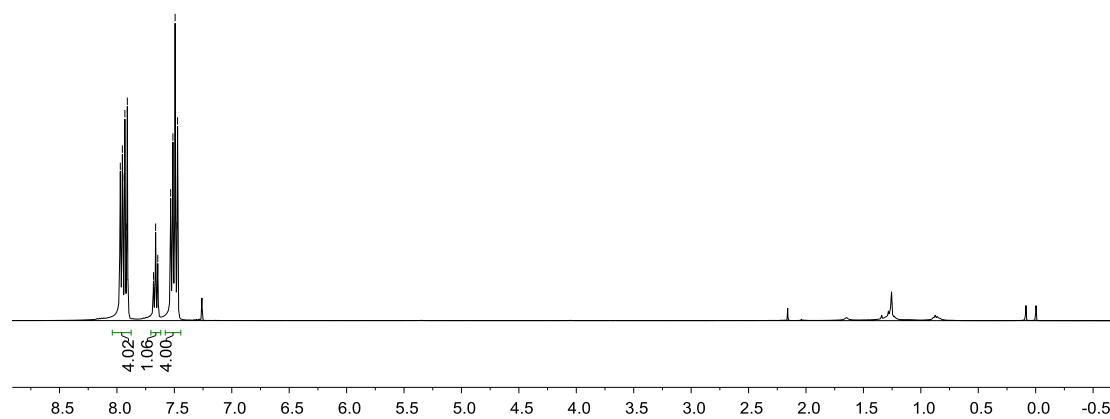
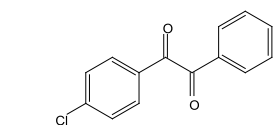
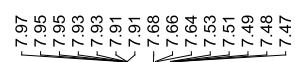
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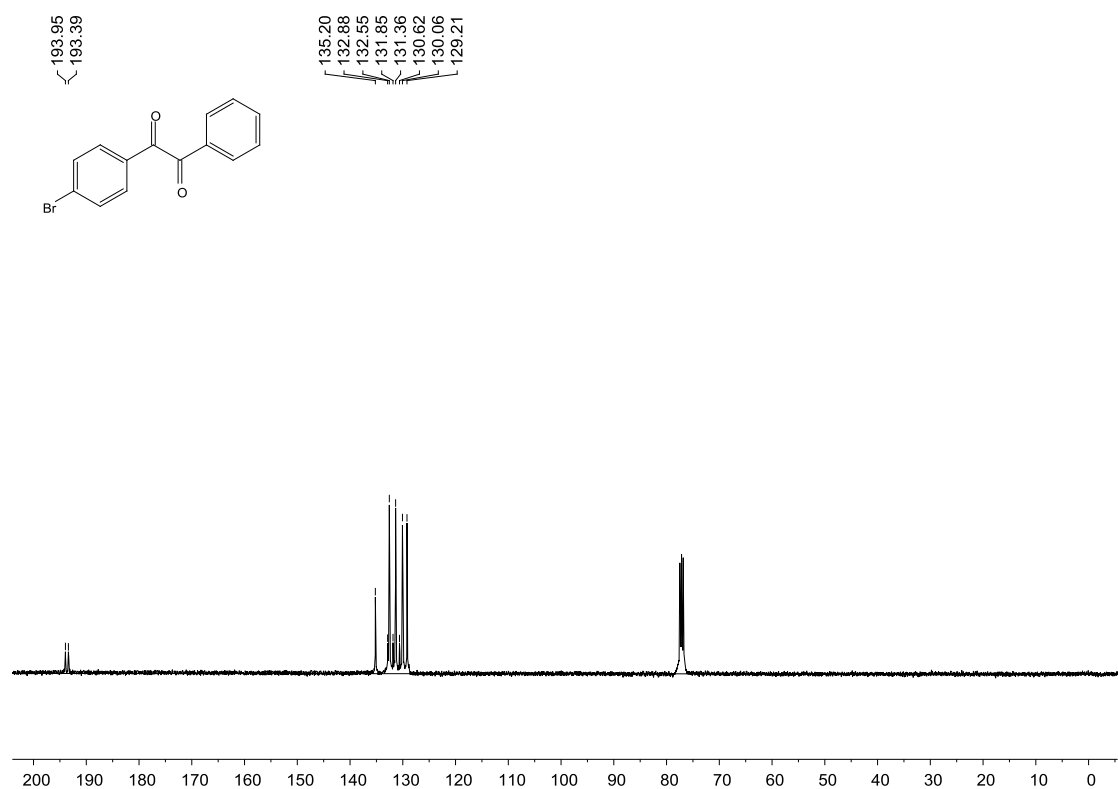
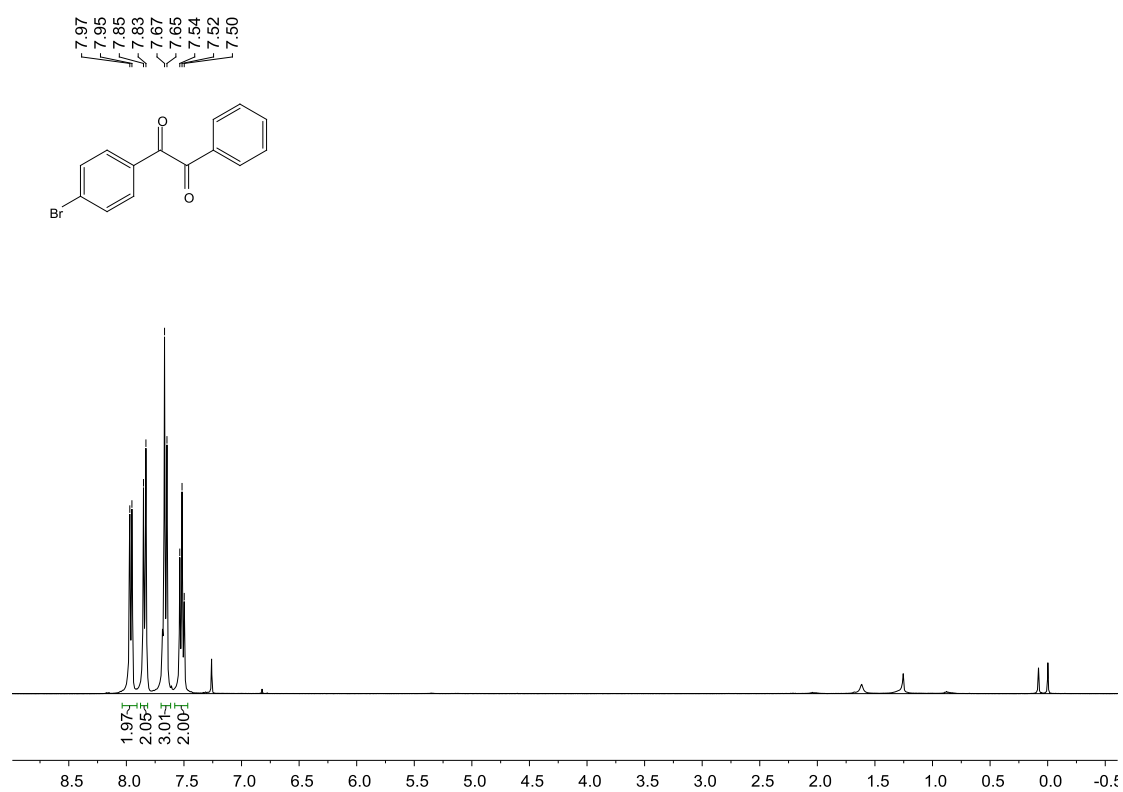
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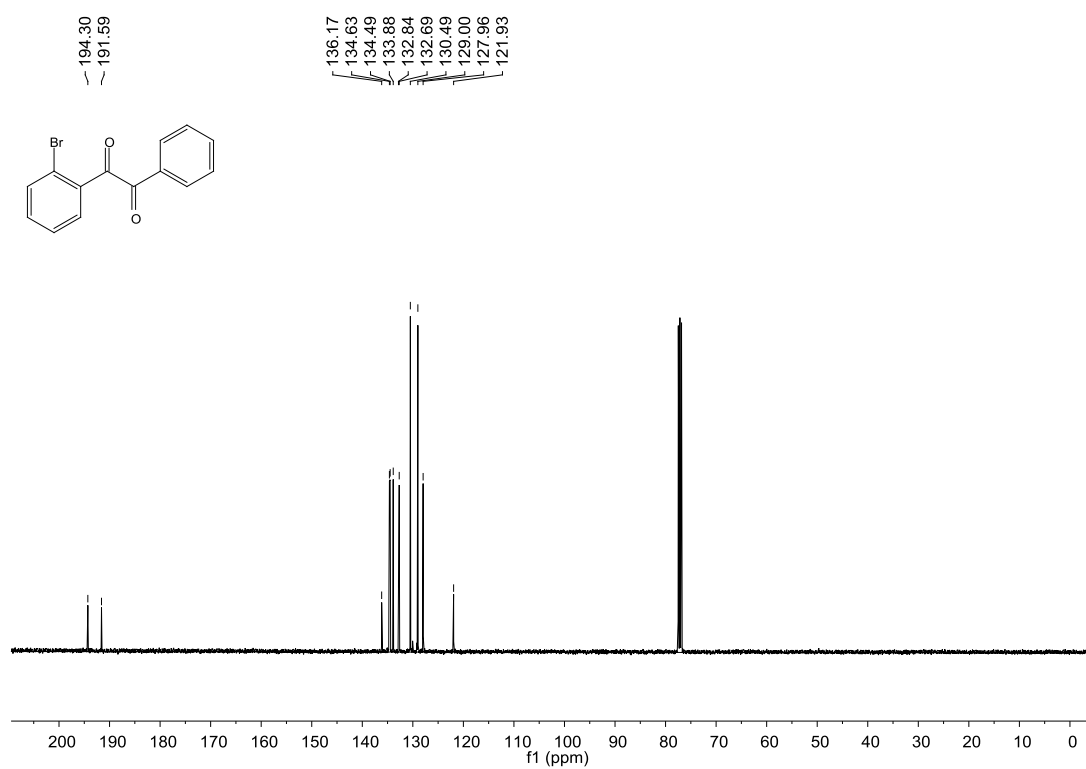
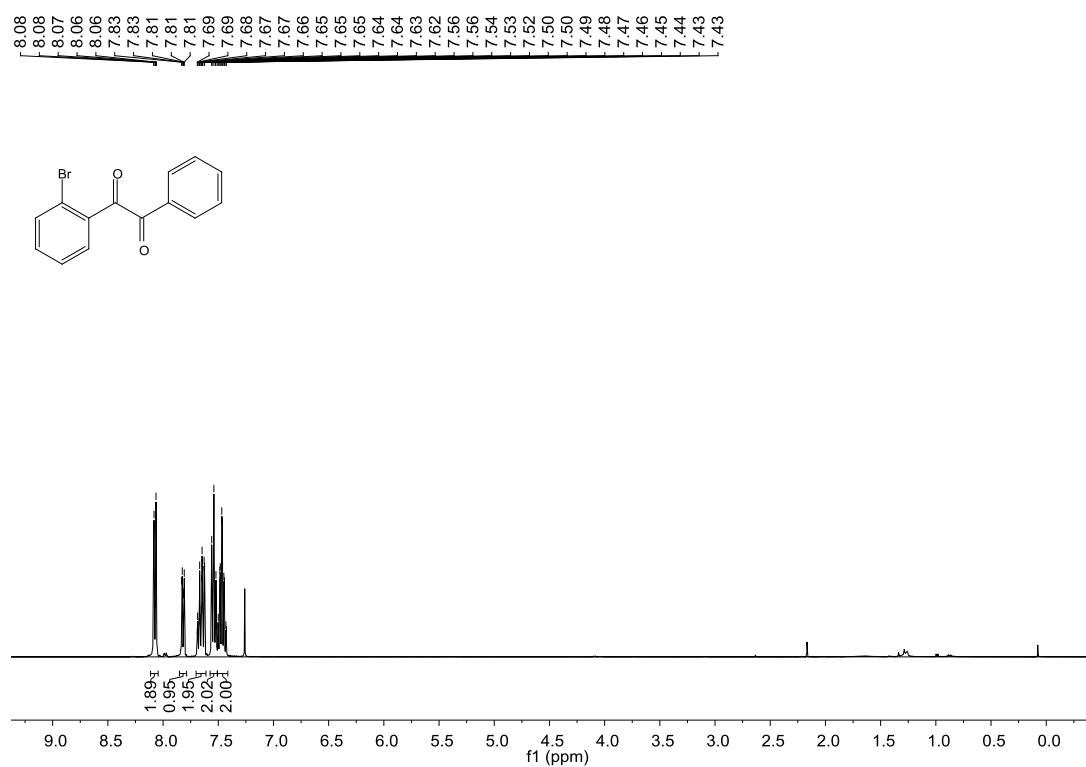
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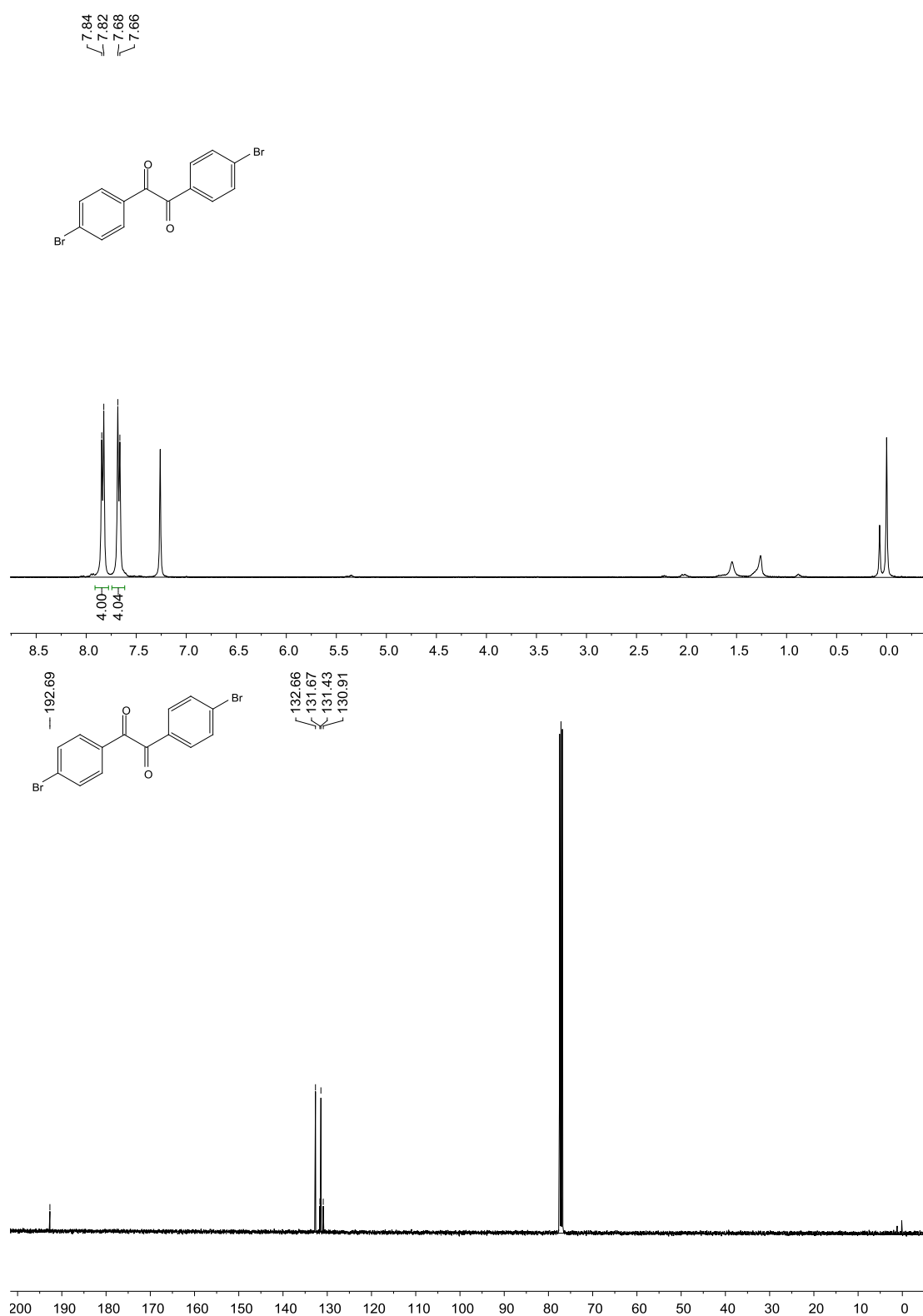
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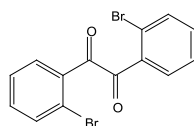
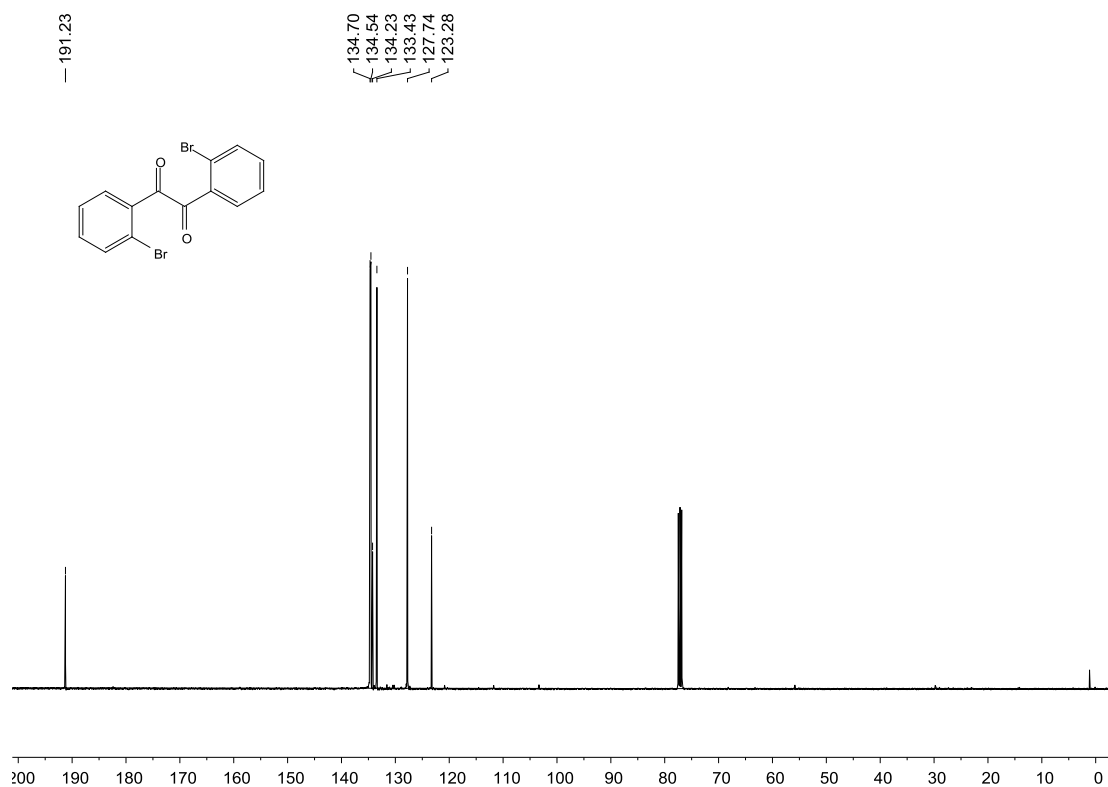
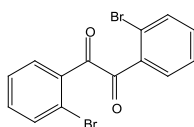
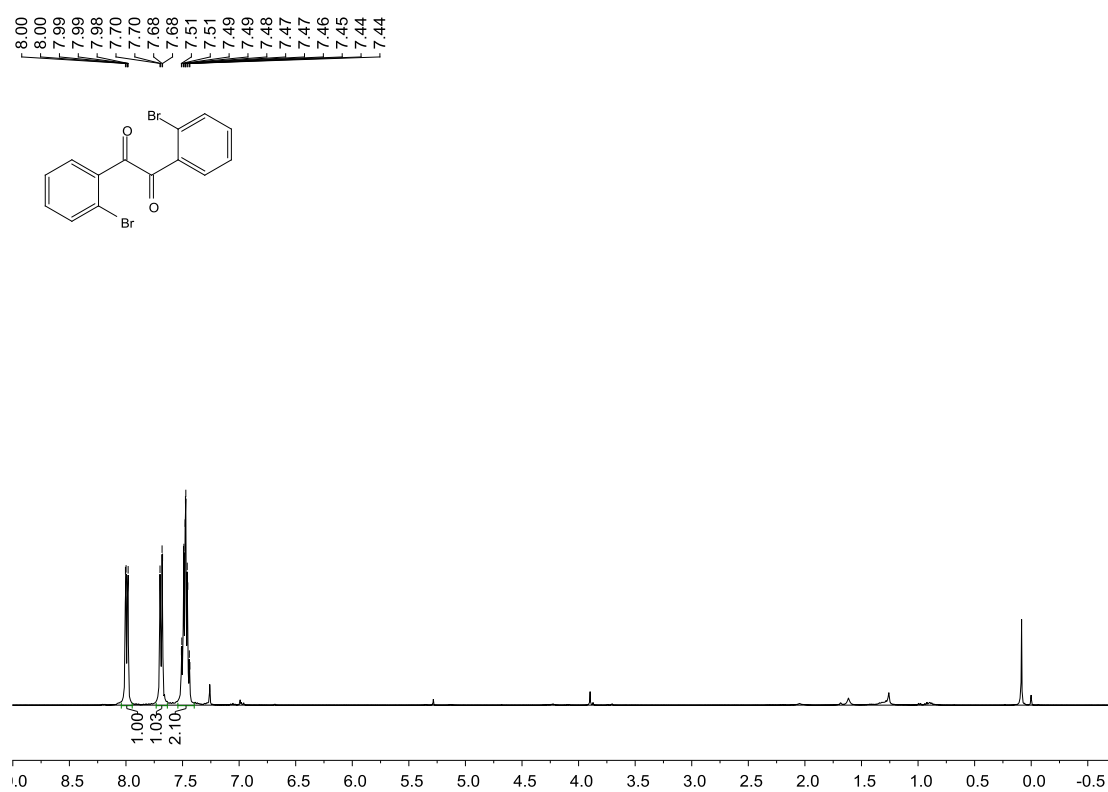
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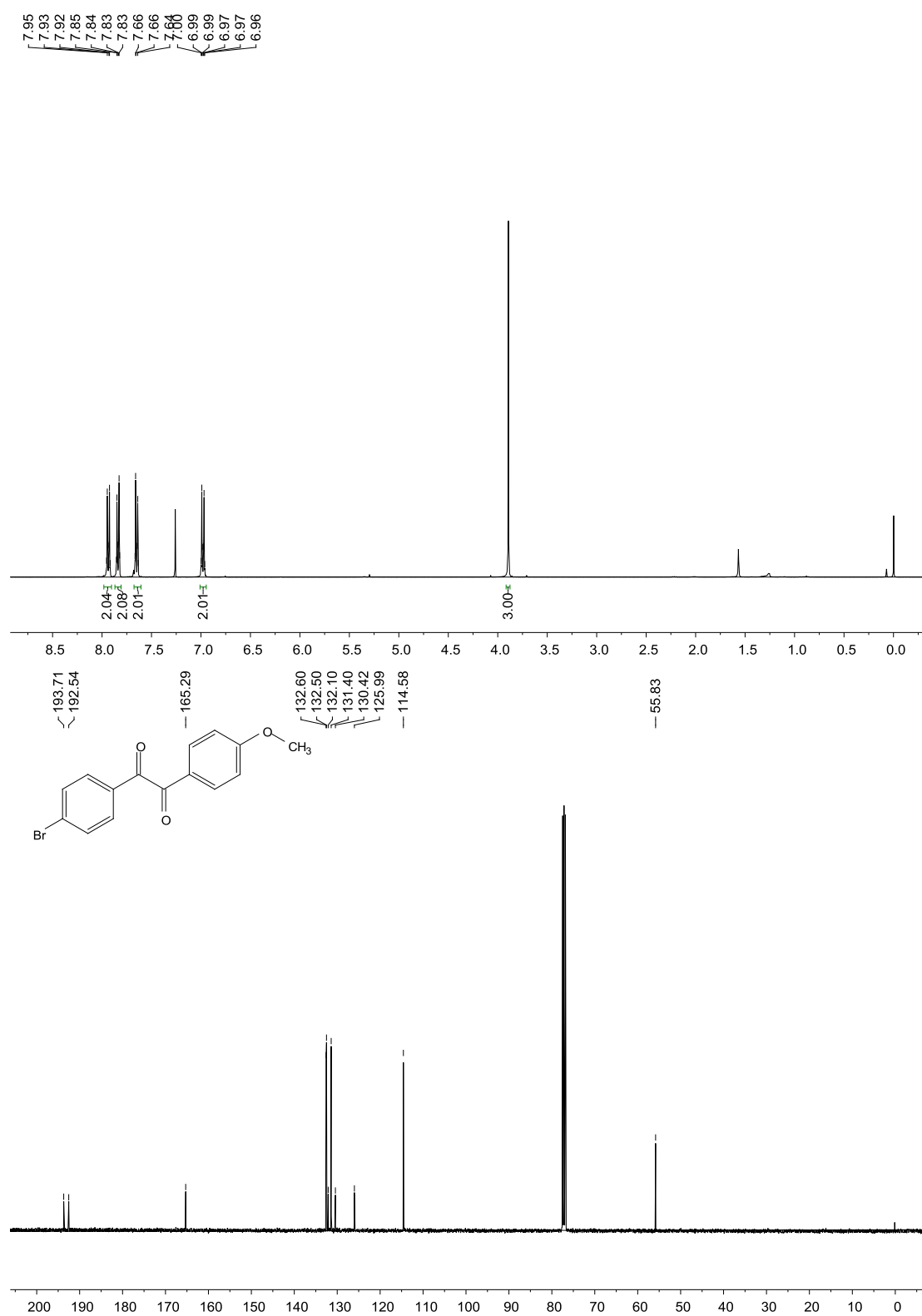
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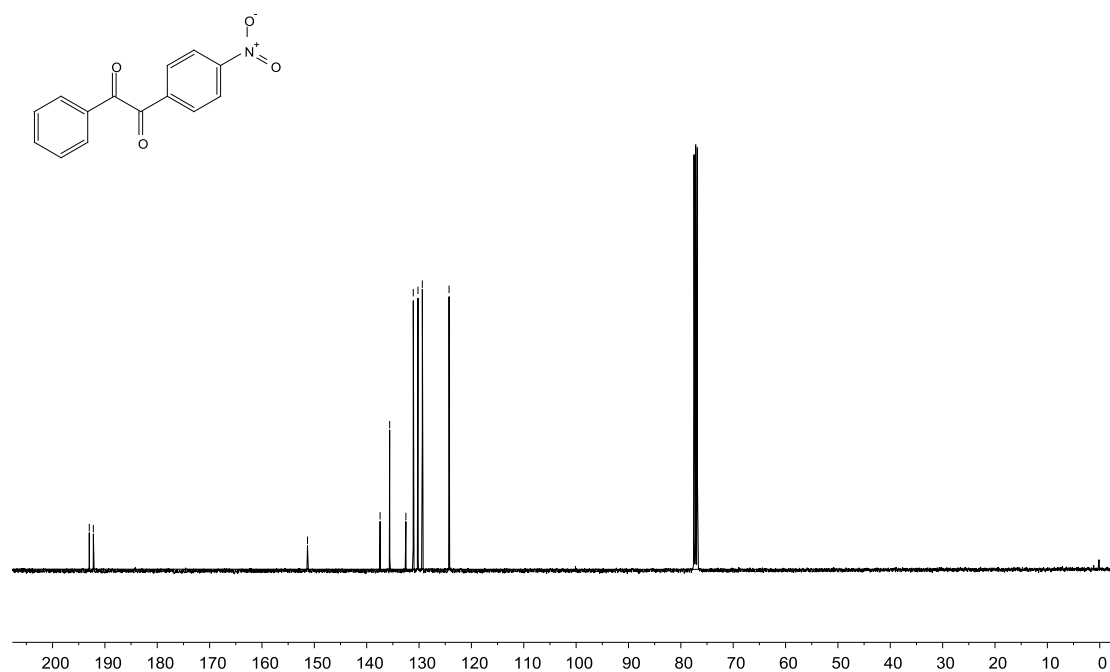
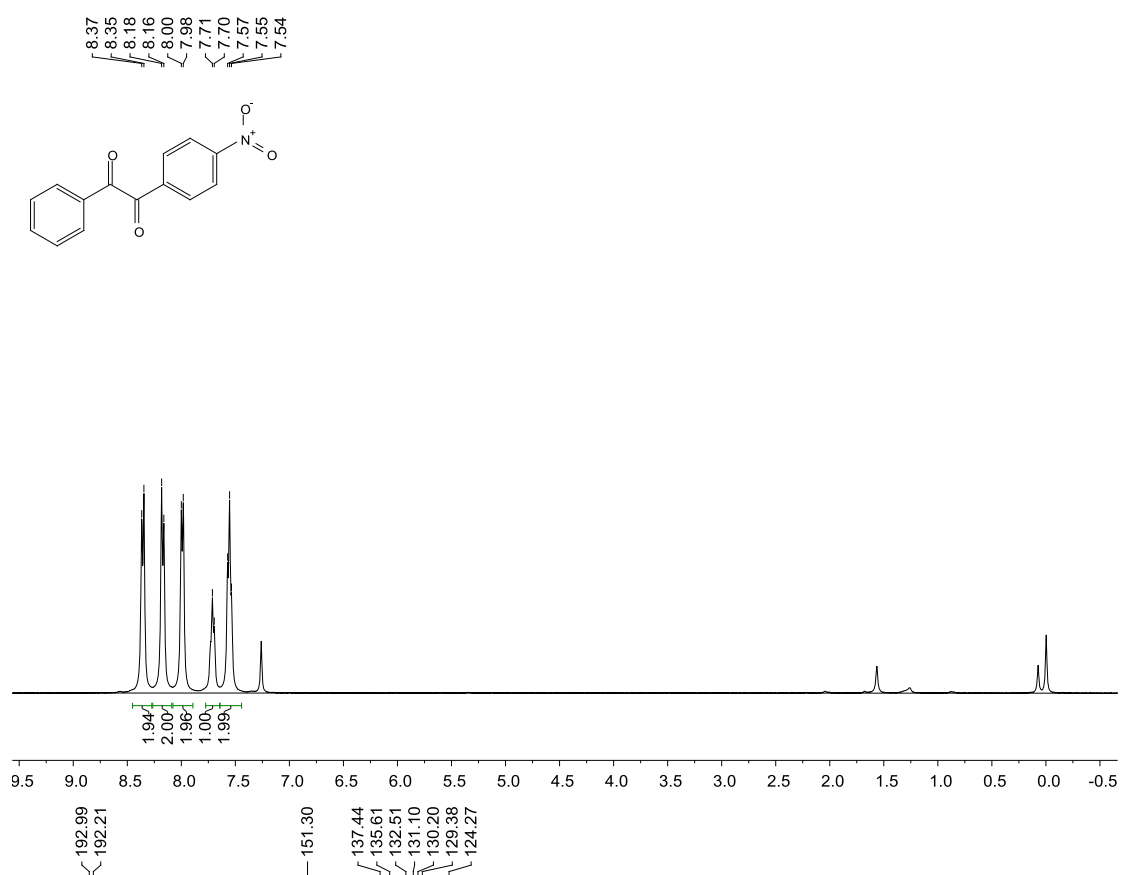
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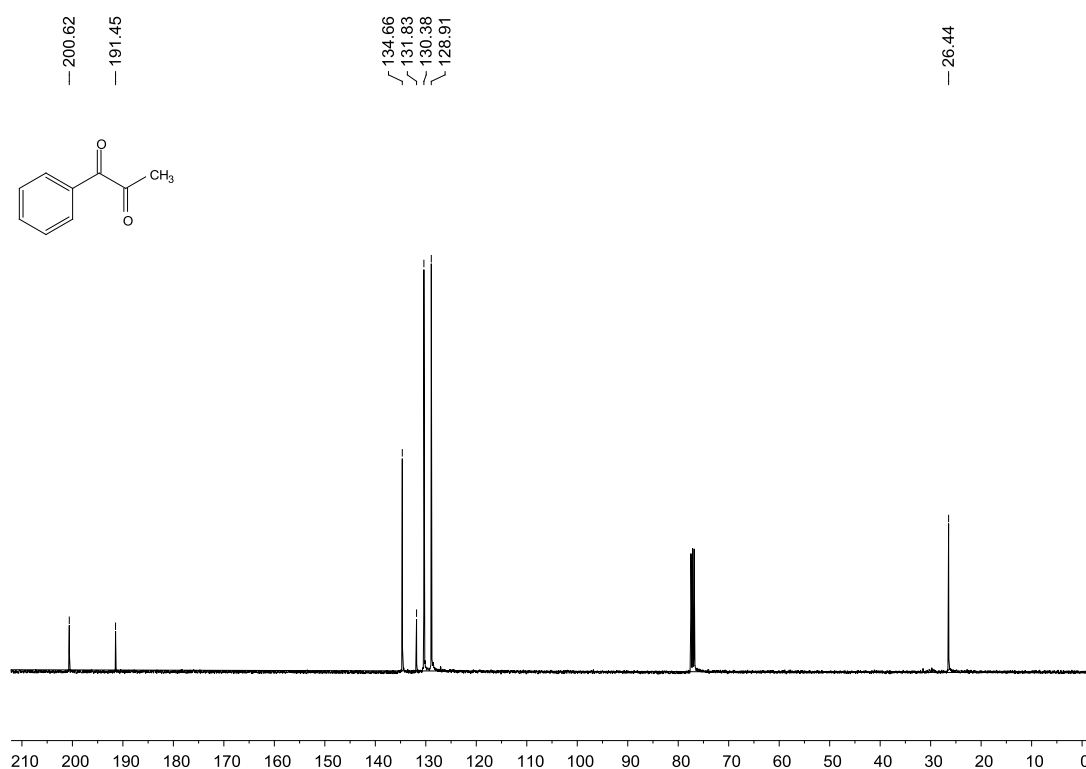
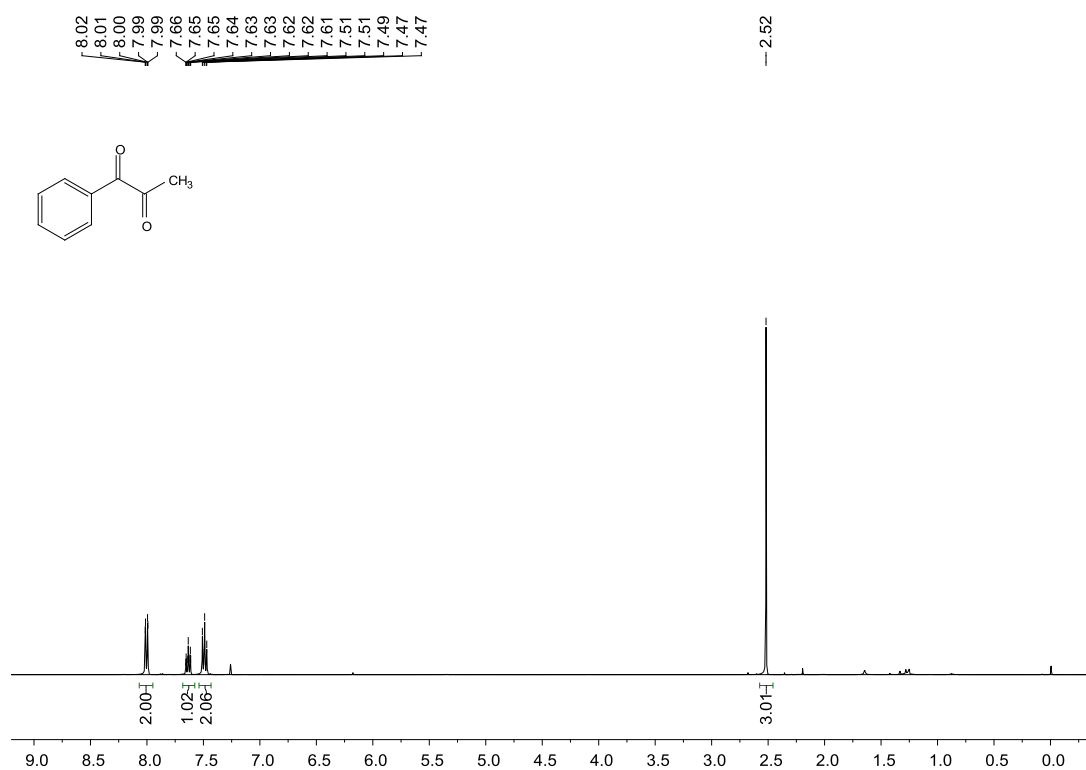
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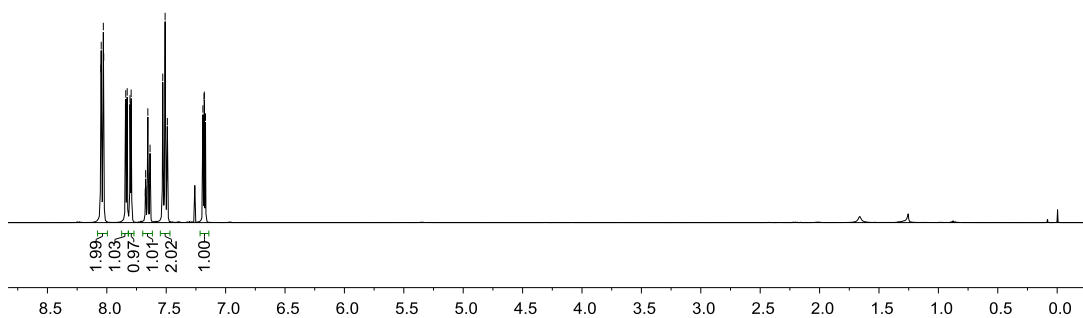
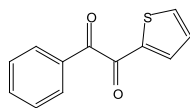


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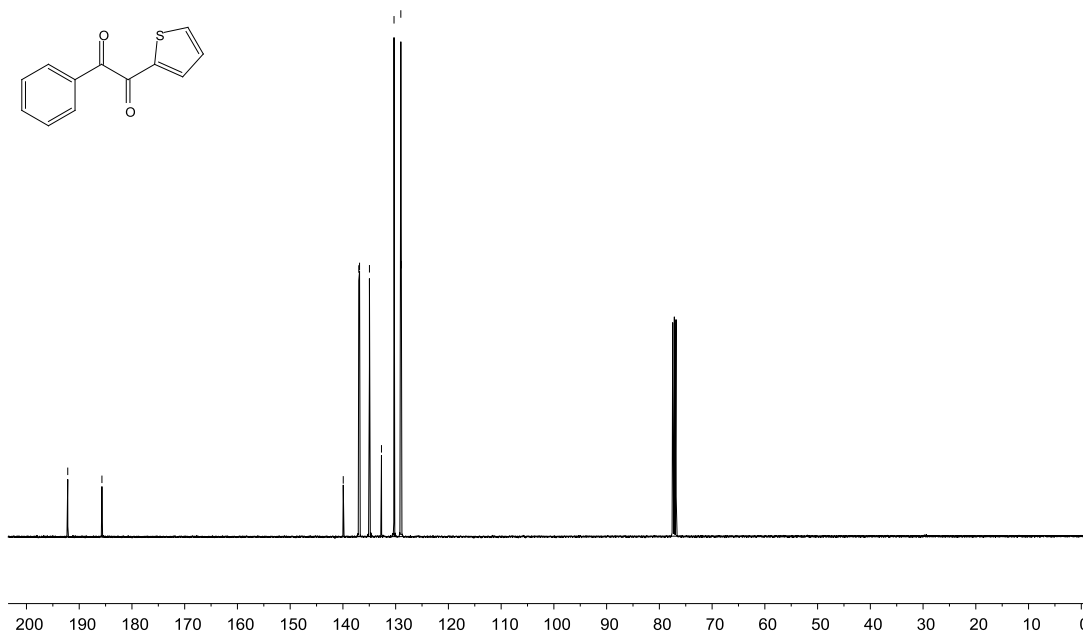
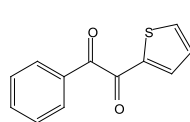


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8.03
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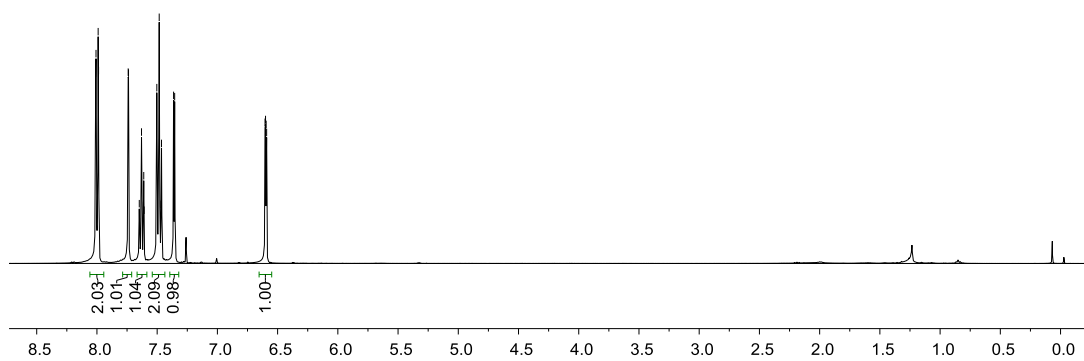
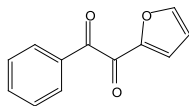


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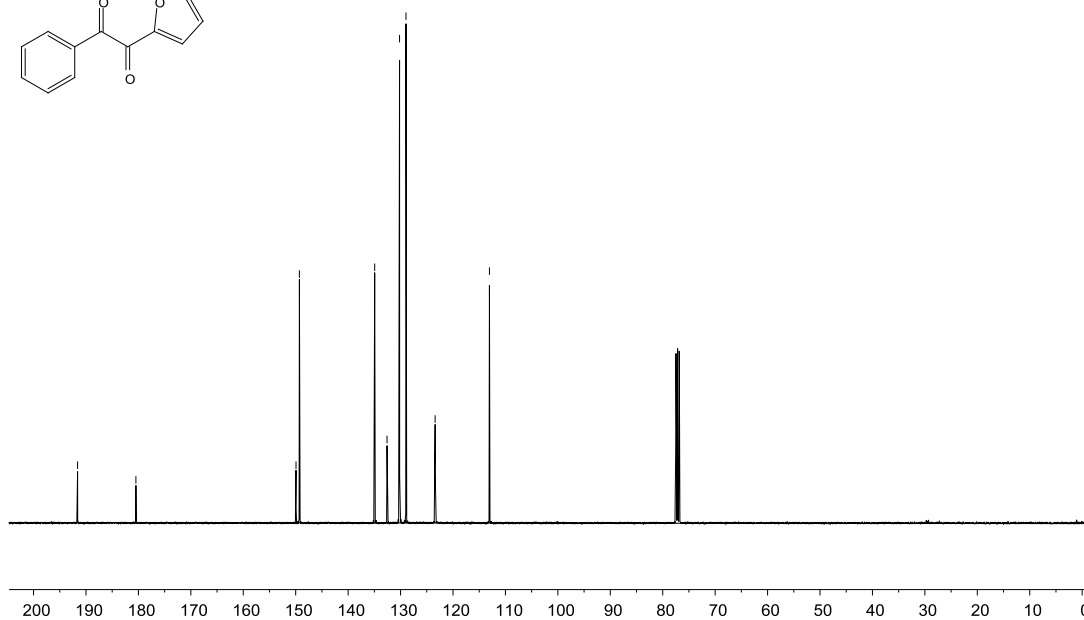
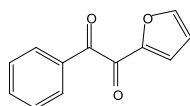


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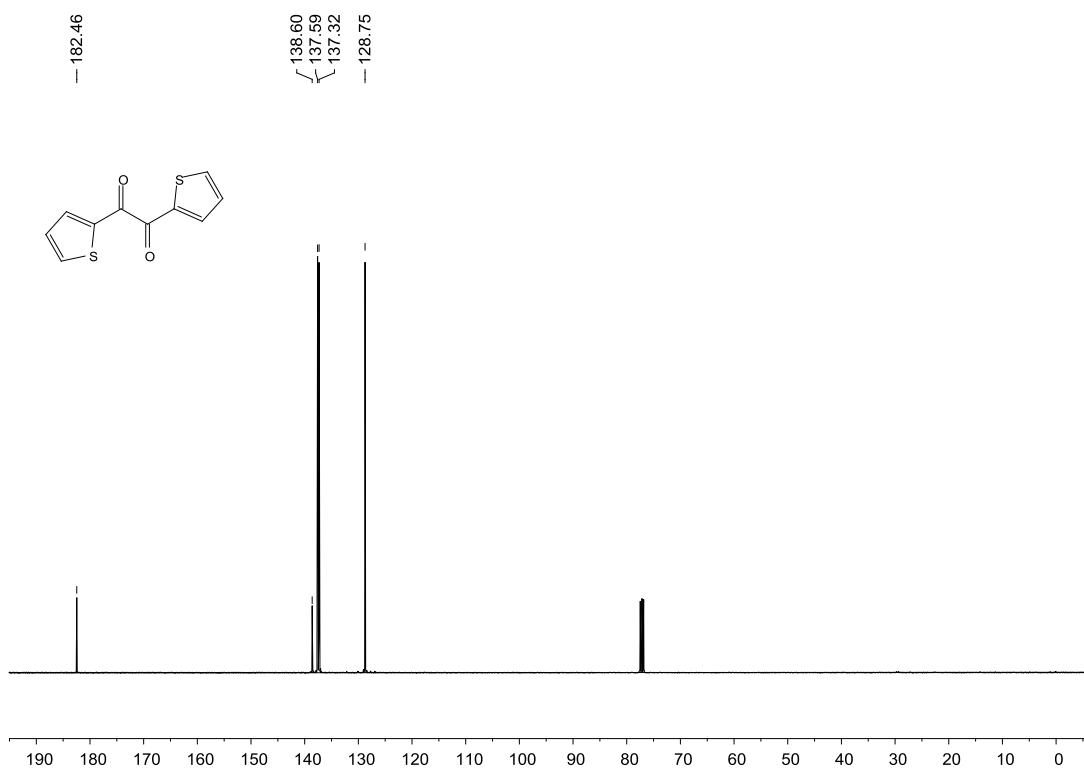
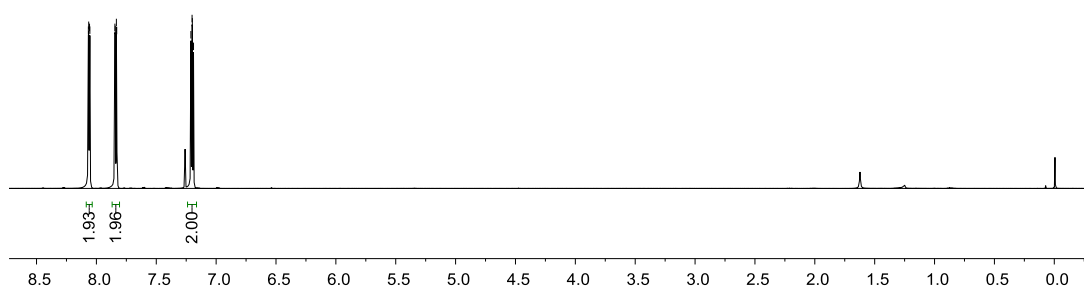
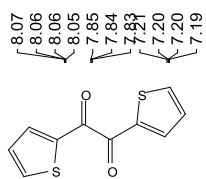
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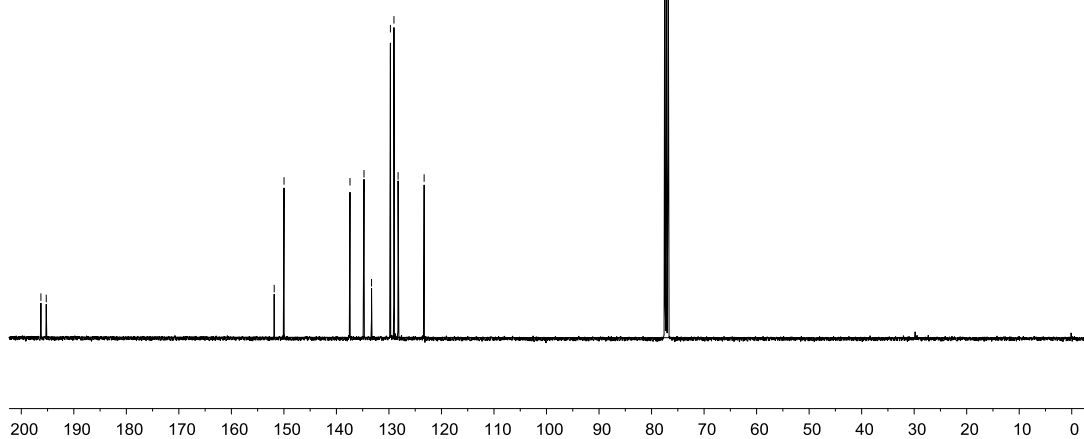
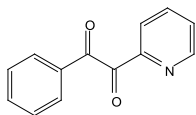
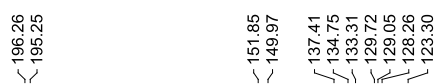
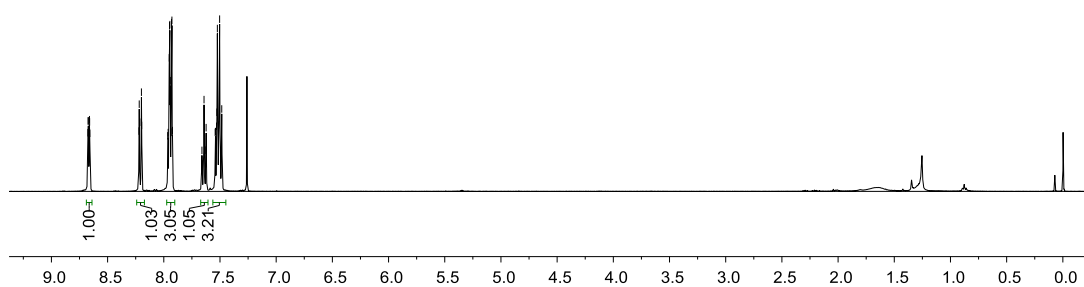
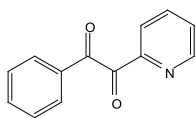
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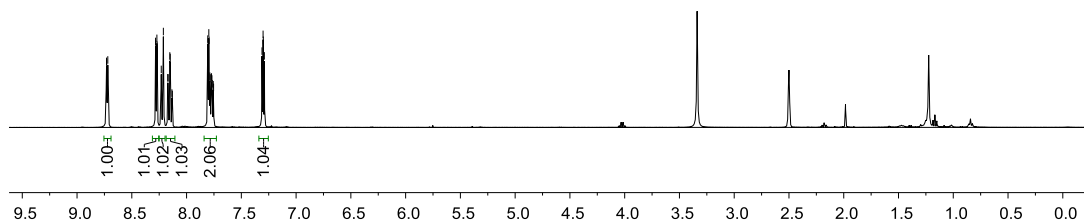
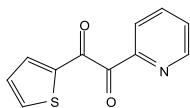


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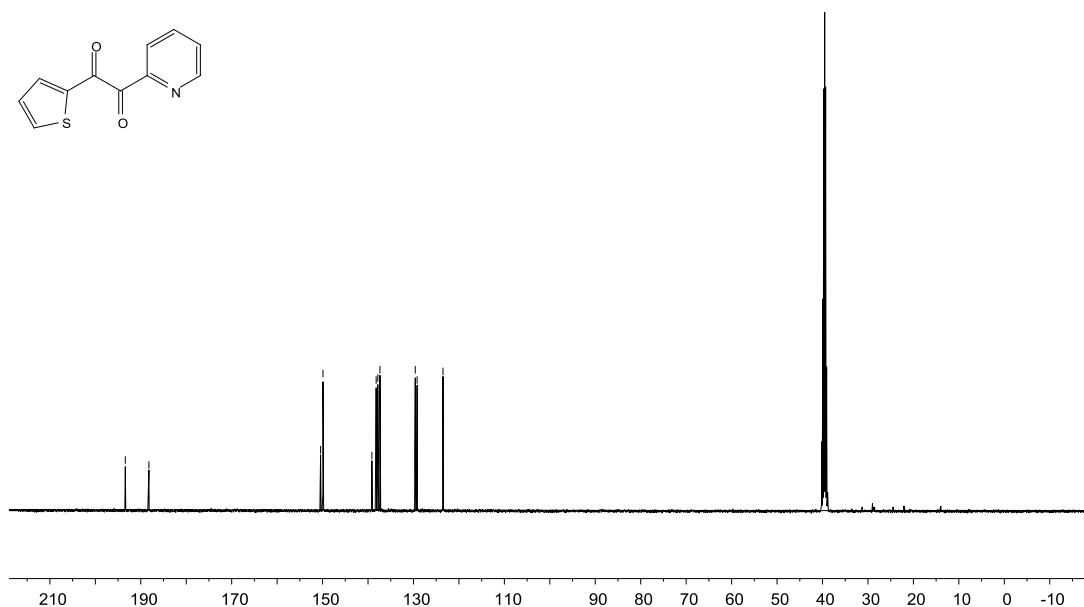
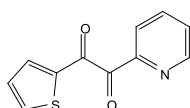


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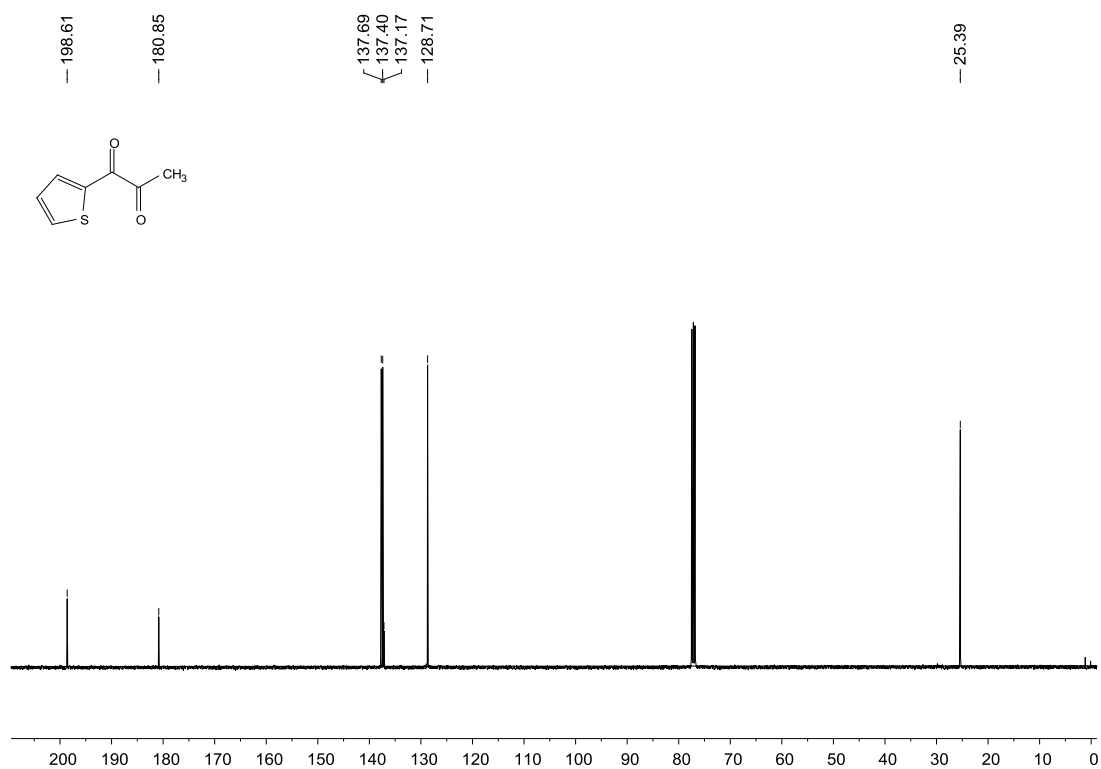
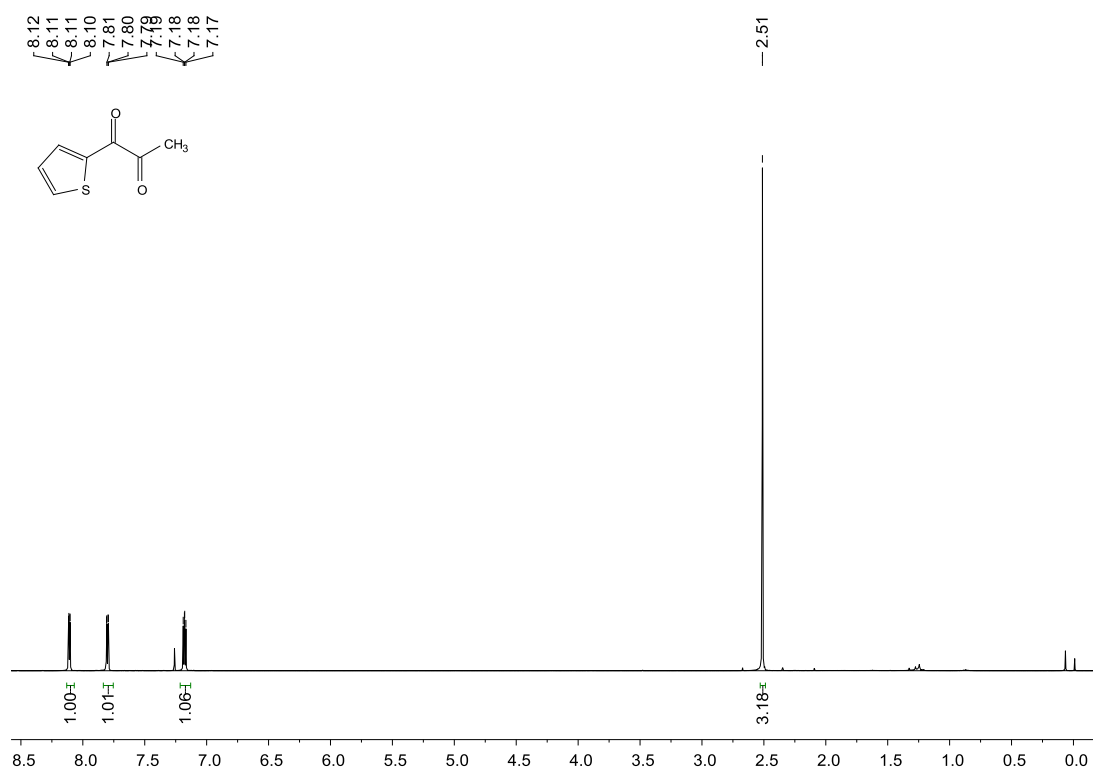
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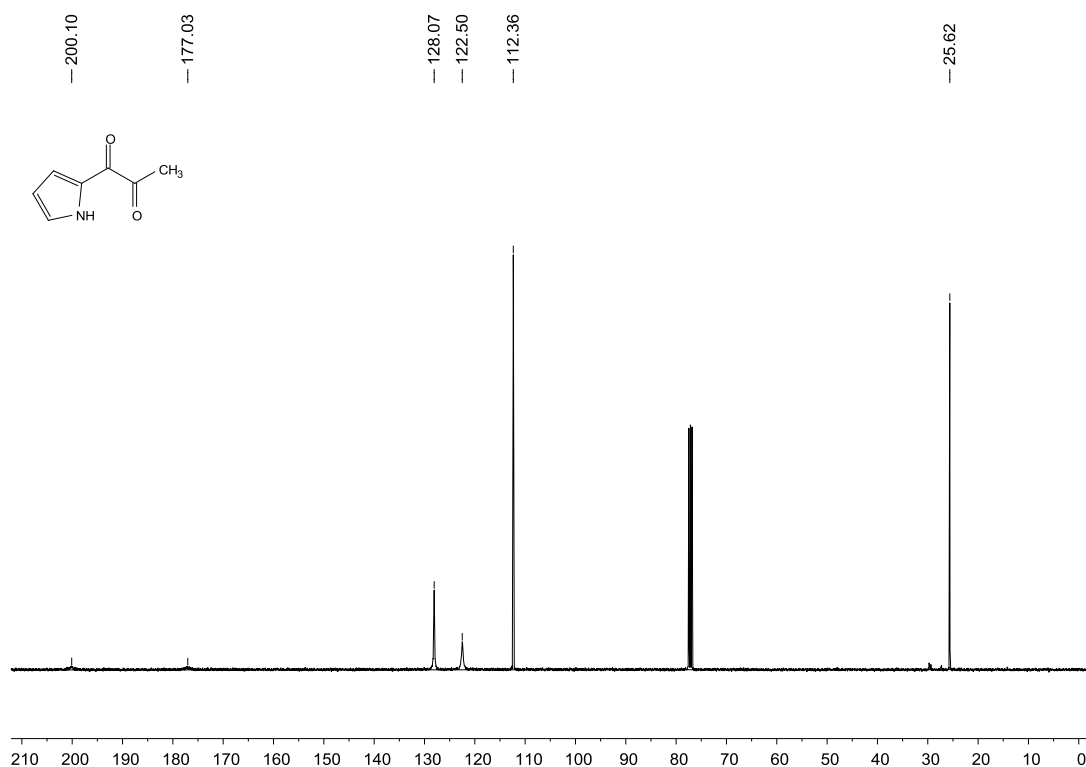
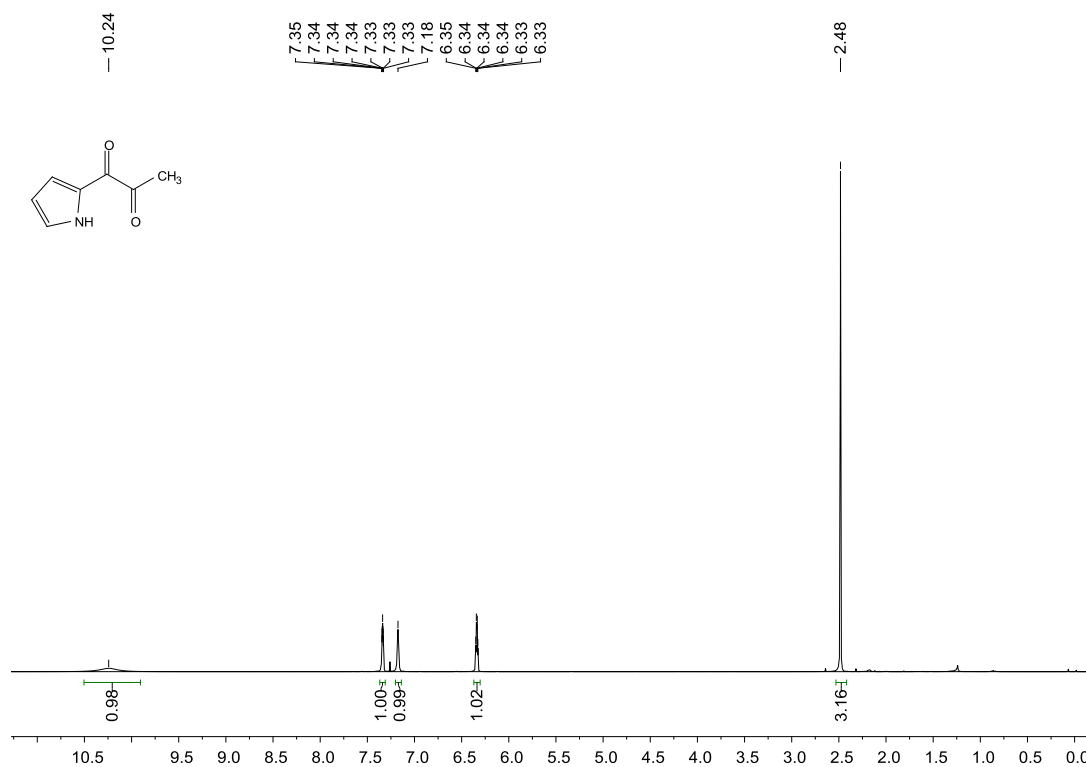
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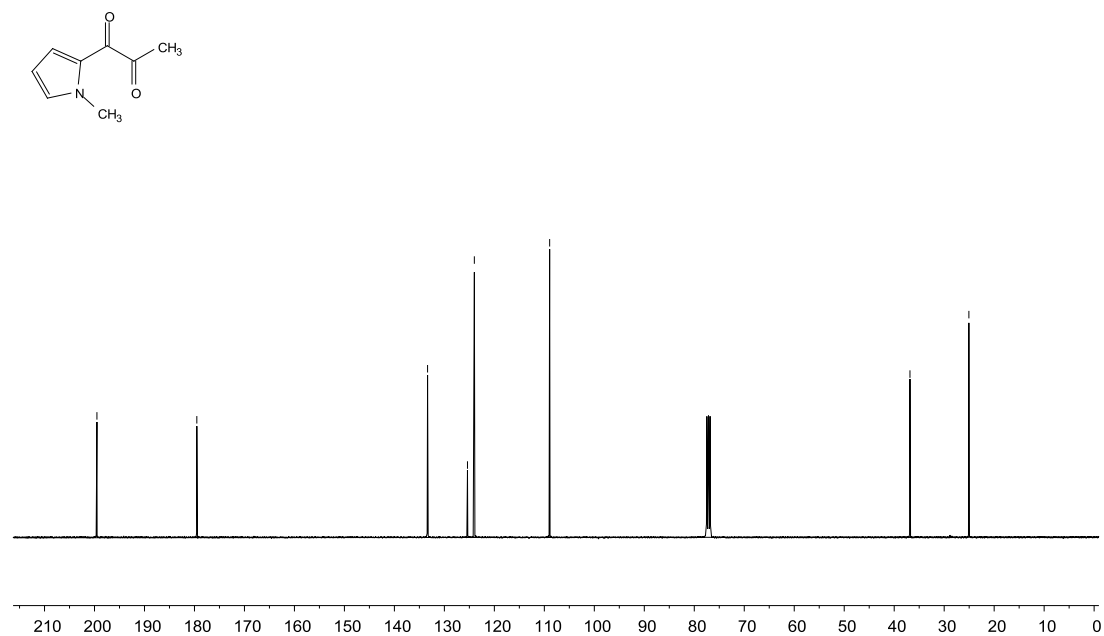
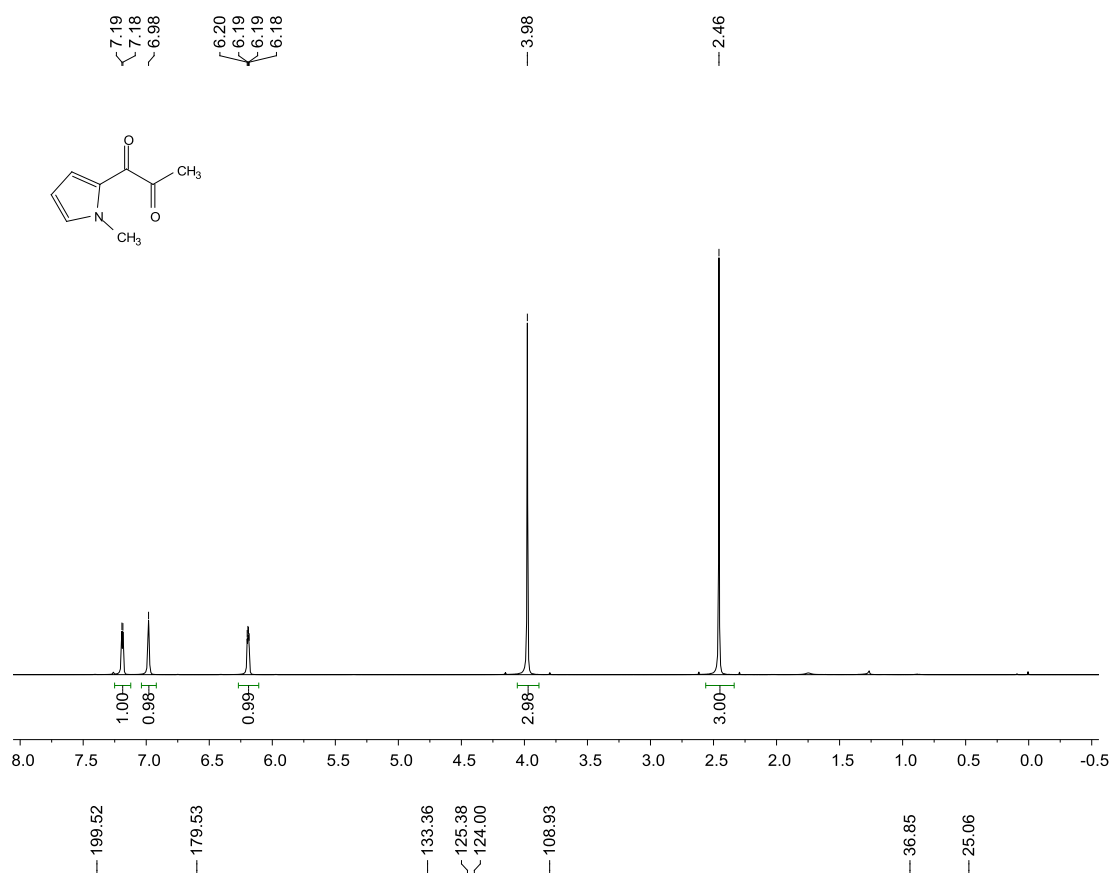
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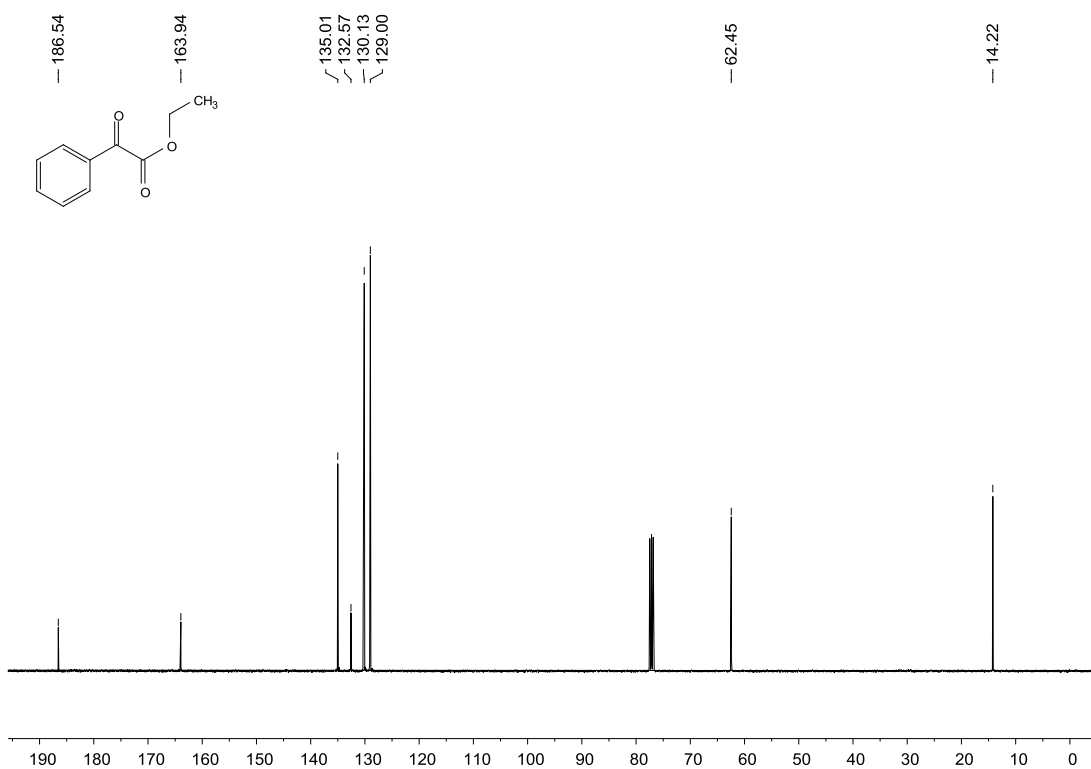
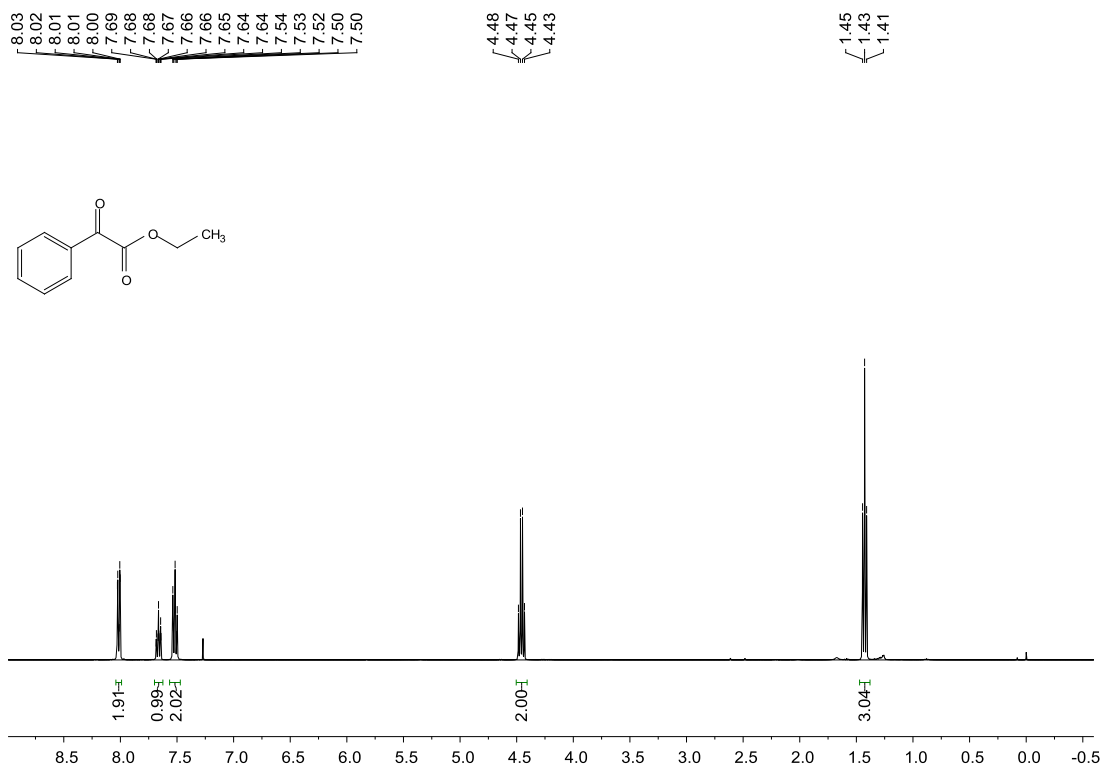
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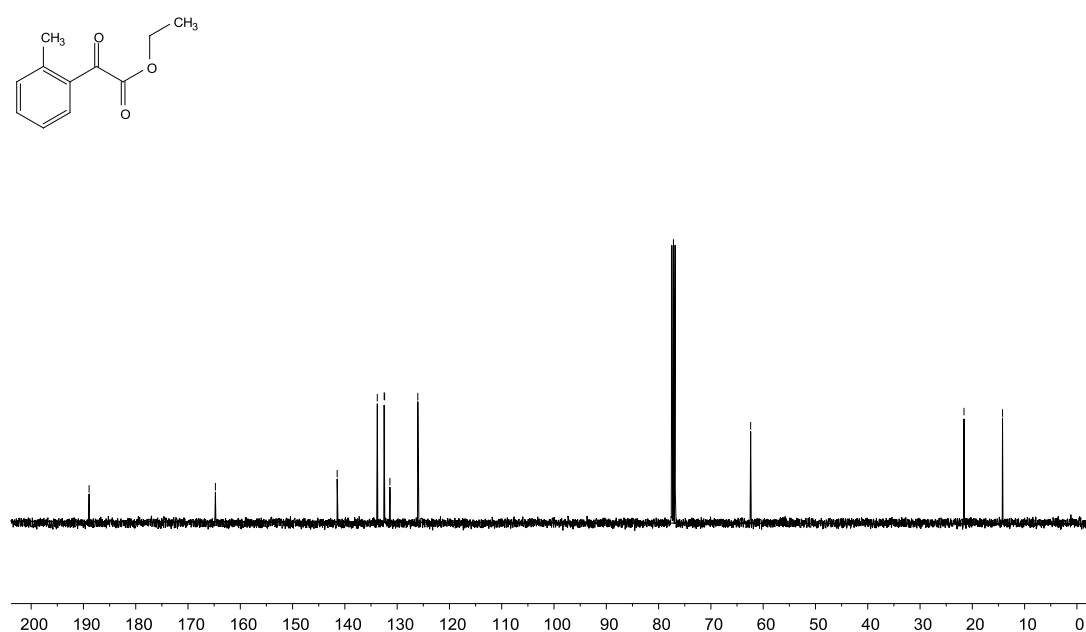
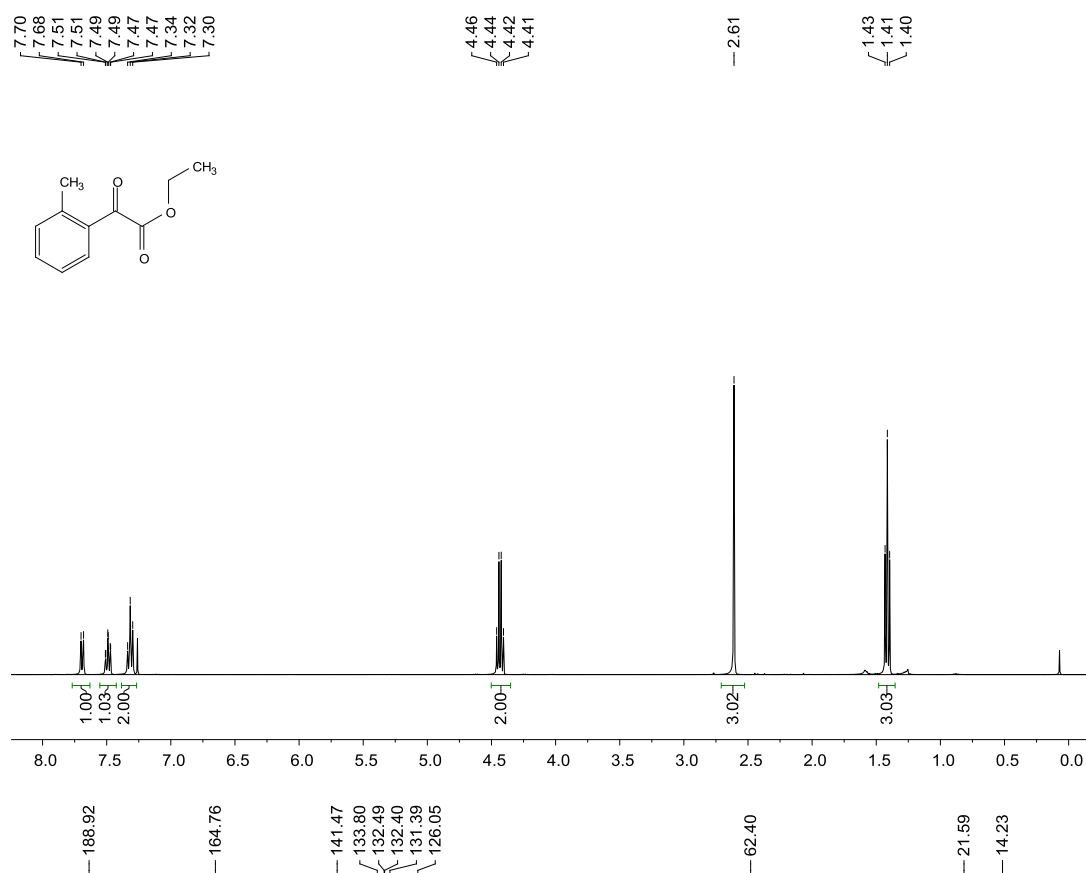
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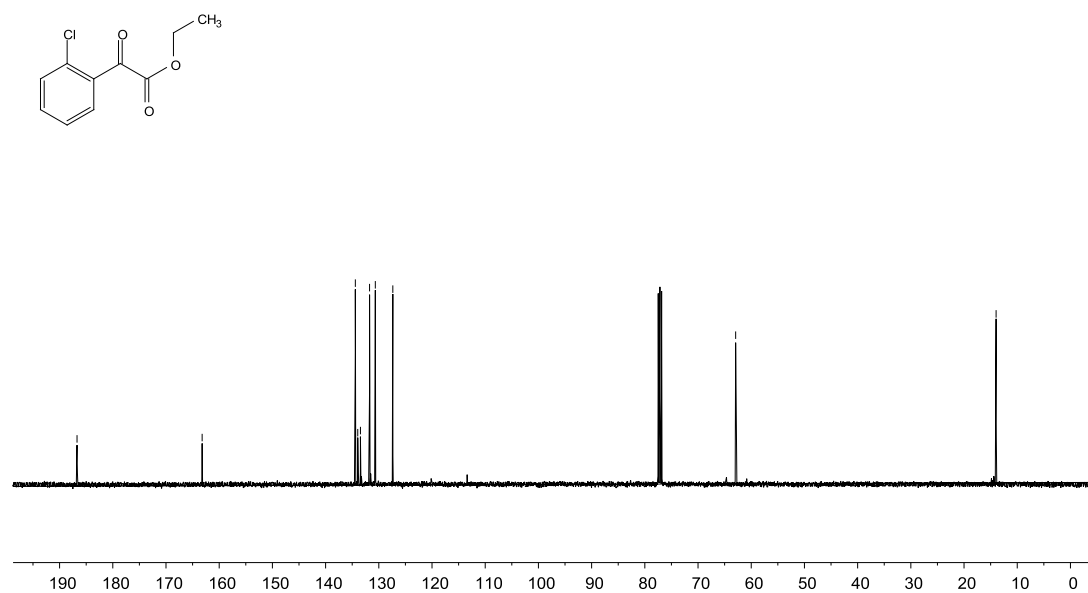
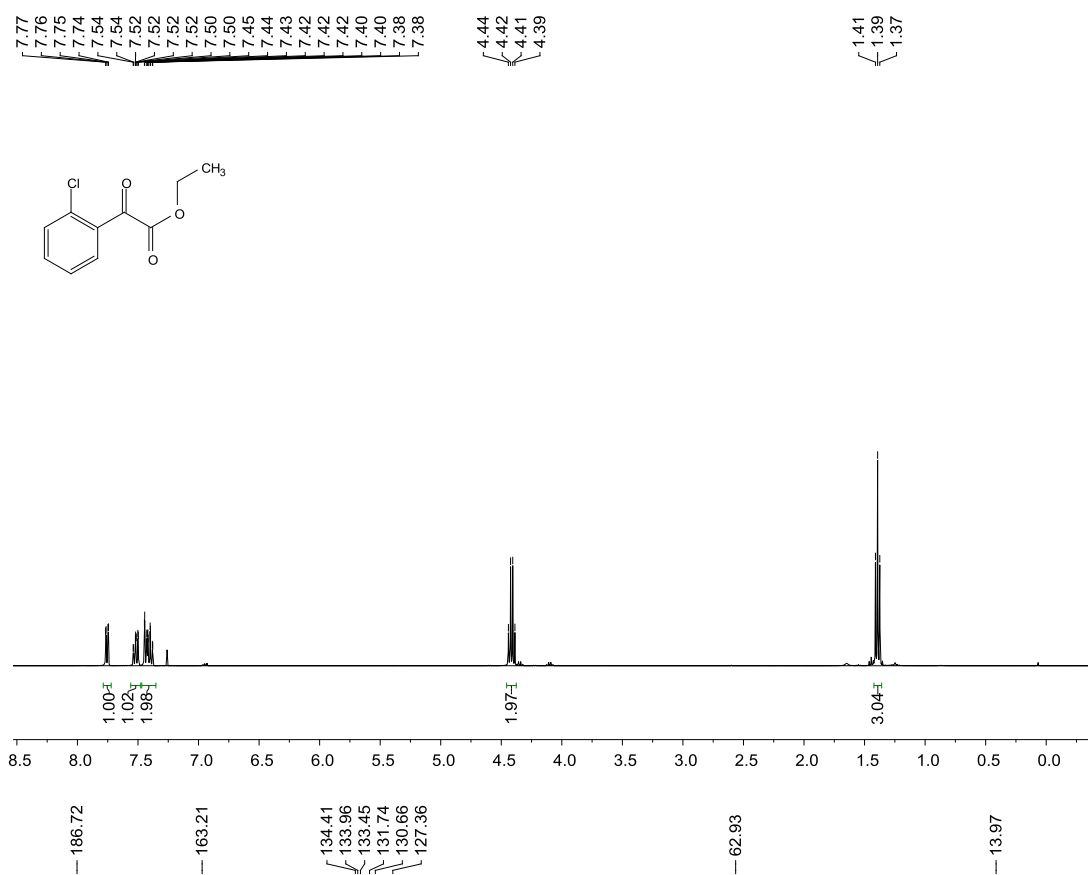
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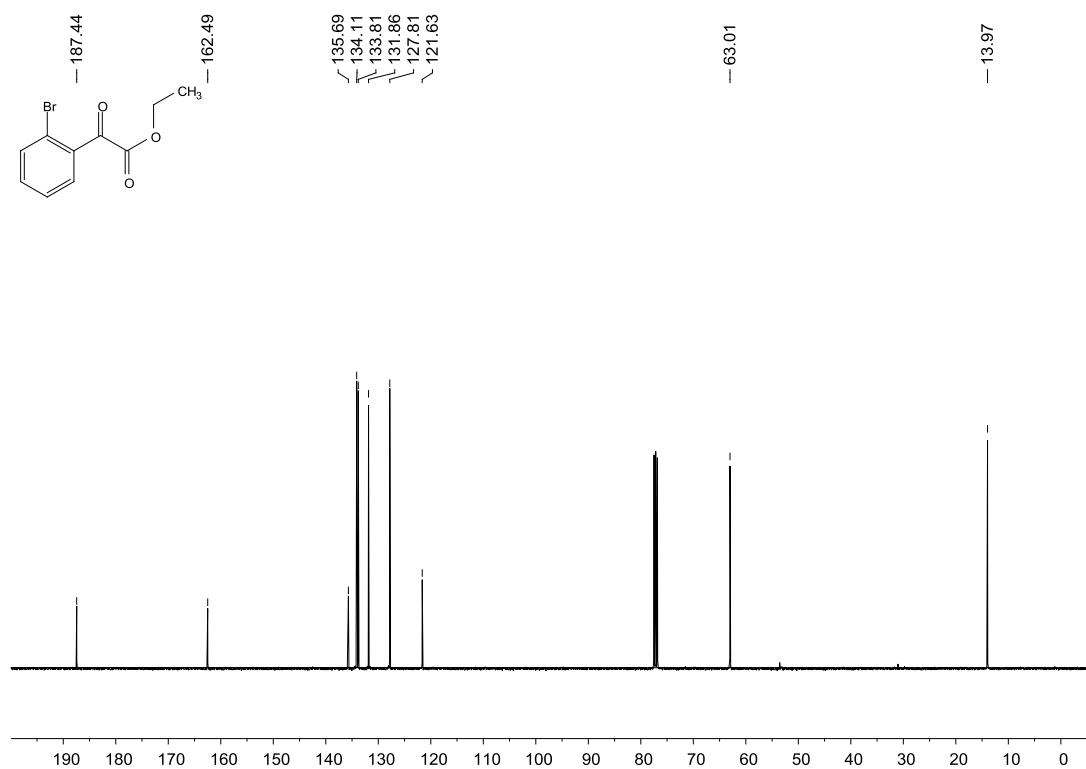
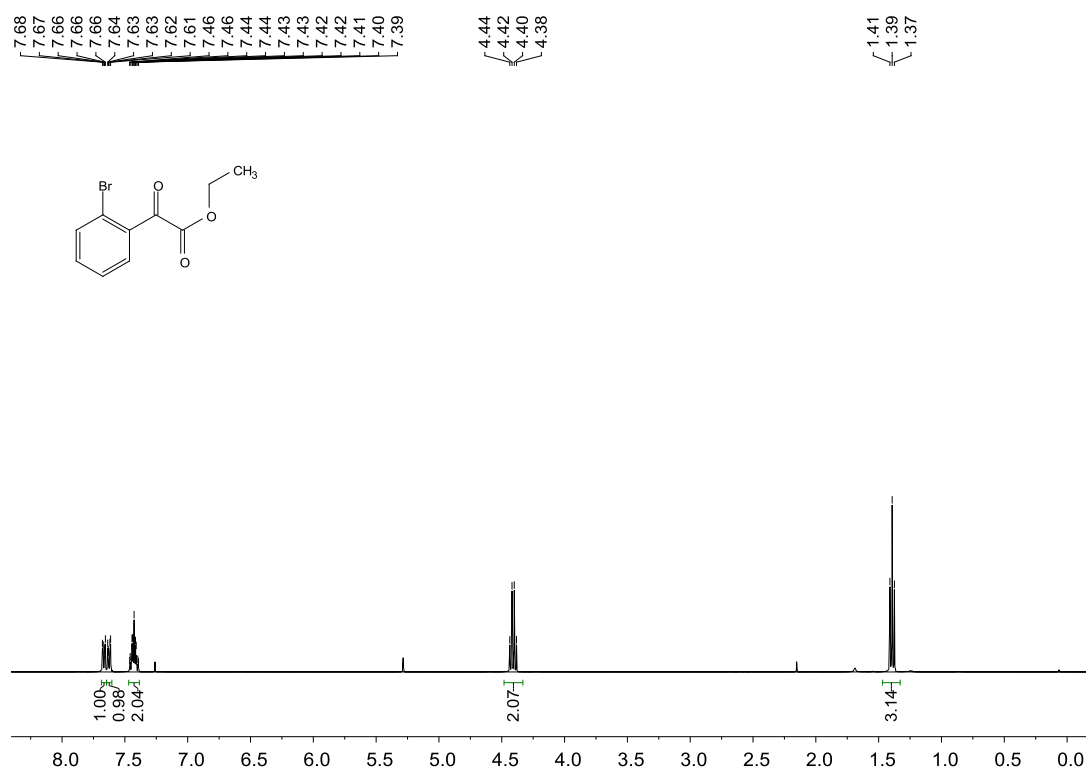
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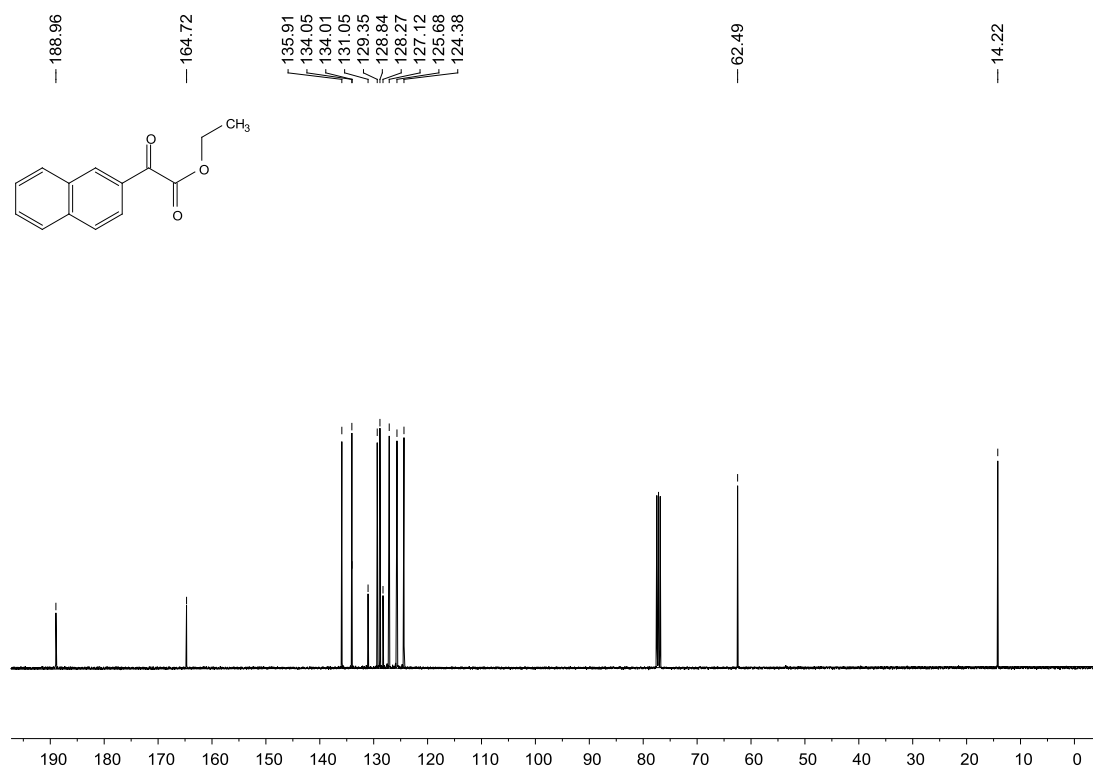
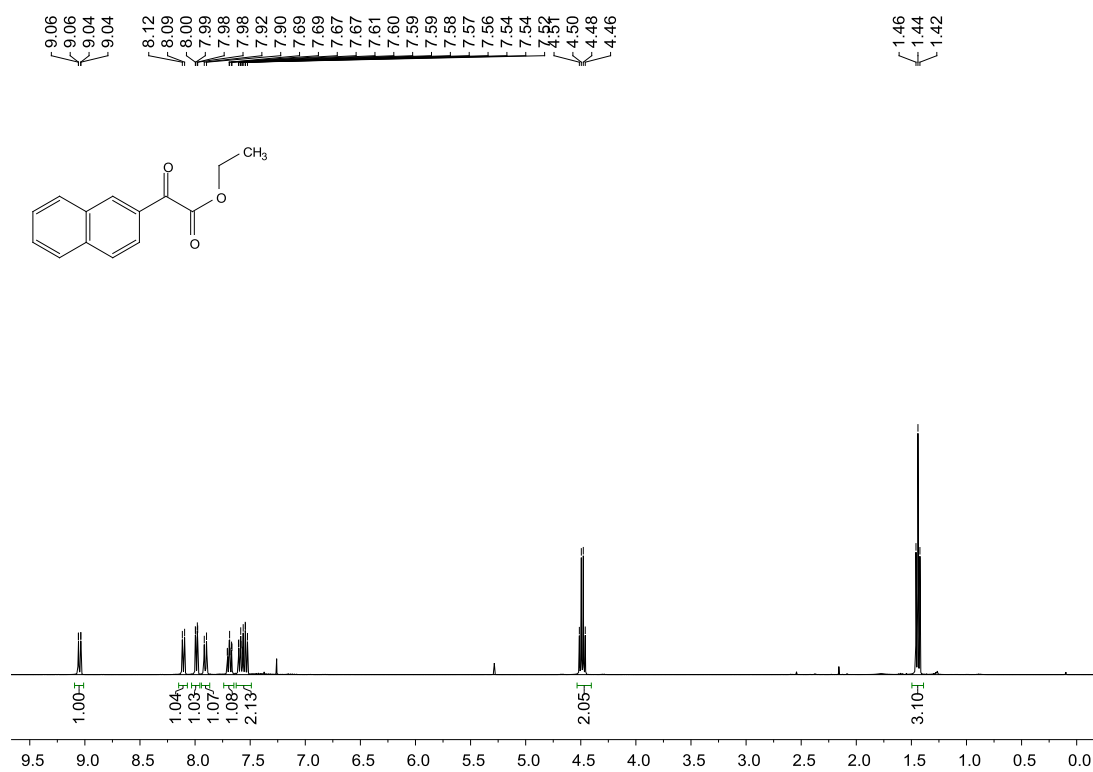
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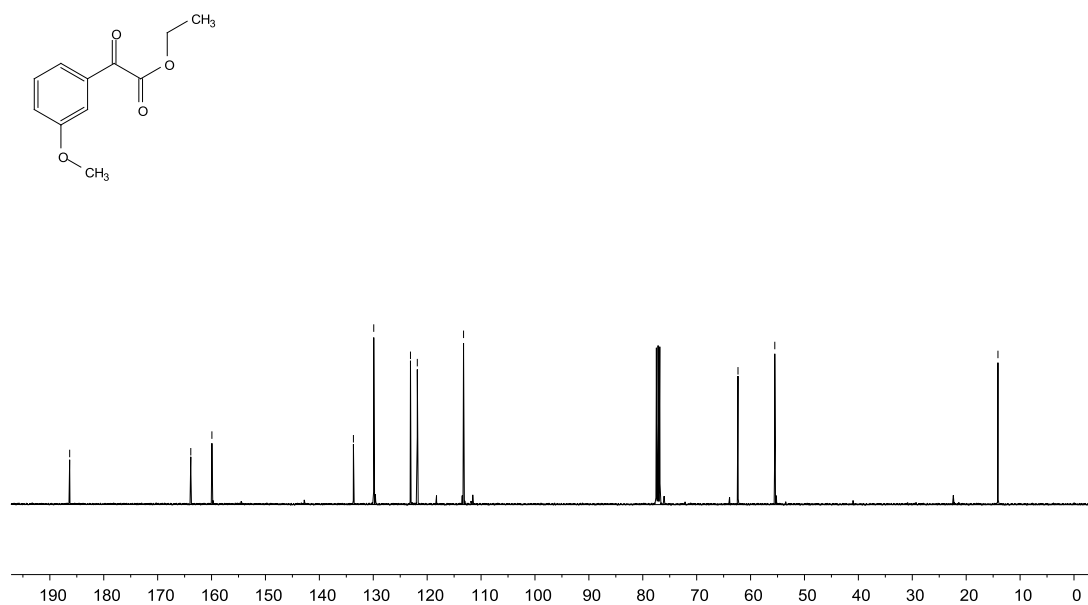
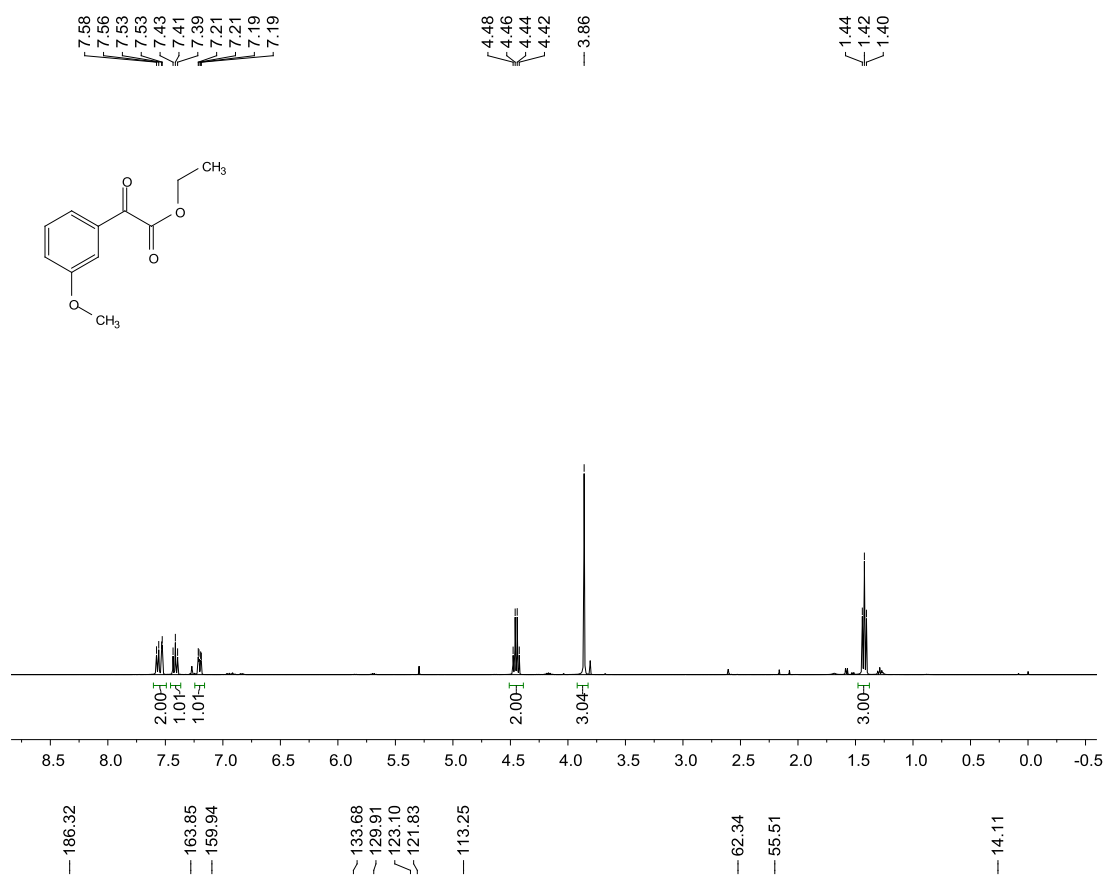
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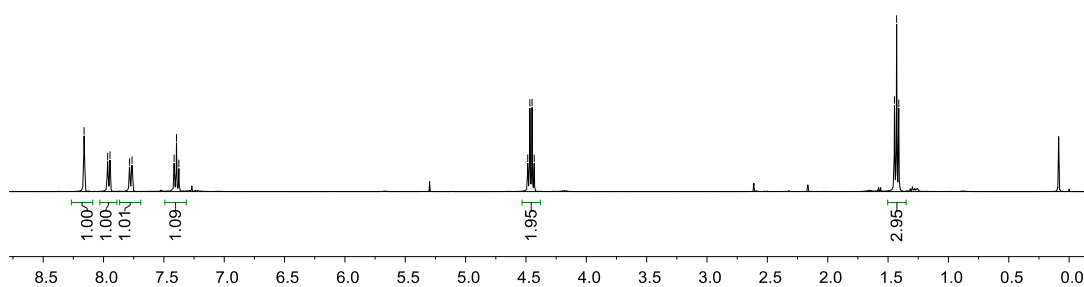
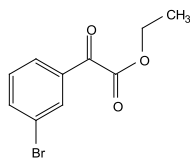


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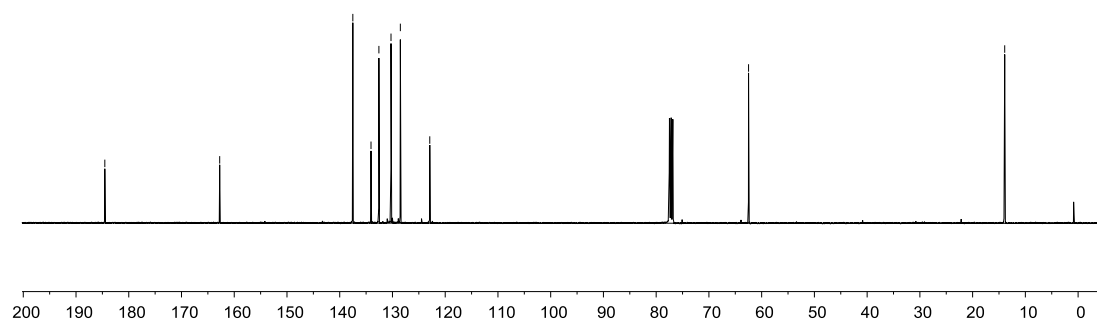
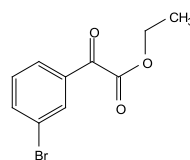
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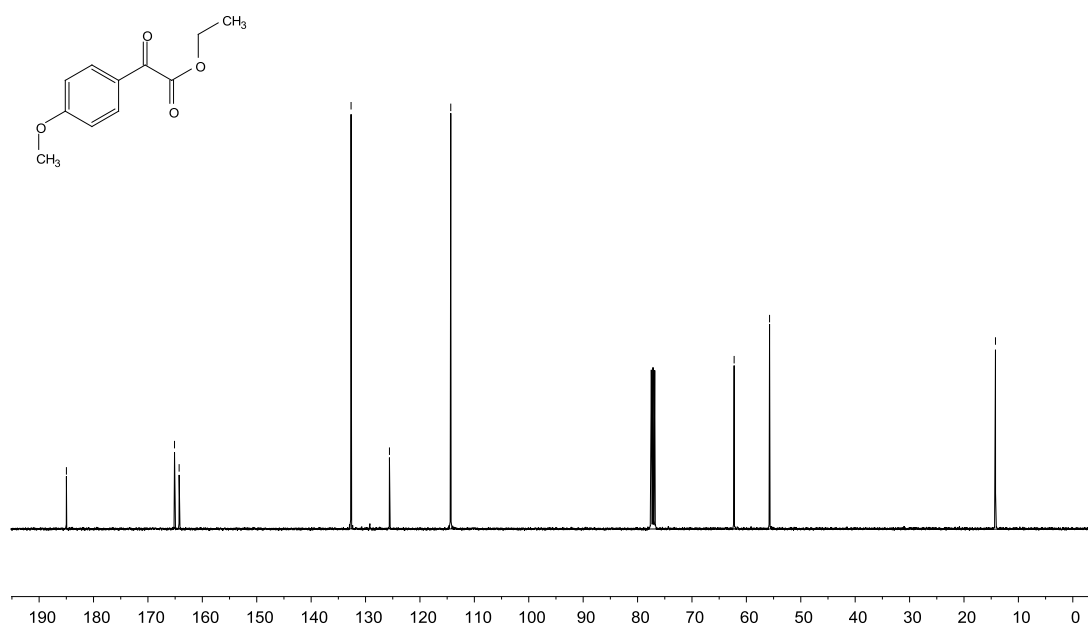
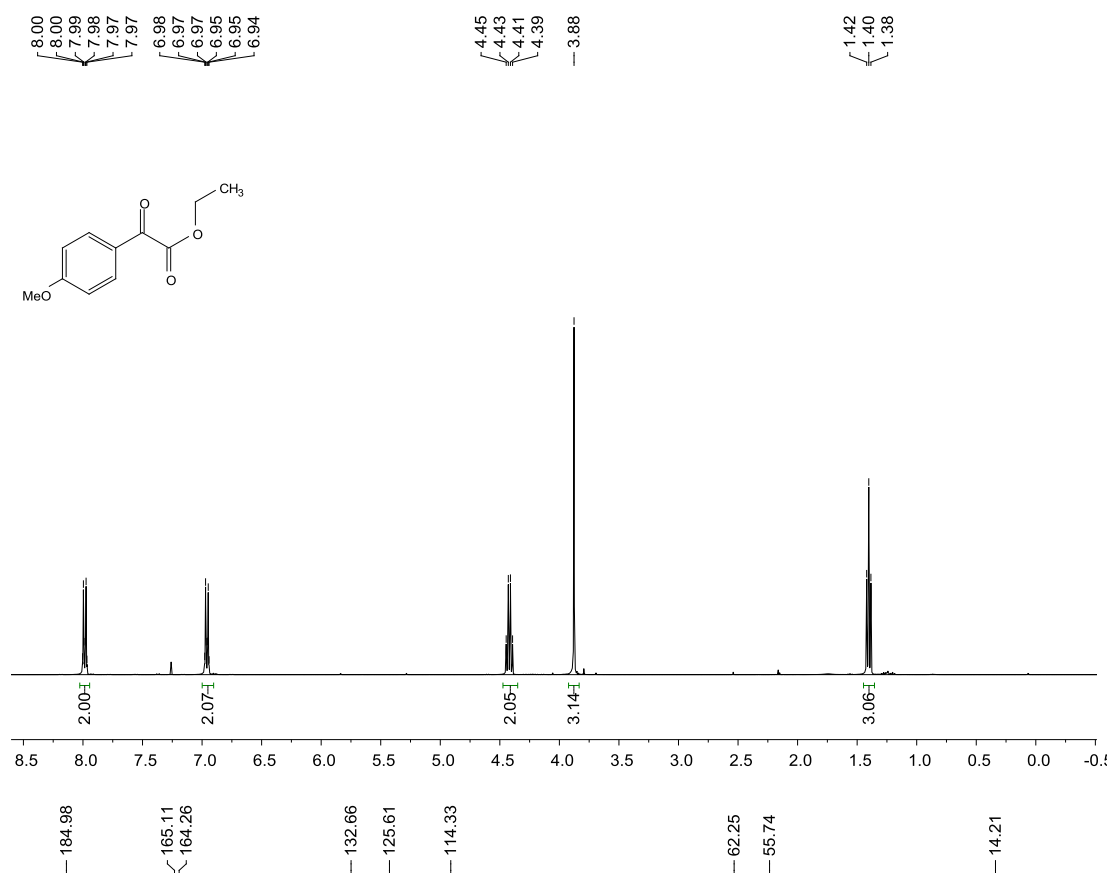
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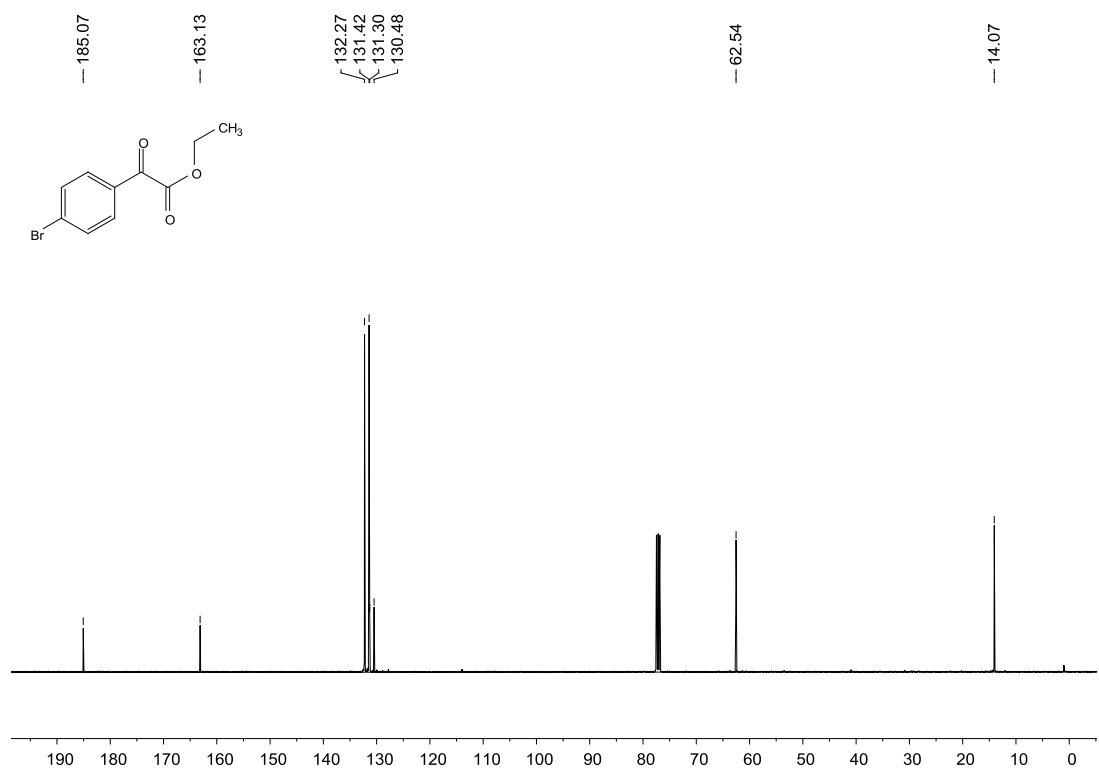
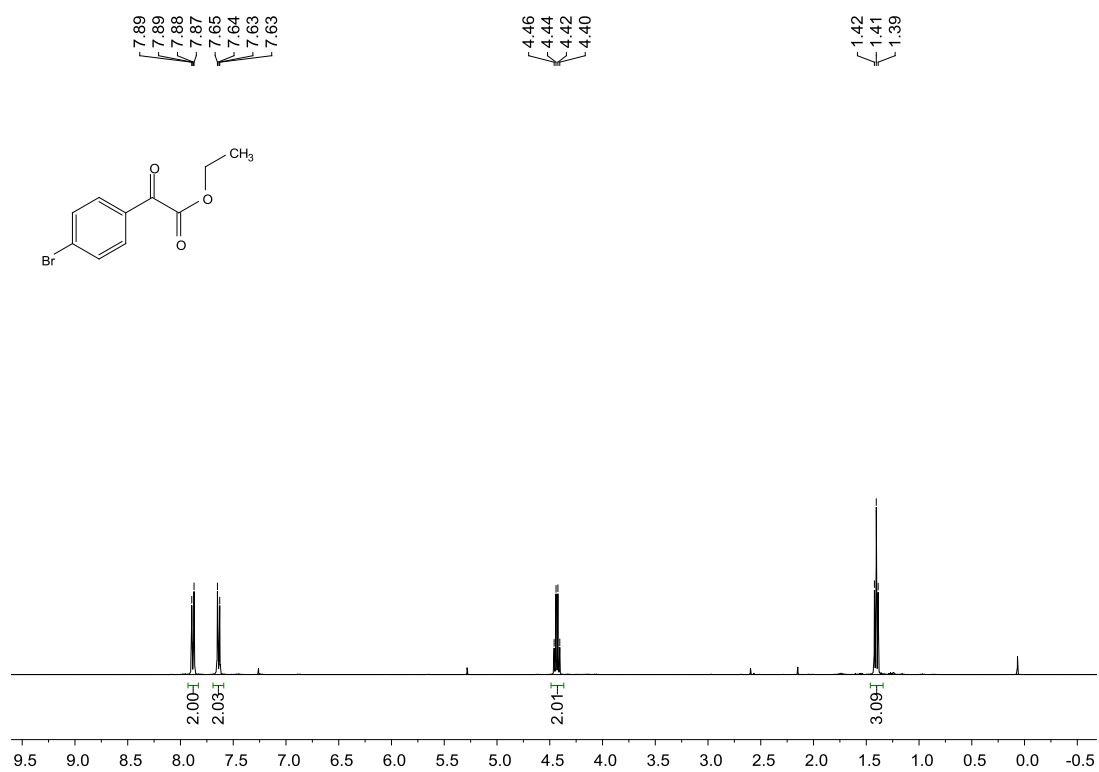
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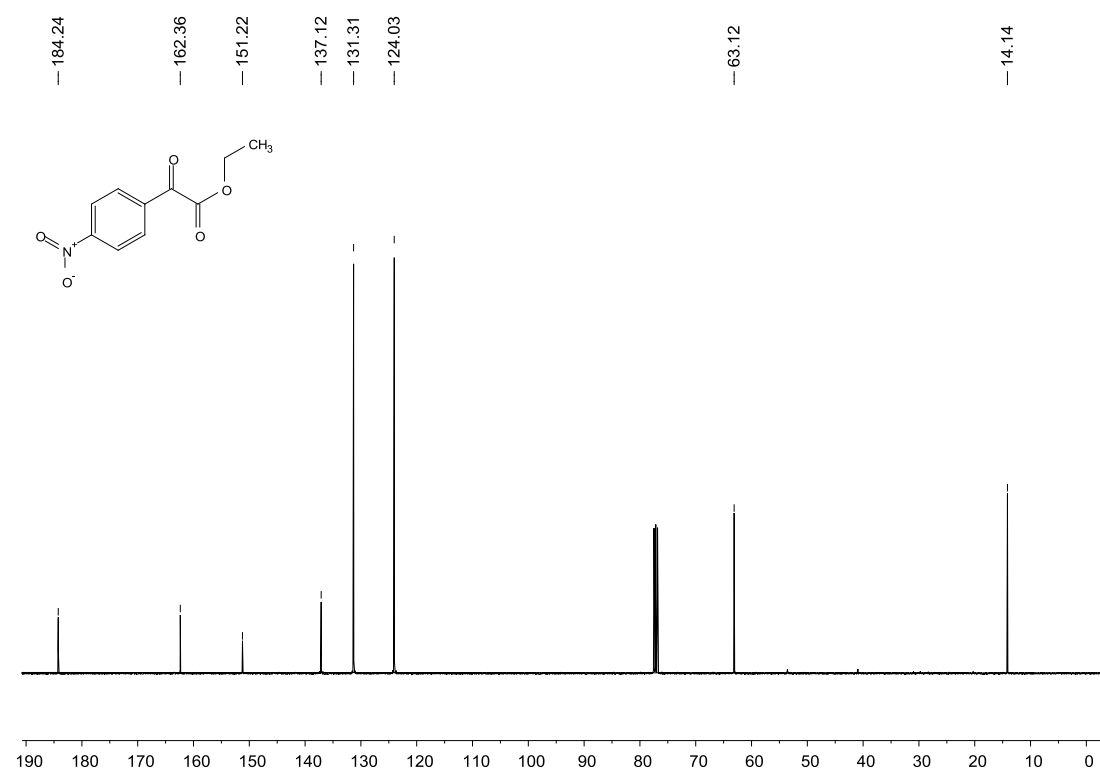
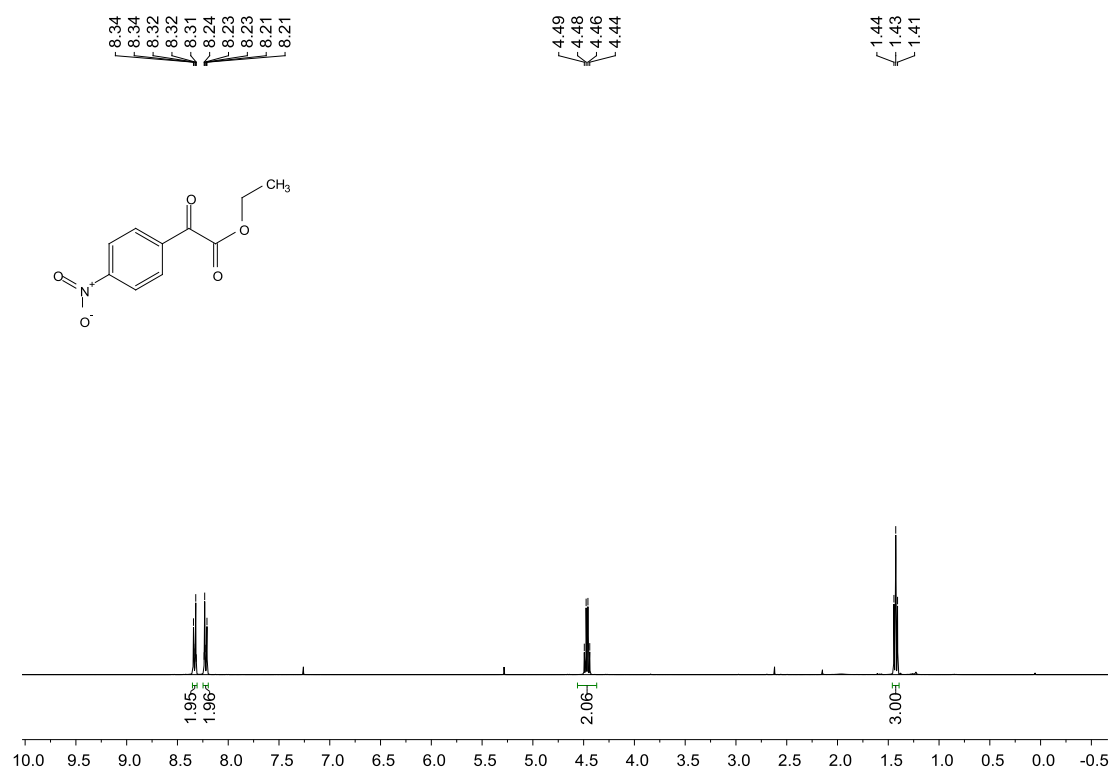
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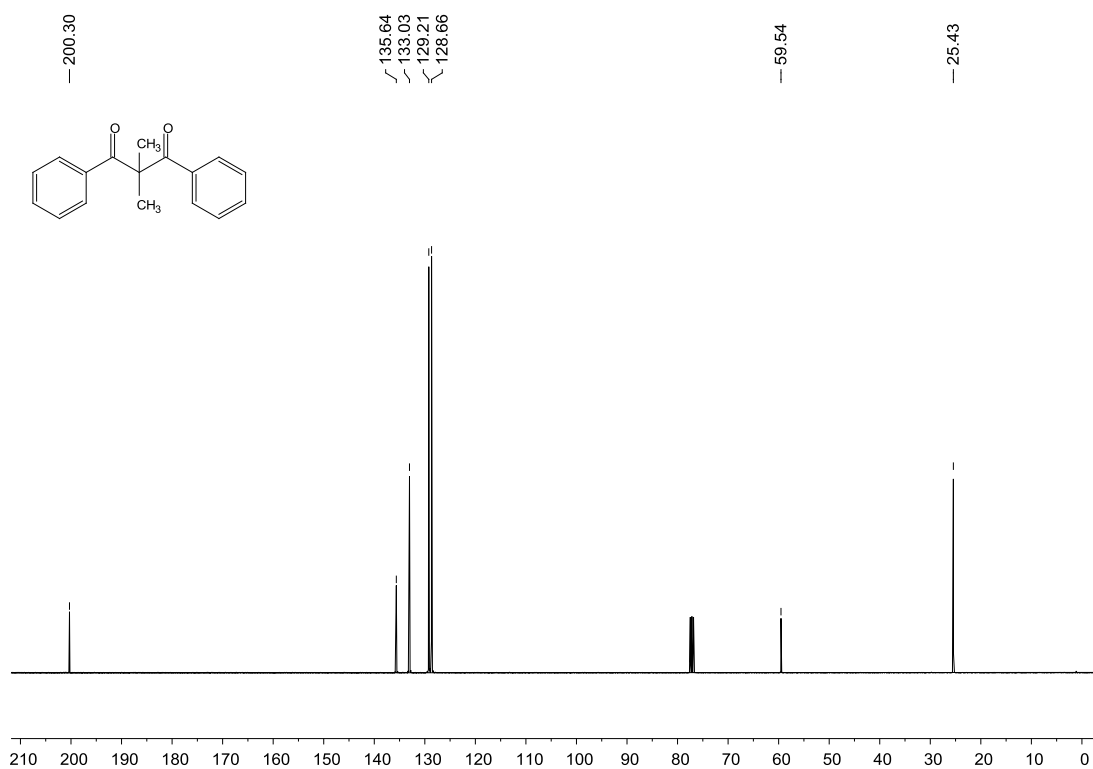
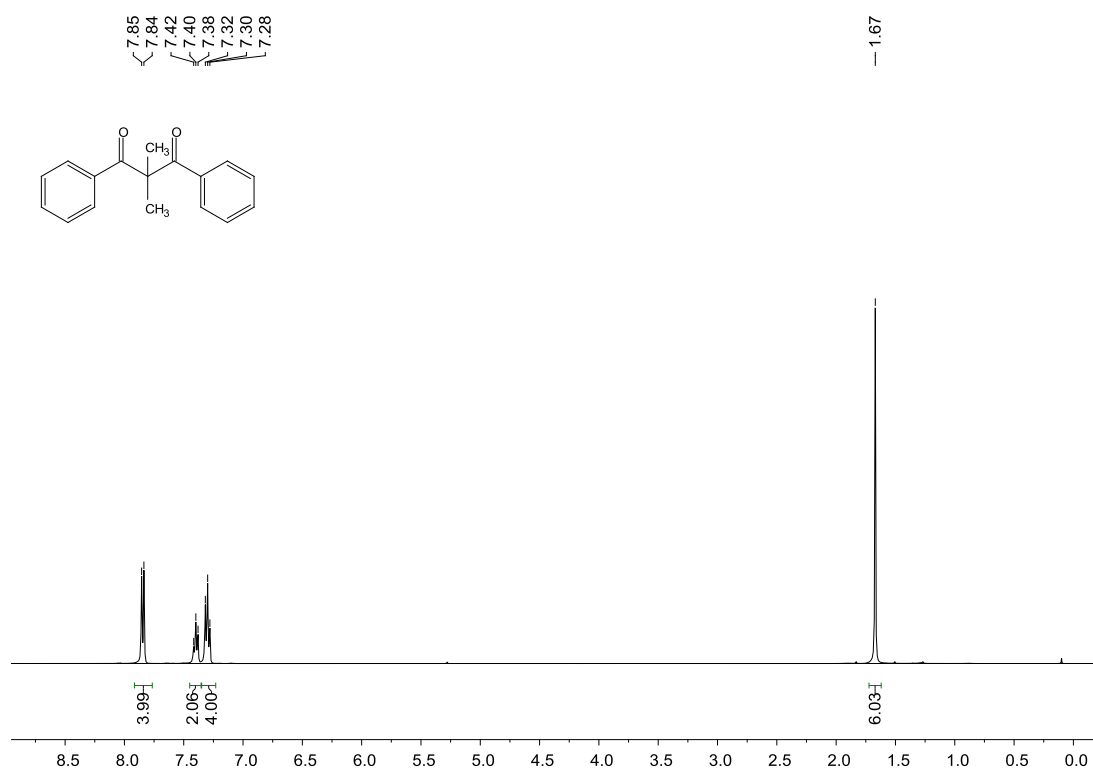
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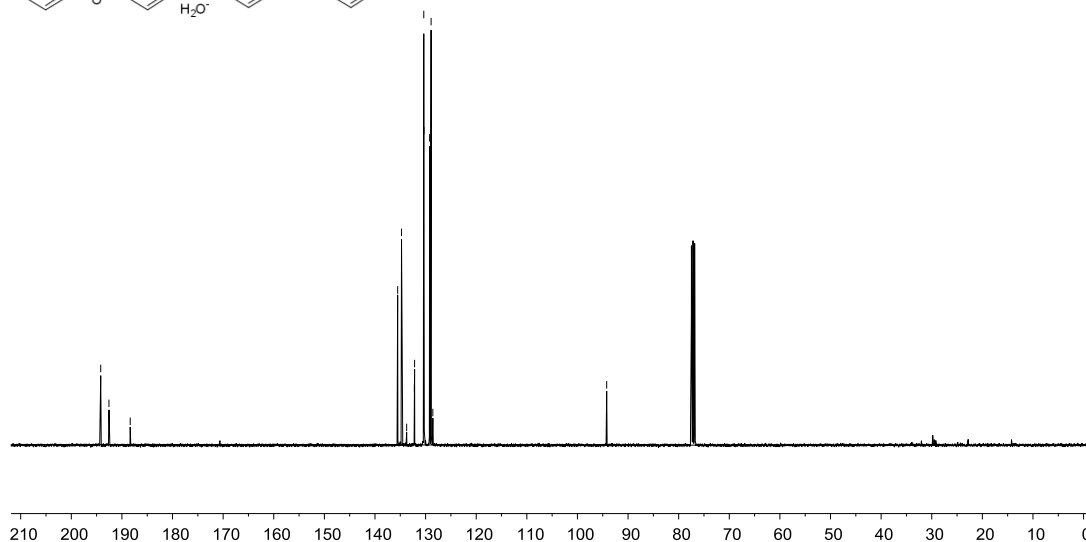
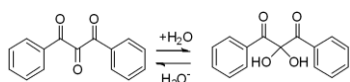
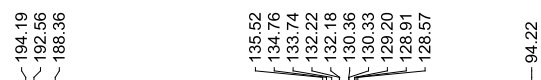
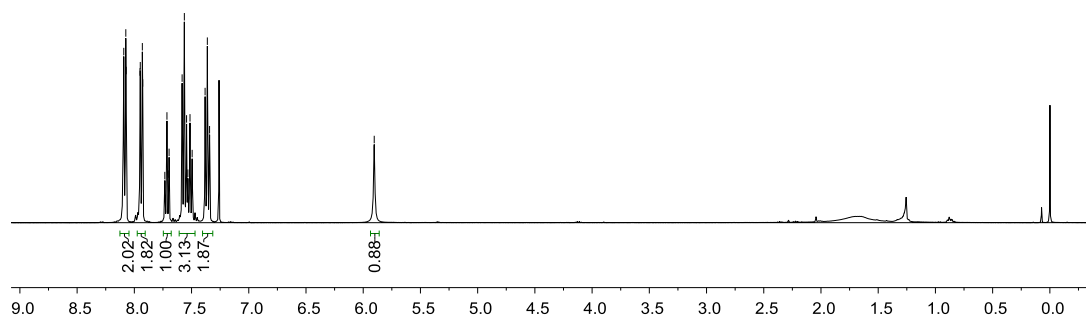
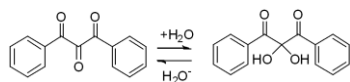
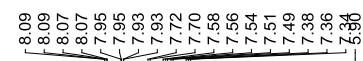
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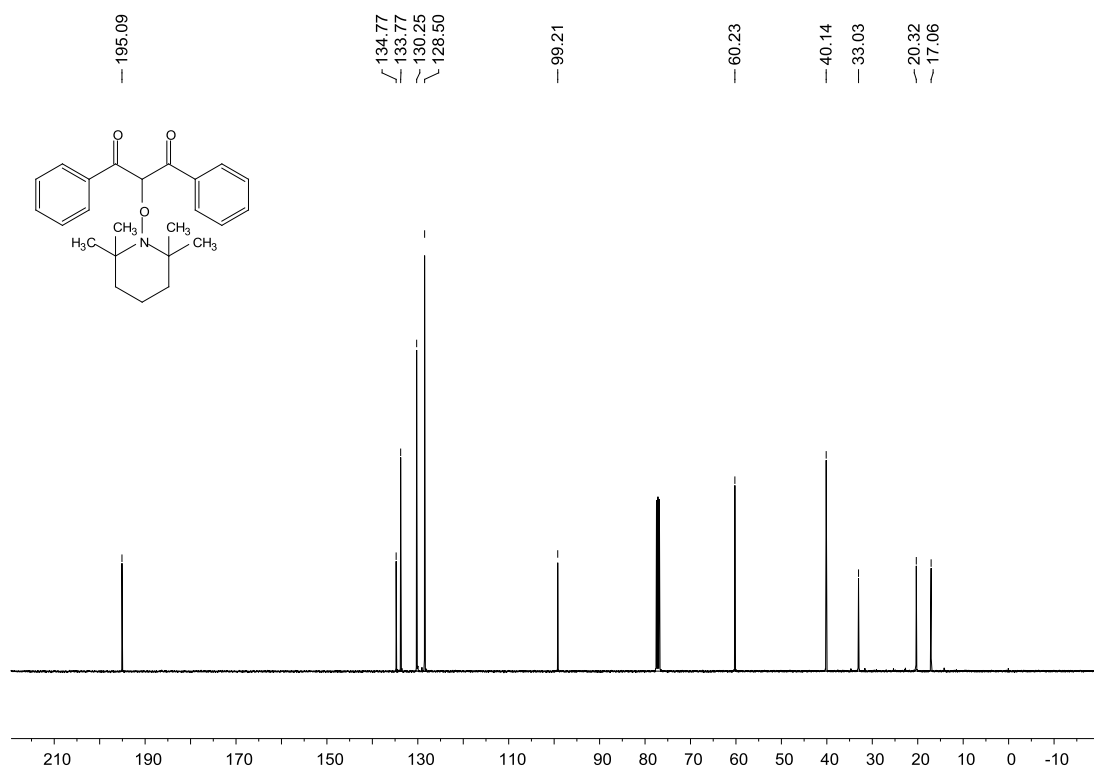
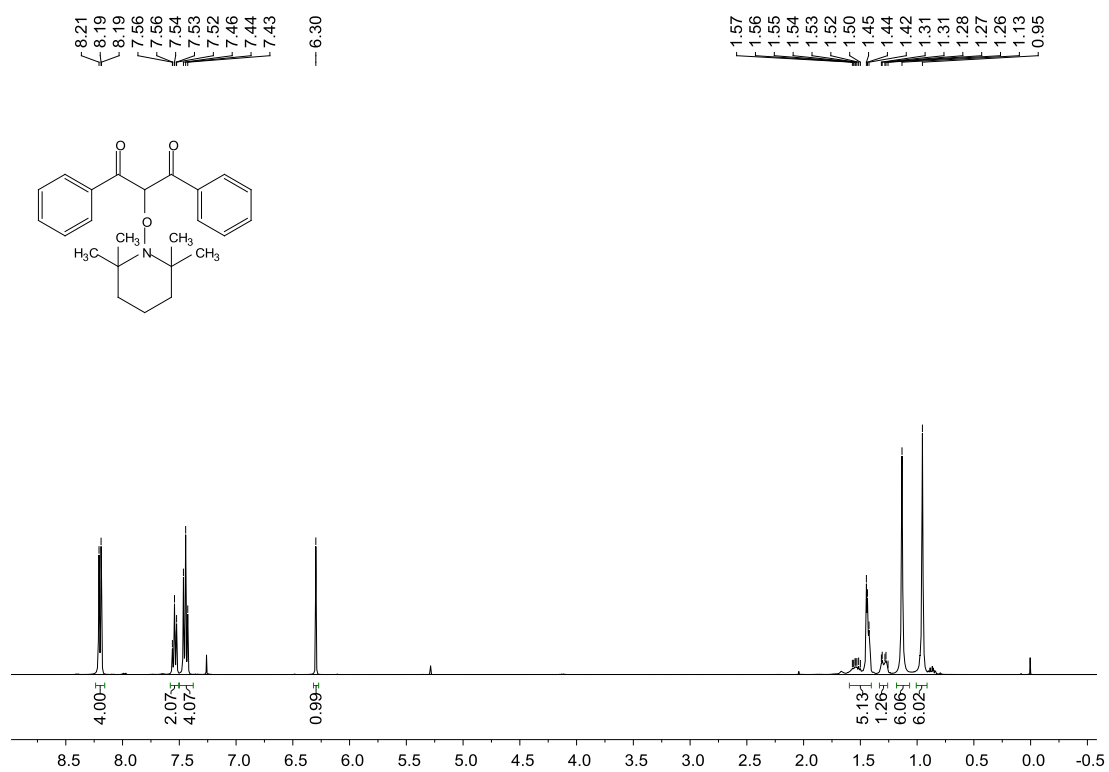
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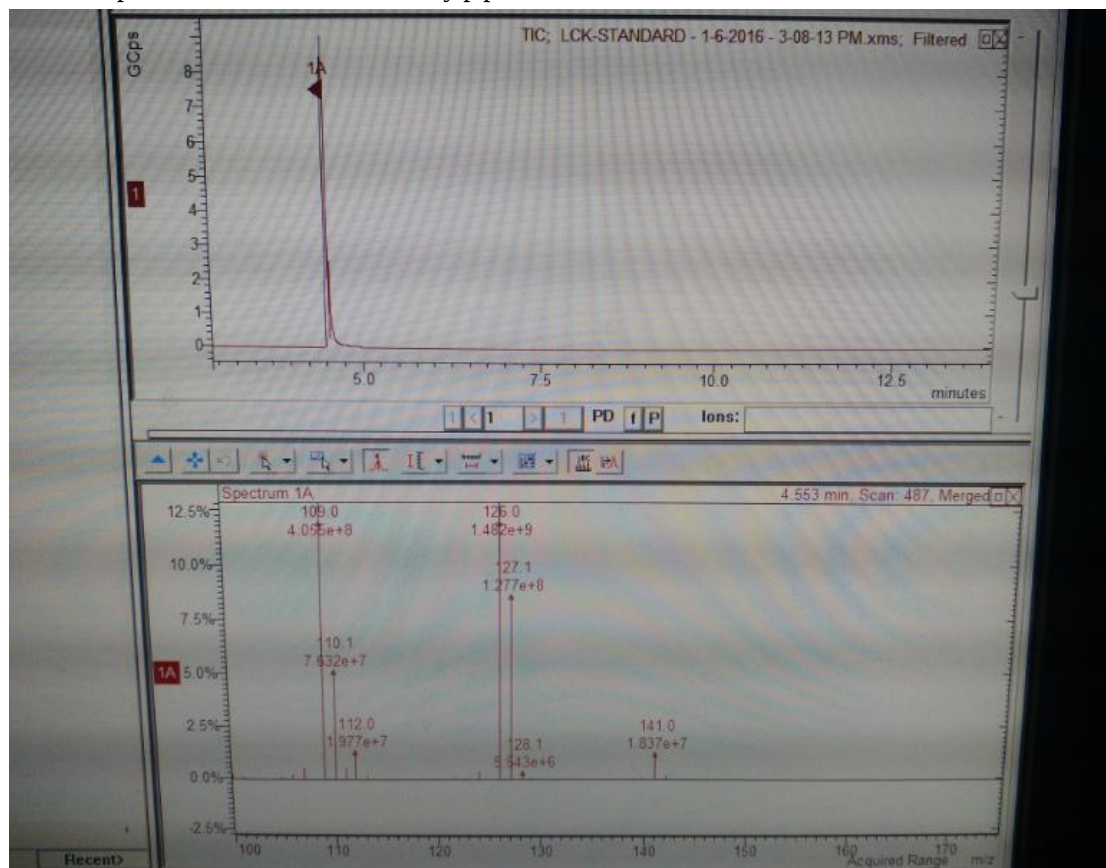
7



8



GC-MS spectrum of 2,2,6,6-tetramethylpiperidine **10**



GC-MS spectrum of reaction system

