

Supporting Information

Efficient synthesis of functionalized dihydroquinolines, quinolines and dihydrobenzo[*b*]azepine *via* an iron(III) chloride-catalyzed intramolecular alkyne-carbonyl metathesis of alkyne tethered 2-amino benzaldehyde/acetophenone derivatives

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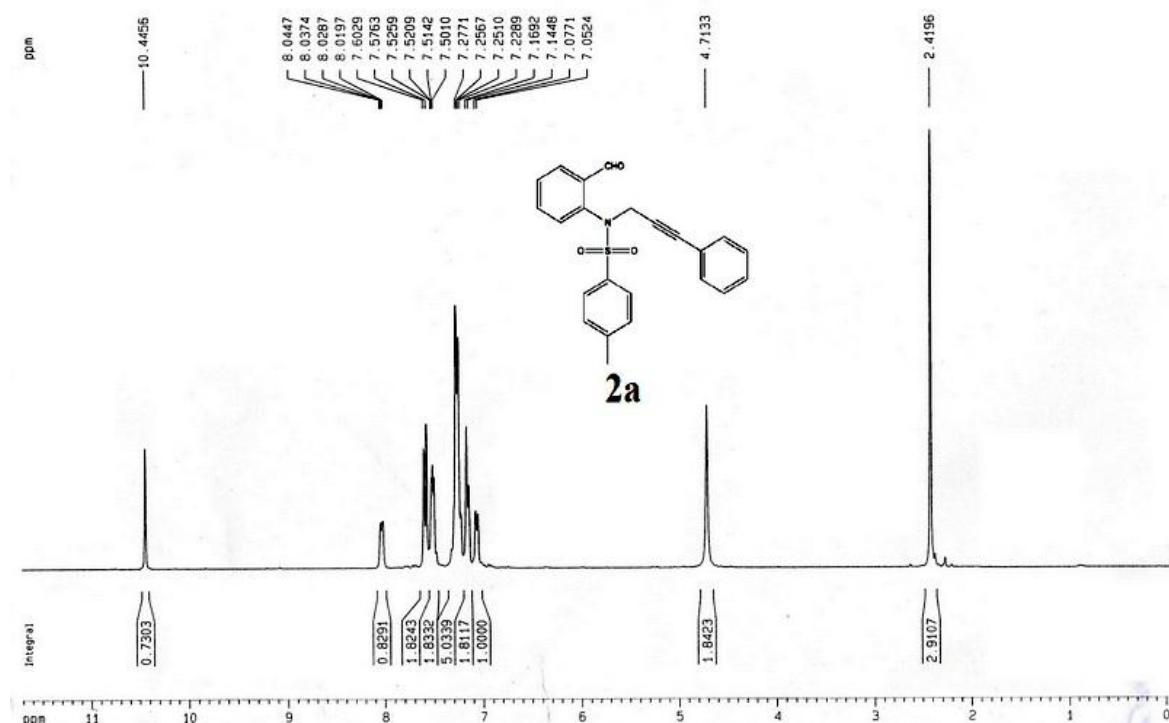
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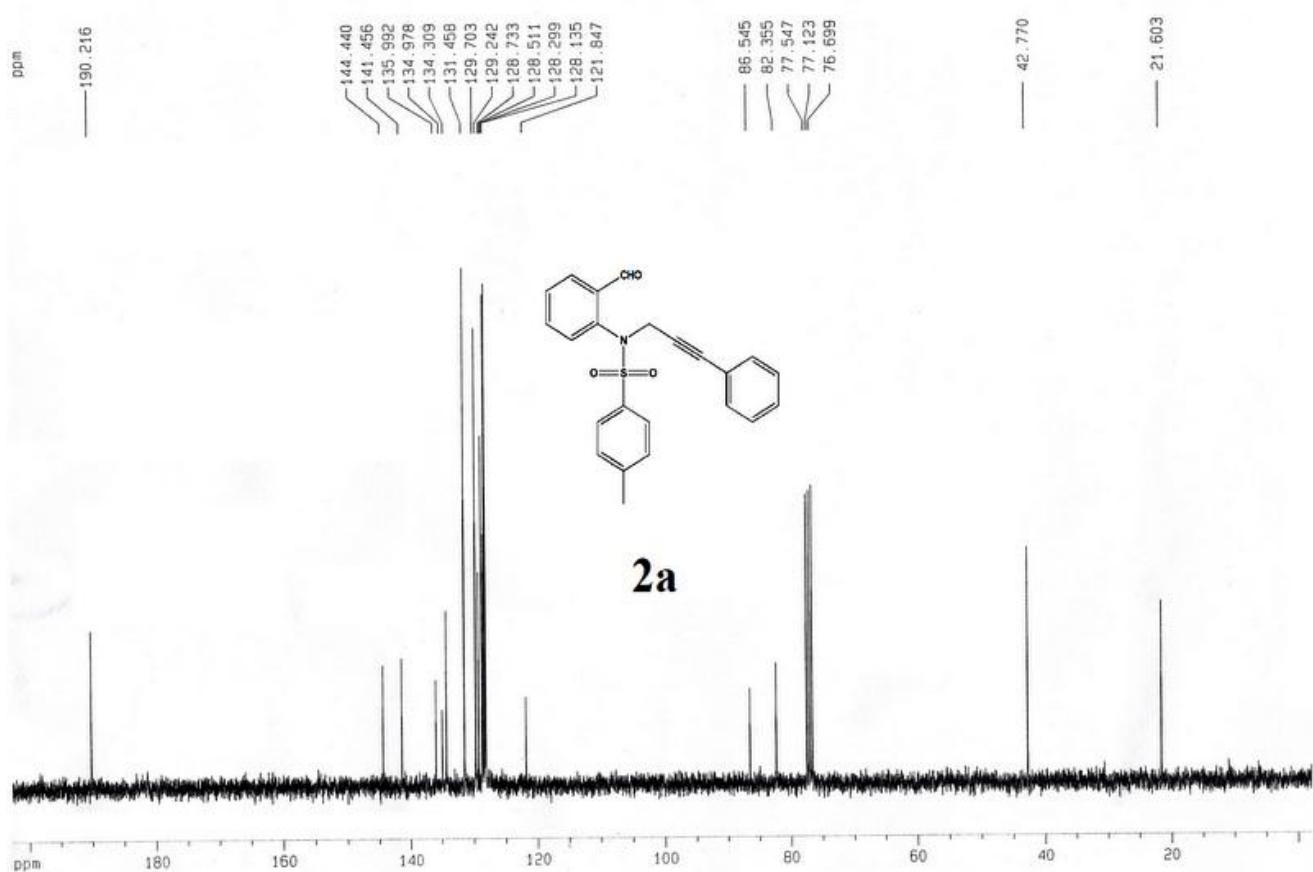
Table of Contents

¹ H & ¹³ C NMR spectra of compounds (2a-2j , 4a-4b , 3a-3j , 5a-5b , 6a-6c , 7a-7d , 8a-8d):	p2-35
Crystal Structure of the compound 3b :	p36

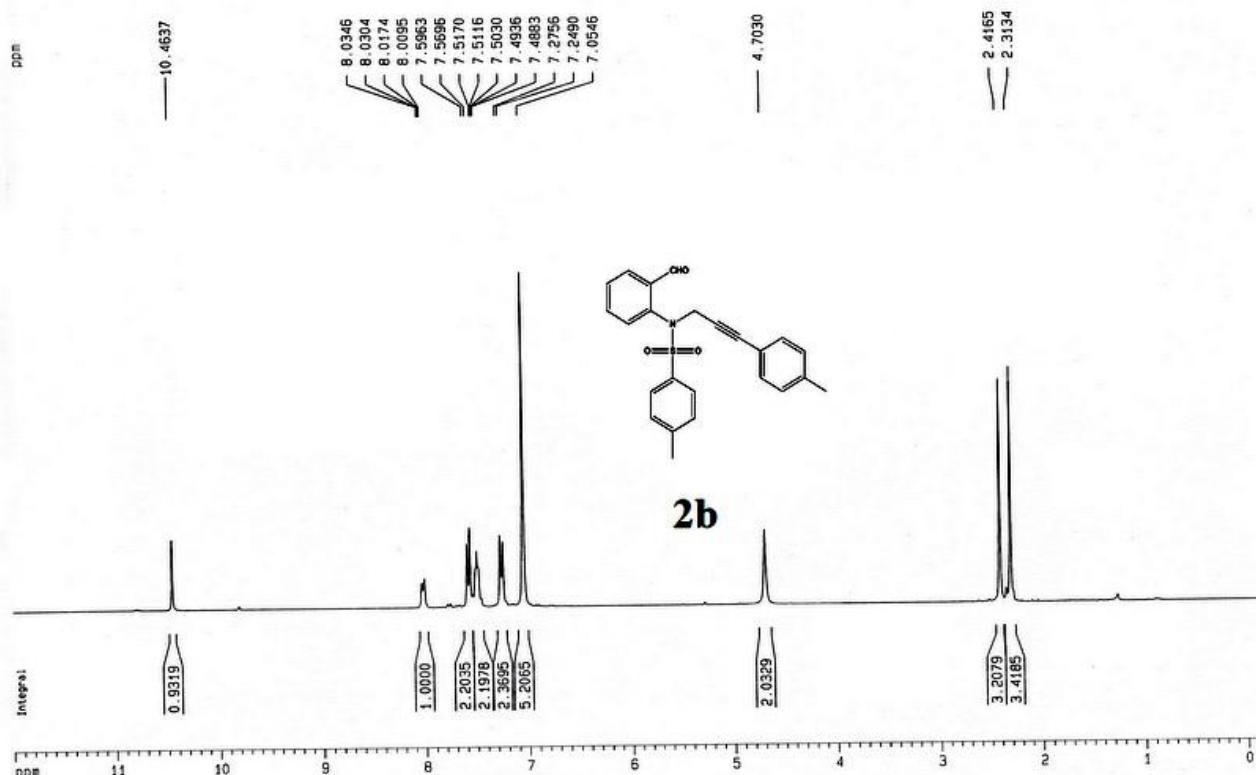
¹H NMR of compound 2a



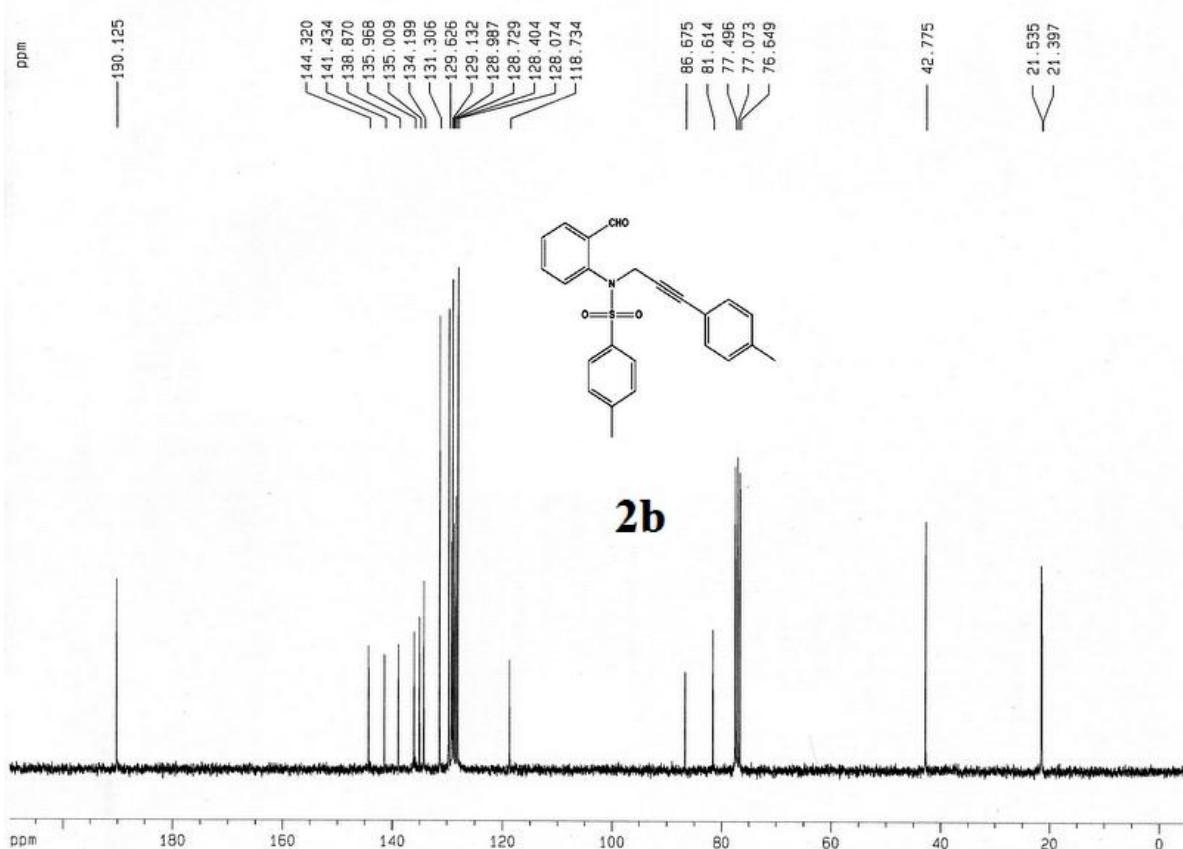
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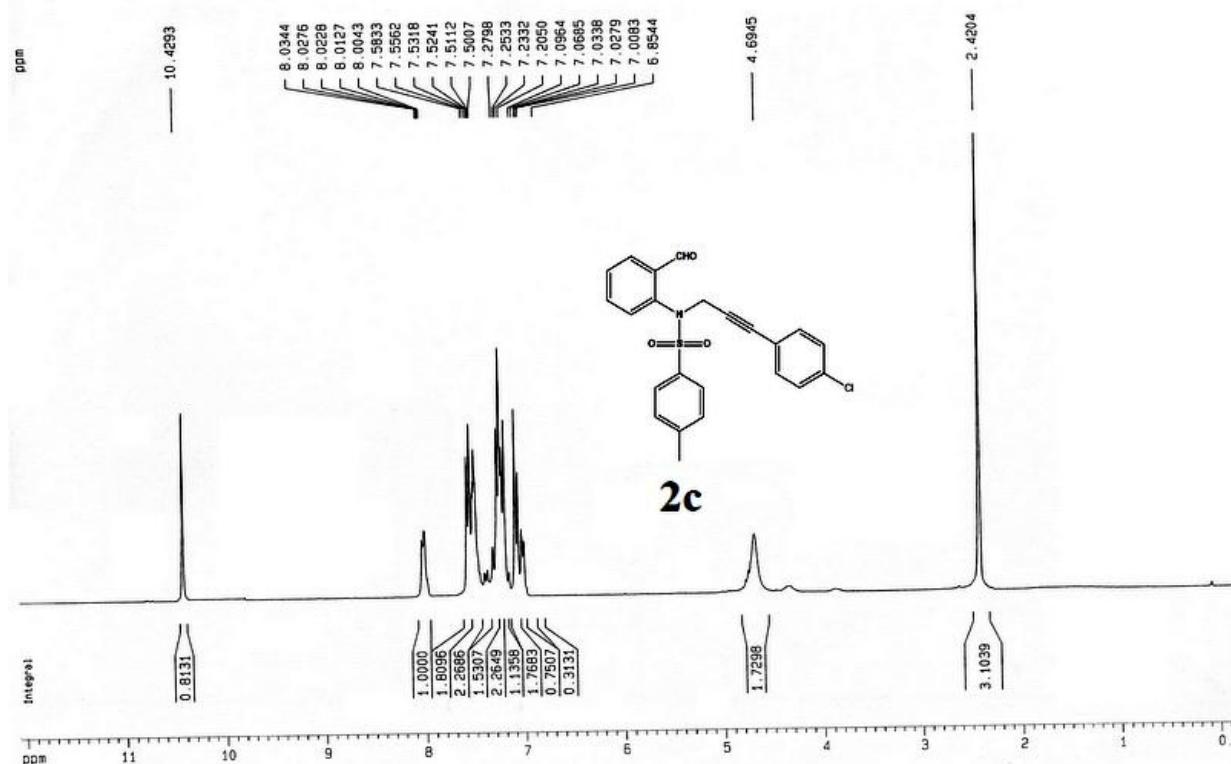
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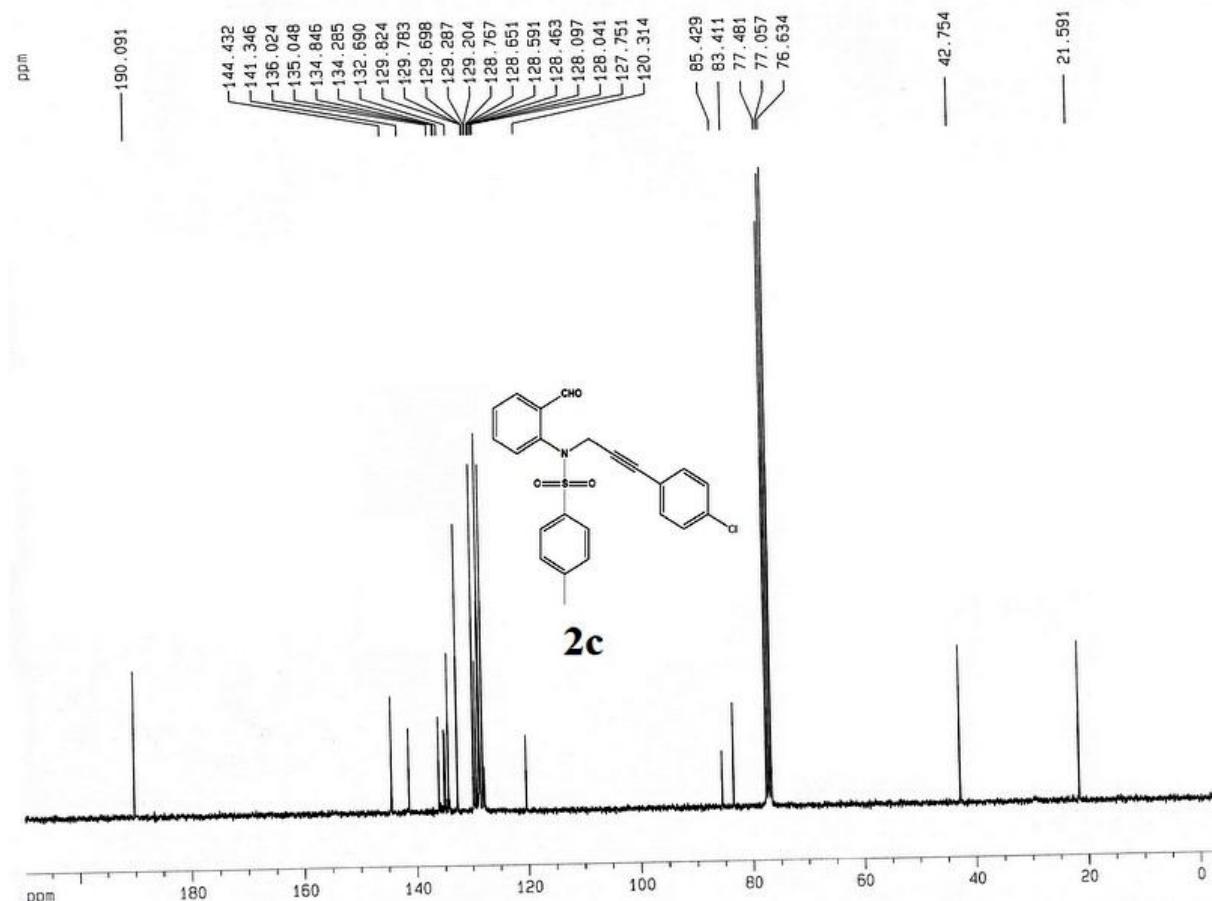
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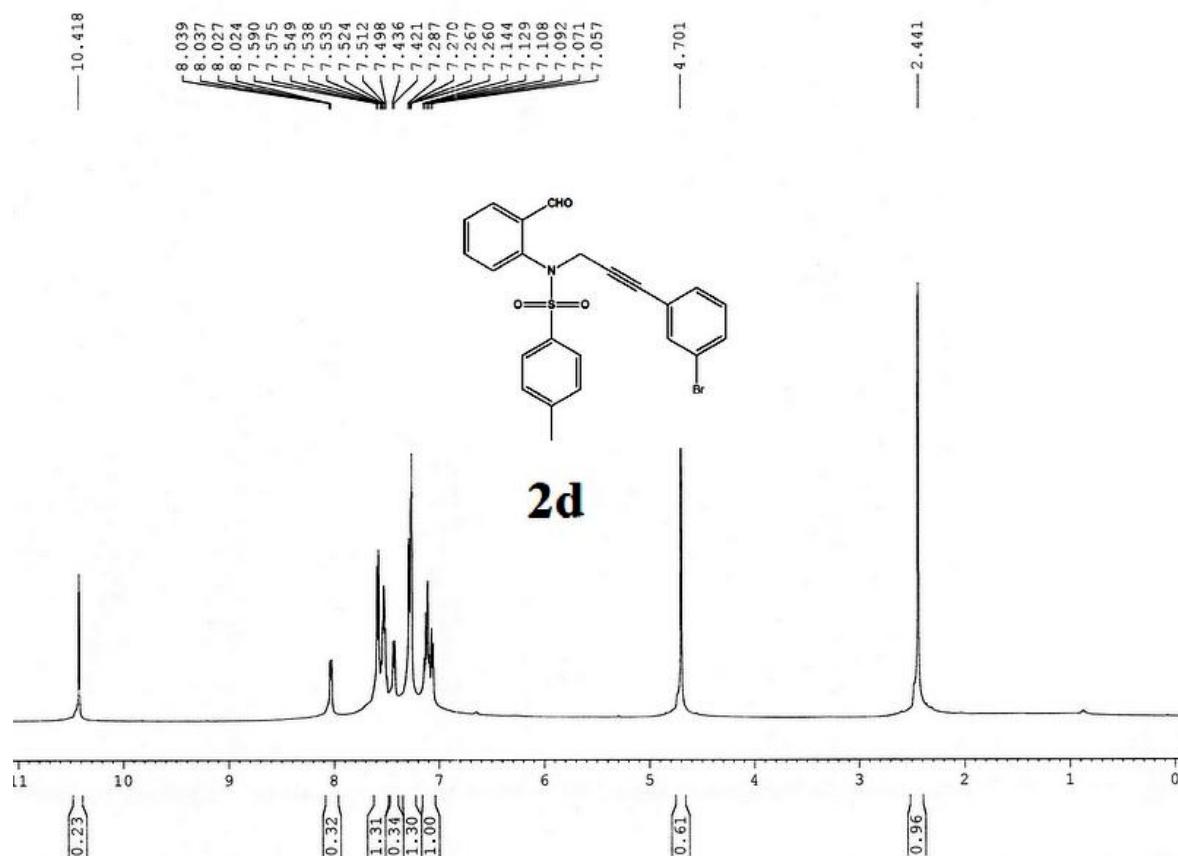
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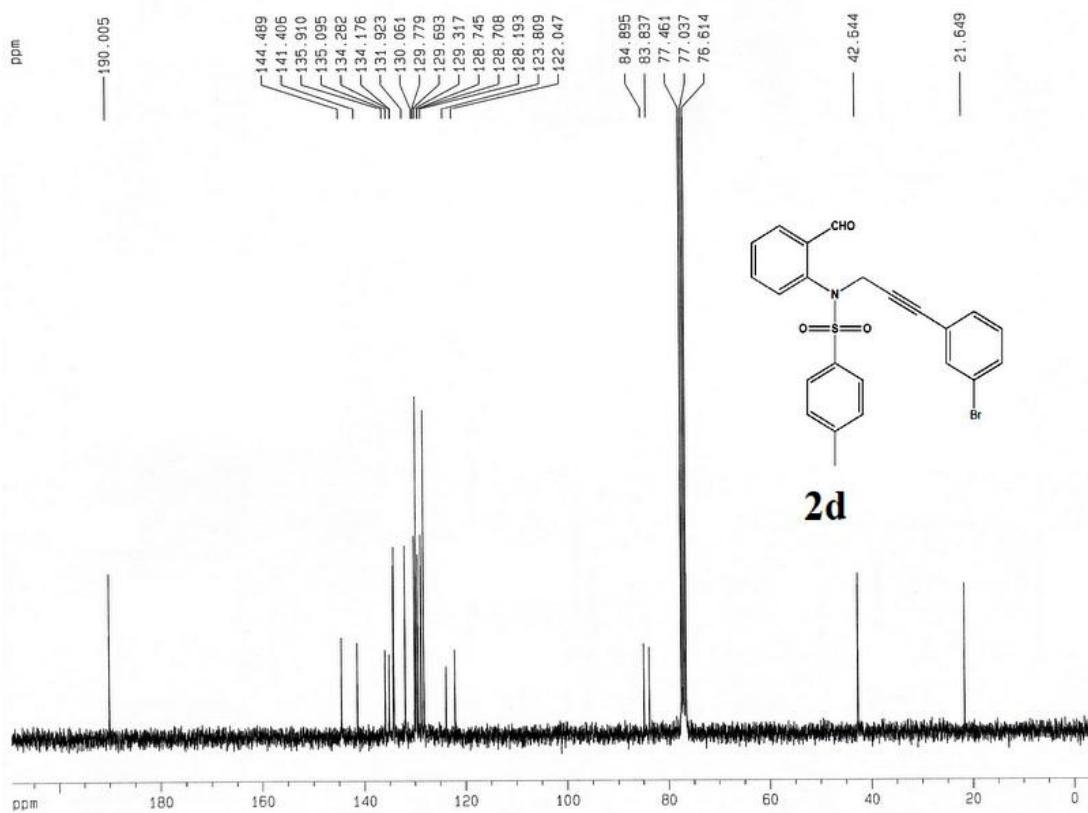
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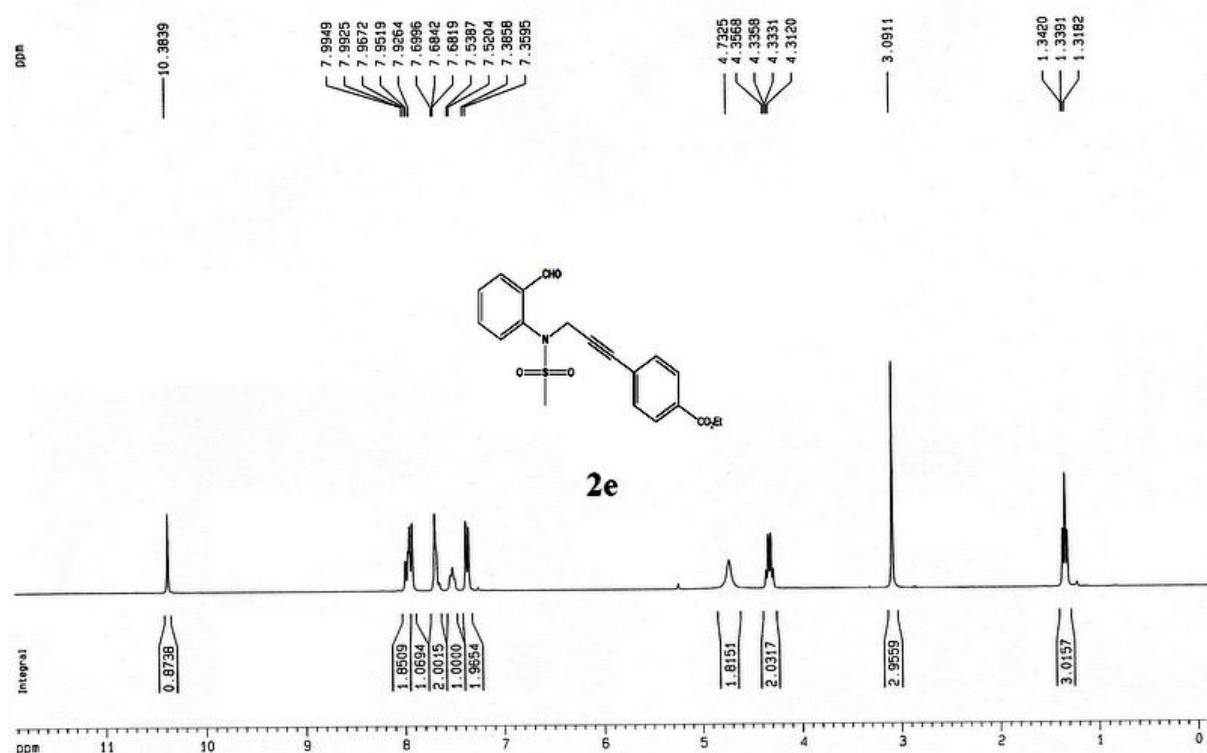
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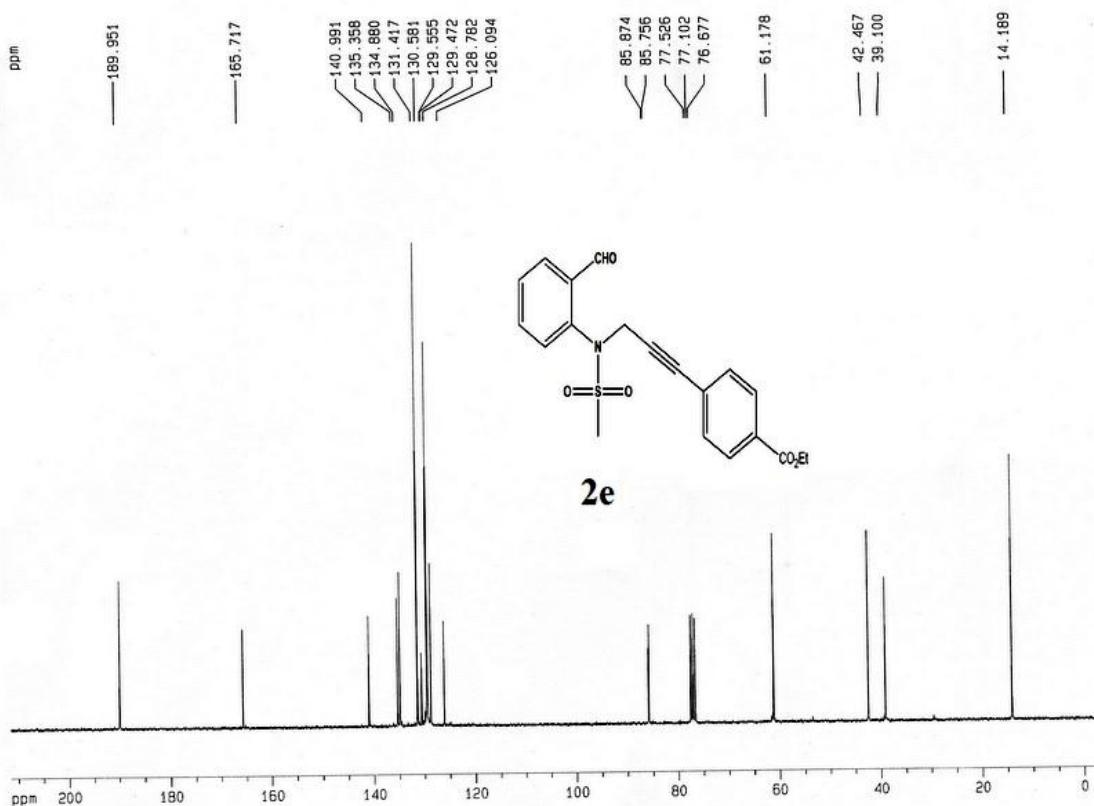
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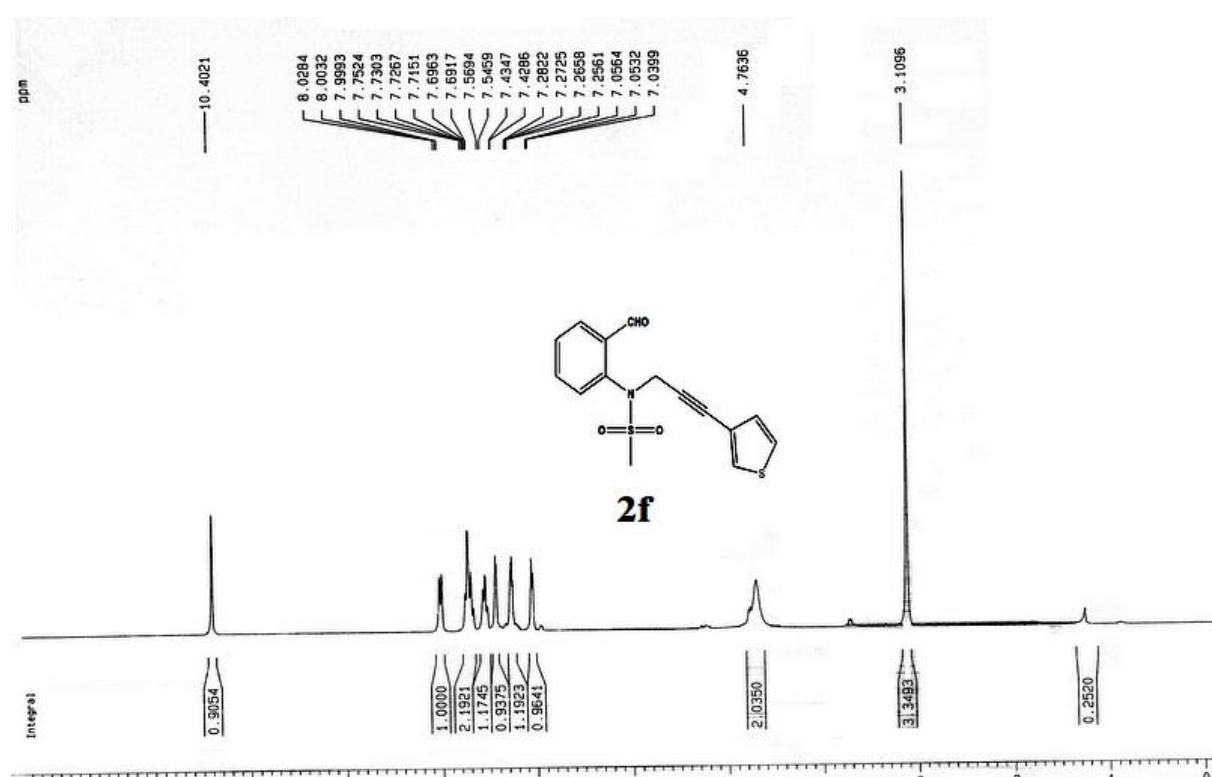
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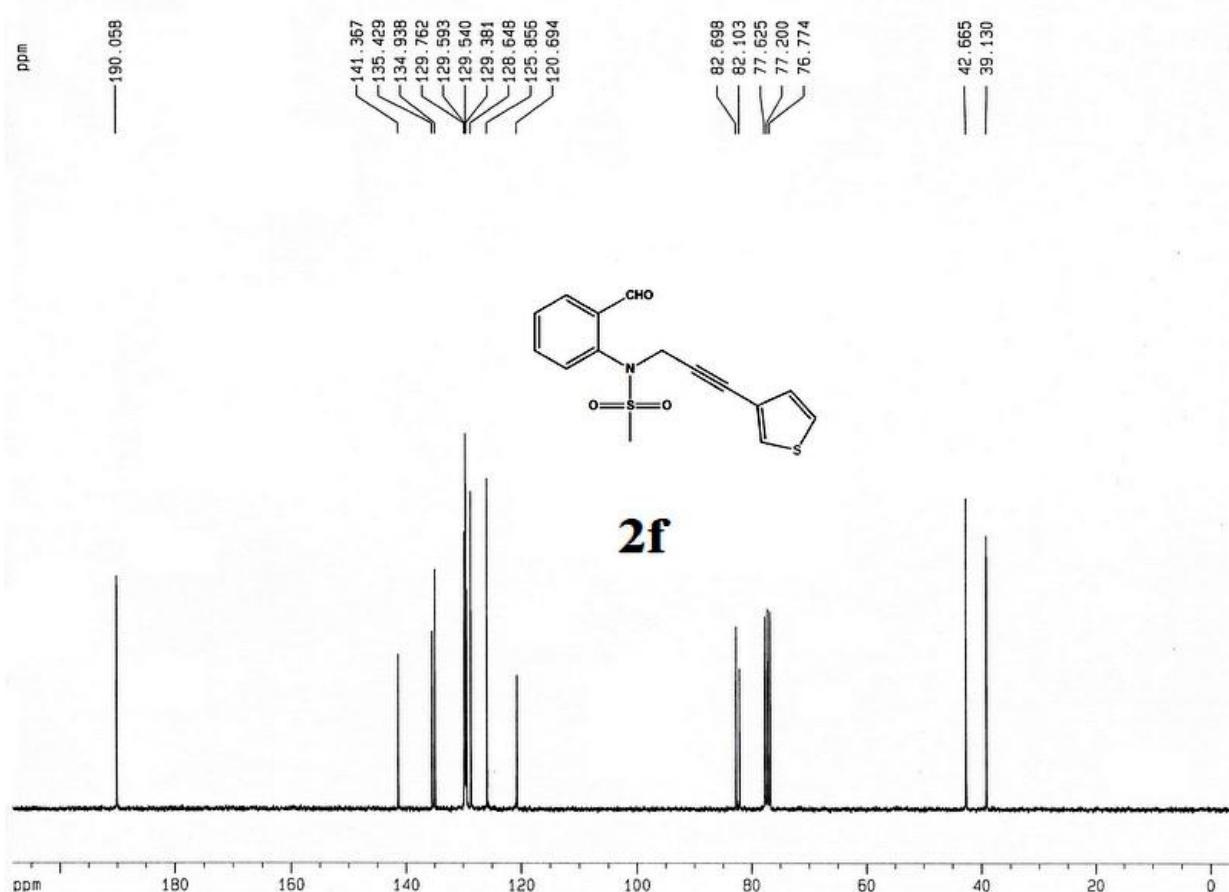
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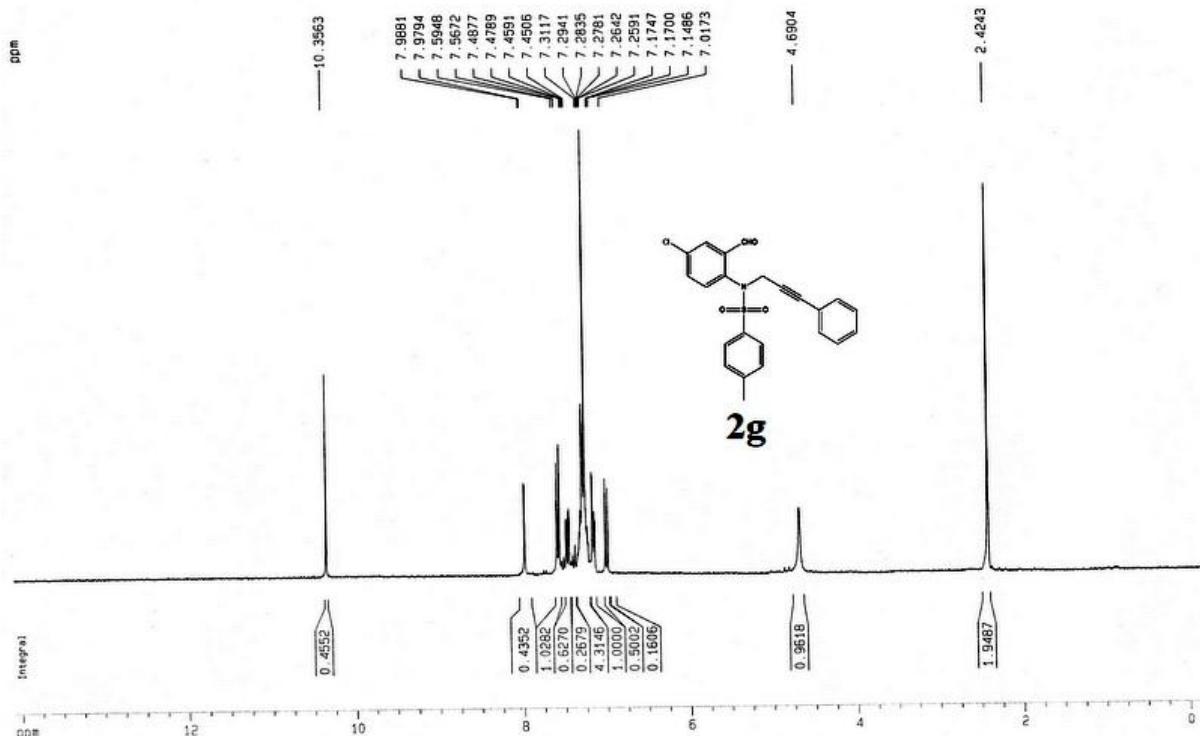
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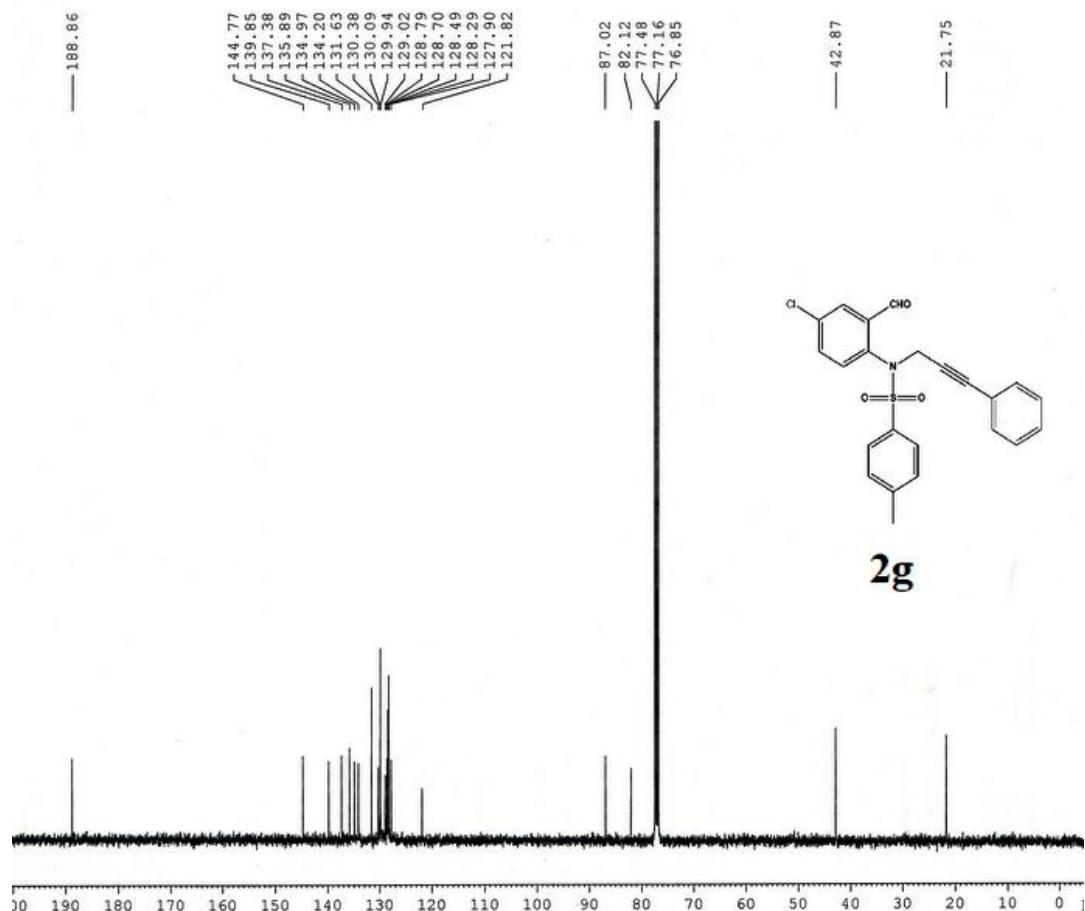
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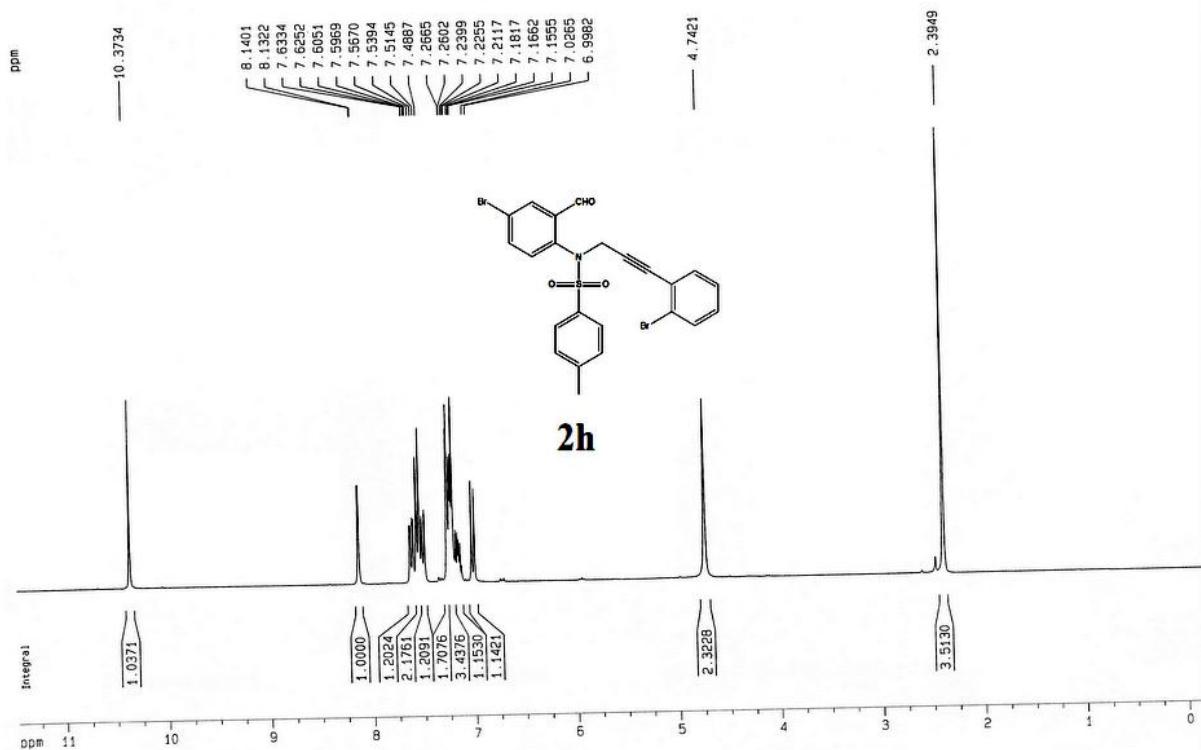
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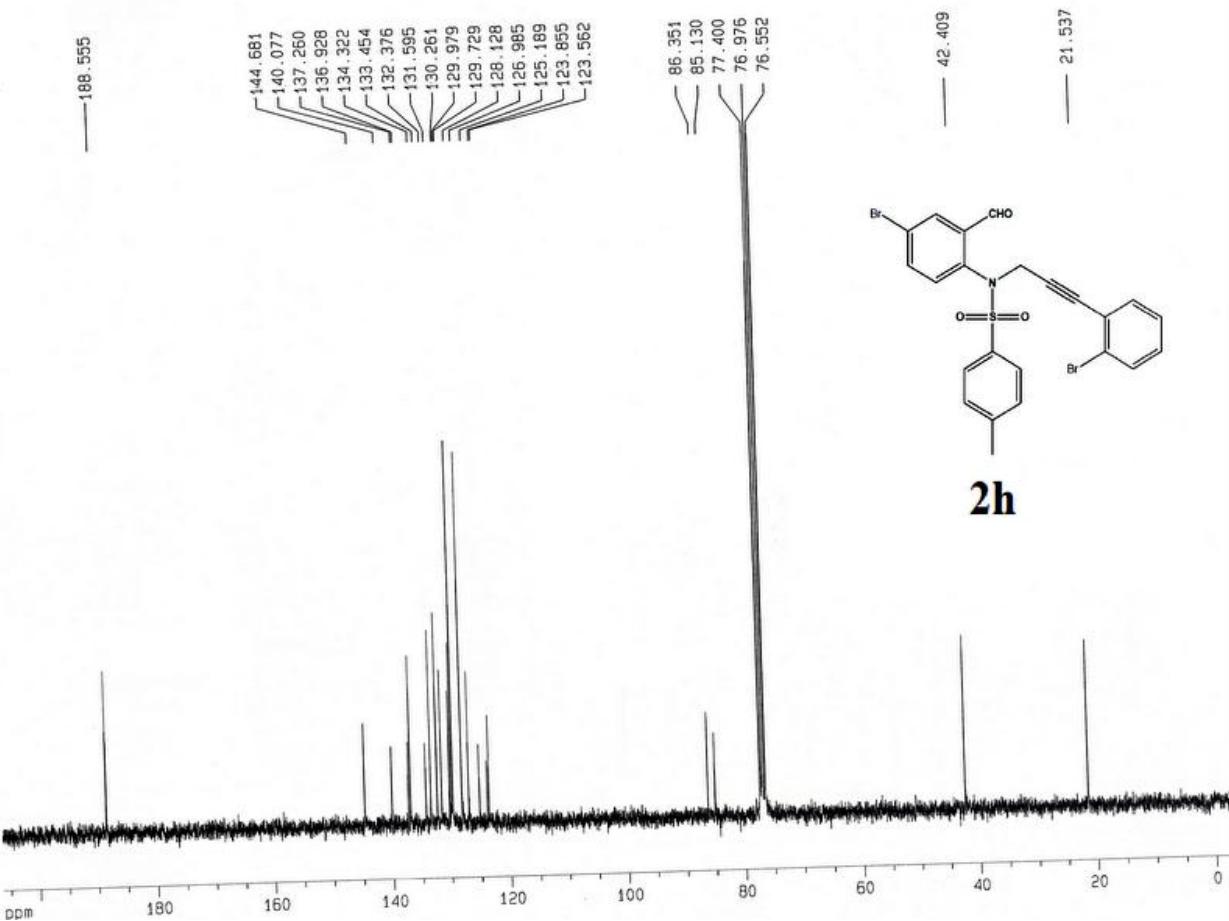
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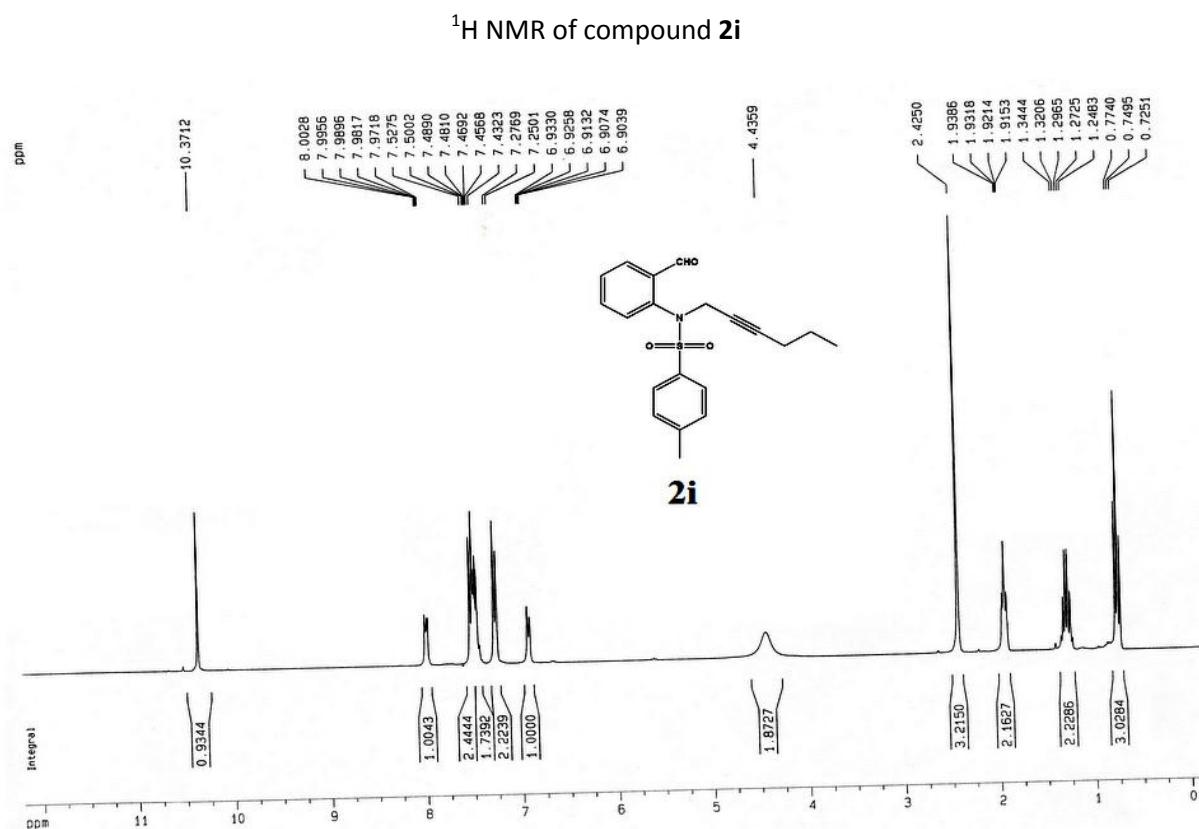


¹H NMR of compound **2h**

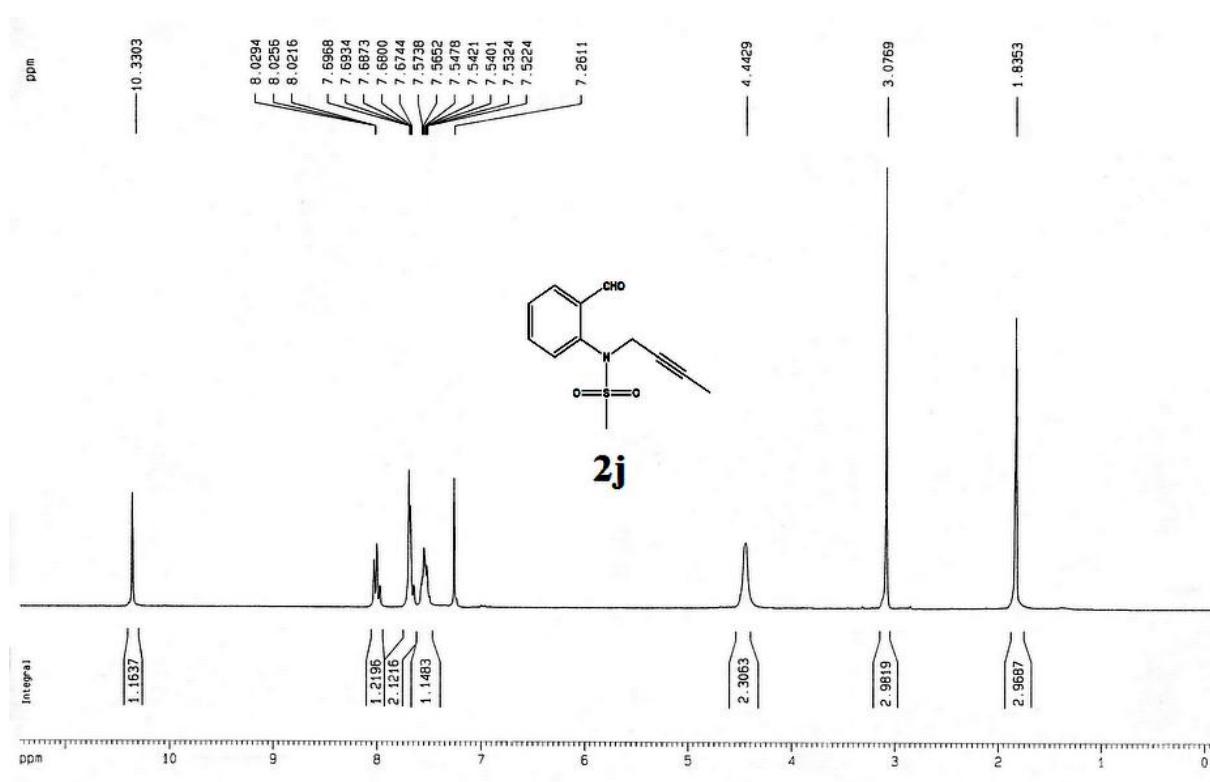


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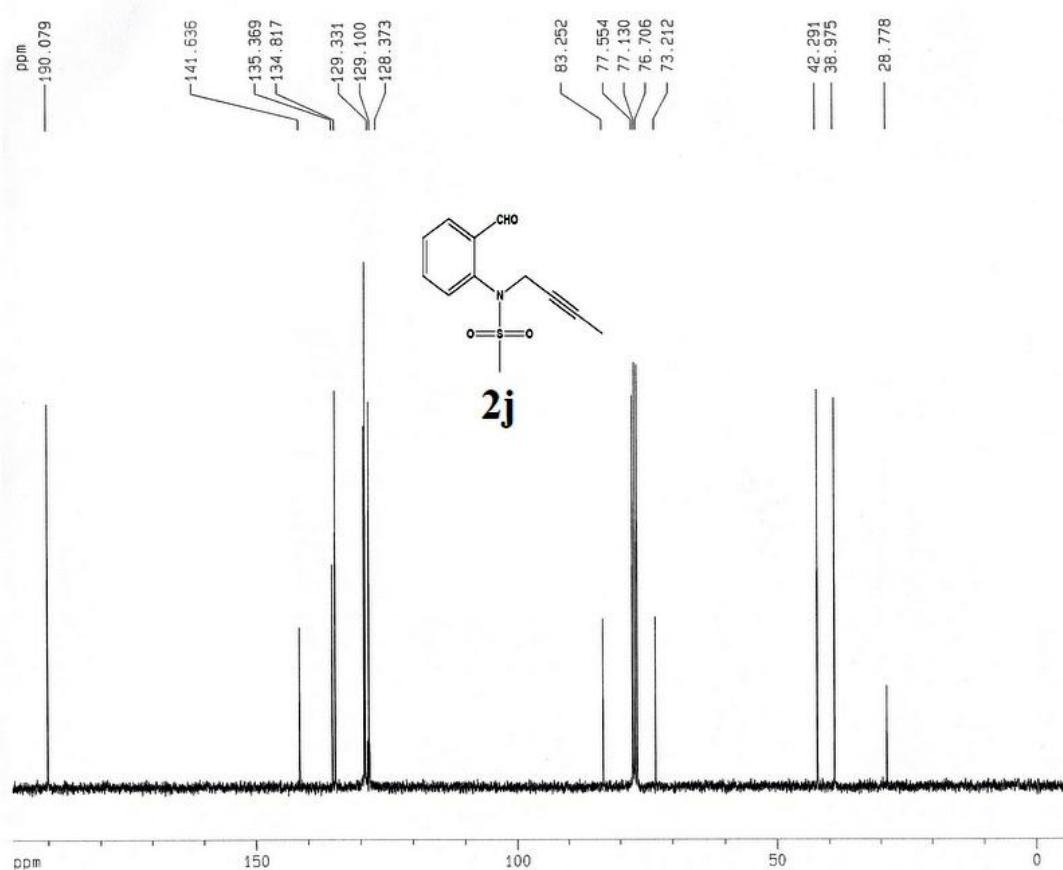




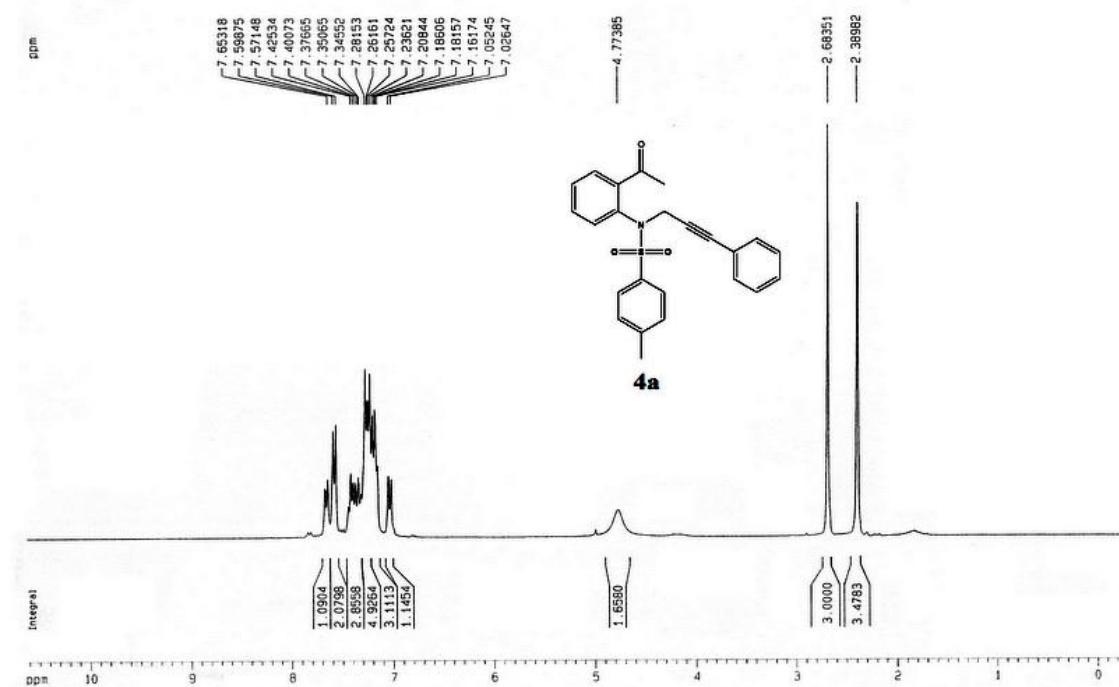
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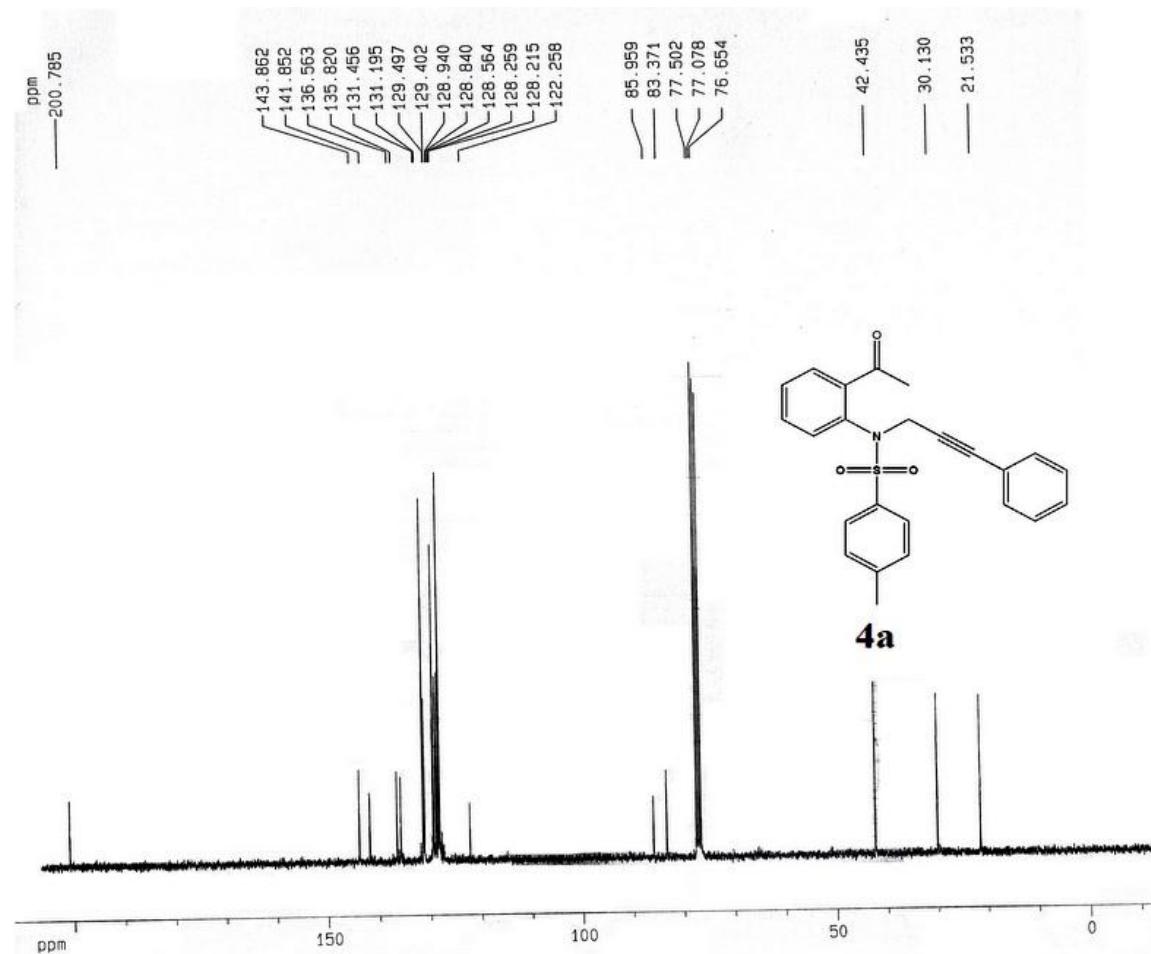
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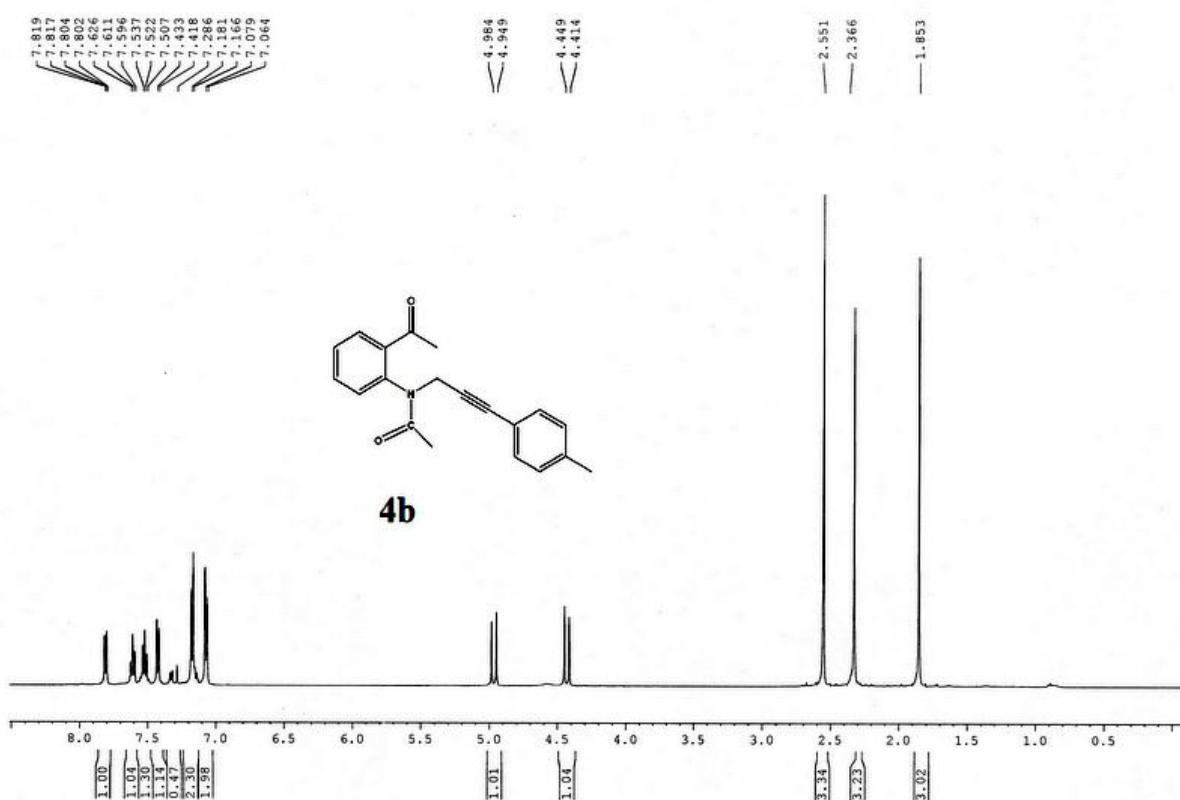
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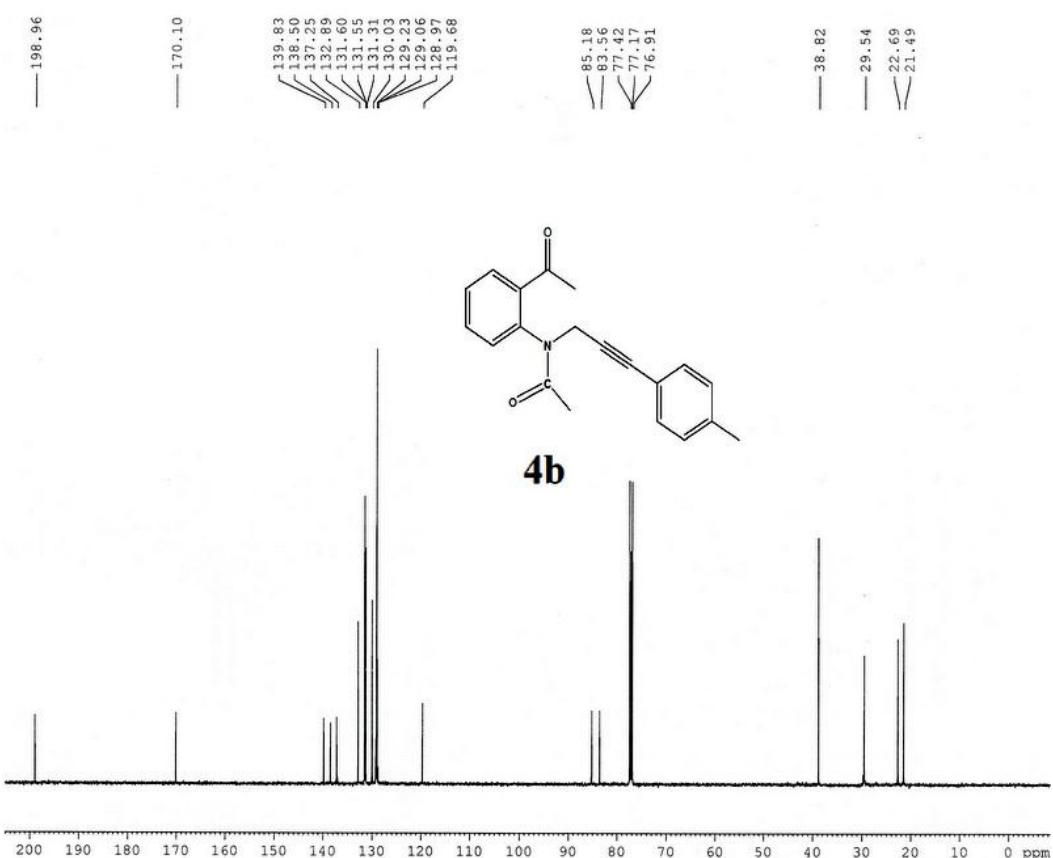
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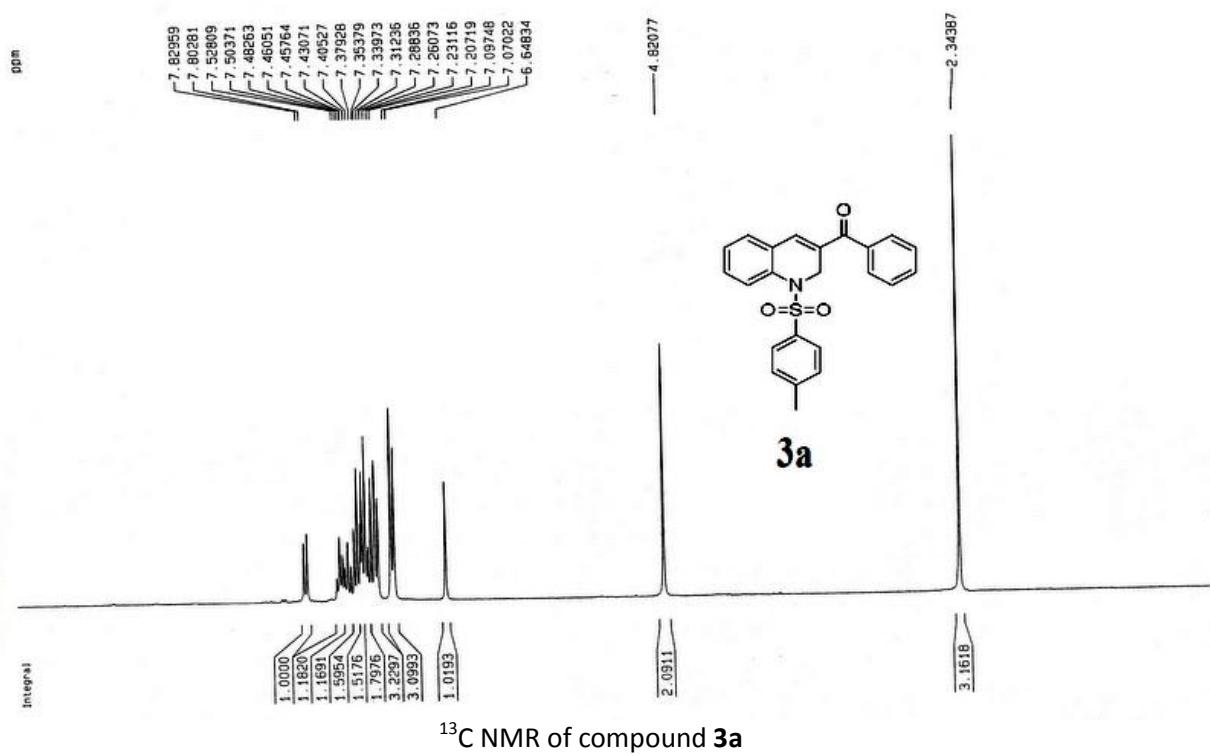
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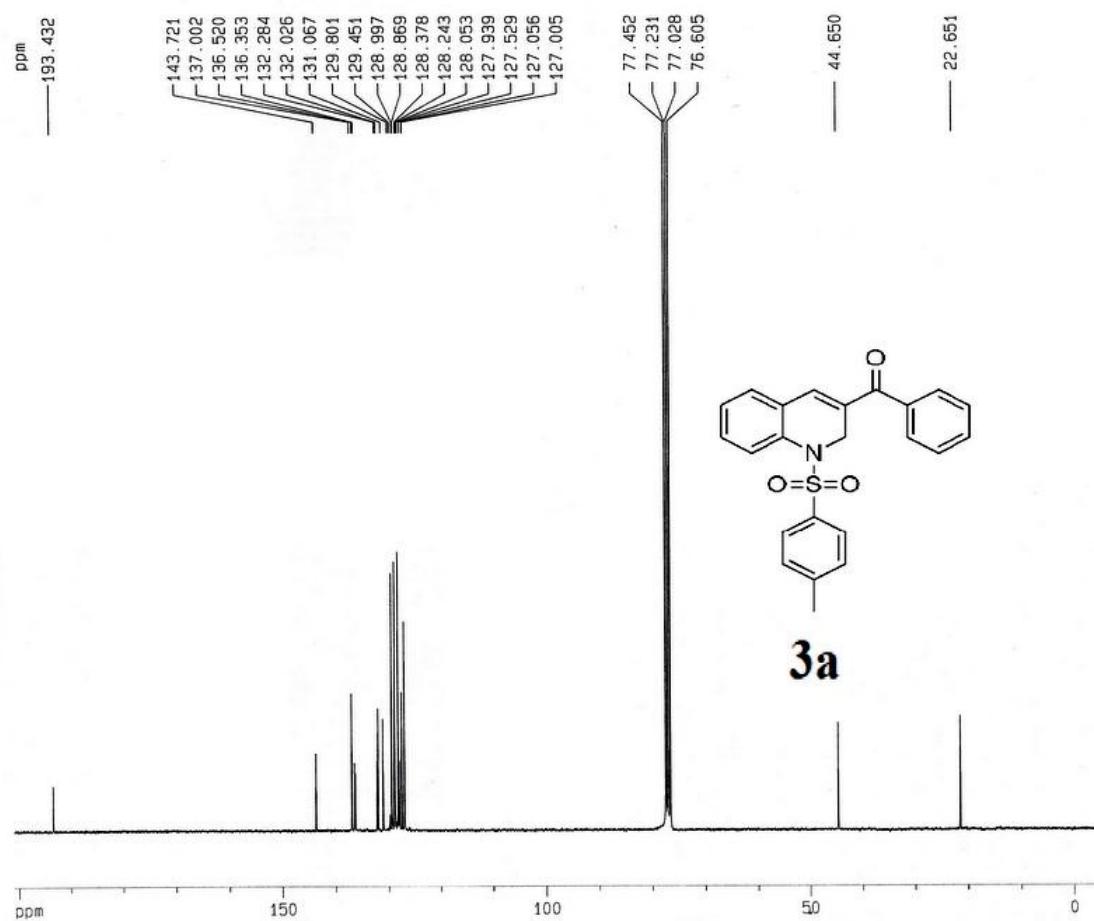
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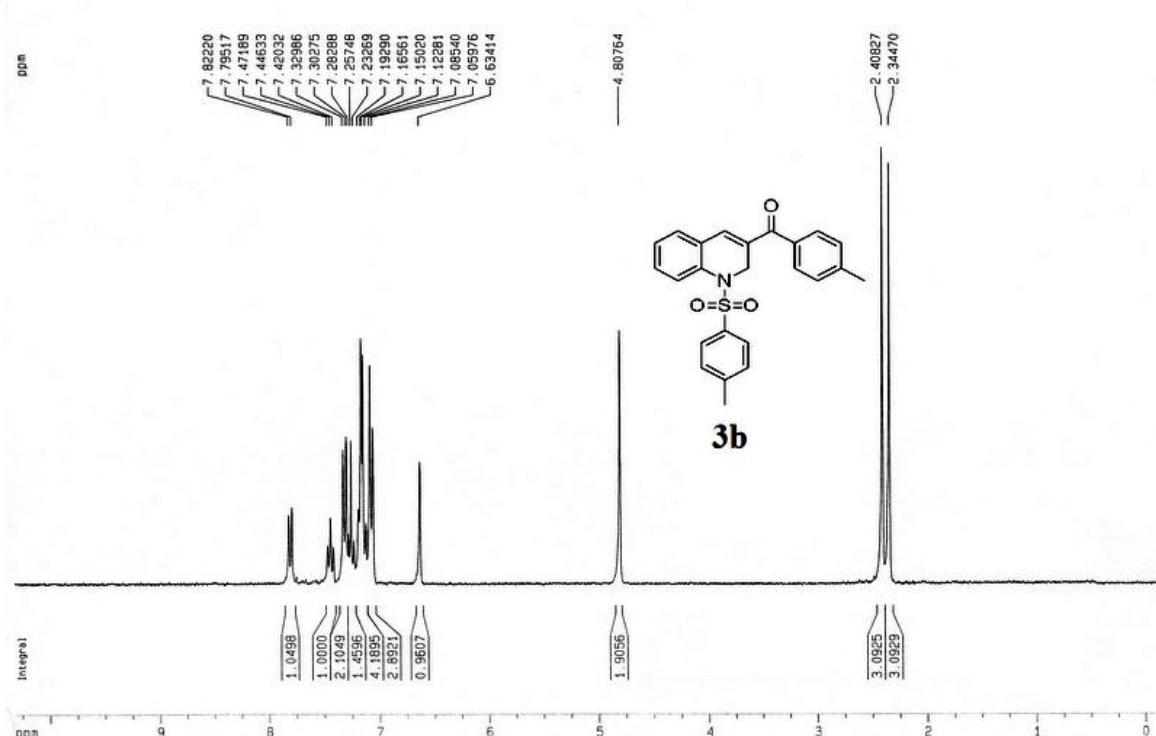
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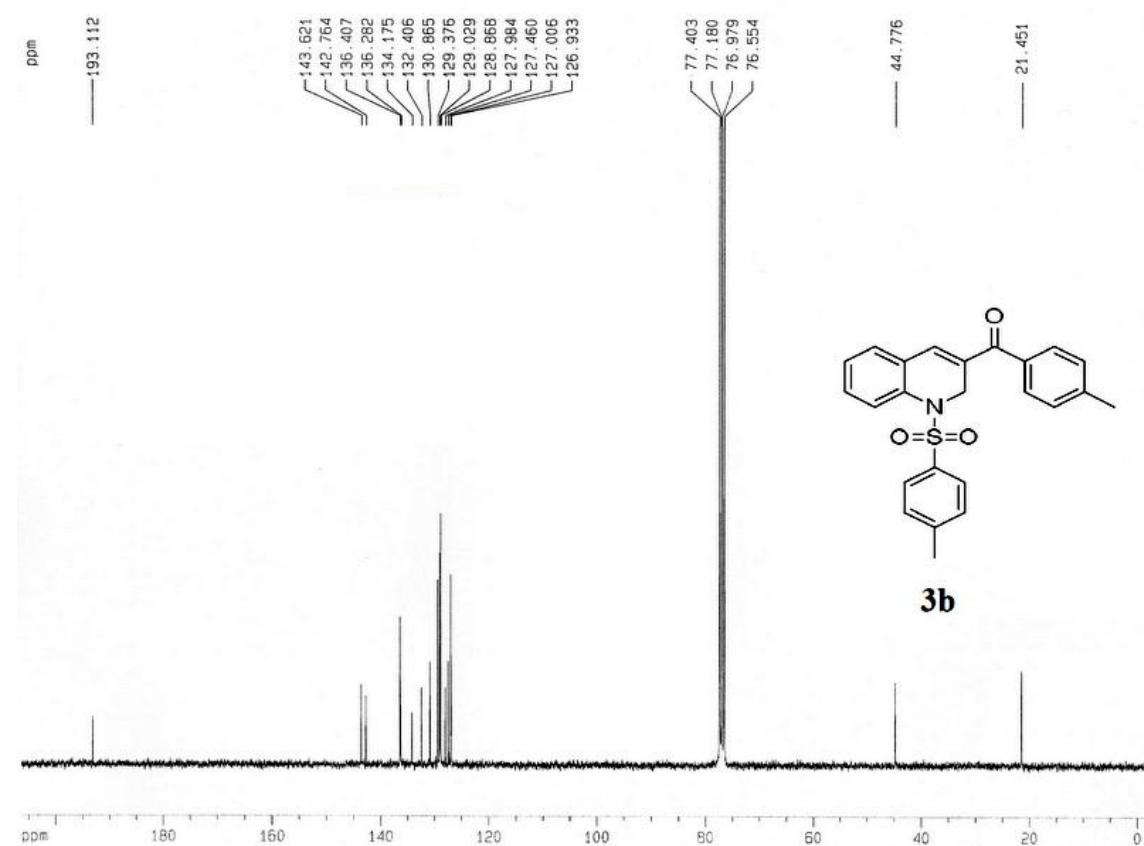
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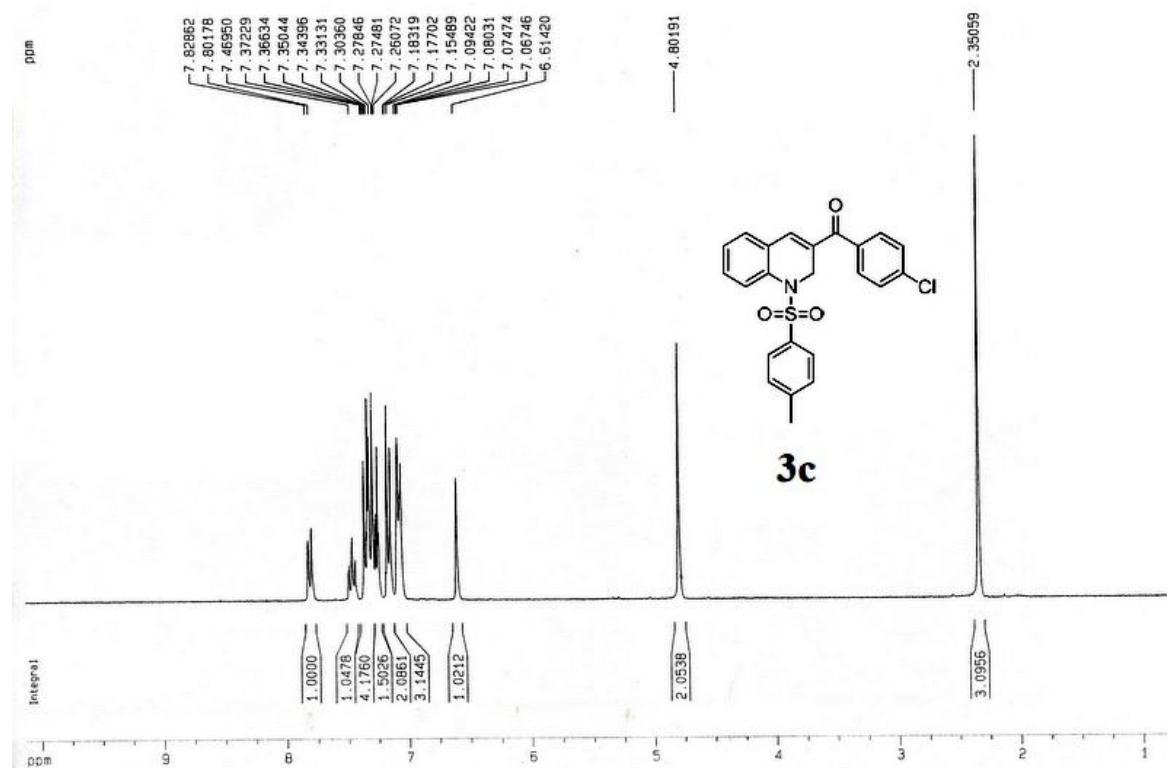
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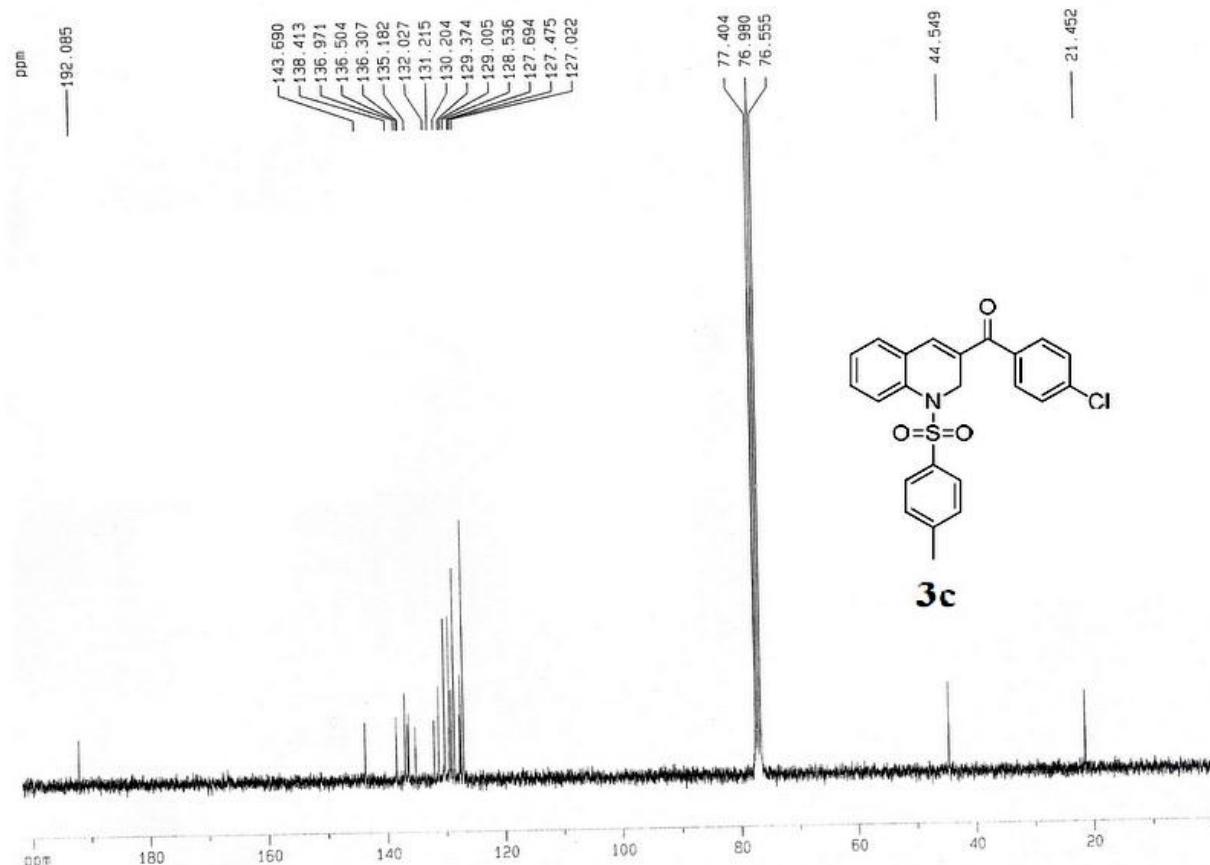
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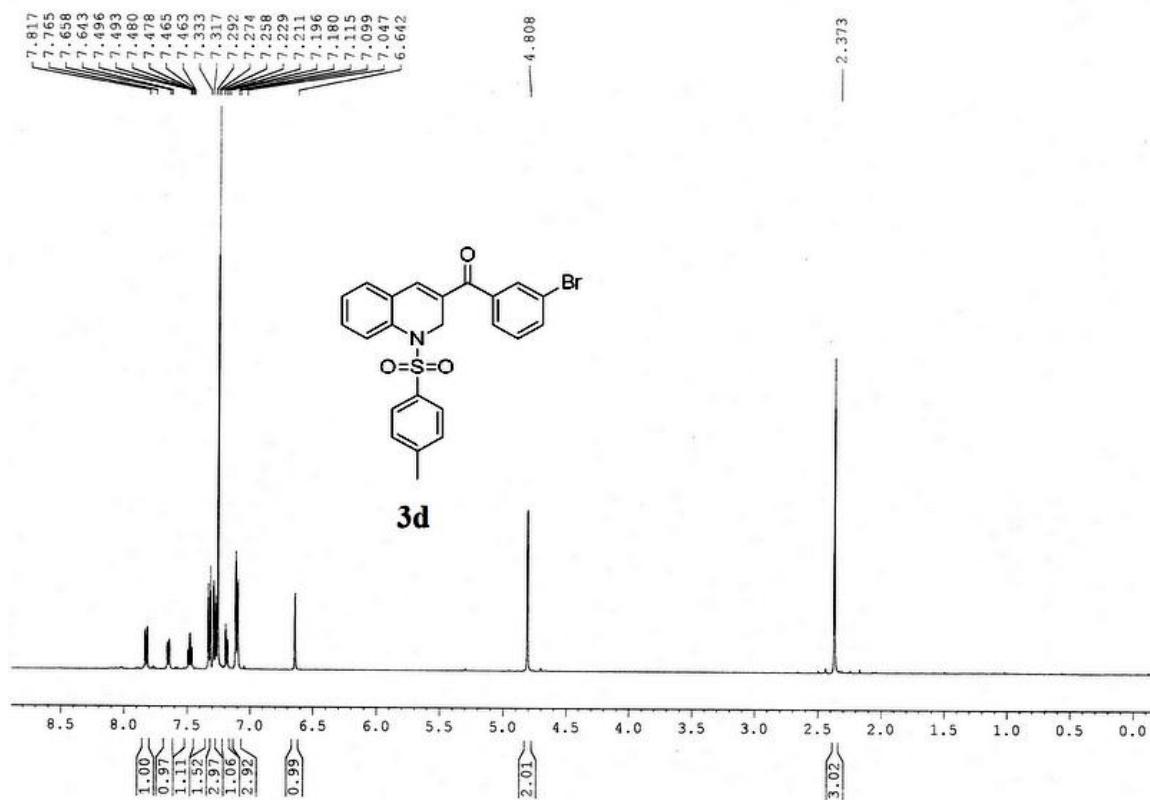
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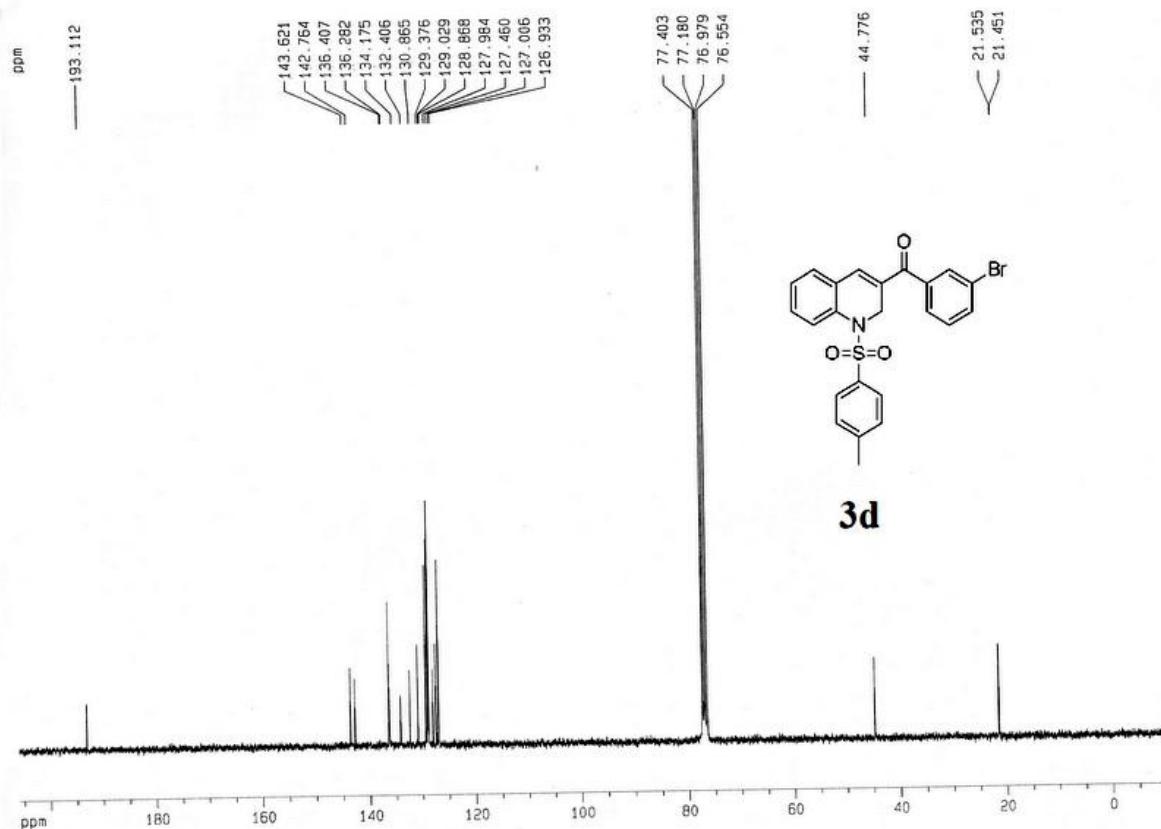
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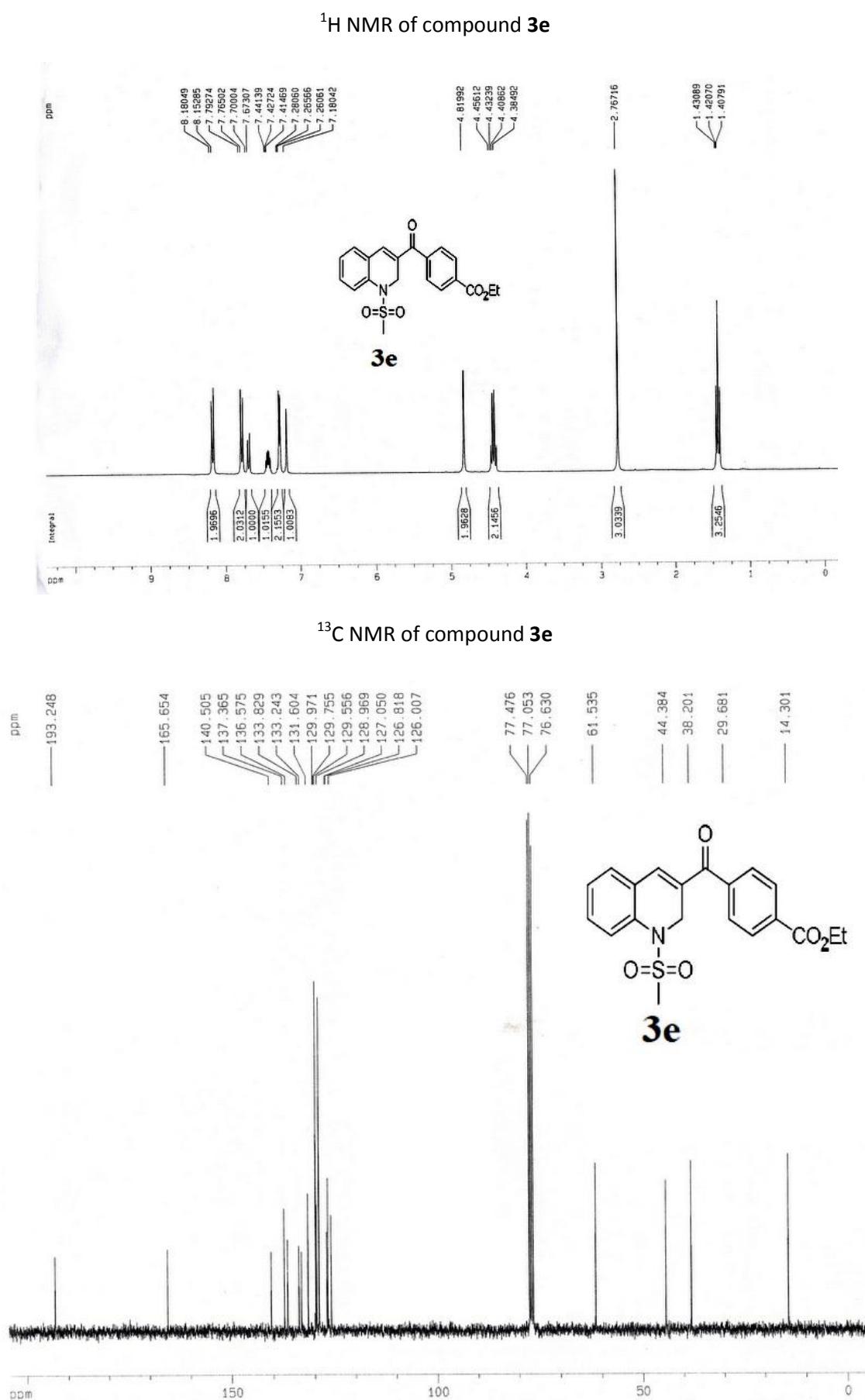


¹H NMR of compound 3d

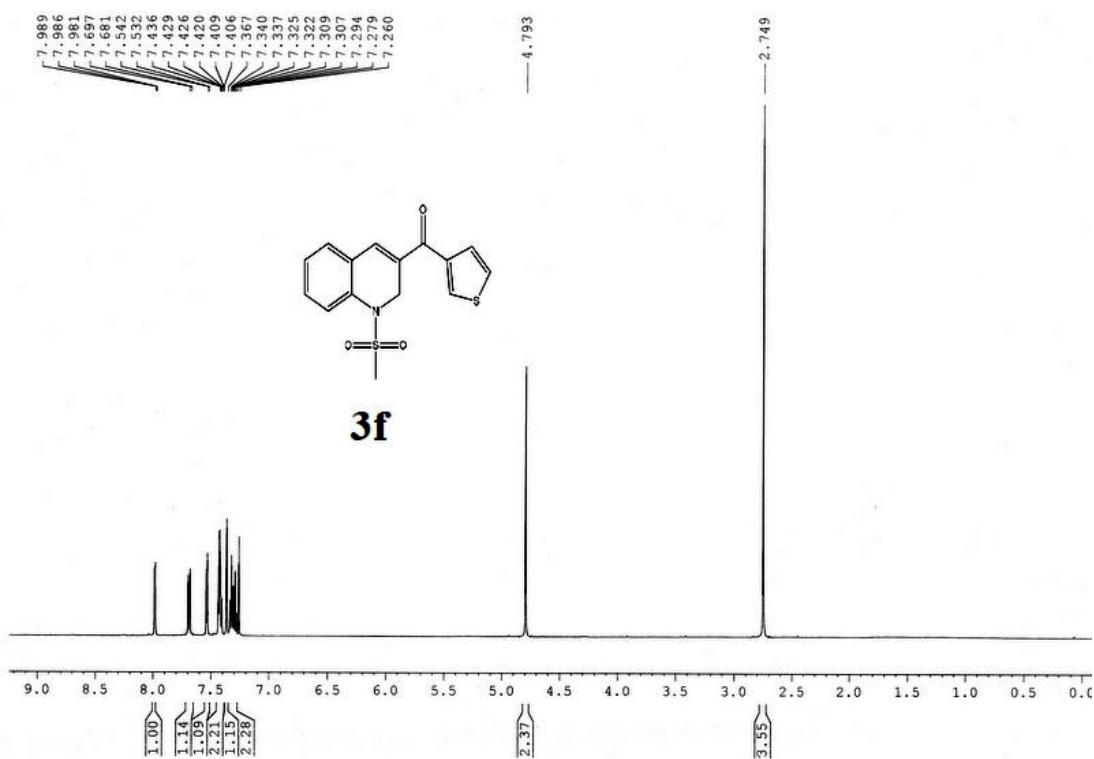


¹³C NMR of compound 3d

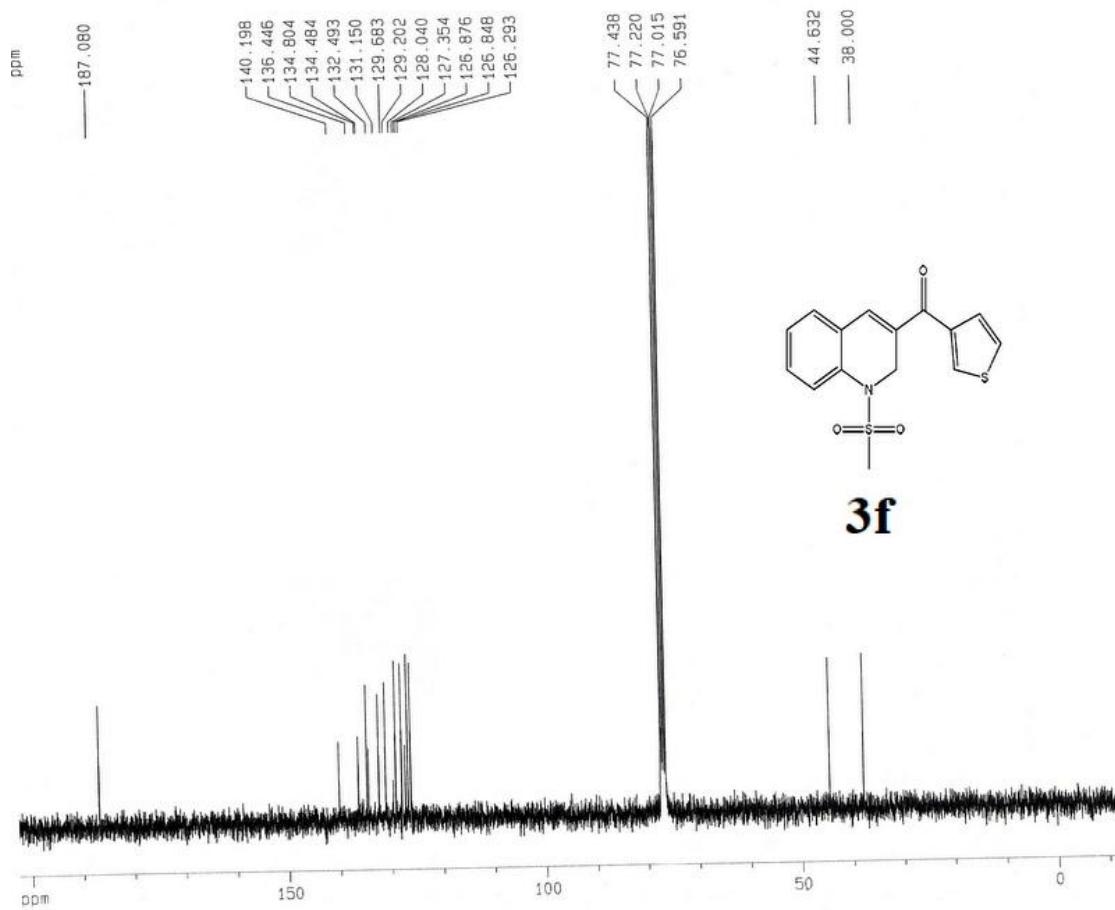




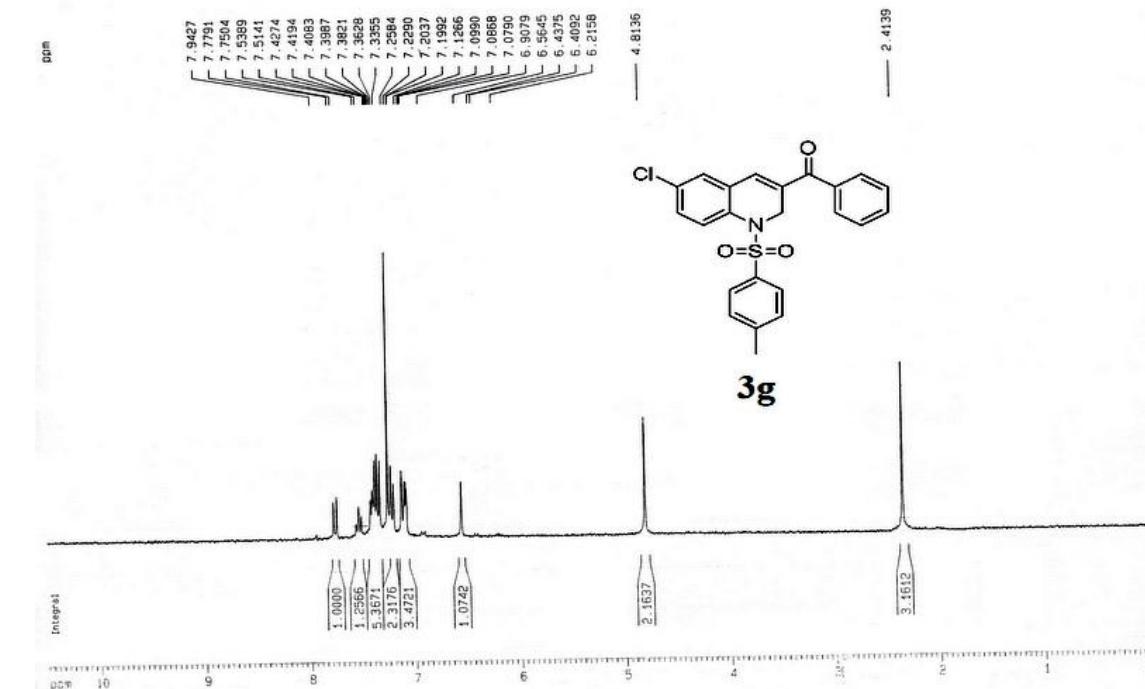
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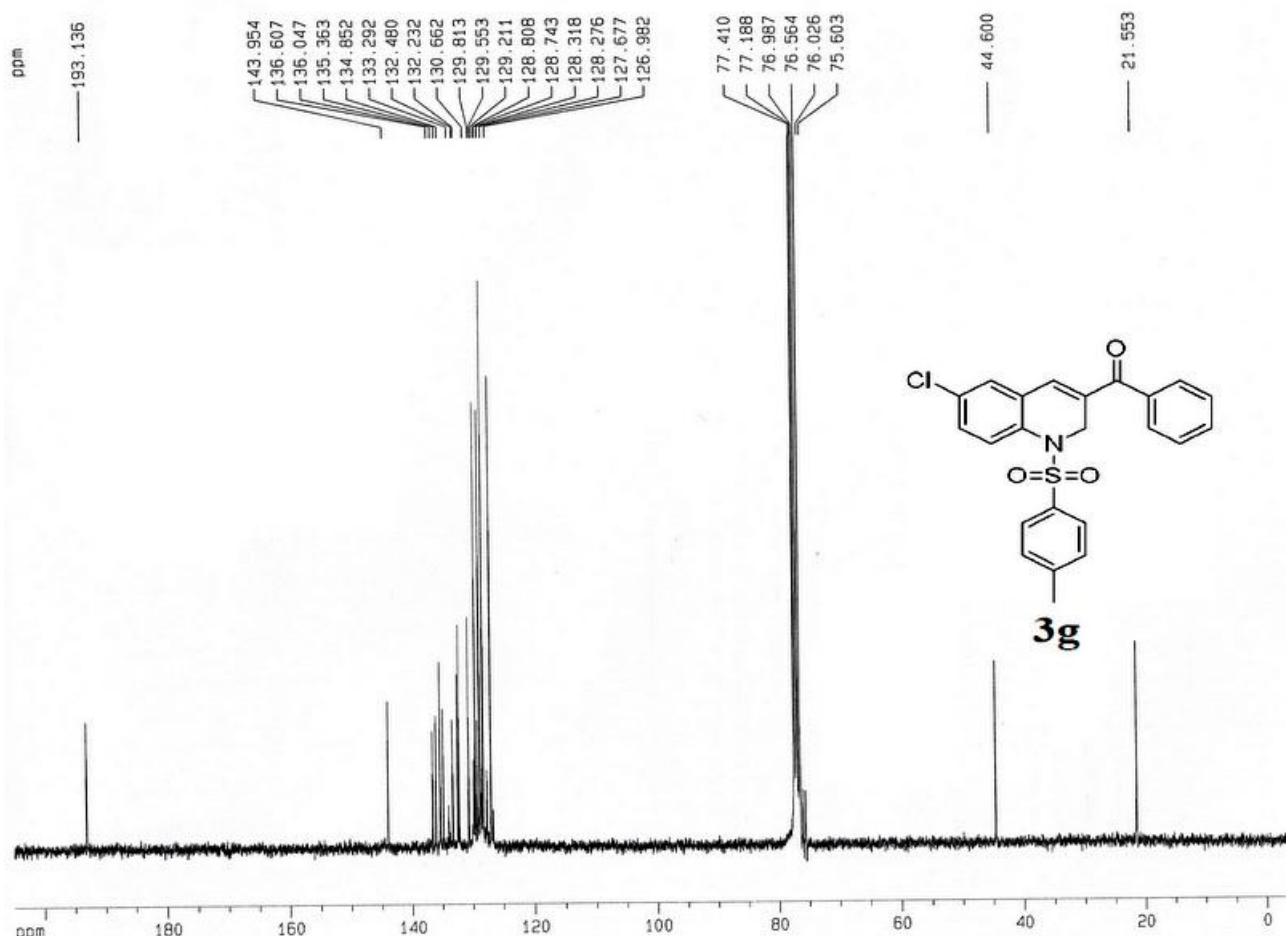
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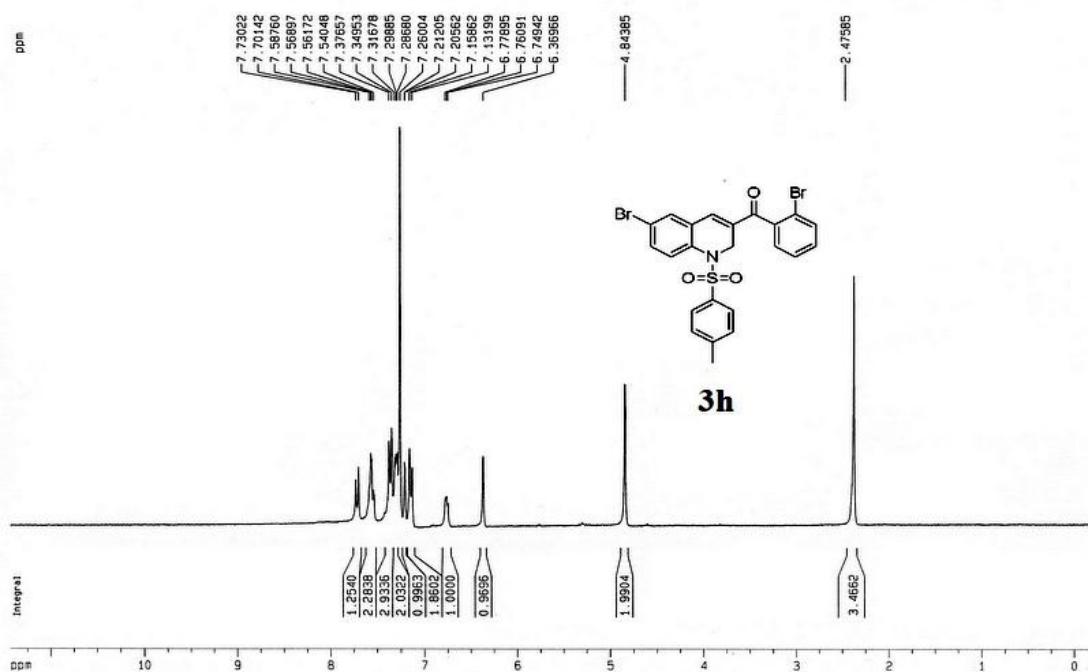
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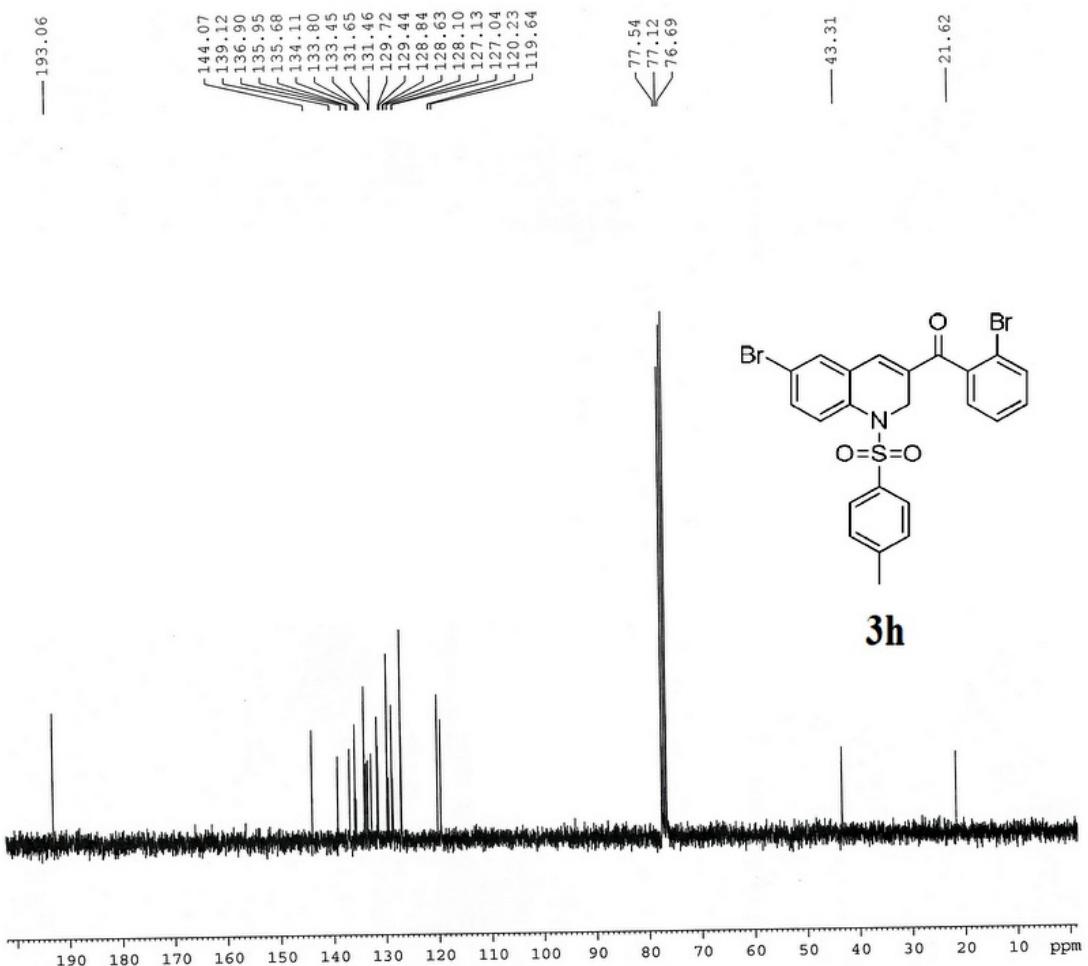
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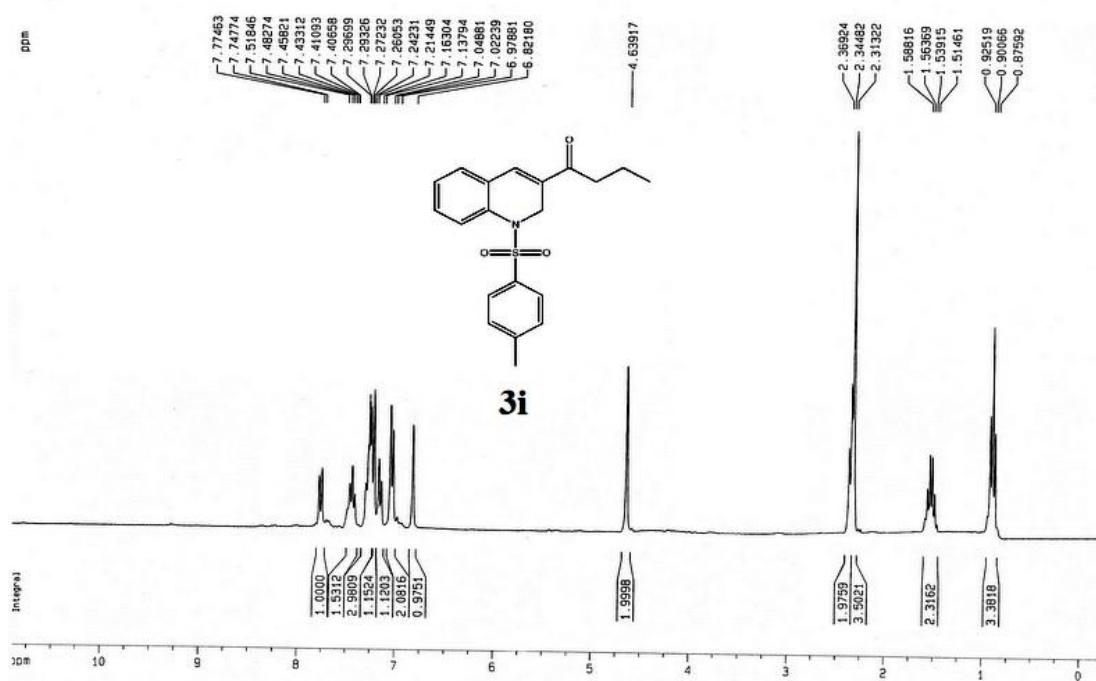
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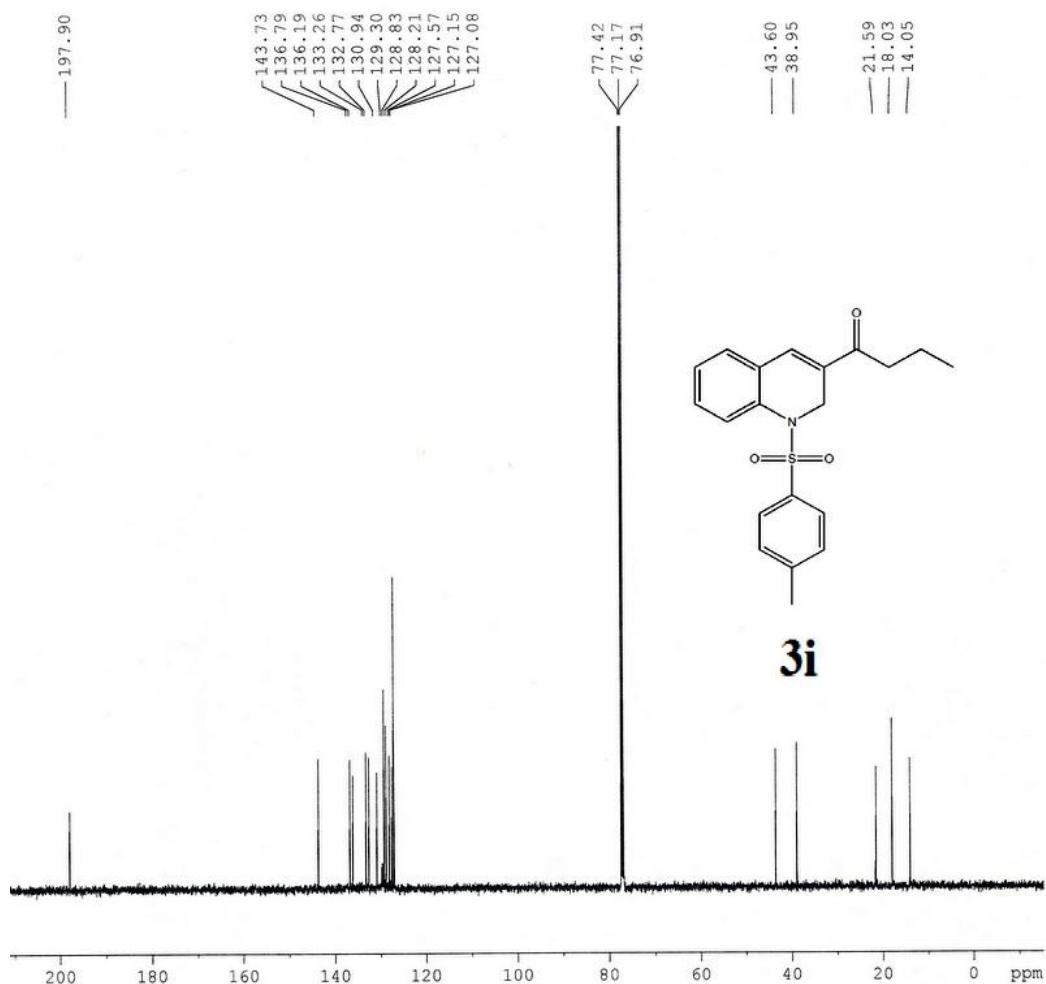
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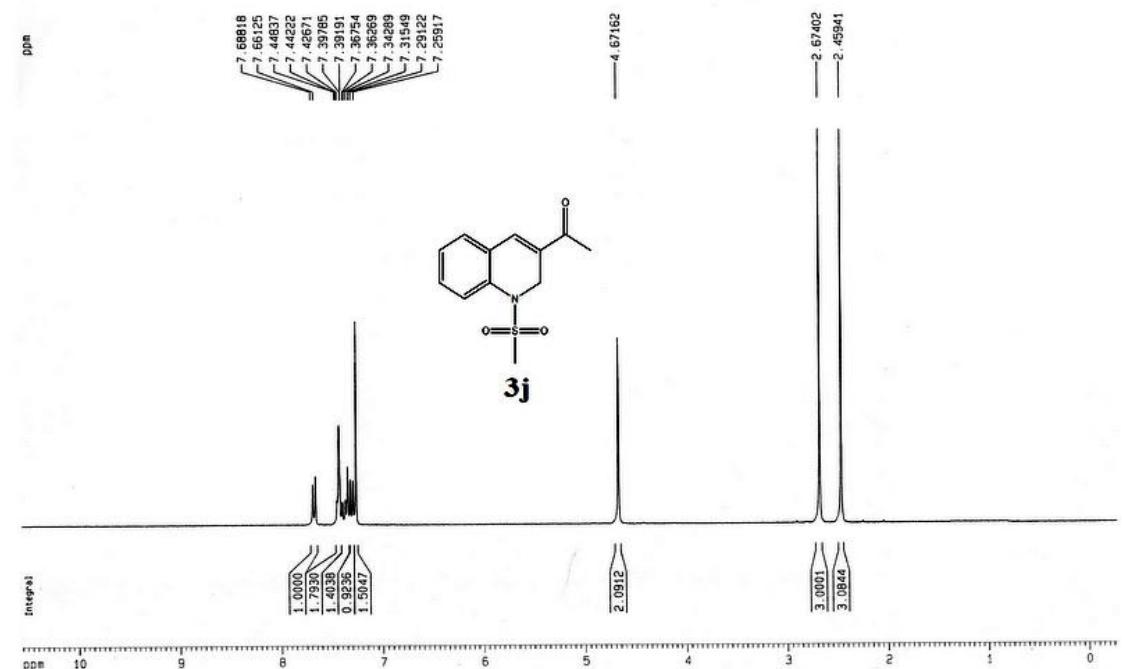
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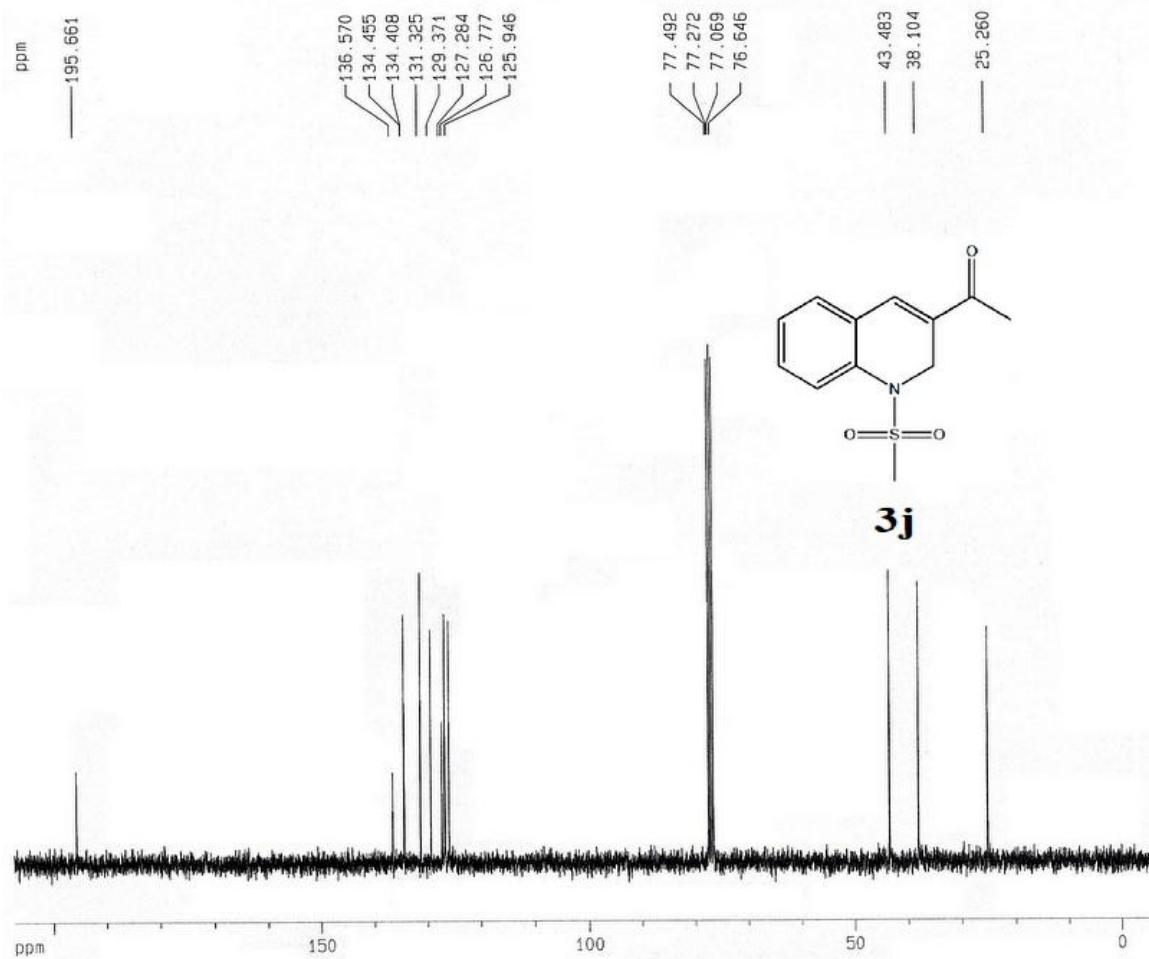
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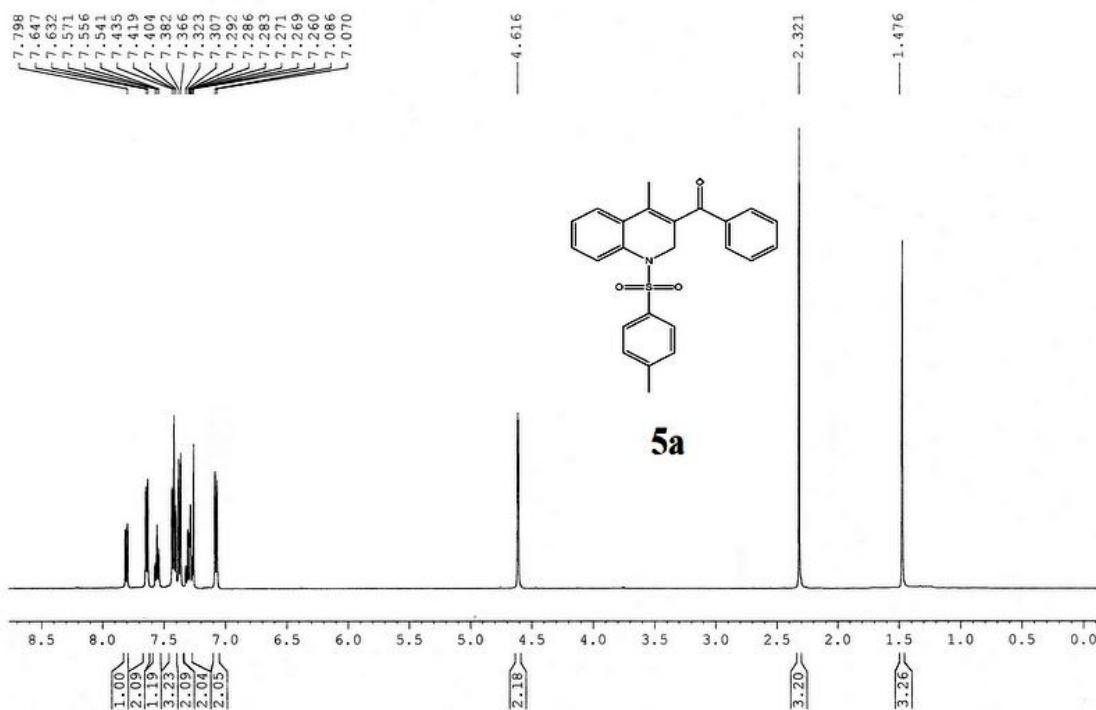
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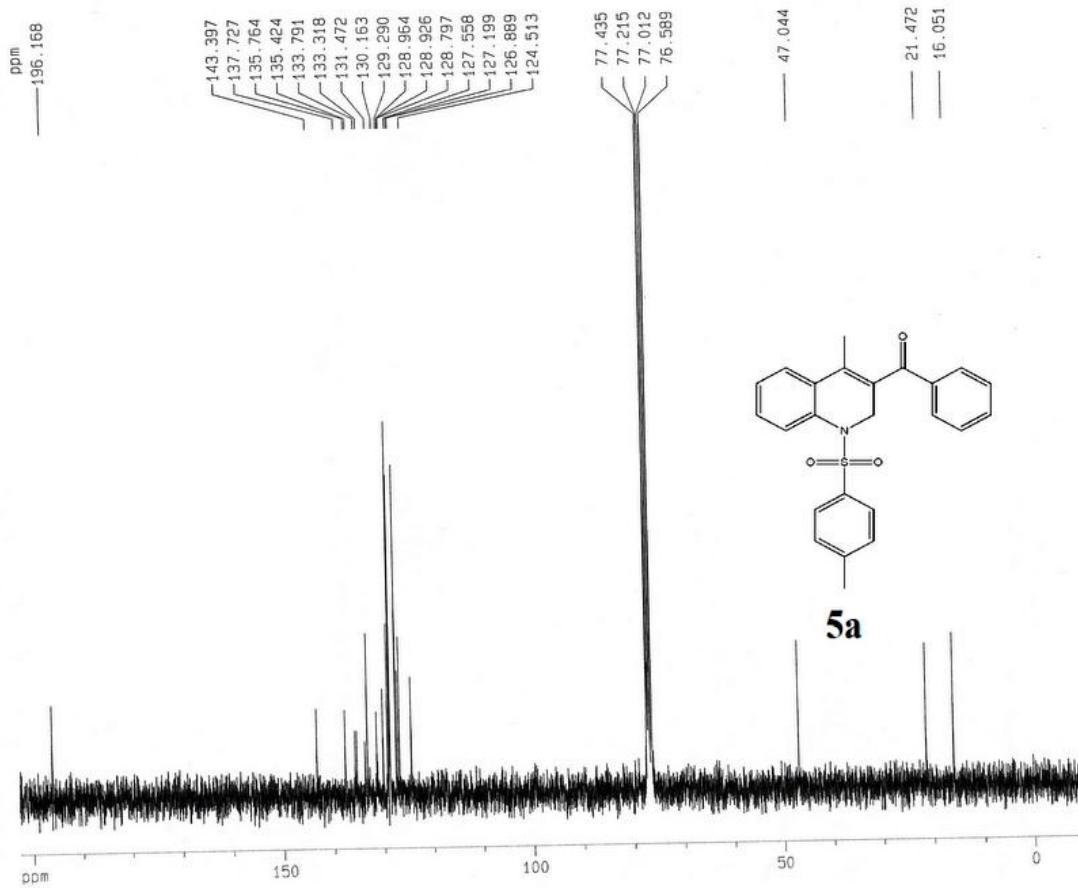
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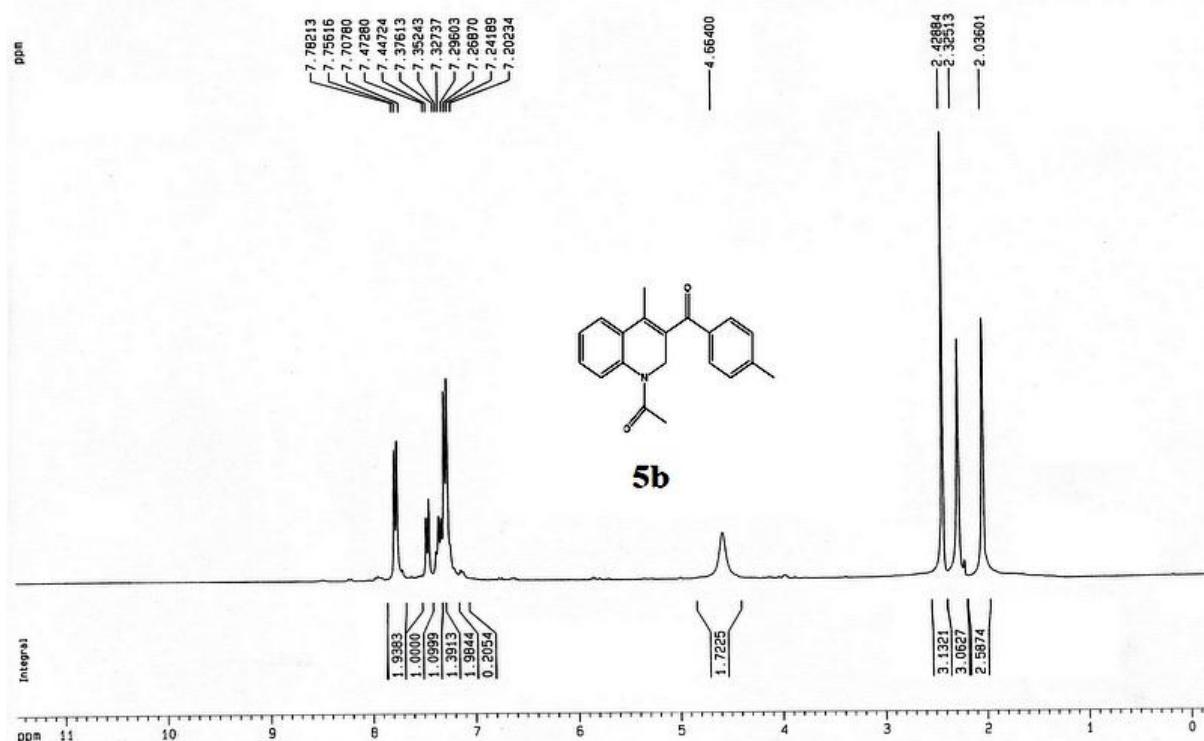
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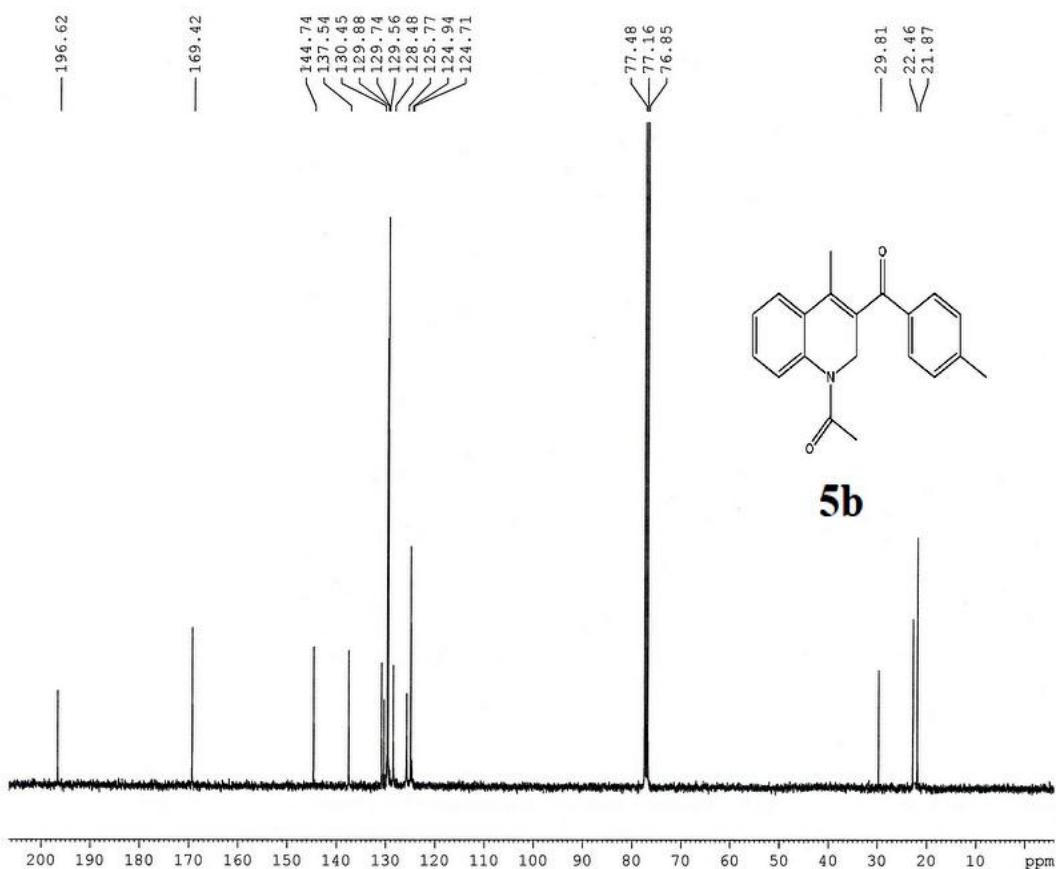
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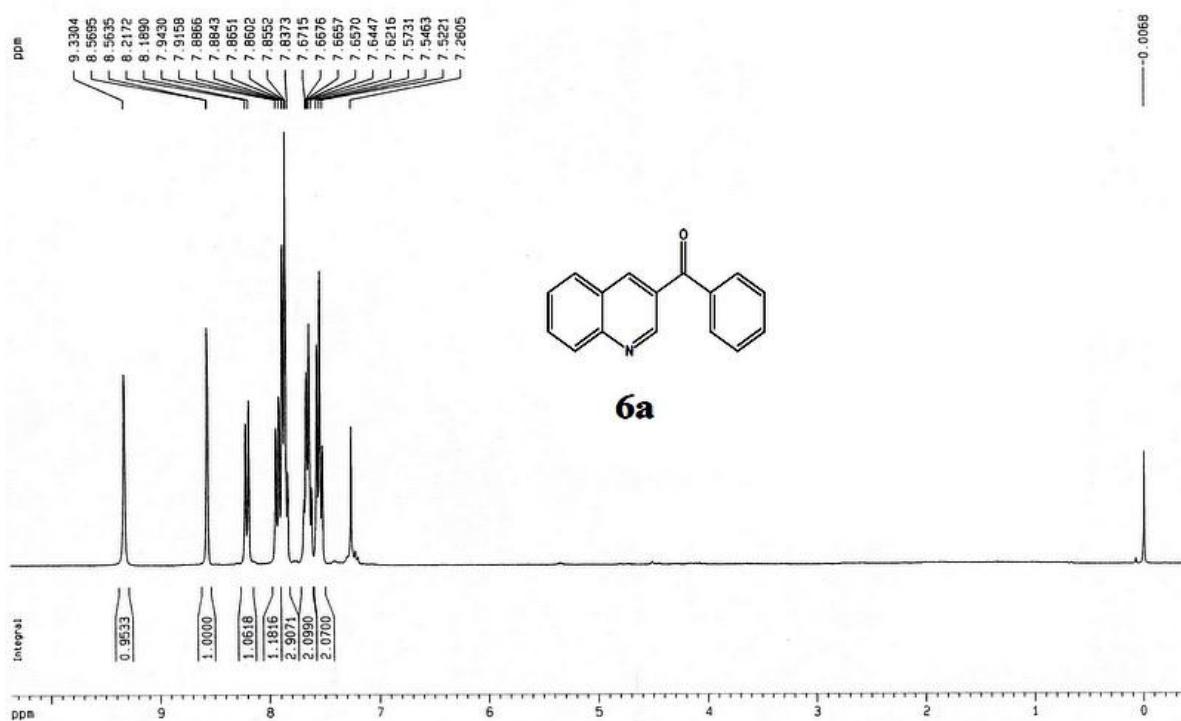
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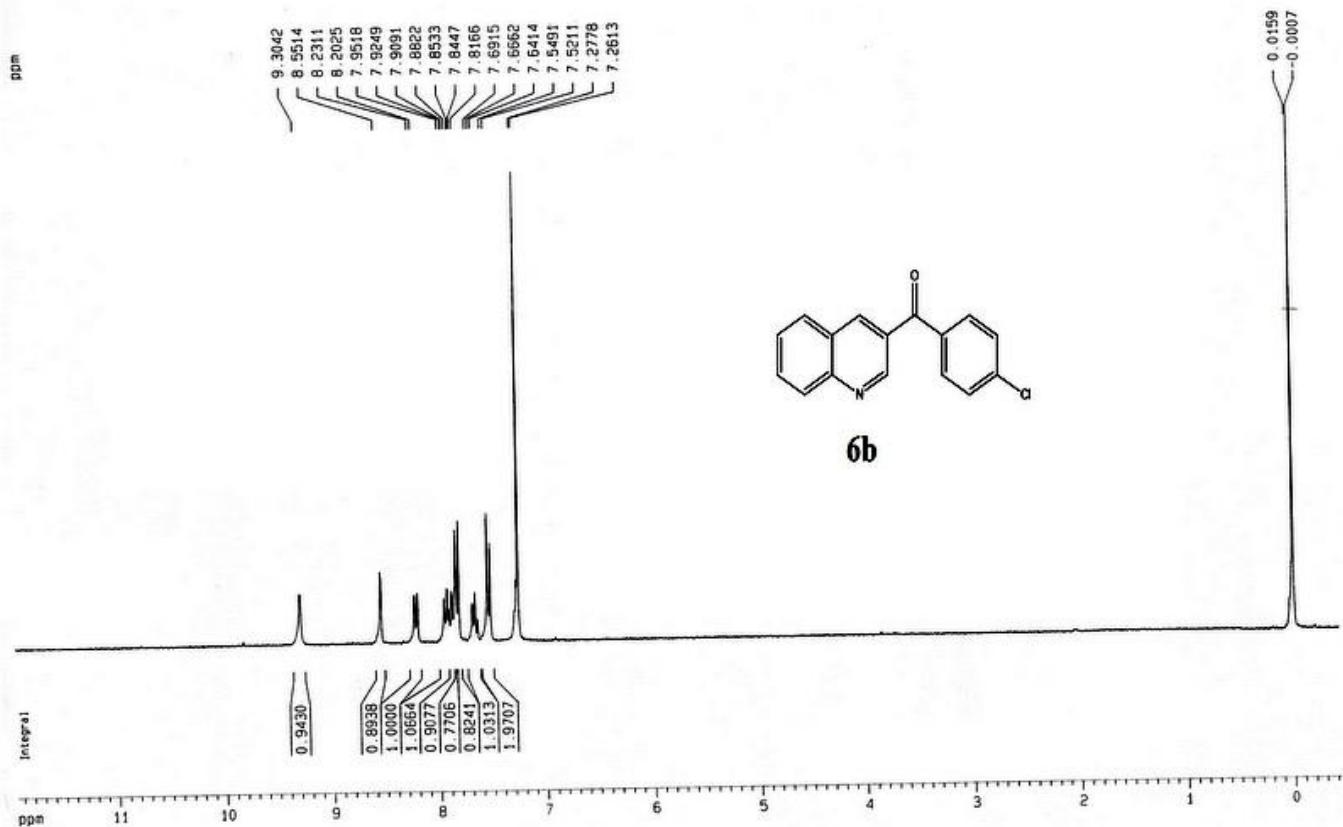
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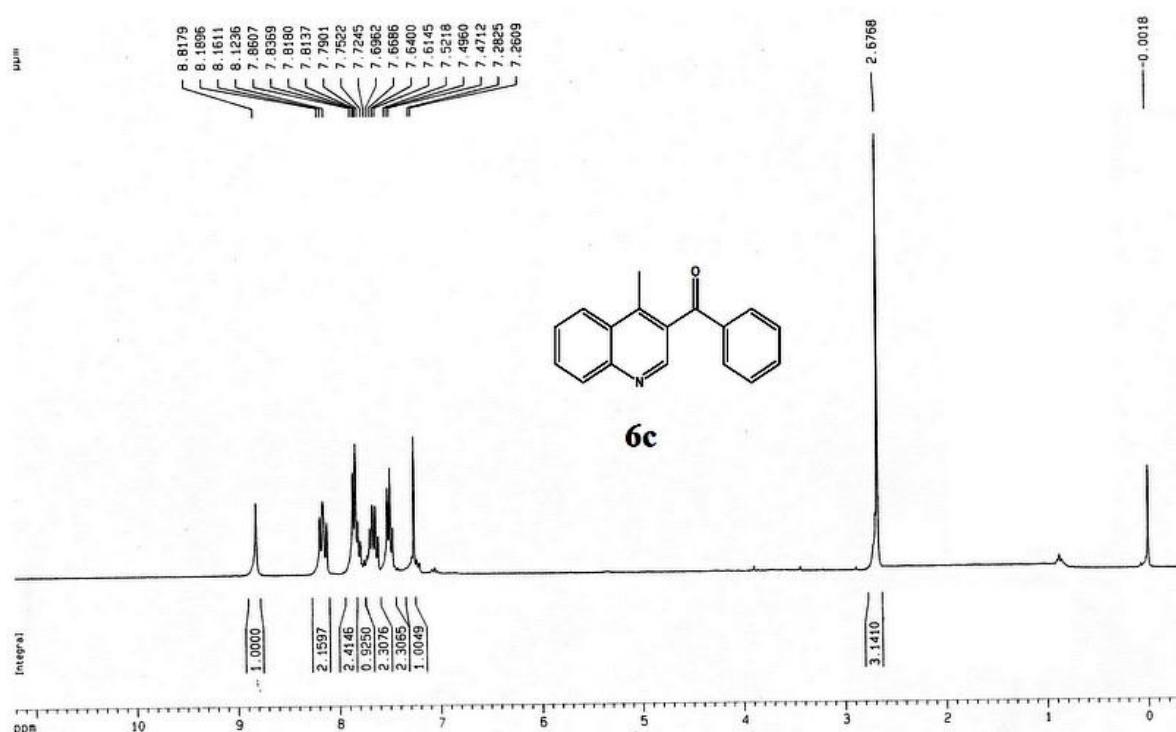
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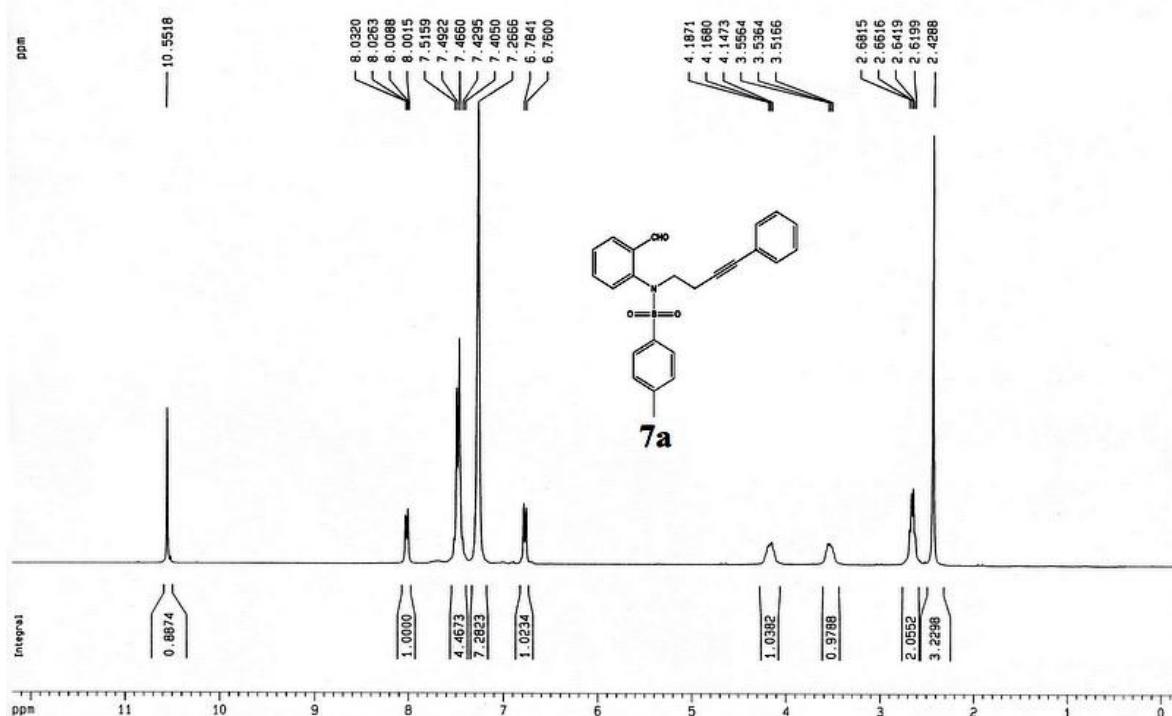
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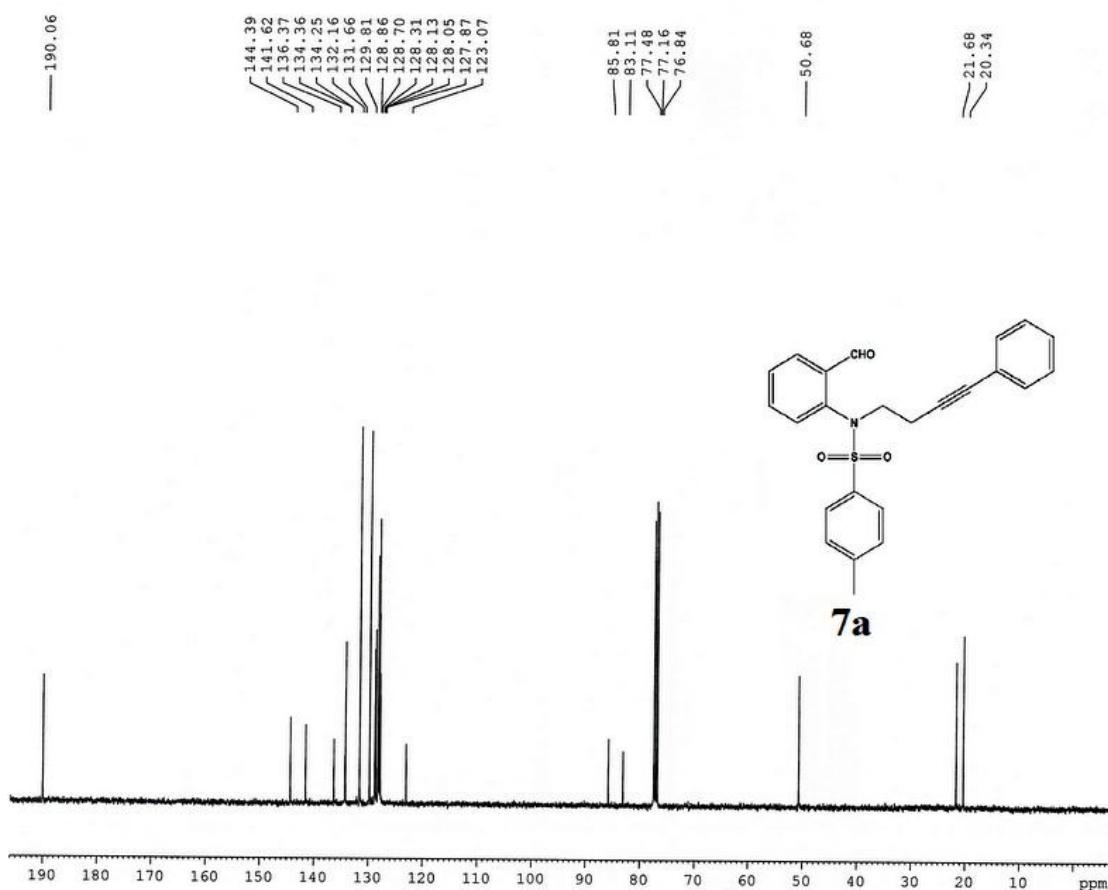
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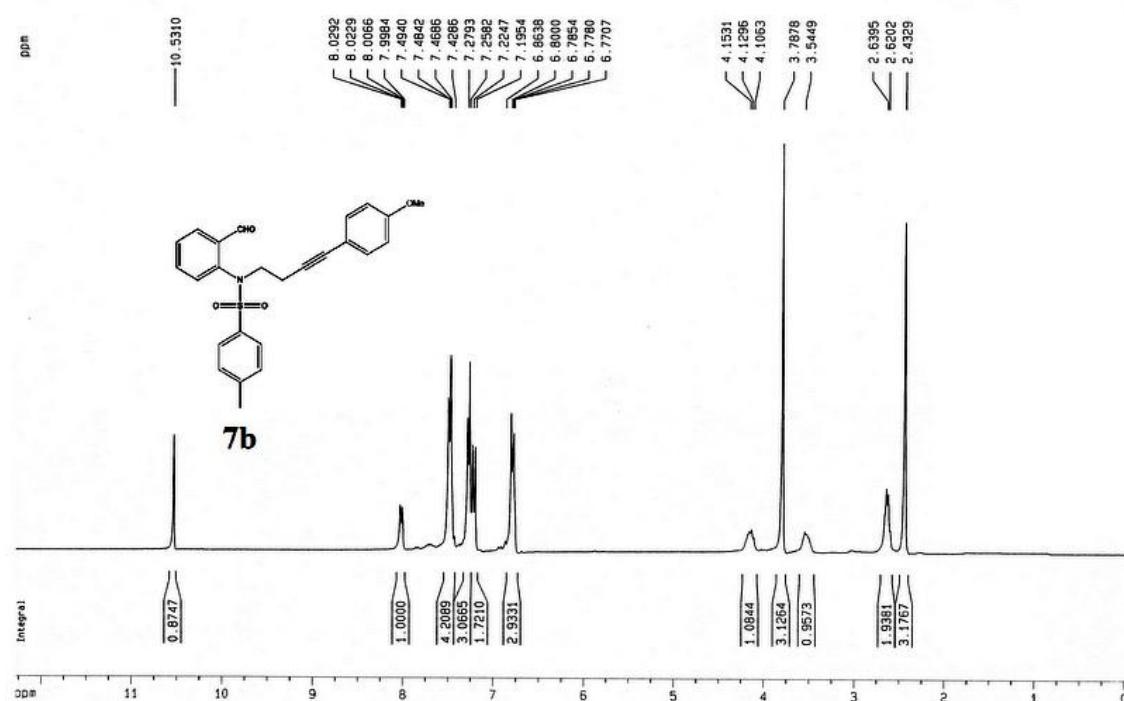
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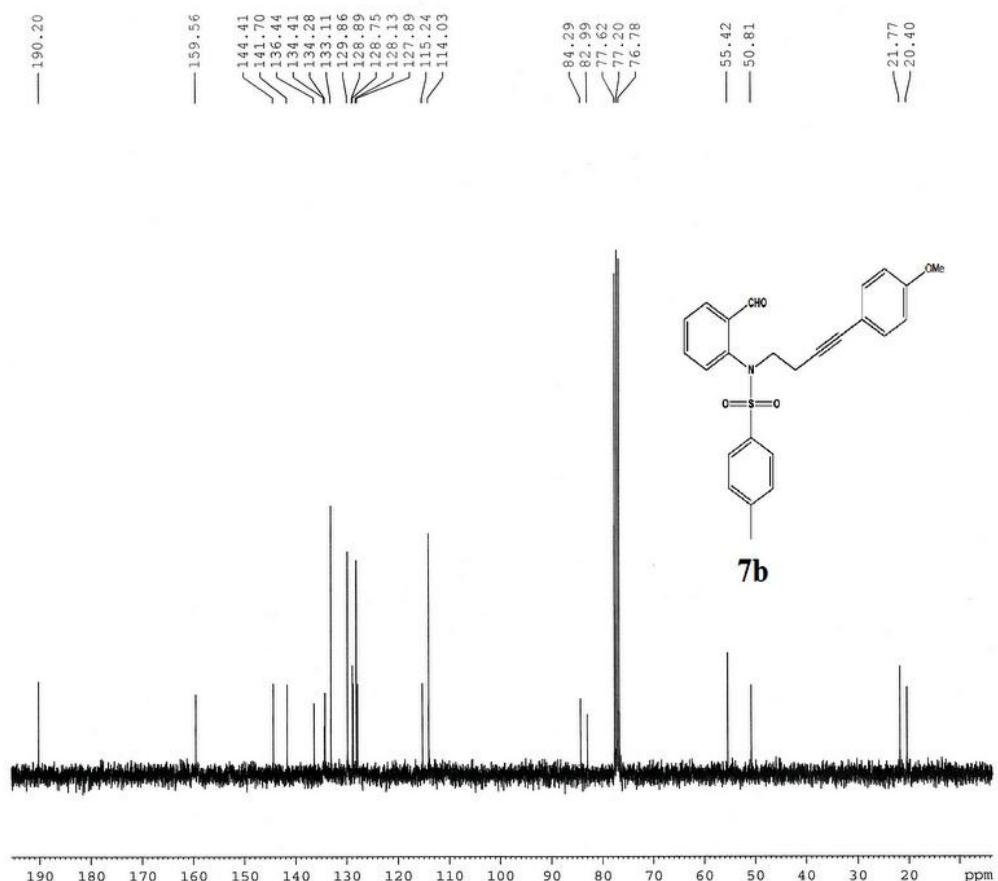
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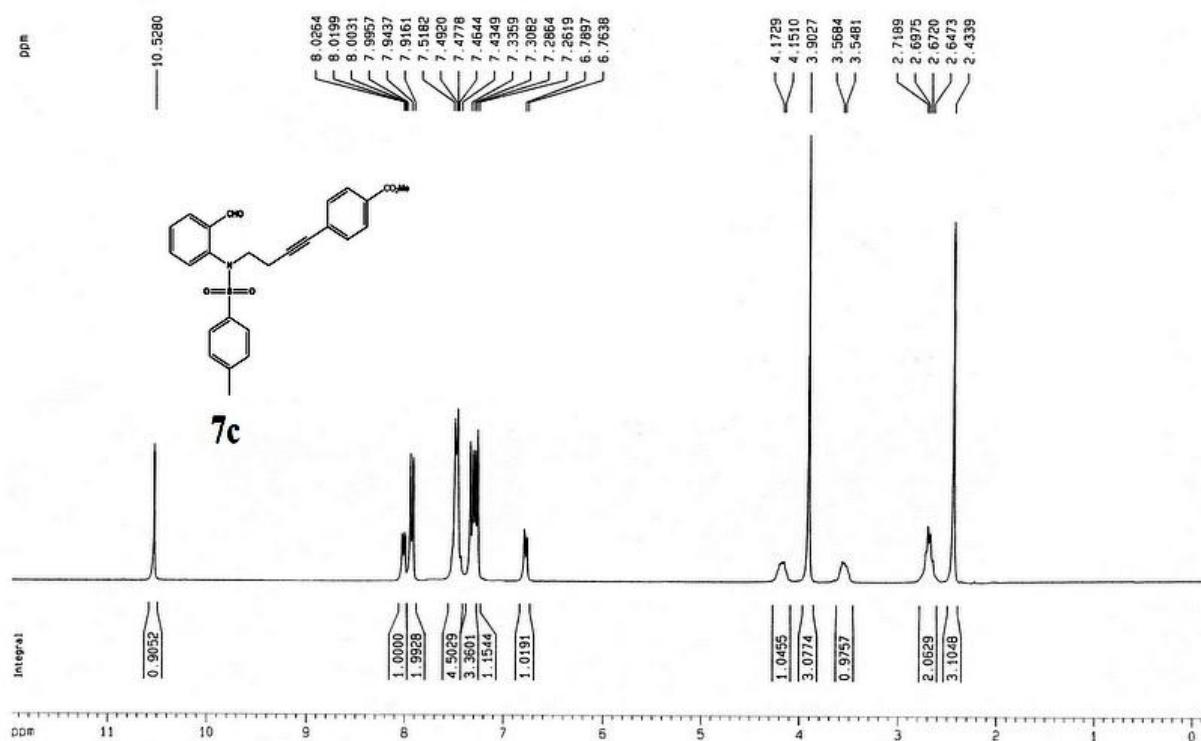
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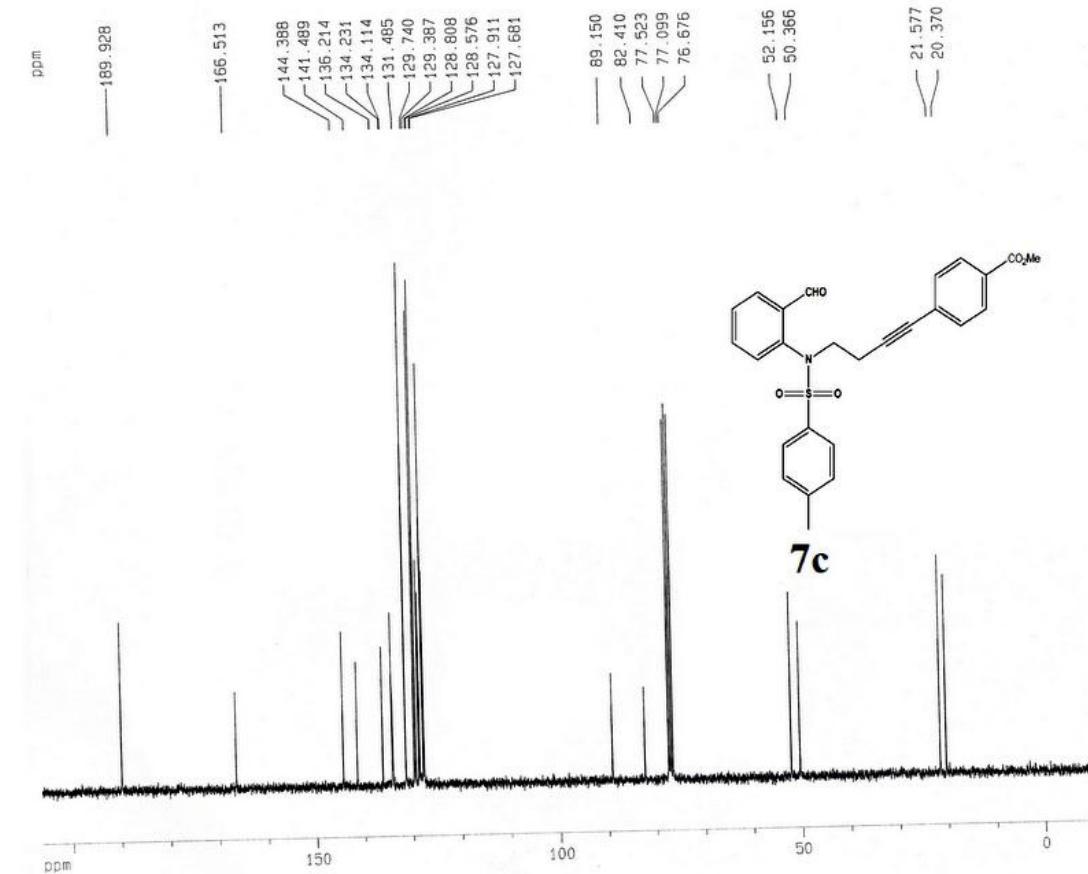
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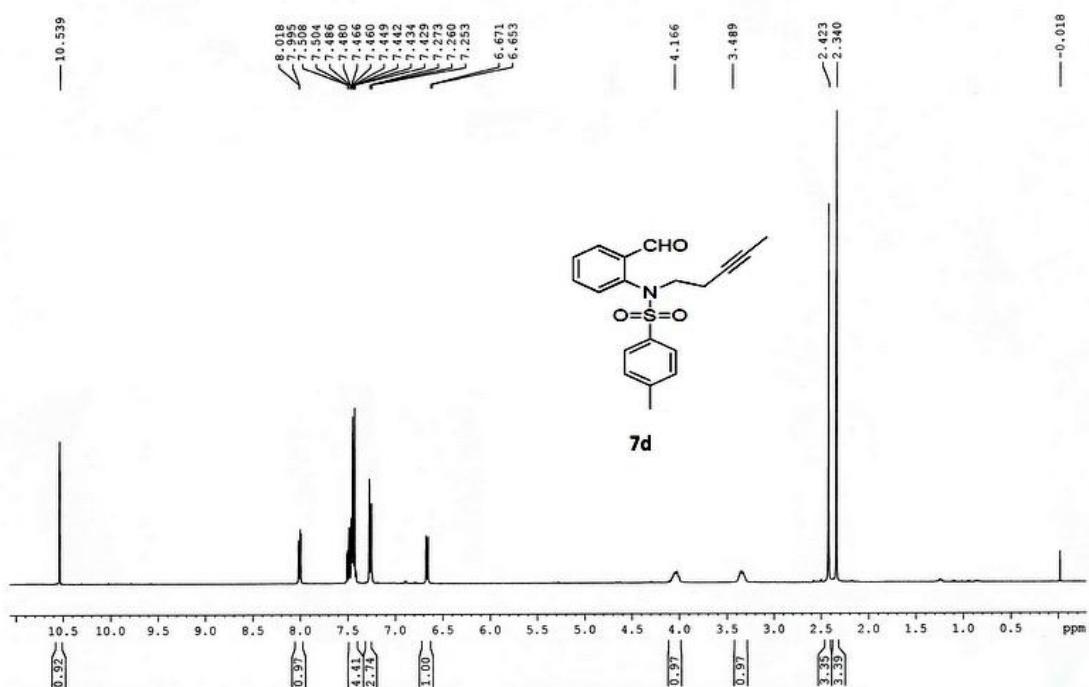
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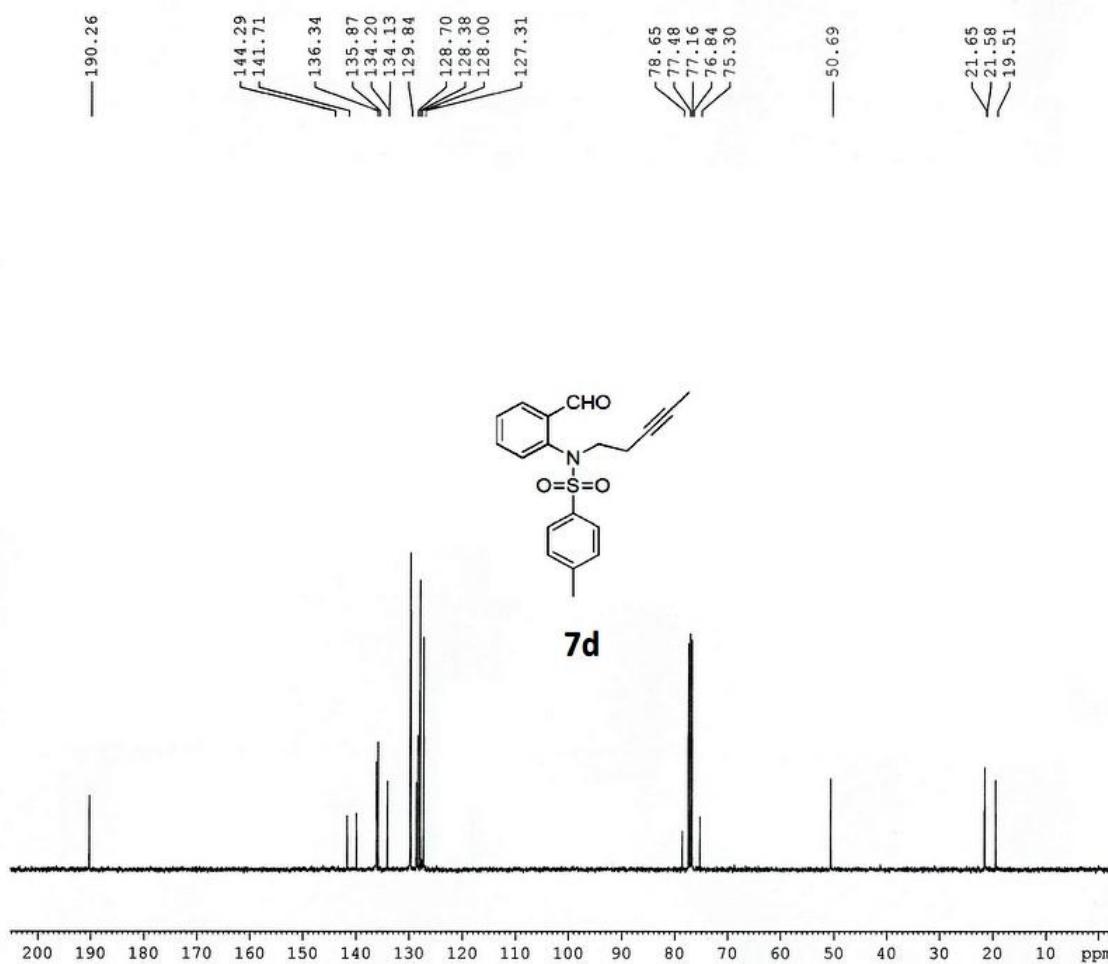
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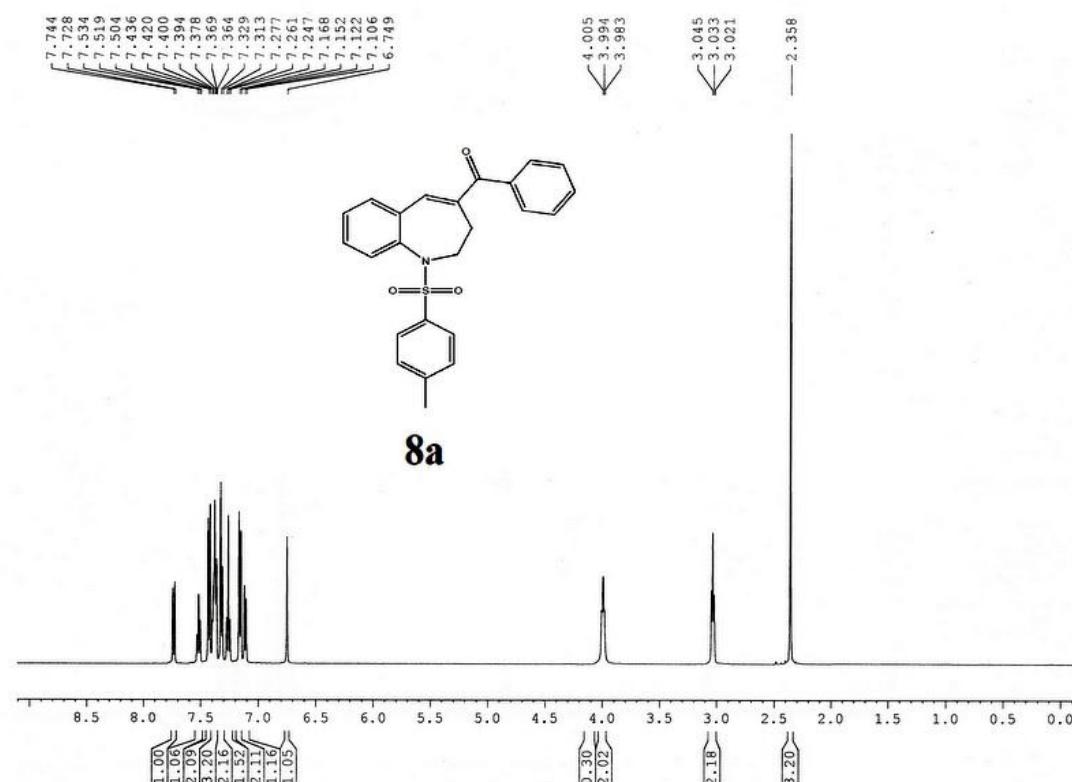
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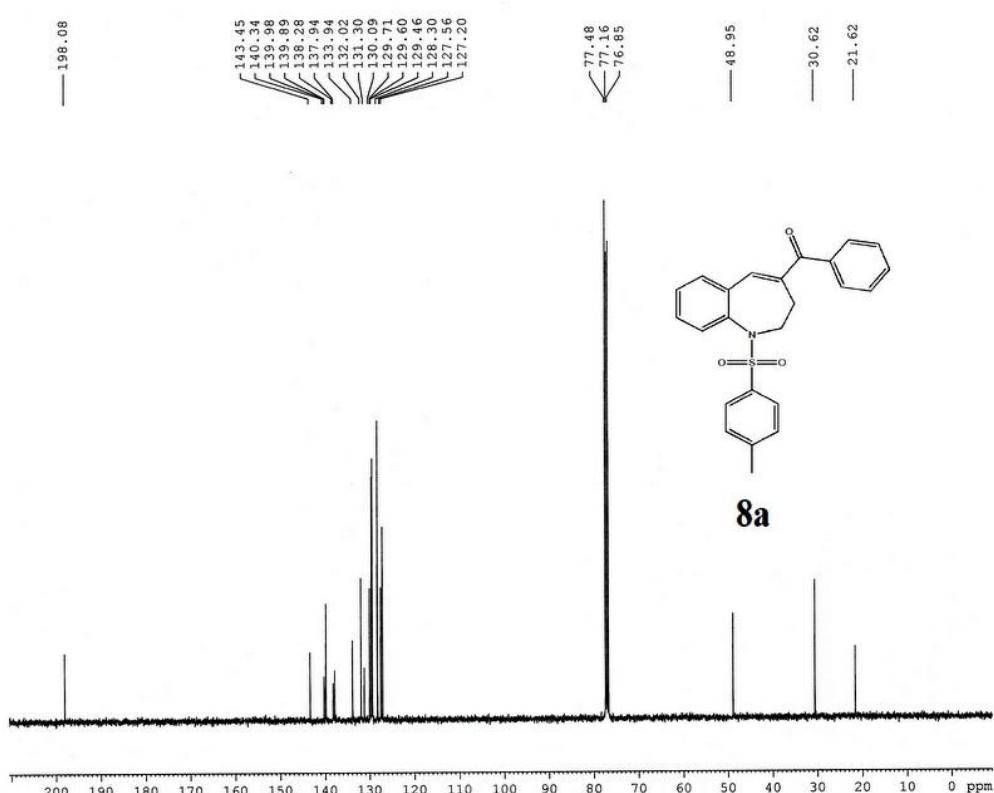
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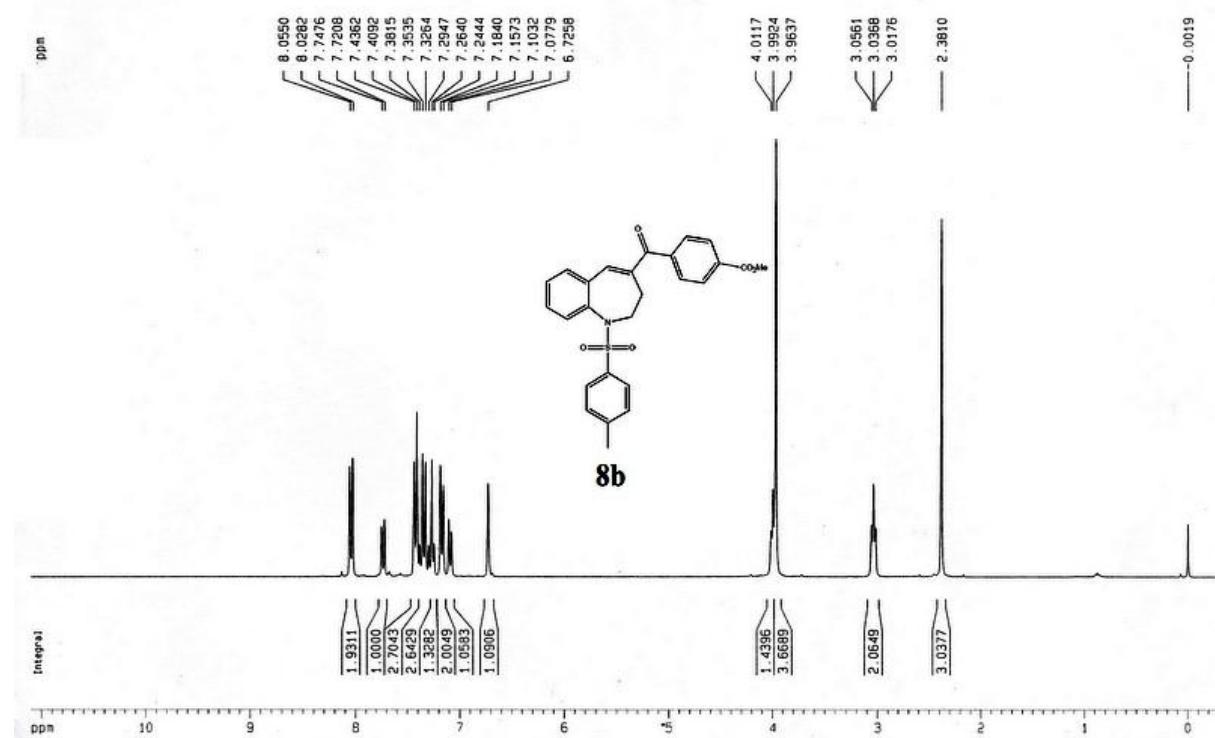
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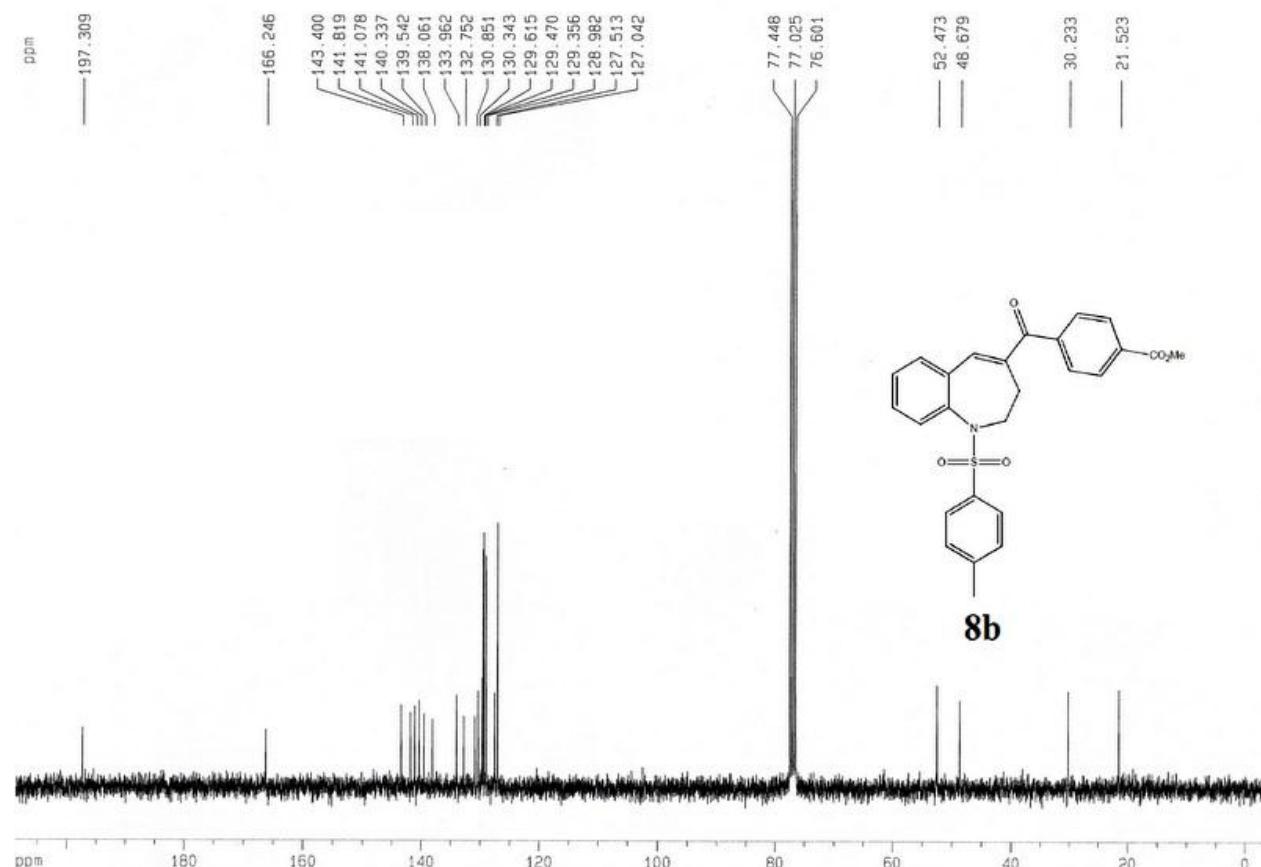
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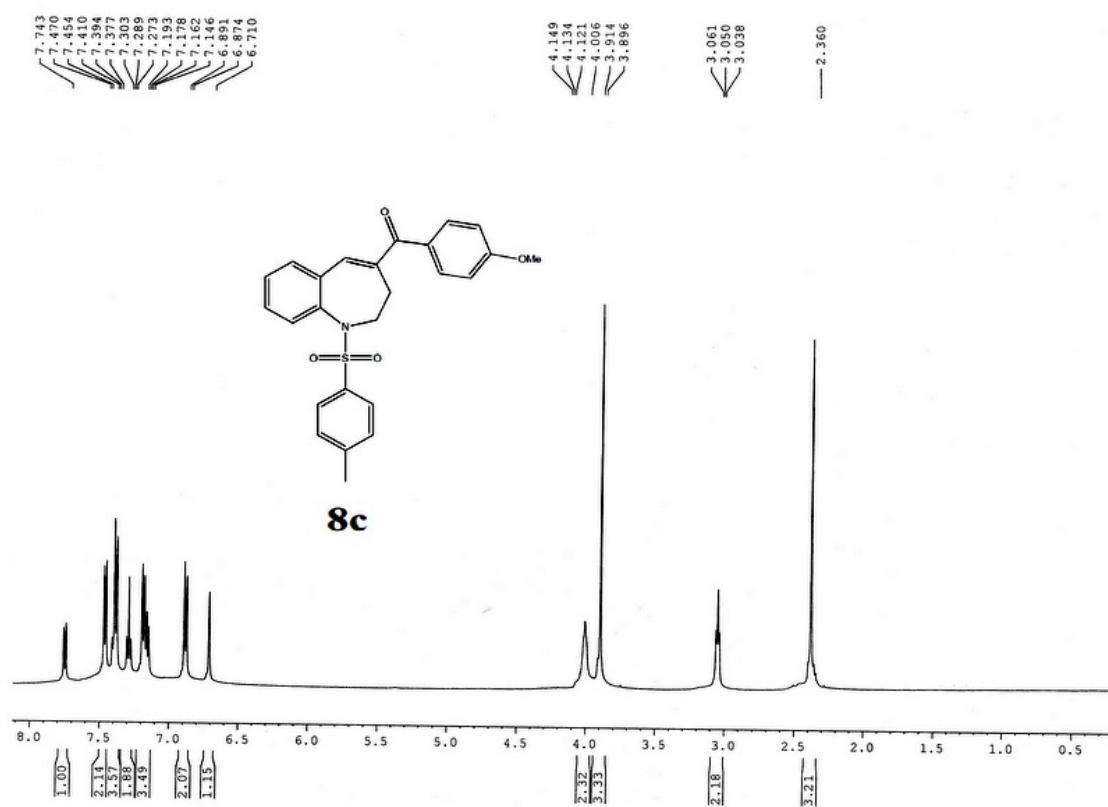
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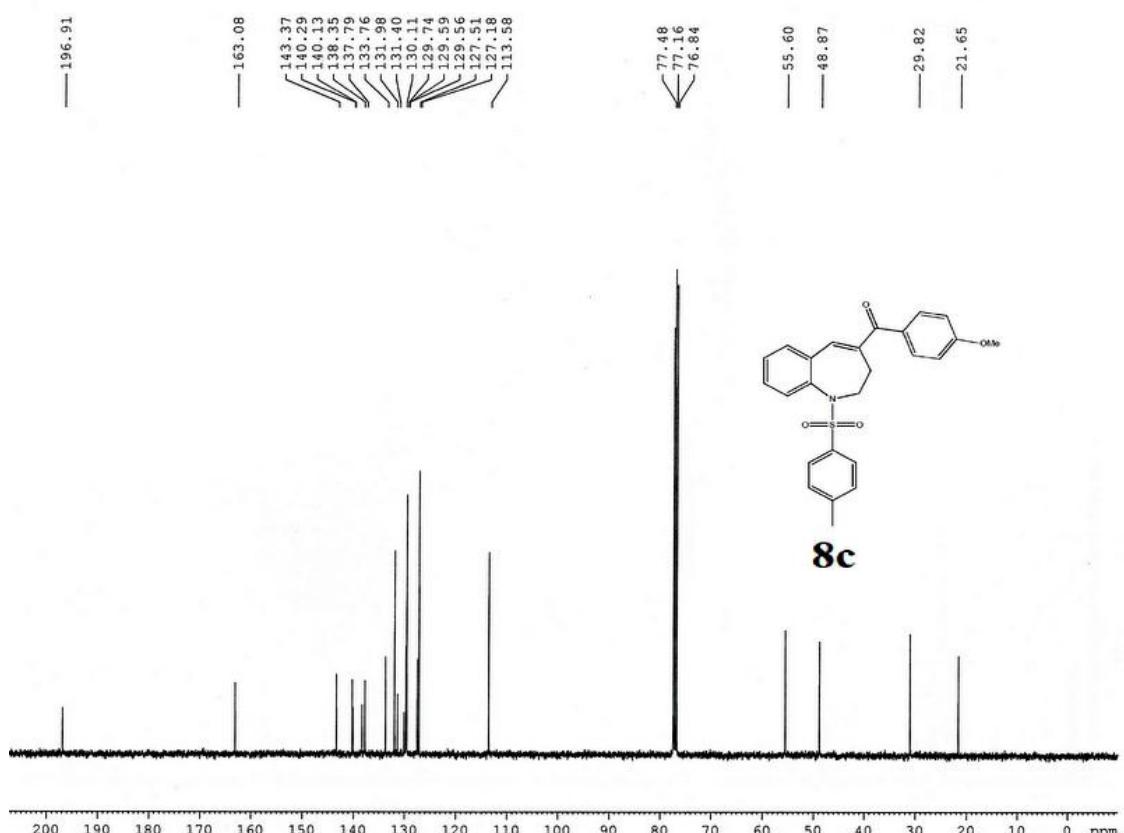
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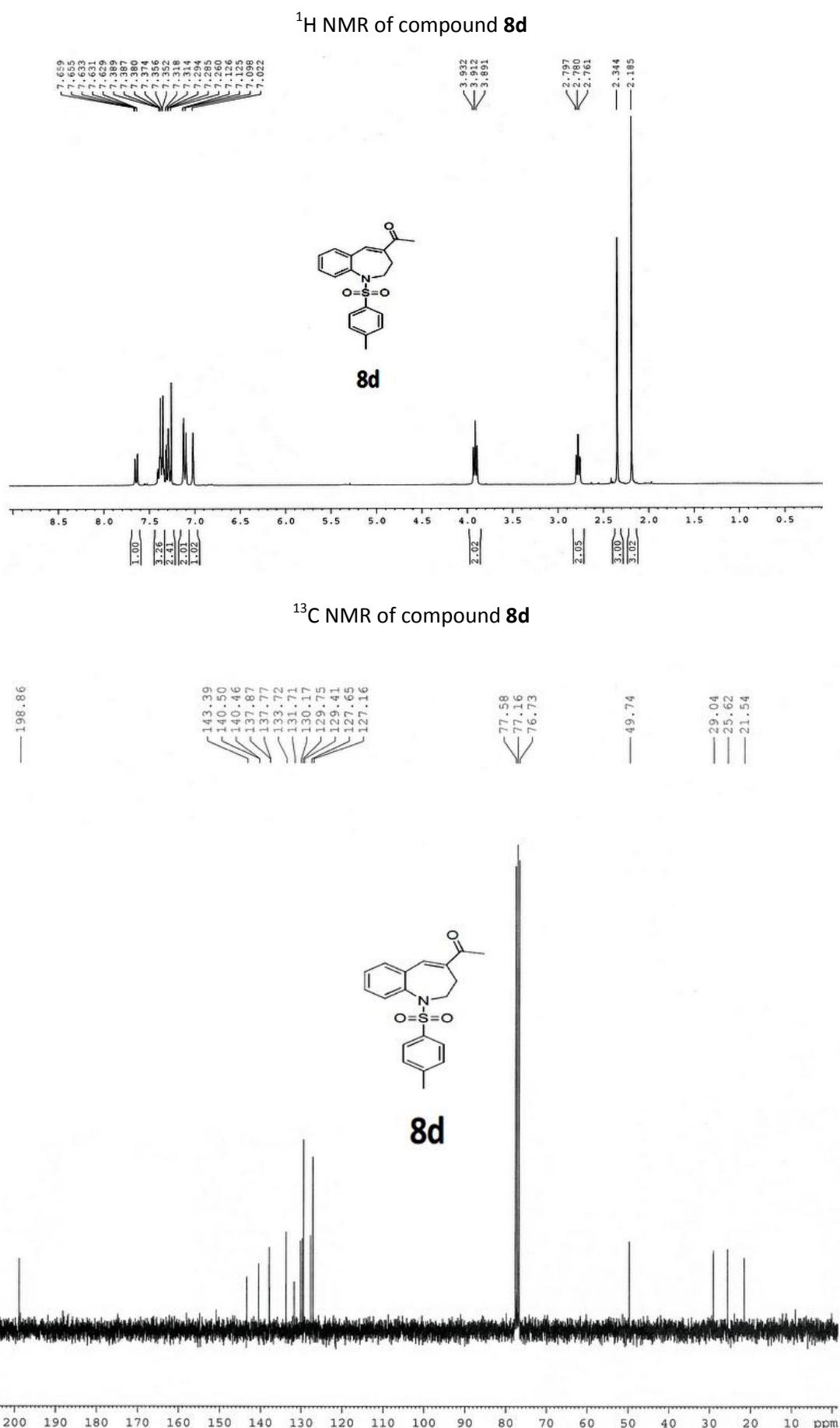


¹H NMR of compound 8c



¹³C NMR of compound 8c





Cryastal structure of 3b:

ORTEP representation of **3b**

Crystallographic data have been deposited in the Cambridge Crystallographic Data Centre (CCDC number **961970**).

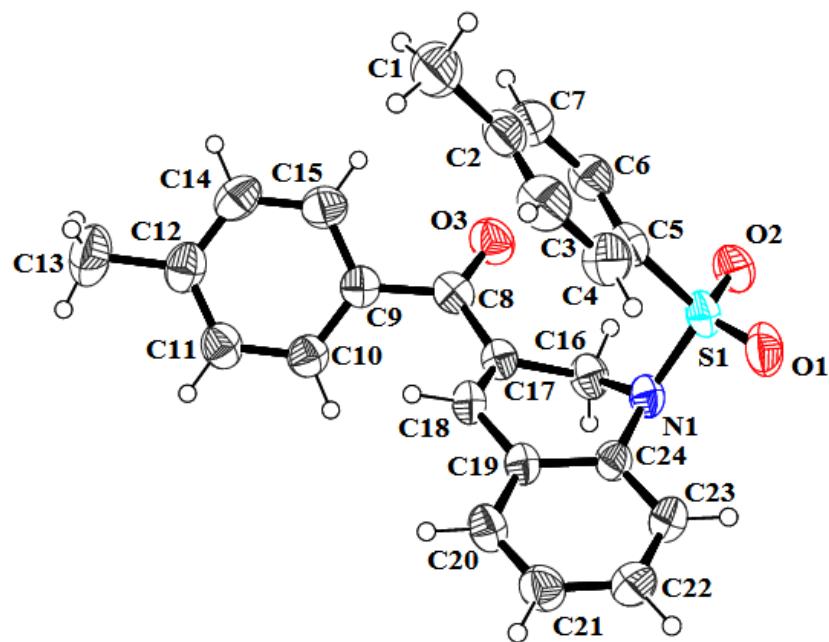


Figure 1. Representations of **3b** showing 40 % probability of thermal ellipsoid.