

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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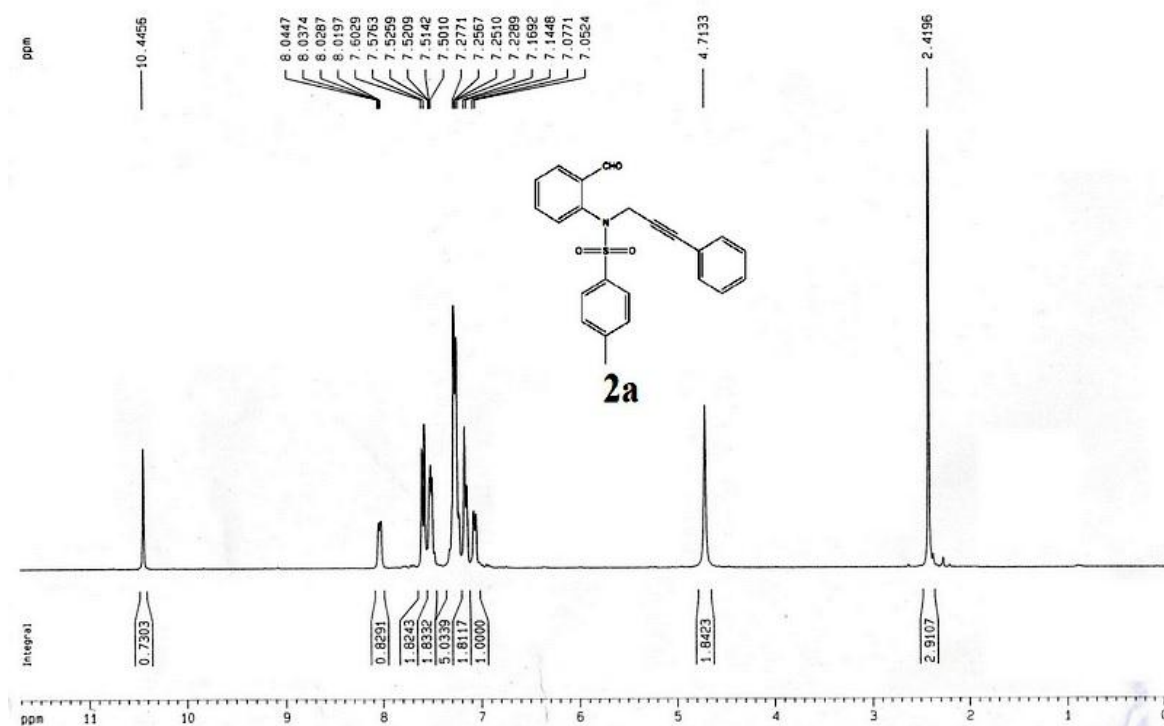
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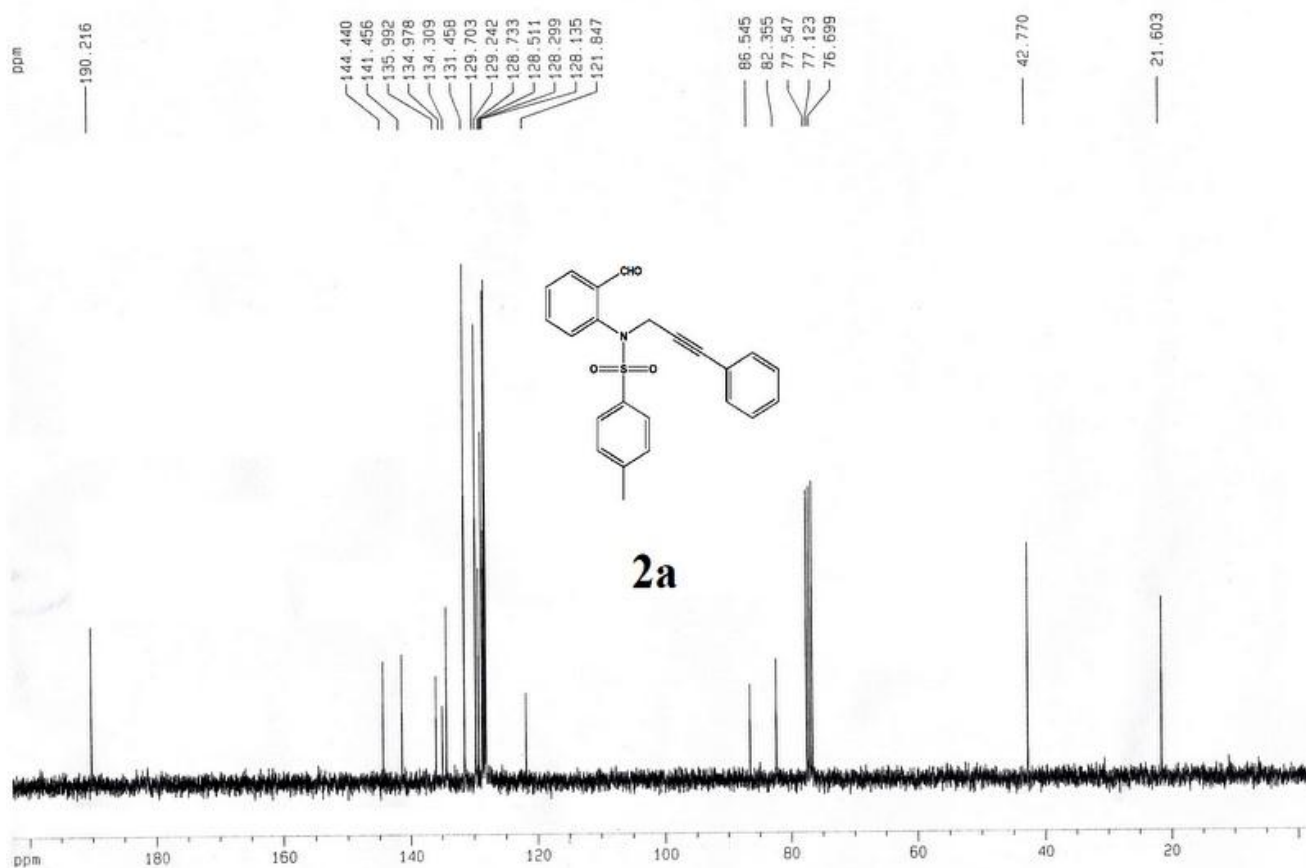
Table of Contents

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

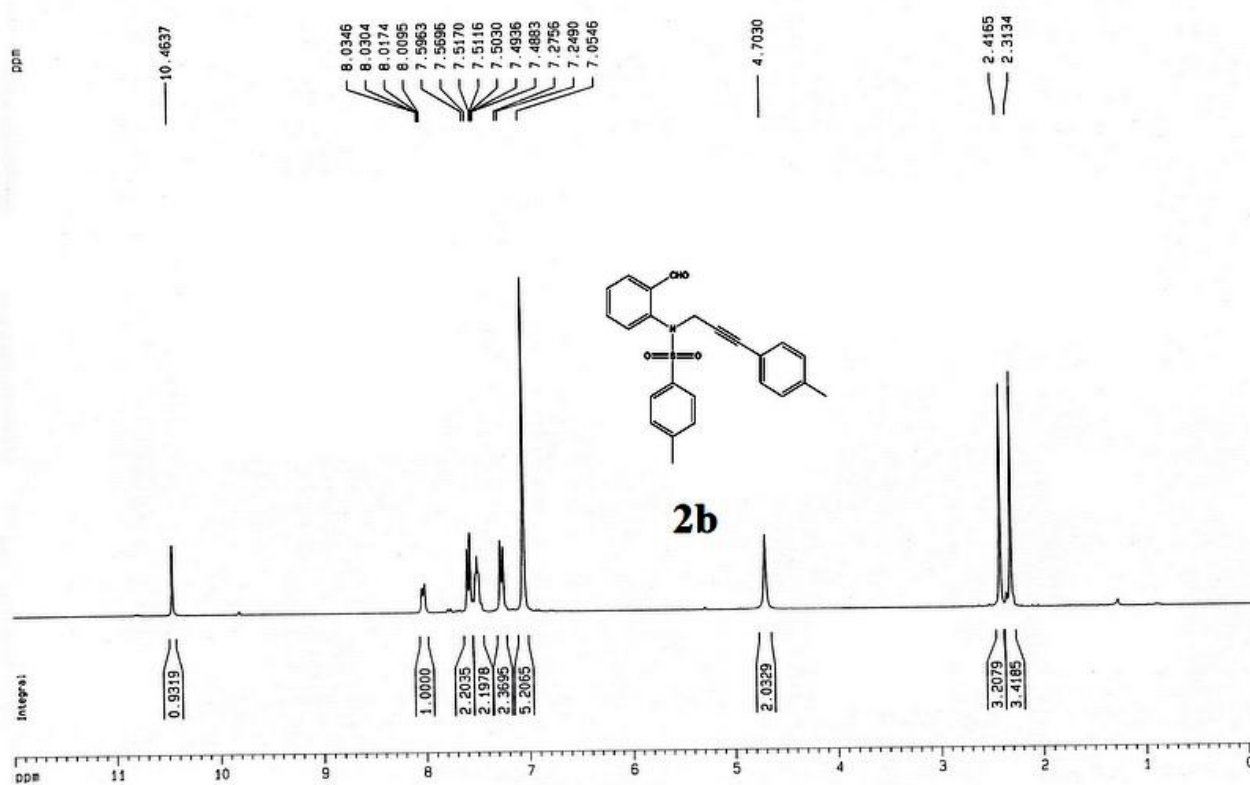
^1H NMR of compound **2a**



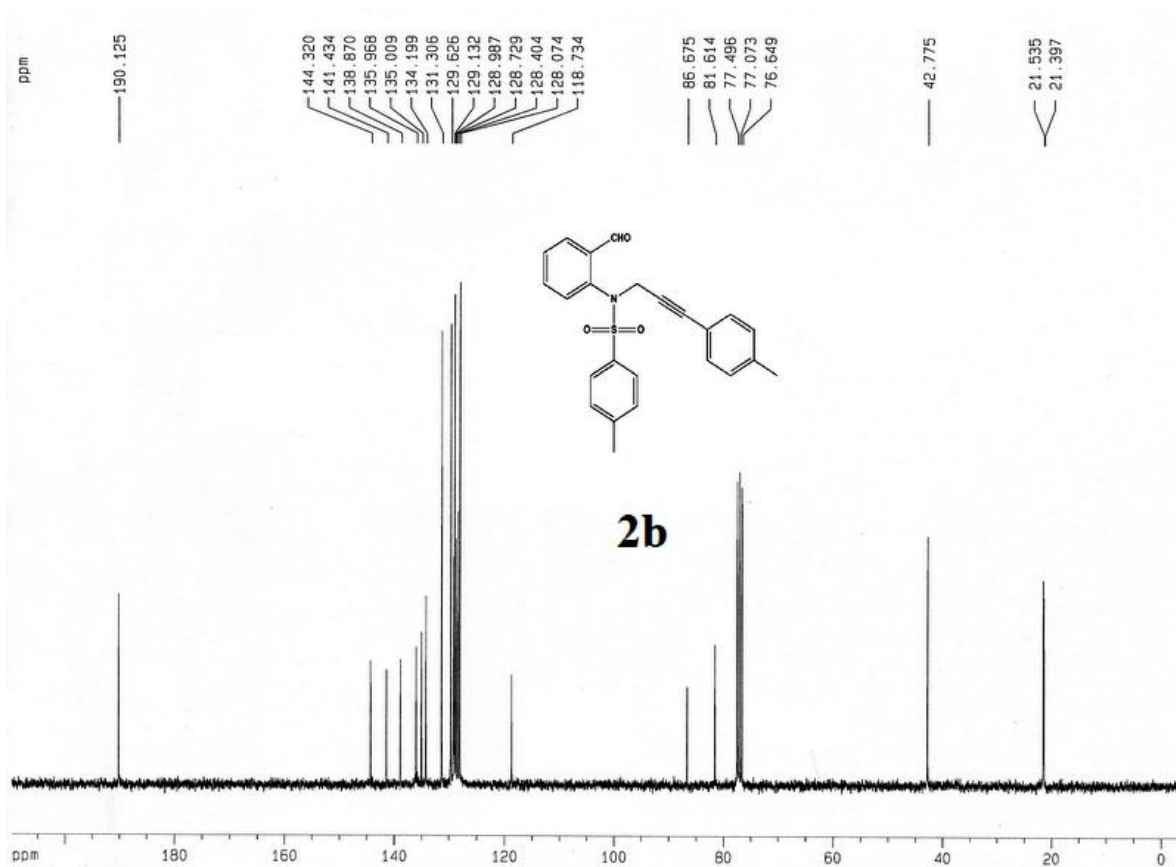
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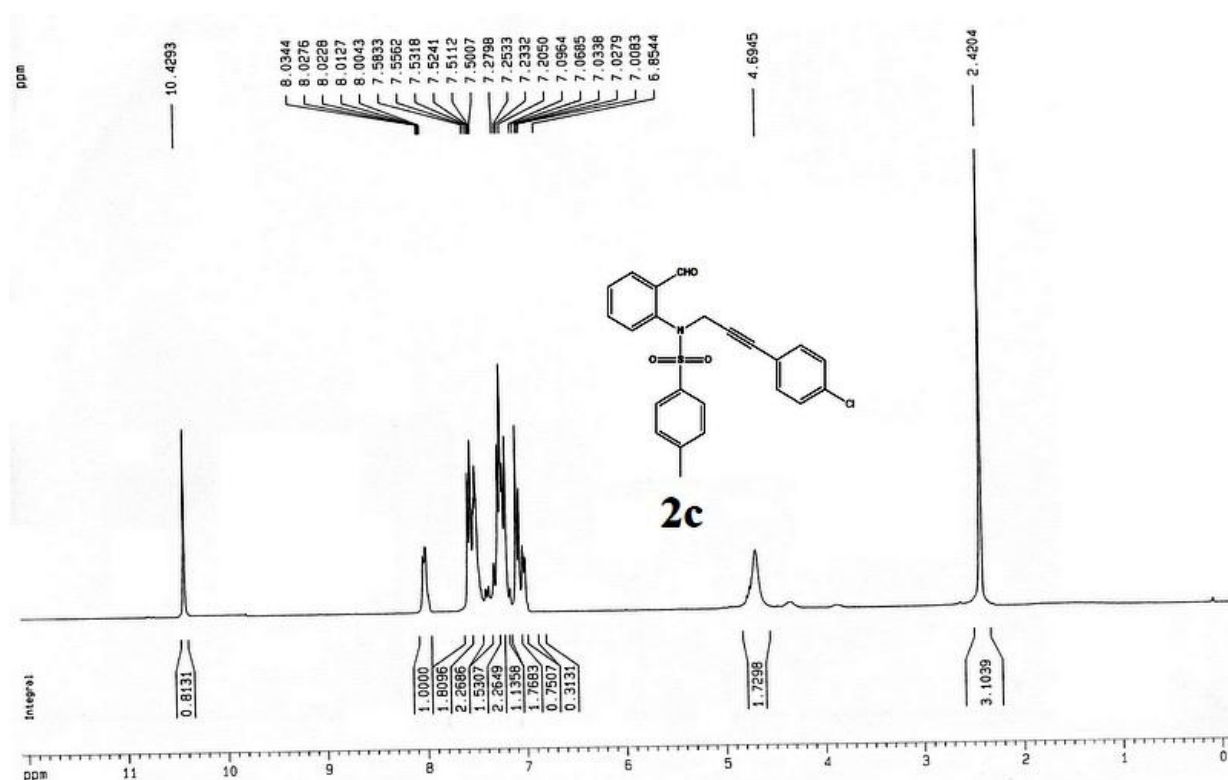
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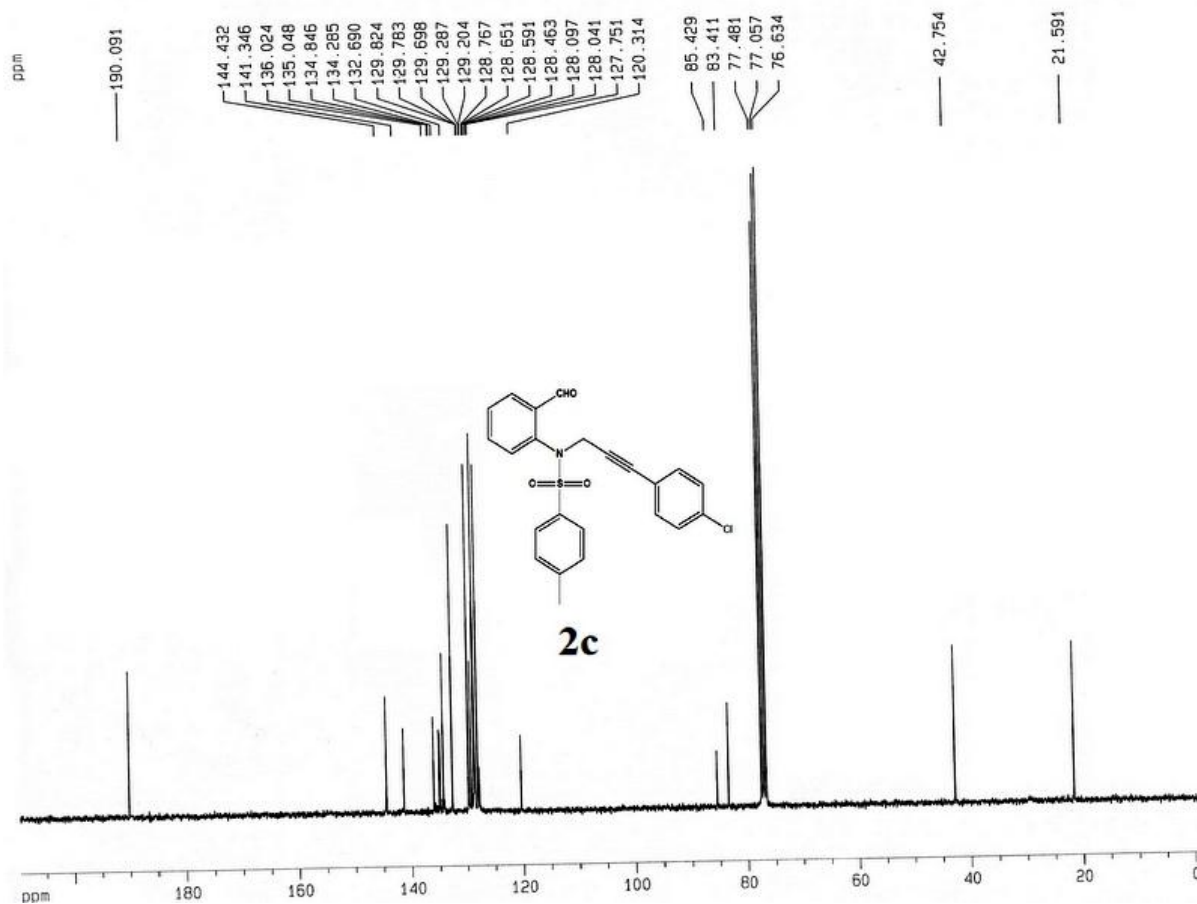
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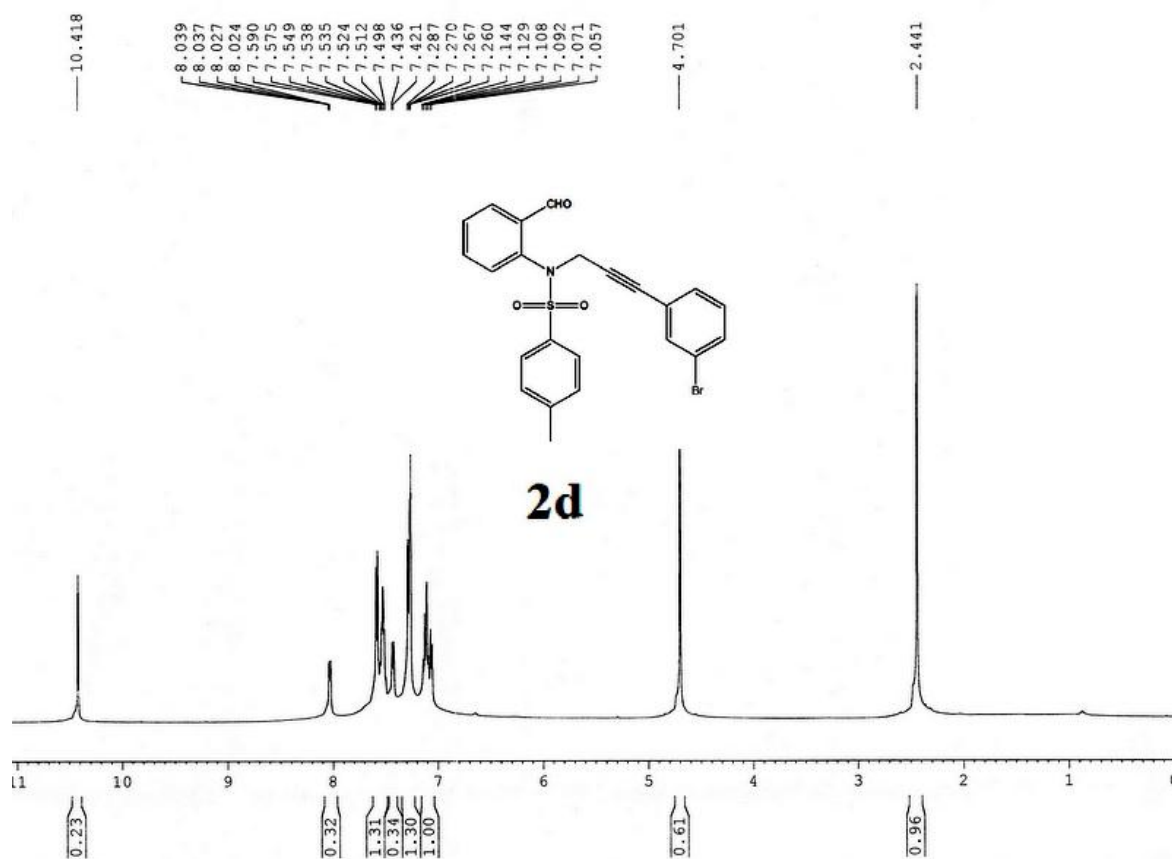
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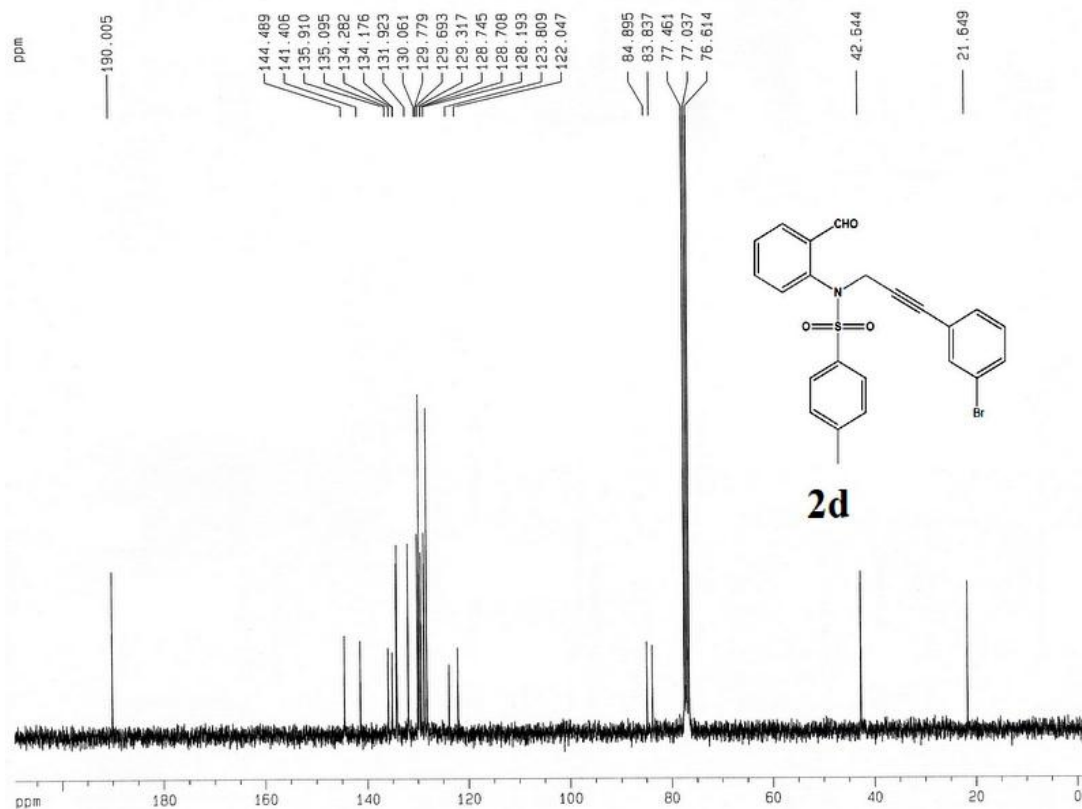
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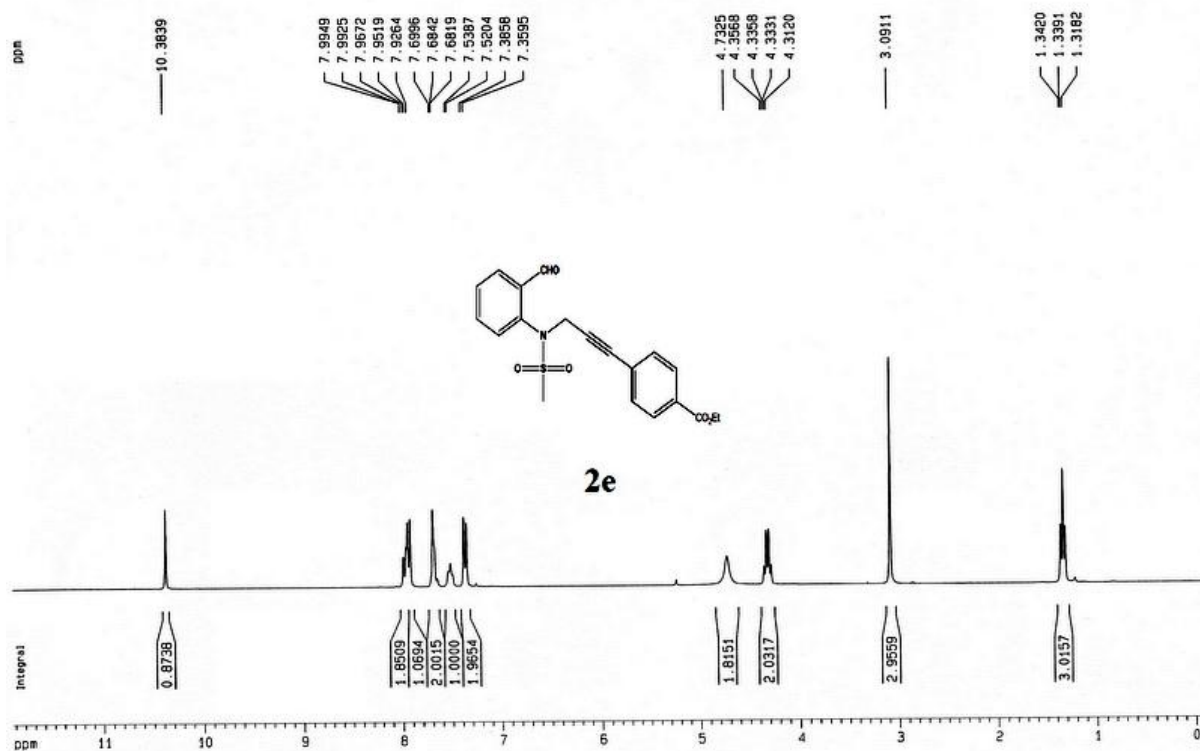
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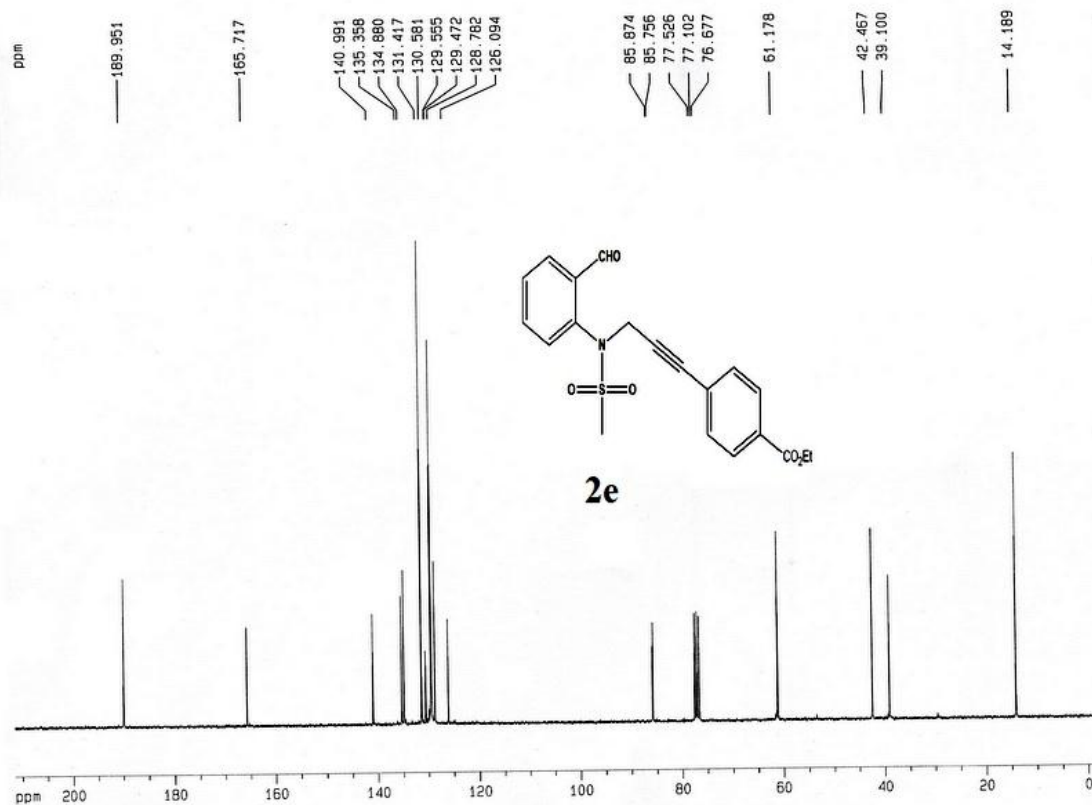
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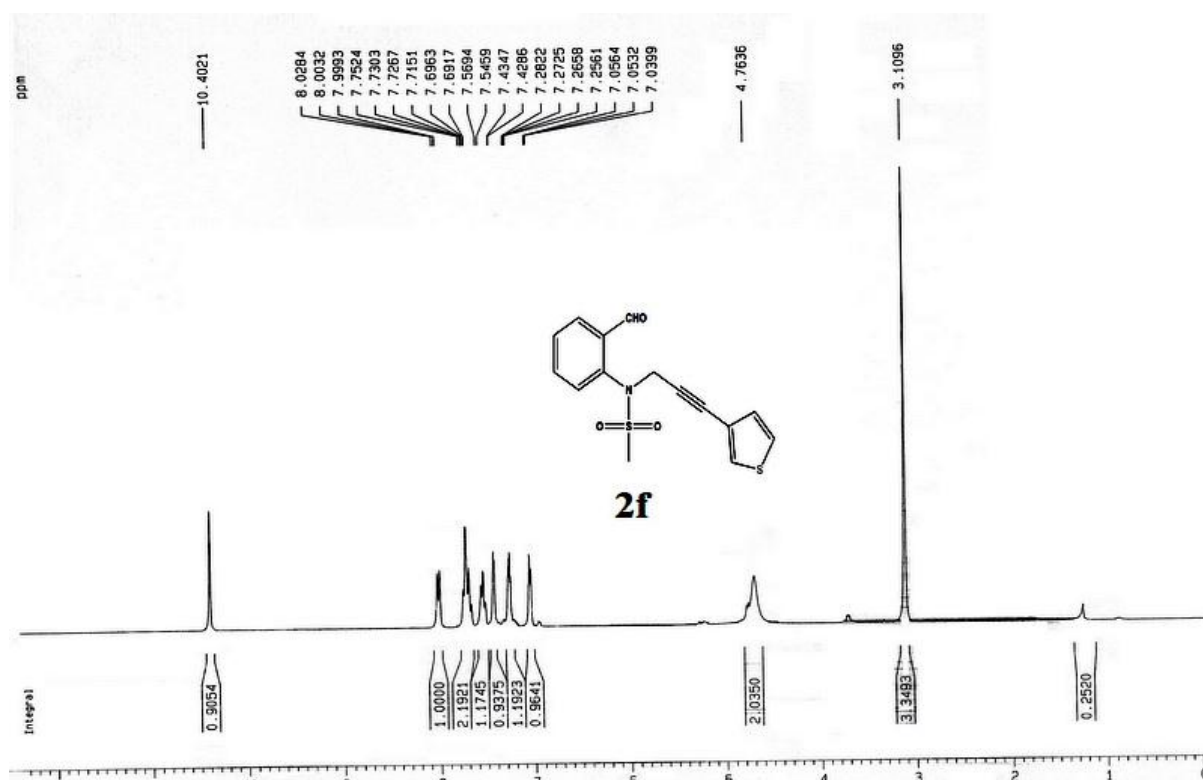
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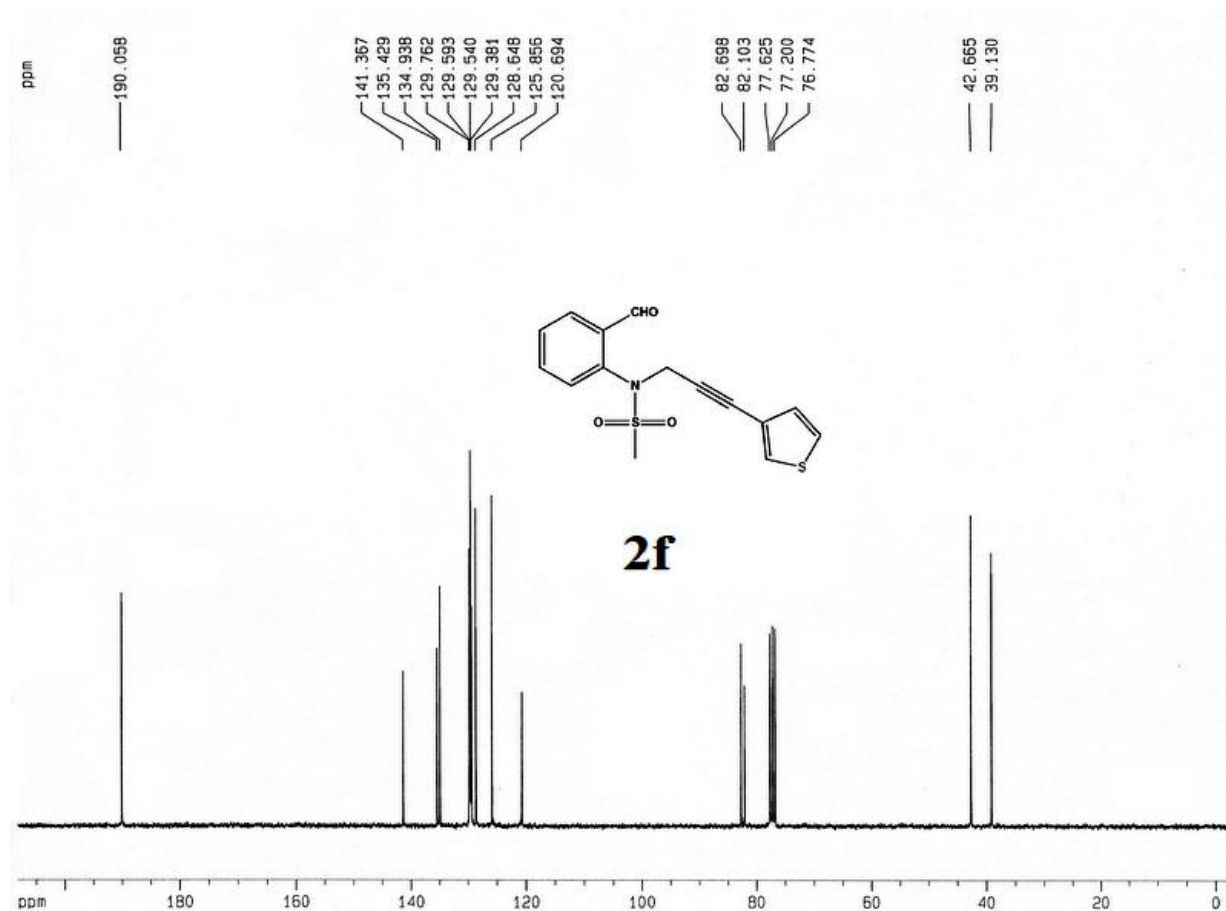
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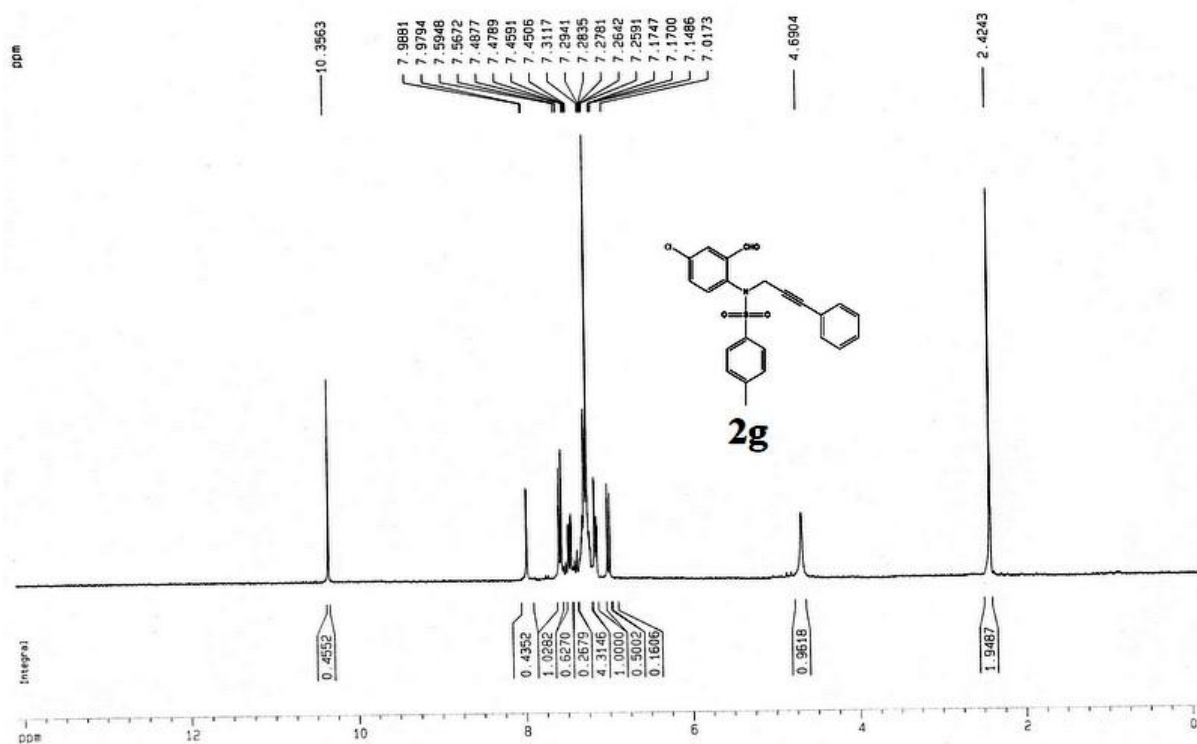
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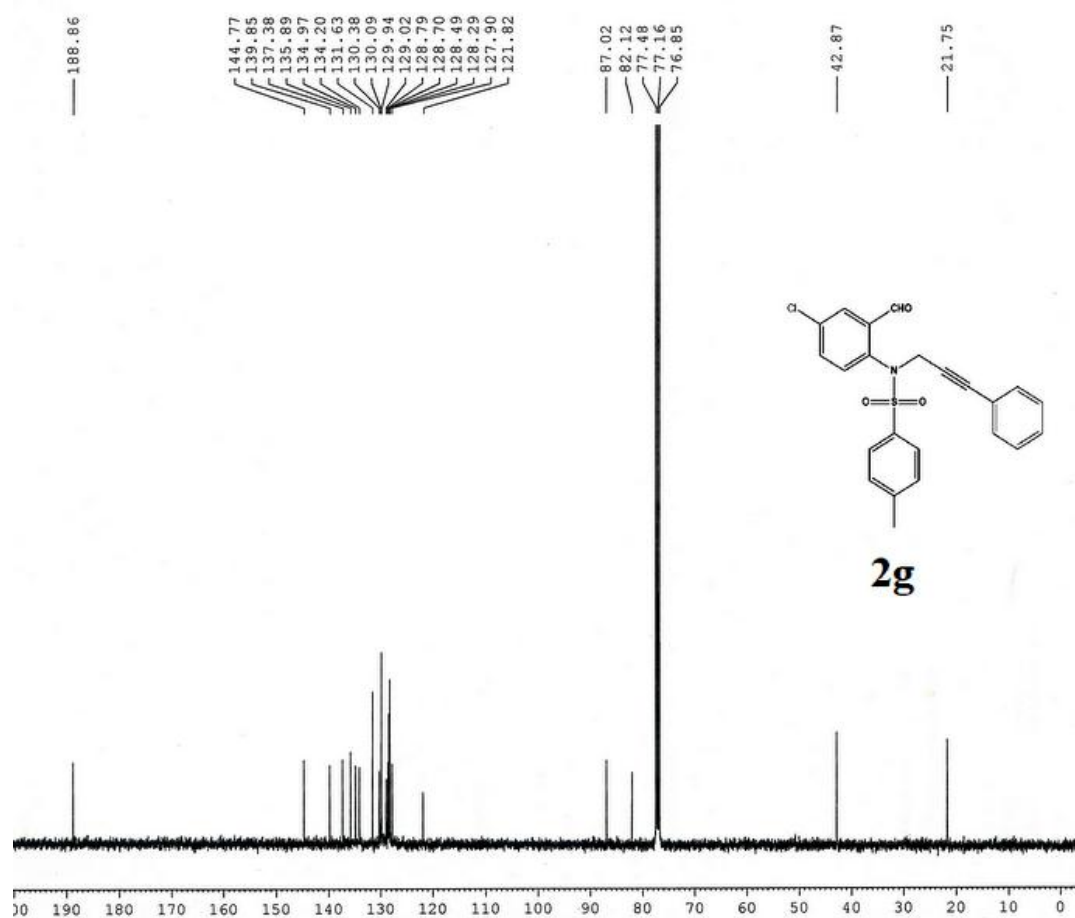
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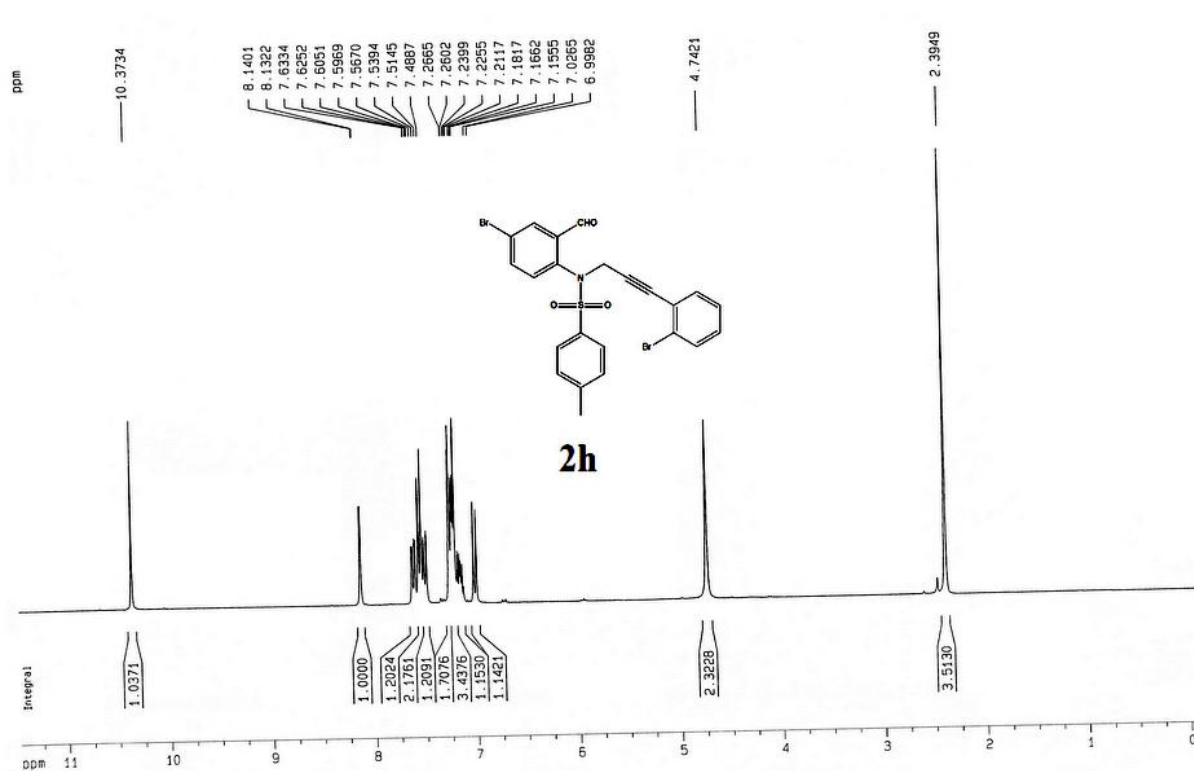
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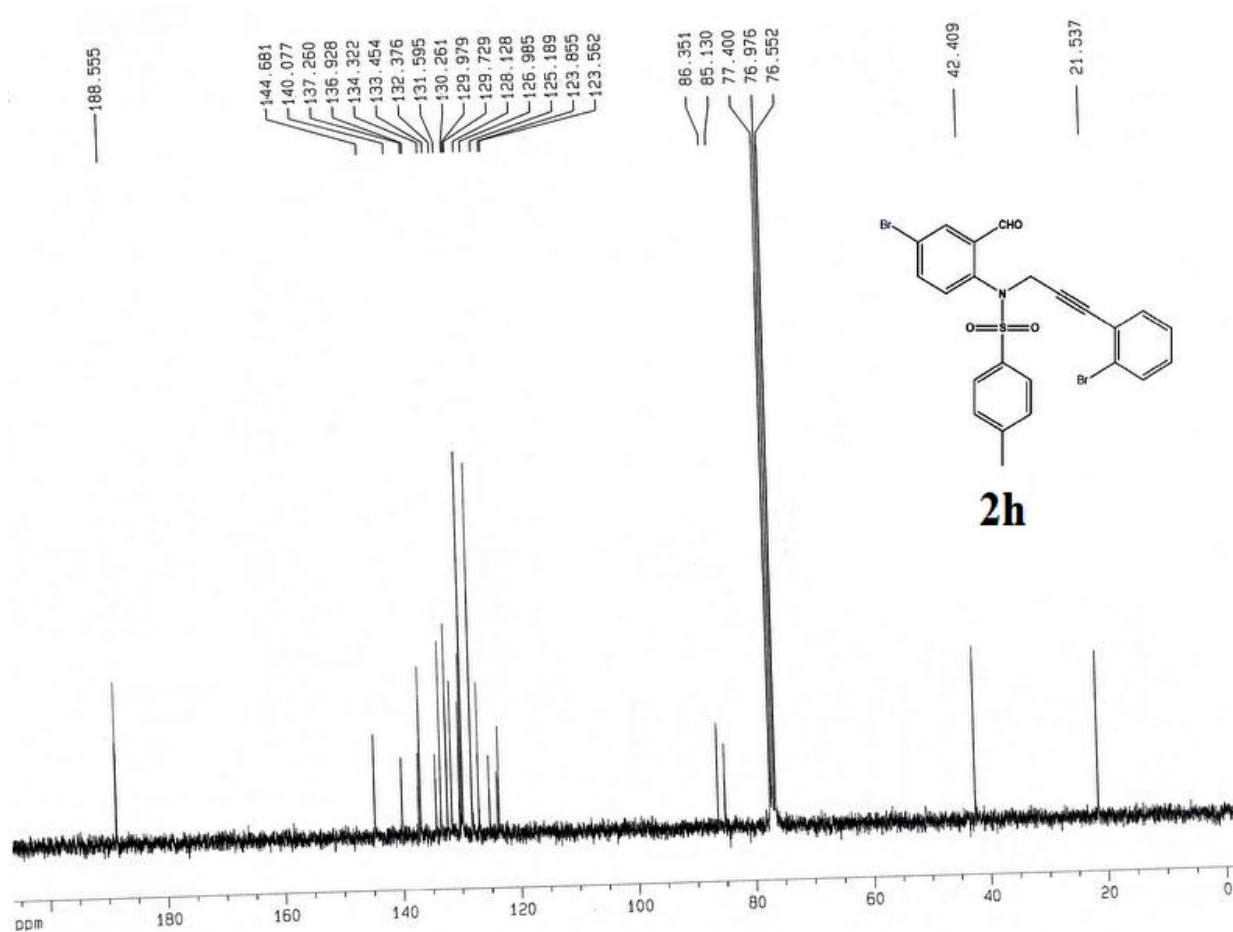
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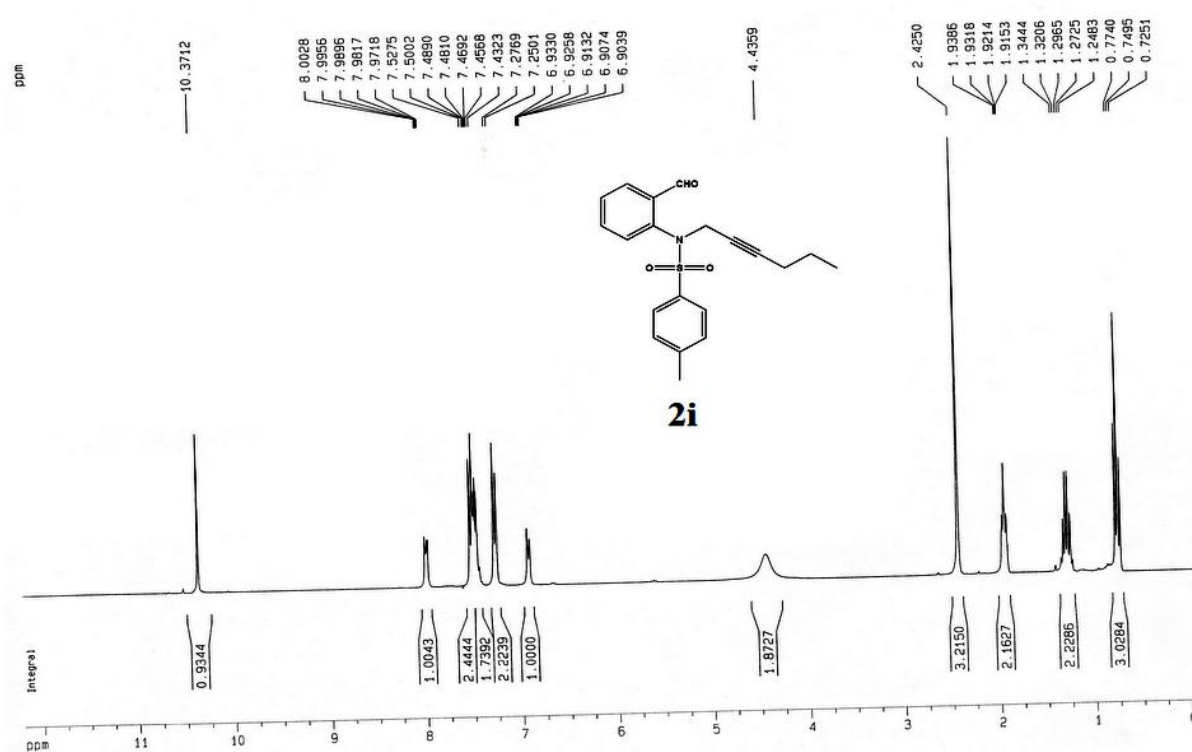
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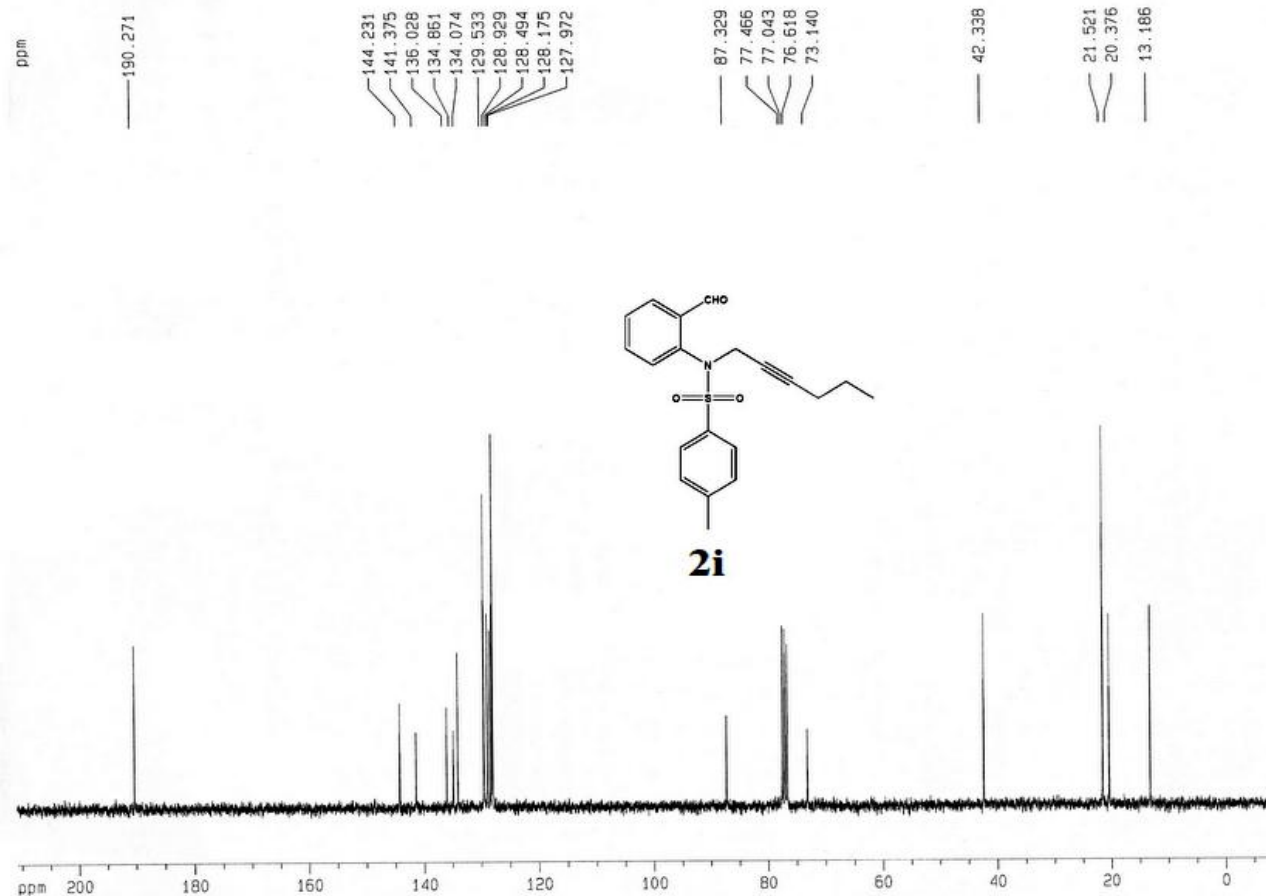
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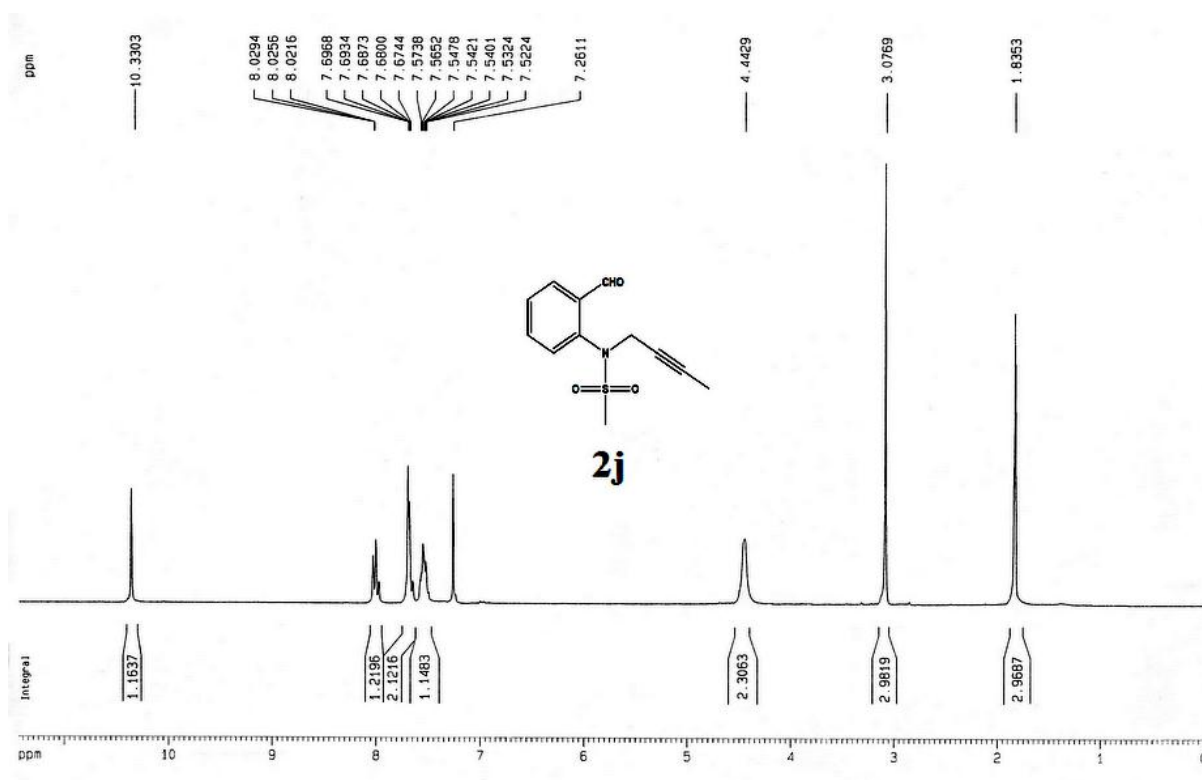
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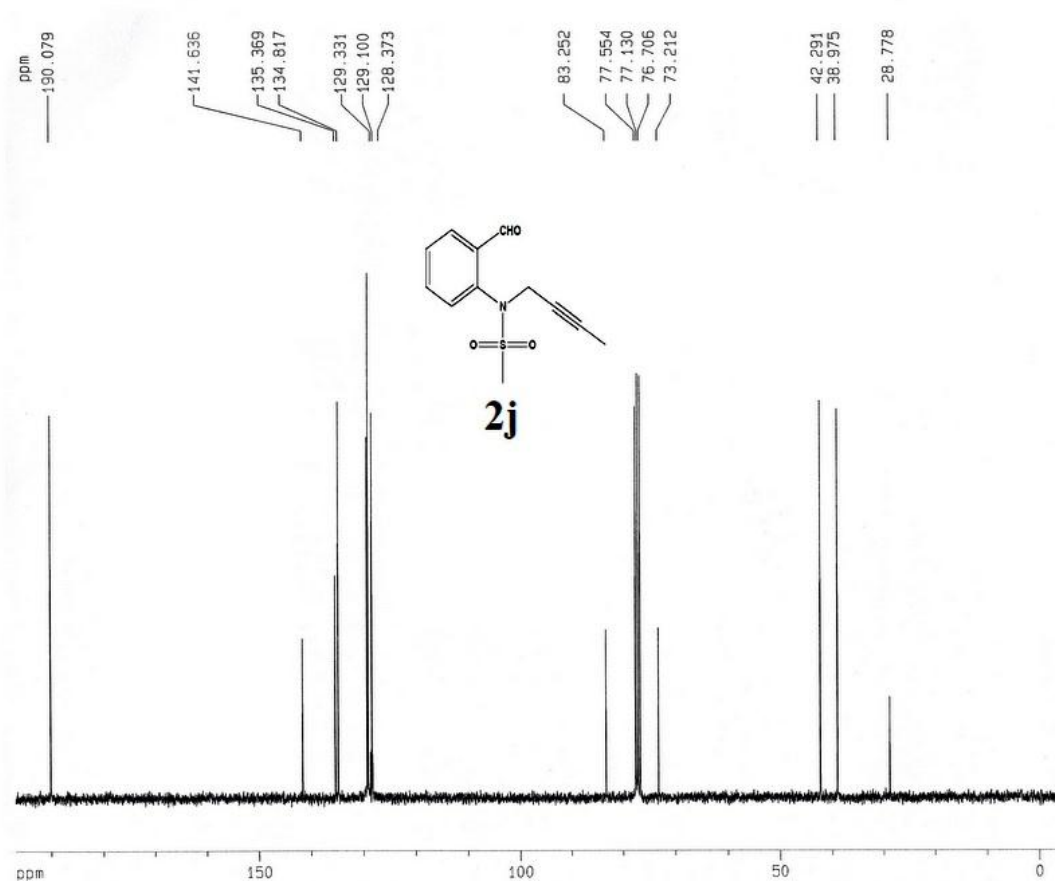
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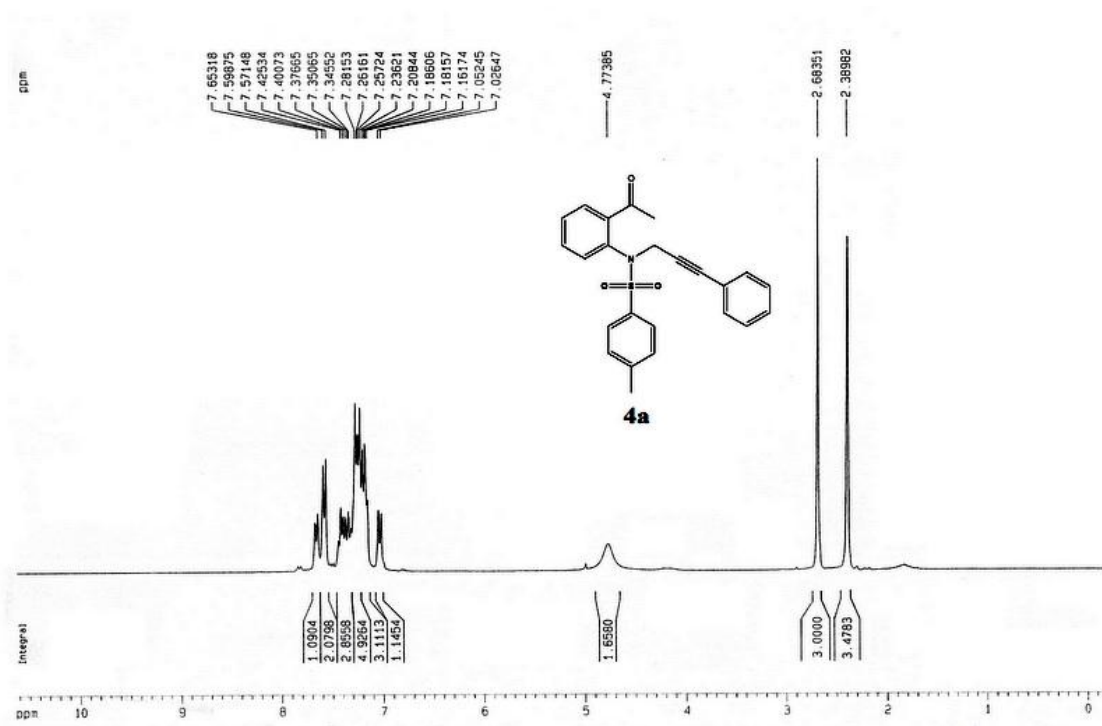
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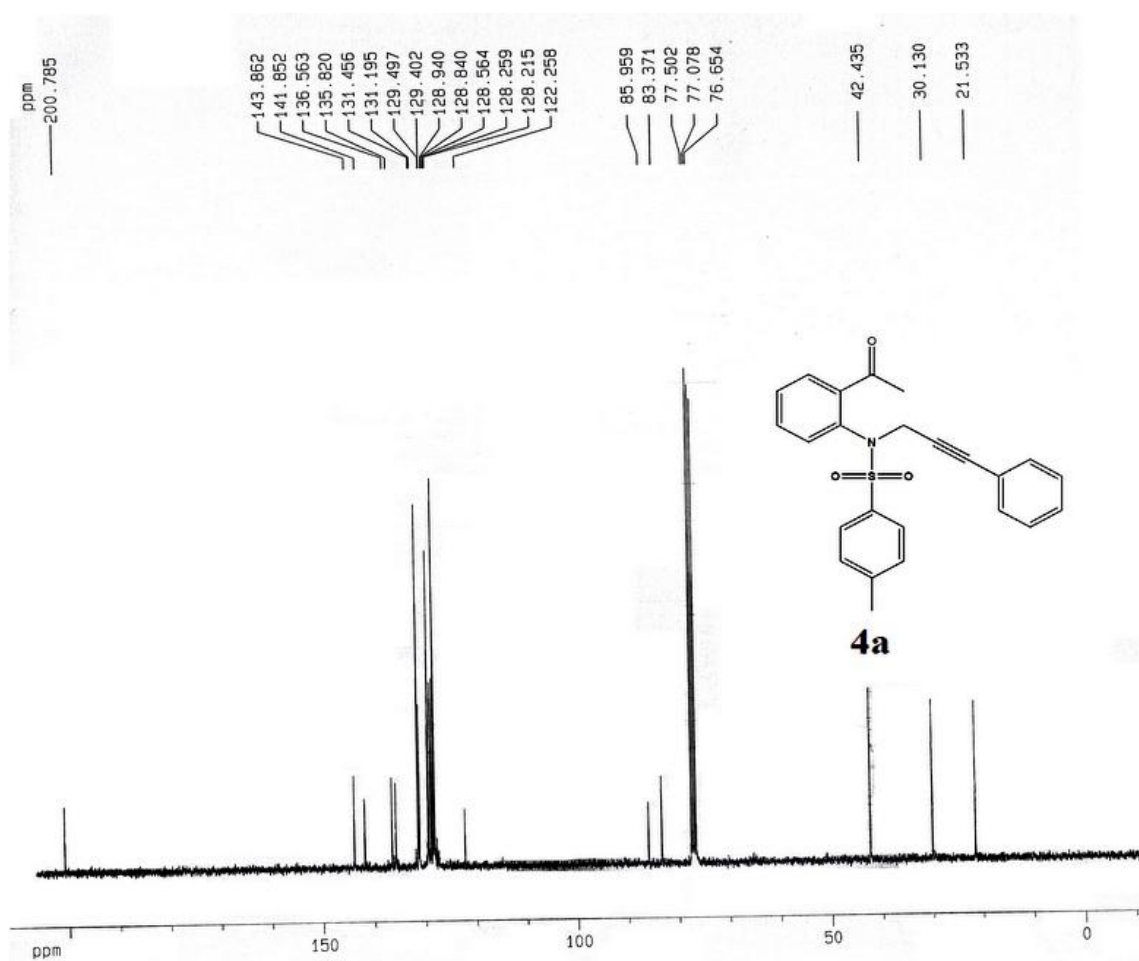
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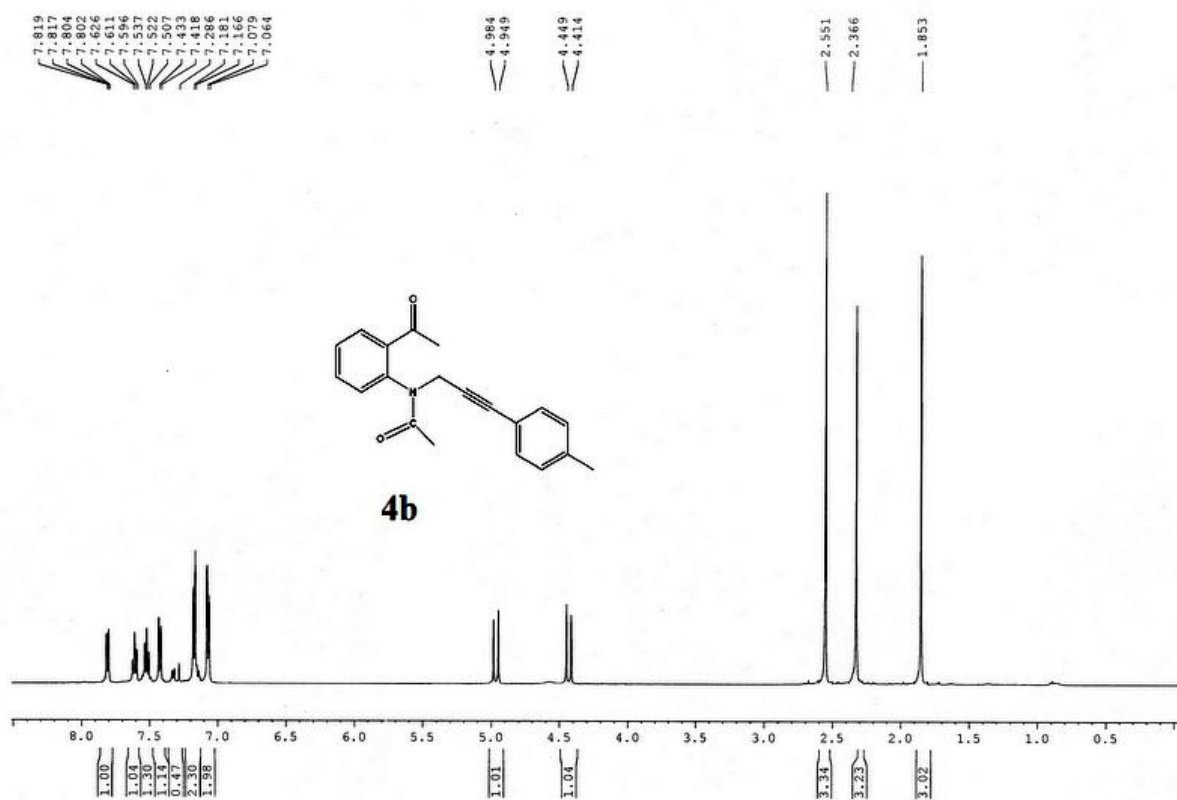
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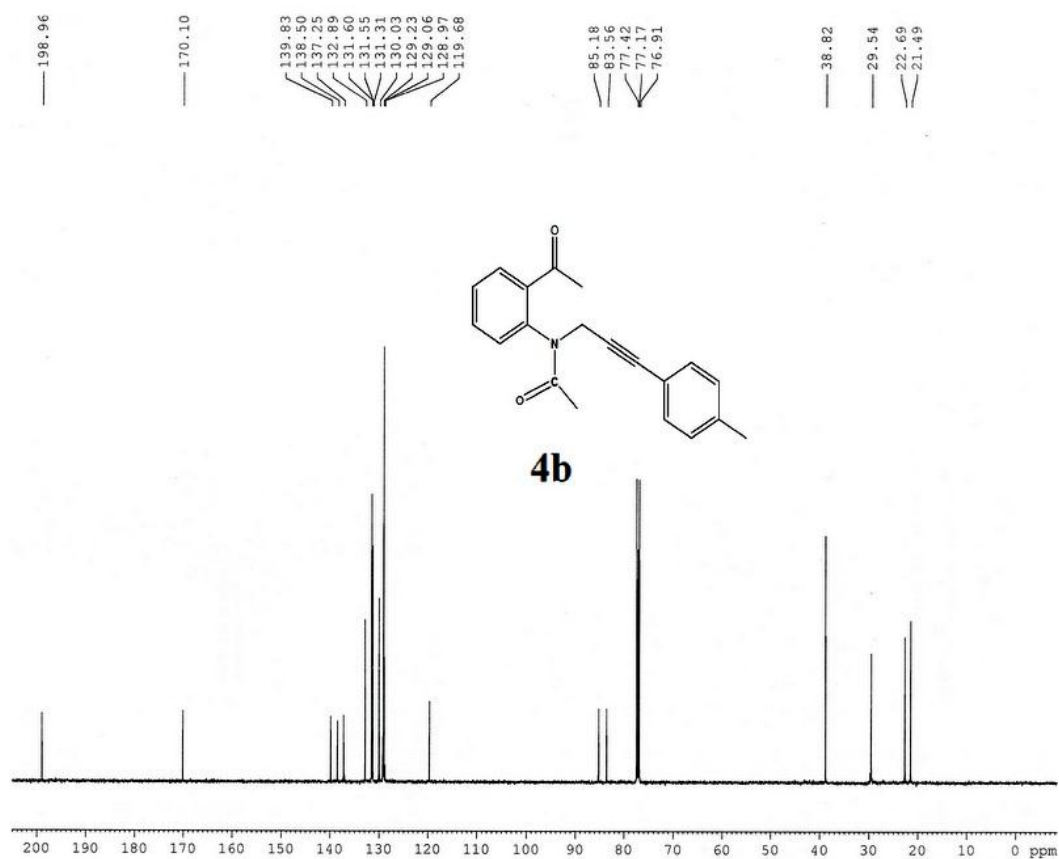
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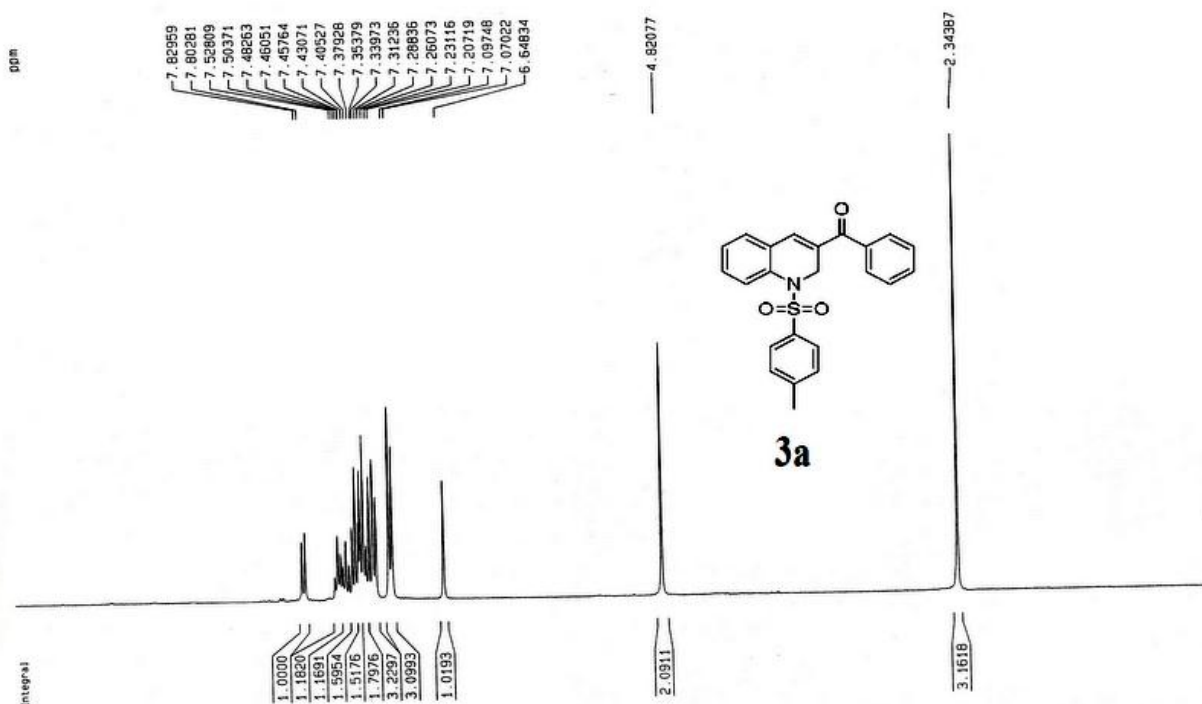
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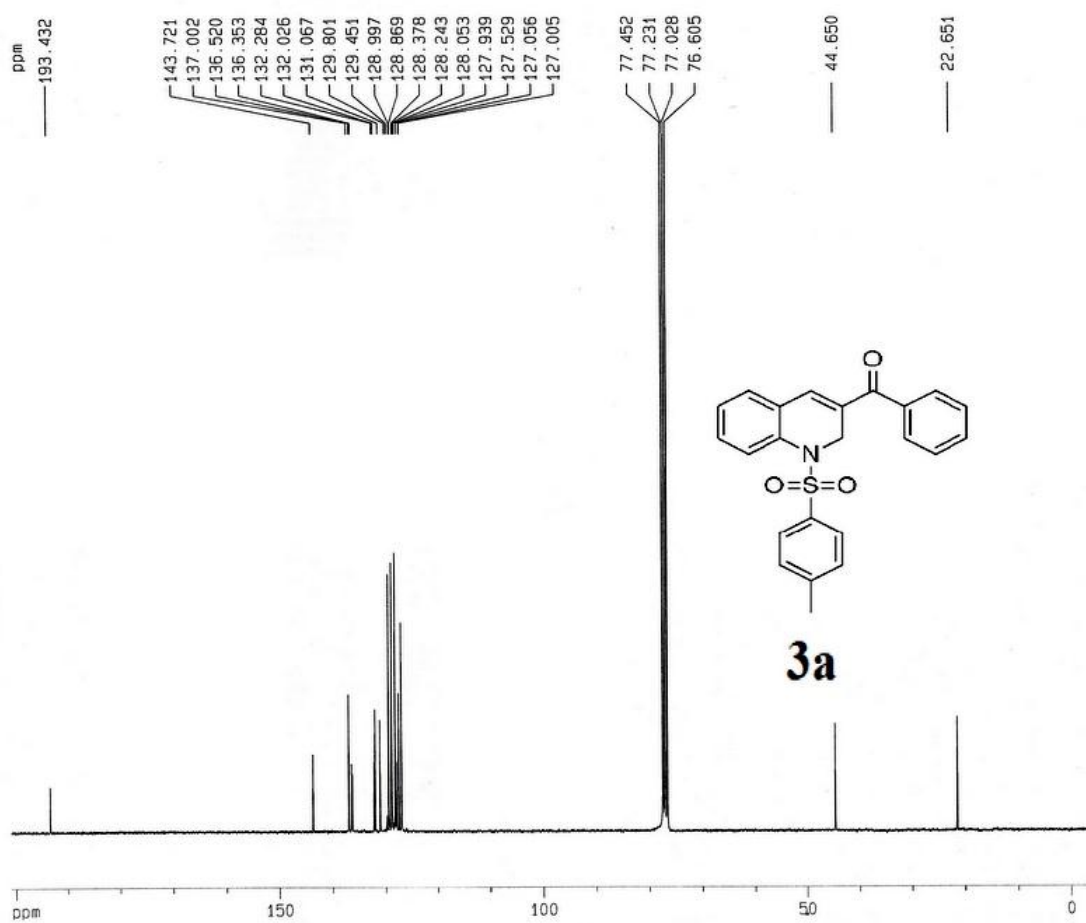
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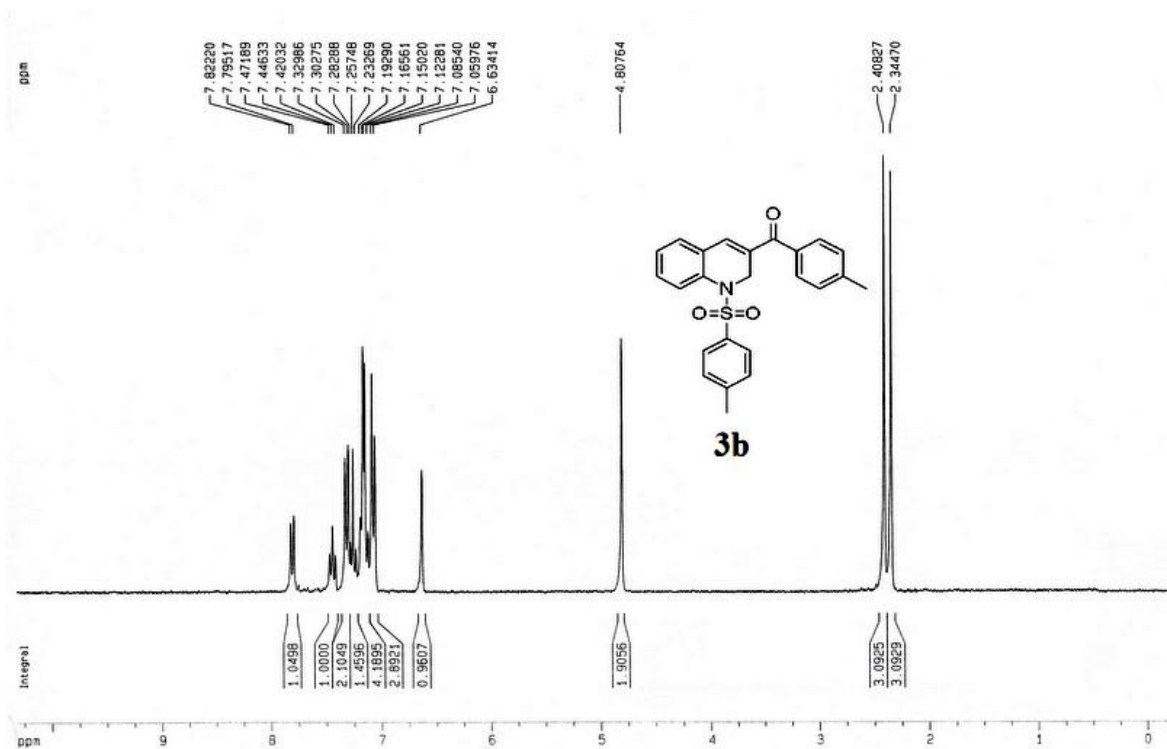
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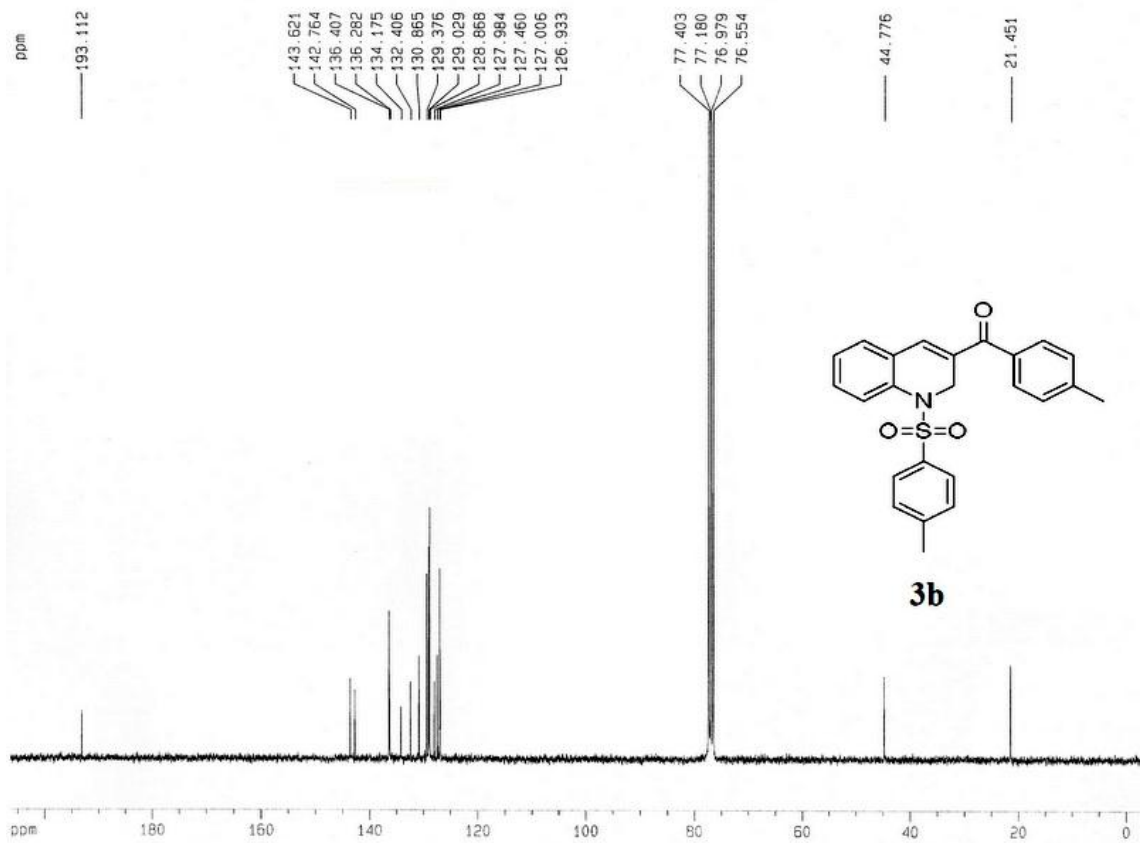
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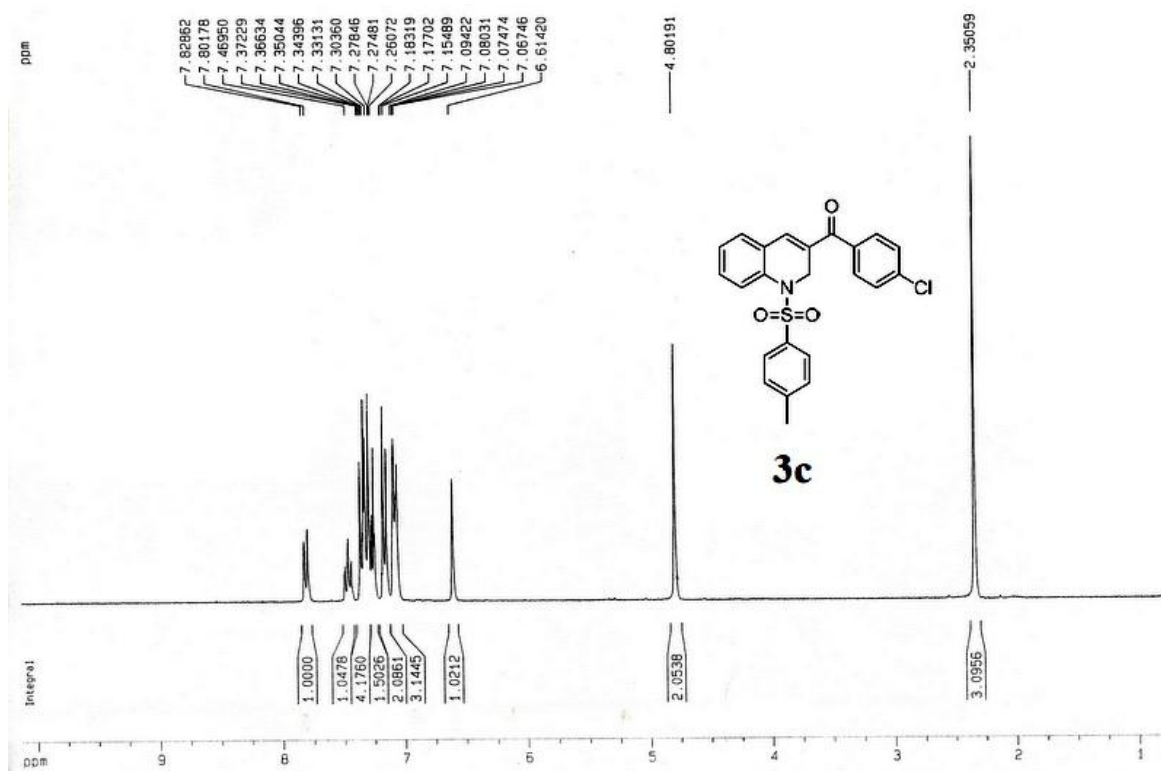
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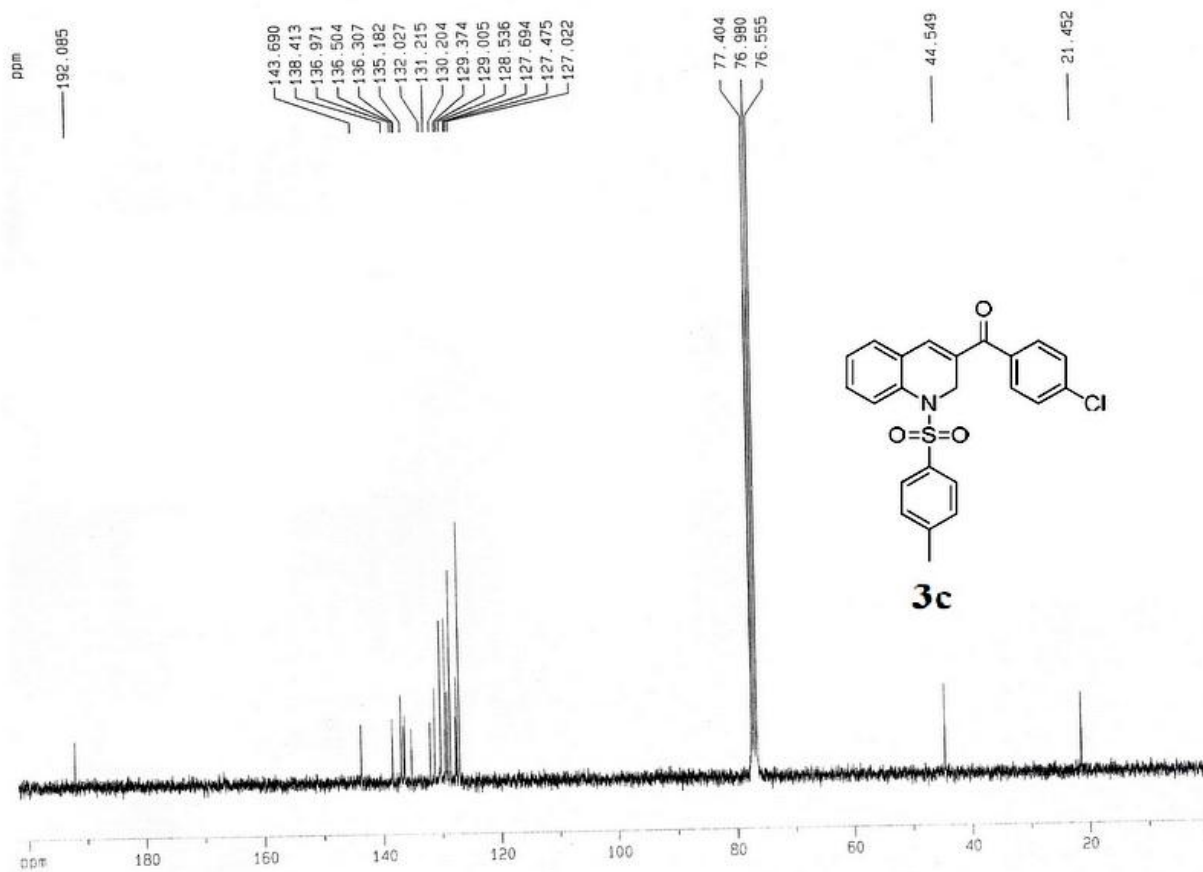
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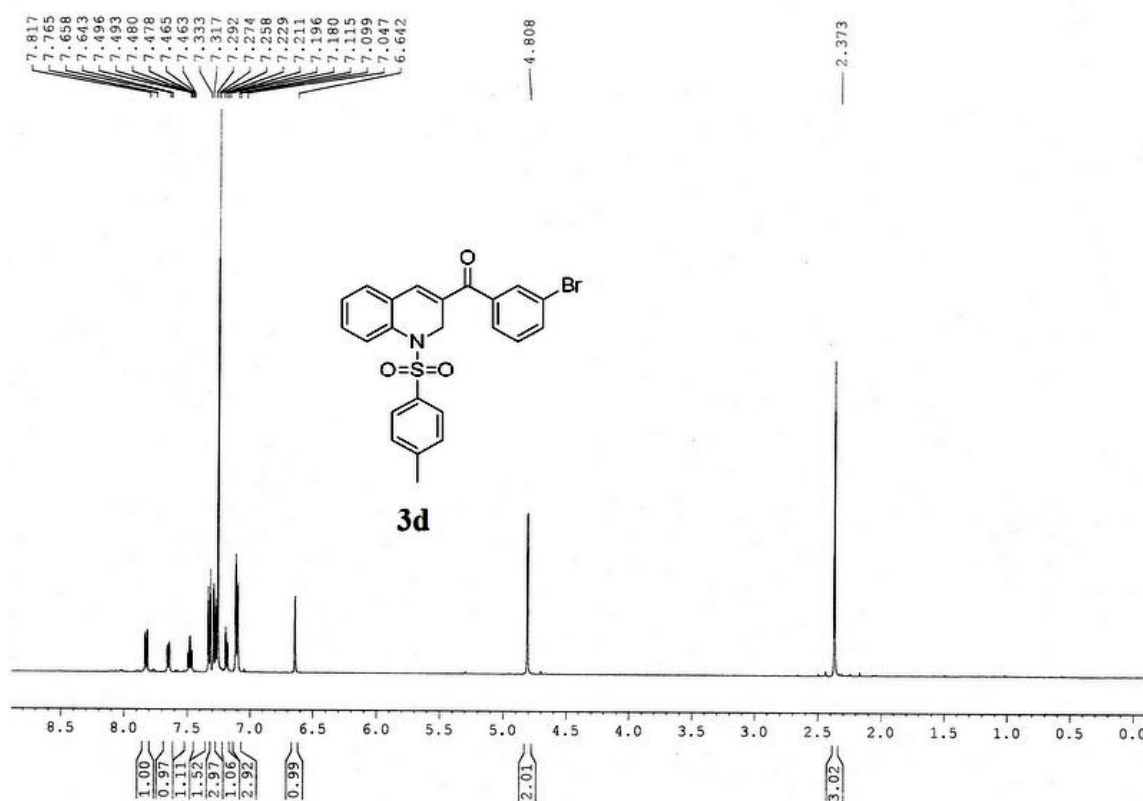
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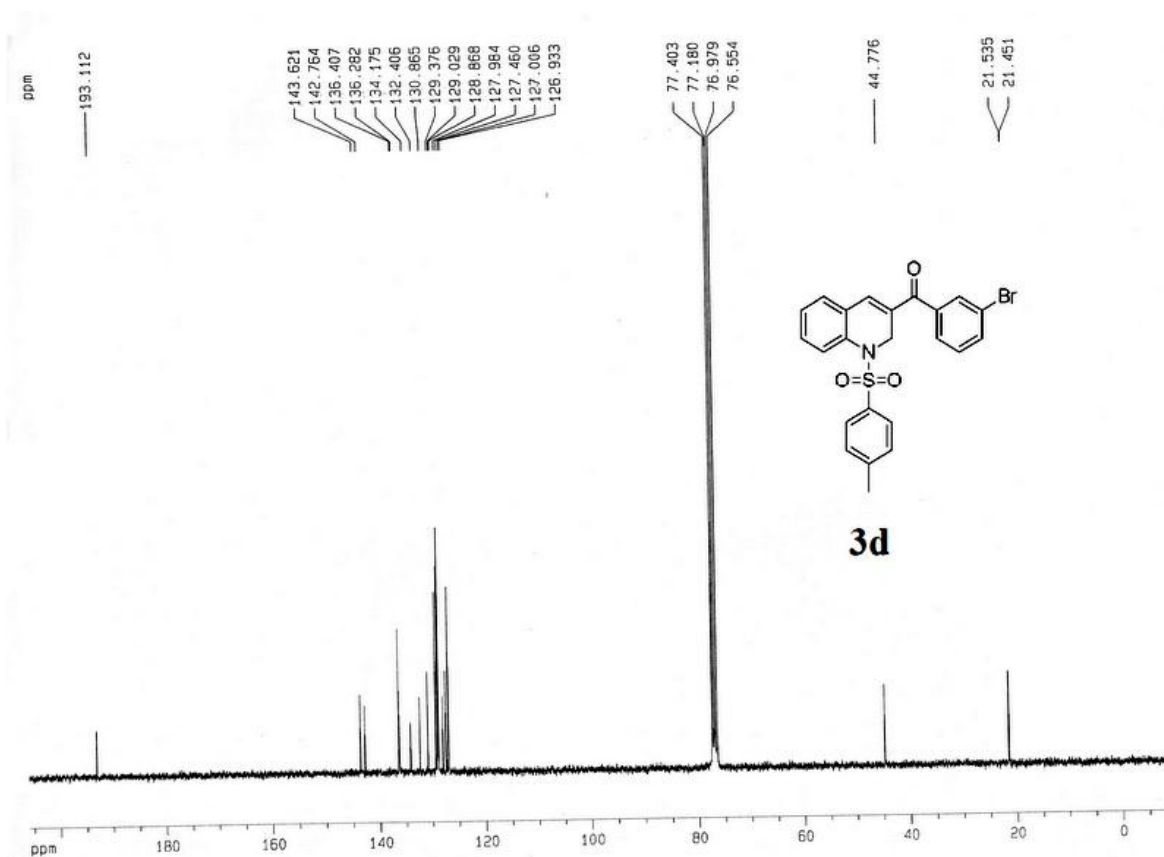
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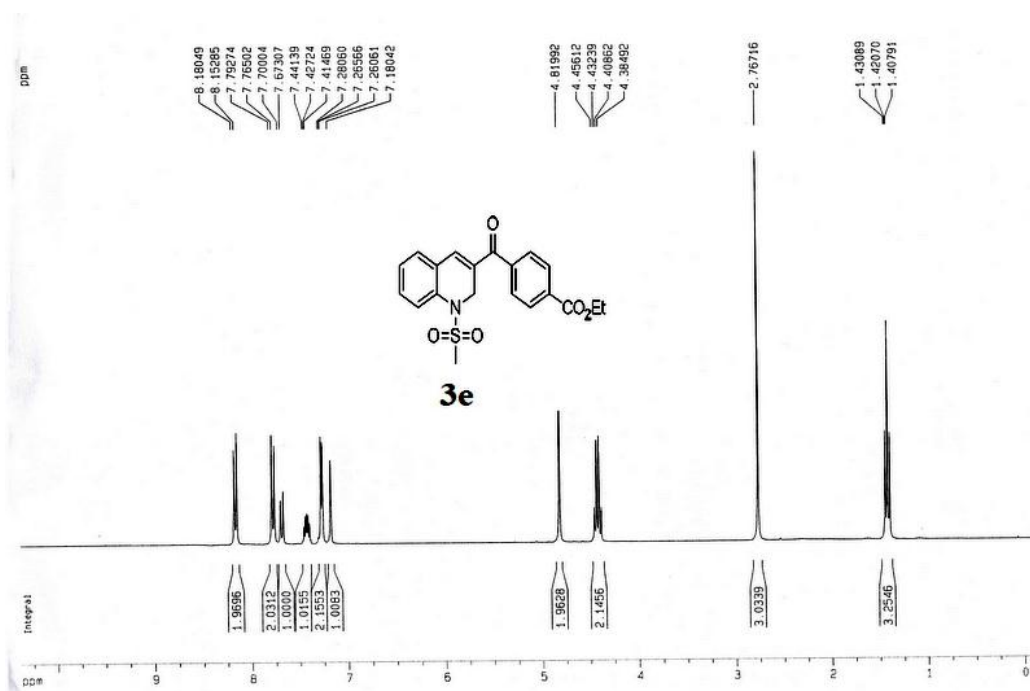
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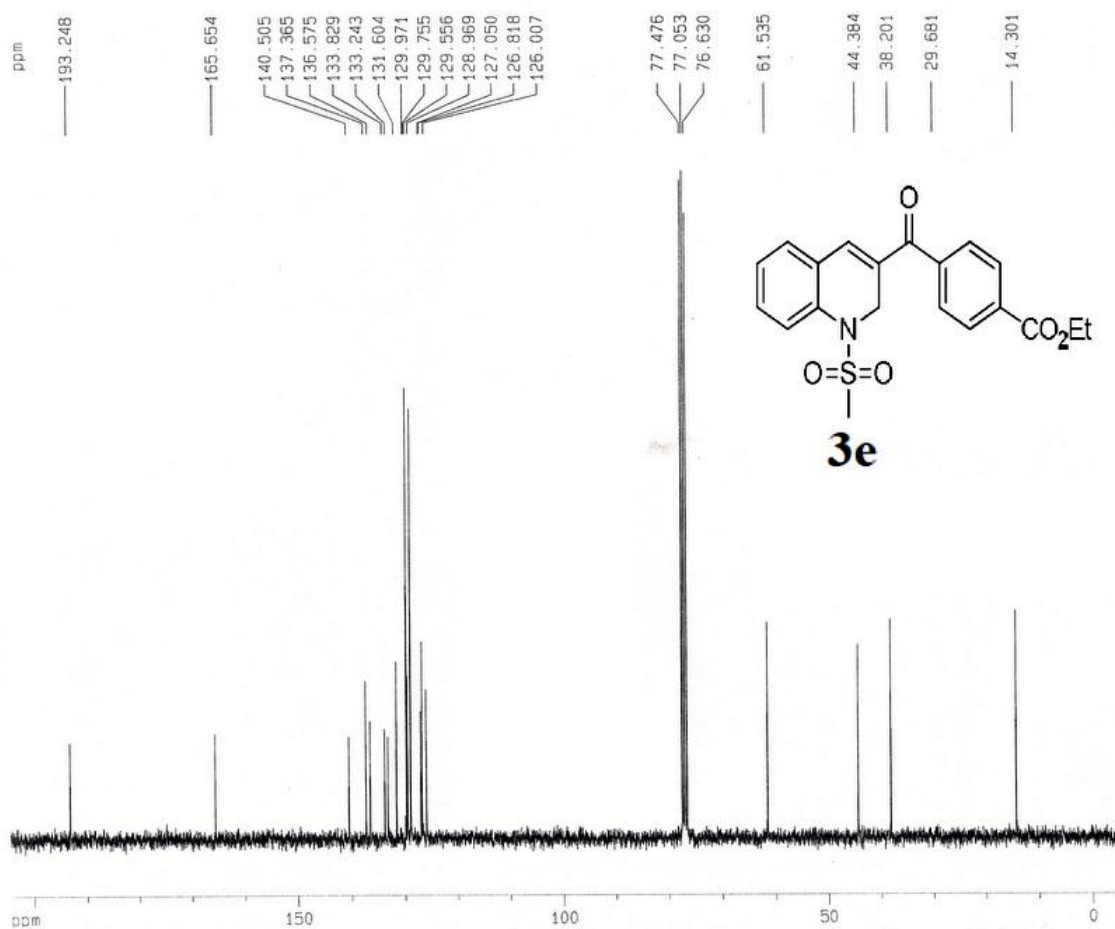
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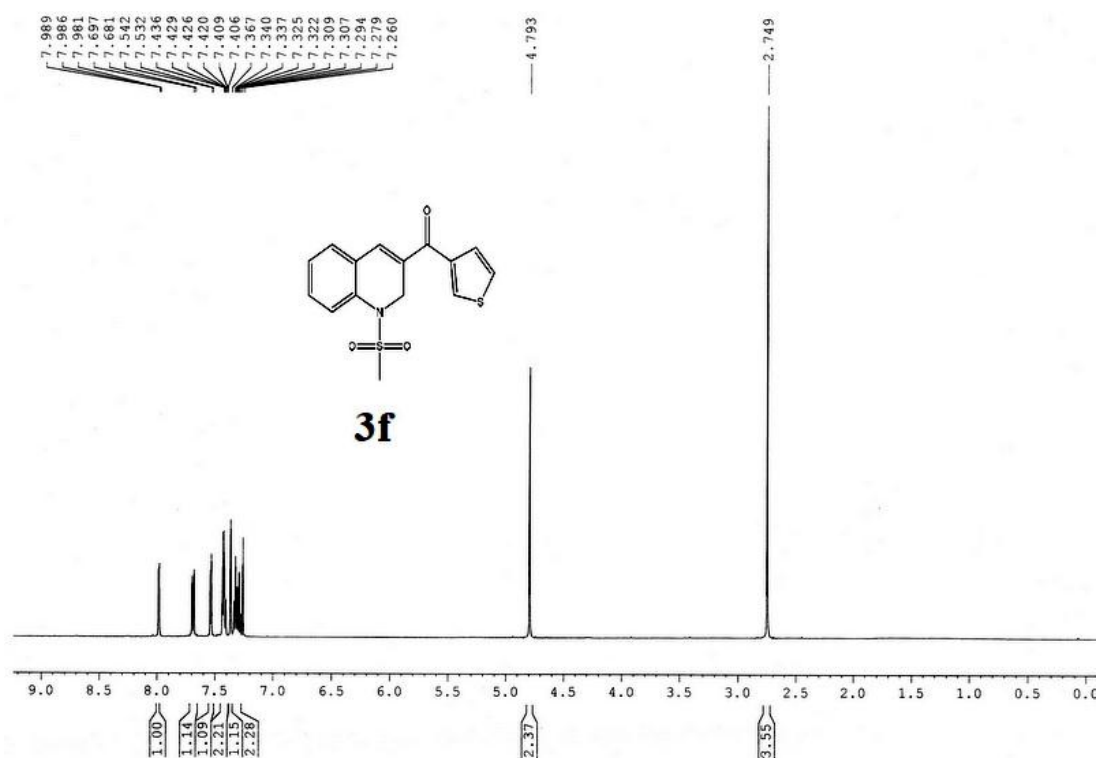
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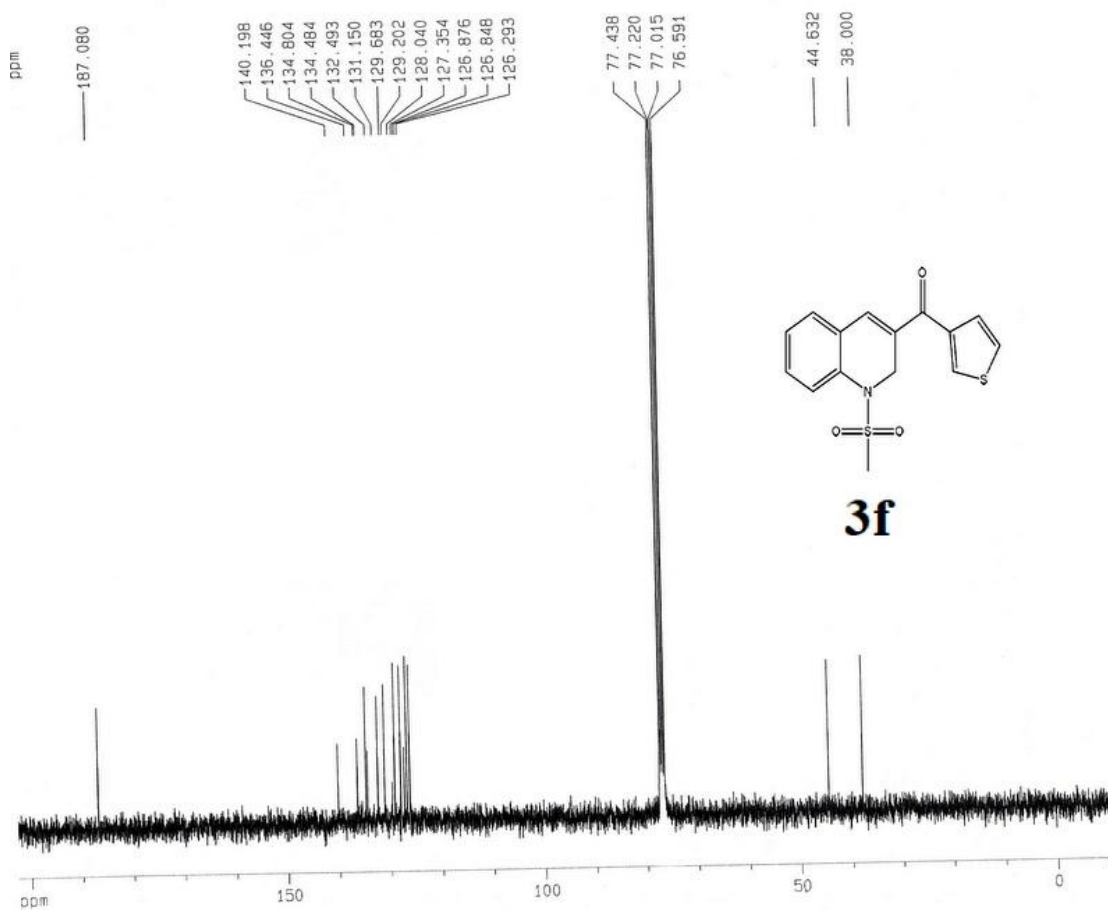
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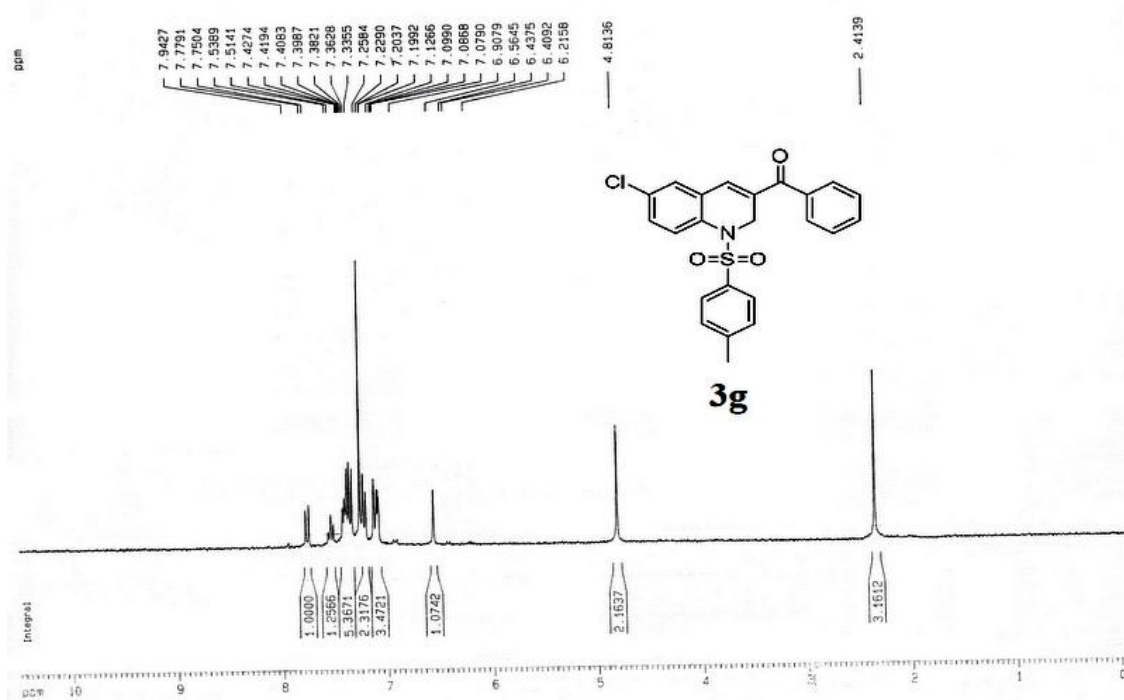
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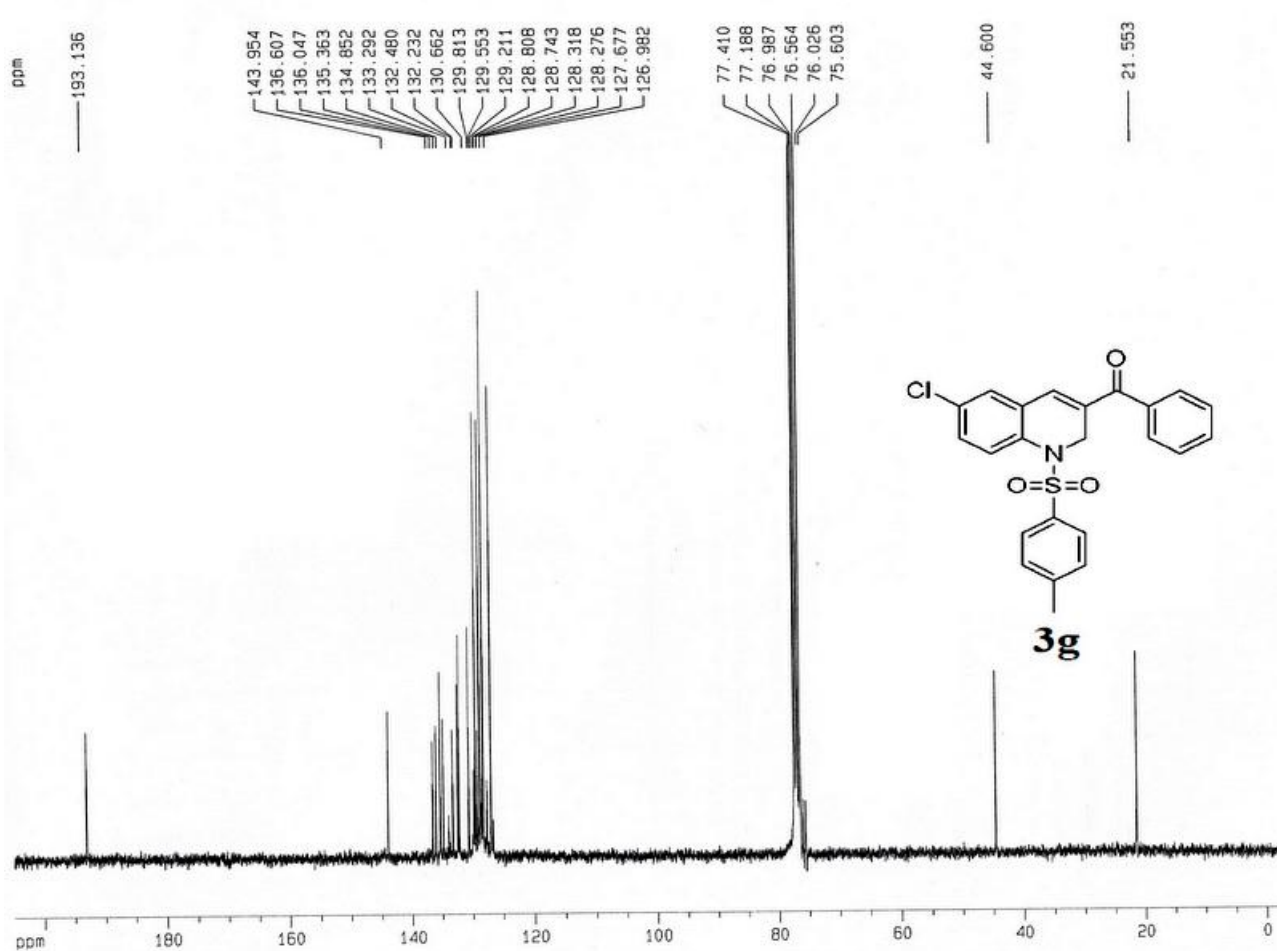
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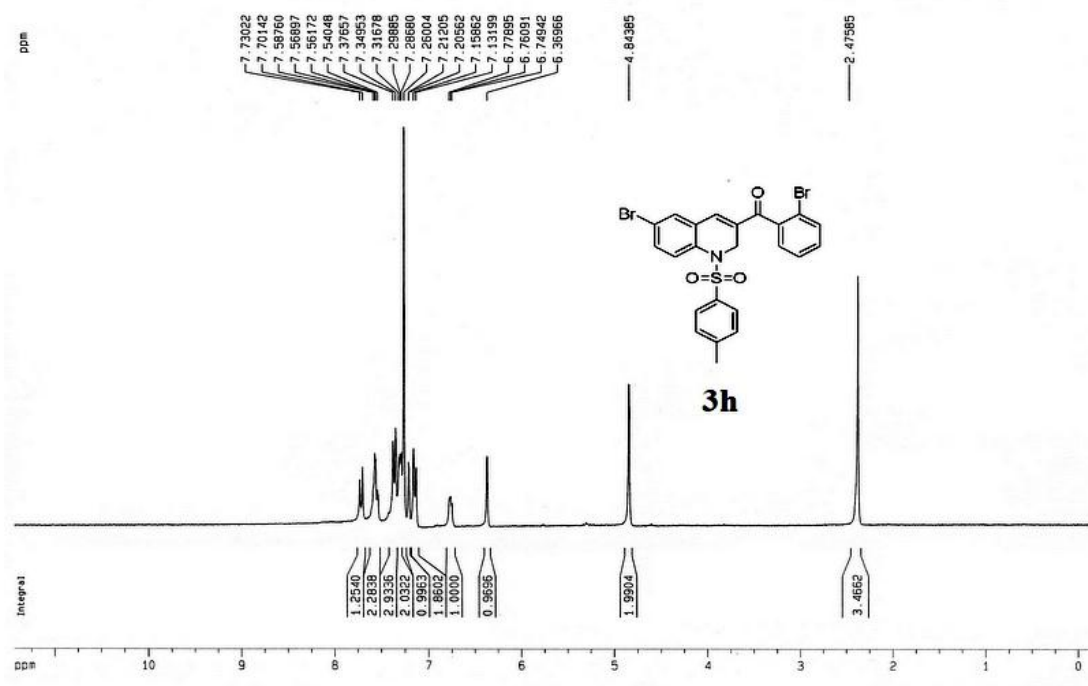
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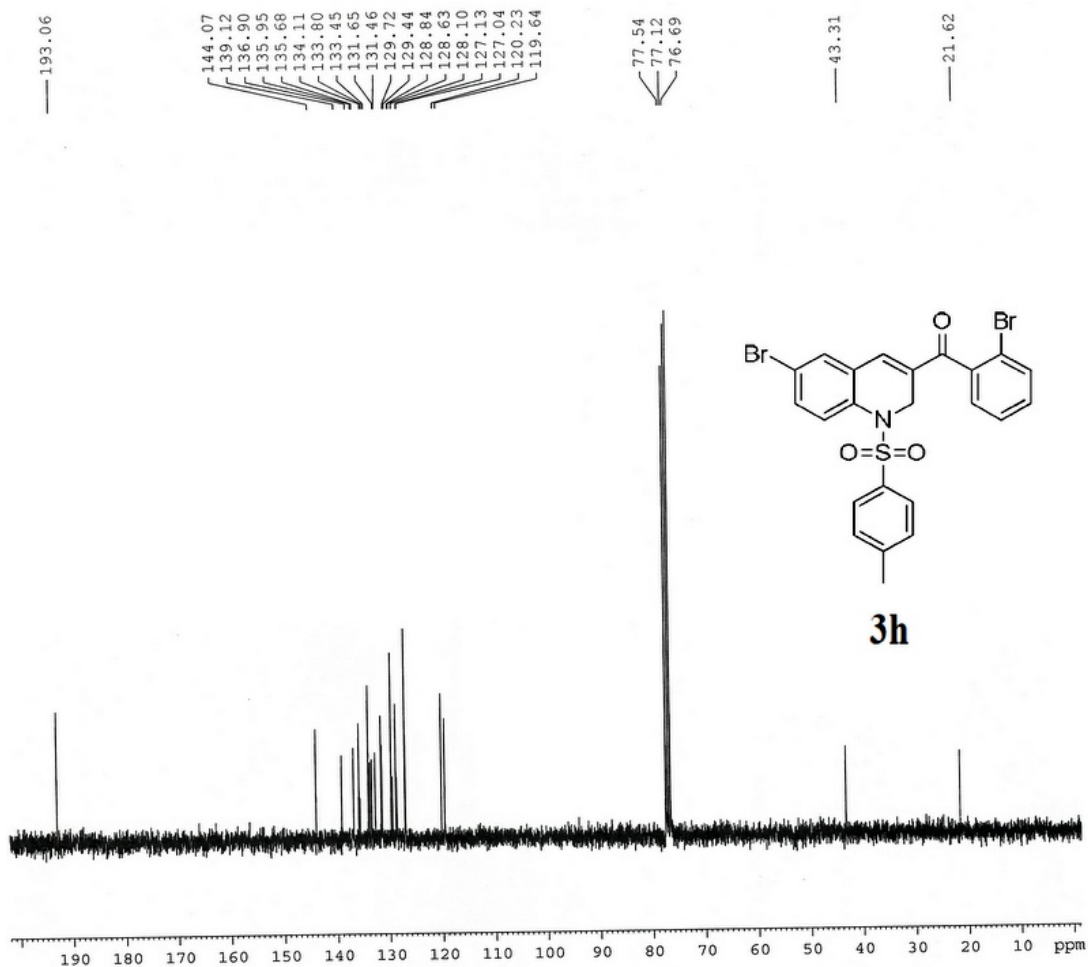
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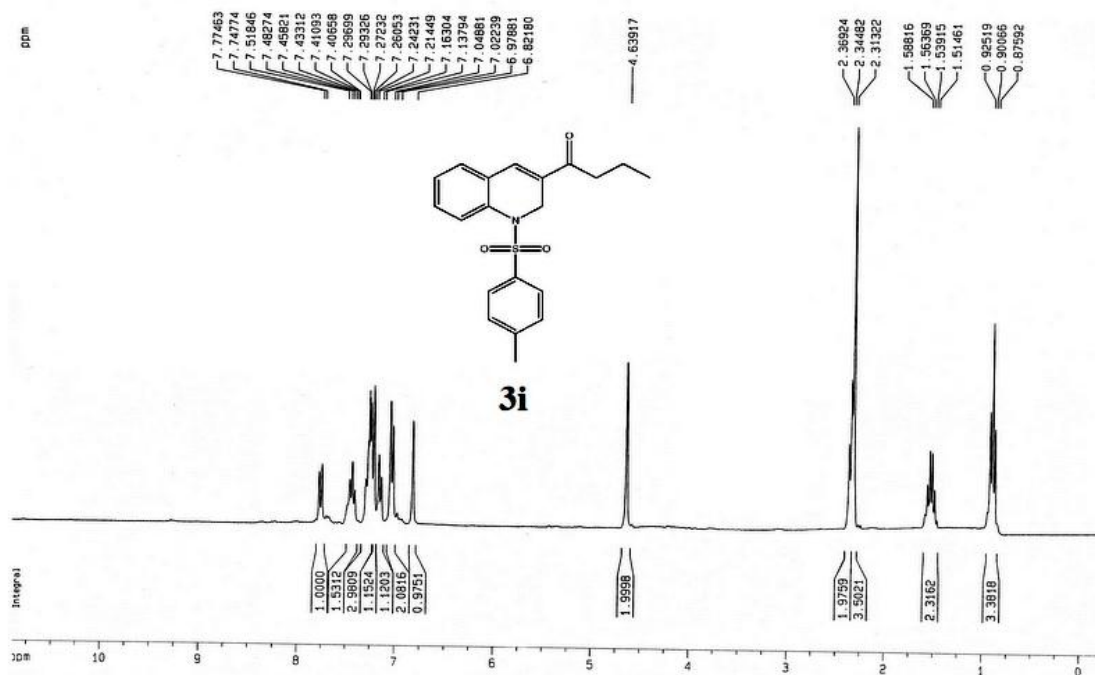
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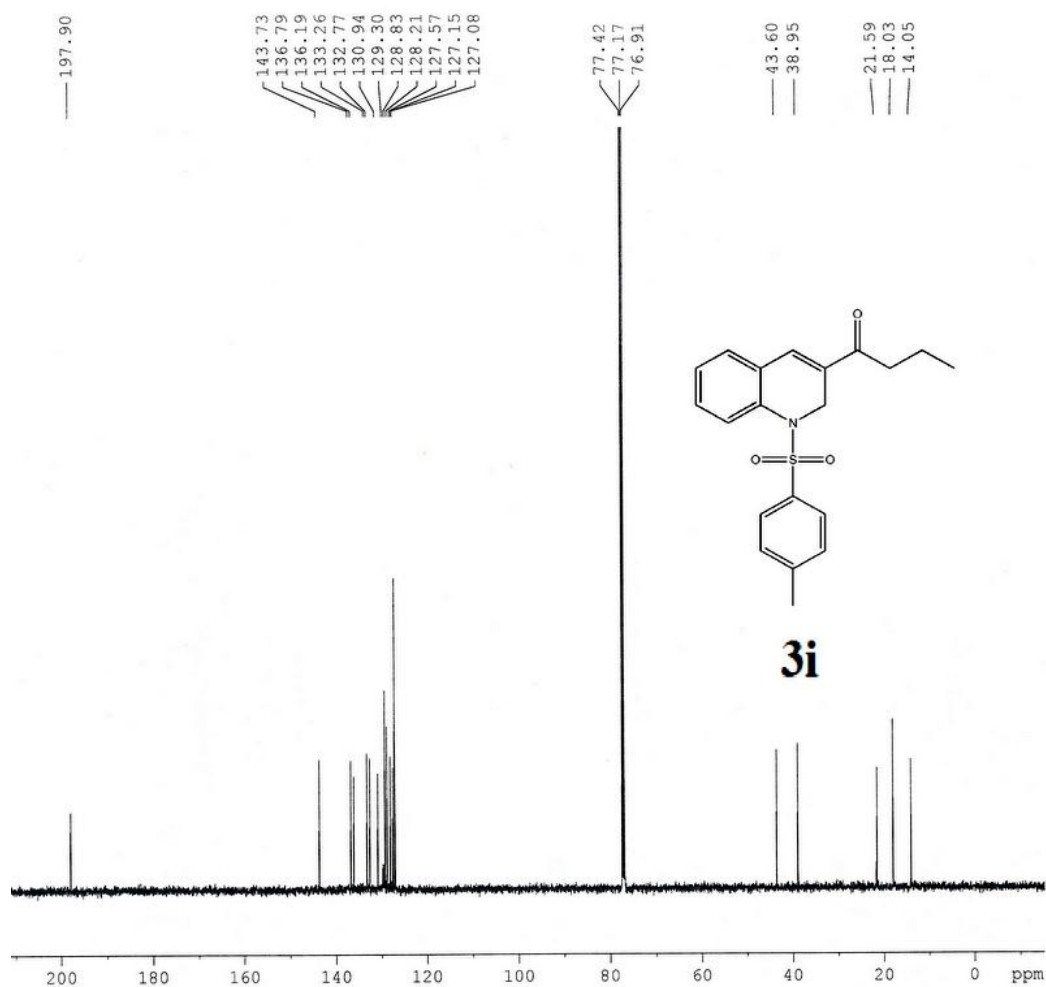
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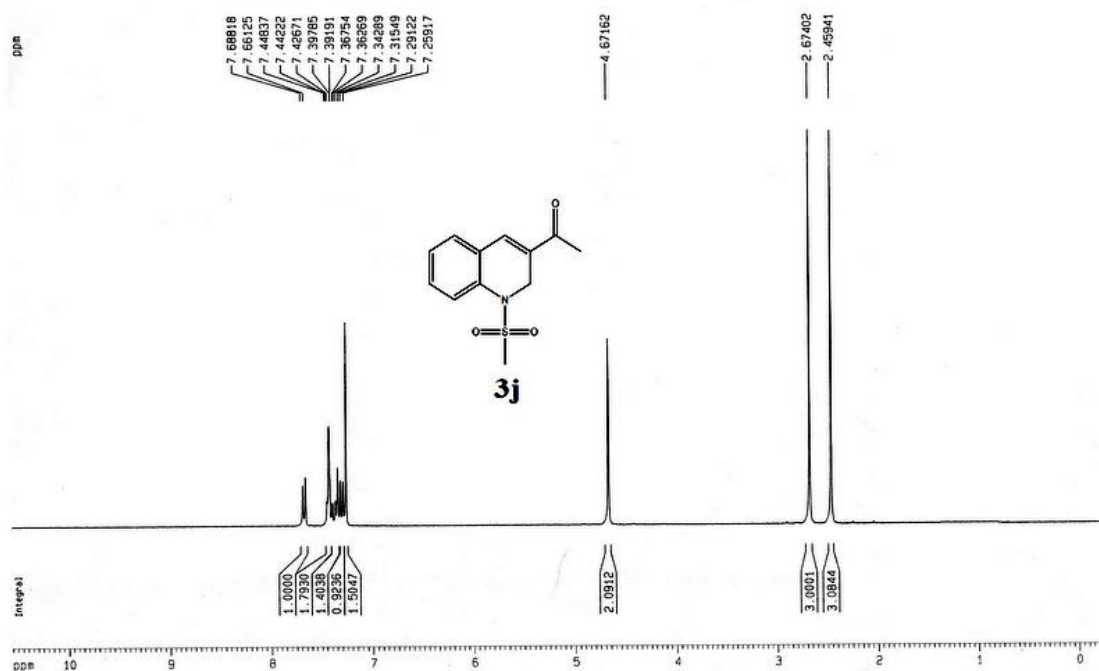
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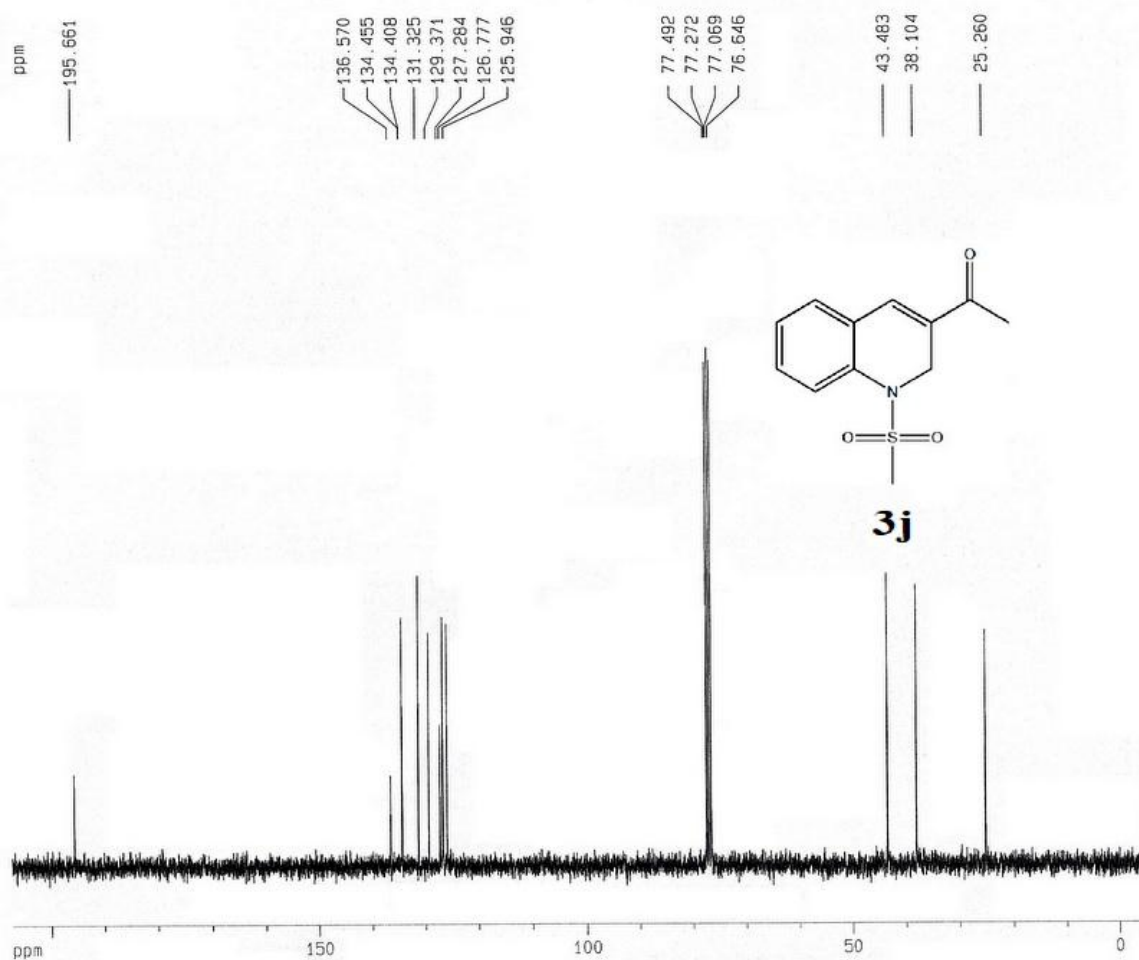
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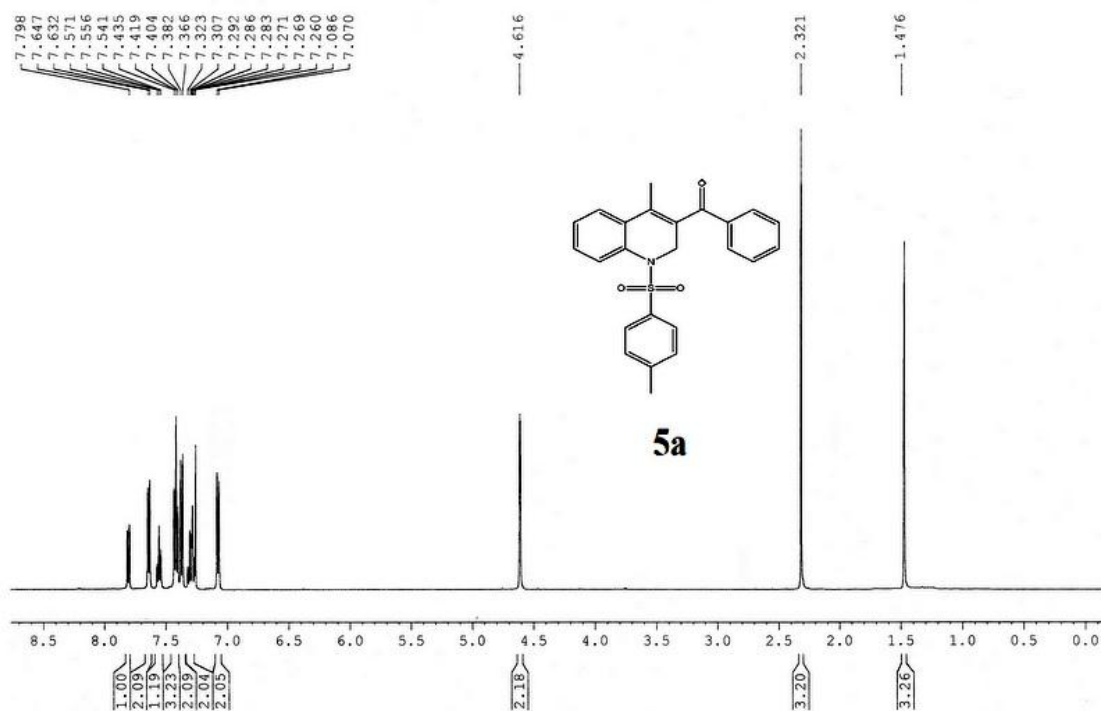
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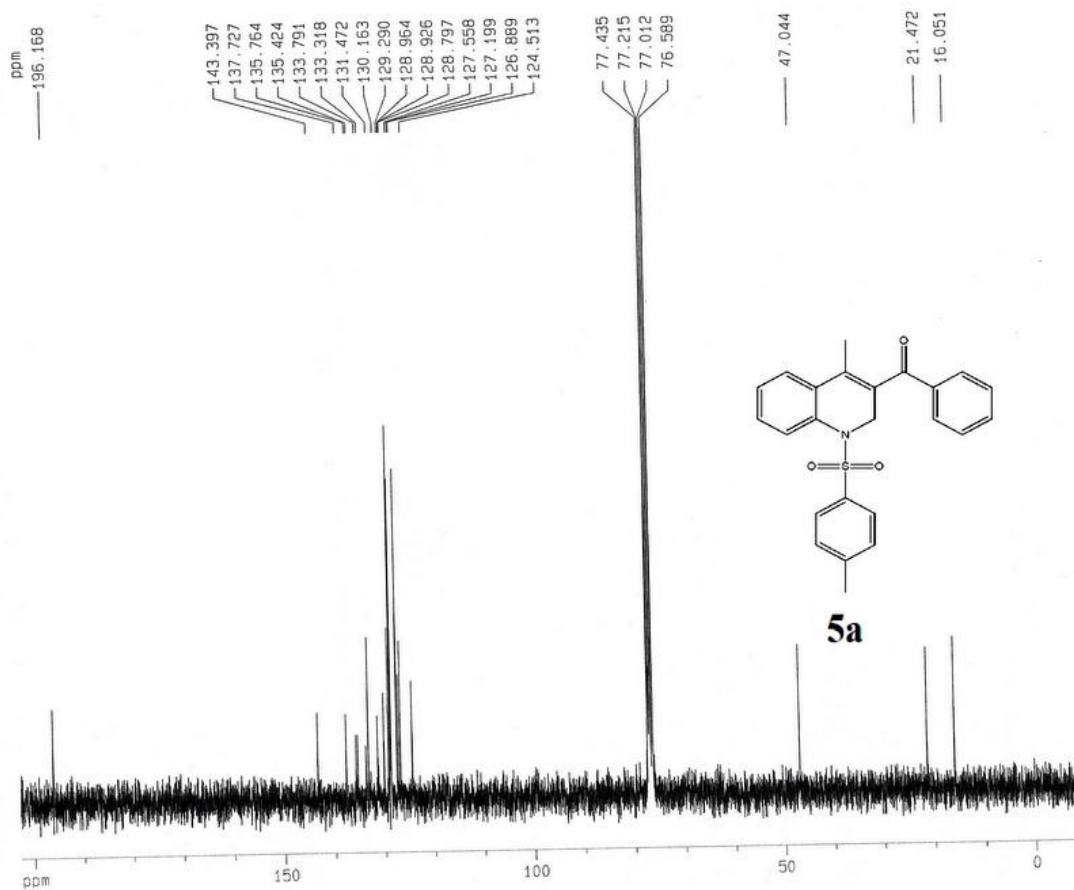
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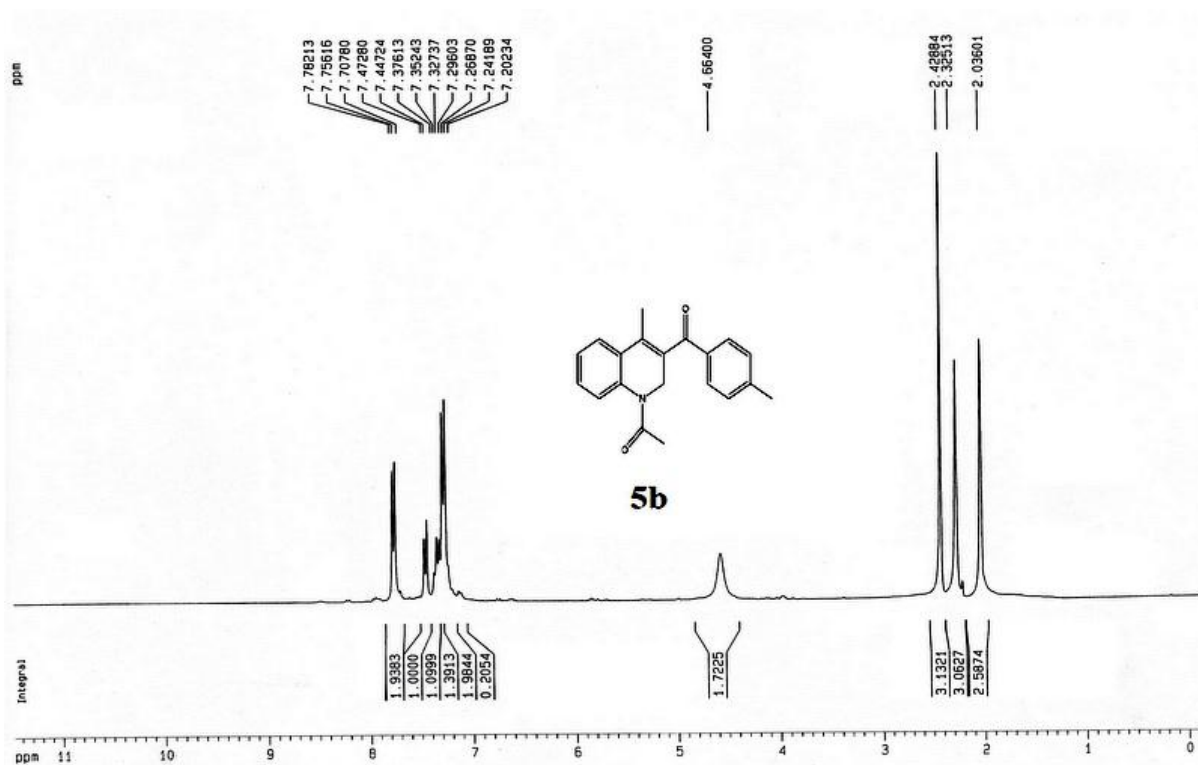
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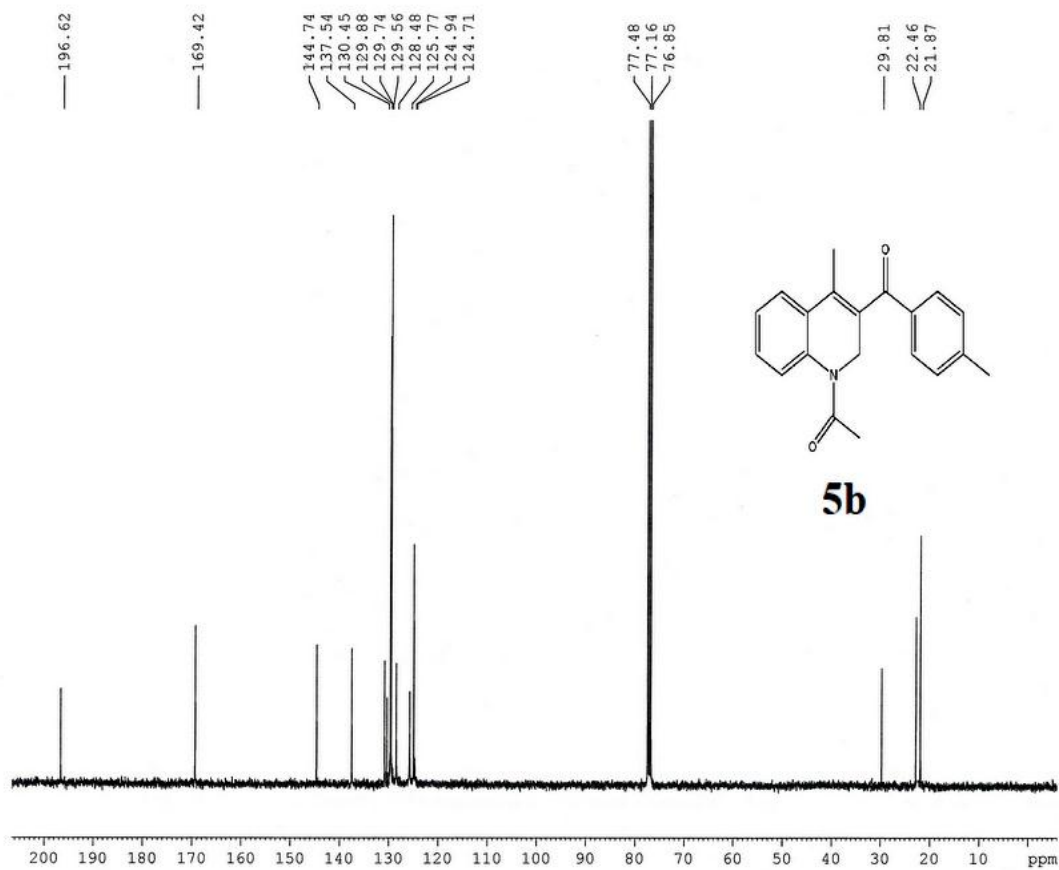
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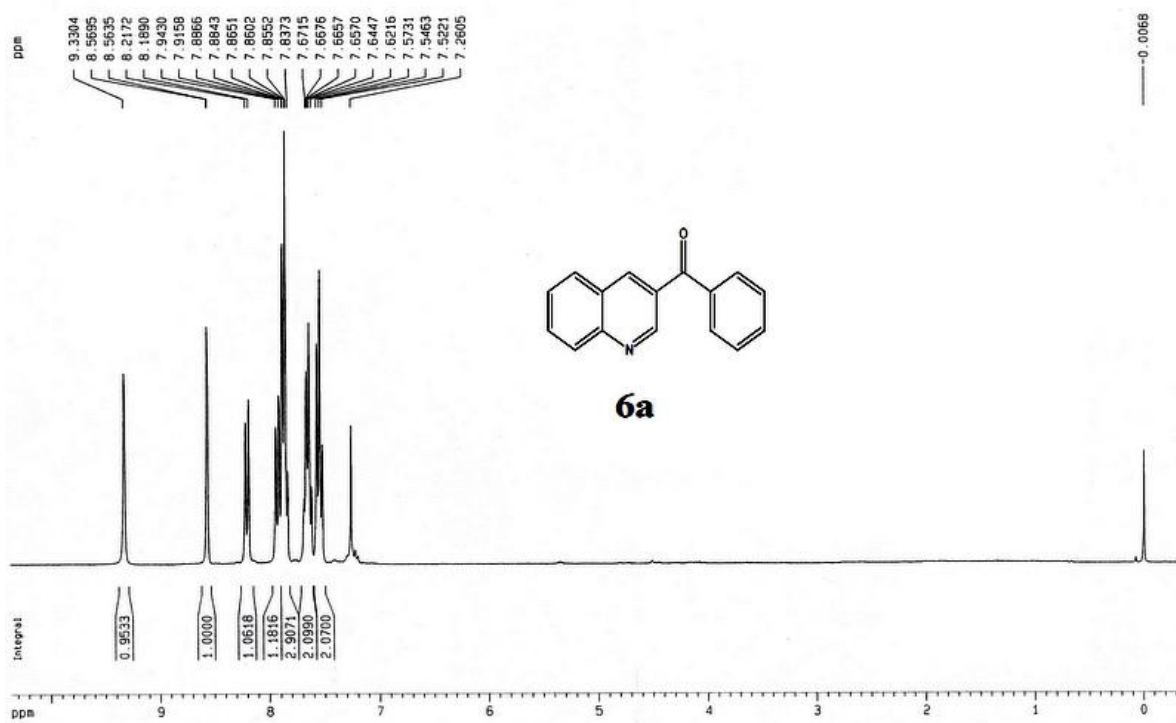
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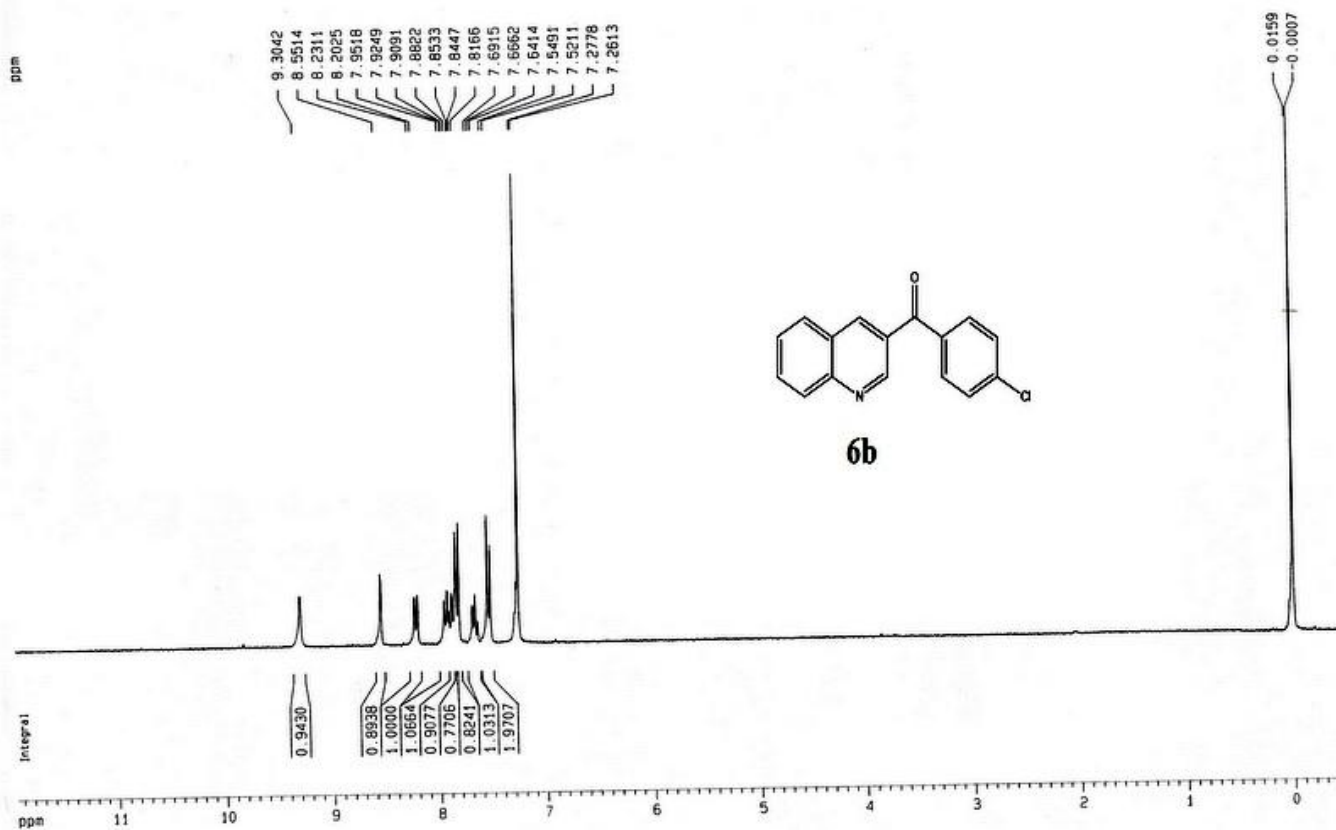
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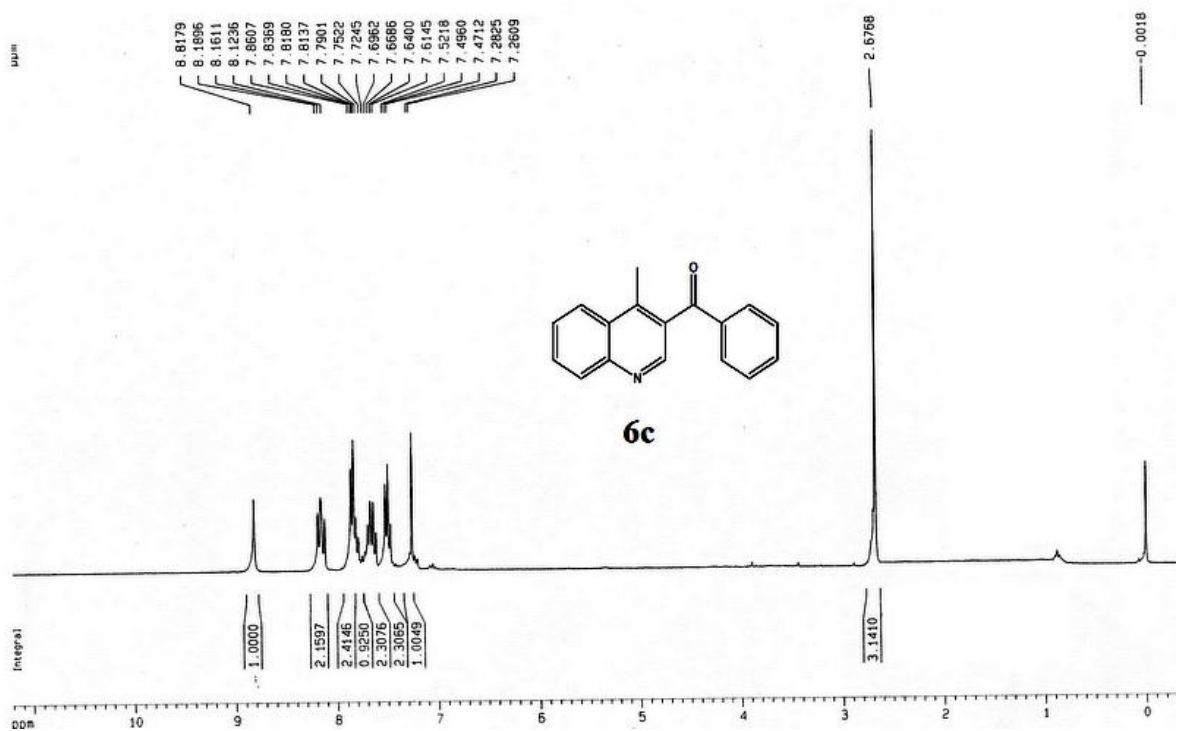
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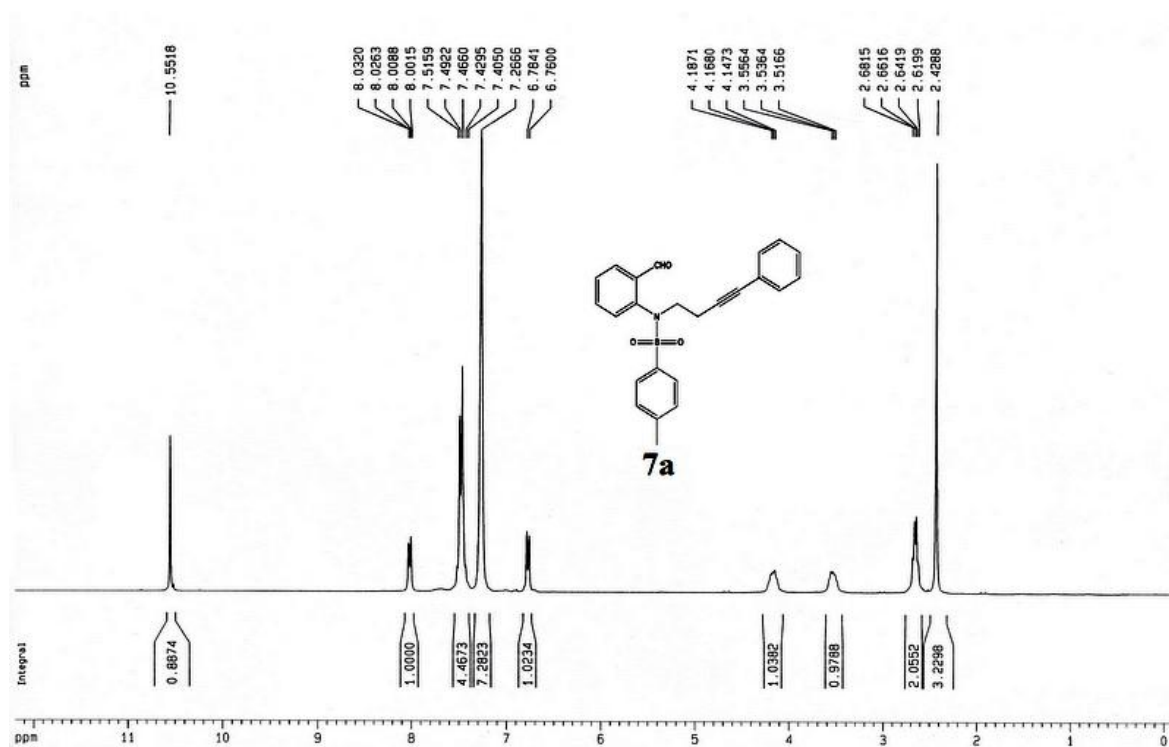
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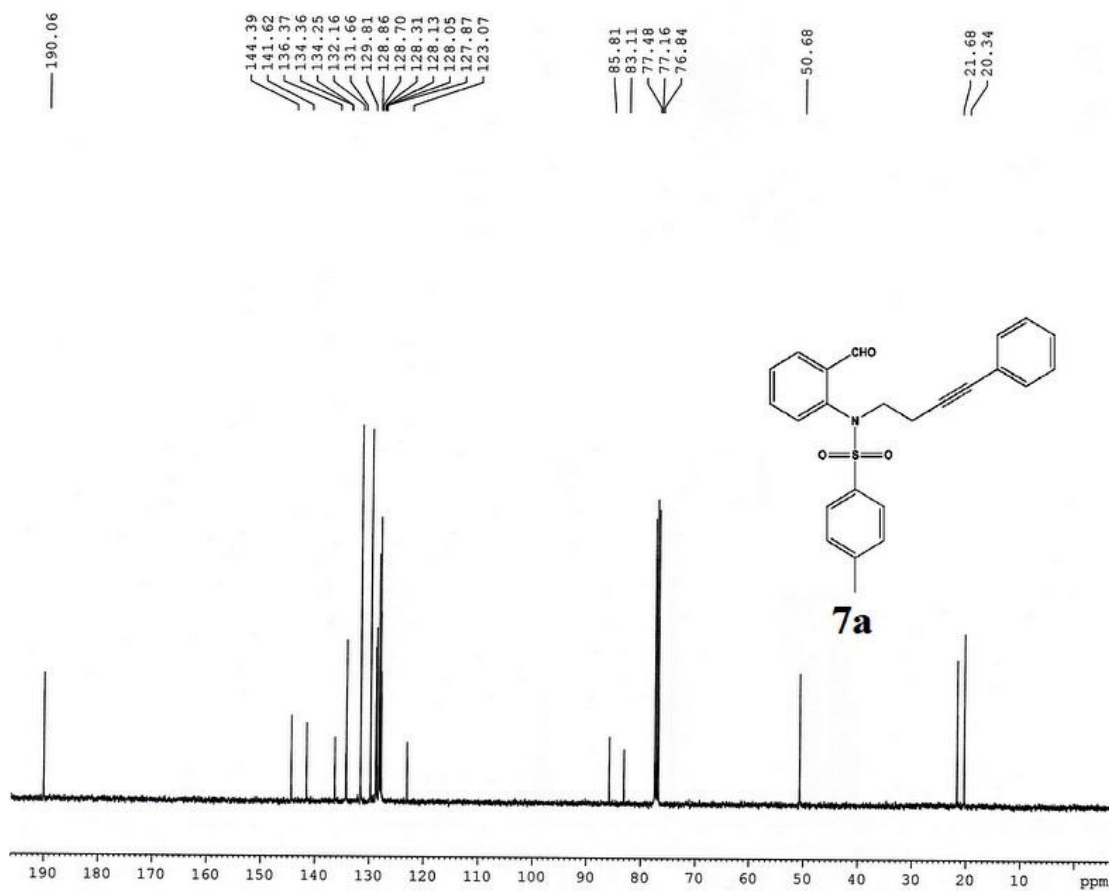
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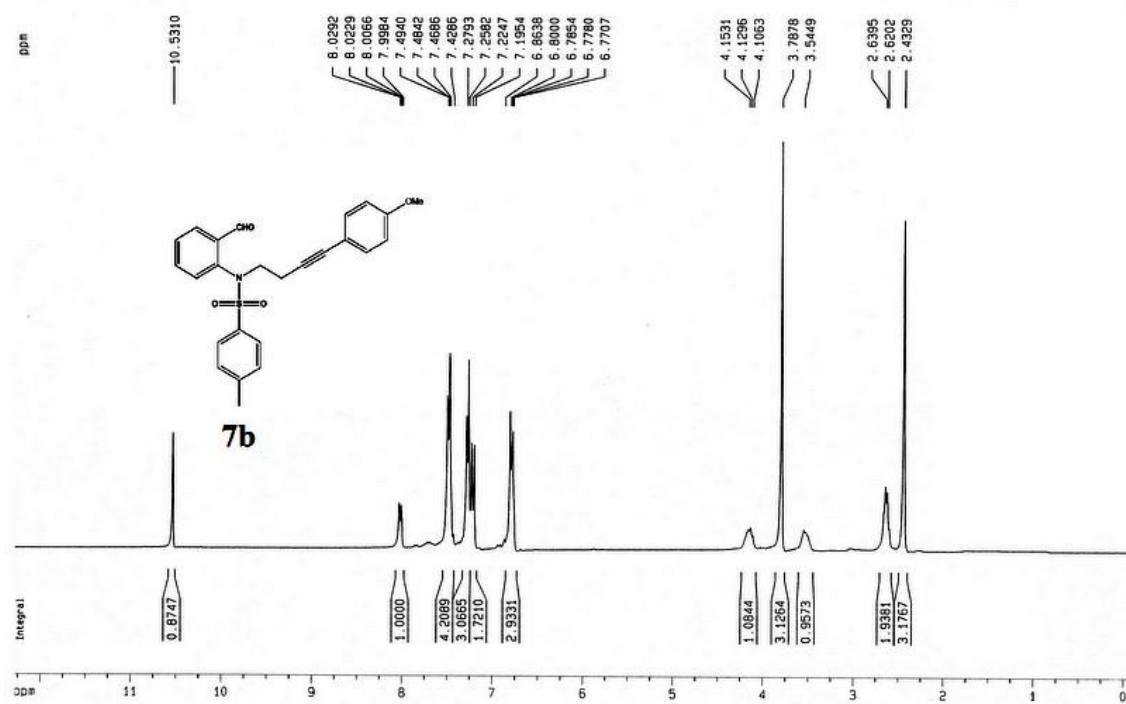
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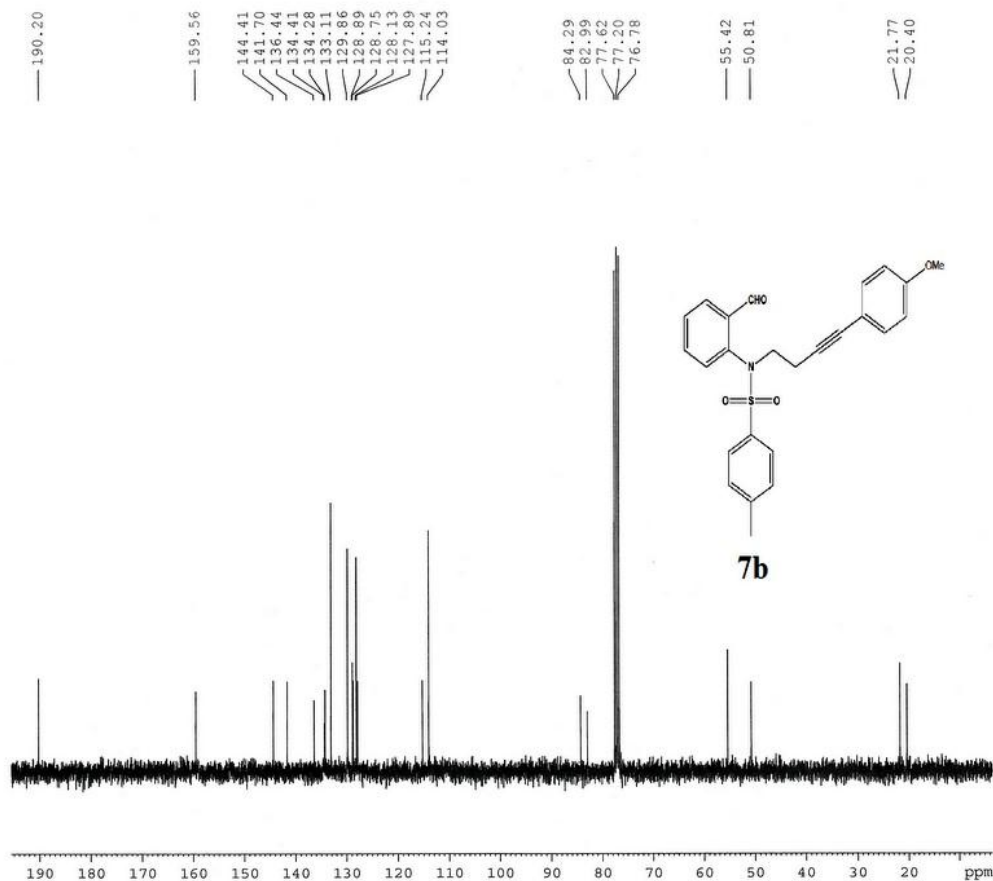
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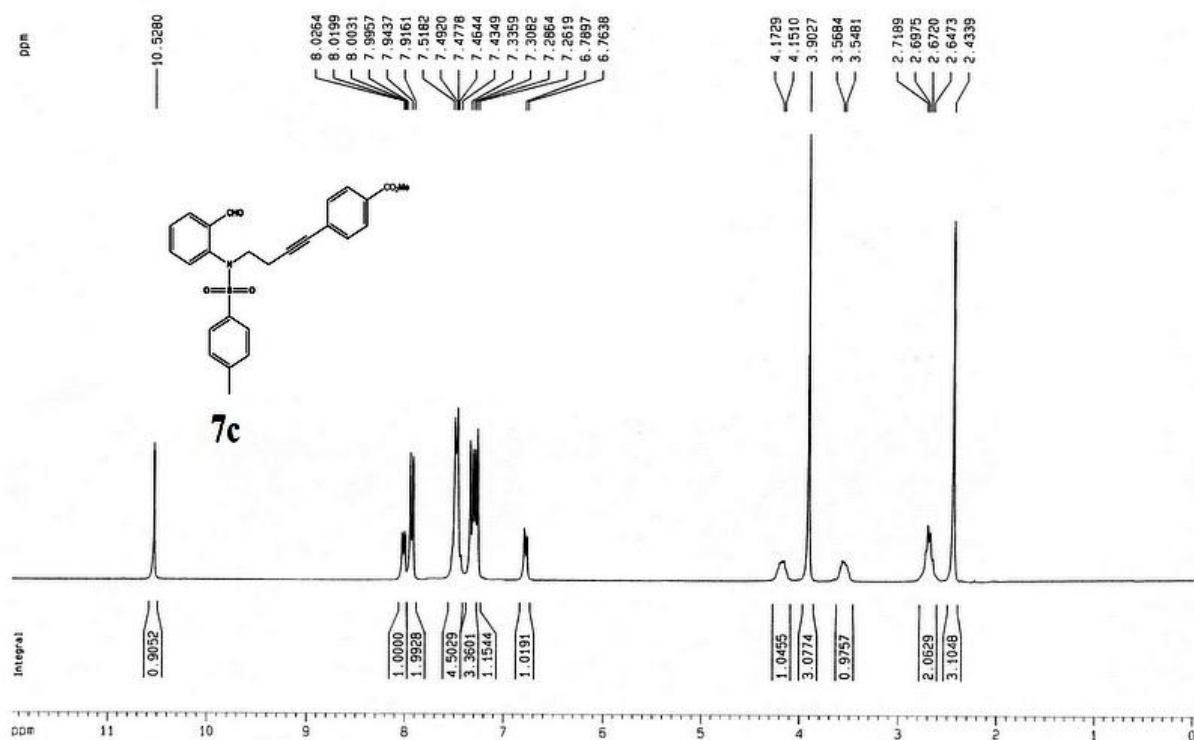
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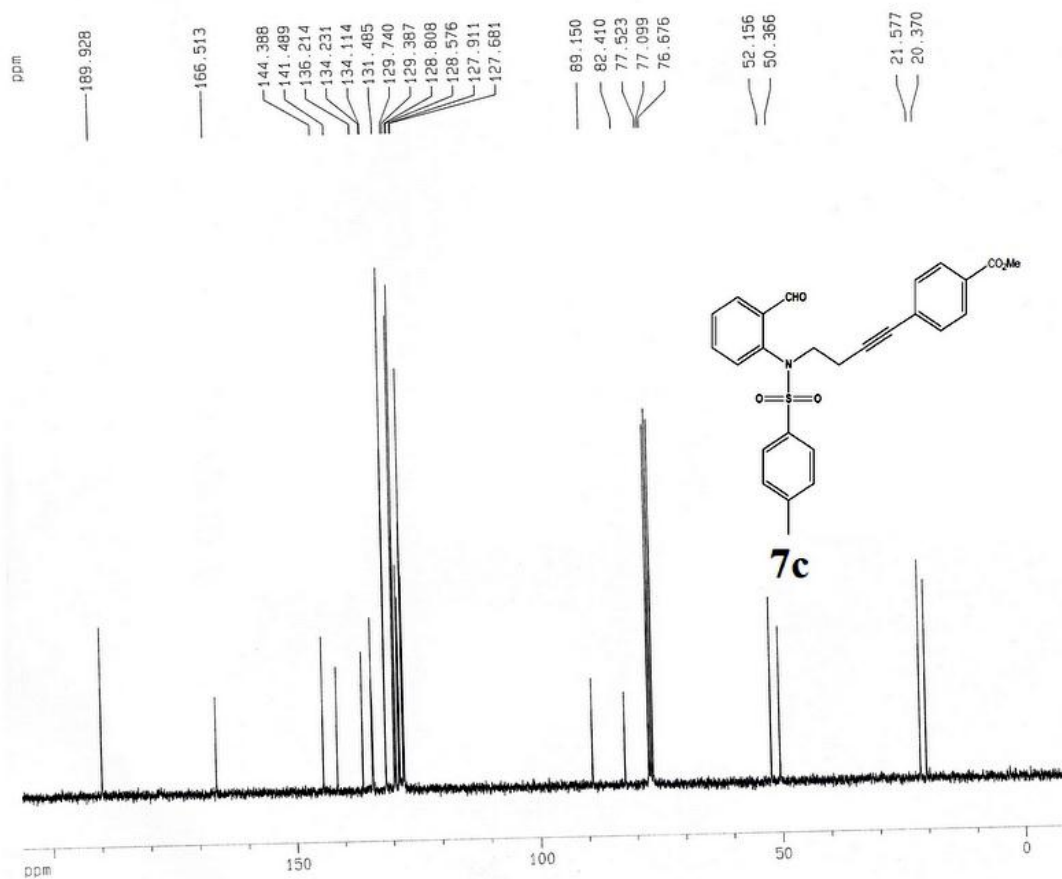
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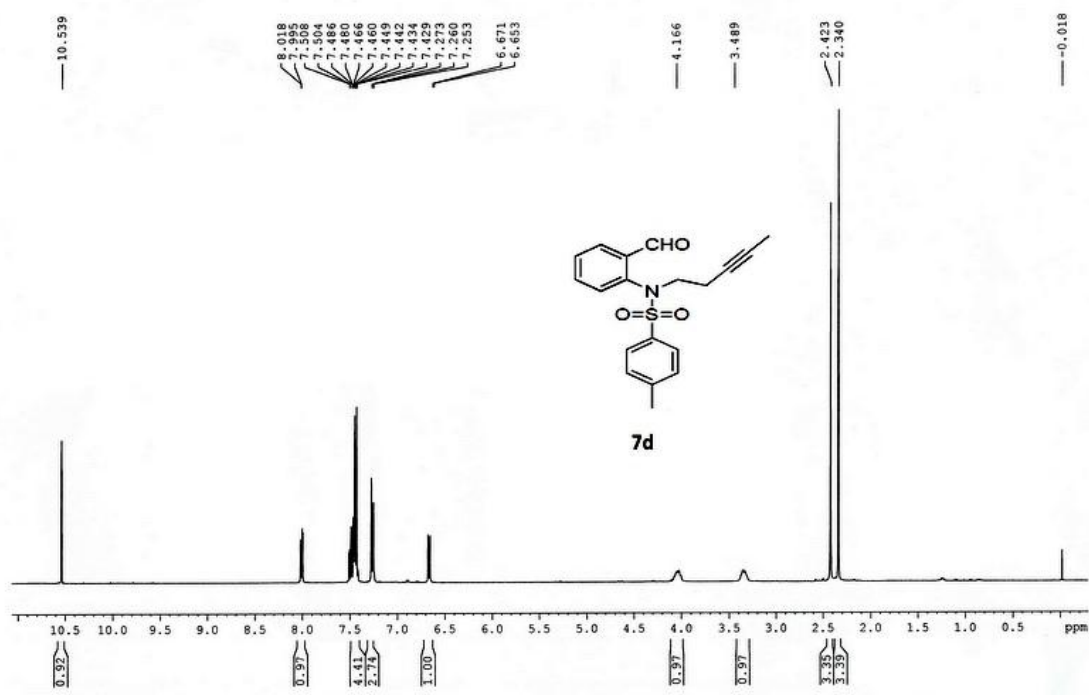
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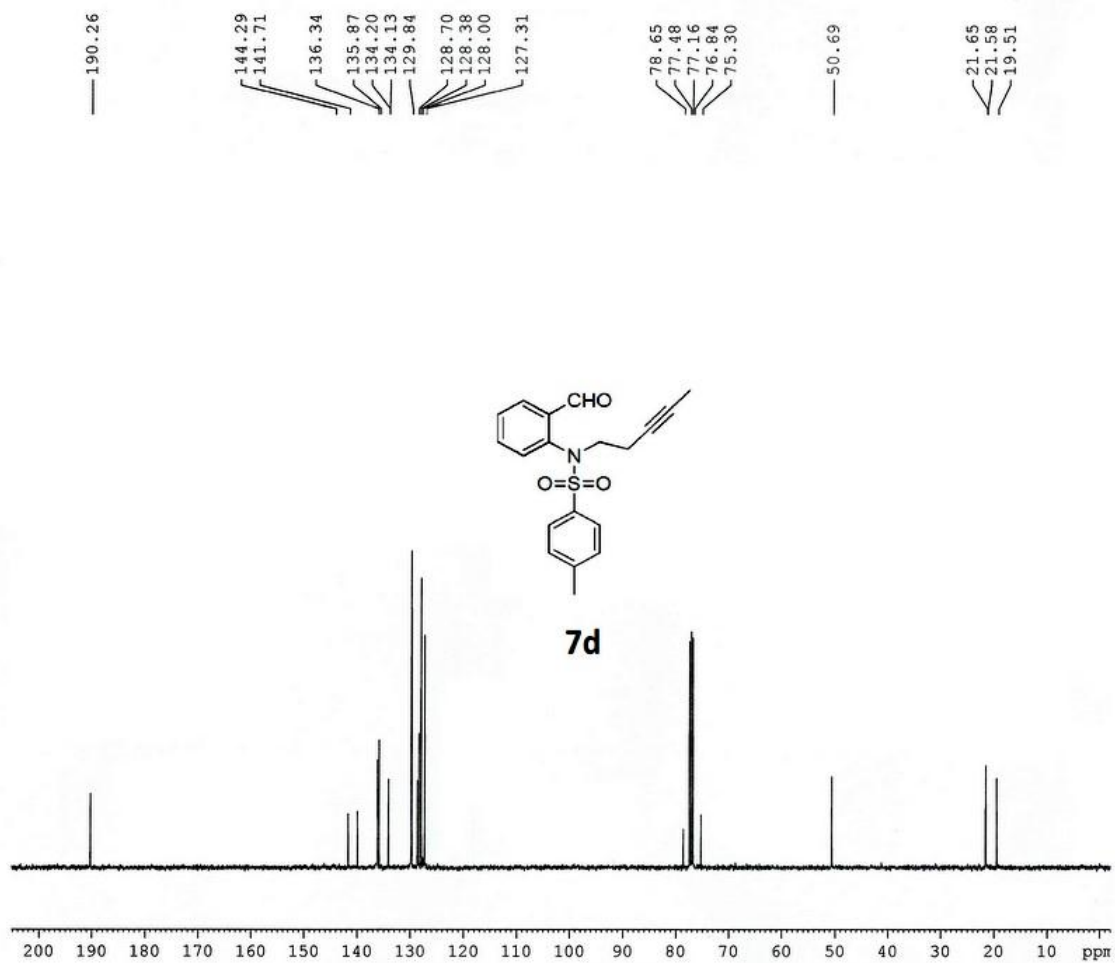
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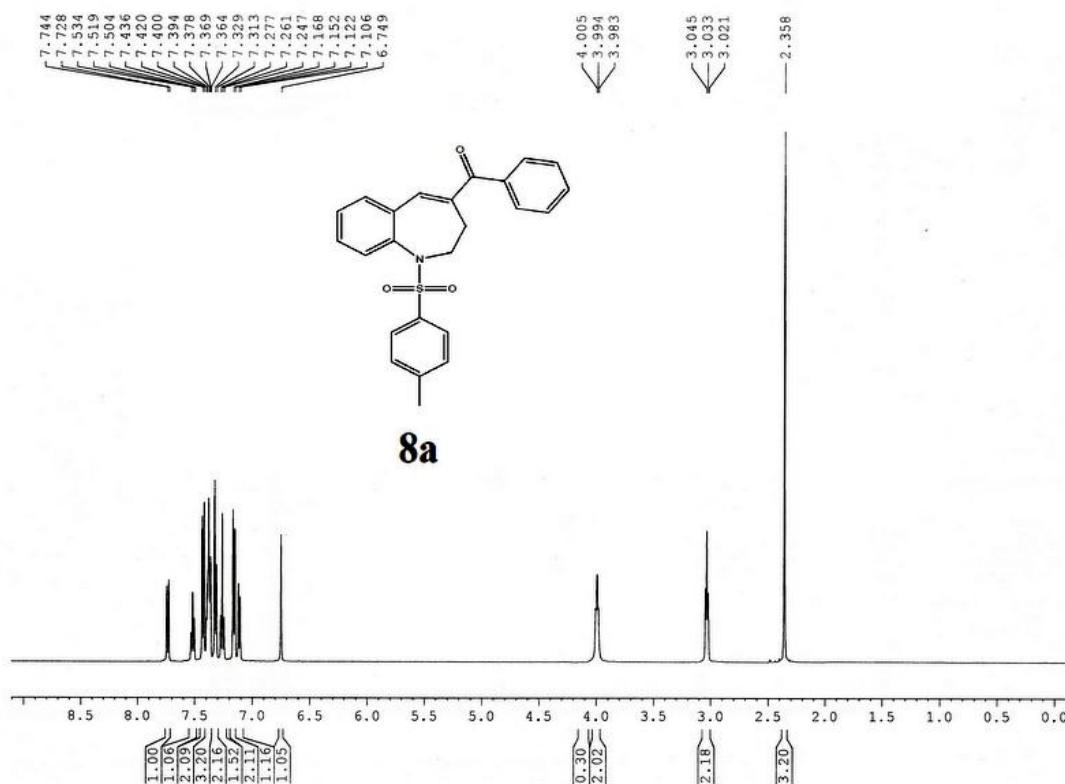
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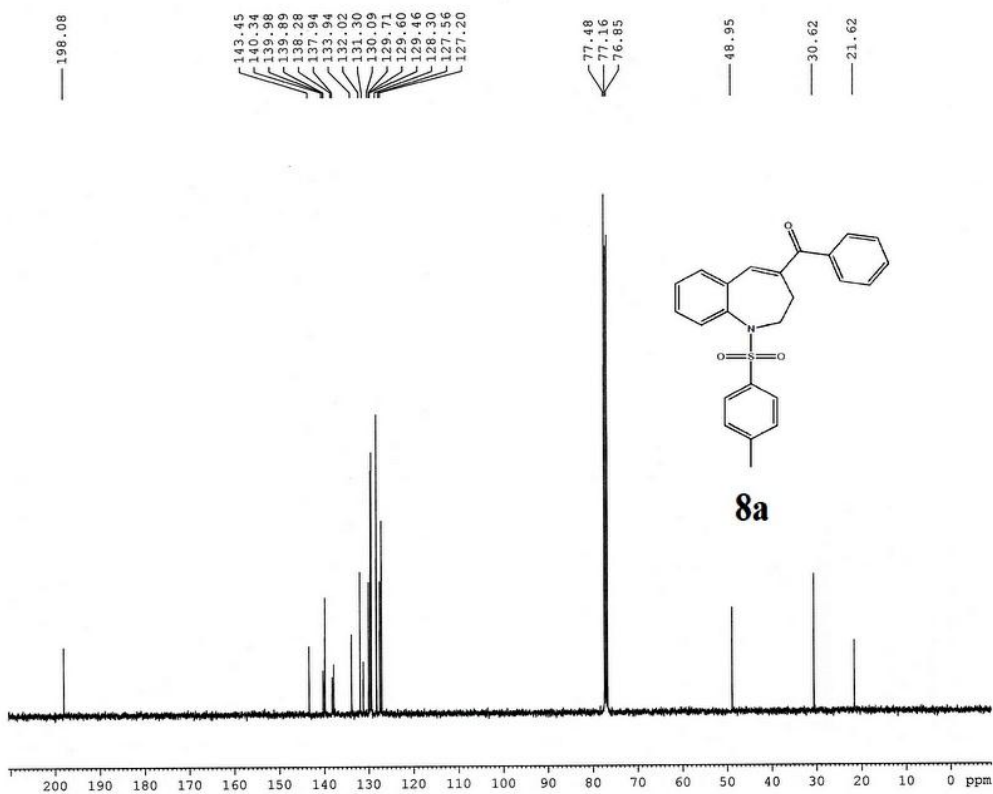
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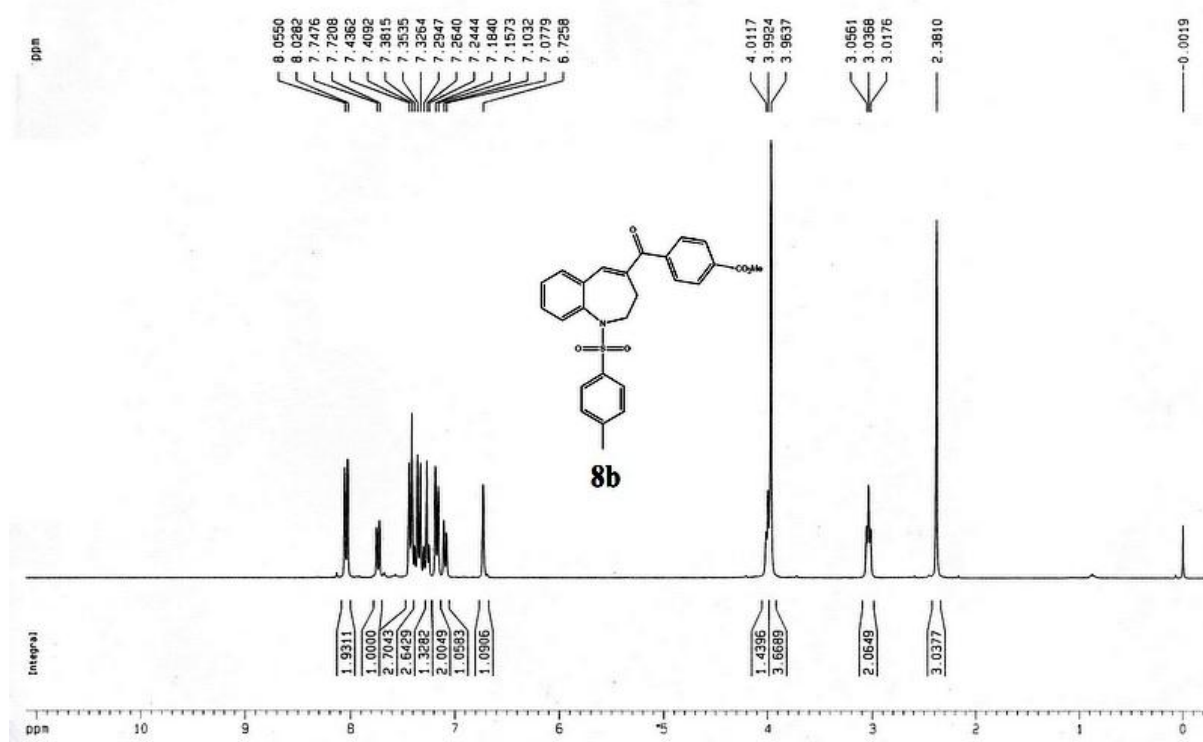
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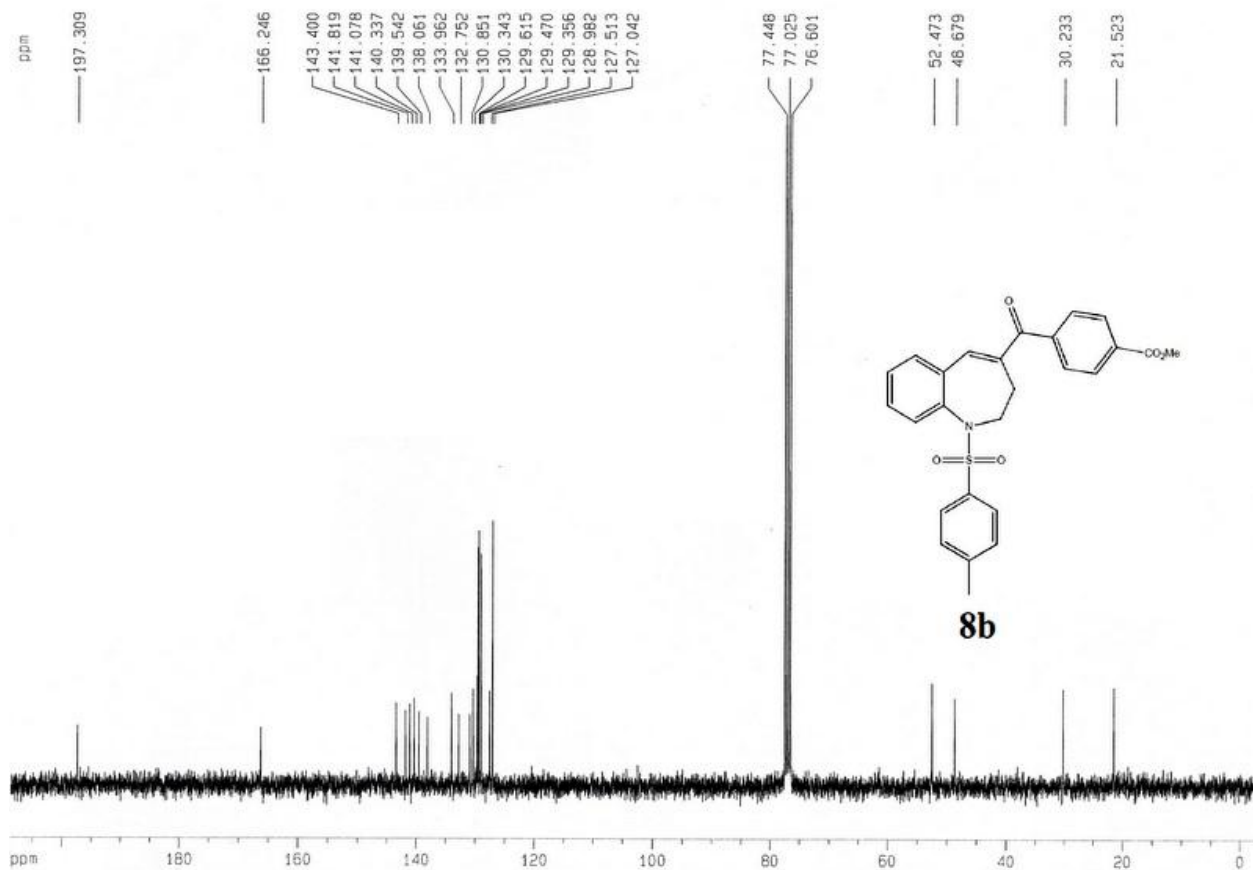
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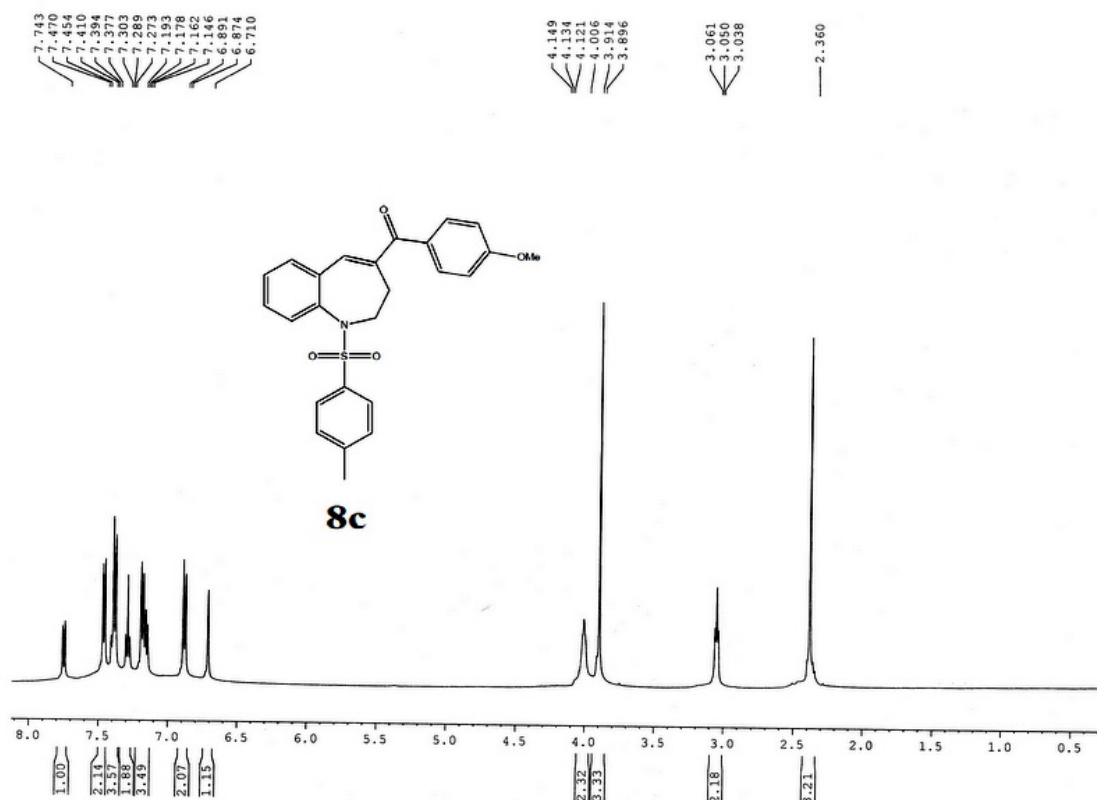
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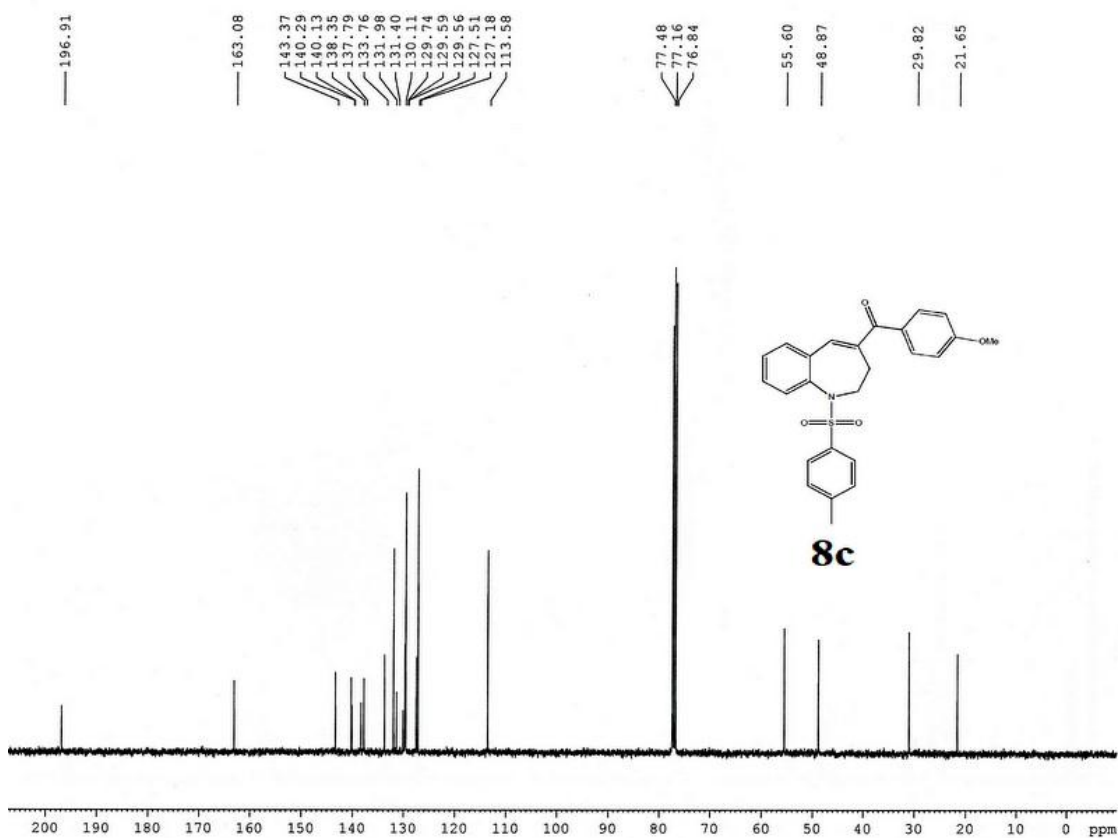
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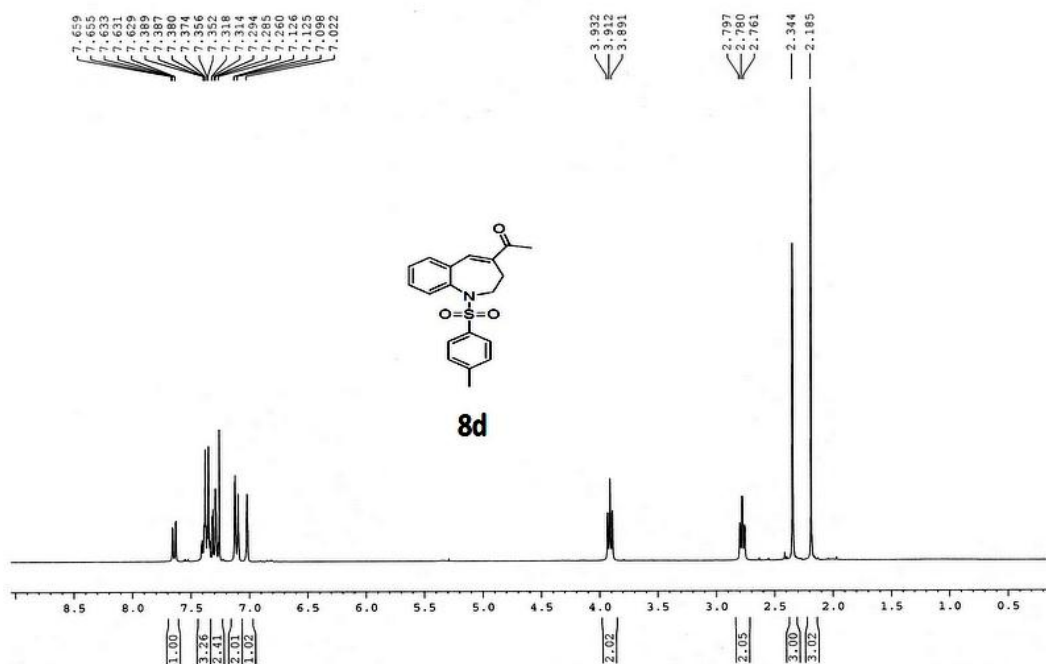
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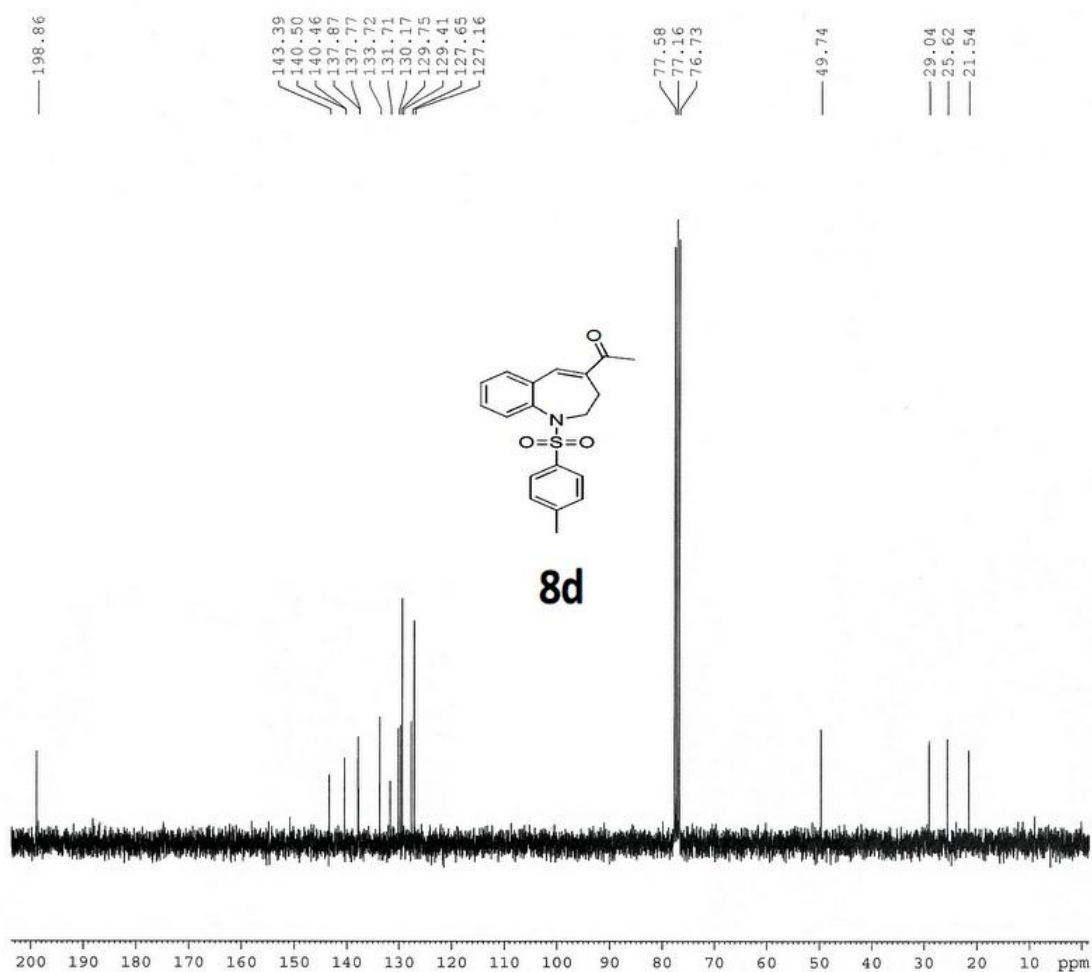
¹³C NMR of compound **8c**



¹H NMR of compound **8d**



¹³C NMR of compound **8d**



Crystal structure of **3b**:

ORTEP representation of **3b**

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

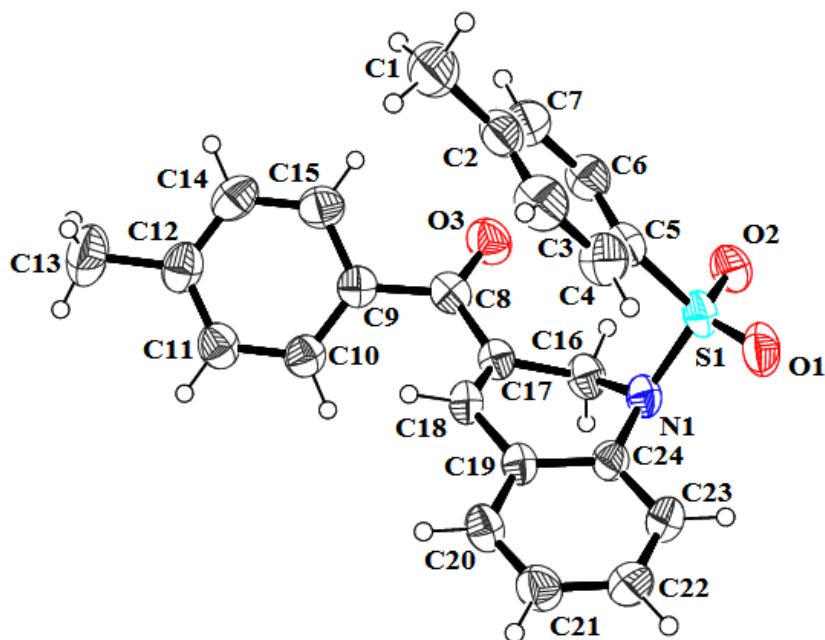


Figure 1. Representations of **3b** showing 40 % probability of thermal ellipsoid.