

Supporting Information

Electrochemical and Chemical Synthesis of Different types of Sulfonamide Derivatives of *N,N*-dimethyl-1,4-benzenediamine Using 4-Nitroso-*N,N*- dimethylaniline

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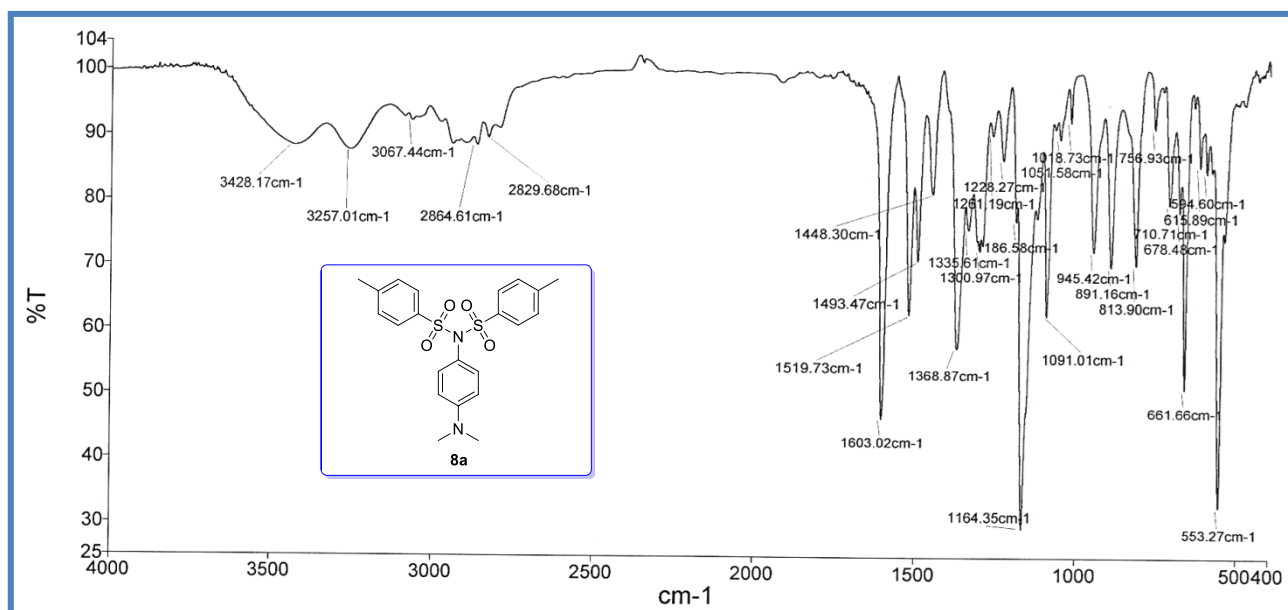
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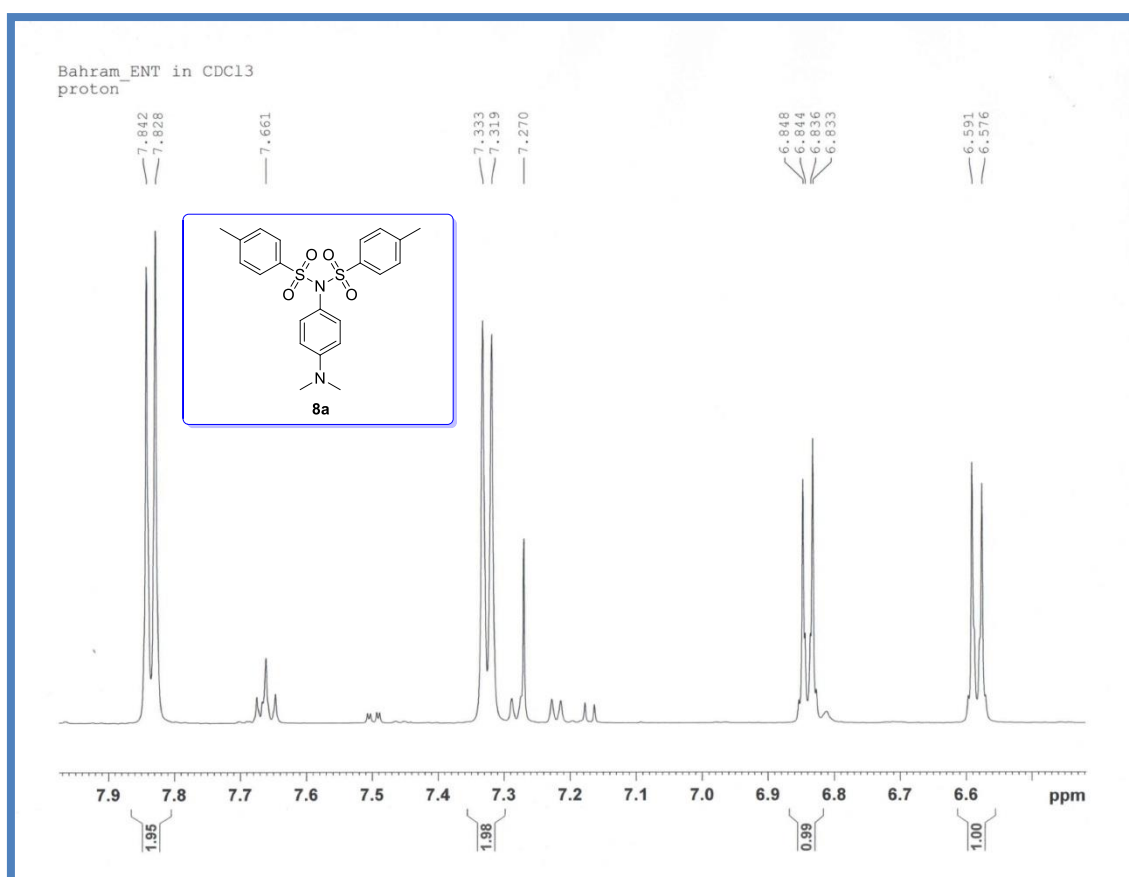
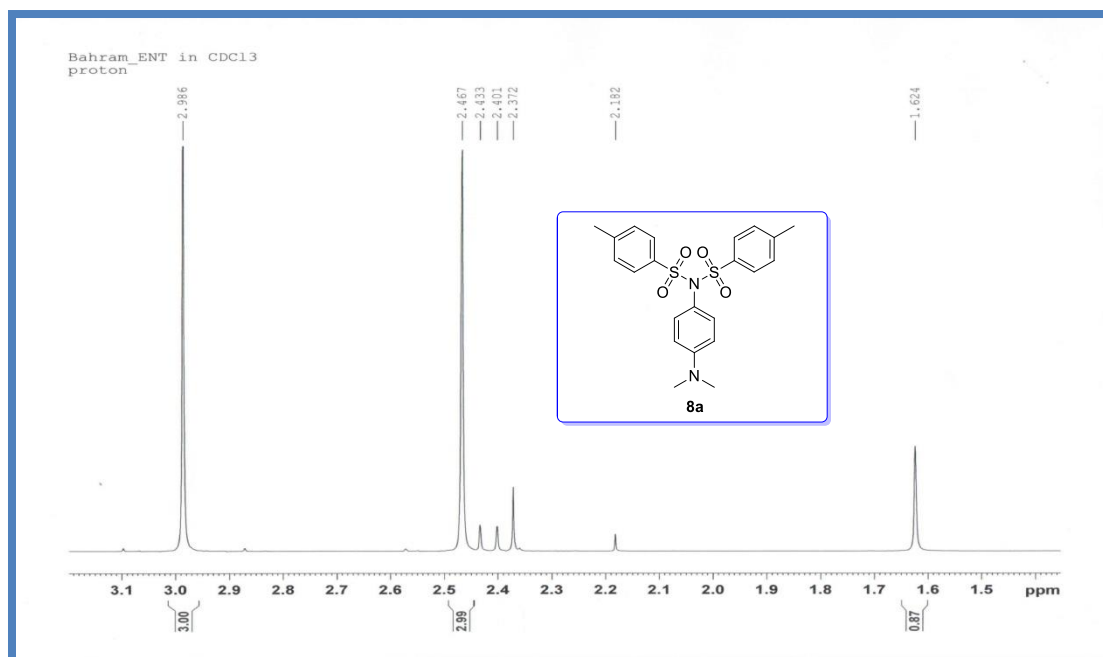
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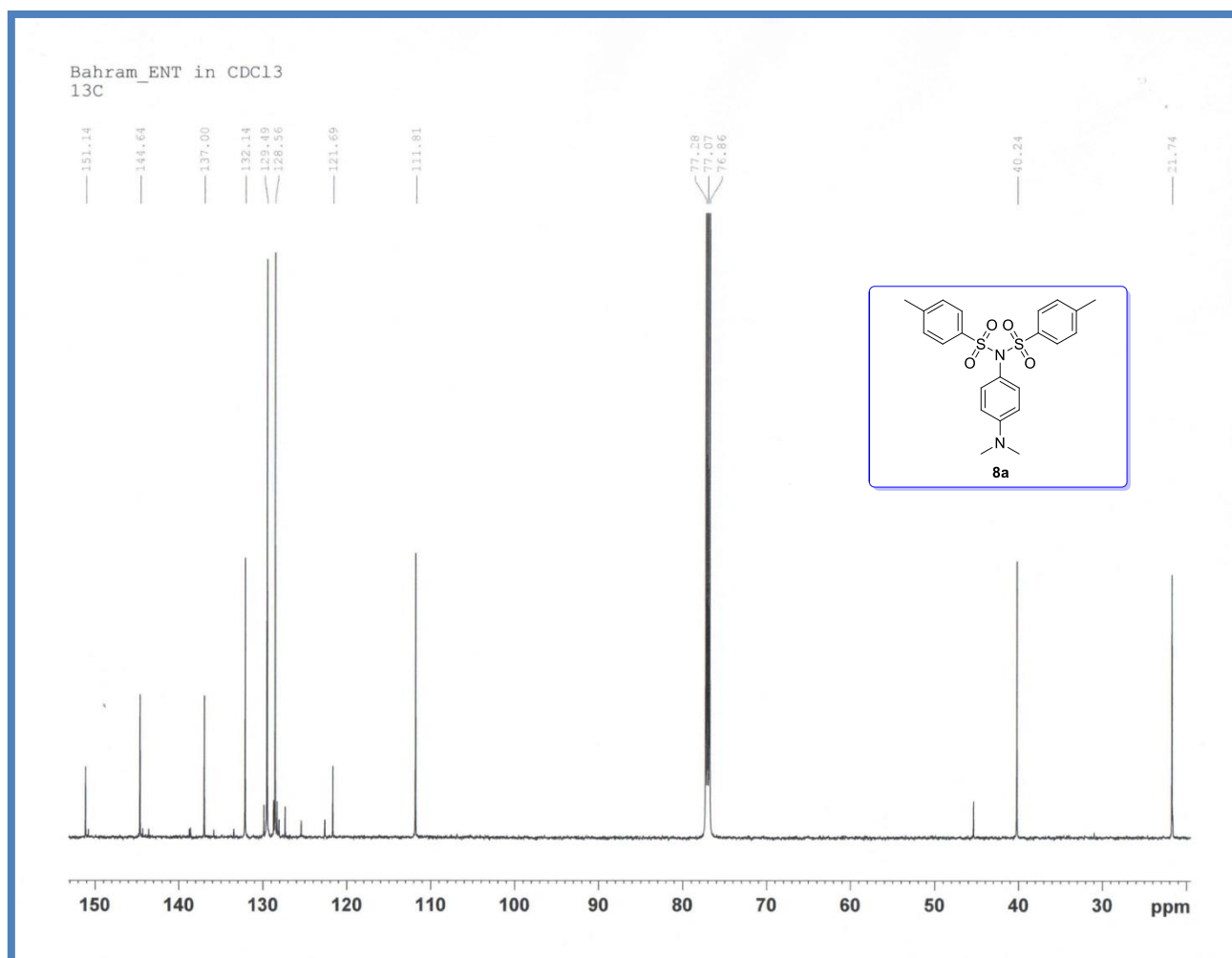
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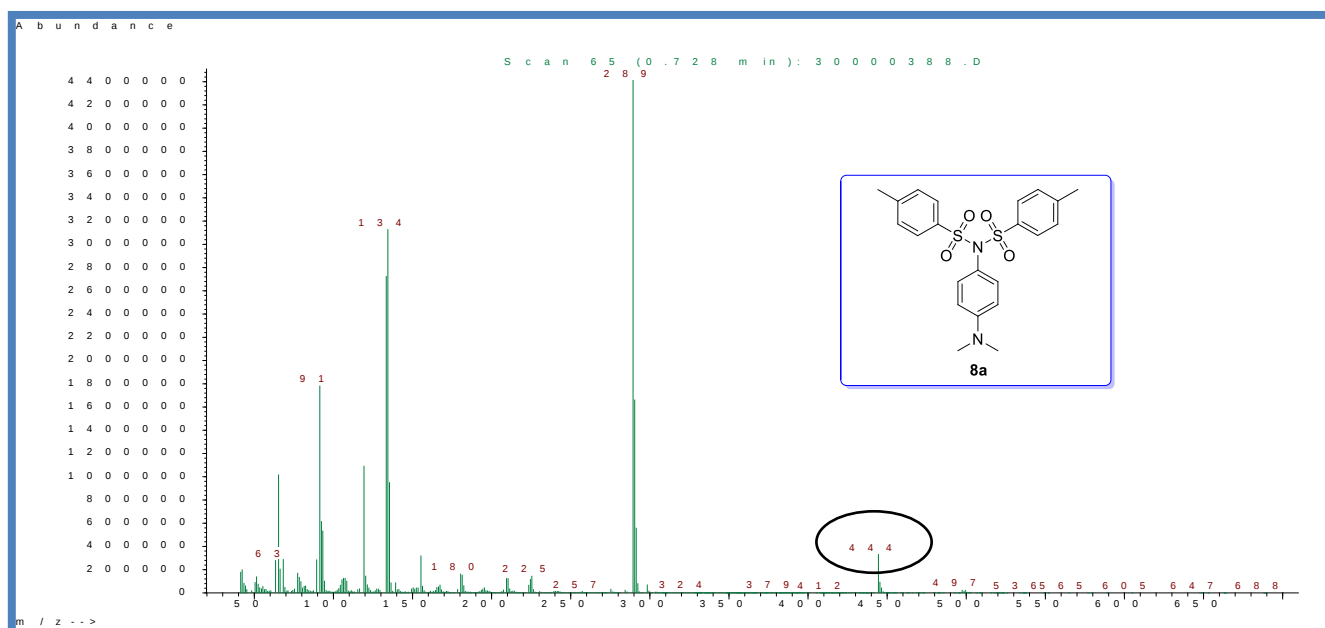
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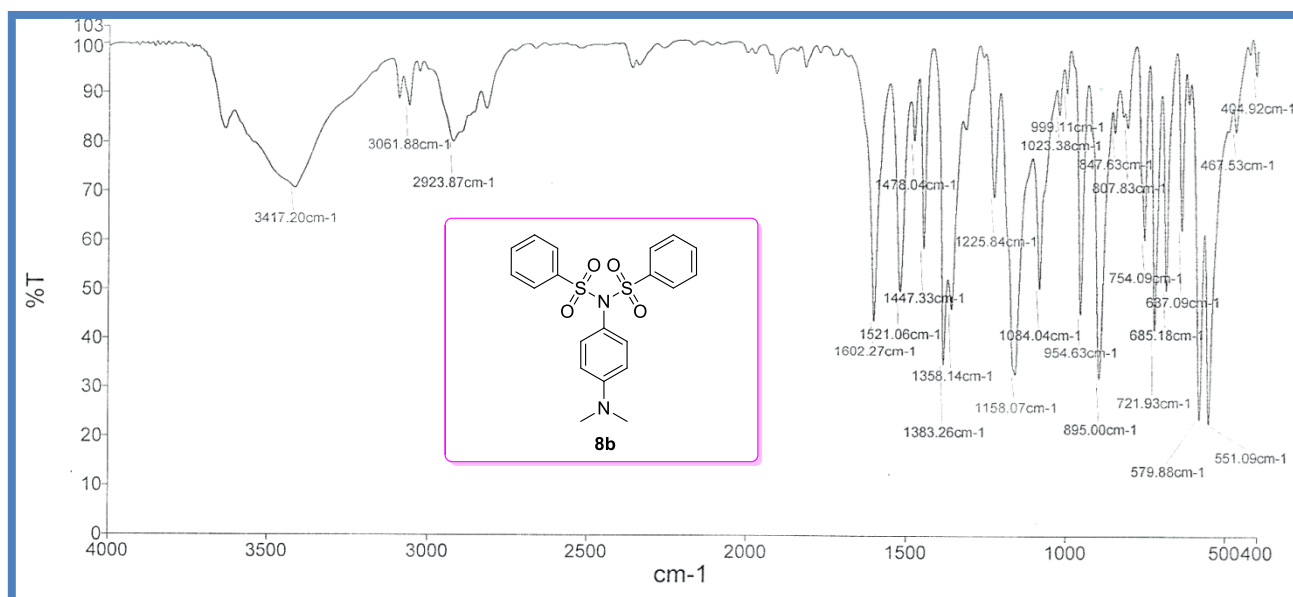
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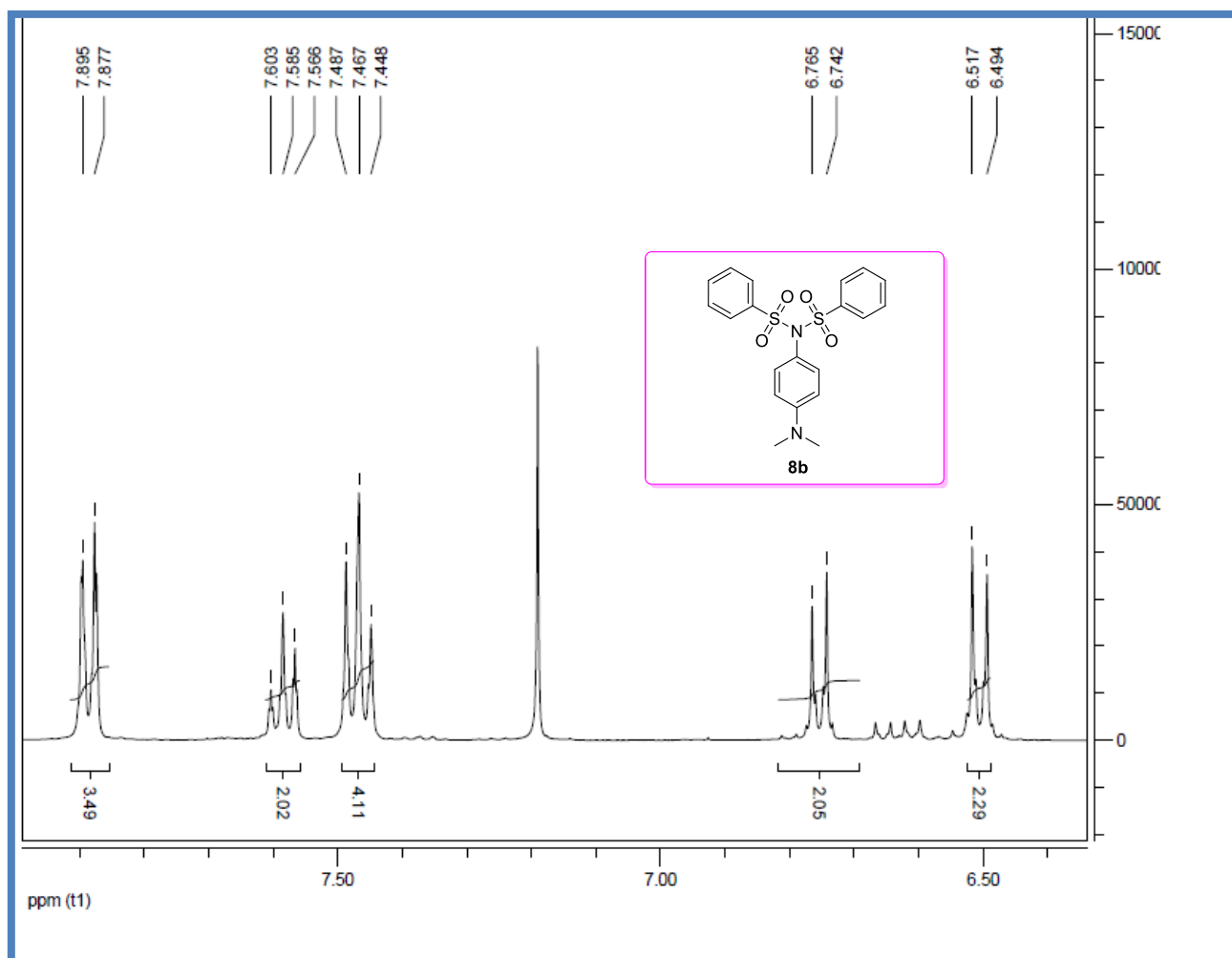
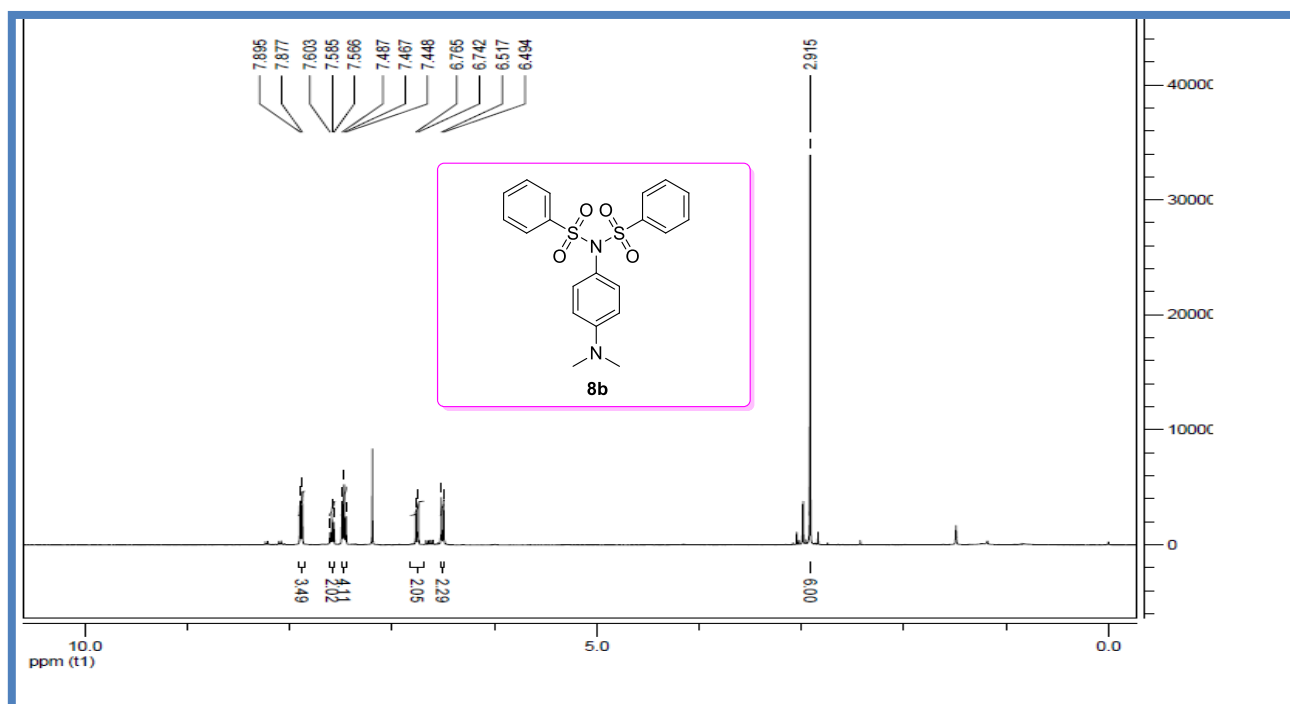
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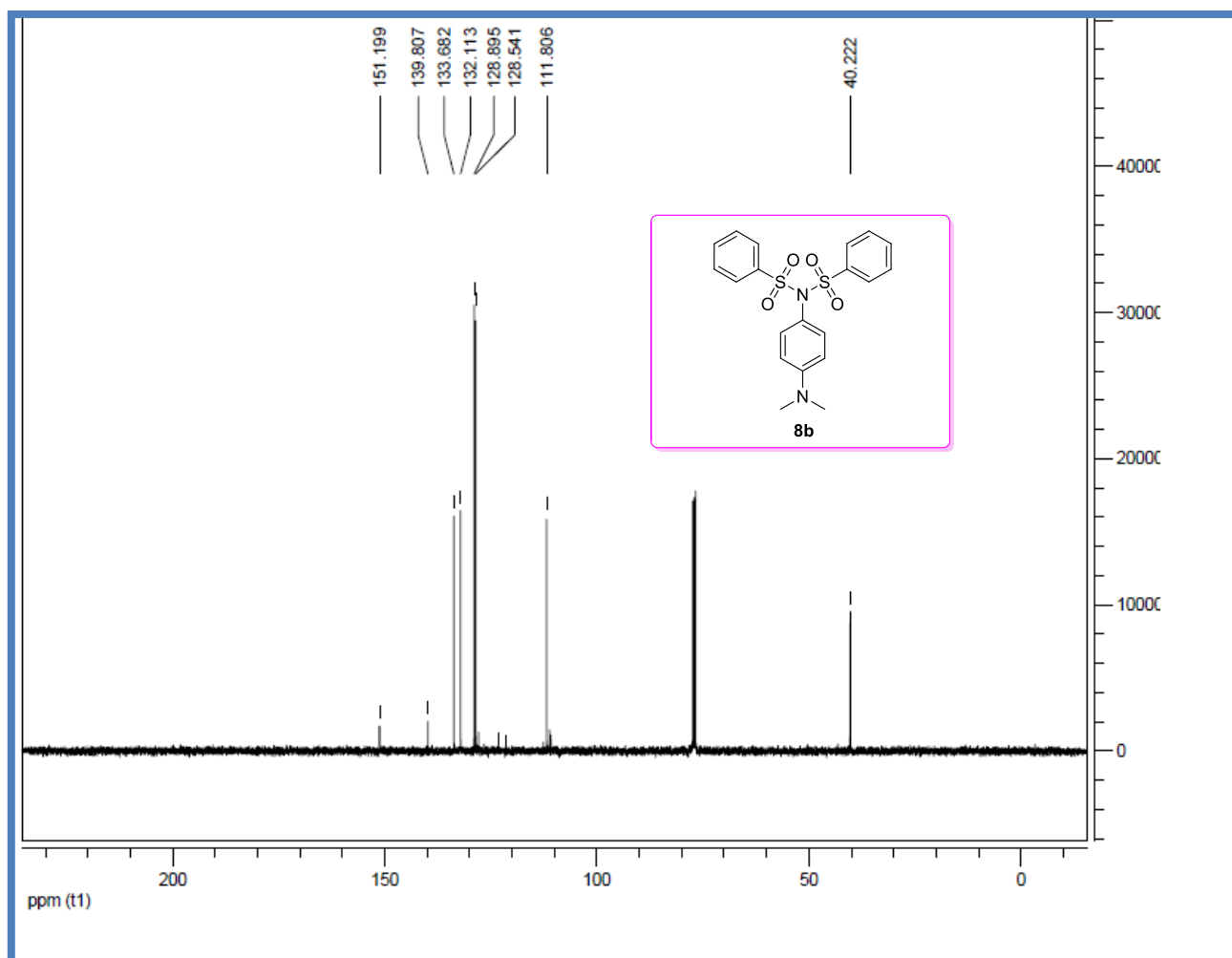
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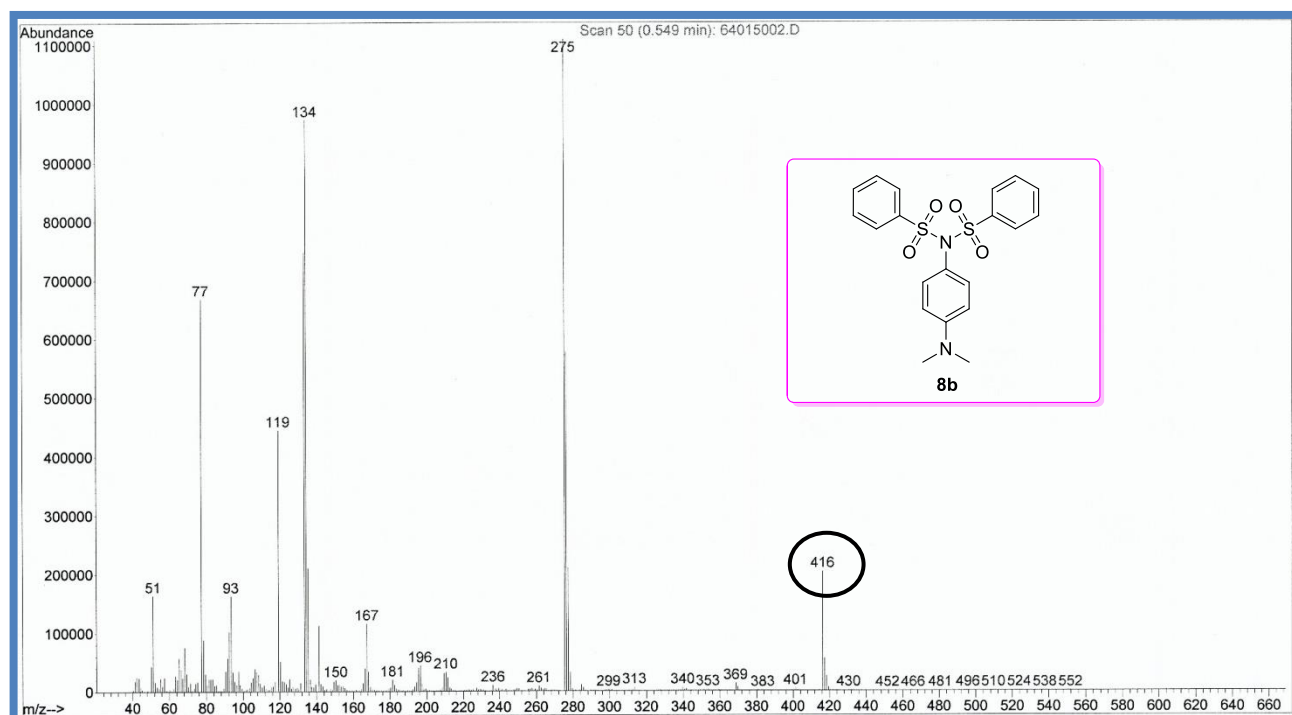
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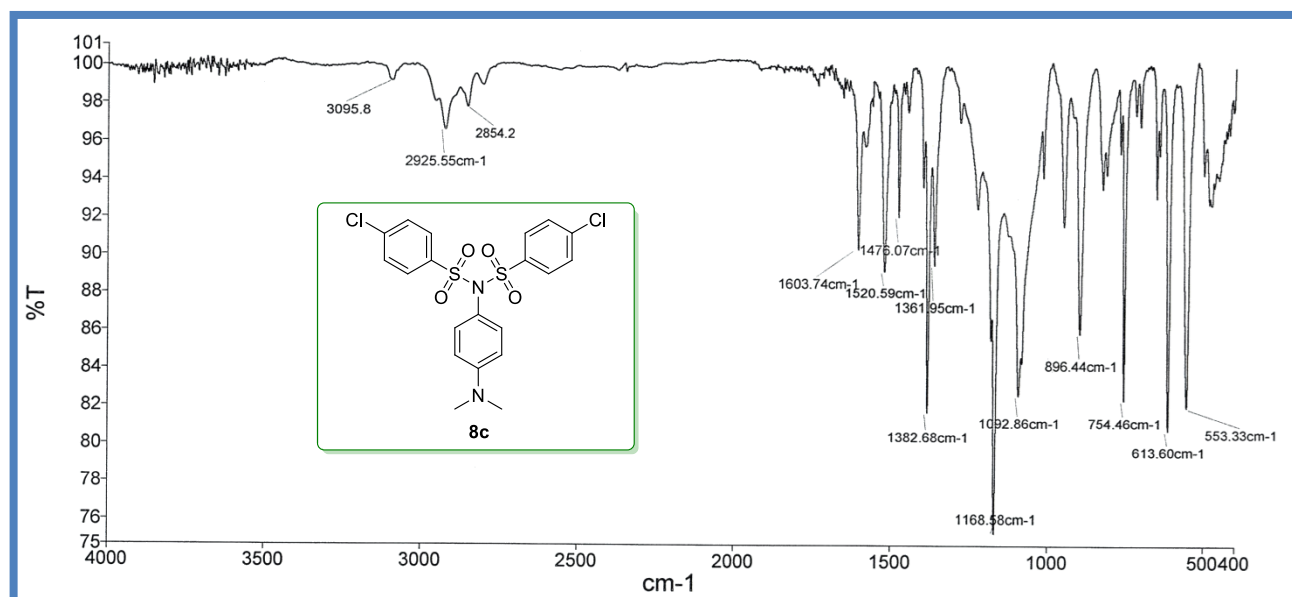
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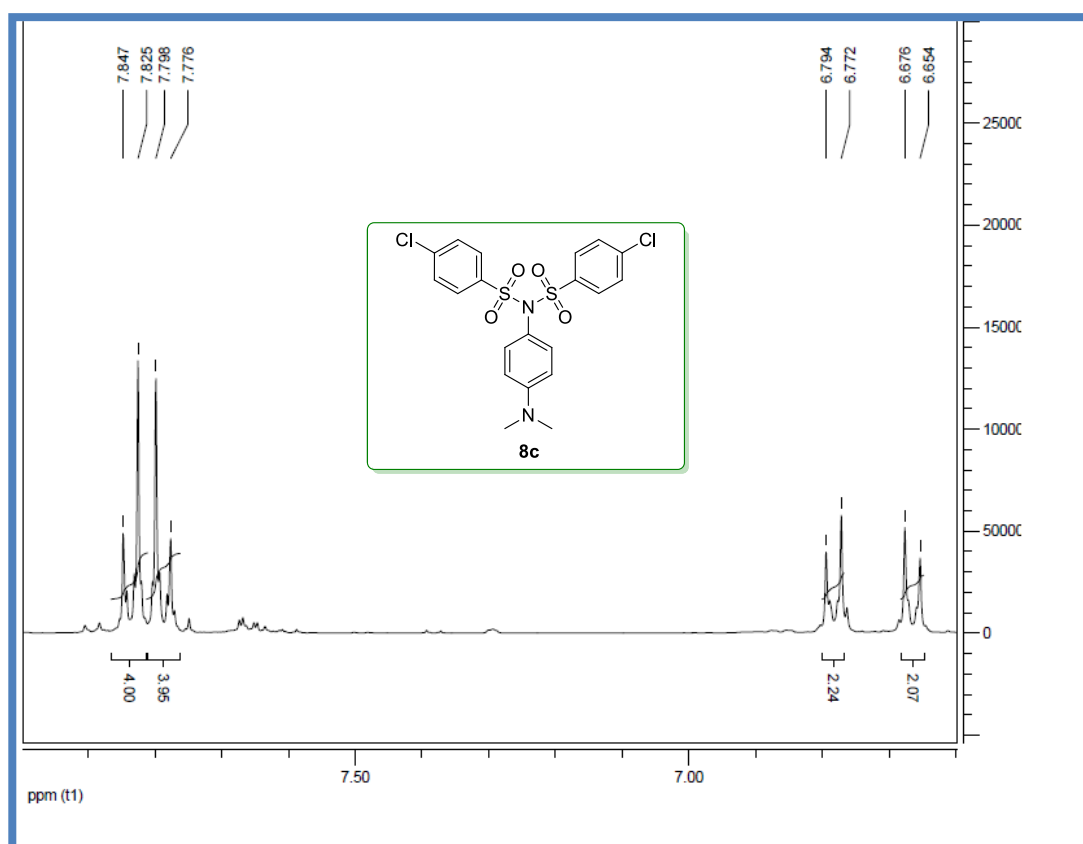
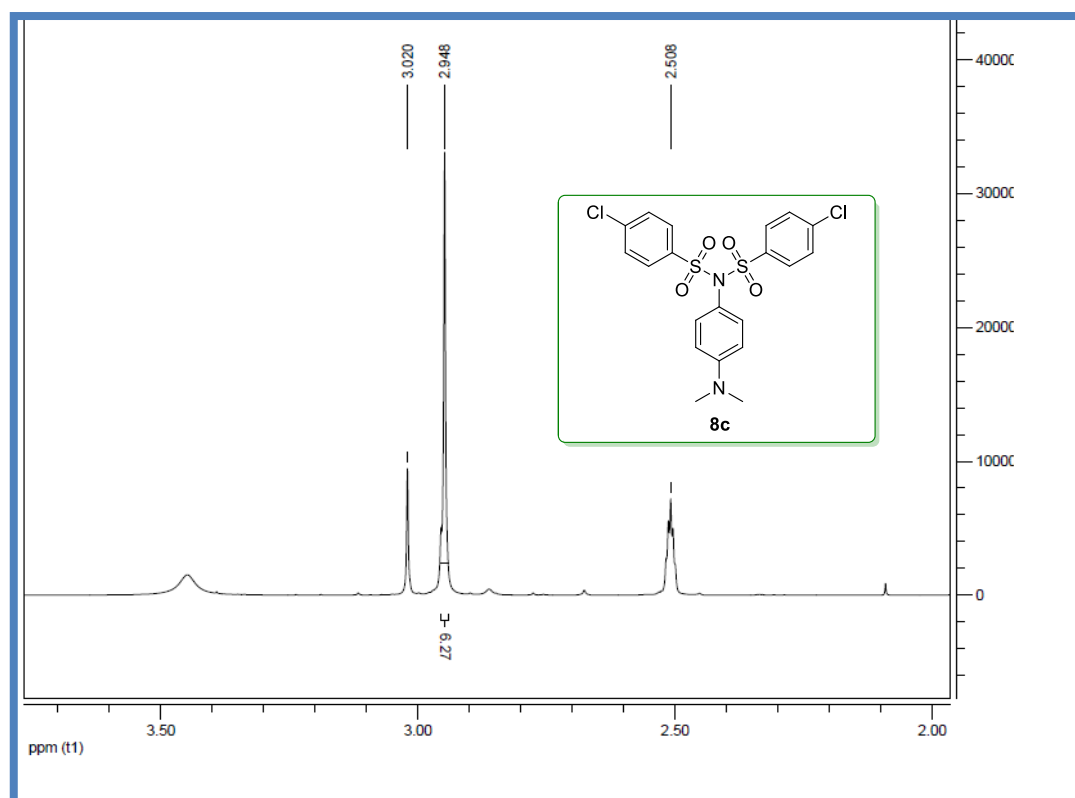
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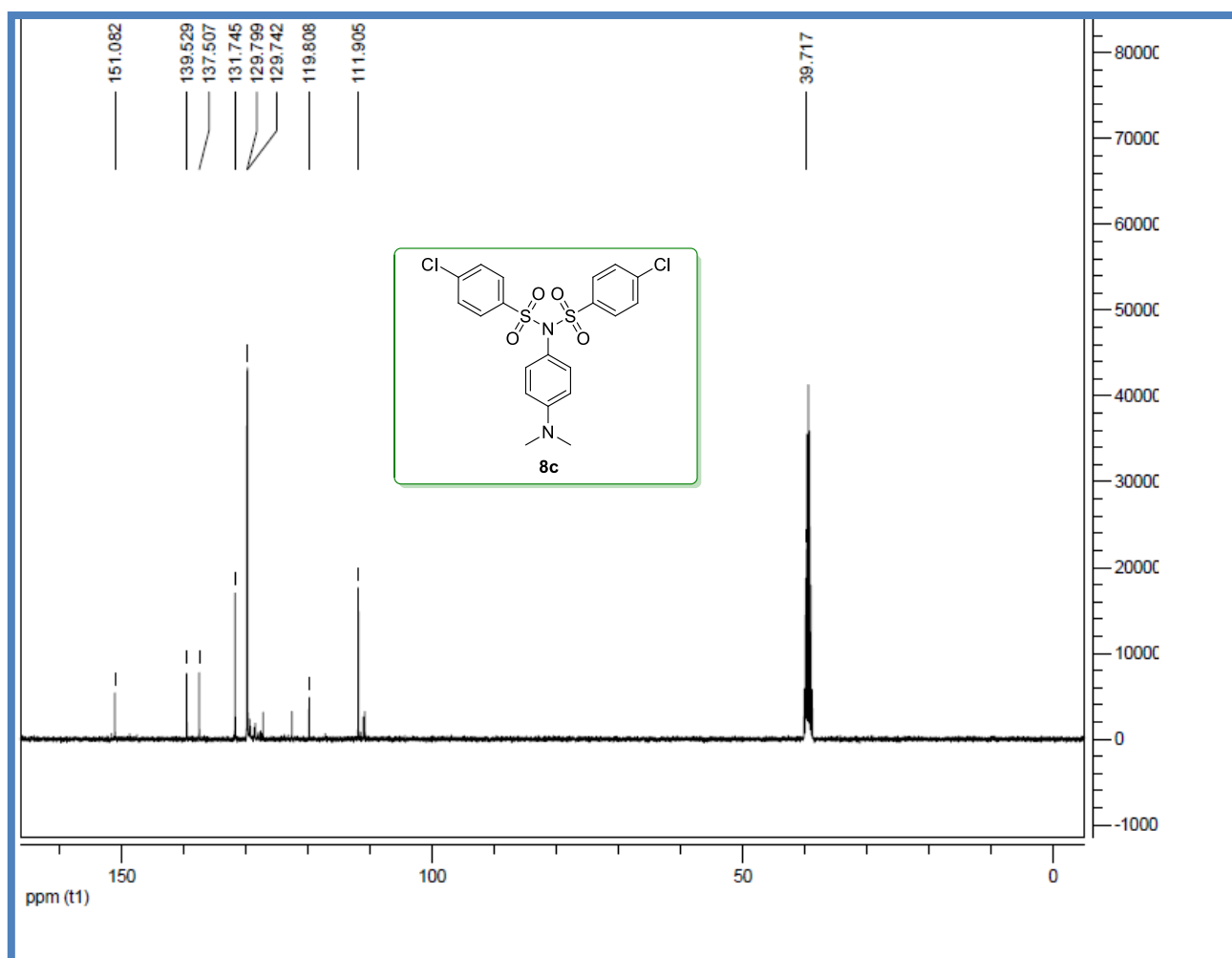
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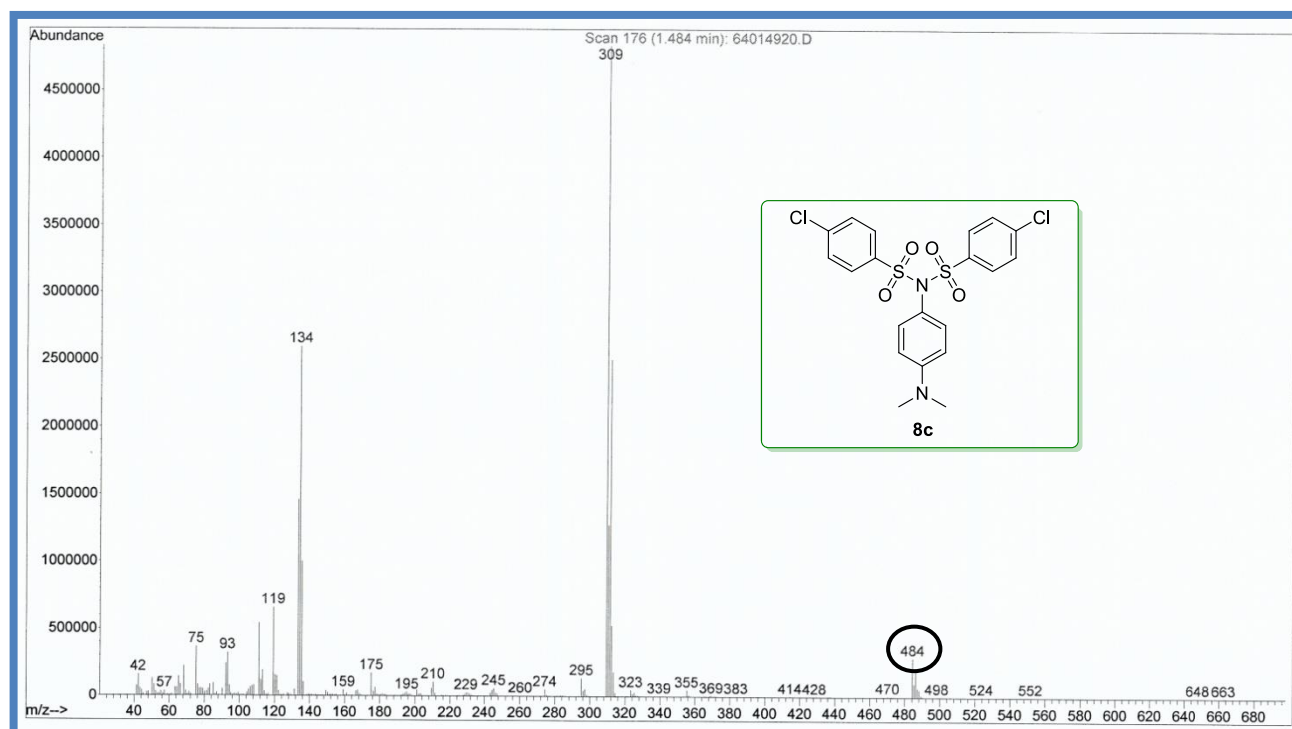
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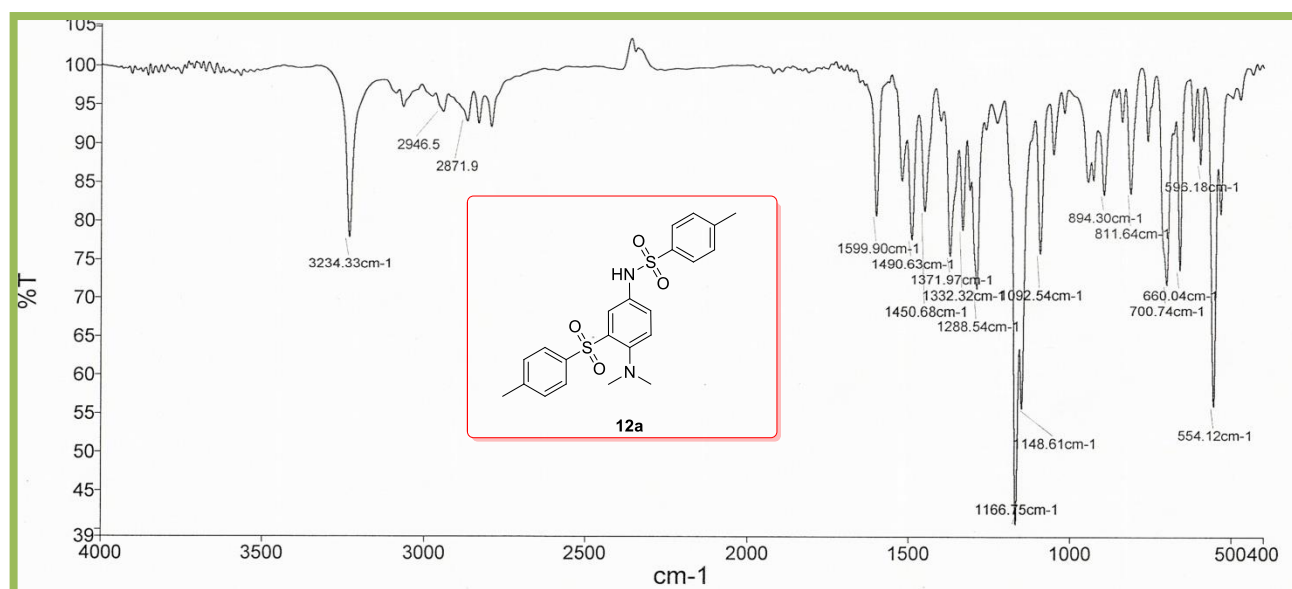
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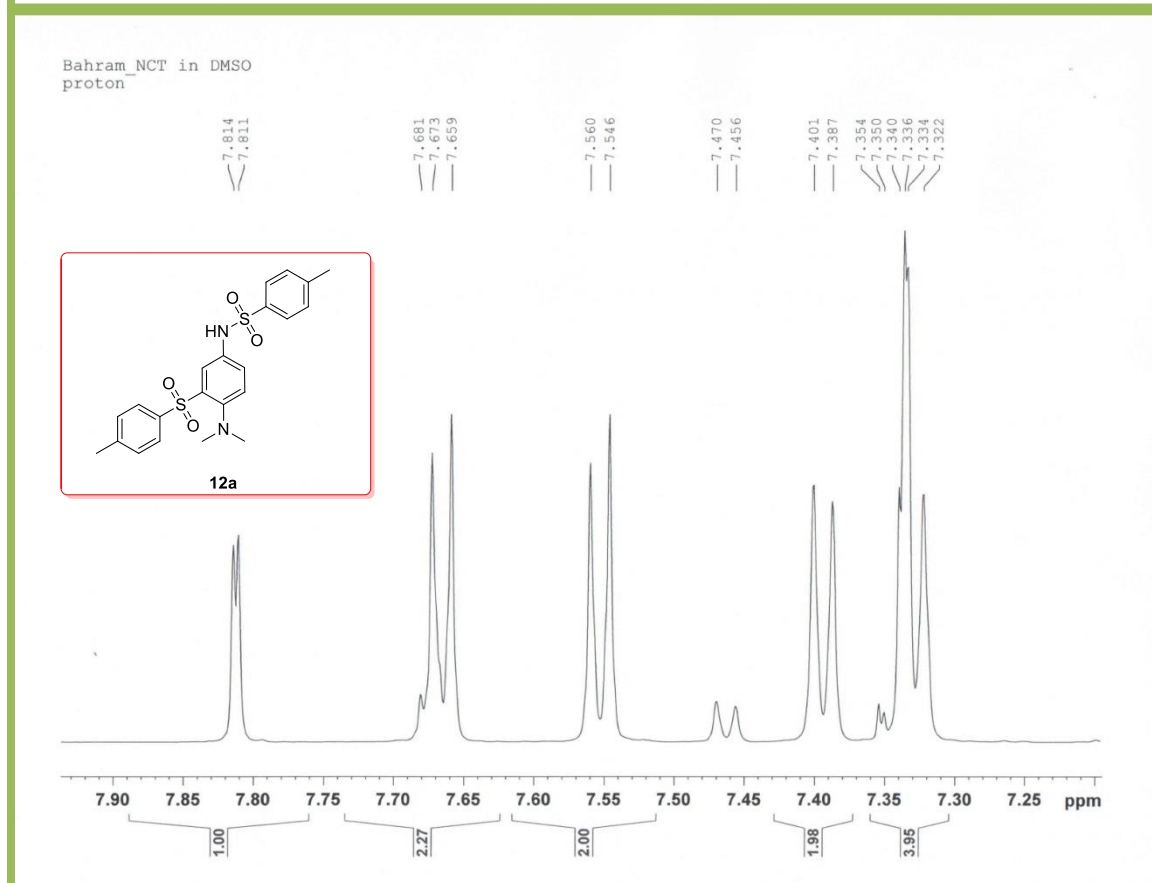
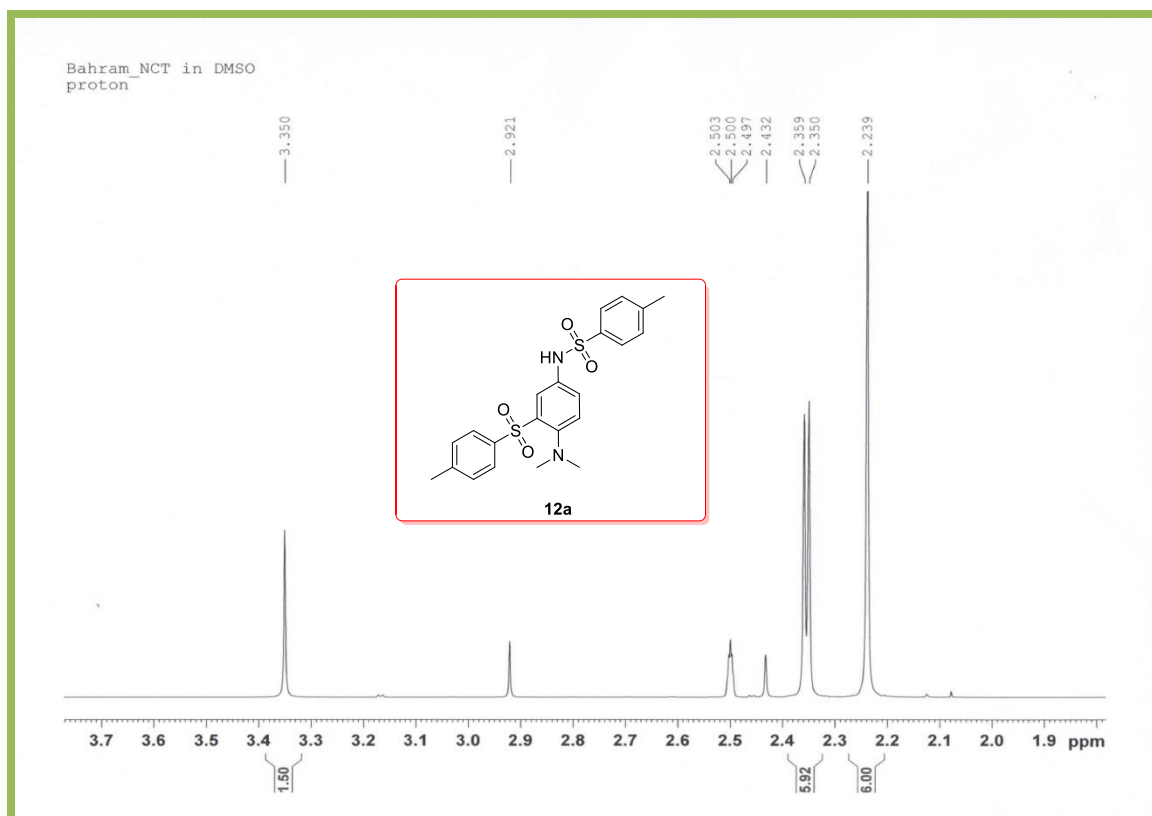
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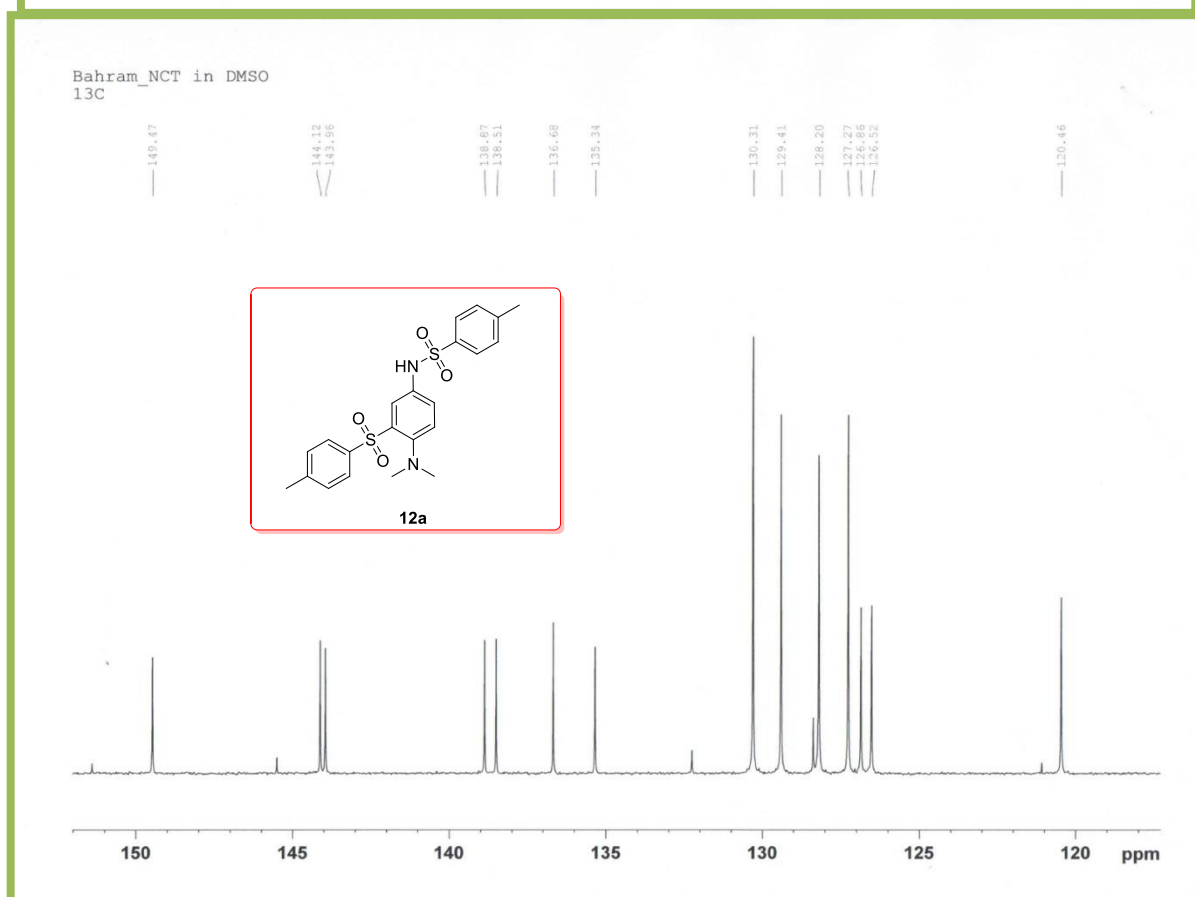
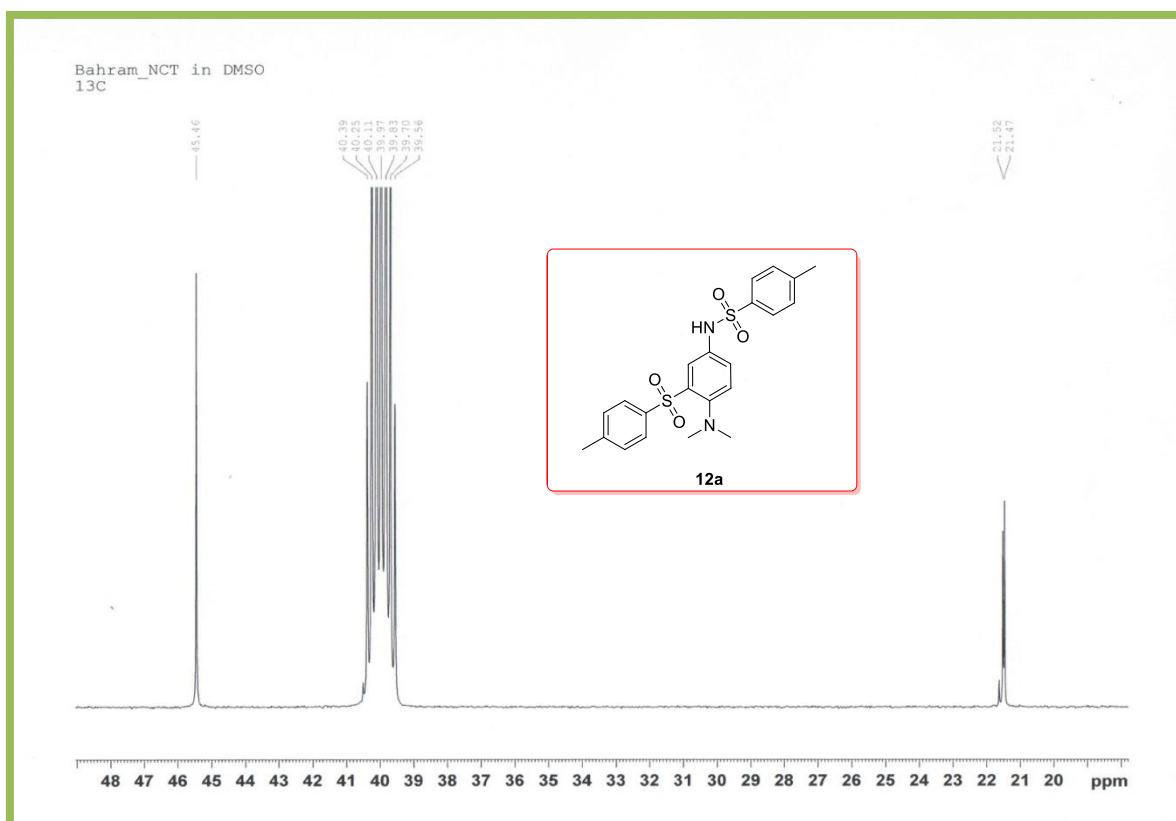
IR spectrum of 12a



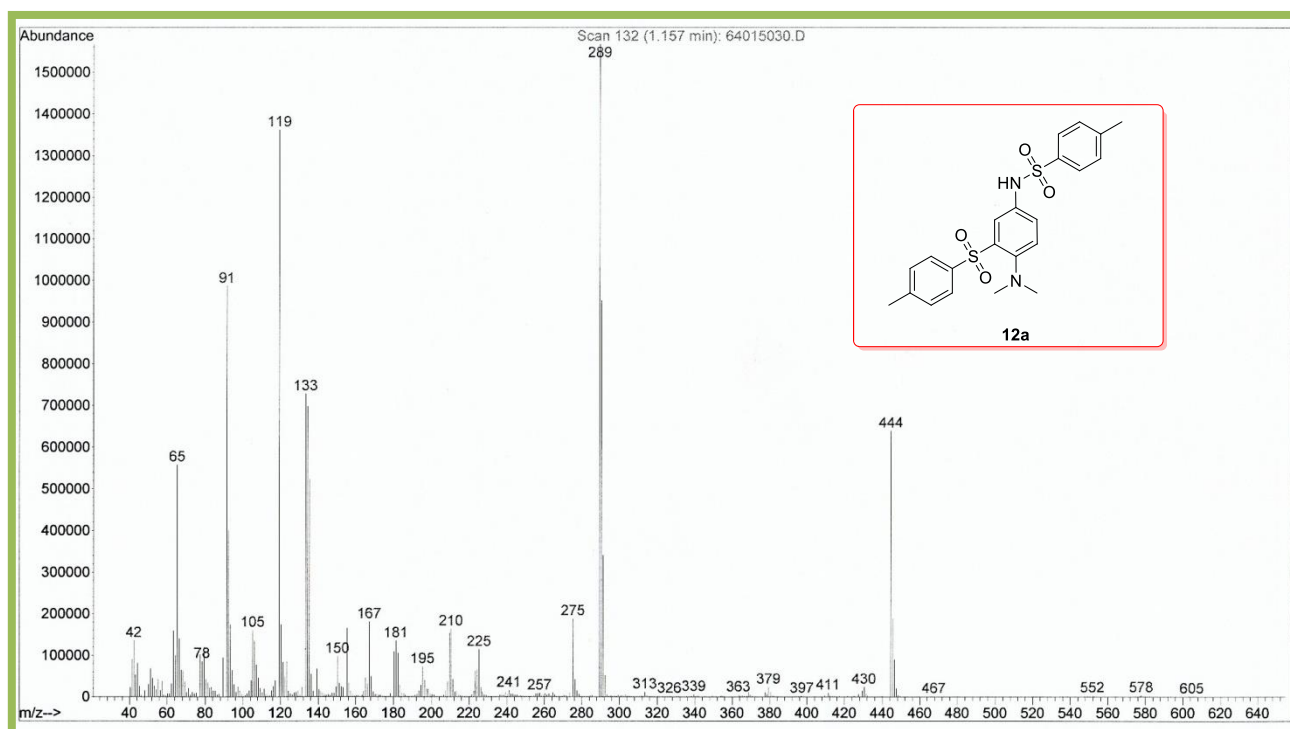
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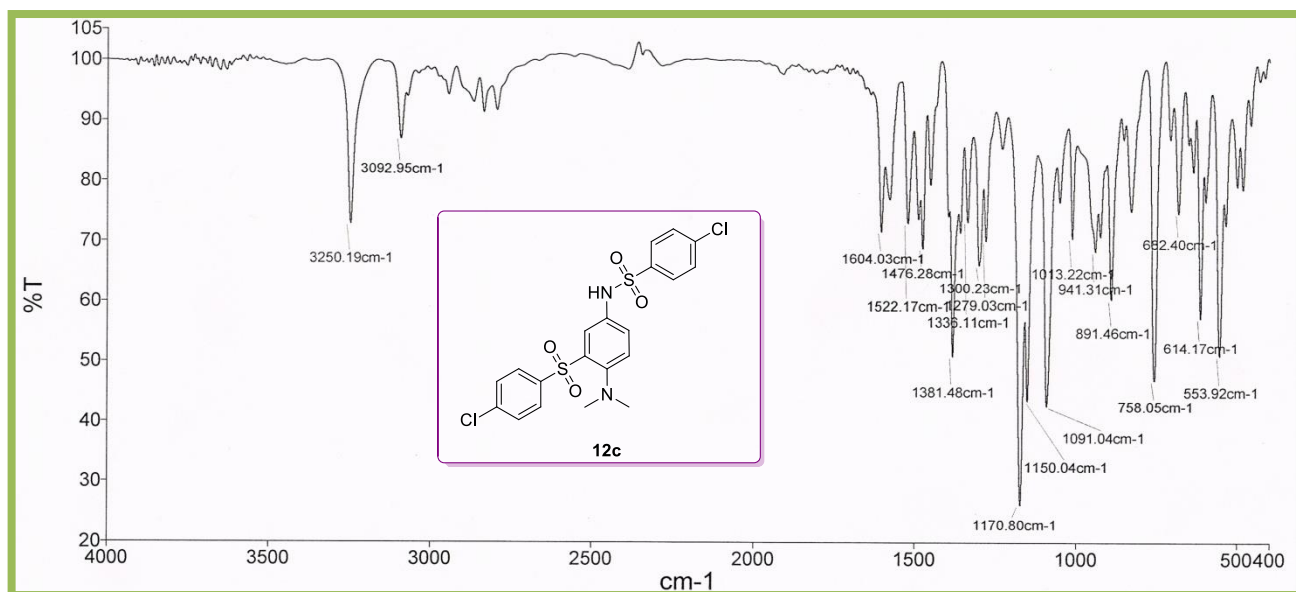
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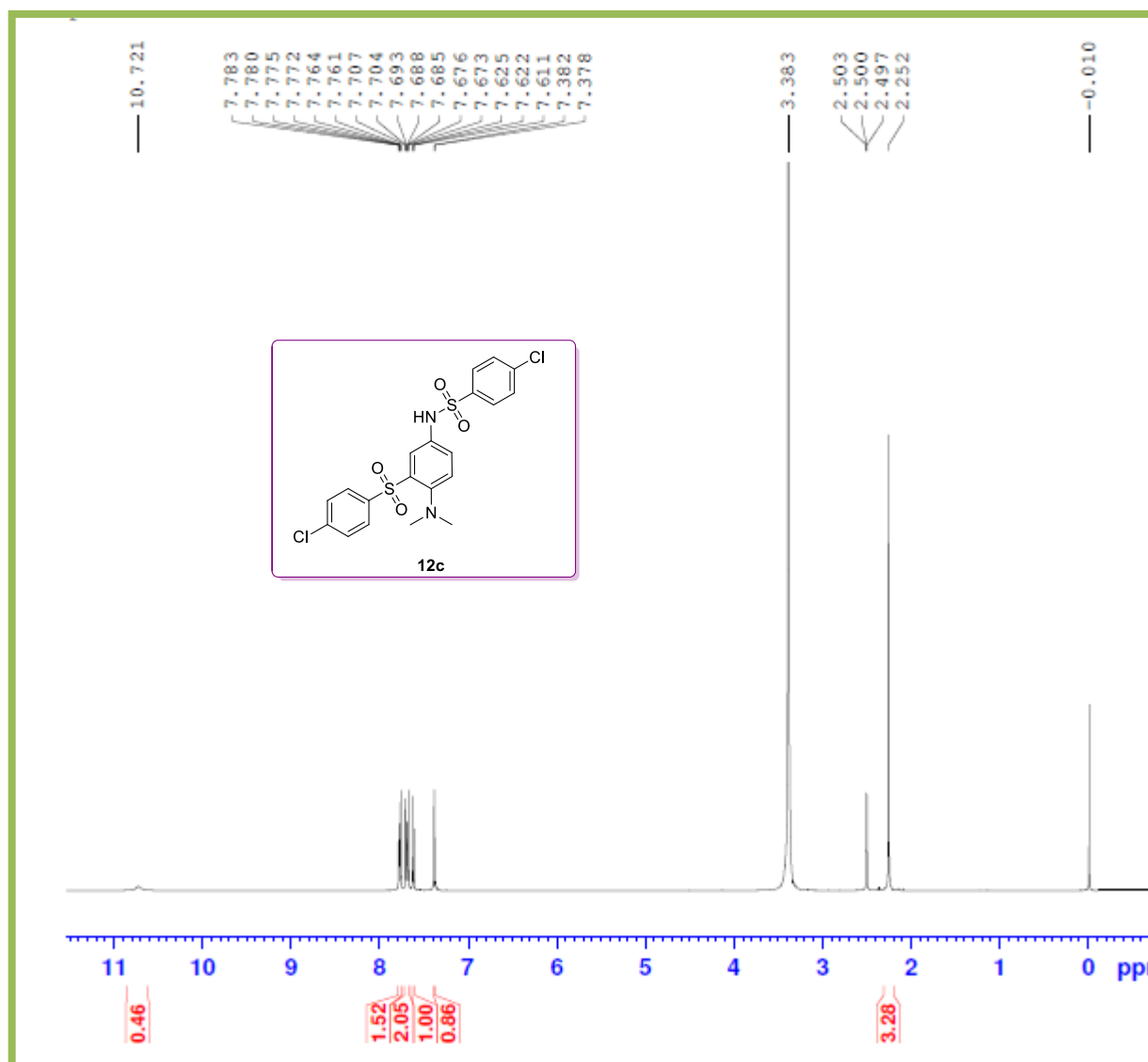
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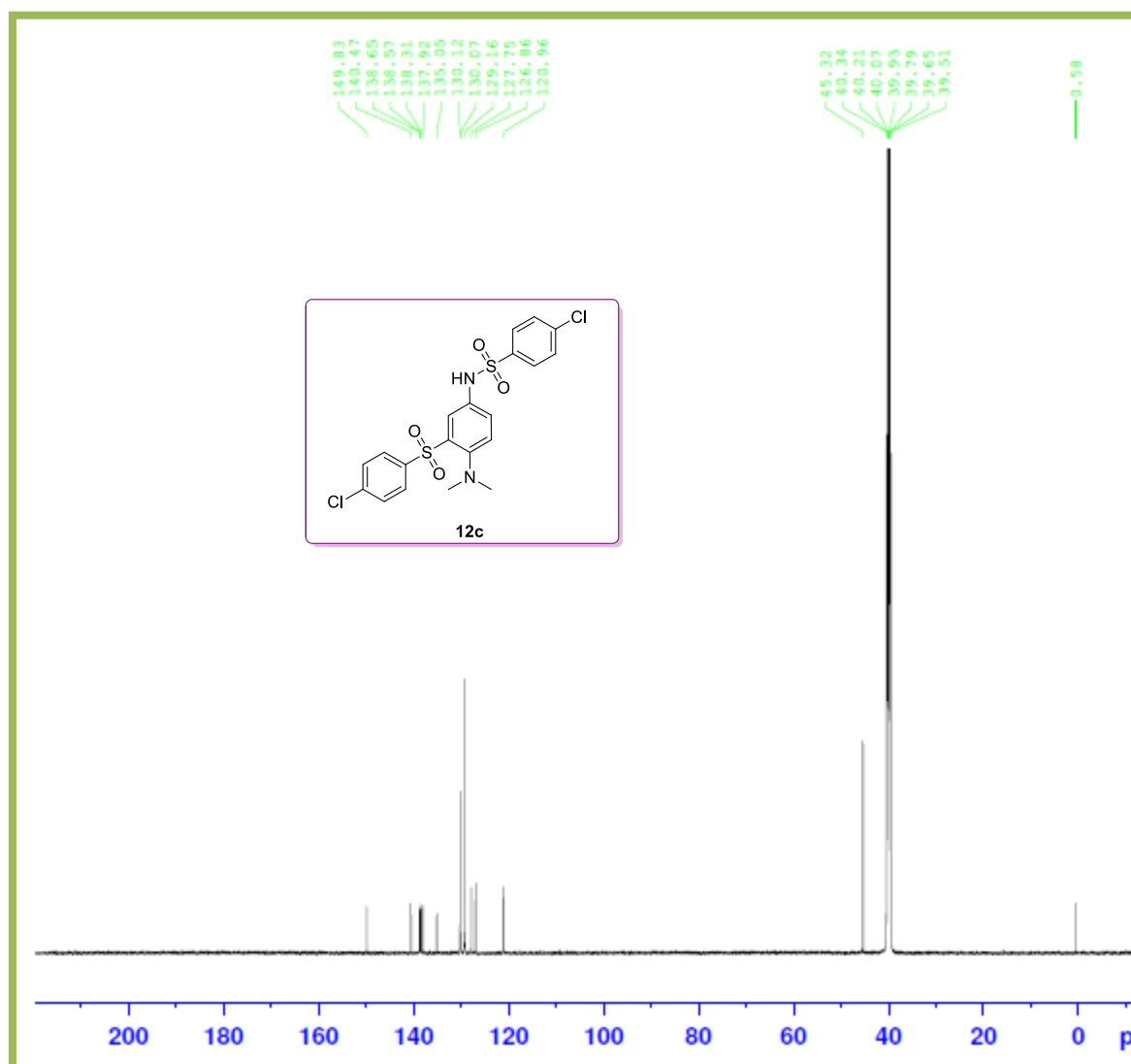
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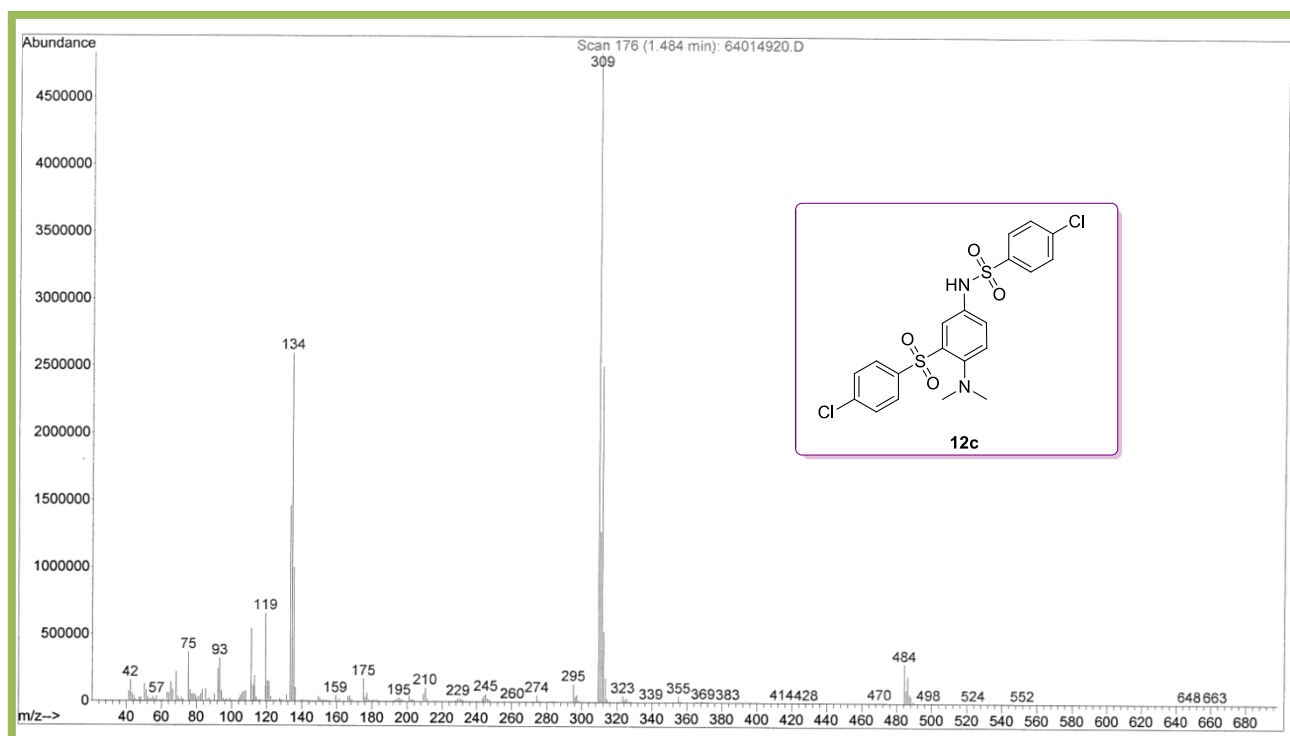
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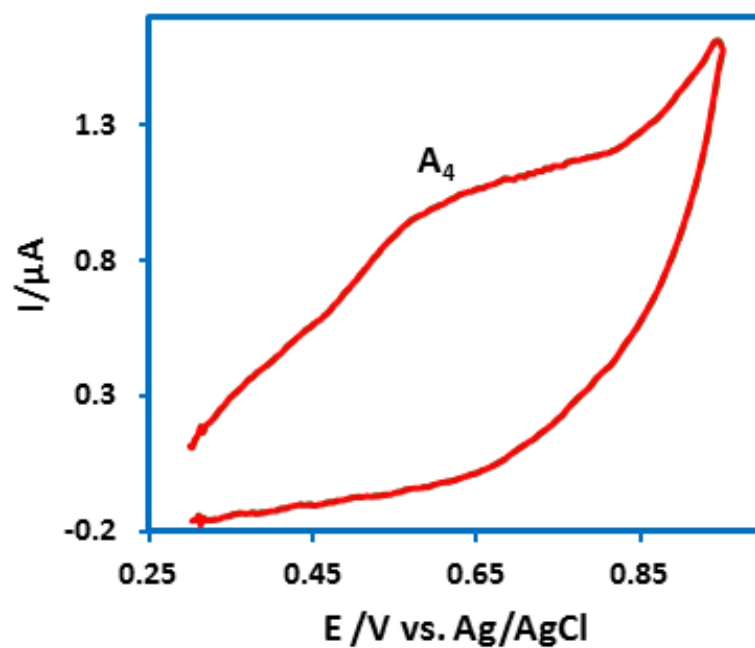
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Mass spectrum of 12c

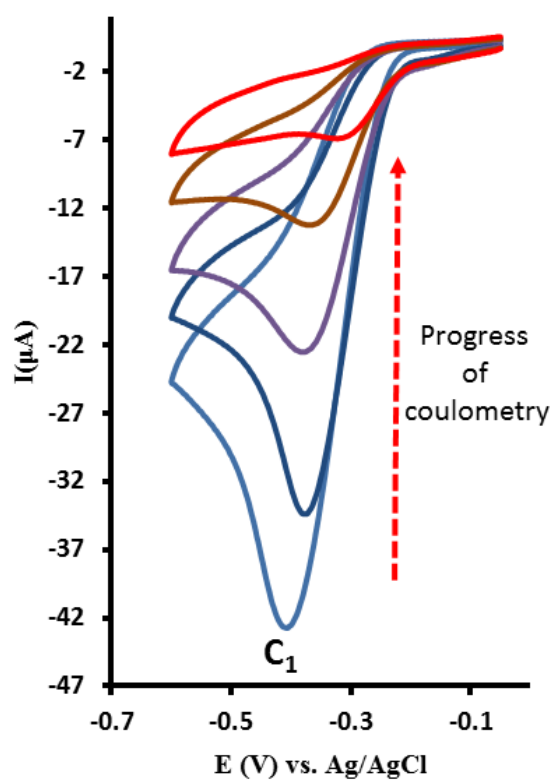


Cyclic Voltammogram of 5a



Cyclic voltammogram of 4-toluenesulfinic acid (5a) at a glassy carbon electrode, in ethanol/water mixture (30/70) solution containing 0.2 M phosphate (pH 7.0). Scan rate: 50 mV s^{-1} , $T = 25 \pm 1^\circ \text{ C}$.

Cyclic Voltammogram of **1** in the presence of **5a** during CPC



Cyclic Voltammograms of 0.5 mmol (**1**) in the presence of 1.5 mmol 4-toluenesulfinic acid (**5a**) at a glassy carbon electrode in water/ethanol (70/30) solution containing 0.2 M phosphate (pH=7.0) during controlled-potential coulometry at 0.90 V versus SCE. Scan rate: 100 mV s^{-1} . $T = 25 \pm 1 \text{ }^\circ\text{C}$.