

# Palladium-catalyzed Direct and Regioselective C-H Acyloxylation of Indolizines

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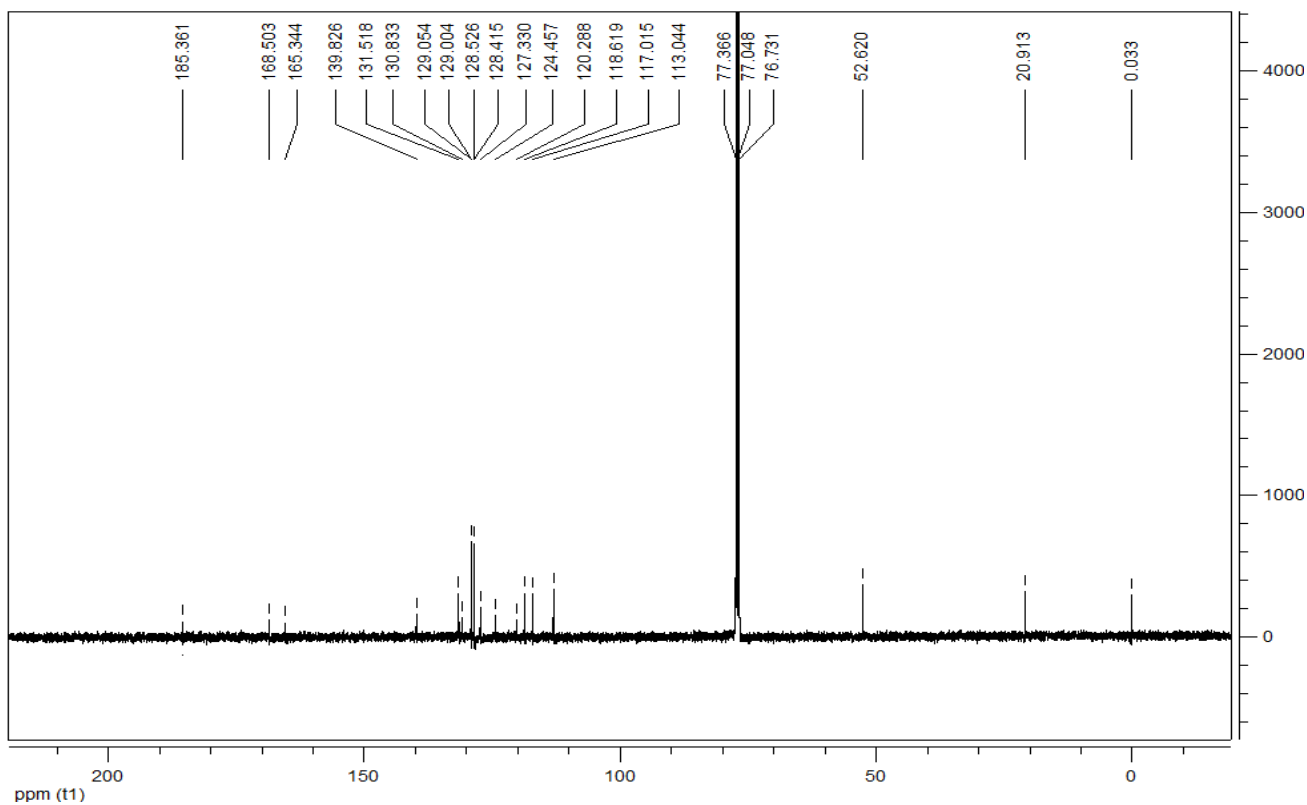
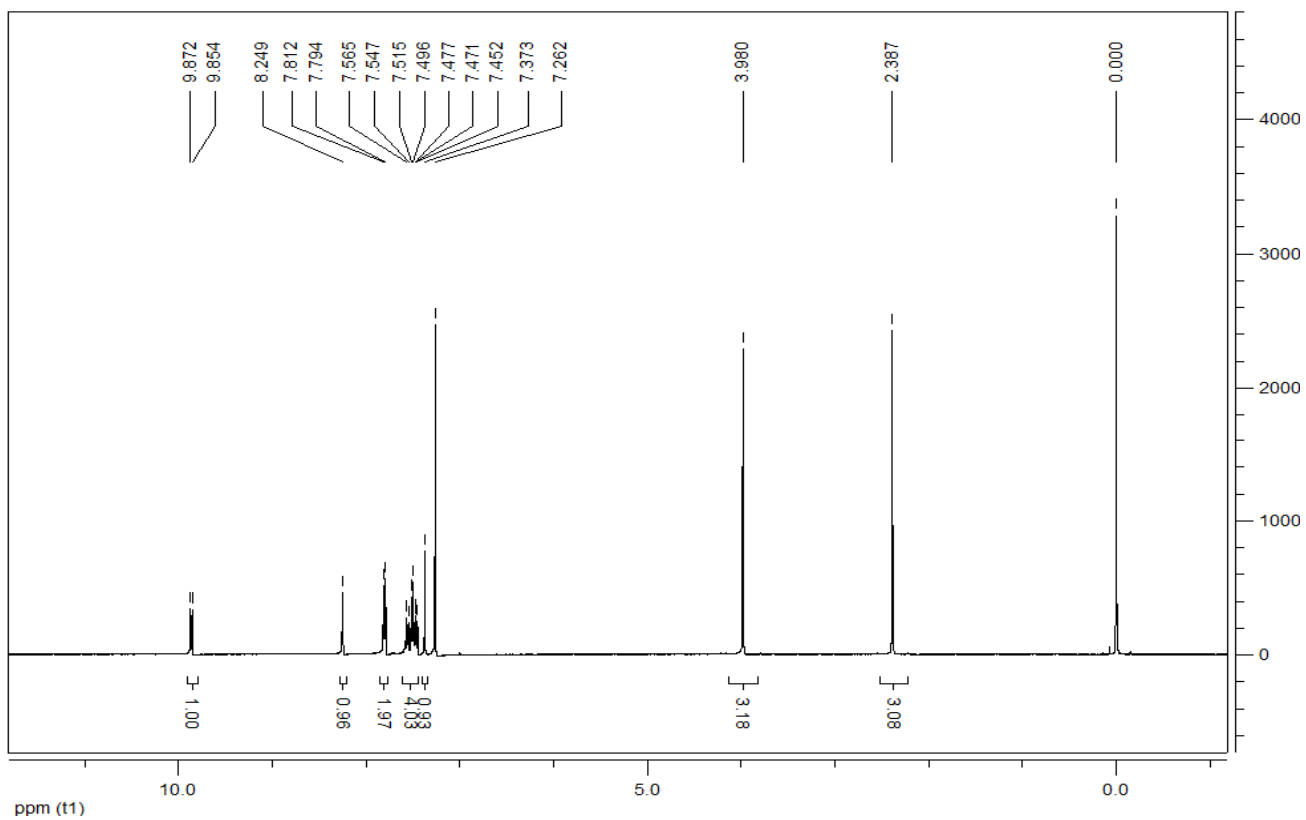
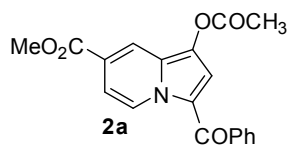
<sup>b</sup> School of Chemistry and Chemical Engineering, Shaoxing University, Shaoxing, Zhejiang, P. R. China

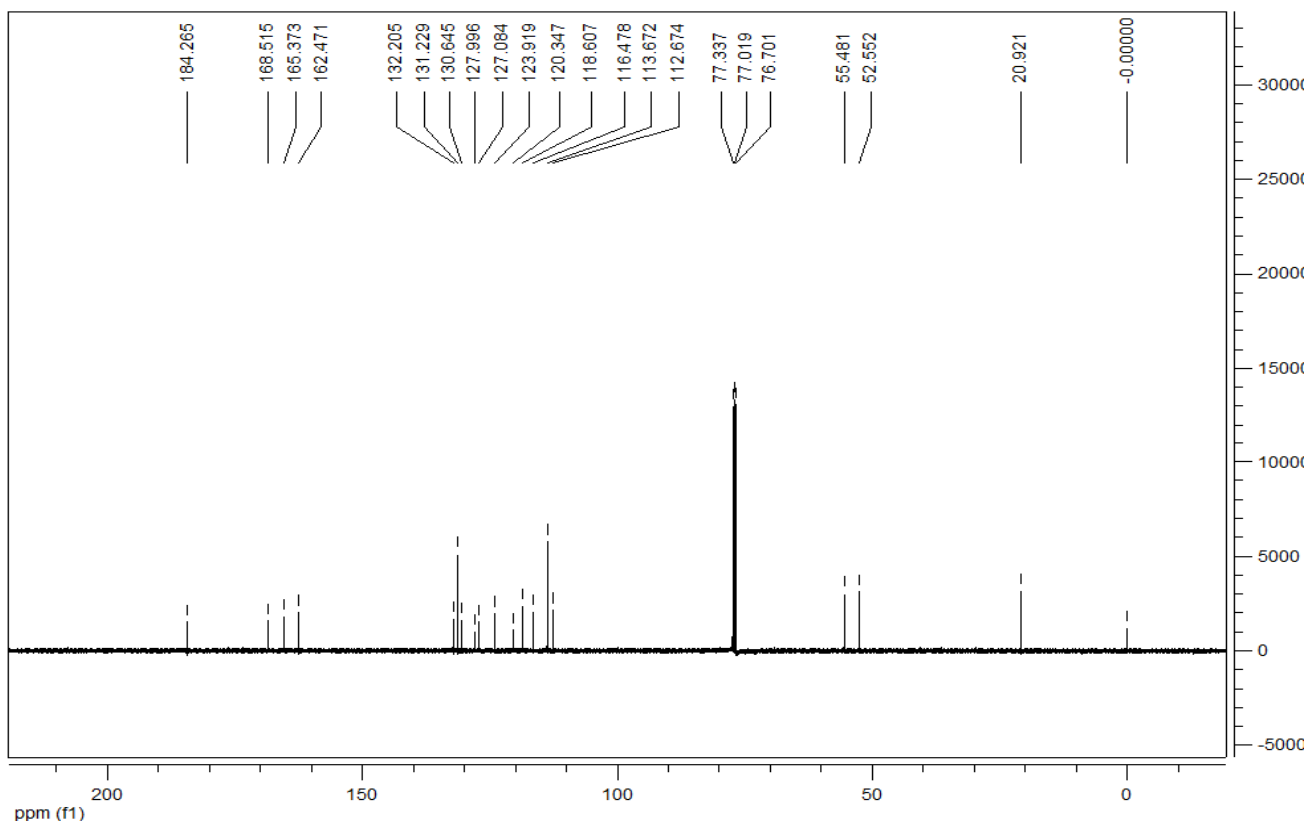
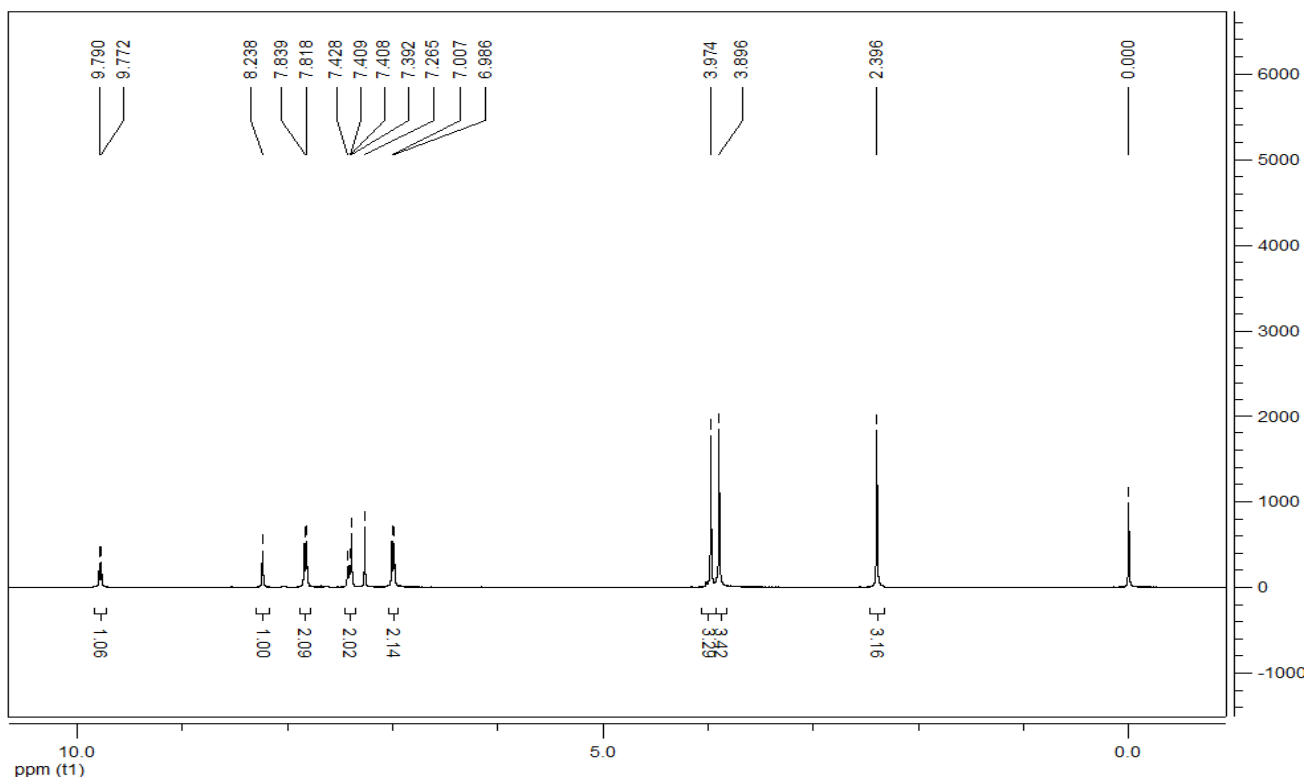
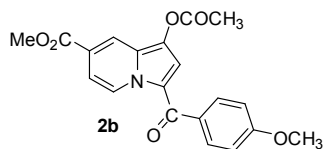
<sup>c</sup> School of Chemistry and Chemical Engineering, Nanjing Normal University, Nanjing, 210023, Zhejiang, P. R. China

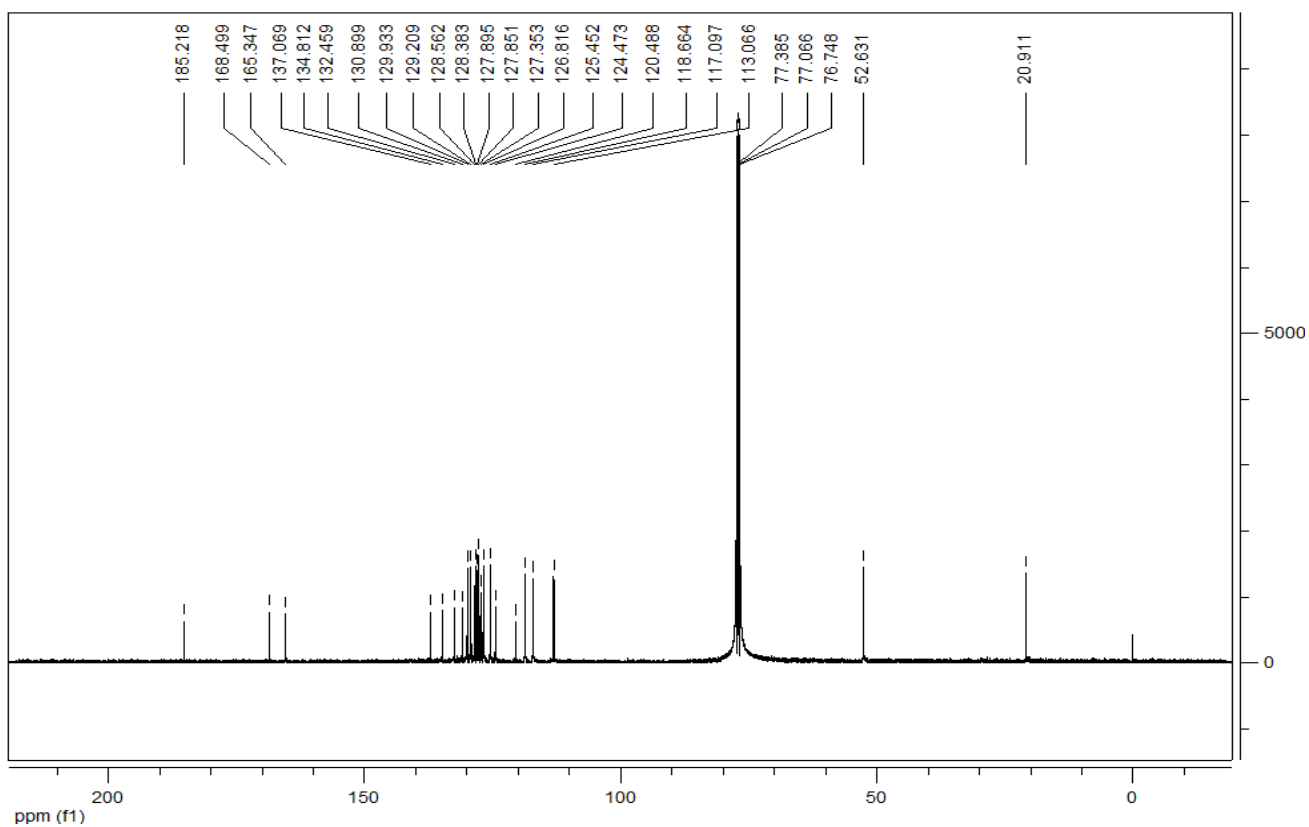
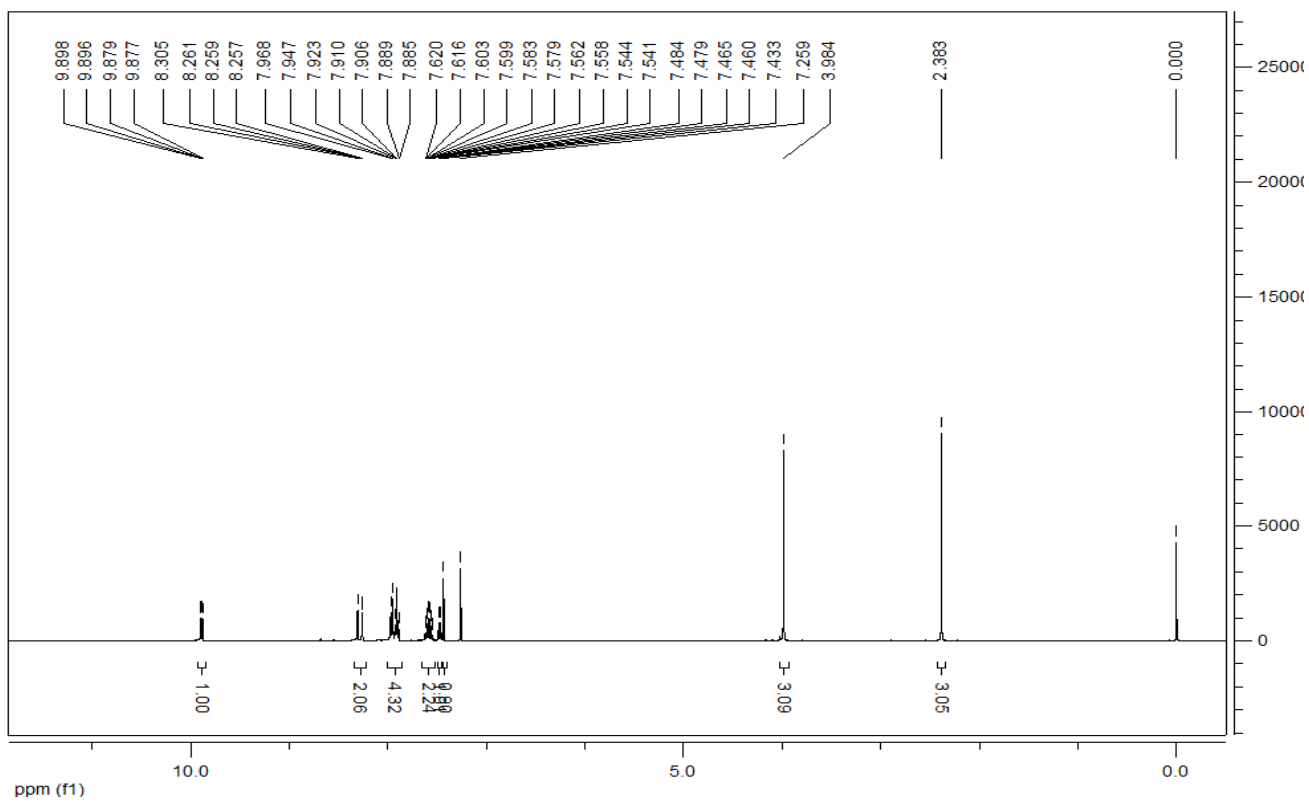
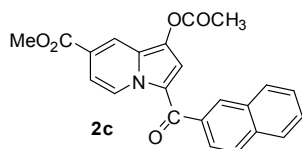
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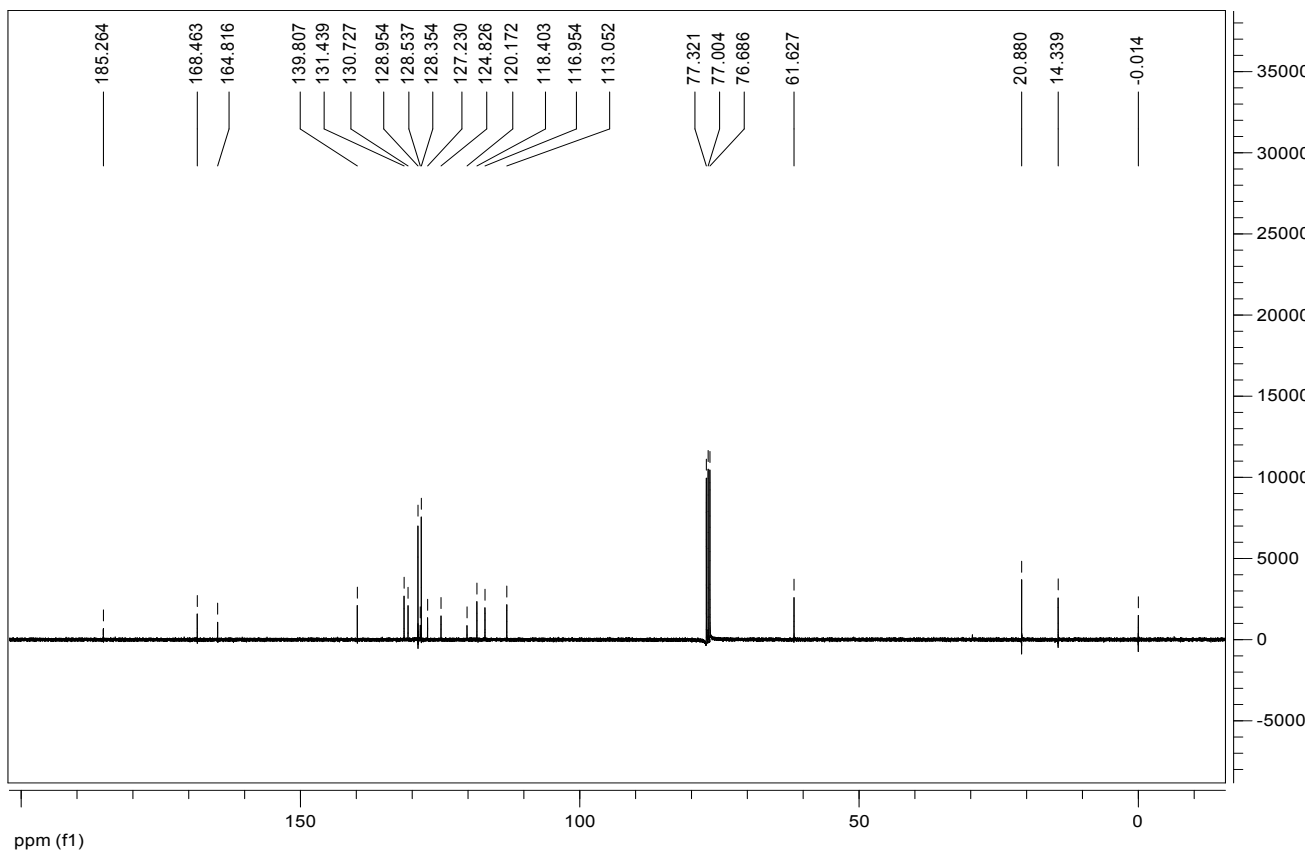
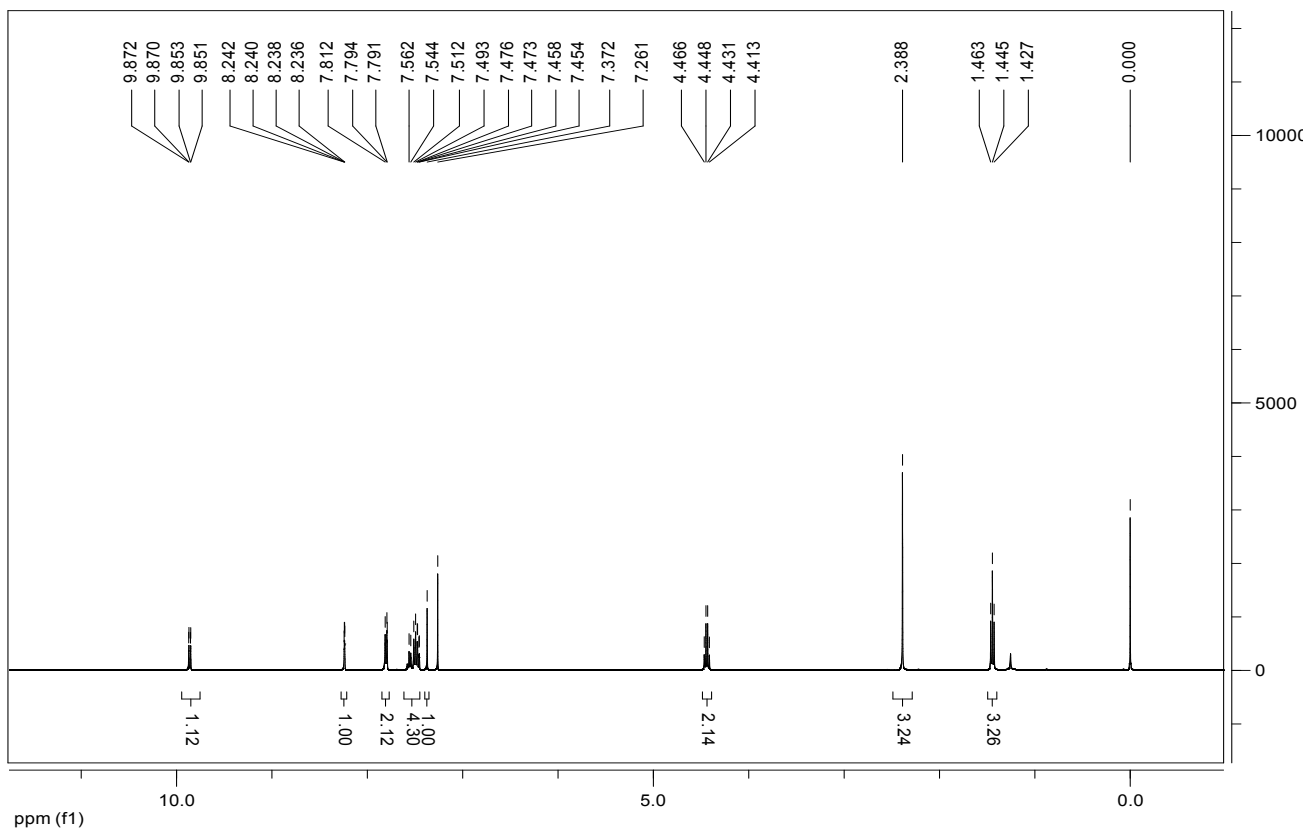
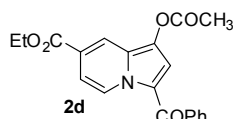
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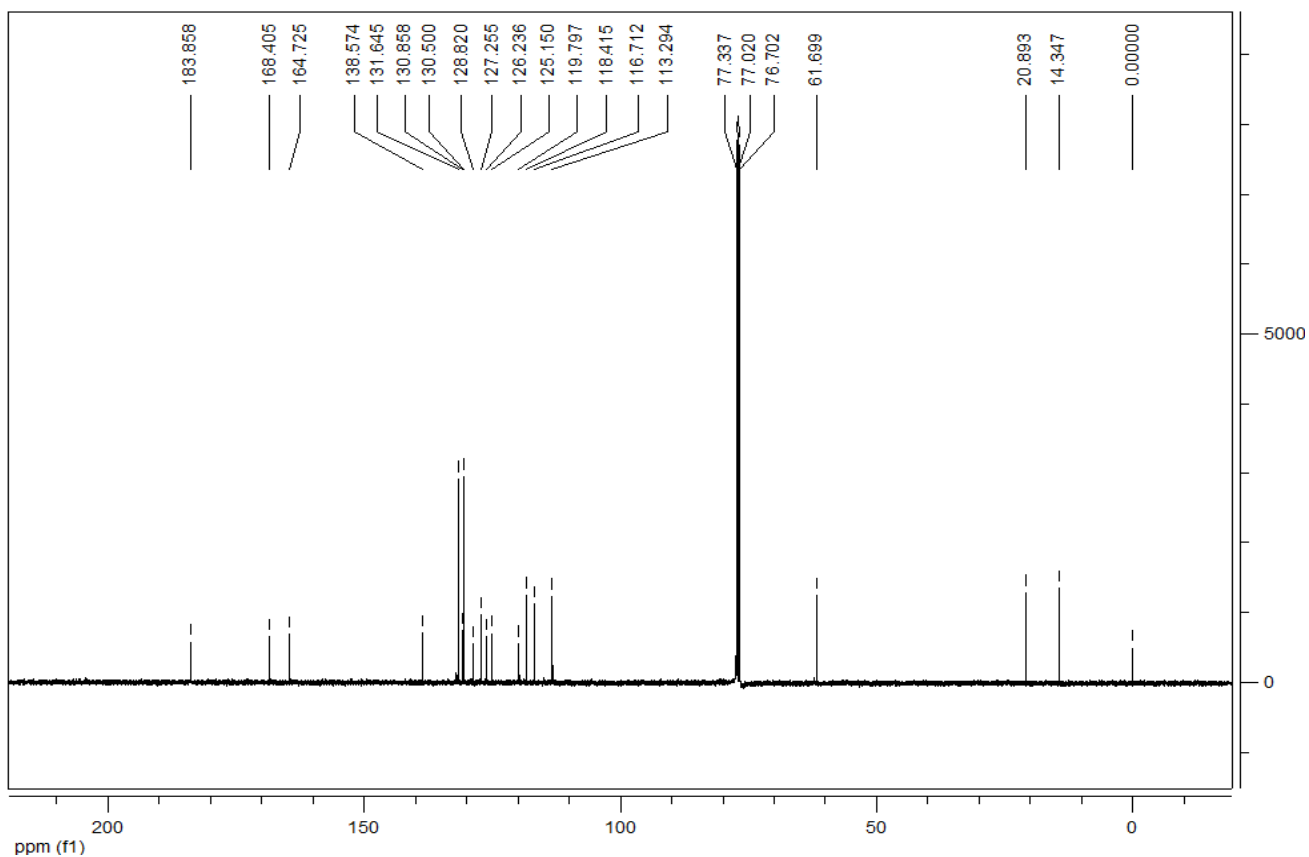
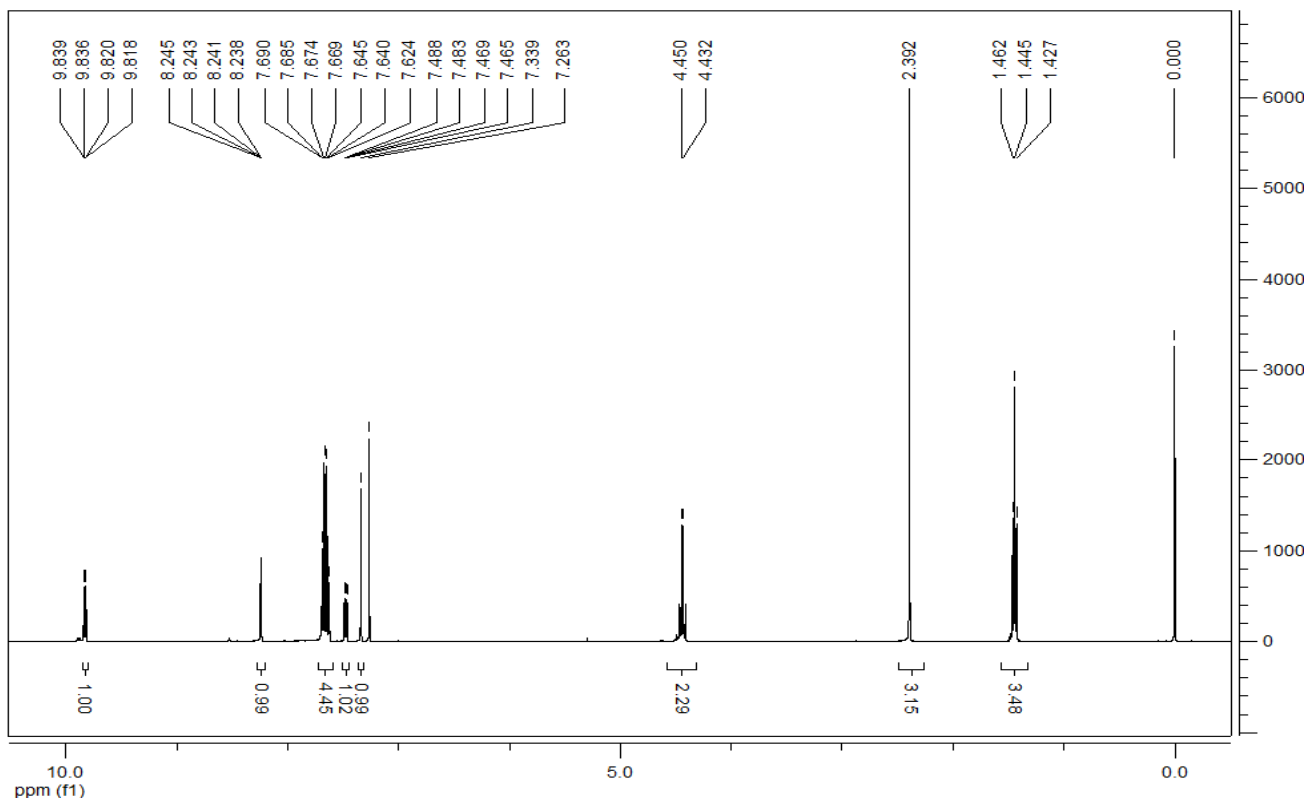
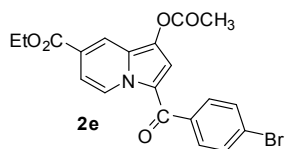
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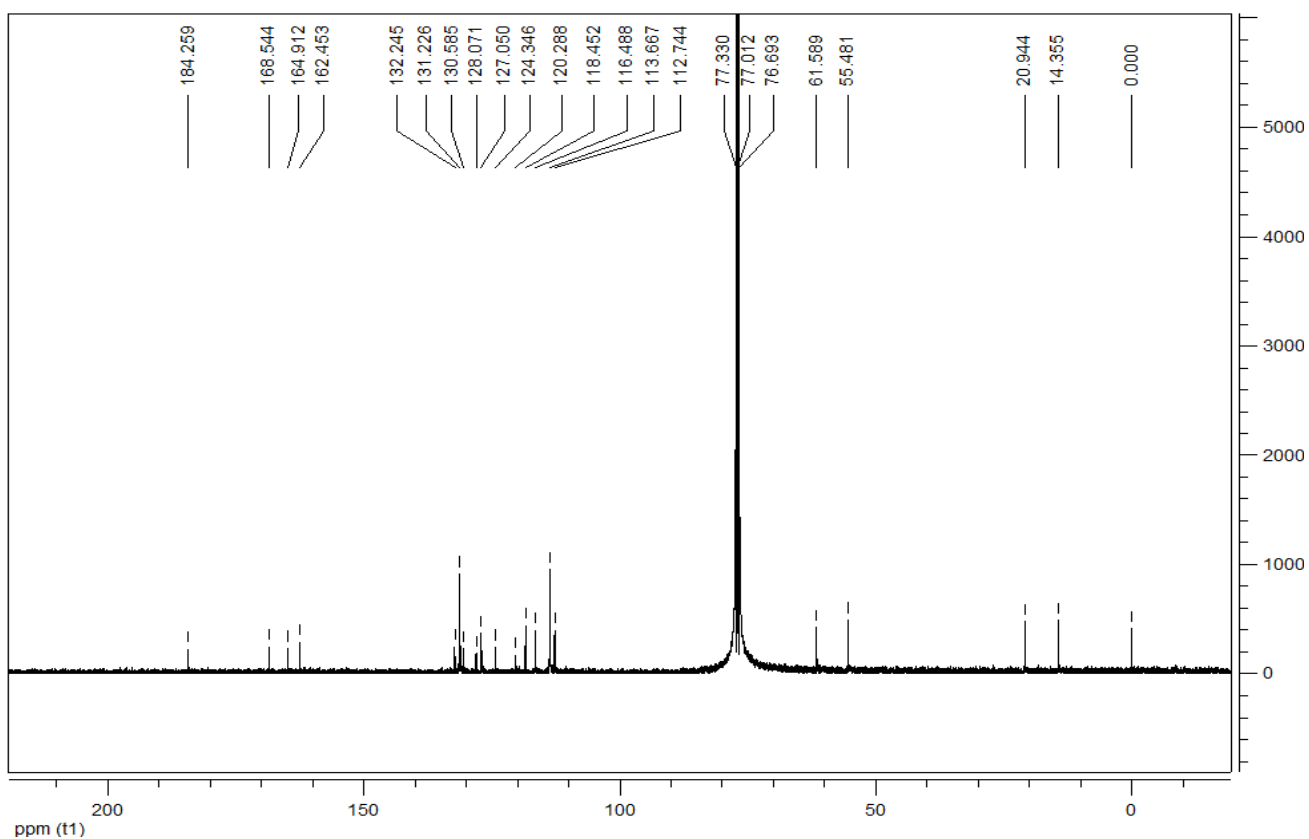
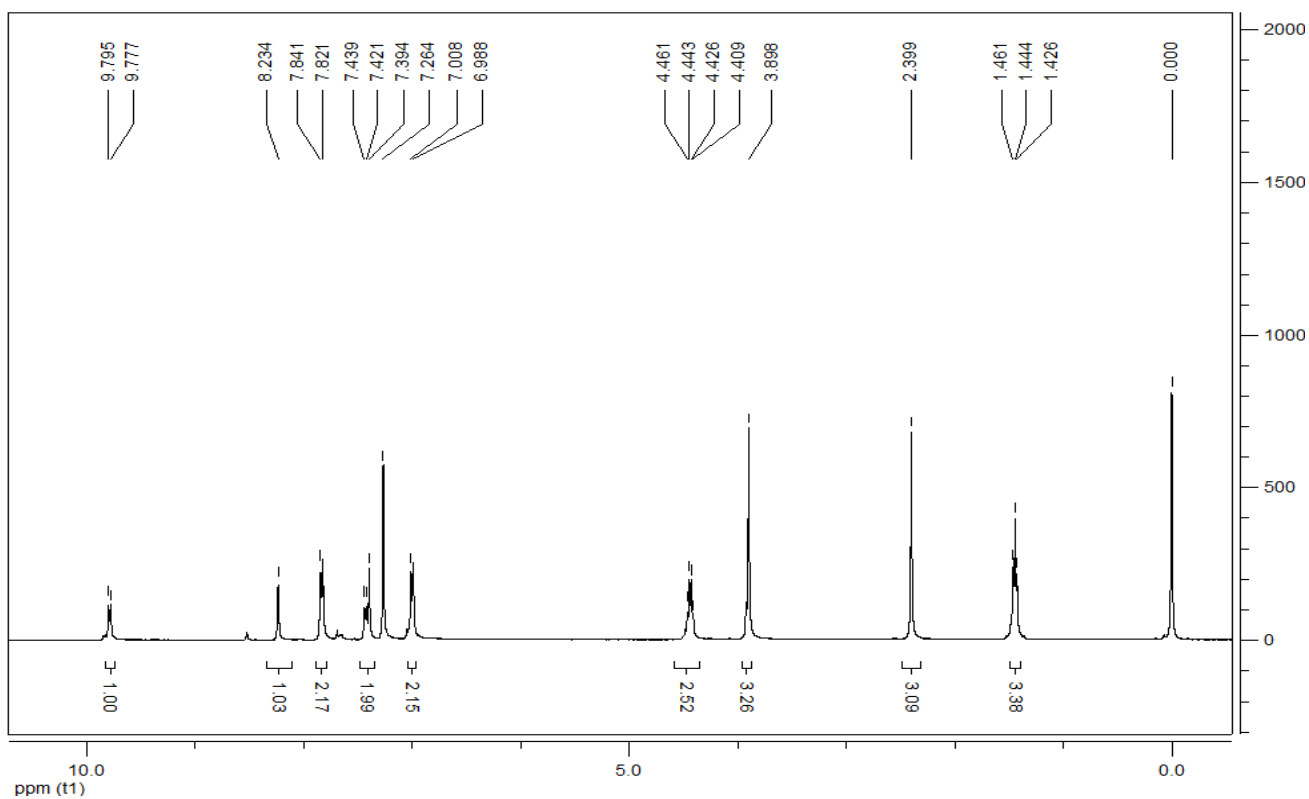
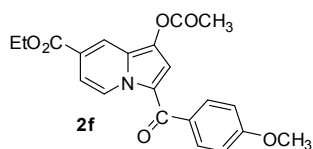


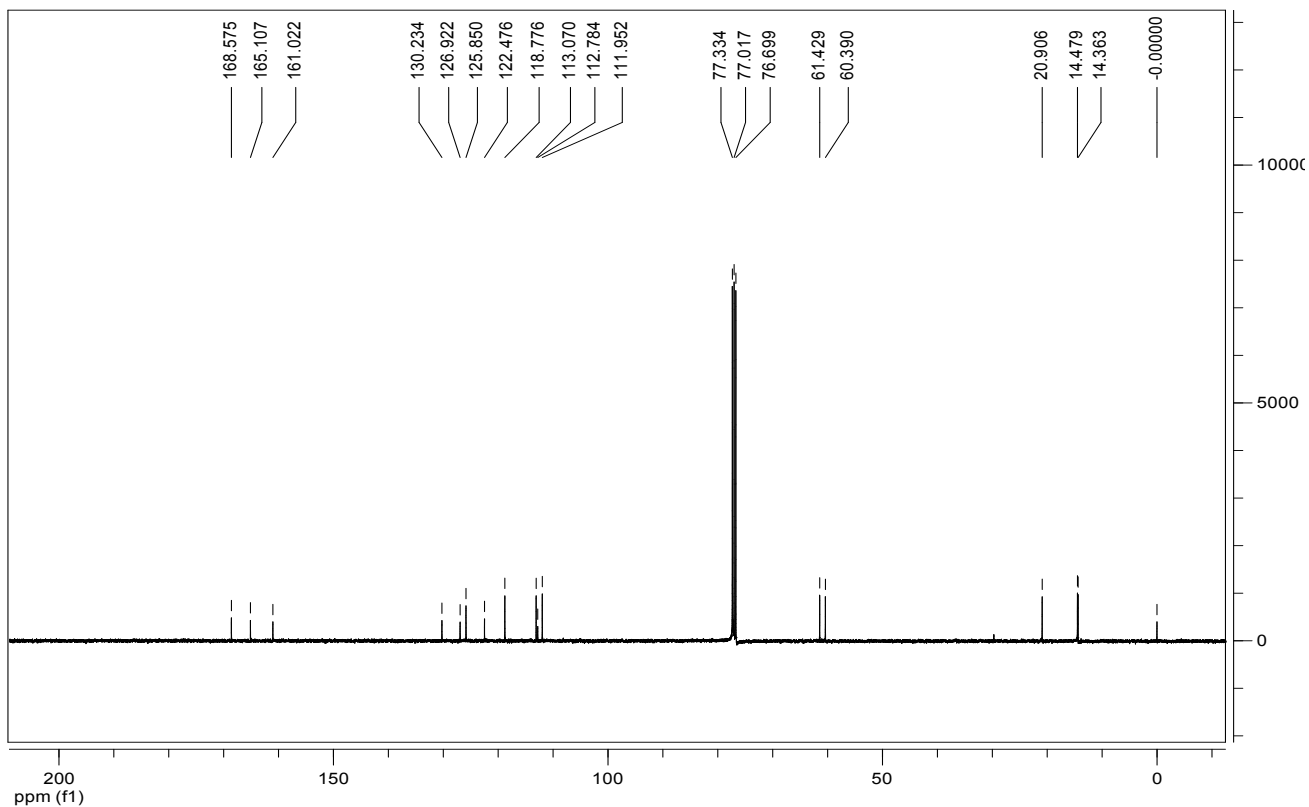
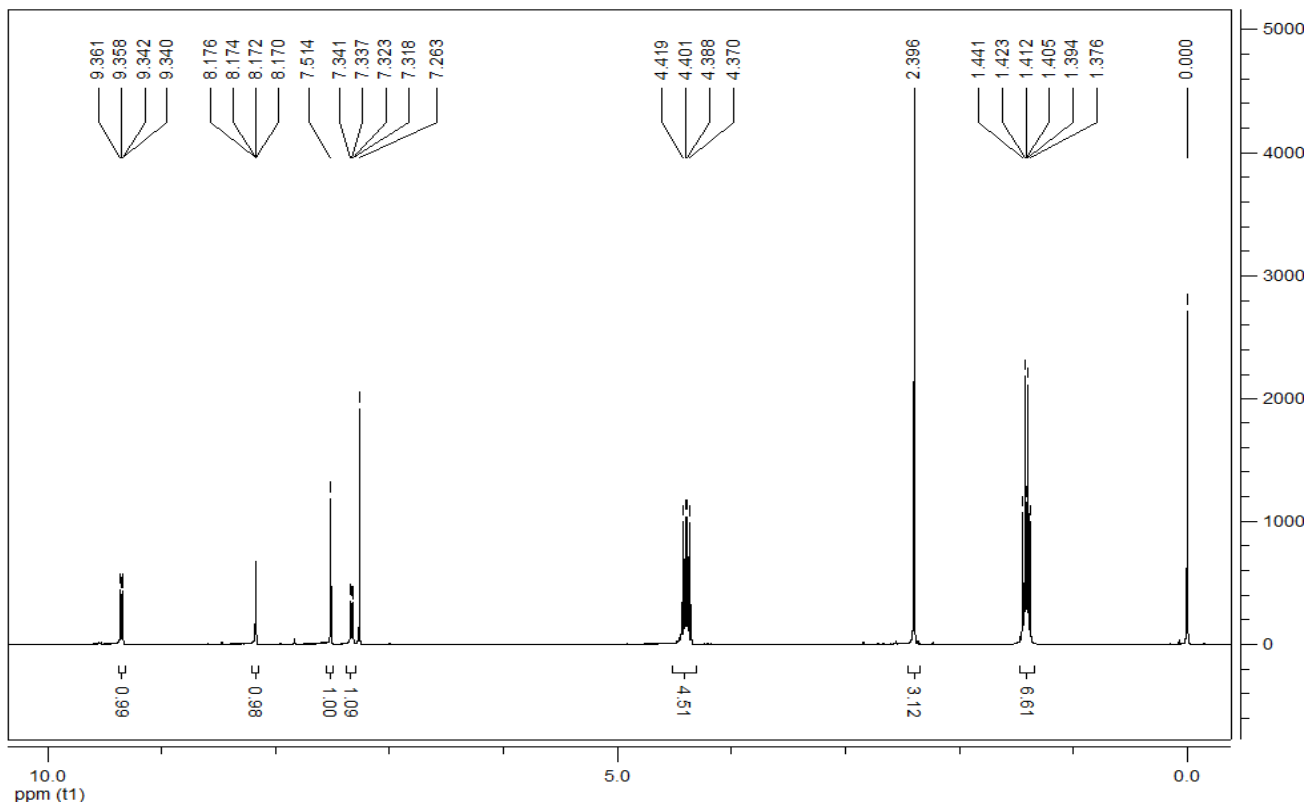
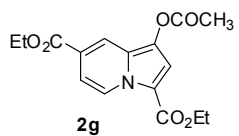




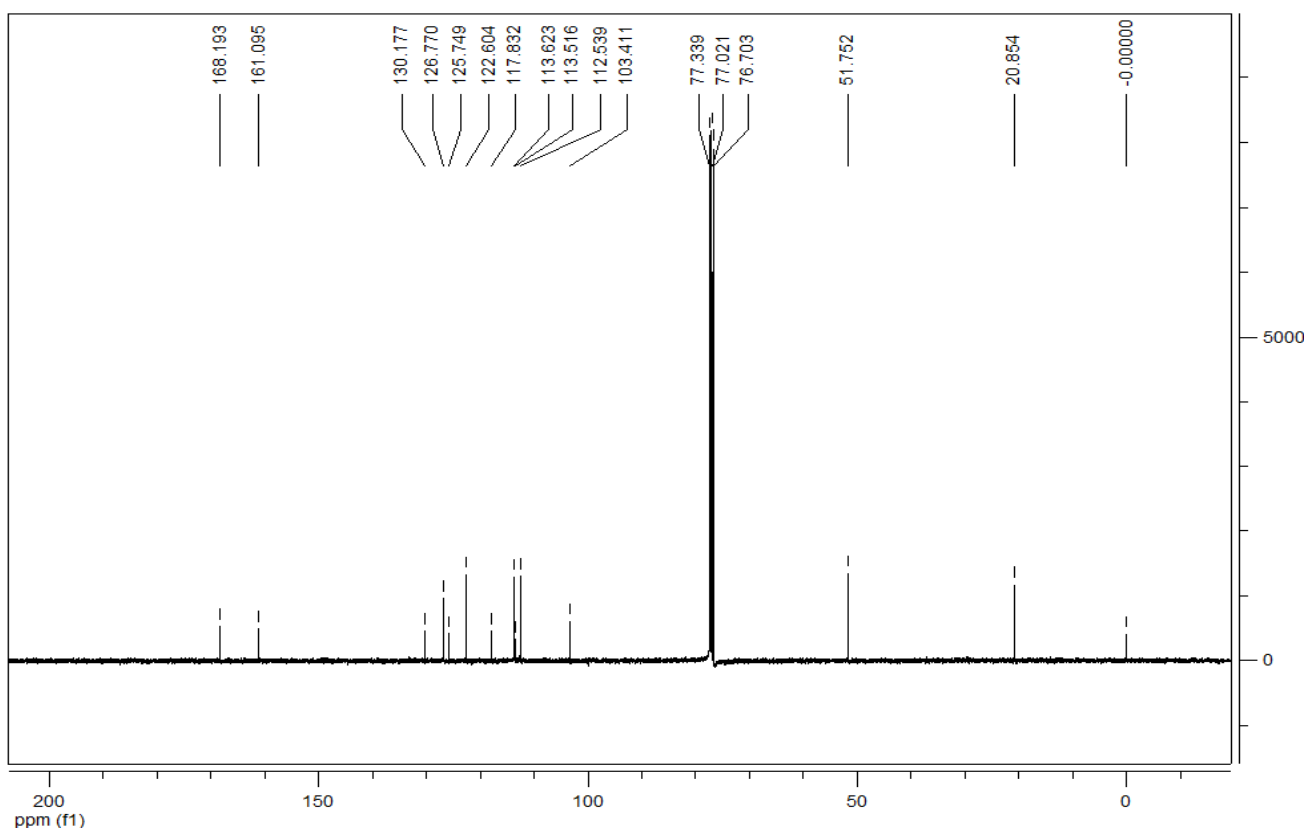
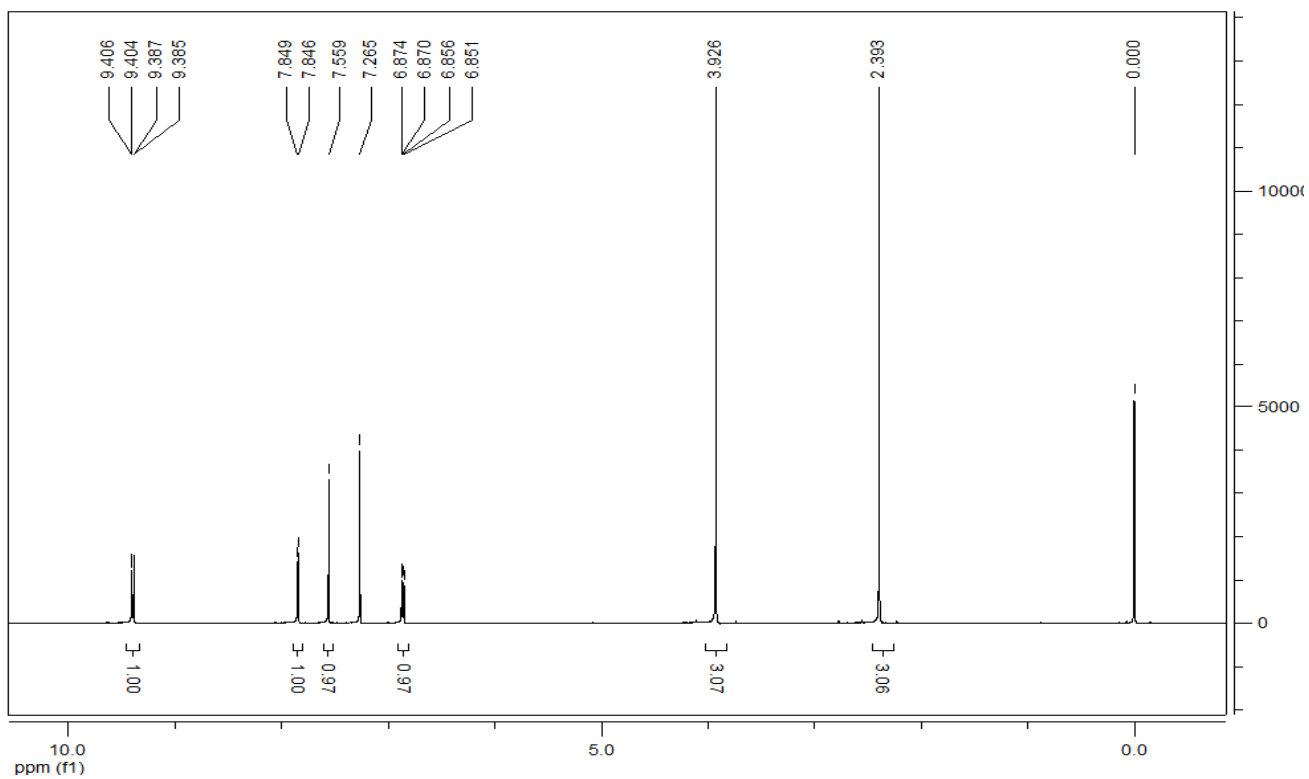
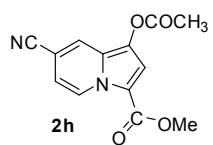


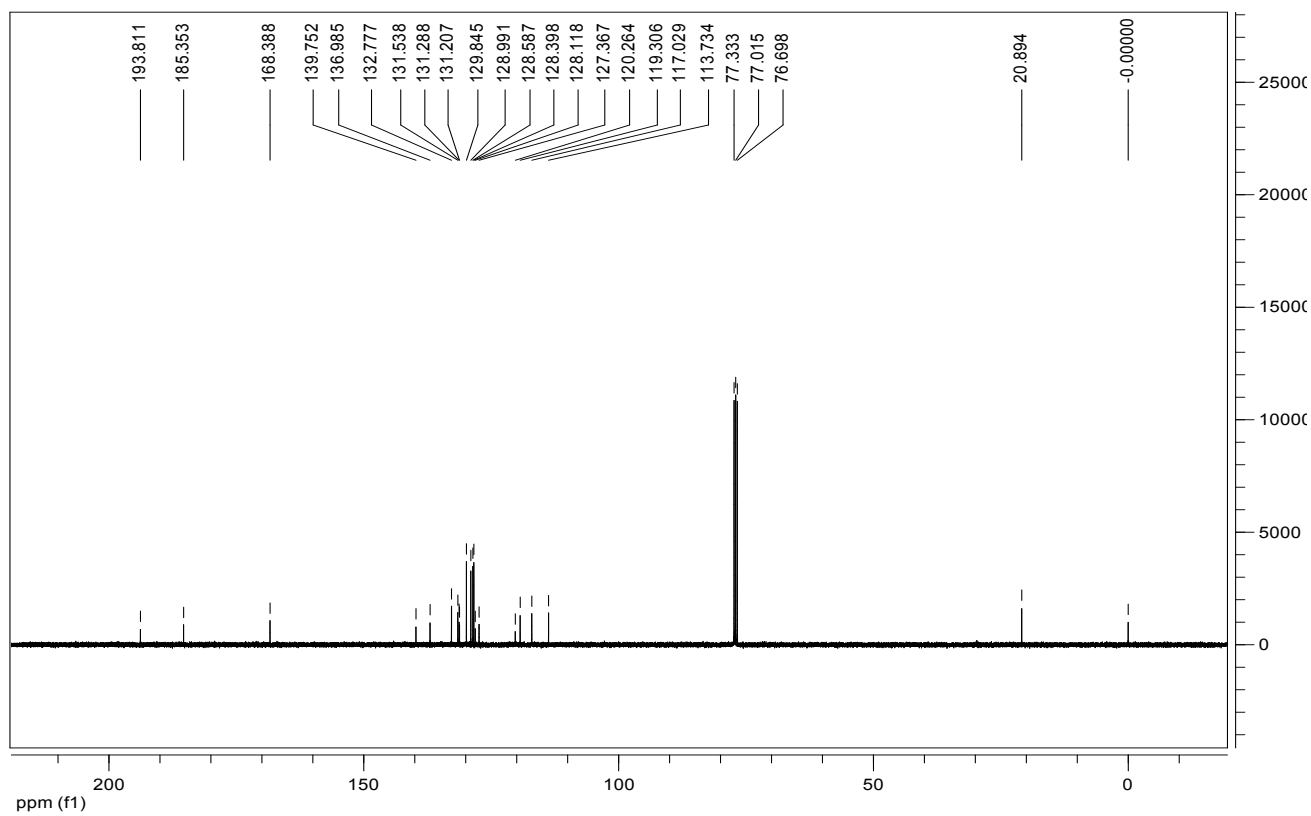
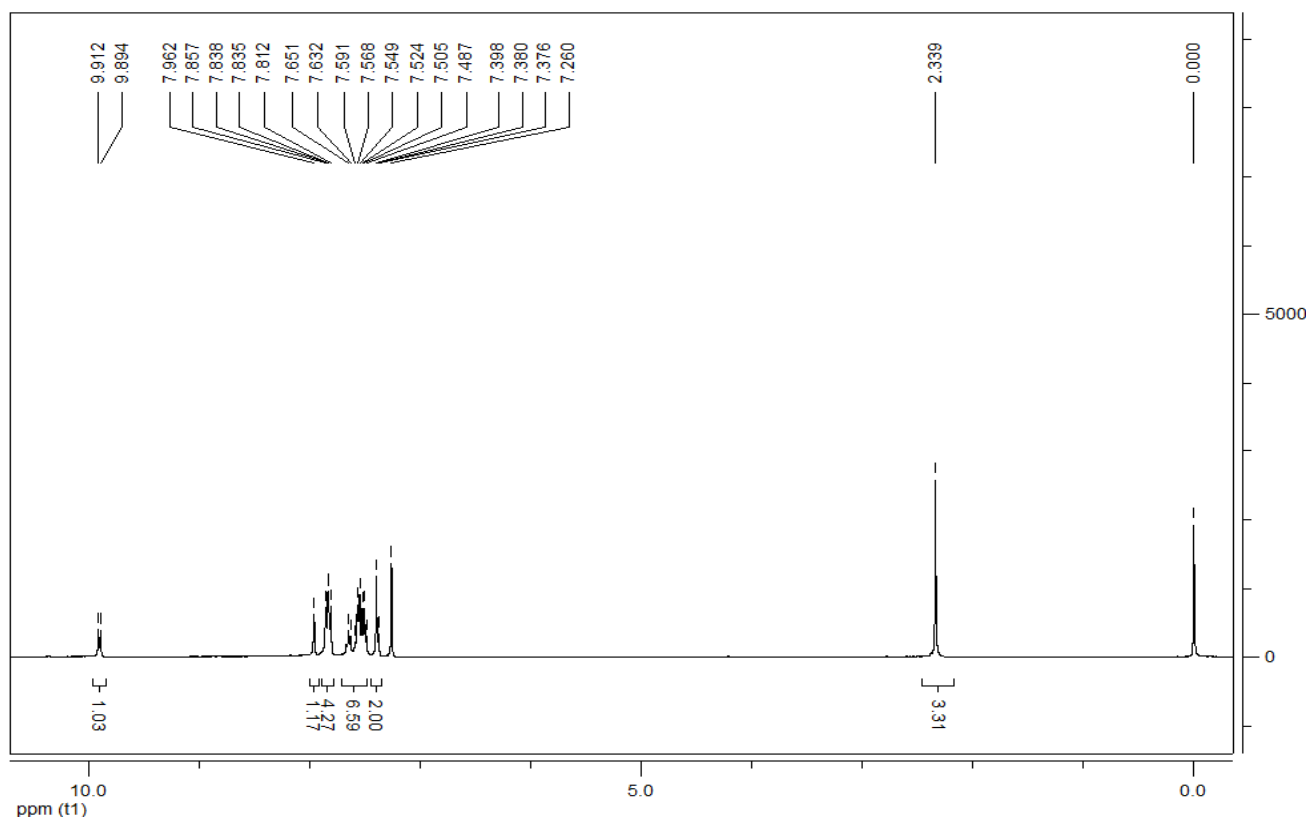
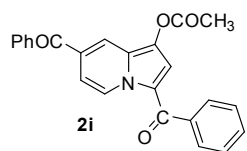


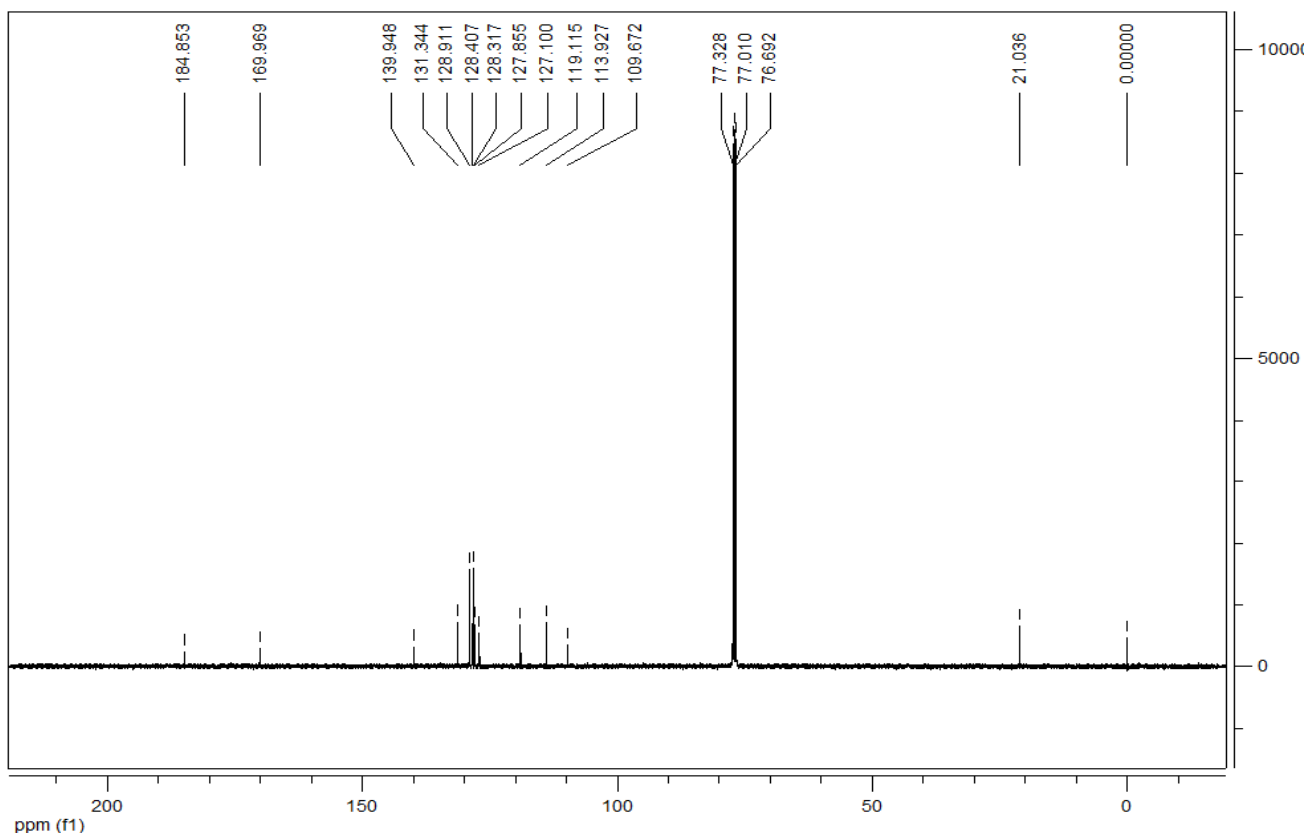
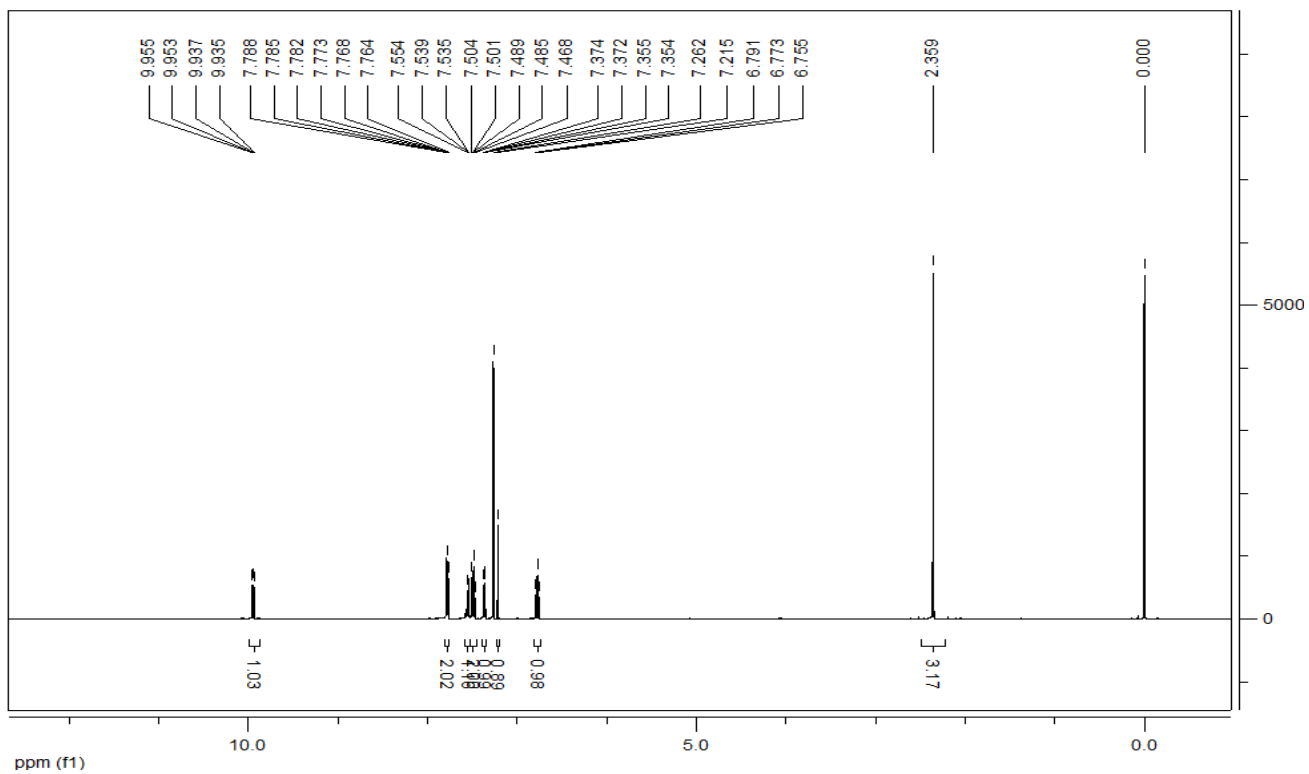
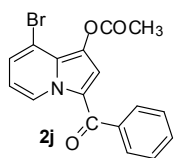


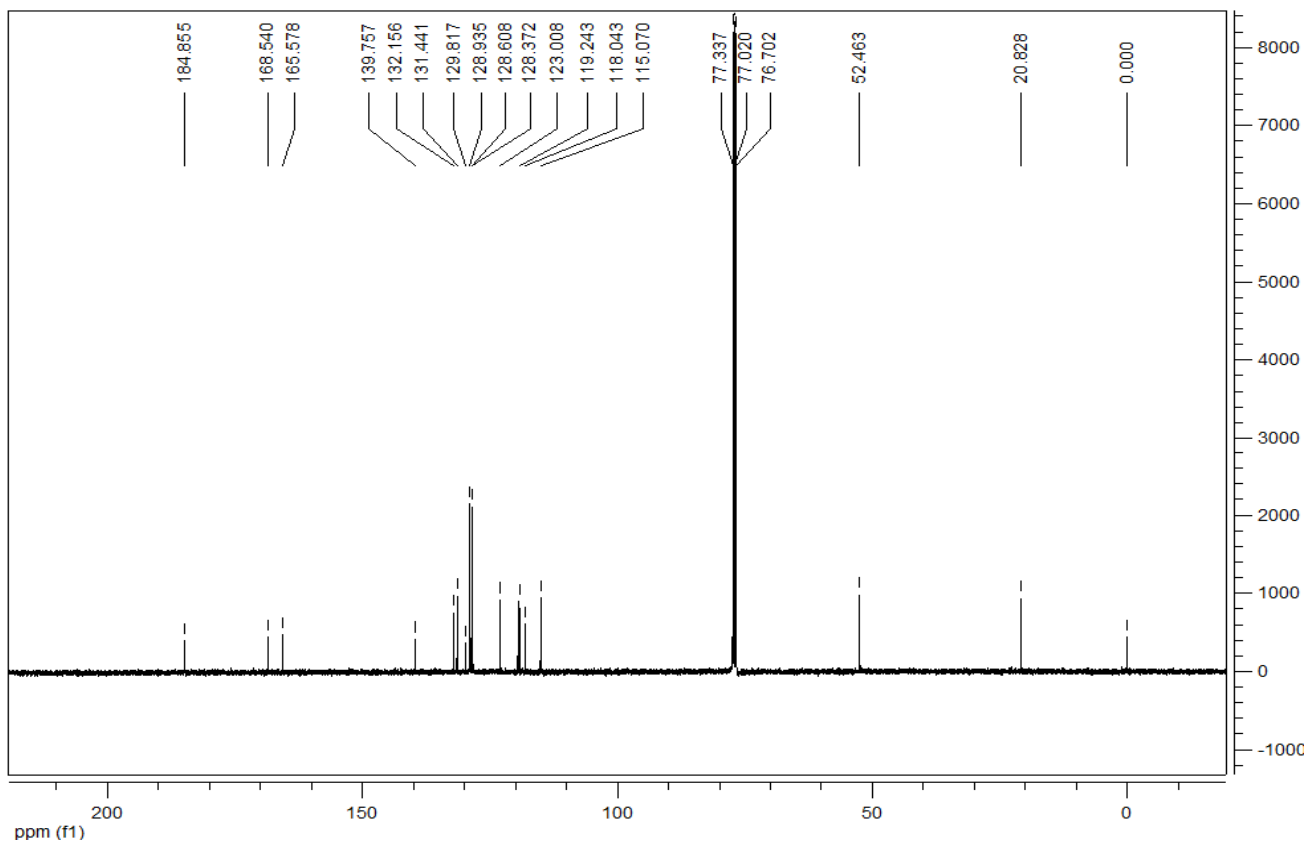
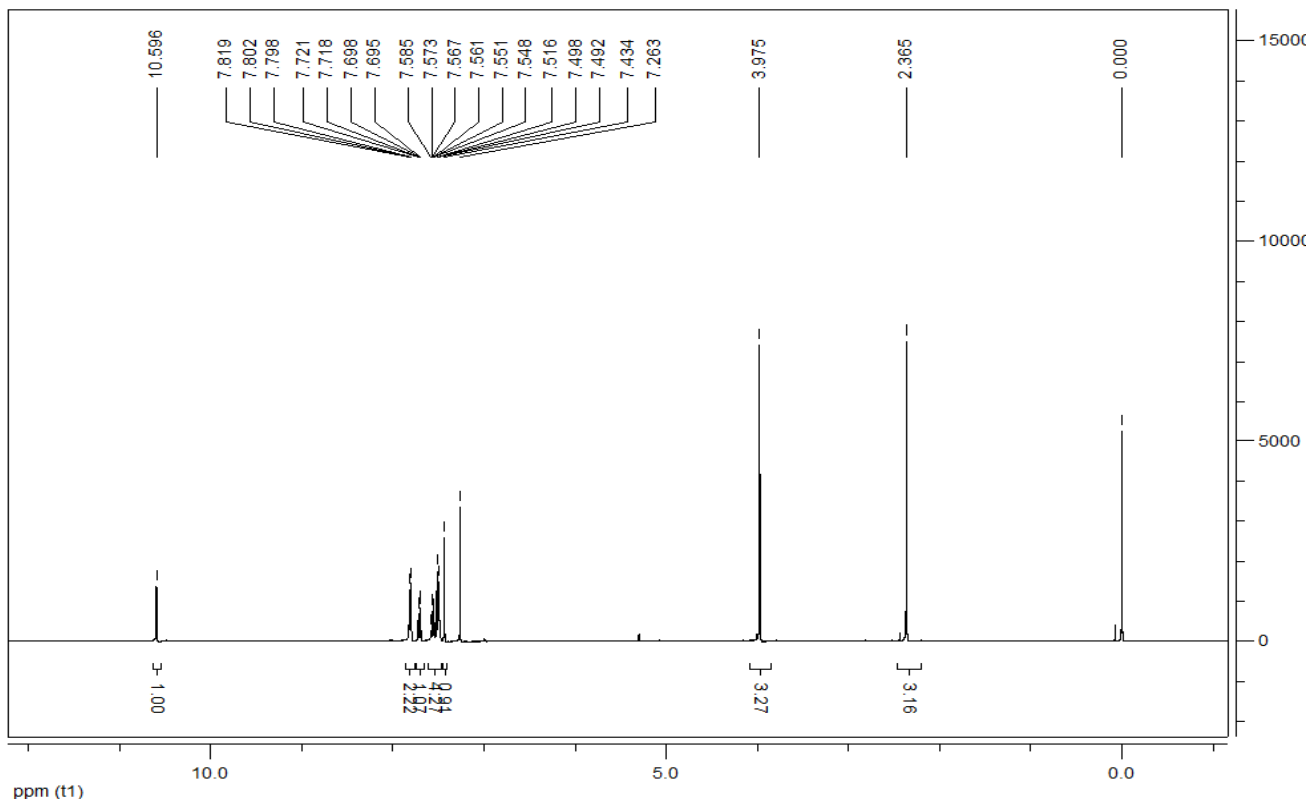
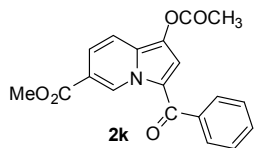


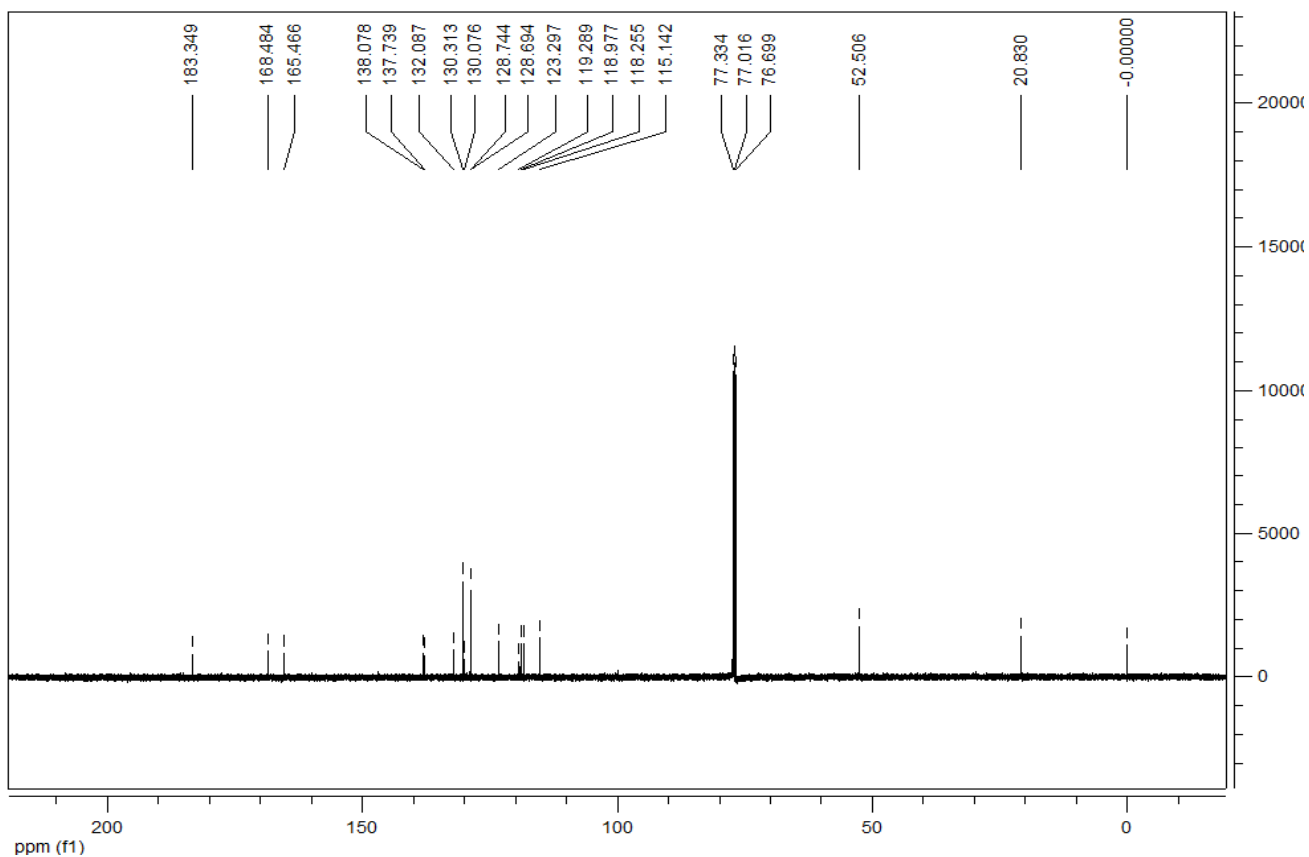
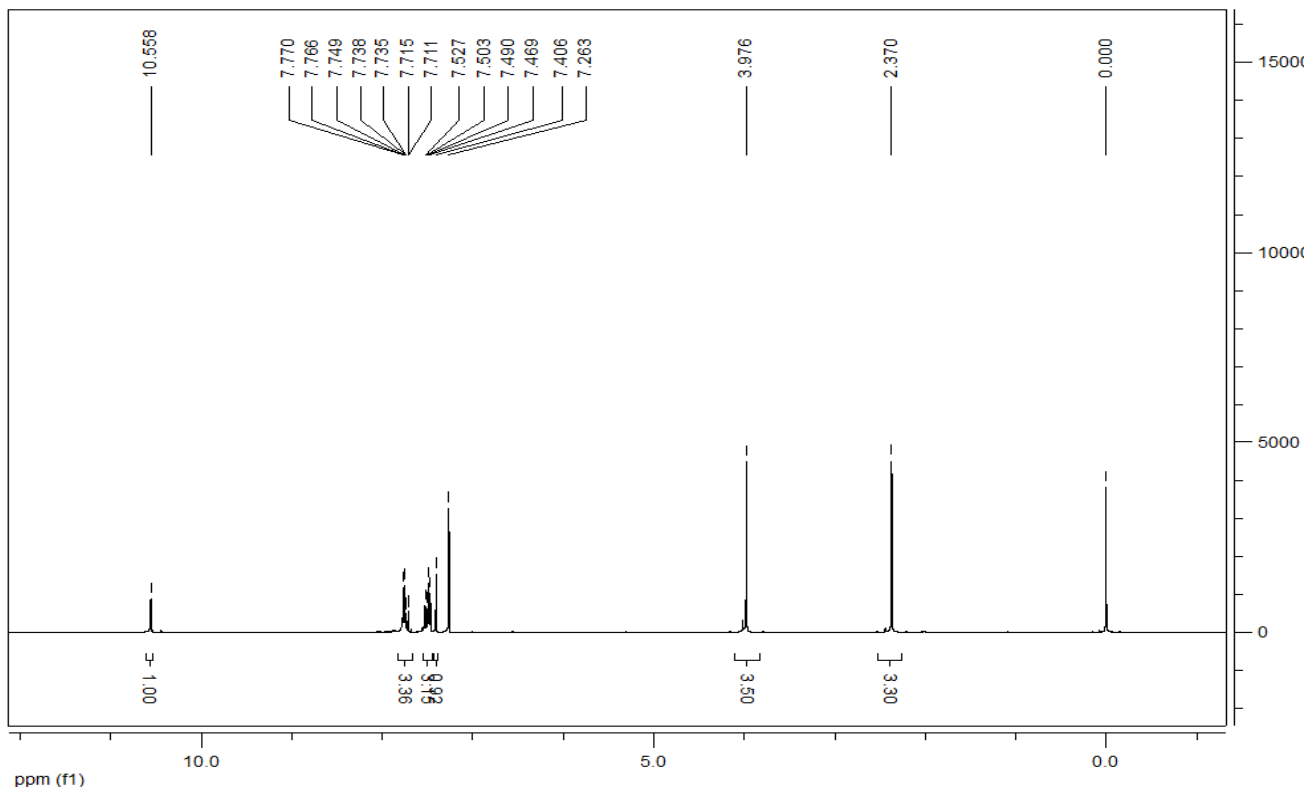
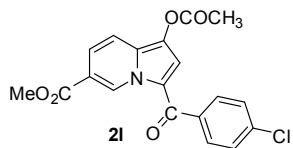


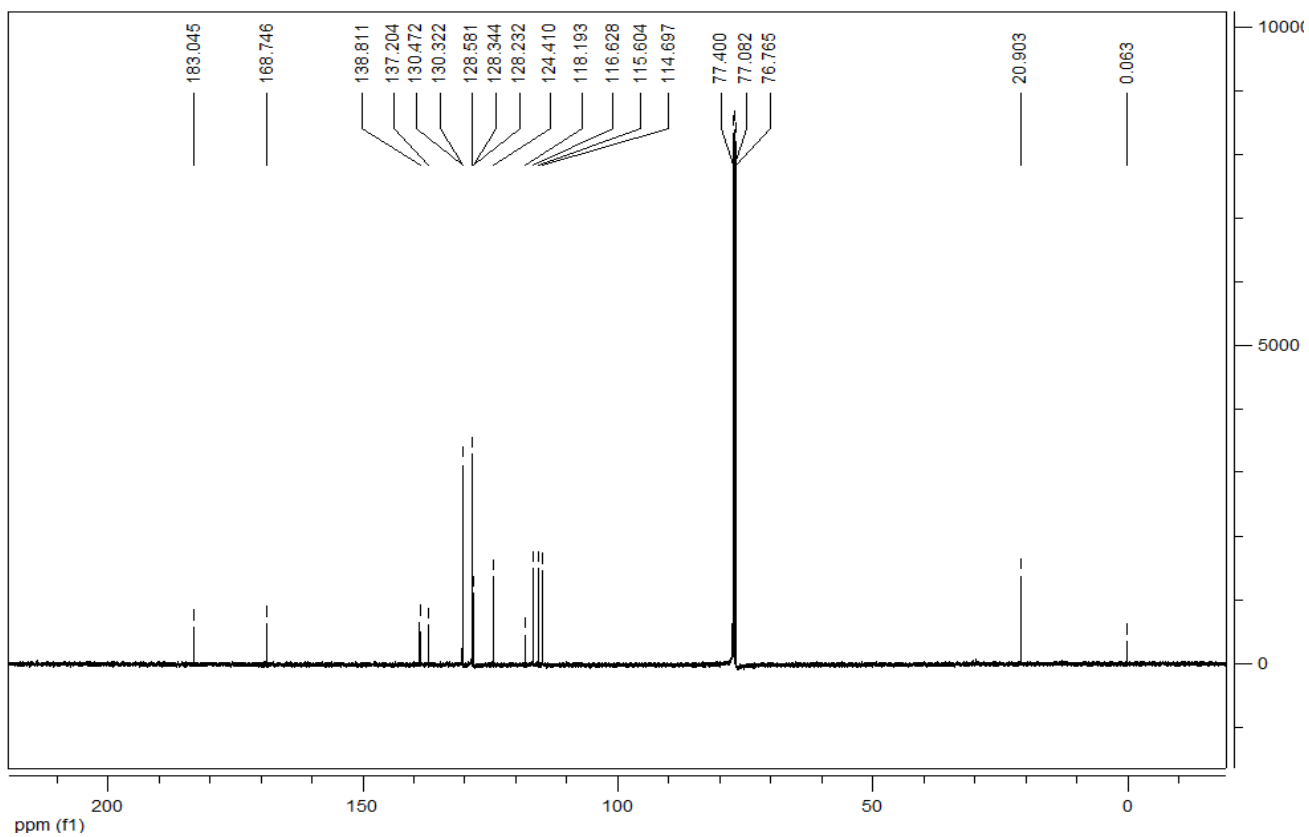
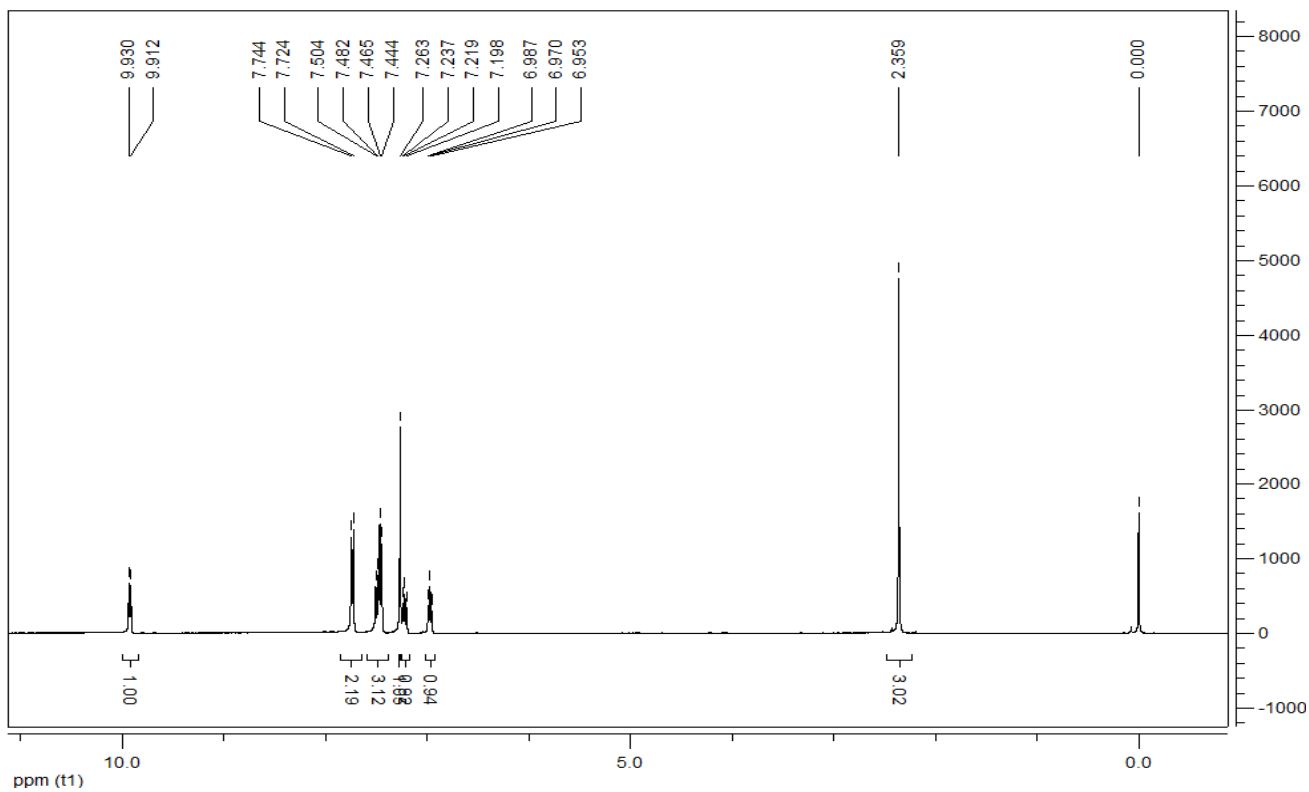
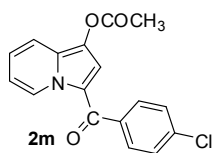


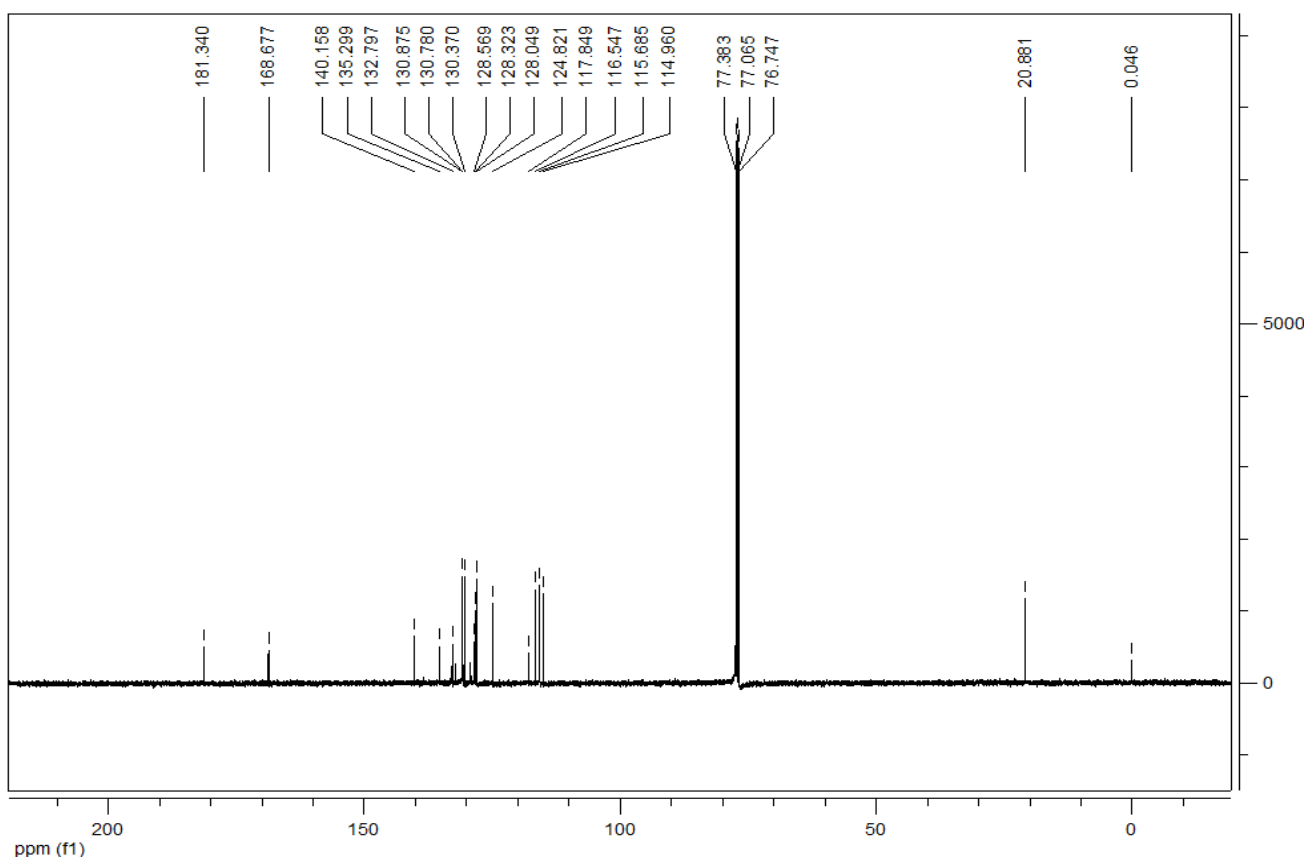
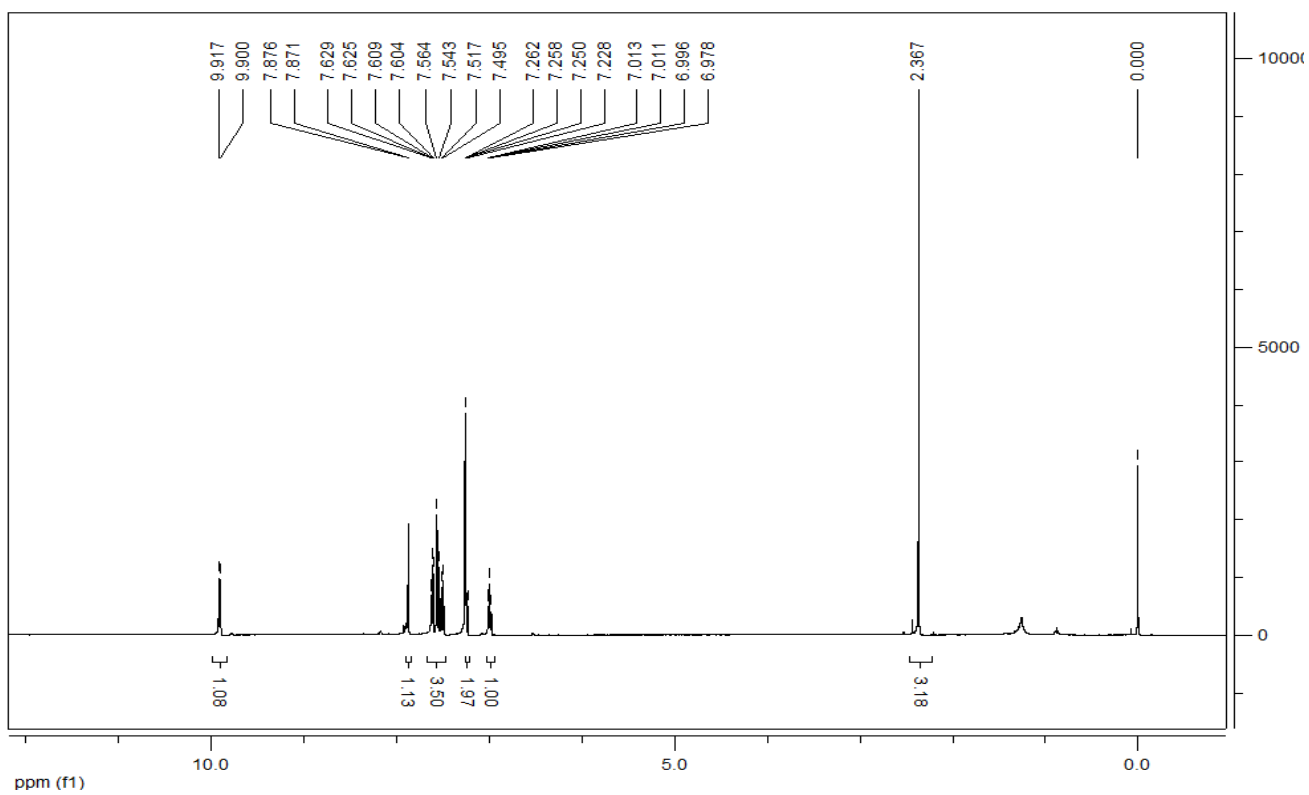
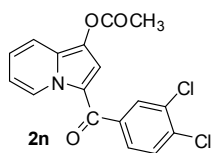


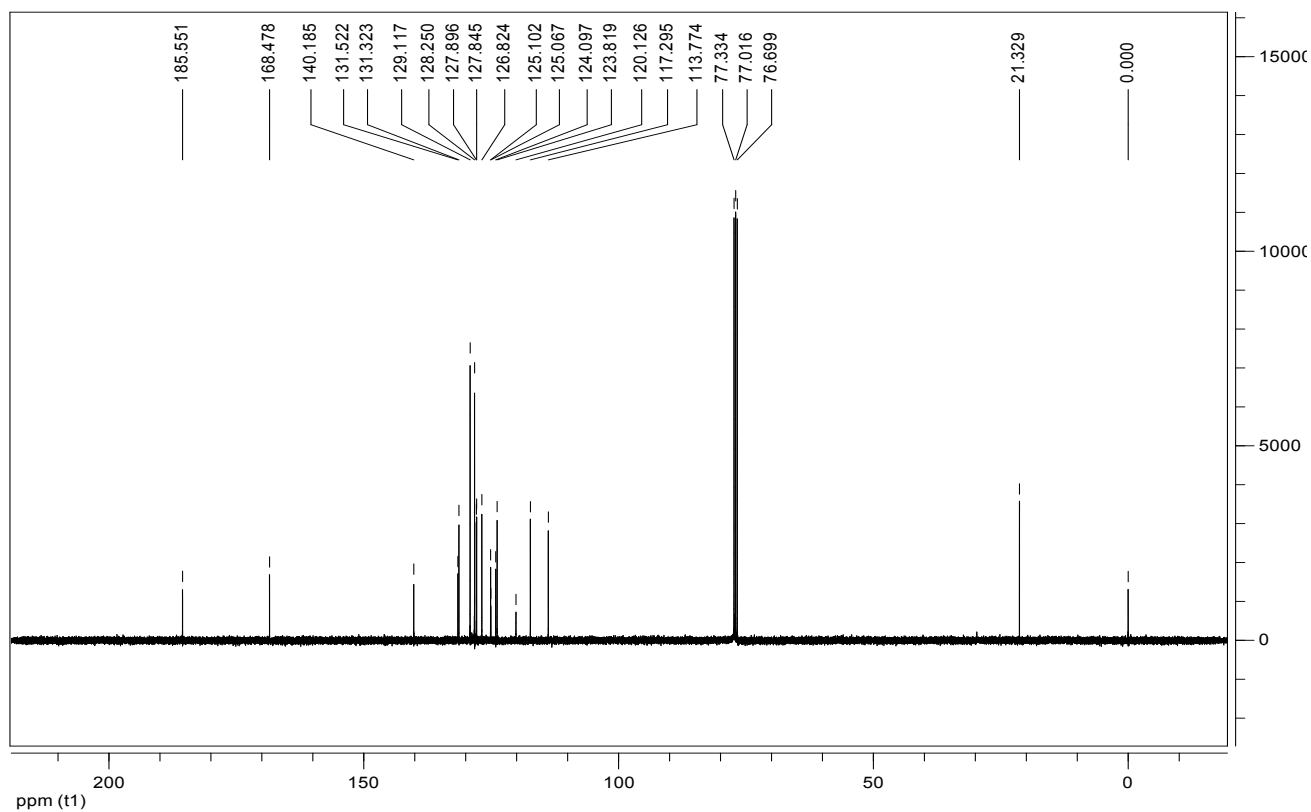
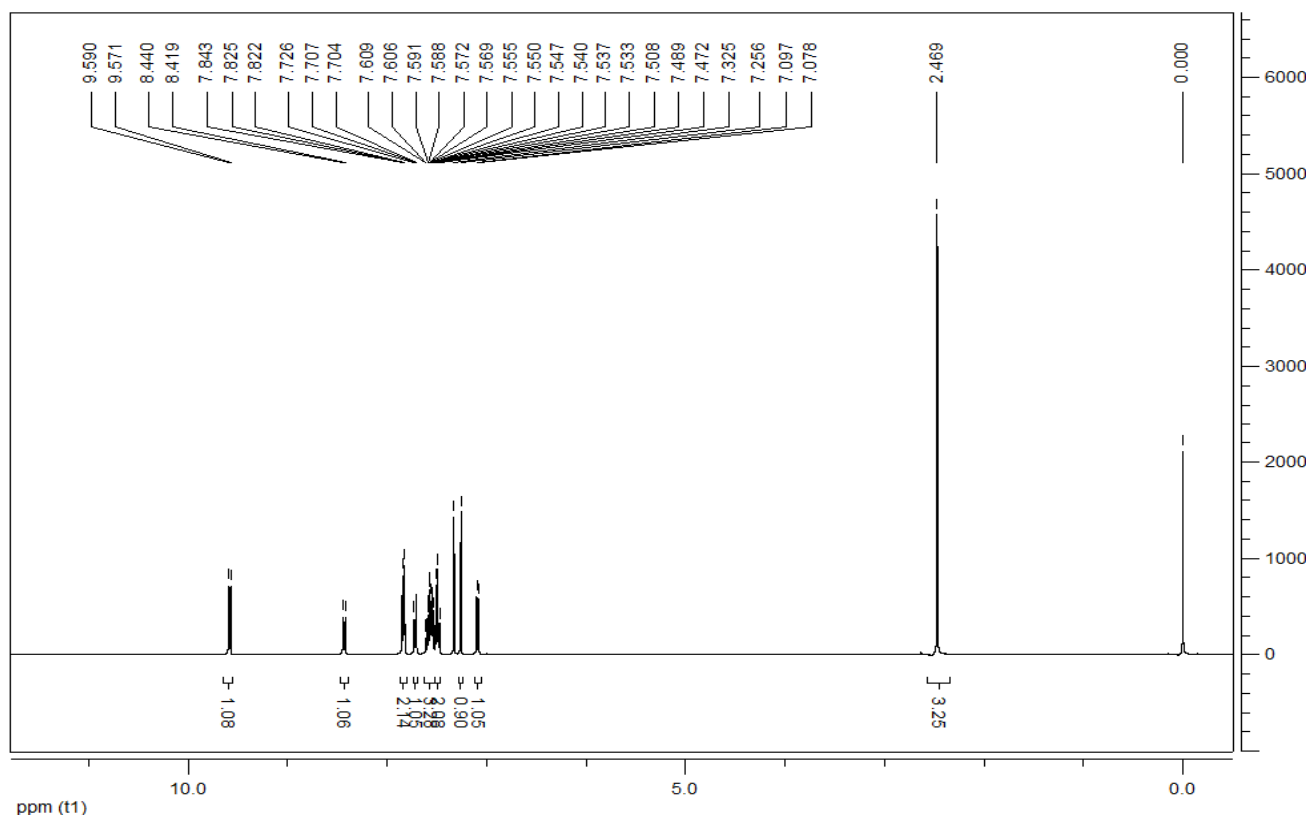
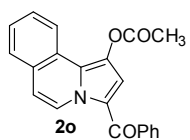




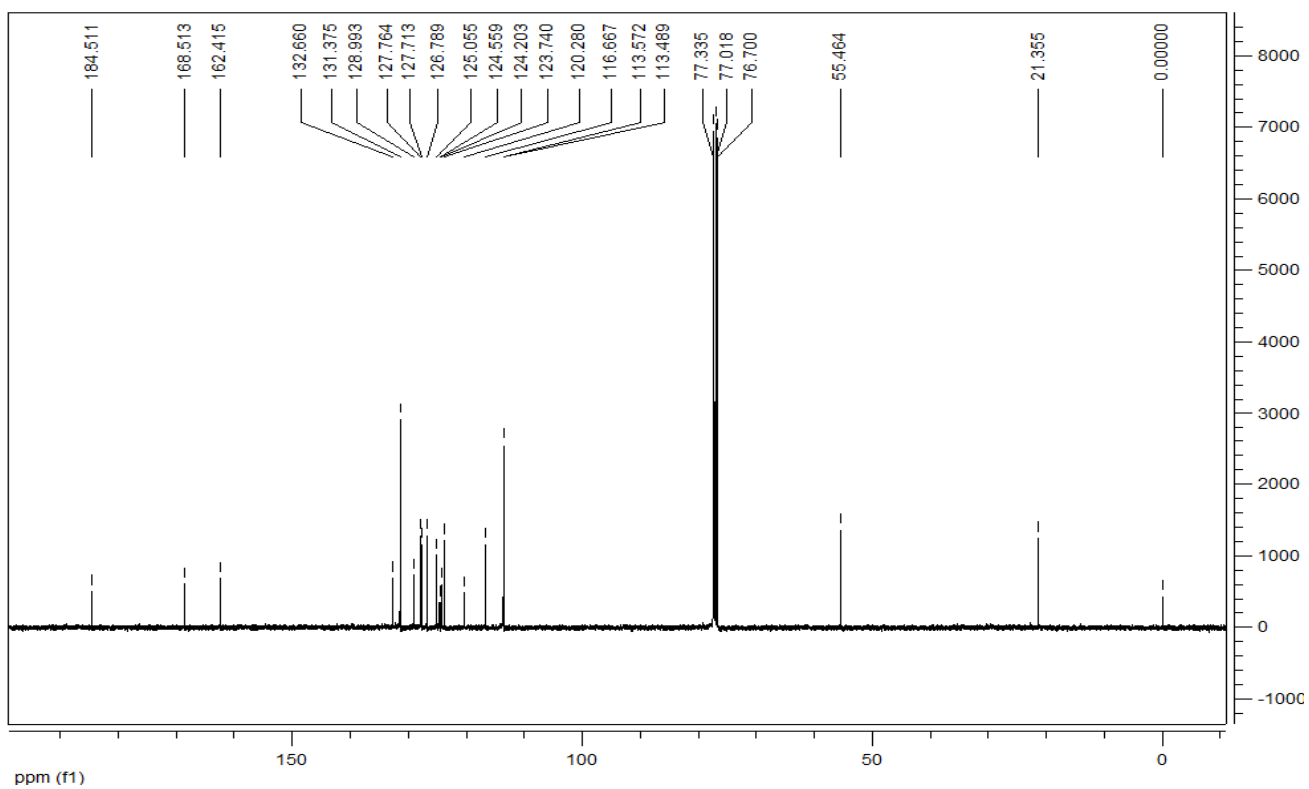
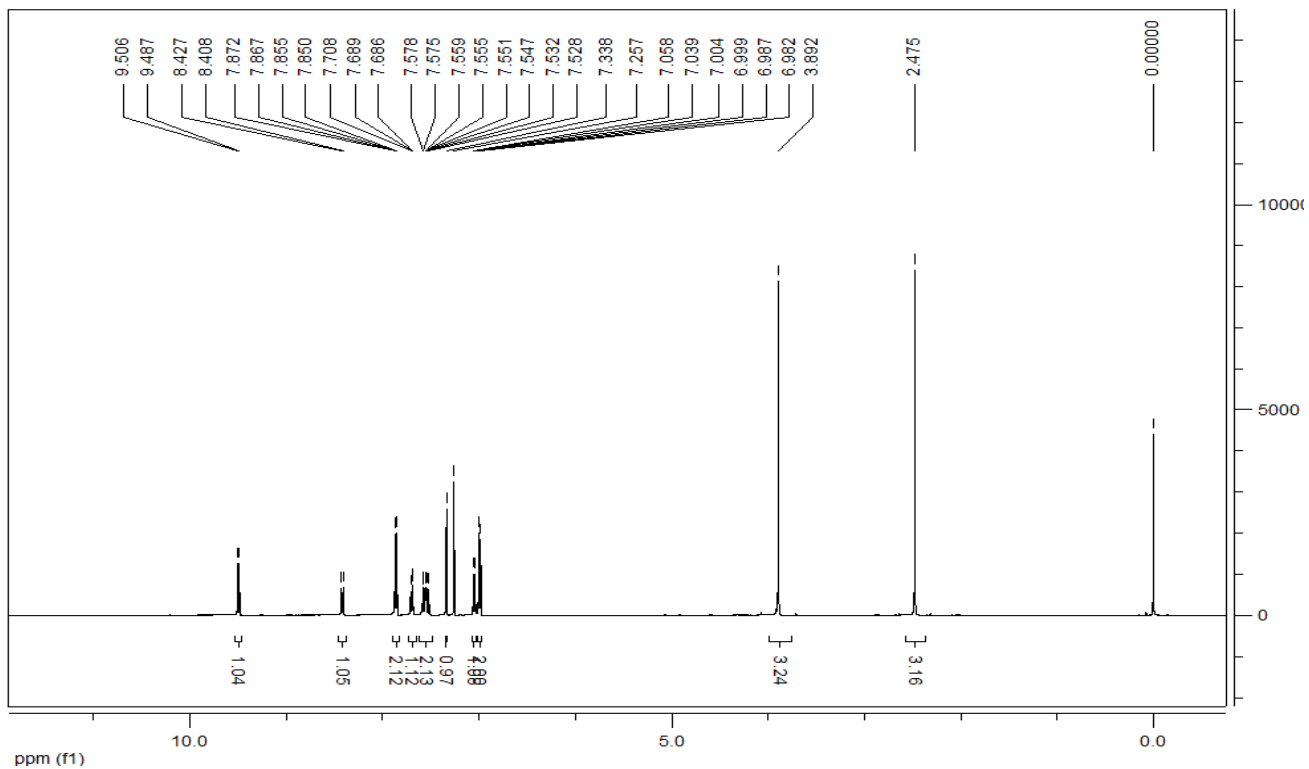
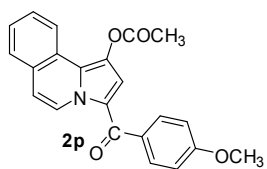


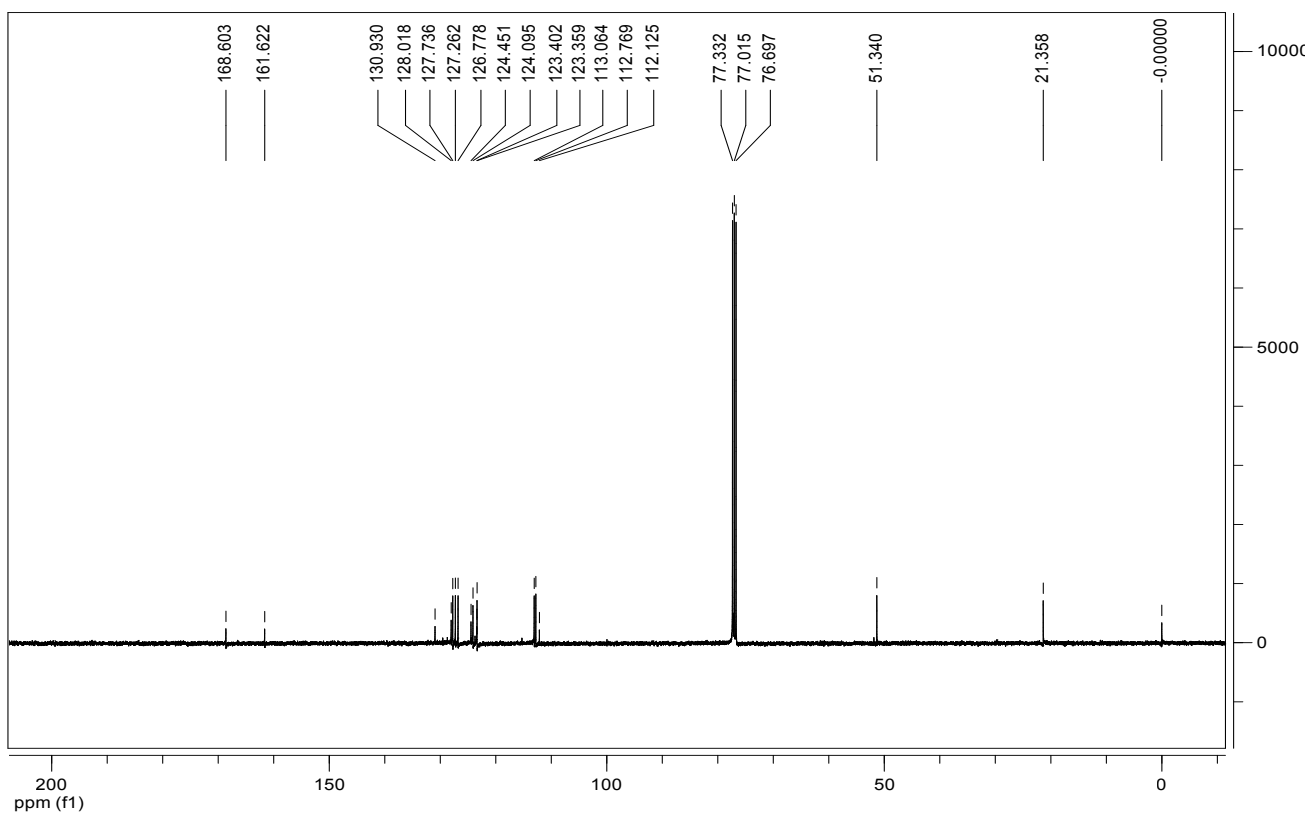
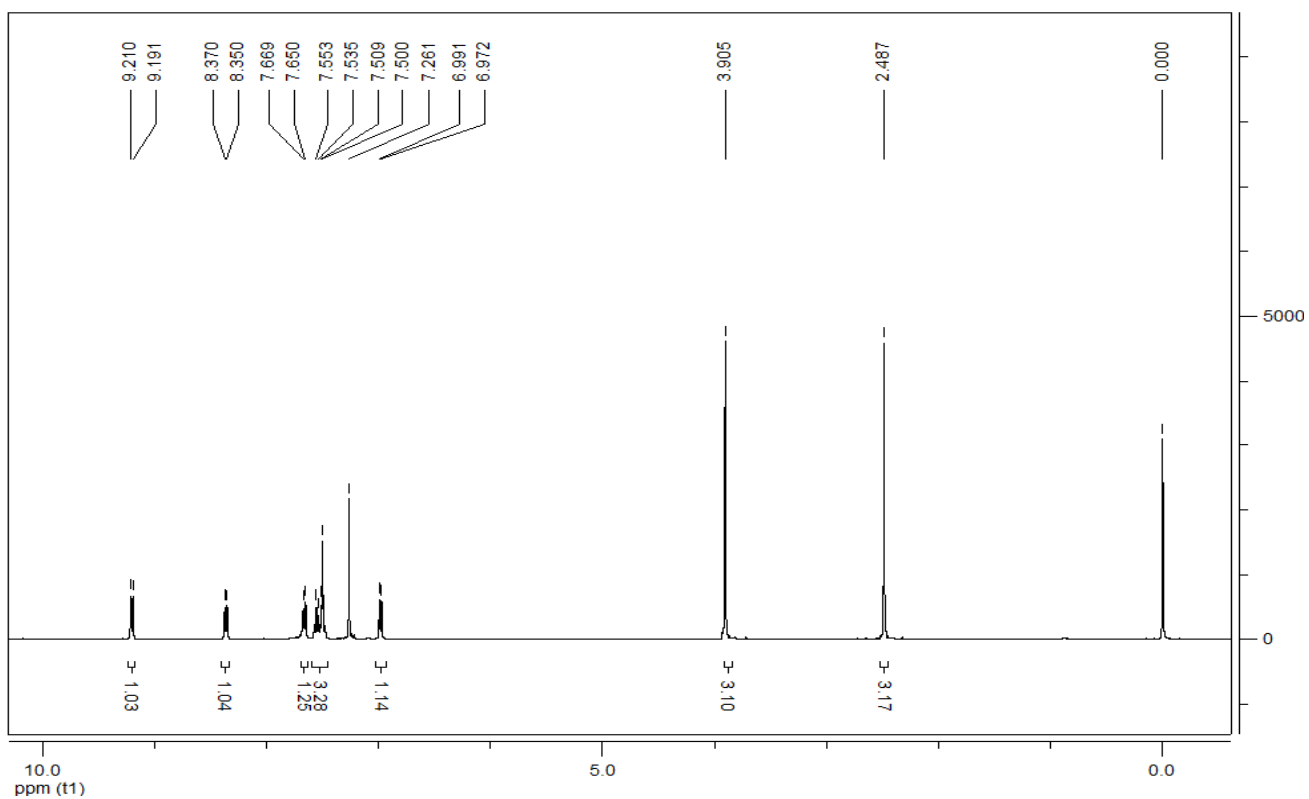
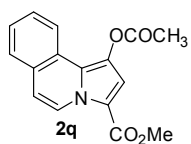


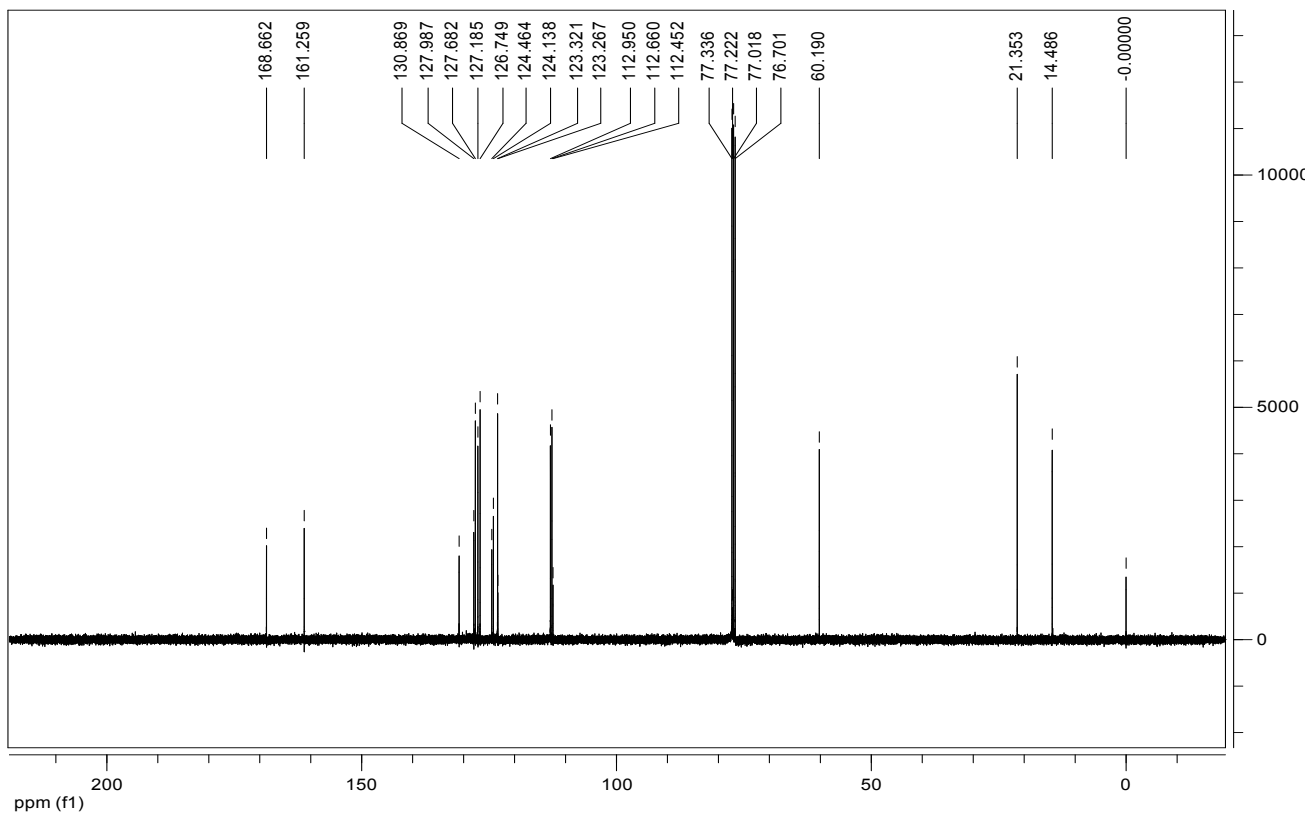
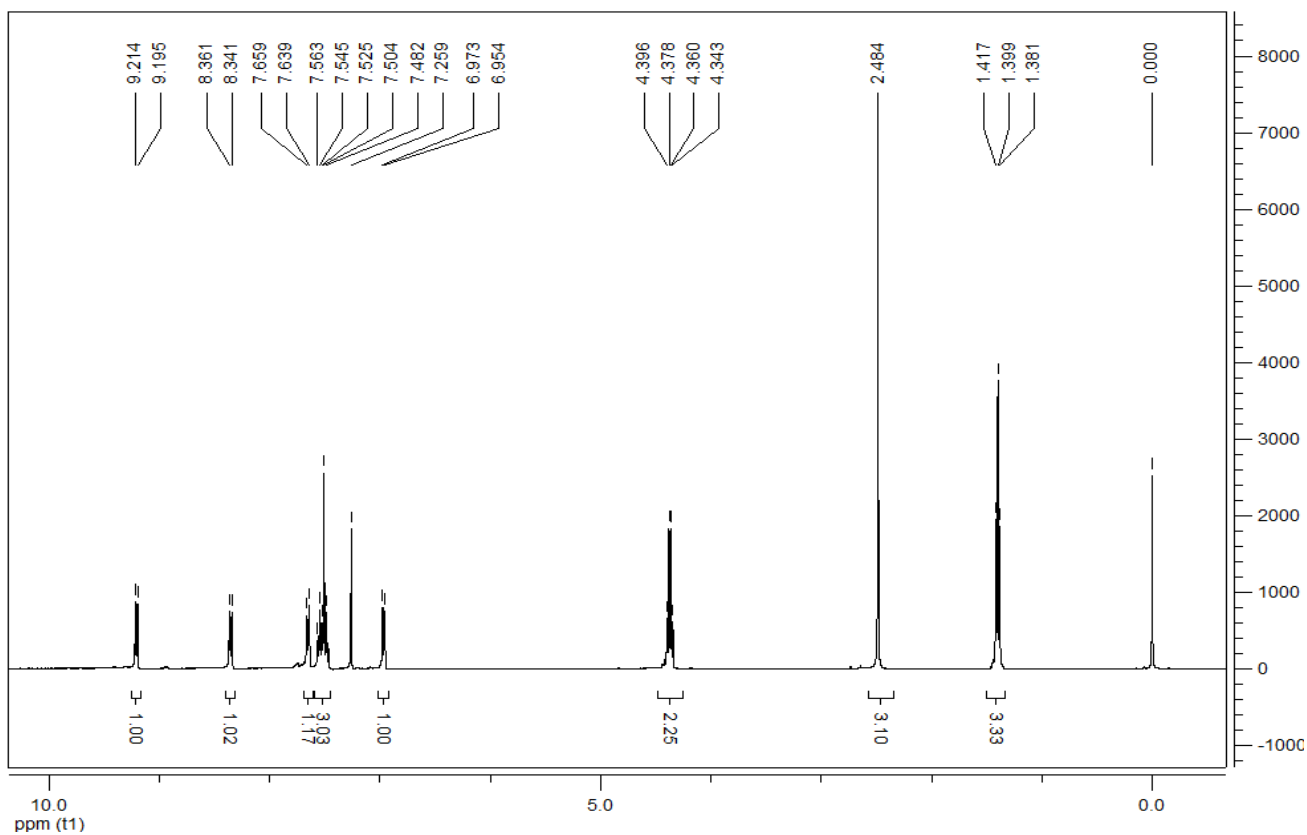
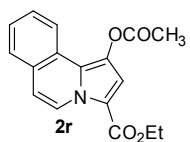




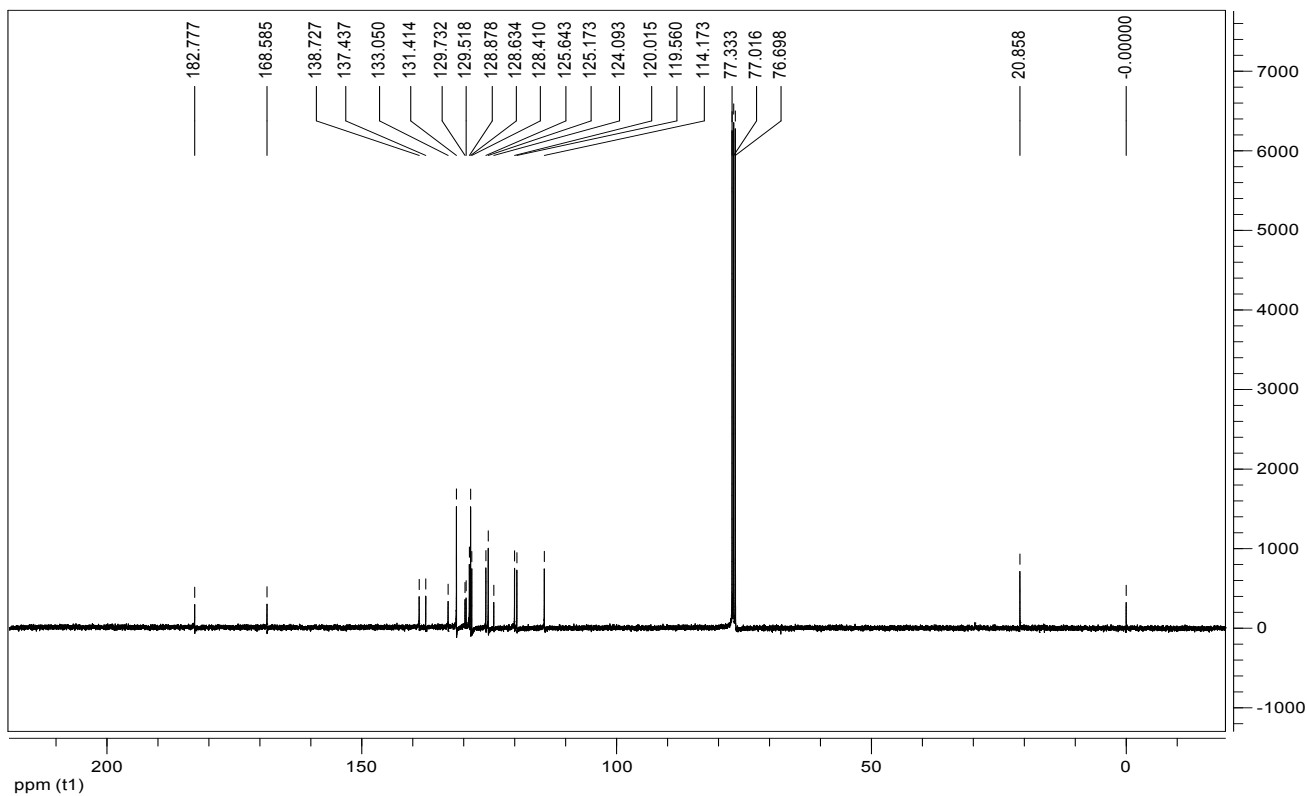
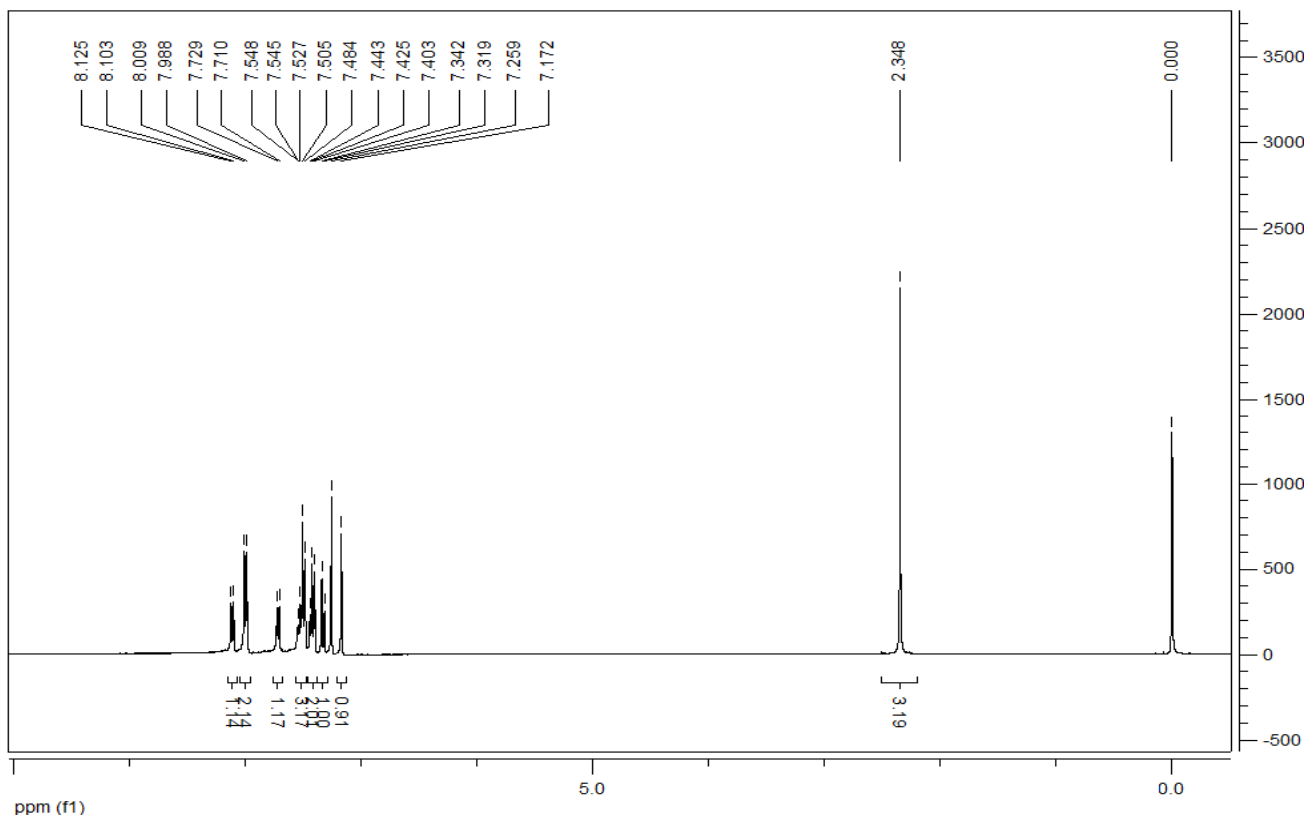
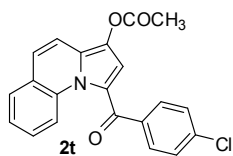


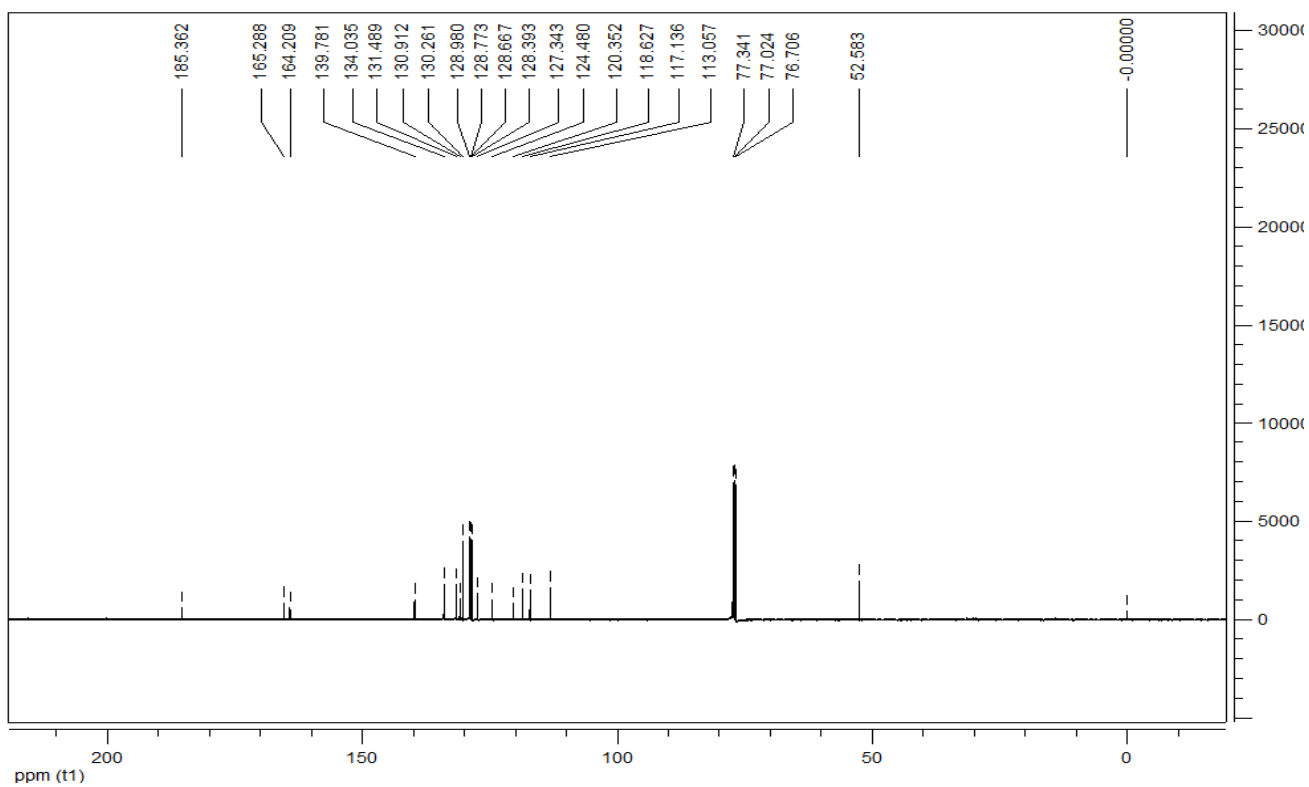
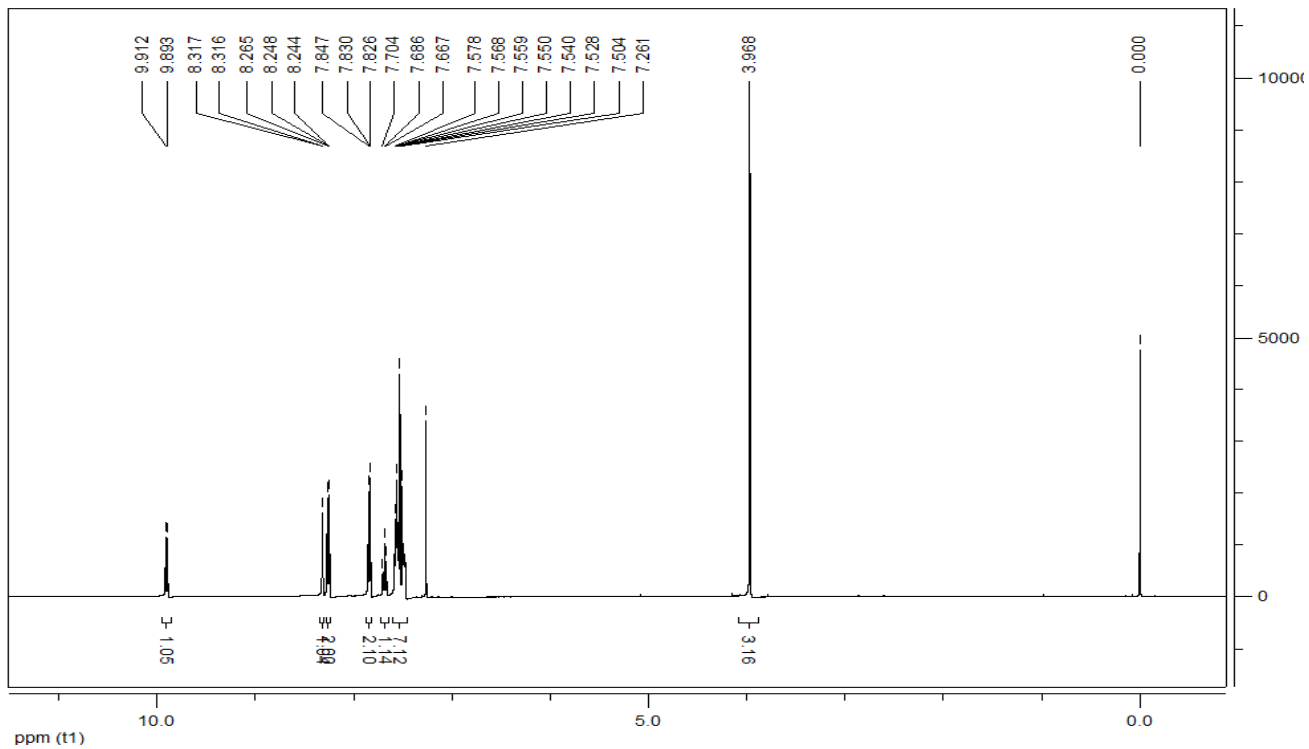
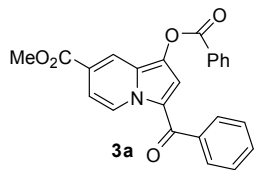


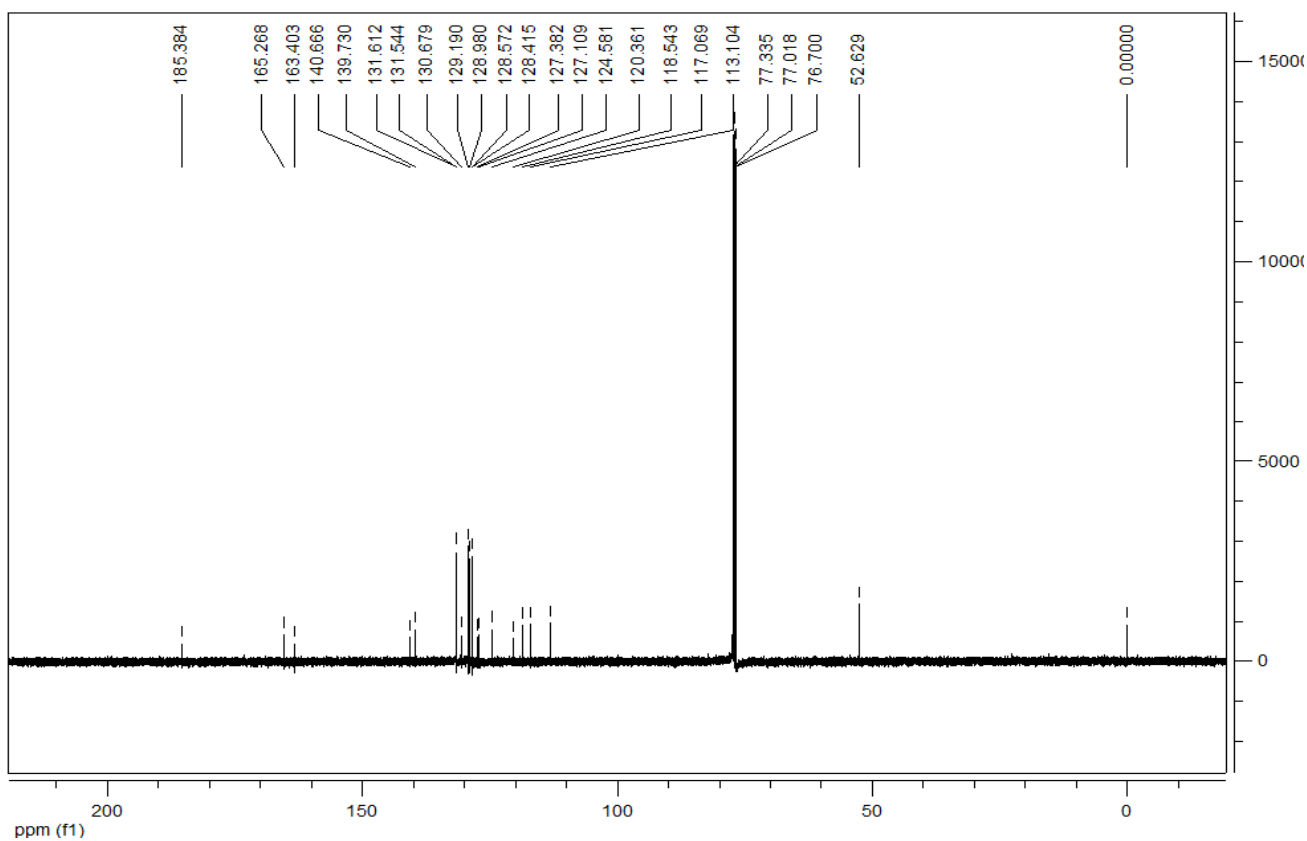
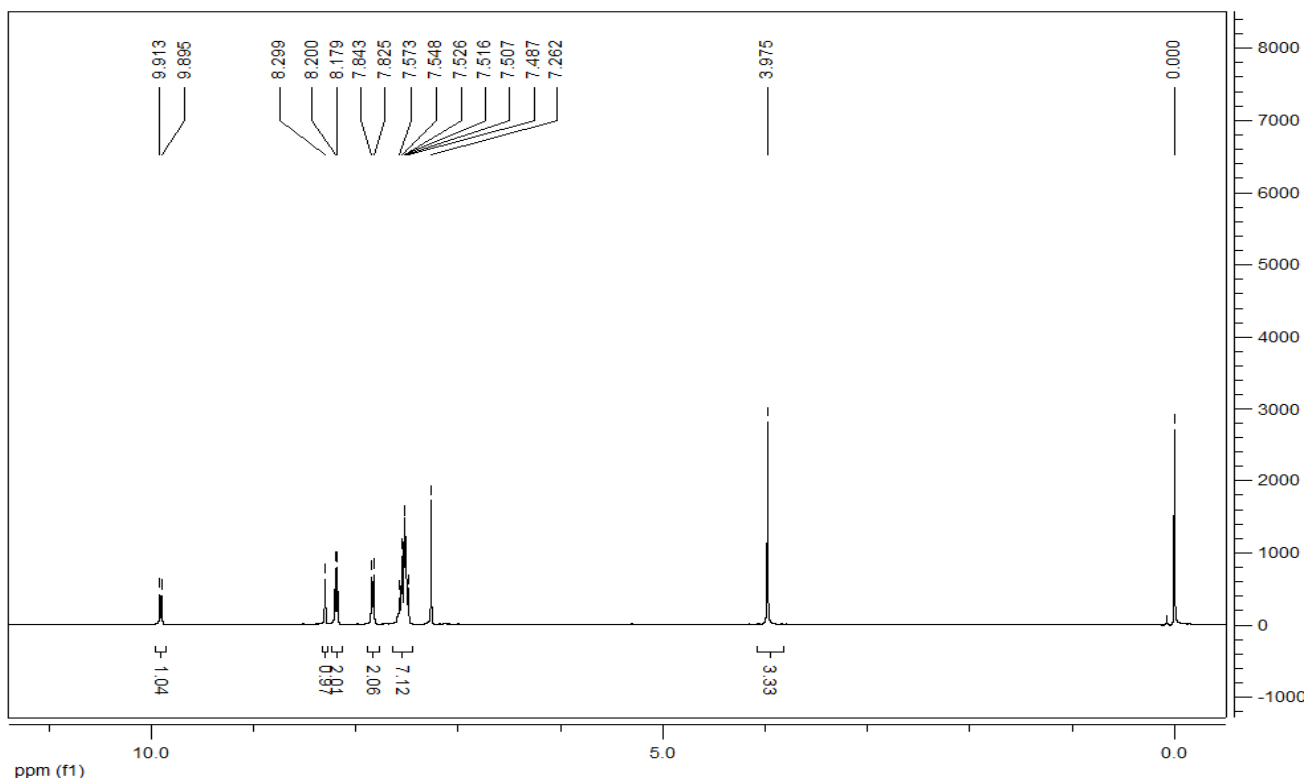
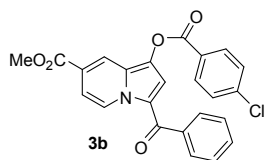


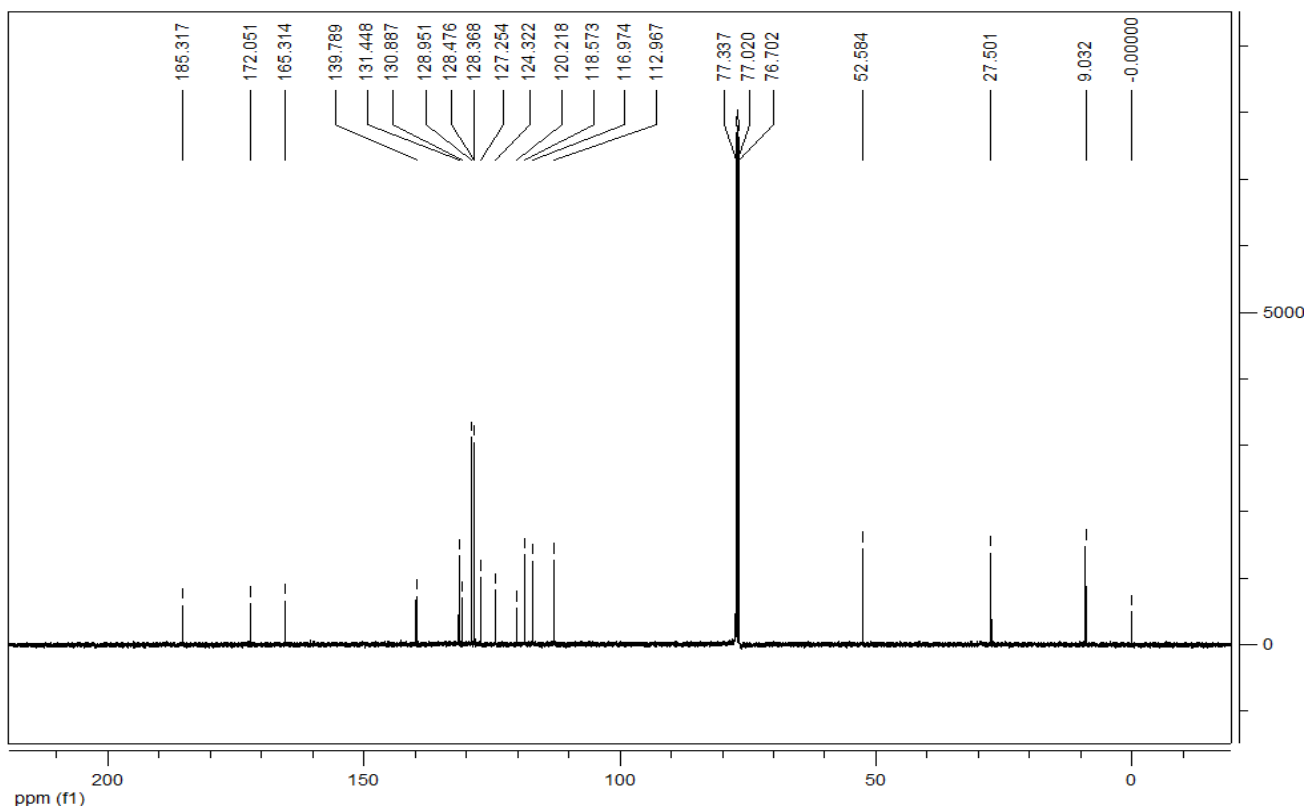
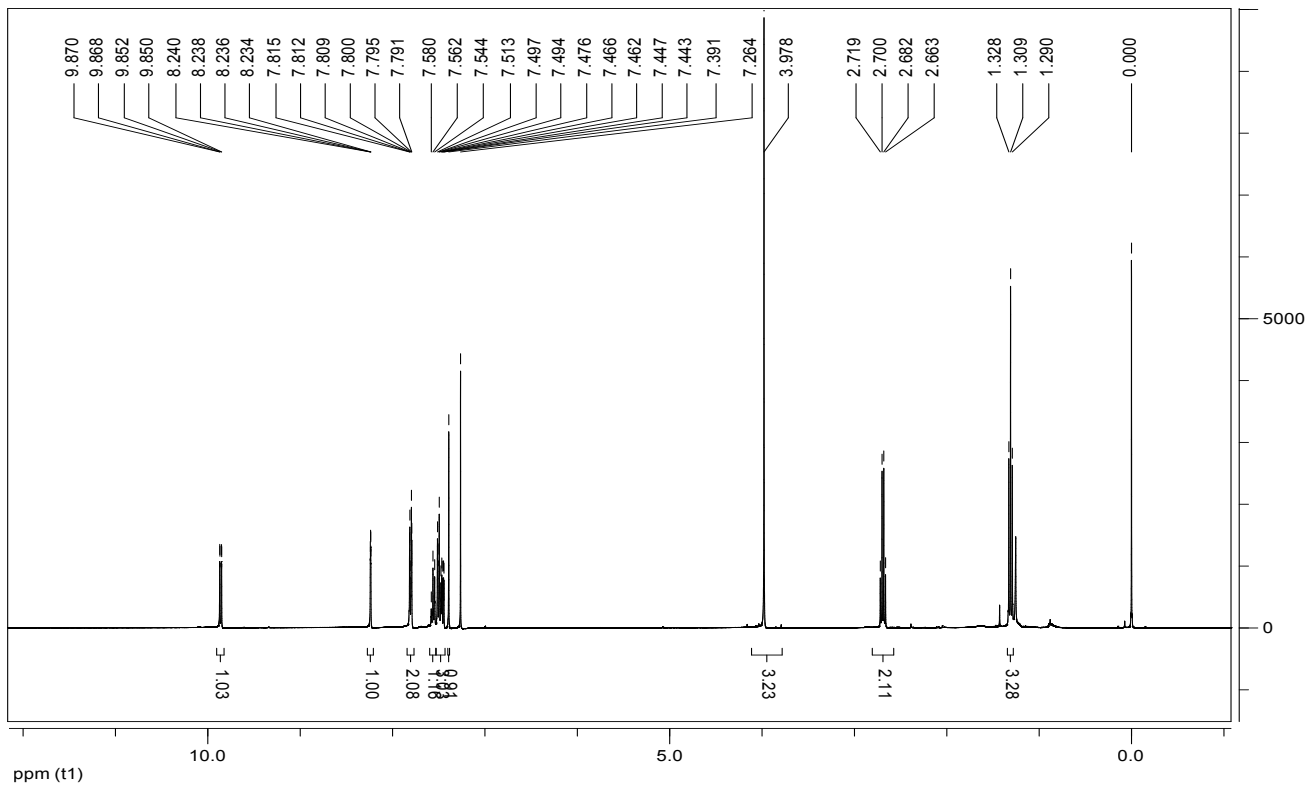
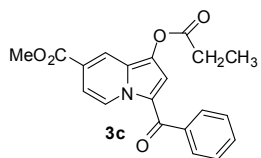




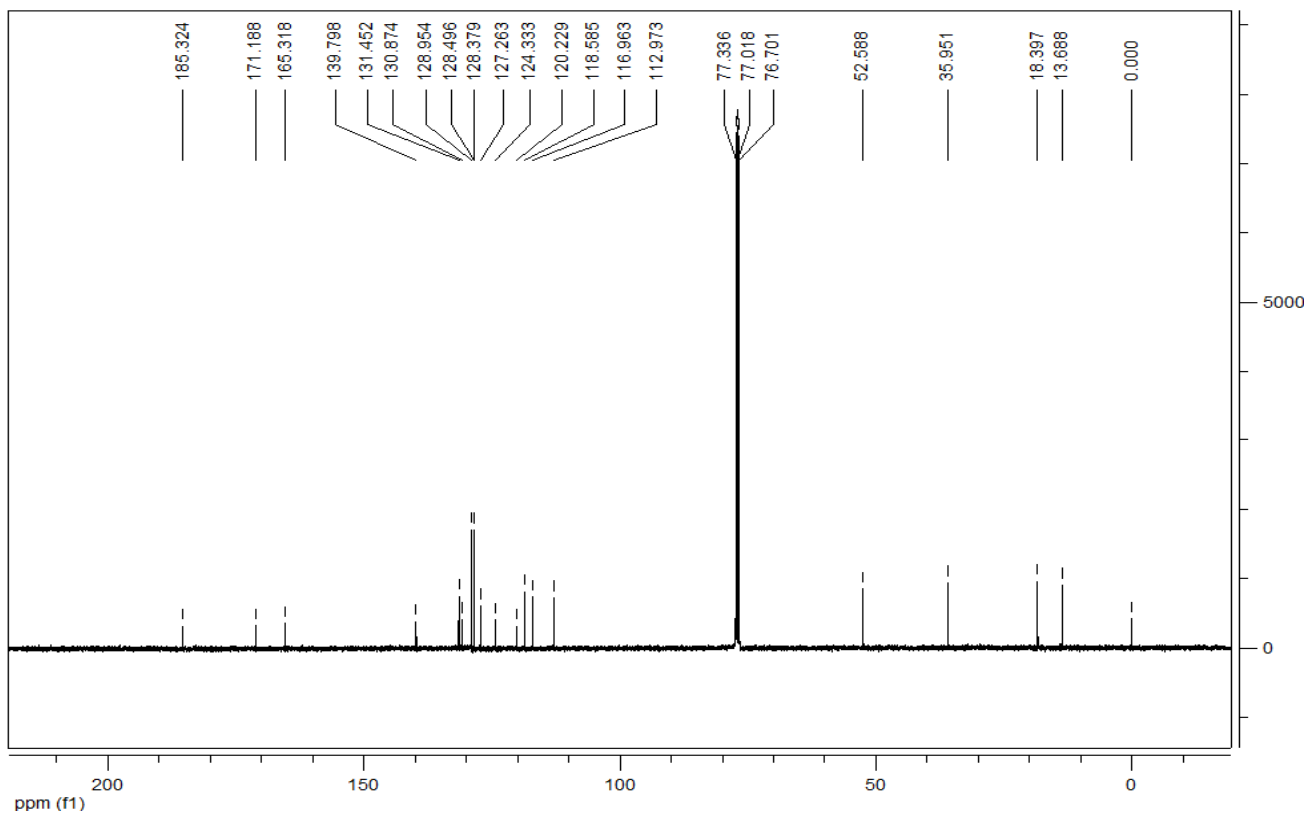
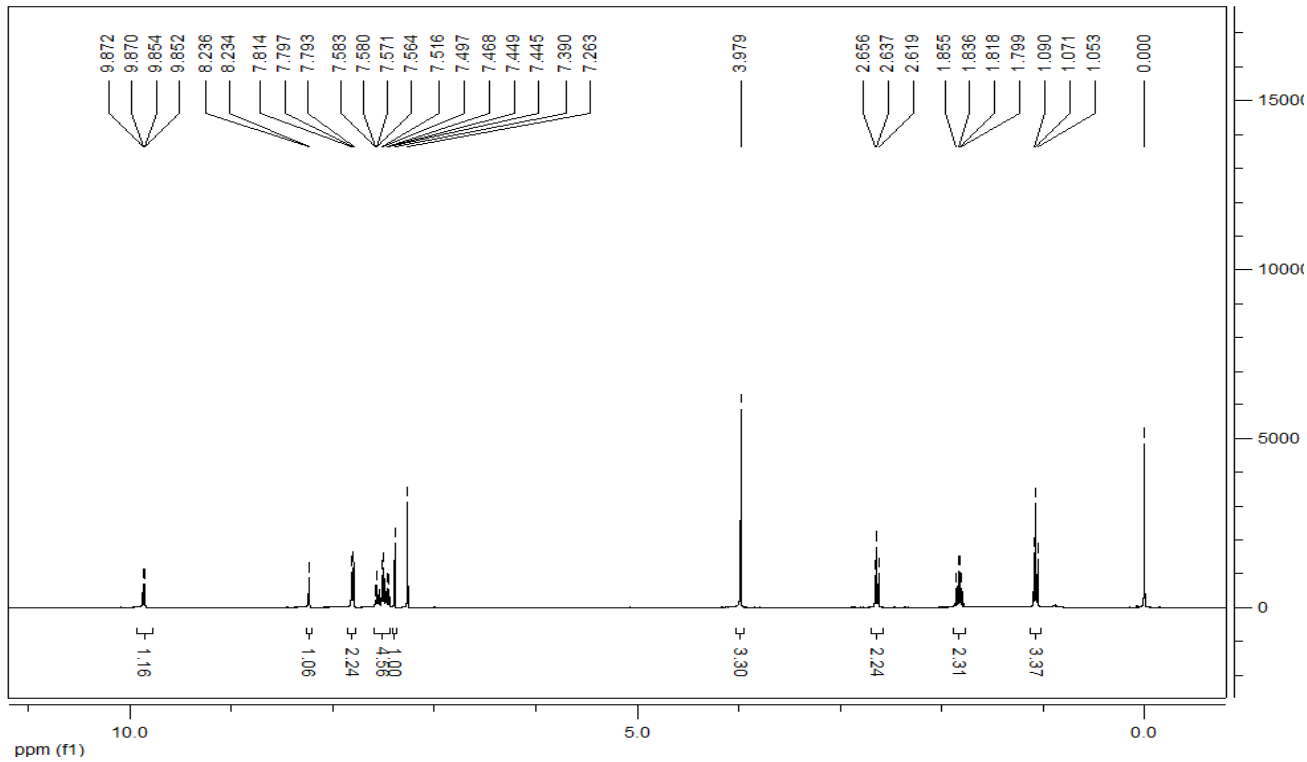
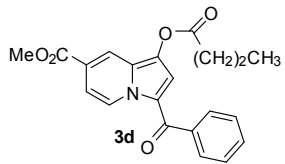


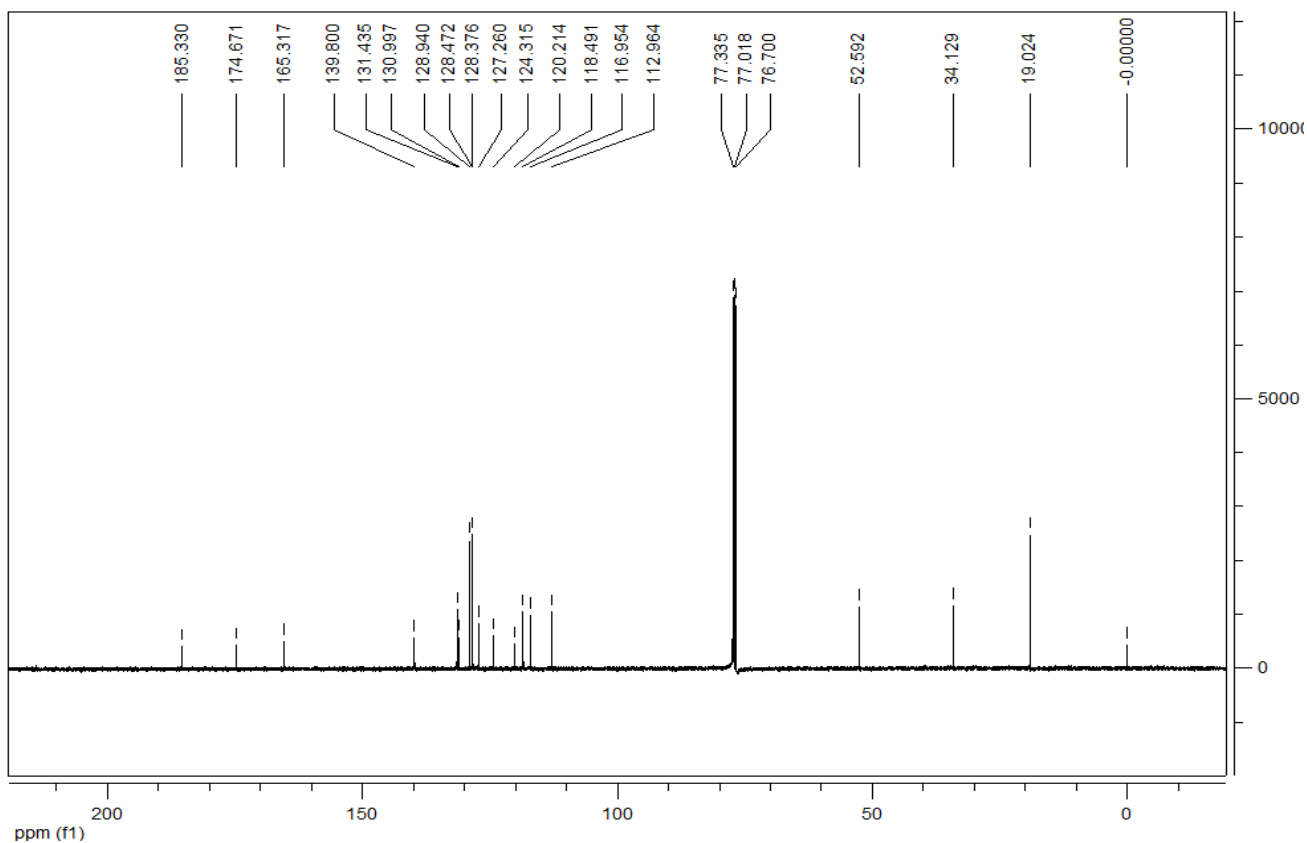
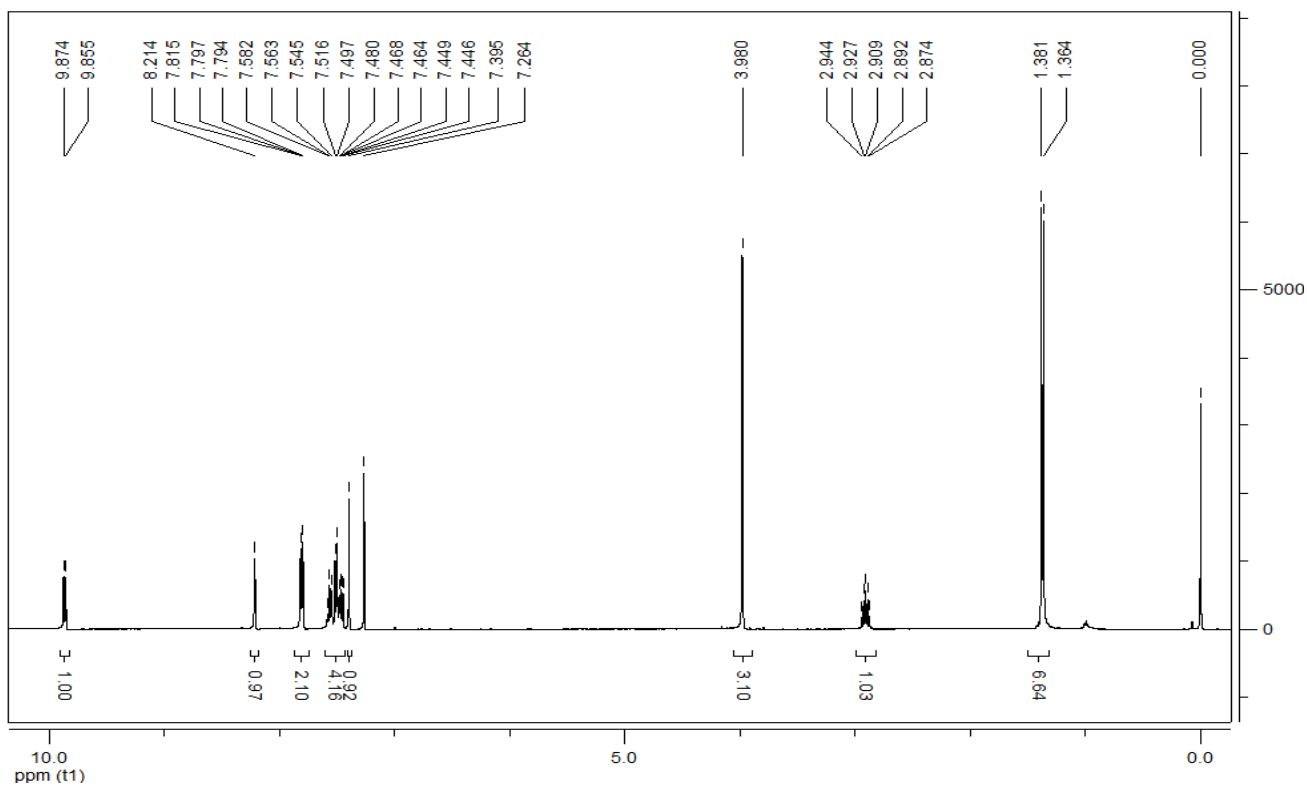
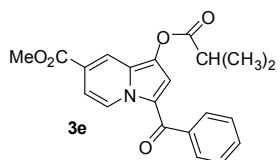


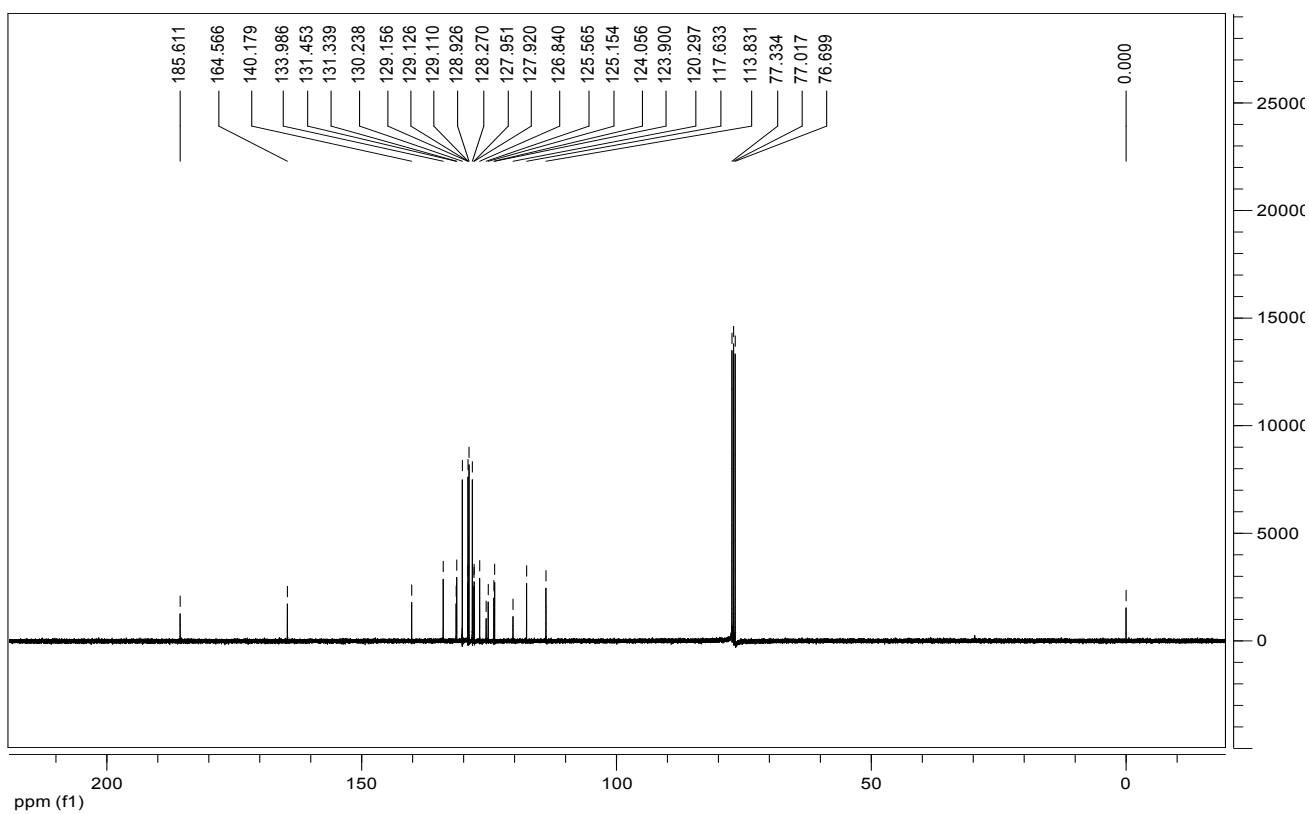
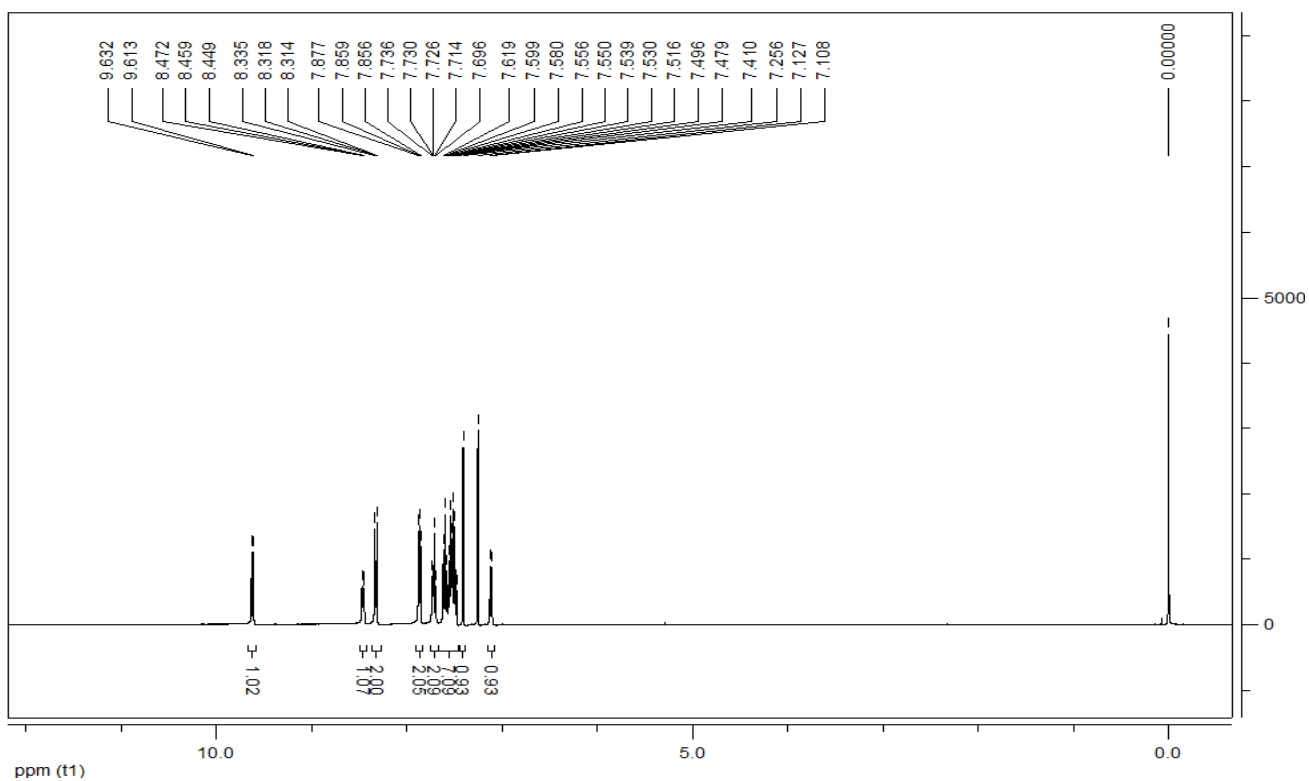
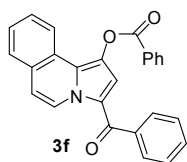


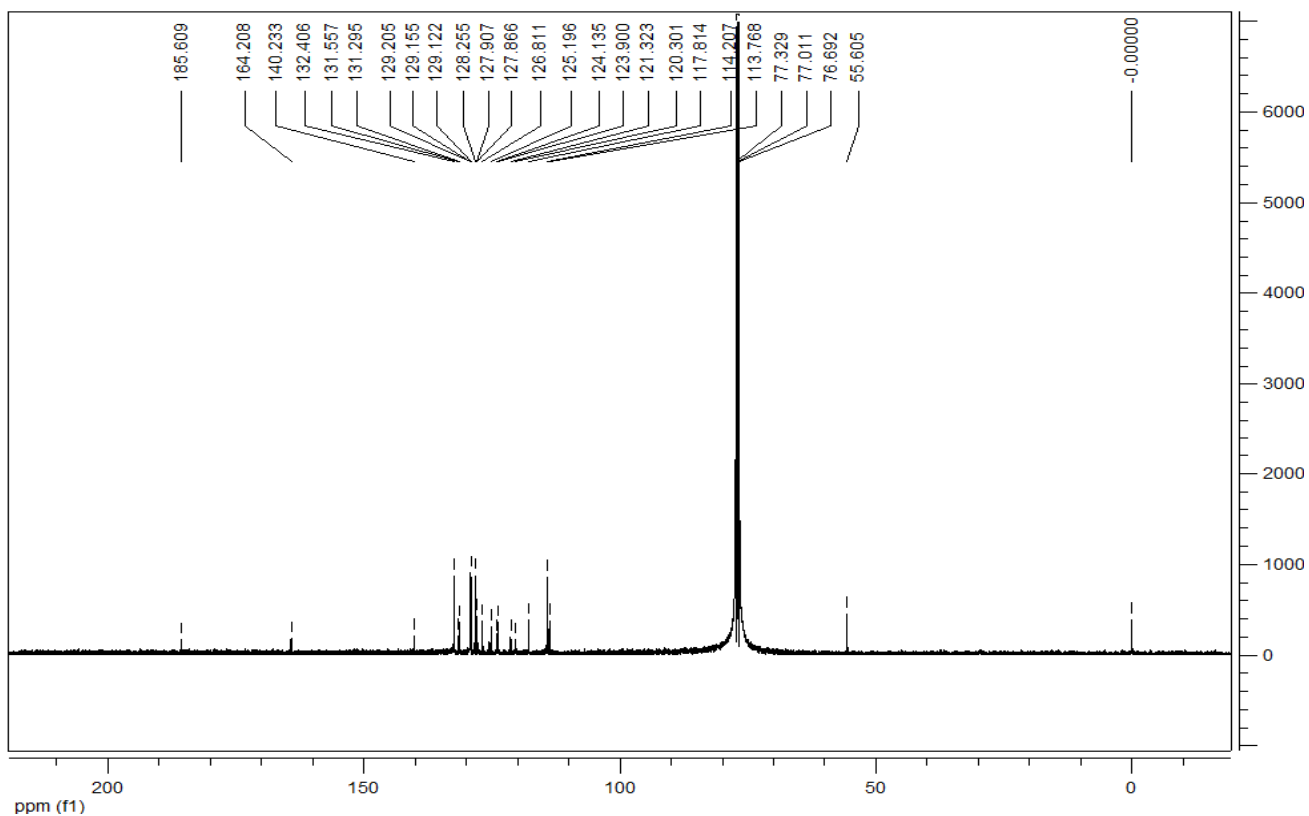
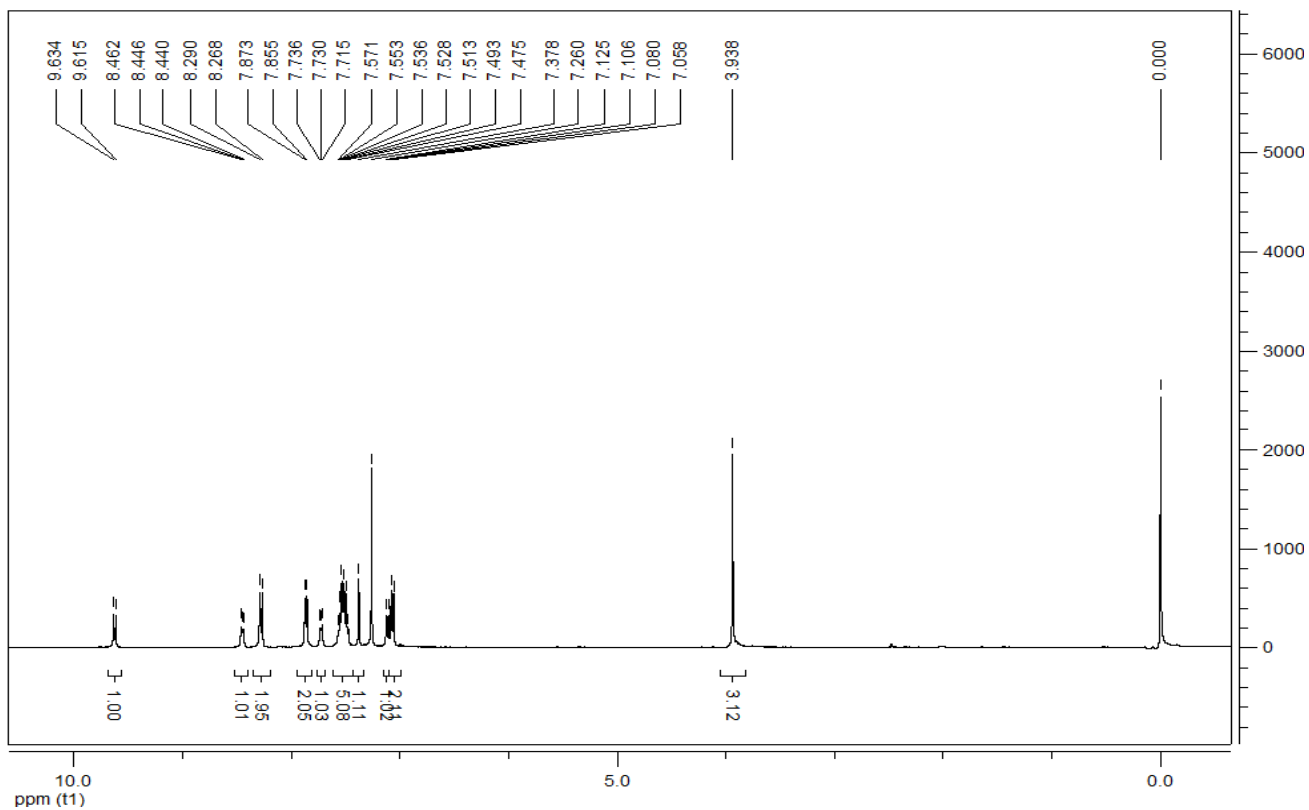
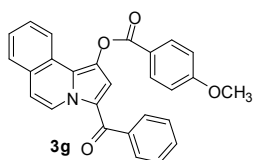


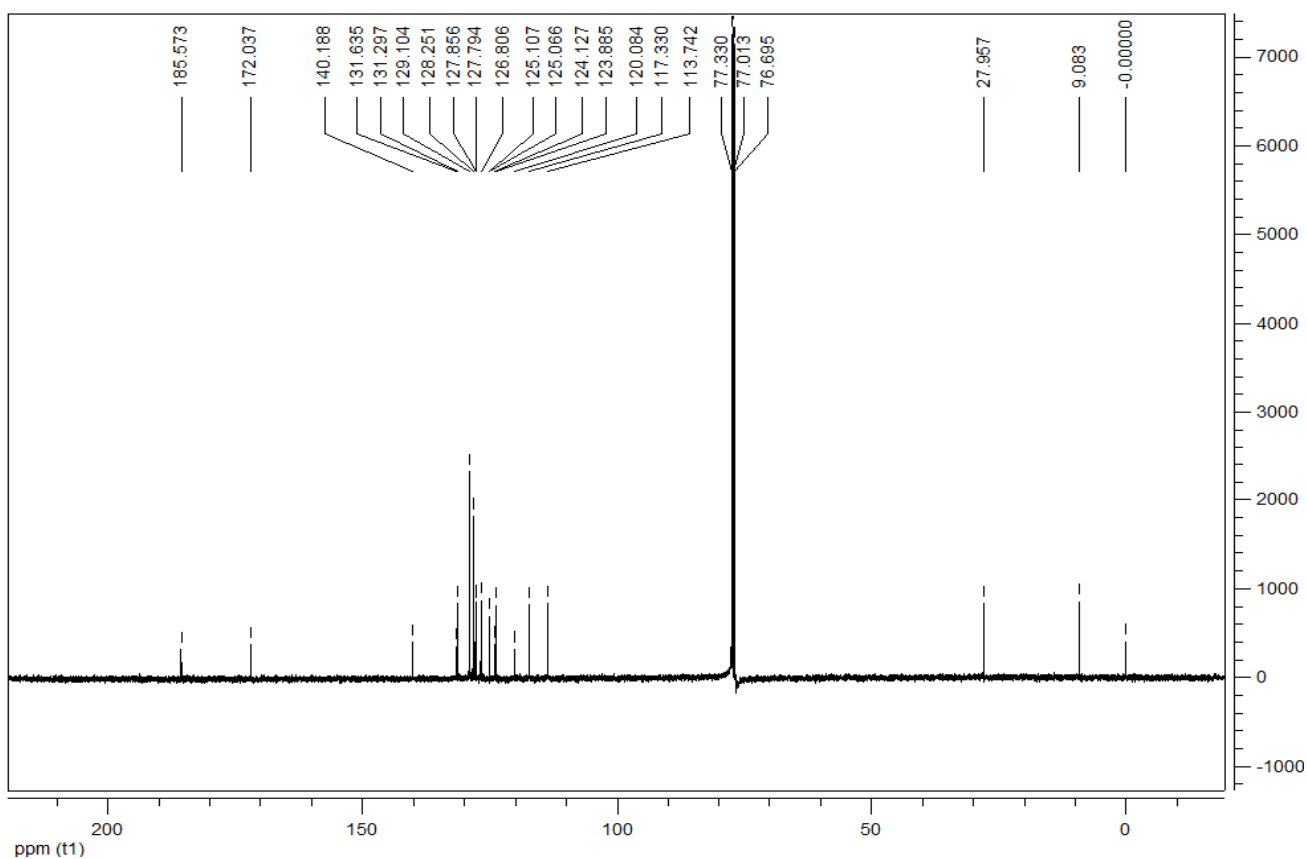
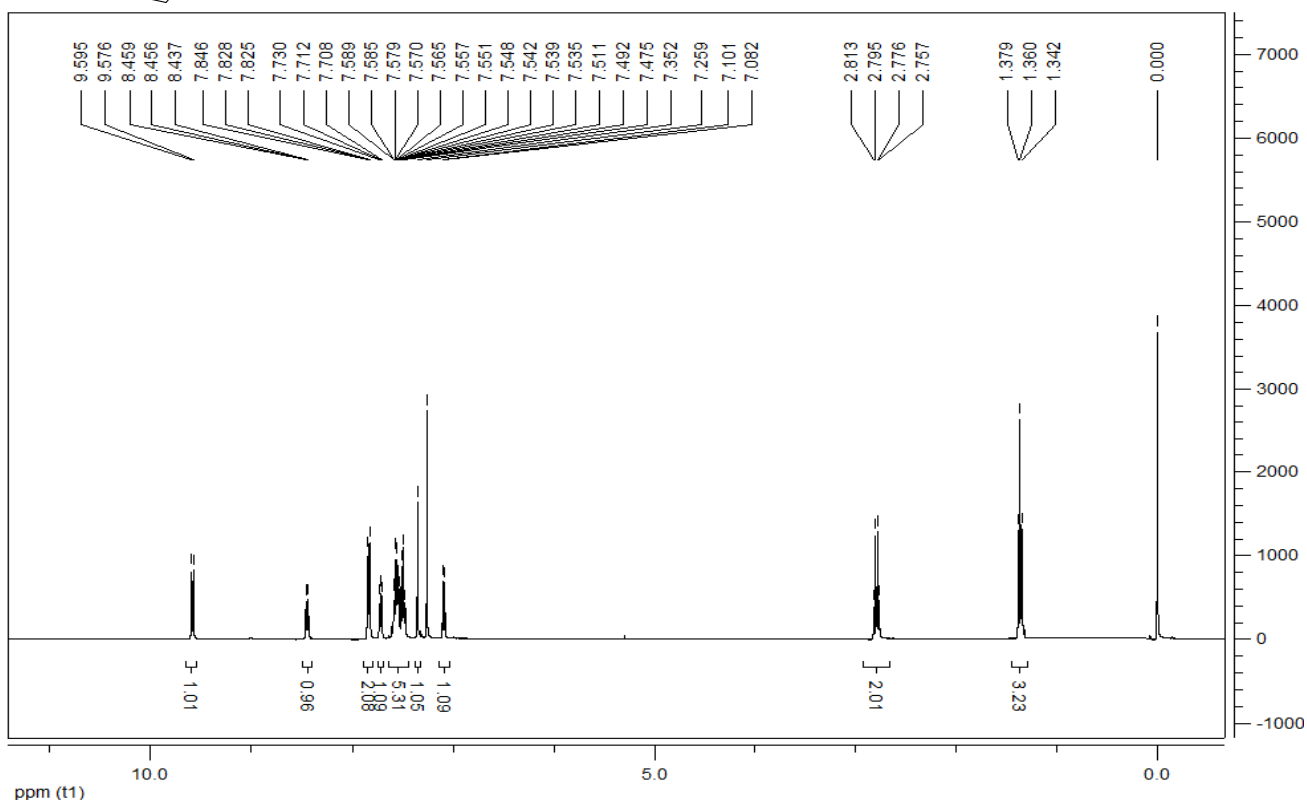
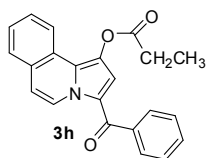


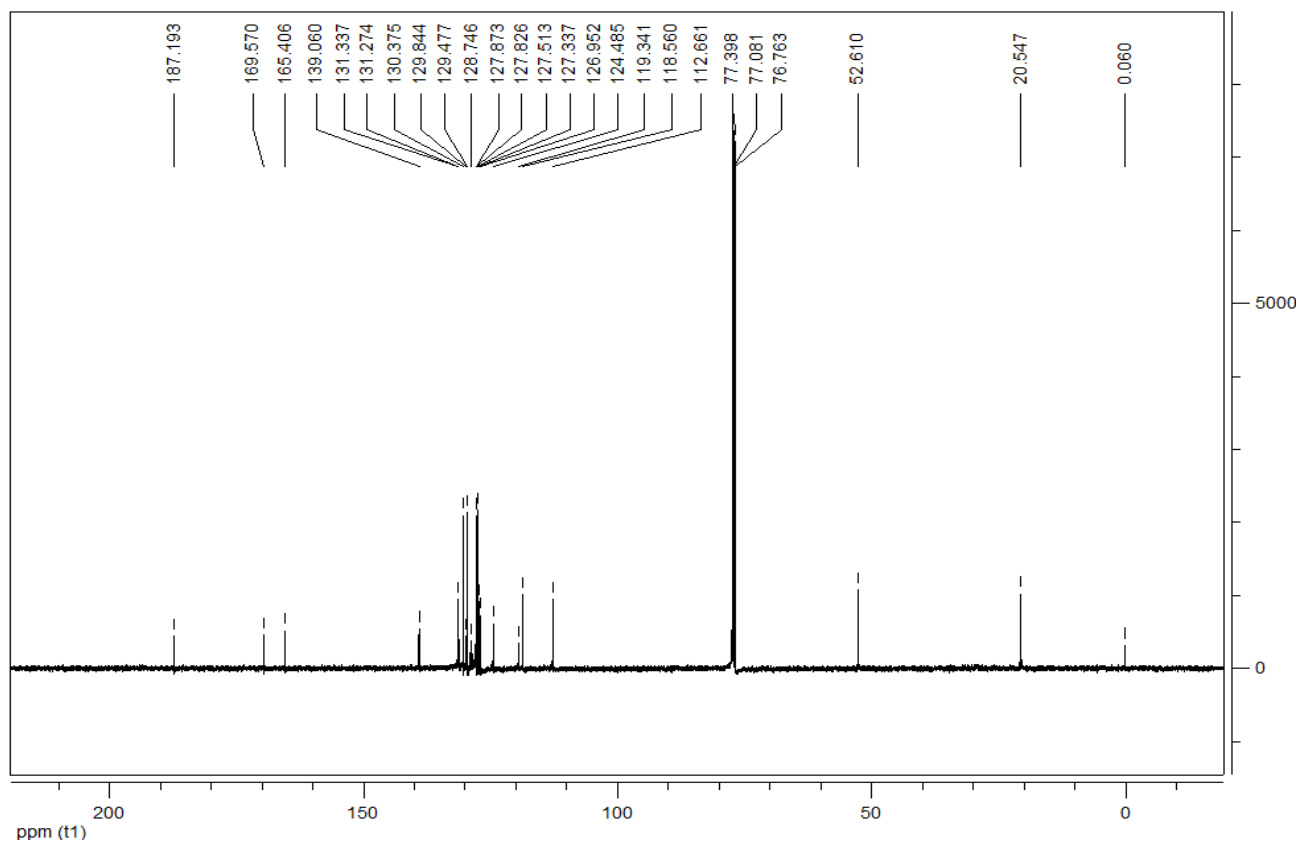
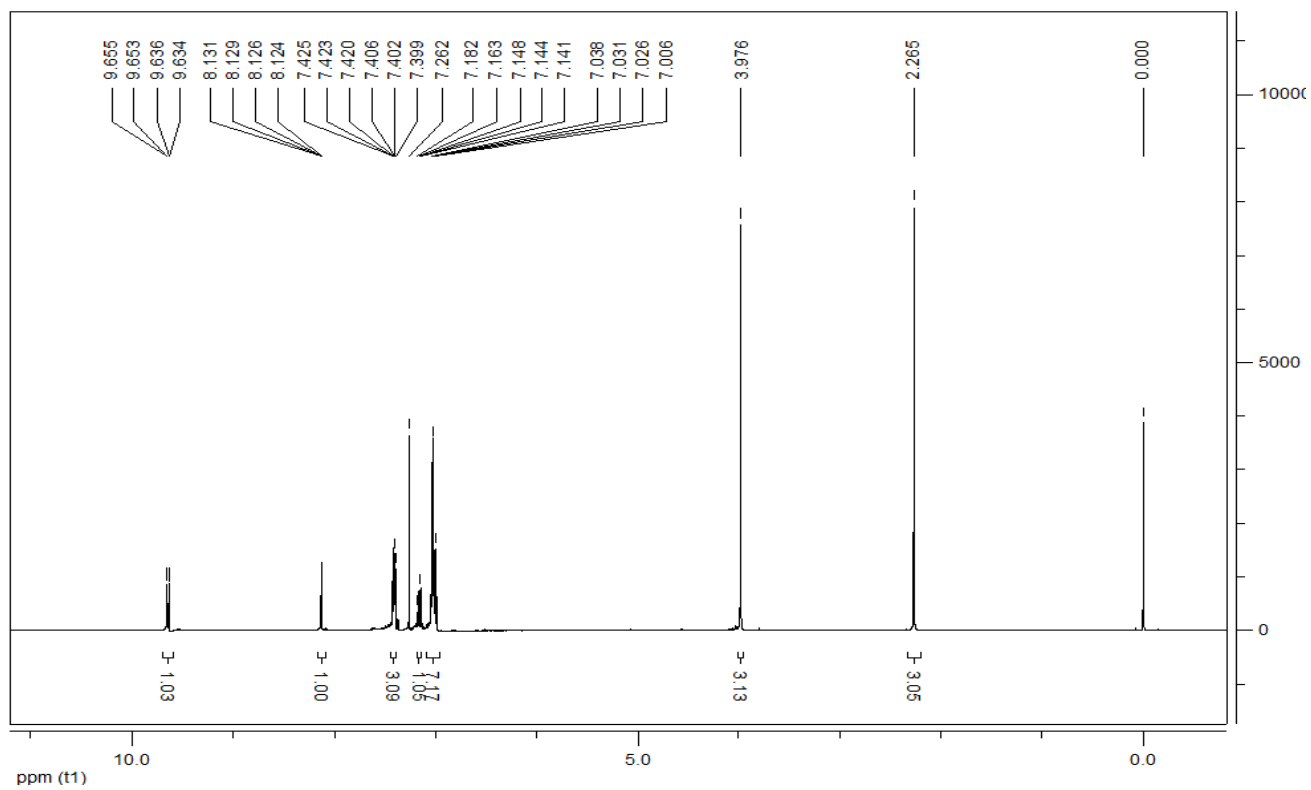
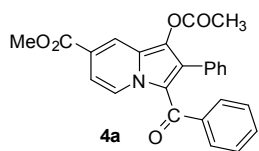


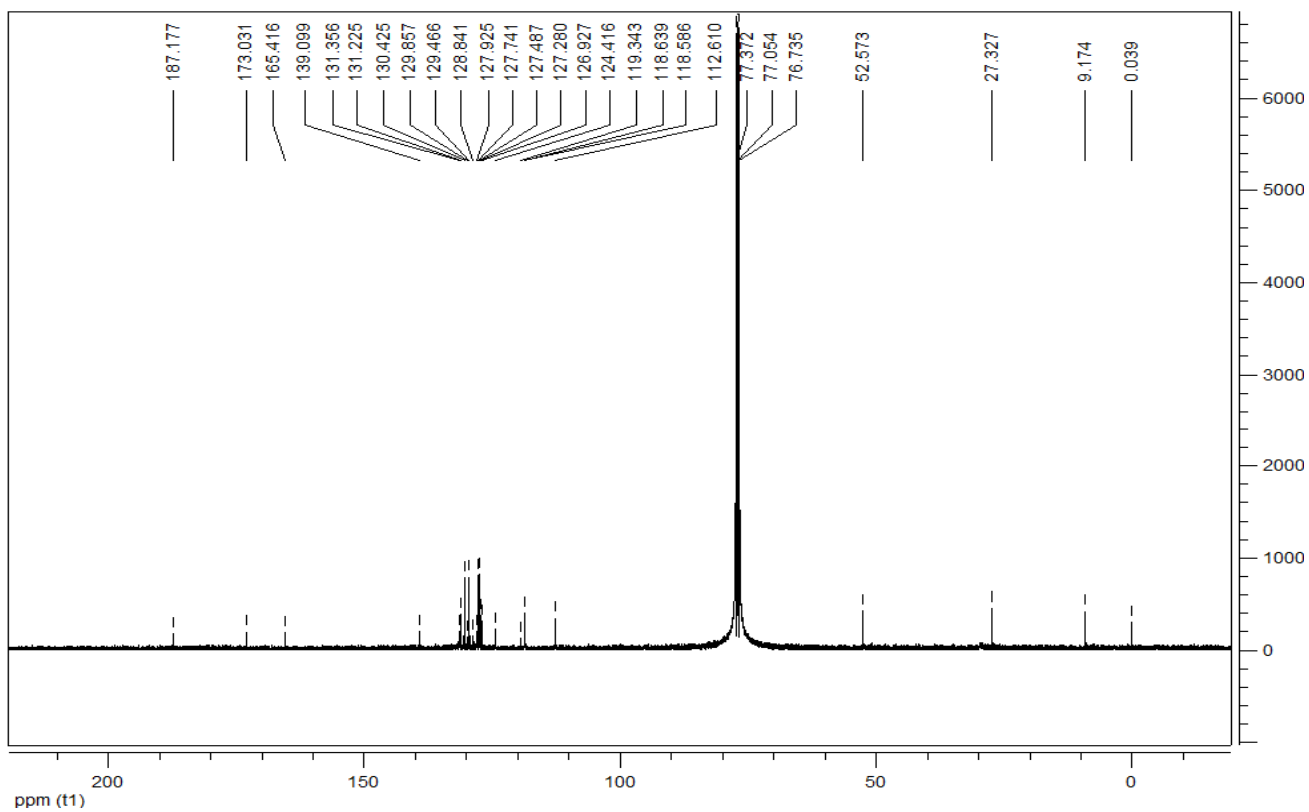
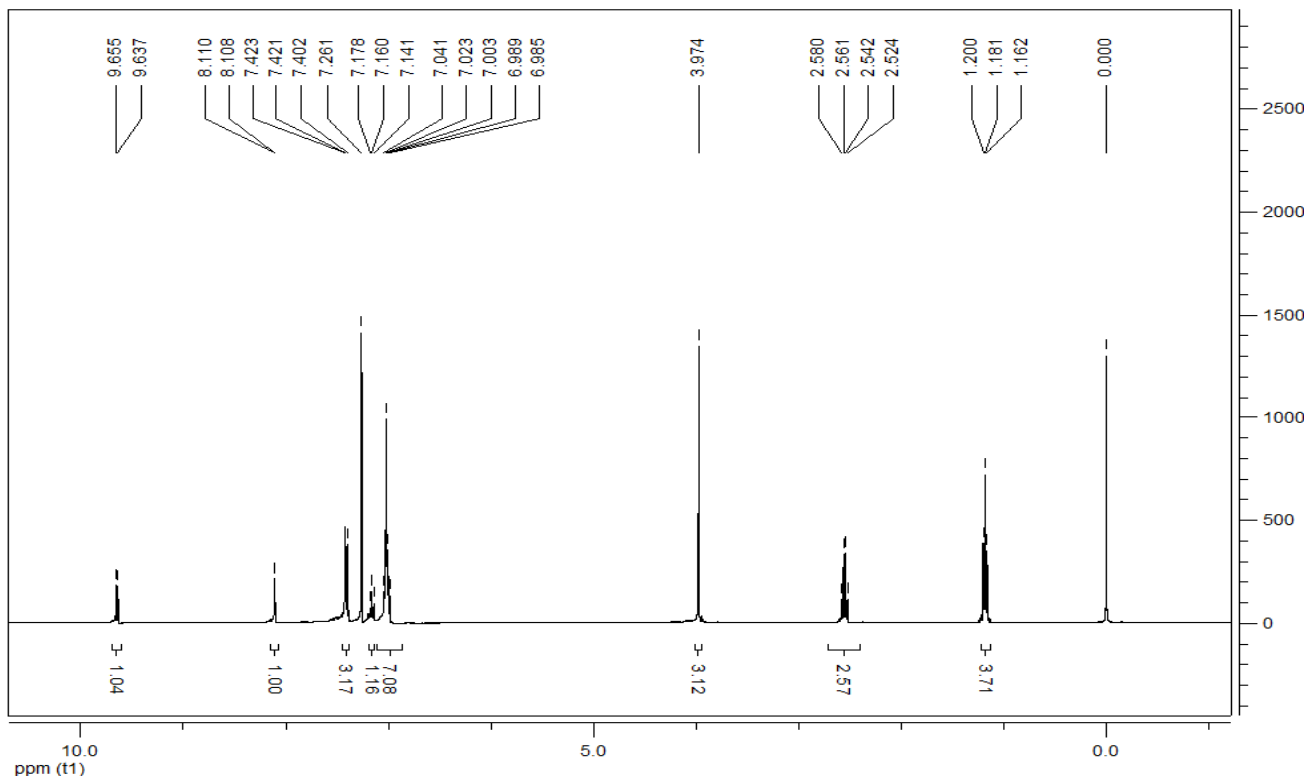
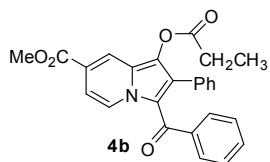


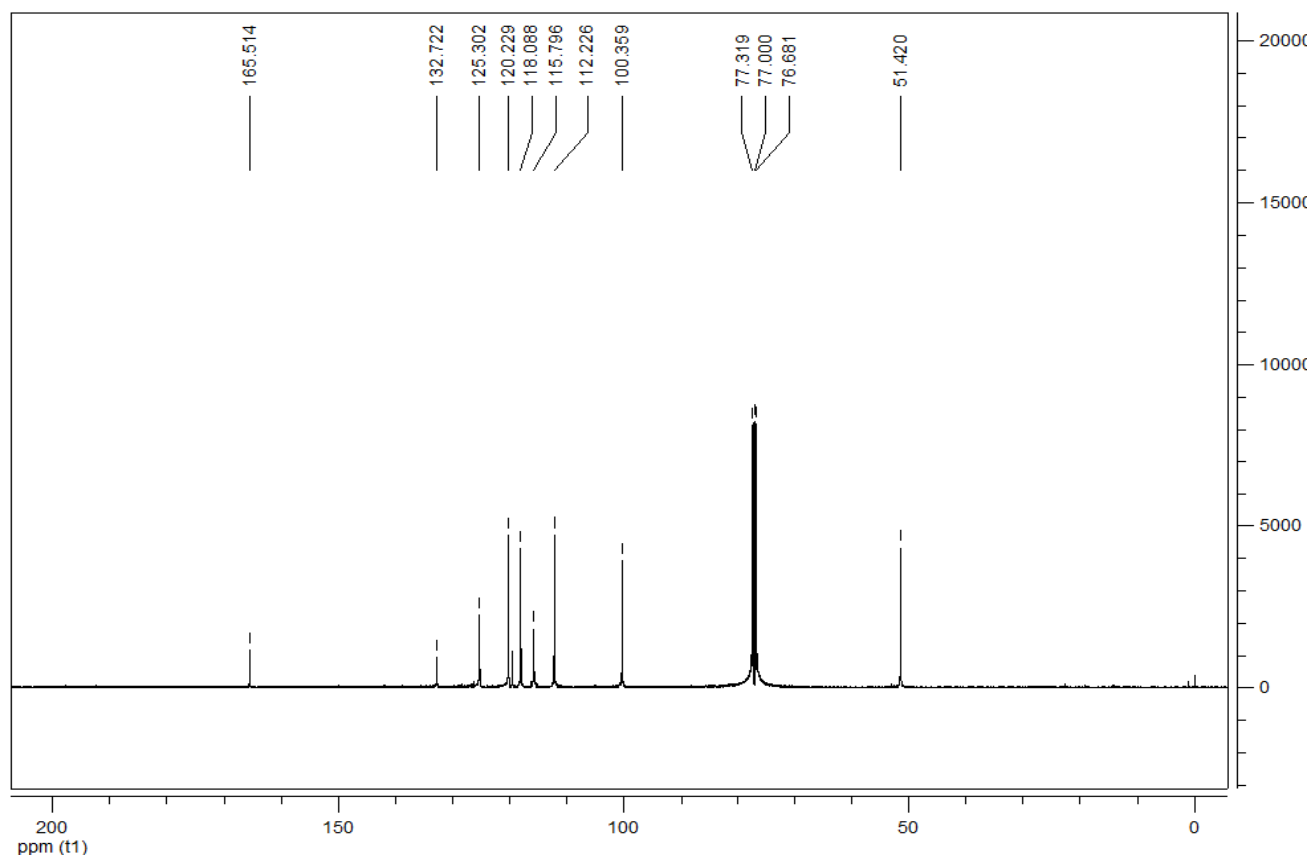
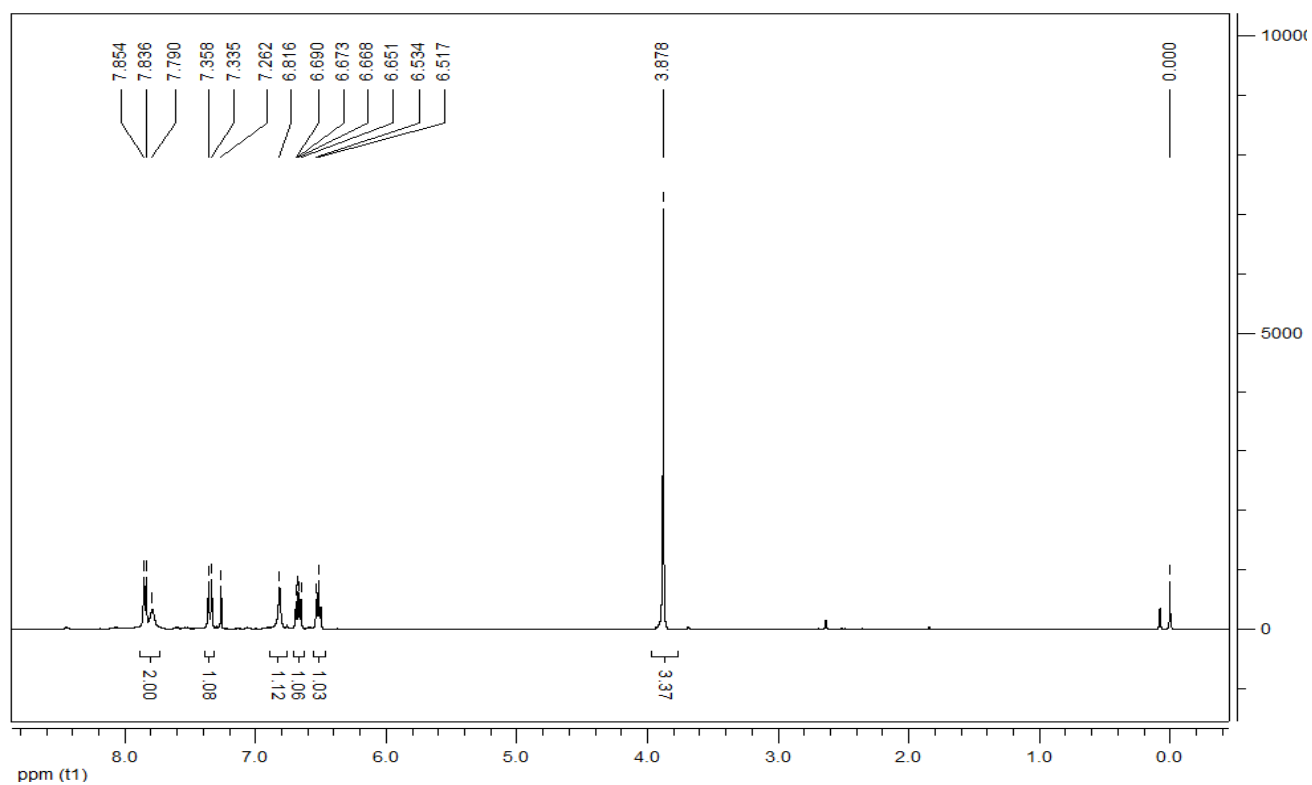
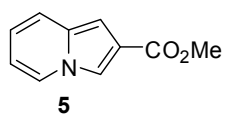




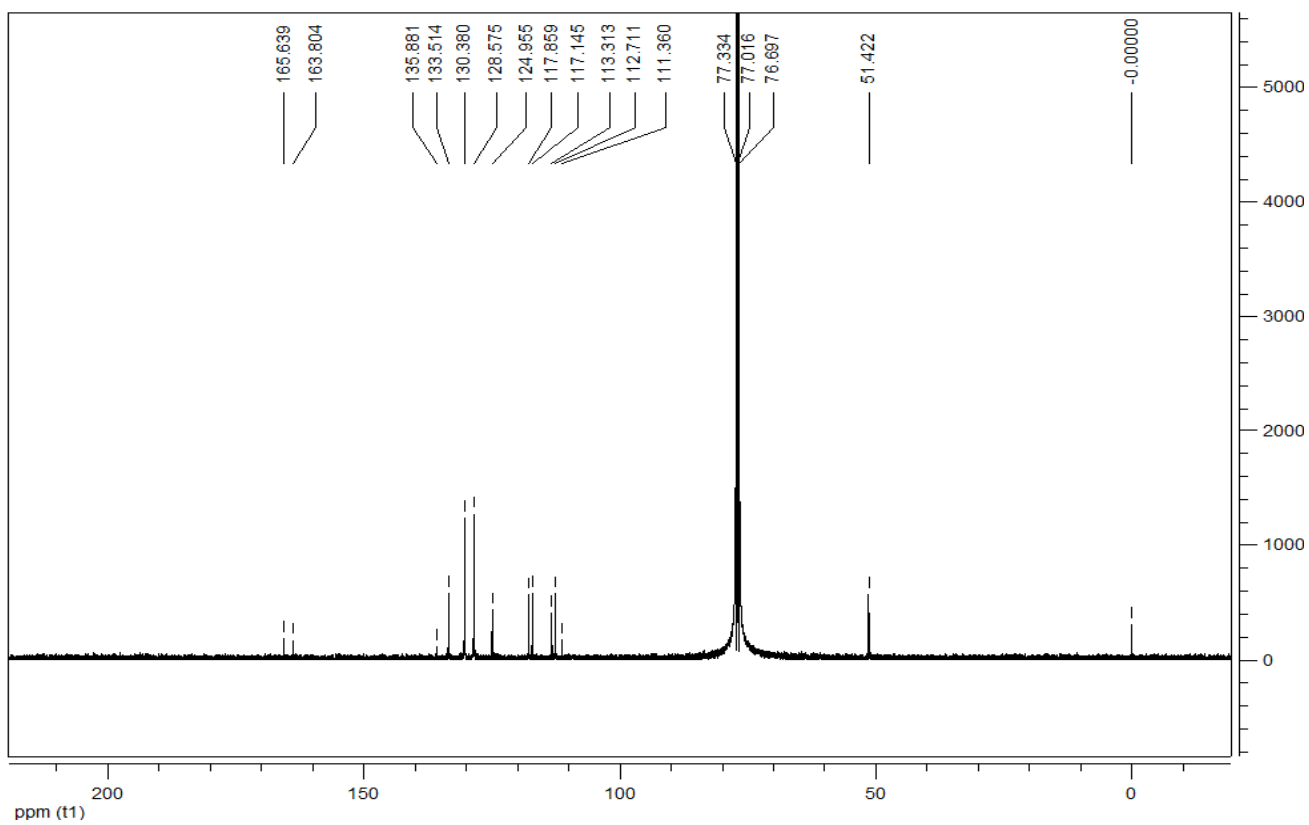
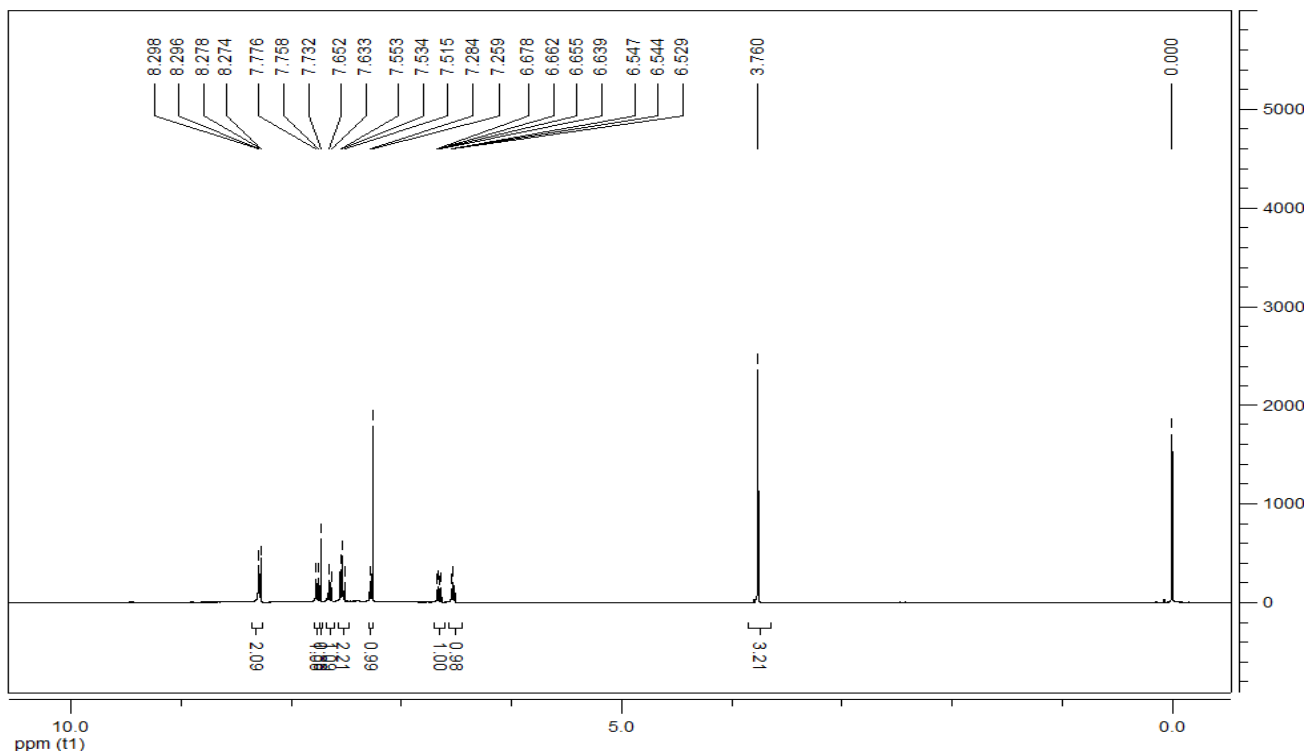
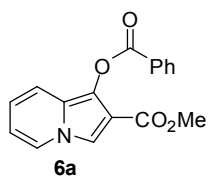


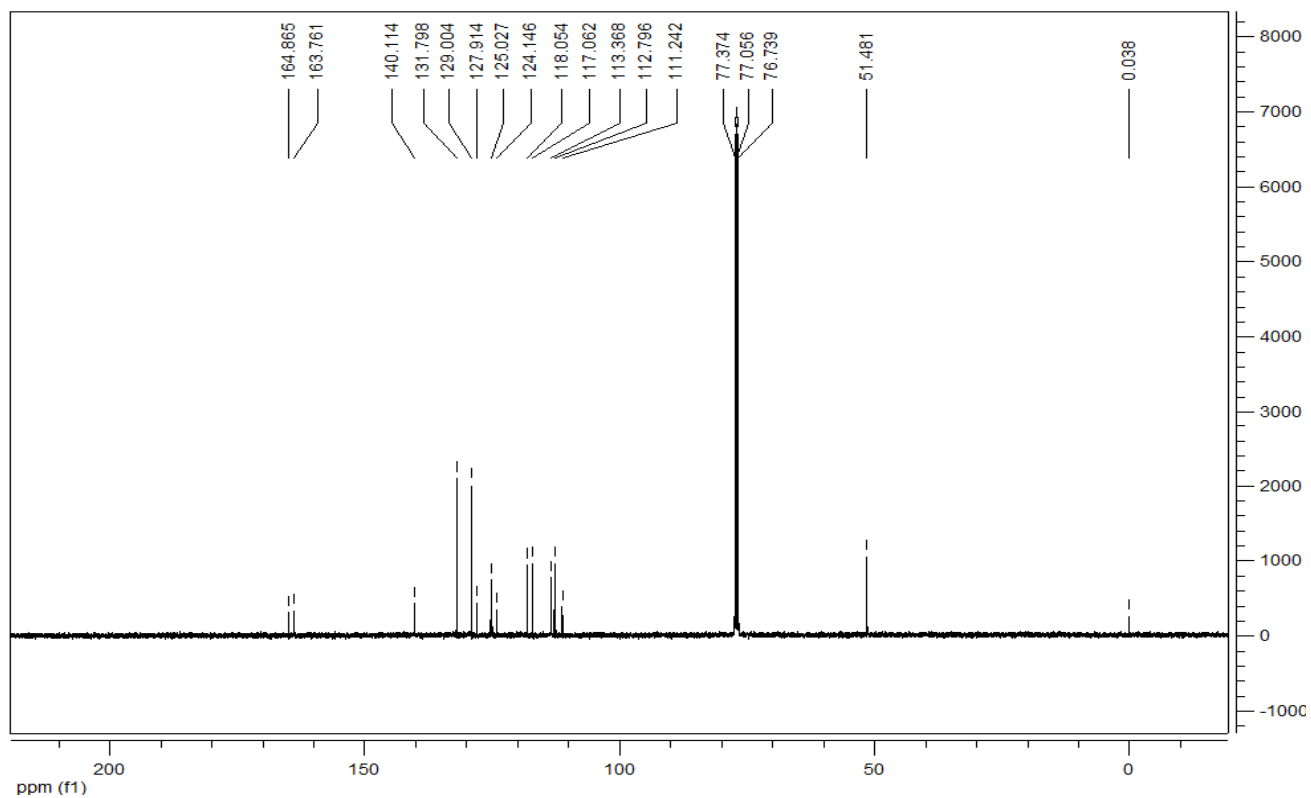
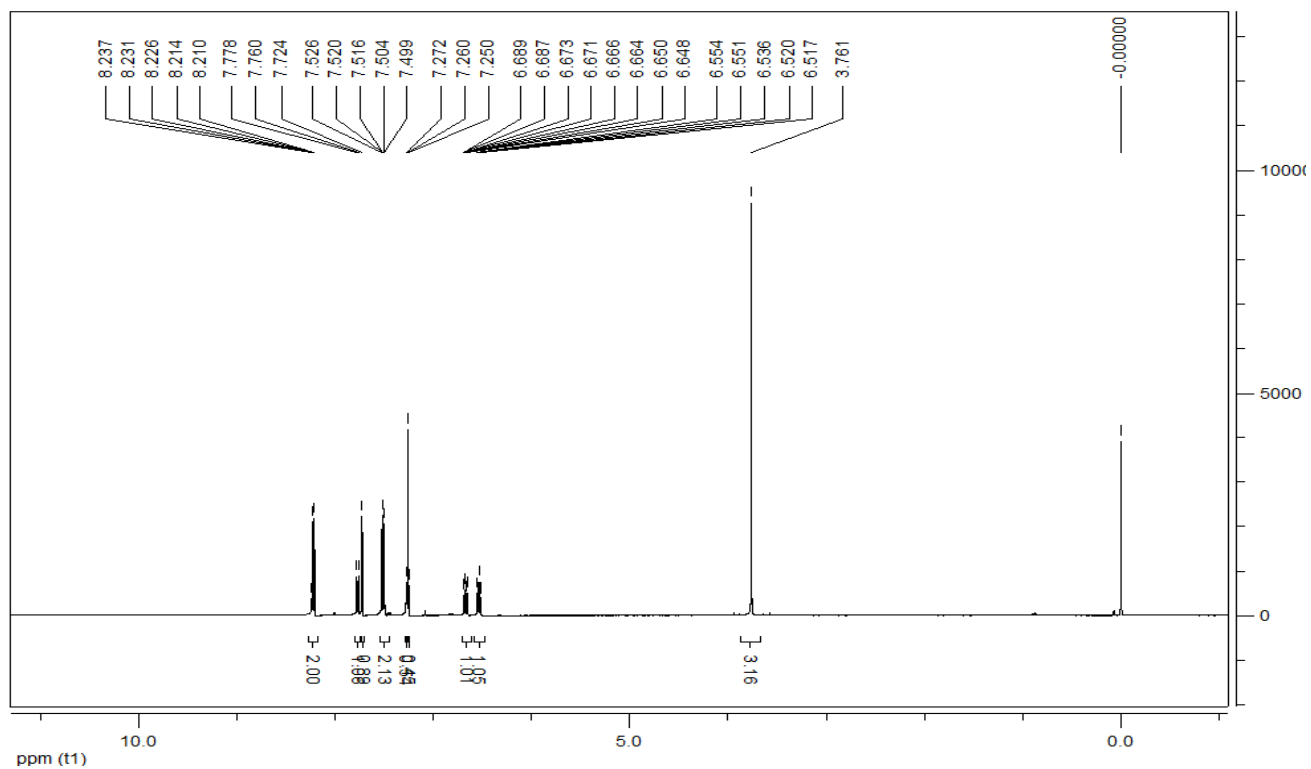
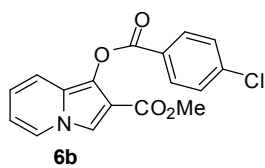








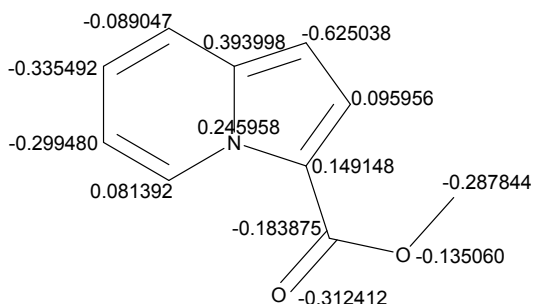




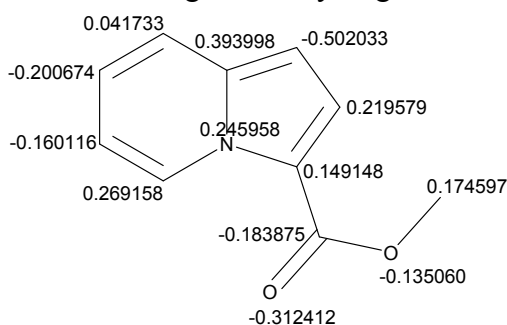
### B3LYP/6-31+G(d,p) Optimized Geometries and Atomic charges in 3-methoxycarbonylindolizine

Method: DFT, functional B3LYP, basis set 6-311+G(d,p), gas phase

Mulliken atomic charges at carbon atoms:



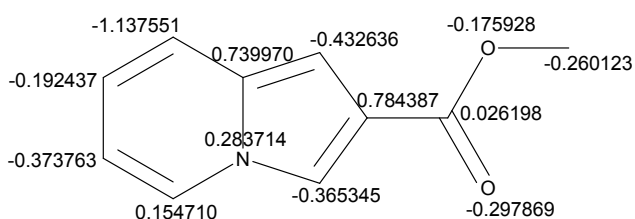
Mulliken charges with hydrogens summed into their linked carbon atoms:



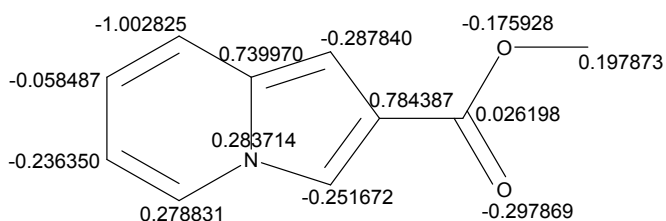
### B3LYP/6-31+G(d,p) Optimized Geometries and Atomic charges in Methyl indolizine-2-carboxylate

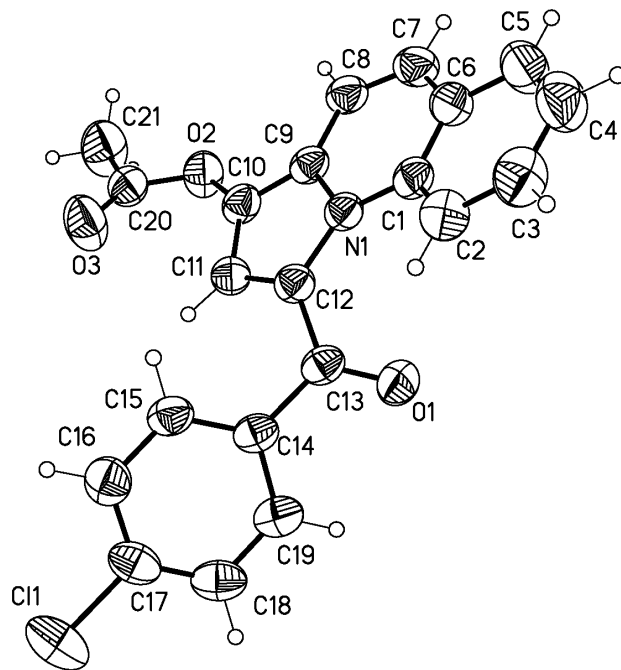
Method: DFT, functional B3LYP, basis set 6-311+G(d,p), gas phase

Mulliken atomic charges at carbon atoms:



Mulliken charges with hydrogens summed into their linked carbon atoms:





**ORTEP drawing of 2t (CCDC 1049376)**