

Supplementary Material

Formation of indole trimers in Vilsmeier type reactions

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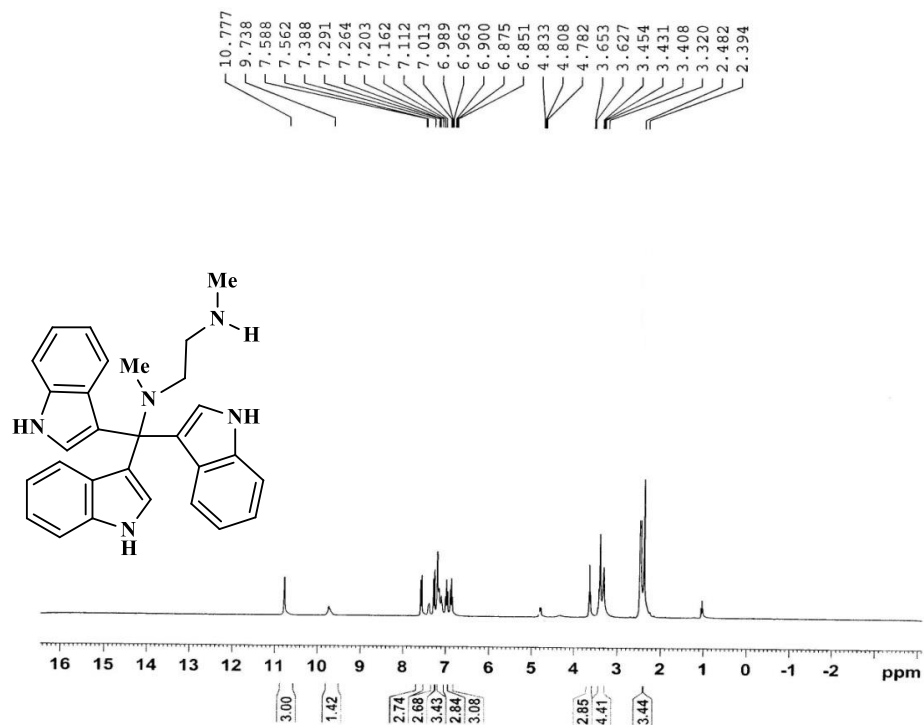
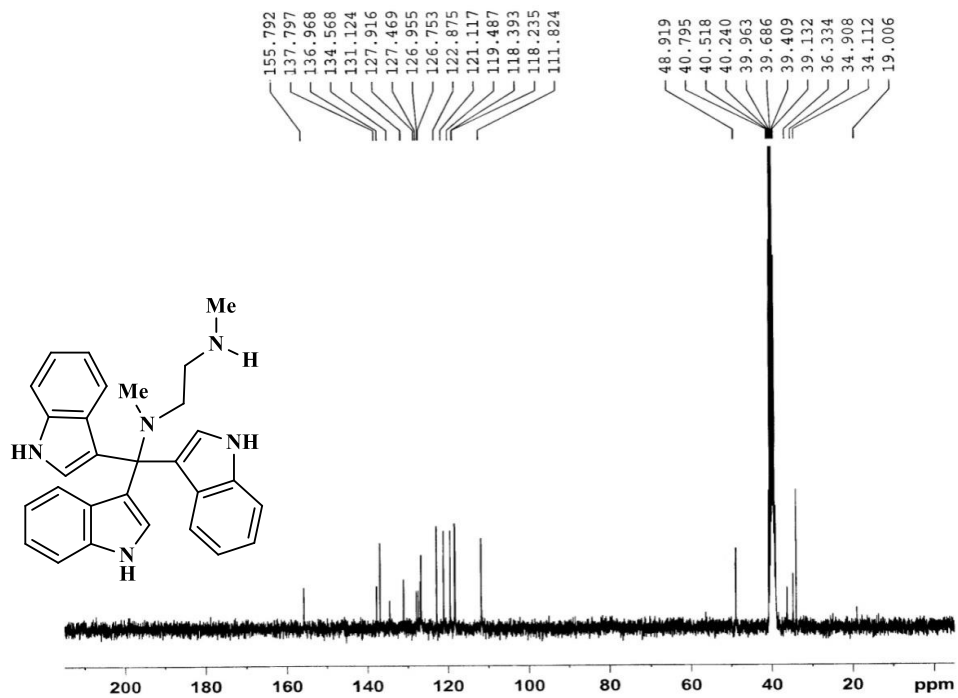
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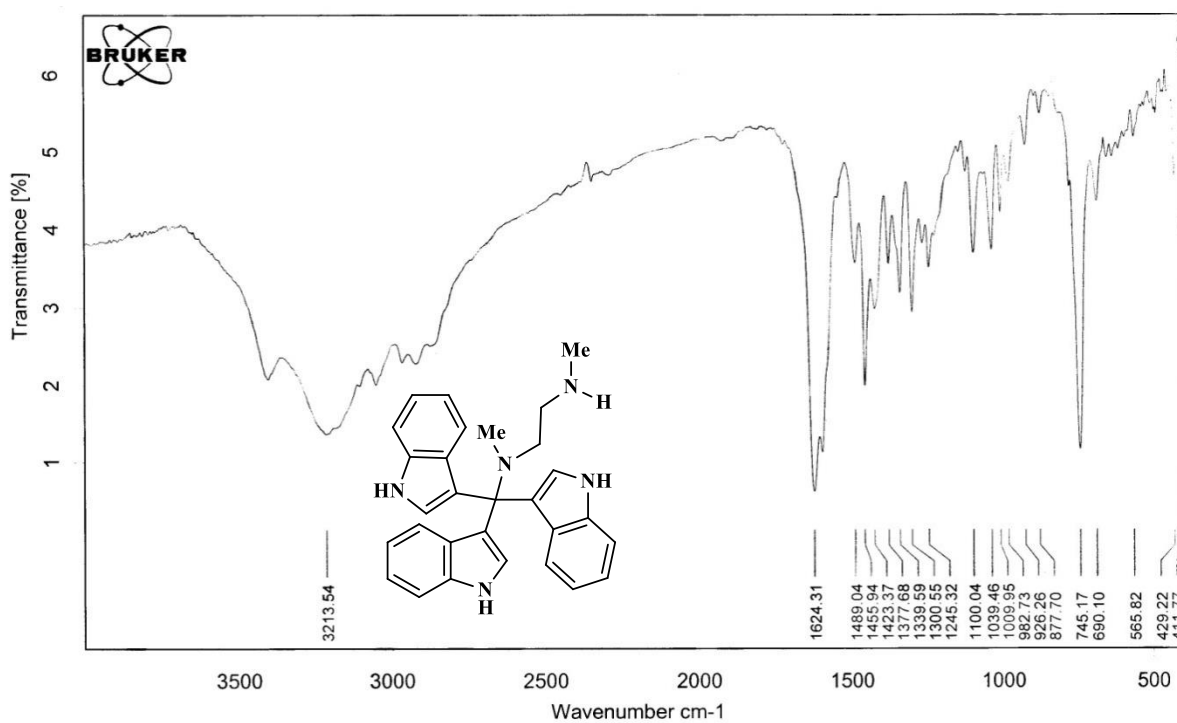
^b Young Researchers and Elite Club, Maku Branch, Islamic Azad University, Maku, 58619-93548, Iran

Email: aghazadehchemist@gmail.com

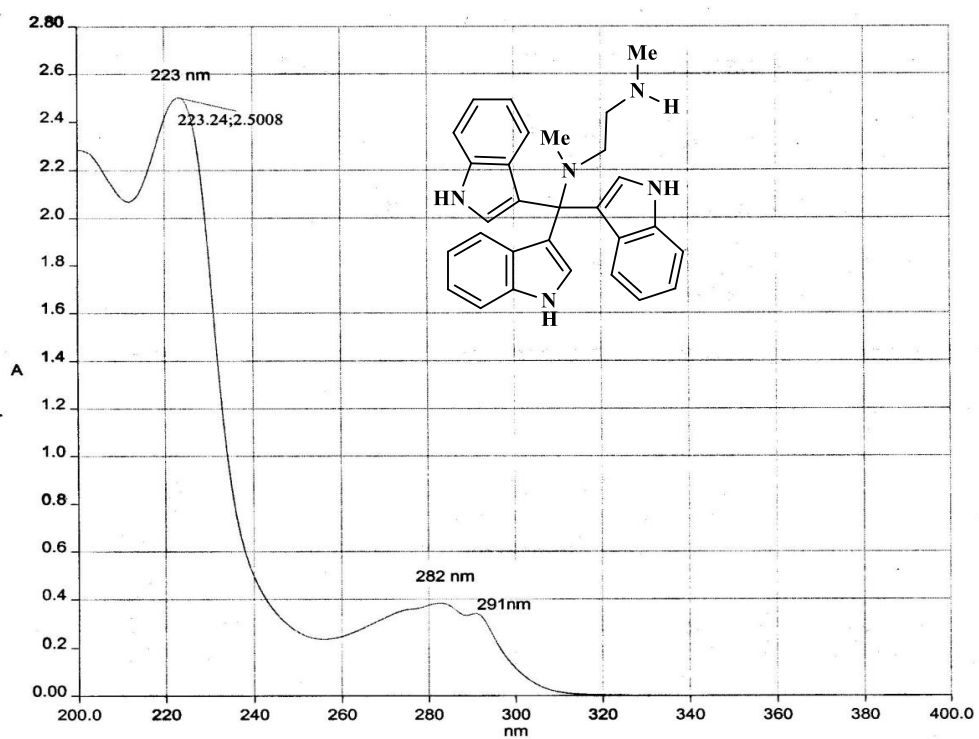
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¹ H-NMR, ¹³ C-NMR, FT-IR, UV, and GC-MASS Spectra of Compounds	S2
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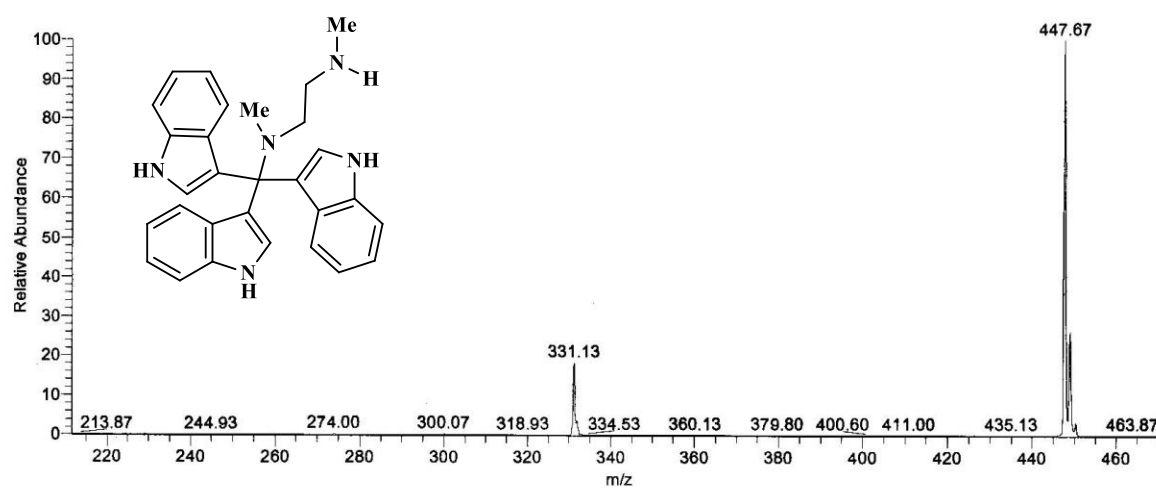
N₁,N₂-dimethyl-N₁-(tri(1*H*-indol-3-yl)methyl)ethane-1,2-diamine**¹H-NMR SPECTRUM (DMSO)****¹³C-NMR SPECTRUM (DMSO)**



FT-IR SPECTRUM (KBr)

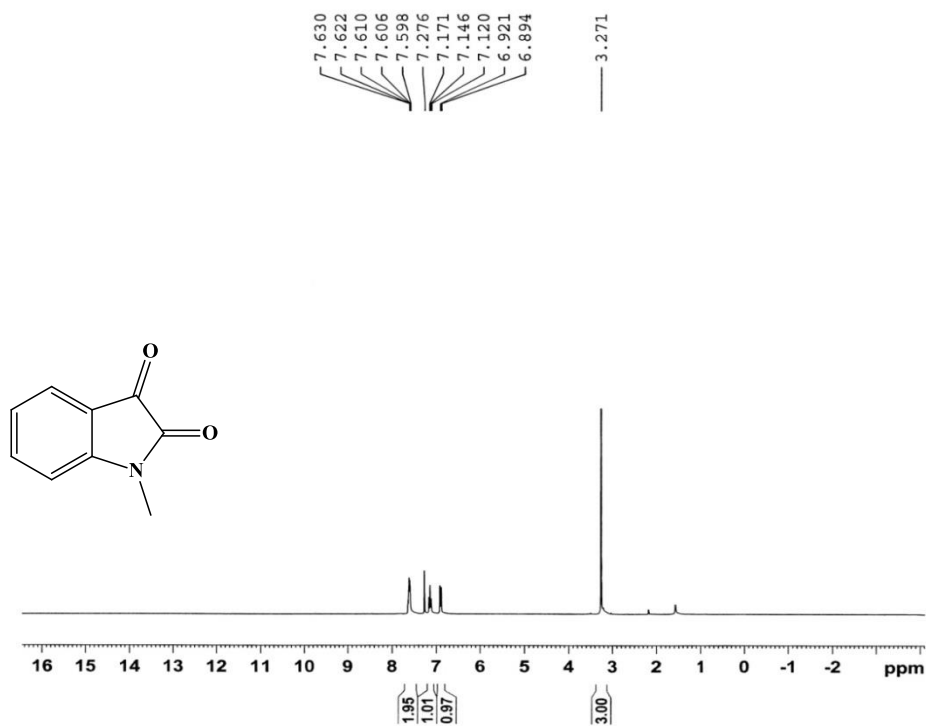
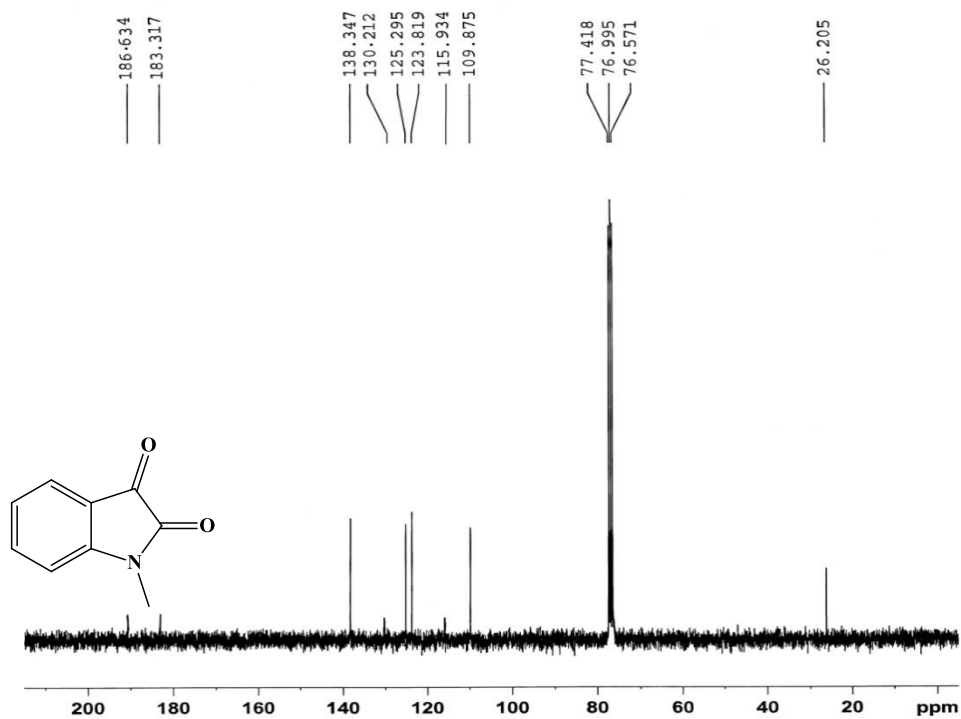


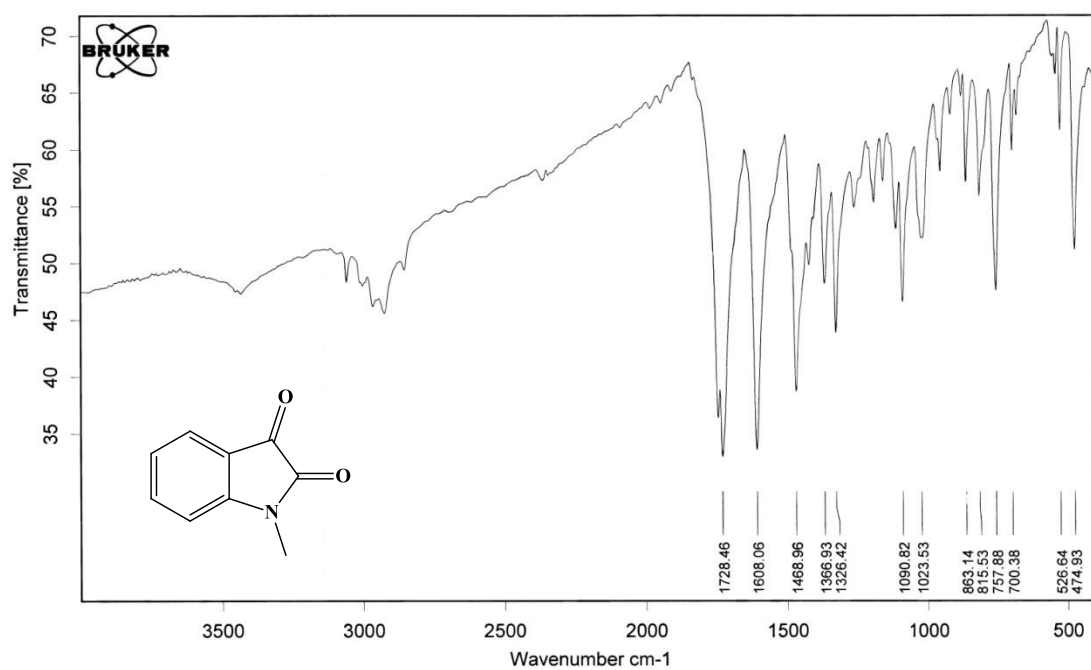
UV SPECTRUM (EtOH)



GC-MASS SPECTRUM (70ev)

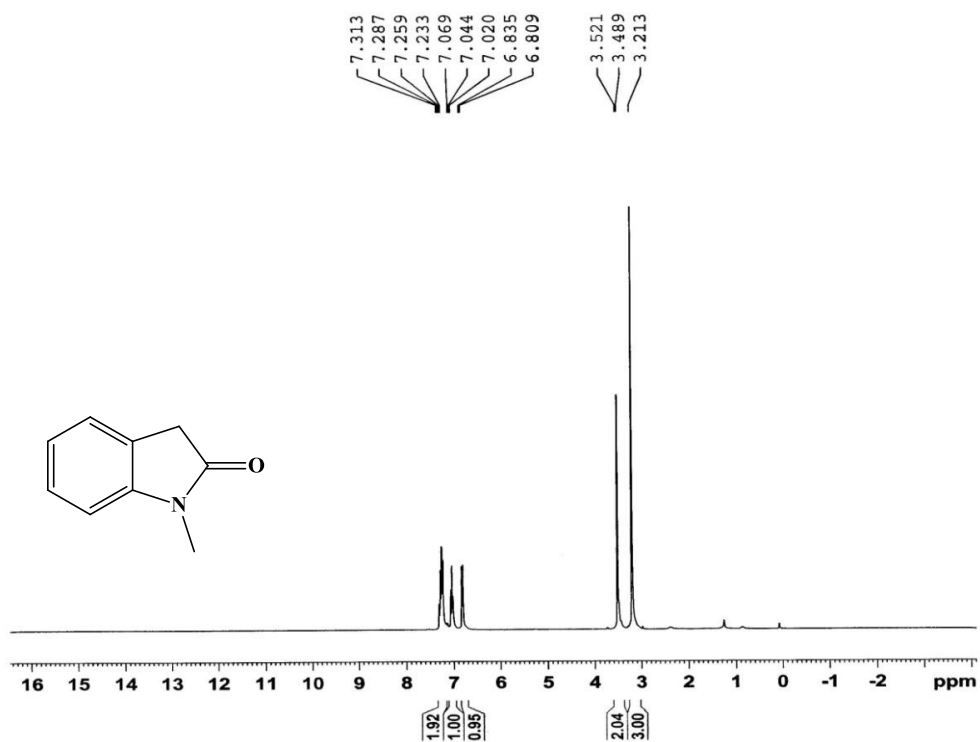
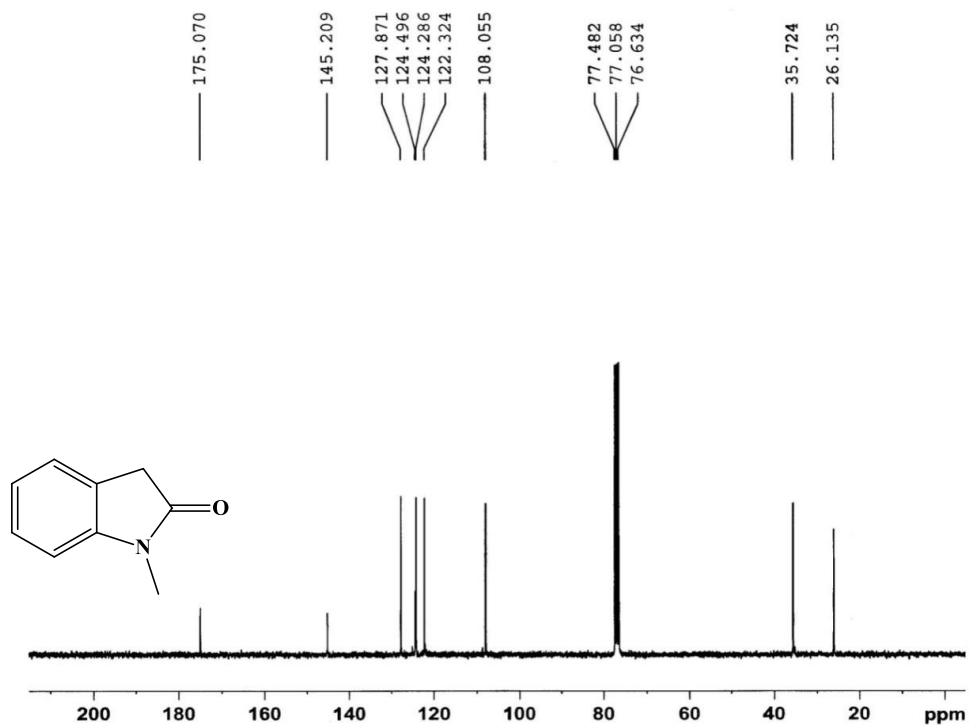
N-methylisatin

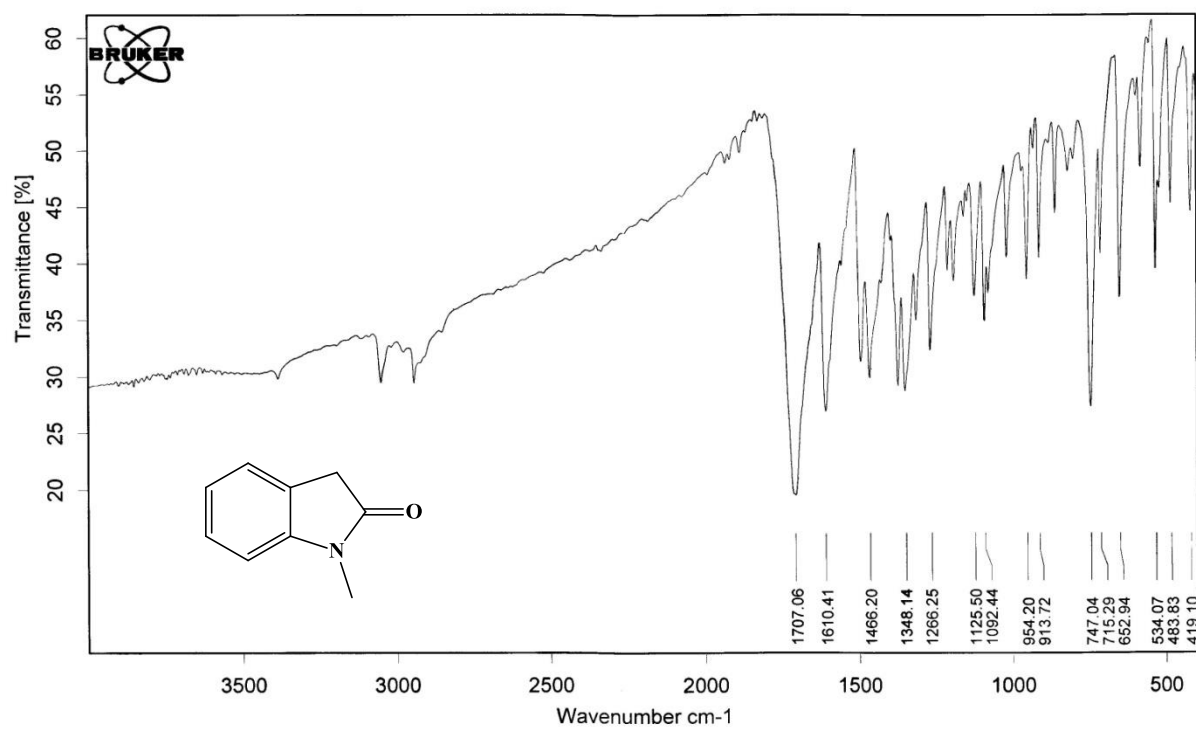
¹H-NMR SPECTRUM (CDCl₃)¹³C-NMR SPECTRUM (CDCl₃)



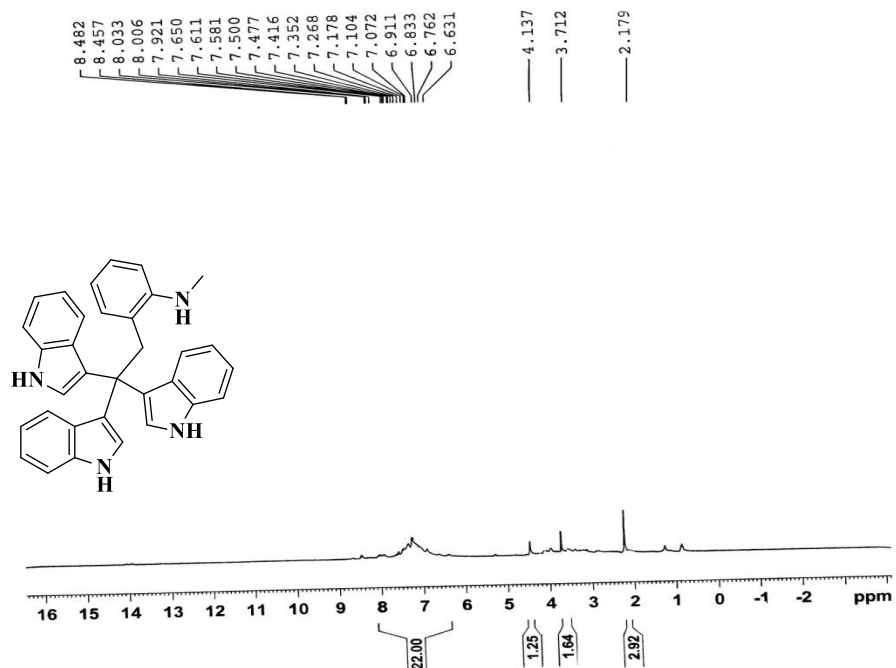
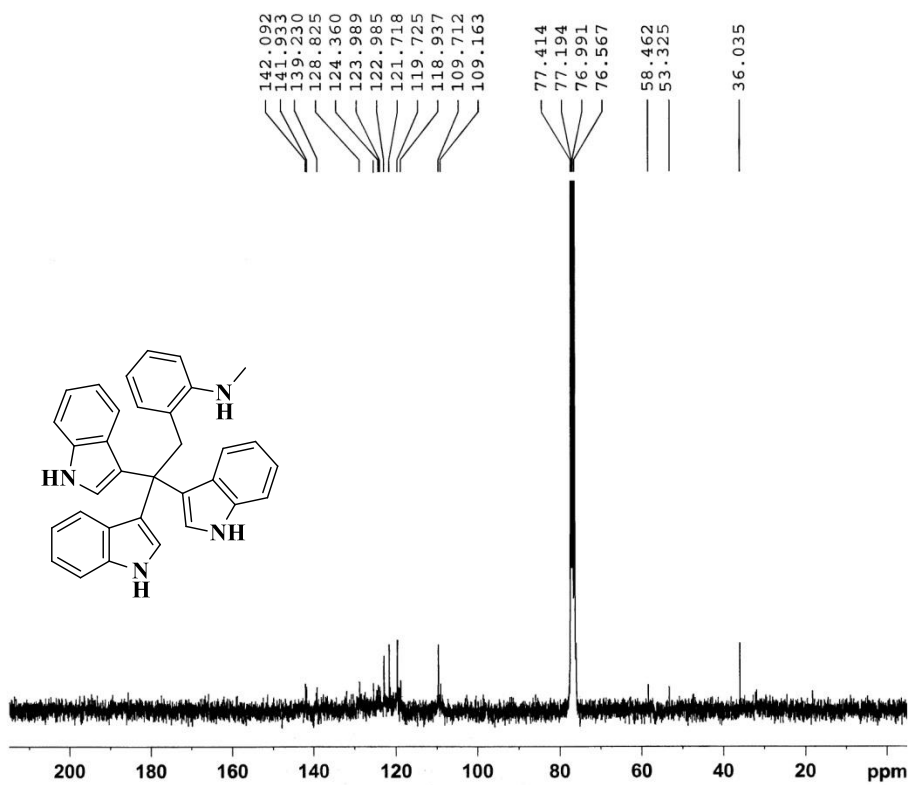
FT-IR SPECTRUM (KBr)

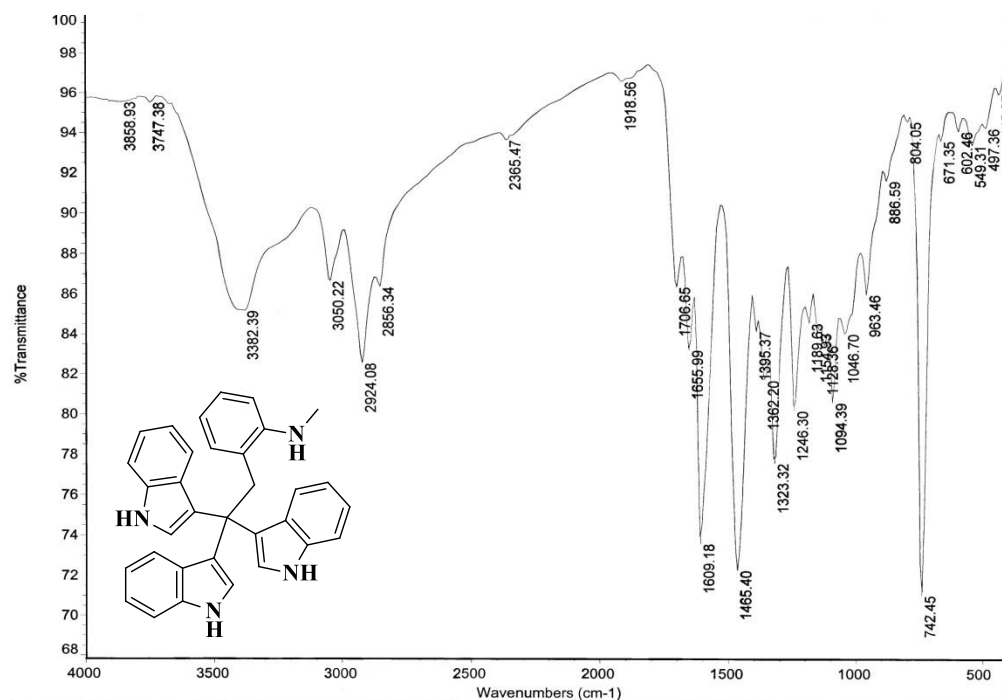
N-methyloxindole

¹H-NMR SPECTRUM (CDCl₃)¹³C-NMR SPECTRUM (CDCl₃)

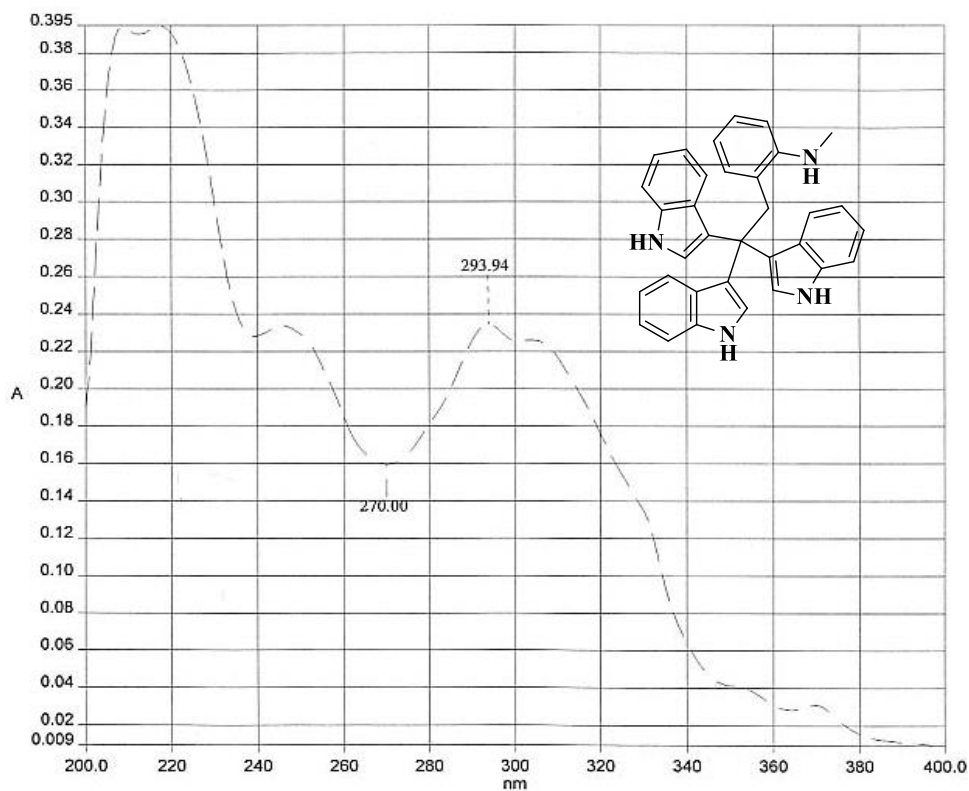


FT-IR SPECTRUM (KBr)

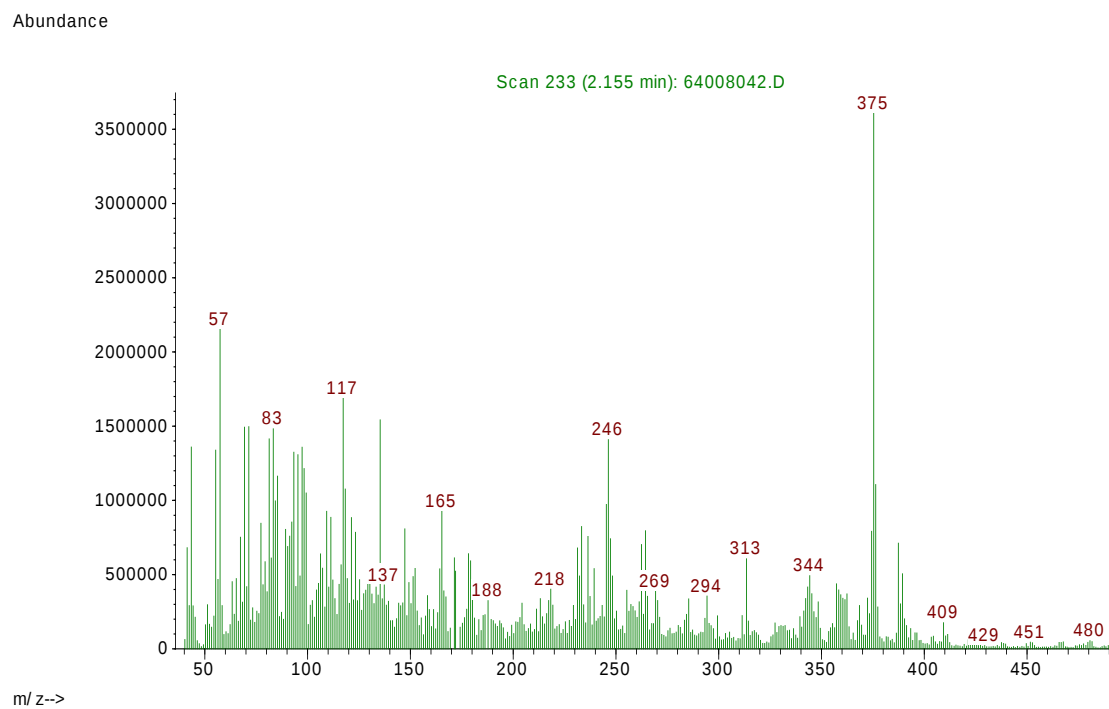
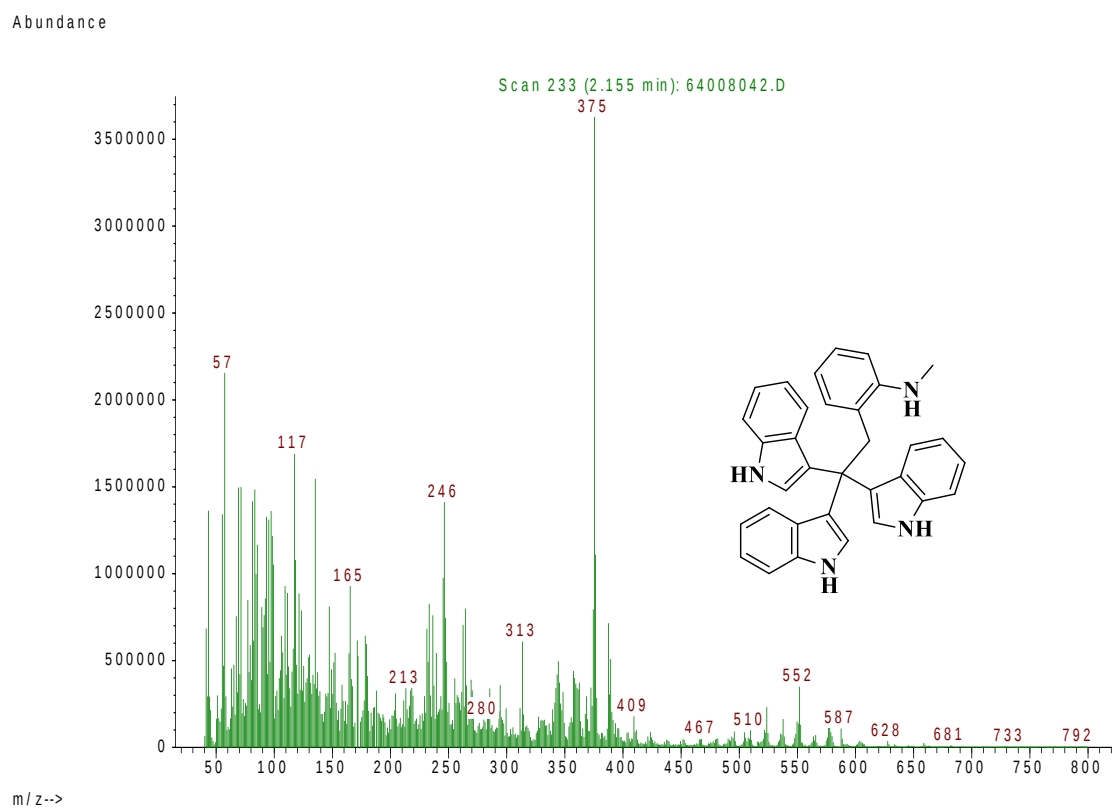
N-methyl-2-(2,2,2-tri(1H-indol-3-yl)ethyl)aniline**¹H-NMR SPECTRUM (CDCl₃)****¹³C-NMR SPECTRUM (CDCl₃)**



FT-IR SPECTRUM (KBr)



UV SPECTRUM (EtOH)



MS SPECTRUM (70ev)