

Supporting Information

Ru(II)-catalyzed regioselective hydroxymethylation of β -carboline and isoquinoline *via* C-H functionalization: Probing the mechanism by online ESI-MS/MS screening

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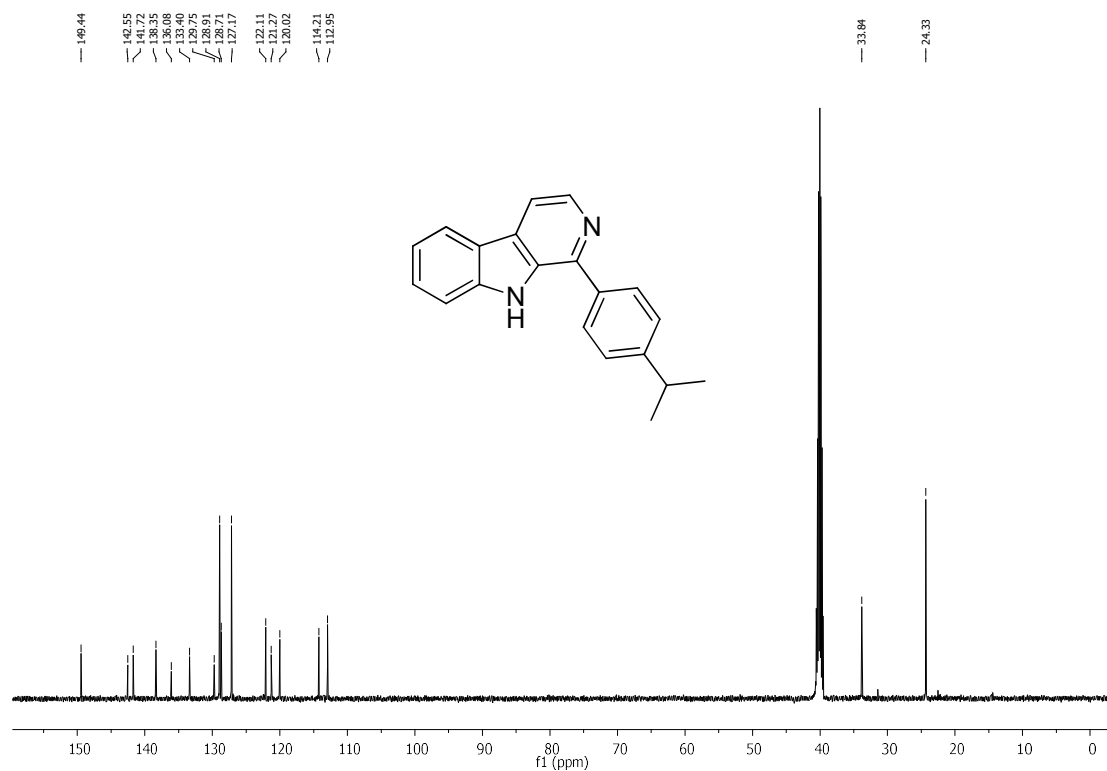
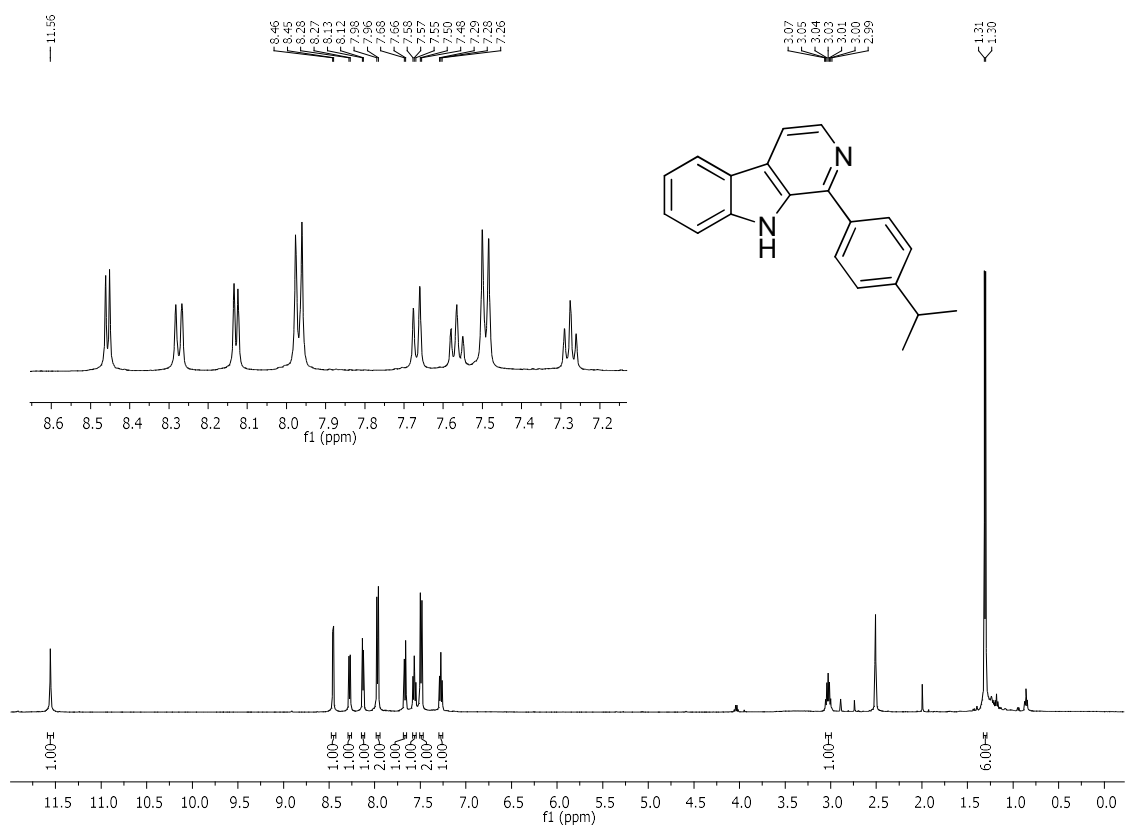
²*Intituto de Ciencias Químicas Aplicadas, Universidad Autónoma de Chile, sede Talca, 3467987, Chile*

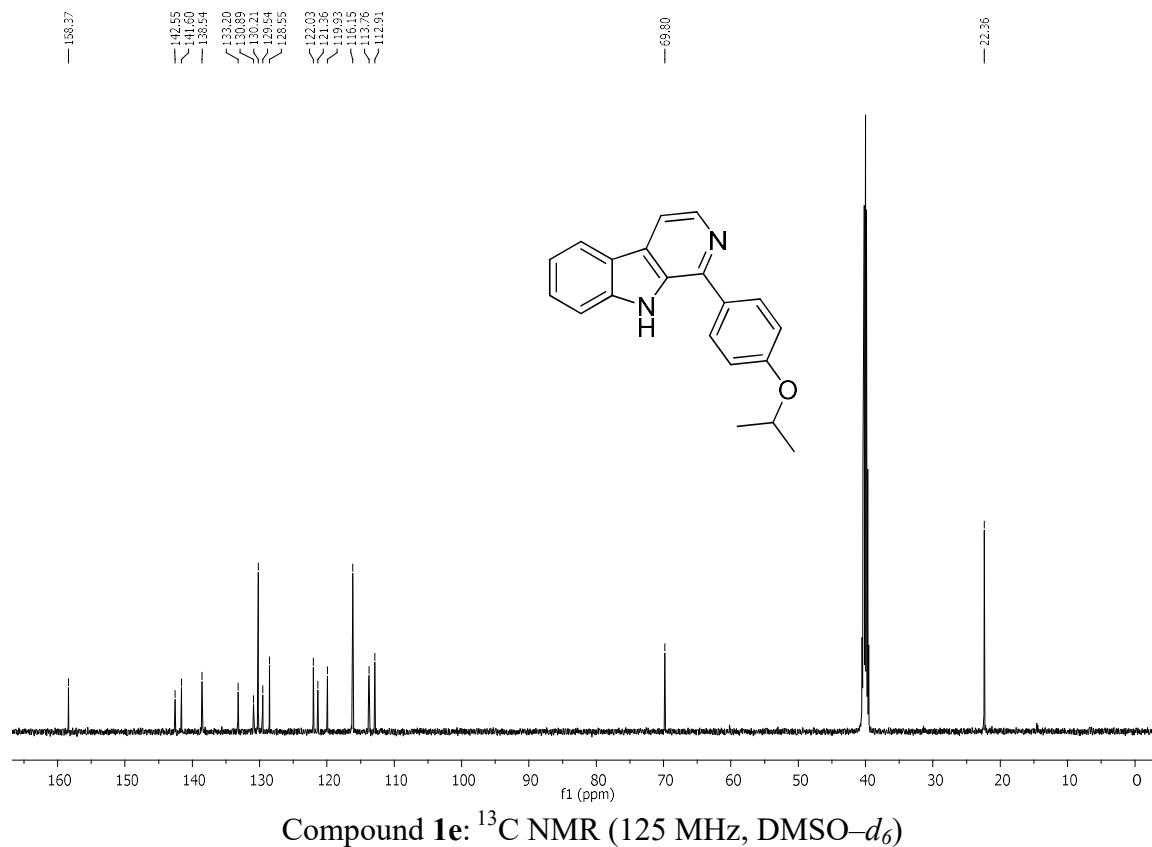
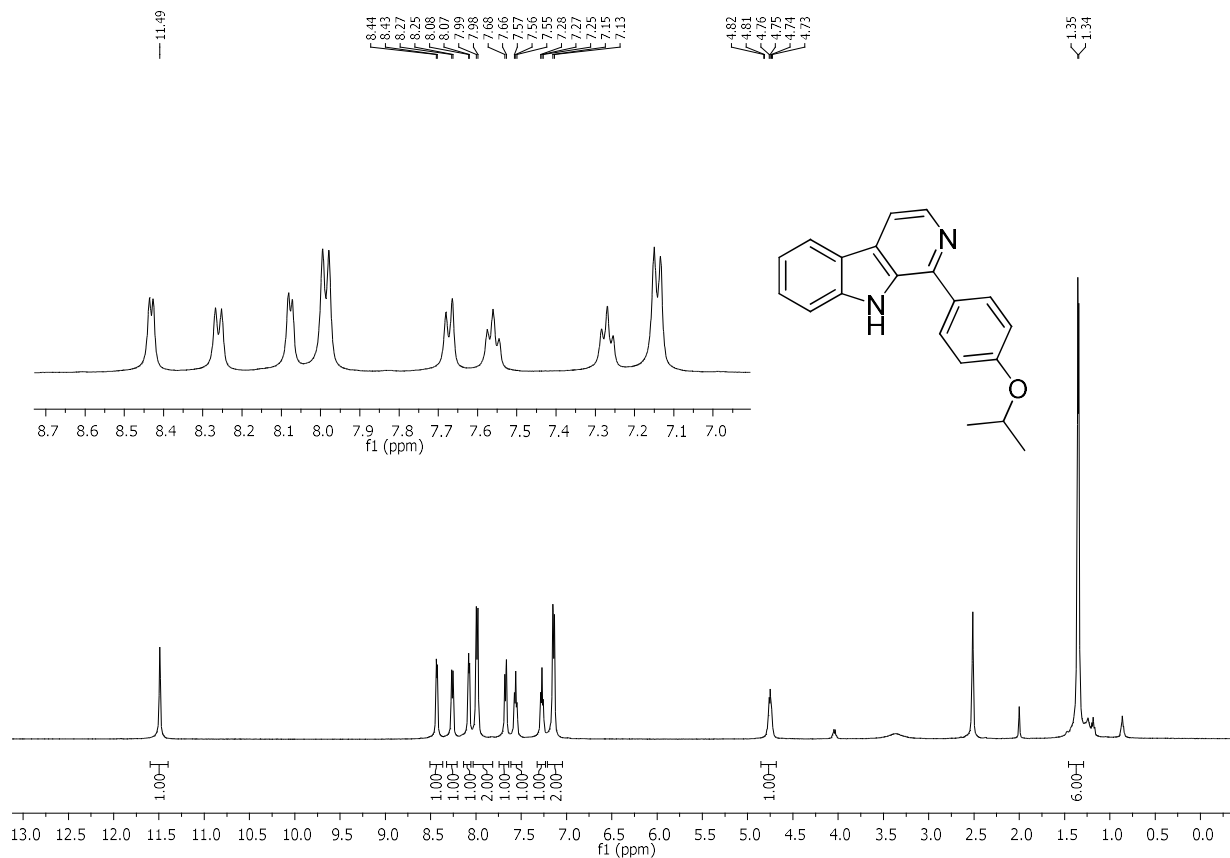
³*Instituto de Química de Recursos Naturales, Universidad de Talca, Talca, 3462227, Chile*

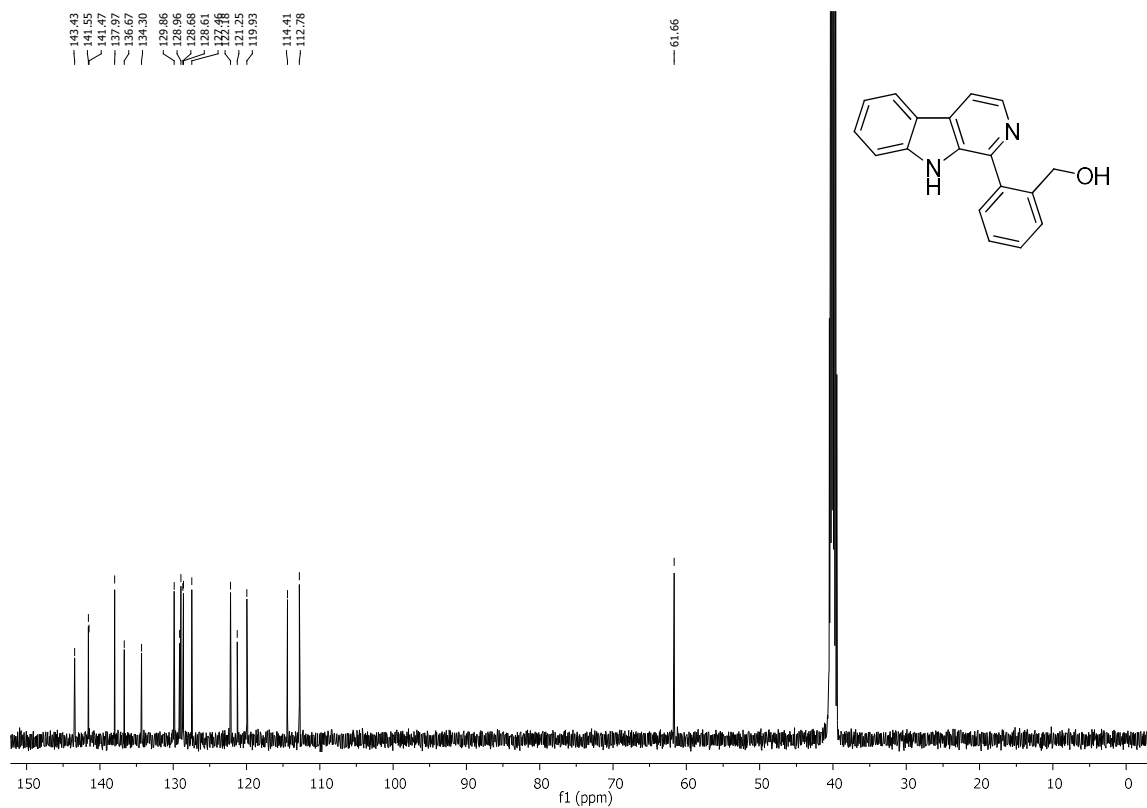
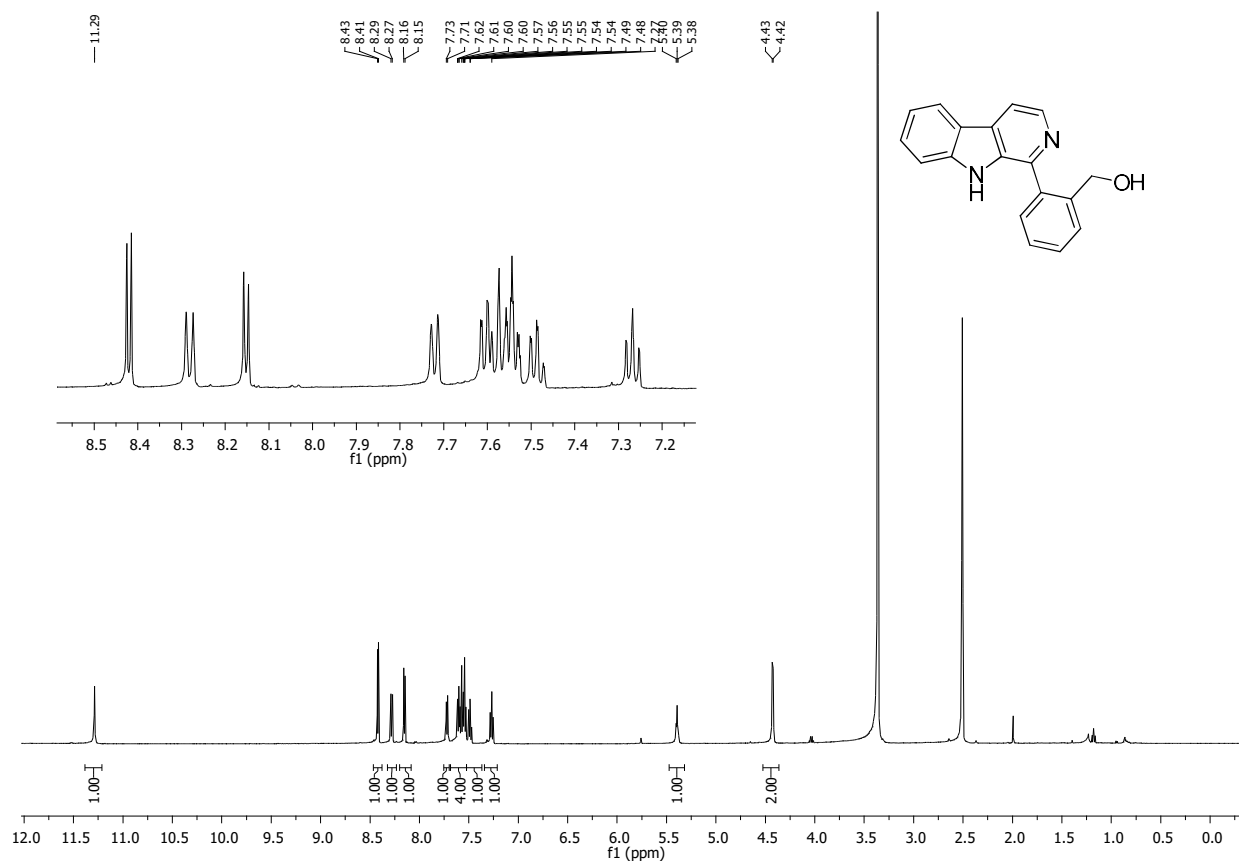
*Corresponding author: Email: lssantos@utalca.cl; shankar@niperhyd.ac.in

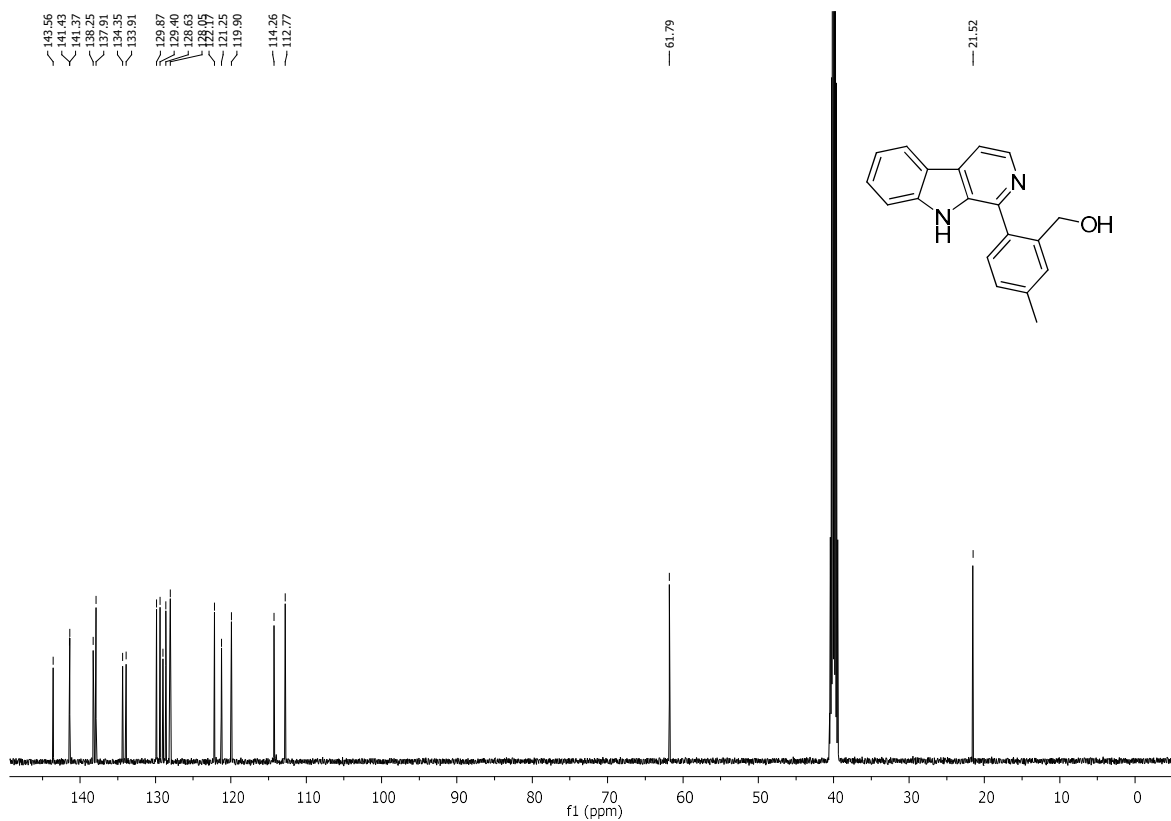
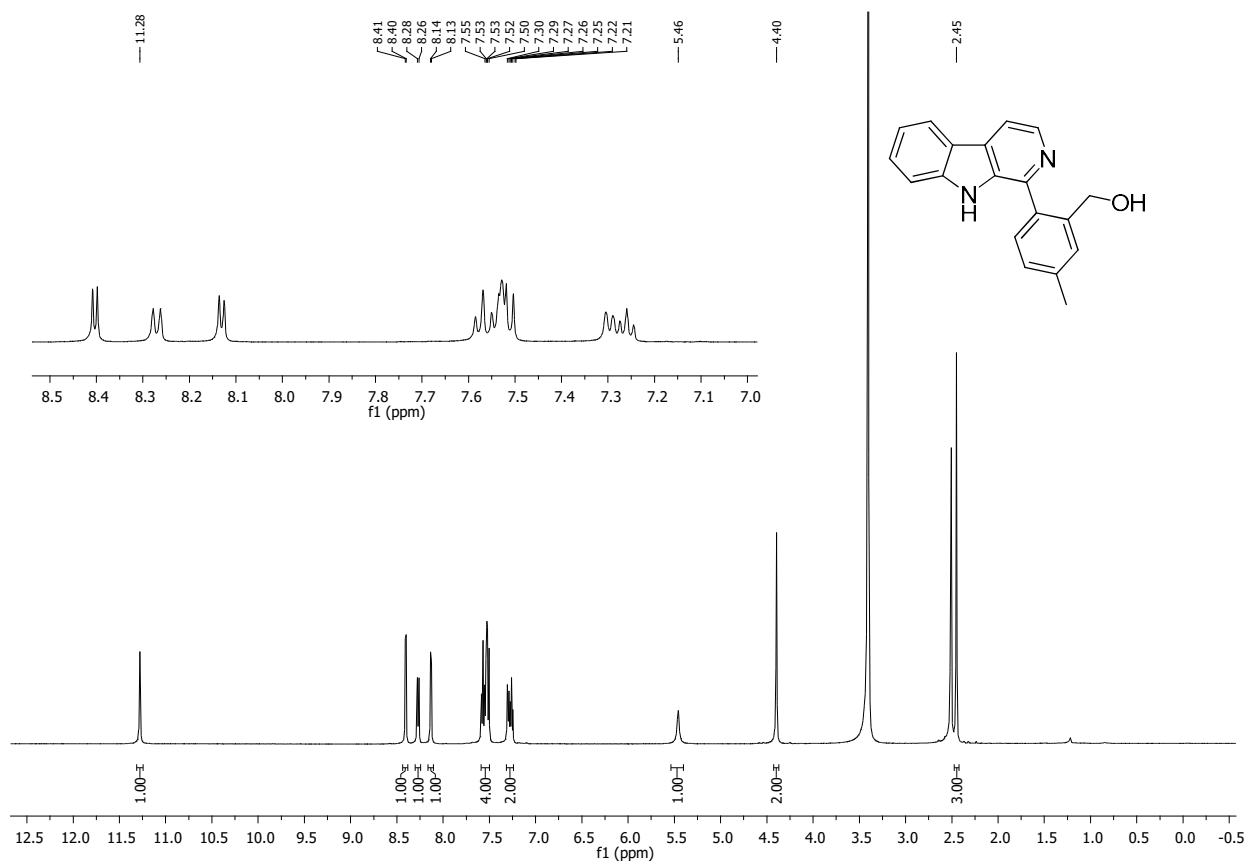
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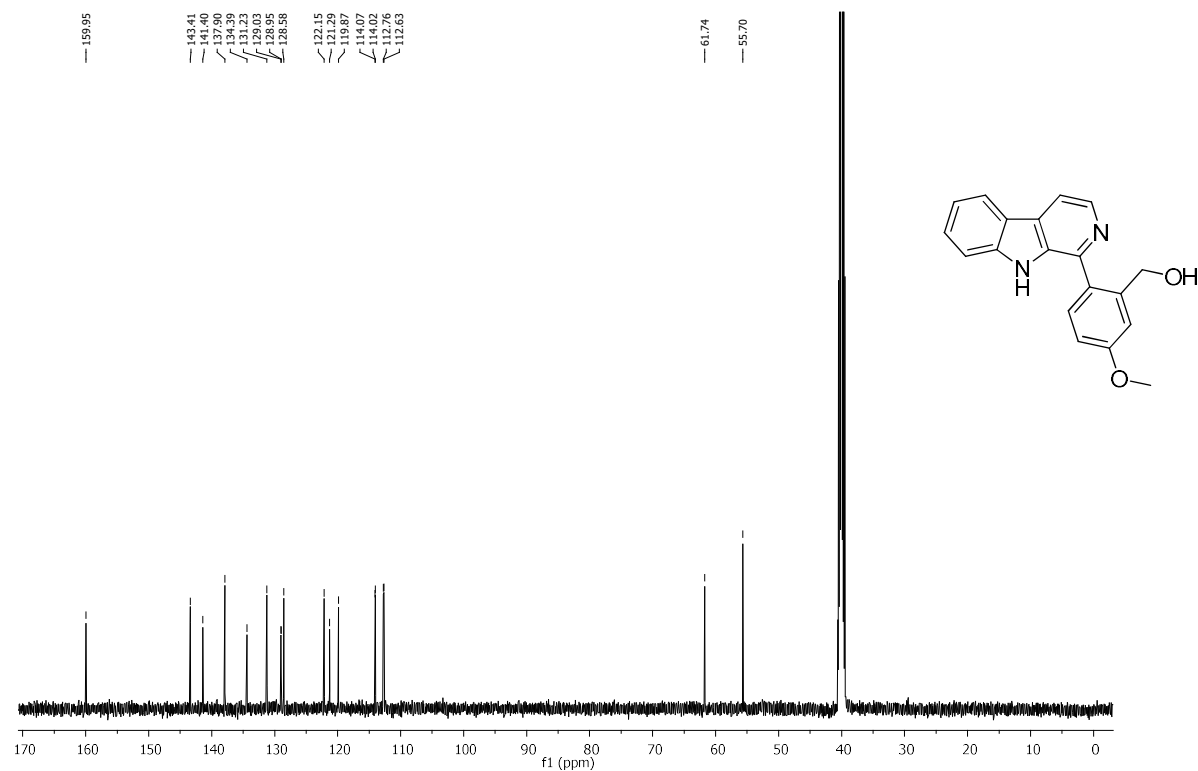
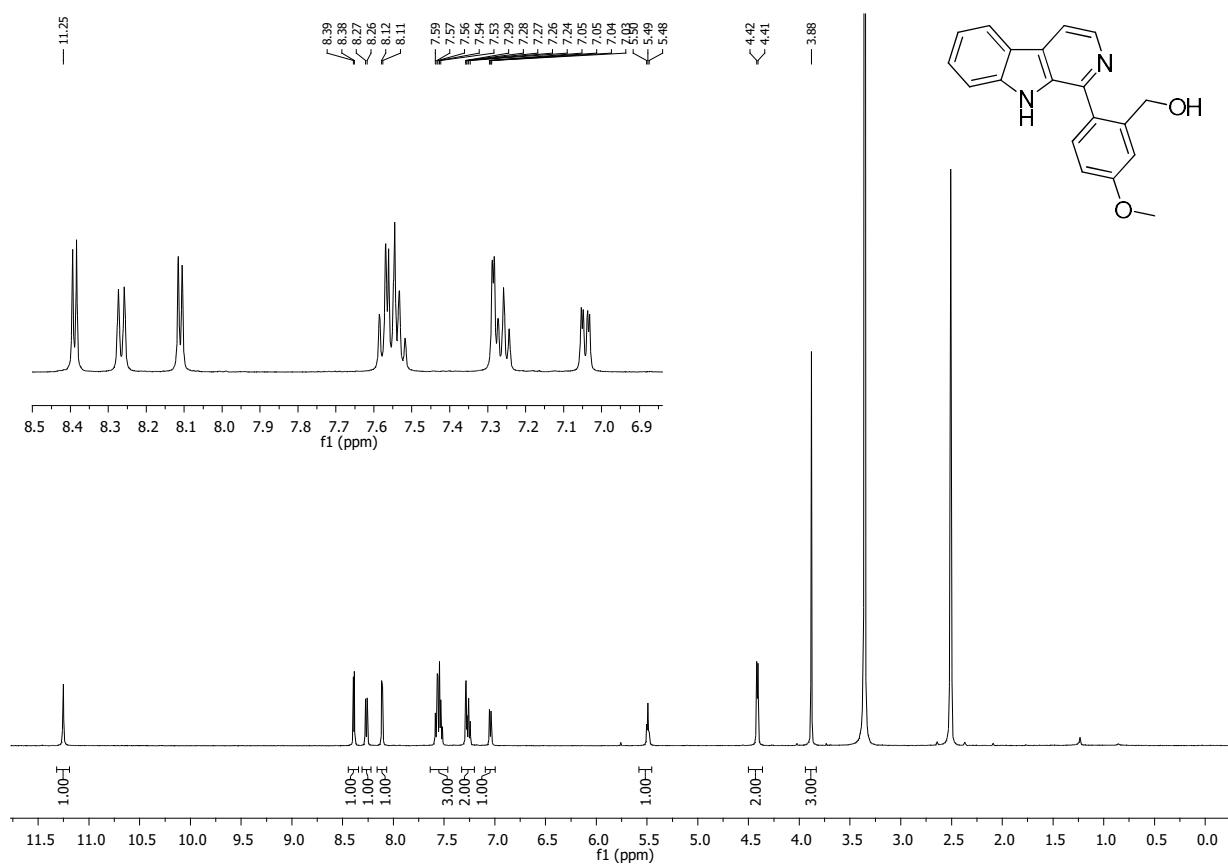
Copies of Spectra

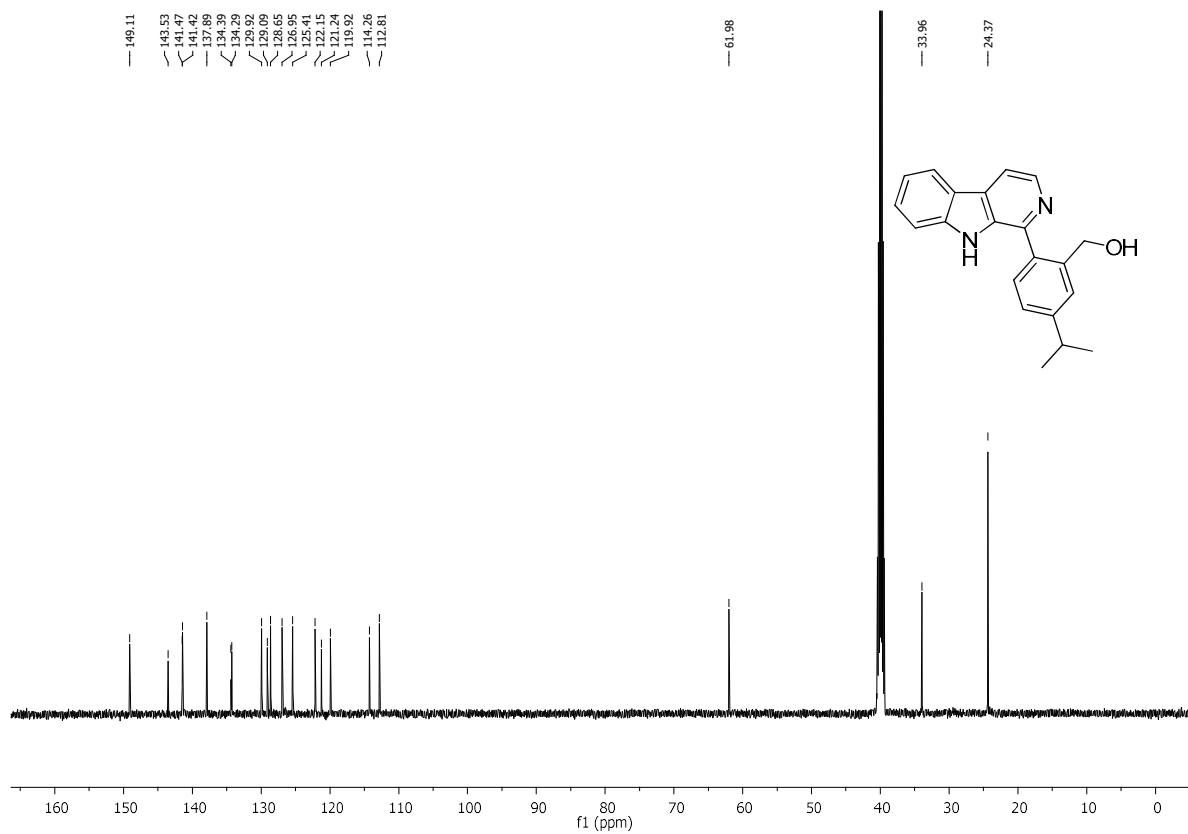
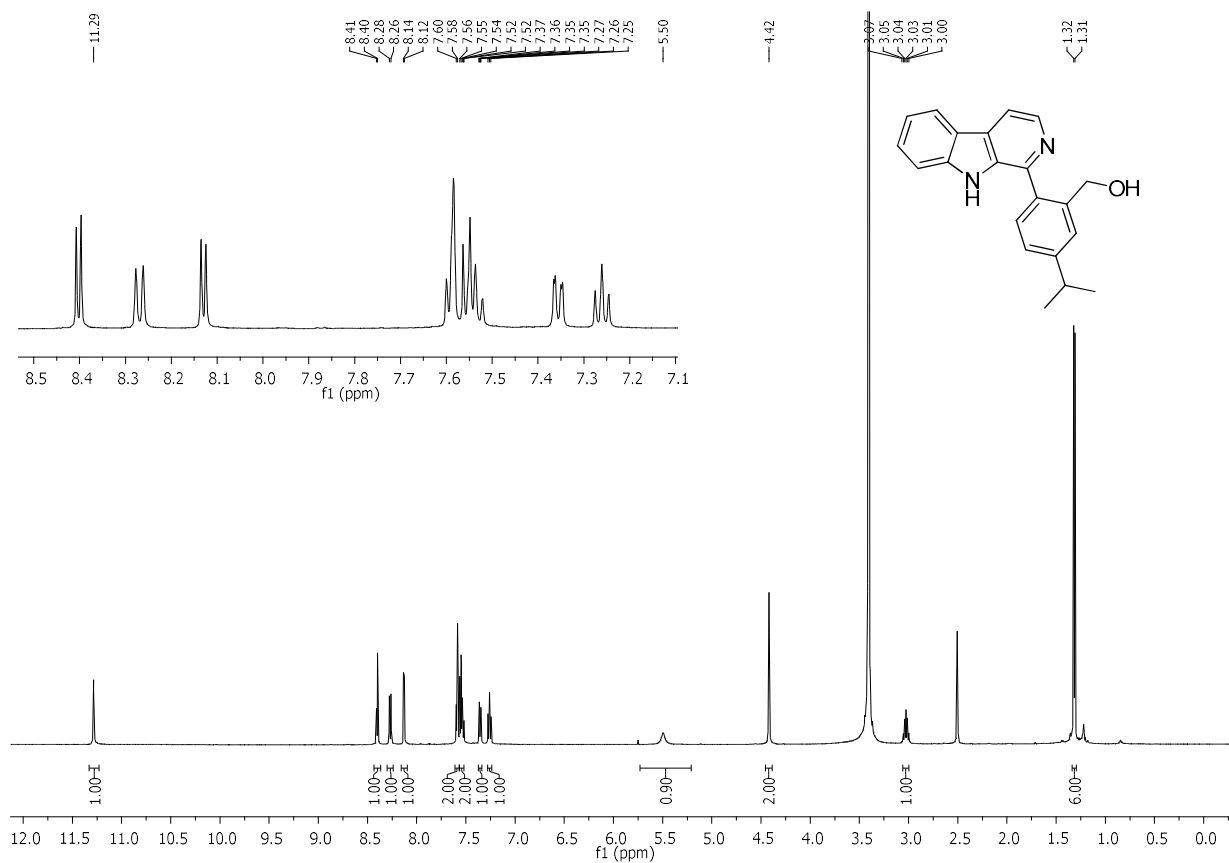


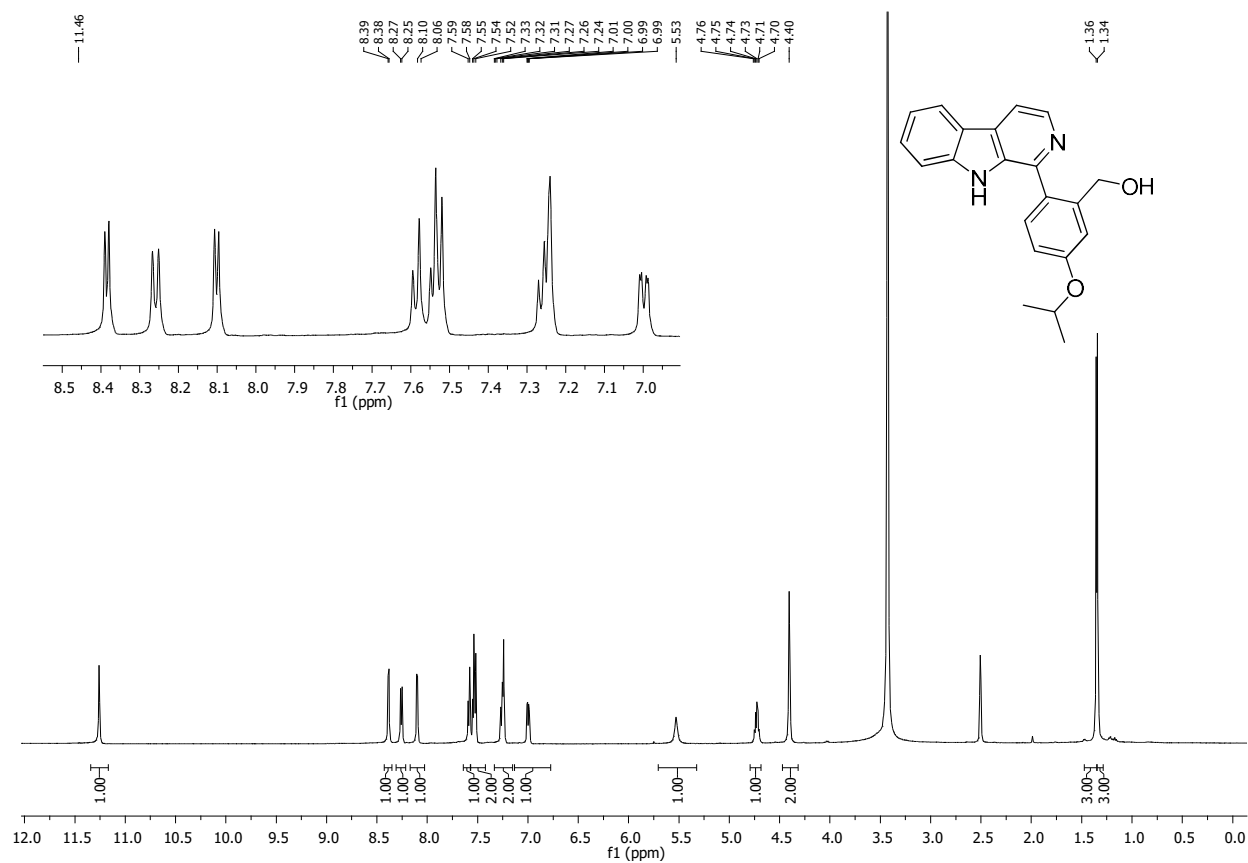




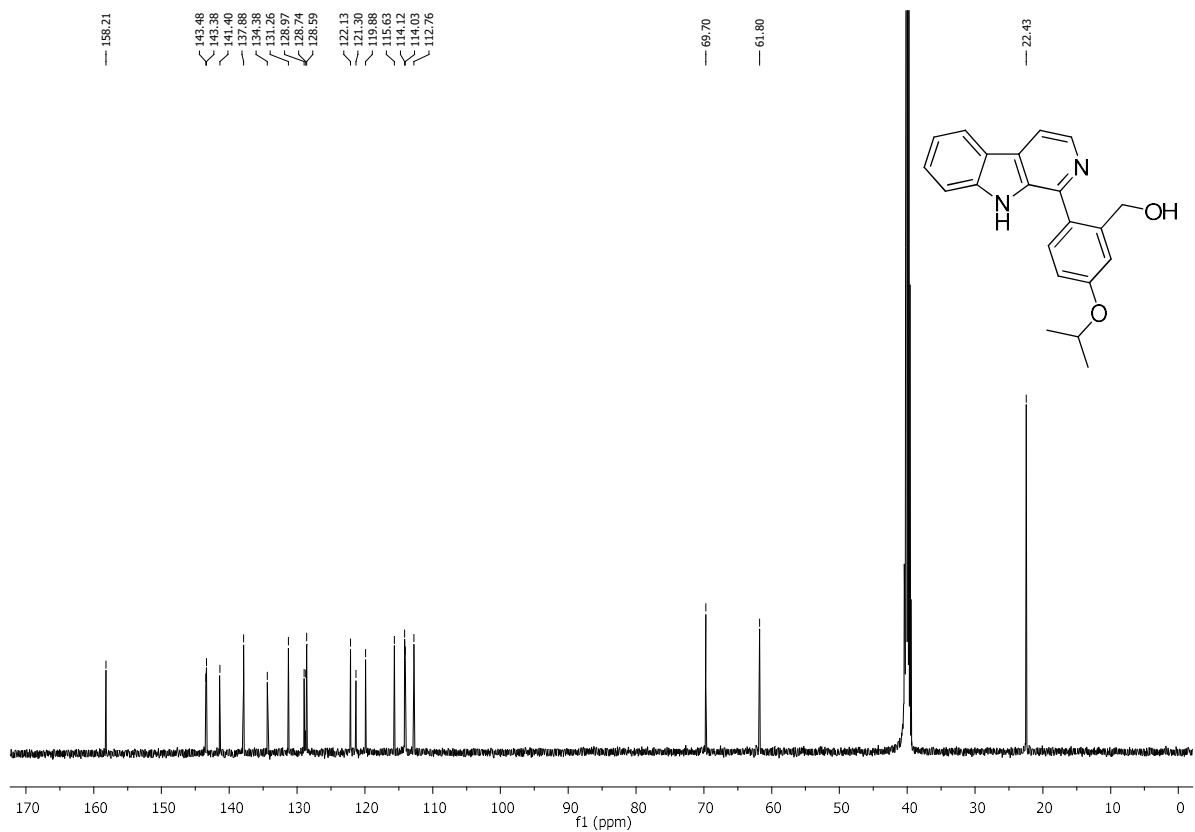




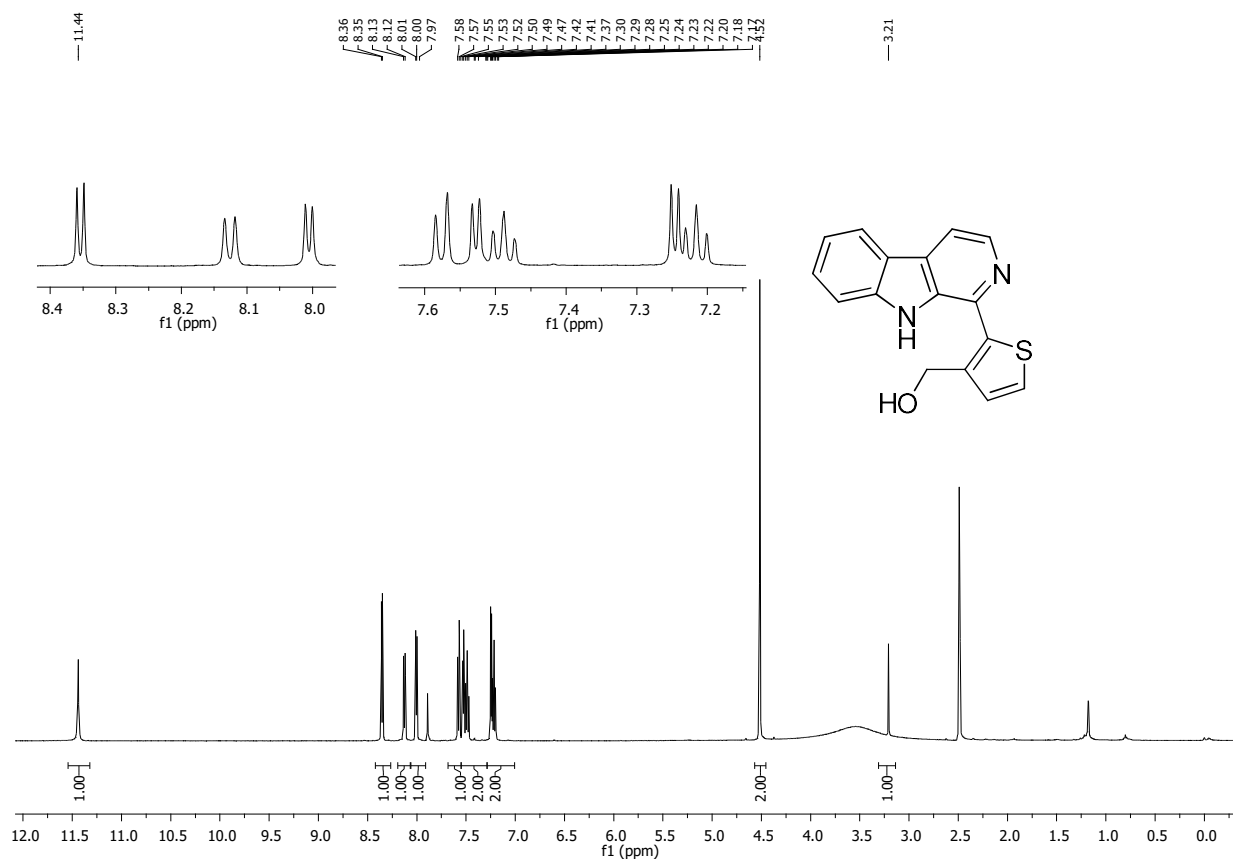




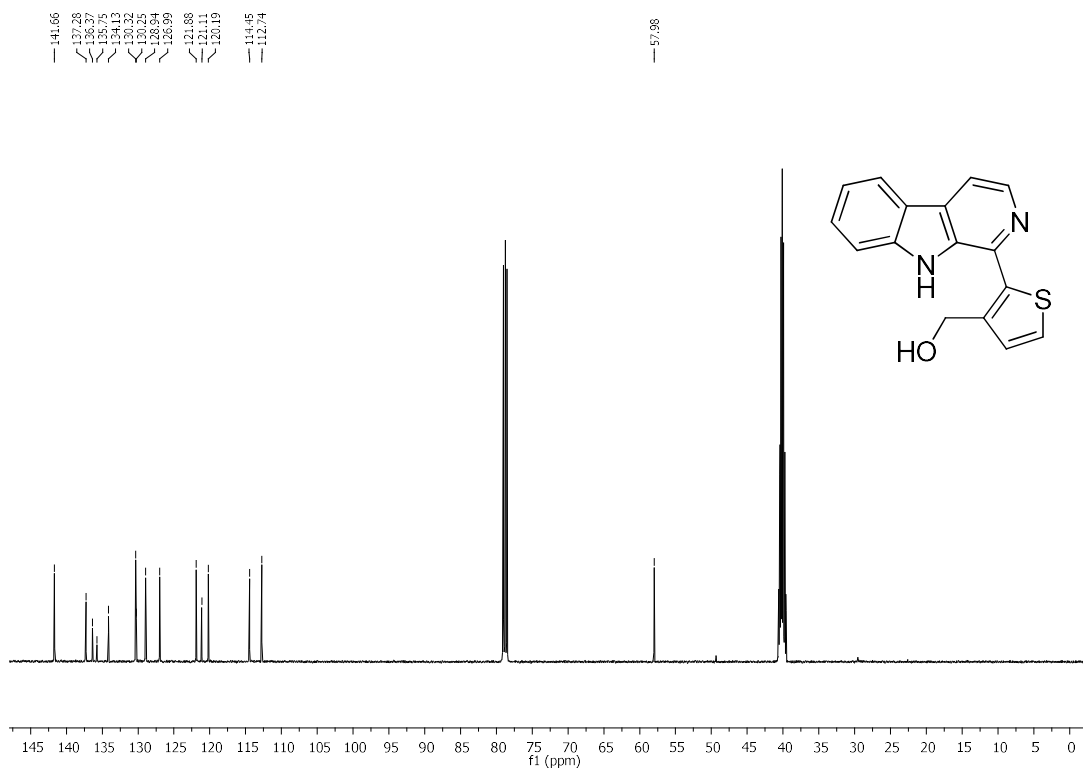
Compound 2e: ¹H NMR (500 MHz, DMSO-*d*₆)



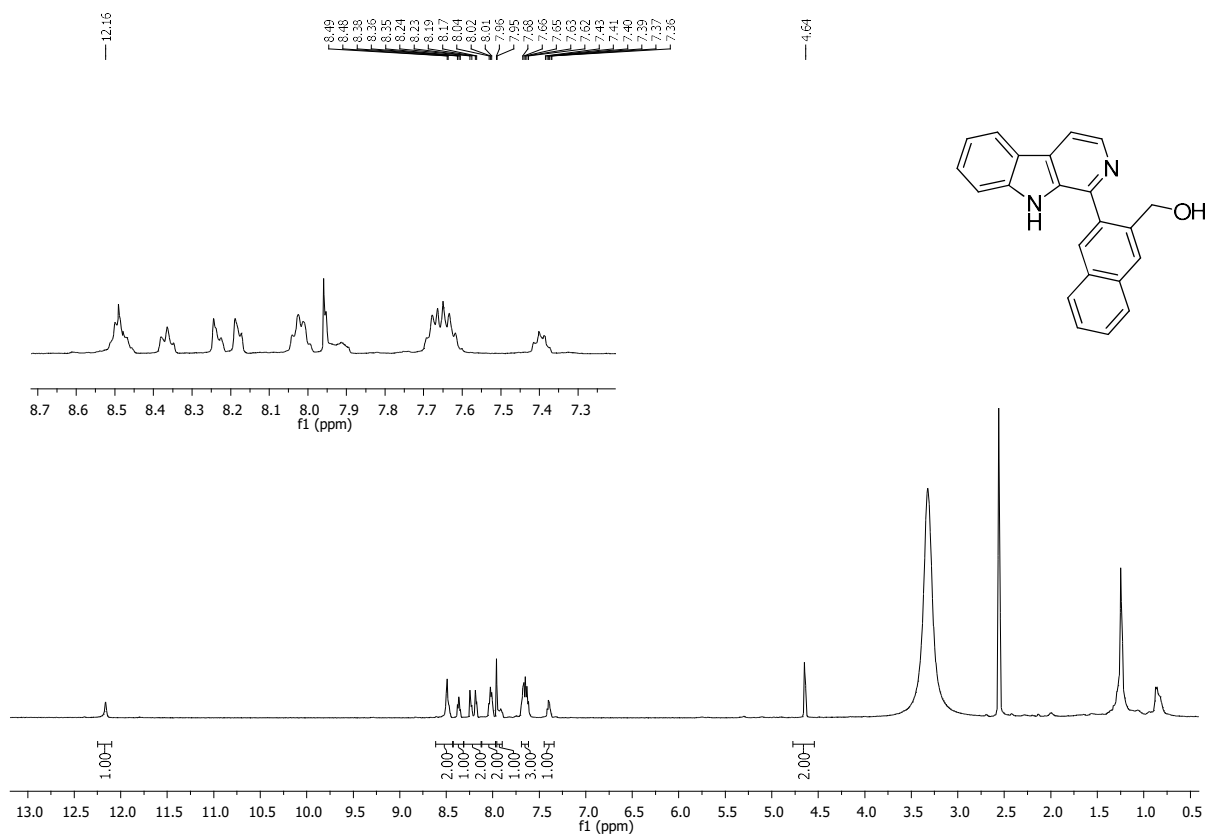
Compound 2e: ¹³C NMR (125 MHz, DMSO-*d*₆)



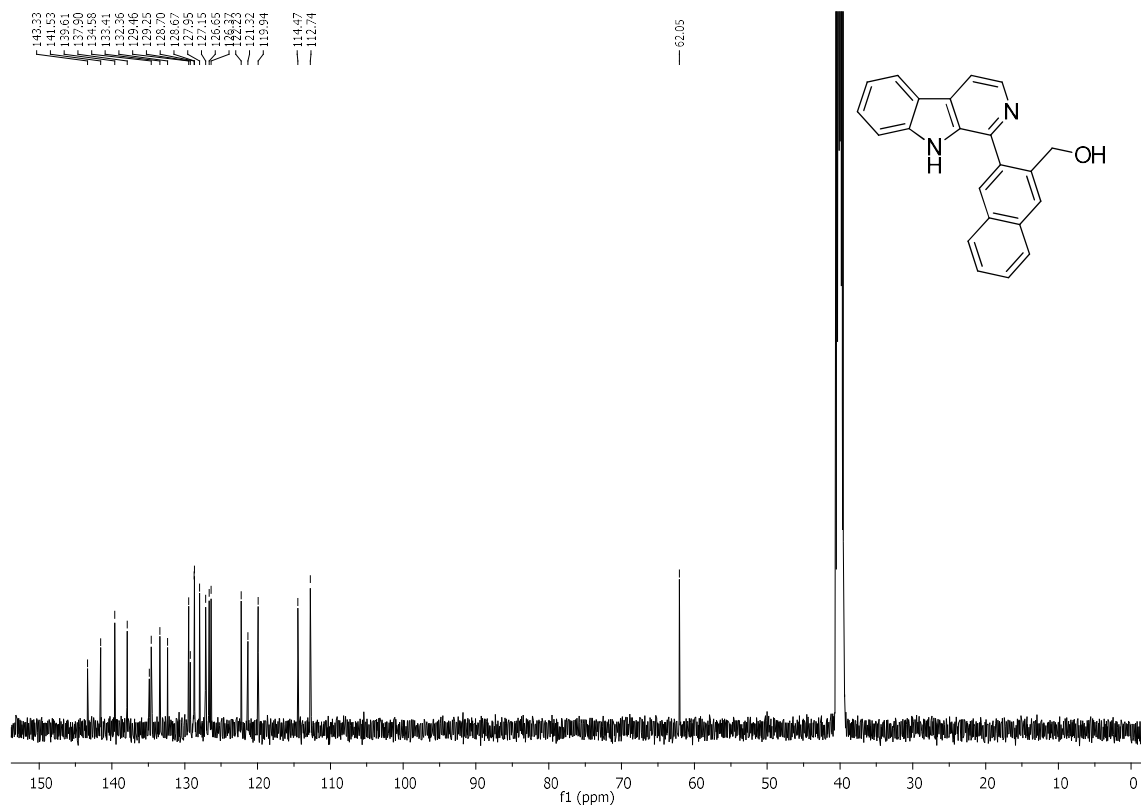
Compound 2f: ¹H NMR (500 MHz, DMSO-*d*₆)



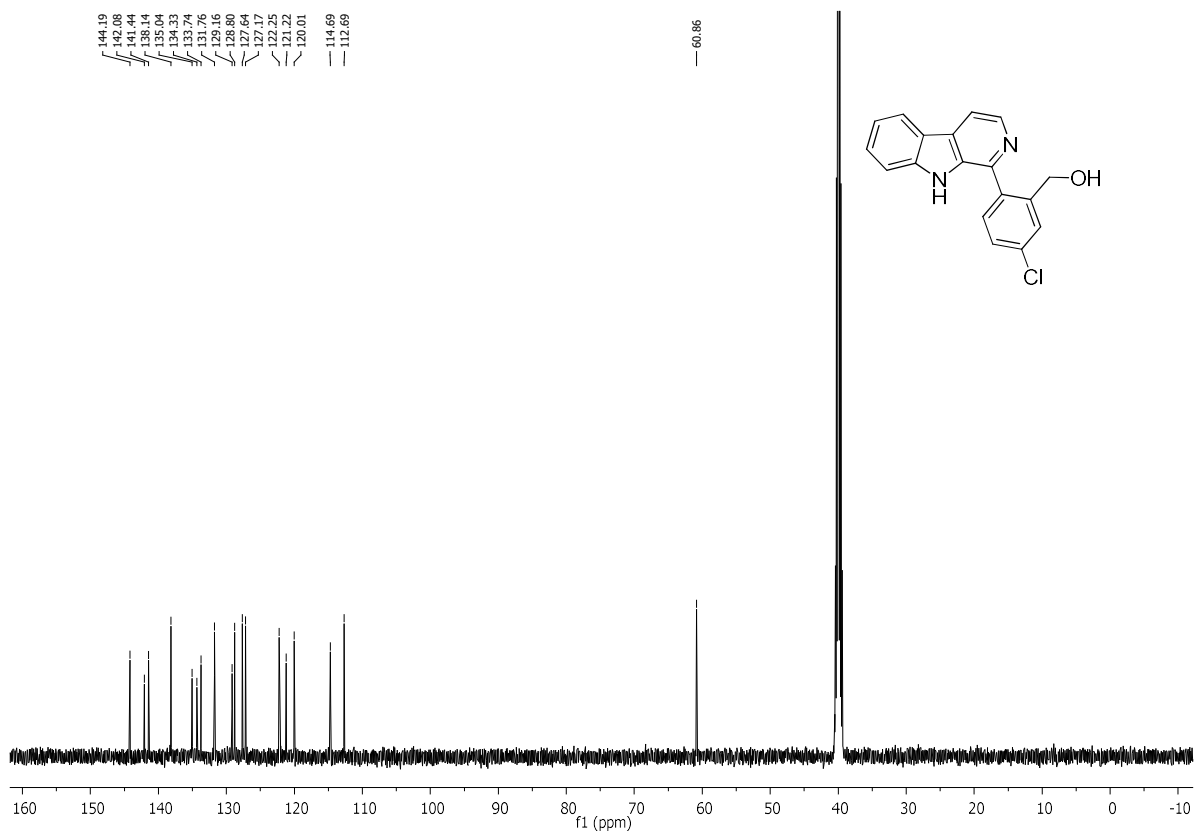
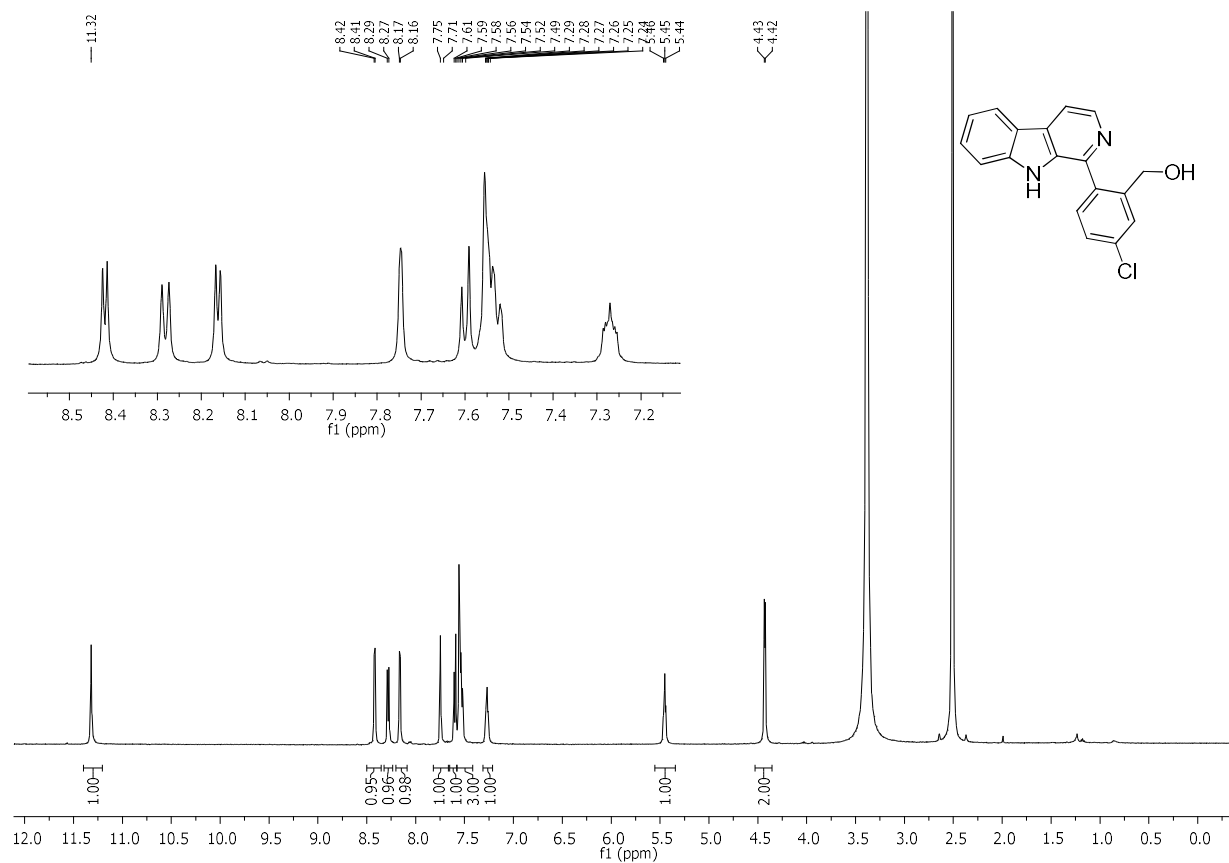
Compound 2f: ¹³C NMR (125 MHz, CDCl₃+DMSO-*d*₆)

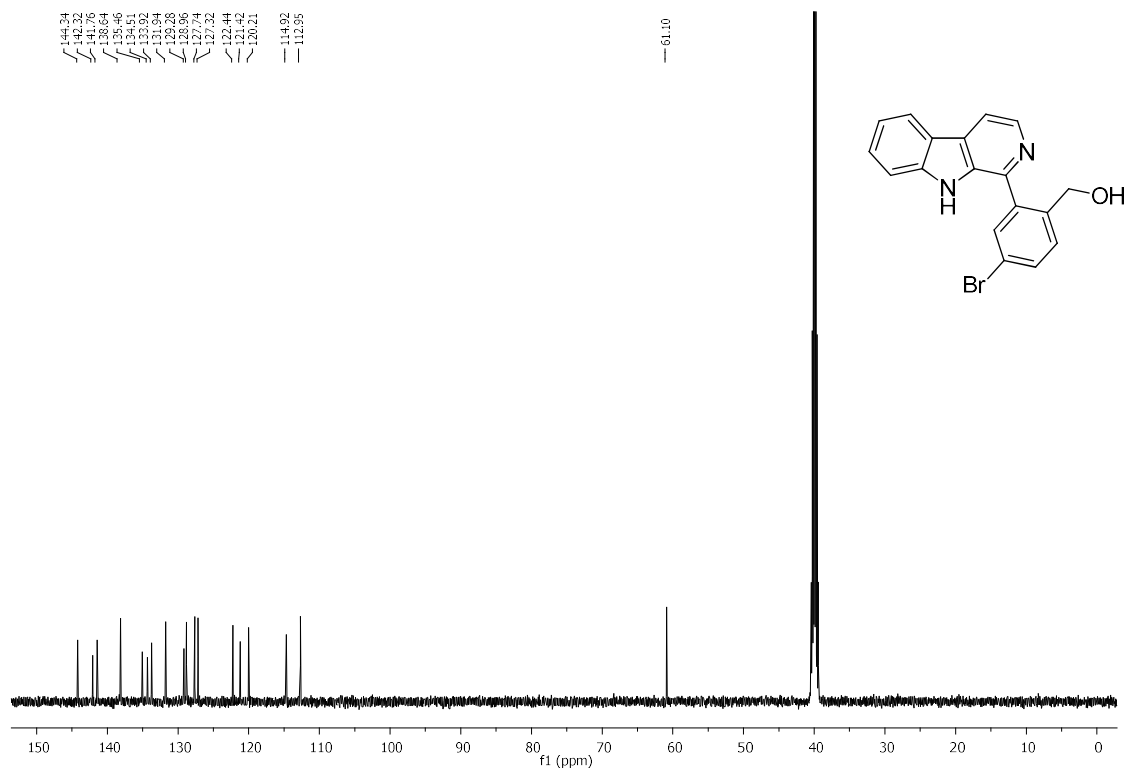
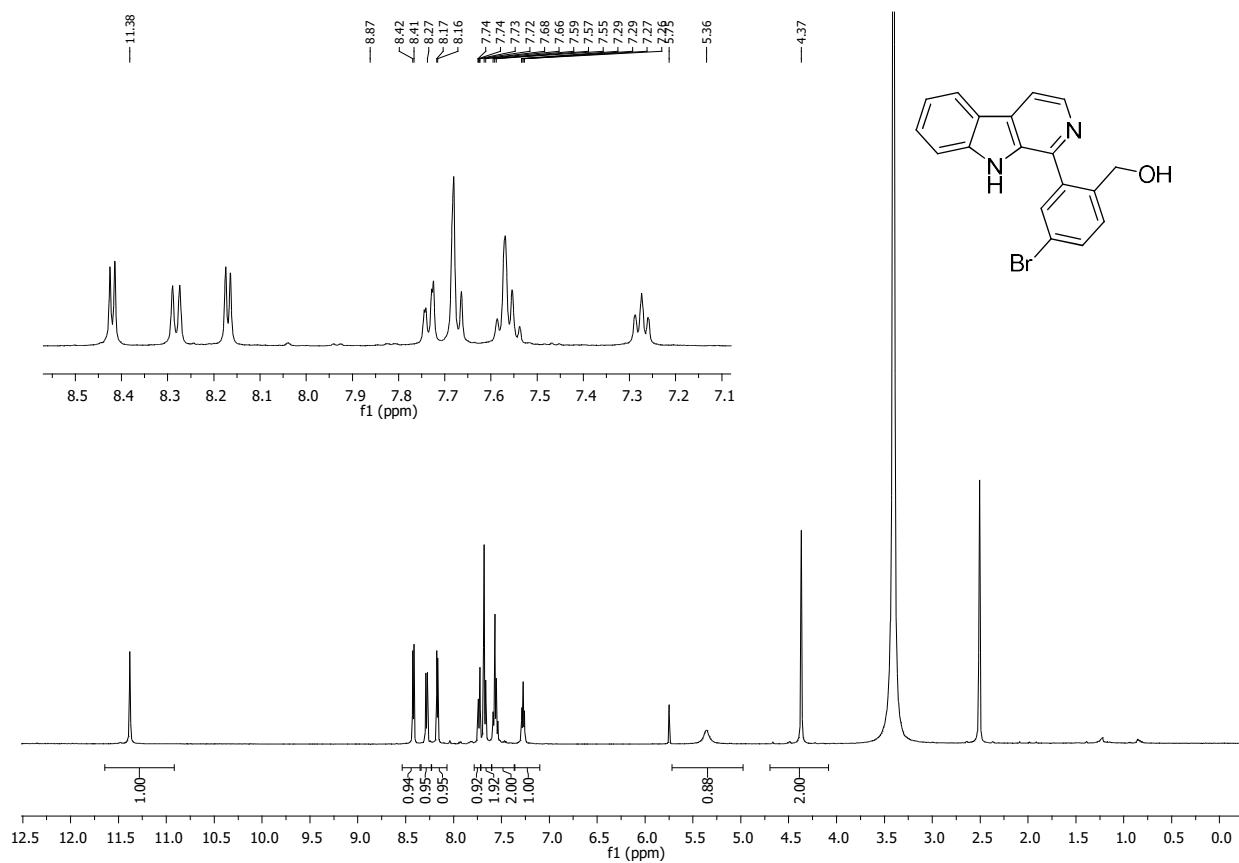


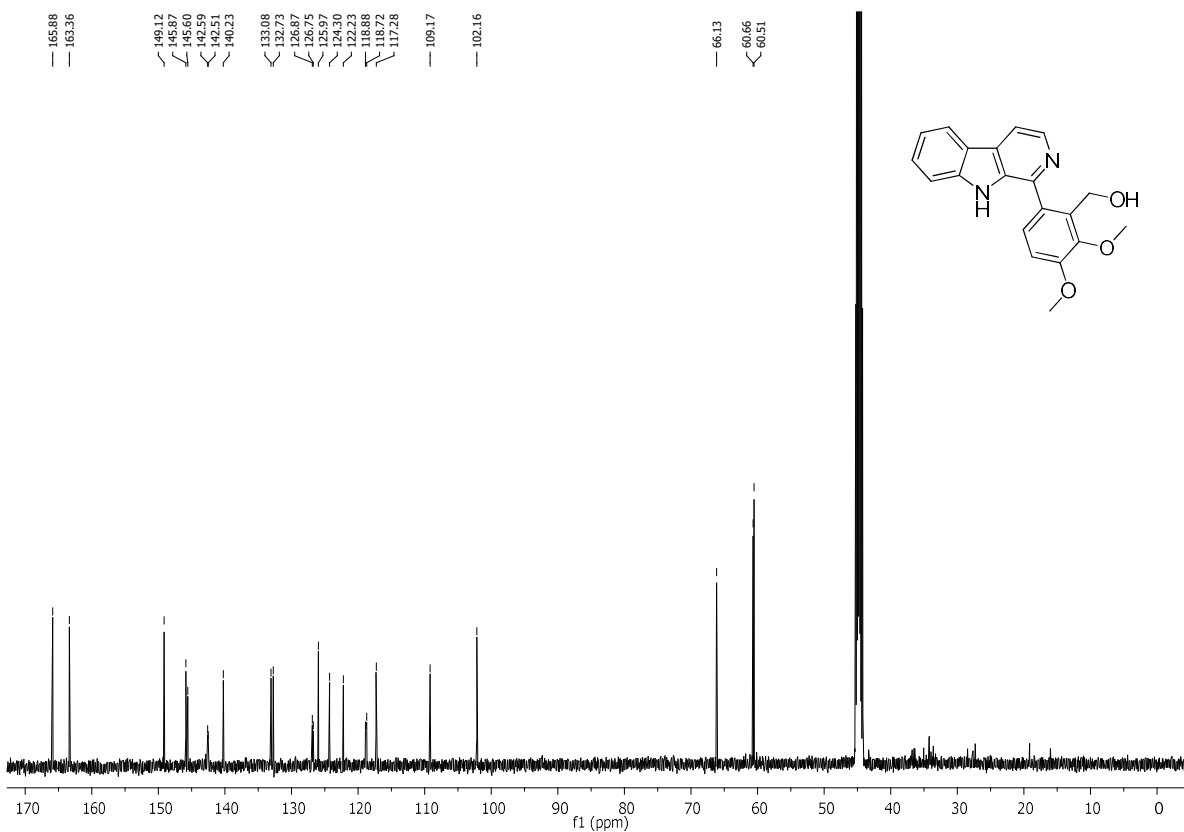
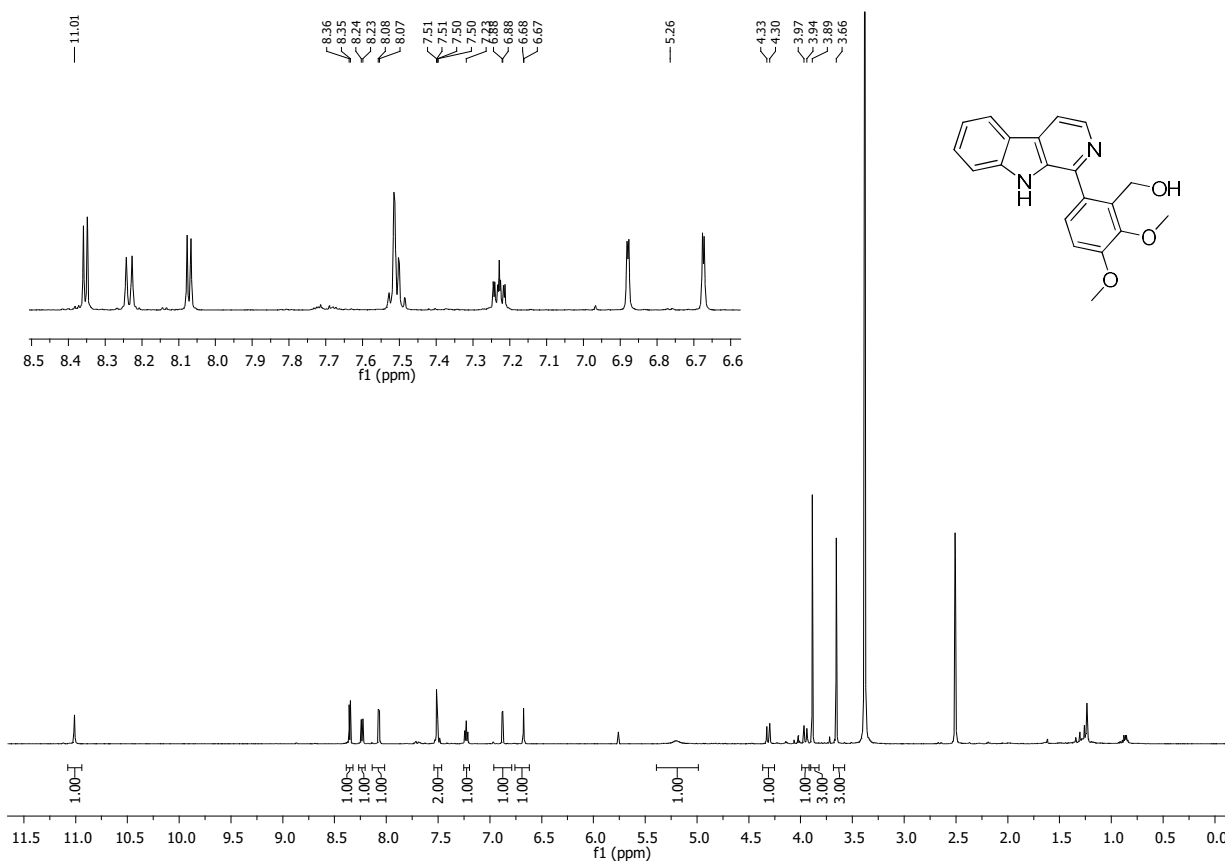
Compound **2g**: ^1H NMR (500 MHz, $\text{DMSO}-d_6$)

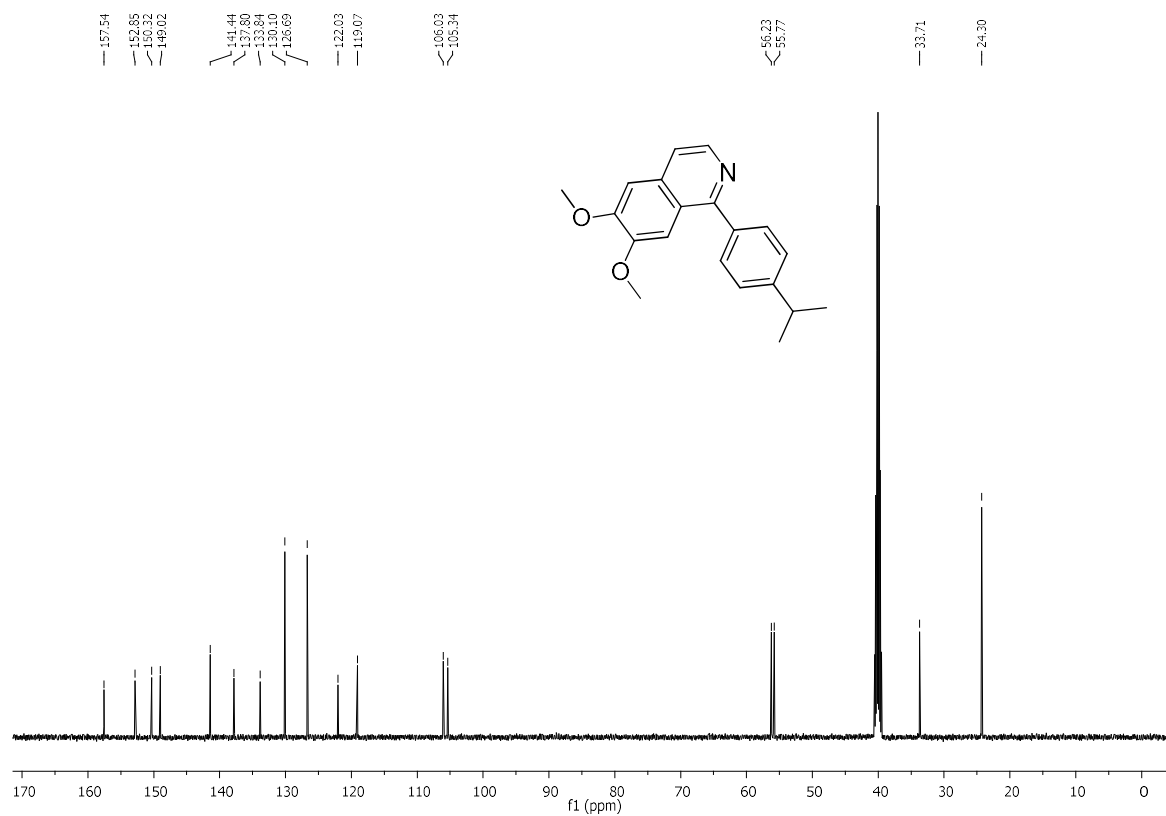
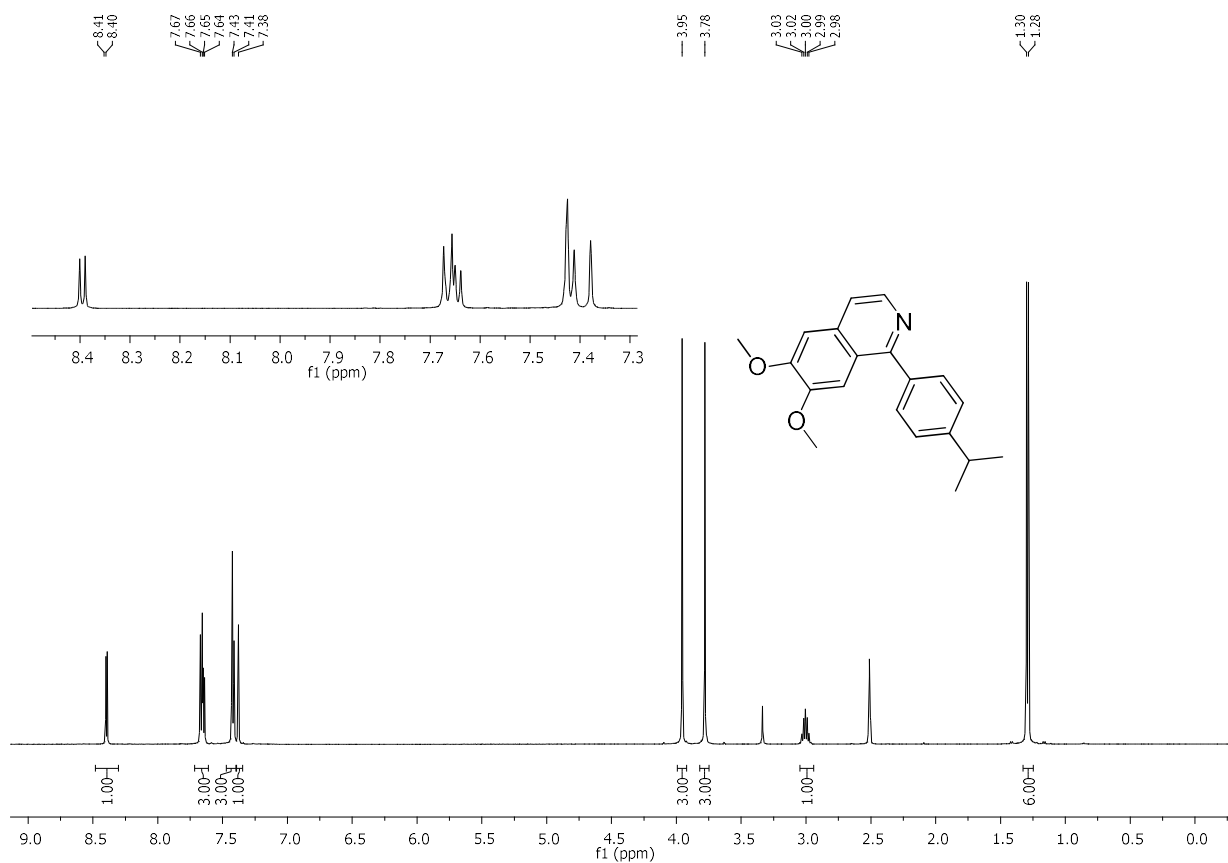


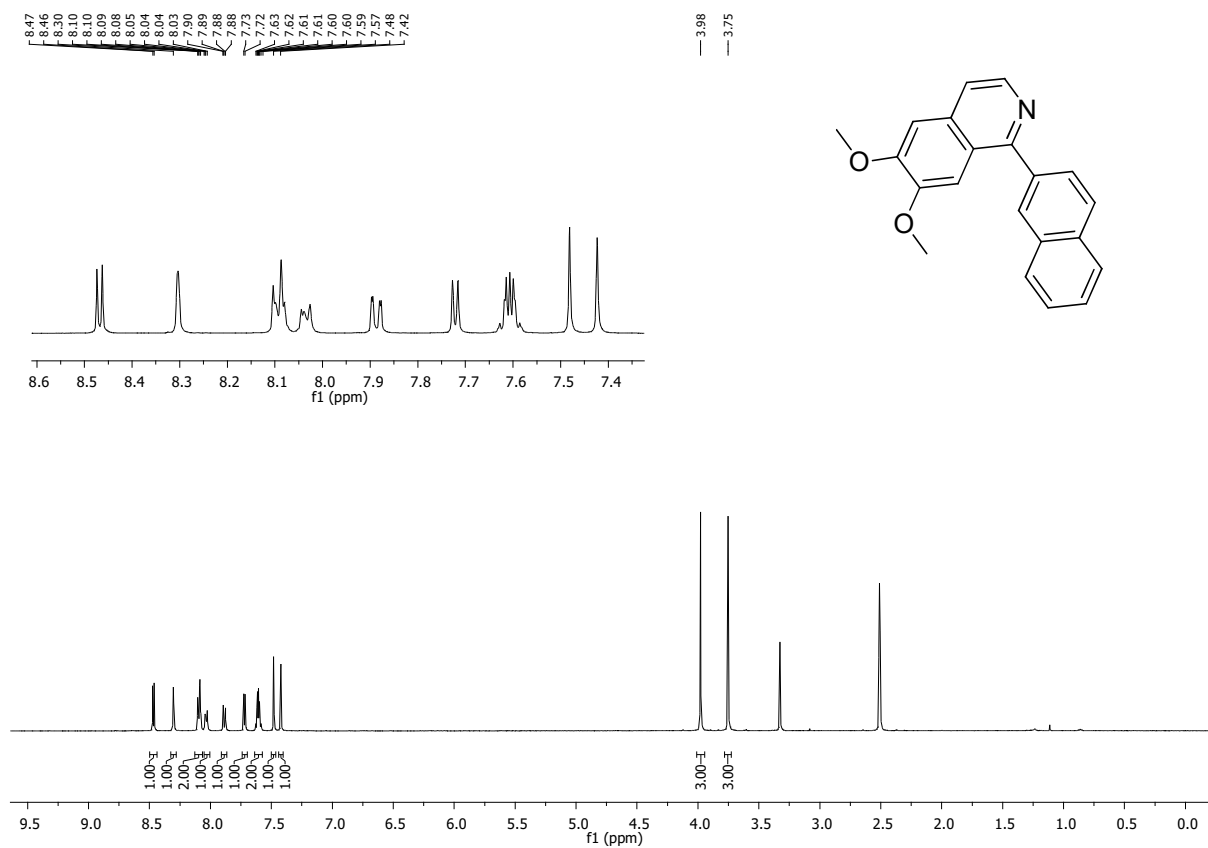
Compound **2g**: ^{13}C NMR (125 MHz, $\text{DMSO}-d_6$)



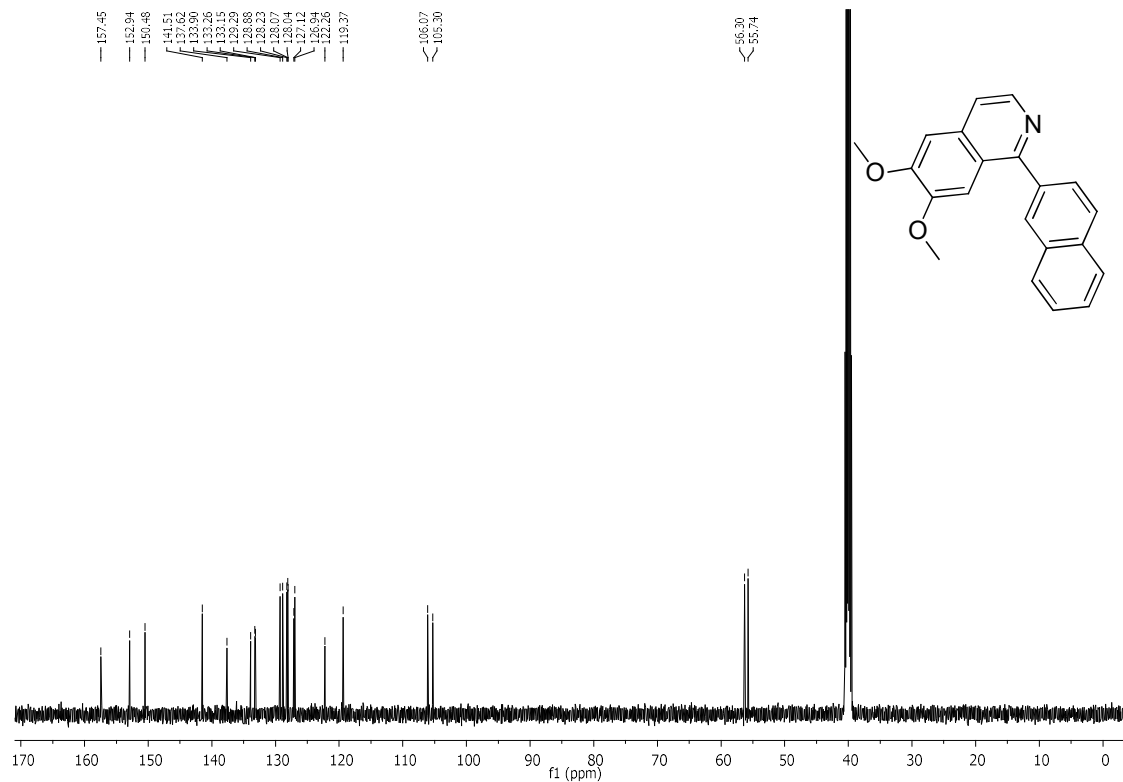




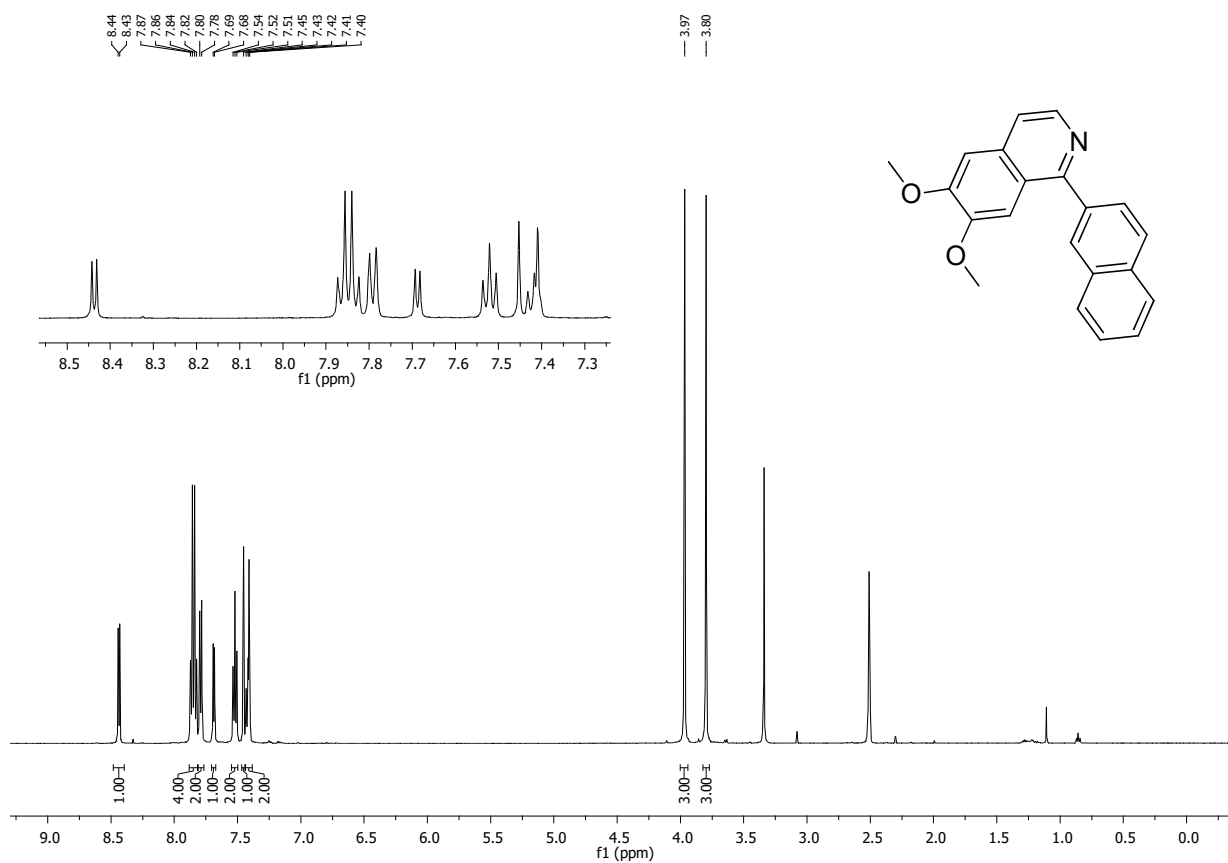




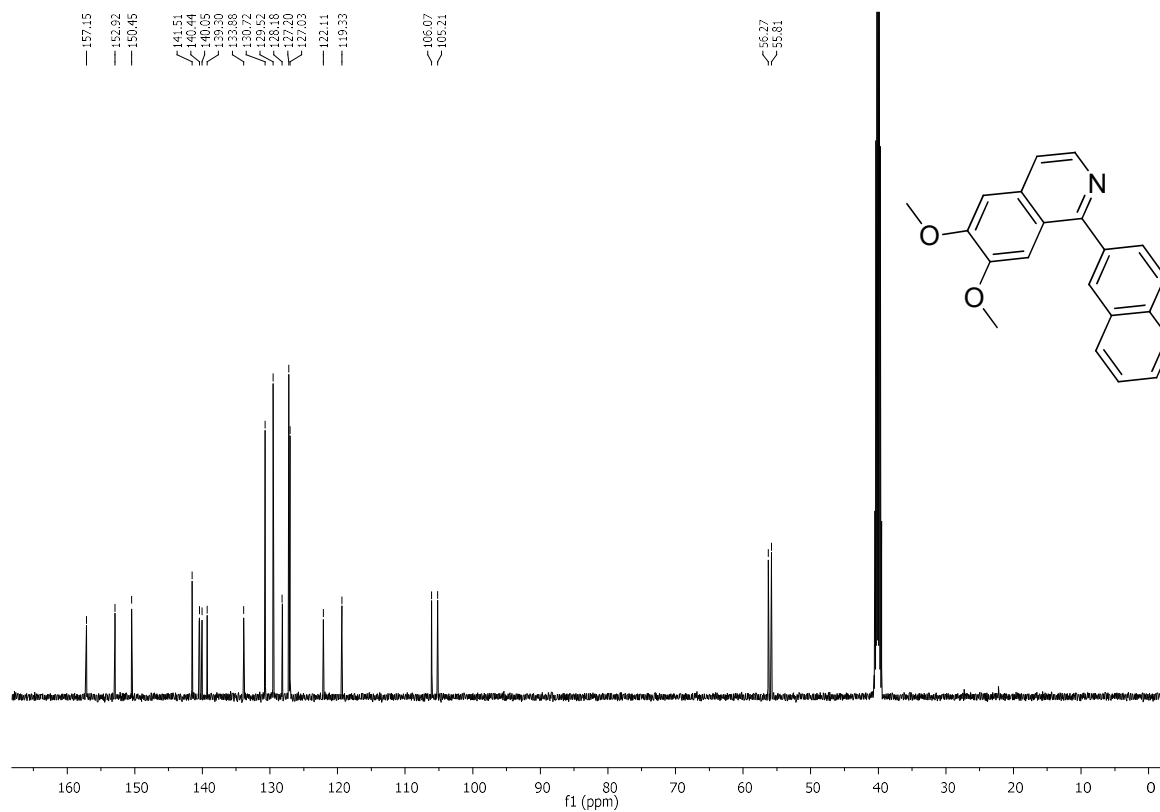
Compound 3e: ¹H NMR (500 MHz, DMSO-*d*₆)



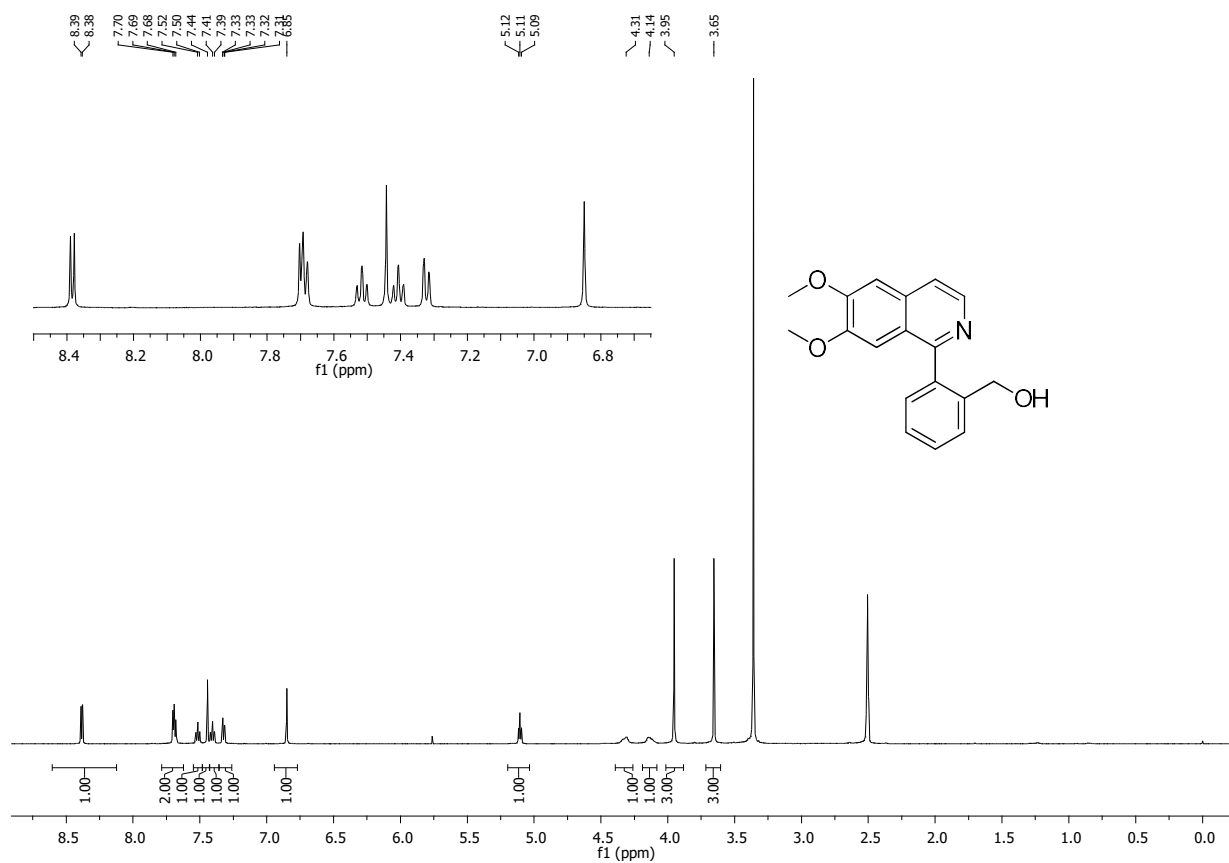
Compound 3e: ¹³C NMR (125 MHz, DMSO-*d*₆)



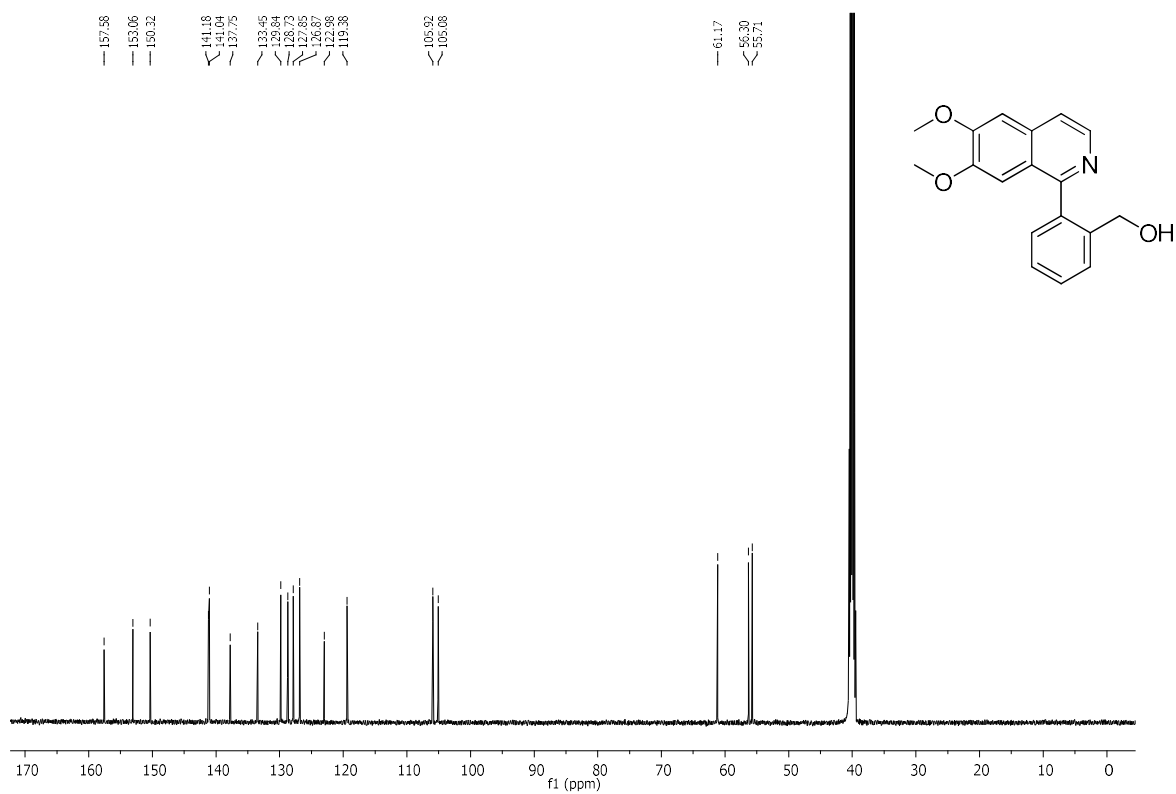
Compound **3f**: ¹H NMR (500 MHz, DMSO-*d*₆)



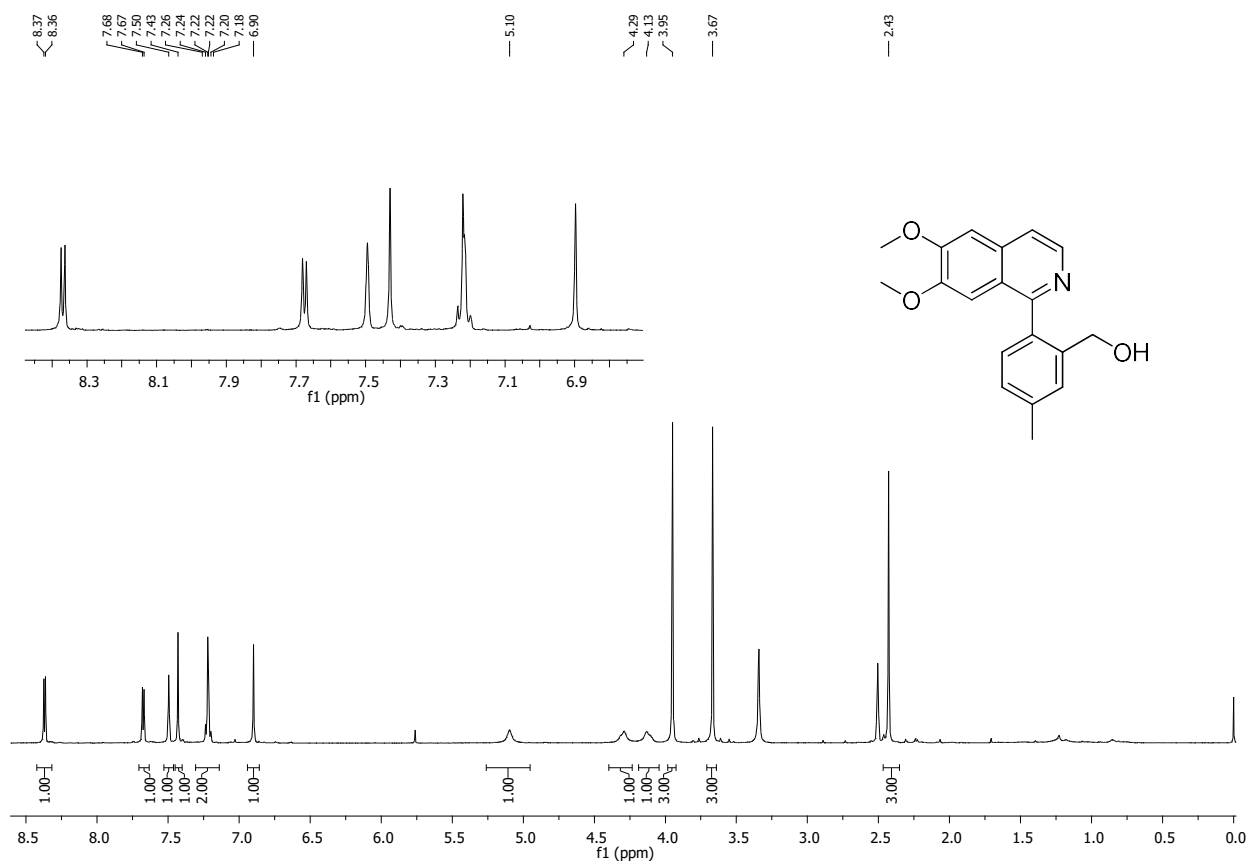
Compound **3f**: ¹³C NMR (125 MHz, DMSO-*d*₆)



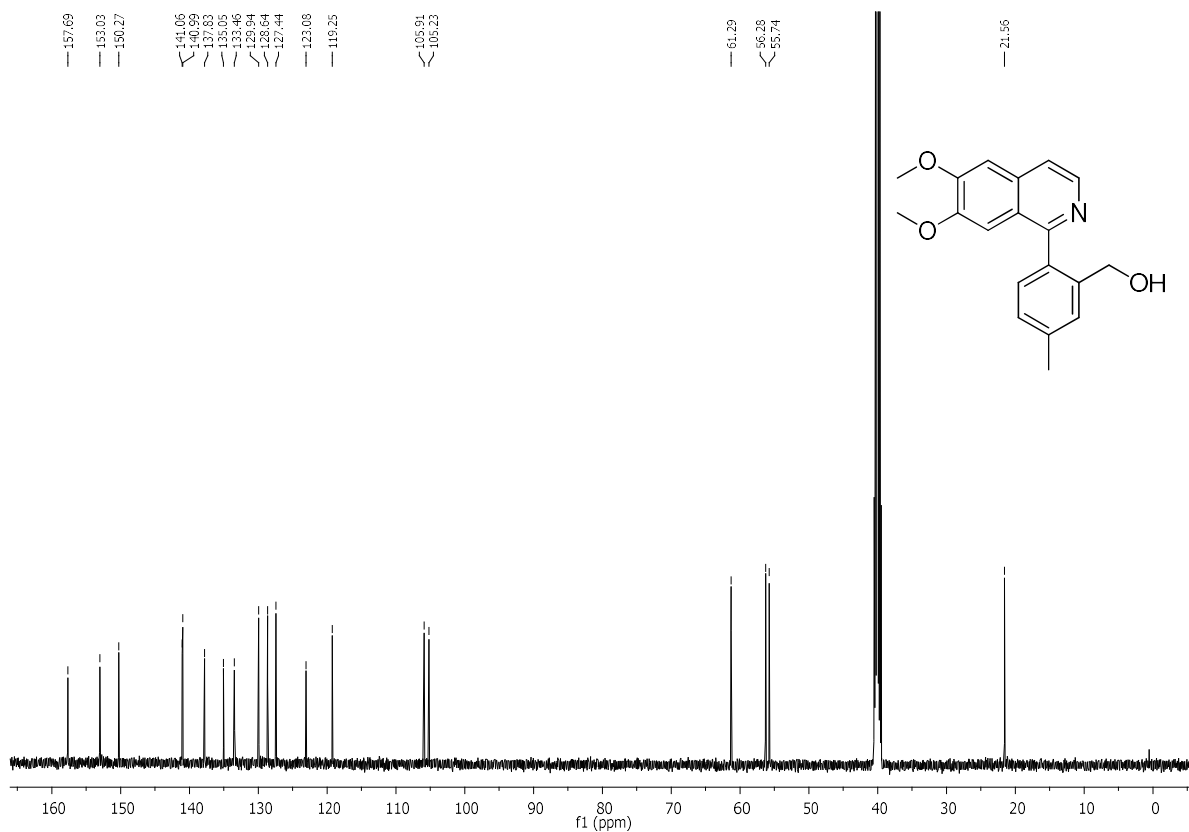
Compound **4a**: ¹H NMR (500 MHz, DMSO-*d*₆)



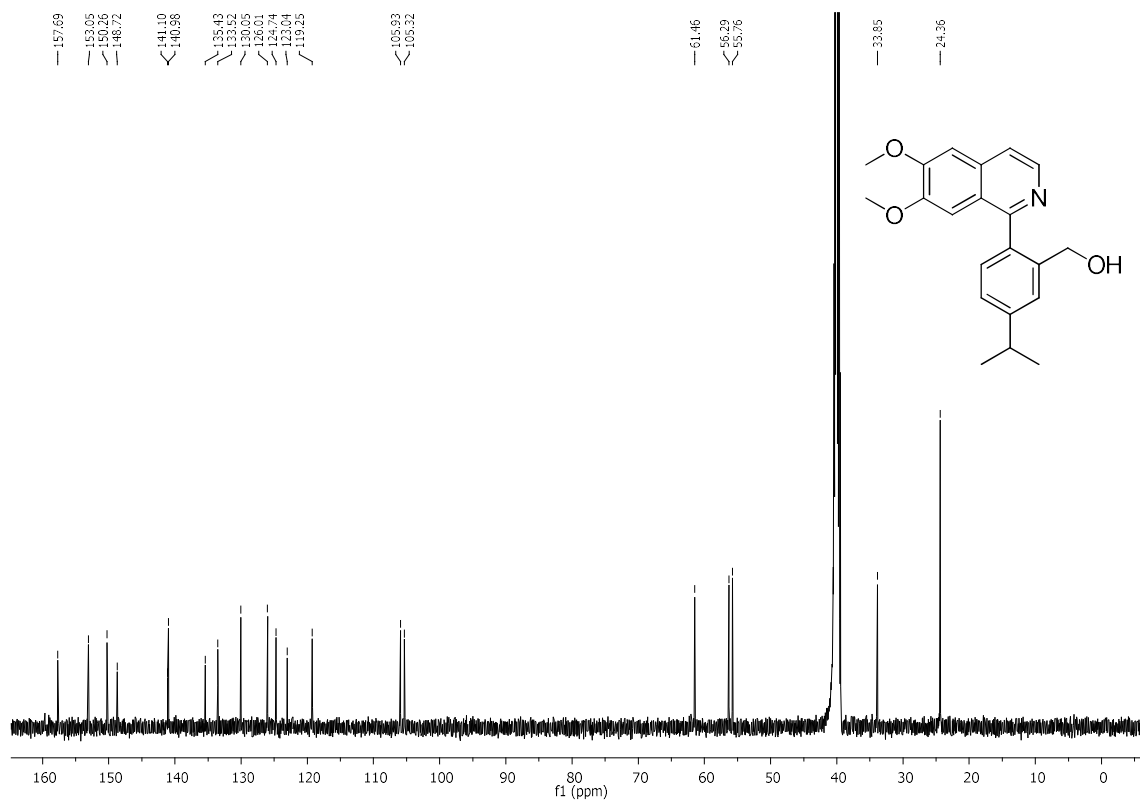
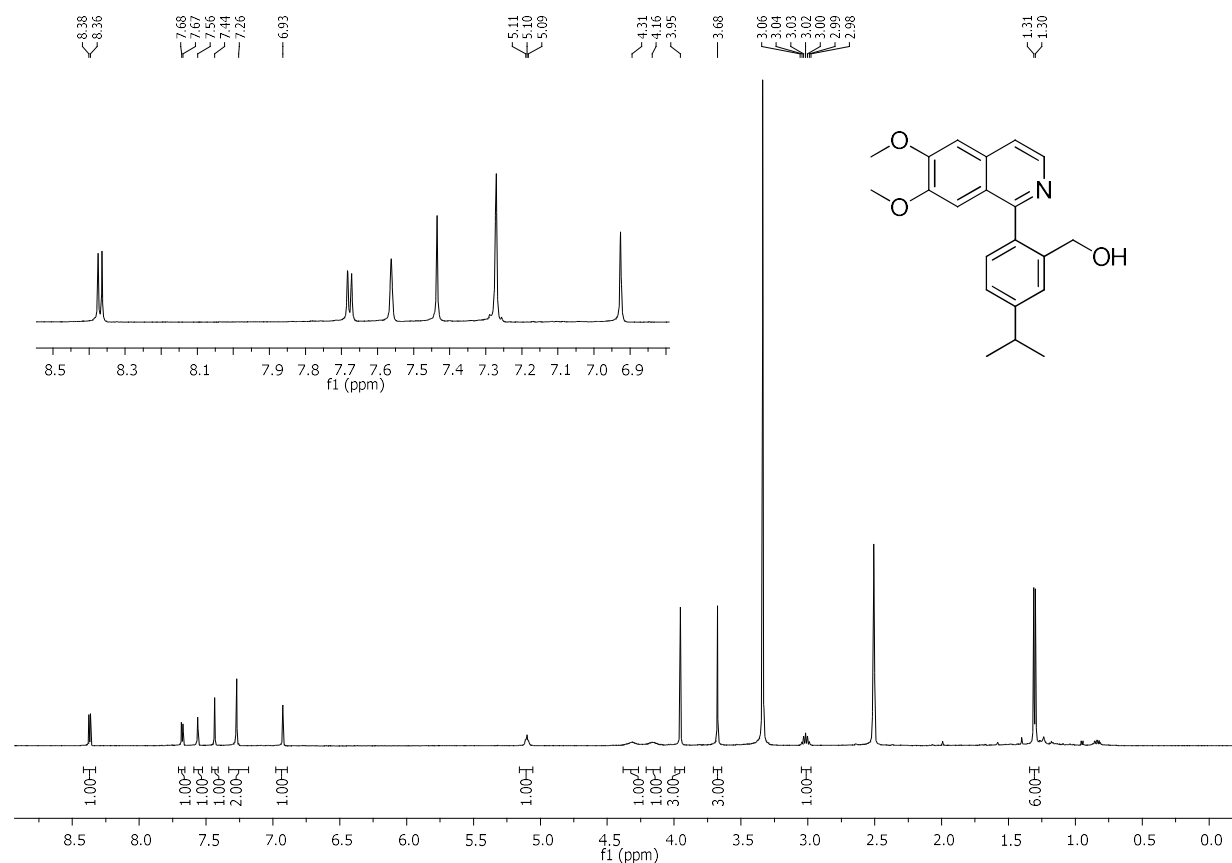
Compound **4a**: ¹³C NMR (125 MHz, DMSO-*d*₆)

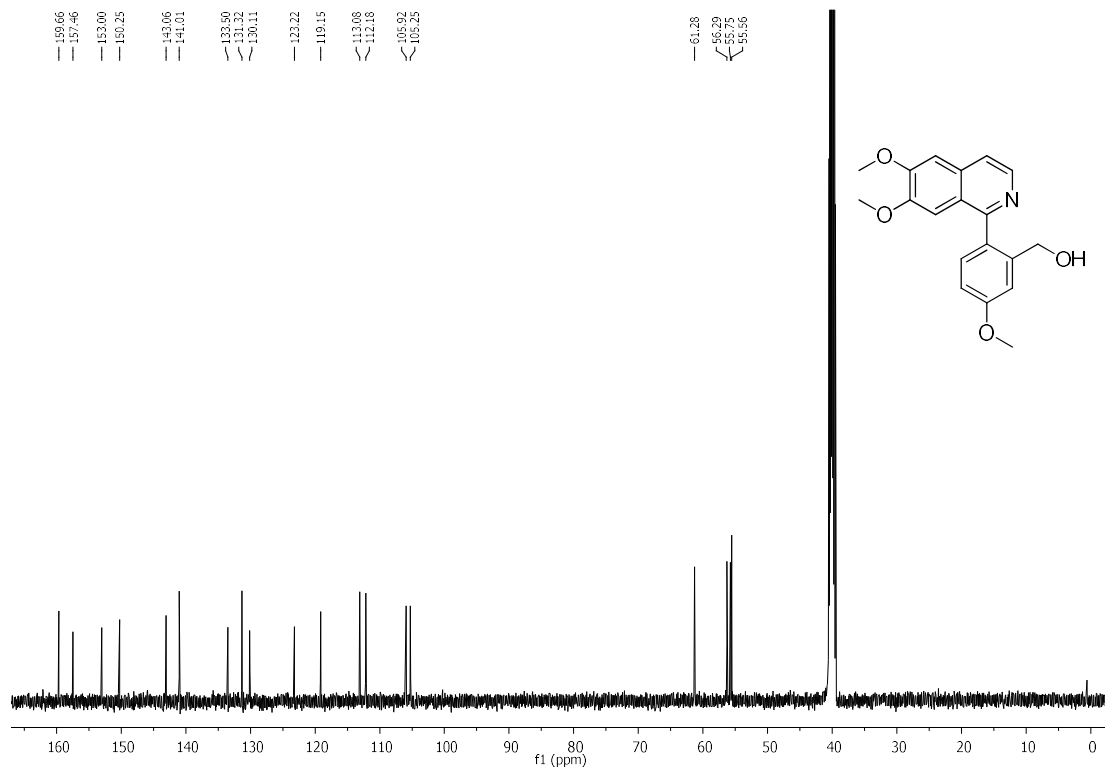
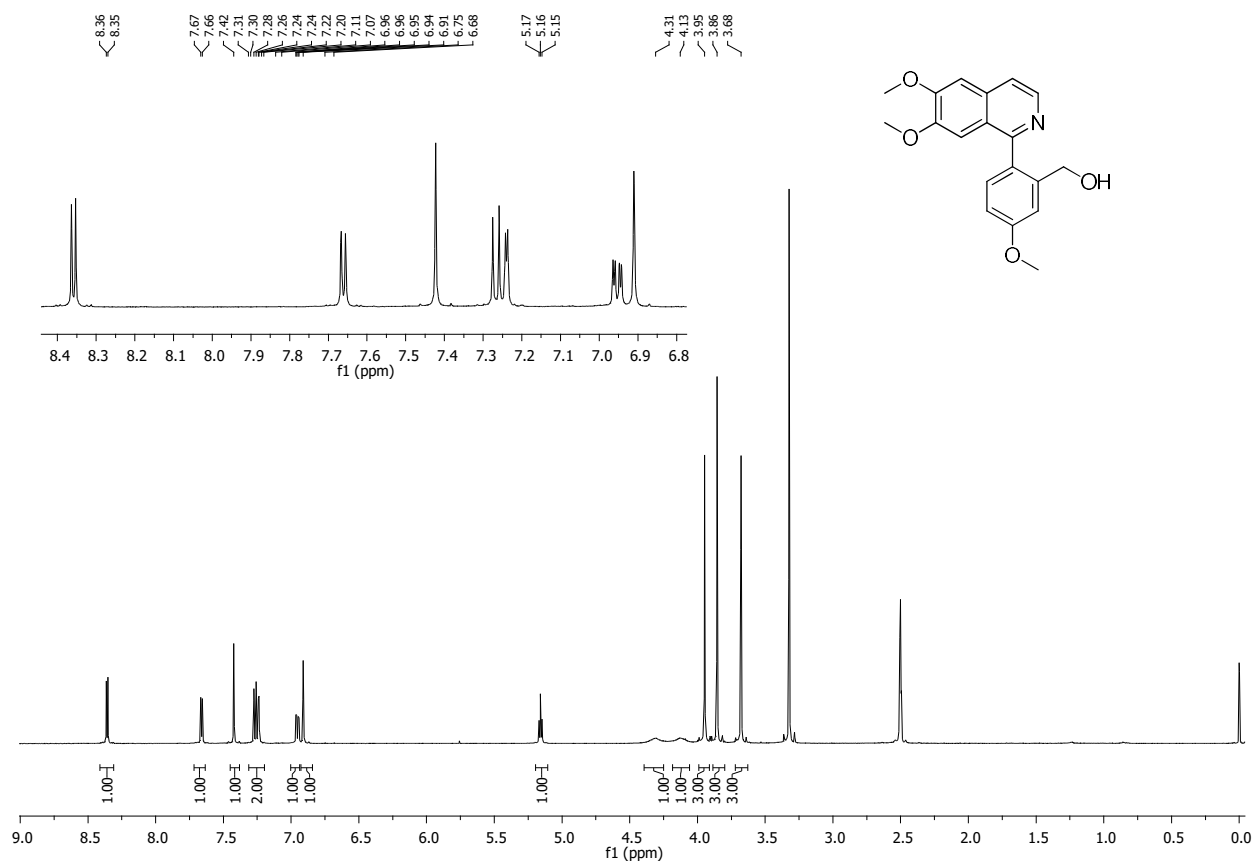


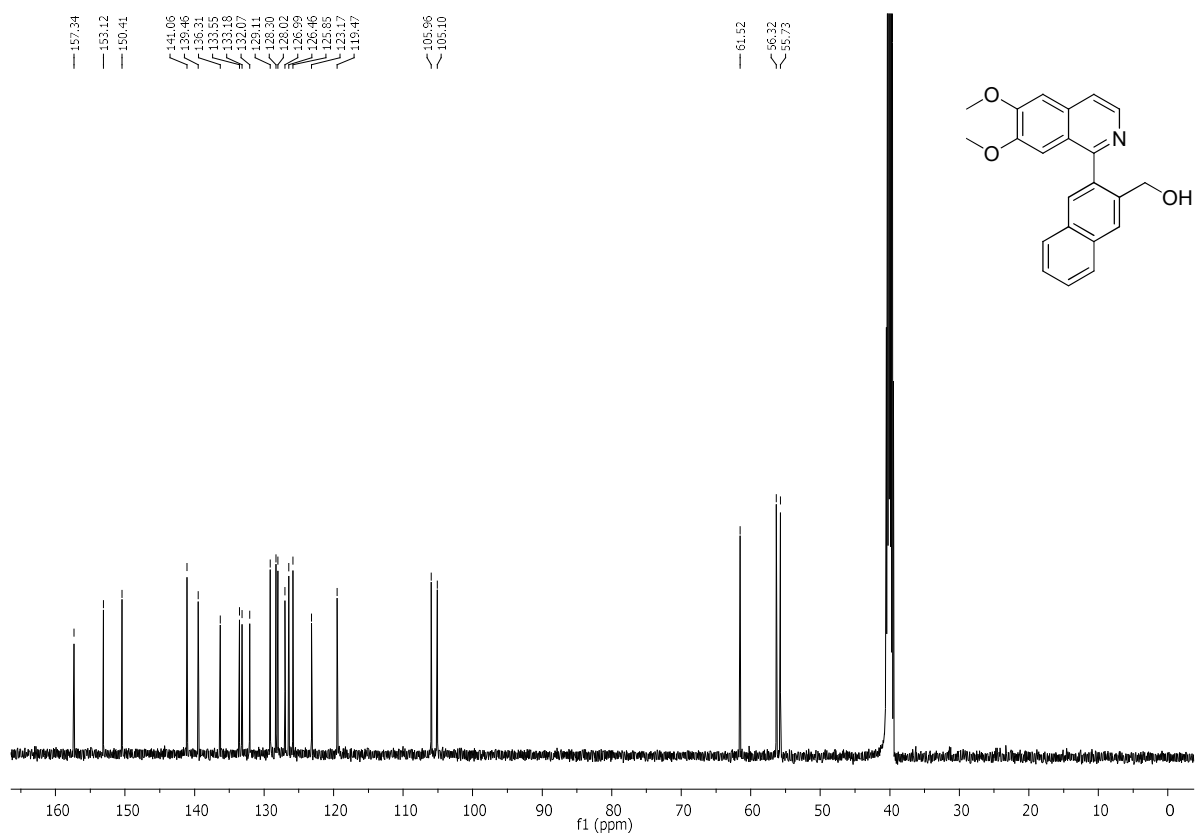
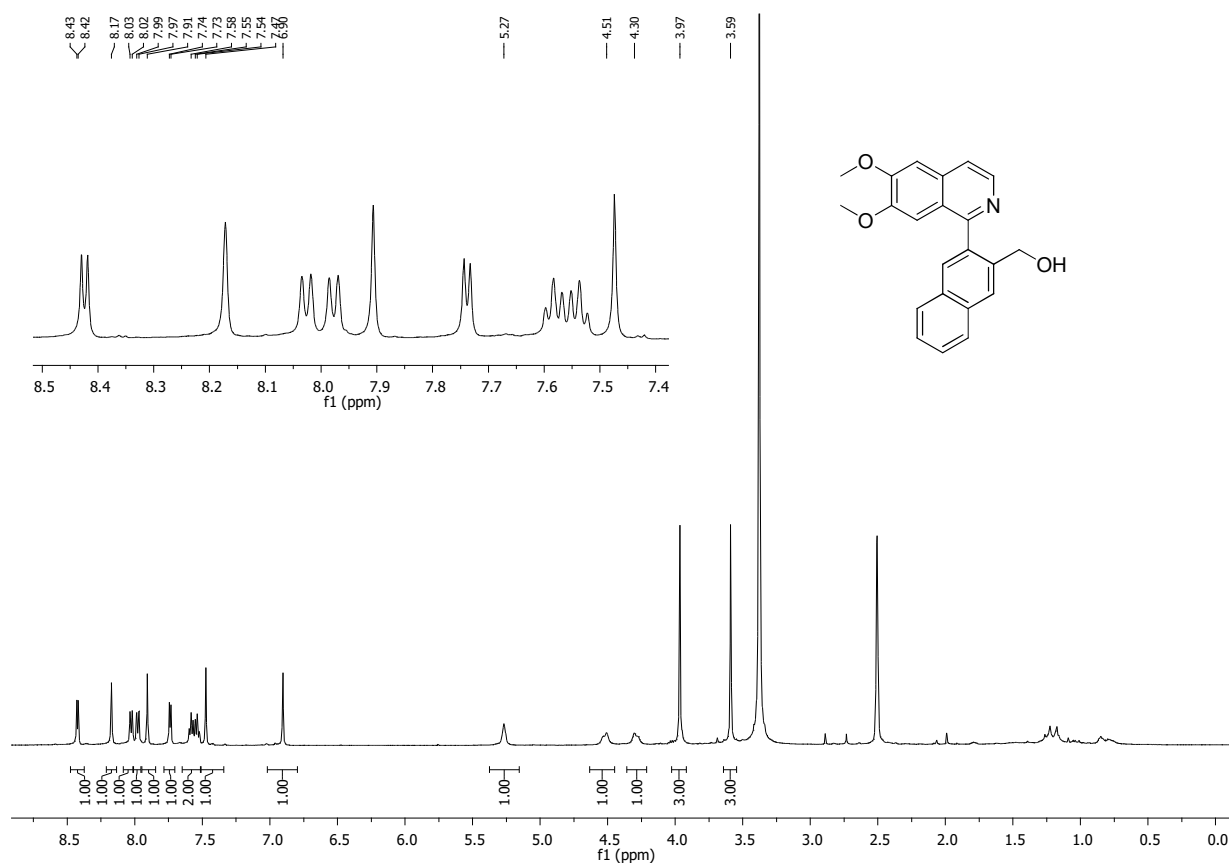
Compound **4b**: ¹H NMR (500 MHz, DMSO-*d*₆)

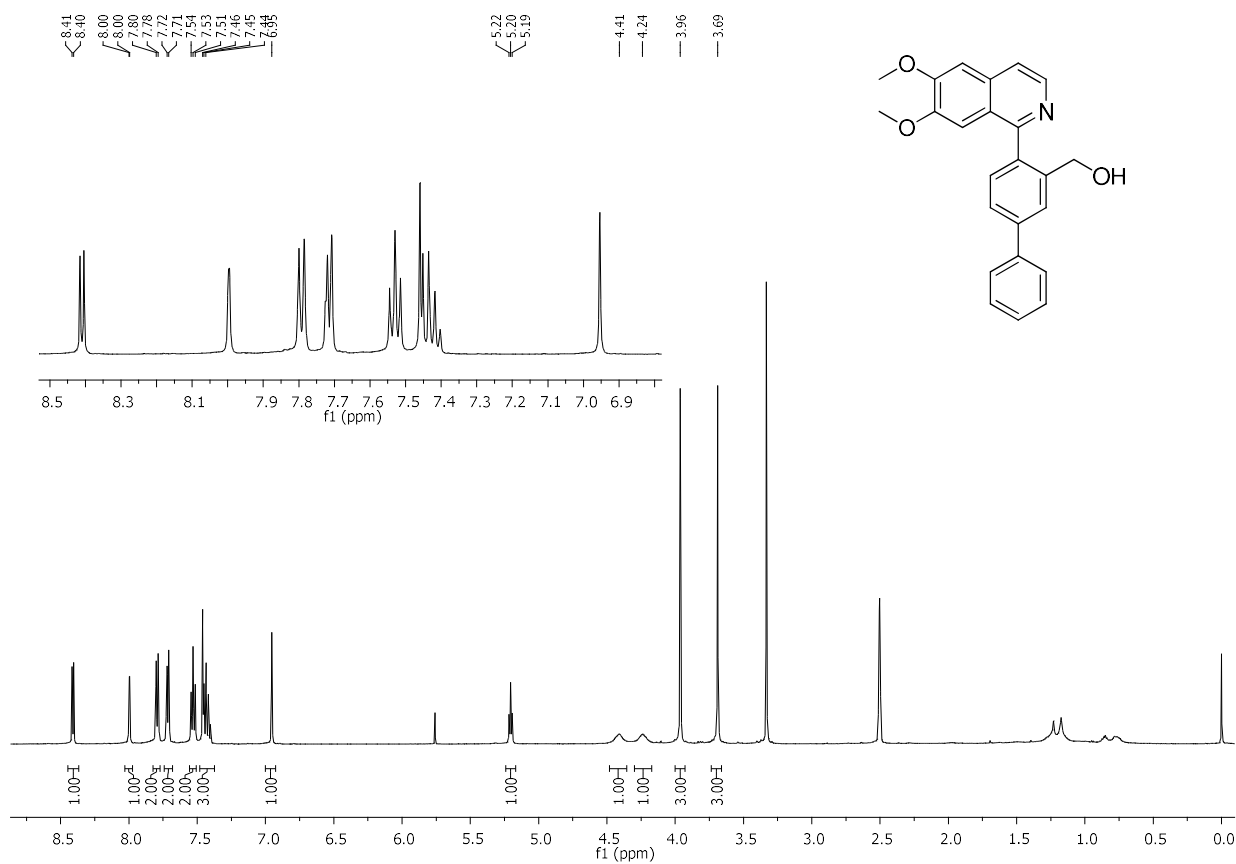


Compound **4b**: ¹³C NMR (125 MHz, DMSO-*d*₆)

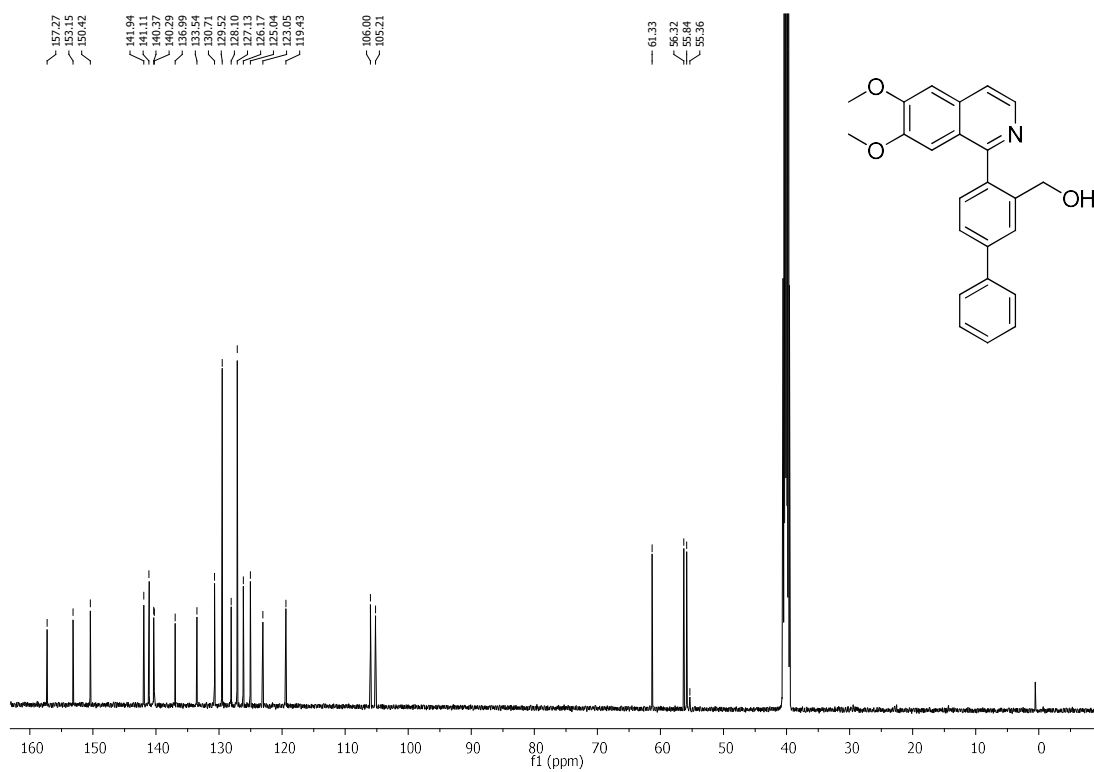








Compound **4f**: ^1H NMR (500 MHz, $\text{DMSO}-d_6$)



Compound **4f**: ^{13}C NMR (125 MHz, $\text{DMSO}-d_6$)