

Supporting Information

Regioselective Ir(III)-catalyzed C-H alkynylation directed by 7-azaindoles

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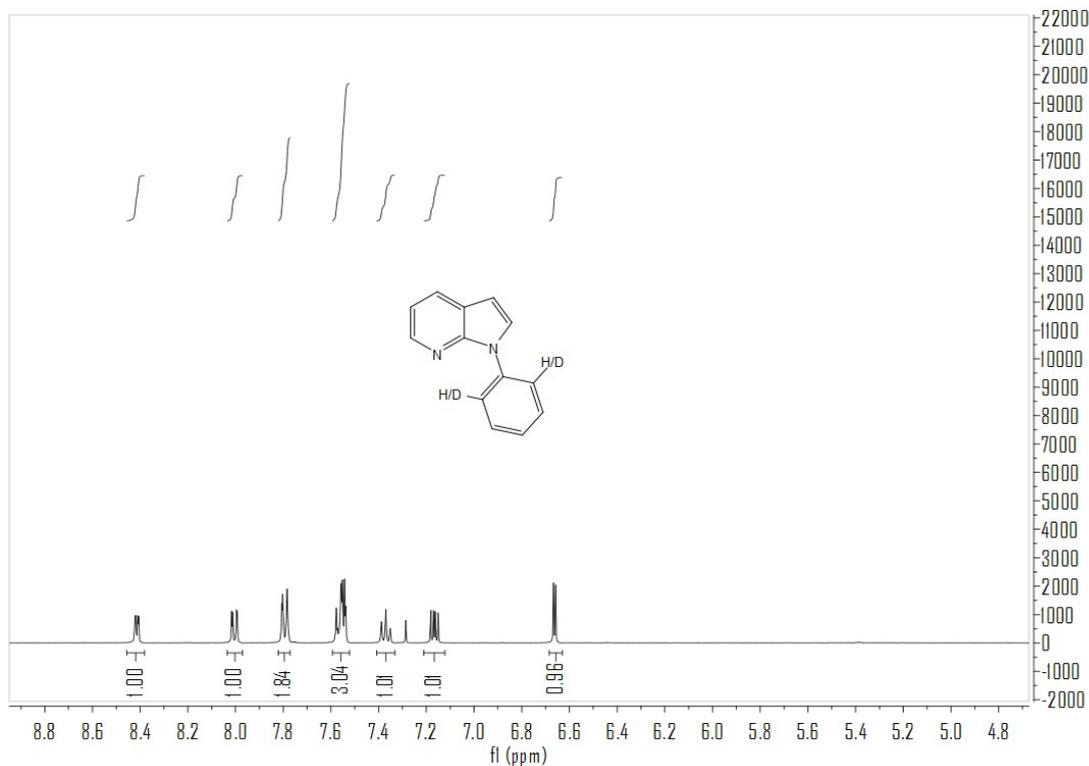
*E-mail: lirt@bjmu.edu.cn

Content

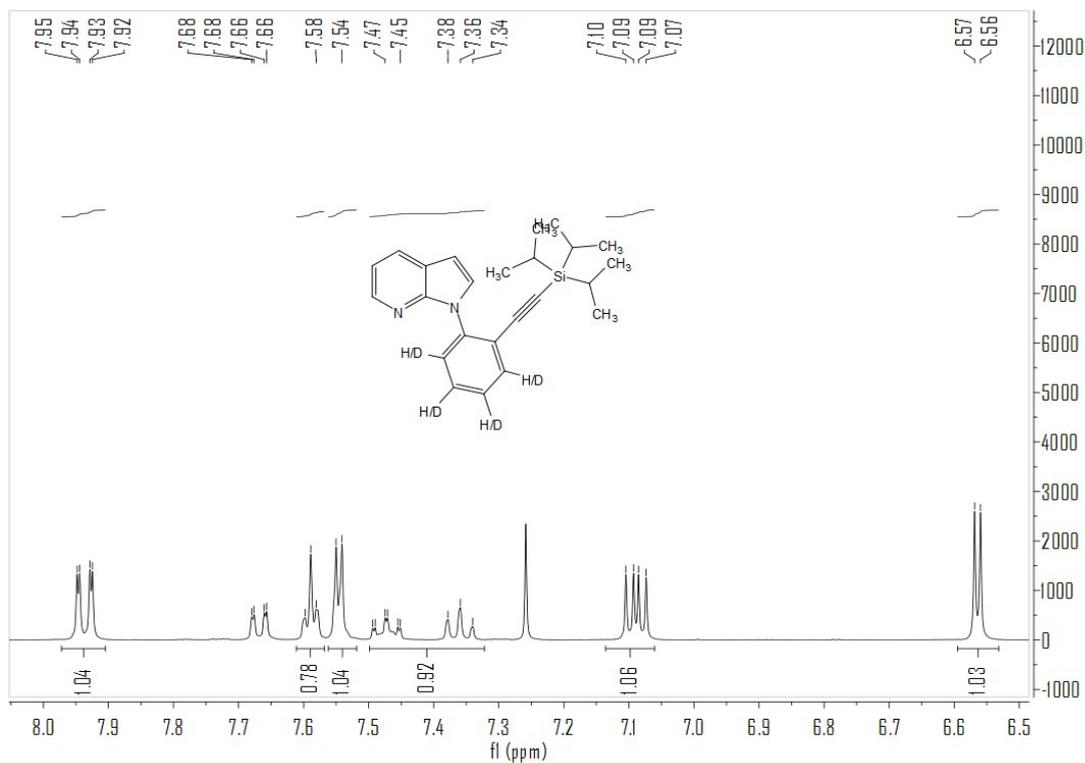
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Deuterium-Labeling Result and Kinetic Isotope Effect

H/D exchange [Ir] (III)

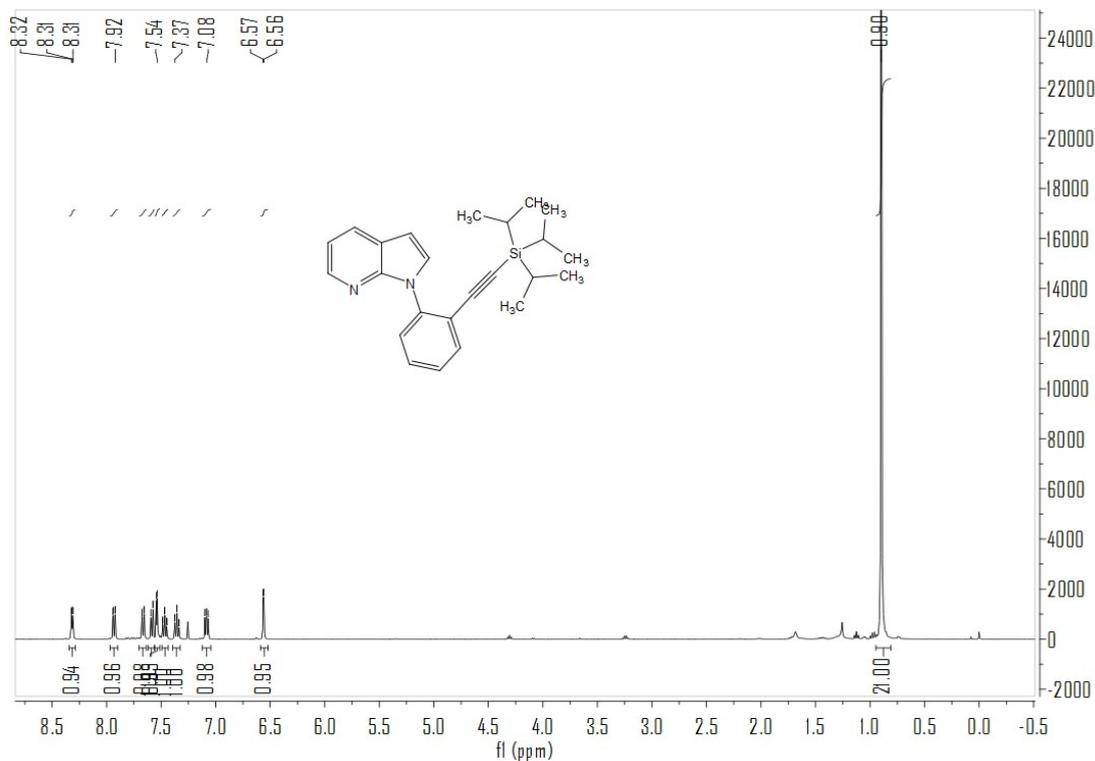


KIE experiments

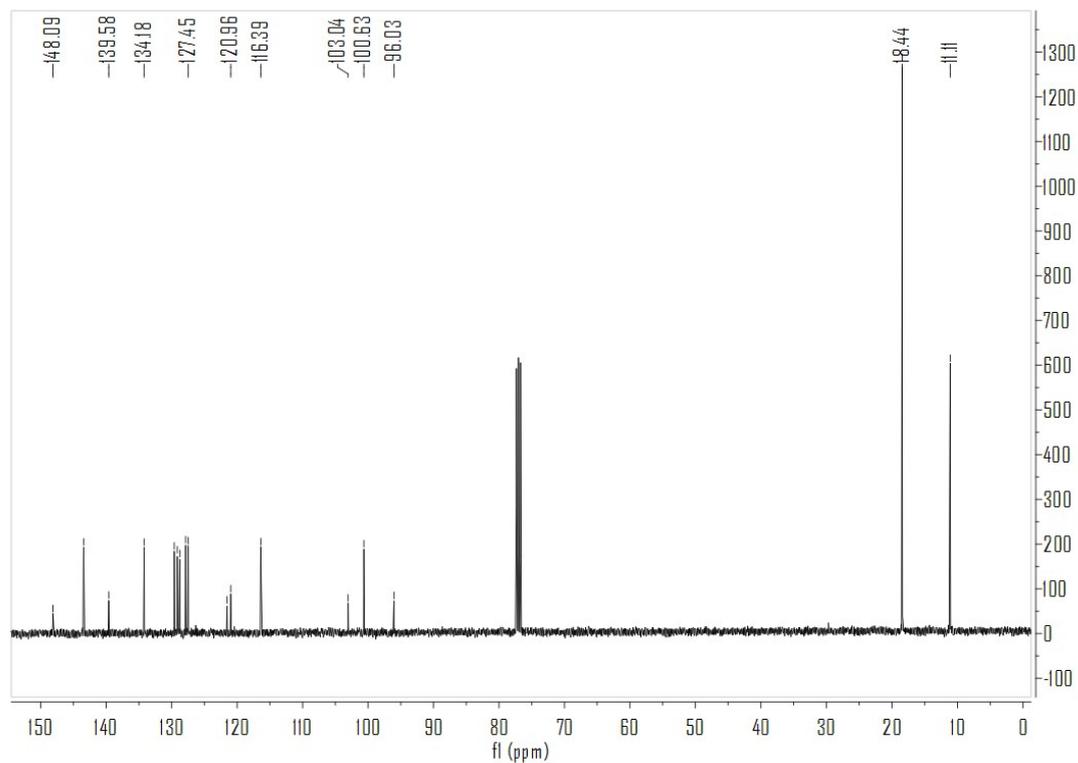


^1H NMR and ^{13}C NMR Spectra (CDCl_3 , ^1H 400 MHz, ^{13}C 100 MHz)

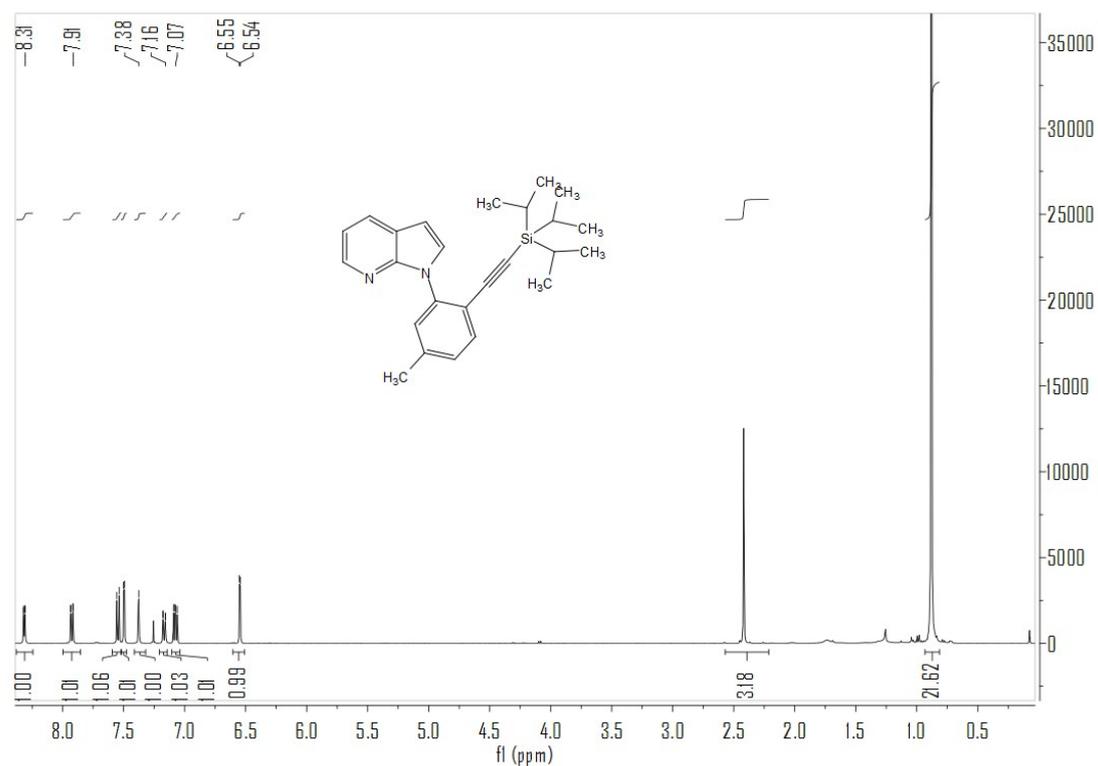
^1H NMR of 3a



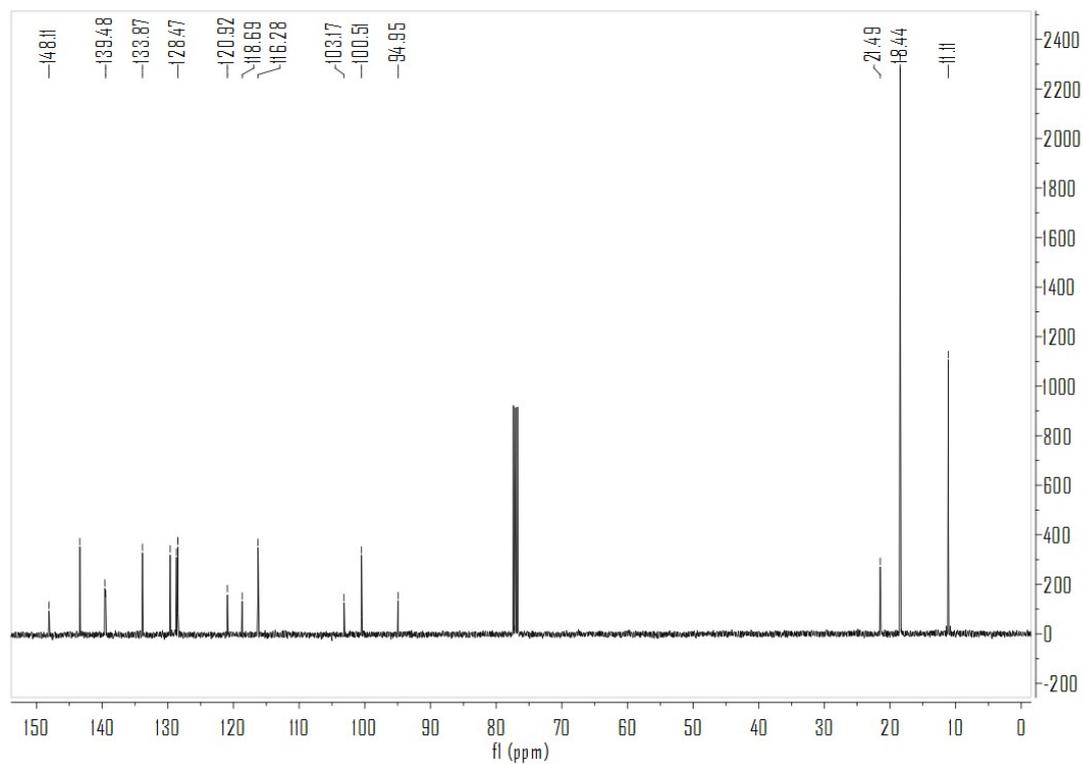
^{13}C NMR of 3a



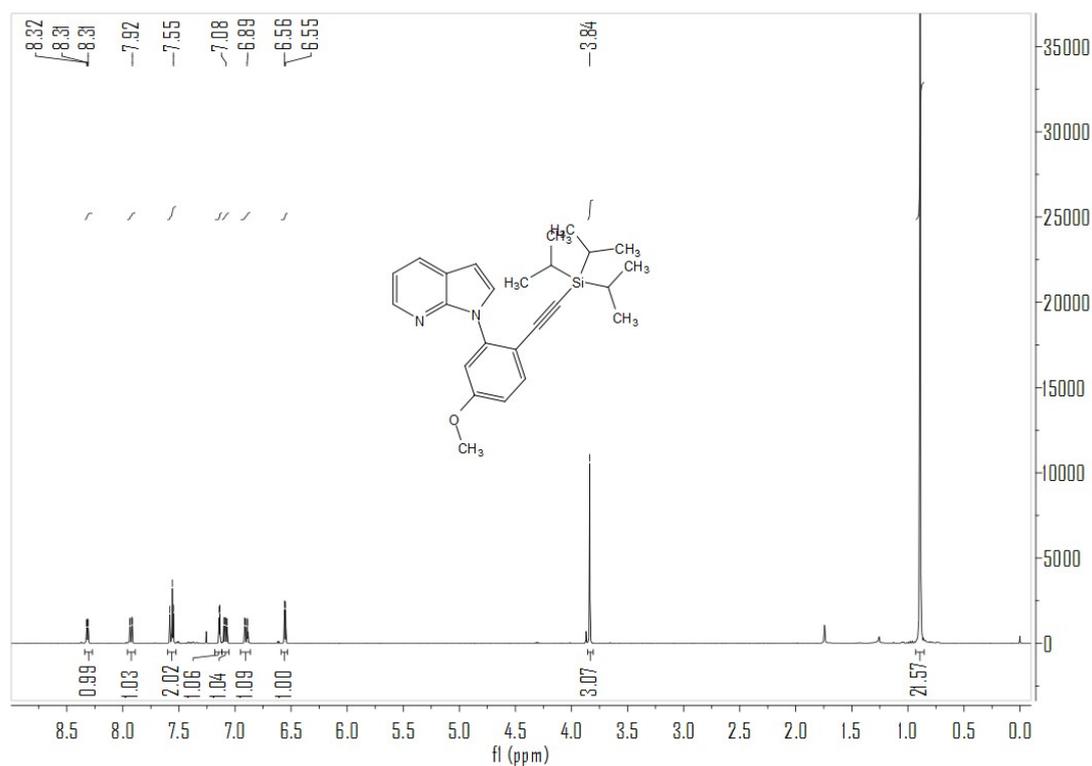
¹H NMR of 3b



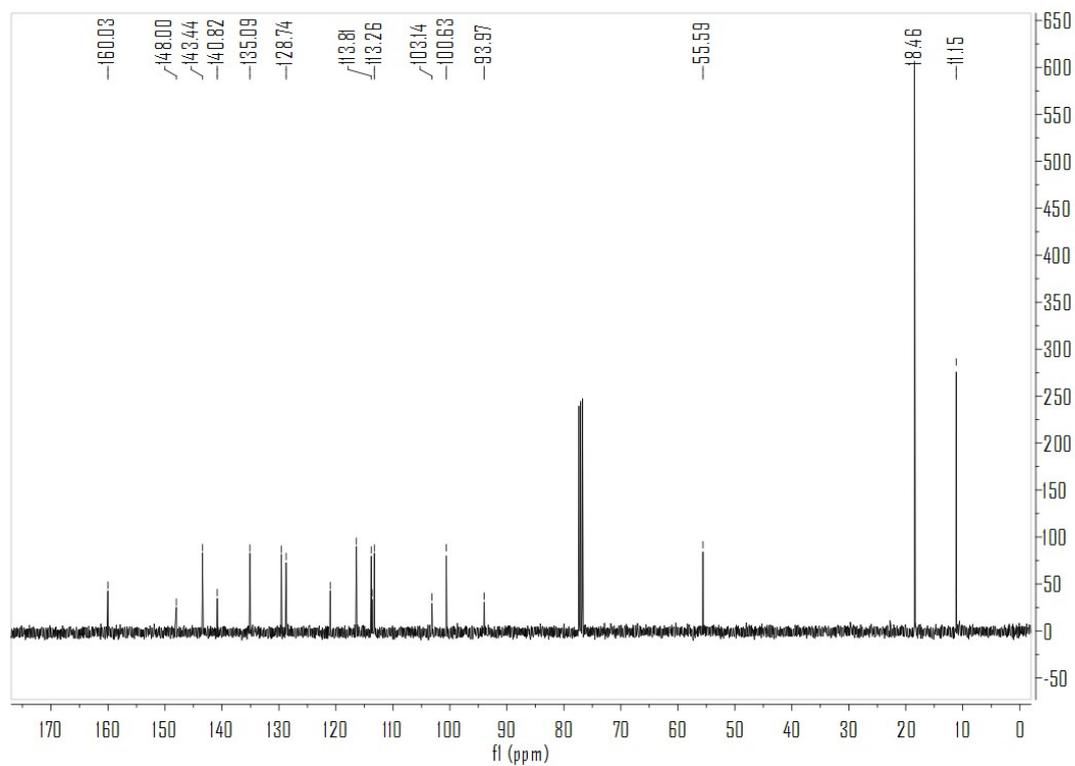
¹³C NMR of 3b



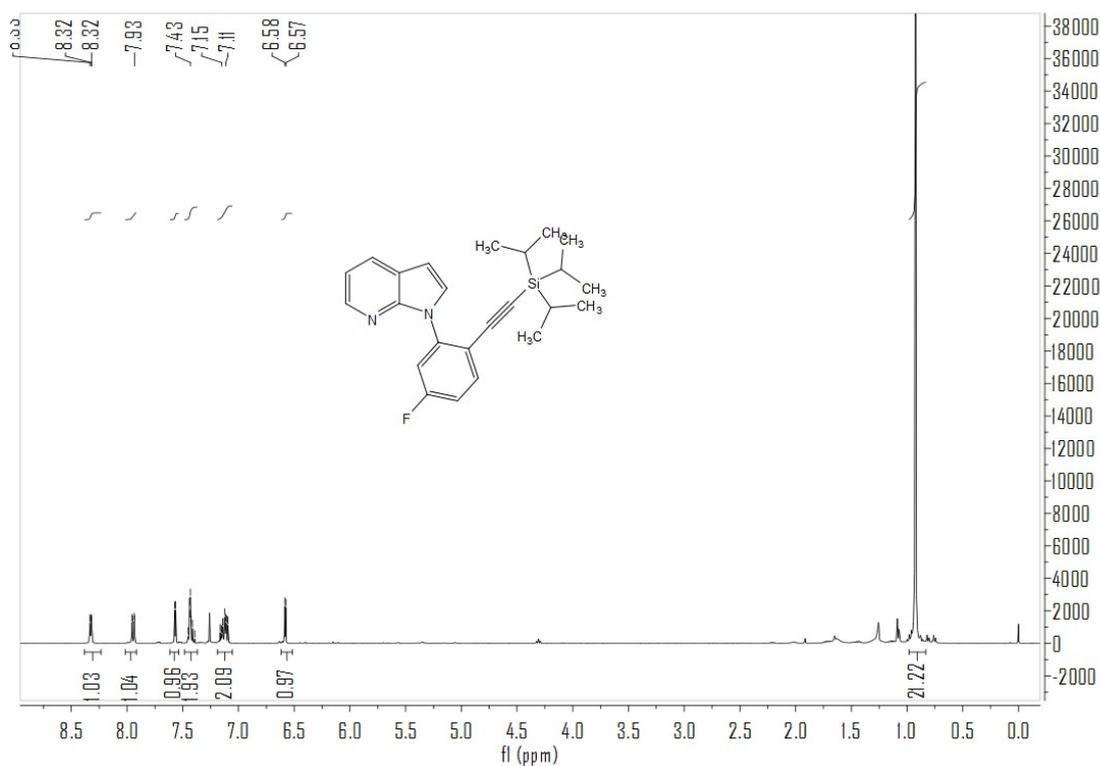
¹H NMR of 3c



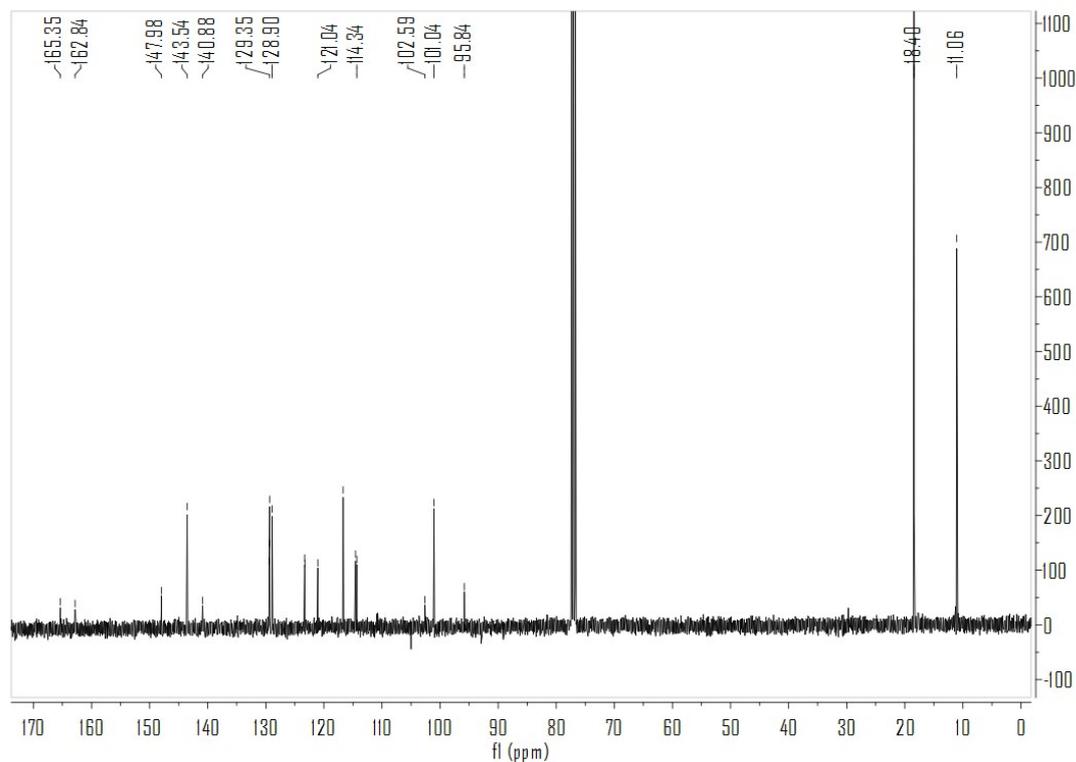
¹³C NMR of 3c



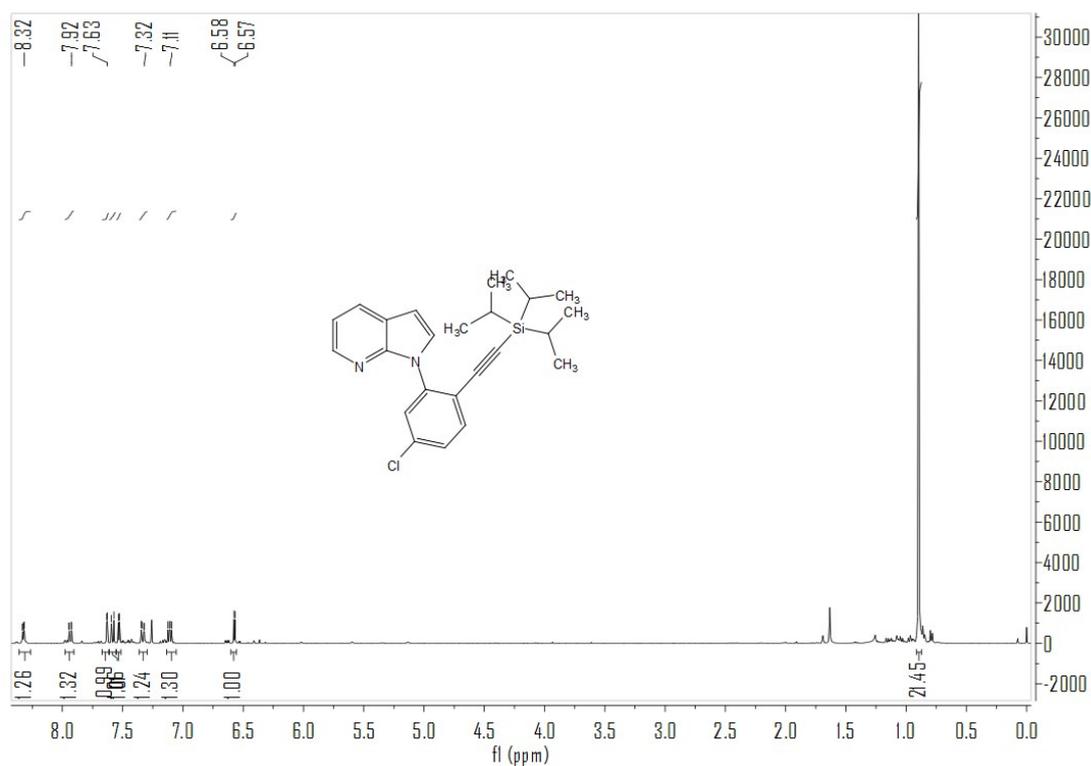
¹H NMR of 3d



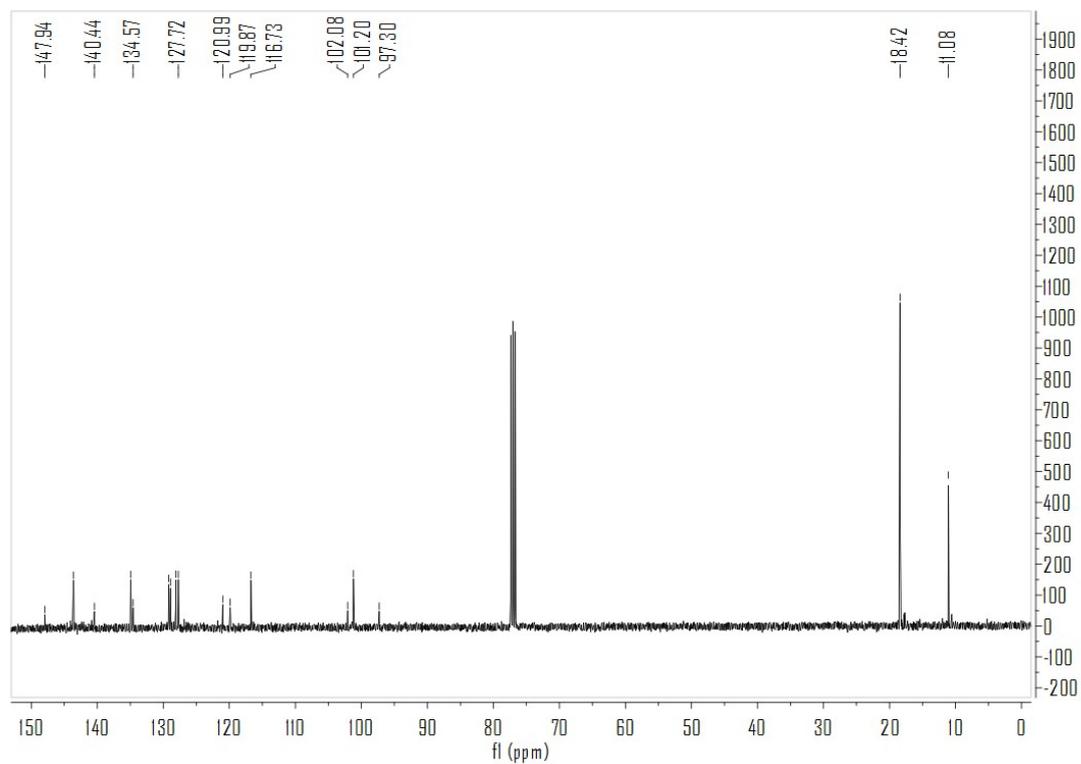
¹³C NMR of 3d



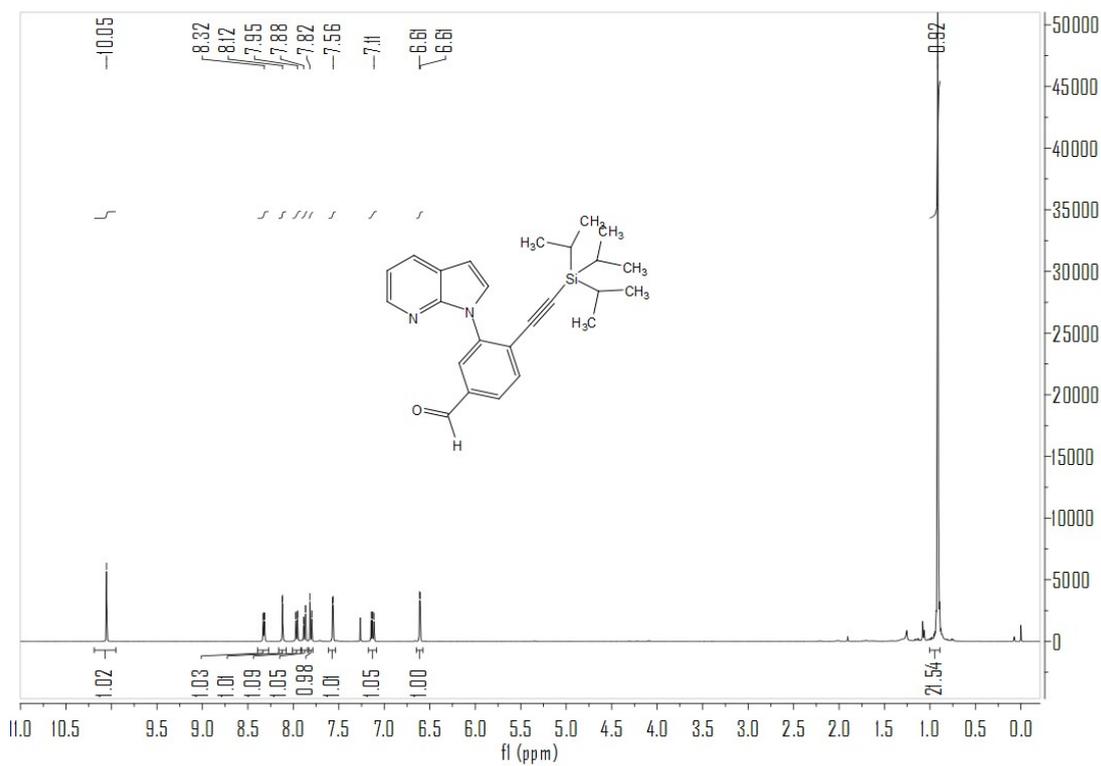
¹H NMR of 3e



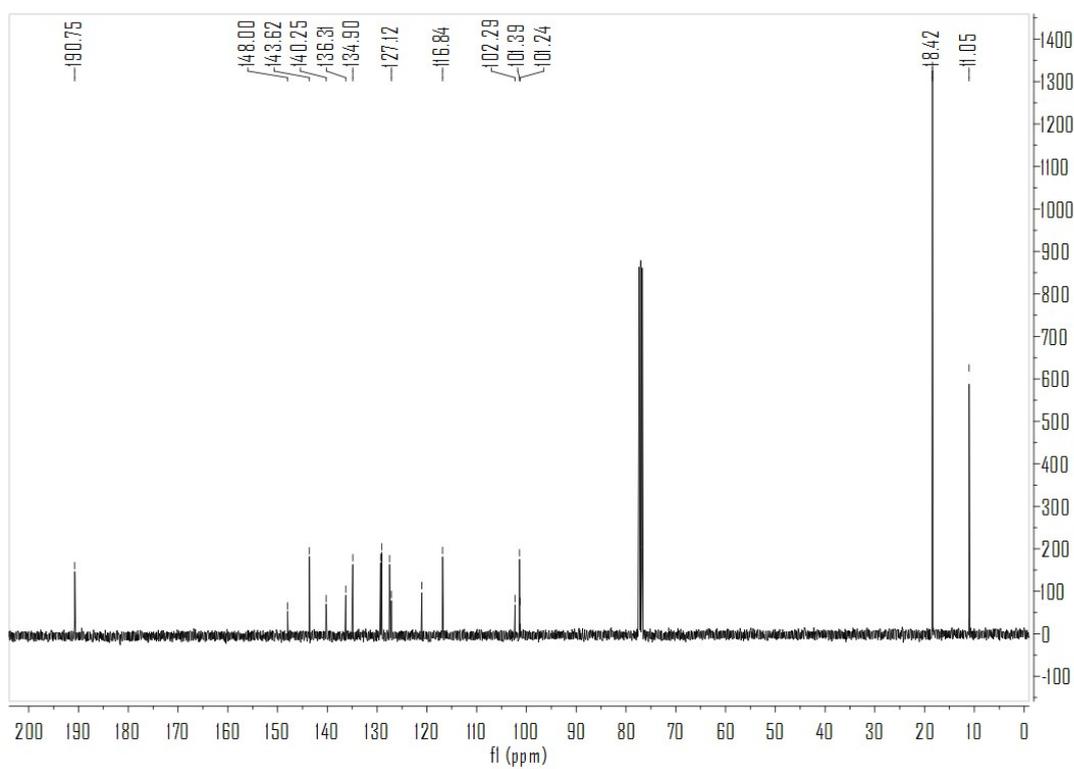
¹³C NMR of 3e



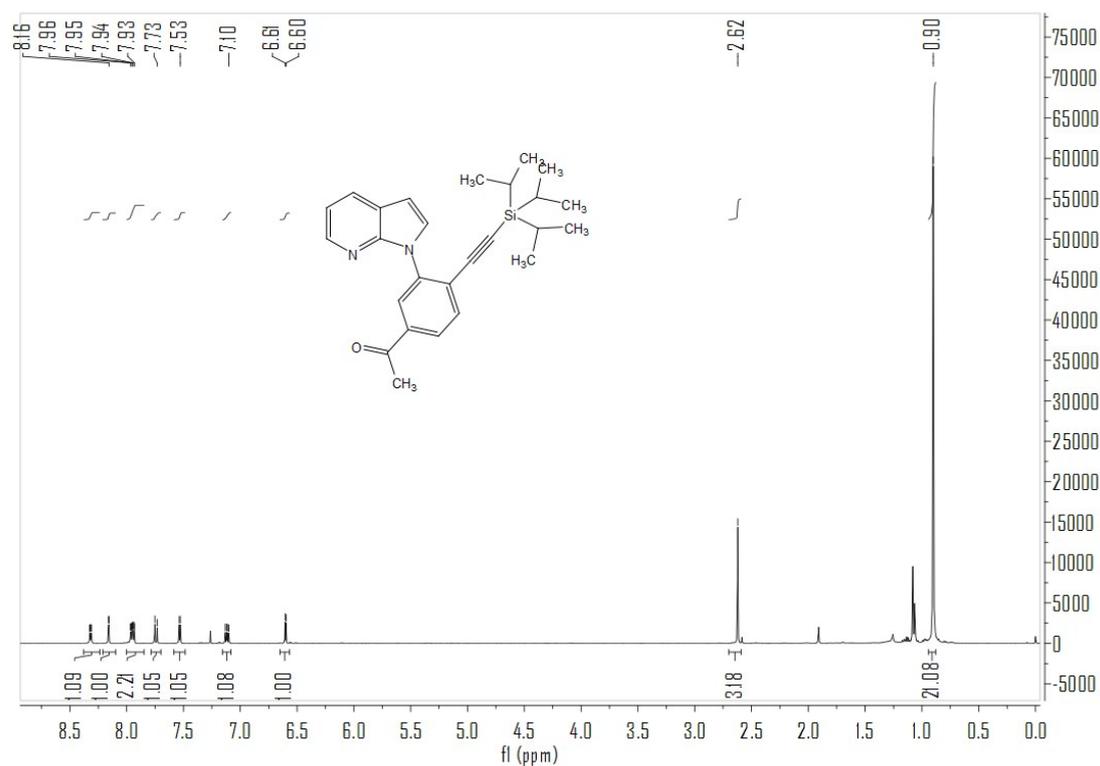
¹H NMR of 3f



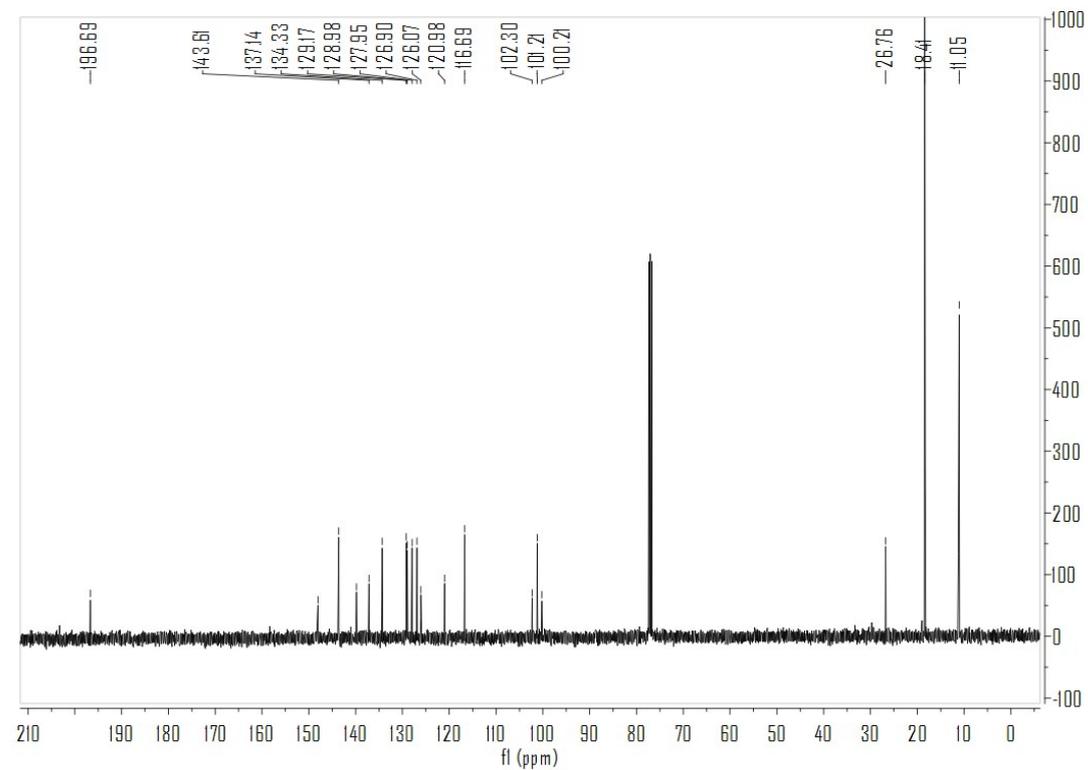
¹³C NMR of 3f



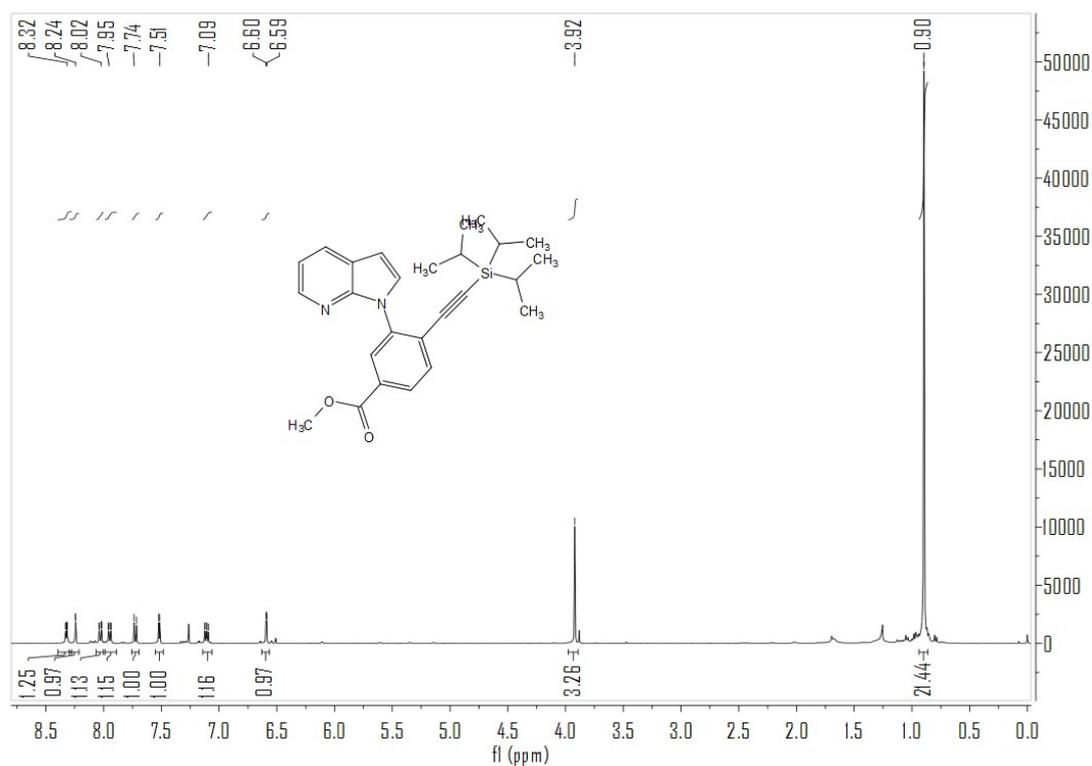
¹H NMR of 3g



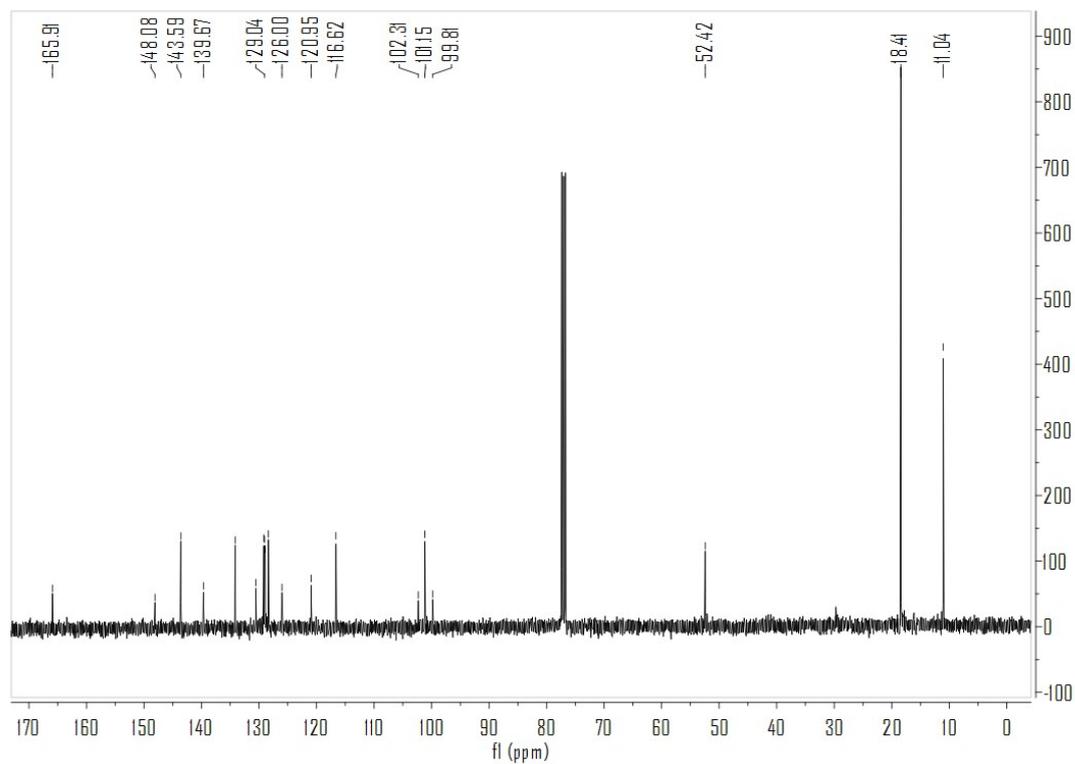
¹³C NMR of 3g



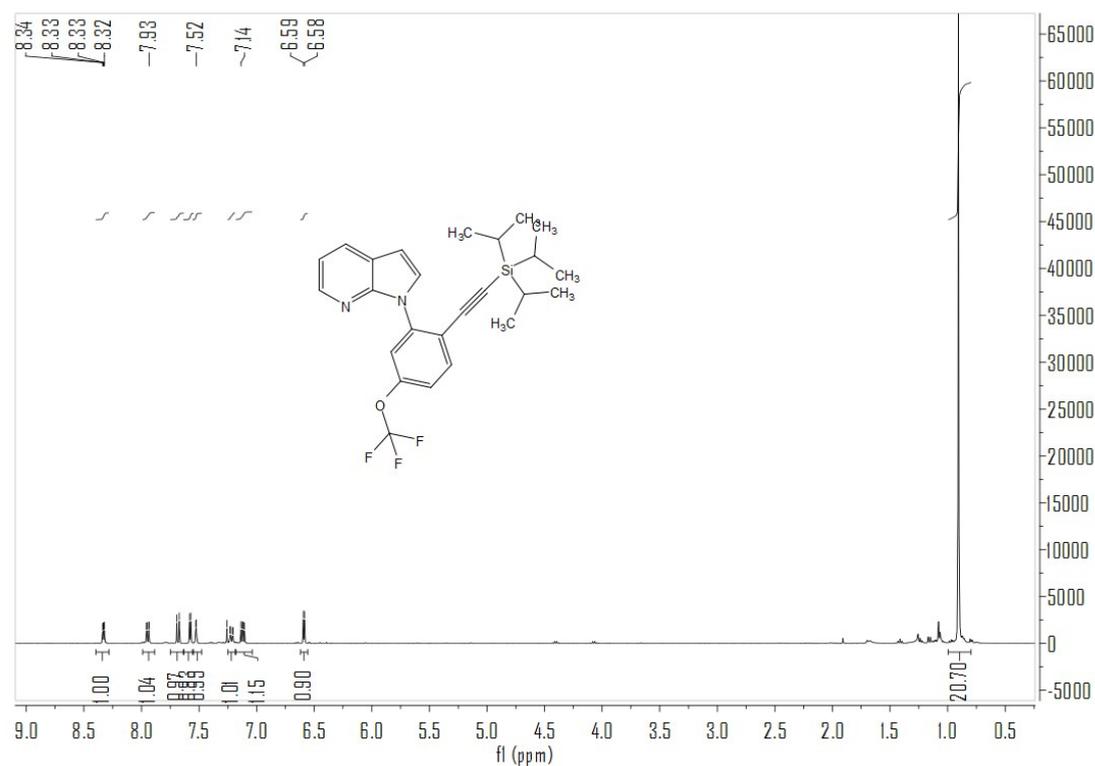
¹H NMR of 3h



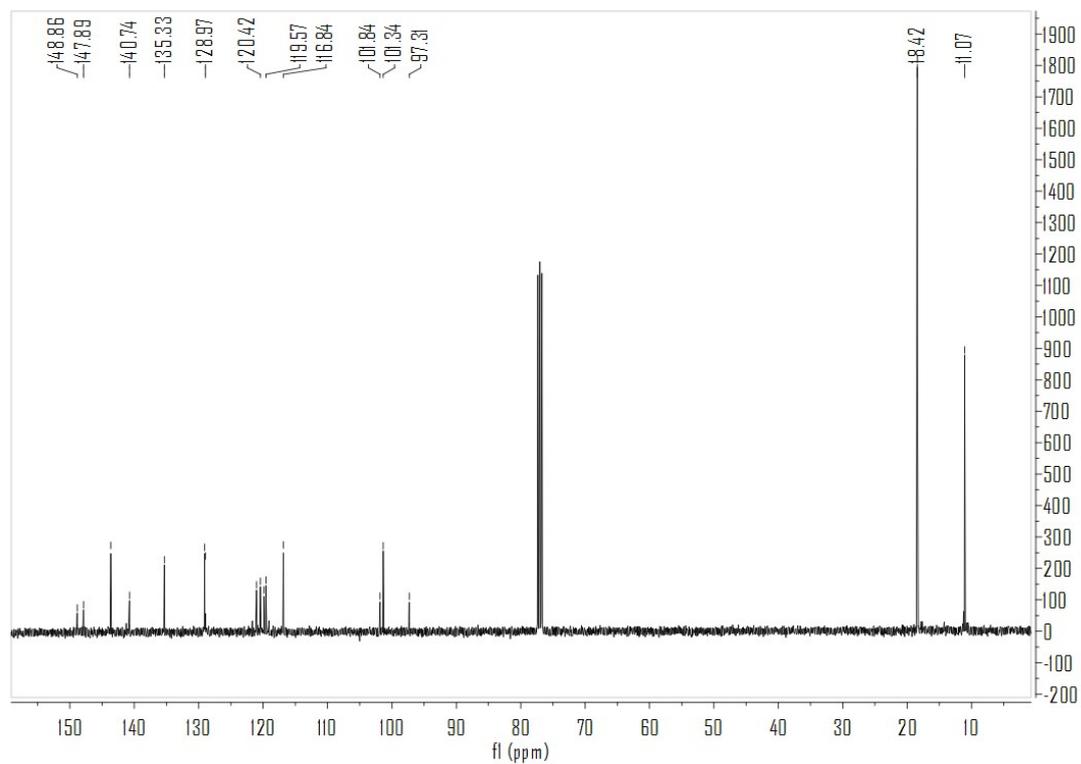
¹³C NMR of 3h



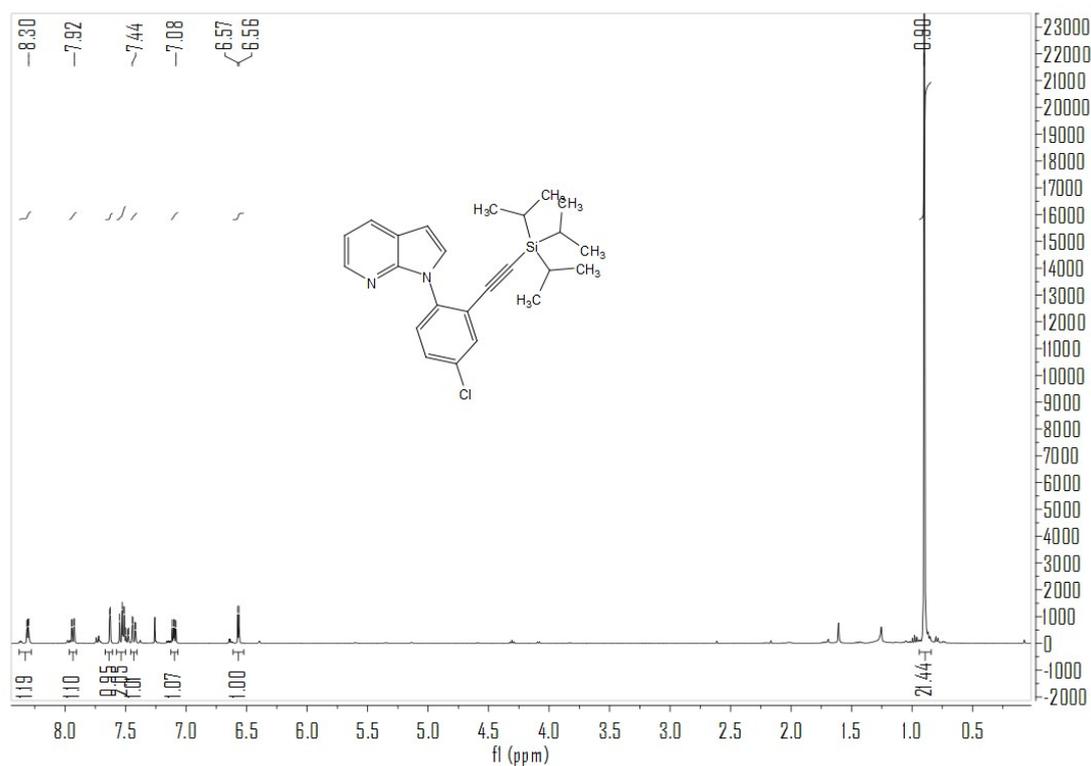
¹H NMR of 3i



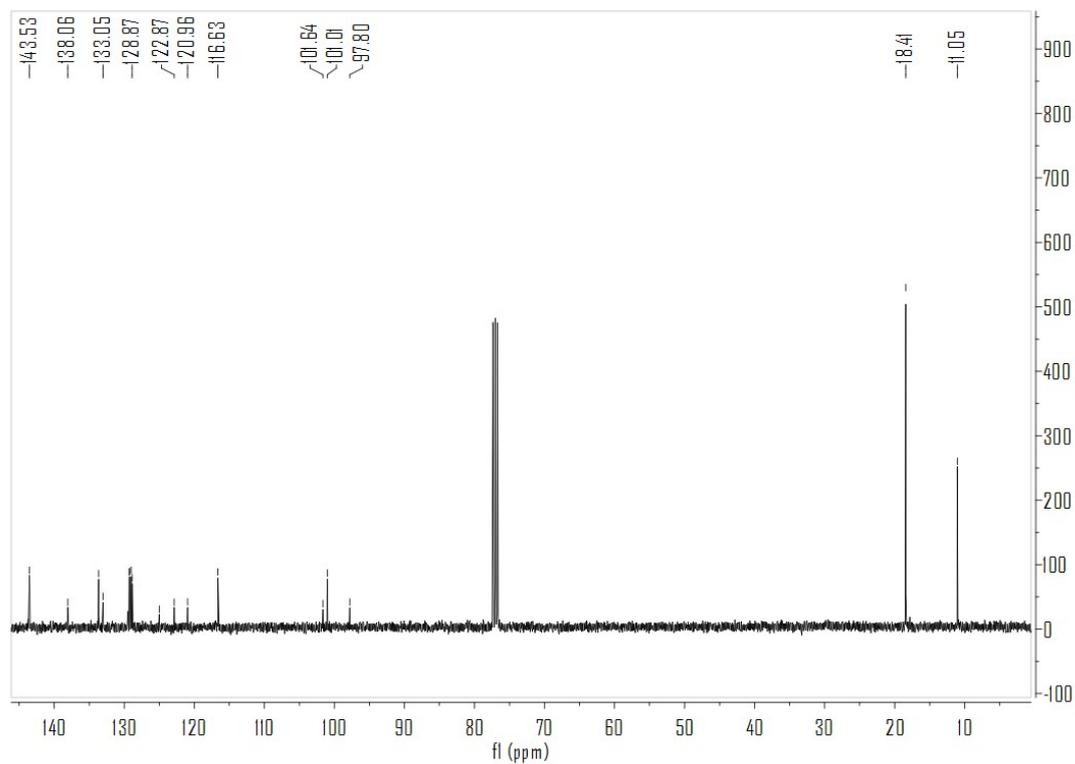
¹³C NMR of 3i



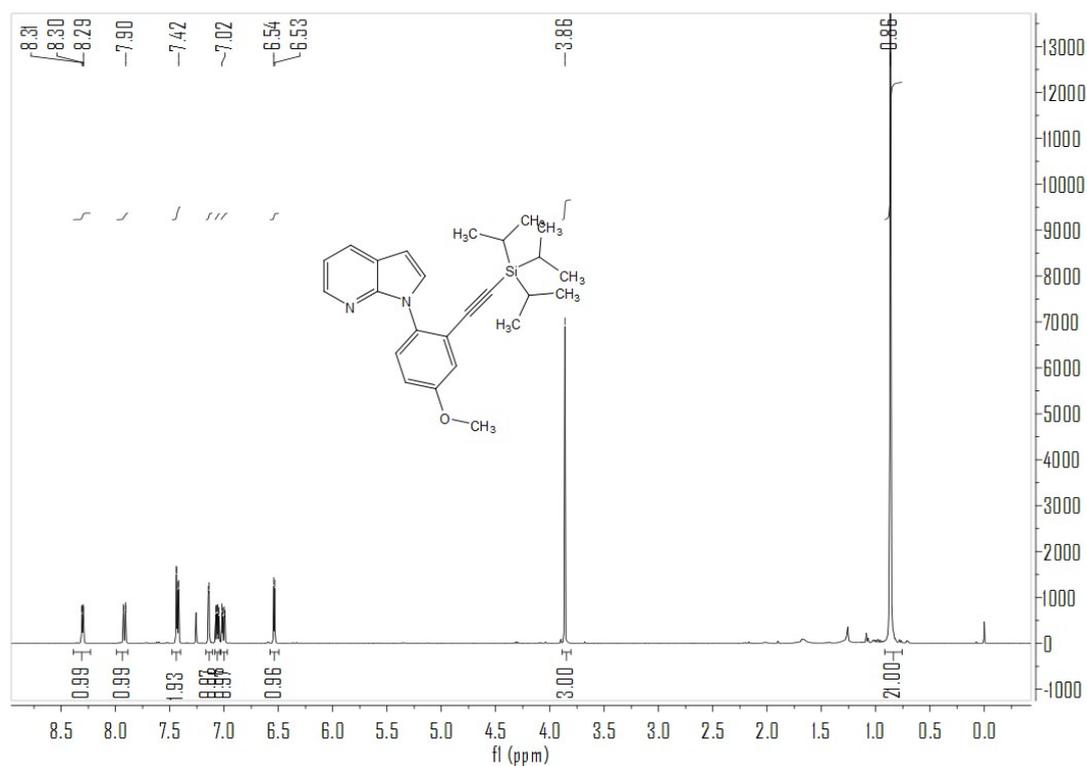
¹H NMR of 3j



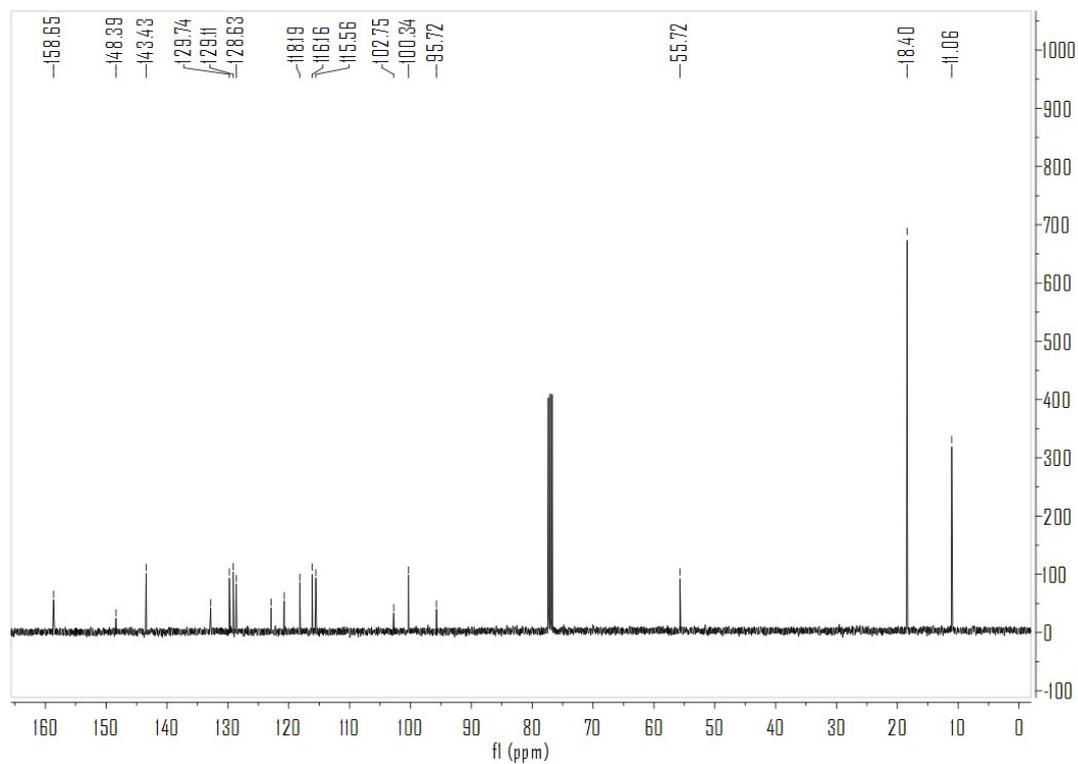
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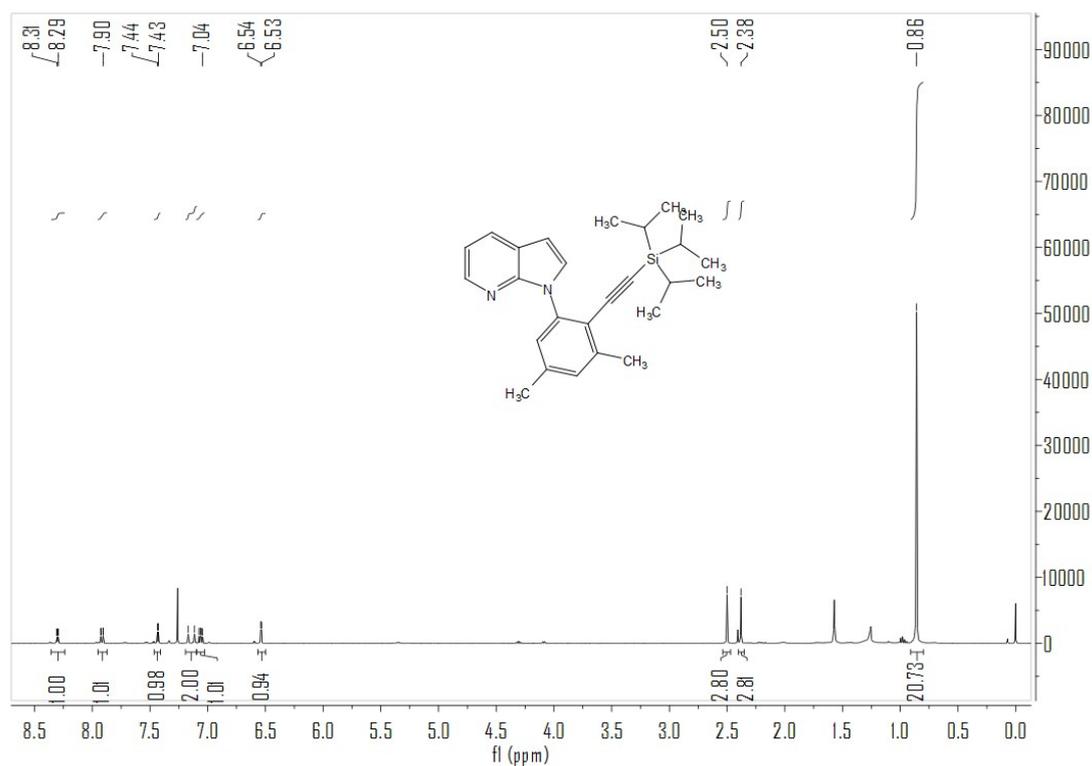
¹H NMR of 3k



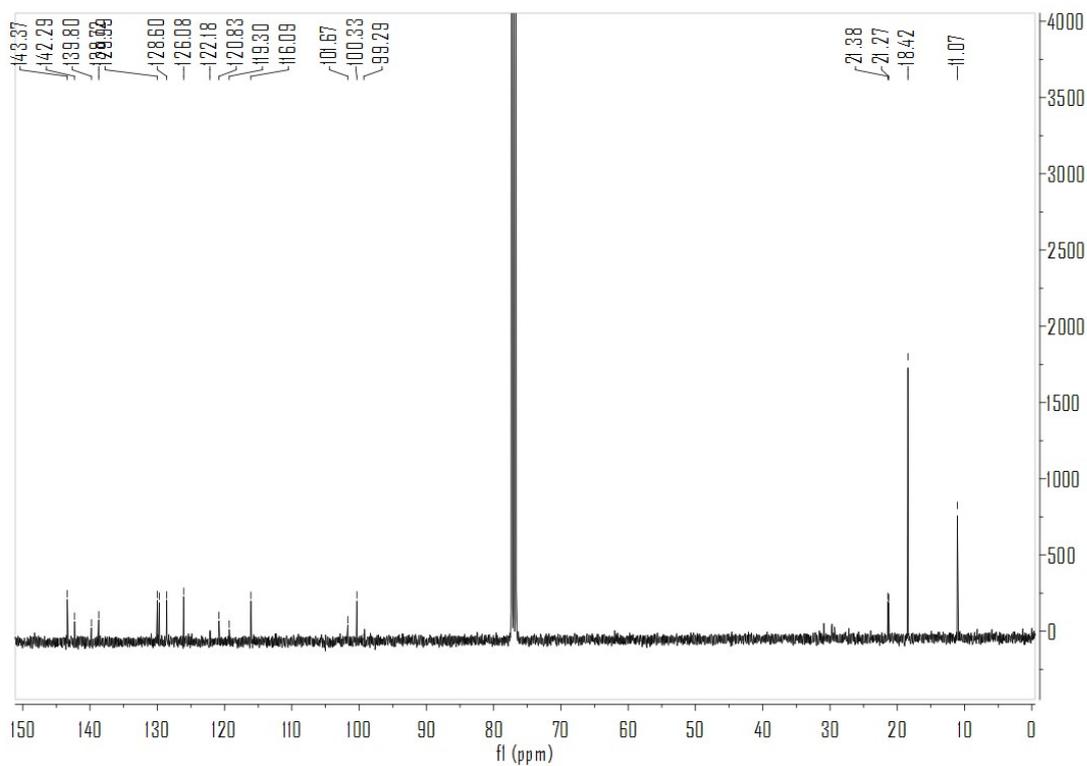
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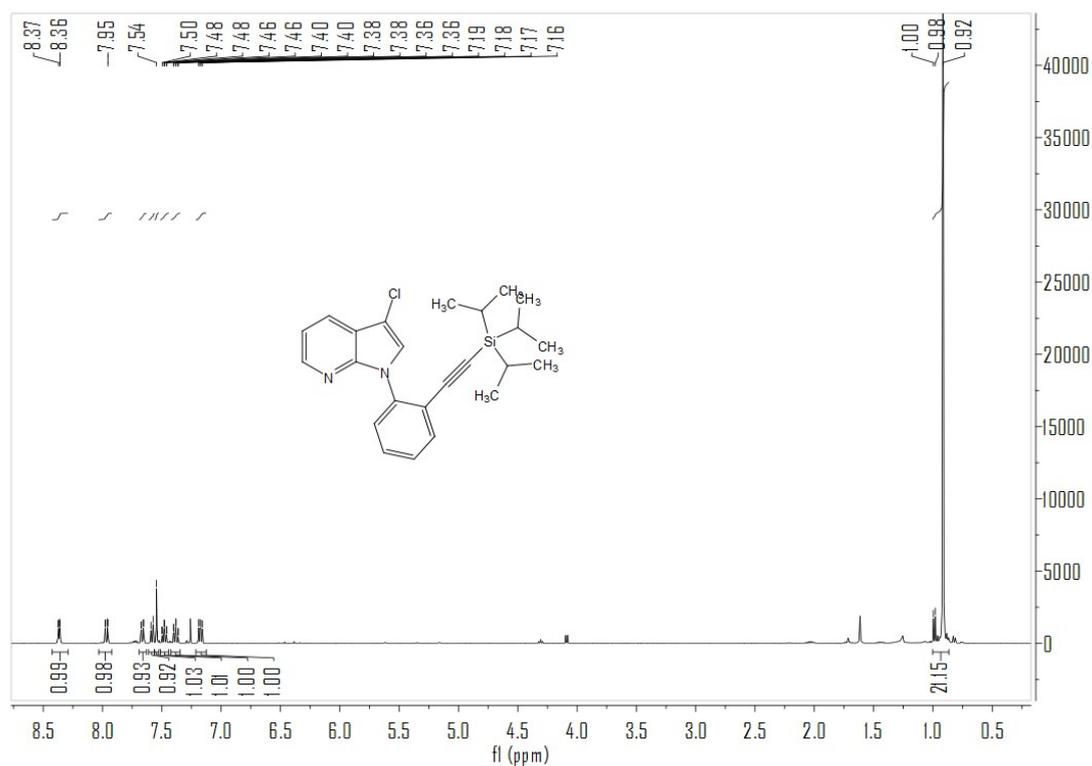
¹H NMR of 31



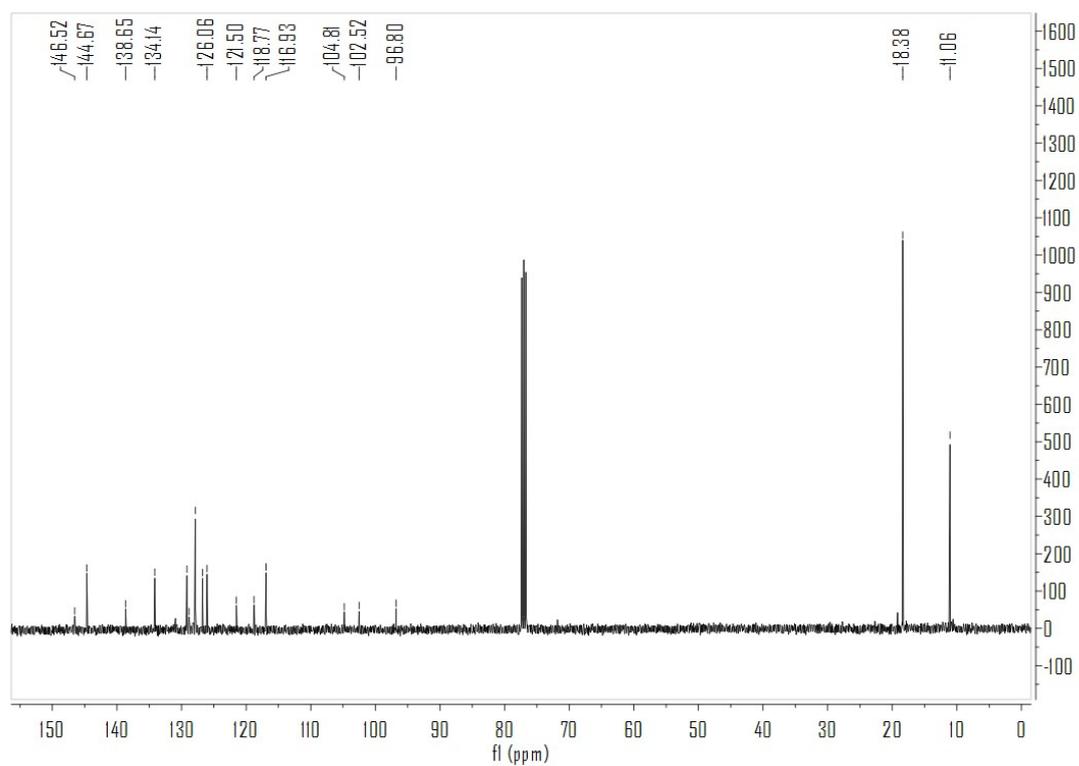
¹³C NMR of 31



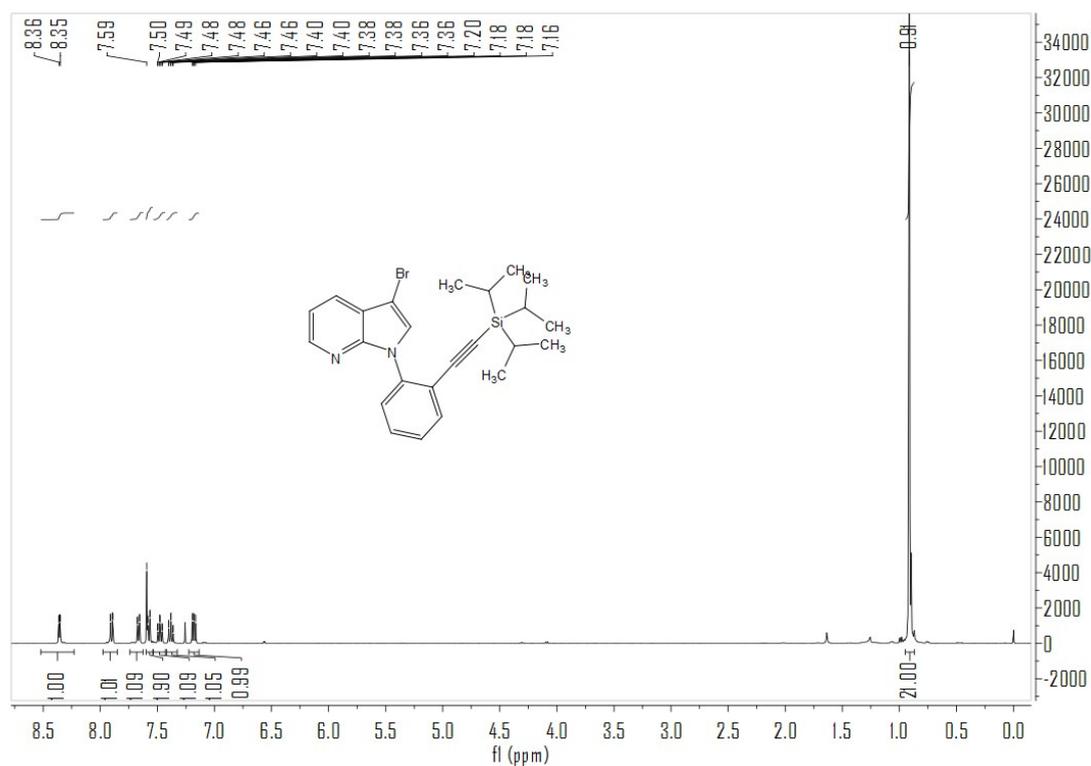
¹H NMR of 3m



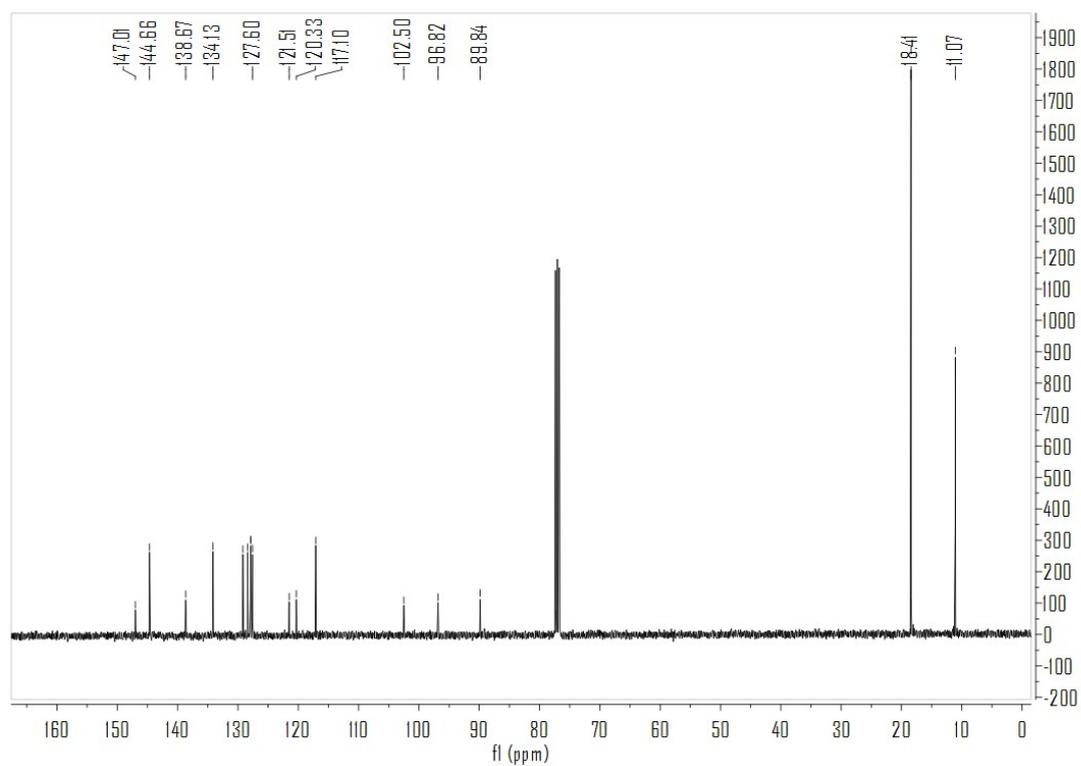
¹³C NMR of 3l



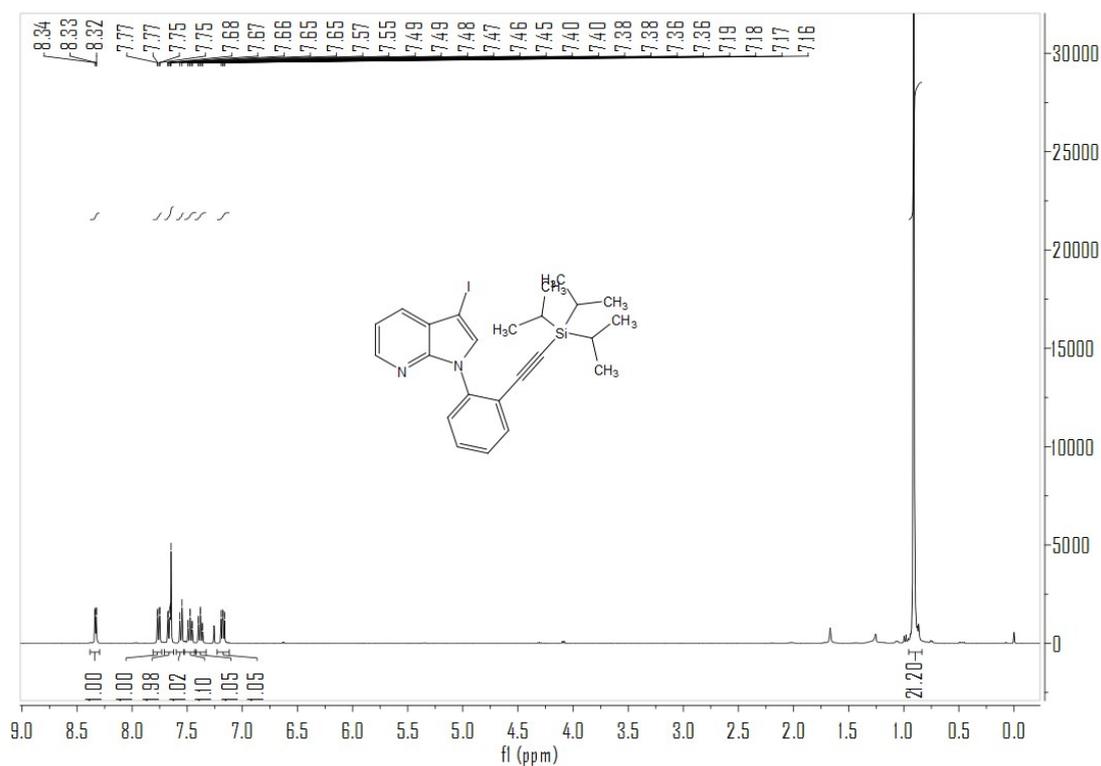
¹H NMR of 3n



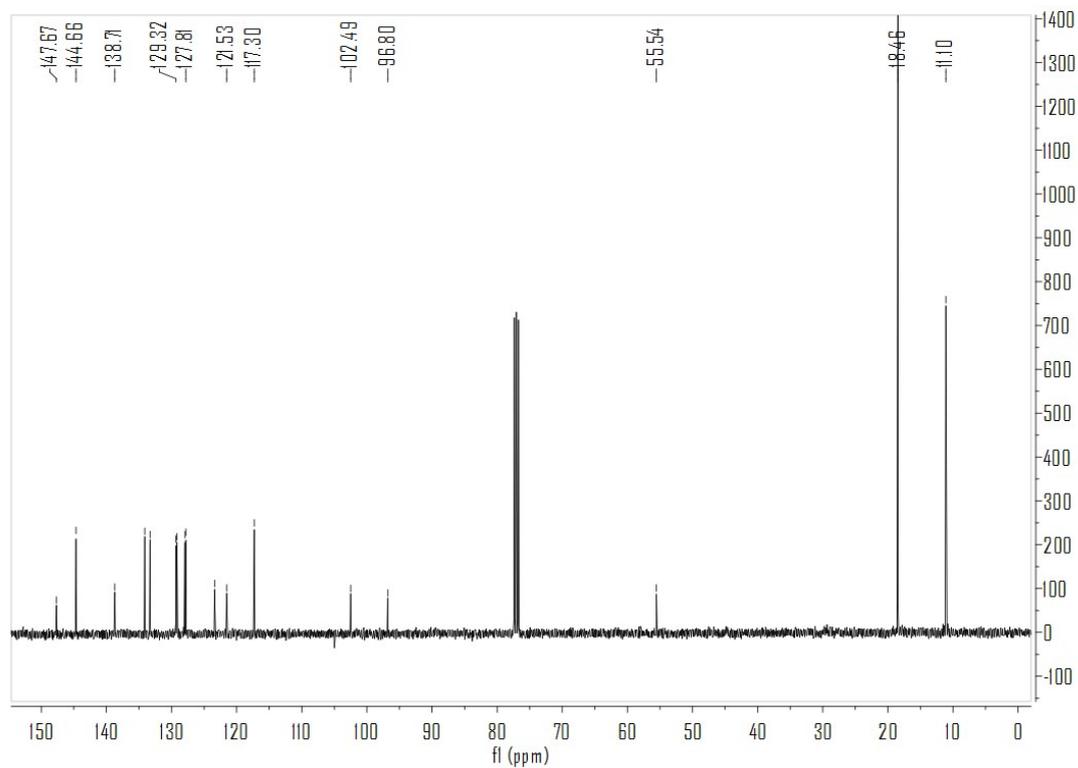
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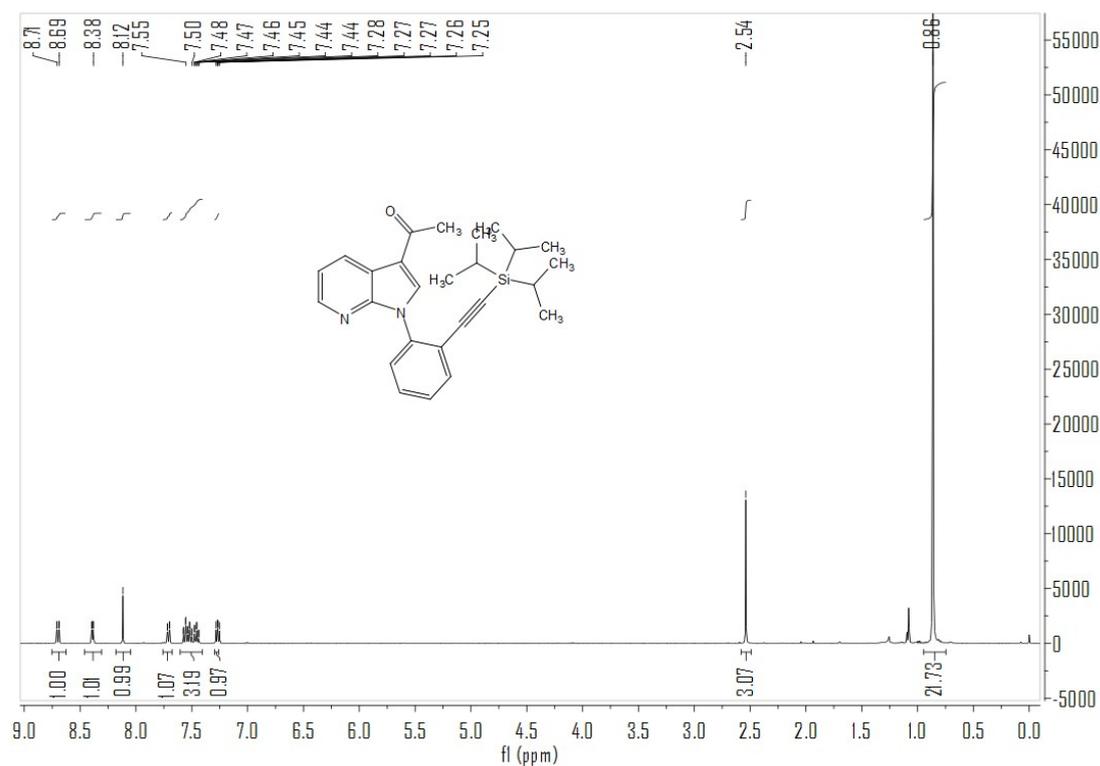
¹H NMR of 3o



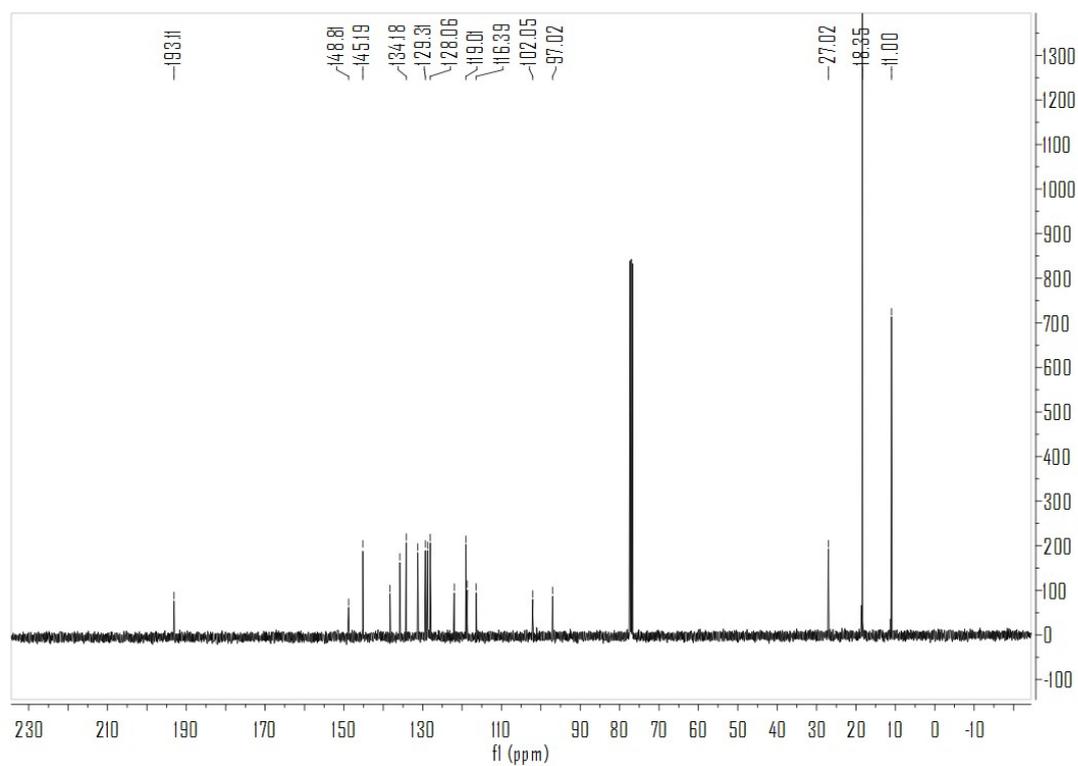
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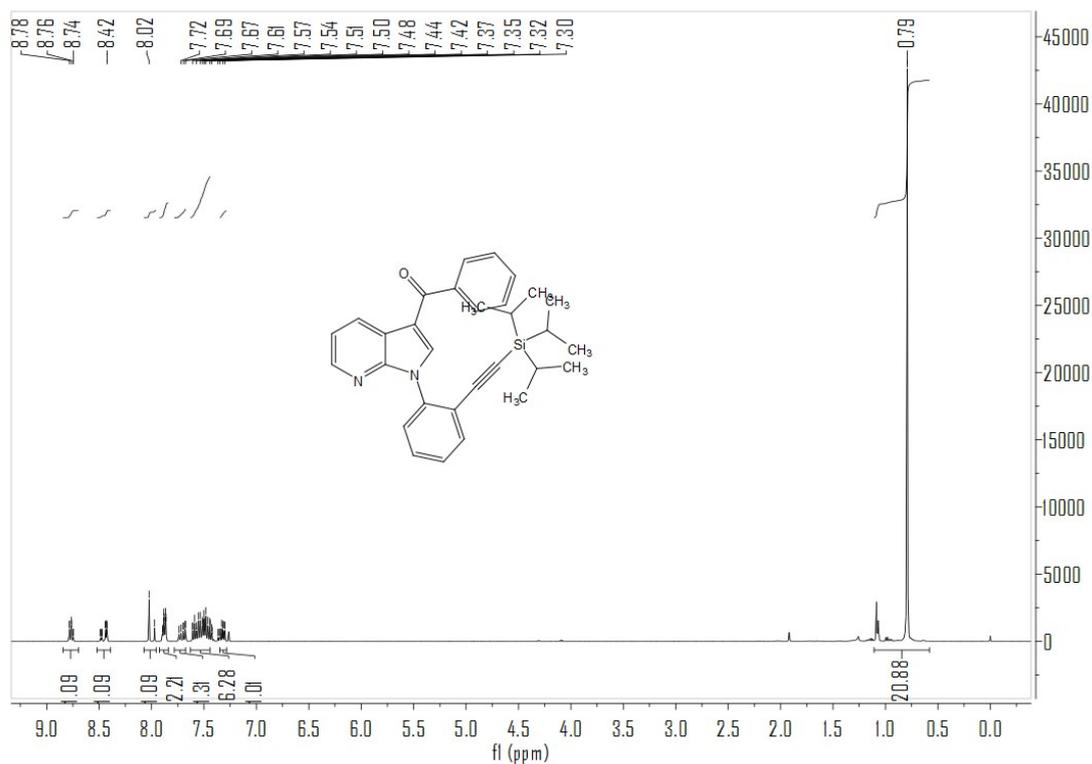
¹H NMR of 3p



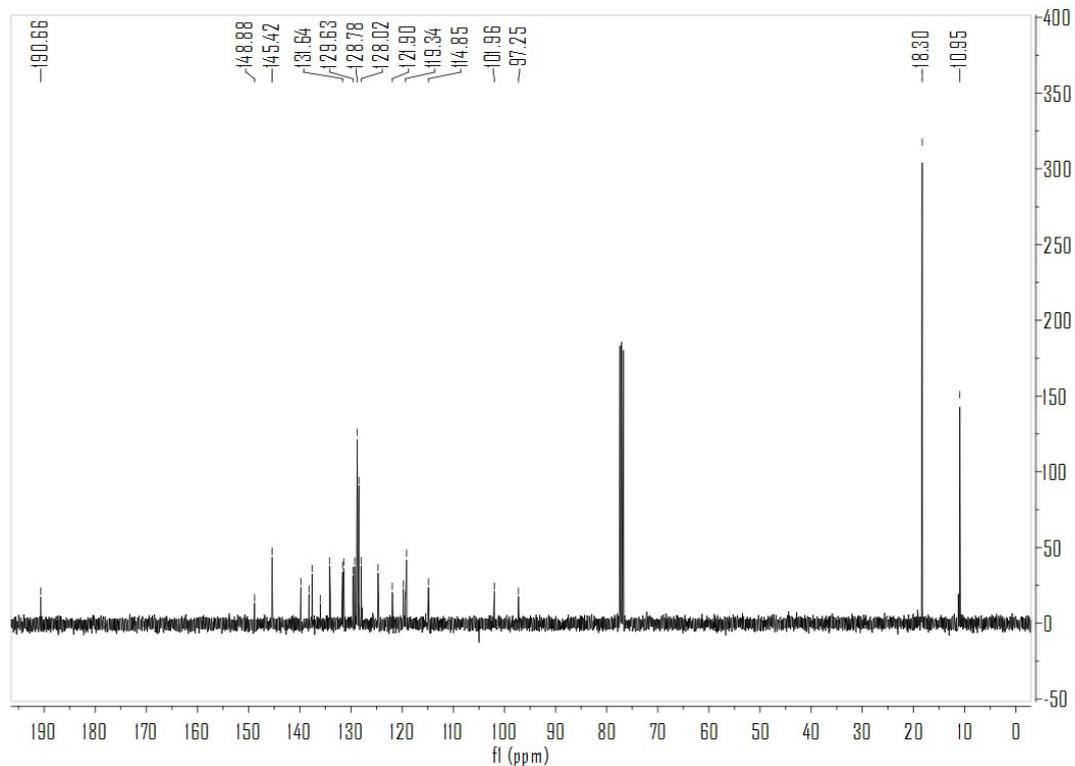
¹³C NMR of 3p



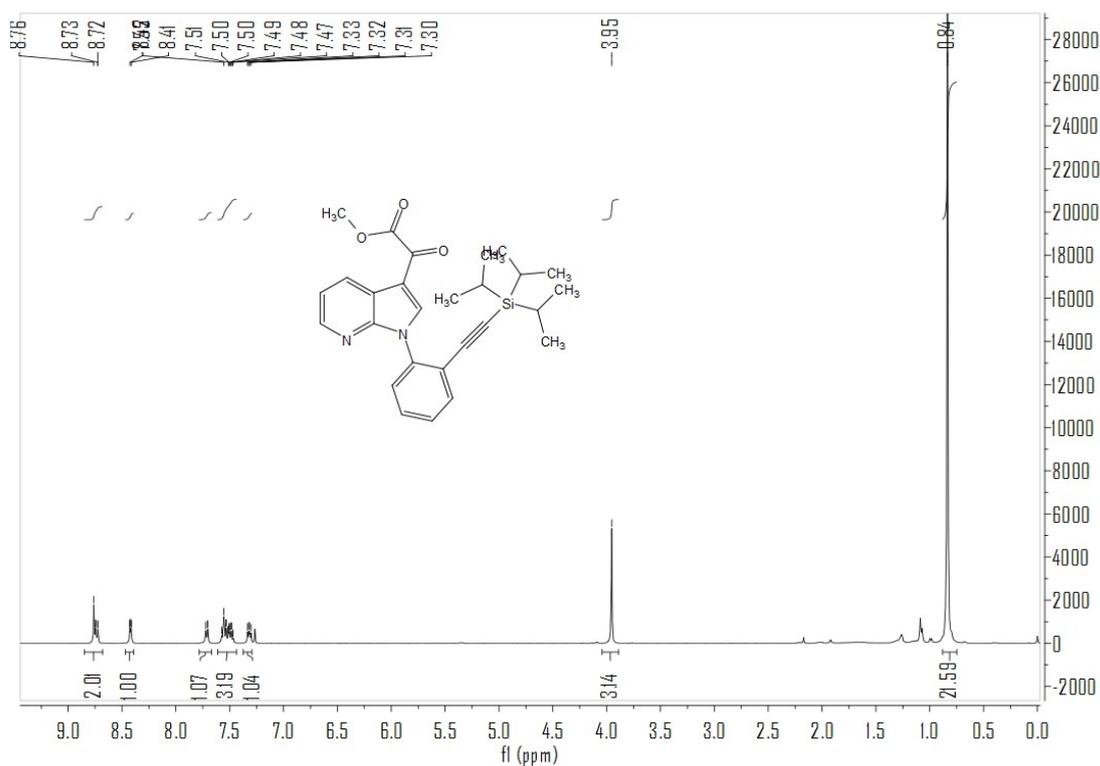
¹H NMR of 3q



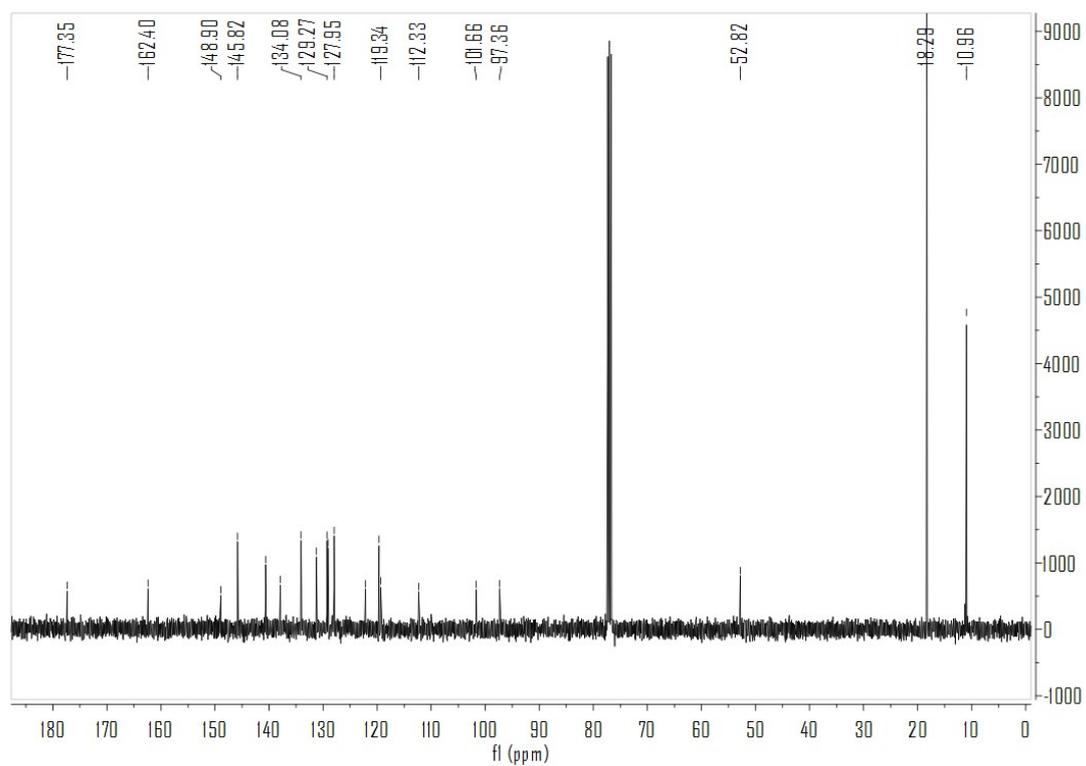
¹³C NMR of 3q



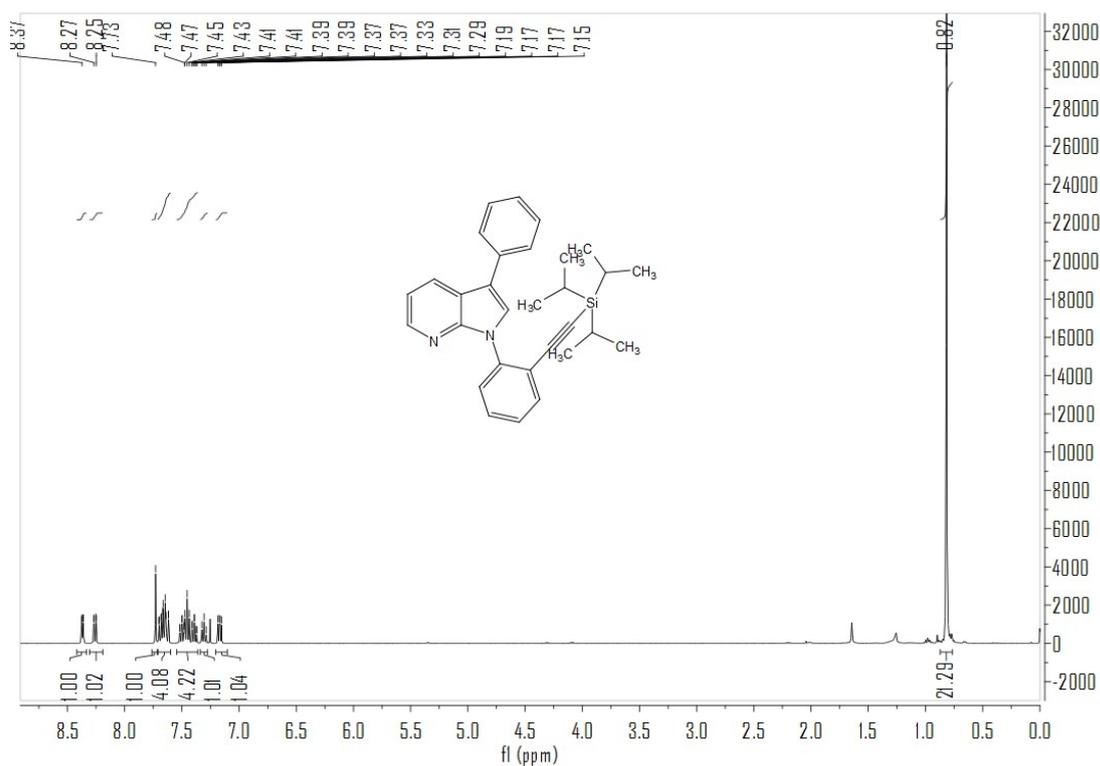
¹H NMR of 3r



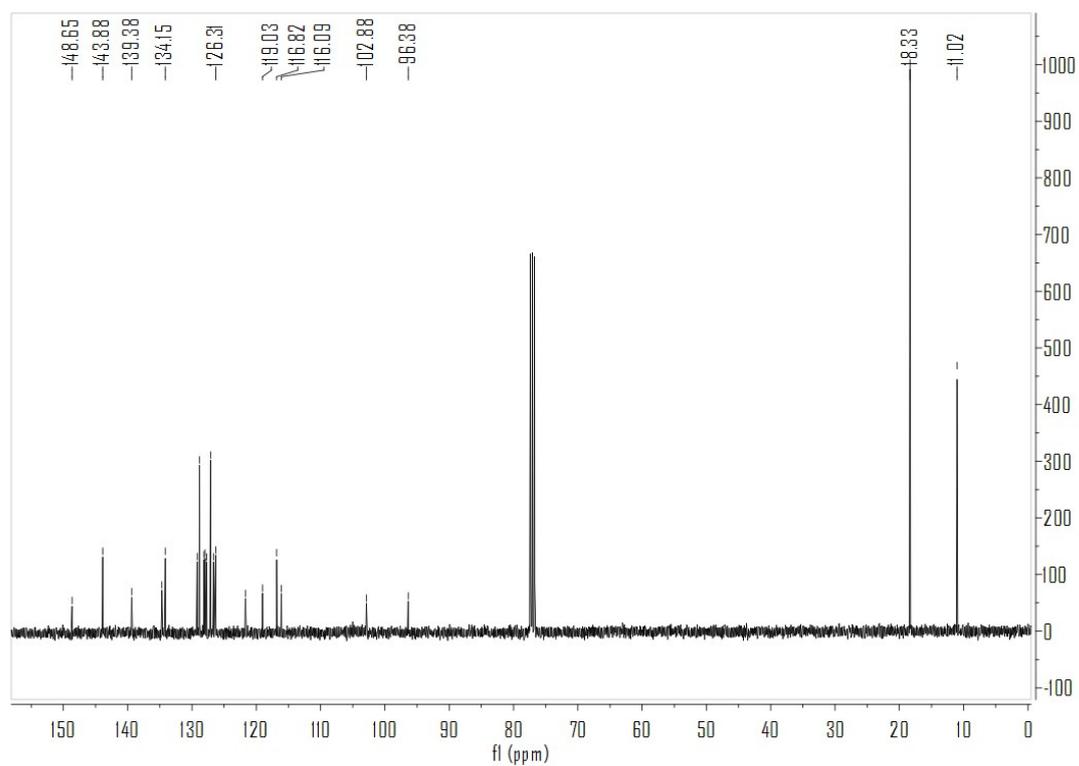
¹³C NMR of 3r



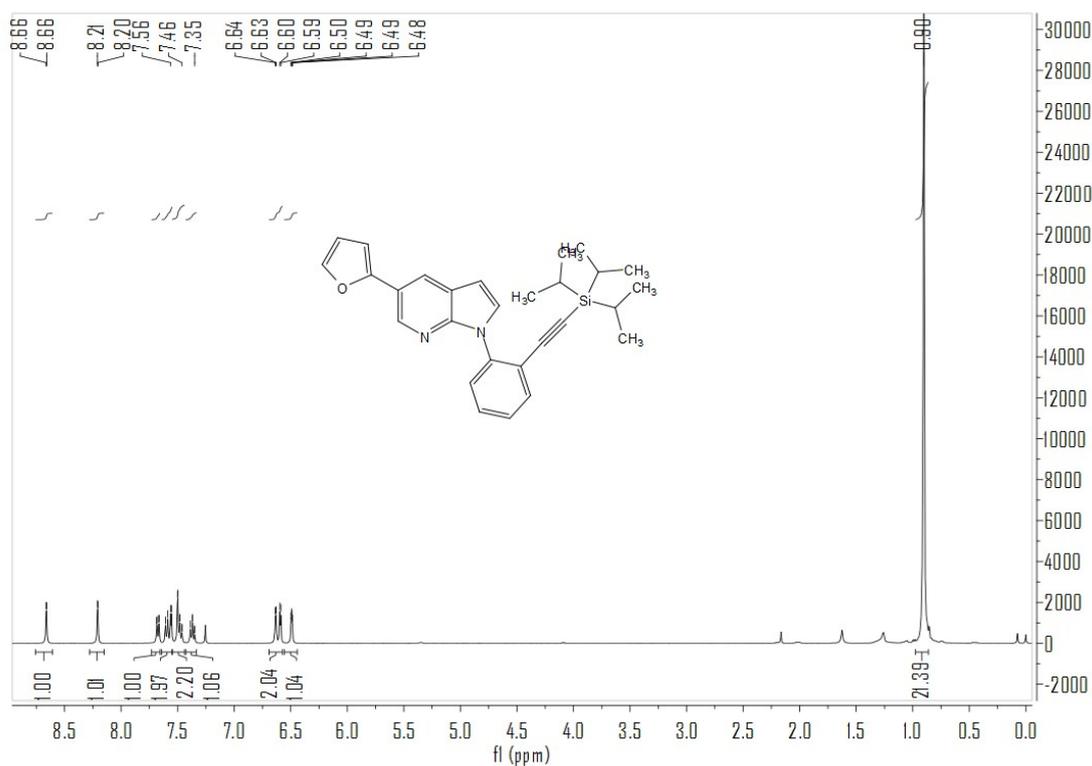
¹H NMR of 3s



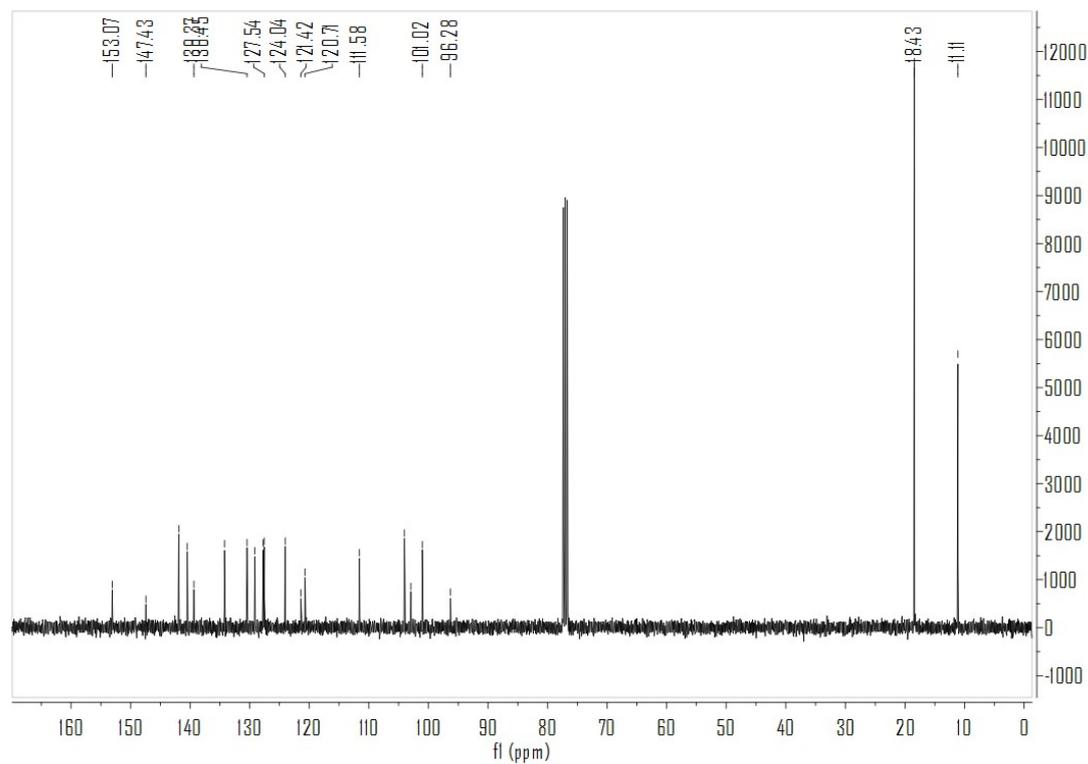
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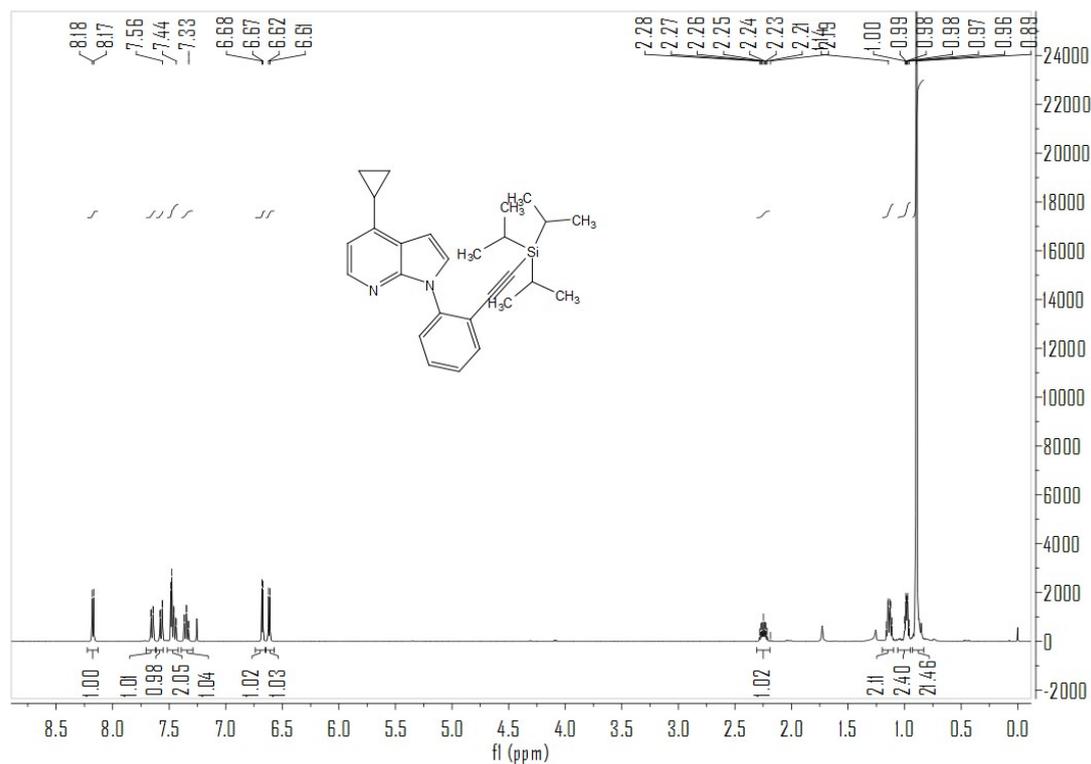
¹H NMR of 3t



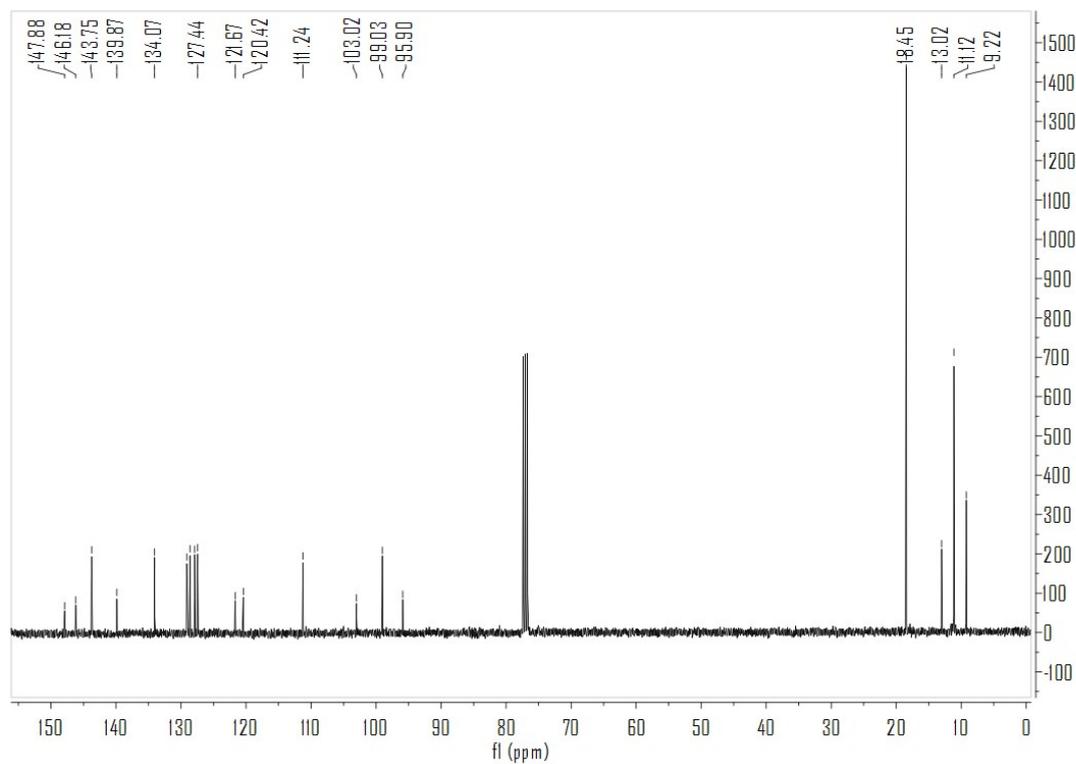
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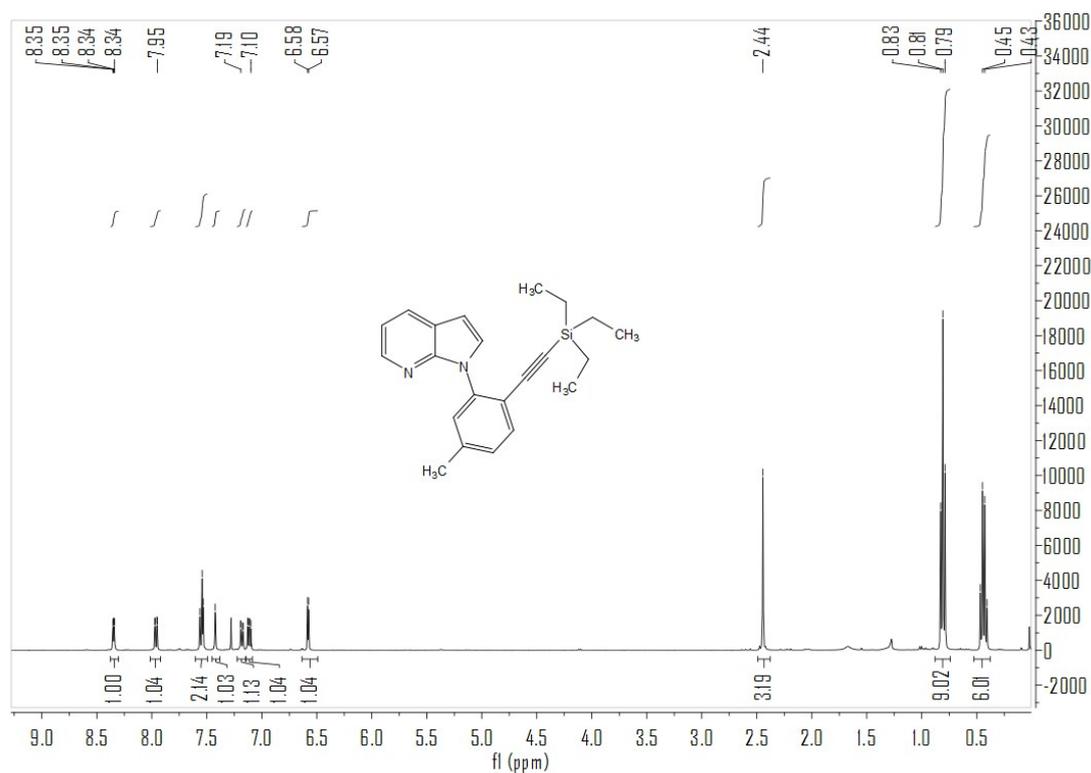
¹H NMR of 3u



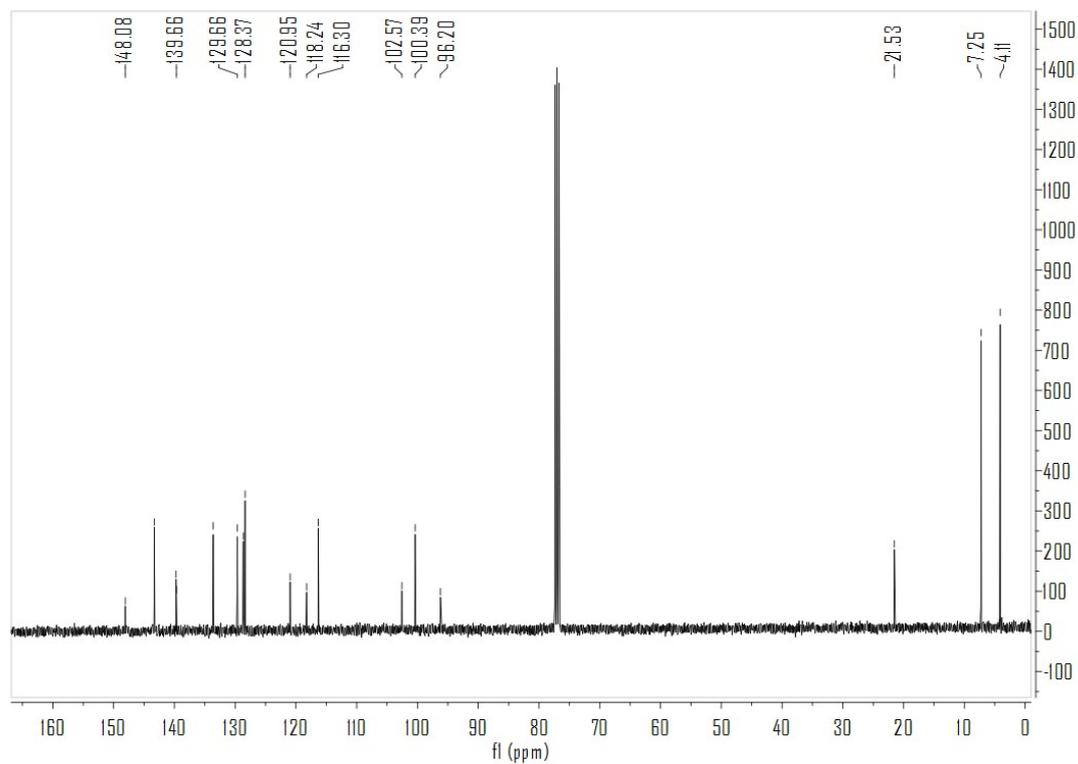
¹³C NMR of 3u



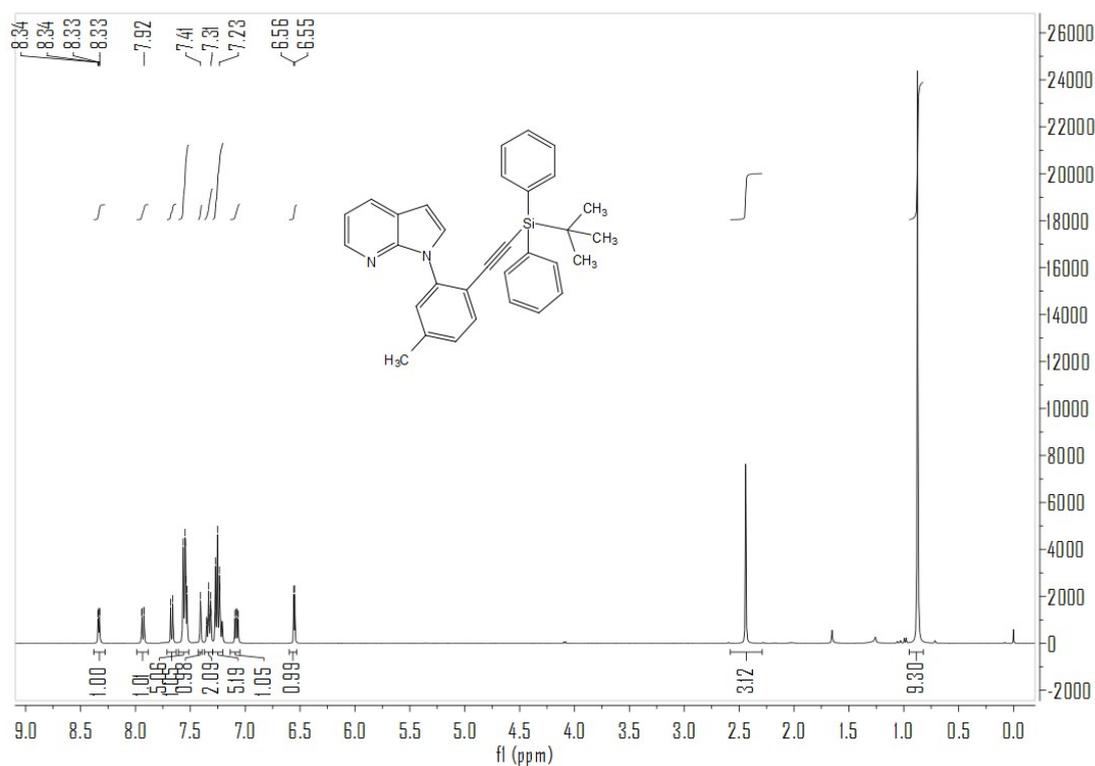
¹H NMR of 3v



¹³C NMR of 3v



¹H NMR of 3w



¹³C NMR of 3w

