

## Supplementary Information

Synthesis of functionalized chromeno[2,3-*b*]pyrrole-2,3-dicarboxylate *via* Zn(OTf)<sub>2</sub>-catalyzed annulation of 2-amino-4*H*-chromen-4-one and electron-deficient acetylenes

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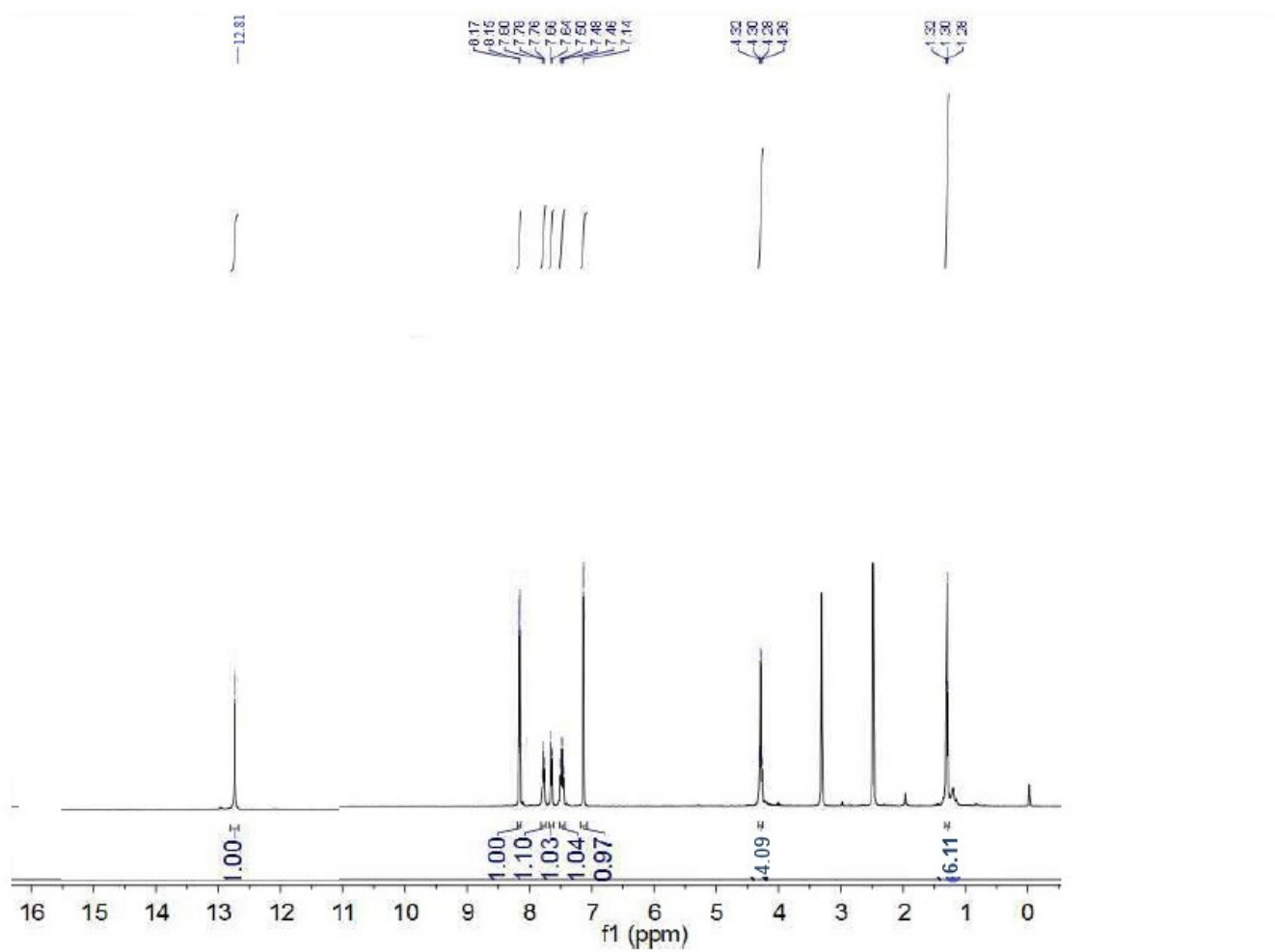


Figure S 1:  $^1\text{H}$  NMR spectrum of compound 3a

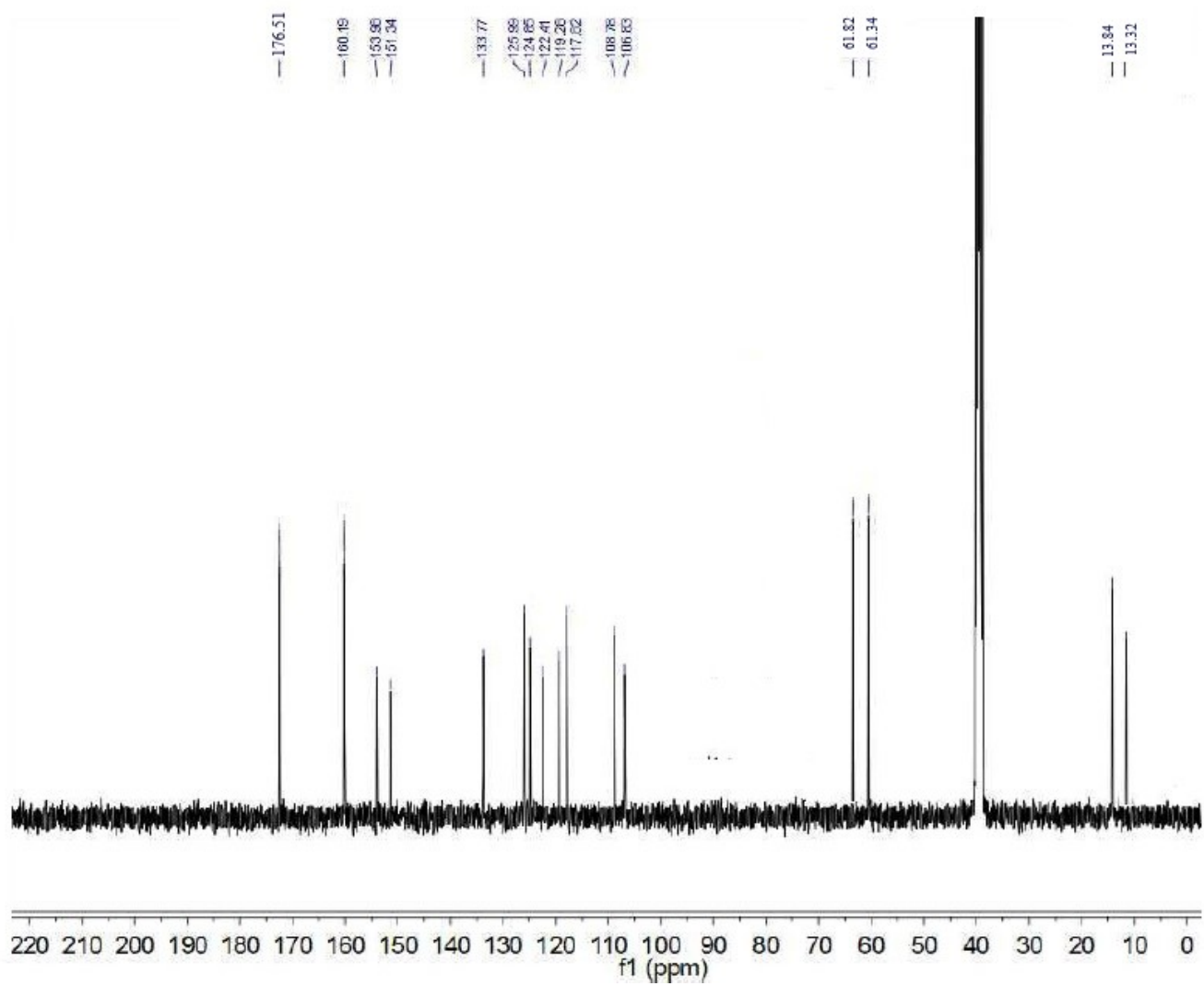


Figure S 2:  $^{13}\text{C}$  NMR spectrum of compound 3a

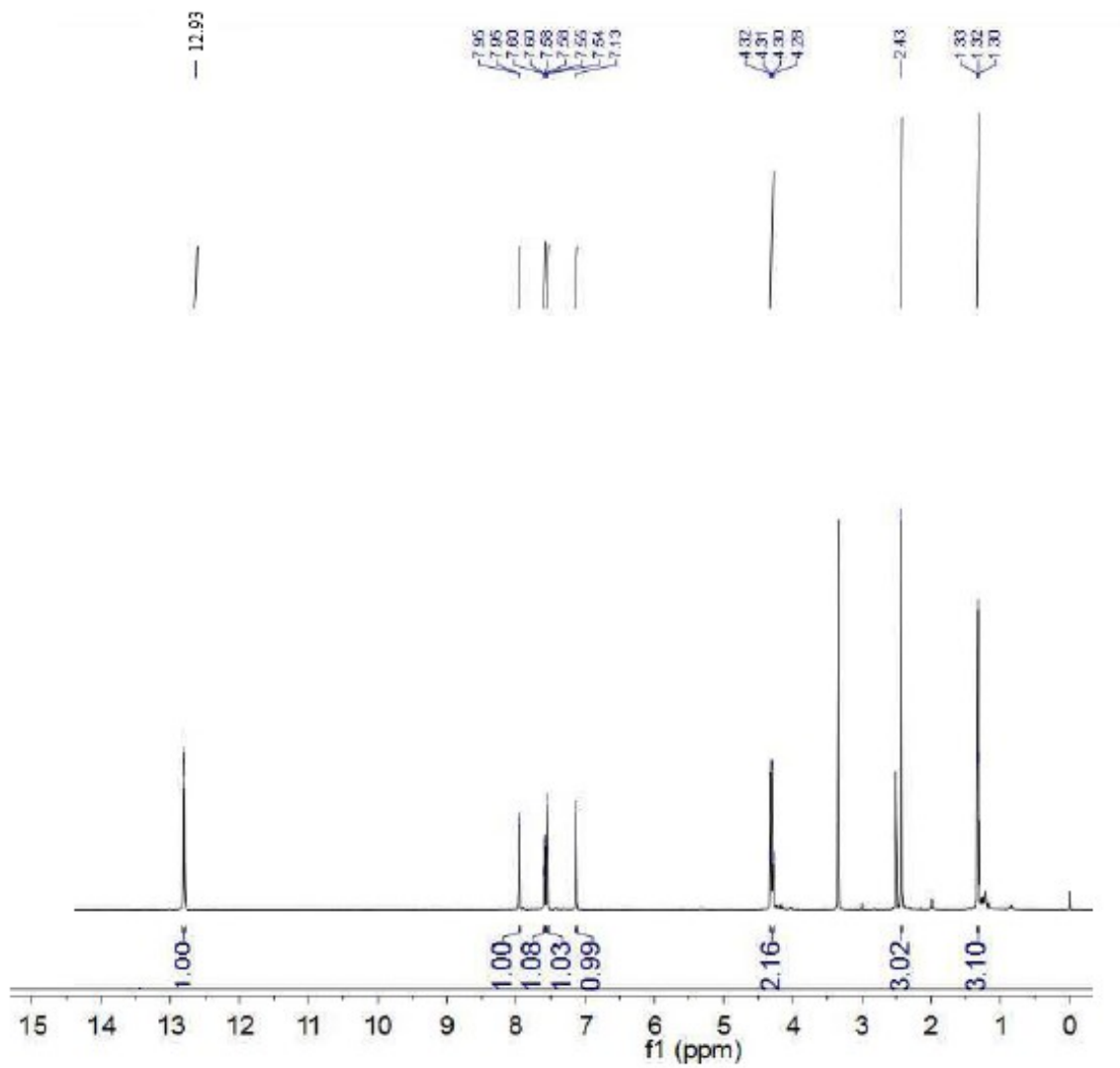


Figure S 3:  $^1\text{H}$  NMR spectrum of compound 3b

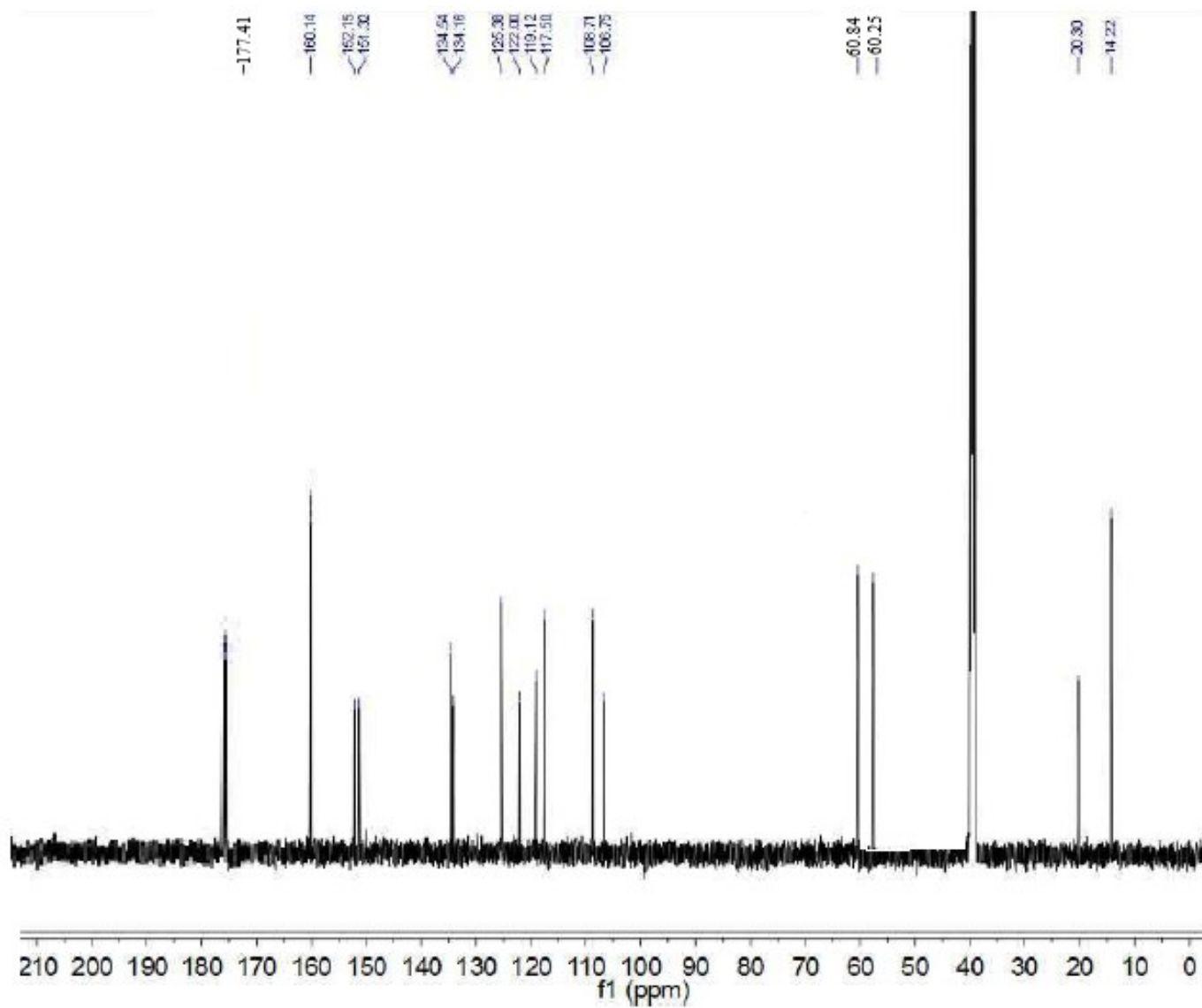


Figure S 4:  $^{13}\text{C}$  NMR spectrum of compound 3b

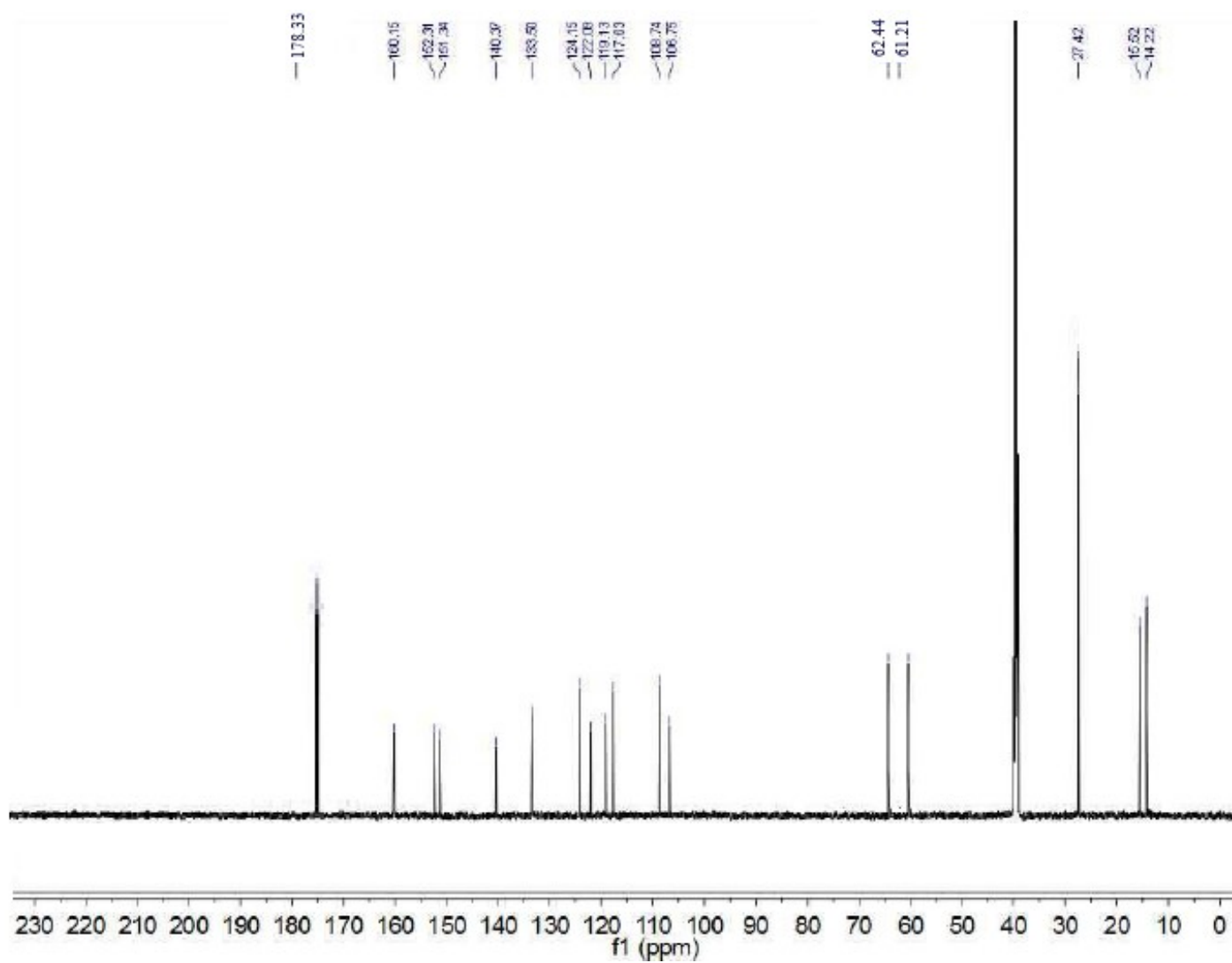


Figure S 5:  $^{13}\text{C}$  NMR spectrum of compound 3c

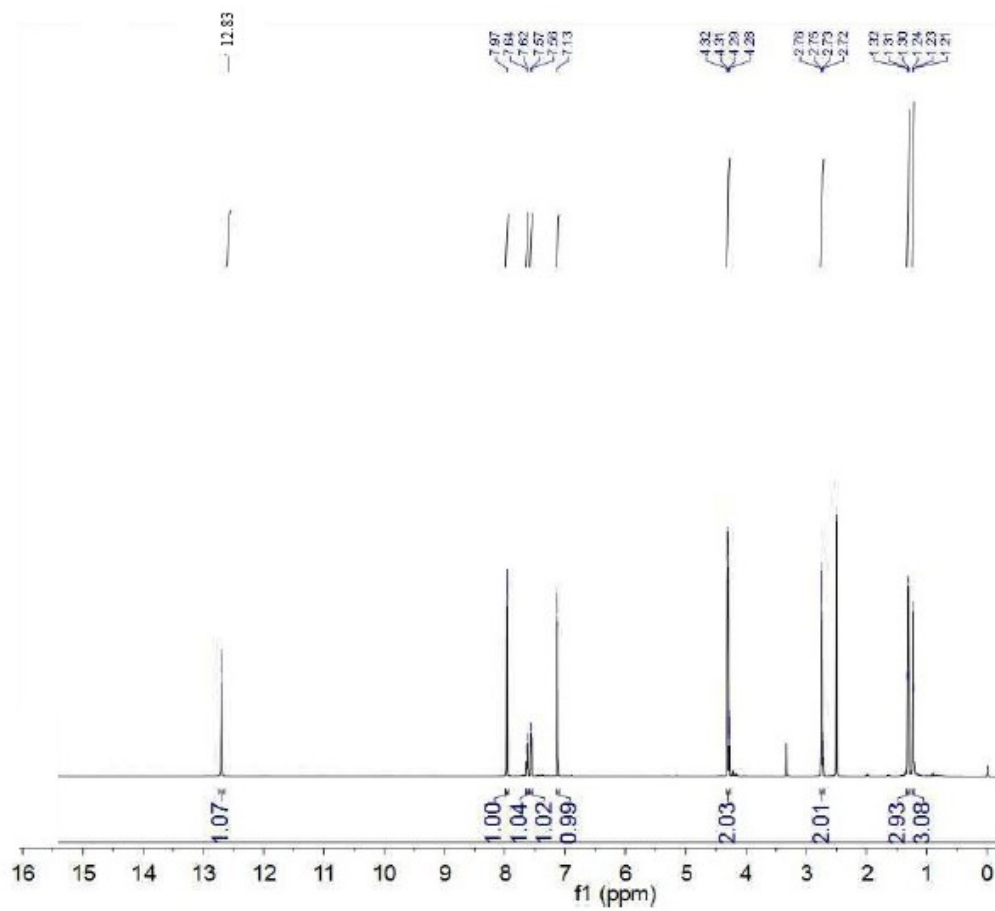


Figure S 6:  $^{13}\text{C}$  NMR spectrum of compound 3c

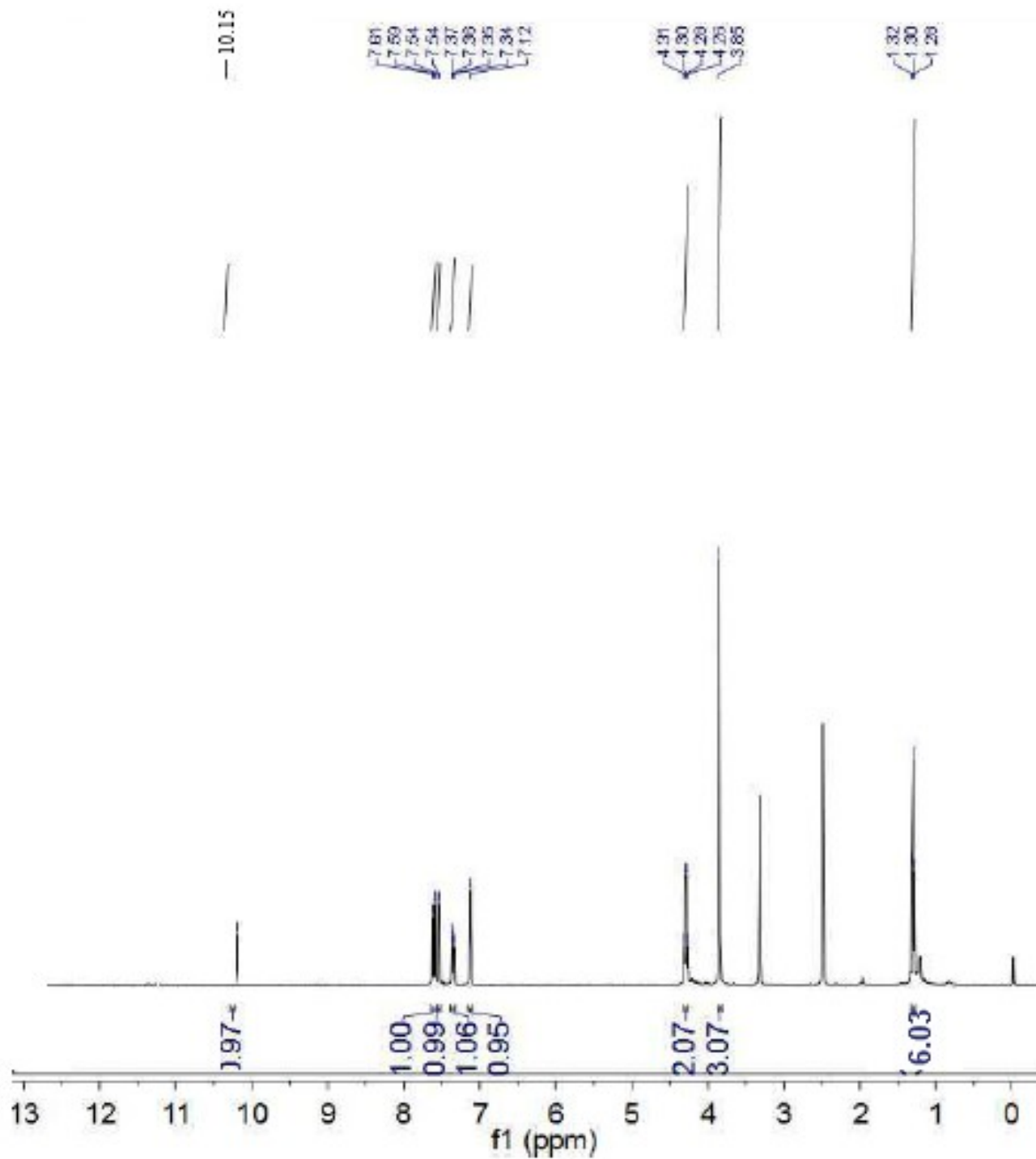


Figure S 7:  $^1\text{H}$  NMR spectrum of compound 3d

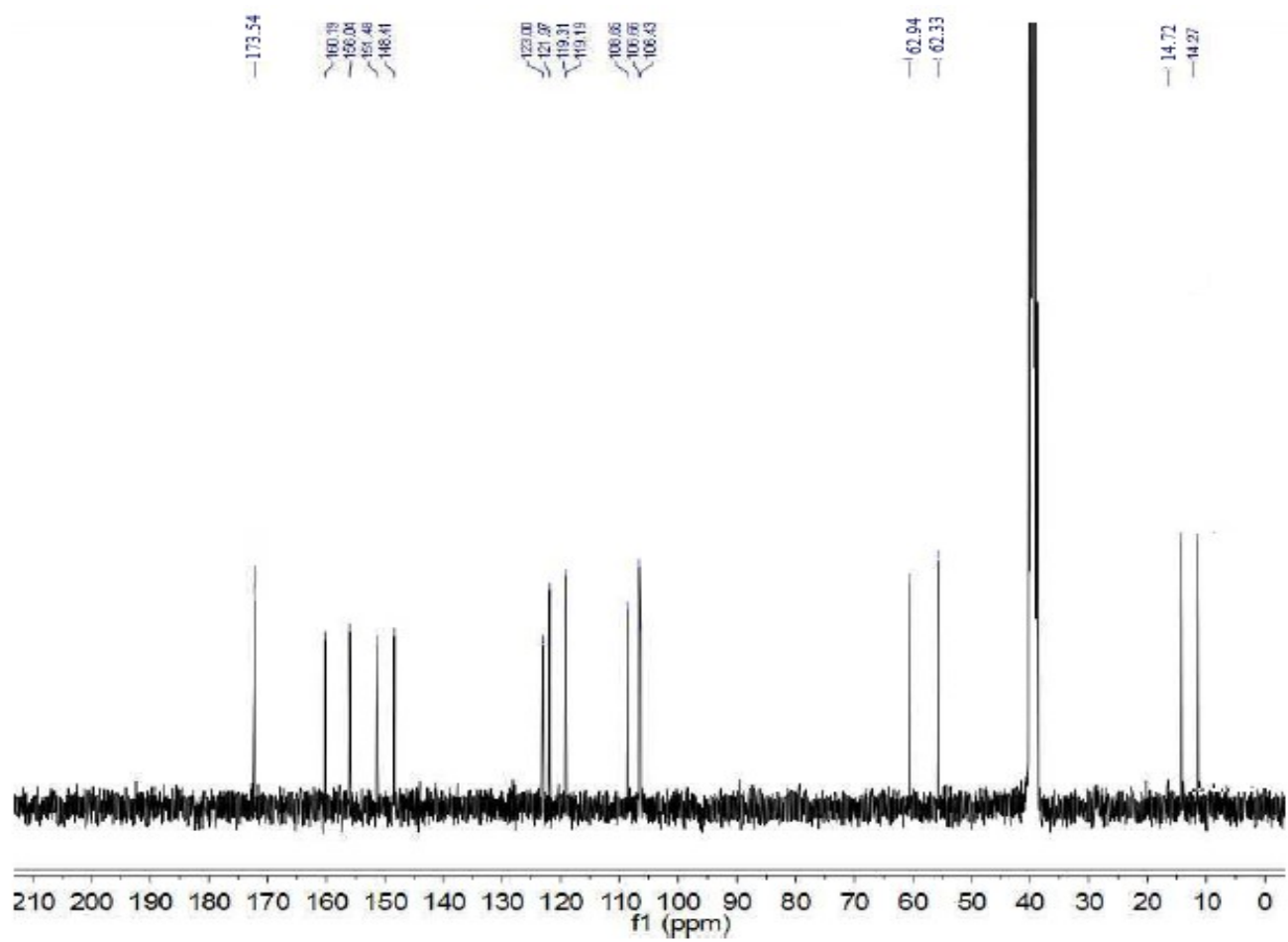


Figure S 8:  $^{13}\text{C}$  NMR spectrum of compound 3d

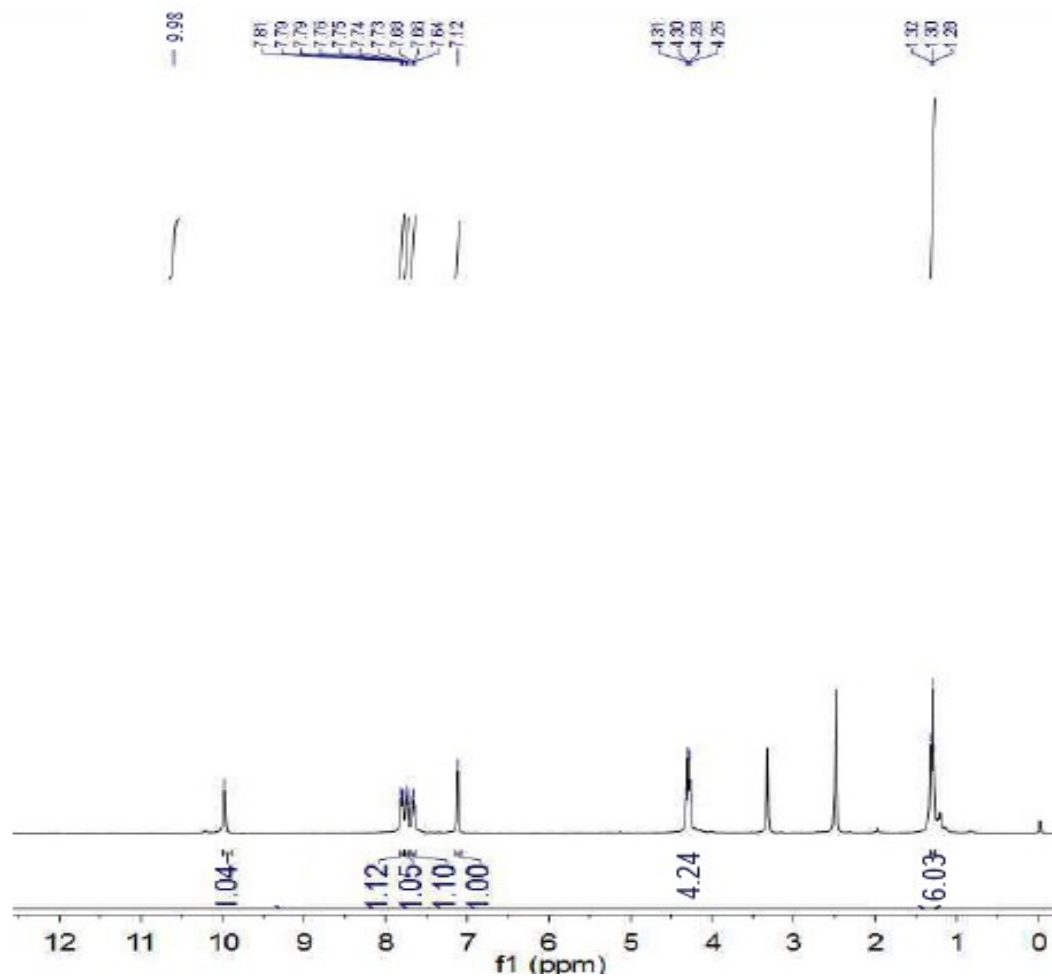


Figure S 9:  $^1\text{H}$  NMR spectrum of compound 3e

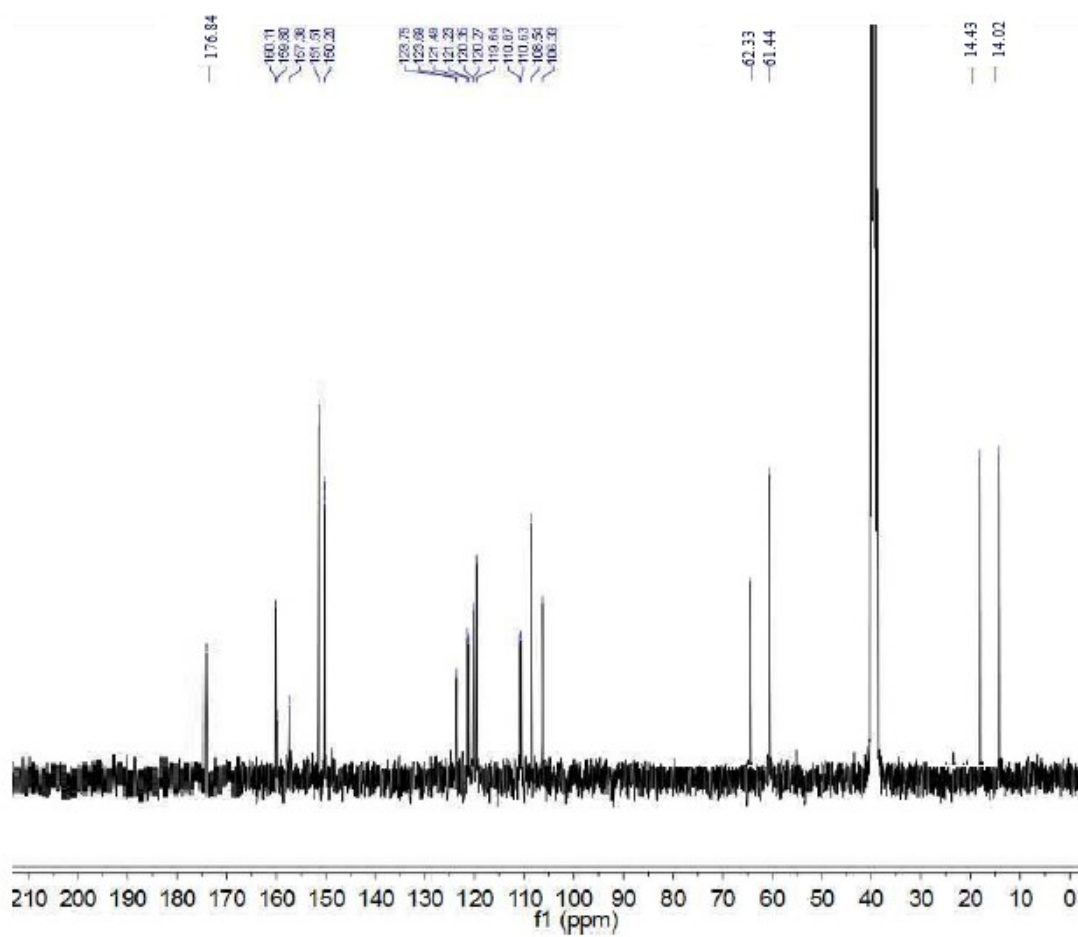


Figure S 10:  $^{13}\text{C}$  NMR spectrum of compound 3e

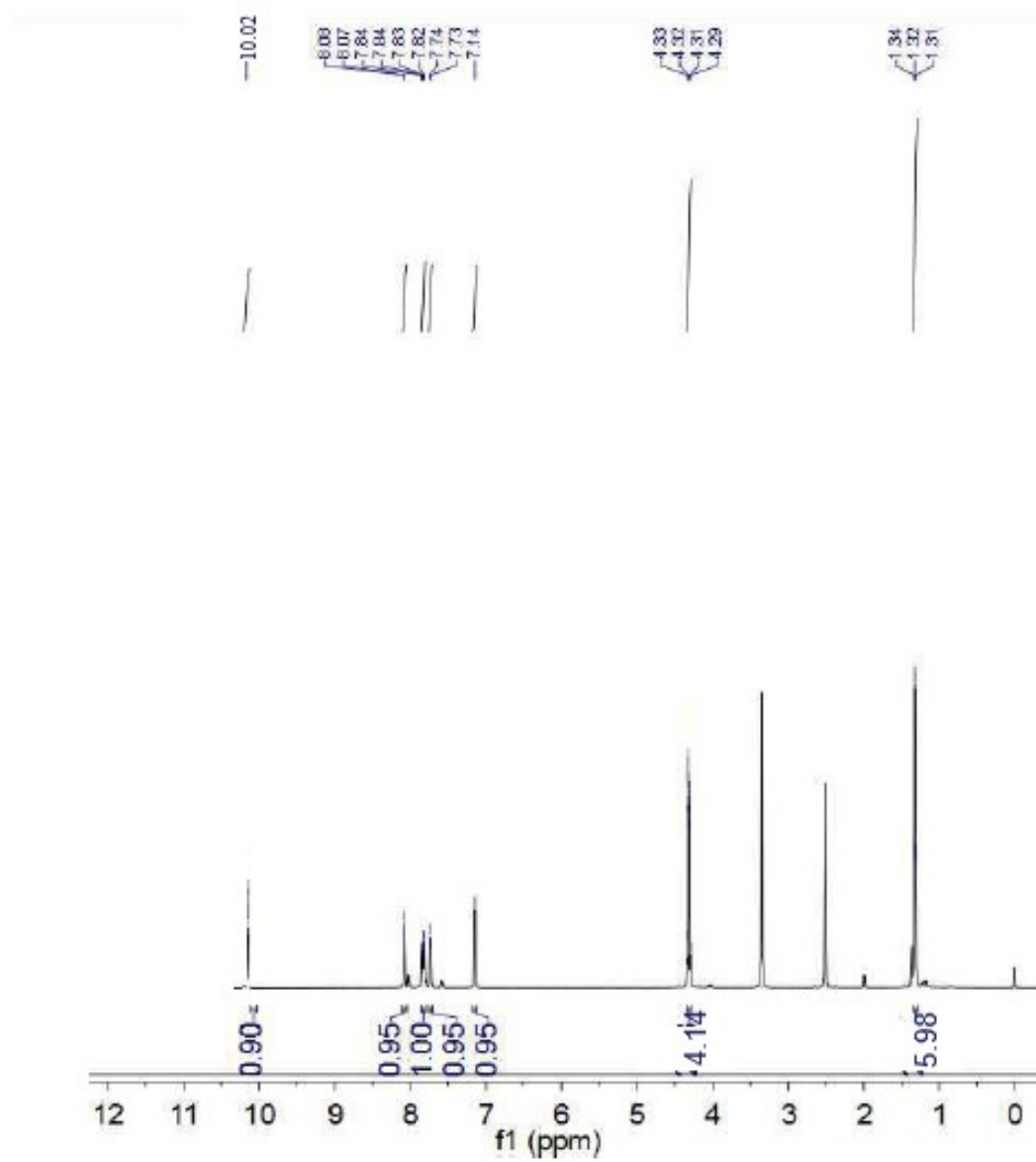


Figure S 11:  $^1\text{H}$  NMR spectrum of compound 3f

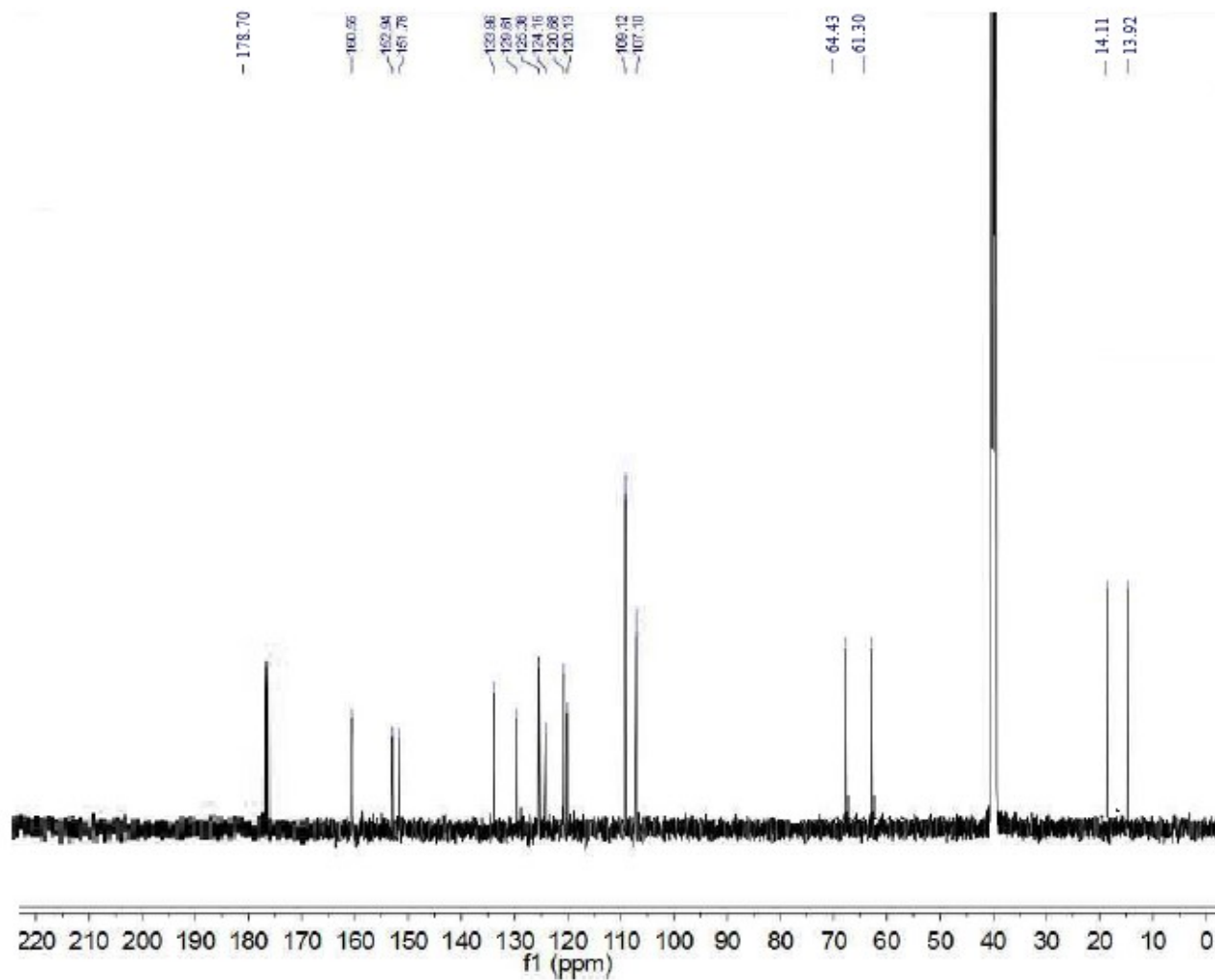


Figure S 12:  $^{13}\text{C}$  NMR spectrum of compound 3f

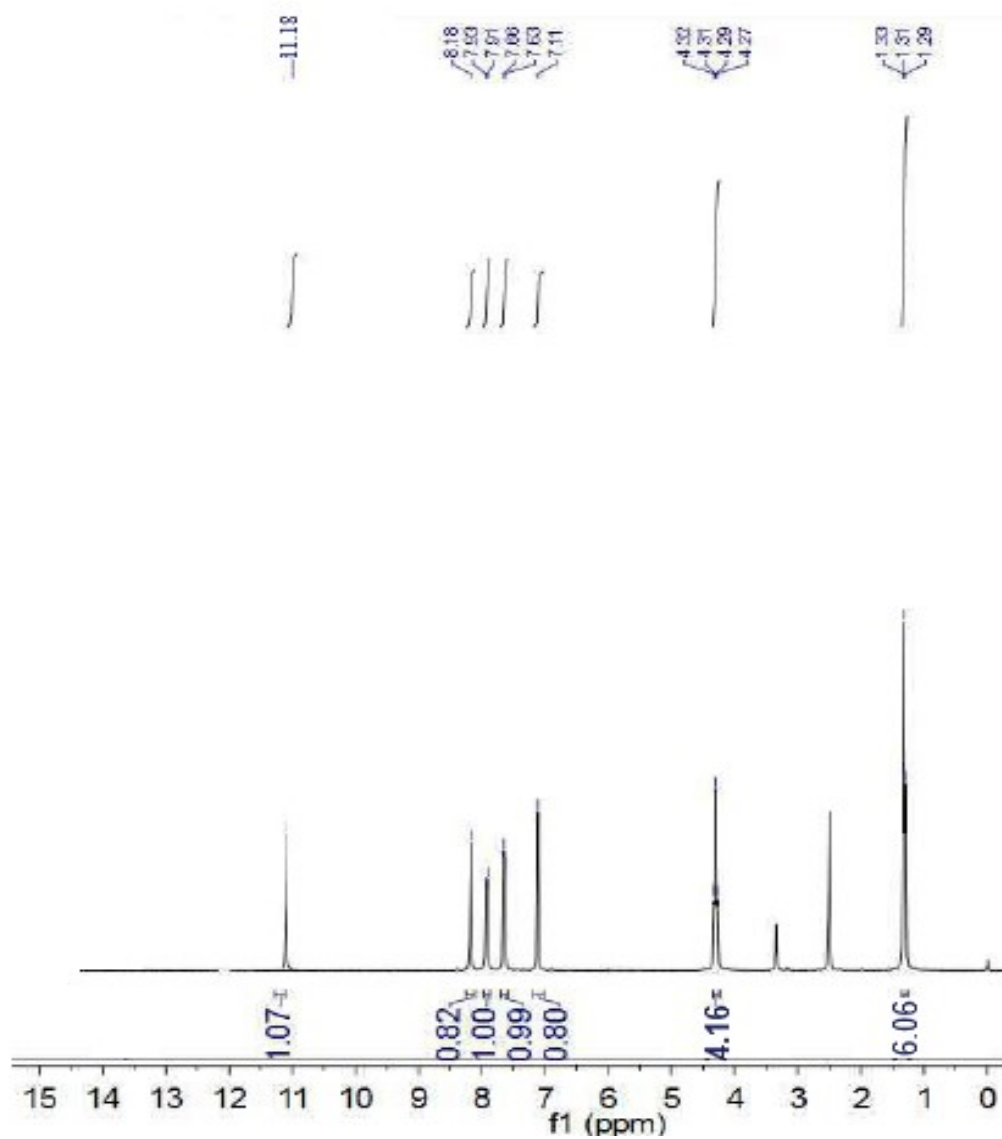


Figure S 13:  $^1\text{H}$  NMR spectrum of compound 3g

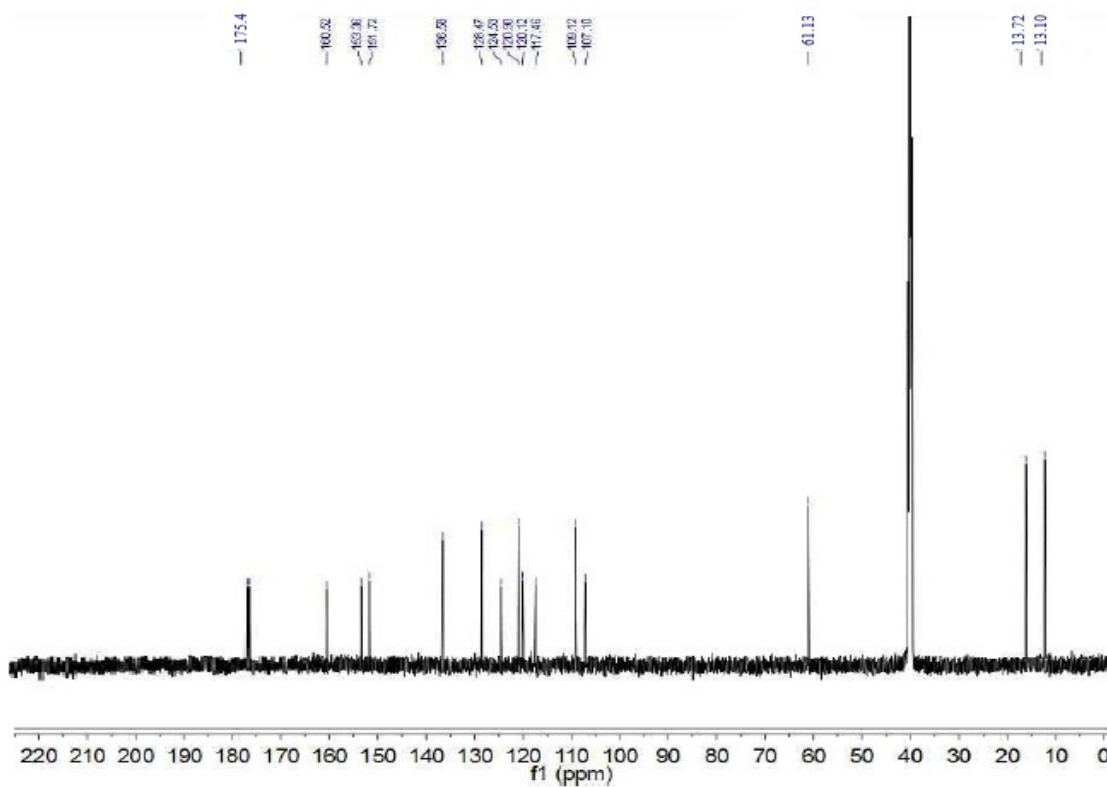


Figure S 14:  $^{13}\text{C}$  NMR spectrum of compound 3g

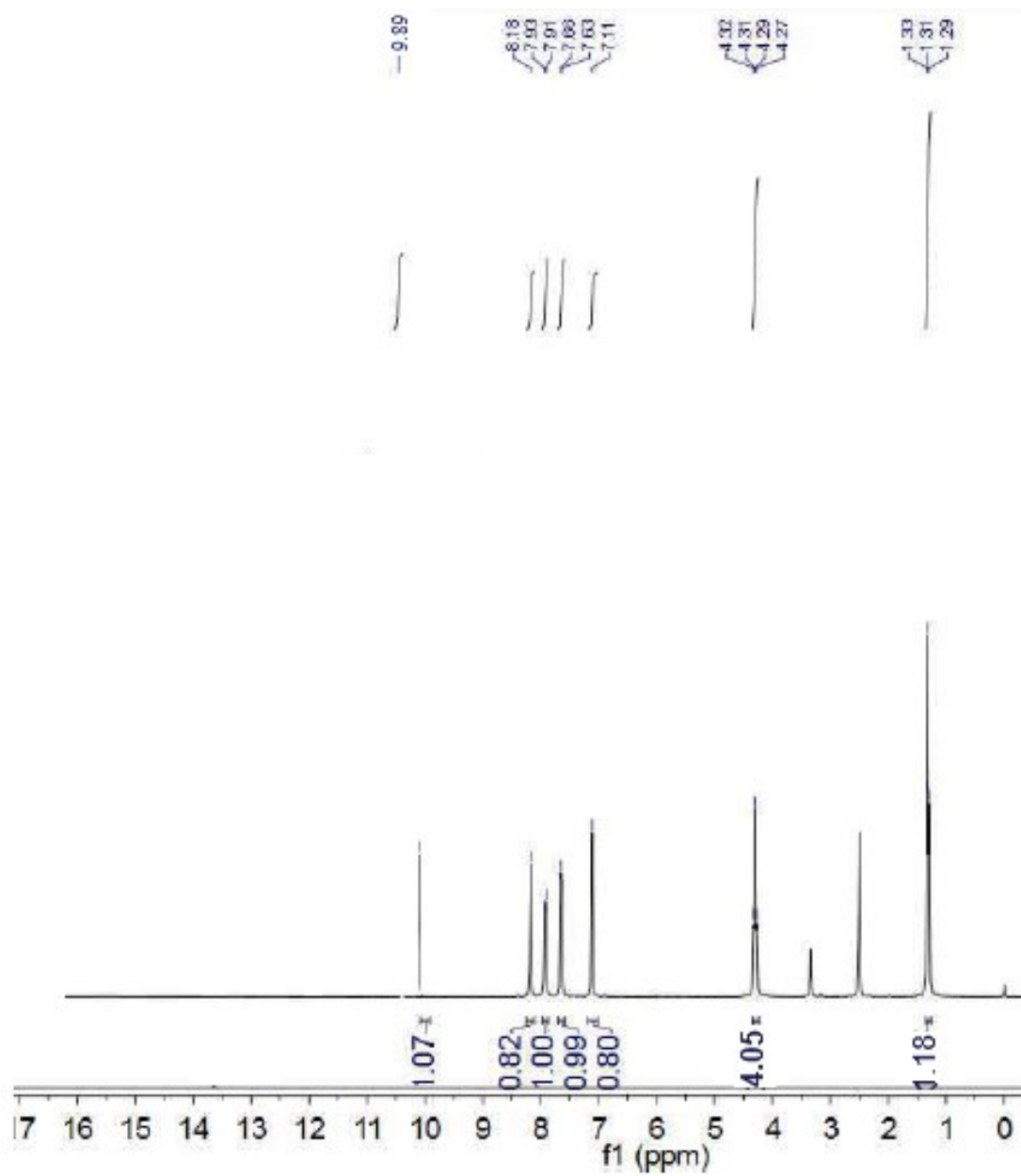


Figure S 15:  $^1\text{H}$  NMR spectrum of compound 3h

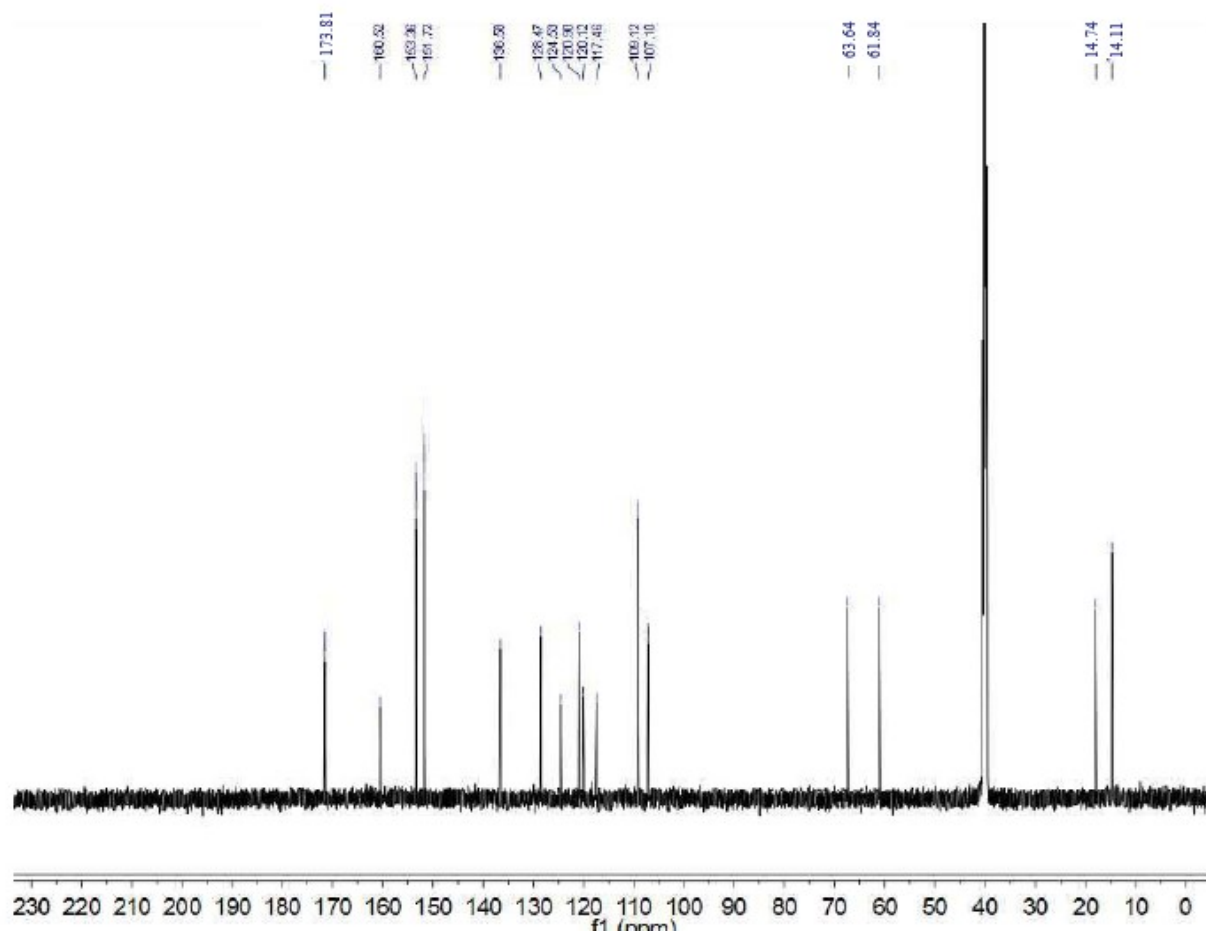


Figure S 16:  $^{13}\text{C}$  NMR spectrum of compound 3h

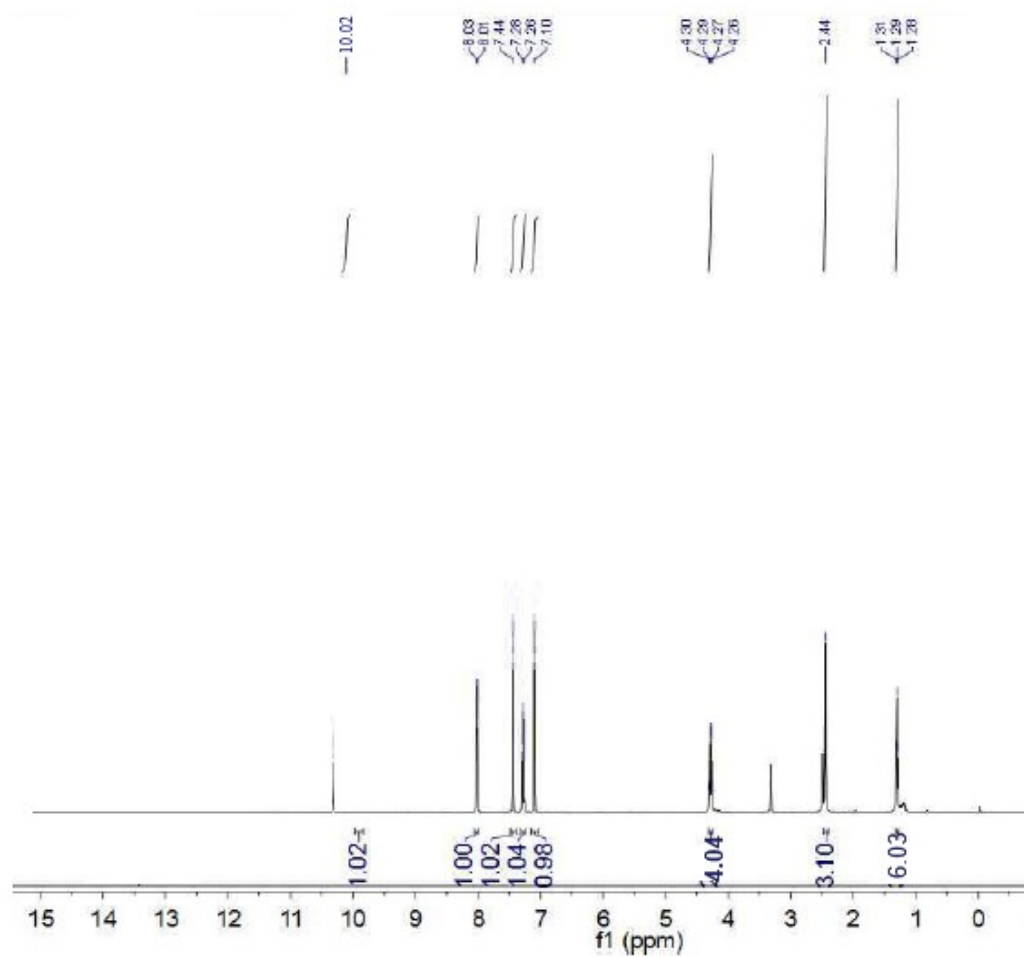


Figure S 17:  $^1\text{H}$  NMR spectrum of compound 3i

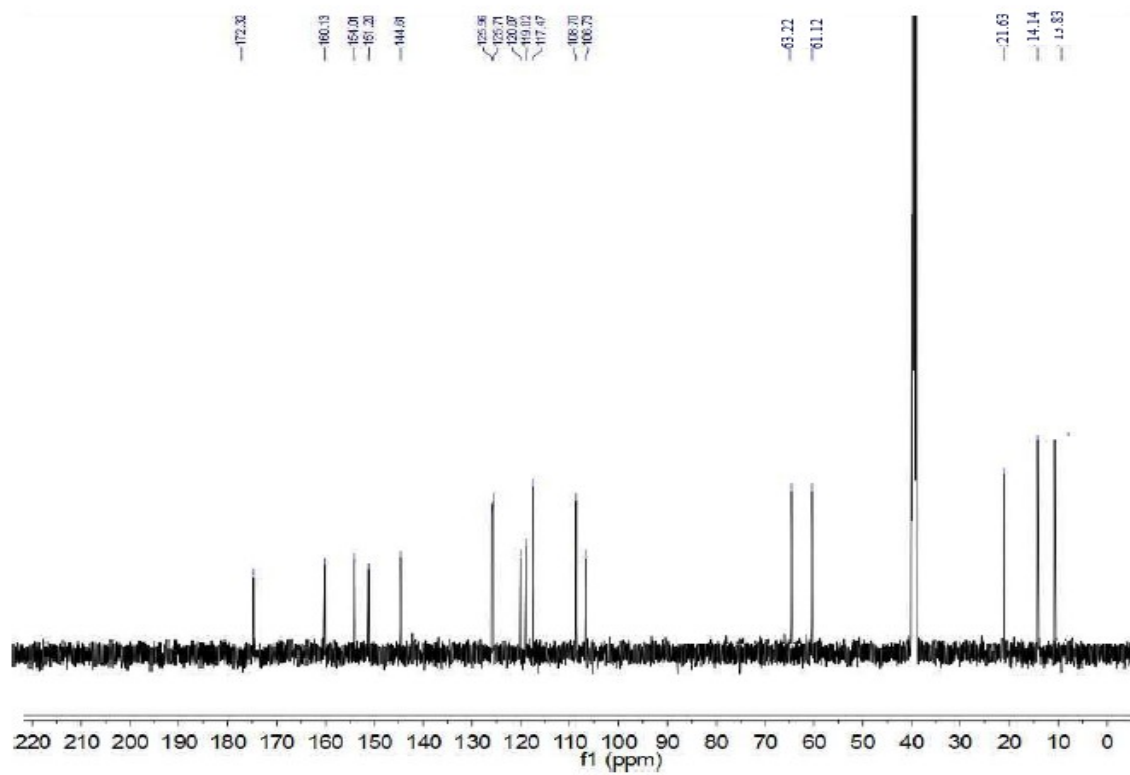


Figure S 18:  $^{13}\text{C}$  NMR spectrum of compound 3i

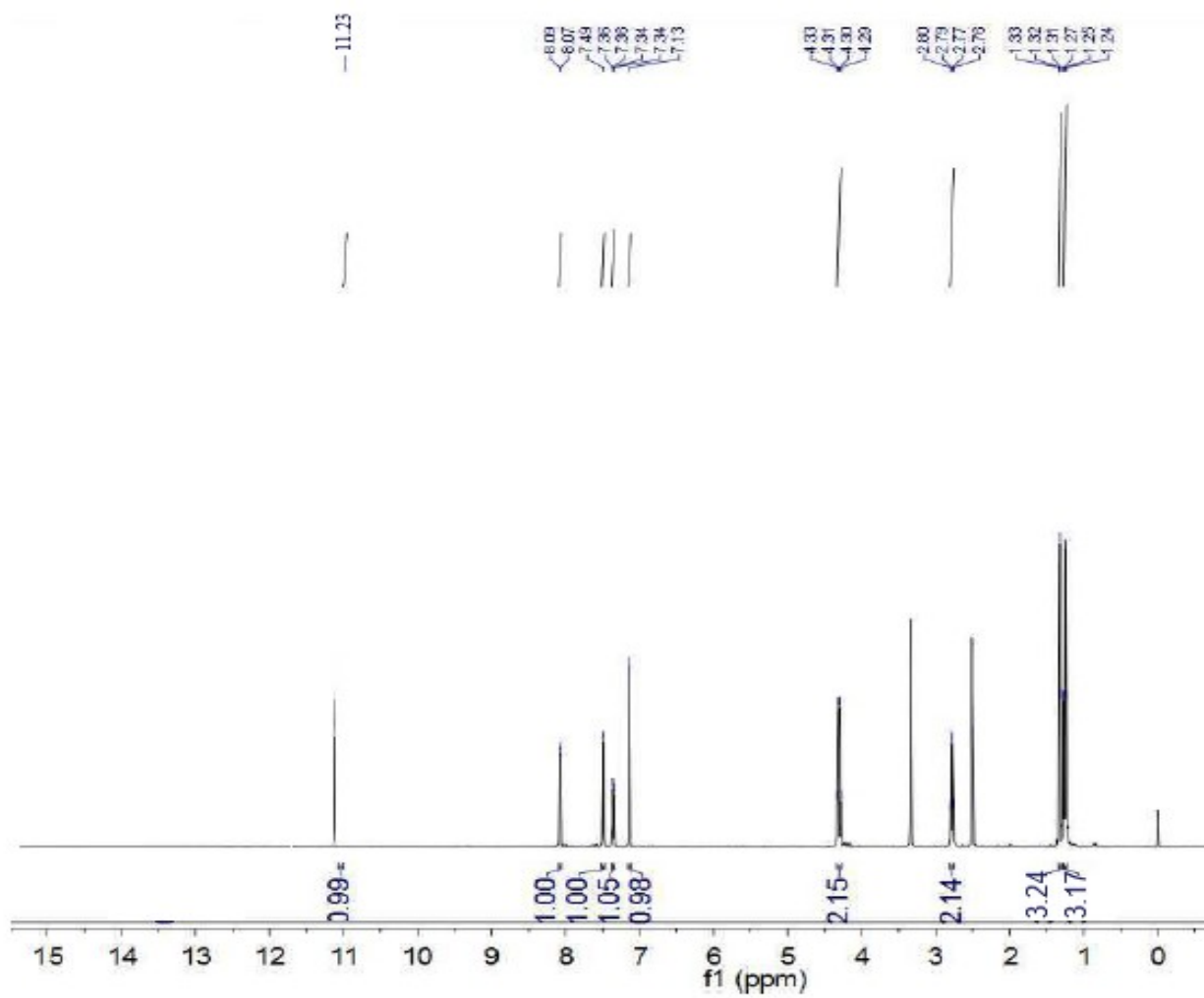


Figure S 19:  $^1\text{H}$  NMR spectrum of compound 3j

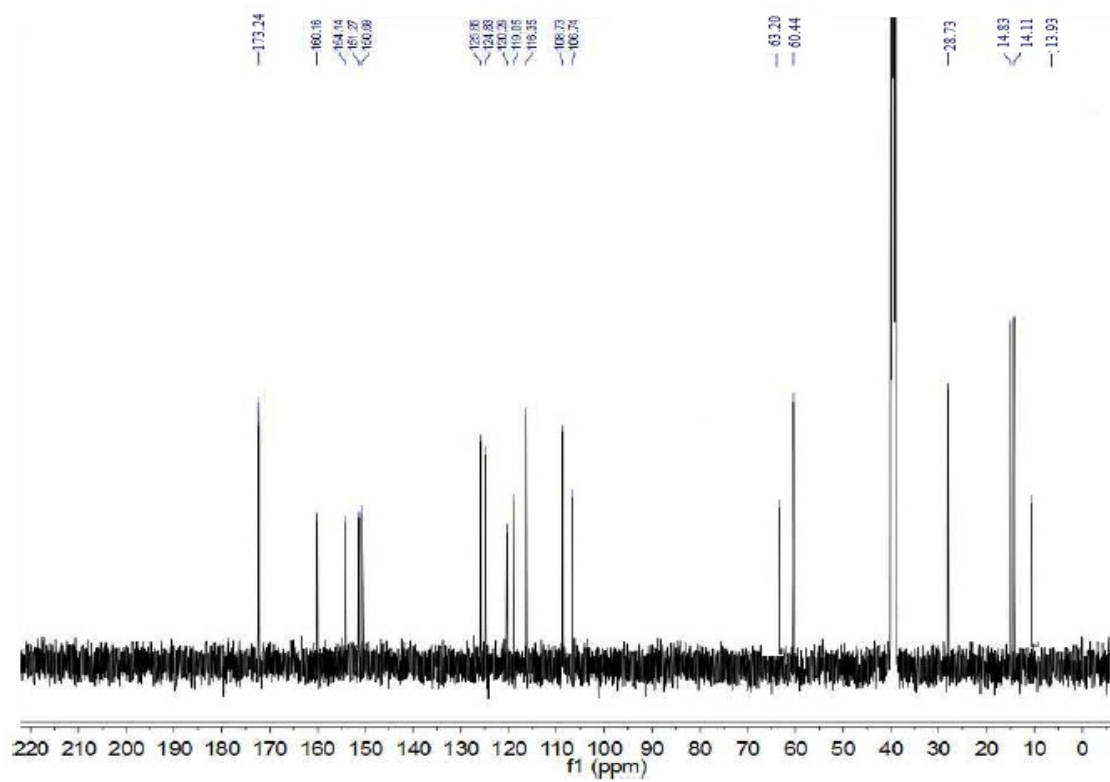


Figure S 20:  $^{13}\text{C}$  NMR spectrum of compound 3j

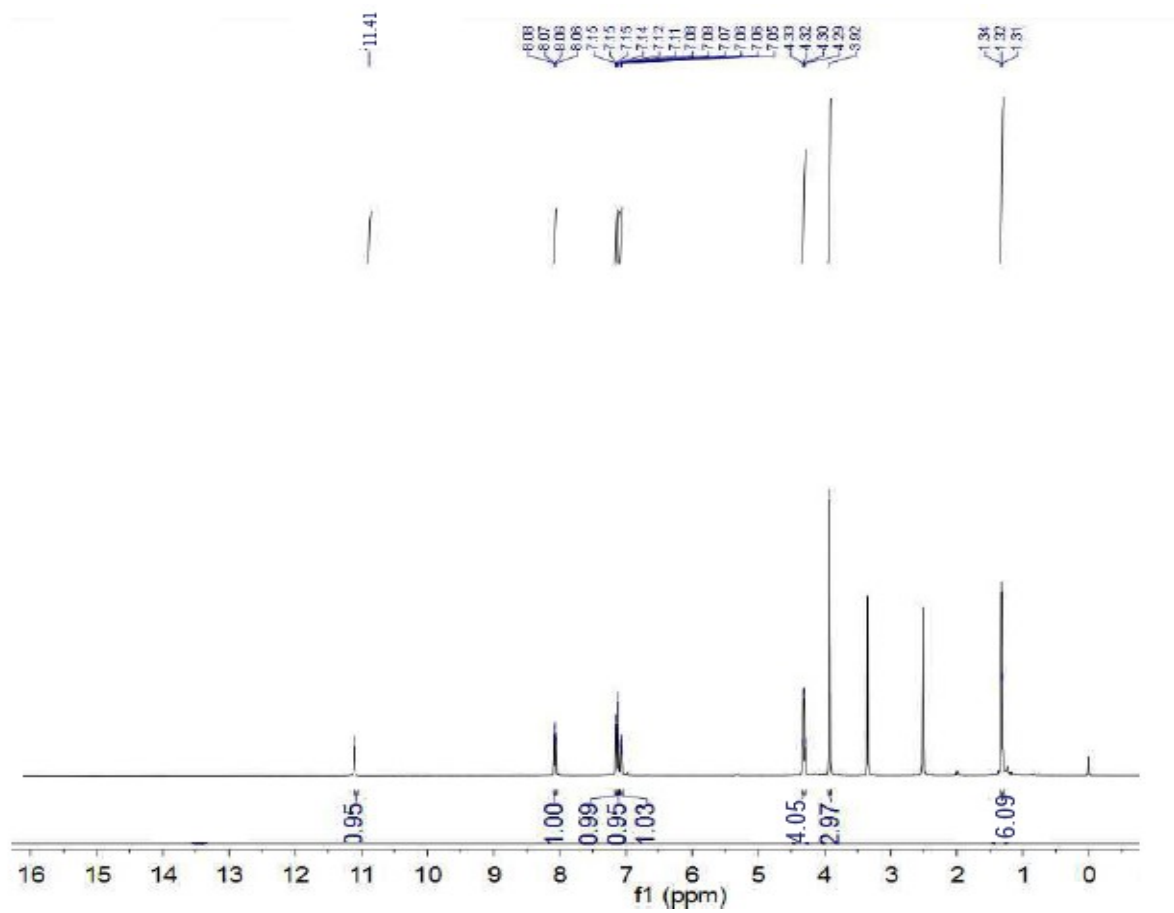


Figure S 21:  $^1\text{H}$  NMR spectrum of compound 3k

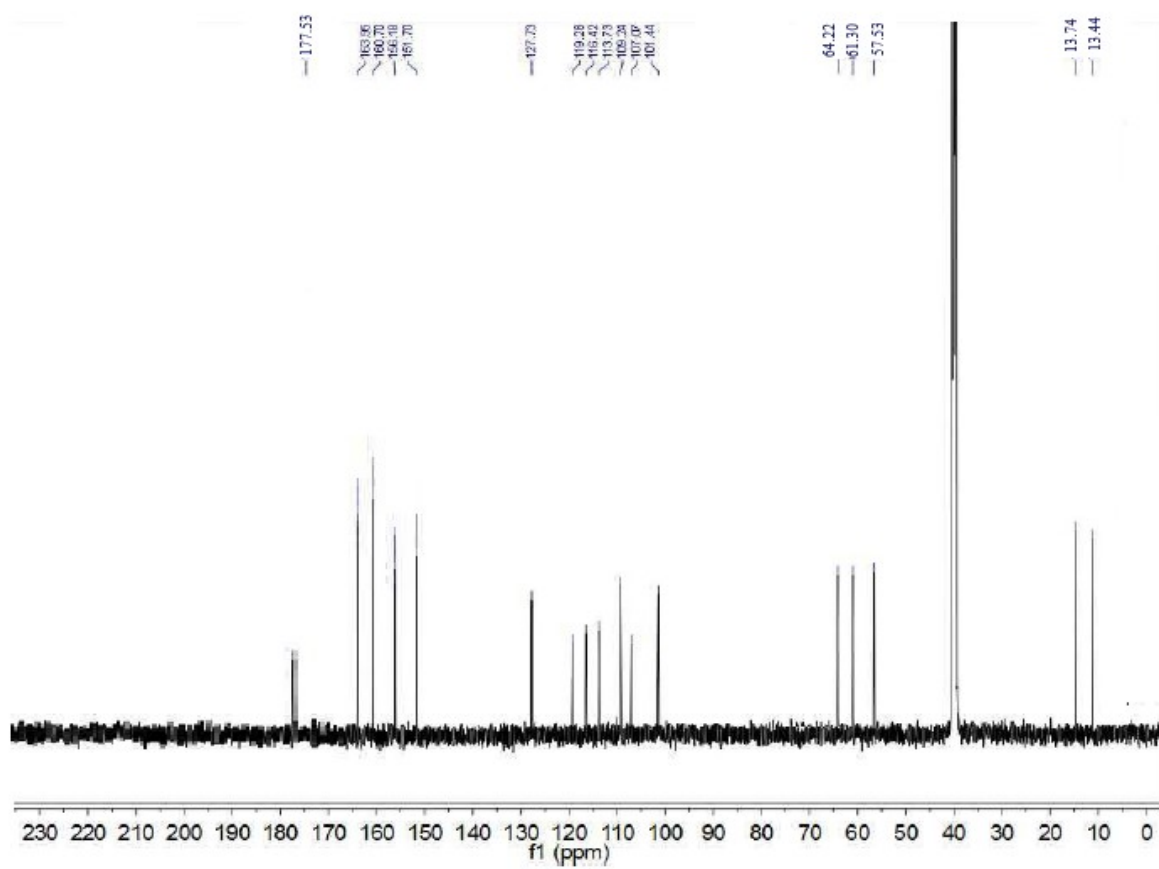


Figure S 22:  $^{13}\text{C}$  NMR spectrum of compound 3k

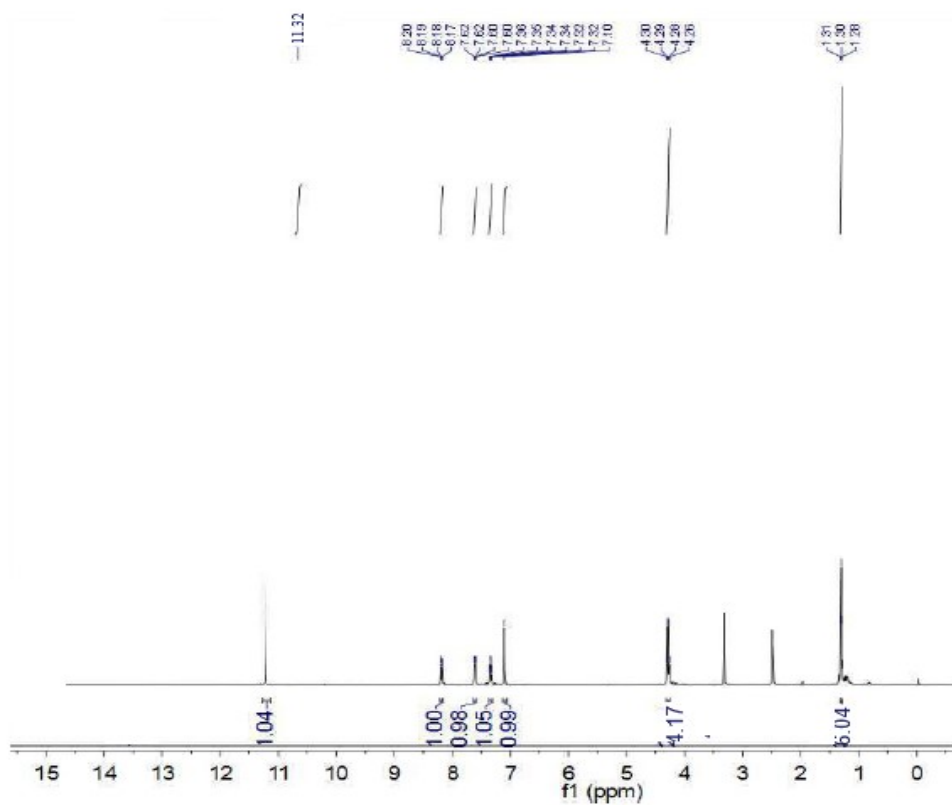


Figure S 23:  $^1\text{H}$  NMR spectrum of compound 31

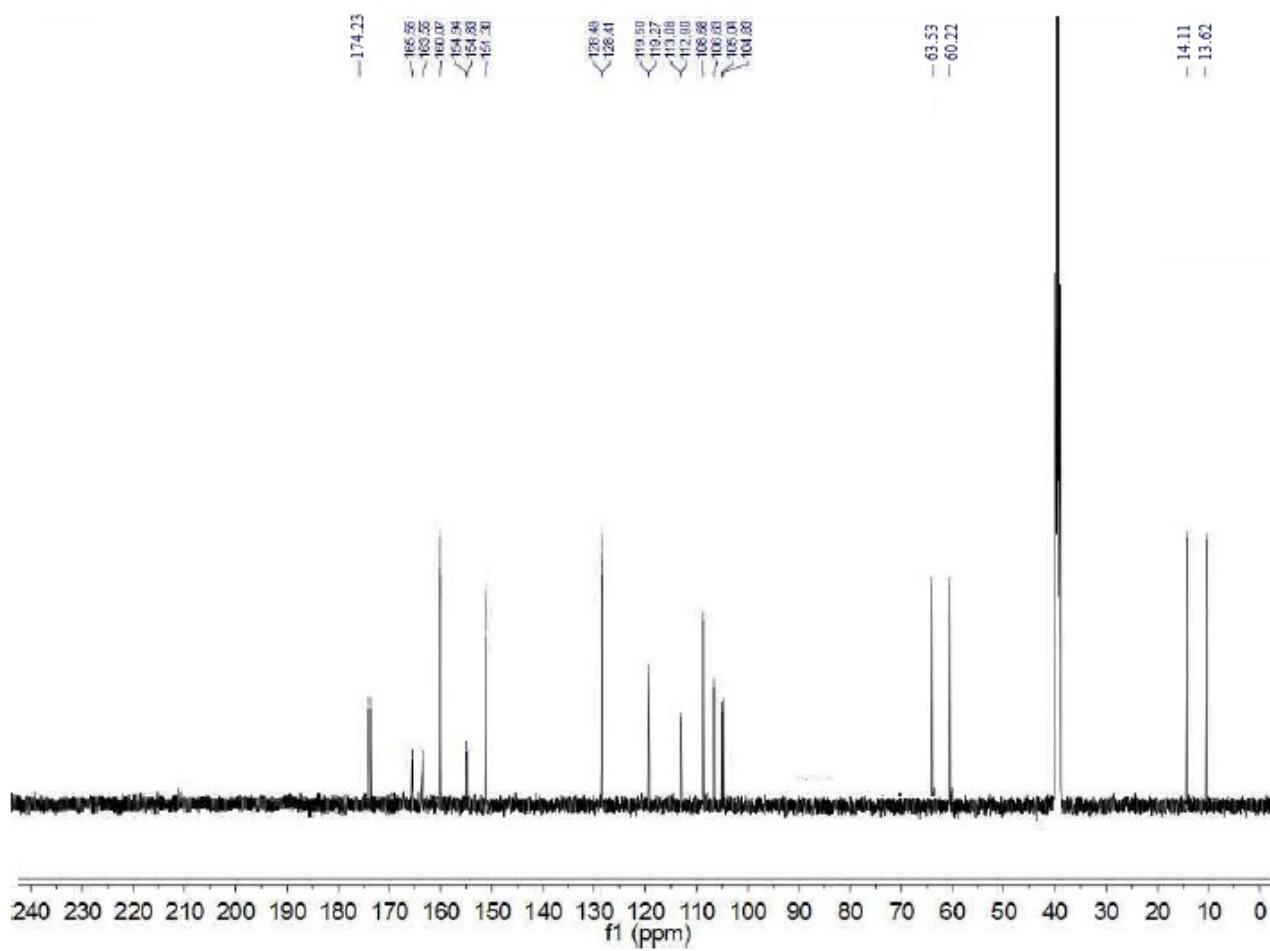


Figure S 24:  $^{13}\text{C}$  NMR spectrum of compound 31

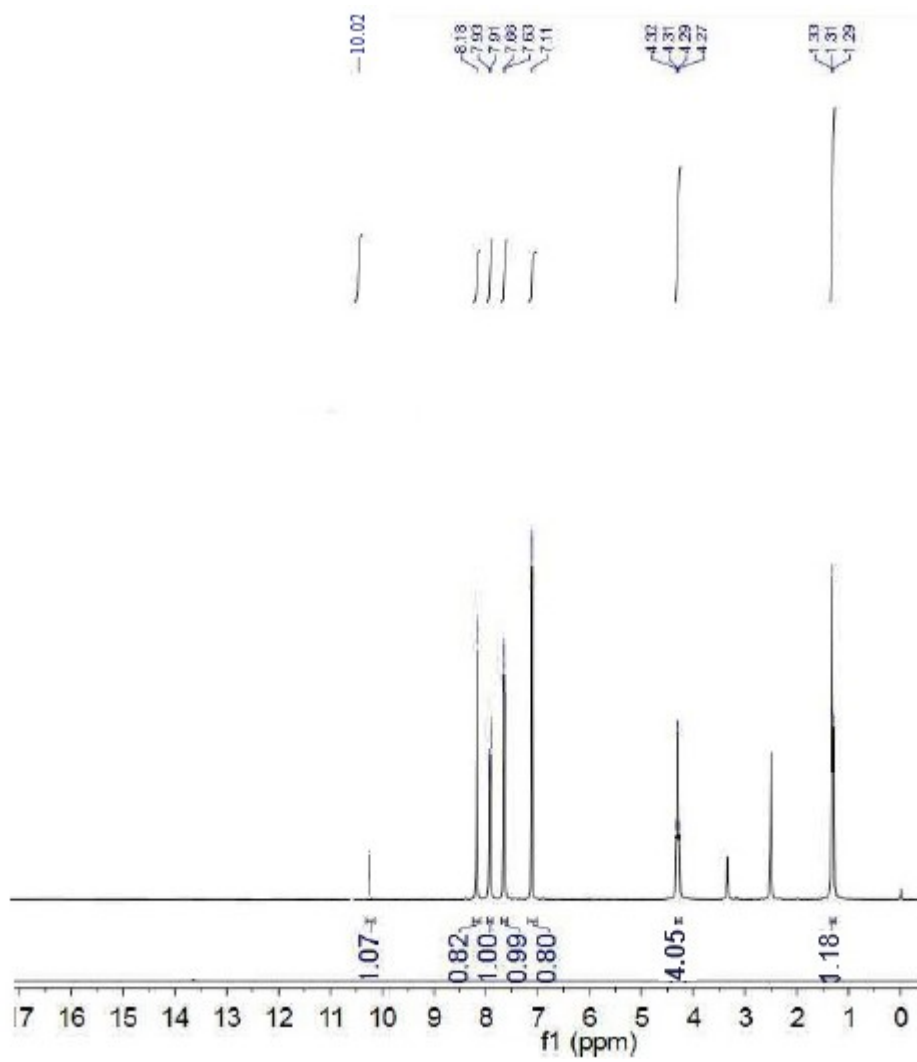


Figure S 25:  $^1\text{H}$  NMR spectrum of compound 3m

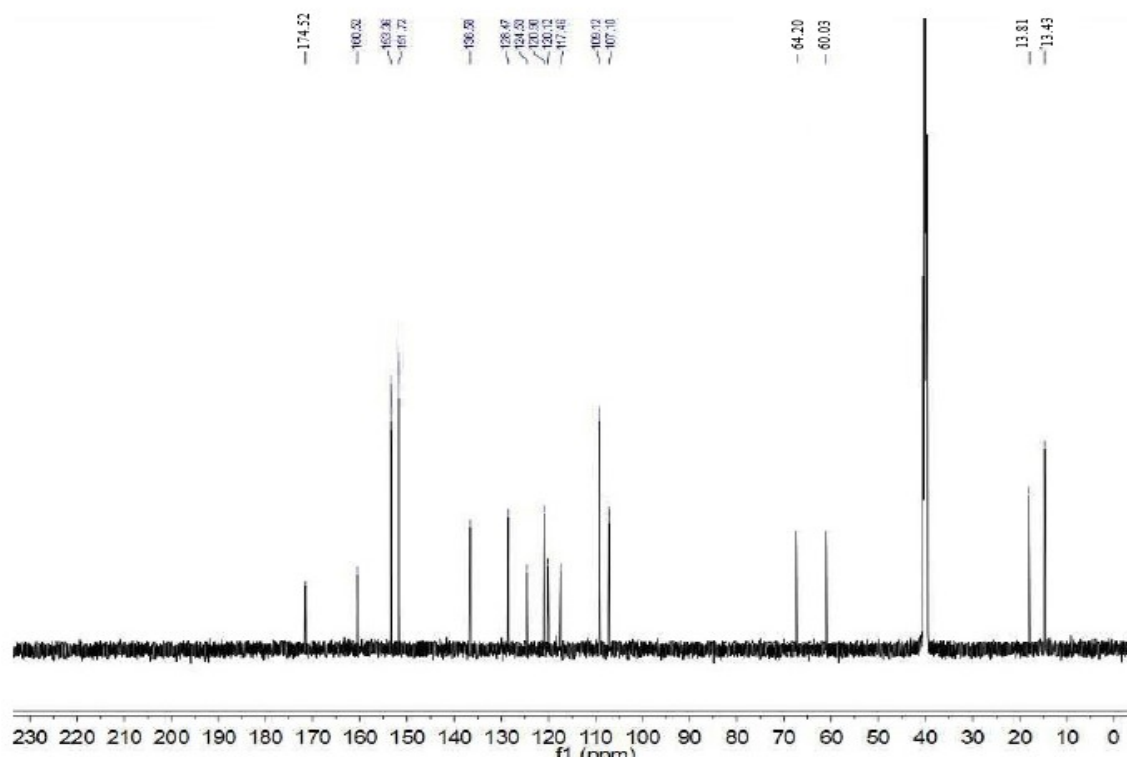


Figure S 26:  $^{13}\text{C}$  NMR spectrum of compound 3m

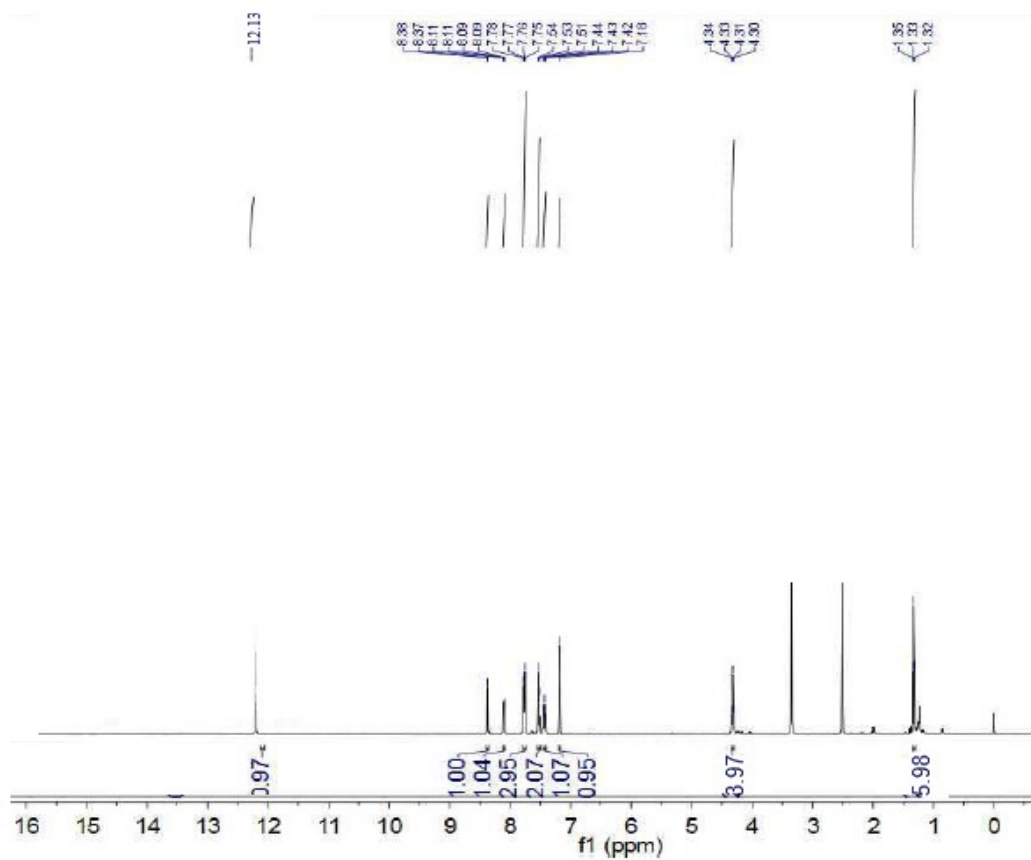


Figure S 27:  $^1\text{H}$  NMR spectrum of compound 3n

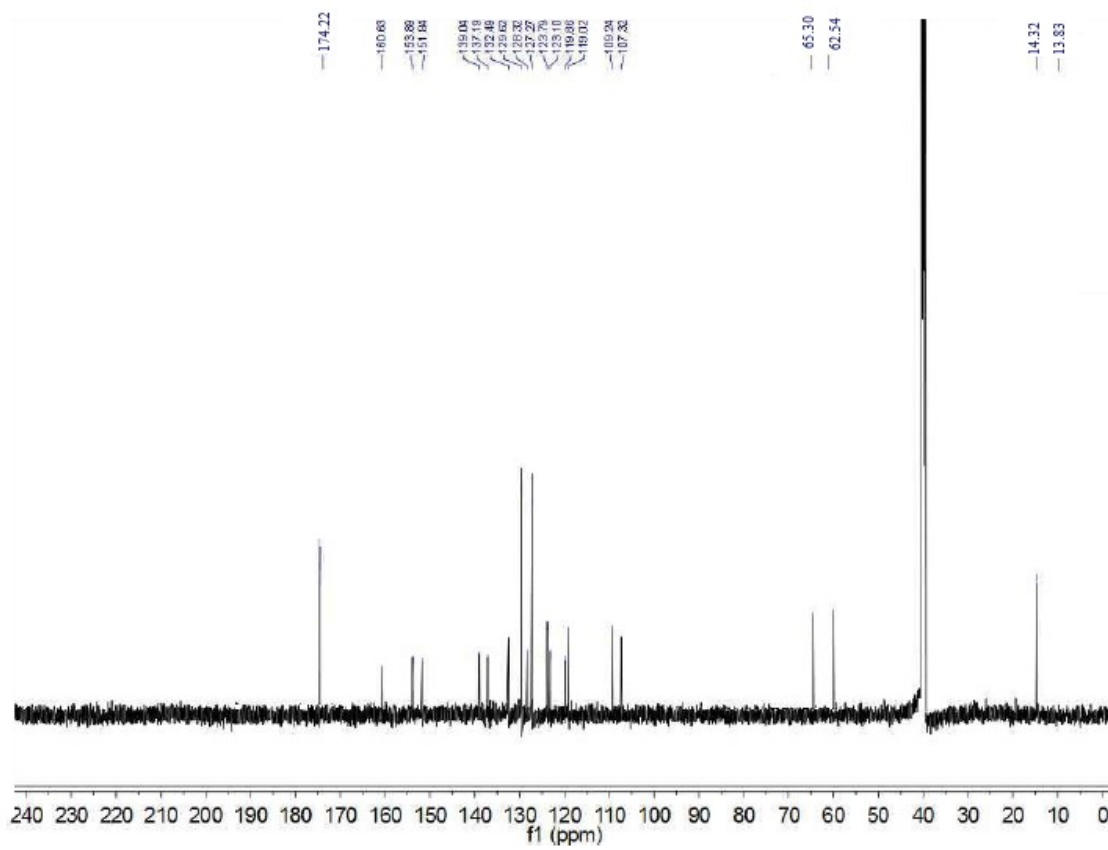


Figure S 28:  $^{13}\text{C}$  NMR spectrum of compound 3n