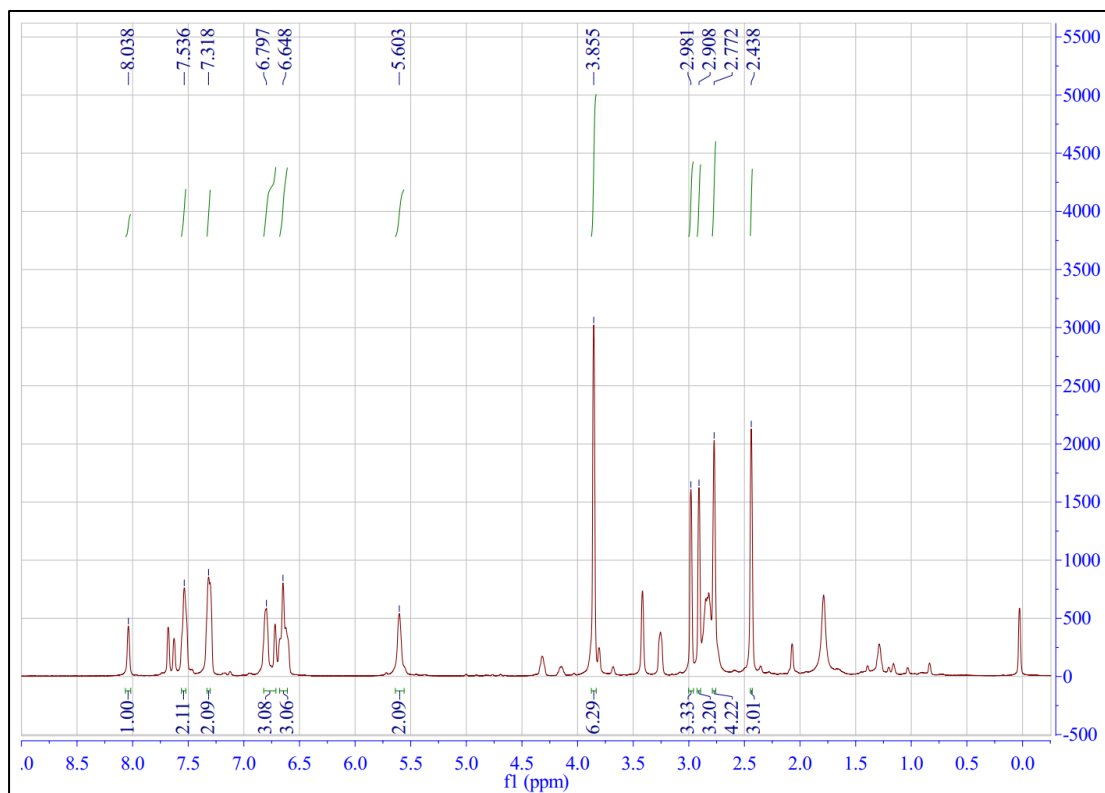


Figure S1. ^1H -NMR, ^{13}C -NMR, HR-ESI-MS spectrum of **4a**



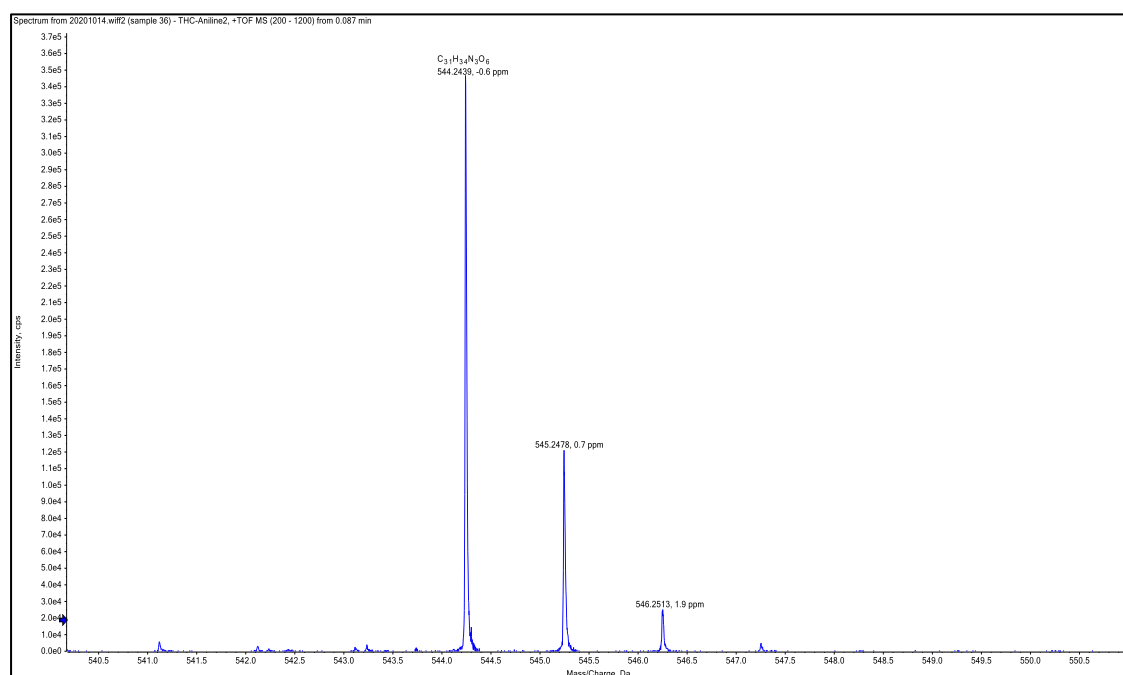
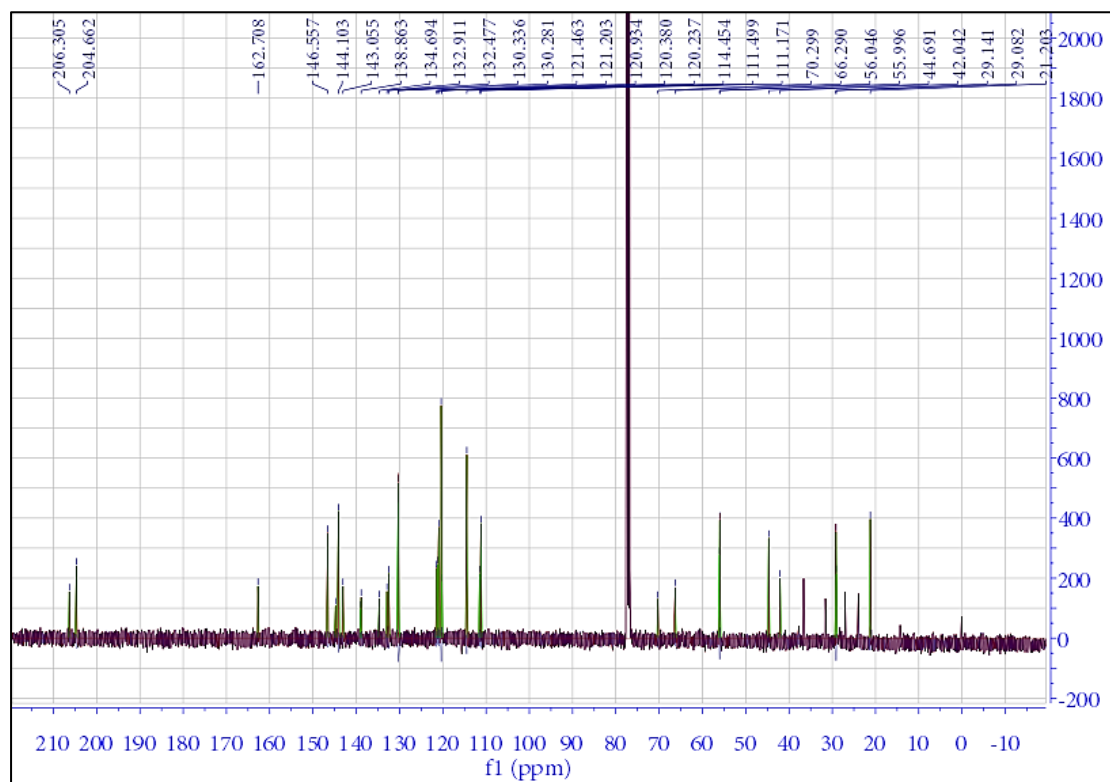
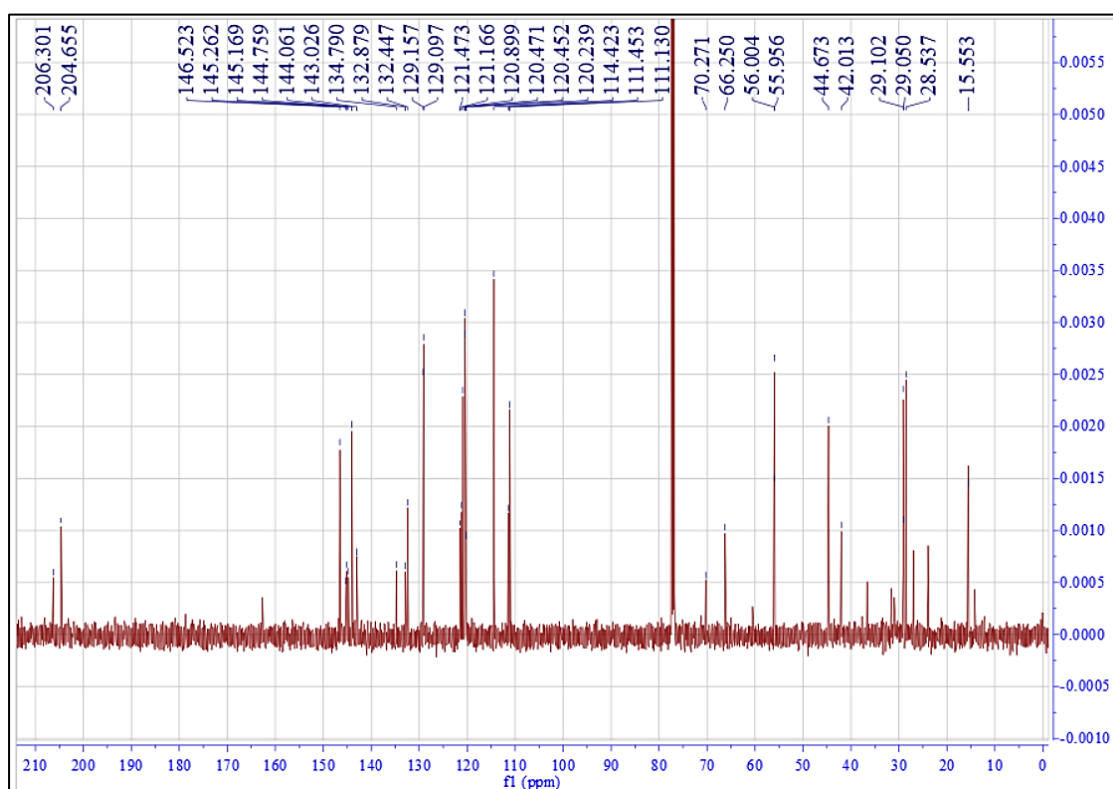
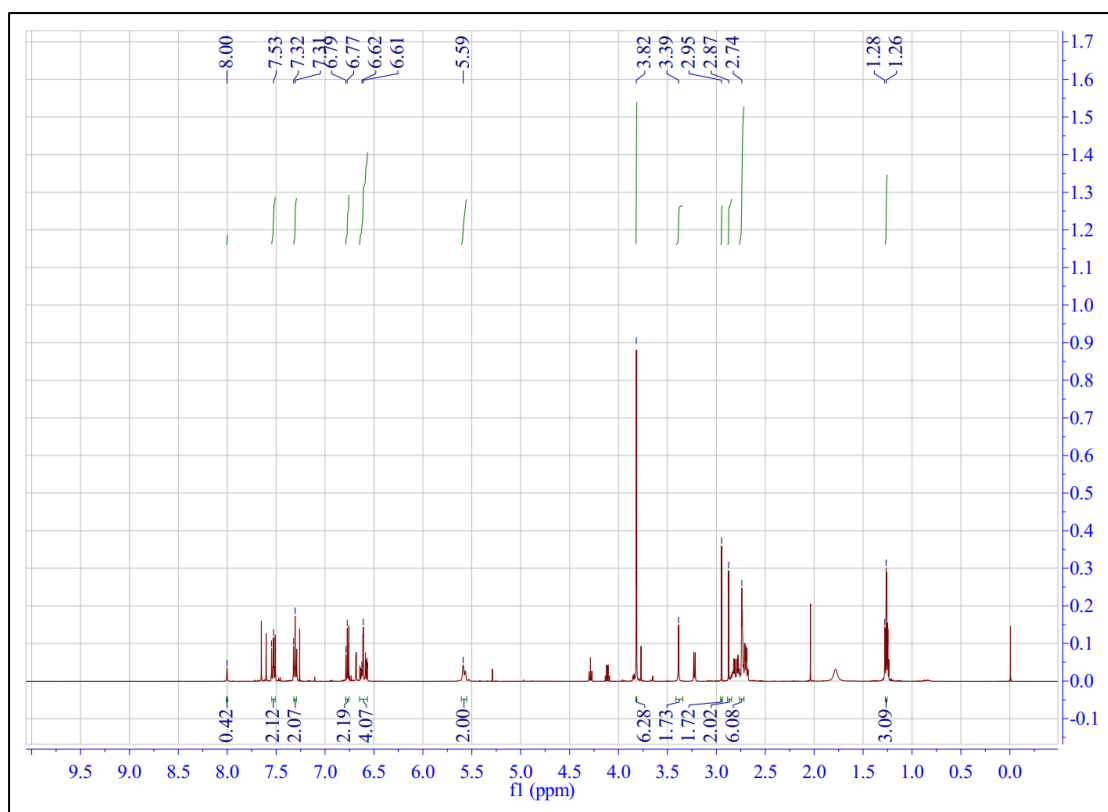


Figure S2. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4b**



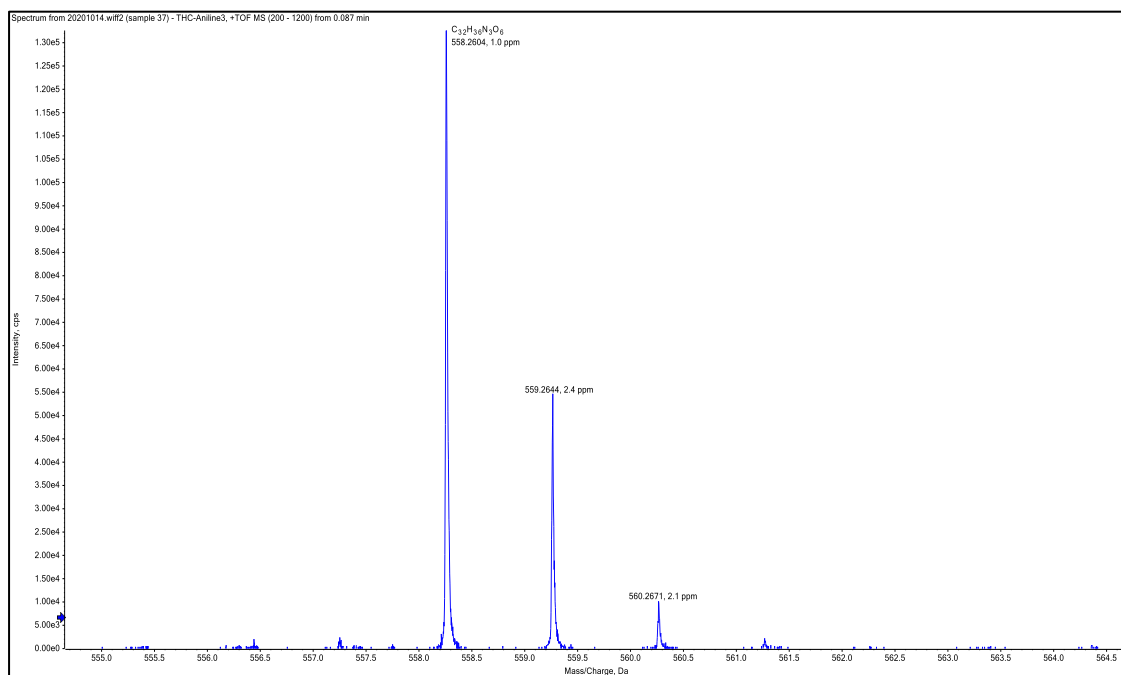
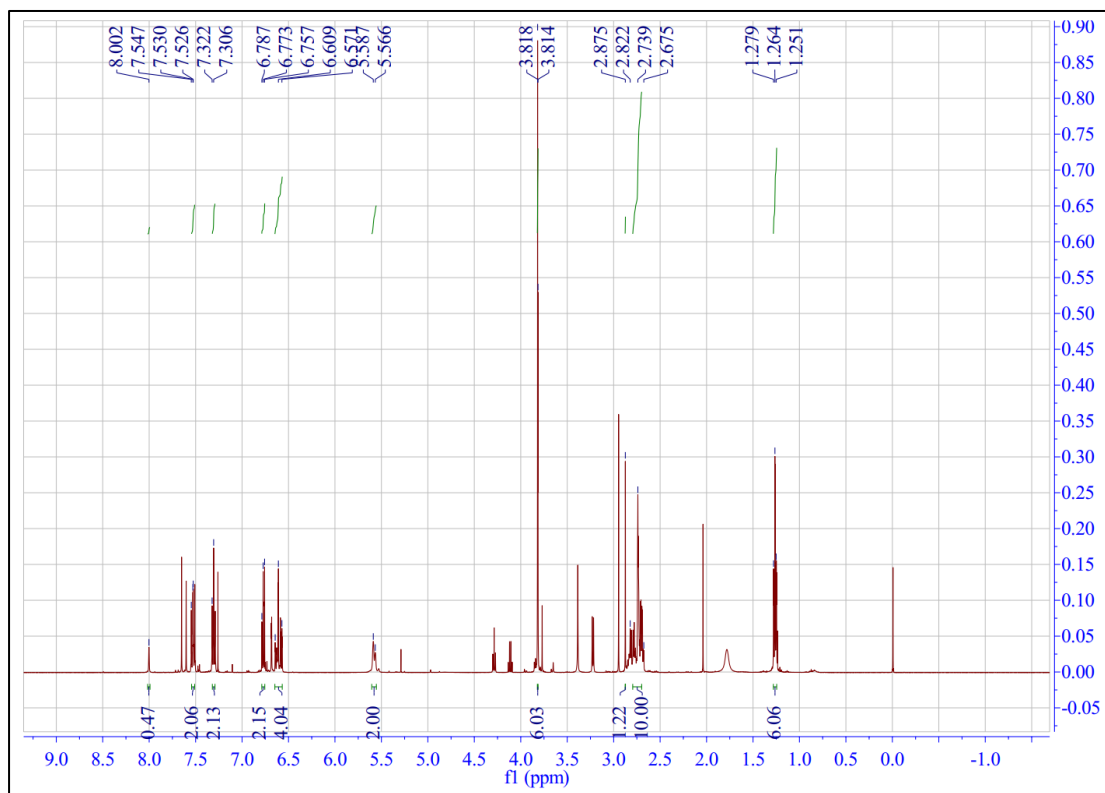


Figure S3. ^1H -NMR, ^{13}C -NMR, HR-ESI-MS spectrum of **4c**



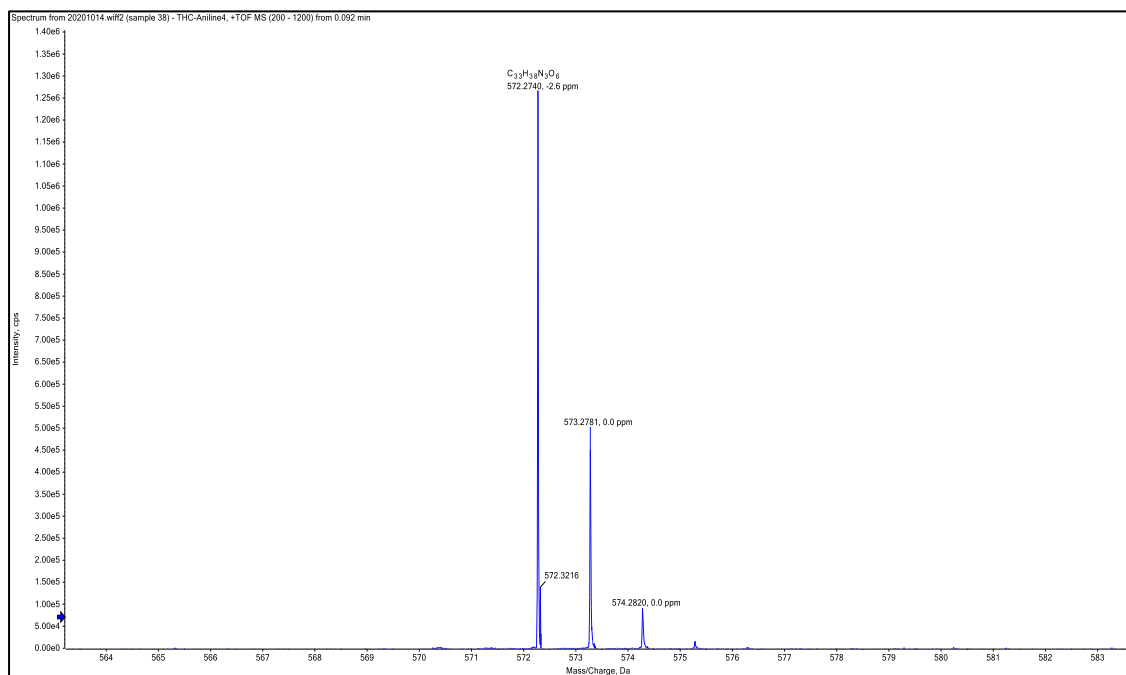
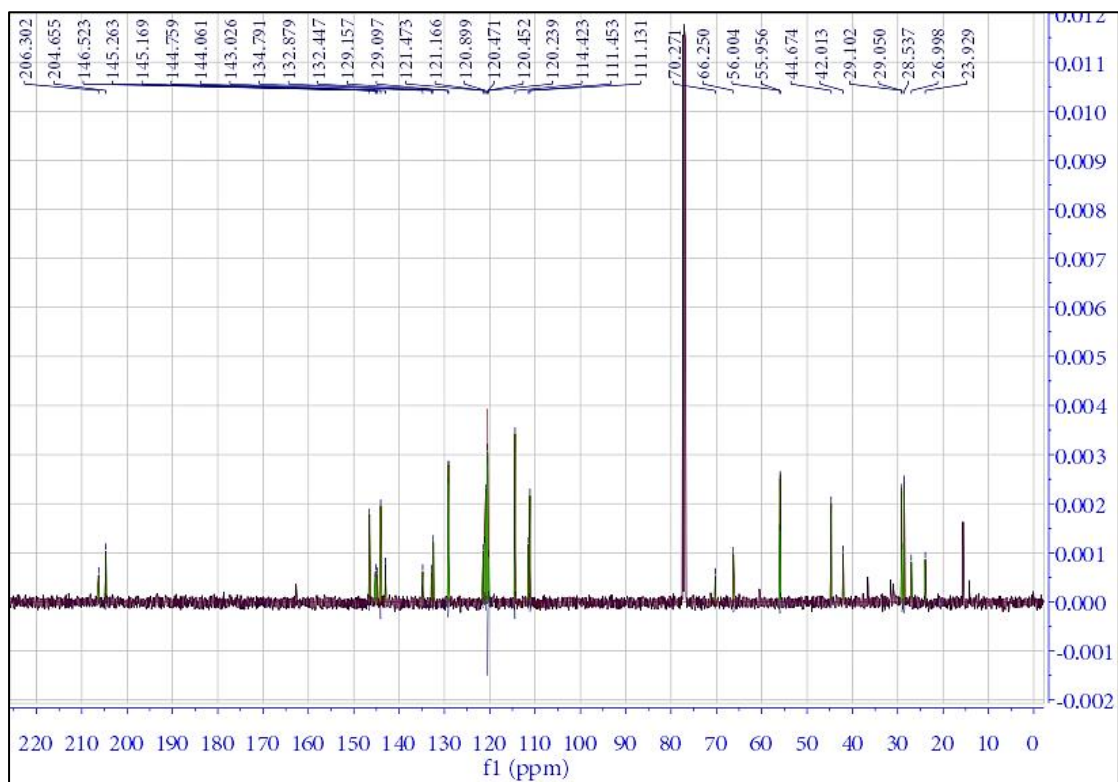
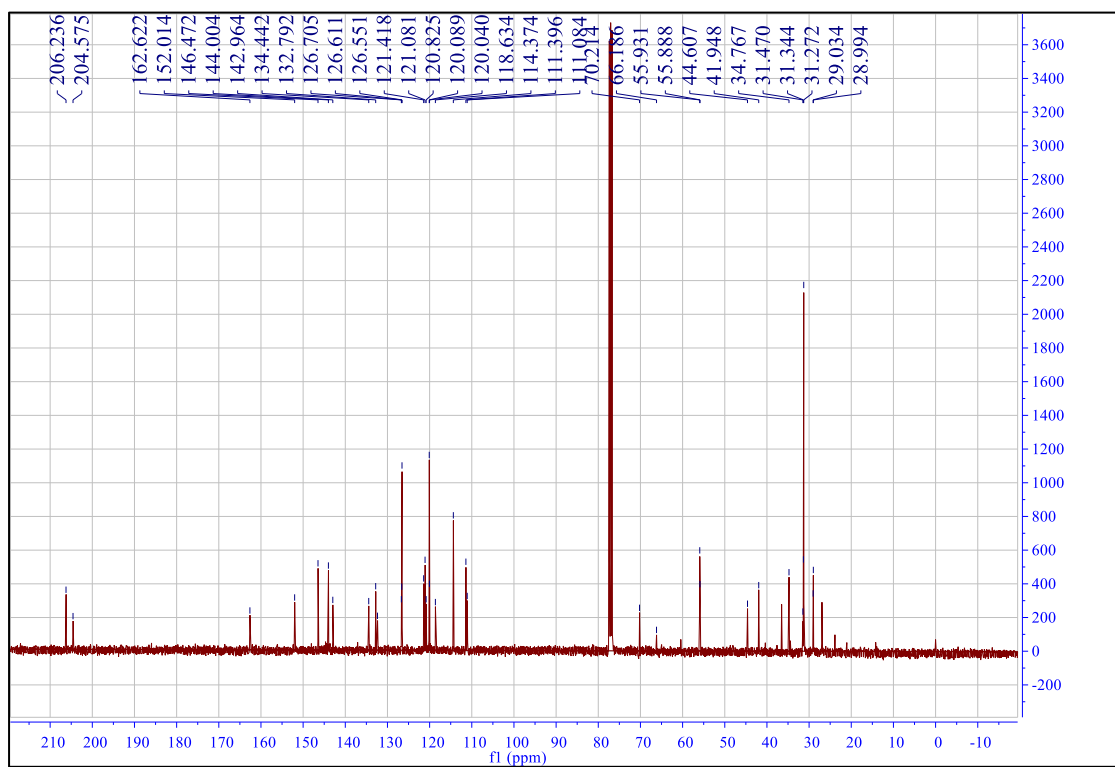
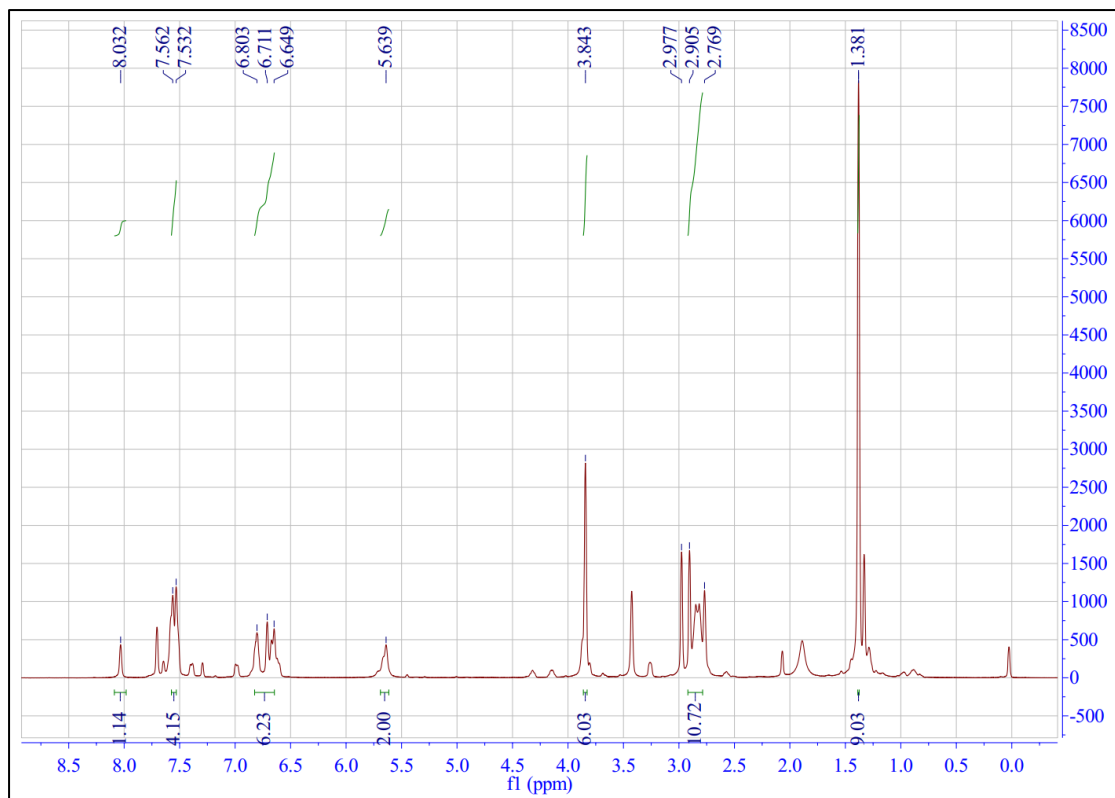


Figure S4. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4d**



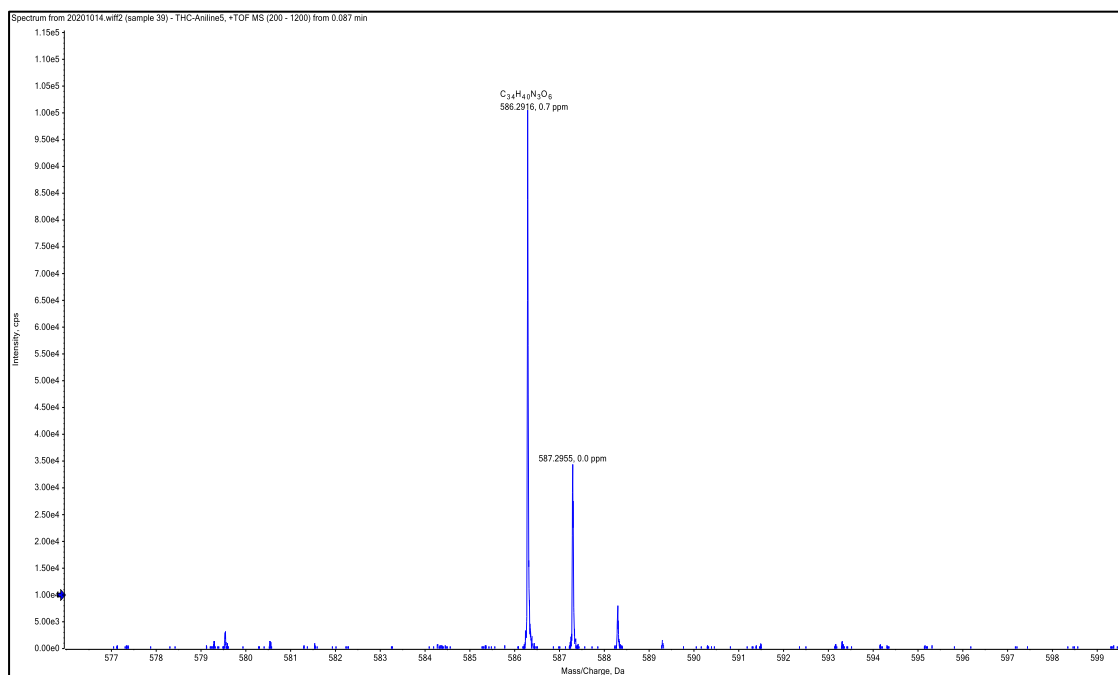
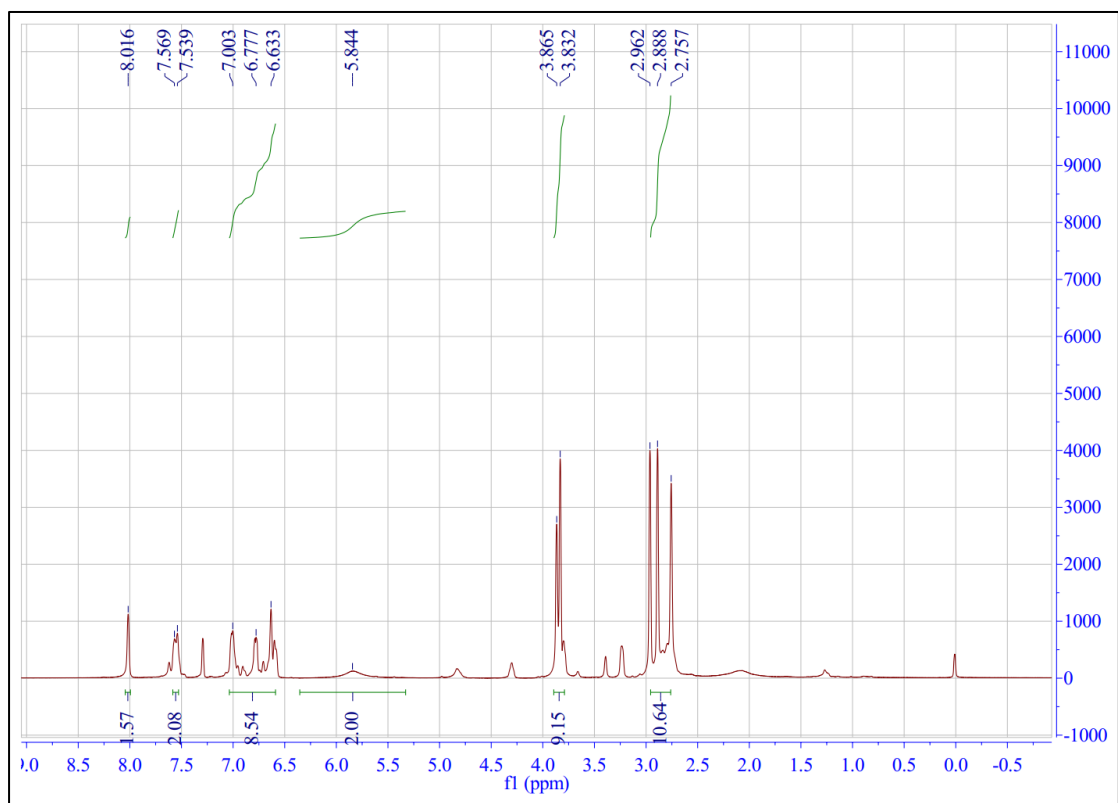


Figure S5. ^1H -NMR, ^{13}C -NMR, HR-ESI-MS spectrum of **4e**



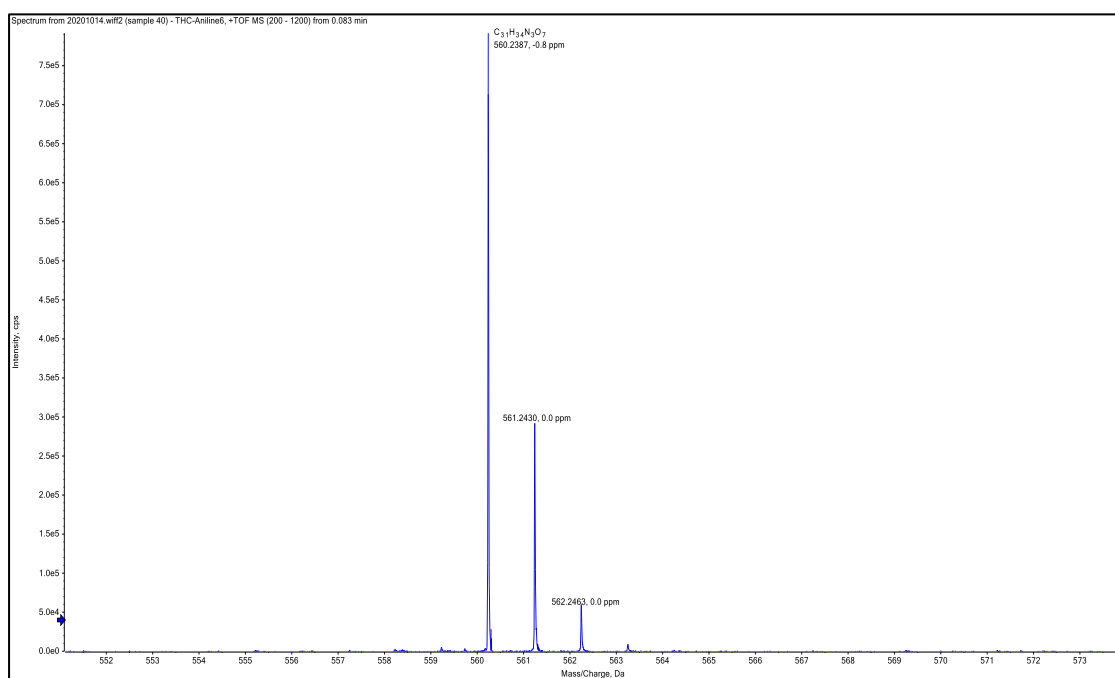
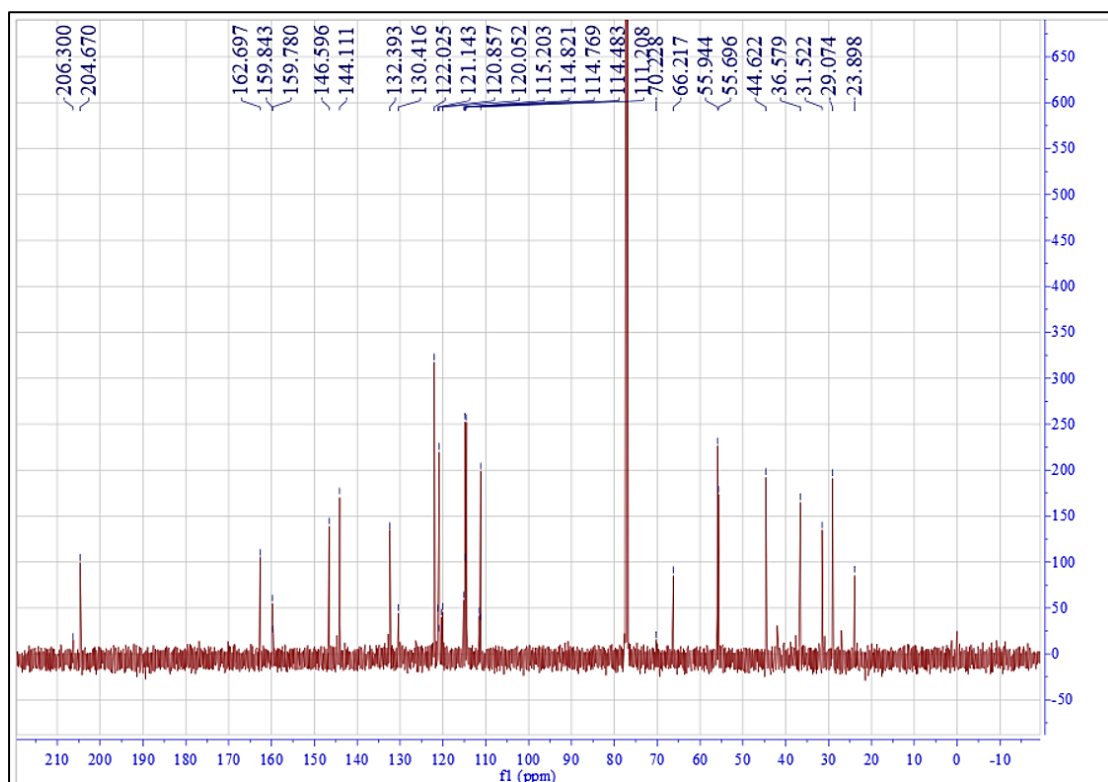
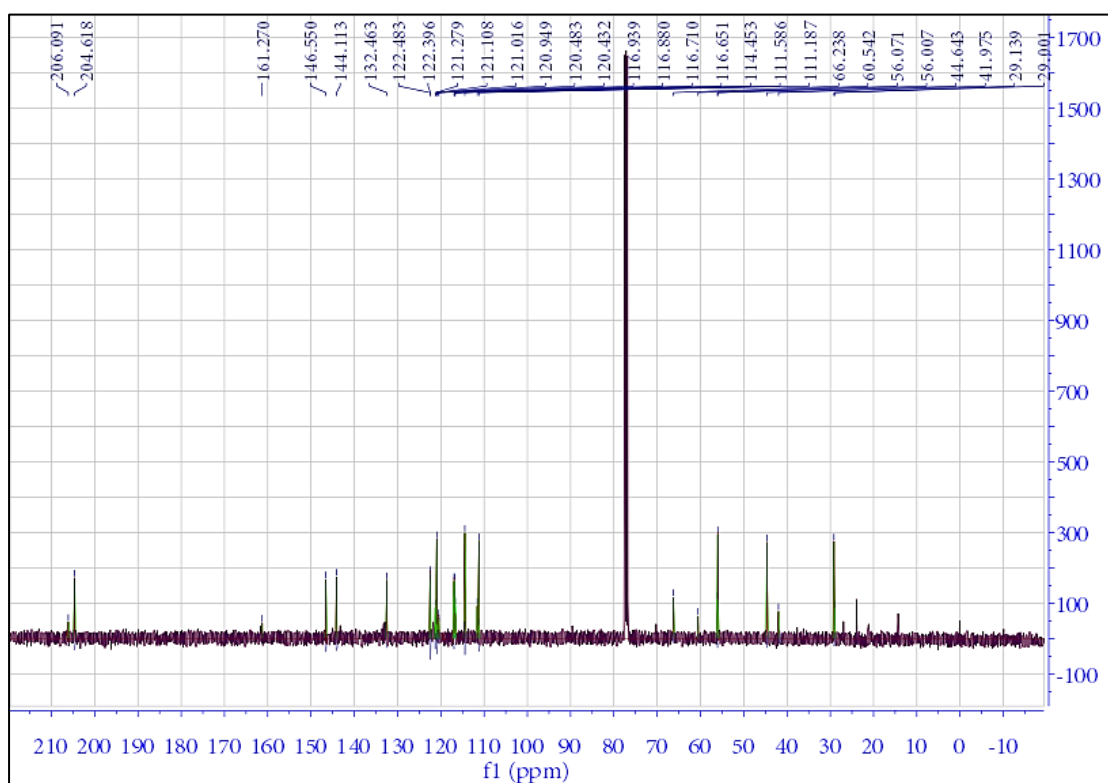
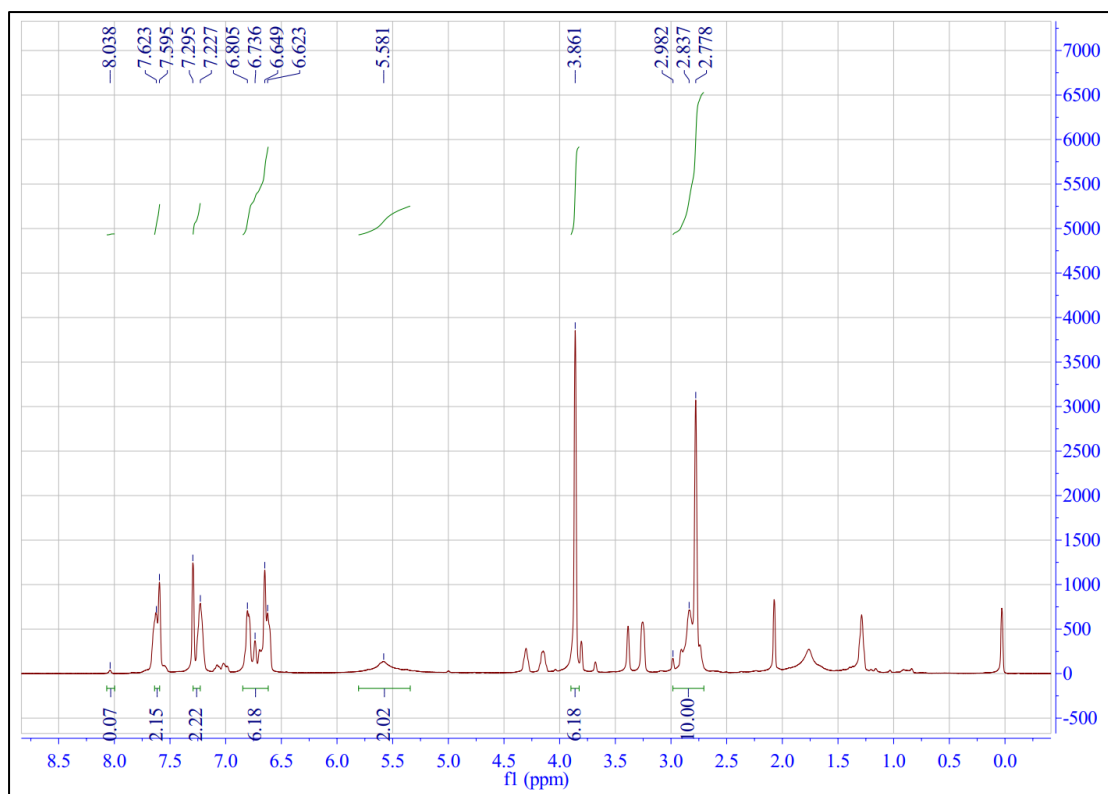


Figure S6. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4f**



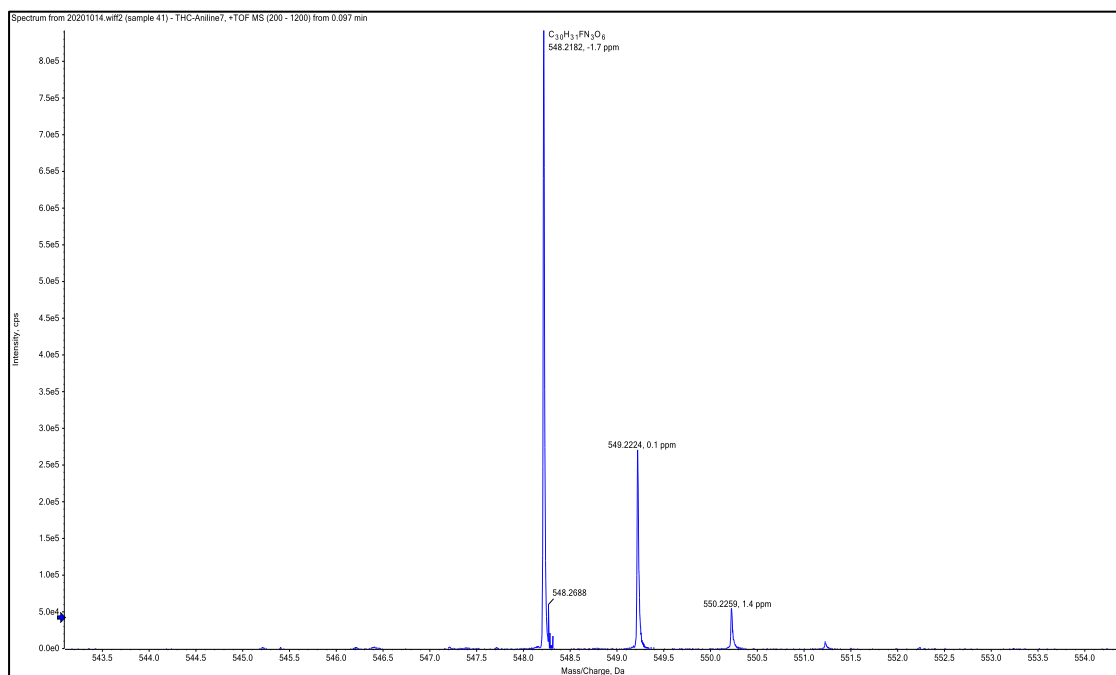
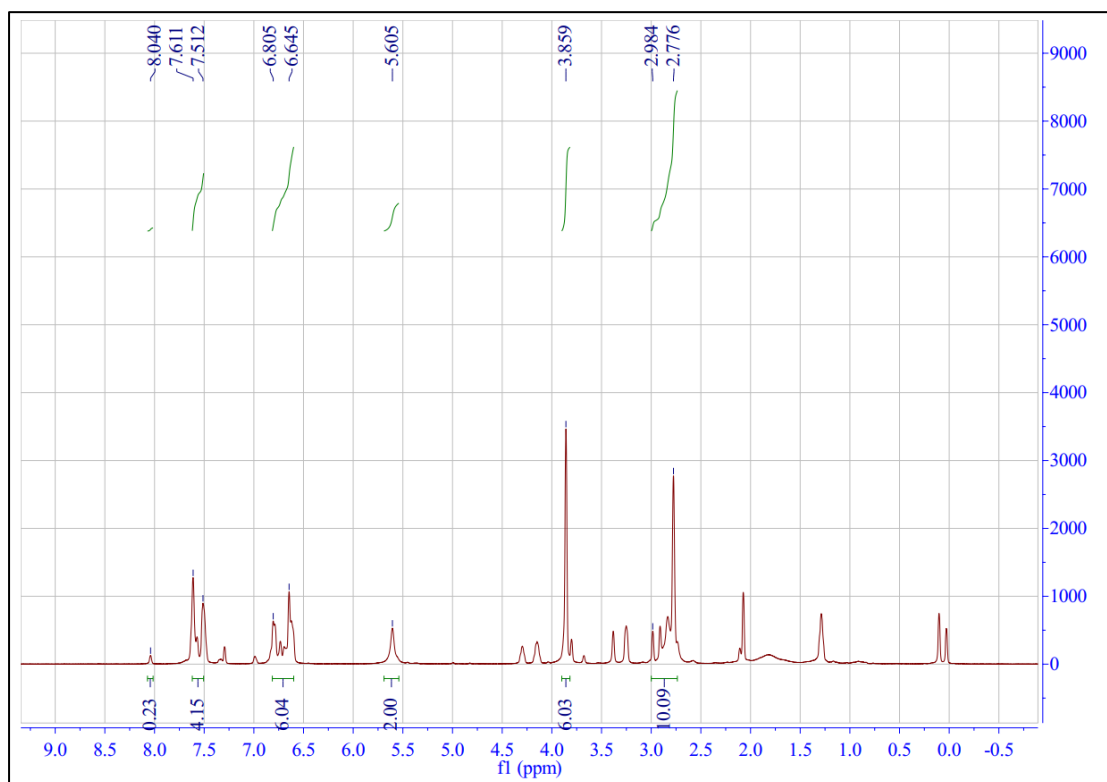


Figure S7. ^1H -NMR, ^{13}C -NMR, HR-ESI-MS spectrum of **4g**



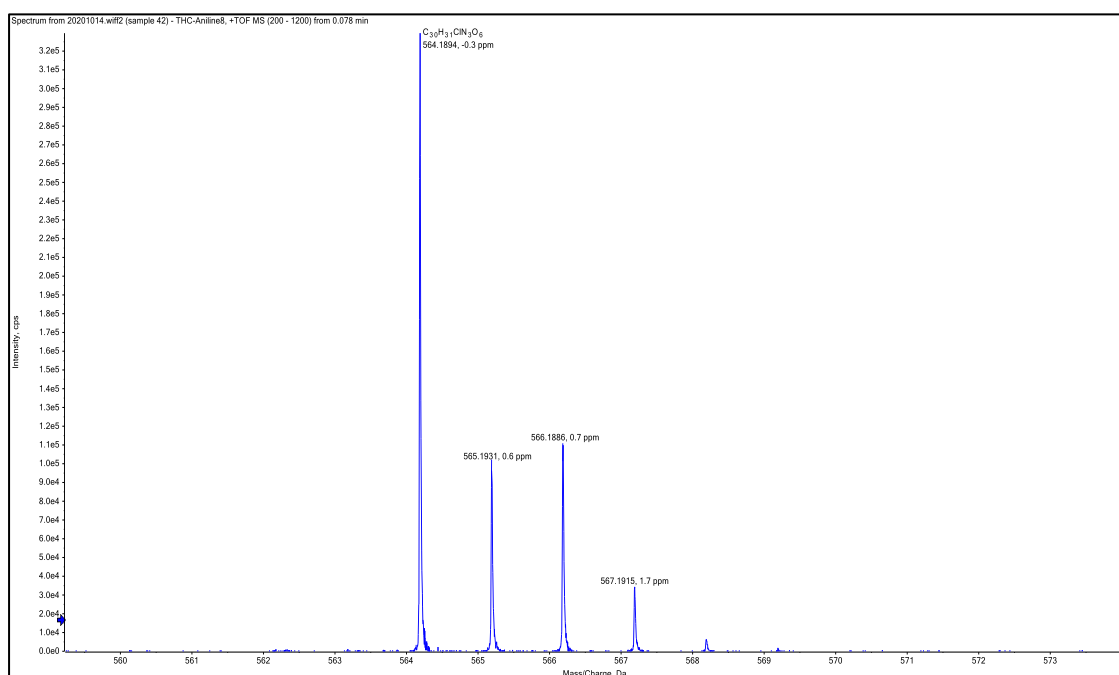
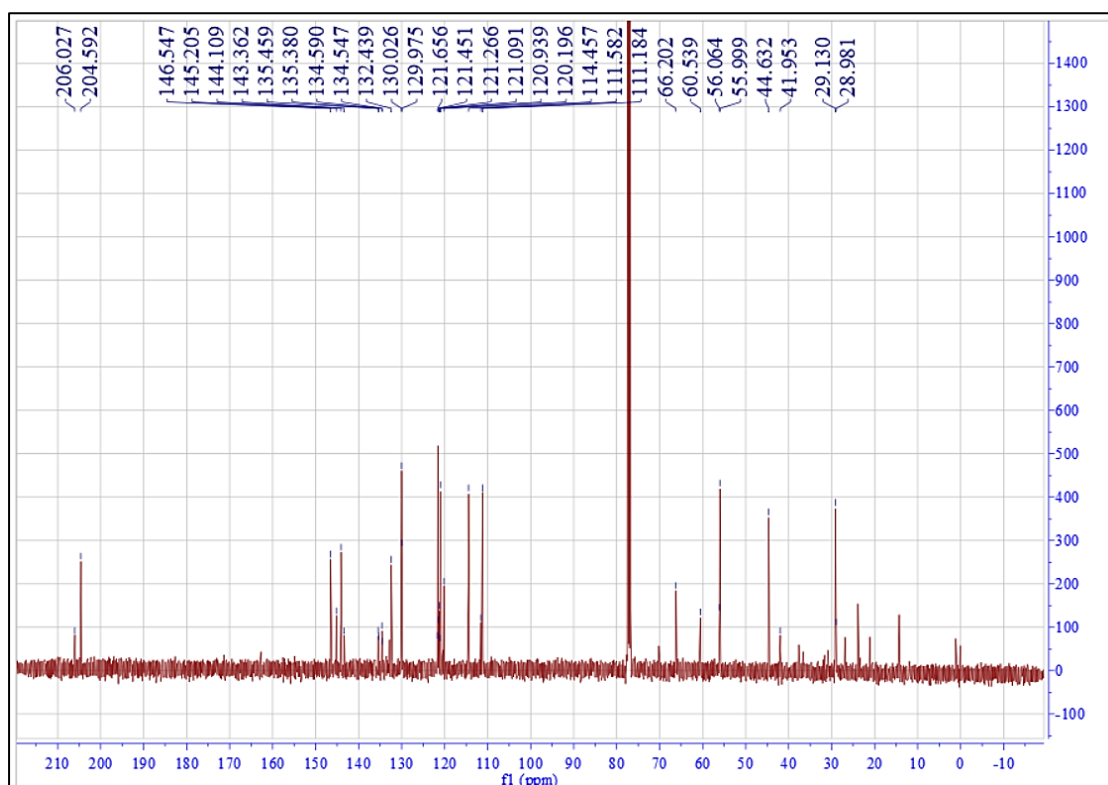
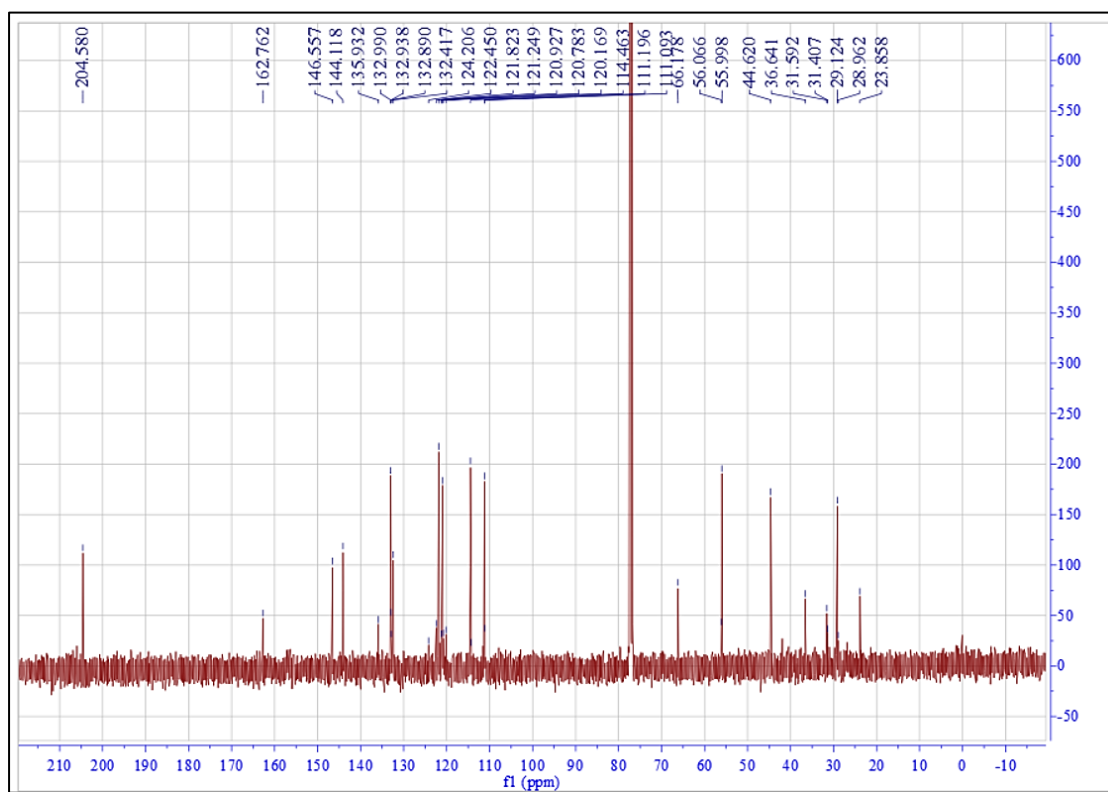
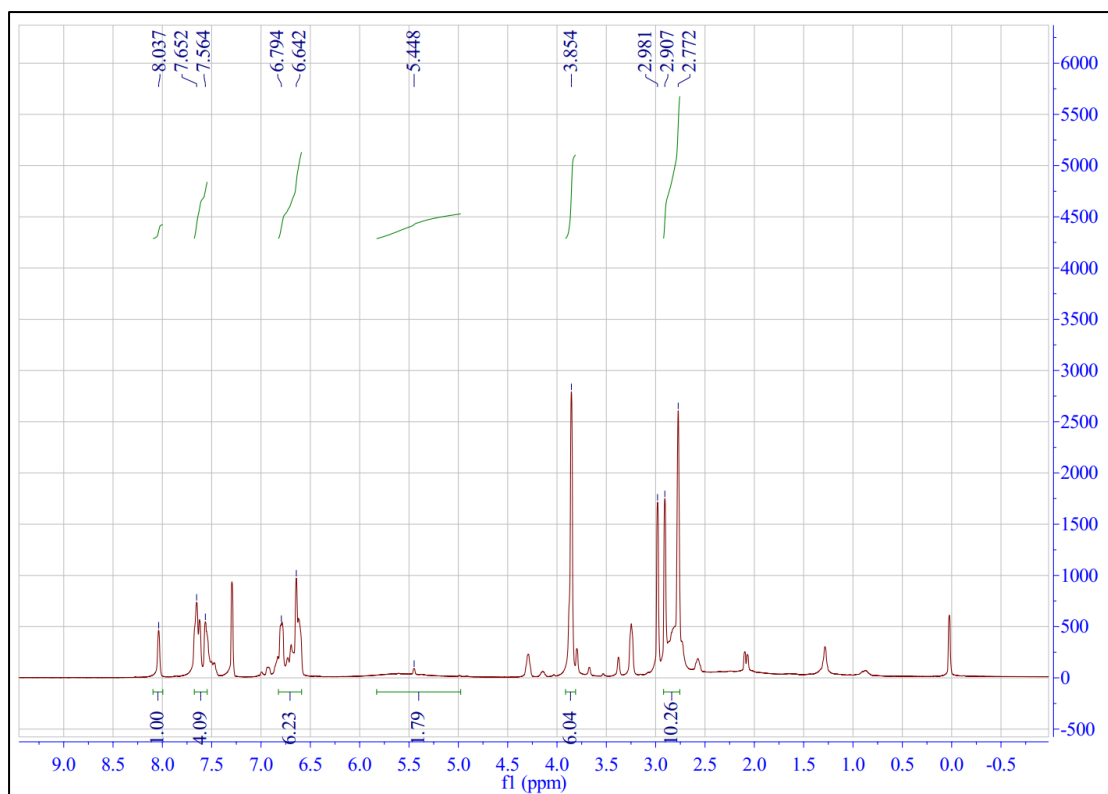


Figure S8. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4h**



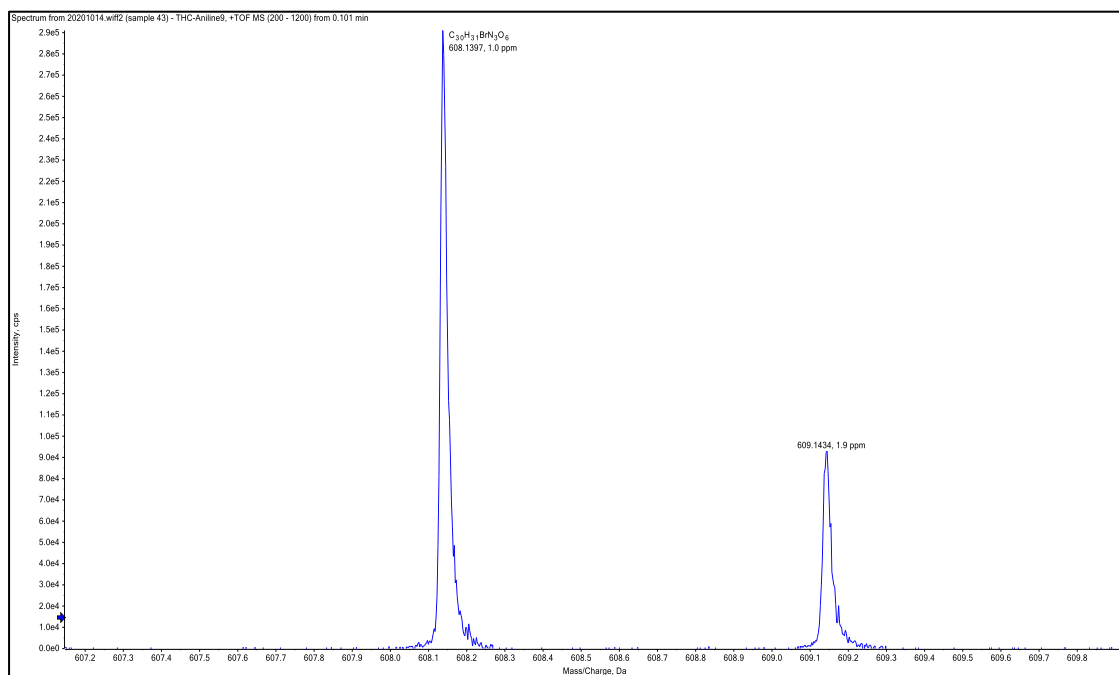
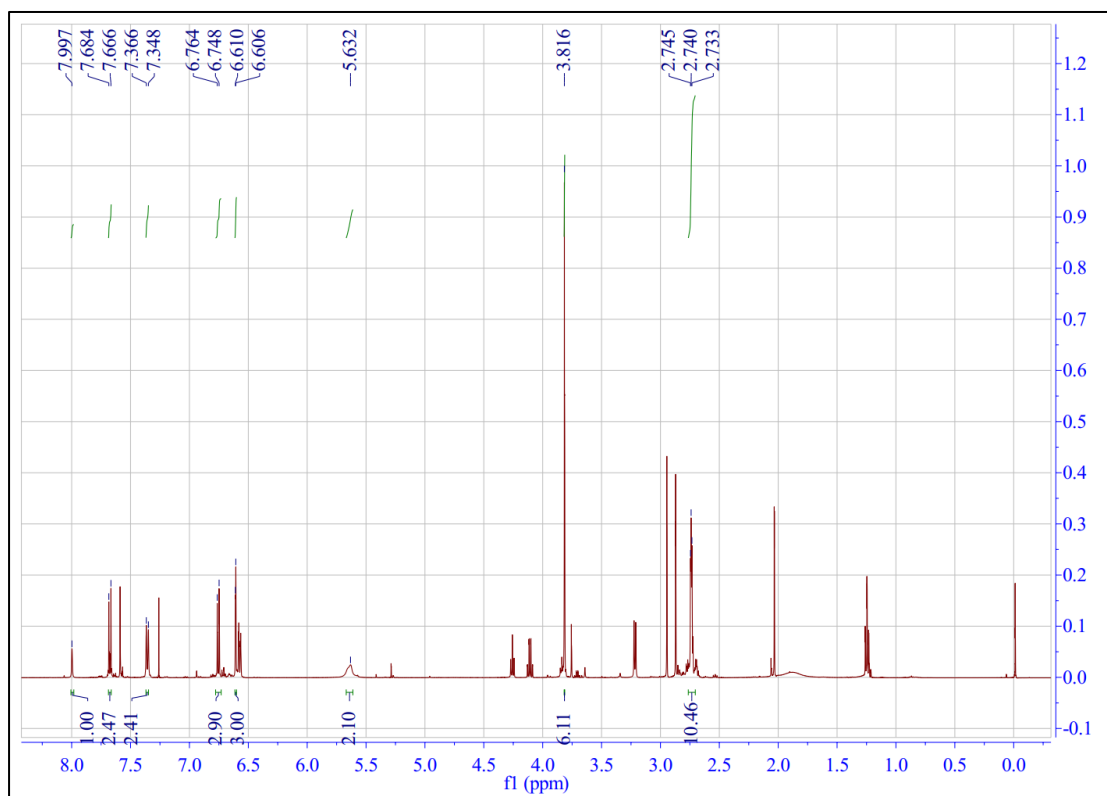


Figure S9. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4i**



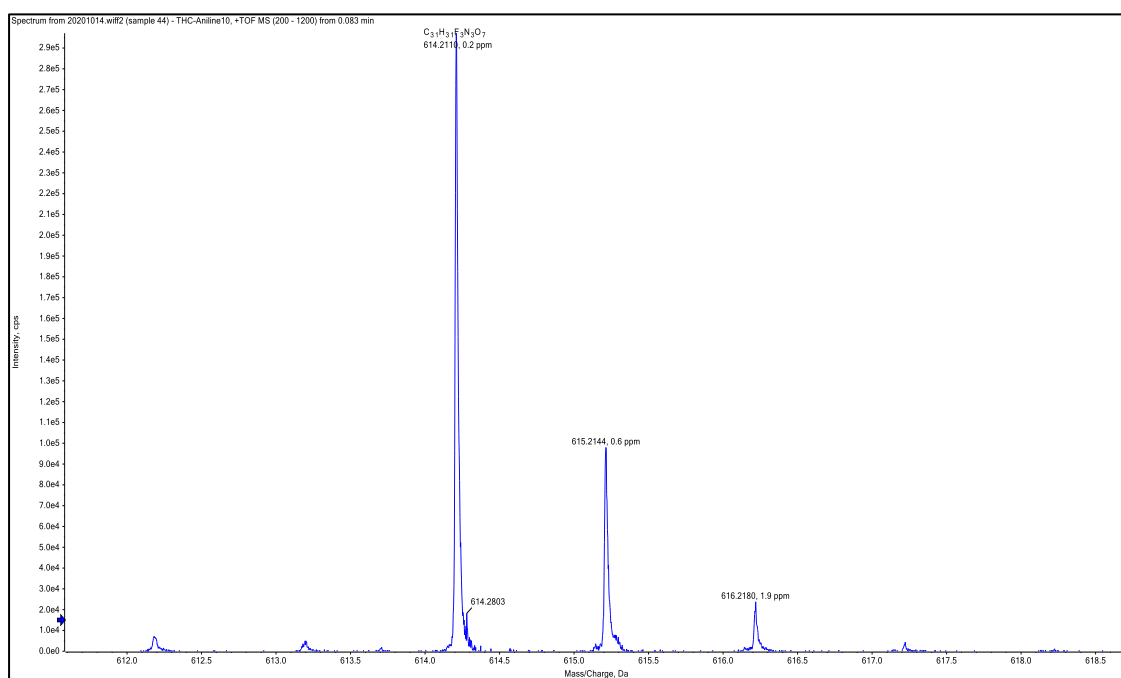
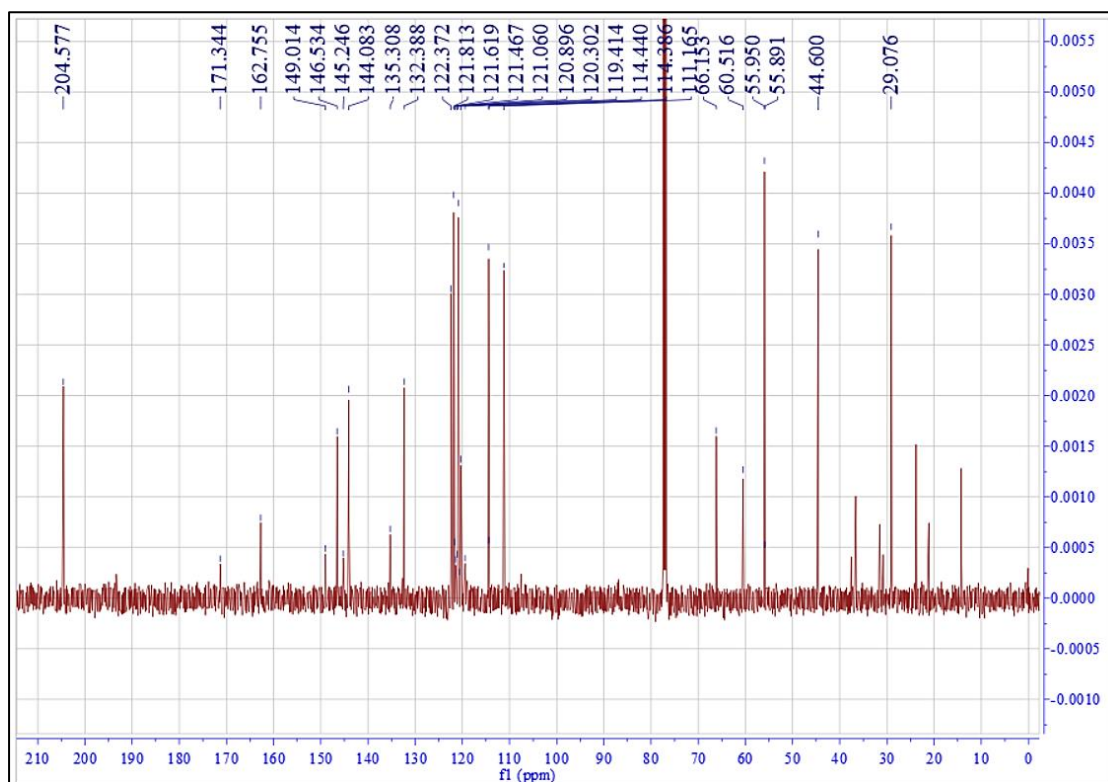
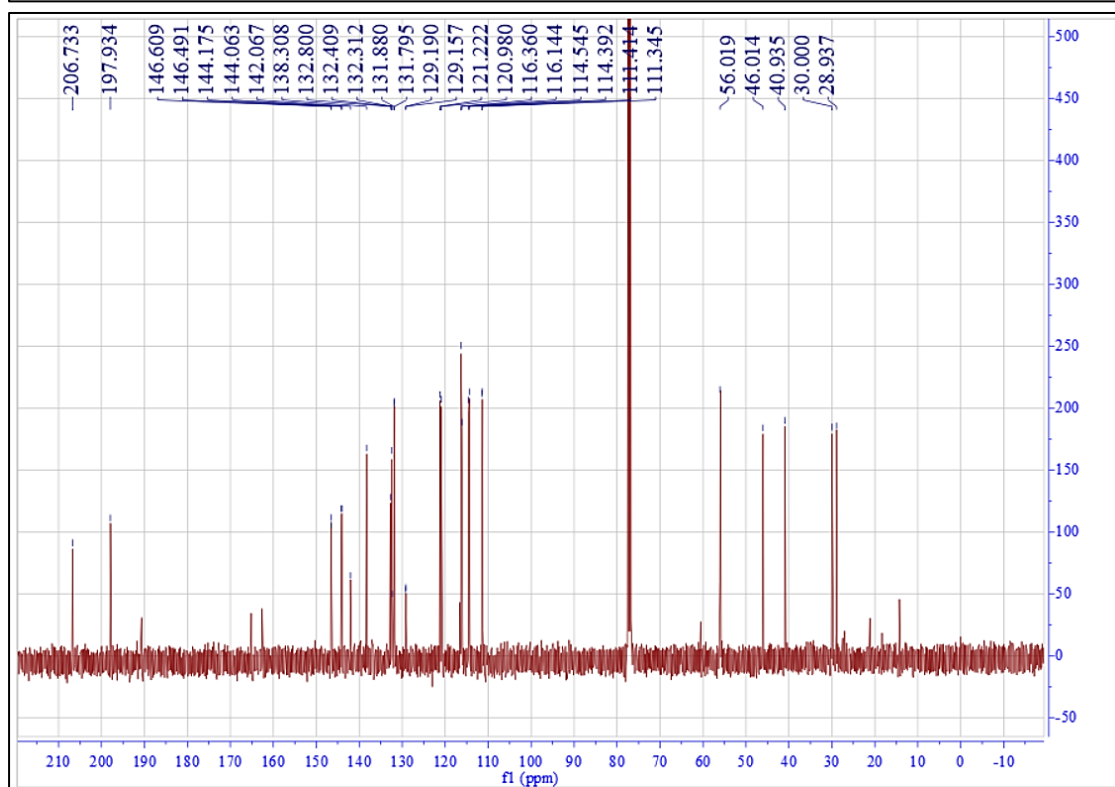
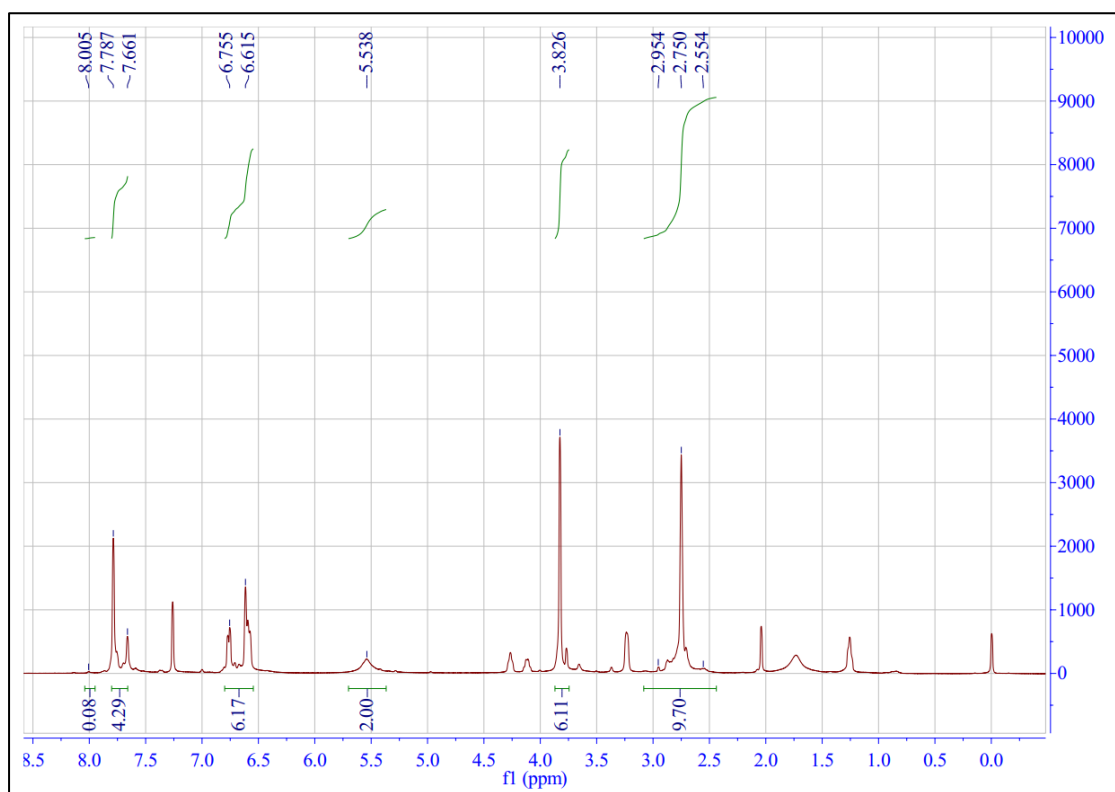


Figure S10. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4j**



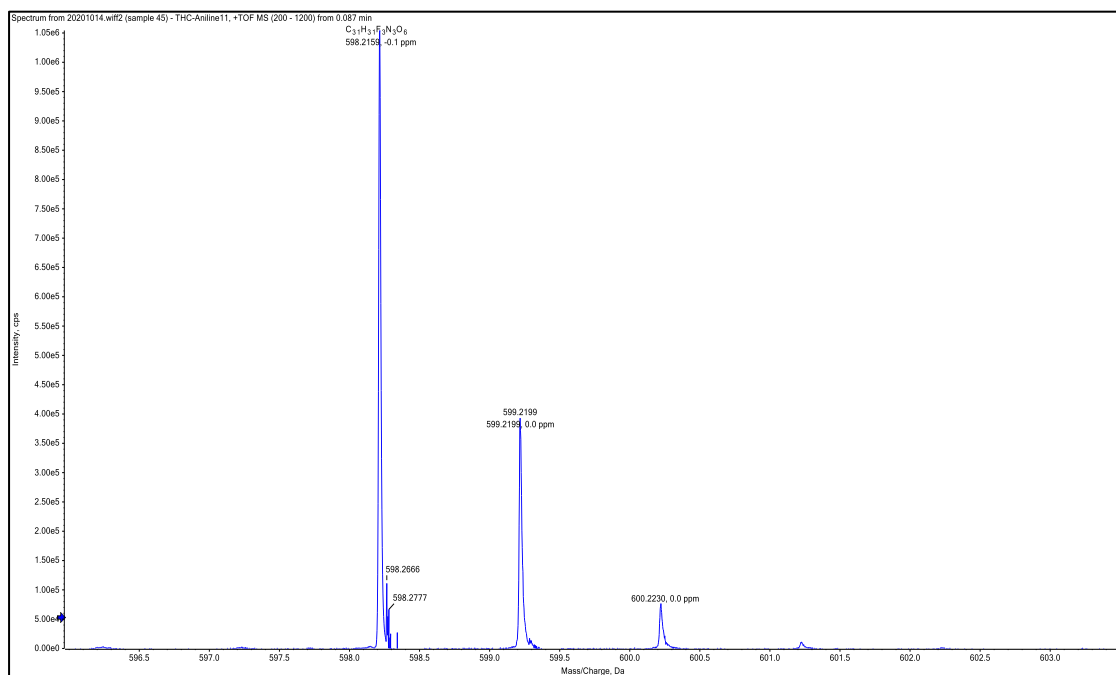
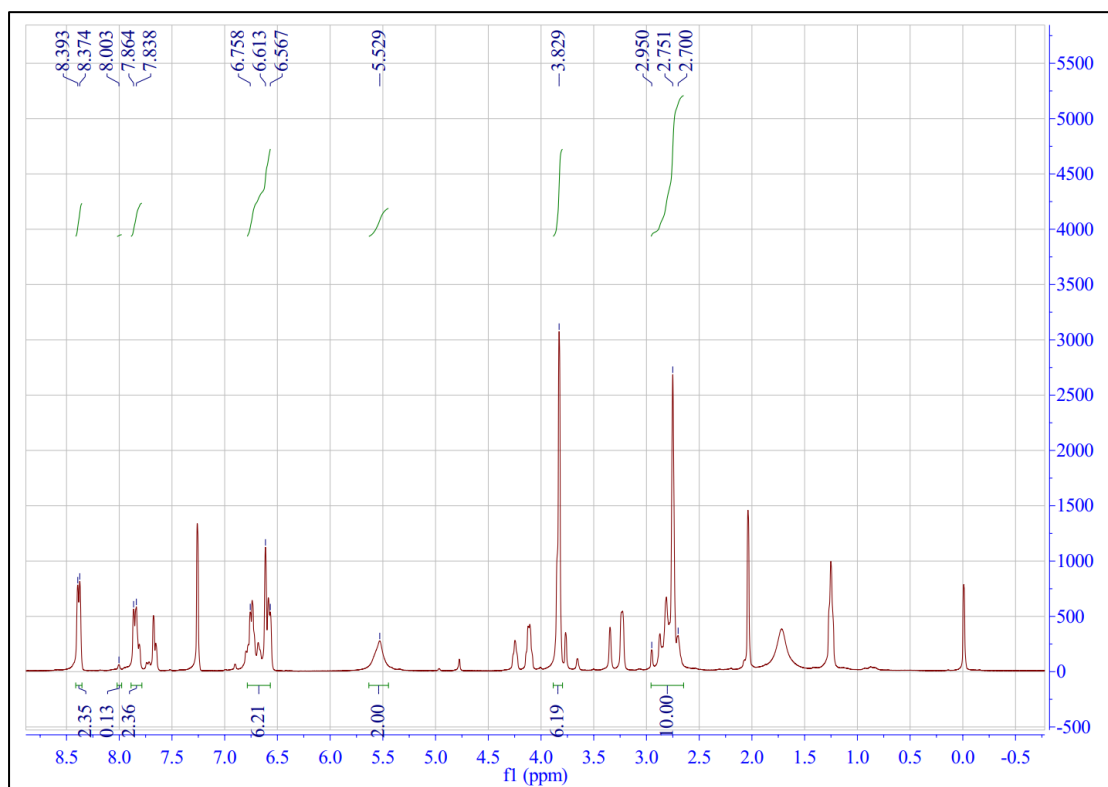


Figure S11. ^1H -NMR, ^{13}C -NMR, HR-ESI-MS spectrum of **4k**



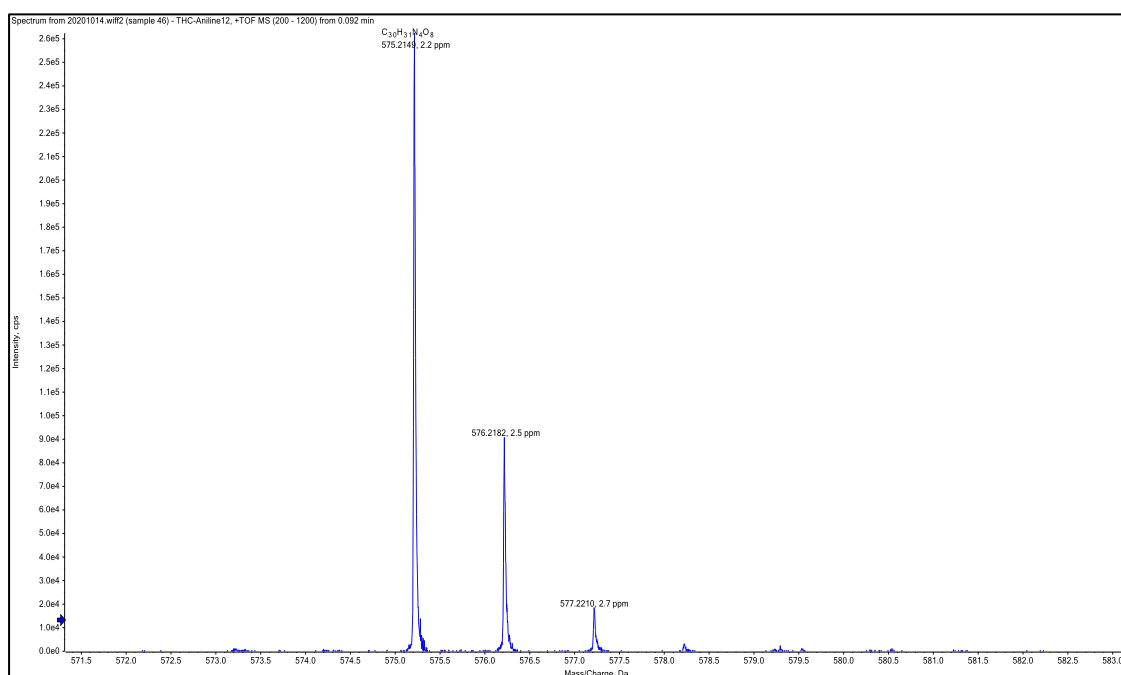
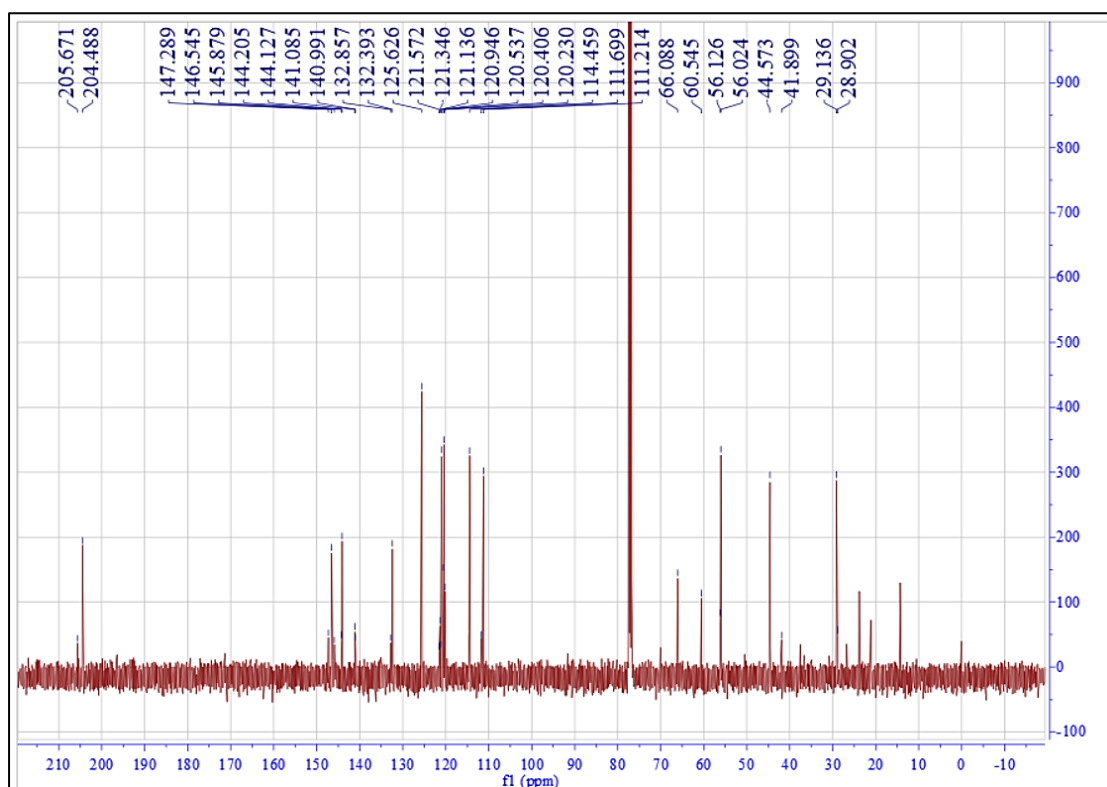
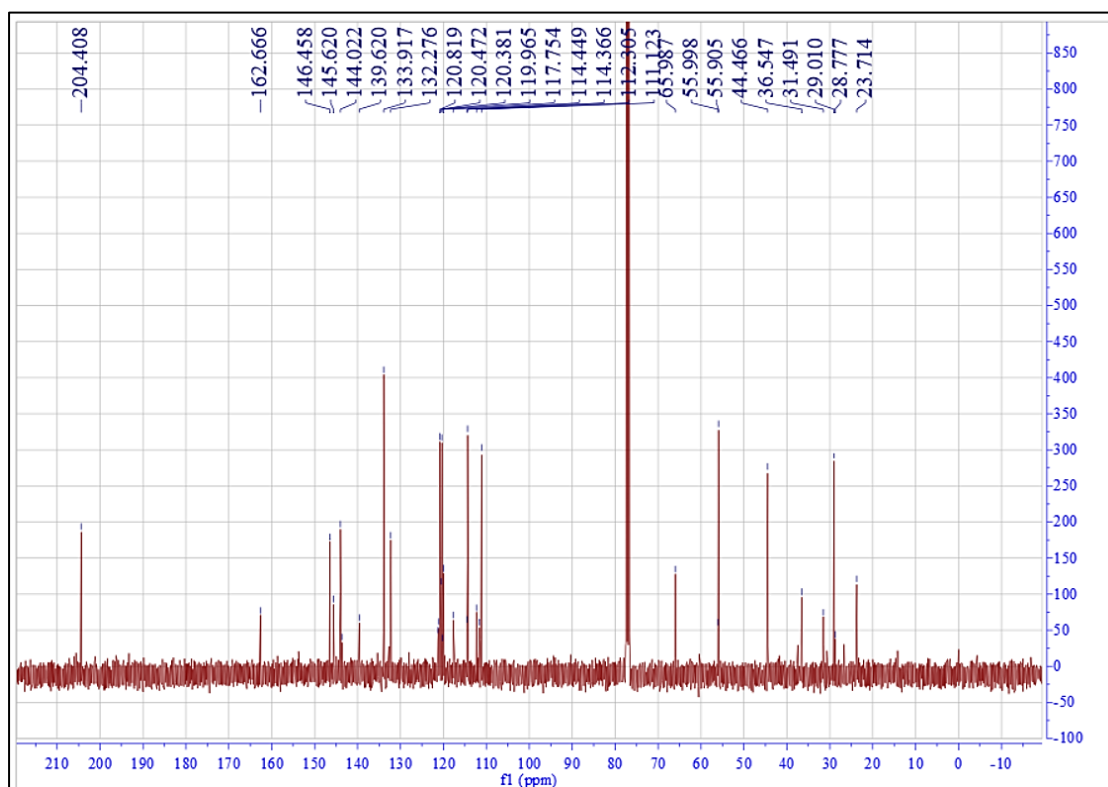
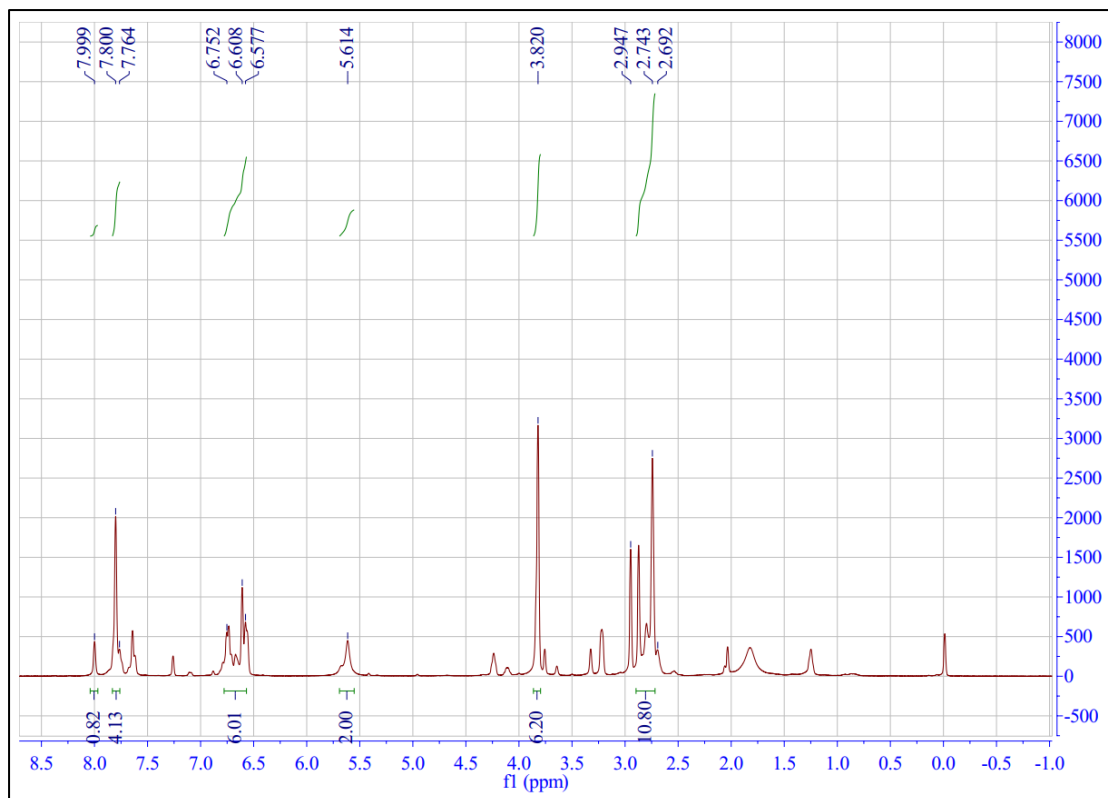


Figure S12. ¹H-NMR, ¹³C-NMR, HR-ESI-MS spectrum of **4I**



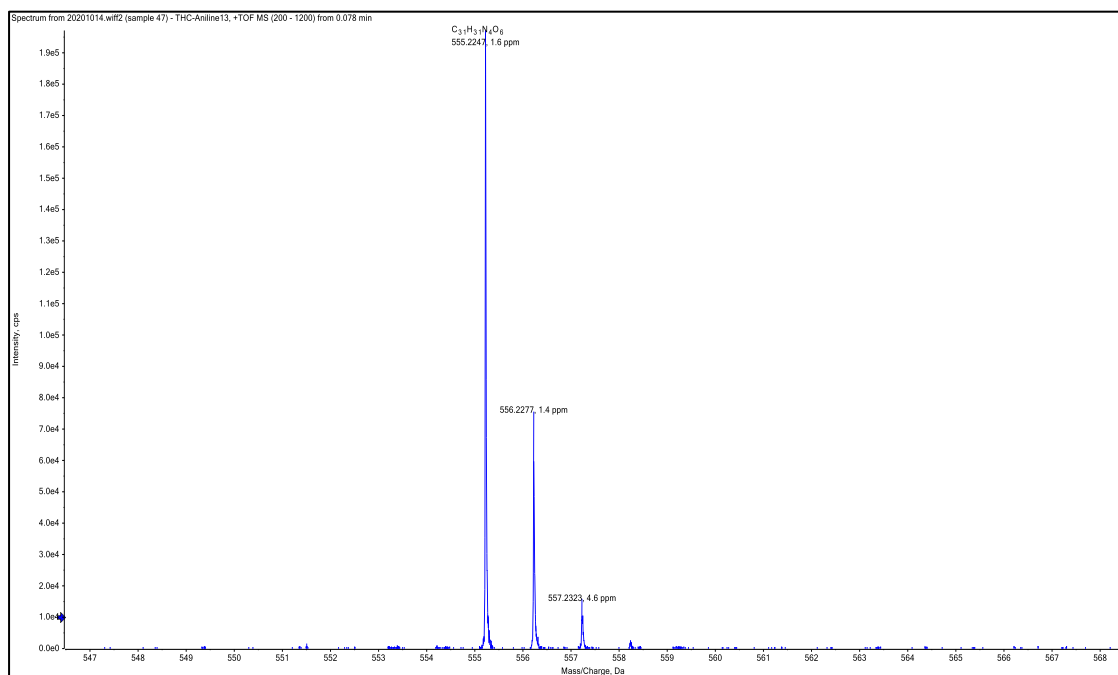


Figure S13. ^1H -NMR, ^{13}C -NMR, HR-ESI-MS spectrum of **4m**

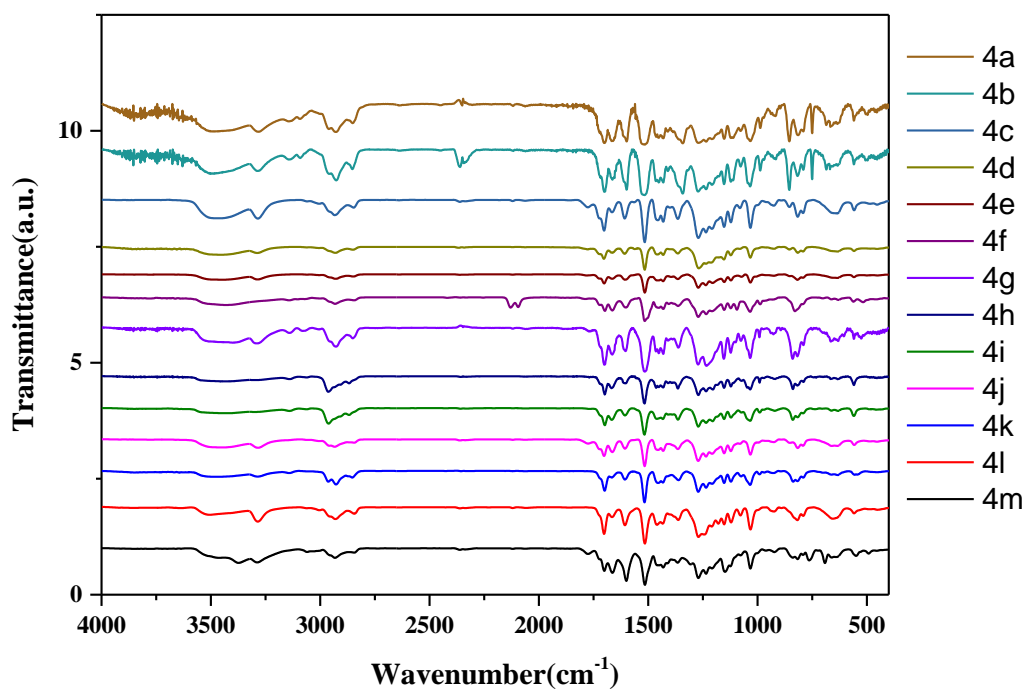


Figure S14. FTIR spectra of **4a~4m**