

Electronic Supplementary Information

**Direct Transformation of Amides: One-pot Reductive Ugi-Type Three-
component Reaction of Secondary Amides**

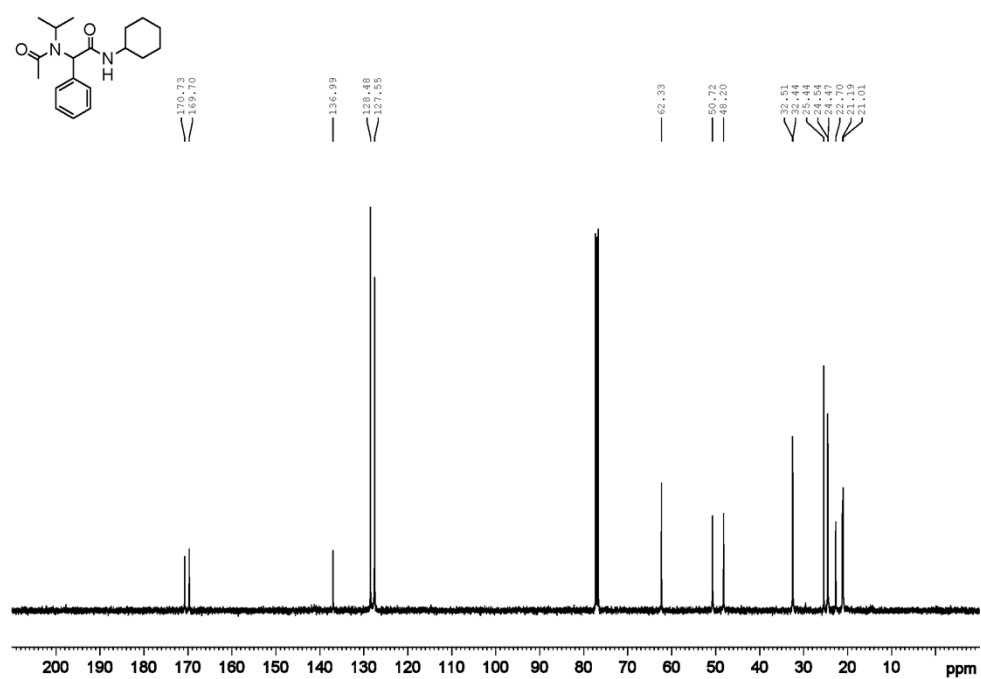
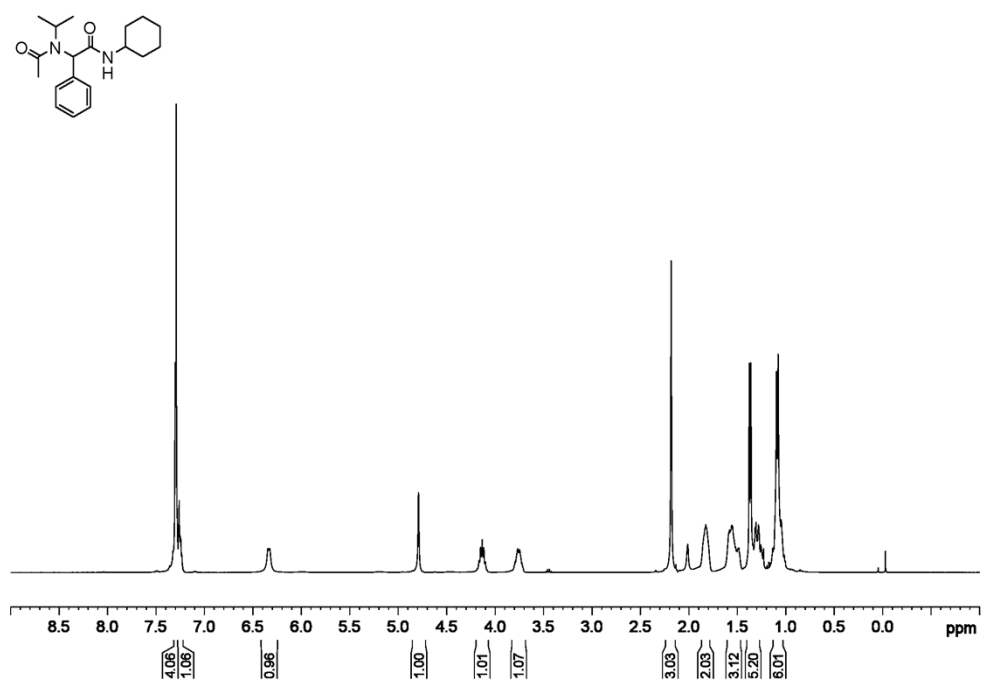
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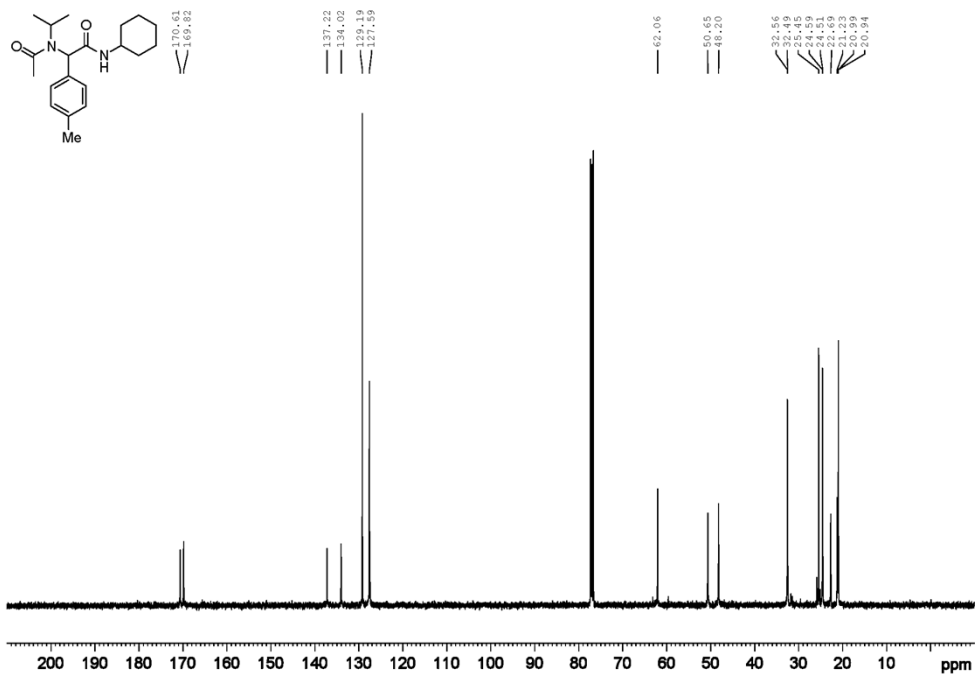
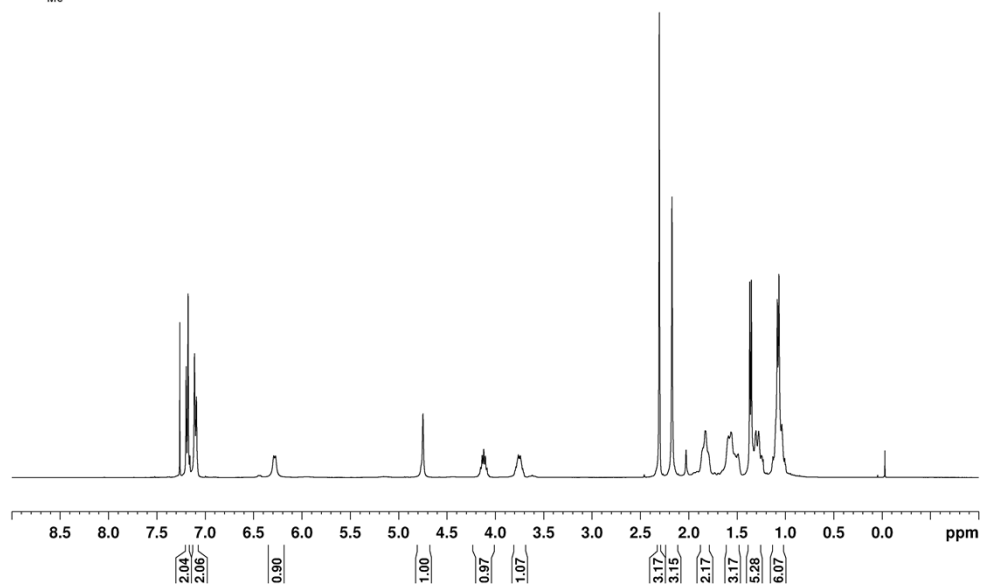
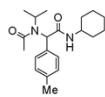
Contents (19 pages):

- ^1H NMR and ^{13}C NMR spectra of the products **2a–2s** S2- S20

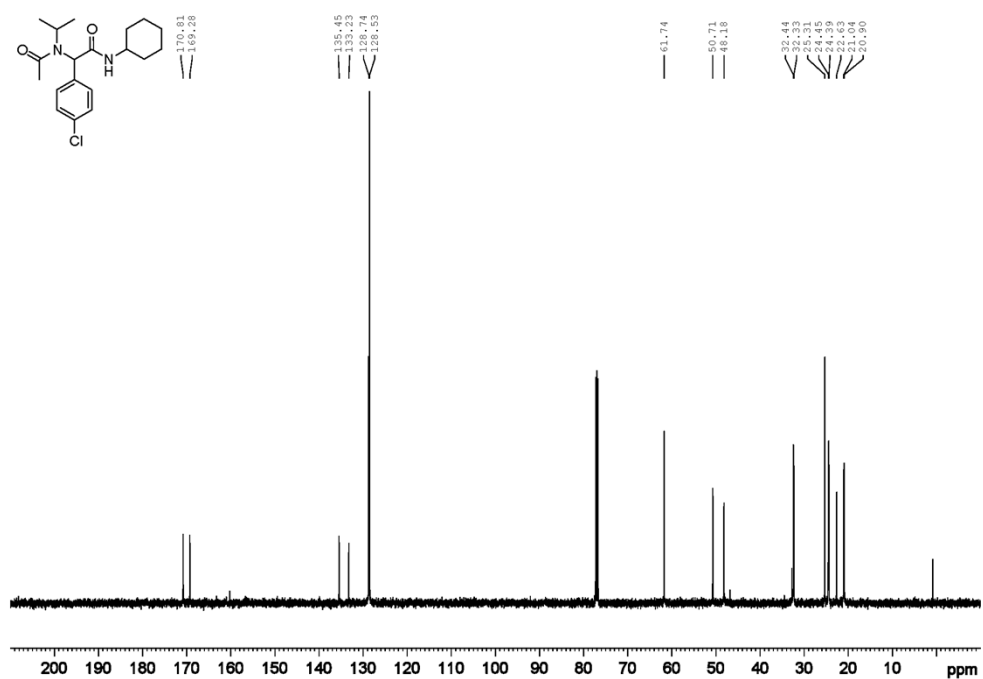
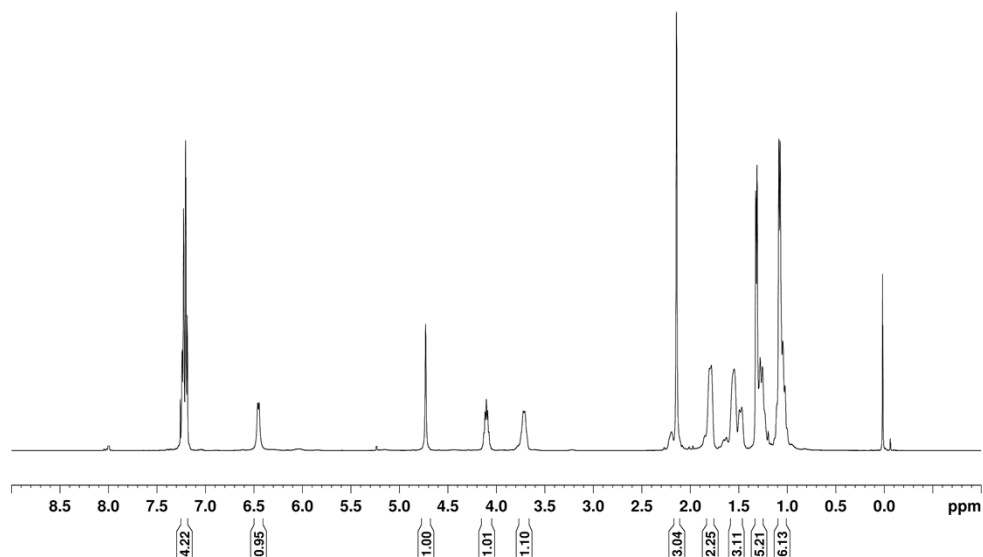
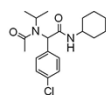
^1H NMR and ^{13}C NMR spectra of compound **2a**



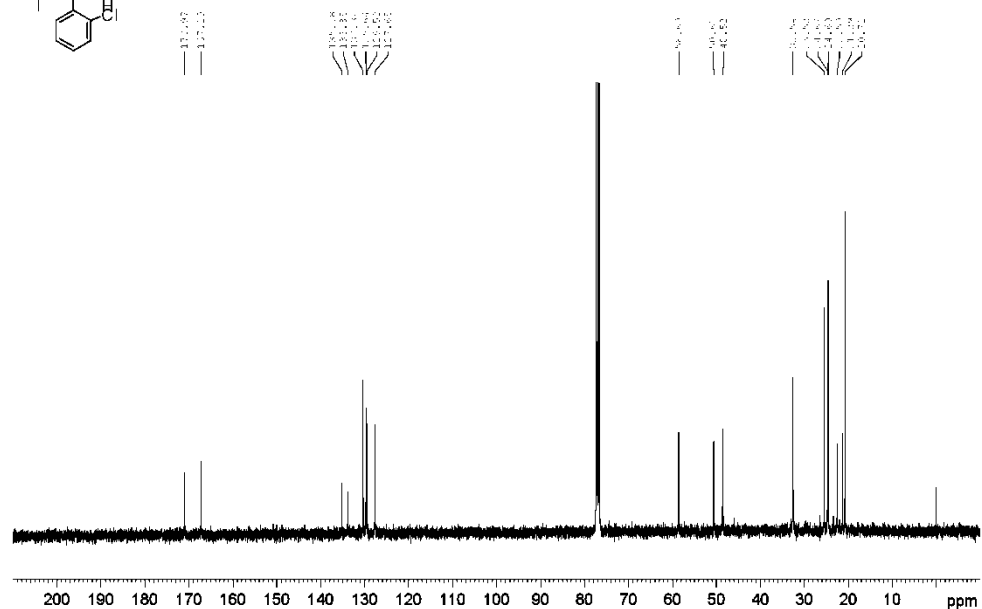
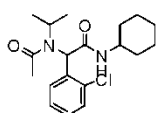
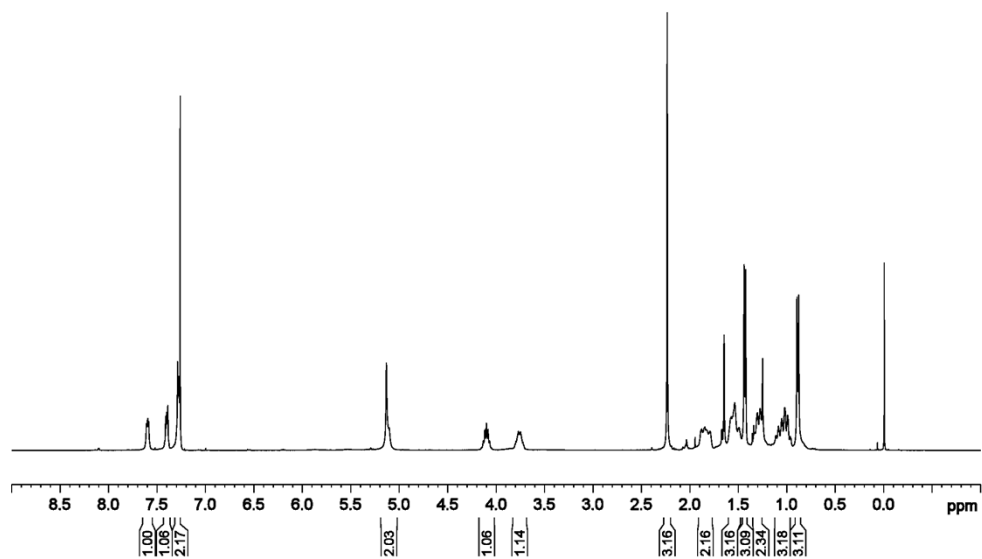
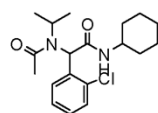
^1H NMR and ^{13}C NMR spectra of compound **2b**



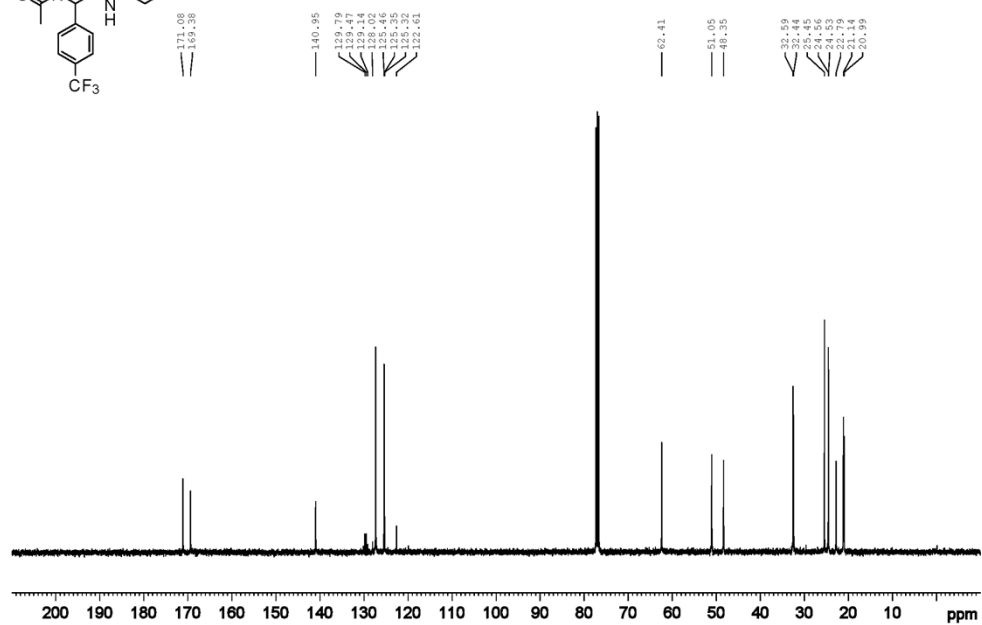
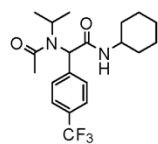
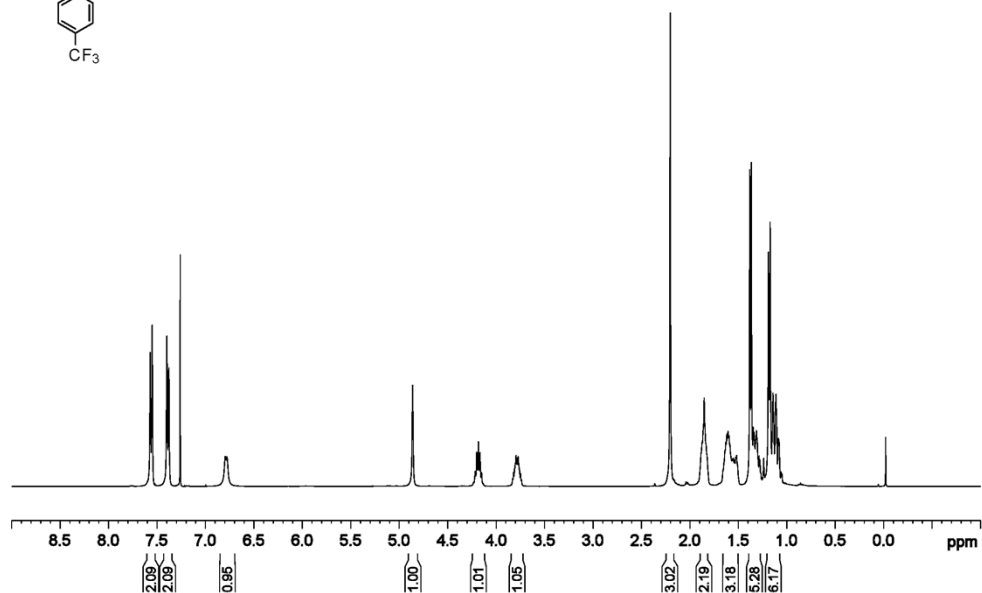
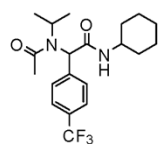
^1H NMR and ^{13}C NMR spectra of compound **2c**



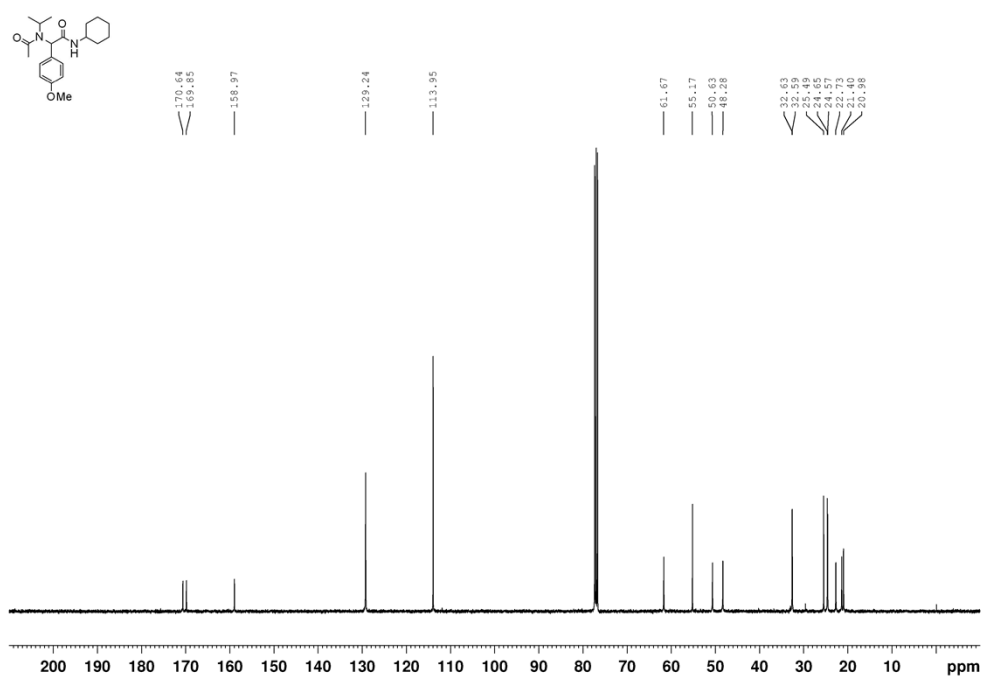
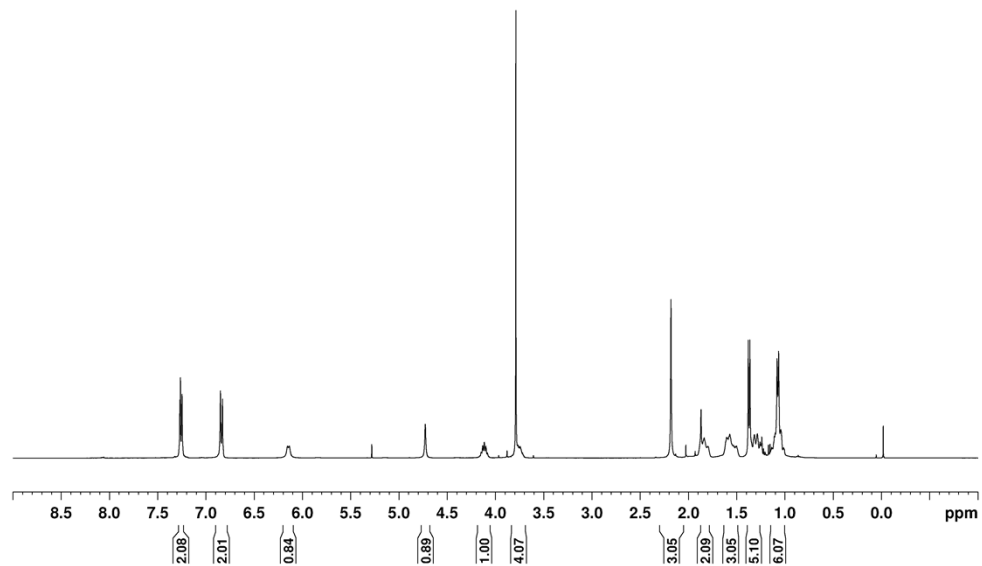
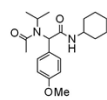
^1H NMR and ^{13}C NMR spectra of compound **2d**



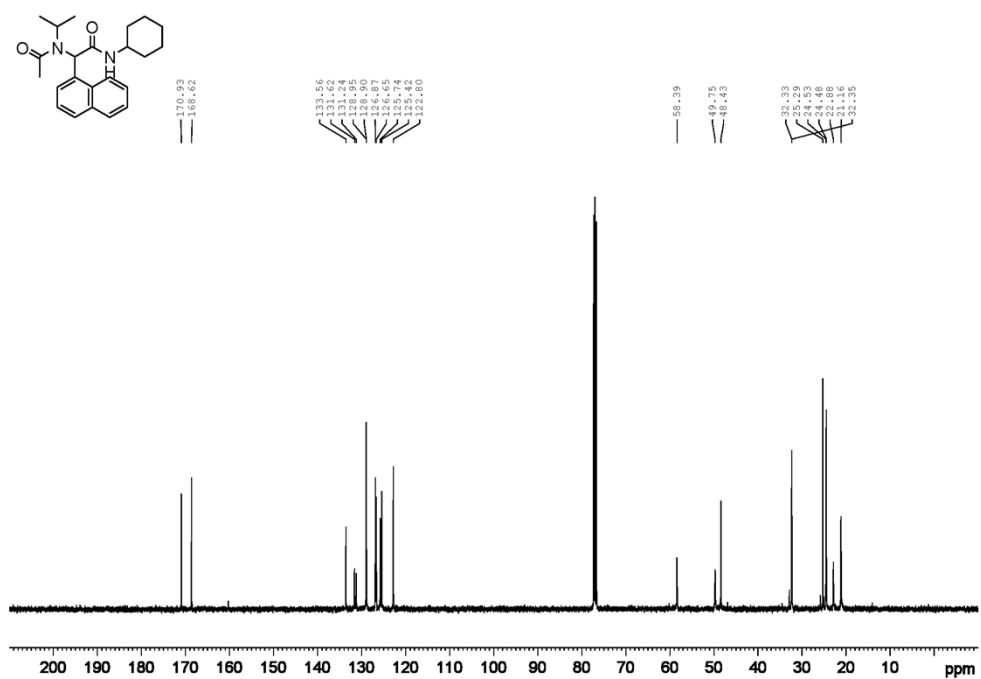
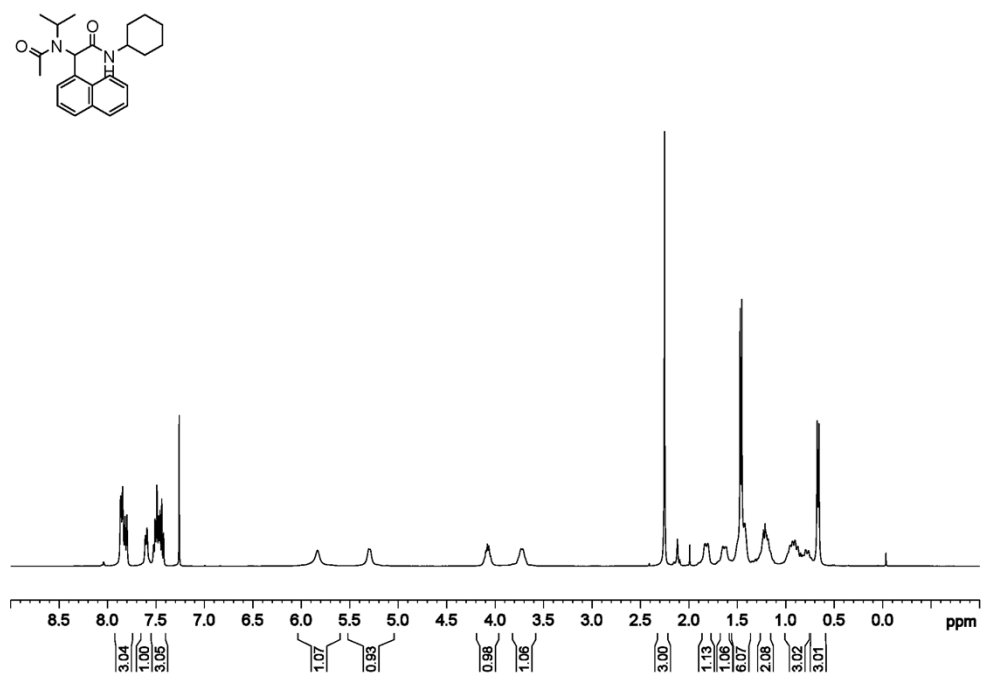
^1H NMR and ^{13}C NMR spectra of compound **2e**



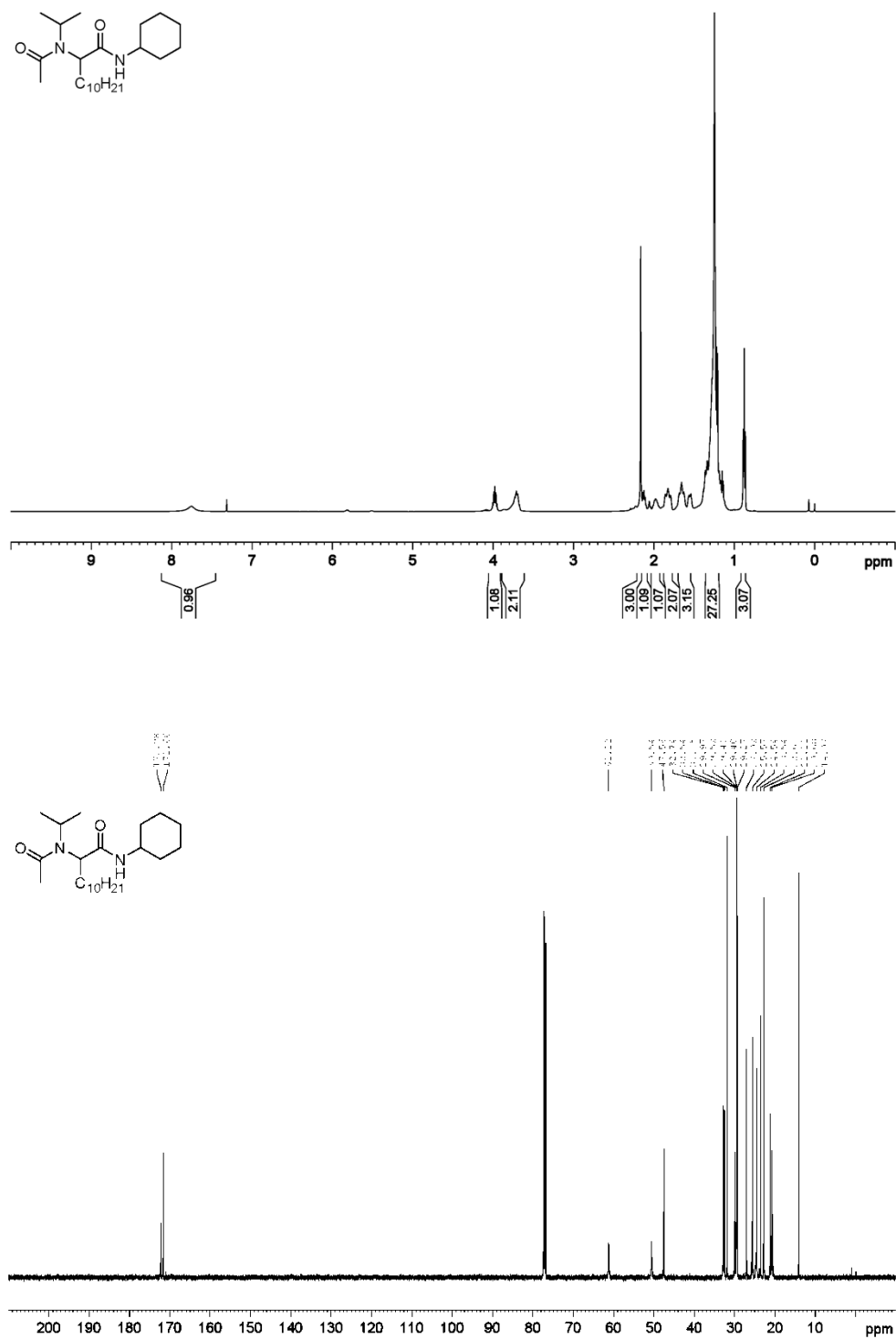
^1H NMR and ^{13}C NMR spectra of compound **2f**

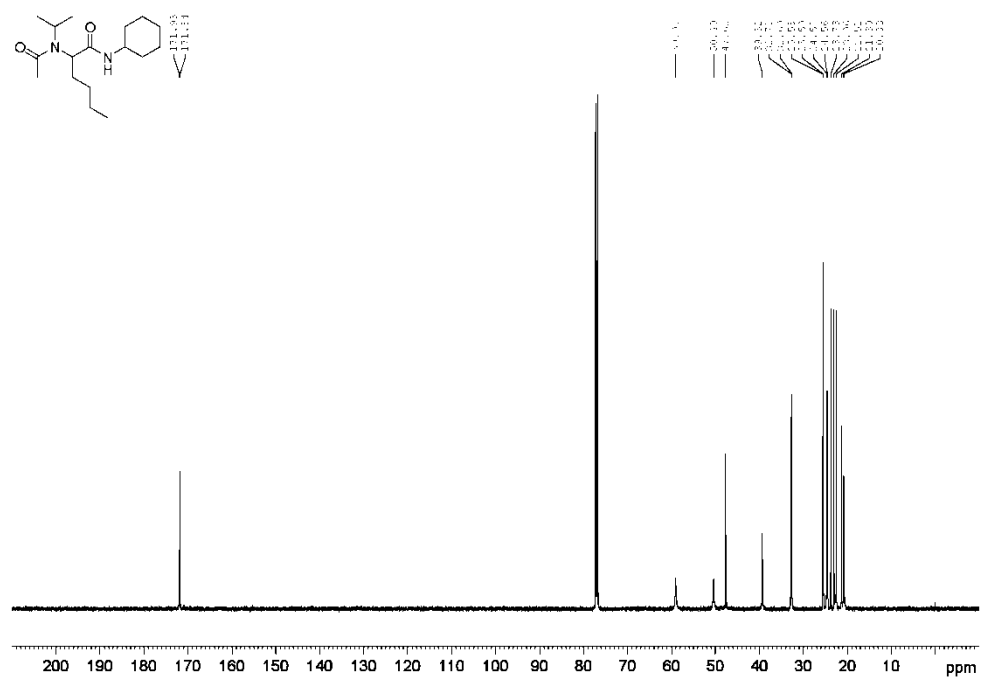
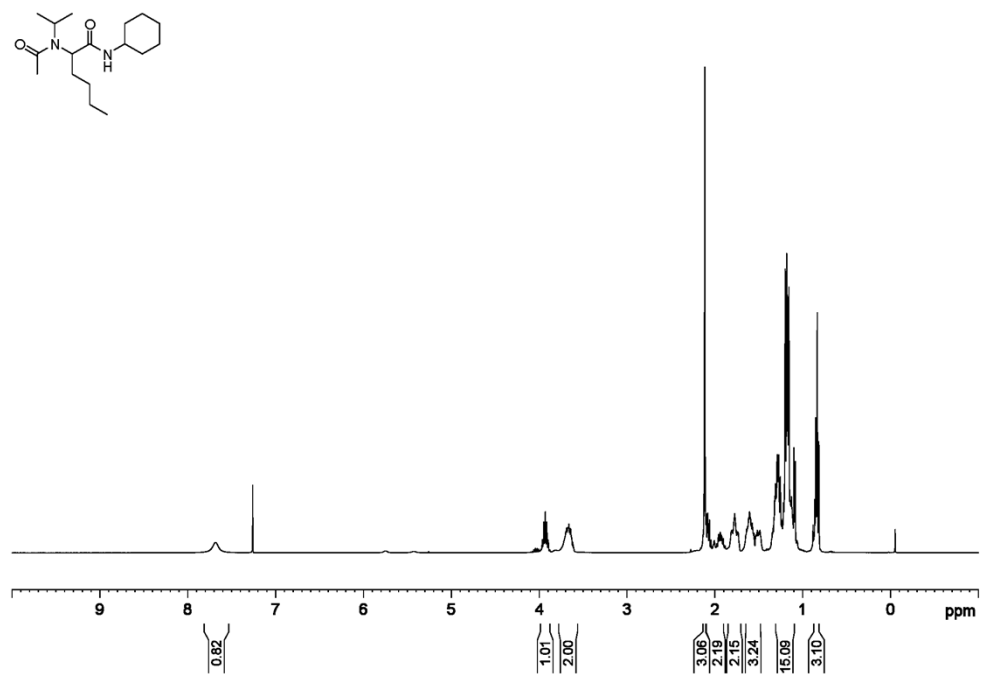


¹H NMR and ¹³C NMR spectra of compound **2g**

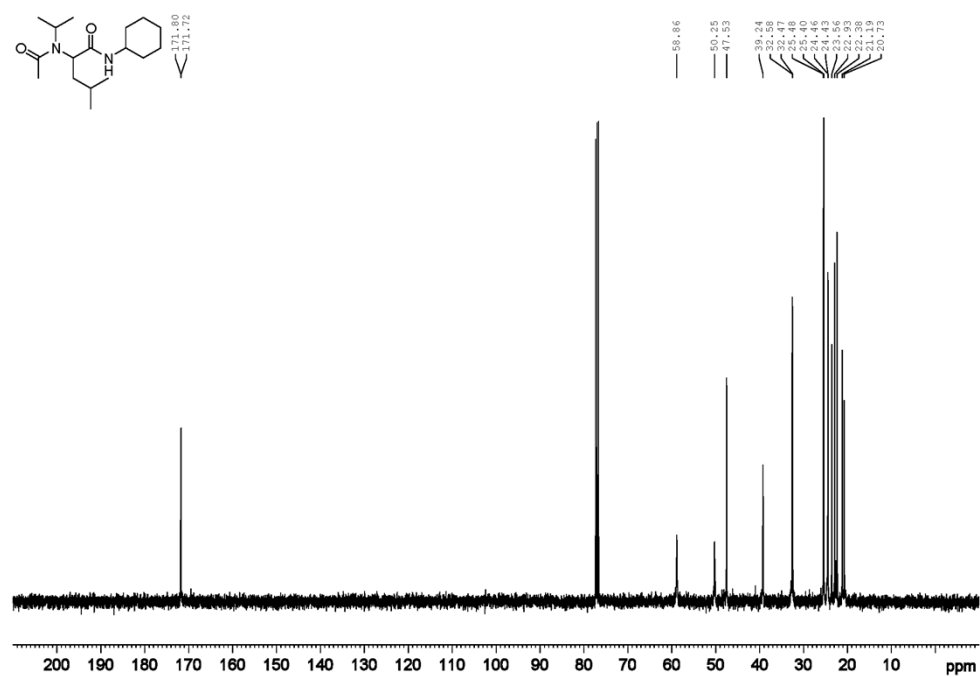
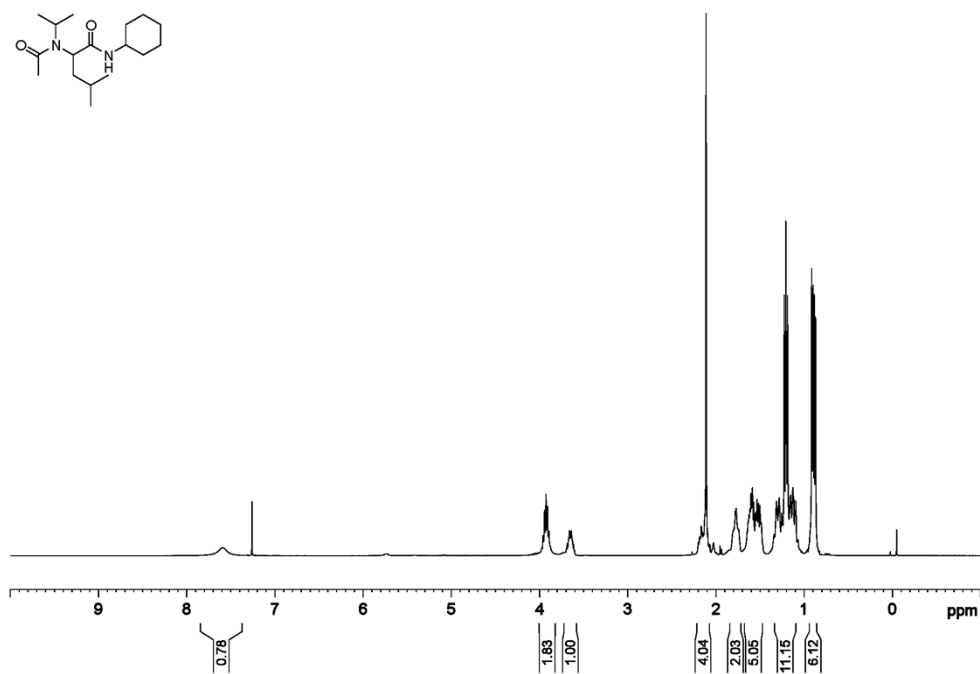


^1H NMR and ^{13}C NMR spectra of compound **2h**

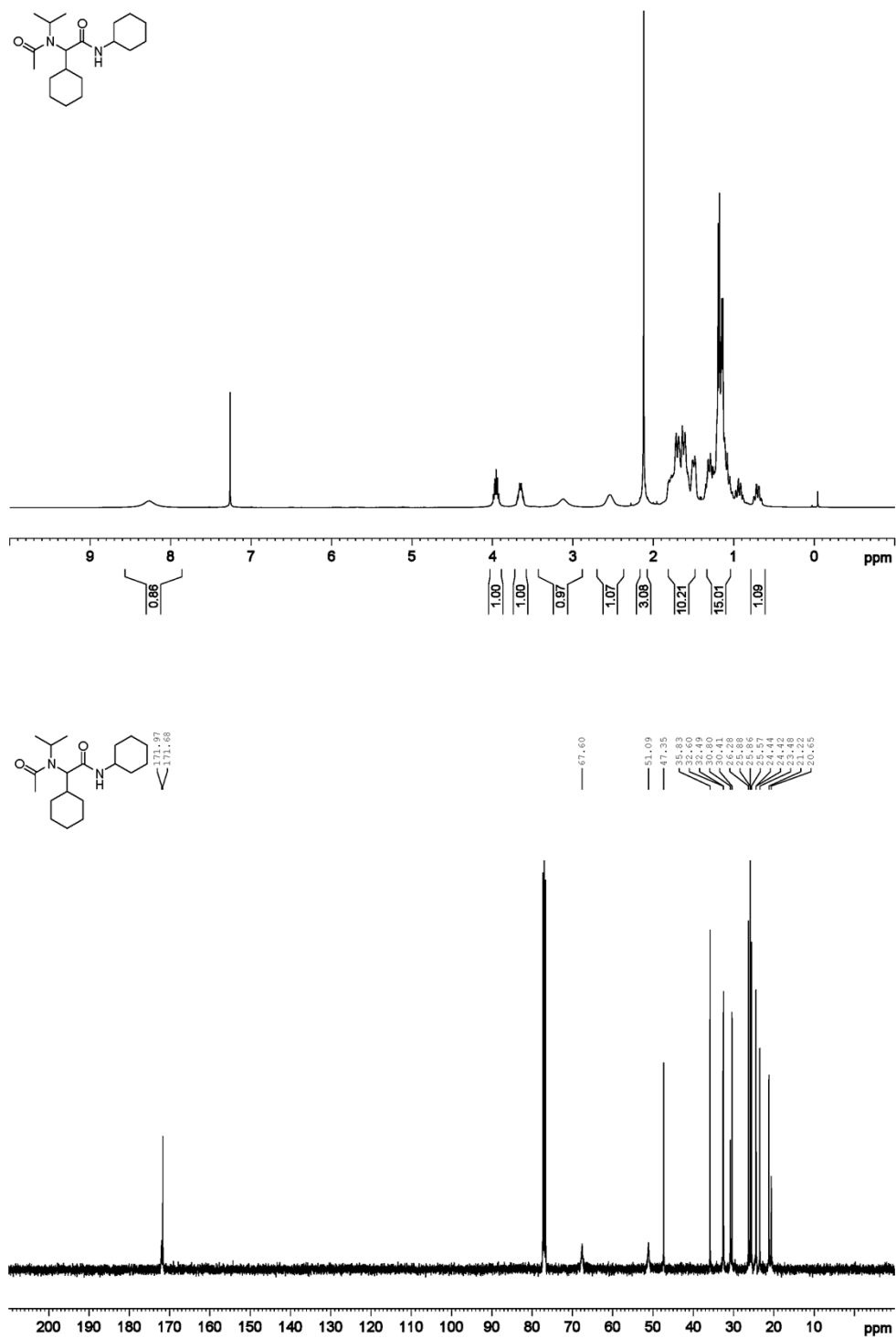


¹H NMR and ¹³C NMR spectra of compound **2i**

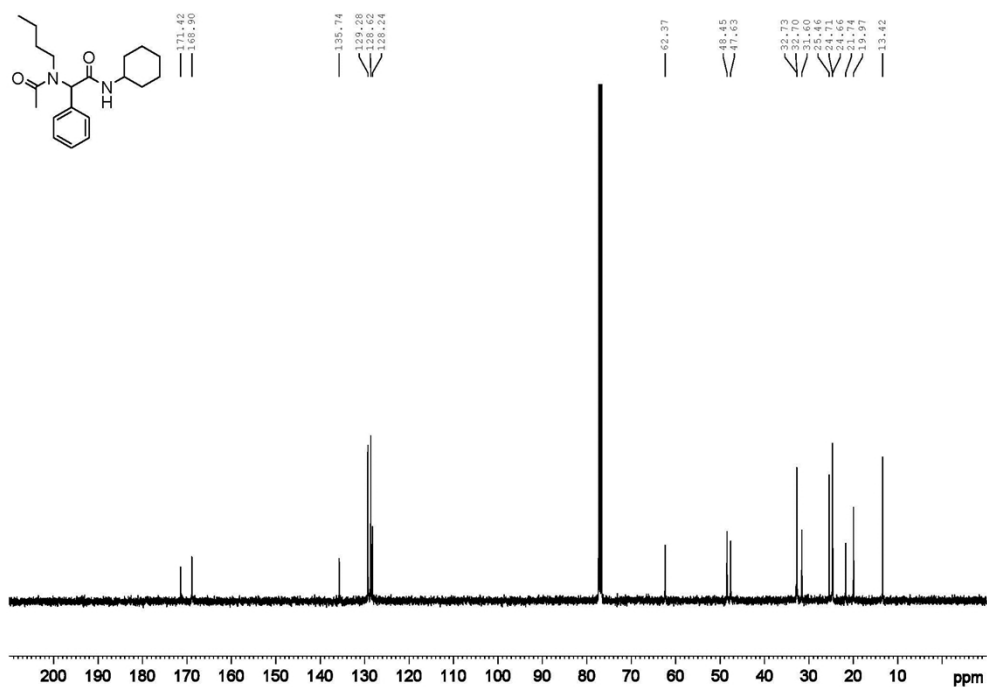
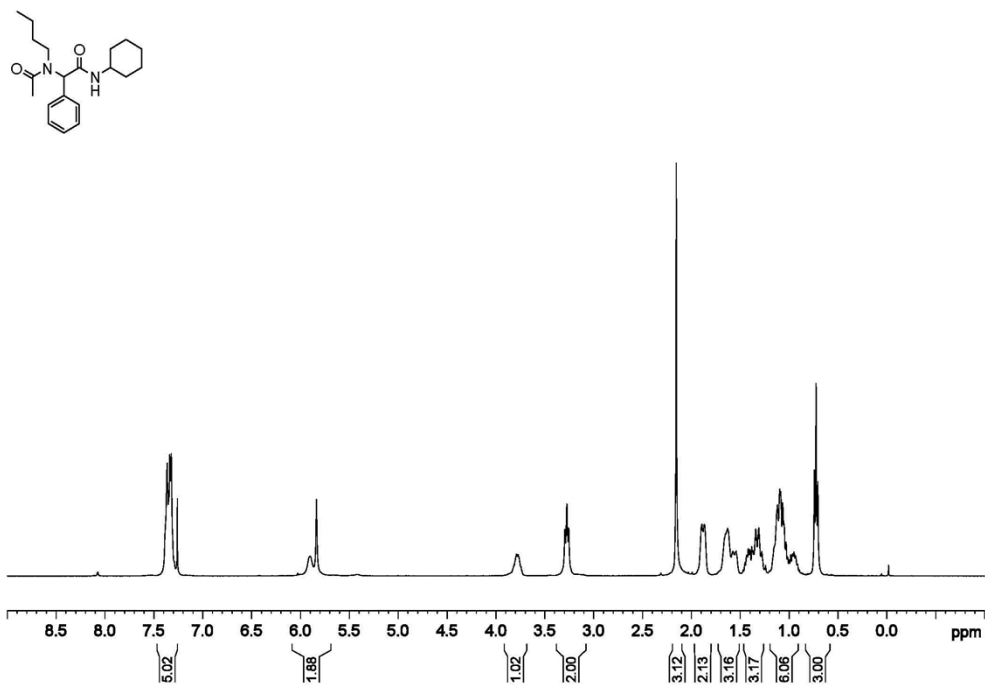
^1H NMR and ^{13}C NMR spectra of compound **2j**



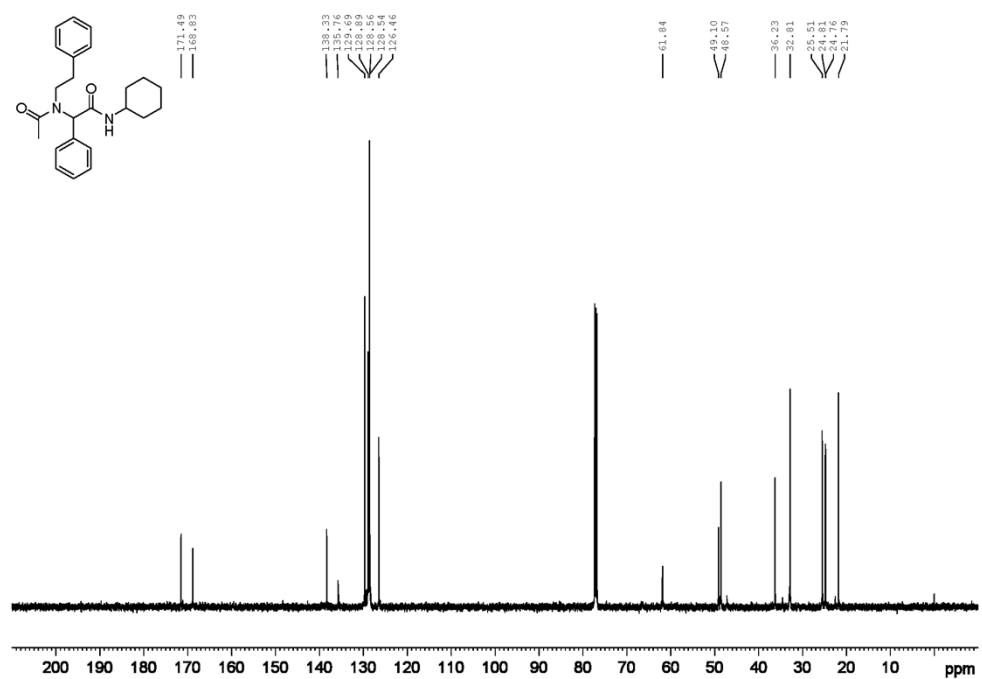
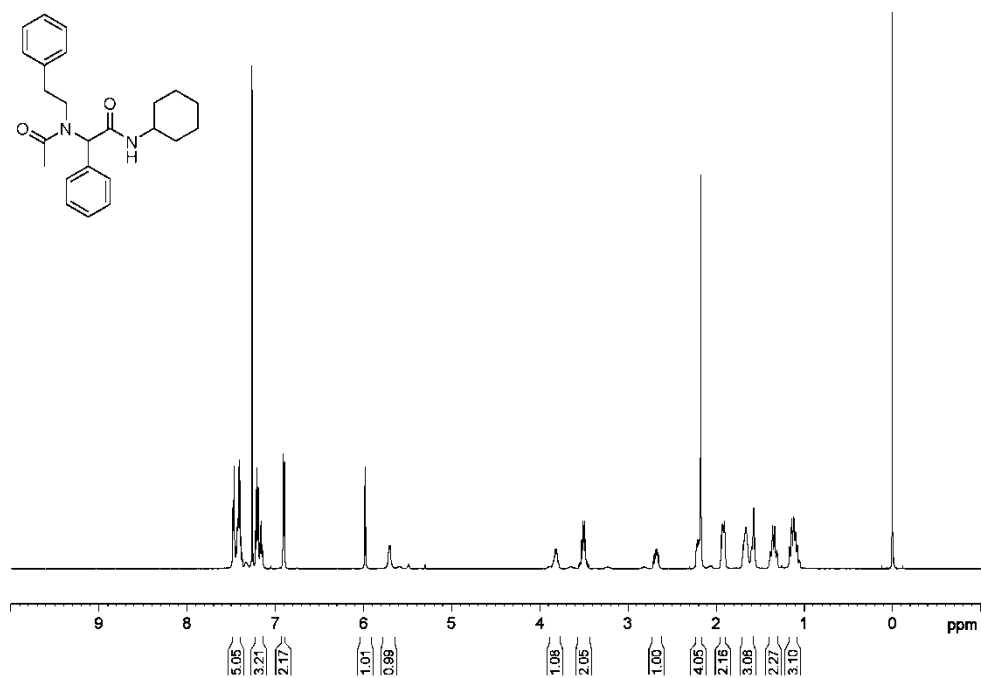
^1H NMR and ^{13}C NMR spectra of compound **2k**



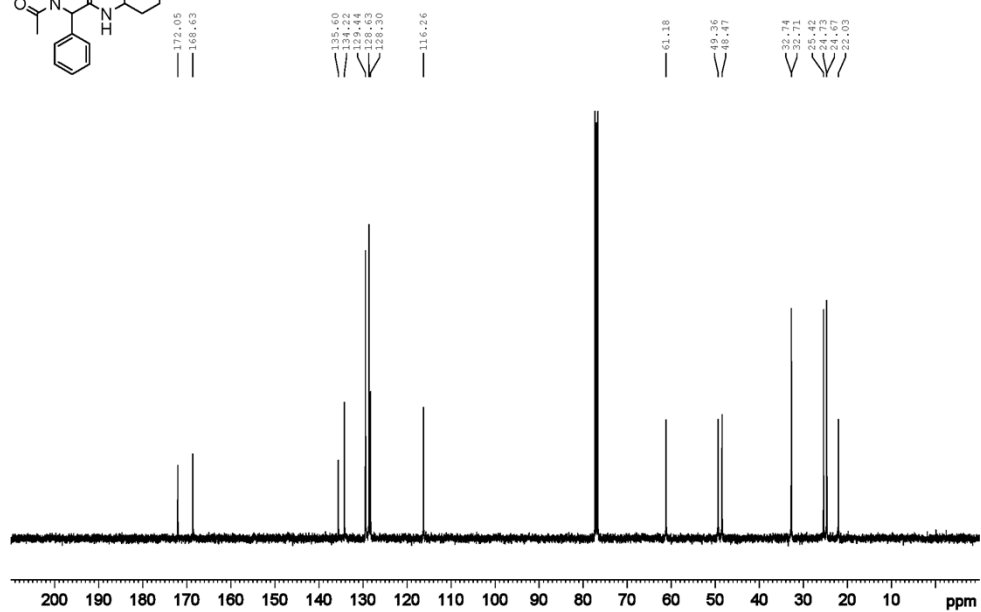
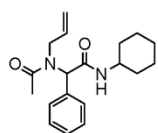
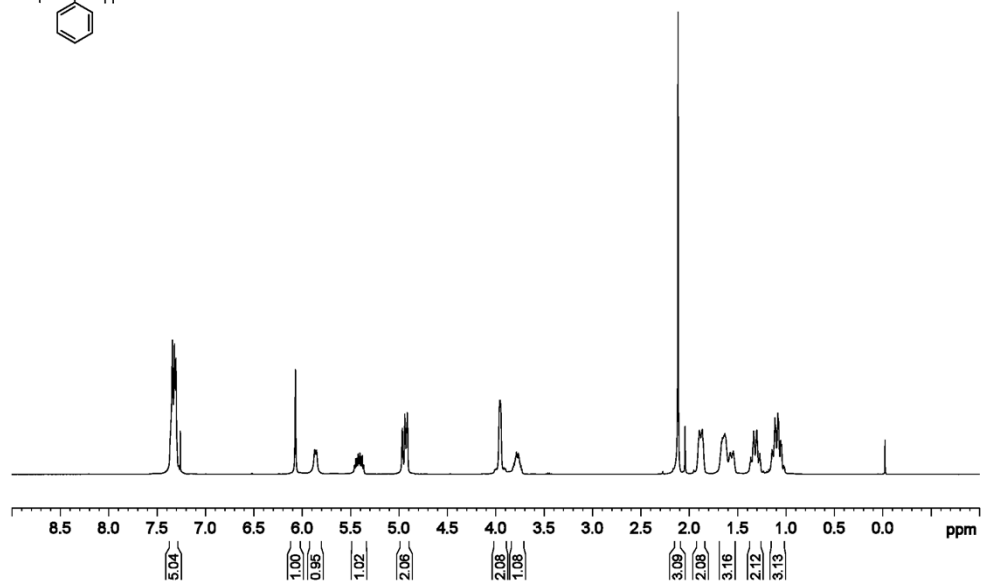
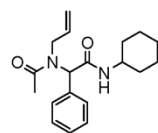
^1H NMR and ^{13}C NMR spectra of compound **2I**



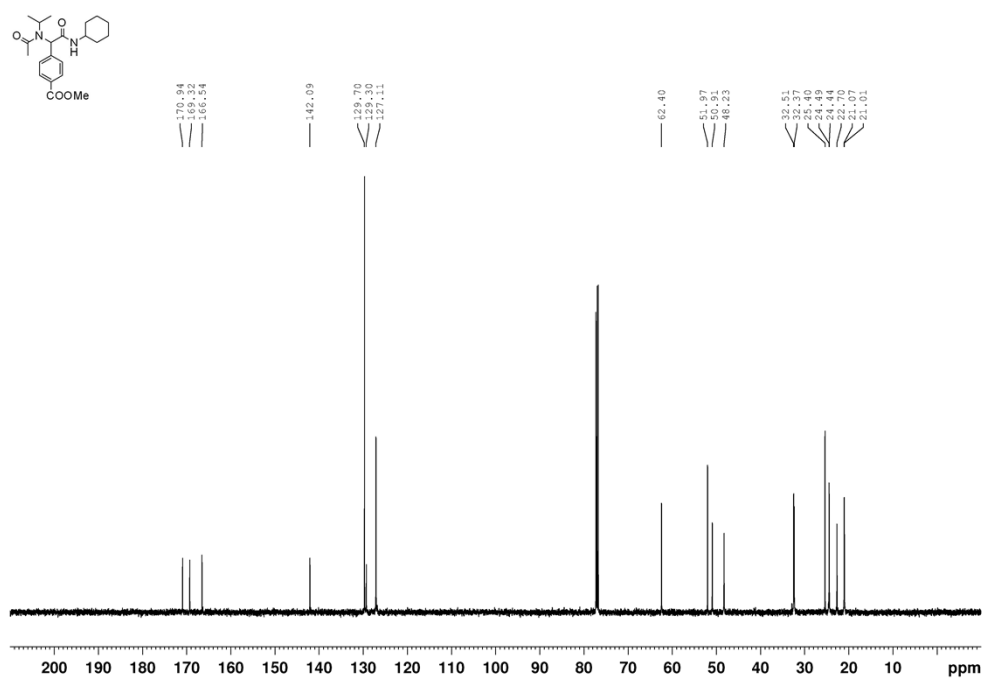
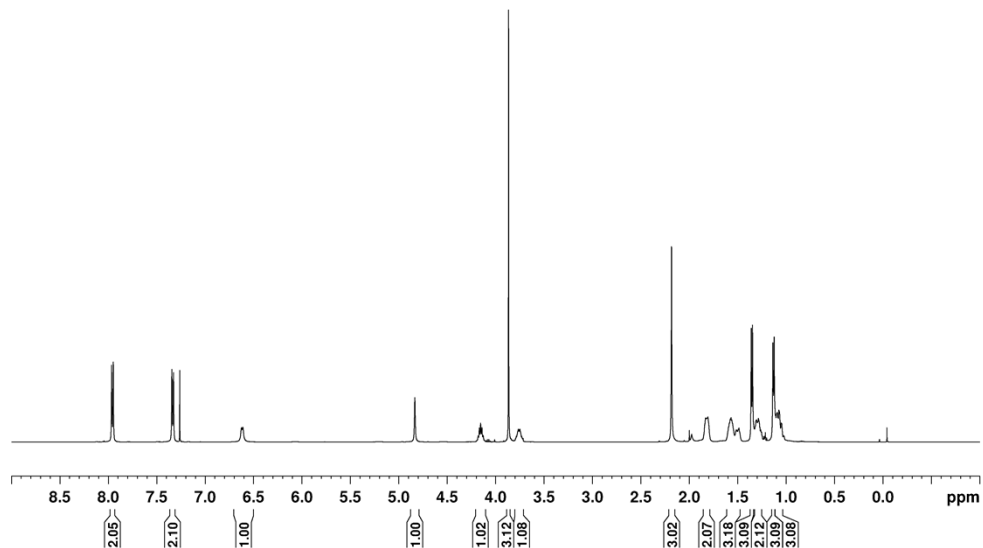
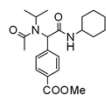
^1H NMR and ^{13}C NMR spectra of compound **2m**



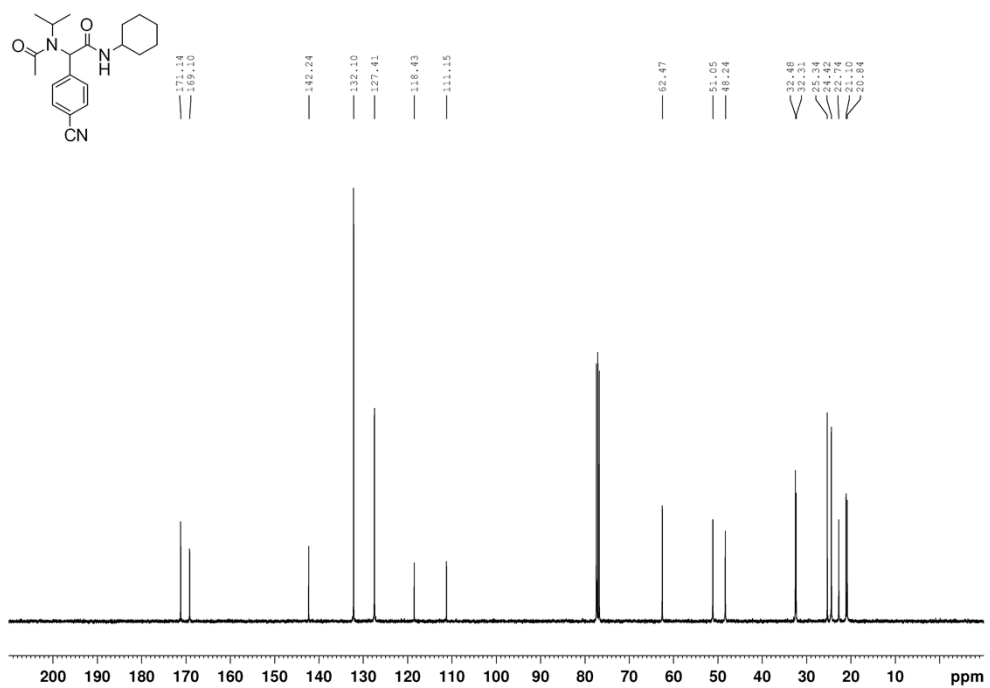
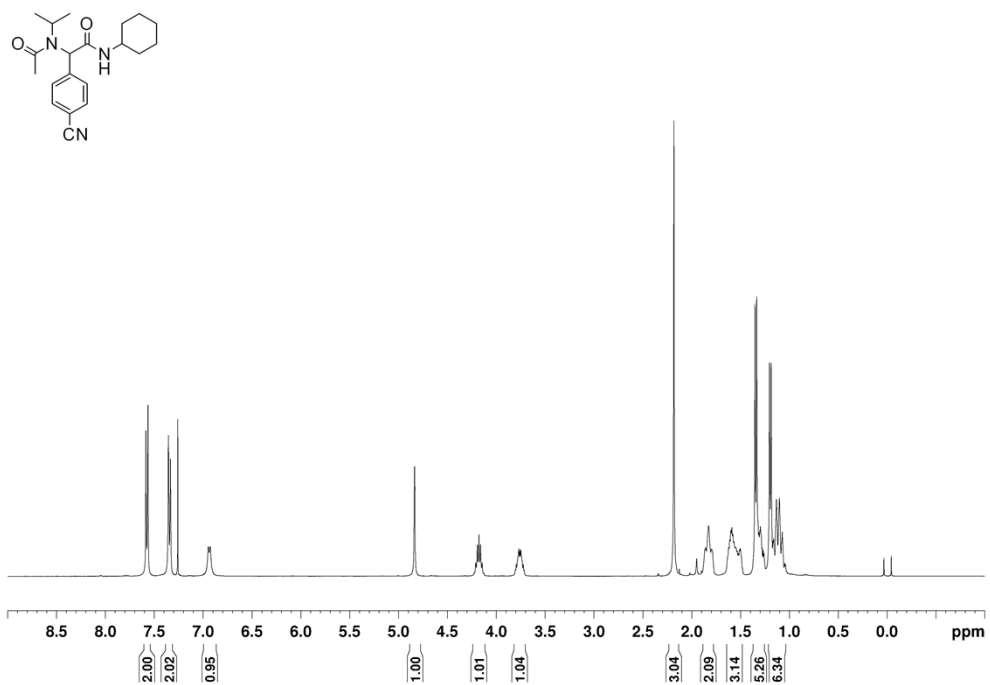
^1H NMR and ^{13}C NMR spectra of compound **2n**



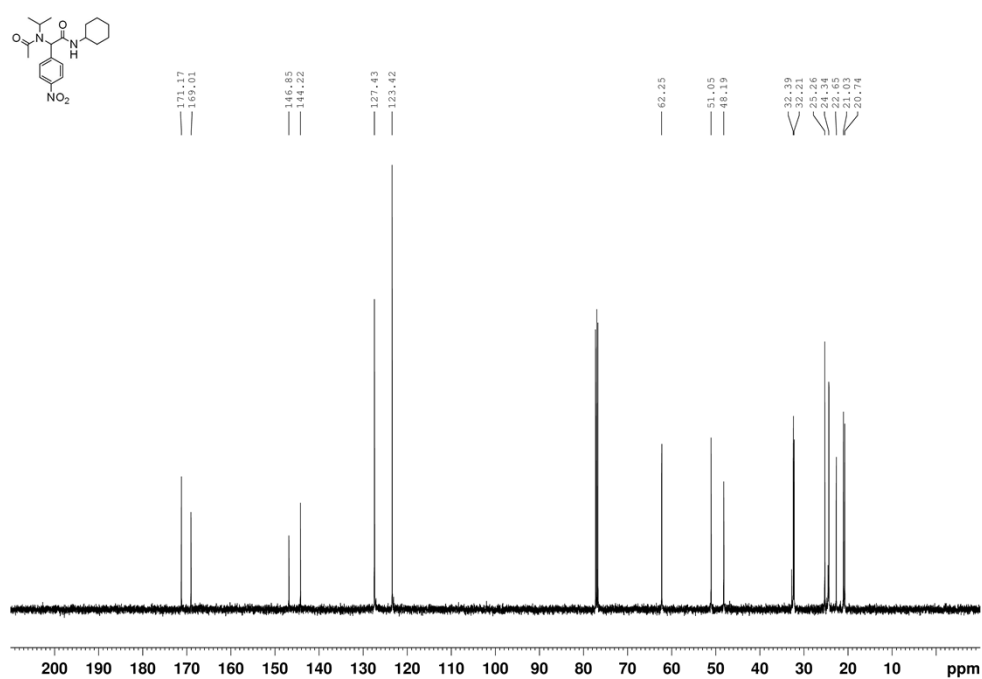
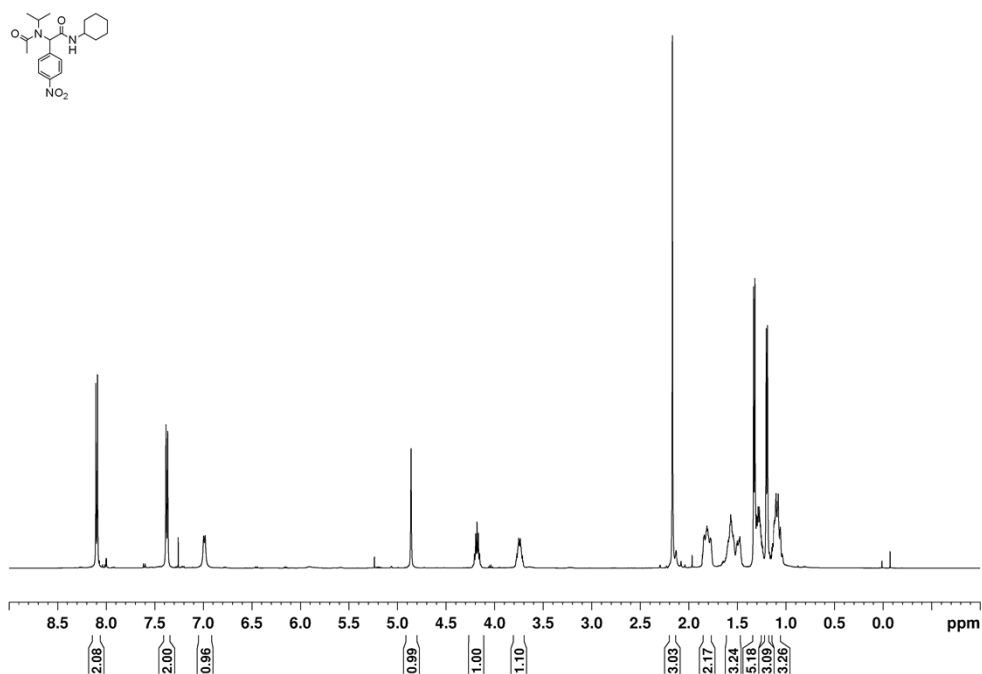
^1H NMR and ^{13}C NMR spectra of compound **2o**



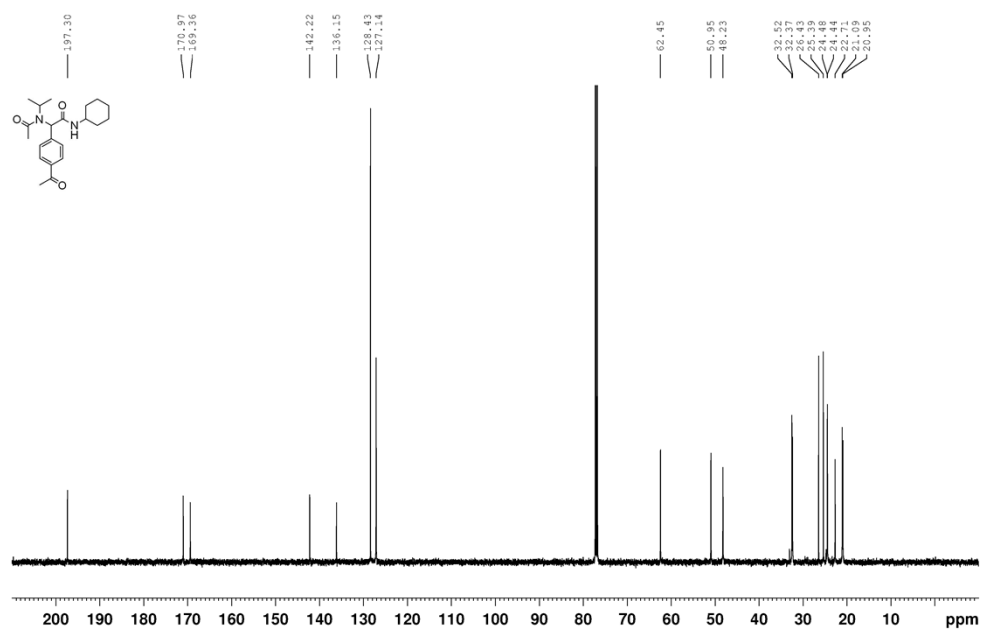
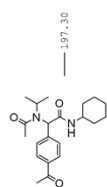
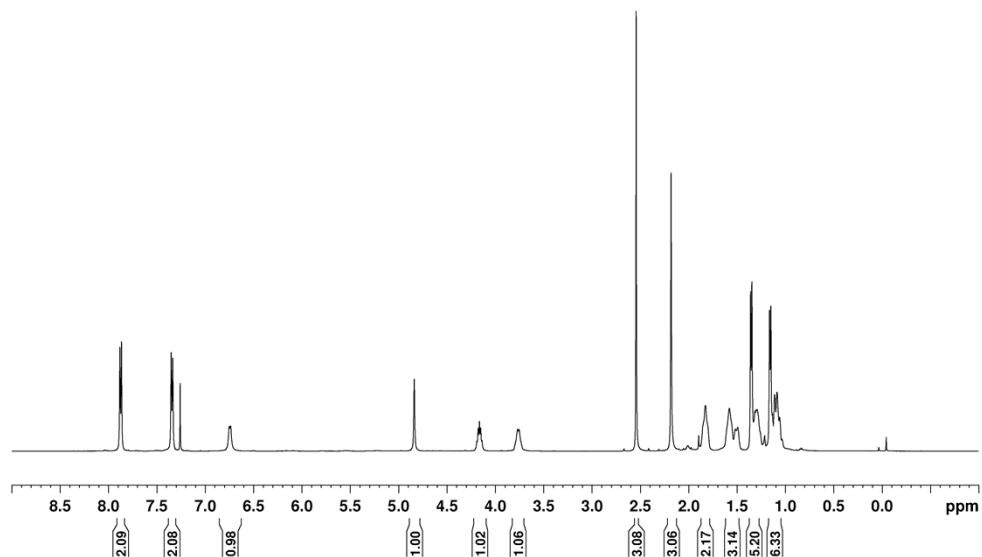
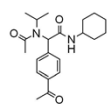
^1H NMR and ^{13}C NMR spectra of compound **2p**



^1H NMR and ^{13}C NMR spectra of compound **2q**



^1H NMR and ^{13}C NMR spectra of compound **2r**



^1H NMR and ^{13}C NMR spectra of compound **2s**

