

Supplementary Material

Acid-catalysed N-alkylation of anilines with activated 1-*H*-indanol

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Deuterium Experiment:

After adding 3-4 drops of D₂O to the compound **3k** and constantly stirring it for 12 hours, the ¹H NMR spectrum was recorded. The spectrum of the deuterated product **3k'** showed the complete disappearance of the N-H proton at $\delta = 3.90$ ppm (**Figure 1**).

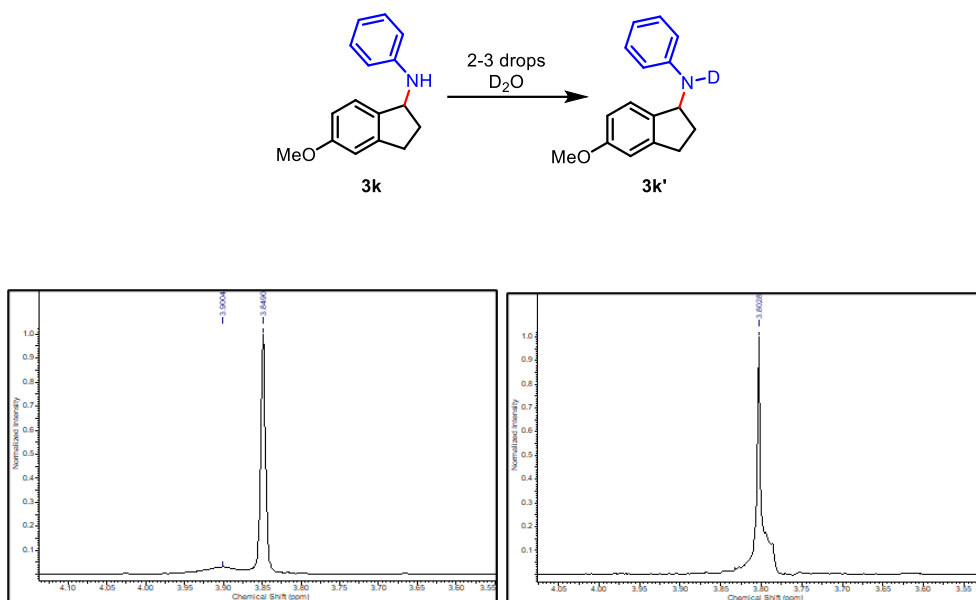
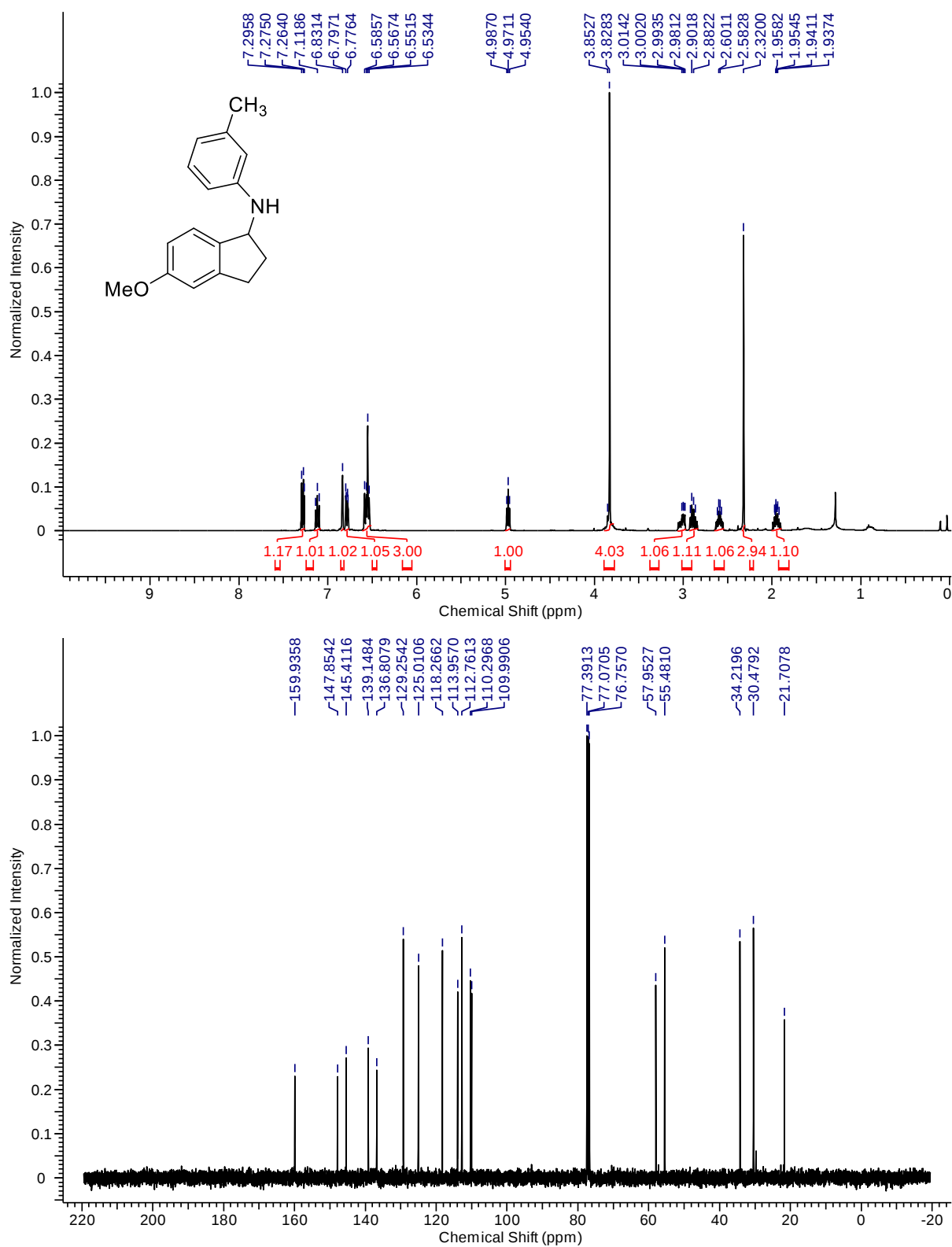
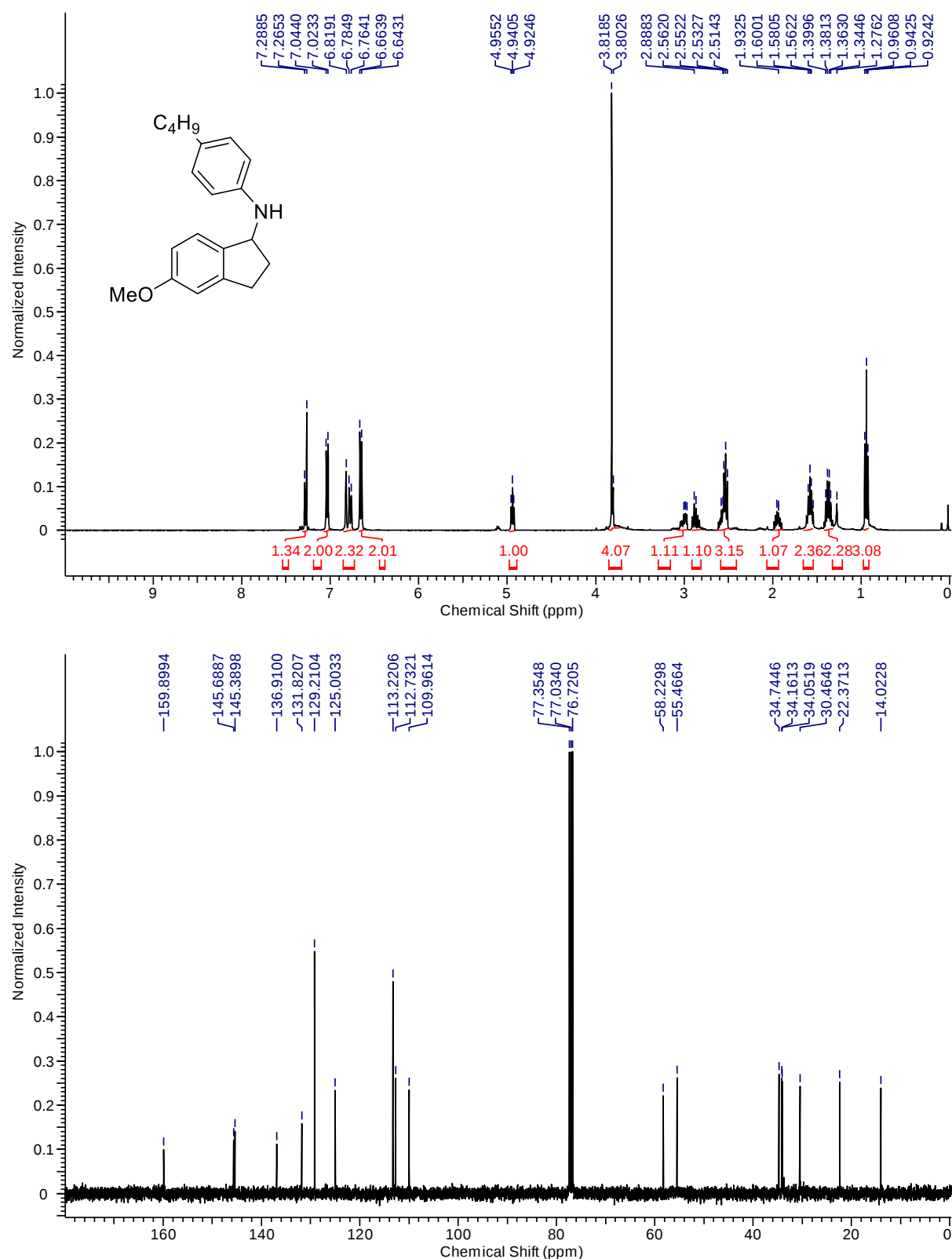


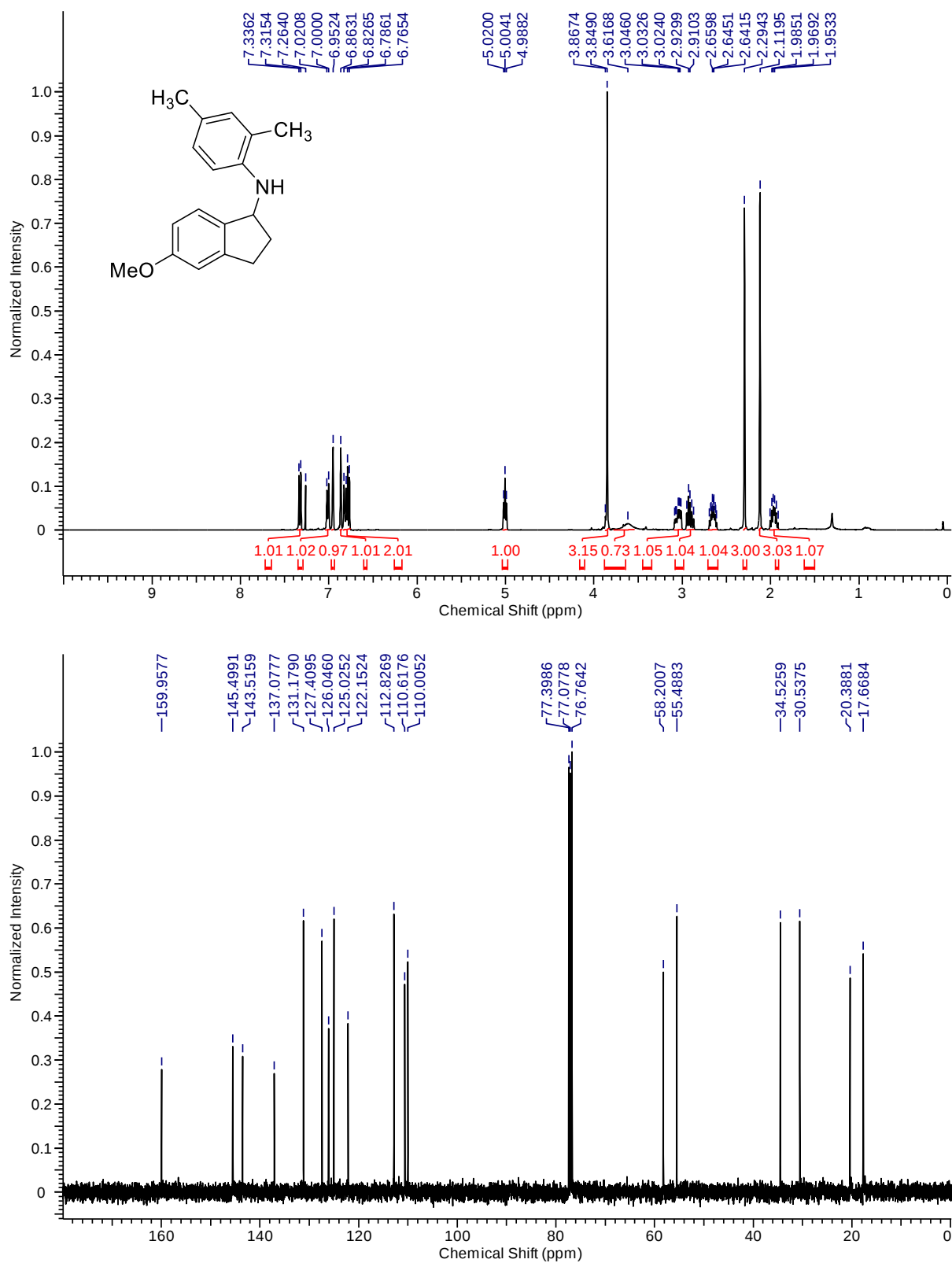
Figure 1. (a) Spectrum of **3k** before adding D₂O (b) Spectrum of **3k'** after adding D₂O

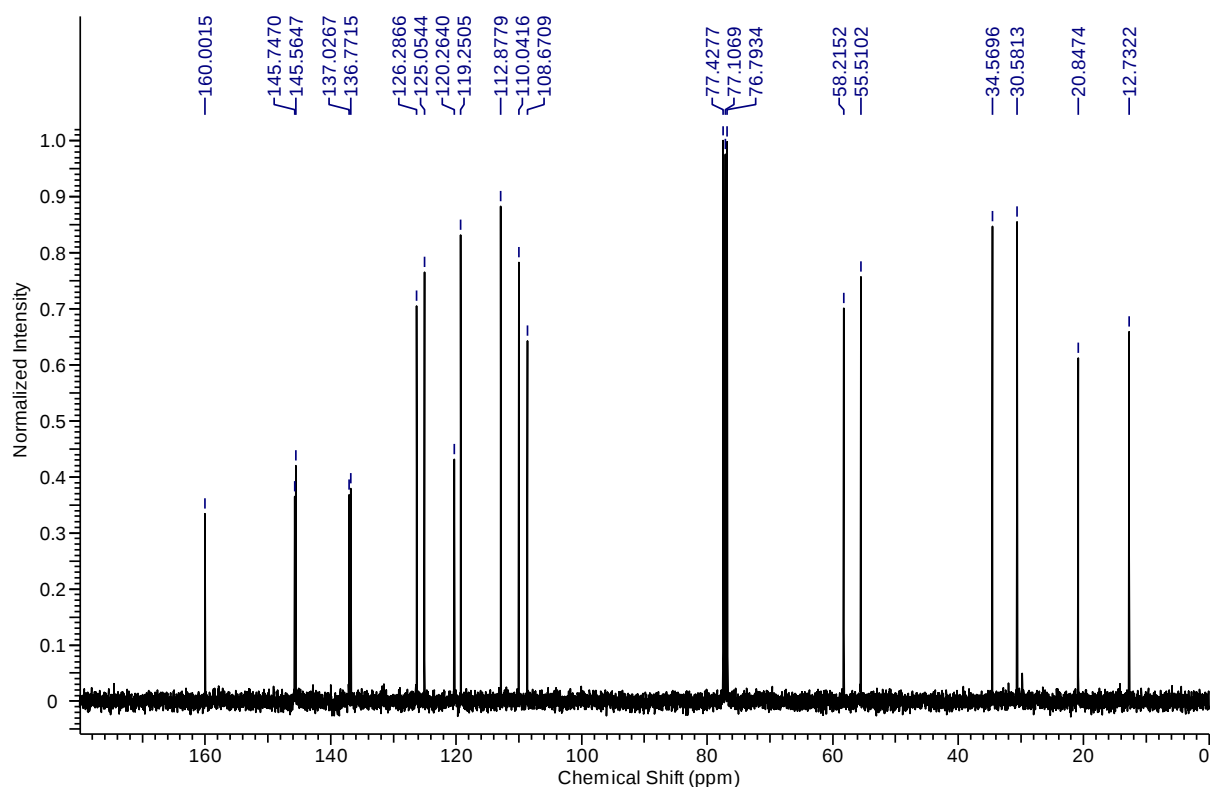
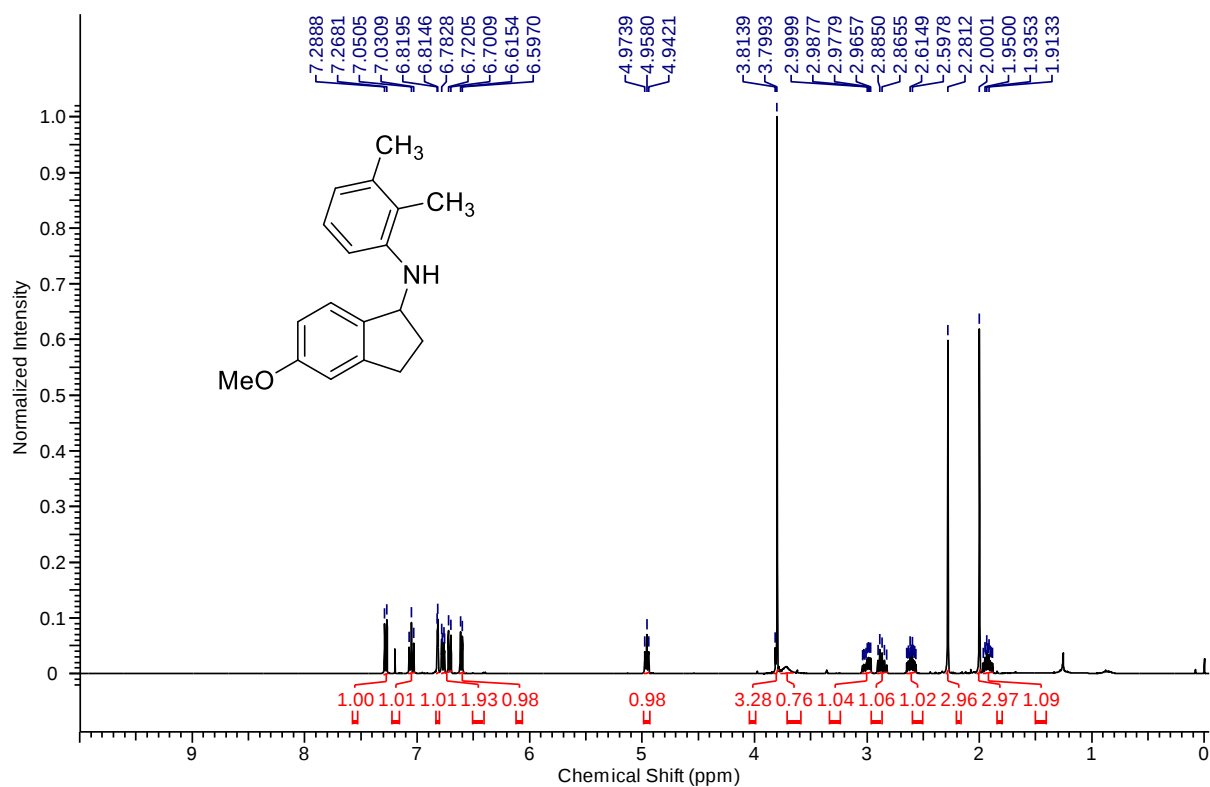
NMR Spectrums

^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3a** in CDCl_3

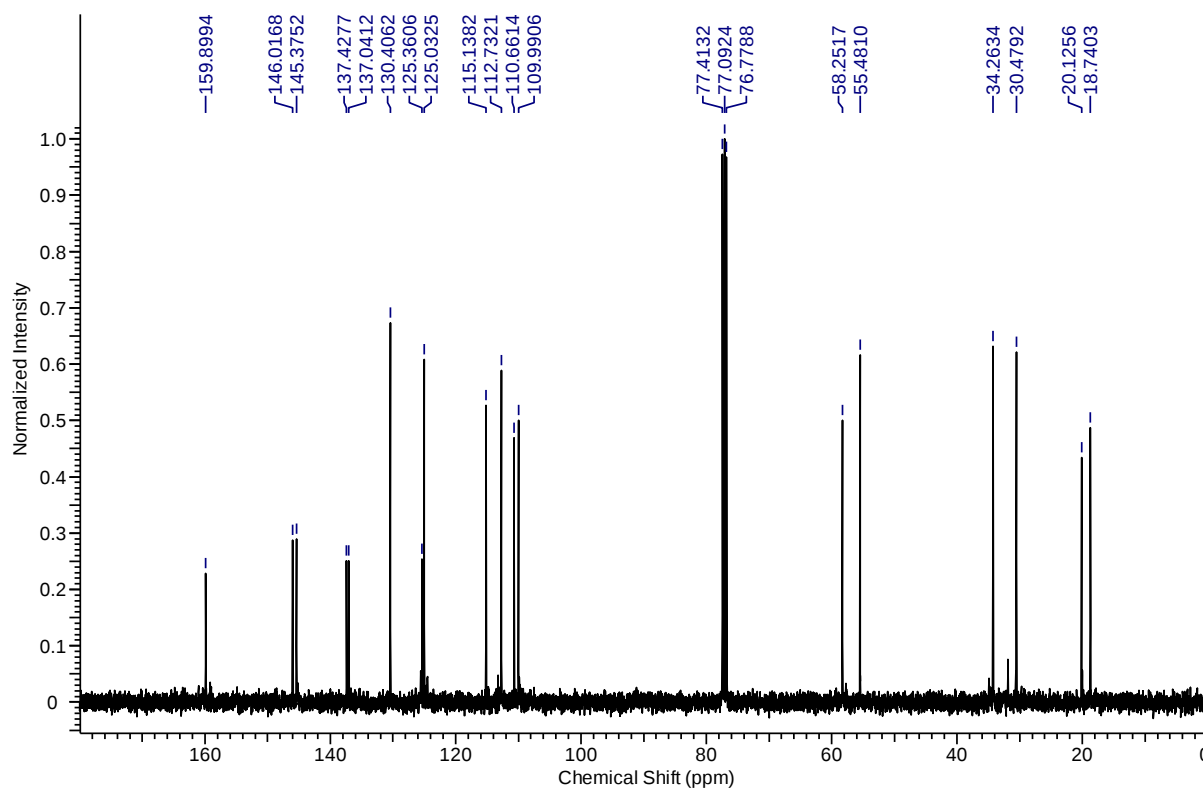
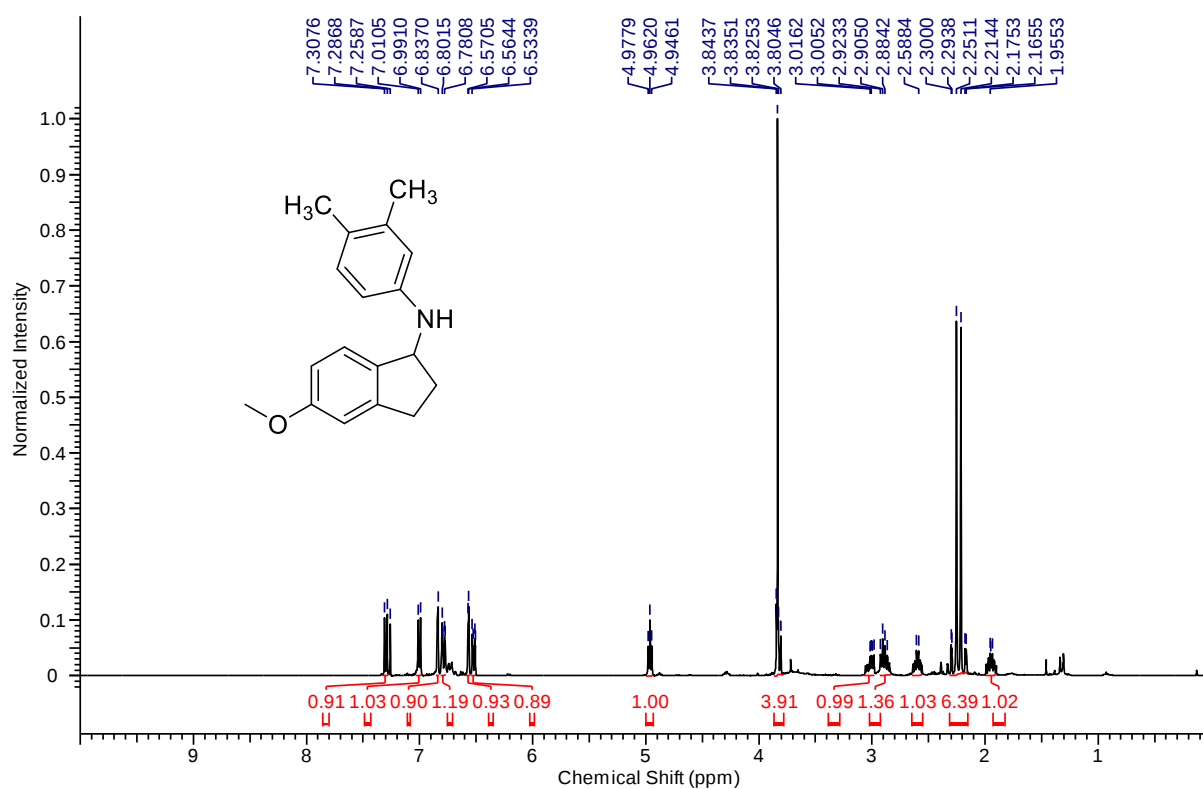


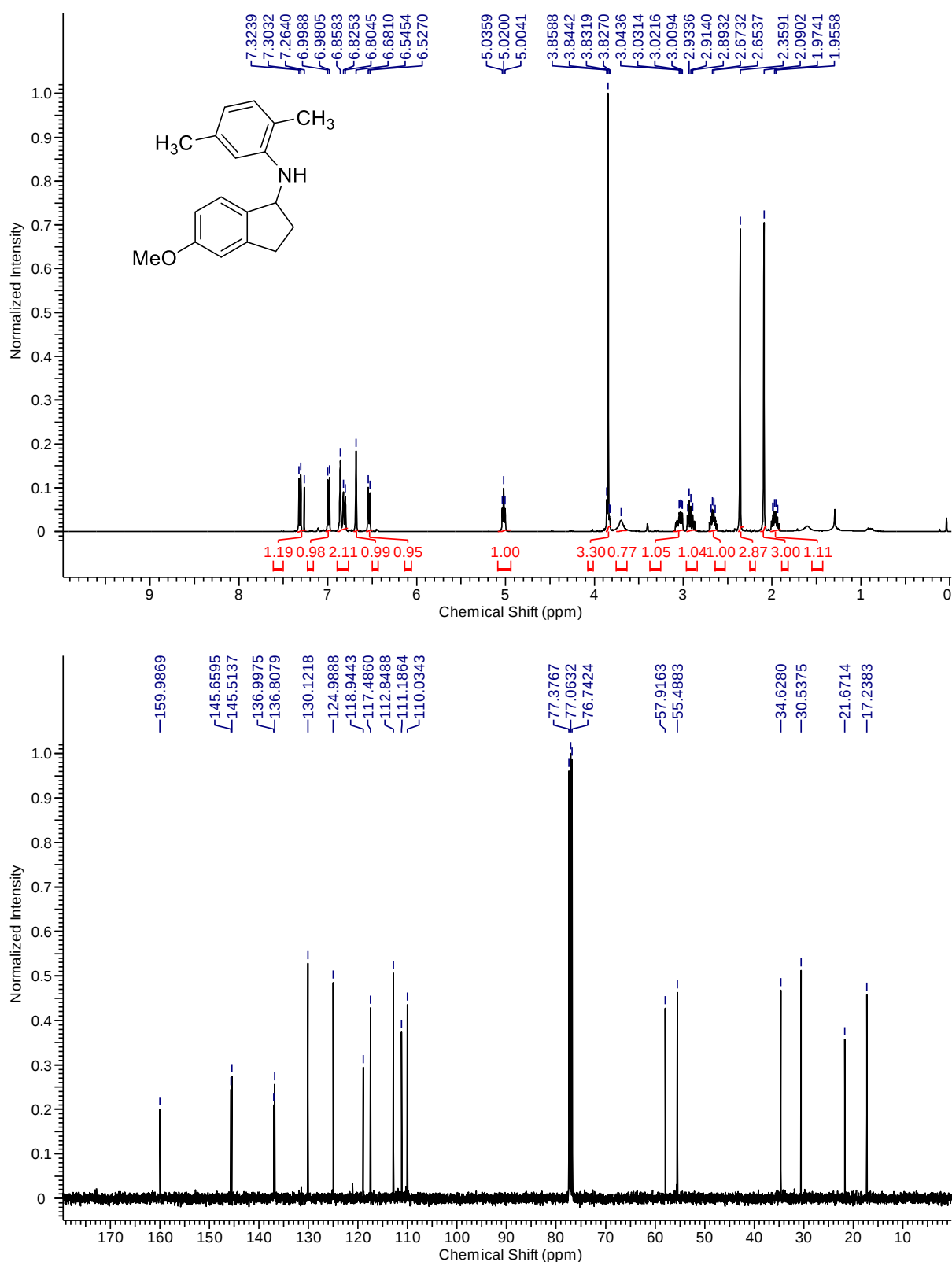
¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of compound **3b** in CDCl₃

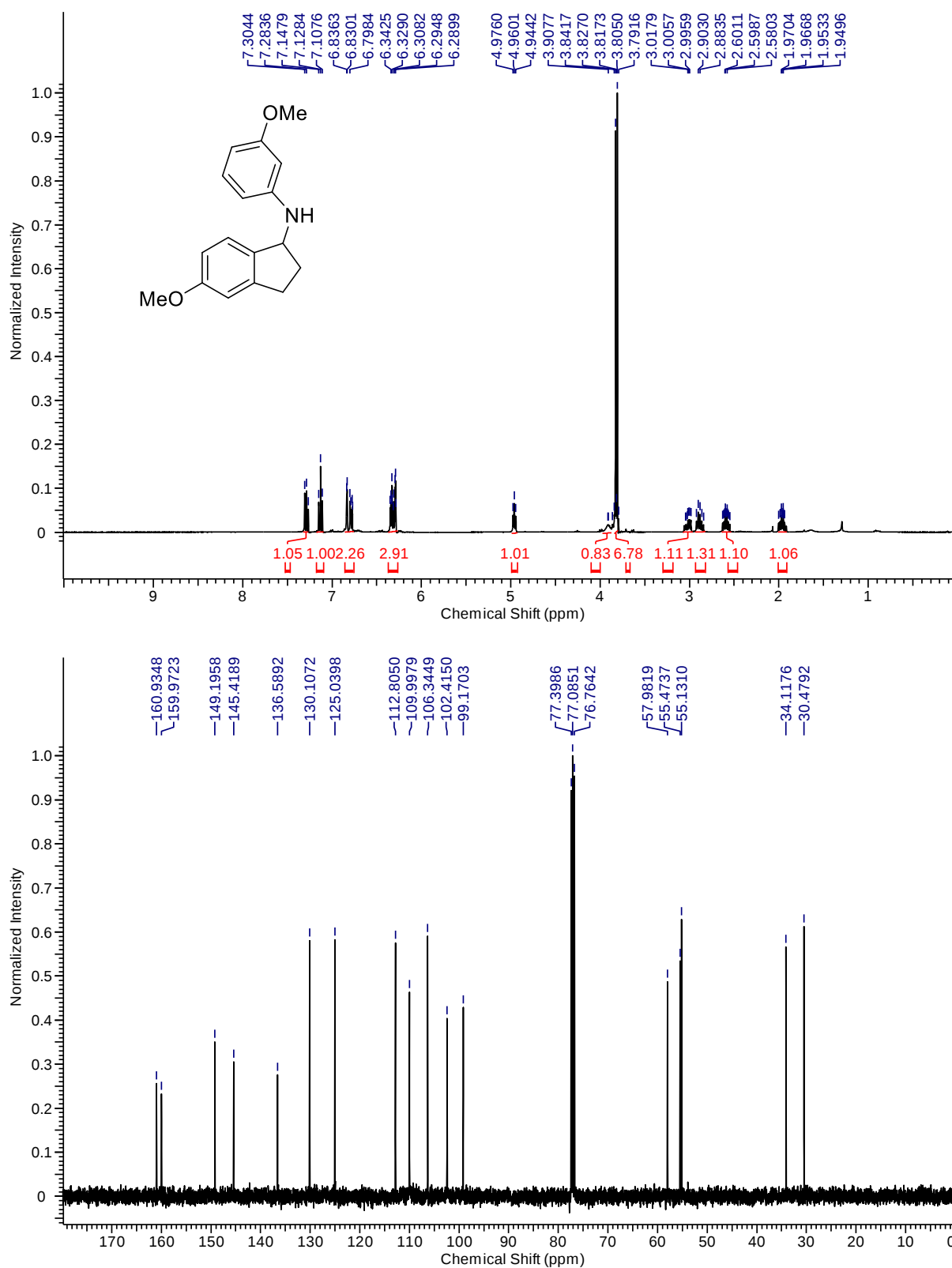
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3c** in CDCl_3 

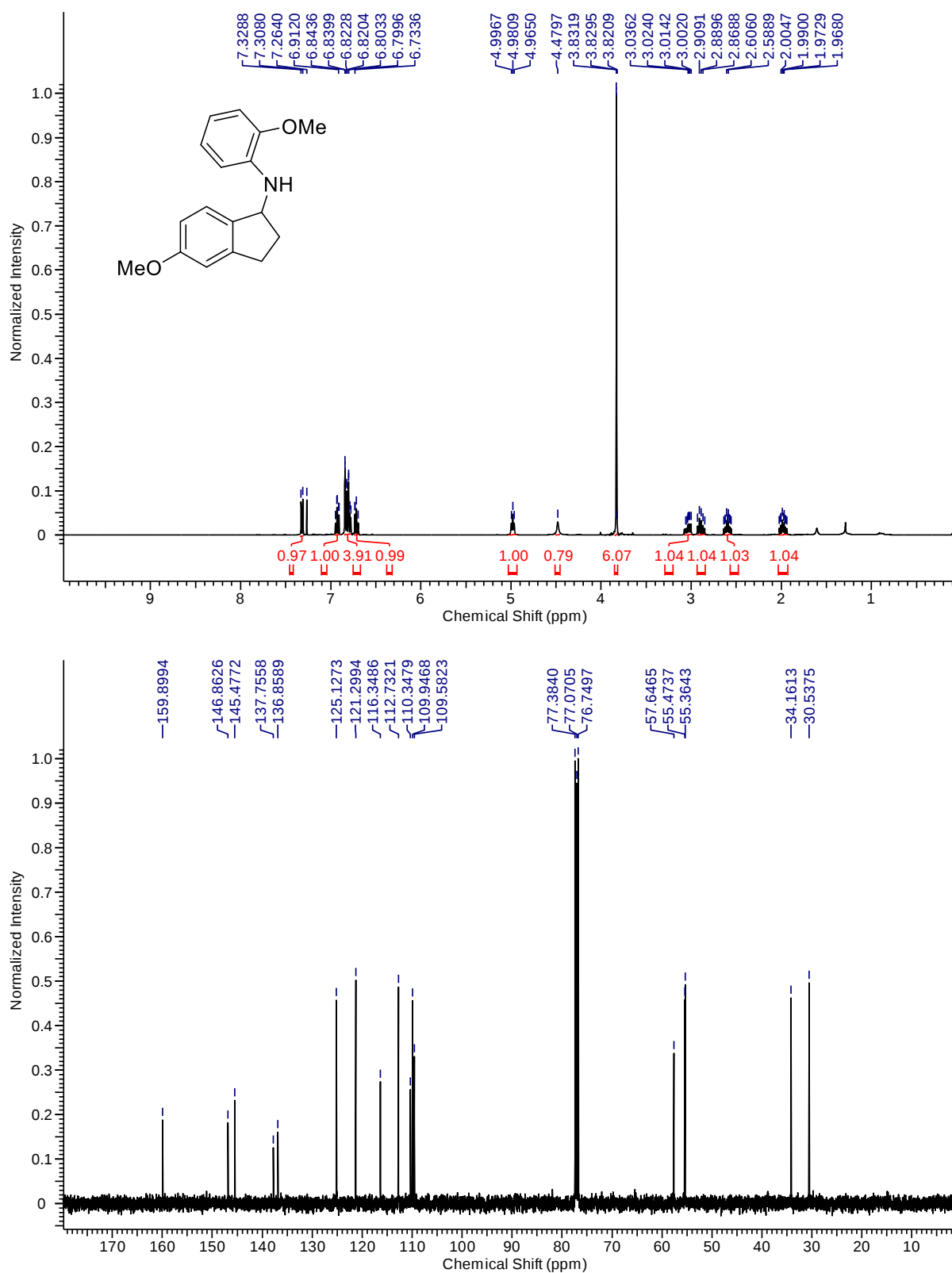
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3d** in CDCl_3 

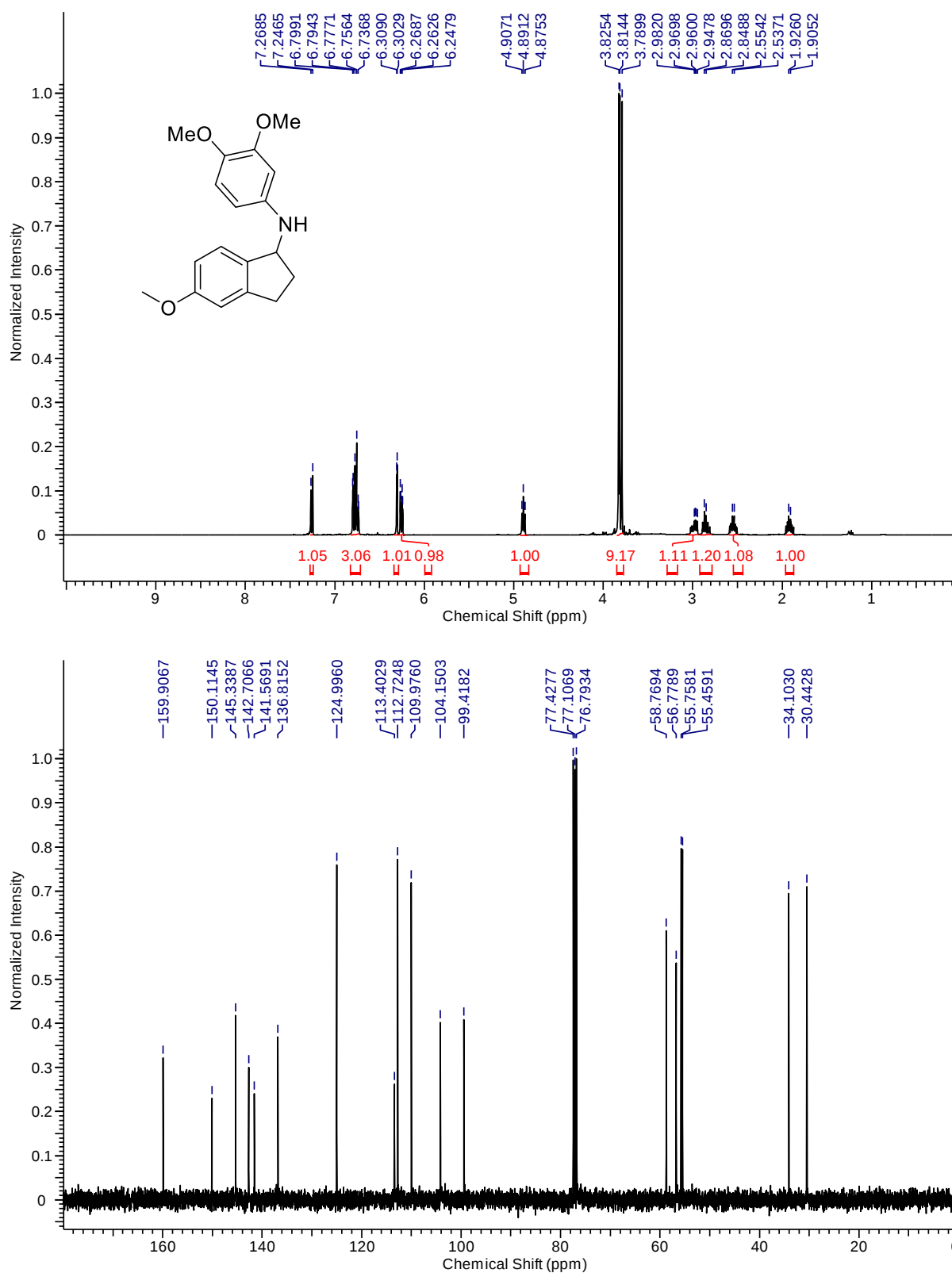
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3e** in CDCl_3

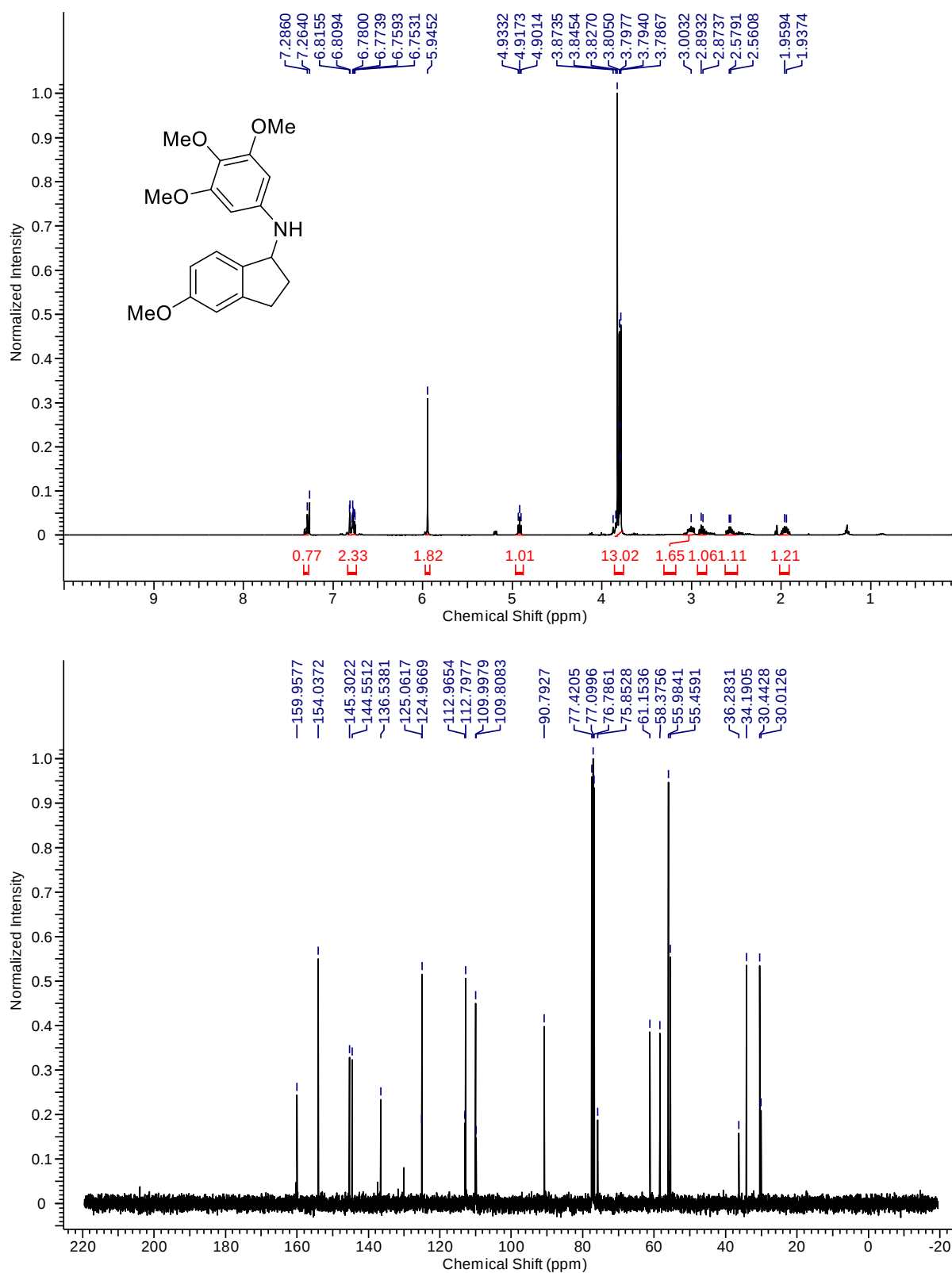


^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3f** in CDCl_3 

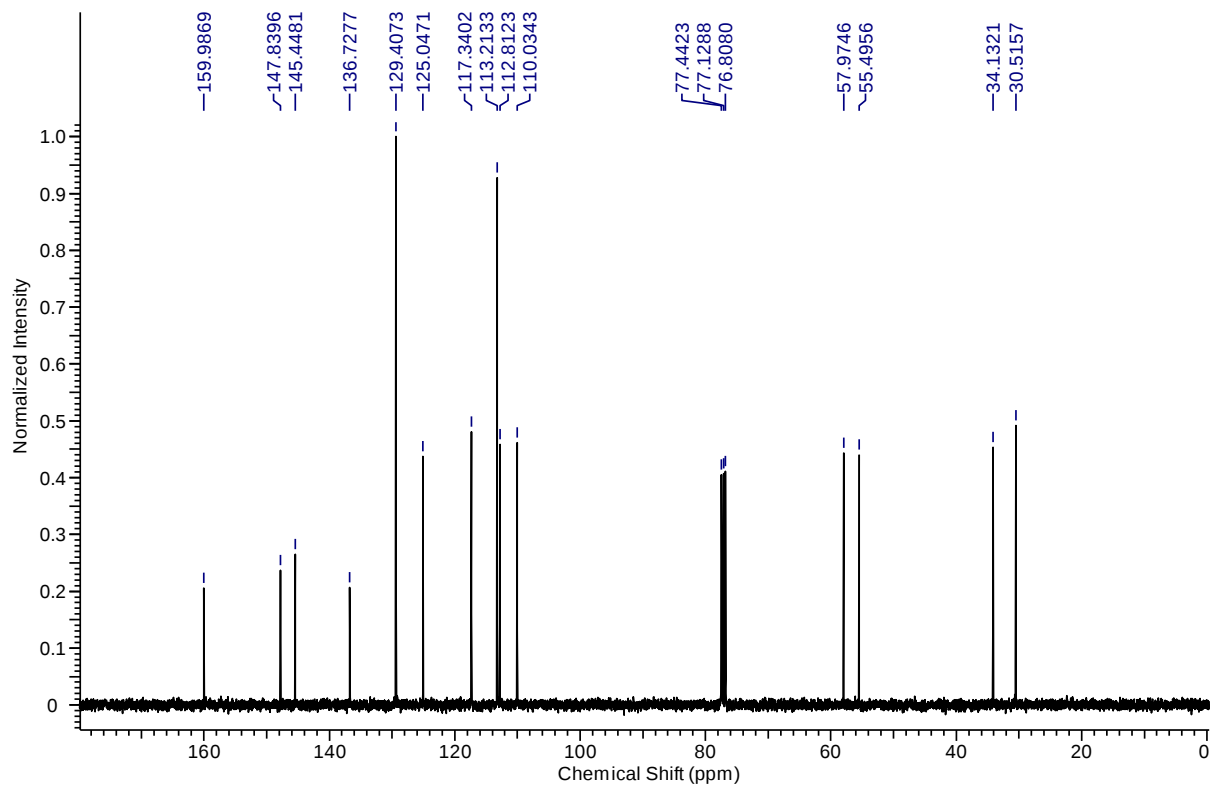
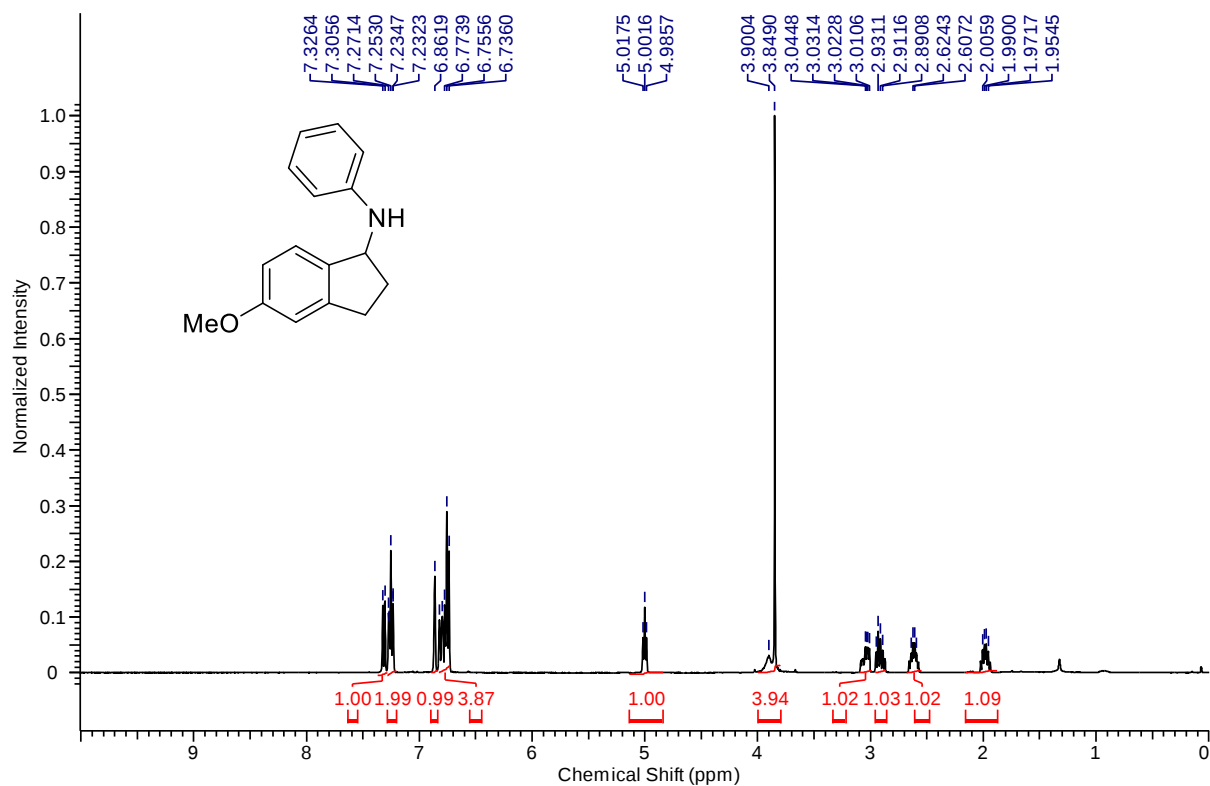
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3g** in CDCl_3 

^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3h** in CDCl_3 

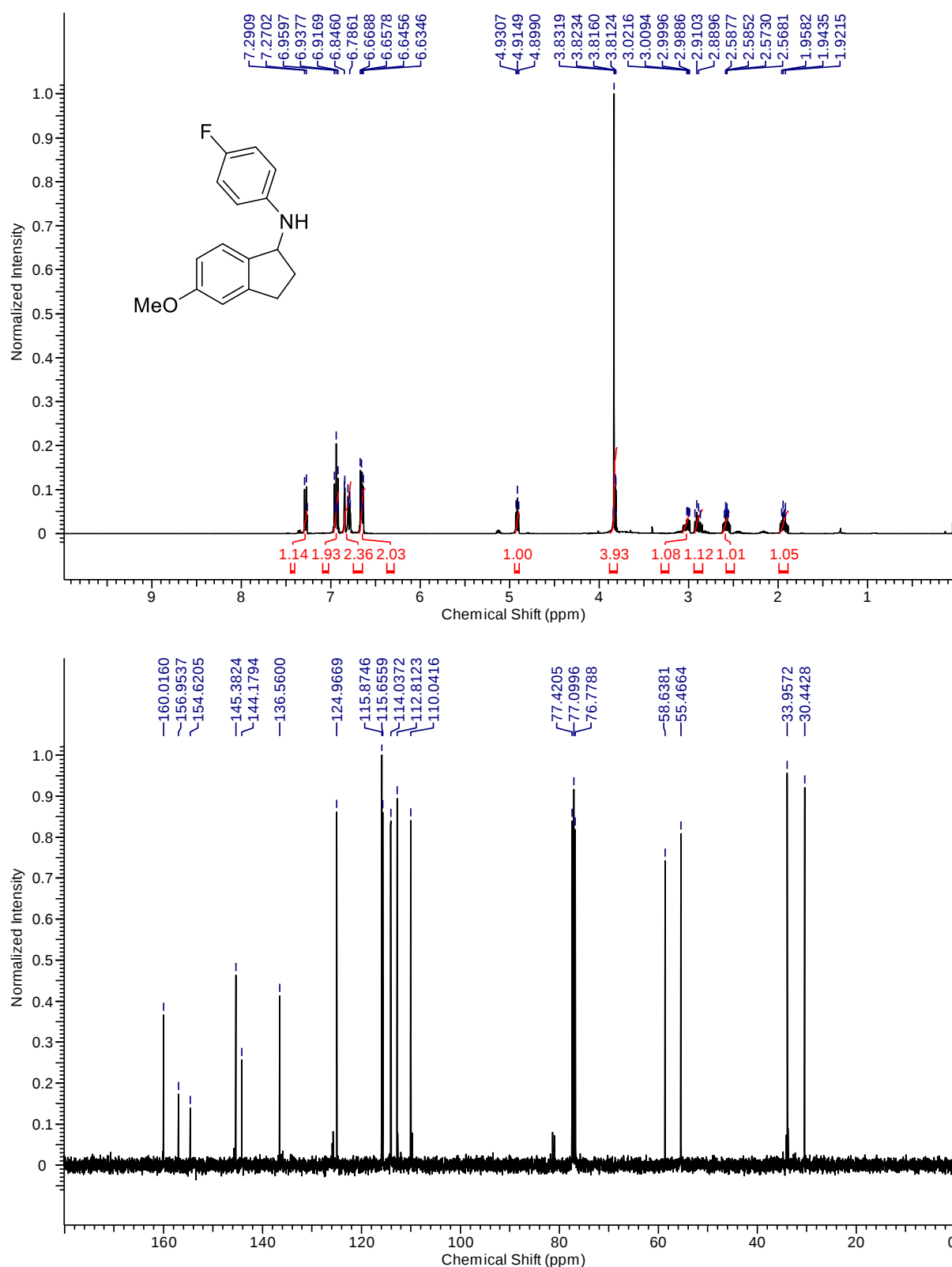
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3i** in CDCl_3 

^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3j** in CDCl_3 

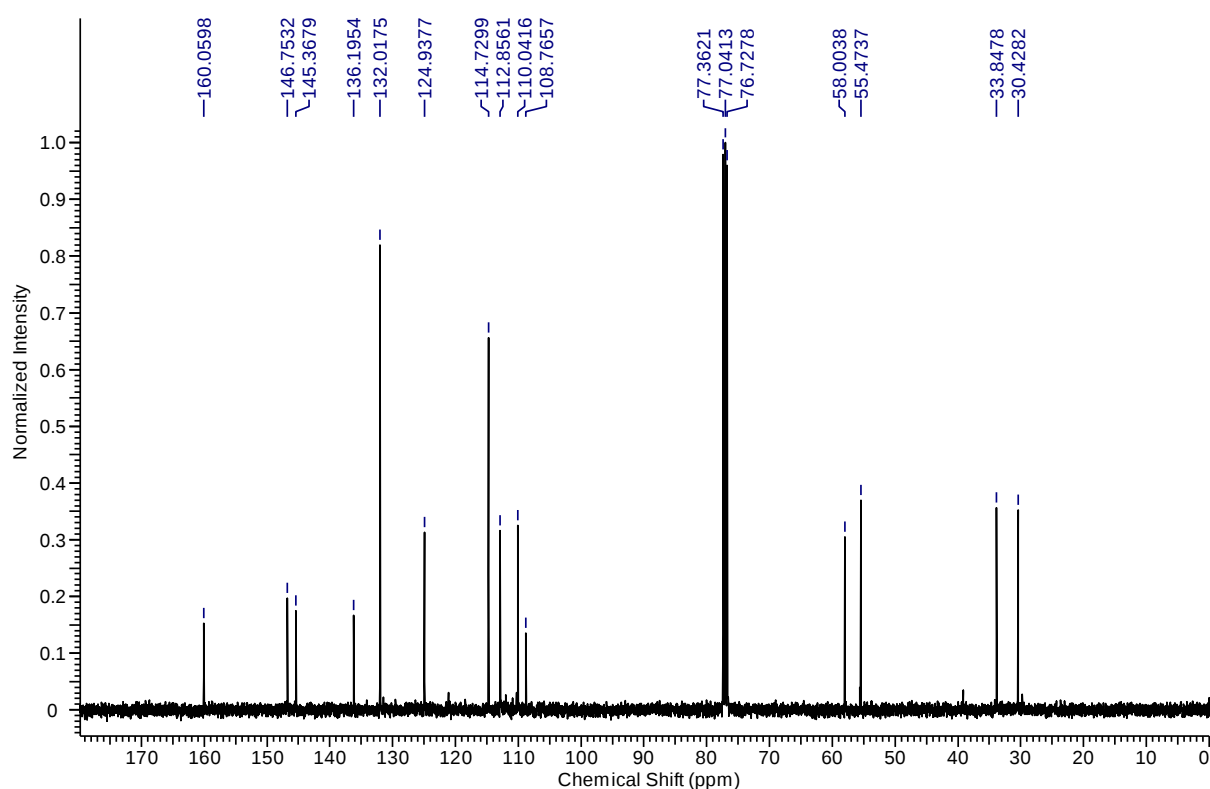
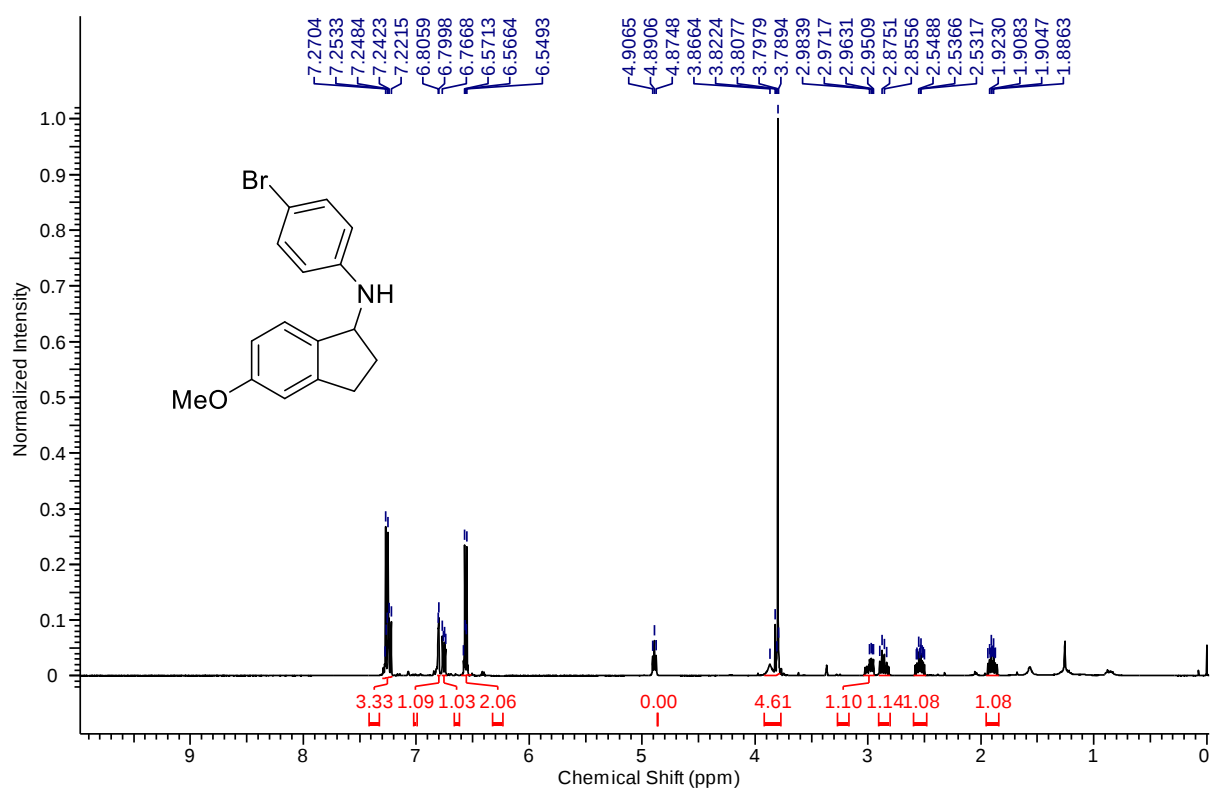
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3k** in CDCl_3



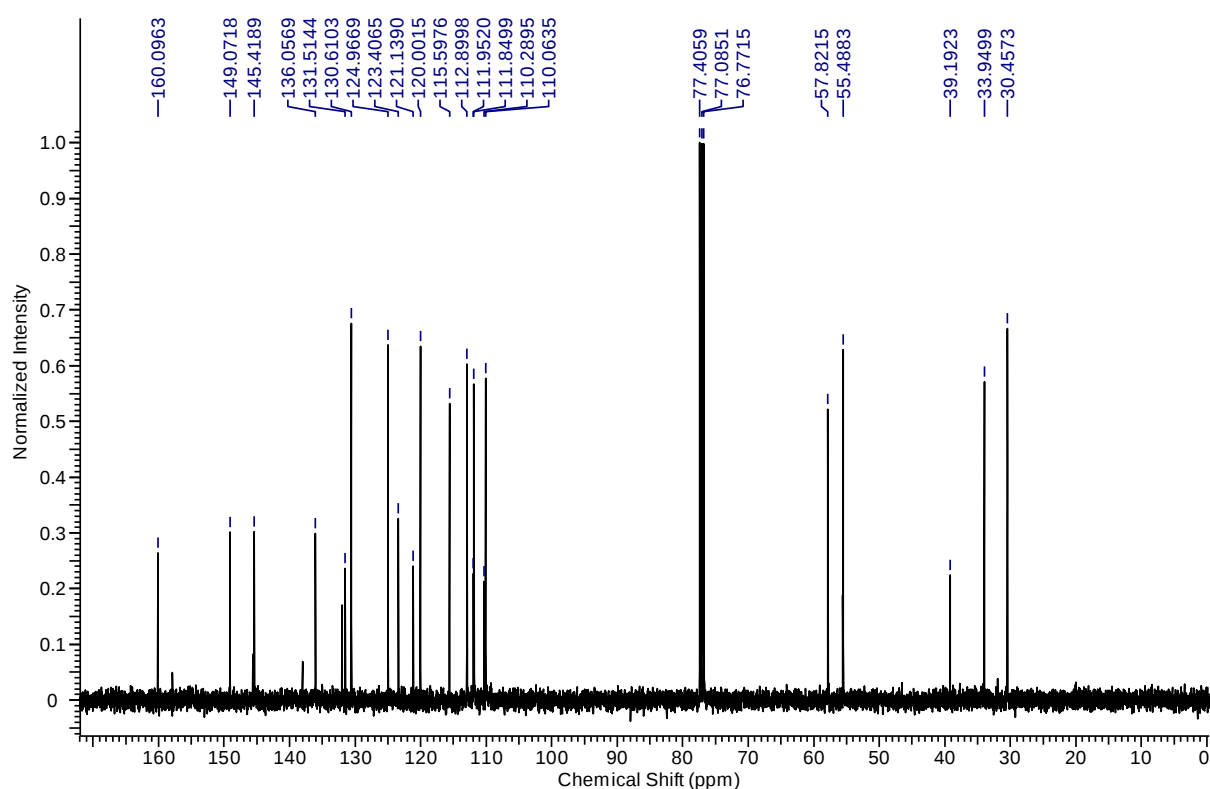
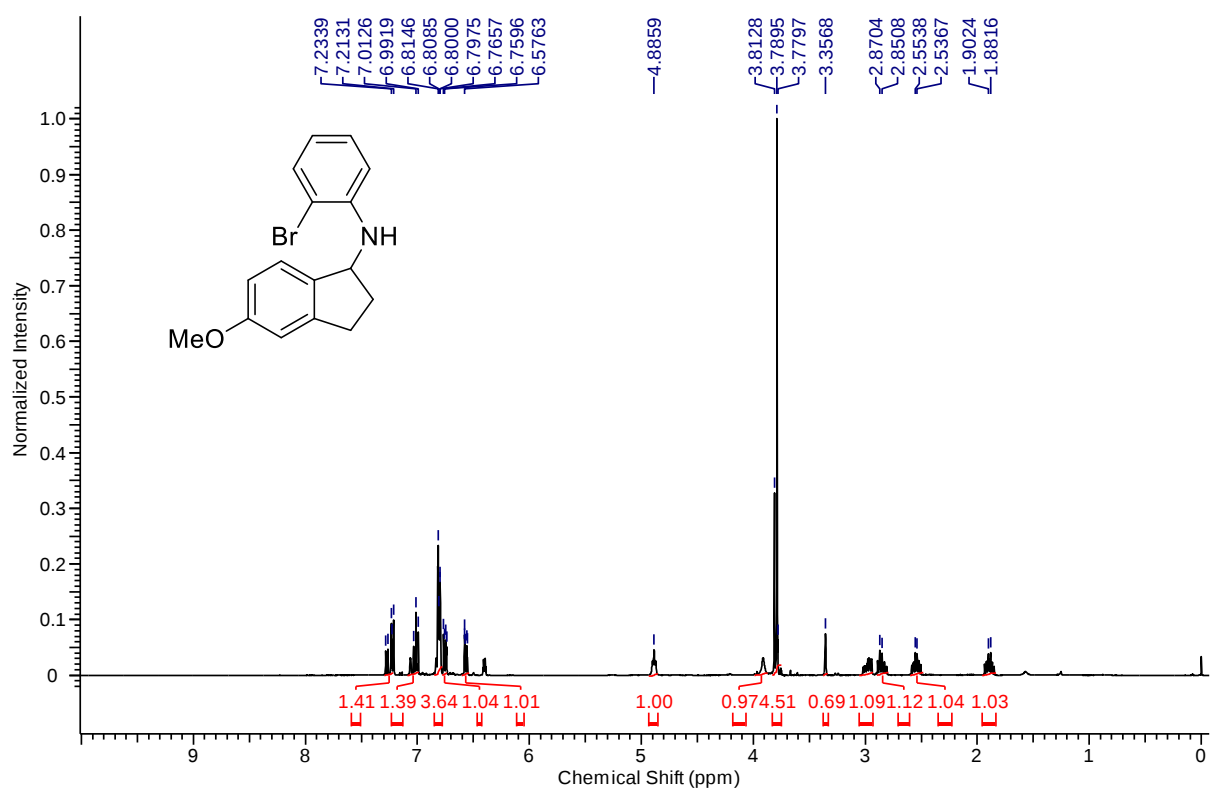
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3I** in CDCl_3



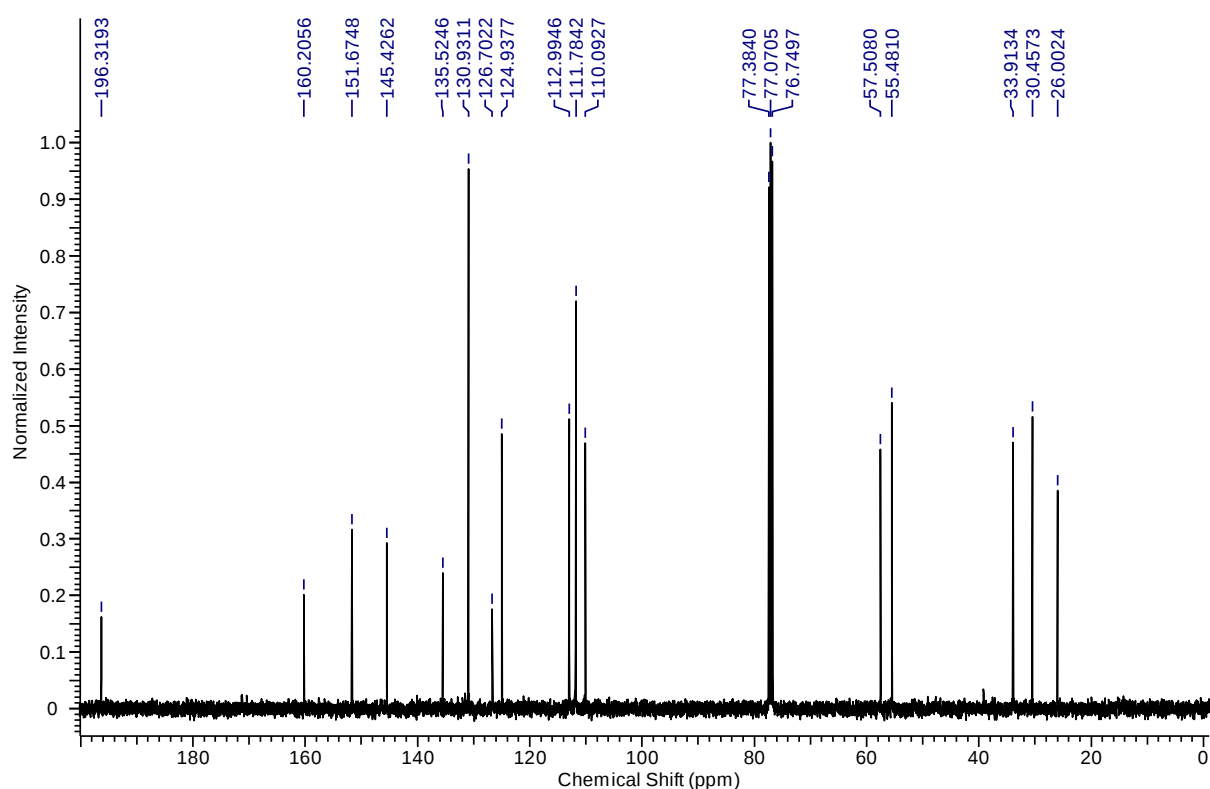
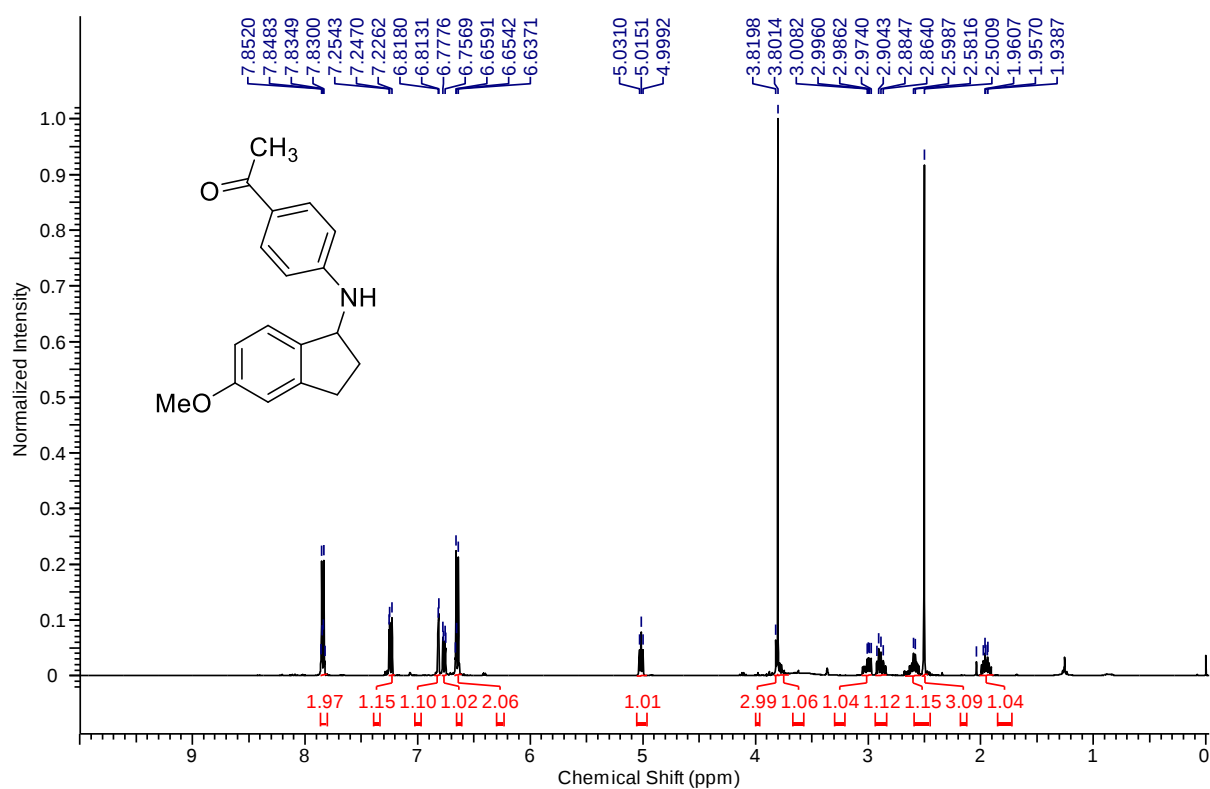
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3m** in CDCl_3



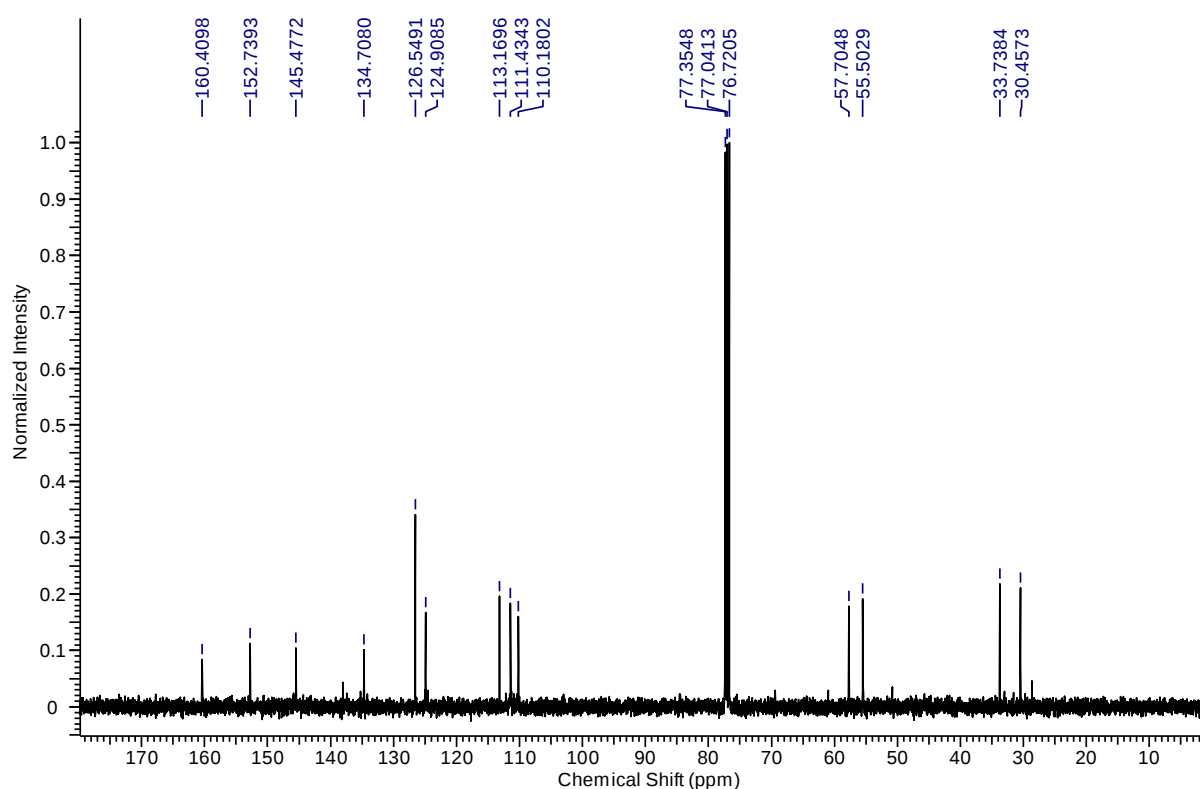
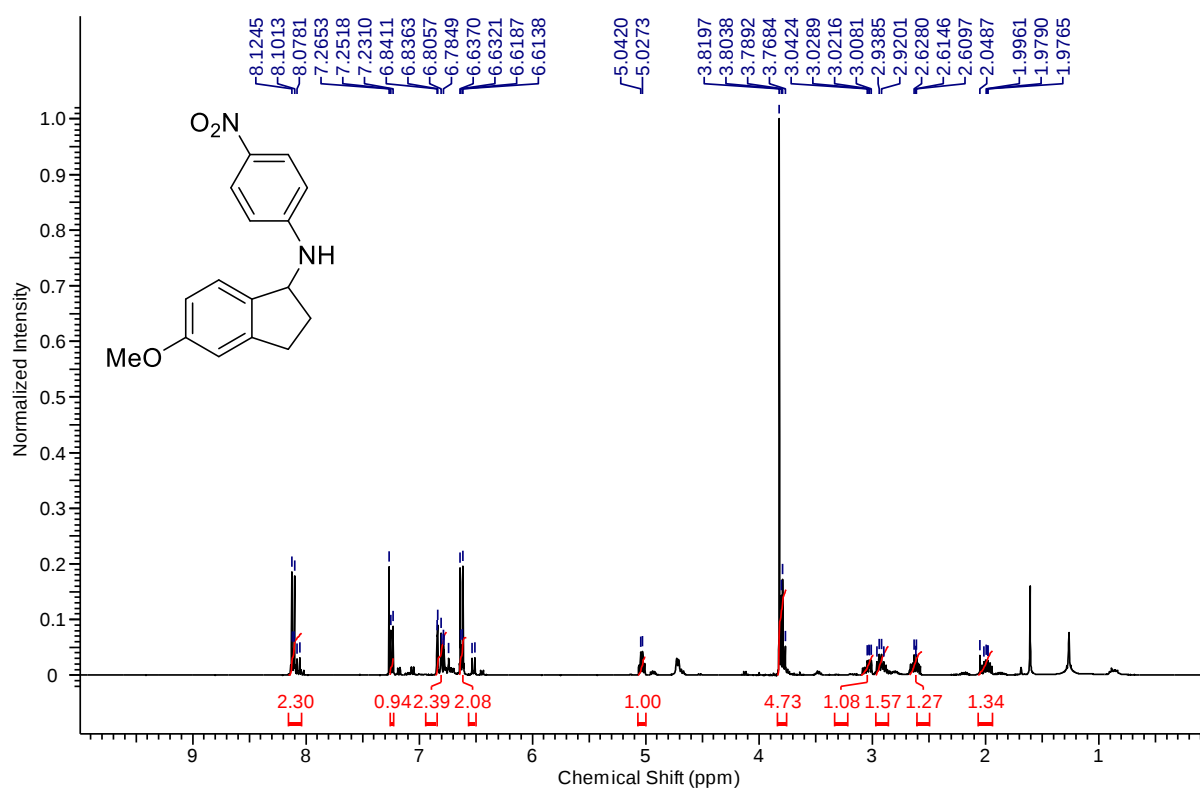
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3n** in CDCl_3



^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3o** in CDCl_3



^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3p** in CDCl_3



^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **3q** in CDCl_3

