

SUPPORTING INFORMATION

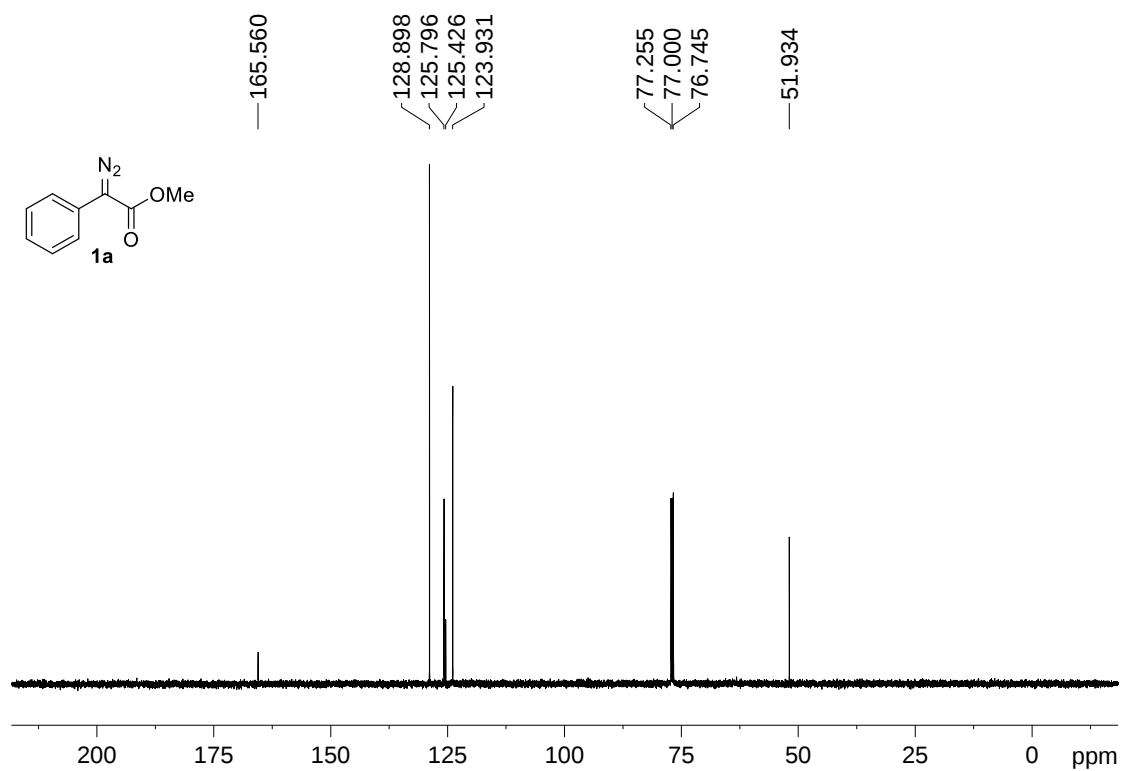
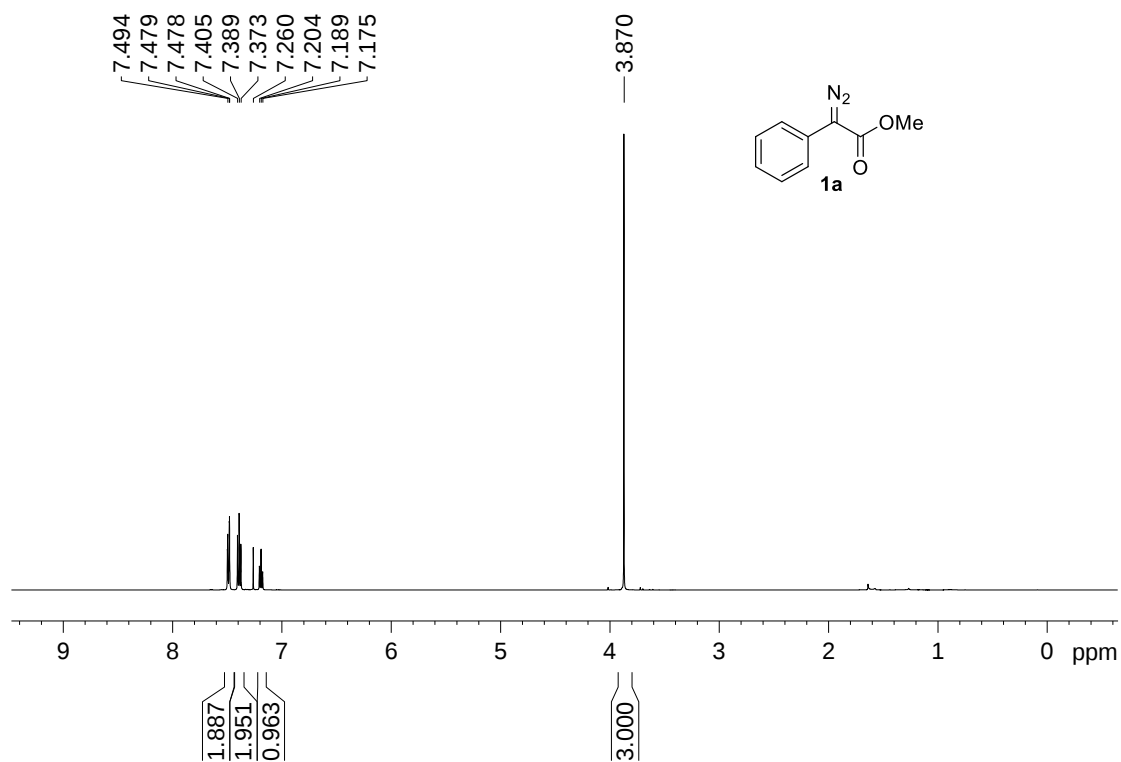
Reduction of the diazo functionality of α -diazocarbonyl compounds into a methylene group by NH_3BH_3 or NaBH_4 catalyzed by Au nanoparticles

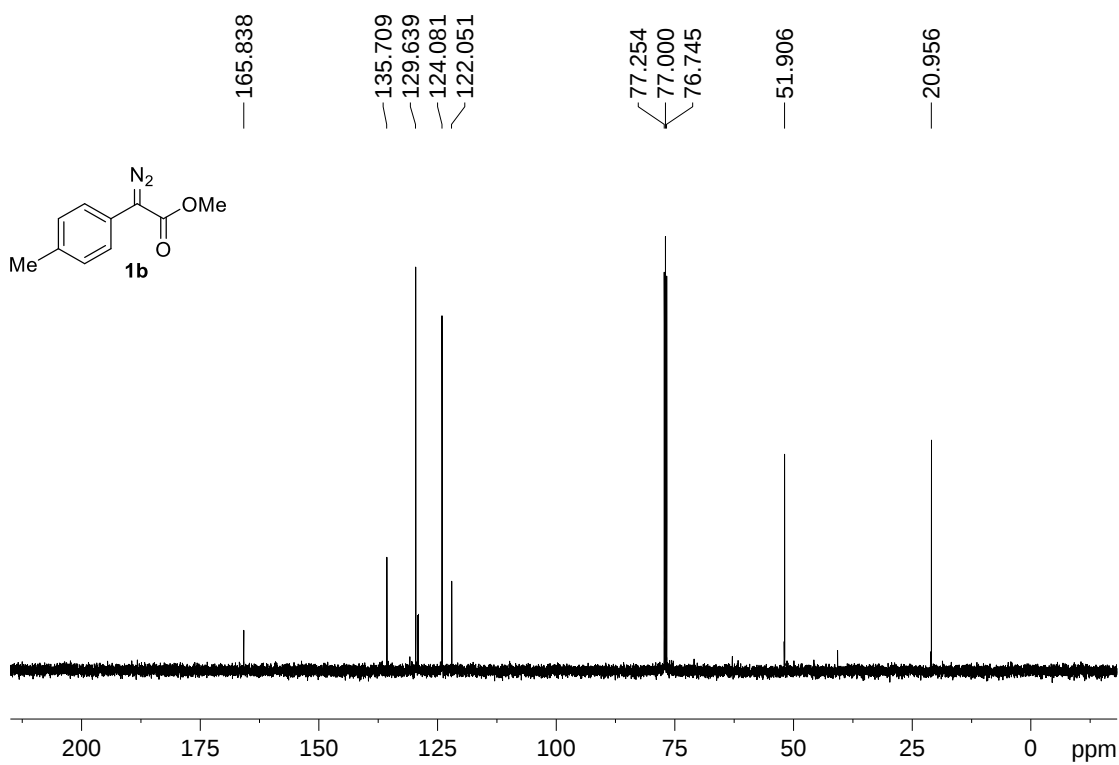
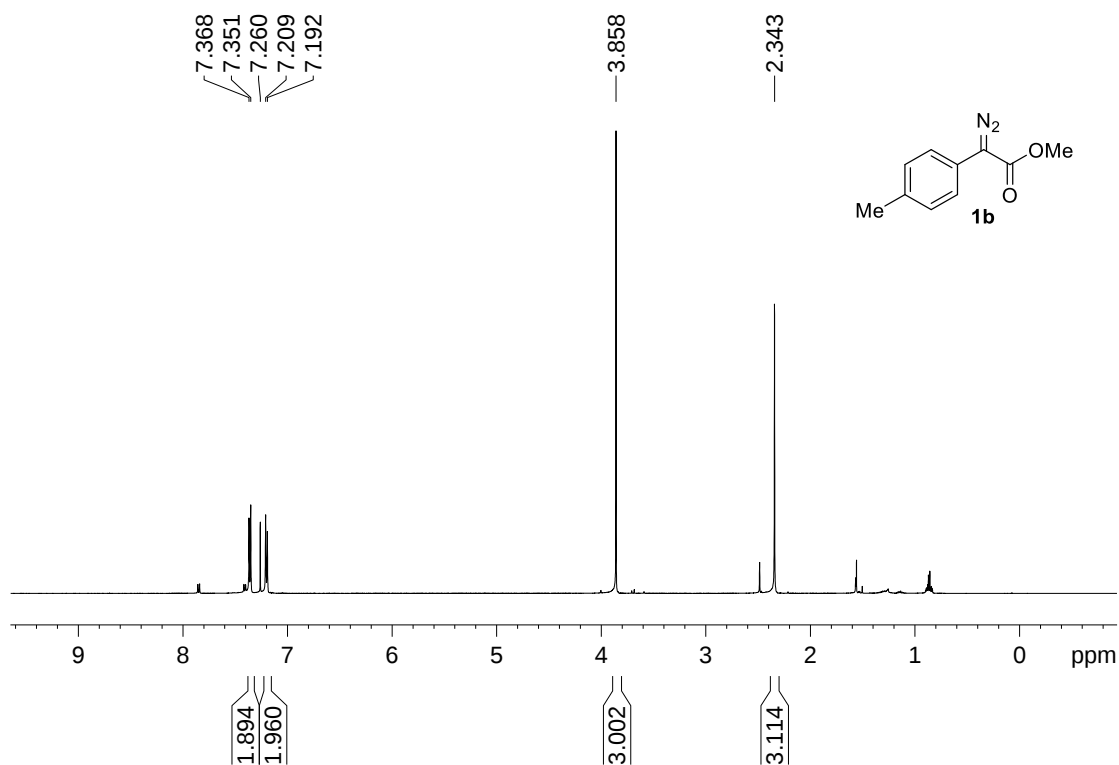
Marios Kidonakis and Manolis Stratakis*

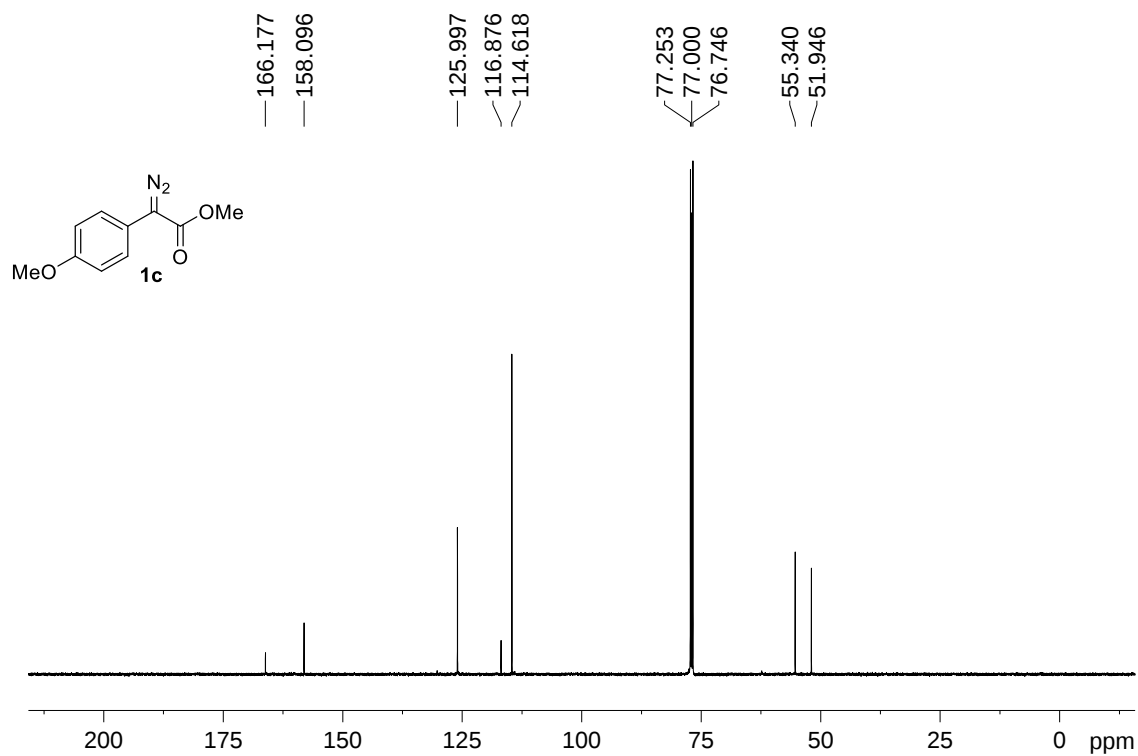
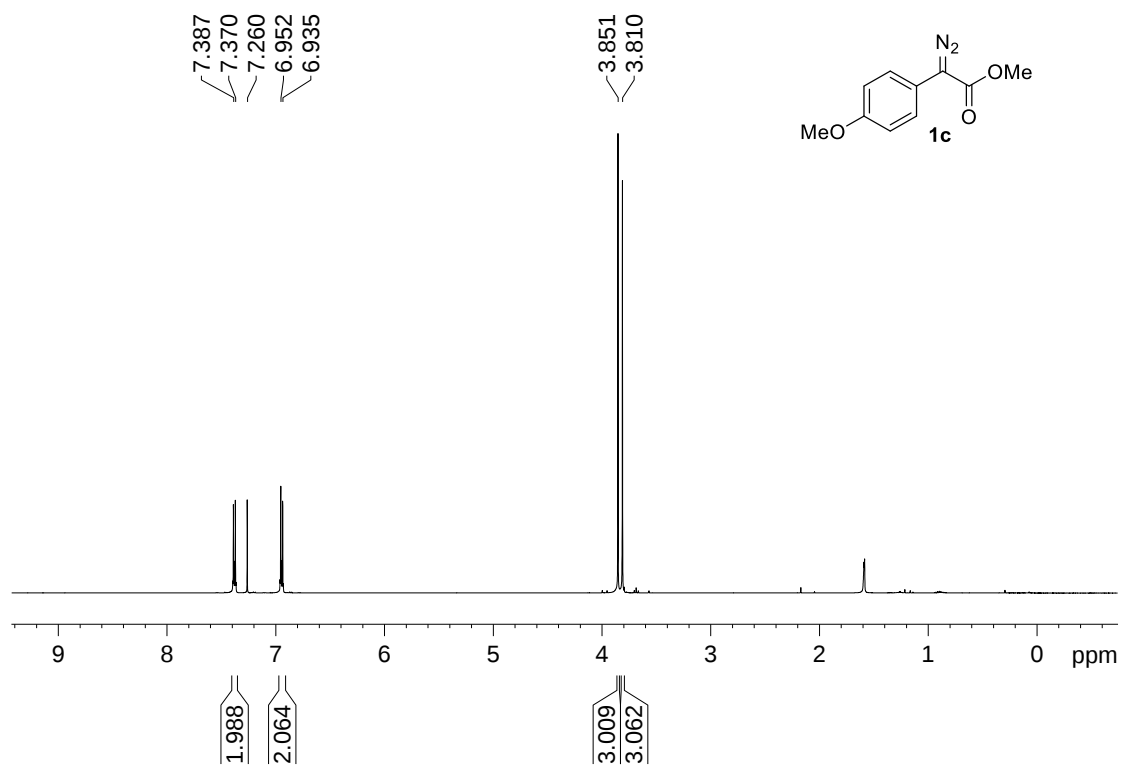
Department of Chemistry, University of Crete, Voutes 71003 Heraklion, Greece

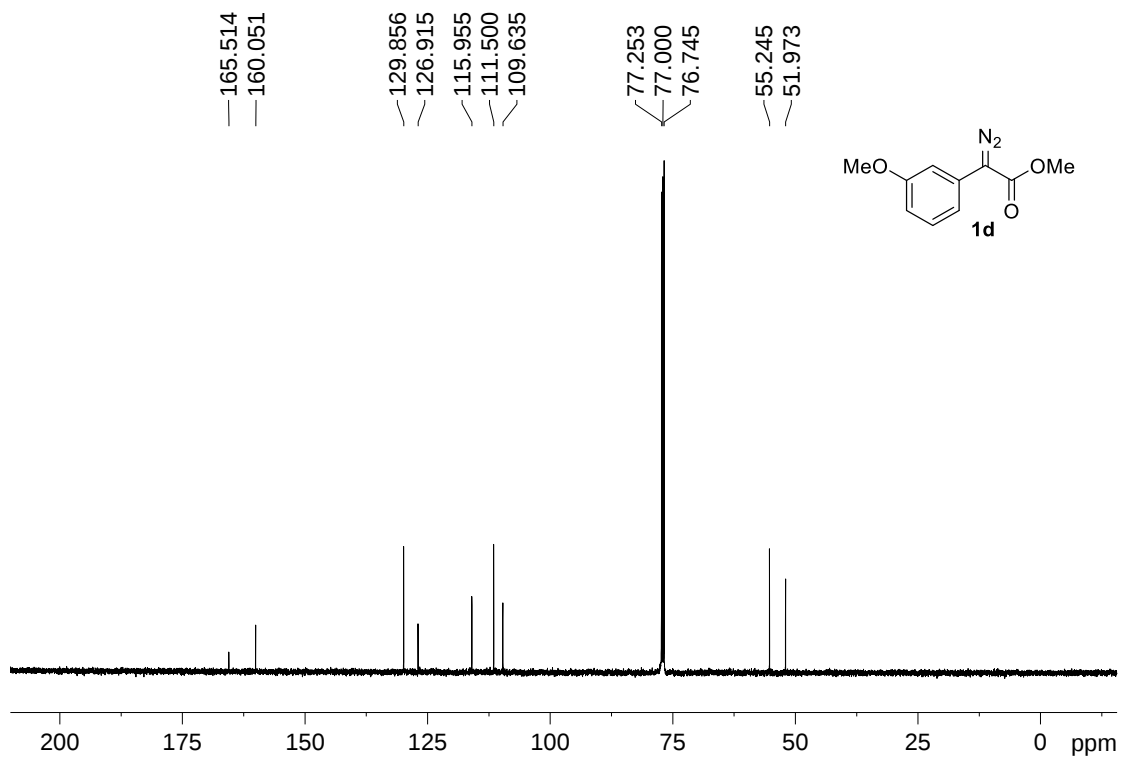
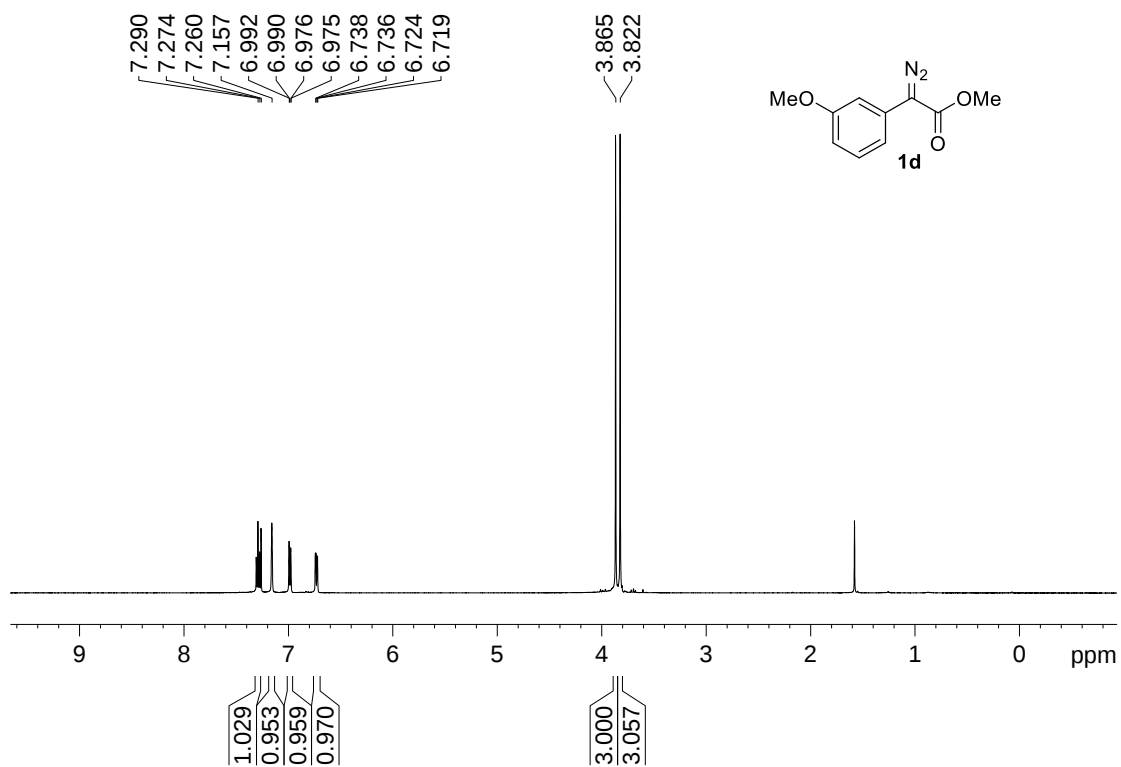
stratakis@uoc.gr

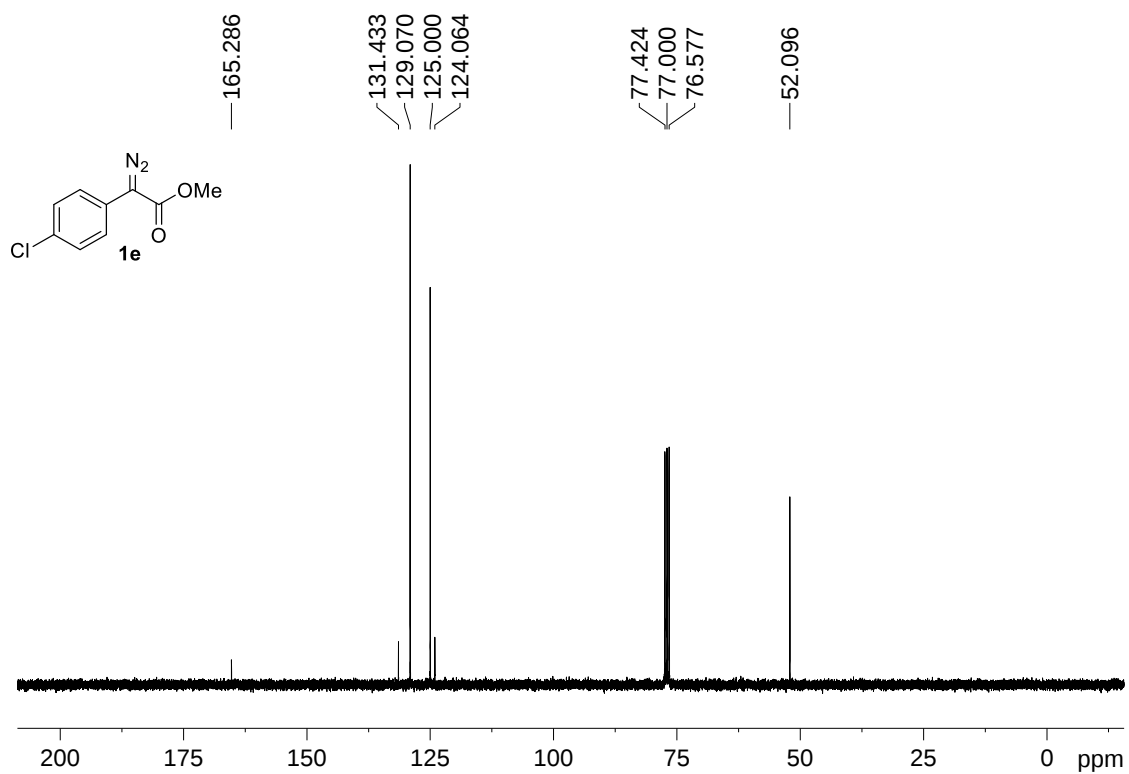
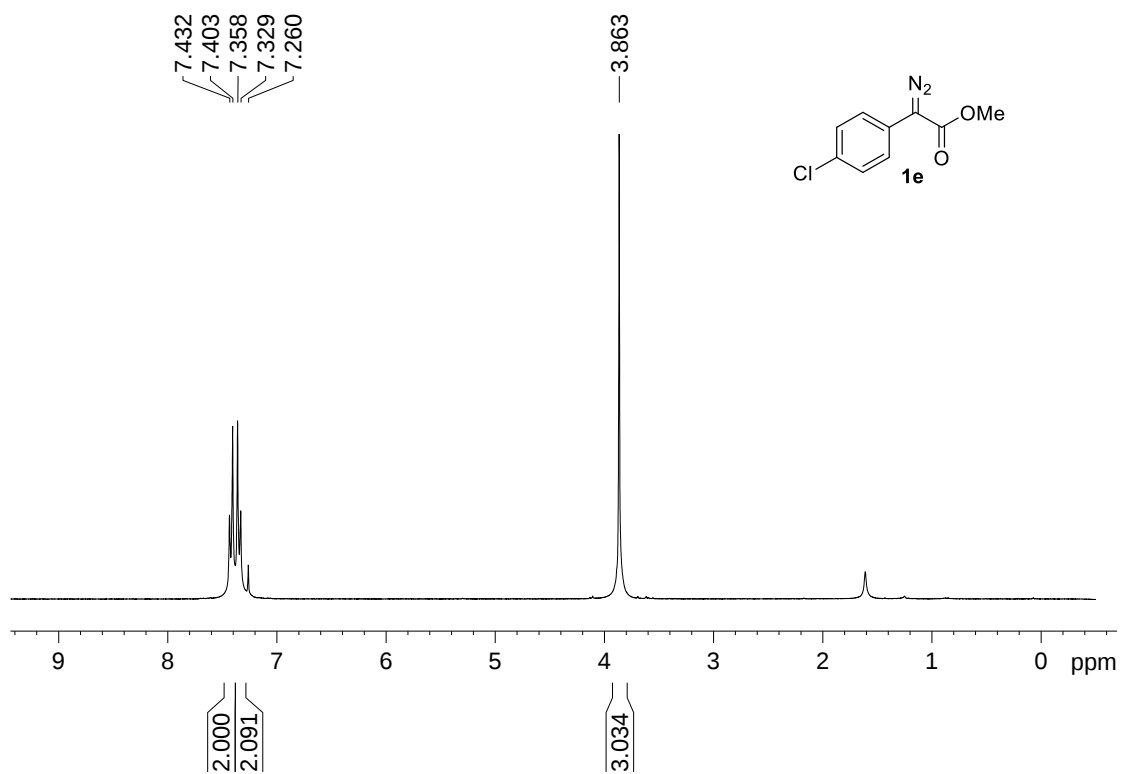
¹H and ¹³C NMR spectra of reactants

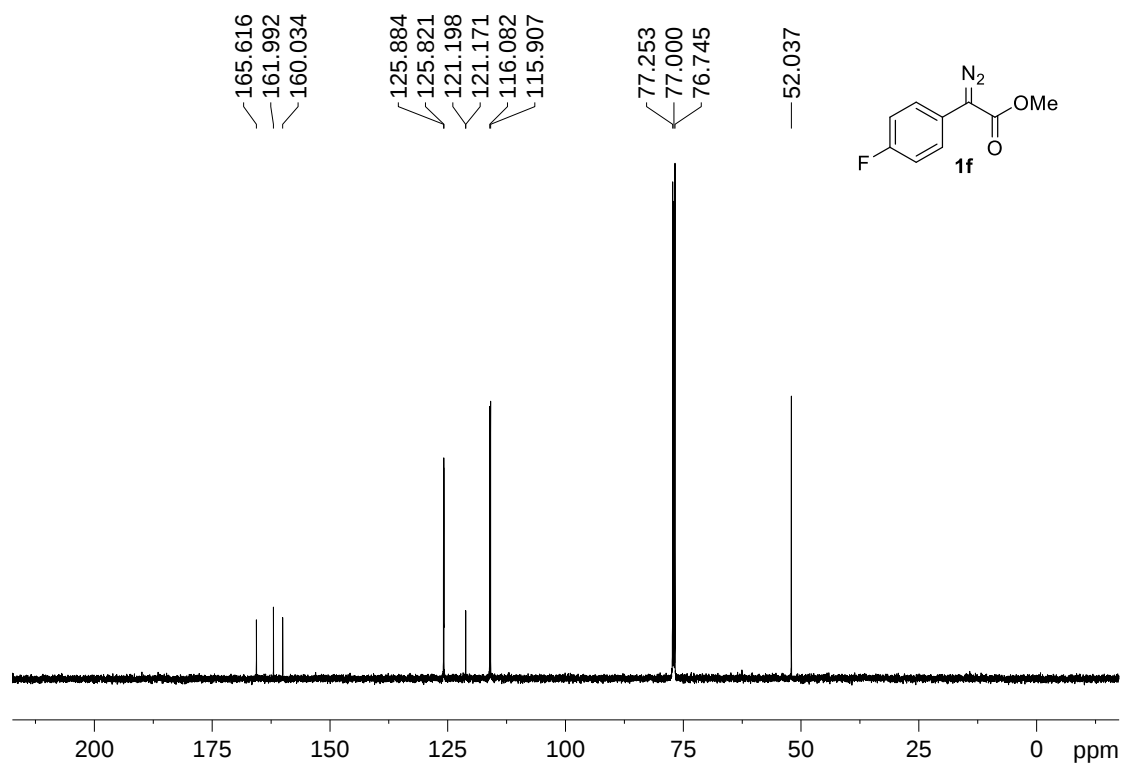
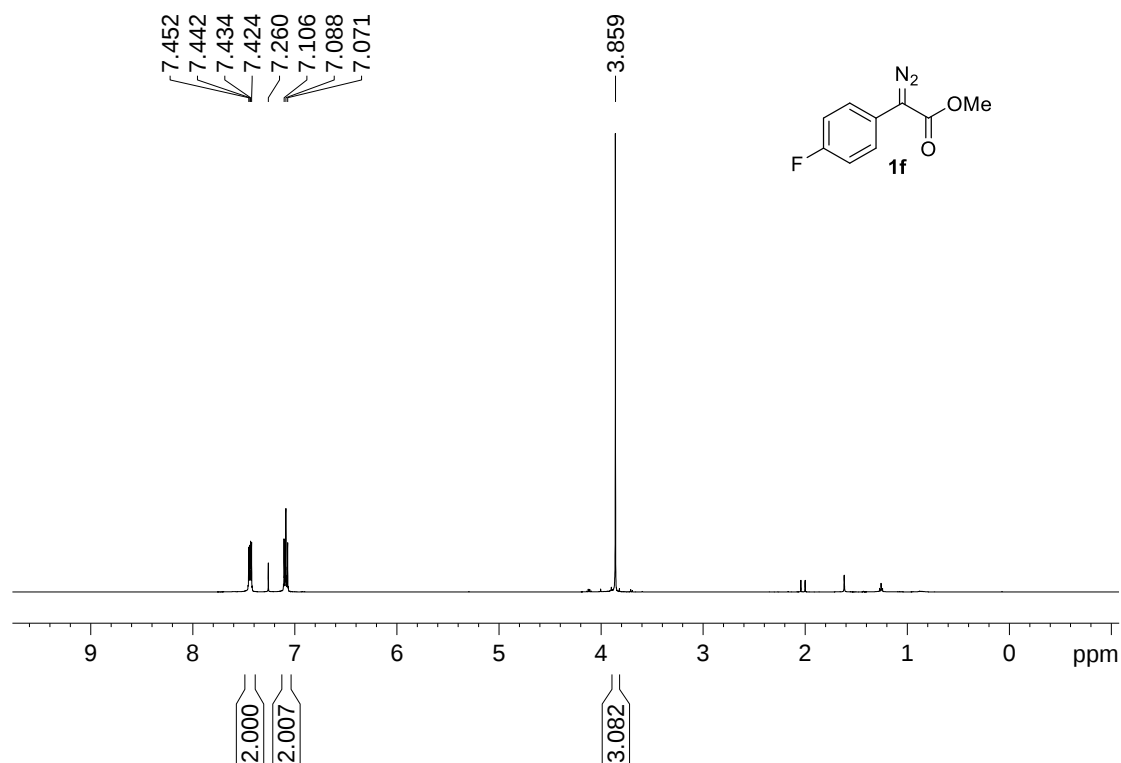


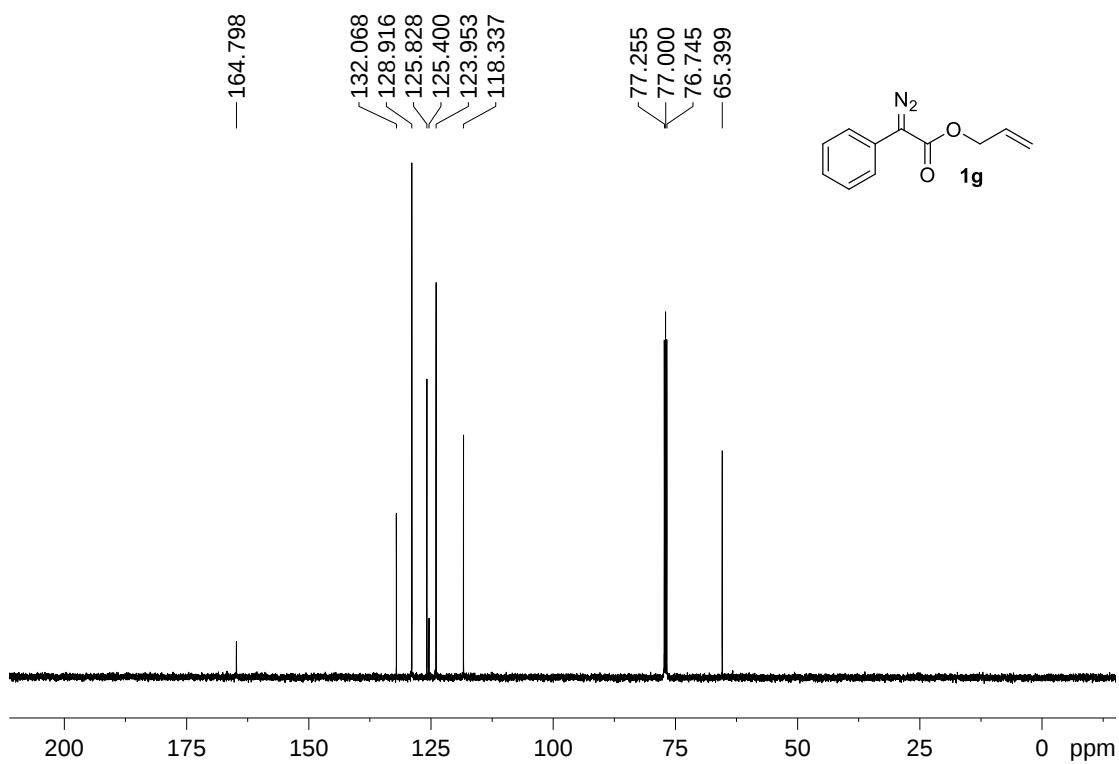
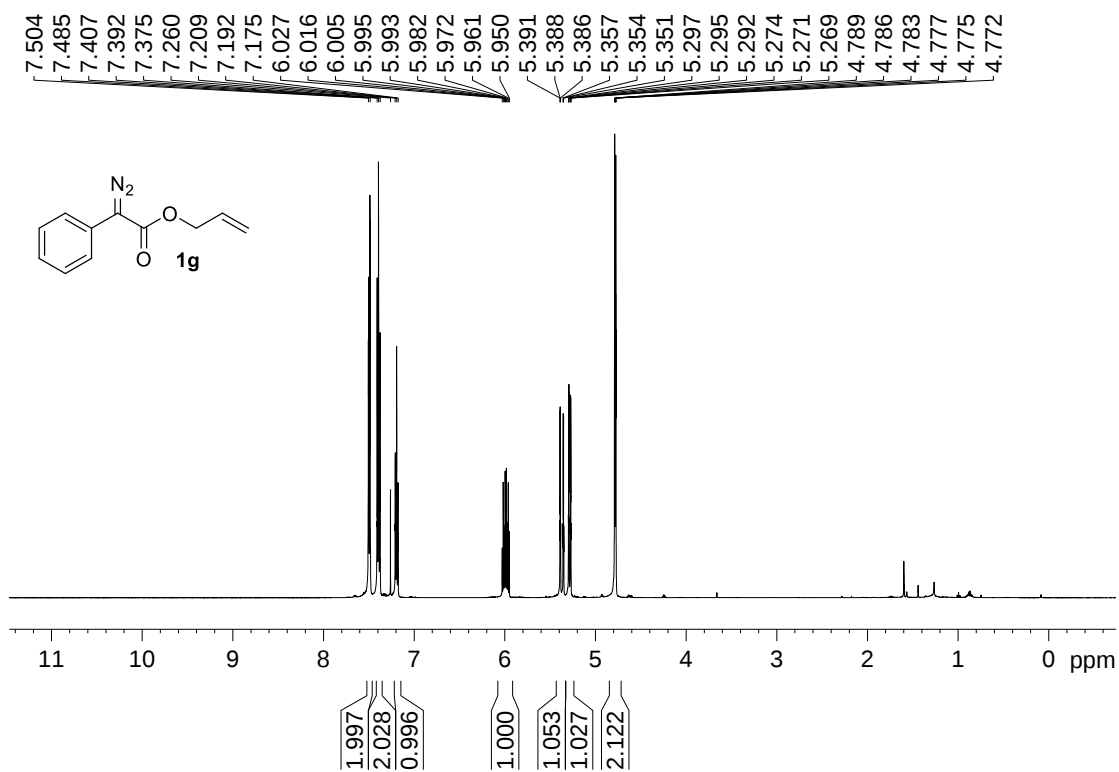


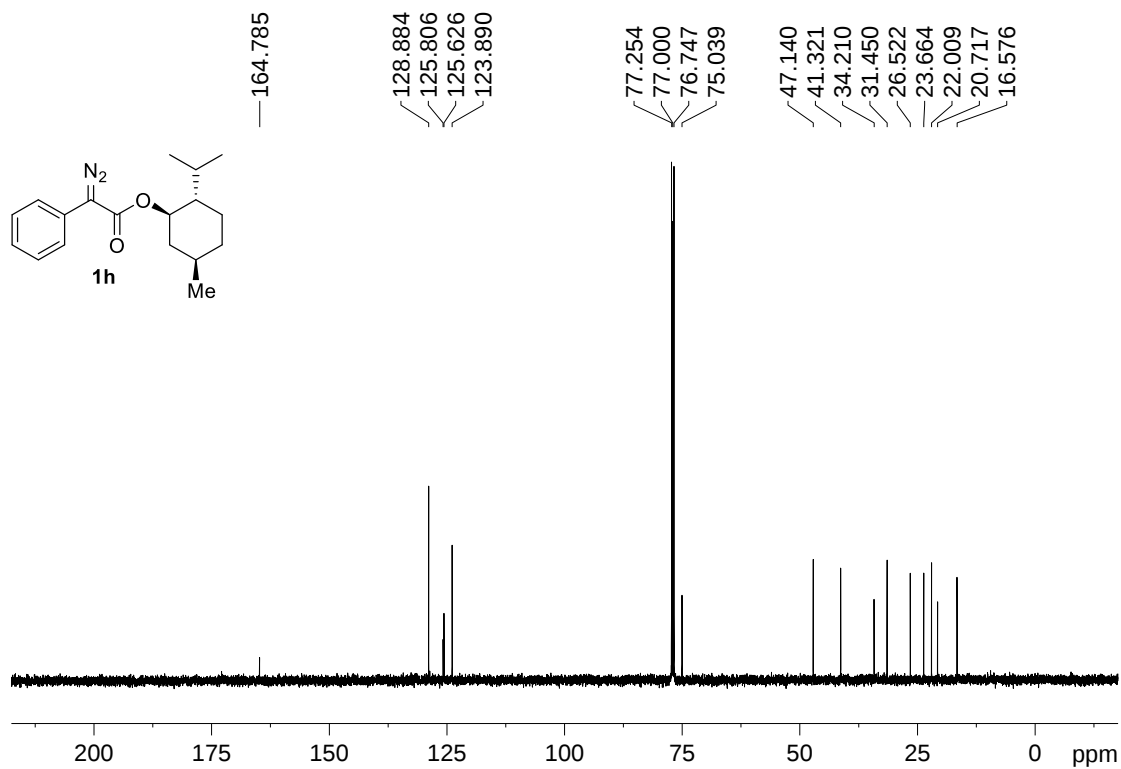
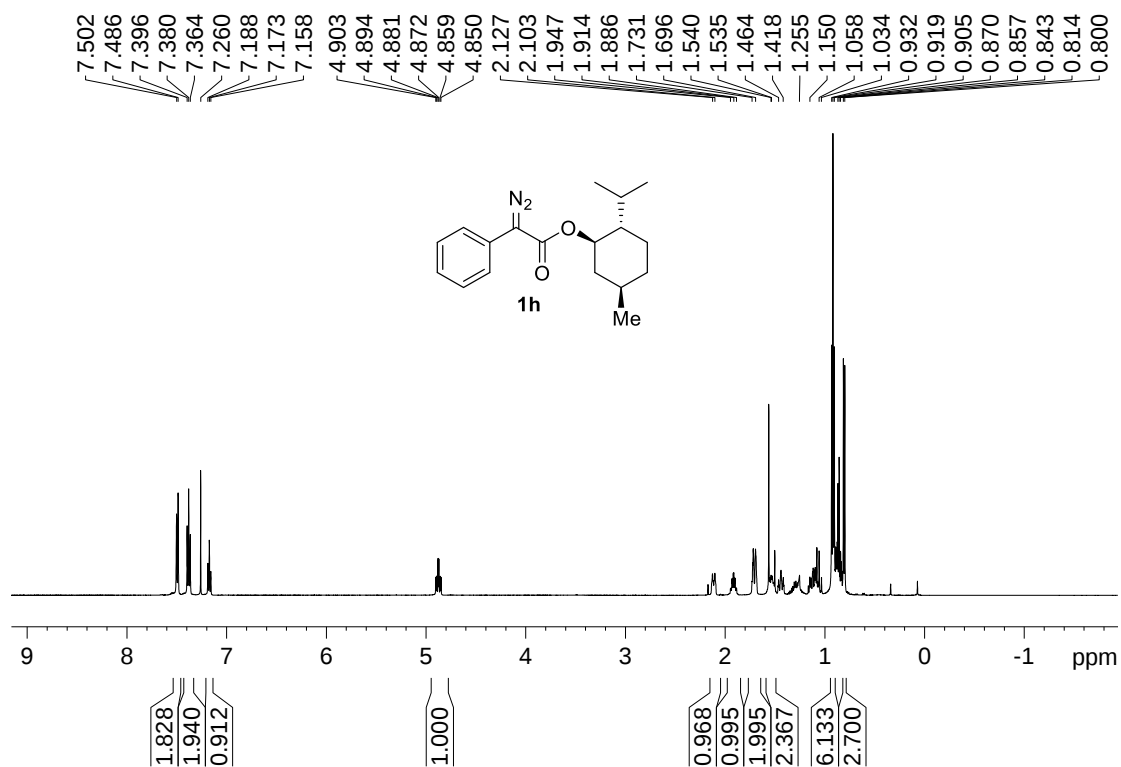


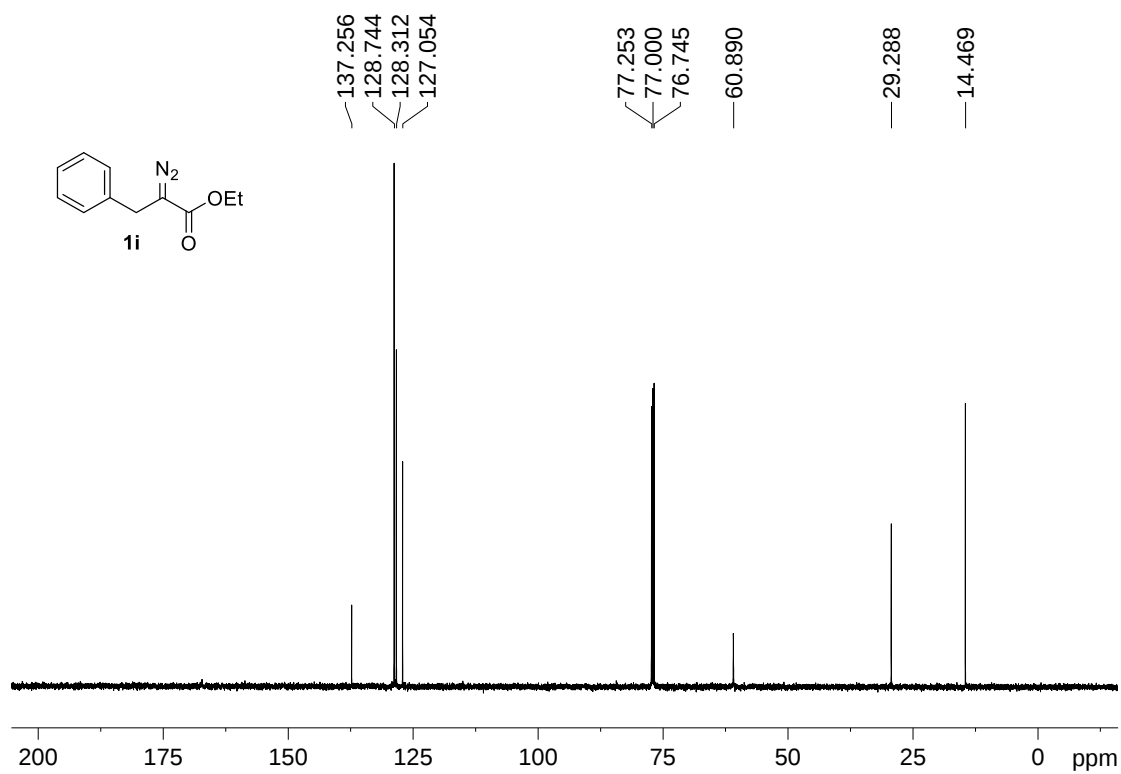
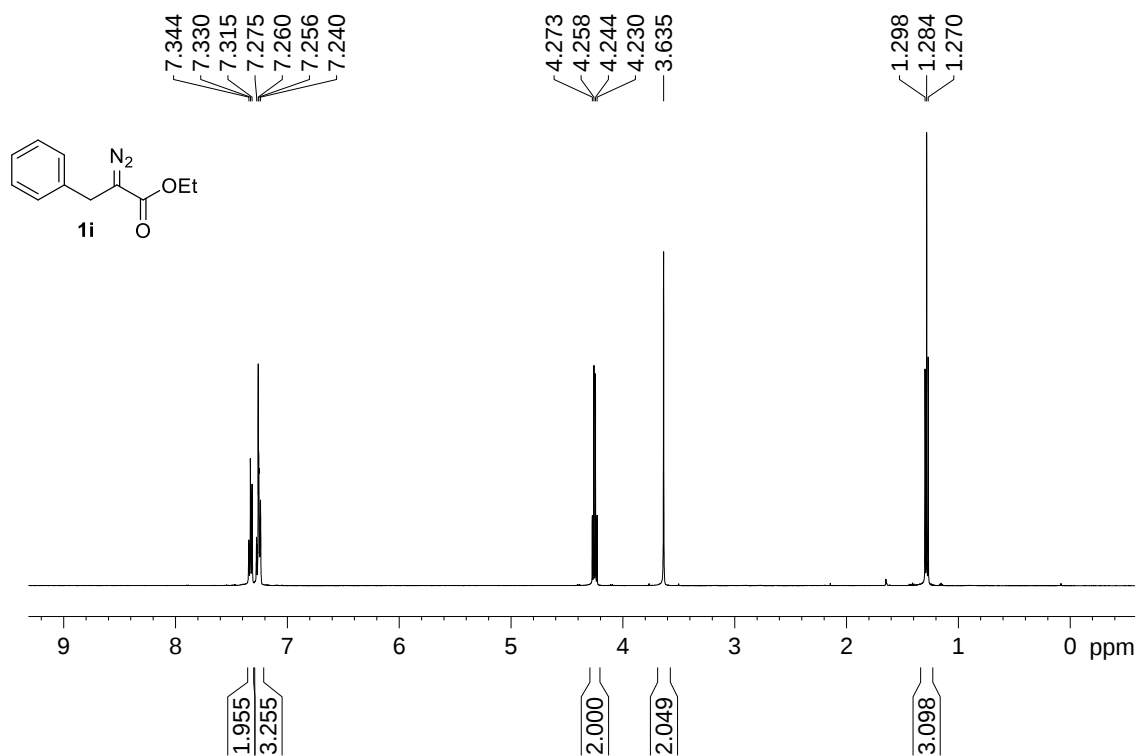


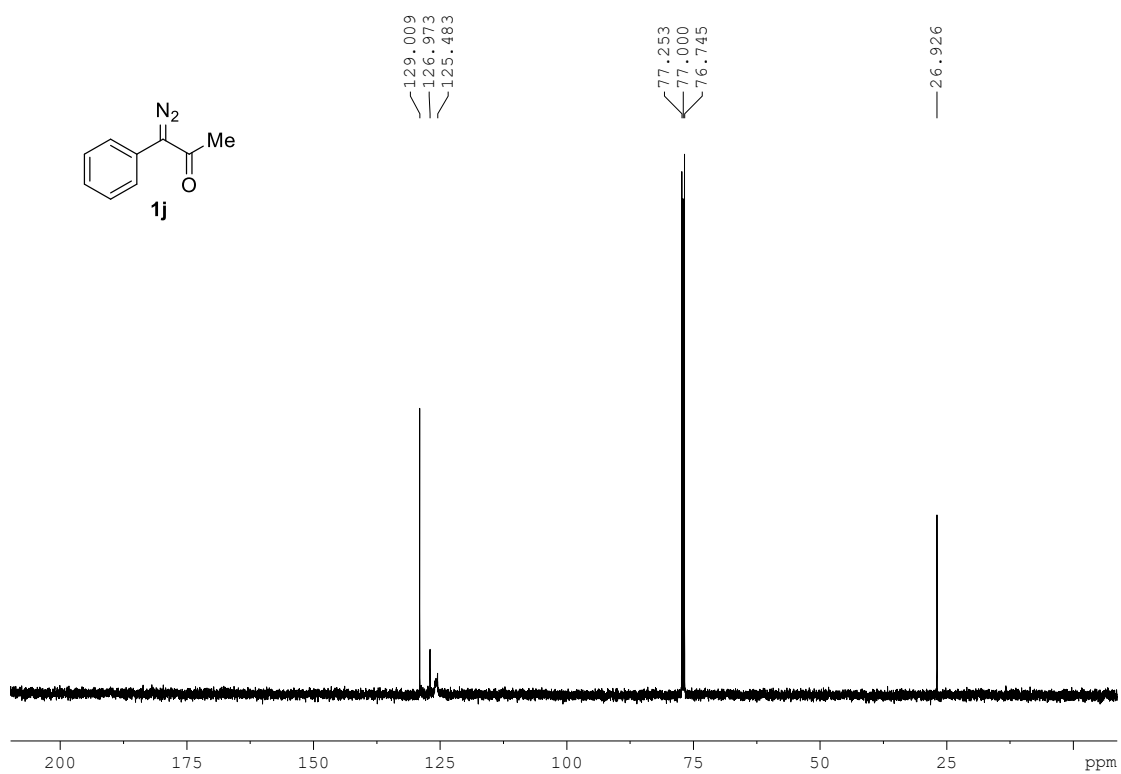
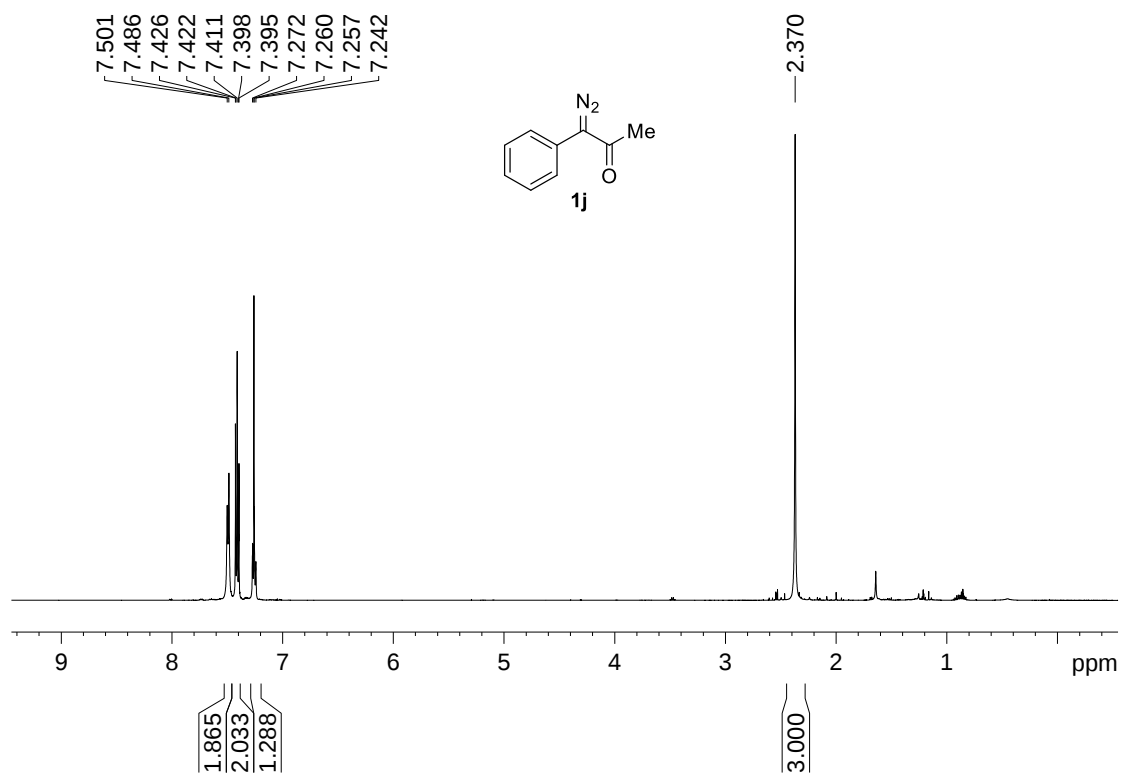


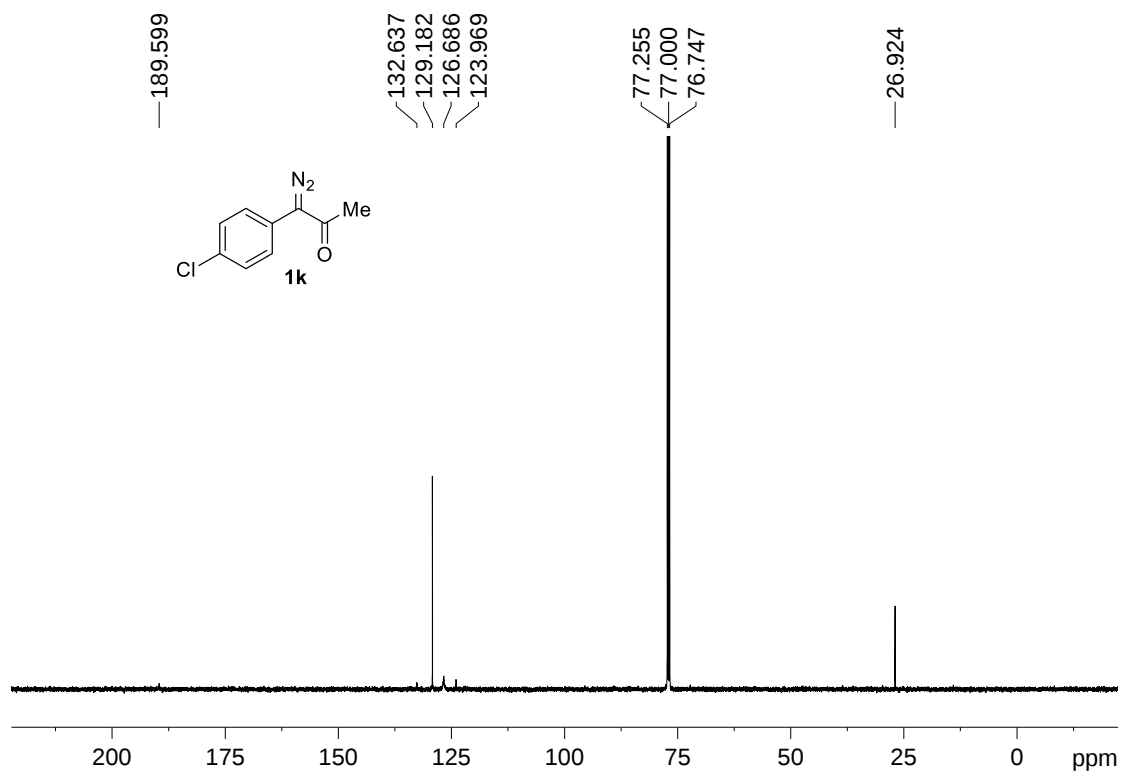
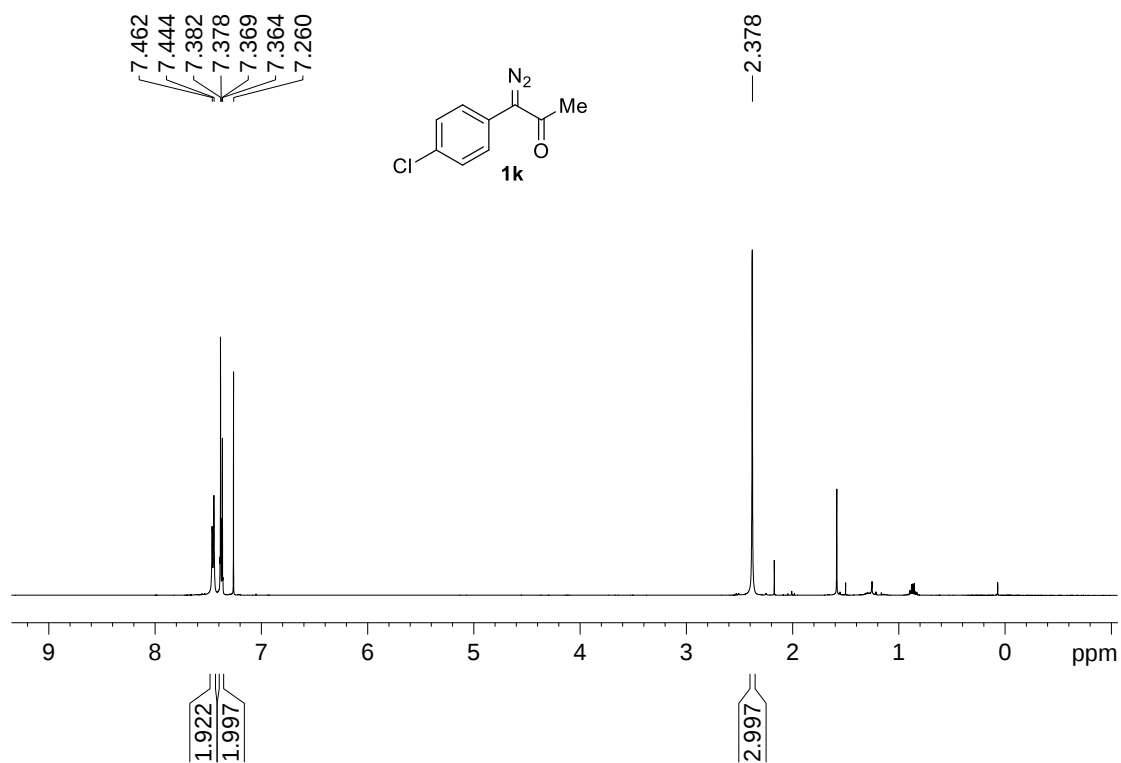


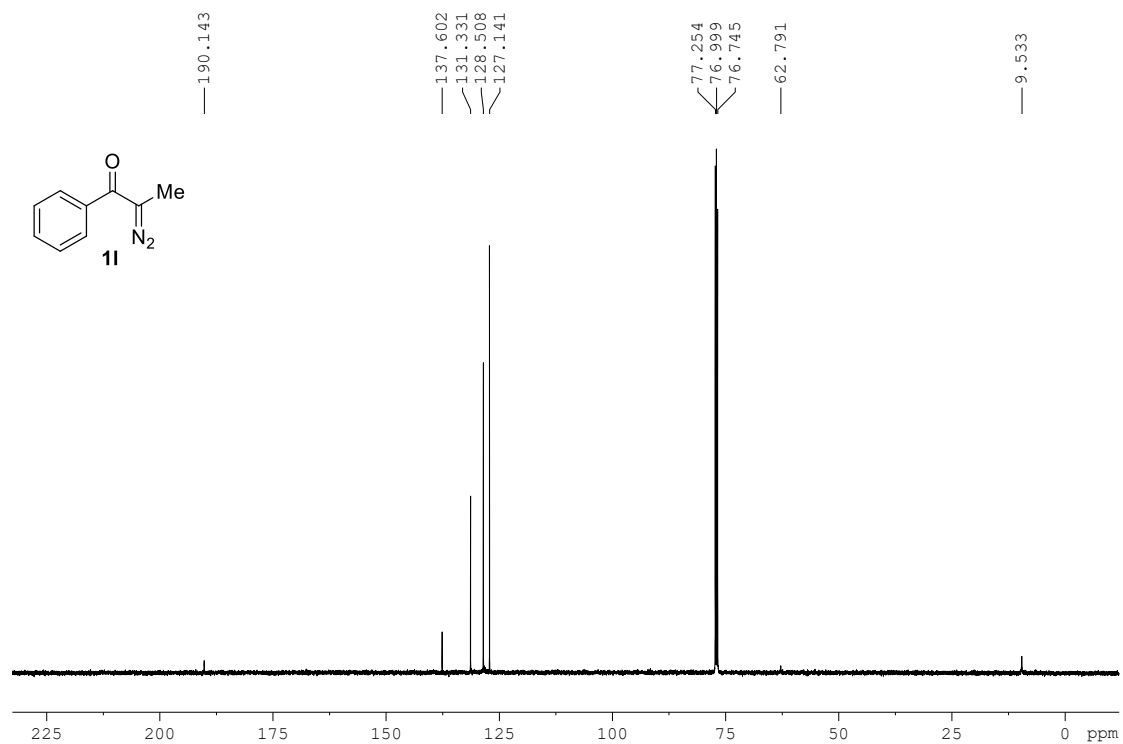
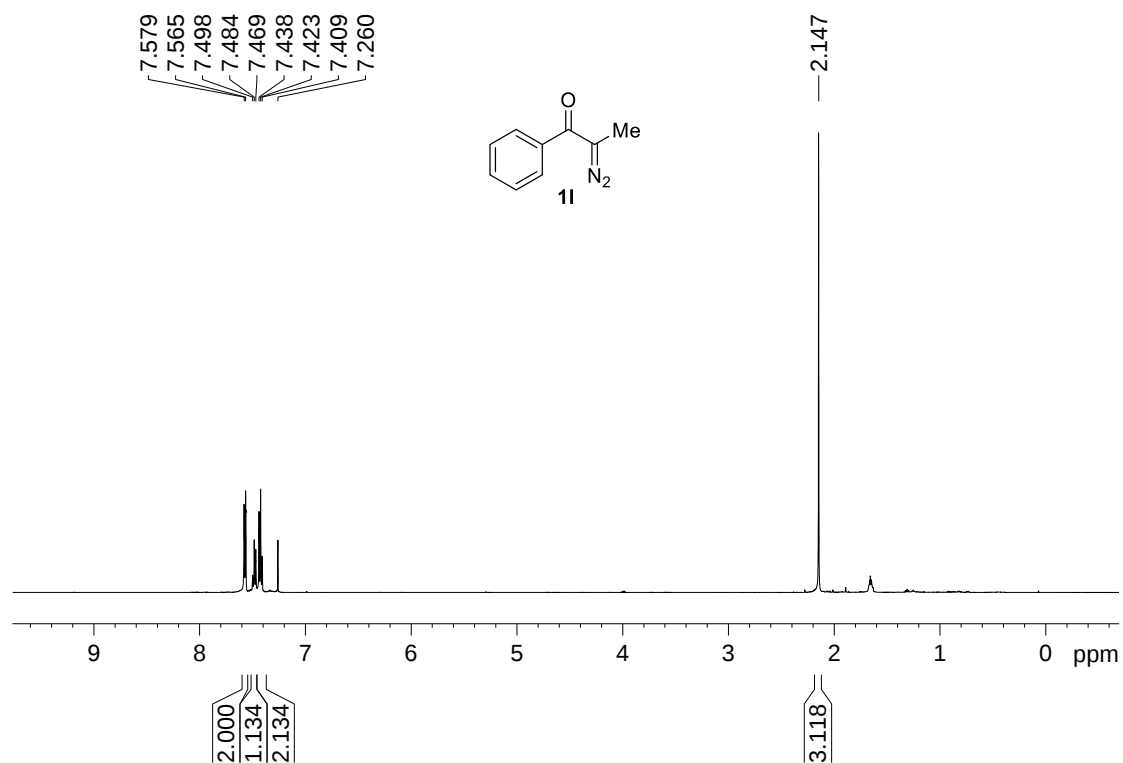




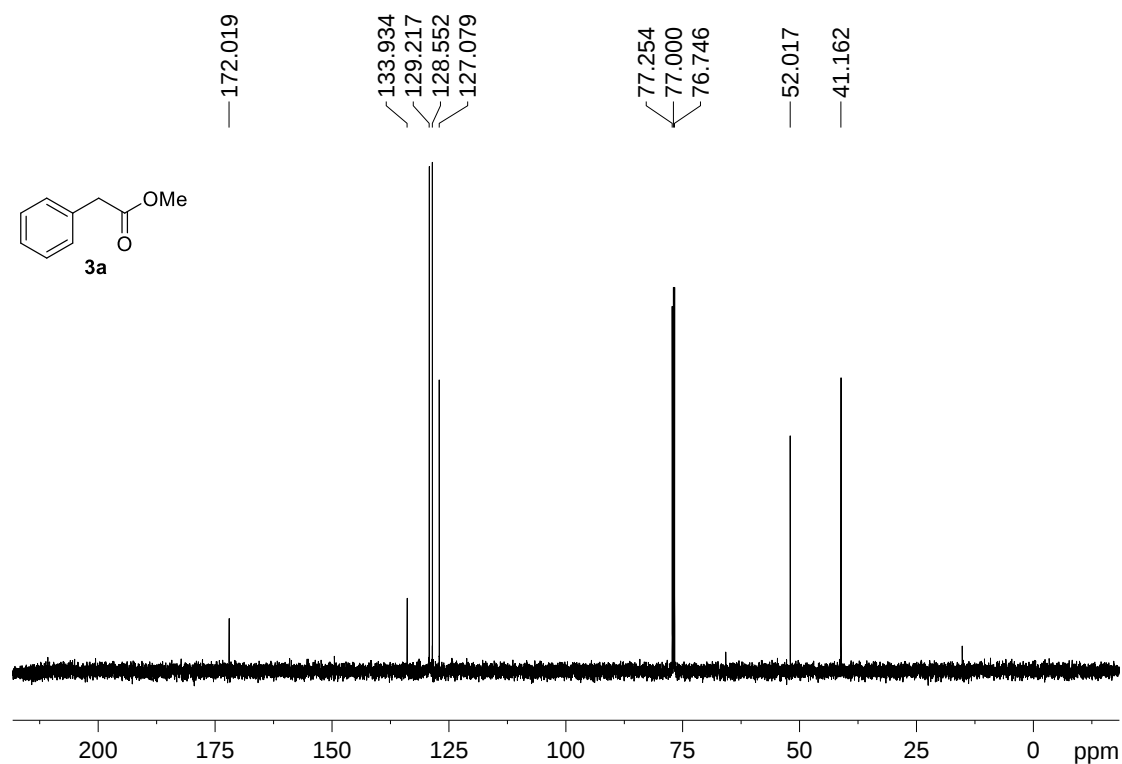
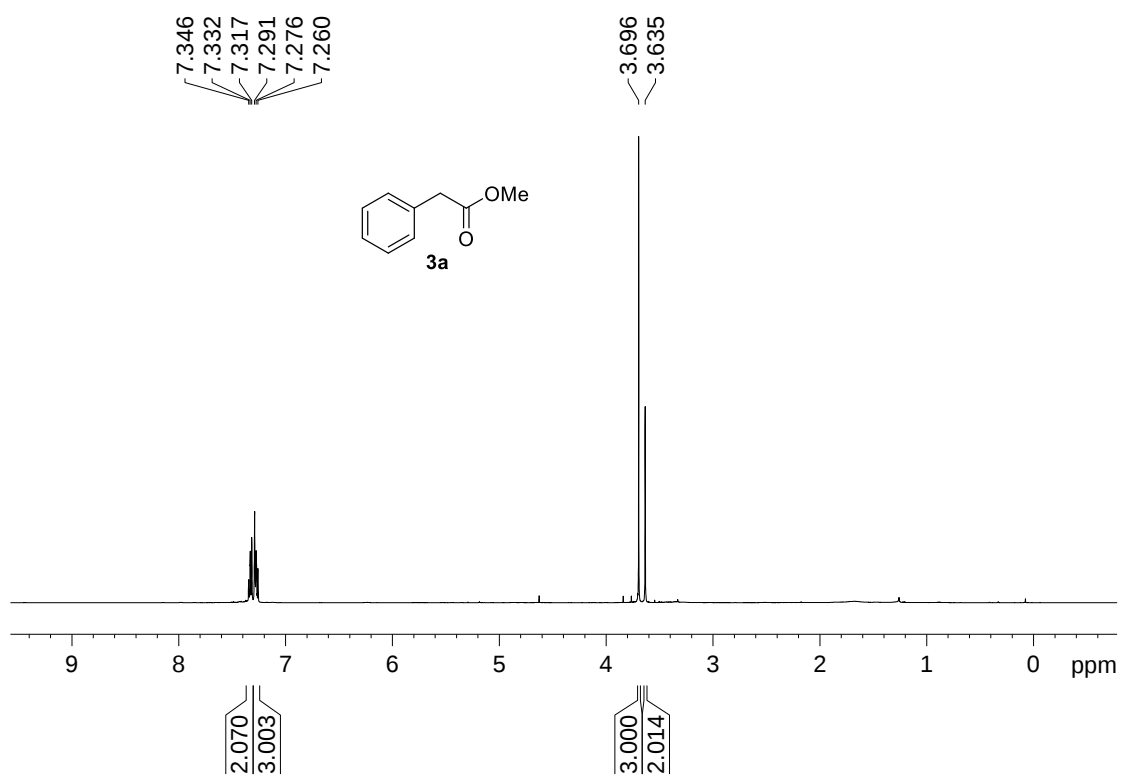




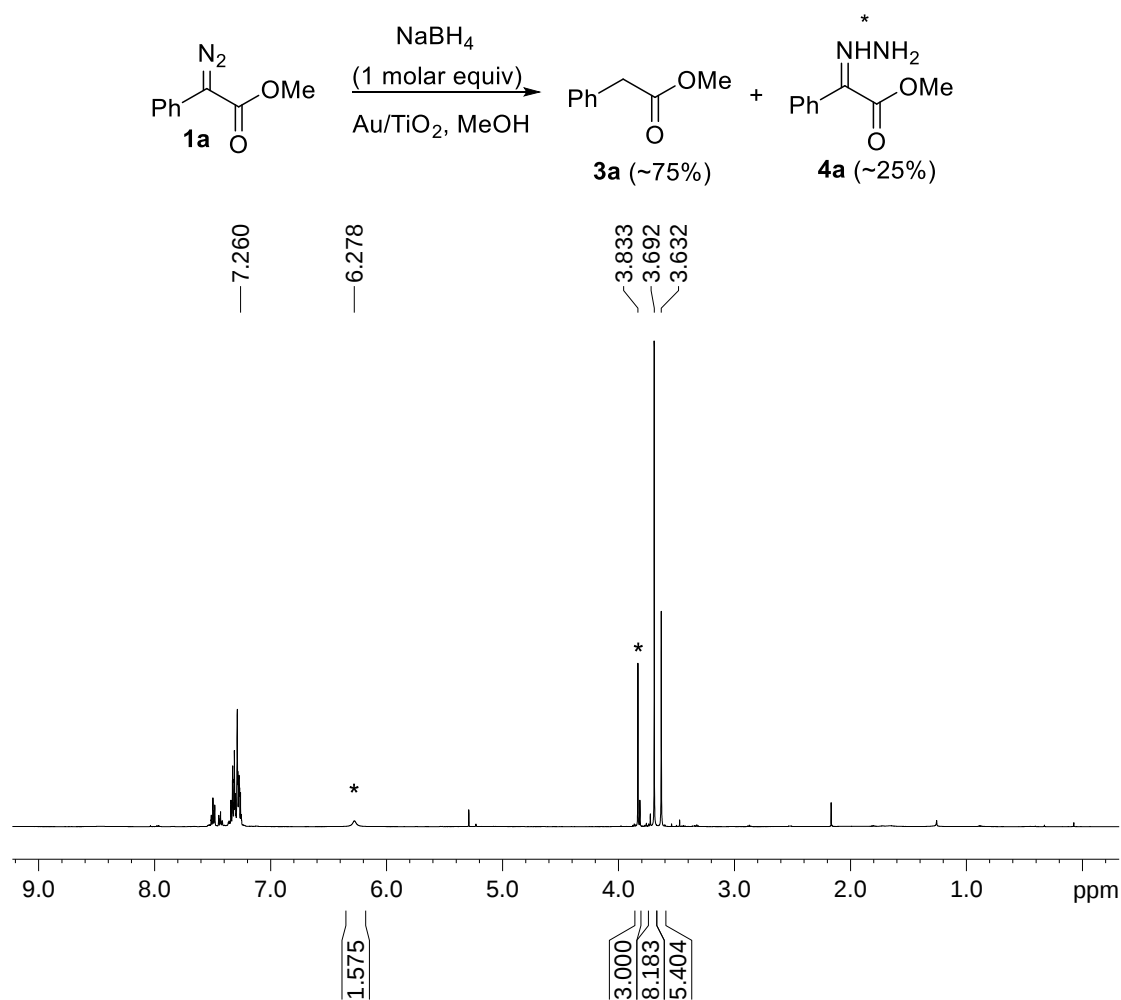




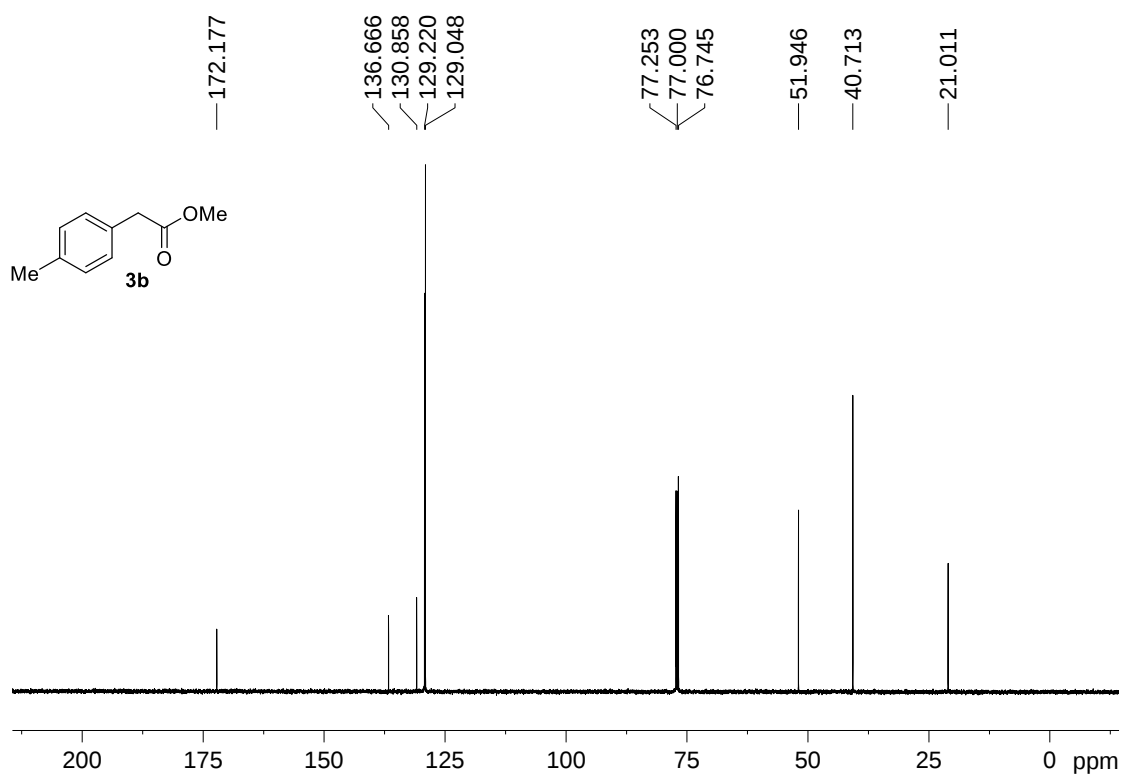
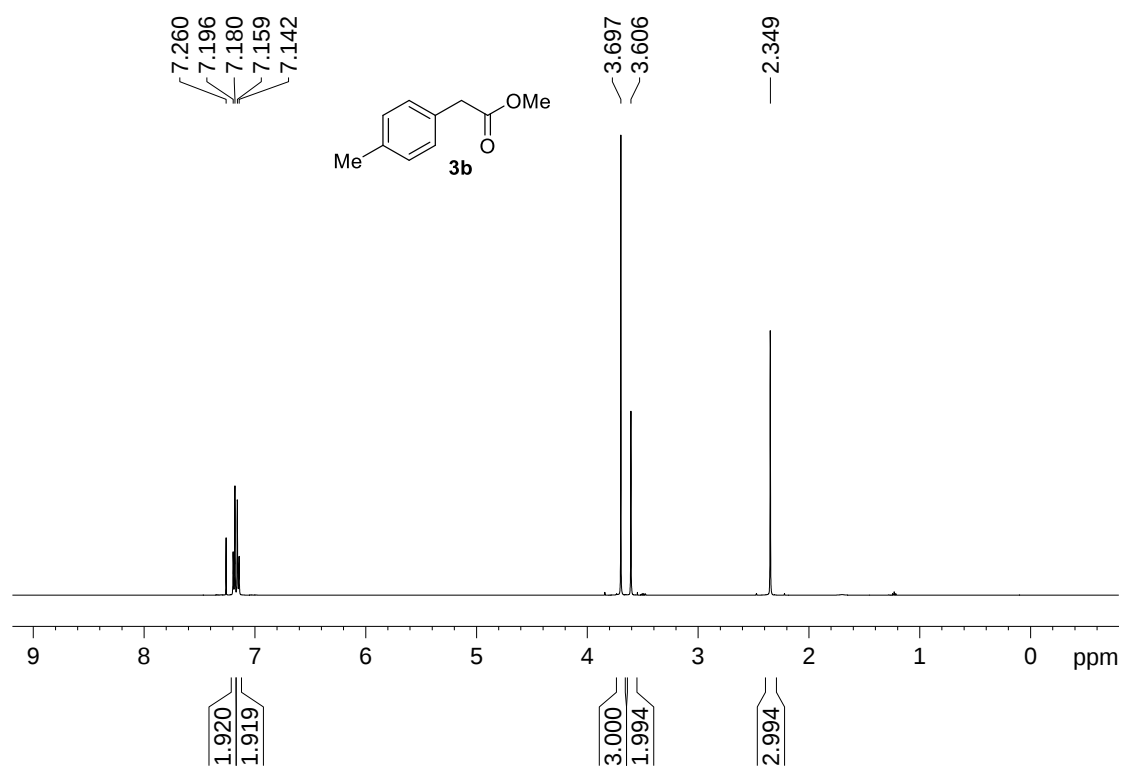
¹H and ¹³C NMR spectra of products

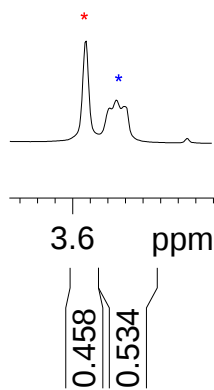
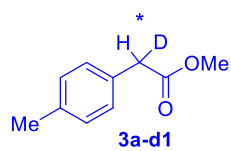
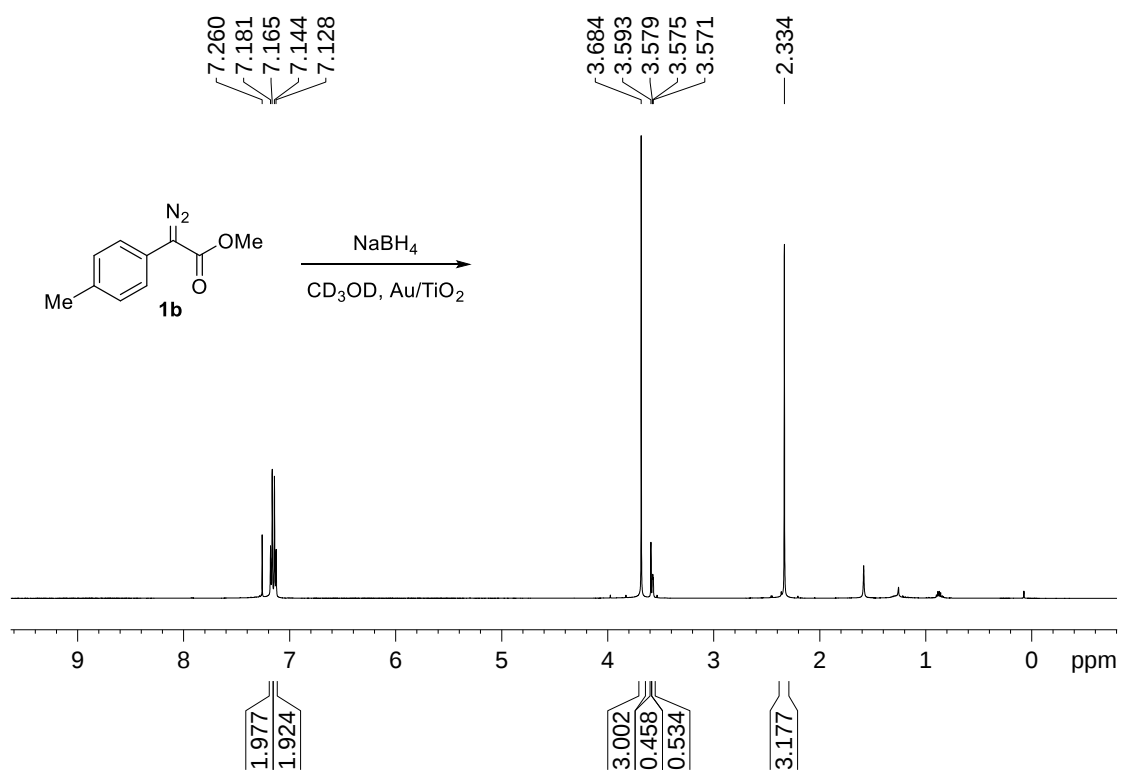


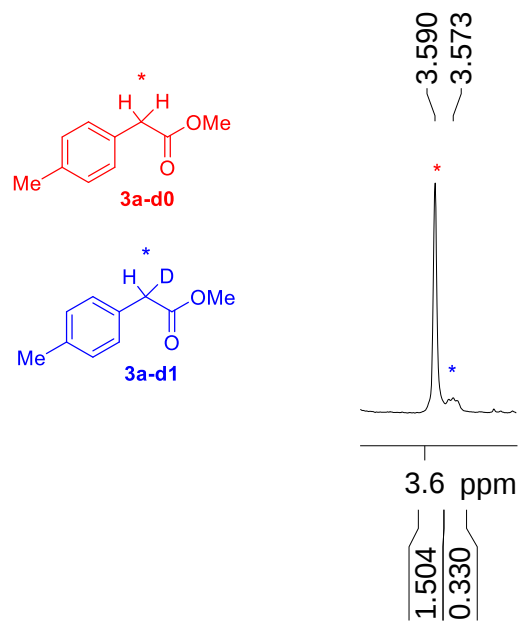
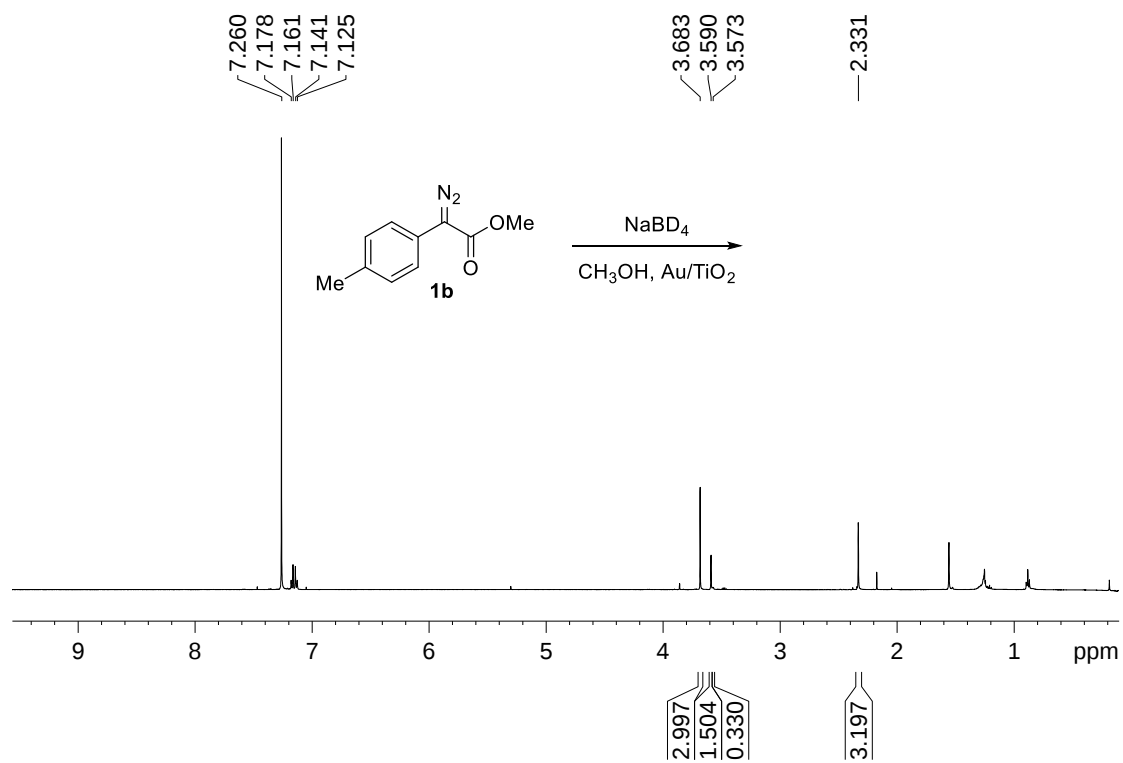
Reaction of α -diazocarbonyl compound **1a with 1 molar equiv of NaBH_4**

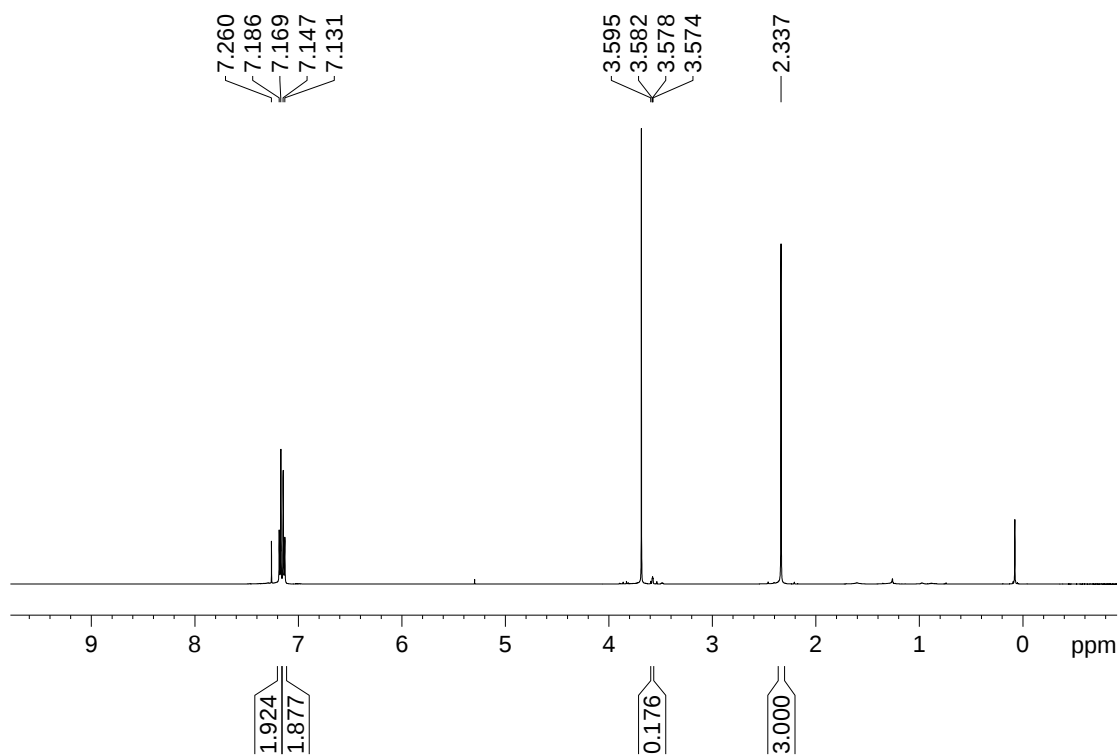
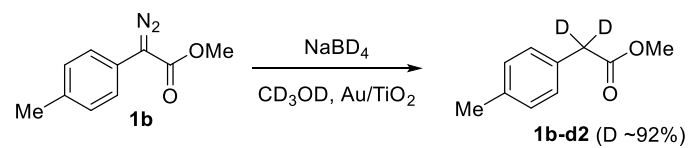


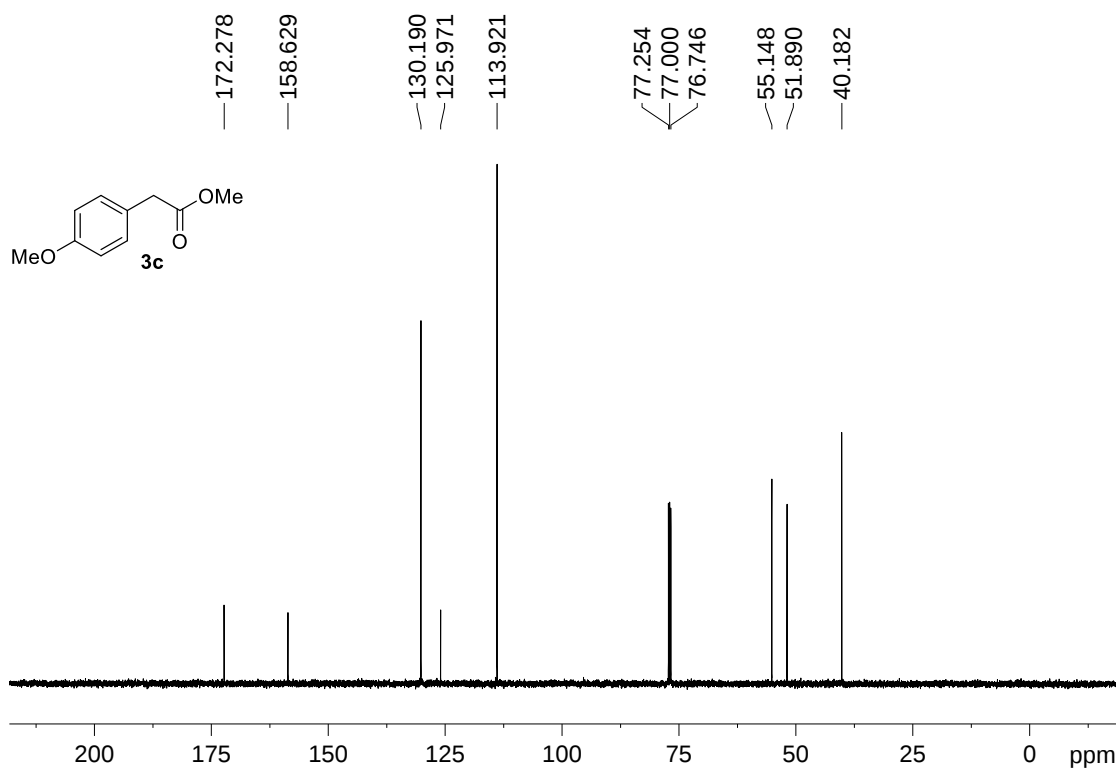
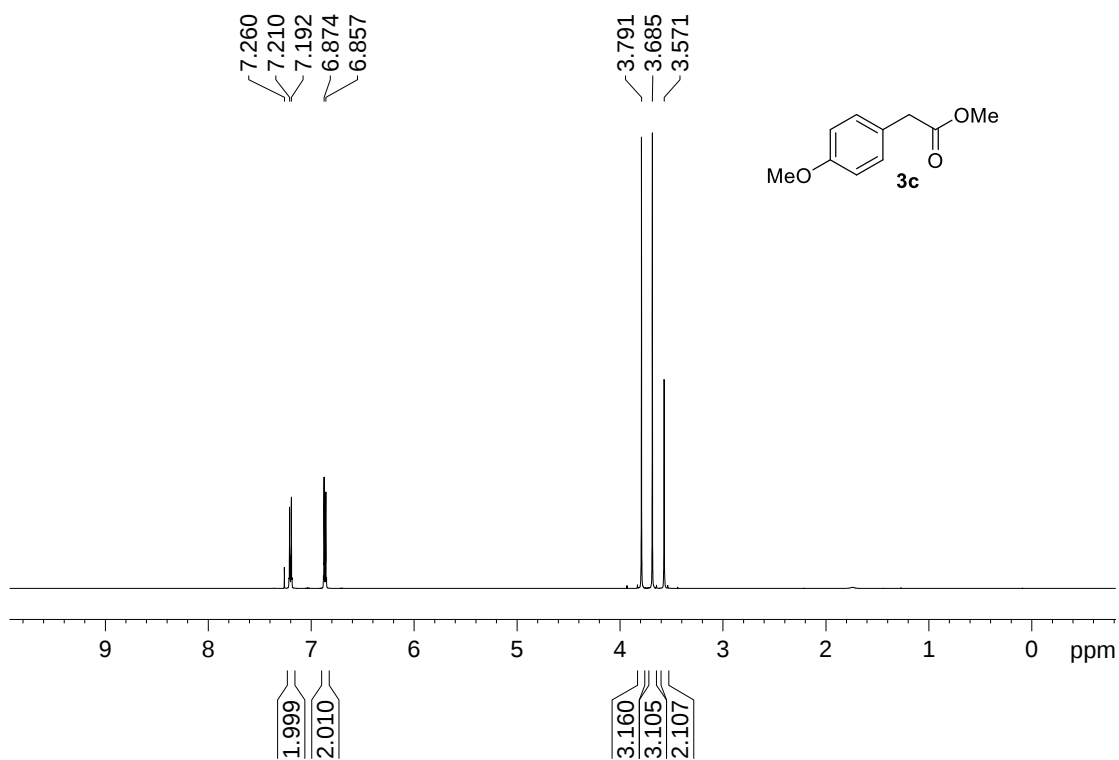
*Signals correspond to hydrazone **4a**

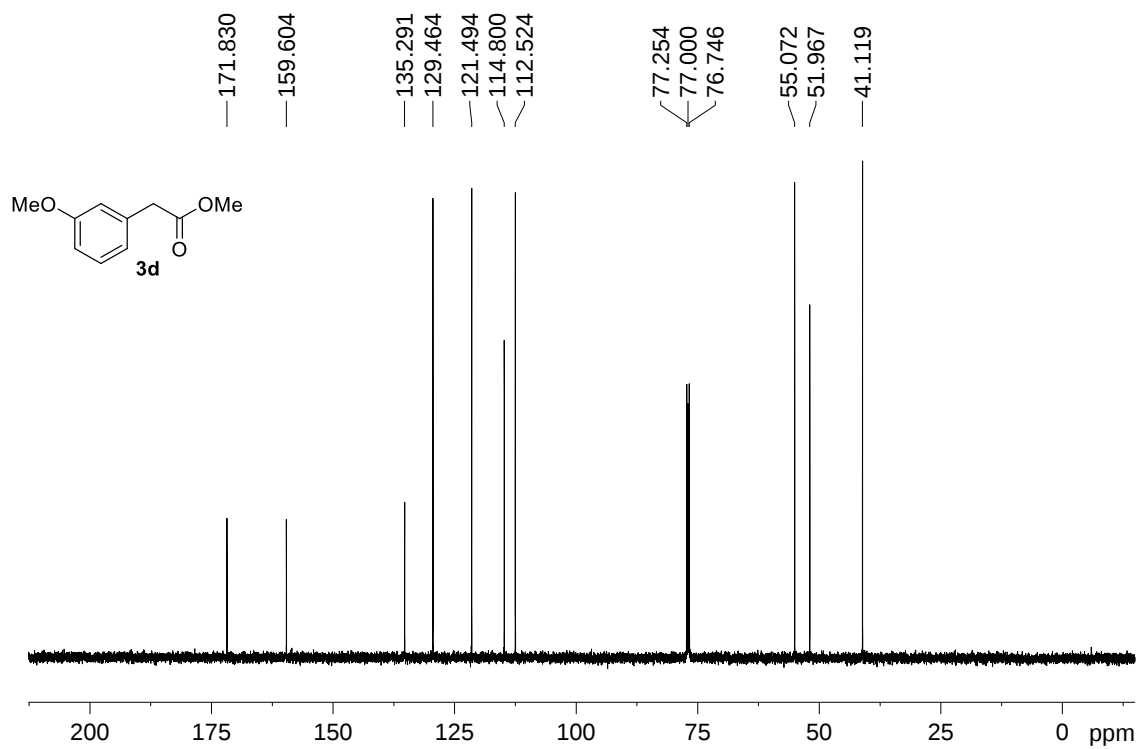
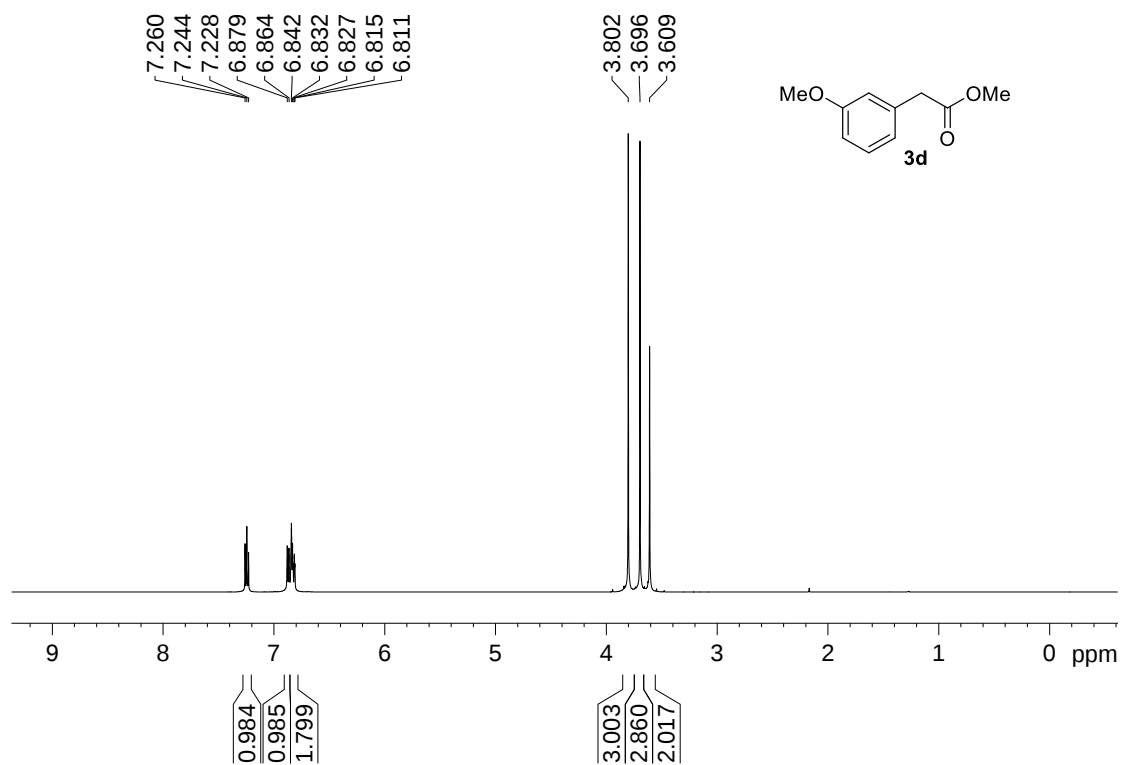


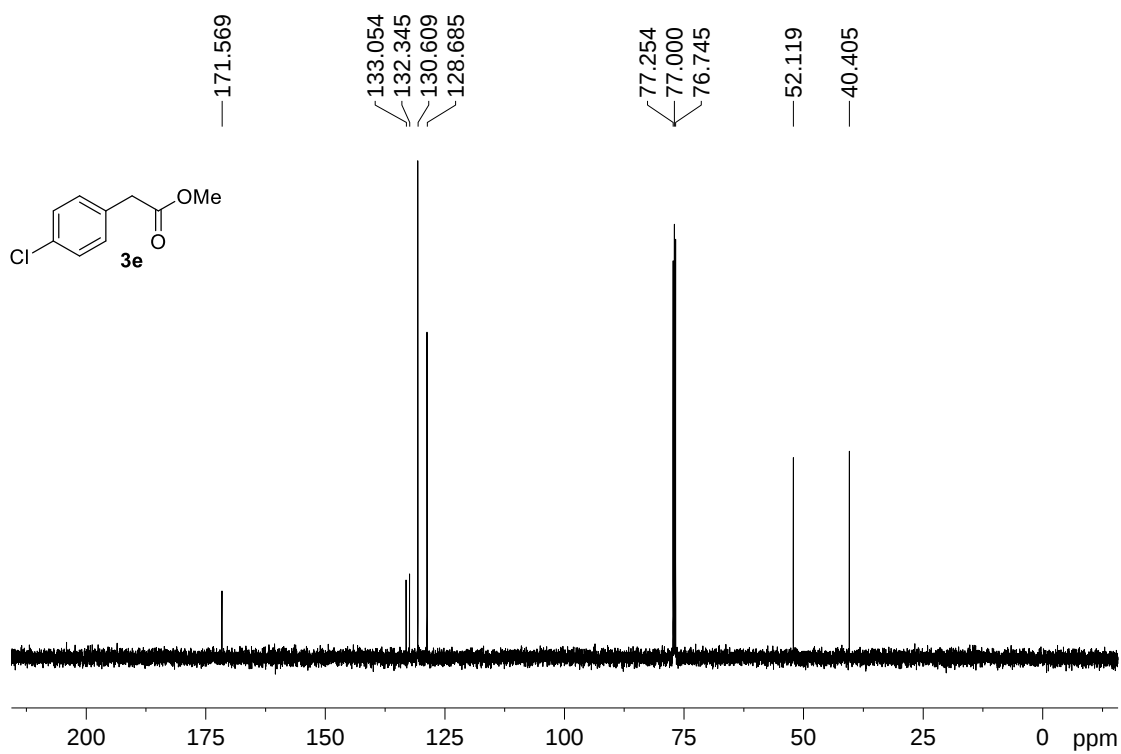
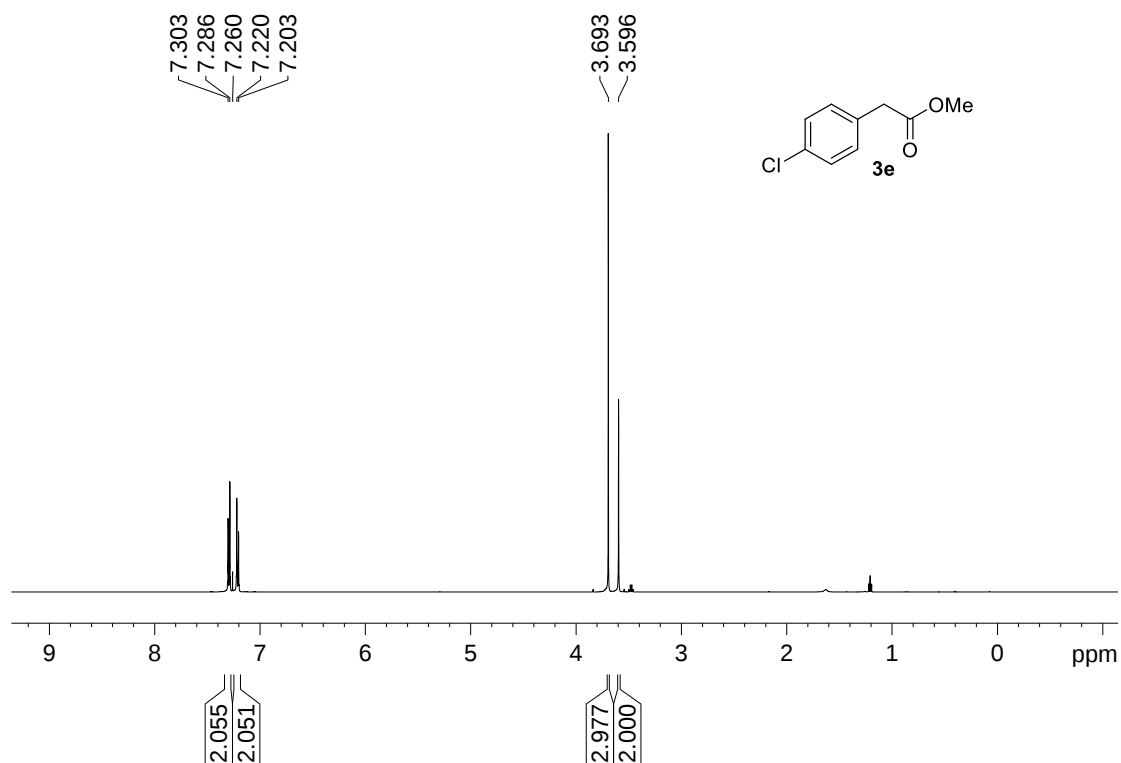


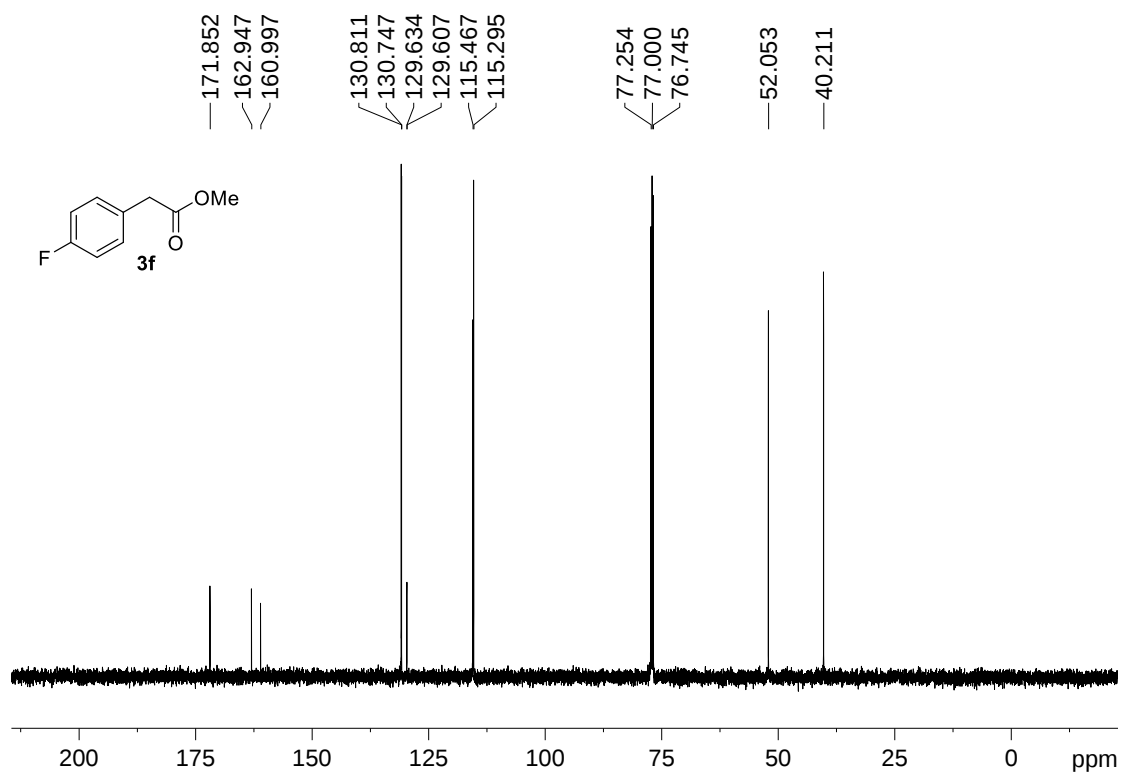
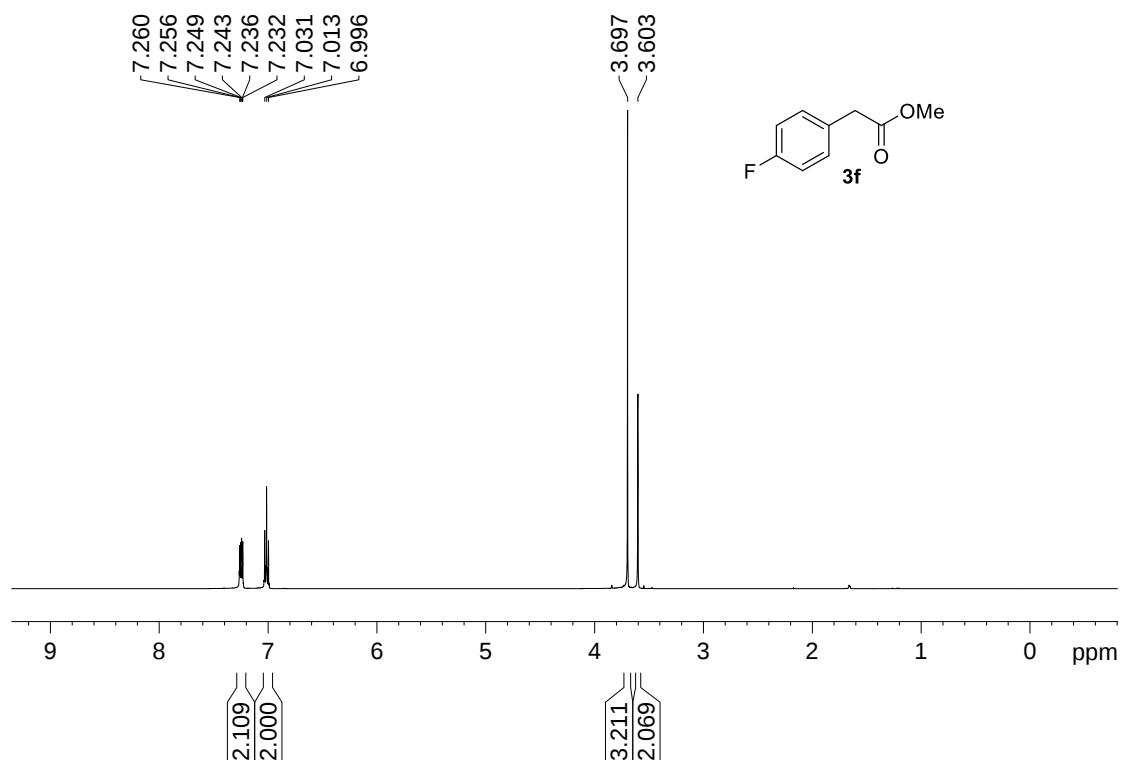


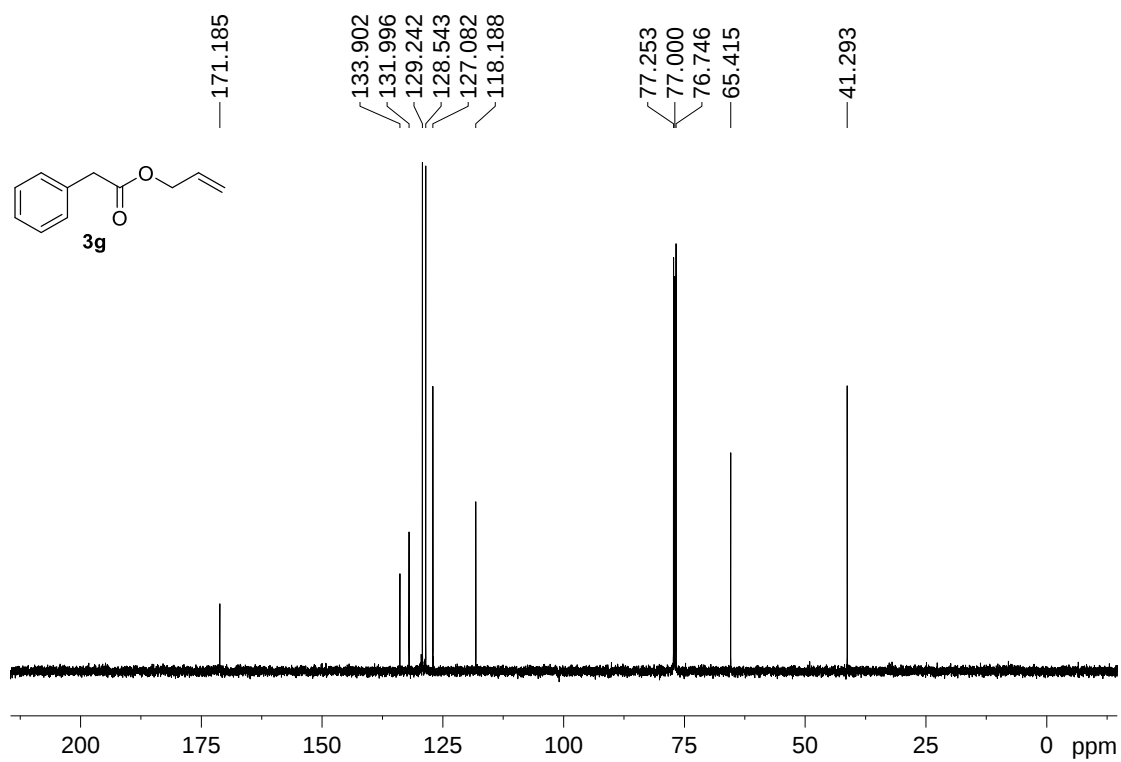
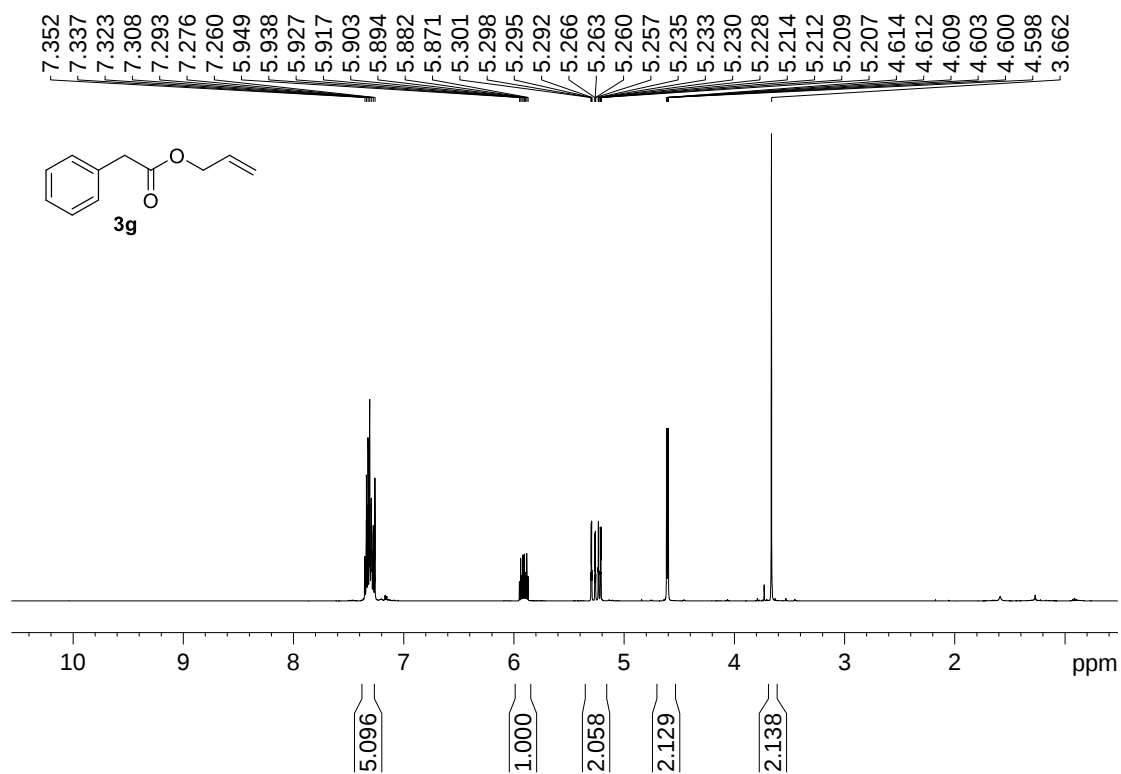


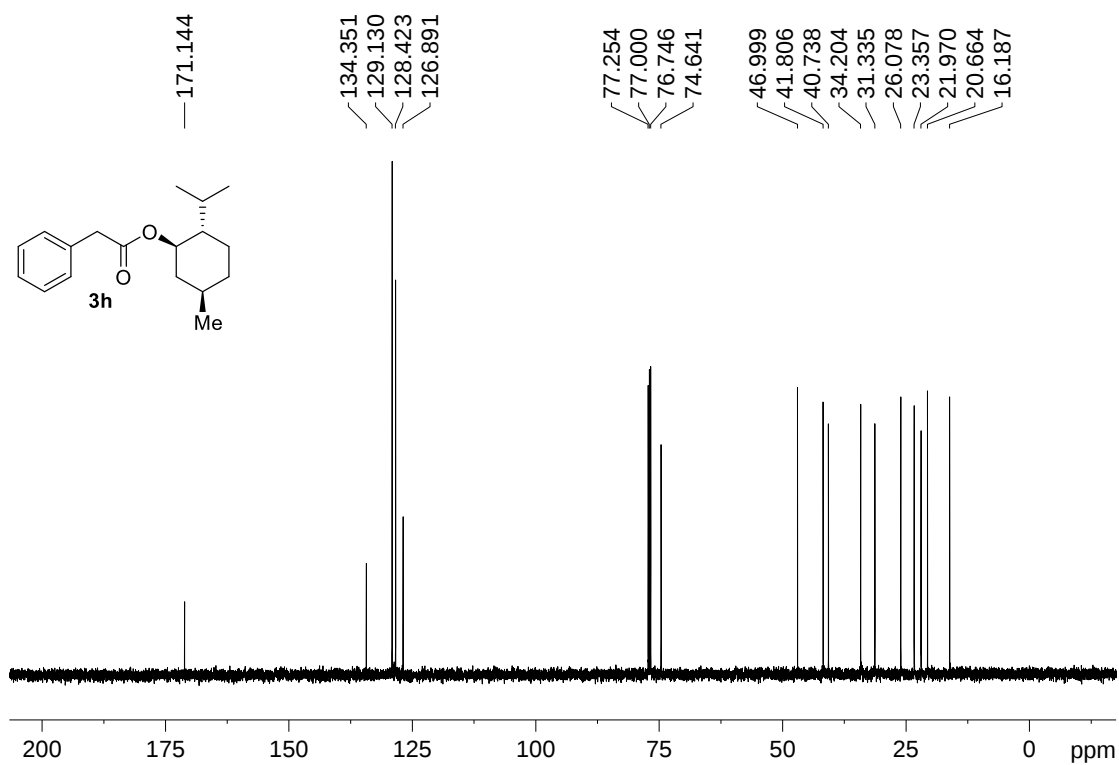
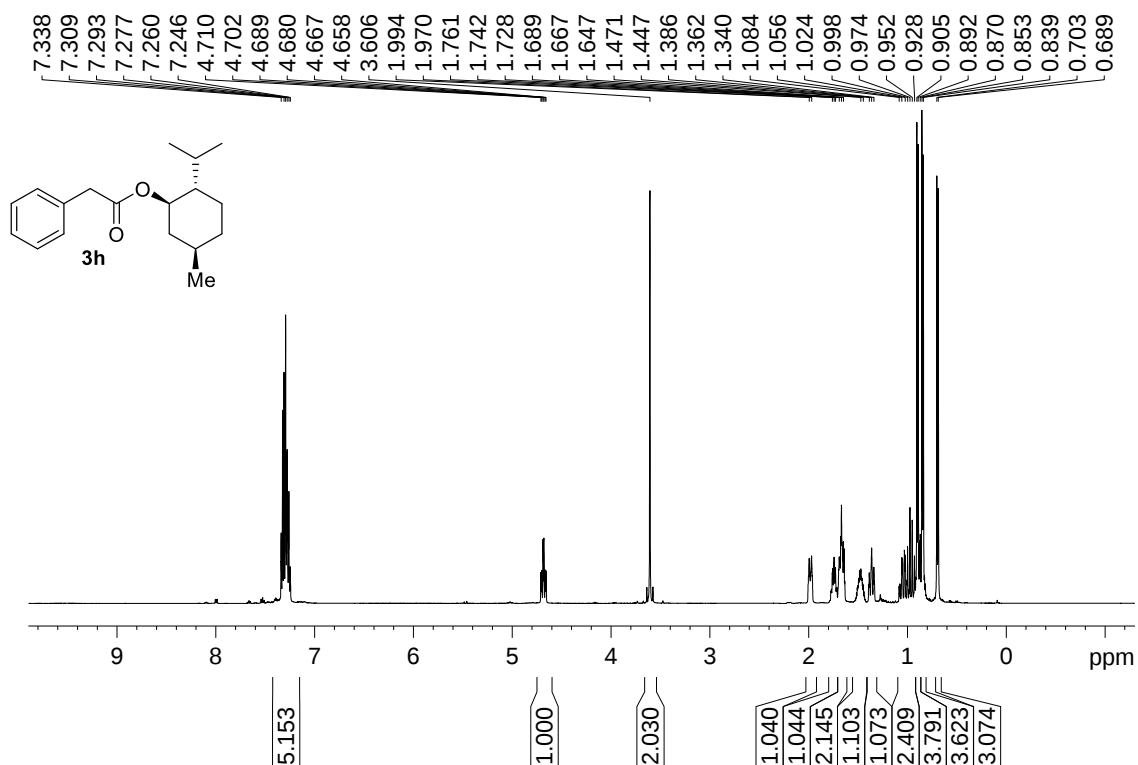


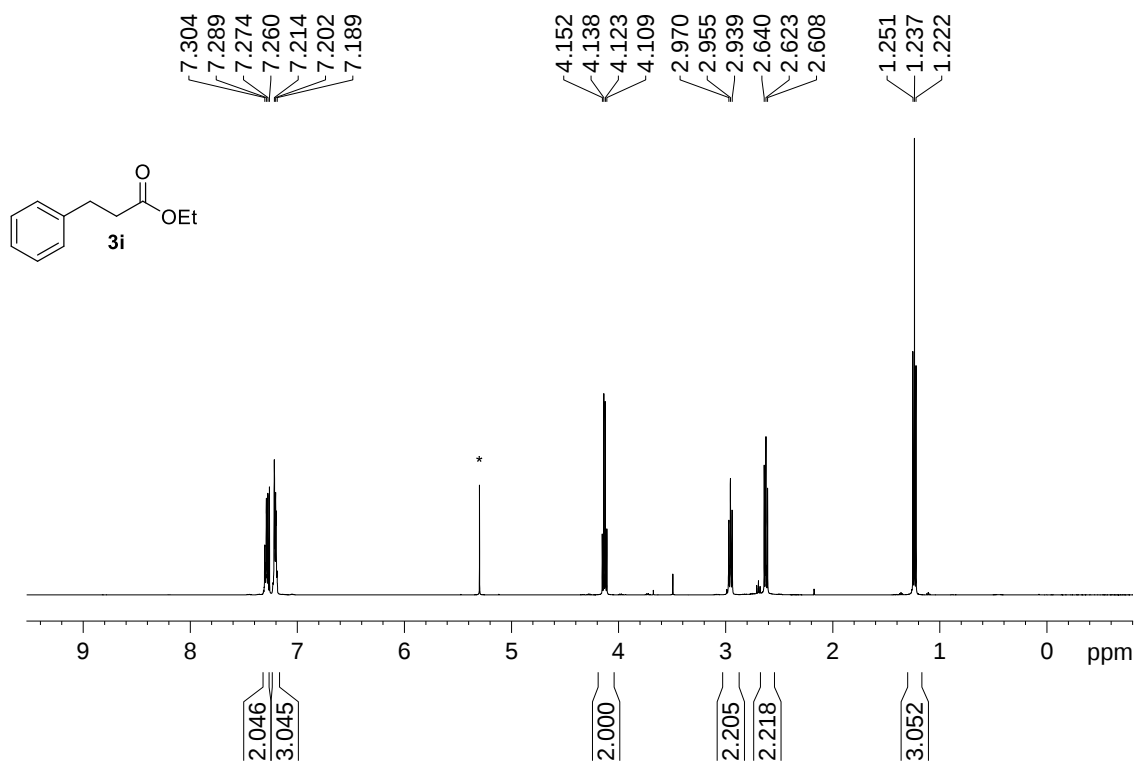




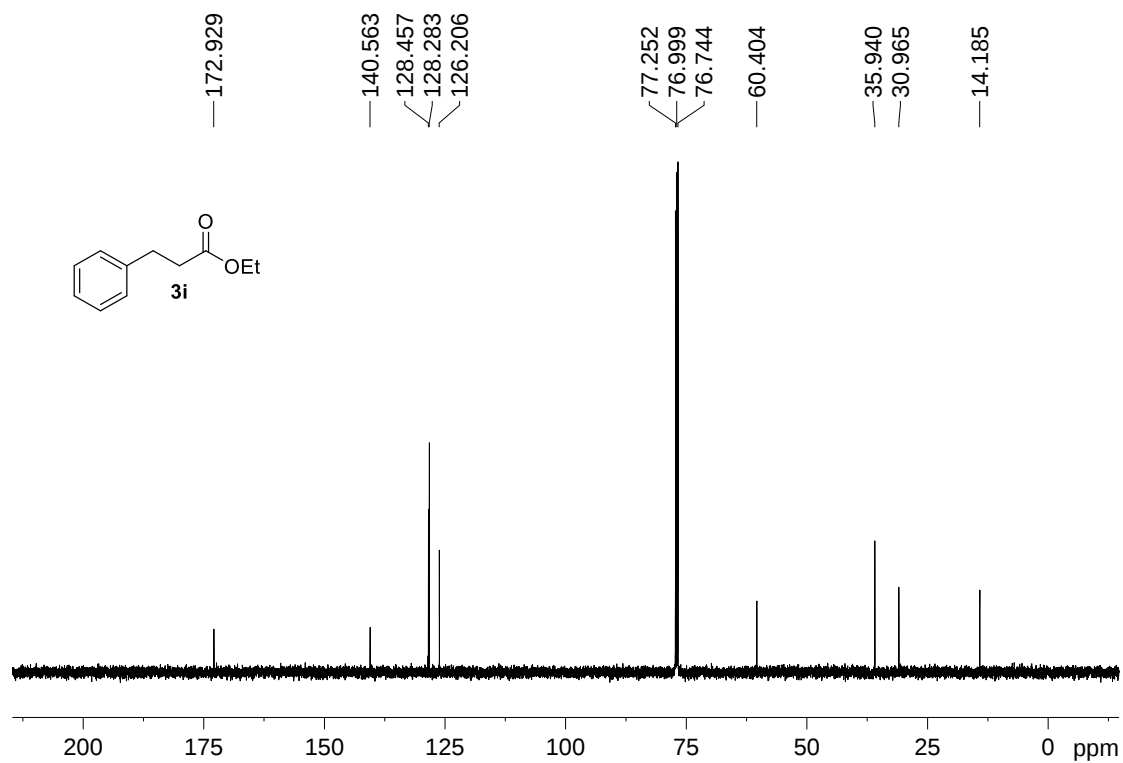


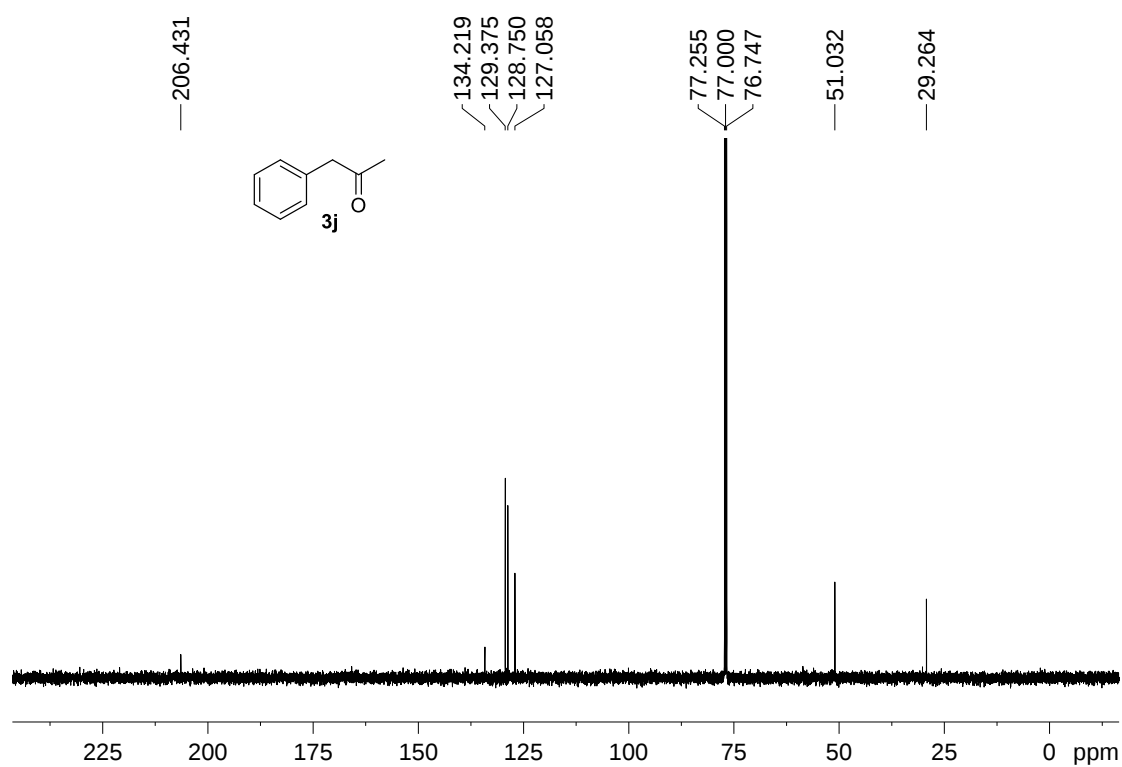
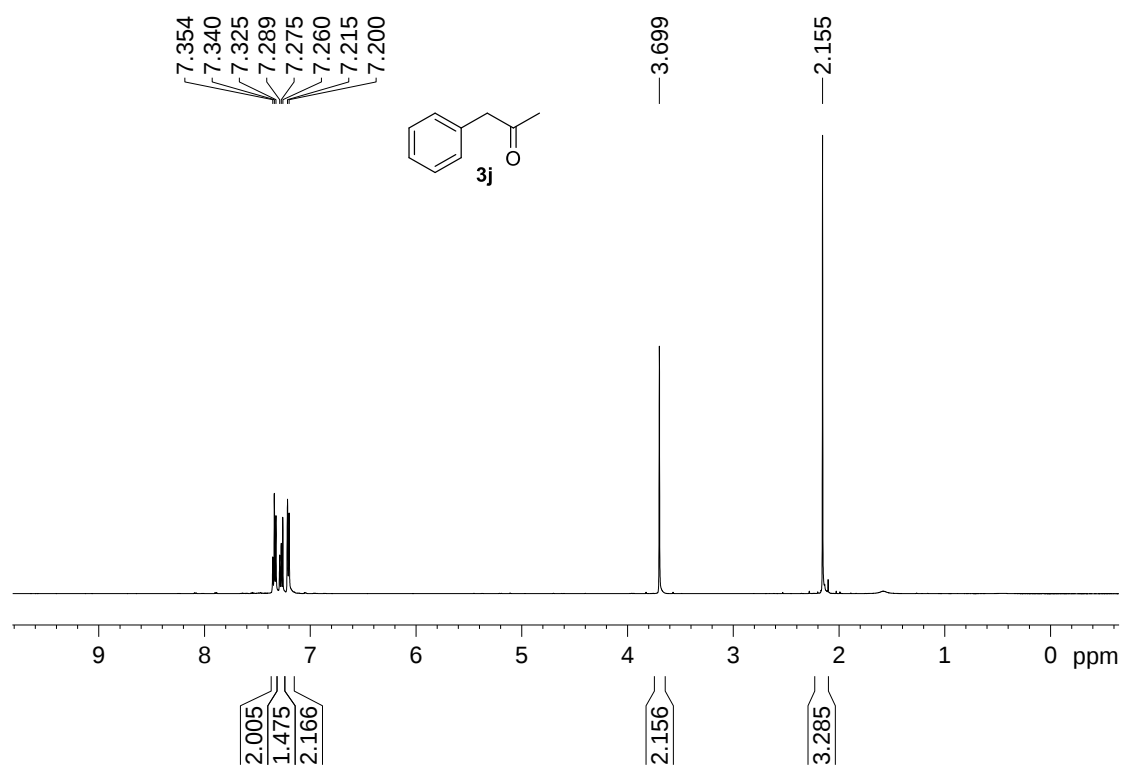


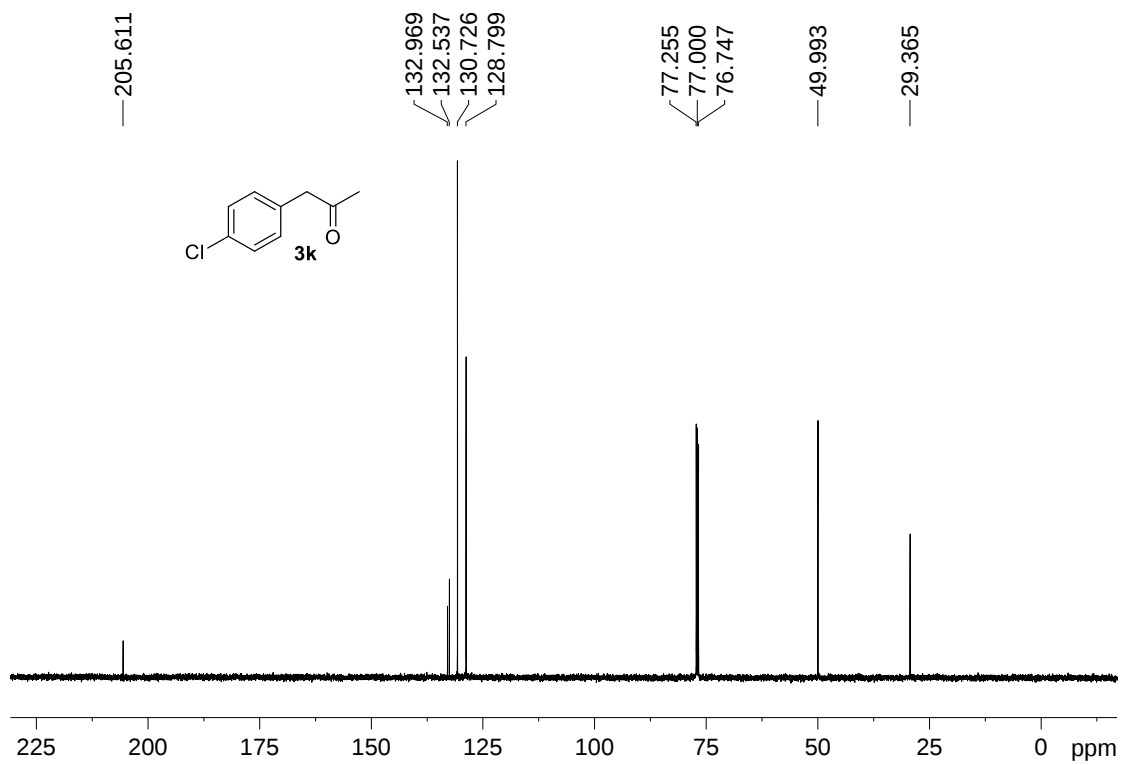
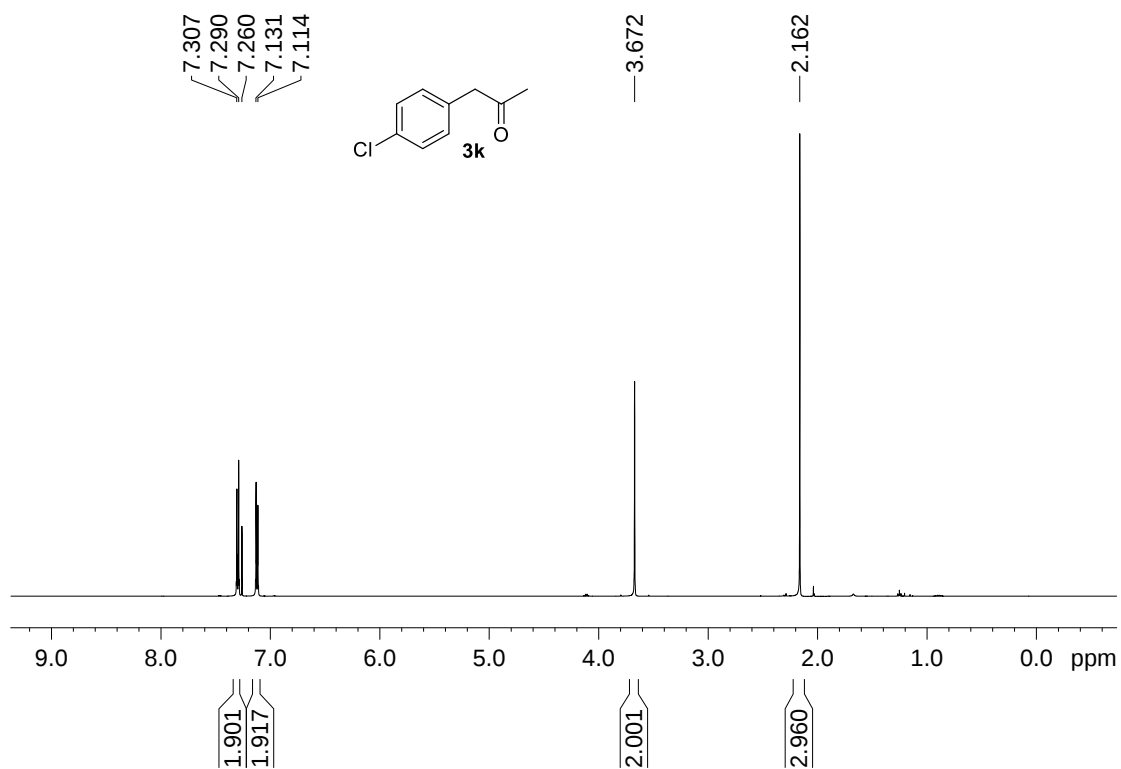


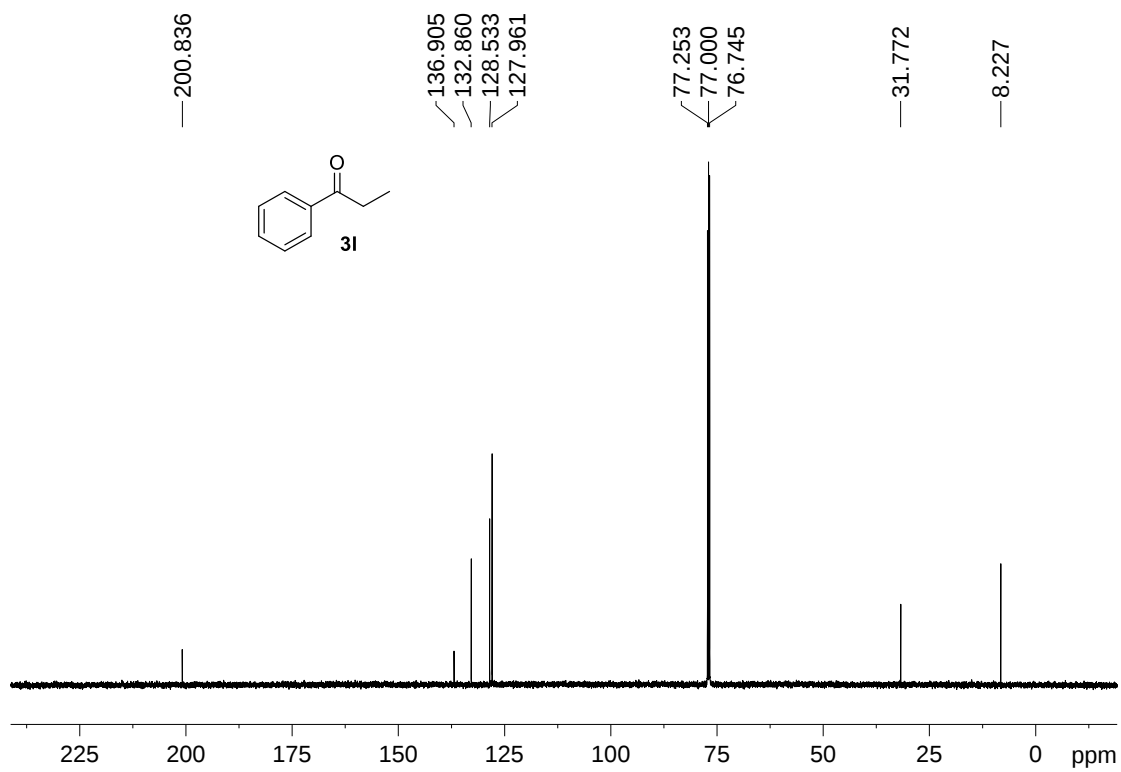
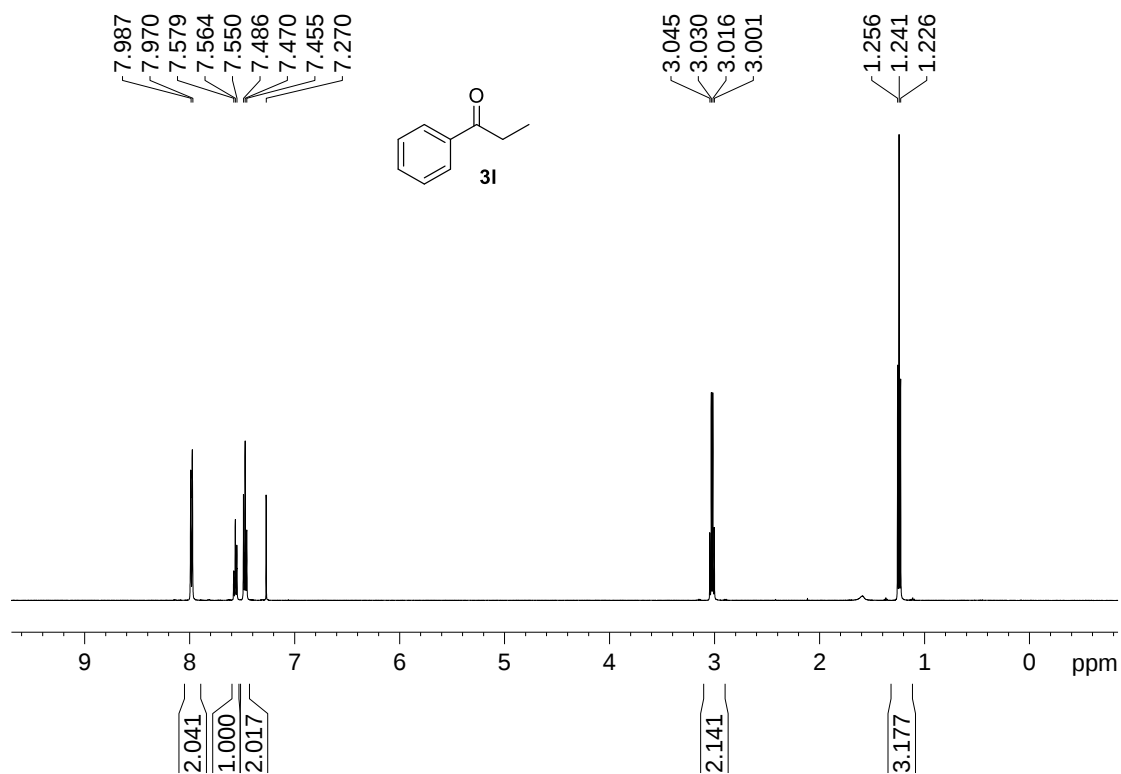


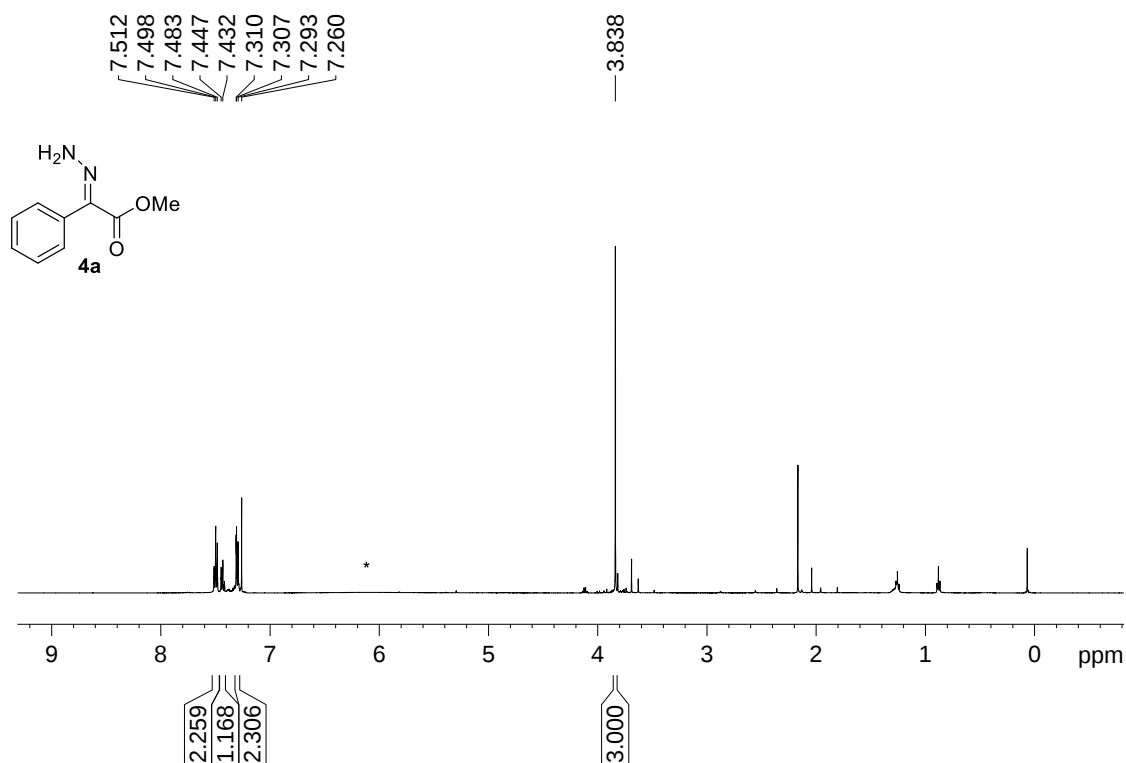
*DCM



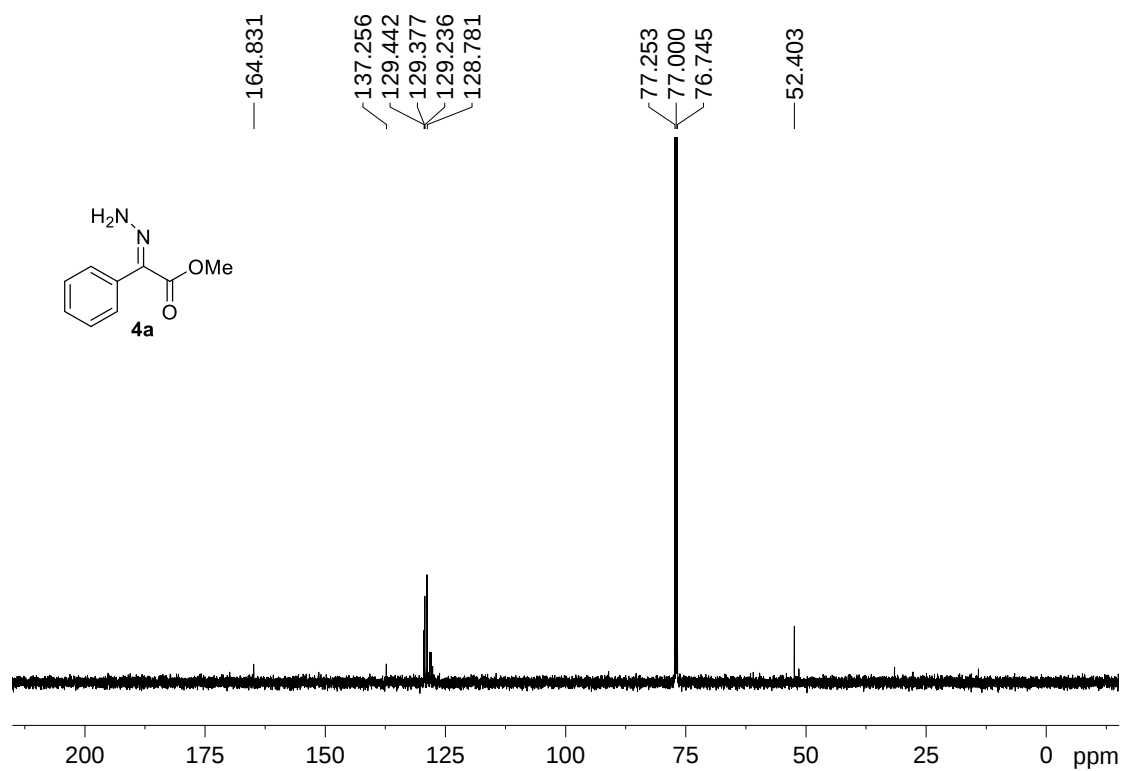


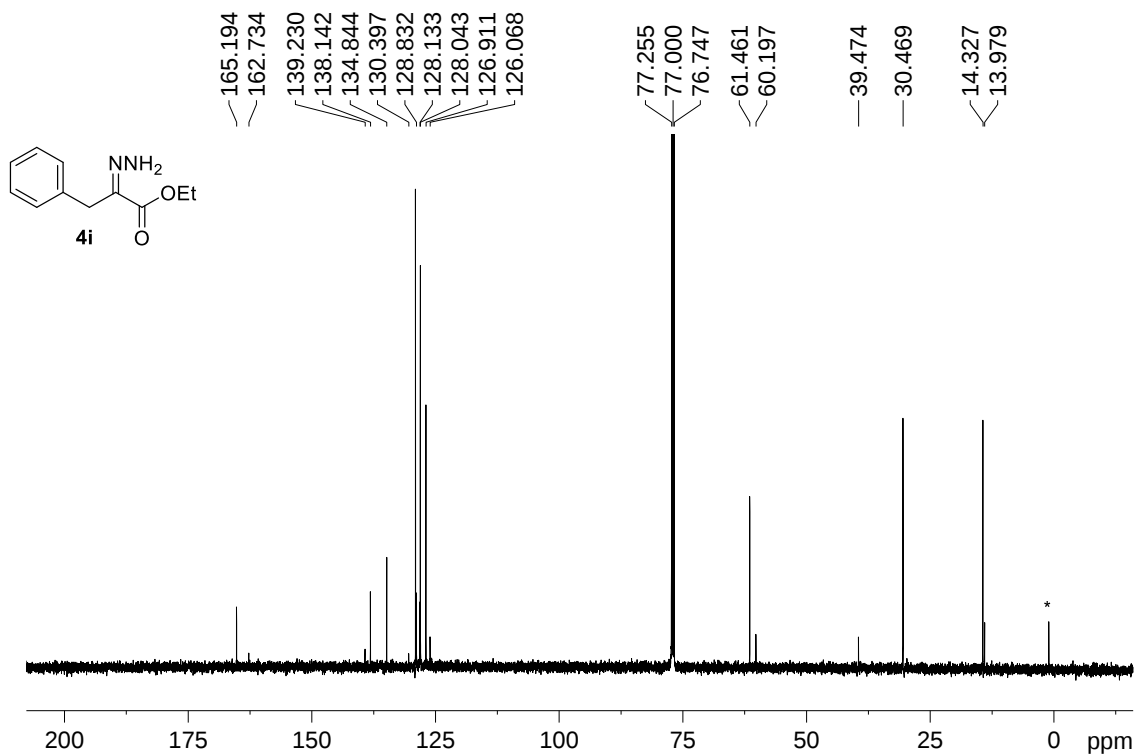
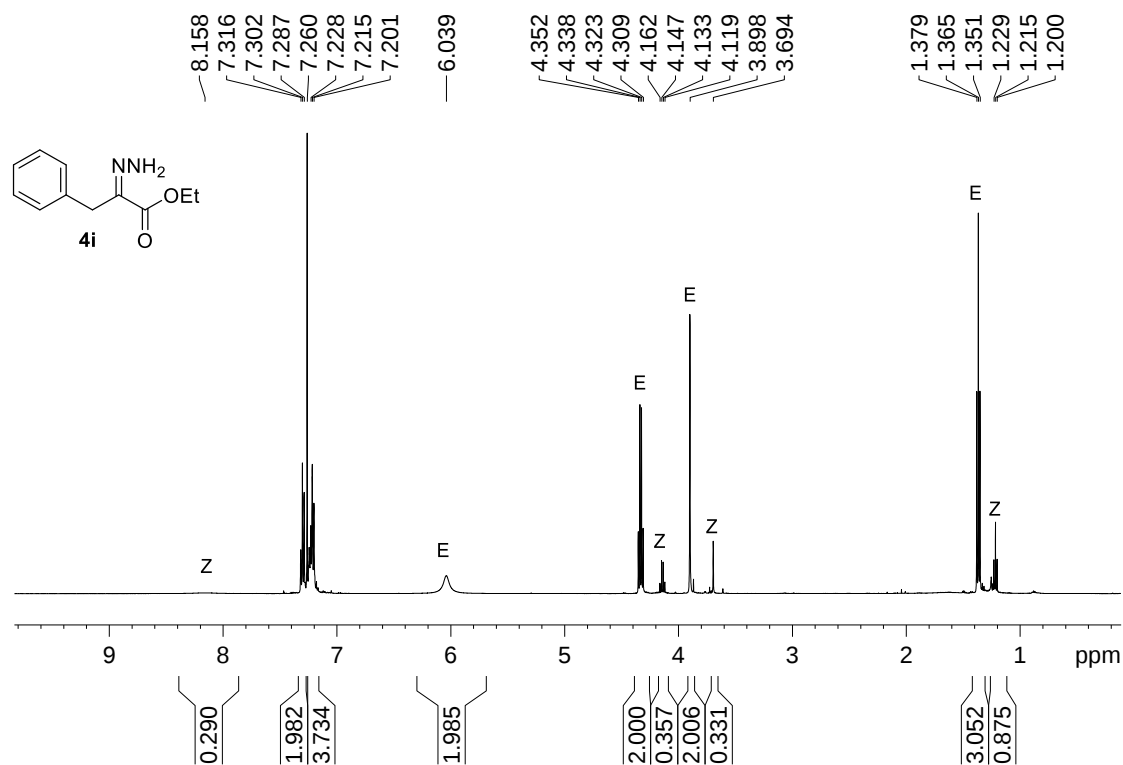




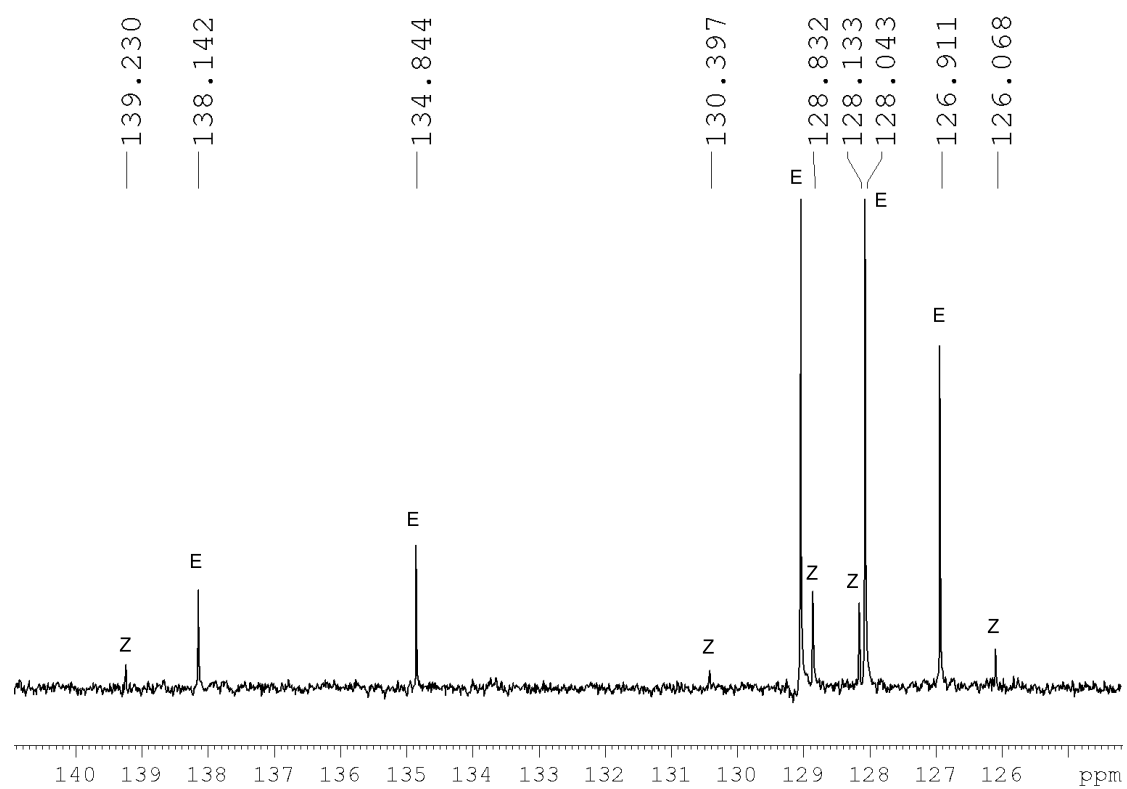


*The peak of NH₂ group is a quite broad singlet centered around 6.2 ppm.





*Silicon grease



Crude ^{11}B NMR spectra showing the boron-bearing byproducts arising from NH_3BH_3 and NaBH_4 in the reduction of α -diazocarbonyl compounds in CD_3OD under the Au/TiO_2 -catalyzed reaction conditions

