Supplementary Material

Reduction of quinolines to 1,2,3,4-tetrahydroquinolines with hydrosilane/ethanol catalyzed by TiO_2-supported gold nanoparticles under solvent free conditions

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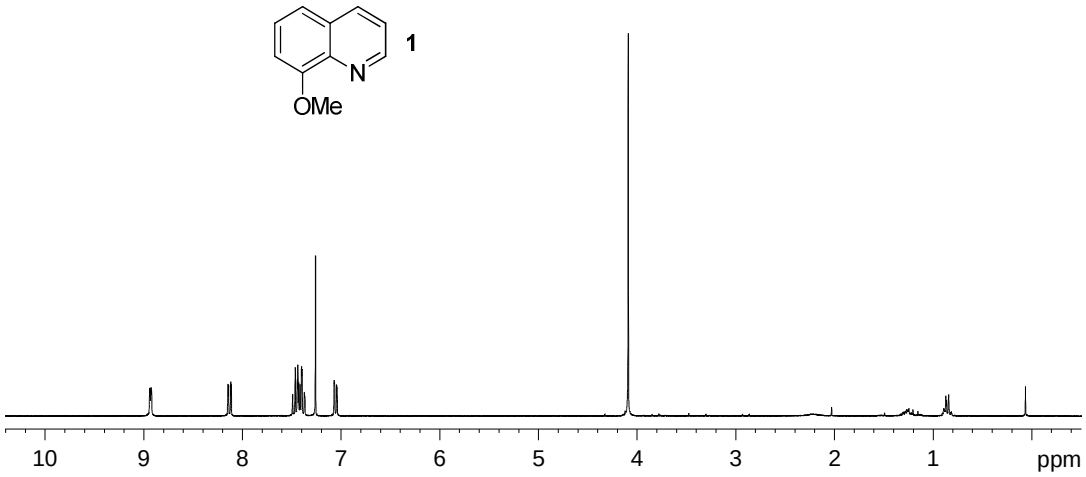
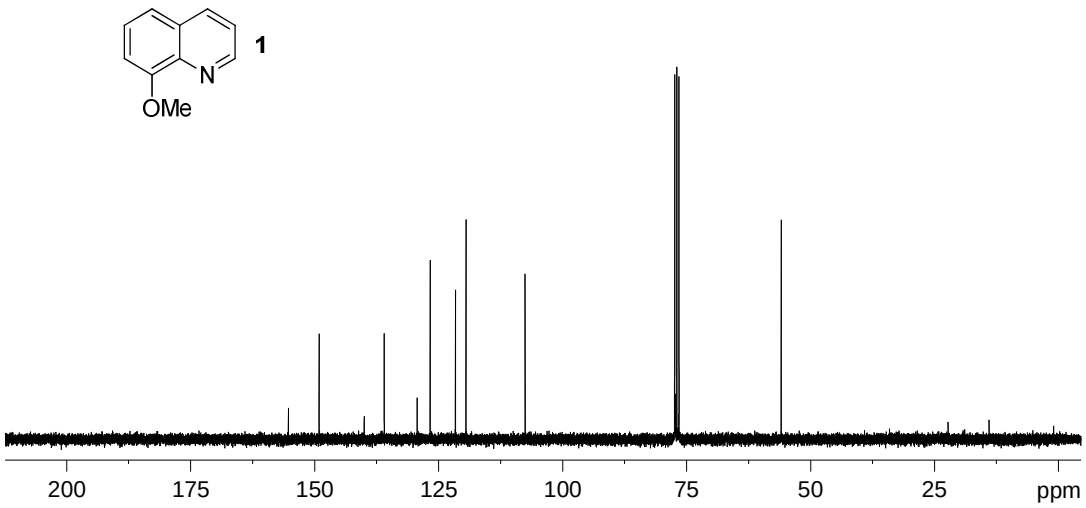
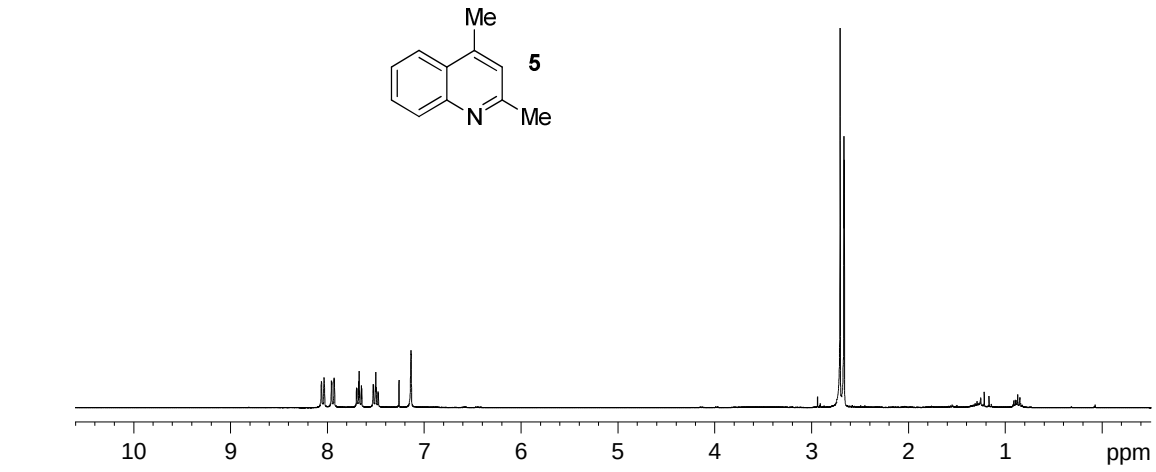
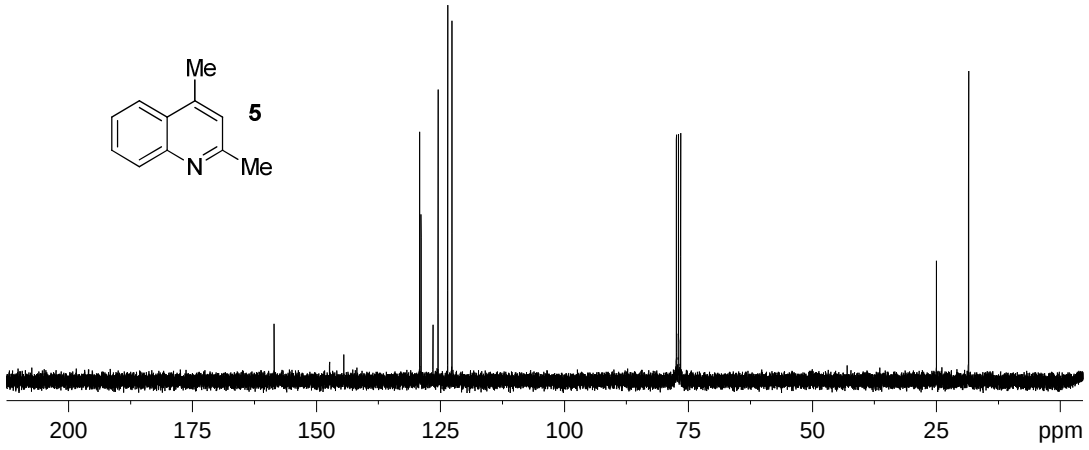
Dedicated to Professor Michael Orfanopoulos on the occasion of his 67th birthday and retirement, and for his remarkable contribution in physical organic chemistry

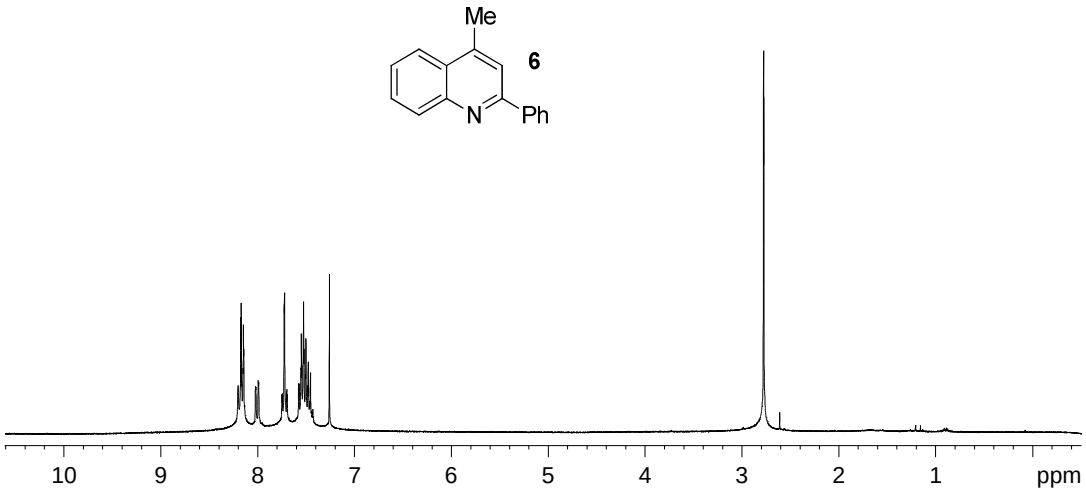
^{1}H and ^{13}C NMR spectra of synthesized quinolines

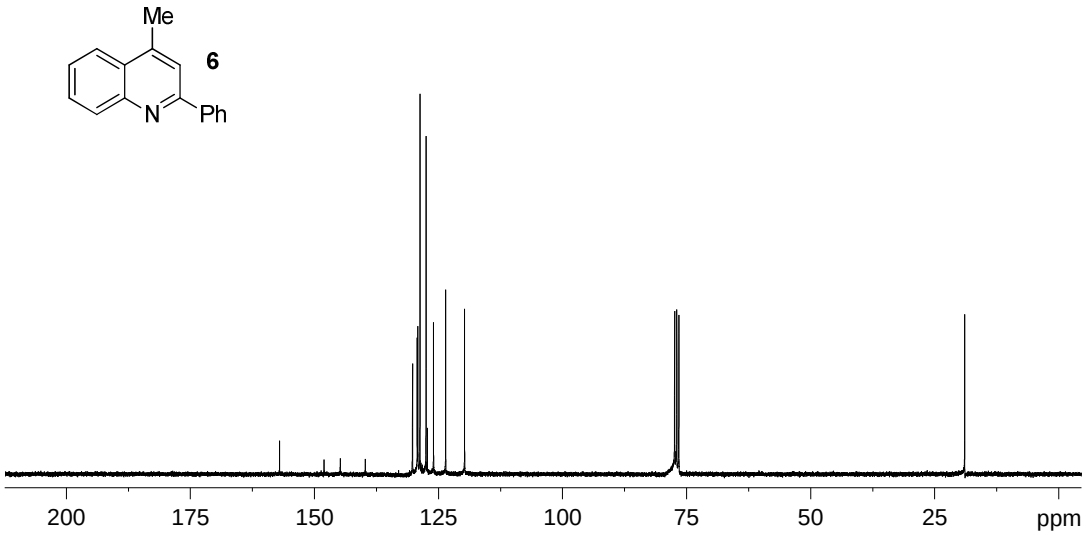


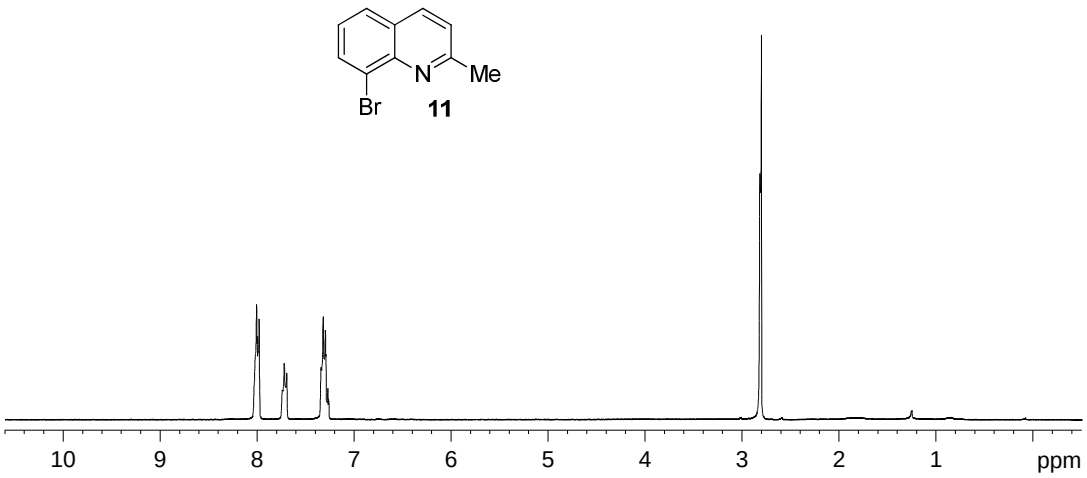


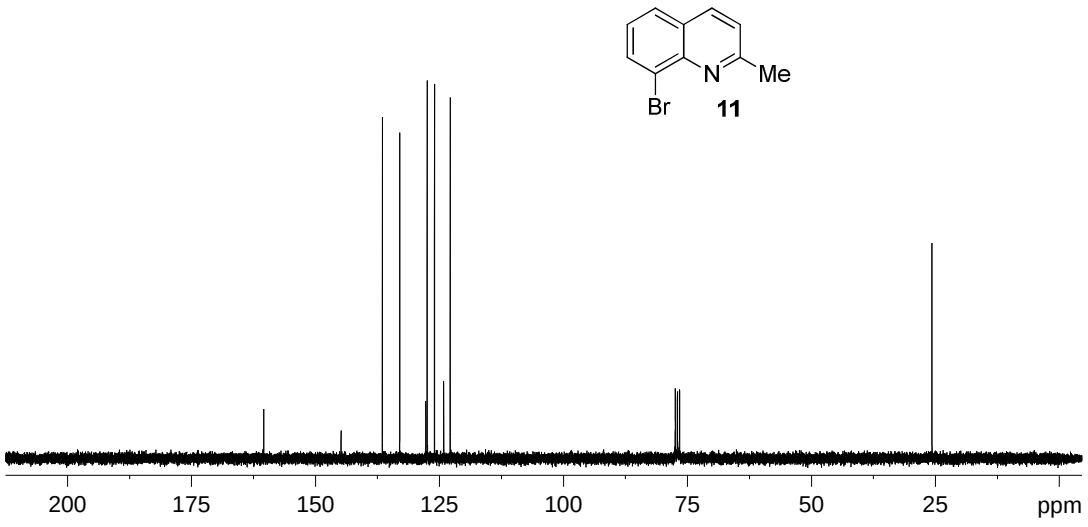




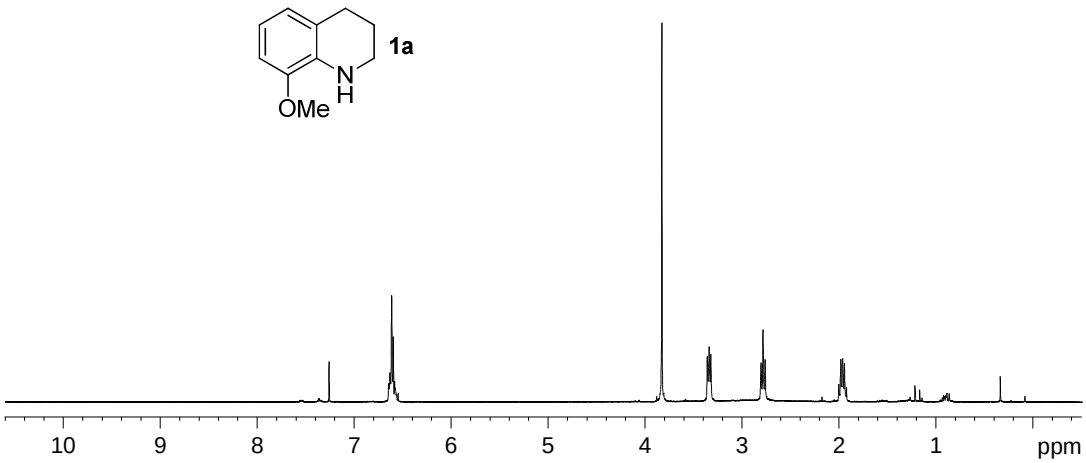


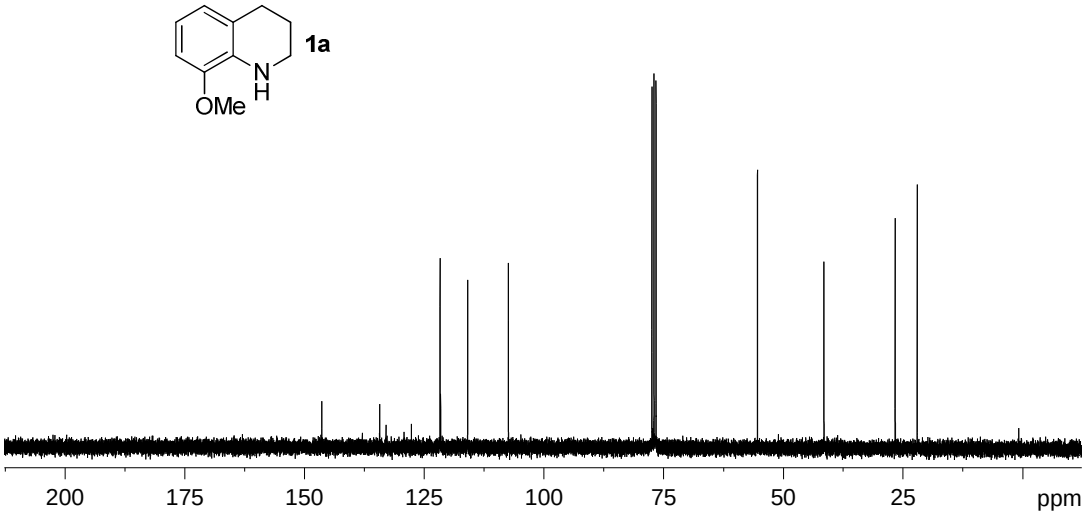


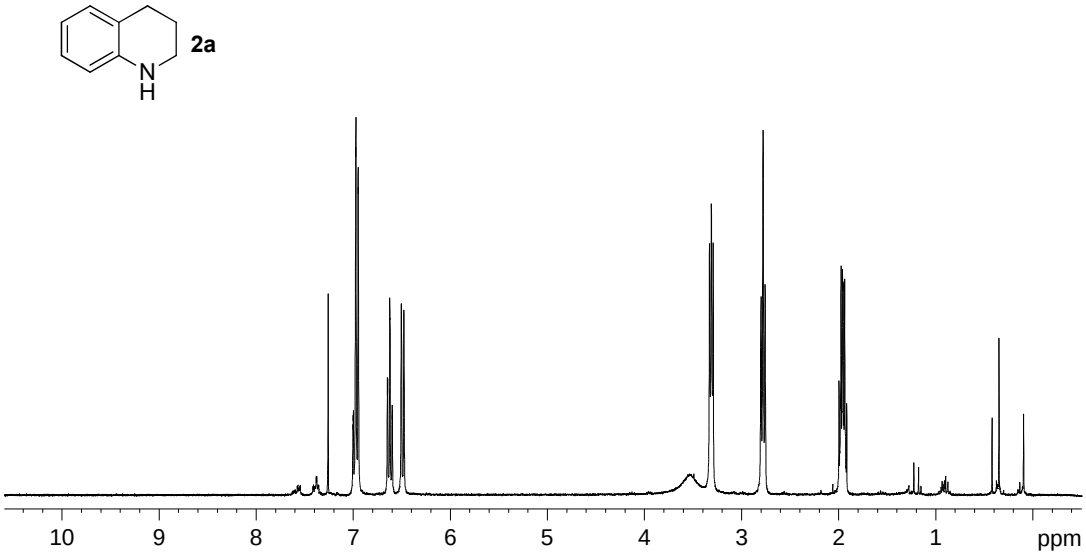


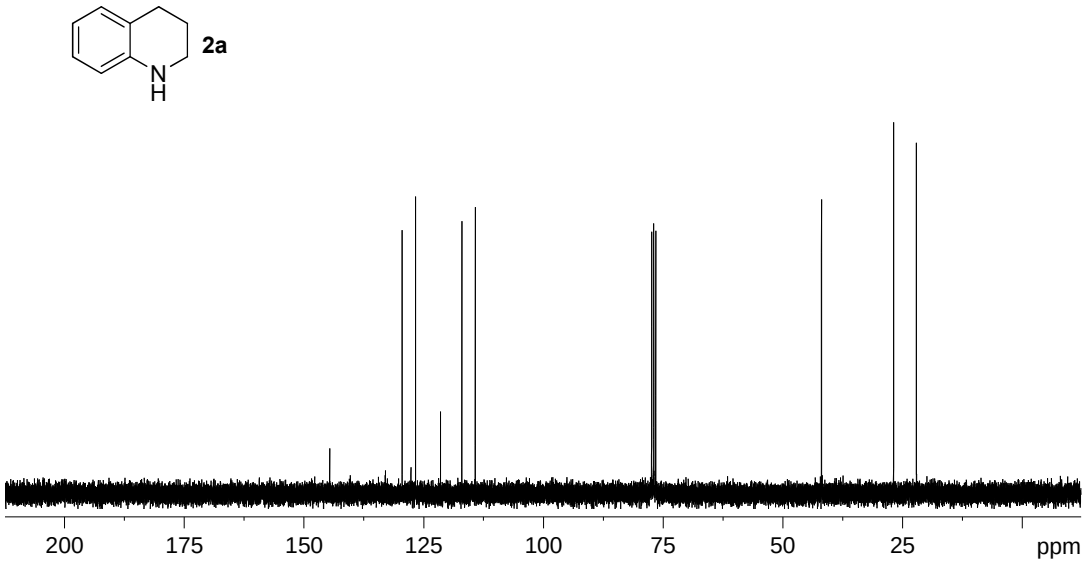


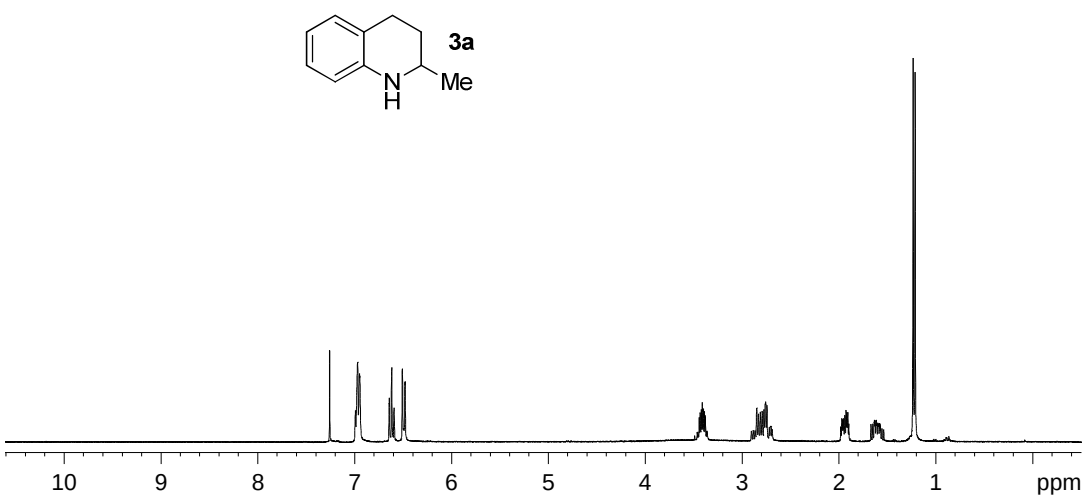
^{1}H and ^{13}C NMR spectra of isolated 1,2,3,4-tetrahydroquinolines

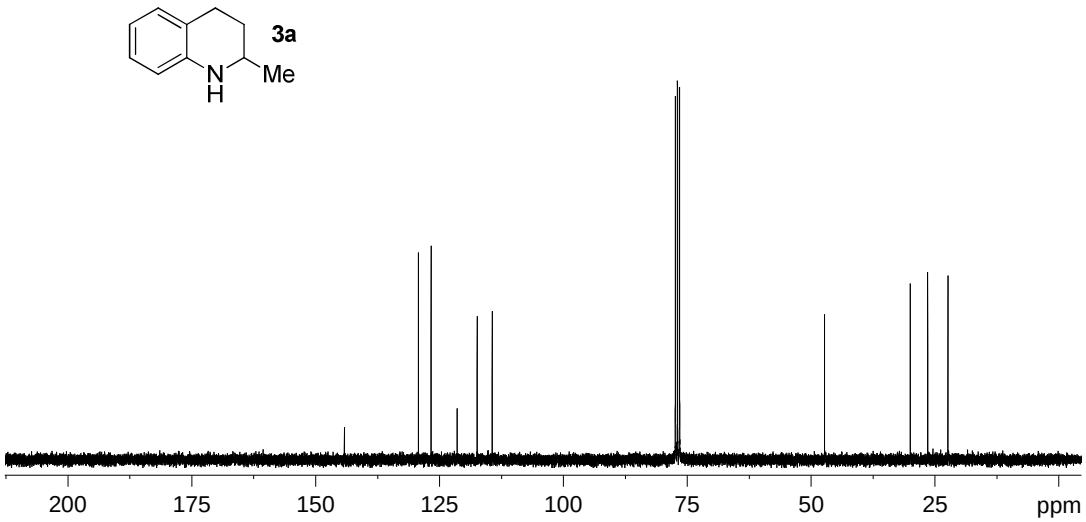


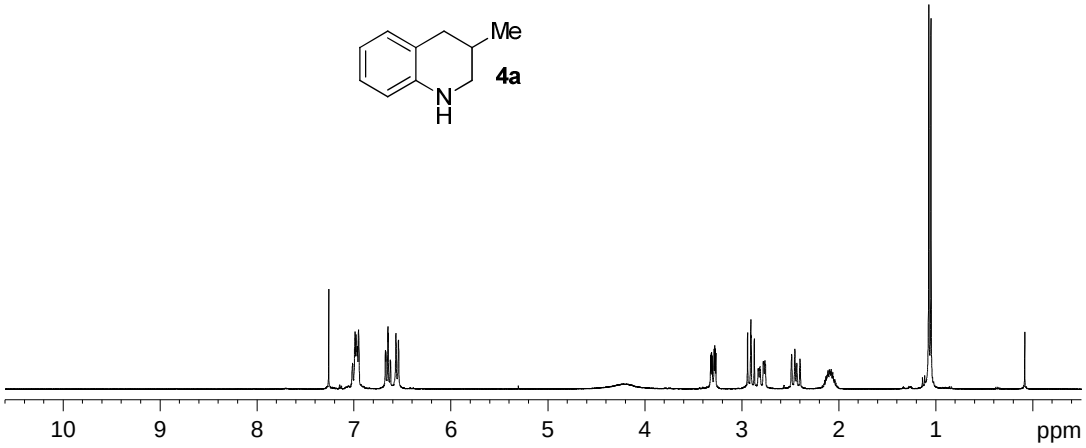


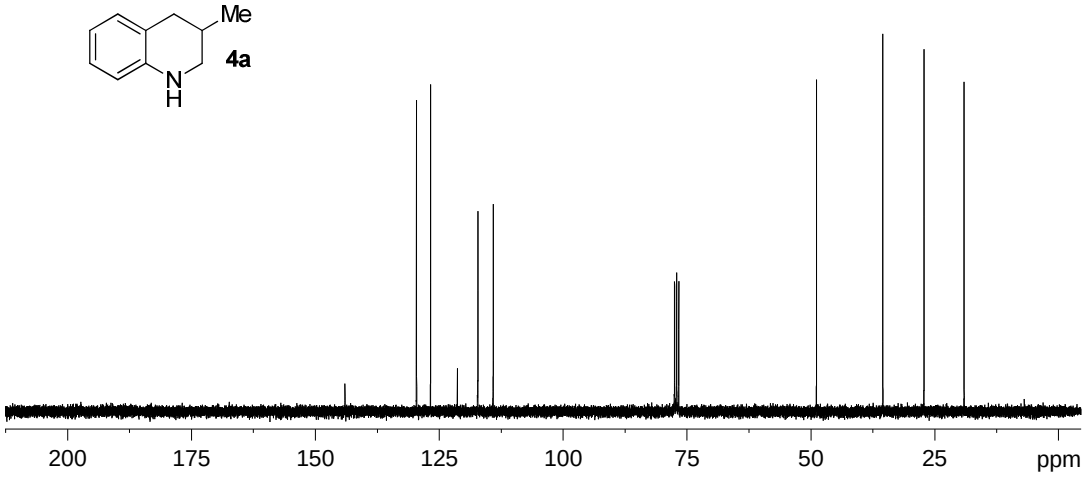


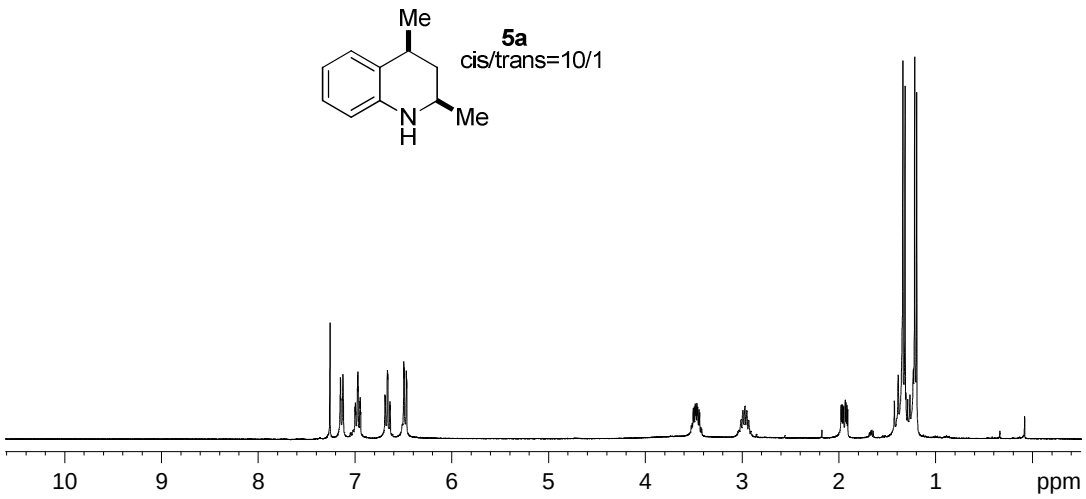


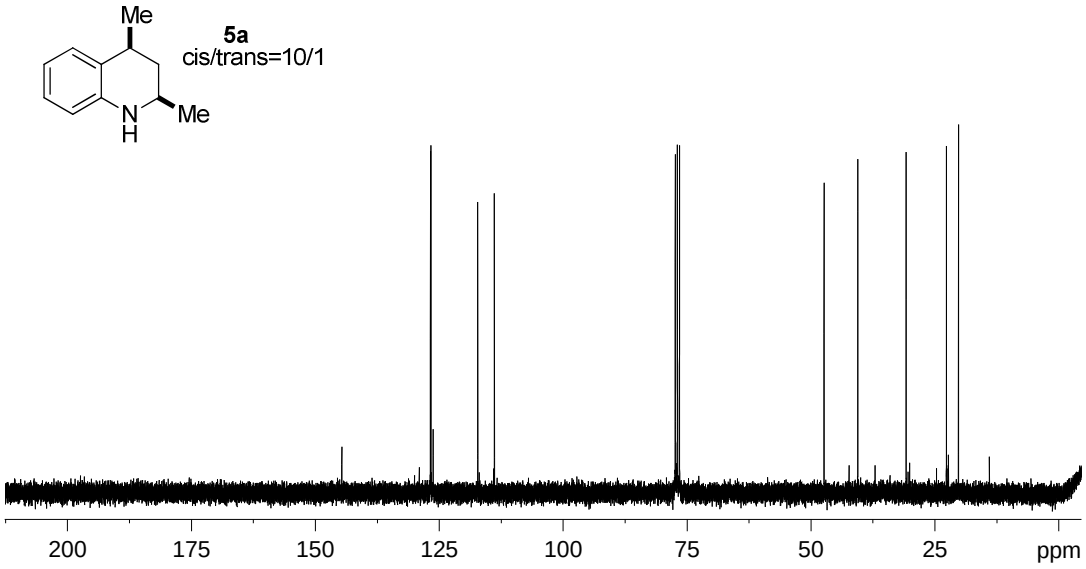


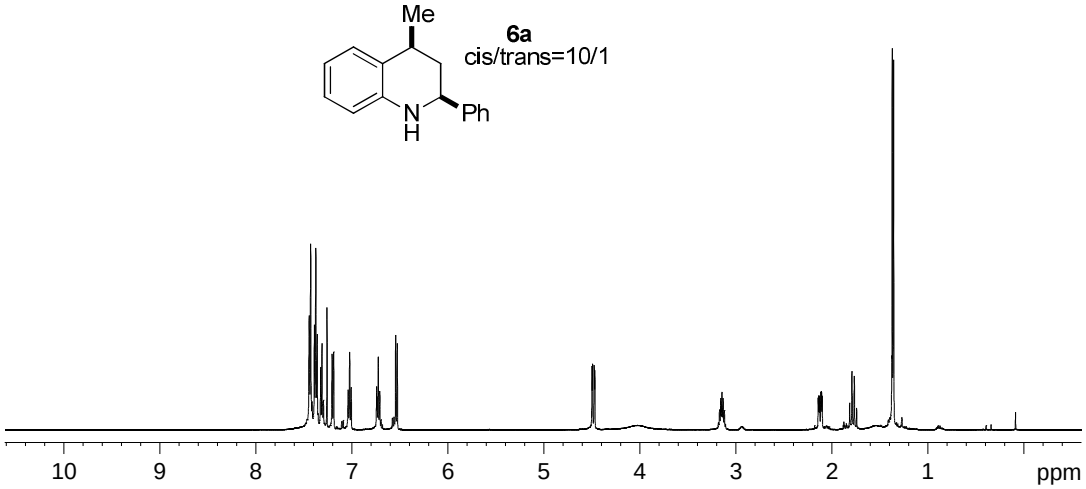


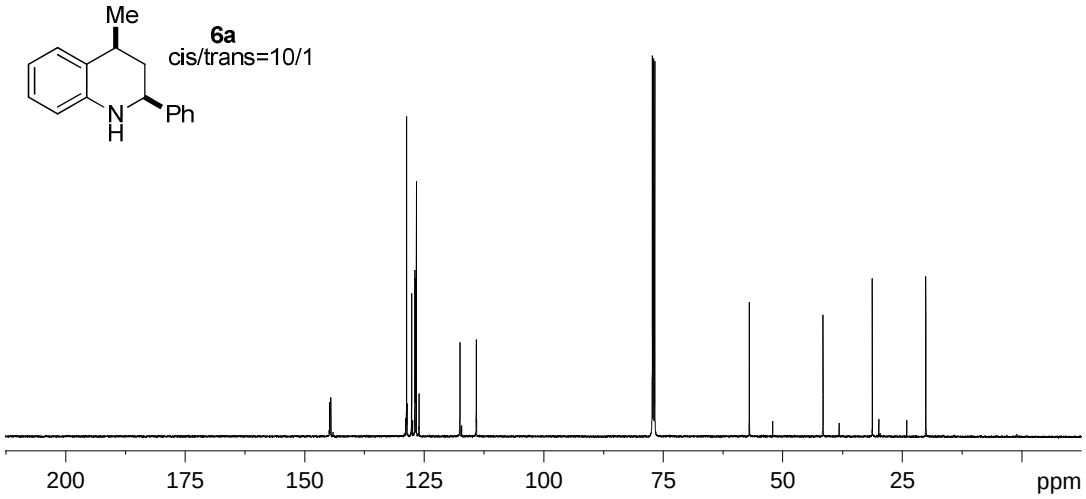


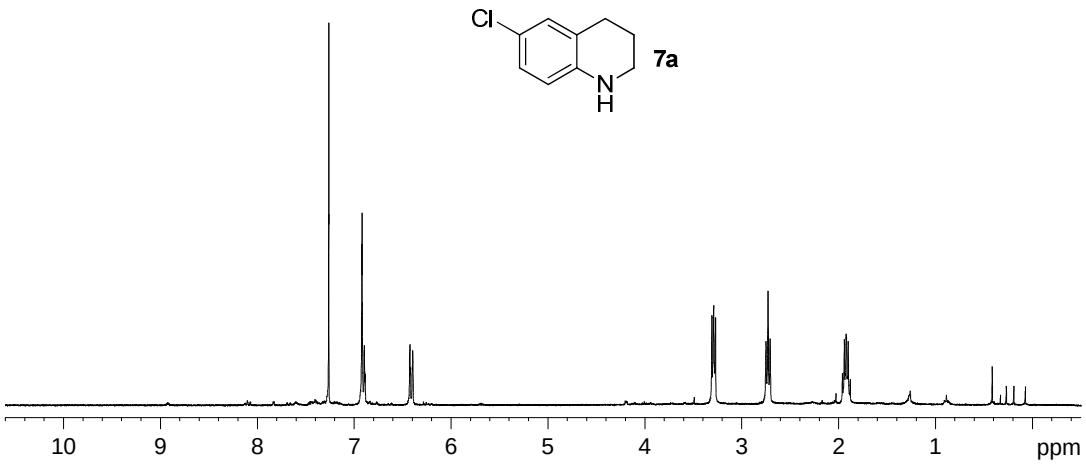


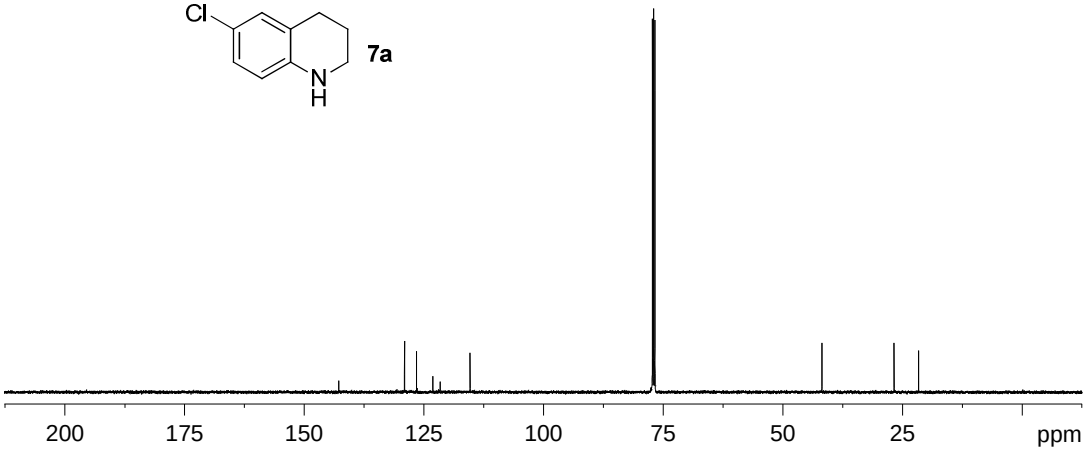


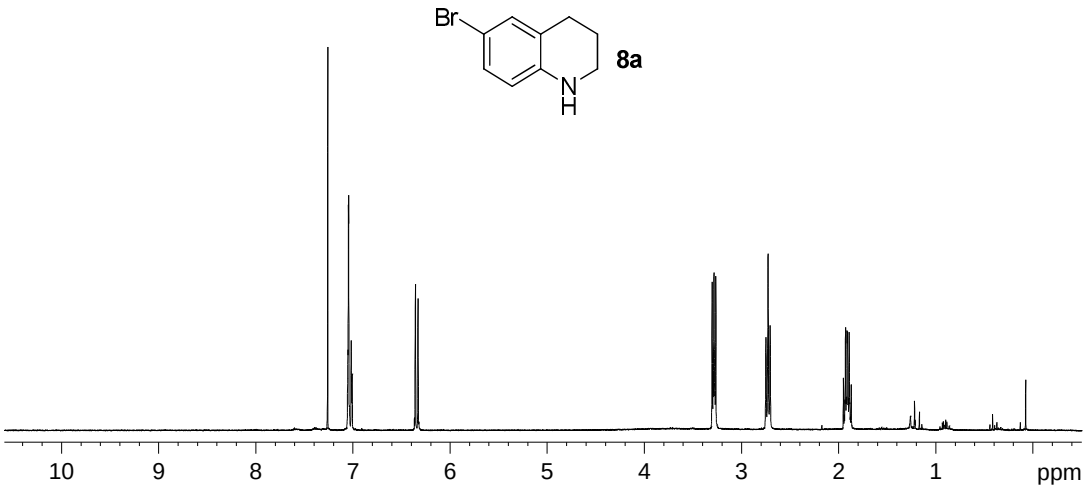


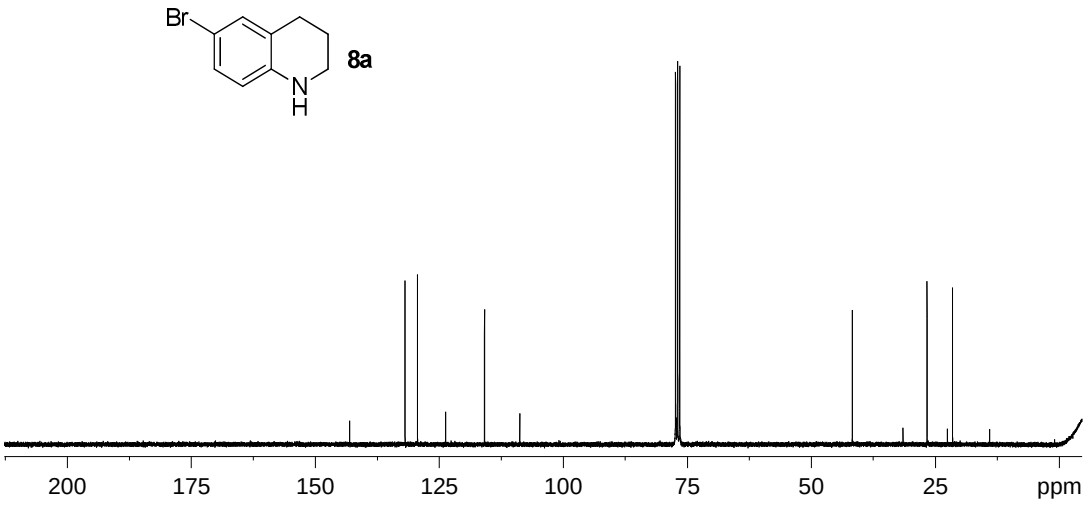


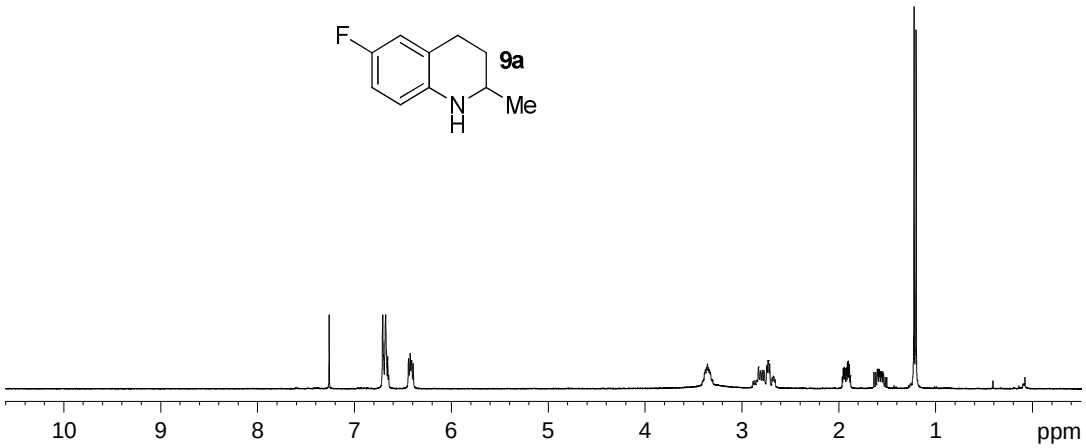


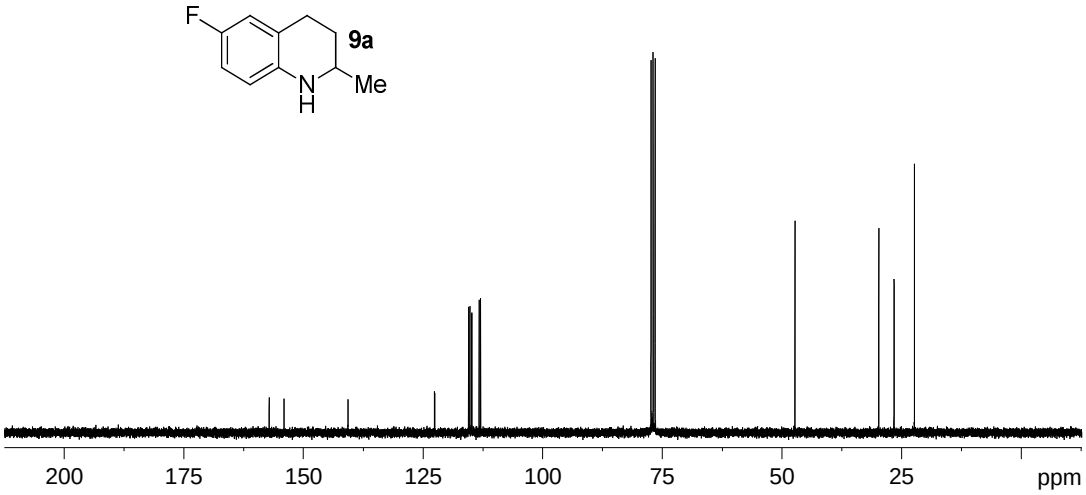


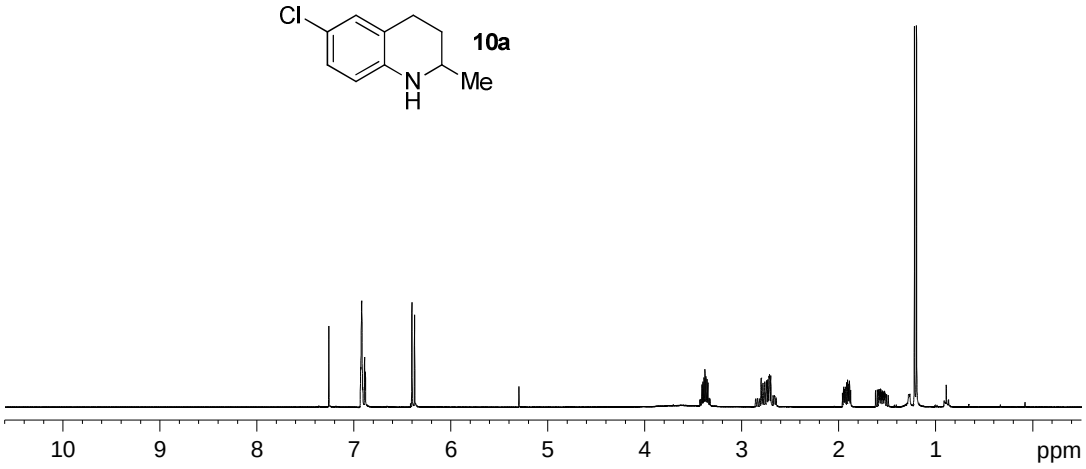


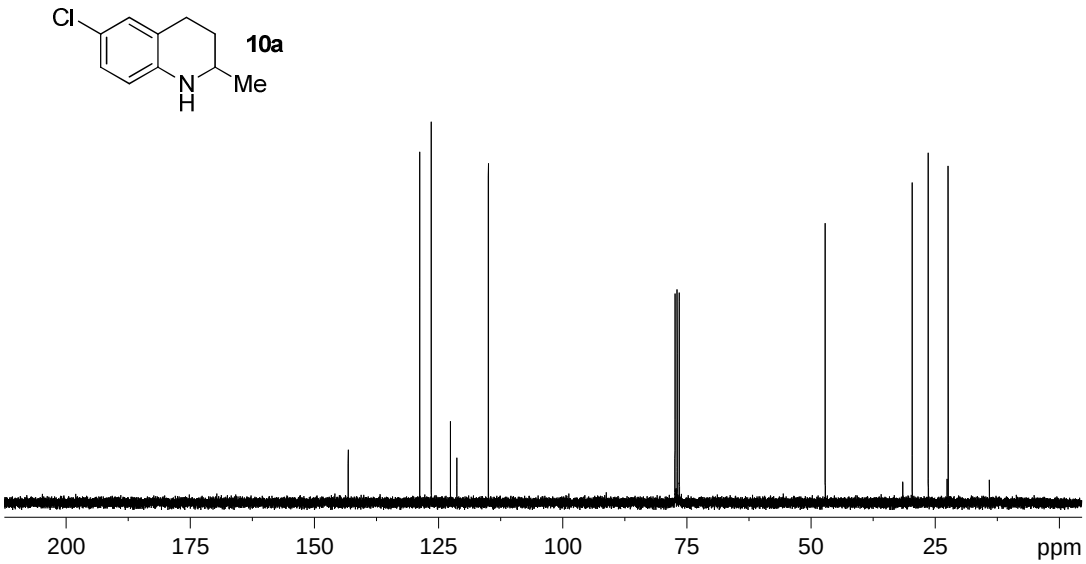


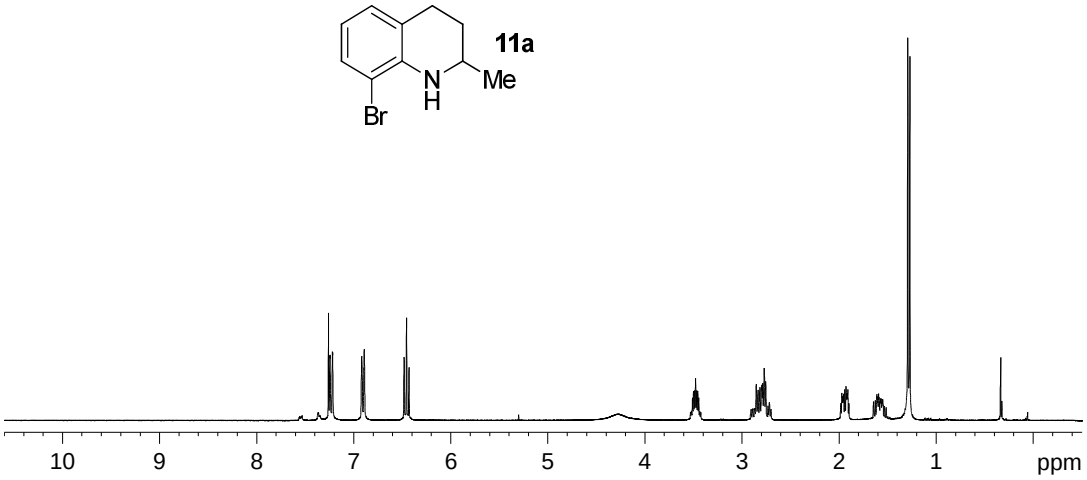


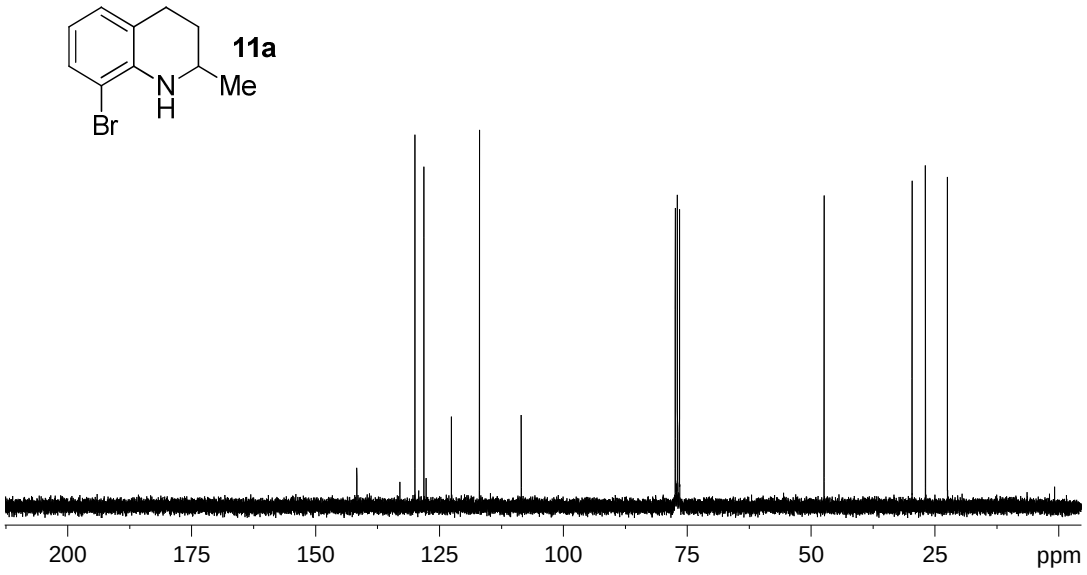




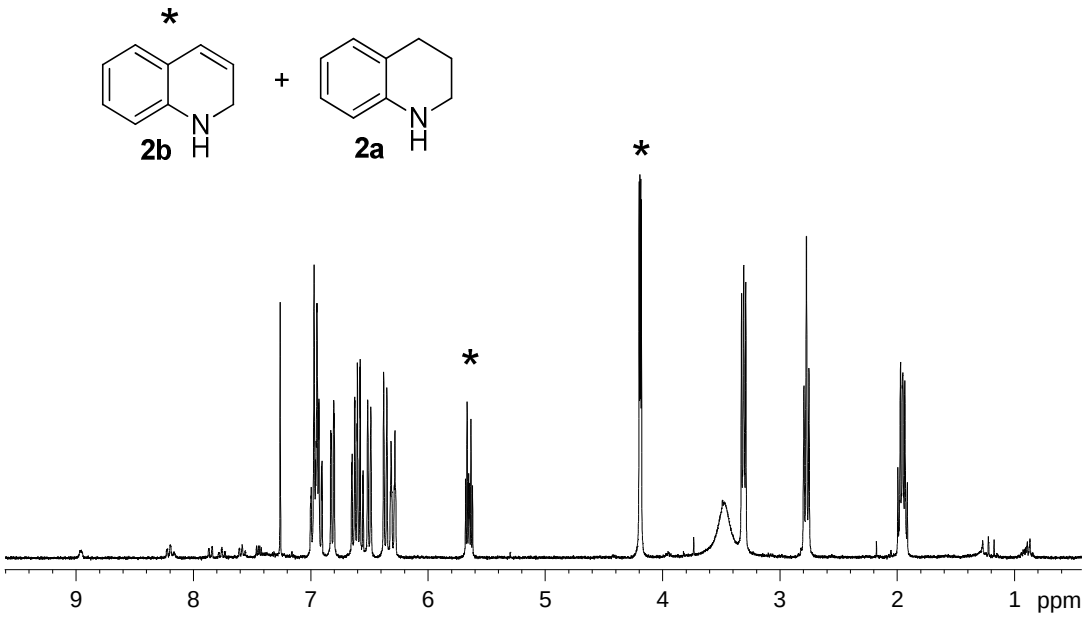




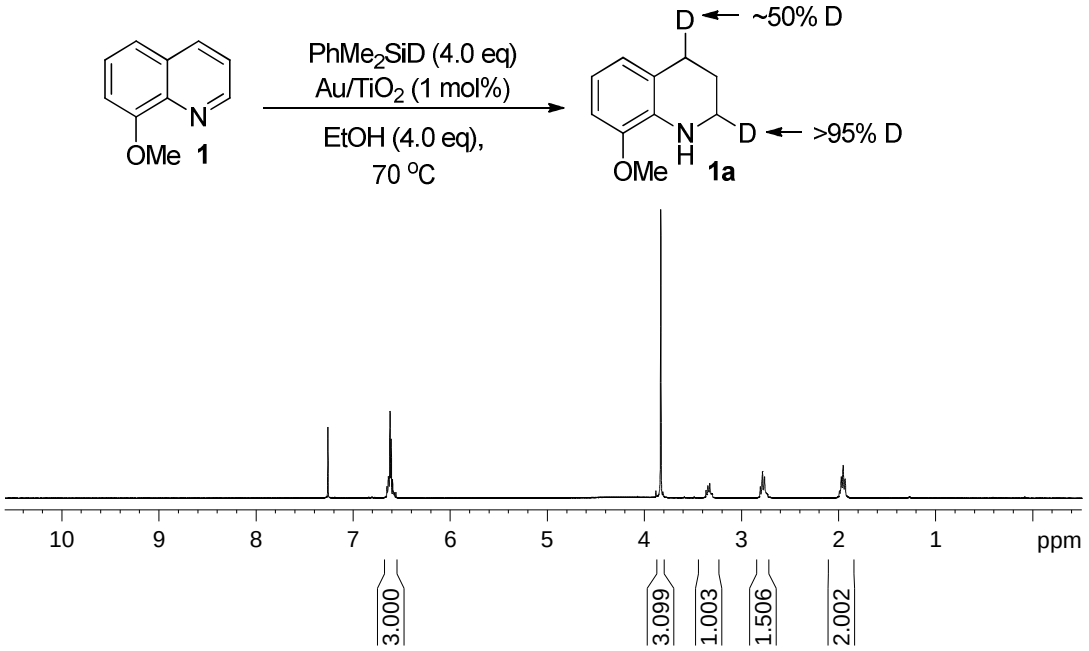




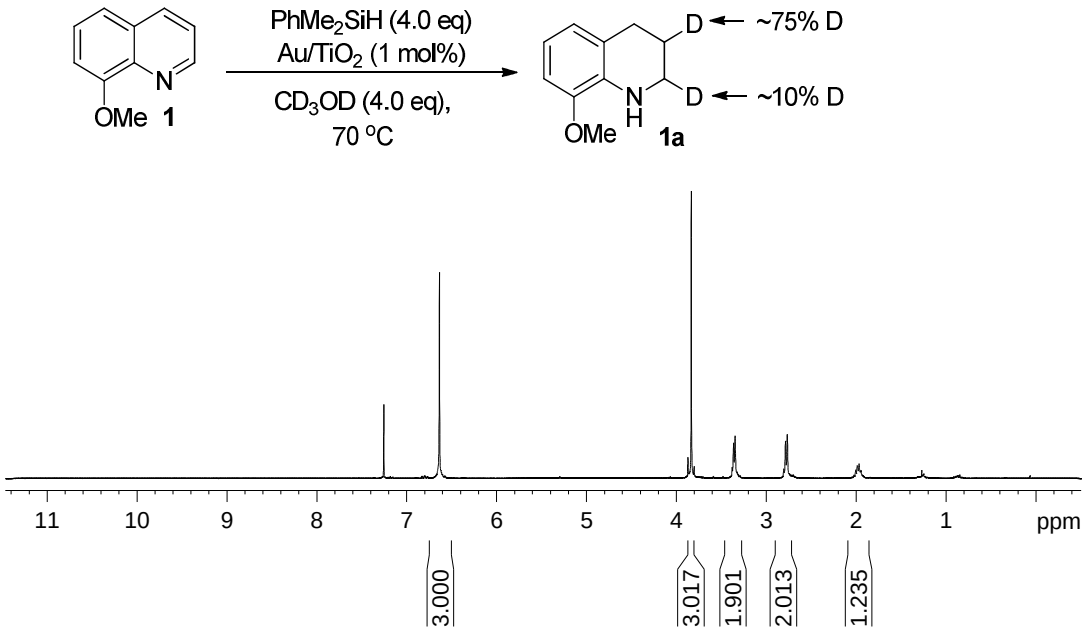
^{1}H NMR spectrum of co-isolated 2a and intermediate product 2b during the reduction of parent quinoline 2



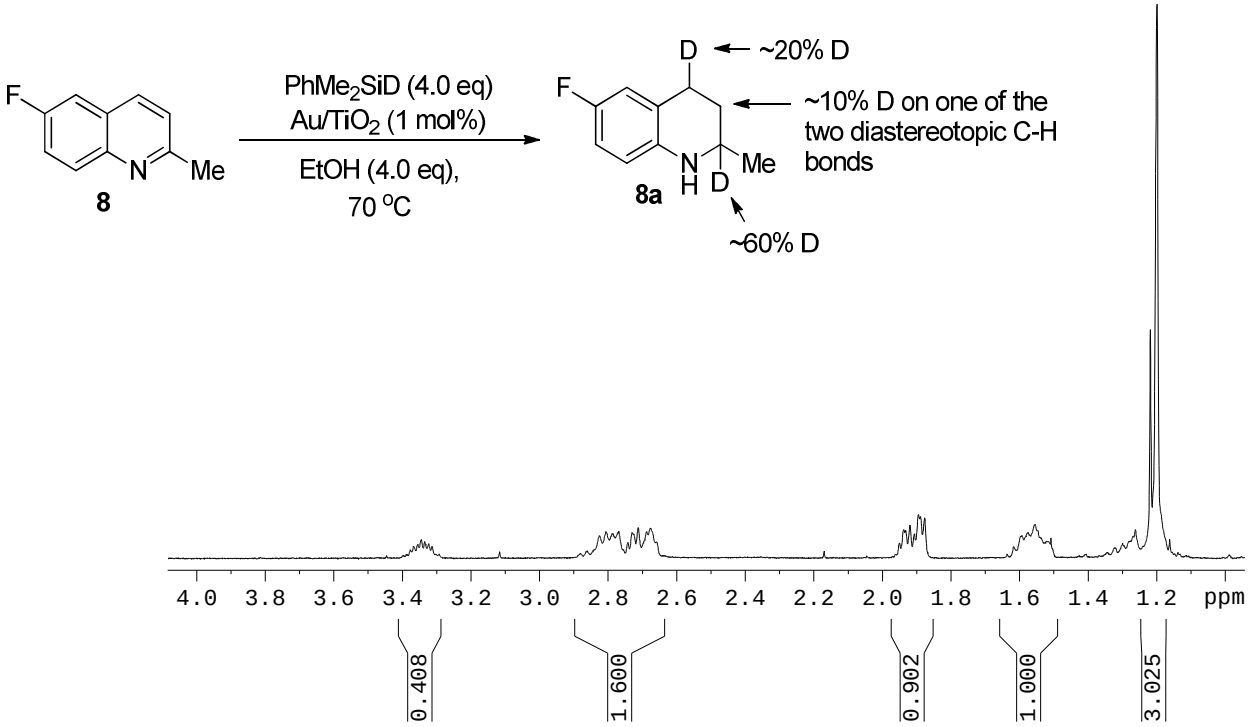
^{1}H NMR spectrum of reduction product 1a in the presence of $PhMe_2SiD/EtOH$



^{1}H NMR spectrum of reduction product 1a in the presence of $PhMe_2SiH/CD_3OD$



Region of the ^{1}H NMR spectrum of reduction product 8a in the presence of $PhMe_2SiD$/EtOH



^{1}H NMR and MS spectra of isolated side-product $PhMe_2SiOCH_2CH_3$