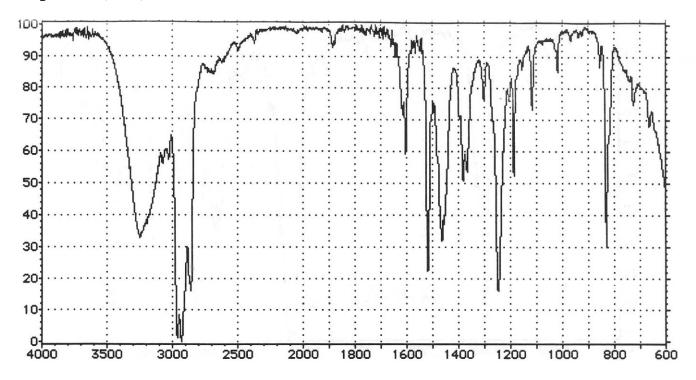
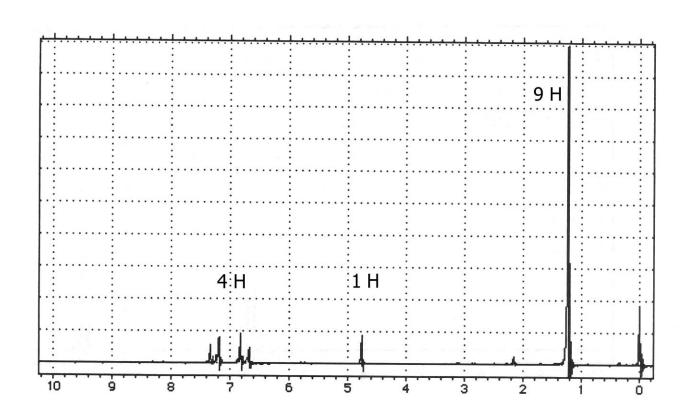
Identification of Organic Compounds Using IR and ¹H-NMR Spectroscopy

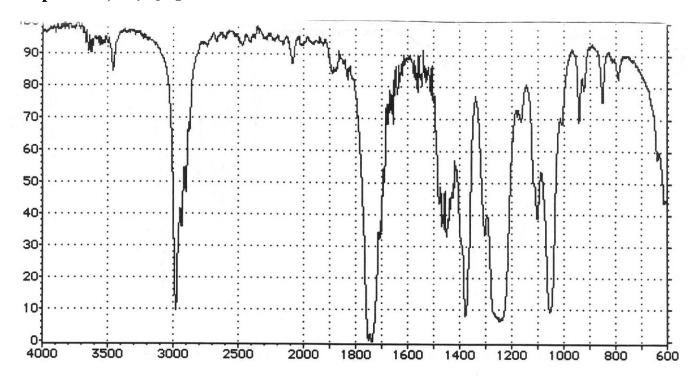
The following infrared and proton NMR spectra provide a good introduction to the use of these techniques for identifying organic compounds and their structures. The top spectra are IR and the bottom spectra are ¹H-NMR. Based on the spectra and the given molecular formula, write the structure of each compound.

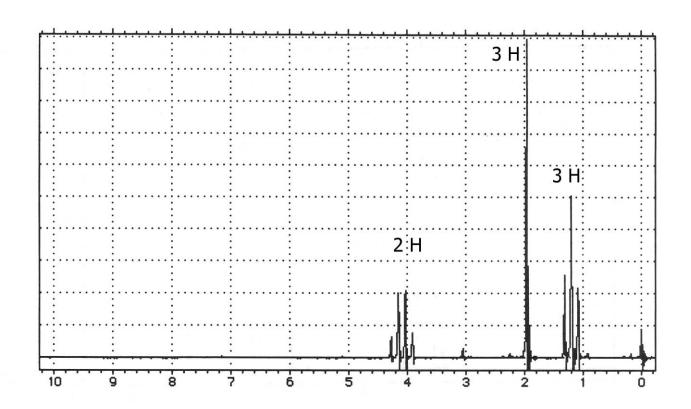
Compound 1, C₁₀H₁₄O



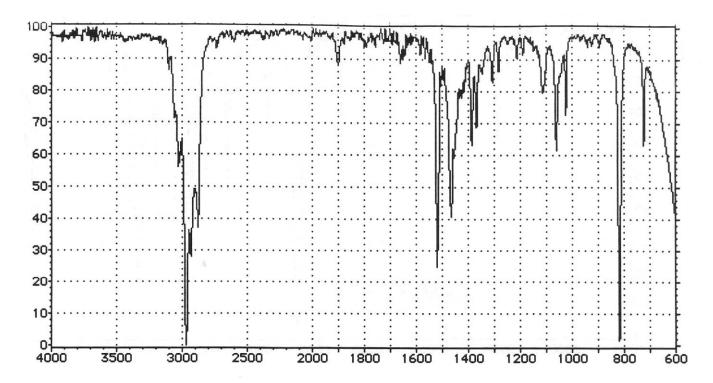


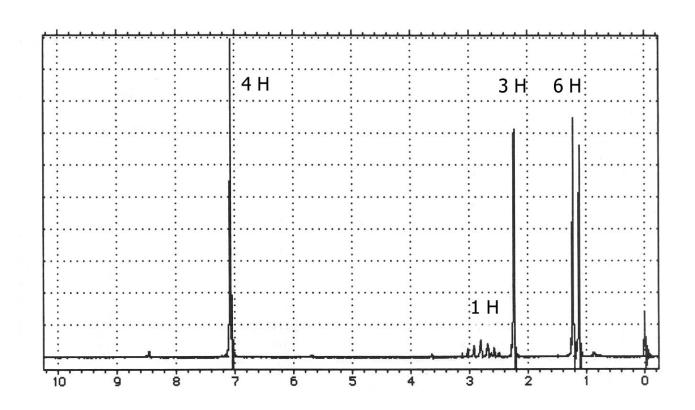
Compound 2, C₄H₈O₂



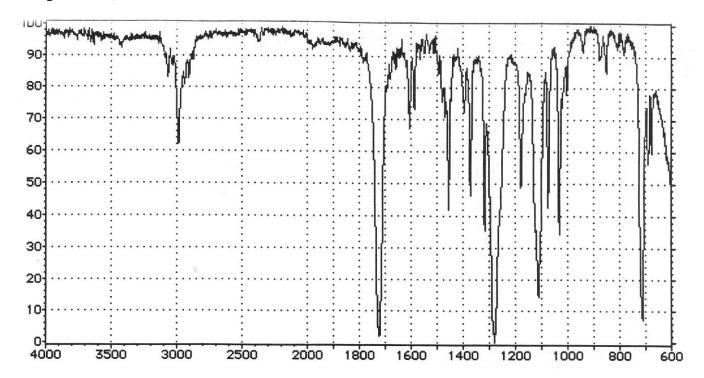


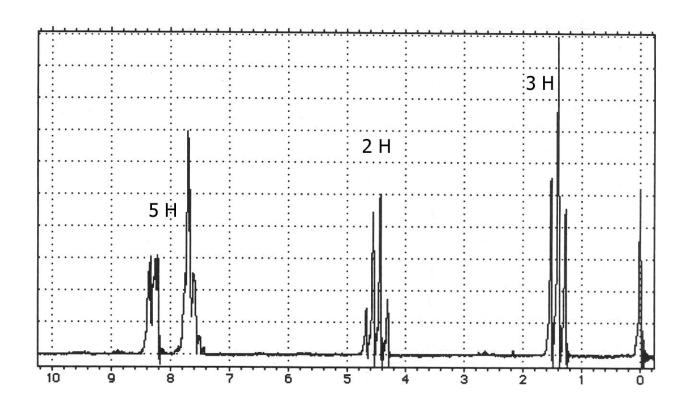
Compound 3, C₁₀H₁₄



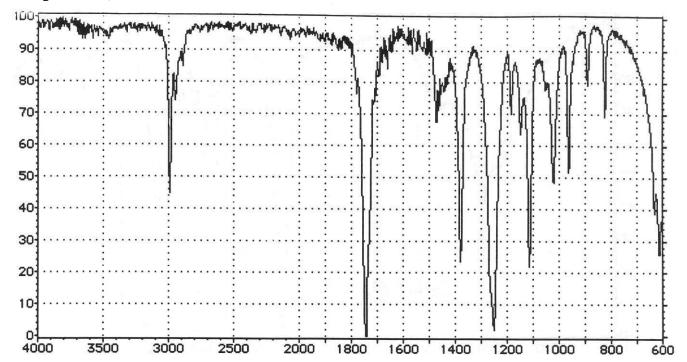


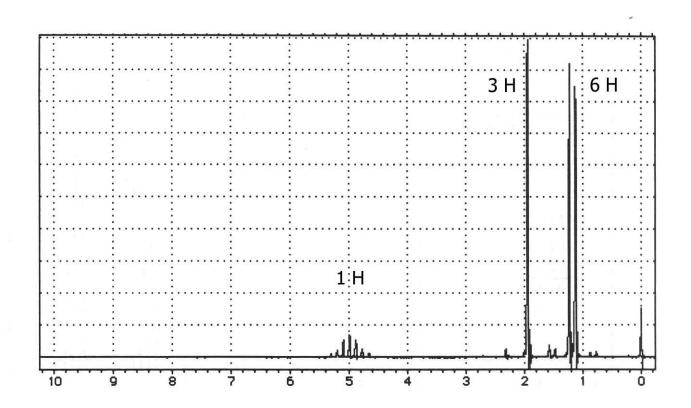
Compound 4, C₉H₁₀O₂



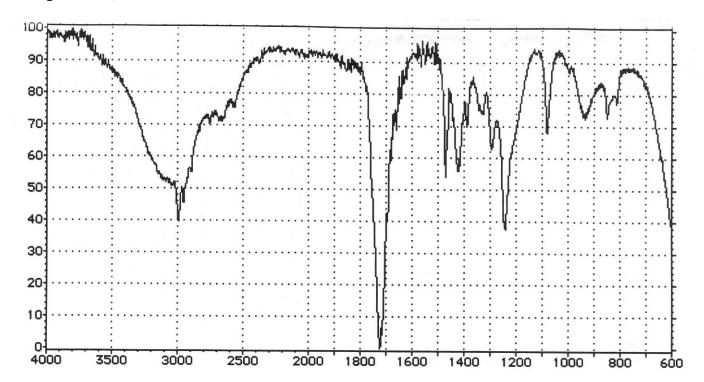


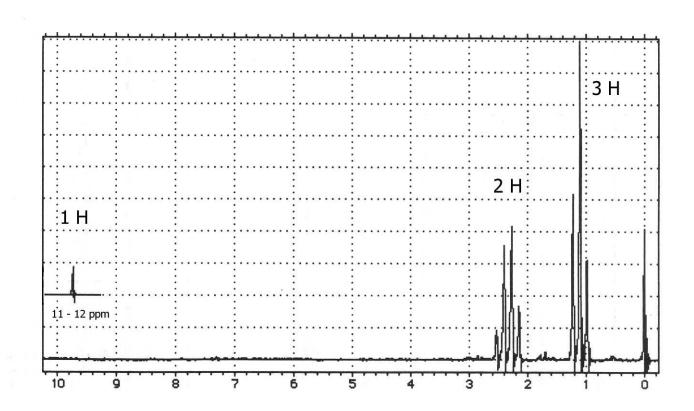
Compound 5, C₅H₁₀O₂



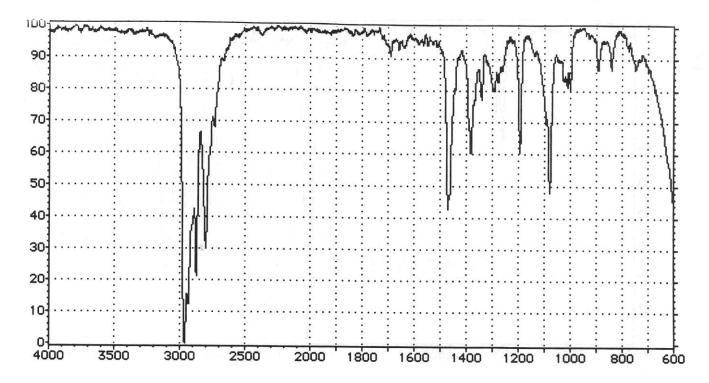


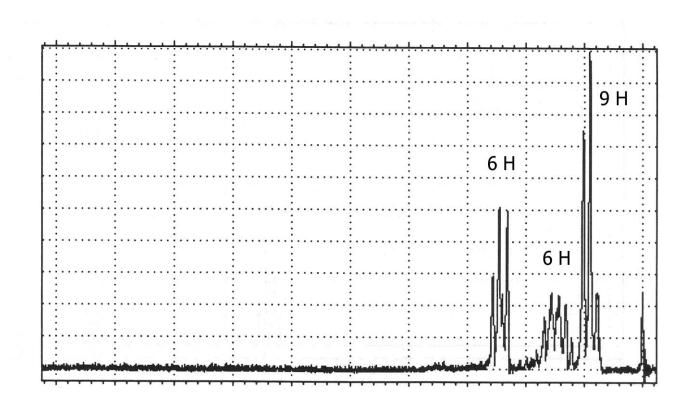
Compound 6, C₃H₆O₂





Compound 7, C₉H₂₁N





Compound 8, C₅H₇NO₂

