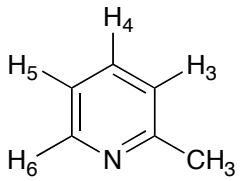
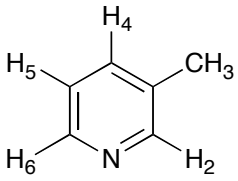
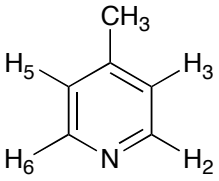
2b. 300 MHz ^{1}H NMR spectra are shown below for 2-methylpyridine, 3-methylpyridine, and 4-methylpyridine. Match each spectrum to the appropriate compound and assign the resonances of the spectrum to the appropriate protons in the compound. (13 points)



2-methylpyridine

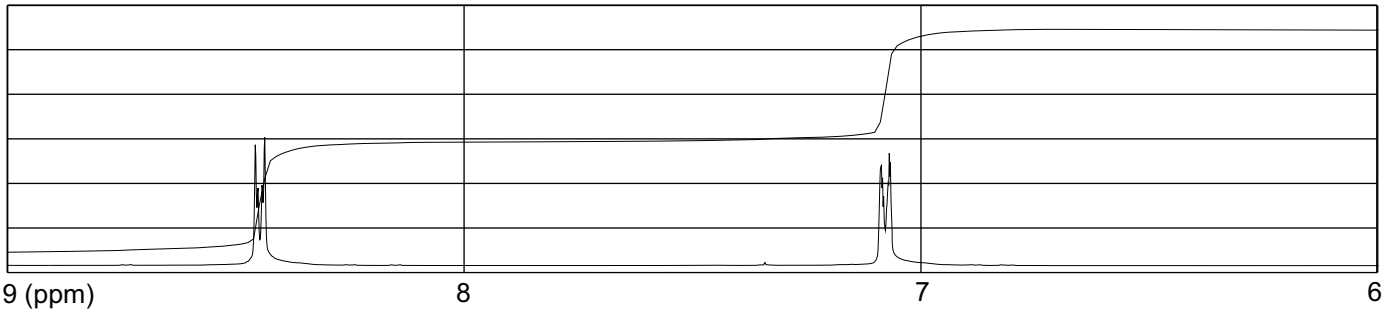


3-methylpyridine

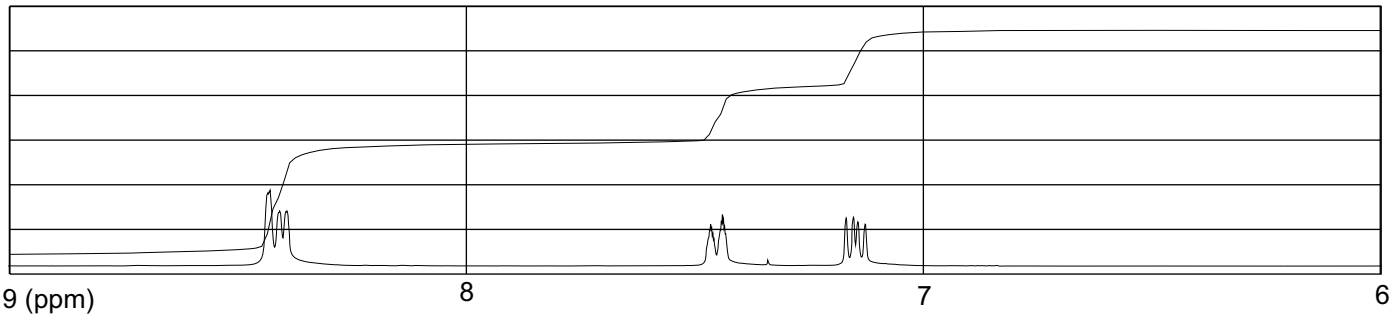


4-methylpyridine

SPECTRUM D. **Identify the compound** (here) _____ and **label the peaks** (below) with the corresponding proton (with labels selected among H_2, H_3, H_4, H_5, and H_6 as appropriate).



SPECTRUM E. **Identify the compound** (here) _____ and **label the peaks** (below) with the corresponding proton (with labels selected among H_2, H_3, H_4, H_5, and H_6 as appropriate).



SPECTRUM F. **Identify the compound** (here) _____ and **label the peaks** (below) with the corresponding proton (with labels selected among H_2, H_3, H_4, H_5, and H_6 as appropriate).