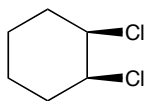


Recitation Week 14

4/24/13

1. For each compound predict: (1) How many signals would you expect to observe in the ^1H NMR spectrum. (2) The relative integrations of each signal (if there is more than one). (3) The multiplicity of each signal (singlet, doublet, triplet etc...).

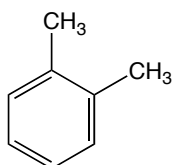
(a)



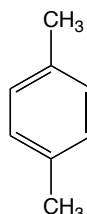
(# of signals only)

(b) $\text{CH}_3\text{OCH}_2\text{CH}_3$

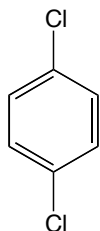
(c)



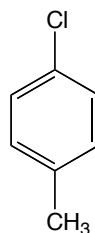
(d)



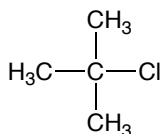
(e)



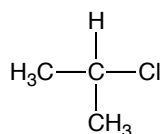
(f)



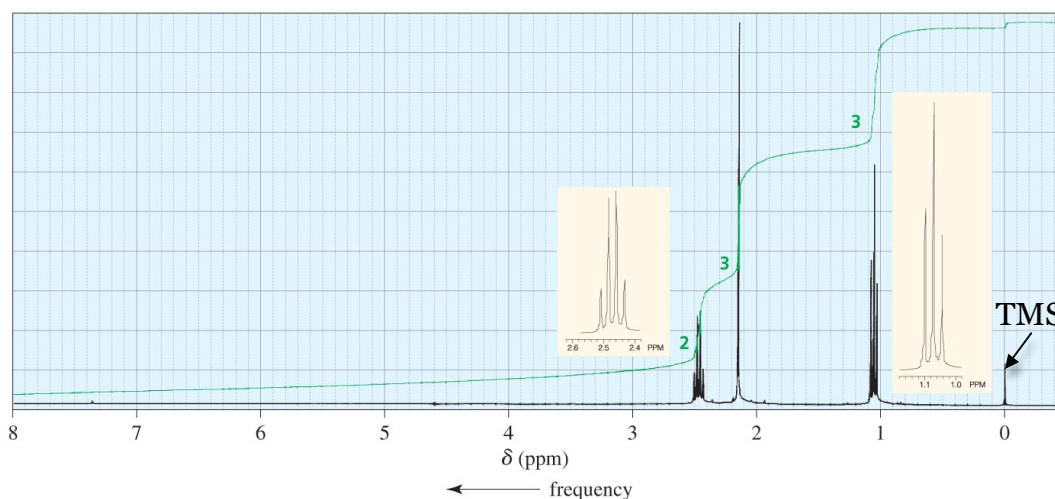
(g)



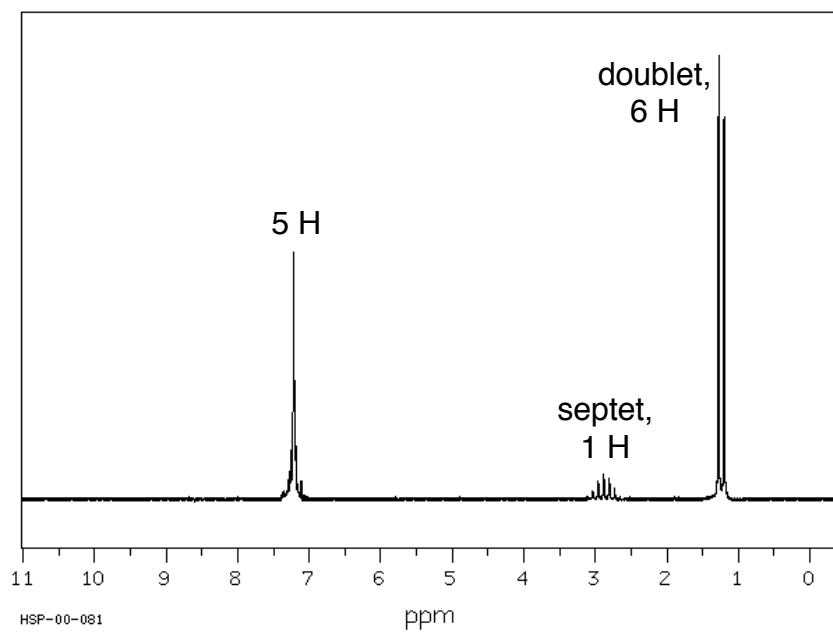
(h)



3. Propose structures for the compounds with the following ^1H NMR spectra and molecular formulas.

(a) $\text{C}_4\text{H}_8\text{O}$ 

(b) C_9H_{12}



(c) $C_5H_{12}O$

