

Session 16 Worksheet

NMR:

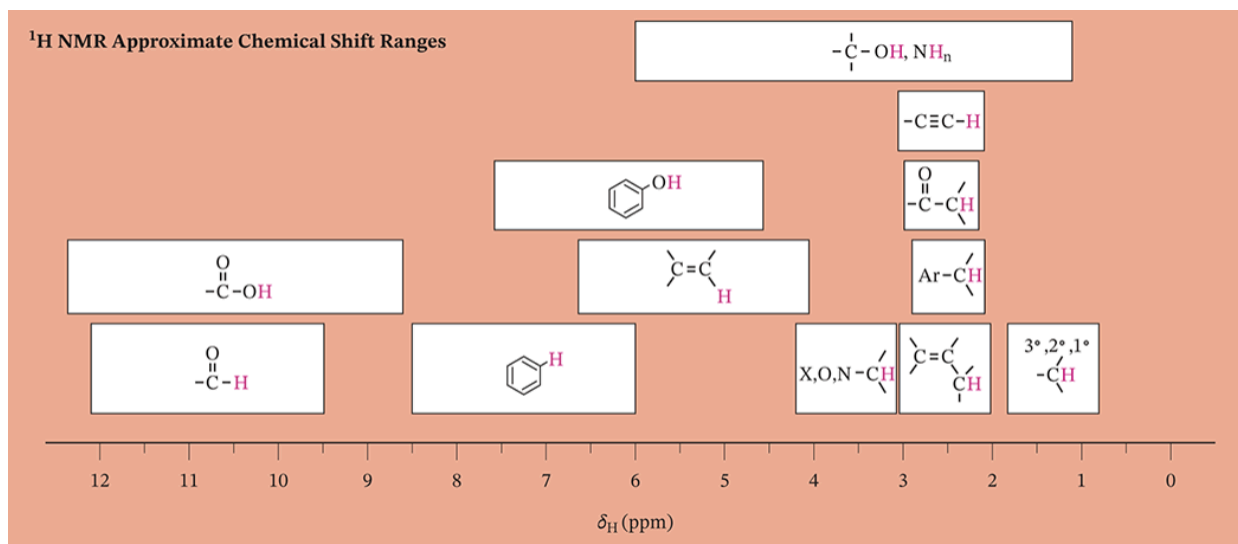
HNMR:

C¹³NMR:

Hydrogen Environments:

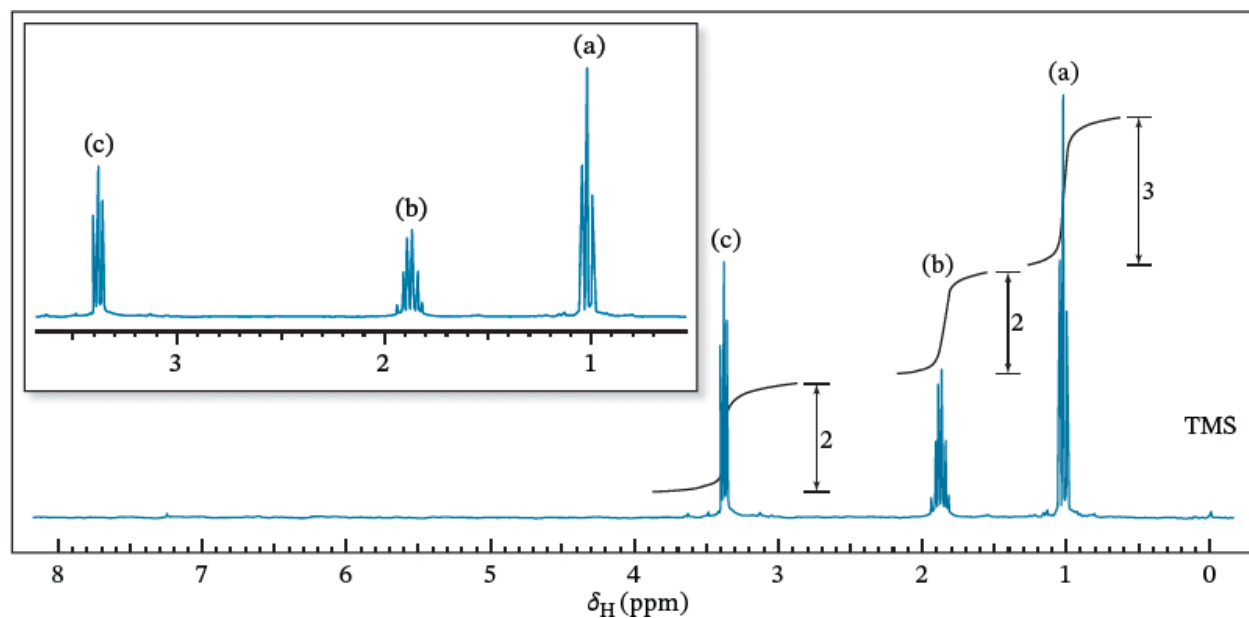
Integration:

Electronegativity affects HNMR by shifting the signals _____



Guess what? You should *probably* make flashcards of these signals and memorize them

Example of HNMR

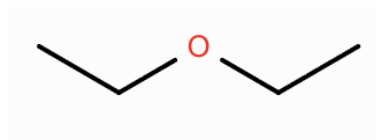


Practice time :)

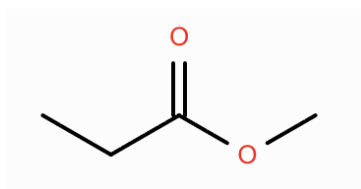
In the compounds below:

1. Identify the hydrogen environments
2. Give the name of the signal they will produce (singlet, doublet, triplet, etc...)
3. Determine their integration

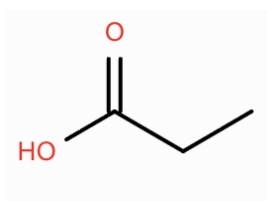
A.



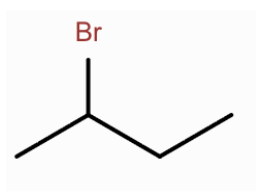
B.



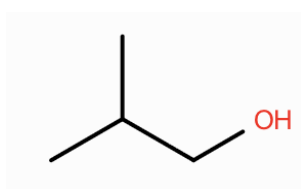
C.



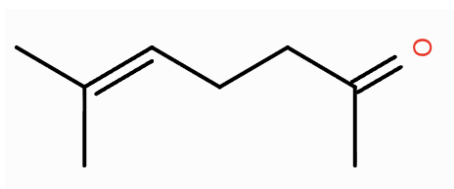
D.



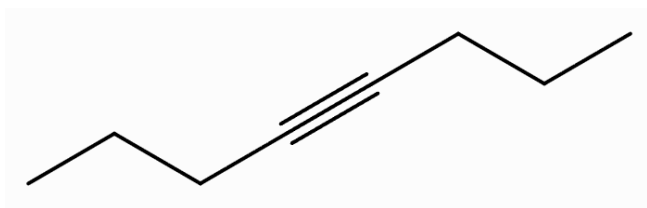
E.



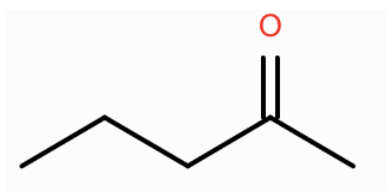
F.



G.



H.



4. Using what we know from these structures, match the NMR spectra to the structures from the previous example

