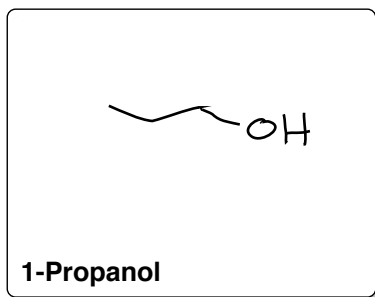
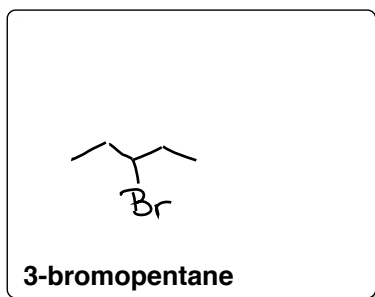


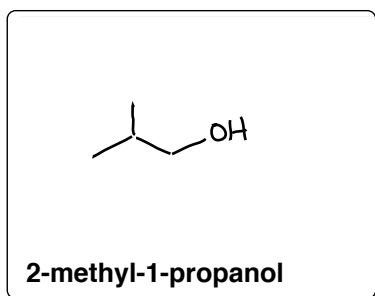
Potential Structures: Draw each structure, determine the number of unique carbons and protons, determine the splitting pattern for each set of protons (singlet, doublet, etc), and determine the key IR resonance and its location. Then match each structure to the ^{13}C and ^1H NMR.



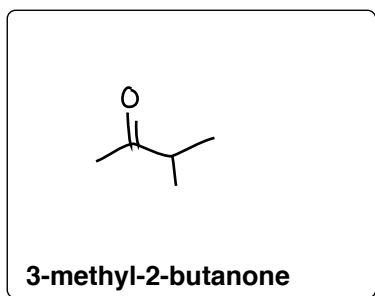
unique number of carbons: 3
unique number of protons: 4
major IR resonance and location: OH (3400 cm^{-1})



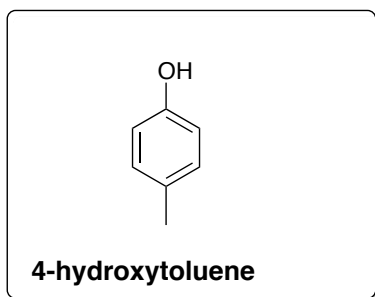
unique number of carbons: 3
unique number of protons: 3
major IR resonance and location: C-Br (finger print)



unique number of carbons: 3
unique number of protons: 4
major IR resonance and location: OH (3400 cm^{-1})



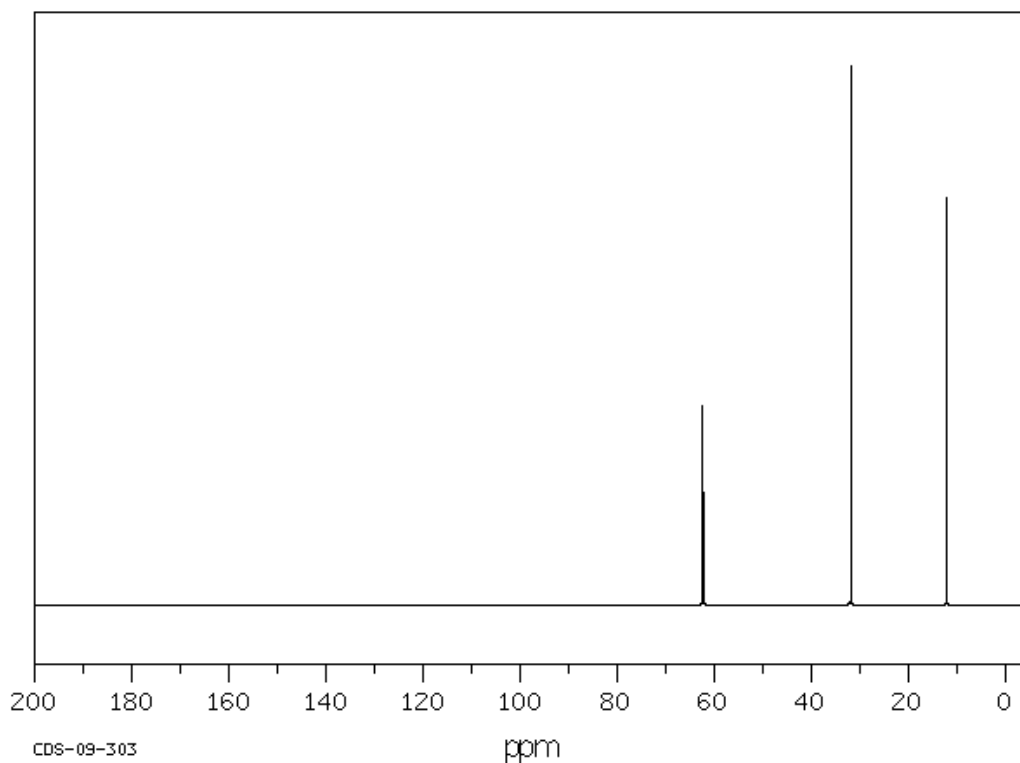
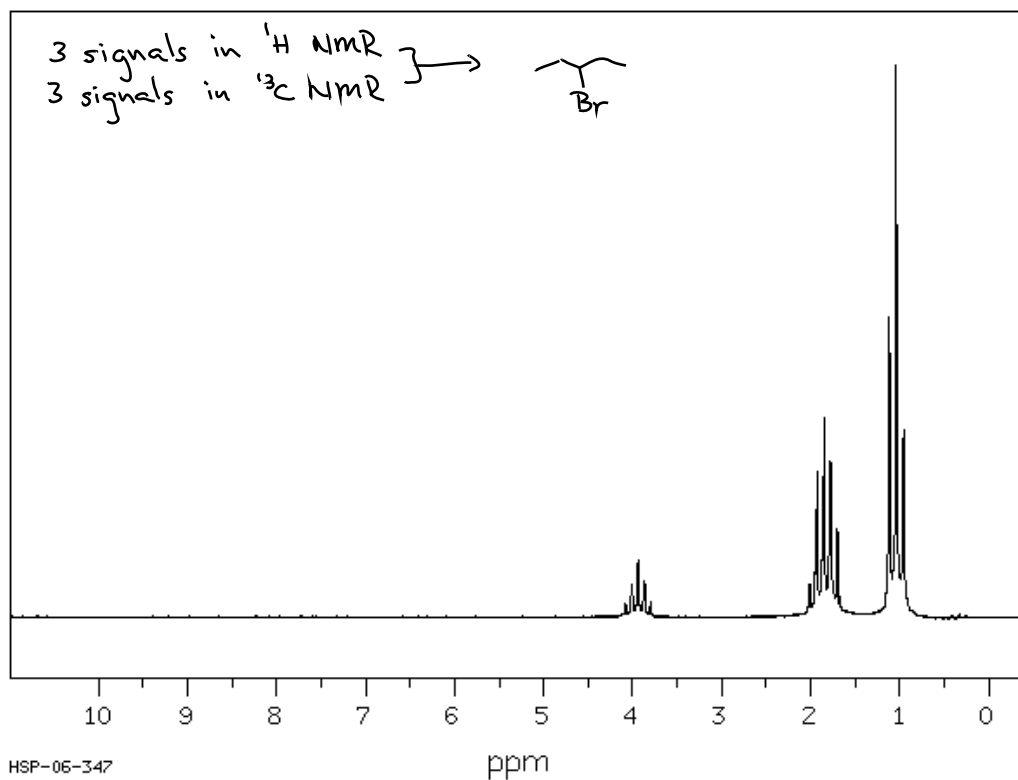
unique number of carbons: 4
unique number of protons: 3
major IR resonance and location: C=O (1700 cm^{-1})



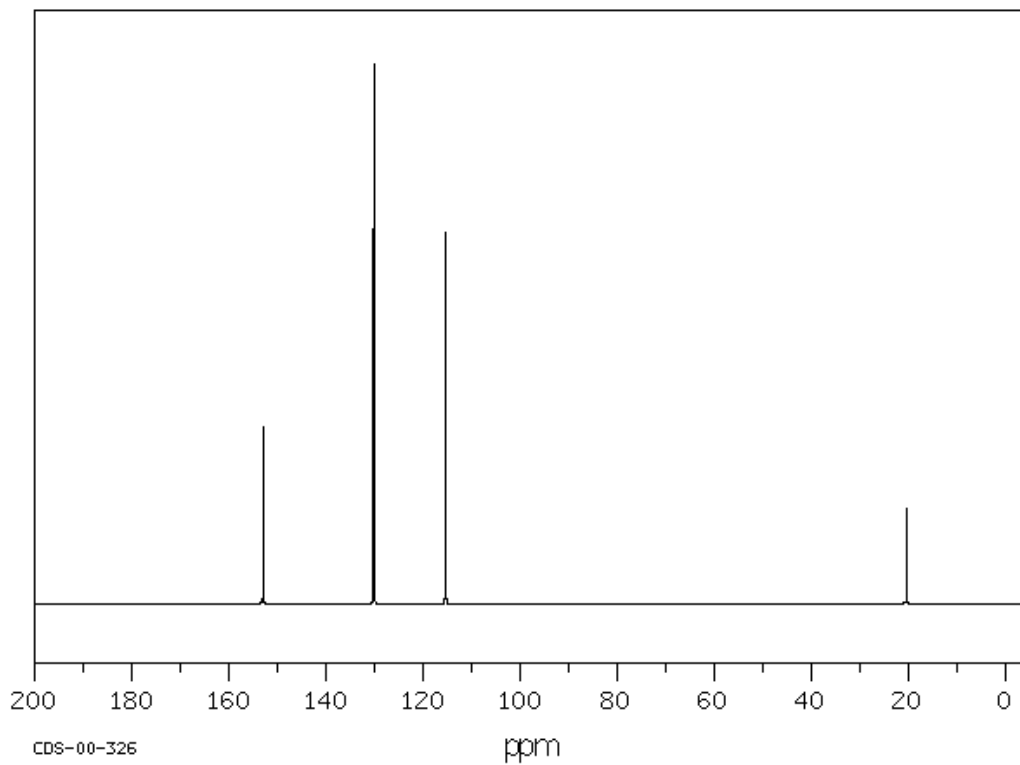
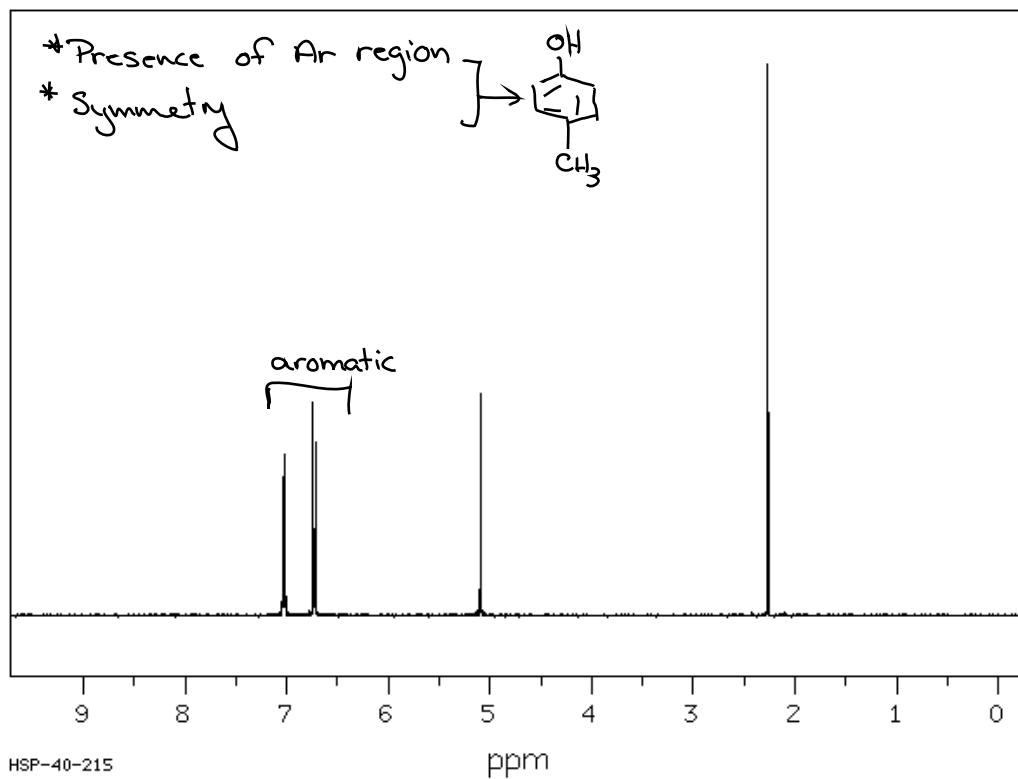
unique number of carbons: 5
unique number of protons: 4
major IR resonance and location: OH (3400 cm^{-1})

Identify each structure and label the ^1H NMR and ^{13}C NMR.

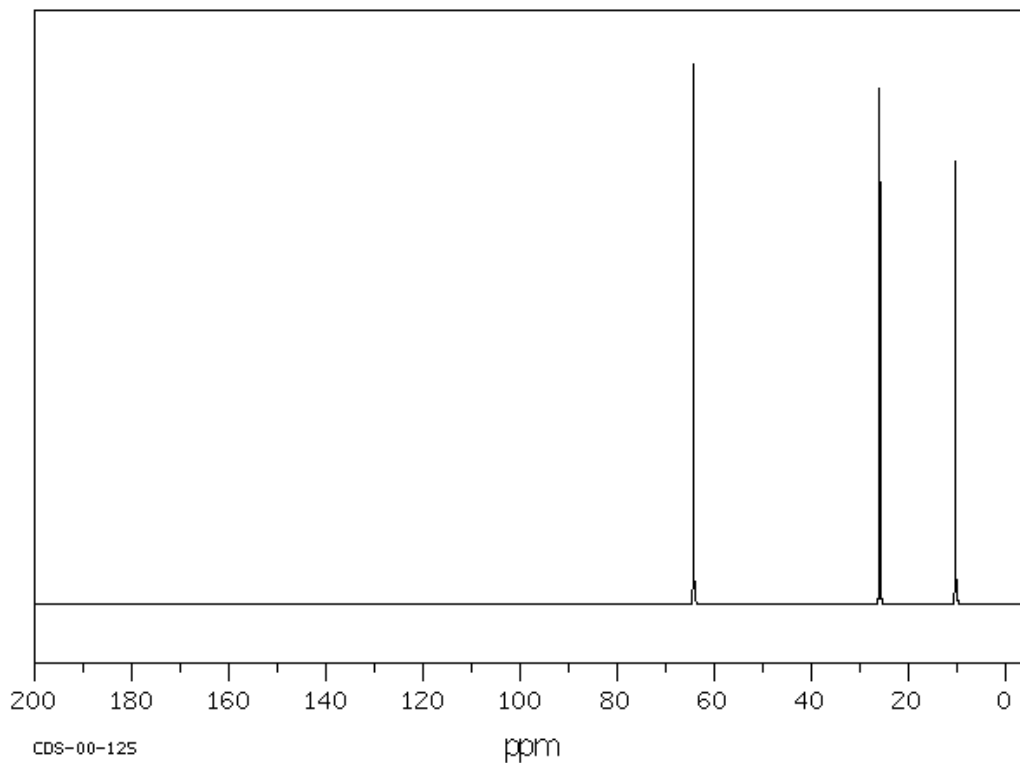
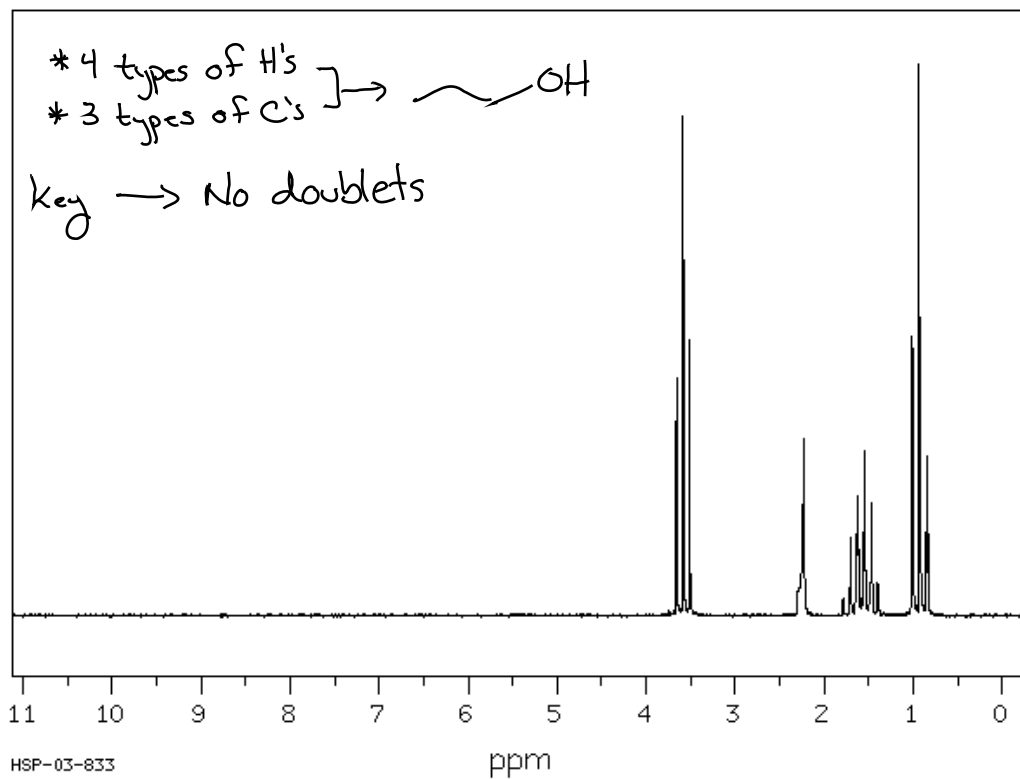
Structure: _____



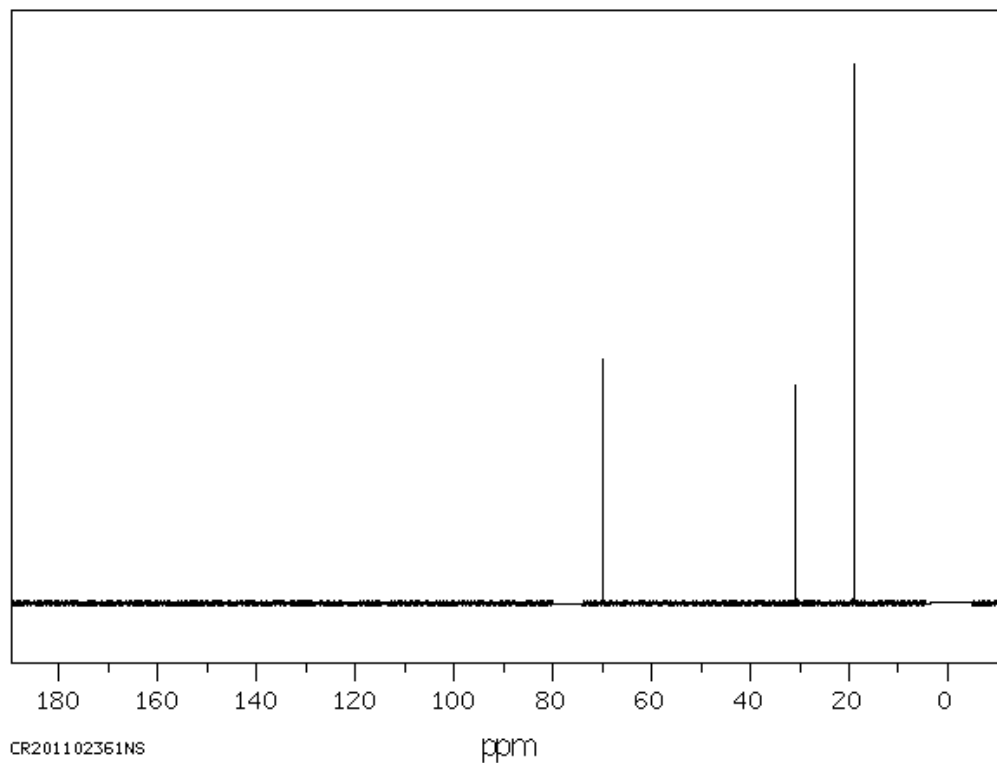
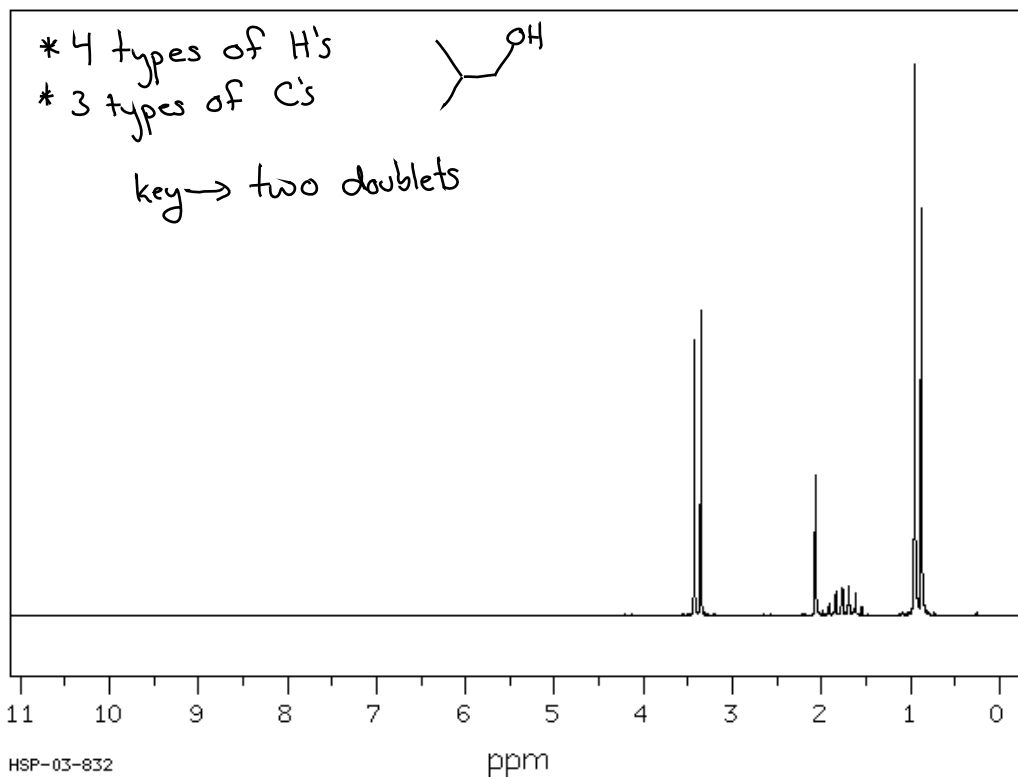
Structure: _____



Structure: _____



Structure: _____



Structure: _____

