
Opportunity #2 Part V
NMR Problem Solving

Name:

List any partners who worked with you:

Instructions

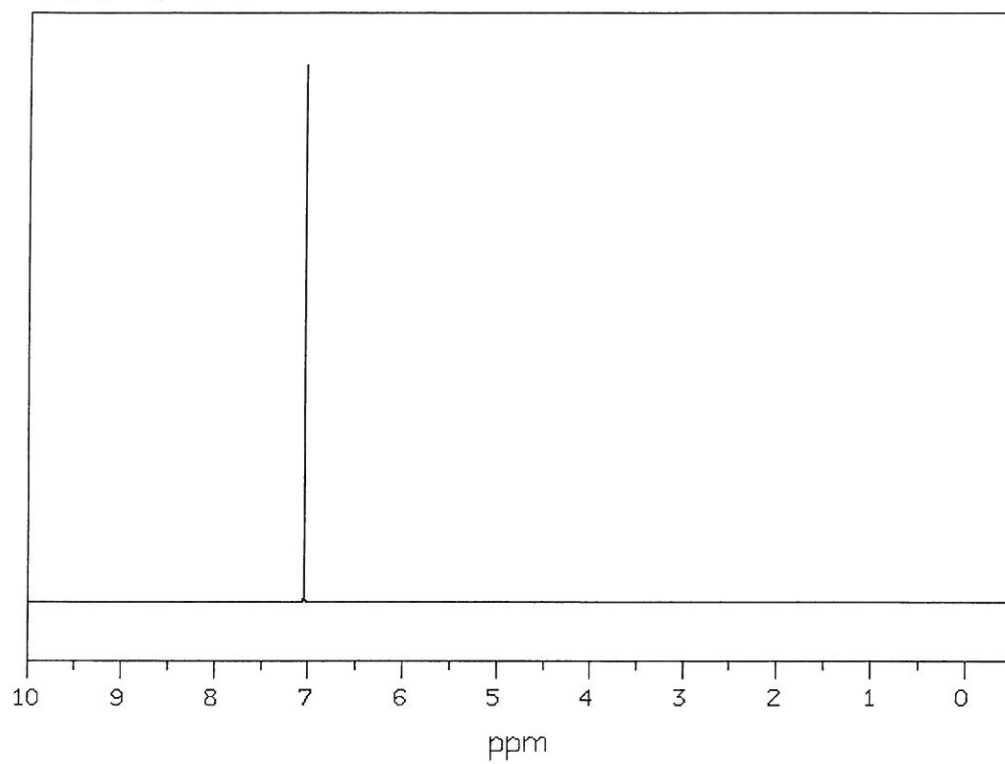
For each of the spectra draw the structure that would be responsible for the spectrum. To make interpretation a little easier, I have included the splitting type and number of hydrogens for each set of signals in the spectrum, from left to right. In other words,

C_4H_8O ; quartet (2H), triplet (3H), singlet (3H)

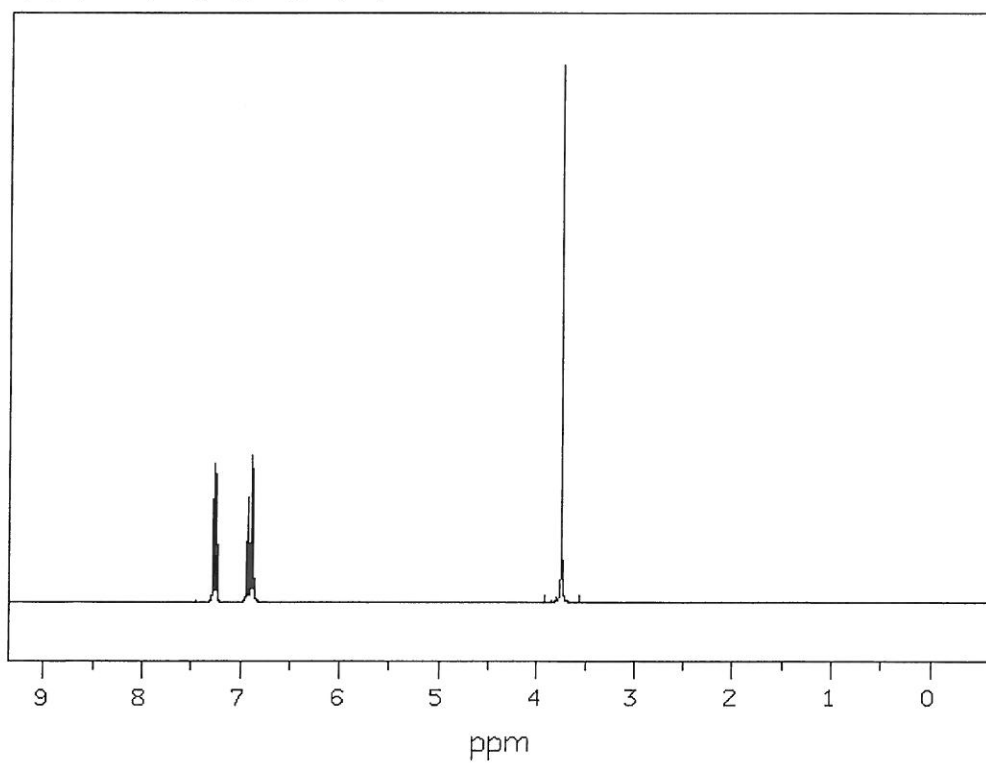
means, that the three sets of peaks, starting from the left are a quartet due to two hydrogens, a triplet due to three hydrogens and a singlet due to three hydrogens.

1.	2.
3.	4.
5.	6.

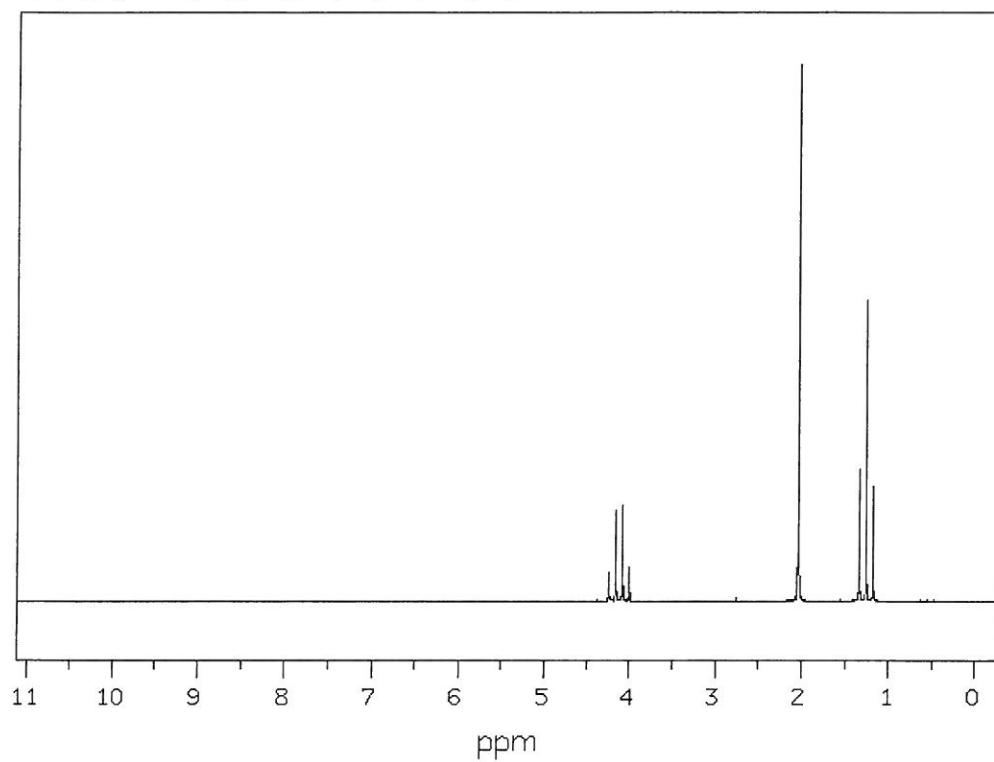
1. $C_4H_2O_3$; singlet (2H)



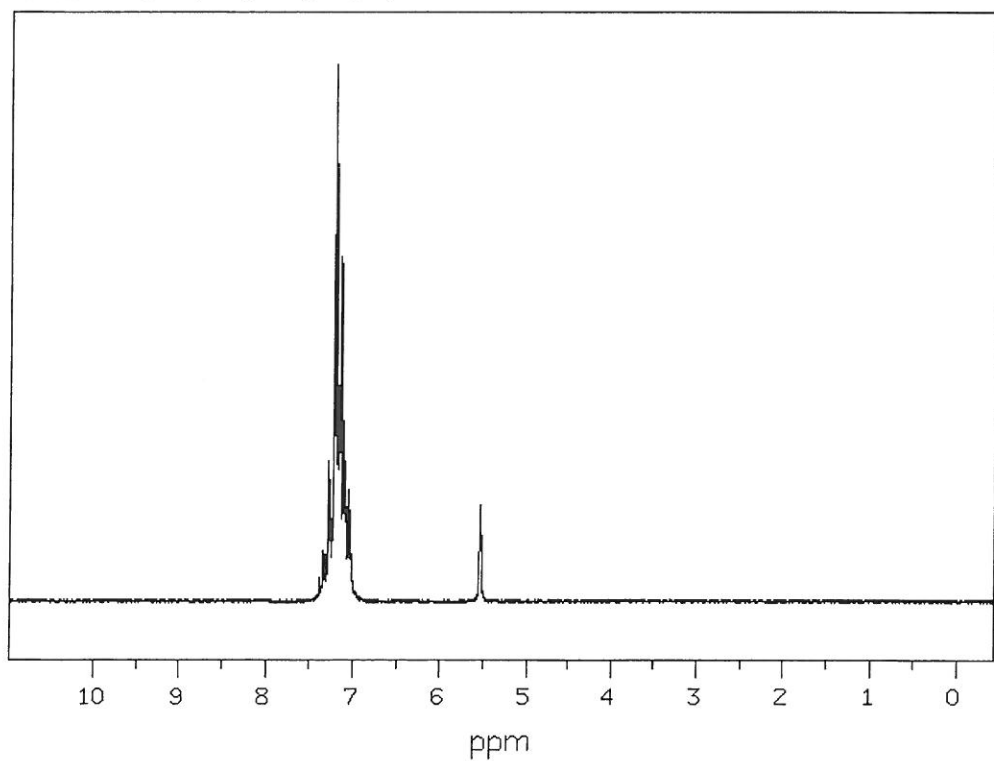
2. C_7H_8O ; multiplet (5H), singlet (3H)



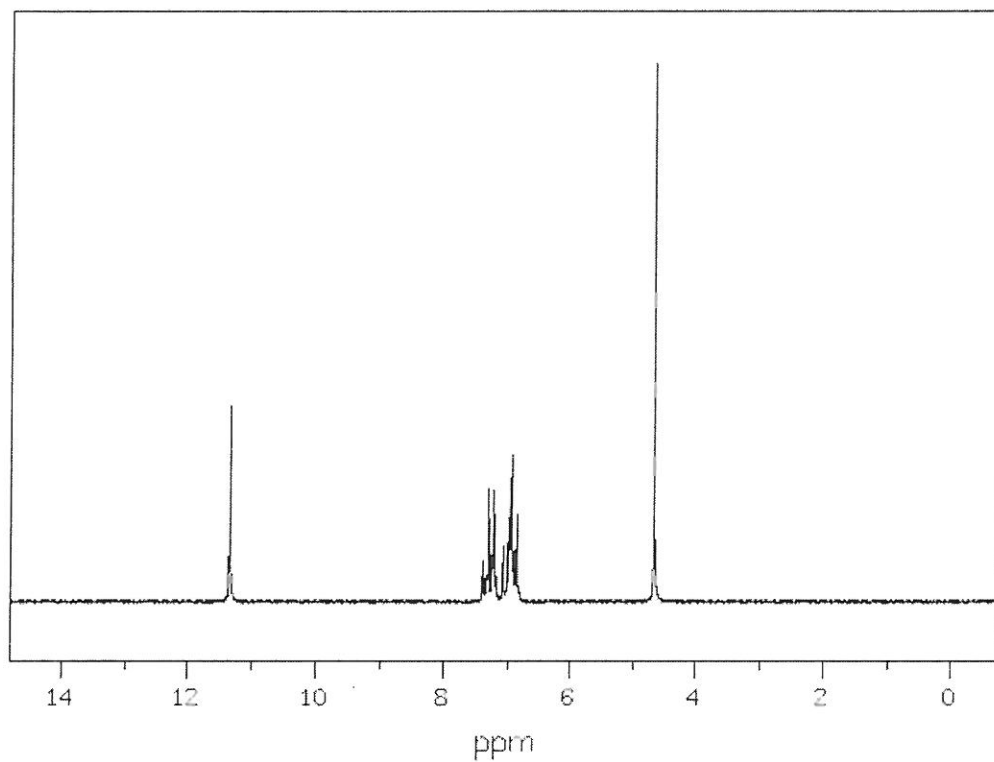
3. $C_4H_8O_2$; quartet (2H), singlet (3H), triplet (3H)



4. $C_{19}H_{16}$; multiplet (15H), singlet (1H)



5. $C_8H_8O_3$; singlet (1H), multiplet (5H), singlet (2H)



6. C_4H_7NO ; triplet (2H), singlet (3H), triplet (2H)

