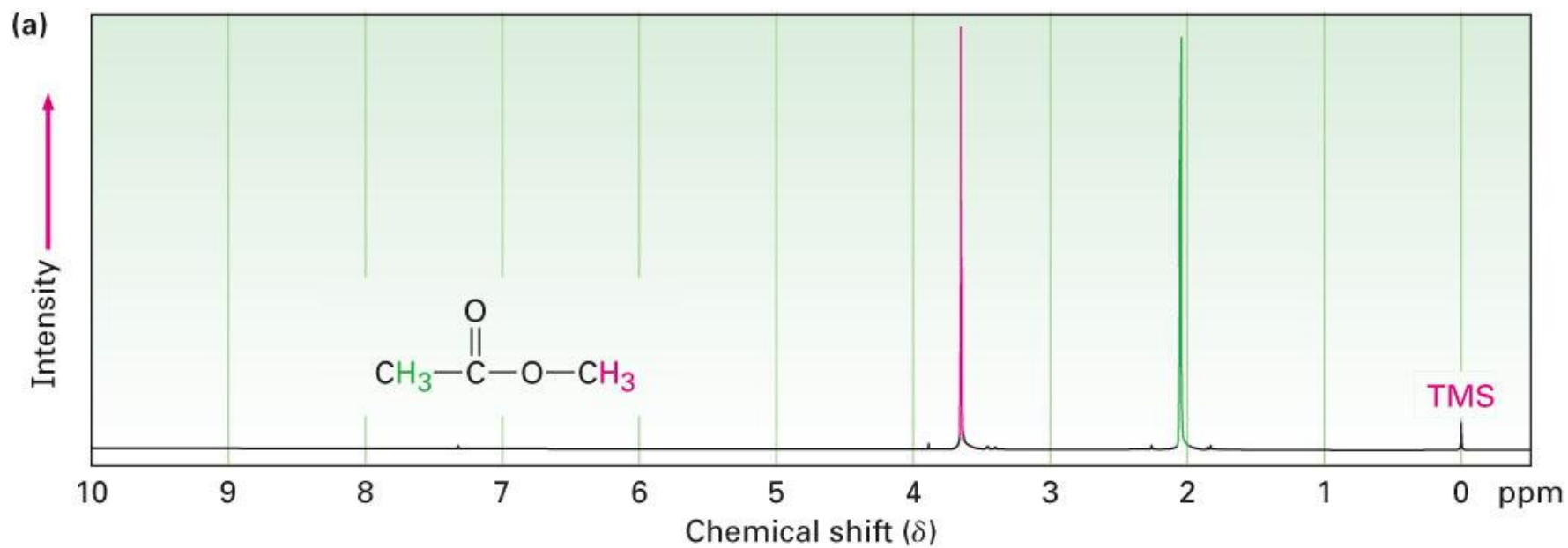
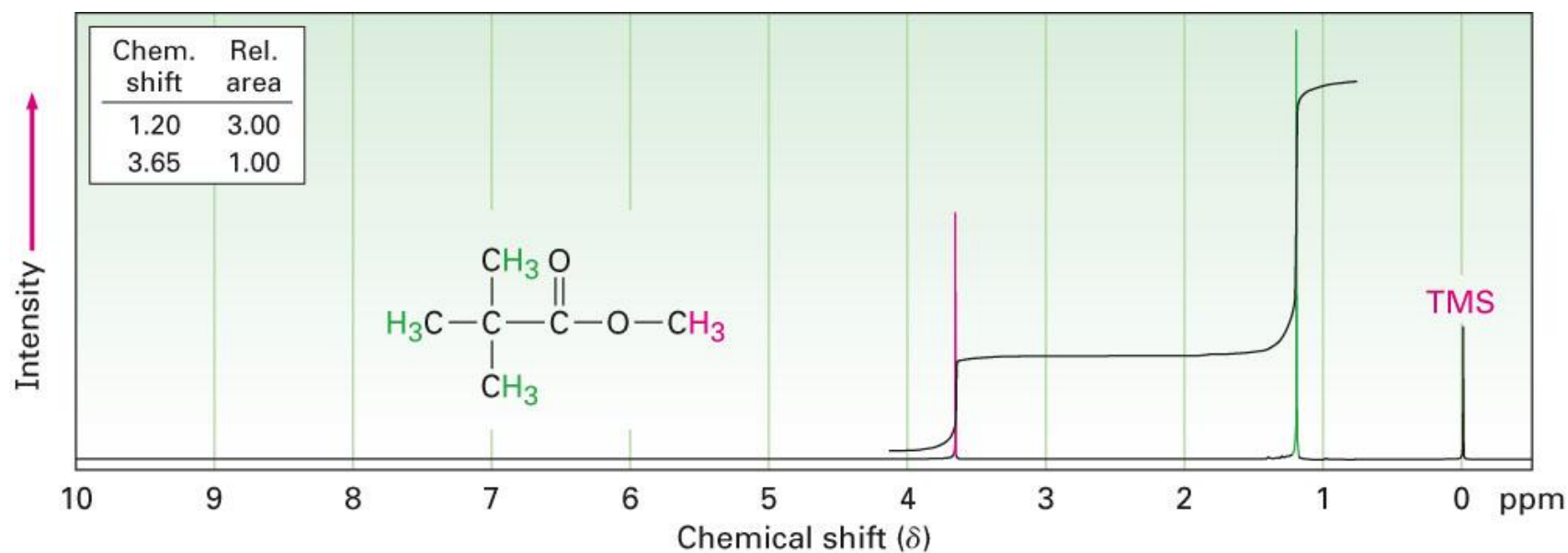


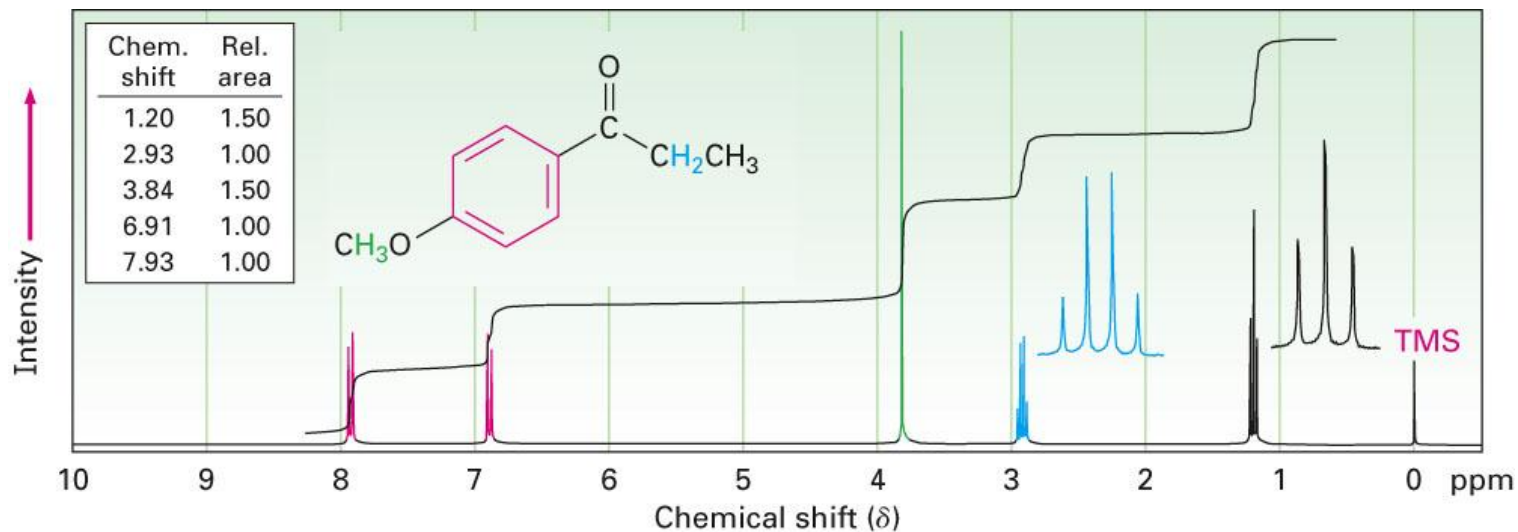
The structure and spectra are given to you; rationalize the spectra



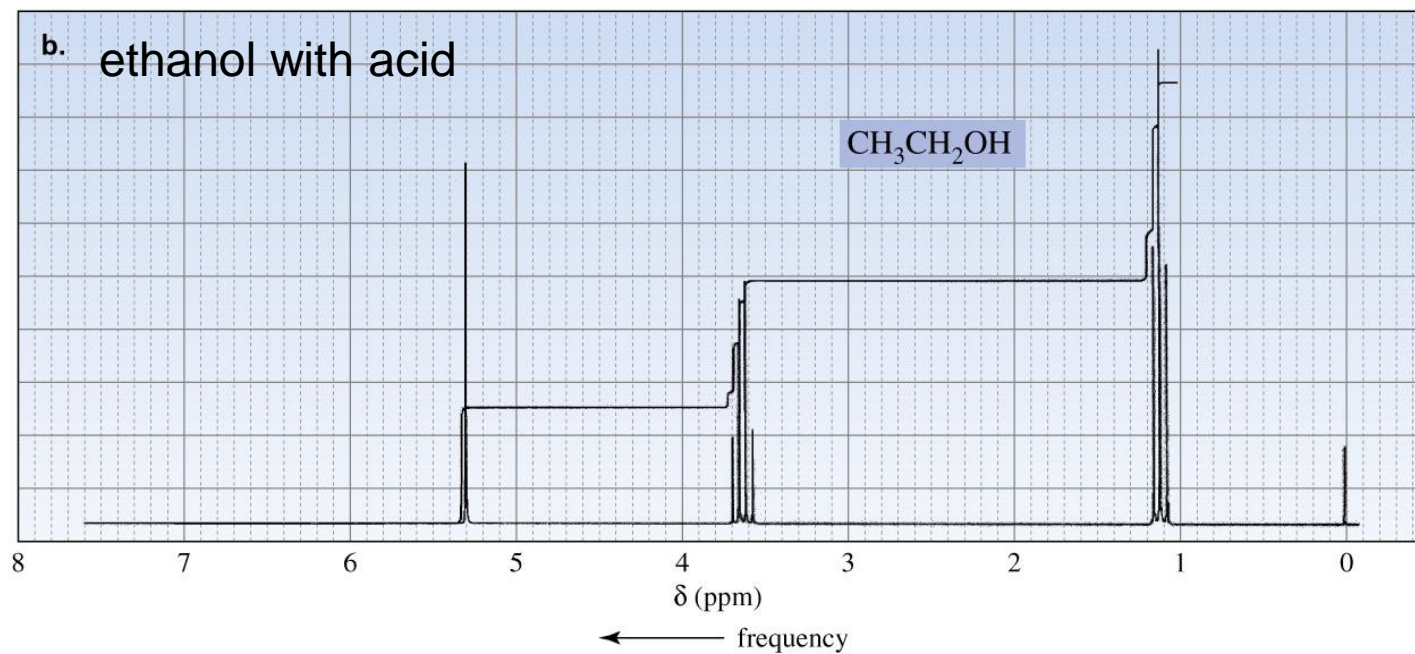
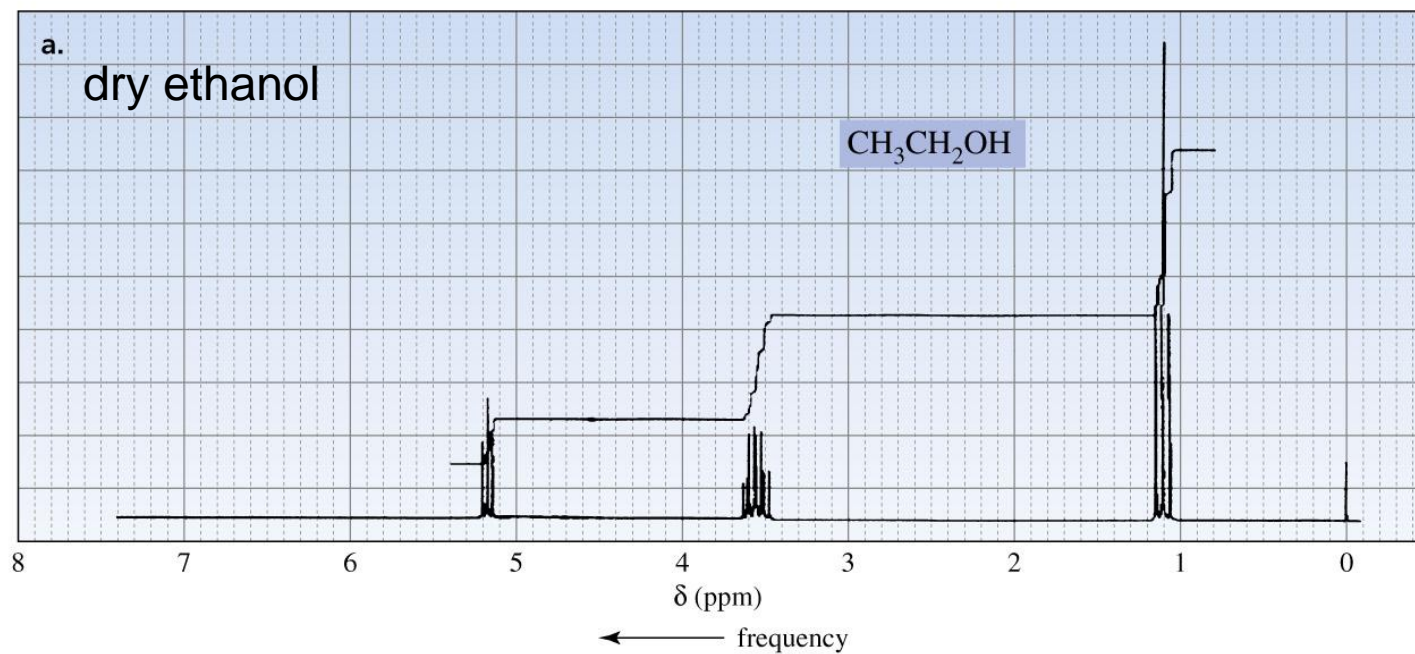
The structure and spectra are given to you; rationalize the spectra



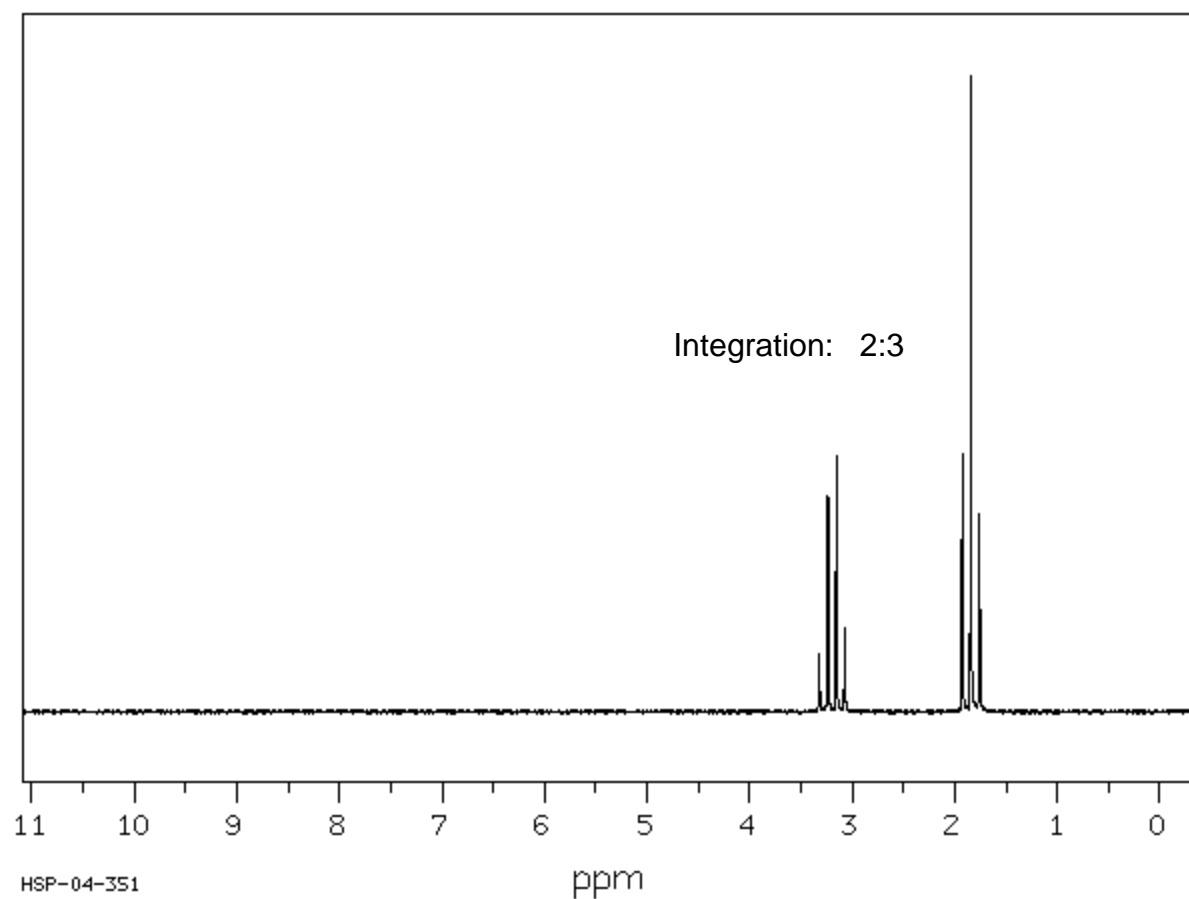
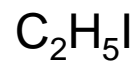
The structure and spectra are given to you; rationalize the spectra

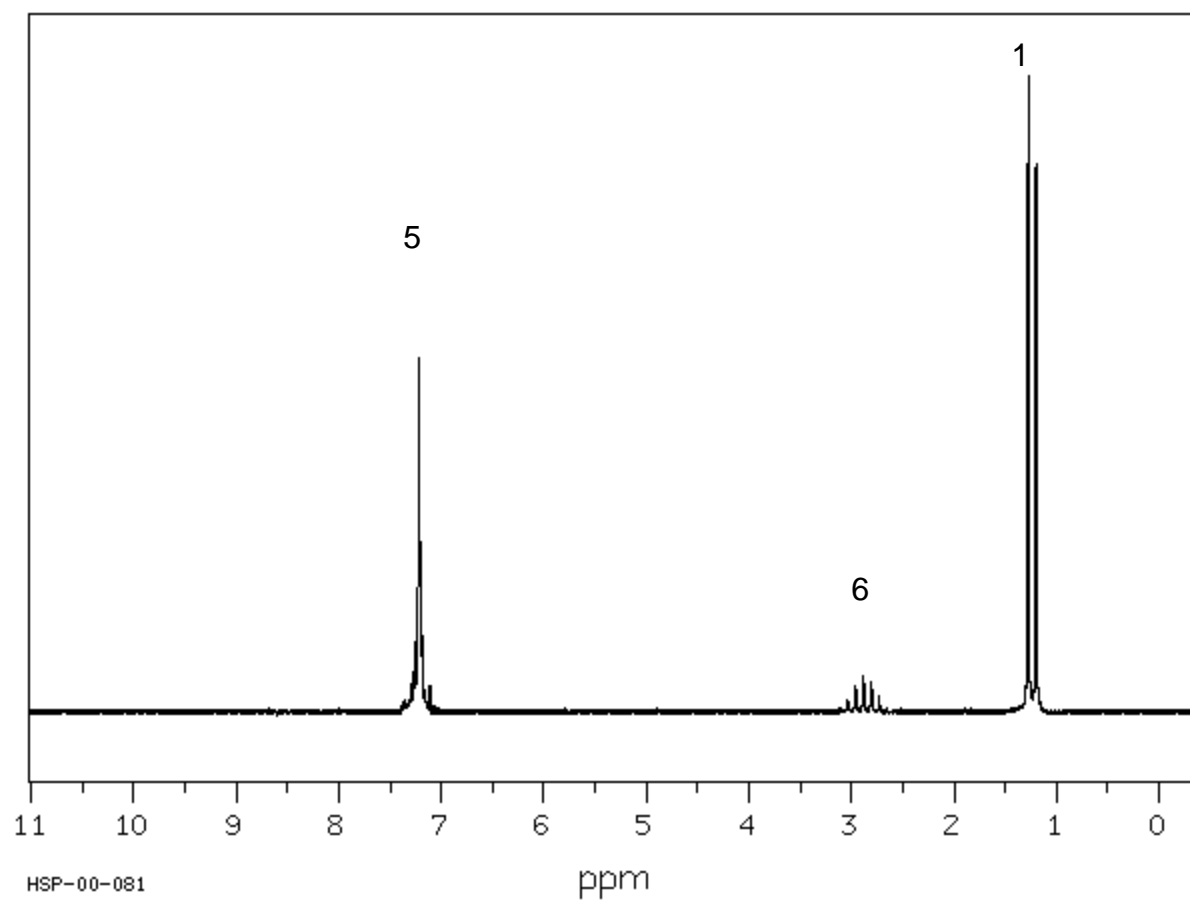
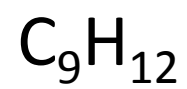


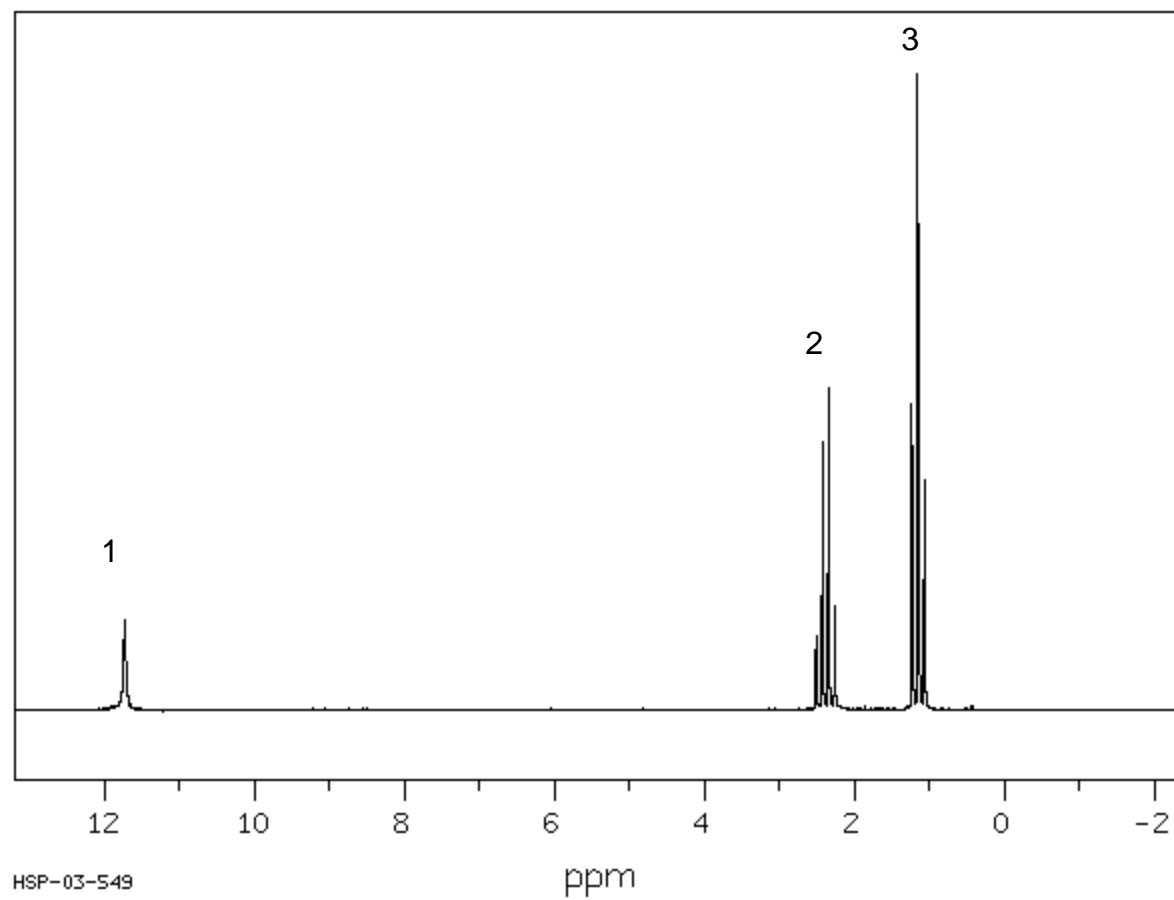
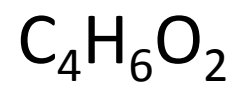
Rationalize the two spectra of ethanol shown below:

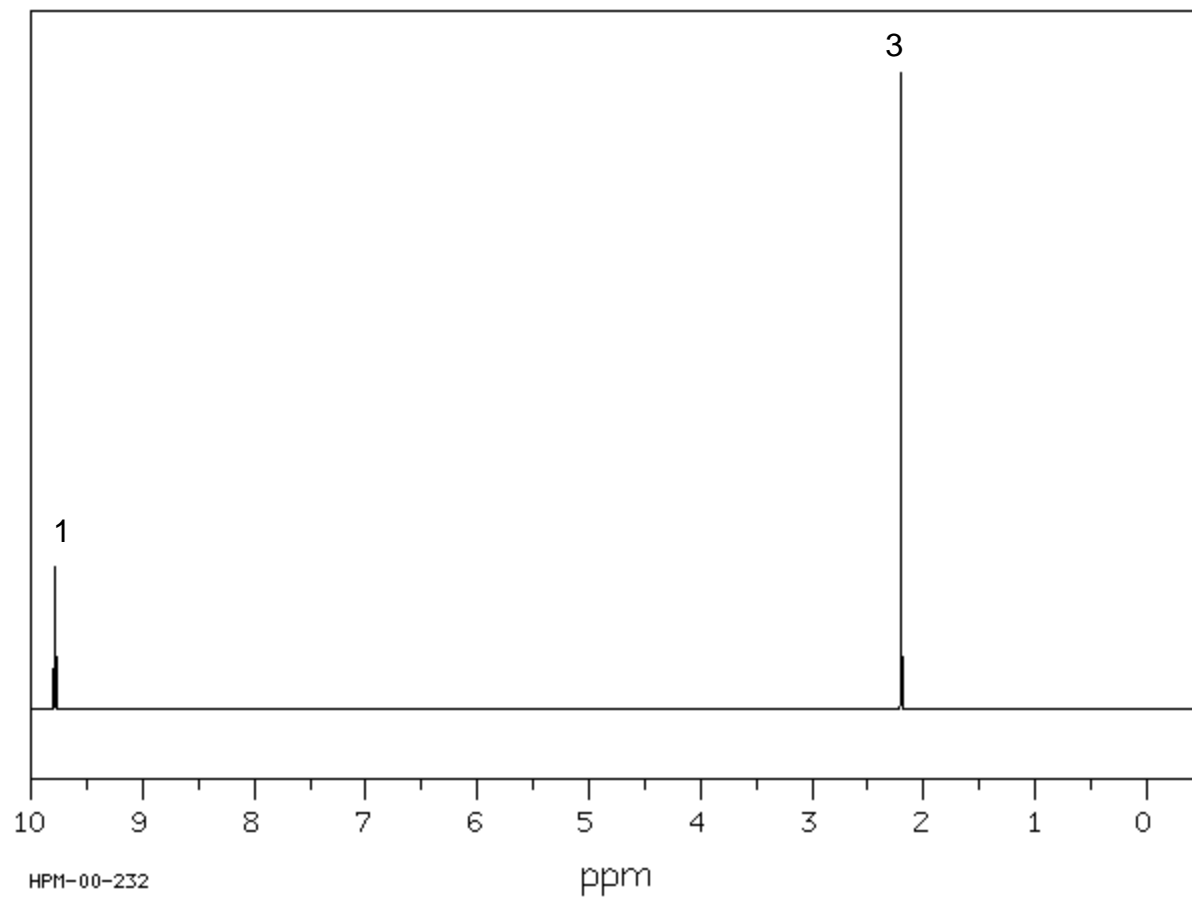
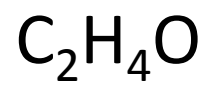


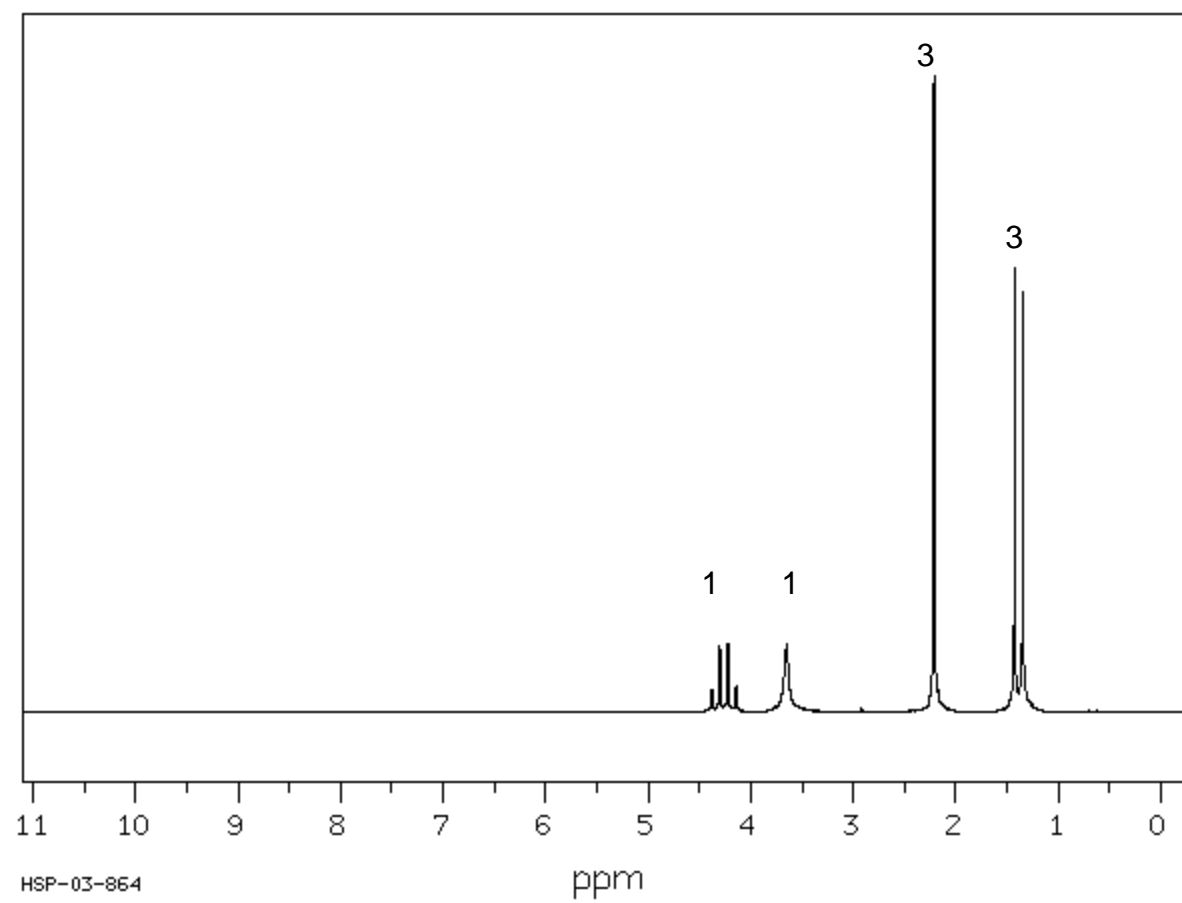
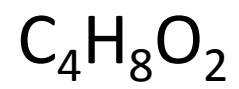
In the following slides, spectra and molecular formula are given to you.
Deduce the structure of the molecule.

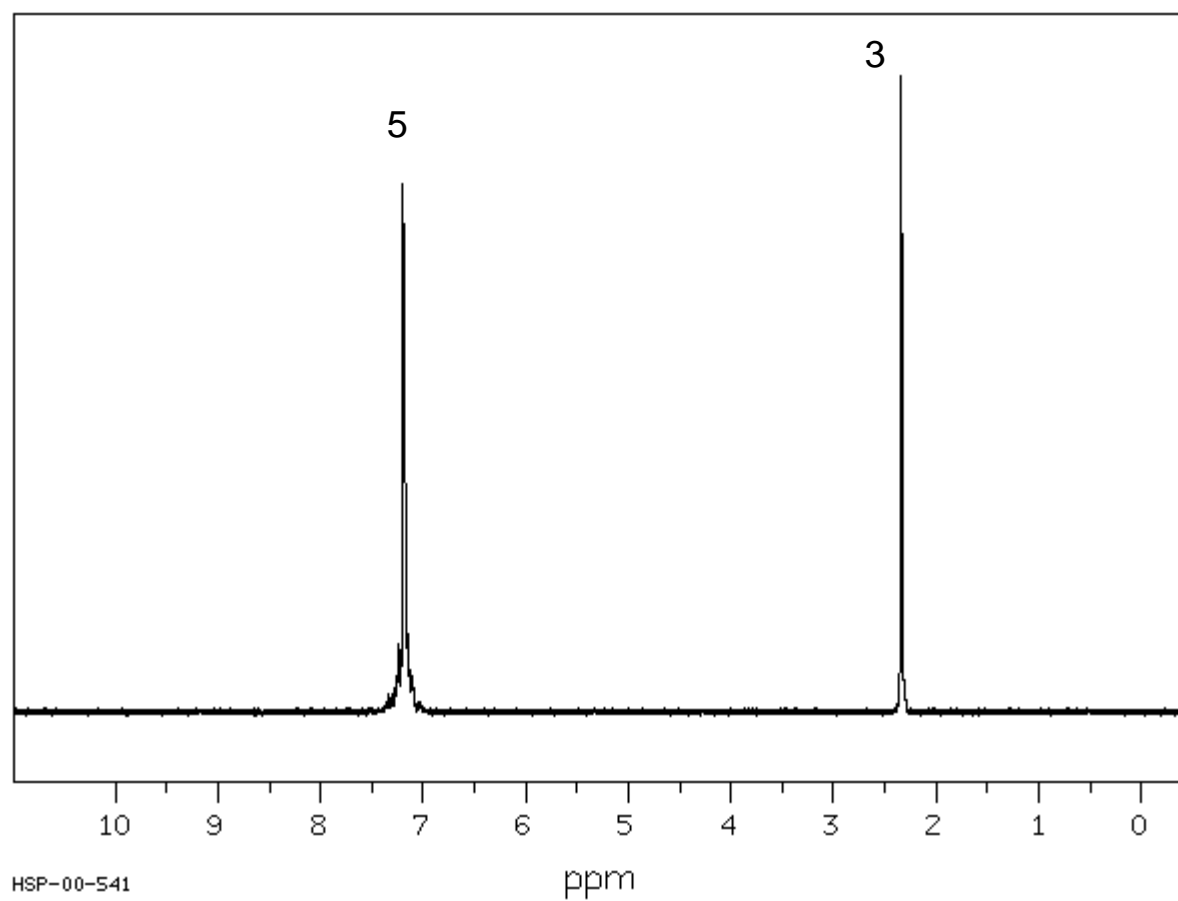
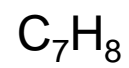






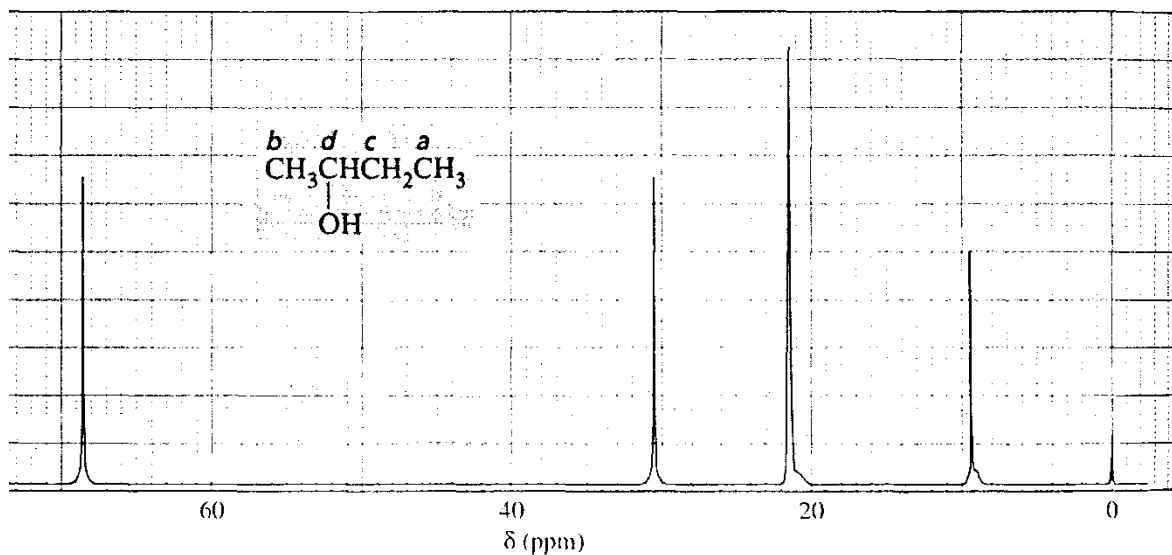




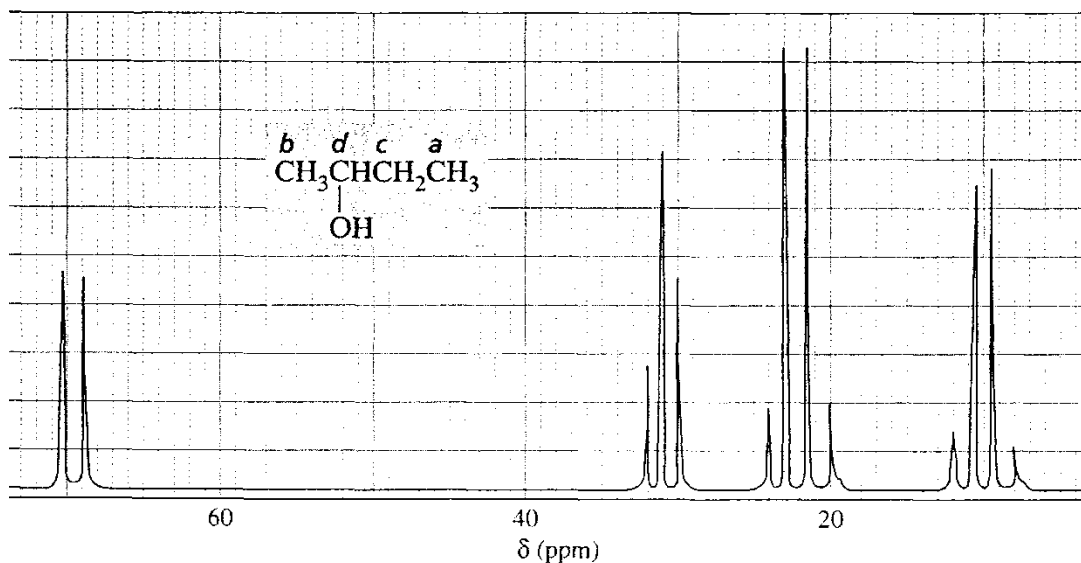


Rationalise the two ^{13}C spectra shown below:

^1H Decoupled and Coupled ^{13}C Spectra of 2-butanol

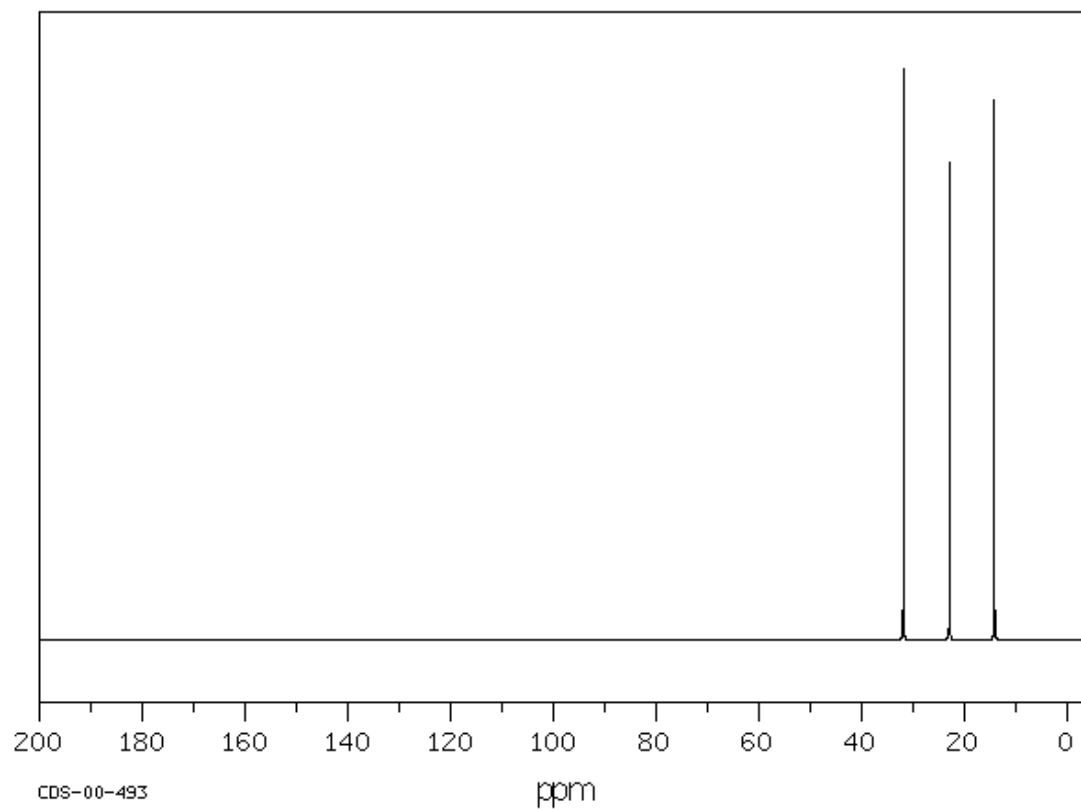
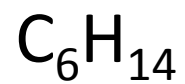


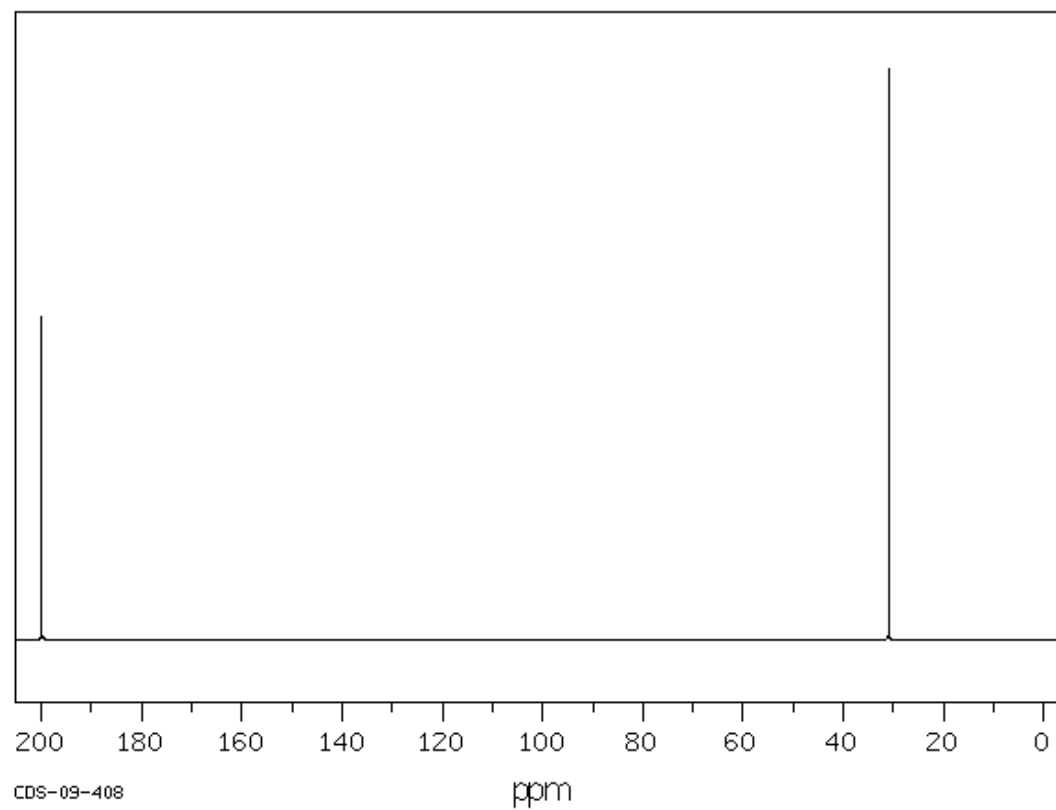
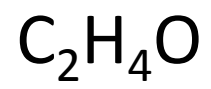
decoupled

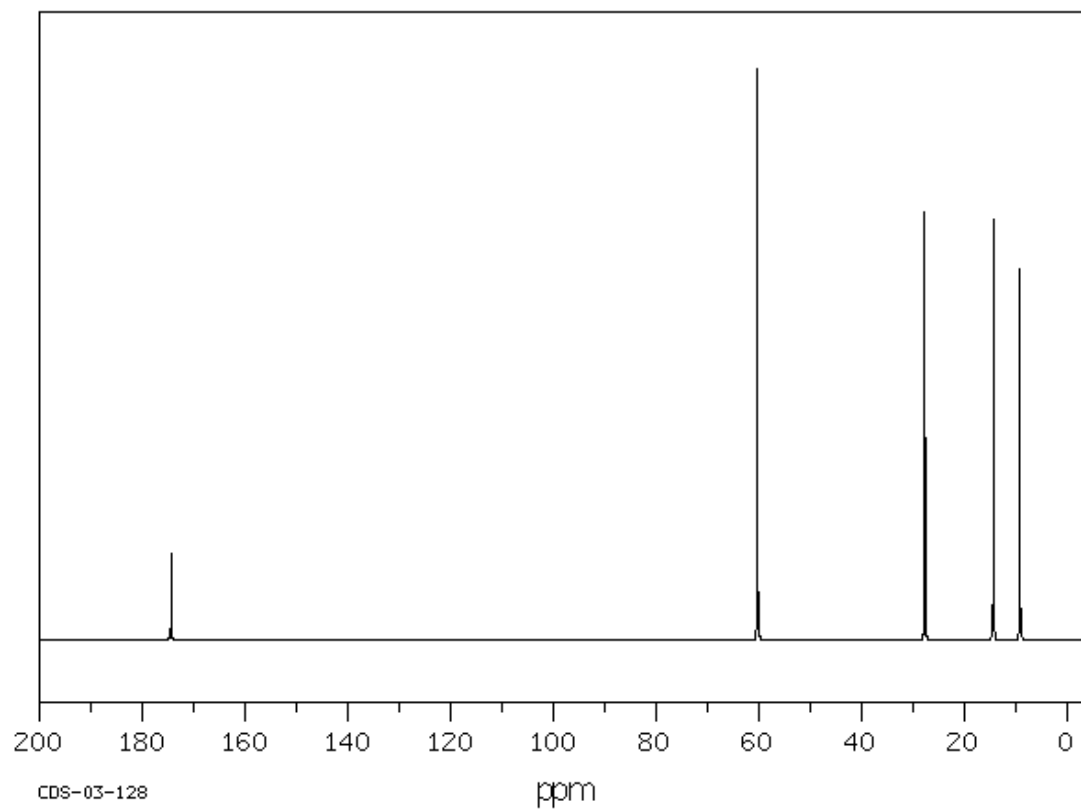
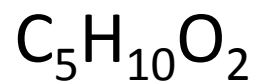


coupled

Deduce the structure of the compound using the ^{13}C NMR spectra shown in the following slides

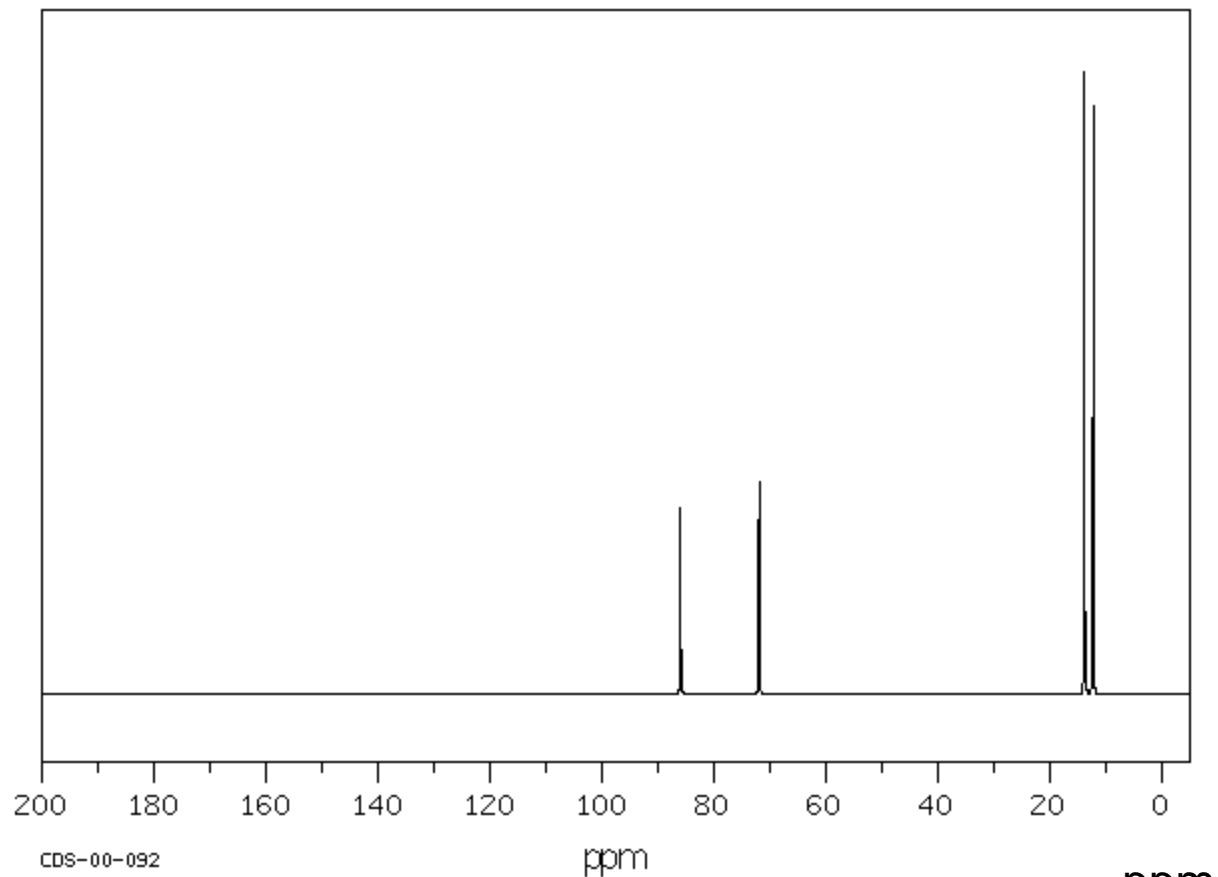
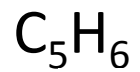






In proton coupled spectra, the following fine structure was obtained

<u>ppm</u>	
174.40	s
60.26	t
27.71	t
14.32	q
9.19	q



In proton coupled spectra, the following fine structure was obtained

ppm	
85.96	d
71.94	s
13.81	q
12.27	t