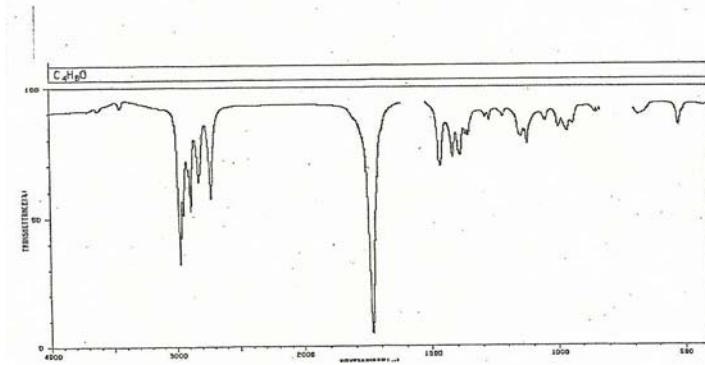
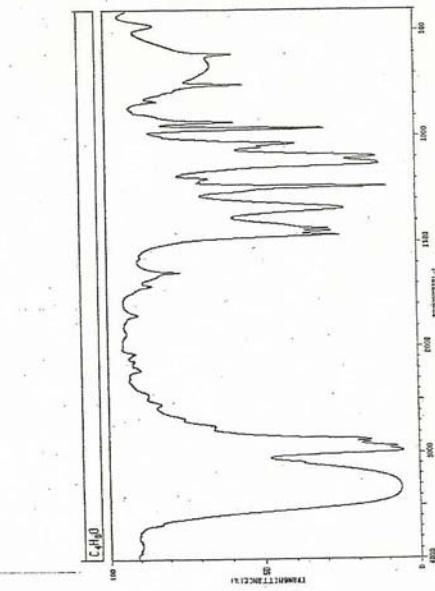
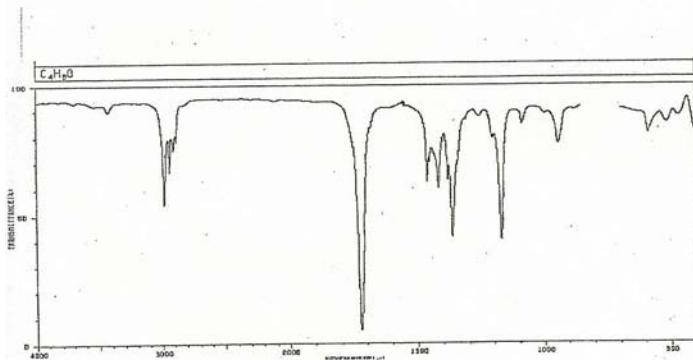
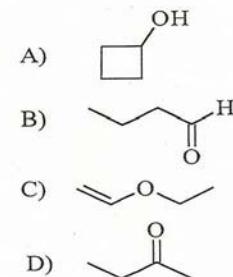
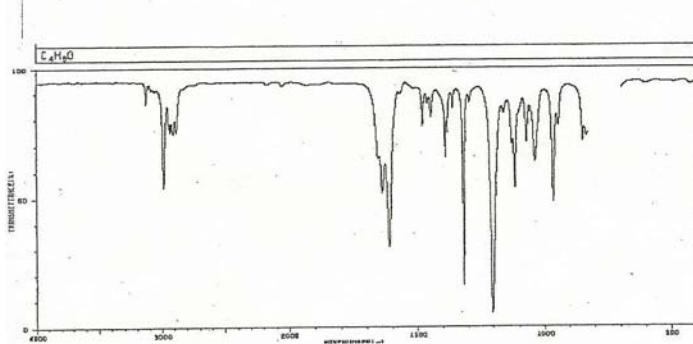


2.(16) Match the four IR spectra below with the following isomers of C_4H_8O . Also, site at least one feature of each spectrum that distinguishes it from all the others (and state to what the absorption is due, e.g. C-O str.)

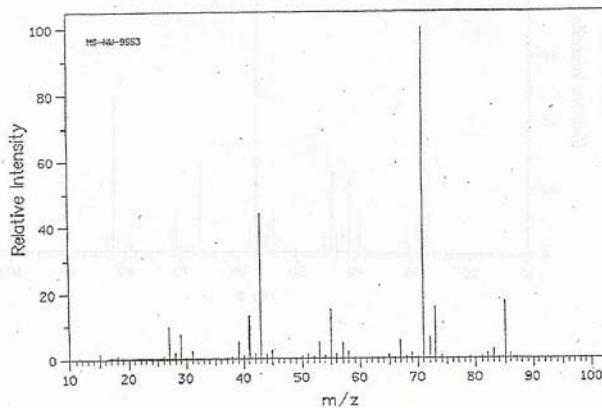
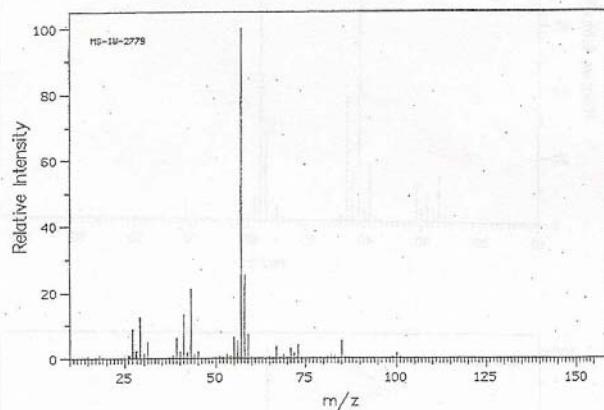
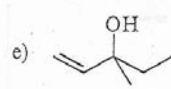
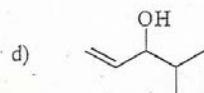
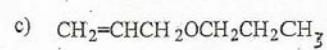
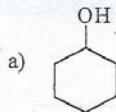


Name _____

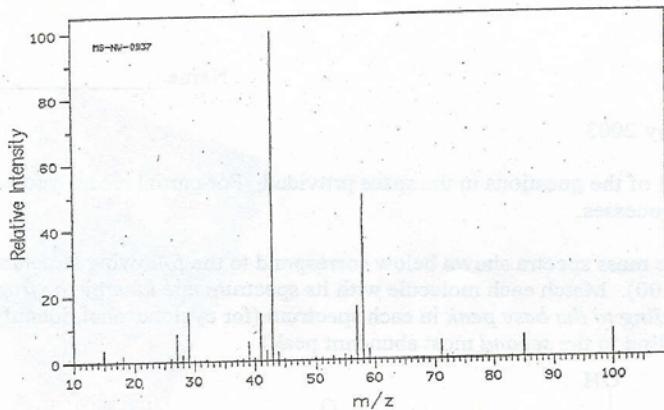
18 February 2003

Answer all of the questions in the space provided. For partial credit, you need to show thought-processes.

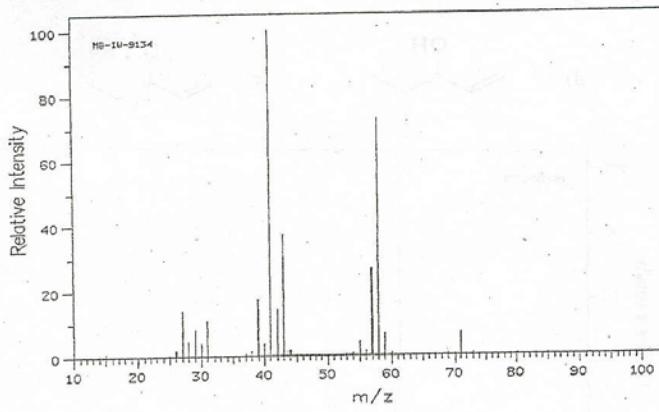
1.(20) The mass spectra shown below correspond to the following structural isomers (all with $m^+=100$). Match each molecule with its spectrum and identify the fragment corresponding to the base peak in each spectrum (for cyclohexanol, identify the fragment corresponding to the second most abundant peak).



3)



4)



5)

