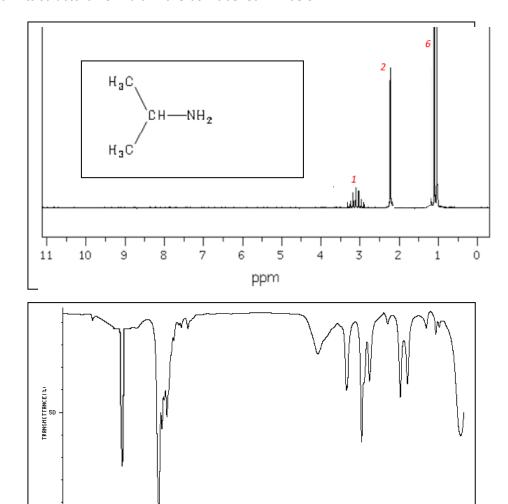
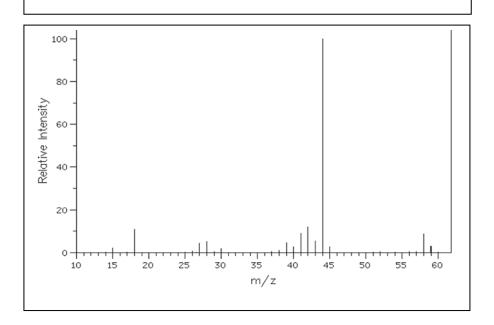
3000

1) The 1 HNMR, IR and the MS of a compound with the *empirical* formula C_3H_9N are shown below. Draw its structural formula in the box labelled "A" below.



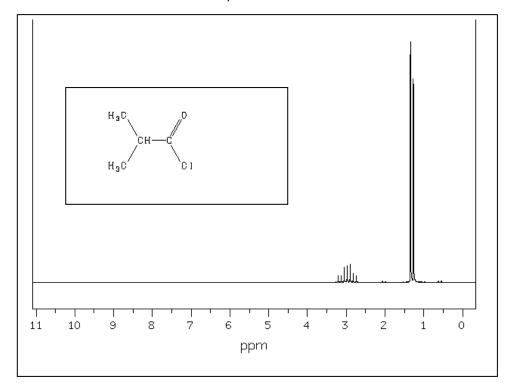


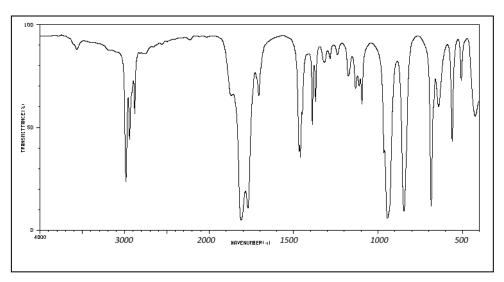
1500

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1000

2) Below are the 1 HNMR and IR spectra of a molecule with the molecular formula C_4H_7CIO . Draw the structural formula of the compound in the box labelled "A" below.





3) Which of the following molecules cannot be identified through IR? Explain why. CH_3OH , CO_2 , CI_2 , CH_4 and O_2 . Solution