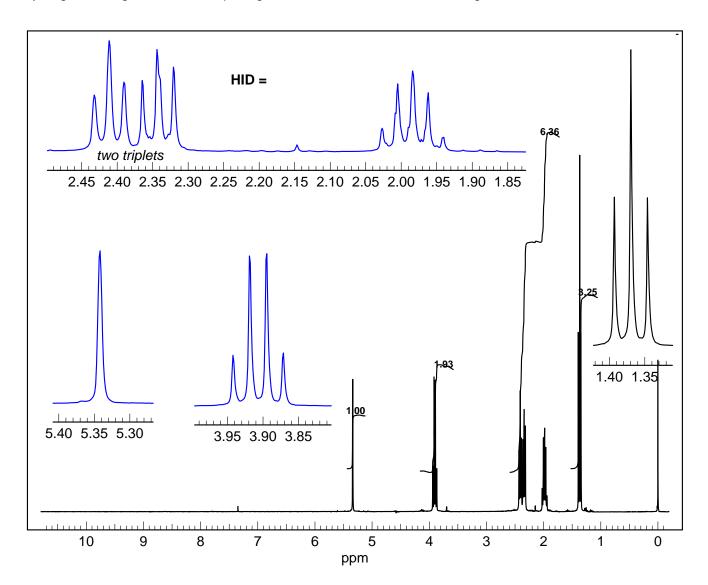
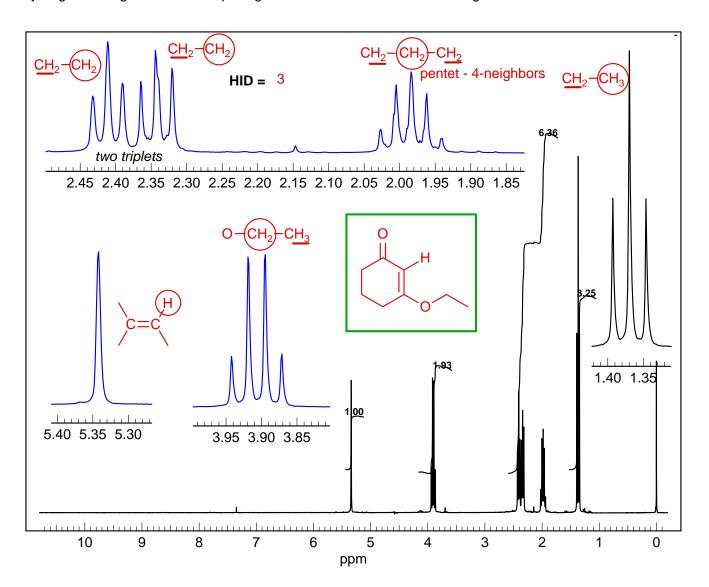


5. (12 pts.) Determine the structure of $C_8H_{12}O_2$ from the 1H NMR spectrum shown. Determine the index of hydrogen deficiency. Write part structures revealed by the chemical shifts, splitting and integrals for all the multiplets. In each part structure **circle** the hydrogens responsible for the absorption and **underline** the hydrogens that give rise to the splitting. *Hint: The structure contains a ring.*



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These two also fit the data pretty well