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Two alkenes, A and B, have the same molecular formula C_5H_{10}, give the same alkane when treated with H_2/Pd and the same alcohol when treated with $H^{\oplus}/H_2O$. However, they give different alcohols when treated with BH_3: THF followed by $H_2O_2/^{\ominus}OH$. Treatment of alkene A with O_3 followed by Zn/H_2O gave two carbonyl compounds C (C_3H_6O) and D (C_2H_4O) that showed the following NMR data.
C δ 2.07 singlet

D δ 9.79 quartet (1H) and δ 2.21 doublet

Give structures for A, B, C and D

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