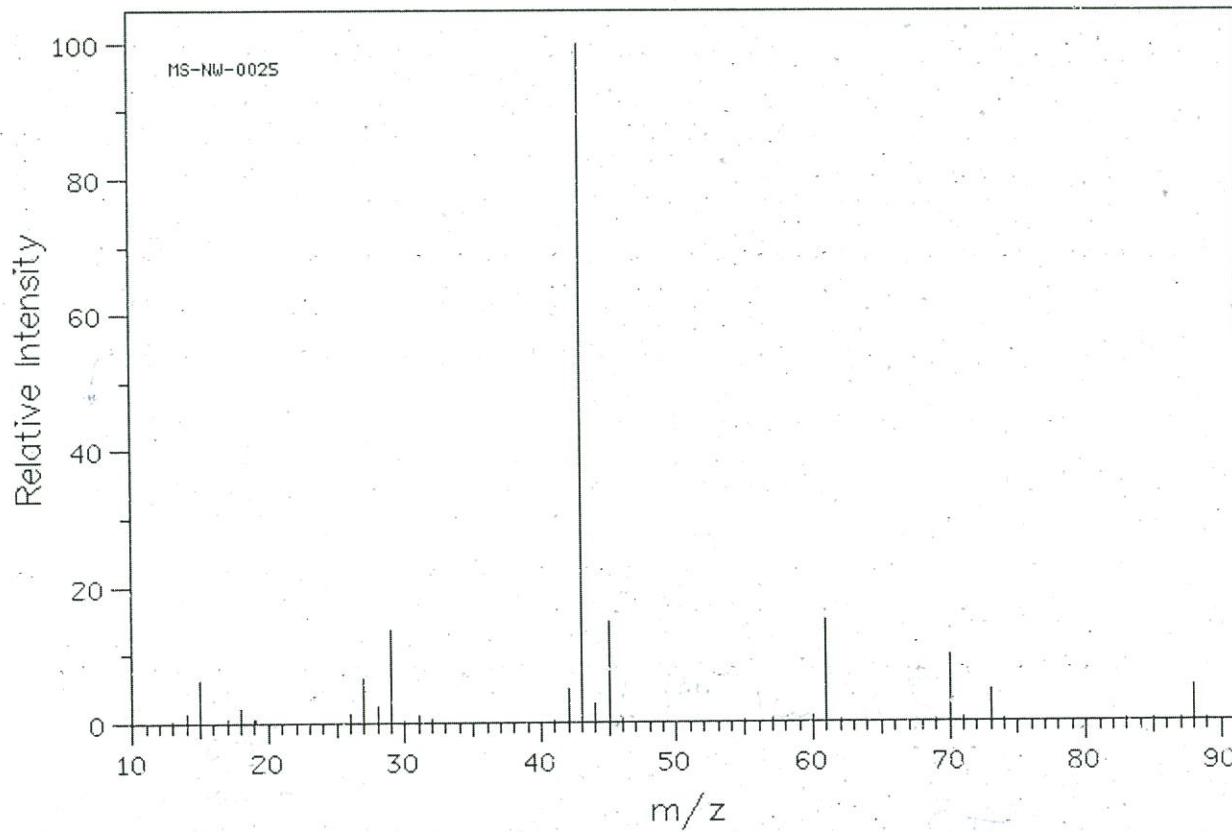


## Organic Chemistry II

CHM 224

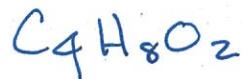
Consider the mass spectrum, below, of an ester (contains only C, H and O).



molecular ion  $88$

base peak  $43$

molecular formula

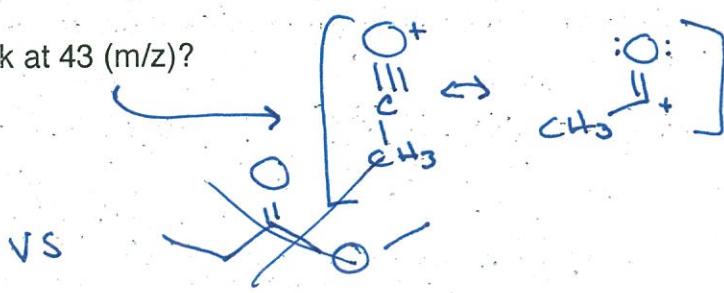
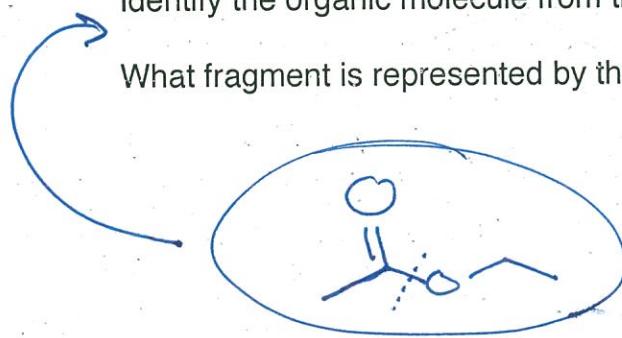


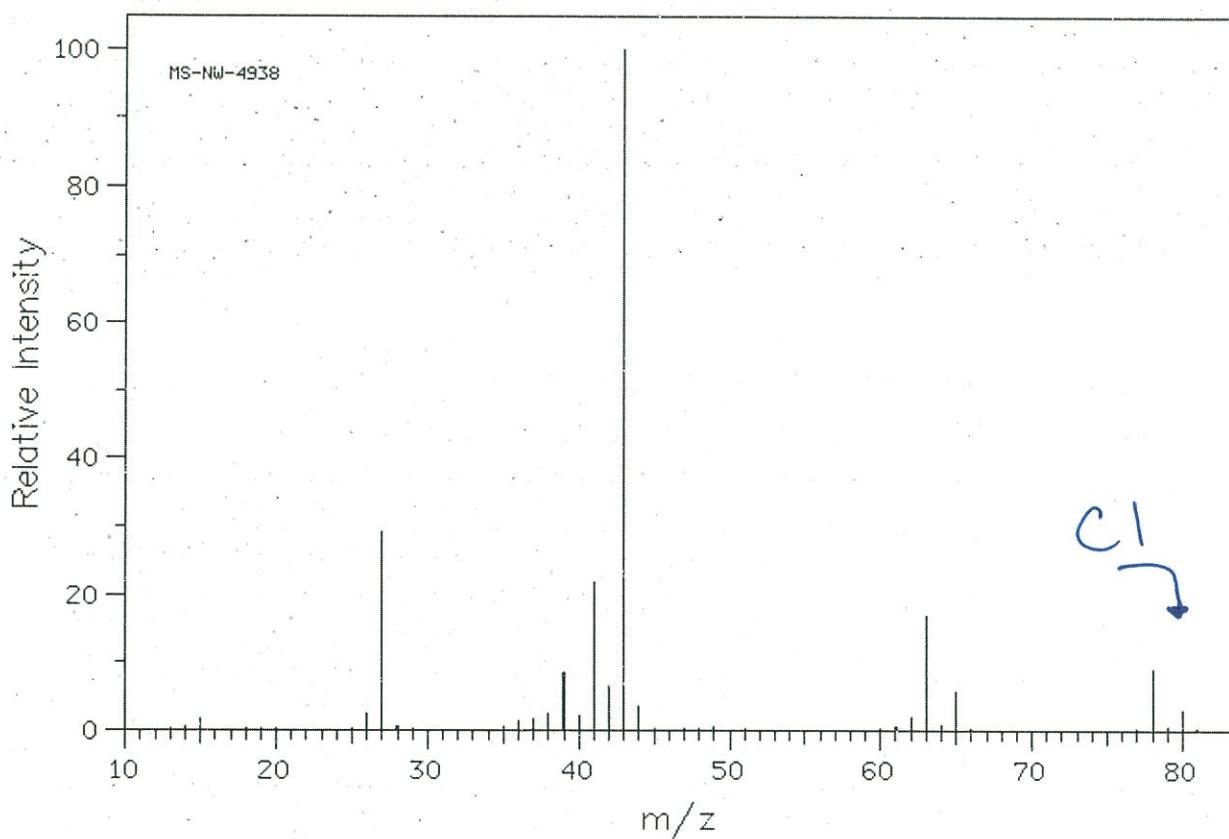
degree of unsaturation  $1$

$$\begin{array}{r} 88 \\ -32 \\ \hline 56 \end{array}$$

Identify the organic molecule from the information given in the spectrum

What fragment is represented by the peak at 43 (m/z)?





molecular ion  $78 \text{ w/ } ^{35}\text{Cl}$

base peak  $43$

$$\begin{array}{r} 78 \\ - 35 \\ \hline 43 \end{array}$$

molecular formula  $C_3H_7Cl$

degree of unsaturation  $\textcircled{O}$

Identify the organic molecule.



What fragment is represented by the peak at 43 (m/z)?

