Mass Spec

| m/z ratio | group |
|-----------|---|
| 88 | C ₂ H ₄ O is the empirical formula and has a mass of 44 so compound must have formula C ₄ H ₈ O ₂ |

IR:

1

| Wavenumber(cm ⁻¹) | Characteristic group |
|-------------------------------|----------------------|
| 2980 broad | -OH |
| 1710 sharp | <mark>C=O</mark> |

NMR:

There are 4 carbons in the molecule.

Student 5: Low Achieved

NZQA Intended for teacher use only