

Student 5: Low Achieved

NZQA Intended for teacher use only

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

①

IR:

Wavenumber(cm ⁻¹)	Characteristic group
2980 broad	-OH
1710 sharp	C=O

NMR:

There are 4 carbons in the molecule.