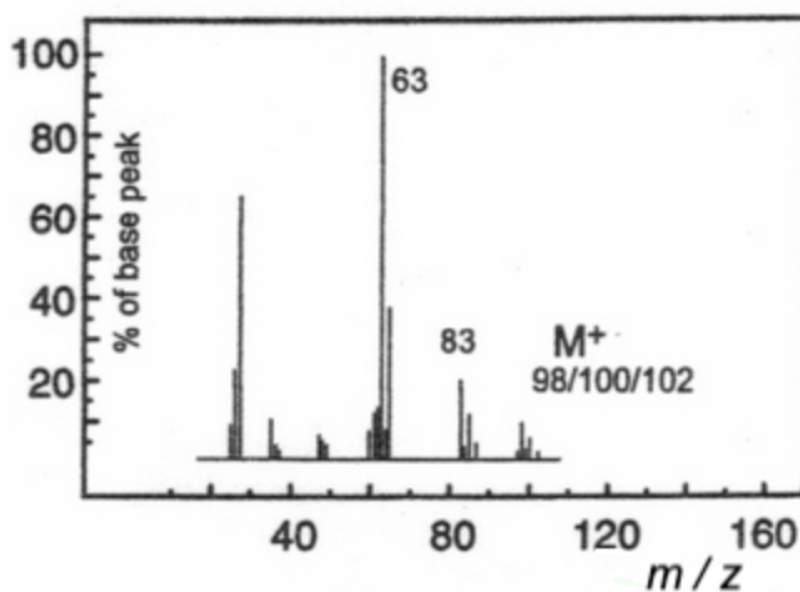# SL & HL Spectroscopic identification of organic compounds: Question 1

Identify **Compound A** from the data (a – d) given and explain how you arrived at your answer
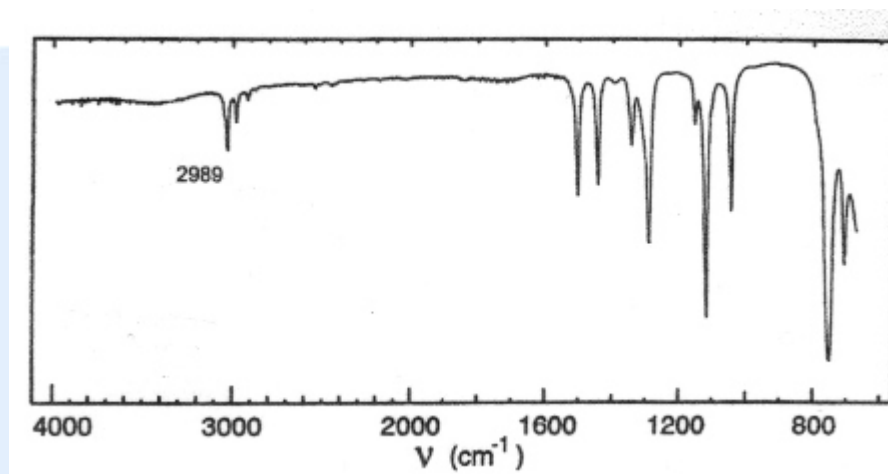
(a) Elemental analysis of **Compound A**

Element	Percentage by mass
Carbon	24.3
Hydrogen	4.1
Chlorine	71.6

(b) Mass spectrum of **Compound A**

(c) Infrared spectrum of **Compound A**

(d) Information about **Compound A** from ^{1}H NMR spectrum

Position of signal / δ ppm	Integration trace
2.0	3
5.8	1