

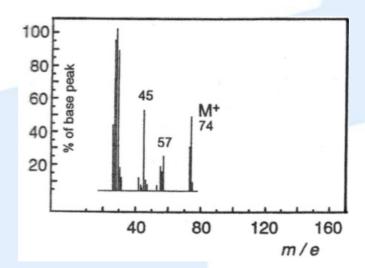
# **SL & HL Spectroscopic identification of organic compounds: Question 6**

Identify Compound F from the data (a - d) given and explain how you arrived at your answer

### (a) Elemental analysis of Compound F

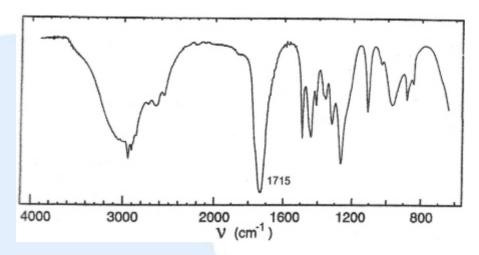
Percentage by mass
48.63
8.18
43.19

#### (b) Mass spectrum of Compound F





## (c) Infrared spectrum of Compound F



# (d) Information about Compound F from <sup>1</sup>H NMR spectrum

Position of signal / δ ppm	Integration trace
1.1	3
2.4	2
11.1	1