

## 8.3 Problem 2

### Learning Objectives

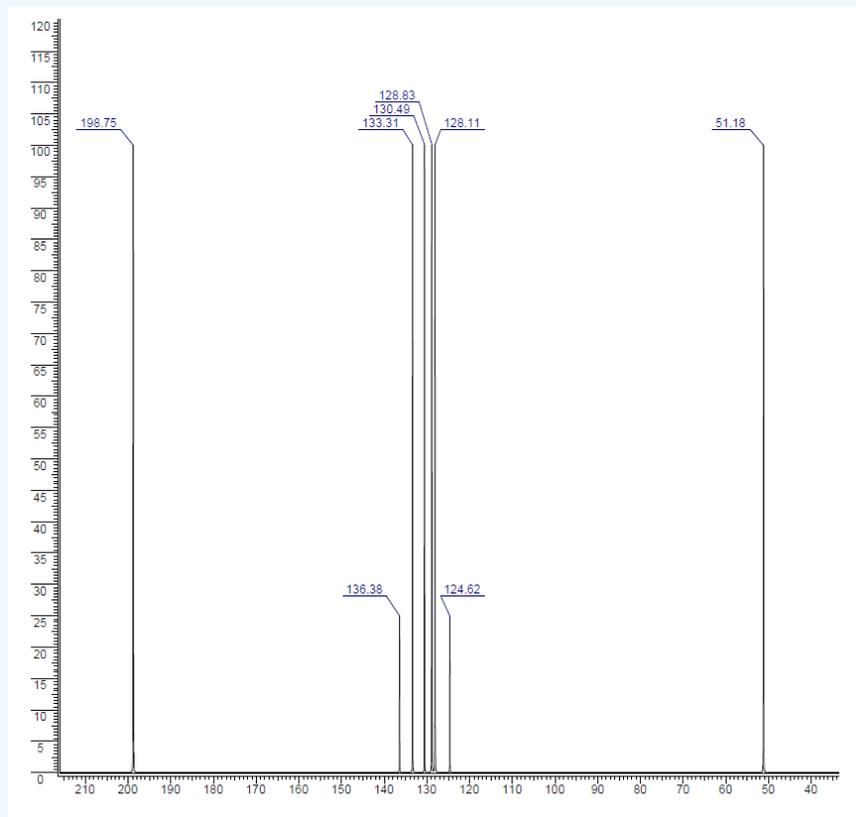
- Determine the structure for the following problem.

### Exercise 1

Solve the structure using the following spectral data.

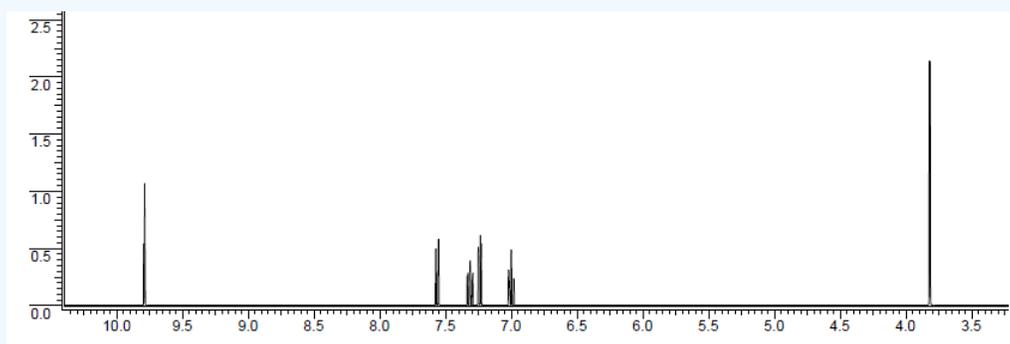
Molecular Formula:  $C_8H_7BrO$

$^{13}C$  Spectrum:



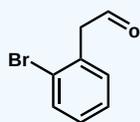
$^1H$  NMR Spectrum:

Integration: 1:1:1:1:1:2 (left to right)



Chemical Shift	Splitting	Coupling Constant (Hz)
3.8	doublet	2
7	triplet of doublets	7 and 2
7.2	doublet of doublets	7 and 2
7.3	triplet of doublets	7 and 2
7.5	doublet of doublets	7 and 2
9.8	triplet	2

**Answer**



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