

## 8.6 Problem 5

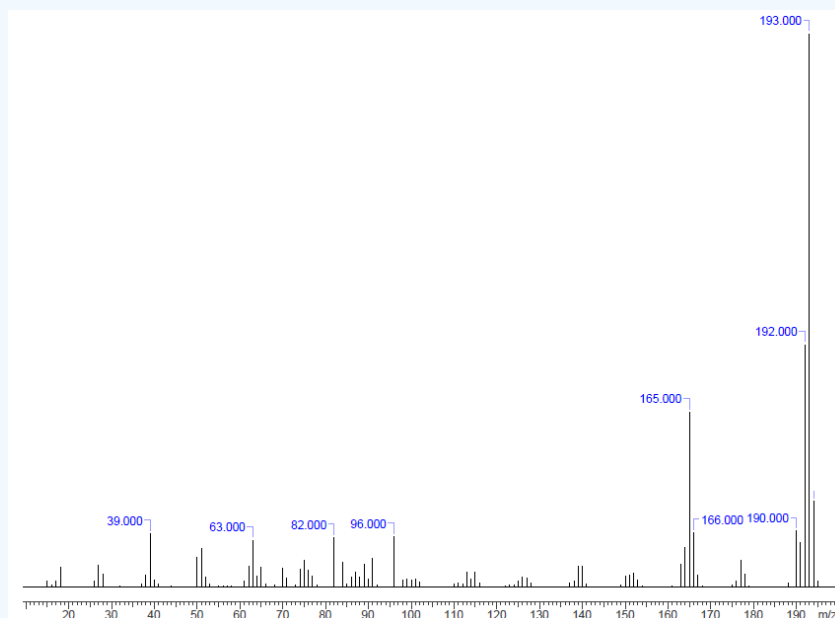
### Learning Objectives

- Determine the structure for the following problem.

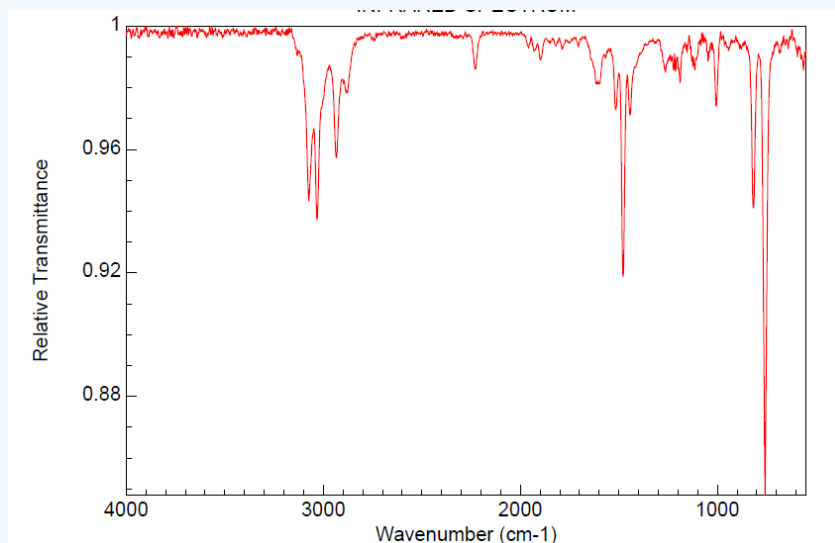
### Exercise 1

Solve the structure using the following spectral data.

Mass Spectrum:

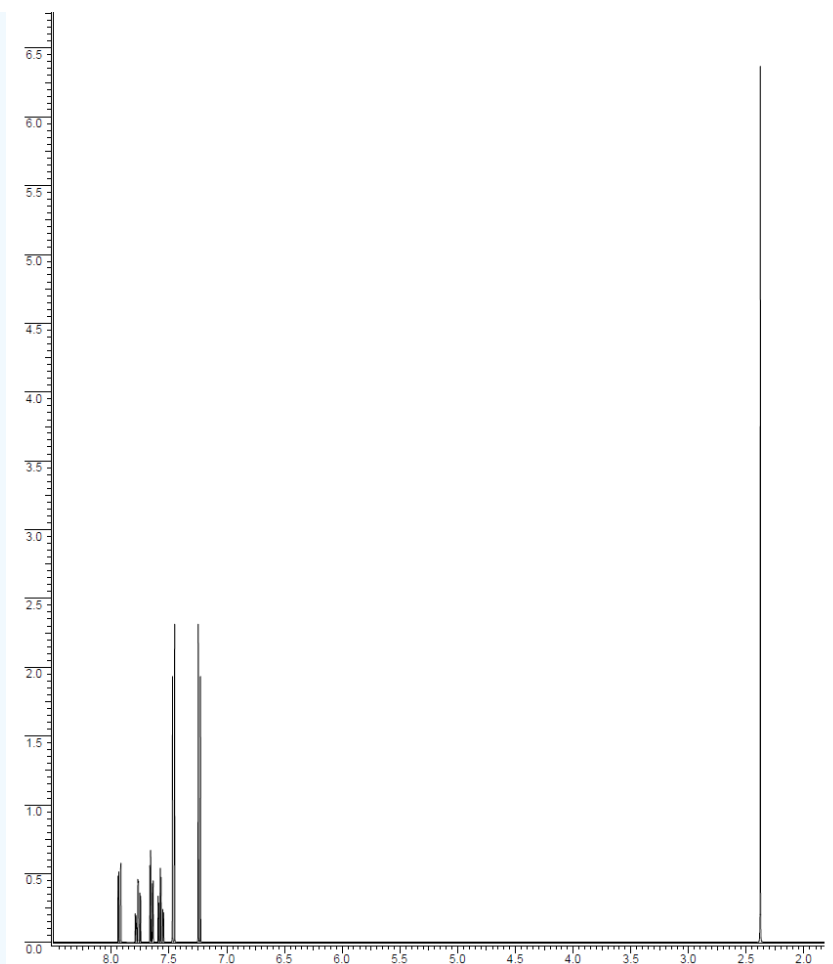


IR Spectrum:

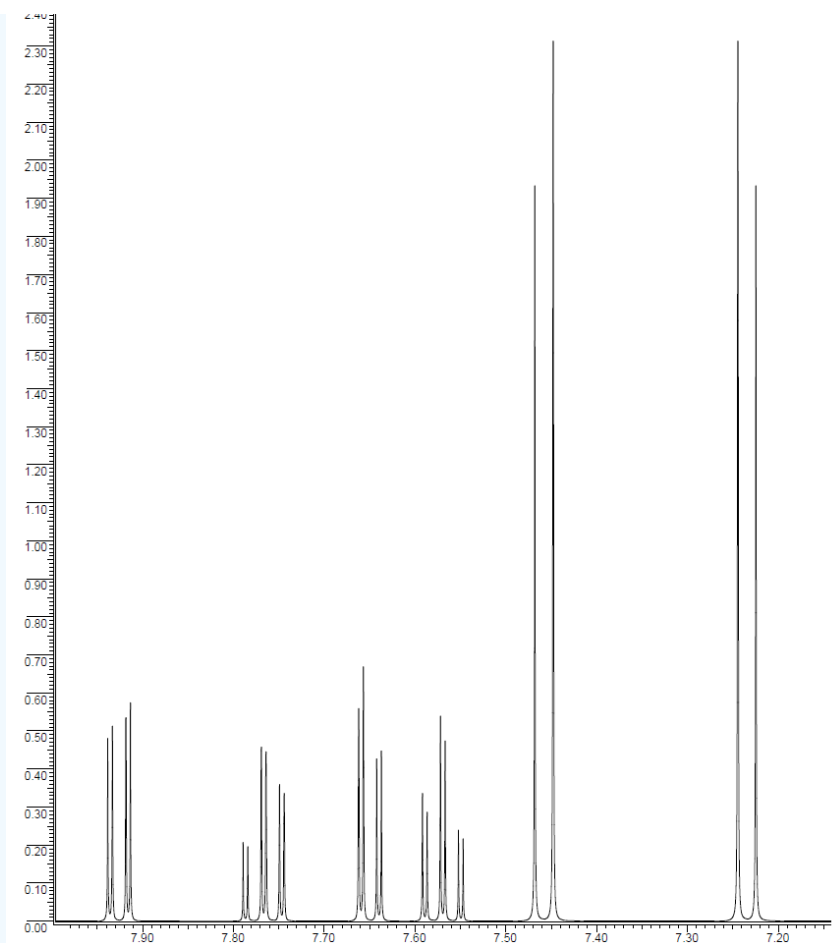


<sup>1</sup>H NMR Spectrum:

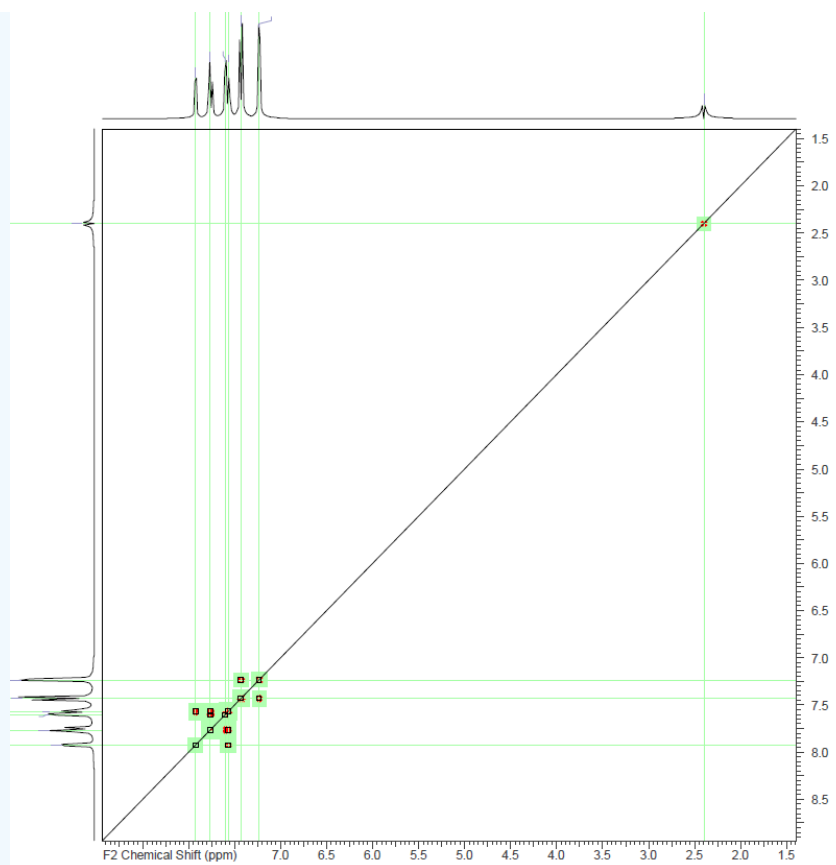
Integration: 1:1:1:1:2:2:3



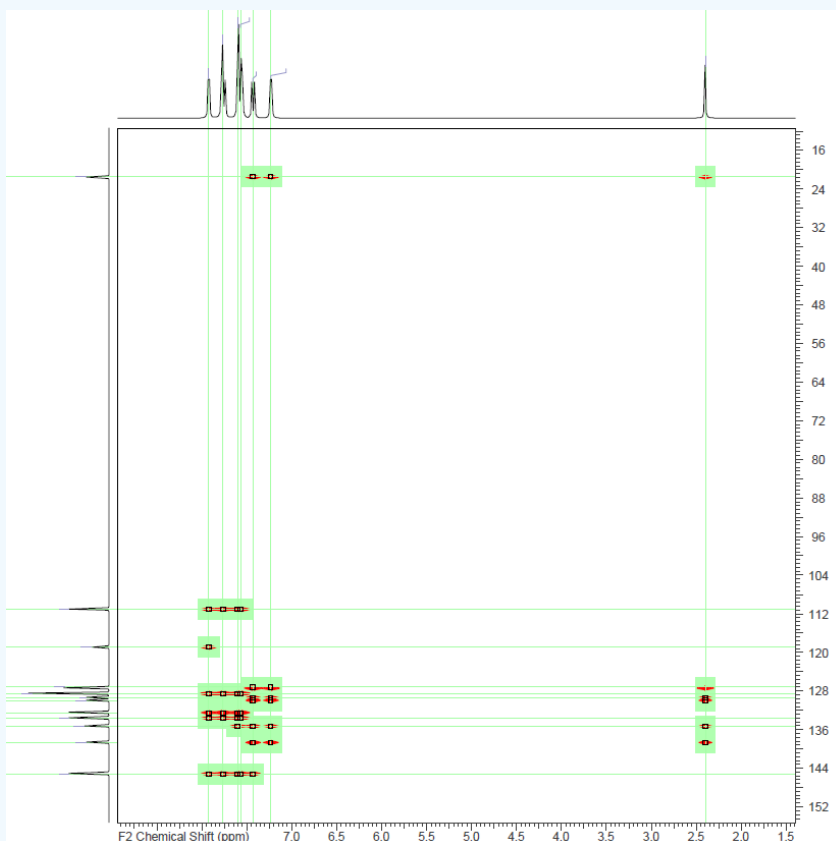
Zoomed in on Aromatic Region:



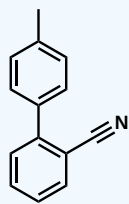
COSY:



HMBC:



Answer



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