

8.5 Problem 4

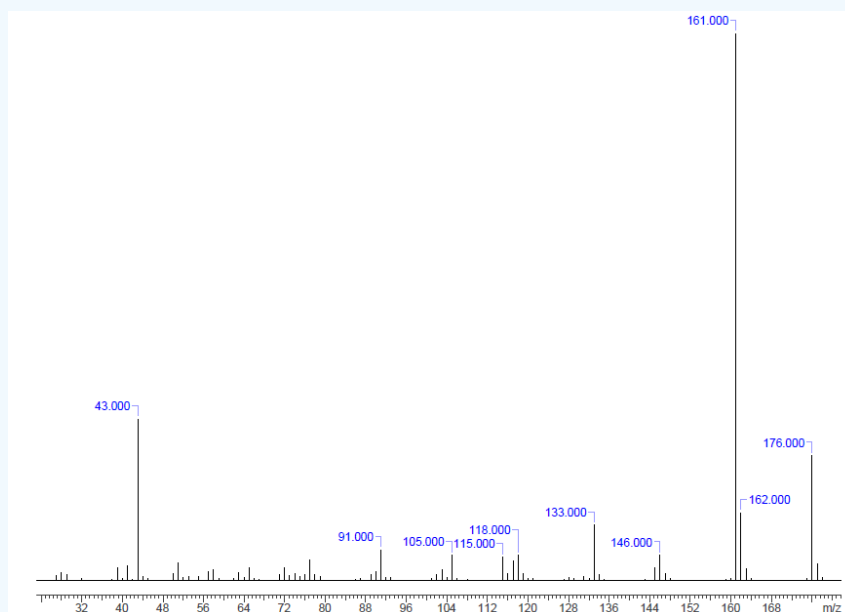
Learning Objectives

- Determine the structure for the following problem.

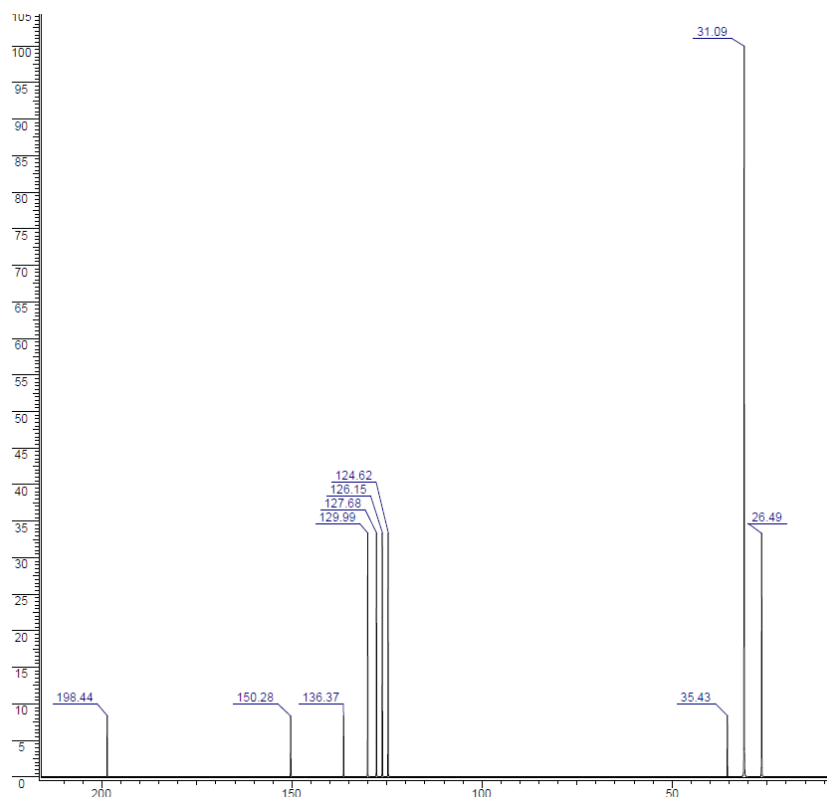
? Exercise 1

Solve the structure using the following spectral data.

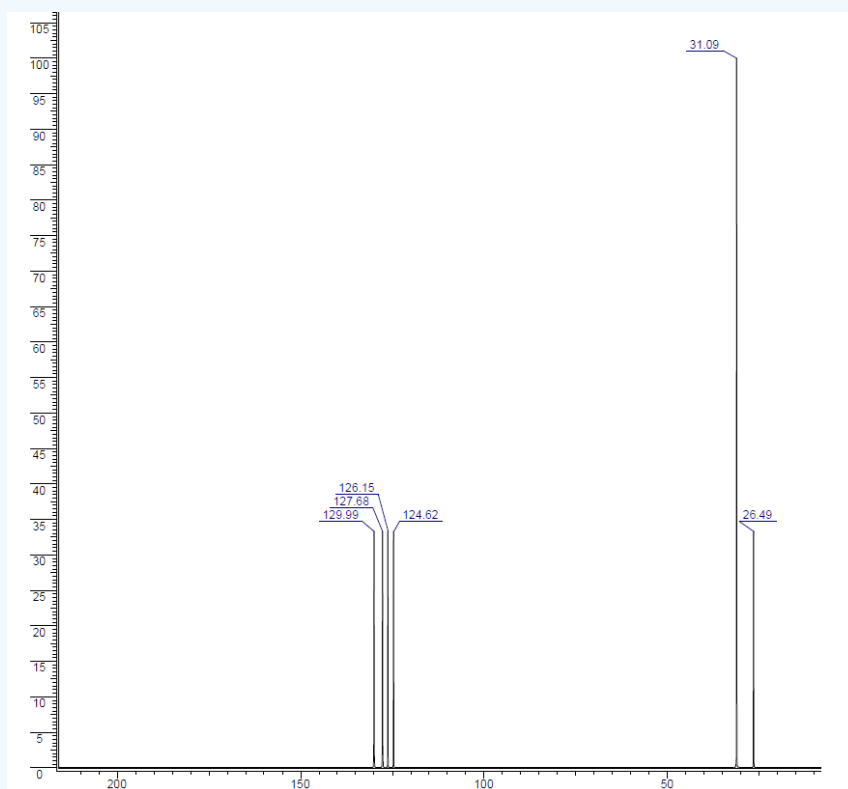
Mass Spectrum:



^{13}C Spectrum:

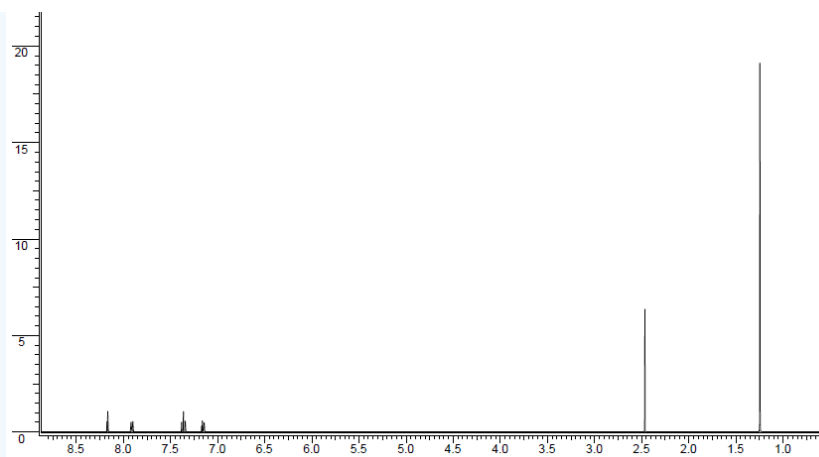


DEPT-135 Spectrum:

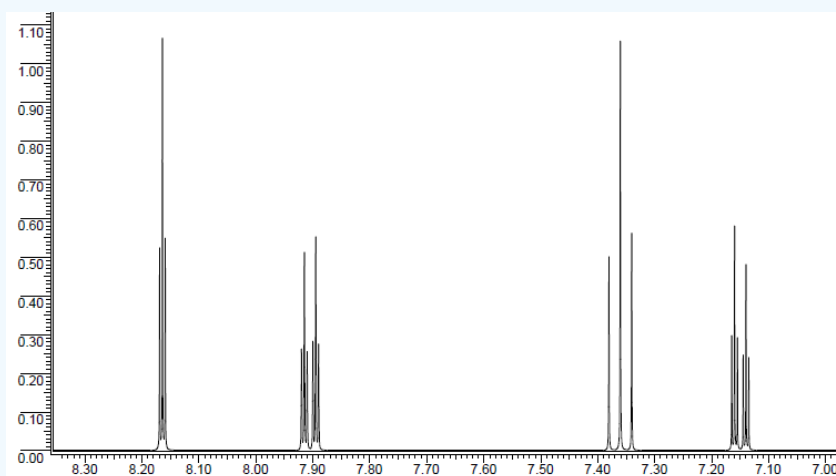


¹H NMR Spectrum:

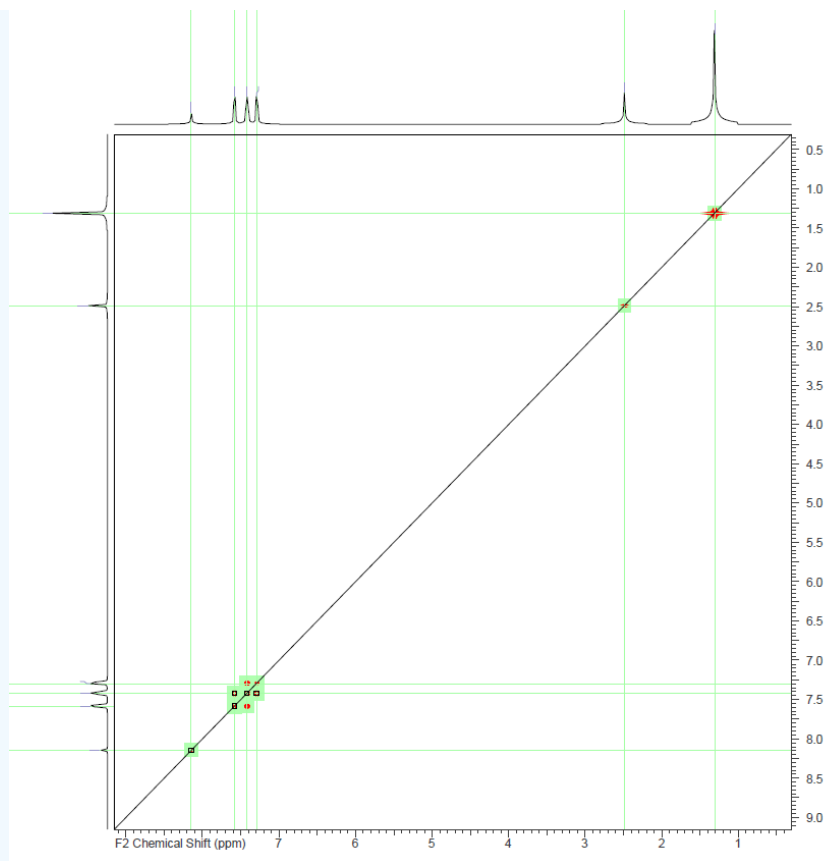
Integration: 1:1:1:1:3:9



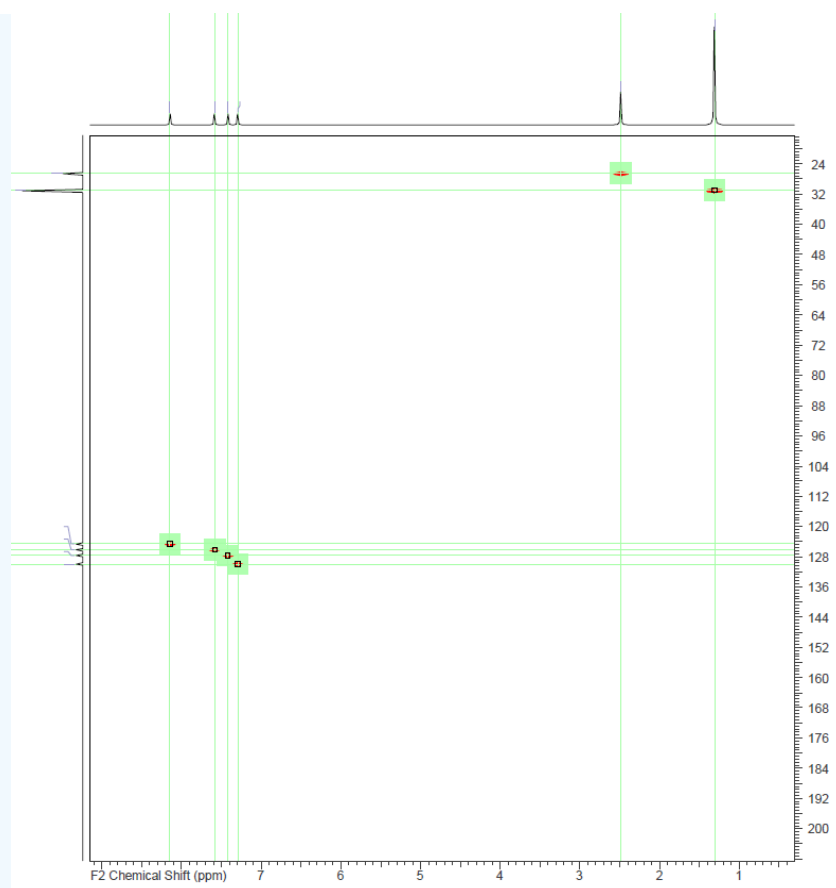
^1H NMR Spectrum Zoomed in from 7 ppm to 8.3 ppm:



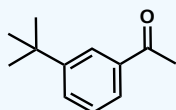
COSY:



HSQC:



Answer



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