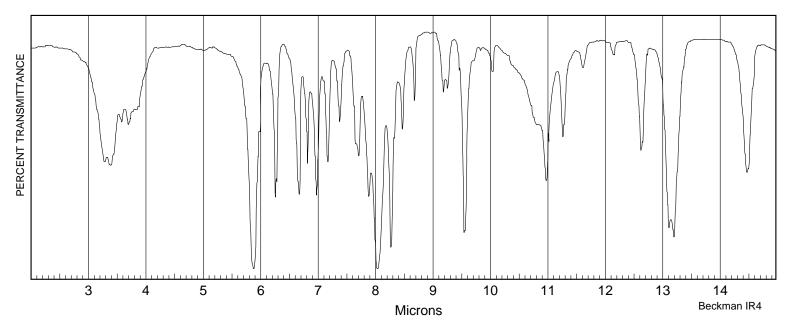
Problem N-80-1

- a. DBE_
- b. Identify IR peaks. Give functionality by marking them on the spectrum.

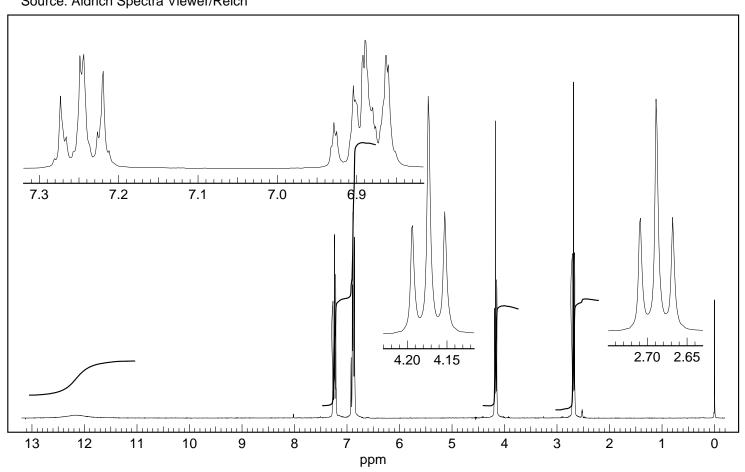


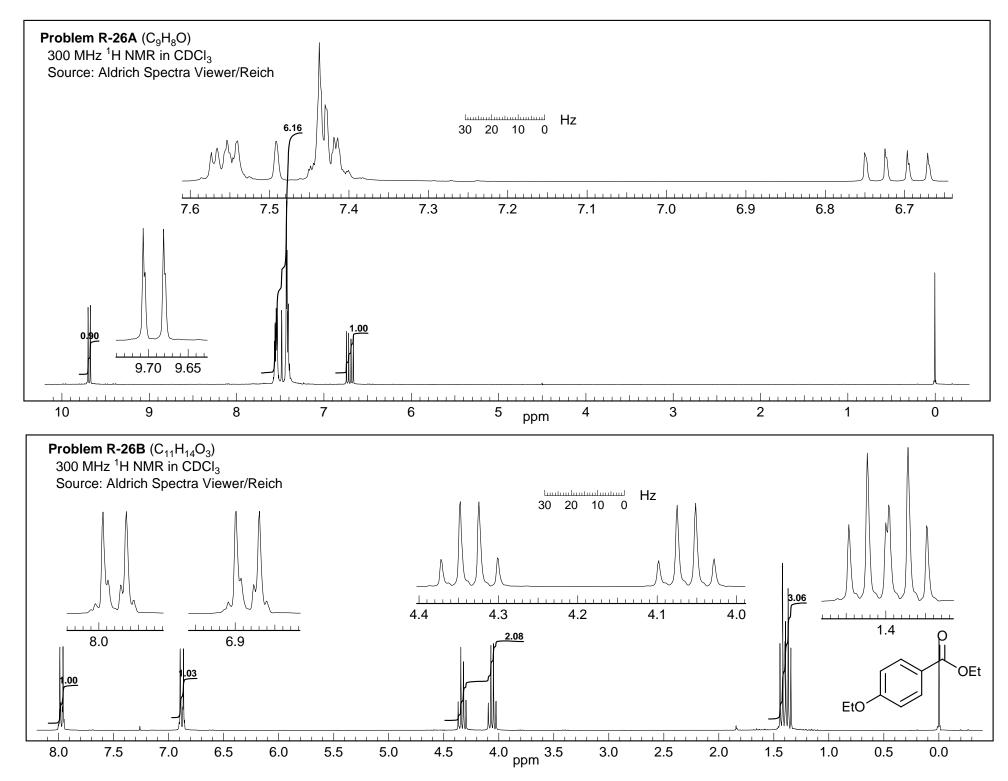
c. Identify fragments from the ¹H NMR spectrum.

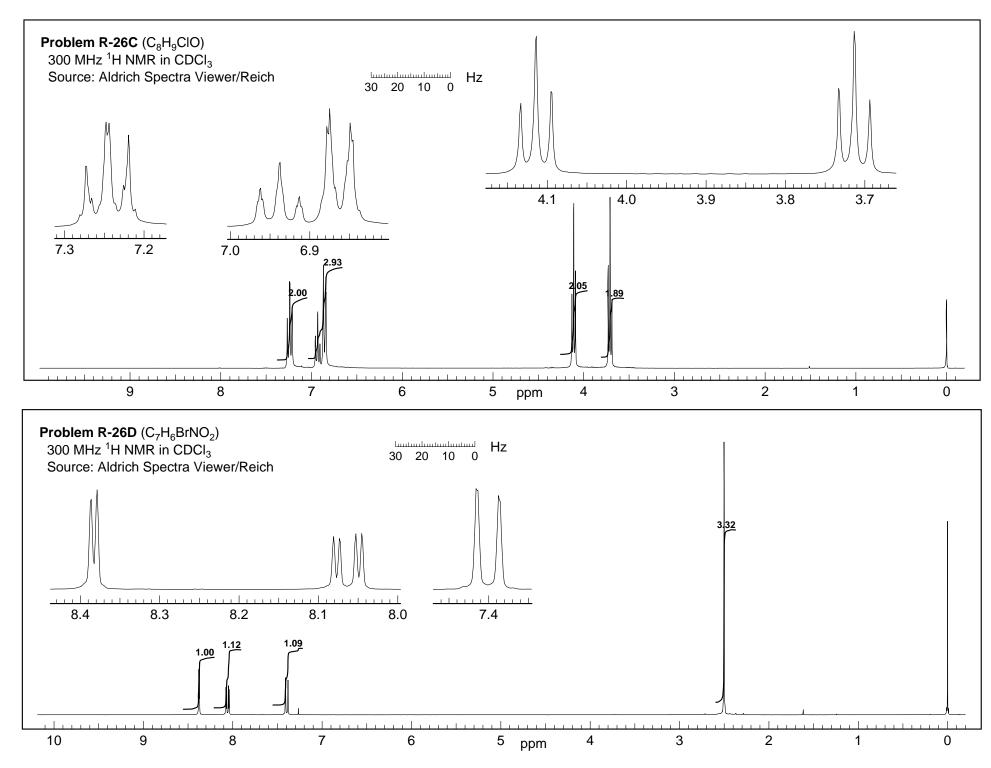
Problem N-80-1 C₉H₁₀O₃

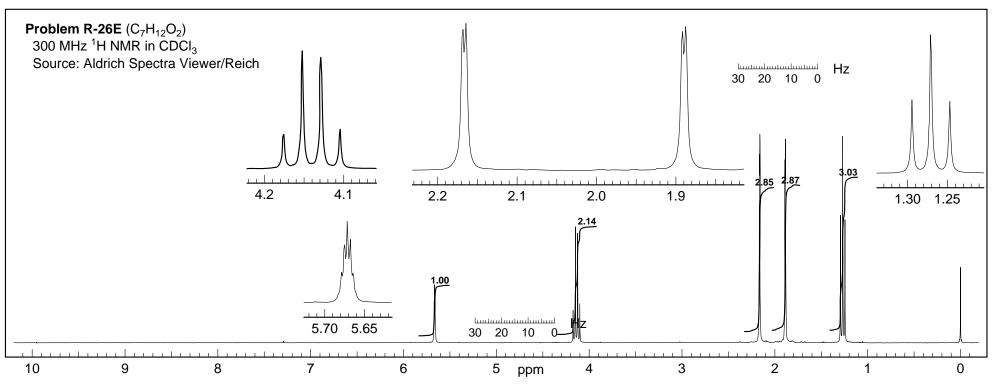
300 MHz ¹H NMR spectrum in CDCI₃/DMSO-d₆

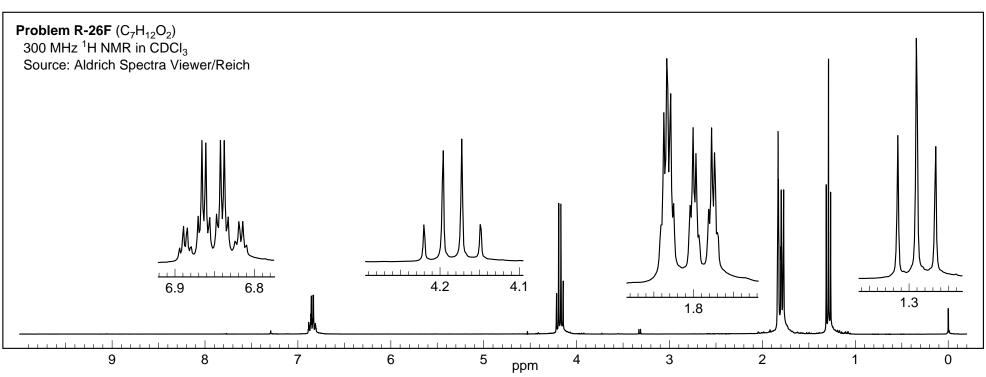
Source: Aldrich Spectra Viewer/Reich





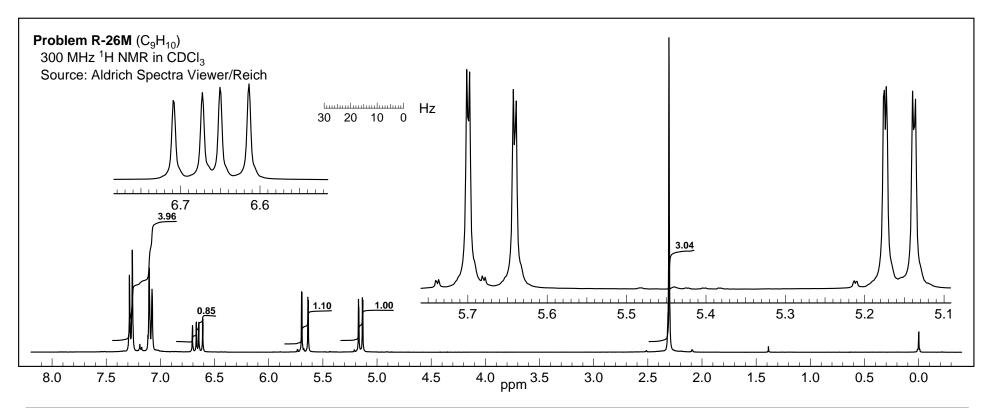


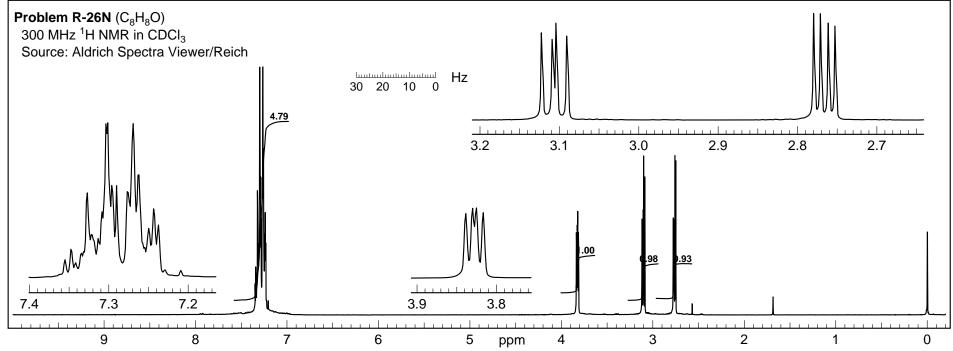




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Problem R-301-A: Extracting *J* couplings from First Order Spectra

Each pattern is caused by a single proton. Analyze each in terms of J values for protons splitting the ones observed, and report in the standard fashion (eg, tdt, J = 12, 3, 2 Hz). Draw a "coupling tree."

