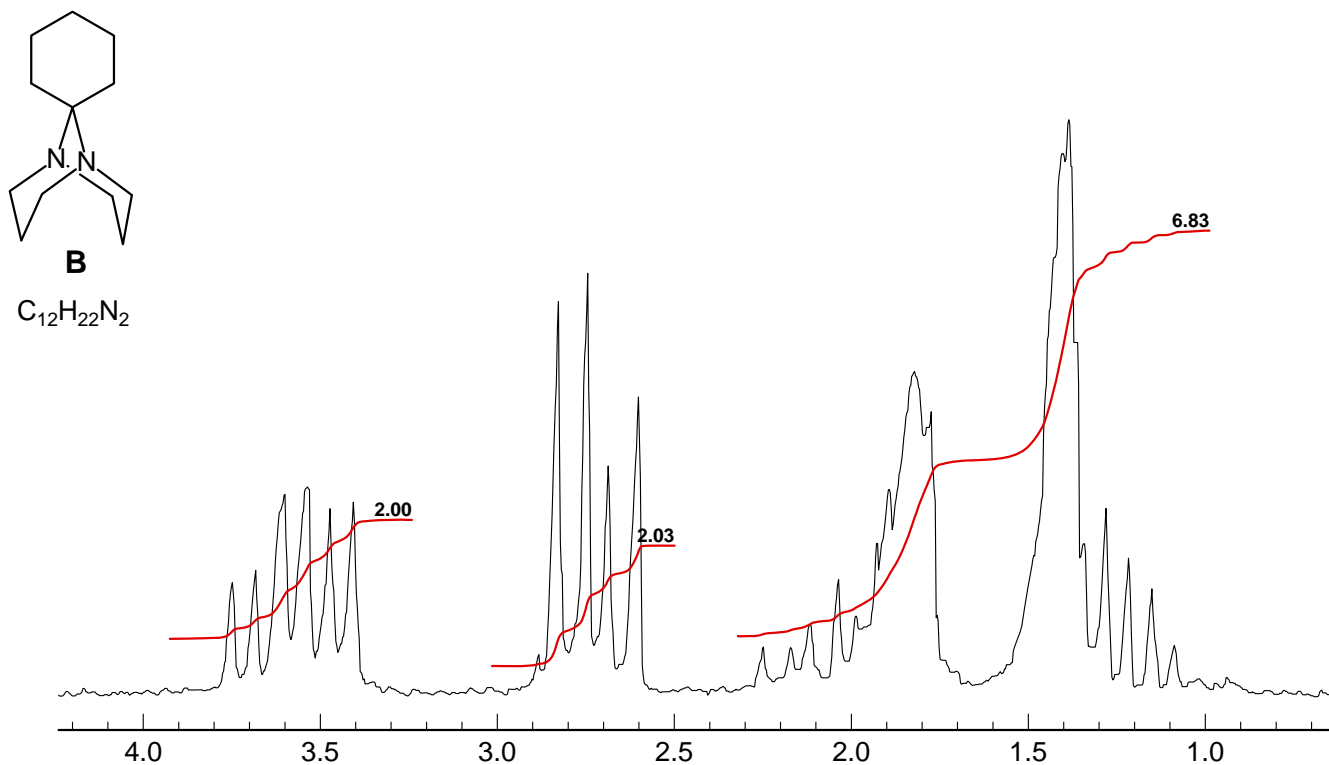
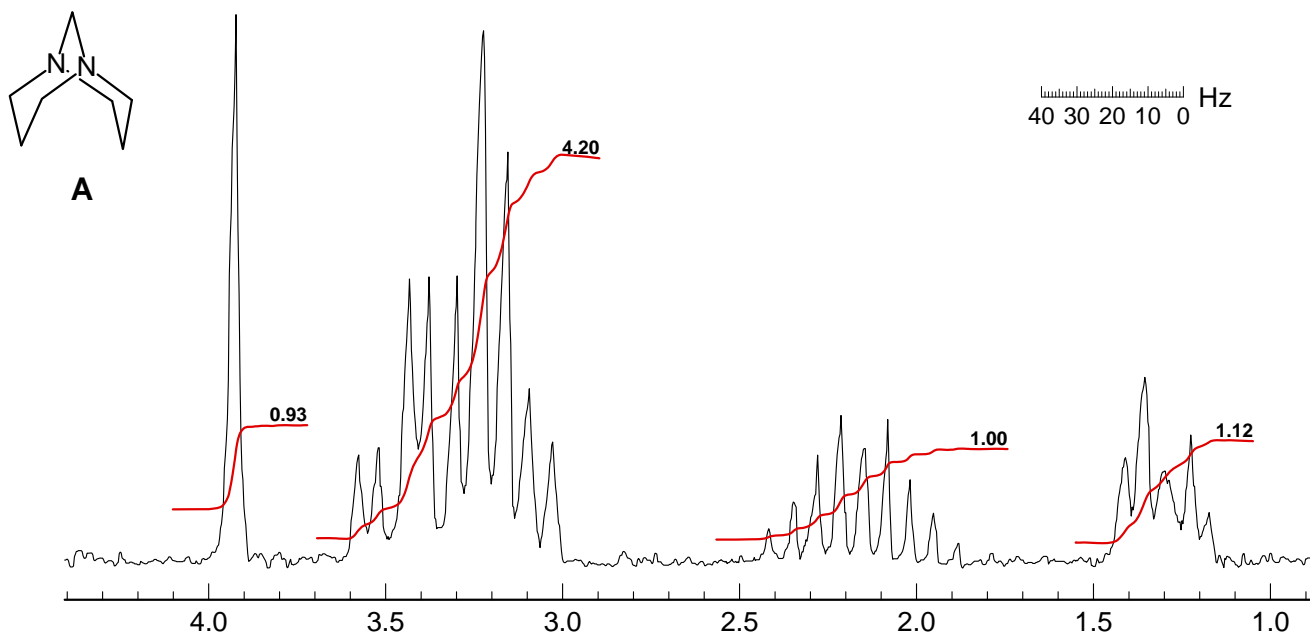
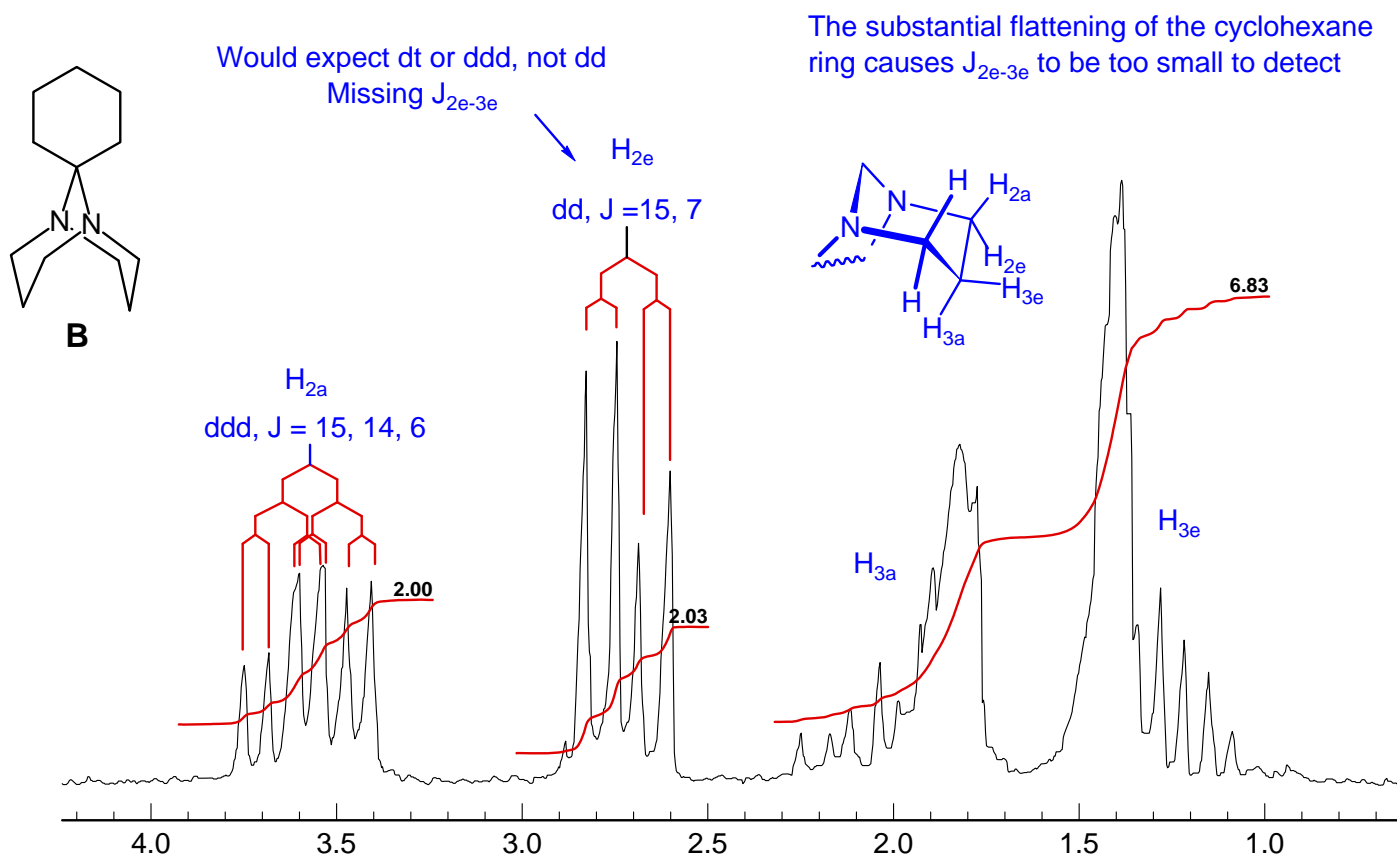
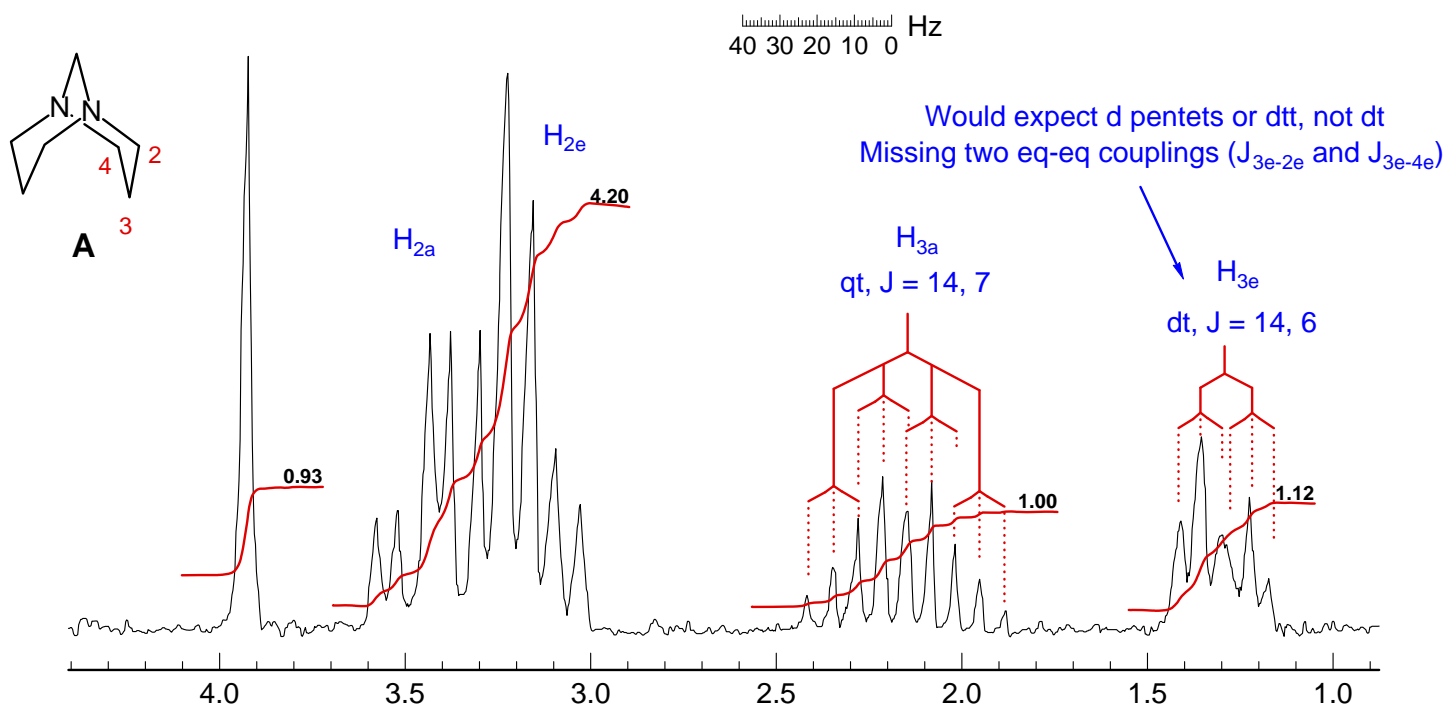


**Problem N-110** ( $C_7H_{14}N_2$ ). Analyze the 100 MHz NMR Spectra ( $CDCl_3$ ), assign all well defined protons. What do the coupling constants tell you about the conformation of these molecules? (Source: S. F. Nelsen *JACS* **1972**, *94*, 7105 12-18).



The two upfield multiplets are well-separated in A, and the two downfield in B.

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