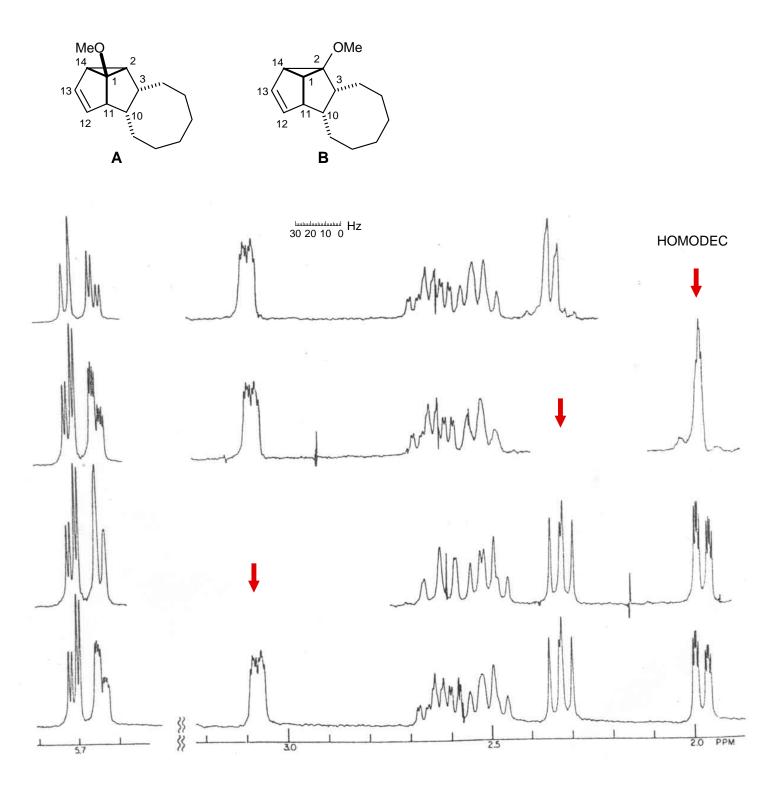
**Problem N-156** ( $C_{15}H_{22}O$ ). The major photoaddition product of anisole and cyclooctene has been assigned to structure A and B by different groups. Assign the protons in the 270 MHz NMR spectrum below, showing whether A or B is the currect structure. The bottom spectrum shows two portions of the <sup>1</sup>H NMR spectrum of the adduct. Upper plots show effects of decoupling at positions shown by arrows (Sheridan, Tet. Lett. **1982**, *23*, 267).



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