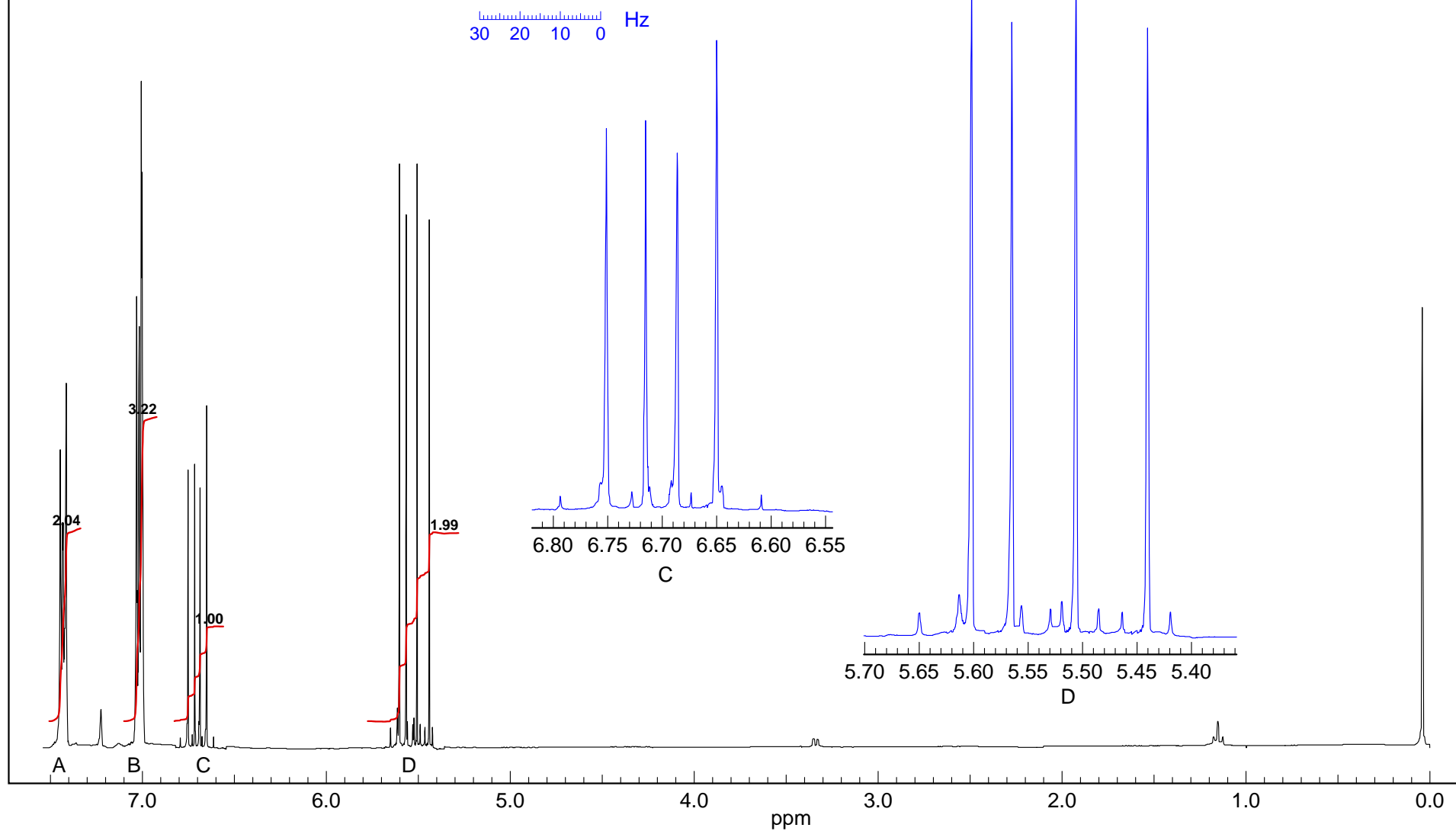
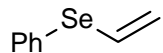


Problem R-100 (C_8H_8Se).

270 MHz 1H NMR spectrum in C_6D_6

Source: W. W. Willis / Reich (digitized hard copy) g



Problem R-100. ($\text{C}_8\text{H}_8\text{Se}$) Determine the structure from the 270 MHz ^1H NMR spectrum.

(a) DBE_____

(b) Determine the structure of **R-100**. Mark the chemical shifts on a drawing of the molecule below.

(c) Obtain all of the coupling constants from the expansions of the multiplets C and D. Report them in the standard format ($^nJ_{\text{X-Y}} = 0.00 \text{ Hz}$). Clearly mark them on a drawing of the molecule, and on the spectra.

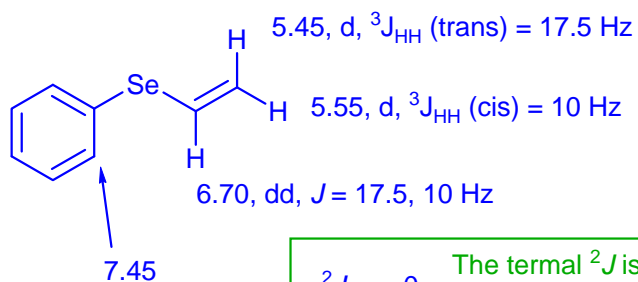
Problem R-100. (C_8H_8Se) Determine the structure from the 270 MHz 1H NMR spectrum.

3

(a) DBE 5

(b) Draw the structure of **R-100**. Mark the chemical shifts on a drawing of the molecule below.

11

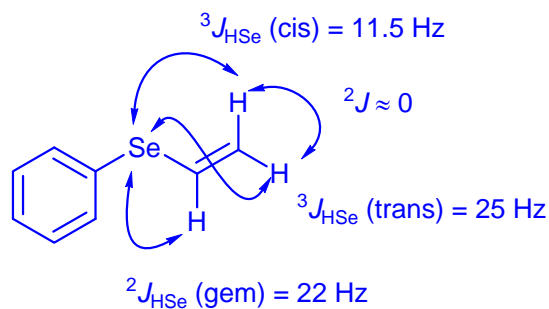


$$^2J_{HH} \approx 0$$

The termal 2J is too small to detect - this is also seen for some RS substituents

(c) Obtain all of the coupling constants from the expansions of the multiplets C and D. Report them in the standard format ($^nJ_{X-Y} = 0.00$ Hz). Clearly mark them on a drawing of the molecule, and on the spectra.

8



-4 for half/values

Problem R-100 ($\text{C}_8\text{H}_8\text{Se}$).

270 MHz ^1H NMR spectrum in C_6D_6

Source: W. W. Willis / Reich (digitized hard copy) g

