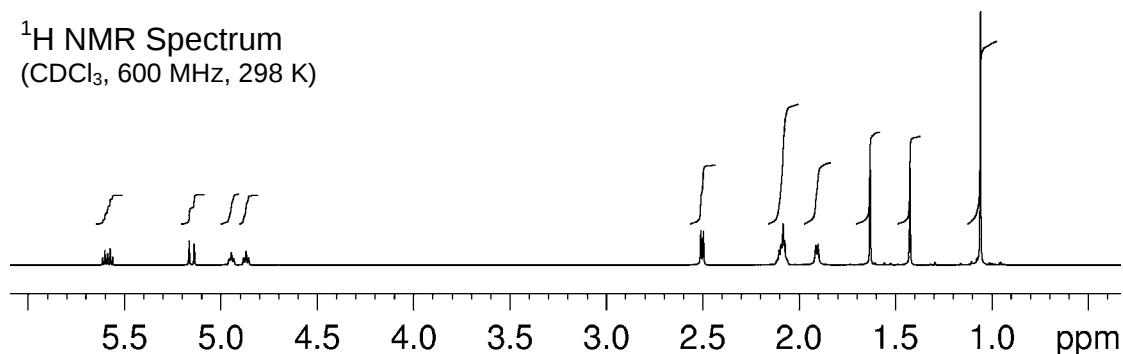


Problem 56

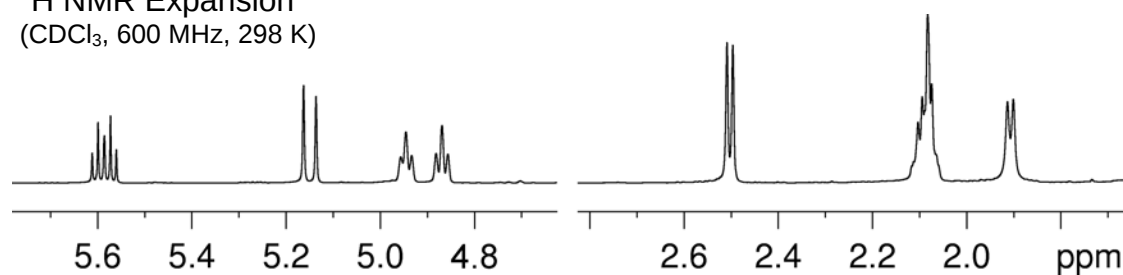
The following spectra belong to a macrocyclic sesquiterpene which contains three *trans*-substituted double bonds. Identify the compound.

Molecular Formula: $C_{15}H_{24}$

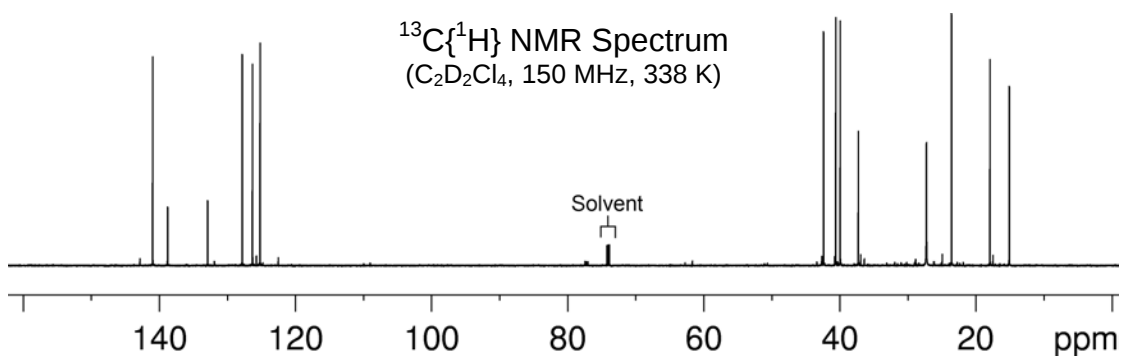
1H NMR Spectrum
($CDCl_3$, 600 MHz, 298 K)



1H NMR Expansion
($CDCl_3$, 600 MHz, 298 K)



$^{13}C\{^1H\}$ NMR Spectrum
($C_2D_2Cl_4$, 150 MHz, 338 K)



$^{13}C\{^1H\}$ NMR Expansion
($C_2D_2Cl_4$, 150 MHz, 338 K)

