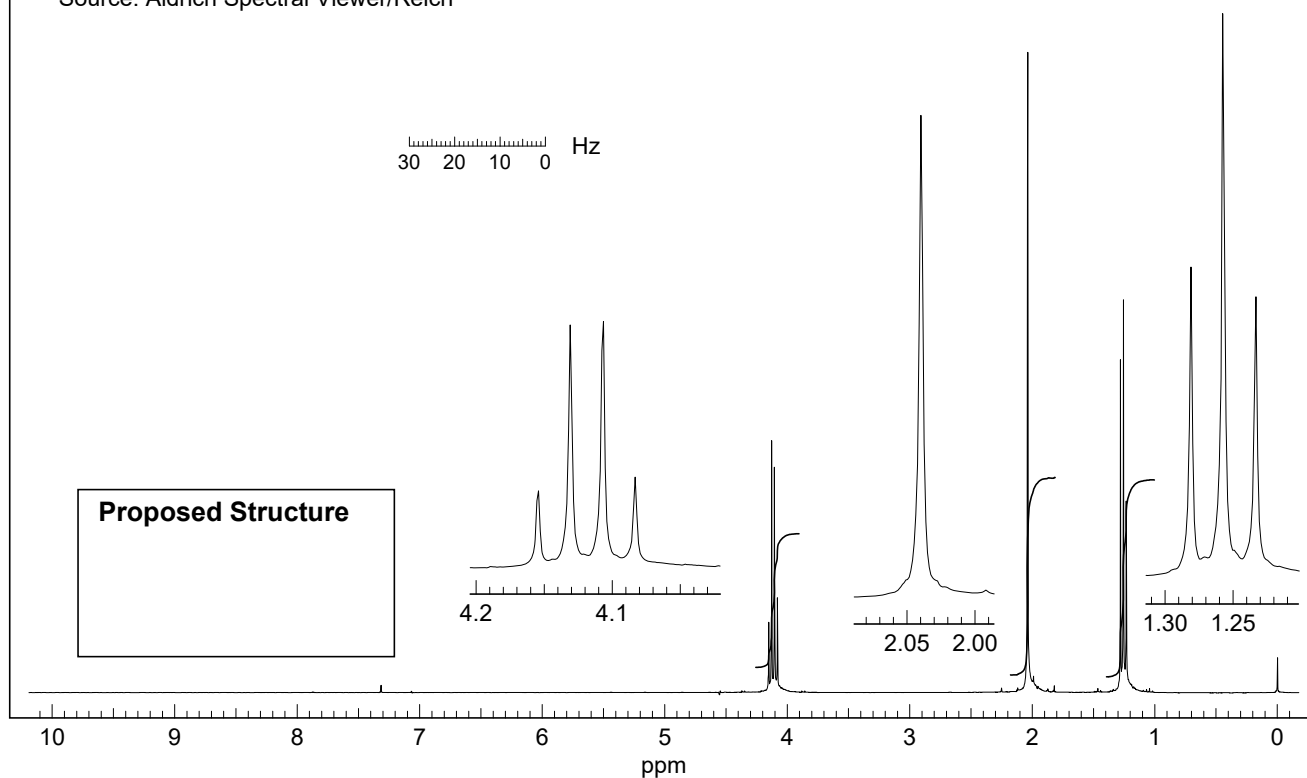


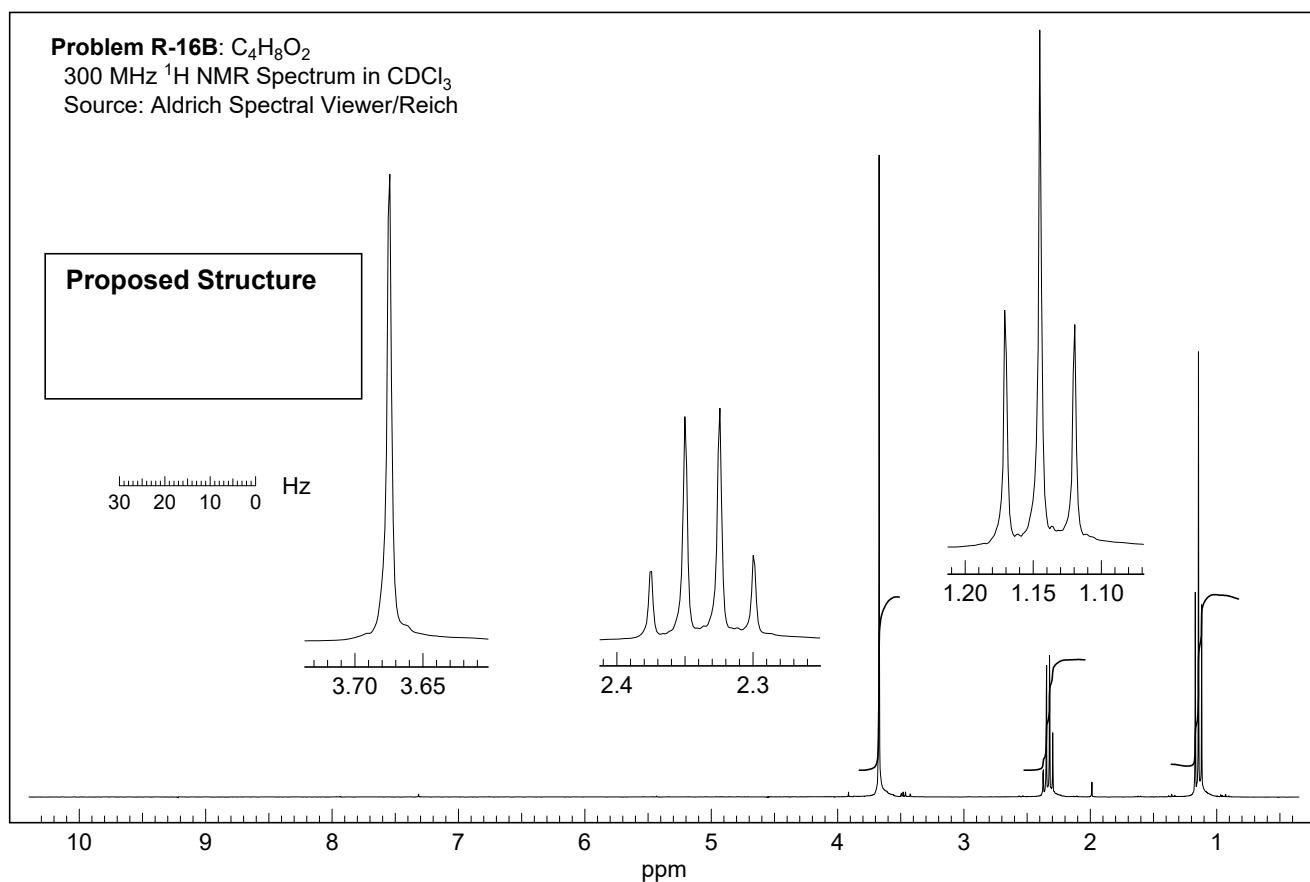
Two Isomers of C₄H₈O₂

Reich
Chem 345
Chem 605

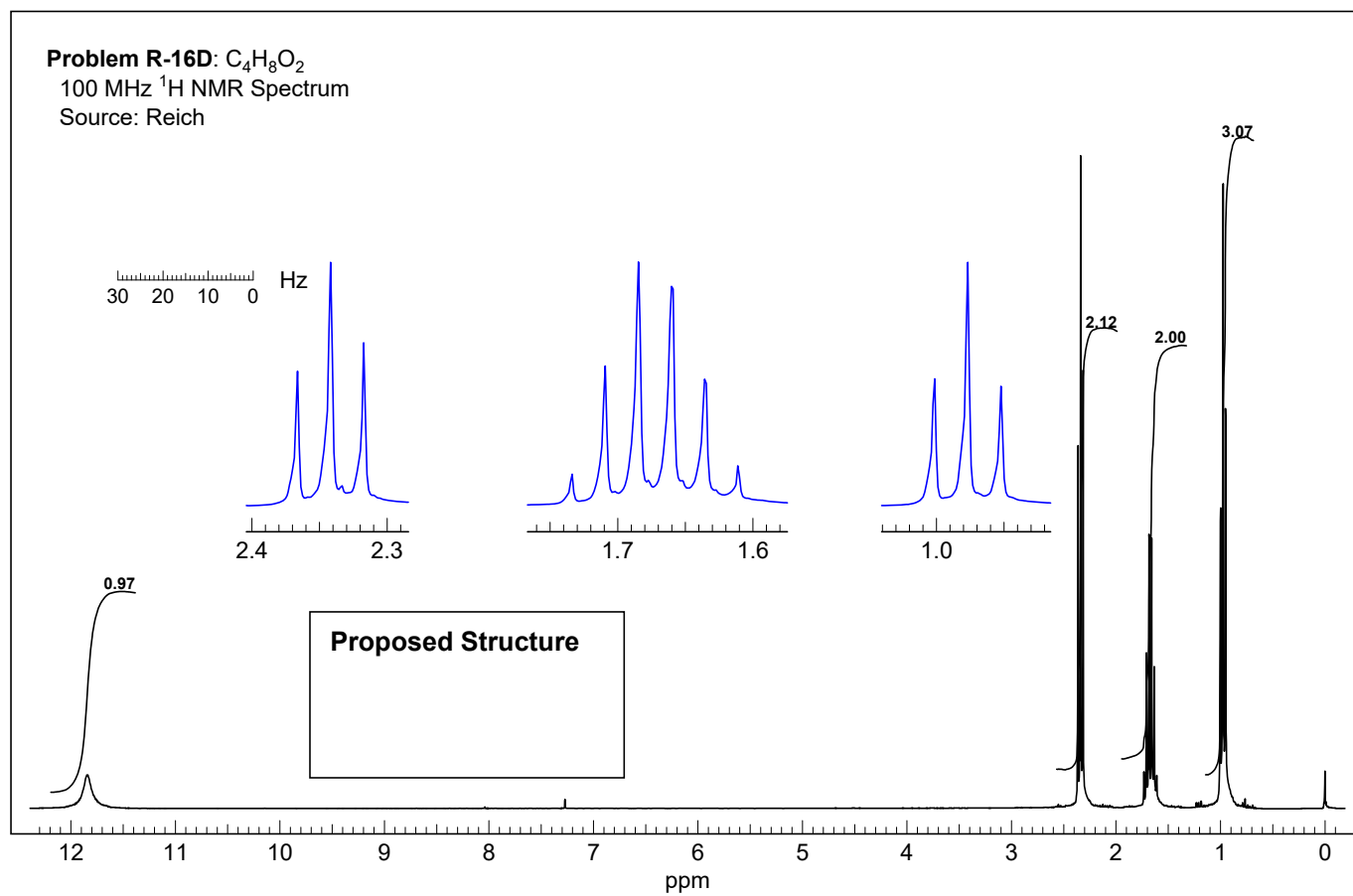
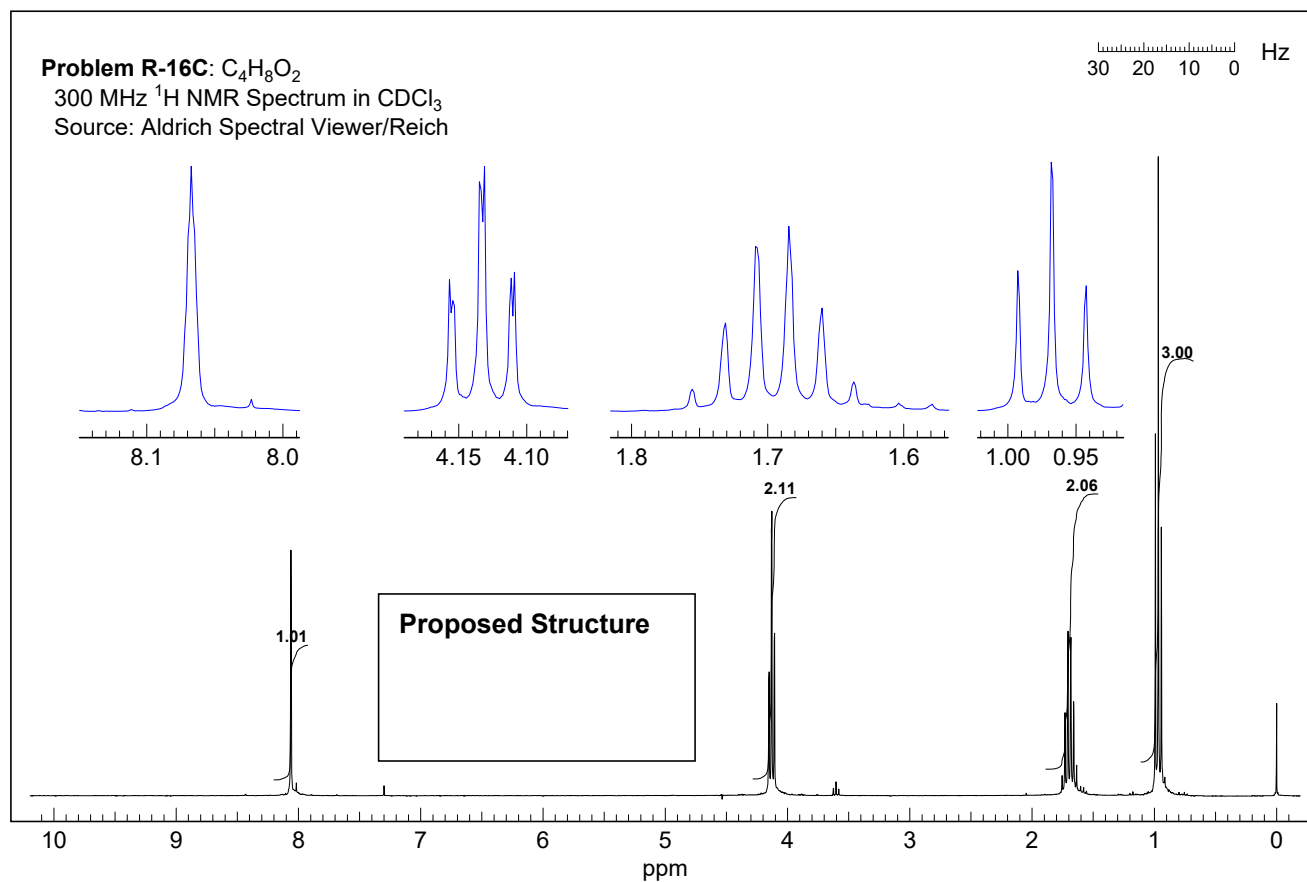
Problem R-16A: C₄H₈O₂
300 MHz ¹H NMR Spectrum in CDCl₃
Source: Aldrich Spectral Viewer/Reich



Problem R-16B: C₄H₈O₂
300 MHz ¹H NMR Spectrum in CDCl₃
Source: Aldrich Spectral Viewer/Reich

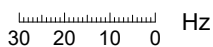
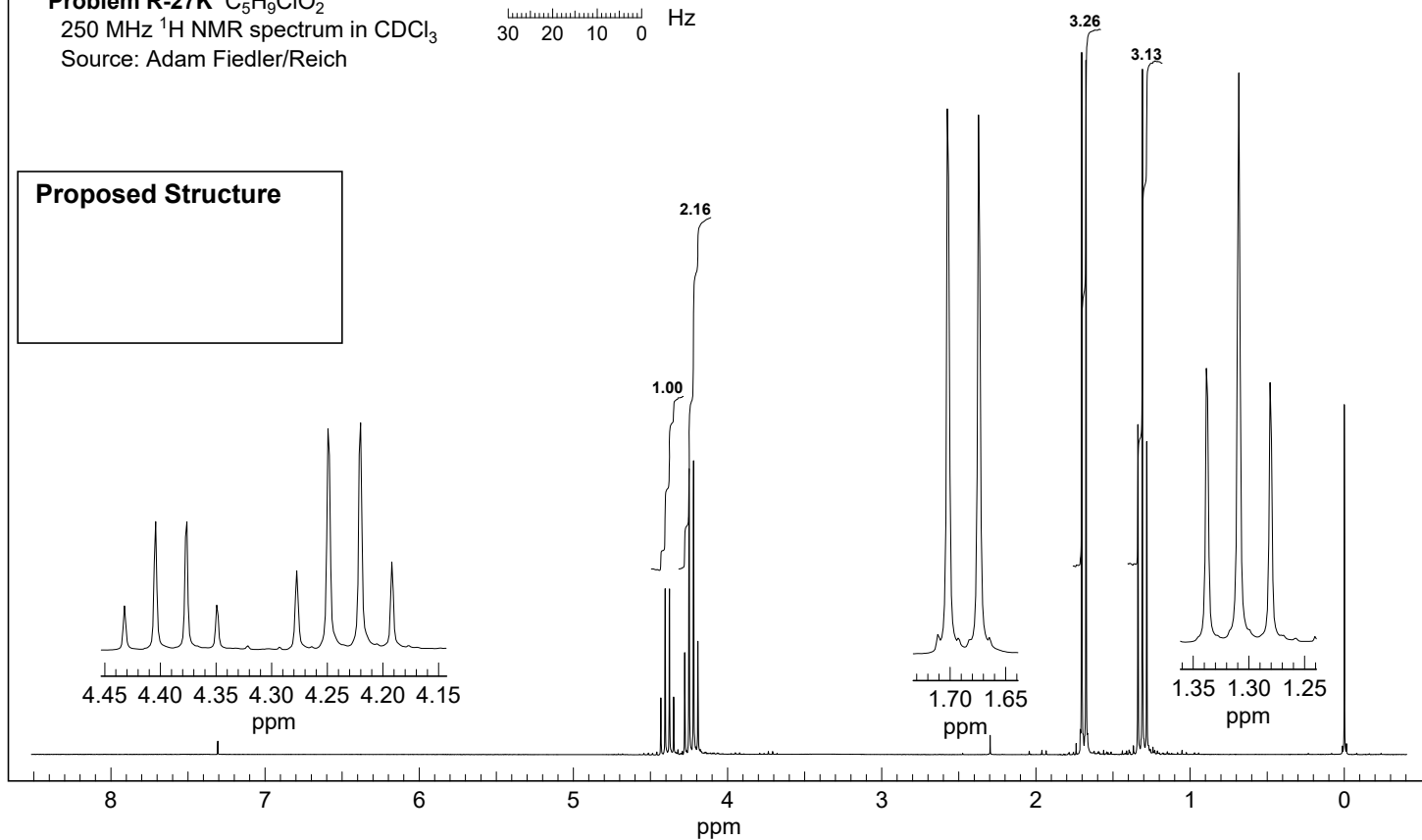
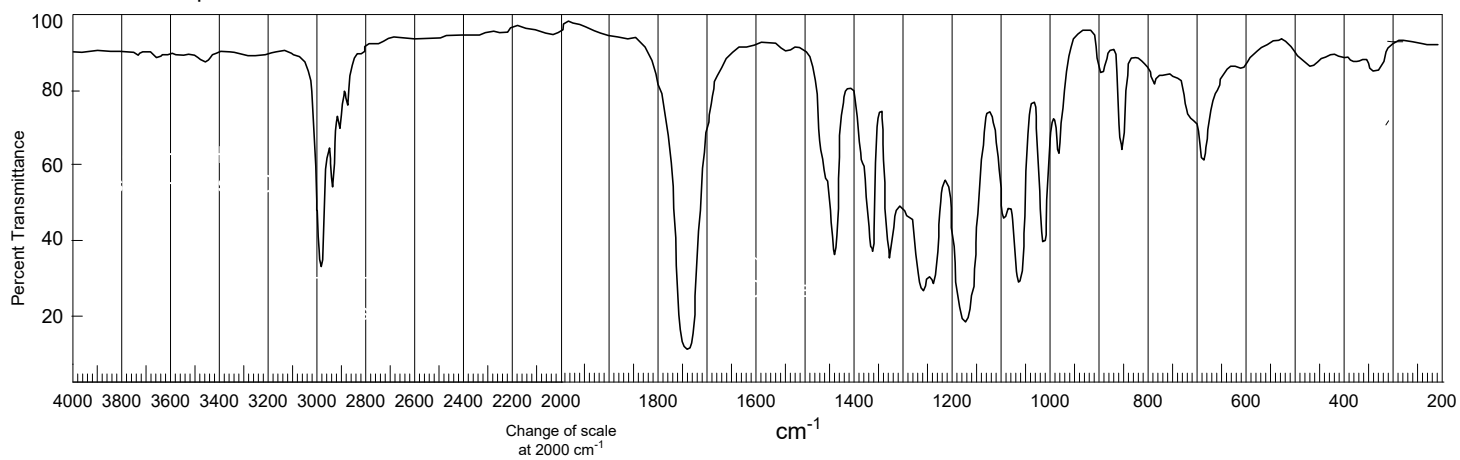


Two Isomers of C₄H₈O₂

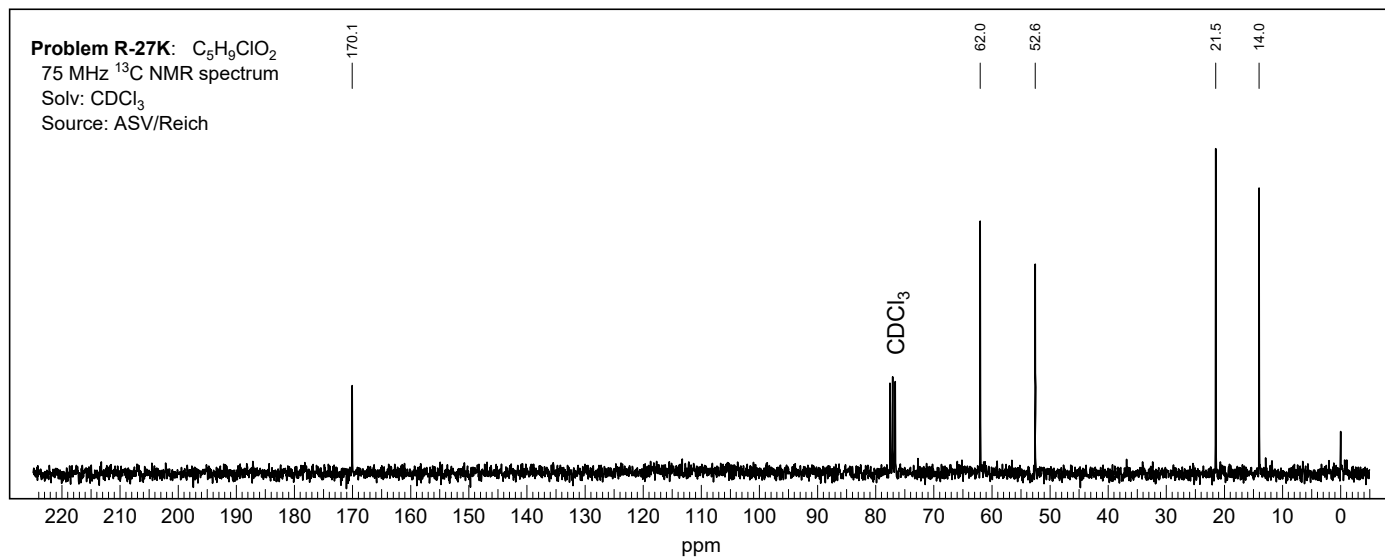


Problem R-27K $C_5H_9ClO_2$ 250 MHz 1H NMR spectrum in $CDCl_3$

Source: Adam Fiedler/Reich

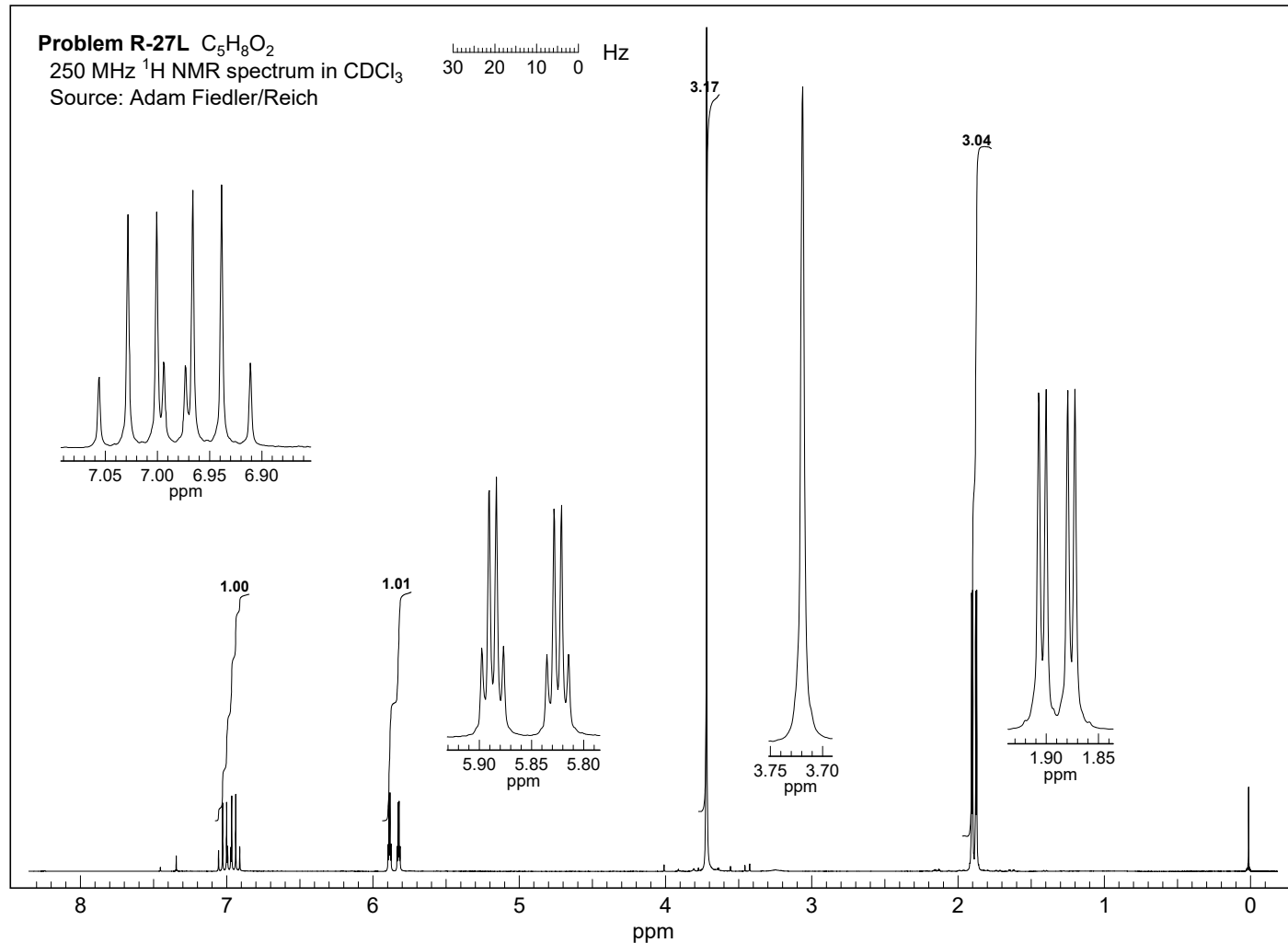
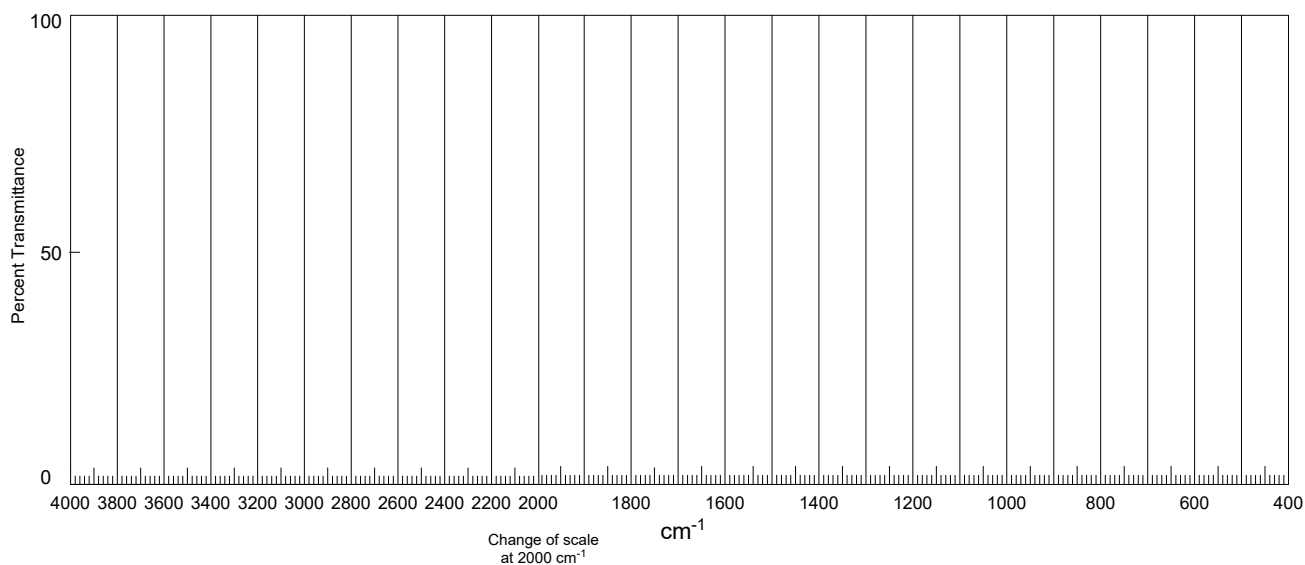
 Hz**Proposed Structure****Infrared Spectrum:****Problem R-27K:** $C_5H_9ClO_2$ 75 MHz ^{13}C NMR spectrumSolv: $CDCl_3$

Source: ASV/Reich



Problem R-27L $C_5H_8O_2$ 250 MHz 1H NMR spectrum in $CDCl_3$

Source: Adam Fiedler/Reich

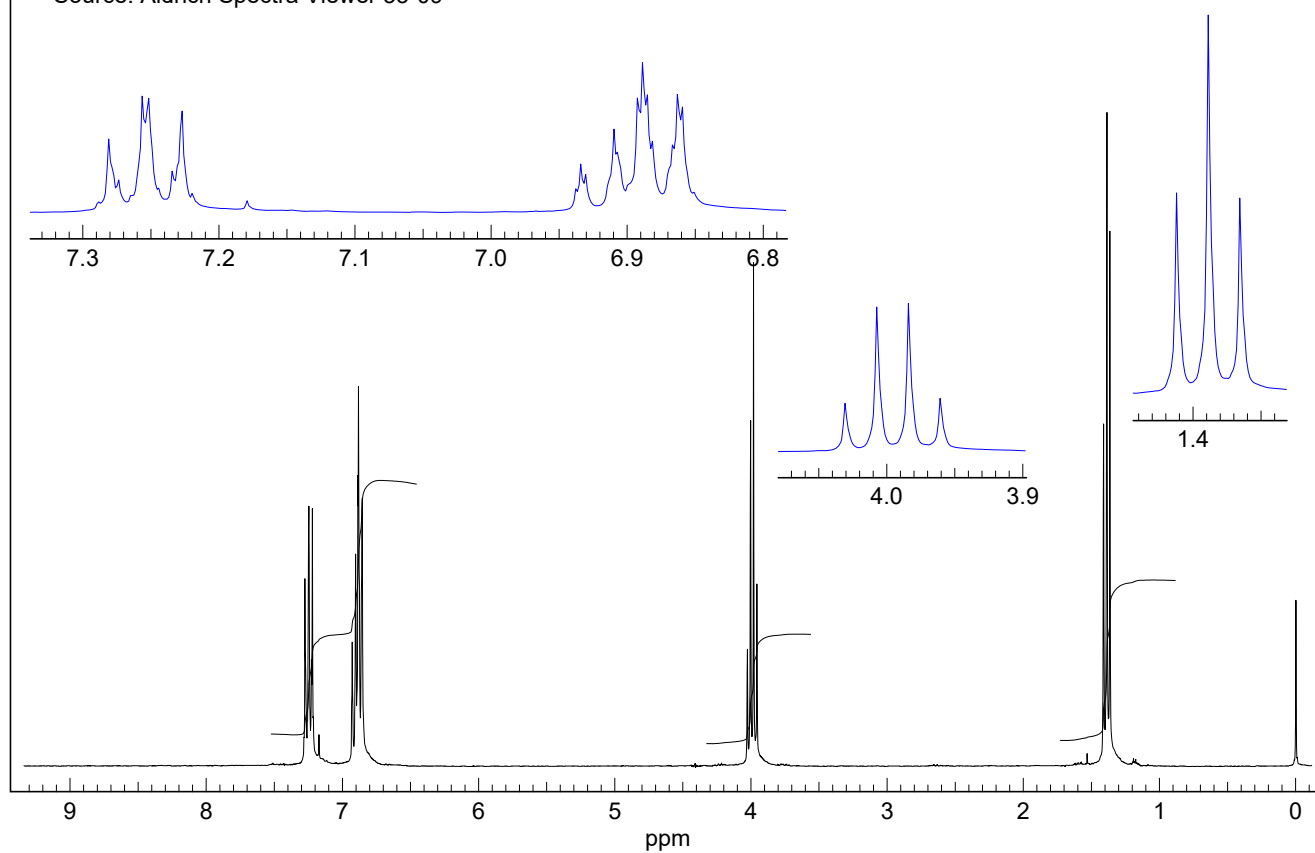
Infrared Spectrum (CCl_4 solution, Source: SDBS):

Problem R-27N $C_8H_{10}O$

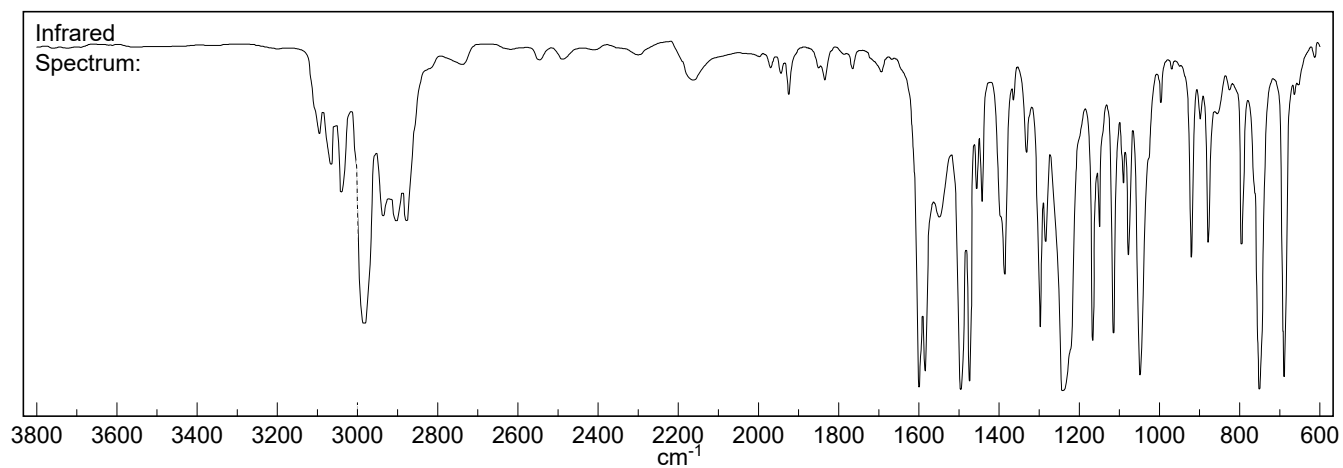
300 MHz 1H NMR spectrum in $CDCl_3$

Source: Aldrich Spectra Viewer 33-09

30 20 10 0 Hz



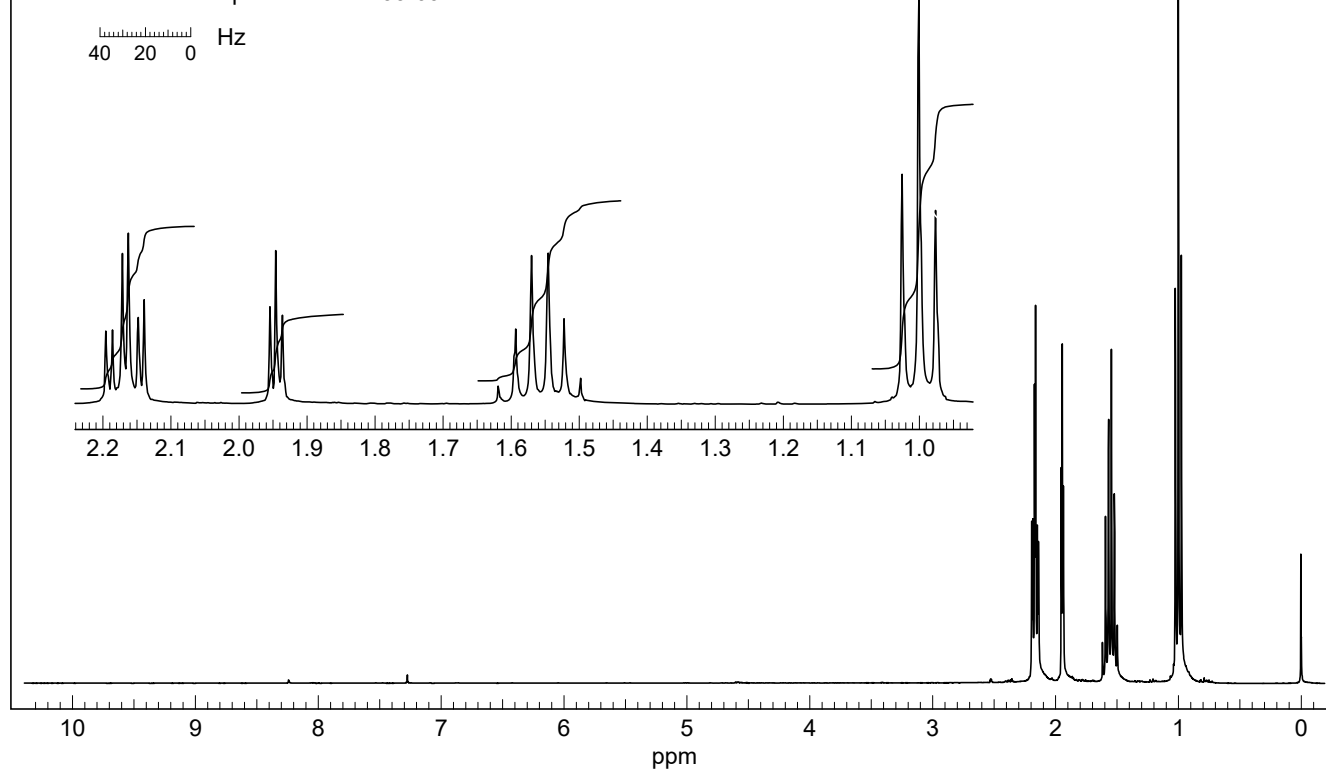
Infrared
Spectrum:



Problem R-270 C_5H_8

300 MHz 1H NMR spectrum in $CDCl_3$

Source: Aldrich Spectra Viewer 33-09

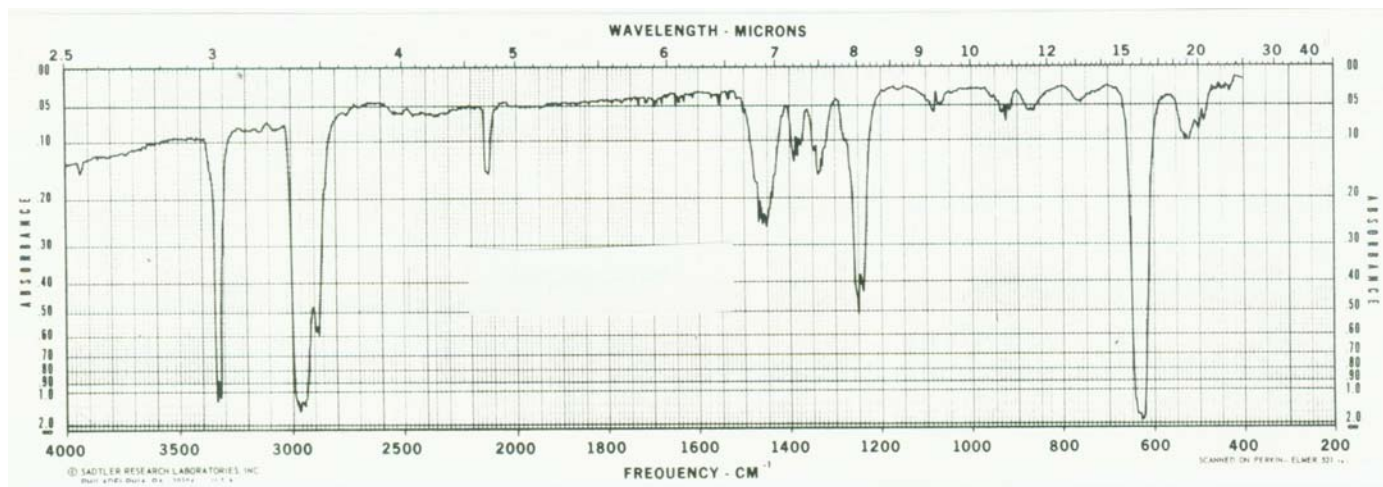
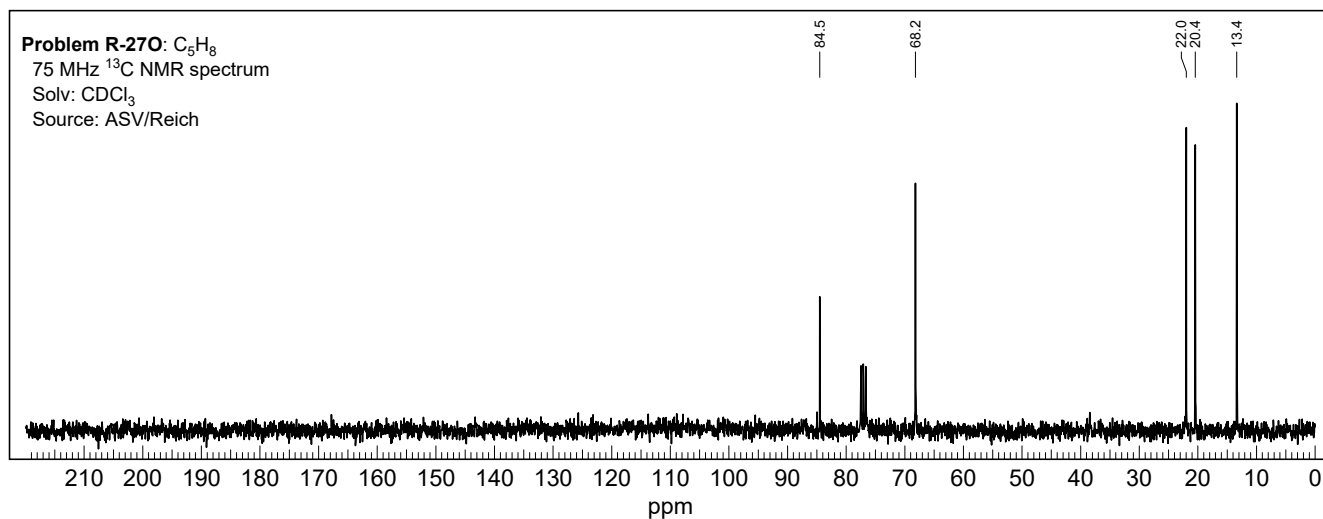


Problem R-270: C_5H_8

75 MHz ^{13}C NMR spectrum

Solv: $CDCl_3$

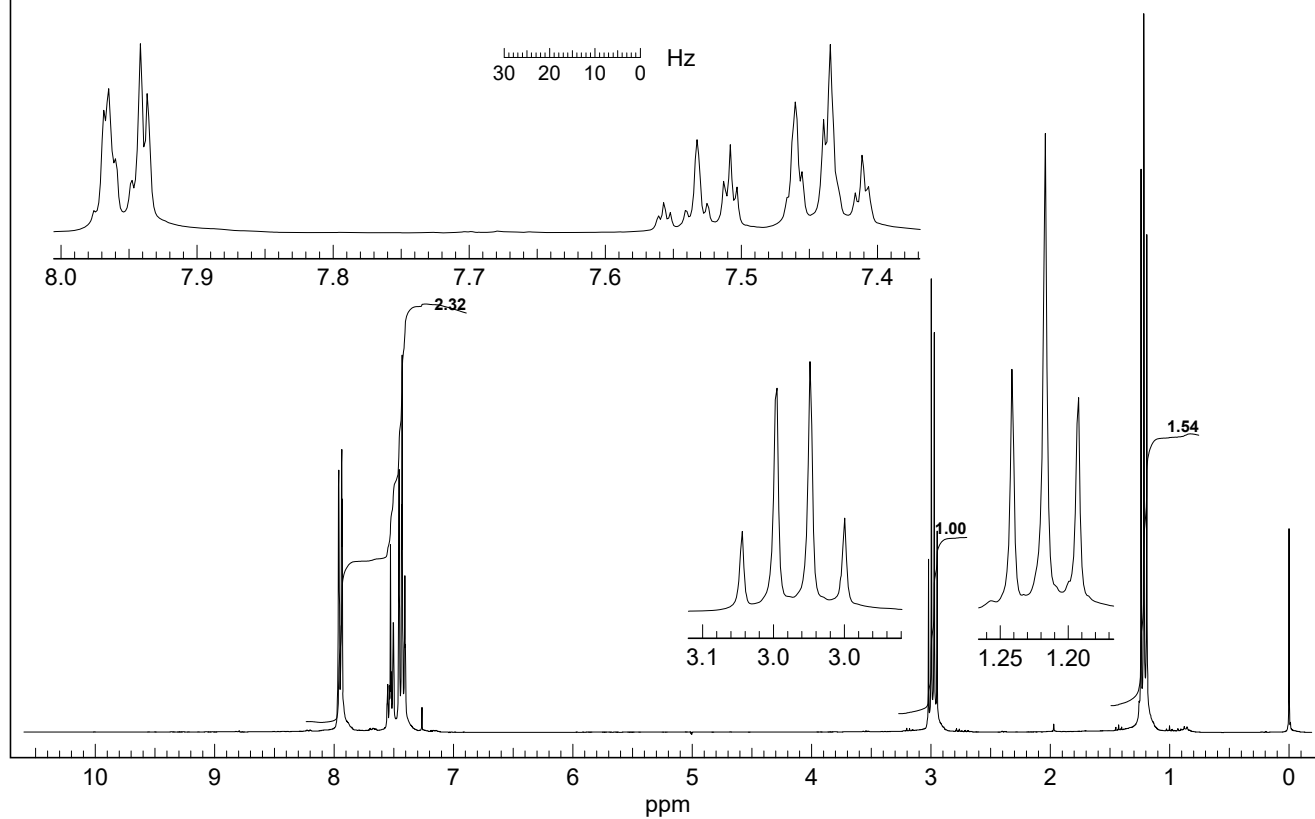
Source: ASV/Reich



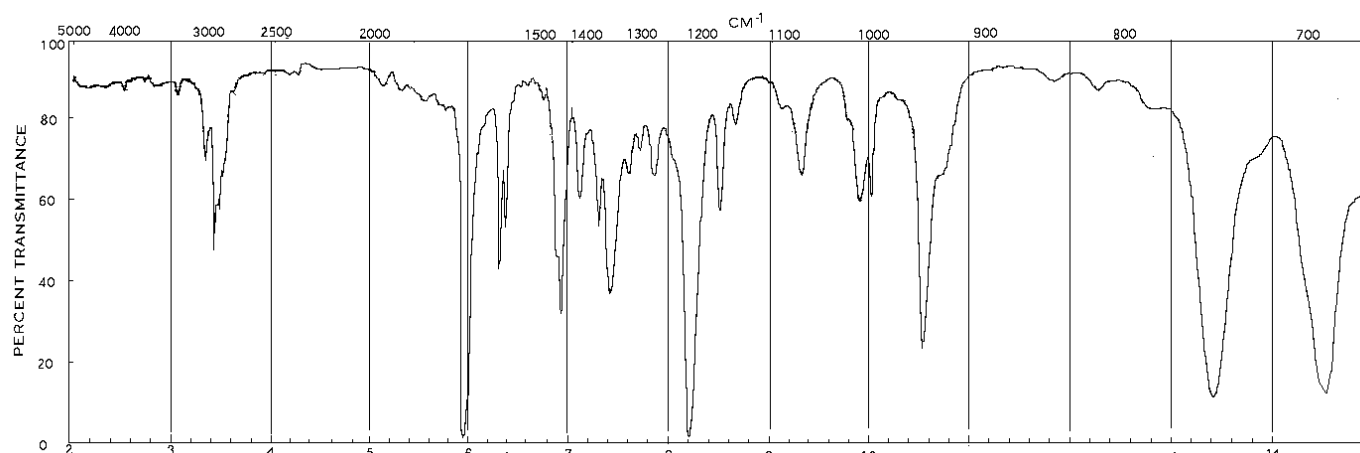
Problem R-27P $C_9H_{10}O$

300 MHz 1H NMR spectrum in $CDCl_3$

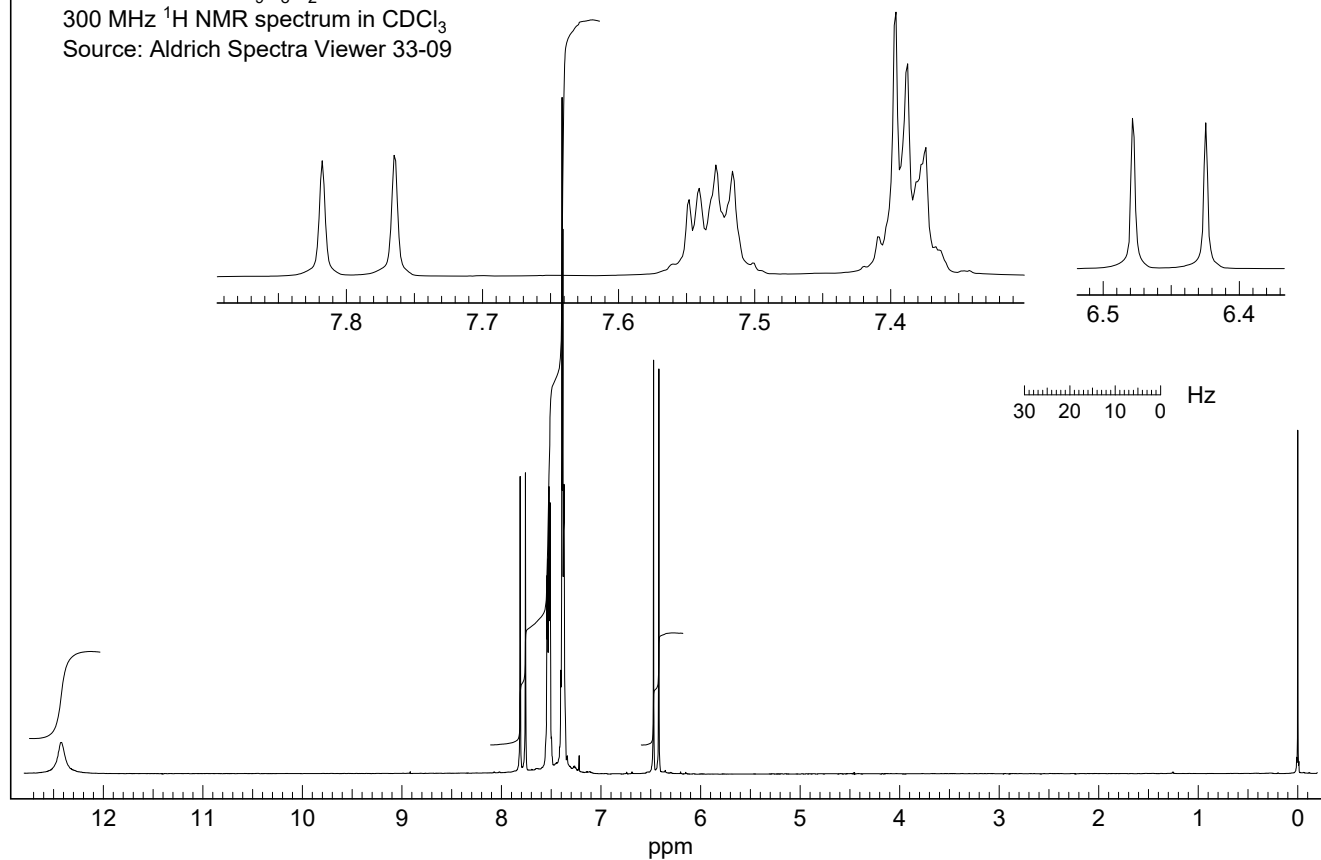
Source: Aldrich Spectra Viewer 33-09



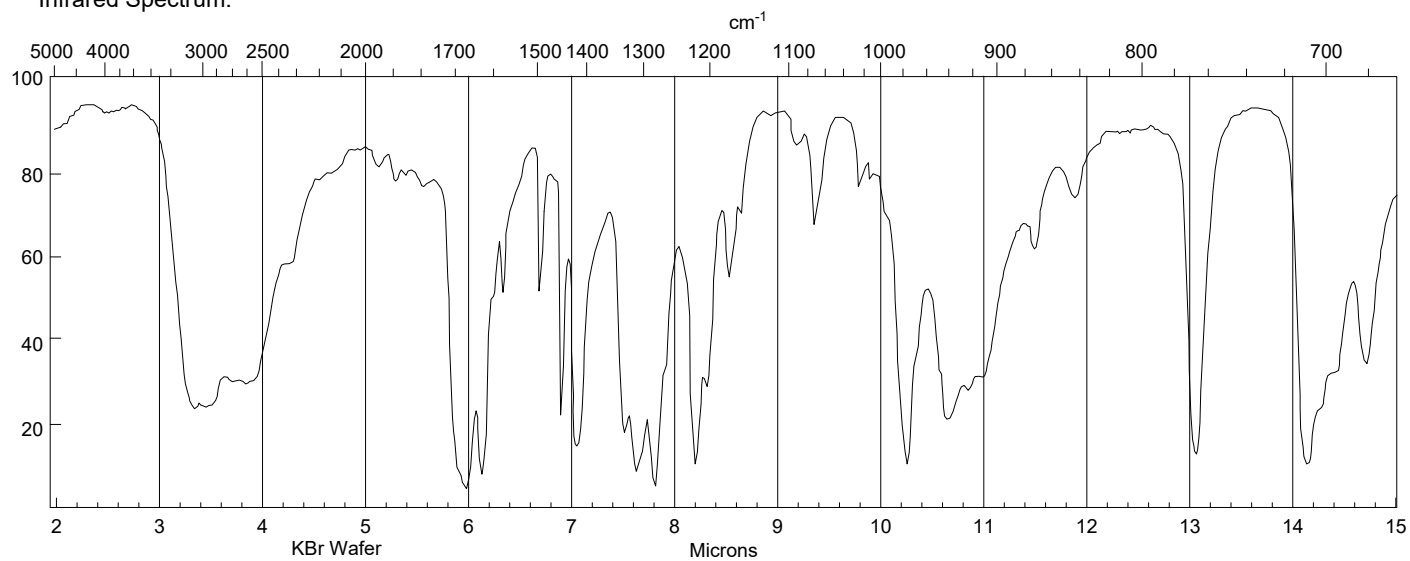
Infrared Spectrum:



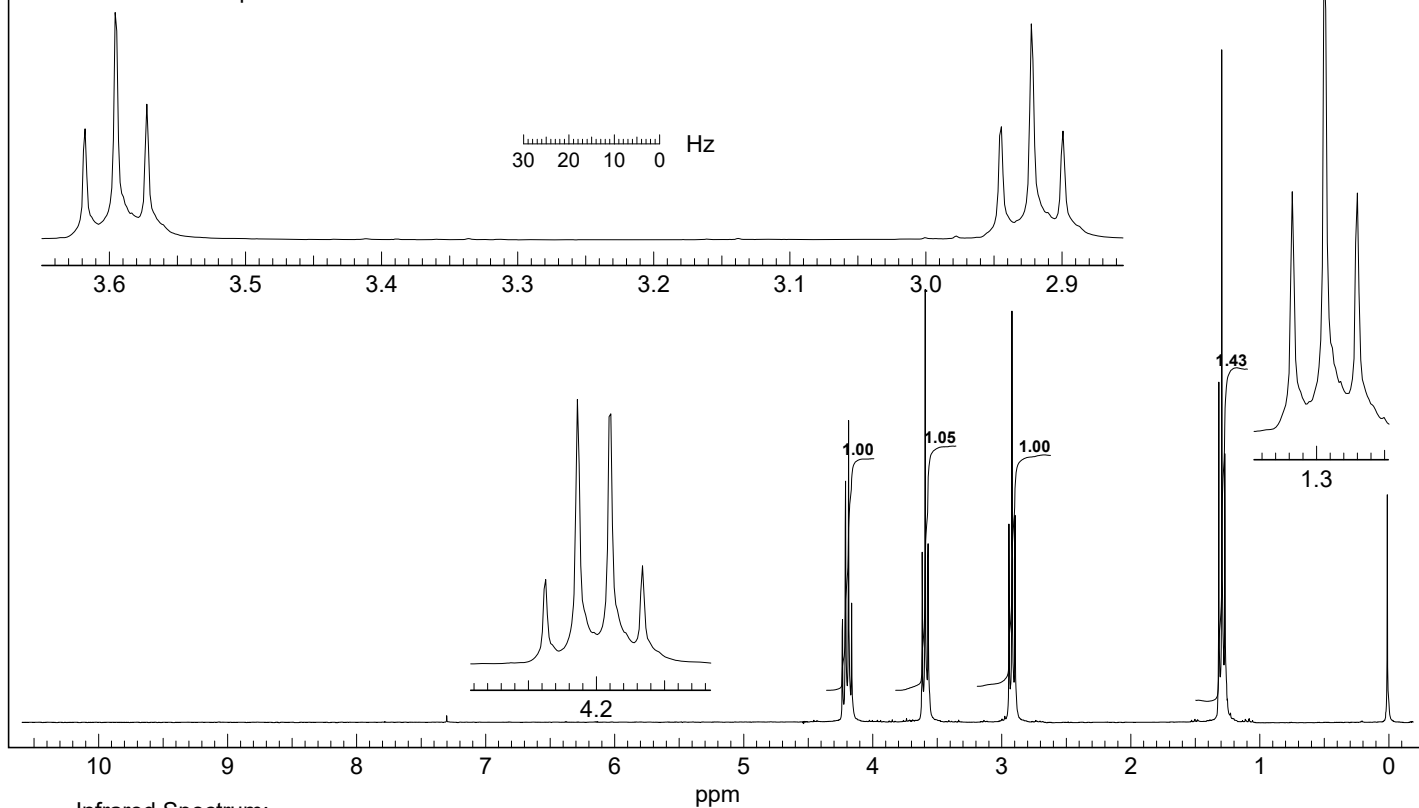
Problem R-27Q: $C_9H_8O_2$
300 MHz 1H NMR spectrum in $CDCl_3$
Source: Aldrich Spectra Viewer 33-09



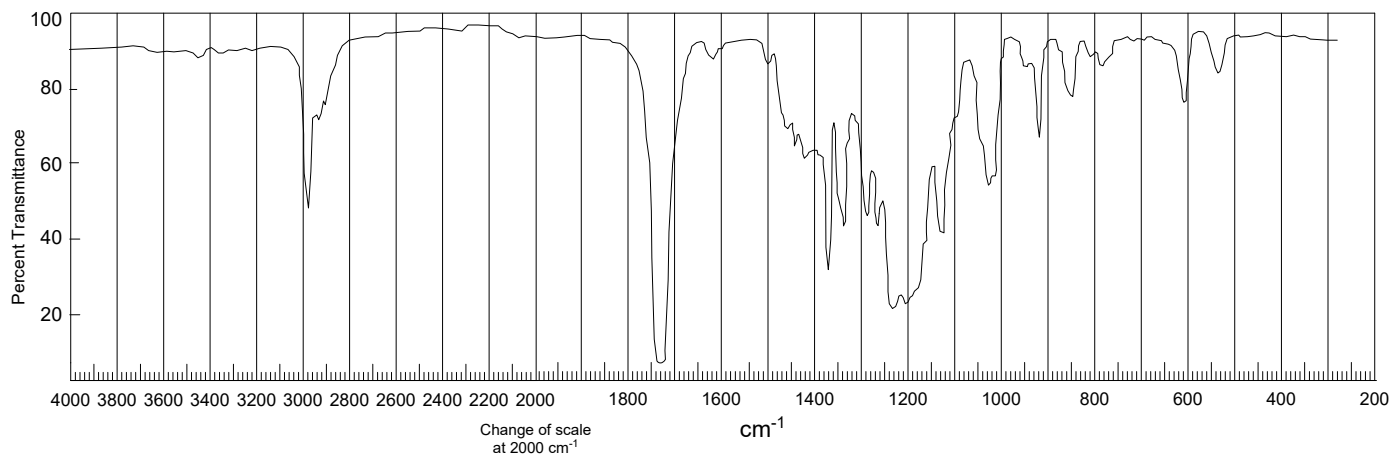
Infrared Spectrum:



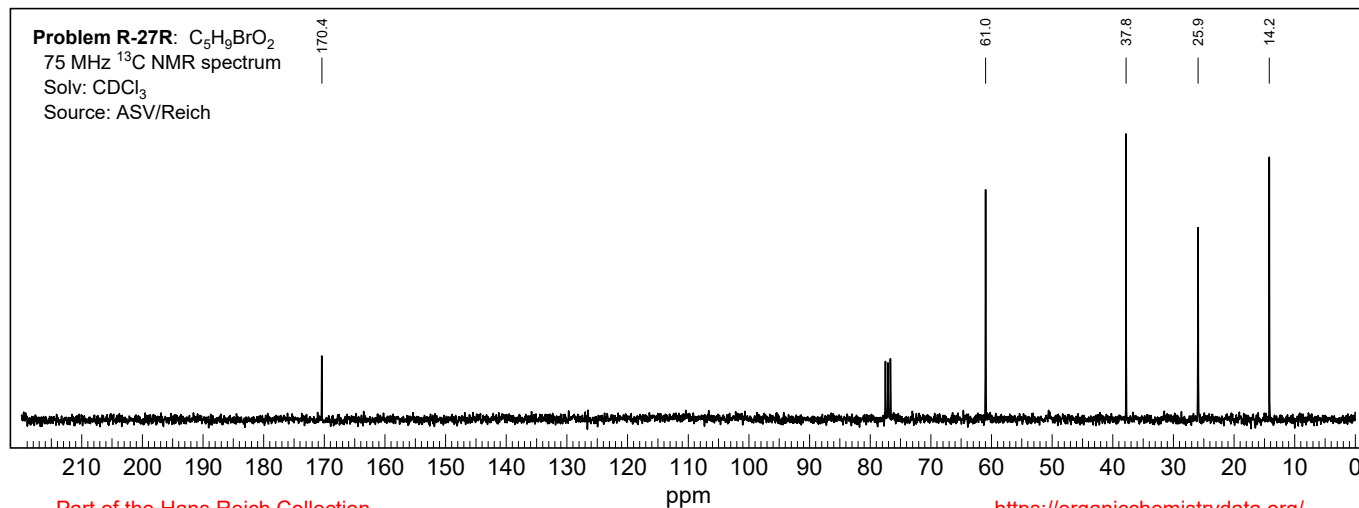
Problem R-27R: $C_5H_9BrO_2$
 300 MHz 1H NMR spectrum in $CDCl_3$
 Source: Aldrich Spectra Viewer 33-09



Infrared Spectrum:



Problem R-27R: $C_5H_9BrO_2$
 75 MHz ^{13}C NMR spectrum
 Solv: $CDCl_3$
 Source: ASV/Reich

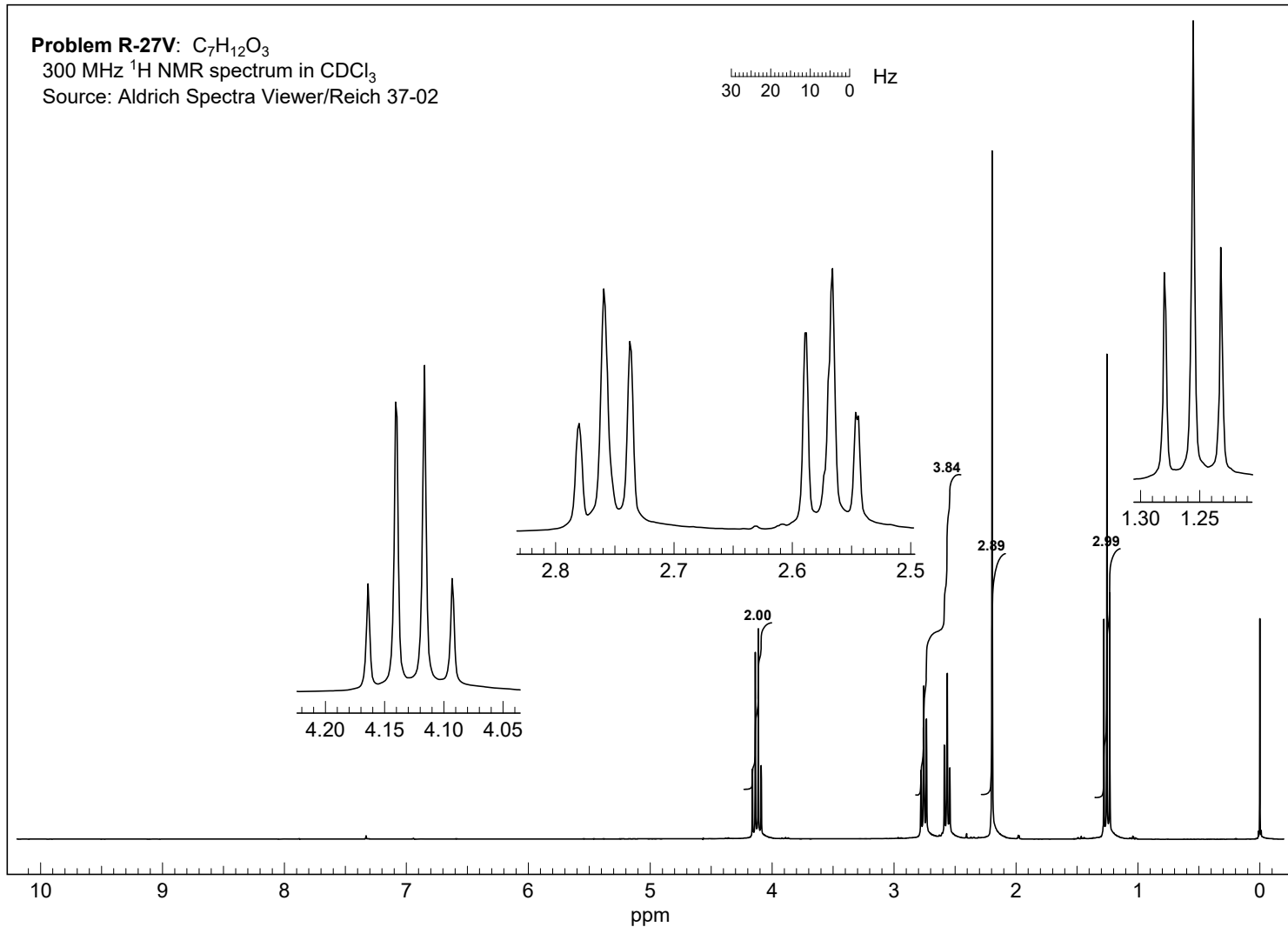


Problem R-27V: $C_7H_{12}O_3$

300 MHz 1H NMR spectrum in $CDCl_3$

Source: Aldrich Spectra Viewer/Reich 37-02

30 20 10 0 Hz



Problem R-27V: $C_7H_{12}O_3$

75 MHz ^{13}C NMR spectrum

Solv: $CDCl_3$

Source: ASV/Reich

