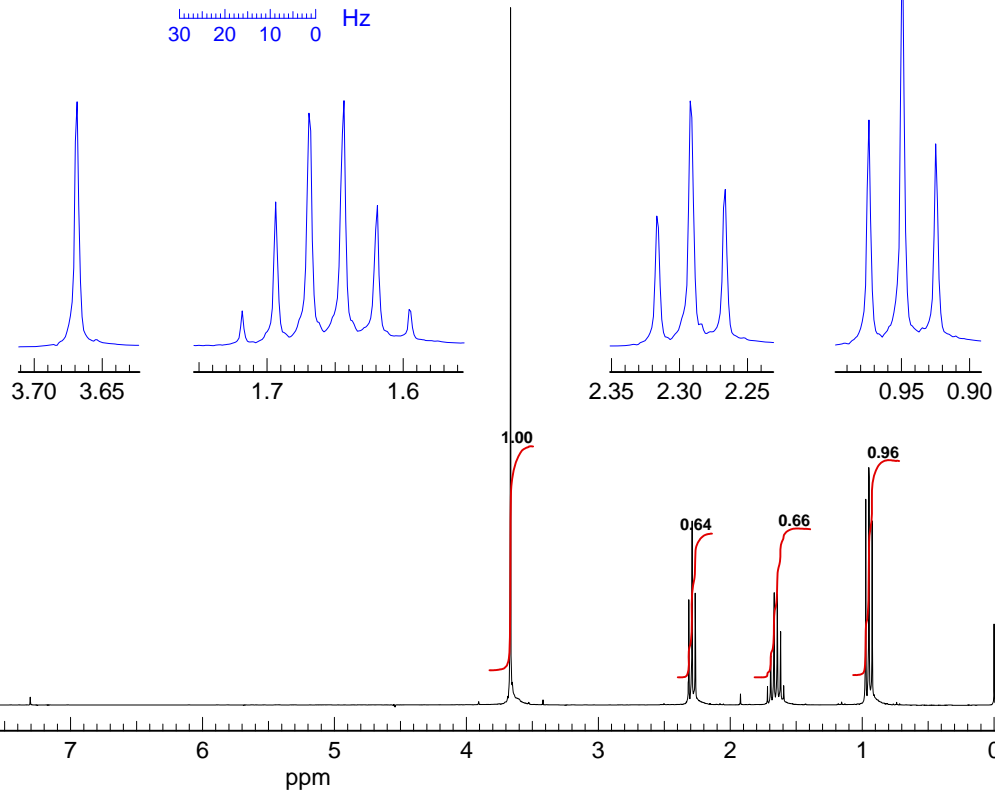
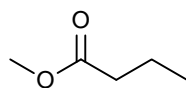


**Problem R-18R2** (C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>)

300 MHz <sup>1</sup>H NMR Spectrum in CDCl<sub>3</sub>

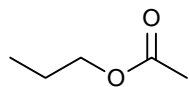
Source: Aldrich Spectra Collection/Reich g



# Problem Set 1 - NMR Spectra

Reich  
Chem 345

**Problem R-18R1:**  $C_5H_{10}O_2$   
300 MHz  $^1H$  NMR Spectrum in  $CDCl_3$   
Source: Aldrich Spectra Collection/Reich g

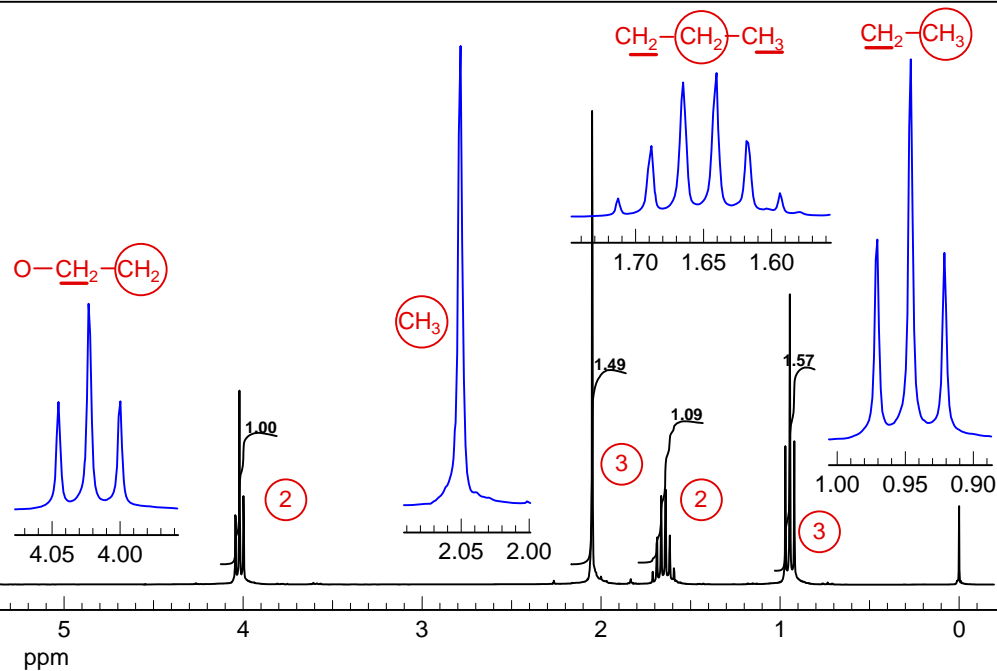


Propyl acetate

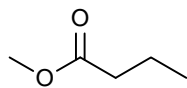
IHD = 1

30 20 10 0 Hz

Observed protons are circled  
protons causing splitting are underlined



**Problem R-18R2:**  $C_5H_{10}O_2$   
300 MHz  $^1H$  NMR Spectrum in  $CDCl_3$   
Source: Aldrich Spectra Collection/Reich g



methyl butyrate

IHD = 1

30 20 10 0 Hz

