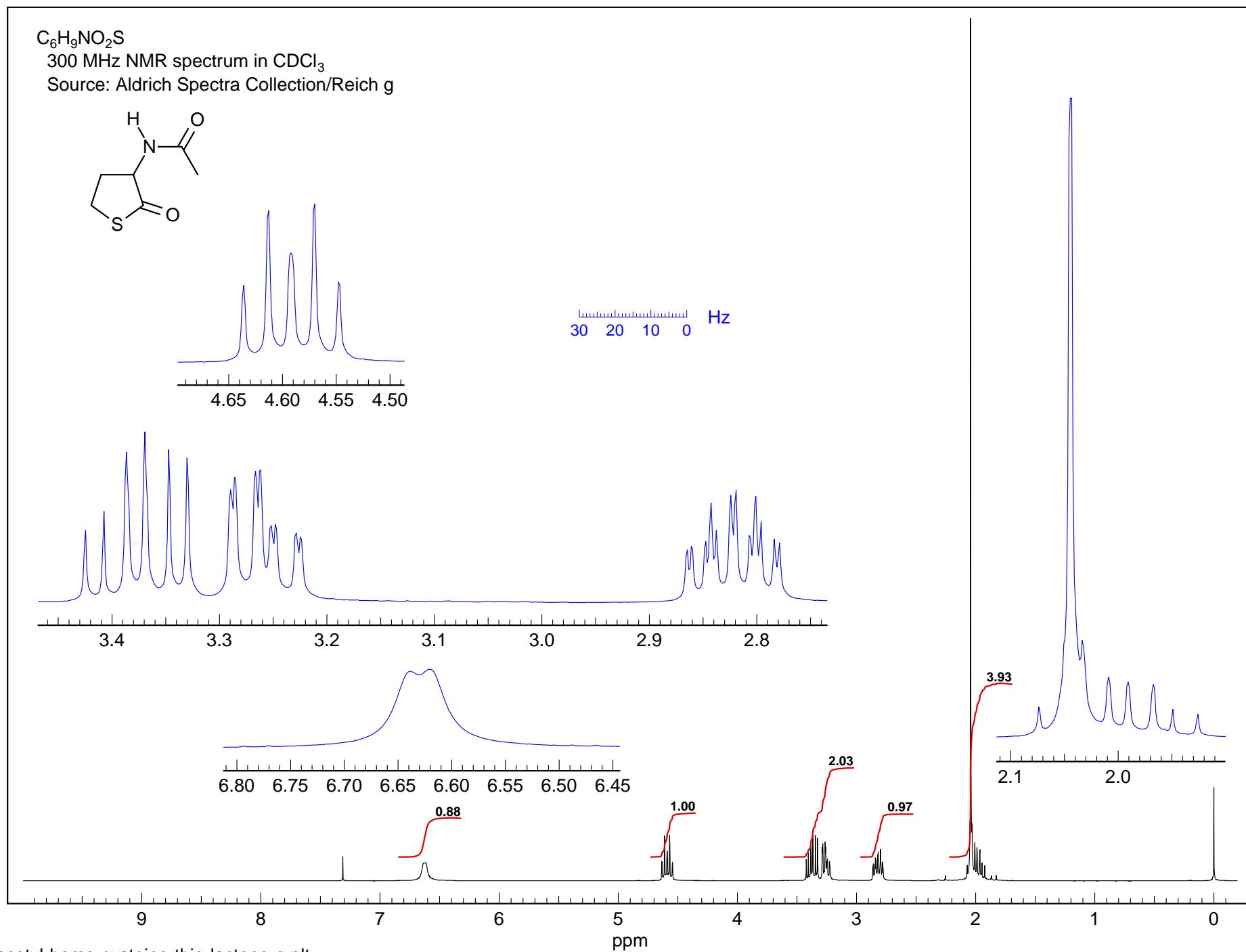


Exercise: Assign protons and analyze coupling

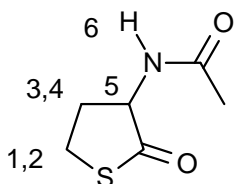


Exercise: Assign protons and analyze coupling

$C_6H_9NO_2S$

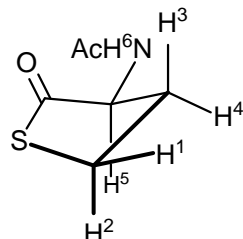
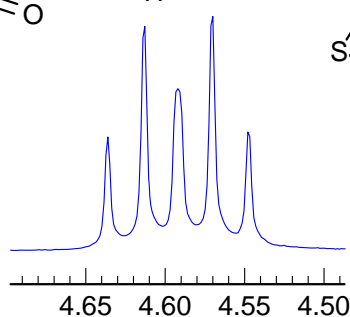
300 MHz NMR Spectrum in $CDCl_3$

Source: Aldrich Spectra Collection/Reich g



$J = 12, 7, 7$

H^5 dt



$J = 12, 7, 1.5$

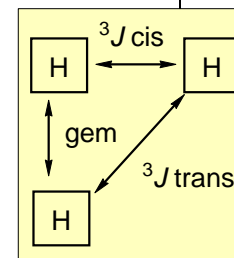
$J = 12.5, 12.6, 12.5, 7$

$J = 12, 12, 5$

$J = 12.5, 7, 5, 1.5$

$J = 12, 7, 7$

The only small 3J is the *trans* coupling between H^1 and H^4

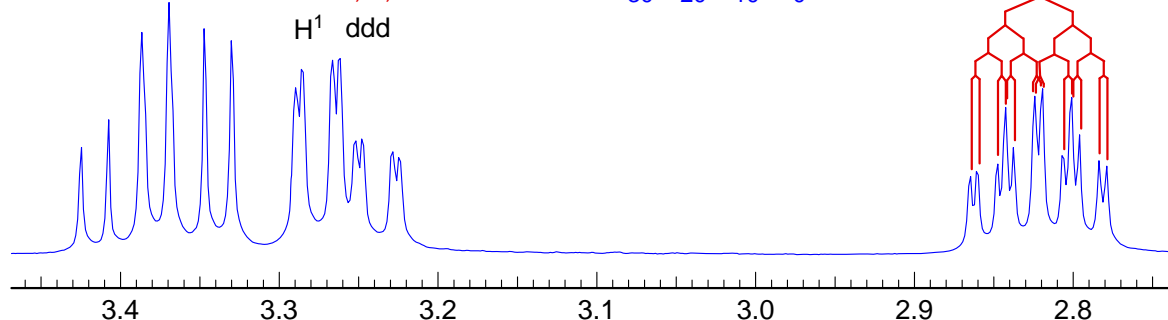


$J = 12, 12, 5$

H^2 td

$J = 12, 7, 1.5$

H^1 ddd



$J = 12.5, 7, 5, 1.5$

H^4 dddd

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