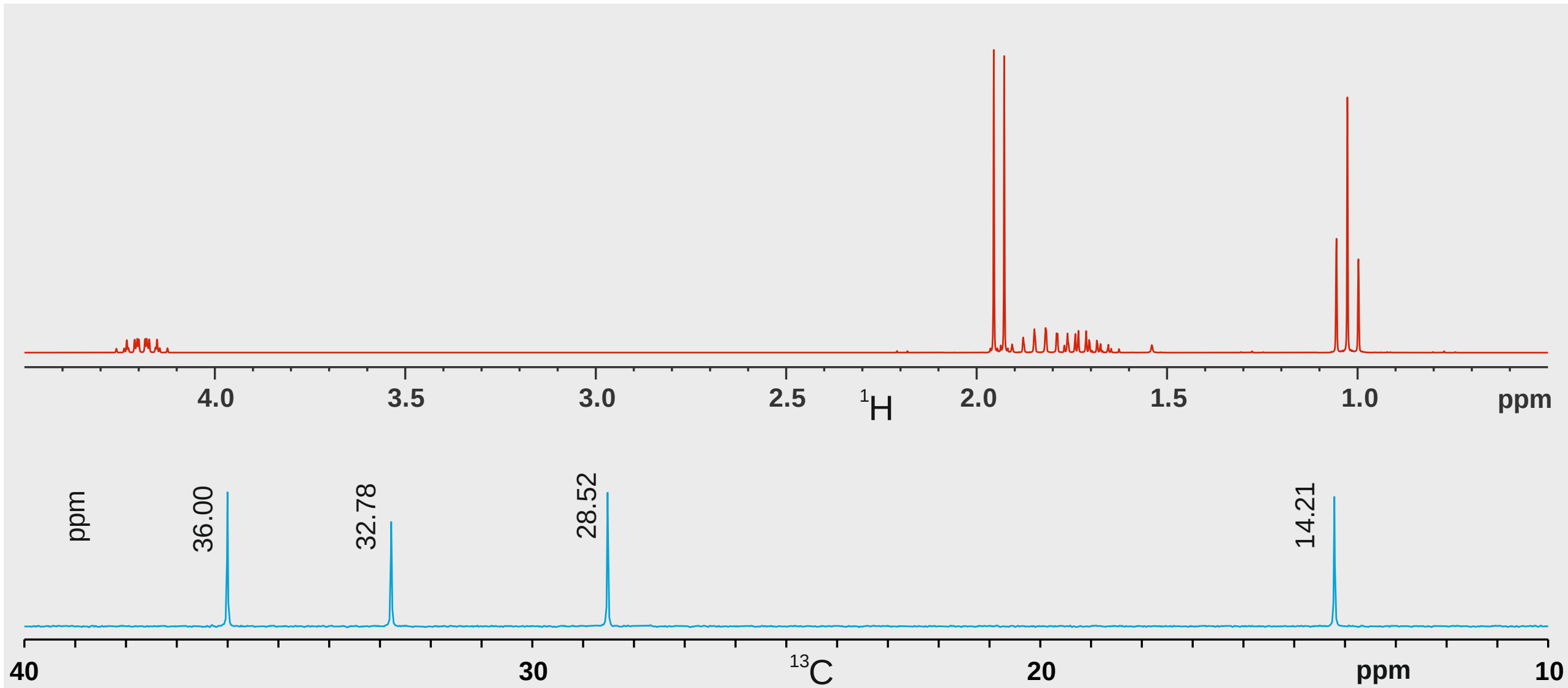


Exercise plus Solution – Quick overview

It is recommended to use this version only for a quick overview of the NMR challenge. All animations of the PowerPoint version are missing, under certain circumstances quality deficiencies may also occur.

The higher quality PowerPoint files are freely available for download at any time.

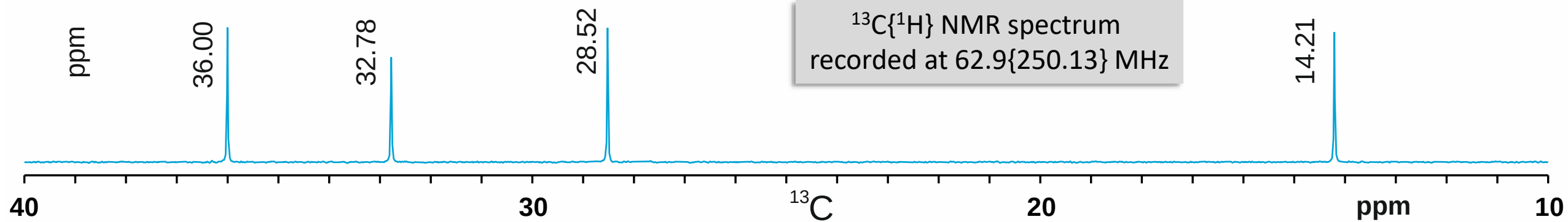
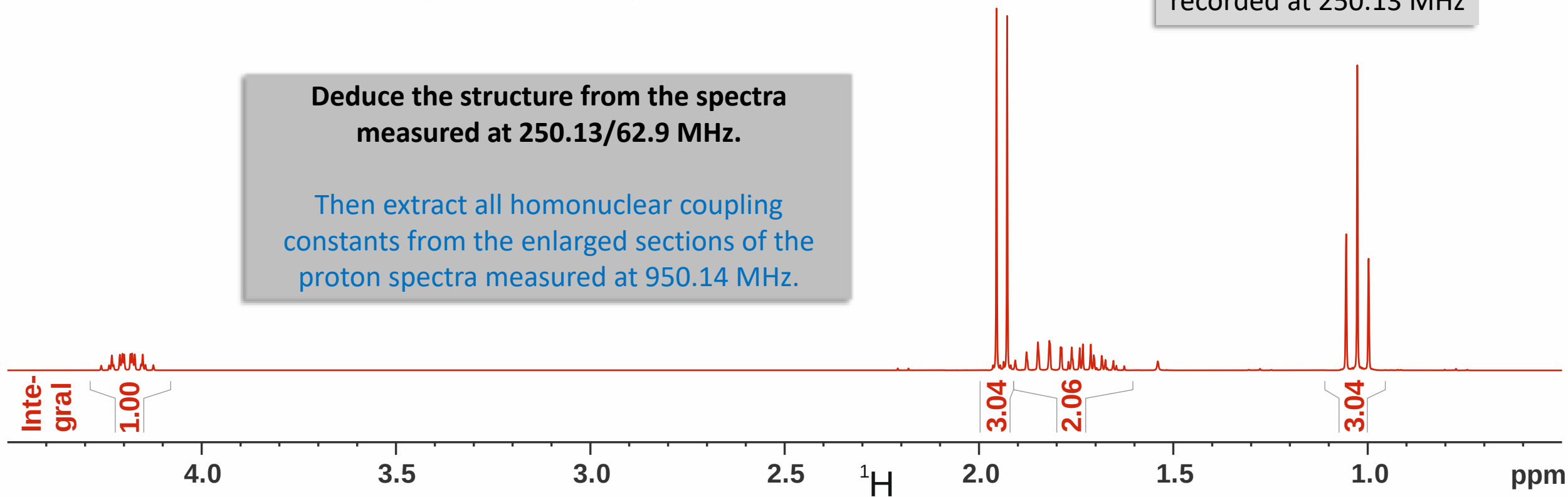




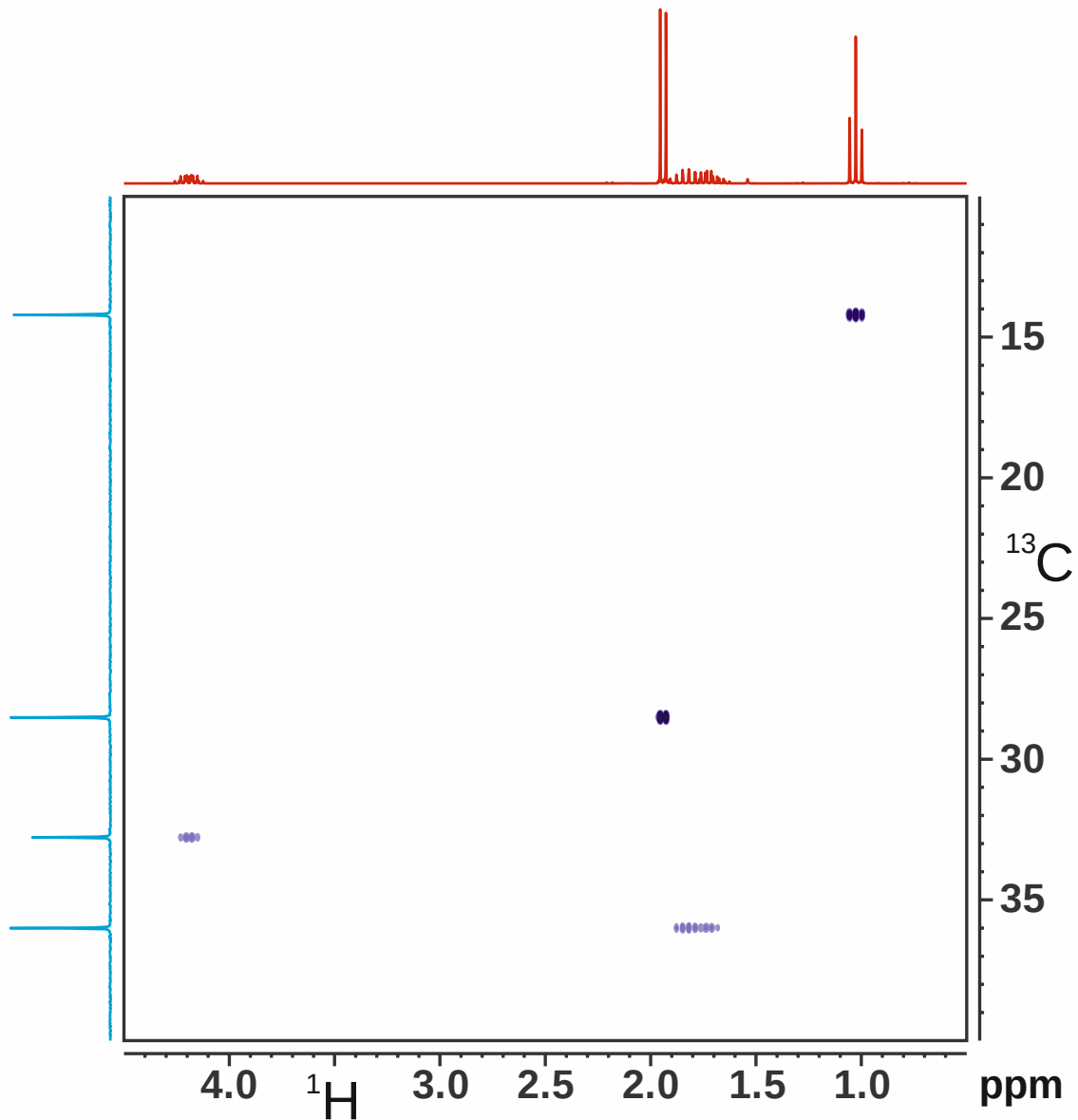
^1H NMR spectrum
recorded at 250.13 MHz

Deduce the structure from the spectra
measured at 250.13/62.9 MHz.

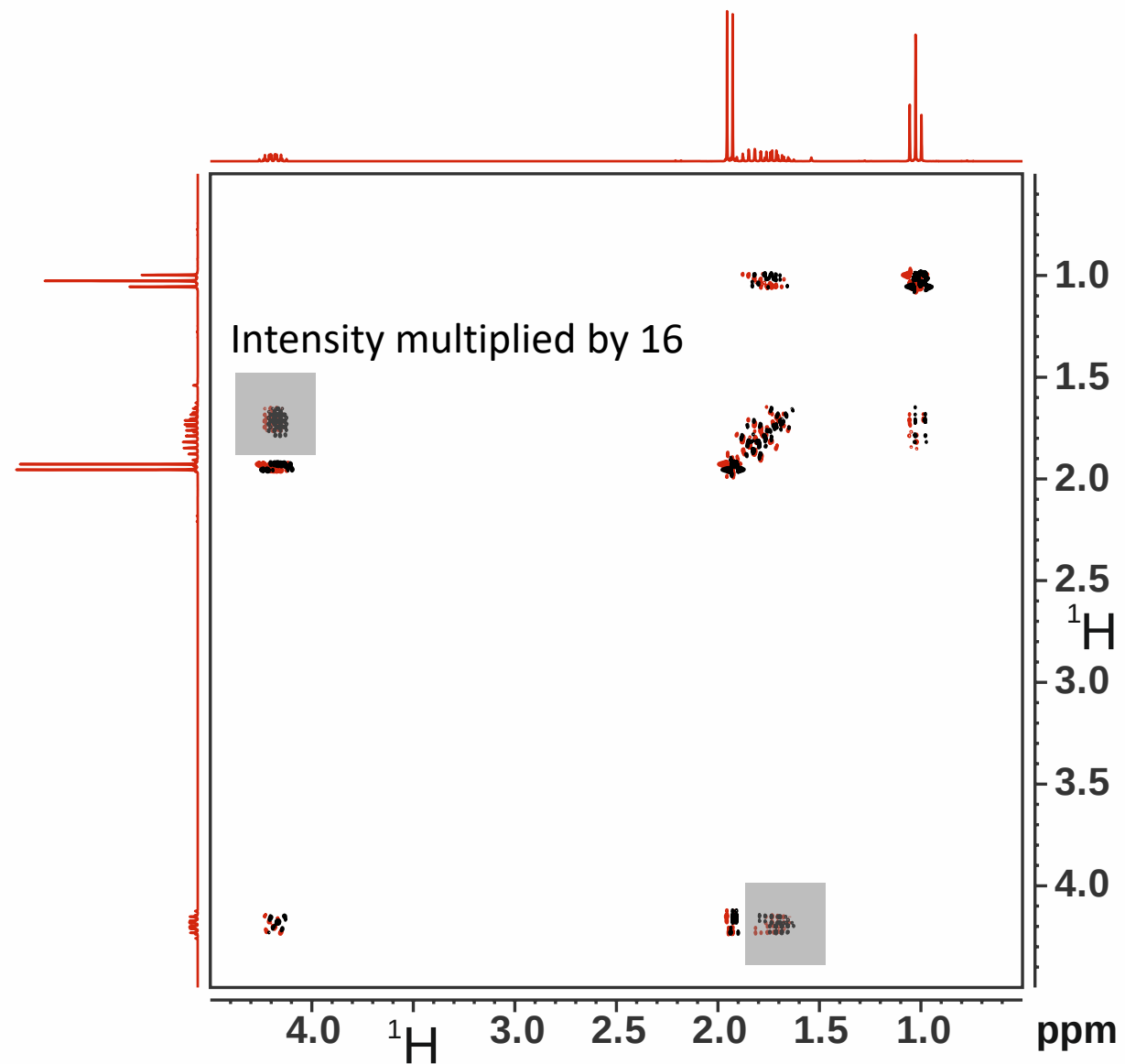
Then extract all homonuclear coupling
constants from the enlarged sections of the
proton spectra measured at 950.14 MHz.



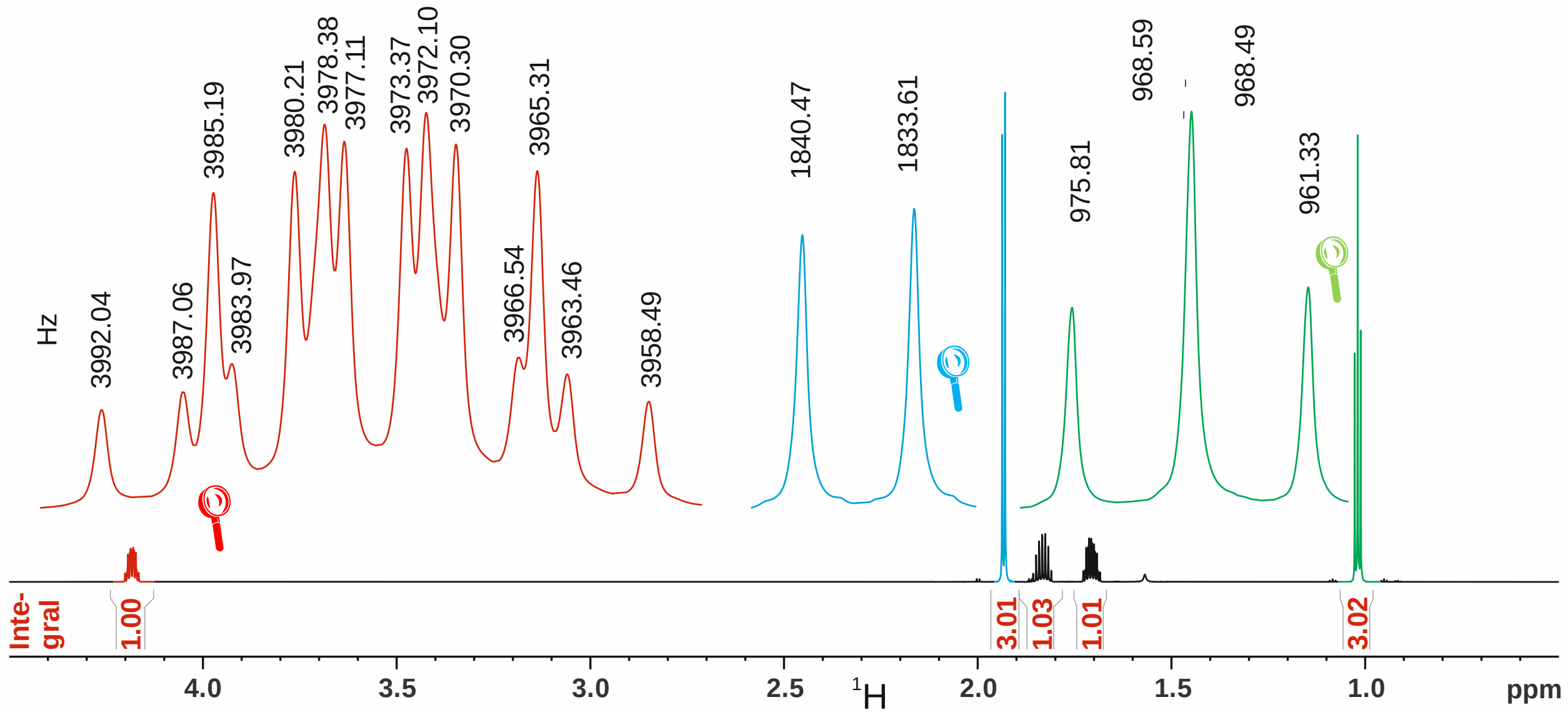
$^1\text{H}/^{13}\text{C}$ HSQC
recorded at 250.13/62.9 MHz

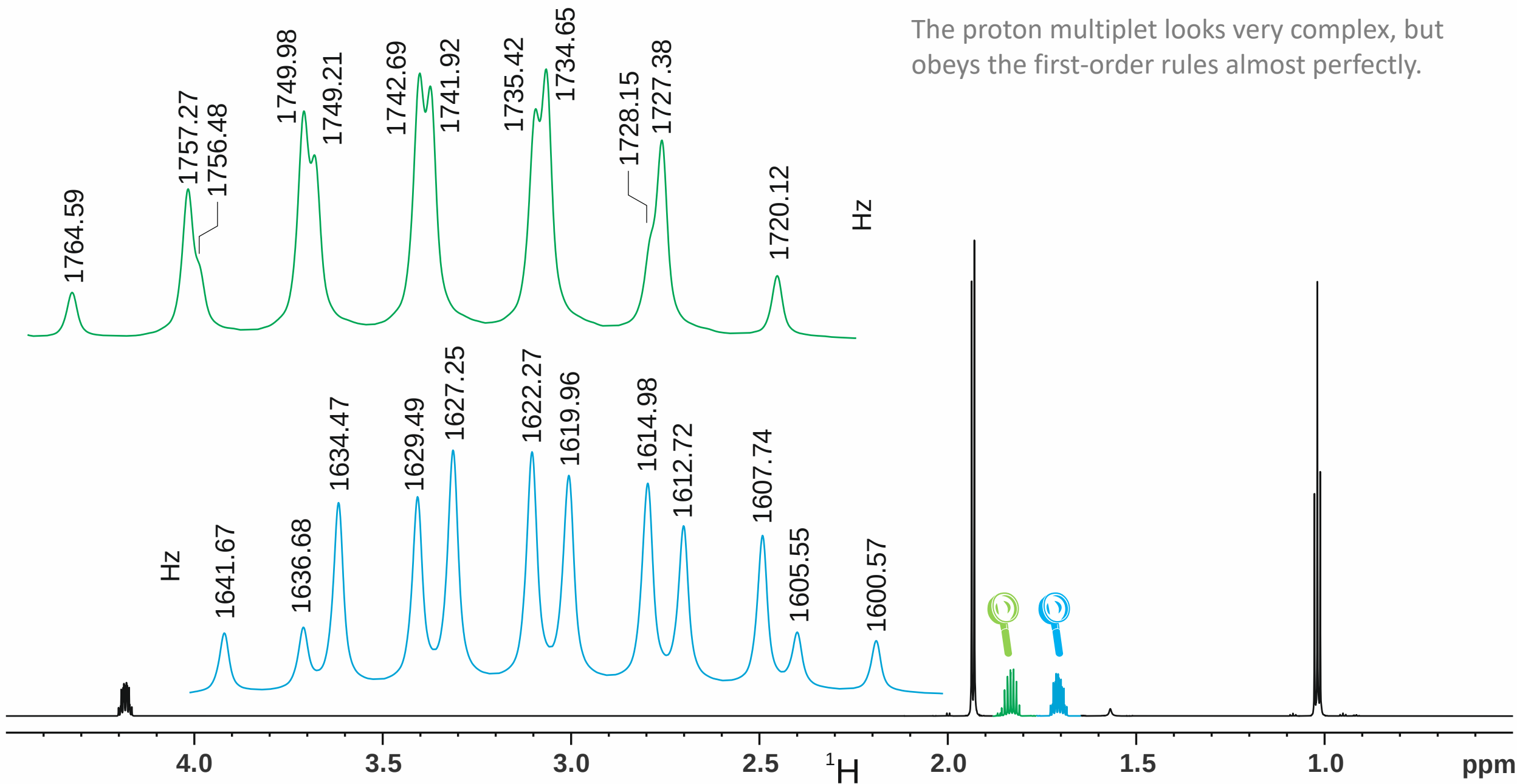


$^1\text{H}/^1\text{H}$ COSY
recorded at 250.13 MHz



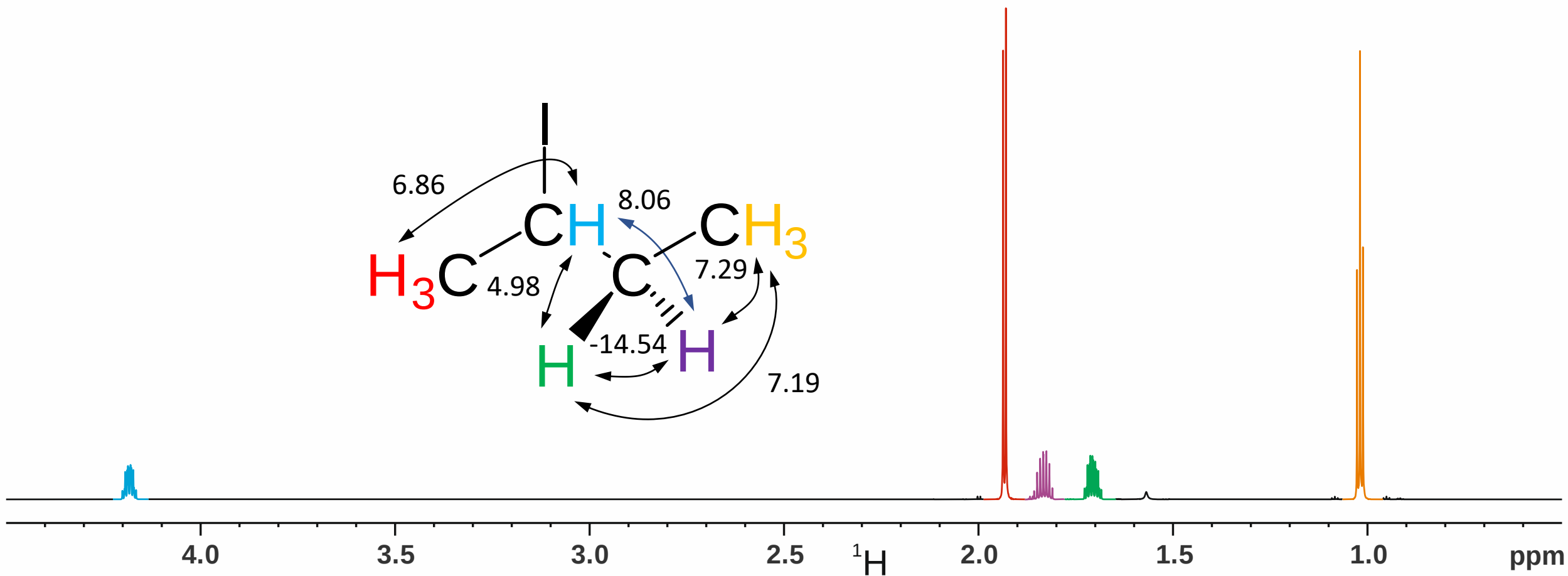
¹H NMR spectrum
recorded at 950.13 MHz





Solution at a glance

As soon as you see the green footprints on the problem icon, the step-by-step-solution is available



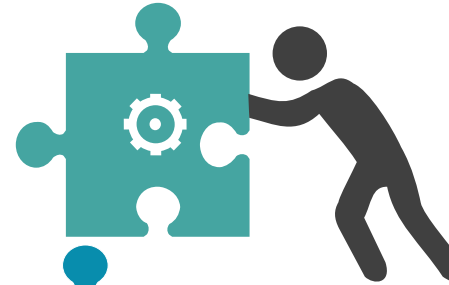
Contributions

Spectrometer time

TU Munich



Measurements



Rainer Haeßner

Discussions and
native English
language support



Alan Kenwright

Compilation



Rainer Haeßner

[More exercises ...](#)