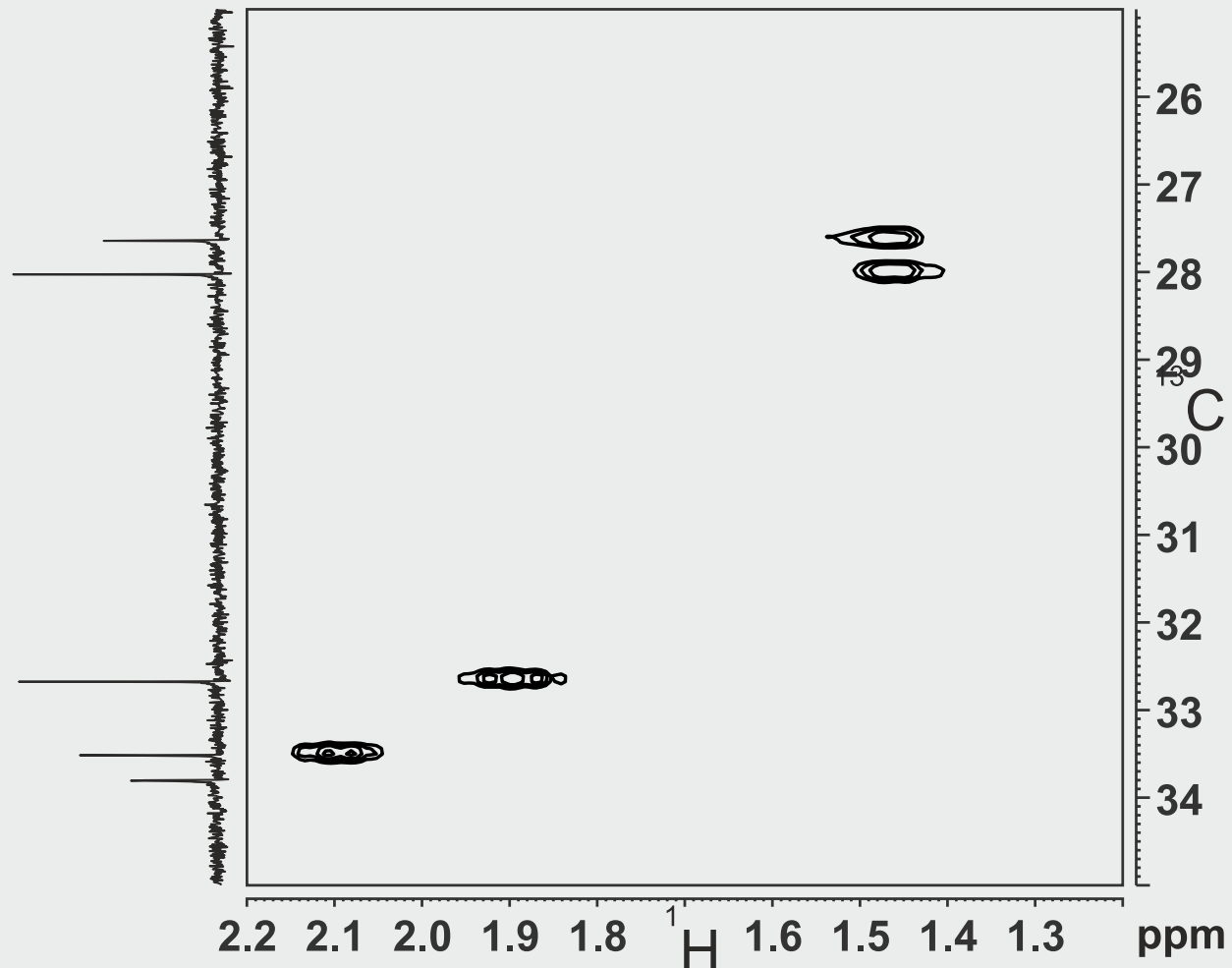
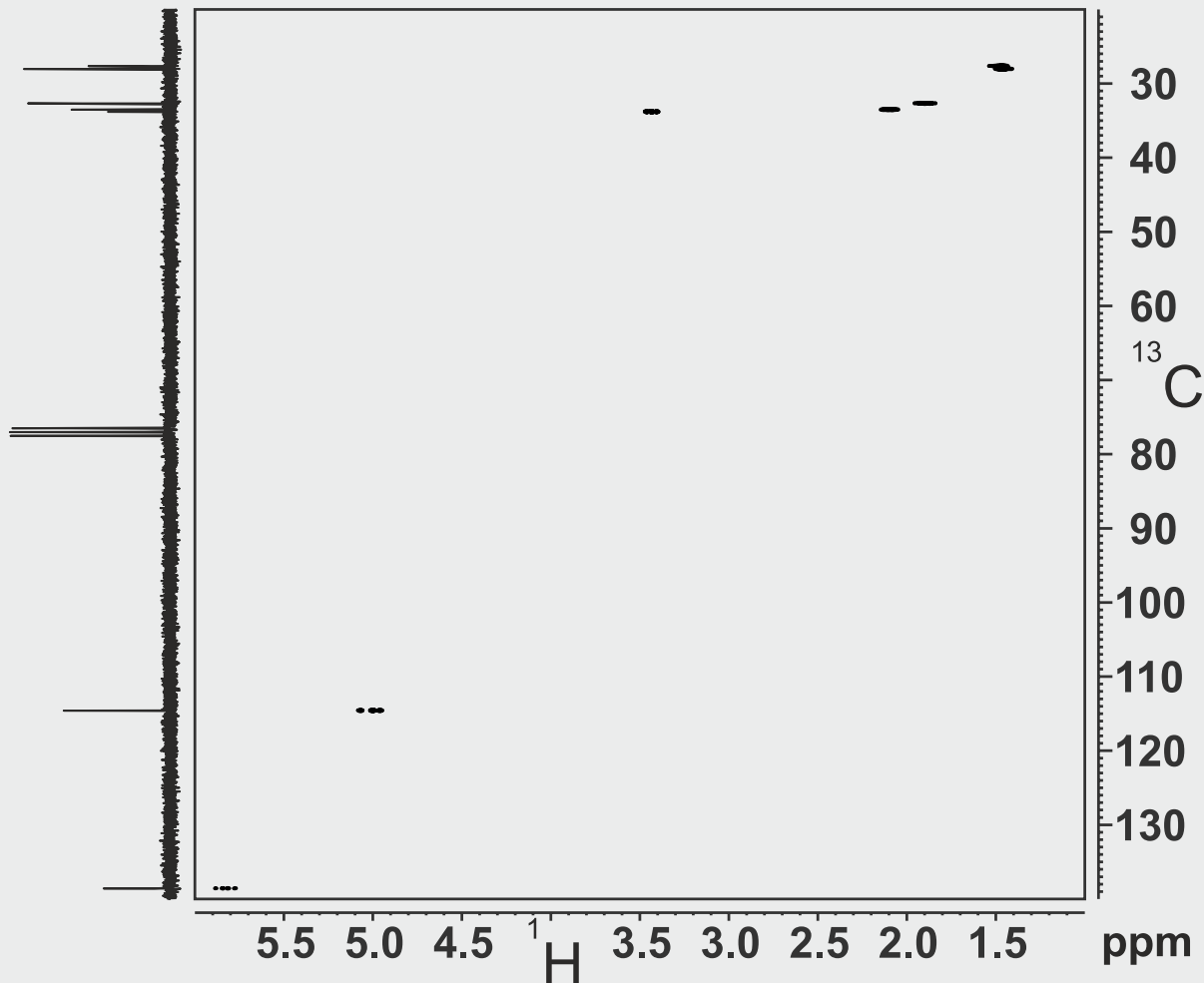


Exercise plus Solution – Quick overview

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.

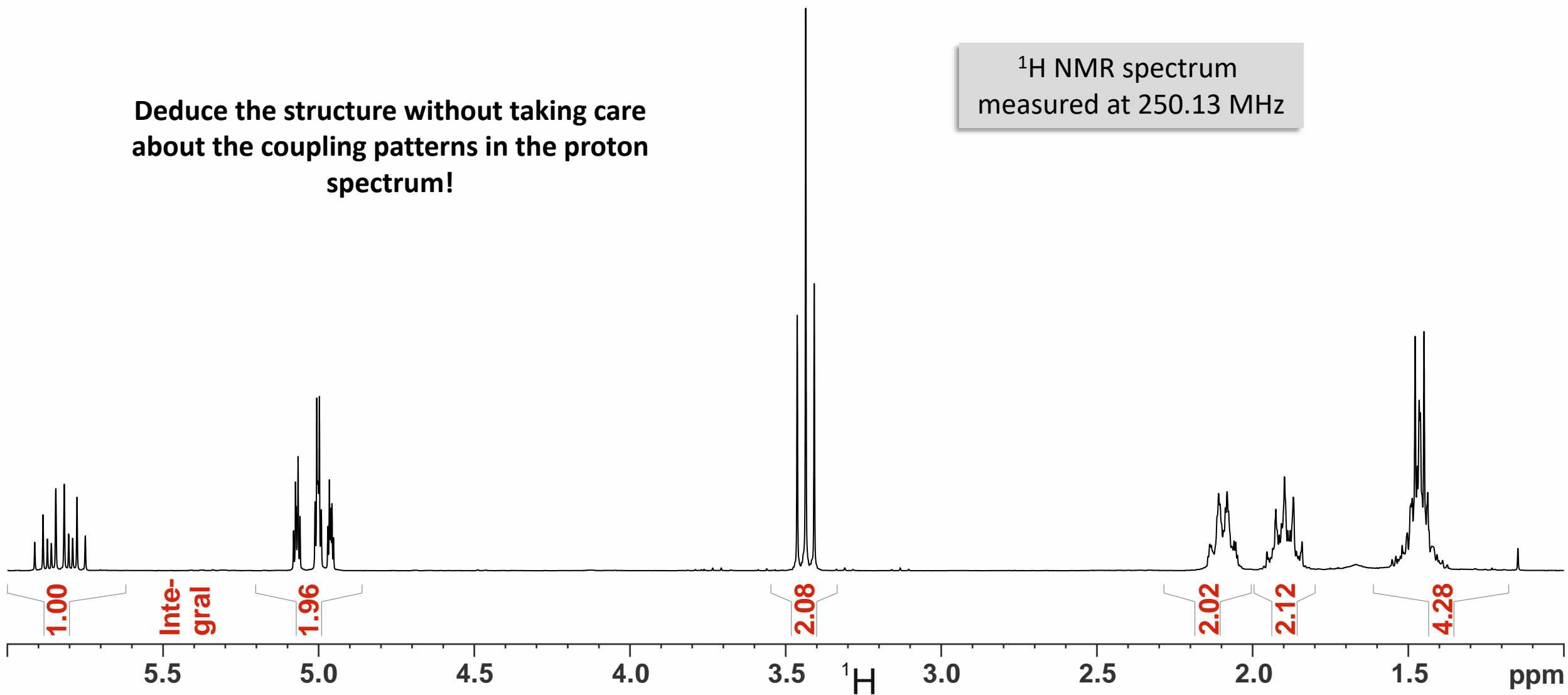
The higher quality PowerPoint files are freely available for download at any time.



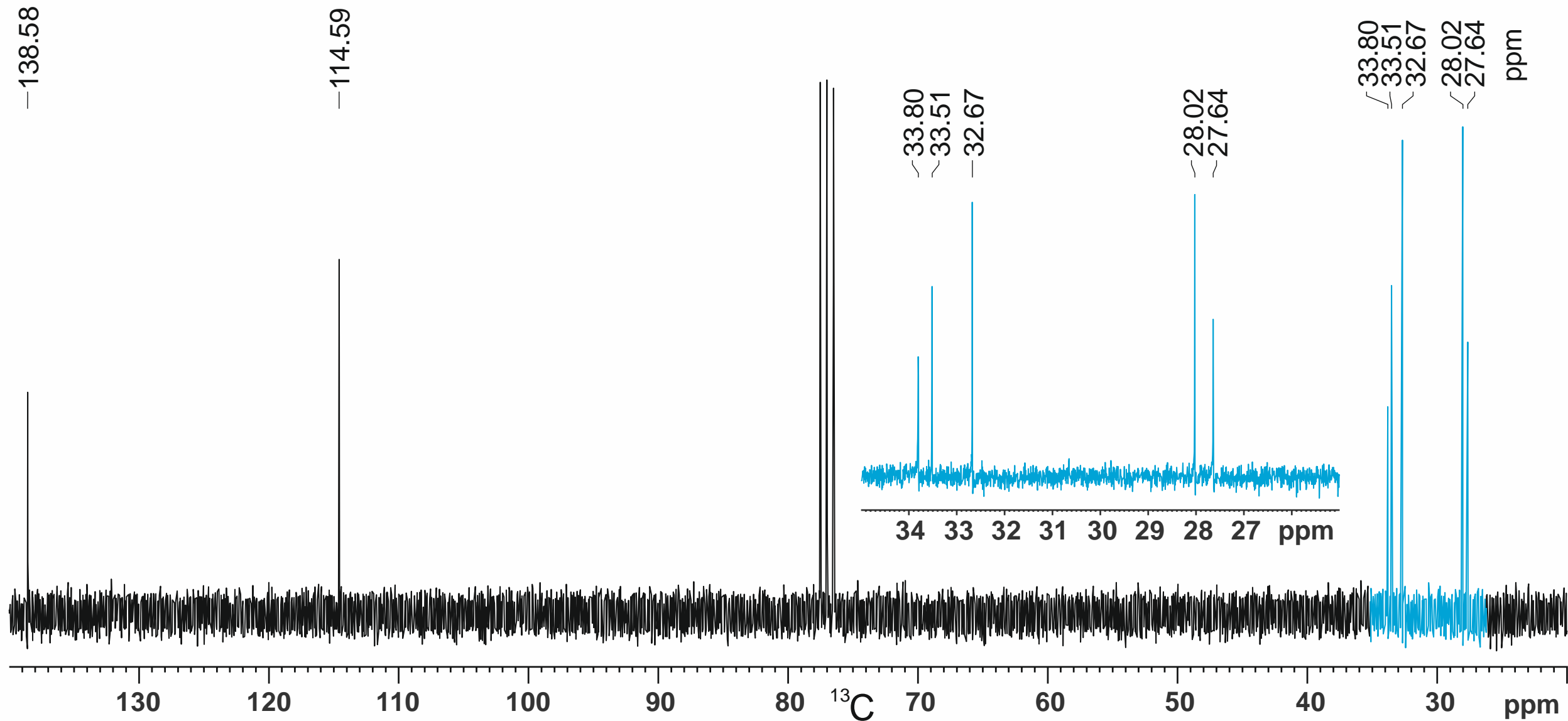
$\text{C}_7\text{H}_{13}\text{Br}$ measured in CDCl_3

Deduce the structure without taking care
about the coupling patterns in the proton
spectrum!

^1H NMR spectrum
measured at 250.13 MHz

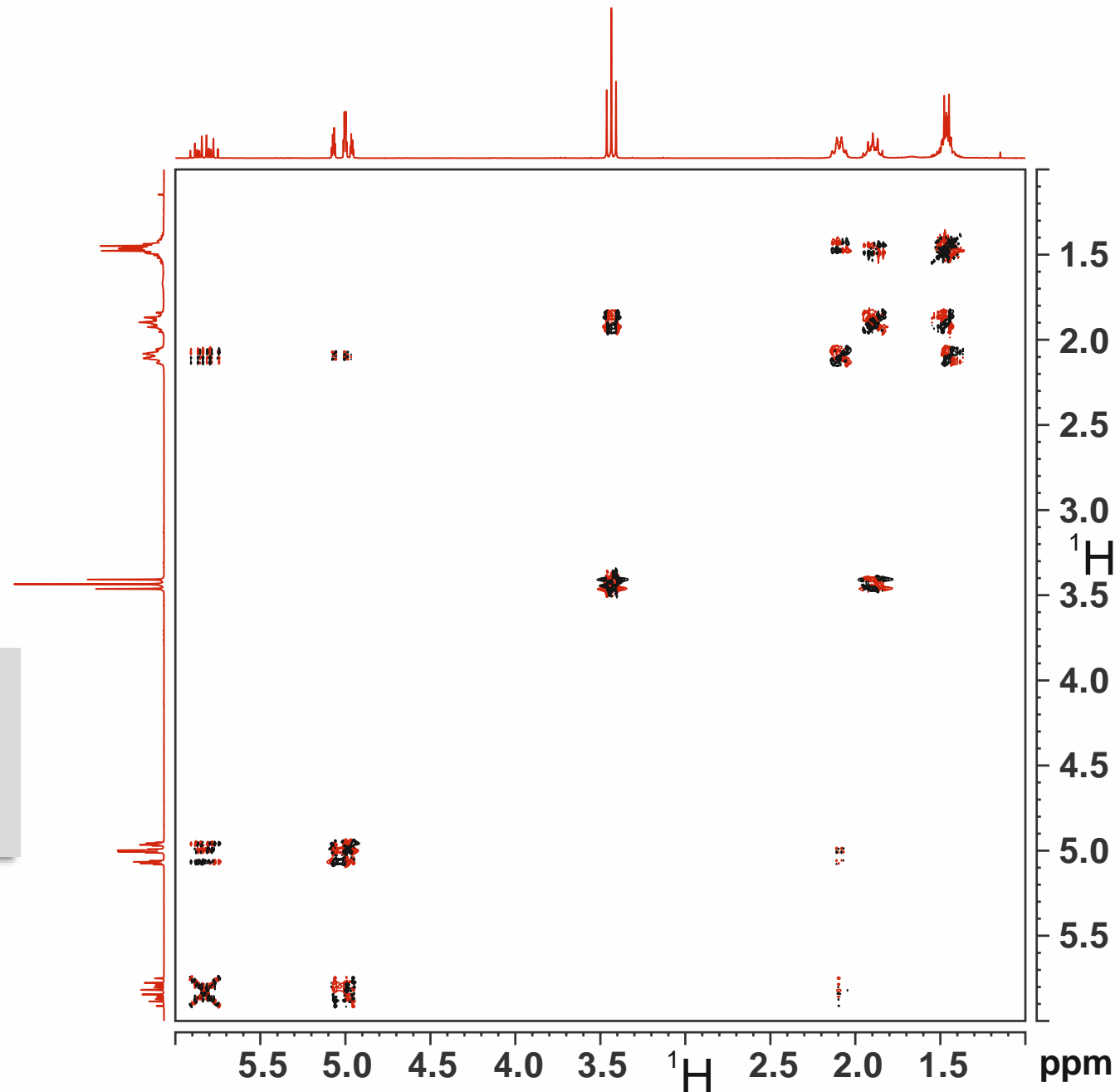


$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum
measured at 62.90{250.13} MHz

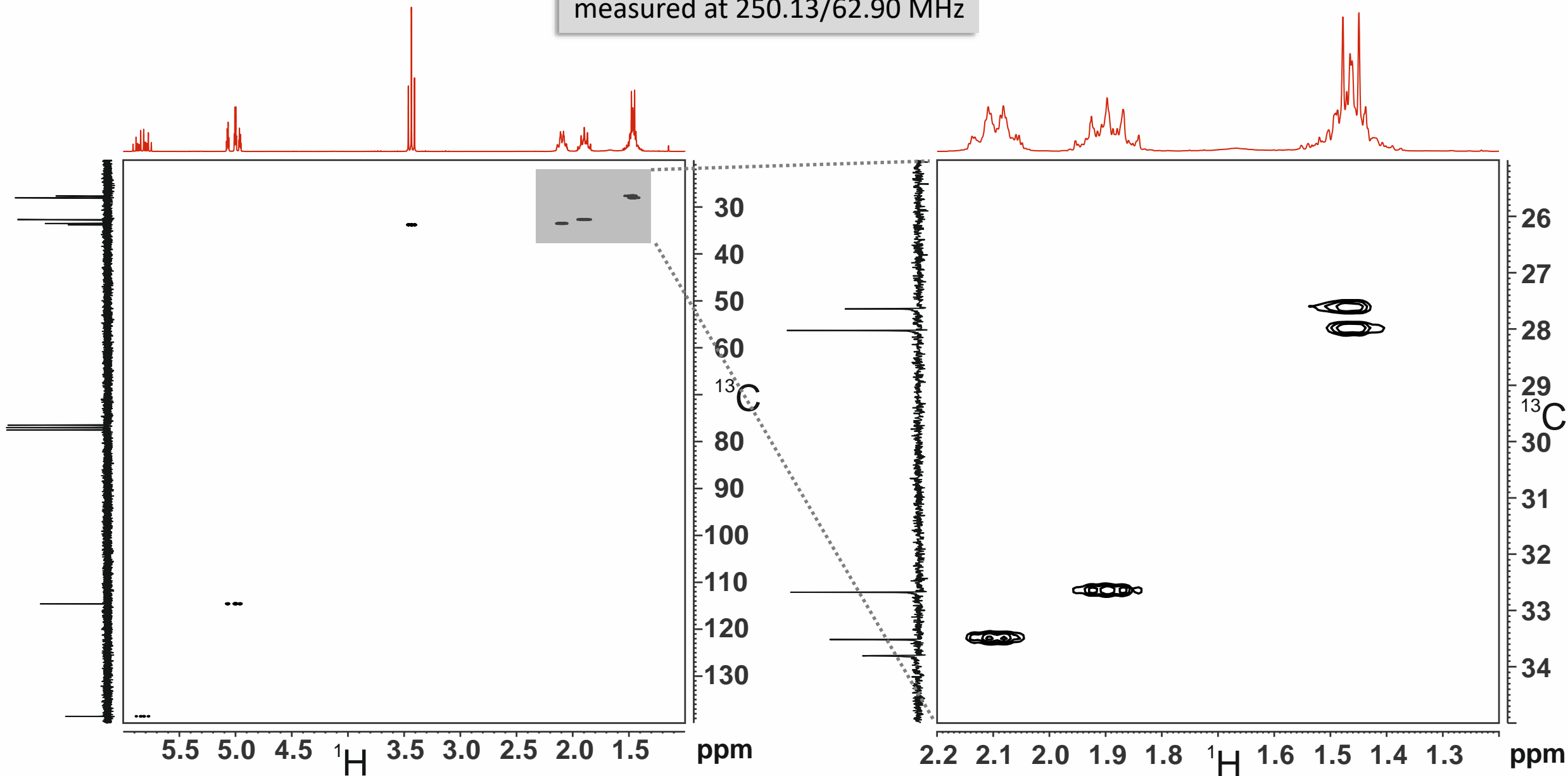


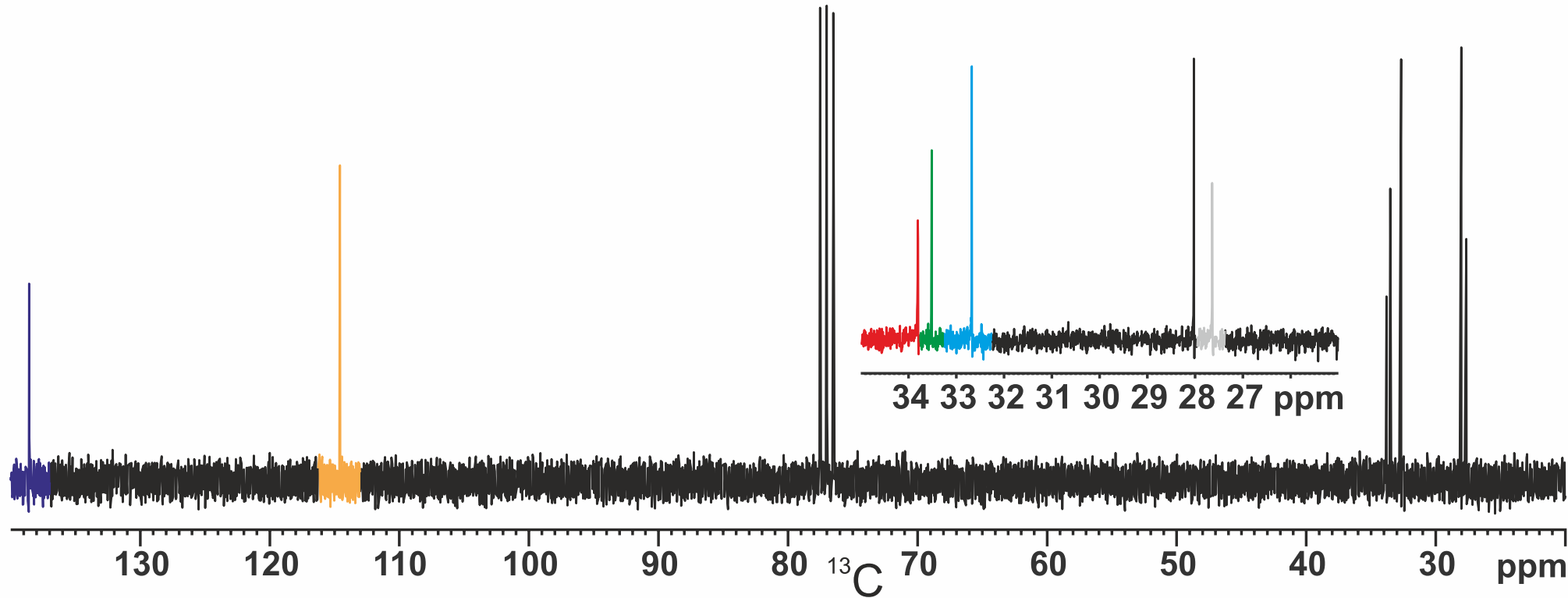
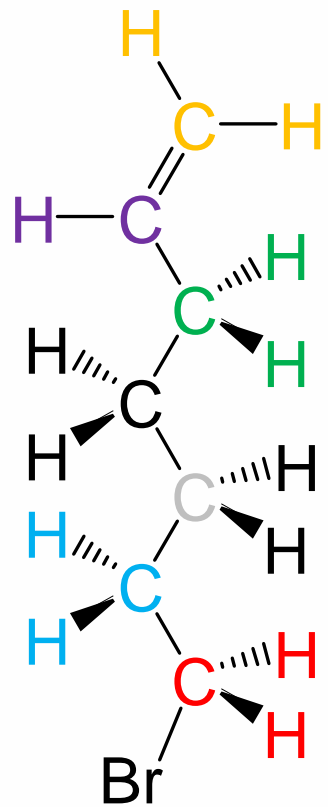
¹H DQF-COSY
measured at 250.13 MHz

Due to strong overlap of two multiplets overlap, it is maybe a recommendable idea to start the analysis of the DQF-COSY coming from two endpoints of the coupling pathway.



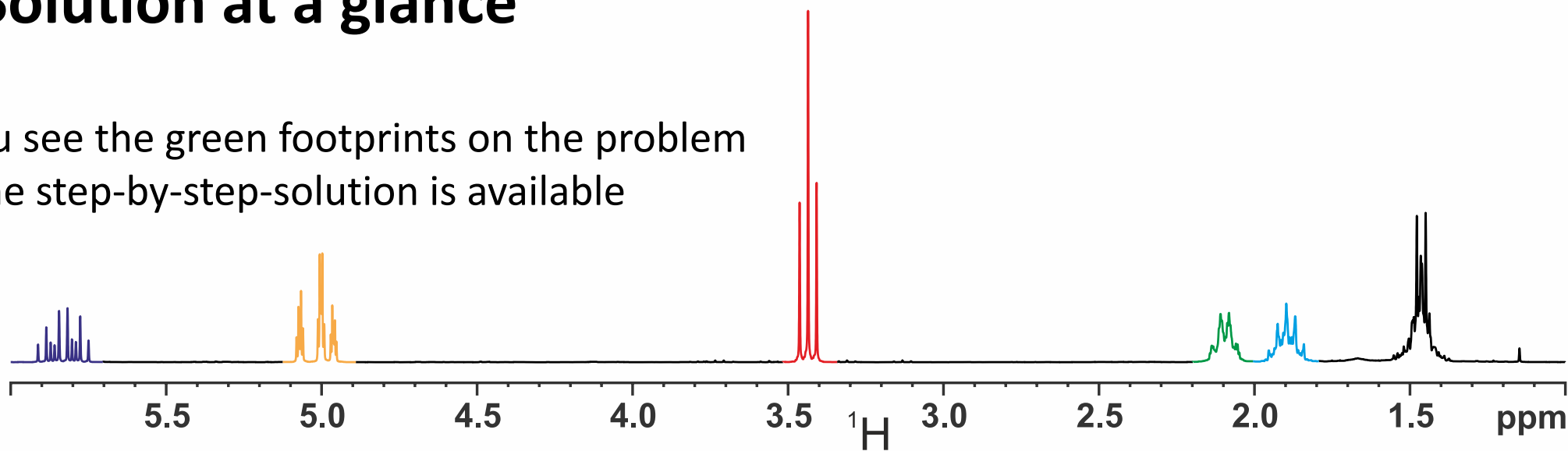
$^1\text{H}/^{13}\text{C}$ HSQC
measured at 250.13/62.90 MHz





Solution at a glance

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



Contributions

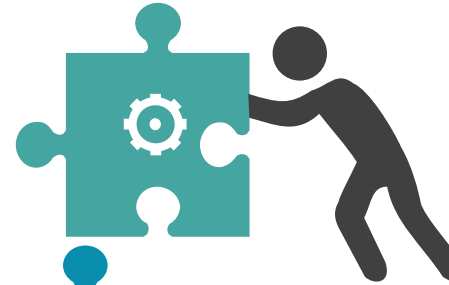
Spectrometer time

TU Munich

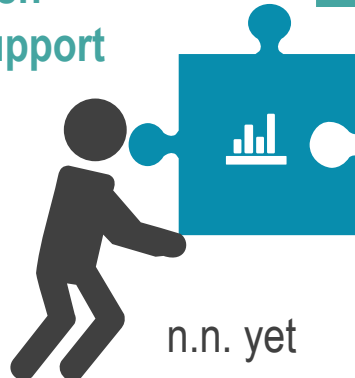


Measurements

Rainer Haeßner



Discussions and
native English
language support



n.n. yet

Compilation



Rainer Haeßner

[More exercises ...](#)