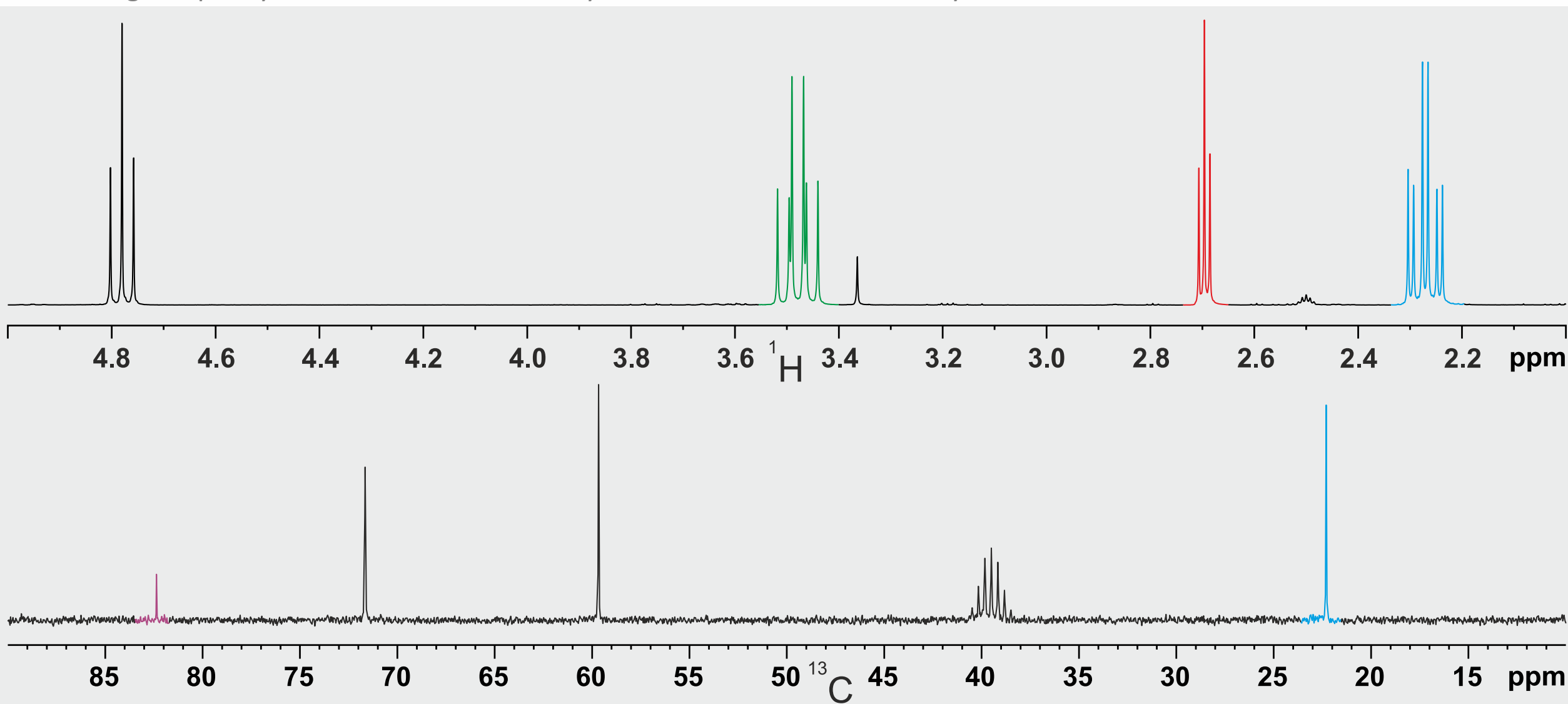


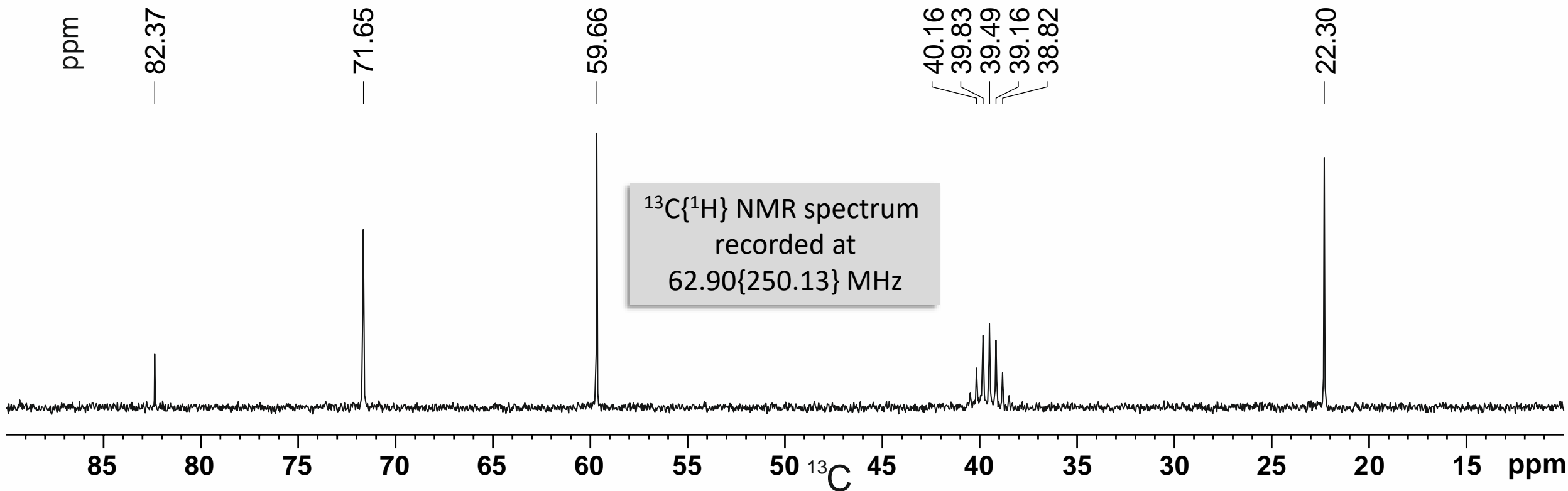
Exercise plus Solution – Quick PDF overview

It is recommended to use this PDF 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.

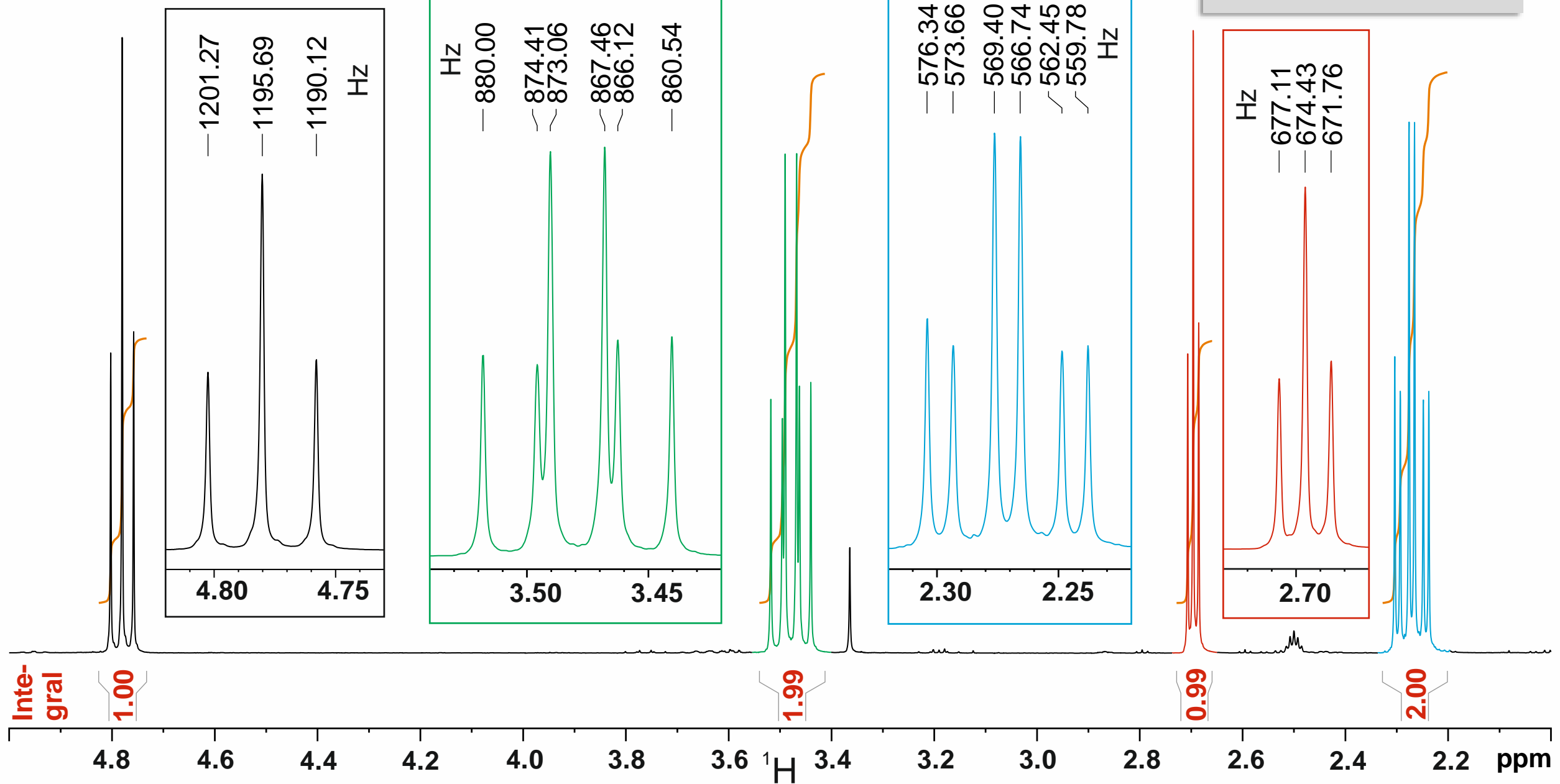


Molecular weight: 70 „unknown“ solvent

- Determine the structure of the compound with molecular weight given here!
- Which solvent was used?
- Would you expect an identical proton spectrum in any solvent?
- Assign all signals, analyse each proton multiplet and extract all homonuclear coupling constants.

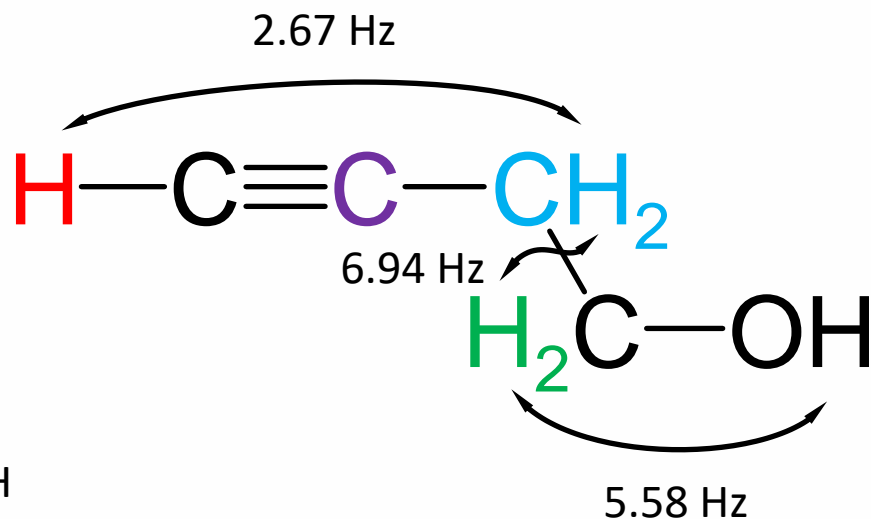


¹H NMR spectrum
recorded at 250.13 MHz



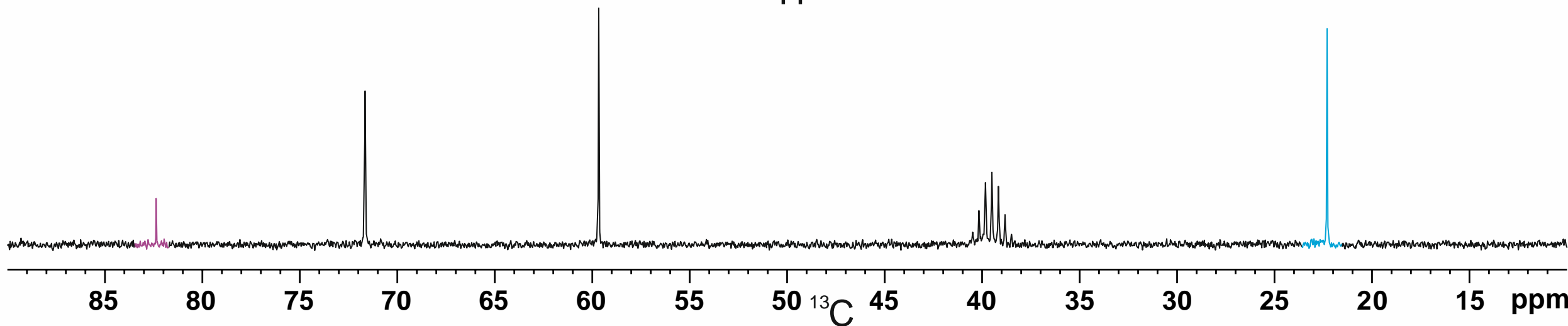
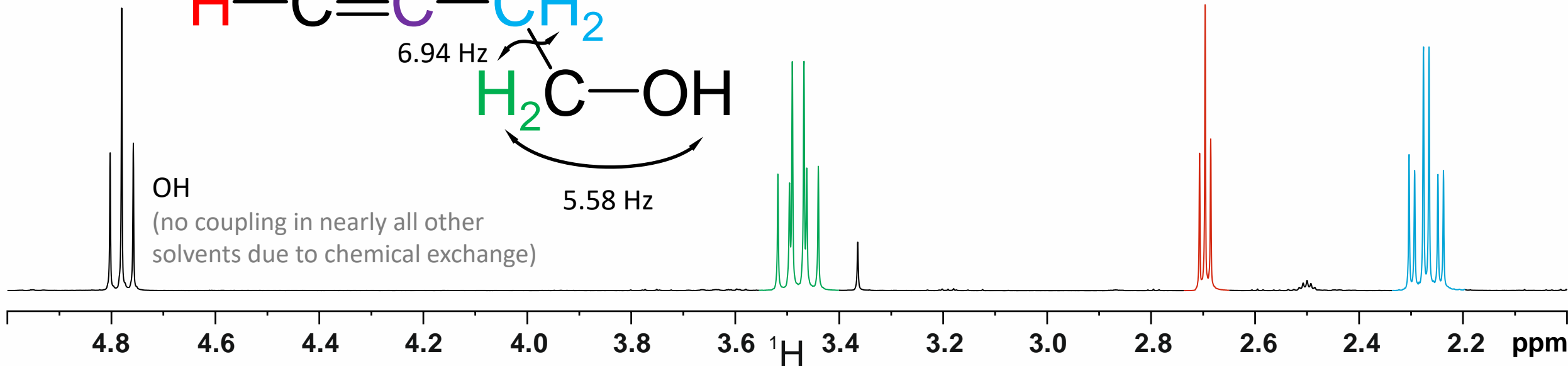
Solution at a glance

Step-by-step-solution not available yet



OH

(no coupling in nearly all other solvents due to chemical exchange)



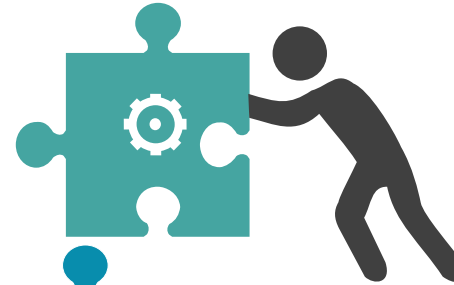
Contributions

Spectrometer time

TU Munich

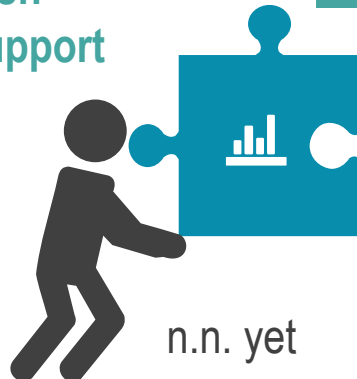


Measurements



Rainer Haeßner

Discussions and
native English
language support



n.n. yet

Compilation



Rainer Haeßner

[More exercises ...](#)