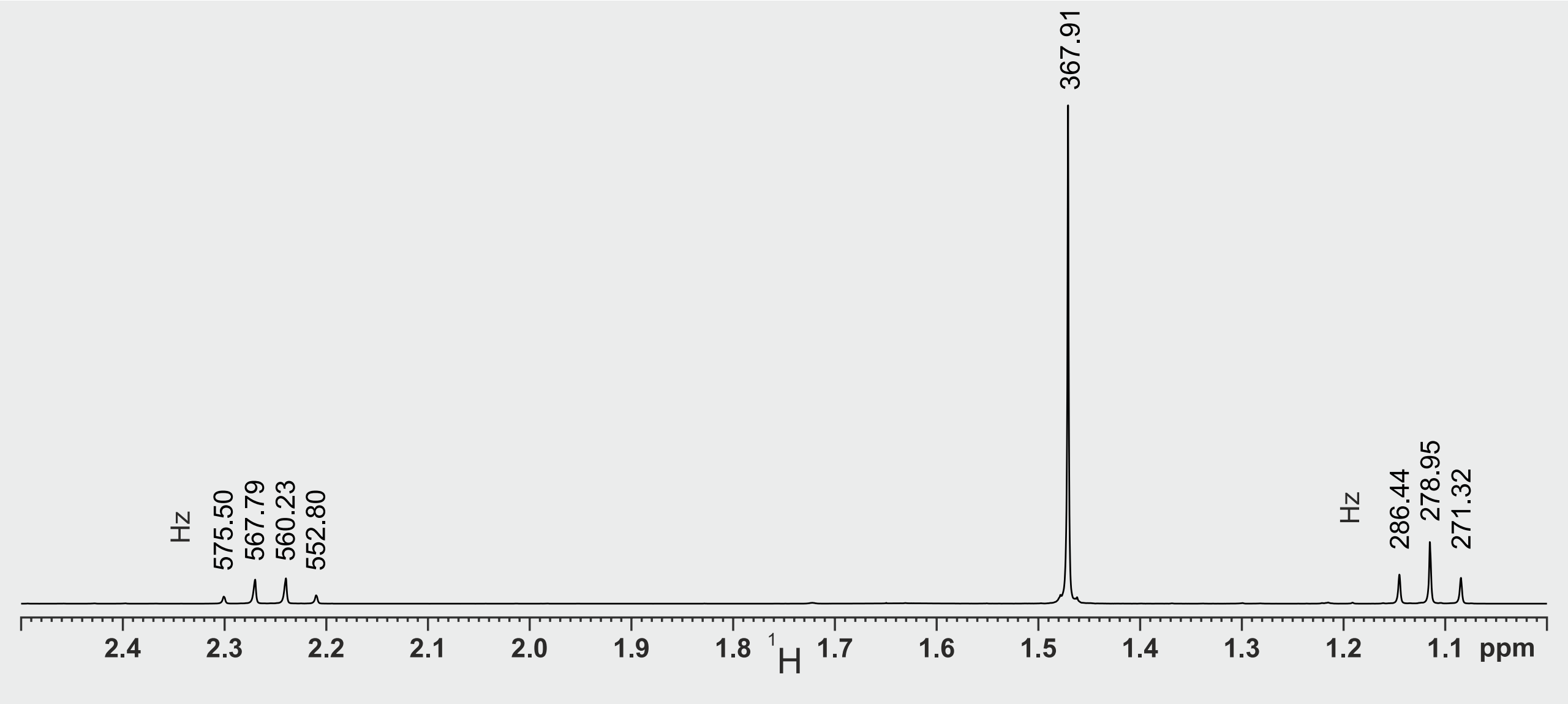
Exercise plus Solution – Quick overview

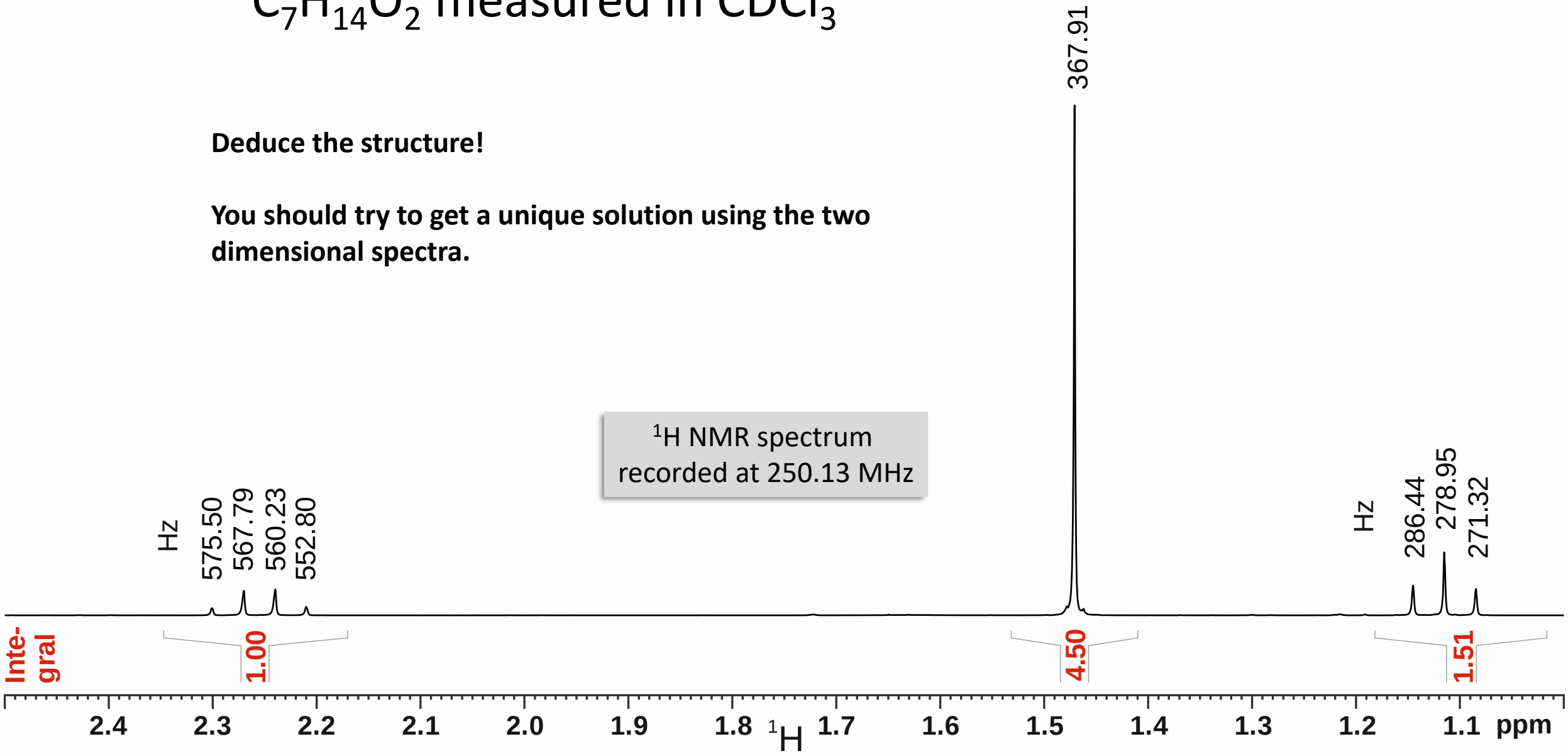
It is recommended to use this version only for a quick overview of the NMR challenge. All animations of the PowerPoint version are missing, under certain circumstances quality deficiencies may also occur.
The higher quality PowerPoint files are freely available for download at any time.

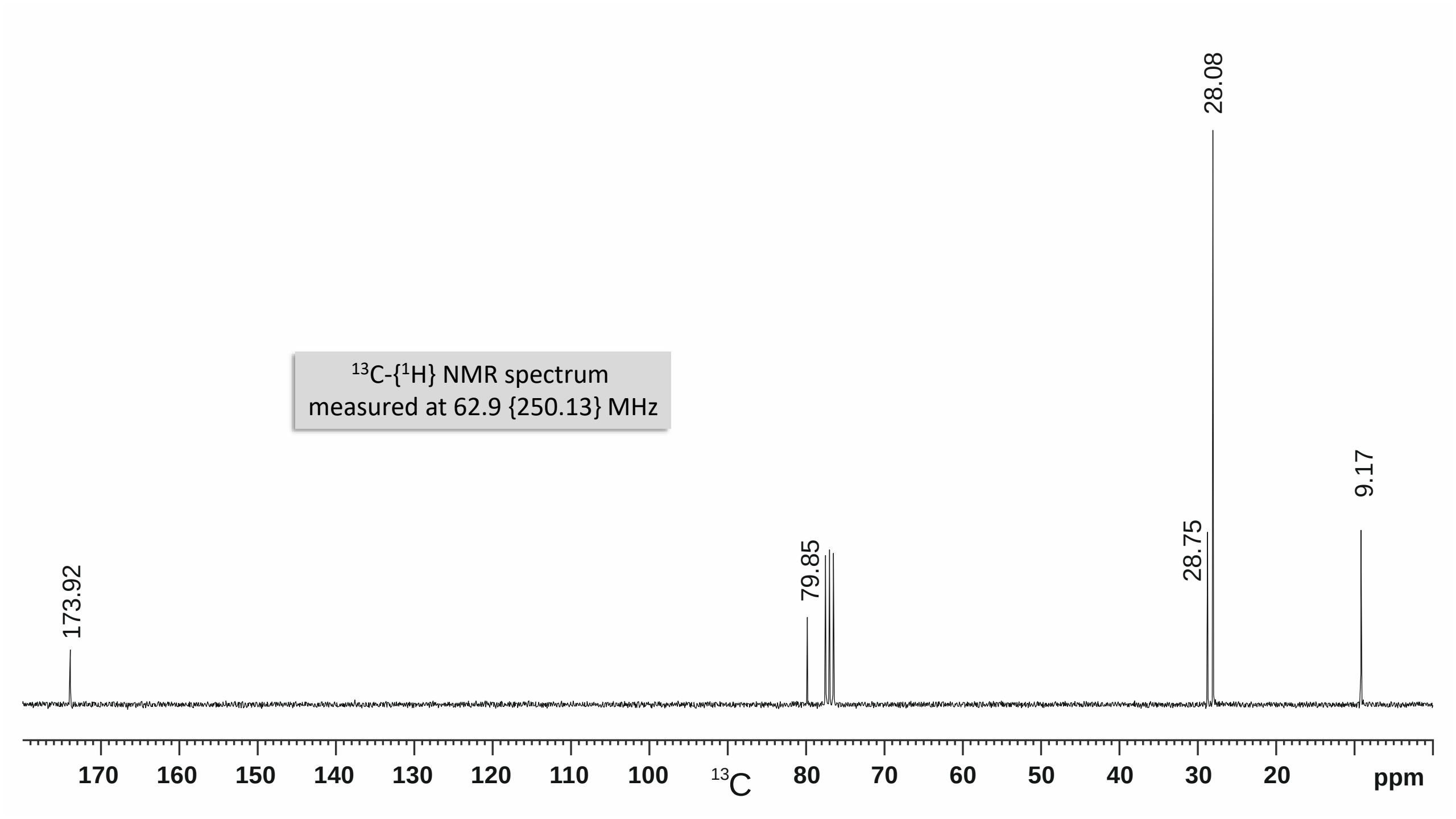


$C_7H_{14}O_2$ measured in $CDCl_3$

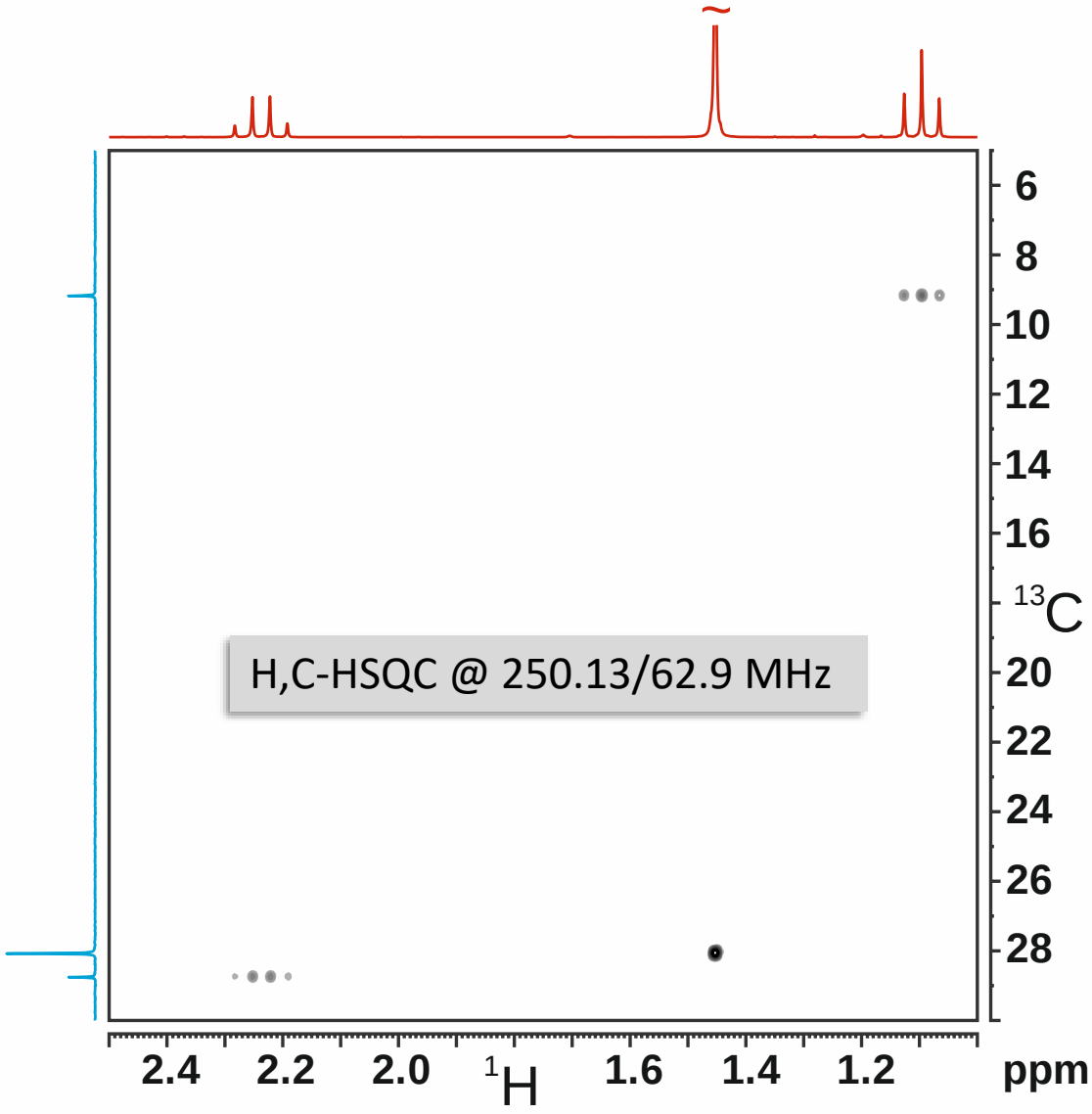
Deduce the structure!

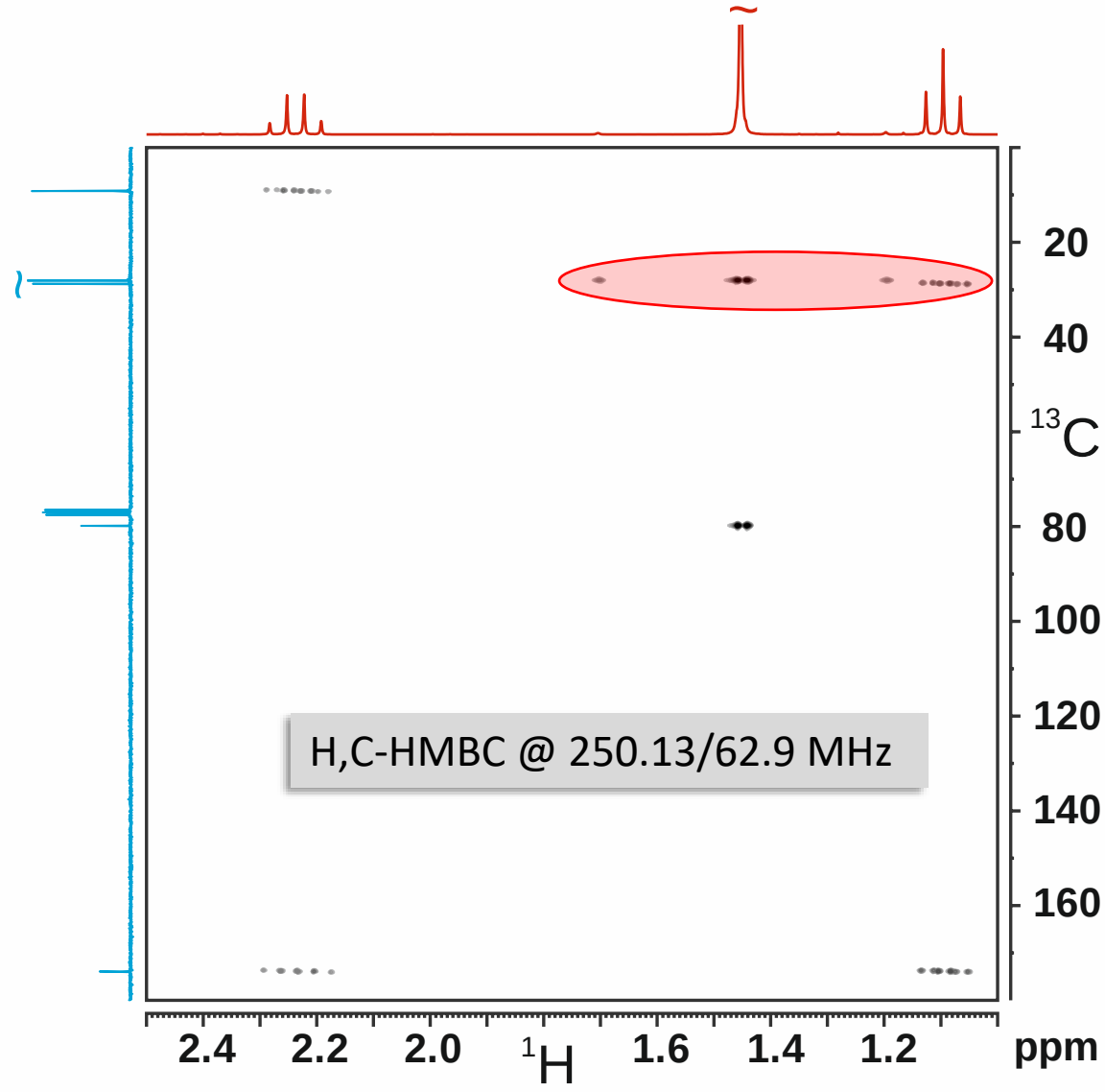
You should try to get a unique solution using the two dimensional spectra.




^{13}C-{^{1}H} NMR spectrum
measured at 62.9 {250.13} MHz
173.92
79.85
28.75
28.08
9.17
170
160
150
140
130
120
110
100
^{13}C
80
70
60
50
40
30
20
ppm

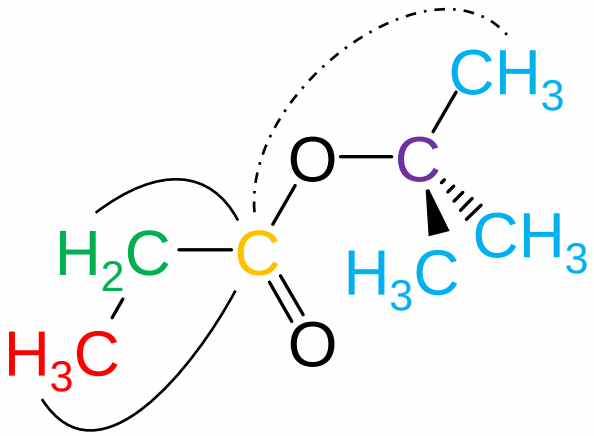
Don‘t worry about the somewhat crowded red labeled area. There is no closer look necessary, you don‘t need this area.



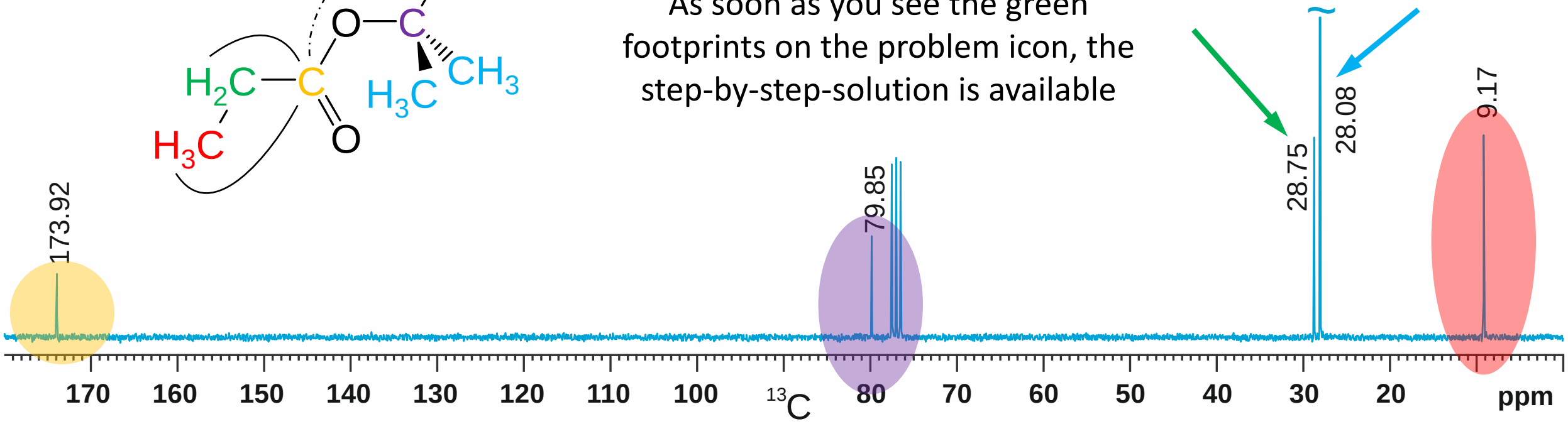


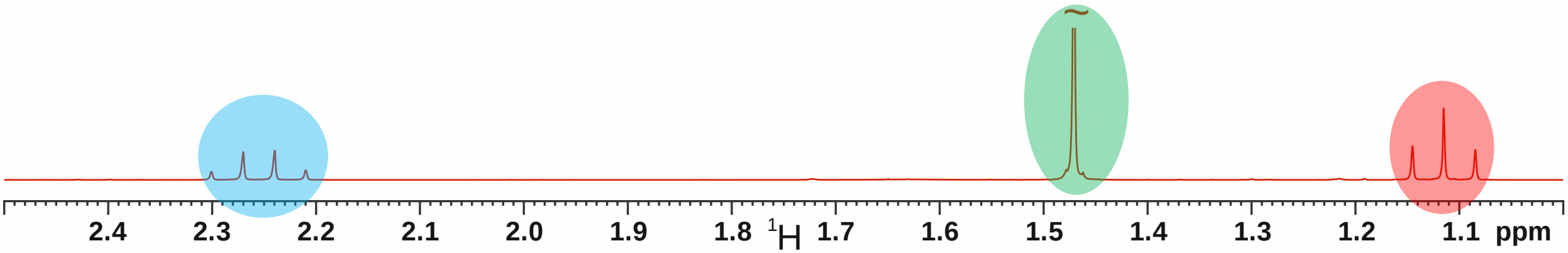
Solution at a glance

missing HMBC correlation



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

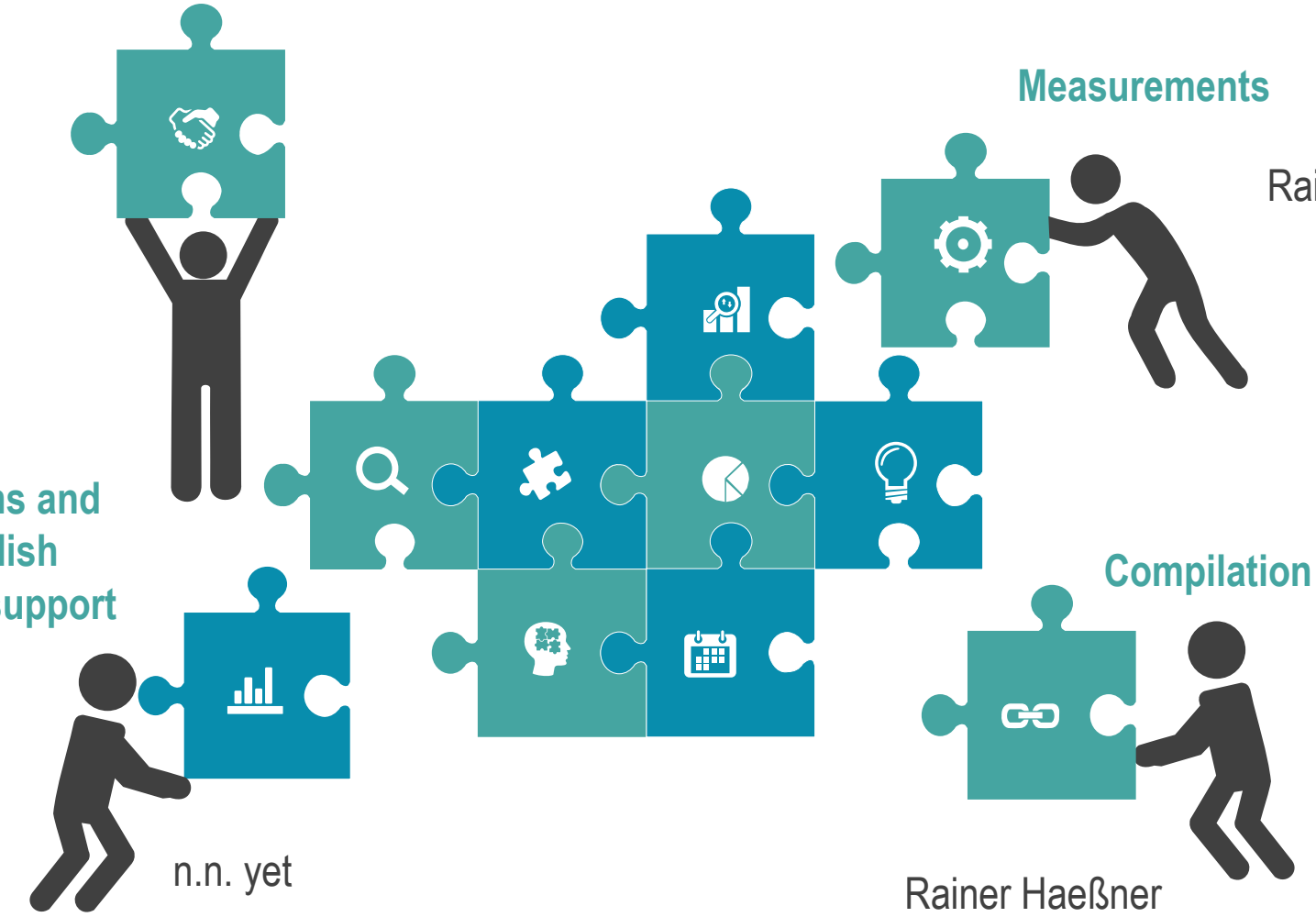
Rainer Haeßner

Discussions and native English language support

n.n. yet

Compilation

Rainer Haeßner



More exercises …