^{13}C Baseline Correction on Probes with a High Q-Factor

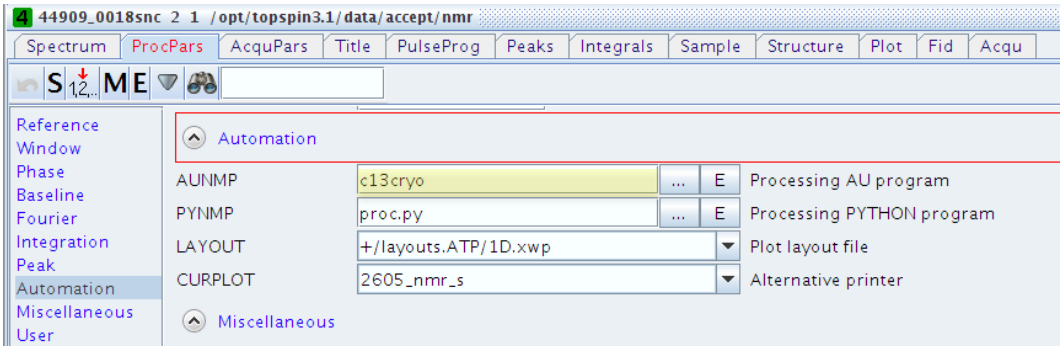
Written by Markus Voehler, January 17, 2013

All our cryoprobes have cold ^{13}C preamplifiers, which means they have the highest possible sensitivity for direct detection with a very high Q-factor. Because of that, baseline distortion due to first point imperfactions are common and need to be accounted for.

You can either do this with an AU-program or manually. Both ways are described in this tutorial.

1) Using the AU-program

a) Go to *ProcPars* → *Automation*, and set the AU-program "c13cryo" in the AUNMP field



b) In the command line tybe "xaup". This program will modify your initial FID in the current expno, but save the original FID in the expno+100,000.

2) Manual adjustments

a) Change NZP = 4

b) Execute ZP

c) Execute CONVDTA → this will ask for a new expno to modify the FID in

d) Change the following Processing Parameters in ProcPars

i) ME_mod LPbc

ii) NCOEFF 32

iii) TDoff 32

e) Do an efp to process the spectrum in the new expno.