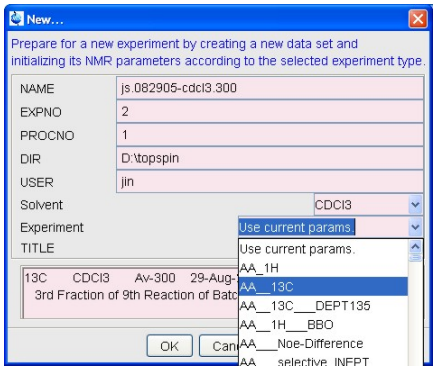
start ^{13}C Acquisition *after* ^{1}H in TopSpin

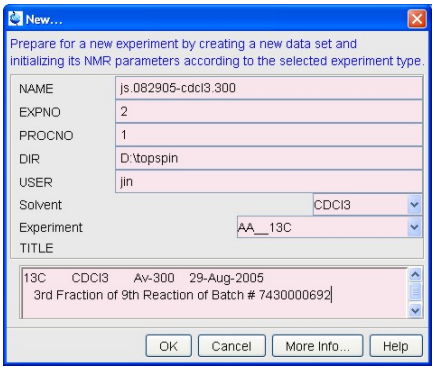


File….
…new

EXPNO: **2**

Experiment:

AA__13C



keyboard entry

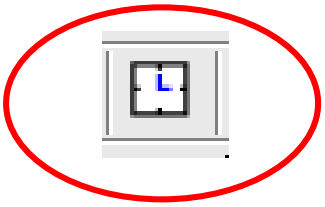
ns

Depending upon concentration

200 = 9 minutes
400 = 16 minutes
800 = 30 minutes
1800 = 1 hour
4000 = 2.2 hours
10000 = 5.5 hours
18000 = 10.0 hours

Each scan is 2 seconds.

Calculate total experiment time [expt



expt

calculates total experiment time.

ii

keyboard entry

May hear a **CLICK** as Probe switches in selecting nucleus slide-bar tuning positions. **Wait for II to finish.**

zg

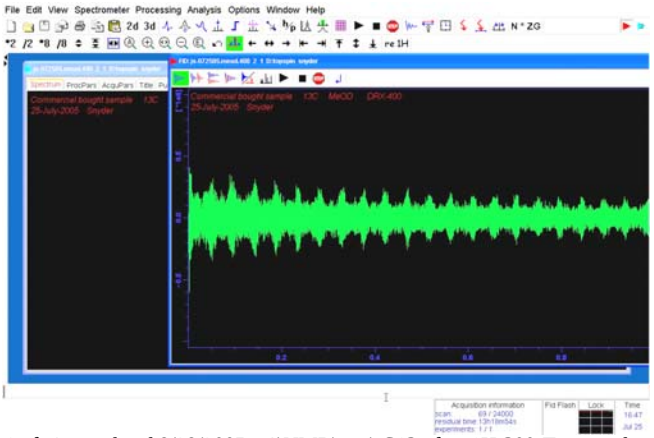
keyboard entry

Sensitivity Comparison:

DPX-300 = Av-300

DRX-400 can achieve the same Signal to Noise in half (1 / 2) the time.

2 hours on 300 = 1 hour on 400



^{13}C Acquisition Continued……..

OPTIONAL

Commands

During ^{13}C

Acquisition.

tr

(Optional)

The "tr" command, transfers the data from the internal console memory to the PC so that the Software can access the data while the Acquisition continues to collect additional scans.

efp

(Optional)

If the Signal-to-Noise is good where you can see all your carbon peaks…….

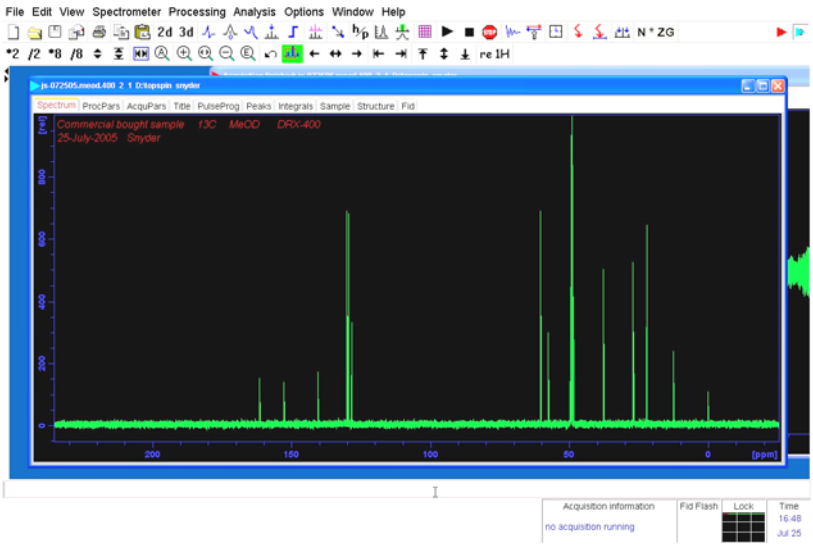
you may "**halt**" the acquisition
or let it **continue** to finish collecting **ns** scans

halt

(Optional)

efp

Phase as needed, calibrate reference peak, etc



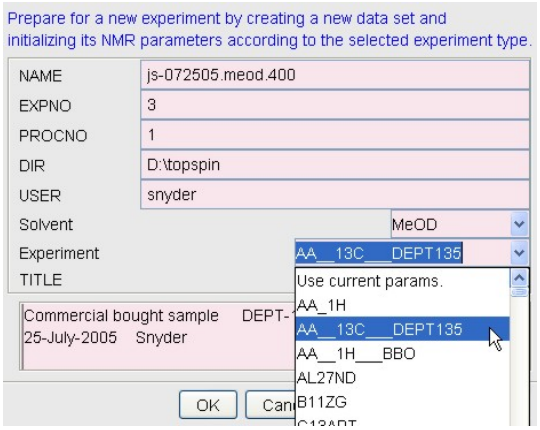
^{13}C DEPT-135 Acquisition Continued……..

File….
…new

EXPNO: **3**

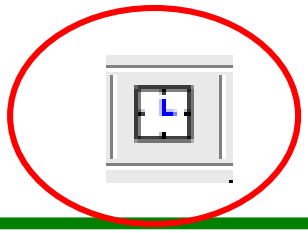
Experiment:

AA__13C___DEPT135



EXPNO = 3

ns



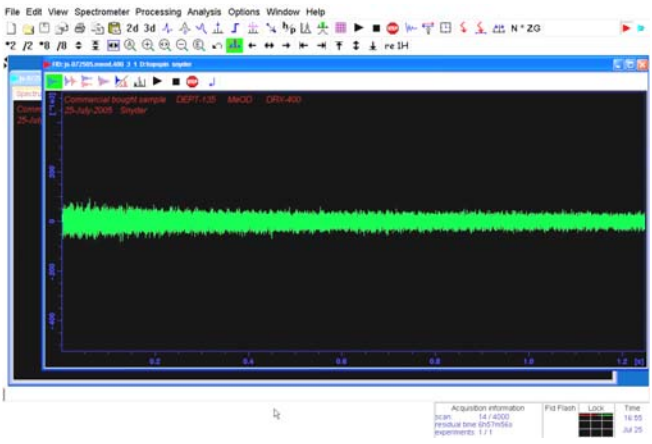
Calculate total experiment time [expt]

Each scan is 5.6 seconds.

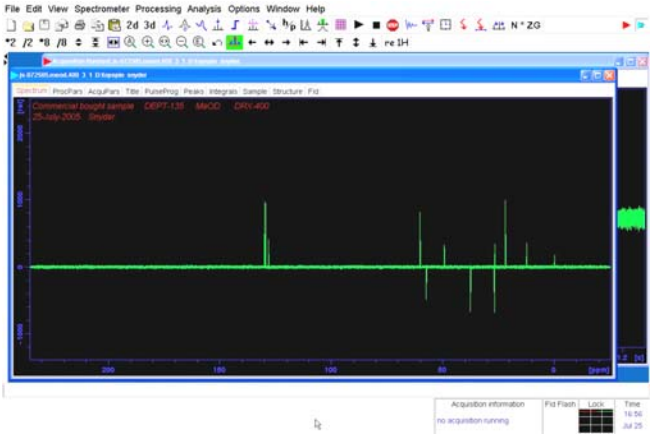
DEPT-135 setup ns such that total acquisition time is ½ of time needed for the carbon spectra.

If you ran the carbon spectra for 2 hours, then set up the DEPT-135 to run for 1 hour.

zg



efp



^{13}C & DEPT-135 run sequentially at setup time

OPTIONAL way to Acquire the ^{13}C and DEPT-135 experiments
OPTIONAL way to Acquire the ^{13}C and DEPT-135 experiments
OPTIONAL way to Acquire the ^{13}C and DEPT-135 experiments

Create expno 2 ^{13}C parameters set ns check acquisition time
Create expno 3 DEPT-135 parameters set ns check acquisition time

Display expno 2

Click on 

button

Enter in 2 for number of experiments to run.

Automation program will start on the current expno. [2]
…….When '**ns'** scans are completed, or '**halt'** command is given,
……..TopSpin will then read in the next incremented expno [3]
……..and start (zg) the next acquisition.

OPTIONAL way to Acquire the ^{13}C and DEPT-135 experiments
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