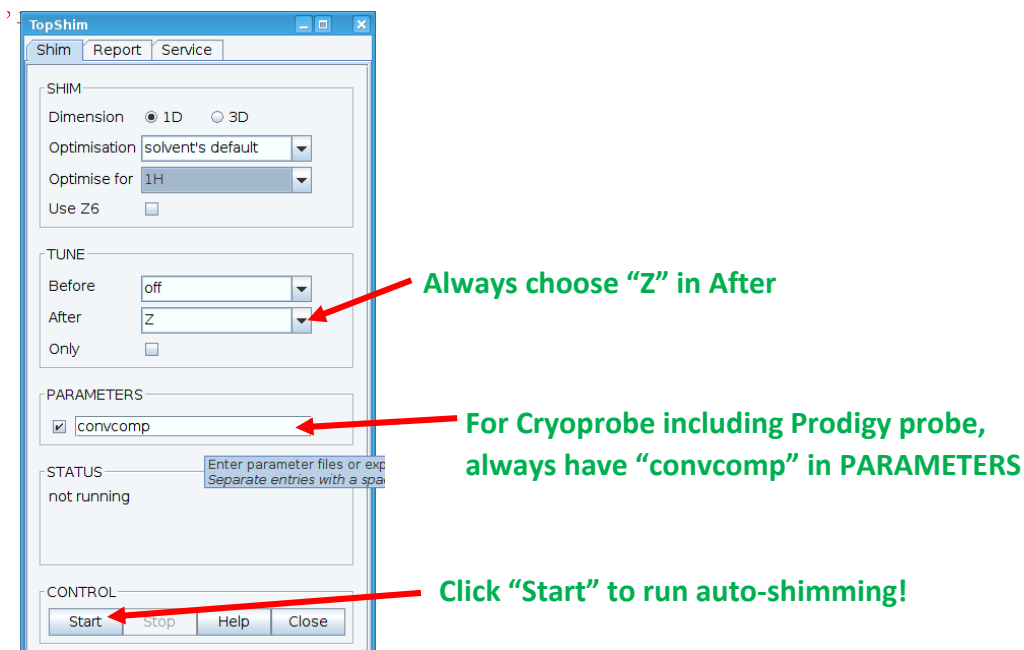


NMR Acquisition Guide

20190819 lzhu

Topspin has a command line to type command. **Each version of Topspin uses the same command.** But the graphic button may change depending on the Topspin version. So I use commands in the following steps:

1. Create new dataset: `type new` ; Then fill all the information;
See page2 for more information
2. Insert your sample if you haven't done so.
Read "NMR Sample Preparation_UCR" for more information
3. Read Shim file(optional): `type rsh` ; Then choose the most up-to-date shim:
*e.g. For Avance600, choose BBFO_AV600.shim;
For NEO400, choose Prodigy_NEO400.shim.*
4. Lock solvent: `type lock` ; Then choose the solvent in your sample
5. Tune probe: `type atma` ; If the probe needs tuned manually, `type wobbb`
6. Shim via gui panel: `type topshim gui` ;



7. Review parameters: `type ased` ; check d1, ns, sw, o1p and so on...
8. Adjust receiver gain: `type rga` ; *this could take 30 seconds or so*
9. Acquire data: `type zg` ;

Topspin 2.1 Create New Dataset Window

Please define the number of receivers in the box below.

NAME	20190816_19F	Name folder under USER folder. You can change it.
EXPNO	1	Number folder under Name folder. It contains your data.
PROCNO	1	Use different EXPNO for each dataset.
DIR	/home/opt/nmrsu	Your group data folder path. Don't change it.
USER	lzhu	Sub USER(e.g. lzhu)folder under group data folder.
Solvent	CDCl3	Choose your solvent
Experiment Dirs.	/opt/topspin/exp/stan/nmr/par/user	Don't change it.
Experiment	ACIF_13C	Usually Expt starting ACIF is good ones, ready to go. Choose expt by using the drop down menu.
TITLE	Your data title. Add all the notes you want.	

1 Receivers (1,2,...8)

You can use different NAME folders for each dataset. Or you can use different EXPNO number folders under the same NAME folder.

Topspin 4 Create New Dataset Window

Dataset	NAME	20190819_test	NAME folder under Directory. You can change it.
	EXPNO	1	Number folder under Name folder. It contains your data.
	Directory	/opt/nmrsu/CRL	Your main data folder path. Please make sure that is the right folder.
	<input checked="" type="checkbox"/> Open in new window		
Parameters			
	<input type="radio"/> Use current parameters <input checked="" type="radio"/> Read parameterset ACIF_1H Select <input checked="" type="checkbox"/> Set solvent H2O+D2O Choose your solvent Additional action <input checked="" type="radio"/> Do nothing <input type="radio"/> Execute getprosol <input type="radio"/> Keep parameters P 1, O1, PLW 1 Change		
Advanced			
	Number of datasets (receivers)	1	
Title			
Your data title. Add all the notes you want.			

You can use different NAME folders for each dataset. Or you can use different EXPNO number folders under the same NAME folder.