

1H NMR at AV600

Procedure:

Open Topspin 3.6.5

Ah1

30 degree pulse angle for routine H-1

A. Preparation and Acquire,

1. create dataset (**new** or **edc**): name; exp #; pro #; solvent; directory (D:\Chem471\user last name\yrmo)
2. (**rpar Ah1**)
3. load sample in autosampler holder #; (**sx #1**)
4. (**lock**): select the right solvent
5. tune (**atma**)
6. no spinning
7. (**rsh shim.current**); shim (**topshim**)
8. prosol (**getprosol**)
9. gain (**rga**)
10. check: (**ns**), (**ds**), (**d1**)
11. go (**zg**)

B. Process and Finish,

12. (**efp;apk**)
13. adjust phase if necessary
14. calibrate spectrum
15. pick peaks
16. integrate
17. eject sample (**ej**) or (**sx #2**) ; take sample
18. close topspin
19. log off

d1 is relaxation time in seconds

ds is dummy scans for warming up the spin system

ns is number of scans

Remark:

- lock and shim well
- tune probe
- no spinning
- no pulse calibration in automation
- optimize offset (**o1p**) and spectral width (**SW**) for advanced applications