Protocol for 13C NMR (BBO probe) at NMR400 (AV NEO 400)  

Book time and log in computer as usual

Ac13cpd (BBO probe)  
30 degree pulse angle for routine C-13 with H-1 decoupling

Procedure:
Open Topspin 4.0.6

run H-1 NMR prior to C-13 NMR (Ah1): follow the basic procedure from your basic H1 training.
run C-13 NMR with H-1 decoupling

A. Under "Start",
   1. create dataset: name; exp #; pro #; solvent; directory (D:\group name\user name\yrmo)
   2. rpar Ac13* (select Ac13cpd)

B. Under "Acquire",
   3. no eject sample (ej)/no insert sample (ij)
   4. no lock
   5. tune (wobb): manual
   6. no spinning
   7. no shim (topshim)
   8. prosol (getprosol)
   9. gain (rga)
  10. check: ns, ds, n1
  11. go (zg)

C. Under "Process",
  12. efp;apk
  13. adjust phase if necessary
  14. calibrate spectrum
  15. pick peaks
  16. integrate
  17. advanced if necessary

D. Under "Analyse"
  18. eject sample (ej); take sample; ij to close air
  19. close topspin
  20. 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 cal in automation
" optimize offset (o1p) and SW (ppm) for advanced applications