

AV-500 Solution

Collecting Simple One Dimensional NMR Data

X-----DO NOT SPIN the Sample In this Instrument-----X

Remove the magnet cap

Turn off LOCK

Eject the standard sample

Insert the new sample

Drag and drop the appropriate parameter file

Create a new dataset

Lock the field by choosing the correct solvent

Initialize instrument with the ij command

Check the temperature with the edte command

Tune and Match the probe using atma command

Shim the probe with the topshim command

Adjust the receiver gain with the rga command

Enter suitable number of scans (NS), dummy scans (DS), and relaxation delay (D1)

Acquire data with the zg command

Process data with efp;apk

Turn off LOCK

Eject sample

Insert standard sample

Lock field selecting H2O+D2O

Replace cap on magnet bore

Make logbook entry

% If the correct NMR parameter file is loaded, this procedure can be used to collect the data for other nuclei such as ¹³C, ³¹P, and ¹⁹F%