COSY Experiment Guide

Step	Function or Dialog Box	<Keystroke>/[Select]/<*Data Entry*>	Comment
1	Sample		See Sample Preparation Guide. Position sample spinner using the depth gauge, place in probe.
2	Enter PNMR program.	<Alt+Tab>	(If necessary.)
3	Set Experiment Parameters.	**H1>**cosy<Enter>	
4	Enter file name.	*filename*<Enter> or <Enter> for default	Enter filename if desired, but it is usually better to use the default (My_cosy) unless one intends to save the data long term.
5	Set relaxation delay.	*value*<Enter>	RD=2 seconds is typical for COSY.
6	Set number of scans.	*value*<Enter>	NS=4 to minimize artifacts. NS=1 to save time.
7	The gain is adjusted		The spectrometer adjusts the receiver gain.
8	Acquire data.		
9	Enter NUTS.	<Alt+Tab>	
10	Process data.	<Ctrl+F5> then **[filename][Open]** or **[Open]** for default	Runs aii_cosy.mac. Use mouse to select data file in dialog box.
11	Enter data acquisition parameters.	**[OK]**	Add name, date and experiment if desired. Macro then shows an intensity plot when done.
12	Add borders.	**[border]** **[Pick top spectrum]** **[filename]** **[open]**	Open border menu; scroll to pick top spectrum. Repeat the process for the left border.
13	Adjust data display.	**>**mh	Adjust **M**inimum **H**eight for best display. (Hint**:** Look for off-diagonal peaks. **MH** value normally is between 0.5 and 3.0 for COSY.)
14	COSY only: Set plot limits.	**>**zo <f> <Ctrl+E>	Enter start and end of zoom for both dimensions. Exit zoom with <Enter><Enter>
15	Display contour plot.	<c>	Change to contour display before plotting.
16	Print Contour Plot.	**>**pl	Then <Enter> to exit 2D display mode. To redisplay intensity plot from the base level NUTS prompt, type the command "ip" or "cp".