

Solving Simple NMR Problems

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Acquisition Problems

There are two steps that any user can safely attempt to resolve acquisition problems with the NMR.

The *ii* command: Type *ii* at the *xwinnmr* command prompt. If you receive Error, Warning, or Information messages during the initialization, Do *ii* again.

The **ACB Reset command:** From the main menu in the *xwinnmr* window, choose Windows, Amplifier control (Or type *acbdisp* at the command prompt). If you receive Error, Warning, or Information messages, the program will not open the ACB display window. If this is the case, type *acbdisp* again. From the menu in the ACB display window, choose Controls, ACB Reset. When the display “restarts” (this will take about 10 seconds) choose Transmitters and Quit.

Some known fixes.

- 1) The Trans P-down light is on: Perform an *ii* and an ACB reset.
- 2) The BOSS keyboard is in “Display Mode”: Type *lock* at the command prompt. Pick your solvent from the list and allow the spectrometer to relock the sample.

Locking and Shimming Problems

The *rsh* command: If you are having problems with locking or shimming, you might try to read in a standard shim set. This will restore the shim settings to more suitable values. At the command prompt type *rsh*. Assuming that the QUAD nucleus probe is installed, choose QUADNUC from the list. (Use BROADBAND for the broadband probe). Lock and shim your sample as usual.