

¹⁹F (FLUORINE) NMR

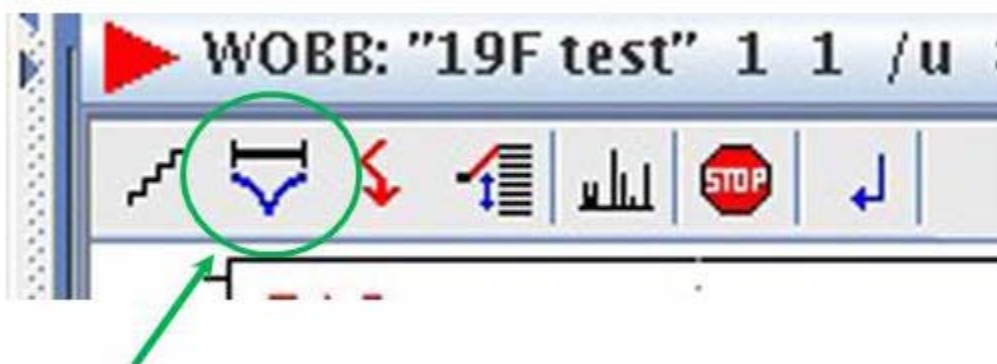
BRUKER 400

LAST EDIT 1/14/11

SKILL LEVEL: **MEDIUM**

Do not attempt unless you have extensive experience tuning the Bruker 400 probe and are familiar with the TopSpin software.

1. Insert sample. Lock and shim.
2. Load *19F-dcif* parameters (**rpar**) and type **ii**.
3. Remove the 1H and BB cables from the probe.
4. Connect the cable that runs from the X BB preamp slice on the preamplifier (The preamplifier is the grayish brown box on the floor next to the NMR) to the 1H connector on the probe. Do not remove the Lockstop or BP X/19F BS 1H filters.
5. Type **wobb**. Open the wobble screen to 24 MHz (See image below. Click the circled button and change the value to 24). Pay attention to the tune knob first. You may have to turn in a lot in order to see the dip in the wobble curve.



6. When you have finished your experiment, remember to return the cabling to normal. Reconnect the 1H and the BB cables to their proper spots on the probe.
7. Open the **wobb** and tune back to ^1H . DO NOT FORGET TO TUNE BACK TO ^1H WHEN FINISHED!
8. Turn off the lock and the spin before ejecting your sample.

If you have any questions, don't hesitate to ask a DCIF staff member.

