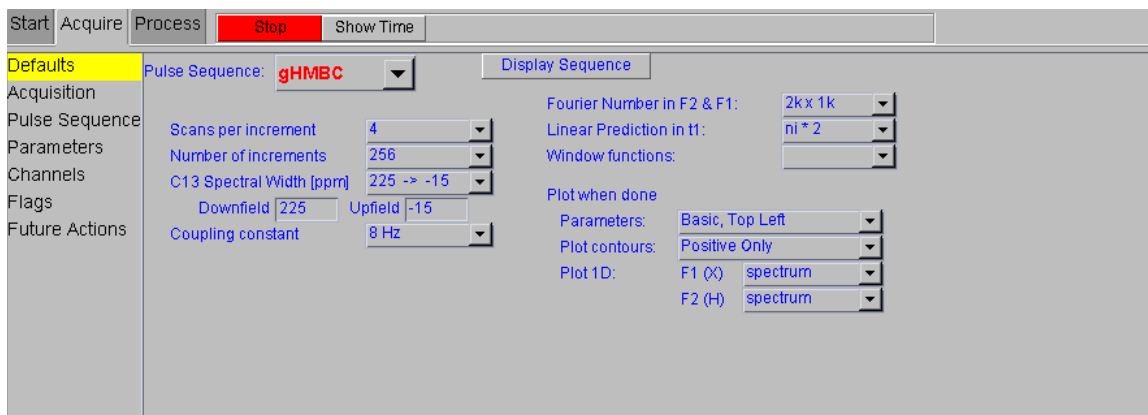


2-D Ghmhc spectra

1. Run a 1-D proton spectrum and be certain to tune the proton channel (Channel 1) *and* the carbon channel (Channel 2).
2. From the Hetero2D menu in the Study Q, select Ghmhc. In the study Q, a proton and a Ghmhc will be queued.
3. Double click the proton parameters. This loads the proton pulse sequence. In the **Acquire->Prescan** menu, turn off MinSW. Set the window from the **Acquire->Default** menu. Select the number of scans and the relaxation delay (suggested 8 scans and 2 seconds delay).



4. Double click the Ghmhc to load the Ghmhc parameters. Under the **Acquire->Defaults** menu, select the number of scans and the number of increments. Suggested values 4 or 8 scans, 200 or 256. For less concentrated samples increase the number of scans. Increasing the number of scans or increments can greatly increase the experiment length. Be sure to update the experiment time before submitting the study. Select the carbon window appropriate for all the carbons present in the molecule to be studied. The multiple bond coupling constant can also be set from this window (suggested 8 Hz).



5. In the **Acquire->Pulse Sequence** menu, the one-bond coupling constant can be selected. A coupling constant of 140 Hz is the default. This is fine for most samples. Aromatic samples may require a larger coupling constant (suggested 160 Hz).

