Instructions for Eclipse 300+ NMR

Loading the Sample

Open **Delta** by double-clicking on the Delta Icon

Open the **Spectrometer Control Window** by clicking the  button

Open the **Sample Window** by clicking the Sample button

Eject the spinner by clicking the  button

Remove the NMR tube from the spinner and insert your tube

Use the depth gauge to check the tube's depth

Place the spinner on top of the ejection air

Insert the spinner by clicking the  button

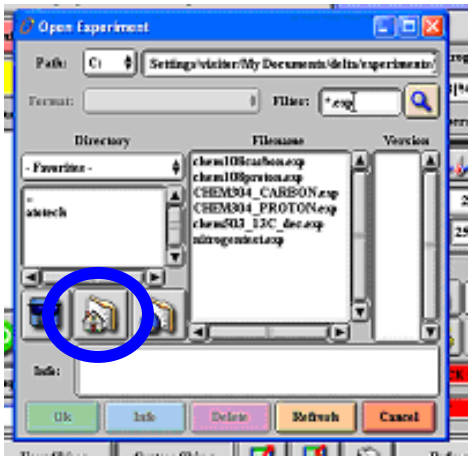
Start the spinner by clicking the  button

Lock and shim the instrument on your sample by clicking the  Button

When the Shimming is completed, the Lock and Shim fields will stay green

Open the **Experiment Window** by clicking on the Expmnt button in the **Spectrometer Control Window**

Click the "Home" button to open the available experiment files



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Acquiring a Spectrum

Proton

Select “CHEM304_PROTON.exp” as the experiment under “Filename” and click “OK”

The **Experiment Tool Window** will now open

Enter a name for your sample in the SampleID field

Start the experiment by clicking 

and then 

When the experiment is completed, the spectrum will appear in the **Process 1D Window**

Integrate the spectrum by clicking the  button

Print your spectrum by clicking the  button and then “OK”

Carbon

Select “CHEM304_CARBON.exp” as the experiment under “Filename” and click “OK”

The **Experiment Tool Window** will now open

Enter a name for your sample in the SampleID field

Click the “Acquisition” tab and change the number of scans to 100

Start the experiment by clicking 

and then 

When the experiment is completed, the spectrum will appear in the **Process 1D Window**

To pick peaks, open the Cursor Tool Bar by clicking  in the top right corner of the spectrum

Click “Select” and drag down to “Peak” to display the Peak tools

Use the “Force Select Peak” tool to pick peaks and display each chemical shift

Print your spectrum by clicking the  button and then “OK”

Expanding Regions

To expand a portion of your spectrum, open the Cursor Tool Bar by clicking  near the top right corner

Click “Select” and drag down to “Zoom” to display the zoon tools

Use the magnifying glass to select the portion of your spectrum you want to expand

To maximize the peak height, press the “END” key

To display the entire spectrum, press the “HOME” key

Print your spectrum by clicking the  button and then “OK”