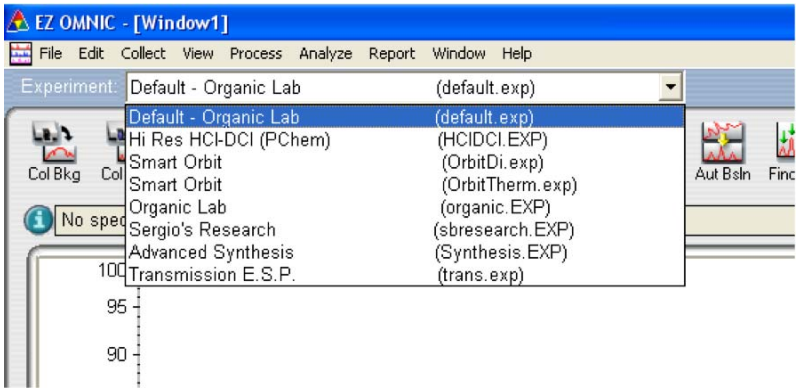
Using the Nicolet 380 FTIR (Organic Chemistry)

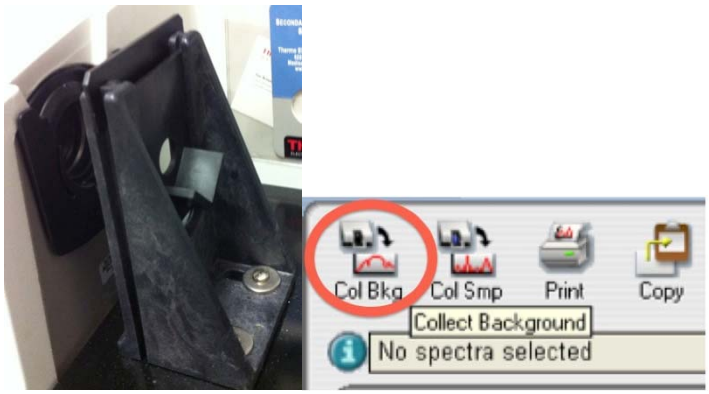
Data Acquisition

- 

  Double Click on the EZ OMNIC icon on the desktop.

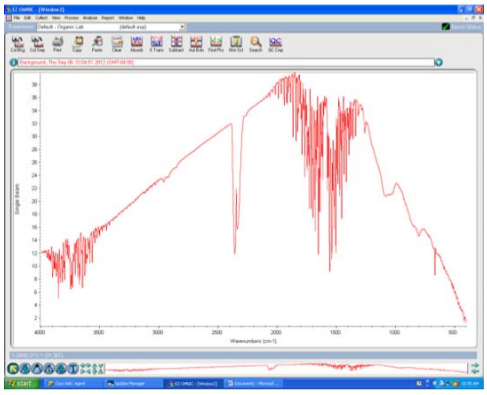
- 

  Select **Default – Organic Lab** from the experiment list.

- 

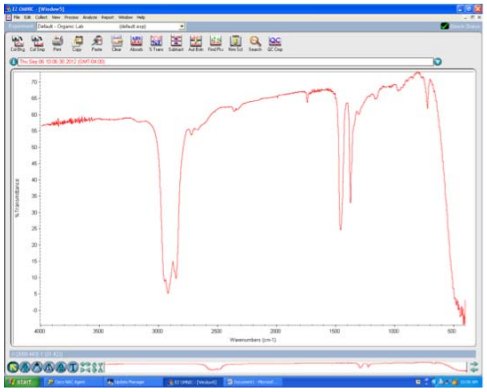
  Make sure the sample holder is empty.

  Click on the Collect Background (Col Bkg) icon on the menubar.



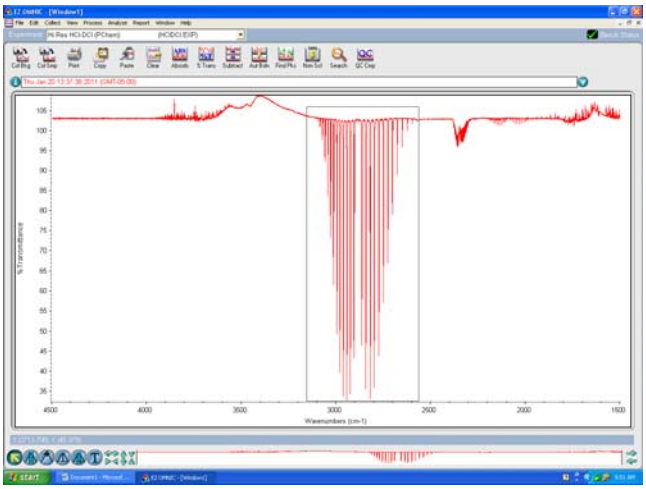
-  

  Place your sample in the FTIR. Click on the Collect Sample (Col Smp) button on the menu bar.

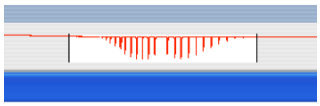
- 

  After scanning for a few minutes, the spectrum will appear on the screen.

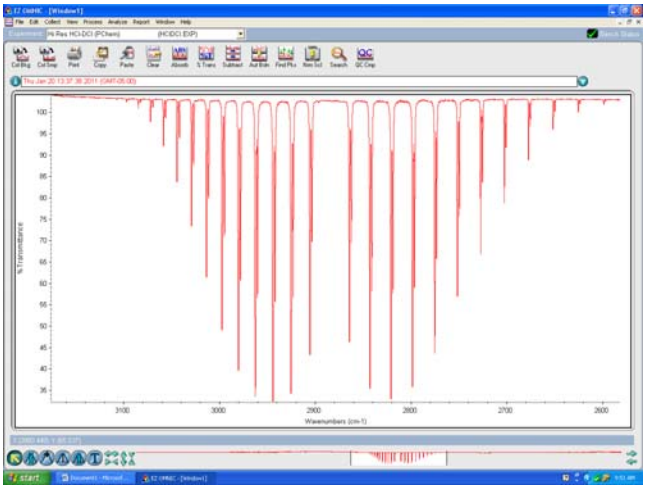
Zooming In/Out

- 

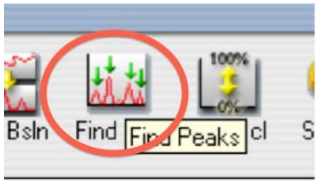
  Making sure the cursor button is highlighted in the lower left corner of the window,  , draw a rectangle around the region of the spectrum you wish to enlarge. Once you have selected the region, single click with the mouse inside the rectangle.

- 

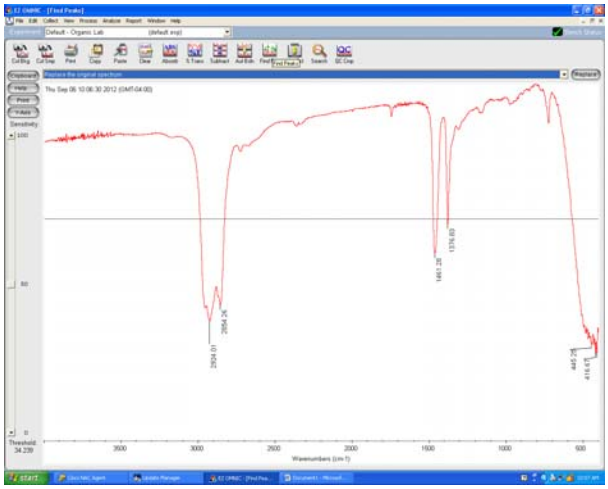
  You can always *zoom out* by double clicking on the highlighted region of the mini-spectrum in the lower part of the screen.



Peak Picking

- 

  Click on the Find Peaks icon on the menu bar to locate the positions of the peaks in your spectrum.

- 

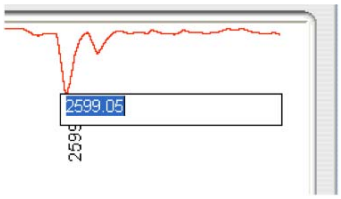
  If you click on the screen, a horizontal line will appear at this location. Any peaks that go below the line will be *picked*, and their positions will be annotated on the spectrum. If peaks appear to be missing, then move the Sensitivity slider (on the left hand side) to higher numbers—if extra peaks are being identified, then move the Sensitivity slider to lower numbers.

- 

  Once you are satisfied with the peak picking, click on the Replace button on the menu bar.

- 

  Small peaks that were not automatically picked by the software, can be manually picked. Zoom in/out to the desired point on the spectrum, and then click the Annotate button. It is located in the lower left corner of the window. Click close to the bottom of the peak to pick it.

- 

  Once you are done annotating, click on the selection tool in the lower left corner ().

Printing

- 

Click the Print icon in the toolbar