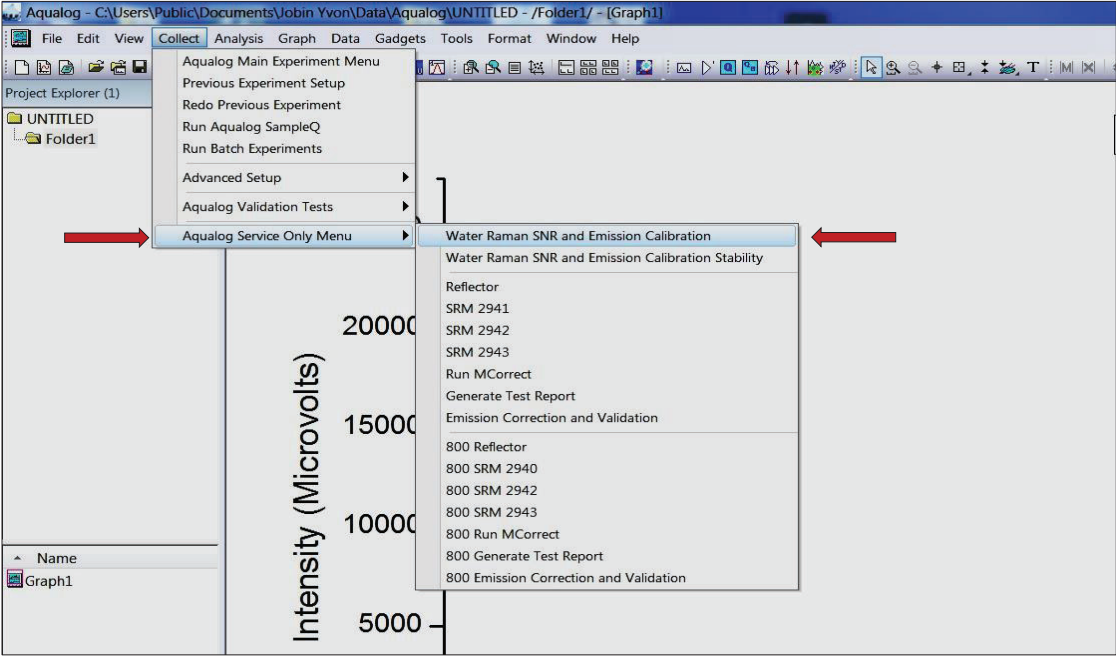
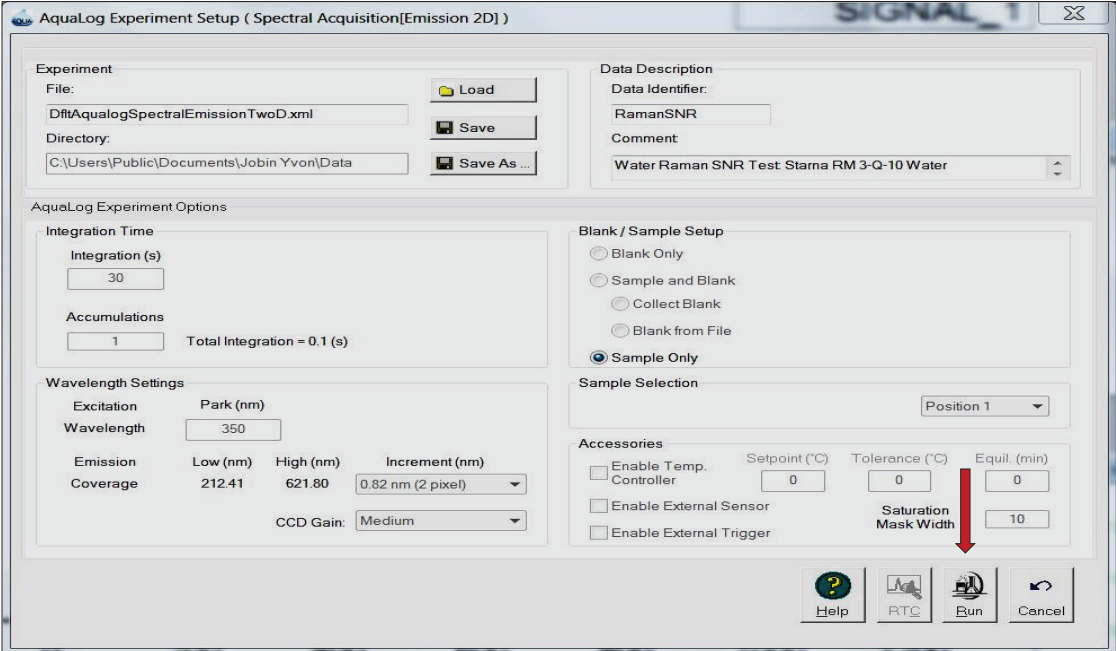


14d. Water Raman Test

A water Raman validation test is performed when the CCD is replaced. The procedure is as follows:

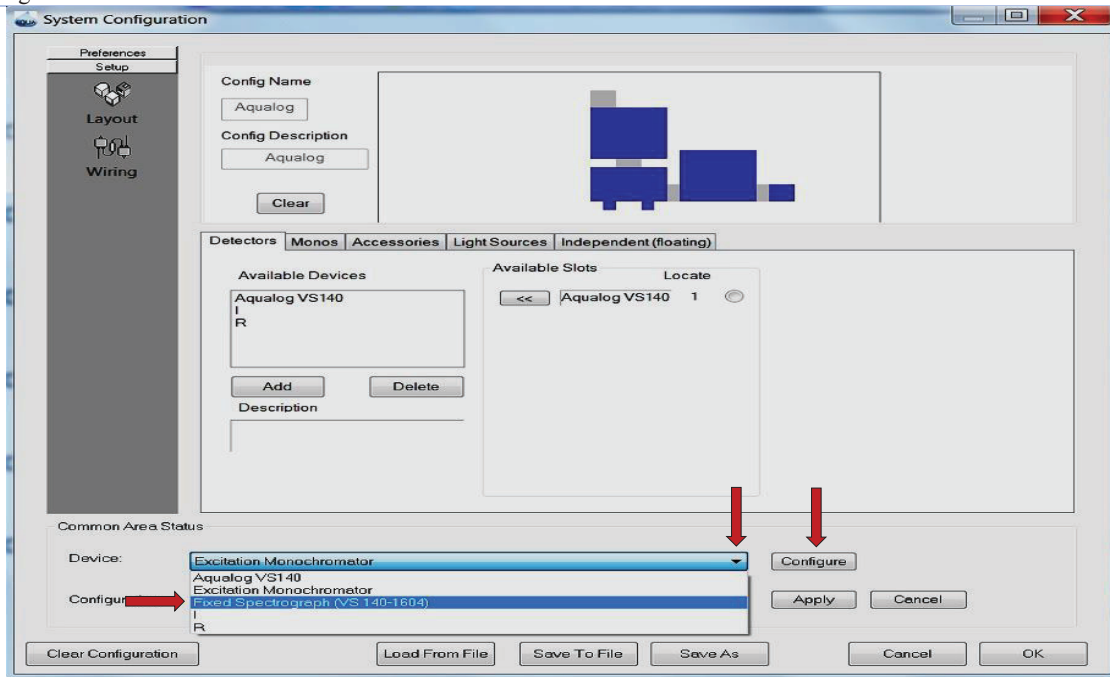
WATER RAMAN TEST	
Step #	Action
1	<p>Open the Aqualog software. Click the collect tab to open the dropdown. Select the “Aqualog Service Only Menu” followed by the “Water Raman SNR & Emission Calibration.”</p> 
2	<p>Since parameters are already set, click the “Run” button.</p> 

WATER RAMAN TEST, CONTINUATION

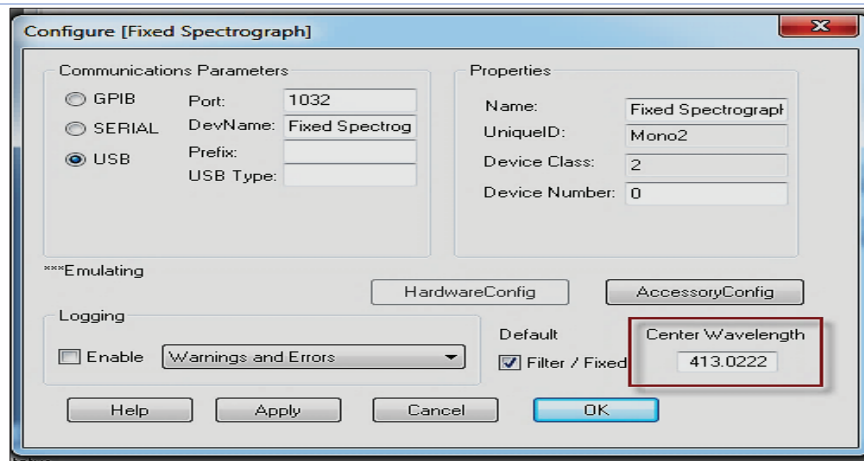
Step #	Action
3	<p>A pop-up window appears telling the user that the experiment is running. The test actually takes about 30 seconds.</p> <div><div>Experiment Status</div><div>EXPERIMENT IS RUNNING ...</div><div><div></div></div><div>Abort</div></div>
4	<p>When the second pop-up window appears, click “Cancel.”</p>
5	<p>The spectrum appears with a pass or fail report. The peak should be at 397 ± 1nm.</p> <div><div><div><div>Sgnl (e)</div><div><div></div></div></div><div><div></div><div>Wavelength (nm)</div></div></div><div><div>Emission: Water Raman (ex: 350nm)</div><div><div>Raman peak wavelength (nm)</div><div>397.0</div></div><div><div>SNR</div><div>161351</div></div></div><div><div>Spec</div><div>397 +/- 1 nm</div></div><div><div>Result</div><div>Pass</div></div></div>
	<div><div><div>STOP</div></div><div><p>If the test gets a pass, the validation test is complete. Technician can return to the work at hand.</p><p>If the test fails, proceed to step 6.</p></div></div>
6	<p>Click the collect tab to open the dropdown. Select “Advanced Set Up” and then “Configuration.”</p> <div><div><div>Aqualog - C:\Users\Public\Documents\Jobin Yvon\Data\UNTITLED * - /Folder1/ - [RamanSNR (03)]</div><div><div>File</div><div>Edit</div><div>View</div><div>Collect</div><div>Analysis</div><div>Plot</div><div>Column</div><div>Worksheet</div><div>Statistics</div><div>Image</div><div>Tools</div><div>Format</div></div><div><div>Project Explorer (1)</div><div><div>UNTITLED</div><div>Folder1</div></div></div><div><div>Aqualog Main Experiment Menu</div><div>Previous Experiment Setup</div><div>Redo Previous Experiment</div><div>Run Aqualog SampleQ</div><div>Run Batch Experiments</div><div>Advanced Setup</div><div>Aqualog Validation Tests</div><div>Aqualog Service Only Menu</div></div><div><div>Configuration</div><div>ReInitialization</div></div></div></div>

WATER RAMAN TEST, CONTINUATION

- | Step # | Action |
|--------|---|
| 7 | On the “Device” row, click the arrow to open the dropdown and select “Fixed Spectrograph VS-140-1604.” Then, click “Configure.” |

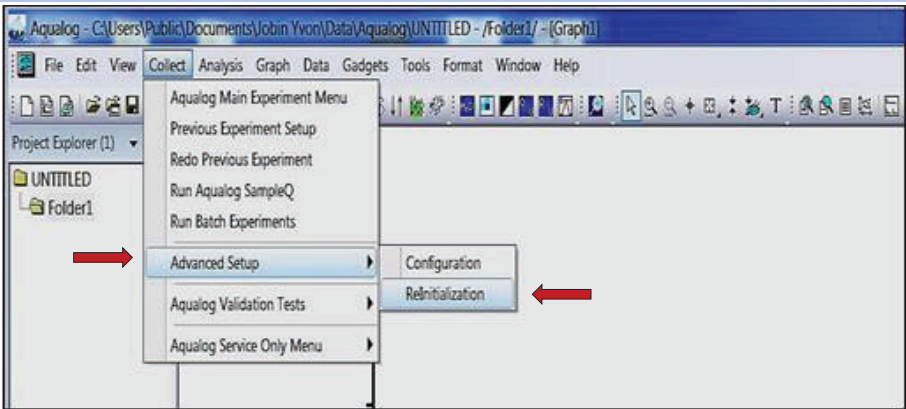
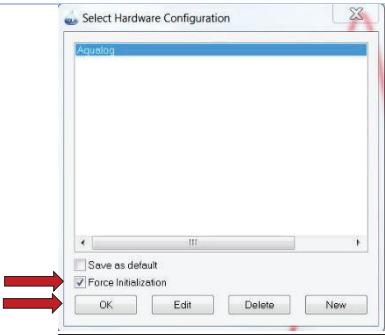


- | | |
|---|--|
| 8 | Change the center wavelength. For example, if the observed peak is off by 1 nm, then add or subtract 1nm from the center wavelength. |
|---|--|



- | | |
|---|--|
| 9 | Click “OK” twice to return to the main screen. |
|---|--|

WATER RAMAN TEST, CONTINUATION

Step #	Action
10	<p>Click the “Collect” tab to open dropdown. Select “Advanced Set Up” and then “Reinitialization.”</p> 
11	<p>At the next window, check the “Force Initialization” box and click “OK.”</p> 
12	Repeat steps 1-5 to run a second Water Raman test.
13	If the system gets a pass, the technician may return to the work at hand.