VARIAN

SERVICE How To

Model Number:	Originator:	Topic
PS 325 UV-Vis	**Des Wichems**	**Wavescan Procedure**

WaveScan Procedure:

Make sure to use a flow cell of which you know that it has no problems and fill it with HPLC grade water. Make sure there is nothing in the flow cell that can reduce your signal throughput such as bubbles, dark liquids etc.

Procedure:

1. Open the LC Verify software and enable the diagnostic (Ctrl-Shift-F10) module. Connect to the module of interest in the *Detector tab* and turn on the D_2 lamp (20-30 min warm up)

2. Go to the *Diagnostic tab* and select the *Mono Options tab*

3. Make sure that the WaveScan options duplicate the ones shown below (Fig 1)

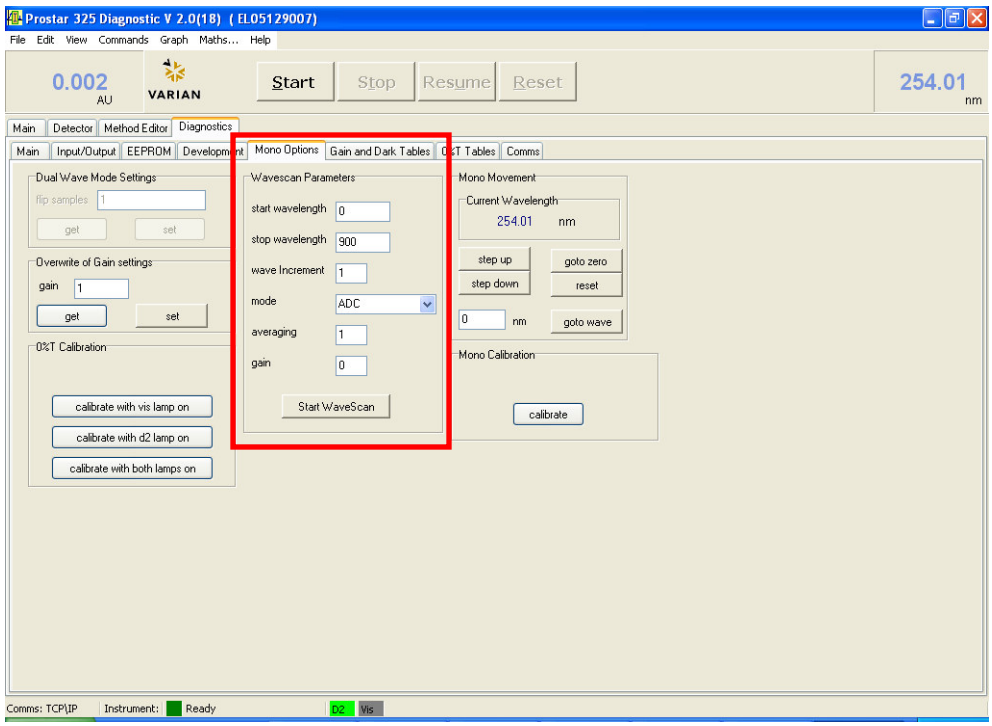

Figure 1

4. Press the *Start WaveScan* button. This will start the WaveScan and send you to the Main Tab where you can se the graph shown in Fig 2.

5. When it gets to the end of its wavelength range (1) shown in Fig 2 you can update the graph by pushing the  button at the top of the graph toolbar (2) or you can keep hitting the expand graph button above every few seconds.

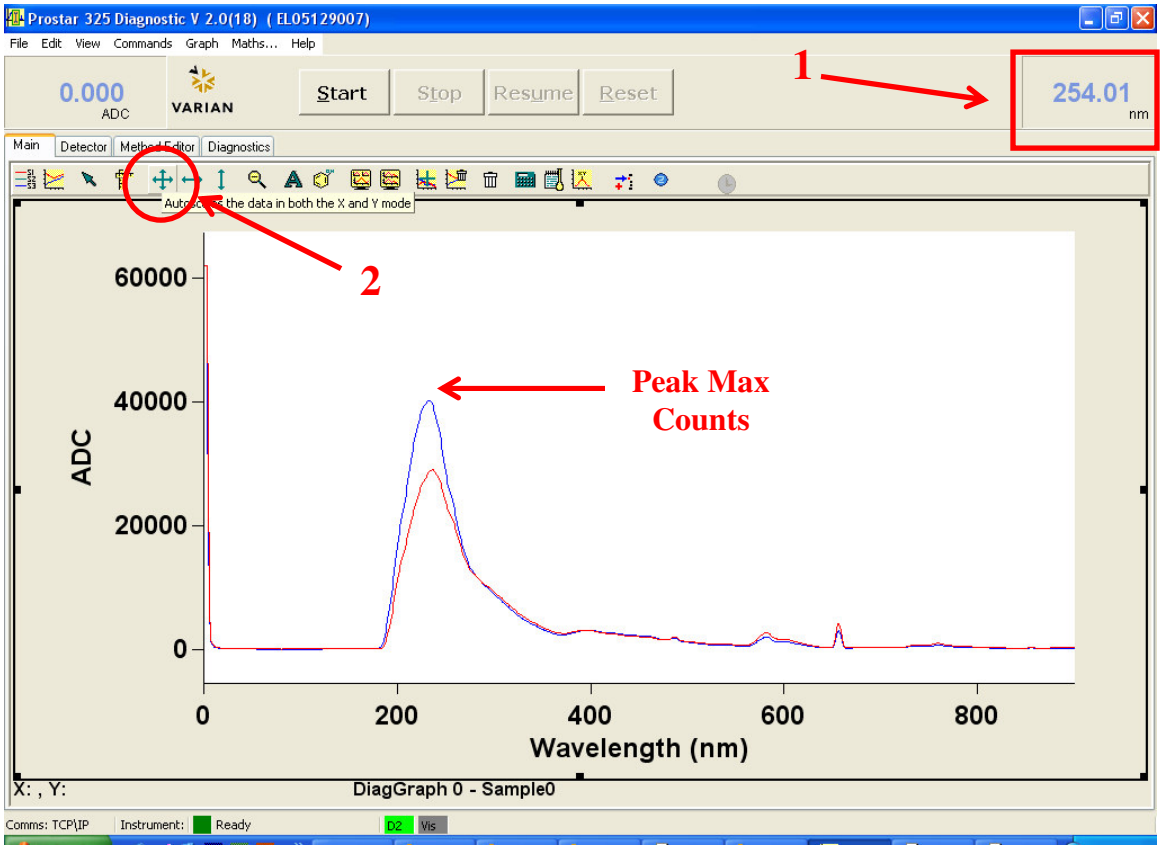

Figure 2

Your WaveScan should look something like the one shown above. Depending on when your detector was made, there have been some changes in the gain and gradient mask which will change the intensity of the raw ADC counts. In all cases, you should have at least 6,000 counts. If you don't see at least 6,000 counts, please repeat this wavescan procedure using a new D_2 lamp. The current shipping models have anywhere between 40,000 and 60,000 counts. Don't be misled by the raw counts, they don't necessarily correspond (at least not directly) to sensitivity and performance of the instrument.