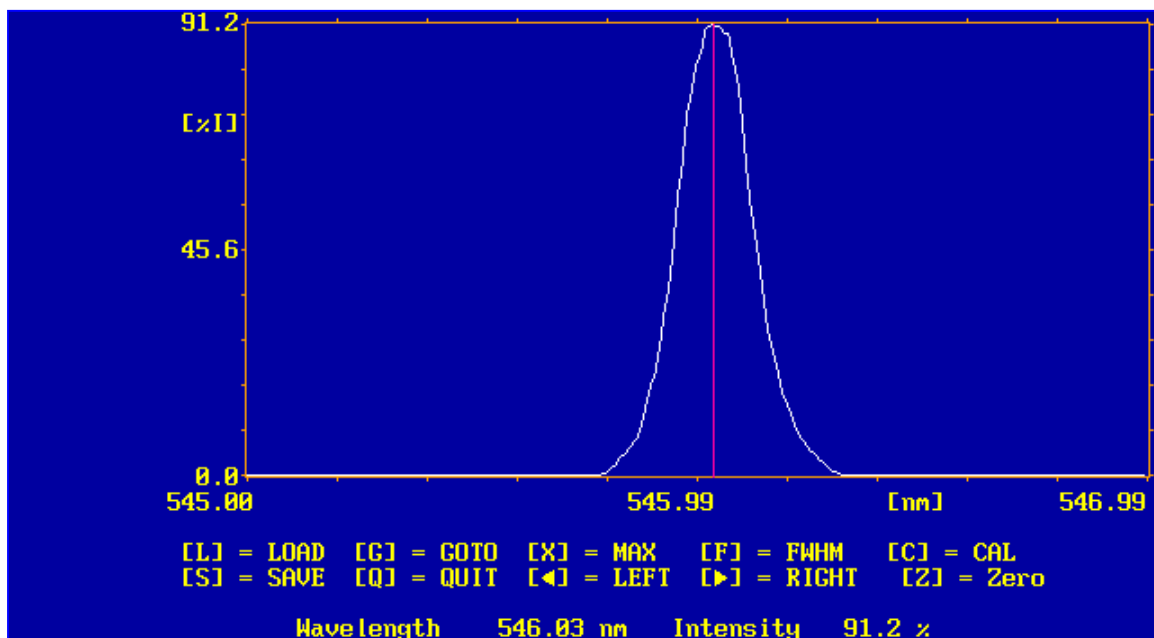


As the grating rotates and the image of the entrance slit (green) approaches the exit slit (black), there is no light exiting the monochromator. Once the entrance slit image begins to overlap the exit slit opening, the output intensity increases until the

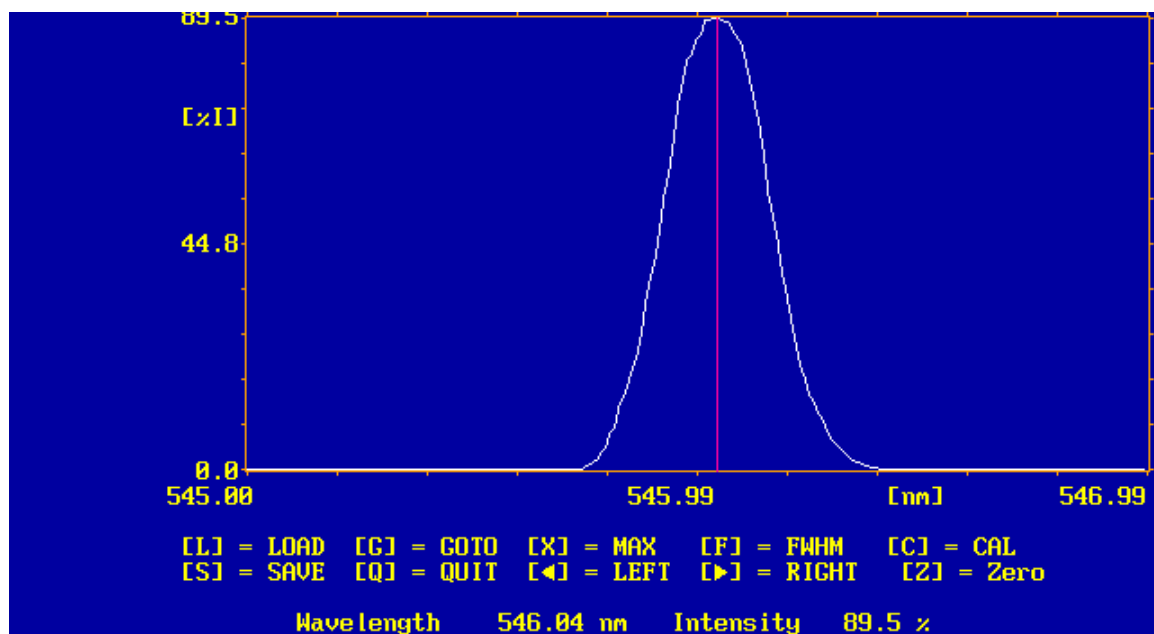


UNILATERAL SLIT WAVELENGTH SHIFT:

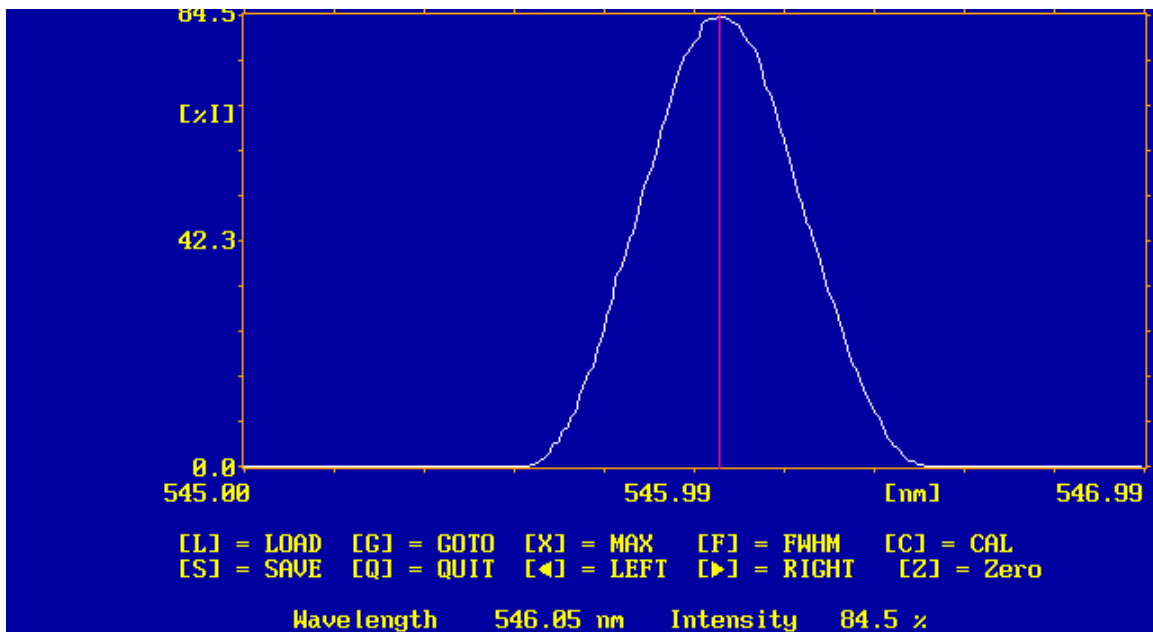
As the slit width is increased, the center (peak) wavelength will shift slightly. This can be seen in the scans below. The greater the slit opening, the greater the peak wavelength shift will be.



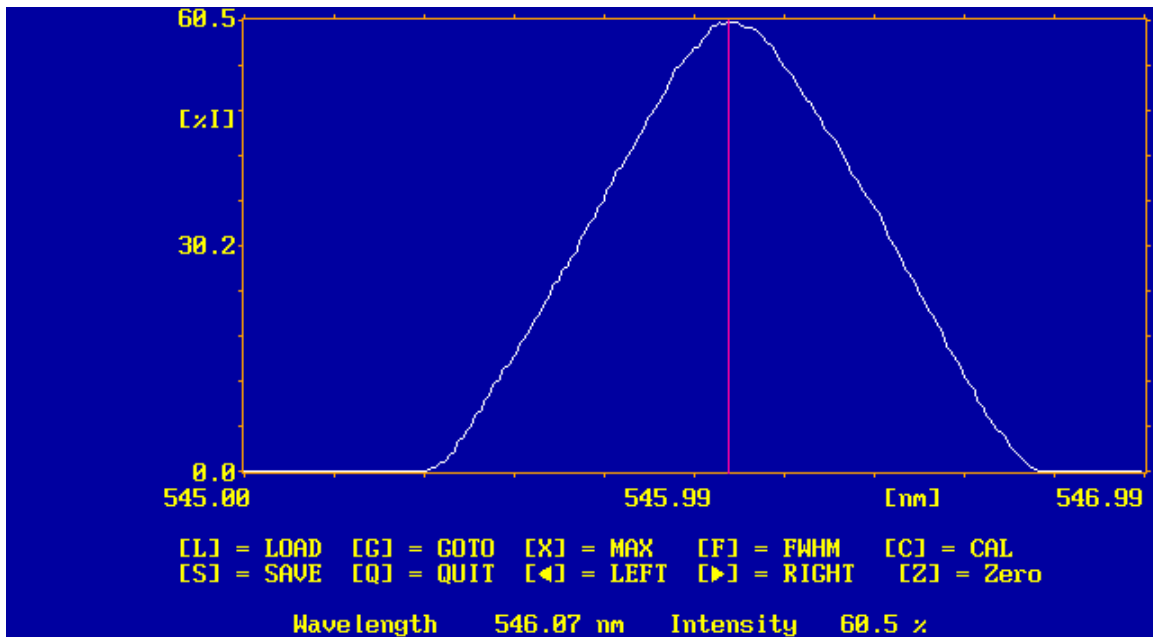
The scan above was taken with 10-micron wide entrance and exit slits. Peak wavelength is at 546.03nm.



The scan above was taken with 50-micron wide entrance and exit slits. Note the peak wavelength has shifted by .01nm.



This scan was taken with 100-micron wide entrance and exit slits. The peak has again shifted by .01nm from the previous scan.



Finally, this scan was taken with 200-micron wide slits. Here the peak has shifted by .02nm from the previous scan.

