Raman Users,

Occasionally the Raman system has problems with very low counts on the Si or you are seeing the laser as a line instead of a spot.

This might occur because of a system crash, after which a dialog box comes up and you are asked to "re-reference the motors." Then the optics might start out in a "bad" position where some of the light is blocked as it passes toward the Rayleigh filter. So after re-reterencing, even if you don't see a laser beam on the sample, just run a measurement and the optics position should correct itself. If it looks like the optics on the linefocus motor are staying in a "bad" position after you run a measurement follow the procedure below.

1) From the Tools menu, choose "Reference Motors"
2) Choose "Reference selected motors" and highlight in the list to the left ONLY "Linefocus motor"
3) Click on "OK"
4) Go through the following process below for moving the optics to "Good"

To move the wheel to the GOOD position, first choose the laser "785 nm Linefocus" if you are using 785 nm or "SM 488 nm Raman Linefocus" if you are using 488 nm. This will move the wheel to close to the WORST position. Then choose the laser "Multi-Line Fiber Raman". This should rotate the wheel to the GOOD position. Open the spectrometer door and check the wheel position. If it is not in the GOOD position, close the door, and choose the "Linefocus" laser setting you used before , and then try again "Multi-Line Fiber Raman". Repeat until the wheel is in the GOOD position. Then pick the laser your normally use. If this repeatedly fails, then start the entire process with the other linefocus laser setting than you started with.

GOOD

BAD

VERY BAD

WORST