

A1 Q.C. Check list

*****CAUTION (for A1si)*****

Please check that correct wavelengths are entered in Elements software.

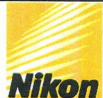
This is very important so the laser masks are in the proper position.

A1 S	S/N	40035
LU-N4	S/N	40494
LU Controller	S/N	455407
Detector Unit GaAsP	S/N	59350
Computer	S/N	2UA6051L1P
Spectral Detector	S/N	

Laser Unit

OK All safety labels are on lasers and Laser Unit.

Laser Power Measurements

	<i>Laser 1 405</i>	<i>Laser 2 488</i>	<i>Laser 3 561</i>	<i>Laser 4 640</i>
<i>From Fiber</i>	16.67	16.87	16.95	16.98
<i>Offset</i>	2.4	1.6	2.7	2.3

Extinction Ratio Measured Through a Polarizer

	<i>Maximum Power</i>	<i>Extinction Power</i>	<i>Extinction Ratio</i>
<i>Laser1</i>	7.05	0.04	176:1
<i>Laser 2</i>	13.61	0.07	194:1
<i>Laser 3</i>	14.04	0.11	127:1
<i>Laser 4</i>	14.38	0.08	179:1

OK All screws and bolts are tight after final alignment.

OK Latest version of Elements installed. Version 4.50b1117

OK PMT Offset Calibration

OK Point Scan Calibration

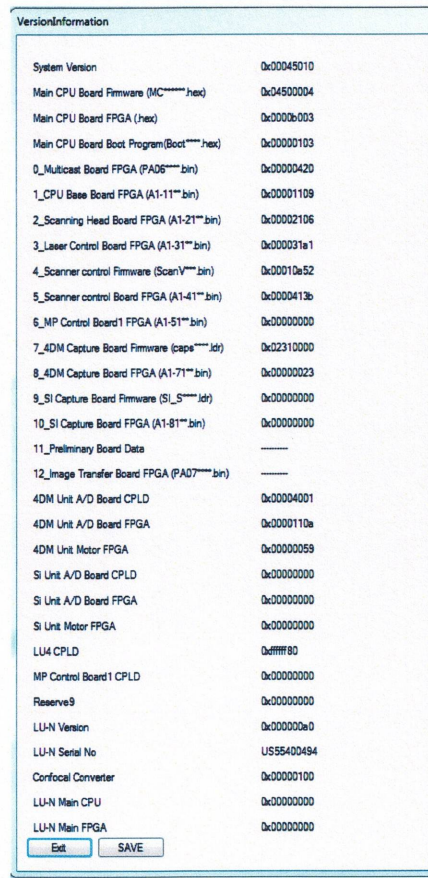
OK Zooming Parcentricity

OK Bi-Directional Check. Resonant and Galvo

OK Simultaneous Stimulation test.

OK X/Y Time experiment.

OK Firmware updated to current versions



AOTF and Modulated Laser Measurements

OK Calibration of the Lasers

	100%	50%	25%	10%	1%	0%
Laser 1	8.85	4.63	2.40	0.992	0.113	0.00
Laser 2	9.21	4.24	2.42	1.00	0.109	0.00
Laser 3	9.33	4.87	2.53	1.08	0.130	0.00
Laser 4	9.34	4.82	2.49	1.04	0.121	0.00

Date: 2/24/16

Technician: Tom DiDonato