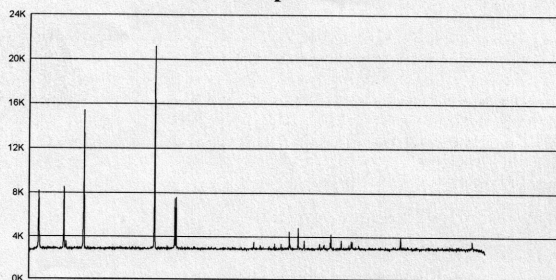


Test Spectrum



Wavelength Calibration Data Sheet

Built for: **ML Optic Corp USA**
 Order Number: **1428069**
 Model: **Maya2000Pro**
 Grating: **GRATING_#H38 - 400 lines/mm**
 Bandwidth: **349 - 1026 nm**
 Options: **DET2U-350-1000 Detector, NoneLens, INTSMA-010 Slit,**
 Serial Number: **MAYP115014**

λ	Pixel #	Predicted λ	$\Delta\lambda$
365.015	45	365.006	0.009
404.656	158	404.649	0.007
435.834	248	435.812	0.022
468.014	341	468.026	-0.012
479.992	376	479.990	0.002
481.053	379	481.053	0.000
546.074	569	546.083	-0.009
557.029	601	557.040	-0.011
576.959	660	576.971	-0.012
579.065	666	579.068	-0.003
587.091	690	587.093	-0.002
602.999	737	602.990	0.009
607.434	750	607.430	0.004
621.728	793	621.740	-0.012
626.649	807	626.645	0.004
630.479	819	630.483	-0.004
636.235	836	636.228	0.007
640.225	848	640.222	0.003
643.847	858	643.860	-0.013
653.288	887	653.281	0.007
659.895	906	659.900	-0.005
667.828	930	667.823	0.005
696.543	1017	696.522	0.021
738.398	1144	738.373	0.025
753.577	1190	753.565	0.013
763.511	1220	763.483	0.028
794.818	1316	794.796	0.022
805.950	1351	805.940	0.010
826.452	1414	826.428	0.024
842.465	1464	842.439	0.026
849.535	1486	849.548	-0.013
852.144	1494	852.124	0.020
912.297	1683	912.308	-0.011
916.265	1696	916.263	0.002
922.450	1715	922.441	0.009
965.779	1853	965.786	-0.007
979.970	1899	979.964	0.006
992.319	1938	992.328	-0.009

This is a sample of calibration peaks used as there were more than can be shown on this page

Calibration Coefficients

First Coefficient: 0.3516545892
 Second Coefficient: -9.39143e-006
 Third Coefficient: -4.38391e-010
 Intercept: 349.16708374
 Regression Fit: 0.9999995828

Stray Light Measurements (AU)

Holmium Oxide (444nm): 1.79
 Yellow Dye: 2.34
 Blue Dye: 2.76
 Molybdate: N/A
 OG550 Filter: 2.36
 RG850 Filter: 3.38
 FG3 Filter: 1.26

Debra Jenkins

Calibrated By: Debra.Jenkins
 Calibrated: 09-March-2020

Linearity Test

Serial Number **MAYP115014**

Tech Debra.Jenkins

Linearity: **99.89635**

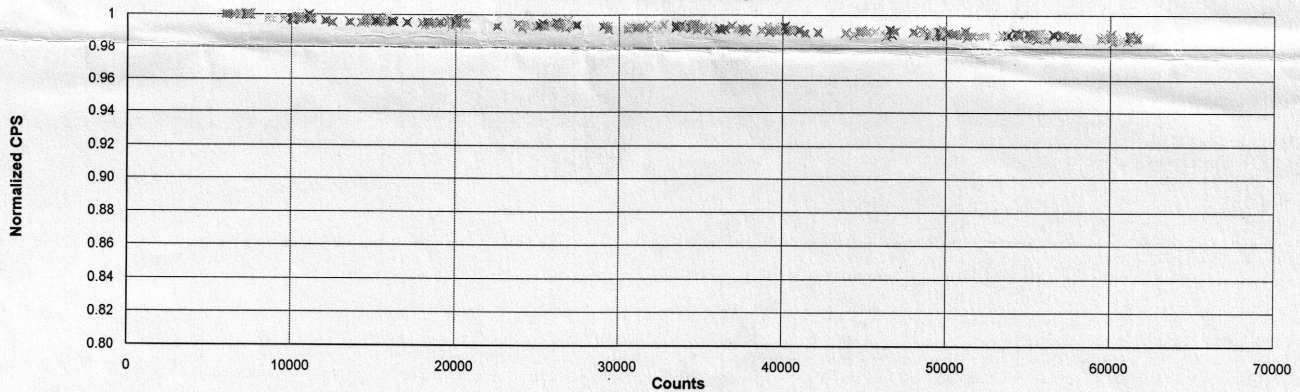
Tested 3/9/20

Test # 246,298.00

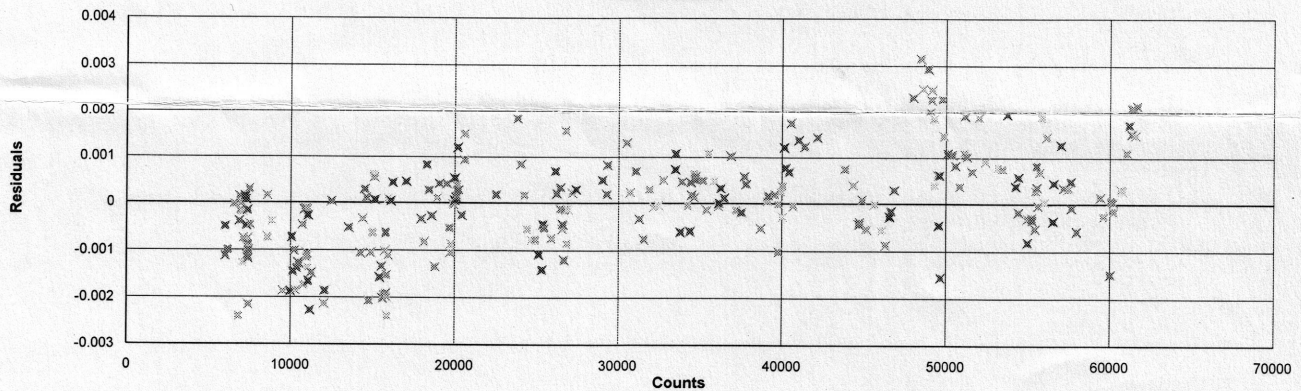
Intercept 1.00523
Coefficient 1 $-8.67401\text{e-}007$
Coefficient 2 $3.7461\text{e-}012$
Coefficient 3 $2.09781\text{e-}015$
Coefficient 4 $-1.06802\text{e-}019$
Coefficient 5 $2.28492\text{e-}024$
Coefficient 6 $-2.32217\text{e-}029$
Coefficient 7 $9.20002\text{e-}035$



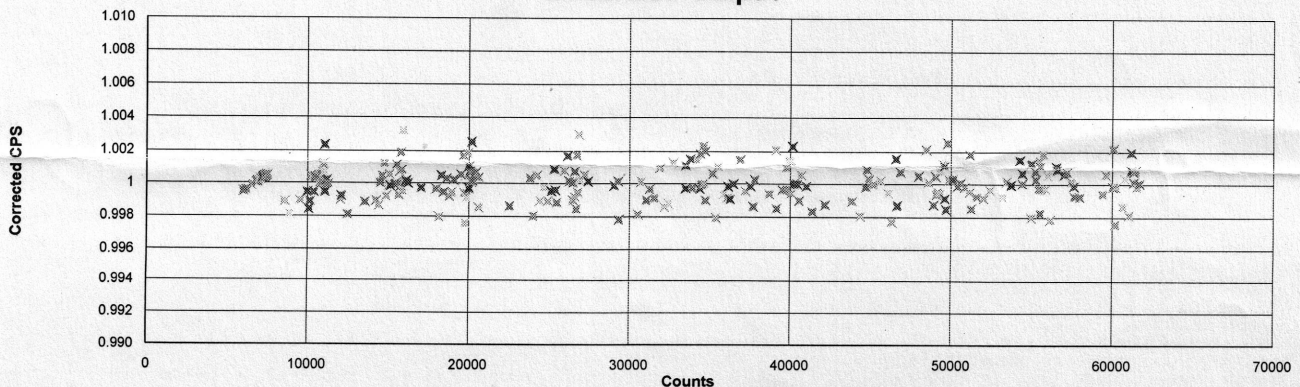
Normalized Output



Residuals



Linearized Output



Max 1.00316200

Min 0.99757160