Resonon Test Report – Wedge Window Realign

Identification Data	
Date	October, 2019
Resonon SN	100124-6
Instrument Name	RS06
Andor Camera SN	CCD-16344

Configuration	
Filters Installed	
1. 540-900 nm bandpass filter. See Figure 1.	
Sensors Installed	
1. 10K Ohm Thermister: Digikey part # 615-1010-ND; 3 units. 2. Humidity Sensor: Digikey part # 480-3294-1-ND	
Fiber bundle info: Leoni 800 µm core fibers. See Figure 2.	
Grating: Aug. 2015 Batch.	

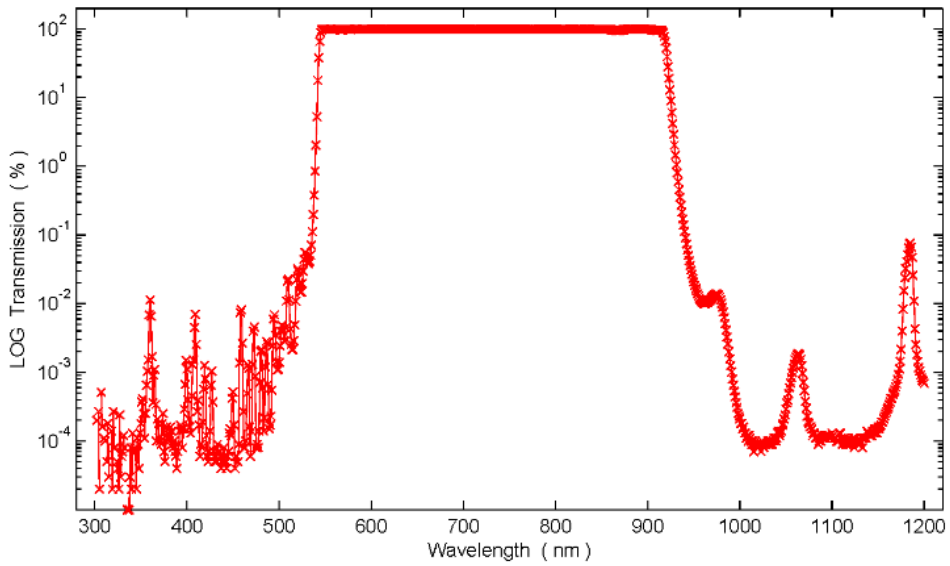

Figure 1: Bandpass filter on front face of 1st prism

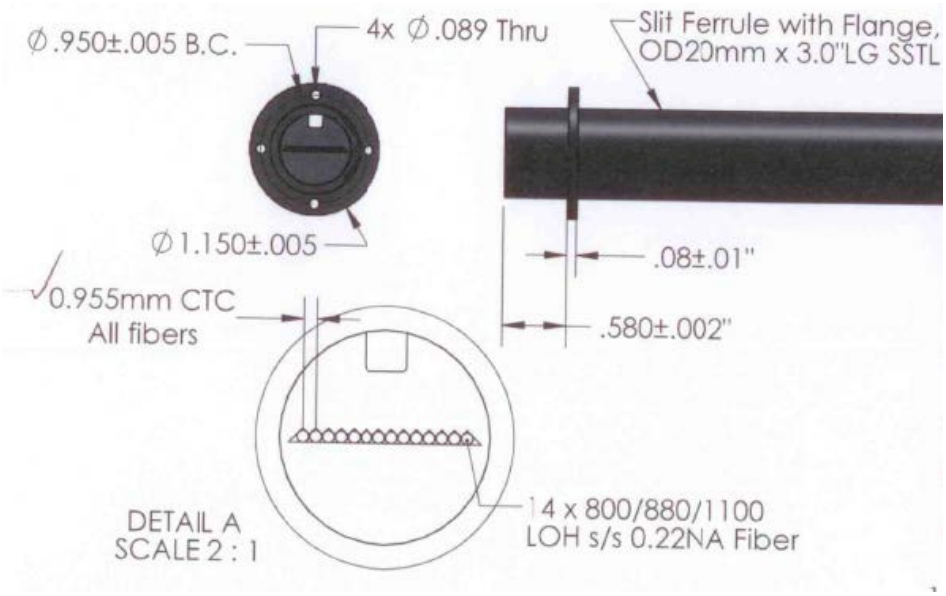

Figure 2: Leoni Fiber details

Test Summary	
Smile (Peak to Trough)	
@ 587 nm	.7 pixels
@ 705nm	.2 pixels
Keystone (Peak to Trough)	
Channel 1	2.5 pixels
Channel 7	0.5 pixels
Channel14	4 pixels
Spectral Resolution (FWHM)	
@ 587 nm	1.1 nm
@ 705 nm	1.1 nm

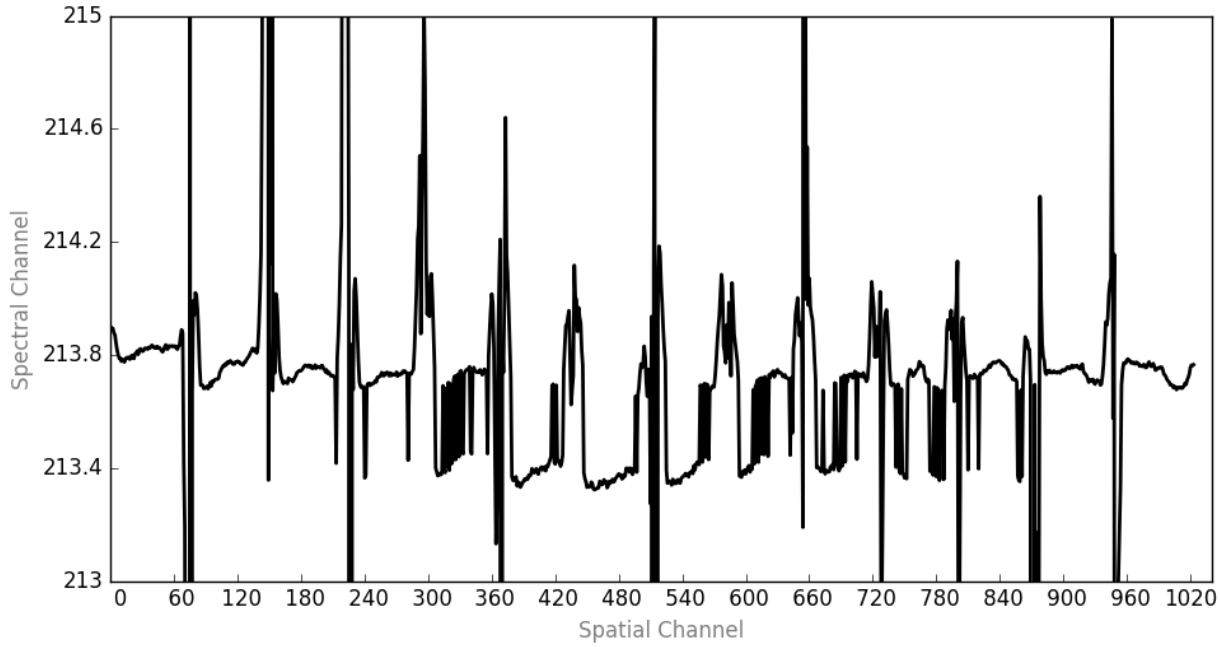

Figure 3: Smile at 587 nm. Horizontal axis is spatial channels and vertical axis is spectral.

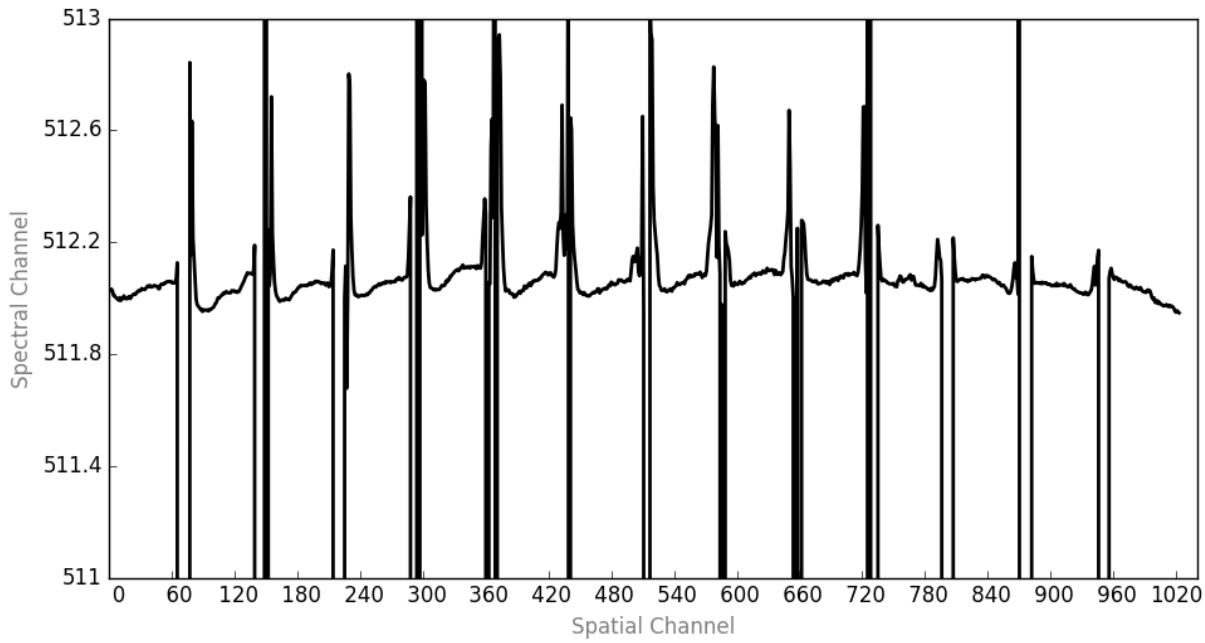

Figure 4: Smile at 705 nm.

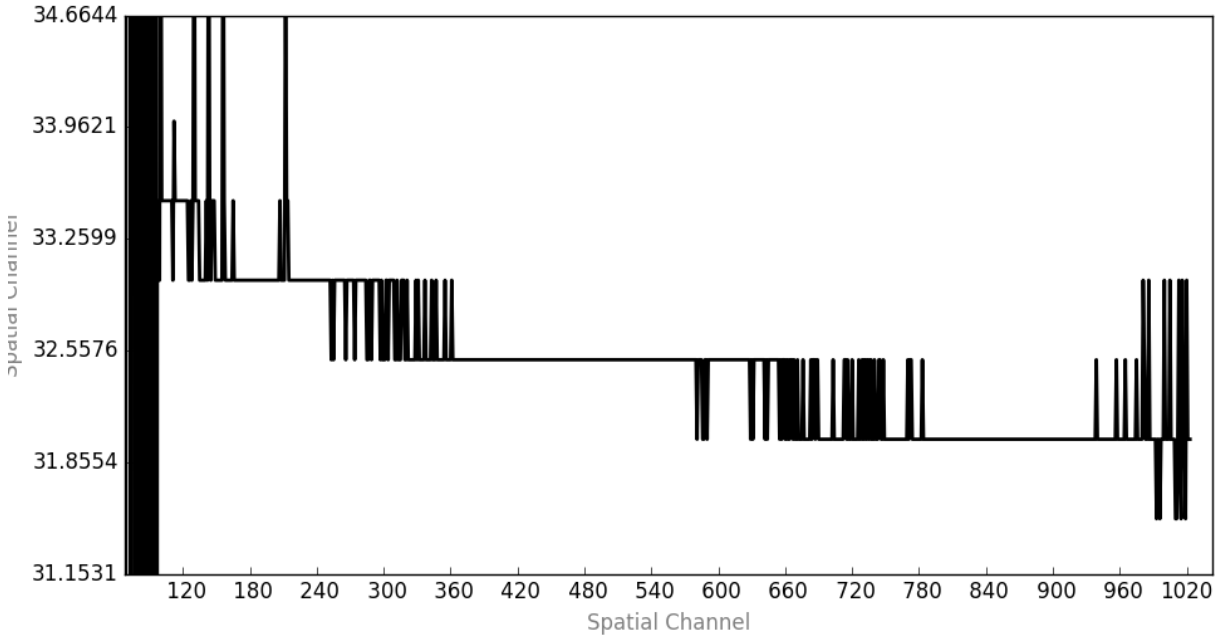

Figure 5: Channel 1 keystone. Horizontal axis is spectral channels and vertical axis is spatial.

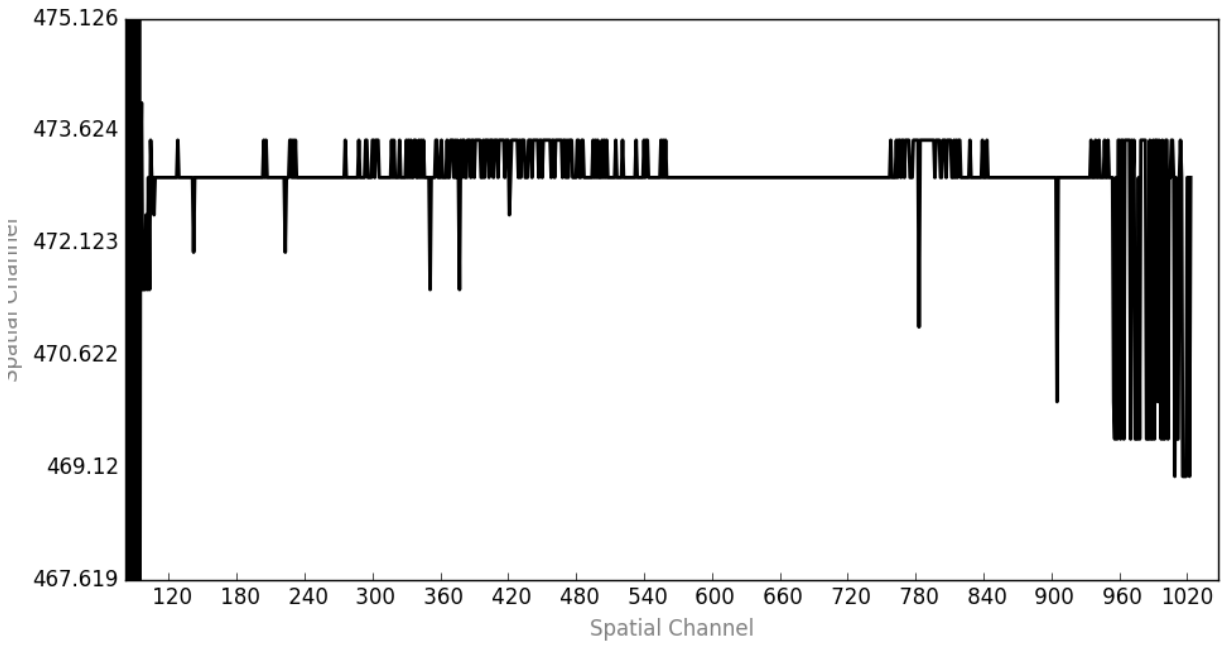

Figure 6: Channel 7 tilt

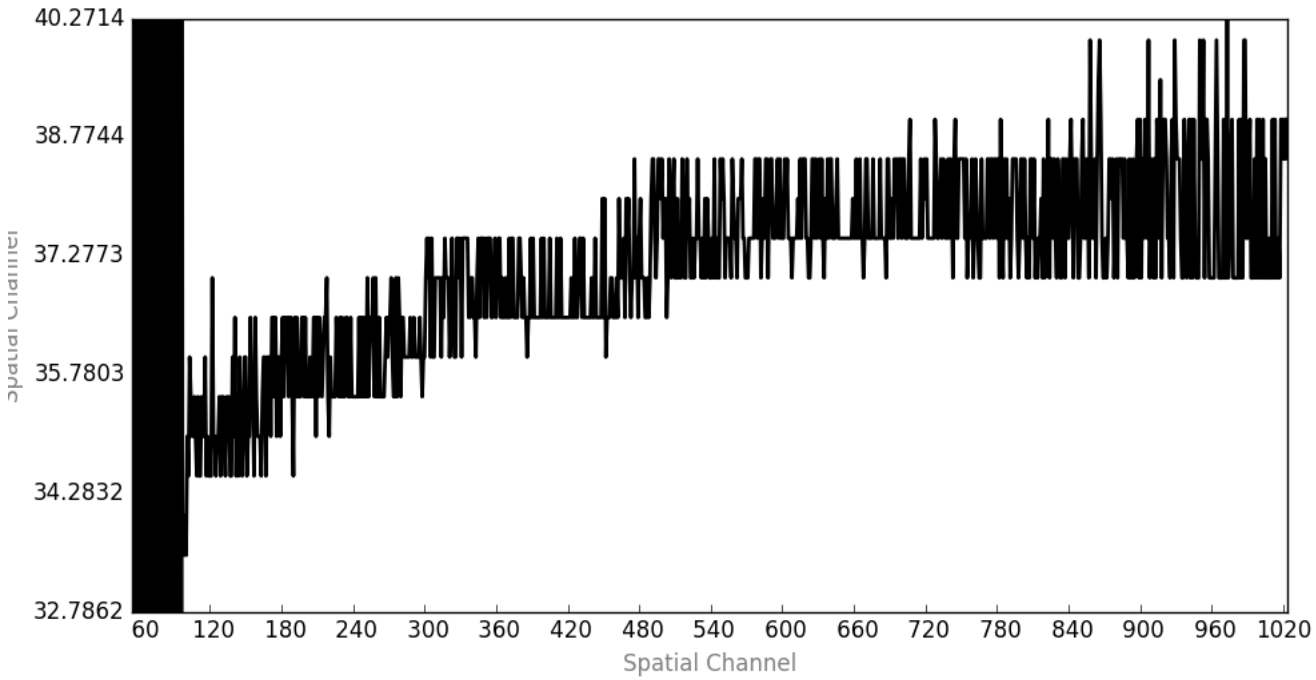

Figure 7: Channel 14 keystone.

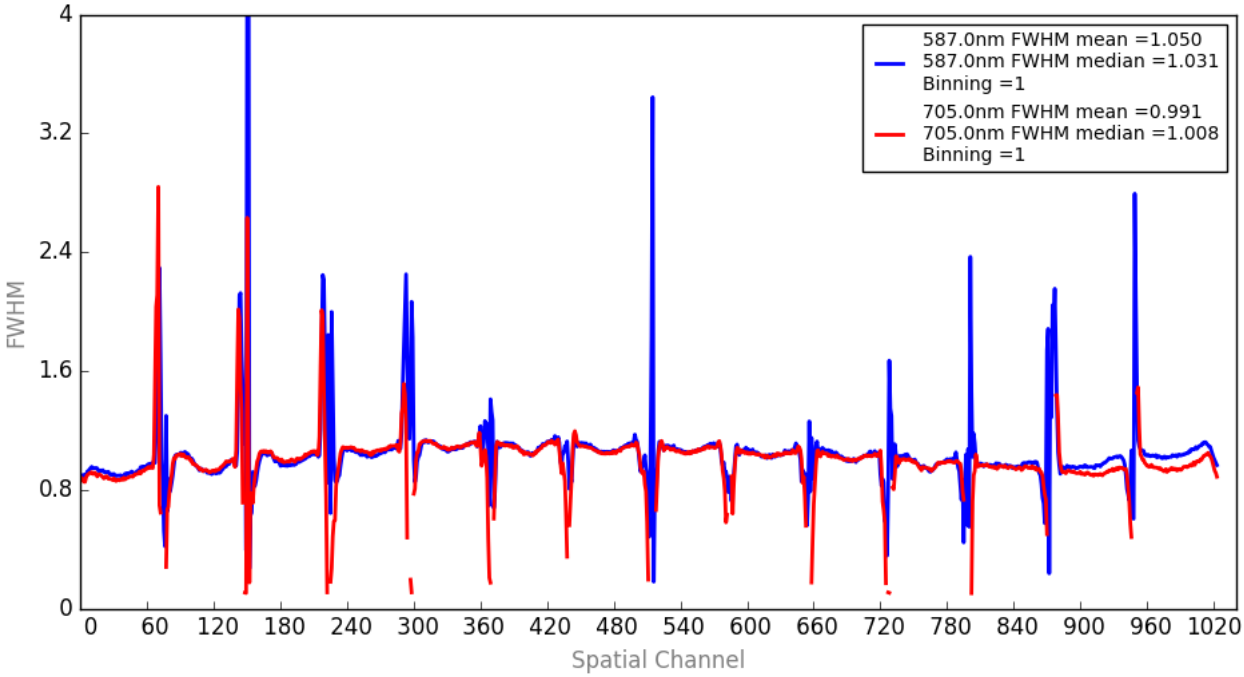

Figure 8: Spectral widths vs. spatial position. Guassian peak fitting calculated a FWHM of ~1 nm.

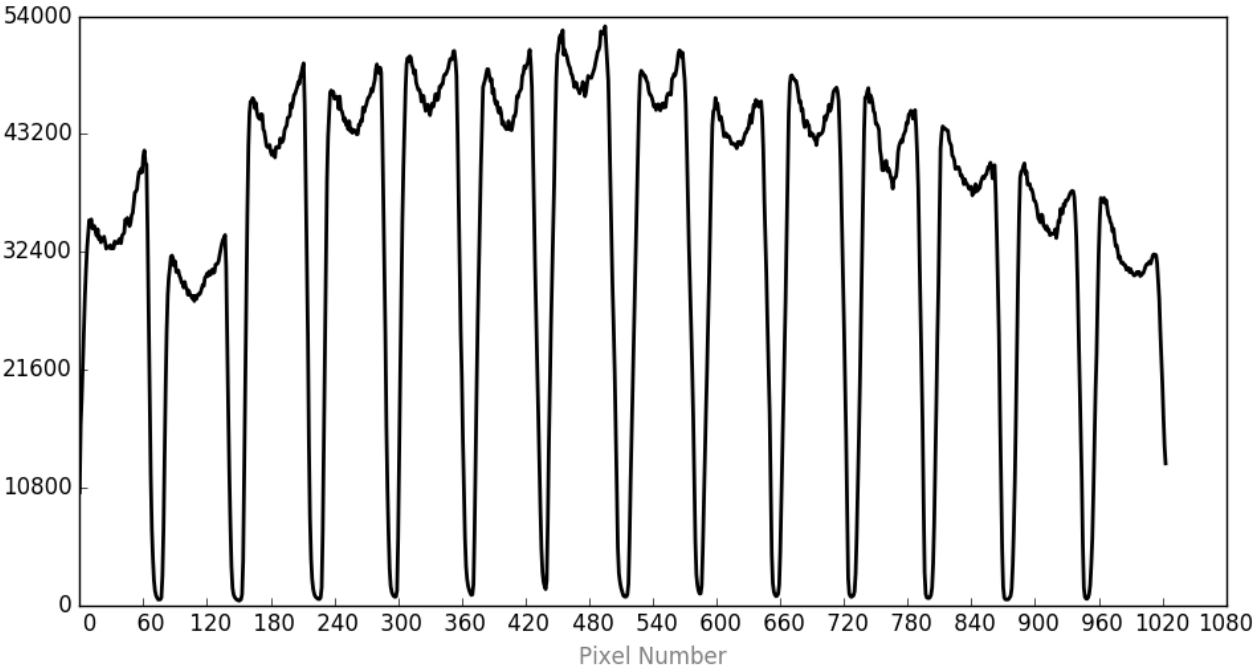

Figure 9: Cross section of all fibers.

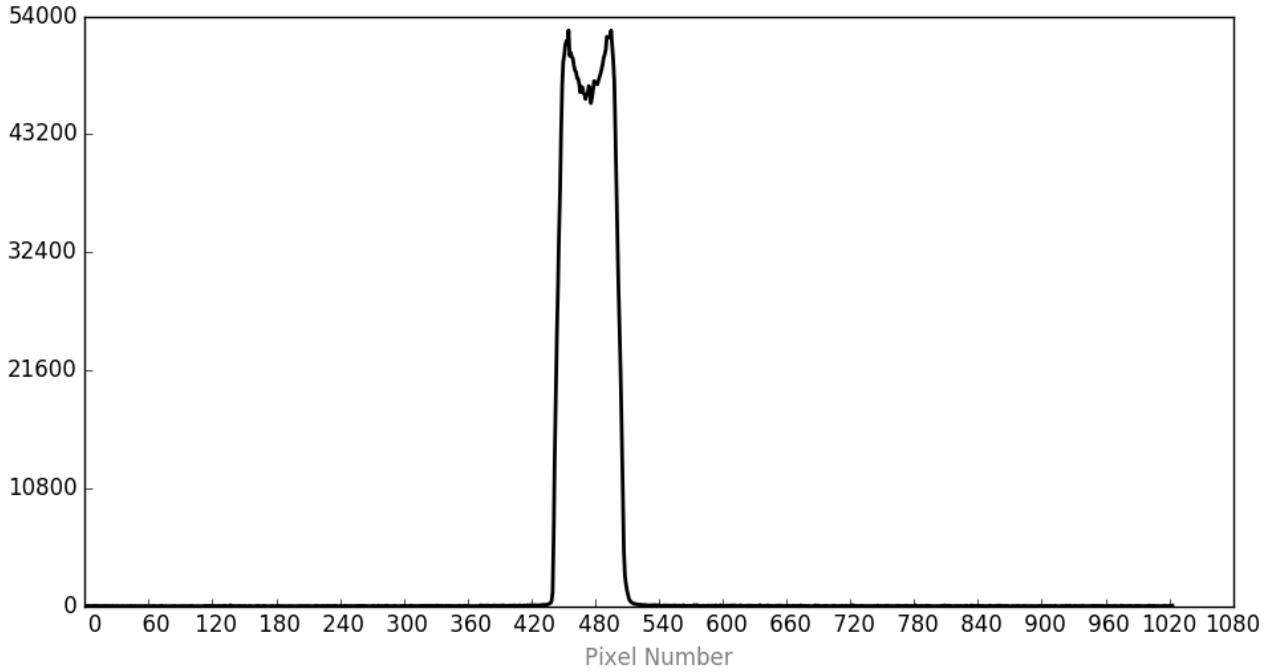

Figure 10: Cross section of channel 7.