# PACE OCI QVD Analysis

Gene Eplee July 2, 2019



### QVD Trends Along Scan and Along Track



The telescope spot size is computed for the camera geometry.

The along-scan plot is from top to bottom of the image.

The along-track plot is from left to right in the image.

The along-track trends are normalized by the Spectralon panel trends.



### QVD Uniformity Along Track



Using the QVD normalized reflectance measurements for the center of the QVD, as determined from the bracket hole positions, overestimates of the radiance reflected by the diffuser in the along-track direction are computed as follows:

Overestimate = (Sum((reflectance at center) \* (telescope spot size)) -Sum(reflectance trend over telescope spot)) / Sum(reflectance trend over telescope spot)

Overestimate of QVD reflected radiance:Red channel:0.8% overestimateGreen channel:1.8% overestimateBlue channel:1.6% overestimate

#### QVD Uniformity Along Scan



## **Backup Slides**

#### **Spectralon Panel**



