

specRQC: Spectral Unmixing Quality Control Report

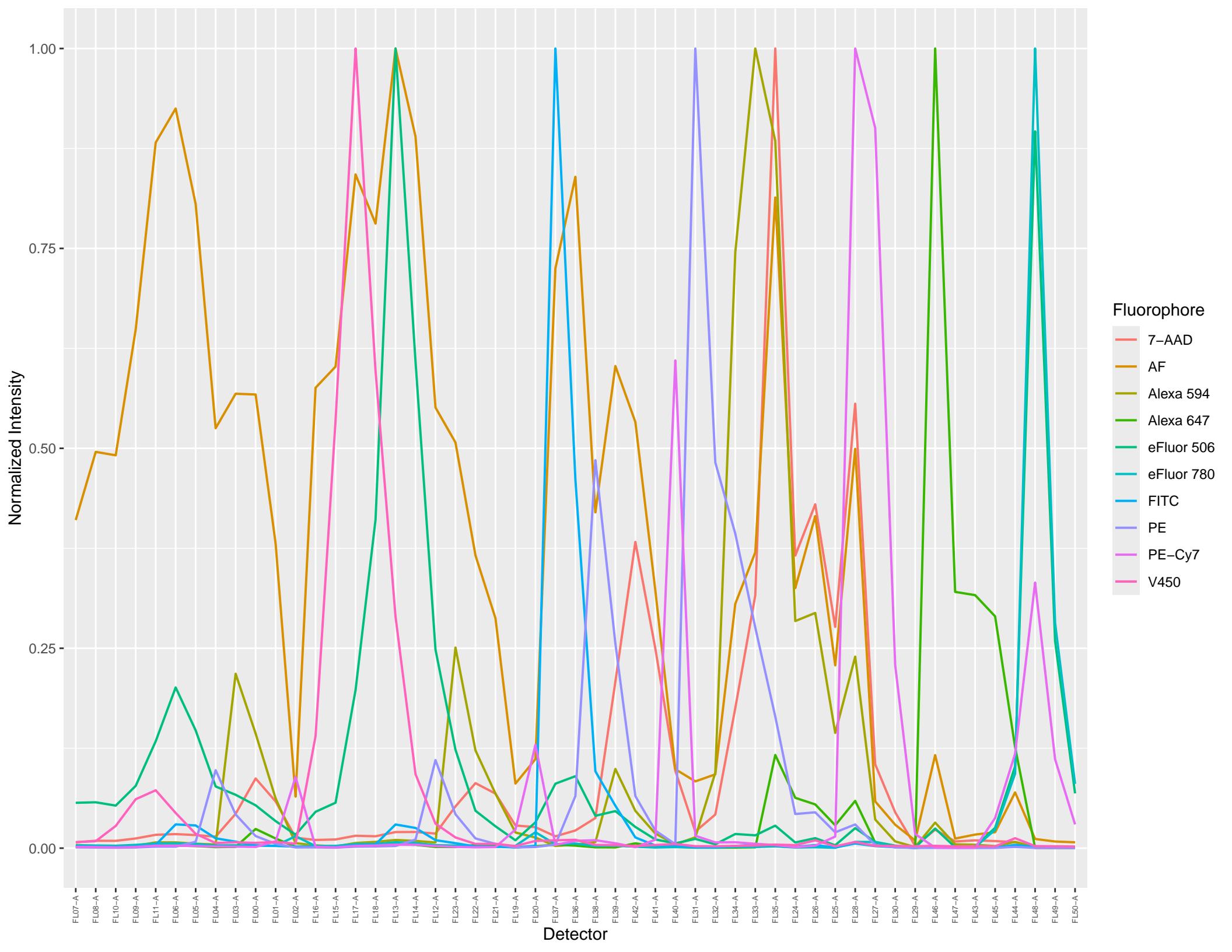
Generated on: 2025-12-27 12:01:44.772649

Files Processed: 2

Total Markers: 10

Global Median RRMSE: 0.35

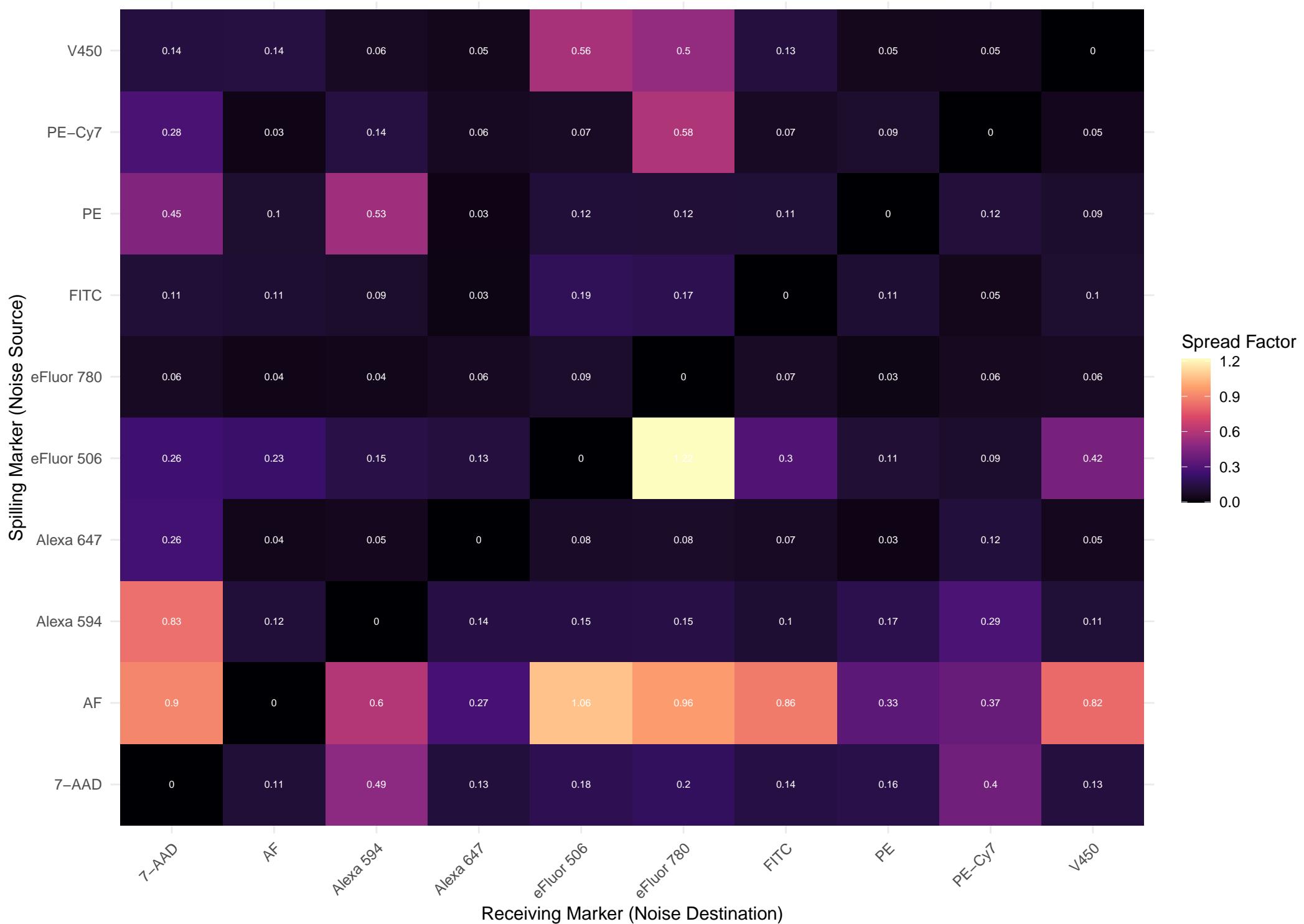
Global Mean RRMSE: 0.49%



Spectral Spread Matrix

Rows: Source of noise (spilling marker). Columns: Destination of noise (receiving marker).

Values represent the standard deviation increase in column J caused by signal in row I.

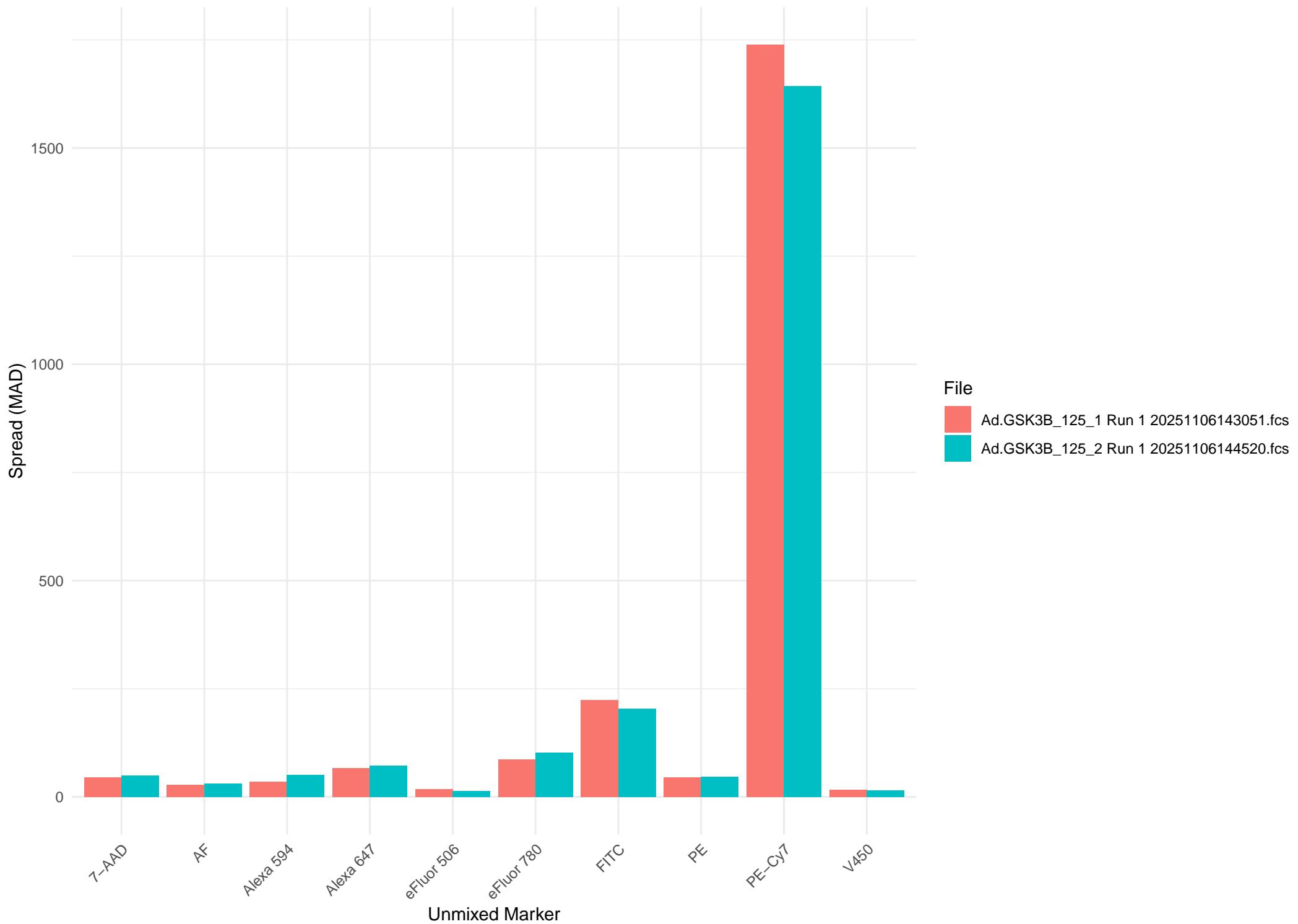




Negative Population Spread (Unmixing Noise Floor)

High MAD indicates unmixing-induced spreading error.

This is often caused by spectral overlap with bright markers in the sample.



Residual Contributions for Top 50 High-Error Cells

Positive residuals = under-explained signal; Negative = over-explained

