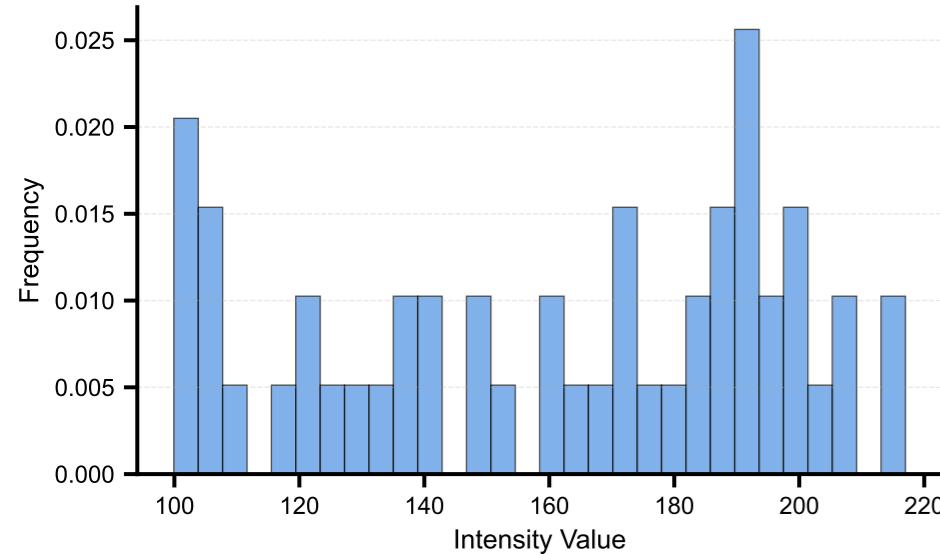
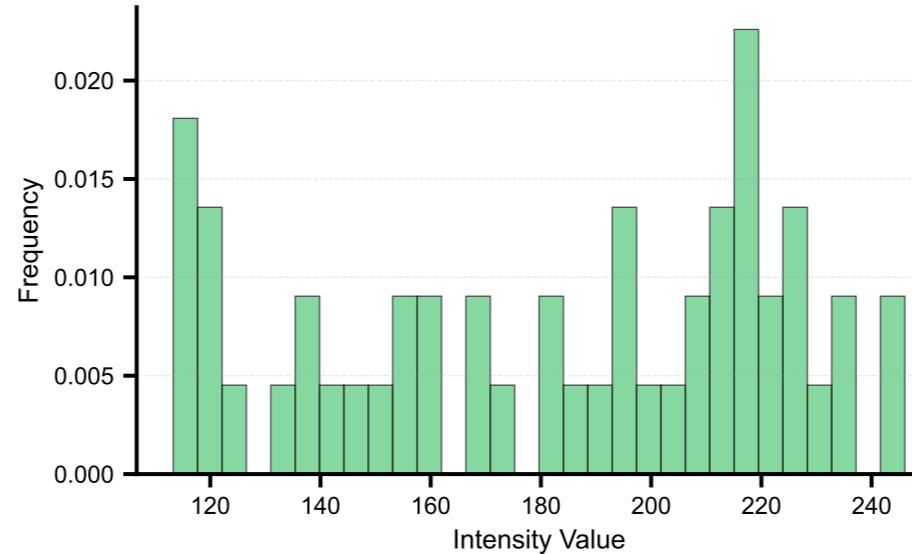


Fluorescence Microscopy Analysis: Detailed Channel Characterization

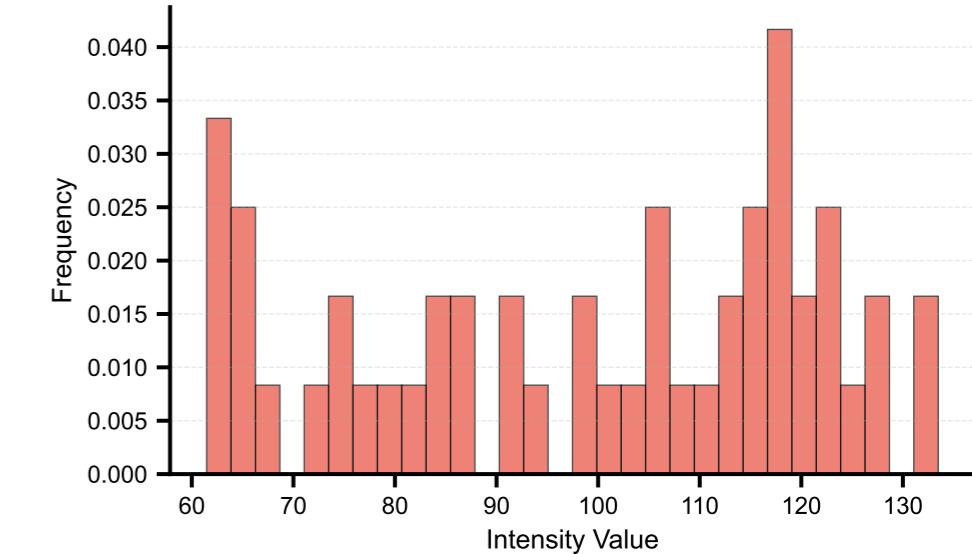
A. Intensity Histogram: DAPI



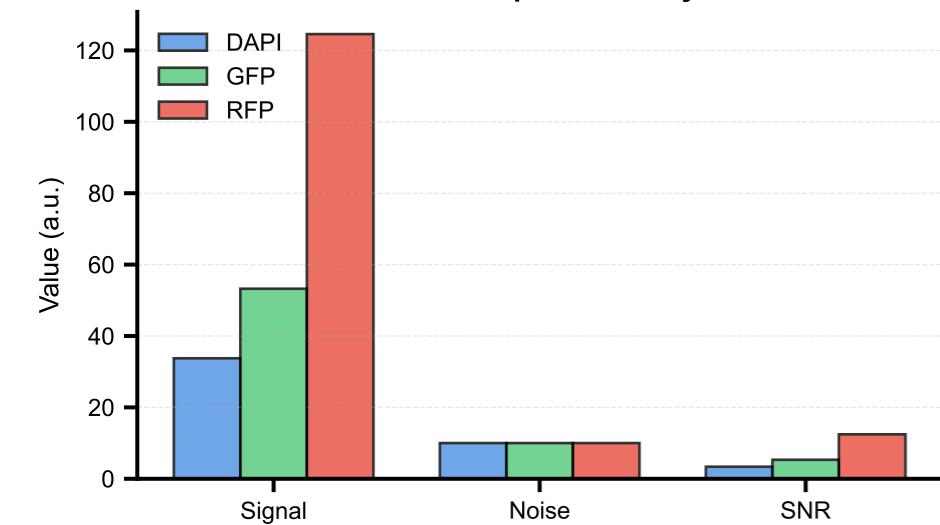
B. Intensity Histogram: GFP



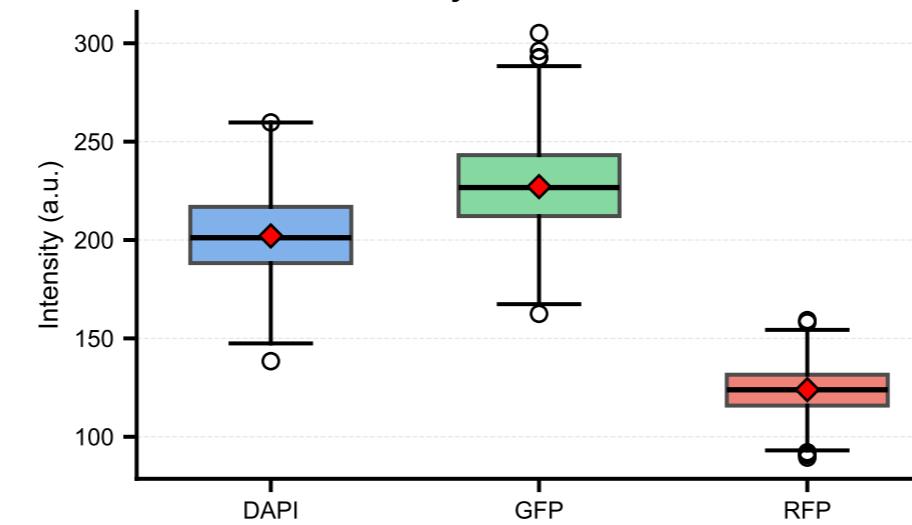
C. Intensity Histogram: RFP



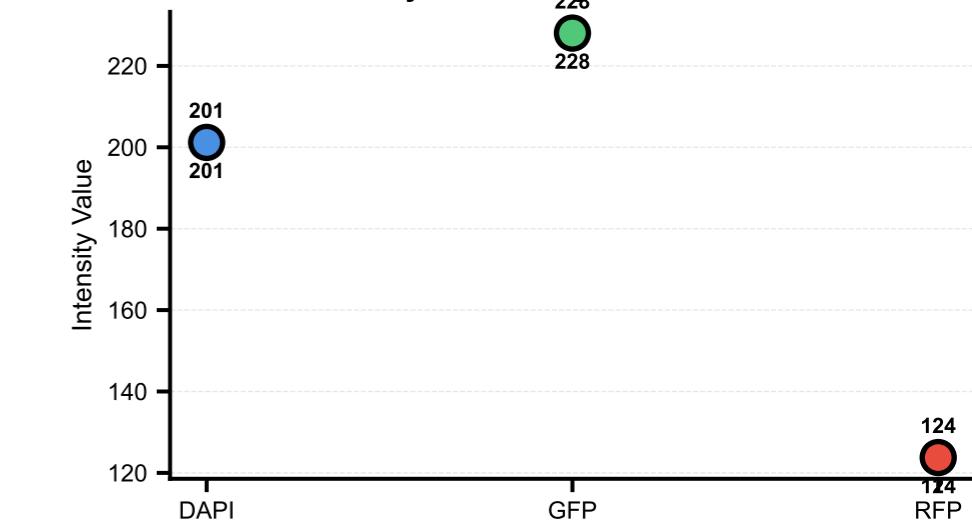
D. SNR Component Analysis



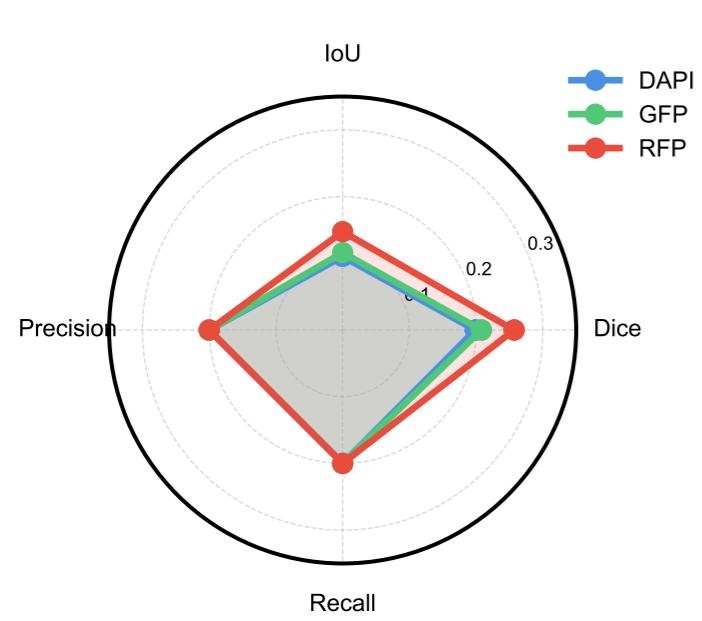
E. Intensity Distribution Box Plot



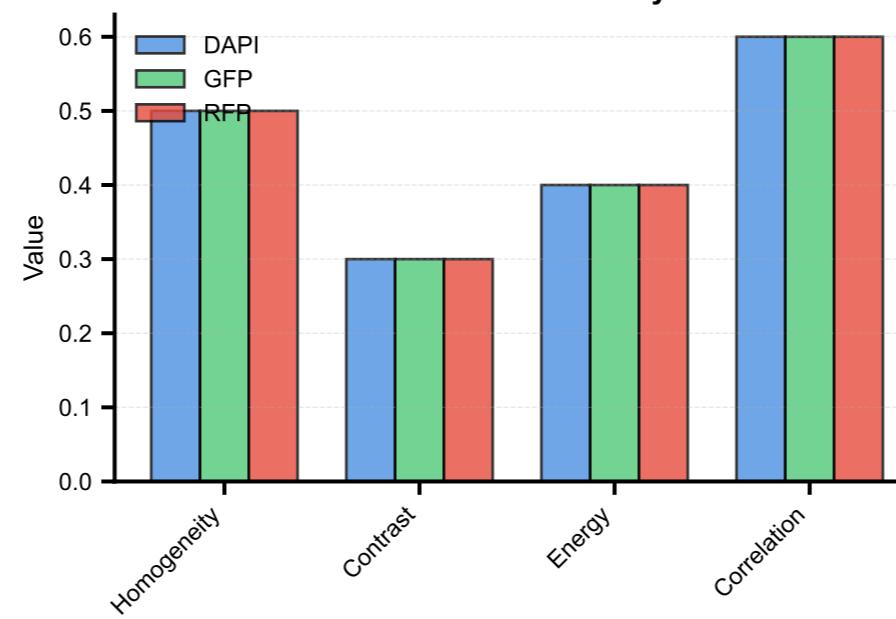
F. Dynamic Range Visualization



G. Segmentation Quality Radar



H. Texture Feature Analysis



I. Detailed Statistics Summary

Channel	Mean	Std	SNR	Dice
DAPI	201.2	0.0	3.38	0.199
GFP	228.1	0.0	5.32	0.208
RFP	123.8	0.0	12.46	0.257