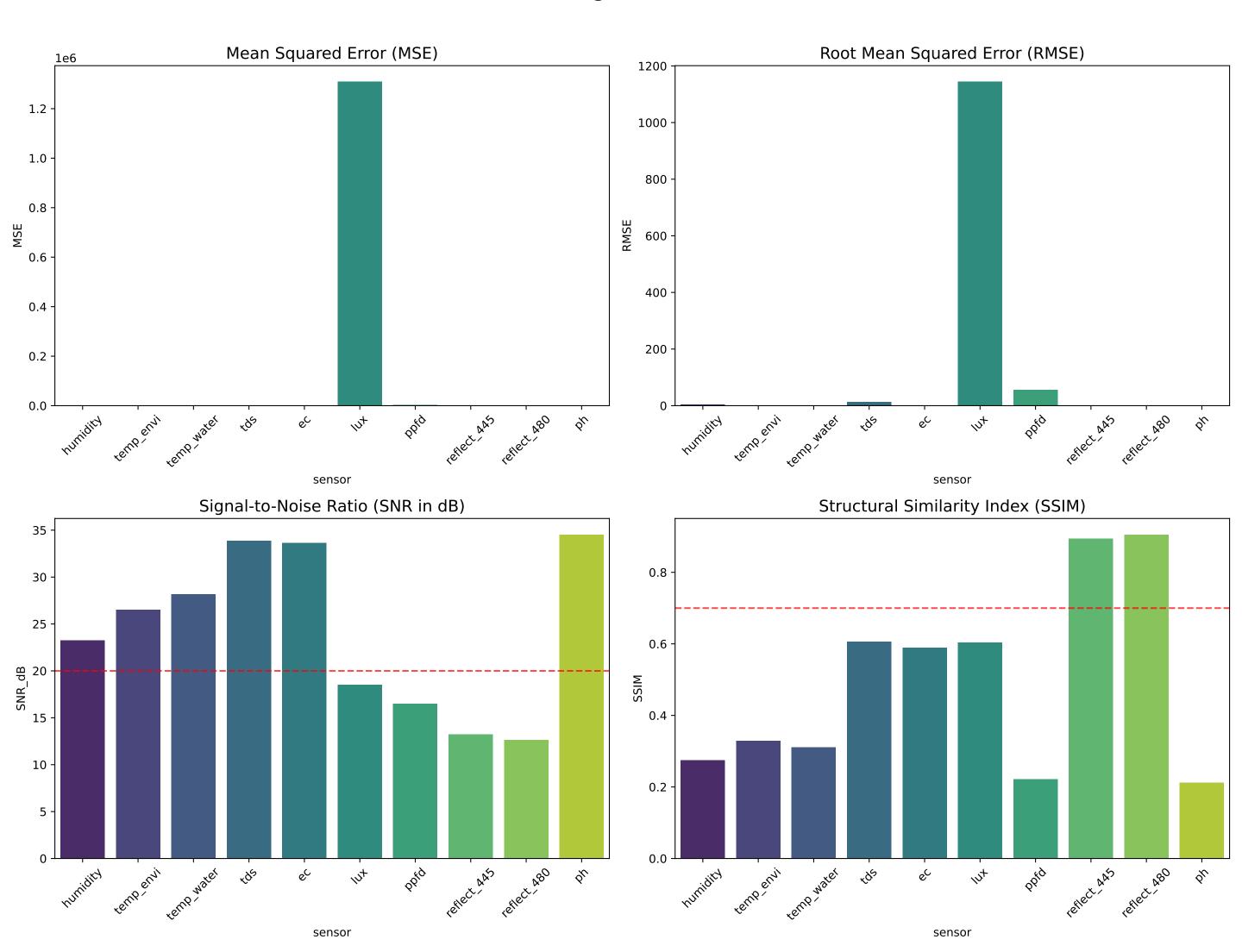
## Wavelet Denoising Metrics with Configuration

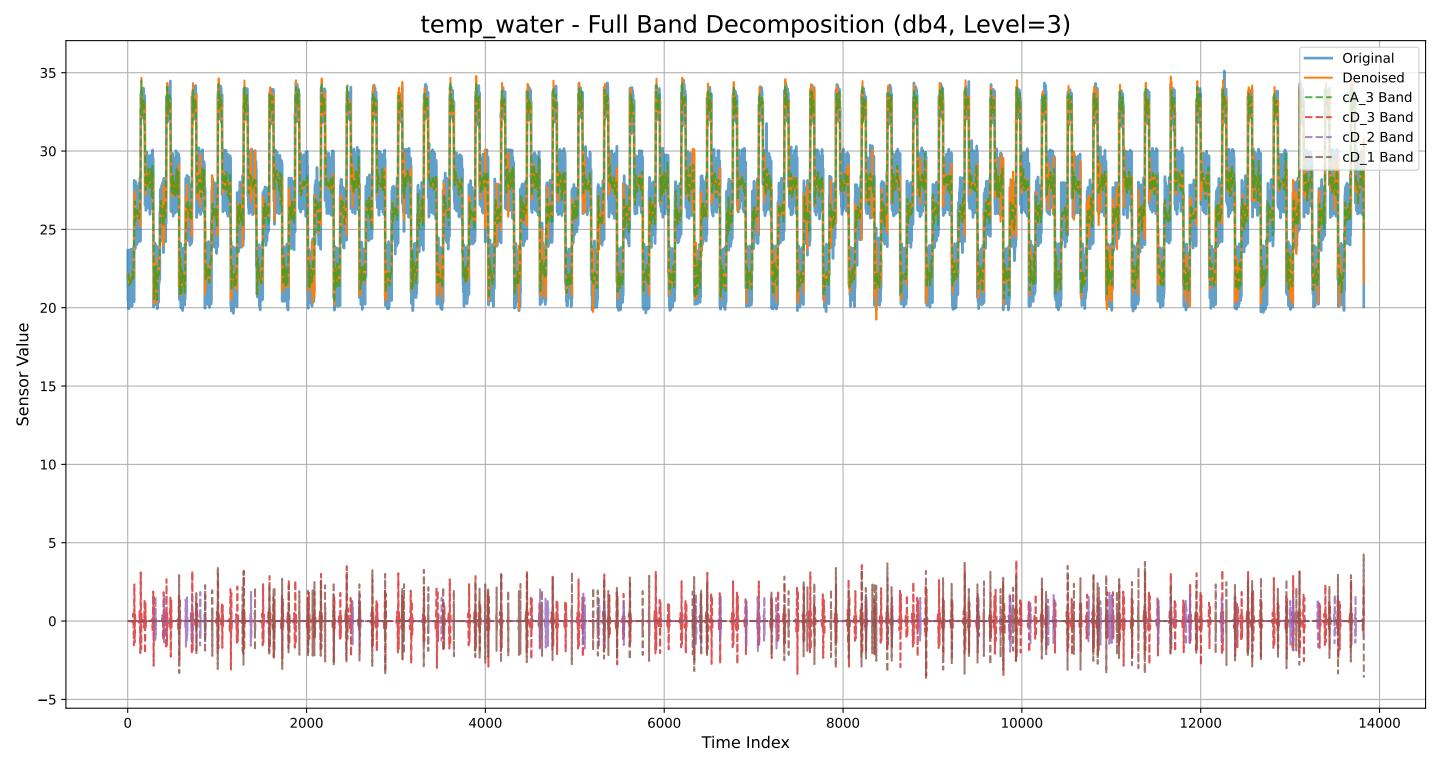
sensor	wavelet	level	threshold_mode	MSE	RMSE	SNR_dB	SSIM
humidity	db8	5	soft	19.5326	4.4196	23.2378	0.2749
temp_envi	db4	3	hard	1.8951	1.3766	26.5033	0.3287
temp_water	db4	3	hard	1.1256	1.0609	28.1459	0.3107
tds	db4	4	soft	162.5339	12.7489	33.8829	0.6062
ec	db4	4	soft	0.0004	0.0205	33.6243	0.5891
lux	db4	4	soft	1308285.6777	1143.8032	18.4922	0.6037
ppfd	db4	4	soft	3081.8888	55.5148	16.5116	0.2215
reflect_445	sym8	6	garrote	0.0018	0.043	13.2134	0.8937
reflect_480	sym8	6	garrote	0.0016	0.0398	12.61	0.9052
ph	db4	4	soft	0.0136	0.1166	34.519	0.2113

## Wavelet Denoising Performance Metrics



humidity - Full Band Decomposition (db8, Level=5) Original Denoised cA\_5 Band cD\_5 Band cD\_4 Band cD\_3 Band cD\_2 Band 80 cD\_1 Band 60 Sensor Value 20 2000 4000 6000 10000 8000 12000 14000 Time Index

temp\_envi - Full Band Decomposition (db4, Level=3) 40 Original Denoised cA\_3 Band c<mark>D\_3 Band</mark> cD\_2 Band cD\_1 Band 30 Sensor Value 10 0 2000 4000 6000 8000 10000 12000 14000 0 Time Index



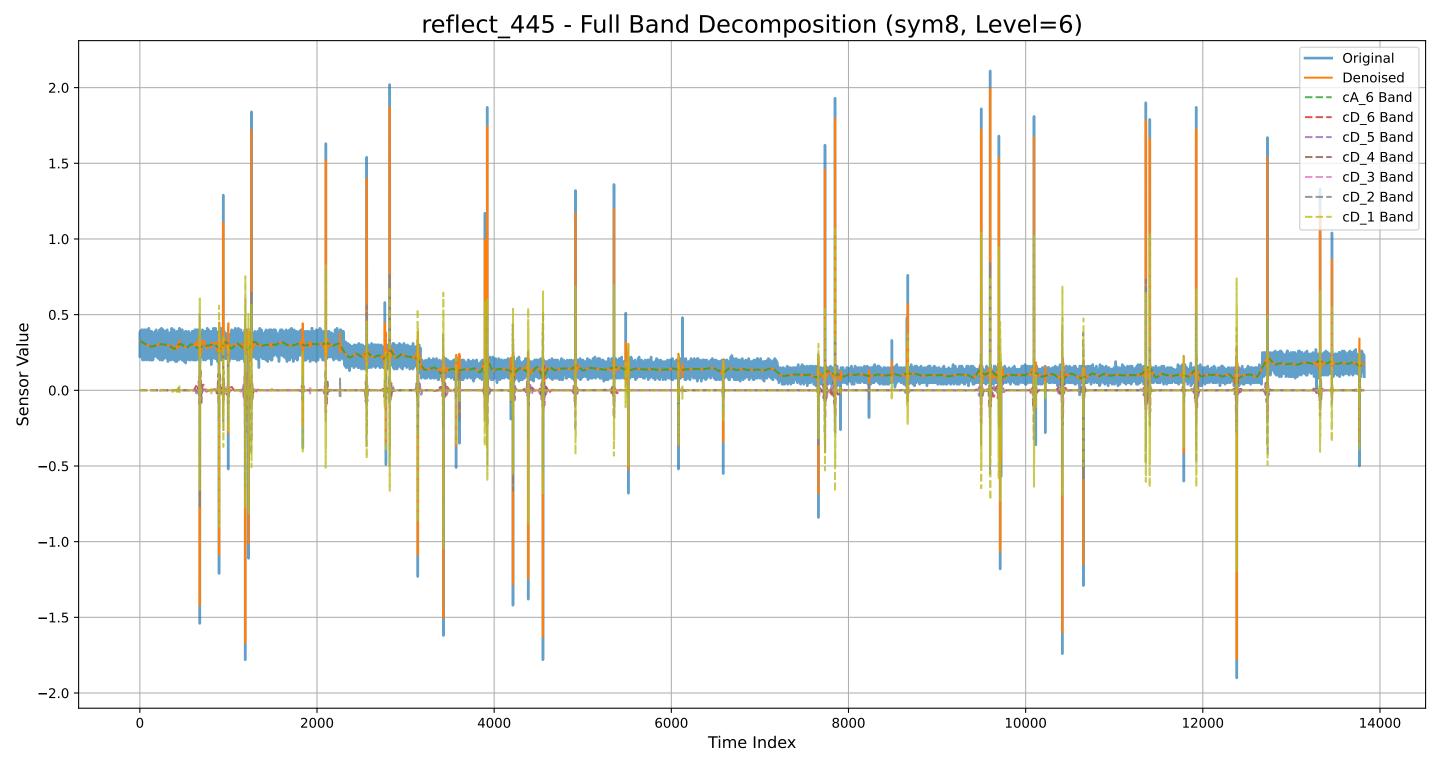
tds - Full Band Decomposition (db4, Level=4) Original Denoised cA\_4 Band 700 --- cD\_4 Band cD\_3 Band cD\_2 Band 600 --- cD\_1 Band 500 400 Sensor Value 300 200 100 -100 2000 4000 6000 8000 10000 12000 14000

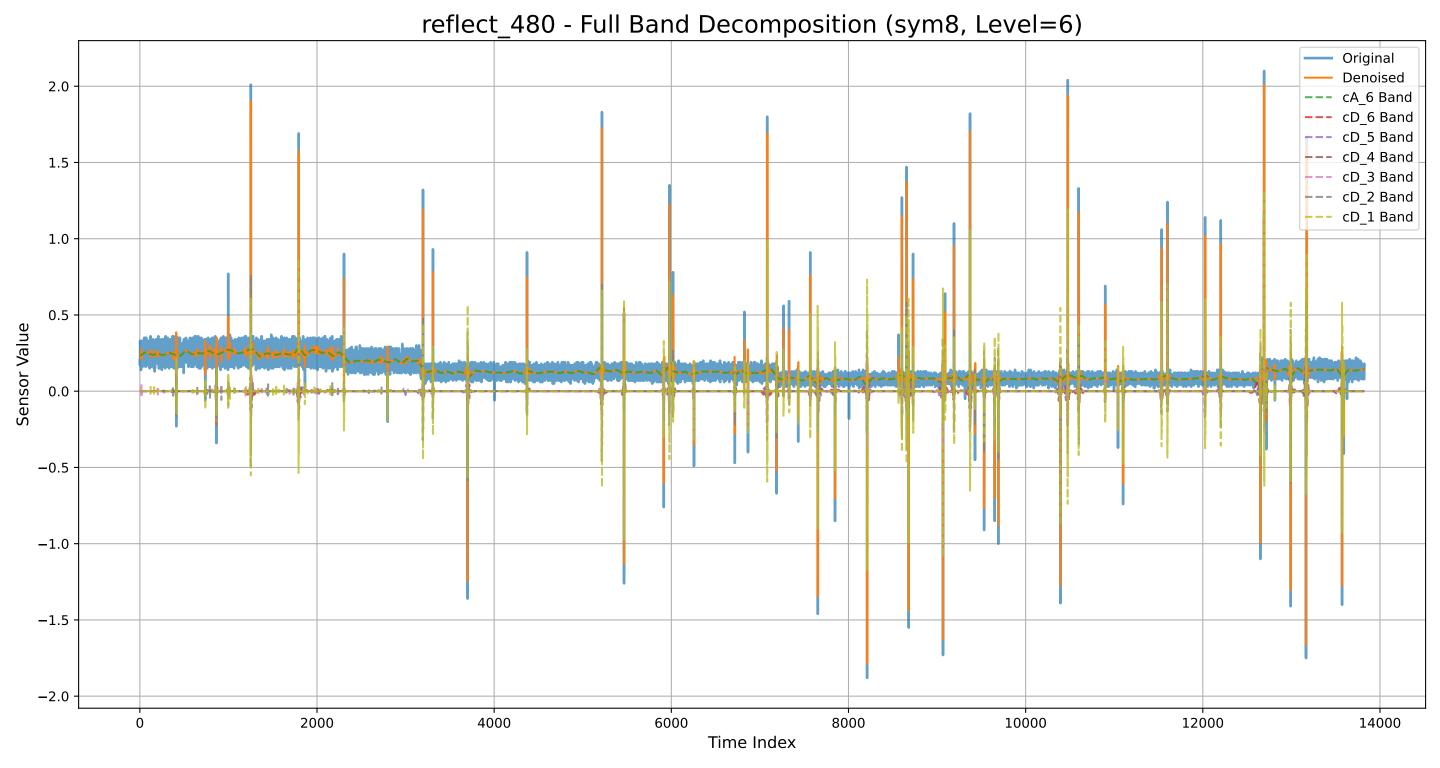
Time Index

ec - Full Band Decomposition (db4, Level=4) 1.2 -Original Denoised --- cA\_4 Band --- cD\_4 Band -- cD\_3 Band 1.0 cD\_2 Band --- cD\_1 Band 8.0 Sensor Value 0.2 0.0 -6000 2000 4000 8000 10000 12000 14000 0 Time Index

lux - Full Band Decomposition (db4, Level=4) Original Denoised 20000 cA\_4 Band cD\_4 Band cD\_3 Band cD\_2 Band cD\_1 Band 15000 10000 Sensor Value 5000 -5000 2000 4000 6000 8000 10000 12000 14000 Time Index

ppfd - Full Band Decomposition (db4, Level=4) Original Denoised cA\_4 Band cD\_4 Band cD\_3 Band cD\_2 Band cD\_1 Band 600 Sensor Value 200 2000 4000 6000 8000 10000 12000 14000 Time Index





ph - Full Band Decomposition (db4, Level=4) Original Denoised cA 4 Band cD 4 Band cD 3 Band --- cD\_2 Band --- cD\_1 Band Sensor Value 2000 4000 6000 8000 10000 12000 14000 Time Index