Radiation Report

TPS7H5030-QMLP Total Ionizing Dose (TID) Report

ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for the Texas Instruments TPS7H5030-QMLP radiation hardness-assured PWM controller with integrated gate driver. The study was done to determine TID effects at 100krad (Si) High Dose Rate (HDR). The results show that all samples pass within device specified test limits.

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1 Device Information

1.1 Product Description

The TPS7H5030 is a radiation-hardness-assured, current mode, single-ended PWM controller with an integrated gate driver that can be utilized in silicon power semiconductor based converter designs. The TPS7H5030 integrates several key functions, such as soft-start, enable, and adjustable slope compensation while maintaining a small package size. The controller also features a 0.6V ± 1% voltage reference tolerance to support highly accurate power converter designs. The TPS7H5030-QMLP is packaged in a plastic 24-pin HTSSOP PWP package.

1.2 Device Details

Testing was performed per MIL-STD-883, Test Method 1019, with a sample size per MIL-PRF-38535, Appendix C, test condition A (high dose rate).

Table 1-1. Device and Exposure Details

RHA TID Details: Up to 100krad(Si)	
TI Device	TPS7H5030-QMLP
TI Part Number	5962R2420103PYE
Device Function	PWM Controller with Integrated Gate Driver
Package	24-pin HTSSOP-PWP
Technology	LBC7 (250nm Linear BiCMOS)
Quantity tested	HDR: • 30 units biased from 3krad (Si) to 100krad (Si) • 30 units unbiased from 3krad (Si) to 100krad (Si) • 4 correaltion units
Lot Accept/Reject	Passes up to 100krad(Si); no observed fails
HDR Radiation Facility	Texas Instruments CLAB Dallas, Texas
Die Lot Number and Assembly Lot Number	DIE: 4356038 Assembly: 5519428
HDR Dose Rate	172.96 rad (Si) / s
HDR Radiation Source	Gammacell 220 Excel (GC-220E) Co-60
Irradiation and Test Temperature	Ambient, room temperature controlled to 25°C ±6°C per MIL-STD-883 and MIL-STD-750

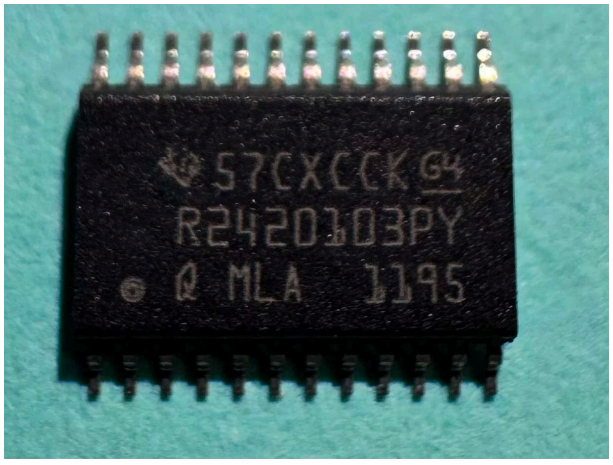

Figure 1-1. Device Used in Exposure (Front)

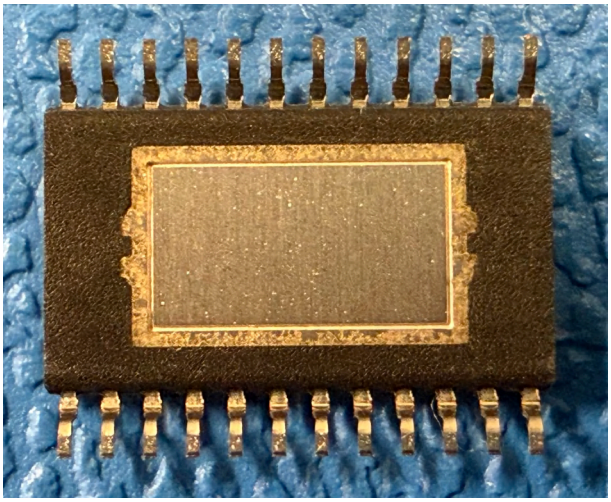

Figure 1-2. Device Used in Exposure (Back)

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2 Total Dose Test Setup

2.1 Test Overview

The TPS7H5030-QMLP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, condition A was used. For this test, the product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). All devices remained functional passing all parametric test limits.

2.2 Test Description and Facilities

The TPS7H5030-QMLP HDR exposure was performed on biased devices in a Co-60 Gammacell at the TI Dallas C-Lab facility in Dallas, Texas. The unattenuated dose rate of this cell is 172.96 rad (Si) / s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and post-radiation electrical testing at TI's Dallas Forest Lane facility. Test limit guard bands are set within SMD electrical test limits.

Post-radiation measurements were taken within 30 minutes after removing device from the dry ice container. The devices were allowed to reach room temperature prior to electrical post-radiation measurements.

2.3 Test Setup Details

The devices under HDR exposure were tested in two conditions, biased and unbiased, as described in the following sections.

2.3.1 Unbiased

For the unbiased HDR conditions, the exposure was performed with all pins grounded.

2.3.2 Biased

Figure 2-1 through Figure 2-3 and the HDR bias diagram and schematic.

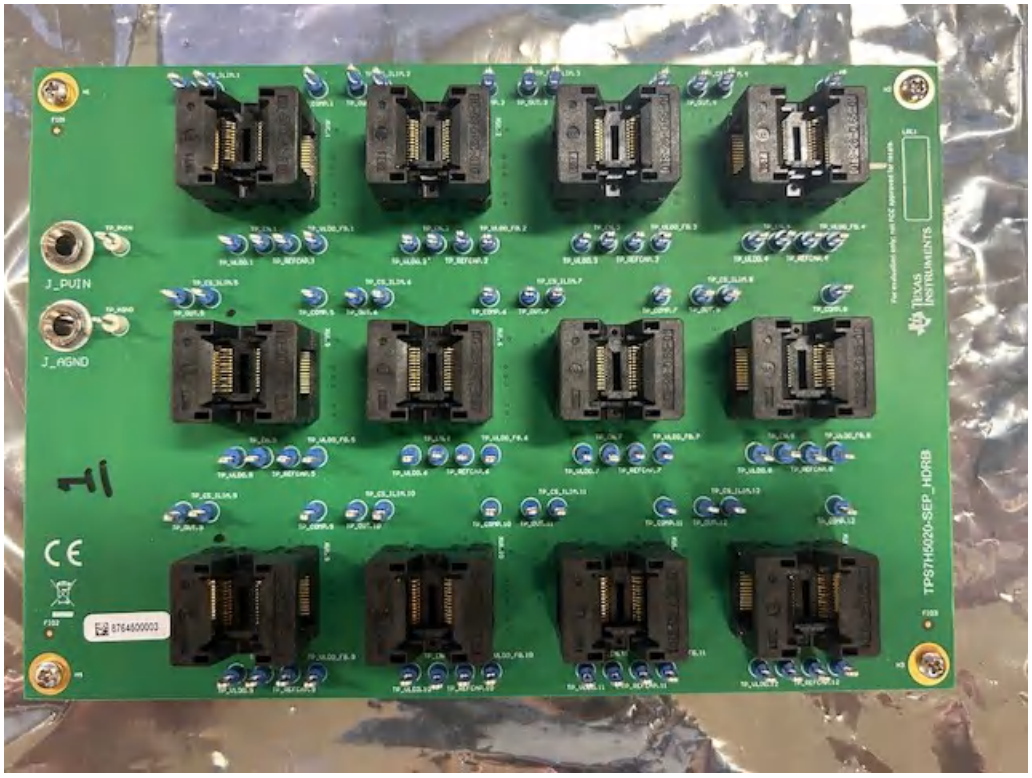

Figure 2-1. HDR TID Hardware

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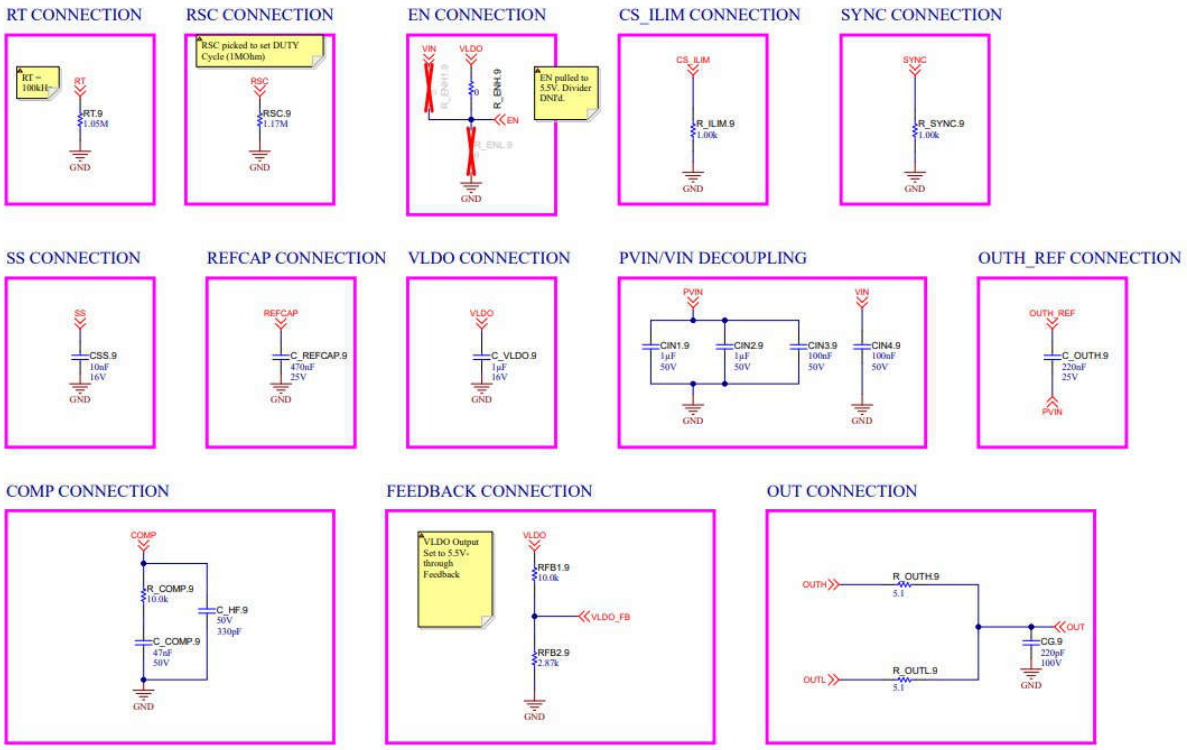

Figure 2-2. Supplies and GND HDR TID Bias Diagram

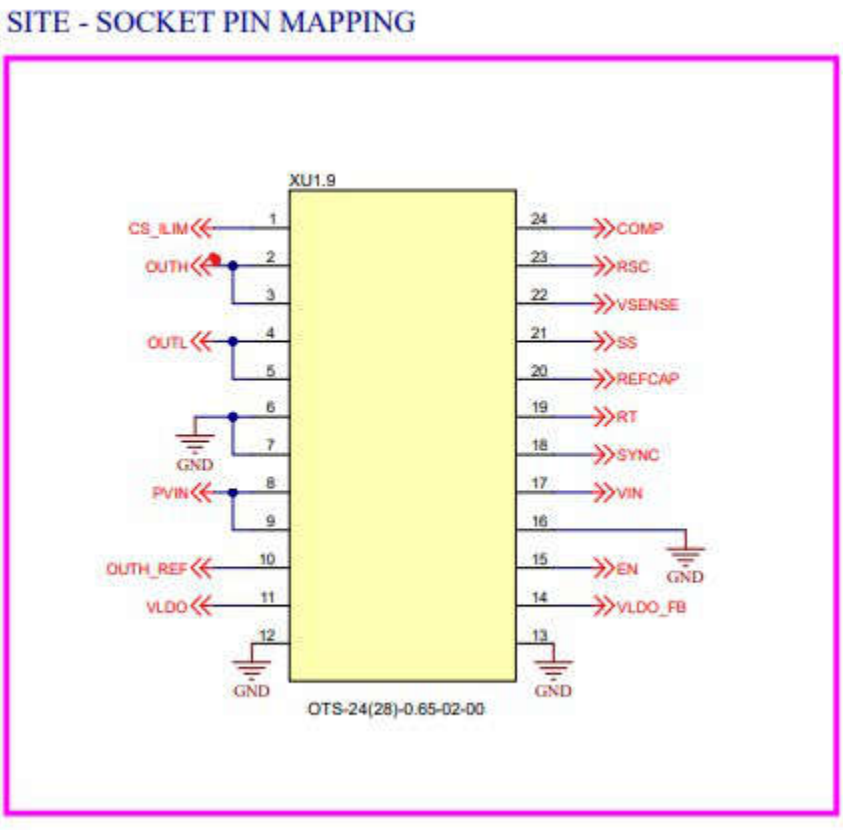

Figure 2-3. HDR TID Bias Diagram (VLDO_FB is not used on TPS7H5030-SP)

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2.4 Test Configuration and Conditions

HDR devices were stressed up to 100krad (Si) for biased and unbiased conditions.

Table 2-1. HDR Biased Device Information

Total Samples: 30units + 4 control					
Exposure Levels:					
Control	5krad (Si)	10krad (Si)	30krad(Si)	50krad (Si)	100krad (Si)
91, 92, 93, 94	1, 2, 3, 4, 5	11, 12, 13, 14, 15	31, 32, 33, 34, 35	41, 42, 43, 44, 45	51, 52, 53, 54, 55

Table 2-2. HDR Unbiased Device Information

Total Samples: 30units + 4 control					
Exposure Levels:					
Control	5krad (Si)	10krad (Si)	30krad(Si)	50krad (Si)	100krad (Si)
91, 92, 93, 94	6, 7, 8, 9, 10	16, 17, 18, 19, 20	36, 37, 38, 39, 40	46, 47, 48, 49, 50	56, 57, 58, 59, 60

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3 TID Characterization Test Results

3.1 TID Characterization Results Summary

The results show that all TPS7H5030-QMLP devices were fully functional and within specification limits up to 100krad (Si) HDR. Overall the TPS7H5030-QMLP show a strong degree of hardness to TID HDR exposure levels at 100krad (Si) under bias and unbiased conditions. Performance is measured based on the difference between pre- and post-irradiation with respect to SMD electrical minimum and maximum specification. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. (see Data Sheet Electrical Parameters for the electrical parameters). Note that test numbers are listed only for parameters tested post-TID.

See Appendix: HDR TID Report for HDR report.

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3.2 Data Sheet Electrical Parameters

Specifications are at ambient temperature TA = 25°C, PVIN=VIN=14V unless otherwise noted. Parameters not listed in the table are omitted either because there is no parametric data or because verification was done through bench testing. Parameters without MIN and MAX values are functionally assured by ATE testing.

Table 3-1. TPS7H5030-QMLP Data Sheet Electrical Parameters

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	Test #
SUPPLY VOLTAGES AND CURRENTS								
IDD	Operating supply current	No load for OUT, PVIN = VIN	fSW = 100kHz		6.8	11	mA	14.3, 14.4, 14.16
			fSW = 500kHz		8.5	17		14.5, 14.7, 14.18
		CLOAD = 1000pF for OUT, PVIN = VIN	fSW = 100kHz		8.5	12	mA	14.2
			fSW = 500kHz		14.5	22		14.21
IDD(dis)	Standby current	EN = 0V				8	mA	14.6, 14.8, 14.19
VLDO	Internal linear regulator output voltage (TPS7H503x)	CVLDO = 1µF	8V ≤ VIN ≤ 14V	4.8	5	5.2	V	15.15, 15.16, 15.17
VLDO_DO	Internal linear dropout voltage (TPS7H503x)	IVLDO = 25mA, CVLDO = 1µF				0.5	V	15.19, 15.20, 15.21
ENABLE AND UNDERVOLTAGE LOCKOUT								
VENR	Enable rising threshold			0.57	0.63	0.66	V	16.7, 16.10, 16.17
VENF	Enable falling threshold			0.48	0.52	0.55	V	16.8, 16.11, 16.18
IEN	Enable input leakage current	VIN = 14V	EN = 1V		1	100	nA	16.13, 16.15
			EN = 7V		30	700		16.14, 16.16
PVINUVLOR	PVIN UVLO rising (TPS7H503x)			7.2	7.5	7.8	V	17.13, 17.19
PVINUVLOF	PVIN UVLO falling (TPS7H503x)			6.9	7.2	7.5	V	17.14, 17.20
VINUVLOR	VIN UVLO rising (TPS7H503x)			7.2	7.5	7.8	V	17.16, 17.22
VINUVLOF	VIN UVLO falling (TPS7H503x)			6.9	7.2	7.5	V	17.17, 17.23
VLDOUVLOR	VLDO UVLO rising			3.65	3.77	3.95	V	17.7, 17.10
VLDOUVLOF	VLDO UVLO falling			3.45	3.59	3.75	V	17.8, 17.11
SOFT START								
ISS	Soft-start current	SS = 0.3V		2	2.8	3.4	µA	18.9, 18.13, 18.17, 18.21, 18.25, 18.29
ERROR AMPLIFIER								
EAgm	Error amplifier transconductance	–10µA < ICOMP < 10µA, V(COMP) = 1V		1100	1750	2700	µA/V	19.9, 19.13, 19.39

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Table 3-1. TPS7H5030-QMLP Data Sheet Electrical Parameters (continued)

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	Test #
EAISRC	Error amplifier source current	V(COMP) = 1V, 100mV input overdrive		95		210	µA	19.10, 19.14, 19.40
EAISNK	Error amplifier sink current	V(COMP) = 1V, 100mV input overdrive		95		210	µA	19.11, 19.15, 19.41
EAOS	Error amplifier input offset voltage			–5		6	mV	19.21, 19.24, 19.27, 19.30, 19.46, 19.49
EAIB	Error amplifier input bias current					25	nA	19.12, 19.16, 19.17, 19.18, 19.42, 19.43
OSCILLATOR								
fSYNC	SYNC in frequency range (TPS7H503x)			100		500	kHz	20.28, 20.32, 20.36, 20.38, 20.40, 20.44, 20.48, 20.50, 20.52, 20.54, 20.56, 20.58, 20.98, 20.102
DSYNC	SYNC in duty cycle	Duty cycle of external clock		40%		60%		20.29, 20.30, 20.33, 20.34, 20.41, 20.42, 20.45, 20.46, 20.99,
DTINT	External clock to internal clock detection time	RT populated			2	5	(1/fsw) s	20.84, 20.86, 20.88, 20.90, 20.92, 20.94, 20.120, 20.122, 20.124
DTEXT	Internal clock to external clock detection time	RT populated			2	5	(1/fsw) s	20.72, 20.74, 20.76, 20.78, 20.80, 20.82, 20.114, 20.116, 20.118
fSW	RT programmed switching frequency	RT = 1.18MΩ		80	95	110	kHz	20.27, 20.31, 20.47, 20.49, 20.97, 20.107
		RT = 560kΩ		175	195	220	kHz	20.35, 20.37, 20.51, 20.53, 20.101, 20.109
		RT = 210kΩ		450	500	550	kHz	20.39, 20.43, 20.55, 20.57, 20.103, 20.111
VOLTAGE REFERENCE								
VREF	Internal voltage reference(2)	Measured at COMP, COMP = VSENSE	TA = 25°C	0.597	0.6	0.603	V	19.19, 19.22, 19.25, 19.28, 19.31, 19.33, 19.35, 19.37, 19.44, 19.47, 19.50, 19.52
REFCAP	REFCAP voltage	CREFCAP = 470nF		1.208	1.223	1.235	V	21.5, 21.7, 21.9, 21.11, 21.13, 21.15, 21.17, 21.19, 21.23, 21.25, 21.27, 21.29
CURRENT SENSE								

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Table 3-1. TPS7H5030-QMLP Data Sheet Electrical Parameters (continued)

PARAMETER		TEST CONDITIONS		MIN	TYP	MAX	UNIT	Test #
CCSR	COMP to CS_ILIM ratio	RSC = open		1.94	2	2.06		28.3, 28.4, 28.15
VCS_ILIM	Current limit (overcurrent) threshold			0.96	1	1.04	V	28.7, 28.8, 28.9, 28.10, 28.17, 28.18
	CS_ILIM to OUT delay	CS_ILIM = 1V to 90% of OUT falling			65	115	ns	28.11, 28.12, 28.13, 28.14, 28.19, 28.20
SLOPE COMPENSATION								
SC	Slope compensation	fSW = 100kHz, RSC = 1.18MΩ			0.029		V/µs	22.25
		fSW = 200kHz, RSC = 562kΩ			0.072		V/µs	22.22, 22.26
		fSW = 500kHz, RSC = 100kΩ			0.306		V/µs	22.23, 22.24, 22.27
GATE DRIVER								
VOL	Low-level voltage	IOL = 50mA			0.08	0.15	V	24.5, 24.7, 24.15
PVIN - VOH	High-level voltage	IOH = 50mA			0.13	0.25	V	24.6, 24.8, 24.16
tR_OUT	OUT rise time (TPS7H503x)	CLOAD = 1000pF, 10% to 90%	VIN = PVIN = 8V		9.5	18	ns	24.17
tR_OUT	OUT rise time	CLOAD = 1000pF, 10% to 90%	VIN = PVIN = 12V		9.5	18	ns	24.9
			VIN = PVIN = 14V		11.5	20		24.11
tF_OUT	OUT fall time (TPS7H503x)	CLOAD = 1000pF, 90% to 10%	VIN = PVIN = 8V		9.5	18	ns	24.18
tF_OUT	OUT fall time	CLOAD = 1000pF, 90% to 10%	VIN = PVIN = 12V		9.5	18	ns	24.1
			VIN = PVIN = 14V		11	18		24.12
ROH	Pull-up resistance	100mA from OUT			2.6	4.7	Ω	23.19, 23.21, 23.23
ROL	Pull-down resistance	100mA into OUT			1.6	2.8	Ω	23.20, 23.22, 23.24
VUCLAMP	Unpowered OUT clamp voltage	Switching disabled	PVIN = 0V		0.7	1	V	24.13
			0V < PVIN < 5V		1.8	2.5		24.14
PWM AND DUTY CYCLE								
ton_min	Minimum on-time				135	165	ns	26.3, 26.4, 26.7
toff_min	Minimum off-time				55	70	ns	26.5, 26.8
DMAX	Maximum duty cycle					100%		27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 27.10, 27.11, 27.12, 27.13, 27.14, 27.15, 27.16, 27.17, 27.18, 27.19, 27.20

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4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, *TPS7H502x-SP/SEP and TPS7H503x-SP/SEP Radiation-Hardened 1MHz Current Mode PWM Controller With Integrated Gate Driver*, data sheet
- Texas Instruments, *TPS7H5030-SP Evaluation Module*, EVM user's guide.

4.2 Reference Documents

Texas Instruments total ionizing dose radiation (total dose) test procedure follows the standards put forth in MIL-STD-883 TM 1019. The document can be found at the DLA website.

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A Appendix: HDR TID Report

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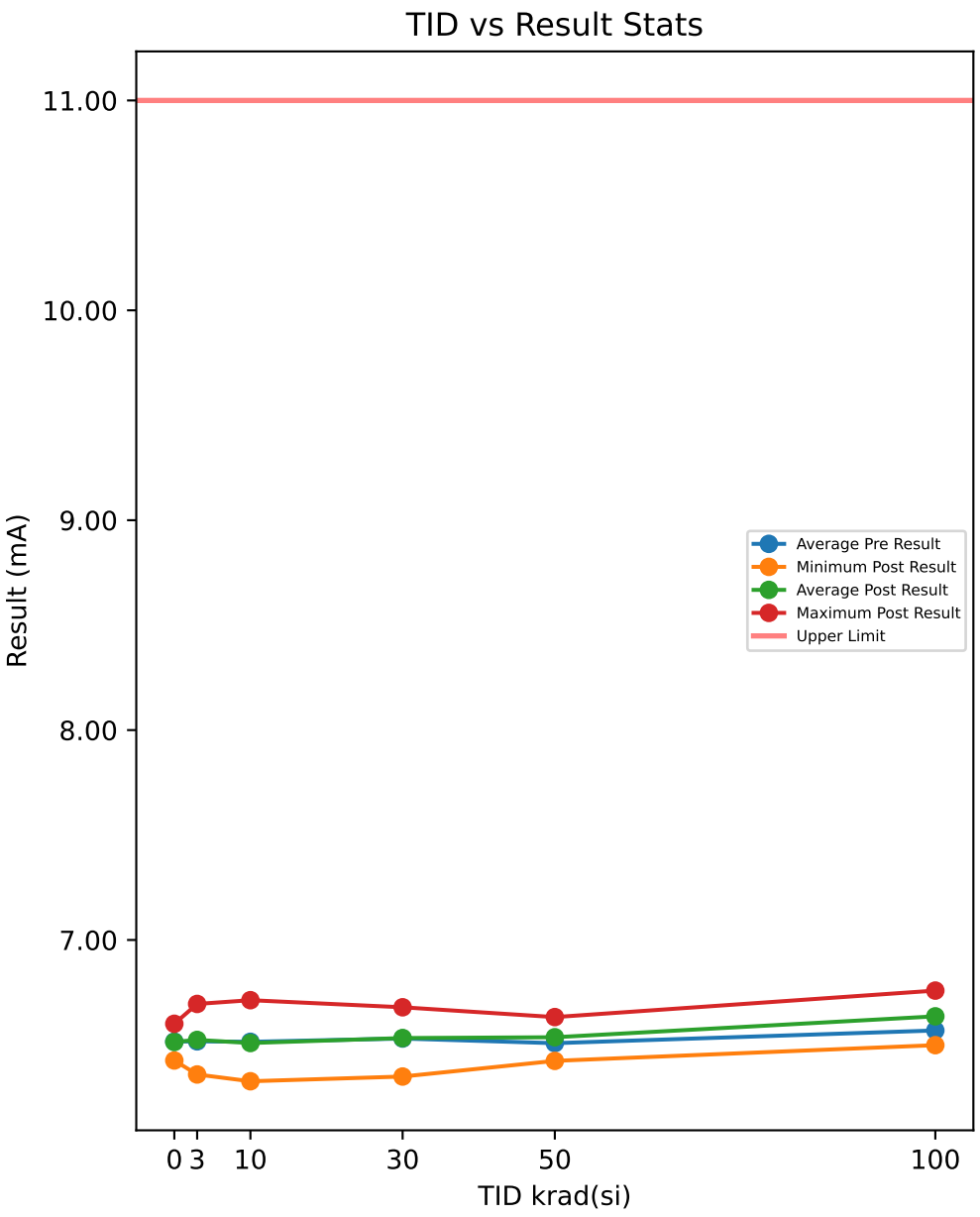
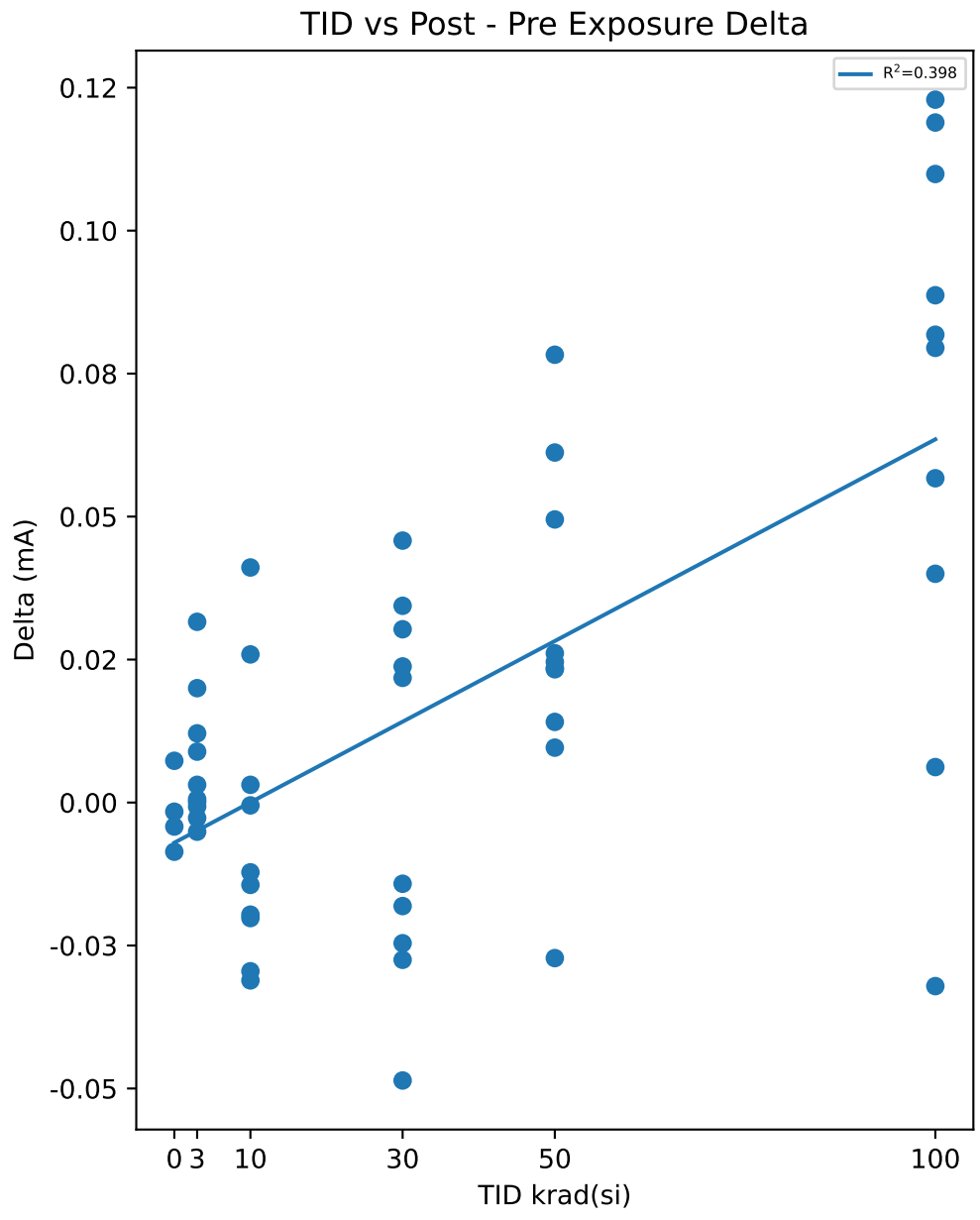
Device Test: 14.16 IDD|SUPPLY CURRENT/IN/8/8/0/0/5/100kHz//@IDD_ACT_100K_NOLOAD





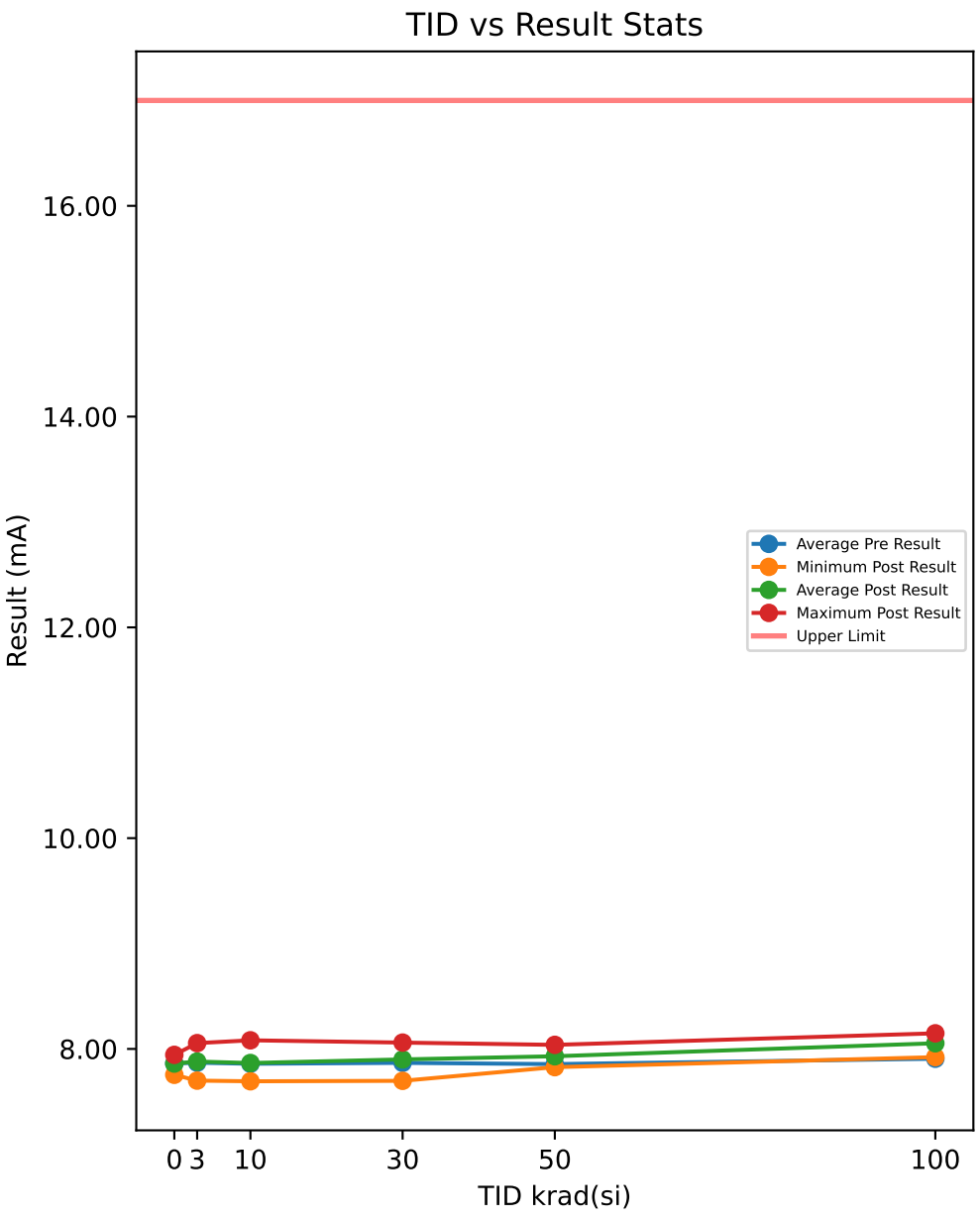
Test Results (Upper Limit = 11.0 (mA))

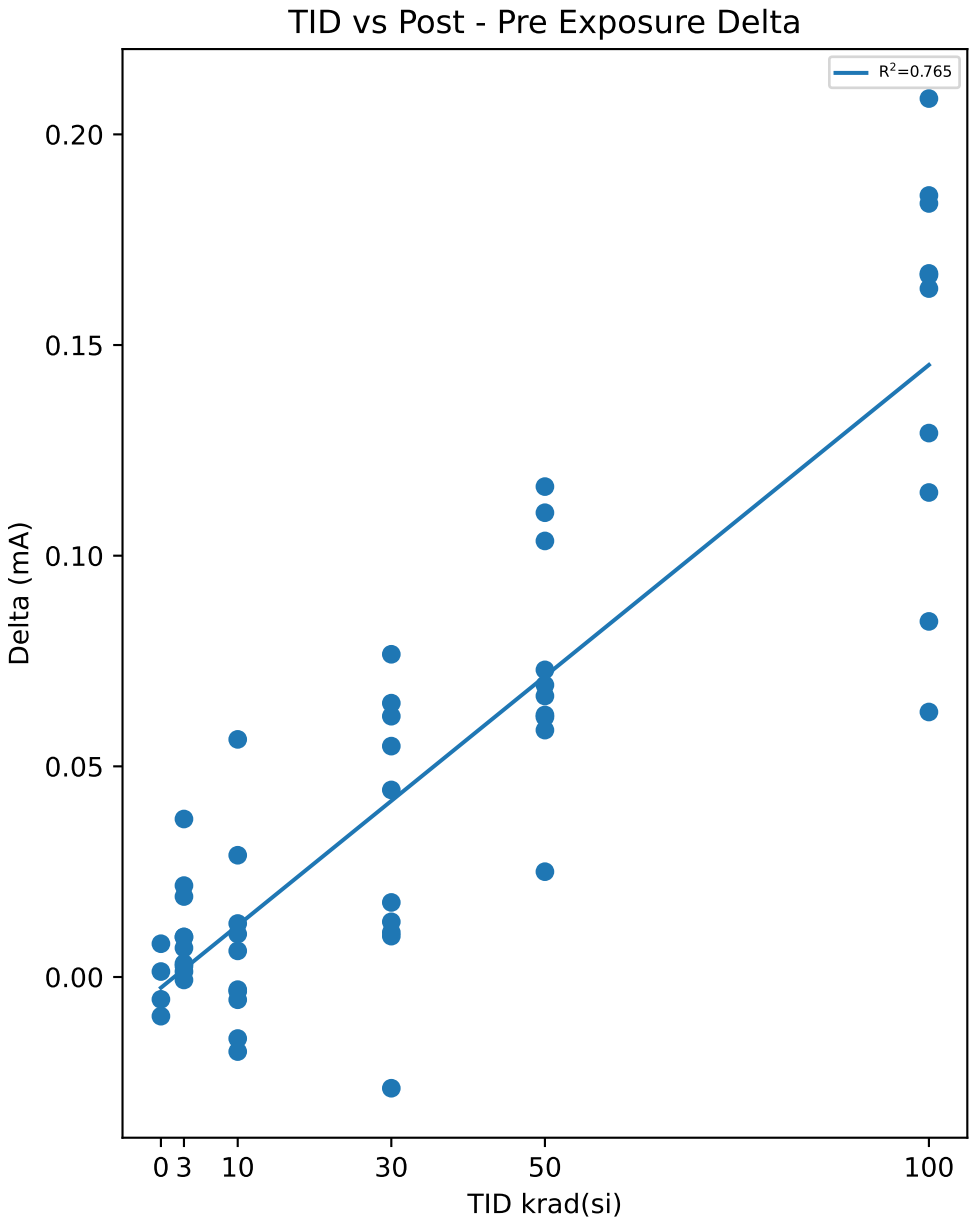
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	6.4608	6.4808	0.02
2	3	HDR BIAS	6.4961	6.4954	-0.0007
3	3	HDR BIAS	6.4697	6.467	-0.0027
4	3	HDR BIAS	6.5643	6.5592	-0.0051
5	3	HDR BIAS	6.6185	6.6501	0.0316
6	3	HDR UNBIAS	6.356	6.3591	0.0031
7	3	HDR UNBIAS	6.6863	6.6952	0.0089
8	3	HDR UNBIAS	6.5322	6.5323	0.0001
9	3	HDR UNBIAS	6.5414	6.5535	0.0121
10	3	HDR UNBIAS	6.4446	6.4452	0.0006
11	10	HDR BIAS	6.543	6.5119	-0.0311
12	10	HDR BIAS	6.5419	6.5217	-0.0202
13	10	HDR BIAS	6.565	6.5909	0.0259
14	10	HDR BIAS	6.5778	6.5634	-0.0144
15	10	HDR BIAS	6.7426	6.7131	-0.0295
16	10	HDR UNBIAS	6.4099	6.3903	-0.0196
17	10	HDR UNBIAS	6.4807	6.5218	0.0411
18	10	HDR UNBIAS	6.3355	6.335	-0.0005
19	10	HDR UNBIAS	6.612	6.6151	0.0031
20	10	HDR UNBIAS	6.339	6.3268	-0.0122
31	30	HDR BIAS	6.6449	6.6793	0.0344
32	30	HDR BIAS	6.5303	6.5761	0.0458
33	30	HDR BIAS	6.3275	6.3493	0.0218
34	30	HDR BIAS	6.4796	6.431	-0.0486
35	30	HDR BIAS	6.5694	6.5552	-0.0142
36	30	HDR UNBIAS	6.6922	6.6647	-0.0275
37	30	HDR UNBIAS	6.4086	6.4324	0.0238
38	30	HDR UNBIAS	6.5313	6.5616	0.0303
39	30	HDR UNBIAS	6.4585	6.4404	-0.0181
40	30	HDR UNBIAS	6.6615	6.6369	-0.0246
41	50	HDR BIAS	6.6093	6.6326	0.0233
42	50	HDR BIAS	6.5643	6.5904	0.0261
43	50	HDR BIAS	6.4934	6.5169	0.0235
44	50	HDR BIAS	6.3885	6.4497	0.0612
45	50	HDR BIAS	6.42	6.4983	0.0783
46	50	HDR UNBIAS	6.4726	6.4972	0.0246
47	50	HDR UNBIAS	6.5401	6.5896	0.0495
48	50	HDR UNBIAS	6.4511	6.4239	-0.0272
49	50	HDR UNBIAS	6.5389	6.5485	0.0096
50	50	HDR UNBIAS	6.6039	6.618	0.0141
51	100	HDR BIAS	6.5553	6.6652	0.1099
52	100	HDR BIAS	6.5342	6.5909	0.0567
53	100	HDR BIAS	6.5451	6.6269	0.0818
54	100	HDR BIAS	6.4588	6.4988	0.04
55	100	HDR BIAS	6.6359	6.7588	0.1229
56	100	HDR UNBIAS	6.6912	6.6591	-0.0321
57	100	HDR UNBIAS	6.5119	6.6006	0.0887
58	100	HDR UNBIAS	6.6108	6.617	0.0062
59	100	HDR UNBIAS	6.5346	6.6535	0.1189
60	100	HDR UNBIAS	6.611	6.6905	0.0795
91	0	CORRELATION	6.4185	6.4258	0.0073
92	0	CORRELATION	6.4572	6.4486	-0.0086
93	0	CORRELATION	6.6023	6.6007	-0.0016
94	0	CORRELATION	6.5854	6.5812	-0.0042

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.4185	6.5159	6.6023	0.091702	6.4258	6.5141	6.6007	0.089609	-0.0086	-0.001775	0.0073	0.0067044
3	6.356	6.517	6.6863	0.093704	6.3591	6.5238	6.6952	0.098163	-0.0051	0.00679	0.0316	0.01158
10	6.3355	6.5147	6.7426	0.12675	6.3268	6.509	6.7131	0.12493	-0.0311	-0.00574	0.0411	0.023632
30	6.3275	6.5304	6.6922	0.11631	6.3493	6.5327	6.6793	0.11331	-0.0486	0.00231	0.0458	0.032387
50	6.3885	6.5082	6.6093	0.075529	6.4239	6.5365	6.6326	0.070983	-0.0272	0.0283	0.0783	0.029307
100	6.4588	6.5689	6.6912	0.067887	6.4988	6.6361	6.7588	0.068554	-0.0321	0.06725	0.1229	0.050395

Device Test: 14.18 IDD|SUPPLY CURRENT/IN/8/8/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD





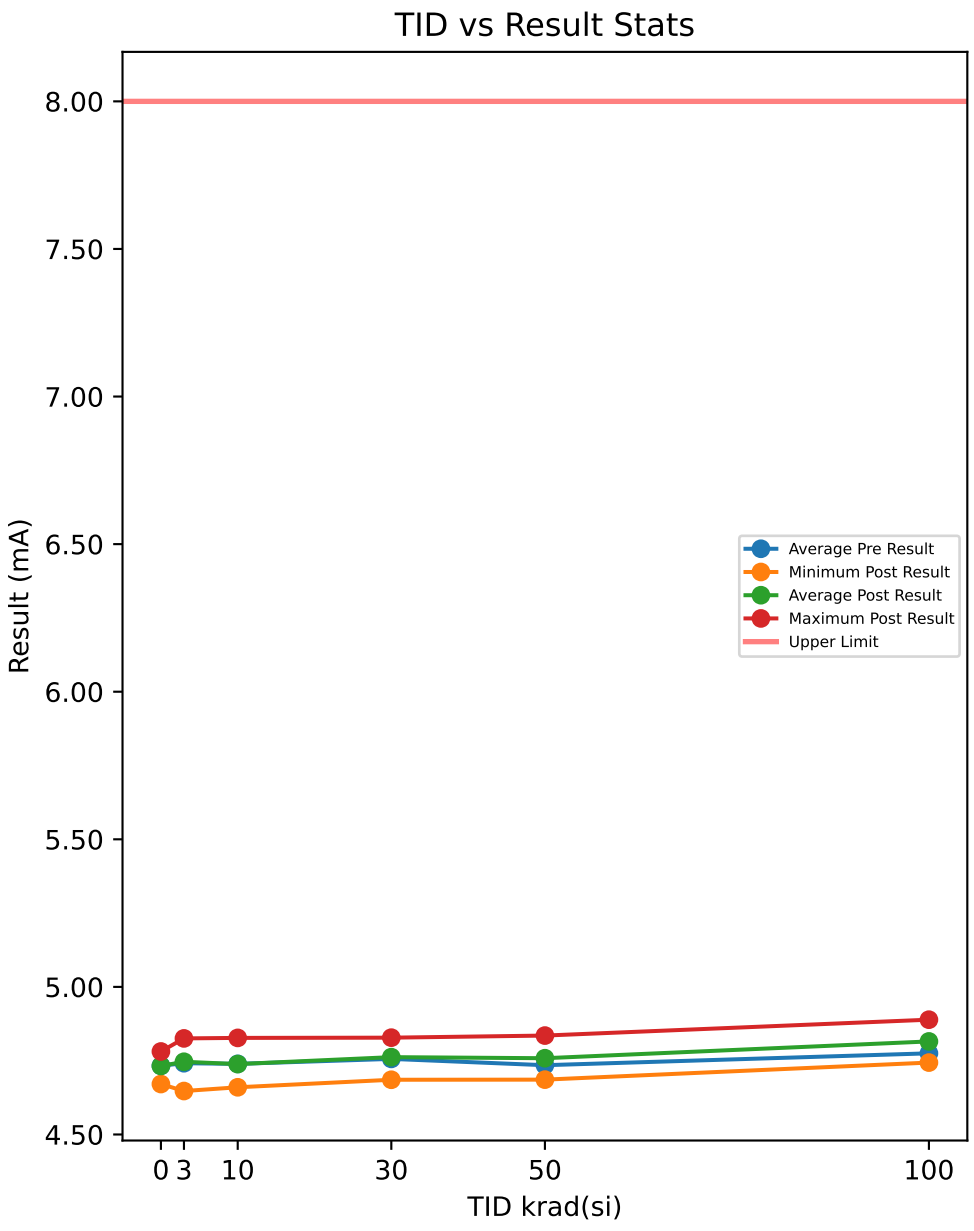
Test Results (Upper Limit = 17.0 (mA))

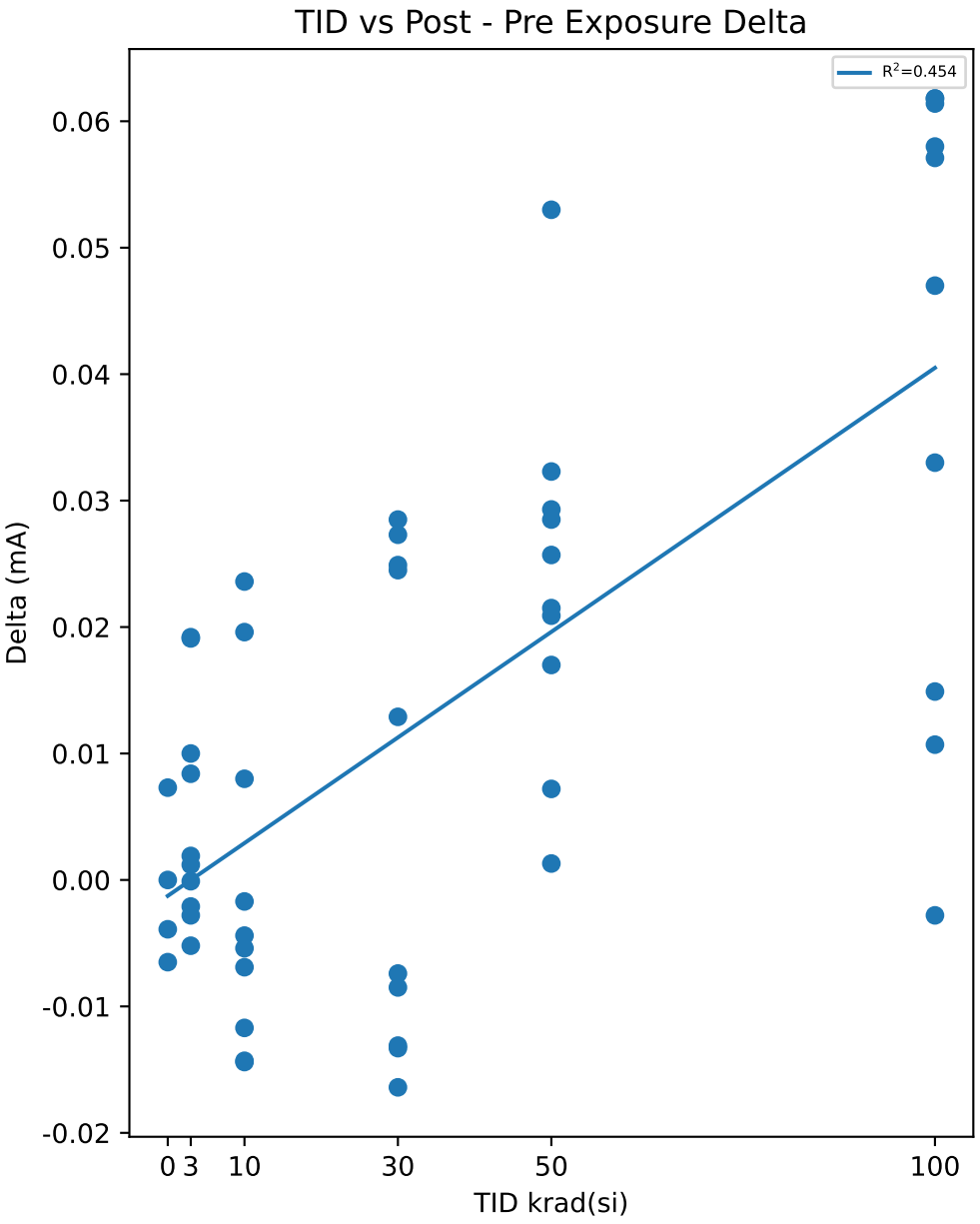
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.8102	7.8319	0.0217
2	3	HDR BIAS	7.8509	7.8522	0.0013
3	3	HDR BIAS	7.8314	7.8346	0.0032
4	3	HDR BIAS	7.9227	7.922	-0.0007
5	3	HDR BIAS	7.9614	7.9989	0.0375
6	3	HDR UNBIAS	7.6923	7.6992	0.0069
7	3	HDR UNBIAS	8.0455	8.055	0.0095
8	3	HDR UNBIAS	7.8754	7.8849	0.0095
9	3	HDR UNBIAS	7.9003	7.9194	0.0191
10	3	HDR UNBIAS	7.8022	7.8048	0.0026
11	10	HDR BIAS	7.8806	7.8629	-0.0177
12	10	HDR BIAS	7.8821	7.8791	-0.003
13	10	HDR BIAS	7.8944	7.9233	0.0289
14	10	HDR BIAS	7.9281	7.9247	-0.0034
15	10	HDR BIAS	8.0964	8.0818	-0.0146
16	10	HDR UNBIAS	7.7539	7.7485	-0.0054
17	10	HDR UNBIAS	7.8221	7.8785	0.0564
18	10	HDR UNBIAS	7.6846	7.6948	0.0102
19	10	HDR UNBIAS	7.9627	7.9754	0.0127
20	10	HDR UNBIAS	7.6867	7.6929	0.0062
31	30	HDR BIAS	7.9798	8.0417	0.0619
32	30	HDR BIAS	7.8689	7.9455	0.0766
33	30	HDR BIAS	7.6528	7.6972	0.0444
34	30	HDR BIAS	7.8373	7.8109	-0.0264
35	30	HDR BIAS	7.9024	7.9155	0.0131
36	30	HDR UNBIAS	8.0494	8.06	0.0106
37	30	HDR UNBIAS	7.7336	7.7884	0.0548
38	30	HDR UNBIAS	7.8579	7.9229	0.065
39	30	HDR UNBIAS	7.8113	7.829	0.0177
40	30	HDR UNBIAS	7.9835	7.9932	0.0097
41	50	HDR BIAS	7.9693	8.0386	0.0693
42	50	HDR BIAS	7.9185	7.9914	0.0729
43	50	HDR BIAS	7.844	7.9026	0.0586
44	50	HDR BIAS	7.725	7.8352	0.1102
45	50	HDR BIAS	7.7394	7.8558	0.1164
46	50	HDR UNBIAS	7.8244	7.8911	0.0667
47	50	HDR UNBIAS	7.8949	7.9984	0.1035
48	50	HDR UNBIAS	7.8021	7.8271	0.025
49	50	HDR UNBIAS	7.8861	7.9478	0.0617
50	50	HDR UNBIAS	7.9544	8.0166	0.0622
51	100	HDR BIAS	7.8859	8.0695	0.1836
52	100	HDR BIAS	7.8733	8.0024	0.1291
53	100	HDR BIAS	7.8736	8.037	0.1634
54	100	HDR BIAS	7.807	7.922	0.115
55	100	HDR BIAS	7.9625	8.148	0.1855
56	100	HDR UNBIAS	8.0423	8.1052	0.0629
57	100	HDR UNBIAS	7.8214	7.988	0.1666
58	100	HDR UNBIAS	7.9606	8.045	0.0844
59	100	HDR UNBIAS	7.8716	8.0801	0.2085
60	100	HDR UNBIAS	7.9718	8.1388	0.167
91	0	CORRELATION	7.7465	7.7544	0.0079
92	0	CORRELATION	7.8178	7.8085	-0.0093
93	0	CORRELATION	7.9489	7.9436	-0.0053
94	0	CORRELATION	7.9363	7.9376	0.0013

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.7465	7.8624	7.9489	0.097238	7.7544	7.861	7.9436	0.094534	-0.0093	-0.00135	0.0079	0.0075584
3	7.6923	7.8692	8.0455	0.096884	7.6992	7.8803	8.055	0.10088	-0.0007	0.01106	0.0375	0.01186
10	7.6846	7.8592	8.0964	0.12765	7.6929	7.8662	8.0818	0.12413	-0.0177	0.00703	0.0564	0.022116
30	7.6528	7.8677	8.0494	0.11952	7.6972	7.9004	8.06	0.11727	-0.0264	0.03274	0.0766	0.032605
50	7.725	7.8558	7.9693	0.084096	7.8271	7.9305	8.0386	0.078459	0.025	0.07465	0.1164	0.027848
100	7.807	7.907	8.0423	0.074338	7.922	8.0536	8.148	0.070223	0.0629	0.1466	0.2085	0.047131

Device Test: 14.19 IDD_DIS|STANDBY CURRENT/IN/8/8/0/0/5/500kHz//@IDD_DIS





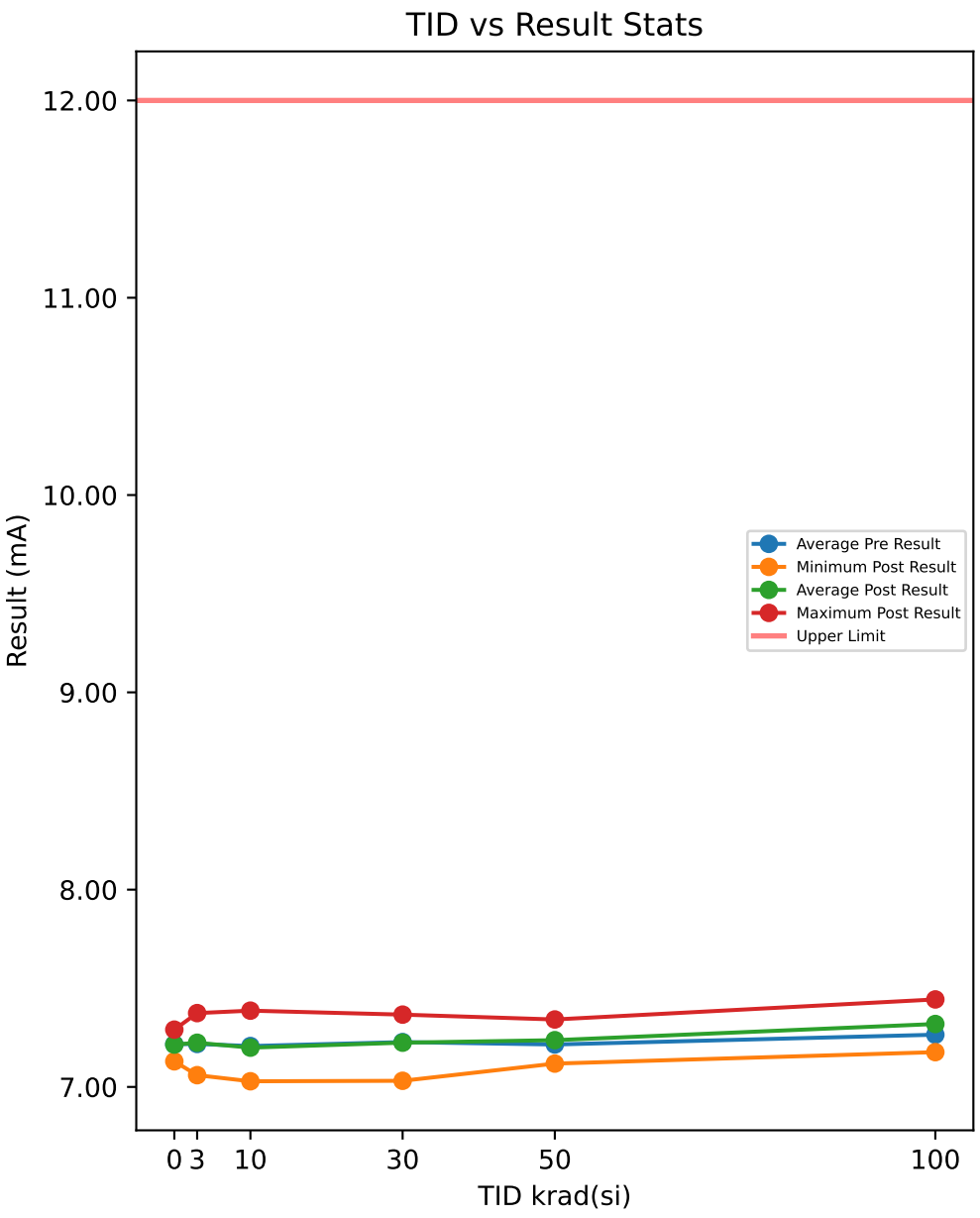
Test Results (Upper Limit = 8.0 (mA))

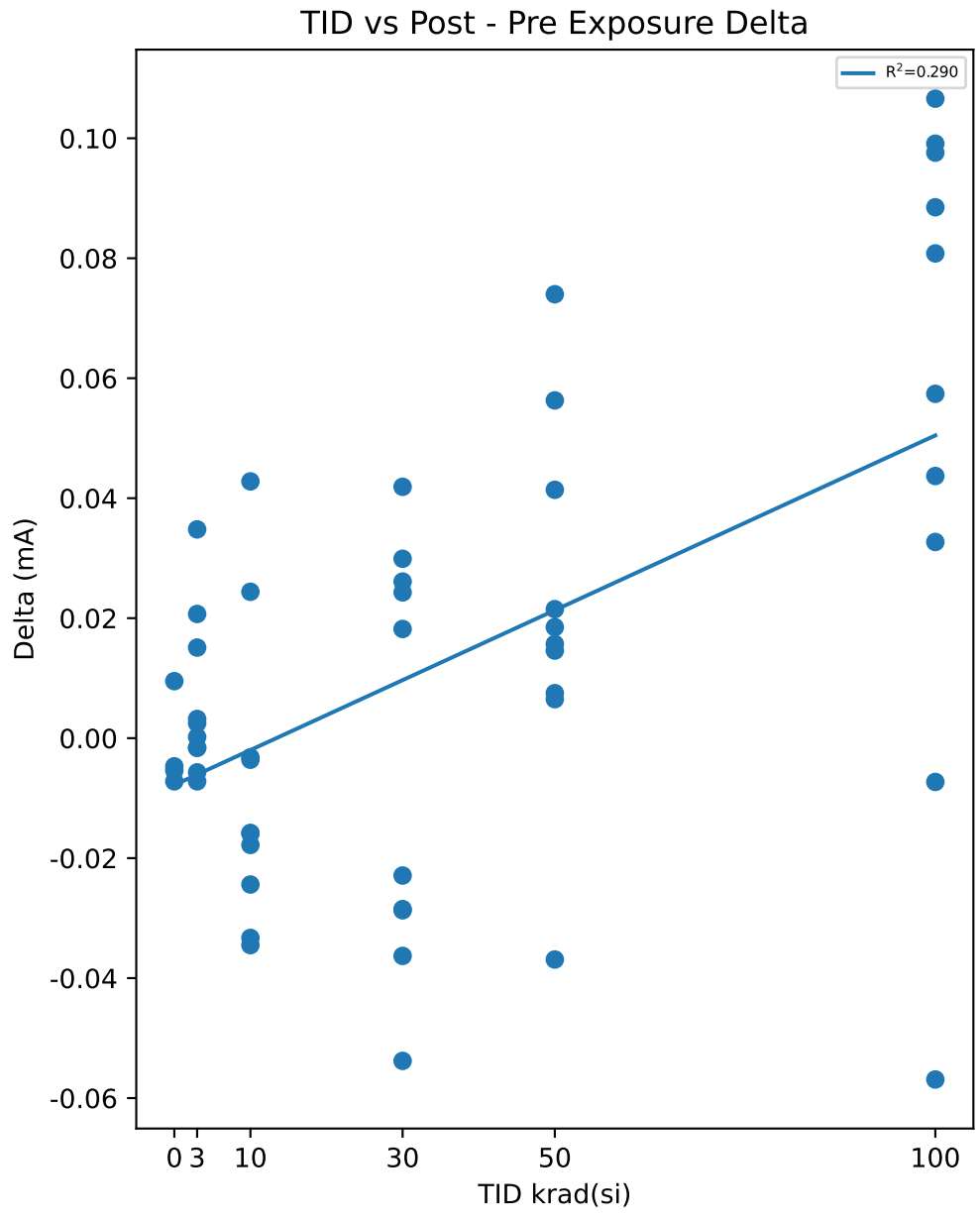
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	4.7274	4.7465	0.0191
2	3	HDR BIAS	4.7314	4.7286	-0.0028
3	3	HDR BIAS	4.7492	4.744	-0.0052
4	3	HDR BIAS	4.7702	4.7681	-0.0021
5	3	HDR BIAS	4.7872	4.8064	0.0192
6	3	HDR UNBIAS	4.646	4.6472	0.0012
7	3	HDR UNBIAS	4.8171	4.8255	0.0084
8	3	HDR UNBIAS	4.7642	4.7661	0.0019
9	3	HDR UNBIAS	4.7278	4.7378	0.01
10	3	HDR UNBIAS	4.6938	4.6937	-0.0001
11	10	HDR BIAS	4.7543	4.7399	-0.0144
12	10	HDR BIAS	4.7283	4.7166	-0.0117
13	10	HDR BIAS	4.7755	4.7951	0.0196
14	10	HDR BIAS	4.7657	4.7588	-0.0069
15	10	HDR BIAS	4.8415	4.8272	-0.0143
16	10	HDR UNBIAS	4.6786	4.6769	-0.0017
17	10	HDR UNBIAS	4.7089	4.7325	0.0236
18	10	HDR UNBIAS	4.6643	4.6599	-0.0044
19	10	HDR UNBIAS	4.7909	4.7989	0.008
20	10	HDR UNBIAS	4.6844	4.679	-0.0054
31	30	HDR BIAS	4.7835	4.8084	0.0249
32	30	HDR BIAS	4.7478	4.7607	0.0129
33	30	HDR BIAS	4.6581	4.6854	0.0273
34	30	HDR BIAS	4.7584	4.7451	-0.0133
35	30	HDR BIAS	4.8029	4.7955	-0.0074
36	30	HDR UNBIAS	4.8444	4.828	-0.0164
37	30	HDR UNBIAS	4.691	4.7195	0.0285
38	30	HDR UNBIAS	4.7541	4.7786	0.0245
39	30	HDR UNBIAS	4.7153	4.7022	-0.0131
40	30	HDR UNBIAS	4.8052	4.7967	-0.0085
41	50	HDR BIAS	4.7886	4.8095	0.0209
42	50	HDR BIAS	4.7413	4.7698	0.0285
43	50	HDR BIAS	4.7079	4.7294	0.0215
44	50	HDR BIAS	4.6688	4.6858	0.017
45	50	HDR BIAS	4.6765	4.7295	0.053
46	50	HDR UNBIAS	4.7326	4.7619	0.0293
47	50	HDR UNBIAS	4.77	4.8023	0.0323
48	50	HDR UNBIAS	4.7102	4.7115	0.0013
49	50	HDR UNBIAS	4.7417	4.7489	0.0072
50	50	HDR UNBIAS	4.8094	4.8351	0.0257
51	100	HDR BIAS	4.7477	4.8095	0.0618
52	100	HDR BIAS	4.7846	4.8176	0.033
53	100	HDR BIAS	4.7422	4.7993	0.0571
54	100	HDR BIAS	4.7287	4.7436	0.0149
55	100	HDR BIAS	4.8271	4.8889	0.0618
56	100	HDR UNBIAS	4.7832	4.7804	-0.0028
57	100	HDR UNBIAS	4.7704	4.8174	0.047
58	100	HDR UNBIAS	4.8014	4.8121	0.0107
59	100	HDR UNBIAS	4.7782	4.8362	0.058
60	100	HDR UNBIAS	4.786	4.8474	0.0614
91	0	CORRELATION	4.6636	4.6709	0.0073
92	0	CORRELATION	4.7453	4.7388	-0.0065
93	0	CORRELATION	4.7812	4.7812	0
94	0	CORRELATION	4.7416	4.7377	-0.0039

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.6636	4.7329	4.7812	0.049547	4.6709	4.7321	4.7812	0.04558	-0.0065	-0.000775	0.0073	0.0060096
3	4.646	4.7414	4.8171	0.048404	4.6472	4.7464	4.8255	0.051349	-0.0052	0.00496	0.0192	0.0088339
10	4.6643	4.7392	4.8415	0.056479	4.6599	4.7385	4.8272	0.056923	-0.0144	-0.00076	0.0236	0.013528
30	4.6581	4.7561	4.8444	0.056503	4.6854	4.762	4.828	0.047898	-0.0164	0.00594	0.0285	0.019252
50	4.6688	4.7347	4.8094	0.045798	4.6858	4.7584	4.8351	0.046905	0.0013	0.02367	0.053	0.01423
100	4.7287	4.7749	4.8271	0.029227	4.7436	4.8152	4.8889	0.038805	-0.0028	0.04029	0.0618	0.024591

Device Test: 14.20 IDD|SUPPLY CURRENT/IN/8/8/0/1000/5/100kHz//@IDD_ACT_100K_LOAD





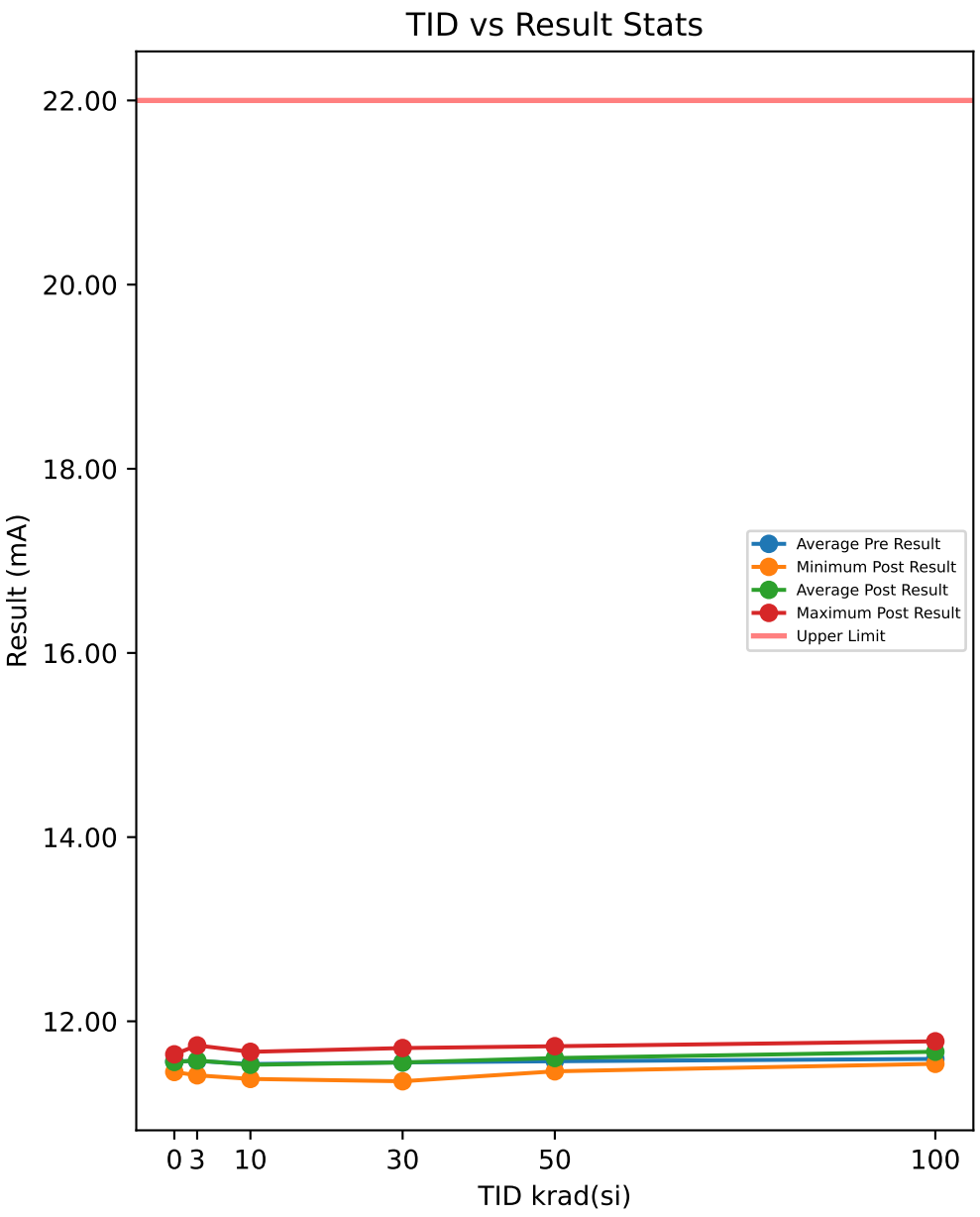
Test Results (Upper Limit = 12.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.169	7.1897	0.0207
2	3	HDR BIAS	7.1949	7.1933	-0.0016
3	3	HDR BIAS	7.1799	7.1742	-0.0057
4	3	HDR BIAS	7.2665	7.2593	-0.0072
5	3	HDR BIAS	7.3311	7.3659	0.0348
6	3	HDR UNBIAS	7.0571	7.0596	0.0025
7	3	HDR UNBIAS	7.371	7.3742	0.0032
8	3	HDR UNBIAS	7.2351	7.2335	-0.0016
9	3	HDR UNBIAS	7.2384	7.2535	0.0151
10	3	HDR UNBIAS	7.136	7.1362	0.0002
11	10	HDR BIAS	7.2415	7.207	-0.0345
12	10	HDR BIAS	7.2329	7.2151	-0.0178
13	10	HDR BIAS	7.2567	7.2811	0.0244
14	10	HDR BIAS	7.2892	7.2733	-0.0159
15	10	HDR BIAS	7.4199	7.3866	-0.0333
16	10	HDR UNBIAS	7.1164	7.092	-0.0244
17	10	HDR UNBIAS	7.1472	7.19	0.0428
18	10	HDR UNBIAS	7.0324	7.0288	-0.0036
19	10	HDR UNBIAS	7.2916	7.2884	-0.0032
20	10	HDR UNBIAS	7.0445	7.0287	-0.0158
31	30	HDR BIAS	7.3366	7.3665	0.0299
32	30	HDR BIAS	7.2167	7.2586	0.0419
33	30	HDR BIAS	7.0129	7.0311	0.0182
34	30	HDR BIAS	7.1724	7.1186	-0.0538
35	30	HDR BIAS	7.2667	7.2438	-0.0229
36	30	HDR UNBIAS	7.3894	7.3531	-0.0363
37	30	HDR UNBIAS	7.1146	7.1389	0.0243
38	30	HDR UNBIAS	7.2359	7.262	0.0261
39	30	HDR UNBIAS	7.1512	7.1227	-0.0285
40	30	HDR UNBIAS	7.3764	7.3477	-0.0287
41	50	HDR BIAS	7.3262	7.3419	0.0157
42	50	HDR BIAS	7.272	7.2935	0.0215
43	50	HDR BIAS	7.2159	7.2305	0.0146
44	50	HDR BIAS	7.0795	7.1358	0.0563
45	50	HDR BIAS	7.1152	7.1892	0.074
46	50	HDR UNBIAS	7.1884	7.2069	0.0185
47	50	HDR UNBIAS	7.236	7.2774	0.0414
48	50	HDR UNBIAS	7.1552	7.1183	-0.0369
49	50	HDR UNBIAS	7.2435	7.25	0.0065
50	50	HDR UNBIAS	7.3186	7.3261	0.0075
51	100	HDR BIAS	7.2688	7.3664	0.0976
52	100	HDR BIAS	7.2359	7.2796	0.0437
53	100	HDR BIAS	7.2332	7.314	0.0808
54	100	HDR BIAS	7.1436	7.1763	0.0327
55	100	HDR BIAS	7.3369	7.4435	0.1066
56	100	HDR UNBIAS	7.3902	7.3333	-0.0569
57	100	HDR UNBIAS	7.1905	7.279	0.0885
58	100	HDR UNBIAS	7.3008	7.2935	-0.0073
59	100	HDR UNBIAS	7.2443	7.3434	0.0991
60	100	HDR UNBIAS	7.3033	7.3607	0.0574
91	0	CORRELATION	7.1203	7.1298	0.0095
92	0	CORRELATION	7.1618	7.1546	-0.0072
93	0	CORRELATION	7.2951	7.2904	-0.0047
94	0	CORRELATION	7.2888	7.2834	-0.0054

Test Statistics (mA)

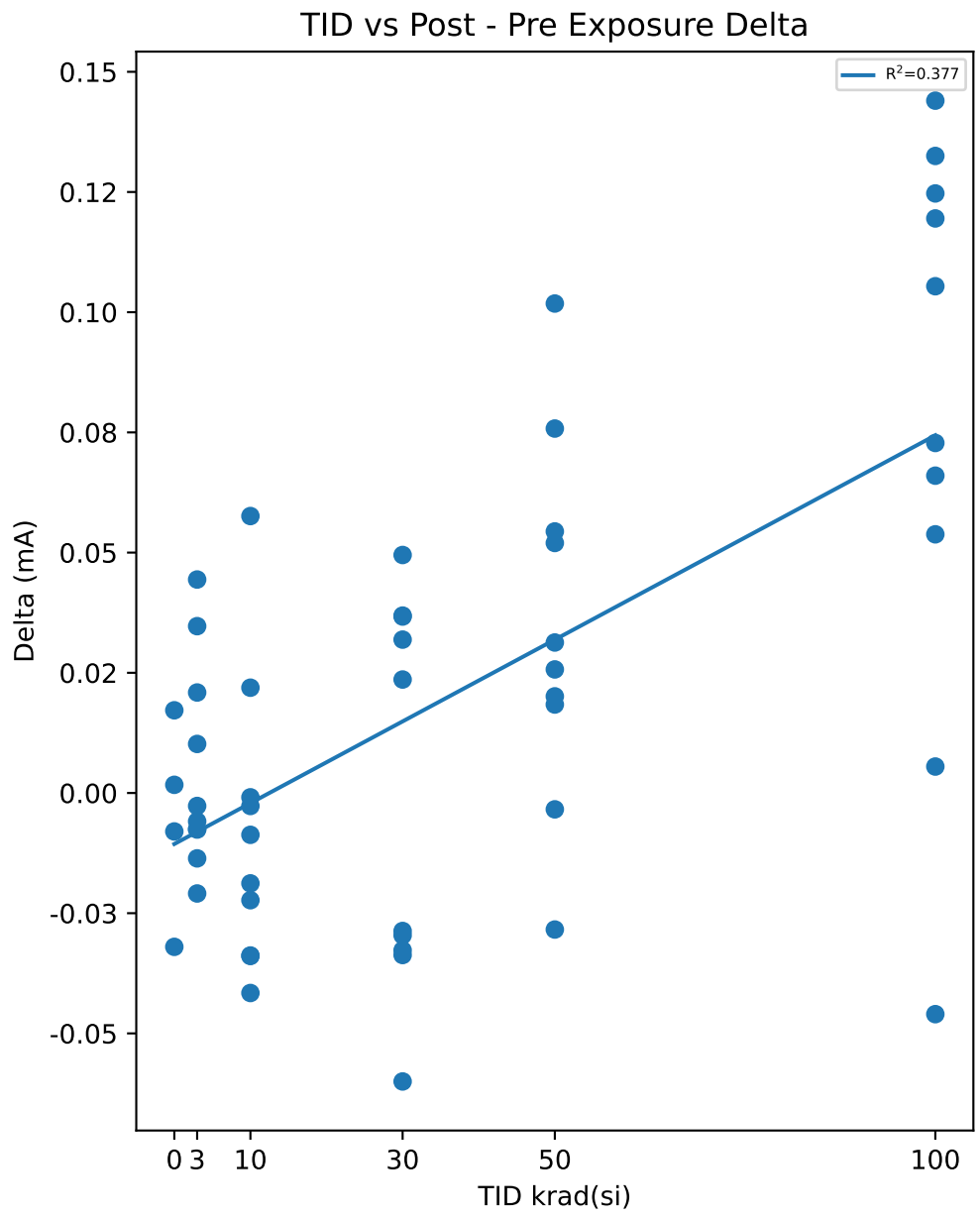
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1203	7.2165	7.2951	0.088791	7.1298	7.2146	7.2904	0.084202	-0.0072	-0.00195	0.0095	0.0077056
3	7.0571	7.2179	7.371	0.092051	7.0596	7.2239	7.3742	0.096746	-0.0072	0.00604	0.0348	0.01337
10	7.0324	7.2072	7.4199	0.12122	7.0287	7.1991	7.3866	0.11798	-0.0345	-0.00813	0.0428	0.024728
30	7.0129	7.2273	7.3894	0.12003	7.0311	7.2243	7.3665	0.11601	-0.0538	-0.00298	0.0419	0.034215
50	7.0795	7.215	7.3262	0.081789	7.1183	7.237	7.3419	0.075646	-0.0369	0.02191	0.074	0.030338
100	7.1436	7.2647	7.3902	0.071633	7.1763	7.319	7.4435	0.070298	-0.0569	0.05422	0.1066	0.052954

Device Test: 14.21 IDD|SUPPLY CURRENT/IN/8/8/0/1000/5/500kHz//@IDD_ACT_500K_LOAD



Test Results (Upper Limit = 22.0 (mA))

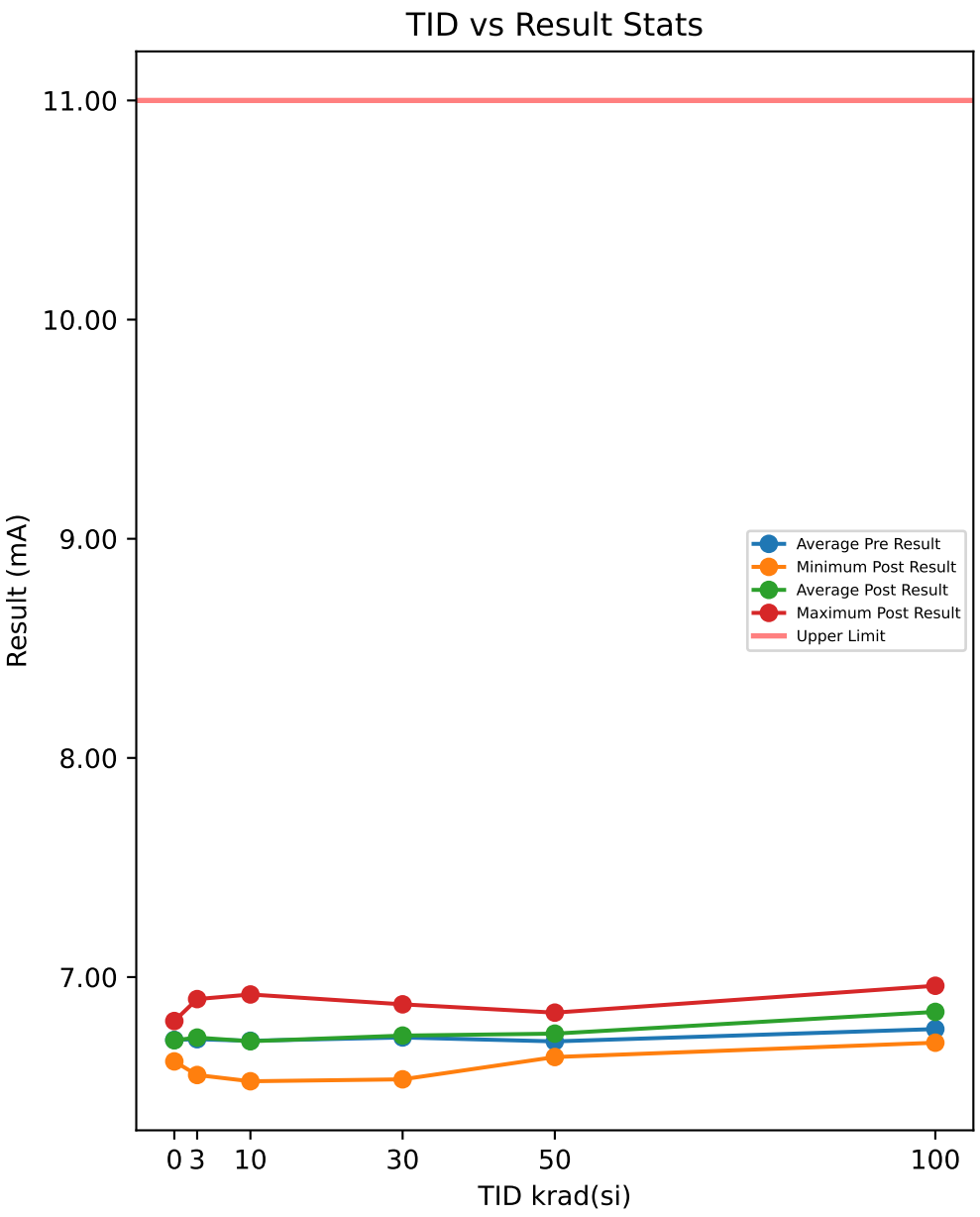
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	11.517	11.538	0.0209
2	3	HDR BIAS	11.549	11.547	-0.0027
3	3	HDR BIAS	11.57	11.563	-0.0076
4	3	HDR BIAS	11.616	11.603	-0.0136
5	3	HDR BIAS	11.694	11.738	0.0444
6	3	HDR UNBIAS	11.403	11.413	0.0102
7	3	HDR UNBIAS	11.693	11.672	-0.0209
8	3	HDR UNBIAS	11.593	11.587	-0.0059
9	3	HDR UNBIAS	11.577	11.611	0.0347
10	3	HDR UNBIAS	11.481	11.473	-0.0075
11	10	HDR BIAS	11.592	11.551	-0.0416
12	10	HDR BIAS	11.55	11.548	-0.0027
13	10	HDR BIAS	11.591	11.613	0.0219
14	10	HDR BIAS	11.659	11.65	-0.0087
15	10	HDR BIAS	11.702	11.668	-0.0339
16	10	HDR UNBIAS	11.468	11.434	-0.0338
17	10	HDR UNBIAS	11.413	11.471	0.0576
18	10	HDR UNBIAS	11.375	11.374	-0.0009
19	10	HDR UNBIAS	11.602	11.58	-0.0223
20	10	HDR UNBIAS	11.405	11.386	-0.0188
31	30	HDR BIAS	11.643	11.666	0.0236
32	30	HDR BIAS	11.532	11.582	0.0495
33	30	HDR BIAS	11.317	11.349	0.0319
34	30	HDR BIAS	11.508	11.448	-0.06
35	30	HDR BIAS	11.574	11.541	-0.0337
36	30	HDR UNBIAS	11.739	11.709	-0.0296
37	30	HDR UNBIAS	11.434	11.47	0.0369
38	30	HDR UNBIAS	11.59	11.627	0.0367
39	30	HDR UNBIAS	11.466	11.433	-0.0327
40	30	HDR UNBIAS	11.732	11.703	-0.0287
41	50	HDR BIAS	11.698	11.729	0.0313
42	50	HDR BIAS	11.619	11.673	0.0544
43	50	HDR BIAS	11.599	11.595	-0.0034
44	50	HDR BIAS	11.381	11.457	0.0758
45	50	HDR BIAS	11.425	11.527	0.1018
46	50	HDR UNBIAS	11.587	11.607	0.0201
47	50	HDR UNBIAS	11.555	11.607	0.052
48	50	HDR UNBIAS	11.508	11.48	-0.0284
49	50	HDR UNBIAS	11.597	11.623	0.0257
50	50	HDR UNBIAS	11.692	11.71	0.0184
51	100	HDR BIAS	11.617	11.736	0.1195
52	100	HDR BIAS	11.559	11.612	0.0538
53	100	HDR BIAS	11.541	11.685	0.144
54	100	HDR BIAS	11.465	11.538	0.0728
55	100	HDR BIAS	11.677	11.782	0.1054
56	100	HDR UNBIAS	11.706	11.66	-0.046
57	100	HDR UNBIAS	11.458	11.59	0.1325
58	100	HDR UNBIAS	11.65	11.656	0.0055
59	100	HDR UNBIAS	11.593	11.718	0.1247
60	100	HDR UNBIAS	11.647	11.713	0.066
91	0	CORRELATION	11.432	11.449	0.0172
92	0	CORRELATION	11.526	11.528	0.0017
93	0	CORRELATION	11.649	11.617	-0.032
94	0	CORRELATION	11.649	11.641	-0.008

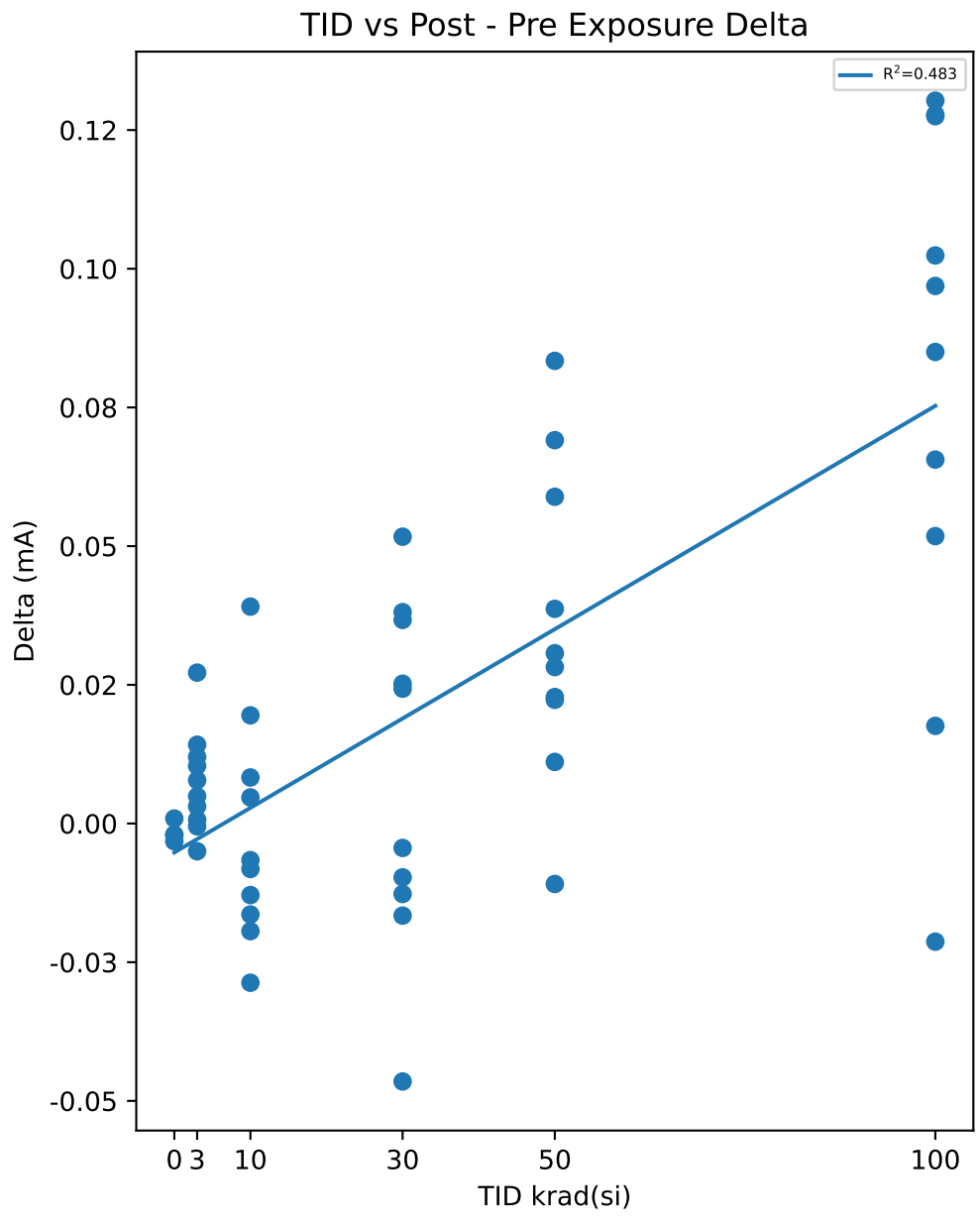


Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.432	11.564	11.649	0.10529	11.449	11.559	11.641	0.087699	-0.032	-0.005275	0.0172	0.020619
3	11.403	11.569	11.694	0.08942	11.413	11.574	11.738	0.092418	-0.0209	0.0052	0.0444	0.021664
10	11.375	11.536	11.702	0.11368	11.374	11.527	11.668	0.10609	-0.0416	-0.00832	0.0576	0.029929
30	11.317	11.553	11.739	0.13191	11.349	11.553	11.709	0.12484	-0.06	-0.00061	0.0495	0.039769
50	11.381	11.566	11.698	0.10333	11.457	11.601	11.729	0.091353	-0.0284	0.03477	0.1018	0.037835
100	11.458	11.591	11.706	0.085014	11.538	11.669	11.782	0.073678	-0.046	0.07782	0.144	0.06089

Device Test: 14.3 IDD|SUPPLY CURRENT/IN/12/12/0/0/5/100kHz//@IDD_ACT_100K_NOLOAD





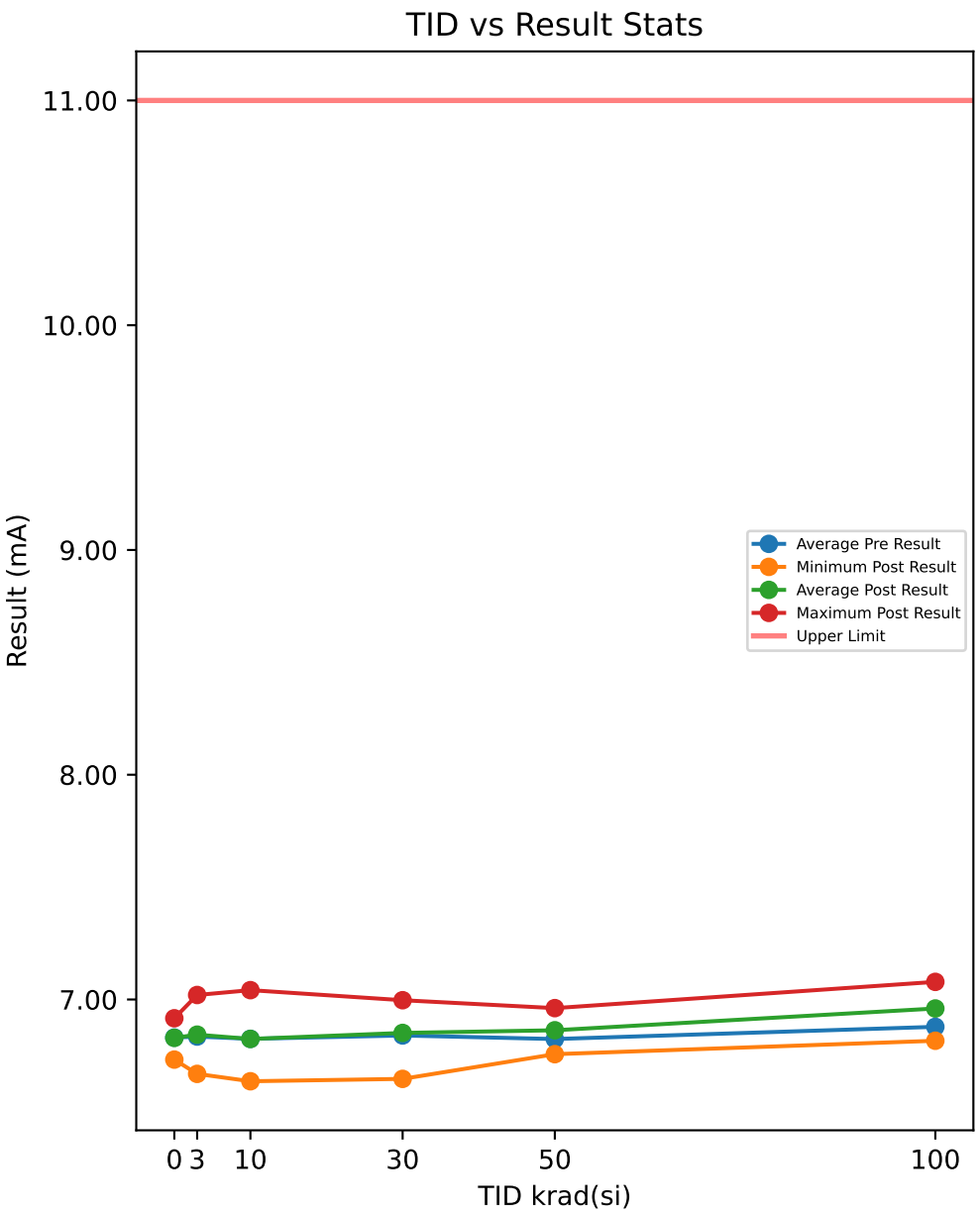
Test Results (Upper Limit = 11.0 (mA))

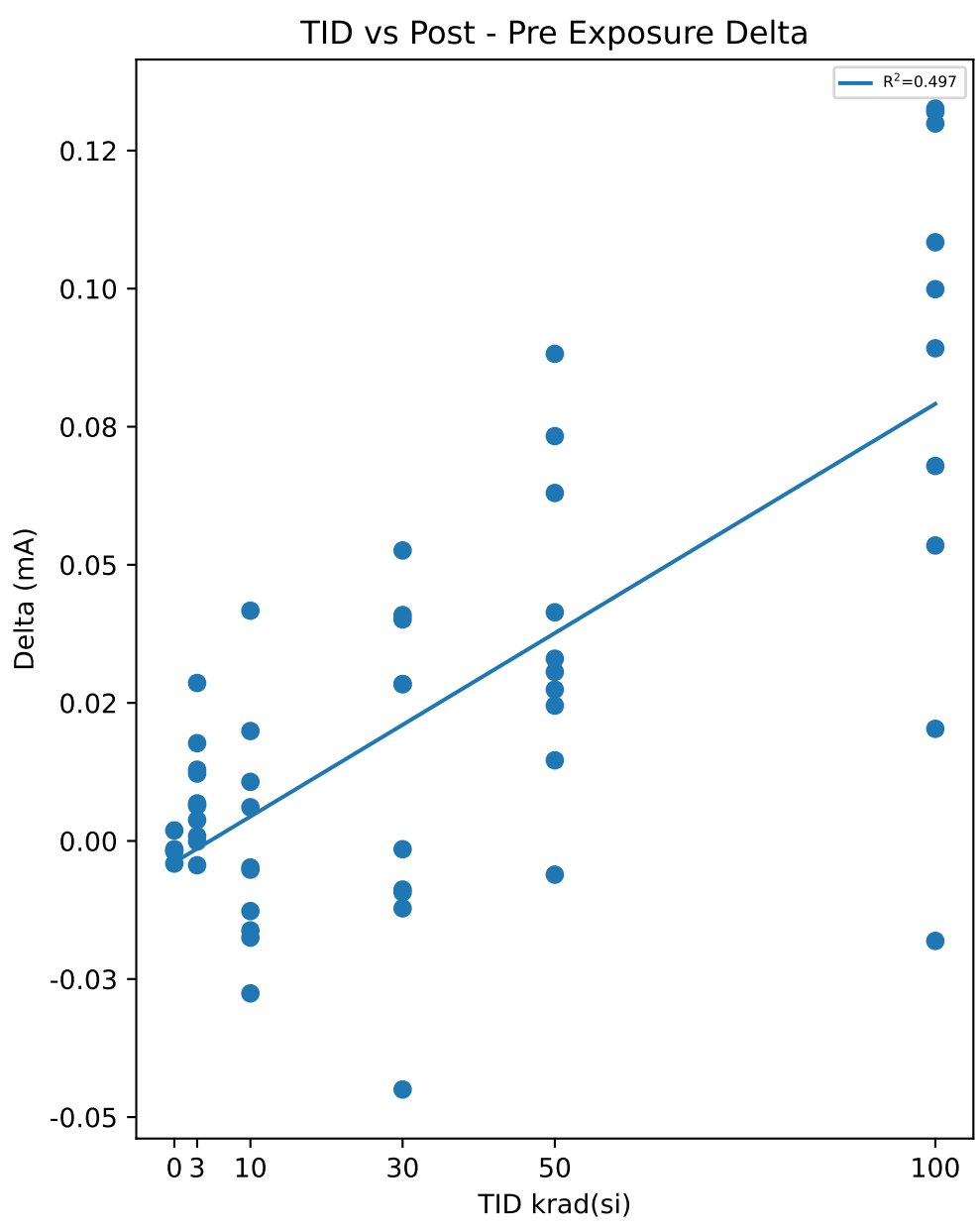
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	6.6594	6.6714	0.012
2	3	HDR BIAS	6.6999	6.6994	-0.0005
3	3	HDR BIAS	6.6635	6.6684	0.0049
4	3	HDR BIAS	6.7716	6.7666	-0.005
5	3	HDR BIAS	6.8168	6.844	0.0272
6	3	HDR UNBIAS	6.5428	6.5532	0.0104
7	3	HDR UNBIAS	6.8918	6.8996	0.0078
8	3	HDR UNBIAS	6.7245	6.7276	0.0031
9	3	HDR UNBIAS	6.7445	6.7587	0.0142
10	3	HDR UNBIAS	6.6502	6.6509	0.0007
11	10	HDR BIAS	6.7364	6.7077	-0.0287
12	10	HDR BIAS	6.7311	6.7229	-0.0082
13	10	HDR BIAS	6.7562	6.7757	0.0195
14	10	HDR BIAS	6.7821	6.7692	-0.0129
15	10	HDR BIAS	6.9401	6.9207	-0.0194
16	10	HDR UNBIAS	6.6076	6.5912	-0.0164
17	10	HDR UNBIAS	6.68	6.7191	0.0391
18	10	HDR UNBIAS	6.5164	6.5247	0.0083
19	10	HDR UNBIAS	6.8106	6.8153	0.0047
20	10	HDR UNBIAS	6.5334	6.5268	-0.0066
31	30	HDR BIAS	6.8367	6.8748	0.0381
32	30	HDR BIAS	6.7208	6.7725	0.0517
33	30	HDR BIAS	6.5083	6.5335	0.0252
34	30	HDR BIAS	6.6805	6.634	-0.0465
35	30	HDR BIAS	6.7683	6.7586	-0.0097
36	30	HDR UNBIAS	6.8884	6.8757	-0.0127
37	30	HDR UNBIAS	6.6015	6.6258	0.0243
38	30	HDR UNBIAS	6.7302	6.7669	0.0367
39	30	HDR UNBIAS	6.65	6.6456	-0.0044
40	30	HDR UNBIAS	6.8603	6.8437	-0.0166
41	50	HDR BIAS	6.8155	6.8378	0.0223
42	50	HDR BIAS	6.7623	6.801	0.0387
43	50	HDR BIAS	6.7007	6.7289	0.0282
44	50	HDR BIAS	6.5836	6.6527	0.0691
45	50	HDR BIAS	6.6017	6.6851	0.0834
46	50	HDR UNBIAS	6.667	6.6977	0.0307
47	50	HDR UNBIAS	6.7423	6.8012	0.0589
48	50	HDR UNBIAS	6.6461	6.6352	-0.0109
49	50	HDR UNBIAS	6.7425	6.7536	0.0111
50	50	HDR UNBIAS	6.804	6.8268	0.0228
51	100	HDR BIAS	6.7396	6.8671	0.1275
52	100	HDR BIAS	6.7284	6.794	0.0656
53	100	HDR BIAS	6.7417	6.8267	0.085
54	100	HDR BIAS	6.6488	6.7006	0.0518
55	100	HDR BIAS	6.8326	6.9604	0.1278
56	100	HDR UNBIAS	6.8962	6.8749	-0.0213
57	100	HDR UNBIAS	6.6924	6.7948	0.1024
58	100	HDR UNBIAS	6.8119	6.8295	0.0176
59	100	HDR UNBIAS	6.7312	6.8615	0.1303
60	100	HDR UNBIAS	6.8057	6.9026	0.0969
91	0	CORRELATION	6.6144	6.6153	0.0009
92	0	CORRELATION	6.6461	6.6441	-0.002
93	0	CORRELATION	6.8027	6.7995	-0.0032
94	0	CORRELATION	6.7903	6.7882	-0.0021

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.6144	6.7134	6.8027	0.096985	6.6153	6.7118	6.7995	0.09561	-0.0032	-0.0016	0.0009	0.0017531
3	6.5428	6.7165	6.8918	0.097517	6.5532	6.724	6.8996	0.099581	-0.005	0.00748	0.0272	0.0091551
10	6.5164	6.7094	6.9401	0.12978	6.5247	6.7073	6.9207	0.12715	-0.0287	-0.00206	0.0391	0.020286
30	6.5083	6.7245	6.8884	0.11982	6.5335	6.7331	6.8757	0.11777	-0.0465	0.00861	0.0517	0.031034
50	6.5836	6.7066	6.8155	0.080559	6.6352	6.742	6.8378	0.073213	-0.0109	0.03543	0.0834	0.028169
100	6.6488	6.7629	6.8962	0.073057	6.7006	6.8412	6.9604	0.070469	-0.0213	0.07836	0.1303	0.050569

Device Test: 14.4 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/100kHz//@IDD_ACT_100K_NOLOAD





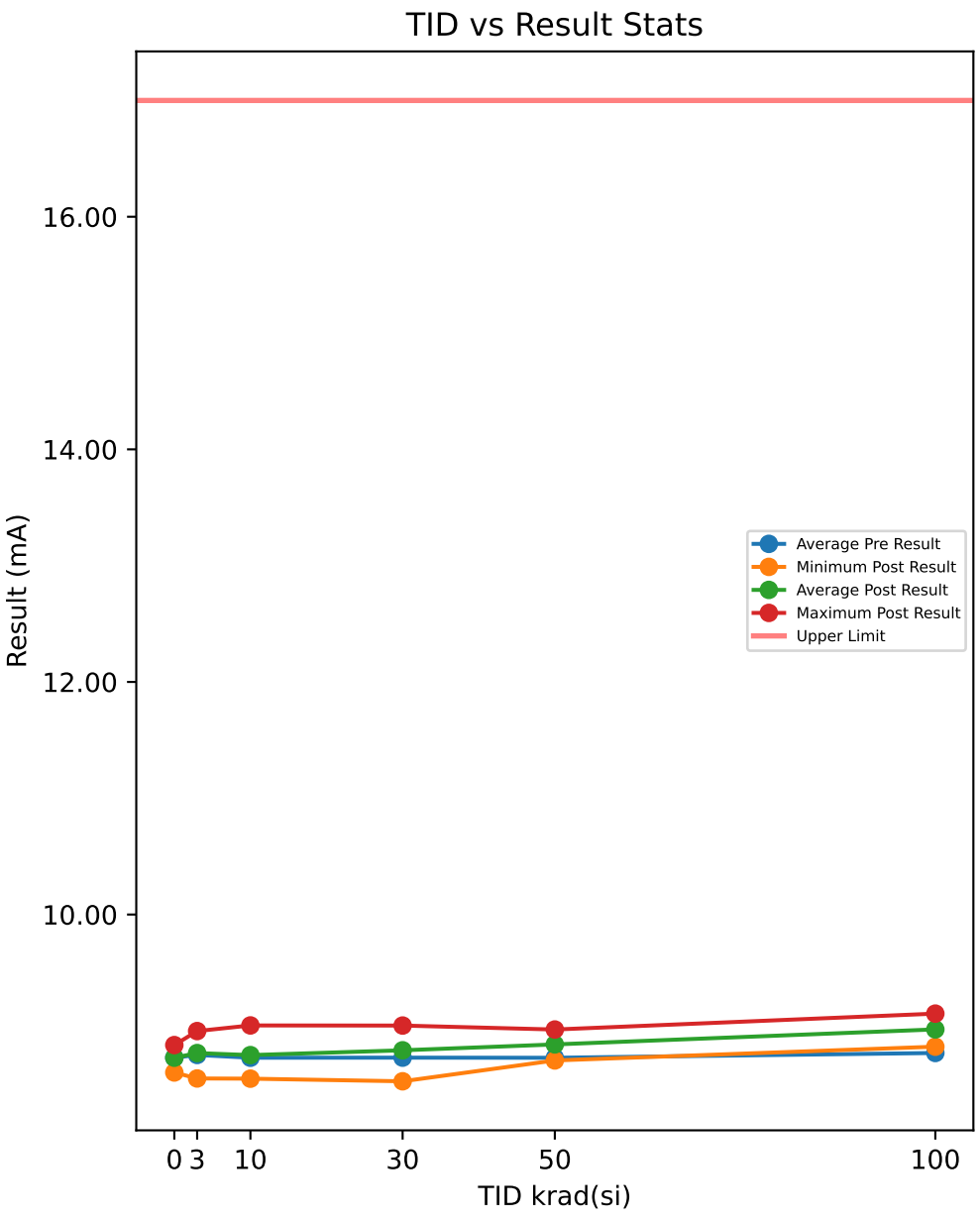
Test Results (Upper Limit = 11.0 (mA))

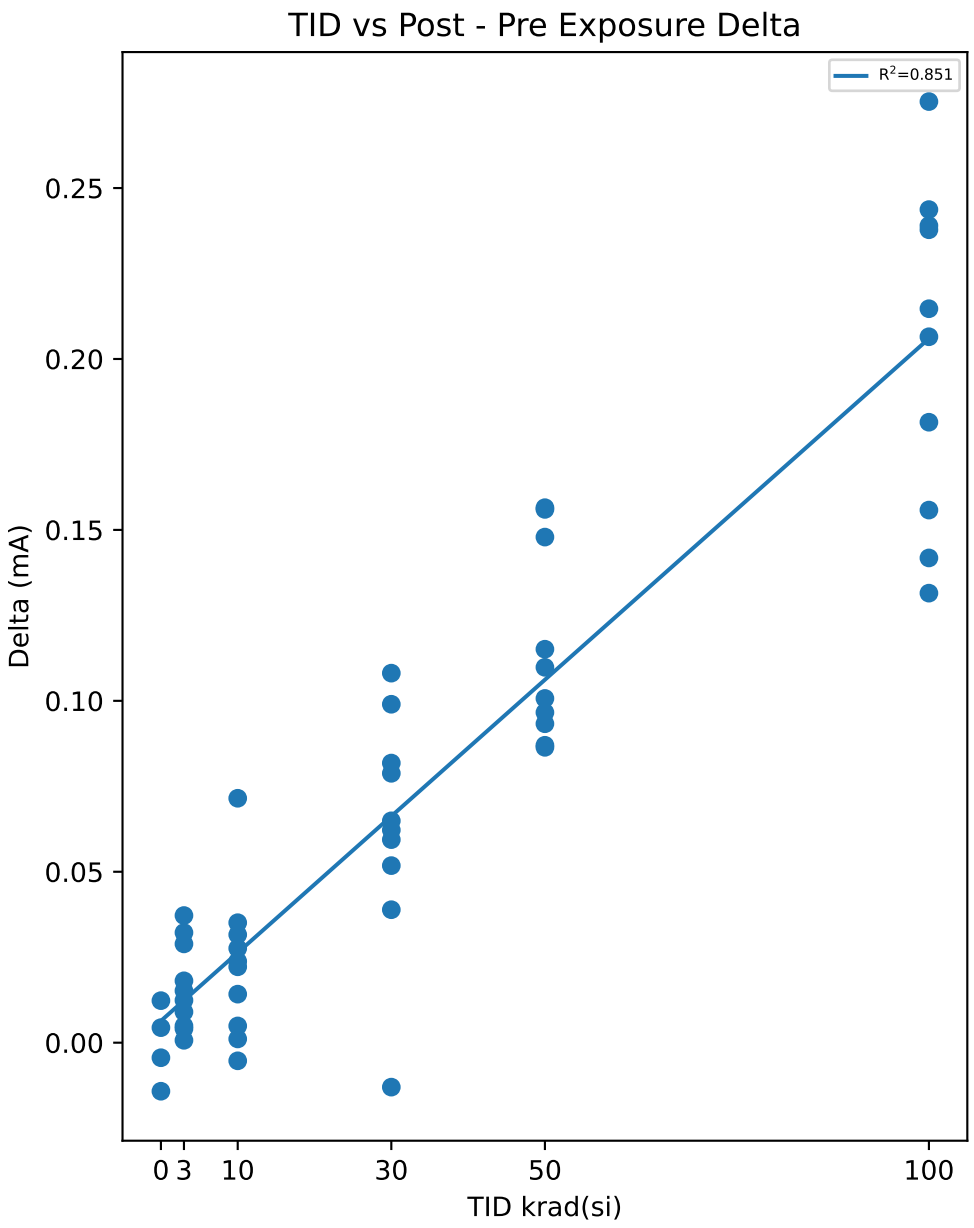
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	6.7765	6.7894	0.0129
2	3	HDR BIAS	6.8196	6.8195	-0.0001
3	3	HDR BIAS	6.7806	6.787	0.0064
4	3	HDR BIAS	6.8936	6.8892	-0.0044
5	3	HDR BIAS	6.9331	6.9617	0.0286
6	3	HDR UNBIAS	6.6568	6.669	0.0122
7	3	HDR UNBIAS	7.0132	7.02	0.0068
8	3	HDR UNBIAS	6.8396	6.8434	0.0038
9	3	HDR UNBIAS	6.8667	6.8844	0.0177
10	3	HDR UNBIAS	6.7712	6.7721	0.0009
11	10	HDR BIAS	6.8525	6.8249	-0.0276
12	10	HDR BIAS	6.8456	6.8404	-0.0052
13	10	HDR BIAS	6.8689	6.8888	0.0199
14	10	HDR BIAS	6.9026	6.8899	-0.0127
15	10	HDR BIAS	7.0591	7.0416	-0.0175
16	10	HDR UNBIAS	6.7246	6.7084	-0.0162
17	10	HDR UNBIAS	6.7973	6.839	0.0417
18	10	HDR UNBIAS	6.6255	6.6362	0.0107
19	10	HDR UNBIAS	6.9262	6.9323	0.0061
20	10	HDR UNBIAS	6.6476	6.6428	-0.0048
31	30	HDR BIAS	6.9501	6.991	0.0409
32	30	HDR BIAS	6.8327	6.8853	0.0526
33	30	HDR BIAS	6.6184	6.6468	0.0284
34	30	HDR BIAS	6.7982	6.7532	-0.045
35	30	HDR BIAS	6.8857	6.8769	-0.0088
36	30	HDR UNBIAS	7.0061	6.9968	-0.0093
37	30	HDR UNBIAS	6.7158	6.7442	0.0284
38	30	HDR UNBIAS	6.8489	6.889	0.0401
39	30	HDR UNBIAS	6.7653	6.7638	-0.0015
40	30	HDR UNBIAS	6.9781	6.9659	-0.0122
41	50	HDR BIAS	6.9371	6.9616	0.0245
42	50	HDR BIAS	6.8818	6.9232	0.0414
43	50	HDR BIAS	6.8225	6.8531	0.0306
44	50	HDR BIAS	6.6981	6.7714	0.0733
45	50	HDR BIAS	6.7115	6.7997	0.0882
46	50	HDR UNBIAS	6.7811	6.8141	0.033
47	50	HDR UNBIAS	6.8616	6.9246	0.063
48	50	HDR UNBIAS	6.7628	6.7567	-0.0061
49	50	HDR UNBIAS	6.862	6.8766	0.0146
50	50	HDR UNBIAS	6.9223	6.9497	0.0274
51	100	HDR BIAS	6.8529	6.9849	0.132
52	100	HDR BIAS	6.8426	6.9105	0.0679
53	100	HDR BIAS	6.857	6.9462	0.0892
54	100	HDR BIAS	6.7629	6.8164	0.0535
55	100	HDR BIAS	6.9485	7.0784	0.1299
56	100	HDR UNBIAS	7.0158	6.9977	-0.0181
57	100	HDR UNBIAS	6.8019	6.9103	0.1084
58	100	HDR UNBIAS	6.9311	6.9514	0.0203
59	100	HDR UNBIAS	6.8475	6.9801	0.1326
60	100	HDR UNBIAS	6.9238	7.0237	0.0999
91	0	CORRELATION	6.7307	6.7326	0.0019
92	0	CORRELATION	6.7608	6.7589	-0.0019
93	0	CORRELATION	6.9205	6.9164	-0.0041
94	0	CORRELATION	6.9105	6.909	-0.0015

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.7307	6.8306	6.9205	0.098857	6.7326	6.8292	6.9164	0.097032	-0.0041	-0.0014	0.0019	0.0024792
3	6.6568	6.8351	7.0132	0.099042	6.669	6.8436	7.02	0.10062	-0.0044	0.00848	0.0286	0.0097138
10	6.6255	6.825	7.0591	0.13178	6.6362	6.8244	7.0416	0.12892	-0.0276	-0.00056	0.0417	0.020616
30	6.6184	6.8399	7.0061	0.1215	6.6468	6.8513	6.9968	0.11908	-0.045	0.01136	0.0526	0.03111
50	6.6981	6.8241	6.9371	0.083499	6.7567	6.8631	6.9616	0.075298	-0.0061	0.03899	0.0882	0.028401
100	6.7629	6.8784	7.0158	0.075401	6.8164	6.96	7.0784	0.071746	-0.0181	0.08156	0.1326	0.050837

Device Test: 14.5 IDD|SUPPLY CURRENT/IN/12/12/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD





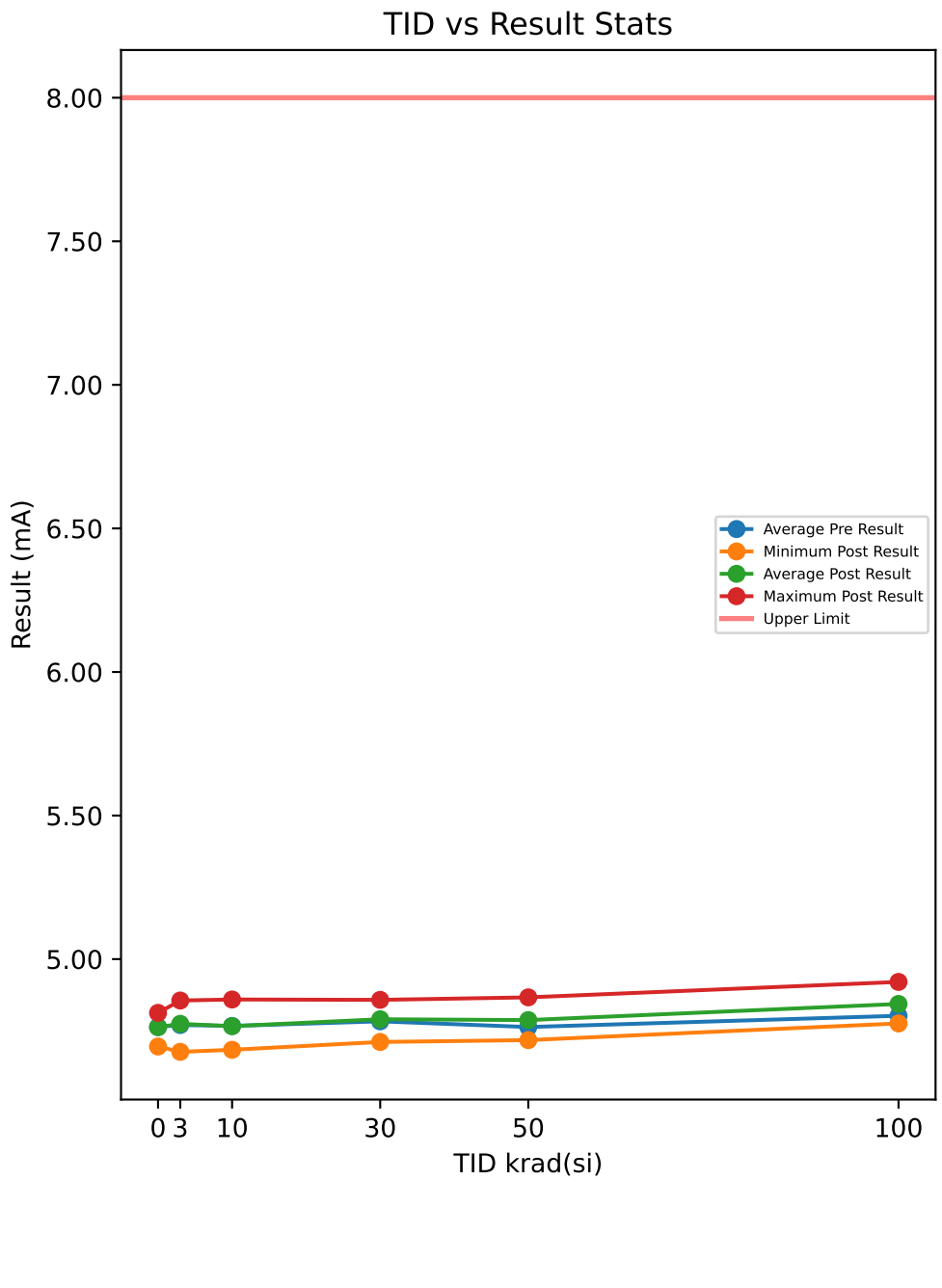
Test Results (Upper Limit = 17.0 (mA))

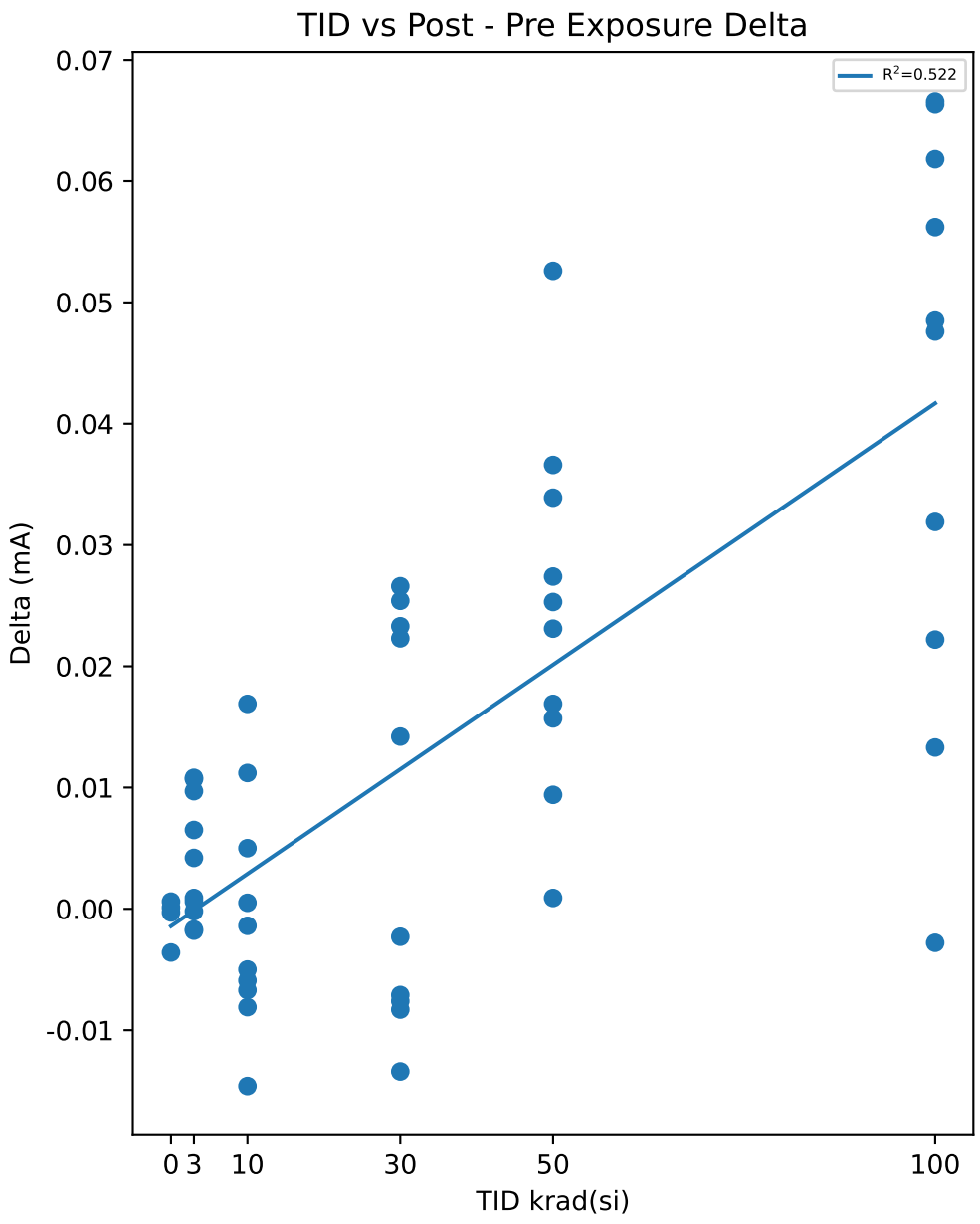
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	8.7338	8.7462	0.0124
2	3	HDR BIAS	8.7812	8.7853	0.0041
3	3	HDR BIAS	8.7485	8.7637	0.0152
4	3	HDR BIAS	8.8675	8.8724	0.0049
5	3	HDR BIAS	8.8551	8.8923	0.0372
6	3	HDR UNBIAS	8.5722	8.5903	0.0181
7	3	HDR UNBIAS	8.9888	8.9978	0.009
8	3	HDR UNBIAS	8.766	8.7949	0.0289
9	3	HDR UNBIAS	8.8564	8.8886	0.0322
10	3	HDR UNBIAS	8.7555	8.7562	0.0007
11	10	HDR BIAS	8.7819	8.7766	-0.0053
12	10	HDR BIAS	8.7884	8.816	0.0276
13	10	HDR BIAS	8.7698	8.7936	0.0238
14	10	HDR BIAS	8.8607	8.8656	0.0049
15	10	HDR BIAS	9.0452	9.0463	0.0011
16	10	HDR UNBIAS	8.6662	8.6804	0.0142
17	10	HDR UNBIAS	8.7531	8.8246	0.0715
18	10	HDR UNBIAS	8.557	8.5886	0.0316
19	10	HDR UNBIAS	8.8975	8.9197	0.0222
20	10	HDR UNBIAS	8.565	8.6001	0.0351
31	30	HDR BIAS	8.8827	8.9645	0.0818
32	30	HDR BIAS	8.7593	8.8674	0.1081
33	30	HDR BIAS	8.5011	8.566	0.0649
34	30	HDR BIAS	8.7756	8.7626	-0.013
35	30	HDR BIAS	8.8132	8.8521	0.0389
36	30	HDR UNBIAS	8.9831	9.0453	0.0622
37	30	HDR UNBIAS	8.6214	8.7002	0.0788
38	30	HDR UNBIAS	8.7566	8.8556	0.099
39	30	HDR UNBIAS	8.7157	8.7751	0.0594
40	30	HDR UNBIAS	8.8839	8.9357	0.0518
41	50	HDR BIAS	8.9179	9.0112	0.0933
42	50	HDR BIAS	8.851	8.9661	0.1151
43	50	HDR BIAS	8.784	8.871	0.087
44	50	HDR BIAS	8.6137	8.7702	0.1565
45	50	HDR BIAS	8.5973	8.7452	0.1479
46	50	HDR UNBIAS	8.715	8.8157	0.1007
47	50	HDR UNBIAS	8.8269	8.9829	0.156
48	50	HDR UNBIAS	8.7014	8.7878	0.0864
49	50	HDR UNBIAS	8.8108	8.9074	0.0966
50	50	HDR UNBIAS	8.8633	8.9731	0.1098
51	100	HDR BIAS	8.7567	9.0004	0.2437
52	100	HDR BIAS	8.7777	8.9592	0.1815
53	100	HDR BIAS	8.7662	8.9727	0.2065
54	100	HDR BIAS	8.7079	8.8637	0.1558
55	100	HDR BIAS	8.855	9.0697	0.2147
56	100	HDR UNBIAS	8.9896	9.1211	0.1315
57	100	HDR UNBIAS	8.6699	8.9077	0.2378
58	100	HDR UNBIAS	8.8908	9.0326	0.1418
59	100	HDR UNBIAS	8.7717	9.047	0.2753
60	100	HDR UNBIAS	8.9089	9.1479	0.239
91	0	CORRELATION	8.6373	8.6417	0.0044
92	0	CORRELATION	8.6986	8.6942	-0.0044
93	0	CORRELATION	8.8755	8.8613	-0.0142
94	0	CORRELATION	8.8651	8.8774	0.0123

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.6373	8.7691	8.8755	0.11955	8.6417	8.7687	8.8774	0.11842	-0.0142	-0.000475	0.0123	0.011413
3	8.5722	8.7925	8.9888	0.10968	8.5903	8.8088	8.9978	0.11071	0.0007	0.01627	0.0372	0.012664
10	8.557	8.7685	9.0452	0.14875	8.5886	8.7912	9.0463	0.14099	-0.0053	0.02267	0.0715	0.021806
30	8.5011	8.7693	8.9831	0.13768	8.566	8.8324	9.0453	0.13832	-0.013	0.06319	0.1081	0.034046
50	8.5973	8.7681	8.9179	0.10759	8.7452	8.8831	9.0112	0.098592	0.0864	0.11493	0.1565	0.028144
100	8.6699	8.8094	8.9896	0.098832	8.8637	9.0122	9.1479	0.089869	0.1315	0.20276	0.2753	0.048405

Device Test: 14.6 IDD_DIS|STANDBY CURRENT/IN/12/12/0/0/5/500kHz//@IDD_DIS





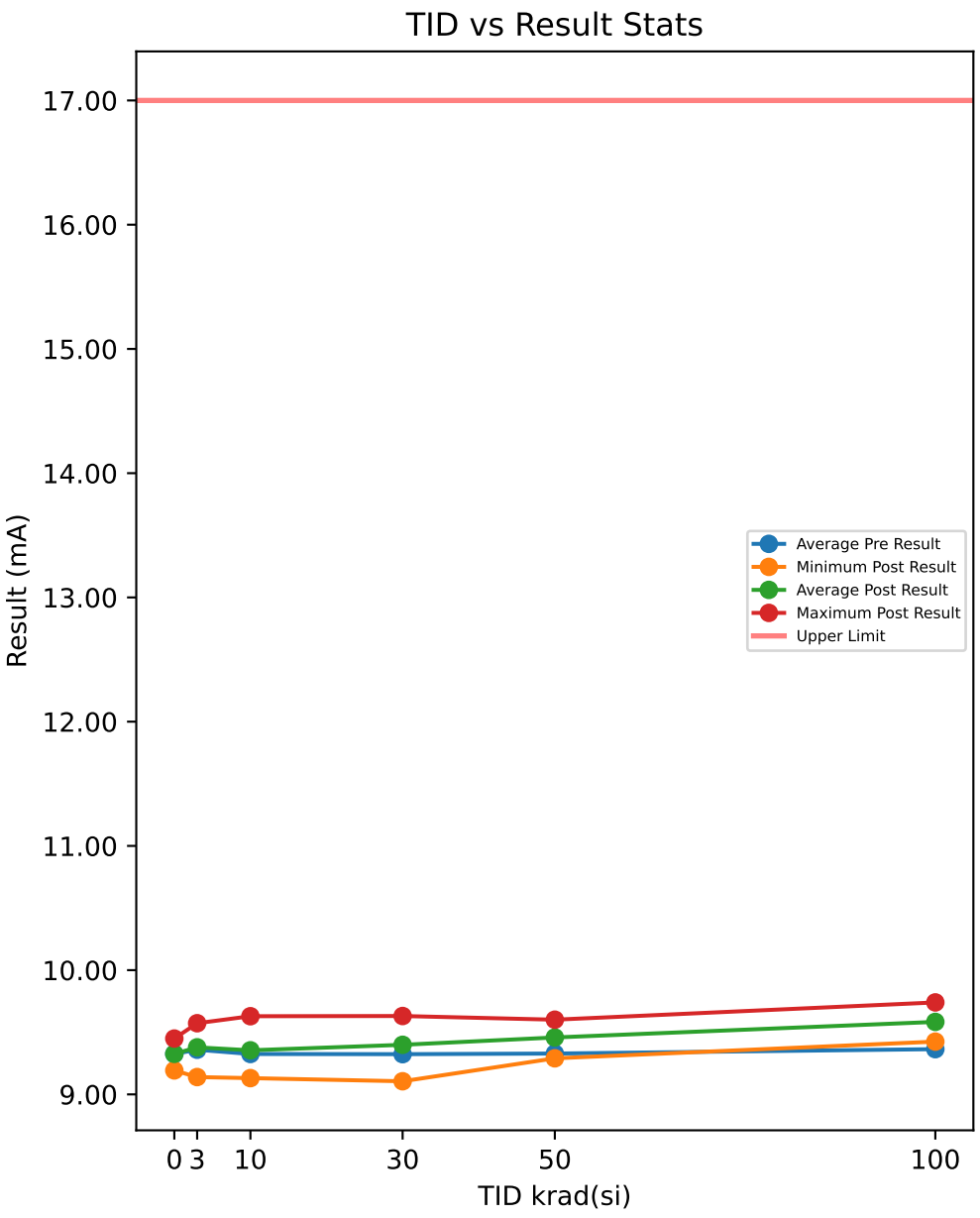
Test Results (Upper Limit = 8.0 (mA))

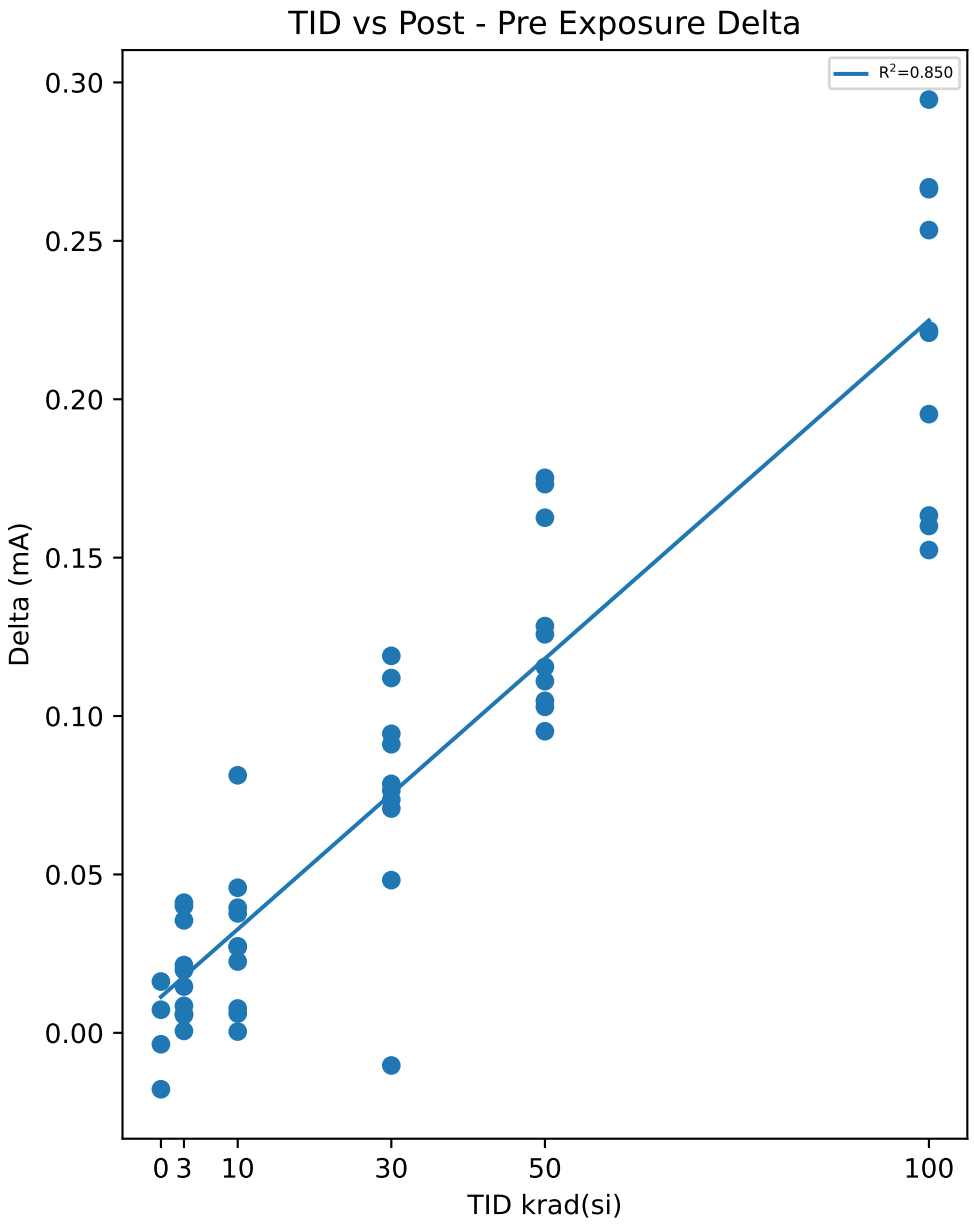
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	4.7551	4.7659	0.0108
2	3	HDR BIAS	4.7636	4.7619	-0.0017
3	3	HDR BIAS	4.7728	4.7734	0.0006
4	3	HDR BIAS	4.8022	4.8004	-0.0018
5	3	HDR BIAS	4.8199	4.8306	0.0107
6	3	HDR UNBIAS	4.6706	4.6771	0.0065
7	3	HDR UNBIAS	4.8516	4.8558	0.0042
8	3	HDR UNBIAS	4.7931	4.7929	-0.0002
9	3	HDR UNBIAS	4.7531	4.7628	0.0097
10	3	HDR UNBIAS	4.724	4.7249	0.0009
11	10	HDR BIAS	4.7836	4.769	-0.0146
12	10	HDR BIAS	4.7514	4.7447	-0.0067
13	10	HDR BIAS	4.8089	4.8201	0.0112
14	10	HDR BIAS	4.7971	4.789	-0.0081
15	10	HDR BIAS	4.8653	4.8594	-0.0059
16	10	HDR UNBIAS	4.7068	4.7054	-0.0014
17	10	HDR UNBIAS	4.7391	4.756	0.0169
18	10	HDR UNBIAS	4.6837	4.6842	0.0005
19	10	HDR UNBIAS	4.8213	4.8263	0.005
20	10	HDR UNBIAS	4.7158	4.7108	-0.005
31	30	HDR BIAS	4.8076	4.833	0.0254
32	30	HDR BIAS	4.7747	4.7889	0.0142
33	30	HDR BIAS	4.6849	4.7115	0.0266
34	30	HDR BIAS	4.7868	4.7734	-0.0134
35	30	HDR BIAS	4.8327	4.8256	-0.0071
36	30	HDR UNBIAS	4.8664	4.8581	-0.0083
37	30	HDR UNBIAS	4.7175	4.7398	0.0223
38	30	HDR UNBIAS	4.7887	4.812	0.0233
39	30	HDR UNBIAS	4.7364	4.7341	-0.0023
40	30	HDR UNBIAS	4.8375	4.8299	-0.0076
41	50	HDR BIAS	4.815	4.8307	0.0157
42	50	HDR BIAS	4.7639	4.8005	0.0366
43	50	HDR BIAS	4.7386	4.7617	0.0231
44	50	HDR BIAS	4.701	4.7179	0.0169
45	50	HDR BIAS	4.6991	4.7517	0.0526
46	50	HDR UNBIAS	4.7636	4.791	0.0274
47	50	HDR UNBIAS	4.7992	4.8331	0.0339
48	50	HDR UNBIAS	4.7372	4.7466	0.0094
49	50	HDR UNBIAS	4.7758	4.7767	0.0009
50	50	HDR UNBIAS	4.8415	4.8668	0.0253
51	100	HDR BIAS	4.7702	4.8368	0.0666
52	100	HDR BIAS	4.8118	4.8437	0.0319
53	100	HDR BIAS	4.7783	4.8268	0.0485
54	100	HDR BIAS	4.7538	4.776	0.0222
55	100	HDR BIAS	4.8588	4.9206	0.0618
56	100	HDR UNBIAS	4.8119	4.8091	-0.0028
57	100	HDR UNBIAS	4.7958	4.8434	0.0476
58	100	HDR UNBIAS	4.8327	4.846	0.0133
59	100	HDR UNBIAS	4.8065	4.8627	0.0562
60	100	HDR UNBIAS	4.807	4.8733	0.0663
91	0	CORRELATION	4.6959	4.6956	-0.0003
92	0	CORRELATION	4.7706	4.7707	0.0001
93	0	CORRELATION	4.8122	4.8128	0.0006
94	0	CORRELATION	4.7763	4.7727	-0.0036

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.6959	4.7637	4.8122	0.048838	4.6956	4.763	4.8128	0.048909	-0.0036	-0.0008	0.0006	0.0019026
3	4.6706	4.7706	4.8516	0.050846	4.6771	4.7746	4.8558	0.050645	-0.0018	0.00397	0.0108	0.0051082
10	4.6837	4.7673	4.8653	0.057498	4.6842	4.7665	4.8594	0.057529	-0.0146	-0.00081	0.0169	0.0095171
30	4.6849	4.7833	4.8664	0.056961	4.7115	4.7906	4.8581	0.04934	-0.0134	0.00731	0.0266	0.016405
50	4.6991	4.7635	4.8415	0.04658	4.7179	4.7877	4.8668	0.045942	0.0009	0.02418	0.0526	0.014737
100	4.7538	4.8027	4.8588	0.030438	4.776	4.8438	4.9206	0.038398	-0.0028	0.04116	0.0666	0.023992

Device Test: 14.7 IDD|SUPPLY CURRENT/IN/14/14/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD





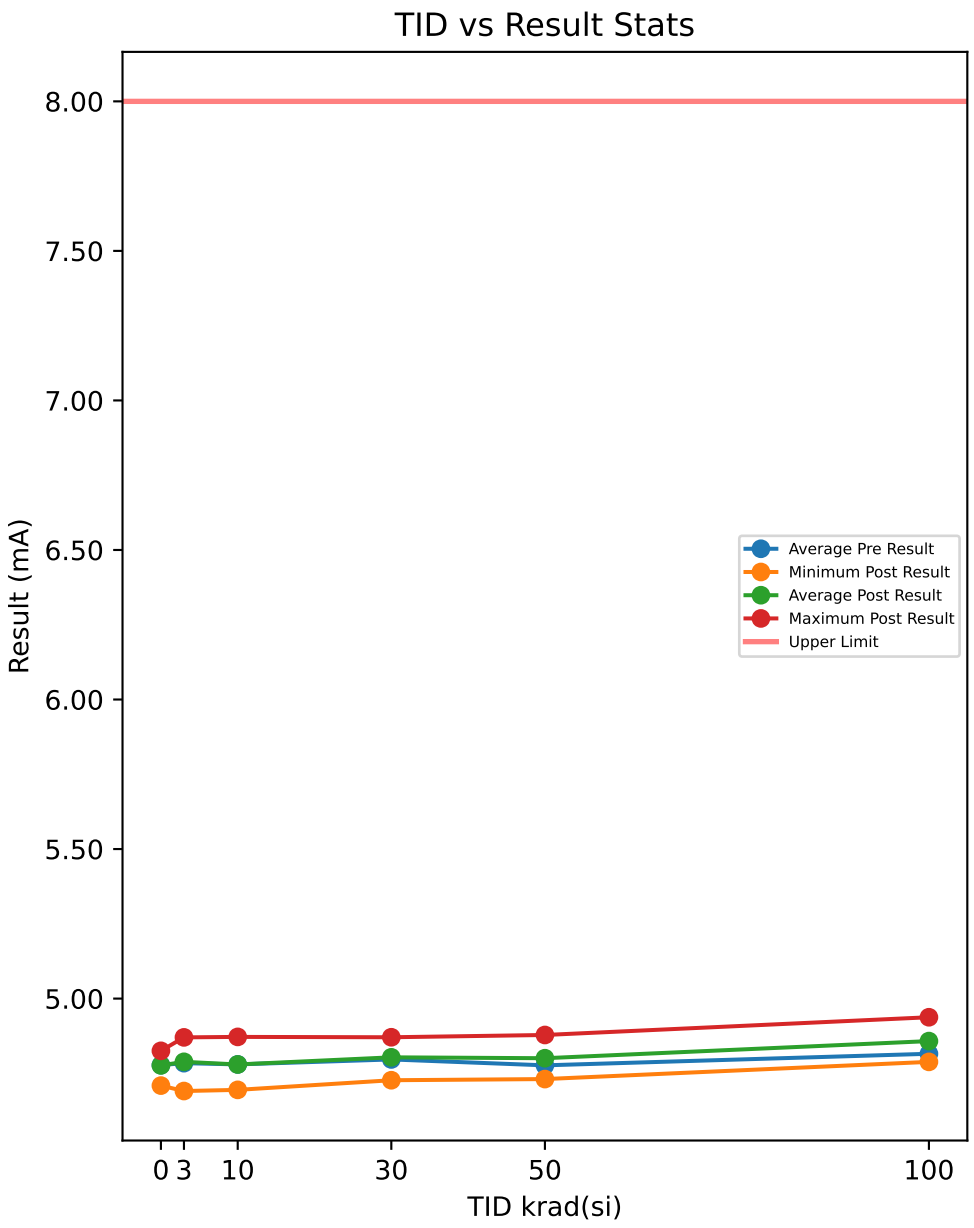
Test Results (Upper Limit = 17.0 (mA))

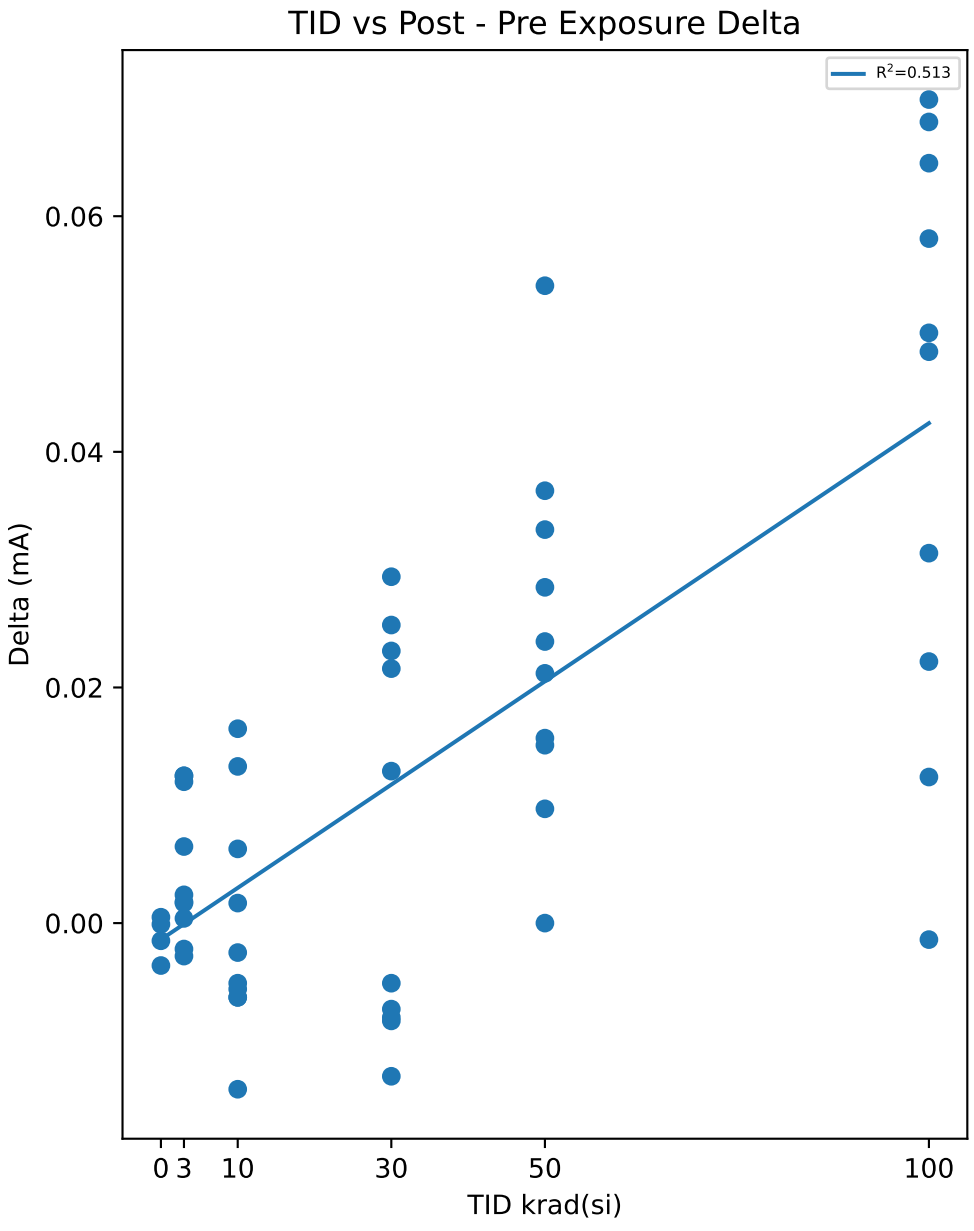
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	9.2974	9.312	0.0146
2	3	HDR BIAS	9.3518	9.3578	0.006
3	3	HDR BIAS	9.3133	9.3331	0.0198
4	3	HDR BIAS	9.4476	9.4532	0.0056
5	3	HDR BIAS	9.4013	9.4424	0.0411
6	3	HDR UNBIAS	9.118	9.1394	0.0214
7	3	HDR UNBIAS	9.5643	9.5728	0.0085
8	3	HDR UNBIAS	9.3173	9.3528	0.0355
9	3	HDR UNBIAS	9.444	9.484	0.04
10	3	HDR UNBIAS	9.3394	9.34	0.0006
11	10	HDR BIAS	9.3422	9.3426	0.0004
12	10	HDR BIAS	9.3441	9.3818	0.0377
13	10	HDR BIAS	9.3071	9.3344	0.0273
14	10	HDR BIAS	9.4319	9.4396	0.0077
15	10	HDR BIAS	9.6231	9.6292	0.0061
16	10	HDR UNBIAS	9.2246	9.2471	0.0225
17	10	HDR UNBIAS	9.3212	9.4025	0.0813
18	10	HDR UNBIAS	9.0914	9.1309	0.0395
19	10	HDR UNBIAS	9.4634	9.4905	0.0271
20	10	HDR UNBIAS	9.103	9.1488	0.0458
31	30	HDR BIAS	9.4371	9.5282	0.0911
32	30	HDR BIAS	9.3023	9.4213	0.119
33	30	HDR BIAS	9.027	9.1056	0.0786
34	30	HDR BIAS	9.347	9.3367	-0.0103
35	30	HDR BIAS	9.3724	9.4206	0.0482
36	30	HDR UNBIAS	9.5544	9.6309	0.0765
37	30	HDR UNBIAS	9.1689	9.2633	0.0944
38	30	HDR UNBIAS	9.3171	9.4291	0.112
39	30	HDR UNBIAS	9.2698	9.3434	0.0736
40	30	HDR UNBIAS	9.4415	9.5123	0.0708
41	50	HDR BIAS	9.4984	9.6013	0.1029
42	50	HDR BIAS	9.4258	9.5516	0.1258
43	50	HDR BIAS	9.363	9.4582	0.0952
44	50	HDR BIAS	9.1573	9.3305	0.1732
45	50	HDR BIAS	9.1277	9.2903	0.1626
46	50	HDR UNBIAS	9.2631	9.3786	0.1155
47	50	HDR UNBIAS	9.3989	9.5741	0.1752
48	50	HDR UNBIAS	9.2529	9.3577	0.1048
49	50	HDR UNBIAS	9.376	9.487	0.111
50	50	HDR UNBIAS	9.424	9.5524	0.1284
51	100	HDR BIAS	9.2954	9.5623	0.2669
52	100	HDR BIAS	9.329	9.5243	0.1953
53	100	HDR BIAS	9.3118	9.5335	0.2217
54	100	HDR BIAS	9.2615	9.4248	0.1633
55	100	HDR BIAS	9.4083	9.6293	0.221
56	100	HDR UNBIAS	9.5617	9.7141	0.1524
57	100	HDR UNBIAS	9.1974	9.4637	0.2663
58	100	HDR UNBIAS	9.4622	9.6222	0.16
59	100	HDR UNBIAS	9.3265	9.6211	0.2946
60	100	HDR UNBIAS	9.4868	9.7402	0.2534
91	0	CORRELATION	9.1856	9.1929	0.0073
92	0	CORRELATION	9.2391	9.2355	-0.0036
93	0	CORRELATION	9.4447	9.4269	-0.0178
94	0	CORRELATION	9.4332	9.4494	0.0162

Test Statistics (mA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.1856	9.3256	9.4447	0.13272	9.1929	9.3262	9.4494	0.13078	-0.0178	0.000525	0.0162	0.014656
3	9.118	9.3594	9.5643	0.11792	9.1394	9.3788	9.5728	0.11774	0.0006	0.01931	0.0411	0.014996
10	9.0914	9.3252	9.6231	0.16137	9.1309	9.3547	9.6292	0.15226	0.0004	0.02954	0.0813	0.023677
30	9.027	9.3238	9.5544	0.14843	9.1056	9.3991	9.6309	0.14782	-0.0103	0.07539	0.119	0.036466
50	9.1277	9.3287	9.4984	0.12269	9.2903	9.4582	9.6013	0.11219	0.0952	0.12946	0.1752	0.030076
100	9.1974	9.3641	9.5617	0.11259	9.4248	9.5835	9.7402	0.10144	0.1524	0.21949	0.2946	0.050575

Device Test: 14.8 IDD_DIS|STANDBY CURRENT/IN/14/14/0/0/5/500kHz//@IDD_DIS





Test Results (Upper Limit = 8.0 (mA))

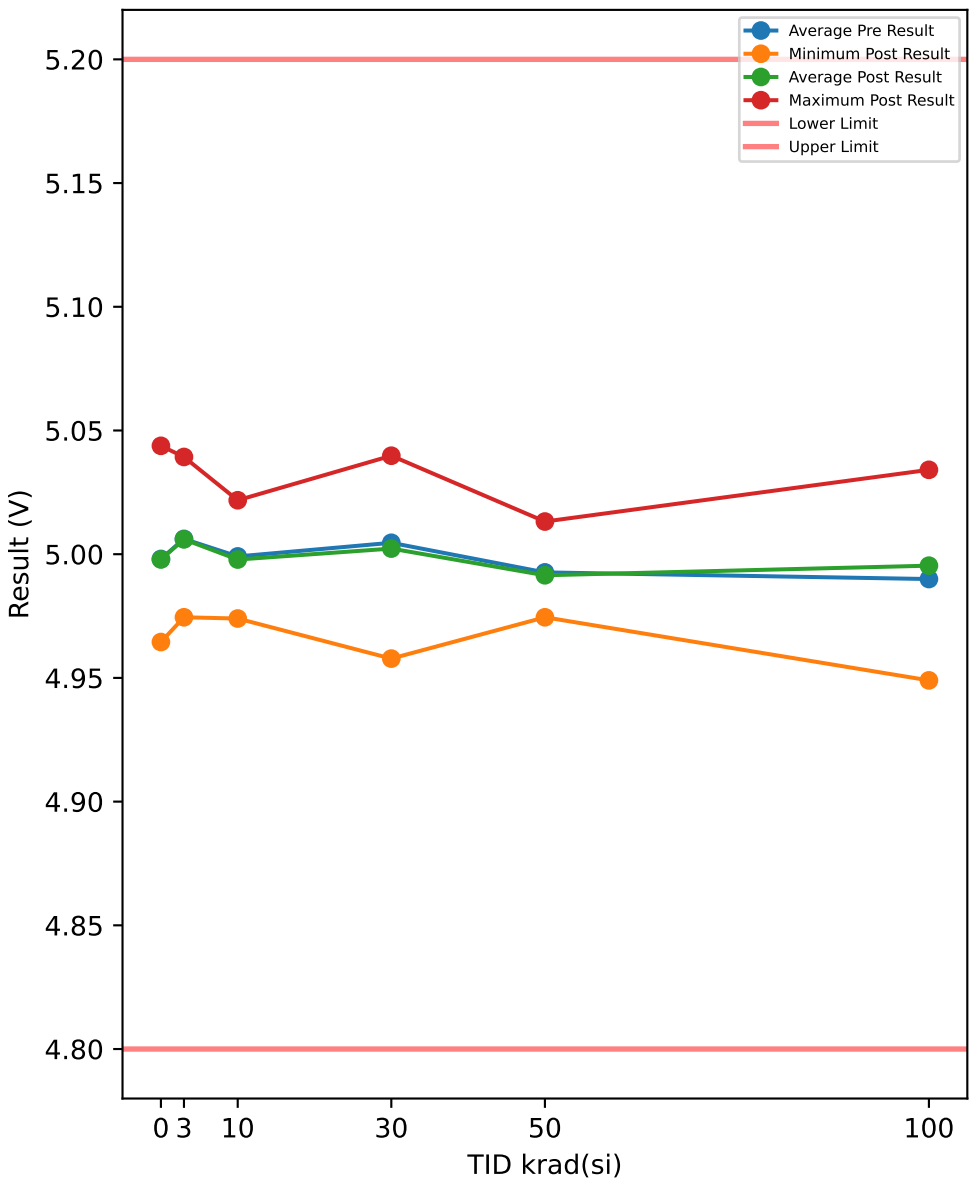
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	4.7648	4.7773	0.0125
2	3	HDR BIAS	4.7774	4.7752	-0.0022
3	3	HDR BIAS	4.7843	4.7861	0.0018
4	3	HDR BIAS	4.8182	4.8154	-0.0028
5	3	HDR BIAS	4.835	4.847	0.012
6	3	HDR UNBIAS	4.6844	4.6909	0.0065
7	3	HDR UNBIAS	4.8686	4.8703	0.0017
8	3	HDR UNBIAS	4.8042	4.8066	0.0024
9	3	HDR UNBIAS	4.7662	4.7787	0.0125
10	3	HDR UNBIAS	4.7378	4.7382	0.0004
11	10	HDR BIAS	4.7948	4.7807	-0.0141
12	10	HDR BIAS	4.7627	4.7564	-0.0063
13	10	HDR BIAS	4.8232	4.8365	0.0133
14	10	HDR BIAS	4.8095	4.8032	-0.0063
15	10	HDR BIAS	4.877	4.8719	-0.0051
16	10	HDR UNBIAS	4.7204	4.7179	-0.0025
17	10	HDR UNBIAS	4.7532	4.7697	0.0165
18	10	HDR UNBIAS	4.6931	4.6948	0.0017
19	10	HDR UNBIAS	4.8332	4.8395	0.0063
20	10	HDR UNBIAS	4.7323	4.7267	-0.0056
31	30	HDR BIAS	4.8192	4.8445	0.0253
32	30	HDR BIAS	4.7883	4.8012	0.0129
33	30	HDR BIAS	4.6976	4.727	0.0294
34	30	HDR BIAS	4.7983	4.7853	-0.013
35	30	HDR BIAS	4.8447	4.8364	-0.0083
36	30	HDR UNBIAS	4.878	4.8707	-0.0073
37	30	HDR UNBIAS	4.731	4.7526	0.0216
38	30	HDR UNBIAS	4.8043	4.8274	0.0231
39	30	HDR UNBIAS	4.7523	4.7472	-0.0051
40	30	HDR UNBIAS	4.8517	4.8437	-0.008
41	50	HDR BIAS	4.8279	4.843	0.0151
42	50	HDR BIAS	4.7753	4.812	0.0367
43	50	HDR BIAS	4.7523	4.7735	0.0212
44	50	HDR BIAS	4.7152	4.7309	0.0157
45	50	HDR BIAS	4.7105	4.7646	0.0541
46	50	HDR UNBIAS	4.7755	4.804	0.0285
47	50	HDR UNBIAS	4.8125	4.8459	0.0334
48	50	HDR UNBIAS	4.7526	4.7623	0.0097
49	50	HDR UNBIAS	4.7917	4.7917	0
50	50	HDR UNBIAS	4.8544	4.8783	0.0239
51	100	HDR BIAS	4.7802	4.8482	0.068
52	100	HDR BIAS	4.8228	4.8542	0.0314
53	100	HDR BIAS	4.7934	4.8435	0.0501
54	100	HDR BIAS	4.7662	4.7884	0.0222
55	100	HDR BIAS	4.8731	4.9376	0.0645
56	100	HDR UNBIAS	4.8232	4.8218	-0.0014
57	100	HDR UNBIAS	4.8111	4.8596	0.0485
58	100	HDR UNBIAS	4.8478	4.8602	0.0124
59	100	HDR UNBIAS	4.8195	4.8776	0.0581
60	100	HDR UNBIAS	4.8176	4.8875	0.0699
91	0	CORRELATION	4.7092	4.7091	-0.0001
92	0	CORRELATION	4.7845	4.785	0.0005
93	0	CORRELATION	4.8268	4.8253	-0.0015
94	0	CORRELATION	4.7904	4.7868	-0.0036

Test Statistics (mA)

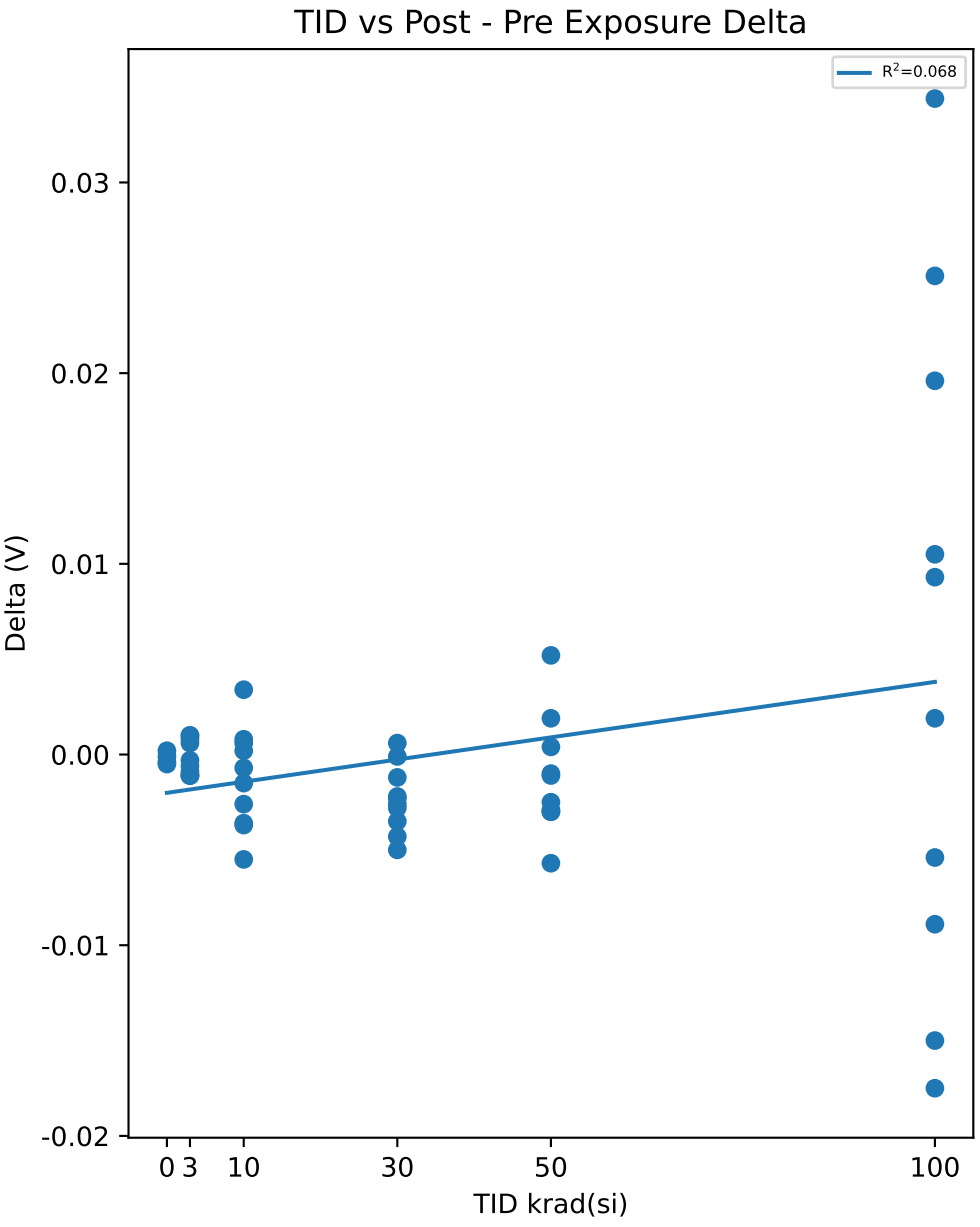
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.7092	4.7777	4.8268	0.049365	4.7091	4.7766	4.8253	0.048657	-0.0036	-0.001175	0.0005	0.0018209
3	4.6844	4.7841	4.8686	0.051768	4.6909	4.7886	4.8703	0.051234	-0.0028	0.00448	0.0125	0.0059887
10	4.6931	4.7799	4.877	0.05734	4.6948	4.7797	4.8719	0.058057	-0.0141	-0.00021	0.0165	0.0096211
30	4.6976	4.7965	4.878	0.056455	4.727	4.8036	4.8707	0.04878	-0.013	0.00706	0.0294	0.016845
50	4.7105	4.7768	4.8544	0.046559	4.7309	4.8006	4.8783	0.045293	0	0.02383	0.0541	0.015319
100	4.7662	4.8155	4.8731	0.031053	4.7884	4.8579	4.9376	0.039543	-0.0014	0.04237	0.0699	0.024923

Device Test: 15.15 VLDO|V_VLDO/VLDO/8/8/0/0/5/500kHz//@V_LDO_INT

TID vs Result Stats



TID vs Post - Pre Exposure Delta



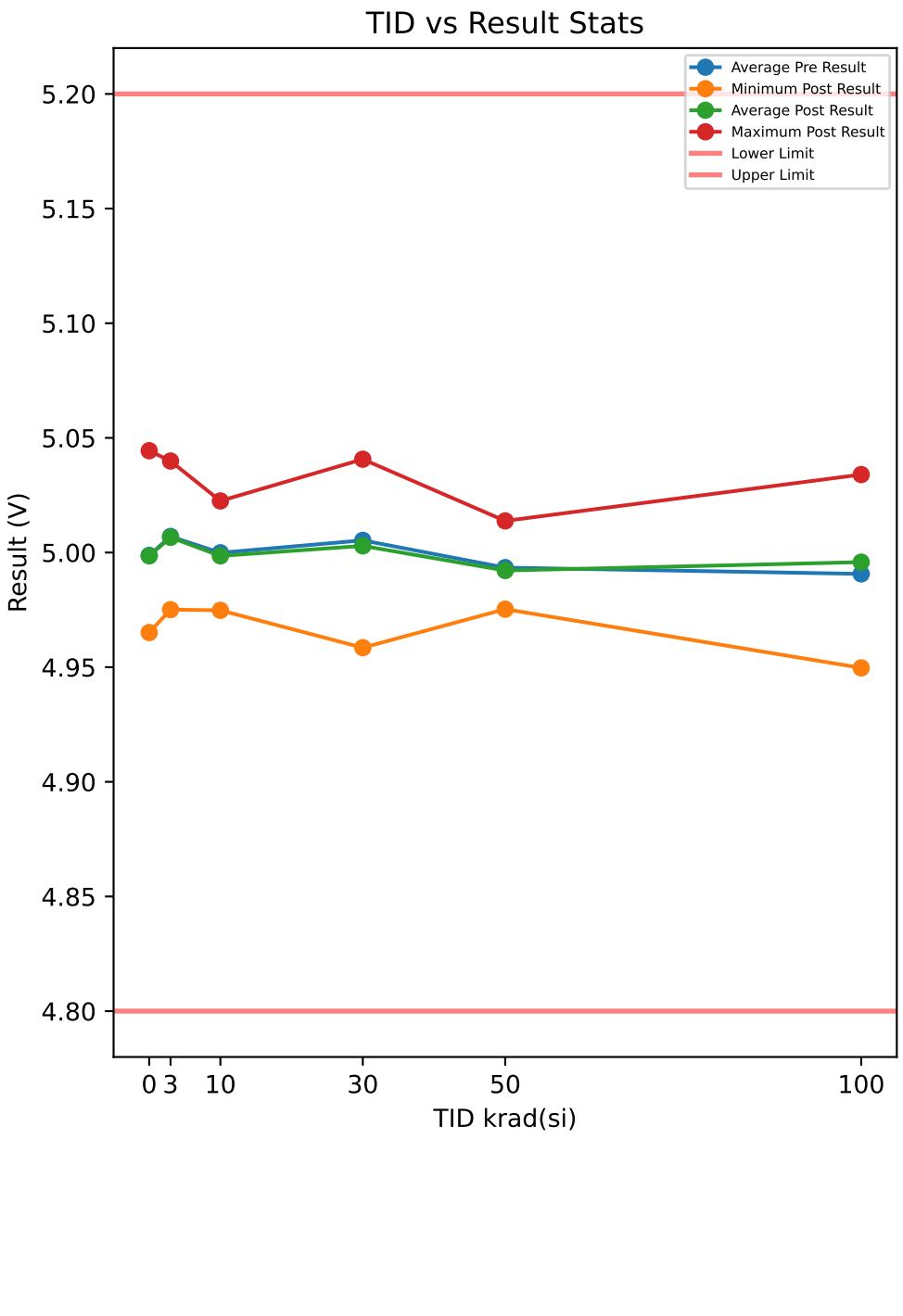
Test Results (Lower Limit = 4.8, Upper Limit = 5.2 (V))

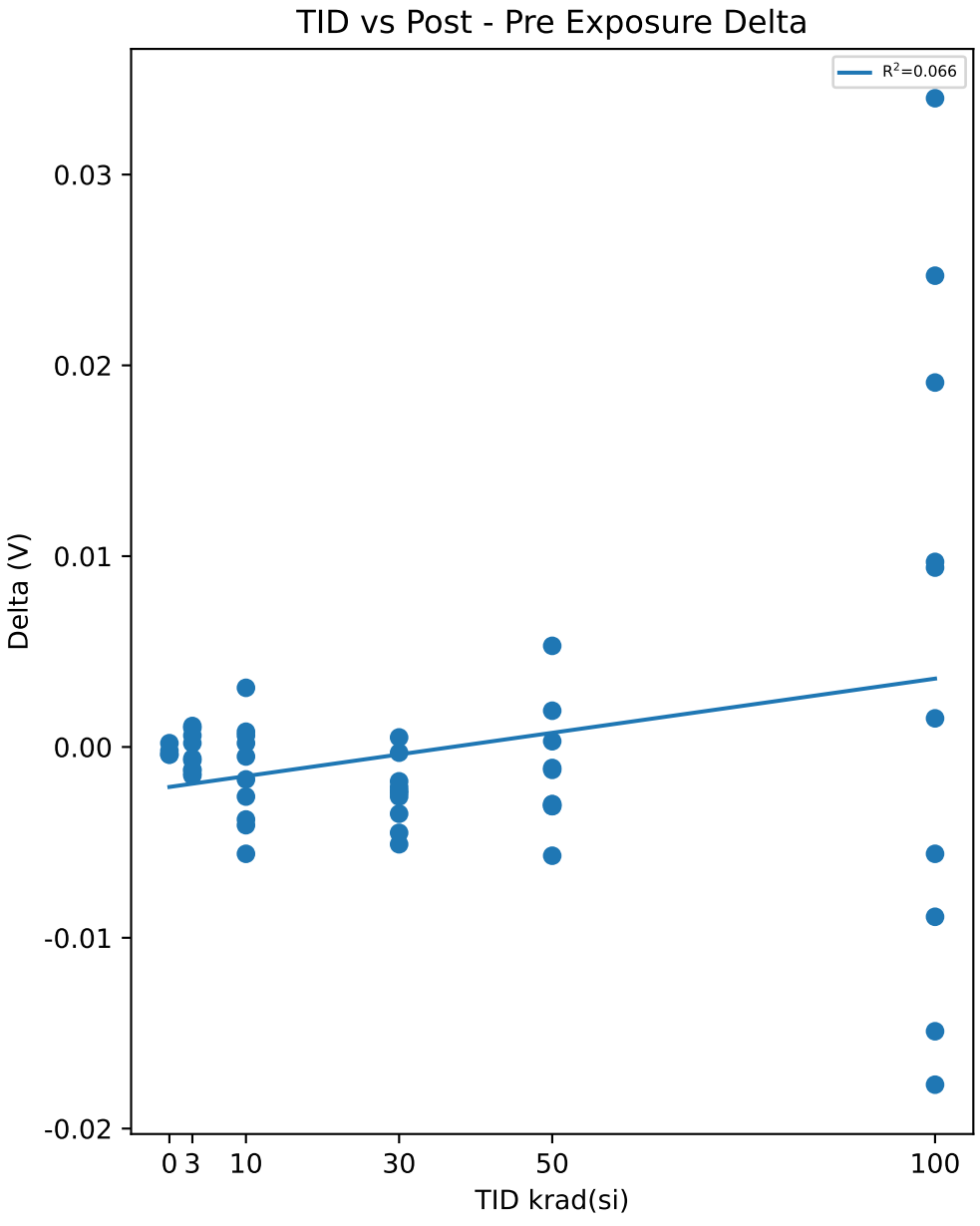
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5.0079	5.0076	-0.0003
2	3	HDR BIAS	5.0039	5.0049	0.001
3	3	HDR BIAS	5.0118	5.0126	0.0008
4	3	HDR BIAS	5.028	5.0286	0.0006
5	3	HDR BIAS	5.0233	5.0222	-0.0011
6	3	HDR UNBIAS	4.9814	4.9824	0.001
7	3	HDR UNBIAS	5.0024	5.0013	-0.0011
8	3	HDR UNBIAS	5.0404	5.0393	-0.0011
9	3	HDR UNBIAS	4.9873	4.9867	-0.0006
10	3	HDR UNBIAS	4.9754	4.9745	-0.0009
11	10	HDR BIAS	5.0184	5.0218	0.0034
12	10	HDR BIAS	4.9857	4.9802	-0.0055
13	10	HDR BIAS	5.0172	5.018	0.0008
14	10	HDR BIAS	4.9734	4.974	0.0006
15	10	HDR BIAS	5.0154	5.0156	0.0002
16	10	HDR UNBIAS	4.9914	4.9888	-0.0026
17	10	HDR UNBIAS	5.0178	5.0141	-0.0037
18	10	HDR UNBIAS	4.9854	4.9839	-0.0015
19	10	HDR UNBIAS	4.9751	4.9744	-0.0007
20	10	HDR UNBIAS	5.0112	5.0076	-0.0036
31	30	HDR BIAS	5.0424	5.0398	-0.0026
32	30	HDR BIAS	4.9926	4.9883	-0.0043
33	30	HDR BIAS	5.035	5.0356	0.0006
34	30	HDR BIAS	5.0106	5.0084	-0.0022
35	30	HDR BIAS	4.9613	4.9578	-0.0035
36	30	HDR UNBIAS	4.9713	4.9701	-0.0012
37	30	HDR UNBIAS	5.0096	5.0095	-0.0001
38	30	HDR UNBIAS	5.0001	4.9978	-0.0023
39	30	HDR UNBIAS	5.0281	5.0253	-0.0028
40	30	HDR UNBIAS	4.9951	4.9901	-0.005
41	50	HDR BIAS	4.9803	4.9855	0.0052
42	50	HDR BIAS	4.9802	4.9745	-0.0057
43	50	HDR BIAS	4.987	4.984	-0.003
44	50	HDR BIAS	4.9865	4.9836	-0.0029
45	50	HDR BIAS	4.9967	4.9942	-0.0025
46	50	HDR UNBIAS	5.0027	5.0046	0.0019
47	50	HDR UNBIAS	4.9824	4.9794	-0.003
48	50	HDR UNBIAS	4.9889	4.9878	-0.0011
49	50	HDR UNBIAS	5.0142	5.0132	-0.001
50	50	HDR UNBIAS	5.0076	5.008	0.0004
51	100	HDR BIAS	4.9924	4.9835	-0.0089
52	100	HDR BIAS	4.964	4.949	-0.015
53	100	HDR BIAS	4.9888	4.9981	0.0093
54	100	HDR BIAS	4.9823	5.0167	0.0344
55	100	HDR BIAS	4.9871	5.0122	0.0251
56	100	HDR UNBIAS	4.9576	4.9522	-0.0054
57	100	HDR UNBIAS	5.0105	5.0124	0.0019
58	100	HDR UNBIAS	4.9959	4.9784	-0.0175
59	100	HDR UNBIAS	4.9974	5.017	0.0196
60	100	HDR UNBIAS	5.0236	5.0341	0.0105
91	0	CORRELATION	4.9649	4.9645	-0.0004
92	0	CORRELATION	5.0439	5.0438	-0.0001
93	0	CORRELATION	5.0052	5.0054	0.0002
94	0	CORRELATION	4.9783	4.9778	-0.0005

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9649	4.9981	5.0439	0.034844	4.9645	4.9979	5.0438	0.035036	-0.0005	-0.0002	0.0002	0.00031623
3	4.9754	5.0062	5.0404	0.020849	4.9745	5.006	5.0393	0.020745	-0.0011	-0.00017	0.001	0.000919
10	4.9734	4.9991	5.0184	0.018634	4.974	4.9978	5.0218	0.019323	-0.0055	-0.00126	0.0034	0.0026484
30	4.9613	5.0046	5.0424	0.026256	4.9578	5.0023	5.0398	0.026906	-0.005	-0.00234	0.0006	0.0017488
50	4.9802	4.9926	5.0142	0.012026	4.9745	4.9915	5.0132	0.01302	-0.0057	-0.00117	0.0052	0.0030638
100	4.9576	4.99	5.0236	0.019549	4.949	4.9954	5.0341	0.028764	-0.0175	0.0054	0.0344	0.017467

Device Test: 15.16 VLDO|V_VLDO/VLDO/12/12/0/0/5/500kHz//@V_LDO_INT





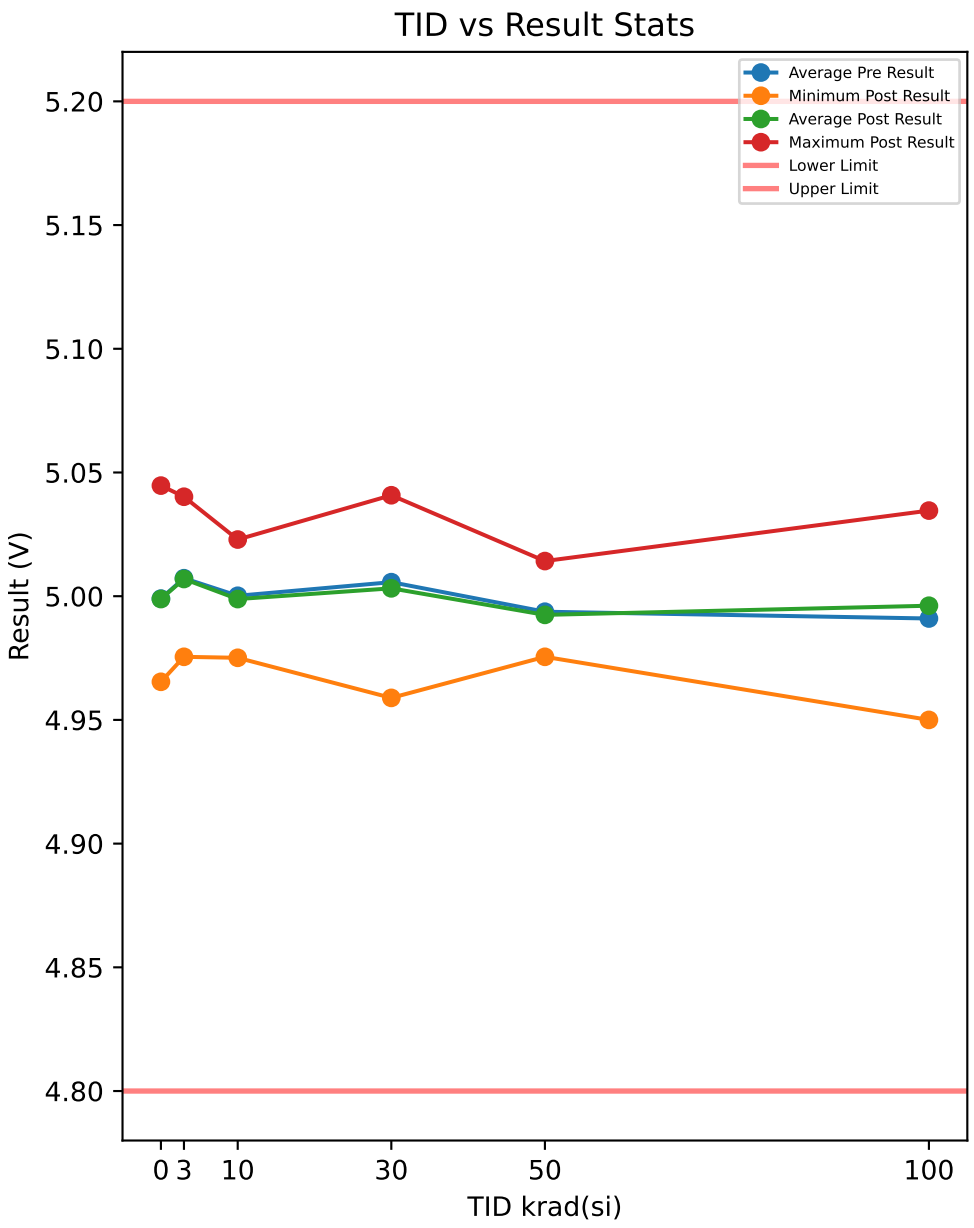
Test Results (Lower Limit = 4.8, Upper Limit = 5.2 (V))

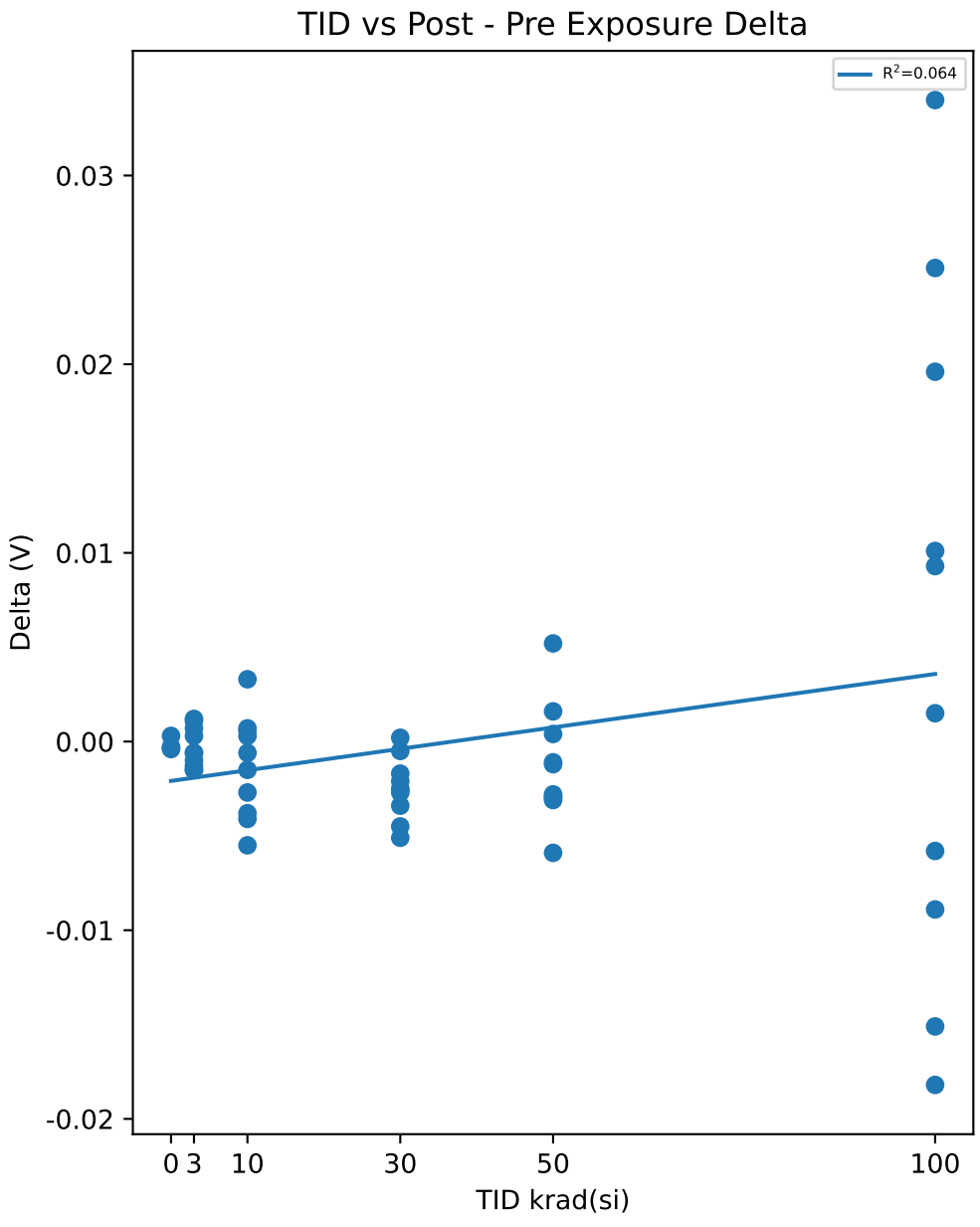
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5.0087	5.0081	-0.0006
2	3	HDR BIAS	5.0045	5.0056	0.0011
3	3	HDR BIAS	5.0126	5.0132	0.0006
4	3	HDR BIAS	5.0289	5.0291	0.0002
5	3	HDR BIAS	5.0242	5.0228	-0.0014
6	3	HDR UNBIAS	4.9822	4.9832	0.001
7	3	HDR UNBIAS	5.0032	5.002	-0.0012
8	3	HDR UNBIAS	5.0414	5.0399	-0.0015
9	3	HDR UNBIAS	4.988	4.9873	-0.0007
10	3	HDR UNBIAS	4.9763	4.9751	-0.0012
11	10	HDR BIAS	5.0194	5.0225	0.0031
12	10	HDR BIAS	4.9864	4.9808	-0.0056
13	10	HDR BIAS	5.018	5.0186	0.0006
14	10	HDR BIAS	4.974	4.9748	0.0008
15	10	HDR BIAS	5.0162	5.0164	0.0002
16	10	HDR UNBIAS	4.9921	4.9895	-0.0026
17	10	HDR UNBIAS	5.0187	5.0146	-0.0041
18	10	HDR UNBIAS	4.9862	4.9845	-0.0017
19	10	HDR UNBIAS	4.9758	4.9753	-0.0005
20	10	HDR UNBIAS	5.0121	5.0083	-0.0038
31	30	HDR BIAS	5.0431	5.0407	-0.0024
32	30	HDR BIAS	4.9934	4.9889	-0.0045
33	30	HDR BIAS	5.0357	5.0362	0.0005
34	30	HDR BIAS	5.0112	5.0091	-0.0021
35	30	HDR BIAS	4.962	4.9585	-0.0035
36	30	HDR UNBIAS	4.9723	4.9705	-0.0018
37	30	HDR UNBIAS	5.0104	5.0101	-0.0003
38	30	HDR UNBIAS	5.0007	4.9984	-0.0023
39	30	HDR UNBIAS	5.0286	5.026	-0.0026
40	30	HDR UNBIAS	4.9957	4.9906	-0.0051
41	50	HDR BIAS	4.9809	4.9862	0.0053
42	50	HDR BIAS	4.981	4.9753	-0.0057
43	50	HDR BIAS	4.9877	4.9847	-0.003
44	50	HDR BIAS	4.9872	4.9841	-0.0031
45	50	HDR BIAS	4.9977	4.9947	-0.003
46	50	HDR UNBIAS	5.0035	5.0054	0.0019
47	50	HDR UNBIAS	4.9833	4.9802	-0.0031
48	50	HDR UNBIAS	4.9896	4.9884	-0.0012
49	50	HDR UNBIAS	5.0149	5.0138	-0.0011
50	50	HDR UNBIAS	5.0084	5.0087	0.0003
51	100	HDR BIAS	4.9932	4.9843	-0.0089
52	100	HDR BIAS	4.9646	4.9497	-0.0149
53	100	HDR BIAS	4.9893	4.9987	0.0094
54	100	HDR BIAS	4.9832	5.0172	0.034
55	100	HDR BIAS	4.9877	5.0124	0.0247
56	100	HDR UNBIAS	4.9584	4.9528	-0.0056
57	100	HDR UNBIAS	5.0113	5.0128	0.0015
58	100	HDR UNBIAS	4.9967	4.979	-0.0177
59	100	HDR UNBIAS	4.9981	5.0172	0.0191
60	100	HDR UNBIAS	5.0243	5.034	0.0097
91	0	CORRELATION	4.9655	4.9651	-0.0004
92	0	CORRELATION	5.0446	5.0444	-0.0002
93	0	CORRELATION	5.006	5.0062	0.0002
94	0	CORRELATION	4.9789	4.9785	-0.0004

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9655	4.9988	5.0446	0.034902	4.9651	4.9985	5.0444	0.035032	-0.0004	-0.0002	0.0002	0.00028284
3	4.9763	5.007	5.0414	0.020903	4.9751	5.0066	5.0399	0.020704	-0.0015	-0.00037	0.0011	0.00101
10	4.974	4.9999	5.0194	0.018733	4.9748	4.9985	5.0225	0.019281	-0.0056	-0.00136	0.0031	0.0026805
30	4.962	5.0053	5.0431	0.026195	4.9585	5.0029	5.0407	0.026978	-0.0051	-0.00241	0.0005	0.0017071
50	4.9809	4.9934	5.0149	0.012042	4.9753	4.9922	5.0138	0.013001	-0.0057	-0.00127	0.0053	0.0031273
100	4.9584	4.9907	5.0243	0.019556	4.9497	4.9958	5.034	0.028552	-0.0177	0.00513	0.034	0.017315

Device Test: 15.17 VLDO|V_VLDO/VLDO/14/14/0/0/5/500kHz//@V_LDO_INT





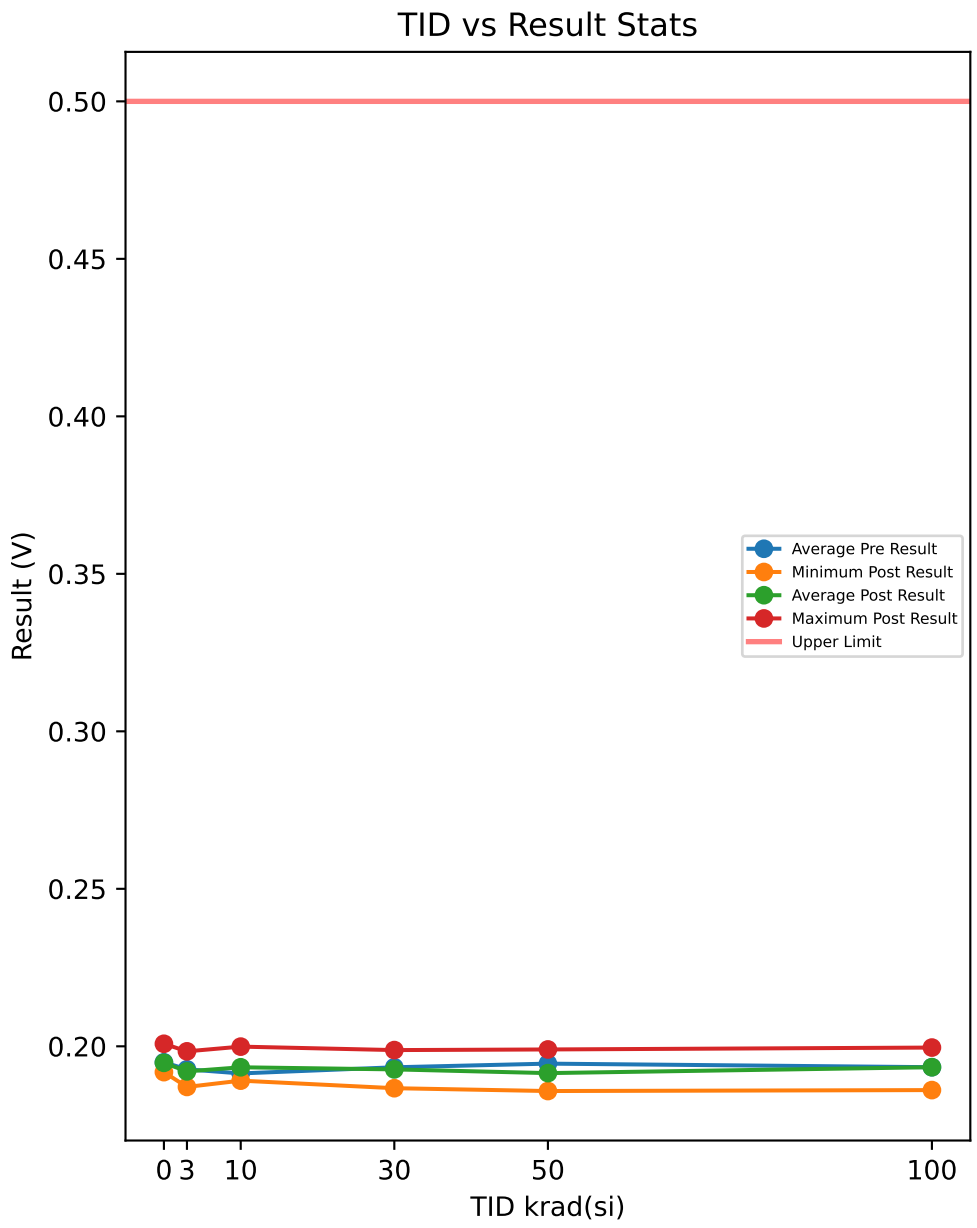
Test Results (Lower Limit = 4.8, Upper Limit = 5.2 (V))

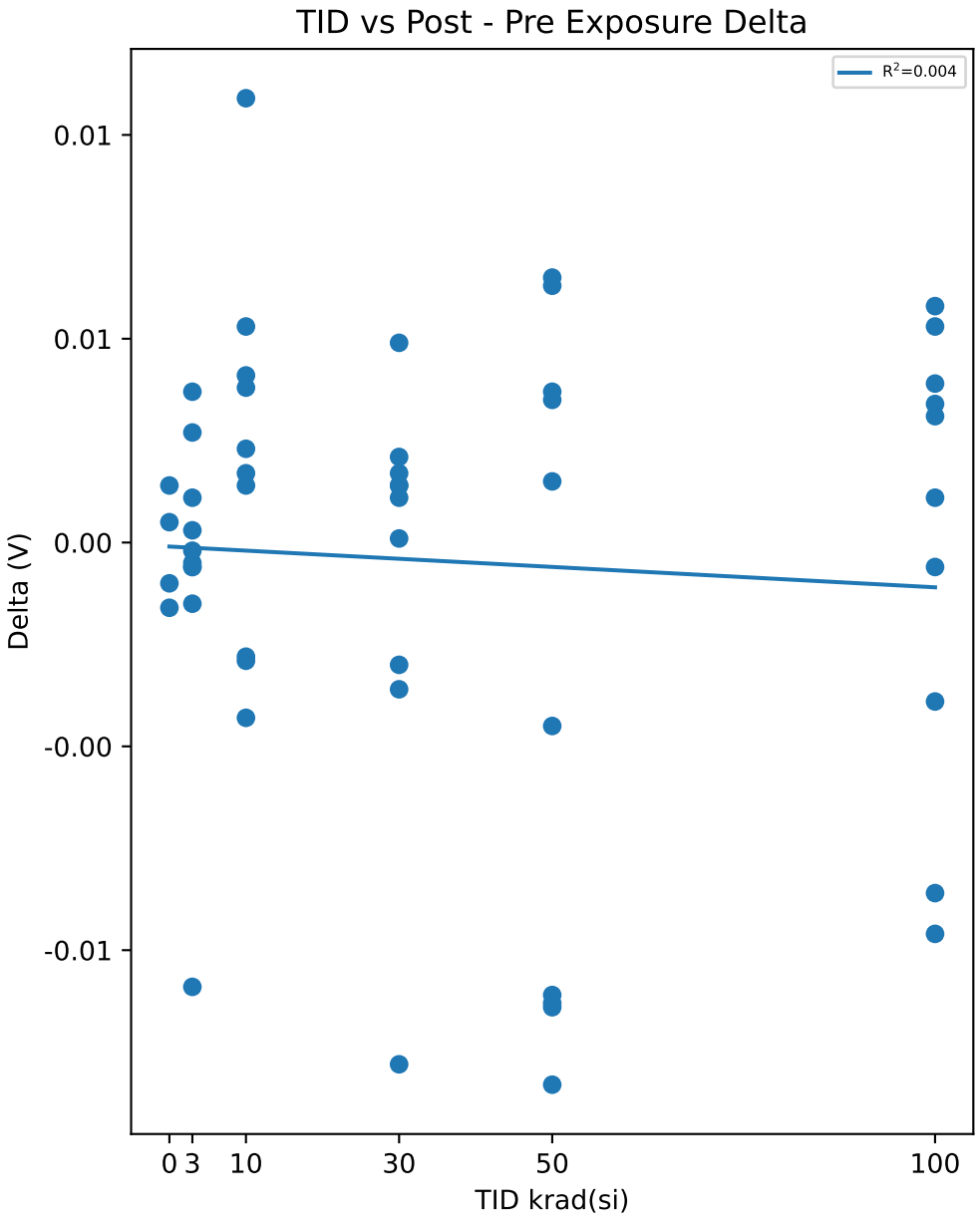
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5.009	5.0084	-0.0006
2	3	HDR BIAS	5.0048	5.006	0.0012
3	3	HDR BIAS	5.0129	5.0136	0.0007
4	3	HDR BIAS	5.0291	5.0294	0.0003
5	3	HDR BIAS	5.0245	5.023	-0.0015
6	3	HDR UNBIAS	4.9824	4.9835	0.0011
7	3	HDR UNBIAS	5.0036	5.0023	-0.0013
8	3	HDR UNBIAS	5.0417	5.0402	-0.0015
9	3	HDR UNBIAS	4.9882	4.9876	-0.0006
10	3	HDR UNBIAS	4.9765	4.9755	-0.001
11	10	HDR BIAS	5.0196	5.0229	0.0033
12	10	HDR BIAS	4.9866	4.9811	-0.0055
13	10	HDR BIAS	5.0182	5.0188	0.0006
14	10	HDR BIAS	4.9744	4.9751	0.0007
15	10	HDR BIAS	5.0165	5.0168	0.0003
16	10	HDR UNBIAS	4.9925	4.9898	-0.0027
17	10	HDR UNBIAS	5.019	5.0149	-0.0041
18	10	HDR UNBIAS	4.9865	4.985	-0.0015
19	10	HDR UNBIAS	4.9762	4.9756	-0.0006
20	10	HDR UNBIAS	5.0122	5.0084	-0.0038
31	30	HDR BIAS	5.0434	5.0408	-0.0026
32	30	HDR BIAS	4.9937	4.9892	-0.0045
33	30	HDR BIAS	5.0361	5.0363	0.0002
34	30	HDR BIAS	5.0116	5.0095	-0.0021
35	30	HDR BIAS	4.9623	4.9589	-0.0034
36	30	HDR UNBIAS	4.9726	4.9709	-0.0017
37	30	HDR UNBIAS	5.0108	5.0103	-0.0005
38	30	HDR UNBIAS	5.0012	4.9987	-0.0025
39	30	HDR UNBIAS	5.029	5.0263	-0.0027
40	30	HDR UNBIAS	4.996	4.9909	-0.0051
41	50	HDR BIAS	4.9812	4.9864	0.0052
42	50	HDR BIAS	4.9814	4.9755	-0.0059
43	50	HDR BIAS	4.9879	4.985	-0.0029
44	50	HDR BIAS	4.9875	4.9844	-0.0031
45	50	HDR BIAS	4.9979	4.9951	-0.0028
46	50	HDR UNBIAS	5.004	5.0056	0.0016
47	50	HDR UNBIAS	4.9835	4.9805	-0.003
48	50	HDR UNBIAS	4.9899	4.9887	-0.0012
49	50	HDR UNBIAS	5.0153	5.0142	-0.0011
50	50	HDR UNBIAS	5.0087	5.0091	0.0004
51	100	HDR BIAS	4.9934	4.9845	-0.0089
52	100	HDR BIAS	4.9651	4.95	-0.0151
53	100	HDR BIAS	4.9897	4.999	0.0093
54	100	HDR BIAS	4.9834	5.0174	0.034
55	100	HDR BIAS	4.9881	5.0132	0.0251
56	100	HDR UNBIAS	4.9588	4.953	-0.0058
57	100	HDR UNBIAS	5.0115	5.013	0.0015
58	100	HDR UNBIAS	4.997	4.9788	-0.0182
59	100	HDR UNBIAS	4.9984	5.018	0.0196
60	100	HDR UNBIAS	5.0245	5.0346	0.0101
91	0	CORRELATION	4.9657	4.9654	-0.0003
92	0	CORRELATION	5.045	5.0447	-0.0003
93	0	CORRELATION	5.0062	5.0065	0.0003
94	0	CORRELATION	4.9792	4.9788	-0.0004

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9657	4.999	5.045	0.03497	4.9654	4.9989	5.0447	0.035032	-0.0004	-0.000175	0.0003	0.00032016
3	4.9765	5.0073	5.0417	0.020929	4.9755	5.0069	5.0402	0.020681	-0.0015	-0.00032	0.0012	0.0010602
10	4.9744	5.0002	5.0196	0.01867	4.9751	4.9988	5.0229	0.019267	-0.0055	-0.00133	0.0033	0.0026986
30	4.9623	5.0057	5.0434	0.026218	4.9589	5.0032	5.0408	0.026887	-0.0051	-0.00249	0.0002	0.0016231
50	4.9812	4.9937	5.0153	0.01208	4.9755	4.9924	5.0142	0.013044	-0.0059	-0.00128	0.0052	0.0030857
100	4.9588	4.991	5.0245	0.019478	4.95	4.9962	5.0346	0.02871	-0.0182	0.00516	0.034	0.017533

Device Test: 15.19 VLDO|VDO_VLDO/VLDO/8/8/0/0/5/500kHz//@V_LDO_DO_INT





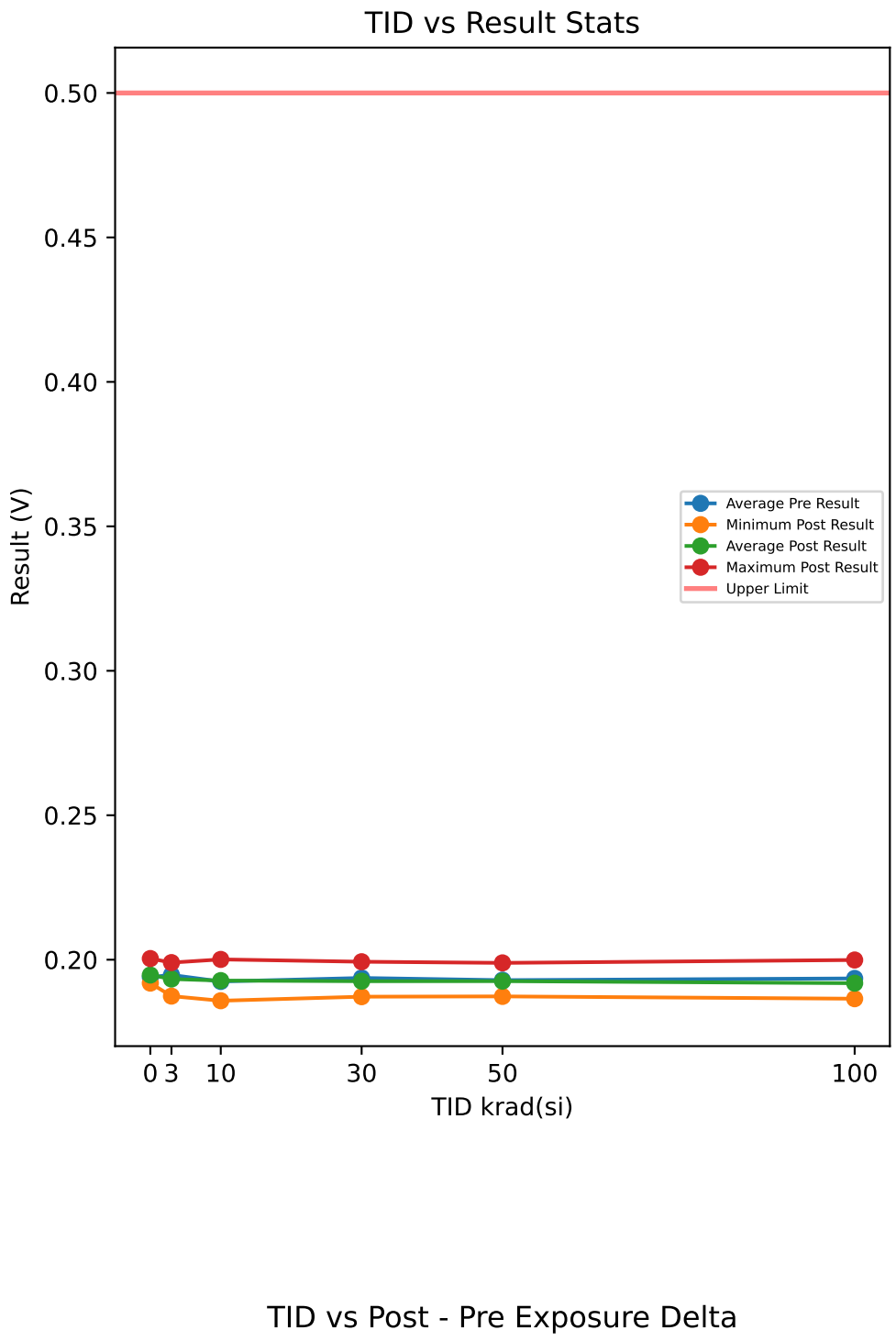
Test Results (Upper Limit = 0.5 (V))

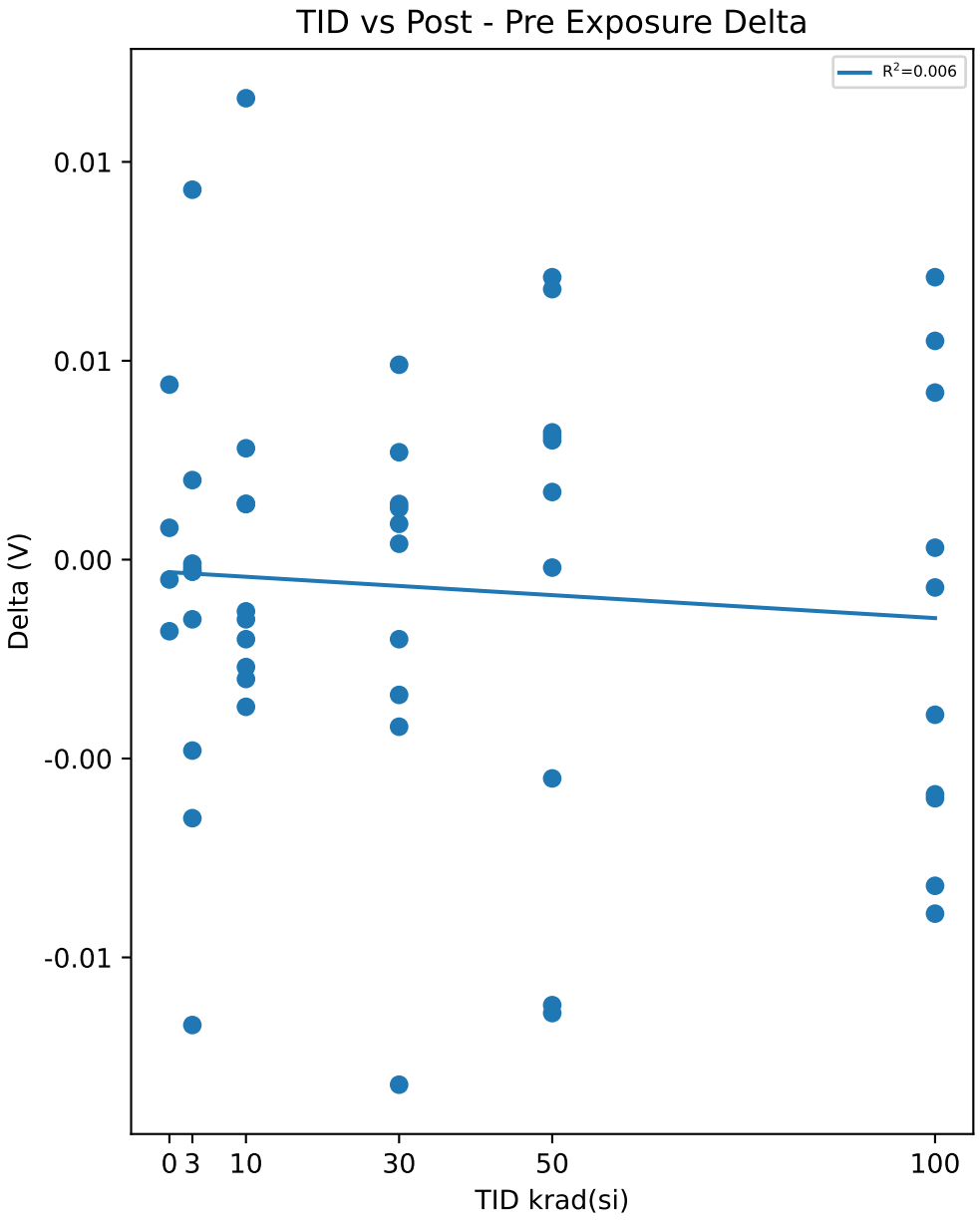
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.1929	0.1923	-0.0006
2	3	HDR BIAS	0.1888	0.1915	0.0027
3	3	HDR BIAS	0.198	0.1871	-0.0109
4	3	HDR BIAS	0.199	0.1984	-0.0006
5	3	HDR BIAS	0.1937	0.1932	-0.0005
6	3	HDR UNBIAS	0.1913	0.195	0.0037
7	3	HDR UNBIAS	0.1893	0.1891	-0.0002
8	3	HDR UNBIAS	0.1988	0.1973	-0.0015
9	3	HDR UNBIAS	0.1864	0.1875	0.0011
10	3	HDR UNBIAS	0.1887	0.189	0.0003
11	10	HDR BIAS	0.1904	0.1957	0.0053
12	10	HDR BIAS	0.1978	0.1935	-0.0043
13	10	HDR BIAS	0.188	0.1894	0.0014
14	10	HDR BIAS	0.1877	0.1918	0.0041
15	10	HDR BIAS	0.1882	0.192	0.0038
16	10	HDR UNBIAS	0.1919	0.1891	-0.0028
17	10	HDR UNBIAS	0.1934	0.1905	-0.0029
18	10	HDR UNBIAS	0.1941	0.1964	0.0023
19	10	HDR UNBIAS	0.1934	0.1951	0.0017
20	10	HDR UNBIAS	0.189	0.1999	0.0109
31	30	HDR BIAS	0.1987	0.1988	0.0001
32	30	HDR BIAS	0.1909	0.1879	-0.003
33	30	HDR BIAS	0.1912	0.1961	0.0049
34	30	HDR BIAS	0.1995	0.1867	-0.0128
35	30	HDR BIAS	0.1895	0.1909	0.0014
36	30	HDR UNBIAS	0.187	0.1881	0.0011
37	30	HDR UNBIAS	0.1952	0.1966	0.0014
38	30	HDR UNBIAS	0.1885	0.1902	0.0017
39	30	HDR UNBIAS	0.1955	0.1976	0.0021
40	30	HDR UNBIAS	0.1974	0.1938	-0.0036
41	50	HDR BIAS	0.1928	0.1883	-0.0045
42	50	HDR BIAS	0.1979	0.1865	-0.0114
43	50	HDR BIAS	0.1912	0.1947	0.0035
44	50	HDR BIAS	0.1991	0.1858	-0.0133
45	50	HDR BIAS	0.1951	0.1988	0.0037
46	50	HDR UNBIAS	0.1896	0.1959	0.0063
47	50	HDR UNBIAS	0.1986	0.1873	-0.0113
48	50	HDR UNBIAS	0.1985	0.1874	-0.0111
49	50	HDR UNBIAS	0.1897	0.1912	0.0015
50	50	HDR UNBIAS	0.1925	0.199	0.0065
51	100	HDR BIAS	0.1929	0.196	0.0031
52	100	HDR BIAS	0.1947	0.1861	-0.0086
53	100	HDR BIAS	0.1885	0.1924	0.0039
54	100	HDR BIAS	0.1959	0.1993	0.0034
55	100	HDR BIAS	0.1894	0.1952	0.0058
56	100	HDR UNBIAS	0.1885	0.1879	-0.0006
57	100	HDR UNBIAS	0.1952	0.1913	-0.0039
58	100	HDR UNBIAS	0.1973	0.1877	-0.0096
59	100	HDR UNBIAS	0.197	0.1981	0.0011
60	100	HDR UNBIAS	0.1943	0.1996	0.0053
91	0	CORRELATION	0.1928	0.1918	-0.001
92	0	CORRELATION	0.1994	0.2008	0.0014
93	0	CORRELATION	0.1926	0.1931	0.0005
94	0	CORRELATION	0.1949	0.1933	-0.0016

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1926	0.19492	0.1994	0.0031595	0.1918	0.19475	0.2008	0.0040878	-0.0016	-0.000175	0.0014	0.001372
3	0.1864	0.19269	0.199	0.0046001	0.1871	0.19204	0.1984	0.0039649	-0.0109	-0.00065	0.0037	0.0039458
10	0.1877	0.19139	0.1978	0.0033124	0.1891	0.19334	0.1999	0.0034452	-0.0043	0.00195	0.0109	0.0045339
30	0.187	0.19334	0.1995	0.0044744	0.1867	0.19267	0.1988	0.0044582	-0.0128	-0.00067	0.0049	0.0049189
50	0.1896	0.1945	0.1991	0.0038111	0.1858	0.19149	0.199	0.0051791	-0.0133	-0.00301	0.0065	0.0081481
100	0.1885	0.19337	0.1973	0.0034062	0.1861	0.19336	0.1996	0.0050196	-0.0096	-1e-05	0.0058	0.0055878

Device Test: 15.20 VLDO|VDO_VLDO/VLDO/12/12/0/0/5/500kHz//@V_LDO_DO_INT





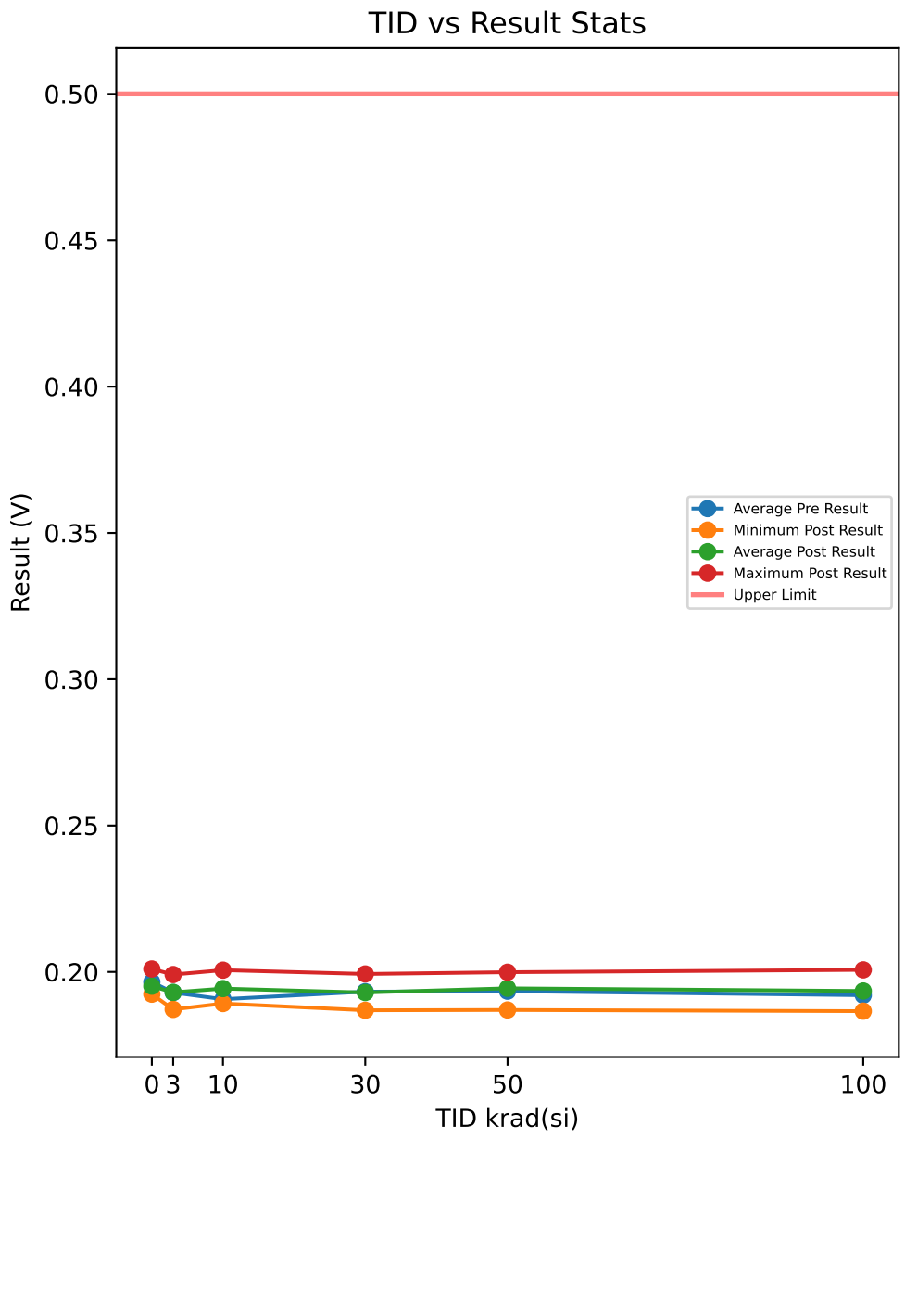
Test Results (Upper Limit = 0.5 (V))

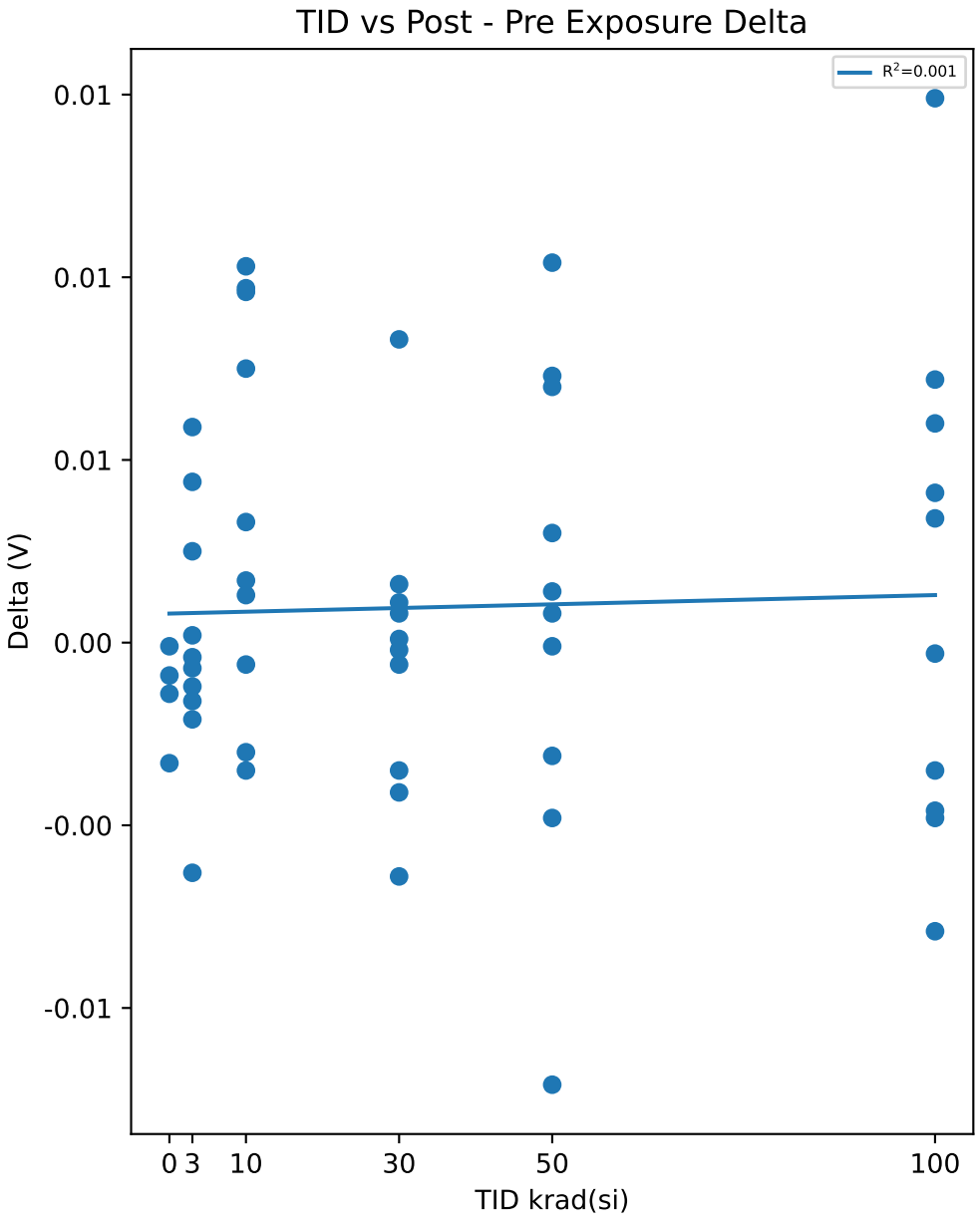
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.1933	0.1918	-0.0015
2	3	HDR BIAS	0.1887	0.1907	0.002
3	3	HDR BIAS	0.1991	0.1874	-0.0117
4	3	HDR BIAS	0.1989	0.1987	-0.0002
5	3	HDR BIAS	0.194	0.1937	-0.0003
6	3	HDR UNBIAS	0.1897	0.199	0.0093
7	3	HDR UNBIAS	0.1989	0.1941	-0.0048
8	3	HDR UNBIAS	0.1981	0.1978	-0.0003
9	3	HDR UNBIAS	0.1979	0.1914	-0.0065
10	3	HDR UNBIAS	0.1887	0.1886	-0.0001
11	10	HDR BIAS	0.1891	0.1878	-0.0013
12	10	HDR BIAS	0.1878	0.1858	-0.002
13	10	HDR BIAS	0.1886	0.19	0.0014
14	10	HDR BIAS	0.1883	0.1911	0.0028
15	10	HDR BIAS	0.2011	0.1974	-0.0037
16	10	HDR UNBIAS	0.1923	0.1893	-0.003
17	10	HDR UNBIAS	0.1966	0.1939	-0.0027
18	10	HDR UNBIAS	0.1991	0.1976	-0.0015
19	10	HDR UNBIAS	0.1933	0.1947	0.0014
20	10	HDR UNBIAS	0.1885	0.2001	0.0116
31	30	HDR BIAS	0.1989	0.1993	0.0004
32	30	HDR BIAS	0.1904	0.1884	-0.002
33	30	HDR BIAS	0.1914	0.1963	0.0049
34	30	HDR BIAS	0.2004	0.1872	-0.0132
35	30	HDR BIAS	0.1895	0.1908	0.0013
36	30	HDR UNBIAS	0.1876	0.1885	0.0009
37	30	HDR UNBIAS	0.187	0.1884	0.0014
38	30	HDR UNBIAS	0.1992	0.195	-0.0042
39	30	HDR UNBIAS	0.1951	0.1978	0.0027
40	30	HDR UNBIAS	0.1973	0.1939	-0.0034
41	50	HDR BIAS	0.1901	0.1932	0.0031
42	50	HDR BIAS	0.1906	0.1904	-0.0002
43	50	HDR BIAS	0.1918	0.1948	0.003
44	50	HDR BIAS	0.1977	0.1922	-0.0055
45	50	HDR BIAS	0.187	0.1887	0.0017
46	50	HDR UNBIAS	0.1892	0.1963	0.0071
47	50	HDR UNBIAS	0.1985	0.1873	-0.0112
48	50	HDR UNBIAS	0.199	0.1876	-0.0114
49	50	HDR UNBIAS	0.1896	0.1964	0.0068
50	50	HDR UNBIAS	0.1957	0.1989	0.0032
51	100	HDR BIAS	0.1939	0.1879	-0.006
52	100	HDR BIAS	0.1947	0.1865	-0.0082
53	100	HDR BIAS	0.1882	0.1924	0.0042
54	100	HDR BIAS	0.1954	0.1895	-0.0059
55	100	HDR BIAS	0.1894	0.1965	0.0071
56	100	HDR UNBIAS	0.1888	0.1881	-0.0007
57	100	HDR UNBIAS	0.1953	0.1914	-0.0039
58	100	HDR UNBIAS	0.1973	0.1884	-0.0089
59	100	HDR UNBIAS	0.1978	0.1981	0.0003
60	100	HDR UNBIAS	0.1944	0.1999	0.0055
91	0	CORRELATION	0.1924	0.1919	-0.0005
92	0	CORRELATION	0.1996	0.2004	0.0008
93	0	CORRELATION	0.1944	0.1926	-0.0018
94	0	CORRELATION	0.1895	0.1939	0.0044

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1895	0.19398	0.1996	0.0042555	0.1919	0.1947	0.2004	0.0038893	-0.0018	0.000725	0.0044	0.00267
3	0.1887	0.19473	0.1991	0.0044207	0.1874	0.19332	0.199	0.0041125	-0.0117	-0.00141	0.0093	0.0055304
10	0.1878	0.19247	0.2011	0.004916	0.1858	0.19277	0.2001	0.0047056	-0.0037	0.0003	0.0116	0.0045134
30	0.187	0.19368	0.2004	0.0050883	0.1872	0.19256	0.1993	0.0044415	-0.0132	-0.00112	0.0049	0.0050642
50	0.187	0.19292	0.199	0.0043865	0.1873	0.19258	0.1989	0.004032	-0.0114	-0.00034	0.0071	0.0067735
100	0.1882	0.19352	0.1978	0.0034829	0.1865	0.19187	0.1999	0.004734	-0.0089	-0.00165	0.0071	0.0058131

Device Test: 15.21 VLDO|VDO_VLDO/VLDO/14/14/0/0/5/500kHz//@V_LDO_DO_INT





Test Results (Upper Limit = 0.5 (V))

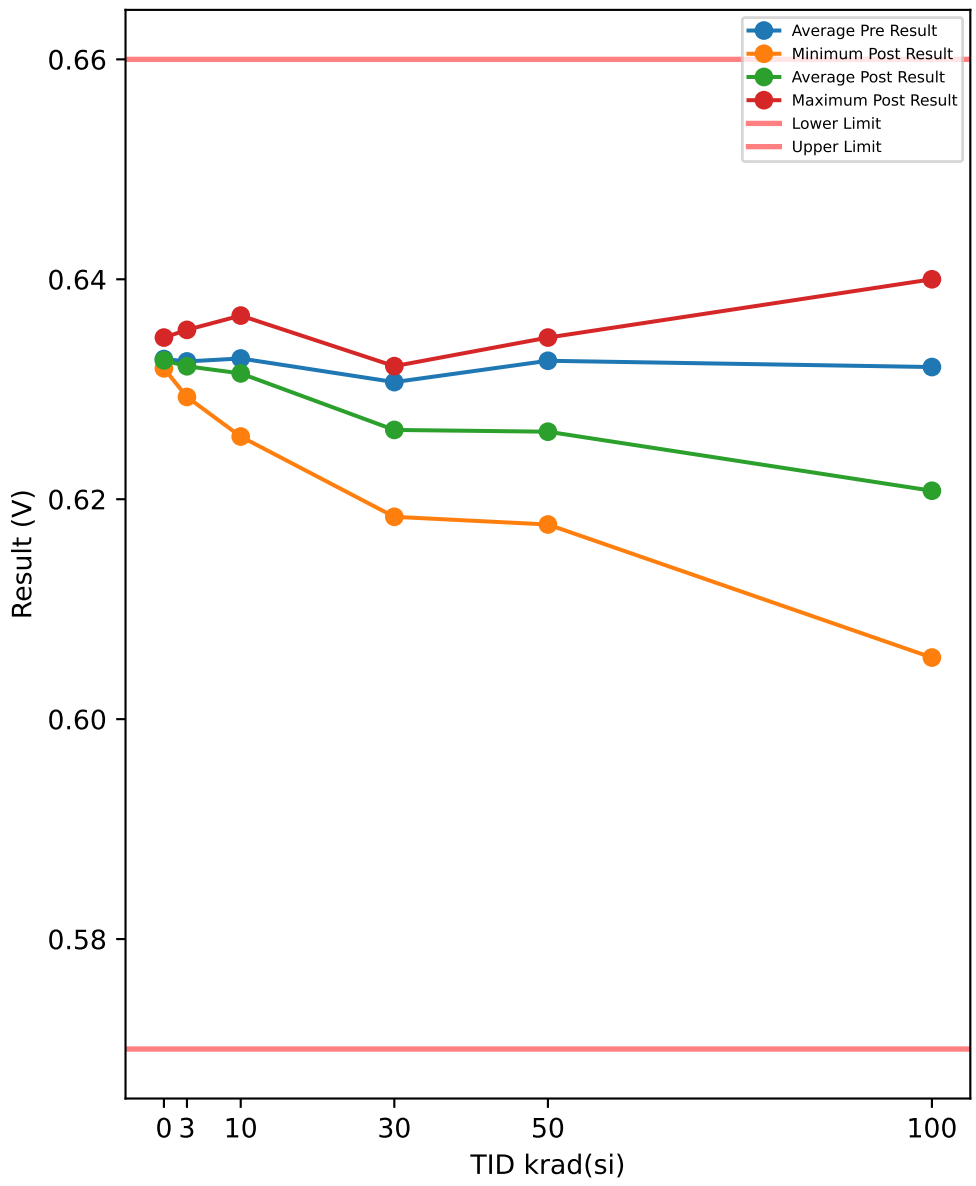
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.1933	0.1926	-0.0007
2	3	HDR BIAS	0.1891	0.1916	0.0025
3	3	HDR BIAS	0.1888	0.1872	-0.0016
4	3	HDR BIAS	0.1989	0.1991	0.0002
5	3	HDR BIAS	0.1947	0.1935	-0.0012
6	3	HDR UNBIAS	0.1943	0.188	-0.0063
7	3	HDR UNBIAS	0.1918	0.1977	0.0059
8	3	HDR UNBIAS	0.2001	0.198	-0.0021
9	3	HDR UNBIAS	0.1896	0.194	0.0044
10	3	HDR UNBIAS	0.1888	0.1884	-0.0004
11	10	HDR BIAS	0.1918	0.1912	-0.0006
12	10	HDR BIAS	0.1927	0.1892	-0.0035
13	10	HDR BIAS	0.1881	0.1898	0.0017
14	10	HDR BIAS	0.1883	0.1916	0.0033
15	10	HDR BIAS	0.1903	0.2006	0.0103
16	10	HDR UNBIAS	0.1925	0.1895	-0.003
17	10	HDR UNBIAS	0.1877	0.1973	0.0096
18	10	HDR UNBIAS	0.1911	0.1986	0.0075
19	10	HDR UNBIAS	0.1939	0.1952	0.0013
20	10	HDR UNBIAS	0.1903	0.2	0.0097
31	30	HDR BIAS	0.1992	0.1993	0.0001
32	30	HDR BIAS	0.1926	0.1885	-0.0041
33	30	HDR BIAS	0.1947	0.1963	0.0016
34	30	HDR BIAS	0.1871	0.1869	-0.0002
35	30	HDR BIAS	0.1901	0.1909	0.0008
36	30	HDR UNBIAS	0.1893	0.1887	-0.0006
37	30	HDR UNBIAS	0.1966	0.1902	-0.0064
38	30	HDR UNBIAS	0.1888	0.1971	0.0083
39	30	HDR UNBIAS	0.1965	0.1976	0.0011
40	30	HDR UNBIAS	0.1976	0.1941	-0.0035
41	50	HDR BIAS	0.1959	0.1967	0.0008
42	50	HDR BIAS	0.1986	0.1938	-0.0048
43	50	HDR BIAS	0.192	0.195	0.003
44	50	HDR BIAS	0.1867	0.1971	0.0104
45	50	HDR BIAS	0.1941	0.191	-0.0031
46	50	HDR UNBIAS	0.1895	0.1968	0.0073
47	50	HDR UNBIAS	0.1991	0.187	-0.0121
48	50	HDR UNBIAS	0.1875	0.1874	-0.0001
49	50	HDR UNBIAS	0.1922	0.1992	0.007
50	50	HDR UNBIAS	0.1985	0.1999	0.0014
51	100	HDR BIAS	0.195	0.1904	-0.0046
52	100	HDR BIAS	0.1945	0.1866	-0.0079
53	100	HDR BIAS	0.1886	0.1927	0.0041
54	100	HDR BIAS	0.1986	0.1951	-0.0035
55	100	HDR BIAS	0.1896	0.1968	0.0072
56	100	HDR UNBIAS	0.1887	0.1884	-0.0003
57	100	HDR UNBIAS	0.1969	0.1921	-0.0048
58	100	HDR UNBIAS	0.1868	0.1928	0.006
59	100	HDR UNBIAS	0.1858	0.2007	0.0149
60	100	HDR UNBIAS	0.1958	0.1992	0.0034
91	0	CORRELATION	0.1938	0.1924	-0.0014
92	0	CORRELATION	0.2011	0.201	-0.0001
93	0	CORRELATION	0.1963	0.193	-0.0033
94	0	CORRELATION	0.195	0.1941	-0.0009

Test Statistics (V)

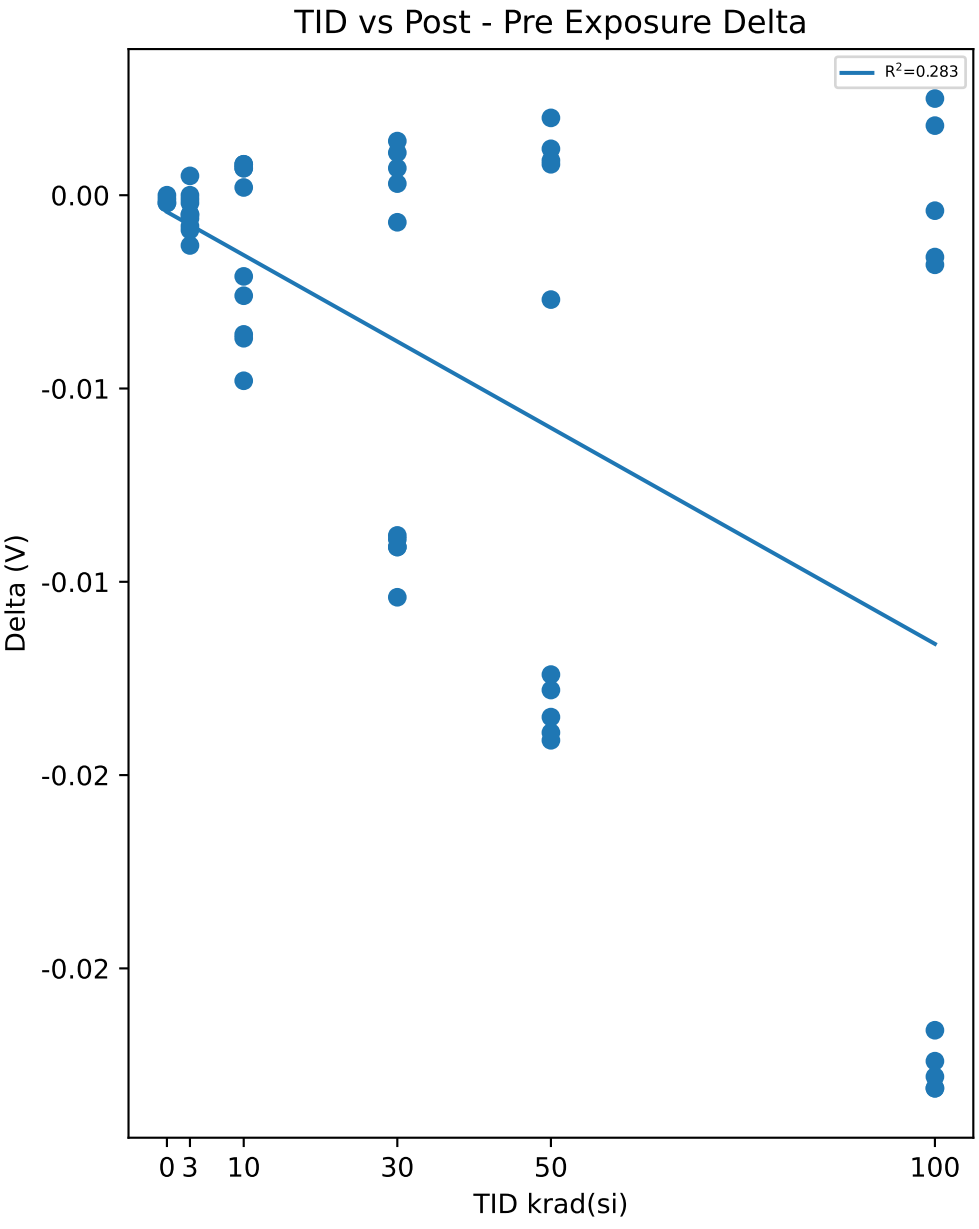
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1938	0.19655	0.2011	0.0032005	0.1924	0.19512	0.201	0.0039794	-0.0033	-0.001425	-0.0001	0.0013598
3	0.1888	0.19294	0.2001	0.0041277	0.1872	0.19301	0.1991	0.0043137	-0.0063	7e-05	0.0059	0.0034827
10	0.1877	0.19067	0.1939	0.0021261	0.1892	0.1943	0.2006	0.0045544	-0.0035	0.00363	0.0103	0.0053114
30	0.1871	0.19325	0.1992	0.0042398	0.1869	0.19296	0.1993	0.0044465	-0.0064	-0.00029	0.0083	0.0039845
50	0.1867	0.19341	0.1991	0.0046018	0.187	0.19439	0.1999	0.0045664	-0.0121	0.00098	0.0104	0.0065956
100	0.1858	0.19203	0.1986	0.004606	0.1866	0.19348	0.2007	0.0045227	-0.0079	0.00145	0.0149	0.0069614

Device Test: 16.10 LEVEL|EN_RISE/EN/14/14/0/0/5/500kHz//@V_EN_RISE

TID vs Result Stats



TID vs Post - Pre Exposure Delta



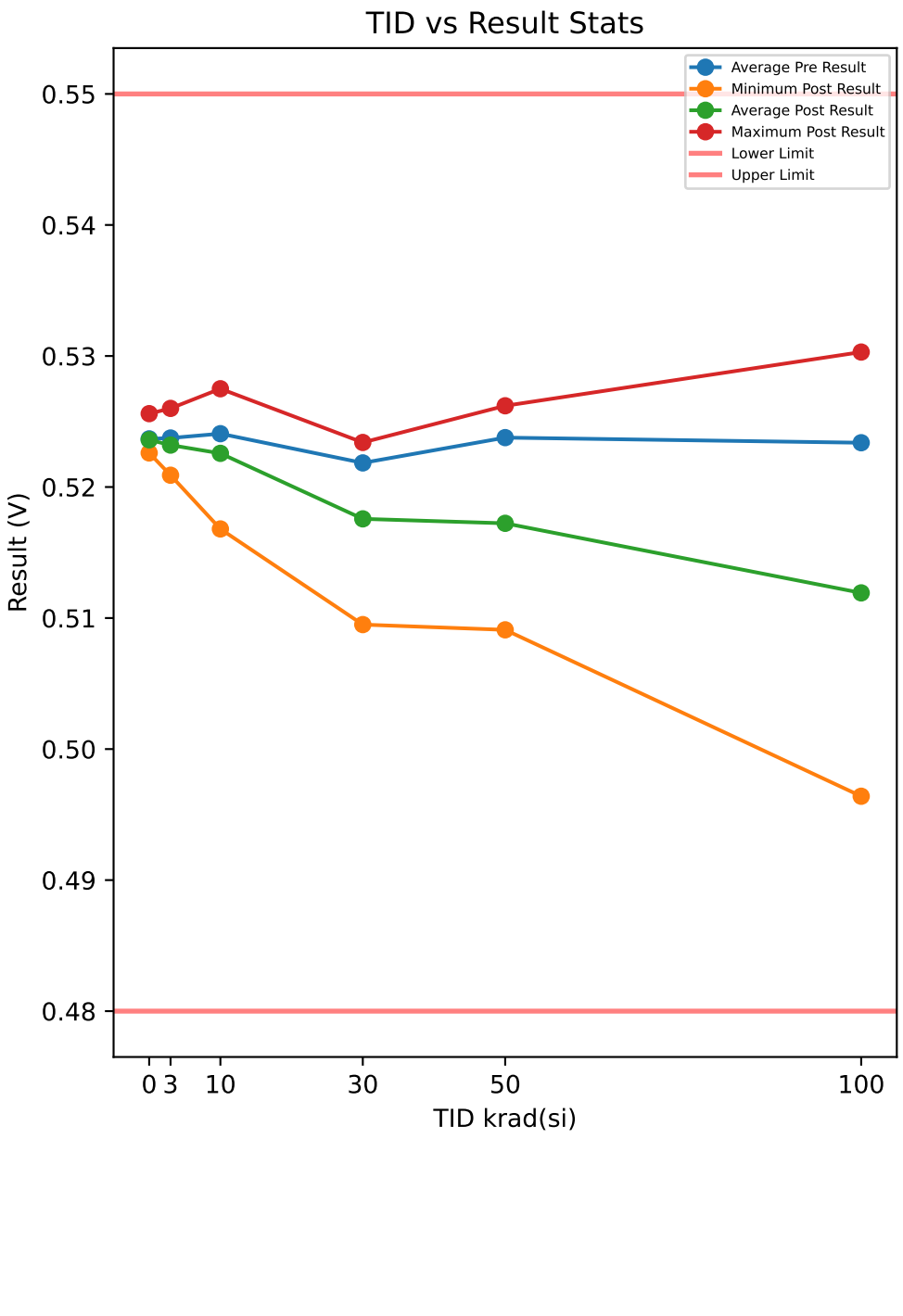
Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

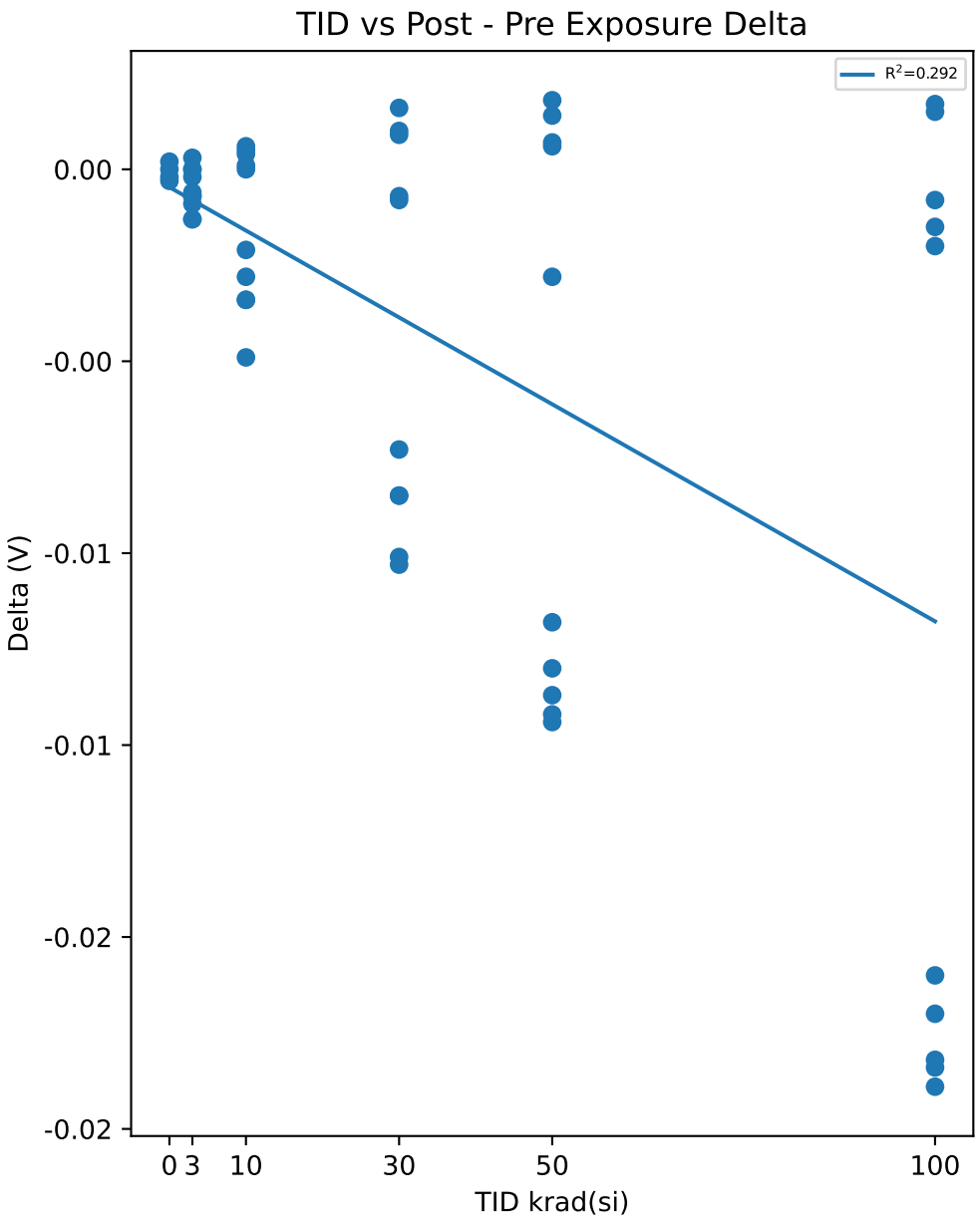
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.6339	0.6334	-0.0005
2	3	HDR BIAS	0.6306	0.6298	-0.0008
3	3	HDR BIAS	0.6321	0.6312	-0.0009
4	3	HDR BIAS	0.6311	0.6305	-0.0006
5	3	HDR BIAS	0.6306	0.6293	-0.0013
6	3	HDR UNBIAS	0.6314	0.6312	-0.0002
7	3	HDR UNBIAS	0.634	0.6335	-0.0005
8	3	HDR UNBIAS	0.6327	0.6327	0
9	3	HDR UNBIAS	0.6334	0.6339	0.0005
10	3	HDR UNBIAS	0.6355	0.6354	-0.0001
11	10	HDR BIAS	0.6338	0.6312	-0.0026
12	10	HDR BIAS	0.6327	0.6279	-0.0048
13	10	HDR BIAS	0.634	0.6319	-0.0021
14	10	HDR BIAS	0.6294	0.6257	-0.0037
15	10	HDR BIAS	0.6321	0.6285	-0.0036
16	10	HDR UNBIAS	0.6359	0.6367	0.0008
17	10	HDR UNBIAS	0.6325	0.6327	0.0002
18	10	HDR UNBIAS	0.6306	0.6313	0.0007
19	10	HDR UNBIAS	0.6345	0.6353	0.0008
20	10	HDR UNBIAS	0.6325	0.6332	0.0007
31	30	HDR BIAS	0.6323	0.6219	-0.0104
32	30	HDR BIAS	0.6327	0.6239	-0.0088
33	30	HDR BIAS	0.6273	0.6184	-0.0089
34	30	HDR BIAS	0.6308	0.6217	-0.0091
35	30	HDR BIAS	0.6317	0.6226	-0.0091
36	30	HDR UNBIAS	0.6328	0.6321	-0.0007
37	30	HDR UNBIAS	0.6285	0.6292	0.0007
38	30	HDR UNBIAS	0.6307	0.6318	0.0011
39	30	HDR UNBIAS	0.6286	0.63	0.0014
40	30	HDR UNBIAS	0.6311	0.6314	0.0003
41	50	HDR BIAS	0.6347	0.6206	-0.0141
42	50	HDR BIAS	0.6301	0.6177	-0.0124
43	50	HDR BIAS	0.6321	0.6186	-0.0135
44	50	HDR BIAS	0.6333	0.6194	-0.0139
45	50	HDR BIAS	0.6354	0.6226	-0.0128
46	50	HDR UNBIAS	0.6313	0.6333	0.002
47	50	HDR UNBIAS	0.6338	0.6347	0.0009
48	50	HDR UNBIAS	0.6328	0.634	0.0012
49	50	HDR UNBIAS	0.6313	0.6321	0.0008
50	50	HDR UNBIAS	0.6311	0.6284	-0.0027
51	100	HDR BIAS	0.6313	0.6085	-0.0228
52	100	HDR BIAS	0.6301	0.607	-0.0231
53	100	HDR BIAS	0.6328	0.6112	-0.0216
54	100	HDR BIAS	0.6287	0.6056	-0.0231
55	100	HDR BIAS	0.6341	0.6117	-0.0224
56	100	HDR UNBIAS	0.6338	0.6334	-0.0004
57	100	HDR UNBIAS	0.6274	0.6299	0.0025
58	100	HDR UNBIAS	0.632	0.6304	-0.0016
59	100	HDR UNBIAS	0.6318	0.63	-0.0018
60	100	HDR UNBIAS	0.6382	0.64	0.0018
91	0	CORRELATION	0.6321	0.6319	-0.0002
92	0	CORRELATION	0.6321	0.6319	-0.0002
93	0	CORRELATION	0.632	0.632	0
94	0	CORRELATION	0.6348	0.6347	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.632	0.63275	0.6348	0.0013675	0.6319	0.63262	0.6347	0.0013841	-0.0002	-0.000125	0	9.5743e-05
3	0.6306	0.63253	0.6355	0.0016533	0.6293	0.63209	0.6354	0.0019846	-0.0013	-0.00044	0.0005	0.00051251
10	0.6294	0.6328	0.6359	0.0018862	0.6257	0.63144	0.6367	0.003361	-0.0048	-0.00136	0.0008	0.0022277
30	0.6273	0.63065	0.6328	0.0019127	0.6184	0.6263	0.6321	0.0051032	-0.0104	-0.00435	0.0014	0.0052222
50	0.6301	0.63259	0.6354	0.001711	0.6177	0.62614	0.6347	0.0070213	-0.0141	-0.00645	0.002	0.0073788
100	0.6274	0.63202	0.6382	0.0030353	0.6056	0.62077	0.64	0.013059	-0.0231	-0.01125	0.0025	0.012043

Device Test: 16.11 LEVEL|EN_FALL/EN/14/14/0/0/5/500kHz//@V_EN_FALL





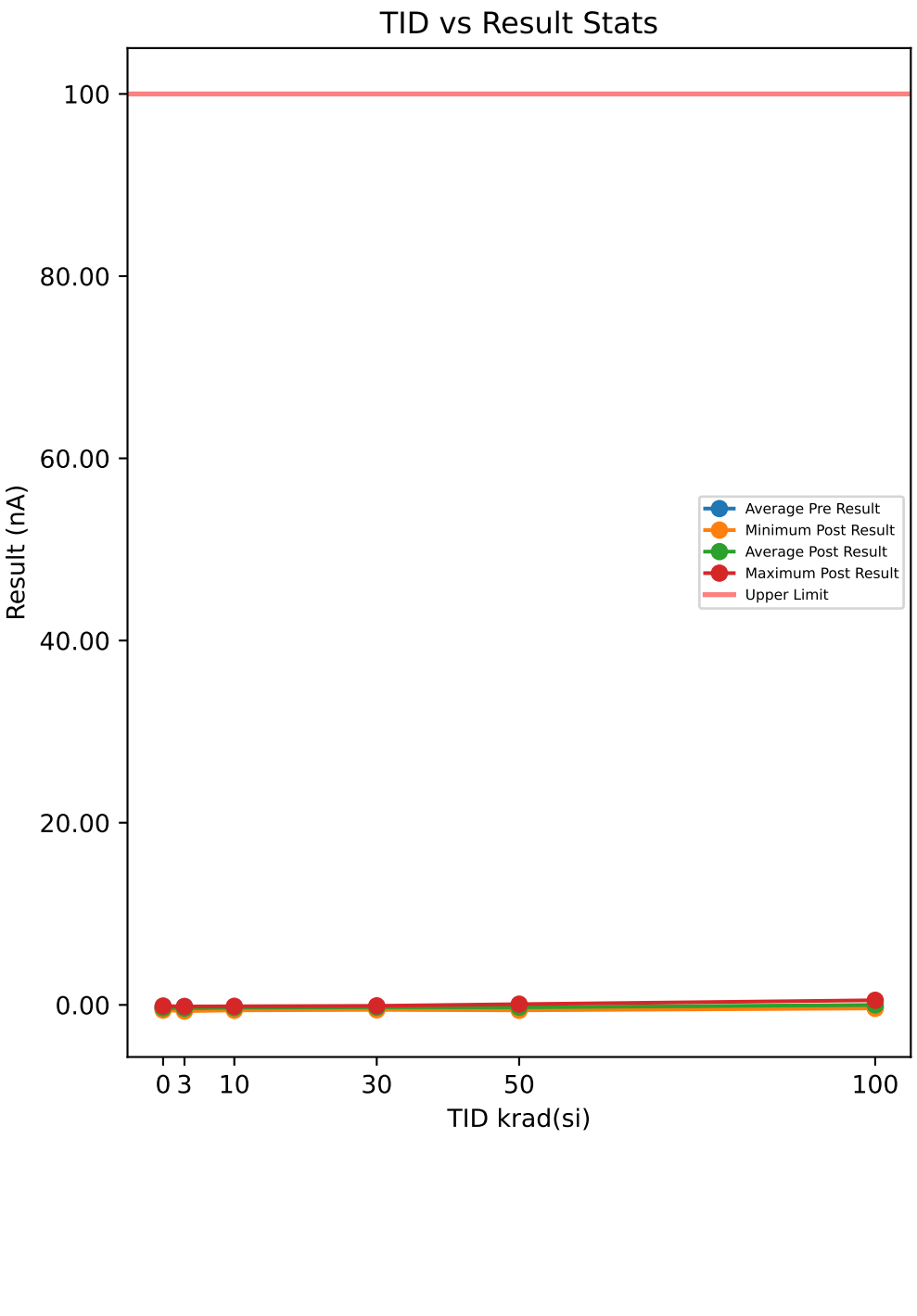
Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

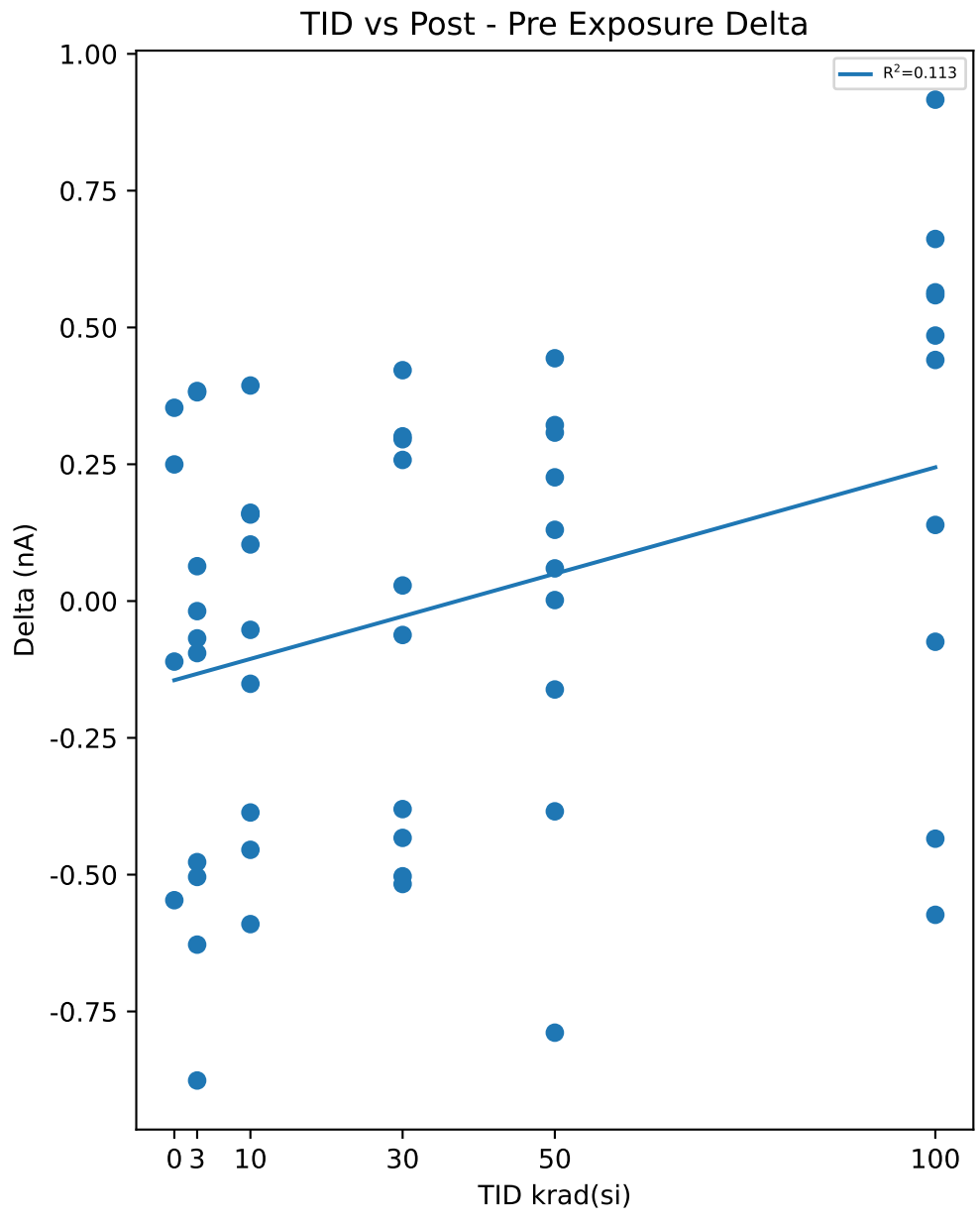
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.5247	0.5241	-0.0006
2	3	HDR BIAS	0.5222	0.5209	-0.0013
3	3	HDR BIAS	0.5229	0.5222	-0.0007
4	3	HDR BIAS	0.5228	0.5215	-0.0013
5	3	HDR BIAS	0.5227	0.522	-0.0007
6	3	HDR UNBIAS	0.522	0.522	0
7	3	HDR UNBIAS	0.5262	0.5253	-0.0009
8	3	HDR UNBIAS	0.5234	0.5234	0
9	3	HDR UNBIAS	0.5243	0.5246	0.0003
10	3	HDR UNBIAS	0.5262	0.526	-0.0002
11	10	HDR BIAS	0.5249	0.5221	-0.0028
12	10	HDR BIAS	0.525	0.5201	-0.0049
13	10	HDR BIAS	0.5249	0.5228	-0.0021
14	10	HDR BIAS	0.5202	0.5168	-0.0034
15	10	HDR BIAS	0.5235	0.5201	-0.0034
16	10	HDR UNBIAS	0.5269	0.5275	0.0006
17	10	HDR UNBIAS	0.5242	0.5243	0.0001
18	10	HDR UNBIAS	0.5216	0.522	0.0004
19	10	HDR UNBIAS	0.5262	0.5267	0.0005
20	10	HDR UNBIAS	0.5233	0.5233	0
31	30	HDR BIAS	0.5242	0.5139	-0.0103
32	30	HDR BIAS	0.5234	0.5161	-0.0073
33	30	HDR BIAS	0.518	0.5095	-0.0085
34	30	HDR BIAS	0.5213	0.5128	-0.0085
35	30	HDR BIAS	0.5234	0.5133	-0.0101
36	30	HDR UNBIAS	0.5241	0.5234	-0.0007
37	30	HDR UNBIAS	0.5194	0.5203	0.0009
38	30	HDR UNBIAS	0.5213	0.5229	0.0016
39	30	HDR UNBIAS	0.5197	0.5207	0.001
40	30	HDR UNBIAS	0.5236	0.5228	-0.0008
41	50	HDR BIAS	0.5263	0.5119	-0.0144
42	50	HDR BIAS	0.5209	0.5091	-0.0118
43	50	HDR BIAS	0.5236	0.5099	-0.0137
44	50	HDR BIAS	0.5241	0.5099	-0.0142
45	50	HDR BIAS	0.5263	0.5133	-0.013
46	50	HDR UNBIAS	0.5227	0.5245	0.0018
47	50	HDR UNBIAS	0.5248	0.5262	0.0014
48	50	HDR UNBIAS	0.5235	0.5241	0.0006
49	50	HDR UNBIAS	0.5228	0.5235	0.0007
50	50	HDR UNBIAS	0.5227	0.5199	-0.0028
51	100	HDR BIAS	0.5229	0.4997	-0.0232
52	100	HDR BIAS	0.5213	0.4979	-0.0234
53	100	HDR BIAS	0.5248	0.5028	-0.022
54	100	HDR BIAS	0.5203	0.4964	-0.0239
55	100	HDR BIAS	0.5248	0.5038	-0.021
56	100	HDR UNBIAS	0.5258	0.5243	-0.0015
57	100	HDR UNBIAS	0.5189	0.5206	0.0017
58	100	HDR UNBIAS	0.5229	0.5221	-0.0008
59	100	HDR UNBIAS	0.5233	0.5213	-0.002
60	100	HDR UNBIAS	0.5288	0.5303	0.0015
91	0	CORRELATION	0.5236	0.5233	-0.0003
92	0	CORRELATION	0.5228	0.5226	-0.0002
93	0	CORRELATION	0.5227	0.5229	0.0002
94	0	CORRELATION	0.5256	0.5256	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5227	0.52368	0.5256	0.0013451	0.5226	0.5236	0.5256	0.0013638	-0.0003	-7.5e-05	0.0002	0.00022174
3	0.522	0.52374	0.5262	0.0015465	0.5209	0.5232	0.526	0.0017359	-0.0013	-0.00054	0.0003	0.00055217
10	0.5202	0.52407	0.5269	0.0020221	0.5168	0.52257	0.5275	0.0031795	-0.0049	-0.0015	0.0006	0.0020456
30	0.518	0.52184	0.5242	0.0022237	0.5095	0.51757	0.5234	0.0050414	-0.0103	-0.00427	0.0016	0.0050449
50	0.5209	0.52377	0.5263	0.0016846	0.5091	0.51723	0.5262	0.0070266	-0.0144	-0.00654	0.0018	0.007387
100	0.5189	0.52338	0.5288	0.00286	0.4964	0.51192	0.5303	0.012884	-0.0239	-0.01146	0.0017	0.011929

Device Test: 16.13 LEAK|EN_LEAK/EN/14/14/0/0/5/500kHz//@I_EN_LEAK_1V





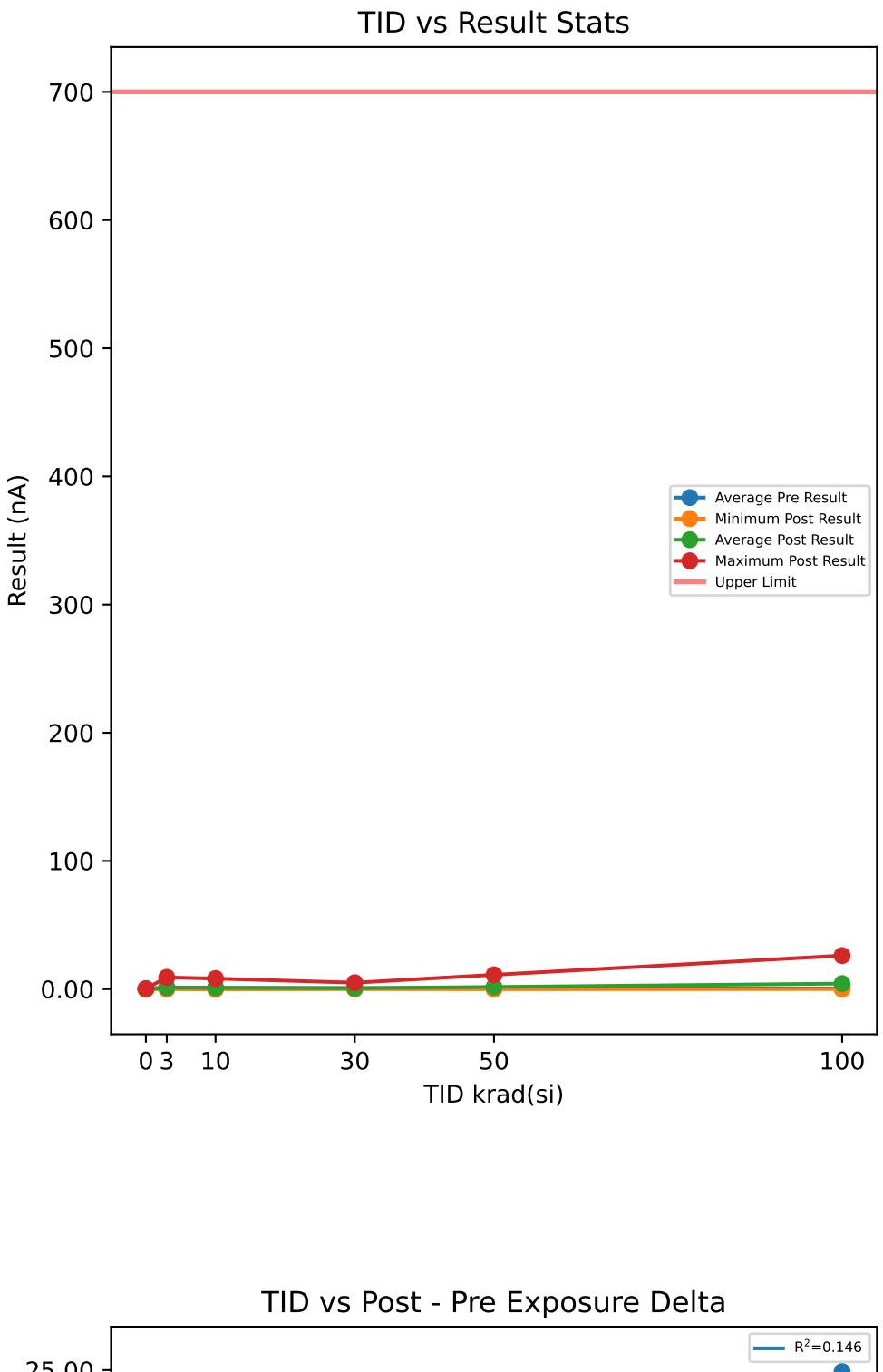
Test Results (Upper Limit = 100.0 (nA))

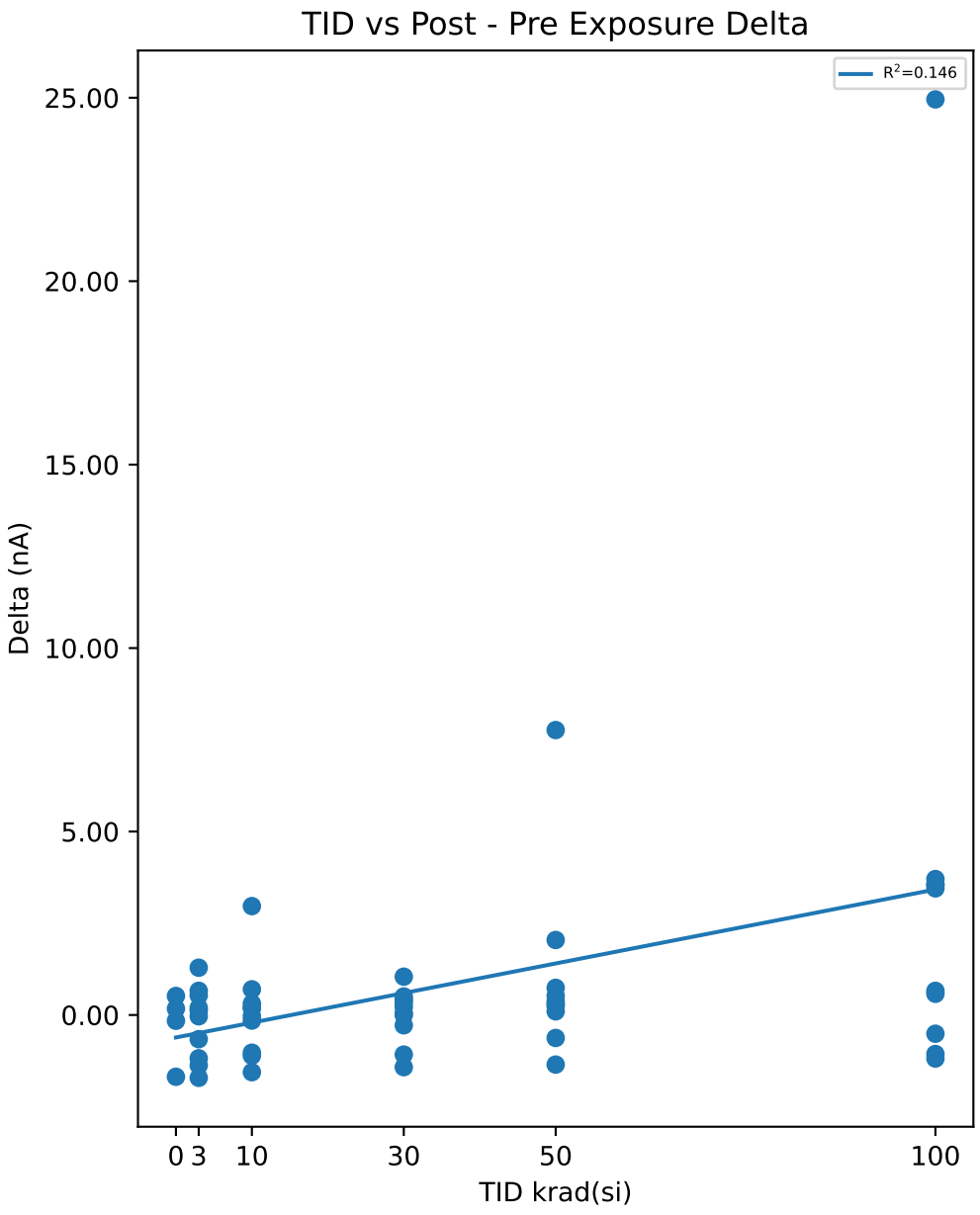
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.2004	-0.2767	-0.4771
2	3	HDR BIAS	-0.5607	-0.5791	-0.0184
3	3	HDR BIAS	-0.2468	-0.315	-0.0682
4	3	HDR BIAS	0.2066	-0.2976	-0.5042
5	3	HDR BIAS	-0.6481	-0.2642	0.3839
6	3	HDR UNBIAS	-0.4434	-0.5385	-0.0951
7	3	HDR UNBIAS	0.3222	-0.3057	-0.6279
8	3	HDR UNBIAS	-0.5514	-0.1699	0.3815
9	3	HDR UNBIAS	-0.3654	-0.3017	0.0637
10	3	HDR UNBIAS	0.1941	-0.6821	-0.8762
11	10	HDR BIAS	-0.5389	-0.3775	0.1614
12	10	HDR BIAS	-0.3498	-0.1917	0.1581
13	10	HDR BIAS	0.1597	-0.2267	-0.3864
14	10	HDR BIAS	-0.336	-0.3886	-0.0526
15	10	HDR BIAS	-0.4153	-0.3119	0.1034
16	10	HDR UNBIAS	0.2972	-0.1574	-0.4546
17	10	HDR UNBIAS	-0.4577	-0.2985	0.1592
18	10	HDR UNBIAS	-0.4466	-0.5978	-0.1512
19	10	HDR UNBIAS	0.2285	-0.3619	-0.5904
20	10	HDR UNBIAS	-0.5451	-0.1512	0.3939
31	30	HDR BIAS	0.2254	-0.2776	-0.503
32	30	HDR BIAS	-0.5233	-0.1014	0.4219
33	30	HDR BIAS	-0.4278	-0.1268	0.301
34	30	HDR BIAS	0.1566	-0.3605	-0.5171
35	30	HDR BIAS	-0.5233	-0.2276	0.2957
36	30	HDR UNBIAS	-0.406	-0.1481	0.2579
37	30	HDR UNBIAS	0.1722	-0.208	-0.3802
38	30	HDR UNBIAS	-0.5732	-0.5447	0.0285
39	30	HDR UNBIAS	-0.3311	-0.3931	-0.062
40	30	HDR UNBIAS	0.2629	-0.1699	-0.4328
41	50	HDR BIAS	-0.4827	-0.1611	0.3216
42	50	HDR BIAS	-0.3935	-0.3917	0.0018
43	50	HDR BIAS	0.216	-0.1683	-0.3843
44	50	HDR BIAS	-0.5295	-0.0858	0.4437
45	50	HDR BIAS	-0.4466	-0.2205	0.2261
46	50	HDR UNBIAS	0.1941	-0.5947	-0.7888
47	50	HDR UNBIAS	-0.542	-0.4118	0.1302
48	50	HDR UNBIAS	-0.4715	-0.1637	0.3078
49	50	HDR UNBIAS	0.2441	0.0825	-0.1616
50	50	HDR UNBIAS	-0.5638	-0.5041	0.0597
51	100	HDR BIAS	-0.4903	-0.0497	0.4406
52	100	HDR BIAS	0.2035	0.1291	-0.0744
53	100	HDR BIAS	-0.5451	0.0138	0.5589
54	100	HDR BIAS	-0.4528	-0.3137	0.1391
55	100	HDR BIAS	0.2566	-0.1777	-0.4343
56	100	HDR UNBIAS	-0.5295	0.1322	0.6617
57	100	HDR UNBIAS	-0.406	0.5103	0.9163
58	100	HDR UNBIAS	0.191	-0.3824	-0.5734
59	100	HDR UNBIAS	-0.5514	0.0128	0.5642
60	100	HDR UNBIAS	-0.3748	0.1104	0.4852
91	0	CORRELATION	-0.5514	-0.3017	0.2497
92	0	CORRELATION	-0.4653	-0.5759	-0.1106
93	0	CORRELATION	0.2629	-0.2838	-0.5467
94	0	CORRELATION	-0.4733	-0.1201	0.3532

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.5514	-0.30678	0.2629	0.38176	-0.5759	-0.32038	-0.1201	0.18894	-0.5467	-0.0136	0.3532	0.40722
3	-0.6481	-0.18925	0.3222	0.37942	-0.6821	-0.37305	-0.1699	0.16547	-0.8762	-0.1838	0.3839	0.42387
10	-0.5451	-0.2404	0.2972	0.33205	-0.5978	-0.30632	-0.1512	0.13569	-0.5904	-0.06592	0.3939	0.32127
30	-0.5732	-0.19676	0.2629	0.35287	-0.5447	-0.25577	-0.1014	0.13996	-0.5171	-0.05901	0.4219	0.37188
50	-0.5638	-0.27754	0.2441	0.34565	-0.5947	-0.26192	0.0825	0.2078	-0.7888	0.01562	0.4437	0.3742
100	-0.5514	-0.26988	0.2566	0.34118	-0.3824	-0.00149	0.5103	0.25512	-0.5734	0.26839	0.9163	0.48986

Device Test: 16.14 LEAK|EN_LEAK/EN/14/14/0/0/5/500kHz//@I_EN_LEAK





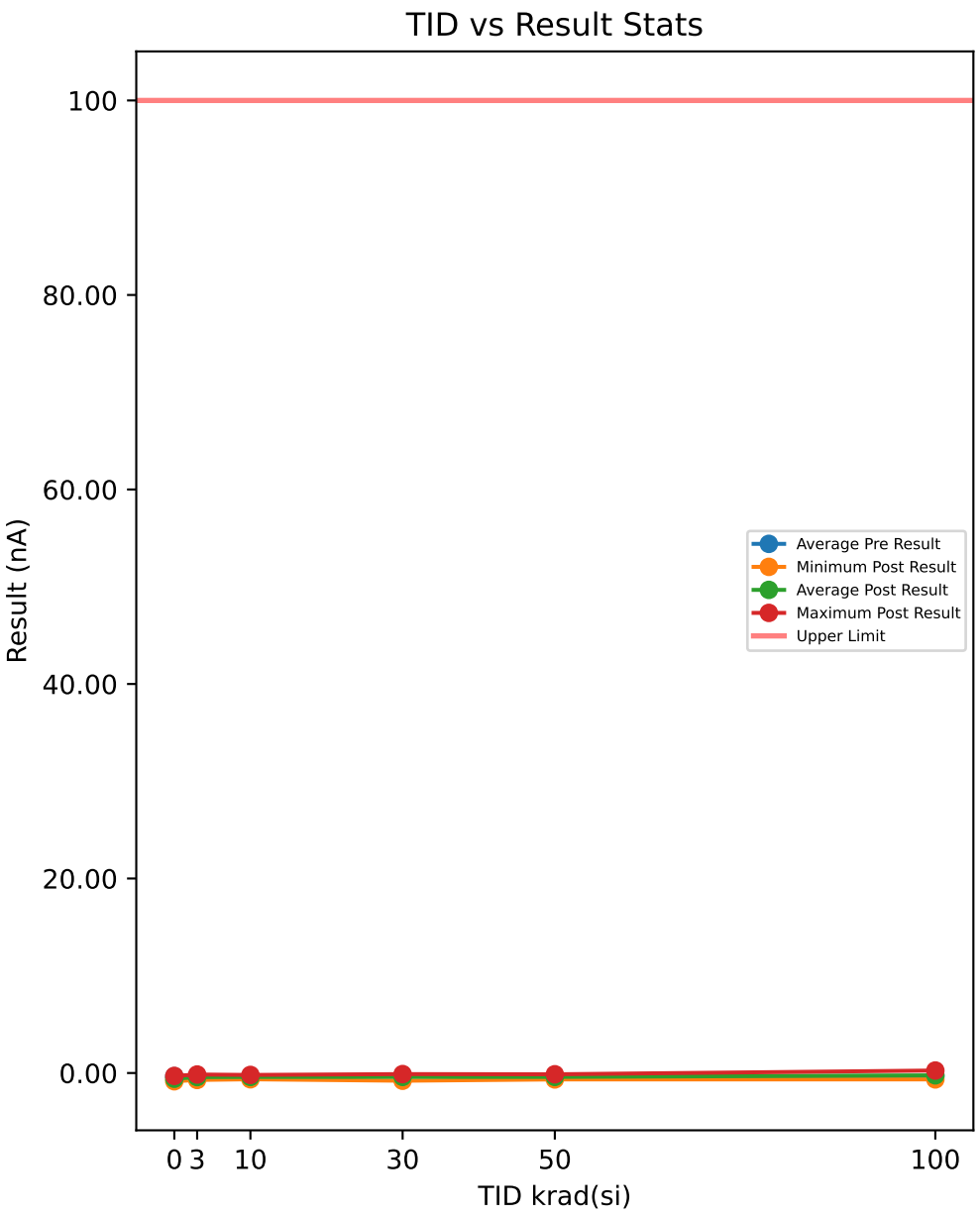
Test Results (Upper Limit = 700.0 (nA))

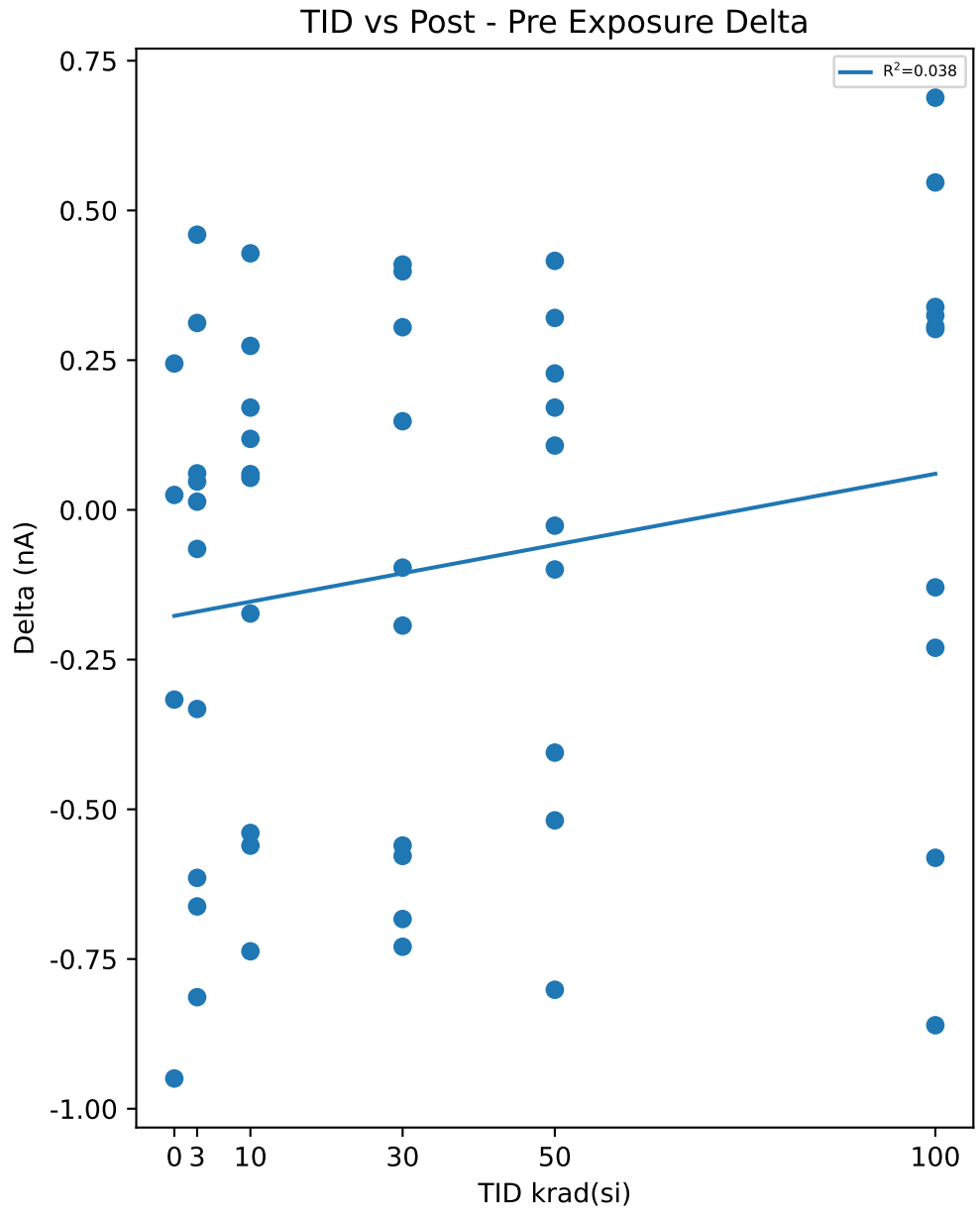
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.2285	1.569	-0.6595
2	3	HDR BIAS	-0.1549	-0.0358	0.1191
3	3	HDR BIAS	7.8308	9.1196	1.2888
4	3	HDR BIAS	1.266	0.0855	-1.1805
5	3	HDR BIAS	-0.1362	0.5228	0.659
6	3	HDR UNBIAS	-0.0814	-0.117	-0.0356
7	3	HDR UNBIAS	1.5878	-0.1246	-1.7124
8	3	HDR UNBIAS	-0.1331	0.0637	0.1968
9	3	HDR UNBIAS	0.0341	0.5665	0.5324
10	3	HDR UNBIAS	1.3379	-0.0358	-1.3737
11	10	HDR BIAS	-0.2392	-0.0466	0.1926
12	10	HDR BIAS	-0.0533	0.1353	0.1886
13	10	HDR BIAS	1.3785	0.351	-1.0275
14	10	HDR BIAS	5.2456	8.213	2.9674
15	10	HDR BIAS	-0.0658	-0.2183	-0.1525
16	10	HDR UNBIAS	2.091	0.9823	-1.1087
17	10	HDR UNBIAS	-0.0706	0.629	0.6996
18	10	HDR UNBIAS	0.0778	0.0422	-0.0356
19	10	HDR UNBIAS	1.4066	-0.1527	-1.5593
20	10	HDR UNBIAS	-0.1455	0.1664	0.3119
31	30	HDR BIAS	1.4378	0.0159	-1.4219
32	30	HDR BIAS	-0.2329	0.1945	0.4274
33	30	HDR BIAS	-0.1563	0.3479	0.5042
34	30	HDR BIAS	3.9441	4.9878	1.0437
35	30	HDR BIAS	-0.2642	-0.0434	0.2208
36	30	HDR UNBIAS	-0.2031	0.1384	0.3415
37	30	HDR UNBIAS	1.6035	1.3223	-0.2812
38	30	HDR UNBIAS	-0.1237	-0.0702	0.0535
39	30	HDR UNBIAS	0.0872	0.0846	-0.0026
40	30	HDR UNBIAS	1.6472	0.5681	-1.0791
41	50	HDR BIAS	-0.2267	0.5134	0.7401
42	50	HDR BIAS	0.3493	2.3932	2.0439
43	50	HDR BIAS	1.5316	0.9056	-0.626
44	50	HDR BIAS	-0.1299	0.2443	0.3742
45	50	HDR BIAS	-0.1126	0.4104	0.523
46	50	HDR UNBIAS	1.2441	-0.1076	-1.3517
47	50	HDR UNBIAS	0.9283	1.0274	0.0991
48	50	HDR UNBIAS	-0.1532	0.1446	0.2978
49	50	HDR UNBIAS	3.3784	11.144	7.7654
50	50	HDR UNBIAS	-0.1206	0.1265	0.2471
51	100	HDR BIAS	-0.1688	0.4092	0.578
52	100	HDR BIAS	1.2316	0.7207	-0.5109
53	100	HDR BIAS	0.6848	4.2328	3.548
54	100	HDR BIAS	-0.1344	0.5231	0.6575
55	100	HDR BIAS	1.266	0.2032	-1.0628
56	100	HDR UNBIAS	-0.0581	3.3926	3.4507
57	100	HDR UNBIAS	1.1609	26.115	24.954
58	100	HDR UNBIAS	1.2066	0.0204	-1.1862
59	100	HDR UNBIAS	-0.0425	3.6623	3.7048
60	100	HDR UNBIAS	0.0934	3.651	3.5576
91	0	CORRELATION	-0.1549	0.3635	0.5184
92	0	CORRELATION	-0.0439	-0.2013	-0.1574
93	0	CORRELATION	1.5253	-0.1589	-1.6842
94	0	CORRELATION	-0.1924	-0.0204	0.172

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.1924	0.28353	1.5253	0.83025	-0.2013	-0.004275	0.3635	0.25706	-1.6842	-0.2878	0.5184	0.97096
3	-0.1549	1.378	7.8308	2.4332	-0.1246	1.1614	9.1196	2.8437	-1.7124	-0.21656	1.2888	0.9782
10	-0.2392	0.96251	5.2456	1.7192	-0.2183	1.0102	8.213	2.5572	-1.5593	0.04765	2.9674	1.2553
30	-0.2642	0.77396	3.9441	1.3796	-0.0702	0.75459	4.9878	1.5437	-1.4219	-0.01937	1.0437	0.74207
50	-0.2267	0.66887	3.3784	1.1516	-0.1076	1.6802	11.144	3.401	-1.3517	1.0113	7.7654	2.5296
100	-0.1688	0.52395	1.266	0.64182	0.0204	4.293	26.115	7.8518	-1.1862	3.7691	24.954	7.7107

Device Test: 16.15 LEAK|EN_LEAK/EN/14/14/0/1000/5/500kHz//@I_EN_LEAK_1V





Test Results (Upper Limit = 100.0 (nA))

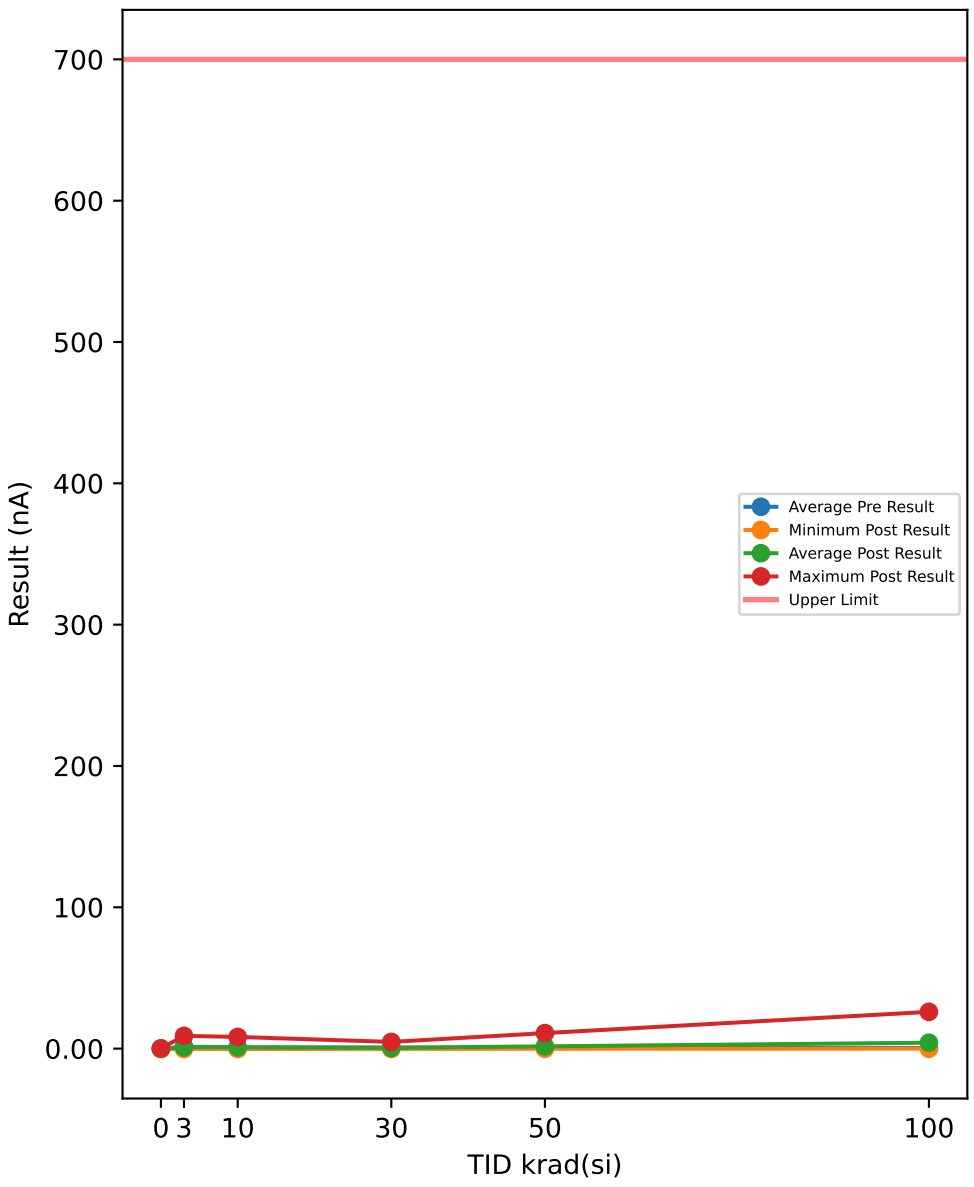
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.1629	-0.4516	-0.6145
2	3	HDR BIAS	-0.5763	-0.6415	-0.0652
3	3	HDR BIAS	-0.328	-0.2807	0.0473
4	3	HDR BIAS	0.1066	-0.2259	-0.3325
5	3	HDR BIAS	-0.67	-0.3579	0.3121
6	3	HDR UNBIAS	-0.5464	-0.4854	0.061
7	3	HDR UNBIAS	0.2597	-0.4025	-0.6622
8	3	HDR UNBIAS	-0.6138	-0.1543	0.4595
9	3	HDR UNBIAS	-0.4746	-0.4609	0.0137
10	3	HDR UNBIAS	0.1004	-0.7133	-0.8137
11	10	HDR BIAS	-0.6419	-0.4711	0.1708
12	10	HDR BIAS	-0.5215	-0.2477	0.2738
13	10	HDR BIAS	0.141	-0.3985	-0.5395
14	10	HDR BIAS	-0.5545	-0.4948	0.0597
15	10	HDR BIAS	-0.5496	-0.4961	0.0535
16	10	HDR UNBIAS	0.3535	-0.2072	-0.5607
17	10	HDR UNBIAS	-0.5264	-0.4078	0.1186
18	10	HDR UNBIAS	-0.4715	-0.6446	-0.1731
19	10	HDR UNBIAS	0.266	-0.4711	-0.7371
20	10	HDR UNBIAS	-0.6263	-0.1979	0.4284
31	30	HDR BIAS	0.1754	-0.4025	-0.5779
32	30	HDR BIAS	-0.6107	-0.201	0.4097
33	30	HDR BIAS	-0.5215	-0.3735	0.148
34	30	HDR BIAS	0.2722	-0.4573	-0.7295
35	30	HDR BIAS	-0.6481	-0.3431	0.305
36	30	HDR UNBIAS	-0.509	-0.1107	0.3983
37	30	HDR UNBIAS	0.2129	-0.4703	-0.6832
38	30	HDR UNBIAS	-0.6013	-0.7945	-0.1932
39	30	HDR UNBIAS	-0.4653	-0.5617	-0.0964
40	30	HDR UNBIAS	0.266	-0.2944	-0.5604
41	50	HDR BIAS	-0.6294	-0.4016	0.2278
42	50	HDR BIAS	-0.562	-0.5884	-0.0264
43	50	HDR BIAS	0.166	-0.3525	-0.5185
44	50	HDR BIAS	-0.6013	-0.1855	0.4158
45	50	HDR BIAS	-0.4996	-0.3922	0.1074
46	50	HDR UNBIAS	0.216	-0.5853	-0.8013
47	50	HDR UNBIAS	-0.6669	-0.4961	0.1708
48	50	HDR UNBIAS	-0.5402	-0.2197	0.3205
49	50	HDR UNBIAS	0.2754	-0.1299	-0.4053
50	50	HDR UNBIAS	-0.5607	-0.6602	-0.0995
51	100	HDR BIAS	-0.5371	-0.2308	0.3063
52	100	HDR BIAS	0.2566	0.0263	-0.2303
53	100	HDR BIAS	-0.6325	-0.3079	0.3246
54	100	HDR BIAS	-0.5277	-0.6571	-0.1294
55	100	HDR BIAS	0.1629	-0.4181	-0.581
56	100	HDR UNBIAS	-0.6169	-0.0702	0.5467
57	100	HDR UNBIAS	-0.431	0.2573	0.6883
58	100	HDR UNBIAS	0.2066	-0.654	-0.8606
59	100	HDR UNBIAS	-0.6138	-0.3119	0.3019
60	100	HDR UNBIAS	-0.3623	-0.0235	0.3388
91	0	CORRELATION	-0.5826	-0.5577	0.0249
92	0	CORRELATION	-0.5308	-0.8476	-0.3168
93	0	CORRELATION	0.3035	-0.646	-0.9495
94	0	CORRELATION	-0.542	-0.2976	0.2444

Test Statistics (nA)

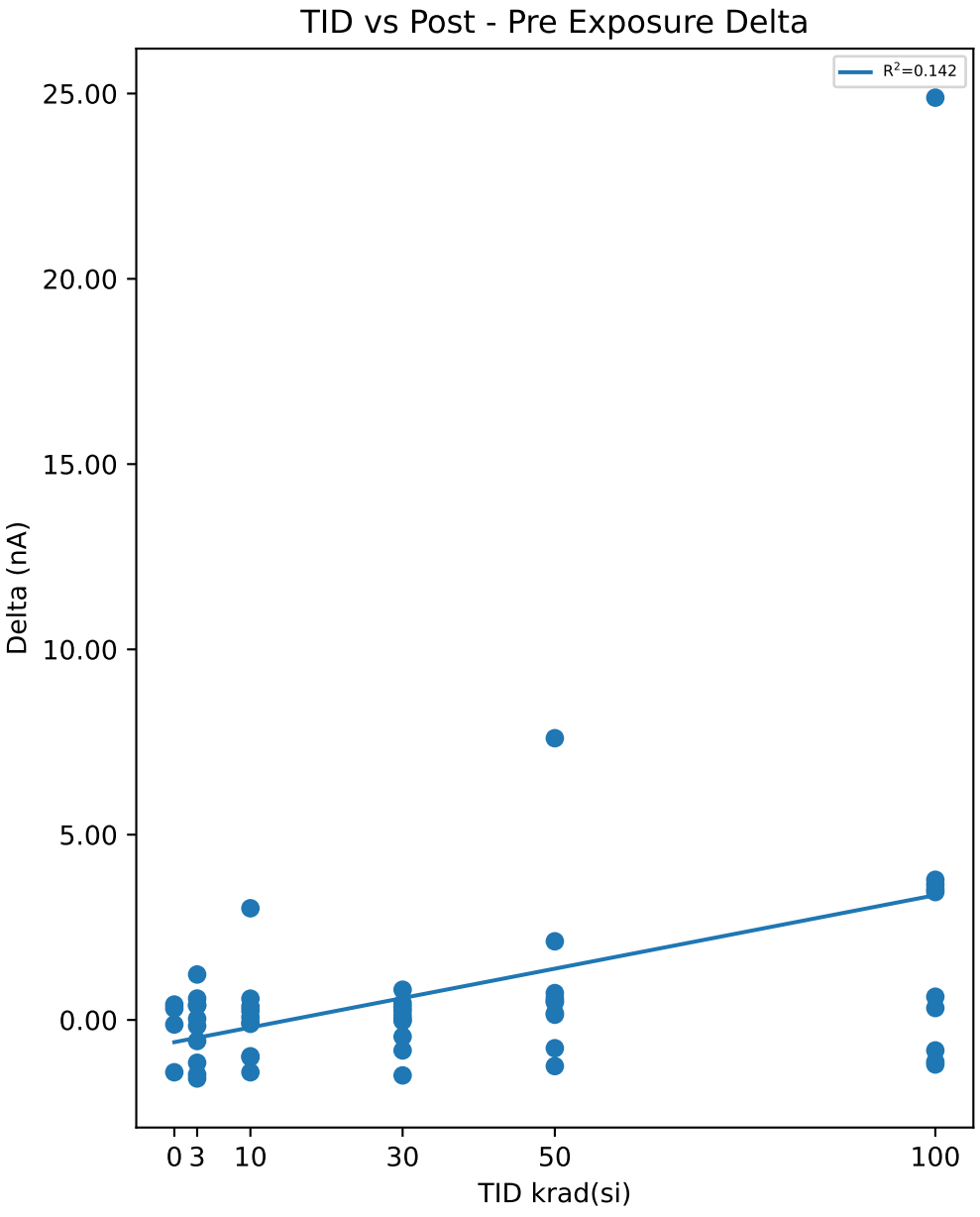
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.5826	-0.33798	0.3035	0.42823	-0.8476	-0.58722	-0.2976	0.22804	-0.9495	-0.24925	0.2444	0.52082
3	-0.67	-0.25795	0.2597	0.37106	-0.7133	-0.4174	-0.1543	0.17442	-0.8137	-0.15945	0.4595	0.42863
10	-0.6419	-0.31312	0.3535	0.39726	-0.6446	-0.40368	-0.1979	0.14503	-0.7371	-0.09056	0.4284	0.39509
30	-0.6481	-0.24294	0.2722	0.41269	-0.7945	-0.4009	-0.1107	0.19102	-0.7295	-0.15796	0.4097	0.45771
50	-0.6669	-0.34027	0.2754	0.38963	-0.6602	-0.40114	-0.1299	0.18274	-0.8013	-0.06087	0.4158	0.39679
100	-0.6325	-0.30952	0.2566	0.36793	-0.6571	-0.23899	0.2573	0.29456	-0.8606	0.07053	0.6883	0.50288

Device Test: 16.16 LEAK|EN_LEAK/EN/14/14/0/1000/5/500kHz//@I_EN_LEAK

TID vs Result Stats



TID vs Post - Pre Exposure Delta



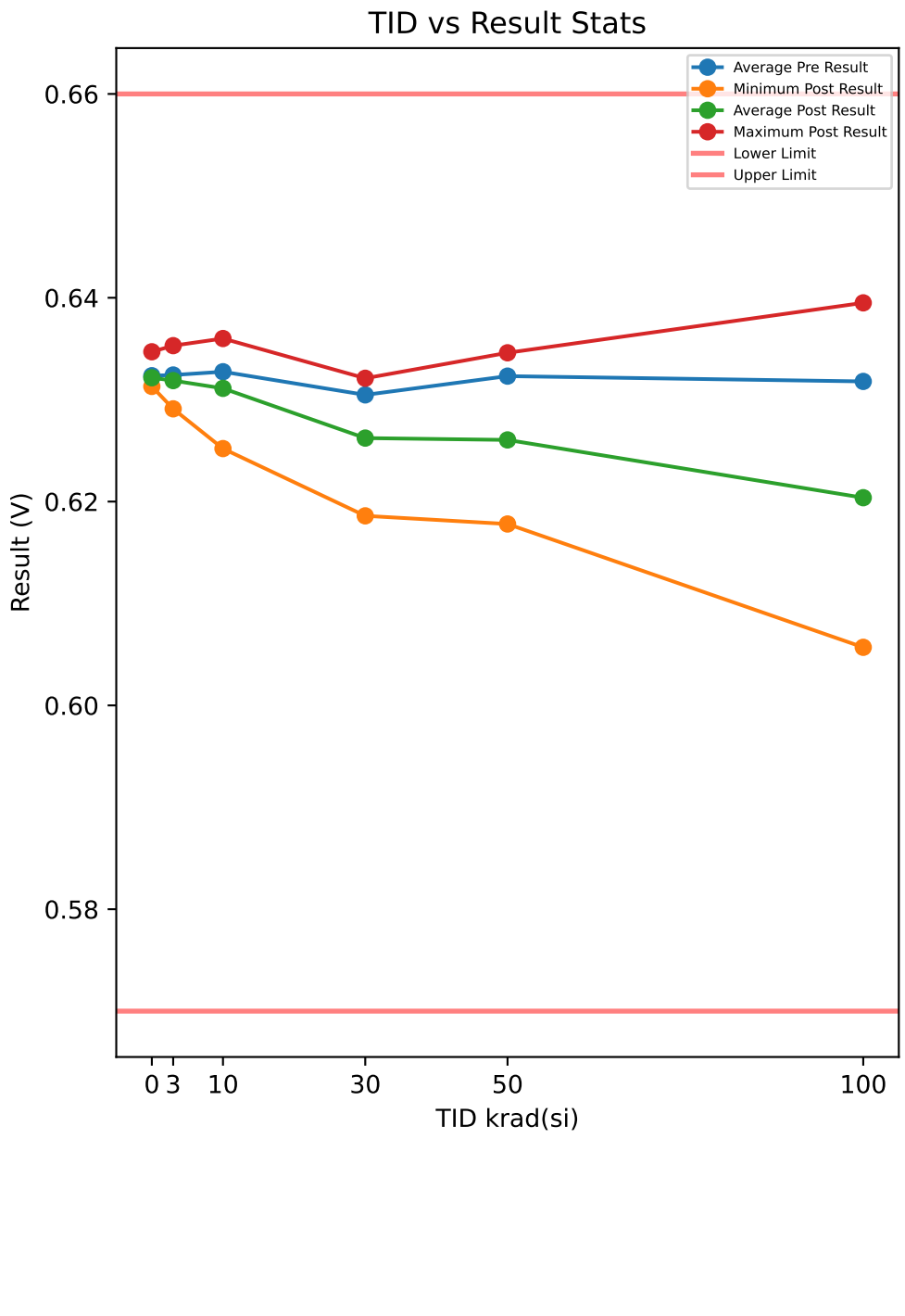
Test Results (Upper Limit = 700.0 (nA))

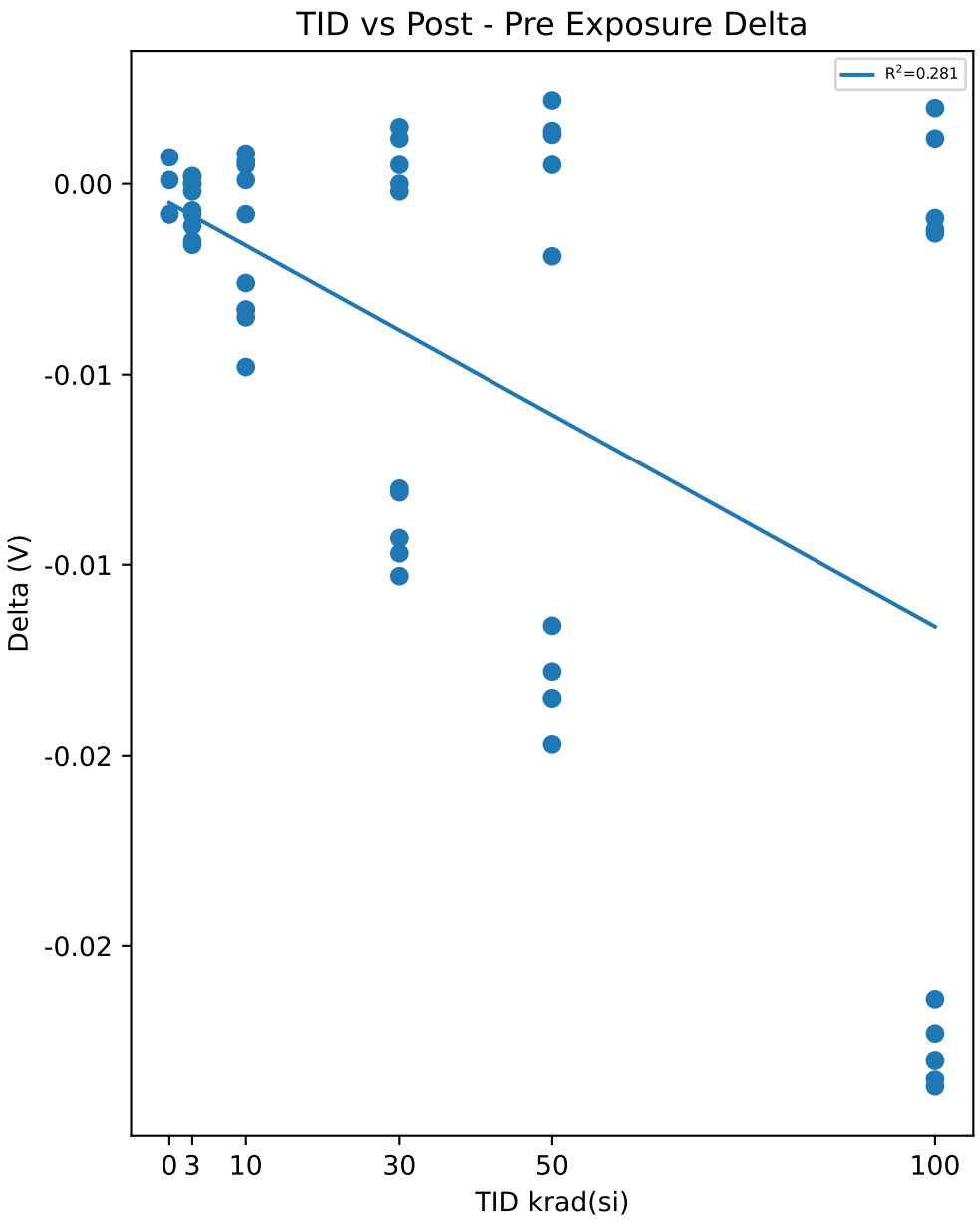
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.9128	1.3441	-0.5687
2	3	HDR BIAS	-0.2704	-0.2388	0.0316
3	3	HDR BIAS	7.7996	9.0259	1.2263
4	3	HDR BIAS	1.1941	0.0388	-1.1553
5	3	HDR BIAS	-0.2642	0.3136	0.5778
6	3	HDR UNBIAS	-0.1063	-0.2669	-0.1606
7	3	HDR UNBIAS	1.2191	-0.2526	-1.4717
8	3	HDR UNBIAS	-0.2923	0.1073	0.3996
9	3	HDR UNBIAS	-0.1282	0.2636	0.3918
10	3	HDR UNBIAS	1.3285	-0.2512	-1.5797
11	10	HDR BIAS	-0.3172	-0.2432	0.074
12	10	HDR BIAS	-0.1937	0.0512	0.2449
13	10	HDR BIAS	1.3129	0.3323	-0.9806
14	10	HDR BIAS	5.2394	8.2536	3.0142
15	10	HDR BIAS	-0.1969	-0.2713	-0.0744
16	10	HDR UNBIAS	1.991	0.9854	-1.0056
17	10	HDR UNBIAS	-0.1112	0.4635	0.5747
18	10	HDR UNBIAS	-0.0096	-0.1139	-0.1043
19	10	HDR UNBIAS	1.2347	-0.1777	-1.4124
20	10	HDR UNBIAS	-0.3578	0.0045	0.3623
31	30	HDR BIAS	1.3566	-0.1402	-1.4968
32	30	HDR BIAS	-0.3047	0.0388	0.3435
33	30	HDR BIAS	-0.253	0.2011	0.4541
34	30	HDR BIAS	3.9253	4.7411	0.8158
35	30	HDR BIAS	-0.3485	-0.2401	0.1084
36	30	HDR UNBIAS	-0.1719	0.0699	0.2418
37	30	HDR UNBIAS	1.5878	1.138	-0.4498
38	30	HDR UNBIAS	-0.2392	-0.2294	0.0098
39	30	HDR UNBIAS	-0.1095	-0.1371	-0.0276
40	30	HDR UNBIAS	1.4035	0.5806	-0.8229
41	50	HDR BIAS	-0.336	0.3885	0.7245
42	50	HDR BIAS	0.2058	2.3277	2.1219
43	50	HDR BIAS	1.4847	0.7214	-0.7633
44	50	HDR BIAS	-0.2704	0.2381	0.5085
45	50	HDR BIAS	-0.2031	0.3854	0.5885
46	50	HDR UNBIAS	1.1847	-0.0608	-1.2455
47	50	HDR UNBIAS	0.8596	1.0368	0.1772
48	50	HDR UNBIAS	-0.2281	0.2505	0.4786
49	50	HDR UNBIAS	3.3691	10.972	7.6029
50	50	HDR UNBIAS	-0.2579	-0.117	0.1409
51	100	HDR BIAS	-0.2374	0.0846	0.322
52	100	HDR BIAS	1.3254	0.5027	-0.8227
53	100	HDR BIAS	0.6193	4.1454	3.5261
54	100	HDR BIAS	-0.2718	0.3545	0.6263
55	100	HDR BIAS	1.1379	0.0096	-1.1283
56	100	HDR UNBIAS	-0.1799	3.2711	3.451
57	100	HDR UNBIAS	1.1109	26	24.889
58	100	HDR UNBIAS	1.166	-0.0358	-1.2018
59	100	HDR UNBIAS	-0.1518	3.6311	3.7829
60	100	HDR UNBIAS	0.0497	3.704	3.6543
91	0	CORRELATION	-0.2954	0.1199	0.4153
92	0	CORRELATION	-0.175	-0.2981	-0.1231
93	0	CORRELATION	1.2097	-0.2027	-1.4124
94	0	CORRELATION	-0.2985	0.0107	0.3092

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.2985	0.1102	1.2097	0.73525	-0.2981	-0.09255	0.1199	0.19164	-1.4124	-0.20275	0.4153	0.83938
3	-0.2923	1.2393	7.7996	2.451	-0.2669	1.0084	9.0259	2.8585	-1.5797	-0.23089	1.2263	0.94069
10	-0.3578	0.85916	5.2394	1.7512	-0.2713	0.92844	8.2536	2.6029	-1.4124	0.06928	3.0142	1.2269
30	-0.3485	0.68464	3.9253	1.3916	-0.2401	0.60227	4.7411	1.5158	-1.4968	-0.08237	0.8158	0.67601
50	-0.336	0.58084	3.3691	1.1885	-0.117	1.6143	10.972	3.3628	-1.2455	1.0334	7.6029	2.4759
100	-0.2718	0.45683	1.3254	0.6774	-0.0358	4.1667	26	7.8708	-1.2018	3.7098	24.889	7.7295

Device Test: 16.17 LEVEL|EN_RISE/EN/8/8/0/0/5/500kHz//@V_EN_RISE





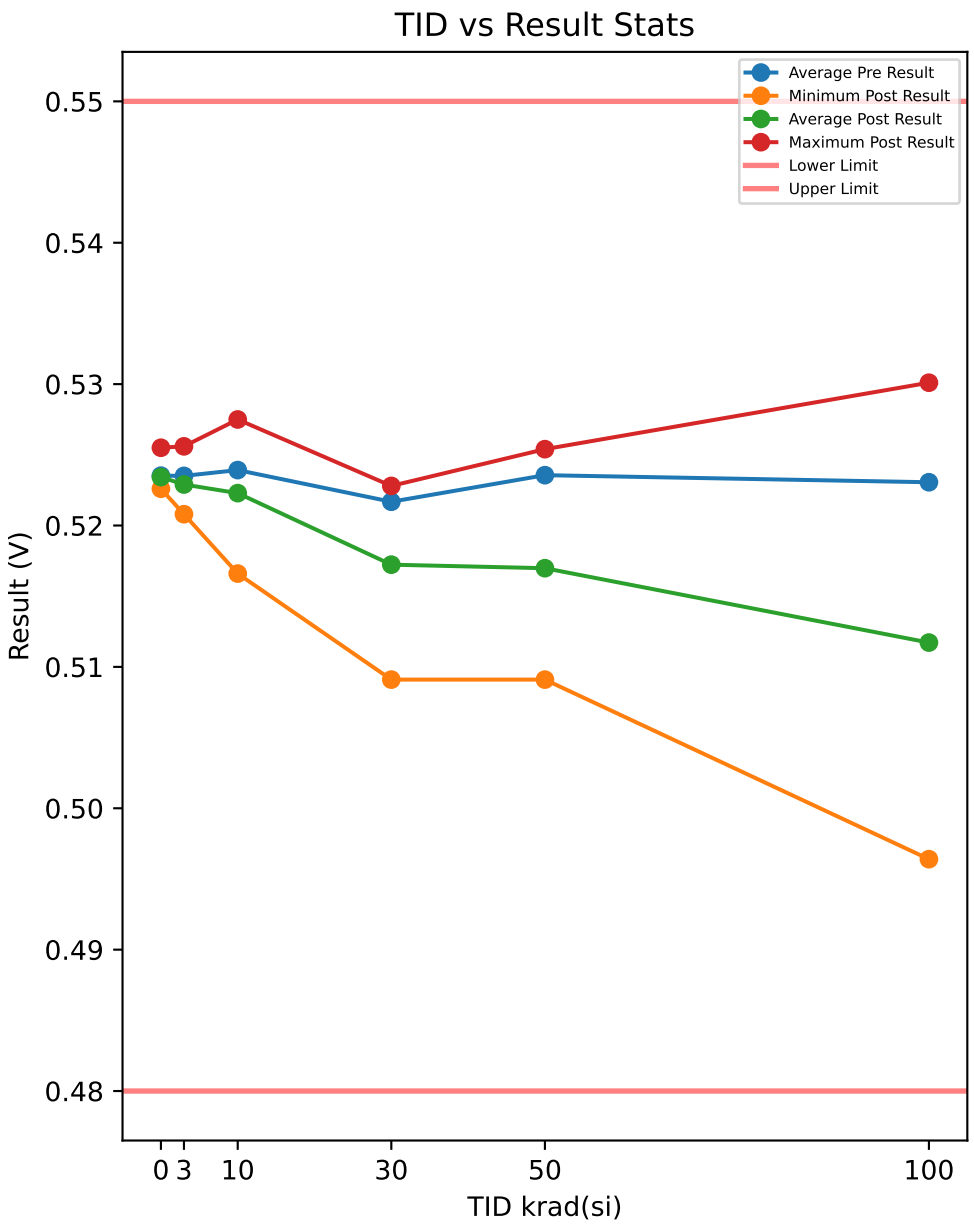
Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

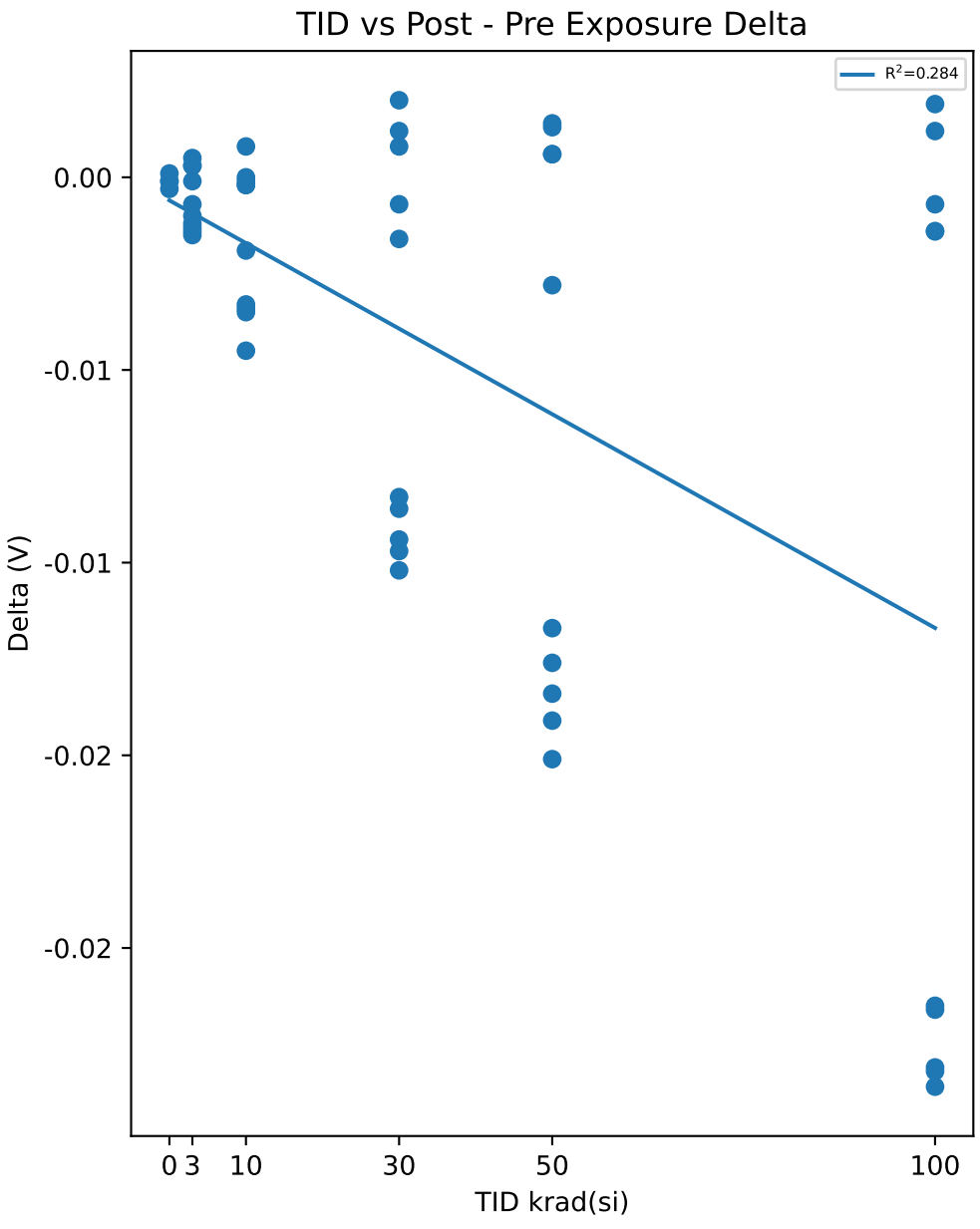
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.634	0.6333	-0.0007
2	3	HDR BIAS	0.6307	0.6299	-0.0008
3	3	HDR BIAS	0.6321	0.6306	-0.0015
4	3	HDR BIAS	0.6311	0.63	-0.0011
5	3	HDR BIAS	0.6307	0.6291	-0.0016
6	3	HDR UNBIAS	0.6313	0.6313	0
7	3	HDR UNBIAS	0.6331	0.6333	0.0002
8	3	HDR UNBIAS	0.6325	0.6327	0.0002
9	3	HDR UNBIAS	0.6334	0.6332	-0.0002
10	3	HDR UNBIAS	0.6353	0.6353	0
11	10	HDR BIAS	0.634	0.6307	-0.0033
12	10	HDR BIAS	0.6327	0.6279	-0.0048
13	10	HDR BIAS	0.634	0.6314	-0.0026
14	10	HDR BIAS	0.6285	0.6252	-0.0033
15	10	HDR BIAS	0.6321	0.6286	-0.0035
16	10	HDR UNBIAS	0.6355	0.636	0.0005
17	10	HDR UNBIAS	0.6327	0.6319	-0.0008
18	10	HDR UNBIAS	0.6307	0.6313	0.0006
19	10	HDR UNBIAS	0.6346	0.6347	0.0001
20	10	HDR UNBIAS	0.6326	0.6334	0.0008
31	30	HDR BIAS	0.632	0.6217	-0.0103
32	30	HDR BIAS	0.632	0.6239	-0.0081
33	30	HDR BIAS	0.6266	0.6186	-0.008
34	30	HDR BIAS	0.6306	0.6209	-0.0097
35	30	HDR BIAS	0.632	0.6227	-0.0093
36	30	HDR UNBIAS	0.6321	0.6321	0
37	30	HDR UNBIAS	0.6288	0.6293	0.0005
38	30	HDR UNBIAS	0.6306	0.6318	0.0012
39	30	HDR UNBIAS	0.6286	0.6301	0.0015
40	30	HDR UNBIAS	0.6314	0.6312	-0.0002
41	50	HDR BIAS	0.6341	0.6206	-0.0135
42	50	HDR BIAS	0.6294	0.6178	-0.0116
43	50	HDR BIAS	0.632	0.6185	-0.0135
44	50	HDR BIAS	0.6332	0.6185	-0.0147
45	50	HDR BIAS	0.6354	0.6226	-0.0128
46	50	HDR UNBIAS	0.6311	0.6333	0.0022
47	50	HDR UNBIAS	0.6332	0.6346	0.0014
48	50	HDR UNBIAS	0.6328	0.6341	0.0013
49	50	HDR UNBIAS	0.6314	0.6319	0.0005
50	50	HDR UNBIAS	0.6305	0.6286	-0.0019
51	100	HDR BIAS	0.6314	0.6077	-0.0237
52	100	HDR BIAS	0.63	0.6065	-0.0235
53	100	HDR BIAS	0.6325	0.6111	-0.0214
54	100	HDR BIAS	0.6287	0.6057	-0.023
55	100	HDR BIAS	0.6334	0.6111	-0.0223
56	100	HDR UNBIAS	0.6338	0.6325	-0.0013
57	100	HDR UNBIAS	0.6273	0.6293	0.002
58	100	HDR UNBIAS	0.6313	0.6304	-0.0009
59	100	HDR UNBIAS	0.6312	0.63	-0.0012
60	100	HDR UNBIAS	0.6383	0.6395	0.0012
91	0	CORRELATION	0.6312	0.6313	0.0001
92	0	CORRELATION	0.6321	0.6313	-0.0008
93	0	CORRELATION	0.6321	0.6313	-0.0008
94	0	CORRELATION	0.634	0.6347	0.0007

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6312	0.63235	0.634	0.001179	0.6313	0.63215	0.6347	0.0017	-0.0008	-0.0002	0.0007	0.00073485
3	0.6307	0.63242	0.6353	0.0015361	0.6291	0.63187	0.6353	0.0019805	-0.0016	-0.00055	0.0002	0.00068678
10	0.6285	0.63274	0.6355	0.0020228	0.6252	0.63111	0.636	0.0032402	-0.0048	-0.00163	0.0008	0.002086
30	0.6266	0.63047	0.6321	0.0018809	0.6186	0.62623	0.6321	0.0051599	-0.0103	-0.00424	0.0015	0.0051692
50	0.6294	0.63231	0.6354	0.001786	0.6178	0.62605	0.6346	0.0071092	-0.0147	-0.00626	0.0022	0.0074496
100	0.6273	0.63179	0.6383	0.0030399	0.6057	0.62038	0.6395	0.013022	-0.0237	-0.01141	0.002	0.012045

Device Test: 16.18 LEVEL|EN_FALL/EN/8/8/0/0/5/500kHz//@V_EN_FALL





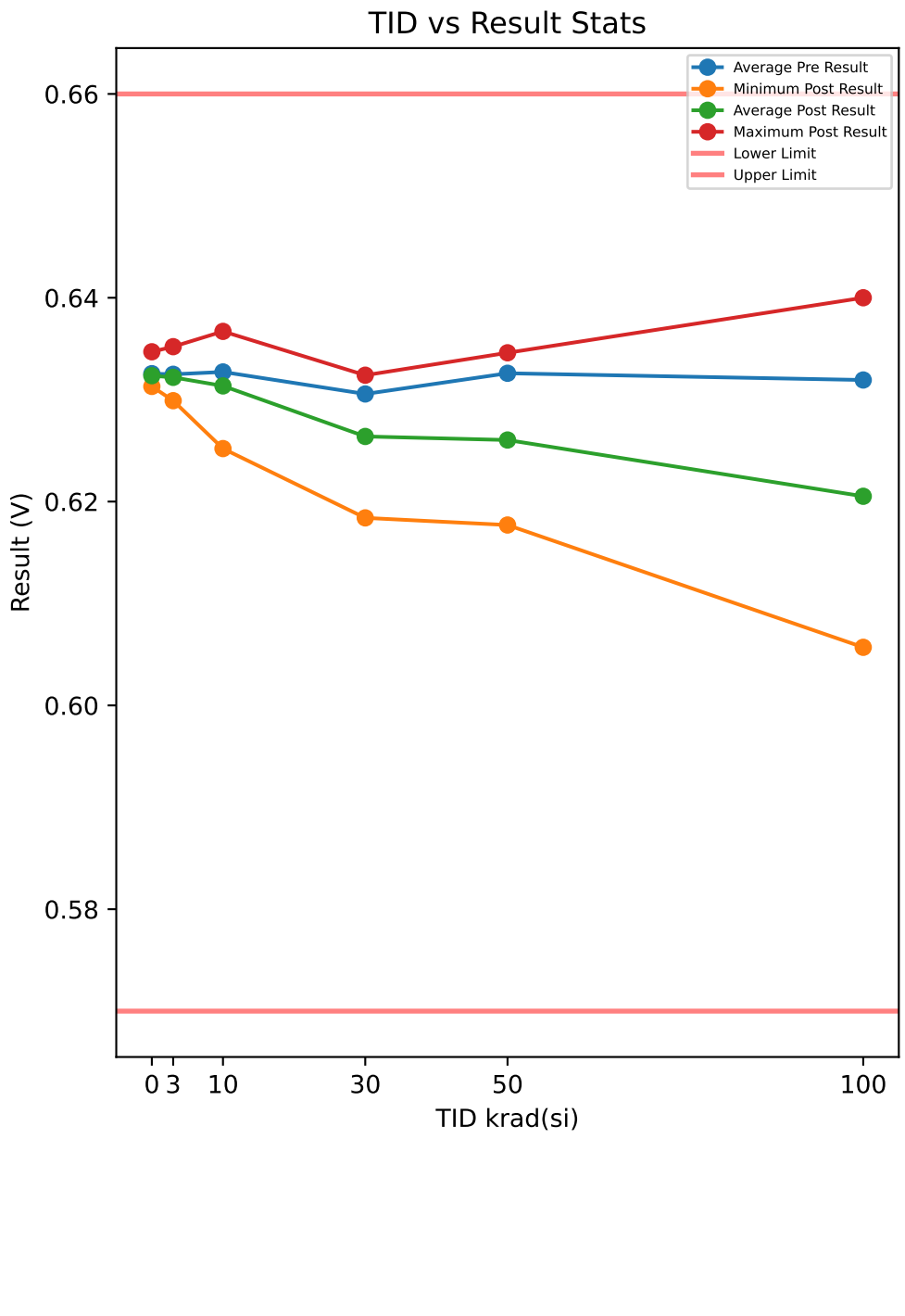
Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

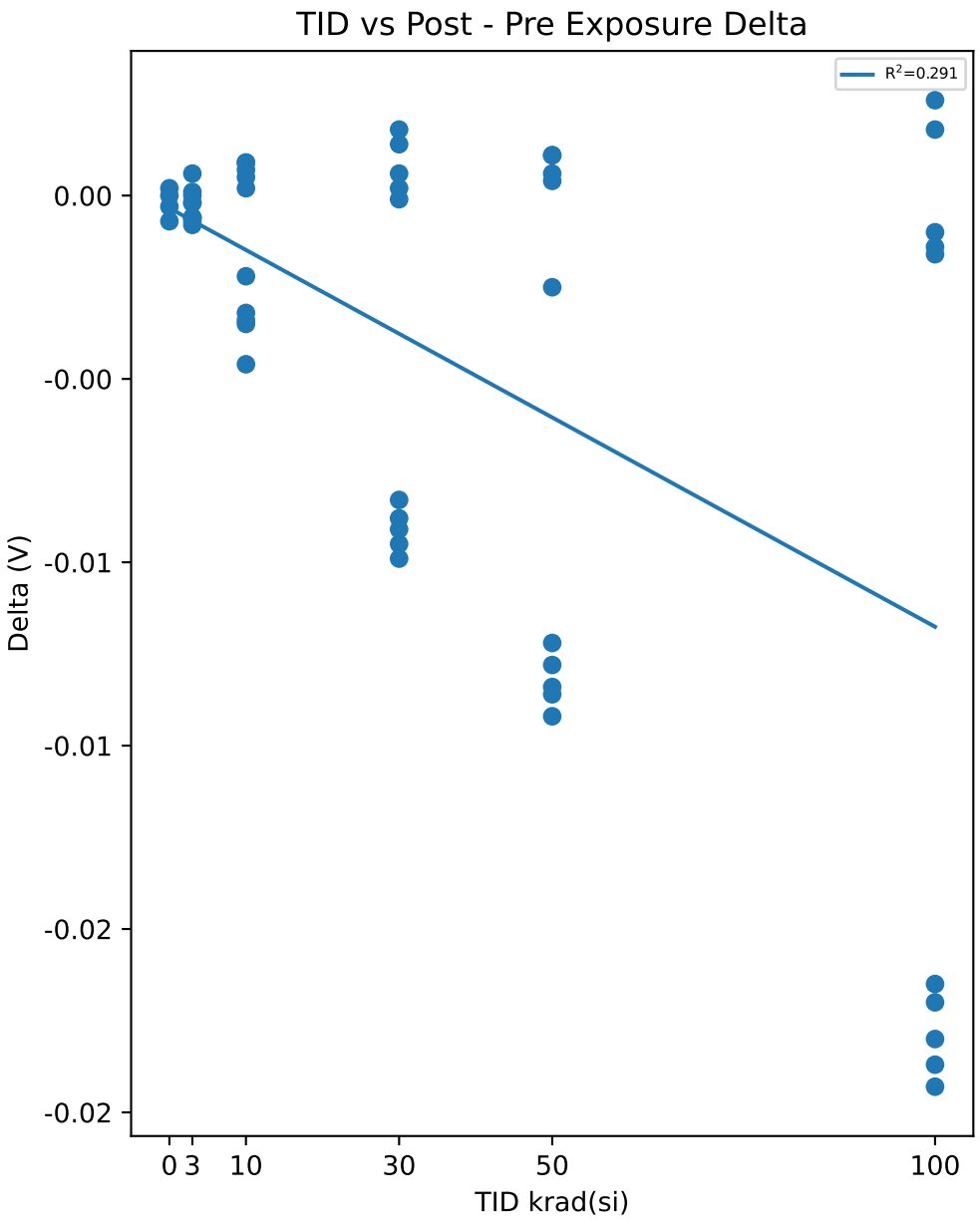
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.5247	0.5235	-0.0012
2	3	HDR BIAS	0.5222	0.5208	-0.0014
3	3	HDR BIAS	0.5229	0.5214	-0.0015
4	3	HDR BIAS	0.5222	0.5215	-0.0007
5	3	HDR BIAS	0.5227	0.5214	-0.0013
6	3	HDR UNBIAS	0.5221	0.5211	-0.001
7	3	HDR UNBIAS	0.5253	0.5256	0.0003
8	3	HDR UNBIAS	0.5234	0.5233	-0.0001
9	3	HDR UNBIAS	0.5243	0.5248	0.0005
10	3	HDR UNBIAS	0.5253	0.5256	0.0003
11	10	HDR BIAS	0.5247	0.5213	-0.0034
12	10	HDR BIAS	0.5248	0.5203	-0.0045
13	10	HDR BIAS	0.5247	0.5228	-0.0019
14	10	HDR BIAS	0.5201	0.5166	-0.0035
15	10	HDR BIAS	0.5235	0.5202	-0.0033
16	10	HDR UNBIAS	0.5267	0.5275	0.0008
17	10	HDR UNBIAS	0.5234	0.5233	-0.0001
18	10	HDR UNBIAS	0.5215	0.5213	-0.0002
19	10	HDR UNBIAS	0.5262	0.5262	0
20	10	HDR UNBIAS	0.5236	0.5234	-0.0002
31	30	HDR BIAS	0.5241	0.5139	-0.0102
32	30	HDR BIAS	0.5234	0.5151	-0.0083
33	30	HDR BIAS	0.5177	0.5091	-0.0086
34	30	HDR BIAS	0.5216	0.5119	-0.0097
35	30	HDR BIAS	0.5227	0.5133	-0.0094
36	30	HDR UNBIAS	0.5244	0.5228	-0.0016
37	30	HDR UNBIAS	0.5193	0.5201	0.0008
38	30	HDR UNBIAS	0.5208	0.5228	0.002
39	30	HDR UNBIAS	0.5195	0.5207	0.0012
40	30	HDR UNBIAS	0.5233	0.5226	-0.0007
41	50	HDR BIAS	0.5253	0.5119	-0.0134
42	50	HDR BIAS	0.5208	0.5091	-0.0117
43	50	HDR BIAS	0.5233	0.5092	-0.0141
44	50	HDR BIAS	0.5242	0.5091	-0.0151
45	50	HDR BIAS	0.5261	0.5135	-0.0126
46	50	HDR UNBIAS	0.5227	0.524	0.0013
47	50	HDR UNBIAS	0.5248	0.5254	0.0006
48	50	HDR UNBIAS	0.5235	0.5241	0.0006
49	50	HDR UNBIAS	0.5221	0.5235	0.0014
50	50	HDR UNBIAS	0.5228	0.52	-0.0028
51	100	HDR BIAS	0.523	0.4998	-0.0232
52	100	HDR BIAS	0.5207	0.4971	-0.0236
53	100	HDR BIAS	0.5241	0.5025	-0.0216
54	100	HDR BIAS	0.5195	0.4964	-0.0231
55	100	HDR BIAS	0.5247	0.5032	-0.0215
56	100	HDR UNBIAS	0.5254	0.524	-0.0014
57	100	HDR UNBIAS	0.5189	0.5208	0.0019
58	100	HDR UNBIAS	0.5227	0.522	-0.0007
59	100	HDR UNBIAS	0.5227	0.5213	-0.0014
60	100	HDR UNBIAS	0.5289	0.5301	0.0012
91	0	CORRELATION	0.5229	0.5228	-0.0001
92	0	CORRELATION	0.5229	0.5226	-0.0003
93	0	CORRELATION	0.5227	0.5228	0.0001
94	0	CORRELATION	0.5256	0.5255	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5227	0.52353	0.5256	0.0013865	0.5226	0.52343	0.5255	0.0013865	-0.0003	-0.0001	0.0001	0.0001633
3	0.5221	0.52351	0.5253	0.0012871	0.5208	0.5229	0.5256	0.0019096	-0.0015	-0.00061	0.0005	0.00078521
10	0.5201	0.52392	0.5267	0.0019977	0.5166	0.52229	0.5275	0.00312	-0.0045	-0.00163	0.0008	0.0019067
30	0.5177	0.52168	0.5244	0.0022832	0.5091	0.51723	0.5228	0.0051288	-0.0102	-0.00445	0.002	0.0051688
50	0.5208	0.52356	0.5261	0.0015834	0.5091	0.51698	0.5254	0.0070327	-0.0151	-0.00658	0.0014	0.0073127
100	0.5189	0.52306	0.5289	0.0029658	0.4964	0.51172	0.5301	0.012981	-0.0236	-0.01134	0.0019	0.011931

Device Test: 16.7 LEVEL|EN_RISE/EN/12/12/0/0/5/500kHz//@V_EN_RISE





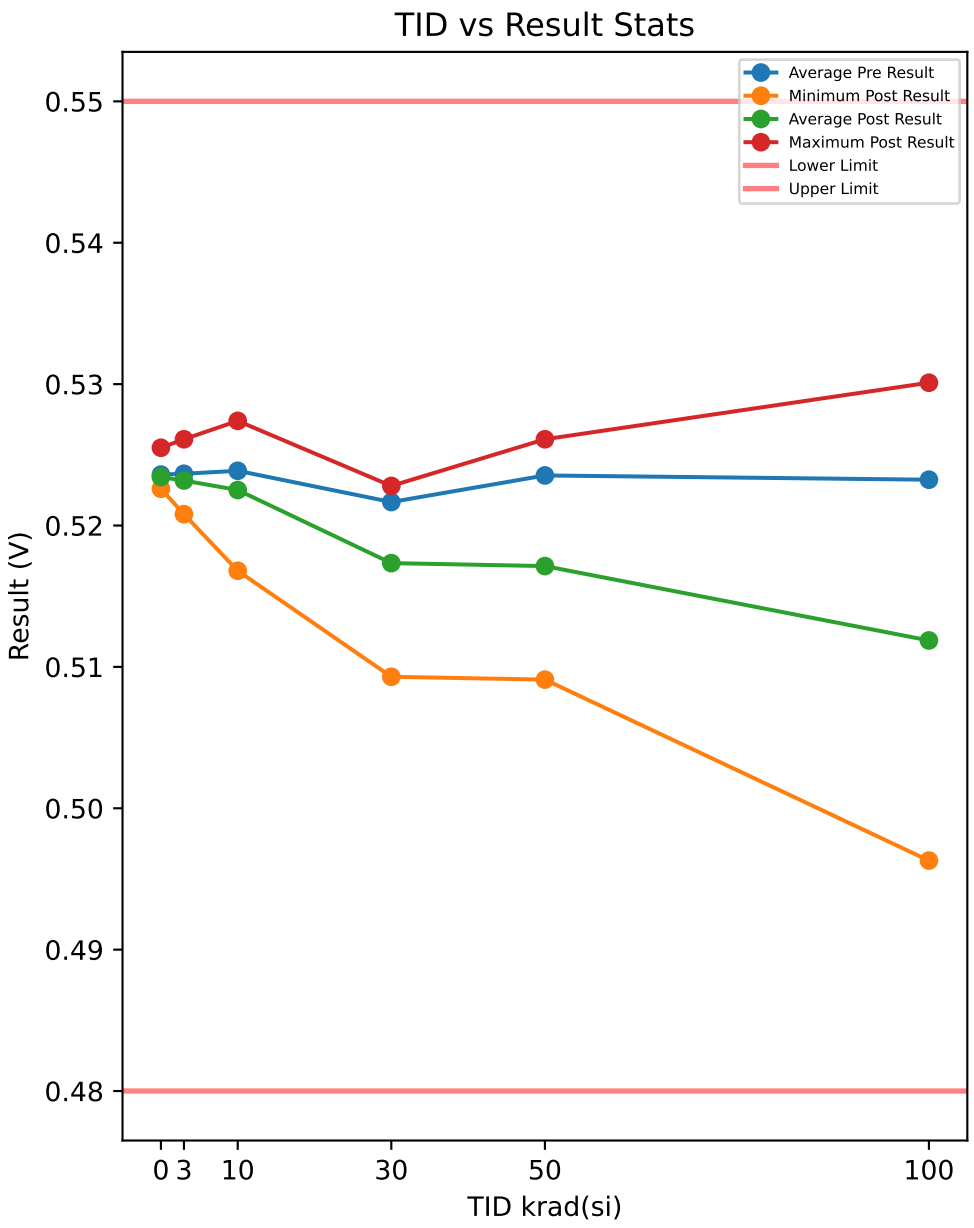
Test Results (Lower Limit = 0.57, Upper Limit = 0.66 (V))

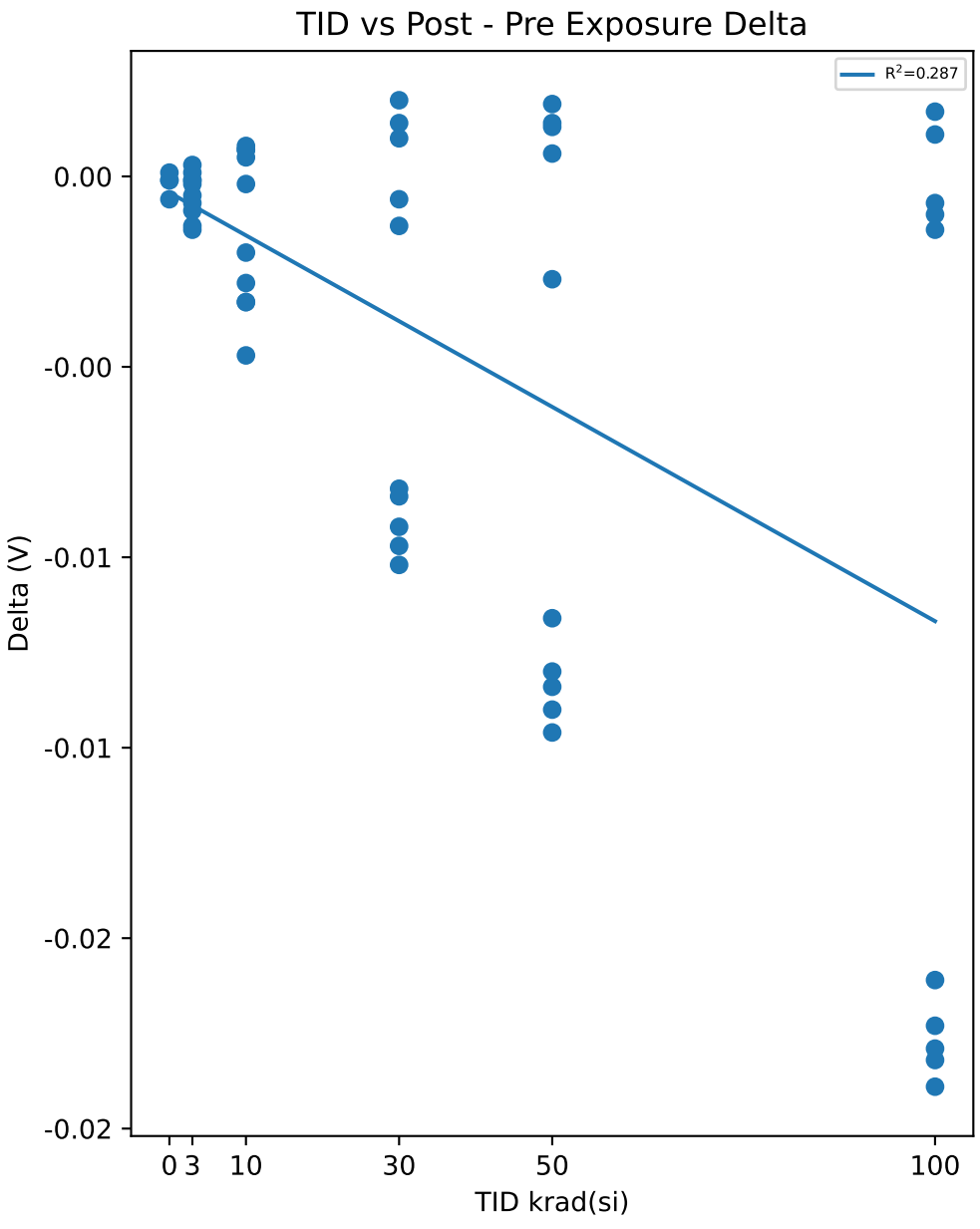
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.6339	0.6333	-0.0006
2	3	HDR BIAS	0.6307	0.6299	-0.0008
3	3	HDR BIAS	0.6321	0.6315	-0.0006
4	3	HDR BIAS	0.6313	0.6306	-0.0007
5	3	HDR BIAS	0.6307	0.6301	-0.0006
6	3	HDR UNBIAS	0.6314	0.6312	-0.0002
7	3	HDR UNBIAS	0.6333	0.6333	0
8	3	HDR UNBIAS	0.6325	0.6326	0.0001
9	3	HDR UNBIAS	0.6336	0.6342	0.0006
10	3	HDR UNBIAS	0.6354	0.6352	-0.0002
11	10	HDR BIAS	0.6338	0.6306	-0.0032
12	10	HDR BIAS	0.6327	0.6281	-0.0046
13	10	HDR BIAS	0.634	0.6318	-0.0022
14	10	HDR BIAS	0.6287	0.6252	-0.0035
15	10	HDR BIAS	0.6319	0.6285	-0.0034
16	10	HDR UNBIAS	0.6358	0.6367	0.0009
17	10	HDR UNBIAS	0.6325	0.6327	0.0002
18	10	HDR UNBIAS	0.6307	0.6312	0.0005
19	10	HDR UNBIAS	0.6346	0.6353	0.0007
20	10	HDR UNBIAS	0.6325	0.6334	0.0009
31	30	HDR BIAS	0.632	0.6221	-0.0099
32	30	HDR BIAS	0.6327	0.6239	-0.0088
33	30	HDR BIAS	0.6267	0.6184	-0.0083
34	30	HDR BIAS	0.6313	0.6218	-0.0095
35	30	HDR BIAS	0.6318	0.6227	-0.0091
36	30	HDR UNBIAS	0.6319	0.6321	0.0002
37	30	HDR UNBIAS	0.6286	0.6292	0.0006
38	30	HDR UNBIAS	0.6306	0.6324	0.0018
39	30	HDR UNBIAS	0.6287	0.6301	0.0014
40	30	HDR UNBIAS	0.6313	0.6312	-0.0001
41	50	HDR BIAS	0.6338	0.6204	-0.0134
42	50	HDR BIAS	0.6299	0.6177	-0.0122
43	50	HDR BIAS	0.6321	0.6185	-0.0136
44	50	HDR BIAS	0.6333	0.6191	-0.0142
45	50	HDR BIAS	0.6354	0.6226	-0.0128
46	50	HDR UNBIAS	0.6321	0.6332	0.0011
47	50	HDR UNBIAS	0.634	0.6346	0.0006
48	50	HDR UNBIAS	0.6328	0.6339	0.0011
49	50	HDR UNBIAS	0.6314	0.6318	0.0004
50	50	HDR UNBIAS	0.6311	0.6286	-0.0025
51	100	HDR BIAS	0.6314	0.6077	-0.0237
52	100	HDR BIAS	0.6308	0.6065	-0.0243
53	100	HDR BIAS	0.6326	0.6111	-0.0215
54	100	HDR BIAS	0.6287	0.6057	-0.023
55	100	HDR BIAS	0.6331	0.6111	-0.022
56	100	HDR UNBIAS	0.634	0.6326	-0.0014
57	100	HDR UNBIAS	0.6273	0.6299	0.0026
58	100	HDR UNBIAS	0.6321	0.6305	-0.0016
59	100	HDR UNBIAS	0.6311	0.6301	-0.001
60	100	HDR UNBIAS	0.6382	0.64	0.0018
91	0	CORRELATION	0.632	0.6313	-0.0007
92	0	CORRELATION	0.6322	0.6319	-0.0003
93	0	CORRELATION	0.6313	0.6315	0.0002
94	0	CORRELATION	0.6347	0.6347	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6313	0.63255	0.6347	0.0014844	0.6313	0.63235	0.6347	0.0015864	-0.0007	-0.0002	0.0002	0.00039158
3	0.6307	0.63249	0.6354	0.0015459	0.6299	0.63219	0.6352	0.0018052	-0.0008	-0.0003	0.0006	0.00044222
10	0.6287	0.63272	0.6358	0.0020231	0.6252	0.63135	0.6367	0.0034568	-0.0046	-0.00137	0.0009	0.0022031
30	0.6267	0.63056	0.6327	0.0019231	0.6184	0.62639	0.6324	0.0051278	-0.0099	-0.00417	0.0018	0.0052612
50	0.6299	0.63259	0.6354	0.0016072	0.6177	0.62604	0.6346	0.0070259	-0.0142	-0.00655	0.0011	0.0071415
100	0.6273	0.63193	0.6382	0.0029732	0.6057	0.62052	0.64	0.013177	-0.0243	-0.01141	0.0026	0.012207

Device Test: 16.8 LEVEL|EN_FALL/EN/12/12/0/0/5/500kHz//@V_EN_FALL





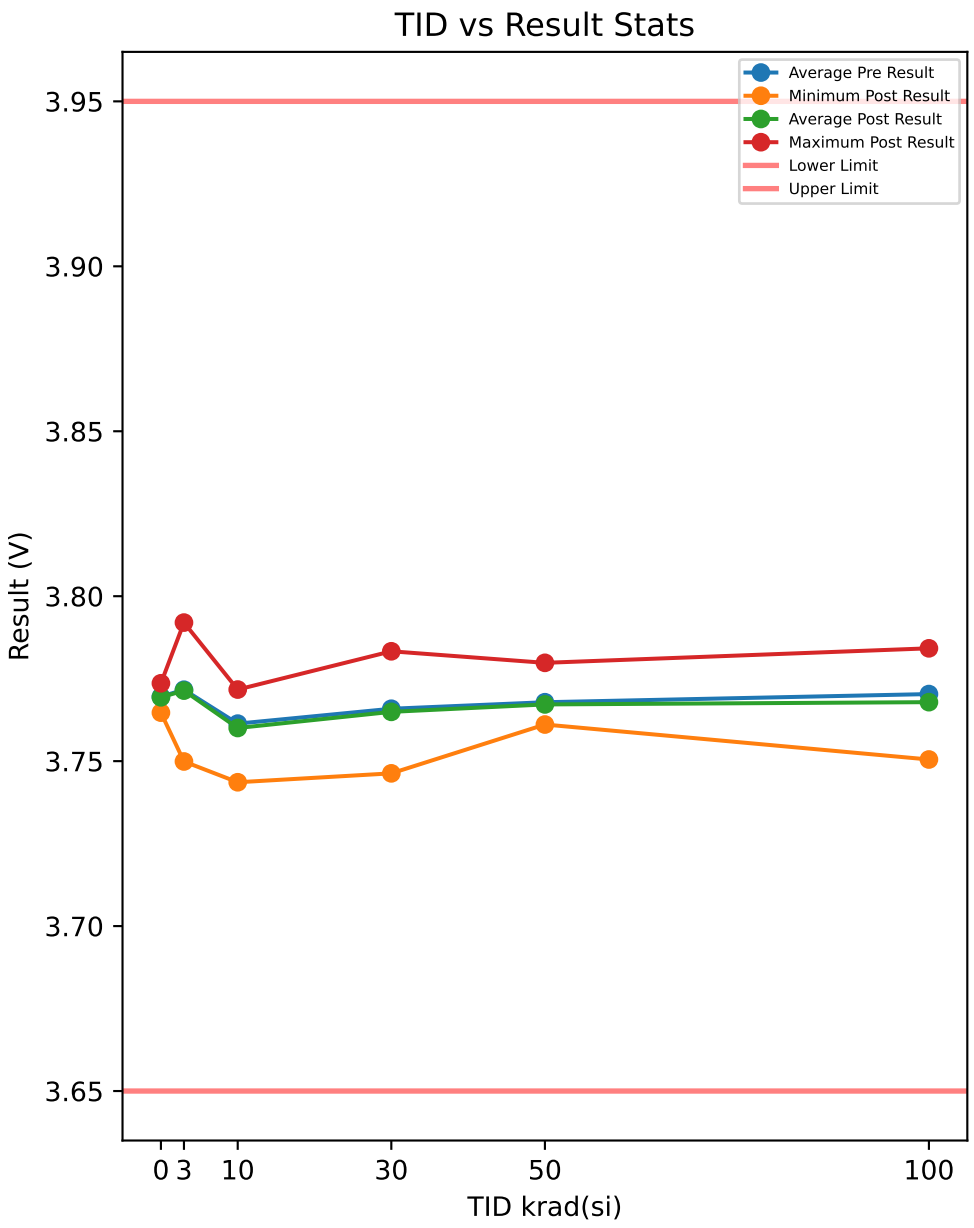
Test Results (Lower Limit = 0.48, Upper Limit = 0.55 (V))

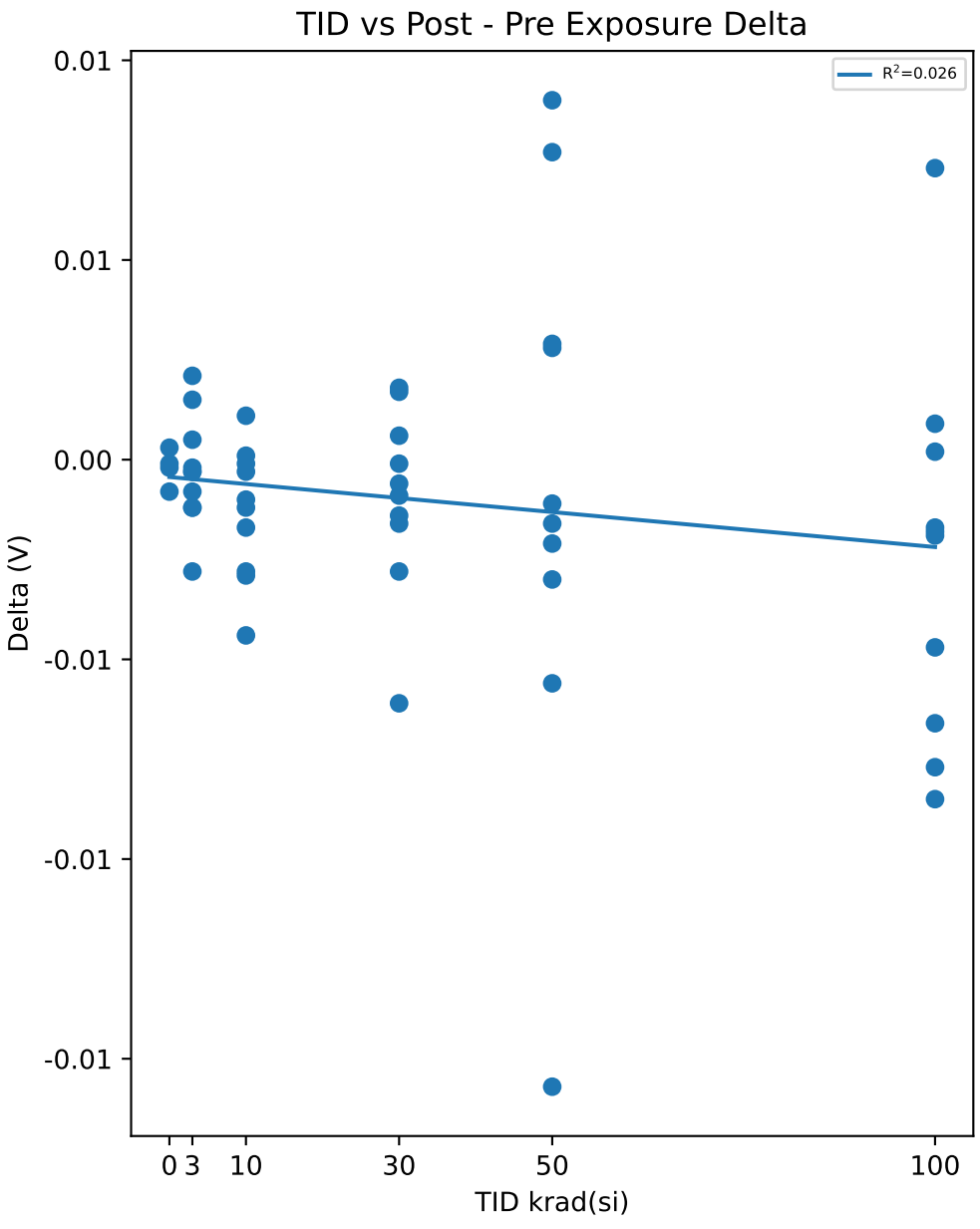
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.5247	0.524	-0.0007
2	3	HDR BIAS	0.5222	0.5208	-0.0014
3	3	HDR BIAS	0.5228	0.5223	-0.0005
4	3	HDR BIAS	0.5227	0.5214	-0.0013
5	3	HDR BIAS	0.5228	0.5219	-0.0009
6	3	HDR UNBIAS	0.5221	0.522	-0.0001
7	3	HDR UNBIAS	0.5254	0.5253	-0.0001
8	3	HDR UNBIAS	0.5233	0.5234	0.0001
9	3	HDR UNBIAS	0.5243	0.5246	0.0003
10	3	HDR UNBIAS	0.5263	0.5261	-0.0002
11	10	HDR BIAS	0.5249	0.5221	-0.0028
12	10	HDR BIAS	0.5248	0.5201	-0.0047
13	10	HDR BIAS	0.5249	0.5229	-0.002
14	10	HDR BIAS	0.5201	0.5168	-0.0033
15	10	HDR BIAS	0.5235	0.5202	-0.0033
16	10	HDR UNBIAS	0.5267	0.5274	0.0007
17	10	HDR UNBIAS	0.5236	0.5234	-0.0002
18	10	HDR UNBIAS	0.5215	0.522	0.0005
19	10	HDR UNBIAS	0.5261	0.5268	0.0007
20	10	HDR UNBIAS	0.5226	0.5234	0.0008
31	30	HDR BIAS	0.5241	0.5139	-0.0102
32	30	HDR BIAS	0.5236	0.5154	-0.0082
33	30	HDR BIAS	0.5177	0.5093	-0.0084
34	30	HDR BIAS	0.5213	0.5121	-0.0092
35	30	HDR BIAS	0.5229	0.5132	-0.0097
36	30	HDR UNBIAS	0.5241	0.5228	-0.0013
37	30	HDR UNBIAS	0.5193	0.5203	0.001
38	30	HDR UNBIAS	0.5208	0.5228	0.002
39	30	HDR UNBIAS	0.5194	0.5208	0.0014
40	30	HDR UNBIAS	0.5234	0.5228	-0.0006
41	50	HDR BIAS	0.5254	0.512	-0.0134
42	50	HDR BIAS	0.5207	0.5091	-0.0116
43	50	HDR BIAS	0.5234	0.5094	-0.014
44	50	HDR BIAS	0.5241	0.5095	-0.0146
45	50	HDR BIAS	0.5261	0.5131	-0.013
46	50	HDR UNBIAS	0.5227	0.5246	0.0019
47	50	HDR UNBIAS	0.5247	0.5261	0.0014
48	50	HDR UNBIAS	0.5235	0.5241	0.0006
49	50	HDR UNBIAS	0.5221	0.5234	0.0013
50	50	HDR UNBIAS	0.5227	0.52	-0.0027
51	100	HDR BIAS	0.5229	0.4997	-0.0232
52	100	HDR BIAS	0.5208	0.4979	-0.0229
53	100	HDR BIAS	0.5249	0.5026	-0.0223
54	100	HDR BIAS	0.5202	0.4963	-0.0239
55	100	HDR BIAS	0.5249	0.5038	-0.0211
56	100	HDR UNBIAS	0.5253	0.5243	-0.001
57	100	HDR UNBIAS	0.5189	0.5206	0.0017
58	100	HDR UNBIAS	0.5227	0.522	-0.0007
59	100	HDR UNBIAS	0.5228	0.5214	-0.0014
60	100	HDR UNBIAS	0.529	0.5301	0.0011
91	0	CORRELATION	0.5234	0.5228	-0.0006
92	0	CORRELATION	0.5229	0.5228	-0.0001
93	0	CORRELATION	0.5227	0.5226	-0.0001
94	0	CORRELATION	0.5254	0.5255	0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5227	0.5236	0.5254	0.0012356	0.5226	0.52343	0.5255	0.0013865	-0.0006	-0.000175	0.0001	0.00029861
3	0.5221	0.52366	0.5263	0.001437	0.5208	0.52318	0.5261	0.0017763	-0.0014	-0.00048	0.0003	0.00058271
10	0.5201	0.52387	0.5267	0.0020445	0.5168	0.52251	0.5274	0.003131	-0.0047	-0.00136	0.0008	0.002085
30	0.5177	0.52166	0.5241	0.0022965	0.5093	0.51734	0.5228	0.0051099	-0.0102	-0.00432	0.002	0.0051957
50	0.5207	0.52354	0.5261	0.0016071	0.5091	0.51713	0.5261	0.007129	-0.0146	-0.00641	0.0019	0.007426
100	0.5189	0.52324	0.529	0.0029357	0.4963	0.51187	0.5301	0.012881	-0.0239	-0.01137	0.0017	0.011977

Device Test: 17.10 UVLO|VLDO_RISE/VLDO/4.5/4.5/0/1000/4.5/500kHz//@VLDO_UVLO_RISE





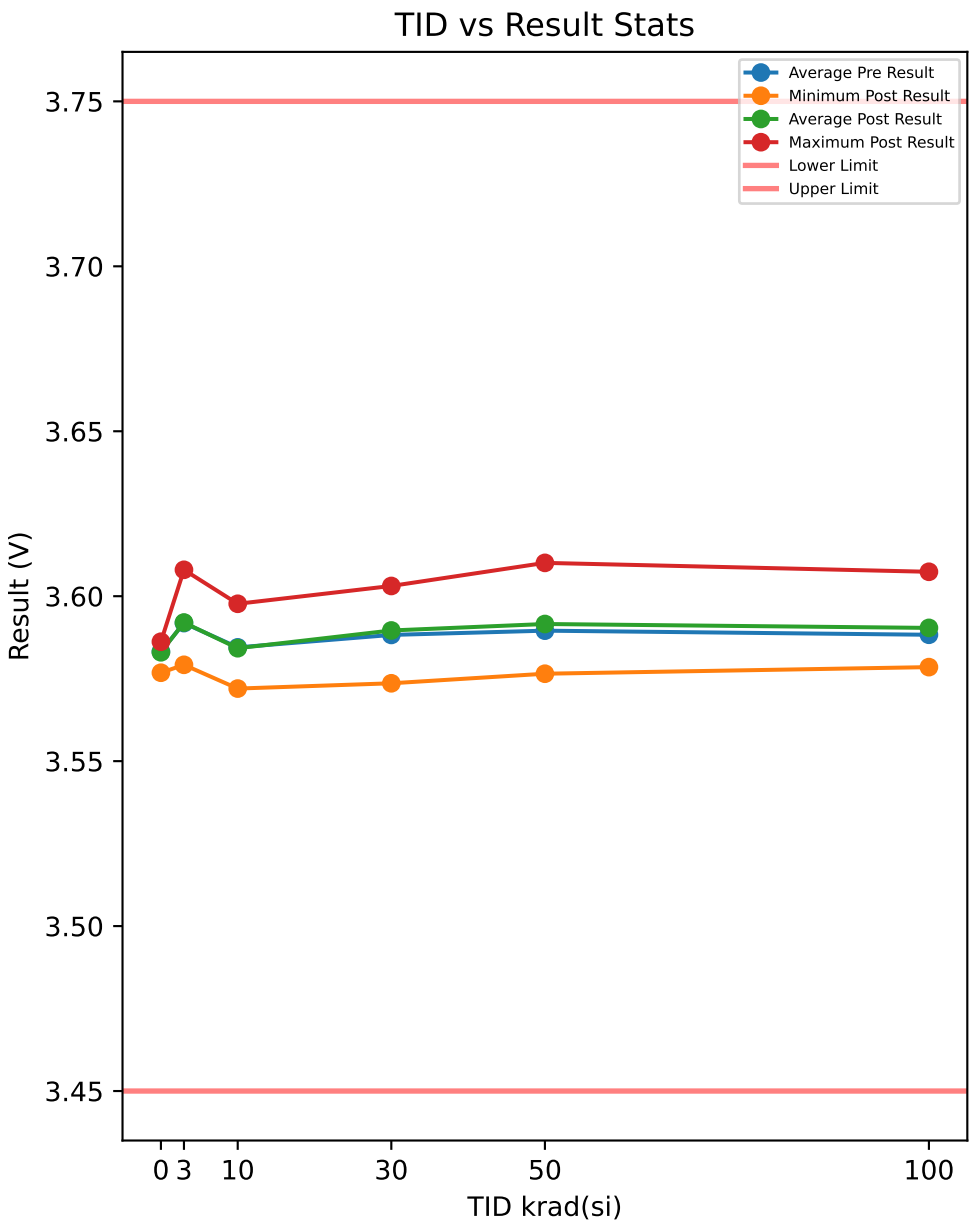
Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

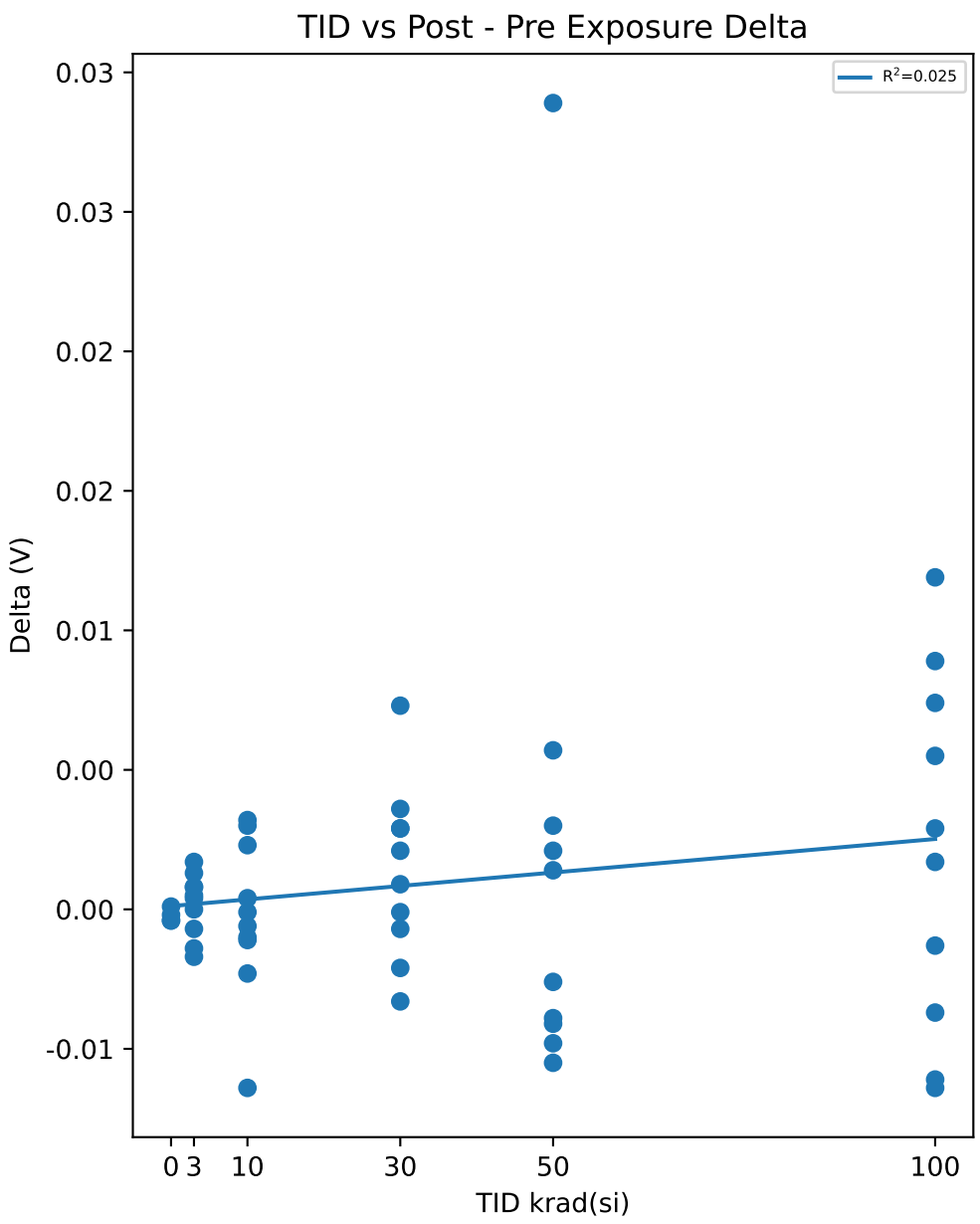
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	3.7882	3.788	-0.0002
2	3	HDR BIAS	3.7567	3.7564	-0.0003
3	3	HDR BIAS	3.7724	3.7712	-0.0012
4	3	HDR BIAS	3.767	3.7691	0.0021
5	3	HDR BIAS	3.7574	3.7571	-0.0003
6	3	HDR UNBIAS	3.7905	3.792	0.0015
7	3	HDR UNBIAS	3.7648	3.764	-0.0008
8	3	HDR UNBIAS	3.7736	3.7741	0.0005
9	3	HDR UNBIAS	3.7527	3.7499	-0.0028
10	3	HDR UNBIAS	3.7932	3.792	-0.0012
11	10	HDR BIAS	3.7727	3.7699	-0.0028
12	10	HDR BIAS	3.7478	3.7479	0.0001
13	10	HDR BIAS	3.7448	3.7436	-0.0012
14	10	HDR BIAS	3.768	3.7679	-0.0001
15	10	HDR BIAS	3.7518	3.7515	-0.0003
16	10	HDR UNBIAS	3.7698	3.7669	-0.0029
17	10	HDR UNBIAS	3.7605	3.7561	-0.0044
18	10	HDR UNBIAS	3.7727	3.7717	-0.001
19	10	HDR UNBIAS	3.7654	3.7637	-0.0017
20	10	HDR UNBIAS	3.7602	3.7613	0.0011
31	30	HDR BIAS	3.7532	3.7549	0.0017
32	30	HDR BIAS	3.7524	3.7463	-0.0061
33	30	HDR BIAS	3.7827	3.7833	0.0006
34	30	HDR BIAS	3.7723	3.7695	-0.0028
35	30	HDR BIAS	3.7608	3.7602	-0.0006
36	30	HDR UNBIAS	3.7627	3.7613	-0.0014
37	30	HDR UNBIAS	3.7723	3.7714	-0.0009
38	30	HDR UNBIAS	3.7799	3.7817	0.0018
39	30	HDR UNBIAS	3.7527	3.7511	-0.0016
40	30	HDR UNBIAS	3.7698	3.7697	-0.0001
41	50	HDR BIAS	3.7774	3.7617	-0.0157
42	50	HDR BIAS	3.7621	3.7698	0.0077
43	50	HDR BIAS	3.7654	3.7633	-0.0021
44	50	HDR BIAS	3.7724	3.7694	-0.003
45	50	HDR BIAS	3.7627	3.7611	-0.0016
46	50	HDR UNBIAS	3.7623	3.7651	0.0028
47	50	HDR UNBIAS	3.7705	3.7649	-0.0056
48	50	HDR UNBIAS	3.764	3.7669	0.0029
49	50	HDR UNBIAS	3.771	3.7699	-0.0011
50	50	HDR UNBIAS	3.7708	3.7798	0.009
51	100	HDR BIAS	3.7571	3.7505	-0.0066
52	100	HDR BIAS	3.7682	3.7663	-0.0019
53	100	HDR BIAS	3.7927	3.7842	-0.0085
54	100	HDR BIAS	3.759	3.7592	0.0002
55	100	HDR BIAS	3.7685	3.7608	-0.0077
56	100	HDR UNBIAS	3.7674	3.7747	0.0073
57	100	HDR UNBIAS	3.7696	3.7705	0.0009
58	100	HDR UNBIAS	3.7723	3.7676	-0.0047
59	100	HDR UNBIAS	3.7708	3.769	-0.0018
60	100	HDR UNBIAS	3.7777	3.776	-0.0017
91	0	CORRELATION	3.7683	3.7686	0.0003
92	0	CORRELATION	3.7737	3.7736	-0.0001
93	0	CORRELATION	3.7707	3.7705	-0.0002
94	0	CORRELATION	3.7655	3.7647	-0.0008

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.7655	3.7695	3.7737	0.0034886	3.7647	3.7694	3.7736	0.0037225	-0.0008	-0.0002	0.0003	0.00045461
3	3.7527	3.7717	3.7932	0.014728	3.7499	3.7714	3.792	0.015215	-0.0028	-0.00027	0.0021	0.0014048
10	3.7448	3.7614	3.7727	0.010222	3.7436	3.76	3.7717	0.0097929	-0.0044	-0.00132	0.0011	0.0016612
30	3.7524	3.7659	3.7827	0.011202	3.7463	3.7649	3.7833	0.012377	-0.0061	-0.00094	0.0018	0.0023191
50	3.7621	3.7679	3.7774	0.0052574	3.7611	3.7672	3.7798	0.0054783	-0.0157	-0.00067	0.009	0.0070481
100	3.7571	3.7703	3.7927	0.009884	3.7505	3.7679	3.7842	0.0095278	-0.0085	-0.00245	0.0073	0.0047263

Device Test: 17.11 UVLO|VLDO_FALL/VLDO/4.5/4.5/0/1000/4.5/500kHz//@VLDO_UVLO_FALL





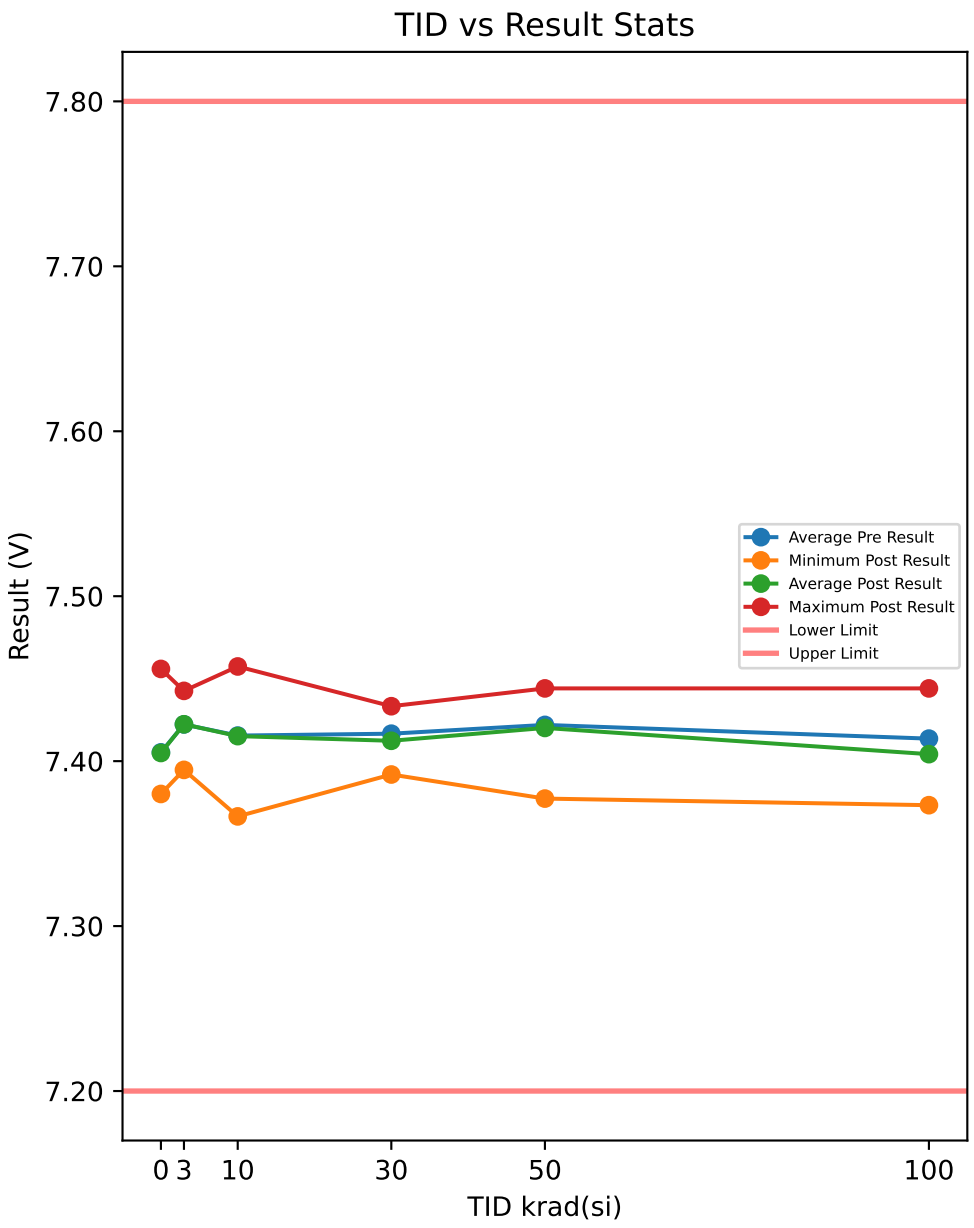
Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

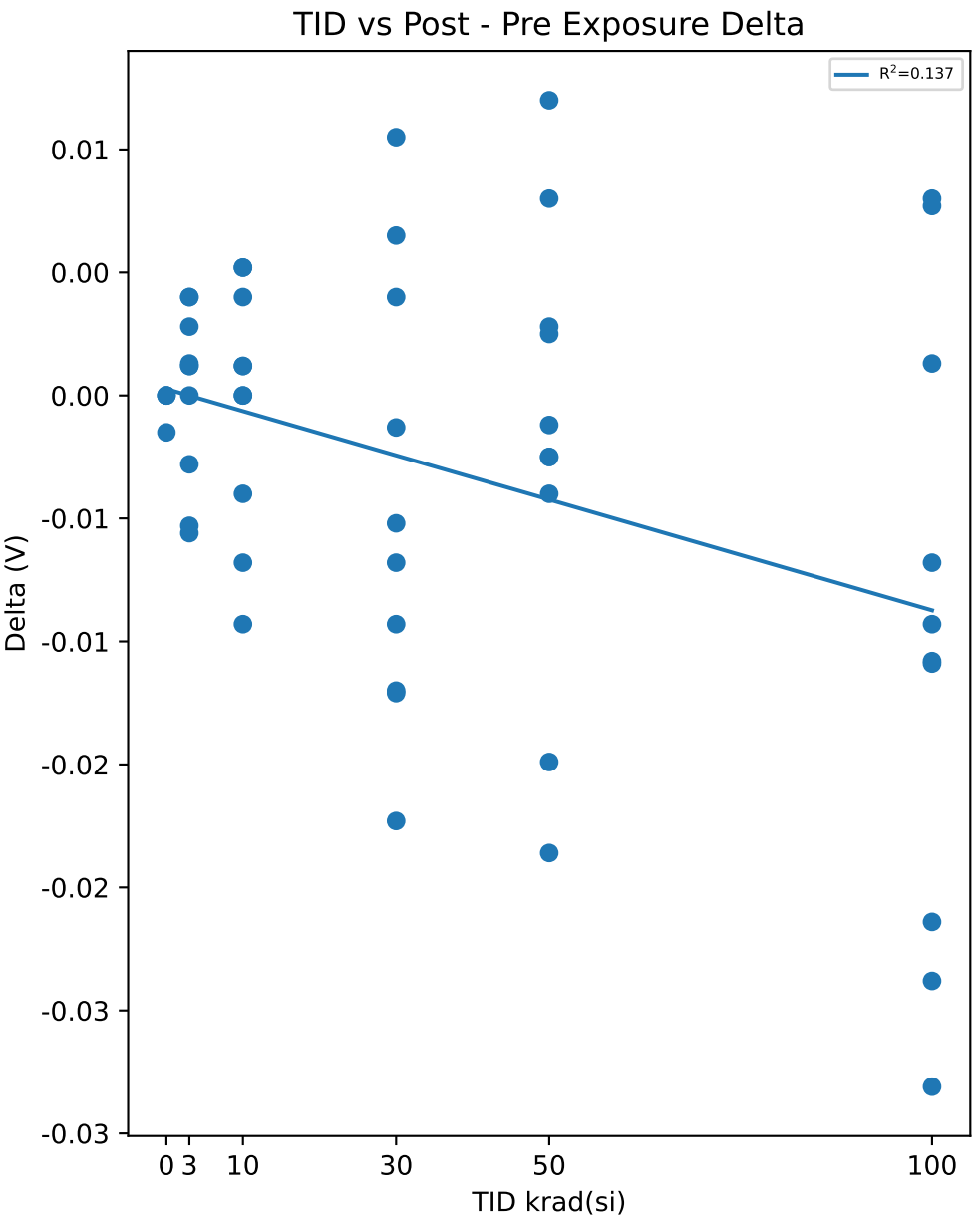
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	3.6075	3.608	0.0005
2	3	HDR BIAS	3.5988	3.5981	-0.0007
3	3	HDR BIAS	3.5894	3.5907	0.0013
4	3	HDR BIAS	3.5881	3.5864	-0.0017
5	3	HDR BIAS	3.5888	3.5896	0.0008
6	3	HDR UNBIAS	3.6003	3.6003	0
7	3	HDR UNBIAS	3.5775	3.5792	0.0017
8	3	HDR UNBIAS	3.5831	3.5817	-0.0014
9	3	HDR UNBIAS	3.5816	3.5824	0.0008
10	3	HDR UNBIAS	3.6034	3.6038	0.0004
11	10	HDR BIAS	3.5838	3.587	0.0032
12	10	HDR BIAS	3.581	3.5746	-0.0064
13	10	HDR BIAS	3.5772	3.5761	-0.0011
14	10	HDR BIAS	3.5922	3.5916	-0.0006
15	10	HDR BIAS	3.5716	3.572	0.0004
16	10	HDR UNBIAS	3.5897	3.5874	-0.0023
17	10	HDR UNBIAS	3.5825	3.5824	-0.0001
18	10	HDR UNBIAS	3.5891	3.5881	-0.001
19	10	HDR UNBIAS	3.5831	3.5854	0.0023
20	10	HDR UNBIAS	3.5947	3.5977	0.003
31	30	HDR BIAS	3.5925	3.5961	0.0036
32	30	HDR BIAS	3.5769	3.5736	-0.0033
33	30	HDR BIAS	3.5907	3.5936	0.0029
34	30	HDR BIAS	3.5847	3.584	-0.0007
35	30	HDR BIAS	3.5838	3.5817	-0.0021
36	30	HDR UNBIAS	3.5944	3.6017	0.0073
37	30	HDR UNBIAS	3.5965	3.5964	-0.0001
38	30	HDR UNBIAS	3.6022	3.6031	0.0009
39	30	HDR UNBIAS	3.5725	3.5754	0.0029
40	30	HDR UNBIAS	3.5884	3.5905	0.0021
41	50	HDR BIAS	3.5913	3.5874	-0.0039
42	50	HDR BIAS	3.5854	3.5828	-0.0026
43	50	HDR BIAS	3.5881	3.5895	0.0014
44	50	HDR BIAS	3.5797	3.6086	0.0289
45	50	HDR BIAS	3.5838	3.5783	-0.0055
46	50	HDR UNBIAS	3.5806	3.5765	-0.0041
47	50	HDR UNBIAS	3.6044	3.6101	0.0057
48	50	HDR UNBIAS	3.5847	3.5877	0.003
49	50	HDR UNBIAS	3.6034	3.5986	-0.0048
50	50	HDR UNBIAS	3.5941	3.5962	0.0021
51	100	HDR BIAS	3.5785	3.5814	0.0029
52	100	HDR BIAS	3.5869	3.5805	-0.0064
53	100	HDR BIAS	3.6	3.6074	0.0074
54	100	HDR BIAS	3.5807	3.5794	-0.0013
55	100	HDR BIAS	3.5822	3.5785	-0.0037
56	100	HDR UNBIAS	3.5772	3.5827	0.0055
57	100	HDR UNBIAS	3.5985	3.6074	0.0089
58	100	HDR UNBIAS	3.5897	3.6016	0.0119
59	100	HDR UNBIAS	3.5978	3.5995	0.0017
60	100	HDR UNBIAS	3.5916	3.5855	-0.0061
91	0	CORRELATION	3.5835	3.5836	0.0001
92	0	CORRELATION	3.5866	3.5862	-0.0004
93	0	CORRELATION	3.5856	3.5854	-0.0002
94	0	CORRELATION	3.5772	3.5768	-0.0004

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5772	3.5832	3.5866	0.0042193	3.5768	3.583	3.5862	0.004274	-0.0004	-0.000225	0.0001	0.00023629
3	3.5775	3.5918	3.6075	0.010083	3.5792	3.592	3.608	0.010012	-0.0017	0.00017	0.0017	0.0011216
10	3.5716	3.5845	3.5947	0.0070705	3.572	3.5842	3.5977	0.0080387	-0.0064	-0.00026	0.0032	0.002845
30	3.5725	3.5883	3.6022	0.00903	3.5736	3.5896	3.6031	0.010464	-0.0033	0.00135	0.0073	0.0030888
50	3.5797	3.5896	3.6044	0.0087505	3.5765	3.5916	3.6101	0.011648	-0.0055	0.00202	0.0289	0.010189
100	3.5772	3.5883	3.6	0.0085648	3.5785	3.5904	3.6074	0.01207	-0.0064	0.00208	0.0119	0.0063894

Device Test: 17.13 UVLO|PVIN_RISE/PVIN/4.5/4.5/0/1000/4.5/100kHz//@PVIN_UVLO_RISE_503X





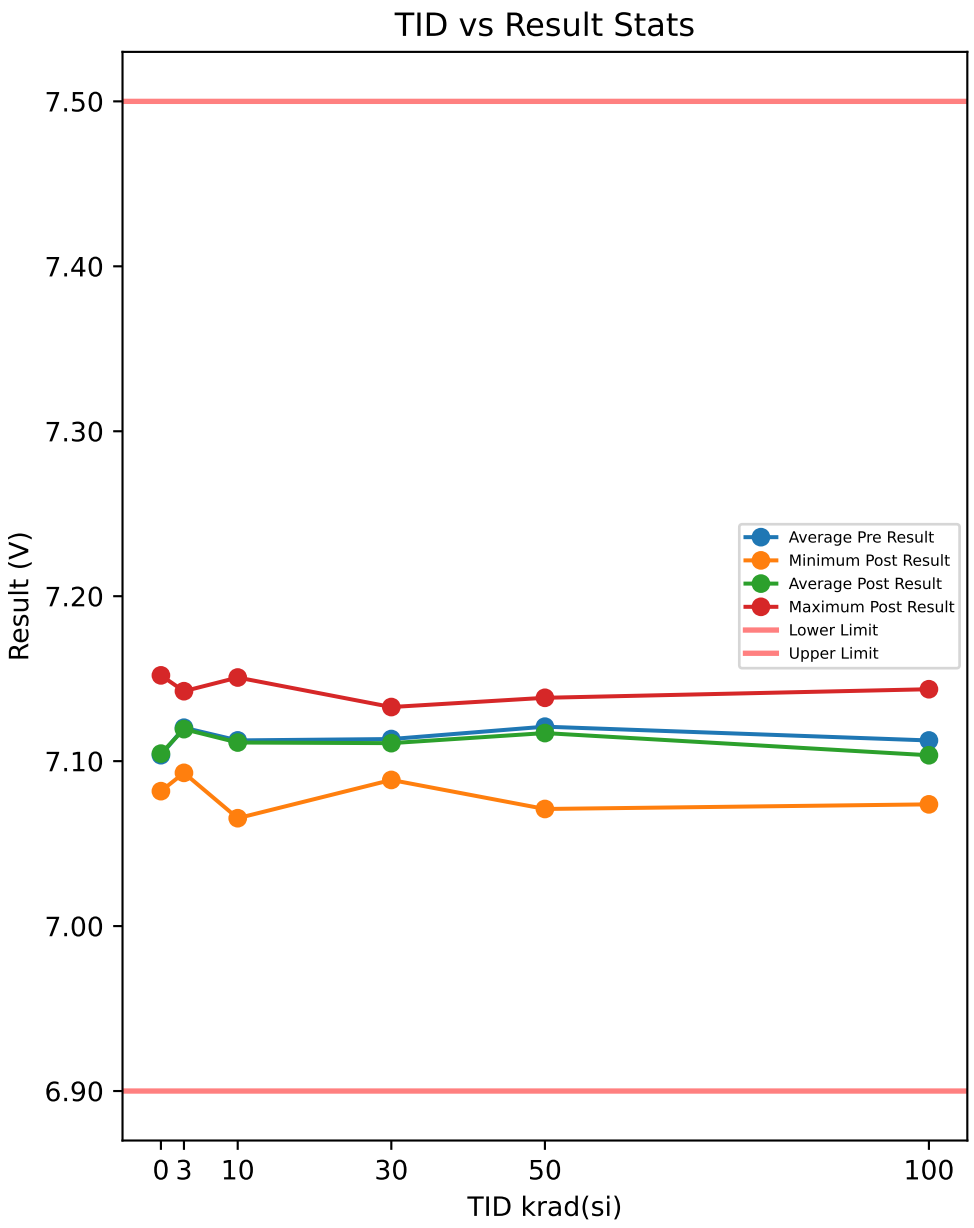
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

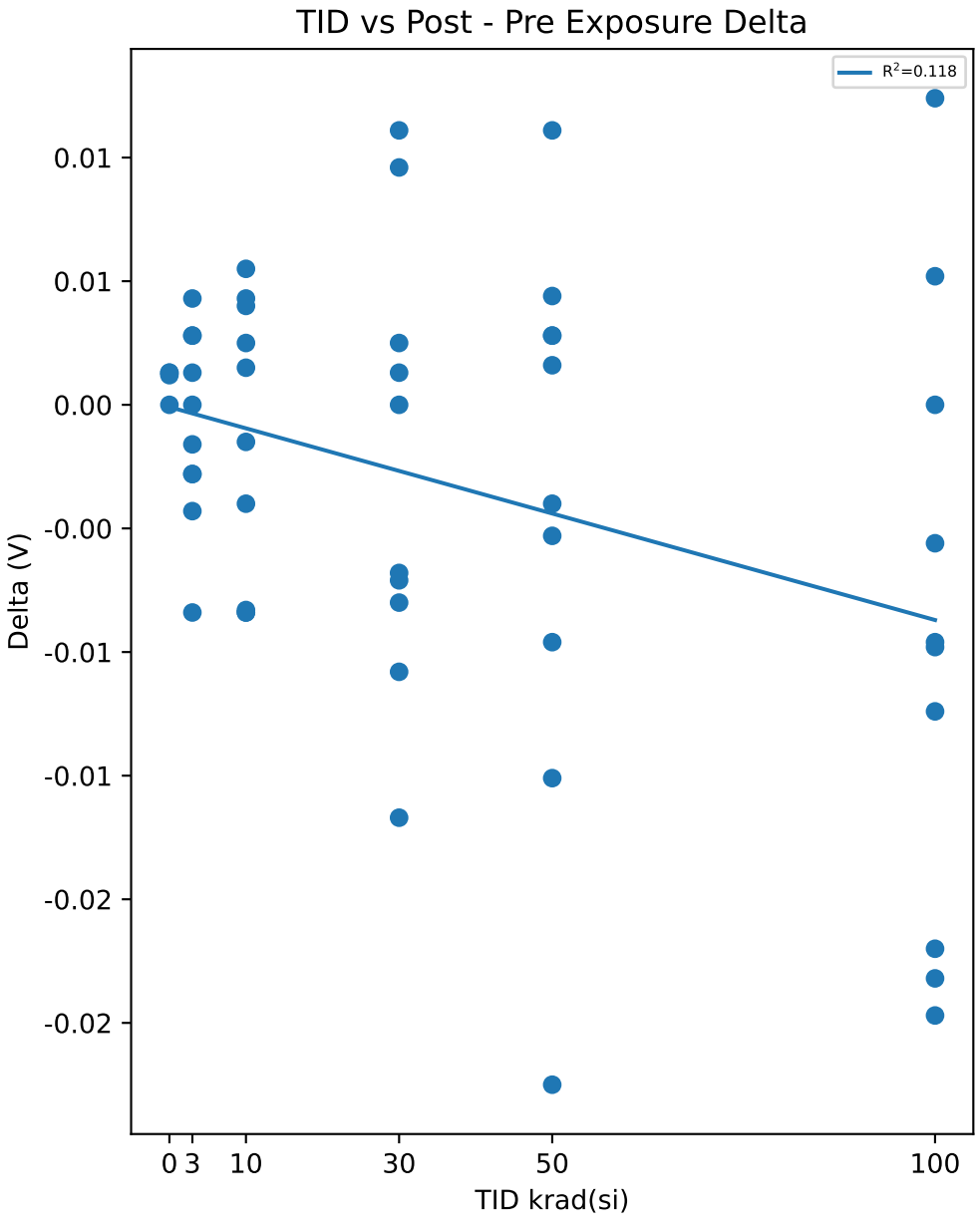
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.4373	7.4413	0.004
2	3	HDR BIAS	7.4333	7.4345	0.0012
3	3	HDR BIAS	7.4401	7.4345	-0.0056
4	3	HDR BIAS	7.4132	7.4132	0
5	3	HDR BIAS	7.4253	7.42	-0.0053
6	3	HDR UNBIAS	7.4454	7.4426	-0.0028
7	3	HDR UNBIAS	7.4027	7.4039	0.0012
8	3	HDR UNBIAS	7.3959	7.3987	0.0028
9	3	HDR UNBIAS	7.3934	7.3947	0.0013
10	3	HDR UNBIAS	7.4361	7.4401	0.004
11	10	HDR BIAS	7.4293	7.4345	0.0052
12	10	HDR BIAS	7.4055	7.4107	0.0052
13	10	HDR BIAS	7.3906	7.3866	-0.004
14	10	HDR BIAS	7.4361	7.4401	0.004
15	10	HDR BIAS	7.3733	7.3665	-0.0068
16	10	HDR UNBIAS	7.3987	7.3999	0.0012
17	10	HDR UNBIAS	7.4574	7.4574	0
18	10	HDR UNBIAS	7.4519	7.4426	-0.0093
19	10	HDR UNBIAS	7.4055	7.4067	0.0012
20	10	HDR UNBIAS	7.4067	7.4067	0
31	30	HDR BIAS	7.416	7.4092	-0.0068
32	30	HDR BIAS	7.4092	7.3919	-0.0173
33	30	HDR BIAS	7.4228	7.4107	-0.0121
34	30	HDR BIAS	7.4293	7.4333	0.004
35	30	HDR BIAS	7.4212	7.4092	-0.012
36	30	HDR UNBIAS	7.424	7.4305	0.0065
37	30	HDR UNBIAS	7.408	7.4067	-0.0013
38	30	HDR UNBIAS	7.4212	7.416	-0.0052
39	30	HDR UNBIAS	7.4015	7.412	0.0105
40	30	HDR UNBIAS	7.4132	7.4039	-0.0093
41	50	HDR BIAS	7.3919	7.3947	0.0028
42	50	HDR BIAS	7.4305	7.428	-0.0025
43	50	HDR BIAS	7.4426	7.4386	-0.004
44	50	HDR BIAS	7.4148	7.3999	-0.0149
45	50	HDR BIAS	7.3959	7.3773	-0.0186
46	50	HDR UNBIAS	7.4361	7.4441	0.008
47	50	HDR UNBIAS	7.4361	7.4386	0.0025
48	50	HDR UNBIAS	7.4345	7.4333	-0.0012
49	50	HDR UNBIAS	7.3987	7.4107	0.012
50	50	HDR UNBIAS	7.4386	7.4361	-0.0025
51	100	HDR BIAS	7.424	7.3959	-0.0281
52	100	HDR BIAS	7.3947	7.3733	-0.0214
53	100	HDR BIAS	7.4188	7.408	-0.0108
54	100	HDR BIAS	7.3999	7.3761	-0.0238
55	100	HDR BIAS	7.4148	7.4039	-0.0109
56	100	HDR UNBIAS	7.412	7.42	0.008
57	100	HDR UNBIAS	7.4067	7.3999	-0.0068
58	100	HDR UNBIAS	7.4015	7.4092	0.0077
59	100	HDR UNBIAS	7.4534	7.4441	-0.0093
60	100	HDR UNBIAS	7.4107	7.412	0.0013
91	0	CORRELATION	7.3879	7.3879	0
92	0	CORRELATION	7.4559	7.4559	0
93	0	CORRELATION	7.3974	7.3959	-0.0015
94	0	CORRELATION	7.3801	7.3801	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3801	7.4053	7.4559	0.034451	7.3801	7.4049	7.4559	0.034574	-0.0015	-0.000375	0	0.00075
3	7.3934	7.4223	7.4454	0.019422	7.3947	7.4223	7.4426	0.018658	-0.0056	8e-05	0.004	0.0035219
10	7.3733	7.4155	7.4574	0.027195	7.3665	7.4152	7.4574	0.028112	-0.0093	-0.00033	0.0052	0.0049509
30	7.4015	7.4166	7.4293	0.0085987	7.3919	7.4123	7.4333	0.012137	-0.0173	-0.0043	0.0105	0.0090355
50	7.3919	7.422	7.4426	0.019743	7.3773	7.4201	7.4441	0.022917	-0.0186	-0.00184	0.012	0.0093461
100	7.3947	7.4136	7.4534	0.016568	7.3733	7.4042	7.4441	0.020477	-0.0281	-0.00941	0.008	0.012568

Device Test: 17.14 UVLO|PVIN_FALL/PVIN/4.5/4.5/0/1000/4.5/100kHz//@PVIN_UVLO_FALL_503X





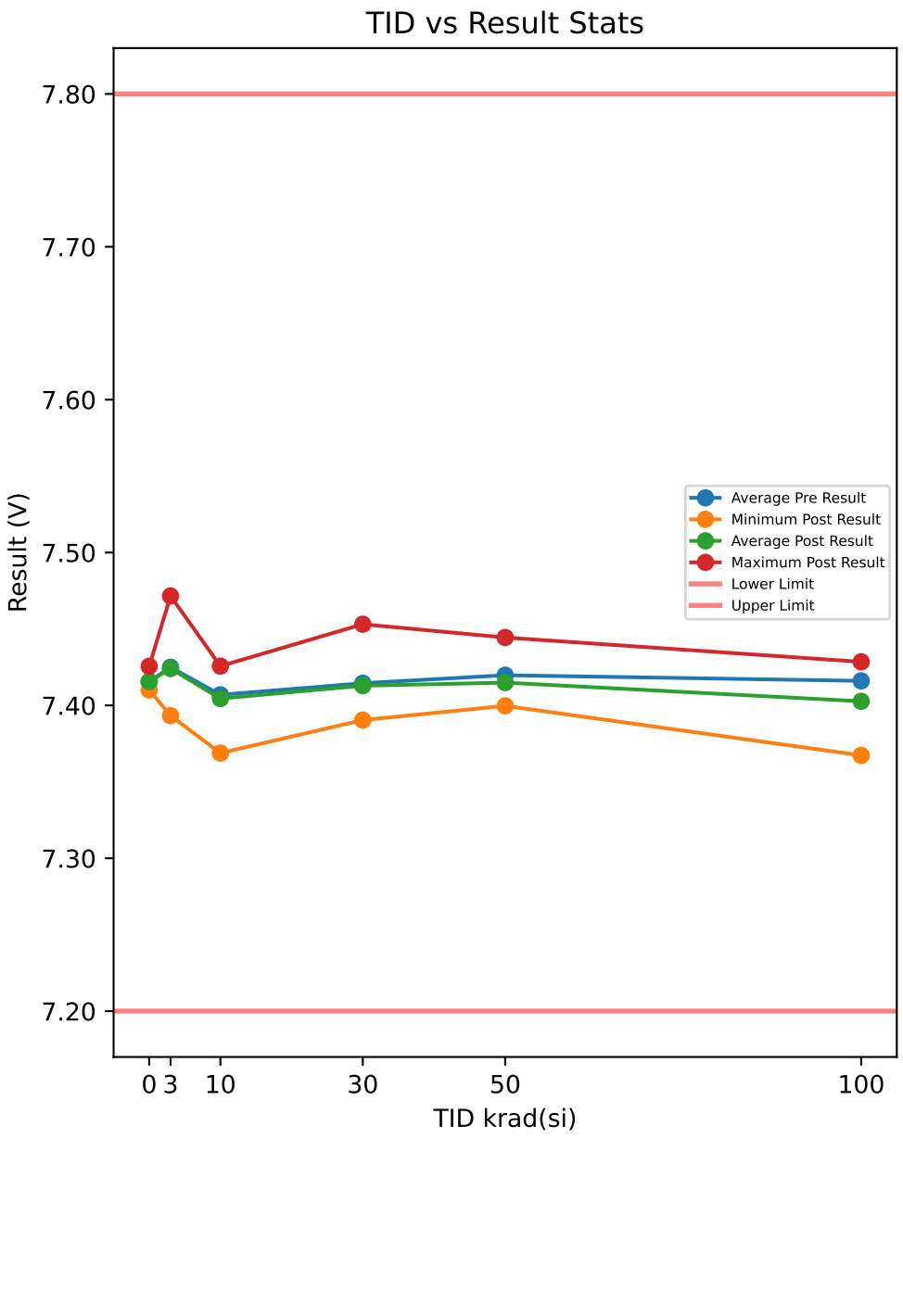
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

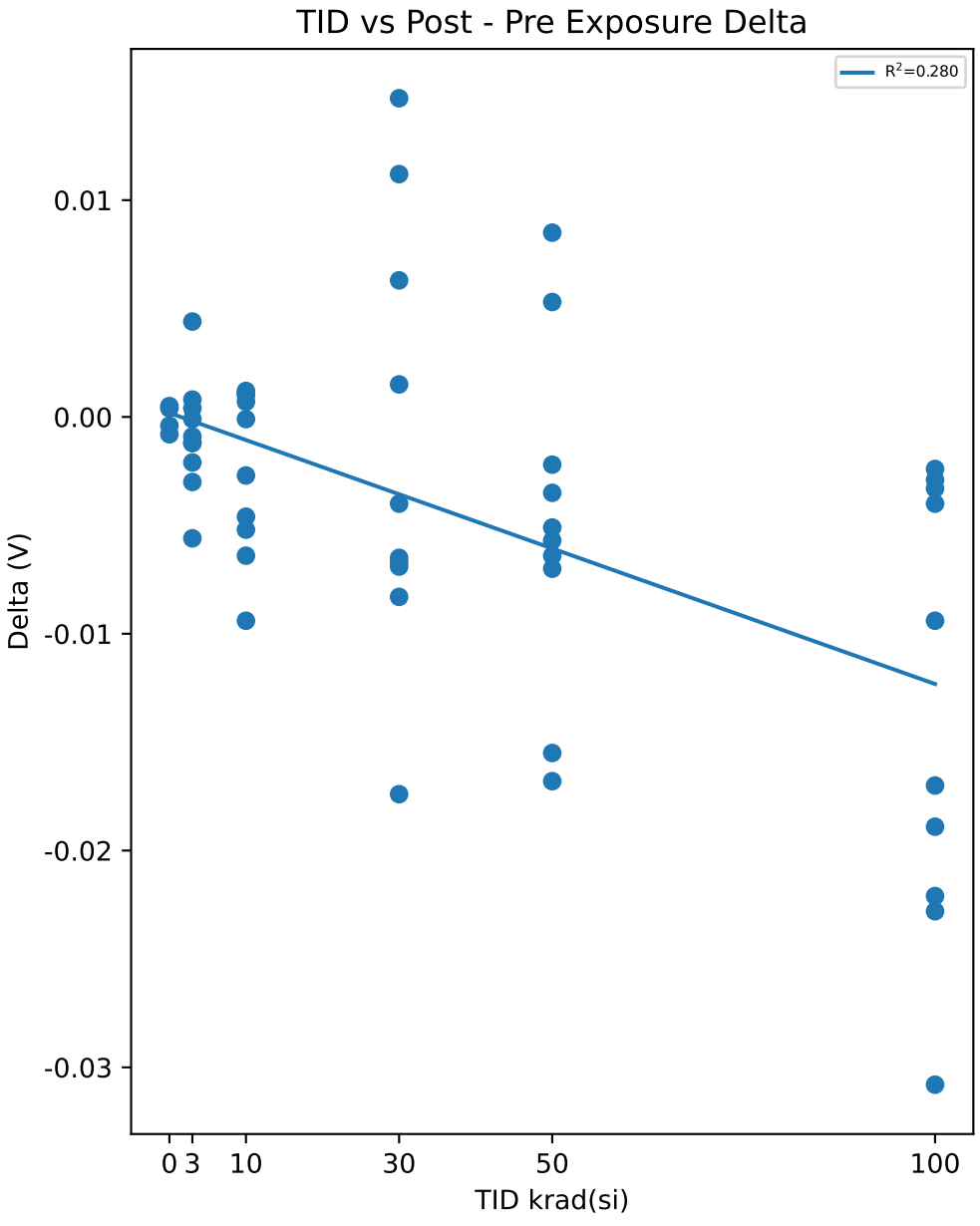
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.1384	7.1356	-0.0028
2	3	HDR BIAS	7.1272	7.1285	0.0013
3	3	HDR BIAS	7.1384	7.13	-0.0084
4	3	HDR BIAS	7.1109	7.1093	-0.0016
5	3	HDR BIAS	7.126	7.1217	-0.0043
6	3	HDR UNBIAS	7.1396	7.1424	0.0028
7	3	HDR UNBIAS	7.1038	7.1038	0
8	3	HDR UNBIAS	7.0957	7.0929	-0.0028
9	3	HDR UNBIAS	7.0914	7.0942	0.0028
10	3	HDR UNBIAS	7.1313	7.1356	0.0043
11	10	HDR BIAS	7.126	7.1285	0.0025
12	10	HDR BIAS	7.1038	7.1093	0.0055
13	10	HDR BIAS	7.0929	7.0846	-0.0083
14	10	HDR BIAS	7.1356	7.1396	0.004
15	10	HDR BIAS	7.0738	7.0654	-0.0084
16	10	HDR UNBIAS	7.0957	7.0942	-0.0015
17	10	HDR UNBIAS	7.1464	7.1507	0.0043
18	10	HDR UNBIAS	7.1452	7.1368	-0.0084
19	10	HDR UNBIAS	7.1038	7.1053	0.0015
20	10	HDR UNBIAS	7.1025	7.0985	-0.004
31	30	HDR BIAS	7.1149	7.1081	-0.0068
32	30	HDR BIAS	7.1053	7.0886	-0.0167
33	30	HDR BIAS	7.1189	7.1081	-0.0108
34	30	HDR BIAS	7.126	7.1285	0.0025
35	30	HDR BIAS	7.1189	7.1109	-0.008
36	30	HDR UNBIAS	7.1217	7.1328	0.0111
37	30	HDR UNBIAS	7.1013	7.1013	0
38	30	HDR UNBIAS	7.1136	7.1149	0.0013
39	30	HDR UNBIAS	7.1025	7.1121	0.0096
40	30	HDR UNBIAS	7.1109	7.1038	-0.0071
41	50	HDR BIAS	7.0914	7.0942	0.0028
42	50	HDR BIAS	7.1285	7.1232	-0.0053
43	50	HDR BIAS	7.1452	7.1356	-0.0096
44	50	HDR BIAS	7.1136	7.0985	-0.0151
45	50	HDR BIAS	7.0985	7.071	-0.0275
46	50	HDR UNBIAS	7.134	7.1384	0.0044
47	50	HDR UNBIAS	7.134	7.1356	0.0016
48	50	HDR UNBIAS	7.13	7.1328	0.0028
49	50	HDR UNBIAS	7.097	7.1081	0.0111
50	50	HDR UNBIAS	7.1368	7.1328	-0.004
51	100	HDR BIAS	7.1217	7.0997	-0.022
52	100	HDR BIAS	7.097	7.0738	-0.0232
53	100	HDR BIAS	7.1177	7.1081	-0.0096
54	100	HDR BIAS	7.0997	7.075	-0.0247
55	100	HDR BIAS	7.1136	7.1038	-0.0098
56	100	HDR UNBIAS	7.1109	7.1161	0.0052
57	100	HDR UNBIAS	7.1038	7.0914	-0.0124
58	100	HDR UNBIAS	7.0997	7.1121	0.0124
59	100	HDR UNBIAS	7.1492	7.1436	-0.0056
60	100	HDR UNBIAS	7.1121	7.1121	0
91	0	CORRELATION	7.0874	7.0874	0
92	0	CORRELATION	7.1507	7.152	0.0013
93	0	CORRELATION	7.0957	7.097	0.0013
94	0	CORRELATION	7.0806	7.0818	0.0012

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0806	7.1036	7.1507	0.032001	7.0818	7.1045	7.152	0.03225	0	0.00095	0.0013	0.00063509
3	7.0914	7.1203	7.1396	0.018348	7.0929	7.1194	7.1424	0.018065	-0.0084	-0.00087	0.0043	0.0038813
10	7.0738	7.1126	7.1464	0.024381	7.0654	7.1113	7.1507	0.027111	-0.0084	-0.00128	0.0055	0.0056285
30	7.1013	7.1134	7.126	0.0083501	7.0886	7.1109	7.1328	0.012747	-0.0167	-0.00249	0.0111	0.0089287
50	7.0914	7.1209	7.1452	0.019217	7.071	7.117	7.1384	0.022961	-0.0275	-0.00388	0.0111	0.011209
100	7.097	7.1125	7.1492	0.015297	7.0738	7.1036	7.1436	0.020524	-0.0247	-0.00897	0.0124	0.012391

Device Test: 17.16 UVLO|VIN_RISE/VIN/4.5/4.5/0/1000/4.5/100kHz//@VIN_UVLO_RISE_503X





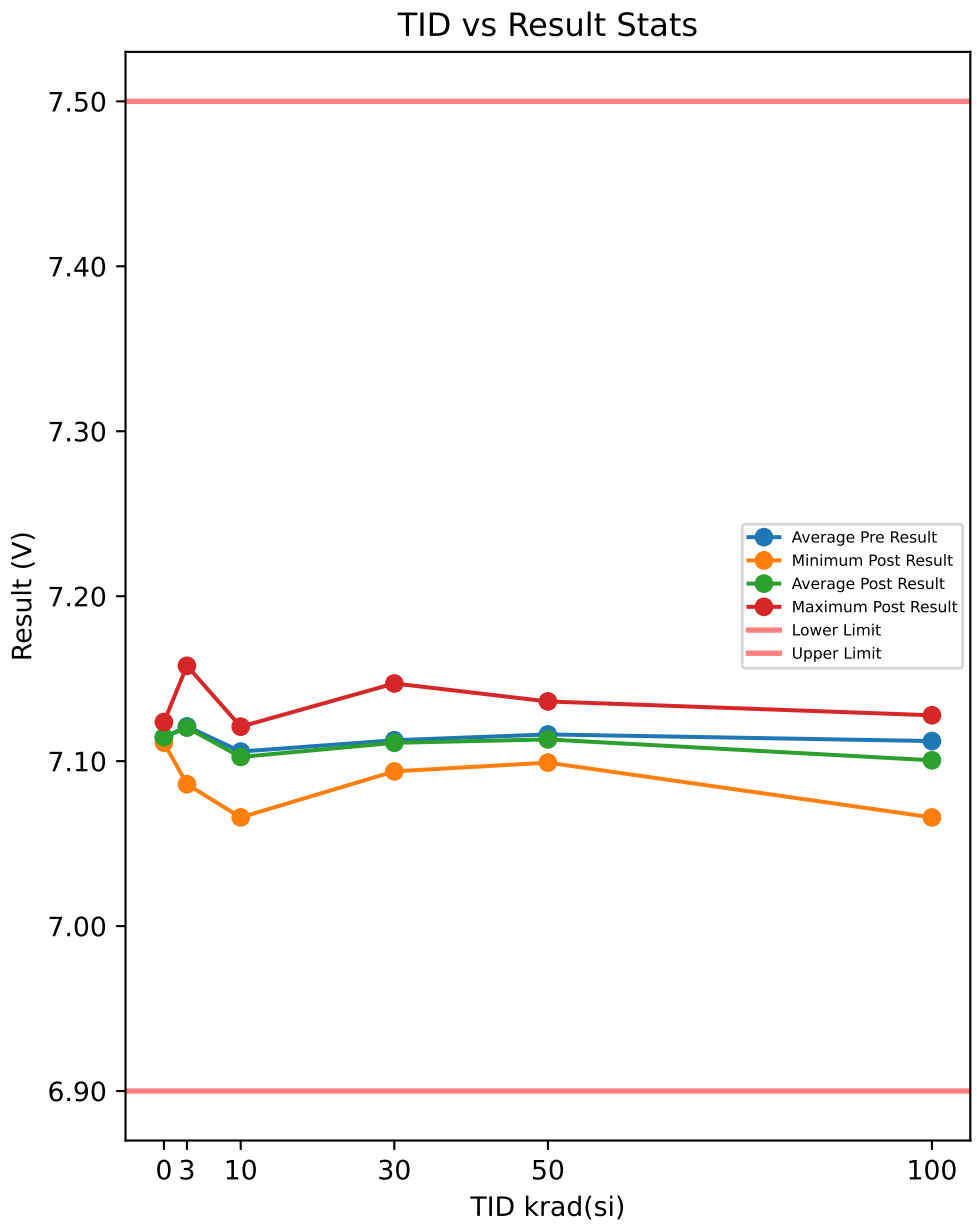
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

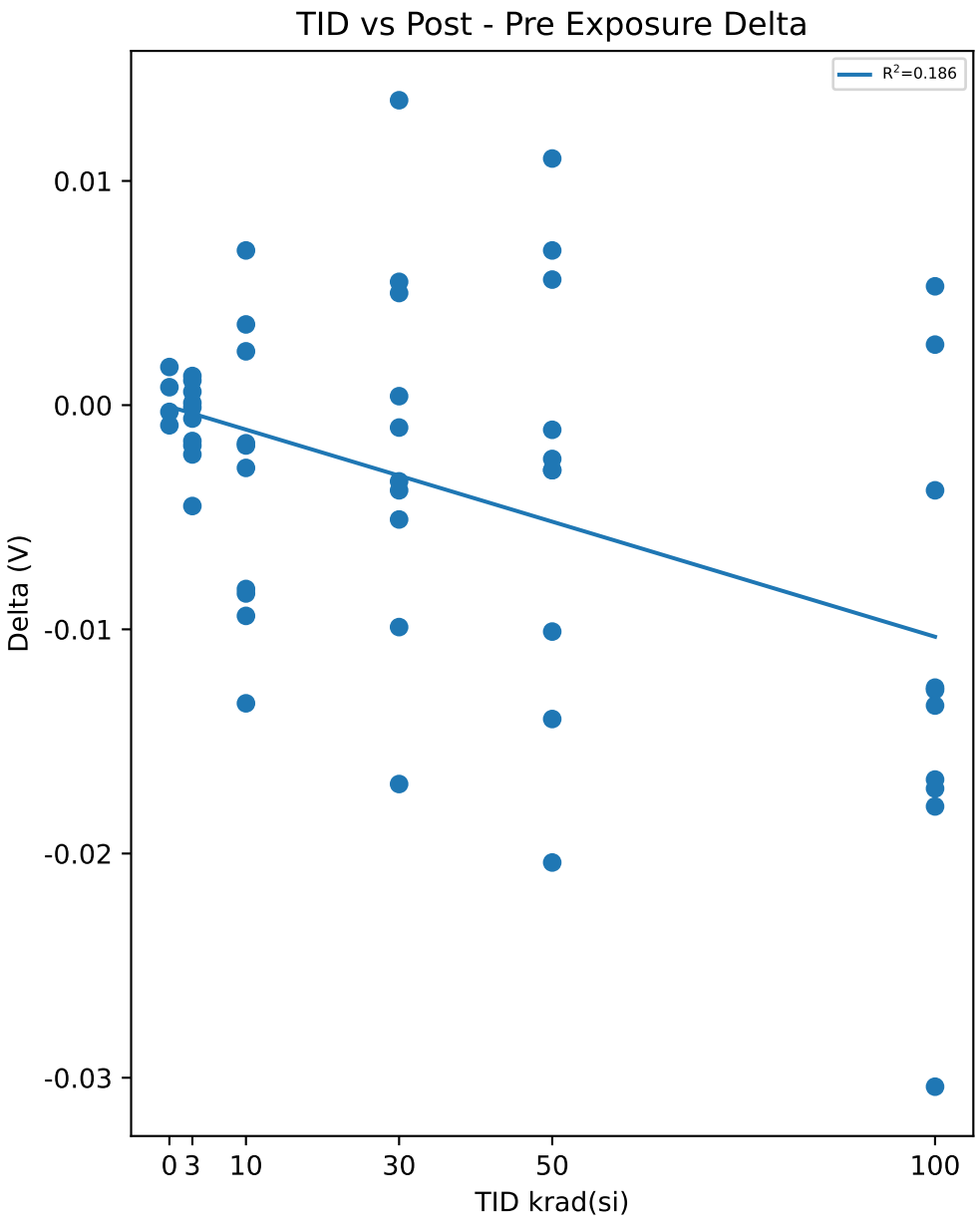
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.4203	7.4211	0.0008
2	3	HDR BIAS	7.4456	7.4444	-0.0012
3	3	HDR BIAS	7.4672	7.4716	0.0044
4	3	HDR BIAS	7.409	7.4069	-0.0021
5	3	HDR BIAS	7.406	7.4064	0.0004
6	3	HDR UNBIAS	7.4345	7.4344	-0.0001
7	3	HDR UNBIAS	7.4012	7.3982	-0.003
8	3	HDR UNBIAS	7.4353	7.4344	-0.0009
9	3	HDR UNBIAS	7.3945	7.3933	-0.0012
10	3	HDR UNBIAS	7.4359	7.4303	-0.0056
11	10	HDR BIAS	7.4259	7.4195	-0.0064
12	10	HDR BIAS	7.3689	7.3688	-0.0001
13	10	HDR BIAS	7.4118	7.4024	-0.0094
14	10	HDR BIAS	7.4184	7.4157	-0.0027
15	10	HDR BIAS	7.3904	7.3914	0.001
16	10	HDR UNBIAS	7.4134	7.4088	-0.0046
17	10	HDR UNBIAS	7.4088	7.4036	-0.0052
18	10	HDR UNBIAS	7.4148	7.416	0.0012
19	10	HDR UNBIAS	7.3918	7.3929	0.0011
20	10	HDR UNBIAS	7.425	7.4257	0.0007
31	30	HDR BIAS	7.3971	7.3904	-0.0067
32	30	HDR BIAS	7.42	7.416	-0.004
33	30	HDR BIAS	7.416	7.3986	-0.0174
34	30	HDR BIAS	7.4237	7.43	0.0063
35	30	HDR BIAS	7.42	7.4117	-0.0083
36	30	HDR UNBIAS	7.3957	7.3972	0.0015
37	30	HDR UNBIAS	7.4146	7.4077	-0.0069
38	30	HDR UNBIAS	7.4075	7.401	-0.0065
39	30	HDR UNBIAS	7.412	7.4232	0.0112
40	30	HDR UNBIAS	7.4384	7.4531	0.0147
41	50	HDR BIAS	7.4159	7.4089	-0.007
42	50	HDR BIAS	7.4117	7.406	-0.0057
43	50	HDR BIAS	7.42	7.4032	-0.0168
44	50	HDR BIAS	7.4019	7.3997	-0.0022
45	50	HDR BIAS	7.4288	7.4133	-0.0155
46	50	HDR UNBIAS	7.4221	7.4157	-0.0064
47	50	HDR UNBIAS	7.4359	7.4444	0.0085
48	50	HDR UNBIAS	7.4064	7.4013	-0.0051
49	50	HDR UNBIAS	7.4206	7.4171	-0.0035
50	50	HDR UNBIAS	7.4341	7.4394	0.0053
51	100	HDR BIAS	7.397	7.3742	-0.0228
52	100	HDR BIAS	7.3981	7.3673	-0.0308
53	100	HDR BIAS	7.4331	7.4161	-0.017
54	100	HDR BIAS	7.4132	7.4103	-0.0029
55	100	HDR BIAS	7.3984	7.3795	-0.0189
56	100	HDR UNBIAS	7.4075	7.4035	-0.004
57	100	HDR UNBIAS	7.4173	7.4149	-0.0024
58	100	HDR UNBIAS	7.4318	7.4285	-0.0033
59	100	HDR UNBIAS	7.4431	7.421	-0.0221
60	100	HDR UNBIAS	7.421	7.4116	-0.0094
91	0	CORRELATION	7.4156	7.4161	0.0005
92	0	CORRELATION	7.426	7.4256	-0.0004
93	0	CORRELATION	7.4109	7.4101	-0.0008
94	0	CORRELATION	7.41	7.4104	0.0004

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.41	7.4156	7.426	0.0073396	7.4101	7.4155	7.4256	0.0072464	-0.0008	-7.5e-05	0.0005	0.00062915
3	7.3945	7.4249	7.4672	0.022745	7.3933	7.4241	7.4716	0.023936	-0.0056	-0.00085	0.0044	0.002612
10	7.3689	7.4069	7.4259	0.017942	7.3688	7.4045	7.4257	0.016788	-0.0094	-0.00244	0.0012	0.0037922
30	7.3957	7.4145	7.4384	0.012605	7.3904	7.4129	7.4531	0.018713	-0.0174	-0.00161	0.0147	0.009888
50	7.4019	7.4197	7.4359	0.011212	7.3997	7.4149	7.4444	0.015444	-0.0168	-0.00484	0.0085	0.0078466
100	7.397	7.4161	7.4431	0.016243	7.3673	7.4027	7.4285	0.021266	-0.0308	-0.01336	-0.0024	0.010261

Device Test: 17.17 UVLO|VIN_FALL/VIN/4.5/4.5/0/1000/4.5/100kHz//@VIN_UVLO_FALL_503X





Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

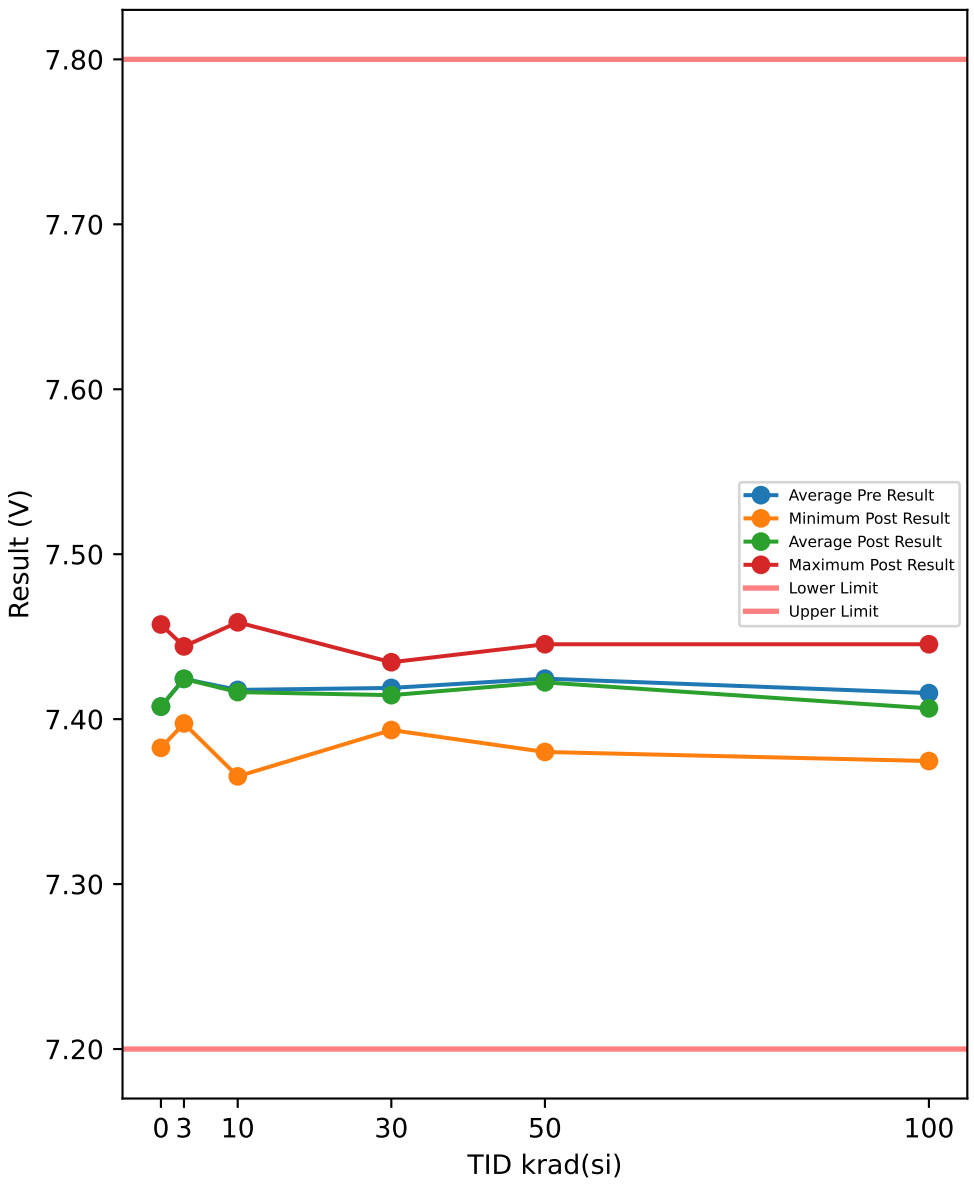
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.1081	7.1075	-0.0006
2	3	HDR BIAS	7.1386	7.1387	0.0001
3	3	HDR BIAS	7.16	7.1578	-0.0022
4	3	HDR BIAS	7.1088	7.1099	0.0011
5	3	HDR BIAS	7.1096	7.1078	-0.0018
6	3	HDR UNBIAS	7.1307	7.1306	-0.0001
7	3	HDR UNBIAS	7.1	7.0984	-0.0016
8	3	HDR UNBIAS	7.1361	7.1374	0.0013
9	3	HDR UNBIAS	7.0854	7.086	0.0006
10	3	HDR UNBIAS	7.1335	7.129	-0.0045
11	10	HDR BIAS	7.1293	7.1209	-0.0084
12	10	HDR BIAS	7.0676	7.0659	-0.0017
13	10	HDR BIAS	7.1116	7.1022	-0.0094
14	10	HDR BIAS	7.1143	7.1125	-0.0018
15	10	HDR BIAS	7.0923	7.0959	0.0036
16	10	HDR UNBIAS	7.1141	7.1059	-0.0082
17	10	HDR UNBIAS	7.1099	7.0966	-0.0133
18	10	HDR UNBIAS	7.1144	7.1168	0.0024
19	10	HDR UNBIAS	7.0809	7.0878	0.0069
20	10	HDR UNBIAS	7.1237	7.1209	-0.0028
31	30	HDR BIAS	7.0934	7.0938	0.0004
32	30	HDR BIAS	7.1159	7.1209	0.005
33	30	HDR BIAS	7.116	7.0991	-0.0169
34	30	HDR BIAS	7.1247	7.1237	-0.001
35	30	HDR BIAS	7.1143	7.1044	-0.0099
36	30	HDR UNBIAS	7.101	7.0959	-0.0051
37	30	HDR UNBIAS	7.1144	7.1106	-0.0038
38	30	HDR UNBIAS	7.1034	7.1	-0.0034
39	30	HDR UNBIAS	7.1101	7.1156	0.0055
40	30	HDR UNBIAS	7.1335	7.1471	0.0136
41	50	HDR BIAS	7.1002	7.0991	-0.0011
42	50	HDR BIAS	7.116	7.1059	-0.0101
43	50	HDR BIAS	7.1156	7.1016	-0.014
44	50	HDR BIAS	7.1055	7.1031	-0.0024
45	50	HDR BIAS	7.1307	7.1103	-0.0204
46	50	HDR UNBIAS	7.1222	7.1193	-0.0029
47	50	HDR UNBIAS	7.1249	7.1359	0.011
48	50	HDR UNBIAS	7.106	7.1031	-0.0029
49	50	HDR UNBIAS	7.1116	7.1172	0.0056
50	50	HDR UNBIAS	7.1293	7.1362	0.0069
51	100	HDR BIAS	7.0907	7.0728	-0.0179
52	100	HDR BIAS	7.0963	7.0659	-0.0304
53	100	HDR BIAS	7.1265	7.1131	-0.0134
54	100	HDR BIAS	7.1157	7.1031	-0.0126
55	100	HDR BIAS	7.0981	7.081	-0.0171
56	100	HDR UNBIAS	7.099	7.1043	0.0053
57	100	HDR UNBIAS	7.1157	7.1184	0.0027
58	100	HDR UNBIAS	7.1235	7.1197	-0.0038
59	100	HDR UNBIAS	7.1405	7.1278	-0.0127
60	100	HDR UNBIAS	7.1157	7.099	-0.0167
91	0	CORRELATION	7.1099	7.1116	0.0017
92	0	CORRELATION	7.1229	7.1237	0.0008
93	0	CORRELATION	7.1125	7.1116	-0.0009
94	0	CORRELATION	7.1115	7.1112	-0.0003

Test Statistics (V)

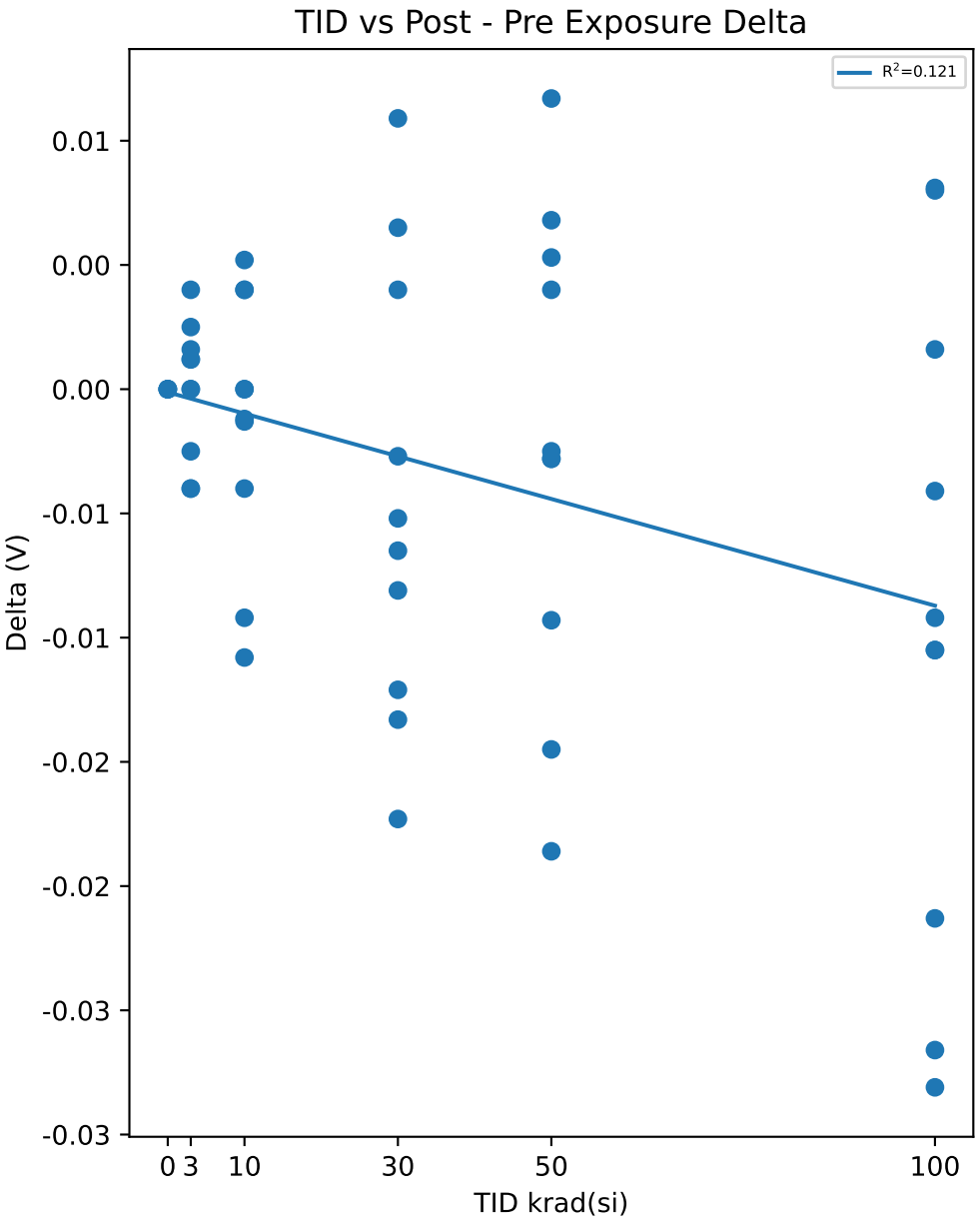
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1099	7.1142	7.1229	0.005898	7.1112	7.1145	7.1237	0.0061196	-0.0009	0.000325	0.0017	0.0011558
3	7.0854	7.1211	7.16	0.022268	7.086	7.1203	7.1578	0.021867	-0.0045	-0.00077	0.0013	0.0017827
10	7.0676	7.1058	7.1293	0.019436	7.0659	7.1025	7.1209	0.017086	-0.0133	-0.00327	0.0069	0.0064672
30	7.0934	7.1127	7.1335	0.011575	7.0938	7.1111	7.1471	0.016377	-0.0169	-0.00156	0.0136	0.0085158
50	7.1002	7.1162	7.1307	0.010486	7.0991	7.1132	7.1362	0.01373	-0.0204	-0.00303	0.011	0.0096961
100	7.0907	7.1122	7.1405	0.015839	7.0659	7.1005	7.1278	0.020979	-0.0304	-0.01166	0.0053	0.010571

Device Test: 17.19 UVLO|PVIN_RISE/PVIN/4.5/4.5/0/1000/4.5/500kHz//@PVIN_UVLO_RISE_503X

TID vs Result Stats



TID vs Post - Pre Exposure Delta



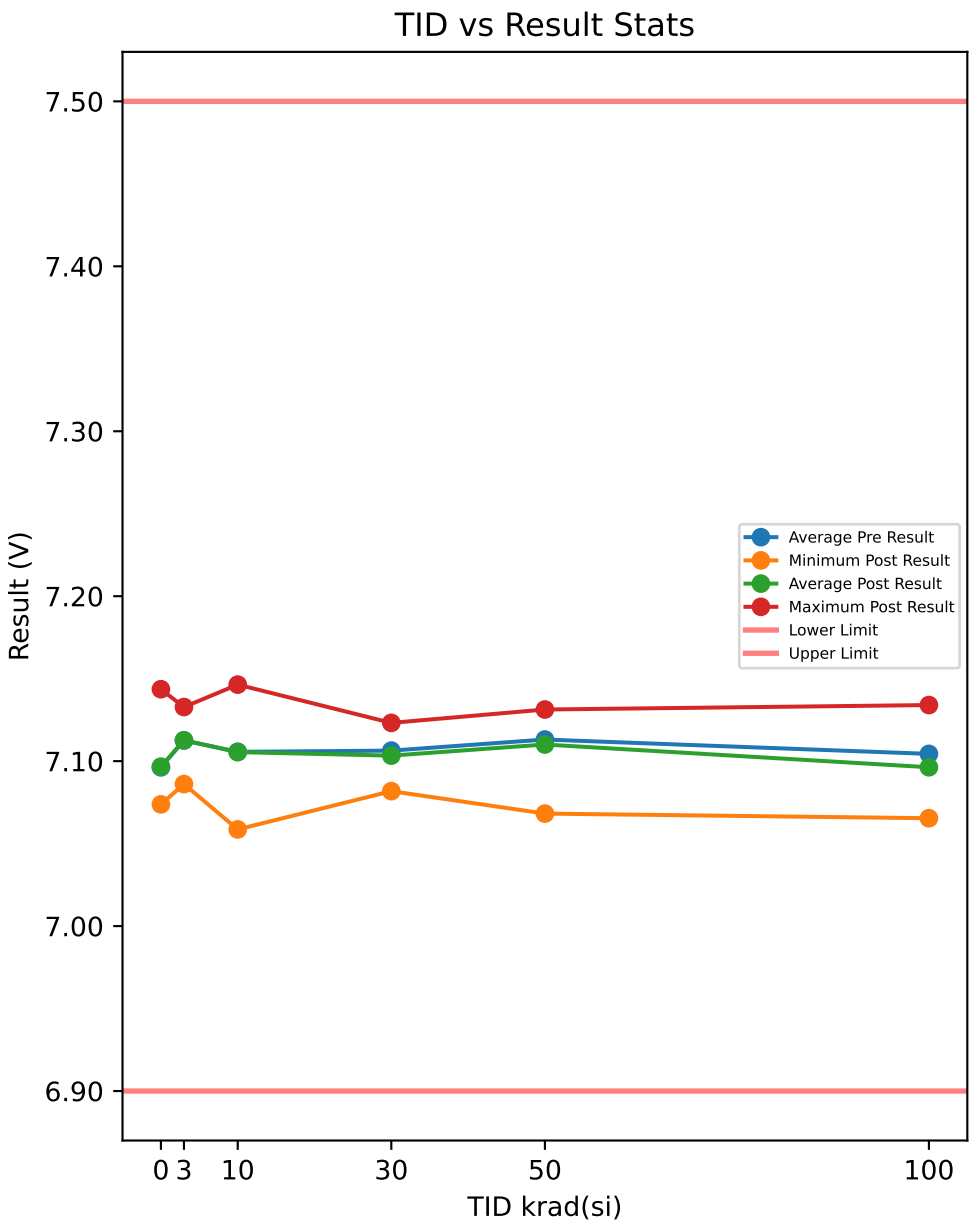
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

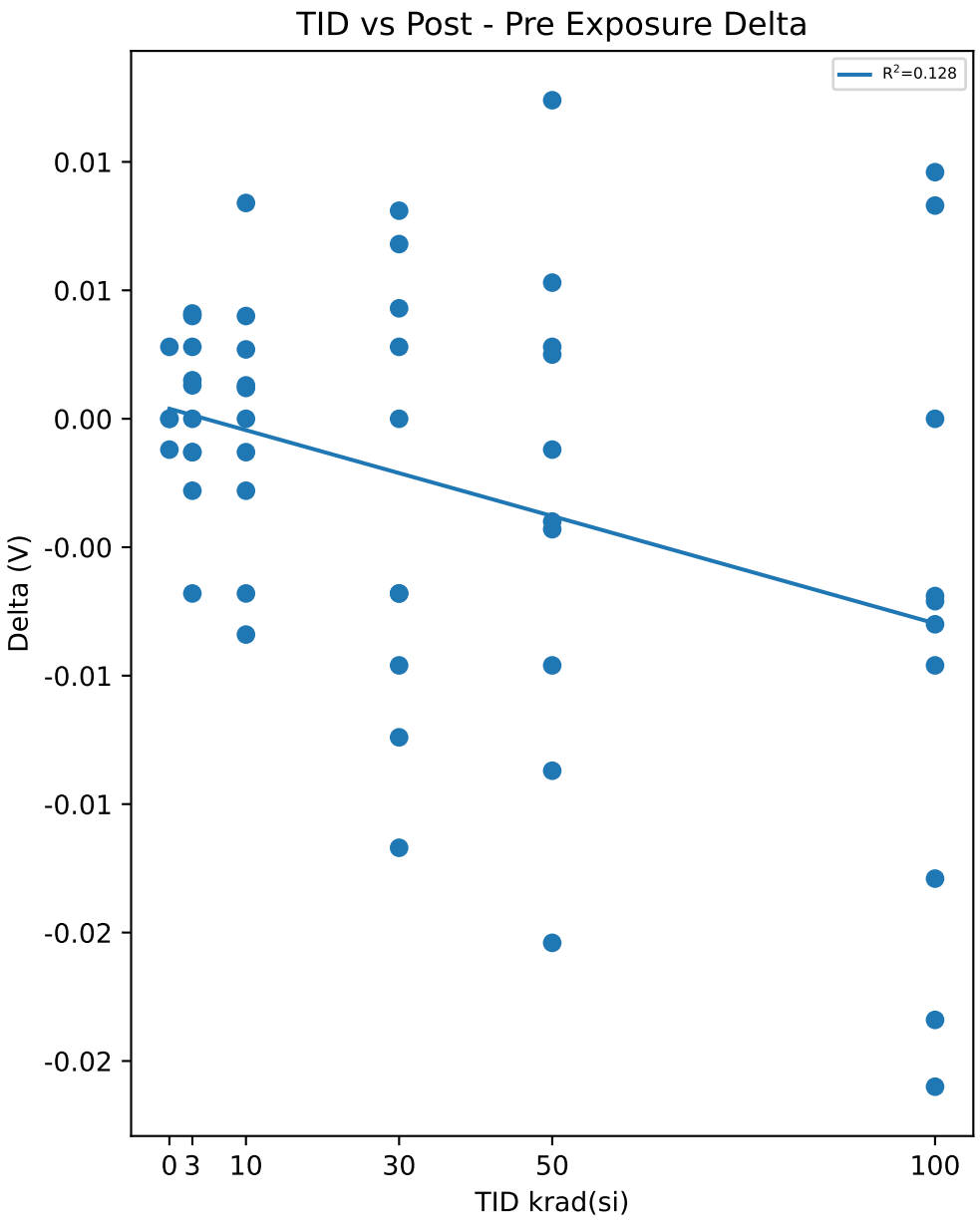
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.4401	7.4413	0.0012
2	3	HDR BIAS	7.4345	7.4361	0.0016
3	3	HDR BIAS	7.4413	7.4373	-0.004
4	3	HDR BIAS	7.4148	7.416	0.0012
5	3	HDR BIAS	7.428	7.424	-0.004
6	3	HDR UNBIAS	7.4466	7.4441	-0.0025
7	3	HDR UNBIAS	7.4067	7.4067	0
8	3	HDR UNBIAS	7.3974	7.3999	0.0025
9	3	HDR UNBIAS	7.3974	7.3974	0
10	3	HDR UNBIAS	7.4373	7.4413	0.004
11	10	HDR BIAS	7.4321	7.4373	0.0052
12	10	HDR BIAS	7.4092	7.4132	0.004
13	10	HDR BIAS	7.3934	7.3894	-0.004
14	10	HDR BIAS	7.4386	7.4426	0.004
15	10	HDR BIAS	7.3761	7.3653	-0.0108
16	10	HDR UNBIAS	7.3974	7.3974	0
17	10	HDR UNBIAS	7.4599	7.4587	-0.0012
18	10	HDR UNBIAS	7.4546	7.4454	-0.0092
19	10	HDR UNBIAS	7.408	7.408	0
20	10	HDR UNBIAS	7.408	7.4067	-0.0013
31	30	HDR BIAS	7.4188	7.4107	-0.0081
32	30	HDR BIAS	7.4107	7.3934	-0.0173
33	30	HDR BIAS	7.4253	7.4132	-0.0121
34	30	HDR BIAS	7.4305	7.4345	0.004
35	30	HDR BIAS	7.4253	7.412	-0.0133
36	30	HDR UNBIAS	7.428	7.4345	0.0065
37	30	HDR UNBIAS	7.4107	7.408	-0.0027
38	30	HDR UNBIAS	7.424	7.4188	-0.0052
39	30	HDR UNBIAS	7.4039	7.4148	0.0109
40	30	HDR UNBIAS	7.412	7.4055	-0.0065
41	50	HDR BIAS	7.3906	7.3974	0.0068
42	50	HDR BIAS	7.4321	7.4293	-0.0028
43	50	HDR BIAS	7.4494	7.4401	-0.0093
44	50	HDR BIAS	7.4172	7.4027	-0.0145
45	50	HDR BIAS	7.3987	7.3801	-0.0186
46	50	HDR UNBIAS	7.4401	7.4454	0.0053
47	50	HDR UNBIAS	7.4373	7.4413	0.004
48	50	HDR UNBIAS	7.4386	7.4361	-0.0025
49	50	HDR UNBIAS	7.4015	7.4132	0.0117
50	50	HDR UNBIAS	7.4401	7.4373	-0.0028
51	100	HDR BIAS	7.4268	7.3987	-0.0281
52	100	HDR BIAS	7.3959	7.3746	-0.0213
53	100	HDR BIAS	7.4212	7.4107	-0.0105
54	100	HDR BIAS	7.4039	7.3773	-0.0266
55	100	HDR BIAS	7.4172	7.4067	-0.0105
56	100	HDR UNBIAS	7.4132	7.4212	0.008
57	100	HDR UNBIAS	7.408	7.4039	-0.0041
58	100	HDR UNBIAS	7.4039	7.412	0.0081
59	100	HDR UNBIAS	7.4546	7.4454	-0.0092
60	100	HDR UNBIAS	7.4132	7.4148	0.0016
91	0	CORRELATION	7.3906	7.3906	0
92	0	CORRELATION	7.4574	7.4574	0
93	0	CORRELATION	7.3999	7.3999	0
94	0	CORRELATION	7.3826	7.3826	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3826	7.4076	7.4574	0.033928	7.3826	7.4076	7.4574	0.033928	0	0	0	0
3	7.3974	7.4244	7.4466	0.018767	7.3974	7.4244	7.4441	0.018184	-0.004	0	0.004	0.0027068
10	7.3761	7.4177	7.4599	0.027447	7.3653	7.4164	7.4587	0.029116	-0.0108	-0.00133	0.0052	0.005393
30	7.4039	7.4189	7.4305	0.0090209	7.3934	7.4145	7.4345	0.012514	-0.0173	-0.00438	0.0109	0.0091287
50	7.3906	7.4246	7.4494	0.020881	7.3801	7.4223	7.4454	0.022469	-0.0186	-0.00227	0.0117	0.0096628
100	7.3959	7.4158	7.4546	0.016368	7.3746	7.4065	7.4454	0.020505	-0.0281	-0.00926	0.0081	0.013113

Device Test: 17.20 UVLO|PVIN_FALL/PVIN/4.5/4.5/0/1000/4.5/500kHz//@PVIN_UVLO_FALL_503X





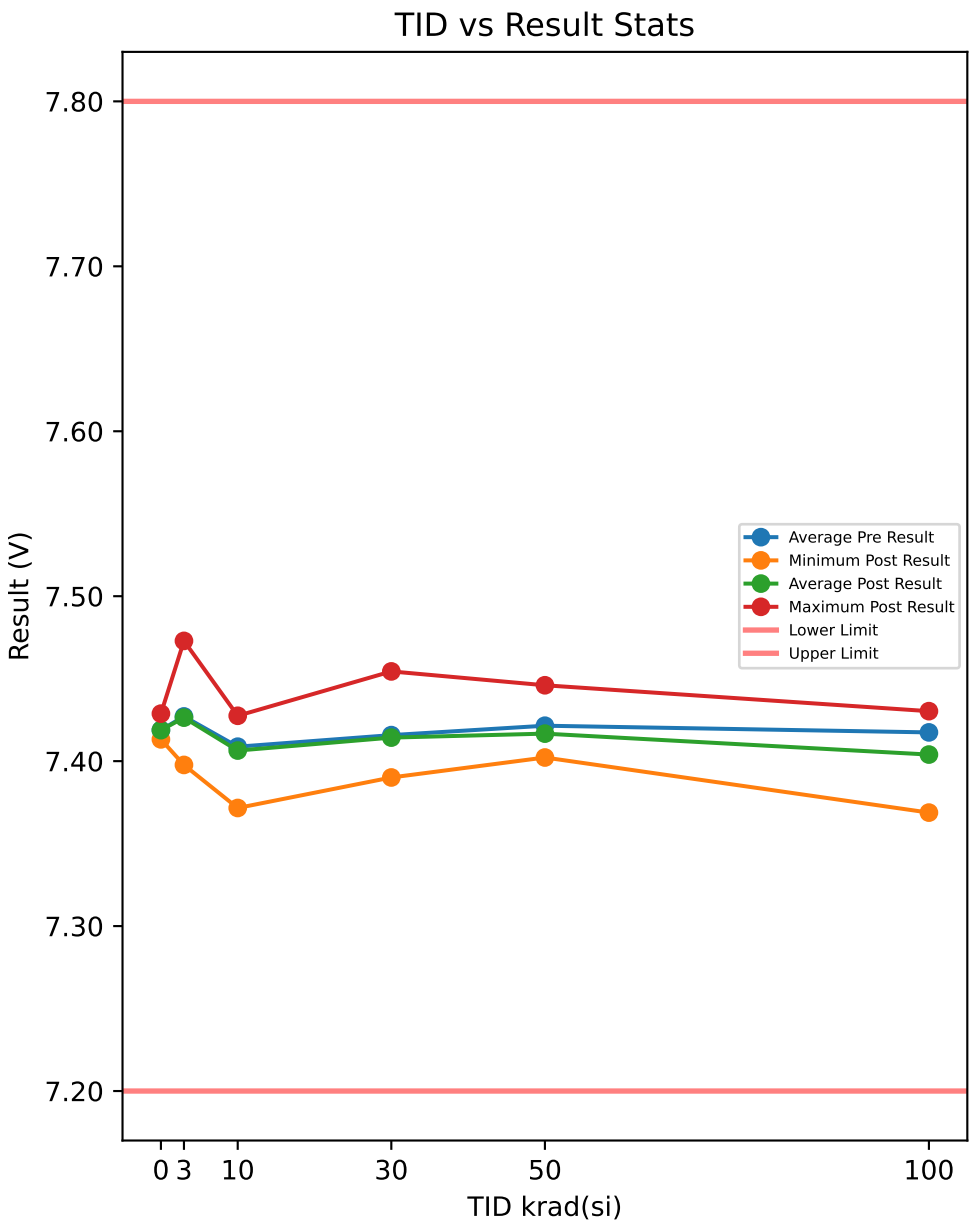
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

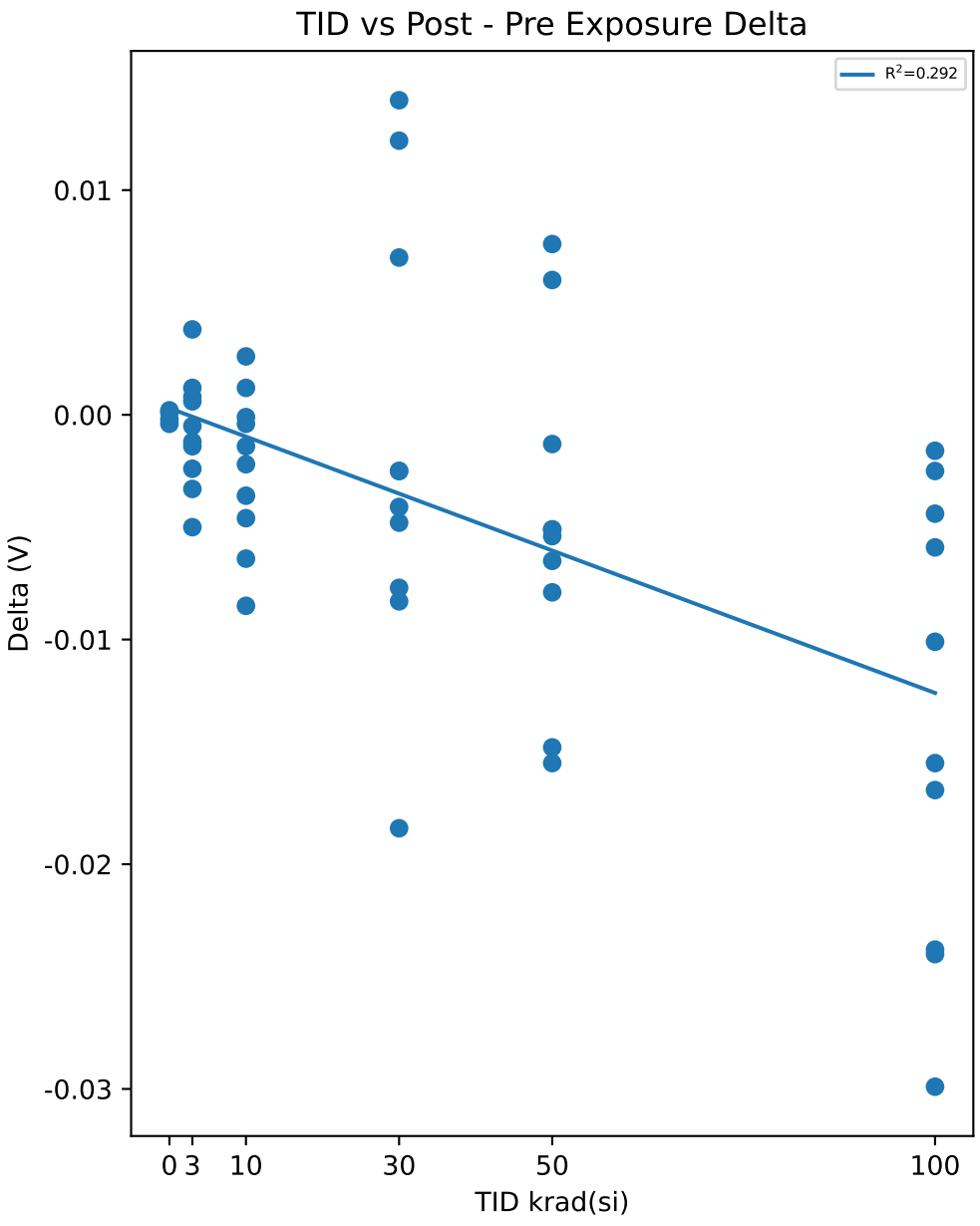
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.13	7.13	0
2	3	HDR BIAS	7.1204	7.1245	0.0041
3	3	HDR BIAS	7.1285	7.1217	-0.0068
4	3	HDR BIAS	7.1038	7.1025	-0.0013
5	3	HDR BIAS	7.1149	7.1121	-0.0028
6	3	HDR UNBIAS	7.1313	7.1328	0.0015
7	3	HDR UNBIAS	7.0957	7.097	0.0013
8	3	HDR UNBIAS	7.0901	7.0929	0.0028
9	3	HDR UNBIAS	7.0874	7.0861	-0.0013
10	3	HDR UNBIAS	7.1232	7.1272	0.004
11	10	HDR BIAS	7.1161	7.1245	0.0084
12	10	HDR BIAS	7.0957	7.0997	0.004
13	10	HDR BIAS	7.0818	7.079	-0.0028
14	10	HDR BIAS	7.1272	7.1285	0.0013
15	10	HDR BIAS	7.0654	7.0586	-0.0068
16	10	HDR UNBIAS	7.0874	7.0886	0.0012
17	10	HDR UNBIAS	7.1464	7.1464	0
18	10	HDR UNBIAS	7.1424	7.134	-0.0084
19	10	HDR UNBIAS	7.097	7.0997	0.0027
20	10	HDR UNBIAS	7.097	7.0957	-0.0013
31	30	HDR BIAS	7.1053	7.0985	-0.0068
32	30	HDR BIAS	7.0985	7.0818	-0.0167
33	30	HDR BIAS	7.1121	7.0997	-0.0124
34	30	HDR BIAS	7.1189	7.1232	0.0043
35	30	HDR BIAS	7.1121	7.1025	-0.0096
36	30	HDR UNBIAS	7.1149	7.1217	0.0068
37	30	HDR UNBIAS	7.0957	7.0957	0
38	30	HDR UNBIAS	7.1081	7.1109	0.0028
39	30	HDR UNBIAS	7.0957	7.1038	0.0081
40	30	HDR UNBIAS	7.1025	7.0957	-0.0068
41	50	HDR BIAS	7.0833	7.0861	0.0028
42	50	HDR BIAS	7.1204	7.1161	-0.0043
43	50	HDR BIAS	7.1356	7.126	-0.0096
44	50	HDR BIAS	7.1038	7.0901	-0.0137
45	50	HDR BIAS	7.0886	7.0682	-0.0204
46	50	HDR UNBIAS	7.126	7.1313	0.0053
47	50	HDR UNBIAS	7.126	7.1285	0.0025
48	50	HDR UNBIAS	7.1272	7.126	-0.0012
49	50	HDR UNBIAS	7.0901	7.1025	0.0124
50	50	HDR UNBIAS	7.13	7.126	-0.004
51	100	HDR BIAS	7.1136	7.0957	-0.0179
52	100	HDR BIAS	7.0914	7.0654	-0.026
53	100	HDR BIAS	7.1093	7.1013	-0.008
54	100	HDR BIAS	7.0901	7.0667	-0.0234
55	100	HDR BIAS	7.1038	7.0942	-0.0096
56	100	HDR UNBIAS	7.0997	7.1093	0.0096
57	100	HDR UNBIAS	7.0957	7.0886	-0.0071
58	100	HDR UNBIAS	7.0942	7.1025	0.0083
59	100	HDR UNBIAS	7.1409	7.134	-0.0069
60	100	HDR UNBIAS	7.1053	7.1053	0
91	0	CORRELATION	7.079	7.0818	0.0028
92	0	CORRELATION	7.1436	7.1436	0
93	0	CORRELATION	7.0886	7.0874	-0.0012
94	0	CORRELATION	7.0738	7.0738	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0738	7.0962	7.1436	0.032156	7.0738	7.0967	7.1436	0.031794	-0.0012	0.0004	0.0028	0.0016971
3	7.0874	7.1125	7.1313	0.016958	7.0861	7.1127	7.1328	0.016945	-0.0068	0.00015	0.0041	0.0033636
10	7.0654	7.1056	7.1464	0.026573	7.0586	7.1055	7.1464	0.027337	-0.0084	-0.00017	0.0084	0.004978
30	7.0957	7.1064	7.1189	0.0081933	7.0818	7.1034	7.1232	0.012503	-0.0167	-0.00303	0.0081	0.0085872
50	7.0833	7.1131	7.1356	0.019665	7.0682	7.1101	7.1313	0.02204	-0.0204	-0.00302	0.0124	0.0096418
100	7.0901	7.1044	7.1409	0.014972	7.0654	7.0963	7.134	0.020082	-0.026	-0.0081	0.0096	0.012033

Device Test: 17.22 UVLO|VIN_RISE/VIN/4.5/4.5/0/1000/4.5/500kHz//@VIN_UVLO_RISE_503X





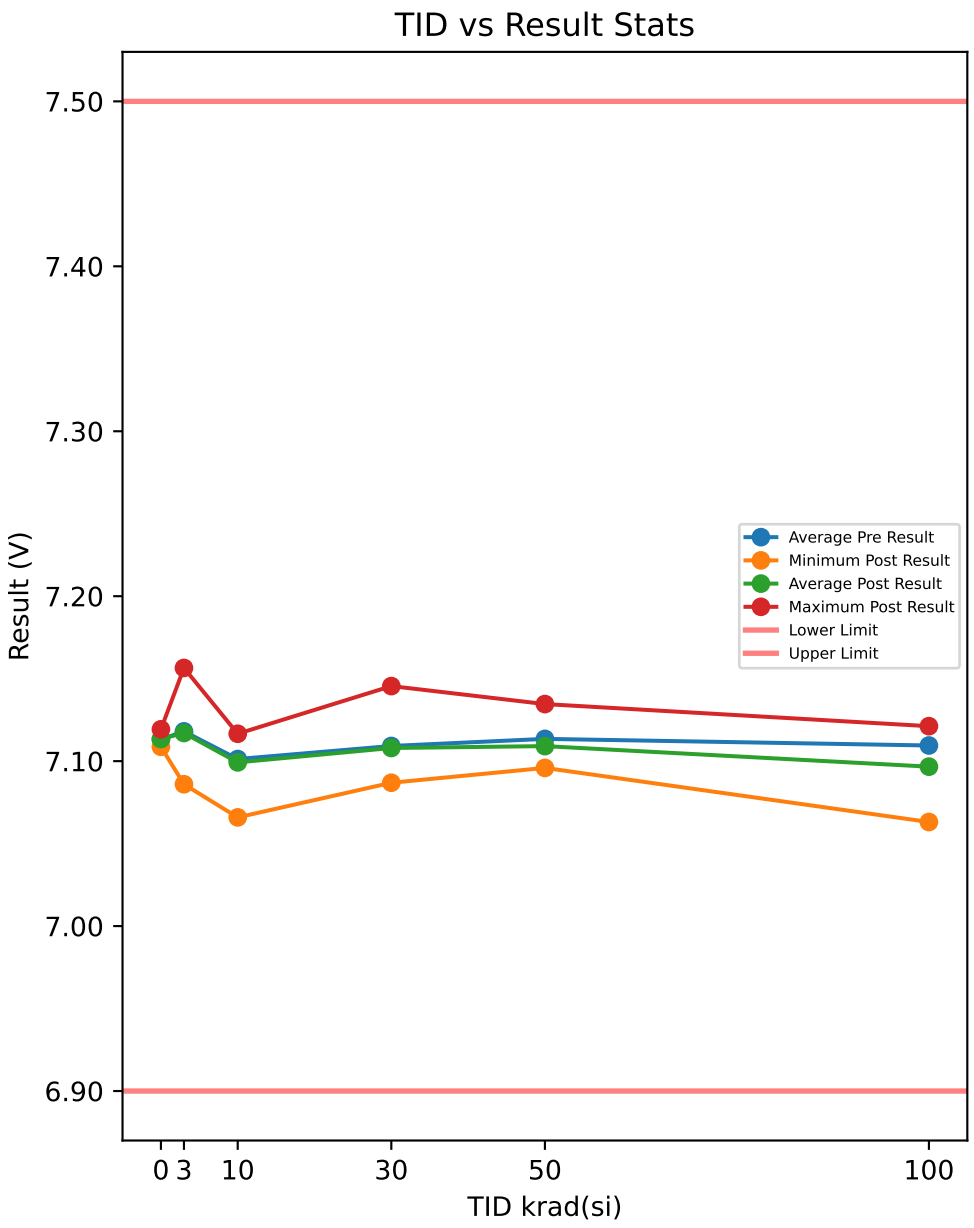
Test Results (Lower Limit = 7.2, Upper Limit = 7.8 (V))

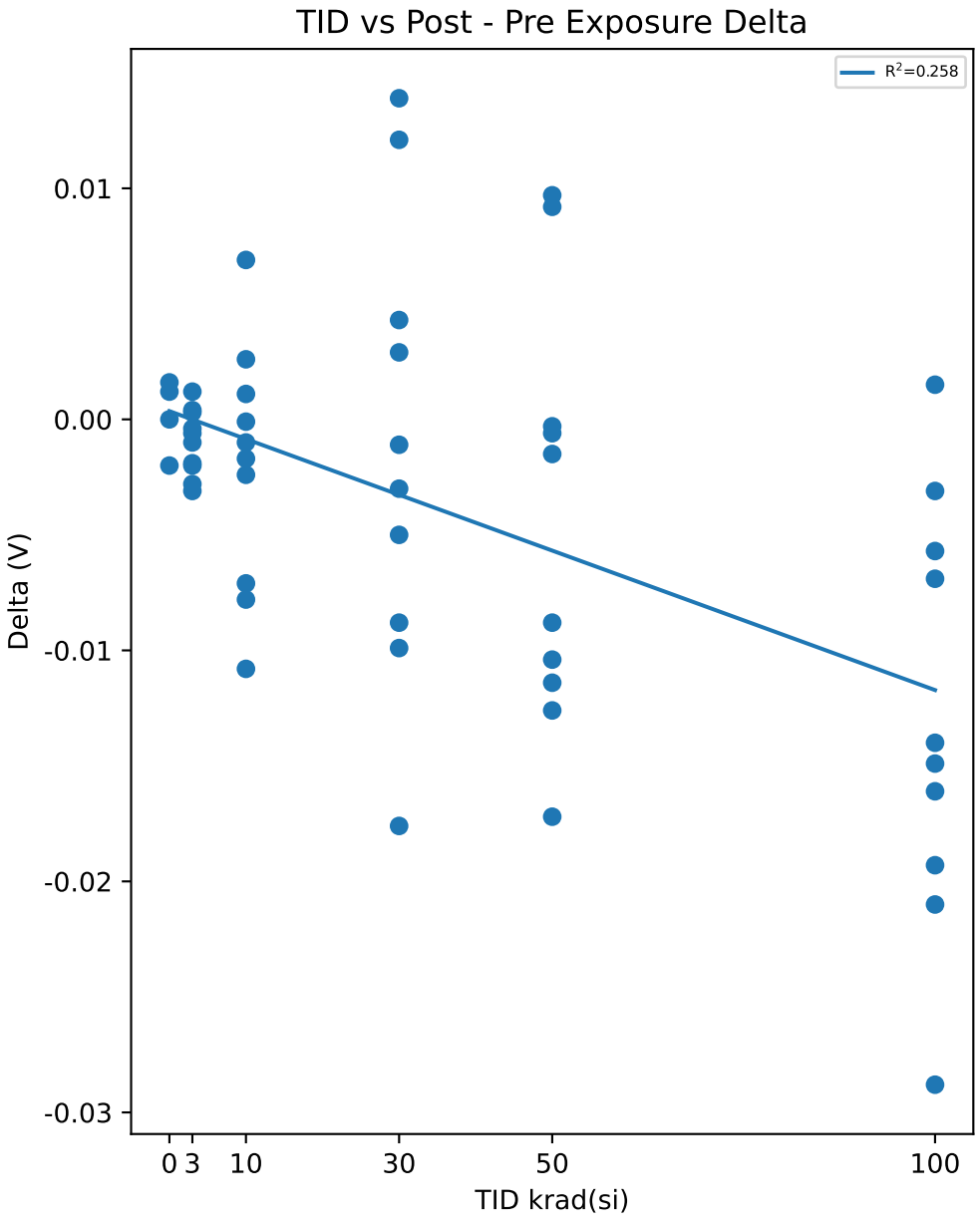
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.4221	7.4227	0.0006
2	3	HDR BIAS	7.4484	7.4472	-0.0012
3	3	HDR BIAS	7.4691	7.4729	0.0038
4	3	HDR BIAS	7.4121	7.4088	-0.0033
5	3	HDR BIAS	7.4072	7.408	0.0008
6	3	HDR UNBIAS	7.436	7.4372	0.0012
7	3	HDR UNBIAS	7.4021	7.4007	-0.0014
8	3	HDR UNBIAS	7.4381	7.4357	-0.0024
9	3	HDR UNBIAS	7.3982	7.3977	-0.0005
10	3	HDR UNBIAS	7.4378	7.4328	-0.005
11	10	HDR BIAS	7.4284	7.422	-0.0064
12	10	HDR BIAS	7.373	7.3716	-0.0014
13	10	HDR BIAS	7.4121	7.4036	-0.0085
14	10	HDR BIAS	7.4194	7.4172	-0.0022
15	10	HDR BIAS	7.3933	7.3929	-0.0004
16	10	HDR UNBIAS	7.415	7.4104	-0.0046
17	10	HDR UNBIAS	7.4097	7.4061	-0.0036
18	10	HDR UNBIAS	7.4173	7.4172	-0.0001
19	10	HDR UNBIAS	7.3931	7.3957	0.0026
20	10	HDR UNBIAS	7.4263	7.4275	0.0012
31	30	HDR BIAS	7.3984	7.3901	-0.0083
32	30	HDR BIAS	7.4213	7.4188	-0.0025
33	30	HDR BIAS	7.4173	7.3989	-0.0184
34	30	HDR BIAS	7.4246	7.4316	0.007
35	30	HDR BIAS	7.4225	7.4148	-0.0077
36	30	HDR UNBIAS	7.3989	7.3941	-0.0048
37	30	HDR UNBIAS	7.4121	7.4096	-0.0025
38	30	HDR UNBIAS	7.4088	7.4047	-0.0041
39	30	HDR UNBIAS	7.4117	7.4257	0.014
40	30	HDR UNBIAS	7.4422	7.4544	0.0122
41	50	HDR BIAS	7.4172	7.4118	-0.0054
42	50	HDR BIAS	7.4148	7.4069	-0.0079
43	50	HDR BIAS	7.4196	7.4048	-0.0148
44	50	HDR BIAS	7.4035	7.4022	-0.0013
45	50	HDR BIAS	7.4304	7.4149	-0.0155
46	50	HDR UNBIAS	7.4237	7.4172	-0.0065
47	50	HDR UNBIAS	7.4384	7.446	0.0076
48	50	HDR UNBIAS	7.4073	7.4022	-0.0051
49	50	HDR UNBIAS	7.424	7.4189	-0.0051
50	50	HDR UNBIAS	7.4359	7.4419	0.006
51	100	HDR BIAS	7.3995	7.3757	-0.0238
52	100	HDR BIAS	7.3987	7.3688	-0.0299
53	100	HDR BIAS	7.4341	7.4186	-0.0155
54	100	HDR BIAS	7.4148	7.4132	-0.0016
55	100	HDR BIAS	7.3959	7.3792	-0.0167
56	100	HDR UNBIAS	7.4091	7.4032	-0.0059
57	100	HDR UNBIAS	7.4189	7.4164	-0.0025
58	100	HDR UNBIAS	7.4347	7.4303	-0.0044
59	100	HDR UNBIAS	7.4472	7.4232	-0.024
60	100	HDR UNBIAS	7.4214	7.4113	-0.0101
91	0	CORRELATION	7.4197	7.4199	0.0002
92	0	CORRELATION	7.4292	7.4288	-0.0004
93	0	CORRELATION	7.4134	7.4132	-0.0002
94	0	CORRELATION	7.4131	7.4132	0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.4131	7.4188	7.4292	0.0075412	7.4132	7.4188	7.4288	0.0073921	-0.0004	-7.5e-05	0.0002	0.00027538
3	7.3982	7.4271	7.4691	0.022702	7.3977	7.4264	7.4729	0.023535	-0.005	-0.00074	0.0038	0.0025101
10	7.373	7.4088	7.4284	0.0173	7.3716	7.4064	7.4275	0.016511	-0.0085	-0.00234	0.0026	0.00346
30	7.3984	7.4158	7.4422	0.012994	7.3901	7.4143	7.4544	0.019445	-0.0184	-0.00151	0.014	0.009945
50	7.4035	7.4215	7.4384	0.01143	7.4022	7.4167	7.446	0.015578	-0.0155	-0.0048	0.0076	0.0075291
100	7.3959	7.4174	7.4472	0.017296	7.3688	7.404	7.4303	0.021656	-0.0299	-0.01344	-0.0016	0.010079

Device Test: 17.23 UVLO|VIN_FALL/VIN/4.5/4.5/0/1000/4.5/500kHz//@VIN_UVLO_FALL_503X





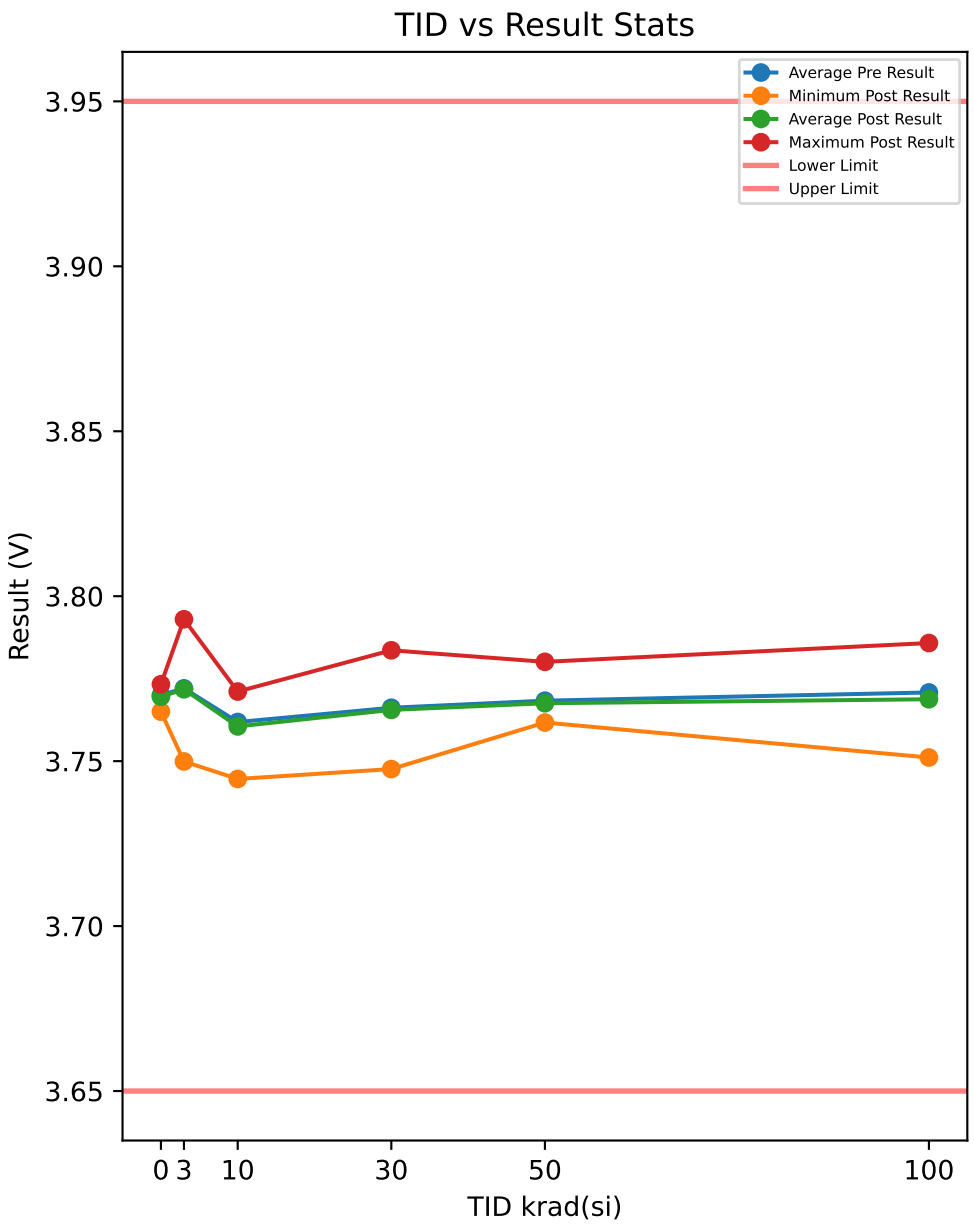
Test Results (Lower Limit = 6.9, Upper Limit = 7.5 (V))

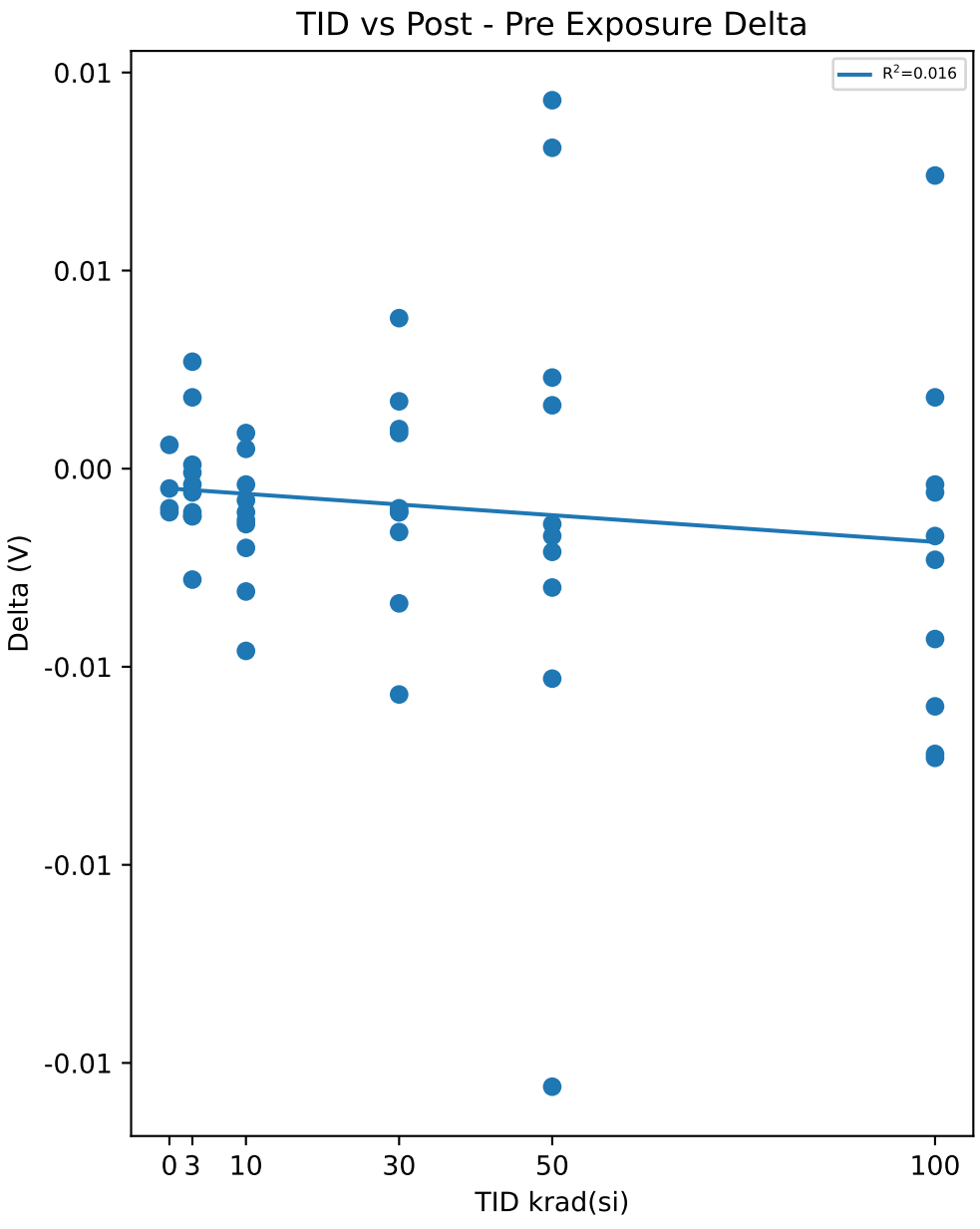
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	7.1084	7.1078	-0.0006
2	3	HDR BIAS	7.139	7.1371	-0.0019
3	3	HDR BIAS	7.1585	7.1565	-0.002
4	3	HDR BIAS	7.1031	7.1043	0.0012
5	3	HDR BIAS	7.1015	7.1019	0.0004
6	3	HDR UNBIAS	7.1294	7.129	-0.0004
7	3	HDR UNBIAS	7.0934	7.0906	-0.0028
8	3	HDR UNBIAS	7.1324	7.1293	-0.0031
9	3	HDR UNBIAS	7.087	7.086	-0.001
10	3	HDR UNBIAS	7.1278	7.1281	0.0003
11	10	HDR BIAS	7.1237	7.1166	-0.0071
12	10	HDR BIAS	7.0676	7.0659	-0.0017
13	10	HDR BIAS	7.1041	7.0963	-0.0078
14	10	HDR BIAS	7.1074	7.11	0.0026
15	10	HDR BIAS	7.0895	7.0906	0.0011
16	10	HDR UNBIAS	7.1041	7.1031	-0.001
17	10	HDR UNBIAS	7.1074	7.0966	-0.0108
18	10	HDR UNBIAS	7.1101	7.11	-0.0001
19	10	HDR UNBIAS	7.0809	7.0878	0.0069
20	10	HDR UNBIAS	7.118	7.1156	-0.0024
31	30	HDR BIAS	7.0919	7.0869	-0.005
32	30	HDR BIAS	7.113	7.1159	0.0029
33	30	HDR BIAS	7.1101	7.0925	-0.0176
34	30	HDR BIAS	7.1197	7.124	0.0043
35	30	HDR BIAS	7.1146	7.1047	-0.0099
36	30	HDR UNBIAS	7.0951	7.0921	-0.003
37	30	HDR UNBIAS	7.1094	7.1006	-0.0088
38	30	HDR UNBIAS	7.103	7.1019	-0.0011
39	30	HDR UNBIAS	7.1035	7.1156	0.0121
40	30	HDR UNBIAS	7.1316	7.1455	0.0139
41	50	HDR BIAS	7.1021	7.1006	-0.0015
42	50	HDR BIAS	7.1129	7.1003	-0.0126
43	50	HDR BIAS	7.1131	7.0959	-0.0172
44	50	HDR BIAS	7.0981	7.0975	-0.0006
45	50	HDR BIAS	7.1198	7.1094	-0.0104
46	50	HDR UNBIAS	7.1185	7.1097	-0.0088
47	50	HDR UNBIAS	7.1252	7.1344	0.0092
48	50	HDR UNBIAS	7.1073	7.0959	-0.0114
49	50	HDR UNBIAS	7.1131	7.1128	-0.0003
50	50	HDR UNBIAS	7.1249	7.1346	0.0097
51	100	HDR BIAS	7.0907	7.0697	-0.021
52	100	HDR BIAS	7.0919	7.0631	-0.0288
53	100	HDR BIAS	7.1252	7.1103	-0.0149
54	100	HDR BIAS	7.1085	7.1028	-0.0057
55	100	HDR BIAS	7.0906	7.0766	-0.014
56	100	HDR UNBIAS	7.0977	7.0946	-0.0031
57	100	HDR UNBIAS	7.1116	7.1131	0.0015
58	100	HDR UNBIAS	7.125	7.1181	-0.0069
59	100	HDR UNBIAS	7.1405	7.1212	-0.0193
60	100	HDR UNBIAS	7.1132	7.0971	-0.0161
91	0	CORRELATION	7.1115	7.1131	0.0016
92	0	CORRELATION	7.1213	7.1193	-0.002
93	0	CORRELATION	7.1113	7.1125	0.0012
94	0	CORRELATION	7.1087	7.1087	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1087	7.1132	7.1213	0.0055486	7.1087	7.1134	7.1193	0.0043894	-0.002	0.0002	0.0016	0.0016166
3	7.087	7.118	7.1585	0.022772	7.086	7.1171	7.1565	0.022397	-0.0031	-0.00099	0.0012	0.0014325
10	7.0676	7.1013	7.1237	0.017125	7.0659	7.0993	7.1166	0.015449	-0.0108	-0.00203	0.0069	0.0052907
30	7.0919	7.1092	7.1316	0.011669	7.0869	7.108	7.1455	0.017712	-0.0176	-0.00122	0.0139	0.0098435
50	7.0981	7.1135	7.1252	0.009054	7.0959	7.1091	7.1346	0.014671	-0.0172	-0.00439	0.0097	0.0091825
100	7.0906	7.1095	7.1405	0.017083	7.0631	7.0967	7.1212	0.020591	-0.0288	-0.01283	0.0015	0.0092257

Device Test: 17.7 UVLO|VLDO_RISE/VLDO/4.5/4.5/0/1000/4.5/100kHz//@VLDO_UVLO_RISE





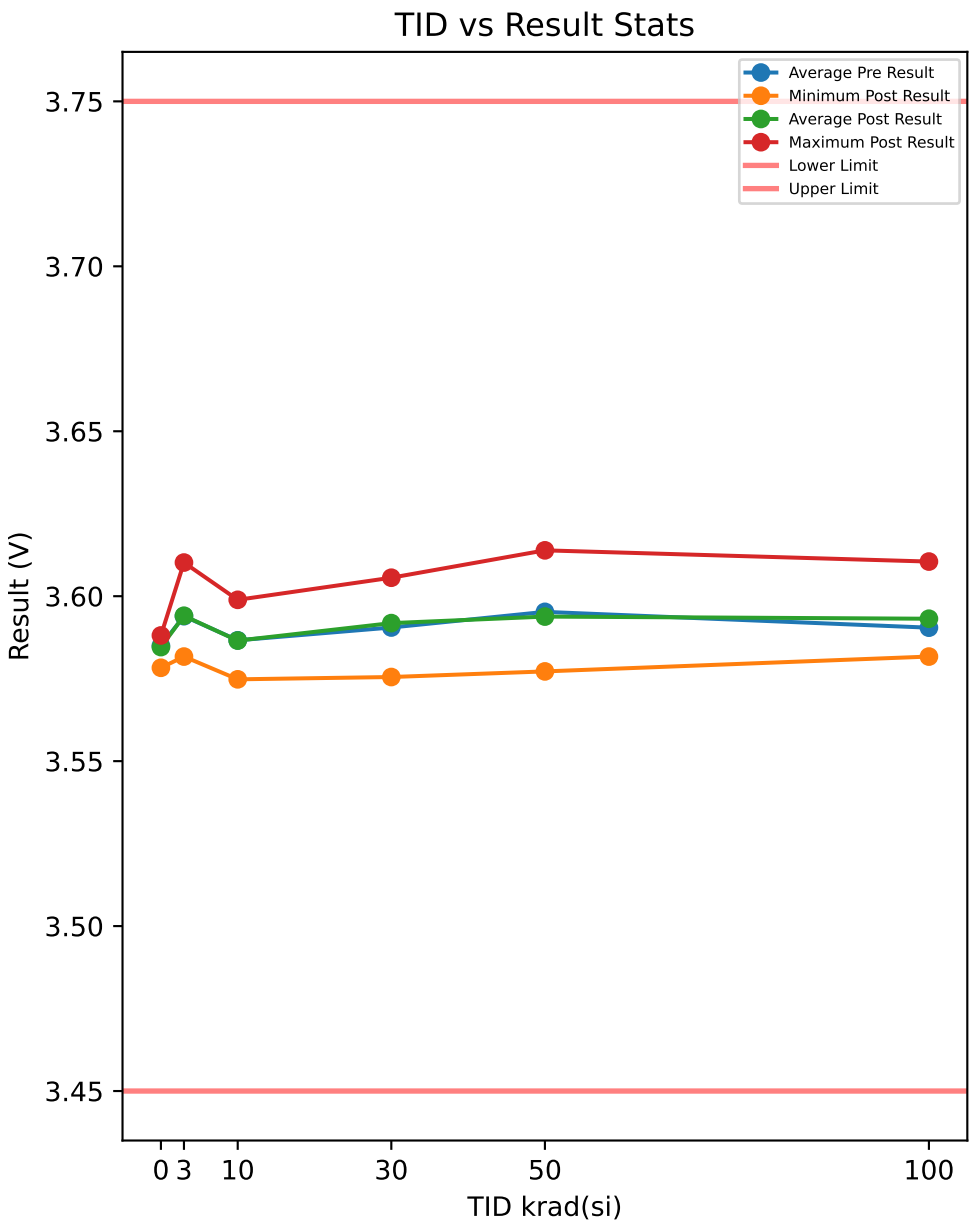
Test Results (Lower Limit = 3.65, Upper Limit = 3.95 (V))

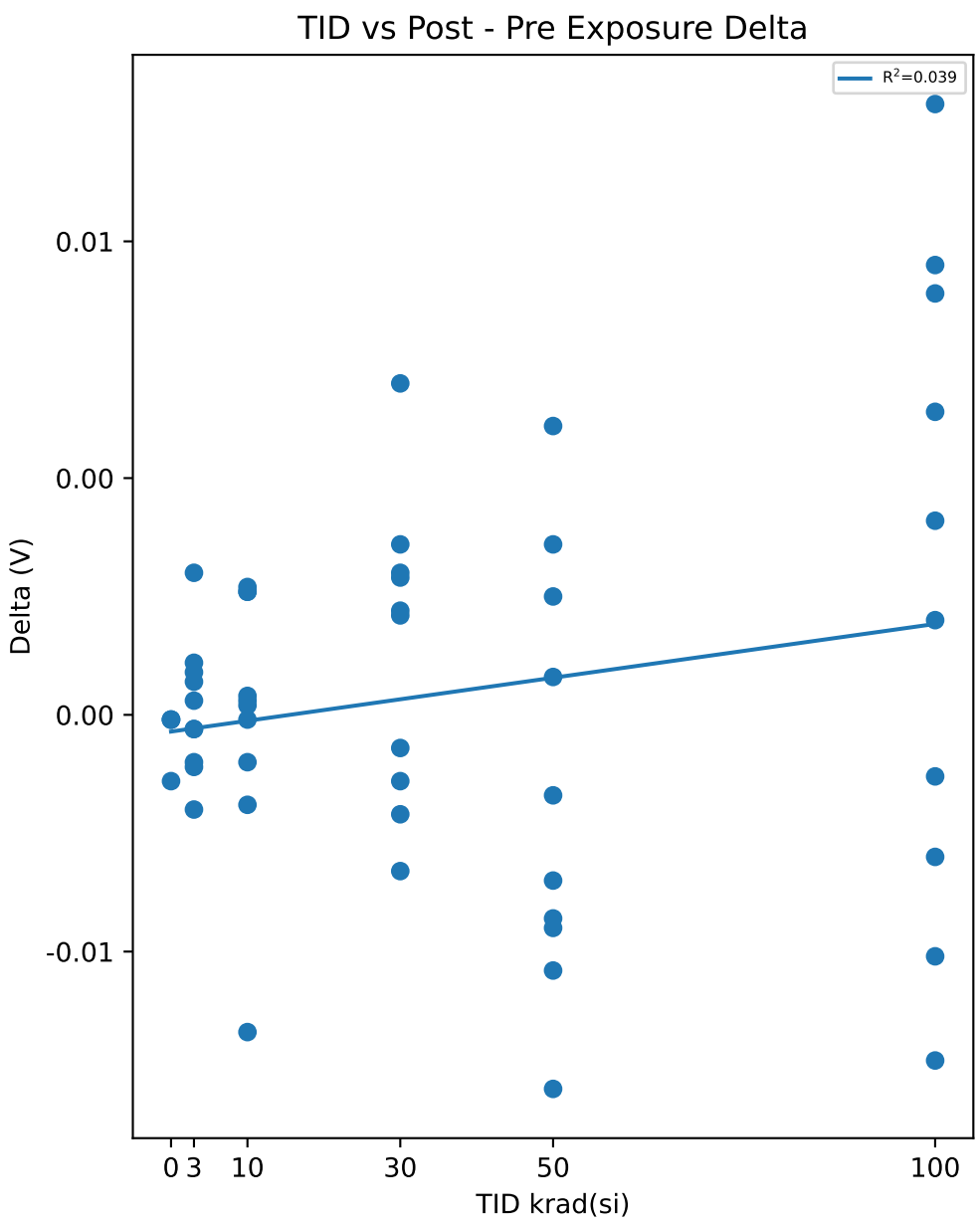
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	3.7885	3.7874	-0.0011
2	3	HDR BIAS	3.7571	3.7567	-0.0004
3	3	HDR BIAS	3.7727	3.7715	-0.0012
4	3	HDR BIAS	3.7673	3.77	0.0027
5	3	HDR BIAS	3.7577	3.7571	-0.0006
6	3	HDR UNBIAS	3.7912	3.793	0.0018
7	3	HDR UNBIAS	3.7651	3.7652	0.0001
8	3	HDR UNBIAS	3.7745	3.7744	-0.0001
9	3	HDR UNBIAS	3.7527	3.7499	-0.0028
10	3	HDR UNBIAS	3.7938	3.7926	-0.0012
11	10	HDR BIAS	3.7736	3.7705	-0.0031
12	10	HDR BIAS	3.7487	3.7476	-0.0011
13	10	HDR BIAS	3.7454	3.7446	-0.0008
14	10	HDR BIAS	3.7677	3.7686	0.0009
15	10	HDR BIAS	3.7531	3.7527	-0.0004
16	10	HDR UNBIAS	3.7698	3.7678	-0.002
17	10	HDR UNBIAS	3.7617	3.7571	-0.0046
18	10	HDR UNBIAS	3.7724	3.7711	-0.0013
19	10	HDR UNBIAS	3.7657	3.7643	-0.0014
20	10	HDR UNBIAS	3.7605	3.761	0.0005
31	30	HDR BIAS	3.7535	3.7552	0.0017
32	30	HDR BIAS	3.7533	3.7476	-0.0057
33	30	HDR BIAS	3.7827	3.7836	0.0009
34	30	HDR BIAS	3.7726	3.7692	-0.0034
35	30	HDR BIAS	3.7602	3.7612	0.001
36	30	HDR UNBIAS	3.7624	3.7613	-0.0011
37	30	HDR UNBIAS	3.7735	3.7724	-0.0011
38	30	HDR UNBIAS	3.7795	3.7833	0.0038
39	30	HDR UNBIAS	3.7534	3.7518	-0.0016
40	30	HDR UNBIAS	3.7707	3.7697	-0.001
41	50	HDR BIAS	3.7777	3.7621	-0.0156
42	50	HDR BIAS	3.7627	3.7708	0.0081
43	50	HDR BIAS	3.7651	3.7637	-0.0014
44	50	HDR BIAS	3.7727	3.7697	-0.003
45	50	HDR BIAS	3.7634	3.7617	-0.0017
46	50	HDR UNBIAS	3.7635	3.7651	0.0016
47	50	HDR UNBIAS	3.7708	3.7655	-0.0053
48	50	HDR UNBIAS	3.7646	3.7669	0.0023
49	50	HDR UNBIAS	3.772	3.7699	-0.0021
50	50	HDR UNBIAS	3.7708	3.7801	0.0093
51	100	HDR BIAS	3.7571	3.7511	-0.006
52	100	HDR BIAS	3.7698	3.7675	-0.0023
53	100	HDR BIAS	3.793	3.7858	-0.0072
54	100	HDR BIAS	3.7596	3.7592	-0.0004
55	100	HDR BIAS	3.7685	3.7612	-0.0073
56	100	HDR UNBIAS	3.7686	3.776	0.0074
57	100	HDR UNBIAS	3.7699	3.7717	0.0018
58	100	HDR UNBIAS	3.7735	3.7692	-0.0043
59	100	HDR UNBIAS	3.7705	3.7699	-0.0006
60	100	HDR UNBIAS	3.7777	3.776	-0.0017
91	0	CORRELATION	3.768	3.7686	0.0006
92	0	CORRELATION	3.7743	3.7733	-0.001
93	0	CORRELATION	3.7717	3.7712	-0.0005
94	0	CORRELATION	3.7661	3.765	-0.0011

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.7661	3.77	3.7743	0.0036782	3.765	3.7695	3.7733	0.0035771	-0.0011	-0.0005	0.0006	0.00077889
3	3.7527	3.7721	3.7938	0.014875	3.7499	3.7718	3.793	0.015285	-0.0028	-0.00028	0.0027	0.0015711
10	3.7454	3.7619	3.7736	0.0099082	3.7446	3.7605	3.7711	0.0096469	-0.0046	-0.00133	0.0009	0.0016262
30	3.7533	3.7662	3.7827	0.011084	3.7476	3.7655	3.7836	0.012354	-0.0057	-0.00065	0.0038	0.0026863
50	3.7627	3.7683	3.7777	0.0051234	3.7617	3.7675	3.7801	0.0054527	-0.0156	-0.00078	0.0093	0.0070204
100	3.7571	3.7708	3.793	0.0098483	3.7511	3.7688	3.7858	0.0098169	-0.0073	-0.00206	0.0074	0.0045201

Device Test: 17.8 UVLO|VLDO_FALL/VLDO/4.5/4.5/0/1000/4.5/100kHz//@VLDO_UVLO_FALL





Test Results (Lower Limit = 3.45, Upper Limit = 3.75 (V))

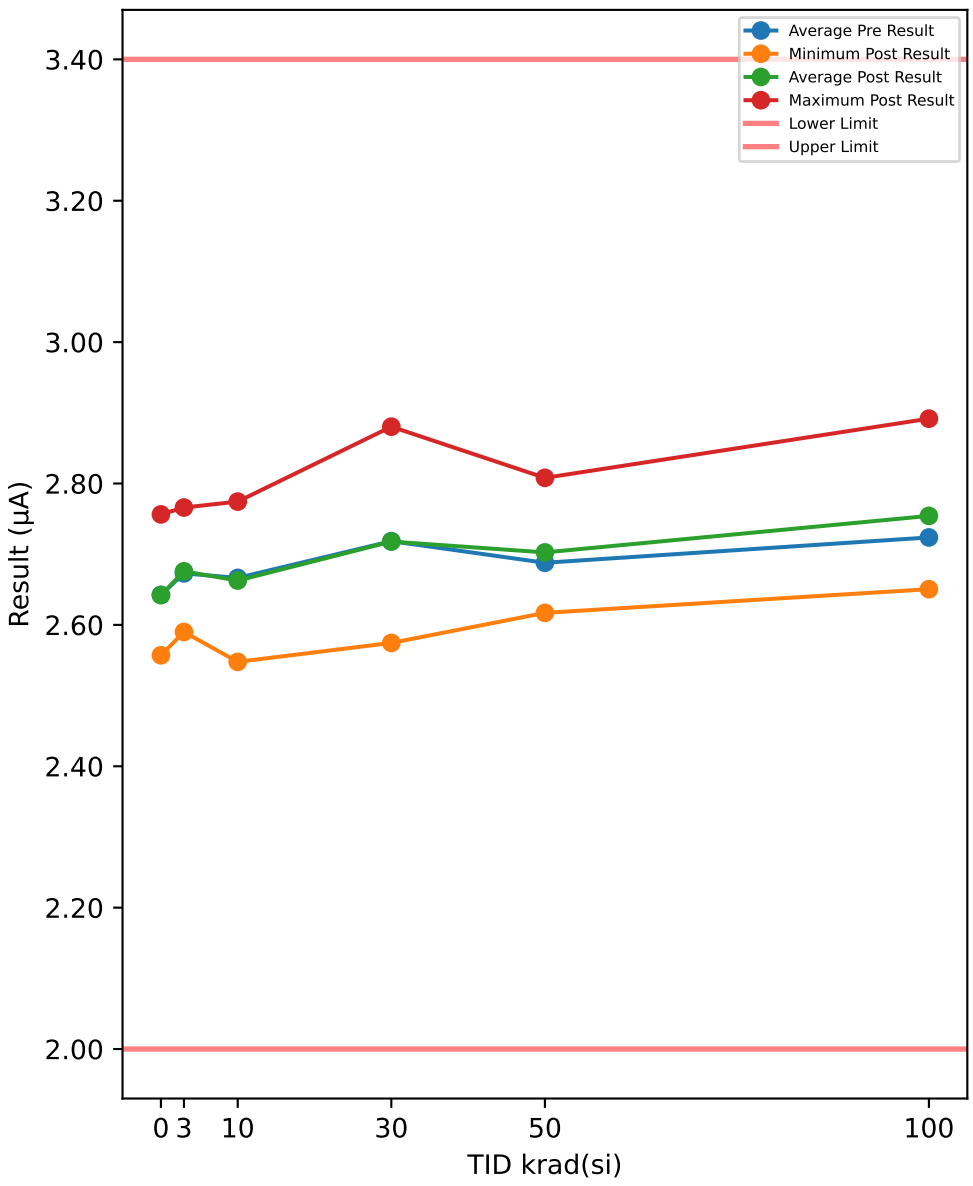
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	3.6093	3.6102	0.0009
2	3	HDR BIAS	3.6019	3.6022	0.0003
3	3	HDR BIAS	3.5907	3.5914	0.0007
4	3	HDR BIAS	3.5906	3.5896	-0.001
5	3	HDR BIAS	3.5919	3.5908	-0.0011
6	3	HDR UNBIAS	3.6019	3.6016	-0.0003
7	3	HDR UNBIAS	3.5787	3.5817	0.003
8	3	HDR UNBIAS	3.5853	3.5833	-0.002
9	3	HDR UNBIAS	3.5835	3.5846	0.0011
10	3	HDR UNBIAS	3.6056	3.6053	-0.0003
11	10	HDR BIAS	3.5869	3.5895	0.0026
12	10	HDR BIAS	3.5822	3.5755	-0.0067
13	10	HDR BIAS	3.5797	3.5799	0.0002
14	10	HDR BIAS	3.5928	3.5931	0.0003
15	10	HDR BIAS	3.5744	3.5748	0.0004
16	10	HDR UNBIAS	3.5915	3.5896	-0.0019
17	10	HDR UNBIAS	3.5859	3.5849	-0.001
18	10	HDR UNBIAS	3.5907	3.5906	-0.0001
19	10	HDR UNBIAS	3.5859	3.5886	0.0027
20	10	HDR UNBIAS	3.5963	3.5989	0.0026
31	30	HDR BIAS	3.5953	3.5989	0.0036
32	30	HDR BIAS	3.5788	3.5755	-0.0033
33	30	HDR BIAS	3.5925	3.5955	0.003
34	30	HDR BIAS	3.5869	3.5862	-0.0007
35	30	HDR BIAS	3.5866	3.5845	-0.0021
36	30	HDR UNBIAS	3.5966	3.6036	0.007
37	30	HDR UNBIAS	3.5997	3.5983	-0.0014
38	30	HDR UNBIAS	3.6034	3.6056	0.0022
39	30	HDR UNBIAS	3.5747	3.5776	0.0029
40	30	HDR UNBIAS	3.5906	3.5927	0.0021
41	50	HDR BIAS	3.5913	3.5896	-0.0017
42	50	HDR BIAS	3.5885	3.585	-0.0035
43	50	HDR BIAS	3.5909	3.5917	0.0008
44	50	HDR BIAS	3.6178	3.6099	-0.0079
45	50	HDR BIAS	3.5844	3.5799	-0.0045
46	50	HDR UNBIAS	3.5815	3.5772	-0.0043
47	50	HDR UNBIAS	3.6078	3.6139	0.0061
48	50	HDR UNBIAS	3.5869	3.5905	0.0036
49	50	HDR UNBIAS	3.6068	3.6014	-0.0054
50	50	HDR UNBIAS	3.5966	3.5991	0.0025
51	100	HDR BIAS	3.5804	3.5845	0.0041
52	100	HDR BIAS	3.5884	3.5833	-0.0051
53	100	HDR BIAS	3.6016	3.6105	0.0089
54	100	HDR BIAS	3.5835	3.5822	-0.0013
55	100	HDR BIAS	3.5847	3.5817	-0.003
56	100	HDR UNBIAS	3.5791	3.5855	0.0064
57	100	HDR UNBIAS	3.6007	3.6102	0.0095
58	100	HDR UNBIAS	3.5909	3.6038	0.0129
59	100	HDR UNBIAS	3.6006	3.6026	0.002
60	100	HDR UNBIAS	3.5947	3.5874	-0.0073
91	0	CORRELATION	3.5856	3.5855	-0.0001
92	0	CORRELATION	3.5882	3.5881	-0.0001
93	0	CORRELATION	3.5865	3.5864	-0.0001
94	0	CORRELATION	3.5797	3.5783	-0.0014

Test Statistics (V)

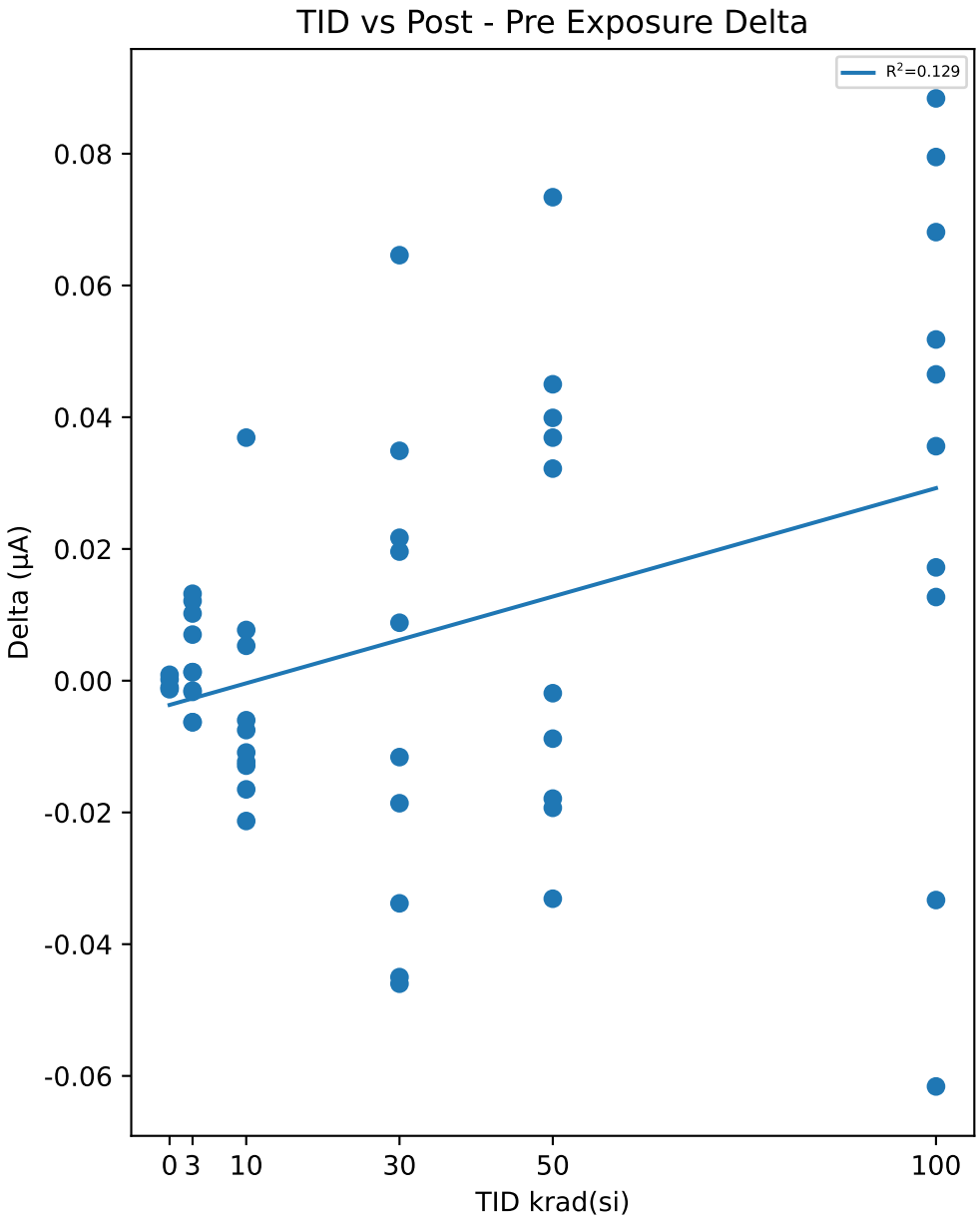
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5797	3.585	3.5882	0.0036941	3.5783	3.5846	3.5881	0.00432	-0.0014	-0.000425	-0.0001	0.00065
3	3.5787	3.5939	3.6093	0.010222	3.5817	3.5941	3.6102	0.010031	-0.002	0.00013	0.003	0.0014072
10	3.5744	3.5866	3.5963	0.0065847	3.5748	3.5865	3.5989	0.0077542	-0.0067	-9e-05	0.0027	0.0027994
30	3.5747	3.5905	3.6034	0.0090062	3.5755	3.5918	3.6056	0.010482	-0.0033	0.00133	0.007	0.003139
50	3.5815	3.5953	3.6178	0.011822	3.5772	3.5938	3.6139	0.012148	-0.0079	-0.00143	0.0061	0.0044977
100	3.5791	3.5905	3.6016	0.0086027	3.5817	3.5932	3.6105	0.012059	-0.0073	0.00271	0.0129	0.0067839

Device Test: 18.13 CURRENT|SS_0p3V/SS/14/14/0/1000/5/100kHz//@I_SS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

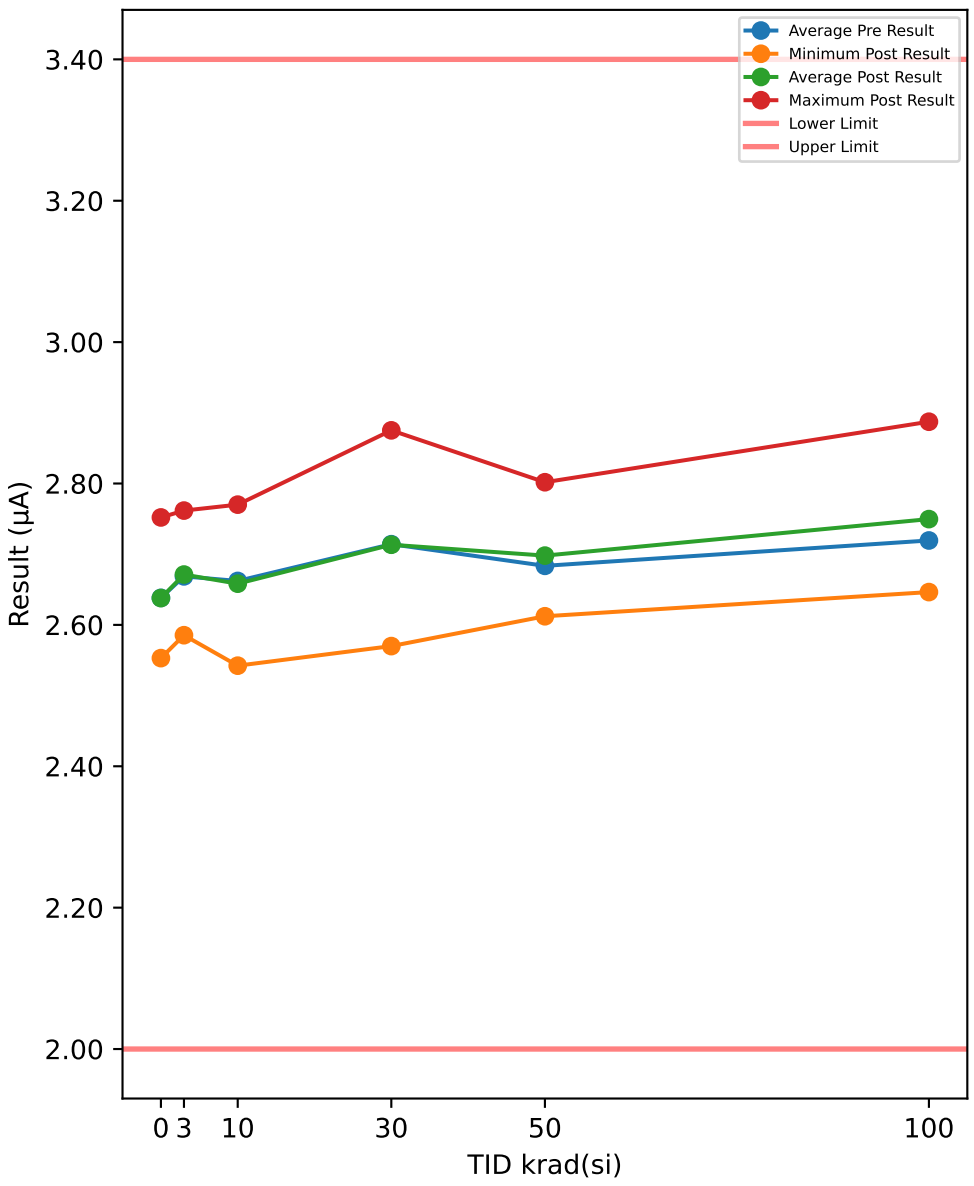
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.6622	2.6692	0.007
2	3	HDR BIAS	2.703	2.6967	-0.0063
3	3	HDR BIAS	2.6685	2.6698	0.0013
4	3	HDR BIAS	2.6733	2.6716	-0.0017
5	3	HDR BIAS	2.7503	2.7605	0.0102
6	3	HDR UNBIAS	2.6324	2.6445	0.0121
7	3	HDR UNBIAS	2.7647	2.766	0.0013
8	3	HDR UNBIAS	2.647	2.6407	-0.0063
9	3	HDR UNBIAS	2.6356	2.6488	0.0132
10	3	HDR UNBIAS	2.5915	2.59	-0.0015
11	10	HDR BIAS	2.6656	2.6491	-0.0165
12	10	HDR BIAS	2.7853	2.7744	-0.0109
13	10	HDR BIAS	2.7044	2.7097	0.0053
14	10	HDR BIAS	2.7384	2.7261	-0.0123
15	10	HDR BIAS	2.7772	2.7559	-0.0213
16	10	HDR UNBIAS	2.6167	2.6107	-0.006
17	10	HDR UNBIAS	2.5492	2.5861	0.0369
18	10	HDR UNBIAS	2.561	2.5535	-0.0075
19	10	HDR UNBIAS	2.7062	2.7139	0.0077
20	10	HDR UNBIAS	2.5606	2.5477	-0.0129
31	30	HDR BIAS	2.8587	2.8804	0.0217
32	30	HDR BIAS	2.7244	2.789	0.0646
33	30	HDR BIAS	2.5396	2.5745	0.0349
34	30	HDR BIAS	2.6999	2.6661	-0.0338
35	30	HDR BIAS	2.7427	2.7311	-0.0116
36	30	HDR UNBIAS	2.8743	2.8283	-0.046
37	30	HDR UNBIAS	2.606	2.6256	0.0196
38	30	HDR UNBIAS	2.6954	2.7042	0.0088
39	30	HDR UNBIAS	2.6701	2.6251	-0.045
40	30	HDR UNBIAS	2.7731	2.7545	-0.0186
41	50	HDR BIAS	2.6882	2.6689	-0.0193
42	50	HDR BIAS	2.7049	2.7499	0.045
43	50	HDR BIAS	2.6739	2.672	-0.0019
44	50	HDR BIAS	2.5801	2.617	0.0369
45	50	HDR BIAS	2.5835	2.6569	0.0734
46	50	HDR UNBIAS	2.6981	2.6893	-0.0088
47	50	HDR UNBIAS	2.7651	2.7973	0.0322
48	50	HDR UNBIAS	2.6743	2.6564	-0.0179
49	50	HDR UNBIAS	2.7426	2.7095	-0.0331
50	50	HDR UNBIAS	2.7681	2.808	0.0399
51	100	HDR BIAS	2.7533	2.8214	0.0681
52	100	HDR BIAS	2.698	2.7152	0.0172
53	100	HDR BIAS	2.6924	2.7389	0.0465
54	100	HDR BIAS	2.6692	2.7048	0.0356
55	100	HDR BIAS	2.8033	2.8917	0.0884
56	100	HDR UNBIAS	2.8102	2.7769	-0.0333
57	100	HDR UNBIAS	2.6834	2.6961	0.0127
58	100	HDR UNBIAS	2.7121	2.6505	-0.0616
59	100	HDR UNBIAS	2.7001	2.7796	0.0795
60	100	HDR UNBIAS	2.715	2.7668	0.0518
91	0	CORRELATION	2.5614	2.5601	-0.0013
92	0	CORRELATION	2.5561	2.557	0.0009
93	0	CORRELATION	2.7561	2.7563	0.0002
94	0	CORRELATION	2.6961	2.6951	-0.001

Test Statistics (µA)

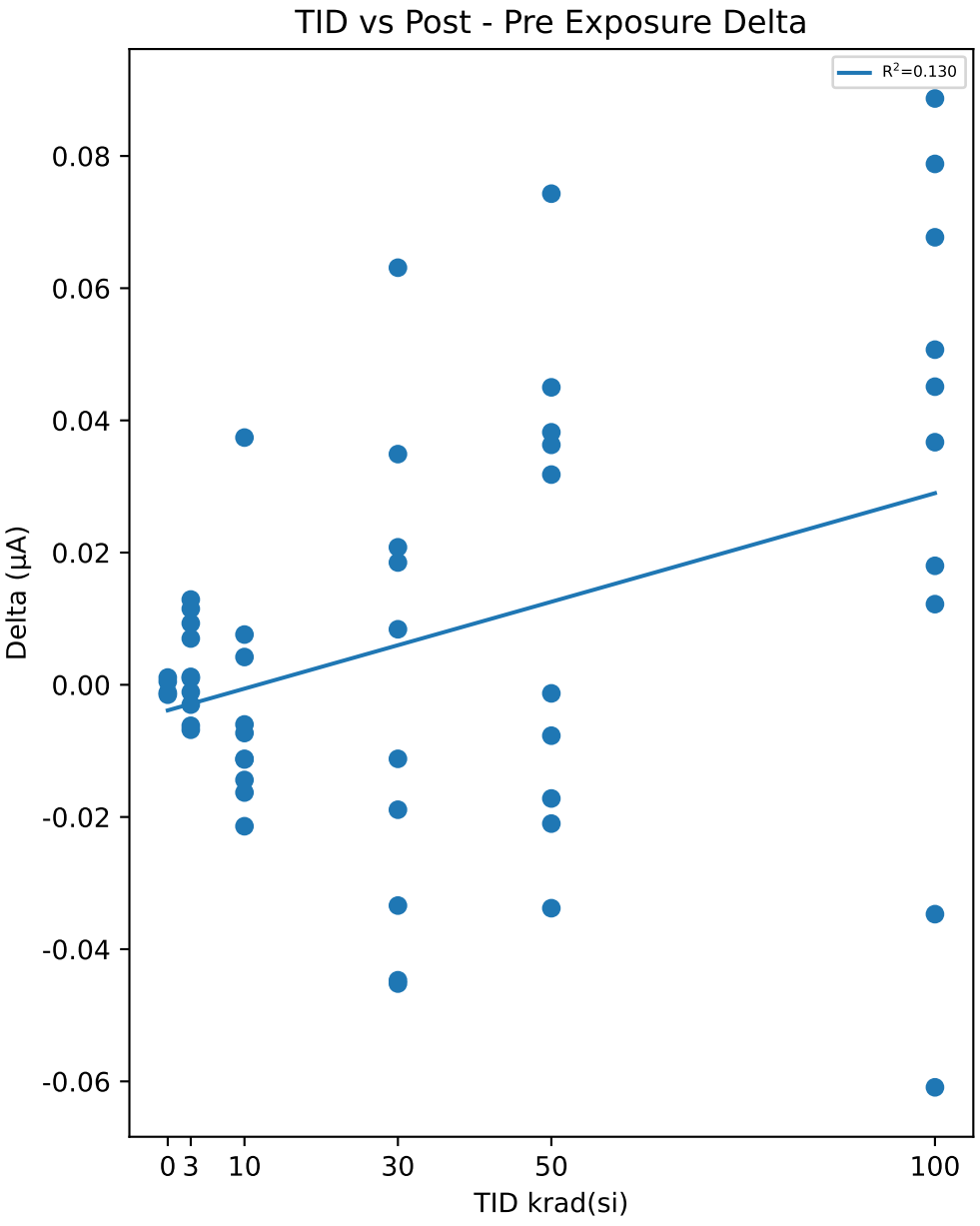
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5561	2.6424	2.7561	0.0997	2.557	2.6421	2.7563	0.099694	-0.0013	-0.0003	0.0009	0.0010296
3	2.5915	2.6728	2.7647	0.053527	2.59	2.6758	2.766	0.0539	-0.0063	0.00293	0.0132	0.0072705
10	2.5492	2.6665	2.7853	0.090145	2.5477	2.6627	2.7744	0.084274	-0.0213	-0.00375	0.0369	0.016876
30	2.5396	2.7184	2.8743	0.10296	2.5745	2.7179	2.8804	0.097598	-0.046	-0.00054	0.0646	0.036643
50	2.5801	2.6879	2.7681	0.065556	2.617	2.7025	2.808	0.063387	-0.0331	0.01464	0.0734	0.035165
100	2.6692	2.7237	2.8102	0.049099	2.6505	2.7542	2.8917	0.069175	-0.0616	0.03049	0.0884	0.048246

Device Test: 18.17 CURRENT|SS_0p3V/SS/12/12/0/1000/5/500kHz//@I_SS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

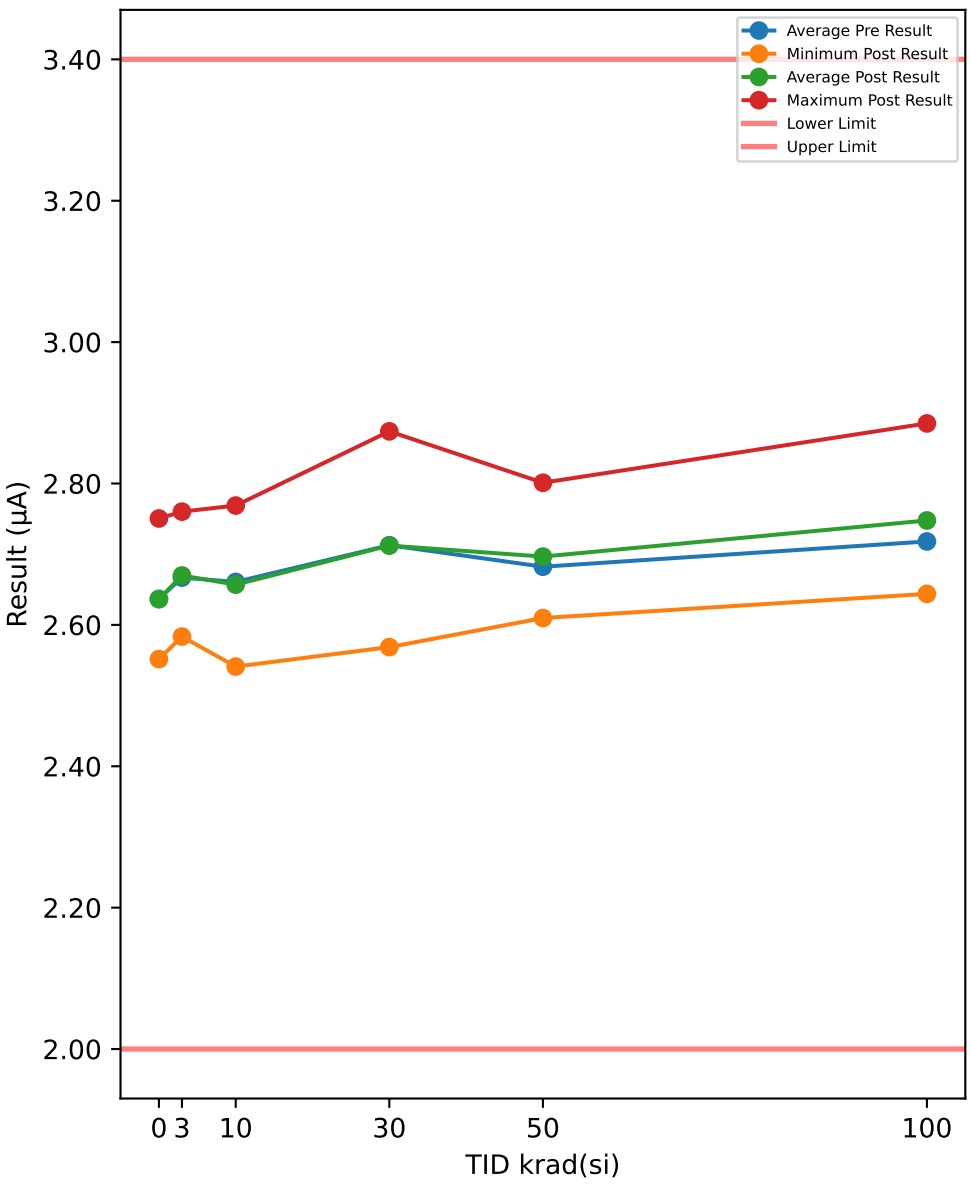
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.6576	2.6646	0.007
2	3	HDR BIAS	2.6994	2.6932	-0.0062
3	3	HDR BIAS	2.6642	2.6652	0.001
4	3	HDR BIAS	2.6689	2.6659	-0.003
5	3	HDR BIAS	2.7467	2.756	0.0093
6	3	HDR UNBIAS	2.6283	2.6398	0.0115
7	3	HDR UNBIAS	2.7605	2.7617	0.0012
8	3	HDR UNBIAS	2.643	2.6362	-0.0068
9	3	HDR UNBIAS	2.6312	2.6441	0.0129
10	3	HDR UNBIAS	2.5865	2.5854	-0.0011
11	10	HDR BIAS	2.6615	2.6452	-0.0163
12	10	HDR BIAS	2.7814	2.7701	-0.0113
13	10	HDR BIAS	2.7001	2.7043	0.0042
14	10	HDR BIAS	2.7338	2.7226	-0.0112
15	10	HDR BIAS	2.7729	2.7515	-0.0214
16	10	HDR UNBIAS	2.6123	2.6063	-0.006
17	10	HDR UNBIAS	2.545	2.5824	0.0374
18	10	HDR UNBIAS	2.5564	2.5491	-0.0073
19	10	HDR UNBIAS	2.7015	2.7091	0.0076
20	10	HDR UNBIAS	2.5567	2.5423	-0.0144
31	30	HDR BIAS	2.8544	2.8752	0.0208
32	30	HDR BIAS	2.7207	2.7838	0.0631
33	30	HDR BIAS	2.5351	2.57	0.0349
34	30	HDR BIAS	2.695	2.6616	-0.0334
35	30	HDR BIAS	2.7386	2.7274	-0.0112
36	30	HDR UNBIAS	2.8696	2.8244	-0.0452
37	30	HDR UNBIAS	2.6017	2.6202	0.0185
38	30	HDR UNBIAS	2.6919	2.7003	0.0084
39	30	HDR UNBIAS	2.6657	2.621	-0.0447
40	30	HDR UNBIAS	2.7688	2.7499	-0.0189
41	50	HDR BIAS	2.6844	2.6634	-0.021
42	50	HDR BIAS	2.7005	2.7455	0.045
43	50	HDR BIAS	2.6696	2.6683	-0.0013
44	50	HDR BIAS	2.5759	2.6122	0.0363
45	50	HDR BIAS	2.5789	2.6532	0.0743
46	50	HDR UNBIAS	2.6936	2.6859	-0.0077
47	50	HDR UNBIAS	2.7606	2.7924	0.0318
48	50	HDR UNBIAS	2.6701	2.6529	-0.0172
49	50	HDR UNBIAS	2.7382	2.7044	-0.0338
50	50	HDR UNBIAS	2.7636	2.8018	0.0382
51	100	HDR BIAS	2.7486	2.8163	0.0677
52	100	HDR BIAS	2.6932	2.7112	0.018
53	100	HDR BIAS	2.6887	2.7338	0.0451
54	100	HDR BIAS	2.6646	2.7013	0.0367
55	100	HDR BIAS	2.7987	2.8874	0.0887
56	100	HDR UNBIAS	2.8068	2.7721	-0.0347
57	100	HDR UNBIAS	2.6793	2.6915	0.0122
58	100	HDR UNBIAS	2.7073	2.6464	-0.0609
59	100	HDR UNBIAS	2.6962	2.775	0.0788
60	100	HDR UNBIAS	2.7107	2.7614	0.0507
91	0	CORRELATION	2.5572	2.556	-0.0012
92	0	CORRELATION	2.5519	2.553	0.0011
93	0	CORRELATION	2.7515	2.752	0.0005
94	0	CORRELATION	2.6922	2.6907	-0.0015

Test Statistics (µA)

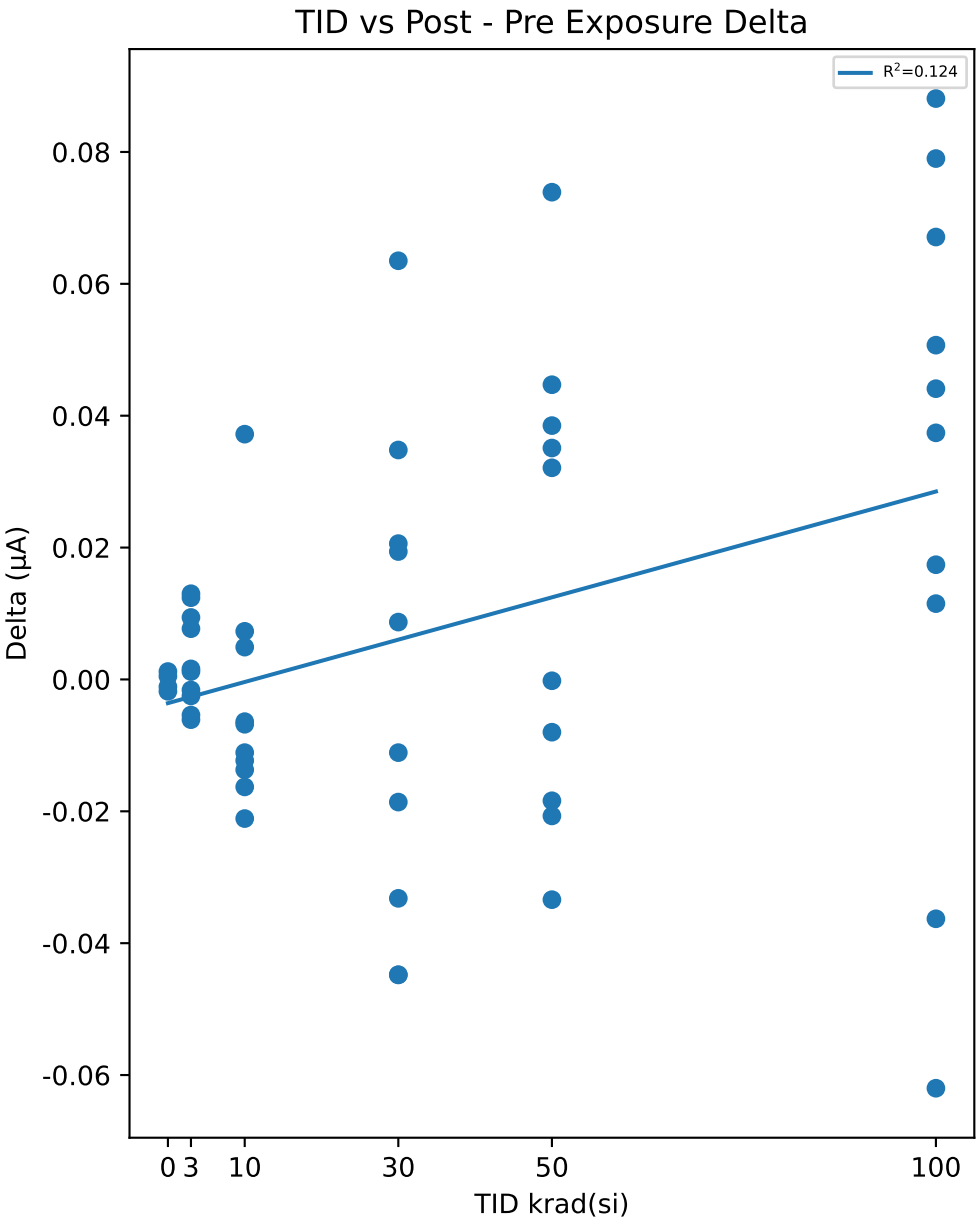
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5519	2.6382	2.7515	0.099602	2.553	2.6379	2.752	0.099536	-0.0015	-0.000275	0.0011	0.0012712
3	2.5865	2.6686	2.7605	0.053803	2.5854	2.6712	2.7617	0.054037	-0.0068	0.00258	0.0129	0.0071873
10	2.545	2.6622	2.7814	0.090136	2.5423	2.6583	2.7701	0.08435	-0.0214	-0.00387	0.0374	0.01699
30	2.5351	2.7142	2.8696	0.10294	2.57	2.7134	2.8752	0.09754	-0.0452	-0.00077	0.0631	0.036022
50	2.5759	2.6835	2.7636	0.06552	2.6122	2.698	2.8018	0.062903	-0.0338	0.01446	0.0743	0.03525
100	2.6646	2.7194	2.8068	0.049194	2.6464	2.7496	2.8874	0.06897	-0.0609	0.03023	0.0887	0.048142

Device Test: 18.21 CURRENT|SS_0p3V/SS/14/14/0/1000/5/500kHz//@I_SS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

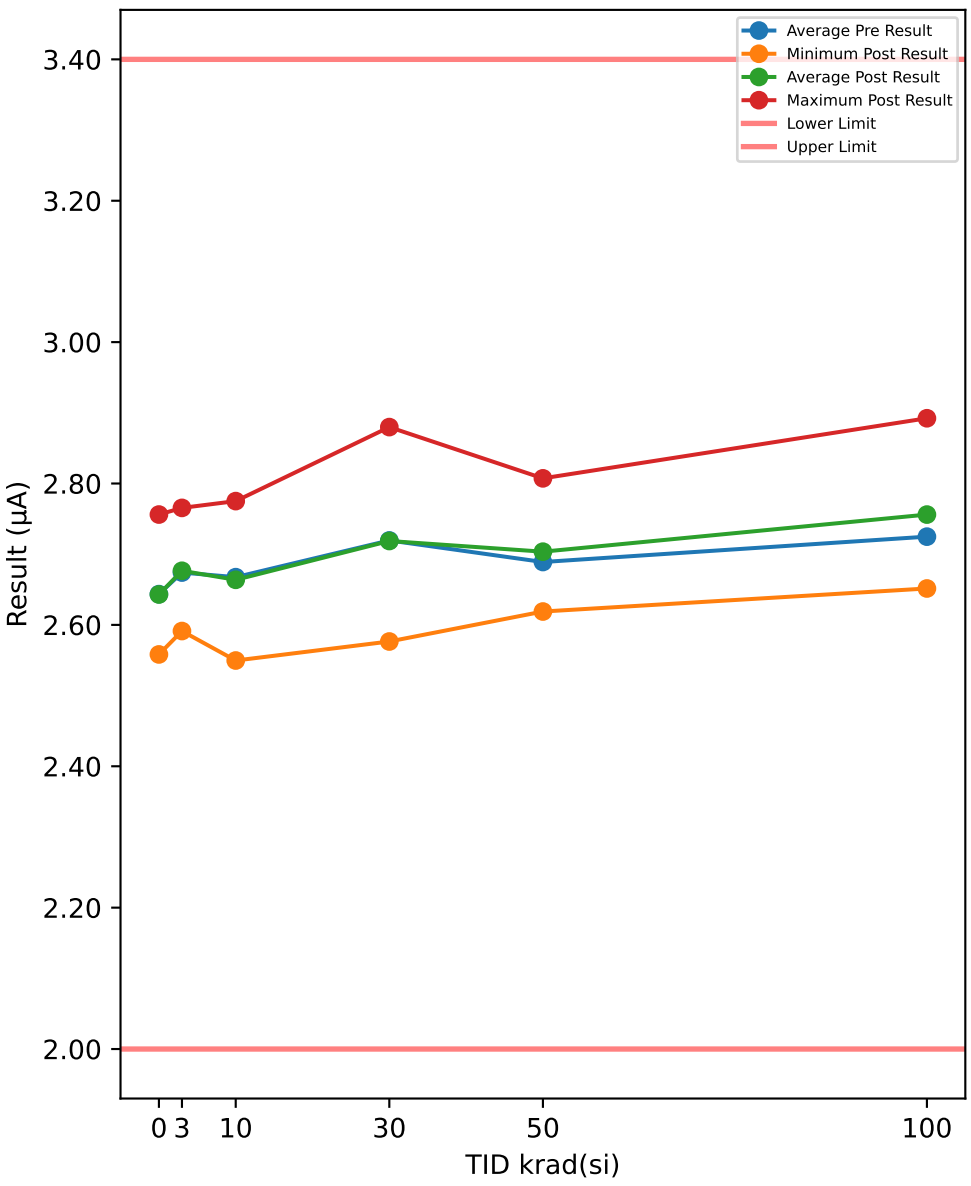
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.656	2.6637	0.0077
2	3	HDR BIAS	2.6971	2.6917	-0.0054
3	3	HDR BIAS	2.6625	2.6641	0.0016
4	3	HDR BIAS	2.6672	2.6647	-0.0025
5	3	HDR BIAS	2.7449	2.7543	0.0094
6	3	HDR UNBIAS	2.6265	2.6389	0.0124
7	3	HDR UNBIAS	2.759	2.7602	0.0012
8	3	HDR UNBIAS	2.6411	2.635	-0.0061
9	3	HDR UNBIAS	2.6299	2.6429	0.013
10	3	HDR UNBIAS	2.5851	2.5835	-0.0016
11	10	HDR BIAS	2.6598	2.6435	-0.0163
12	10	HDR BIAS	2.7799	2.7688	-0.0111
13	10	HDR BIAS	2.6986	2.7035	0.0049
14	10	HDR BIAS	2.733	2.7207	-0.0123
15	10	HDR BIAS	2.7716	2.7505	-0.0211
16	10	HDR UNBIAS	2.6114	2.605	-0.0064
17	10	HDR UNBIAS	2.5439	2.5811	0.0372
18	10	HDR UNBIAS	2.5544	2.5476	-0.0068
19	10	HDR UNBIAS	2.7002	2.7075	0.0073
20	10	HDR UNBIAS	2.5547	2.541	-0.0137
31	30	HDR BIAS	2.8532	2.8738	0.0206
32	30	HDR BIAS	2.719	2.7825	0.0635
33	30	HDR BIAS	2.5338	2.5686	0.0348
34	30	HDR BIAS	2.6937	2.6605	-0.0332
35	30	HDR BIAS	2.7367	2.7256	-0.0111
36	30	HDR UNBIAS	2.8687	2.8239	-0.0448
37	30	HDR UNBIAS	2.6005	2.6199	0.0194
38	30	HDR UNBIAS	2.6899	2.6986	0.0087
39	30	HDR UNBIAS	2.6646	2.6198	-0.0448
40	30	HDR UNBIAS	2.7672	2.7486	-0.0186
41	50	HDR BIAS	2.6831	2.6624	-0.0207
42	50	HDR BIAS	2.6996	2.7443	0.0447
43	50	HDR BIAS	2.6679	2.6677	-0.0002
44	50	HDR BIAS	2.5746	2.6097	0.0351
45	50	HDR BIAS	2.5774	2.6513	0.0739
46	50	HDR UNBIAS	2.6923	2.6843	-0.008
47	50	HDR UNBIAS	2.7595	2.7916	0.0321
48	50	HDR UNBIAS	2.6688	2.6504	-0.0184
49	50	HDR UNBIAS	2.7371	2.7037	-0.0334
50	50	HDR UNBIAS	2.7626	2.8011	0.0385
51	100	HDR BIAS	2.7474	2.8145	0.0671
52	100	HDR BIAS	2.6921	2.7095	0.0174
53	100	HDR BIAS	2.6874	2.7315	0.0441
54	100	HDR BIAS	2.663	2.7004	0.0374
55	100	HDR BIAS	2.7969	2.885	0.0881
56	100	HDR UNBIAS	2.8055	2.7692	-0.0363
57	100	HDR UNBIAS	2.678	2.6895	0.0115
58	100	HDR UNBIAS	2.7059	2.6439	-0.062
59	100	HDR UNBIAS	2.6945	2.7735	0.079
60	100	HDR UNBIAS	2.7094	2.7601	0.0507
91	0	CORRELATION	2.5558	2.5547	-0.0011
92	0	CORRELATION	2.5504	2.5516	0.0012
93	0	CORRELATION	2.75	2.7505	0.0005
94	0	CORRELATION	2.6906	2.6888	-0.0018

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5504	2.6367	2.75	0.099557	2.5516	2.6364	2.7505	0.099382	-0.0018	-0.0003	0.0012	0.001388
3	2.5851	2.6669	2.759	0.053722	2.5835	2.6699	2.7602	0.05398	-0.0061	0.00297	0.013	0.0071599
10	2.5439	2.6608	2.7799	0.090272	2.541	2.6569	2.7688	0.084382	-0.0211	-0.00383	0.0372	0.016914
30	2.5338	2.7127	2.8687	0.10298	2.5686	2.7122	2.8738	0.09751	-0.0448	-0.00055	0.0635	0.036059
50	2.5746	2.6823	2.7626	0.065662	2.6097	2.6966	2.8011	0.063391	-0.0334	0.01436	0.0739	0.035101
100	2.663	2.718	2.8055	0.04916	2.6439	2.7477	2.885	0.068893	-0.062	0.0297	0.0881	0.048528

Device Test: 18.25 CURRENT|SS_0p3V/SS/8/8/0/1000/5/100kHz//@I_SS

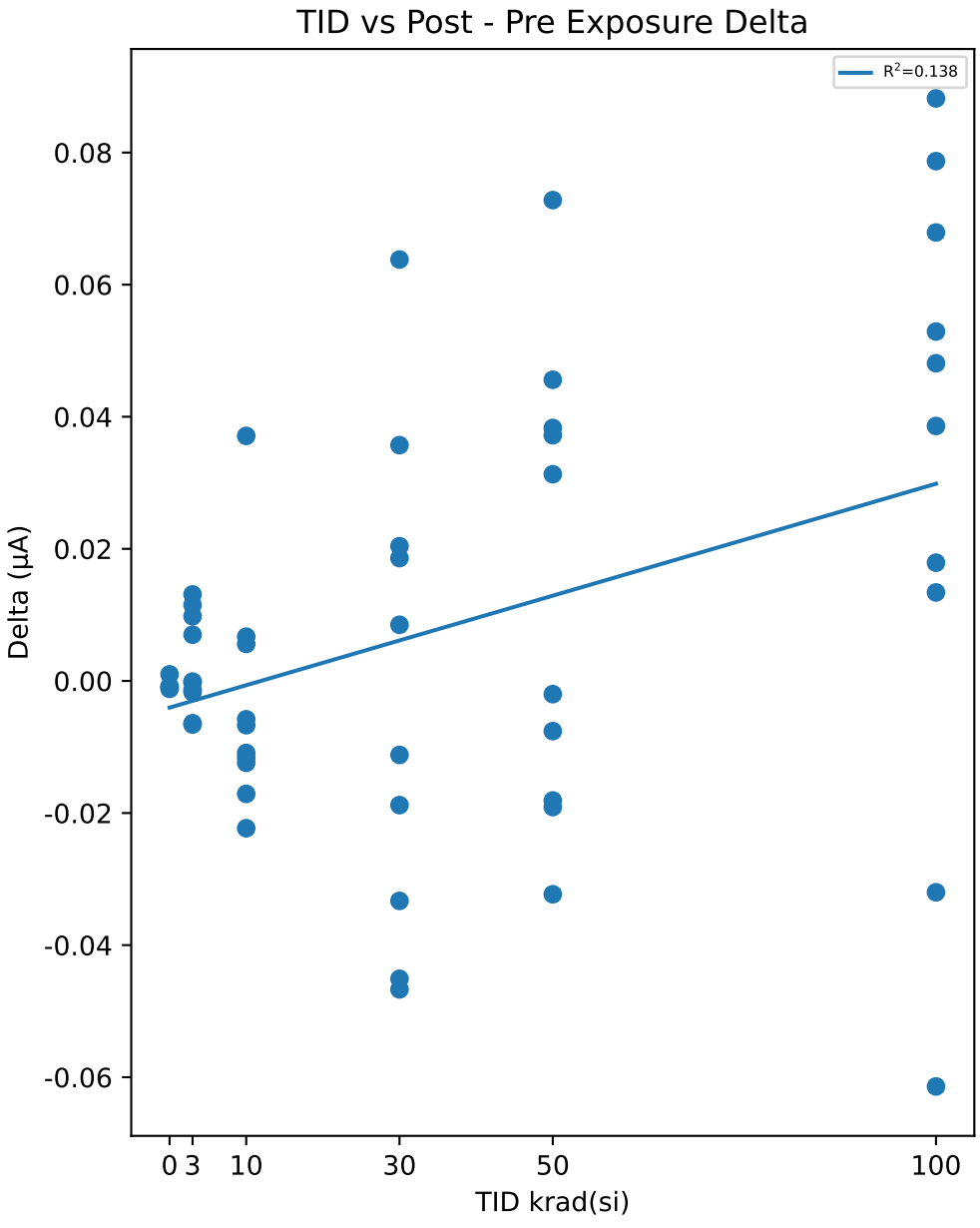
TID vs Result Stats



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.6631	2.6701	0.007
2	3	HDR BIAS	2.7045	2.6979	-0.0066
3	3	HDR BIAS	2.6695	2.6694	-0.0001
4	3	HDR BIAS	2.6744	2.6727	-0.0017
5	3	HDR BIAS	2.7515	2.7613	0.0098
6	3	HDR UNBIAS	2.6337	2.6452	0.0115
7	3	HDR UNBIAS	2.7657	2.7655	-0.0002
8	3	HDR UNBIAS	2.6482	2.6418	-0.0064
9	3	HDR UNBIAS	2.6371	2.6502	0.0131
10	3	HDR UNBIAS	2.5926	2.5913	-0.0013
11	10	HDR BIAS	2.6668	2.6497	-0.0171
12	10	HDR BIAS	2.786	2.7751	-0.0109
13	10	HDR BIAS	2.7054	2.711	0.0056
14	10	HDR BIAS	2.7393	2.7277	-0.0116
15	10	HDR BIAS	2.7783	2.756	-0.0223
16	10	HDR UNBIAS	2.6176	2.6118	-0.0058
17	10	HDR UNBIAS	2.5503	2.5874	0.0371
18	10	HDR UNBIAS	2.5623	2.5556	-0.0067
19	10	HDR UNBIAS	2.7071	2.7138	0.0067
20	10	HDR UNBIAS	2.562	2.5496	-0.0124
31	30	HDR BIAS	2.8594	2.8798	0.0204
32	30	HDR BIAS	2.7257	2.7895	0.0638
33	30	HDR BIAS	2.5408	2.5765	0.0357
34	30	HDR BIAS	2.7008	2.6675	-0.0333
35	30	HDR BIAS	2.7435	2.7323	-0.0112
36	30	HDR UNBIAS	2.8753	2.8302	-0.0451
37	30	HDR UNBIAS	2.6075	2.6261	0.0186
38	30	HDR UNBIAS	2.6969	2.7054	0.0085
39	30	HDR UNBIAS	2.6712	2.6245	-0.0467
40	30	HDR UNBIAS	2.7736	2.7548	-0.0188
41	50	HDR BIAS	2.6892	2.6701	-0.0191
42	50	HDR BIAS	2.706	2.7516	0.0456
43	50	HDR BIAS	2.675	2.673	-0.002
44	50	HDR BIAS	2.5817	2.6189	0.0372
45	50	HDR BIAS	2.5845	2.6573	0.0728
46	50	HDR UNBIAS	2.6987	2.6911	-0.0076
47	50	HDR UNBIAS	2.766	2.7973	0.0313
48	50	HDR UNBIAS	2.6757	2.6576	-0.0181
49	50	HDR UNBIAS	2.7437	2.7114	-0.0323
50	50	HDR UNBIAS	2.769	2.8073	0.0383
51	100	HDR BIAS	2.7546	2.8225	0.0679
52	100	HDR BIAS	2.6987	2.7166	0.0179
53	100	HDR BIAS	2.6936	2.7417	0.0481
54	100	HDR BIAS	2.67	2.7086	0.0386
55	100	HDR BIAS	2.8041	2.8923	0.0882
56	100	HDR UNBIAS	2.8115	2.7795	-0.032
57	100	HDR UNBIAS	2.6847	2.6981	0.0134
58	100	HDR UNBIAS	2.7129	2.6515	-0.0614
59	100	HDR UNBIAS	2.7016	2.7803	0.0787
60	100	HDR UNBIAS	2.7165	2.7694	0.0529
91	0	CORRELATION	2.5626	2.5617	-0.0009
92	0	CORRELATION	2.5572	2.5582	0.001
93	0	CORRELATION	2.7569	2.7561	-0.0008
94	0	CORRELATION	2.6973	2.6961	-0.0012

TID vs Post - Pre Exposure Delta

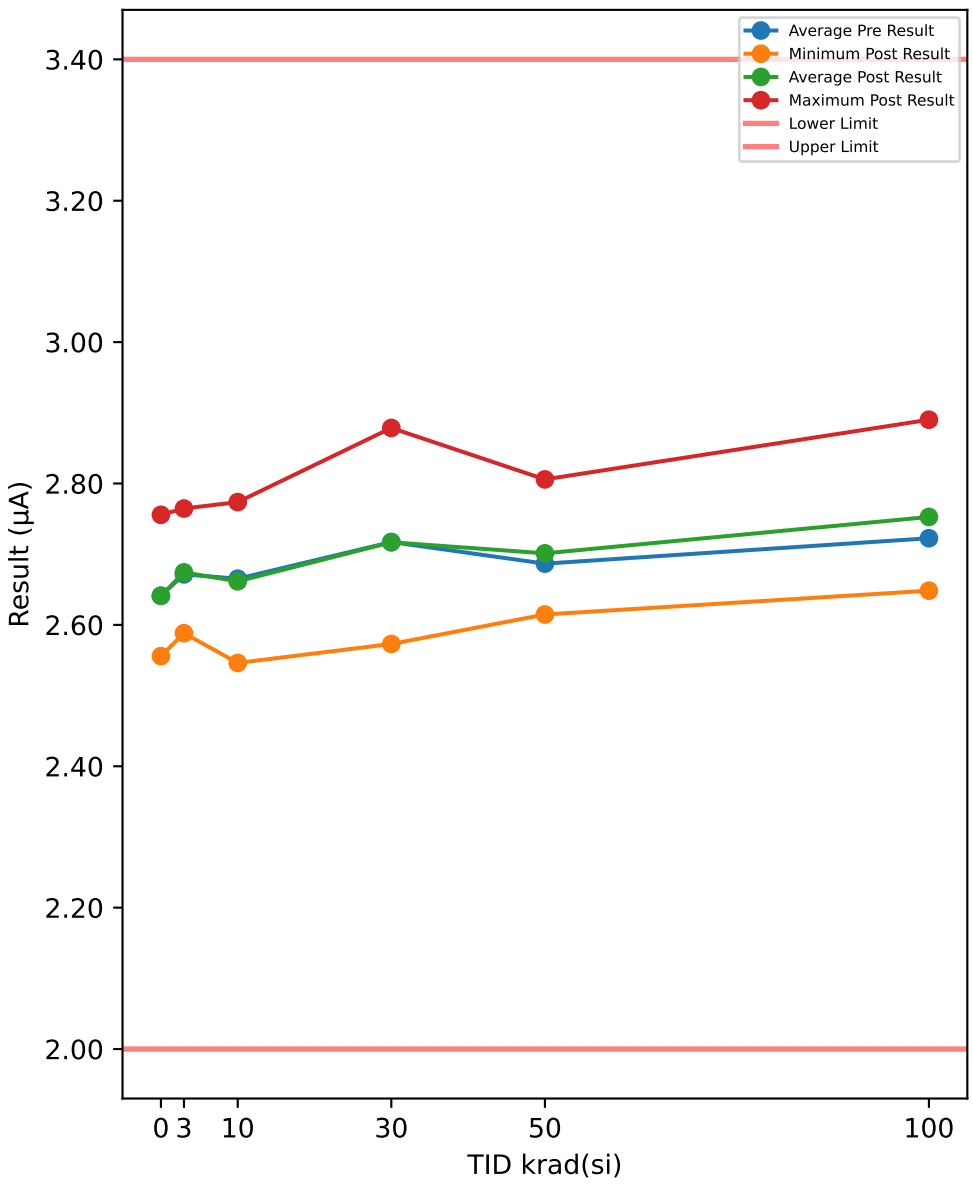


Test Statistics (µA)

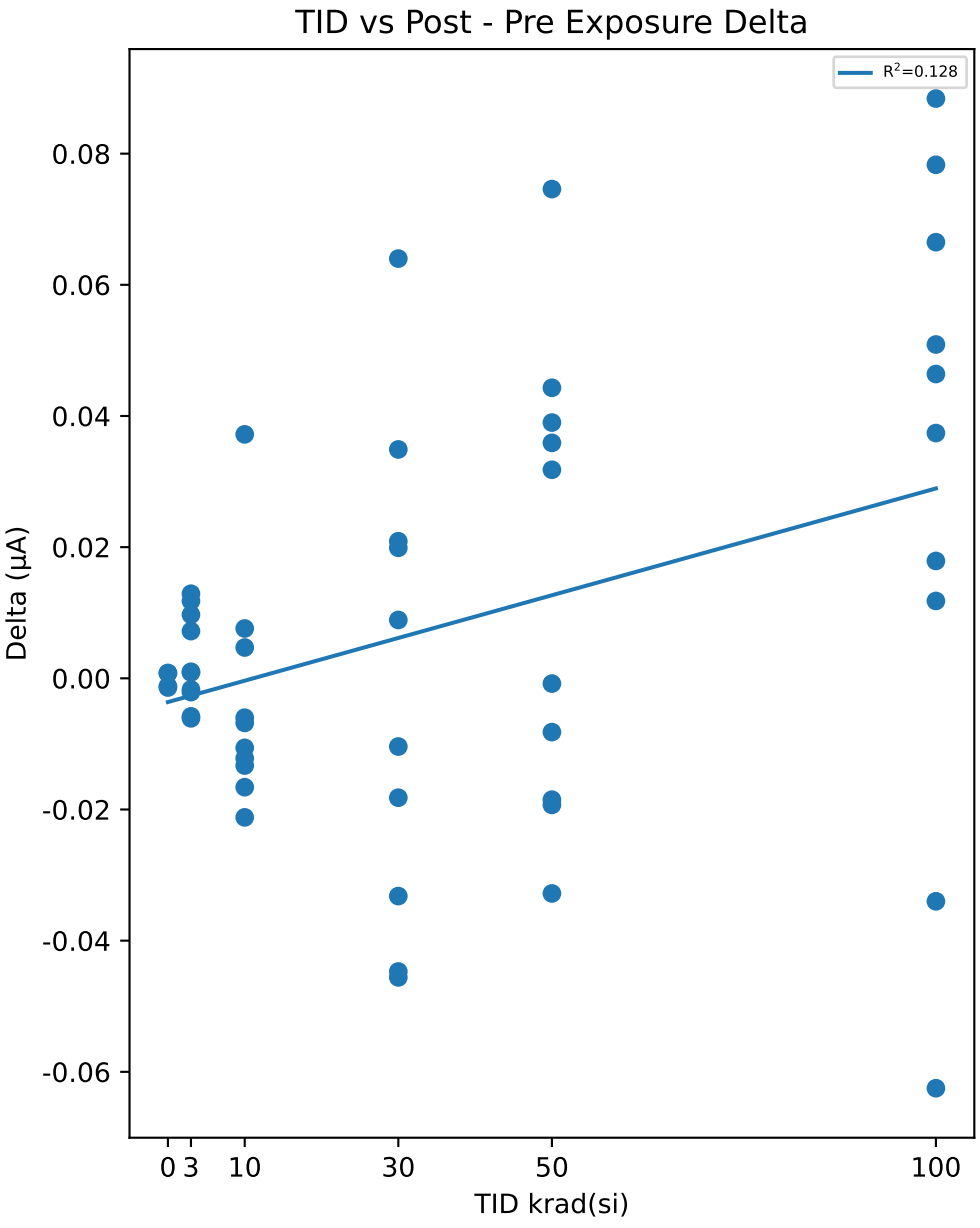
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5572	2.6435	2.7569	0.099577	2.5582	2.643	2.7561	0.099015	-0.0012	-0.000475	0.001	0.00099791
3	2.5926	2.674	2.7657	0.053502	2.5913	2.6765	2.7655	0.053552	-0.0066	0.00251	0.0131	0.0072652
10	2.5503	2.6675	2.786	0.090001	2.5496	2.6638	2.7751	0.083791	-0.0223	-0.00374	0.0371	0.016958
30	2.5408	2.7195	2.8753	0.10277	2.5765	2.7187	2.8798	0.097385	-0.0467	-0.00081	0.0638	0.036477
50	2.5817	2.6889	2.769	0.065414	2.6189	2.7036	2.8073	0.062846	-0.0323	0.01461	0.0728	0.034757
100	2.67	2.7248	2.8115	0.049112	2.6515	2.7561	2.8923	0.068798	-0.0614	0.03123	0.0882	0.047989

Device Test: 18.29 CURRENT|SS_0p3V/SS/8/8/0/1000/5/500kHz//@I_SS

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

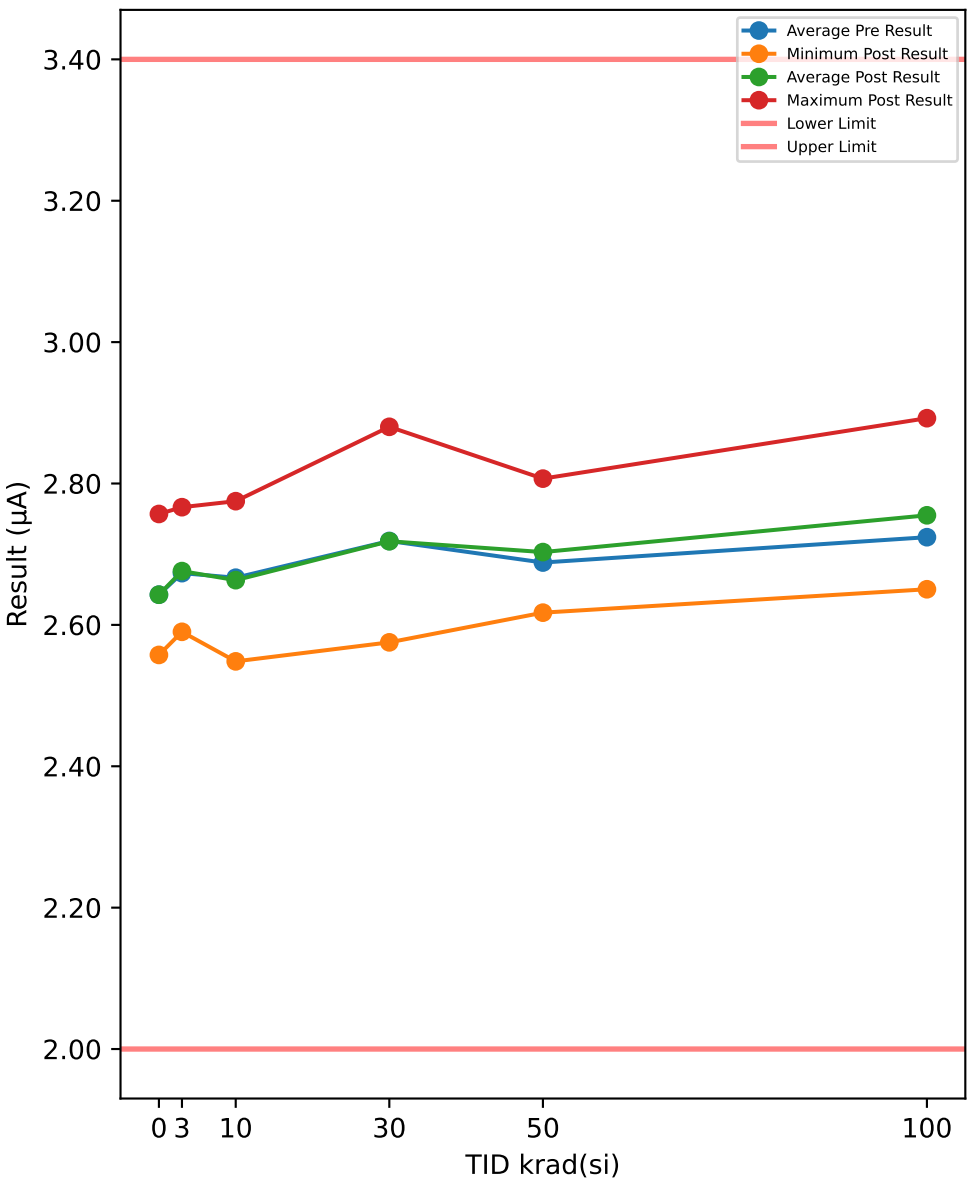
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.6605	2.6677	0.0072
2	3	HDR BIAS	2.7017	2.6956	-0.0061
3	3	HDR BIAS	2.6669	2.6678	0.0009
4	3	HDR BIAS	2.672	2.6699	-0.0021
5	3	HDR BIAS	2.7495	2.7592	0.0097
6	3	HDR UNBIAS	2.6309	2.6427	0.0118
7	3	HDR UNBIAS	2.7636	2.7646	0.001
8	3	HDR UNBIAS	2.6457	2.6399	-0.0058
9	3	HDR UNBIAS	2.6344	2.6473	0.0129
10	3	HDR UNBIAS	2.5899	2.5882	-0.0017
11	10	HDR BIAS	2.6648	2.6482	-0.0166
12	10	HDR BIAS	2.7843	2.7737	-0.0106
13	10	HDR BIAS	2.7033	2.708	0.0047
14	10	HDR BIAS	2.7374	2.7252	-0.0122
15	10	HDR BIAS	2.7759	2.7547	-0.0212
16	10	HDR UNBIAS	2.6156	2.6096	-0.006
17	10	HDR UNBIAS	2.5478	2.585	0.0372
18	10	HDR UNBIAS	2.5592	2.5524	-0.0068
19	10	HDR UNBIAS	2.7051	2.7127	0.0076
20	10	HDR UNBIAS	2.5595	2.5462	-0.0133
31	30	HDR BIAS	2.8577	2.8786	0.0209
32	30	HDR BIAS	2.7235	2.7875	0.064
33	30	HDR BIAS	2.5381	2.573	0.0349
34	30	HDR BIAS	2.6985	2.6653	-0.0332
35	30	HDR BIAS	2.7411	2.7307	-0.0104
36	30	HDR UNBIAS	2.873	2.8274	-0.0456
37	30	HDR UNBIAS	2.6046	2.6245	0.0199
38	30	HDR UNBIAS	2.6944	2.7033	0.0089
39	30	HDR UNBIAS	2.6691	2.6244	-0.0447
40	30	HDR UNBIAS	2.772	2.7538	-0.0182
41	50	HDR BIAS	2.6873	2.668	-0.0193
42	50	HDR BIAS	2.7039	2.7482	0.0443
43	50	HDR BIAS	2.6722	2.6714	-0.0008
44	50	HDR BIAS	2.5788	2.6147	0.0359
45	50	HDR BIAS	2.582	2.6566	0.0746
46	50	HDR UNBIAS	2.6968	2.6886	-0.0082
47	50	HDR UNBIAS	2.7639	2.7957	0.0318
48	50	HDR UNBIAS	2.6733	2.6548	-0.0185
49	50	HDR UNBIAS	2.7413	2.7085	-0.0328
50	50	HDR UNBIAS	2.7668	2.8058	0.039
51	100	HDR BIAS	2.7521	2.8186	0.0665
52	100	HDR BIAS	2.6966	2.7145	0.0179
53	100	HDR BIAS	2.6915	2.7379	0.0464
54	100	HDR BIAS	2.6674	2.7048	0.0374
55	100	HDR BIAS	2.8018	2.8902	0.0884
56	100	HDR UNBIAS	2.8094	2.7754	-0.034
57	100	HDR UNBIAS	2.6827	2.6945	0.0118
58	100	HDR UNBIAS	2.7109	2.6484	-0.0625
59	100	HDR UNBIAS	2.6995	2.7778	0.0783
60	100	HDR UNBIAS	2.7139	2.7648	0.0509
91	0	CORRELATION	2.5602	2.559	-0.0012
92	0	CORRELATION	2.555	2.5558	0.0008
93	0	CORRELATION	2.7549	2.7557	0.0008
94	0	CORRELATION	2.695	2.6936	-0.0014

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.555	2.6413	2.7549	0.099689	2.5558	2.641	2.7557	0.099843	-0.0014	-0.00025	0.0008	0.0012152
3	2.5899	2.6715	2.7636	0.053717	2.5882	2.6743	2.7646	0.054001	-0.0061	0.00278	0.0129	0.0071044
10	2.5478	2.6653	2.7843	0.090276	2.5462	2.6616	2.7737	0.084351	-0.0212	-0.00372	0.0372	0.0169
30	2.5381	2.7172	2.873	0.10305	2.573	2.7168	2.8786	0.097492	-0.0456	-0.00035	0.064	0.036277
50	2.5788	2.6866	2.7668	0.065616	2.6147	2.7012	2.8058	0.063164	-0.0328	0.0146	0.0746	0.03508
100	2.6674	2.7226	2.8094	0.049109	2.6484	2.7527	2.8902	0.068944	-0.0625	0.03011	0.0884	0.048265

Device Test: 18.9 CURRENT|SS_0p3V/SS/12/12/0/1000/5/100kHz//@I_SS

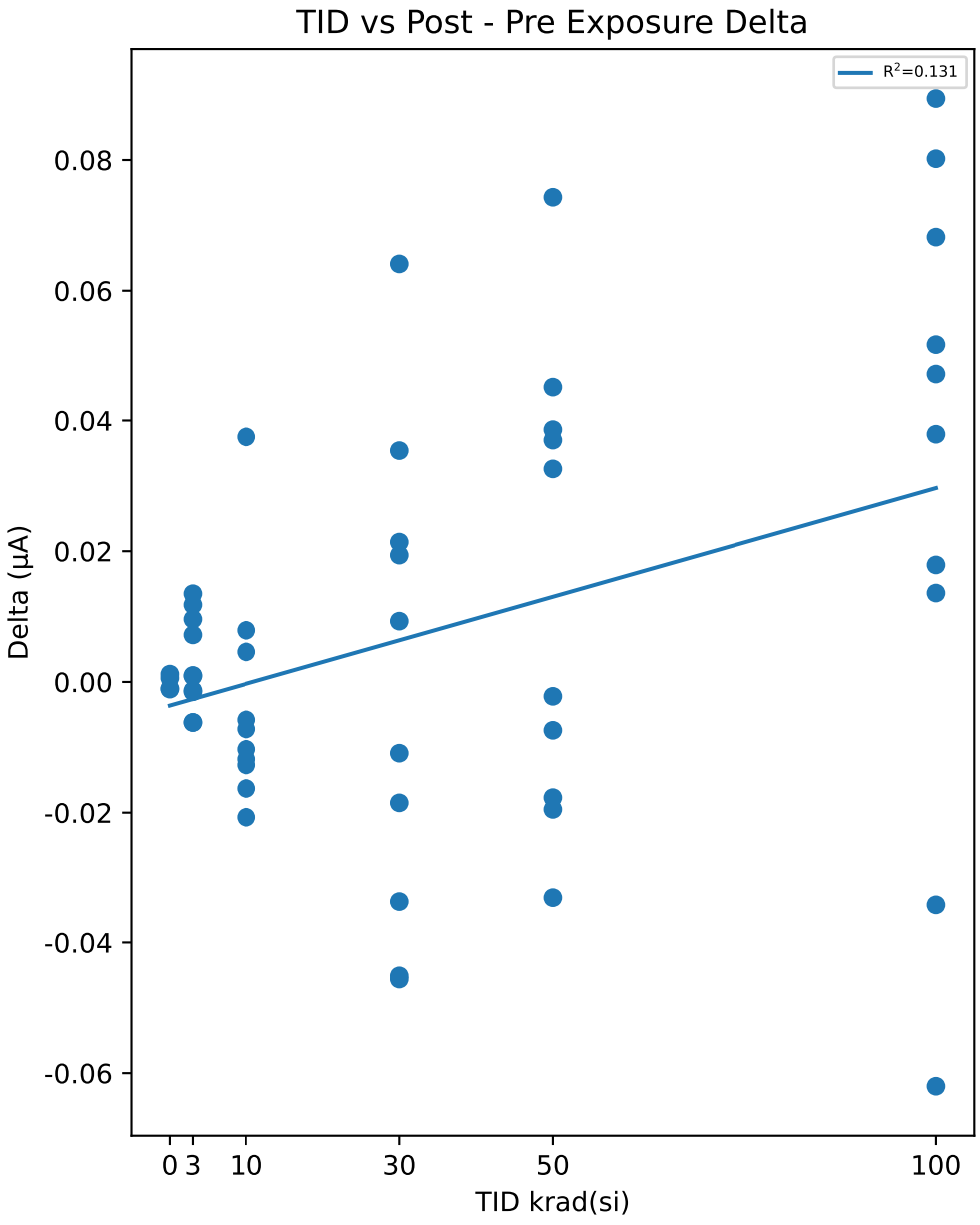
TID vs Result Stats



Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.6621	2.6693	0.0072
2	3	HDR BIAS	2.7033	2.6971	-0.0062
3	3	HDR BIAS	2.6687	2.6697	0.001
4	3	HDR BIAS	2.6733	2.6718	-0.0015
5	3	HDR BIAS	2.7511	2.7607	0.0096
6	3	HDR UNBIAS	2.6328	2.6446	0.0118
7	3	HDR UNBIAS	2.7656	2.7665	0.0009
8	3	HDR UNBIAS	2.6474	2.6412	-0.0062
9	3	HDR UNBIAS	2.6363	2.6498	0.0135
10	3	HDR UNBIAS	2.5915	2.5902	-0.0013
11	10	HDR BIAS	2.6662	2.6499	-0.0163
12	10	HDR BIAS	2.7853	2.775	-0.0103
13	10	HDR BIAS	2.705	2.7096	0.0046
14	10	HDR BIAS	2.7385	2.7267	-0.0118
15	10	HDR BIAS	2.7774	2.7567	-0.0207
16	10	HDR UNBIAS	2.6172	2.6114	-0.0058
17	10	HDR UNBIAS	2.549	2.5865	0.0375
18	10	HDR UNBIAS	2.5613	2.5541	-0.0072
19	10	HDR UNBIAS	2.7064	2.7143	0.0079
20	10	HDR UNBIAS	2.5611	2.5484	-0.0127
31	30	HDR BIAS	2.8588	2.8802	0.0214
32	30	HDR BIAS	2.7246	2.7887	0.0641
33	30	HDR BIAS	2.5399	2.5753	0.0354
34	30	HDR BIAS	2.6997	2.6661	-0.0336
35	30	HDR BIAS	2.7429	2.732	-0.0109
36	30	HDR UNBIAS	2.8748	2.8292	-0.0456
37	30	HDR UNBIAS	2.6066	2.626	0.0194
38	30	HDR UNBIAS	2.6959	2.7052	0.0093
39	30	HDR UNBIAS	2.6703	2.6252	-0.0451
40	30	HDR UNBIAS	2.7736	2.7551	-0.0185
41	50	HDR BIAS	2.6887	2.6692	-0.0195
42	50	HDR BIAS	2.7055	2.7506	0.0451
43	50	HDR BIAS	2.6745	2.6723	-0.0022
44	50	HDR BIAS	2.5803	2.6173	0.037
45	50	HDR BIAS	2.5836	2.6579	0.0743
46	50	HDR UNBIAS	2.6982	2.6908	-0.0074
47	50	HDR UNBIAS	2.7654	2.798	0.0326
48	50	HDR UNBIAS	2.6745	2.6568	-0.0177
49	50	HDR UNBIAS	2.7431	2.7101	-0.033
50	50	HDR UNBIAS	2.7683	2.8069	0.0386
51	100	HDR BIAS	2.7534	2.8216	0.0682
52	100	HDR BIAS	2.6982	2.7161	0.0179
53	100	HDR BIAS	2.6923	2.7394	0.0471
54	100	HDR BIAS	2.6696	2.7075	0.0379
55	100	HDR BIAS	2.803	2.8924	0.0894
56	100	HDR UNBIAS	2.8109	2.7768	-0.0341
57	100	HDR UNBIAS	2.6842	2.6978	0.0136
58	100	HDR UNBIAS	2.7124	2.6504	-0.062
59	100	HDR UNBIAS	2.7008	2.781	0.0802
60	100	HDR UNBIAS	2.7156	2.7672	0.0516
91	0	CORRELATION	2.5614	2.5604	-0.001
92	0	CORRELATION	2.5563	2.5575	0.0012
93	0	CORRELATION	2.7563	2.7569	0.0006
94	0	CORRELATION	2.697	2.6959	-0.0011

TID vs Post - Pre Exposure Delta

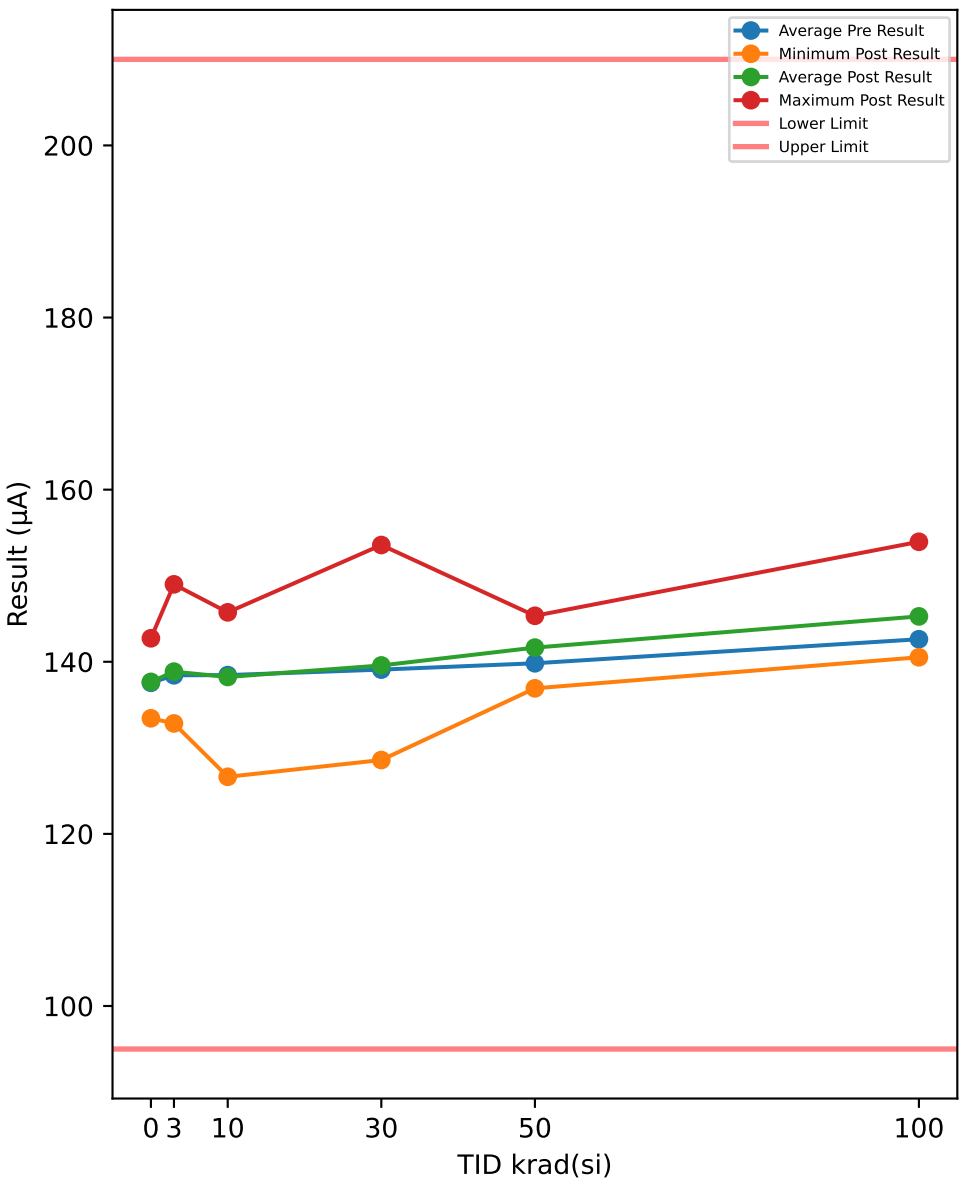


Test Statistics (µA)

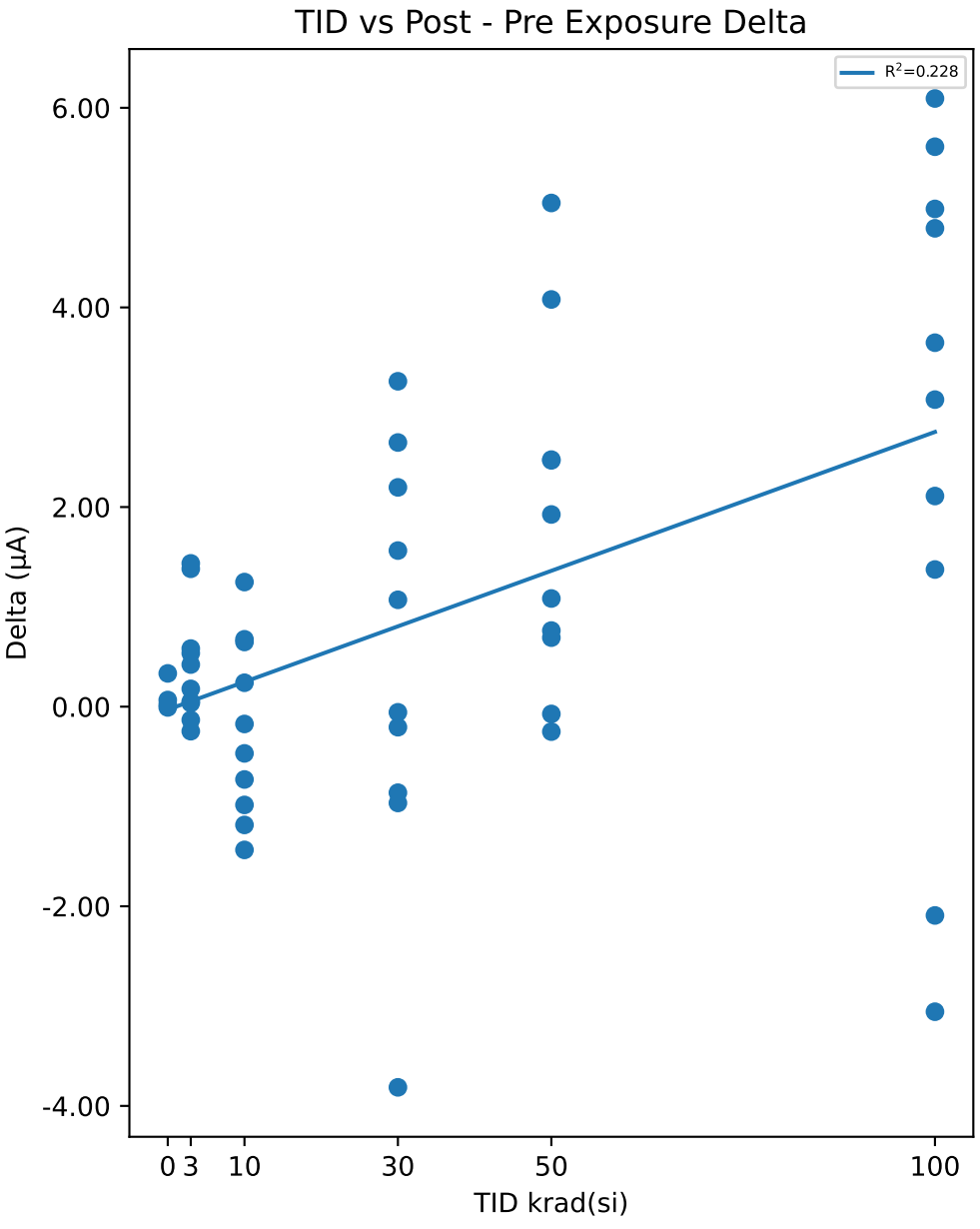
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5563	2.6427	2.7563	0.09988	2.5575	2.6427	2.7569	0.09984	-0.0011	-7.5e-05	0.0012	0.0011529
3	2.5915	2.6732	2.7656	0.053738	2.5902	2.6761	2.7665	0.05391	-0.0062	0.00288	0.0135	0.0071893
10	2.549	2.6667	2.7853	0.090113	2.5484	2.6633	2.775	0.084237	-0.0207	-0.00348	0.0375	0.016849
30	2.5399	2.7187	2.8748	0.10295	2.5753	2.7183	2.8802	0.097491	-0.0456	-0.00041	0.0641	0.036491
50	2.5803	2.6882	2.7683	0.065615	2.6173	2.703	2.8069	0.063143	-0.033	0.01478	0.0743	0.035172
100	2.6696	2.724	2.8109	0.049006	2.6504	2.755	2.8924	0.068993	-0.062	0.03098	0.0894	0.048657

Device Test: 19.10 CURRENT|EA_SOURCE//12/12/0/0/5/500kHz//@EA_I_SOURCE

TID vs Result Stats



TID vs Post - Pre Exposure Delta



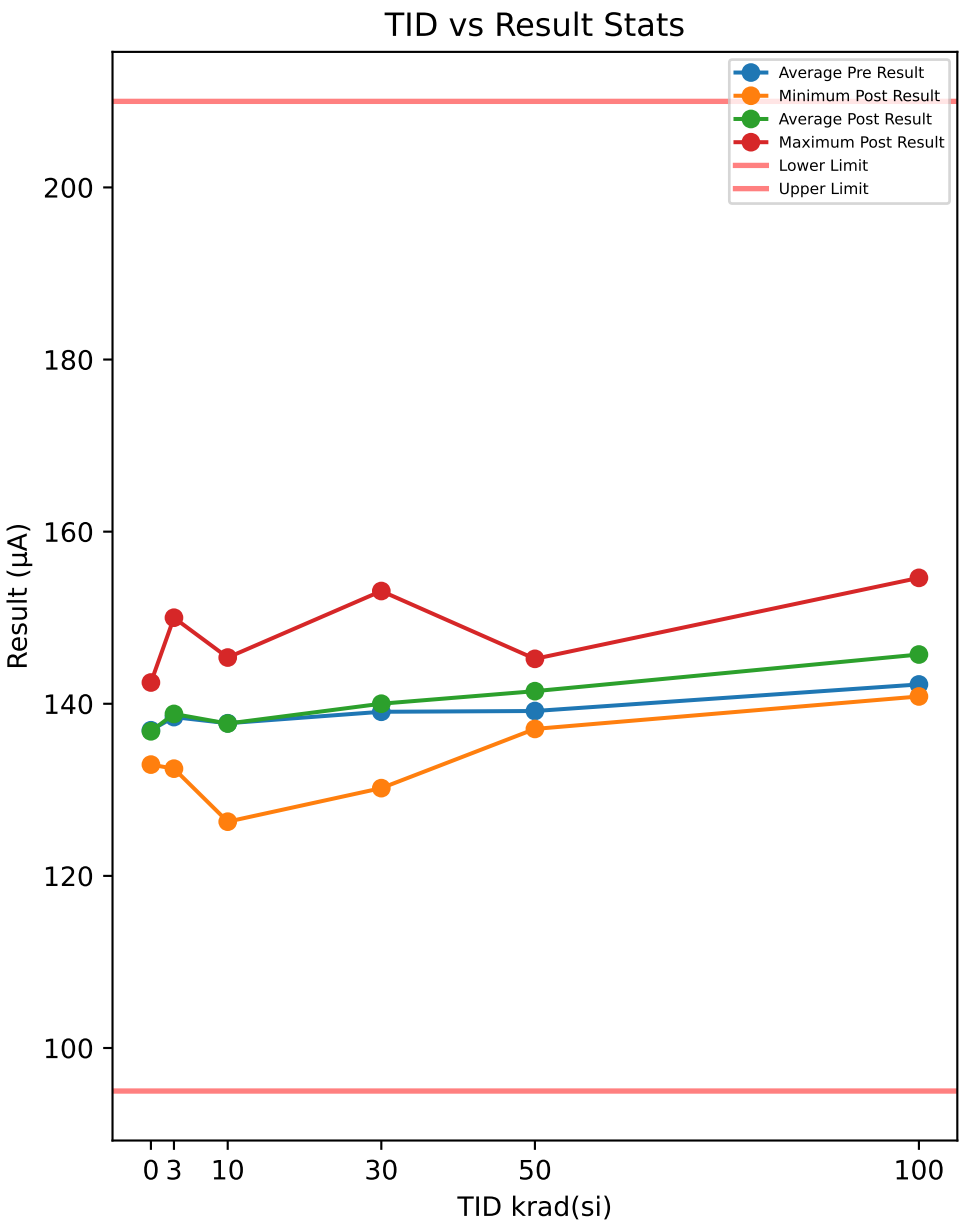
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

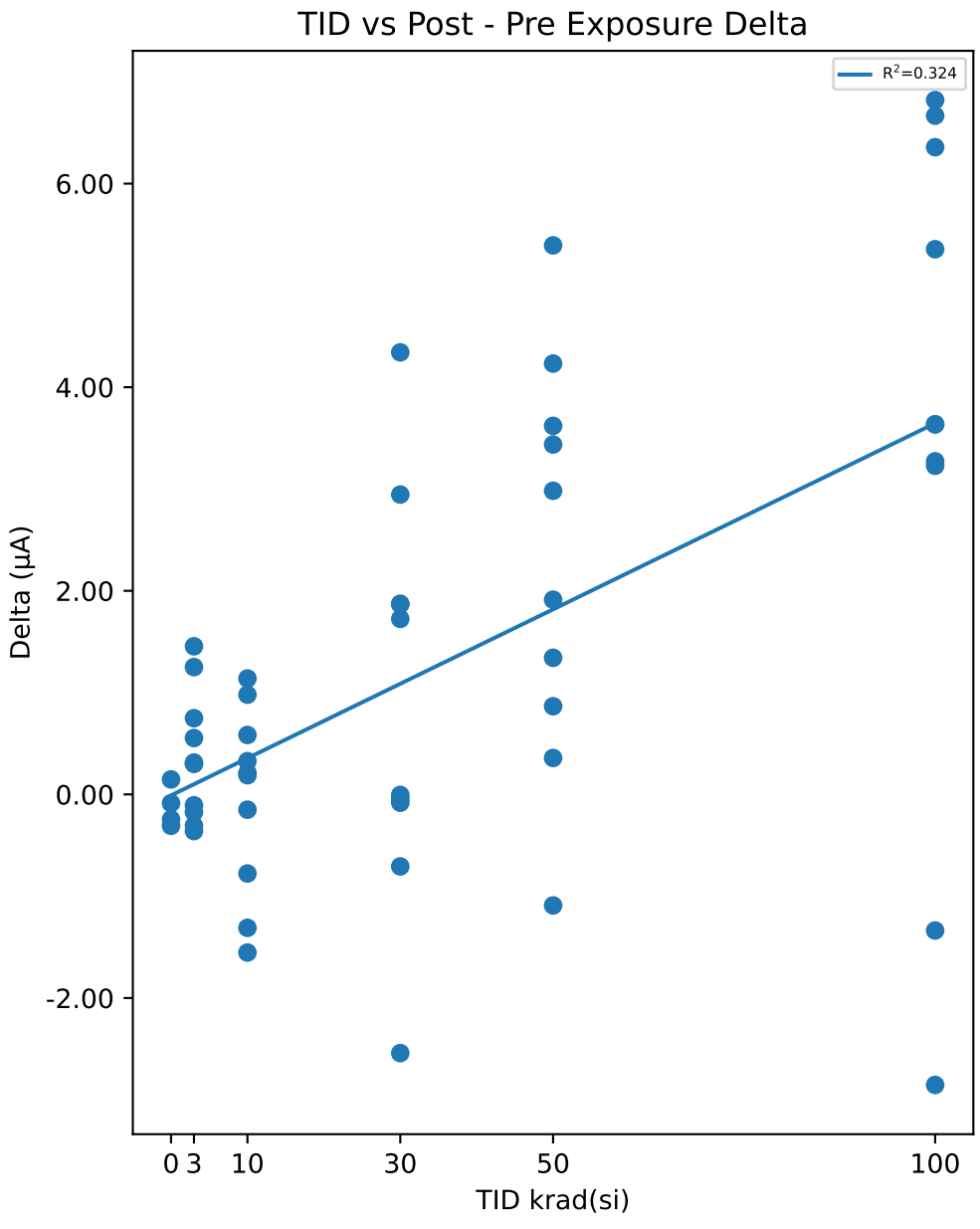
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	138.31	138.73	0.422
2	3	HDR BIAS	136.07	135.83	-0.2458
3	3	HDR BIAS	137.76	137.81	0.052
4	3	HDR BIAS	138.75	139.33	0.5821
5	3	HDR BIAS	144.21	145.65	1.4356
6	3	HDR UNBIAS	132.3	132.83	0.5359
7	3	HDR UNBIAS	148.96	149	0.0363
8	3	HDR UNBIAS	133.68	133.55	-0.1328
9	3	HDR UNBIAS	141.06	142.44	1.3814
10	3	HDR UNBIAS	133.16	133.34	0.1782
11	10	HDR BIAS	137.27	136.08	-1.1849
12	10	HDR BIAS	146.21	145.74	-0.4682
13	10	HDR BIAS	141.86	142.54	0.675
14	10	HDR BIAS	140.72	140.96	0.2396
15	10	HDR BIAS	146.31	144.87	-1.4351
16	10	HDR UNBIAS	132.44	132.26	-0.1734
17	10	HDR UNBIAS	125.99	126.63	0.648
18	10	HDR UNBIAS	139.49	138.51	-0.9845
19	10	HDR UNBIAS	142.96	144.21	1.2484
20	10	HDR UNBIAS	131.27	130.54	-0.7295
31	30	HDR BIAS	144.31	146.51	2.197
32	30	HDR BIAS	138.46	141.72	3.2601
33	30	HDR BIAS	131.48	133.05	1.5639
34	30	HDR BIAS	136.4	137.47	1.0706
35	30	HDR BIAS	138.4	138.19	-0.2057
36	30	HDR UNBIAS	153.62	153.57	-0.0566
37	30	HDR UNBIAS	129.55	128.58	-0.9648
38	30	HDR UNBIAS	133.65	136.3	2.6466
39	30	HDR UNBIAS	140.68	136.87	-3.814
40	30	HDR UNBIAS	144.34	143.48	-0.862
41	50	HDR BIAS	145.22	145.14	-0.0728
42	50	HDR BIAS	142.85	144.78	1.9256
43	50	HDR BIAS	138.09	138.85	0.7626
44	50	HDR BIAS	134.44	136.91	2.4751
45	50	HDR BIAS	134.18	138.26	4.0798
46	50	HDR UNBIAS	139.88	142.35	2.4678
47	50	HDR UNBIAS	135	140.05	5.0465
48	50	HDR UNBIAS	141.88	141.63	-0.2501
49	50	HDR UNBIAS	142.05	143.13	1.0837
50	50	HDR UNBIAS	144.65	145.34	0.6916
51	100	HDR BIAS	148.25	149.63	1.3741
52	100	HDR BIAS	139.03	143.83	4.7926
53	100	HDR BIAS	143.08	148.07	4.9869
54	100	HDR BIAS	141.56	143.67	2.1104
55	100	HDR BIAS	148.33	153.94	5.61
56	100	HDR UNBIAS	144.93	141.88	-3.0563
57	100	HDR UNBIAS	137.45	140.53	3.0763
58	100	HDR UNBIAS	142.93	140.84	-2.0918
59	100	HDR UNBIAS	138.05	144.15	6.0933
60	100	HDR UNBIAS	142.57	146.21	3.6465
91	0	CORRELATION	135.92	135.94	0.0205
92	0	CORRELATION	133.37	133.43	0.0667
93	0	CORRELATION	142.4	142.73	0.3333
94	0	CORRELATION	138.56	138.55	-0.0077

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	133.37	137.56	142.4	3.8586	133.43	137.66	142.73	3.9717	-0.0077	0.1032	0.3333	0.15644
3	132.3	138.43	148.96	5.2203	132.83	138.85	149	5.4486	-0.2458	0.42449	1.4356	0.58549
10	125.99	138.45	146.31	6.7059	126.63	138.23	145.74	6.6356	-1.4351	-0.21646	1.2484	0.89673
30	129.55	139.09	153.62	7.1125	128.58	139.57	153.57	7.0837	-3.814	0.48351	3.2601	2.1076
50	134.18	139.82	145.22	4.1872	136.91	141.65	145.34	3.0295	-0.2501	1.821	5.0465	1.7378
100	137.45	142.62	148.33	3.8241	140.53	145.27	153.94	4.2489	-3.0563	2.6542	6.0933	3.1413

Device Test: 19.11 CURRENT|EA_SINK//12/12/0/0/5/500kHz//@EA_I_SINK





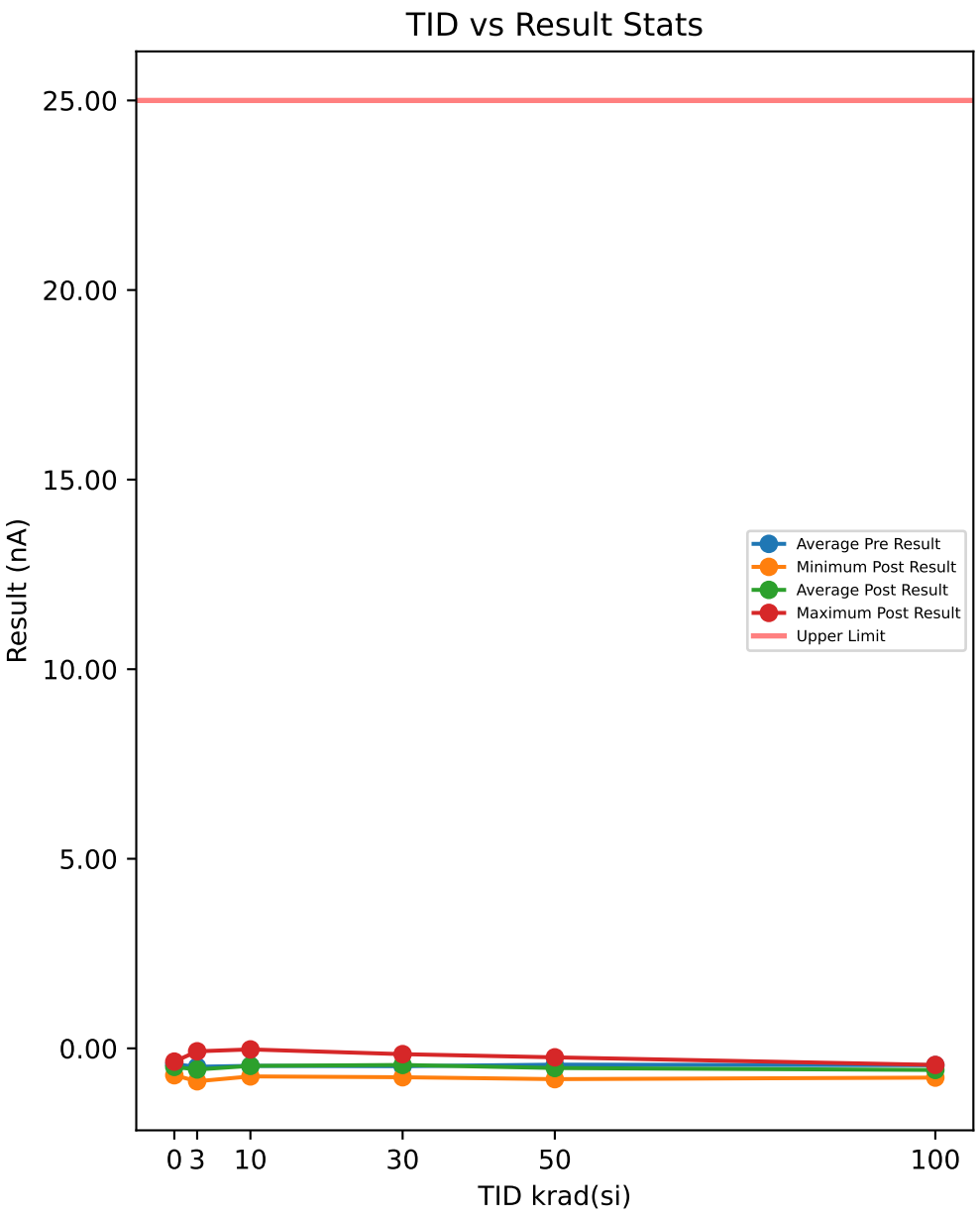
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

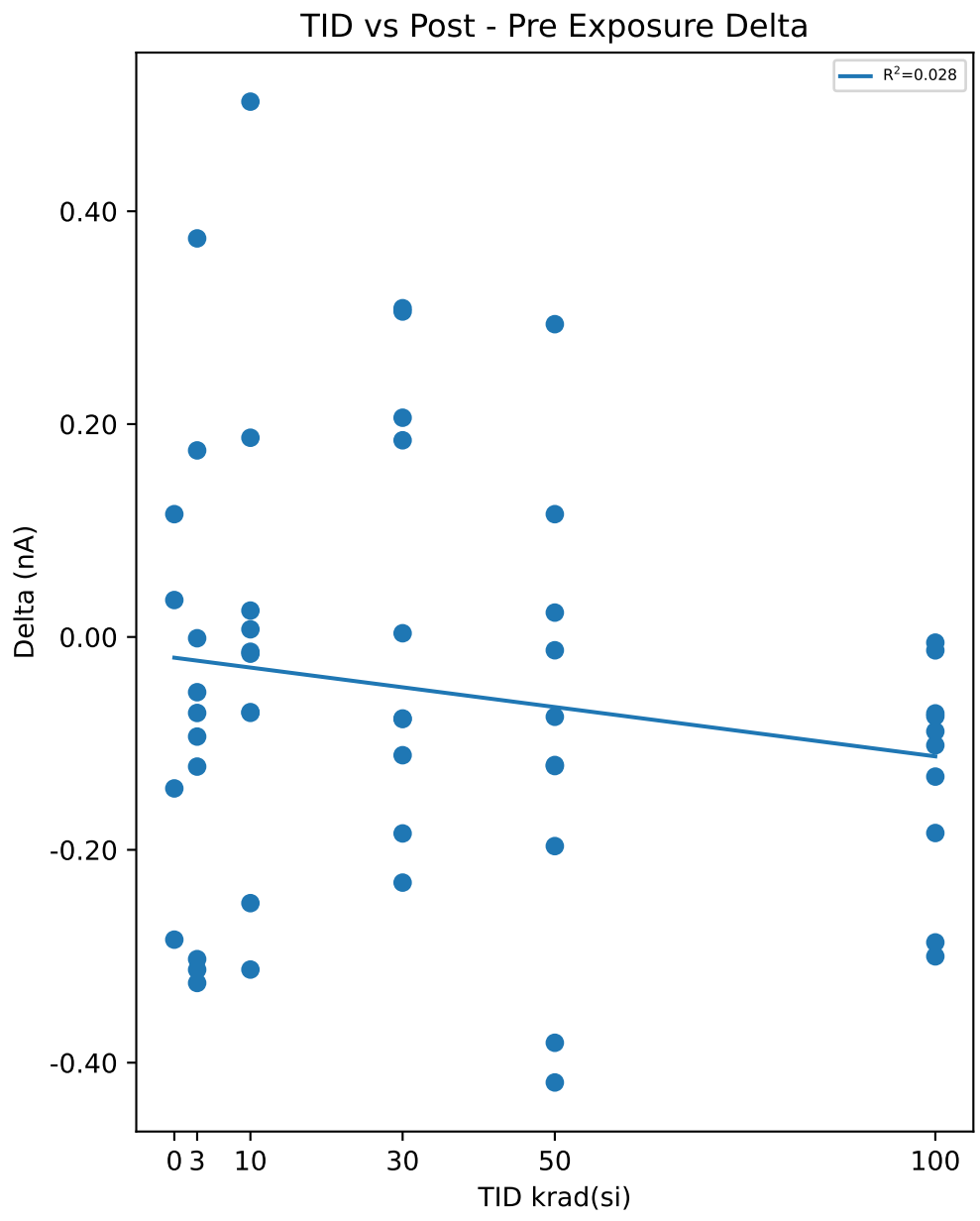
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	138.48	138.78	0.2995
2	3	HDR BIAS	135.88	135.52	-0.36
3	3	HDR BIAS	137.43	137.75	0.3132
4	3	HDR BIAS	138.48	138.3	-0.1746
5	3	HDR BIAS	143.57	145.03	1.4551
6	3	HDR UNBIAS	131.91	132.46	0.5537
7	3	HDR UNBIAS	149.25	150	0.7487
8	3	HDR UNBIAS	134.21	133.9	-0.3075
9	3	HDR UNBIAS	141.3	142.55	1.2506
10	3	HDR UNBIAS	134.02	133.91	-0.1068
11	10	HDR BIAS	135.97	134.66	-1.3106
12	10	HDR BIAS	145.16	145.37	0.2118
13	10	HDR BIAS	141.84	142.42	0.5839
14	10	HDR BIAS	140.62	140.81	0.1888
15	10	HDR BIAS	145.47	143.92	-1.5533
16	10	HDR UNBIAS	131.13	131.45	0.3266
17	10	HDR UNBIAS	125.16	126.3	1.1388
18	10	HDR UNBIAS	139.29	138.51	-0.7771
19	10	HDR UNBIAS	141.55	142.53	0.9796
20	10	HDR UNBIAS	131.19	131.04	-0.15
31	30	HDR BIAS	144.04	145.91	1.8685
32	30	HDR BIAS	138.61	142.95	4.3423
33	30	HDR BIAS	130.74	132.62	1.8724
34	30	HDR BIAS	135.12	136.84	1.7243
35	30	HDR BIAS	137.86	137.81	-0.046
36	30	HDR UNBIAS	153.11	153.1	-0.0049
37	30	HDR UNBIAS	130.28	130.2	-0.0813
38	30	HDR UNBIAS	134.68	137.63	2.9454
39	30	HDR UNBIAS	141.55	139.01	-2.5412
40	30	HDR UNBIAS	144.73	144.02	-0.7073
41	50	HDR BIAS	143.07	141.98	-1.0906
42	50	HDR BIAS	142.21	145.19	2.9824
43	50	HDR BIAS	137.19	139.1	1.9127
44	50	HDR BIAS	133.46	137.08	3.6202
45	50	HDR BIAS	134.45	138.68	4.232
46	50	HDR UNBIAS	138.76	142.2	3.4371
47	50	HDR UNBIAS	133.68	139.07	5.3934
48	50	HDR UNBIAS	143.02	144.37	1.3421
49	50	HDR UNBIAS	140.9	141.76	0.8663
50	50	HDR UNBIAS	144.86	145.22	0.358
51	100	HDR BIAS	147.42	150.69	3.2719
52	100	HDR BIAS	138.35	143.71	5.3555
53	100	HDR BIAS	142.41	148.77	6.3578
54	100	HDR BIAS	139.63	143.27	3.6357
55	100	HDR BIAS	147.96	154.63	6.6672
56	100	HDR UNBIAS	145.74	142.89	-2.8539
57	100	HDR UNBIAS	137.62	140.85	3.2283
58	100	HDR UNBIAS	143.75	142.42	-1.3371
59	100	HDR UNBIAS	137.73	144.55	6.8206
60	100	HDR UNBIAS	141.83	145.47	3.6353
91	0	CORRELATION	134.74	134.66	-0.0858
92	0	CORRELATION	132.78	132.93	0.147
93	0	CORRELATION	142.78	142.47	-0.3085
94	0	CORRELATION	137.38	137.14	-0.245

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	132.78	136.92	142.78	4.3353	132.93	136.8	142.47	4.1564	-0.3085	-0.12307	0.147	0.20296
3	131.91	138.45	149.25	5.155	132.46	138.82	150	5.5632	-0.36	0.36719	1.4551	0.63718
10	125.16	137.74	145.47	6.7073	126.3	137.7	145.37	6.4645	-1.5533	-0.03615	1.1388	0.91459
30	130.28	139.07	153.11	7.0162	130.2	140.01	153.1	6.6952	-2.5412	0.93722	4.3423	1.9912
50	133.46	139.16	144.86	4.2675	137.08	141.46	145.22	2.8987	-1.0906	2.3054	5.3934	1.9775
100	137.62	142.25	147.96	3.9152	140.85	145.72	154.63	4.315	-2.8539	3.4781	6.8206	3.2761

Device Test: 19.12 CURRENT|EA//12/12/0/0/5/500kHz//@EA_IB





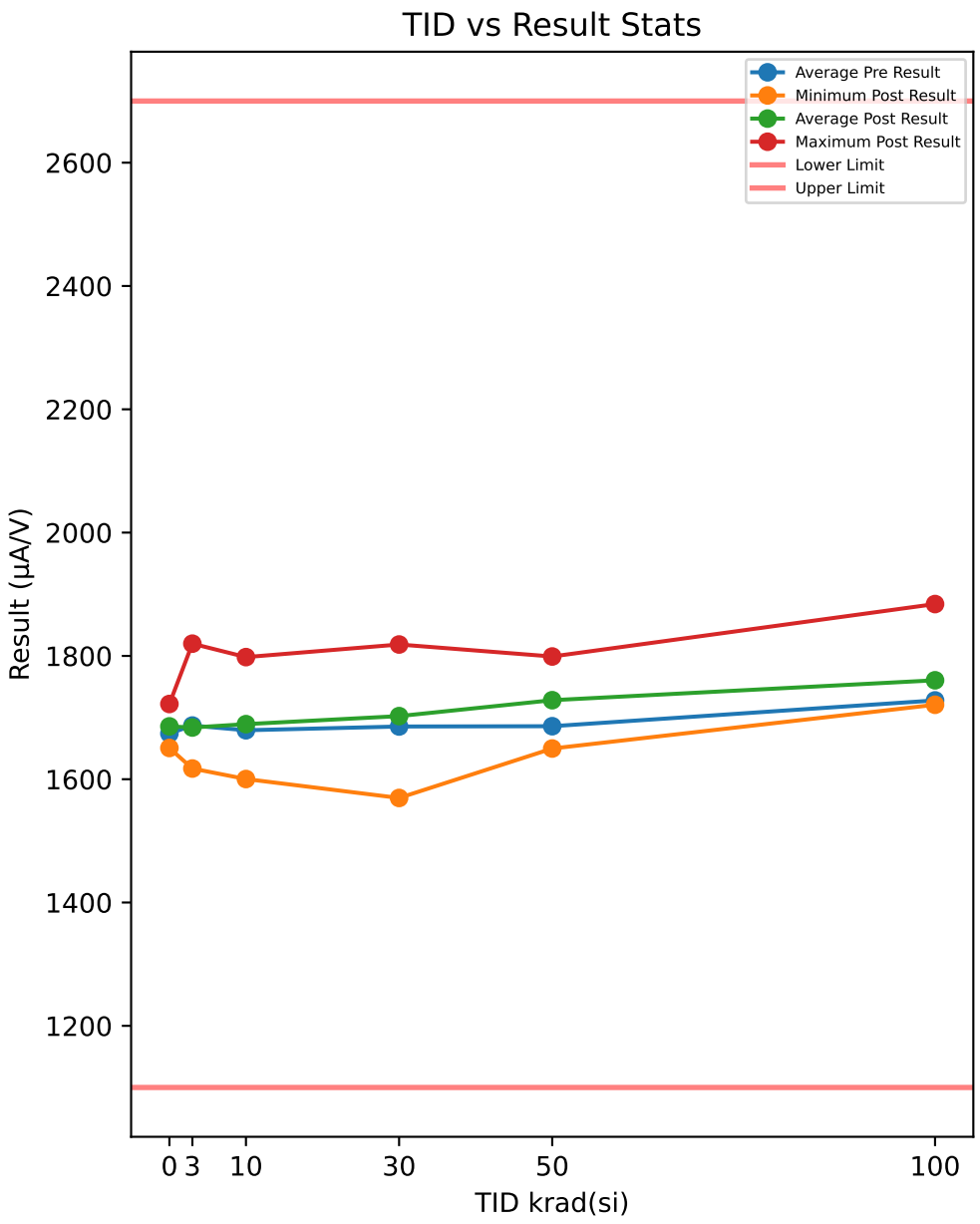
Test Results (Upper Limit = 25.0 (nA))

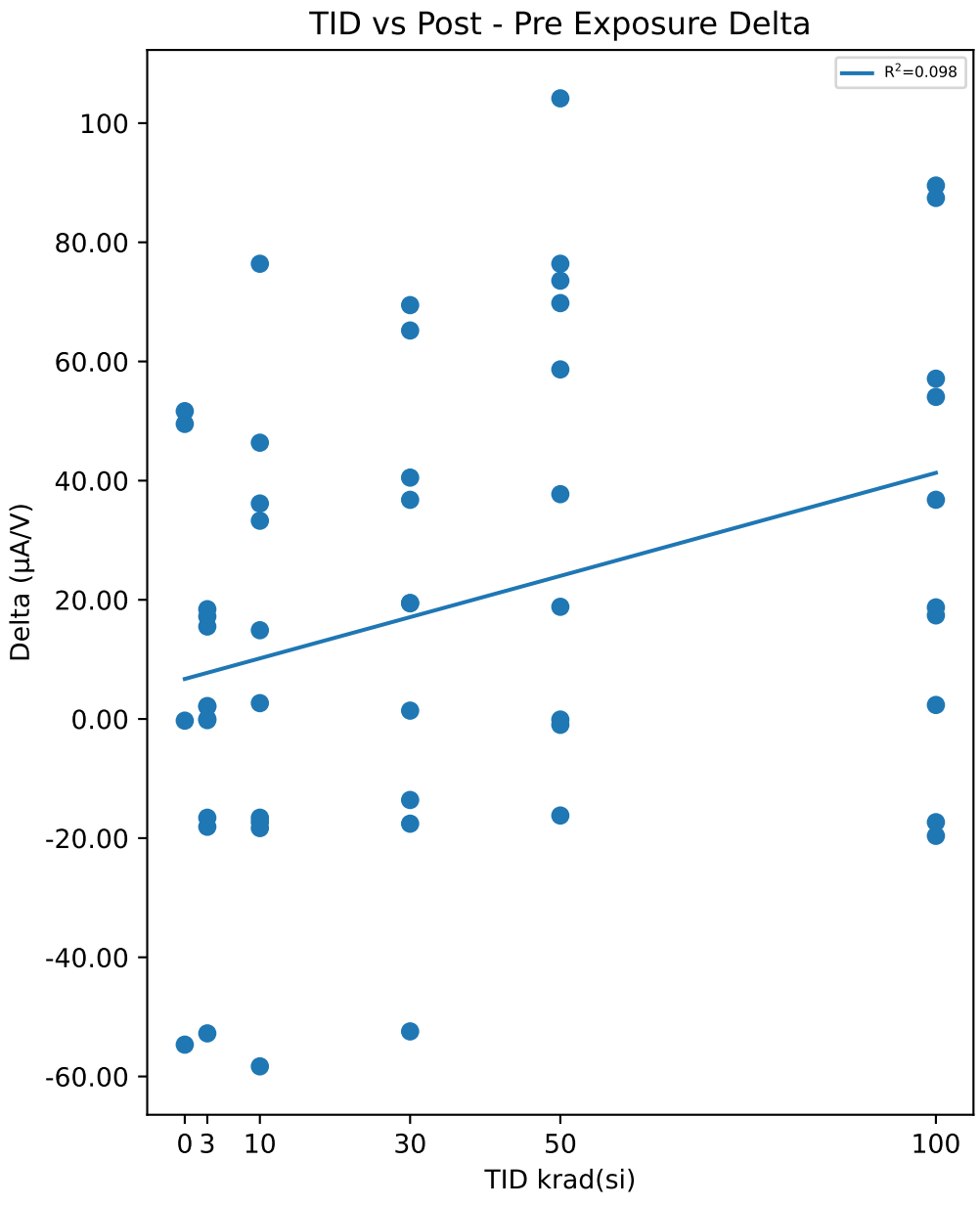
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	-0.4405	-0.2652	0.1753
2	3	HDR BIAS	-0.415	-0.7276	-0.3126
3	3	HDR BIAS	-0.4525	-0.078	0.3745
4	3	HDR BIAS	-0.553	-0.5542	-0.0012
5	3	HDR BIAS	-0.5148	-0.6366	-0.1218
6	3	HDR UNBIAS	-0.543	-0.8681	-0.3251
7	3	HDR UNBIAS	-0.4374	-0.5088	-0.0714
8	3	HDR UNBIAS	-0.4587	-0.5106	-0.0519
9	3	HDR UNBIAS	-0.5336	-0.6272	-0.0936
10	3	HDR UNBIAS	-0.4967	-0.7994	-0.3027
11	10	HDR BIAS	-0.4306	-0.4463	-0.0157
12	10	HDR BIAS	-0.4556	-0.5262	-0.0706
13	10	HDR BIAS	-0.4561	-0.5274	-0.0713
14	10	HDR BIAS	-0.4275	-0.74	-0.3125
15	10	HDR BIAS	-0.5211	-0.4963	0.0248
16	10	HDR UNBIAS	-0.4874	-0.5013	-0.0139
17	10	HDR UNBIAS	-0.3963	-0.2091	0.1872
18	10	HDR UNBIAS	-0.4244	-0.6745	-0.2501
19	10	HDR UNBIAS	-0.5311	-0.0281	0.503
20	10	HDR UNBIAS	-0.4836	-0.4764	0.0072
31	30	HDR BIAS	-0.4811	-0.4776	0.0035
32	30	HDR BIAS	-0.3775	-0.4546	-0.0771
33	30	HDR BIAS	-0.44	-0.234	0.206
34	30	HDR BIAS	-0.5311	-0.7619	-0.2308
35	30	HDR BIAS	-0.4618	-0.1529	0.3089
36	30	HDR UNBIAS	-0.4462	-0.5573	-0.1111
37	30	HDR UNBIAS	-0.6029	-0.4181	0.1848
38	30	HDR UNBIAS	-0.493	-0.6776	-0.1846
39	30	HDR UNBIAS	-0.4962	-0.1904	0.3058
40	30	HDR UNBIAS	-0.3811	-0.4577	-0.0766
41	50	HDR BIAS	-0.39	-0.465	-0.075
42	50	HDR BIAS	-0.4306	-0.8119	-0.3813
43	50	HDR BIAS	-0.5311	-0.2372	0.2939
44	50	HDR BIAS	-0.5398	-0.6601	-0.1203
45	50	HDR BIAS	-0.4431	-0.4556	-0.0125
46	50	HDR UNBIAS	-0.4624	-0.6589	-0.1965
47	50	HDR UNBIAS	-0.3994	-0.284	0.1154
48	50	HDR UNBIAS	-0.5242	-0.5013	0.0229
49	50	HDR UNBIAS	-0.3624	-0.4837	-0.1213
50	50	HDR UNBIAS	-0.2122	-0.6308	-0.4186
51	100	HDR BIAS	-0.4244	-0.437	-0.0126
52	100	HDR BIAS	-0.4655	-0.5542	-0.0887
53	100	HDR BIAS	-0.4212	-0.6054	-0.1842
54	100	HDR BIAS	-0.4712	-0.7713	-0.3001
55	100	HDR BIAS	-0.4405	-0.515	-0.0745
56	100	HDR UNBIAS	-0.4431	-0.4484	-0.0053
57	100	HDR UNBIAS	-0.5055	-0.5773	-0.0718
58	100	HDR UNBIAS	-0.4124	-0.6994	-0.287
59	100	HDR UNBIAS	-0.4275	-0.5587	-0.1312
60	100	HDR UNBIAS	-0.4306	-0.5324	-0.1018
91	0	CORRELATION	-0.4649	-0.3495	0.1154
92	0	CORRELATION	-0.4244	-0.7088	-0.2844
93	0	CORRELATION	-0.3968	-0.3621	0.0347
94	0	CORRELATION	-0.3963	-0.5386	-0.1423

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4649	-0.4206	-0.3963	0.032321	-0.7088	-0.48975	-0.3495	0.16964	-0.2844	-0.06915	0.1154	0.17938
3	-0.553	-0.48452	-0.415	0.04974	-0.8681	-0.55757	-0.078	0.23921	-0.3251	-0.07305	0.3745	0.22212
10	-0.5311	-0.46137	-0.3963	0.043916	-0.74	-0.46256	-0.0281	0.20716	-0.3125	-0.00119	0.503	0.22593
30	-0.6029	-0.47109	-0.3775	0.06726	-0.7619	-0.43821	-0.1529	0.20094	-0.2308	0.03288	0.3089	0.20172
50	-0.5398	-0.42952	-0.2122	0.09827	-0.8119	-0.51885	-0.2372	0.17667	-0.4186	-0.08933	0.2939	0.21464
100	-0.5055	-0.44419	-0.4124	0.02858	-0.7713	-0.56991	-0.437	0.10321	-0.3001	-0.12572	-0.0053	0.10255

Device Test: 19.13 LEVEL|TRANSCONDUCTANCE//14/14/0/0/5/500kHz//@EA_GM





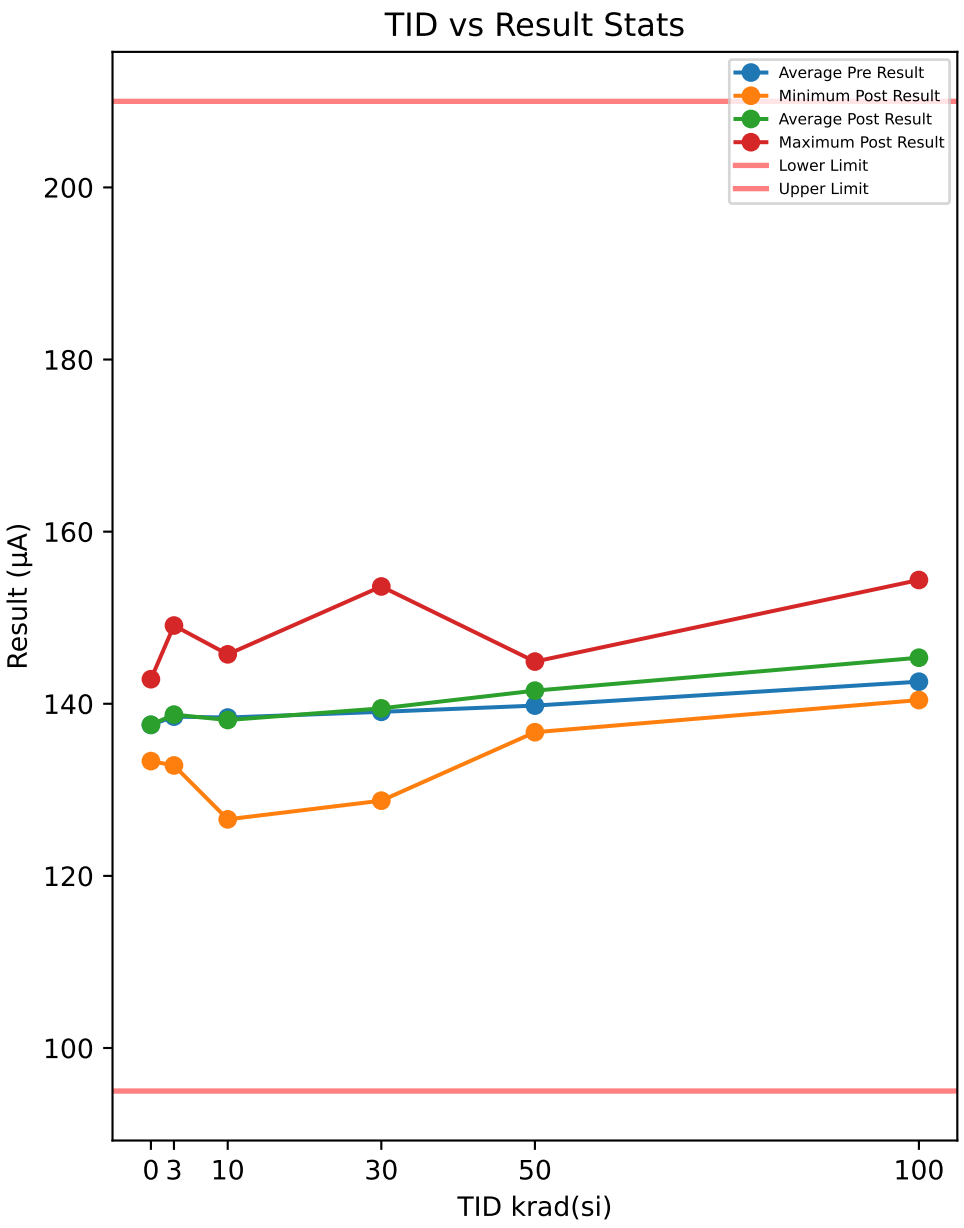
Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

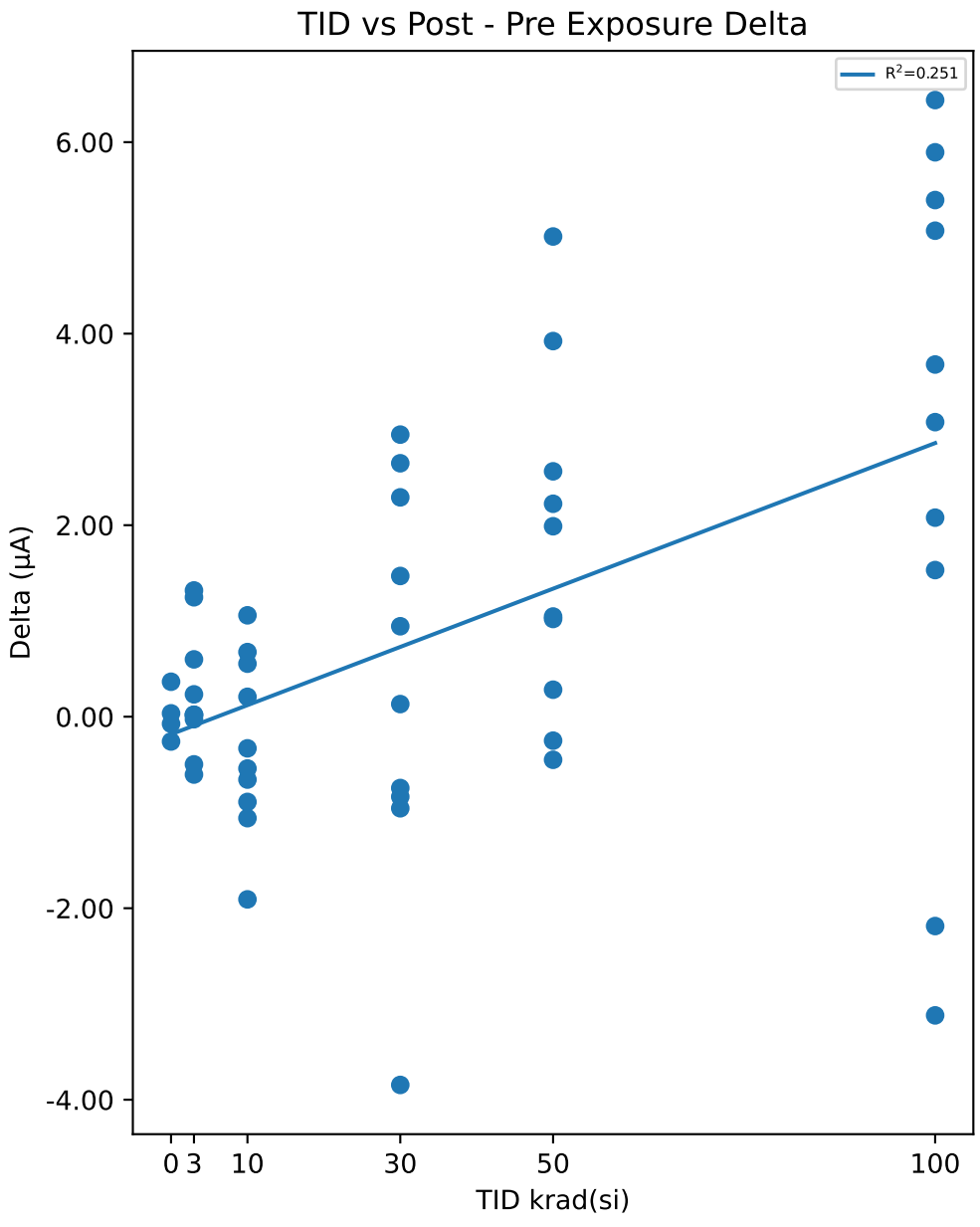
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1701.1	1703.2	2.0896
2	3	HDR BIAS	1703.4	1650.7	-52.768
3	3	HDR BIAS	1633.8	1651	17.196
4	3	HDR BIAS	1701.1	1684.5	-16.576
5	3	HDR BIAS	1721.8	1740.2	18.421
6	3	HDR UNBIAS	1617.3	1617.3	0.0078
7	3	HDR UNBIAS	1838	1819.9	-18.093
8	3	HDR UNBIAS	1617.4	1632.9	15.514
9	3	HDR UNBIAS	1721.7	1721.5	-0.1944
10	3	HDR UNBIAS	1615.2	1617.3	2.1643
11	10	HDR BIAS	1685.5	1668.2	-17.304
12	10	HDR BIAS	1721.7	1798.1	76.399
13	10	HDR BIAS	1738.1	1721.5	-16.568
14	10	HDR BIAS	1685.5	1721.7	36.159
15	10	HDR BIAS	1799	1740.7	-58.304
16	10	HDR UNBIAS	1583.2	1616.5	33.268
17	10	HDR UNBIAS	1554.6	1601	46.366
18	10	HDR UNBIAS	1721.7	1703.4	-18.31
19	10	HDR UNBIAS	1719.4	1722	2.656
20	10	HDR UNBIAS	1585.4	1600.3	14.895
31	30	HDR BIAS	1719.4	1759.9	40.508
32	30	HDR BIAS	1721.8	1758.6	36.78
33	30	HDR BIAS	1585.3	1650.5	65.198
34	30	HDR BIAS	1648.5	1667.9	19.412
35	30	HDR BIAS	1703.5	1651	-52.436
36	30	HDR UNBIAS	1799	1818.5	19.471
37	30	HDR UNBIAS	1583.2	1569.6	-13.597
38	30	HDR UNBIAS	1633.9	1703.4	69.457
39	30	HDR UNBIAS	1703.3	1685.8	-17.577
40	30	HDR UNBIAS	1757.2	1758.6	1.3998
41	50	HDR BIAS	1740.5	1759.3	18.826
42	50	HDR BIAS	1740.4	1799	58.665
43	50	HDR BIAS	1648.5	1722	73.56
44	50	HDR BIAS	1650.8	1649.8	-0.9821
45	50	HDR BIAS	1617.3	1721.5	104.16
46	50	HDR UNBIAS	1665.6	1703.4	37.728
47	50	HDR UNBIAS	1633.9	1703.7	69.795
48	50	HDR UNBIAS	1721.7	1798.1	76.399
49	50	HDR UNBIAS	1719.4	1703.2	-16.207
50	50	HDR UNBIAS	1721.8	1721.7	-0.0971
51	100	HDR BIAS	1799	1779.4	-19.615
52	100	HDR BIAS	1738.1	1720.7	-17.327
53	100	HDR BIAS	1721.8	1778.9	57.113
54	100	HDR BIAS	1721.7	1740.4	18.726
55	100	HDR BIAS	1796.7	1884.1	87.445
56	100	HDR UNBIAS	1721.8	1758.6	36.789
57	100	HDR UNBIAS	1650.7	1740.2	89.527
58	100	HDR UNBIAS	1757.2	1759.5	2.3496
59	100	HDR UNBIAS	1668	1722	54.057
60	100	HDR UNBIAS	1703.4	1720.7	17.383
91	0	CORRELATION	1668	1667.7	-0.2818
92	0	CORRELATION	1601.2	1650.7	49.521
93	0	CORRELATION	1776.7	1722	-54.662
94	0	CORRELATION	1650.8	1702.4	51.659

Test Statistics (µA/V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1601.2	1674.1	1776.7	73.997	1650.7	1685.7	1722	32.405	-54.662	11.559	51.659	50.248
3	1615.2	1687.1	1838	69.562	1617.3	1683.8	1819.9	64.19	-52.768	-3.2238	18.421	21.519
10	1554.6	1679.4	1799	79.352	1600.3	1689.3	1798.1	66.086	-58.304	9.9257	76.399	39.375
30	1583.2	1685.5	1799	71.236	1569.6	1702.4	1818.5	72.674	-52.436	16.862	69.457	38.336
50	1617.3	1686	1740.5	47.242	1649.8	1728.2	1799	45.932	-16.207	42.185	104.16	40.354
100	1650.7	1727.8	1799	48.329	1720.7	1760.5	1884.1	48.803	-19.615	32.645	89.527	39.279

Device Test: 19.14 CURRENT|EA_SOURCE//14/14/0/0/5/500kHz//@EA_I_SOURCE





Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

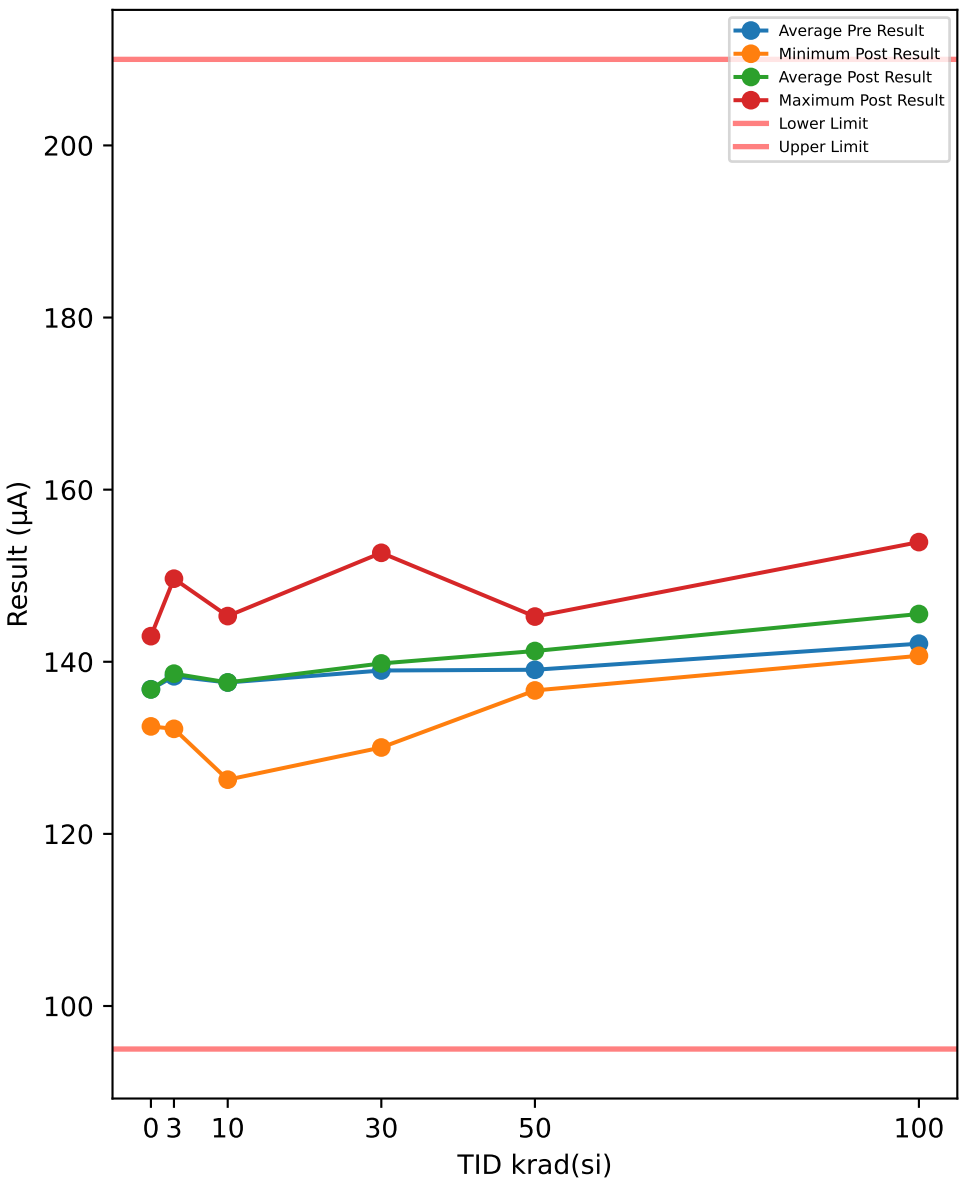
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	138.44	138.67	0.2335
2	3	HDR BIAS	136.17	135.67	-0.4977
3	3	HDR BIAS	137.7	137.72	0.0203
4	3	HDR BIAS	139.13	139.15	0.0167
5	3	HDR BIAS	144.24	145.49	1.2471
6	3	HDR UNBIAS	132.24	132.83	0.5987
7	3	HDR UNBIAS	149.12	149.09	-0.0263
8	3	HDR UNBIAS	133.9	133.3	-0.6041
9	3	HDR UNBIAS	141.09	142.41	1.3185
10	3	HDR UNBIAS	133.03	133.05	0.0203
11	10	HDR BIAS	137.02	135.96	-1.0595
12	10	HDR BIAS	146.4	145.74	-0.6566
13	10	HDR BIAS	141.7	142.38	0.6749
14	10	HDR BIAS	140.57	140.77	0.2078
15	10	HDR BIAS	146.31	144.4	-1.9076
16	10	HDR UNBIAS	132.53	132.2	-0.3305
17	10	HDR UNBIAS	126.02	126.57	0.5537
18	10	HDR UNBIAS	139.49	138.6	-0.89
19	10	HDR UNBIAS	142.77	143.83	1.0588
20	10	HDR UNBIAS	131.2	130.66	-0.541
31	30	HDR BIAS	144	146.29	2.2907
32	30	HDR BIAS	138.59	141.53	2.9459
33	30	HDR BIAS	131.45	132.92	1.4696
34	30	HDR BIAS	136.4	137.34	0.9445
35	30	HDR BIAS	138.46	137.63	-0.8356
36	30	HDR UNBIAS	153.5	153.63	0.1318
37	30	HDR UNBIAS	129.48	128.74	-0.7448
38	30	HDR UNBIAS	133.72	136.36	2.6467
39	30	HDR UNBIAS	140.72	136.87	-3.8454
40	30	HDR UNBIAS	144.31	143.36	-0.9563
41	50	HDR BIAS	145.19	144.74	-0.45
42	50	HDR BIAS	142.91	144.9	1.9889
43	50	HDR BIAS	138.12	139.17	1.0462
44	50	HDR BIAS	134.47	136.69	2.2237
45	50	HDR BIAS	134.12	138.04	3.9227
46	50	HDR UNBIAS	139.88	142.44	2.5624
47	50	HDR UNBIAS	134.88	139.89	5.0148
48	50	HDR UNBIAS	141.85	141.6	-0.2501
49	50	HDR UNBIAS	141.83	142.85	1.0206
50	50	HDR UNBIAS	144.62	144.9	0.282
51	100	HDR BIAS	148.16	149.69	1.5313
52	100	HDR BIAS	138.88	143.95	5.0754
53	100	HDR BIAS	142.89	148.29	5.3954
54	100	HDR BIAS	141.5	143.58	2.0787
55	100	HDR BIAS	148.49	154.38	5.894
56	100	HDR UNBIAS	145	141.88	-3.1191
57	100	HDR UNBIAS	137.35	140.43	3.0762
58	100	HDR UNBIAS	142.93	140.74	-2.1863
59	100	HDR UNBIAS	137.9	144.34	6.4395
60	100	HDR UNBIAS	142.57	146.25	3.6779
91	0	CORRELATION	135.85	135.78	-0.0738
92	0	CORRELATION	133.3	133.34	0.035
93	0	CORRELATION	142.49	142.85	0.3651
94	0	CORRELATION	138.52	138.27	-0.259

Test Statistics (µA)

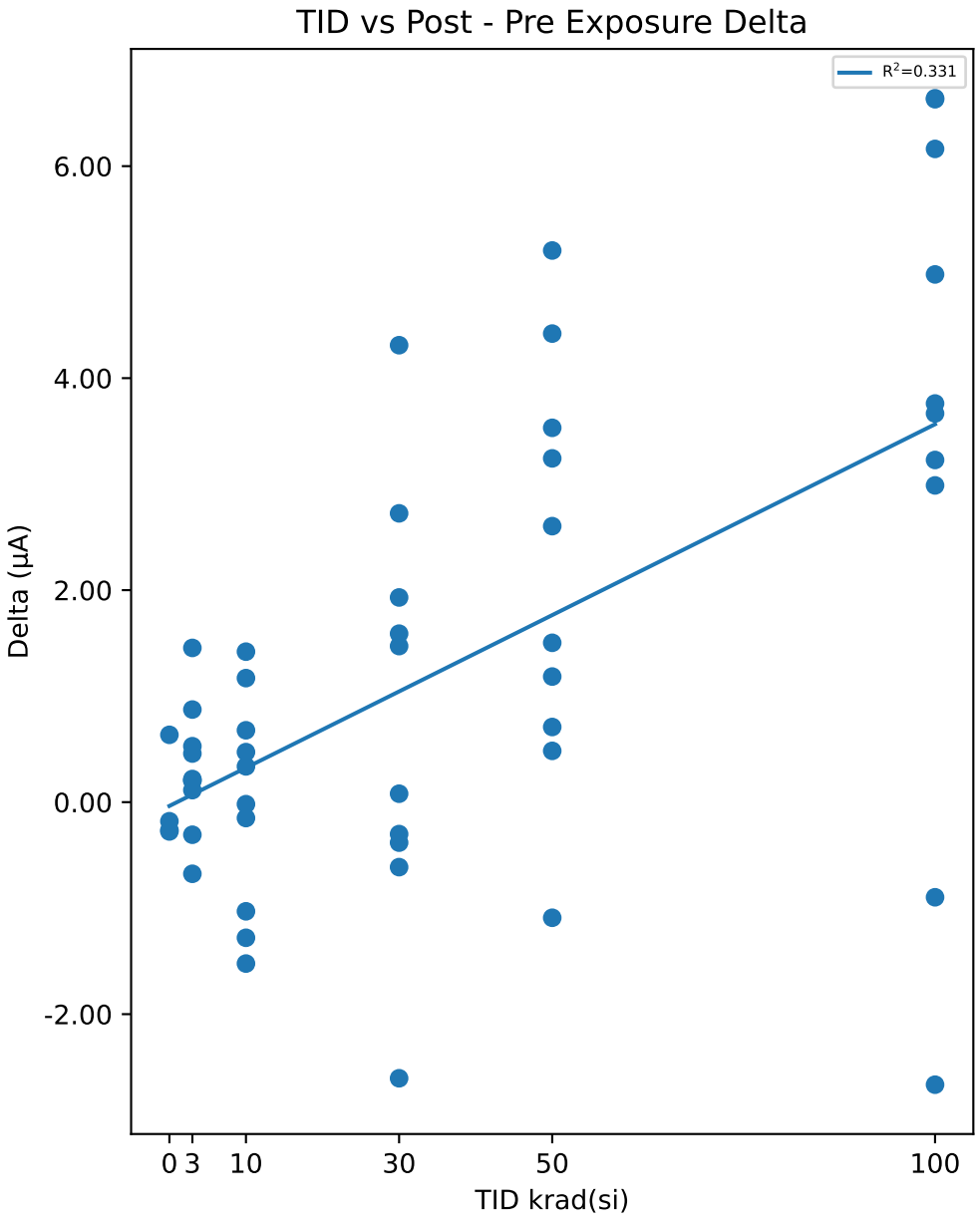
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	133.3	137.54	142.49	3.9271	133.34	137.56	142.85	4.0632	-0.259	0.016825	0.3651	0.26199
3	132.24	138.51	149.12	5.2617	132.83	138.74	149.09	5.514	-0.6041	0.2327	1.3185	0.64804
10	126.02	138.4	146.4	6.6992	126.57	138.11	145.74	6.5345	-1.9076	-0.289	1.0588	0.91151
30	129.48	139.06	153.5	7.0633	128.74	139.47	153.63	7.0613	-3.8454	0.40471	2.9459	2.0901
50	134.12	139.79	145.19	4.1894	136.69	141.52	144.9	2.9705	-0.45	1.7361	5.0148	1.7746
100	137.35	142.57	148.49	3.8907	140.43	145.35	154.38	4.3903	-3.1191	2.7863	6.4395	3.2932

Device Test: 19.15 CURRENT|EA_SINK//14/14/0/0/5/500kHz//@EA_I_SINK

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

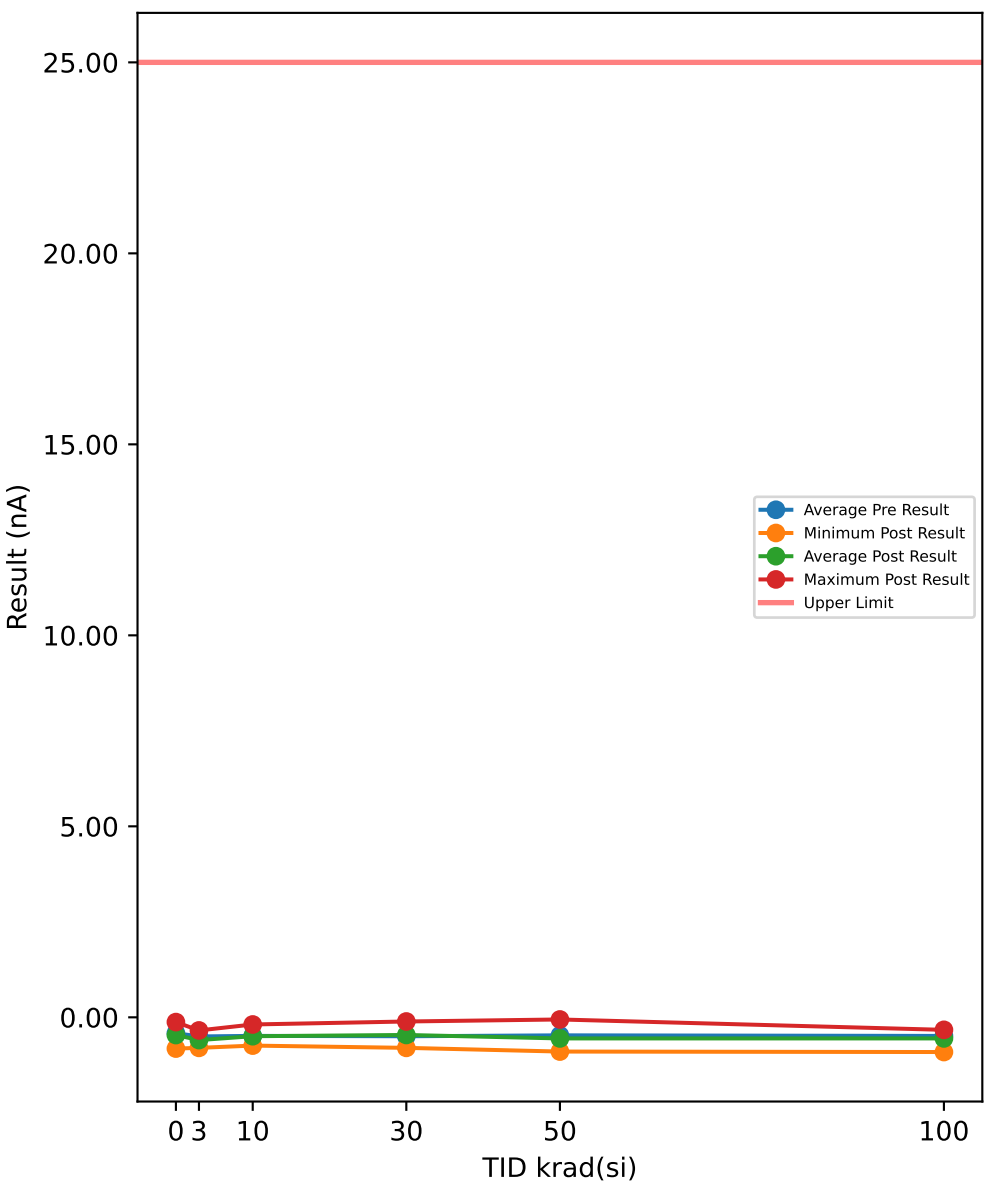
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	138.48	138.68	0.2052
2	3	HDR BIAS	135.59	134.92	-0.6759
3	3	HDR BIAS	137.31	137.53	0.2183
4	3	HDR BIAS	137.91	138.11	0.2024
5	3	HDR BIAS	143.39	144.84	1.4551
6	3	HDR UNBIAS	131.75	132.21	0.4586
7	3	HDR UNBIAS	149.13	149.65	0.5279
8	3	HDR UNBIAS	134.15	133.84	-0.3074
9	3	HDR UNBIAS	141.48	142.36	0.8736
10	3	HDR UNBIAS	133.92	134.03	0.1135
11	10	HDR BIAS	135.78	134.5	-1.2795
12	10	HDR BIAS	144.97	145.31	0.3374
13	10	HDR BIAS	141.59	142.26	0.678
14	10	HDR BIAS	140.59	141.06	0.4722
15	10	HDR BIAS	145.13	143.61	-1.5227
16	10	HDR UNBIAS	131.35	131.33	-0.019
17	10	HDR UNBIAS	125.13	126.3	1.1702
18	10	HDR UNBIAS	139.07	138.04	-1.0298
19	10	HDR UNBIAS	141.24	142.66	1.4197
20	10	HDR UNBIAS	131.07	130.92	-0.15
31	30	HDR BIAS	143.91	145.84	1.9311
32	30	HDR BIAS	138.55	142.86	4.3108
33	30	HDR BIAS	130.68	132.27	1.5895
34	30	HDR BIAS	135.18	136.65	1.4724
35	30	HDR BIAS	137.7	137.78	0.0796
36	30	HDR UNBIAS	153.04	152.66	-0.3819
37	30	HDR UNBIAS	130.34	130.04	-0.3013
38	30	HDR UNBIAS	134.59	137.31	2.7245
39	30	HDR UNBIAS	141.33	138.72	-2.6049
40	30	HDR UNBIAS	144.54	143.93	-0.613
41	50	HDR BIAS	143.01	141.92	-1.0907
42	50	HDR BIAS	142.05	144.65	2.6038
43	50	HDR BIAS	137.22	138.72	1.5033
44	50	HDR BIAS	133.42	136.67	3.2431
45	50	HDR BIAS	134.26	138.68	4.4204
46	50	HDR UNBIAS	138.66	142.2	3.5314
47	50	HDR UNBIAS	133.58	138.79	5.2042
48	50	HDR UNBIAS	142.9	144.08	1.1849
49	50	HDR UNBIAS	140.83	141.54	0.7091
50	50	HDR UNBIAS	144.77	145.25	0.4838
51	100	HDR BIAS	147.33	150.31	2.9881
52	100	HDR BIAS	138.48	143.45	4.9784
53	100	HDR BIAS	142.29	148.93	6.6406
54	100	HDR BIAS	139.51	143.17	3.6668
55	100	HDR BIAS	147.74	153.91	6.1626
56	100	HDR UNBIAS	145.65	142.98	-2.6654
57	100	HDR UNBIAS	137.46	140.69	3.2281
58	100	HDR UNBIAS	143.28	142.39	-0.8974
59	100	HDR UNBIAS	137.57	144.2	6.6312
60	100	HDR UNBIAS	141.7	145.47	3.7609
91	0	CORRELATION	134.78	134.6	-0.1801
92	0	CORRELATION	132.75	132.49	-0.2628
93	0	CORRELATION	142.34	142.98	0.6352
94	0	CORRELATION	137.35	137.08	-0.2764

Test Statistics (µA)

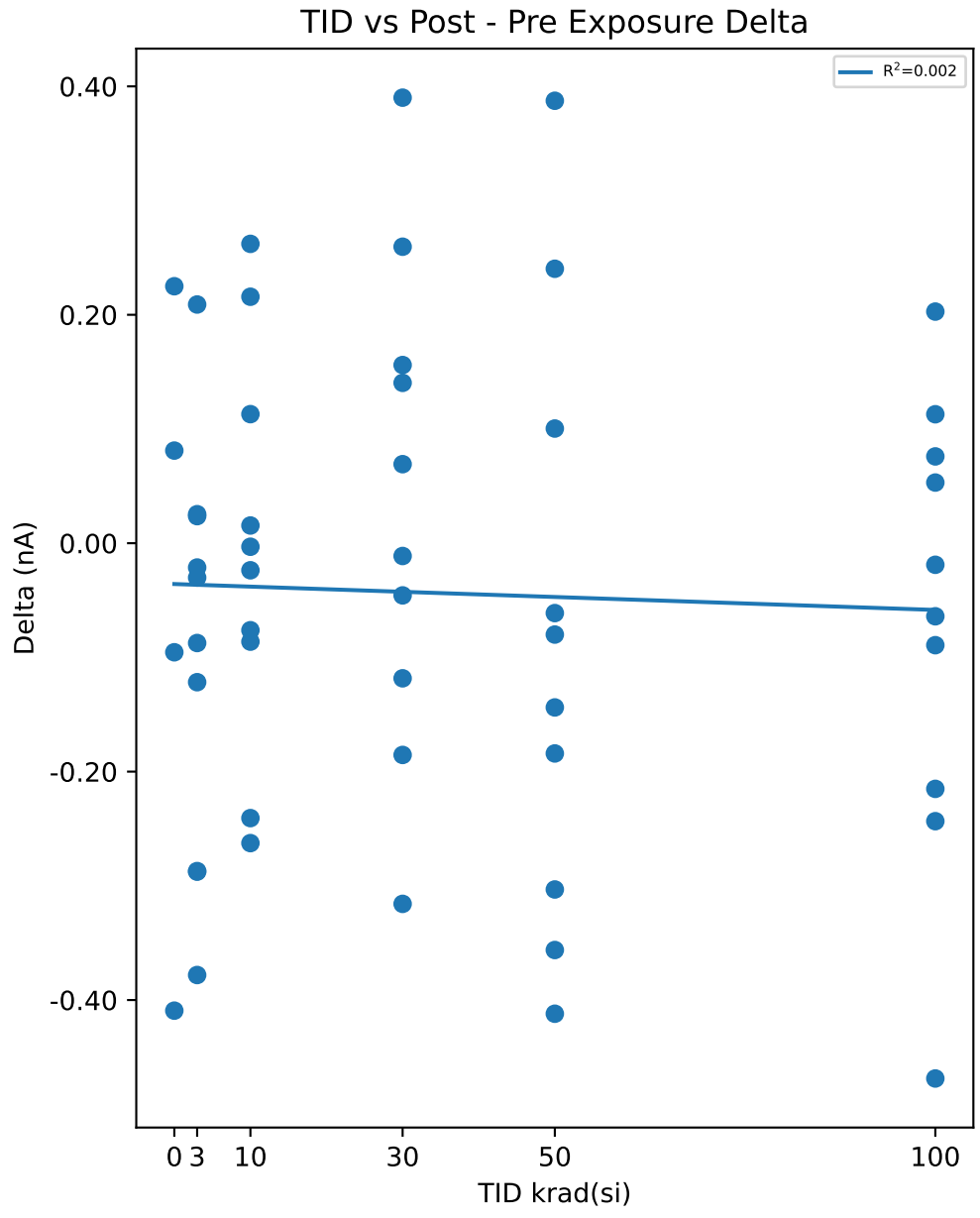
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	132.75	136.81	142.34	4.1421	132.49	136.78	142.98	4.5328	-0.2764	-0.021025	0.6352	0.43955
3	131.75	138.31	149.13	5.1751	132.21	138.62	149.65	5.5235	-0.6759	0.30713	1.4551	0.58889
10	125.13	137.59	145.13	6.5986	126.3	137.6	145.31	6.4666	-1.5227	0.00765	1.4197	1.0121
30	130.34	138.99	153.04	6.973	130.04	139.81	152.66	6.6802	-2.6049	0.82068	4.3108	1.9748
50	133.42	139.07	144.77	4.2602	136.67	141.25	145.25	2.9271	-1.0907	2.1793	5.2042	1.9575
100	137.46	142.1	147.74	3.8757	140.69	145.55	153.91	4.1631	-2.6654	3.4494	6.6406	3.1037

Device Test: 19.16 CURRENT|EA//14/14/0/0/5/500kHz//@EA_IB

TID vs Result Stats



TID vs Post - Pre Exposure Delta



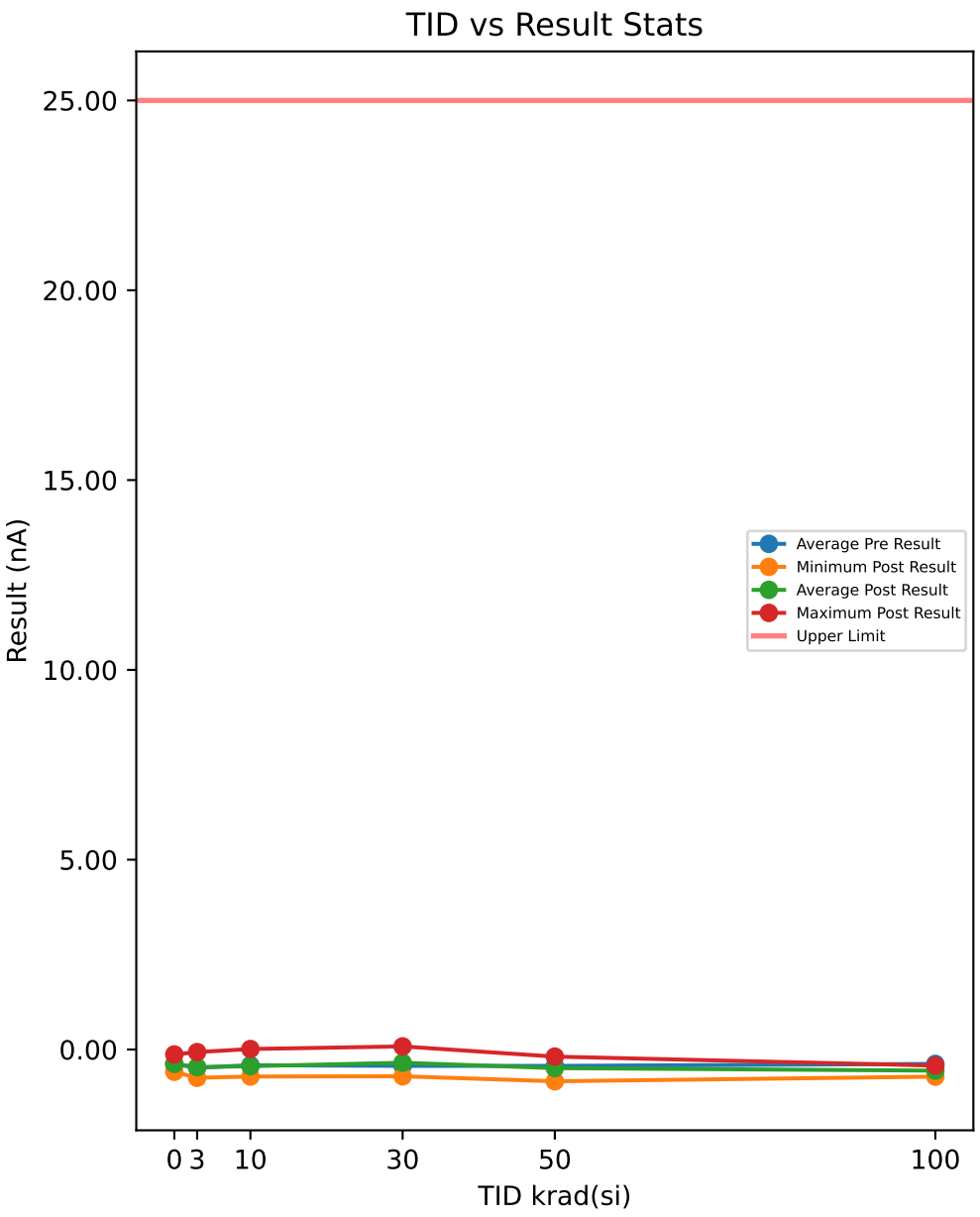
Test Results (Upper Limit = 25.0 (nA))

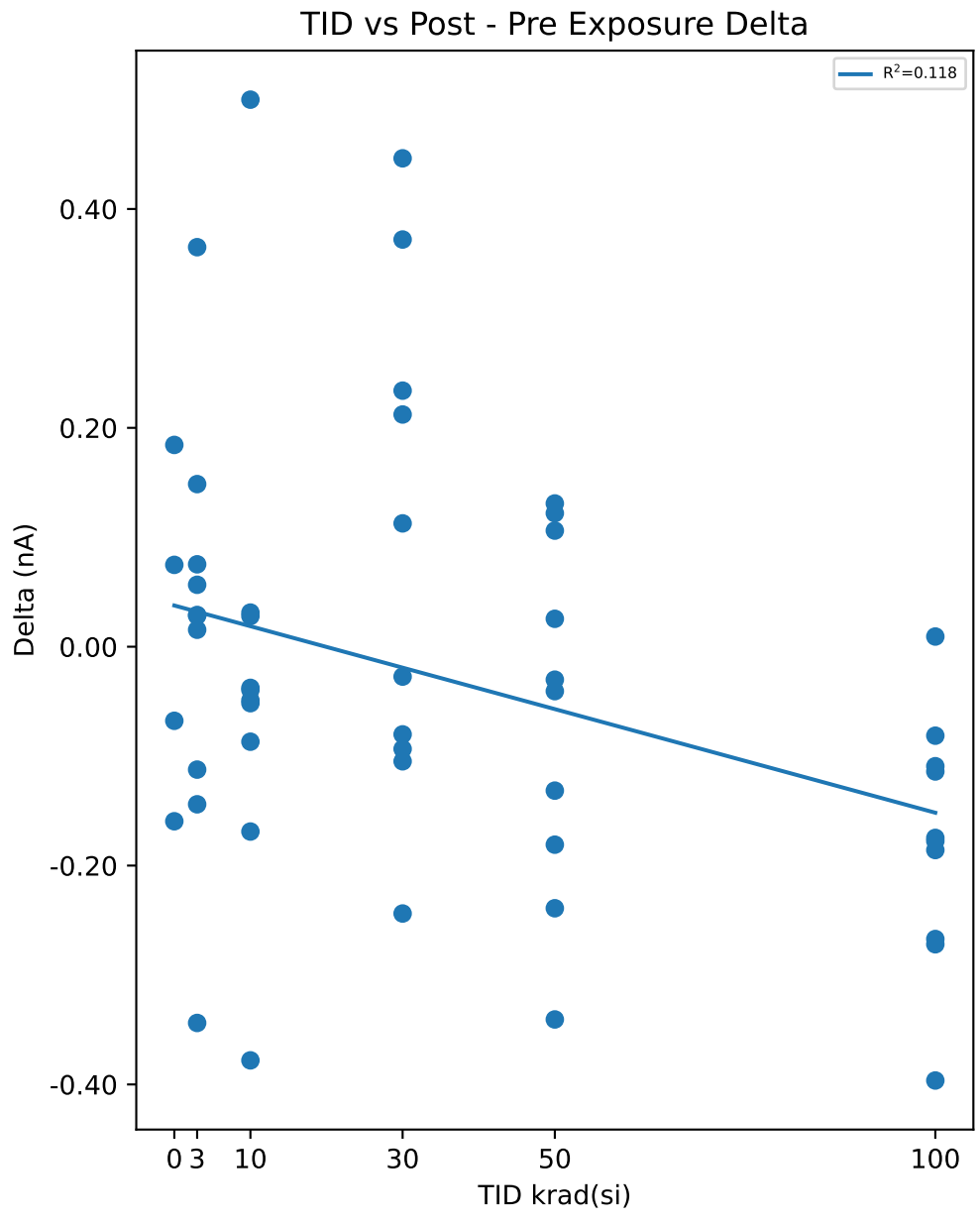
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	-0.4905	-0.5118	-0.0213
2	3	HDR BIAS	-0.4181	-0.7962	-0.3781
3	3	HDR BIAS	-0.5523	-0.3433	0.209
4	3	HDR BIAS	-0.5561	-0.5324	0.0237
5	3	HDR BIAS	-0.5055	-0.5929	-0.0874
6	3	HDR UNBIAS	-0.5118	-0.7994	-0.2876
7	3	HDR UNBIAS	-0.5342	-0.5088	0.0254
8	3	HDR UNBIAS	-0.4868	-0.5169	-0.0301
9	3	HDR UNBIAS	-0.4899	-0.6116	-0.1217
10	3	HDR UNBIAS	-0.4592	-0.7463	-0.2871
11	10	HDR BIAS	-0.4743	-0.4588	0.0155
12	10	HDR BIAS	-0.5305	-0.5542	-0.0237
13	10	HDR BIAS	-0.528	-0.415	0.113
14	10	HDR BIAS	-0.4774	-0.74	-0.2626
15	10	HDR BIAS	-0.4494	-0.1873	0.2621
16	10	HDR UNBIAS	-0.4811	-0.5573	-0.0762
17	10	HDR UNBIAS	-0.4431	-0.4462	-0.0031
18	10	HDR UNBIAS	-0.4962	-0.7369	-0.2407
19	10	HDR UNBIAS	-0.5311	-0.3153	0.2158
20	10	HDR UNBIAS	-0.4462	-0.5324	-0.0862
31	30	HDR BIAS	-0.5155	-0.4463	0.0692
32	30	HDR BIAS	-0.4462	-0.4919	-0.0457
33	30	HDR BIAS	-0.5336	-0.3932	0.1404
34	30	HDR BIAS	-0.6061	-0.7244	-0.1183
35	30	HDR BIAS	-0.4556	-0.2996	0.156
36	30	HDR UNBIAS	-0.5274	-0.5386	-0.0112
37	30	HDR UNBIAS	-0.4936	-0.234	0.2596
38	30	HDR UNBIAS	-0.4836	-0.7994	-0.3158
39	30	HDR UNBIAS	-0.4993	-0.1092	0.3901
40	30	HDR UNBIAS	-0.3968	-0.5822	-0.1854
41	50	HDR BIAS	-0.4899	-0.2496	0.2403
42	50	HDR BIAS	-0.4525	-0.8087	-0.3562
43	50	HDR BIAS	-0.4436	-0.0562	0.3874
44	50	HDR BIAS	-0.468	-0.548	-0.08
45	50	HDR BIAS	-0.518	-0.7021	-0.1841
46	50	HDR UNBIAS	-0.4842	-0.8962	-0.412
47	50	HDR UNBIAS	-0.4836	-0.6274	-0.1438
48	50	HDR UNBIAS	-0.4806	-0.5418	-0.0612
49	50	HDR UNBIAS	-0.478	-0.3776	0.1004
50	50	HDR UNBIAS	-0.415	-0.7182	-0.3032
51	100	HDR BIAS	-0.5305	-0.3277	0.2028
52	100	HDR BIAS	-0.3999	-0.4639	-0.064
53	100	HDR BIAS	-0.3651	-0.6085	-0.2434
54	100	HDR BIAS	-0.44	-0.9087	-0.4687
55	100	HDR BIAS	-0.5405	-0.4276	0.1129
56	100	HDR UNBIAS	-0.5835	-0.5075	0.076
57	100	HDR UNBIAS	-0.5867	-0.5336	0.0531
58	100	HDR UNBIAS	-0.578	-0.7931	-0.2151
59	100	HDR UNBIAS	-0.39	-0.4089	-0.0189
60	100	HDR UNBIAS	-0.4556	-0.5449	-0.0893
91	0	CORRELATION	-0.4337	-0.3526	0.0811
92	0	CORRELATION	-0.4088	-0.8181	-0.4093
93	0	CORRELATION	-0.3499	-0.1249	0.225
94	0	CORRELATION	-0.4649	-0.5604	-0.0955

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4649	-0.41432	-0.3499	0.048697	-0.8181	-0.464	-0.1249	0.29557	-0.4093	-0.049675	0.225	0.27324
3	-0.5561	-0.50044	-0.4181	0.042109	-0.7994	-0.59596	-0.3433	0.1465	-0.3781	-0.09552	0.209	0.17812
10	-0.5311	-0.48573	-0.4431	0.03477	-0.74	-0.49434	-0.1873	0.17139	-0.2626	-0.00861	0.2621	0.17264
30	-0.6061	-0.49577	-0.3968	0.056789	-0.7994	-0.46188	-0.1092	0.21388	-0.3158	0.03389	0.3901	0.21272
50	-0.518	-0.47134	-0.415	0.028436	-0.8962	-0.55258	-0.0562	0.25991	-0.412	-0.08124	0.3874	0.25931
100	-0.5867	-0.48698	-0.3651	0.086498	-0.9087	-0.55244	-0.3277	0.17794	-0.4687	-0.06546	0.2028	0.19923

Device Test: 19.17 CURRENT|EA//12/12/0/0/5/100kHz//@EA_IB





Test Results (Upper Limit = 25.0 (nA))

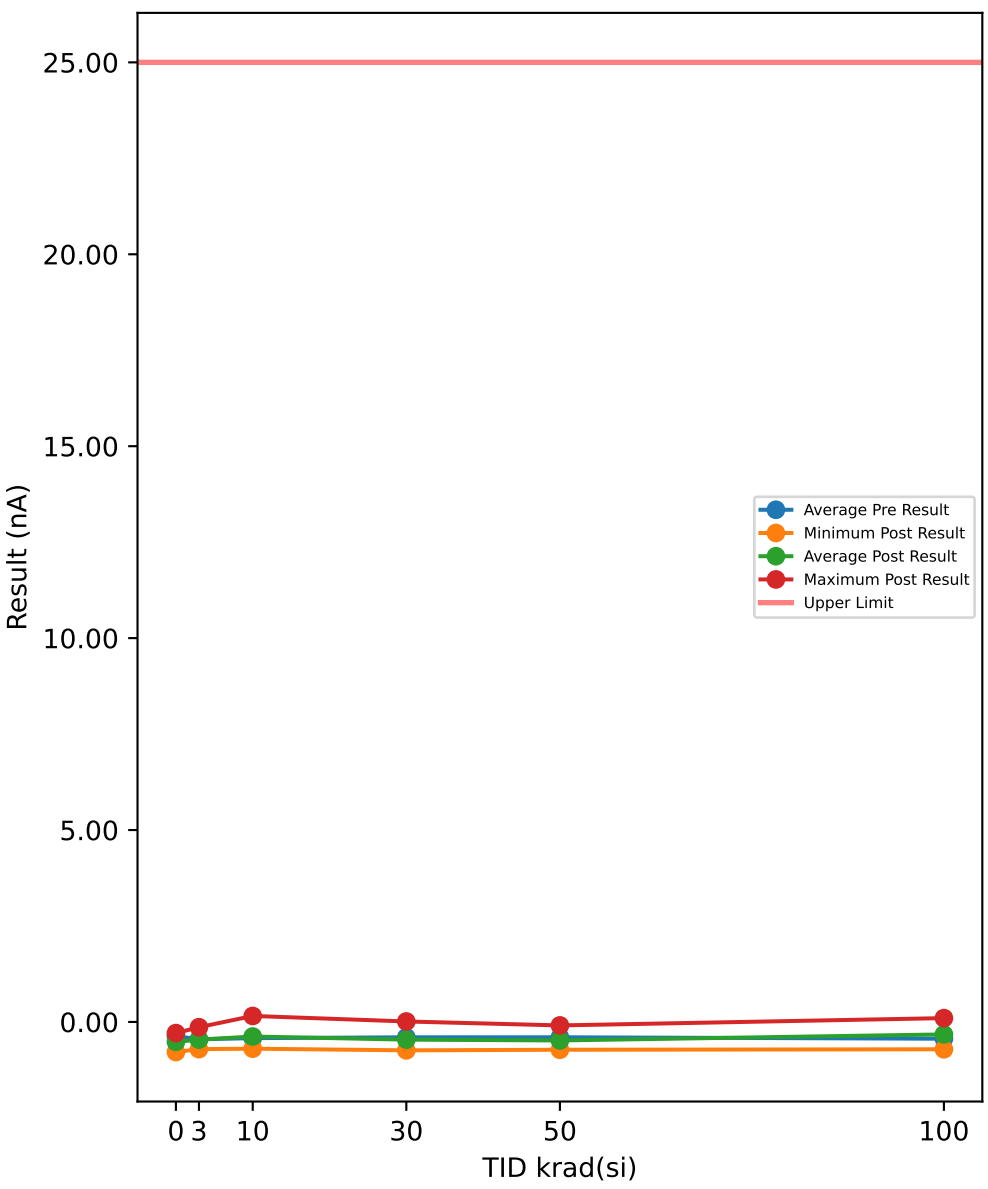
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	-0.3749	-0.3183	0.0566
2	3	HDR BIAS	-0.4025	-0.7463	-0.3438
3	3	HDR BIAS	-0.4338	-0.0687	0.3651
4	3	HDR BIAS	-0.6748	-0.5262	0.1486
5	3	HDR BIAS	-0.4961	-0.4806	0.0155
6	3	HDR UNBIAS	-0.4618	-0.6058	-0.144
7	3	HDR UNBIAS	-0.3499	-0.3215	0.0284
8	3	HDR UNBIAS	-0.4524	-0.4234	0.029
9	3	HDR UNBIAS	-0.4431	-0.5554	-0.1123
10	3	HDR UNBIAS	-0.7029	-0.6276	0.0753
11	10	HDR BIAS	-0.3588	-0.3964	-0.0376
12	10	HDR BIAS	-0.4556	-0.4951	-0.0395
13	10	HDR BIAS	-0.4374	-0.5242	-0.0868
14	10	HDR BIAS	-0.3339	-0.7119	-0.378
15	10	HDR BIAS	-0.4338	-0.4058	0.028
16	10	HDR UNBIAS	-0.4217	-0.4733	-0.0516
17	10	HDR UNBIAS	-0.3869	-0.3557	0.0312
18	10	HDR UNBIAS	-0.4119	-0.5808	-0.1689
19	10	HDR UNBIAS	-0.4874	0.0125	0.4999
20	10	HDR UNBIAS	-0.4119	-0.4608	-0.0489
31	30	HDR BIAS	-0.3249	-0.2122	0.1127
32	30	HDR BIAS	-0.3775	-0.4048	-0.0273
33	30	HDR BIAS	-0.4057	-0.1935	0.2122
34	30	HDR BIAS	-0.6123	-0.7057	-0.0934
35	30	HDR BIAS	-0.3651	0.0812	0.4463
36	30	HDR UNBIAS	-0.415	-0.4951	-0.0801
37	30	HDR UNBIAS	-0.7185	-0.3464	0.3721
38	30	HDR UNBIAS	-0.3838	-0.6276	-0.2438
39	30	HDR UNBIAS	-0.3745	-0.1405	0.234
40	30	HDR UNBIAS	-0.3405	-0.4452	-0.1047
41	50	HDR BIAS	-0.3463	-0.3869	-0.0406
42	50	HDR BIAS	-0.4962	-0.8368	-0.3406
43	50	HDR BIAS	-0.3093	-0.1873	0.122
44	50	HDR BIAS	-0.3713	-0.6103	-0.239
45	50	HDR BIAS	-0.4899	-0.3838	0.1061
46	50	HDR UNBIAS	-0.4717	-0.6526	-0.1809
47	50	HDR UNBIAS	-0.4337	-0.3028	0.1309
48	50	HDR UNBIAS	-0.4369	-0.467	-0.0301
49	50	HDR UNBIAS	-0.4811	-0.4556	0.0255
50	50	HDR UNBIAS	-0.4868	-0.6183	-0.1315
51	100	HDR BIAS	-0.4338	-0.4245	0.0093
52	100	HDR BIAS	-0.3811	-0.4951	-0.114
53	100	HDR BIAS	-0.3807	-0.5554	-0.1747
54	100	HDR BIAS	-0.4057	-0.6776	-0.2719
55	100	HDR BIAS	-0.3218	-0.4994	-0.1776
56	100	HDR UNBIAS	-0.3245	-0.5916	-0.2671
57	100	HDR UNBIAS	-0.3932	-0.5024	-0.1092
58	100	HDR UNBIAS	-0.3187	-0.7151	-0.3964
59	100	HDR UNBIAS	-0.4181	-0.4994	-0.0813
60	100	HDR UNBIAS	-0.4213	-0.6071	-0.1858
91	0	CORRELATION	-0.3931	-0.3183	0.0748
92	0	CORRELATION	-0.4275	-0.587	-0.1595
93	0	CORRELATION	-0.3155	-0.1311	0.1844
94	0	CORRELATION	-0.4056	-0.4733	-0.0677

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4275	-0.38543	-0.3155	0.048737	-0.587	-0.37743	-0.1311	0.19772	-0.1595	0.008	0.1844	0.15206
3	-0.7029	-0.47922	-0.3499	0.11853	-0.7463	-0.46738	-0.0687	0.19391	-0.3438	0.01184	0.3651	0.18746
10	-0.4874	-0.41393	-0.3339	0.045121	-0.7119	-0.43915	0.0125	0.18866	-0.378	-0.02522	0.4999	0.21916
30	-0.7185	-0.43178	-0.3249	0.12845	-0.7057	-0.34898	0.0812	0.23805	-0.2438	0.0828	0.4463	0.228
50	-0.4962	-0.43232	-0.3093	0.067143	-0.8368	-0.49014	-0.1873	0.19088	-0.3406	-0.05782	0.1309	0.162
100	-0.4338	-0.37989	-0.3187	0.043606	-0.7151	-0.55676	-0.4245	0.090832	-0.3964	-0.17687	0.0093	0.11439

Device Test: 19.18 CURRENT|EA//14/14/0/0/5/100kHz//@EA_IB

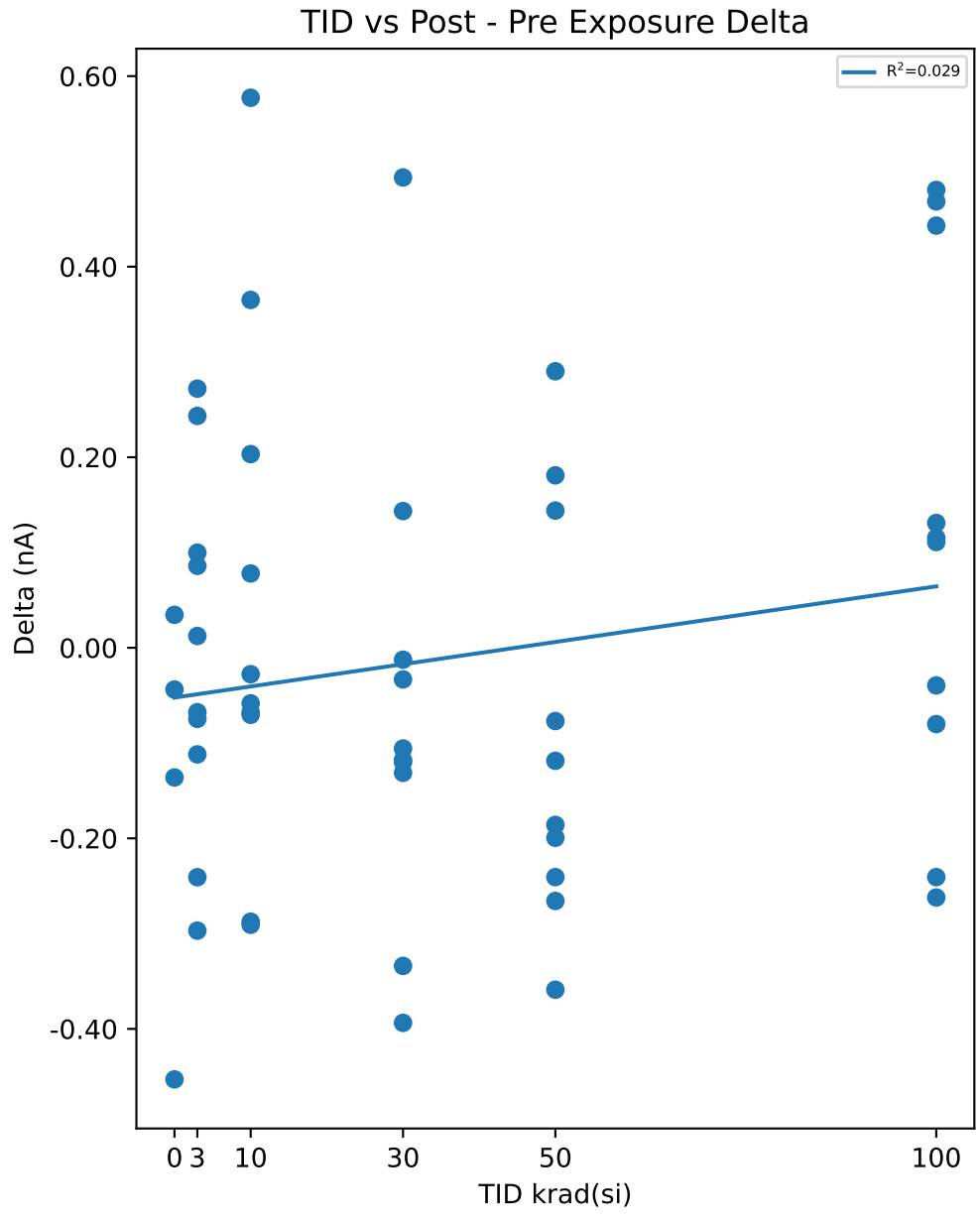
TID vs Result Stats



Test Results (Upper Limit = 25.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	-0.4217	-0.5336	-0.1119
2	3	HDR BIAS	-0.4368	-0.6776	-0.2408
3	3	HDR BIAS	-0.4712	-0.4588	0.0124
4	3	HDR BIAS	-0.5904	-0.5044	0.086
5	3	HDR BIAS	-0.3276	-0.2278	0.0998
6	3	HDR UNBIAS	-0.4119	-0.7088	-0.2969
7	3	HDR UNBIAS	-0.4093	-0.1373	0.272
8	3	HDR UNBIAS	-0.4368	-0.5044	-0.0676
9	3	HDR UNBIAS	-0.4119	-0.1685	0.2434
10	3	HDR UNBIAS	-0.6061	-0.6807	-0.0746
11	10	HDR BIAS	-0.4212	0.1561	0.5773
12	10	HDR BIAS	-0.4025	-0.4608	-0.0583
13	10	HDR BIAS	-0.3468	-0.3745	-0.0277
14	10	HDR BIAS	-0.4025	-0.6932	-0.2907
15	10	HDR BIAS	-0.4587	-0.0936	0.3651
16	10	HDR UNBIAS	-0.4061	-0.4764	-0.0703
17	10	HDR UNBIAS	-0.4899	-0.4119	0.078
18	10	HDR UNBIAS	-0.4088	-0.6963	-0.2875
19	10	HDR UNBIAS	-0.4686	-0.2653	0.2033
20	10	HDR UNBIAS	-0.4119	-0.4795	-0.0676
31	30	HDR BIAS	-0.4811	0.0125	0.4936
32	30	HDR BIAS	-0.3775	-0.4951	-0.1176
33	30	HDR BIAS	-0.4993	-0.5118	-0.0125
34	30	HDR BIAS	-0.3468	-0.6807	-0.3339
35	30	HDR BIAS	-0.2683	-0.3995	-0.1312
36	30	HDR UNBIAS	-0.4525	-0.4857	-0.0332
37	30	HDR UNBIAS	-0.3124	-0.4181	-0.1057
38	30	HDR UNBIAS	-0.3463	-0.74	-0.3937
39	30	HDR UNBIAS	-0.4806	-0.3371	0.1435
40	30	HDR UNBIAS	-0.4311	-0.5511	-0.12
41	50	HDR BIAS	-0.3682	-0.4868	-0.1186
42	50	HDR BIAS	-0.4556	-0.7213	-0.2657
43	50	HDR BIAS	-0.3312	-0.5306	-0.1994
44	50	HDR BIAS	-0.4244	-0.6103	-0.1859
45	50	HDR BIAS	-0.4712	-0.2902	0.181
46	50	HDR UNBIAS	-0.3655	-0.7244	-0.3589
47	50	HDR UNBIAS	-0.3807	-0.0905	0.2902
48	50	HDR UNBIAS	-0.4213	-0.4982	-0.0769
49	50	HDR UNBIAS	-0.3874	-0.2434	0.144
50	50	HDR UNBIAS	-0.3869	-0.6276	-0.2407
51	100	HDR BIAS	-0.4712	0.0094	0.4806
52	100	HDR BIAS	-0.6061	-0.4951	0.111
53	100	HDR BIAS	-0.4056	-0.2746	0.131
54	100	HDR BIAS	-0.4712	-0.7119	-0.2407
55	100	HDR BIAS	-0.3686	0.0999	0.4685
56	100	HDR UNBIAS	-0.3963	-0.4764	-0.0801
57	100	HDR UNBIAS	-0.3807	-0.2652	0.1155
58	100	HDR UNBIAS	-0.4155	-0.6776	-0.2621
59	100	HDR UNBIAS	-0.4119	0.0312	0.4431
60	100	HDR UNBIAS	-0.4462	-0.4857	-0.0395
91	0	CORRELATION	-0.4212	-0.465	-0.0438
92	0	CORRELATION	-0.3308	-0.7838	-0.453
93	0	CORRELATION	-0.3249	-0.2903	0.0346
94	0	CORRELATION	-0.3994	-0.5355	-0.1361

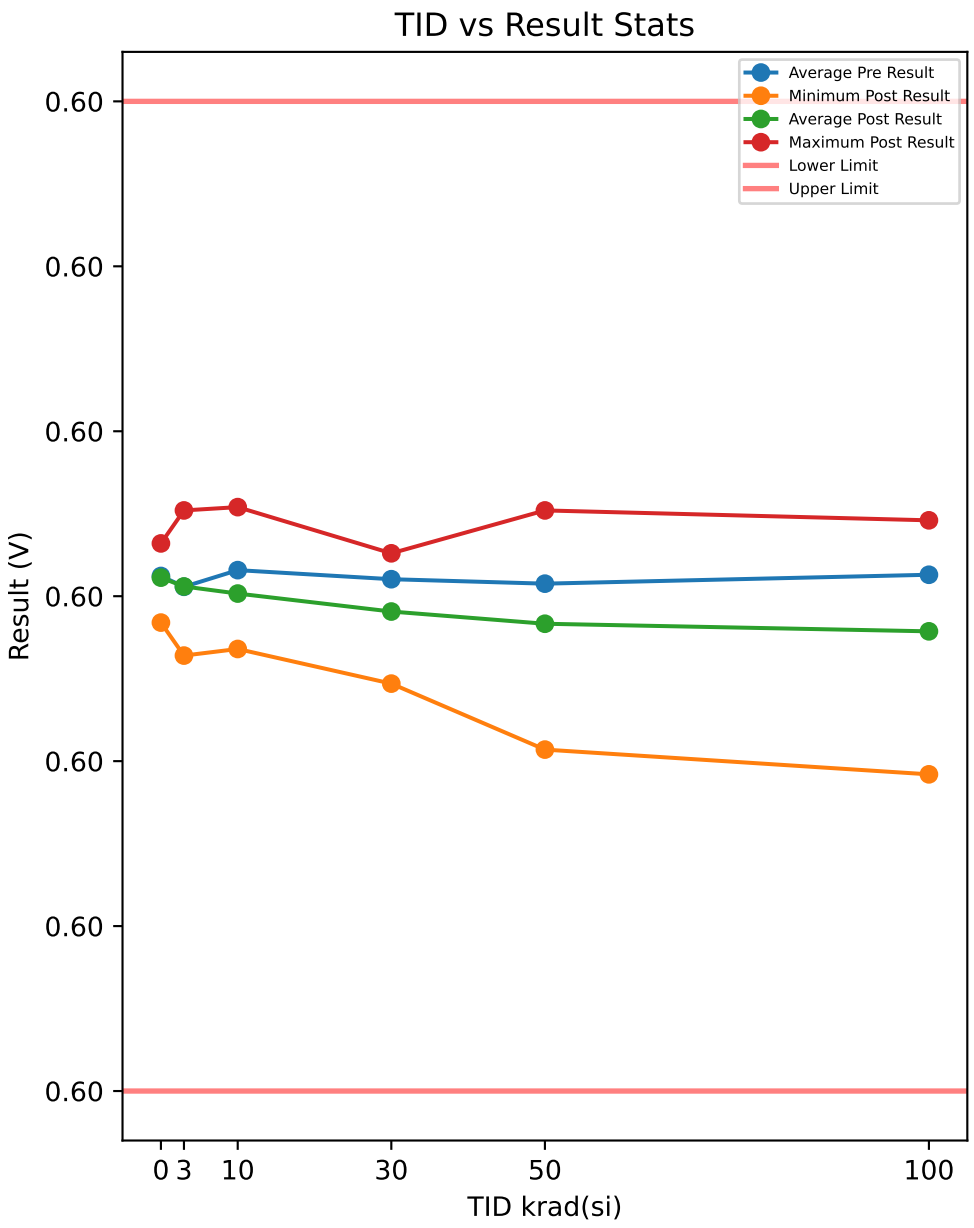
TID vs Post - Pre Exposure Delta

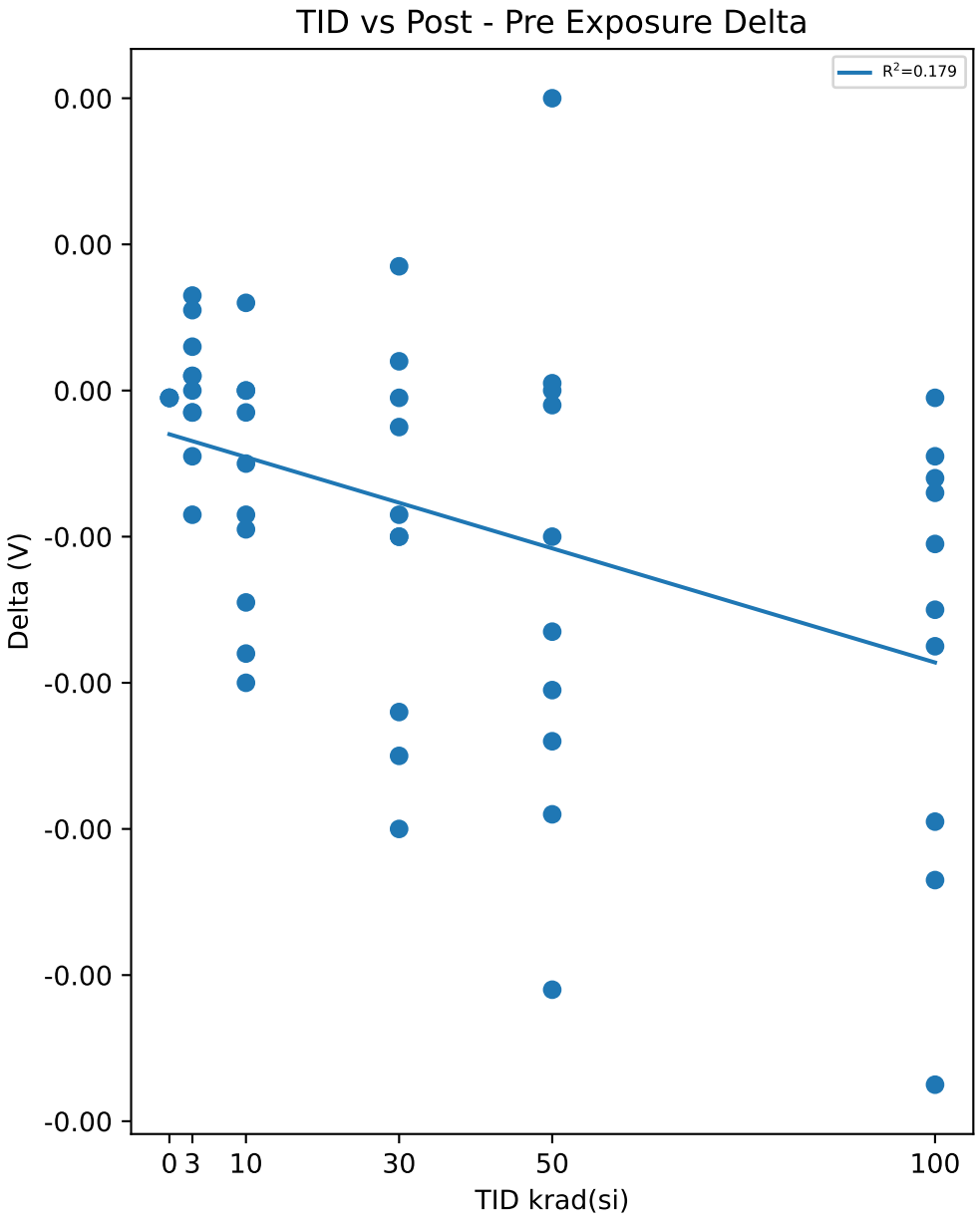


Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4212	-0.36907	-0.3249	0.048487	-0.7838	-0.51865	-0.2903	0.20462	-0.453	-0.14958	0.0346	0.21398
3	-0.6061	-0.45237	-0.3276	0.08509	-0.7088	-0.46019	-0.1373	0.21353	-0.2969	-0.00782	0.272	0.18824
10	-0.4899	-0.4217	-0.3468	0.040924	-0.6963	-0.37954	0.1561	0.25981	-0.2907	0.04216	0.5773	0.27428
30	-0.4993	-0.39959	-0.2683	0.080204	-0.74	-0.46066	0.0125	0.20649	-0.3937	-0.06107	0.4936	0.2475
50	-0.4712	-0.39924	-0.3312	0.043259	-0.7244	-0.48233	-0.0905	0.21169	-0.3589	-0.08309	0.2902	0.21611
100	-0.6061	-0.43733	-0.3686	0.0688	-0.7119	-0.3246	0.0999	0.29384	-0.2621	0.11273	0.4806	0.27832

Device Test: 19.19 VOLTAGE|VREF//12/12/0/0/5/100kHz//@VREF_25C





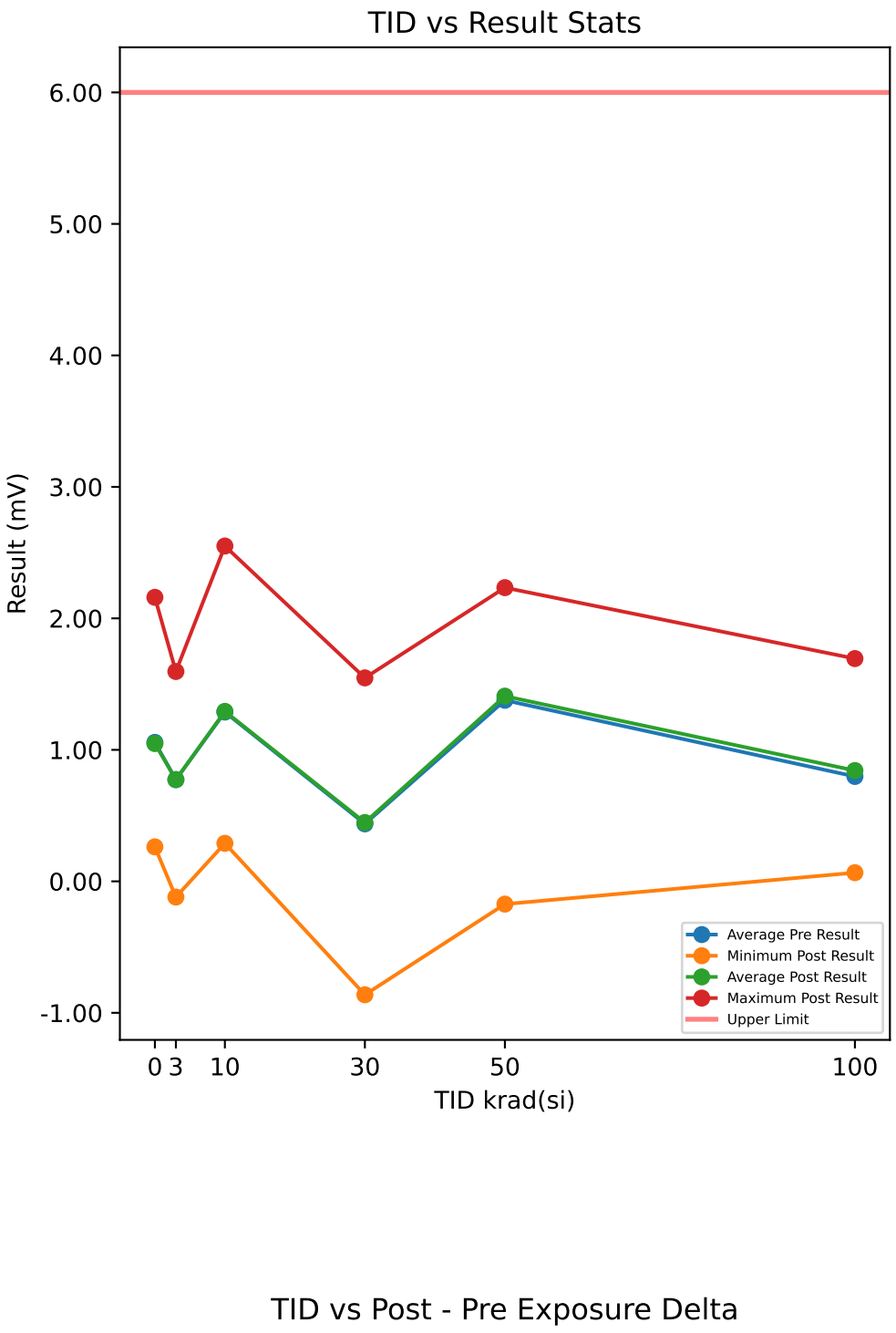
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

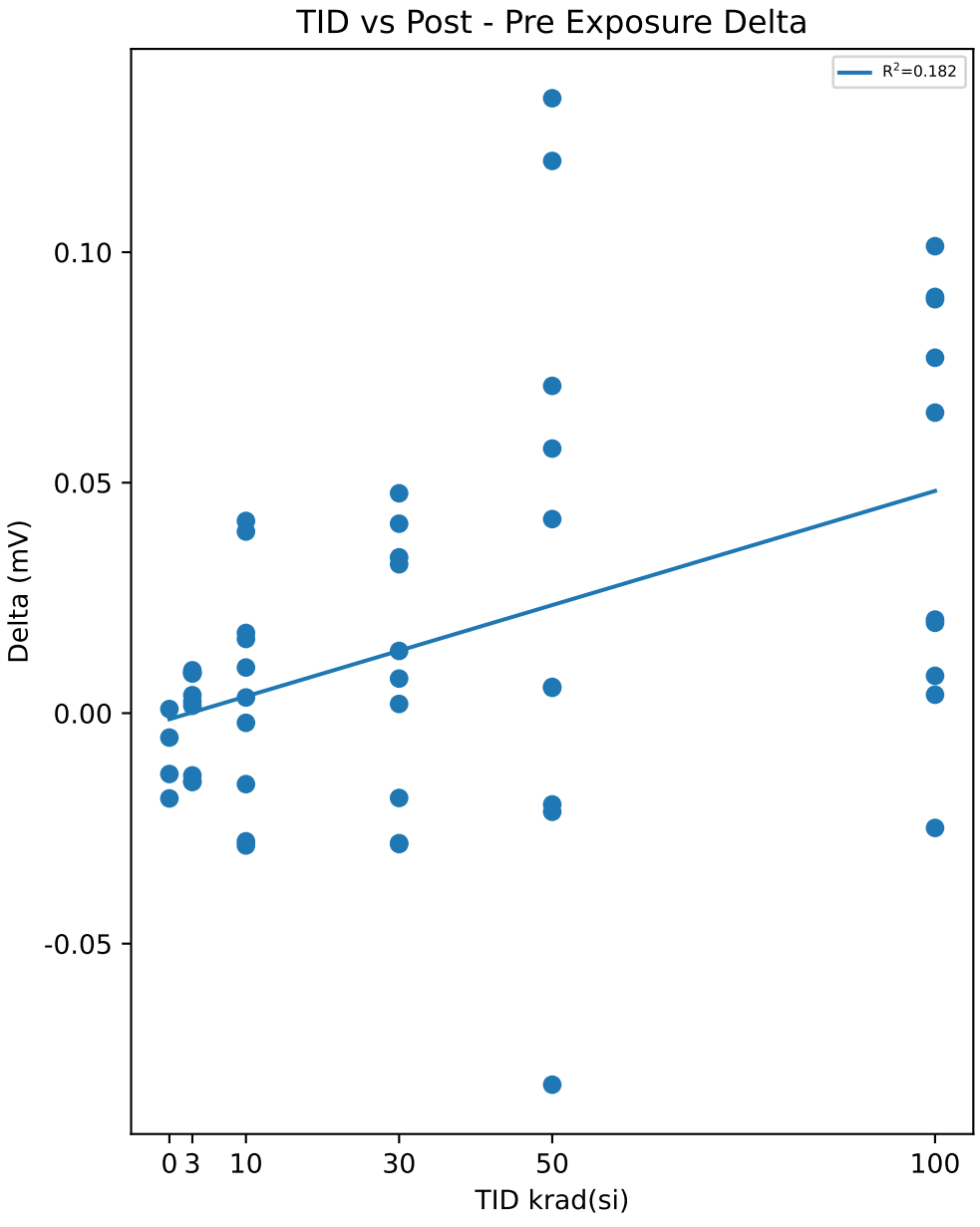
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60002	0.59999	-3e-05
2	3	HDR BIAS	0.60046	0.60052	6e-05
3	3	HDR BIAS	0.59992	0.60003	0.00011
4	3	HDR BIAS	0.60039	0.60052	0.00013
5	3	HDR BIAS	0.59973	0.59964	-9e-05
6	3	HDR UNBIAS	0.59984	0.59984	0
7	3	HDR UNBIAS	0.60017	0.6	-0.00017
8	3	HDR UNBIAS	0.60031	0.60028	-3e-05
9	3	HDR UNBIAS	0.59988	0.5999	2e-05
10	3	HDR UNBIAS	0.59985	0.59987	2e-05
11	10	HDR BIAS	0.60042	0.60054	0.00012
12	10	HDR BIAS	0.60004	0.59968	-0.00036
13	10	HDR BIAS	0.59993	0.59993	0
14	10	HDR BIAS	0.60034	0.60024	-0.0001
15	10	HDR BIAS	0.60017	0.60014	-3e-05
16	10	HDR UNBIAS	0.60023	0.59994	-0.00029
17	10	HDR UNBIAS	0.60012	0.59972	-0.0004
18	10	HDR UNBIAS	0.60008	0.59991	-0.00017
19	10	HDR UNBIAS	0.60037	0.60037	0
20	10	HDR UNBIAS	0.59988	0.59969	-0.00019
31	30	HDR BIAS	0.60025	0.60024	-1e-05
32	30	HDR BIAS	0.60021	0.59961	-0.0006
33	30	HDR BIAS	0.60028	0.60023	-5e-05
34	30	HDR BIAS	0.60046	0.60026	-0.0002
35	30	HDR BIAS	0.59994	0.59974	-0.0002
36	30	HDR UNBIAS	0.59988	0.60005	0.00017
37	30	HDR UNBIAS	0.59995	0.59951	-0.00044
38	30	HDR UNBIAS	0.60005	0.60009	4e-05
39	30	HDR UNBIAS	0.59997	0.59947	-0.0005
40	30	HDR UNBIAS	0.60004	0.59987	-0.00017
41	50	HDR BIAS	0.60012	0.60052	0.0004
42	50	HDR BIAS	0.60007	0.59966	-0.00041
43	50	HDR BIAS	0.60006	0.59958	-0.00048
44	50	HDR BIAS	0.5999	0.59932	-0.00058
45	50	HDR BIAS	0.59975	0.59955	-0.0002
46	50	HDR UNBIAS	0.60048	0.60015	-0.00033
47	50	HDR UNBIAS	0.60022	0.6002	-2e-05
48	50	HDR UNBIAS	0.59989	0.59907	-0.00082
49	50	HDR UNBIAS	0.60042	0.60043	1e-05
50	50	HDR UNBIAS	0.59985	0.59985	0
51	100	HDR BIAS	0.59987	0.59892	-0.00095
52	100	HDR BIAS	0.59976	0.59962	-0.00014
53	100	HDR BIAS	0.60052	0.59993	-0.00059
54	100	HDR BIAS	0.6001	0.59943	-0.00067
55	100	HDR BIAS	0.60024	0.59994	-0.0003
56	100	HDR UNBIAS	0.59977	0.59976	-1e-05
57	100	HDR UNBIAS	0.60025	0.60004	-0.00021
58	100	HDR UNBIAS	0.59982	0.59947	-0.00035
59	100	HDR UNBIAS	0.60042	0.6003	-0.00012
60	100	HDR UNBIAS	0.60055	0.60046	-9e-05
91	0	CORRELATION	0.60033	0.60032	-1e-05
92	0	CORRELATION	0.60023	0.60022	-1e-05
93	0	CORRELATION	0.59985	0.59984	-1e-05
94	0	CORRELATION	0.60008	0.60007	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59985	0.60012	0.60033	0.00020871	0.59984	0.60011	0.60032	0.00020871	-1e-05	-1e-05	-1e-05	6.4099e-17
3	0.59973	0.60006	0.60046	0.00025786	0.59964	0.60006	0.60052	0.00029202	-0.00017	2e-06	0.00013	8.9542e-05
10	0.59988	0.60016	0.60042	0.00018341	0.59968	0.60002	0.60054	0.00029752	-0.0004	-0.000142	0.00012	0.00017074
30	0.59988	0.6001	0.60046	0.00018738	0.59947	0.59991	0.60026	0.00030909	-0.0006	-0.000196	0.00017	0.00024976
50	0.59975	0.60008	0.60048	0.00024208	0.59907	0.59983	0.60052	0.00048111	-0.00082	-0.000243	0.0004	0.00035374
100	0.59976	0.60013	0.60055	0.00031095	0.59892	0.59979	0.60046	0.0004512	-0.00095	-0.000343	-1e-05	0.00030218

Device Test: 19.21 VOLTAGE|OFFSET//12/12/0/0/5/100kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

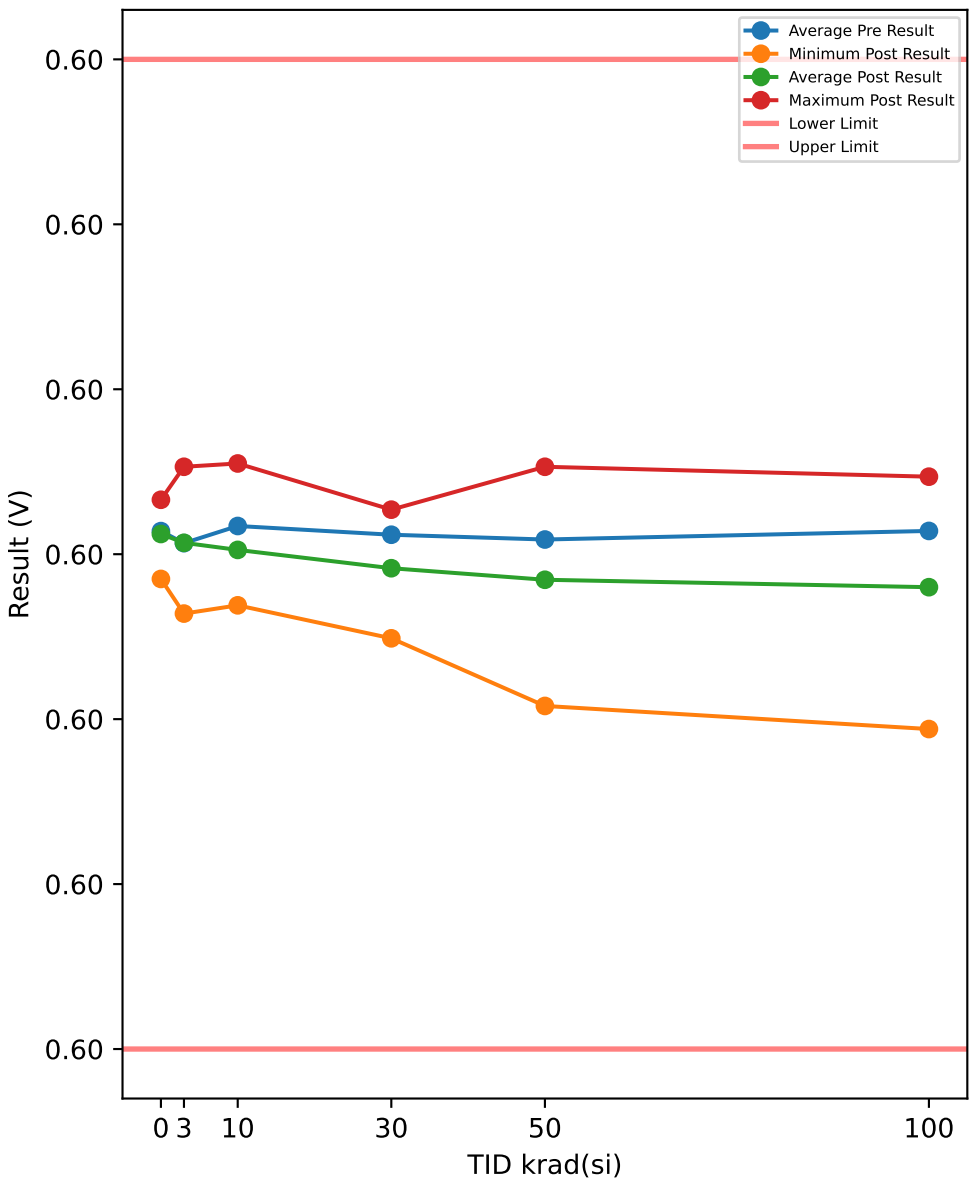
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.239	0.2415	0.0025
2	3	HDR BIAS	1.384	1.3928	0.0088
3	3	HDR BIAS	1.301	1.2875	-0.0135
4	3	HDR BIAS	0.3328	0.3367	0.0039
5	3	HDR BIAS	1.6107	1.5958	-0.0149
6	3	HDR UNBIAS	1.5159	1.5252	0.0093
7	3	HDR UNBIAS	-0.1048	-0.1197	-0.0149
8	3	HDR UNBIAS	0.2036	0.2122	0.0086
9	3	HDR UNBIAS	1.1378	1.1465	0.0087
10	3	HDR UNBIAS	0.1154	0.117	0.0016
11	10	HDR BIAS	1.1378	1.1795	0.0417
12	10	HDR BIAS	2.5788	2.5501	-0.0287
13	10	HDR BIAS	1.5748	1.6142	0.0394
14	10	HDR BIAS	0.9476	0.965	0.0174
15	10	HDR BIAS	0.441	0.4389	-0.0021
16	10	HDR UNBIAS	2.0162	2.0261	0.0099
17	10	HDR UNBIAS	1.3077	1.3111	0.0034
18	10	HDR UNBIAS	1.4699	1.4545	-0.0154
19	10	HDR UNBIAS	1.0822	1.0983	0.0161
20	10	HDR UNBIAS	0.3168	0.289	-0.0278
31	30	HDR BIAS	-0.0825	-0.069	0.0135
32	30	HDR BIAS	0.857	0.8908	0.0338
33	30	HDR BIAS	0.1263	0.1079	-0.0184
34	30	HDR BIAS	0.9194	0.9605	0.0411
35	30	HDR BIAS	1.04	1.0475	0.0075
36	30	HDR UNBIAS	1.5452	1.5472	0.002
37	30	HDR UNBIAS	0.5491	0.5209	-0.0282
38	30	HDR UNBIAS	-0.895	-0.8627	0.0323
39	30	HDR UNBIAS	-0.4859	-0.5143	-0.0284
40	30	HDR UNBIAS	0.7973	0.845	0.0477
41	50	HDR BIAS	2.1001	2.2335	0.1334
42	50	HDR BIAS	1.4801	1.4587	-0.0214
43	50	HDR BIAS	2.1382	2.1439	0.0057
44	50	HDR BIAS	1.388	1.459	0.071
45	50	HDR BIAS	1.2668	1.2723	0.0055
46	50	HDR UNBIAS	0.8277	0.7471	-0.0806
47	50	HDR UNBIAS	1.5477	1.6051	0.0574
48	50	HDR UNBIAS	1.3772	1.3574	-0.0198
49	50	HDR UNBIAS	1.9381	1.9802	0.0421
50	50	HDR UNBIAS	-0.293	-0.1732	0.1198
51	100	HDR BIAS	0.4257	0.5028	0.0771
52	100	HDR BIAS	1.6038	1.6941	0.0903
53	100	HDR BIAS	0.6026	0.6229	0.0203
54	100	HDR BIAS	1.3642	1.3723	0.0081
55	100	HDR BIAS	1.1162	1.1358	0.0196
56	100	HDR UNBIAS	1.0417	1.0457	0.004
57	100	HDR UNBIAS	1.1945	1.1696	-0.0249
58	100	HDR UNBIAS	-0.0356	0.0657	0.1013
59	100	HDR UNBIAS	0.0554	0.1206	0.0652
60	100	HDR UNBIAS	0.6071	0.6969	0.0898
91	0	CORRELATION	2.159	2.1599	0.0009
92	0	CORRELATION	0.6471	0.6339	-0.0132
93	0	CORRELATION	0.2675	0.2622	-0.0053
94	0	CORRELATION	1.1536	1.1351	-0.0185

Test Statistics (mV)

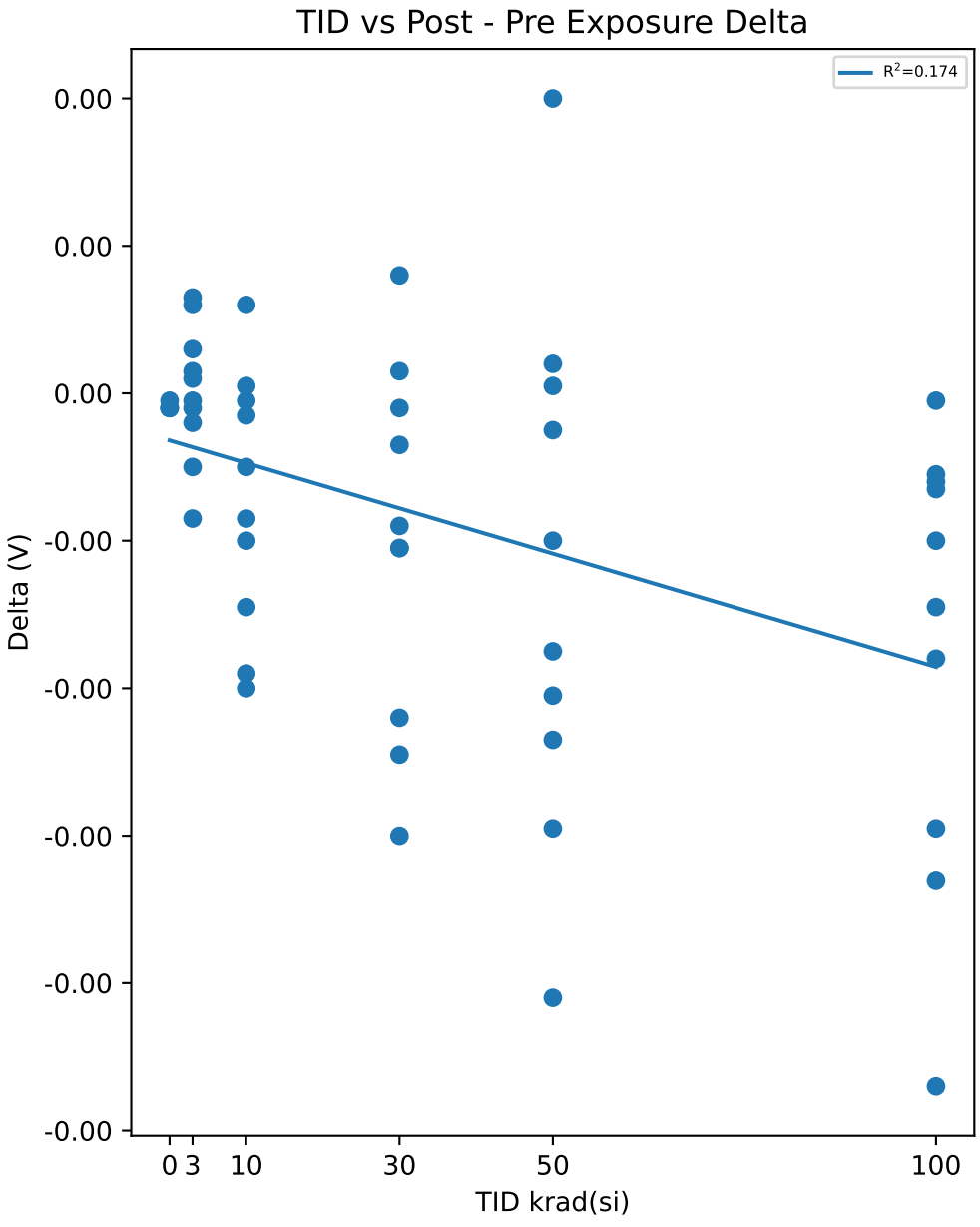
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2675	1.0568	2.159	0.81957	0.2622	1.0478	2.1599	0.82318	-0.0185	-0.009025	0.0009	0.0085555
3	-0.1048	0.77354	1.6107	0.6704	-0.1197	0.77355	1.5958	0.67047	-0.0149	1e-05	0.0093	0.010349
10	0.3168	1.2873	2.5788	0.67935	0.289	1.2927	2.5501	0.67849	-0.0287	0.00539	0.0417	0.024744
30	-0.895	0.43709	1.5452	0.75539	-0.8627	0.44738	1.5472	0.7613	-0.0284	0.01029	0.0477	0.02843
50	-0.293	1.3771	2.1382	0.71179	-0.1732	1.4084	2.2335	0.71121	-0.0806	0.03131	0.1334	0.066551
100	-0.0356	0.79756	1.6038	0.5525	0.0657	0.84264	1.6941	0.53225	-0.0249	0.04508	0.1013	0.044536

Device Test: 19.22 VOLTAGE|VREF//14/14/0/0/5/100kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



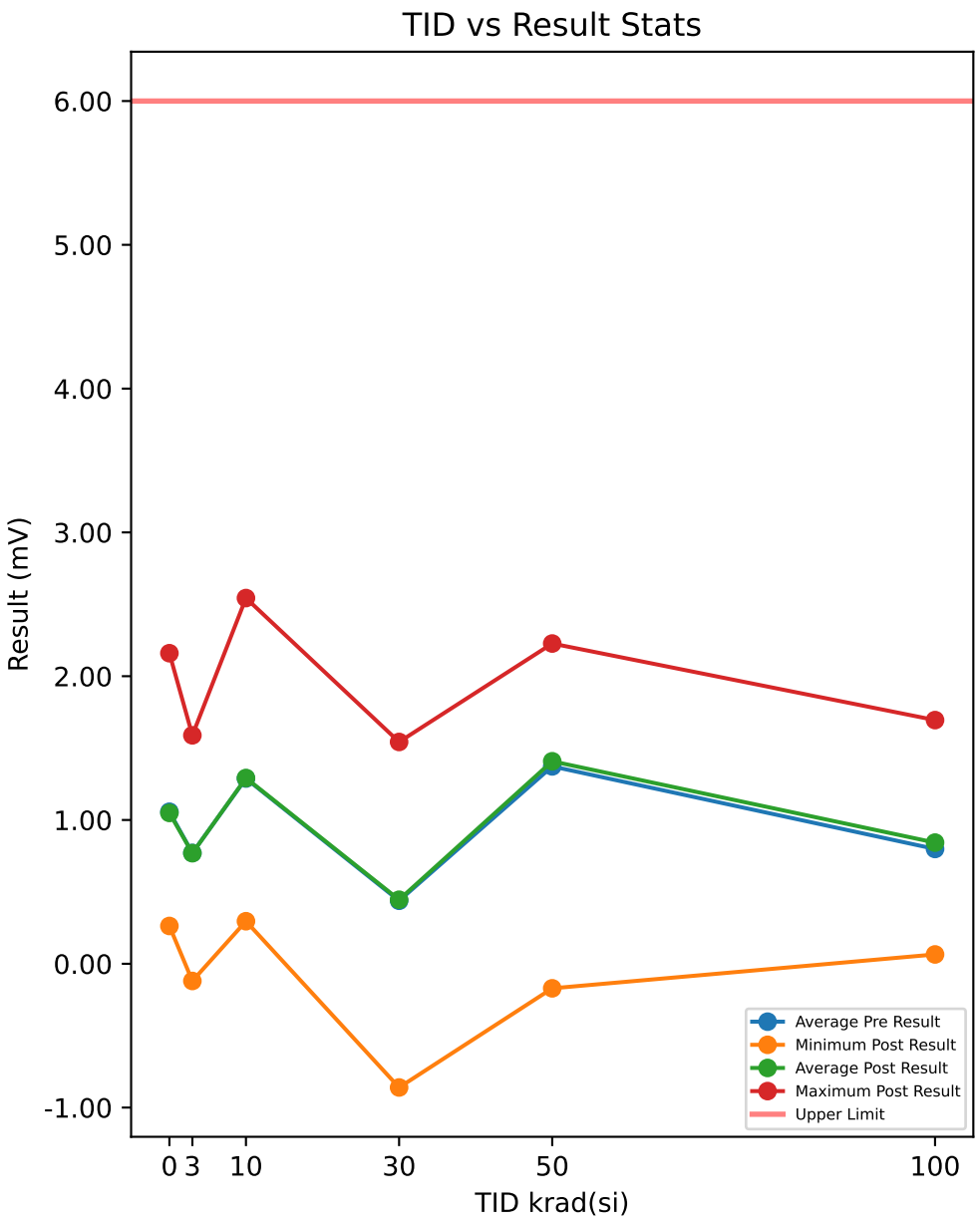
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

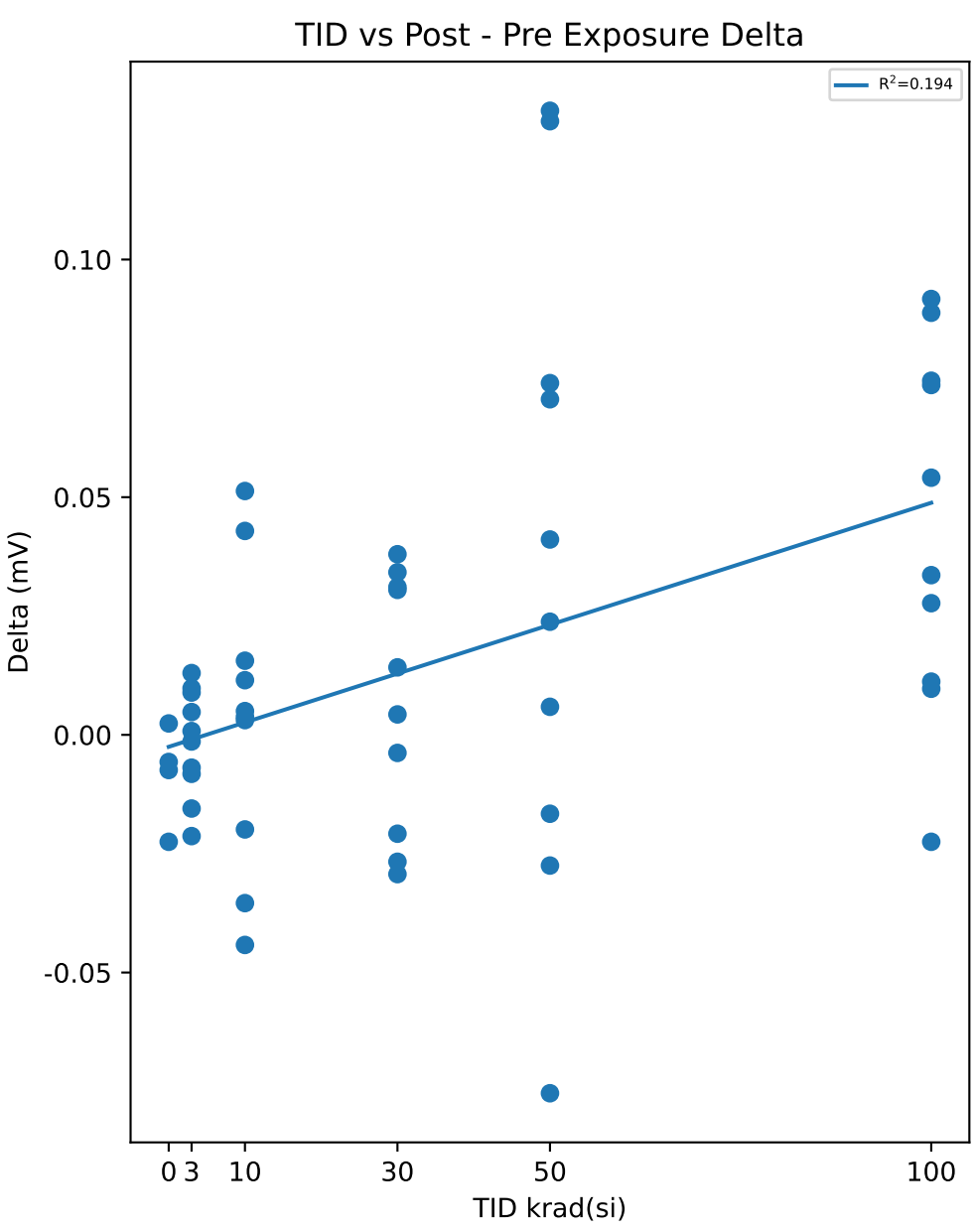
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60002	0.6	-2e-05
2	3	HDR BIAS	0.60047	0.60053	6e-05
3	3	HDR BIAS	0.59992	0.60005	0.00013
4	3	HDR BIAS	0.60041	0.60053	0.00012
5	3	HDR BIAS	0.59974	0.59964	-0.0001
6	3	HDR UNBIAS	0.59986	0.59985	-1e-05
7	3	HDR UNBIAS	0.60018	0.60001	-0.00017
8	3	HDR UNBIAS	0.60032	0.60028	-4e-05
9	3	HDR UNBIAS	0.59989	0.59991	2e-05
10	3	HDR UNBIAS	0.59986	0.59989	3e-05
11	10	HDR BIAS	0.60043	0.60055	0.00012
12	10	HDR BIAS	0.60007	0.59969	-0.00038
13	10	HDR BIAS	0.59994	0.59995	1e-05
14	10	HDR BIAS	0.60035	0.60025	-0.0001
15	10	HDR BIAS	0.60018	0.60015	-3e-05
16	10	HDR UNBIAS	0.60024	0.59995	-0.00029
17	10	HDR UNBIAS	0.60013	0.59973	-0.0004
18	10	HDR UNBIAS	0.60009	0.59992	-0.00017
19	10	HDR UNBIAS	0.60038	0.60037	-1e-05
20	10	HDR UNBIAS	0.5999	0.5997	-0.0002
31	30	HDR BIAS	0.60027	0.60025	-2e-05
32	30	HDR BIAS	0.60022	0.59962	-0.0006
33	30	HDR BIAS	0.60029	0.60022	-7e-05
34	30	HDR BIAS	0.60048	0.60027	-0.00021
35	30	HDR BIAS	0.59995	0.59974	-0.00021
36	30	HDR UNBIAS	0.5999	0.60006	0.00016
37	30	HDR UNBIAS	0.59996	0.59952	-0.00044
38	30	HDR UNBIAS	0.60007	0.6001	3e-05
39	30	HDR UNBIAS	0.59998	0.59949	-0.00049
40	30	HDR UNBIAS	0.60006	0.59988	-0.00018
41	50	HDR BIAS	0.60013	0.60053	0.0004
42	50	HDR BIAS	0.60008	0.59967	-0.00041
43	50	HDR BIAS	0.60007	0.5996	-0.00047
44	50	HDR BIAS	0.59992	0.59933	-0.00059
45	50	HDR BIAS	0.59976	0.59956	-0.0002
46	50	HDR UNBIAS	0.6005	0.60015	-0.00035
47	50	HDR UNBIAS	0.60025	0.6002	-5e-05
48	50	HDR UNBIAS	0.5999	0.59908	-0.00082
49	50	HDR UNBIAS	0.60042	0.60046	4e-05
50	50	HDR UNBIAS	0.59986	0.59987	1e-05
51	100	HDR BIAS	0.59988	0.59894	-0.00094
52	100	HDR BIAS	0.59977	0.59965	-0.00012
53	100	HDR BIAS	0.60052	0.59993	-0.00059
54	100	HDR BIAS	0.6001	0.59944	-0.00066
55	100	HDR BIAS	0.60025	0.59996	-0.00029
56	100	HDR UNBIAS	0.59978	0.59977	-1e-05
57	100	HDR UNBIAS	0.60026	0.60006	-0.0002
58	100	HDR UNBIAS	0.59984	0.59948	-0.00036
59	100	HDR UNBIAS	0.60043	0.6003	-0.00013
60	100	HDR UNBIAS	0.60058	0.60047	-0.00011
91	0	CORRELATION	0.60035	0.60033	-2e-05
92	0	CORRELATION	0.60025	0.60023	-2e-05
93	0	CORRELATION	0.59986	0.59985	-1e-05
94	0	CORRELATION	0.6001	0.60008	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59986	0.60014	0.60035	0.00021307	0.59985	0.60012	0.60033	0.00020871	-2e-05	-1.75e-05	-1e-05	5e-06
3	0.59974	0.60007	0.60047	0.00025919	0.59964	0.60007	0.60053	0.00029202	-0.00017	2e-06	0.00013	9.2592e-05
10	0.5999	0.60017	0.60043	0.0001804	0.59969	0.60003	0.60055	0.00029591	-0.0004	-0.000145	0.00012	0.00017405
30	0.5999	0.60012	0.60048	0.00018843	0.59949	0.59991	0.60027	0.00030588	-0.0006	-0.000203	0.00016	0.00024359
50	0.59976	0.60009	0.6005	0.00024301	0.59908	0.59984	0.60053	0.00048183	-0.00082	-0.000244	0.0004	0.00035603
100	0.59977	0.60014	0.60058	0.00031168	0.59894	0.5998	0.60047	0.00044771	-0.00094	-0.000341	-1e-05	0.00029846

Device Test: 19.24 VOLTAGE|OFFSET//14/14/0/0/5/100kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

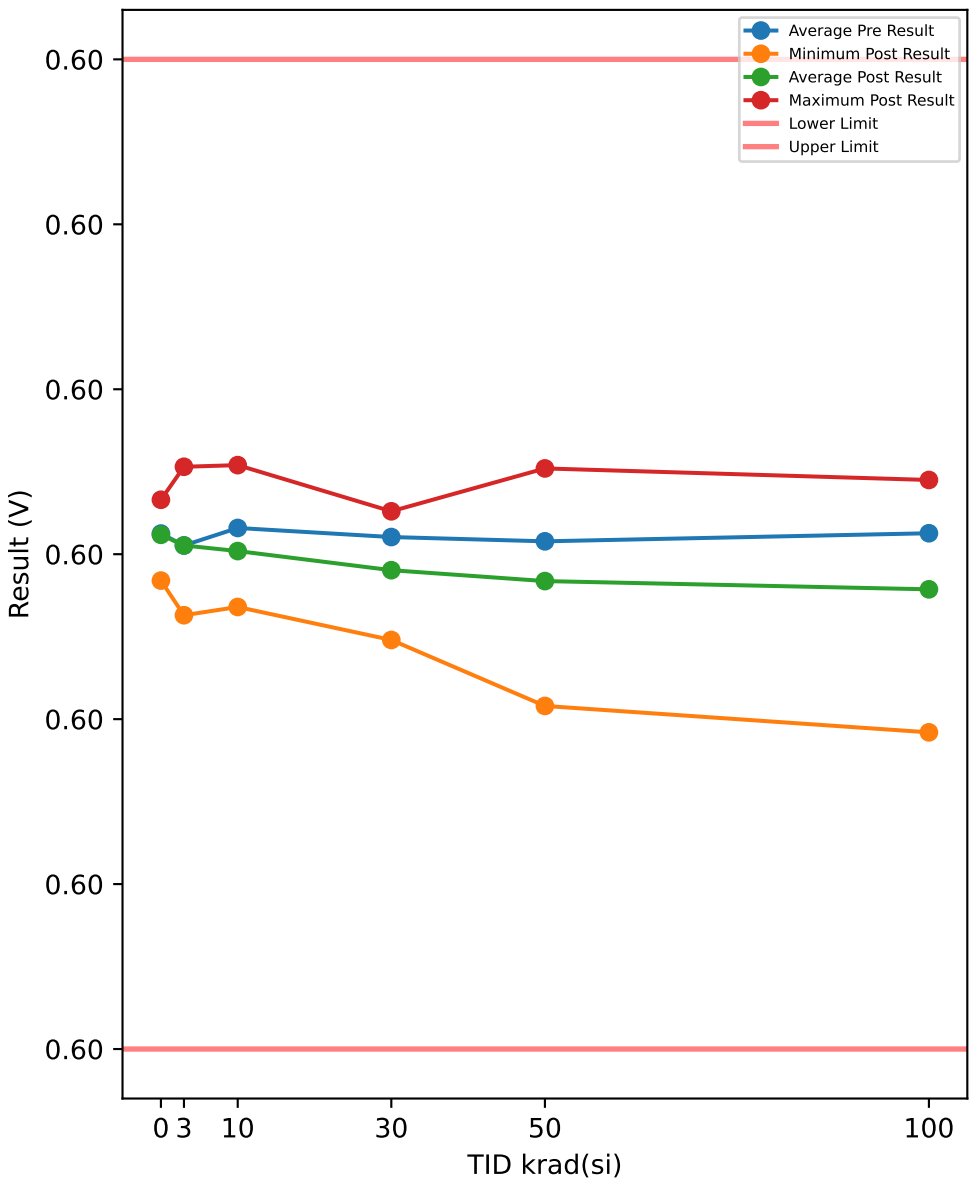
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.2322	0.242	0.0098
2	3	HDR BIAS	1.3777	1.3907	0.013
3	3	HDR BIAS	1.2917	1.2835	-0.0082
4	3	HDR BIAS	0.3373	0.3304	-0.0069
5	3	HDR BIAS	1.6101	1.5888	-0.0213
6	3	HDR UNBIAS	1.5205	1.5213	0.0008
7	3	HDR UNBIAS	-0.104	-0.1195	-0.0155
8	3	HDR UNBIAS	0.2047	0.2095	0.0048
9	3	HDR UNBIAS	1.1287	1.1376	0.0089
10	3	HDR UNBIAS	0.1081	0.1067	-0.0014
11	10	HDR BIAS	1.1292	1.1721	0.0429
12	10	HDR BIAS	2.5876	2.5434	-0.0442
13	10	HDR BIAS	1.5726	1.6239	0.0513
14	10	HDR BIAS	0.9517	0.9673	0.0156
15	10	HDR BIAS	0.4332	0.4447	0.0115
16	10	HDR UNBIAS	2.0129	2.0179	0.005
17	10	HDR UNBIAS	1.3132	1.317	0.0038
18	10	HDR UNBIAS	1.4858	1.4504	-0.0354
19	10	HDR UNBIAS	1.0821	1.0852	0.0031
20	10	HDR UNBIAS	0.3158	0.2959	-0.0199
31	30	HDR BIAS	-0.0819	-0.0677	0.0142
32	30	HDR BIAS	0.856	0.8902	0.0342
33	30	HDR BIAS	0.1202	0.0994	-0.0208
34	30	HDR BIAS	0.9241	0.9621	0.038
35	30	HDR BIAS	1.038	1.0423	0.0043
36	30	HDR UNBIAS	1.5464	1.5426	-0.0038
37	30	HDR UNBIAS	0.5497	0.523	-0.0267
38	30	HDR UNBIAS	-0.8914	-0.8603	0.0311
39	30	HDR UNBIAS	-0.48	-0.5093	-0.0293
40	30	HDR UNBIAS	0.801	0.8315	0.0305
41	50	HDR BIAS	2.0959	2.2272	0.1313
42	50	HDR BIAS	1.4852	1.4577	-0.0275
43	50	HDR BIAS	2.1395	2.1454	0.0059
44	50	HDR BIAS	1.3846	1.4552	0.0706
45	50	HDR BIAS	1.2584	1.2822	0.0238
46	50	HDR UNBIAS	0.823	0.7476	-0.0754
47	50	HDR UNBIAS	1.5593	1.6004	0.0411
48	50	HDR UNBIAS	1.3685	1.3519	-0.0166
49	50	HDR UNBIAS	1.9124	1.9864	0.074
50	50	HDR UNBIAS	-0.2998	-0.1707	0.1291
51	100	HDR BIAS	0.4283	0.5028	0.0745
52	100	HDR BIAS	1.6059	1.6947	0.0888
53	100	HDR BIAS	0.5915	0.6192	0.0277
54	100	HDR BIAS	1.3576	1.3688	0.0112
55	100	HDR BIAS	1.1087	1.1423	0.0336
56	100	HDR UNBIAS	1.0382	1.0479	0.0097
57	100	HDR UNBIAS	1.1967	1.1742	-0.0225
58	100	HDR UNBIAS	-0.0268	0.0649	0.0917
59	100	HDR UNBIAS	0.0553	0.1094	0.0541
60	100	HDR UNBIAS	0.6289	0.7025	0.0736
91	0	CORRELATION	2.1575	2.1599	0.0024
92	0	CORRELATION	0.6566	0.6341	-0.0225
93	0	CORRELATION	0.2686	0.2629	-0.0057
94	0	CORRELATION	1.1467	1.1393	-0.0074

Test Statistics (mV)

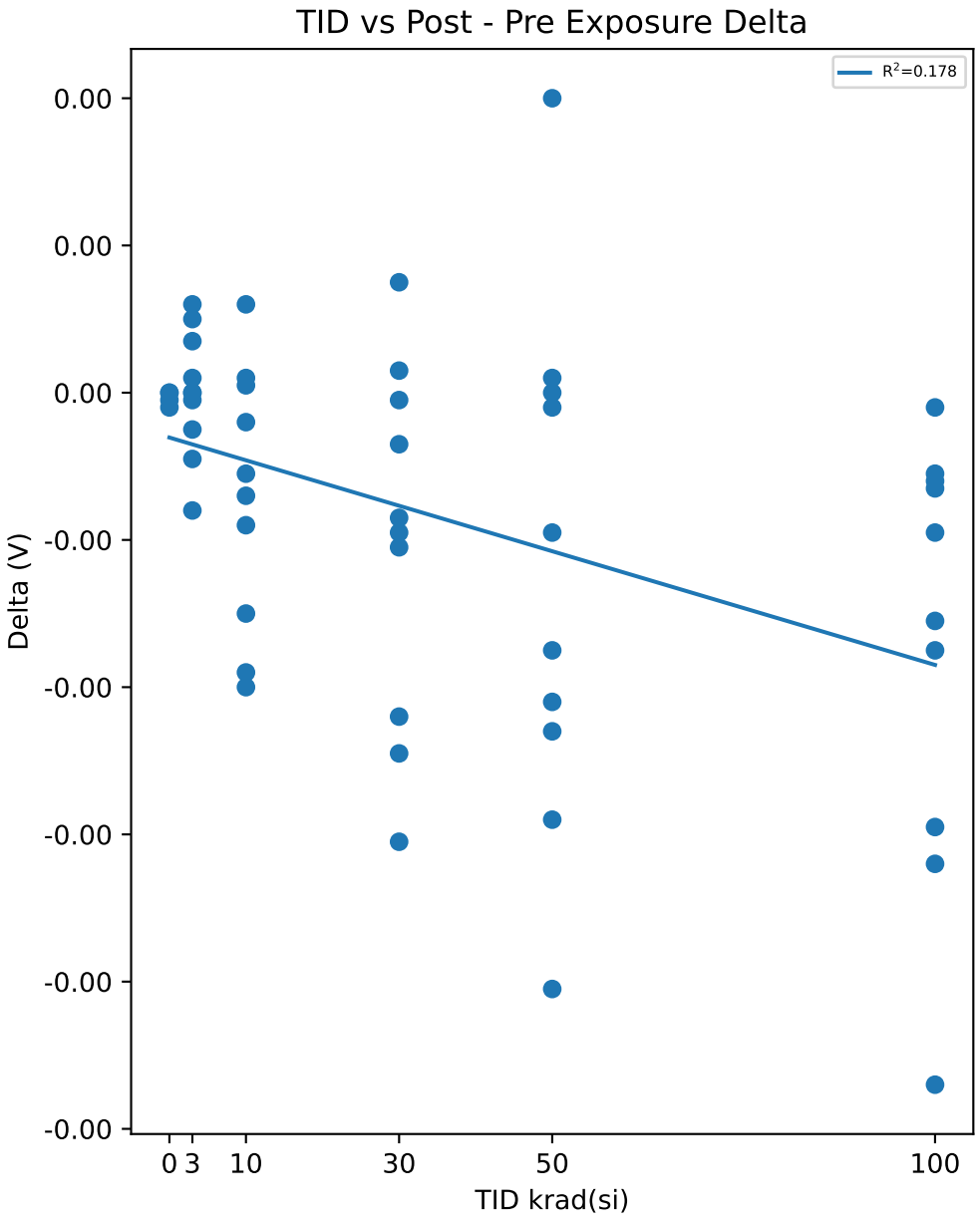
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2686	1.0574	2.1575	0.81671	0.2629	1.0491	2.1599	0.82307	-0.0225	-0.0083	0.0024	0.010387
3	-0.104	0.7707	1.6101	0.66976	-0.1195	0.7691	1.5888	0.66969	-0.0213	-0.0016	0.013	0.011319
10	0.3158	1.2884	2.5876	0.68246	0.2959	1.2918	2.5434	0.67507	-0.0442	0.00337	0.0513	0.030525
30	-0.8914	0.43821	1.5464	0.75463	-0.8603	0.44538	1.5426	0.75861	-0.0293	0.00717	0.038	0.026322
50	-0.2998	1.3727	2.1395	0.71199	-0.1707	1.4083	2.2272	0.71013	-0.0754	0.03563	0.1313	0.06723
100	-0.0268	0.79843	1.6059	0.54963	0.0649	0.84267	1.6947	0.53461	-0.0225	0.04424	0.0917	0.038353

Device Test: 19.25 VOLTAGE|VREF//12/12/0/0/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



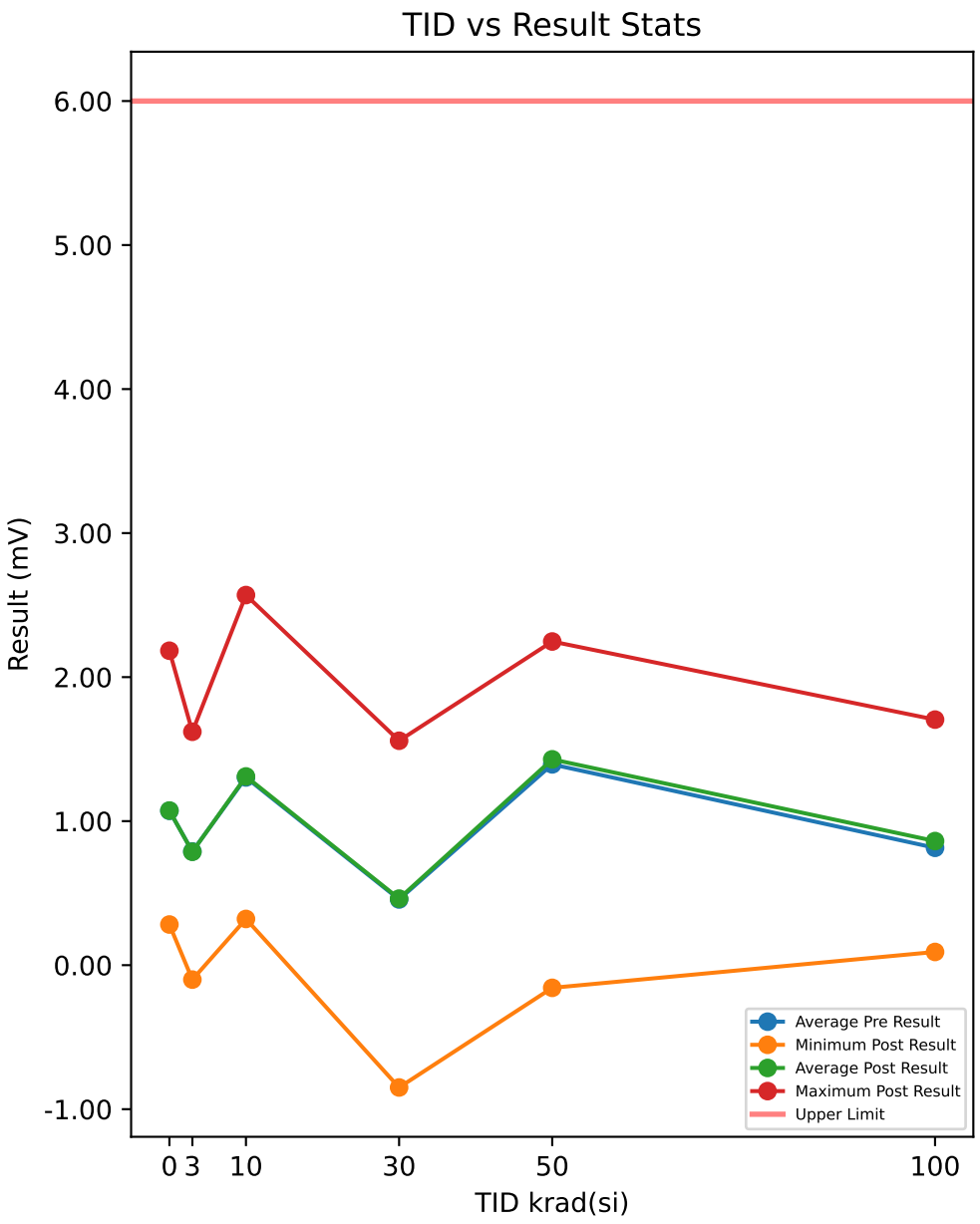
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

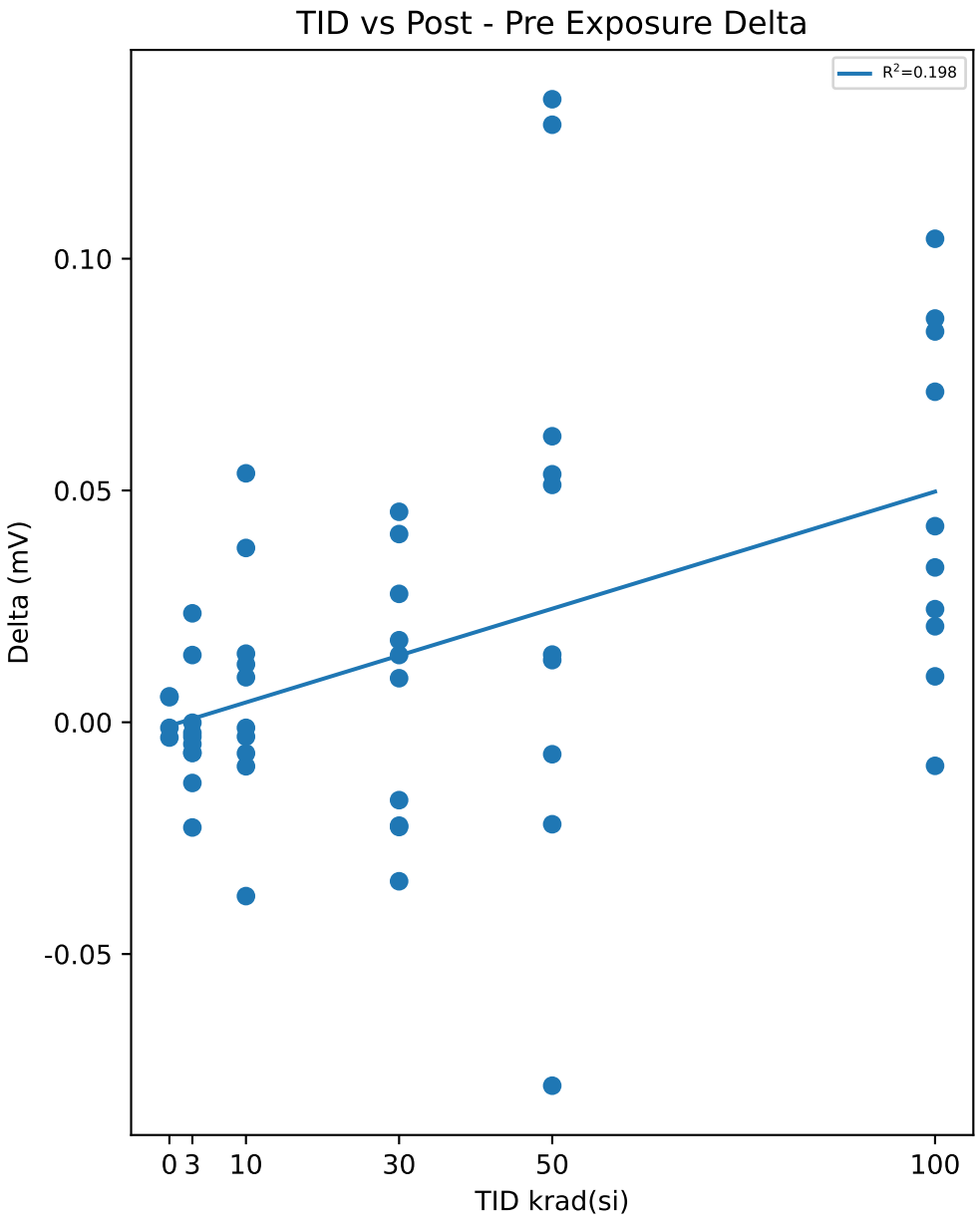
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60001	0.59996	-5e-05
2	3	HDR BIAS	0.60046	0.60053	7e-05
3	3	HDR BIAS	0.59992	0.60002	0.0001
4	3	HDR BIAS	0.60039	0.60051	0.00012
5	3	HDR BIAS	0.59972	0.59963	-9e-05
6	3	HDR UNBIAS	0.59984	0.59984	0
7	3	HDR UNBIAS	0.60016	0.6	-0.00016
8	3	HDR UNBIAS	0.6003	0.60029	-1e-05
9	3	HDR UNBIAS	0.59988	0.59988	0
10	3	HDR UNBIAS	0.59985	0.59987	2e-05
11	10	HDR BIAS	0.60042	0.60054	0.00012
12	10	HDR BIAS	0.60006	0.59968	-0.00038
13	10	HDR BIAS	0.59992	0.59994	2e-05
14	10	HDR BIAS	0.60035	0.60024	-0.00011
15	10	HDR BIAS	0.60018	0.60014	-4e-05
16	10	HDR UNBIAS	0.60024	0.59994	-0.0003
17	10	HDR UNBIAS	0.60012	0.59972	-0.0004
18	10	HDR UNBIAS	0.60007	0.59993	-0.00014
19	10	HDR UNBIAS	0.60035	0.60036	1e-05
20	10	HDR UNBIAS	0.59988	0.5997	-0.00018
31	30	HDR BIAS	0.60024	0.60023	-1e-05
32	30	HDR BIAS	0.60022	0.59961	-0.00061
33	30	HDR BIAS	0.60028	0.60021	-7e-05
34	30	HDR BIAS	0.60045	0.60026	-0.00019
35	30	HDR BIAS	0.59994	0.59973	-0.00021
36	30	HDR UNBIAS	0.5999	0.60005	0.00015
37	30	HDR UNBIAS	0.59994	0.5995	-0.00044
38	30	HDR UNBIAS	0.60006	0.60009	3e-05
39	30	HDR UNBIAS	0.59997	0.59948	-0.00049
40	30	HDR UNBIAS	0.60004	0.59987	-0.00017
41	50	HDR BIAS	0.60012	0.60052	0.0004
42	50	HDR BIAS	0.60008	0.59966	-0.00042
43	50	HDR BIAS	0.60005	0.59959	-0.00046
44	50	HDR BIAS	0.59991	0.59933	-0.00058
45	50	HDR BIAS	0.59975	0.59956	-0.00019
46	50	HDR UNBIAS	0.60048	0.60013	-0.00035
47	50	HDR UNBIAS	0.60023	0.60021	-2e-05
48	50	HDR UNBIAS	0.59989	0.59908	-0.00081
49	50	HDR UNBIAS	0.60042	0.60044	2e-05
50	50	HDR UNBIAS	0.59985	0.59985	0
51	100	HDR BIAS	0.59986	0.59892	-0.00094
52	100	HDR BIAS	0.59975	0.59963	-0.00012
53	100	HDR BIAS	0.60051	0.59992	-0.00059
54	100	HDR BIAS	0.60009	0.59945	-0.00064
55	100	HDR BIAS	0.60024	0.59993	-0.00031
56	100	HDR UNBIAS	0.59978	0.59976	-2e-05
57	100	HDR UNBIAS	0.60024	0.60005	-0.00019
58	100	HDR UNBIAS	0.59982	0.59947	-0.00035
59	100	HDR UNBIAS	0.60042	0.60029	-0.00013
60	100	HDR UNBIAS	0.60056	0.60045	-0.00011
91	0	CORRELATION	0.60034	0.60033	-1e-05
92	0	CORRELATION	0.60023	0.60023	0
93	0	CORRELATION	0.59984	0.59984	0
94	0	CORRELATION	0.60009	0.60007	-2e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59984	0.60013	0.60034	0.00021579	0.59984	0.60012	0.60033	0.00021376	-2e-05	-7.5e-06	0	9.5743e-06
3	0.59972	0.60005	0.60046	0.0002579	0.59963	0.60005	0.60053	0.0002968	-0.00016	0	0.00012	8.5635e-05
10	0.59988	0.60016	0.60042	0.00018327	0.59968	0.60002	0.60054	0.00029396	-0.0004	-0.00014	0.00012	0.00017607
30	0.5999	0.6001	0.60045	0.00018319	0.59948	0.5999	0.60026	0.00030612	-0.00061	-0.000201	0.00015	0.00024479
50	0.59975	0.60008	0.60048	0.00024207	0.59908	0.59984	0.60052	0.00047777	-0.00081	-0.000241	0.0004	0.00035262
100	0.59975	0.60013	0.60056	0.00031181	0.59892	0.59979	0.60045	0.0004461	-0.00094	-0.00034	-2e-05	0.00029511

Device Test: 19.27 VOLTAGE|OFFSET//12/12/0/0/5/500kHz//@EA_OS





Test Results (Upper Limit = 6.0 (mV))

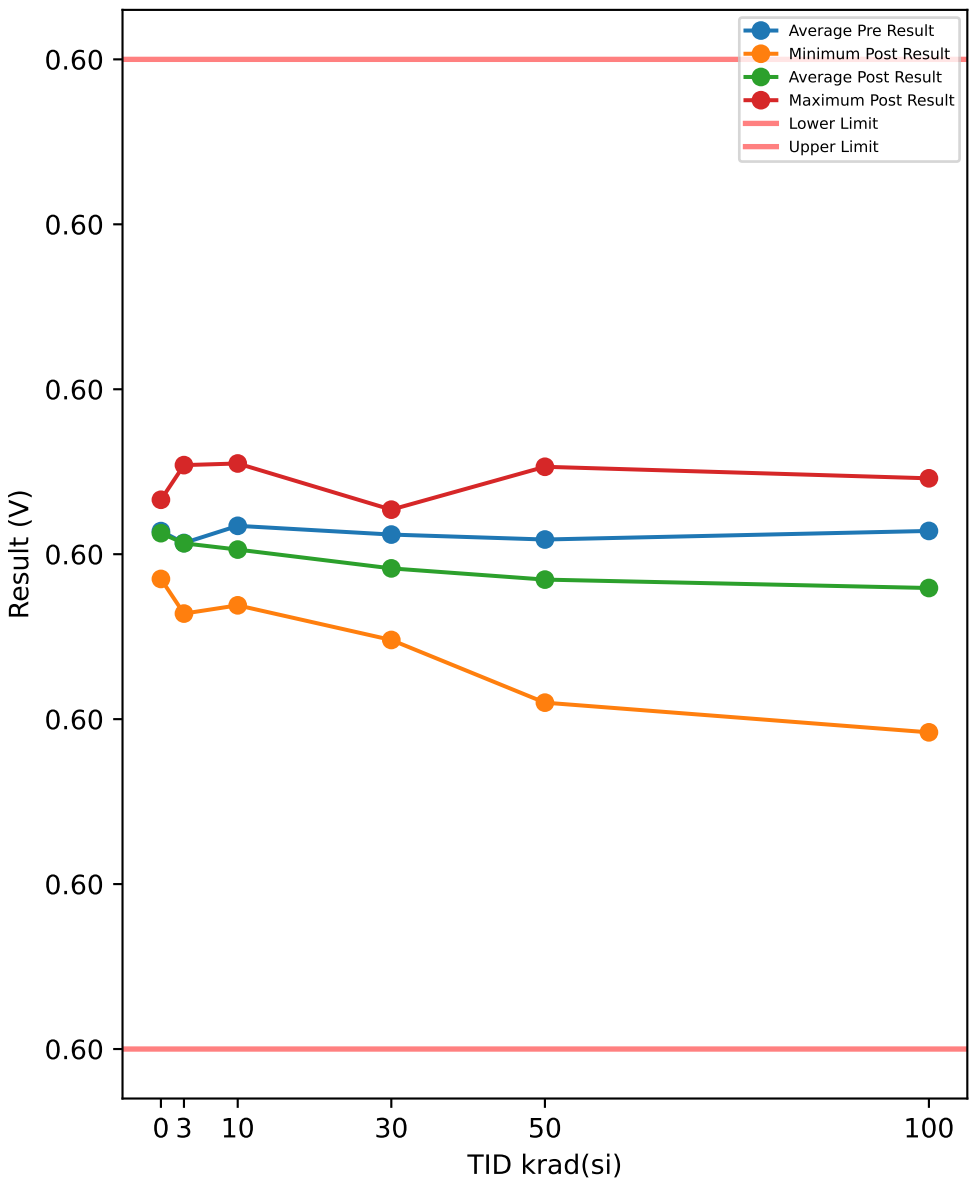
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.252	0.2489	-0.0031
2	3	HDR BIAS	1.3933	1.4168	0.0235
3	3	HDR BIAS	1.3146	1.2919	-0.0227
4	3	HDR BIAS	0.3529	0.3463	-0.0066
5	3	HDR BIAS	1.6272	1.6206	-0.0066
6	3	HDR UNBIAS	1.5449	1.5426	-0.0023
7	3	HDR UNBIAS	-0.0956	-0.1003	-0.0047
8	3	HDR UNBIAS	0.2143	0.2288	0.0145
9	3	HDR UNBIAS	1.159	1.1459	-0.0131
10	3	HDR UNBIAS	0.1312	0.1311	-0.0001
11	10	HDR BIAS	1.1524	1.19	0.0376
12	10	HDR BIAS	2.6073	2.5698	-0.0375
13	10	HDR BIAS	1.5803	1.634	0.0537
14	10	HDR BIAS	0.9733	0.9881	0.0148
15	10	HDR BIAS	0.4524	0.4512	-0.0012
16	10	HDR UNBIAS	2.03	2.0425	0.0125
17	10	HDR UNBIAS	1.3346	1.3251	-0.0095
18	10	HDR UNBIAS	1.4834	1.4767	-0.0067
19	10	HDR UNBIAS	1.0955	1.1052	0.0097
20	10	HDR UNBIAS	0.324	0.3209	-0.0031
31	30	HDR BIAS	-0.0718	-0.0541	0.0177
32	30	HDR BIAS	0.8885	0.9162	0.0277
33	30	HDR BIAS	0.1409	0.1183	-0.0226
34	30	HDR BIAS	0.9307	0.9713	0.0406
35	30	HDR BIAS	1.0554	1.0649	0.0095
36	30	HDR UNBIAS	1.575	1.5582	-0.0168
37	30	HDR UNBIAS	0.5691	0.5348	-0.0343
38	30	HDR UNBIAS	-0.8638	-0.8493	0.0145
39	30	HDR UNBIAS	-0.4687	-0.491	-0.0223
40	30	HDR UNBIAS	0.8056	0.851	0.0454
41	50	HDR BIAS	2.1129	2.2473	0.1344
42	50	HDR BIAS	1.501	1.479	-0.022
43	50	HDR BIAS	2.1505	2.1651	0.0146
44	50	HDR BIAS	1.4162	1.4779	0.0617
45	50	HDR BIAS	1.2895	1.3029	0.0134
46	50	HDR UNBIAS	0.8403	0.7619	-0.0784
47	50	HDR UNBIAS	1.575	1.6262	0.0512
48	50	HDR UNBIAS	1.3894	1.3825	-0.0069
49	50	HDR UNBIAS	1.9529	2.0064	0.0535
50	50	HDR UNBIAS	-0.2863	-0.1574	0.1289
51	100	HDR BIAS	0.4317	0.5188	0.0871
52	100	HDR BIAS	1.6207	1.705	0.0843
53	100	HDR BIAS	0.6157	0.6364	0.0207
54	100	HDR BIAS	1.3831	1.4165	0.0334
55	100	HDR BIAS	1.1188	1.1432	0.0244
56	100	HDR UNBIAS	1.059	1.0689	0.0099
57	100	HDR UNBIAS	1.2125	1.2031	-0.0094
58	100	HDR UNBIAS	-0.0126	0.0917	0.1043
59	100	HDR UNBIAS	0.0768	0.1191	0.0423
60	100	HDR UNBIAS	0.6416	0.7129	0.0713
91	0	CORRELATION	2.1779	2.1833	0.0054
92	0	CORRELATION	0.6615	0.6603	-0.0012
93	0	CORRELATION	0.2766	0.2822	0.0056
94	0	CORRELATION	1.1718	1.1685	-0.0033

Test Statistics (mV)

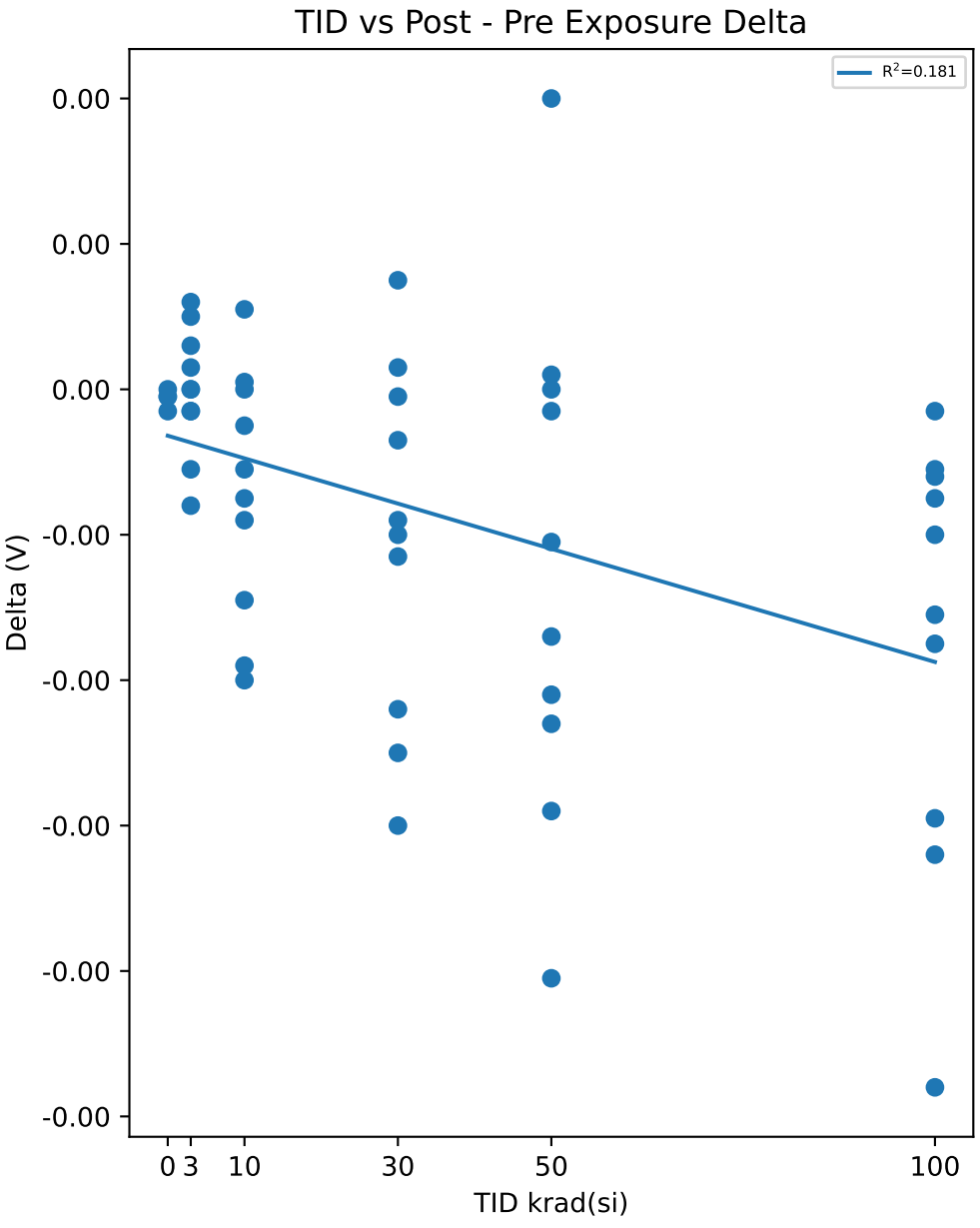
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2766	1.0719	2.1779	0.82344	0.2822	1.0736	2.1833	0.82413	-0.0033	0.001625	0.0056	0.0045566
3	-0.0956	0.78938	1.6272	0.673	-0.1003	0.78726	1.6206	0.67157	-0.0227	-0.00212	0.0235	0.013032
10	0.324	1.3033	2.6073	0.68285	0.3209	1.3103	2.5698	0.67762	-0.0375	0.00703	0.0537	0.025441
30	-0.8638	0.45609	1.575	0.75525	-0.8493	0.46203	1.5582	0.76009	-0.0343	0.00594	0.0454	0.028293
50	-0.2863	1.3941	2.1505	0.71392	-0.1574	1.4292	2.2473	0.71246	-0.0784	0.03504	0.1344	0.065627
100	-0.0126	0.81473	1.6207	0.55058	0.0917	0.86156	1.705	0.53671	-0.0094	0.04683	0.1043	0.037771

Device Test: 19.28 VOLTAGE|VREF//14/14/0/0/5/500kHz//@VREF_25C

TID vs Result Stats



TID vs Post - Pre Exposure Delta



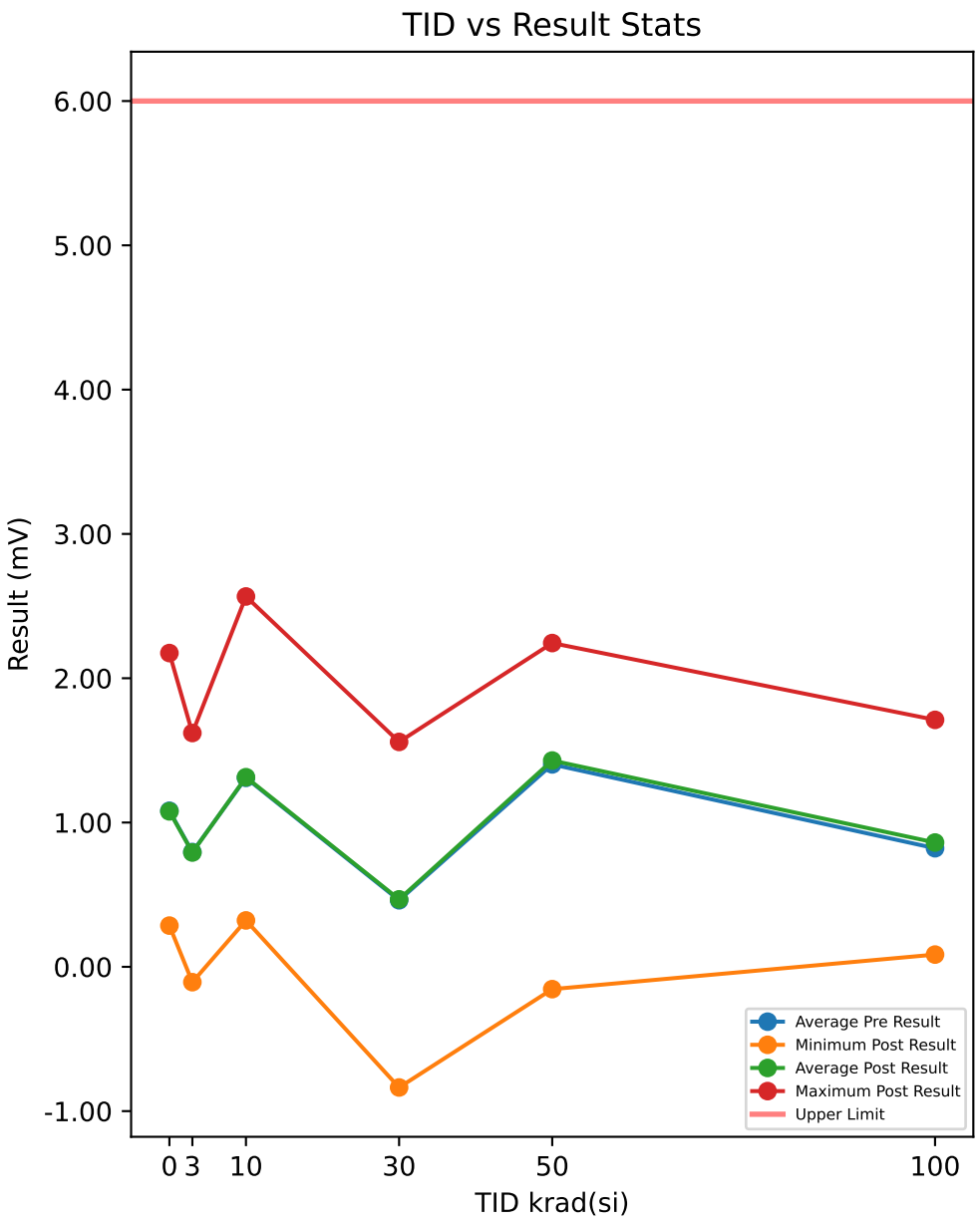
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

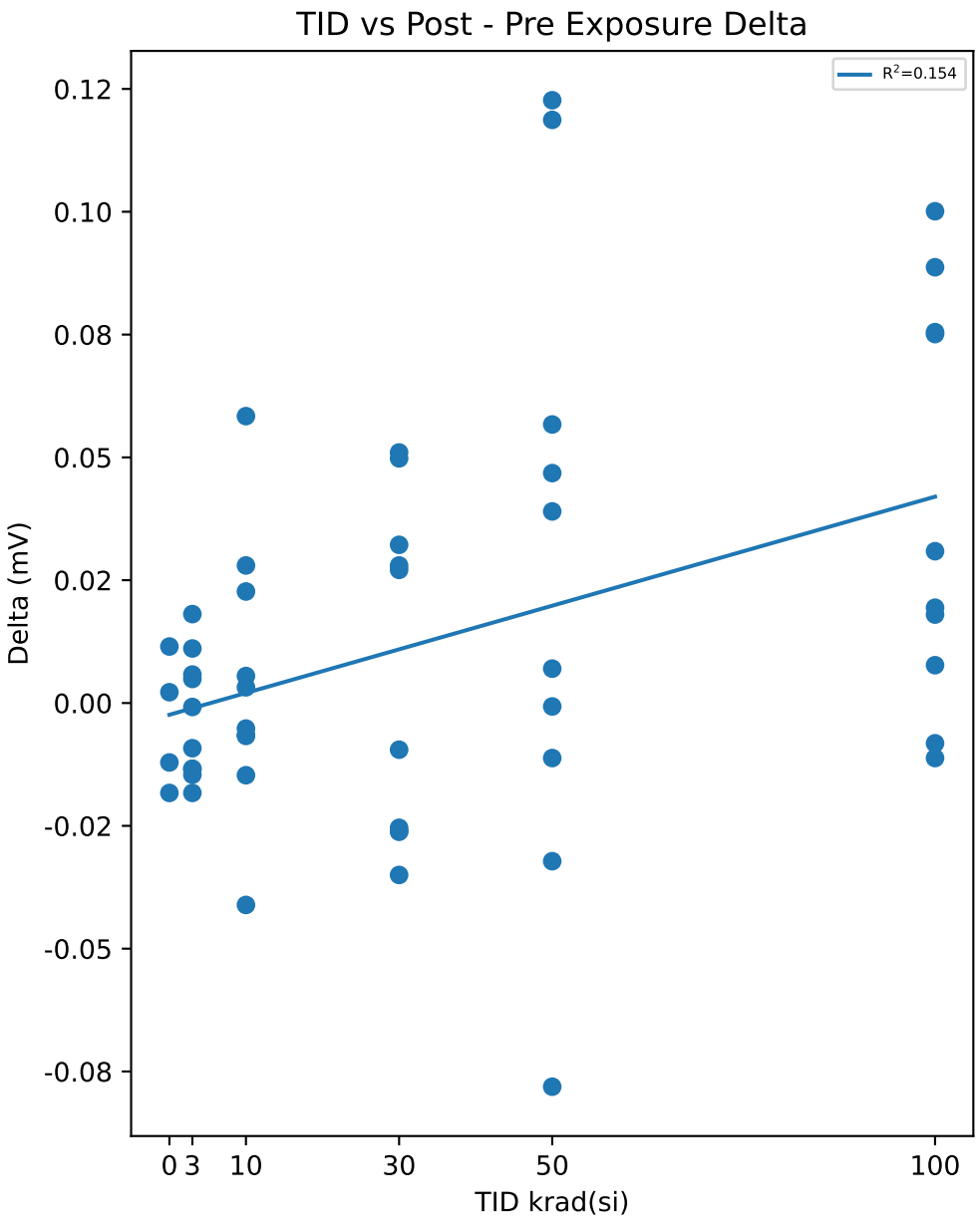
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60001	0.59998	-3e-05
2	3	HDR BIAS	0.60048	0.60054	6e-05
3	3	HDR BIAS	0.59994	0.60004	0.0001
4	3	HDR BIAS	0.6004	0.60052	0.00012
5	3	HDR BIAS	0.59975	0.59964	-0.00011
6	3	HDR UNBIAS	0.59985	0.59985	0
7	3	HDR UNBIAS	0.60017	0.60001	-0.00016
8	3	HDR UNBIAS	0.60033	0.6003	-3e-05
9	3	HDR UNBIAS	0.5999	0.5999	0
10	3	HDR UNBIAS	0.59985	0.59988	3e-05
11	10	HDR BIAS	0.60044	0.60055	0.00011
12	10	HDR BIAS	0.60007	0.59969	-0.00038
13	10	HDR BIAS	0.59994	0.59995	1e-05
14	10	HDR BIAS	0.60036	0.60025	-0.00011
15	10	HDR BIAS	0.60019	0.60014	-5e-05
16	10	HDR UNBIAS	0.60025	0.59996	-0.00029
17	10	HDR UNBIAS	0.60013	0.59973	-0.0004
18	10	HDR UNBIAS	0.60009	0.59994	-0.00015
19	10	HDR UNBIAS	0.60036	0.60036	0
20	10	HDR UNBIAS	0.59989	0.59971	-0.00018
31	30	HDR BIAS	0.60026	0.60025	-1e-05
32	30	HDR BIAS	0.60023	0.59963	-0.0006
33	30	HDR BIAS	0.60029	0.60022	-7e-05
34	30	HDR BIAS	0.60047	0.60027	-0.0002
35	30	HDR BIAS	0.59997	0.59974	-0.00023
36	30	HDR UNBIAS	0.59991	0.60006	0.00015
37	30	HDR UNBIAS	0.59995	0.59951	-0.00044
38	30	HDR UNBIAS	0.60008	0.60011	3e-05
39	30	HDR UNBIAS	0.59998	0.59948	-0.0005
40	30	HDR UNBIAS	0.60005	0.59987	-0.00018
41	50	HDR BIAS	0.60013	0.60053	0.0004
42	50	HDR BIAS	0.60009	0.59967	-0.00042
43	50	HDR BIAS	0.60006	0.5996	-0.00046
44	50	HDR BIAS	0.59992	0.59934	-0.00058
45	50	HDR BIAS	0.59976	0.59955	-0.00021
46	50	HDR UNBIAS	0.60049	0.60015	-0.00034
47	50	HDR UNBIAS	0.60024	0.60021	-3e-05
48	50	HDR UNBIAS	0.59991	0.5991	-0.00081
49	50	HDR UNBIAS	0.60043	0.60045	2e-05
50	50	HDR UNBIAS	0.59986	0.59986	0
51	100	HDR BIAS	0.59988	0.59892	-0.00096
52	100	HDR BIAS	0.59976	0.59964	-0.00012
53	100	HDR BIAS	0.60052	0.59993	-0.00059
54	100	HDR BIAS	0.6001	0.59946	-0.00064
55	100	HDR BIAS	0.60026	0.59995	-0.00031
56	100	HDR UNBIAS	0.5998	0.59977	-3e-05
57	100	HDR UNBIAS	0.60025	0.60005	-0.0002
58	100	HDR UNBIAS	0.59983	0.59948	-0.00035
59	100	HDR UNBIAS	0.60044	0.60029	-0.00015
60	100	HDR UNBIAS	0.60057	0.60046	-0.00011
91	0	CORRELATION	0.60036	0.60033	-3e-05
92	0	CORRELATION	0.60025	0.60024	-1e-05
93	0	CORRELATION	0.59985	0.59985	0
94	0	CORRELATION	0.6001	0.60009	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59985	0.60014	0.60036	0.00022076	0.59985	0.60013	0.60033	0.00020982	-3e-05	-1.25e-05	0	1.2583e-05
3	0.59975	0.60007	0.60048	0.00025888	0.59964	0.60007	0.60054	0.00029572	-0.00016	-2e-06	0.00012	8.7152e-05
10	0.59989	0.60017	0.60044	0.00018293	0.59969	0.60003	0.60055	0.00029196	-0.0004	-0.000144	0.00011	0.00017089
30	0.59991	0.60012	0.60047	0.000184	0.59948	0.59991	0.60027	0.00030866	-0.0006	-0.000205	0.00015	0.00024428
50	0.59976	0.60009	0.60049	0.00024122	0.5991	0.59985	0.60053	0.0004772	-0.00081	-0.000243	0.0004	0.00035135
100	0.59976	0.60014	0.60057	0.00031111	0.59892	0.59979	0.60046	0.00044675	-0.00096	-0.000346	-3e-05	0.00029639

Device Test: 19.30 VOLTAGE|OFFSET//14/14/0/0/5/500kHz//@EA_OS





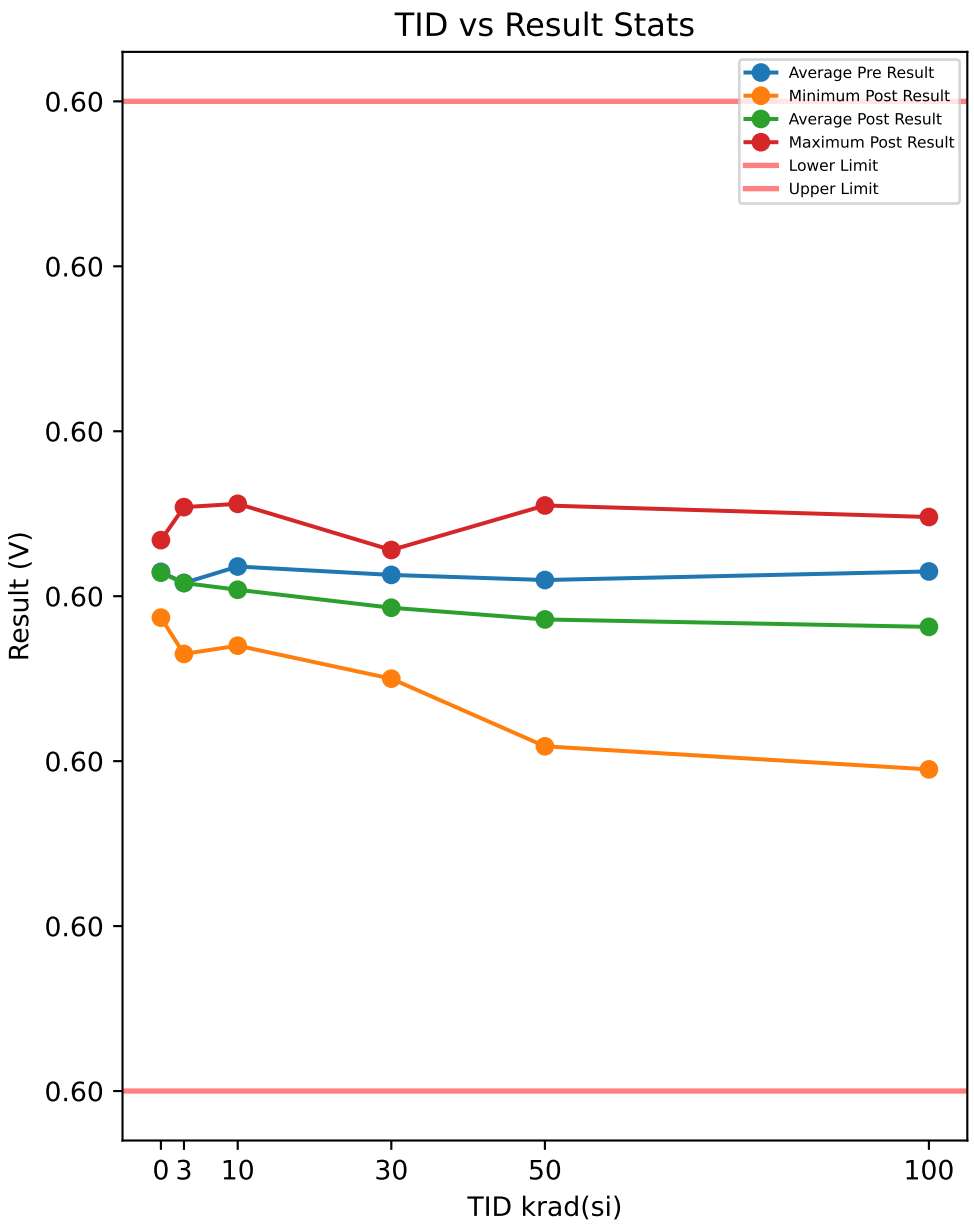
Test Results (Upper Limit = 6.0 (mV))

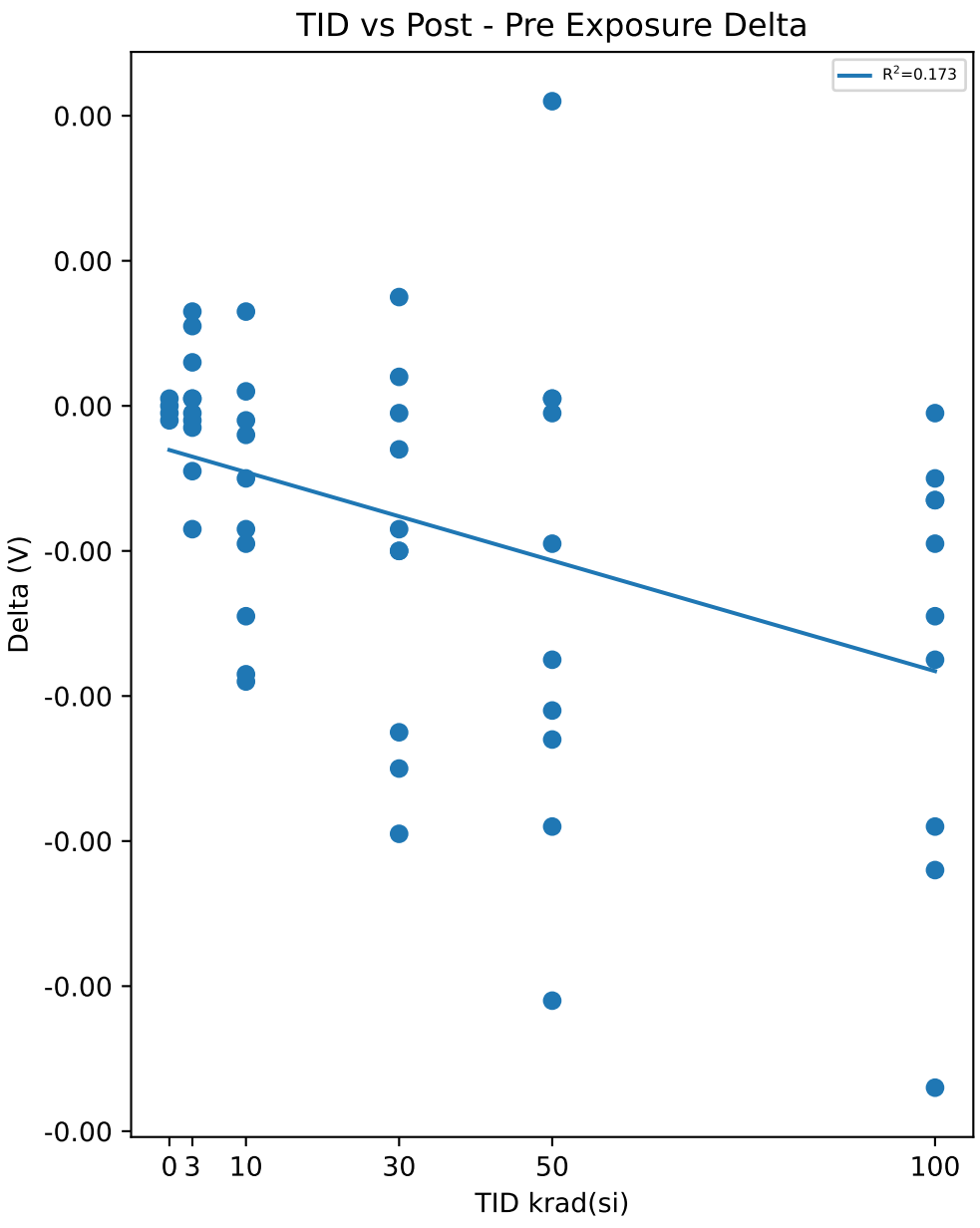
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.2483	0.2475	-0.0008
2	3	HDR BIAS	1.4138	1.4249	0.0111
3	3	HDR BIAS	1.3269	1.3086	-0.0183
4	3	HDR BIAS	0.3679	0.3533	-0.0146
5	3	HDR BIAS	1.6338	1.6204	-0.0134
6	3	HDR UNBIAS	1.5448	1.5497	0.0049
7	3	HDR UNBIAS	-0.0929	-0.1063	-0.0134
8	3	HDR UNBIAS	0.2272	0.233	0.0058
9	3	HDR UNBIAS	1.1623	1.1531	-0.0092
10	3	HDR UNBIAS	0.1215	0.1396	0.0181
11	10	HDR BIAS	1.1648	1.1928	0.028
12	10	HDR BIAS	2.6077	2.5666	-0.0411
13	10	HDR BIAS	1.5844	1.6428	0.0584
14	10	HDR BIAS	0.9899	0.9954	0.0055
15	10	HDR BIAS	0.4584	0.4517	-0.0067
16	10	HDR UNBIAS	2.0302	2.0529	0.0227
17	10	HDR UNBIAS	1.3304	1.3336	0.0032
18	10	HDR UNBIAS	1.4963	1.4816	-0.0147
19	10	HDR UNBIAS	1.1071	1.1019	-0.0052
20	10	HDR UNBIAS	0.3281	0.3216	-0.0065
31	30	HDR BIAS	-0.0723	-0.0443	0.028
32	30	HDR BIAS	0.8874	0.9196	0.0322
33	30	HDR BIAS	0.1454	0.1104	-0.035
34	30	HDR BIAS	0.9365	0.9875	0.051
35	30	HDR BIAS	1.0791	1.0696	-0.0095
36	30	HDR UNBIAS	1.5847	1.5586	-0.0261
37	30	HDR UNBIAS	0.5703	0.5441	-0.0262
38	30	HDR UNBIAS	-0.8632	-0.8361	0.0271
39	30	HDR UNBIAS	-0.4653	-0.4907	-0.0254
40	30	HDR UNBIAS	0.8084	0.8582	0.0498
41	50	HDR BIAS	2.1251	2.2438	0.1187
42	50	HDR BIAS	1.515	1.4828	-0.0322
43	50	HDR BIAS	2.1622	2.1615	-0.0007
44	50	HDR BIAS	1.4229	1.4796	0.0567
45	50	HDR BIAS	1.2978	1.3048	0.007
46	50	HDR UNBIAS	0.8405	0.7624	-0.0781
47	50	HDR UNBIAS	1.5835	1.6225	0.039
48	50	HDR UNBIAS	1.3999	1.3887	-0.0112
49	50	HDR UNBIAS	1.9592	2.006	0.0468
50	50	HDR UNBIAS	-0.2773	-0.1546	0.1227
51	100	HDR BIAS	0.4441	0.5192	0.0751
52	100	HDR BIAS	1.6228	1.7115	0.0887
53	100	HDR BIAS	0.629	0.6367	0.0077
54	100	HDR BIAS	1.3824	1.4004	0.018
55	100	HDR BIAS	1.1364	1.1558	0.0194
56	100	HDR UNBIAS	1.0822	1.071	-0.0112
57	100	HDR UNBIAS	1.2078	1.1996	-0.0082
58	100	HDR UNBIAS	-0.0152	0.0849	0.1001
59	100	HDR UNBIAS	0.0815	0.1124	0.0309
60	100	HDR UNBIAS	0.6469	0.7224	0.0755
91	0	CORRELATION	2.1928	2.1745	-0.0183
92	0	CORRELATION	0.6762	0.6641	-0.0121
93	0	CORRELATION	0.2835	0.2857	0.0022
94	0	CORRELATION	1.1737	1.1852	0.0115

Test Statistics (mV)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2835	1.0816	2.1928	0.82554	0.2857	1.0774	2.1745	0.81912	-0.0183	-0.004175	0.0115	0.013524
3	-0.0929	0.79536	1.6338	0.67595	-0.1063	0.79238	1.6204	0.6743	-0.0183	-0.00298	0.0181	0.012526
10	0.3281	1.3097	2.6077	0.68046	0.3216	1.3141	2.5666	0.67833	-0.0411	0.00436	0.0584	0.027038
30	-0.8632	0.4611	1.5847	0.75872	-0.8361	0.46769	1.5586	0.75963	-0.035	0.00659	0.051	0.034205
50	-0.2773	1.4029	2.1622	0.7152	-0.1546	1.4297	2.2438	0.71067	-0.0781	0.02687	0.1227	0.063388
100	-0.0152	0.82179	1.6228	0.55083	0.0849	0.86139	1.7115	0.53842	-0.0112	0.0396	0.1001	0.041437

Device Test: 19.31 VOLTAGE|VREF//12/12/0/1000/5/100kHz//@VREF_25C





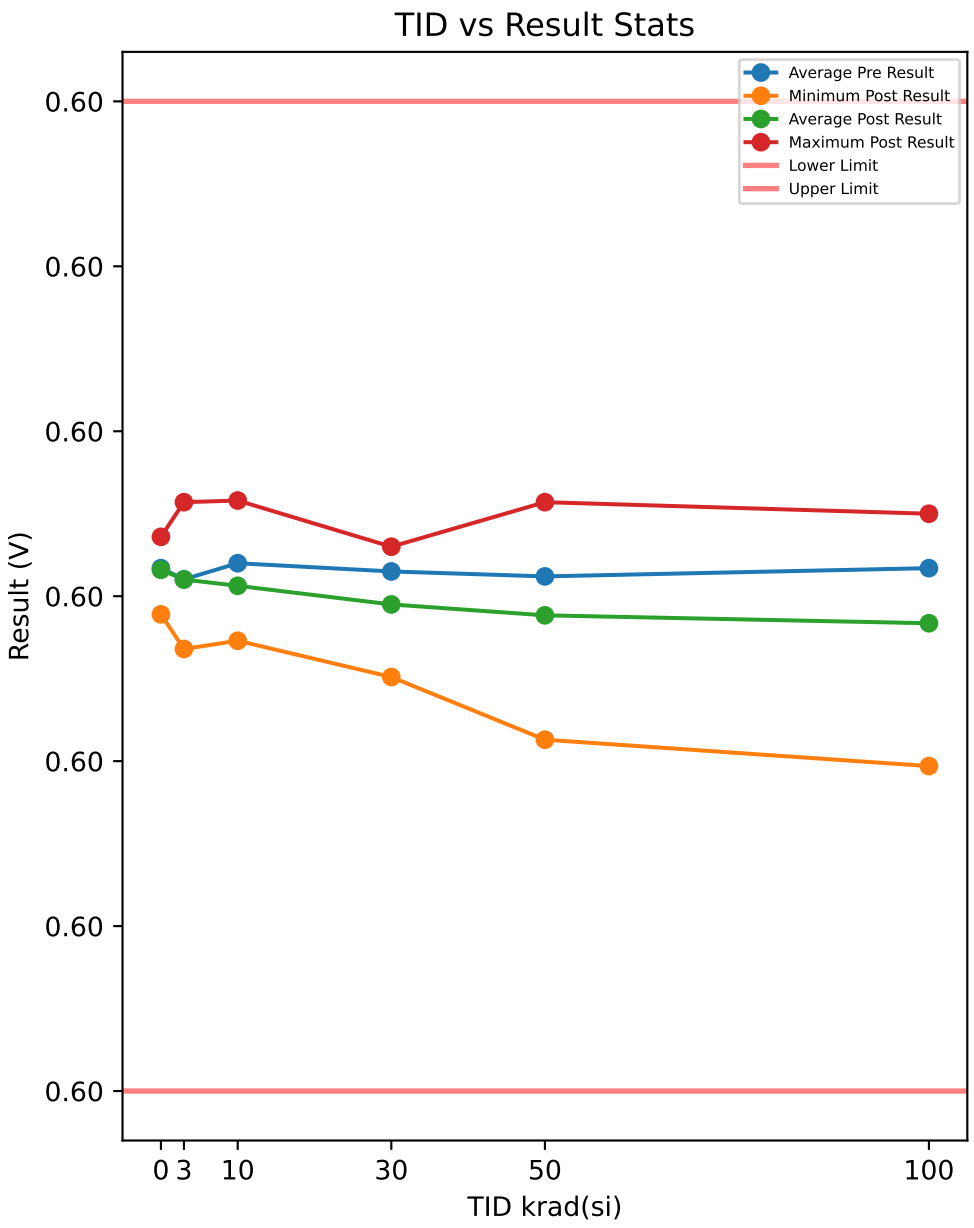
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

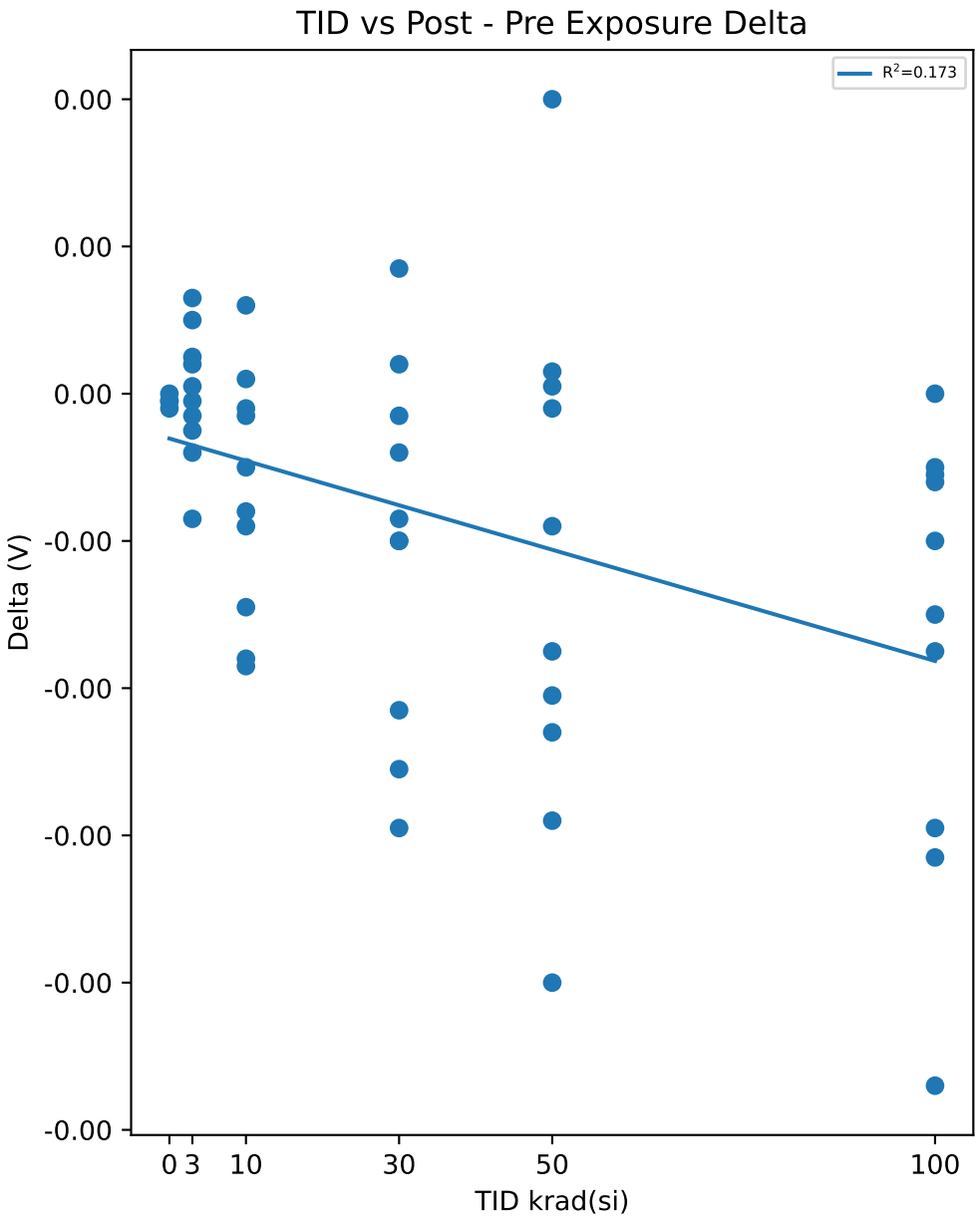
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60004	0.60002	-2e-05
2	3	HDR BIAS	0.60048	0.60054	6e-05
3	3	HDR BIAS	0.59994	0.60005	0.00011
4	3	HDR BIAS	0.60041	0.60054	0.00013
5	3	HDR BIAS	0.59974	0.59965	-9e-05
6	3	HDR UNBIAS	0.59987	0.59986	-1e-05
7	3	HDR UNBIAS	0.60019	0.60002	-0.00017
8	3	HDR UNBIAS	0.60034	0.60031	-3e-05
9	3	HDR UNBIAS	0.59991	0.59992	1e-05
10	3	HDR UNBIAS	0.59988	0.59989	1e-05
11	10	HDR BIAS	0.60043	0.60056	0.00013
12	10	HDR BIAS	0.60007	0.5997	-0.00037
13	10	HDR BIAS	0.59994	0.59996	2e-05
14	10	HDR BIAS	0.60036	0.60026	-0.0001
15	10	HDR BIAS	0.6002	0.60016	-4e-05
16	10	HDR UNBIAS	0.60026	0.59997	-0.00029
17	10	HDR UNBIAS	0.60013	0.59975	-0.00038
18	10	HDR UNBIAS	0.60011	0.59994	-0.00017
19	10	HDR UNBIAS	0.60039	0.60037	-2e-05
20	10	HDR UNBIAS	0.59991	0.59972	-0.00019
31	30	HDR BIAS	0.60028	0.60027	-1e-05
32	30	HDR BIAS	0.60024	0.59965	-0.00059
33	30	HDR BIAS	0.6003	0.60024	-6e-05
34	30	HDR BIAS	0.60048	0.60028	-0.0002
35	30	HDR BIAS	0.59996	0.59976	-0.0002
36	30	HDR UNBIAS	0.59992	0.60007	0.00015
37	30	HDR UNBIAS	0.59997	0.59952	-0.00045
38	30	HDR UNBIAS	0.60008	0.60012	4e-05
39	30	HDR UNBIAS	0.6	0.5995	-0.0005
40	30	HDR UNBIAS	0.60006	0.59989	-0.00017
41	50	HDR BIAS	0.60013	0.60055	0.00042
42	50	HDR BIAS	0.6001	0.59968	-0.00042
43	50	HDR BIAS	0.60008	0.59962	-0.00046
44	50	HDR BIAS	0.59993	0.59935	-0.00058
45	50	HDR BIAS	0.59976	0.59957	-0.00019
46	50	HDR UNBIAS	0.60051	0.60016	-0.00035
47	50	HDR UNBIAS	0.60024	0.60023	-1e-05
48	50	HDR UNBIAS	0.59991	0.59909	-0.00082
49	50	HDR UNBIAS	0.60045	0.60046	1e-05
50	50	HDR UNBIAS	0.59987	0.59988	1e-05
51	100	HDR BIAS	0.59989	0.59895	-0.00094
52	100	HDR BIAS	0.59978	0.59965	-0.00013
53	100	HDR BIAS	0.60053	0.59995	-0.00058
54	100	HDR BIAS	0.60011	0.59947	-0.00064
55	100	HDR BIAS	0.60026	0.59997	-0.00029
56	100	HDR UNBIAS	0.59979	0.59978	-1e-05
57	100	HDR UNBIAS	0.60026	0.60007	-0.00019
58	100	HDR UNBIAS	0.59985	0.5995	-0.00035
59	100	HDR UNBIAS	0.60045	0.60032	-0.00013
60	100	HDR UNBIAS	0.60058	0.60048	-0.0001
91	0	CORRELATION	0.60035	0.60034	-1e-05
92	0	CORRELATION	0.60027	0.60025	-2e-05
93	0	CORRELATION	0.59987	0.59987	0
94	0	CORRELATION	0.6001	0.60011	1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59987	0.60015	0.60035	0.00021235	0.59987	0.60014	0.60034	0.00020484	-2e-05	-5e-06	1e-05	1.291e-05
3	0.59974	0.60008	0.60048	0.00025785	0.59965	0.60008	0.60054	0.00029424	-0.00017	-2.2204e-17	0.00013	8.8944e-05
10	0.59991	0.60018	0.60043	0.00018129	0.5997	0.60004	0.60056	0.00029164	-0.00038	-0.000141	0.00013	0.00017026
30	0.59992	0.60013	0.60048	0.00018526	0.5995	0.59993	0.60028	0.00030764	-0.00059	-0.000199	0.00015	0.00024524
50	0.59976	0.6001	0.60051	0.00024607	0.59909	0.59986	0.60055	0.00048195	-0.00082	-0.000239	0.00042	0.00035915
100	0.59978	0.60015	0.60058	0.00031077	0.59895	0.59981	0.60048	0.00044714	-0.00094	-0.000336	-1e-05	0.00029576

Device Test: 19.33 VOLTAGE|VREF//14/14/0/1000/5/100kHz//@VREF_25C





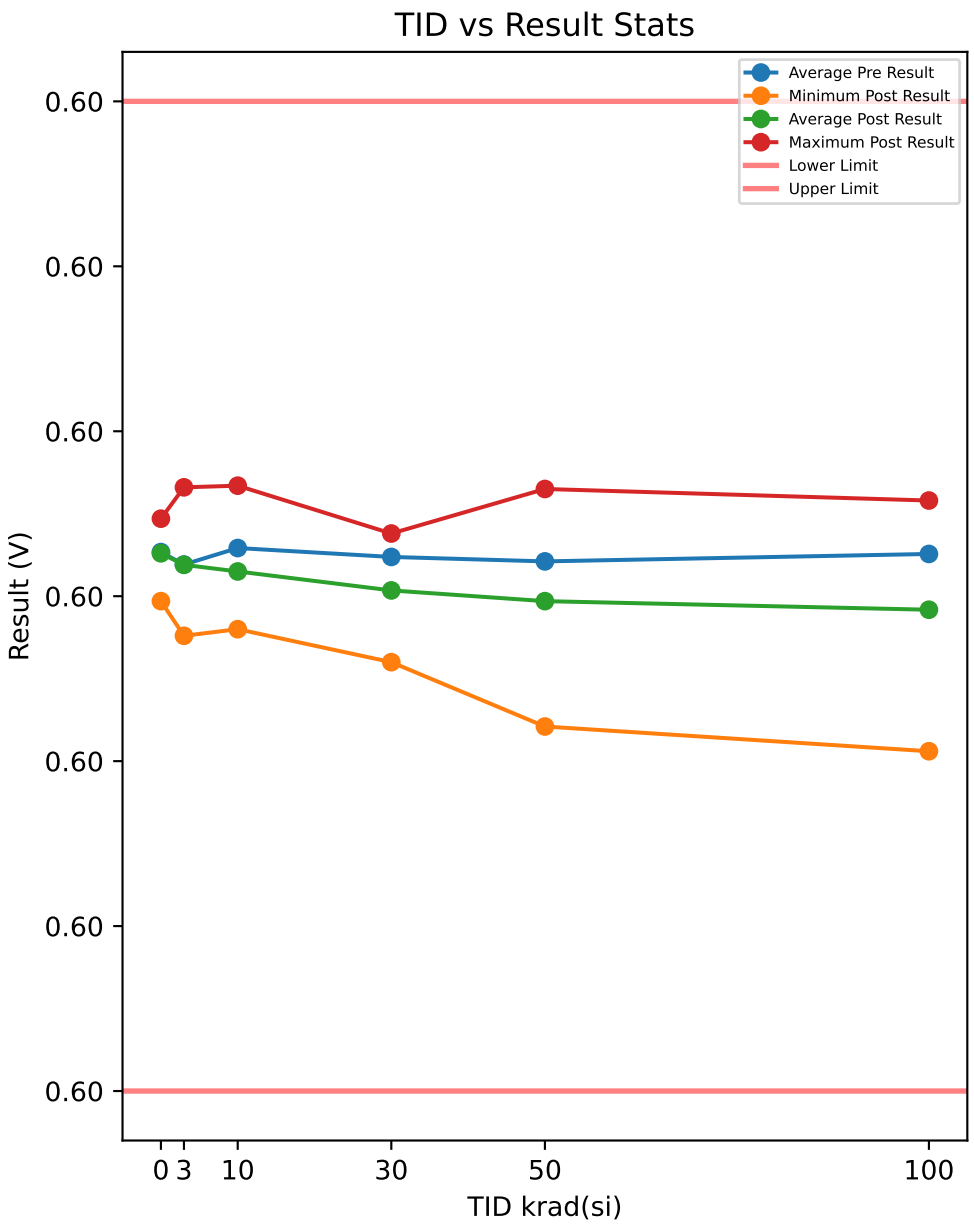
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

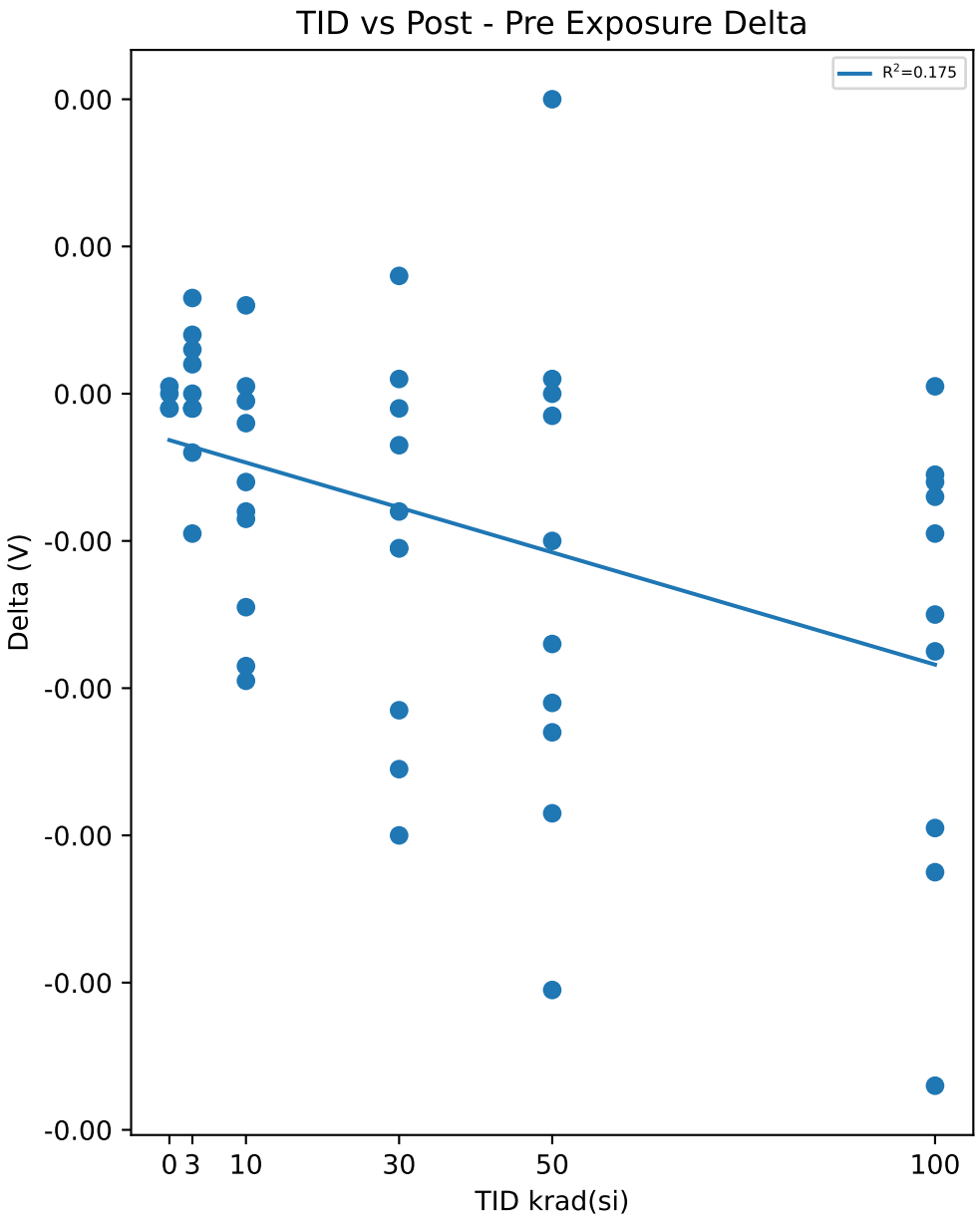
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60006	0.60003	-3e-05
2	3	HDR BIAS	0.60051	0.60056	5e-05
3	3	HDR BIAS	0.59997	0.60007	0.0001
4	3	HDR BIAS	0.60044	0.60057	0.00013
5	3	HDR BIAS	0.59976	0.59968	-8e-05
6	3	HDR UNBIAS	0.59989	0.59988	-1e-05
7	3	HDR UNBIAS	0.60021	0.60004	-0.00017
8	3	HDR UNBIAS	0.60037	0.60032	-5e-05
9	3	HDR UNBIAS	0.59993	0.59994	1e-05
10	3	HDR UNBIAS	0.59988	0.59992	4e-05
11	10	HDR BIAS	0.60046	0.60058	0.00012
12	10	HDR BIAS	0.60009	0.59973	-0.00036
13	10	HDR BIAS	0.59997	0.59999	2e-05
14	10	HDR BIAS	0.60038	0.60028	-0.0001
15	10	HDR BIAS	0.60021	0.60018	-3e-05
16	10	HDR UNBIAS	0.60028	0.59999	-0.00029
17	10	HDR UNBIAS	0.60015	0.59978	-0.00037
18	10	HDR UNBIAS	0.60012	0.59996	-0.00016
19	10	HDR UNBIAS	0.60041	0.60039	-2e-05
20	10	HDR UNBIAS	0.59993	0.59975	-0.00018
31	30	HDR BIAS	0.60031	0.60028	-3e-05
32	30	HDR BIAS	0.60025	0.59966	-0.00059
33	30	HDR BIAS	0.60034	0.60026	-8e-05
34	30	HDR BIAS	0.6005	0.6003	-0.0002
35	30	HDR BIAS	0.59998	0.59978	-0.0002
36	30	HDR UNBIAS	0.59993	0.6001	0.00017
37	30	HDR UNBIAS	0.59998	0.59955	-0.00043
38	30	HDR UNBIAS	0.6001	0.60014	4e-05
39	30	HDR UNBIAS	0.60002	0.59951	-0.00051
40	30	HDR UNBIAS	0.60009	0.59992	-0.00017
41	50	HDR BIAS	0.60017	0.60057	0.0004
42	50	HDR BIAS	0.60011	0.5997	-0.00041
43	50	HDR BIAS	0.6001	0.59964	-0.00046
44	50	HDR BIAS	0.59995	0.59937	-0.00058
45	50	HDR BIAS	0.59979	0.59961	-0.00018
46	50	HDR UNBIAS	0.60053	0.60018	-0.00035
47	50	HDR UNBIAS	0.60027	0.60025	-2e-05
48	50	HDR UNBIAS	0.59993	0.59913	-0.0008
49	50	HDR UNBIAS	0.60046	0.60049	3e-05
50	50	HDR UNBIAS	0.59989	0.5999	1e-05
51	100	HDR BIAS	0.59991	0.59897	-0.00094
52	100	HDR BIAS	0.5998	0.59968	-0.00012
53	100	HDR BIAS	0.60055	0.59996	-0.00059
54	100	HDR BIAS	0.60012	0.59949	-0.00063
55	100	HDR BIAS	0.60028	0.59998	-0.0003
56	100	HDR UNBIAS	0.59981	0.59981	0
57	100	HDR UNBIAS	0.60029	0.60009	-0.0002
58	100	HDR UNBIAS	0.59988	0.59953	-0.00035
59	100	HDR UNBIAS	0.60046	0.60035	-0.00011
60	100	HDR UNBIAS	0.6006	0.6005	-0.0001
91	0	CORRELATION	0.60037	0.60036	-1e-05
92	0	CORRELATION	0.60029	0.60027	-2e-05
93	0	CORRELATION	0.59989	0.59989	0
94	0	CORRELATION	0.60013	0.60012	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59989	0.60017	0.60037	0.00021166	0.59989	0.60016	0.60036	0.00020543	-2e-05	-1e-05	0	8.165e-06
3	0.59976	0.6001	0.60051	0.00026335	0.59968	0.6001	0.60057	0.00029309	-0.00017	-1e-06	0.00013	8.8122e-05
10	0.59993	0.6002	0.60046	0.00018178	0.59973	0.60006	0.60058	0.00028775	-0.00037	-0.000137	0.00012	0.00016567
30	0.59993	0.60015	0.6005	0.00018956	0.59951	0.59995	0.6003	0.00030797	-0.00059	-0.0002	0.00017	0.0002449
50	0.59979	0.60012	0.60053	0.00024404	0.59913	0.59988	0.60057	0.00047852	-0.0008	-0.000236	0.0004	0.00035205
100	0.5998	0.60017	0.6006	0.00030923	0.59897	0.59984	0.6005	0.00044647	-0.00094	-0.000334	0	0.00029852

Device Test: 19.35 VOLTAGE|VREF//12/12/0/1000/5/500kHz//@VREF_25C





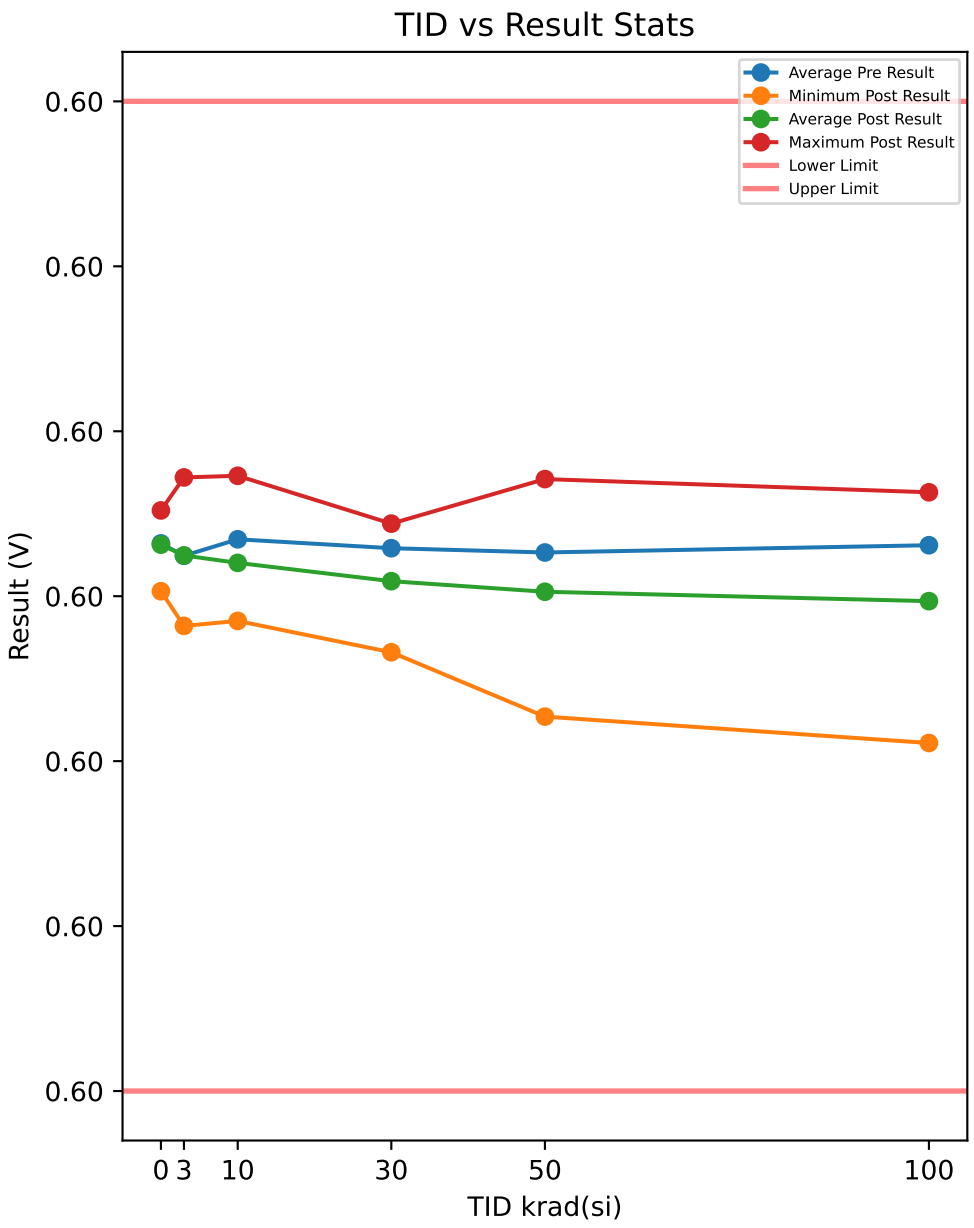
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

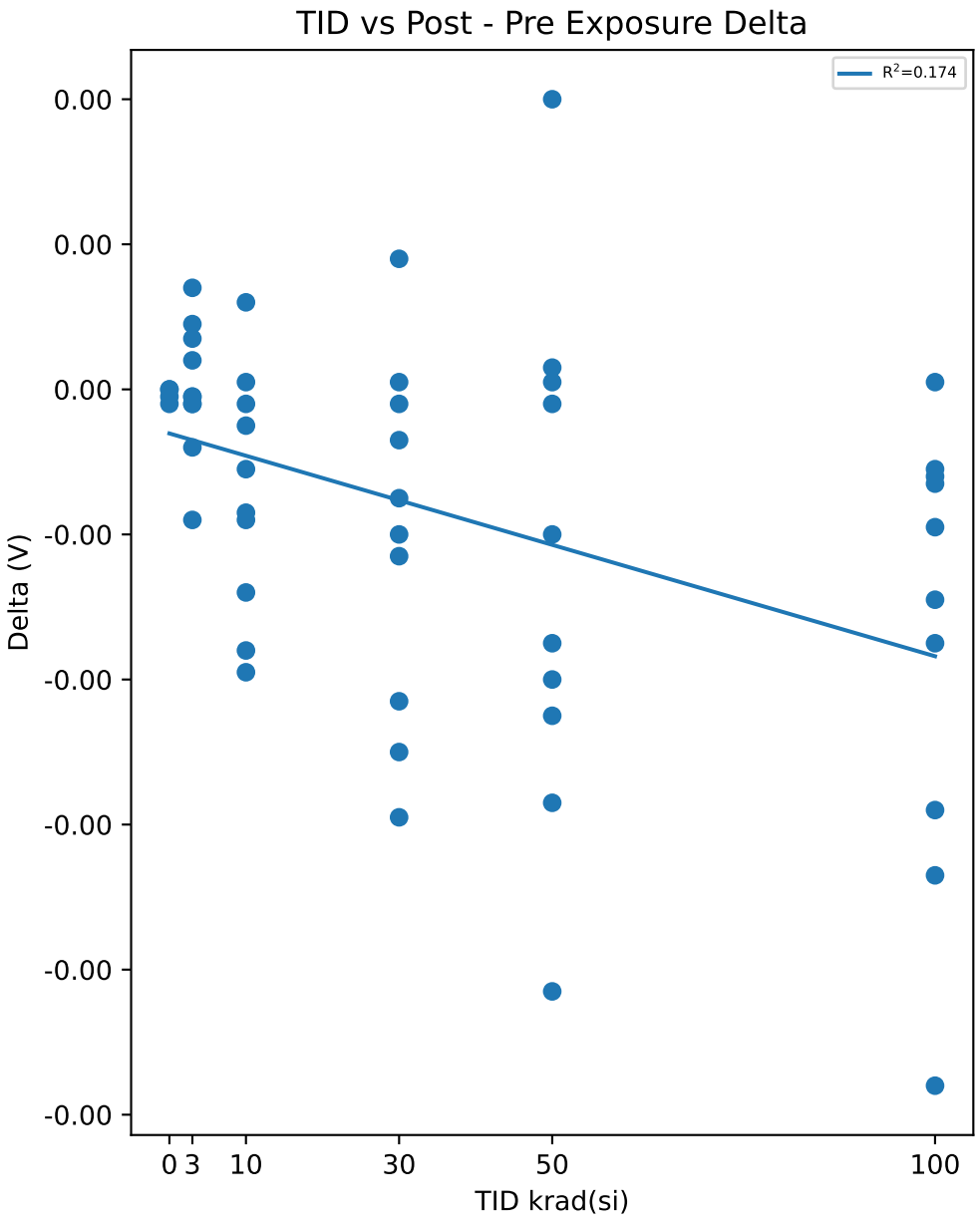
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60015	0.60013	-2e-05
2	3	HDR BIAS	0.6006	0.60066	6e-05
3	3	HDR BIAS	0.60007	0.60015	8e-05
4	3	HDR BIAS	0.60052	0.60065	0.00013
5	3	HDR BIAS	0.59984	0.59976	-8e-05
6	3	HDR UNBIAS	0.59999	0.59997	-2e-05
7	3	HDR UNBIAS	0.6003	0.60011	-0.00019
8	3	HDR UNBIAS	0.60045	0.60043	-2e-05
9	3	HDR UNBIAS	0.60003	0.60003	0
10	3	HDR UNBIAS	0.59997	0.60001	4e-05
11	10	HDR BIAS	0.60055	0.60067	0.00012
12	10	HDR BIAS	0.60017	0.5998	-0.00037
13	10	HDR BIAS	0.60007	0.60008	1e-05
14	10	HDR BIAS	0.60046	0.60034	-0.00012
15	10	HDR BIAS	0.60031	0.60027	-4e-05
16	10	HDR UNBIAS	0.60038	0.60009	-0.00029
17	10	HDR UNBIAS	0.60025	0.59986	-0.00039
18	10	HDR UNBIAS	0.60021	0.60005	-0.00016
19	10	HDR UNBIAS	0.60048	0.60047	-1e-05
20	10	HDR UNBIAS	0.60004	0.59987	-0.00017
31	30	HDR BIAS	0.60039	0.60037	-2e-05
32	30	HDR BIAS	0.60034	0.59974	-0.0006
33	30	HDR BIAS	0.60045	0.60038	-7e-05
34	30	HDR BIAS	0.60059	0.60038	-0.00021
35	30	HDR BIAS	0.60007	0.59986	-0.00021
36	30	HDR UNBIAS	0.60001	0.60017	0.00016
37	30	HDR UNBIAS	0.60006	0.59963	-0.00043
38	30	HDR UNBIAS	0.60021	0.60023	2e-05
39	30	HDR UNBIAS	0.60011	0.5996	-0.00051
40	30	HDR UNBIAS	0.60015	0.59999	-0.00016
41	50	HDR BIAS	0.60025	0.60065	0.0004
42	50	HDR BIAS	0.6002	0.59978	-0.00042
43	50	HDR BIAS	0.6002	0.59974	-0.00046
44	50	HDR BIAS	0.60005	0.59948	-0.00057
45	50	HDR BIAS	0.59988	0.59968	-0.0002
46	50	HDR UNBIAS	0.60061	0.60027	-0.00034
47	50	HDR UNBIAS	0.60037	0.60034	-3e-05
48	50	HDR UNBIAS	0.60002	0.59921	-0.00081
49	50	HDR UNBIAS	0.60055	0.60057	2e-05
50	50	HDR UNBIAS	0.59998	0.59998	0
51	100	HDR BIAS	0.6	0.59906	-0.00094
52	100	HDR BIAS	0.59989	0.59977	-0.00012
53	100	HDR BIAS	0.60063	0.60004	-0.00059
54	100	HDR BIAS	0.60022	0.59957	-0.00065
55	100	HDR BIAS	0.60037	0.60007	-0.0003
56	100	HDR UNBIAS	0.59989	0.5999	1e-05
57	100	HDR UNBIAS	0.60035	0.60016	-0.00019
58	100	HDR UNBIAS	0.59997	0.59962	-0.00035
59	100	HDR UNBIAS	0.60055	0.60041	-0.00014
60	100	HDR UNBIAS	0.60069	0.60058	-0.00011
91	0	CORRELATION	0.60047	0.60047	0
92	0	CORRELATION	0.6004	0.60038	-2e-05
93	0	CORRELATION	0.59999	0.59997	-2e-05
94	0	CORRELATION	0.60021	0.60022	1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59999	0.60027	0.60047	0.00021515	0.59997	0.60026	0.60047	0.00021924	-2e-05	-7.5e-06	1e-05	1.5e-05
3	0.59984	0.60019	0.6006	0.00026016	0.59976	0.60019	0.60066	0.00029684	-0.00019	-2e-06	0.00013	8.9542e-05
10	0.60004	0.60029	0.60055	0.0001746	0.5998	0.60015	0.60067	0.00028418	-0.00039	-0.000142	0.00012	0.00016884
30	0.60001	0.60024	0.60059	0.00019412	0.5996	0.60003	0.60038	0.0003126	-0.0006	-0.000203	0.00016	0.0002445
50	0.59988	0.60021	0.60061	0.00024187	0.59921	0.59997	0.60065	0.00047612	-0.00081	-0.000241	0.0004	0.00035041
100	0.59989	0.60026	0.60069	0.00030787	0.59906	0.59992	0.60058	0.00044035	-0.00094	-0.000338	1e-05	0.00029936

Device Test: 19.37 VOLTAGE|VREF//14/14/0/1000/5/500kHz//@VREF_25C





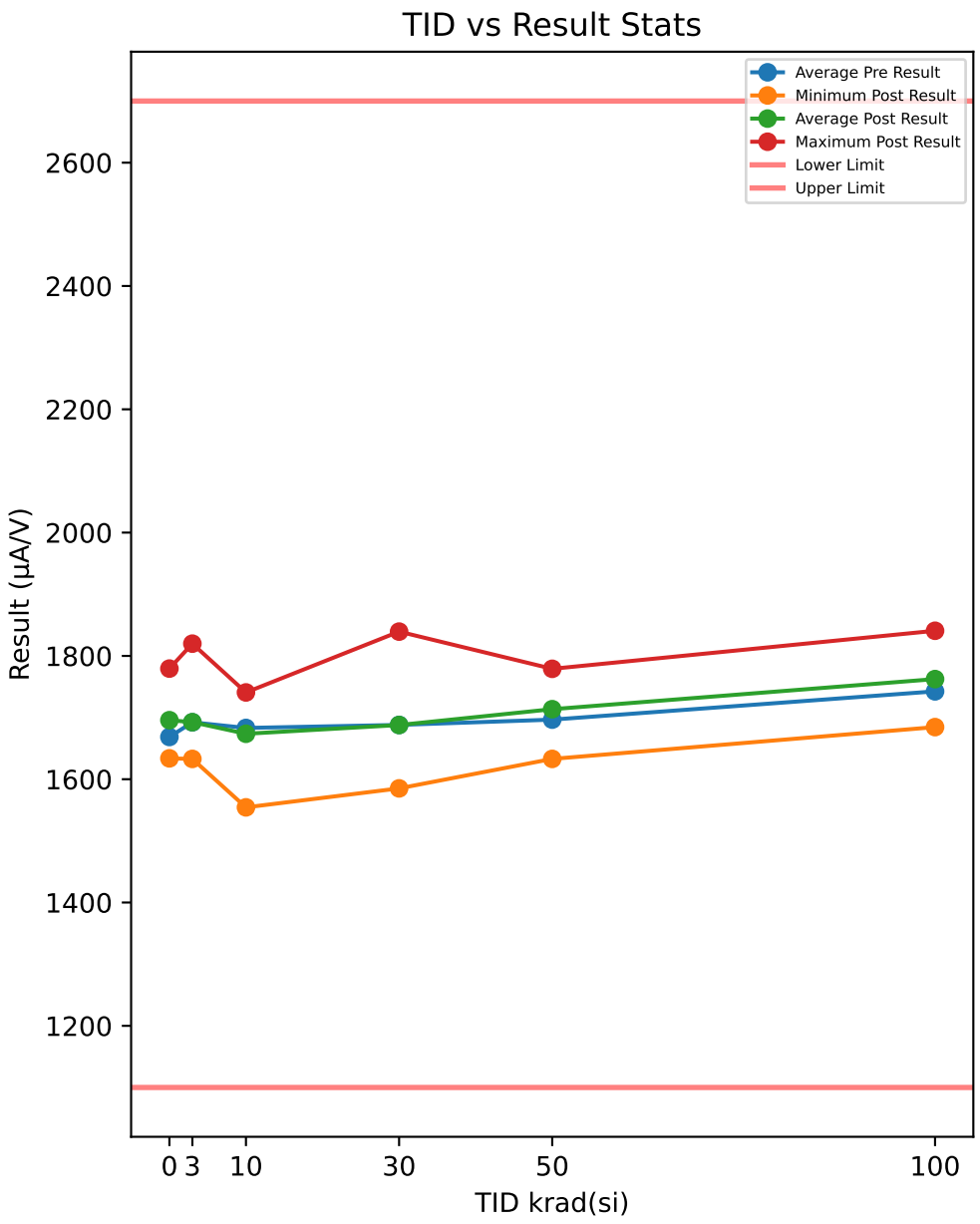
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

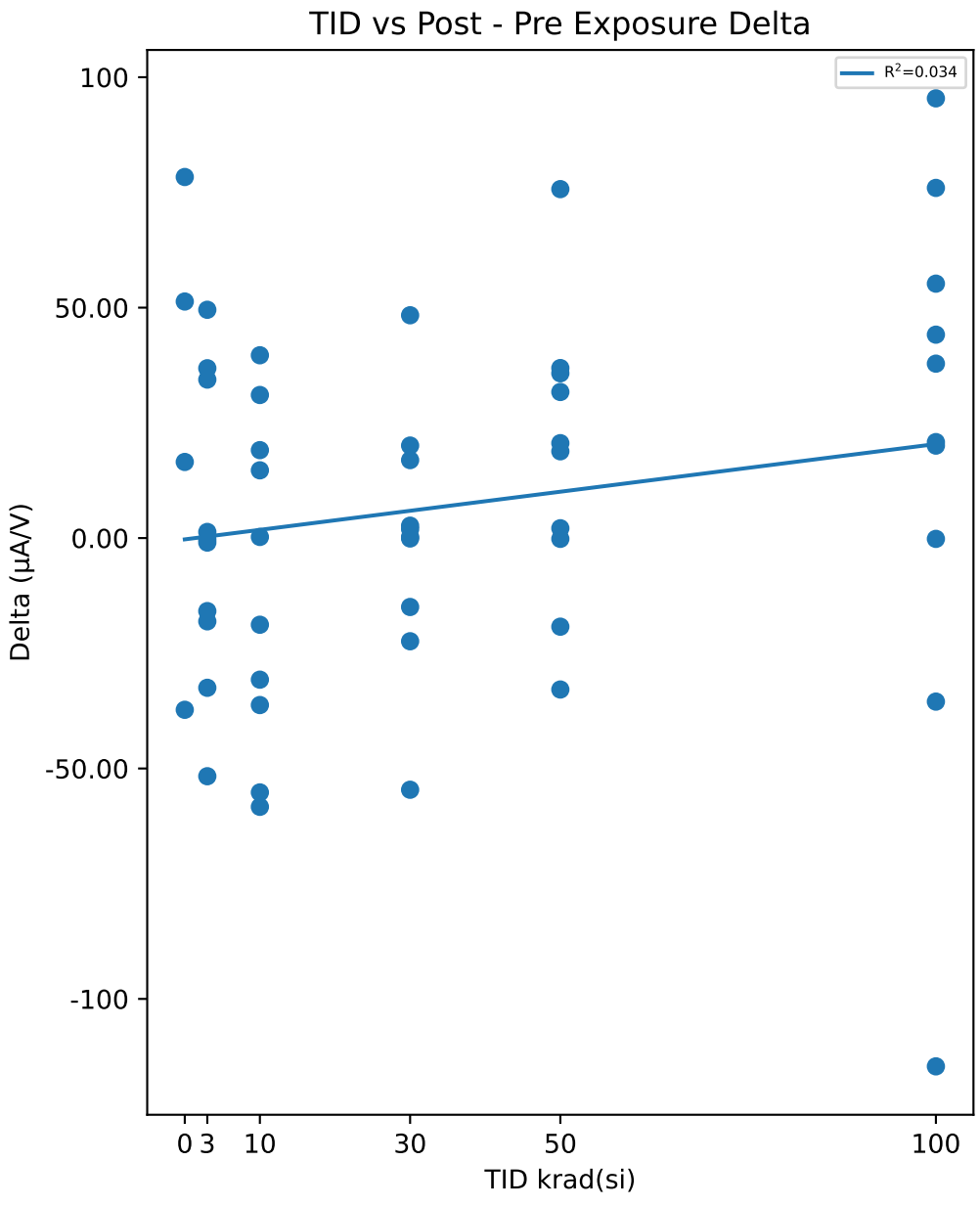
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60021	0.60019	-2e-05
2	3	HDR BIAS	0.60065	0.60072	7e-05
3	3	HDR BIAS	0.60012	0.60021	9e-05
4	3	HDR BIAS	0.60057	0.60071	0.00014
5	3	HDR BIAS	0.5999	0.59982	-8e-05
6	3	HDR UNBIAS	0.60005	0.60003	-2e-05
7	3	HDR UNBIAS	0.60033	0.60015	-0.00018
8	3	HDR UNBIAS	0.6005	0.60049	-1e-05
9	3	HDR UNBIAS	0.60009	0.60008	-1e-05
10	3	HDR UNBIAS	0.60003	0.60007	4e-05
11	10	HDR BIAS	0.60061	0.60073	0.00012
12	10	HDR BIAS	0.60021	0.59985	-0.00036
13	10	HDR BIAS	0.60013	0.60014	1e-05
14	10	HDR BIAS	0.60051	0.6004	-0.00011
15	10	HDR BIAS	0.60035	0.6003	-5e-05
16	10	HDR UNBIAS	0.60043	0.60015	-0.00028
17	10	HDR UNBIAS	0.6003	0.59991	-0.00039
18	10	HDR UNBIAS	0.60026	0.60009	-0.00017
19	10	HDR UNBIAS	0.60054	0.60052	-2e-05
20	10	HDR UNBIAS	0.60011	0.59993	-0.00018
31	30	HDR BIAS	0.60045	0.60043	-2e-05
32	30	HDR BIAS	0.60039	0.5998	-0.00059
33	30	HDR BIAS	0.60051	0.60044	-7e-05
34	30	HDR BIAS	0.60064	0.60044	-0.0002
35	30	HDR BIAS	0.60013	0.5999	-0.00023
36	30	HDR UNBIAS	0.60005	0.60023	0.00018
37	30	HDR UNBIAS	0.60011	0.59968	-0.00043
38	30	HDR UNBIAS	0.60028	0.60029	1e-05
39	30	HDR UNBIAS	0.60016	0.59966	-0.0005
40	30	HDR UNBIAS	0.60019	0.60004	-0.00015
41	50	HDR BIAS	0.60031	0.60071	0.0004
42	50	HDR BIAS	0.60024	0.59984	-0.0004
43	50	HDR BIAS	0.60024	0.59979	-0.00045
44	50	HDR BIAS	0.60011	0.59954	-0.00057
45	50	HDR BIAS	0.59994	0.59974	-0.0002
46	50	HDR UNBIAS	0.60066	0.60031	-0.00035
47	50	HDR UNBIAS	0.60043	0.60041	-2e-05
48	50	HDR UNBIAS	0.6001	0.59927	-0.00083
49	50	HDR UNBIAS	0.6006	0.60061	1e-05
50	50	HDR UNBIAS	0.60002	0.60005	3e-05
51	100	HDR BIAS	0.60007	0.59911	-0.00096
52	100	HDR BIAS	0.59994	0.59982	-0.00012
53	100	HDR BIAS	0.60068	0.6001	-0.00058
54	100	HDR BIAS	0.60027	0.5996	-0.00067
55	100	HDR BIAS	0.60042	0.60013	-0.00029
56	100	HDR UNBIAS	0.59994	0.59995	1e-05
57	100	HDR UNBIAS	0.60041	0.60022	-0.00019
58	100	HDR UNBIAS	0.60003	0.59968	-0.00035
59	100	HDR UNBIAS	0.60059	0.60046	-0.00013
60	100	HDR UNBIAS	0.60074	0.60063	-0.00011
91	0	CORRELATION	0.60052	0.60052	0
92	0	CORRELATION	0.60046	0.60044	-2e-05
93	0	CORRELATION	0.60004	0.60003	-1e-05
94	0	CORRELATION	0.60026	0.60026	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.60004	0.60032	0.60052	0.00021726	0.60003	0.60031	0.60052	0.00021747	-2e-05	-7.5e-06	0	9.5743e-06
3	0.5999	0.60024	0.60065	0.00025518	0.59982	0.60025	0.60072	0.00029811	-0.00018	2e-06	0.00014	9.0652e-05
10	0.60011	0.60035	0.60061	0.00017373	0.59985	0.6002	0.60073	0.00028499	-0.00039	-0.000143	0.00012	0.00016547
30	0.60005	0.60029	0.60064	0.00019695	0.59966	0.60009	0.60044	0.0003155	-0.00059	-0.0002	0.00018	0.00024409
50	0.59994	0.60027	0.60066	0.00023936	0.59927	0.60003	0.60071	0.00047345	-0.00083	-0.000238	0.0004	0.00035493
100	0.59994	0.60031	0.60074	0.00030436	0.59911	0.59997	0.60063	0.00044274	-0.00096	-0.000339	1e-05	0.00030621

Device Test: 19.39 LEVEL|TRANSCONDUCTANCE//8/8/0/0/5/500kHz//@EA_GM





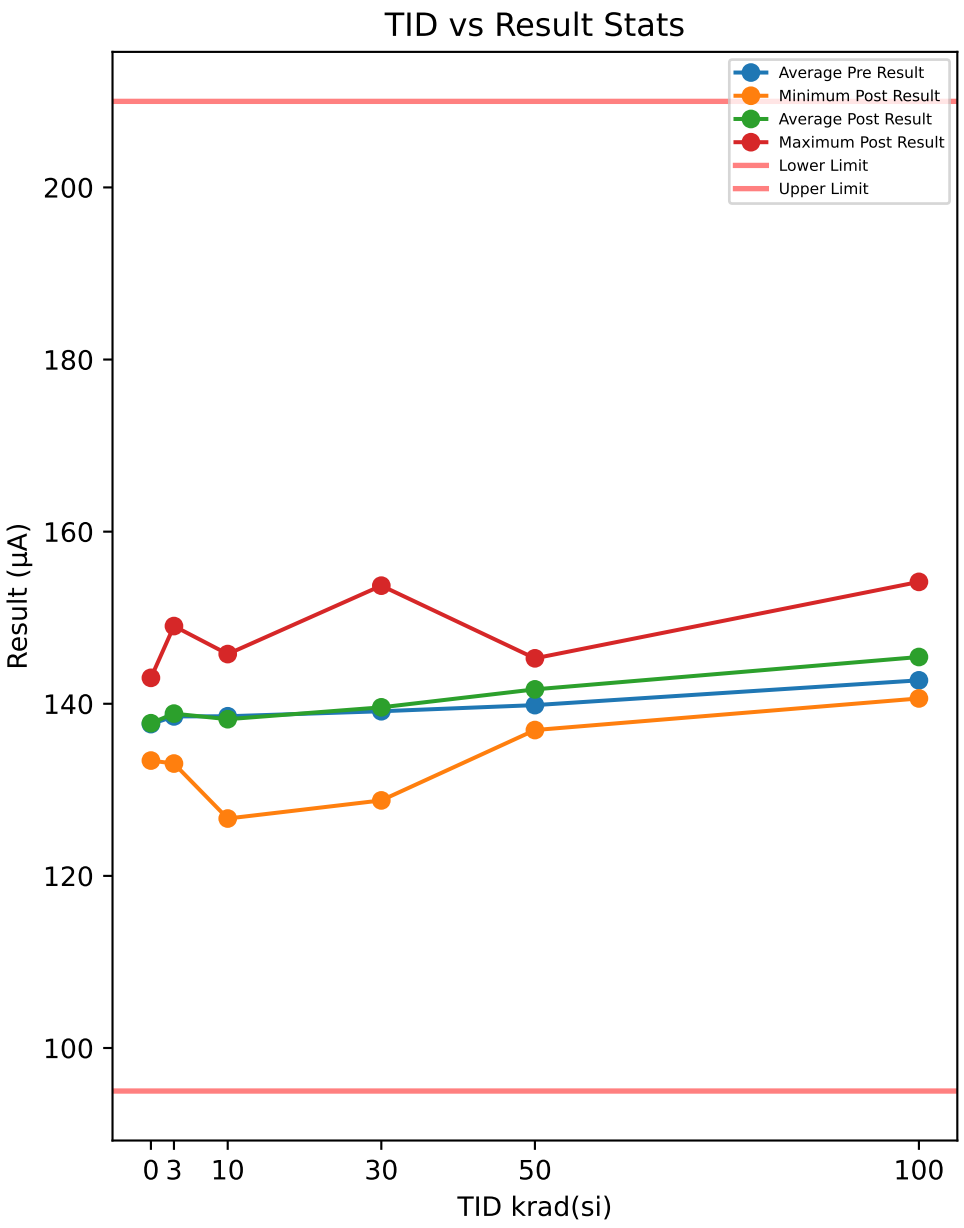
Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

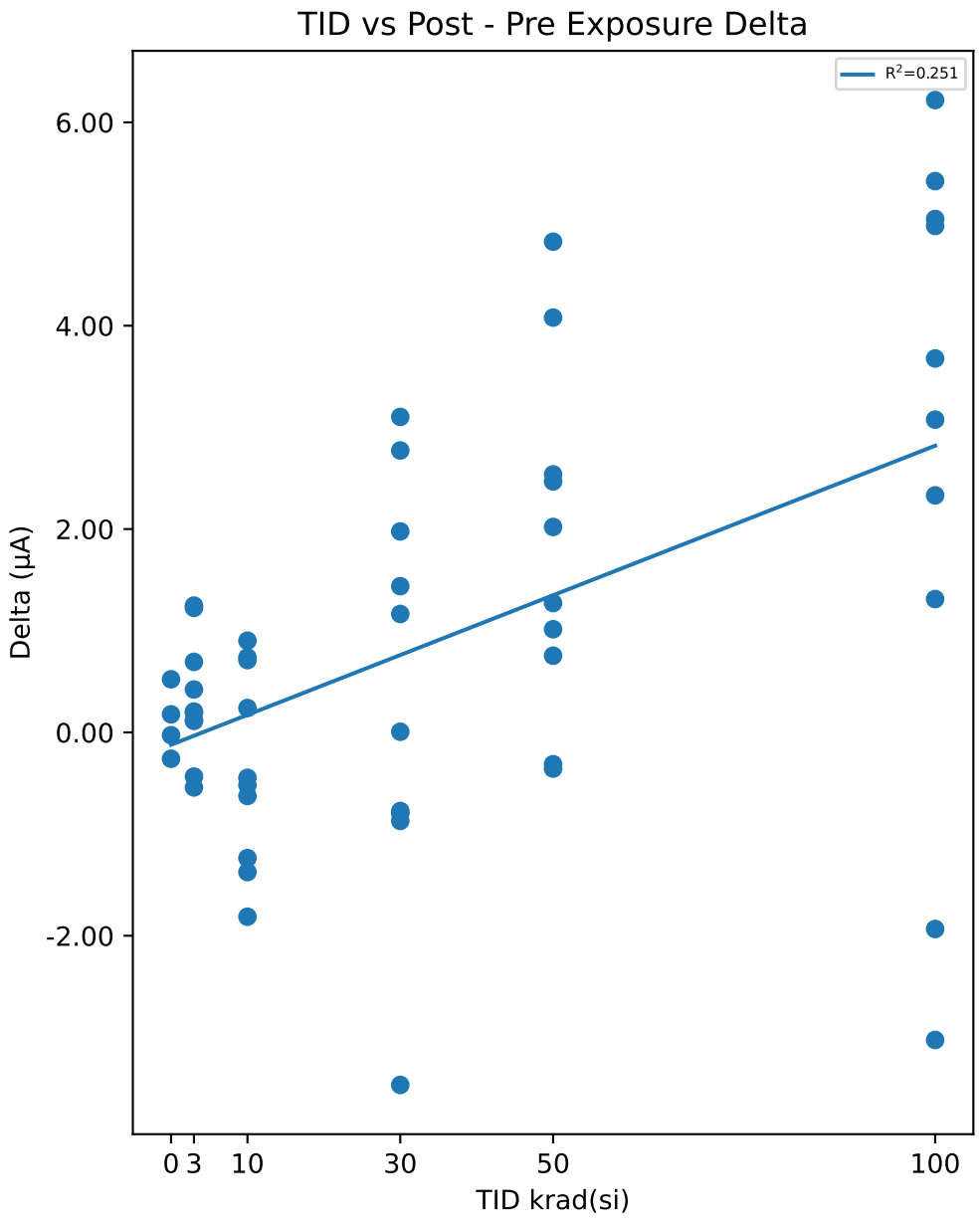
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1701.1	1685.2	-15.848
2	3	HDR BIAS	1685.5	1633.8	-51.68
3	3	HDR BIAS	1633.8	1668.2	34.392
4	3	HDR BIAS	1683.2	1684.5	1.3266
5	3	HDR BIAS	1759.6	1759.3	-0.286
6	3	HDR UNBIAS	1601.1	1650.7	49.537
7	3	HDR UNBIAS	1837.9	1819.9	-18.073
8	3	HDR UNBIAS	1633.9	1632.9	-0.978
9	3	HDR UNBIAS	1703.3	1740.2	36.846
10	3	HDR UNBIAS	1683.2	1650.7	-32.492
11	10	HDR BIAS	1650.8	1651	0.2437
12	10	HDR BIAS	1779.1	1720.7	-58.317
13	10	HDR BIAS	1776.7	1721.5	-55.192
14	10	HDR BIAS	1740.5	1721.7	-18.807
15	10	HDR BIAS	1721.7	1740.7	19.078
16	10	HDR UNBIAS	1615.2	1584.4	-30.728
17	10	HDR UNBIAS	1539.7	1554.4	14.699
18	10	HDR UNBIAS	1721.7	1685.4	-36.235
19	10	HDR UNBIAS	1701.1	1740.7	39.668
20	10	HDR UNBIAS	1585.4	1616.4	31.046
31	30	HDR BIAS	1738.1	1740.7	2.687
32	30	HDR BIAS	1685.5	1702.4	16.915
33	30	HDR BIAS	1585.3	1633.6	48.347
34	30	HDR BIAS	1665.6	1650.7	-14.954
35	30	HDR BIAS	1650.8	1651	0.2518
36	30	HDR UNBIAS	1861.8	1839.4	-22.392
37	30	HDR UNBIAS	1583.2	1585.1	1.9445
38	30	HDR UNBIAS	1650.8	1650.7	-0.0893
39	30	HDR UNBIAS	1740.4	1685.8	-54.613
40	30	HDR UNBIAS	1719.4	1739.4	20.072
41	50	HDR BIAS	1740.5	1759.3	18.826
42	50	HDR BIAS	1703.3	1779.1	75.718
43	50	HDR BIAS	1701.1	1668.2	-32.865
44	50	HDR BIAS	1601.2	1632.9	31.7
45	50	HDR BIAS	1650.7	1650.5	-0.1705
46	50	HDR UNBIAS	1701.1	1721.7	20.59
47	50	HDR UNBIAS	1668	1703.7	35.756
48	50	HDR UNBIAS	1721.7	1758.6	36.886
49	50	HDR UNBIAS	1719.4	1721.5	2.1259
50	50	HDR UNBIAS	1759.6	1740.4	-19.23
51	100	HDR BIAS	1799	1819.9	20.822
52	100	HDR BIAS	1719.4	1739.4	20.063
53	100	HDR BIAS	1703.4	1798.9	95.413
54	100	HDR BIAS	1721.7	1759.5	37.845
55	100	HDR BIAS	1796.7	1840.8	44.137
56	100	HDR UNBIAS	1799.2	1684.5	-114.64
57	100	HDR UNBIAS	1721.7	1721.5	-0.1767
58	100	HDR UNBIAS	1757.2	1721.7	-35.487
59	100	HDR UNBIAS	1703.4	1779.4	75.981
60	100	HDR UNBIAS	1703.3	1758.6	55.205
91	0	CORRELATION	1633.9	1685.2	51.33
92	0	CORRELATION	1617.3	1633.8	16.514
93	0	CORRELATION	1701.1	1779.4	78.347
94	0	CORRELATION	1721.8	1684.5	-37.263

Test Statistics (µA/V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1617.3	1668.5	1721.8	50.707	1633.8	1695.8	1779.4	60.75	-37.263	27.232	78.347	49.893
3	1601.1	1692.3	1837.9	67.734	1632.9	1692.5	1819.9	61.604	-51.68	0.27444	49.537	32.147
10	1539.7	1683.2	1779.1	81.88	1554.4	1673.7	1740.7	68.257	-58.317	-9.4544	39.668	35.405
30	1583.2	1688.1	1861.8	82.5	1585.1	1687.9	1839.4	71.693	-54.613	-0.18305	48.347	27.376
50	1601.2	1696.7	1759.6	46.131	1632.9	1713.6	1779.1	49.314	-32.865	16.934	75.718	31.167
100	1703.3	1742.5	1799.2	41.554	1684.5	1762.4	1840.8	48.32	-114.64	19.917	95.413	60.162

Device Test: 19.40 CURRENT|EA_SOURCE//8/8/0/0/5/500kHz//@EA_I_SOURCE





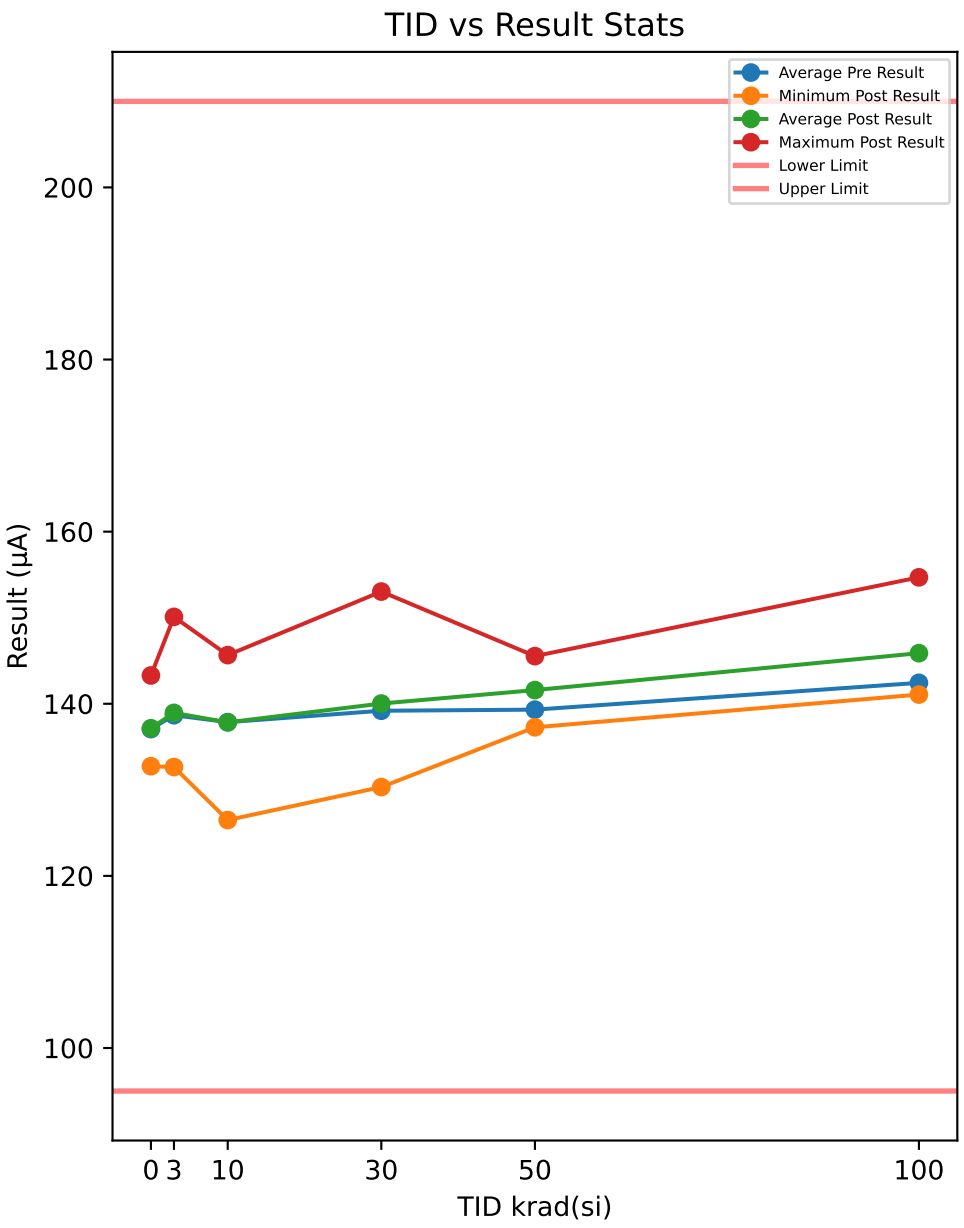
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

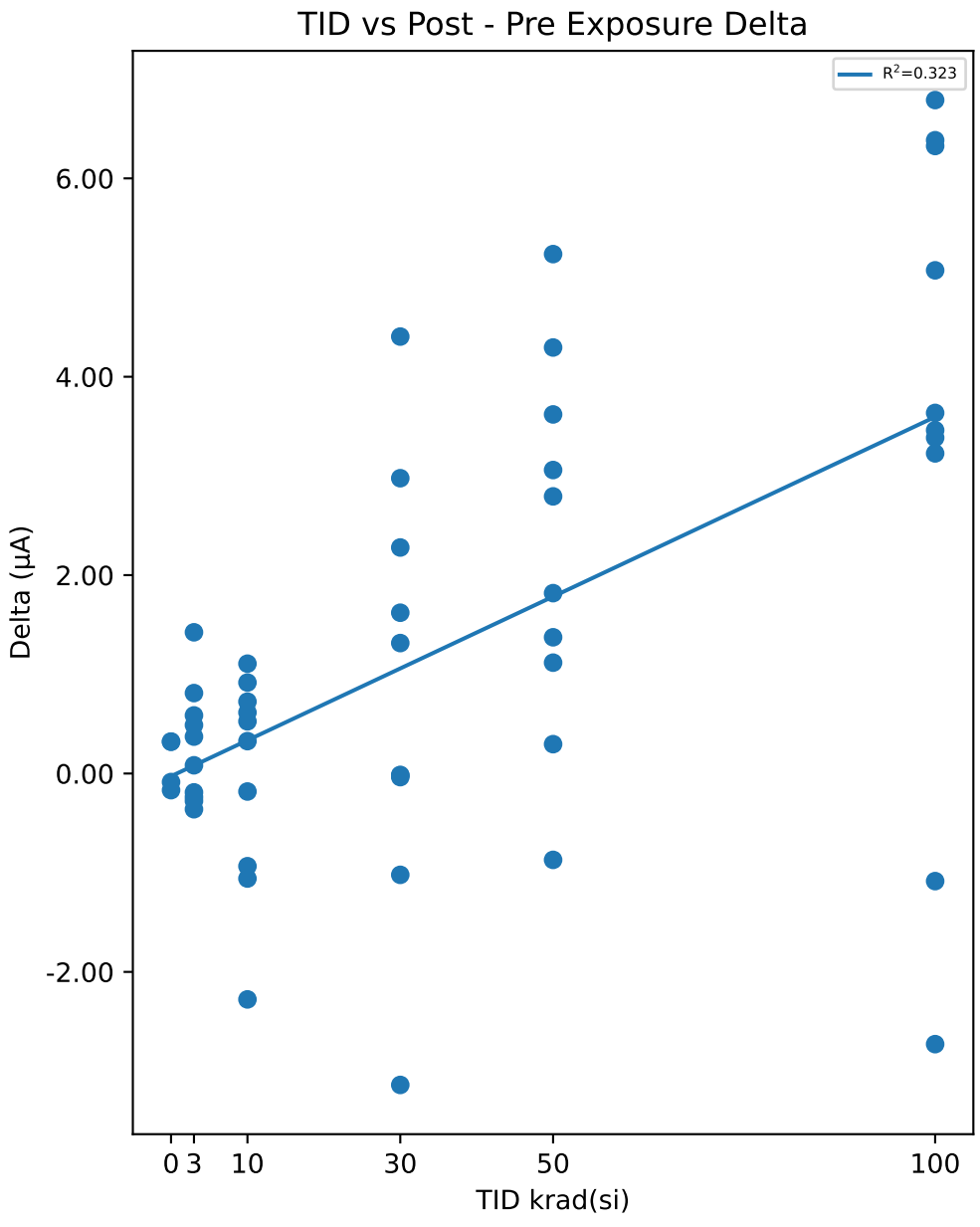
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	138.37	138.8	0.422
2	3	HDR BIAS	136.17	135.73	-0.4346
3	3	HDR BIAS	137.83	137.94	0.1152
4	3	HDR BIAS	139.19	139.4	0.2051
5	3	HDR BIAS	144.31	145.55	1.247
6	3	HDR UNBIAS	132.36	133.05	0.6936
7	3	HDR UNBIAS	148.84	149.03	0.1934
8	3	HDR UNBIAS	133.97	133.43	-0.5412
9	3	HDR UNBIAS	141.12	142.35	1.2243
10	3	HDR UNBIAS	133.16	133.27	0.1152
11	10	HDR BIAS	137.42	136.05	-1.3736
12	10	HDR BIAS	146.4	145.77	-0.6252
13	10	HDR BIAS	141.89	142.63	0.7378
14	10	HDR BIAS	140.76	141	0.2398
15	10	HDR BIAS	146.4	144.59	-1.8128
16	10	HDR UNBIAS	132.81	132.3	-0.5189
17	10	HDR UNBIAS	125.95	126.67	0.7108
18	10	HDR UNBIAS	139.71	138.47	-1.2358
19	10	HDR UNBIAS	142.96	143.86	0.9019
20	10	HDR UNBIAS	131.17	130.72	-0.4467
31	30	HDR BIAS	144.31	146.29	1.9765
32	30	HDR BIAS	138.62	141.72	3.103
33	30	HDR BIAS	131.51	132.95	1.4382
34	30	HDR BIAS	136.3	137.47	1.1648
35	30	HDR BIAS	138.34	137.56	-0.7729
36	30	HDR UNBIAS	153.72	153.72	0.0062
37	30	HDR UNBIAS	129.64	128.77	-0.8704
38	30	HDR UNBIAS	133.75	136.52	2.7728
39	30	HDR UNBIAS	140.75	137.28	-3.4673
40	30	HDR UNBIAS	144.37	143.58	-0.7992
41	50	HDR BIAS	145.34	144.99	-0.3557
42	50	HDR BIAS	142.98	145	2.0205
43	50	HDR BIAS	138.03	139.04	1.0145
44	50	HDR BIAS	134.41	136.95	2.5379
45	50	HDR BIAS	134.18	138.26	4.0798
46	50	HDR UNBIAS	140.01	142.48	2.4683
47	50	HDR UNBIAS	135.16	139.99	4.8264
48	50	HDR UNBIAS	141.91	141.6	-0.3129
49	50	HDR UNBIAS	141.89	143.16	1.2721
50	50	HDR UNBIAS	144.53	145.28	0.7543
51	100	HDR BIAS	148.38	149.69	1.3115
52	100	HDR BIAS	139.03	144.02	4.9811
53	100	HDR BIAS	143.14	148.19	5.0497
54	100	HDR BIAS	141.63	143.96	2.3312
55	100	HDR BIAS	148.74	154.16	5.4222
56	100	HDR UNBIAS	144.93	141.91	-3.0249
57	100	HDR UNBIAS	137.54	140.62	3.0762
58	100	HDR UNBIAS	143.09	141.15	-1.9338
59	100	HDR UNBIAS	138.05	144.27	6.2193
60	100	HDR UNBIAS	142.69	146.37	3.6779
91	0	CORRELATION	136.01	136.19	0.1776
92	0	CORRELATION	133.43	133.4	-0.0276
93	0	CORRELATION	142.49	143.01	0.5226
94	0	CORRELATION	138.62	138.36	-0.2591

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	133.43	137.64	142.49	3.8673	133.4	137.74	143.01	4.0586	-0.2591	0.10337	0.5226	0.33156
3	132.36	138.53	148.84	5.1699	133.05	138.86	149.03	5.4335	-0.5412	0.324	1.247	0.60103
10	125.95	138.55	146.4	6.7277	126.67	138.21	145.77	6.5505	-1.8128	-0.34227	0.9019	0.96084
30	129.64	139.13	153.72	7.1158	128.77	139.59	153.72	7.0678	-3.4673	0.45517	3.103	2.0164
50	134.18	139.84	145.34	4.1806	136.95	141.67	145.28	3.0123	-0.3557	1.8305	4.8264	1.7155
100	137.54	142.72	148.74	3.8996	140.62	145.43	154.16	4.2463	-3.0249	2.711	6.2193	3.1257

Device Test: 19.41 CURRENT|EA_SINK//8/8/0/0/5/500kHz//@EA_I_SINK





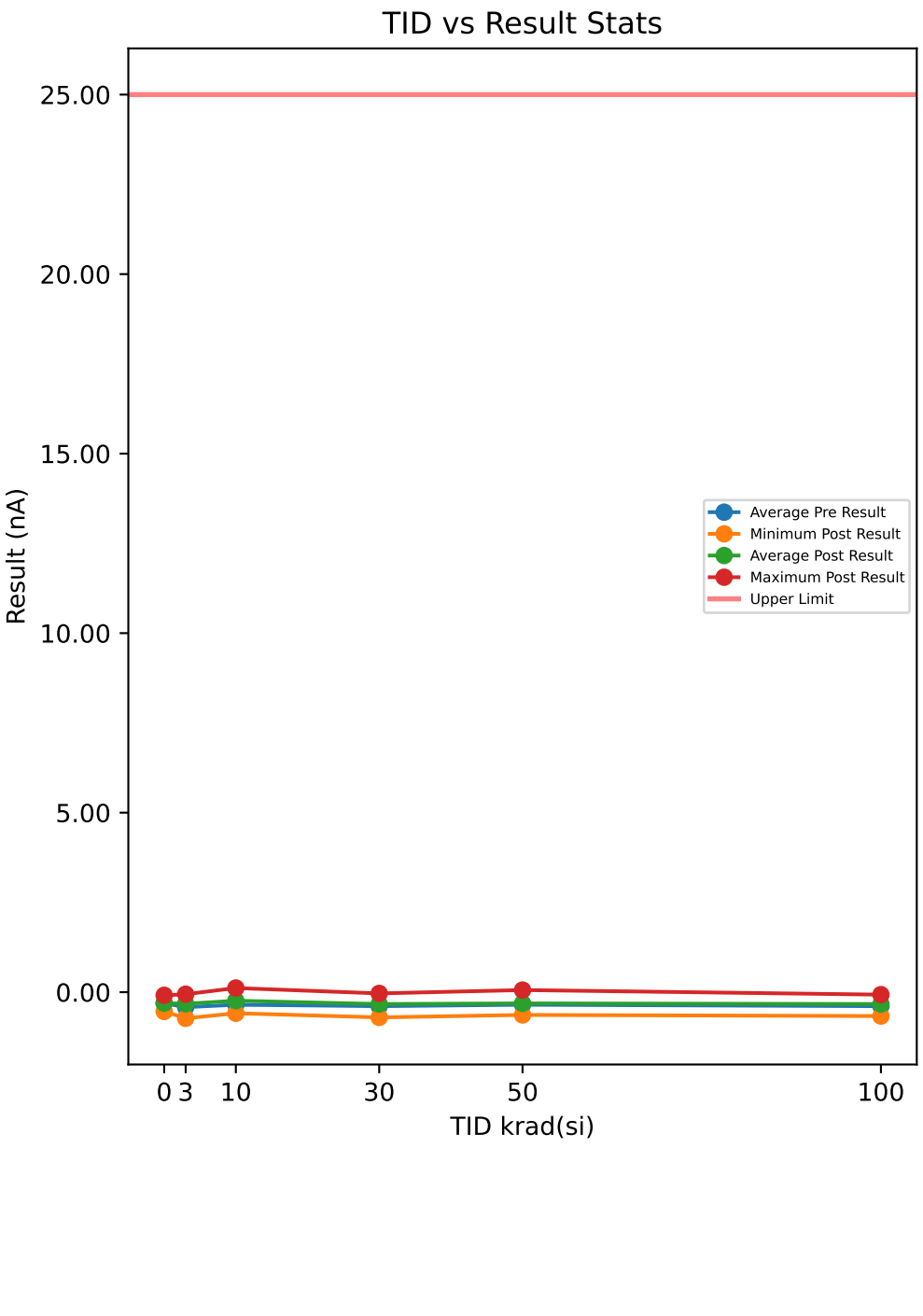
Test Results (Lower Limit = 95.0, Upper Limit = 210.0 (µA))

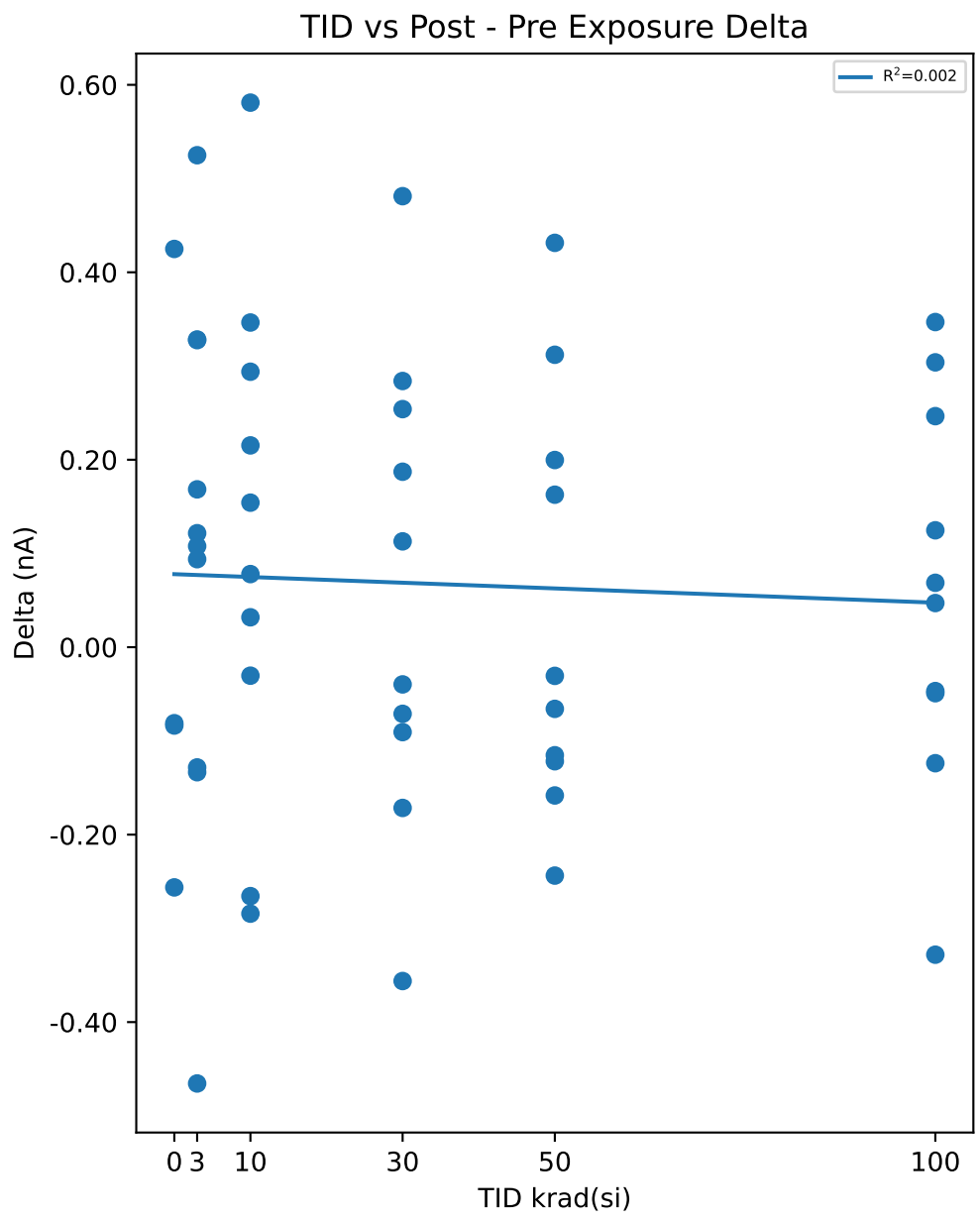
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	138.6	139.09	0.4881
2	3	HDR BIAS	135.88	135.52	-0.36
3	3	HDR BIAS	137.72	137.53	-0.19
4	3	HDR BIAS	138.6	138.36	-0.2373
5	3	HDR BIAS	143.7	145.12	1.4237
6	3	HDR UNBIAS	132.06	132.65	0.5858
7	3	HDR UNBIAS	149.72	150.09	0.372
8	3	HDR UNBIAS	134.43	134.15	-0.2761
9	3	HDR UNBIAS	141.8	142.61	0.811
10	3	HDR UNBIAS	134.2	134.29	0.0829
11	10	HDR BIAS	135.97	134.91	-1.0586
12	10	HDR BIAS	145.13	145.65	0.526
13	10	HDR BIAS	142.03	142.64	0.6154
14	10	HDR BIAS	140.72	141.44	0.7247
15	10	HDR BIAS	145.69	143.42	-2.2772
16	10	HDR UNBIAS	131.35	131.67	0.3266
17	10	HDR UNBIAS	125.38	126.49	1.1074
18	10	HDR UNBIAS	139.35	138.41	-0.9344
19	10	HDR UNBIAS	141.71	142.63	0.9171
20	10	HDR UNBIAS	131.32	131.14	-0.1814
31	30	HDR BIAS	144.32	146.6	2.2787
32	30	HDR BIAS	138.8	143.2	4.4051
33	30	HDR BIAS	130.87	132.49	1.6211
34	30	HDR BIAS	135.27	136.59	1.3152
35	30	HDR BIAS	137.92	137.9	-0.0144
36	30	HDR UNBIAS	153.07	153.04	-0.0363
37	30	HDR UNBIAS	130.34	130.32	-0.0185
38	30	HDR UNBIAS	134.78	137.75	2.9772
39	30	HDR UNBIAS	141.67	138.53	-3.1395
40	30	HDR UNBIAS	144.85	143.83	-1.0214
41	50	HDR BIAS	143.26	142.39	-0.8706
42	50	HDR BIAS	142.4	145.19	2.794
43	50	HDR BIAS	137.28	139.1	1.8185
44	50	HDR BIAS	133.64	137.26	3.6202
45	50	HDR BIAS	134.64	138.93	4.2949
46	50	HDR UNBIAS	138.98	142.04	3.0597
47	50	HDR UNBIAS	133.9	139.13	5.2365
48	50	HDR UNBIAS	143.02	144.4	1.3735
49	50	HDR UNBIAS	140.8	141.92	1.1176
50	50	HDR UNBIAS	145.24	145.54	0.296
51	100	HDR BIAS	147.45	150.91	3.461
52	100	HDR BIAS	138.73	143.8	5.0729
53	100	HDR BIAS	142.57	148.9	6.3264
54	100	HDR BIAS	140.01	143.24	3.2273
55	100	HDR BIAS	148.31	154.69	6.3846
56	100	HDR UNBIAS	145.84	143.11	-2.7283
57	100	HDR UNBIAS	137.68	141.07	3.3854
58	100	HDR UNBIAS	143.85	142.76	-1.0847
59	100	HDR UNBIAS	137.89	144.68	6.7894
60	100	HDR UNBIAS	141.99	145.62	3.6354
91	0	CORRELATION	134.96	134.88	-0.0858
92	0	CORRELATION	132.91	132.74	-0.1677
93	0	CORRELATION	142.97	143.29	0.322
94	0	CORRELATION	137.38	137.7	0.3205

Test Statistics (µA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	132.91	137.06	142.97	4.3445	132.74	137.15	143.29	4.5678	-0.1677	0.09725	0.322	0.26081
3	132.06	138.67	149.72	5.2447	132.65	138.94	150.09	5.5212	-0.36	0.27001	1.4237	0.57547
10	125.38	137.86	145.69	6.6775	126.49	137.84	145.65	6.4279	-2.2772	-0.02344	1.1074	1.0833
30	130.34	139.19	153.07	7.0039	130.32	140.03	153.04	6.764	-3.1395	0.83672	4.4051	2.153
50	133.64	139.32	145.24	4.2657	137.26	141.59	145.54	2.8937	-0.8706	2.274	5.2365	1.8773
100	137.68	142.43	148.31	3.8923	141.07	145.88	154.69	4.2877	-2.7283	3.4469	6.7894	3.1534

Device Test: 19.42 CURRENT|EA//8/8/0/0/5/500kHz//@EA_IB





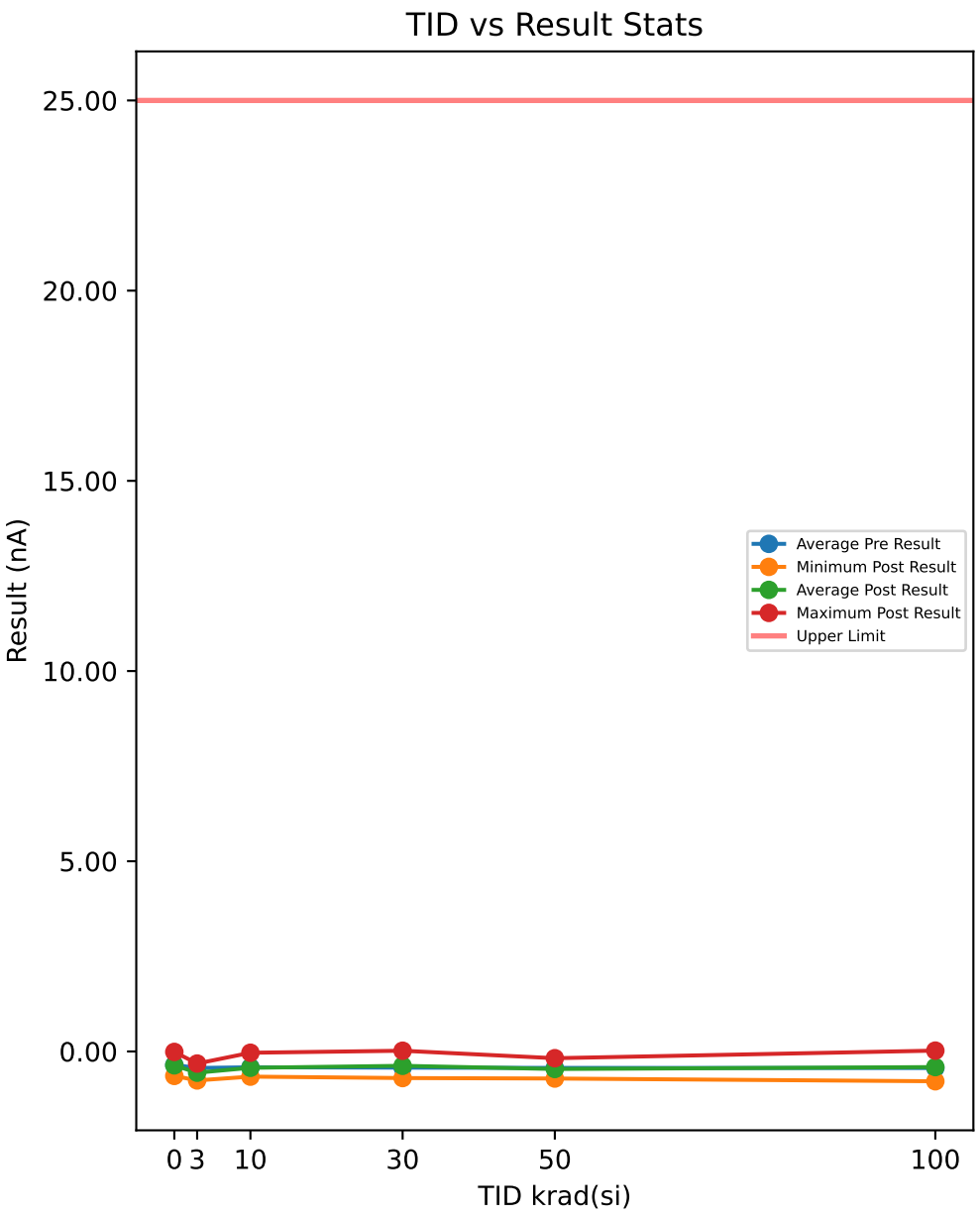
Test Results (Upper Limit = 25.0 (nA))

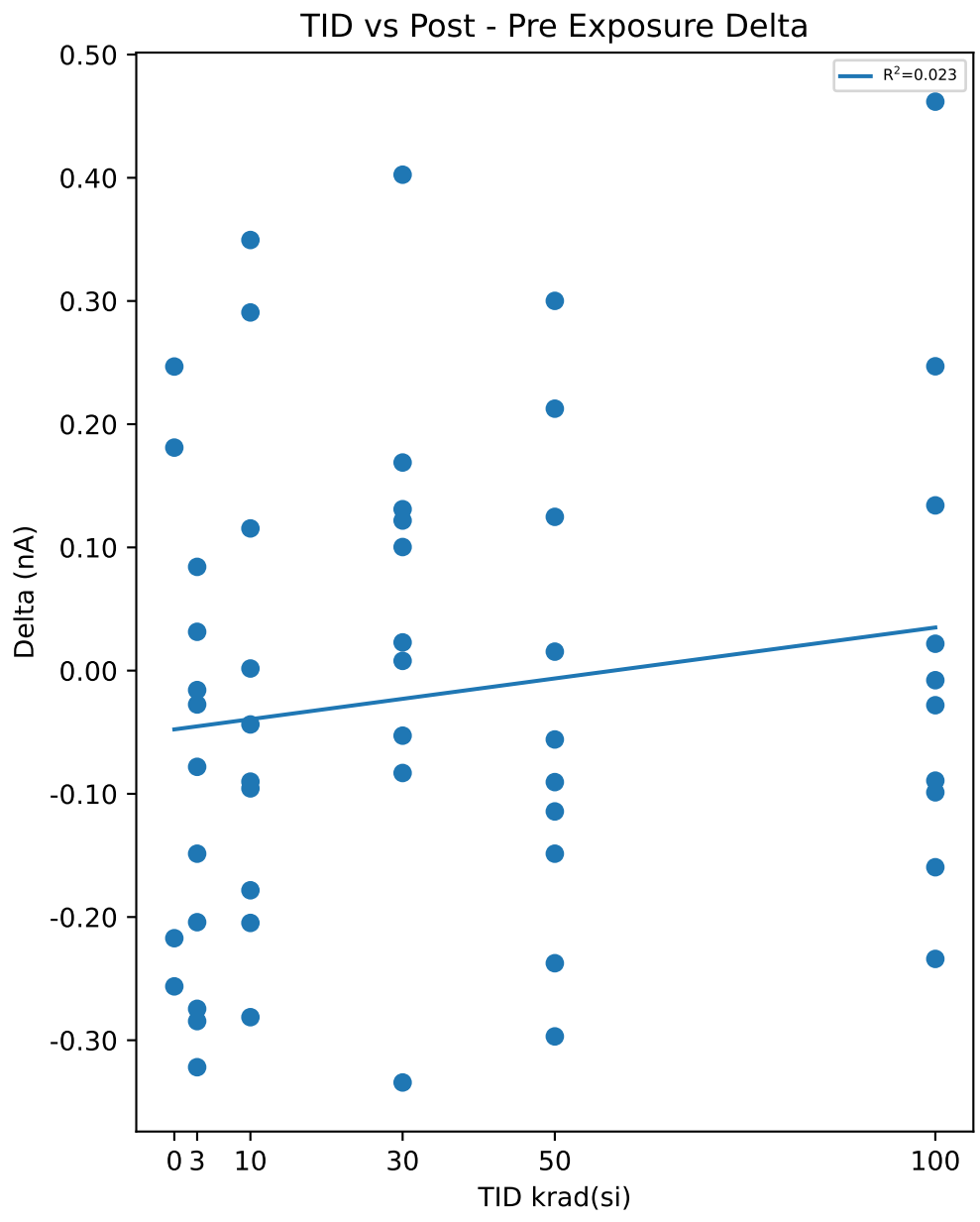
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	-0.5561	-0.2278	0.3283
2	3	HDR BIAS	-0.2621	-0.7276	-0.4655
3	3	HDR BIAS	-0.3557	-0.1873	0.1684
4	3	HDR BIAS	-0.5904	-0.4826	0.1078
5	3	HDR BIAS	-0.2527	-0.1311	0.1216
6	3	HDR UNBIAS	-0.3557	-0.484	-0.1283
7	3	HDR UNBIAS	-0.5811	-0.0562	0.5249
8	3	HDR UNBIAS	-0.2496	-0.383	-0.1334
9	3	HDR UNBIAS	-0.3838	-0.0562	0.3276
10	3	HDR UNBIAS	-0.5904	-0.4965	0.0939
11	10	HDR BIAS	-0.2309	0.1155	0.3464
12	10	HDR BIAS	-0.3339	-0.302	0.0319
13	10	HDR BIAS	-0.5342	-0.2403	0.2939
14	10	HDR BIAS	-0.234	-0.4996	-0.2656
15	10	HDR BIAS	-0.3339	-0.1186	0.2153
16	10	HDR UNBIAS	-0.5123	-0.3581	0.1542
17	10	HDR UNBIAS	-0.2028	-0.1248	0.078
18	10	HDR UNBIAS	-0.3027	-0.587	-0.2843
19	10	HDR UNBIAS	-0.4749	0.1061	0.581
20	10	HDR UNBIAS	-0.3401	-0.3705	-0.0304
31	30	HDR BIAS	-0.5155	-0.0343	0.4812
32	30	HDR BIAS	-0.2527	-0.3238	-0.0711
33	30	HDR BIAS	-0.3495	-0.1623	0.1872
34	30	HDR BIAS	-0.5311	-0.7026	-0.1715
35	30	HDR BIAS	-0.3339	-0.0499	0.284
36	30	HDR UNBIAS	-0.3557	-0.3954	-0.0397
37	30	HDR UNBIAS	-0.5123	-0.3994	0.1129
38	30	HDR UNBIAS	-0.2215	-0.5777	-0.3562
39	30	HDR UNBIAS	-0.2902	-0.3808	-0.0906
40	30	HDR UNBIAS	-0.5342	-0.2802	0.254
41	50	HDR BIAS	-0.2465	-0.3682	-0.1217
42	50	HDR BIAS	-0.3027	-0.5464	-0.2437
43	50	HDR BIAS	-0.4405	-0.2778	0.1627
44	50	HDR BIAS	-0.2621	-0.2927	-0.0306
45	50	HDR BIAS	-0.2746	-0.0749	0.1997
46	50	HDR UNBIAS	-0.5186	-0.6339	-0.1153
47	50	HDR UNBIAS	-0.2527	0.0593	0.312
48	50	HDR UNBIAS	-0.2902	-0.4484	-0.1582
49	50	HDR UNBIAS	-0.6061	-0.1747	0.4314
50	50	HDR UNBIAS	-0.3027	-0.3685	-0.0658
51	100	HDR BIAS	-0.3152	-0.0687	0.2465
52	100	HDR BIAS	-0.5561	-0.2522	0.3039
53	100	HDR BIAS	-0.2777	-0.3245	-0.0468
54	100	HDR BIAS	-0.337	-0.6651	-0.3281
55	100	HDR BIAS	-0.4998	-0.1529	0.3469
56	100	HDR UNBIAS	-0.3183	-0.3674	-0.0491
57	100	HDR UNBIAS	-0.3433	-0.2746	0.0687
58	100	HDR UNBIAS	-0.6685	-0.6214	0.0471
59	100	HDR UNBIAS	-0.2652	-0.1405	0.1247
60	100	HDR UNBIAS	-0.3152	-0.439	-0.1238
91	0	CORRELATION	-0.1966	-0.2777	-0.0811
92	0	CORRELATION	-0.2808	-0.5371	-0.2563
93	0	CORRELATION	-0.5123	-0.0874	0.4249
94	0	CORRELATION	-0.234	-0.3176	-0.0836

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.5123	-0.30593	-0.1966	0.14183	-0.5371	-0.30495	-0.0874	0.1845	-0.2563	0.000975	0.4249	0.29427
3	-0.5904	-0.41776	-0.2496	0.14683	-0.7276	-0.32323	-0.0562	0.22496	-0.4655	0.09453	0.5249	0.28202
10	-0.5342	-0.34997	-0.2028	0.11927	-0.587	-0.23793	0.1155	0.23494	-0.2843	0.11204	0.581	0.26831
30	-0.5342	-0.38966	-0.2215	0.12228	-0.7026	-0.33064	-0.0343	0.21302	-0.3562	0.05902	0.4812	0.24962
50	-0.6061	-0.34967	-0.2465	0.12642	-0.6339	-0.31262	0.0593	0.21029	-0.2437	0.03705	0.4314	0.22456
100	-0.6685	-0.38963	-0.2652	0.1361	-0.6651	-0.33063	-0.0687	0.19866	-0.3281	0.059	0.3469	0.20782

Device Test: 19.43 CURRENT|EA//8/8/0/0/5/100kHz//@EA_IB





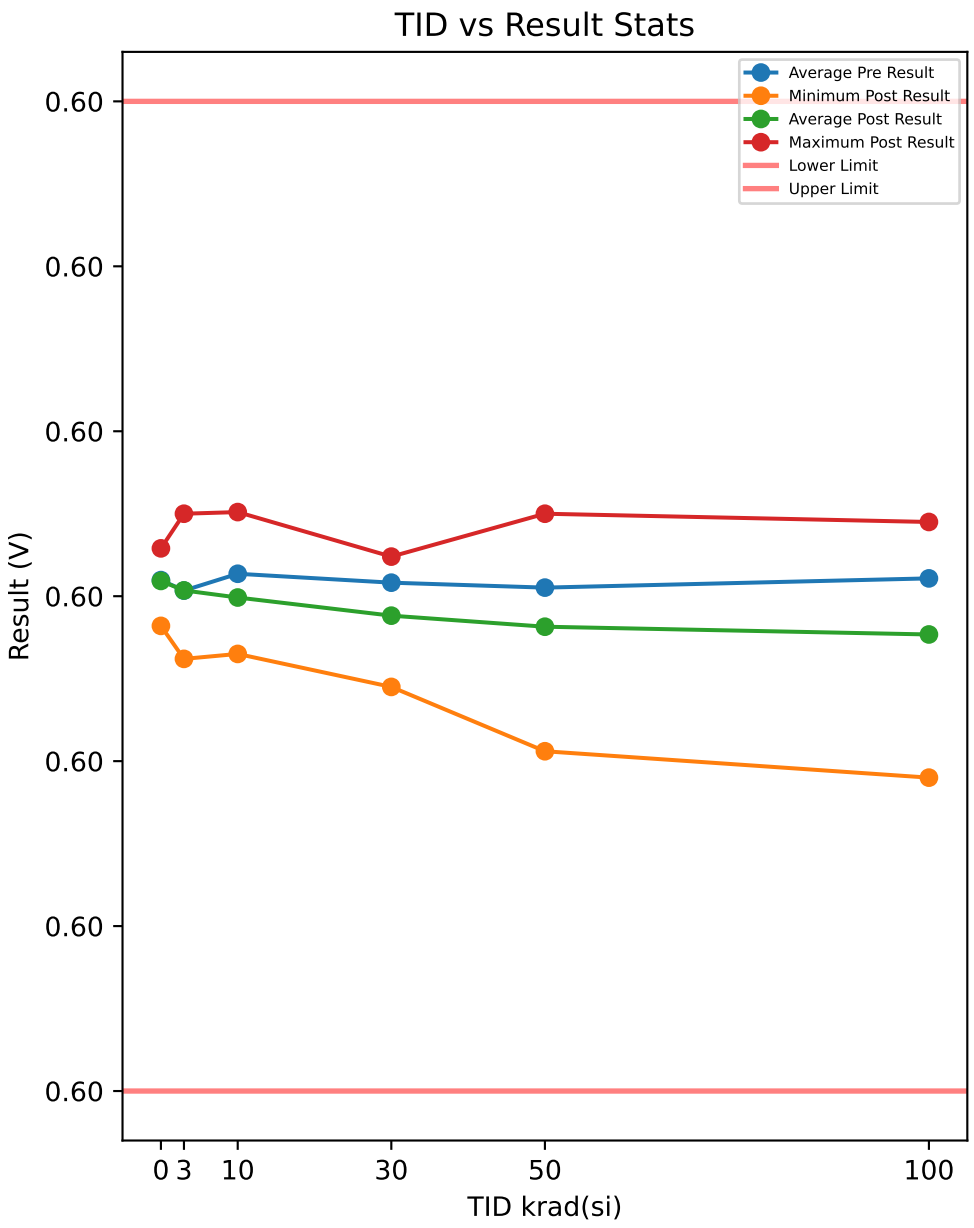
Test Results (Upper Limit = 25.0 (nA))

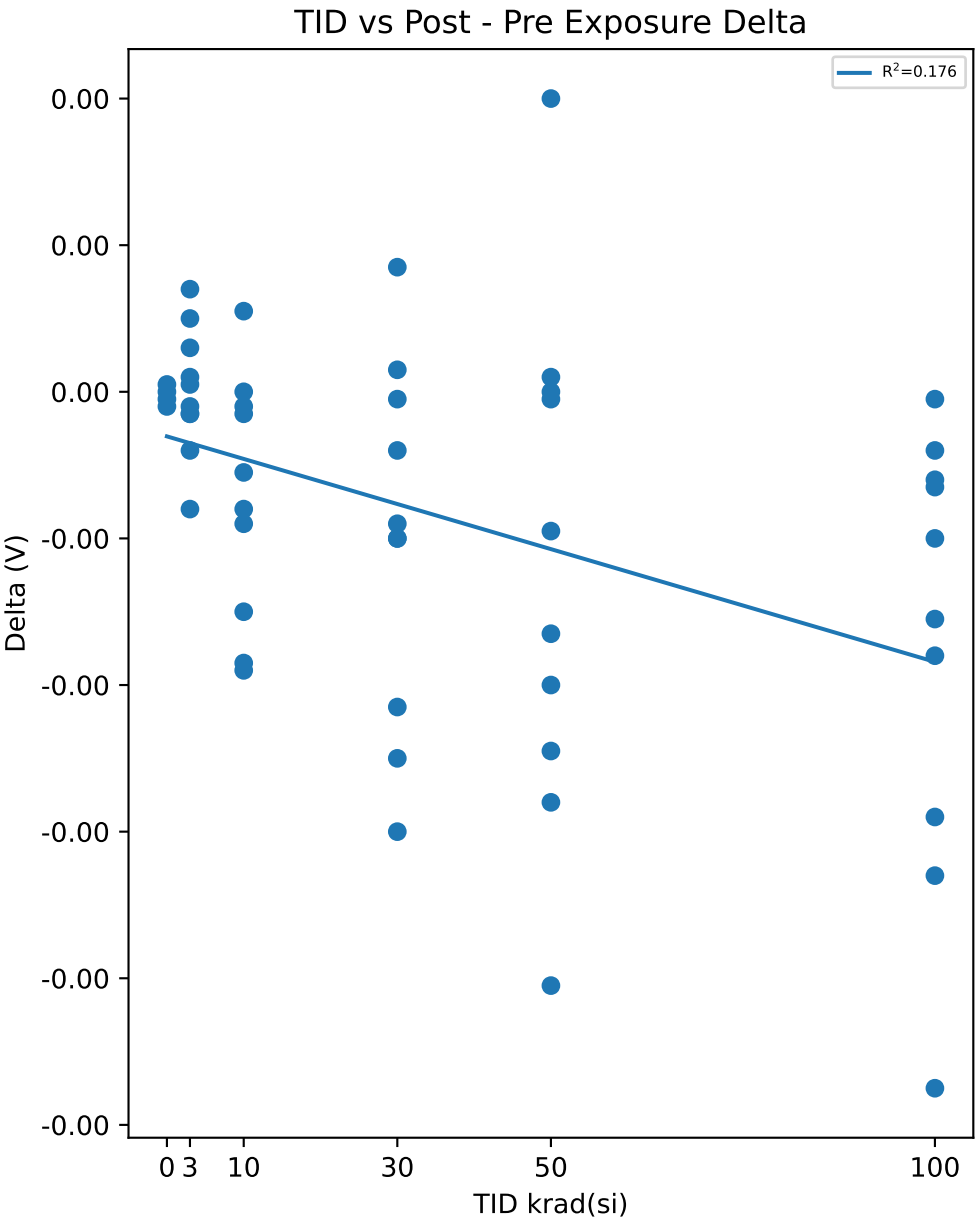
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	-0.5498	-0.5773	-0.0275
2	3	HDR BIAS	-0.4743	-0.7588	-0.2845
3	3	HDR BIAS	-0.493	-0.5088	-0.0158
4	3	HDR BIAS	-0.3874	-0.5916	-0.2042
5	3	HDR BIAS	-0.3869	-0.465	-0.0781
6	3	HDR UNBIAS	-0.44	-0.7619	-0.3219
7	3	HDR UNBIAS	-0.3624	-0.3309	0.0315
8	3	HDR UNBIAS	-0.4025	-0.5511	-0.1486
9	3	HDR UNBIAS	-0.4025	-0.3183	0.0842
10	3	HDR UNBIAS	-0.4499	-0.7244	-0.2745
11	10	HDR BIAS	-0.3526	-0.2372	0.1154
12	10	HDR BIAS	-0.4306	-0.5262	-0.0956
13	10	HDR BIAS	-0.453	-0.1623	0.2907
14	10	HDR BIAS	-0.3807	-0.662	-0.2813
15	10	HDR BIAS	-0.3838	-0.0343	0.3495
16	10	HDR UNBIAS	-0.5248	-0.5231	0.0017
17	10	HDR UNBIAS	-0.4774	-0.5211	-0.0437
18	10	HDR UNBIAS	-0.4181	-0.5964	-0.1783
19	10	HDR UNBIAS	-0.4093	-0.4994	-0.0901
20	10	HDR UNBIAS	-0.3307	-0.5355	-0.2048
31	30	HDR BIAS	-0.4311	-0.2622	0.1689
32	30	HDR BIAS	-0.4088	-0.4919	-0.0831
33	30	HDR BIAS	-0.4338	-0.312	0.1218
34	30	HDR BIAS	-0.4749	-0.5277	-0.0528
35	30	HDR BIAS	-0.3994	-0.2684	0.131
36	30	HDR UNBIAS	-0.4806	-0.4577	0.0229
37	30	HDR UNBIAS	-0.3749	-0.2746	0.1003
38	30	HDR UNBIAS	-0.3651	-0.6994	-0.3343
39	30	HDR UNBIAS	-0.3838	0.0187	0.4025
40	30	HDR UNBIAS	-0.5092	-0.5013	0.0079
41	50	HDR BIAS	-0.4556	-0.3308	0.1248
42	50	HDR BIAS	-0.4338	-0.6713	-0.2375
43	50	HDR BIAS	-0.3936	-0.181	0.2126
44	50	HDR BIAS	-0.3869	-0.5355	-0.1486
45	50	HDR BIAS	-0.3901	-0.4806	-0.0905
46	50	HDR UNBIAS	-0.5998	-0.6557	-0.0559
47	50	HDR UNBIAS	-0.3619	-0.3465	0.0154
48	50	HDR UNBIAS	-0.4088	-0.5231	-0.1143
49	50	HDR UNBIAS	-0.478	-0.1779	0.3001
50	50	HDR UNBIAS	-0.415	-0.7119	-0.2969
51	100	HDR BIAS	-0.44	0.0218	0.4618
52	100	HDR BIAS	-0.4499	-0.4577	-0.0078
53	100	HDR BIAS	-0.3744	-0.3526	0.0218
54	100	HDR BIAS	-0.493	-0.6526	-0.1596
55	100	HDR BIAS	-0.4405	-0.1935	0.247
56	100	HDR UNBIAS	-0.3994	-0.4982	-0.0988
57	100	HDR UNBIAS	-0.3807	-0.4088	-0.0281
58	100	HDR UNBIAS	-0.5498	-0.7838	-0.234
59	100	HDR UNBIAS	-0.3838	-0.2497	0.1341
60	100	HDR UNBIAS	-0.4462	-0.5355	-0.0893
91	0	CORRELATION	-0.415	-0.234	0.181
92	0	CORRELATION	-0.3869	-0.6432	-0.2563
93	0	CORRELATION	-0.2593	-0.0125	0.2468
94	0	CORRELATION	-0.3557	-0.5729	-0.2172

Test Statistics (nA)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.415	-0.35423	-0.2593	0.06776	-0.6432	-0.36565	-0.0125	0.29554	-0.2563	-0.011425	0.2468	0.26205
3	-0.5498	-0.43487	-0.3624	0.05802	-0.7619	-0.55881	-0.3183	0.16029	-0.3219	-0.12394	0.0842	0.14348
10	-0.5248	-0.4161	-0.3307	0.058516	-0.662	-0.42975	-0.0343	0.20792	-0.2813	-0.01365	0.3495	0.20821
30	-0.5092	-0.42616	-0.3651	0.04886	-0.6994	-0.37765	0.0187	0.19946	-0.3343	0.04851	0.4025	0.1918
50	-0.5998	-0.43235	-0.3619	0.068181	-0.7119	-0.46143	-0.1779	0.19536	-0.2969	-0.02908	0.3001	0.19254
100	-0.5498	-0.43577	-0.3744	0.055226	-0.7838	-0.41106	0.0218	0.23254	-0.234	0.02471	0.4618	0.20694

Device Test: 19.44 VOLTAGE|VREF//8/8/0/0/5/100kHz//@VREF_25C





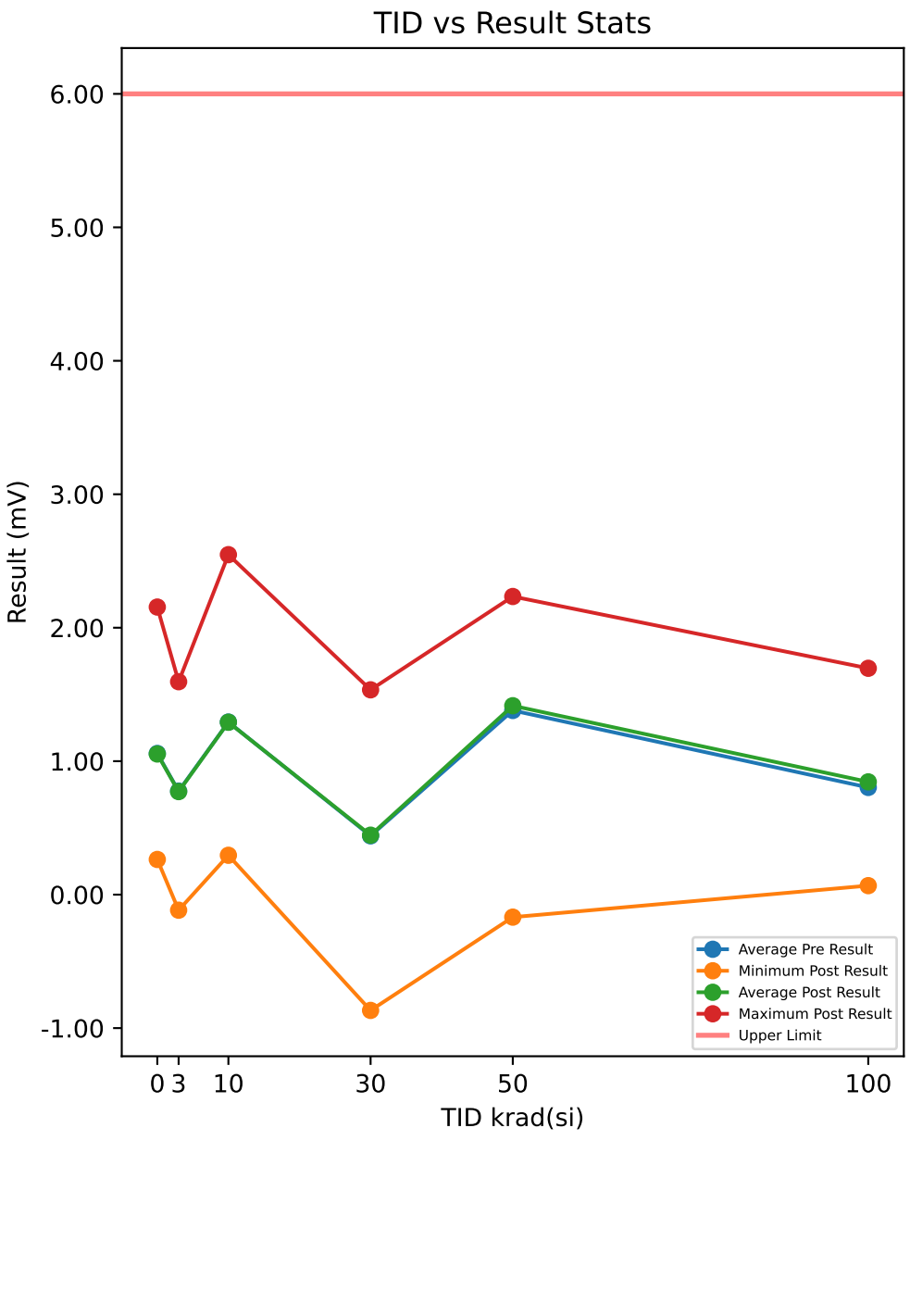
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

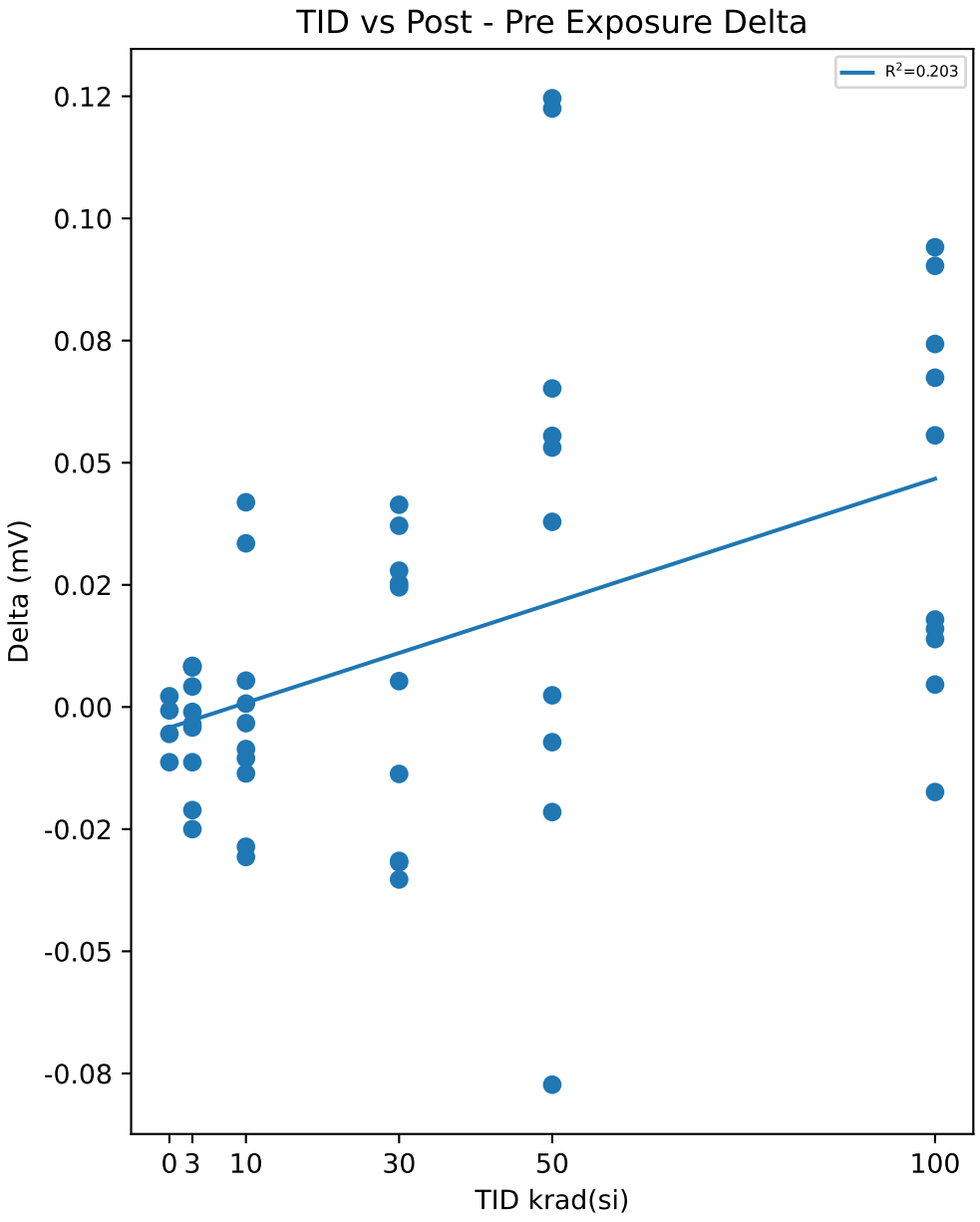
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.6	0.59997	-3e-05
2	3	HDR BIAS	0.60043	0.60049	6e-05
3	3	HDR BIAS	0.5999	0.6	0.0001
4	3	HDR BIAS	0.60036	0.6005	0.00014
5	3	HDR BIAS	0.5997	0.59962	-8e-05
6	3	HDR UNBIAS	0.59983	0.59981	-2e-05
7	3	HDR UNBIAS	0.60014	0.59998	-0.00016
8	3	HDR UNBIAS	0.60029	0.60026	-3e-05
9	3	HDR UNBIAS	0.59986	0.59987	1e-05
10	3	HDR UNBIAS	0.59983	0.59985	2e-05
11	10	HDR BIAS	0.6004	0.60051	0.00011
12	10	HDR BIAS	0.60002	0.59965	-0.00037
13	10	HDR BIAS	0.59991	0.59991	0
14	10	HDR BIAS	0.60032	0.60021	-0.00011
15	10	HDR BIAS	0.60015	0.60012	-3e-05
16	10	HDR UNBIAS	0.60021	0.59991	-0.0003
17	10	HDR UNBIAS	0.60009	0.59971	-0.00038
18	10	HDR UNBIAS	0.60006	0.5999	-0.00016
19	10	HDR UNBIAS	0.60035	0.60033	-2e-05
20	10	HDR UNBIAS	0.59985	0.59967	-0.00018
31	30	HDR BIAS	0.60023	0.60022	-1e-05
32	30	HDR BIAS	0.60019	0.59959	-0.0006
33	30	HDR BIAS	0.60027	0.60019	-8e-05
34	30	HDR BIAS	0.60044	0.60024	-0.0002
35	30	HDR BIAS	0.59991	0.59971	-0.0002
36	30	HDR UNBIAS	0.59986	0.60003	0.00017
37	30	HDR UNBIAS	0.59992	0.59949	-0.00043
38	30	HDR UNBIAS	0.60003	0.60006	3e-05
39	30	HDR UNBIAS	0.59995	0.59945	-0.0005
40	30	HDR UNBIAS	0.60002	0.59984	-0.00018
41	50	HDR BIAS	0.6001	0.6005	0.0004
42	50	HDR BIAS	0.60004	0.59964	-0.0004
43	50	HDR BIAS	0.60004	0.59955	-0.00049
44	50	HDR BIAS	0.59987	0.59931	-0.00056
45	50	HDR BIAS	0.59972	0.59953	-0.00019
46	50	HDR UNBIAS	0.60045	0.60012	-0.00033
47	50	HDR UNBIAS	0.6002	0.60019	-1e-05
48	50	HDR UNBIAS	0.59987	0.59906	-0.00081
49	50	HDR UNBIAS	0.6004	0.60042	2e-05
50	50	HDR UNBIAS	0.59983	0.59983	0
51	100	HDR BIAS	0.59985	0.5989	-0.00095
52	100	HDR BIAS	0.59974	0.59961	-0.00013
53	100	HDR BIAS	0.60049	0.59991	-0.00058
54	100	HDR BIAS	0.60007	0.59941	-0.00066
55	100	HDR BIAS	0.60022	0.59991	-0.00031
56	100	HDR UNBIAS	0.59975	0.59974	-1e-05
57	100	HDR UNBIAS	0.60022	0.60002	-0.0002
58	100	HDR UNBIAS	0.5998	0.59944	-0.00036
59	100	HDR UNBIAS	0.60041	0.60029	-0.00012
60	100	HDR UNBIAS	0.60053	0.60045	-8e-05
91	0	CORRELATION	0.6003	0.60029	-1e-05
92	0	CORRELATION	0.60022	0.6002	-2e-05
93	0	CORRELATION	0.59982	0.59982	0
94	0	CORRELATION	0.60005	0.60006	1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59982	0.6001	0.6003	0.00021235	0.59982	0.60009	0.60029	0.00020484	-2e-05	-5e-06	1e-05	1.291e-05
3	0.5997	0.60003	0.60043	0.00025474	0.59962	0.60003	0.6005	0.00029186	-0.00016	1e-06	0.00014	8.6852e-05
10	0.59985	0.60014	0.6004	0.00018536	0.59965	0.59999	0.60051	0.00029223	-0.00038	-0.000144	0.00011	0.00016581
30	0.59986	0.60008	0.60044	0.00019037	0.59945	0.59988	0.60024	0.00030691	-0.0006	-0.0002	0.00017	0.00024576
50	0.59972	0.60005	0.60045	0.00024262	0.59906	0.59981	0.6005	0.00048031	-0.00081	-0.000237	0.0004	0.00035176
100	0.59974	0.60011	0.60053	0.00031033	0.5989	0.59977	0.60045	0.00045416	-0.00095	-0.00034	-1e-05	0.00030221

Device Test: 19.46 VOLTAGE|OFFSET//8/8/0/0/5/100kHz//@EA_OS





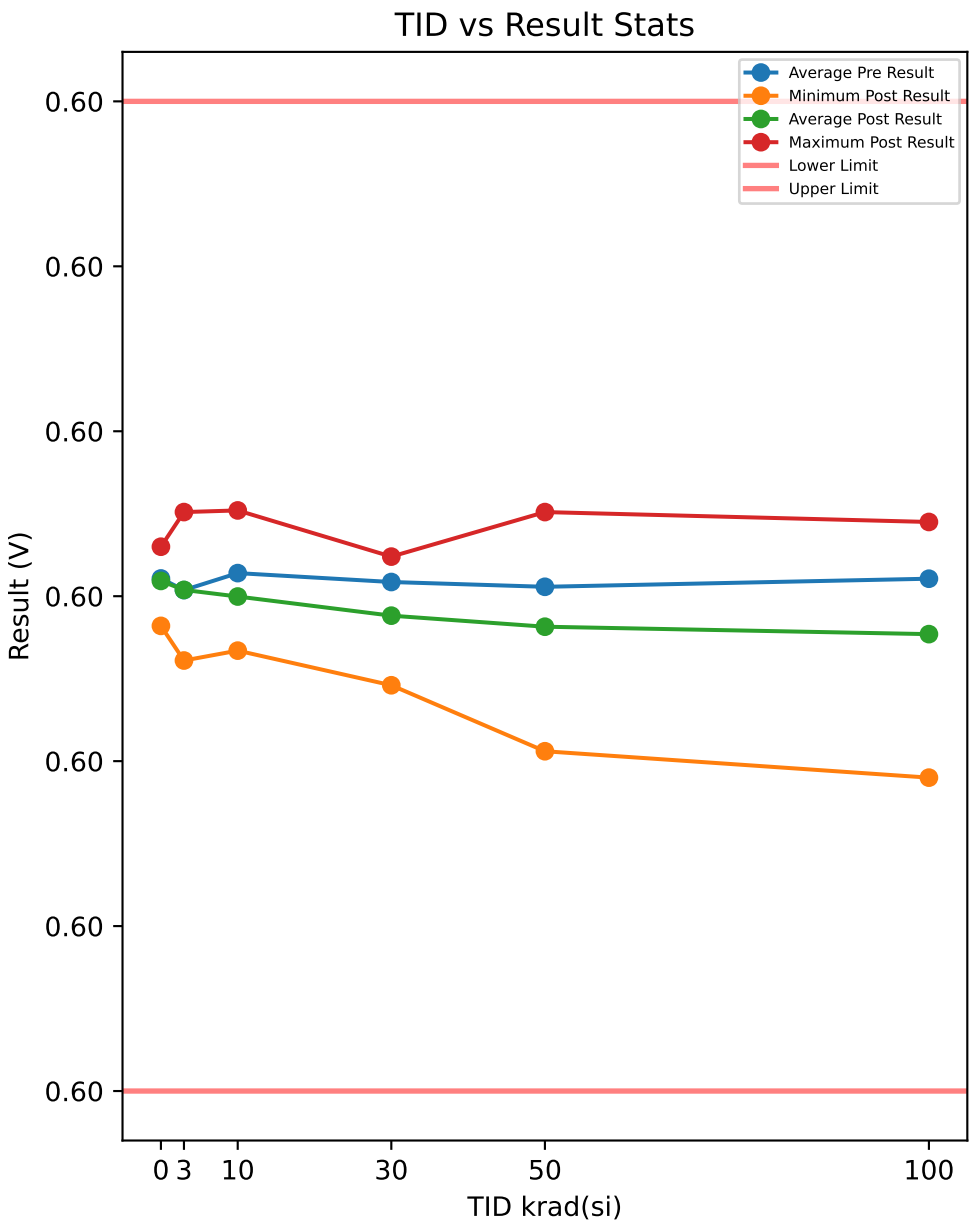
Test Results (Upper Limit = 6.0 (mV))

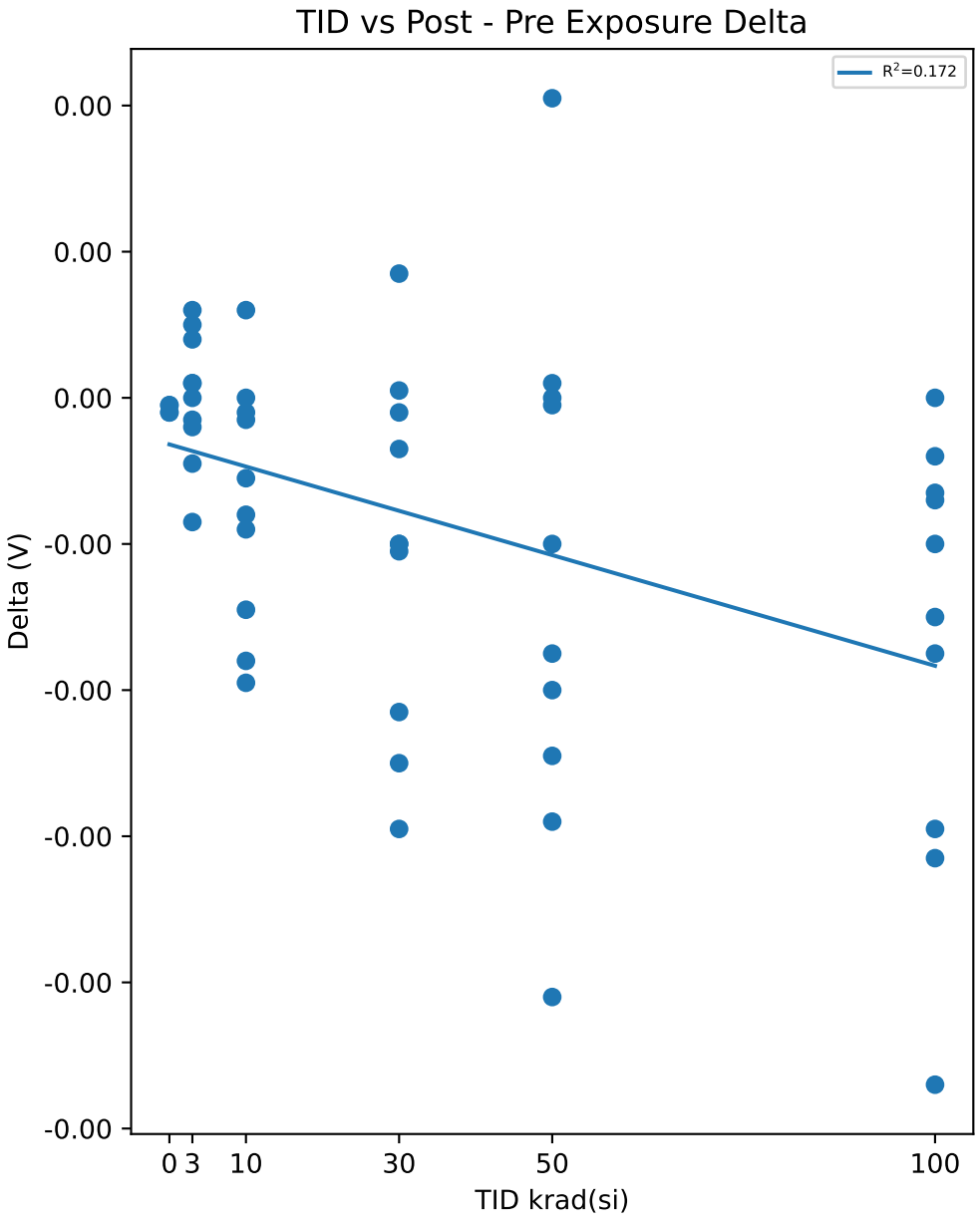
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.2476	0.256	0.0084
2	3	HDR BIAS	1.388	1.3922	0.0042
3	3	HDR BIAS	1.3033	1.2783	-0.025
4	3	HDR BIAS	0.3304	0.3385	0.0081
5	3	HDR BIAS	1.6165	1.5954	-0.0211
6	3	HDR UNBIAS	1.5274	1.5161	-0.0113
7	3	HDR UNBIAS	-0.1124	-0.1166	-0.0042
8	3	HDR UNBIAS	0.2028	0.2112	0.0084
9	3	HDR UNBIAS	1.1405	1.1395	-0.001
10	3	HDR UNBIAS	0.1136	0.1101	-0.0035
11	10	HDR BIAS	1.1438	1.1773	0.0335
12	10	HDR BIAS	2.576	2.5474	-0.0286
13	10	HDR BIAS	1.5785	1.6204	0.0419
14	10	HDR BIAS	0.9625	0.9679	0.0054
15	10	HDR BIAS	0.4507	0.4421	-0.0086
16	10	HDR UNBIAS	2.0264	2.0159	-0.0105
17	10	HDR UNBIAS	1.3152	1.3119	-0.0033
18	10	HDR UNBIAS	1.4788	1.4481	-0.0307
19	10	HDR UNBIAS	1.0901	1.0908	0.0007
20	10	HDR UNBIAS	0.3085	0.2949	-0.0136
31	30	HDR BIAS	-0.0783	-0.053	0.0253
32	30	HDR BIAS	0.866	0.8905	0.0245
33	30	HDR BIAS	0.1338	0.0985	-0.0353
34	30	HDR BIAS	0.921	0.9581	0.0371
35	30	HDR BIAS	1.0397	1.045	0.0053
36	30	HDR UNBIAS	1.5483	1.5346	-0.0137
37	30	HDR UNBIAS	0.5543	0.5225	-0.0318
38	30	HDR UNBIAS	-0.8954	-0.8675	0.0279
39	30	HDR UNBIAS	-0.4814	-0.5129	-0.0315
40	30	HDR UNBIAS	0.7976	0.839	0.0414
41	50	HDR BIAS	2.1114	2.2339	0.1225
42	50	HDR BIAS	1.4813	1.4598	-0.0215
43	50	HDR BIAS	2.1423	2.1447	0.0024
44	50	HDR BIAS	1.3952	1.4604	0.0652
45	50	HDR BIAS	1.2586	1.2965	0.0379
46	50	HDR UNBIAS	0.8276	0.7503	-0.0773
47	50	HDR UNBIAS	1.5604	1.6135	0.0531
48	50	HDR UNBIAS	1.3774	1.3702	-0.0072
49	50	HDR UNBIAS	1.9385	1.994	0.0555
50	50	HDR UNBIAS	-0.2932	-0.1686	0.1246
51	100	HDR BIAS	0.4336	0.5079	0.0743
52	100	HDR BIAS	1.6057	1.696	0.0903
53	100	HDR BIAS	0.6012	0.6151	0.0139
54	100	HDR BIAS	1.3626	1.3805	0.0179
55	100	HDR BIAS	1.1182	1.1342	0.016
56	100	HDR UNBIAS	1.0481	1.0527	0.0046
57	100	HDR UNBIAS	1.1972	1.1798	-0.0174
58	100	HDR UNBIAS	-0.0267	0.0674	0.0941
59	100	HDR UNBIAS	0.0675	0.1231	0.0556
60	100	HDR UNBIAS	0.6247	0.6921	0.0674
91	0	CORRELATION	2.1526	2.1548	0.0022
92	0	CORRELATION	0.6556	0.6443	-0.0113
93	0	CORRELATION	0.2691	0.2636	-0.0055
94	0	CORRELATION	1.1534	1.1527	-0.0007

Test Statistics (mV)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2691	1.0577	2.1526	0.81477	0.2636	1.0538	2.1548	0.81937	-0.0113	-0.003825	0.0022	0.005909
3	-0.1124	0.77577	1.6165	0.67419	-0.1166	0.77207	1.5954	0.66701	-0.025	-0.0037	0.0084	0.012093
10	0.3085	1.2931	2.576	0.6792	0.2949	1.2917	2.5474	0.6756	-0.0307	-0.00138	0.0419	0.023638
30	-0.8954	0.44056	1.5483	0.75545	-0.8675	0.44548	1.5346	0.75854	-0.0353	0.00492	0.0414	0.030427
50	-0.2932	1.38	2.1423	0.71418	-0.1686	1.4155	2.2339	0.71082	-0.0773	0.03552	0.1246	0.063243
100	-0.0267	0.80321	1.6057	0.5488	0.0674	0.84488	1.696	0.53391	-0.0174	0.04167	0.0941	0.03929

Device Test: 19.47 VOLTAGE|VREF//8/8/0/0/5/500kHz//@VREF_25C





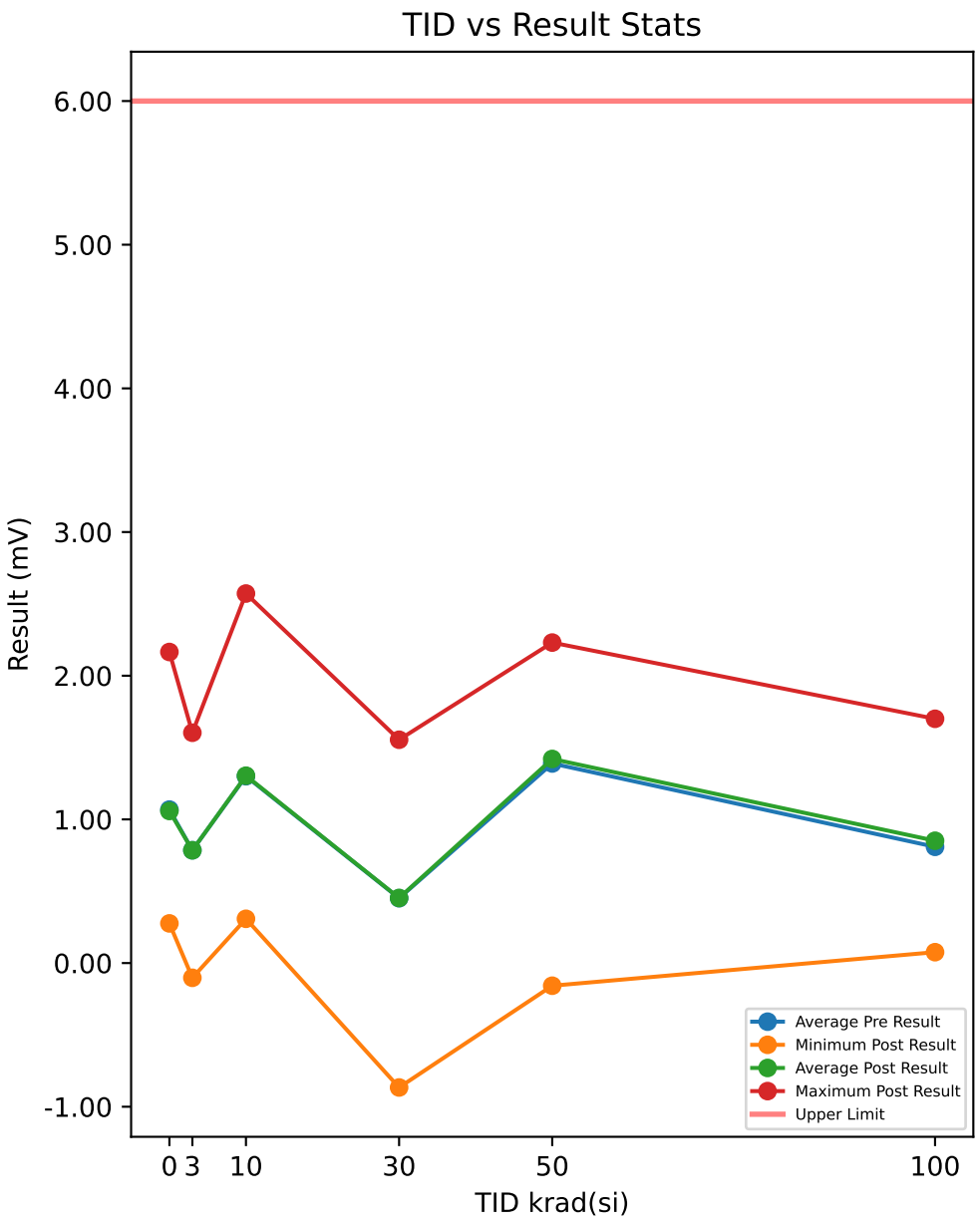
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

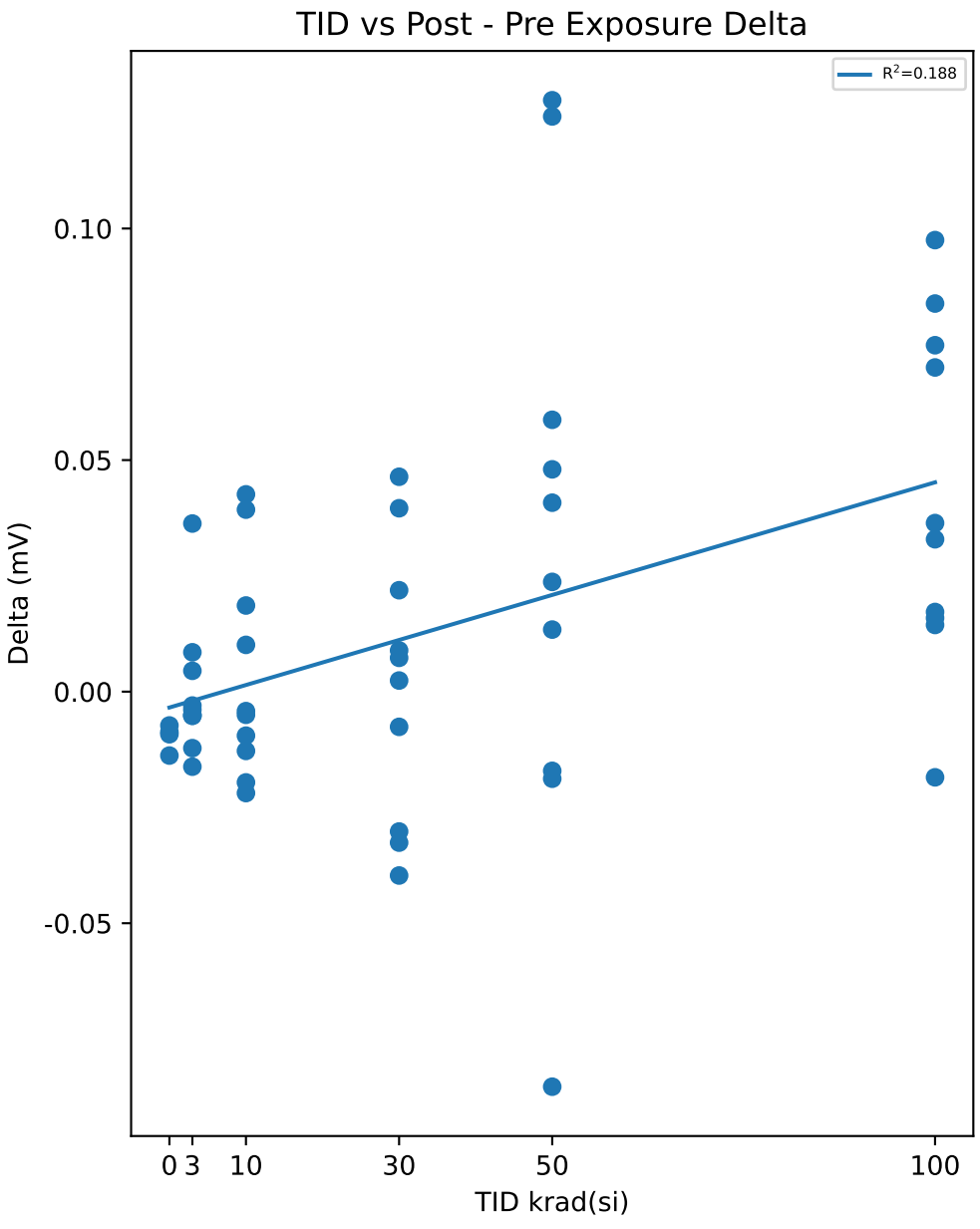
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.6	0.59997	-3e-05
2	3	HDR BIAS	0.60043	0.60051	8e-05
3	3	HDR BIAS	0.5999	0.6	0.0001
4	3	HDR BIAS	0.60038	0.6005	0.00012
5	3	HDR BIAS	0.5997	0.59961	-9e-05
6	3	HDR UNBIAS	0.59982	0.59982	0
7	3	HDR UNBIAS	0.60015	0.59998	-0.00017
8	3	HDR UNBIAS	0.6003	0.60026	-4e-05
9	3	HDR UNBIAS	0.59986	0.59988	2e-05
10	3	HDR UNBIAS	0.59983	0.59985	2e-05
11	10	HDR BIAS	0.6004	0.60052	0.00012
12	10	HDR BIAS	0.60003	0.59967	-0.00036
13	10	HDR BIAS	0.59991	0.59991	0
14	10	HDR BIAS	0.60033	0.60022	-0.00011
15	10	HDR BIAS	0.60015	0.60012	-3e-05
16	10	HDR UNBIAS	0.60021	0.59992	-0.00029
17	10	HDR UNBIAS	0.6001	0.59971	-0.00039
18	10	HDR UNBIAS	0.60006	0.5999	-0.00016
19	10	HDR UNBIAS	0.60035	0.60033	-2e-05
20	10	HDR UNBIAS	0.59986	0.59968	-0.00018
31	30	HDR BIAS	0.60023	0.60021	-2e-05
32	30	HDR BIAS	0.60019	0.5996	-0.00059
33	30	HDR BIAS	0.60026	0.60019	-7e-05
34	30	HDR BIAS	0.60044	0.60024	-0.0002
35	30	HDR BIAS	0.59992	0.59971	-0.00021
36	30	HDR UNBIAS	0.59986	0.60003	0.00017
37	30	HDR UNBIAS	0.59992	0.59949	-0.00043
38	30	HDR UNBIAS	0.60005	0.60006	1e-05
39	30	HDR UNBIAS	0.59996	0.59946	-0.0005
40	30	HDR UNBIAS	0.60003	0.59983	-0.0002
41	50	HDR BIAS	0.6001	0.60051	0.00041
42	50	HDR BIAS	0.60005	0.59965	-0.0004
43	50	HDR BIAS	0.60004	0.59955	-0.00049
44	50	HDR BIAS	0.59988	0.5993	-0.00058
45	50	HDR BIAS	0.59972	0.59952	-0.0002
46	50	HDR UNBIAS	0.60047	0.60012	-0.00035
47	50	HDR UNBIAS	0.6002	0.60019	-1e-05
48	50	HDR UNBIAS	0.59988	0.59906	-0.00082
49	50	HDR UNBIAS	0.6004	0.60042	2e-05
50	50	HDR UNBIAS	0.59983	0.59983	0
51	100	HDR BIAS	0.59984	0.5989	-0.00094
52	100	HDR BIAS	0.59974	0.59961	-0.00013
53	100	HDR BIAS	0.6005	0.59991	-0.00059
54	100	HDR BIAS	0.60006	0.59943	-0.00063
55	100	HDR BIAS	0.60021	0.59991	-0.0003
56	100	HDR UNBIAS	0.59975	0.59975	0
57	100	HDR UNBIAS	0.60022	0.60002	-0.0002
58	100	HDR UNBIAS	0.5998	0.59945	-0.00035
59	100	HDR UNBIAS	0.60041	0.60027	-0.00014
60	100	HDR UNBIAS	0.60053	0.60045	-8e-05
91	0	CORRELATION	0.60032	0.6003	-2e-05
92	0	CORRELATION	0.60022	0.6002	-2e-05
93	0	CORRELATION	0.59983	0.59982	-1e-05
94	0	CORRELATION	0.60006	0.60005	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59983	0.60011	0.60032	0.00021376	0.59982	0.60009	0.6003	0.00020871	-2e-05	-1.5e-05	-1e-05	5.7735e-06
3	0.5997	0.60004	0.60043	0.00026013	0.59961	0.60004	0.60051	0.00029551	-0.00017	1e-06	0.00012	8.8876e-05
10	0.59986	0.60014	0.6004	0.00018385	0.59967	0.6	0.60052	0.00029097	-0.00039	-0.000142	0.00012	0.00016665
30	0.59986	0.60009	0.60044	0.00018668	0.59946	0.59988	0.60024	0.00030327	-0.00059	-0.000204	0.00017	0.00024158
50	0.59972	0.60006	0.60047	0.00024463	0.59906	0.59981	0.60051	0.00048335	-0.00082	-0.000242	0.00041	0.00035814
100	0.59974	0.60011	0.60053	0.00031242	0.5989	0.59977	0.60045	0.00044907	-0.00094	-0.000336	0	0.00029722

Device Test: 19.49 VOLTAGE|OFFSET//8/8/0/0/5/500kHz//@EA_OS





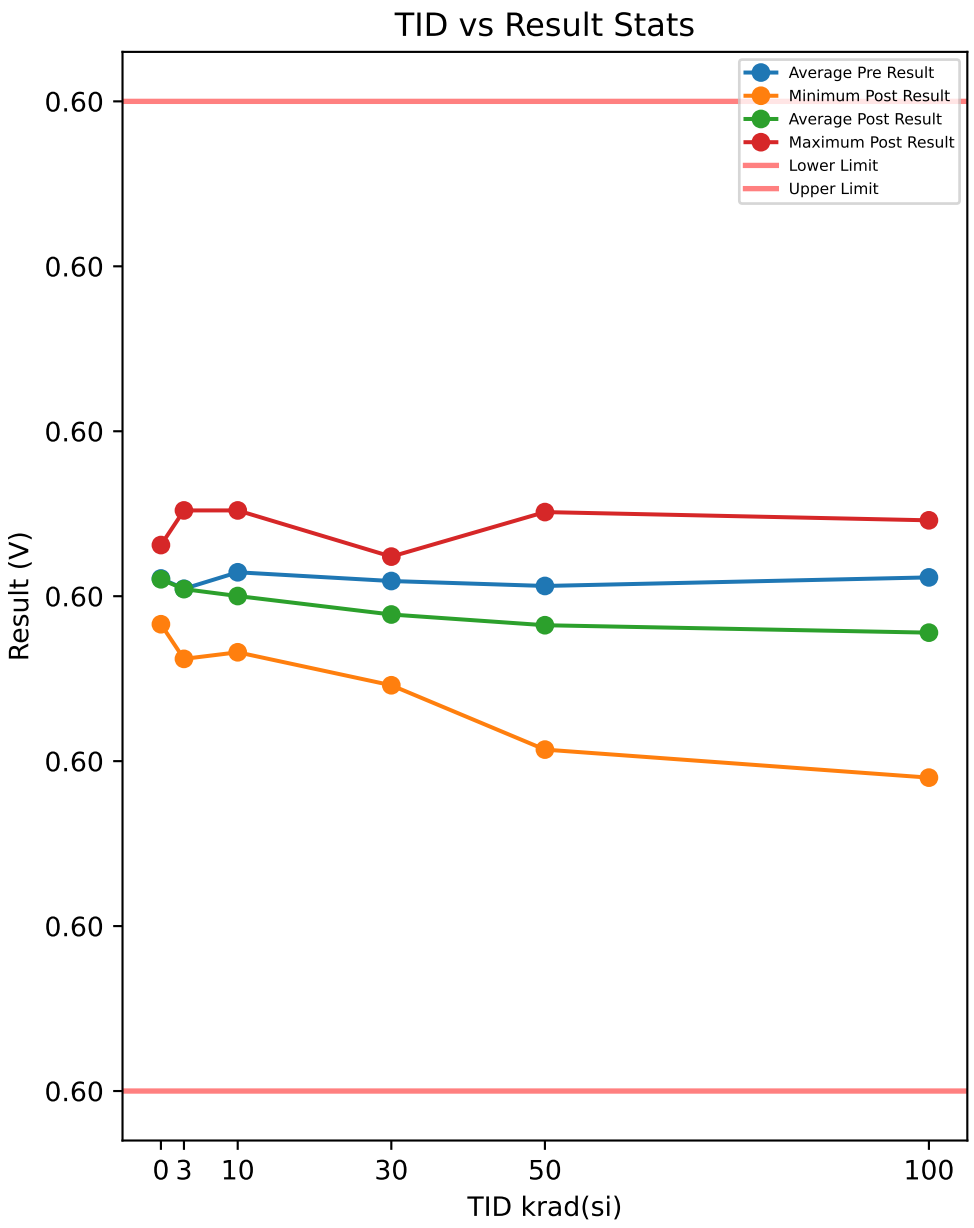
Test Results (Upper Limit = 6.0 (mV))

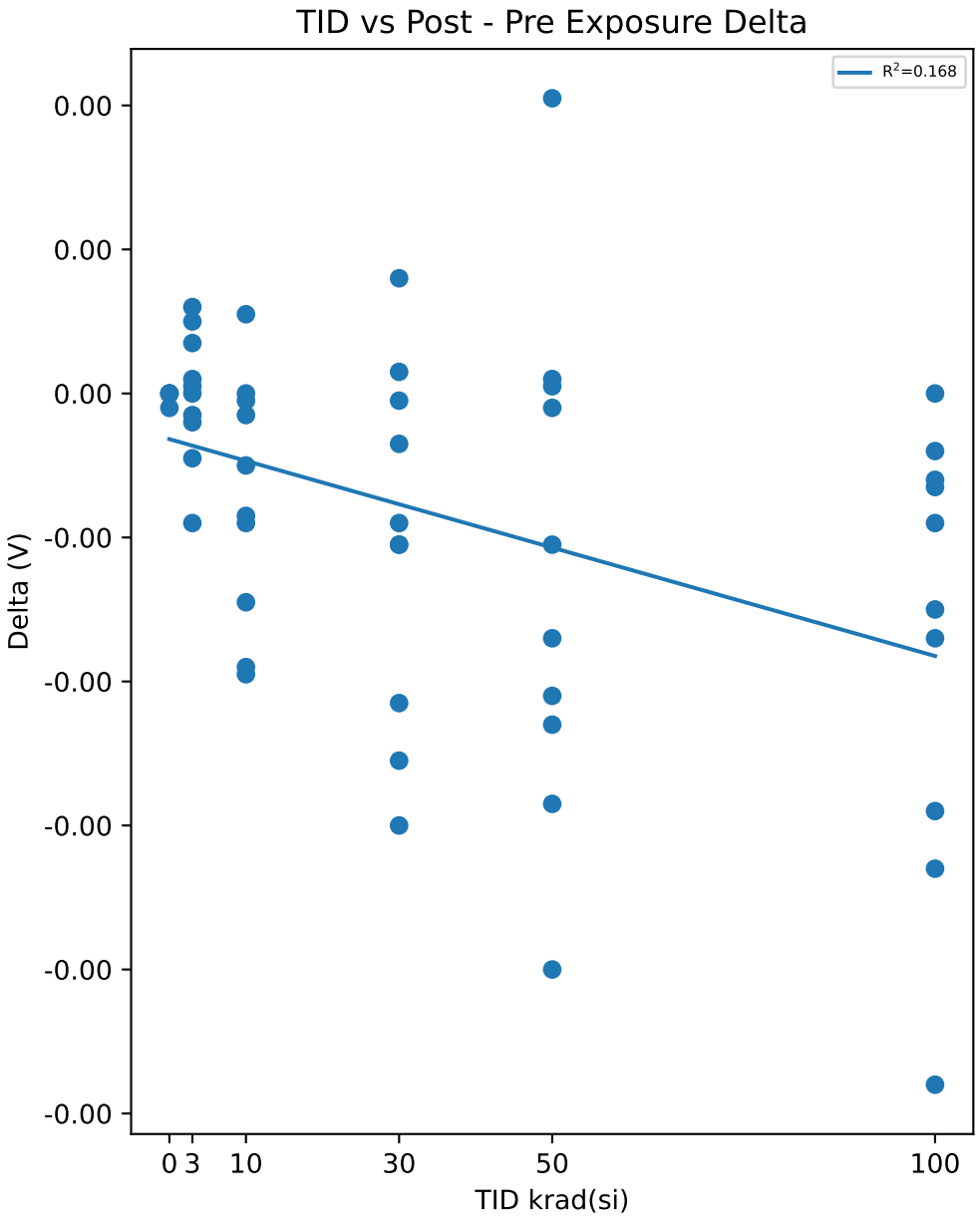
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.2508	0.2553	0.0045
2	3	HDR BIAS	1.3848	1.4211	0.0363
3	3	HDR BIAS	1.3109	1.2947	-0.0162
4	3	HDR BIAS	0.3605	0.3553	-0.0052
5	3	HDR BIAS	1.6153	1.6031	-0.0122
6	3	HDR UNBIAS	1.5335	1.5296	-0.0039
7	3	HDR UNBIAS	-0.0974	-0.1026	-0.0052
8	3	HDR UNBIAS	0.2125	0.221	0.0085
9	3	HDR UNBIAS	1.1532	1.1502	-0.003
10	3	HDR UNBIAS	0.127	0.122	-0.005
11	10	HDR BIAS	1.1402	1.1828	0.0426
12	10	HDR BIAS	2.5939	2.572	-0.0219
13	10	HDR BIAS	1.5856	1.6249	0.0393
14	10	HDR BIAS	0.9685	0.9871	0.0186
15	10	HDR BIAS	0.4485	0.4435	-0.005
16	10	HDR UNBIAS	2.0249	2.035	0.0101
17	10	HDR UNBIAS	1.333	1.3134	-0.0196
18	10	HDR UNBIAS	1.4891	1.4796	-0.0095
19	10	HDR UNBIAS	1.0992	1.095	-0.0042
20	10	HDR UNBIAS	0.3208	0.308	-0.0128
31	30	HDR BIAS	-0.0726	-0.0653	0.0073
32	30	HDR BIAS	0.8704	0.91	0.0396
33	30	HDR BIAS	0.144	0.1043	-0.0397
34	30	HDR BIAS	0.9294	0.9758	0.0464
35	30	HDR BIAS	1.0517	1.0541	0.0024
36	30	HDR UNBIAS	1.562	1.5544	-0.0076
37	30	HDR UNBIAS	0.5606	0.5304	-0.0302
38	30	HDR UNBIAS	-0.8749	-0.866	0.0089
39	30	HDR UNBIAS	-0.4691	-0.5017	-0.0326
40	30	HDR UNBIAS	0.8119	0.8338	0.0219
41	50	HDR BIAS	2.1065	2.2307	0.1242
42	50	HDR BIAS	1.4974	1.4786	-0.0188
43	50	HDR BIAS	2.1442	2.1576	0.0134
44	50	HDR BIAS	1.4053	1.464	0.0587
45	50	HDR BIAS	1.273	1.2967	0.0237
46	50	HDR UNBIAS	0.8422	0.7569	-0.0853
47	50	HDR UNBIAS	1.5706	1.6186	0.048
48	50	HDR UNBIAS	1.3898	1.3727	-0.0171
49	50	HDR UNBIAS	1.9478	1.9886	0.0408
50	50	HDR UNBIAS	-0.2854	-0.1577	0.1277
51	100	HDR BIAS	0.4312	0.506	0.0748
52	100	HDR BIAS	1.6164	1.7002	0.0838
53	100	HDR BIAS	0.6137	0.6296	0.0159
54	100	HDR BIAS	1.3617	1.3981	0.0364
55	100	HDR BIAS	1.1183	1.1355	0.0172
56	100	HDR UNBIAS	1.0514	1.0658	0.0144
57	100	HDR UNBIAS	1.2042	1.1857	-0.0185
58	100	HDR UNBIAS	-0.0218	0.0757	0.0975
59	100	HDR UNBIAS	0.0776	0.1105	0.0329
60	100	HDR UNBIAS	0.6367	0.7067	0.07
91	0	CORRELATION	2.1743	2.1651	-0.0092
92	0	CORRELATION	0.654	0.6402	-0.0138
93	0	CORRELATION	0.2833	0.276	-0.0073
94	0	CORRELATION	1.1616	1.1529	-0.0087

Test Statistics (mV)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2833	1.0683	2.1743	0.82053	0.276	1.0585	2.1651	0.82072	-0.0138	-0.00975	-0.0073	0.0028172
3	-0.0974	0.78511	1.6153	0.66887	-0.1026	0.78497	1.6031	0.66935	-0.0162	-0.00014	0.0363	0.014623
10	0.3208	1.3004	2.5939	0.68131	0.308	1.3041	2.572	0.68047	-0.0219	0.00376	0.0426	0.023157
30	-0.8749	0.45134	1.562	0.75389	-0.866	0.45298	1.5544	0.76369	-0.0397	0.00164	0.0464	0.029666
50	-0.2854	1.3891	2.1442	0.71168	-0.1577	1.4207	2.2307	0.70834	-0.0853	0.03153	0.1277	0.064867
100	-0.0218	0.80894	1.6164	0.5481	0.0757	0.85138	1.7002	0.53726	-0.0185	0.04244	0.0975	0.037294

Device Test: 19.50 VOLTAGE|VREF//8/8/0/1000/5/100kHz//@VREF_25C





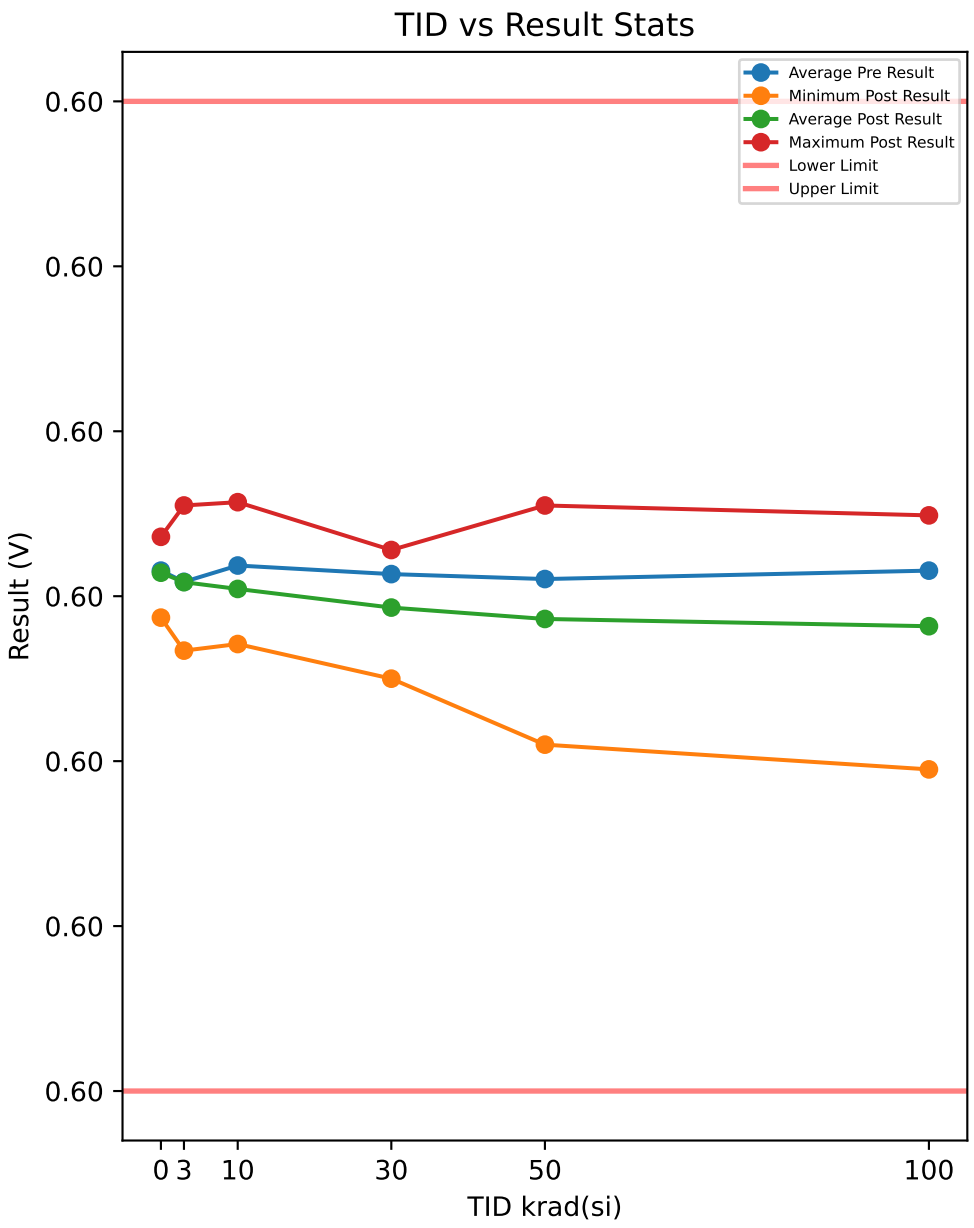
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

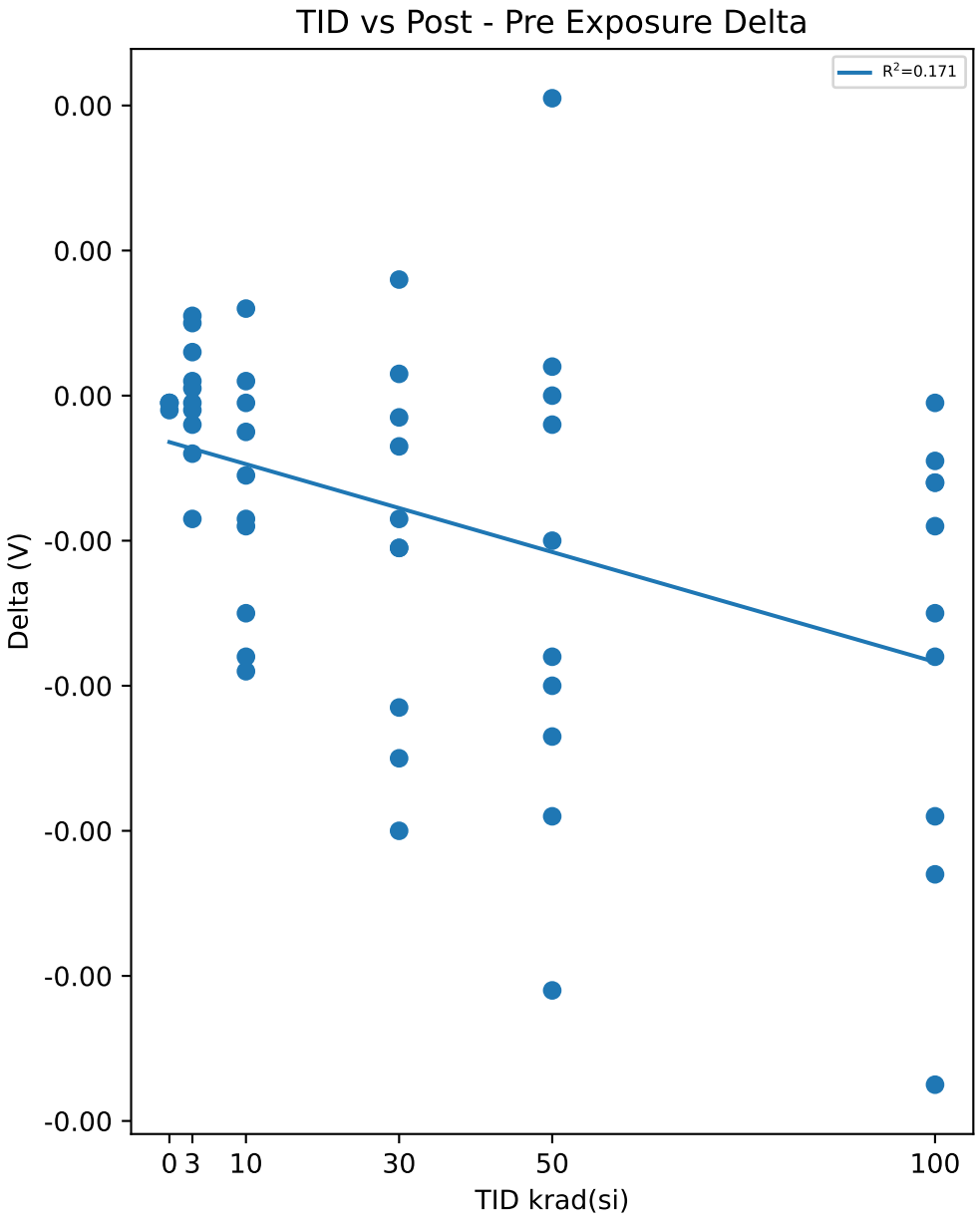
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.6	0.59996	-4e-05
2	3	HDR BIAS	0.60045	0.60052	7e-05
3	3	HDR BIAS	0.59991	0.60001	0.0001
4	3	HDR BIAS	0.60038	0.6005	0.00012
5	3	HDR BIAS	0.59971	0.59962	-9e-05
6	3	HDR UNBIAS	0.59983	0.59983	0
7	3	HDR UNBIAS	0.60016	0.59998	-0.00018
8	3	HDR UNBIAS	0.6003	0.60027	-3e-05
9	3	HDR UNBIAS	0.59987	0.59988	1e-05
10	3	HDR UNBIAS	0.59984	0.59986	2e-05
11	10	HDR BIAS	0.60041	0.60052	0.00011
12	10	HDR BIAS	0.60004	0.59966	-0.00038
13	10	HDR BIAS	0.59992	0.59992	0
14	10	HDR BIAS	0.60032	0.60022	-0.0001
15	10	HDR BIAS	0.60016	0.60013	-3e-05
16	10	HDR UNBIAS	0.60022	0.59993	-0.00029
17	10	HDR UNBIAS	0.6001	0.59971	-0.00039
18	10	HDR UNBIAS	0.60007	0.59989	-0.00018
19	10	HDR UNBIAS	0.60035	0.60034	-1e-05
20	10	HDR UNBIAS	0.59986	0.59969	-0.00017
31	30	HDR BIAS	0.60024	0.60023	-1e-05
32	30	HDR BIAS	0.6002	0.5996	-0.0006
33	30	HDR BIAS	0.60028	0.60021	-7e-05
34	30	HDR BIAS	0.60045	0.60024	-0.00021
35	30	HDR BIAS	0.59992	0.59971	-0.00021
36	30	HDR UNBIAS	0.59987	0.60003	0.00016
37	30	HDR UNBIAS	0.59992	0.59949	-0.00043
38	30	HDR UNBIAS	0.60004	0.60007	3e-05
39	30	HDR UNBIAS	0.59997	0.59946	-0.00051
40	30	HDR UNBIAS	0.60003	0.59985	-0.00018
41	50	HDR BIAS	0.6001	0.60051	0.00041
42	50	HDR BIAS	0.60006	0.59964	-0.00042
43	50	HDR BIAS	0.60005	0.59959	-0.00046
44	50	HDR BIAS	0.59988	0.59931	-0.00057
45	50	HDR BIAS	0.59974	0.59953	-0.00021
46	50	HDR UNBIAS	0.60047	0.60013	-0.00034
47	50	HDR UNBIAS	0.60021	0.60019	-2e-05
48	50	HDR UNBIAS	0.59987	0.59907	-0.0008
49	50	HDR UNBIAS	0.60041	0.60042	1e-05
50	50	HDR UNBIAS	0.59983	0.59985	2e-05
51	100	HDR BIAS	0.59986	0.5989	-0.00096
52	100	HDR BIAS	0.59974	0.59962	-0.00012
53	100	HDR BIAS	0.6005	0.59992	-0.00058
54	100	HDR BIAS	0.60008	0.59942	-0.00066
55	100	HDR BIAS	0.60022	0.59992	-0.0003
56	100	HDR UNBIAS	0.59975	0.59975	0
57	100	HDR UNBIAS	0.60022	0.60004	-0.00018
58	100	HDR UNBIAS	0.59981	0.59947	-0.00034
59	100	HDR UNBIAS	0.60042	0.60029	-0.00013
60	100	HDR UNBIAS	0.60054	0.60046	-8e-05
91	0	CORRELATION	0.60031	0.60031	0
92	0	CORRELATION	0.60023	0.60021	-2e-05
93	0	CORRELATION	0.59983	0.59983	0
94	0	CORRELATION	0.60006	0.60006	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59983	0.60011	0.60031	0.00021235	0.59983	0.6001	0.60031	0.00020871	-2e-05	-5e-06	0	1e-05
3	0.59971	0.60004	0.60045	0.00025945	0.59962	0.60004	0.60052	0.00029519	-0.00018	-2e-06	0.00012	8.9914e-05
10	0.59986	0.60015	0.60041	0.00018235	0.59966	0.6	0.60052	0.00029259	-0.00039	-0.000144	0.00011	0.00016919
30	0.59987	0.60009	0.60045	0.0001906	0.59946	0.59989	0.60024	0.00030831	-0.0006	-0.000203	0.00016	0.00024608
50	0.59974	0.60006	0.60047	0.00024462	0.59907	0.59982	0.60051	0.00047864	-0.0008	-0.000238	0.00041	0.000352
100	0.59974	0.60011	0.60054	0.00031217	0.5989	0.59978	0.60046	0.0004541	-0.00096	-0.000335	0	0.00030678

Device Test: 19.52 VOLTAGE|VREF//8/8/0/1000/5/500kHz//@VREF_25C





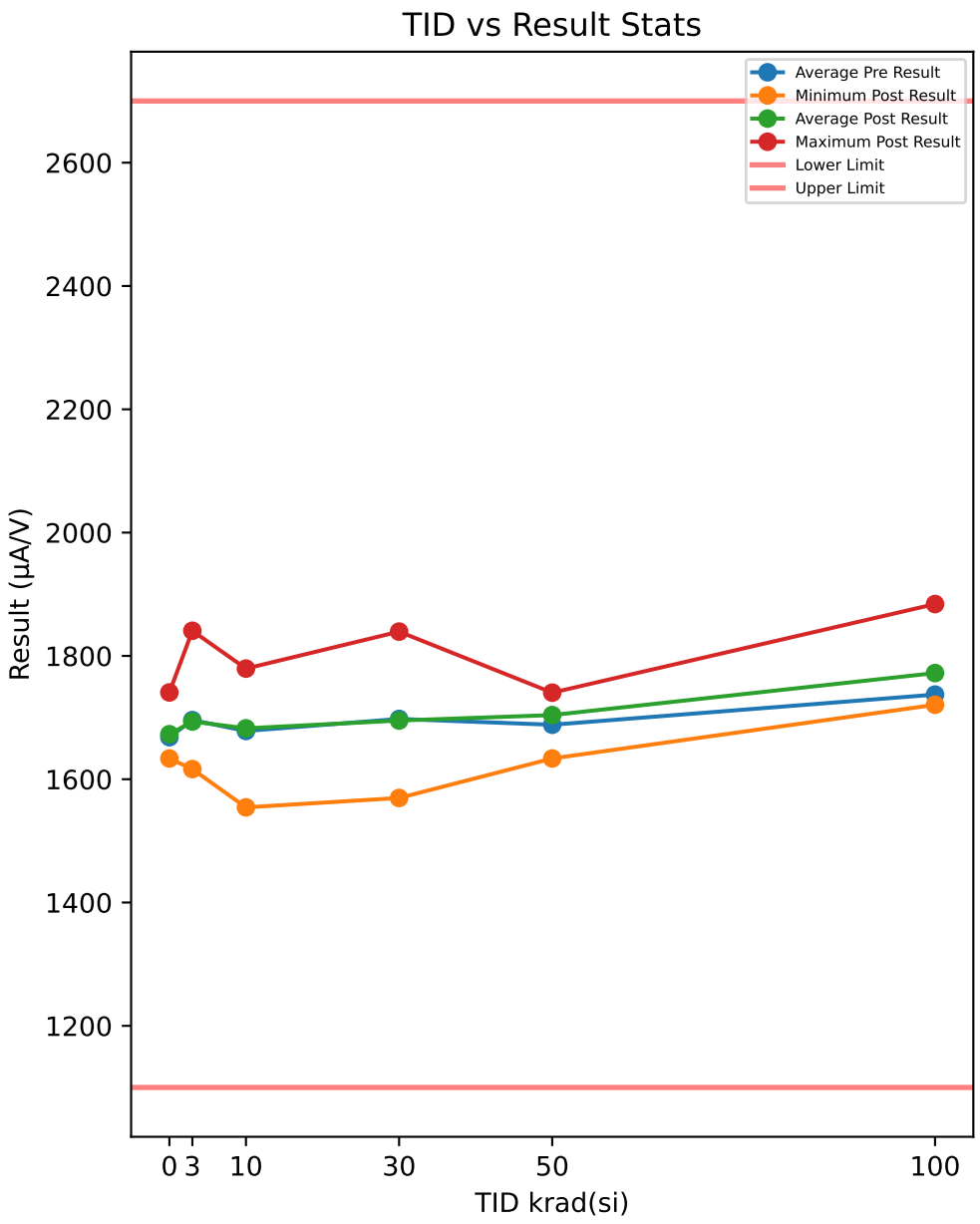
Test Results (Lower Limit = 0.597, Upper Limit = 0.603 (V))

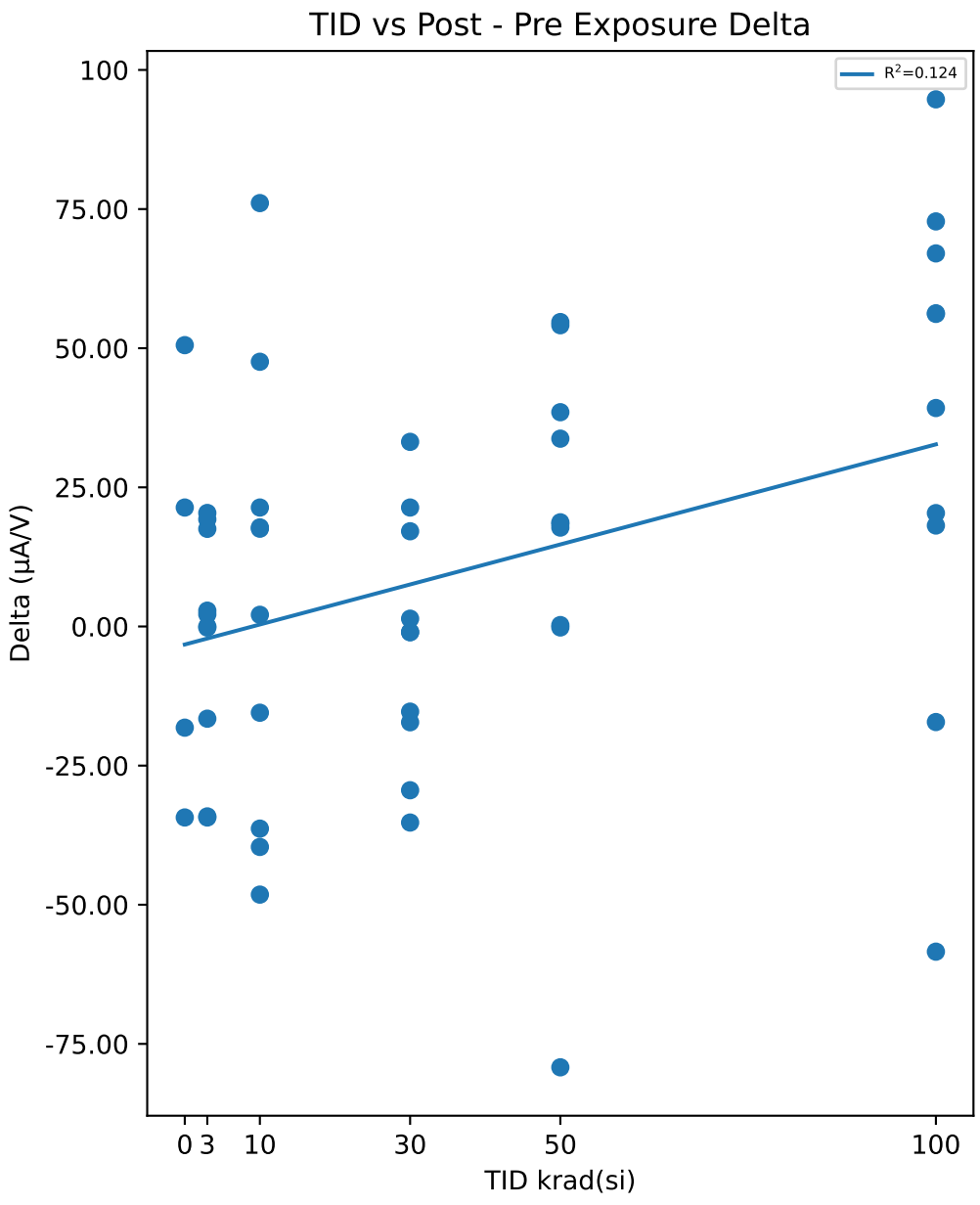
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.60004	0.60002	-2e-05
2	3	HDR BIAS	0.60049	0.60055	6e-05
3	3	HDR BIAS	0.59996	0.60006	0.0001
4	3	HDR BIAS	0.60043	0.60054	0.00011
5	3	HDR BIAS	0.59975	0.59967	-8e-05
6	3	HDR UNBIAS	0.59988	0.59987	-1e-05
7	3	HDR UNBIAS	0.6002	0.60003	-0.00017
8	3	HDR UNBIAS	0.60034	0.6003	-4e-05
9	3	HDR UNBIAS	0.59991	0.59992	1e-05
10	3	HDR UNBIAS	0.59987	0.59989	2e-05
11	10	HDR BIAS	0.60045	0.60057	0.00012
12	10	HDR BIAS	0.60007	0.59971	-0.00036
13	10	HDR BIAS	0.59995	0.59997	2e-05
14	10	HDR BIAS	0.60037	0.60026	-0.00011
15	10	HDR BIAS	0.60021	0.60016	-5e-05
16	10	HDR UNBIAS	0.60027	0.59997	-0.0003
17	10	HDR UNBIAS	0.60014	0.59976	-0.00038
18	10	HDR UNBIAS	0.6001	0.59993	-0.00017
19	10	HDR UNBIAS	0.60039	0.60038	-1e-05
20	10	HDR UNBIAS	0.59991	0.59973	-0.00018
31	30	HDR BIAS	0.60029	0.60026	-3e-05
32	30	HDR BIAS	0.60024	0.59964	-0.0006
33	30	HDR BIAS	0.60033	0.60026	-7e-05
34	30	HDR BIAS	0.60049	0.60028	-0.00021
35	30	HDR BIAS	0.59996	0.59975	-0.00021
36	30	HDR UNBIAS	0.59991	0.60007	0.00016
37	30	HDR UNBIAS	0.59997	0.59954	-0.00043
38	30	HDR UNBIAS	0.60009	0.60012	3e-05
39	30	HDR UNBIAS	0.6	0.5995	-0.0005
40	30	HDR UNBIAS	0.60006	0.59989	-0.00017
41	50	HDR BIAS	0.60014	0.60055	0.00041
42	50	HDR BIAS	0.60009	0.59969	-0.0004
43	50	HDR BIAS	0.60009	0.59962	-0.00047
44	50	HDR BIAS	0.59994	0.59936	-0.00058
45	50	HDR BIAS	0.59978	0.59958	-0.0002
46	50	HDR UNBIAS	0.60051	0.60015	-0.00036
47	50	HDR UNBIAS	0.60026	0.60022	-4e-05
48	50	HDR UNBIAS	0.59992	0.5991	-0.00082
49	50	HDR UNBIAS	0.60043	0.60047	4e-05
50	50	HDR UNBIAS	0.59988	0.59988	0
51	100	HDR BIAS	0.5999	0.59895	-0.00095
52	100	HDR BIAS	0.59978	0.59966	-0.00012
53	100	HDR BIAS	0.60053	0.59995	-0.00058
54	100	HDR BIAS	0.60012	0.59946	-0.00066
55	100	HDR BIAS	0.60027	0.59997	-0.0003
56	100	HDR UNBIAS	0.5998	0.59979	-1e-05
57	100	HDR UNBIAS	0.60026	0.60008	-0.00018
58	100	HDR UNBIAS	0.59986	0.5995	-0.00036
59	100	HDR UNBIAS	0.60045	0.60033	-0.00012
60	100	HDR UNBIAS	0.60058	0.60049	-9e-05
91	0	CORRELATION	0.60037	0.60036	-1e-05
92	0	CORRELATION	0.60027	0.60025	-2e-05
93	0	CORRELATION	0.59988	0.59987	-1e-05
94	0	CORRELATION	0.6001	0.60009	-1e-05

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59988	0.60015	0.60037	0.00021455	0.59987	0.60014	0.60036	0.00021282	-2e-05	-1.25e-05	-1e-05	5e-06
3	0.59975	0.60009	0.60049	0.00026034	0.59967	0.60008	0.60055	0.00029079	-0.00017	-2e-06	0.00011	8.4037e-05
10	0.59991	0.60019	0.60045	0.00018488	0.59971	0.60004	0.60057	0.00029144	-0.00038	-0.000142	0.00012	0.00016772
30	0.59991	0.60013	0.60049	0.00019248	0.5995	0.59993	0.60028	0.00030752	-0.0006	-0.000203	0.00016	0.00024318
50	0.59978	0.6001	0.60051	0.00023876	0.5991	0.59986	0.60055	0.00047781	-0.00082	-0.000242	0.00041	0.00035668
100	0.59978	0.60015	0.60058	0.00030776	0.59895	0.59982	0.60049	0.00045109	-0.00095	-0.000337	-1e-05	0.00030328

Device Test: 19.9 LEVEL|TRANSCONDUCTANCE//12/12/0/0/5/500kHz//@EA_GM





Test Results (Lower Limit = 1100.0, Upper Limit = 2700.0 (µA/V))

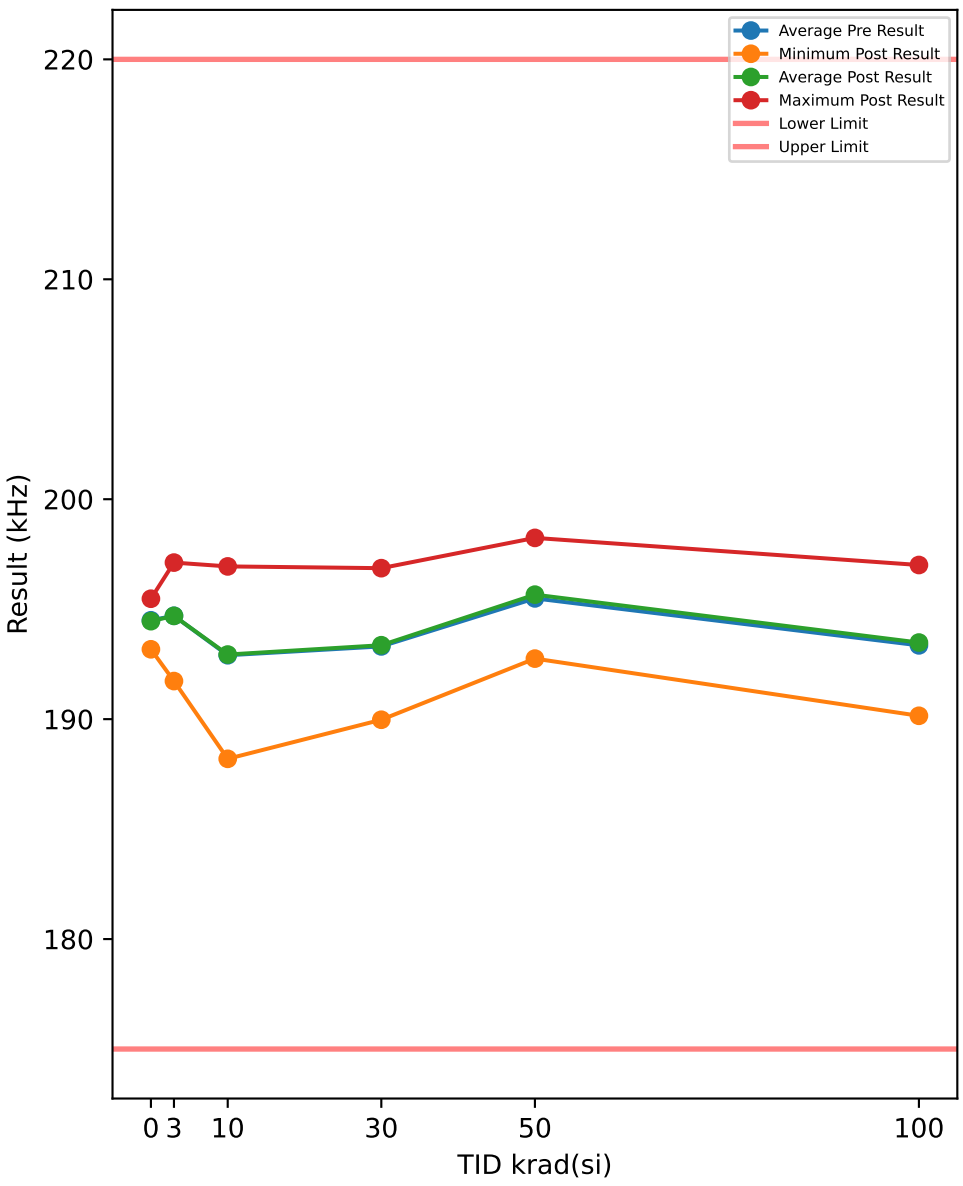
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1701.1	1721.5	20.395
2	3	HDR BIAS	1668	1633.8	-34.127
3	3	HDR BIAS	1650.7	1668.2	17.546
4	3	HDR BIAS	1701.1	1684.5	-16.567
5	3	HDR BIAS	1759.6	1778.9	19.254
6	3	HDR UNBIAS	1633.8	1633.8	0.0159
7	3	HDR UNBIAS	1837.9	1840.8	2.8434
8	3	HDR UNBIAS	1650.8	1616.4	-34.322
9	3	HDR UNBIAS	1740.4	1740.2	-0.1985
10	3	HDR UNBIAS	1615.2	1617.3	2.1799
11	10	HDR BIAS	1668	1685.8	17.807
12	10	HDR BIAS	1779.1	1739.4	-39.611
13	10	HDR BIAS	1719.4	1721.5	2.0994
14	10	HDR BIAS	1721.8	1685.4	-36.323
15	10	HDR BIAS	1703.3	1779.4	76.076
16	10	HDR UNBIAS	1648.5	1600.3	-48.178
17	10	HDR UNBIAS	1569.8	1554.3	-15.497
18	10	HDR UNBIAS	1667.9	1685.4	17.568
19	10	HDR UNBIAS	1719.4	1740.7	21.372
20	10	HDR UNBIAS	1585.4	1632.9	47.565
31	30	HDR BIAS	1719.4	1740.7	21.372
32	30	HDR BIAS	1721.8	1720.7	-1.0331
33	30	HDR BIAS	1617.3	1650.5	33.174
34	30	HDR BIAS	1683.2	1667.9	-15.302
35	30	HDR BIAS	1703.4	1668.2	-35.231
36	30	HDR UNBIAS	1840.4	1839.4	-0.9988
37	30	HDR UNBIAS	1599	1569.6	-29.425
38	30	HDR UNBIAS	1650.8	1667.9	17.108
39	30	HDR UNBIAS	1685.4	1668.2	-17.211
40	30	HDR UNBIAS	1757.2	1758.6	1.3998
41	50	HDR BIAS	1721.8	1740.2	18.412
42	50	HDR BIAS	1721.7	1740.4	18.717
43	50	HDR BIAS	1631.6	1685.8	54.127
44	50	HDR BIAS	1650.8	1684.5	33.746
45	50	HDR BIAS	1633.8	1633.6	-0.175
46	50	HDR UNBIAS	1683.2	1721.7	38.501
47	50	HDR UNBIAS	1650.8	1651	0.2518
48	50	HDR UNBIAS	1721.7	1739.4	17.77
49	50	HDR UNBIAS	1648.5	1703.2	54.697
50	50	HDR UNBIAS	1819.6	1740.4	-79.211
51	100	HDR BIAS	1779	1799.4	20.369
52	100	HDR BIAS	1683.2	1739.4	56.27
53	100	HDR BIAS	1759.6	1798.9	39.252
54	100	HDR BIAS	1703.3	1759.5	56.164
55	100	HDR BIAS	1817.1	1884.1	67.033
56	100	HDR UNBIAS	1779.2	1720.7	-58.43
57	100	HDR UNBIAS	1703.3	1721.5	18.142
58	100	HDR UNBIAS	1776.7	1759.5	-17.17
59	100	HDR UNBIAS	1668	1740.7	72.781
60	100	HDR UNBIAS	1703.3	1798.1	94.718
91	0	CORRELATION	1668	1633.6	-34.318
92	0	CORRELATION	1617.3	1667.9	50.55
93	0	CORRELATION	1719.4	1740.7	21.372
94	0	CORRELATION	1668	1649.8	-18.181

Test Statistics (µA/V)

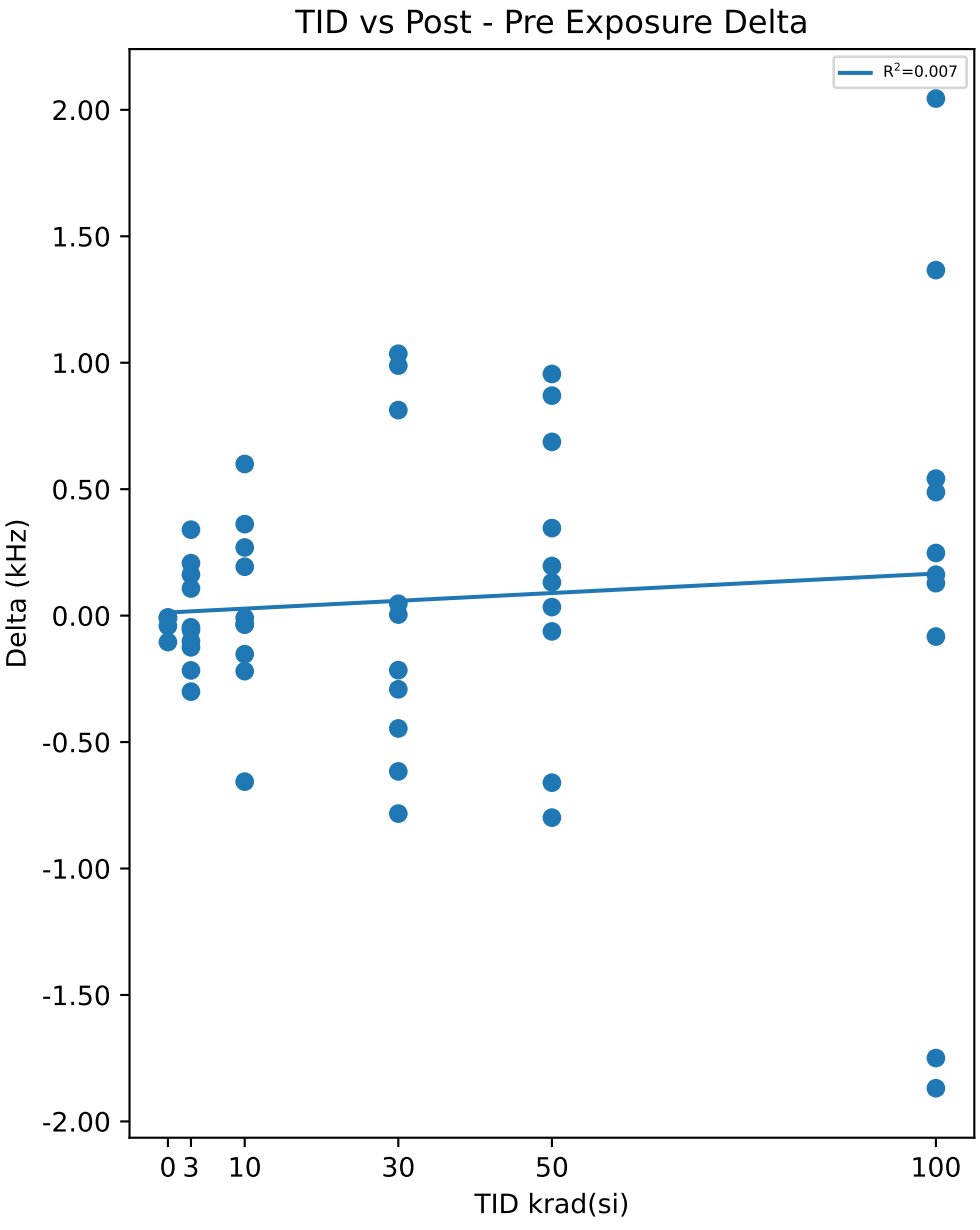
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1617.3	1668.2	1719.4	41.663	1633.6	1673	1740.7	47.271	-34.318	4.8556	50.55	38.41
3	1615.2	1695.8	1837.9	67.908	1616.4	1693.5	1840.8	75.66	-34.322	-2.2981	20.395	20.198
10	1569.8	1678.2	1779.1	64.588	1554.3	1682.5	1779.4	69.293	-48.178	4.2879	76.076	40.004
30	1599	1697.8	1840.4	69.719	1569.6	1695.2	1839.4	73.23	-35.231	-2.6148	33.174	22.169
50	1631.6	1688.3	1819.6	58.873	1633.6	1704	1740.4	39.434	-79.211	15.684	54.697	38.532
100	1668	1737.3	1817.1	50.665	1720.7	1772.2	1884.1	49.716	-58.43	34.913	94.718	45.81

Device Test: 20.101 LEVEL|FREQ/RT/8/8/0/0/5/200kHz//@FSW_EXT_RT_B

TID vs Result Stats



TID vs Post - Pre Exposure Delta



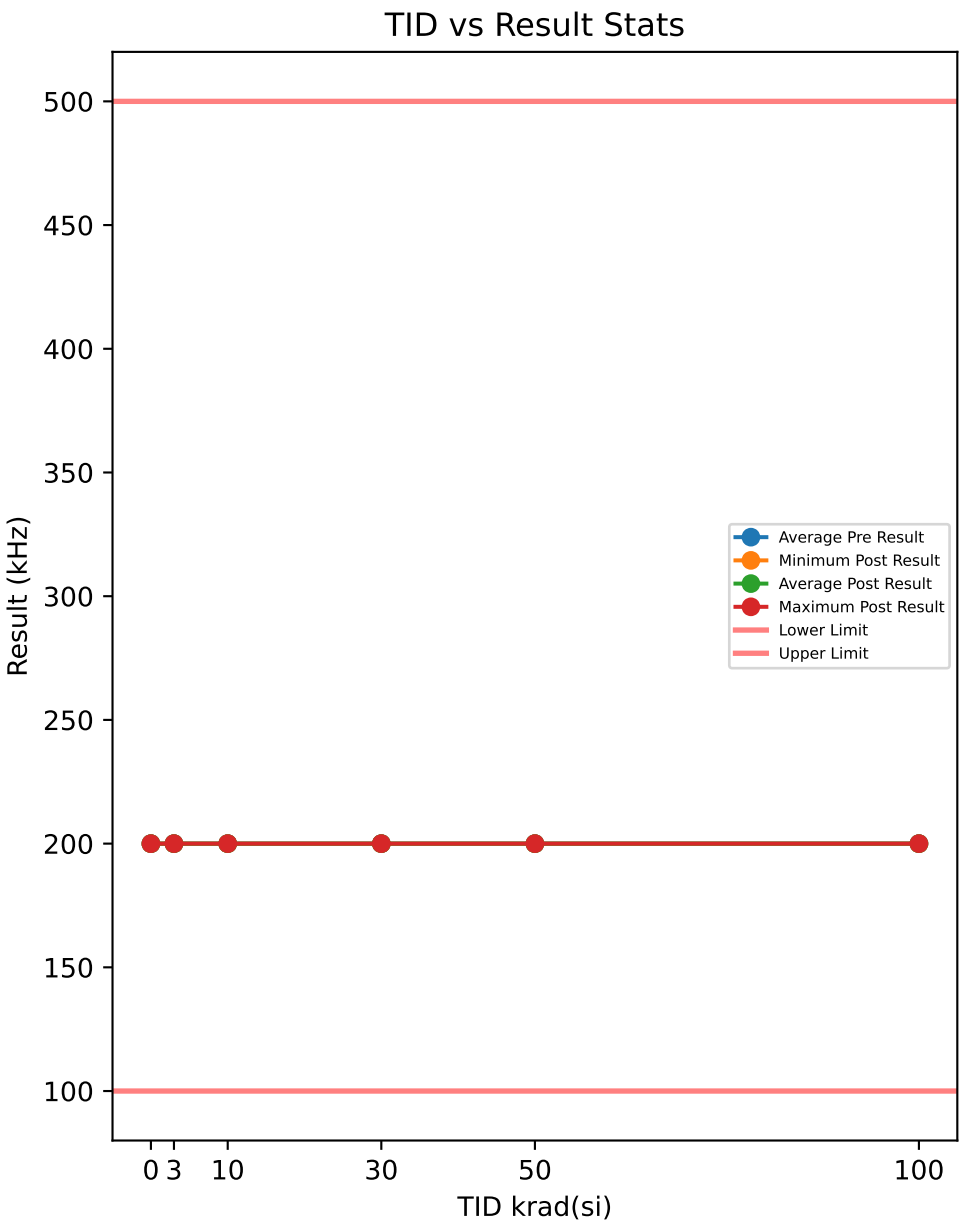
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

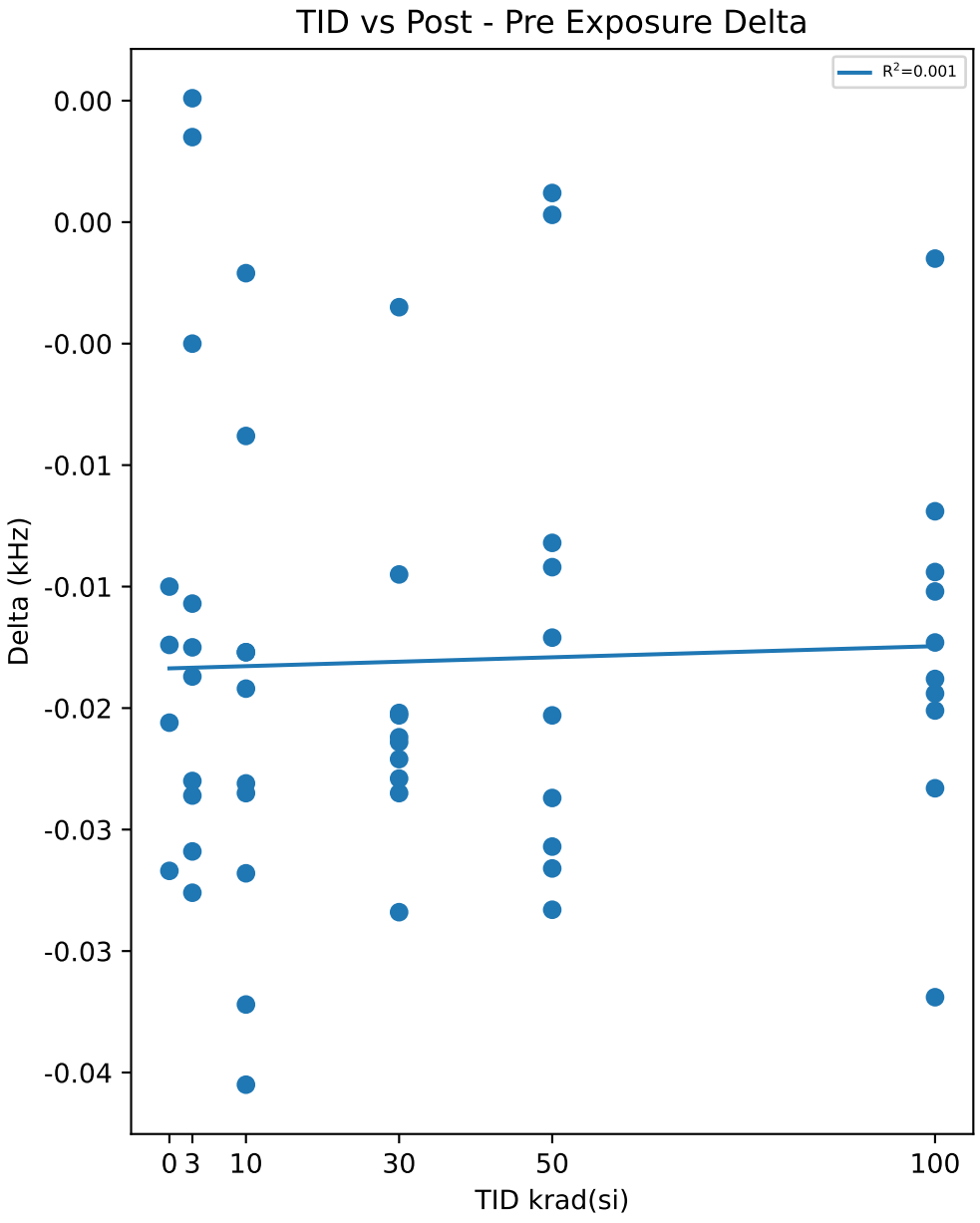
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	195.32	195.43	0.1073
2	3	HDR BIAS	194.6	194.3	-0.3006
3	3	HDR BIAS	197.16	197.12	-0.0462
4	3	HDR BIAS	194.25	194.59	0.3399
5	3	HDR BIAS	197.02	196.96	-0.0568
6	3	HDR UNBIAS	194.59	194.37	-0.2166
7	3	HDR UNBIAS	191.86	191.73	-0.1254
8	3	HDR UNBIAS	194.55	194.45	-0.1012
9	3	HDR UNBIAS	194.73	194.94	0.2075
10	3	HDR UNBIAS	192.9	193.06	0.1623
11	10	HDR BIAS	193.88	194.07	0.1933
12	10	HDR BIAS	193.19	193.79	0.5996
13	10	HDR BIAS	191.56	191.52	-0.0332
14	10	HDR BIAS	196.98	196.94	-0.0358
15	10	HDR BIAS	191.09	190.94	-0.1524
16	10	HDR UNBIAS	194.7	194.69	-0.009
17	10	HDR UNBIAS	187.93	188.2	0.2694
18	10	HDR UNBIAS	194.04	193.38	-0.6564
19	10	HDR UNBIAS	190.46	190.82	0.3618
20	10	HDR UNBIAS	195.24	195.02	-0.2196
31	30	HDR BIAS	191.55	192.36	0.8127
32	30	HDR BIAS	191.96	191.96	0.0041
33	30	HDR BIAS	190.76	189.97	-0.7828
34	30	HDR BIAS	192.77	192.48	-0.2913
35	30	HDR BIAS	193.19	192.98	-0.2156
36	30	HDR UNBIAS	195.31	194.86	-0.4462
37	30	HDR UNBIAS	193.53	194.57	1.0355
38	30	HDR UNBIAS	195	195.05	0.047
39	30	HDR UNBIAS	193.14	192.52	-0.616
40	30	HDR UNBIAS	195.88	196.86	0.9886
41	50	HDR BIAS	198.4	197.6	-0.7988
42	50	HDR BIAS	196.34	196.54	0.1962
43	50	HDR BIAS	198.21	198.24	0.0338
44	50	HDR BIAS	192.07	192.76	0.6871
45	50	HDR BIAS	192.81	192.75	-0.0623
46	50	HDR UNBIAS	196.76	197.11	0.3461
47	50	HDR UNBIAS	193.45	194.41	0.9556
48	50	HDR UNBIAS	195.29	194.63	-0.6606
49	50	HDR UNBIAS	194.55	195.42	0.8699
50	50	HDR UNBIAS	197.02	197.15	0.1316
51	100	HDR BIAS	196.76	197.01	0.2477
52	100	HDR BIAS	193.7	193.86	0.162
53	100	HDR BIAS	191.92	193.96	2.0446
54	100	HDR BIAS	191.89	192.02	0.1284
55	100	HDR BIAS	193.33	193.24	-0.0827
56	100	HDR UNBIAS	195.03	193.16	-1.8688
57	100	HDR UNBIAS	188.79	190.15	1.3662
58	100	HDR UNBIAS	192.51	193	0.4883
59	100	HDR UNBIAS	195.78	196.33	0.5417
60	100	HDR UNBIAS	193.84	192.09	-1.7495
91	0	CORRELATION	193.89	193.79	-0.1046
92	0	CORRELATION	195.39	195.38	-0.0092
93	0	CORRELATION	193.18	193.18	-0.0069
94	0	CORRELATION	195.52	195.48	-0.0408

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.18	194.5	195.52	1.145	193.18	194.45	195.48	1.1524	-0.1046	-0.040375	-0.0069	0.045525
3	191.86	194.7	197.16	1.6135	191.73	194.7	197.12	1.6126	-0.3006	-0.00298	0.3399	0.20137
10	187.93	192.91	196.98	2.656	188.2	192.94	196.94	2.5527	-0.6564	0.03177	0.5996	0.34881
30	190.76	193.31	195.88	1.6764	189.97	193.36	196.86	1.9695	-0.7828	0.0536	1.0355	0.66719
50	192.07	195.49	198.4	2.2223	192.75	195.66	198.24	1.9743	-0.7988	0.16986	0.9556	0.58771
100	188.79	193.36	196.76	2.2723	190.15	193.48	197.01	2.0123	-1.8688	0.12779	2.0446	1.2055

Device Test: 20.102 LEVEL|FREQ/SYNC/8/8/0/0/5/200kHz//@FREQ_SYNC_EXT_503X





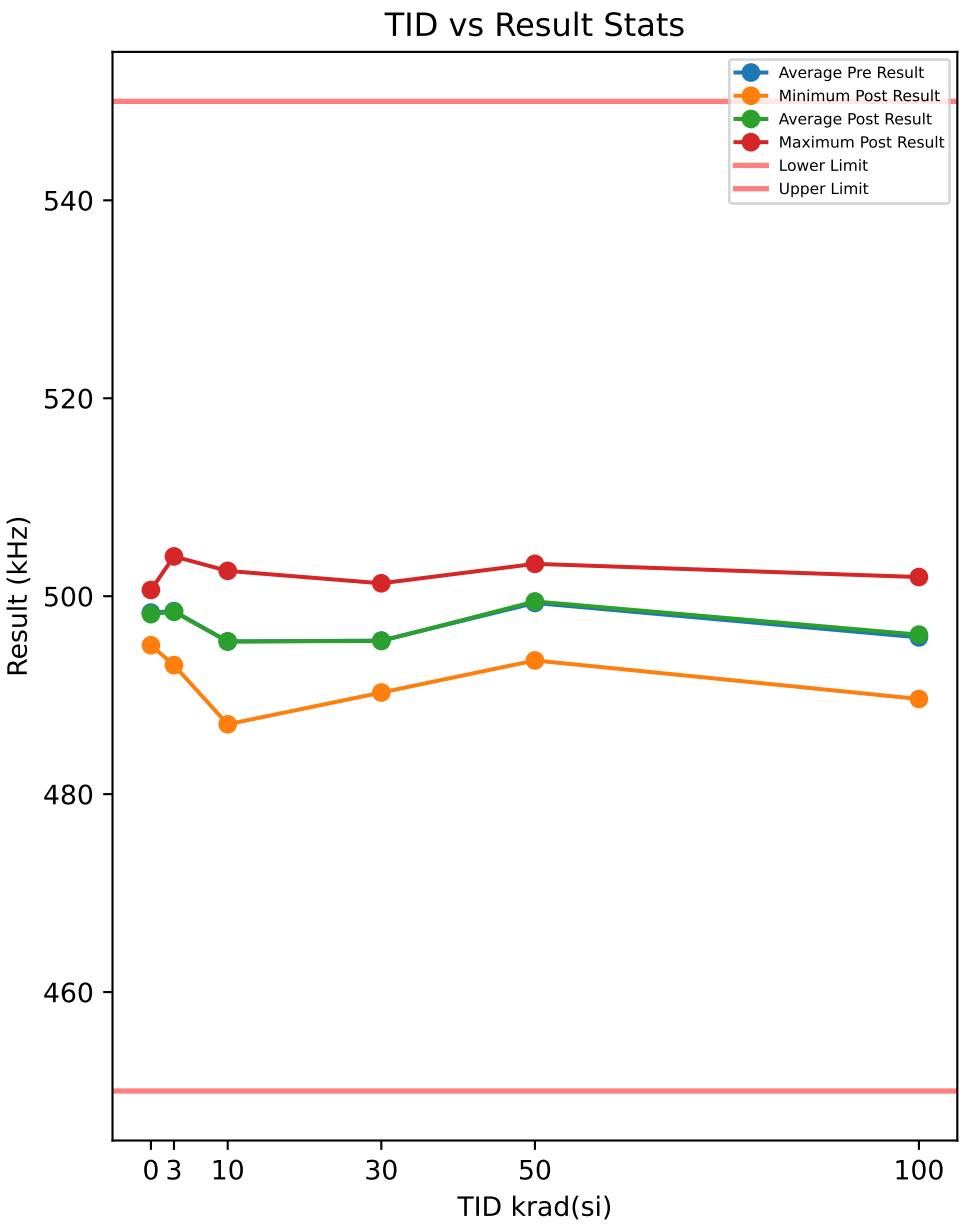
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

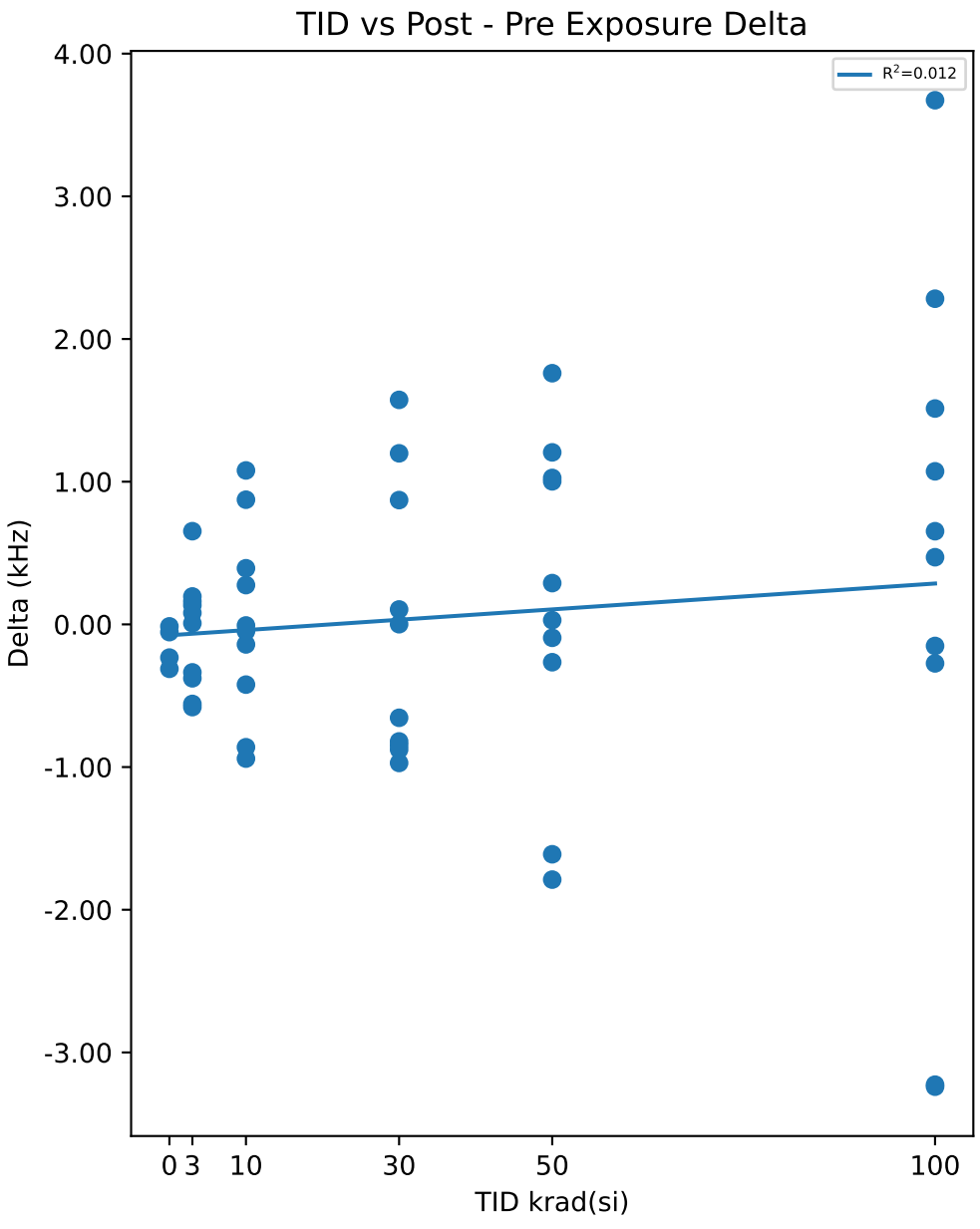
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	199.99	200	0.0051
2	3	HDR BIAS	200	199.97	-0.0236
3	3	HDR BIAS	200	199.97	-0.0276
4	3	HDR BIAS	200	199.98	-0.0157
5	3	HDR BIAS	200	200	-0.005
6	3	HDR UNBIAS	200	199.97	-0.023
7	3	HDR UNBIAS	199.99	199.98	-0.0175
8	3	HDR UNBIAS	200	199.98	-0.0259
9	3	HDR UNBIAS	200	200	0.0035
10	3	HDR UNBIAS	200	199.98	-0.0187
11	10	HDR BIAS	200	199.97	-0.0355
12	10	HDR BIAS	200	199.98	-0.0231
13	10	HDR BIAS	200	199.99	-0.0088
14	10	HDR BIAS	200	199.97	-0.0235
15	10	HDR BIAS	200	199.97	-0.0268
16	10	HDR UNBIAS	199.99	199.98	-0.0177
17	10	HDR UNBIAS	200	199.99	-0.0021
18	10	HDR UNBIAS	200	199.98	-0.0177
19	10	HDR UNBIAS	200	199.97	-0.0322
20	10	HDR UNBIAS	200	199.98	-0.0192
31	30	HDR BIAS	199.99	199.97	-0.0203
32	30	HDR BIAS	200	199.98	-0.0202
33	30	HDR BIAS	200	199.98	-0.0145
34	30	HDR BIAS	200	199.98	-0.0221
35	30	HDR BIAS	200	199.97	-0.0229
36	30	HDR UNBIAS	200	199.98	-0.0214
37	30	HDR UNBIAS	199.99	199.99	-0.0035
38	30	HDR UNBIAS	200	199.97	-0.0235
39	30	HDR UNBIAS	200	199.97	-0.0284
40	30	HDR UNBIAS	200	199.98	-0.0212
41	50	HDR BIAS	200	199.98	-0.0203
42	50	HDR BIAS	200	199.98	-0.0171
43	50	HDR BIAS	200	199.97	-0.0283
44	50	HDR BIAS	200	199.98	-0.0266
45	50	HDR BIAS	199.99	199.99	0.0012
46	50	HDR UNBIAS	199.99	199.98	-0.0132
47	50	HDR UNBIAS	200	199.98	-0.0257
48	50	HDR UNBIAS	200	199.98	-0.0142
49	50	HDR UNBIAS	199.99	199.99	0.0003
50	50	HDR UNBIAS	200	199.97	-0.0237
51	100	HDR BIAS	200	199.98	-0.0201
52	100	HDR BIAS	200	199.98	-0.0144
53	100	HDR BIAS	199.99	199.99	-0.0015
54	100	HDR BIAS	200	199.98	-0.0194
55	100	HDR BIAS	199.99	199.98	-0.0188
56	100	HDR UNBIAS	200	199.98	-0.0233
57	100	HDR UNBIAS	200	199.98	-0.0119
58	100	HDR UNBIAS	199.99	199.98	-0.0152
59	100	HDR UNBIAS	200	199.97	-0.0319
60	100	HDR UNBIAS	200	199.98	-0.0173
91	0	CORRELATION	200	199.97	-0.0267
92	0	CORRELATION	199.99	199.97	-0.0206
93	0	CORRELATION	199.99	199.97	-0.0174
94	0	CORRELATION	200	199.98	-0.015

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	199.99	200	200	0.0043332	199.97	199.98	199.98	0.003788	-0.0267	-0.019925	-0.015	0.0050658
3	199.99	200	200	0.0031502	199.97	199.98	200	0.012205	-0.0276	-0.01484	0.0051	0.011935
10	199.99	200	200	0.0029983	199.97	199.98	199.99	0.0084487	-0.0355	-0.02066	-0.0021	0.010055
30	199.99	200	200	0.0029141	199.97	199.98	199.99	0.0059633	-0.0284	-0.0198	-0.0035	0.0066772
50	199.99	200	200	0.0039124	199.97	199.98	199.99	0.0081032	-0.0283	-0.01676	0.0012	0.01056
100	199.99	200	200	0.0033921	199.97	199.98	199.99	0.0061696	-0.0319	-0.01738	-0.0015	0.0078543

Device Test: 20.103 LEVEL|FREQ/RT/8/8/0/0/5/500kHz//@FSW_EXT_RT_C





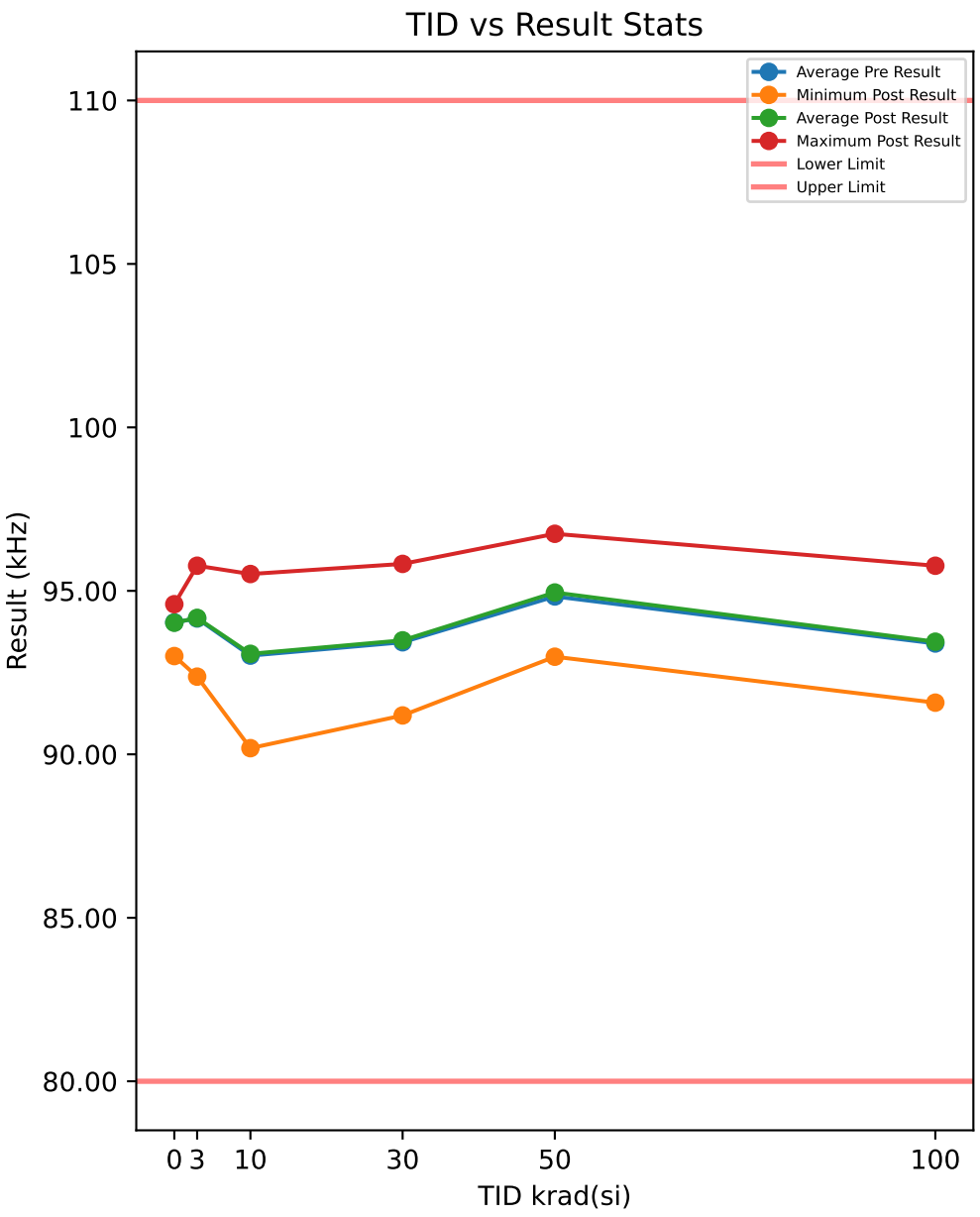
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

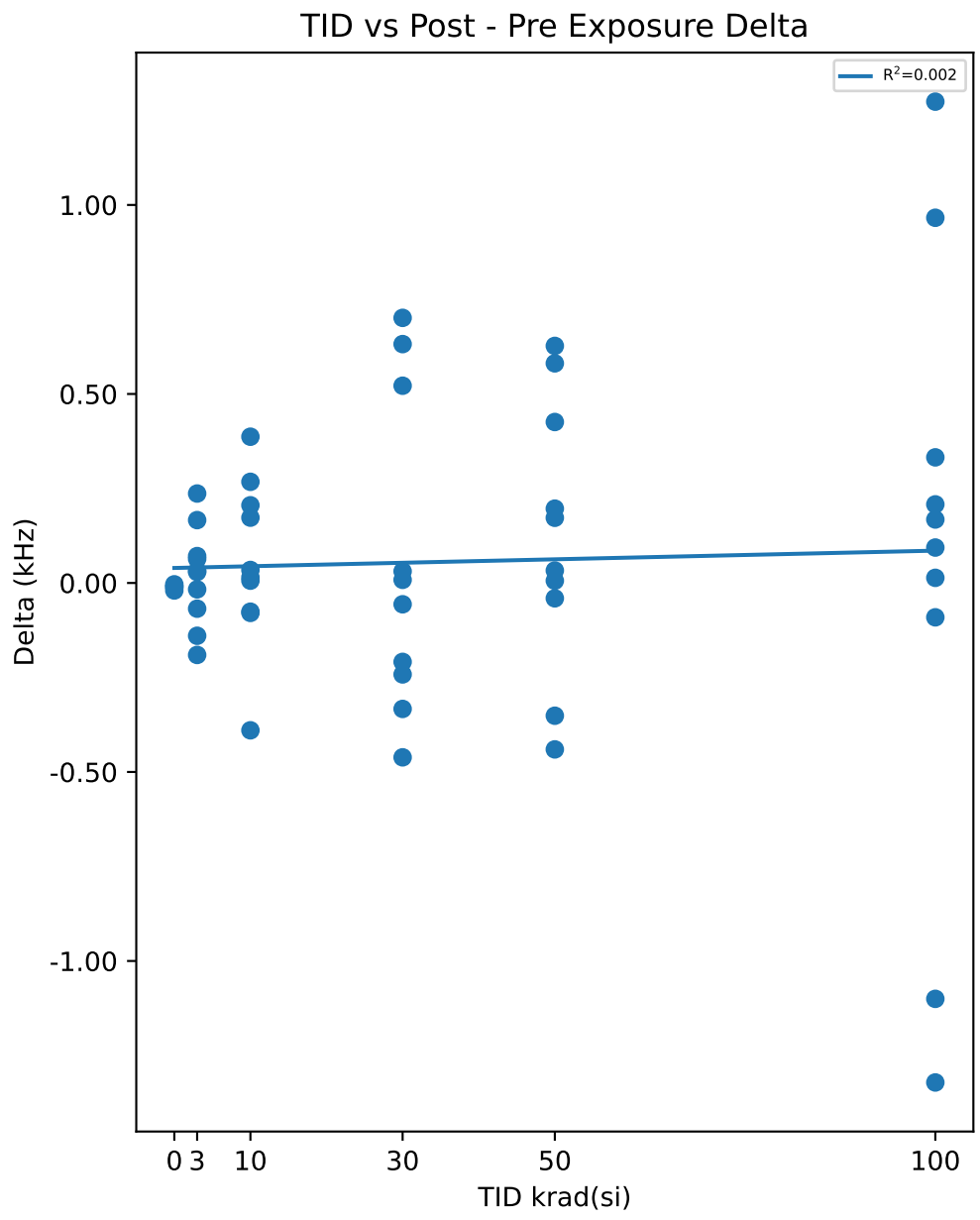
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	498.27	498.4	0.1342
2	3	HDR BIAS	498.65	498.07	-0.5797
3	3	HDR BIAS	503.86	504.02	0.162
4	3	HDR BIAS	496.83	497.03	0.1957
5	3	HDR BIAS	502.05	502.13	0.0804
6	3	HDR UNBIAS	498.74	498.4	-0.3363
7	3	HDR UNBIAS	493.41	493.03	-0.3779
8	3	HDR UNBIAS	498.58	498.02	-0.5575
9	3	HDR UNBIAS	498.51	499.16	0.6531
10	3	HDR UNBIAS	496	496.01	0.0081
11	10	HDR BIAS	497.67	497.94	0.2753
12	10	HDR BIAS	495.67	496.75	1.0789
13	10	HDR BIAS	494.27	494.13	-0.1405
14	10	HDR BIAS	502.56	502.56	-0.0076
15	10	HDR BIAS	491.08	491.03	-0.048
16	10	HDR UNBIAS	497.96	497.54	-0.4222
17	10	HDR UNBIAS	486.19	487.06	0.8738
18	10	HDR UNBIAS	497.37	496.43	-0.9406
19	10	HDR UNBIAS	491.88	492.28	0.3933
20	10	HDR UNBIAS	499.5	498.64	-0.861
31	30	HDR BIAS	491.91	493.11	1.1988
32	30	HDR BIAS	493.92	493.92	0.0012
33	30	HDR BIAS	491.14	490.26	-0.8772
34	30	HDR BIAS	494.72	493.87	-0.8472
35	30	HDR BIAS	494.43	493.78	-0.6546
36	30	HDR UNBIAS	500.14	499.32	-0.8203
37	30	HDR UNBIAS	494.22	495.8	1.5735
38	30	HDR UNBIAS	499.77	499.87	0.1046
39	30	HDR UNBIAS	494.46	493.49	-0.9712
40	30	HDR UNBIAS	500.43	501.3	0.8711
41	50	HDR BIAS	503.94	502.15	-1.7888
42	50	HDR BIAS	500.37	501.39	1.0263
43	50	HDR BIAS	503.53	503.27	-0.2652
44	50	HDR BIAS	492.51	493.51	1.0024
45	50	HDR BIAS	494.92	495.21	0.2893
46	50	HDR UNBIAS	502.91	502.94	0.0296
47	50	HDR UNBIAS	494.88	496.64	1.7603
48	50	HDR UNBIAS	499.75	498.14	-1.6112
49	50	HDR UNBIAS	498.26	499.47	1.2055
50	50	HDR UNBIAS	502.07	501.98	-0.0941
51	100	HDR BIAS	500.86	501.93	1.0727
52	100	HDR BIAS	495.4	495.12	-0.2734
53	100	HDR BIAS	493.71	497.39	3.6734
54	100	HDR BIAS	494.34	494.81	0.4706
55	100	HDR BIAS	496.06	495.91	-0.1512
56	100	HDR UNBIAS	497.53	494.31	-3.2258
57	100	HDR UNBIAS	487.33	489.62	2.2824
58	100	HDR UNBIAS	495.88	496.54	0.6529
59	100	HDR UNBIAS	499.68	501.19	1.5128
60	100	HDR UNBIAS	497.57	494.33	-3.2401
91	0	CORRELATION	495.06	495.04	-0.0139
92	0	CORRELATION	499.99	499.94	-0.0542
93	0	CORRELATION	497.37	497.14	-0.2328
94	0	CORRELATION	500.94	500.63	-0.3114

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	495.06	498.34	500.94	2.6595	495.04	498.19	500.63	2.5835	-0.3114	-0.15308	-0.0139	0.14209
3	493.41	498.49	503.86	2.9131	493.03	498.43	504.02	3.0319	-0.5797	-0.06179	0.6531	0.39161
10	486.19	495.42	502.56	4.7251	487.06	495.44	502.56	4.4167	-0.9406	0.02014	1.0789	0.66503
30	491.14	495.52	500.43	3.3818	490.26	495.47	501.3	3.5396	-0.9712	-0.04213	1.5735	0.95434
50	492.51	499.31	503.94	4.0472	493.51	499.47	503.27	3.4495	-1.7888	0.15541	1.7603	1.1704
100	487.33	495.84	500.86	3.73	489.62	496.12	501.93	3.5412	-3.2401	0.27743	3.6734	2.1864

Device Test: 20.107 LEVEL|FREQ/RT/8/8/0/1000/5/100kHz//@FSW_EXT_RT_A





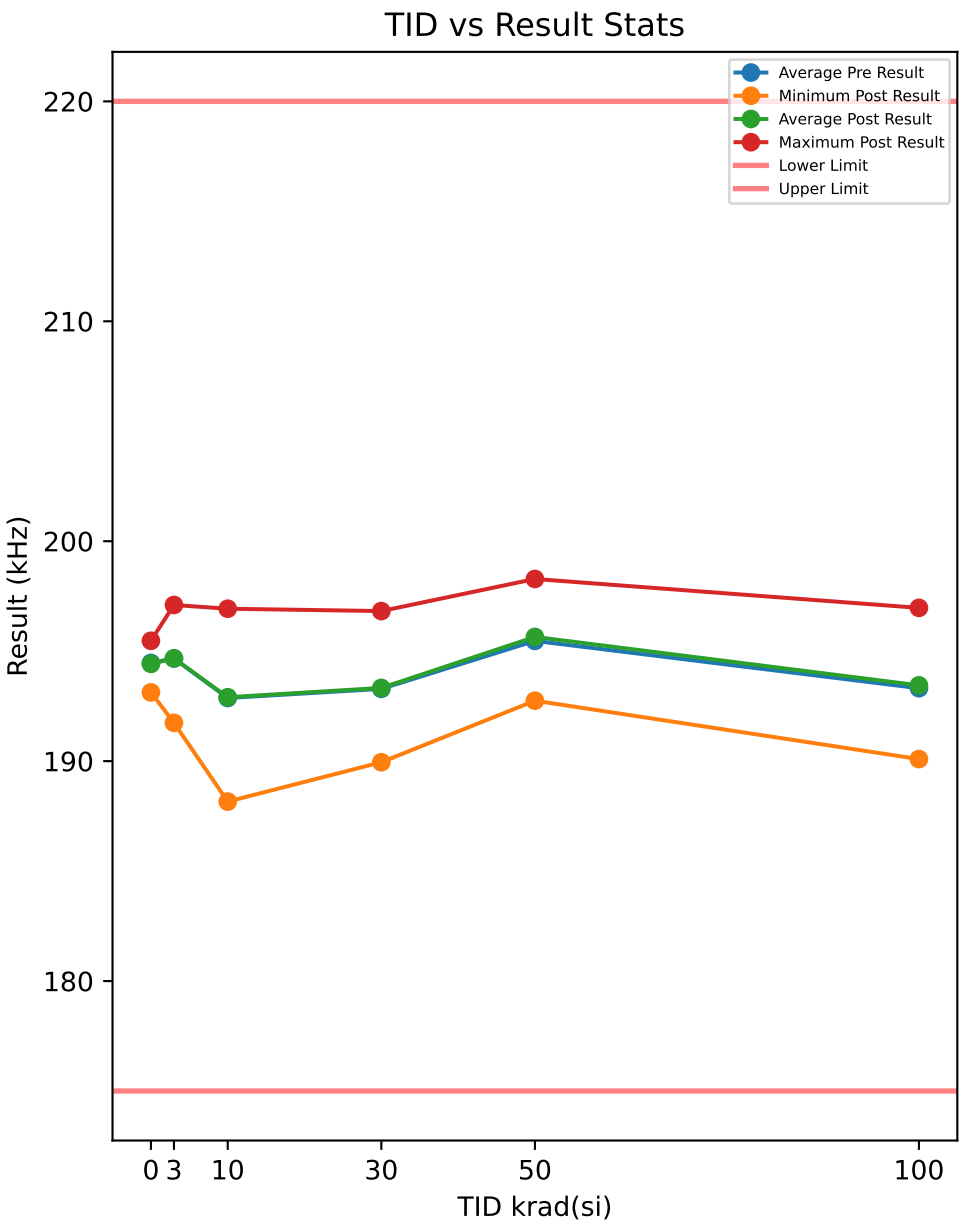
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

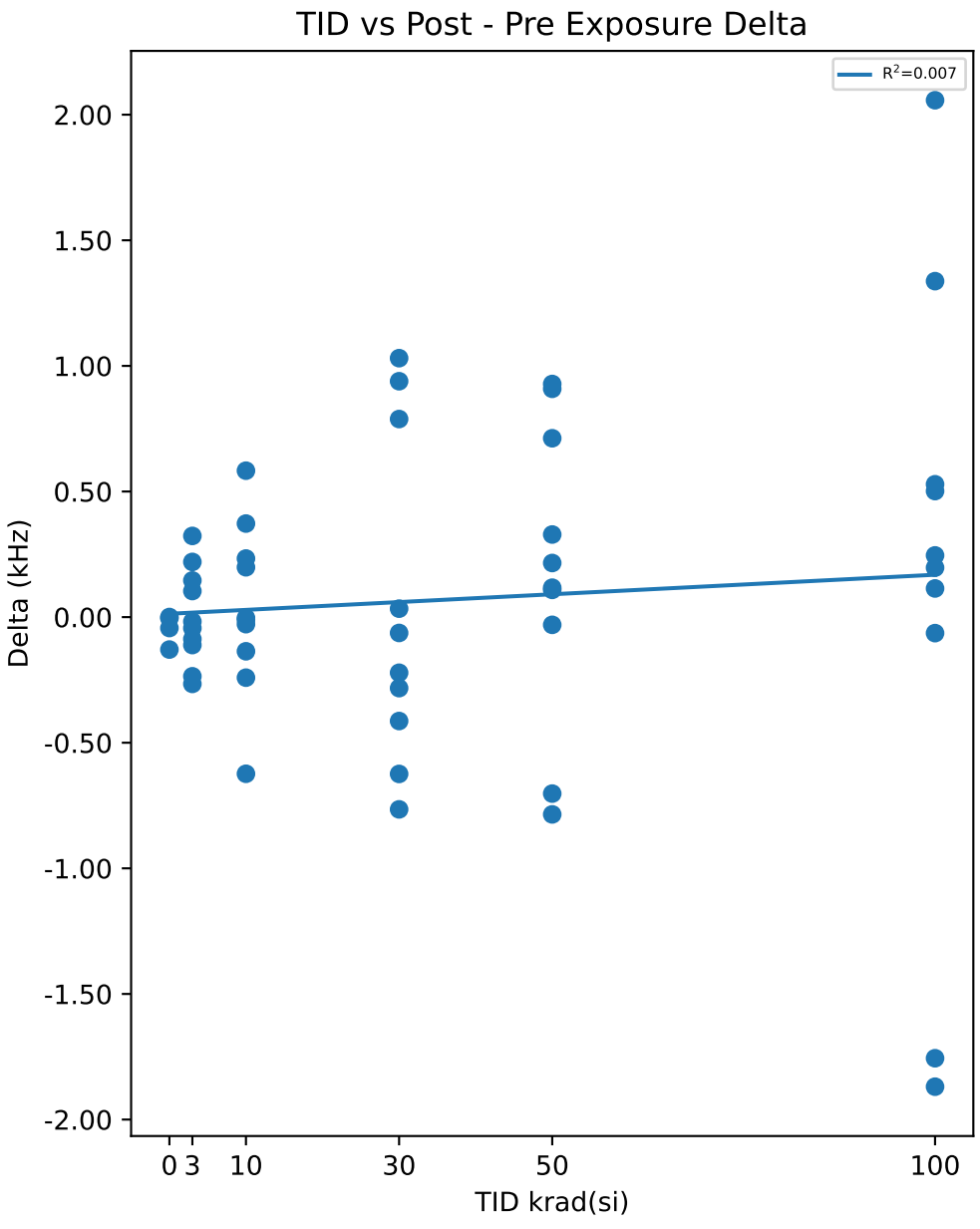
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	94.898	94.969	0.0711
2	3	HDR BIAS	93.994	93.803	-0.1904
3	3	HDR BIAS	95.372	95.404	0.0317
4	3	HDR BIAS	94.127	94.294	0.1663
5	3	HDR BIAS	95.74	95.769	0.0291
6	3	HDR UNBIAS	93.834	93.694	-0.1397
7	3	HDR UNBIAS	92.444	92.376	-0.068
8	3	HDR UNBIAS	94.056	94.04	-0.0169
9	3	HDR UNBIAS	94.154	94.391	0.2366
10	3	HDR UNBIAS	92.928	92.992	0.0636
11	10	HDR BIAS	93.439	93.644	0.2055
12	10	HDR BIAS	93.225	93.611	0.3869
13	10	HDR BIAS	92.089	92.124	0.0344
14	10	HDR BIAS	95.509	95.515	0.0061
15	10	HDR BIAS	91.982	91.997	0.0148
16	10	HDR UNBIAS	94.368	94.288	-0.0792
17	10	HDR UNBIAS	90.016	90.188	0.1728
18	10	HDR UNBIAS	93.642	93.252	-0.3898
19	10	HDR UNBIAS	91.451	91.718	0.2676
20	10	HDR UNBIAS	94.477	94.401	-0.076
31	30	HDR BIAS	92.544	93.066	0.5218
32	30	HDR BIAS	92.382	92.326	-0.0564
33	30	HDR BIAS	91.651	91.189	-0.4613
34	30	HDR BIAS	93.127	92.918	-0.2088
35	30	HDR BIAS	93.53	93.538	0.0083
36	30	HDR UNBIAS	94.375	94.133	-0.2419
37	30	HDR UNBIAS	93.937	94.638	0.7013
38	30	HDR UNBIAS	94.186	94.217	0.0309
39	30	HDR UNBIAS	93.349	93.016	-0.3332
40	30	HDR UNBIAS	95.193	95.825	0.6319
41	50	HDR BIAS	96.737	96.386	-0.3512
42	50	HDR BIAS	95.382	95.341	-0.0406
43	50	HDR BIAS	96.712	96.745	0.033
44	50	HDR BIAS	92.781	93.207	0.4258
45	50	HDR BIAS	92.979	92.985	0.006
46	50	HDR UNBIAS	95.431	95.603	0.1724
47	50	HDR UNBIAS	93.716	94.297	0.581
48	50	HDR UNBIAS	94.602	94.162	-0.4403
49	50	HDR UNBIAS	94.263	94.89	0.6271
50	50	HDR UNBIAS	95.685	95.881	0.1966
51	100	HDR BIAS	95.6	95.768	0.1679
52	100	HDR BIAS	93.951	93.964	0.0136
53	100	HDR BIAS	92.404	93.677	1.2733
54	100	HDR BIAS	92.269	92.362	0.0937
55	100	HDR BIAS	93.409	93.318	-0.0909
56	100	HDR UNBIAS	94.702	93.381	-1.3214
57	100	HDR UNBIAS	90.614	91.58	0.9661
58	100	HDR UNBIAS	92.513	92.721	0.2079
59	100	HDR UNBIAS	95.032	95.364	0.3323
60	100	HDR UNBIAS	93.409	92.309	-1.1002
91	0	CORRELATION	93.995	93.975	-0.0199
92	0	CORRELATION	94.539	94.529	-0.01
93	0	CORRELATION	93.009	93.005	-0.0036
94	0	CORRELATION	94.602	94.592	-0.0105

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.009	94.036	94.602	0.73709	93.005	94.025	94.592	0.7342	-0.0199	-0.011	-0.0036	0.0067137
3	92.444	94.155	95.74	1.0065	92.376	94.173	95.769	1.0417	-0.1904	0.01834	0.2366	0.12992
10	90.016	93.02	95.509	1.6388	90.188	93.074	95.515	1.5659	-0.3898	0.05431	0.3869	0.21841
30	91.651	93.427	95.193	1.0533	91.189	93.487	95.825	1.295	-0.4613	0.05926	0.7013	0.41612
50	92.781	94.829	96.737	1.4068	92.985	94.95	96.745	1.2772	-0.4403	0.12098	0.6271	0.3581
100	90.614	93.39	95.6	1.5027	91.58	93.444	95.768	1.3287	-1.3214	0.05423	1.2733	0.79448

Device Test: 20.109 LEVEL|FREQ/RT/8/8/0/1000/5/200kHz//@FSW_EXT_RT_B





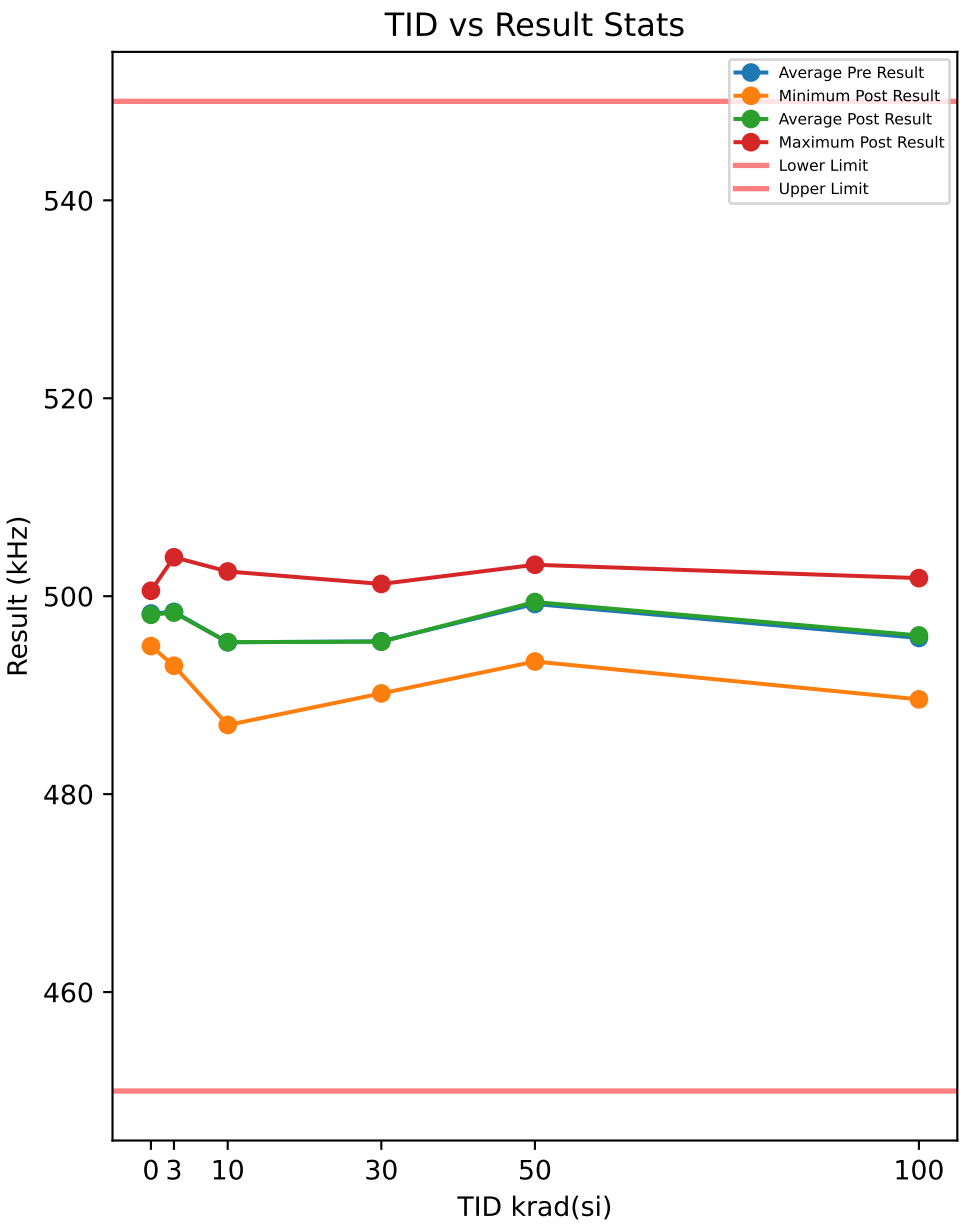
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

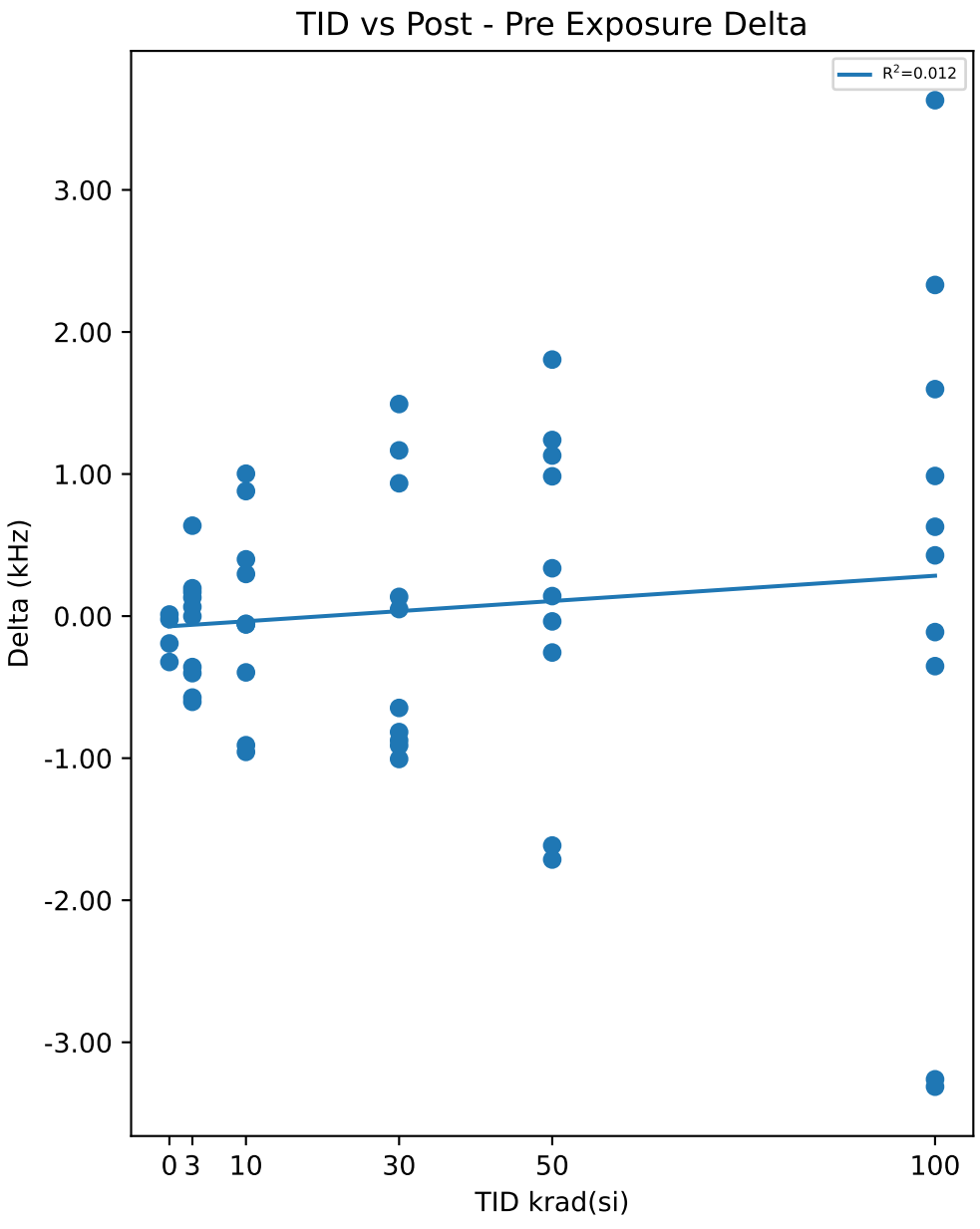
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	195.28	195.39	0.1038
2	3	HDR BIAS	194.55	194.28	-0.2658
3	3	HDR BIAS	197.12	197.1	-0.0176
4	3	HDR BIAS	194.21	194.54	0.3232
5	3	HDR BIAS	196.98	196.94	-0.044
6	3	HDR UNBIAS	194.59	194.35	-0.2355
7	3	HDR UNBIAS	191.85	191.74	-0.1112
8	3	HDR UNBIAS	194.55	194.46	-0.0872
9	3	HDR UNBIAS	194.69	194.91	0.2197
10	3	HDR UNBIAS	192.88	193.02	0.1459
11	10	HDR BIAS	193.83	194.03	0.1984
12	10	HDR BIAS	193.18	193.76	0.5829
13	10	HDR BIAS	191.53	191.53	-0.0031
14	10	HDR BIAS	196.96	196.93	-0.028
15	10	HDR BIAS	191.05	190.91	-0.136
16	10	HDR UNBIAS	194.64	194.63	-0.0101
17	10	HDR UNBIAS	187.93	188.16	0.2332
18	10	HDR UNBIAS	193.98	193.36	-0.6236
19	10	HDR UNBIAS	190.41	190.78	0.3724
20	10	HDR UNBIAS	195.22	194.97	-0.241
31	30	HDR BIAS	191.52	192.31	0.7885
32	30	HDR BIAS	191.95	191.88	-0.063
33	30	HDR BIAS	190.72	189.95	-0.7653
34	30	HDR BIAS	192.77	192.49	-0.2826
35	30	HDR BIAS	193.19	192.97	-0.2214
36	30	HDR UNBIAS	195.26	194.84	-0.4136
37	30	HDR UNBIAS	193.52	194.55	1.0308
38	30	HDR UNBIAS	194.96	194.99	0.0337
39	30	HDR UNBIAS	193.11	192.48	-0.6242
40	30	HDR UNBIAS	195.88	196.82	0.939
41	50	HDR BIAS	198.38	197.6	-0.7853
42	50	HDR BIAS	196.31	196.53	0.2154
43	50	HDR BIAS	198.17	198.28	0.1084
44	50	HDR BIAS	192.04	192.75	0.712
45	50	HDR BIAS	192.79	192.75	-0.0307
46	50	HDR UNBIAS	196.74	197.07	0.3288
47	50	HDR UNBIAS	193.43	194.36	0.928
48	50	HDR UNBIAS	195.31	194.6	-0.7025
49	50	HDR UNBIAS	194.51	195.42	0.9088
50	50	HDR UNBIAS	196.99	197.11	0.1171
51	100	HDR BIAS	196.72	196.97	0.2456
52	100	HDR BIAS	193.7	193.82	0.1141
53	100	HDR BIAS	191.88	193.94	2.0575
54	100	HDR BIAS	191.83	192.03	0.1968
55	100	HDR BIAS	193.3	193.23	-0.0637
56	100	HDR UNBIAS	195	193.13	-1.8692
57	100	HDR UNBIAS	188.76	190.09	1.3373
58	100	HDR UNBIAS	192.44	192.94	0.5017
59	100	HDR UNBIAS	195.74	196.27	0.5288
60	100	HDR UNBIAS	193.8	192.04	-1.7559
91	0	CORRELATION	193.86	193.73	-0.1291
92	0	CORRELATION	195.36	195.36	0.0004
93	0	CORRELATION	193.17	193.13	-0.0434
94	0	CORRELATION	195.48	195.47	-0.0042

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.17	194.47	195.48	1.1361	193.13	194.42	195.47	1.1754	-0.1291	-0.044075	0.0004	0.059994
3	191.85	194.67	197.12	1.6019	191.74	194.67	197.1	1.6058	-0.2658	0.00313	0.3232	0.19236
10	187.93	192.87	196.96	2.6504	188.16	192.91	196.93	2.5512	-0.6236	0.03451	0.5829	0.33774
30	190.72	193.29	195.88	1.6769	189.95	193.33	196.82	1.9679	-0.7653	0.04219	1.0308	0.65222
50	192.04	195.47	198.38	2.2244	192.75	195.65	198.28	1.9792	-0.7853	0.18	0.928	0.59266
100	188.76	193.32	196.72	2.2733	190.09	193.45	196.97	2.0103	-1.8692	0.1293	2.0575	1.2055

Device Test: 20.111 LEVEL|FREQ/RT/8/8/0/1000/5/500kHz//@FSW_EXT_RT_C





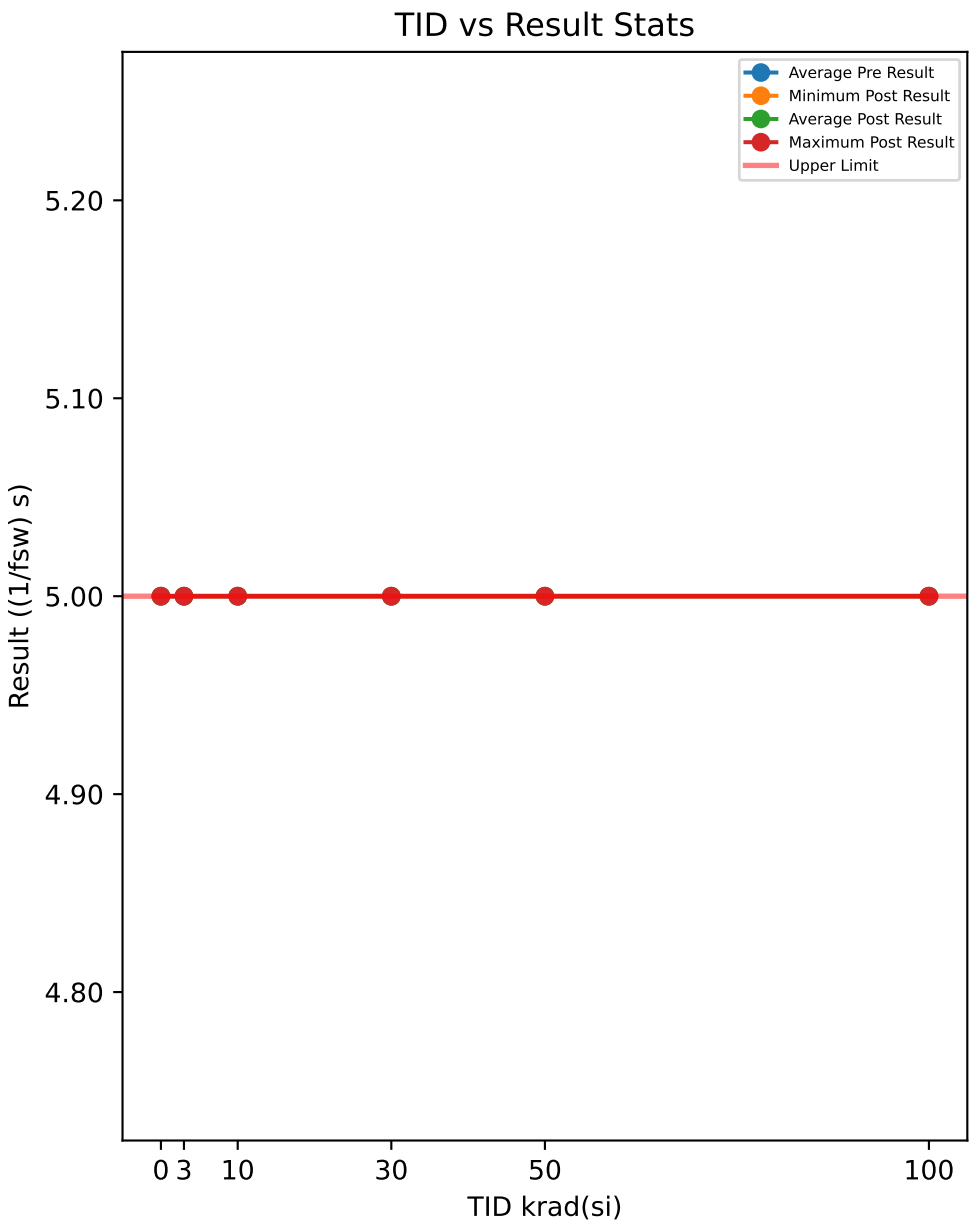
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

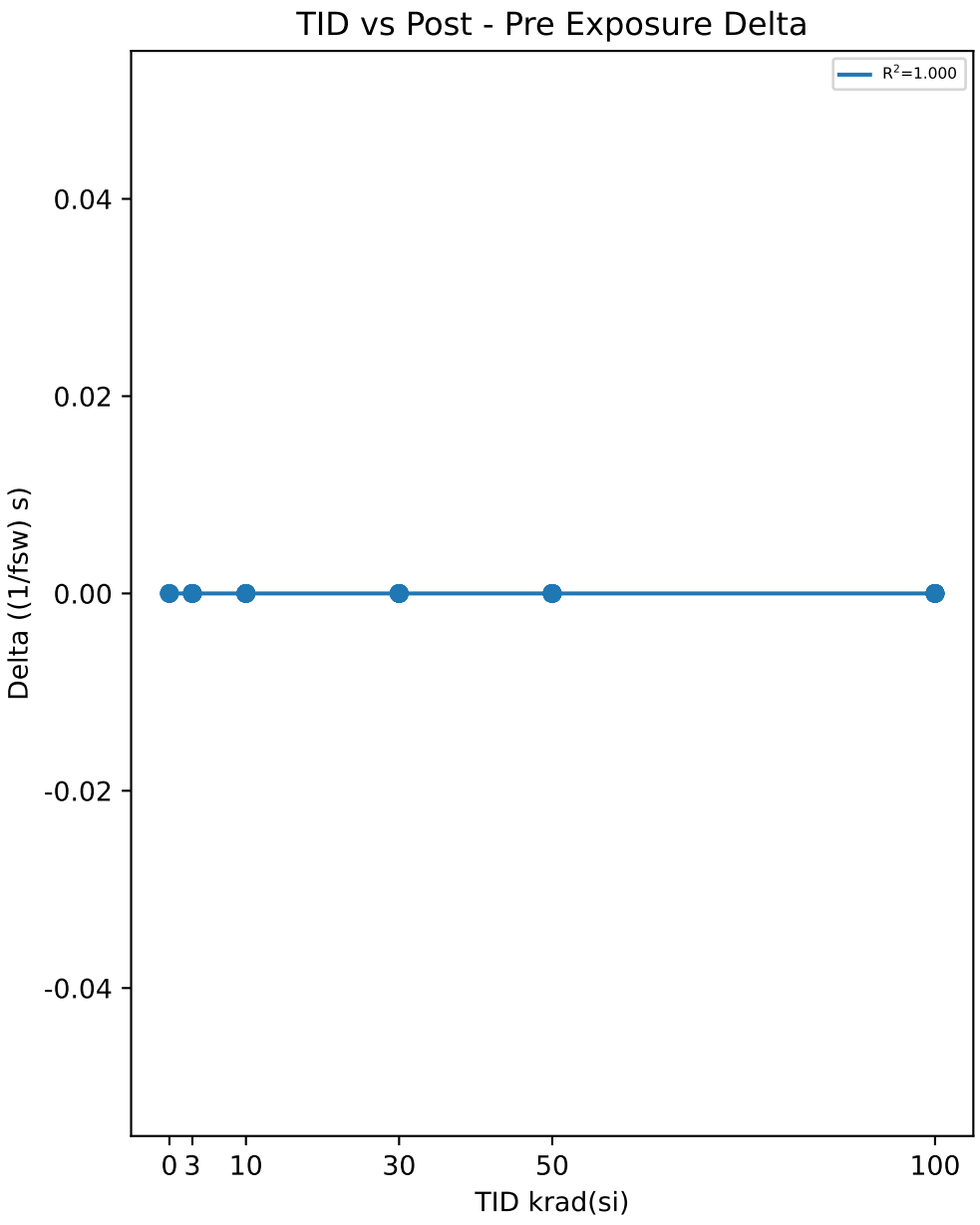
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	498.15	498.32	0.1695
2	3	HDR BIAS	498.54	497.94	-0.6034
3	3	HDR BIAS	503.8	503.93	0.1311
4	3	HDR BIAS	496.78	496.97	0.196
5	3	HDR BIAS	502	502.06	0.0651
6	3	HDR UNBIAS	498.69	498.29	-0.4016
7	3	HDR UNBIAS	493.33	492.97	-0.3586
8	3	HDR UNBIAS	498.54	497.96	-0.5734
9	3	HDR UNBIAS	498.45	499.09	0.6366
10	3	HDR UNBIAS	495.92	495.92	-0.0014
11	10	HDR BIAS	497.58	497.88	0.2965
12	10	HDR BIAS	495.67	496.67	1.0025
13	10	HDR BIAS	494.15	494.09	-0.059
14	10	HDR BIAS	502.56	502.5	-0.0559
15	10	HDR BIAS	491	490.95	-0.0545
16	10	HDR UNBIAS	497.86	497.46	-0.3963
17	10	HDR UNBIAS	486.11	486.99	0.8798
18	10	HDR UNBIAS	497.25	496.29	-0.9559
19	10	HDR UNBIAS	491.77	492.17	0.3997
20	10	HDR UNBIAS	499.48	498.57	-0.9086
31	30	HDR BIAS	491.84	493	1.1664
32	30	HDR BIAS	493.83	493.88	0.0494
33	30	HDR BIAS	491.09	490.18	-0.9106
34	30	HDR BIAS	494.65	493.83	-0.8161
35	30	HDR BIAS	494.36	493.71	-0.6464
36	30	HDR UNBIAS	500.1	499.22	-0.8752
37	30	HDR UNBIAS	494.17	495.66	1.4928
38	30	HDR UNBIAS	499.67	499.81	0.1354
39	30	HDR UNBIAS	494.44	493.44	-1.006
40	30	HDR UNBIAS	500.3	501.24	0.9348
41	50	HDR BIAS	503.76	502.05	-1.7136
42	50	HDR BIAS	500.2	501.33	1.1303
43	50	HDR BIAS	503.43	503.18	-0.2563
44	50	HDR BIAS	492.42	493.4	0.984
45	50	HDR BIAS	494.83	495.16	0.3367
46	50	HDR UNBIAS	502.83	502.97	0.1409
47	50	HDR UNBIAS	494.81	496.61	1.8057
48	50	HDR UNBIAS	499.69	498.07	-1.6149
49	50	HDR UNBIAS	498.18	499.42	1.2397
50	50	HDR UNBIAS	501.97	501.93	-0.0372
51	100	HDR BIAS	500.84	501.83	0.9864
52	100	HDR BIAS	495.39	495.04	-0.3523
53	100	HDR BIAS	493.65	497.28	3.6312
54	100	HDR BIAS	494.23	494.65	0.4276
55	100	HDR BIAS	495.96	495.85	-0.1125
56	100	HDR UNBIAS	497.48	494.22	-3.2605
57	100	HDR UNBIAS	487.25	489.58	2.3309
58	100	HDR UNBIAS	495.89	496.52	0.6288
59	100	HDR UNBIAS	499.61	501.21	1.5976
60	100	HDR UNBIAS	497.5	494.19	-3.3125
91	0	CORRELATION	494.98	494.96	-0.022
92	0	CORRELATION	499.89	499.9	0.0114
93	0	CORRELATION	497.26	497.07	-0.1924
94	0	CORRELATION	500.87	500.55	-0.3231

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.98	498.25	500.87	2.6578	494.96	498.12	500.55	2.5905	-0.3231	-0.13152	0.0114	0.15581
3	493.33	498.42	503.8	2.9209	492.97	498.35	503.93	3.0285	-0.6034	-0.07401	0.6366	0.39747
10	486.11	495.34	502.56	4.7444	486.99	495.36	502.5	4.4227	-0.9559	0.01483	1.0025	0.66085
30	491.09	495.44	500.3	3.3697	490.18	495.4	501.24	3.5385	-1.006	-0.04755	1.4928	0.95172
50	492.42	499.21	503.76	4.0317	493.4	499.41	503.18	3.4583	-1.7136	0.20153	1.8057	1.1729
100	487.25	495.78	500.84	3.7438	489.58	496.04	501.83	3.5507	-3.3125	0.25647	3.6312	2.2062

Device Test: 20.114 FREQ|DETECTION/SYNC/8/8/0/0/5/100kHz//@T_SYNC_DET





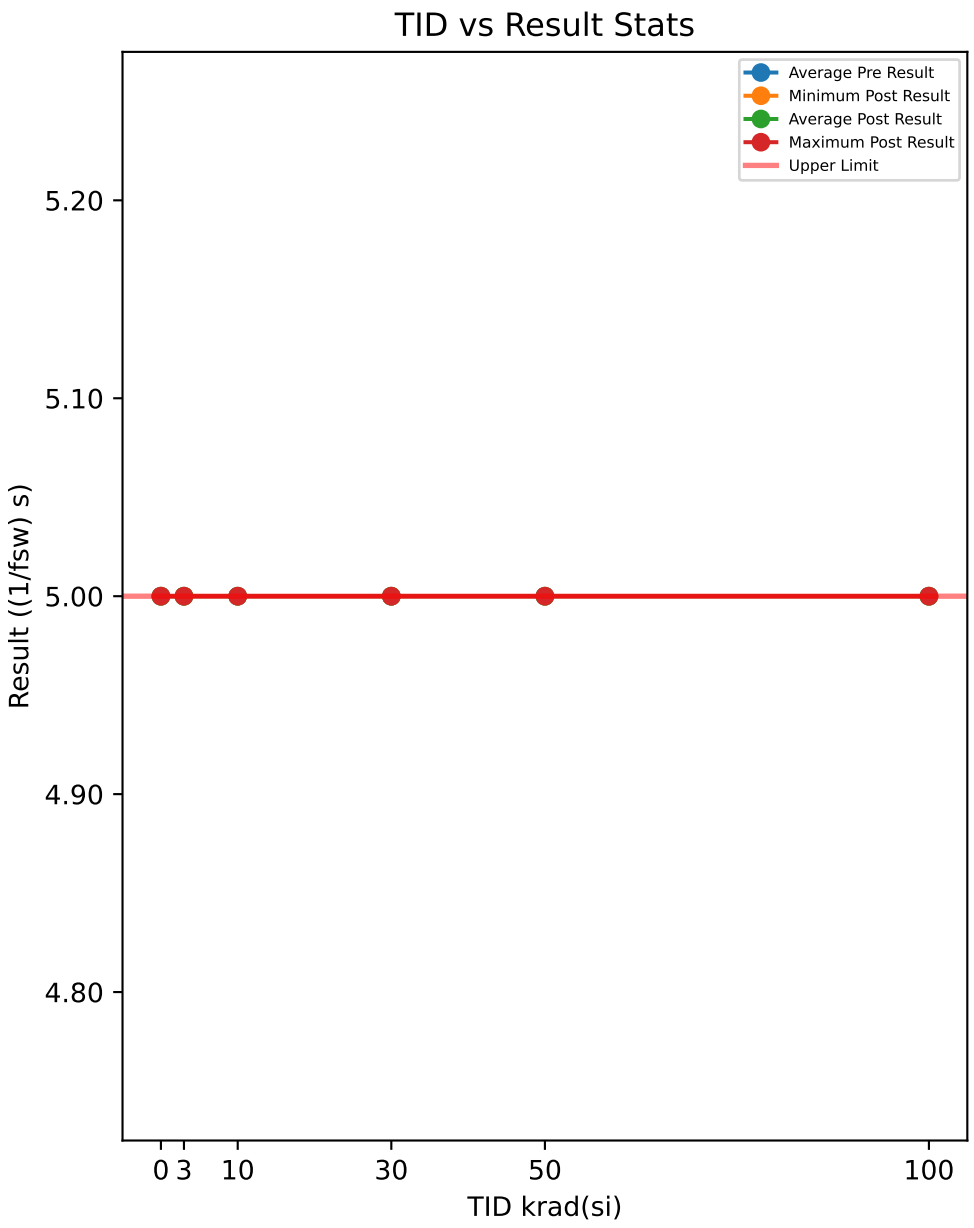
Test Results (Upper Limit = 5.0 ((1/fsw) s))

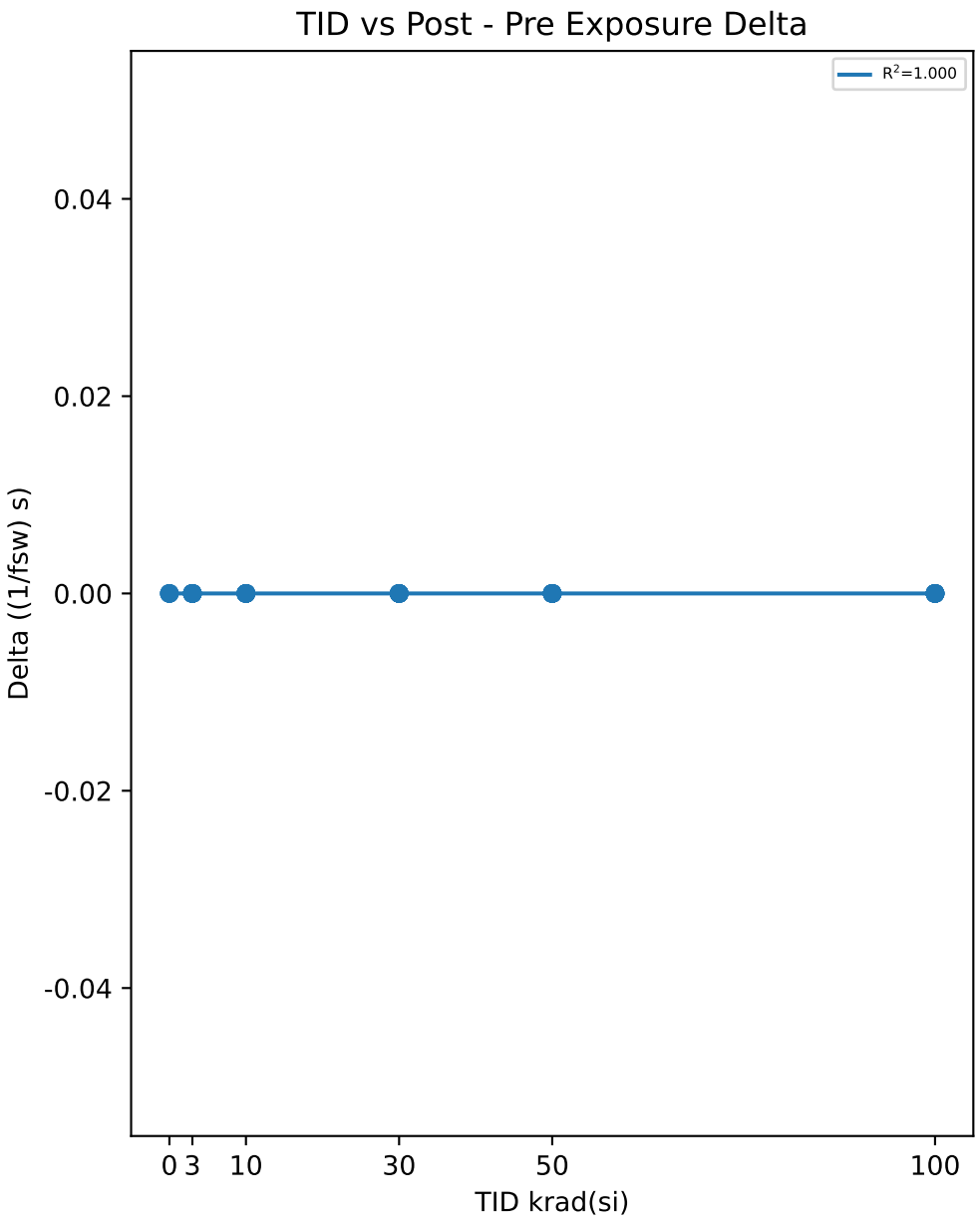
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.116 FREQ|DETECTION/SYNC/8/8/0/0/5/200kHz//@T_SYNC_DET





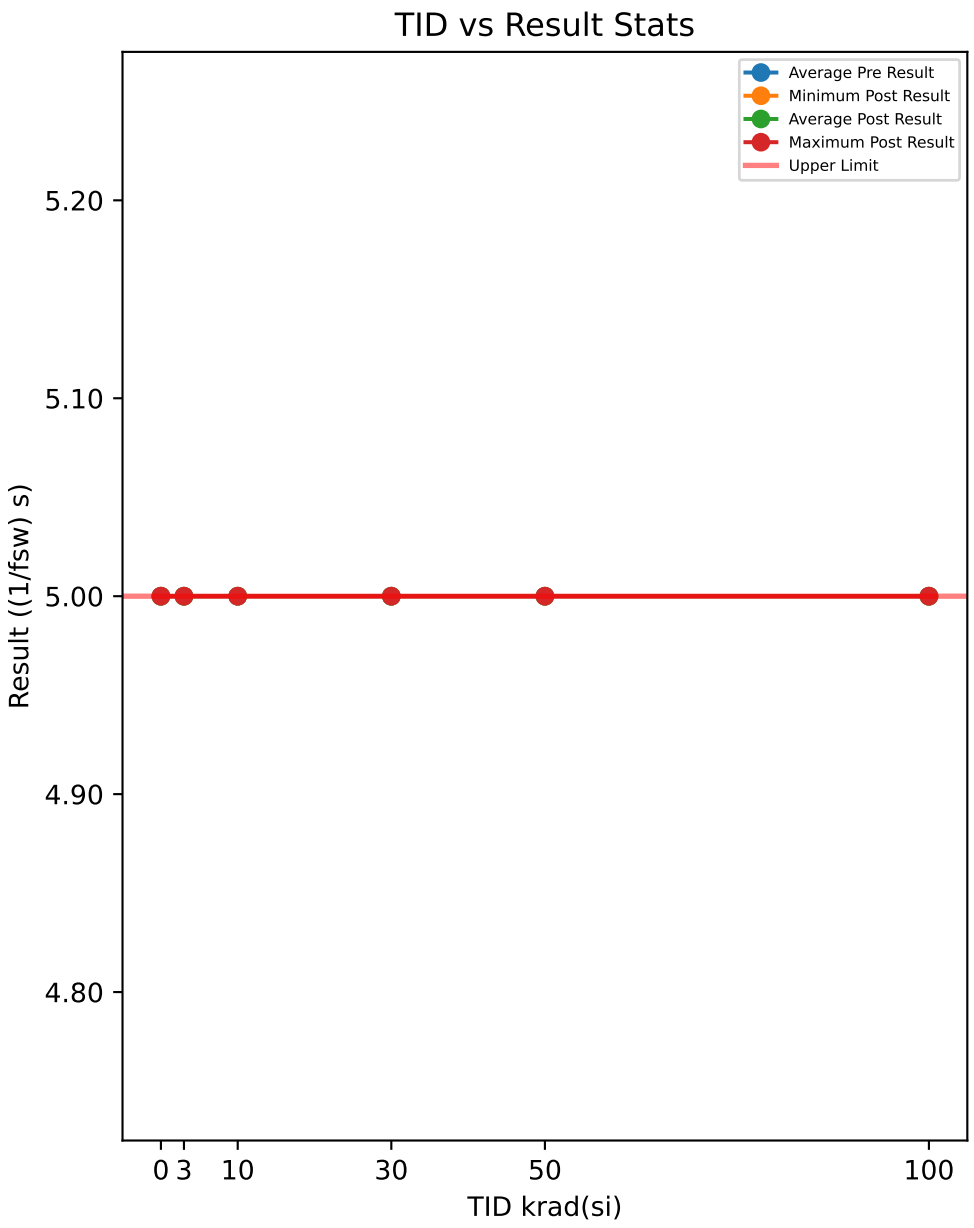
Test Results (Upper Limit = 5.0 ((1/fsw) s))

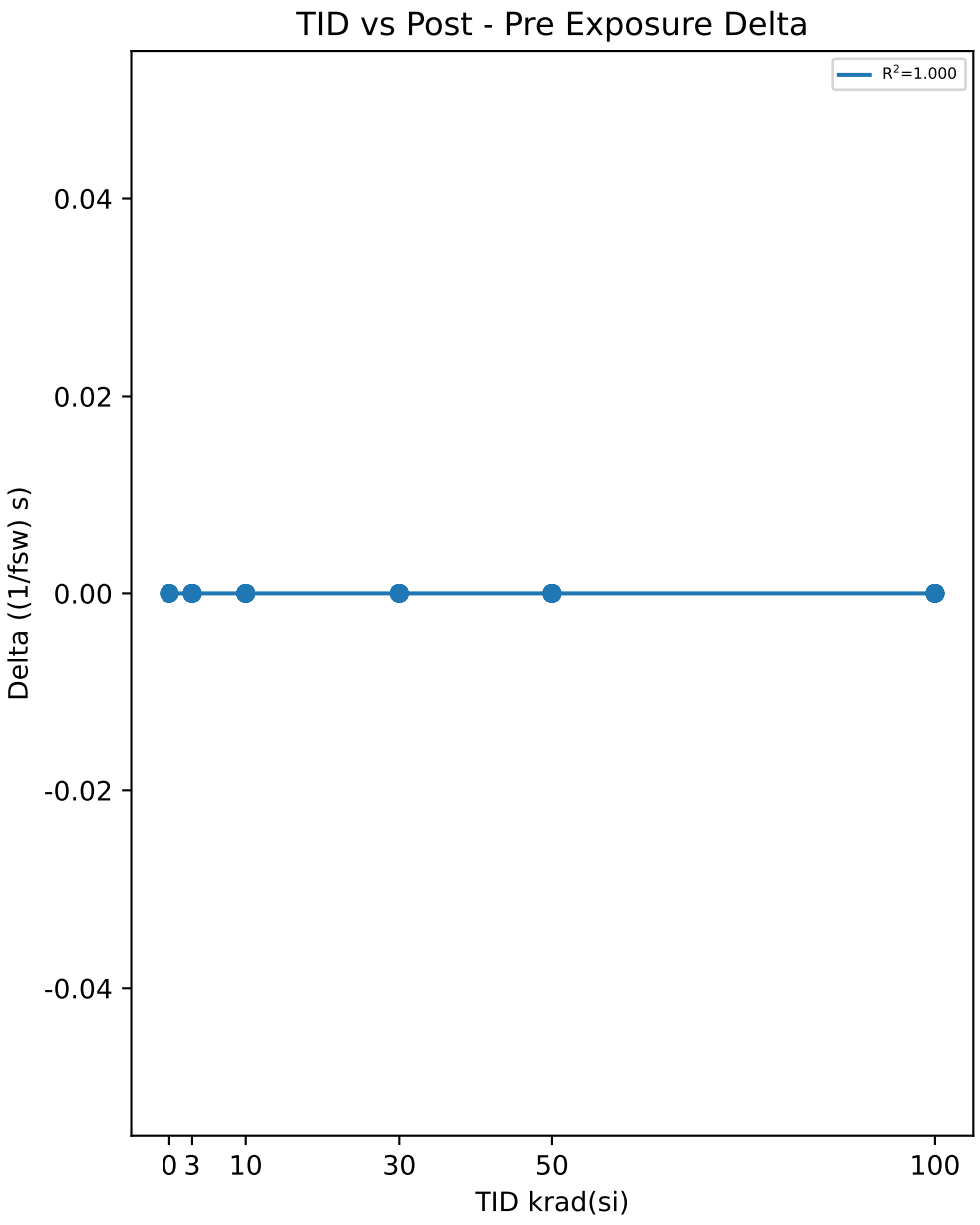
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.118 FREQ|DETECTION/SYNC/8/8/0/0/5/500kHz//@T_SYNC_DET





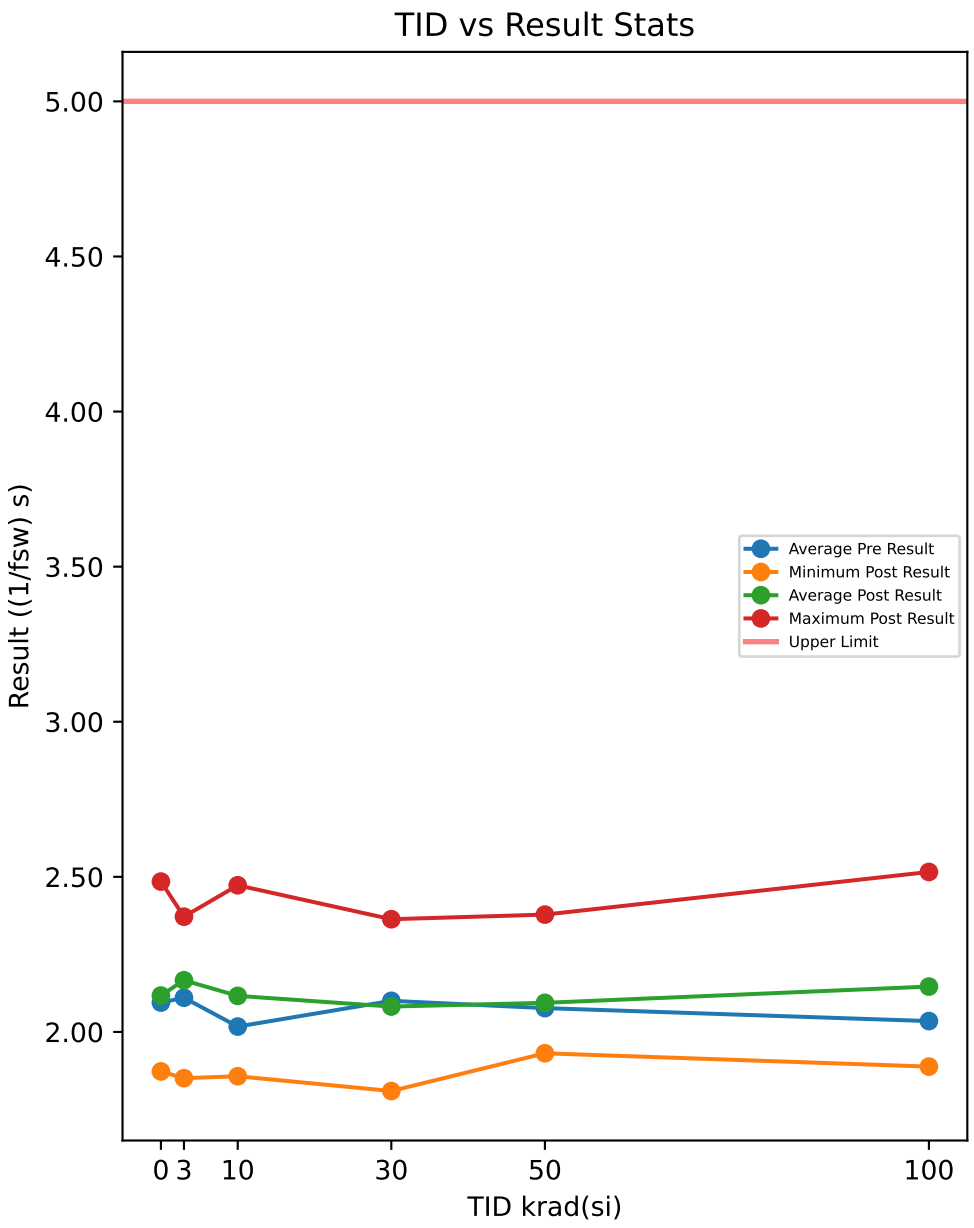
Test Results (Upper Limit = 5.0 ((1/fsw) s))

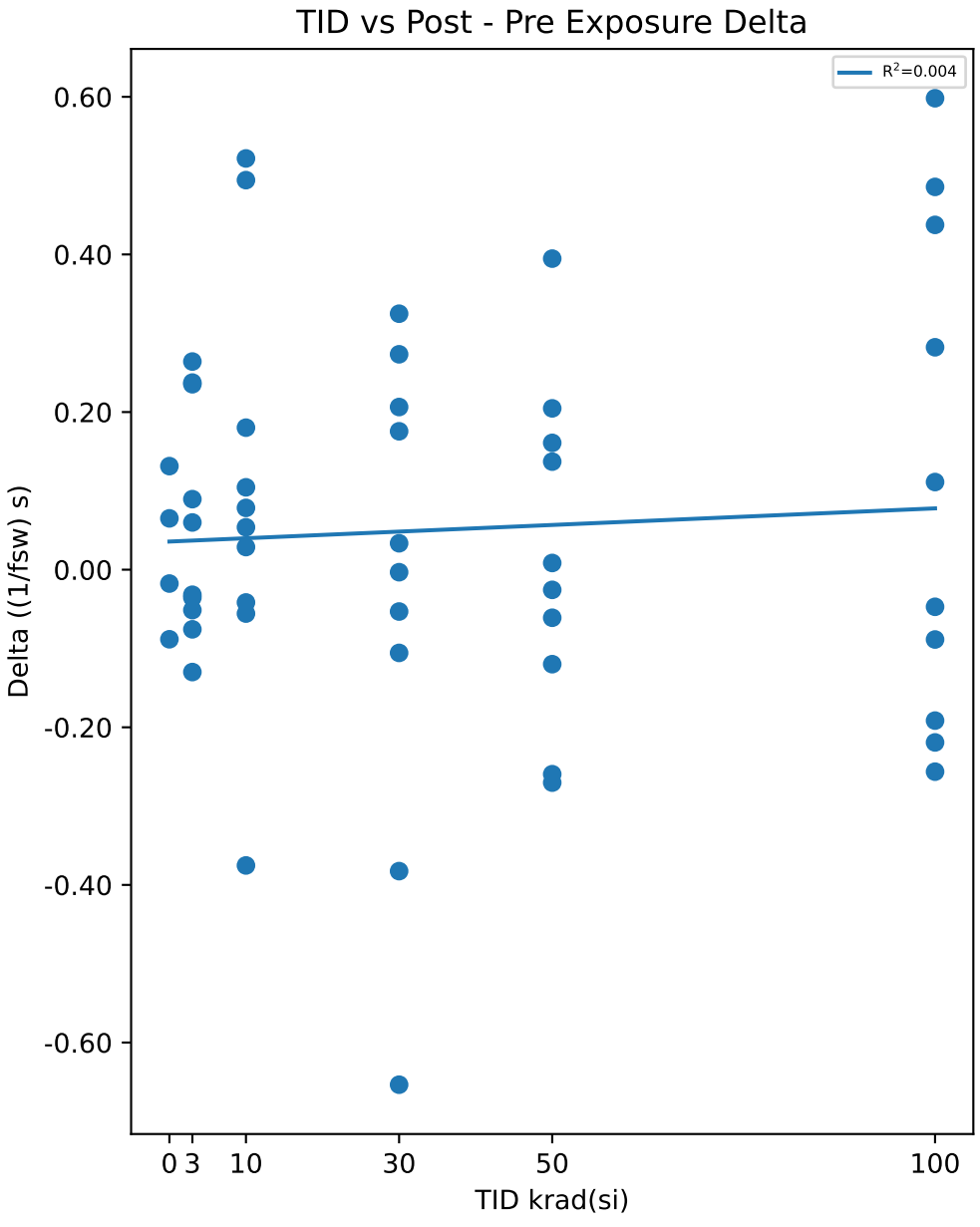
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.120 FREQ|DETECTION/RT/8/8/0/0/5/100kHz//@T_INT_CLK_DET





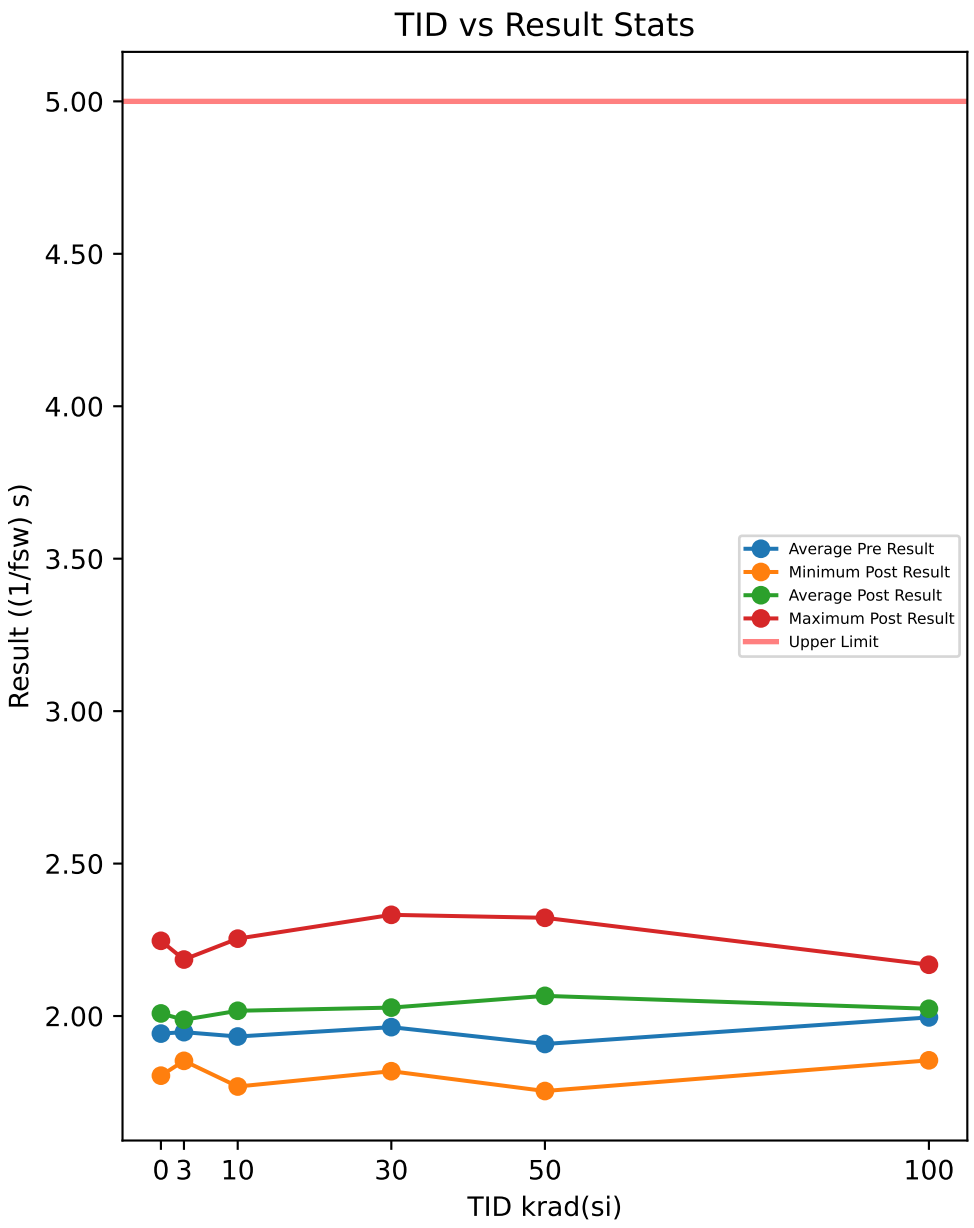
Test Results (Upper Limit = 5.0 ((1/fsw) s))

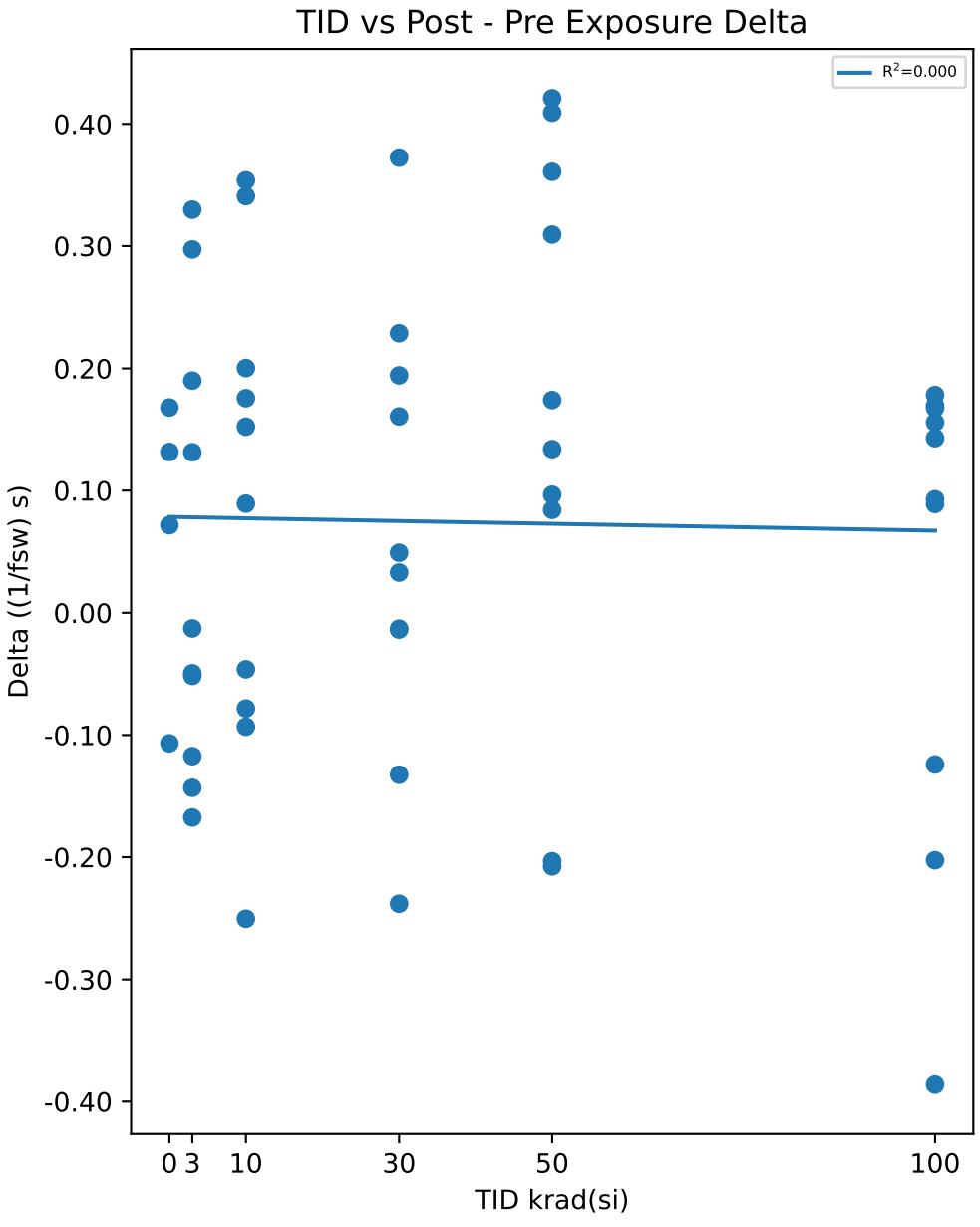
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.2543	2.3438	0.0895
2	3	HDR BIAS	1.9991	1.9673	-0.0318
3	3	HDR BIAS	1.9828	2.2202	0.2374
4	3	HDR BIAS	2.2532	2.1233	-0.1299
5	3	HDR BIAS	1.9939	2.2292	0.2353
6	3	HDR UNBIAS	1.8863	1.8509	-0.0354
7	3	HDR UNBIAS	2.3117	2.3716	0.0599
8	3	HDR UNBIAS	2.0014	1.9257	-0.0757
9	3	HDR UNBIAS	2.047	2.3111	0.2641
10	3	HDR UNBIAS	2.374	2.3227	-0.0513
11	10	HDR BIAS	2.102	2.1307	0.0287
12	10	HDR BIAS	1.9036	1.982	0.0784
13	10	HDR BIAS	2.3255	2.43	0.1045
14	10	HDR BIAS	1.9129	1.8572	-0.0557
15	10	HDR BIAS	1.9785	2.4728	0.4943
16	10	HDR UNBIAS	2.243	1.8677	-0.3753
17	10	HDR UNBIAS	1.8394	2.3612	0.5218
18	10	HDR UNBIAS	1.7862	1.9664	0.1802
19	10	HDR UNBIAS	2.1545	2.2083	0.0538
20	10	HDR UNBIAS	1.928	1.8864	-0.0416
31	30	HDR BIAS	2.2418	2.2753	0.0335
32	30	HDR BIAS	1.9968	1.8912	-0.1056
33	30	HDR BIAS	2.0386	2.3634	0.3248
34	30	HDR BIAS	2.5786	1.9251	-0.6535
35	30	HDR BIAS	1.969	2.1754	0.2064
36	30	HDR UNBIAS	1.8135	2.0868	0.2733
37	30	HDR UNBIAS	2.2756	2.2724	-0.0032
38	30	HDR UNBIAS	1.9051	1.852	-0.0531
39	30	HDR UNBIAS	1.9918	2.1674	0.1756
40	30	HDR UNBIAS	2.192	1.8095	-0.3825
41	50	HDR BIAS	2.0158	2.2205	0.2047
42	50	HDR BIAS	1.8821	2.0192	0.1371
43	50	HDR BIAS	2.3236	2.2037	-0.1199
44	50	HDR BIAS	1.9198	2.0807	0.1609
45	50	HDR BIAS	1.9836	2.3783	0.3947
46	50	HDR UNBIAS	2.2551	1.9849	-0.2702
47	50	HDR UNBIAS	2.055	2.0294	-0.0256
48	50	HDR UNBIAS	1.9922	1.9312	-0.061
49	50	HDR UNBIAS	2.3771	2.1176	-0.2595
50	50	HDR UNBIAS	1.9642	1.9727	0.0085
51	100	HDR BIAS	1.8762	2.3137	0.4375
52	100	HDR BIAS	2.1837	1.9274	-0.2563
53	100	HDR BIAS	1.8149	2.3006	0.4857
54	100	HDR BIAS	2.1294	1.9102	-0.2192
55	100	HDR BIAS	2.4053	2.2138	-0.1915
56	100	HDR UNBIAS	1.908	2.0192	0.1112
57	100	HDR UNBIAS	1.9175	2.5157	0.5982
58	100	HDR UNBIAS	2.2201	2.173	-0.0471
59	100	HDR UNBIAS	1.9182	2.2004	0.2822
60	100	HDR UNBIAS	1.9769	1.8883	-0.0886
91	0	CORRELATION	2.0556	2.1207	0.0651
92	0	CORRELATION	1.961	1.8727	-0.0883
93	0	CORRELATION	2.3533	2.4847	0.1314
94	0	CORRELATION	2.0086	1.991	-0.0176

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.961	2.0946	2.3533	0.17672	1.8727	2.1173	2.4847	0.26506	-0.0883	0.02265	0.1314	0.095845
3	1.8863	2.1104	2.374	0.16979	1.8509	2.1666	2.3716	0.18996	-0.1299	0.05621	0.2641	0.1449
10	1.7862	2.0174	2.3255	0.17959	1.8572	2.1163	2.4728	0.23955	-0.3753	0.09891	0.5218	0.26198
30	1.8135	2.1003	2.5786	0.22406	1.8095	2.0819	2.3634	0.19917	-0.6535	-0.01843	0.3248	0.30527
50	1.8821	2.0768	2.3771	0.1758	1.9312	2.0938	2.3783	0.13844	-0.2702	0.01697	0.3947	0.21047
100	1.8149	2.035	2.4053	0.18945	1.8883	2.1462	2.5157	0.20625	-0.2563	0.11121	0.5982	0.31867

Device Test: 20.122 FREQ|DETECTION/RT/8/8/0/0/5/200kHz//@T_INT_CLK_DET





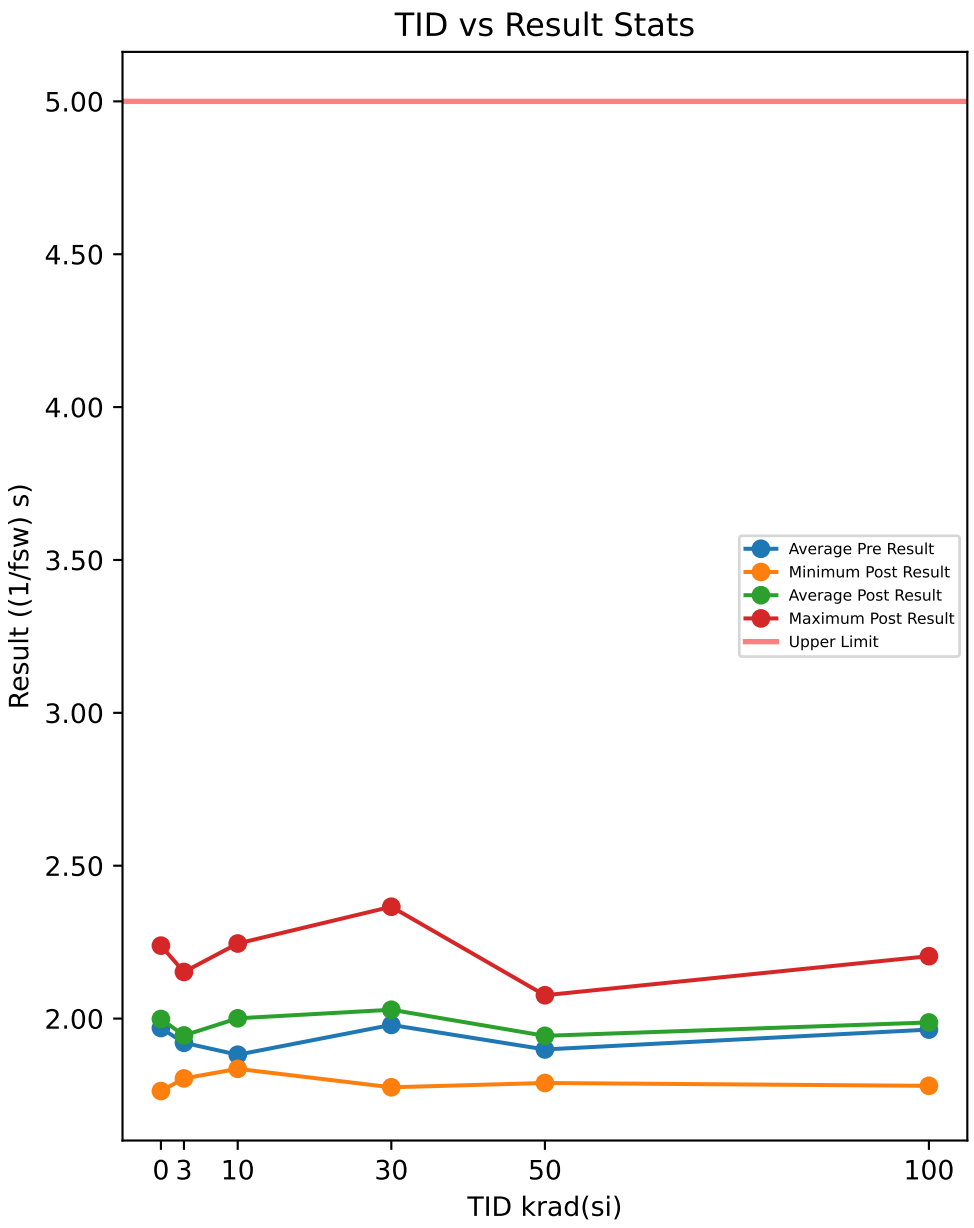
Test Results (Upper Limit = 5.0 ((1/fsw) s))

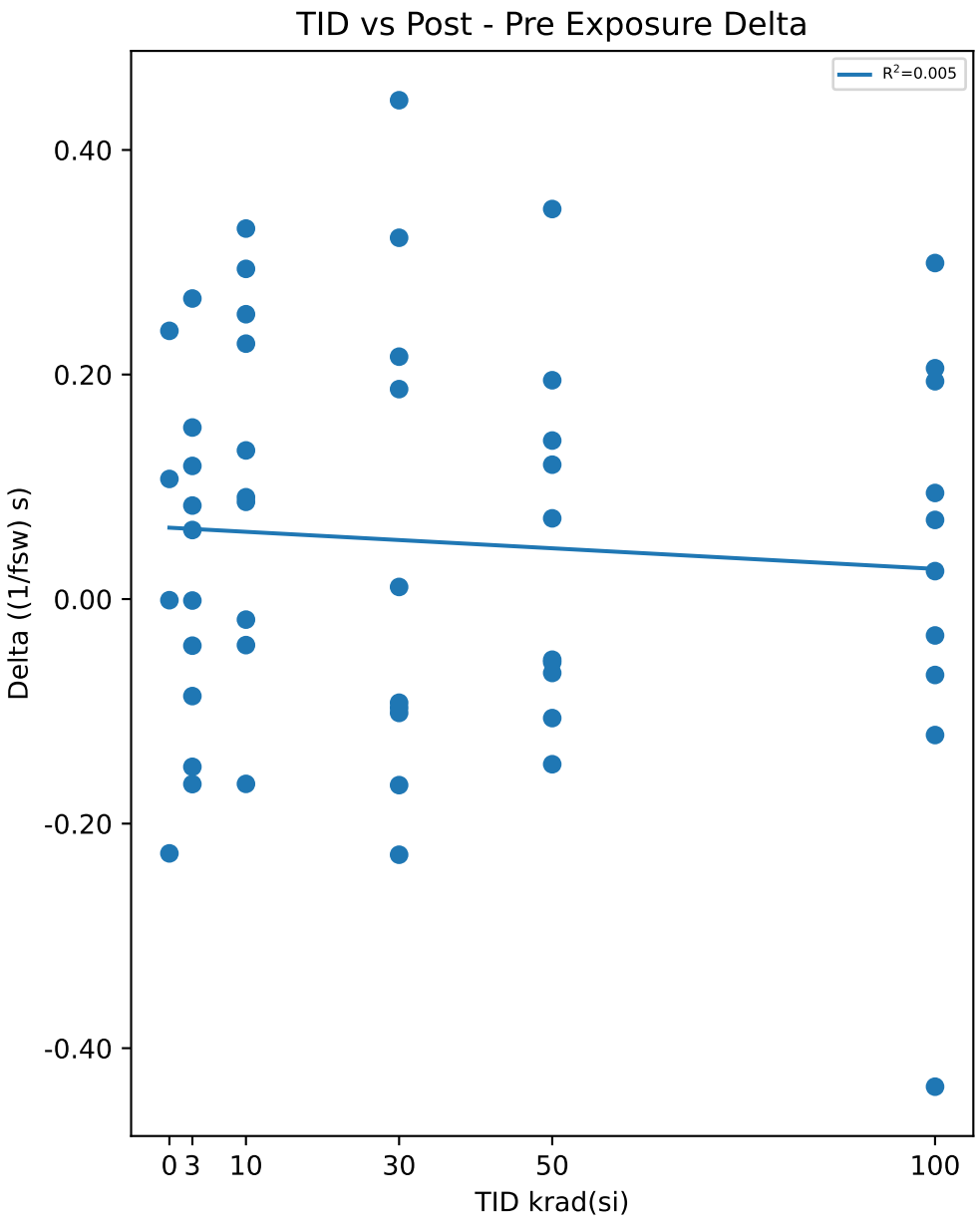
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.0771	2.0643	-0.0128
2	3	HDR BIAS	2.0308	1.8876	-0.1432
3	3	HDR BIAS	1.7672	2.097	0.3298
4	3	HDR BIAS	2.0496	1.8821	-0.1675
5	3	HDR BIAS	1.721	2.0182	0.2972
6	3	HDR UNBIAS	1.7216	1.853	0.1314
7	3	HDR UNBIAS	2.2471	2.1298	-0.1173
8	3	HDR UNBIAS	1.9211	1.8717	-0.0494
9	3	HDR UNBIAS	1.9953	2.1853	0.19
10	3	HDR UNBIAS	1.9404	1.8888	-0.0516
11	10	HDR BIAS	1.8459	2.0215	0.1756
12	10	HDR BIAS	1.8121	1.9644	0.1523
13	10	HDR BIAS	2.0535	2.2538	0.2003
14	10	HDR BIAS	1.8238	1.7776	-0.0462
15	10	HDR BIAS	1.9016	2.2425	0.3409
16	10	HDR UNBIAS	2.1369	1.8865	-0.2504
17	10	HDR UNBIAS	1.8673	2.2211	0.3538
18	10	HDR UNBIAS	1.8474	1.9367	0.0893
19	10	HDR UNBIAS	2.1777	2.0994	-0.0783
20	10	HDR UNBIAS	1.862	1.7688	-0.0932
31	30	HDR BIAS	2.0854	2.2461	0.1607
32	30	HDR BIAS	1.8617	1.9108	0.0491
33	30	HDR BIAS	1.8857	2.2581	0.3724
34	30	HDR BIAS	2.1375	1.8994	-0.2381
35	30	HDR BIAS	2.0365	2.0235	-0.013
36	30	HDR UNBIAS	1.8327	1.819	-0.0137
37	30	HDR UNBIAS	2.1031	2.3319	0.2288
38	30	HDR UNBIAS	1.8024	1.8353	0.0329
39	30	HDR UNBIAS	1.9076	2.1019	0.1943
40	30	HDR UNBIAS	1.9828	1.8503	-0.1325
41	50	HDR BIAS	1.8201	2.1295	0.3094
42	50	HDR BIAS	1.8398	1.9364	0.0966
43	50	HDR BIAS	2.1189	2.2031	0.0842
44	50	HDR BIAS	1.7756	1.9095	0.1339
45	50	HDR BIAS	1.913	2.3222	0.4092
46	50	HDR UNBIAS	2.169	1.9657	-0.2033
47	50	HDR UNBIAS	1.7984	2.2194	0.421
48	50	HDR UNBIAS	1.9615	1.754	-0.2075
49	50	HDR UNBIAS	2.0033	2.1774	0.1741
50	50	HDR UNBIAS	1.6834	2.0442	0.3608
51	100	HDR BIAS	1.861	2.0392	0.1782
52	100	HDR BIAS	2.2408	1.8547	-0.3861
53	100	HDR BIAS	2.0006	2.1682	0.1676
54	100	HDR BIAS	1.9477	2.0367	0.089
55	100	HDR BIAS	2.1641	2.04	-0.1241
56	100	HDR UNBIAS	1.7398	1.9094	0.1696
57	100	HDR UNBIAS	1.9997	2.1426	0.1429
58	100	HDR UNBIAS	2.2516	2.0491	-0.2025
59	100	HDR UNBIAS	1.8938	2.0496	0.1558
60	100	HDR UNBIAS	1.856	1.9489	0.0929
91	0	CORRELATION	2.0017	2.1697	0.168
92	0	CORRELATION	1.92	1.8132	-0.1068
93	0	CORRELATION	2.1151	2.2467	0.1316
94	0	CORRELATION	1.7327	1.8044	0.0717

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7327	1.9424	2.1151	0.16106	1.8044	2.0085	2.2467	0.23275	-0.1068	0.066125	0.168	0.12193
3	1.721	1.9471	2.2471	0.17055	1.853	1.9878	2.1853	0.12496	-0.1675	0.04066	0.3298	0.18304
10	1.8121	1.9328	2.1777	0.13653	1.7688	2.0172	2.2538	0.18274	-0.2504	0.08441	0.3538	0.19774
30	1.8024	1.9635	2.1375	0.12153	1.819	2.0276	2.3319	0.19465	-0.2381	0.06409	0.3724	0.18001
50	1.6834	1.9083	2.169	0.15525	1.754	2.0661	2.3222	0.17435	-0.2075	0.15784	0.421	0.22864
100	1.7398	1.9955	2.2516	0.17314	1.8547	2.0238	2.1682	0.096741	-0.3861	0.02833	0.1782	0.19644

Device Test: 20.124 FREQ|DETECTION/RT/8/8/0/0/5/500kHz//@T_INT_CLK_DET





Test Results (Upper Limit = 5.0 ((1/fsw) s))

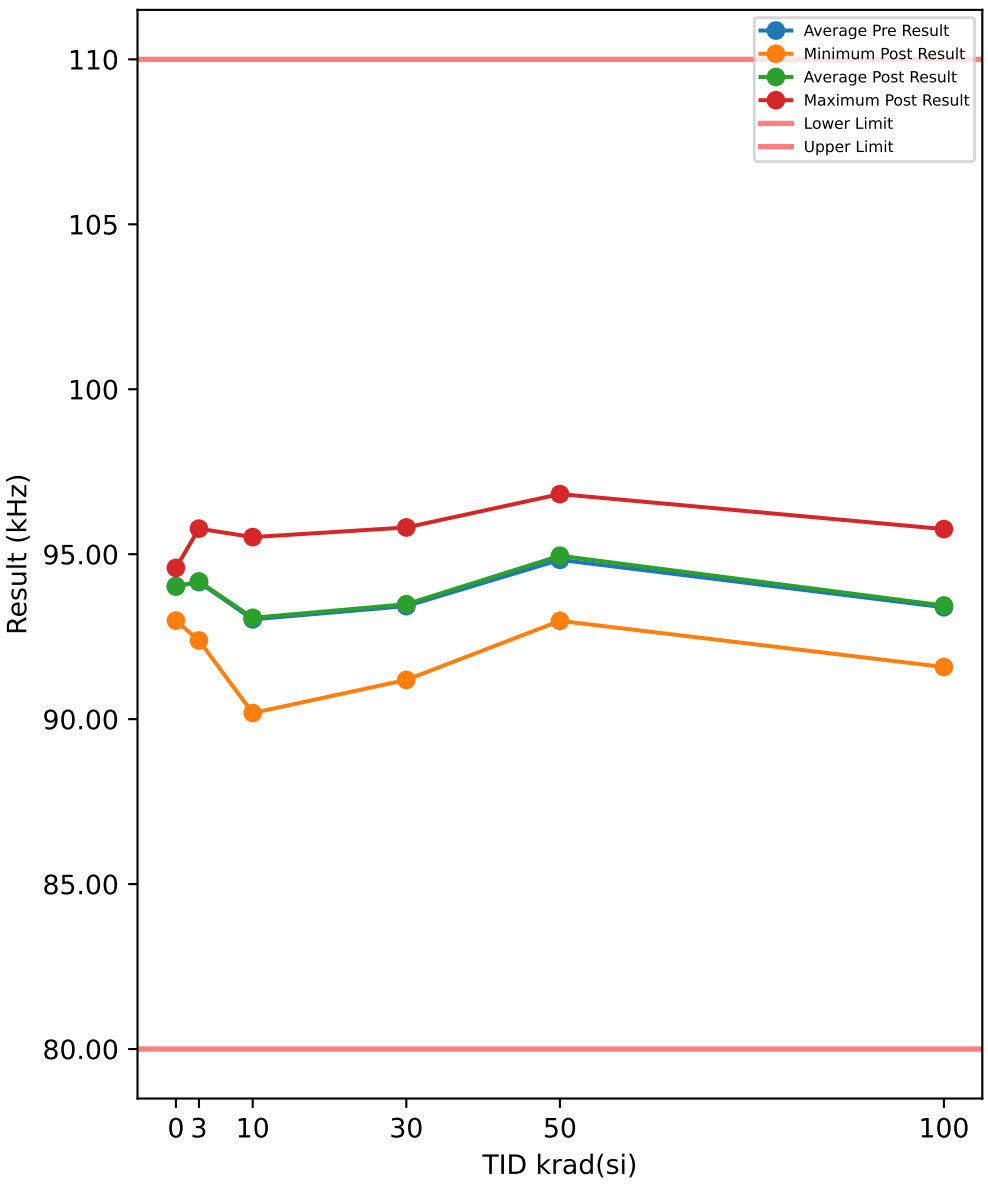
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.127	1.9622	-0.1648
2	3	HDR BIAS	1.8055	1.8042	-0.0013
3	3	HDR BIAS	1.7484	2.0161	0.2677
4	3	HDR BIAS	1.9874	1.901	-0.0864
5	3	HDR BIAS	1.9997	2.1525	0.1528
6	3	HDR UNBIAS	1.7279	1.8112	0.0833
7	3	HDR UNBIAS	2.125	2.0835	-0.0415
8	3	HDR UNBIAS	1.7837	1.8452	0.0615
9	3	HDR UNBIAS	1.8403	1.9589	0.1186
10	3	HDR UNBIAS	2.0633	1.9139	-0.1494
11	10	HDR BIAS	1.78	2.0337	0.2537
12	10	HDR BIAS	1.8964	1.8554	-0.041
13	10	HDR BIAS	2.018	2.2455	0.2275
14	10	HDR BIAS	1.7849	1.8715	0.0866
15	10	HDR BIAS	1.8657	2.1598	0.2941
16	10	HDR UNBIAS	2.0161	1.8515	-0.1646
17	10	HDR UNBIAS	1.7629	2.0929	0.33
18	10	HDR UNBIAS	1.8381	1.9288	0.0907
19	10	HDR UNBIAS	2.0013	2.1337	0.1324
20	10	HDR UNBIAS	1.8539	1.8356	-0.0183
31	30	HDR BIAS	2.0762	1.9794	-0.0968
32	30	HDR BIAS	2.0125	1.9202	-0.0923
33	30	HDR BIAS	1.9426	2.2644	0.3218
34	30	HDR BIAS	2.009	1.8433	-0.1657
35	30	HDR BIAS	1.9215	2.3658	0.4443
36	30	HDR UNBIAS	1.8821	1.8929	0.0108
37	30	HDR UNBIAS	1.9661	2.182	0.2159
38	30	HDR UNBIAS	2.0029	1.7752	-0.2277
39	30	HDR UNBIAS	1.9326	2.1196	0.187
40	30	HDR UNBIAS	2.0472	1.9458	-0.1014
41	50	HDR BIAS	1.769	1.8887	0.1197
42	50	HDR BIAS	1.9566	1.9026	-0.054
43	50	HDR BIAS	2.1105	2.0447	-0.0658
44	50	HDR BIAS	1.9174	1.8114	-0.106
45	50	HDR BIAS	1.845	2.0399	0.1949
46	50	HDR UNBIAS	1.9364	1.7893	-0.1471
47	50	HDR UNBIAS	1.7257	2.0731	0.3474
48	50	HDR UNBIAS	1.8822	1.9541	0.0719
49	50	HDR UNBIAS	1.9351	2.0763	0.1412
50	50	HDR UNBIAS	1.9121	1.8558	-0.0563
51	100	HDR BIAS	1.8567	2.0623	0.2056
52	100	HDR BIAS	2.0184	1.8973	-0.1211
53	100	HDR BIAS	1.9048	2.2041	0.2993
54	100	HDR BIAS	1.9349	2.0054	0.0705
55	100	HDR BIAS	2.0479	2.0155	-0.0324
56	100	HDR UNBIAS	1.8686	1.8935	0.0249
57	100	HDR UNBIAS	2.0006	2.0951	0.0945
58	100	HDR UNBIAS	2.2143	1.78	-0.4343
59	100	HDR UNBIAS	1.8327	2.0267	0.194
60	100	HDR UNBIAS	1.9605	1.8929	-0.0676
91	0	CORRELATION	2.0359	2.1429	0.107
92	0	CORRELATION	1.764	1.763	-0.001
93	0	CORRELATION	1.9997	2.2386	0.2389
94	0	CORRELATION	2.0768	1.8503	-0.2265

Test Statistics ((1/fsw) s)

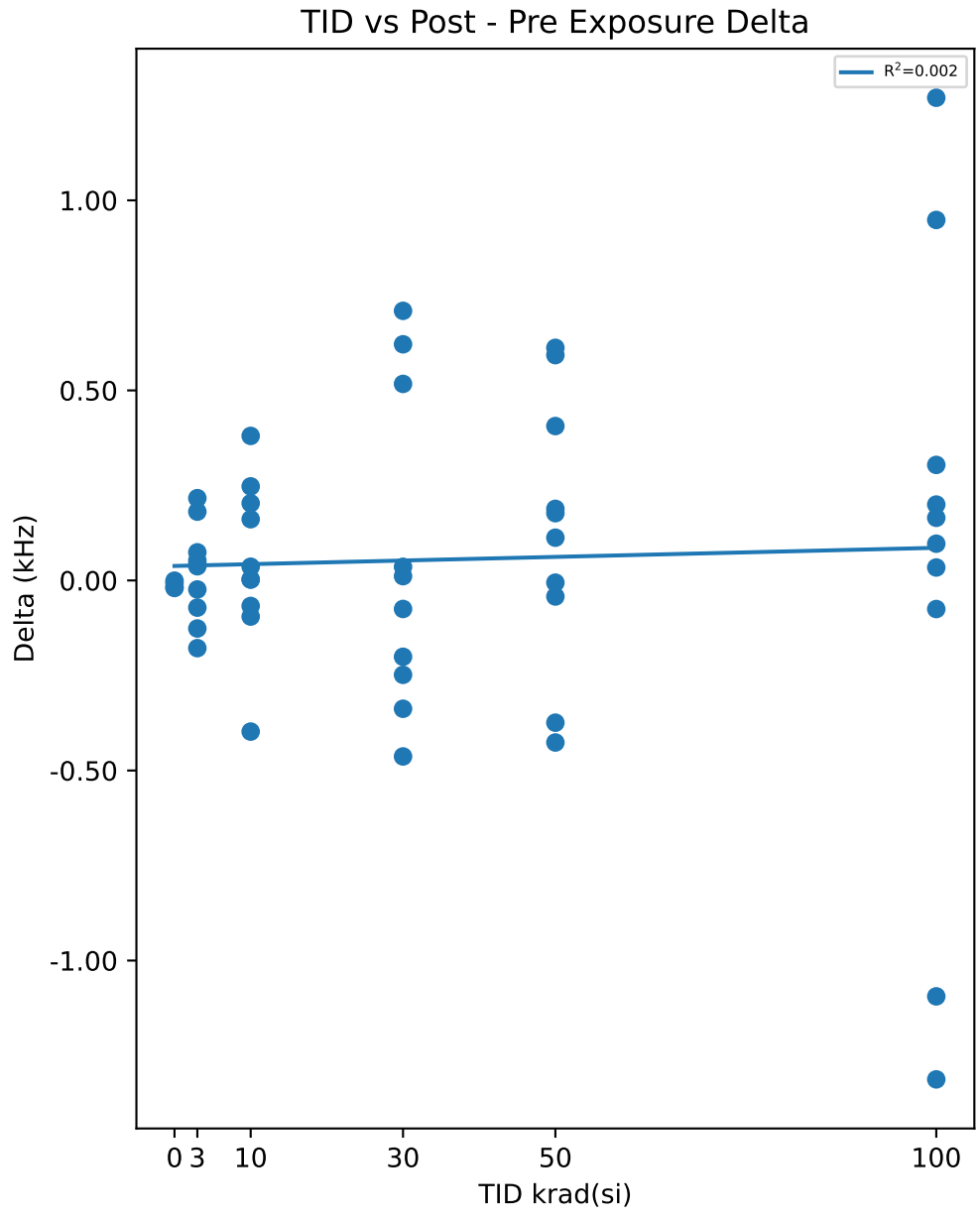
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.764	1.9691	2.0768	0.14031	1.763	1.9987	2.2386	0.22798	-0.2265	0.0296	0.2389	0.19691
3	1.7279	1.9208	2.127	0.15659	1.8042	1.9449	2.1525	0.11468	-0.1648	0.02405	0.2677	0.13852
10	1.7629	1.8817	2.018	0.098836	1.8356	2.0008	2.2455	0.15093	-0.1646	0.11911	0.33	0.16056
30	1.8821	1.9793	2.0762	0.060582	1.7752	2.0289	2.3658	0.19411	-0.2277	0.04959	0.4443	0.22743
50	1.7257	1.899	2.1105	0.10614	1.7893	1.9436	2.0763	0.10938	-0.1471	0.04459	0.3474	0.15688
100	1.8327	1.9639	2.2143	0.11363	1.78	1.9873	2.2041	0.12279	-0.4343	0.02334	0.2993	0.20749

Device Test: 20.27 LEVEL|FREQ/RT/12/12/0/0/5/100kHz//@FSW_EXT_RT_A

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

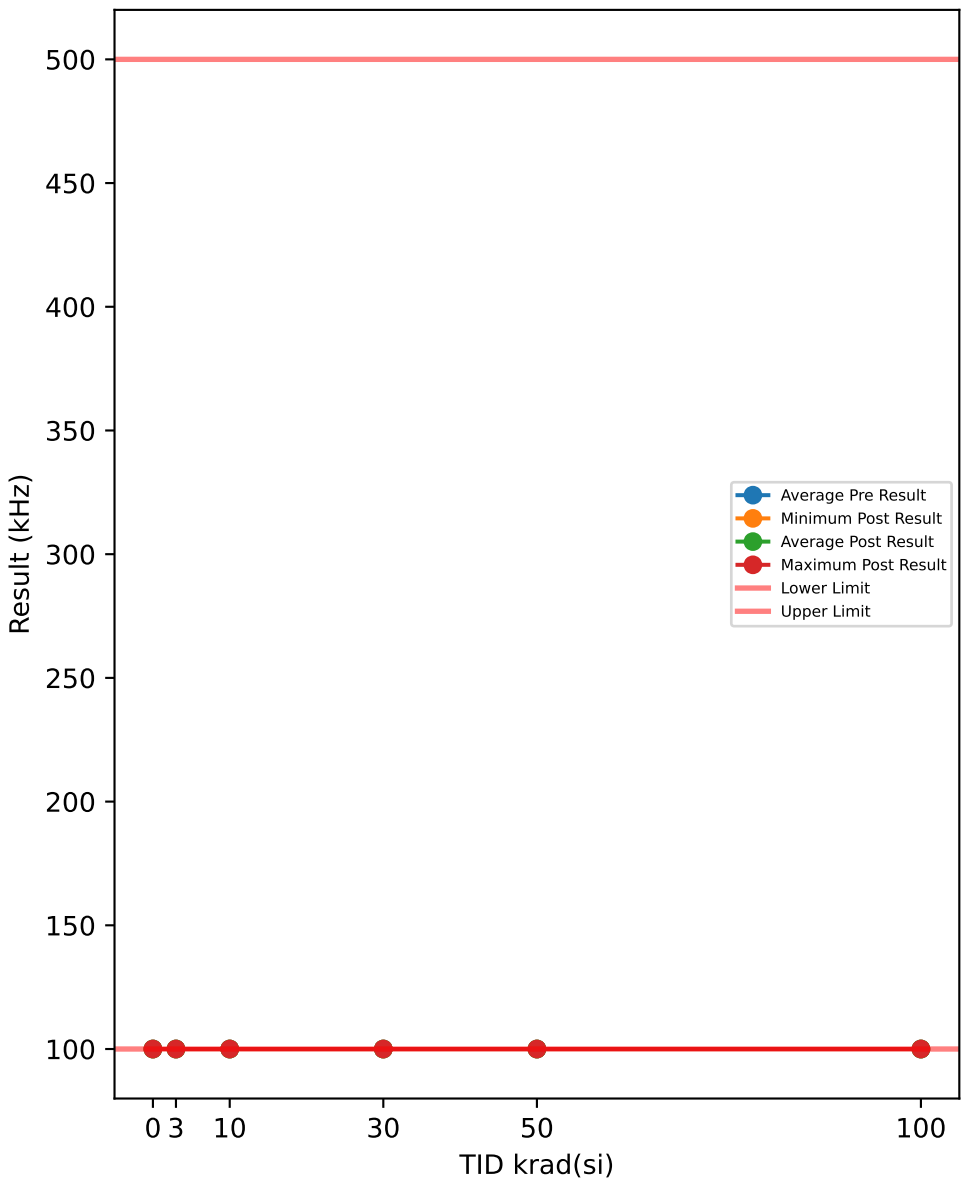
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	94.891	94.965	0.074
2	3	HDR BIAS	93.985	93.807	-0.1781
3	3	HDR BIAS	95.363	95.406	0.0434
4	3	HDR BIAS	94.114	94.295	0.181
5	3	HDR BIAS	95.738	95.775	0.0373
6	3	HDR UNBIAS	93.839	93.713	-0.1264
7	3	HDR UNBIAS	92.456	92.385	-0.0715
8	3	HDR UNBIAS	94.061	94.037	-0.0237
9	3	HDR UNBIAS	94.16	94.376	0.2165
10	3	HDR UNBIAS	92.929	92.982	0.0528
11	10	HDR BIAS	93.441	93.644	0.2031
12	10	HDR BIAS	93.243	93.623	0.3803
13	10	HDR BIAS	92.087	92.124	0.0361
14	10	HDR BIAS	95.515	95.518	0.0027
15	10	HDR BIAS	91.981	91.983	0.0024
16	10	HDR UNBIAS	94.353	94.286	-0.0671
17	10	HDR UNBIAS	90.024	90.185	0.1611
18	10	HDR UNBIAS	93.649	93.251	-0.3976
19	10	HDR UNBIAS	91.466	91.713	0.2475
20	10	HDR UNBIAS	94.488	94.393	-0.095
31	30	HDR BIAS	92.537	93.054	0.5171
32	30	HDR BIAS	92.391	92.316	-0.075
33	30	HDR BIAS	91.653	91.19	-0.463
34	30	HDR BIAS	93.122	92.921	-0.2008
35	30	HDR BIAS	93.539	93.551	0.0113
36	30	HDR UNBIAS	94.388	94.14	-0.2483
37	30	HDR UNBIAS	93.927	94.636	0.7093
38	30	HDR UNBIAS	94.183	94.219	0.0359
39	30	HDR UNBIAS	93.338	93.001	-0.3376
40	30	HDR UNBIAS	95.189	95.81	0.6213
41	50	HDR BIAS	96.744	96.37	-0.3742
42	50	HDR BIAS	95.385	95.343	-0.0422
43	50	HDR BIAS	96.709	96.822	0.1125
44	50	HDR BIAS	92.795	93.201	0.4062
45	50	HDR BIAS	92.985	92.979	-0.0058
46	50	HDR UNBIAS	95.422	95.6	0.177
47	50	HDR UNBIAS	93.705	94.298	0.5928
48	50	HDR UNBIAS	94.59	94.164	-0.4263
49	50	HDR UNBIAS	94.266	94.878	0.612
50	50	HDR UNBIAS	95.689	95.877	0.1884
51	100	HDR BIAS	95.596	95.761	0.1648
52	100	HDR BIAS	93.942	93.976	0.0341
53	100	HDR BIAS	92.411	93.68	1.2699
54	100	HDR BIAS	92.275	92.371	0.0967
55	100	HDR BIAS	93.402	93.327	-0.0752
56	100	HDR UNBIAS	94.707	93.394	-1.3126
57	100	HDR UNBIAS	90.631	91.579	0.9484
58	100	HDR UNBIAS	92.506	92.706	0.1997
59	100	HDR UNBIAS	95.036	95.34	0.304
60	100	HDR UNBIAS	93.404	92.31	-1.0942
91	0	CORRELATION	93.988	93.968	-0.0198
92	0	CORRELATION	94.536	94.535	-0.0006
93	0	CORRELATION	92.994	92.987	-0.0074
94	0	CORRELATION	94.603	94.585	-0.0182

Test Statistics (kHz)

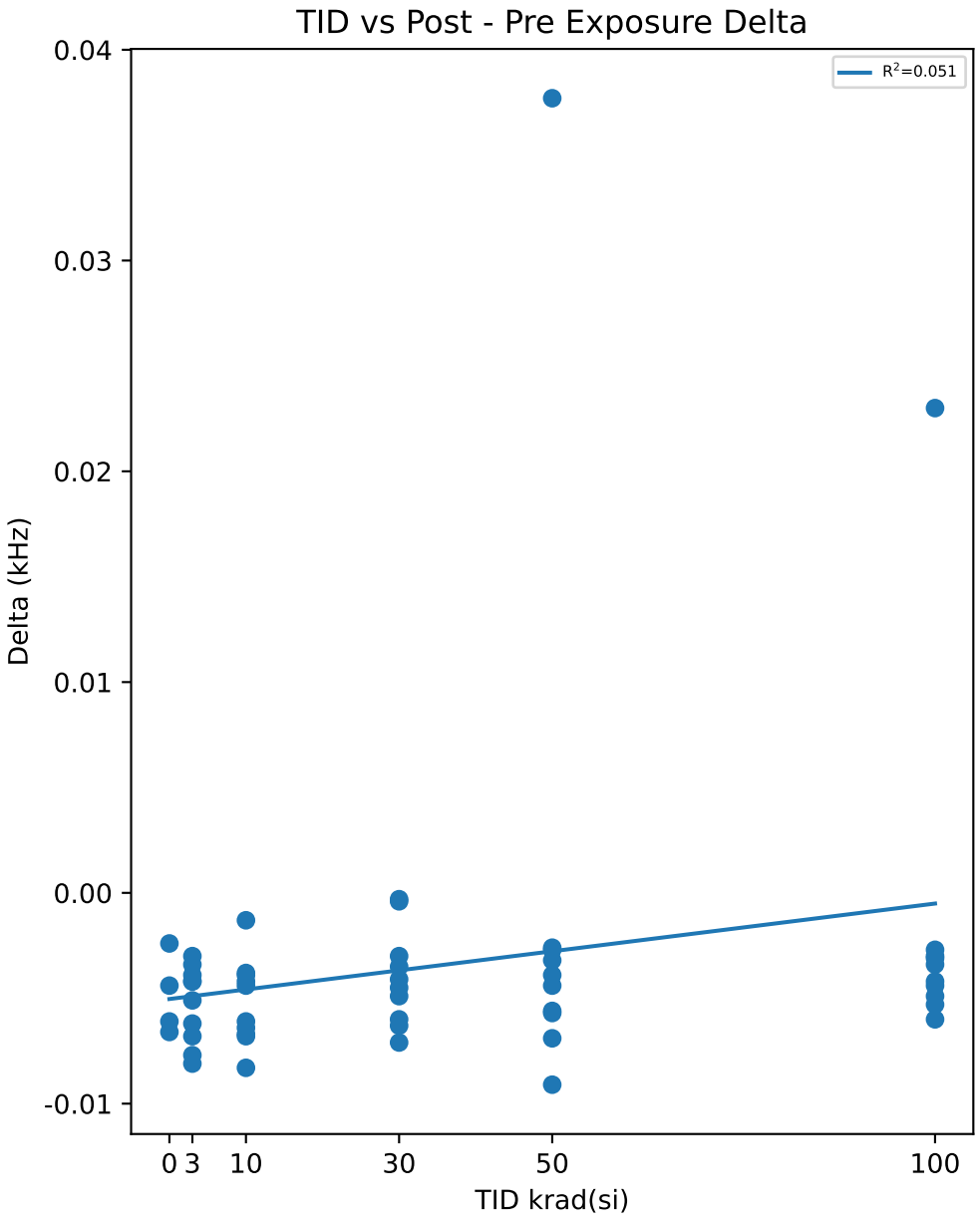
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.994	94.03	94.603	0.74364	92.987	94.019	94.585	0.74269	-0.0198	-0.0115	-0.0006	0.0091177
3	92.456	94.153	95.738	1.0018	92.385	94.174	95.775	1.0409	-0.1781	0.02053	0.2165	0.12487
10	90.024	93.025	95.515	1.6371	90.185	93.072	95.518	1.568	-0.3976	0.04735	0.3803	0.21695
30	91.653	93.427	95.189	1.0528	91.19	93.484	95.81	1.2942	-0.463	0.05702	0.7093	0.41651
50	92.795	94.829	96.744	1.4054	92.979	94.953	96.822	1.2887	-0.4263	0.12404	0.612	0.35593
100	90.631	93.391	95.596	1.4986	91.579	93.444	95.761	1.324	-1.3126	0.05356	1.2699	0.78735

Device Test: 20.28 LEVEL|FREQ/SYNC/12/12/0/0/5/100kHz//@FREQ_SYNC_EXT_503X

TID vs Result Stats



TID vs Post - Pre Exposure Delta



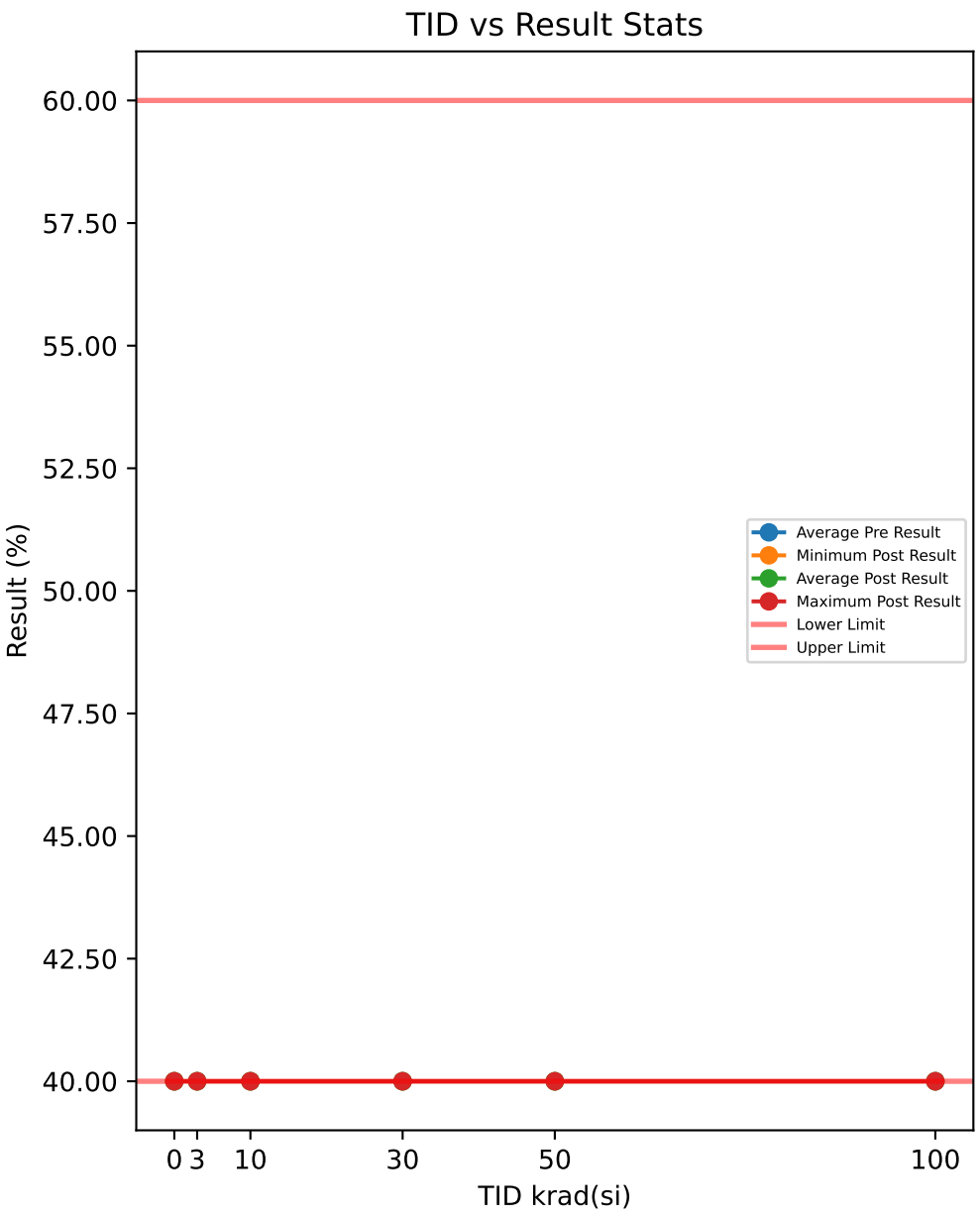
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

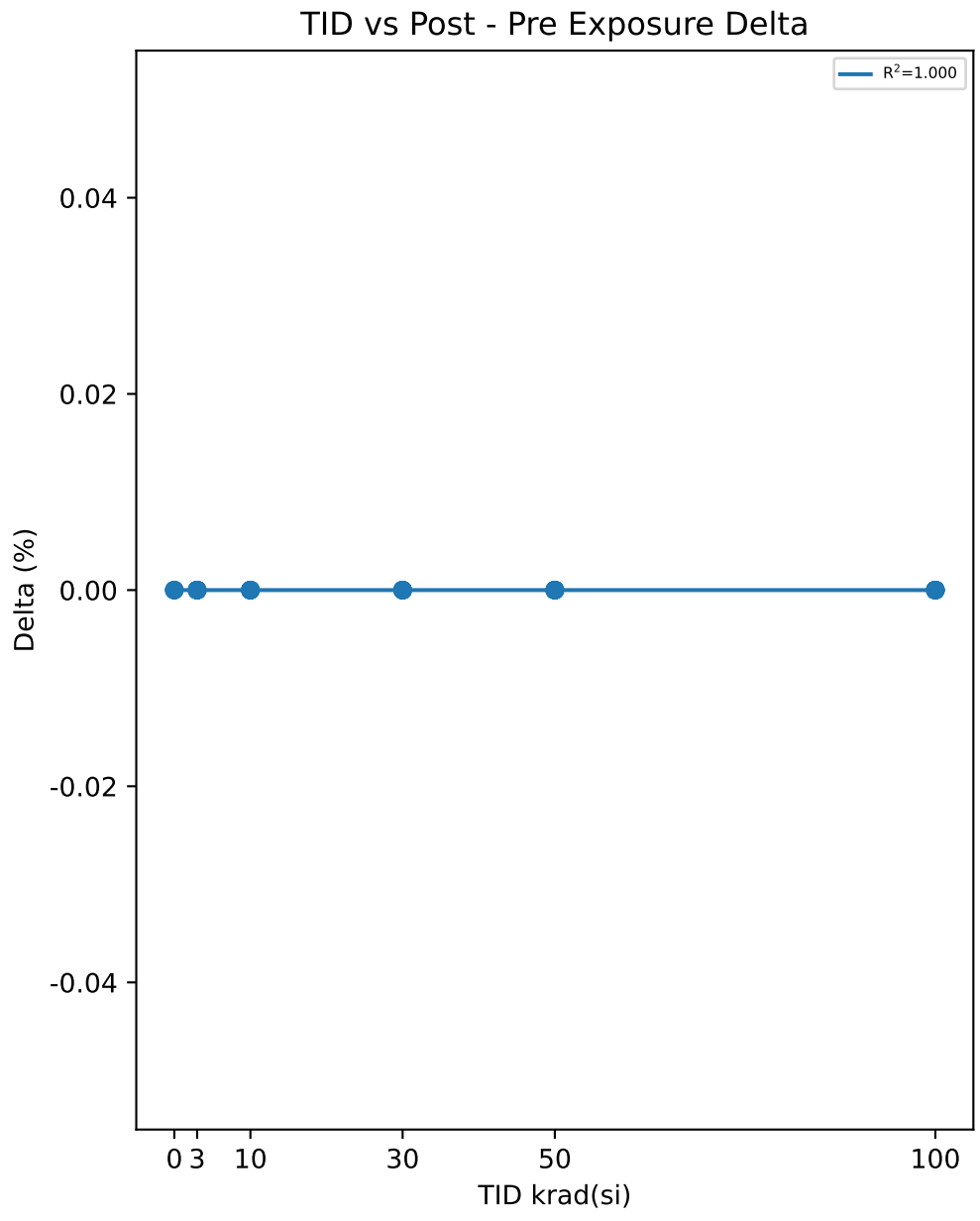
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	99.996	-0.0042
2	3	HDR BIAS	100	99.994	-0.0081
3	3	HDR BIAS	99.998	99.994	-0.0034
4	3	HDR BIAS	100	99.996	-0.0039
5	3	HDR BIAS	100	99.995	-0.0062
6	3	HDR UNBIAS	100	99.993	-0.0068
7	3	HDR UNBIAS	100	99.992	-0.0077
8	3	HDR UNBIAS	99.999	99.994	-0.0051
9	3	HDR UNBIAS	100	99.997	-0.003
10	3	HDR UNBIAS	100	99.996	-0.0042
11	10	HDR BIAS	100	99.993	-0.0083
12	10	HDR BIAS	100	99.994	-0.0064
13	10	HDR BIAS	100	99.997	-0.0042
14	10	HDR BIAS	99.999	99.995	-0.0044
15	10	HDR BIAS	99.999	99.992	-0.0061
16	10	HDR UNBIAS	99.998	99.994	-0.0039
17	10	HDR UNBIAS	99.999	99.998	-0.0013
18	10	HDR UNBIAS	99.998	99.994	-0.0038
19	10	HDR UNBIAS	99.999	99.992	-0.0068
20	10	HDR UNBIAS	100	99.994	-0.0067
31	30	HDR BIAS	99.997	99.993	-0.0045
32	30	HDR BIAS	99.999	99.995	-0.0035
33	30	HDR BIAS	100	100	-0.0003
34	30	HDR BIAS	100	99.993	-0.0063
35	30	HDR BIAS	100	99.993	-0.0071
36	30	HDR UNBIAS	99.999	99.996	-0.003
37	30	HDR UNBIAS	99.999	99.999	-0.0004
38	30	HDR UNBIAS	100	99.995	-0.006
39	30	HDR UNBIAS	99.998	99.994	-0.0041
40	30	HDR UNBIAS	99.999	99.994	-0.0049
41	50	HDR BIAS	100	99.998	-0.0026
42	50	HDR BIAS	100	99.996	-0.0044
43	50	HDR BIAS	99.998	99.995	-0.0032
44	50	HDR BIAS	100	99.994	-0.0069
45	50	HDR BIAS	99.999	99.994	-0.0056
46	50	HDR UNBIAS	99.999	99.993	-0.0057
47	50	HDR UNBIAS	100	99.992	-0.0091
48	50	HDR UNBIAS	99.998	99.995	-0.0027
49	50	HDR UNBIAS	100	99.996	-0.0039
50	50	HDR UNBIAS	99.956	99.993	0.0377
51	100	HDR BIAS	99.997	99.994	-0.0034
52	100	HDR BIAS	99.999	99.996	-0.003
53	100	HDR BIAS	100	99.998	-0.0027
54	100	HDR BIAS	100	99.996	-0.0042
55	100	HDR BIAS	99.999	99.994	-0.0049
56	100	HDR UNBIAS	100	99.995	-0.0044
57	100	HDR UNBIAS	99.977	100	0.023
58	100	HDR UNBIAS	100	99.995	-0.0053
59	100	HDR UNBIAS	99.998	99.992	-0.006
60	100	HDR UNBIAS	99.998	99.995	-0.0031
91	0	CORRELATION	100	99.998	-0.0044
92	0	CORRELATION	99.998	99.995	-0.0024
93	0	CORRELATION	99.999	99.992	-0.0066
94	0	CORRELATION	100	99.993	-0.0061

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.998	99.999	100	0.0018385	99.992	99.995	99.998	0.0023768	-0.0066	-0.004875	-0.0024	0.0018998
3	99.998	100	100	0.0010914	99.992	99.995	99.997	0.0015313	-0.0081	-0.00526	-0.003	0.0018246
10	99.998	100	100	0.0011549	99.992	99.994	99.998	0.0018215	-0.0083	-0.00519	-0.0013	0.0020322
30	99.997	99.999	100	0.0011643	99.993	99.995	100	0.0025063	-0.0071	-0.00401	-0.0003	0.0023062
50	99.956	99.995	100	0.013939	99.992	99.995	99.998	0.001858	-0.0091	-0.00064	0.0377	0.013623
100	99.977	99.997	100	0.0071938	99.992	99.995	100	0.0020628	-0.006	-0.0014	0.023	0.0086407

Device Test: 20.29 PF|DCL_40/SYNC/12/12/0/0/5/100kHz//@DUTY_SYNC_EXT





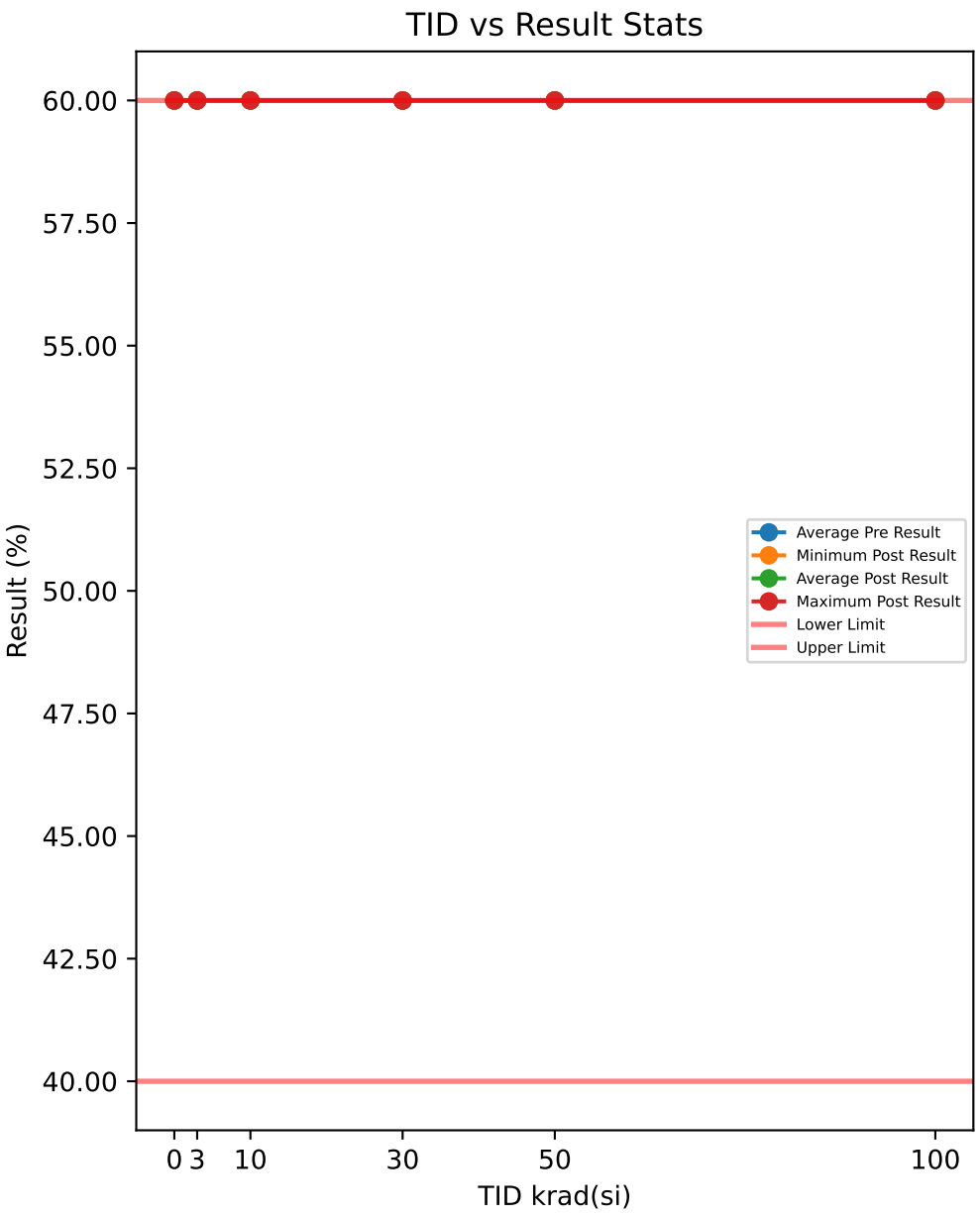
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

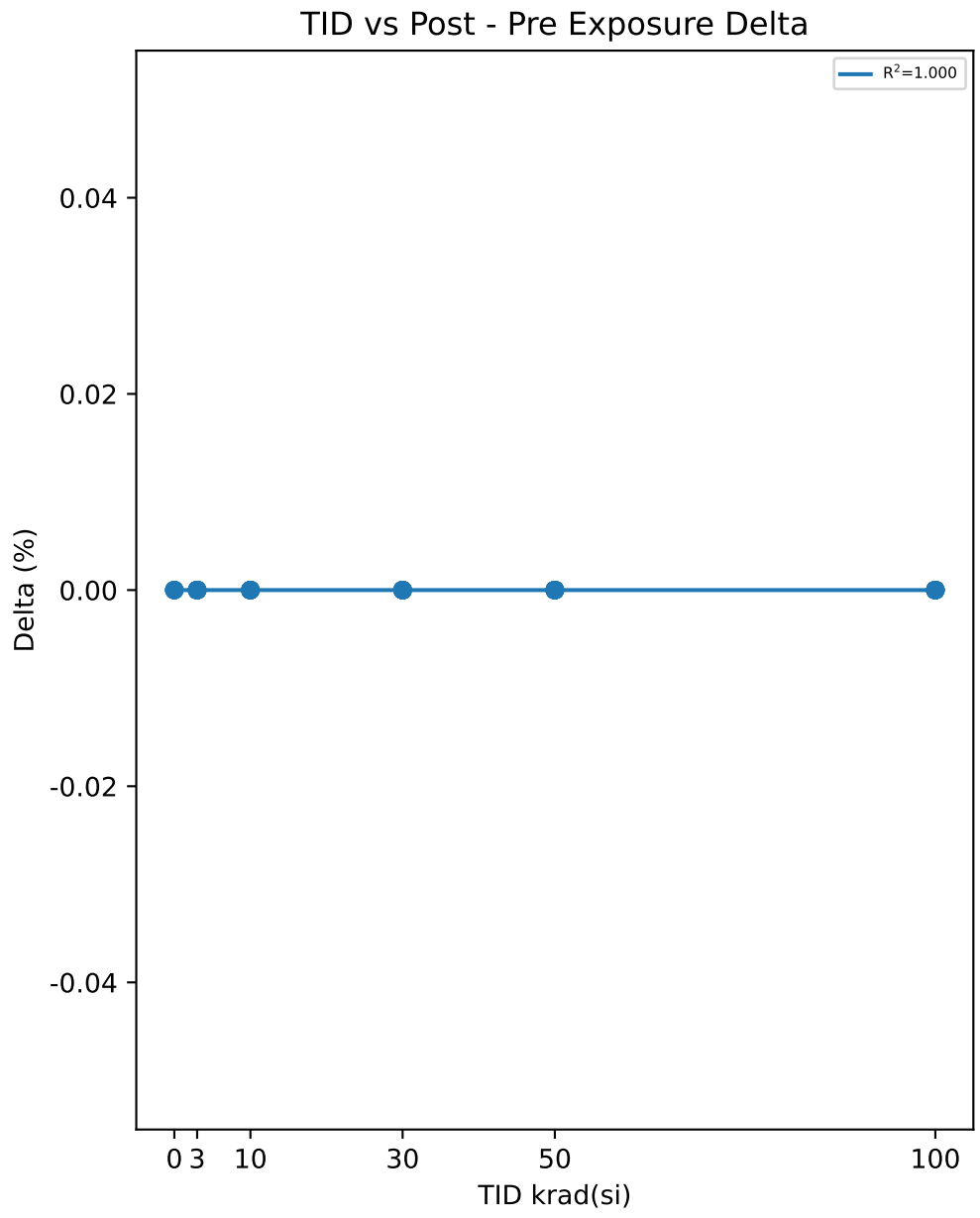
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	40	40	0
2	3	HDR BIAS	40	40	0
3	3	HDR BIAS	40	40	0
4	3	HDR BIAS	40	40	0
5	3	HDR BIAS	40	40	0
6	3	HDR UNBIAS	40	40	0
7	3	HDR UNBIAS	40	40	0
8	3	HDR UNBIAS	40	40	0
9	3	HDR UNBIAS	40	40	0
10	3	HDR UNBIAS	40	40	0
11	10	HDR BIAS	40	40	0
12	10	HDR BIAS	40	40	0
13	10	HDR BIAS	40	40	0
14	10	HDR BIAS	40	40	0
15	10	HDR BIAS	40	40	0
16	10	HDR UNBIAS	40	40	0
17	10	HDR UNBIAS	40	40	0
18	10	HDR UNBIAS	40	40	0
19	10	HDR UNBIAS	40	40	0
20	10	HDR UNBIAS	40	40	0
31	30	HDR BIAS	40	40	0
32	30	HDR BIAS	40	40	0
33	30	HDR BIAS	40	40	0
34	30	HDR BIAS	40	40	0
35	30	HDR BIAS	40	40	0
36	30	HDR UNBIAS	40	40	0
37	30	HDR UNBIAS	40	40	0
38	30	HDR UNBIAS	40	40	0
39	30	HDR UNBIAS	40	40	0
40	30	HDR UNBIAS	40	40	0
41	50	HDR BIAS	40	40	0
42	50	HDR BIAS	40	40	0
43	50	HDR BIAS	40	40	0
44	50	HDR BIAS	40	40	0
45	50	HDR BIAS	40	40	0
46	50	HDR UNBIAS	40	40	0
47	50	HDR UNBIAS	40	40	0
48	50	HDR UNBIAS	40	40	0
49	50	HDR UNBIAS	40	40	0
50	50	HDR UNBIAS	40	40	0
51	100	HDR BIAS	40	40	0
52	100	HDR BIAS	40	40	0
53	100	HDR BIAS	40	40	0
54	100	HDR BIAS	40	40	0
55	100	HDR BIAS	40	40	0
56	100	HDR UNBIAS	40	40	0
57	100	HDR UNBIAS	40	40	0
58	100	HDR UNBIAS	40	40	0
59	100	HDR UNBIAS	40	40	0
60	100	HDR UNBIAS	40	40	0
91	0	CORRELATION	40	40	0
92	0	CORRELATION	40	40	0
93	0	CORRELATION	40	40	0
94	0	CORRELATION	40	40	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	40	40	40	0	40	40	40	0	0	0	0	0
3	40	40	40	0	40	40	40	0	0	0	0	0
10	40	40	40	0	40	40	40	0	0	0	0	0
30	40	40	40	0	40	40	40	0	0	0	0	0
50	40	40	40	0	40	40	40	0	0	0	0	0
100	40	40	40	0	40	40	40	0	0	0	0	0

Device Test: 20.30 PF|DCL_60/SYNC/12/12/0/0/5/100kHz//@DUTY_SYNC_EXT





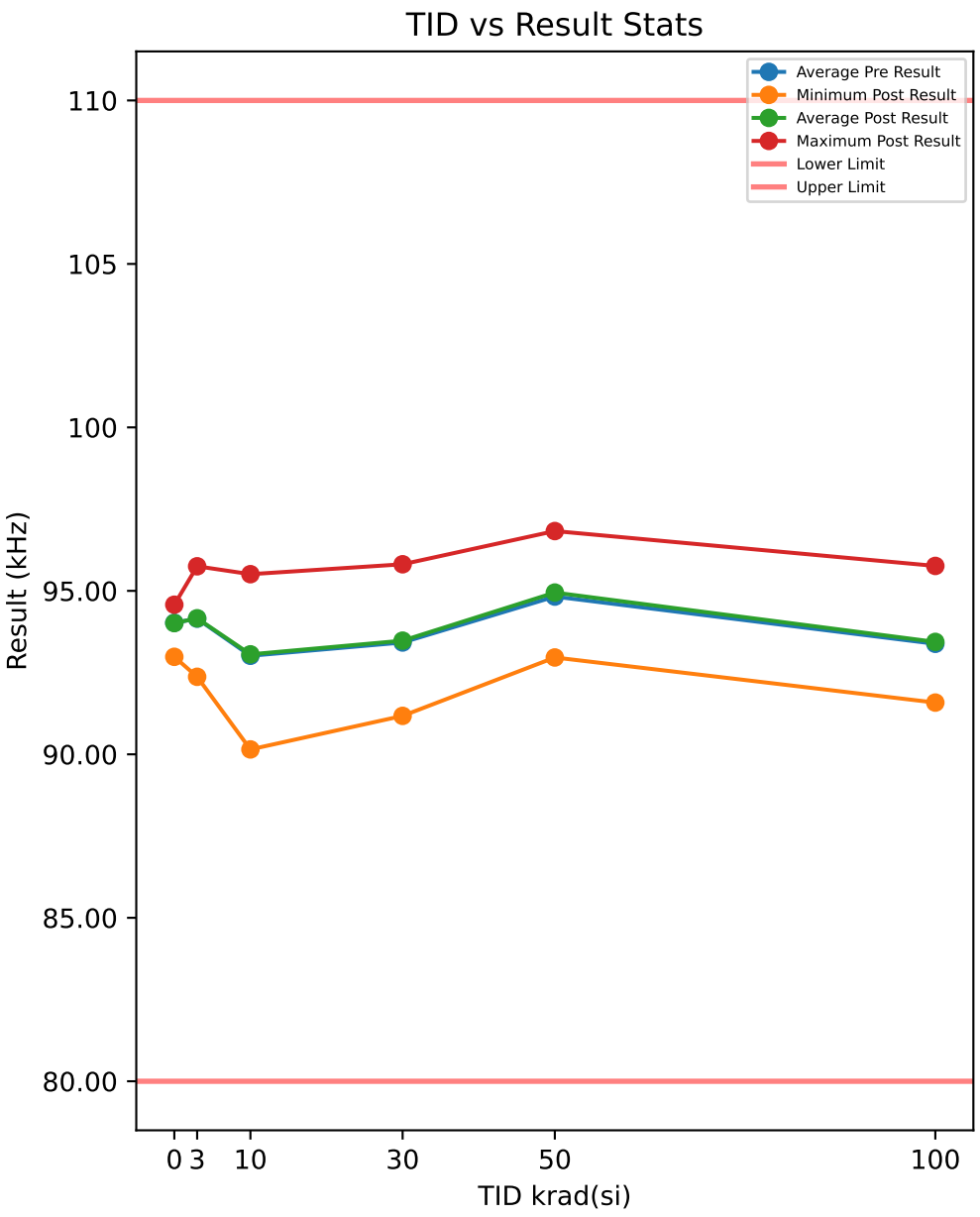
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

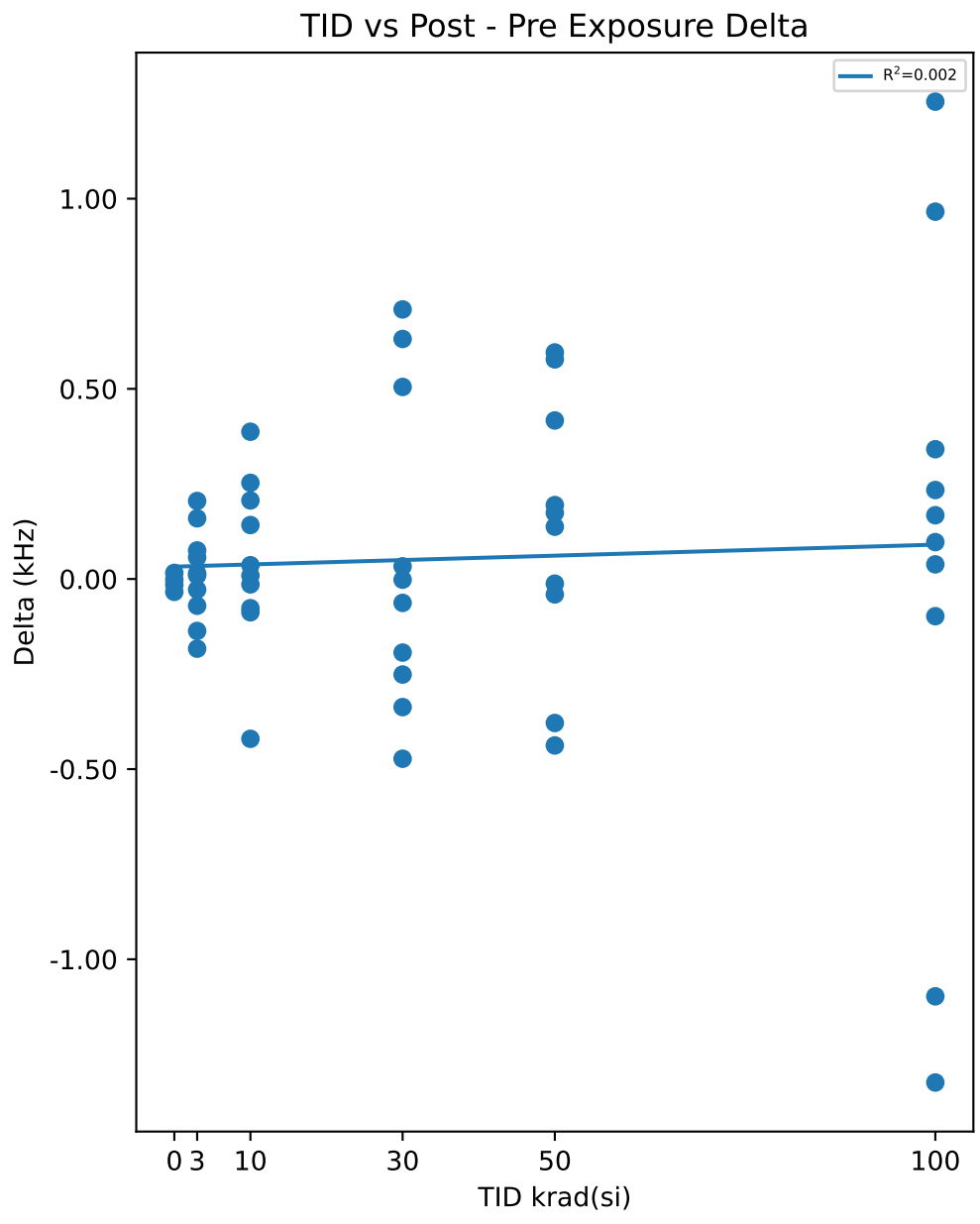
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	60	60	0
2	3	HDR BIAS	60	60	0
3	3	HDR BIAS	60	60	0
4	3	HDR BIAS	60	60	0
5	3	HDR BIAS	60	60	0
6	3	HDR UNBIAS	60	60	0
7	3	HDR UNBIAS	60	60	0
8	3	HDR UNBIAS	60	60	0
9	3	HDR UNBIAS	60	60	0
10	3	HDR UNBIAS	60	60	0
11	10	HDR BIAS	60	60	0
12	10	HDR BIAS	60	60	0
13	10	HDR BIAS	60	60	0
14	10	HDR BIAS	60	60	0
15	10	HDR BIAS	60	60	0
16	10	HDR UNBIAS	60	60	0
17	10	HDR UNBIAS	60	60	0
18	10	HDR UNBIAS	60	60	0
19	10	HDR UNBIAS	60	60	0
20	10	HDR UNBIAS	60	60	0
31	30	HDR BIAS	60	60	0
32	30	HDR BIAS	60	60	0
33	30	HDR BIAS	60	60	0
34	30	HDR BIAS	60	60	0
35	30	HDR BIAS	60	60	0
36	30	HDR UNBIAS	60	60	0
37	30	HDR UNBIAS	60	60	0
38	30	HDR UNBIAS	60	60	0
39	30	HDR UNBIAS	60	60	0
40	30	HDR UNBIAS	60	60	0
41	50	HDR BIAS	60	60	0
42	50	HDR BIAS	60	60	0
43	50	HDR BIAS	60	60	0
44	50	HDR BIAS	60	60	0
45	50	HDR BIAS	60	60	0
46	50	HDR UNBIAS	60	60	0
47	50	HDR UNBIAS	60	60	0
48	50	HDR UNBIAS	60	60	0
49	50	HDR UNBIAS	60	60	0
50	50	HDR UNBIAS	60	60	0
51	100	HDR BIAS	60	60	0
52	100	HDR BIAS	60	60	0
53	100	HDR BIAS	60	60	0
54	100	HDR BIAS	60	60	0
55	100	HDR BIAS	60	60	0
56	100	HDR UNBIAS	60	60	0
57	100	HDR UNBIAS	60	60	0
58	100	HDR UNBIAS	60	60	0
59	100	HDR UNBIAS	60	60	0
60	100	HDR UNBIAS	60	60	0
91	0	CORRELATION	60	60	0
92	0	CORRELATION	60	60	0
93	0	CORRELATION	60	60	0
94	0	CORRELATION	60	60	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	60	60	60	0	60	60	60	0	0	0	0	0
3	60	60	60	0	60	60	60	0	0	0	0	0
10	60	60	60	0	60	60	60	0	0	0	0	0
30	60	60	60	0	60	60	60	0	0	0	0	0
50	60	60	60	0	60	60	60	0	0	0	0	0
100	60	60	60	0	60	60	60	0	0	0	0	0

Device Test: 20.31 LEVEL|FREQ/RT/14/14/0/0/5/100kHz//@FSW_EXT_RT_A





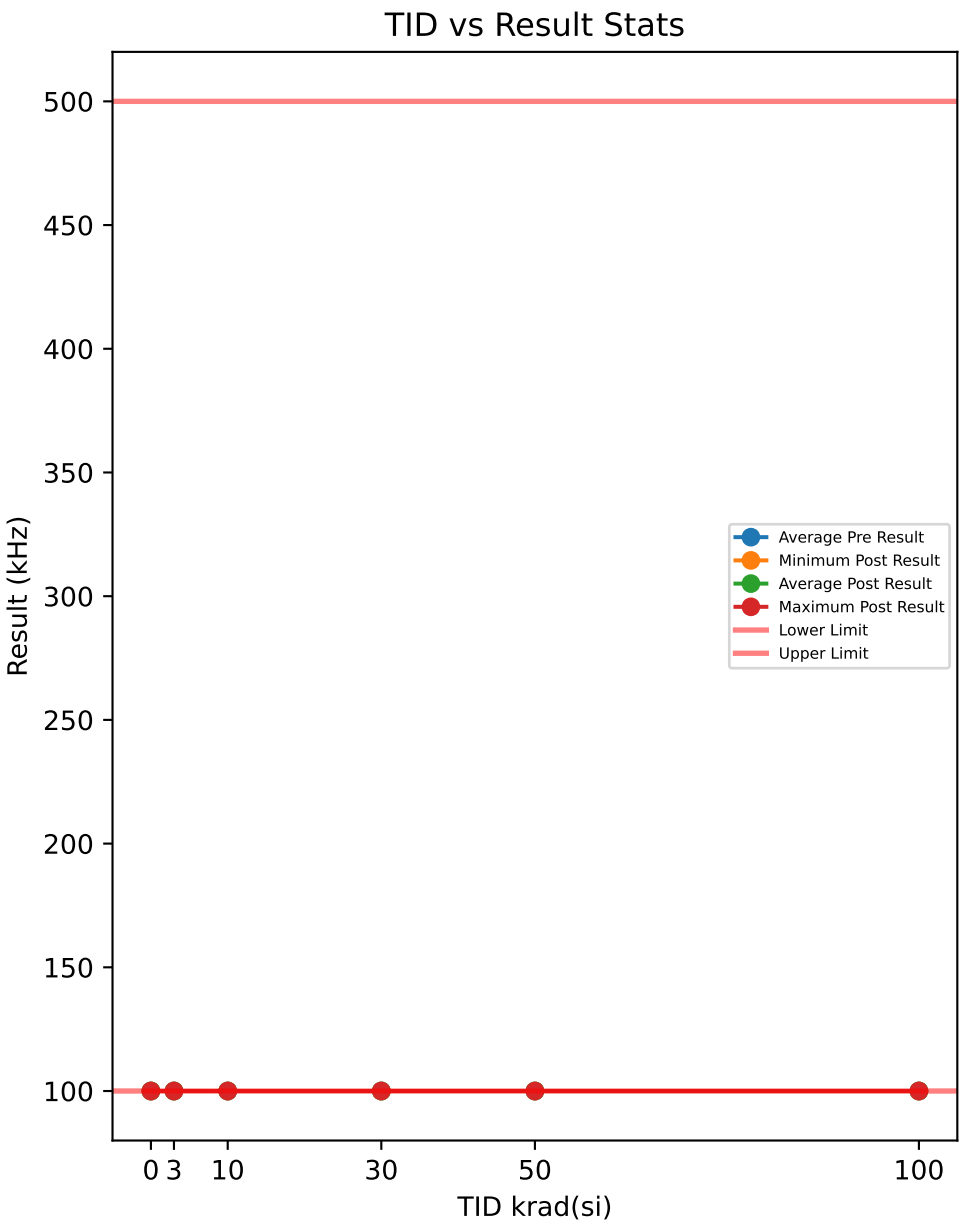
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

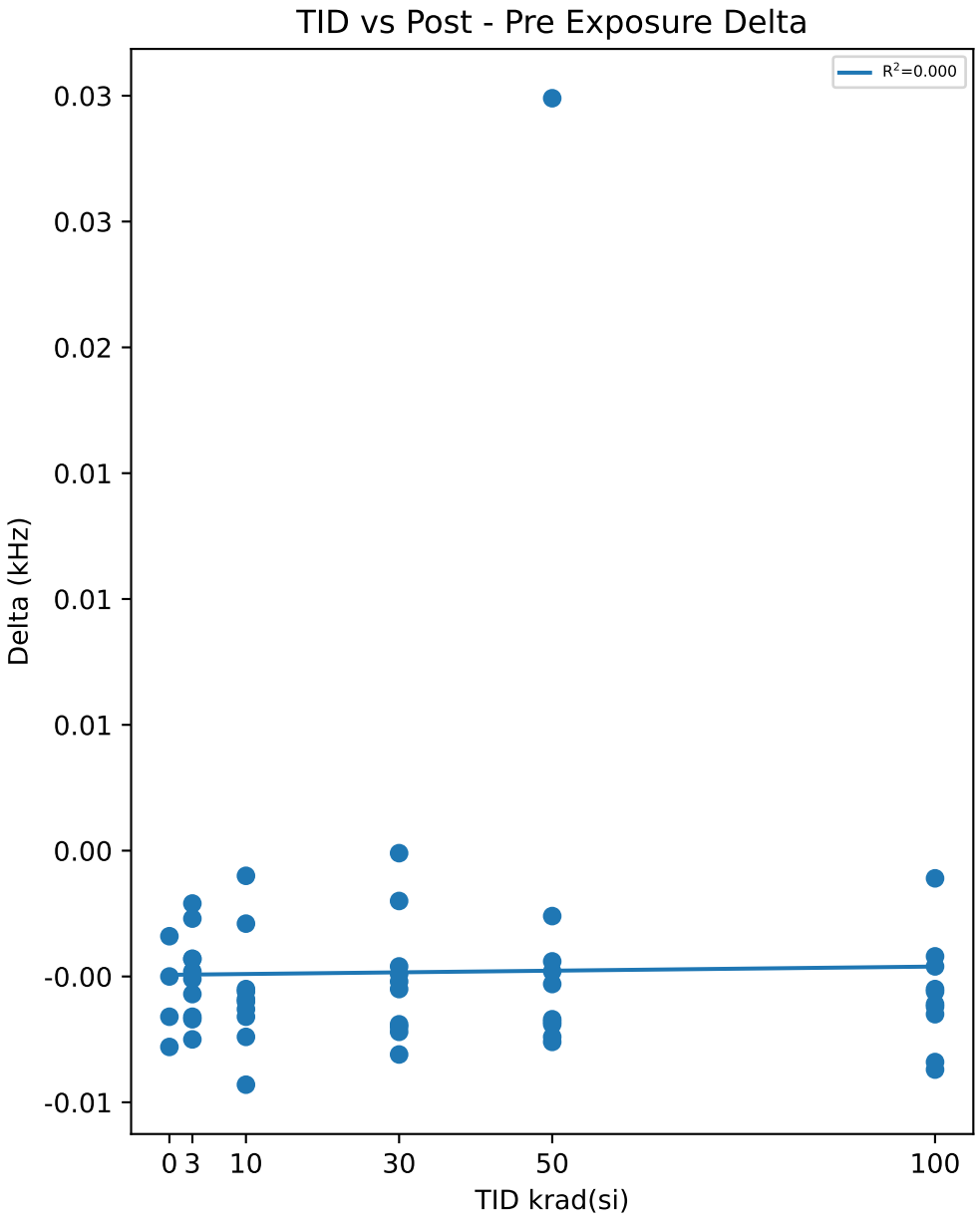
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	94.884	94.941	0.0568
2	3	HDR BIAS	93.981	93.797	-0.1833
3	3	HDR BIAS	95.371	95.385	0.0149
4	3	HDR BIAS	94.115	94.275	0.1595
5	3	HDR BIAS	95.742	95.751	0.0095
6	3	HDR UNBIAS	93.834	93.698	-0.1367
7	3	HDR UNBIAS	92.442	92.371	-0.0704
8	3	HDR UNBIAS	94.057	94.029	-0.028
9	3	HDR UNBIAS	94.155	94.361	0.2051
10	3	HDR UNBIAS	92.92	92.995	0.0751
11	10	HDR BIAS	93.421	93.628	0.2065
12	10	HDR BIAS	93.231	93.618	0.3872
13	10	HDR BIAS	92.085	92.121	0.0362
14	10	HDR BIAS	95.501	95.51	0.0089
15	10	HDR BIAS	91.988	91.974	-0.0142
16	10	HDR UNBIAS	94.347	94.27	-0.0768
17	10	HDR UNBIAS	90.008	90.15	0.1418
18	10	HDR UNBIAS	93.643	93.222	-0.4203
19	10	HDR UNBIAS	91.447	91.7	0.2528
20	10	HDR UNBIAS	94.474	94.386	-0.0876
31	30	HDR BIAS	92.53	93.035	0.505
32	30	HDR BIAS	92.382	92.319	-0.0629
33	30	HDR BIAS	91.649	91.176	-0.4727
34	30	HDR BIAS	93.111	92.918	-0.1936
35	30	HDR BIAS	93.533	93.531	-0.0019
36	30	HDR UNBIAS	94.373	94.122	-0.2513
37	30	HDR UNBIAS	93.921	94.629	0.7088
38	30	HDR UNBIAS	94.185	94.218	0.0333
39	30	HDR UNBIAS	93.342	93.005	-0.3369
40	30	HDR UNBIAS	95.182	95.813	0.6311
41	50	HDR BIAS	96.74	96.362	-0.3787
42	50	HDR BIAS	95.385	95.345	-0.0406
43	50	HDR BIAS	96.692	96.829	0.1374
44	50	HDR BIAS	92.784	93.201	0.4168
45	50	HDR BIAS	92.974	92.962	-0.0123
46	50	HDR UNBIAS	95.422	95.596	0.1738
47	50	HDR UNBIAS	93.714	94.292	0.5775
48	50	HDR UNBIAS	94.59	94.152	-0.4378
49	50	HDR UNBIAS	94.268	94.864	0.5956
50	50	HDR UNBIAS	95.682	95.876	0.1943
51	100	HDR BIAS	95.595	95.763	0.1676
52	100	HDR BIAS	93.937	93.975	0.0384
53	100	HDR BIAS	92.4	93.655	1.2552
54	100	HDR BIAS	92.261	92.358	0.0969
55	100	HDR BIAS	93.397	93.3	-0.0979
56	100	HDR UNBIAS	94.704	93.38	-1.3241
57	100	HDR UNBIAS	90.617	91.582	0.9659
58	100	HDR UNBIAS	92.482	92.716	0.2339
59	100	HDR UNBIAS	95.013	95.354	0.3412
60	100	HDR UNBIAS	93.397	92.299	-1.0975
91	0	CORRELATION	93.985	93.969	-0.0152
92	0	CORRELATION	94.532	94.53	-0.0019
93	0	CORRELATION	92.966	92.982	0.016
94	0	CORRELATION	94.61	94.576	-0.0339

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.966	94.023	94.61	0.75745	92.982	94.014	94.576	0.74121	-0.0339	-0.00875	0.016	0.021084
3	92.442	94.15	95.742	1.0074	92.371	94.16	95.751	1.0337	-0.1833	0.01025	0.2051	0.12187
10	90.008	93.015	95.501	1.6367	90.15	93.058	95.51	1.573	-0.4203	0.04345	0.3872	0.22349
30	91.649	93.421	95.182	1.0525	91.176	93.477	95.813	1.2962	-0.4727	0.05589	0.7088	0.41728
50	92.784	94.825	96.74	1.4043	92.962	94.948	96.829	1.2928	-0.4378	0.1226	0.5956	0.35518
100	90.617	93.38	95.595	1.5015	91.582	93.438	95.763	1.3276	-1.3241	0.05796	1.2552	0.79249

Device Test: 20.32 LEVEL|FREQ/SYNC/14/14/0/0/5/100kHz//@FREQ_SYNC_EXT_503X





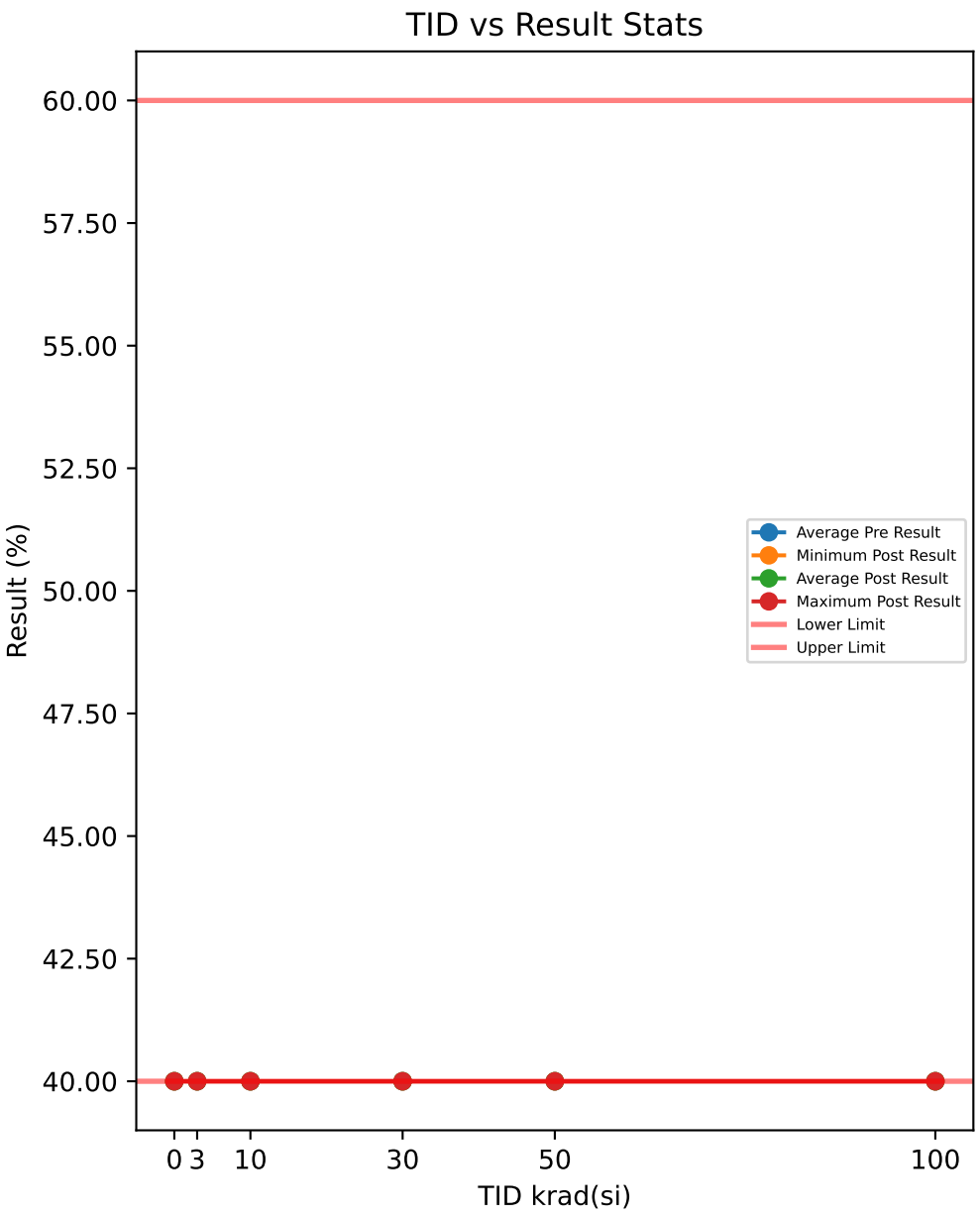
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

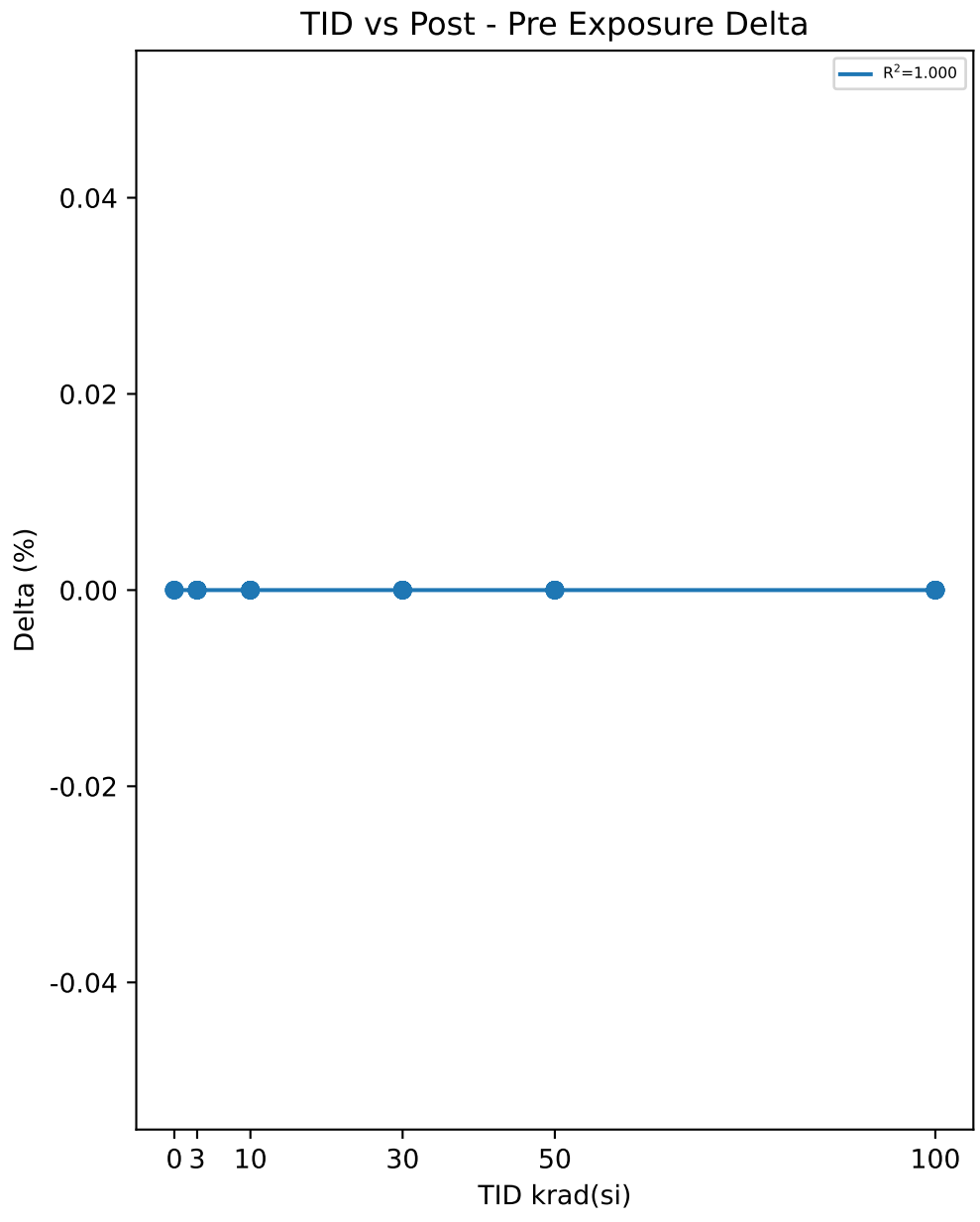
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	99.996	-0.0043
2	3	HDR BIAS	99.999	99.995	-0.0043
3	3	HDR BIAS	100	99.992	-0.0075
4	3	HDR BIAS	99.998	99.996	-0.0027
5	3	HDR BIAS	99.999	99.996	-0.0021
6	3	HDR UNBIAS	99.998	99.993	-0.0048
7	3	HDR UNBIAS	99.999	99.993	-0.0067
8	3	HDR UNBIAS	100	99.994	-0.0057
9	3	HDR UNBIAS	100	99.996	-0.0051
10	3	HDR UNBIAS	100	99.993	-0.0066
11	10	HDR BIAS	100	99.992	-0.0093
12	10	HDR BIAS	99.999	99.994	-0.0059
13	10	HDR BIAS	100	100	-0.001
14	10	HDR BIAS	100	99.994	-0.006
15	10	HDR BIAS	100	99.994	-0.0063
16	10	HDR UNBIAS	100	99.994	-0.0055
17	10	HDR UNBIAS	99.999	99.996	-0.0029
18	10	HDR UNBIAS	100	99.993	-0.0066
19	10	HDR UNBIAS	100	99.993	-0.0074
20	10	HDR UNBIAS	100	99.994	-0.0056
31	30	HDR BIAS	100	99.993	-0.0072
32	30	HDR BIAS	100	99.993	-0.0081
33	30	HDR BIAS	99.998	99.998	-0.0001
34	30	HDR BIAS	100	99.994	-0.007
35	30	HDR BIAS	99.999	99.993	-0.0069
36	30	HDR UNBIAS	100	99.994	-0.0052
37	30	HDR UNBIAS	100	99.999	-0.002
38	30	HDR UNBIAS	100	99.996	-0.0046
39	30	HDR UNBIAS	99.998	99.993	-0.0055
40	30	HDR UNBIAS	99.999	99.994	-0.0049
41	50	HDR BIAS	99.999	99.995	-0.0048
42	50	HDR BIAS	99.999	99.993	-0.0067
43	50	HDR BIAS	99.999	99.992	-0.0069
44	50	HDR BIAS	100	99.994	-0.0076
45	50	HDR BIAS	99.965	99.995	0.0299
46	50	HDR UNBIAS	99.998	99.993	-0.0053
47	50	HDR UNBIAS	100	99.993	-0.0074
48	50	HDR UNBIAS	99.998	99.996	-0.0026
49	50	HDR UNBIAS	99.998	99.993	-0.0044
50	50	HDR UNBIAS	99.999	99.992	-0.0068
51	100	HDR BIAS	99.998	99.992	-0.0061
52	100	HDR BIAS	100	99.996	-0.0046
53	100	HDR BIAS	100	99.994	-0.0065
54	100	HDR BIAS	99.998	99.993	-0.0055
55	100	HDR BIAS	100	99.992	-0.0087
56	100	HDR UNBIAS	100	99.995	-0.0062
57	100	HDR UNBIAS	99.998	99.996	-0.0011
58	100	HDR UNBIAS	99.999	99.993	-0.0056
59	100	HDR UNBIAS	100	99.992	-0.0084
60	100	HDR UNBIAS	99.999	99.995	-0.0042
91	0	CORRELATION	99.999	99.996	-0.0034
92	0	CORRELATION	100	99.995	-0.005
93	0	CORRELATION	100	99.992	-0.0078
94	0	CORRELATION	100	99.995	-0.0066

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.999	100	100	0.00068007	99.992	99.994	99.996	0.0015414	-0.0078	-0.0057	-0.0034	0.0019149
3	99.998	99.999	100	0.00079449	99.992	99.994	99.996	0.0014887	-0.0075	-0.00498	-0.0021	0.0017294
10	99.999	100	100	0.00066005	99.992	99.994	100	0.0023687	-0.0093	-0.00565	-0.001	0.0022878
30	99.998	100	100	0.0011223	99.993	99.995	99.999	0.0021198	-0.0081	-0.00515	-0.0001	0.0024789
50	99.965	99.996	100	0.010938	99.992	99.994	99.996	0.001116	-0.0076	-0.00226	0.0299	0.011409
100	99.998	100	100	0.0013006	99.992	99.994	99.996	0.0016153	-0.0087	-0.00569	-0.0011	0.0021605

Device Test: 20.33 PF|DCL_40/SYNC/14/14/0/0/5/100kHz//@DUTY_SYNC_EXT





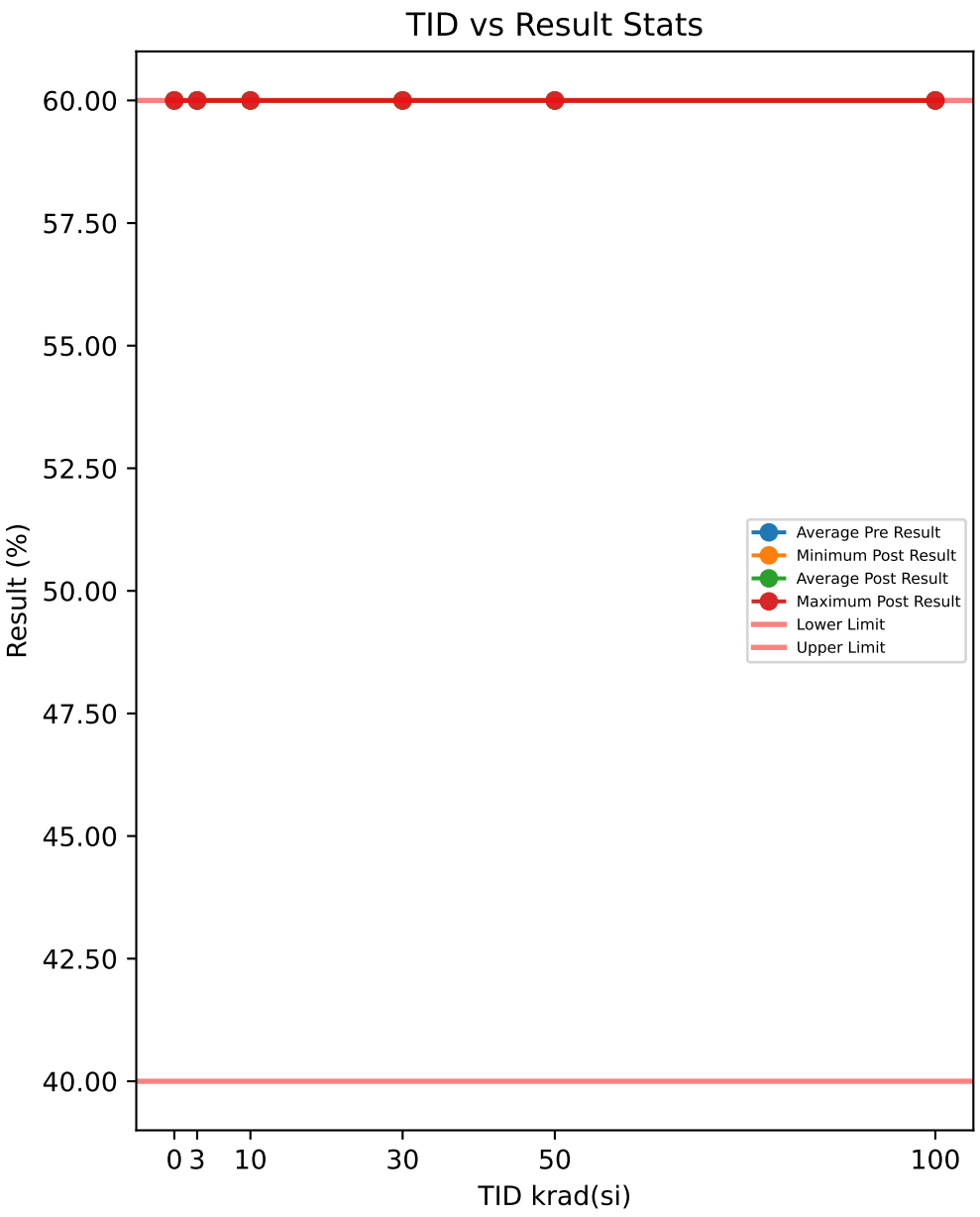
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

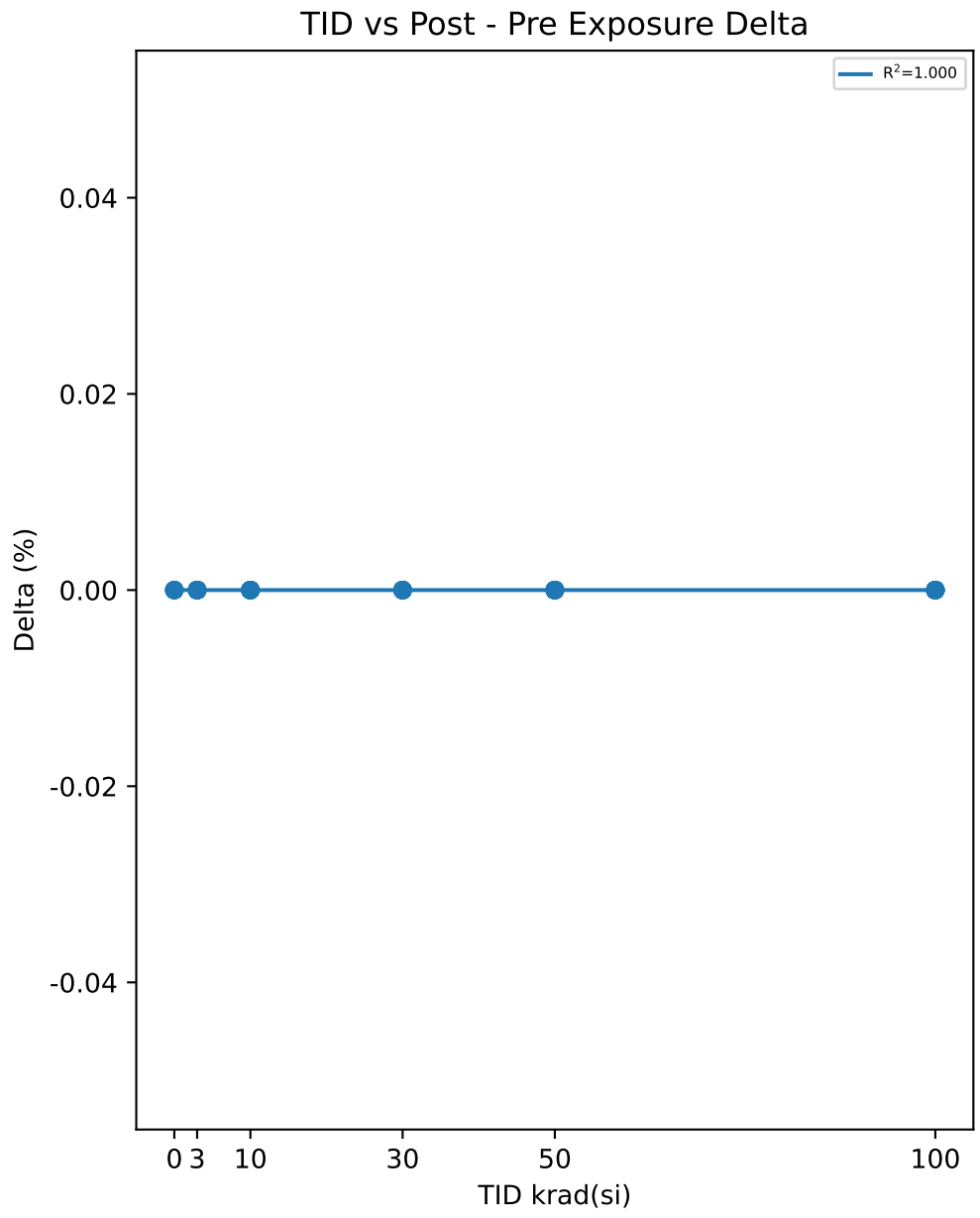
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	40	40	0
2	3	HDR BIAS	40	40	0
3	3	HDR BIAS	40	40	0
4	3	HDR BIAS	40	40	0
5	3	HDR BIAS	40	40	0
6	3	HDR UNBIAS	40	40	0
7	3	HDR UNBIAS	40	40	0
8	3	HDR UNBIAS	40	40	0
9	3	HDR UNBIAS	40	40	0
10	3	HDR UNBIAS	40	40	0
11	10	HDR BIAS	40	40	0
12	10	HDR BIAS	40	40	0
13	10	HDR BIAS	40	40	0
14	10	HDR BIAS	40	40	0
15	10	HDR BIAS	40	40	0
16	10	HDR UNBIAS	40	40	0
17	10	HDR UNBIAS	40	40	0
18	10	HDR UNBIAS	40	40	0
19	10	HDR UNBIAS	40	40	0
20	10	HDR UNBIAS	40	40	0
31	30	HDR BIAS	40	40	0
32	30	HDR BIAS	40	40	0
33	30	HDR BIAS	40	40	0
34	30	HDR BIAS	40	40	0
35	30	HDR BIAS	40	40	0
36	30	HDR UNBIAS	40	40	0
37	30	HDR UNBIAS	40	40	0
38	30	HDR UNBIAS	40	40	0
39	30	HDR UNBIAS	40	40	0
40	30	HDR UNBIAS	40	40	0
41	50	HDR BIAS	40	40	0
42	50	HDR BIAS	40	40	0
43	50	HDR BIAS	40	40	0
44	50	HDR BIAS	40	40	0
45	50	HDR BIAS	40	40	0
46	50	HDR UNBIAS	40	40	0
47	50	HDR UNBIAS	40	40	0
48	50	HDR UNBIAS	40	40	0
49	50	HDR UNBIAS	40	40	0
50	50	HDR UNBIAS	40	40	0
51	100	HDR BIAS	40	40	0
52	100	HDR BIAS	40	40	0
53	100	HDR BIAS	40	40	0
54	100	HDR BIAS	40	40	0
55	100	HDR BIAS	40	40	0
56	100	HDR UNBIAS	40	40	0
57	100	HDR UNBIAS	40	40	0
58	100	HDR UNBIAS	40	40	0
59	100	HDR UNBIAS	40	40	0
60	100	HDR UNBIAS	40	40	0
91	0	CORRELATION	40	40	0
92	0	CORRELATION	40	40	0
93	0	CORRELATION	40	40	0
94	0	CORRELATION	40	40	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	40	40	40	0	40	40	40	0	0	0	0	0
3	40	40	40	0	40	40	40	0	0	0	0	0
10	40	40	40	0	40	40	40	0	0	0	0	0
30	40	40	40	0	40	40	40	0	0	0	0	0
50	40	40	40	0	40	40	40	0	0	0	0	0
100	40	40	40	0	40	40	40	0	0	0	0	0

Device Test: 20.34 PF|DCL_60/SYNC/14/14/0/0/5/100kHz//@DUTY_SYNC_EXT





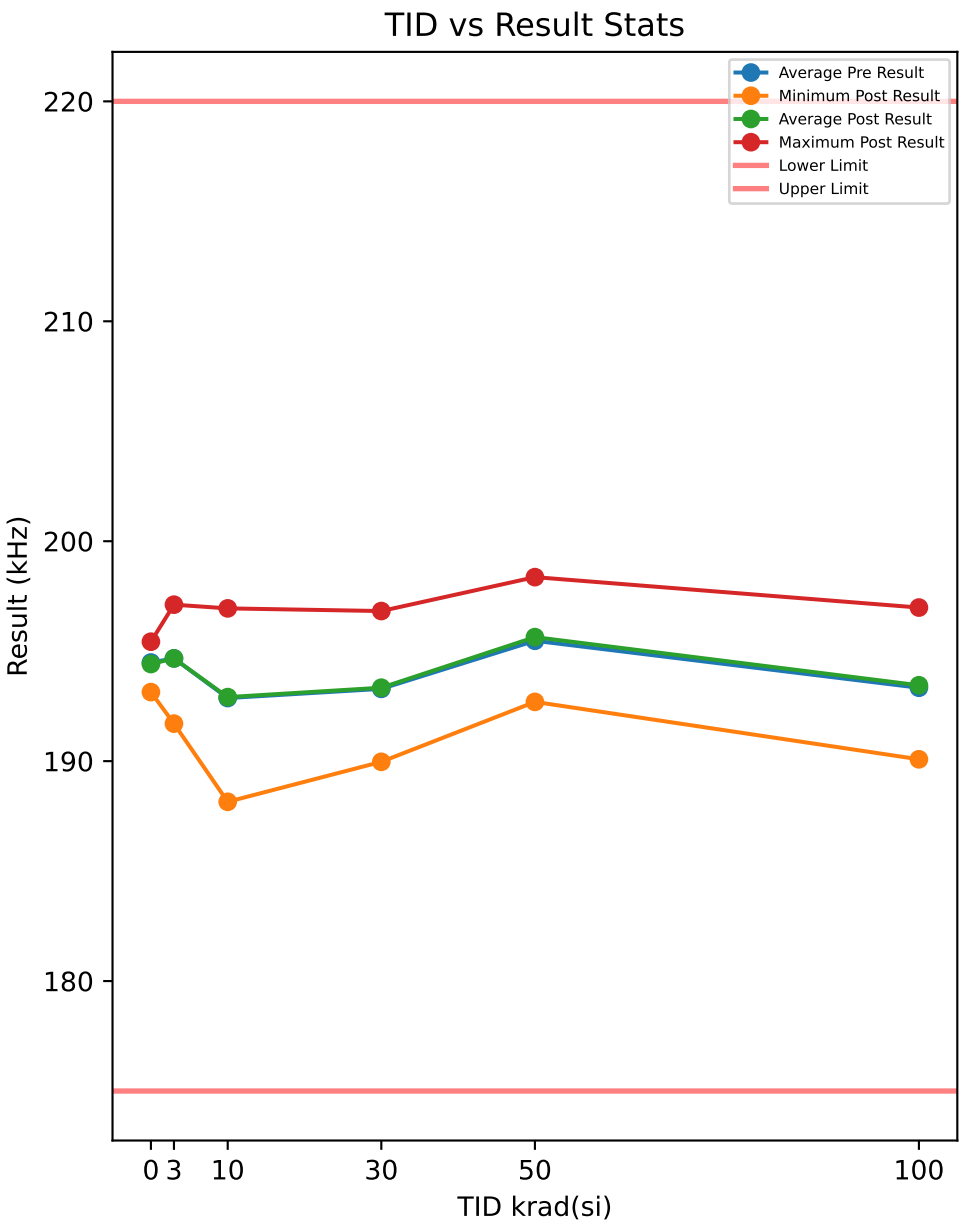
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

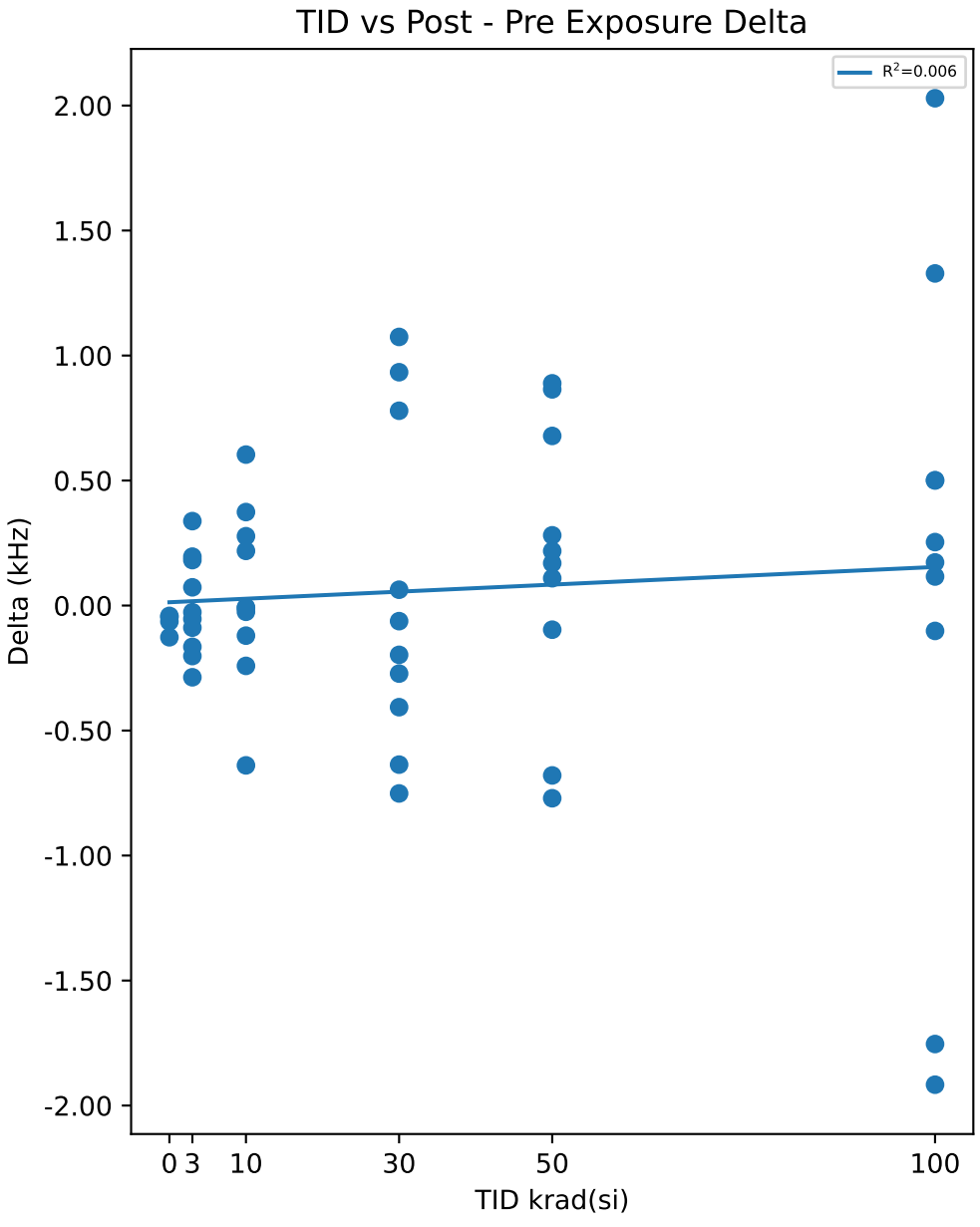
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	60	60	0
2	3	HDR BIAS	60	60	0
3	3	HDR BIAS	60	60	0
4	3	HDR BIAS	60	60	0
5	3	HDR BIAS	60	60	0
6	3	HDR UNBIAS	60	60	0
7	3	HDR UNBIAS	60	60	0
8	3	HDR UNBIAS	60	60	0
9	3	HDR UNBIAS	60	60	0
10	3	HDR UNBIAS	60	60	0
11	10	HDR BIAS	60	60	0
12	10	HDR BIAS	60	60	0
13	10	HDR BIAS	60	60	0
14	10	HDR BIAS	60	60	0
15	10	HDR BIAS	60	60	0
16	10	HDR UNBIAS	60	60	0
17	10	HDR UNBIAS	60	60	0
18	10	HDR UNBIAS	60	60	0
19	10	HDR UNBIAS	60	60	0
20	10	HDR UNBIAS	60	60	0
31	30	HDR BIAS	60	60	0
32	30	HDR BIAS	60	60	0
33	30	HDR BIAS	60	60	0
34	30	HDR BIAS	60	60	0
35	30	HDR BIAS	60	60	0
36	30	HDR UNBIAS	60	60	0
37	30	HDR UNBIAS	60	60	0
38	30	HDR UNBIAS	60	60	0
39	30	HDR UNBIAS	60	60	0
40	30	HDR UNBIAS	60	60	0
41	50	HDR BIAS	60	60	0
42	50	HDR BIAS	60	60	0
43	50	HDR BIAS	60	60	0
44	50	HDR BIAS	60	60	0
45	50	HDR BIAS	60	60	0
46	50	HDR UNBIAS	60	60	0
47	50	HDR UNBIAS	60	60	0
48	50	HDR UNBIAS	60	60	0
49	50	HDR UNBIAS	60	60	0
50	50	HDR UNBIAS	60	60	0
51	100	HDR BIAS	60	60	0
52	100	HDR BIAS	60	60	0
53	100	HDR BIAS	60	60	0
54	100	HDR BIAS	60	60	0
55	100	HDR BIAS	60	60	0
56	100	HDR UNBIAS	60	60	0
57	100	HDR UNBIAS	60	60	0
58	100	HDR UNBIAS	60	60	0
59	100	HDR UNBIAS	60	60	0
60	100	HDR UNBIAS	60	60	0
91	0	CORRELATION	60	60	0
92	0	CORRELATION	60	60	0
93	0	CORRELATION	60	60	0
94	0	CORRELATION	60	60	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	60	60	60	0	60	60	60	0	0	0	0	0
3	60	60	60	0	60	60	60	0	0	0	0	0
10	60	60	60	0	60	60	60	0	0	0	0	0
30	60	60	60	0	60	60	60	0	0	0	0	0
50	60	60	60	0	60	60	60	0	0	0	0	0
100	60	60	60	0	60	60	60	0	0	0	0	0

Device Test: 20.35 LEVEL|FREQ/RT/12/12/0/0/5/200kHz//@FSW_EXT_RT_B





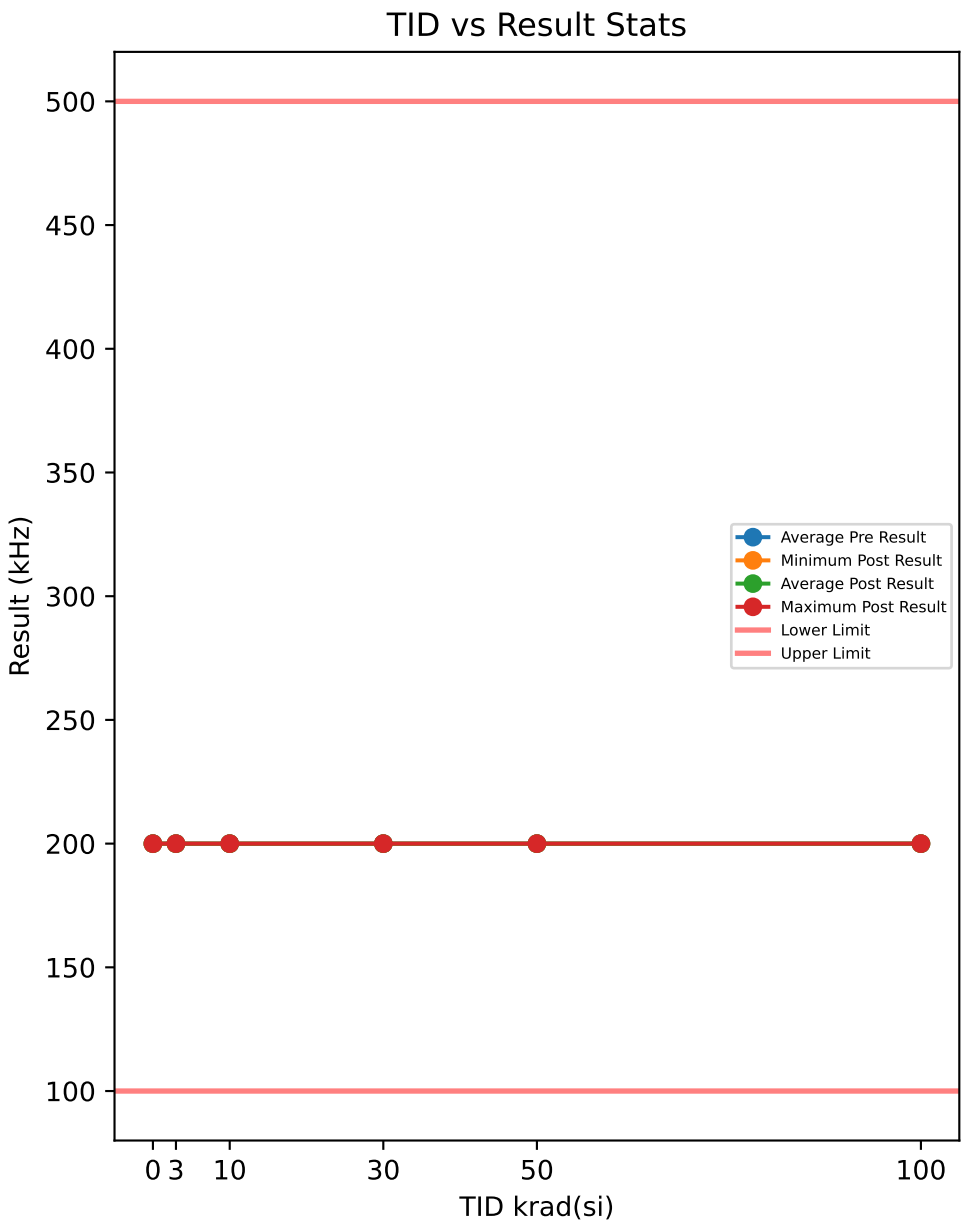
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

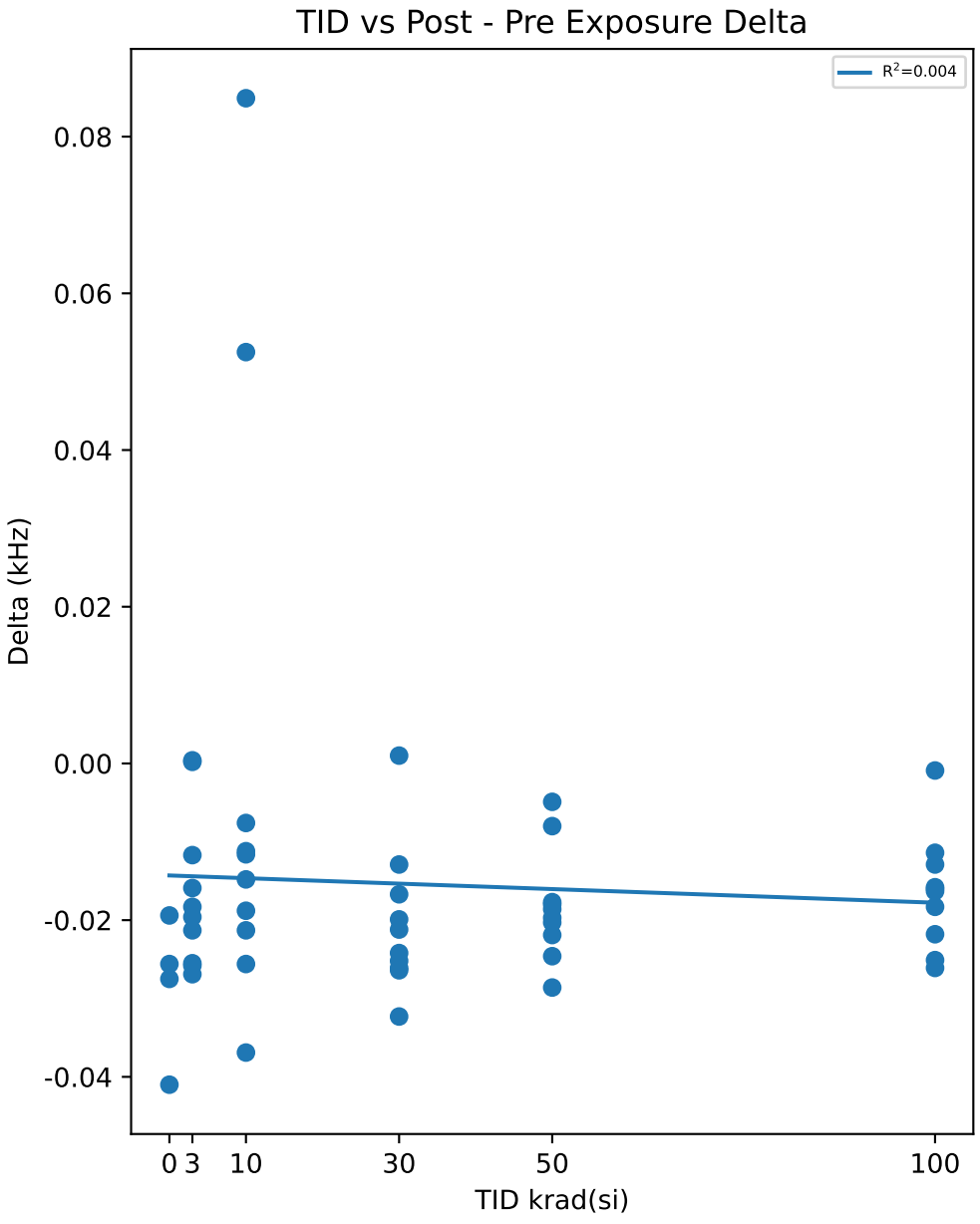
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	195.3	195.37	0.0729
2	3	HDR BIAS	194.58	194.29	-0.2869
3	3	HDR BIAS	197.14	197.12	-0.0267
4	3	HDR BIAS	194.22	194.56	0.3377
5	3	HDR BIAS	196.97	196.92	-0.0535
6	3	HDR UNBIAS	194.55	194.35	-0.202
7	3	HDR UNBIAS	191.87	191.71	-0.1651
8	3	HDR UNBIAS	194.54	194.45	-0.0884
9	3	HDR UNBIAS	194.71	194.91	0.1956
10	3	HDR UNBIAS	192.85	193.03	0.1818
11	10	HDR BIAS	193.81	194.03	0.2186
12	10	HDR BIAS	193.15	193.75	0.6038
13	10	HDR BIAS	191.54	191.52	-0.025
14	10	HDR BIAS	196.96	196.95	-0.0105
15	10	HDR BIAS	191.05	190.93	-0.1204
16	10	HDR UNBIAS	194.67	194.67	-0.007
17	10	HDR UNBIAS	187.87	188.15	0.2773
18	10	HDR UNBIAS	193.99	193.35	-0.6393
19	10	HDR UNBIAS	190.41	190.78	0.3739
20	10	HDR UNBIAS	195.23	194.99	-0.2413
31	30	HDR BIAS	191.52	192.3	0.7792
32	30	HDR BIAS	191.94	191.88	-0.0624
33	30	HDR BIAS	190.72	189.97	-0.7516
34	30	HDR BIAS	192.75	192.47	-0.2722
35	30	HDR BIAS	193.19	193	-0.1972
36	30	HDR UNBIAS	195.26	194.86	-0.4065
37	30	HDR UNBIAS	193.49	194.56	1.0745
38	30	HDR UNBIAS	194.96	195.02	0.0633
39	30	HDR UNBIAS	193.15	192.51	-0.6363
40	30	HDR UNBIAS	195.89	196.82	0.9333
41	50	HDR BIAS	198.38	197.61	-0.7708
42	50	HDR BIAS	196.33	196.54	0.2181
43	50	HDR BIAS	198.2	198.37	0.1694
44	50	HDR BIAS	192.06	192.74	0.6785
45	50	HDR BIAS	192.79	192.69	-0.0966
46	50	HDR UNBIAS	196.75	197.03	0.2809
47	50	HDR UNBIAS	193.44	194.33	0.8889
48	50	HDR UNBIAS	195.26	194.59	-0.6795
49	50	HDR UNBIAS	194.53	195.39	0.8647
50	50	HDR UNBIAS	196.99	197.1	0.1093
51	100	HDR BIAS	196.73	196.98	0.2538
52	100	HDR BIAS	193.7	193.82	0.1161
53	100	HDR BIAS	191.92	193.95	2.0292
54	100	HDR BIAS	191.85	192.02	0.1725
55	100	HDR BIAS	193.31	193.21	-0.1015
56	100	HDR UNBIAS	195.03	193.12	-1.9166
57	100	HDR UNBIAS	188.76	190.08	1.3284
58	100	HDR UNBIAS	192.47	192.97	0.5013
59	100	HDR UNBIAS	195.77	196.27	0.5003
60	100	HDR UNBIAS	193.84	192.08	-1.7539
91	0	CORRELATION	193.87	193.74	-0.1269
92	0	CORRELATION	195.39	195.34	-0.0458
93	0	CORRELATION	193.18	193.14	-0.0414
94	0	CORRELATION	195.49	195.43	-0.0638

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.18	194.48	195.49	1.1425	193.14	194.41	195.43	1.1507	-0.1269	-0.069475	-0.0414	0.039491
3	191.87	194.67	197.14	1.6048	191.71	194.67	197.12	1.6105	-0.2869	-0.00346	0.3377	0.19785
10	187.87	192.87	196.96	2.6627	188.15	192.91	196.95	2.5575	-0.6393	0.04301	0.6038	0.34845
30	190.72	193.29	195.89	1.6796	189.97	193.34	196.82	1.97	-0.7516	0.05241	1.0745	0.655
50	192.06	195.47	198.38	2.2218	192.69	195.64	198.37	2.0046	-0.7708	0.16629	0.8889	0.57291
100	188.76	193.34	196.73	2.277	190.08	193.45	196.98	2.0128	-1.9166	0.11296	2.0292	1.2076

Device Test: 20.36 LEVEL|FREQ/SYNC/12/12/0/0/5/200kHz//@FREQ_SYNC_EXT_503X





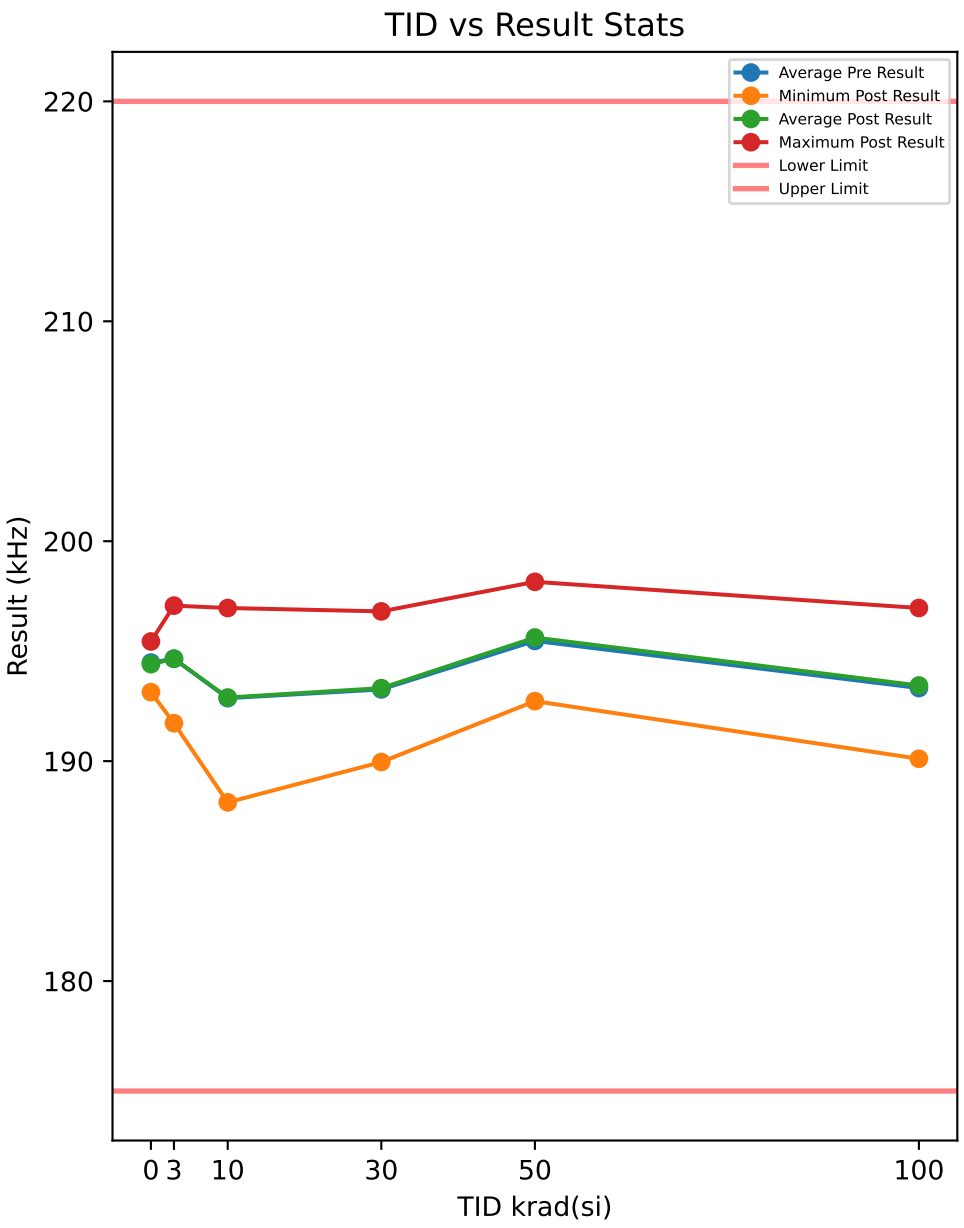
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

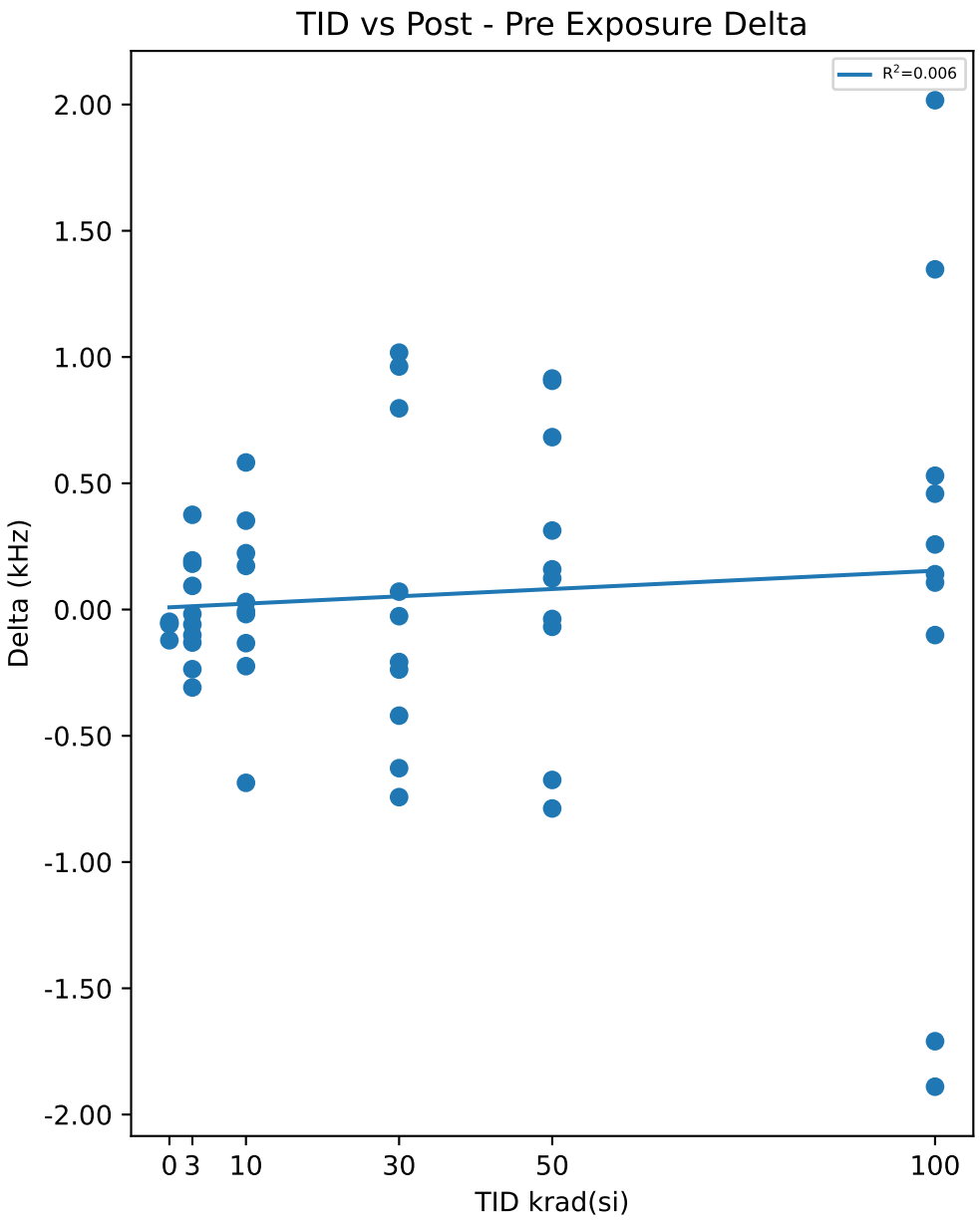
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	200	200	0.0004
2	3	HDR BIAS	200	199.97	-0.0255
3	3	HDR BIAS	199.99	199.97	-0.0269
4	3	HDR BIAS	200	199.98	-0.0258
5	3	HDR BIAS	200	200	0.0002
6	3	HDR UNBIAS	199.99	199.98	-0.0117
7	3	HDR UNBIAS	199.99	199.98	-0.0183
8	3	HDR UNBIAS	200	199.98	-0.0213
9	3	HDR UNBIAS	200	199.98	-0.0159
10	3	HDR UNBIAS	200	199.98	-0.0196
11	10	HDR BIAS	200.01	199.97	-0.0369
12	10	HDR BIAS	199.9	199.98	0.0849
13	10	HDR BIAS	199.99	199.98	-0.0116
14	10	HDR BIAS	200	199.97	-0.0256
15	10	HDR BIAS	199.99	199.97	-0.0148
16	10	HDR UNBIAS	199.93	199.98	0.0525
17	10	HDR UNBIAS	200	199.99	-0.0076
18	10	HDR UNBIAS	199.99	199.98	-0.0112
19	10	HDR UNBIAS	200	199.98	-0.0188
20	10	HDR UNBIAS	200	199.98	-0.0213
31	30	HDR BIAS	200	199.97	-0.0252
32	30	HDR BIAS	200	199.98	-0.0261
33	30	HDR BIAS	200	200	0.001
34	30	HDR BIAS	199.99	199.98	-0.0129
35	30	HDR BIAS	200	199.97	-0.0212
36	30	HDR UNBIAS	200	199.98	-0.0167
37	30	HDR UNBIAS	200	199.98	-0.0199
38	30	HDR UNBIAS	200	199.97	-0.0323
39	30	HDR UNBIAS	199.99	199.97	-0.0242
40	30	HDR UNBIAS	200	199.98	-0.0264
41	50	HDR BIAS	200	199.98	-0.018
42	50	HDR BIAS	200	199.97	-0.0286
43	50	HDR BIAS	199.99	199.97	-0.0203
44	50	HDR BIAS	200	199.98	-0.0219
45	50	HDR BIAS	200	199.99	-0.0049
46	50	HDR UNBIAS	199.99	199.97	-0.0186
47	50	HDR UNBIAS	200	199.98	-0.0197
48	50	HDR UNBIAS	200	199.98	-0.0177
49	50	HDR UNBIAS	200	199.99	-0.008
50	50	HDR UNBIAS	200	199.97	-0.0246
51	100	HDR BIAS	200	199.98	-0.0218
52	100	HDR BIAS	200	199.98	-0.016
53	100	HDR BIAS	200	199.99	-0.0009
54	100	HDR BIAS	200	199.98	-0.0183
55	100	HDR BIAS	199.99	199.98	-0.0158
56	100	HDR UNBIAS	200	199.98	-0.0163
57	100	HDR UNBIAS	200	199.99	-0.0114
58	100	HDR UNBIAS	199.99	199.98	-0.0129
59	100	HDR UNBIAS	200	199.97	-0.0251
60	100	HDR UNBIAS	200	199.98	-0.0261
91	0	CORRELATION	200.01	199.99	-0.0194
92	0	CORRELATION	200	199.96	-0.041
93	0	CORRELATION	200	199.97	-0.0275
94	0	CORRELATION	200	199.98	-0.0256

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200	200	200.01	0.0040186	199.96	199.97	199.99	0.012965	-0.041	-0.028375	-0.0194	0.0090996
3	199.99	200	200	0.0034756	199.97	199.98	200	0.010173	-0.0269	-0.01644	0.0004	0.0099967
10	199.9	199.98	200.01	0.036286	199.97	199.98	199.99	0.0055292	-0.0369	-0.00104	0.0849	0.038463
30	199.99	200	200	0.0037275	199.97	199.98	200	0.0084932	-0.0323	-0.02039	0.001	0.0092878
50	199.99	200	200	0.0032188	199.97	199.98	199.99	0.0081788	-0.0286	-0.01823	-0.0049	0.0070777
100	199.99	200	200	0.0030367	199.97	199.98	199.99	0.0068678	-0.0261	-0.01646	-0.0009	0.0073071

Device Test: 20.37 LEVEL|FREQ/RT/14/14/0/0/5/200kHz//@FSW_EXT_RT_B





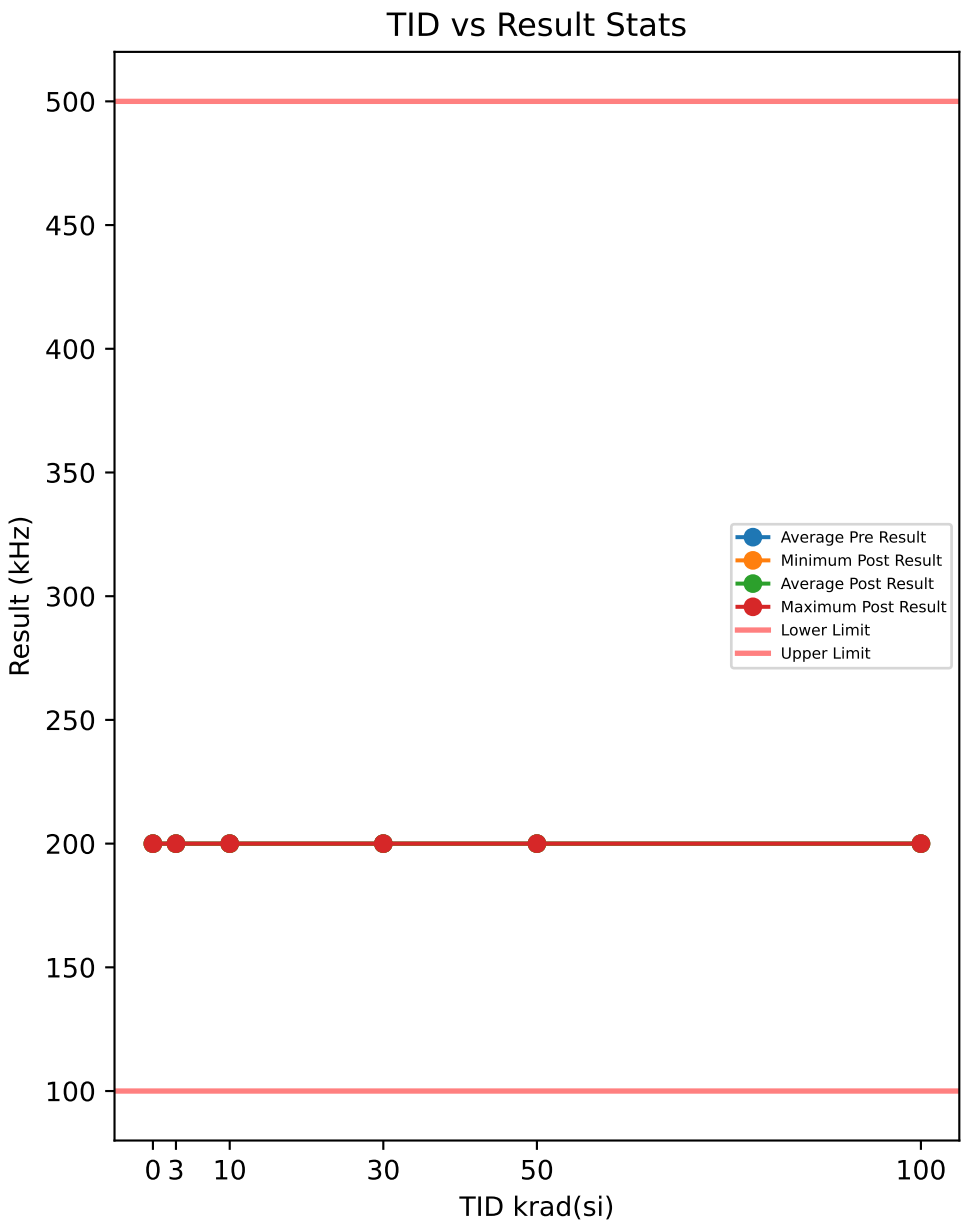
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

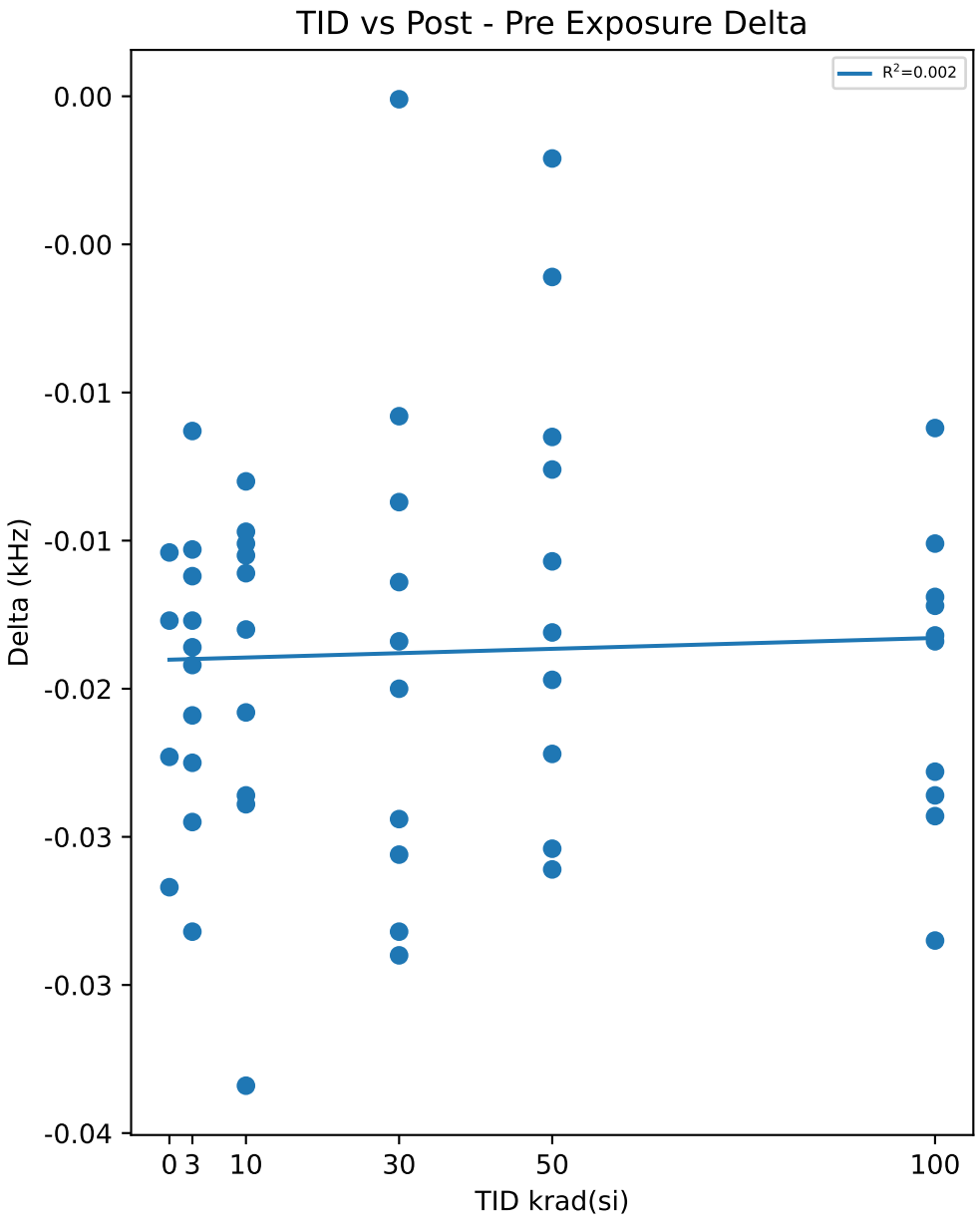
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	195.27	195.36	0.0937
2	3	HDR BIAS	194.57	194.26	-0.3087
3	3	HDR BIAS	197.13	197.07	-0.059
4	3	HDR BIAS	194.18	194.55	0.3752
5	3	HDR BIAS	196.95	196.94	-0.0181
6	3	HDR UNBIAS	194.57	194.33	-0.2362
7	3	HDR UNBIAS	191.86	191.73	-0.1309
8	3	HDR UNBIAS	194.54	194.44	-0.1014
9	3	HDR UNBIAS	194.68	194.88	0.1946
10	3	HDR UNBIAS	192.83	193.01	0.1815
11	10	HDR BIAS	193.82	193.99	0.1726
12	10	HDR BIAS	193.14	193.72	0.5824
13	10	HDR BIAS	191.53	191.52	-0.0182
14	10	HDR BIAS	196.93	196.96	0.0298
15	10	HDR BIAS	191.05	190.91	-0.1331
16	10	HDR UNBIAS	194.65	194.64	-0.0071
17	10	HDR UNBIAS	187.9	188.13	0.2232
18	10	HDR UNBIAS	194.01	193.32	-0.6863
19	10	HDR UNBIAS	190.41	190.77	0.3519
20	10	HDR UNBIAS	195.19	194.96	-0.2242
31	30	HDR BIAS	191.5	192.3	0.7969
32	30	HDR BIAS	191.92	191.89	-0.0263
33	30	HDR BIAS	190.7	189.96	-0.7429
34	30	HDR BIAS	192.71	192.47	-0.2378
35	30	HDR BIAS	193.17	192.96	-0.2078
36	30	HDR UNBIAS	195.25	194.83	-0.4202
37	30	HDR UNBIAS	193.51	194.53	1.0175
38	30	HDR UNBIAS	194.92	194.99	0.0709
39	30	HDR UNBIAS	193.09	192.46	-0.6283
40	30	HDR UNBIAS	195.85	196.81	0.9625
41	50	HDR BIAS	198.37	197.58	-0.7879
42	50	HDR BIAS	196.34	196.5	0.1592
43	50	HDR BIAS	198.19	198.15	-0.0373
44	50	HDR BIAS	192.05	192.73	0.6827
45	50	HDR BIAS	192.8	192.73	-0.0685
46	50	HDR UNBIAS	196.74	197.05	0.3128
47	50	HDR UNBIAS	193.43	194.34	0.9149
48	50	HDR UNBIAS	195.28	194.61	-0.6749
49	50	HDR UNBIAS	194.51	195.41	0.9059
50	50	HDR UNBIAS	196.97	197.1	0.1235
51	100	HDR BIAS	196.71	196.96	0.2577
52	100	HDR BIAS	193.67	193.81	0.14
53	100	HDR BIAS	191.89	193.91	2.017
54	100	HDR BIAS	191.85	191.96	0.1068
55	100	HDR BIAS	193.29	193.19	-0.1012
56	100	HDR UNBIAS	195.01	193.12	-1.8897
57	100	HDR UNBIAS	188.76	190.11	1.3473
58	100	HDR UNBIAS	192.49	192.95	0.4588
59	100	HDR UNBIAS	195.75	196.28	0.53
60	100	HDR UNBIAS	193.83	192.12	-1.7096
91	0	CORRELATION	193.86	193.74	-0.1218
92	0	CORRELATION	195.38	195.32	-0.0581
93	0	CORRELATION	193.19	193.14	-0.0483
94	0	CORRELATION	195.5	195.44	-0.0546

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.19	194.48	195.5	1.1405	193.14	194.41	195.44	1.1499	-0.1218	-0.0707	-0.0483	0.034307
3	191.86	194.66	197.13	1.6062	191.73	194.66	197.07	1.6055	-0.3087	-0.00093	0.3752	0.21152
10	187.9	192.86	196.93	2.6479	188.13	192.89	196.96	2.561	-0.6863	0.0291	0.5824	0.34551
30	190.7	193.26	195.85	1.6735	189.96	193.32	196.81	1.9617	-0.7429	0.05845	1.0175	0.64904
50	192.05	195.47	198.37	2.2217	192.73	195.62	198.15	1.9628	-0.7879	0.15304	0.9149	0.58787
100	188.76	193.32	196.71	2.2679	190.11	193.44	196.96	2.0092	-1.8897	0.11571	2.017	1.1945

Device Test: 20.38 LEVEL|FREQ/SYNC/14/14/0/0/5/200kHz//@FREQ_SYNC_EXT_503X





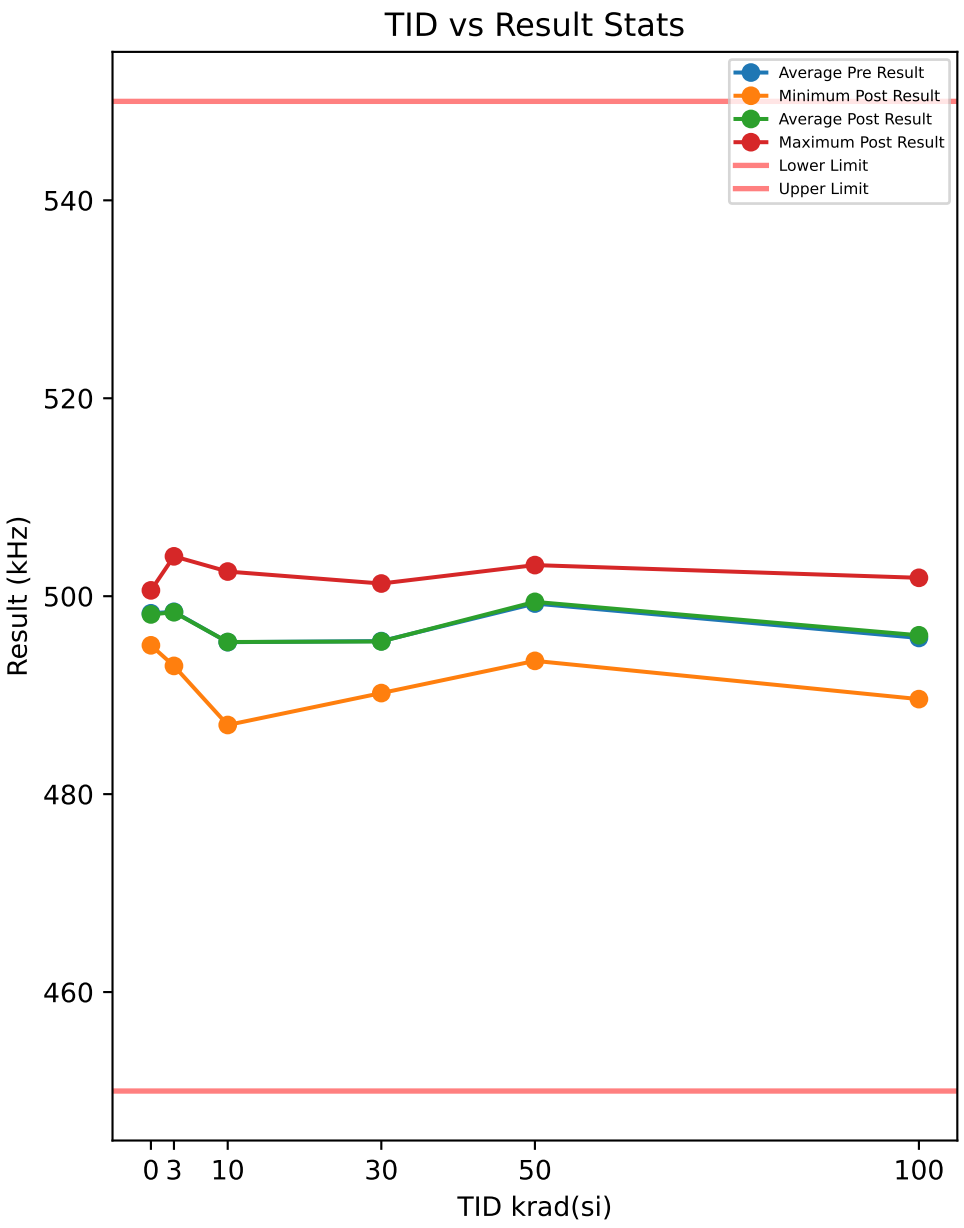
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

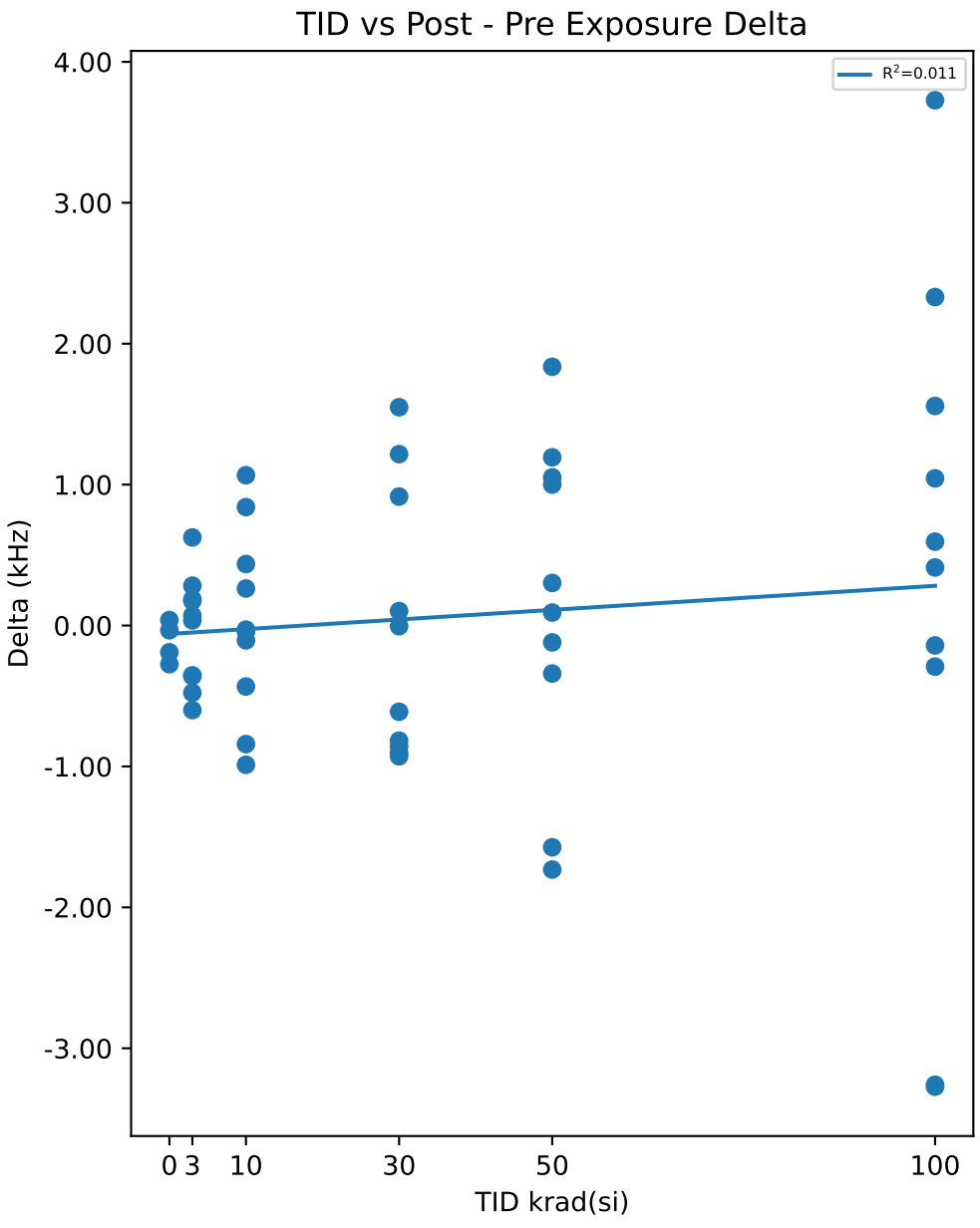
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	200	199.97	-0.0282
2	3	HDR BIAS	200	199.98	-0.0192
3	3	HDR BIAS	200	199.97	-0.0245
4	3	HDR BIAS	200	199.98	-0.0153
5	3	HDR BIAS	200	199.99	-0.0162
6	3	HDR UNBIAS	200	199.98	-0.0225
7	3	HDR UNBIAS	200	199.98	-0.0209
8	3	HDR UNBIAS	200	199.98	-0.0177
9	3	HDR UNBIAS	199.99	199.98	-0.0113
10	3	HDR UNBIAS	200	199.98	-0.0186
11	10	HDR BIAS	200	199.97	-0.0334
12	10	HDR BIAS	199.99	199.98	-0.0147
13	10	HDR BIAS	200	199.98	-0.0155
14	10	HDR BIAS	200	199.98	-0.0208
15	10	HDR BIAS	199.99	199.97	-0.0236
16	10	HDR UNBIAS	199.99	199.98	-0.018
17	10	HDR UNBIAS	200	199.99	-0.013
18	10	HDR UNBIAS	200	199.98	-0.0151
19	10	HDR UNBIAS	199.99	199.97	-0.0239
20	10	HDR UNBIAS	200	199.98	-0.0161
31	30	HDR BIAS	200	199.97	-0.0256
32	30	HDR BIAS	200	199.98	-0.029
33	30	HDR BIAS	200	200	-0.0001
34	30	HDR BIAS	200	199.98	-0.02
35	30	HDR BIAS	200	199.98	-0.0282
36	30	HDR UNBIAS	199.99	199.98	-0.0108
37	30	HDR UNBIAS	200	199.98	-0.0137
38	30	HDR UNBIAS	200	199.98	-0.0184
39	30	HDR UNBIAS	199.99	199.97	-0.0244
40	30	HDR UNBIAS	200	199.98	-0.0164
41	50	HDR BIAS	200	199.98	-0.0197
42	50	HDR BIAS	199.99	199.98	-0.0126
43	50	HDR BIAS	199.99	199.97	-0.0181
44	50	HDR BIAS	200	199.98	-0.0222
45	50	HDR BIAS	200	199.99	-0.0061
46	50	HDR UNBIAS	199.99	199.98	-0.0157
47	50	HDR UNBIAS	200	199.97	-0.0254
48	50	HDR UNBIAS	199.99	199.98	-0.0115
49	50	HDR UNBIAS	200	200	-0.0021
50	50	HDR UNBIAS	200.01	199.98	-0.0261
51	100	HDR BIAS	200	199.97	-0.0285
52	100	HDR BIAS	200	199.98	-0.0172
53	100	HDR BIAS	200.01	199.99	-0.0151
54	100	HDR BIAS	199.99	199.97	-0.0182
55	100	HDR BIAS	200	199.98	-0.0243
56	100	HDR UNBIAS	200	199.98	-0.0184
57	100	HDR UNBIAS	200	199.98	-0.0112
58	100	HDR UNBIAS	199.99	199.97	-0.0228
59	100	HDR UNBIAS	200	199.97	-0.0236
60	100	HDR UNBIAS	200	199.98	-0.0169
91	0	CORRELATION	200	199.99	-0.0154
92	0	CORRELATION	200	199.98	-0.0177
93	0	CORRELATION	200	199.97	-0.0267
94	0	CORRELATION	200	199.98	-0.0223

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200	200	200	0.0027158	199.97	199.98	199.99	0.0067838	-0.0267	-0.020525	-0.0154	0.0050176
3	199.99	200	200	0.0029931	199.97	199.98	199.99	0.0039649	-0.0282	-0.01944	-0.0113	0.004848
10	199.99	200	200	0.0034795	199.97	199.98	199.99	0.0072666	-0.0334	-0.01941	-0.013	0.0061954
30	199.99	200	200	0.0043295	199.97	199.98	200	0.0078276	-0.029	-0.01866	-0.0001	0.0089248
50	199.99	200	200.01	0.0050045	199.97	199.98	200	0.0071191	-0.0261	-0.01595	-0.0021	0.0079583
100	199.99	200	200.01	0.0036	199.97	199.98	199.99	0.0063288	-0.0285	-0.01962	-0.0112	0.0051077

Device Test: 20.39 LEVEL|FREQ/RT/12/12/0/0/5/500kHz//@FSW_EXT_RT_C





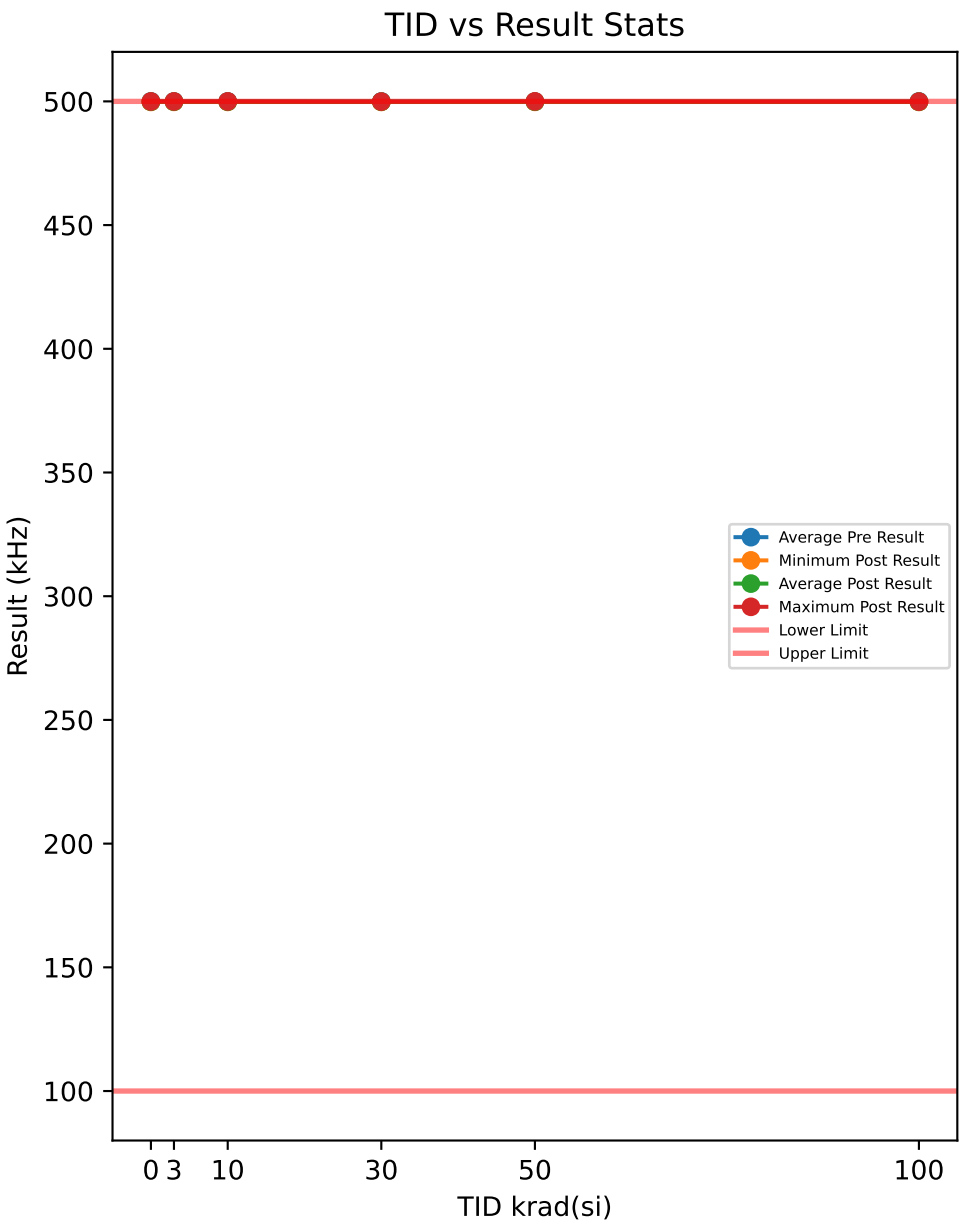
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

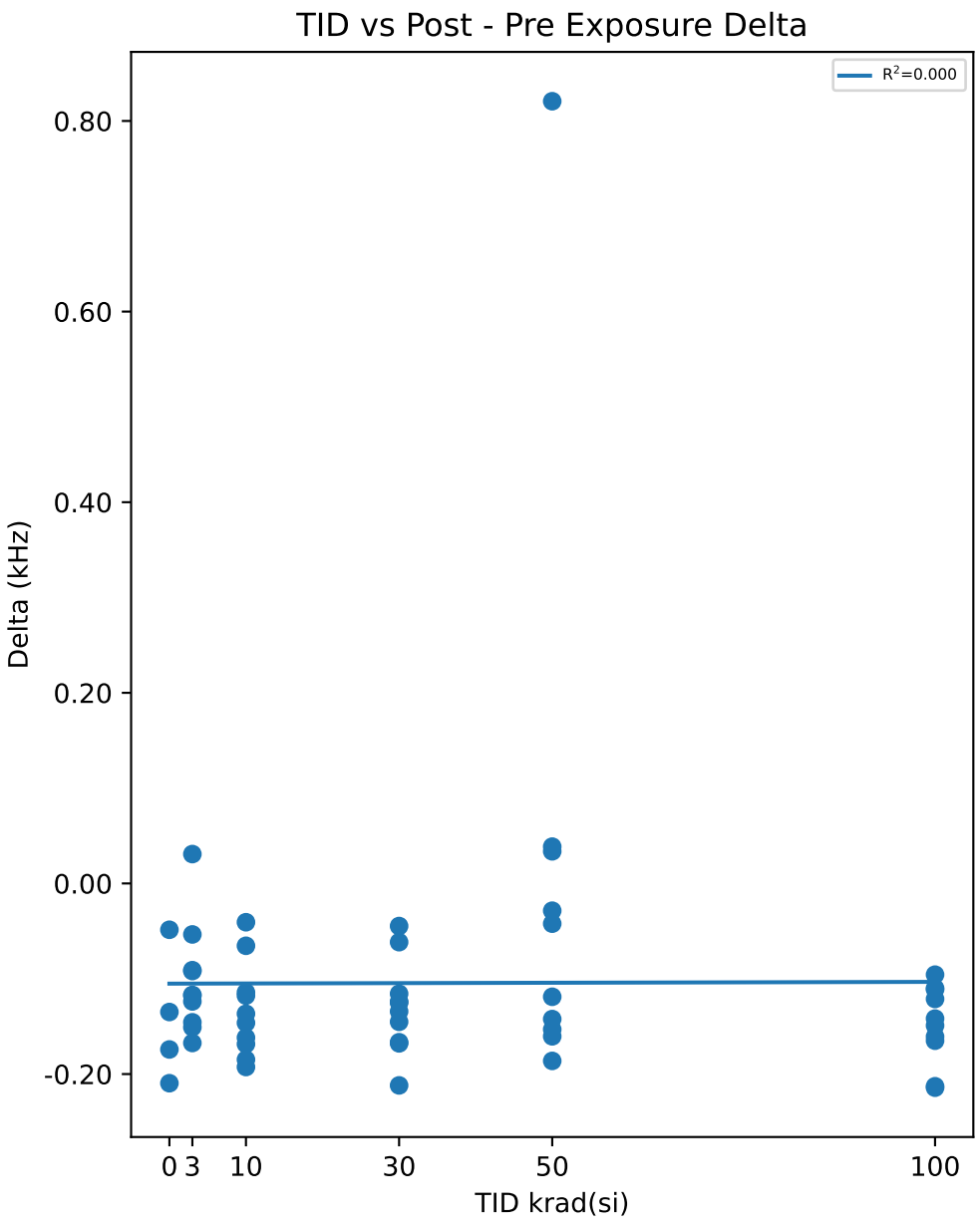
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	498.18	498.36	0.1865
2	3	HDR BIAS	498.53	498.05	-0.4767
3	3	HDR BIAS	503.74	504.03	0.2828
4	3	HDR BIAS	496.83	497	0.1745
5	3	HDR BIAS	502.01	502.05	0.0361
6	3	HDR UNBIAS	498.69	498.33	-0.359
7	3	HDR UNBIAS	493.31	492.96	-0.3533
8	3	HDR UNBIAS	498.57	497.97	-0.5998
9	3	HDR UNBIAS	498.45	499.08	0.6252
10	3	HDR UNBIAS	495.91	495.98	0.0707
11	10	HDR BIAS	497.61	497.87	0.2629
12	10	HDR BIAS	495.66	496.73	1.0666
13	10	HDR BIAS	494.19	494.08	-0.1052
14	10	HDR BIAS	502.54	502.49	-0.0439
15	10	HDR BIAS	491.01	490.98	-0.029
16	10	HDR UNBIAS	497.89	497.46	-0.4326
17	10	HDR UNBIAS	486.15	486.99	0.8405
18	10	HDR UNBIAS	497.31	496.32	-0.9883
19	10	HDR UNBIAS	491.76	492.2	0.4365
20	10	HDR UNBIAS	499.44	498.6	-0.8413
31	30	HDR BIAS	491.86	493.08	1.2163
32	30	HDR BIAS	493.86	493.86	-0.0046
33	30	HDR BIAS	491.07	490.21	-0.8582
34	30	HDR BIAS	494.73	493.83	-0.9019
35	30	HDR BIAS	494.37	493.75	-0.6119
36	30	HDR UNBIAS	500.03	499.22	-0.817
37	30	HDR UNBIAS	494.2	495.75	1.5493
38	30	HDR UNBIAS	499.7	499.81	0.1029
39	30	HDR UNBIAS	494.42	493.49	-0.9283
40	30	HDR UNBIAS	500.37	501.28	0.9151
41	50	HDR BIAS	503.85	502.12	-1.7314
42	50	HDR BIAS	500.28	501.33	1.0517
43	50	HDR BIAS	503.48	503.14	-0.3405
44	50	HDR BIAS	492.46	493.46	1.0003
45	50	HDR BIAS	494.86	495.17	0.3022
46	50	HDR UNBIAS	502.87	502.96	0.0925
47	50	HDR UNBIAS	494.82	496.66	1.8362
48	50	HDR UNBIAS	499.68	498.1	-1.5737
49	50	HDR UNBIAS	498.24	499.44	1.1936
50	50	HDR UNBIAS	502.02	501.9	-0.1195
51	100	HDR BIAS	500.81	501.86	1.0444
52	100	HDR BIAS	495.38	495.08	-0.2915
53	100	HDR BIAS	493.6	497.33	3.7277
54	100	HDR BIAS	494.26	494.68	0.412
55	100	HDR BIAS	495.98	495.84	-0.1411
56	100	HDR UNBIAS	497.53	494.26	-3.2725
57	100	HDR UNBIAS	487.27	489.6	2.331
58	100	HDR UNBIAS	495.82	496.42	0.5954
59	100	HDR UNBIAS	499.61	501.17	1.5582
60	100	HDR UNBIAS	497.54	494.28	-3.2587
91	0	CORRELATION	495.07	495.04	-0.0336
92	0	CORRELATION	499.87	499.91	0.0388
93	0	CORRELATION	497.29	497.1	-0.1897
94	0	CORRELATION	500.86	500.59	-0.2745

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	495.07	498.27	500.86	2.6138	495.04	498.16	500.59	2.5721	-0.2745	-0.11475	0.0388	0.14295
3	493.31	498.42	503.74	2.9129	492.96	498.38	504.03	3.0402	-0.5998	-0.0413	0.6252	0.38959
10	486.15	495.36	502.54	4.7338	486.99	495.37	502.49	4.4199	-0.9883	0.01662	1.0666	0.66554
30	491.07	495.46	500.37	3.3697	490.21	495.43	501.28	3.5311	-0.9283	-0.03383	1.5493	0.95277
50	492.46	499.26	503.85	4.0412	493.46	499.43	503.14	3.4384	-1.7314	0.17114	1.8362	1.1697
100	487.27	495.78	500.81	3.7389	489.6	496.05	501.86	3.5354	-3.2725	0.27049	3.7277	2.2129

Device Test: 20.40 LEVEL|FREQ/SYNC/12/12/0/0/5/500kHz//@FREQ_SYNC_EXT_503X





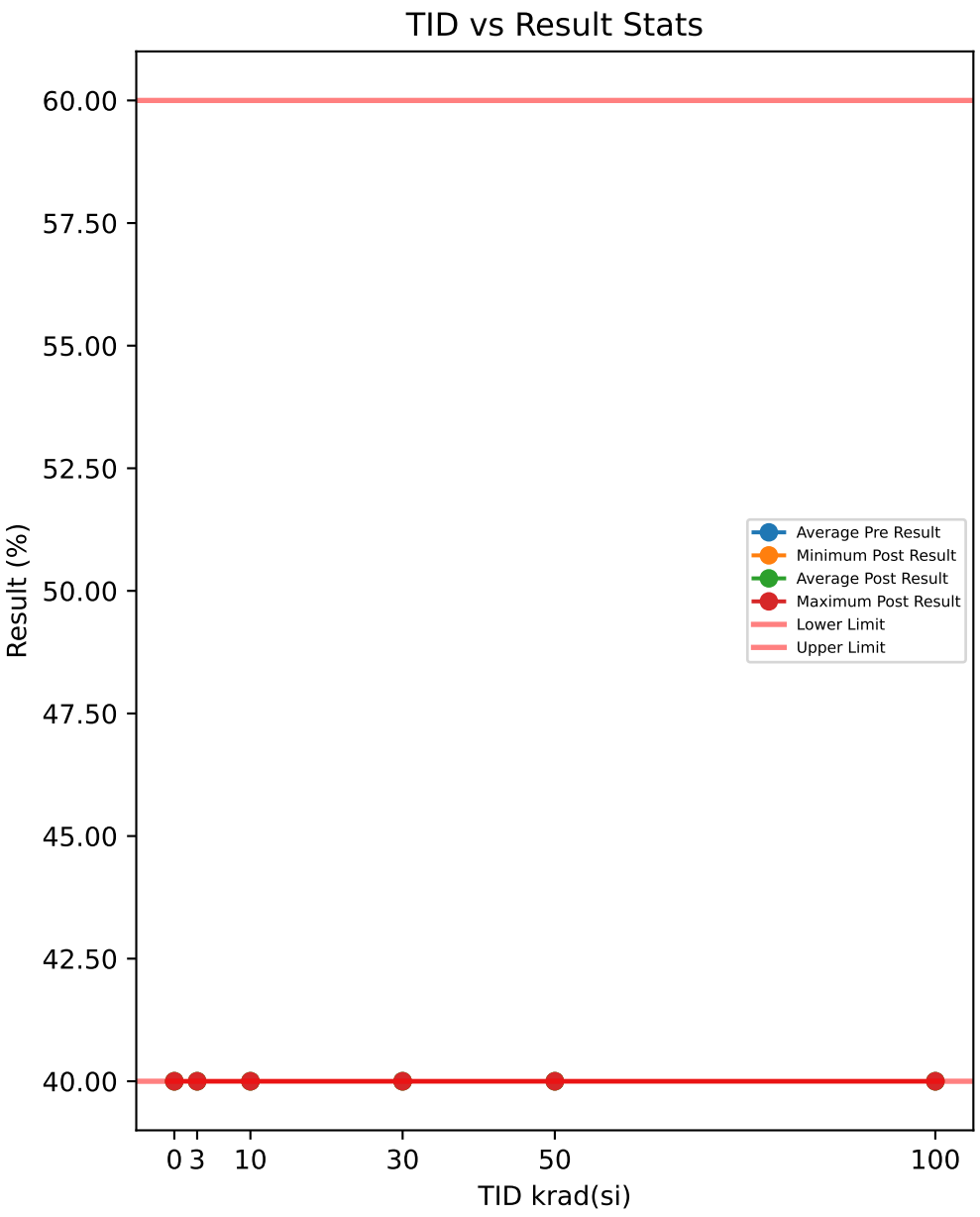
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

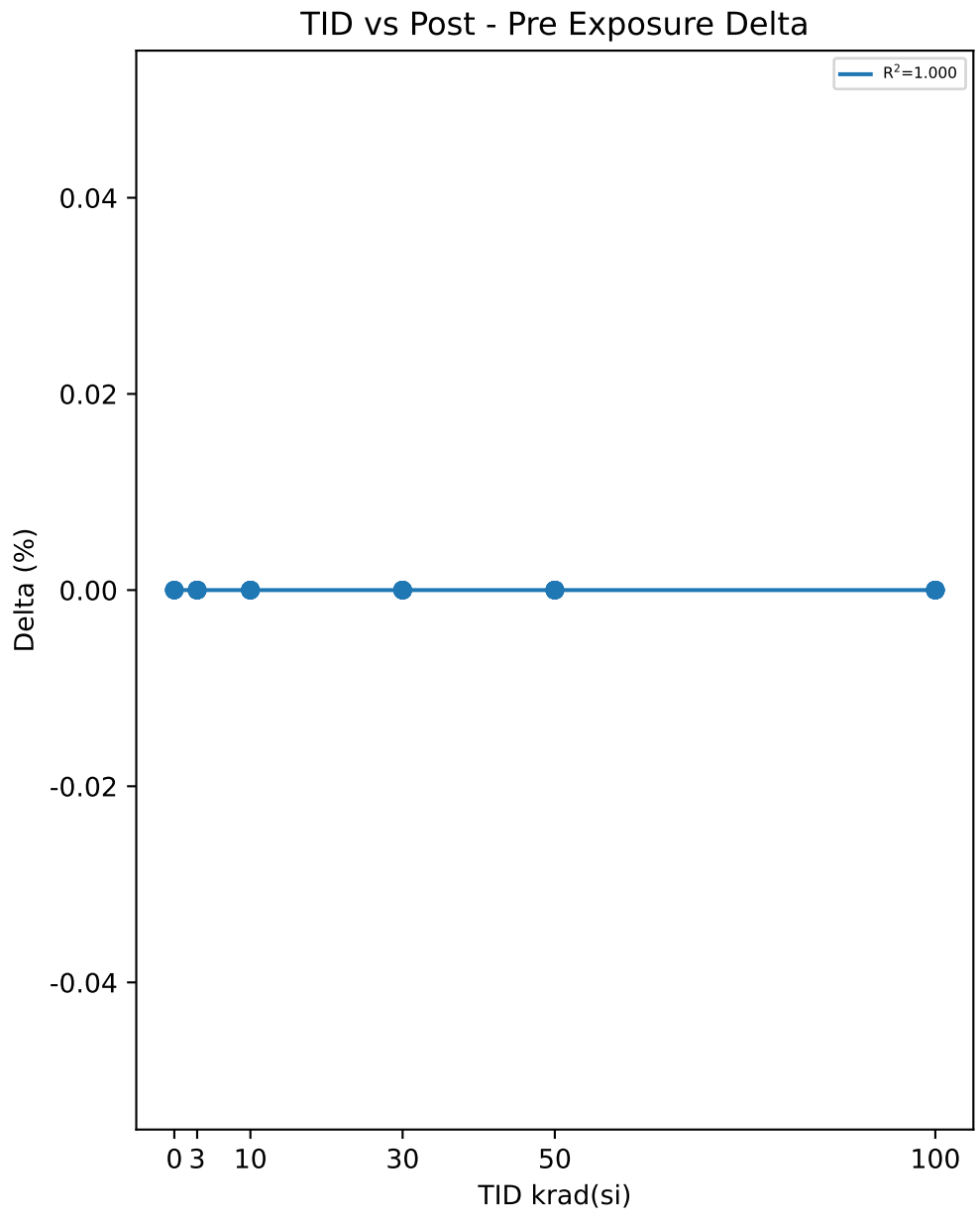
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	499.95	499.98	0.0308
2	3	HDR BIAS	499.97	499.82	-0.1509
3	3	HDR BIAS	499.95	499.83	-0.117
4	3	HDR BIAS	499.97	499.84	-0.1238
5	3	HDR BIAS	500.02	499.9	-0.1174
6	3	HDR UNBIAS	499.98	499.84	-0.1457
7	3	HDR UNBIAS	500.01	499.85	-0.1674
8	3	HDR UNBIAS	499.98	499.89	-0.0919
9	3	HDR UNBIAS	499.95	499.9	-0.0535
10	3	HDR UNBIAS	499.97	499.87	-0.091
11	10	HDR BIAS	500.02	499.84	-0.1848
12	10	HDR BIAS	499.98	499.84	-0.1463
13	10	HDR BIAS	500.02	499.98	-0.0407
14	10	HDR BIAS	499.99	499.82	-0.1685
15	10	HDR BIAS	500	499.8	-0.1926
16	10	HDR UNBIAS	499.96	499.84	-0.1177
17	10	HDR UNBIAS	499.98	499.91	-0.0654
18	10	HDR UNBIAS	499.95	499.84	-0.1143
19	10	HDR UNBIAS	499.99	499.85	-0.1367
20	10	HDR UNBIAS	500	499.84	-0.1618
31	30	HDR BIAS	499.95	499.83	-0.1157
32	30	HDR BIAS	500	499.88	-0.124
33	30	HDR BIAS	499.96	499.92	-0.0447
34	30	HDR BIAS	499.97	499.82	-0.1452
35	30	HDR BIAS	500.01	499.8	-0.2119
36	30	HDR UNBIAS	499.94	499.88	-0.0616
37	30	HDR UNBIAS	500	499.83	-0.1666
38	30	HDR UNBIAS	499.96	499.83	-0.1343
39	30	HDR UNBIAS	500.01	499.84	-0.1678
40	30	HDR UNBIAS	499.97	499.85	-0.1251
41	50	HDR BIAS	500.02	499.99	-0.0286
42	50	HDR BIAS	499.96	499.82	-0.1423
43	50	HDR BIAS	500.03	499.85	-0.1862
44	50	HDR BIAS	500	499.88	-0.1189
45	50	HDR BIAS	499.95	499.99	0.0337
46	50	HDR UNBIAS	500	499.84	-0.1531
47	50	HDR UNBIAS	499.97	499.81	-0.1604
48	50	HDR UNBIAS	499.93	499.89	-0.0422
49	50	HDR UNBIAS	499.97	500.01	0.0386
50	50	HDR UNBIAS	499.02	499.84	0.8207
51	100	HDR BIAS	499.97	499.81	-0.1607
52	100	HDR BIAS	500.01	499.85	-0.165
53	100	HDR BIAS	500.02	499.9	-0.1212
54	100	HDR BIAS	499.97	499.83	-0.1418
55	100	HDR BIAS	500.01	499.8	-0.2128
56	100	HDR UNBIAS	499.99	499.88	-0.11
57	100	HDR UNBIAS	499.99	499.88	-0.1112
58	100	HDR UNBIAS	499.96	499.86	-0.0957
59	100	HDR UNBIAS	500.02	499.8	-0.2143
60	100	HDR UNBIAS	499.99	499.84	-0.1491
91	0	CORRELATION	500.02	499.97	-0.0486
92	0	CORRELATION	500	499.86	-0.1349
93	0	CORRELATION	500.01	499.8	-0.2096
94	0	CORRELATION	500.02	499.84	-0.1742

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500	500.01	500.02	0.010347	499.8	499.87	499.97	0.071745	-0.2096	-0.14183	-0.0486	0.069235
3	499.95	499.97	500.02	0.023891	499.82	499.87	499.98	0.047631	-0.1674	-0.10278	0.0308	0.057465
10	499.95	499.99	500.02	0.022101	499.8	499.86	499.98	0.051461	-0.1926	-0.13288	-0.0407	0.049653
30	499.94	499.98	500.01	0.025822	499.8	499.85	499.92	0.033866	-0.2119	-0.12969	-0.0447	0.049378
50	499.02	499.89	500.03	0.30587	499.81	499.89	500.01	0.075331	-0.1862	0.00613	0.8207	0.29751
100	499.96	499.99	500.02	0.022396	499.8	499.85	499.9	0.033658	-0.2143	-0.14818	-0.0957	0.04128

Device Test: 20.41 PF|DCL_40/SYNC/12/12/0/0/5/500kHz//@DUTY_SYNC_EXT





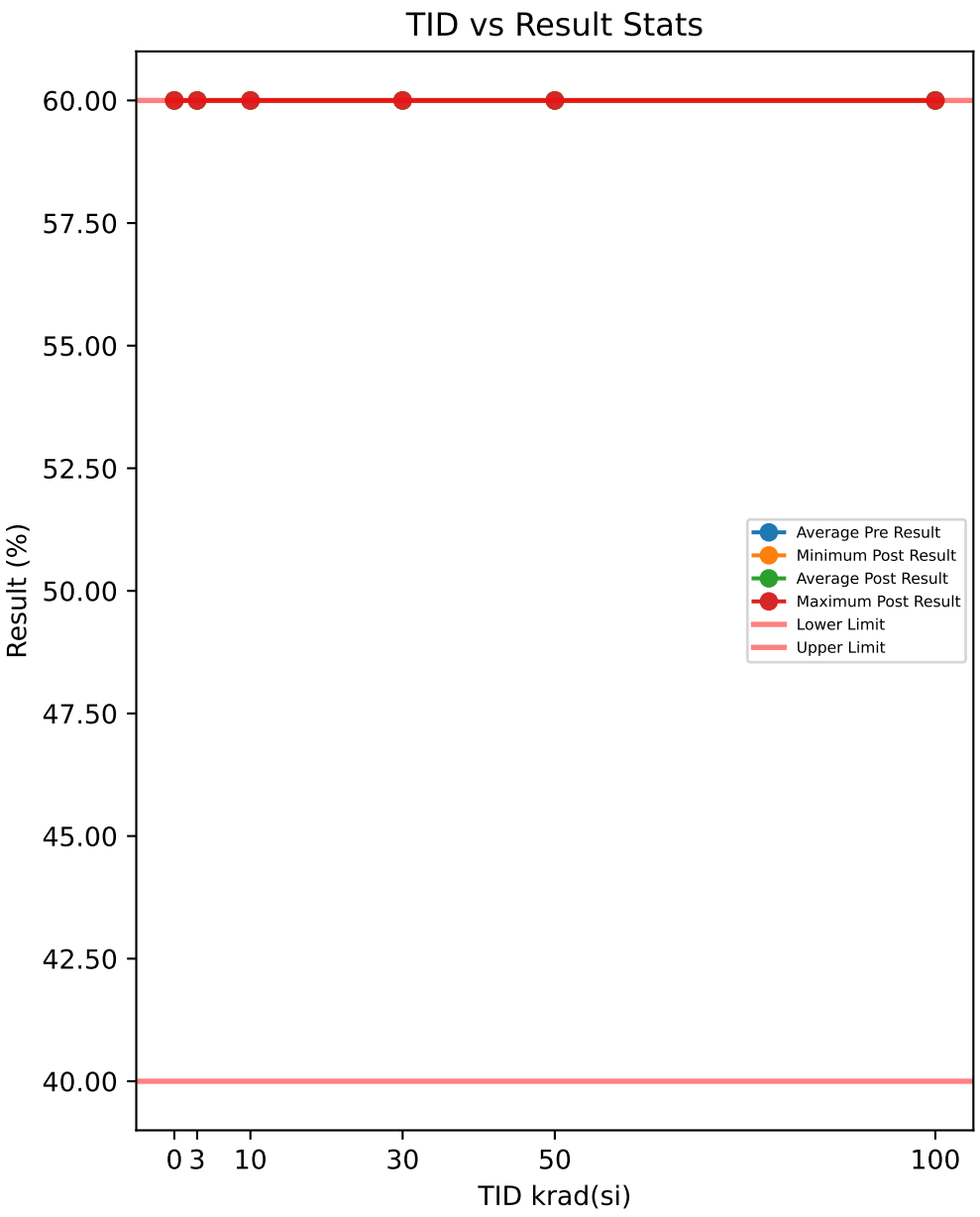
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

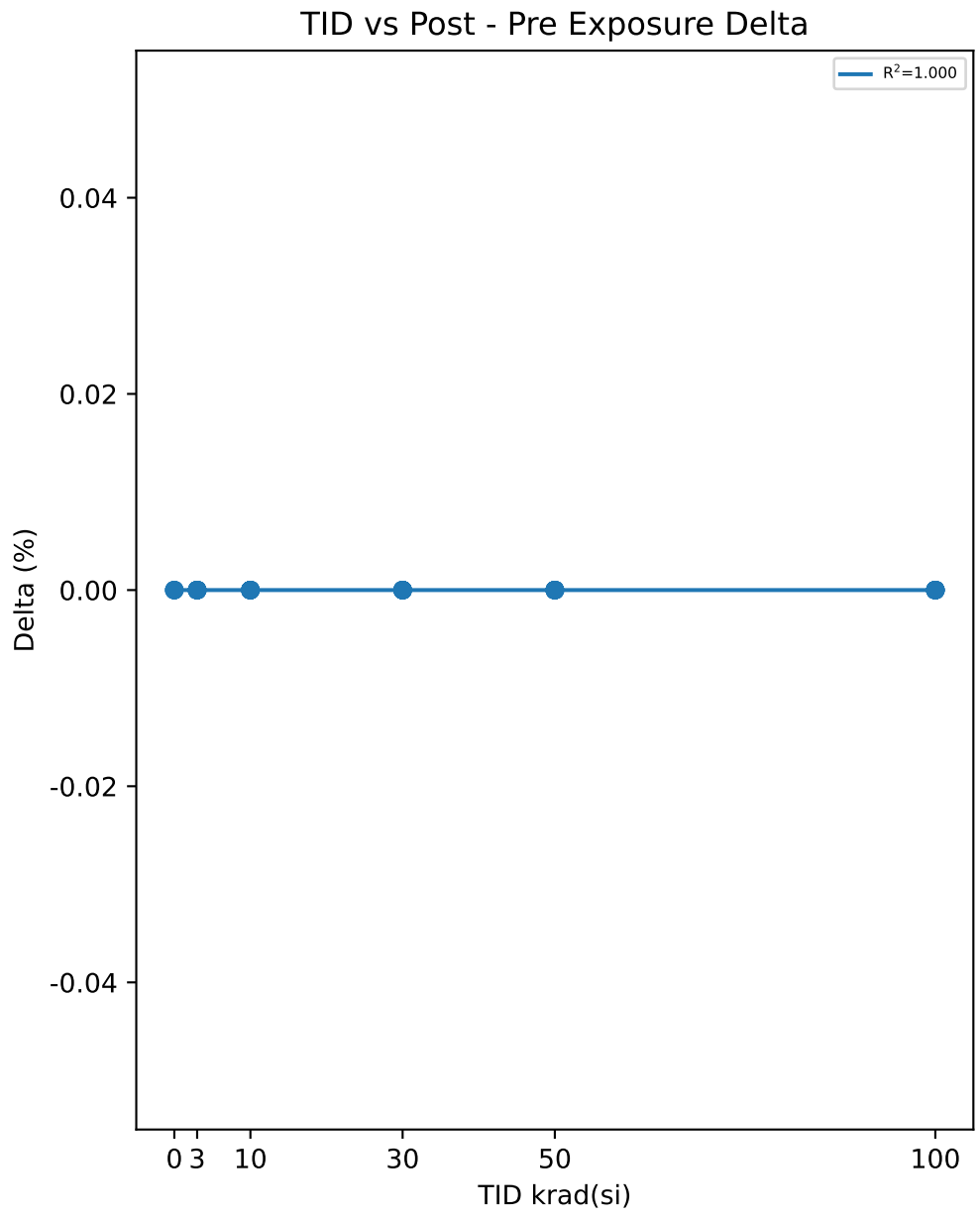
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	40	40	0
2	3	HDR BIAS	40	40	0
3	3	HDR BIAS	40	40	0
4	3	HDR BIAS	40	40	0
5	3	HDR BIAS	40	40	0
6	3	HDR UNBIAS	40	40	0
7	3	HDR UNBIAS	40	40	0
8	3	HDR UNBIAS	40	40	0
9	3	HDR UNBIAS	40	40	0
10	3	HDR UNBIAS	40	40	0
11	10	HDR BIAS	40	40	0
12	10	HDR BIAS	40	40	0
13	10	HDR BIAS	40	40	0
14	10	HDR BIAS	40	40	0
15	10	HDR BIAS	40	40	0
16	10	HDR UNBIAS	40	40	0
17	10	HDR UNBIAS	40	40	0
18	10	HDR UNBIAS	40	40	0
19	10	HDR UNBIAS	40	40	0
20	10	HDR UNBIAS	40	40	0
31	30	HDR BIAS	40	40	0
32	30	HDR BIAS	40	40	0
33	30	HDR BIAS	40	40	0
34	30	HDR BIAS	40	40	0
35	30	HDR BIAS	40	40	0
36	30	HDR UNBIAS	40	40	0
37	30	HDR UNBIAS	40	40	0
38	30	HDR UNBIAS	40	40	0
39	30	HDR UNBIAS	40	40	0
40	30	HDR UNBIAS	40	40	0
41	50	HDR BIAS	40	40	0
42	50	HDR BIAS	40	40	0
43	50	HDR BIAS	40	40	0
44	50	HDR BIAS	40	40	0
45	50	HDR BIAS	40	40	0
46	50	HDR UNBIAS	40	40	0
47	50	HDR UNBIAS	40	40	0
48	50	HDR UNBIAS	40	40	0
49	50	HDR UNBIAS	40	40	0
50	50	HDR UNBIAS	40	40	0
51	100	HDR BIAS	40	40	0
52	100	HDR BIAS	40	40	0
53	100	HDR BIAS	40	40	0
54	100	HDR BIAS	40	40	0
55	100	HDR BIAS	40	40	0
56	100	HDR UNBIAS	40	40	0
57	100	HDR UNBIAS	40	40	0
58	100	HDR UNBIAS	40	40	0
59	100	HDR UNBIAS	40	40	0
60	100	HDR UNBIAS	40	40	0
91	0	CORRELATION	40	40	0
92	0	CORRELATION	40	40	0
93	0	CORRELATION	40	40	0
94	0	CORRELATION	40	40	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	40	40	40	0	40	40	40	0	0	0	0	0
3	40	40	40	0	40	40	40	0	0	0	0	0
10	40	40	40	0	40	40	40	0	0	0	0	0
30	40	40	40	0	40	40	40	0	0	0	0	0
50	40	40	40	0	40	40	40	0	0	0	0	0
100	40	40	40	0	40	40	40	0	0	0	0	0

Device Test: 20.42 PF|DCL_60/SYNC/12/12/0/0/5/500kHz//@DUTY_SYNC_EXT





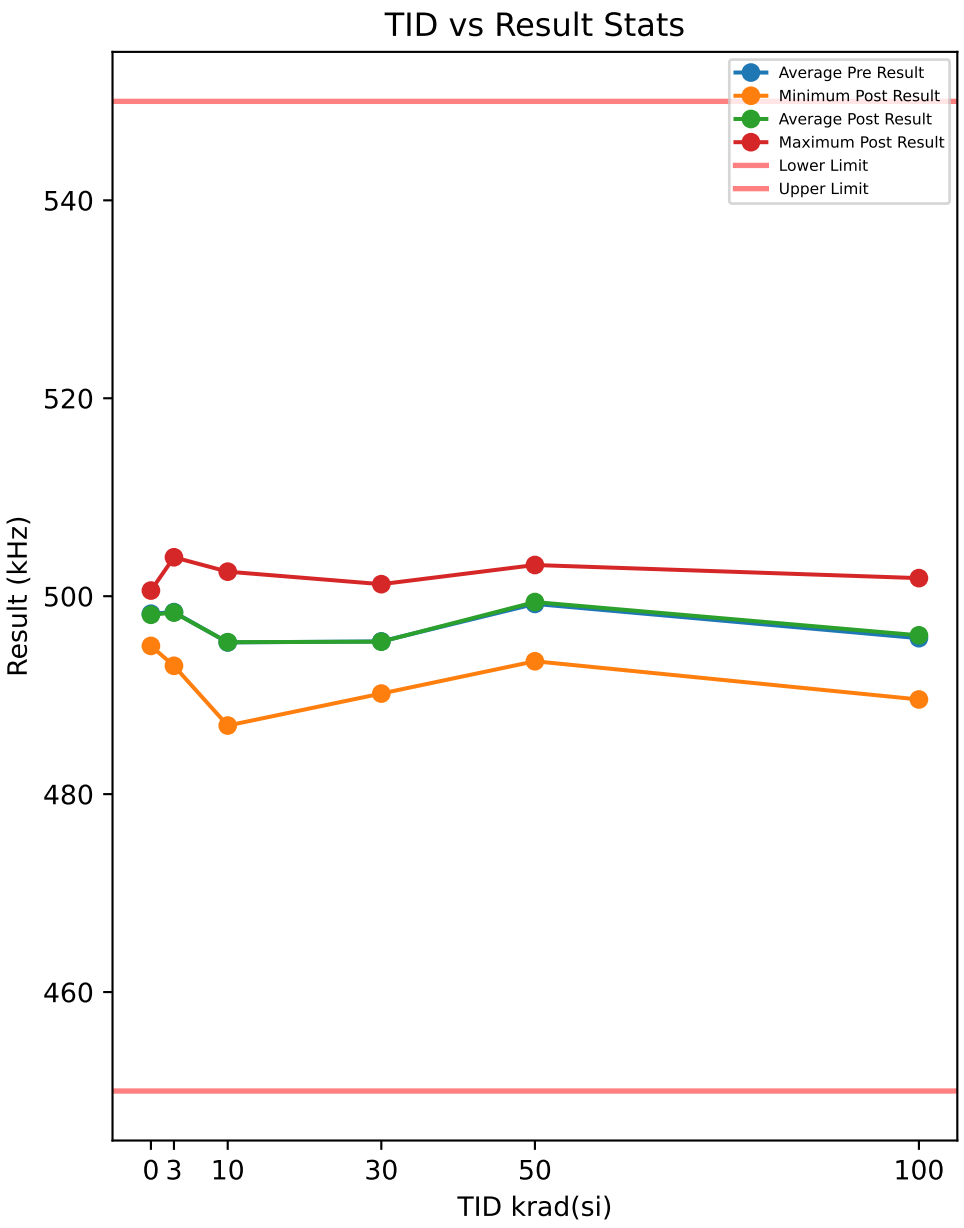
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

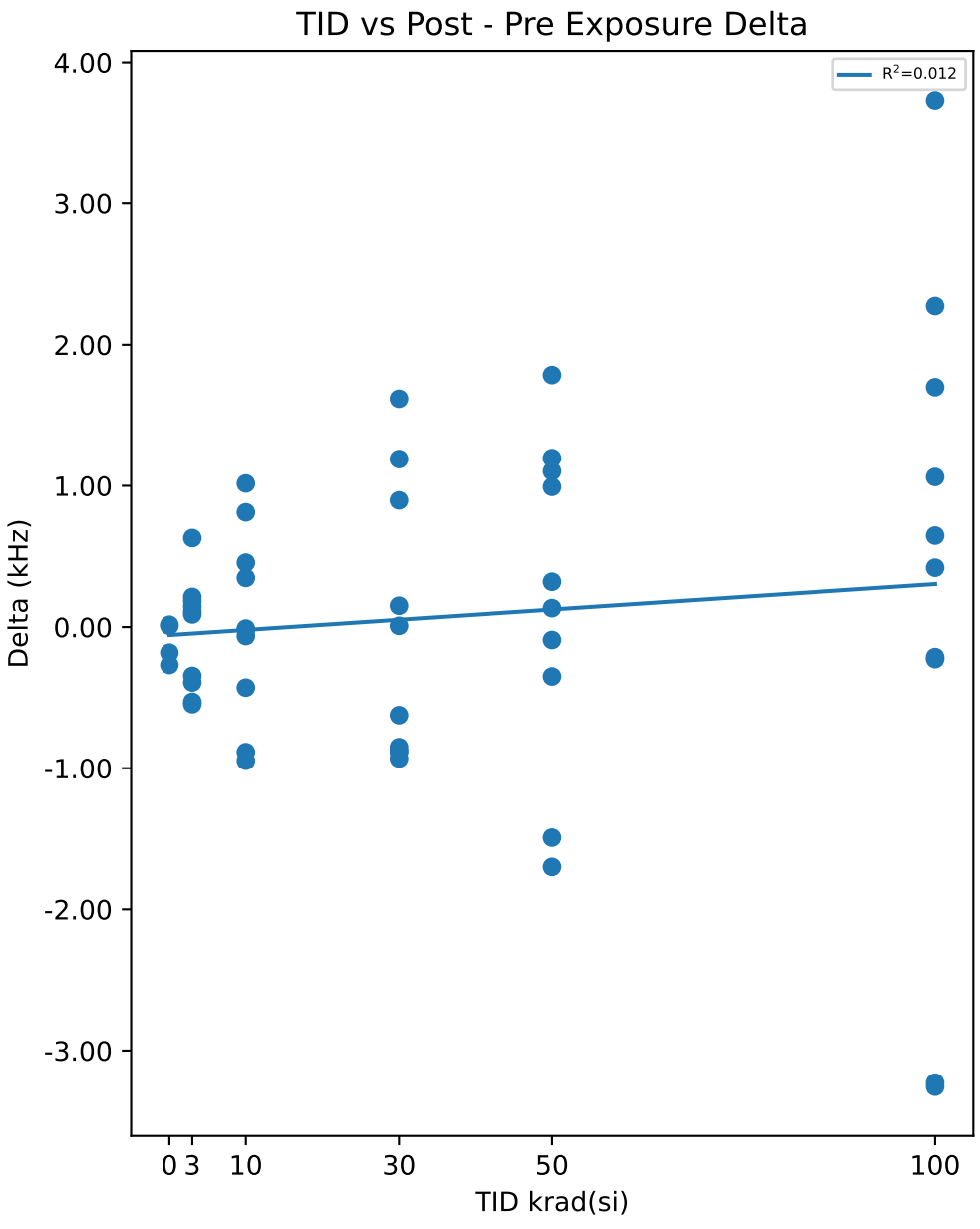
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	60	60	0
2	3	HDR BIAS	60	60	0
3	3	HDR BIAS	60	60	0
4	3	HDR BIAS	60	60	0
5	3	HDR BIAS	60	60	0
6	3	HDR UNBIAS	60	60	0
7	3	HDR UNBIAS	60	60	0
8	3	HDR UNBIAS	60	60	0
9	3	HDR UNBIAS	60	60	0
10	3	HDR UNBIAS	60	60	0
11	10	HDR BIAS	60	60	0
12	10	HDR BIAS	60	60	0
13	10	HDR BIAS	60	60	0
14	10	HDR BIAS	60	60	0
15	10	HDR BIAS	60	60	0
16	10	HDR UNBIAS	60	60	0
17	10	HDR UNBIAS	60	60	0
18	10	HDR UNBIAS	60	60	0
19	10	HDR UNBIAS	60	60	0
20	10	HDR UNBIAS	60	60	0
31	30	HDR BIAS	60	60	0
32	30	HDR BIAS	60	60	0
33	30	HDR BIAS	60	60	0
34	30	HDR BIAS	60	60	0
35	30	HDR BIAS	60	60	0
36	30	HDR UNBIAS	60	60	0
37	30	HDR UNBIAS	60	60	0
38	30	HDR UNBIAS	60	60	0
39	30	HDR UNBIAS	60	60	0
40	30	HDR UNBIAS	60	60	0
41	50	HDR BIAS	60	60	0
42	50	HDR BIAS	60	60	0
43	50	HDR BIAS	60	60	0
44	50	HDR BIAS	60	60	0
45	50	HDR BIAS	60	60	0
46	50	HDR UNBIAS	60	60	0
47	50	HDR UNBIAS	60	60	0
48	50	HDR UNBIAS	60	60	0
49	50	HDR UNBIAS	60	60	0
50	50	HDR UNBIAS	60	60	0
51	100	HDR BIAS	60	60	0
52	100	HDR BIAS	60	60	0
53	100	HDR BIAS	60	60	0
54	100	HDR BIAS	60	60	0
55	100	HDR BIAS	60	60	0
56	100	HDR UNBIAS	60	60	0
57	100	HDR UNBIAS	60	60	0
58	100	HDR UNBIAS	60	60	0
59	100	HDR UNBIAS	60	60	0
60	100	HDR UNBIAS	60	60	0
91	0	CORRELATION	60	60	0
92	0	CORRELATION	60	60	0
93	0	CORRELATION	60	60	0
94	0	CORRELATION	60	60	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	60	60	60	0	60	60	60	0	0	0	0	0
3	60	60	60	0	60	60	60	0	0	0	0	0
10	60	60	60	0	60	60	60	0	0	0	0	0
30	60	60	60	0	60	60	60	0	0	0	0	0
50	60	60	60	0	60	60	60	0	0	0	0	0
100	60	60	60	0	60	60	60	0	0	0	0	0

Device Test: 20.43 LEVEL|FREQ/RT/14/14/0/0/5/500kHz//@FSW_EXT_RT_C





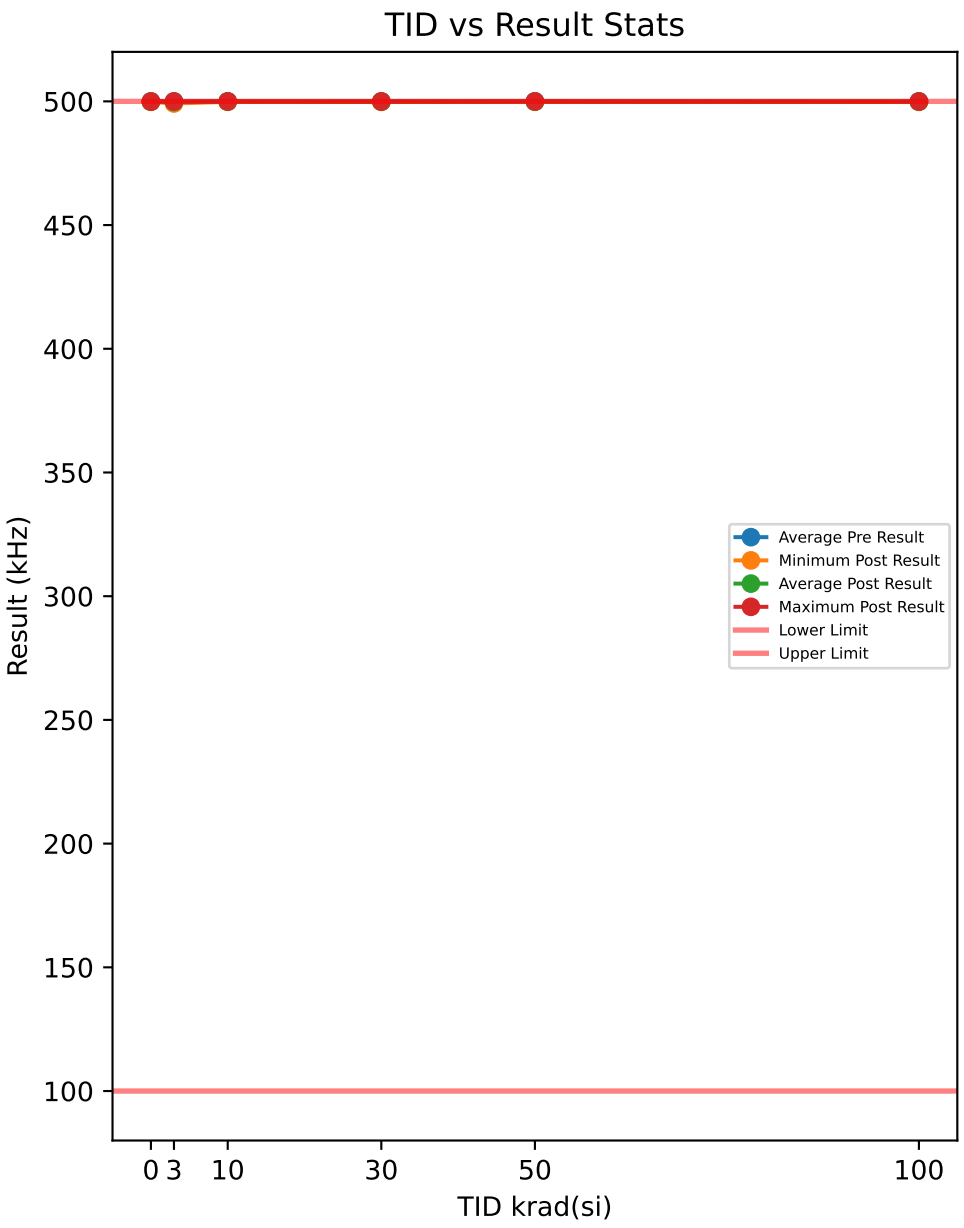
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

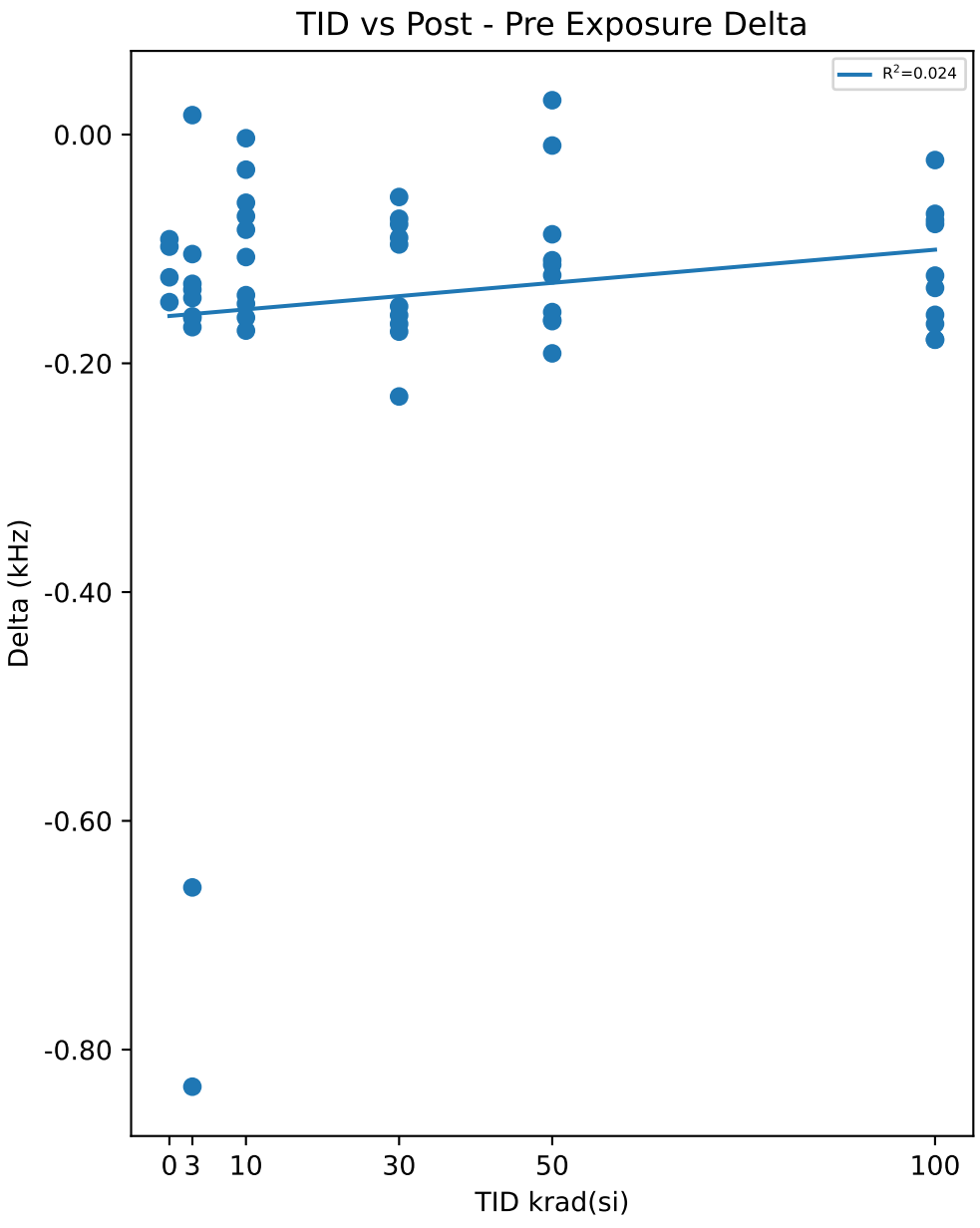
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	498.2	498.29	0.0896
2	3	HDR BIAS	498.52	497.97	-0.5459
3	3	HDR BIAS	503.72	503.93	0.2128
4	3	HDR BIAS	496.77	496.95	0.1834
5	3	HDR BIAS	501.93	502.08	0.1455
6	3	HDR UNBIAS	498.68	498.28	-0.3923
7	3	HDR UNBIAS	493.31	492.97	-0.3455
8	3	HDR UNBIAS	498.47	497.94	-0.5293
9	3	HDR UNBIAS	498.45	499.08	0.6297
10	3	HDR UNBIAS	495.87	495.98	0.1102
11	10	HDR BIAS	497.52	497.87	0.3476
12	10	HDR BIAS	495.66	496.67	1.0166
13	10	HDR BIAS	494.12	494.1	-0.0221
14	10	HDR BIAS	502.49	502.48	-0.0108
15	10	HDR BIAS	491.03	490.97	-0.0632
16	10	HDR UNBIAS	497.86	497.43	-0.4288
17	10	HDR UNBIAS	486.12	486.93	0.8119
18	10	HDR UNBIAS	497.26	496.32	-0.9466
19	10	HDR UNBIAS	491.78	492.24	0.4556
20	10	HDR UNBIAS	499.42	498.54	-0.8862
31	30	HDR BIAS	491.84	493.03	1.1898
32	30	HDR BIAS	493.83	493.84	0.0088
33	30	HDR BIAS	491.09	490.16	-0.9317
34	30	HDR BIAS	494.69	493.81	-0.8785
35	30	HDR BIAS	494.35	493.73	-0.6239
36	30	HDR UNBIAS	500.05	499.2	-0.8508
37	30	HDR UNBIAS	494.12	495.74	1.6173
38	30	HDR UNBIAS	499.66	499.81	0.1507
39	30	HDR UNBIAS	494.38	493.49	-0.8855
40	30	HDR UNBIAS	500.32	501.22	0.8966
41	50	HDR BIAS	503.81	502.11	-1.6997
42	50	HDR BIAS	500.21	501.31	1.1037
43	50	HDR BIAS	503.5	503.15	-0.3498
44	50	HDR BIAS	492.43	493.43	0.9928
45	50	HDR BIAS	494.85	495.17	0.3205
46	50	HDR UNBIAS	502.79	502.92	0.1338
47	50	HDR UNBIAS	494.8	496.58	1.7854
48	50	HDR UNBIAS	499.6	498.11	-1.4921
49	50	HDR UNBIAS	498.21	499.41	1.1965
50	50	HDR UNBIAS	501.99	501.9	-0.0913
51	100	HDR BIAS	500.76	501.83	1.0627
52	100	HDR BIAS	495.36	495.14	-0.2267
53	100	HDR BIAS	493.57	497.3	3.7318
54	100	HDR BIAS	494.23	494.65	0.4197
55	100	HDR BIAS	496.01	495.8	-0.2124
56	100	HDR UNBIAS	497.48	494.22	-3.2561
57	100	HDR UNBIAS	487.29	489.56	2.2741
58	100	HDR UNBIAS	495.83	496.48	0.6473
59	100	HDR UNBIAS	499.5	501.2	1.6993
60	100	HDR UNBIAS	497.53	494.3	-3.2282
91	0	CORRELATION	494.97	494.98	0.0092
92	0	CORRELATION	499.85	499.87	0.0166
93	0	CORRELATION	497.26	497.08	-0.1813
94	0	CORRELATION	500.84	500.57	-0.2681

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.97	498.23	500.84	2.6477	494.98	498.12	500.57	2.5845	-0.2681	-0.1059	0.0166	0.14171
3	493.31	498.39	503.72	2.9036	492.97	498.35	503.93	3.0272	-0.5459	-0.04418	0.6297	0.38711
10	486.12	495.33	502.49	4.7193	486.93	495.35	502.48	4.4182	-0.9466	0.0274	1.0166	0.65688
30	491.09	495.43	500.32	3.3649	490.16	495.4	501.22	3.5316	-0.9317	-0.03072	1.6173	0.96526
50	492.43	499.22	503.81	4.0361	493.43	499.41	503.15	3.4464	-1.6997	0.18998	1.7854	1.1464
100	487.29	495.76	500.76	3.7147	489.56	496.05	501.83	3.5418	-3.2561	0.29115	3.7318	2.2106

Device Test: 20.44 LEVEL|FREQ/SYNC/14/14/0/0/5/500kHz//@FREQ_SYNC_EXT_503X





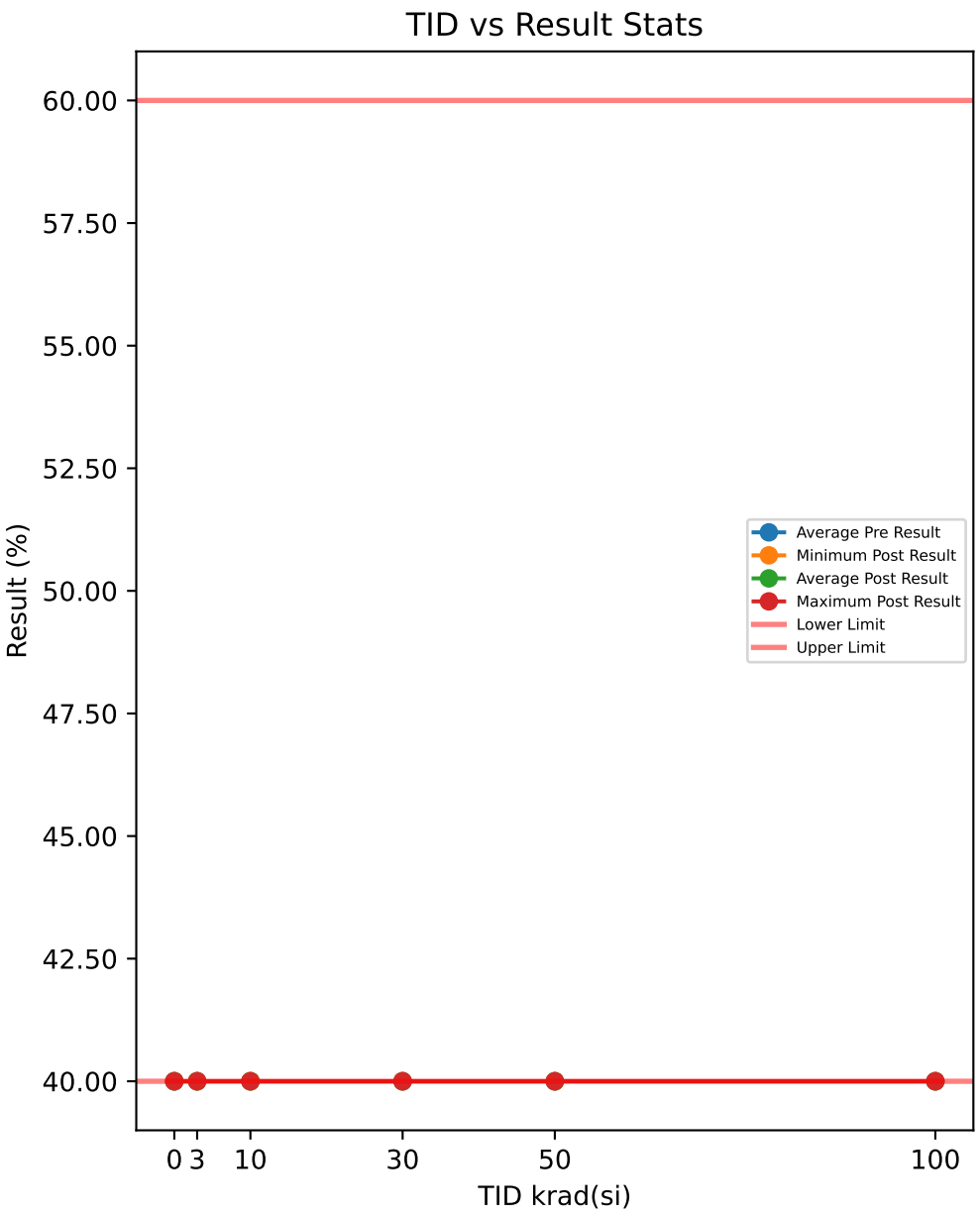
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

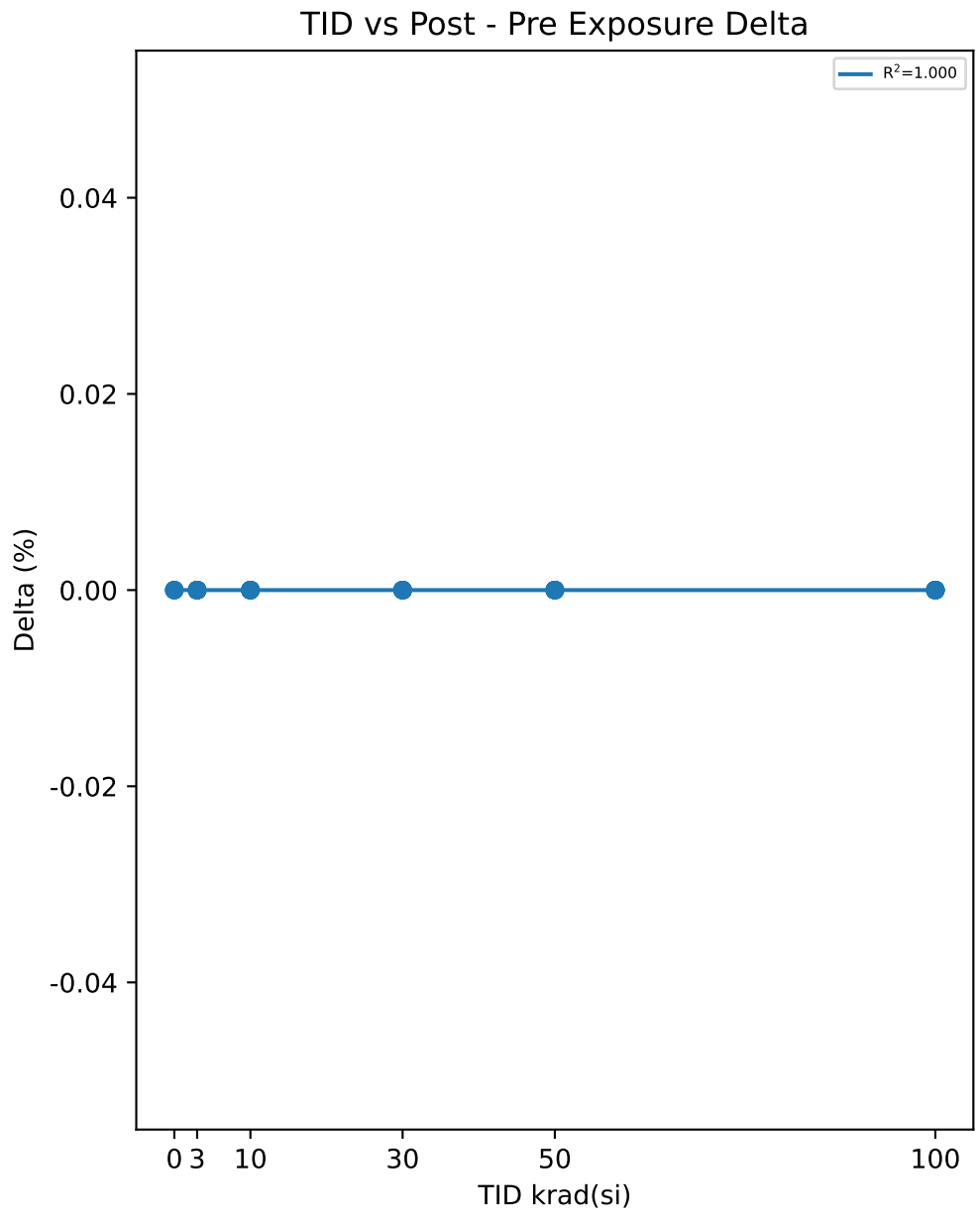
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	499.98	499.84	-0.1355
2	3	HDR BIAS	500.01	499.86	-0.1429
3	3	HDR BIAS	499.95	499.84	-0.1045
4	3	HDR BIAS	500	499.84	-0.159
5	3	HDR BIAS	499.97	499.14	-0.8324
6	3	HDR UNBIAS	499.94	499.28	-0.6582
7	3	HDR UNBIAS	499.97	499.8	-0.1684
8	3	HDR UNBIAS	500.04	499.88	-0.1606
9	3	HDR UNBIAS	499.94	499.96	0.017
10	3	HDR UNBIAS	500.01	499.88	-0.1305
11	10	HDR BIAS	499.99	499.85	-0.1404
12	10	HDR BIAS	499.95	499.89	-0.0596
13	10	HDR BIAS	499.96	499.96	-0.0032
14	10	HDR BIAS	499.97	499.87	-0.1071
15	10	HDR BIAS	499.99	499.82	-0.1714
16	10	HDR UNBIAS	499.97	499.88	-0.0832
17	10	HDR UNBIAS	500.02	499.98	-0.0307
18	10	HDR UNBIAS	499.94	499.87	-0.0714
19	10	HDR UNBIAS	499.97	499.81	-0.16
20	10	HDR UNBIAS	500.03	499.88	-0.1479
31	30	HDR BIAS	500.02	499.85	-0.1656
32	30	HDR BIAS	500.03	499.88	-0.1502
33	30	HDR BIAS	499.93	499.86	-0.0736
34	30	HDR BIAS	499.96	499.86	-0.0961
35	30	HDR BIAS	500.03	499.8	-0.229
36	30	HDR UNBIAS	499.95	499.87	-0.0784
37	30	HDR UNBIAS	500.02	499.96	-0.0546
38	30	HDR UNBIAS	500.03	499.87	-0.158
39	30	HDR UNBIAS	499.94	499.85	-0.0902
40	30	HDR UNBIAS	500.02	499.85	-0.1723
41	50	HDR BIAS	500.01	500	-0.0096
42	50	HDR BIAS	499.95	499.84	-0.1138
43	50	HDR BIAS	500	499.84	-0.1621
44	50	HDR BIAS	499.97	499.85	-0.123
45	50	HDR BIAS	499.98	499.87	-0.1099
46	50	HDR UNBIAS	500.01	499.82	-0.1913
47	50	HDR UNBIAS	500	499.83	-0.1631
48	50	HDR UNBIAS	499.97	499.88	-0.0872
49	50	HDR UNBIAS	499.97	500	0.03
50	50	HDR UNBIAS	500.03	499.87	-0.1552
51	100	HDR BIAS	499.97	499.81	-0.1656
52	100	HDR BIAS	500.01	499.87	-0.1341
53	100	HDR BIAS	500.02	499.95	-0.0693
54	100	HDR BIAS	499.97	499.89	-0.0782
55	100	HDR BIAS	500	499.85	-0.1576
56	100	HDR UNBIAS	500.03	499.85	-0.1794
57	100	HDR UNBIAS	499.94	499.92	-0.0223
58	100	HDR UNBIAS	499.97	499.85	-0.1233
59	100	HDR UNBIAS	500.02	499.85	-0.1792
60	100	HDR UNBIAS	499.96	499.89	-0.0748
91	0	CORRELATION	500.02	499.93	-0.0915
92	0	CORRELATION	499.98	499.89	-0.098
93	0	CORRELATION	499.96	499.81	-0.1465
94	0	CORRELATION	499.97	499.85	-0.1248

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.96	499.98	500.02	0.027814	499.81	499.87	499.93	0.051487	-0.1465	-0.1152	-0.0915	0.02536
3	499.94	499.98	500.04	0.032941	499.14	499.73	499.96	0.27969	-0.8324	-0.2475	0.017	0.2708
10	499.94	499.98	500.03	0.027672	499.81	499.88	499.98	0.054061	-0.1714	-0.09749	-0.0032	0.057268
30	499.93	499.99	500.03	0.040353	499.8	499.87	499.96	0.040266	-0.229	-0.1268	-0.0546	0.055985
50	499.95	499.99	500.03	0.02458	499.82	499.88	500	0.064751	-0.1913	-0.10852	0.03	0.070355
100	499.94	499.99	500.03	0.030357	499.81	499.87	499.95	0.041421	-0.1794	-0.11838	-0.0223	0.054381

Device Test: 20.45 PF|DCL_40/SYNC/14/14/0/0/5/500kHz//@DUTY_SYNC_EXT





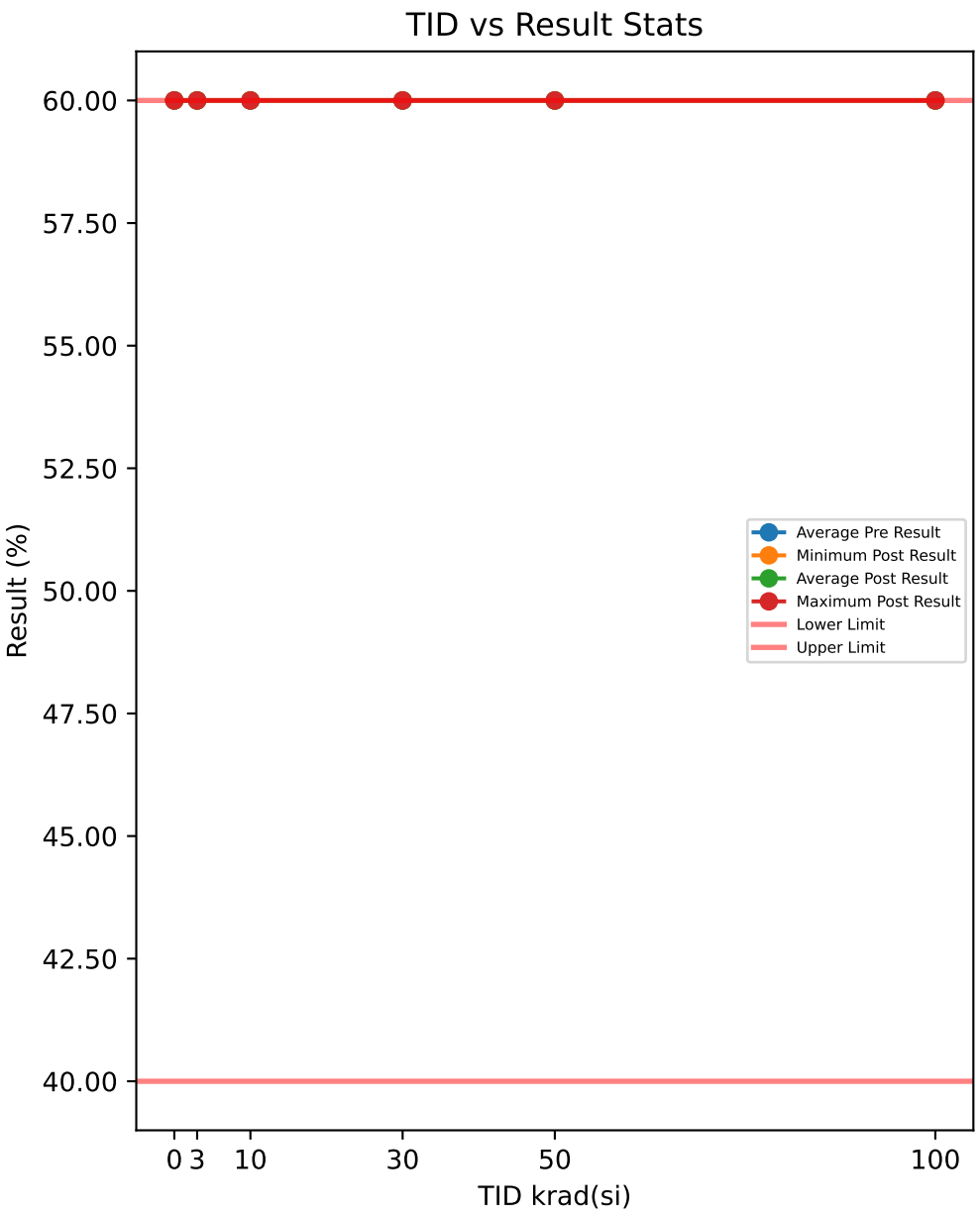
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

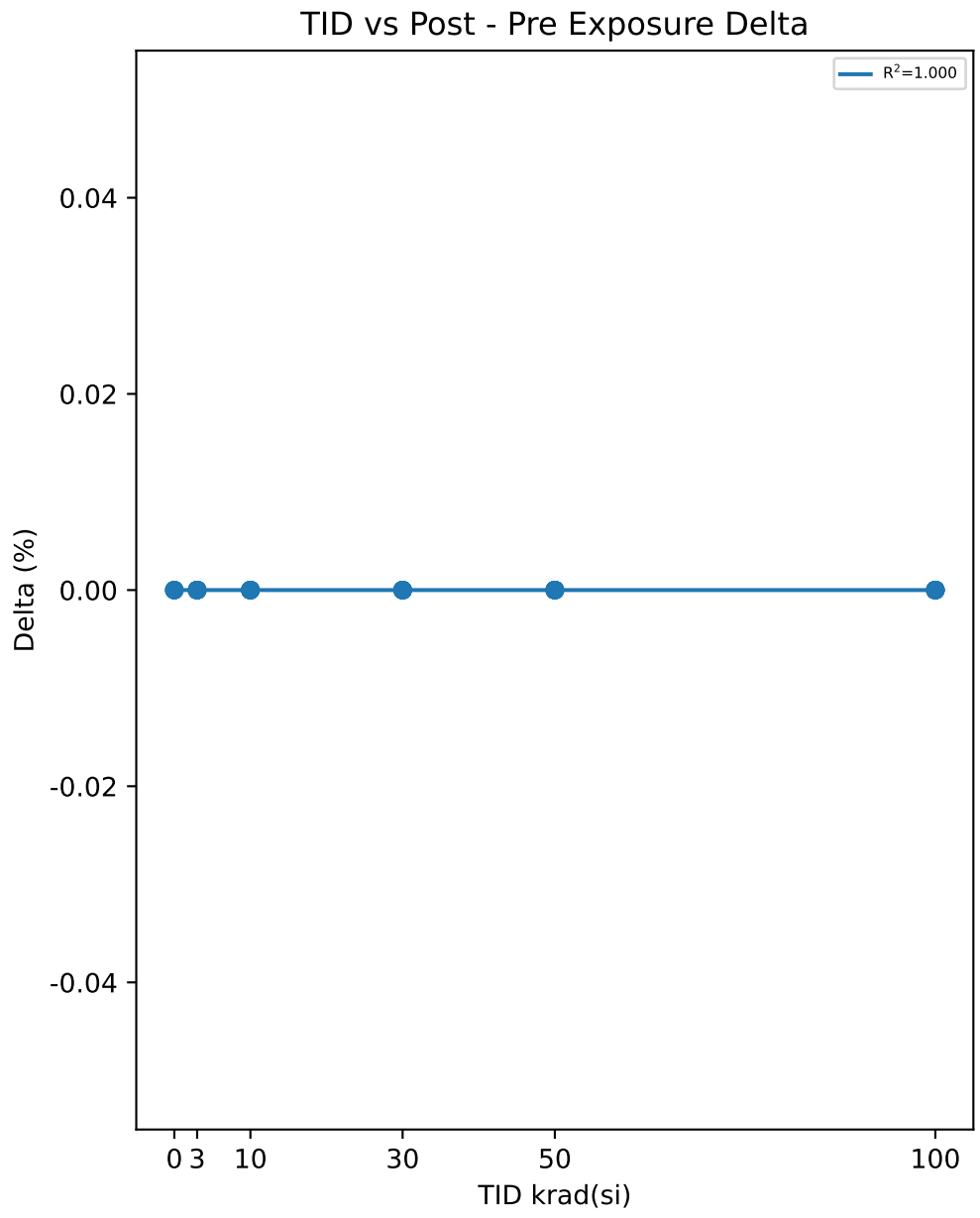
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	40	40	0
2	3	HDR BIAS	40	40	0
3	3	HDR BIAS	40	40	0
4	3	HDR BIAS	40	40	0
5	3	HDR BIAS	40	40	0
6	3	HDR UNBIAS	40	40	0
7	3	HDR UNBIAS	40	40	0
8	3	HDR UNBIAS	40	40	0
9	3	HDR UNBIAS	40	40	0
10	3	HDR UNBIAS	40	40	0
11	10	HDR BIAS	40	40	0
12	10	HDR BIAS	40	40	0
13	10	HDR BIAS	40	40	0
14	10	HDR BIAS	40	40	0
15	10	HDR BIAS	40	40	0
16	10	HDR UNBIAS	40	40	0
17	10	HDR UNBIAS	40	40	0
18	10	HDR UNBIAS	40	40	0
19	10	HDR UNBIAS	40	40	0
20	10	HDR UNBIAS	40	40	0
31	30	HDR BIAS	40	40	0
32	30	HDR BIAS	40	40	0
33	30	HDR BIAS	40	40	0
34	30	HDR BIAS	40	40	0
35	30	HDR BIAS	40	40	0
36	30	HDR UNBIAS	40	40	0
37	30	HDR UNBIAS	40	40	0
38	30	HDR UNBIAS	40	40	0
39	30	HDR UNBIAS	40	40	0
40	30	HDR UNBIAS	40	40	0
41	50	HDR BIAS	40	40	0
42	50	HDR BIAS	40	40	0
43	50	HDR BIAS	40	40	0
44	50	HDR BIAS	40	40	0
45	50	HDR BIAS	40	40	0
46	50	HDR UNBIAS	40	40	0
47	50	HDR UNBIAS	40	40	0
48	50	HDR UNBIAS	40	40	0
49	50	HDR UNBIAS	40	40	0
50	50	HDR UNBIAS	40	40	0
51	100	HDR BIAS	40	40	0
52	100	HDR BIAS	40	40	0
53	100	HDR BIAS	40	40	0
54	100	HDR BIAS	40	40	0
55	100	HDR BIAS	40	40	0
56	100	HDR UNBIAS	40	40	0
57	100	HDR UNBIAS	40	40	0
58	100	HDR UNBIAS	40	40	0
59	100	HDR UNBIAS	40	40	0
60	100	HDR UNBIAS	40	40	0
91	0	CORRELATION	40	40	0
92	0	CORRELATION	40	40	0
93	0	CORRELATION	40	40	0
94	0	CORRELATION	40	40	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	40	40	40	0	40	40	40	0	0	0	0	0
3	40	40	40	0	40	40	40	0	0	0	0	0
10	40	40	40	0	40	40	40	0	0	0	0	0
30	40	40	40	0	40	40	40	0	0	0	0	0
50	40	40	40	0	40	40	40	0	0	0	0	0
100	40	40	40	0	40	40	40	0	0	0	0	0

Device Test: 20.46 PF|DCL_60/SYNC/14/14/0/0/5/500kHz//@DUTY_SYNC_EXT





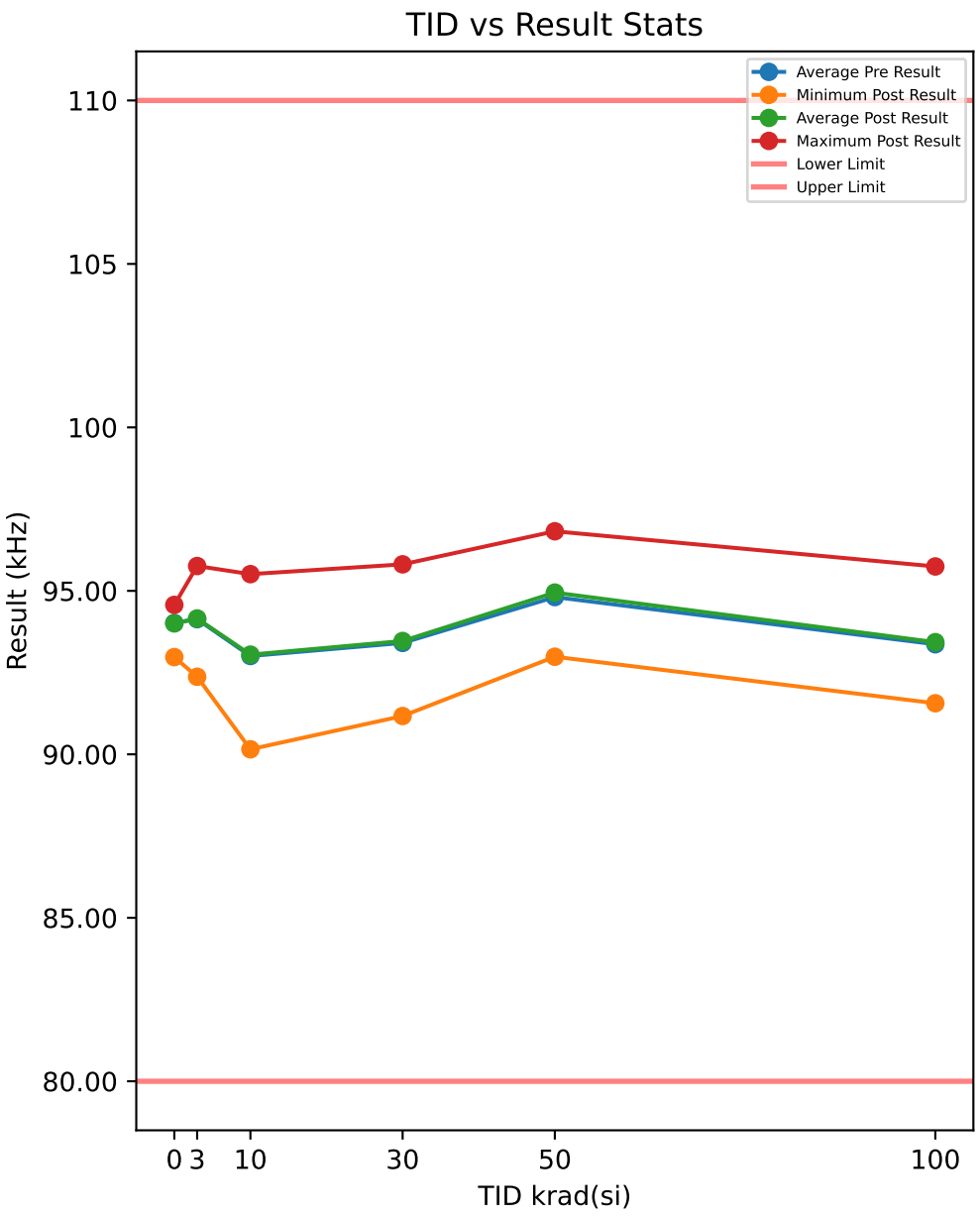
Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

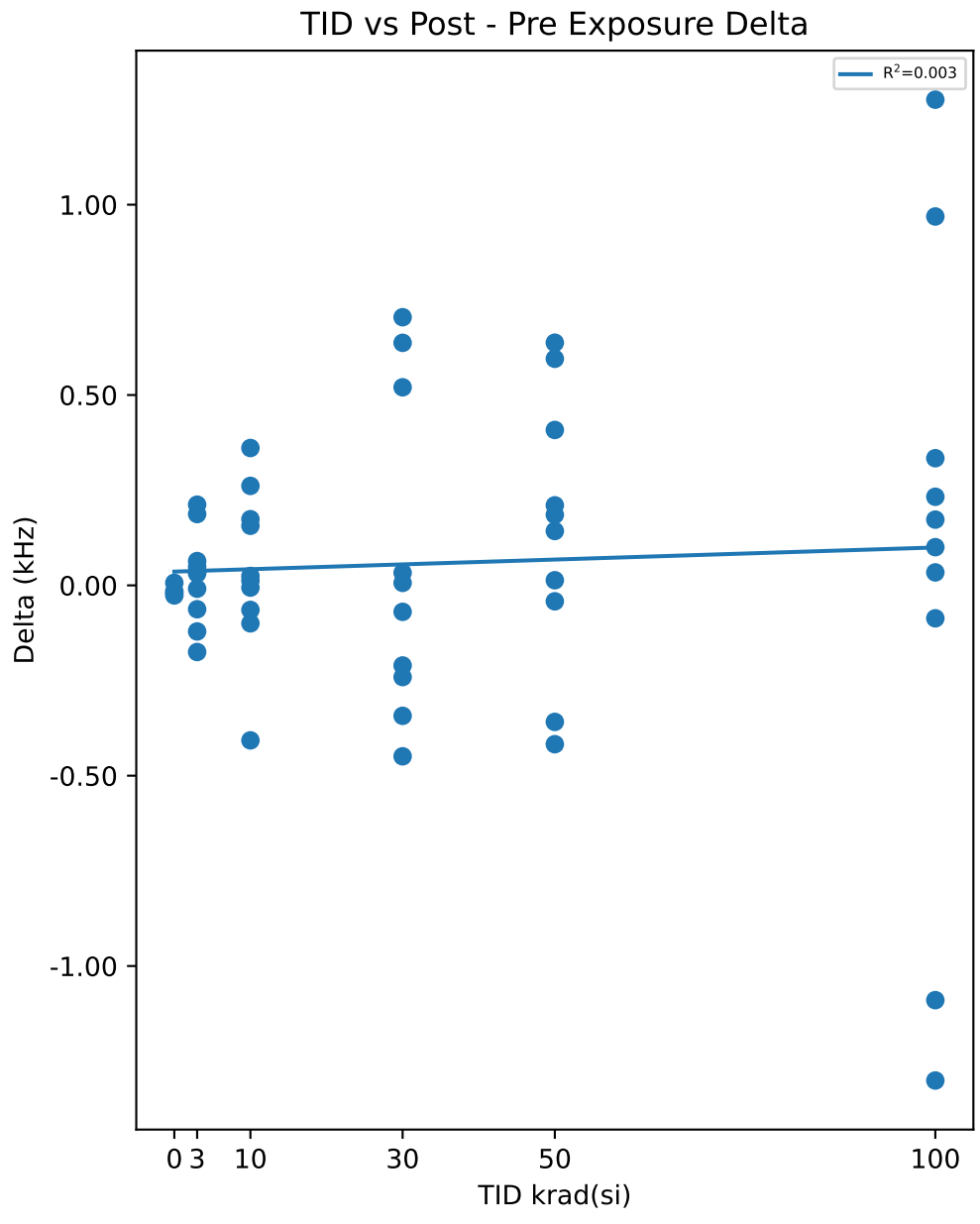
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	60	60	0
2	3	HDR BIAS	60	60	0
3	3	HDR BIAS	60	60	0
4	3	HDR BIAS	60	60	0
5	3	HDR BIAS	60	60	0
6	3	HDR UNBIAS	60	60	0
7	3	HDR UNBIAS	60	60	0
8	3	HDR UNBIAS	60	60	0
9	3	HDR UNBIAS	60	60	0
10	3	HDR UNBIAS	60	60	0
11	10	HDR BIAS	60	60	0
12	10	HDR BIAS	60	60	0
13	10	HDR BIAS	60	60	0
14	10	HDR BIAS	60	60	0
15	10	HDR BIAS	60	60	0
16	10	HDR UNBIAS	60	60	0
17	10	HDR UNBIAS	60	60	0
18	10	HDR UNBIAS	60	60	0
19	10	HDR UNBIAS	60	60	0
20	10	HDR UNBIAS	60	60	0
31	30	HDR BIAS	60	60	0
32	30	HDR BIAS	60	60	0
33	30	HDR BIAS	60	60	0
34	30	HDR BIAS	60	60	0
35	30	HDR BIAS	60	60	0
36	30	HDR UNBIAS	60	60	0
37	30	HDR UNBIAS	60	60	0
38	30	HDR UNBIAS	60	60	0
39	30	HDR UNBIAS	60	60	0
40	30	HDR UNBIAS	60	60	0
41	50	HDR BIAS	60	60	0
42	50	HDR BIAS	60	60	0
43	50	HDR BIAS	60	60	0
44	50	HDR BIAS	60	60	0
45	50	HDR BIAS	60	60	0
46	50	HDR UNBIAS	60	60	0
47	50	HDR UNBIAS	60	60	0
48	50	HDR UNBIAS	60	60	0
49	50	HDR UNBIAS	60	60	0
50	50	HDR UNBIAS	60	60	0
51	100	HDR BIAS	60	60	0
52	100	HDR BIAS	60	60	0
53	100	HDR BIAS	60	60	0
54	100	HDR BIAS	60	60	0
55	100	HDR BIAS	60	60	0
56	100	HDR UNBIAS	60	60	0
57	100	HDR UNBIAS	60	60	0
58	100	HDR UNBIAS	60	60	0
59	100	HDR UNBIAS	60	60	0
60	100	HDR UNBIAS	60	60	0
91	0	CORRELATION	60	60	0
92	0	CORRELATION	60	60	0
93	0	CORRELATION	60	60	0
94	0	CORRELATION	60	60	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	60	60	60	0	60	60	60	0	0	0	0	0
3	60	60	60	0	60	60	60	0	0	0	0	0
10	60	60	60	0	60	60	60	0	0	0	0	0
30	60	60	60	0	60	60	60	0	0	0	0	0
50	60	60	60	0	60	60	60	0	0	0	0	0
100	60	60	60	0	60	60	60	0	0	0	0	0

Device Test: 20.47 LEVEL|FREQ/RT/12/12/0/1000/5/100kHz//@FSW_EXT_RT_A





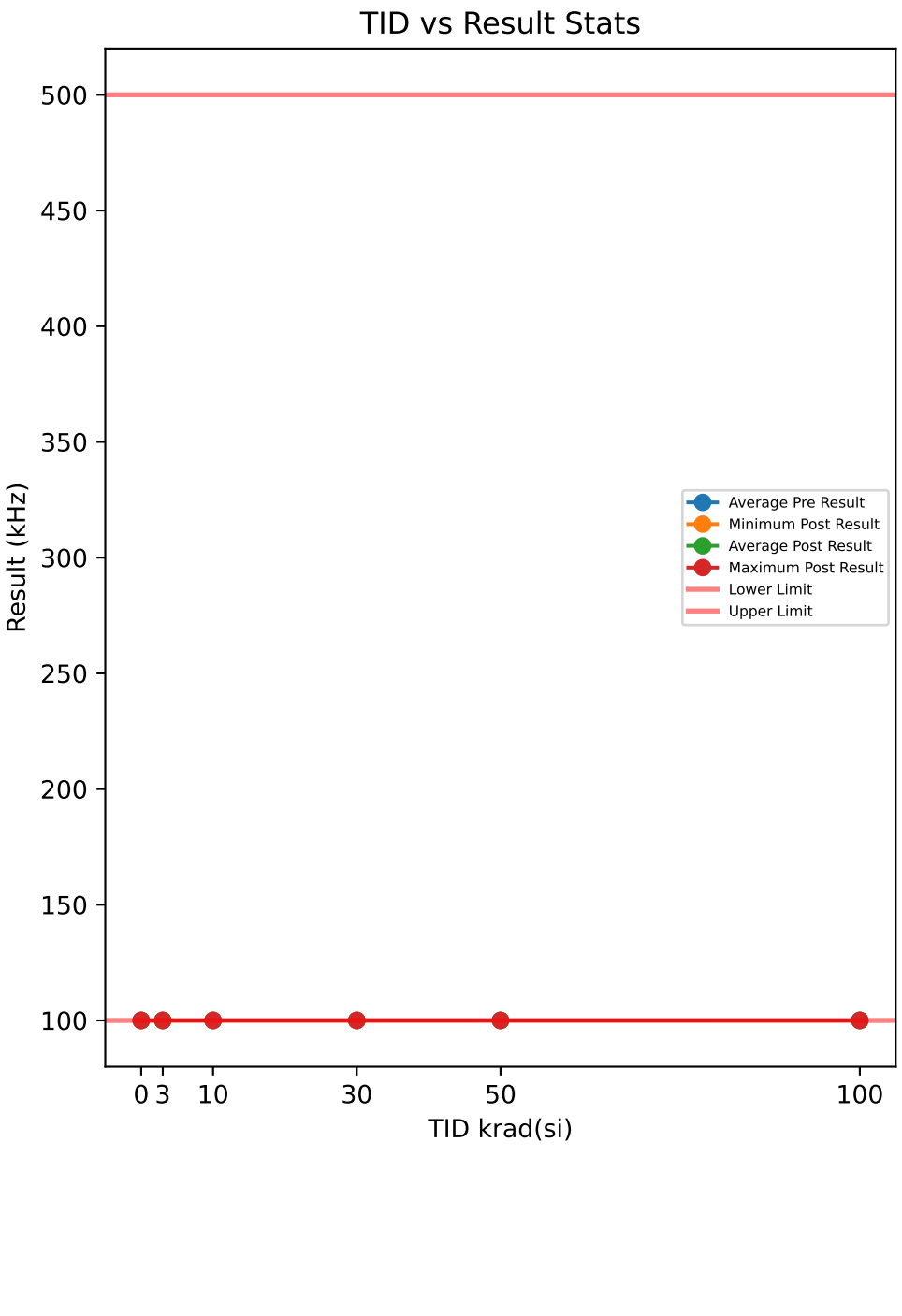
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

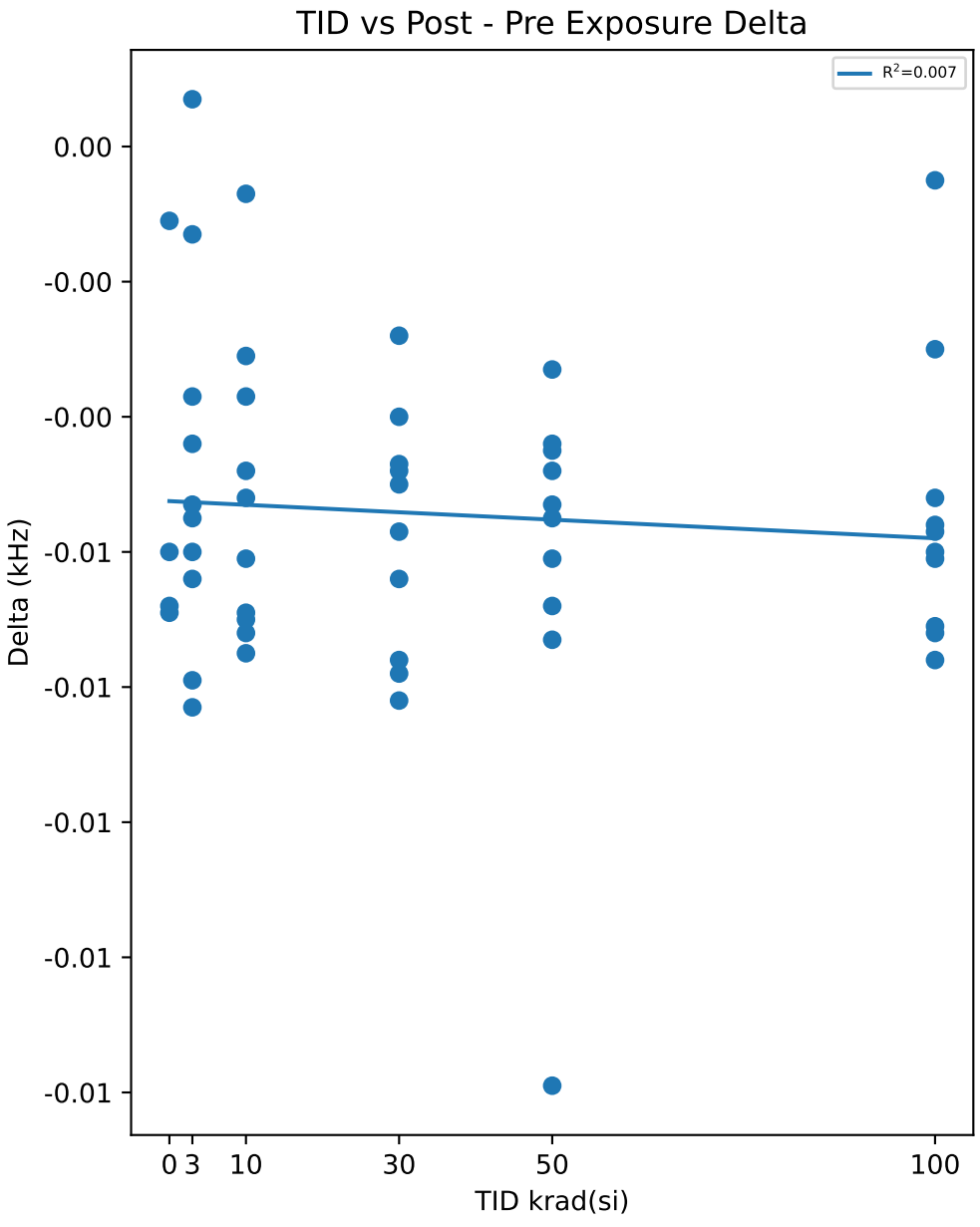
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	94.868	94.932	0.0638
2	3	HDR BIAS	93.965	93.79	-0.1751
3	3	HDR BIAS	95.342	95.377	0.0356
4	3	HDR BIAS	94.096	94.283	0.1873
5	3	HDR BIAS	95.728	95.76	0.0312
6	3	HDR UNBIAS	93.821	93.7	-0.1211
7	3	HDR UNBIAS	92.435	92.372	-0.0628
8	3	HDR UNBIAS	94.043	94.034	-0.0088
9	3	HDR UNBIAS	94.135	94.347	0.212
10	3	HDR UNBIAS	92.904	92.953	0.049
11	10	HDR BIAS	93.43	93.603	0.1738
12	10	HDR BIAS	93.229	93.59	0.3608
13	10	HDR BIAS	92.076	92.101	0.0247
14	10	HDR BIAS	95.499	95.511	0.0124
15	10	HDR BIAS	91.976	91.97	-0.0059
16	10	HDR UNBIAS	94.339	94.274	-0.0645
17	10	HDR UNBIAS	89.998	90.154	0.1565
18	10	HDR UNBIAS	93.629	93.222	-0.4072
19	10	HDR UNBIAS	91.431	91.692	0.2613
20	10	HDR UNBIAS	94.469	94.369	-0.0998
31	30	HDR BIAS	92.521	93.041	0.5203
32	30	HDR BIAS	92.37	92.3	-0.0696
33	30	HDR BIAS	91.621	91.172	-0.4491
34	30	HDR BIAS	93.108	92.897	-0.2105
35	30	HDR BIAS	93.514	93.521	0.0065
36	30	HDR UNBIAS	94.357	94.116	-0.2409
37	30	HDR UNBIAS	93.909	94.614	0.7044
38	30	HDR UNBIAS	94.171	94.204	0.0331
39	30	HDR UNBIAS	93.331	92.989	-0.3428
40	30	HDR UNBIAS	95.174	95.811	0.6371
41	50	HDR BIAS	96.713	96.354	-0.3587
42	50	HDR BIAS	95.365	95.323	-0.0419
43	50	HDR BIAS	96.679	96.822	0.1428
44	50	HDR BIAS	92.767	93.175	0.4082
45	50	HDR BIAS	92.972	92.985	0.0134
46	50	HDR UNBIAS	95.406	95.592	0.1853
47	50	HDR UNBIAS	93.699	94.294	0.5952
48	50	HDR UNBIAS	94.579	94.162	-0.4173
49	50	HDR UNBIAS	94.24	94.878	0.6374
50	50	HDR UNBIAS	95.675	95.885	0.2102
51	100	HDR BIAS	95.573	95.746	0.1727
52	100	HDR BIAS	93.927	93.961	0.034
53	100	HDR BIAS	92.385	93.66	1.2759
54	100	HDR BIAS	92.255	92.356	0.1003
55	100	HDR BIAS	93.383	93.296	-0.0866
56	100	HDR UNBIAS	94.681	93.38	-1.3008
57	100	HDR UNBIAS	90.593	91.562	0.969
58	100	HDR UNBIAS	92.475	92.707	0.2327
59	100	HDR UNBIAS	95.011	95.345	0.334
60	100	HDR UNBIAS	93.378	92.288	-1.0897
91	0	CORRELATION	93.979	93.959	-0.0206
92	0	CORRELATION	94.531	94.515	-0.0153
93	0	CORRELATION	92.967	92.974	0.0066
94	0	CORRELATION	94.597	94.57	-0.0265

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.967	94.018	94.597	0.75345	92.974	94.005	94.57	0.74052	-0.0265	-0.01395	0.0066	0.014444
3	92.435	94.134	95.728	1.0041	92.372	94.155	95.76	1.0383	-0.1751	0.02111	0.212	0.12185
10	89.998	93.007	95.499	1.6399	90.154	93.049	95.511	1.5713	-0.4072	0.04121	0.3608	0.21523
30	91.621	93.408	95.174	1.0551	91.172	93.466	95.811	1.2971	-0.4491	0.05885	0.7044	0.41709
50	92.767	94.81	96.713	1.4021	92.985	94.947	96.822	1.2897	-0.4173	0.13746	0.6374	0.35619
100	90.593	93.366	95.573	1.502	91.562	93.43	95.746	1.3273	-1.3008	0.06415	1.2759	0.79018

Device Test: 20.48 LEVEL|FREQ/SYNC/12/12/0/1000/5/100kHz//@FREQ_SYNC_EXT_503X





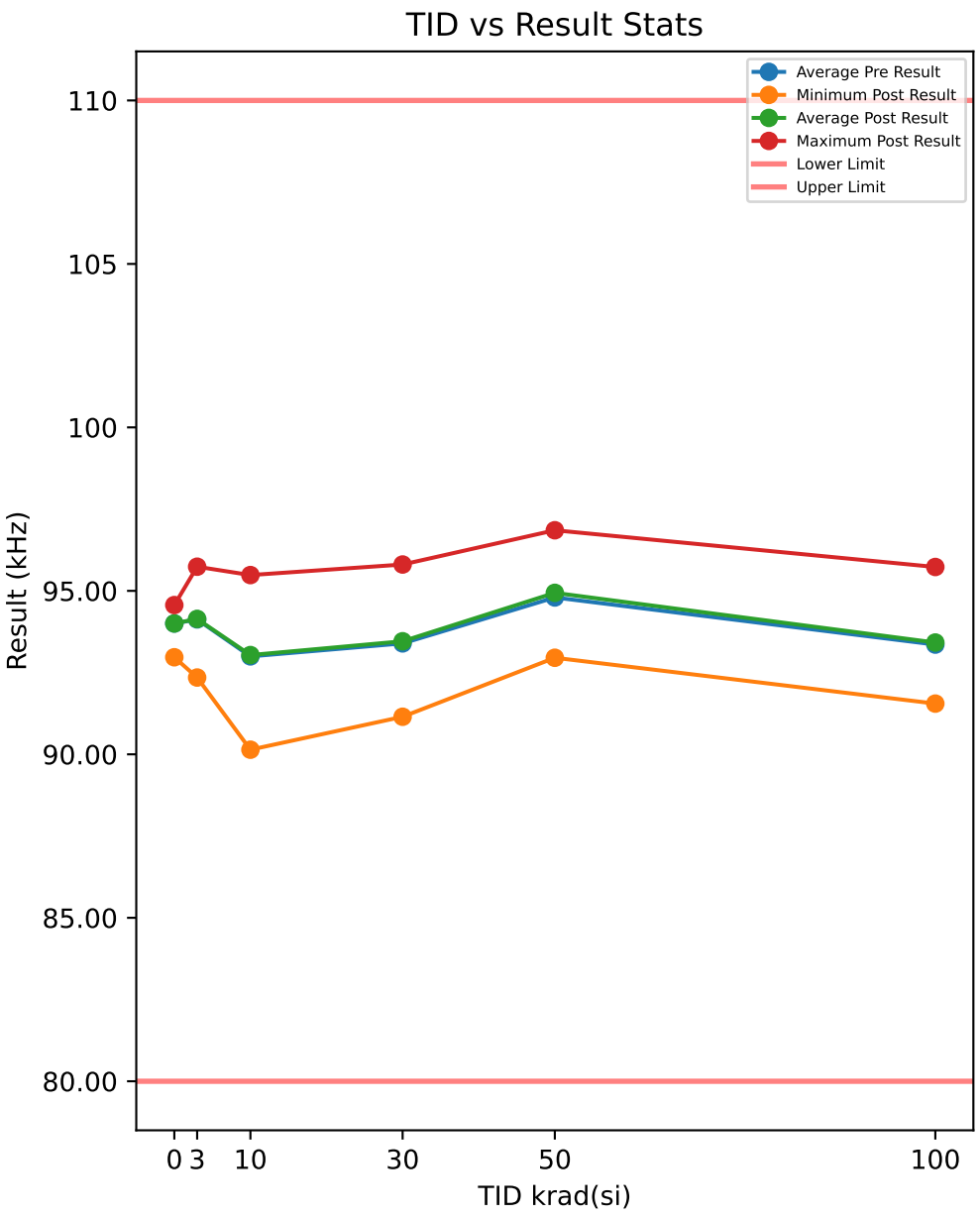
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

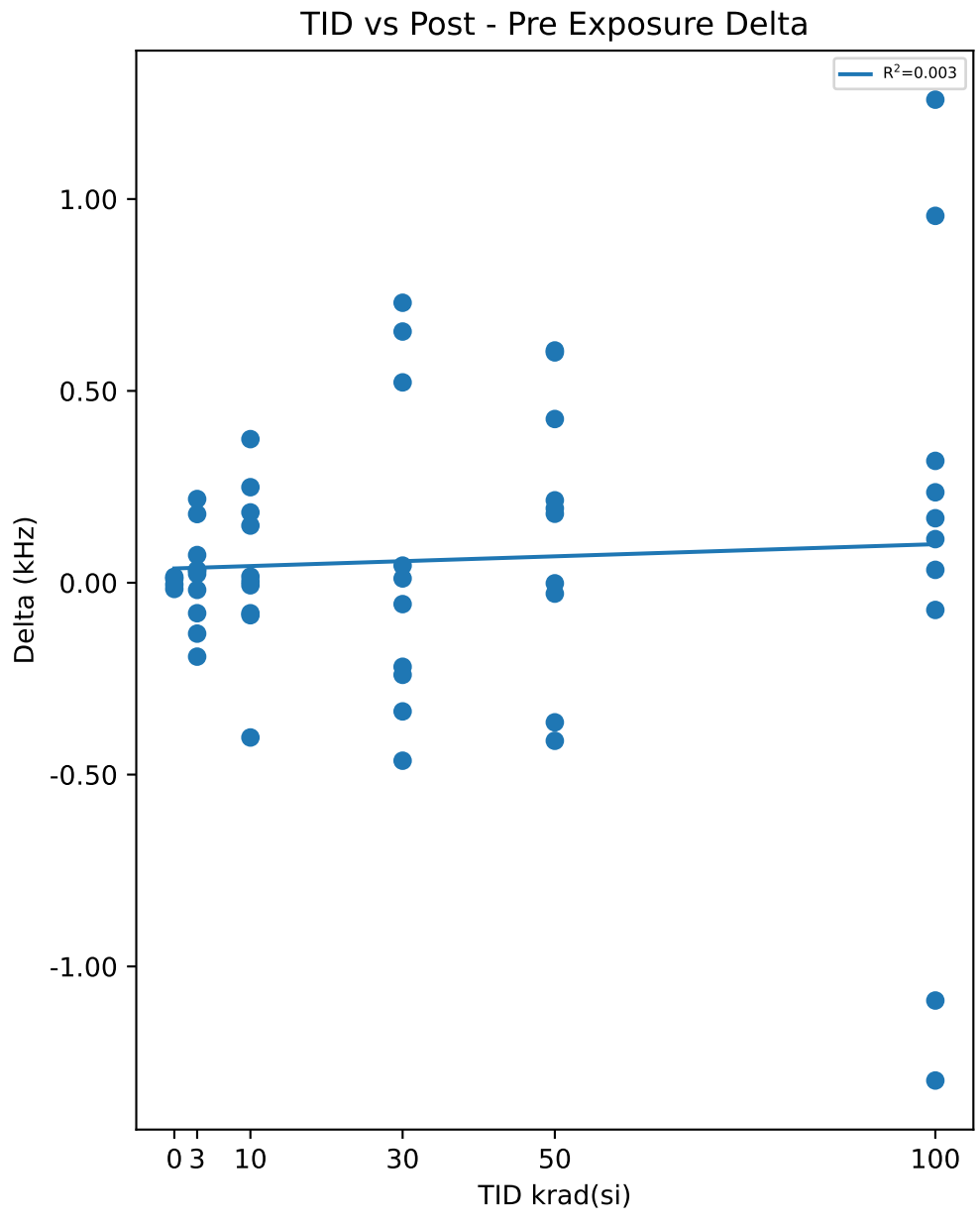
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	99.998	99.999	0.0007
2	3	HDR BIAS	100	99.993	-0.0083
3	3	HDR BIAS	99.999	99.993	-0.006
4	3	HDR BIAS	100	99.995	-0.0044
5	3	HDR BIAS	99.998	99.997	-0.0013
6	3	HDR UNBIAS	99.999	99.993	-0.0055
7	3	HDR UNBIAS	99.999	99.993	-0.0064
8	3	HDR UNBIAS	99.999	99.994	-0.0053
9	3	HDR UNBIAS	99.998	99.994	-0.0037
10	3	HDR UNBIAS	100	99.993	-0.0079
11	10	HDR BIAS	99.999	99.992	-0.007
12	10	HDR BIAS	99.999	99.995	-0.0037
13	10	HDR BIAS	100	99.999	-0.0007
14	10	HDR BIAS	100	99.993	-0.0075
15	10	HDR BIAS	100	99.993	-0.0061
16	10	HDR UNBIAS	100	99.994	-0.0069
17	10	HDR UNBIAS	100	99.997	-0.0048
18	10	HDR UNBIAS	99.999	99.994	-0.0052
19	10	HDR UNBIAS	99.999	99.992	-0.0072
20	10	HDR UNBIAS	99.999	99.996	-0.0031
31	30	HDR BIAS	99.999	99.994	-0.0047
32	30	HDR BIAS	99.999	99.994	-0.005
33	30	HDR BIAS	100	99.997	-0.0028
34	30	HDR BIAS	99.999	99.993	-0.0064
35	30	HDR BIAS	100	99.994	-0.0078
36	30	HDR UNBIAS	99.998	99.994	-0.004
37	30	HDR UNBIAS	100	99.995	-0.0057
38	30	HDR UNBIAS	100	99.994	-0.0082
39	30	HDR UNBIAS	100	99.992	-0.0076
40	30	HDR UNBIAS	100	99.995	-0.0048
41	50	HDR BIAS	99.999	99.996	-0.0033
42	50	HDR BIAS	99.999	99.995	-0.0044
43	50	HDR BIAS	99.998	99.984	-0.0139
44	50	HDR BIAS	100	99.994	-0.0068
45	50	HDR BIAS	99.998	99.993	-0.0053
46	50	HDR UNBIAS	100	99.994	-0.0061
47	50	HDR UNBIAS	100	99.992	-0.0073
48	50	HDR UNBIAS	100	99.996	-0.0045
49	50	HDR UNBIAS	99.999	99.994	-0.0055
50	50	HDR UNBIAS	99.999	99.994	-0.0048
51	100	HDR BIAS	100	99.994	-0.006
52	100	HDR BIAS	100	99.994	-0.0071
53	100	HDR BIAS	100	99.995	-0.0052
54	100	HDR BIAS	100	99.994	-0.0056
55	100	HDR BIAS	100	99.992	-0.0076
56	100	HDR UNBIAS	100	99.995	-0.0057
57	100	HDR UNBIAS	99.998	99.998	-0.0005
58	100	HDR UNBIAS	100	99.993	-0.0072
59	100	HDR UNBIAS	99.999	99.993	-0.0061
60	100	HDR UNBIAS	99.998	99.995	-0.003
91	0	CORRELATION	100	99.999	-0.0011
92	0	CORRELATION	99.999	99.992	-0.0069
93	0	CORRELATION	99.999	99.992	-0.0068
94	0	CORRELATION	100	99.994	-0.006

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.999	99.999	100	0.00046547	99.992	99.994	99.999	0.0031268	-0.0069	-0.0052	-0.0011	0.0027628
3	99.998	99.999	100	0.0010863	99.993	99.994	99.999	0.0020606	-0.0083	-0.00481	0.0007	0.0027982
10	99.999	100	100	0.00097531	99.992	99.995	99.999	0.0021392	-0.0075	-0.00522	-0.0007	0.0021933
30	99.998	100	100	0.0012385	99.992	99.994	99.997	0.0012808	-0.0082	-0.0057	-0.0028	0.0017751
50	99.998	99.999	100	0.00083006	99.984	99.993	99.996	0.0032329	-0.0139	-0.00619	-0.0033	0.0029565
100	99.998	100	100	0.00097548	99.992	99.994	99.998	0.0016126	-0.0076	-0.0054	-0.0005	0.0021541

Device Test: 20.49 LEVEL|FREQ/RT/14/14/0/1000/5/100kHz//@FSW_EXT_RT_A





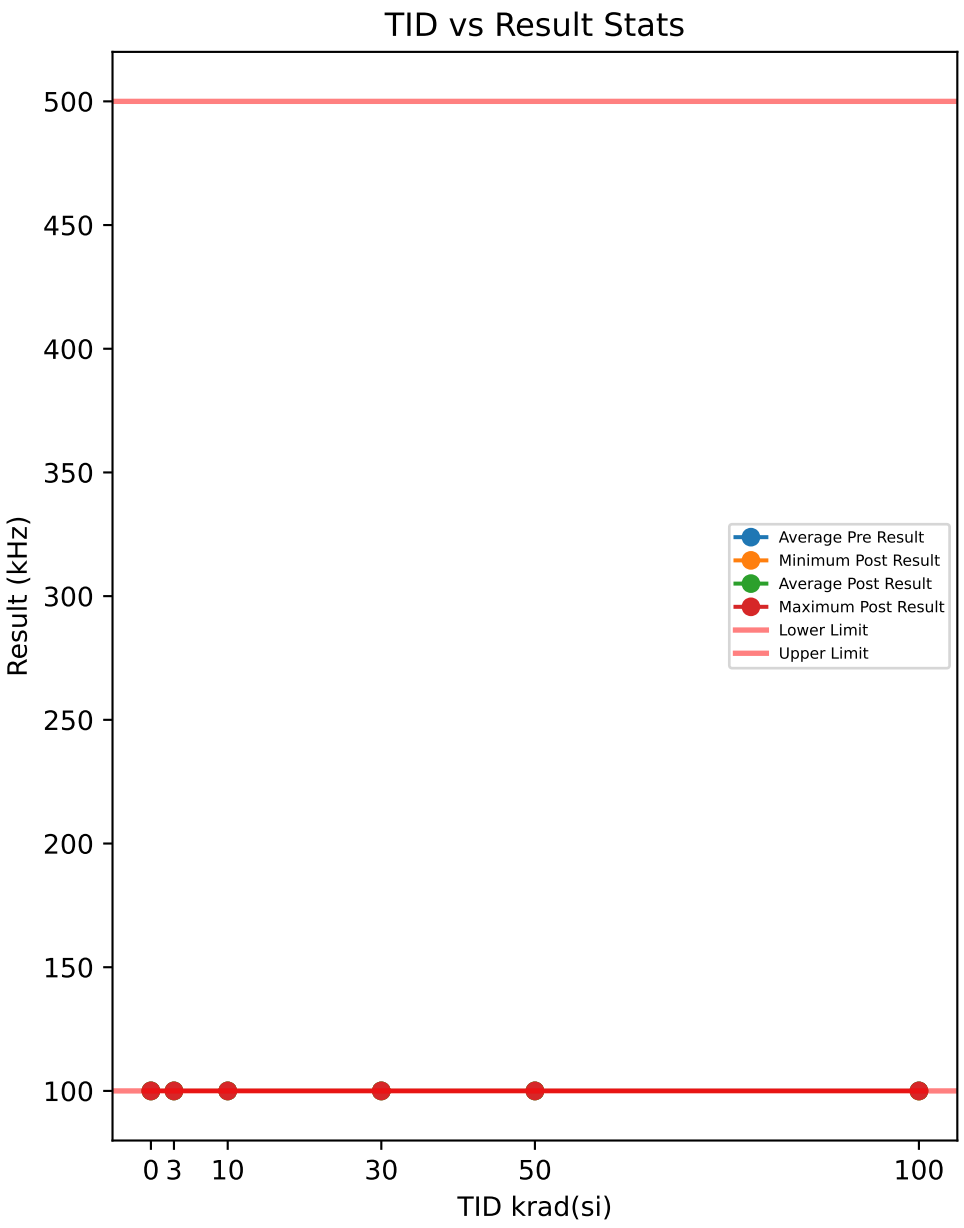
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

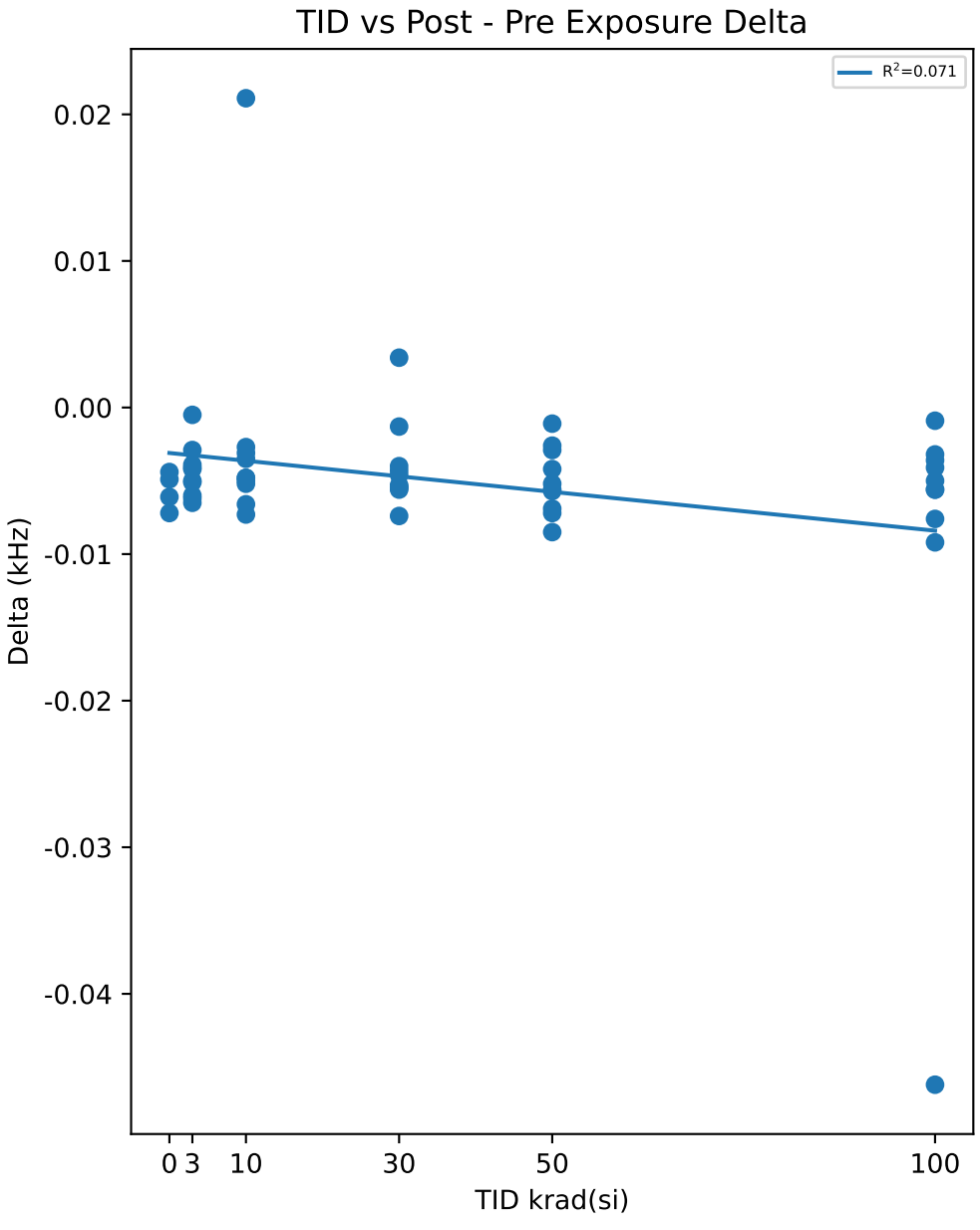
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	94.87	94.904	0.0335
2	3	HDR BIAS	93.964	93.772	-0.1926
3	3	HDR BIAS	95.335	95.367	0.0319
4	3	HDR BIAS	94.085	94.264	0.179
5	3	HDR BIAS	95.716	95.739	0.0231
6	3	HDR UNBIAS	93.815	93.683	-0.1326
7	3	HDR UNBIAS	92.428	92.349	-0.0794
8	3	HDR UNBIAS	94.036	94.017	-0.0186
9	3	HDR UNBIAS	94.131	94.349	0.2182
10	3	HDR UNBIAS	92.896	92.968	0.0722
11	10	HDR BIAS	93.412	93.595	0.1833
12	10	HDR BIAS	93.212	93.586	0.3743
13	10	HDR BIAS	92.064	92.081	0.0161
14	10	HDR BIAS	95.48	95.483	0.0032
15	10	HDR BIAS	91.968	91.961	-0.0067
16	10	HDR UNBIAS	94.323	94.244	-0.0795
17	10	HDR UNBIAS	89.992	90.141	0.149
18	10	HDR UNBIAS	93.622	93.219	-0.4033
19	10	HDR UNBIAS	91.432	91.681	0.249
20	10	HDR UNBIAS	94.453	94.369	-0.0846
31	30	HDR BIAS	92.498	93.02	0.5222
32	30	HDR BIAS	92.346	92.29	-0.0557
33	30	HDR BIAS	91.613	91.149	-0.4638
34	30	HDR BIAS	93.092	92.873	-0.219
35	30	HDR BIAS	93.505	93.517	0.0112
36	30	HDR UNBIAS	94.353	94.113	-0.24
37	30	HDR UNBIAS	93.887	94.617	0.7297
38	30	HDR UNBIAS	94.161	94.206	0.0447
39	30	HDR UNBIAS	93.326	92.991	-0.3353
40	30	HDR UNBIAS	95.151	95.806	0.6547
41	50	HDR BIAS	96.707	96.343	-0.3638
42	50	HDR BIAS	95.354	95.326	-0.0284
43	50	HDR BIAS	96.674	96.853	0.1798
44	50	HDR BIAS	92.759	93.186	0.4267
45	50	HDR BIAS	92.955	92.953	-0.0015
46	50	HDR UNBIAS	95.393	95.587	0.1938
47	50	HDR UNBIAS	93.681	94.281	0.6003
48	50	HDR UNBIAS	94.571	94.159	-0.4119
49	50	HDR UNBIAS	94.237	94.843	0.6054
50	50	HDR UNBIAS	95.647	95.862	0.2148
51	100	HDR BIAS	95.562	95.73	0.1681
52	100	HDR BIAS	93.911	93.945	0.0336
53	100	HDR BIAS	92.388	93.647	1.259
54	100	HDR BIAS	92.245	92.359	0.1137
55	100	HDR BIAS	93.362	93.291	-0.0709
56	100	HDR UNBIAS	94.676	93.378	-1.2973
57	100	HDR UNBIAS	90.595	91.552	0.9562
58	100	HDR UNBIAS	92.462	92.697	0.2357
59	100	HDR UNBIAS	95.001	95.318	0.3176
60	100	HDR UNBIAS	93.364	92.275	-1.0888
91	0	CORRELATION	93.964	93.959	-0.0048
92	0	CORRELATION	94.509	94.52	0.0104
93	0	CORRELATION	92.953	92.969	0.0155
94	0	CORRELATION	94.581	94.565	-0.0162

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.953	94.002	94.581	0.75138	92.969	94.003	94.565	0.74252	-0.0162	0.001225	0.0155	0.014467
3	92.428	94.128	95.716	1.0039	92.349	94.141	95.739	1.0352	-0.1926	0.01347	0.2182	0.12782
10	89.992	92.996	95.48	1.635	90.141	93.036	95.483	1.569	-0.4033	0.04008	0.3743	0.21558
30	91.613	93.393	95.151	1.0551	91.149	93.458	95.806	1.3035	-0.4638	0.06487	0.7297	0.42558
50	92.759	94.798	96.707	1.403	92.953	94.939	96.853	1.2964	-0.4119	0.14152	0.6054	0.35395
100	90.595	93.357	95.562	1.4987	91.552	93.419	95.73	1.3223	-1.2973	0.06269	1.259	0.78403

Device Test: 20.50 LEVEL|FREQ/SYNC/14/14/0/1000/5/100kHz//@FREQ_SYNC_EXT_503X





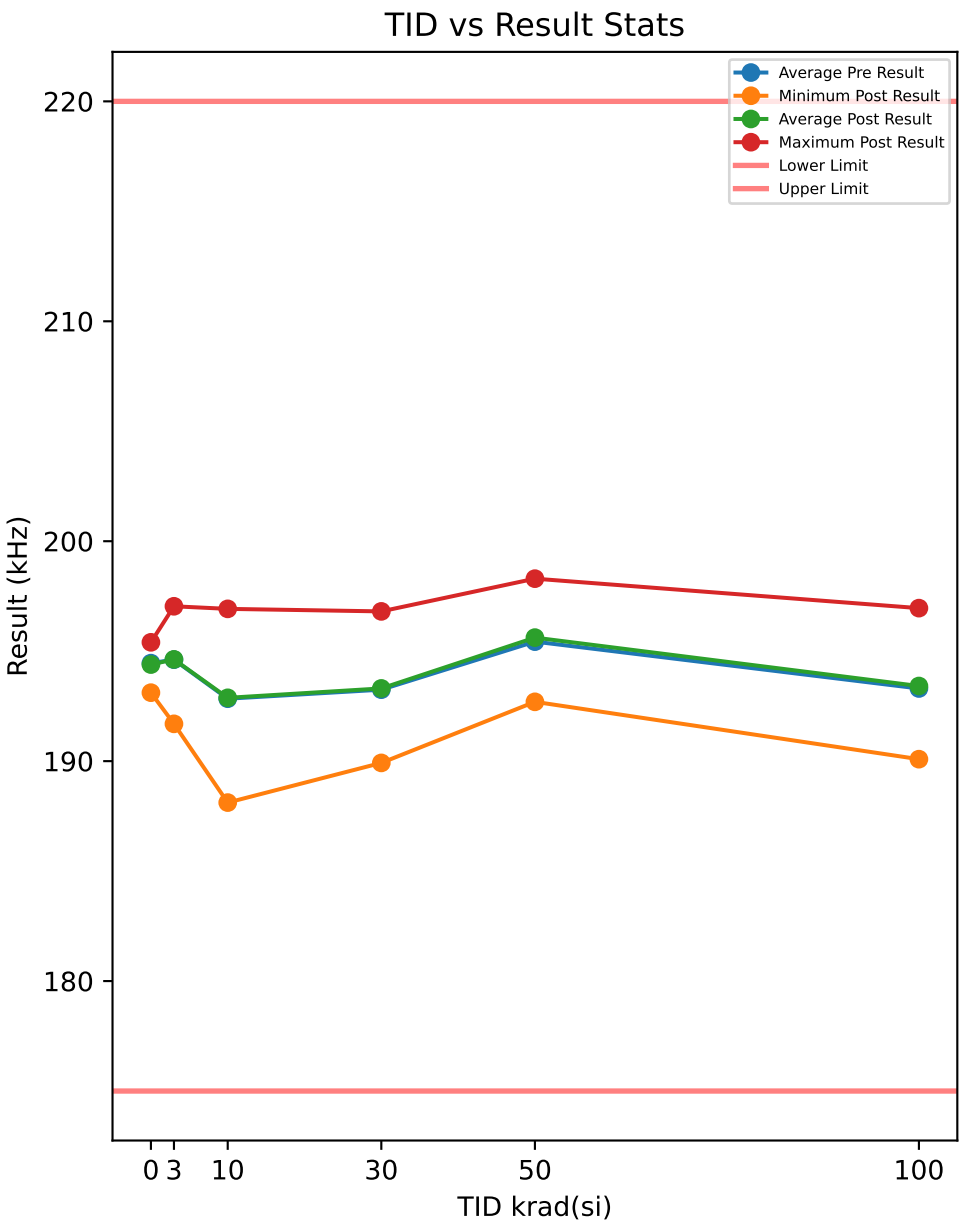
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

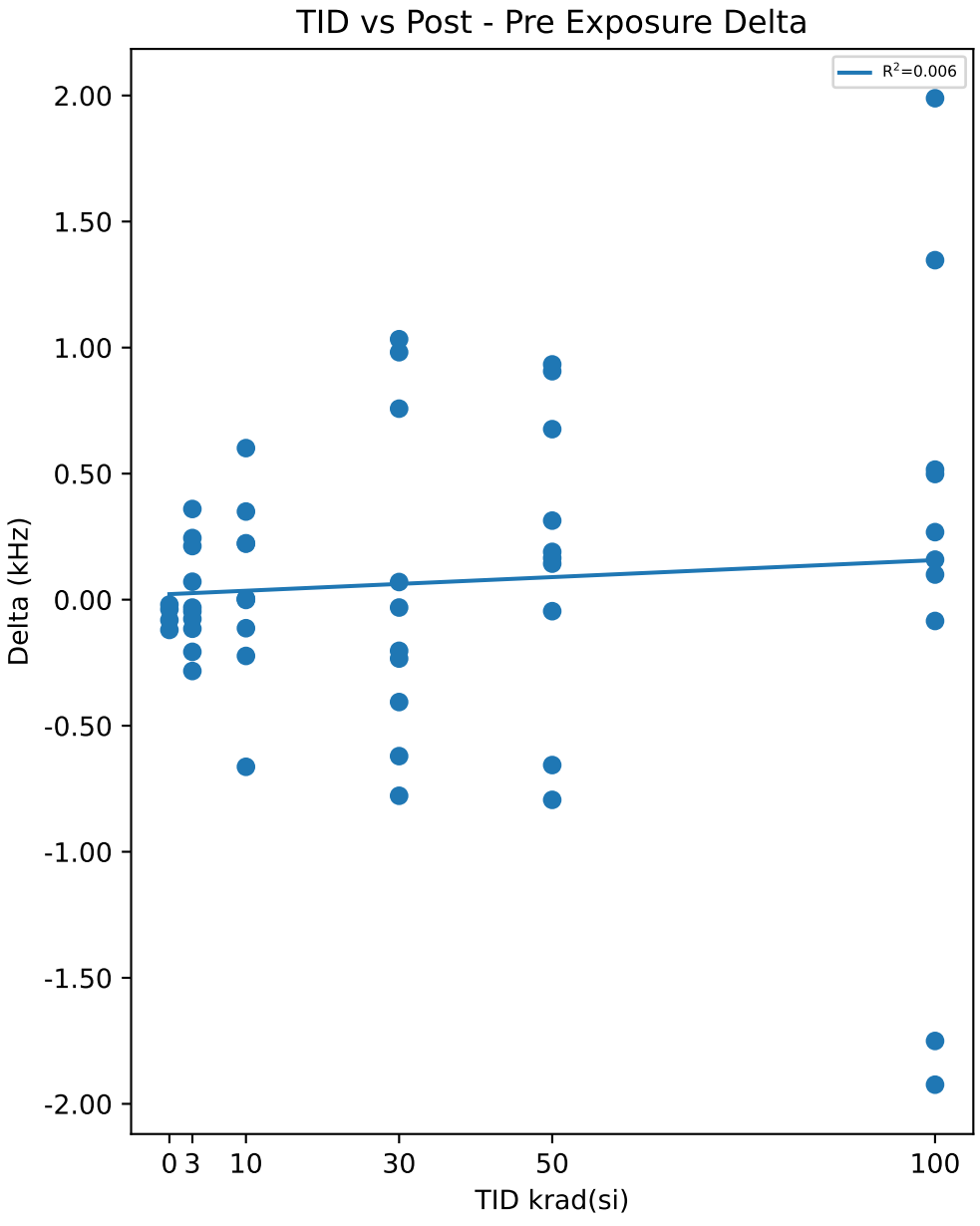
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	99.999	-0.0005
2	3	HDR BIAS	99.999	99.995	-0.0039
3	3	HDR BIAS	99.997	99.992	-0.005
4	3	HDR BIAS	100	99.994	-0.0062
5	3	HDR BIAS	99.999	99.996	-0.0029
6	3	HDR UNBIAS	99.998	99.993	-0.0051
7	3	HDR UNBIAS	100	99.994	-0.0065
8	3	HDR UNBIAS	100	99.996	-0.0041
9	3	HDR UNBIAS	100	99.996	-0.0042
10	3	HDR UNBIAS	100	99.994	-0.006
11	10	HDR BIAS	99.999	99.994	-0.005
12	10	HDR BIAS	99.973	99.994	0.0211
13	10	HDR BIAS	100	99.997	-0.0035
14	10	HDR BIAS	99.999	99.994	-0.0048
15	10	HDR BIAS	99.999	99.994	-0.0052
16	10	HDR UNBIAS	100	99.996	-0.0048
17	10	HDR UNBIAS	100	99.998	-0.0027
18	10	HDR UNBIAS	99.998	99.995	-0.0031
19	10	HDR UNBIAS	100	99.994	-0.0066
20	10	HDR UNBIAS	100	99.993	-0.0073
31	30	HDR BIAS	99.999	99.994	-0.0053
32	30	HDR BIAS	100	99.996	-0.0046
33	30	HDR BIAS	100	99.996	-0.004
34	30	HDR BIAS	99.999	99.994	-0.0043
35	30	HDR BIAS	100	99.994	-0.0074
36	30	HDR UNBIAS	99.991	99.994	0.0034
37	30	HDR UNBIAS	99.999	99.997	-0.0013
38	30	HDR UNBIAS	100	99.996	-0.0056
39	30	HDR UNBIAS	100	99.994	-0.0054
40	30	HDR UNBIAS	100	99.995	-0.0055
41	50	HDR BIAS	100	99.999	-0.0011
42	50	HDR BIAS	99.999	99.993	-0.0057
43	50	HDR BIAS	100	99.992	-0.0085
44	50	HDR BIAS	100	99.995	-0.0056
45	50	HDR BIAS	99.999	99.995	-0.0042
46	50	HDR UNBIAS	100	99.993	-0.0072
47	50	HDR UNBIAS	99.999	99.993	-0.0069
48	50	HDR UNBIAS	99.999	99.996	-0.0029
49	50	HDR UNBIAS	99.999	99.996	-0.0026
50	50	HDR UNBIAS	100	99.995	-0.0052
51	100	HDR BIAS	99.998	99.992	-0.0056
52	100	HDR BIAS	99.998	99.952	-0.0462
53	100	HDR BIAS	99.999	99.998	-0.0009
54	100	HDR BIAS	100	99.996	-0.0041
55	100	HDR BIAS	100	99.993	-0.0076
56	100	HDR UNBIAS	100	99.994	-0.0056
57	100	HDR UNBIAS	100	99.995	-0.005
58	100	HDR UNBIAS	99.998	99.995	-0.0036
59	100	HDR UNBIAS	100	99.992	-0.0092
60	100	HDR UNBIAS	99.999	99.995	-0.0032
91	0	CORRELATION	99.999	99.995	-0.0049
92	0	CORRELATION	100	99.993	-0.0072
93	0	CORRELATION	100	99.994	-0.0061
94	0	CORRELATION	100	99.995	-0.0044

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.999	100	100	0.00046458	99.993	99.994	99.995	0.00081394	-0.0072	-0.00565	-0.0044	0.0012557
3	99.997	99.999	100	0.0010209	99.992	99.995	99.999	0.0020282	-0.0065	-0.00444	-0.0005	0.0017915
10	99.973	99.997	100	0.008501	99.993	99.995	99.998	0.0016152	-0.0073	-0.00219	0.0211	0.0083091
30	99.991	99.999	100	0.0029816	99.994	99.995	99.997	0.0010386	-0.0074	-0.004	0.0034	0.003028
50	99.999	100	100	0.00078944	99.992	99.995	99.999	0.0020253	-0.0085	-0.00499	-0.0011	0.0023
100	99.998	99.999	100	0.0011679	99.952	99.99	99.998	0.013646	-0.0462	-0.0091	-0.0009	0.013238

Device Test: 20.51 LEVEL|FREQ/RT/12/12/0/1000/5/200kHz//@FSW_EXT_RT_B





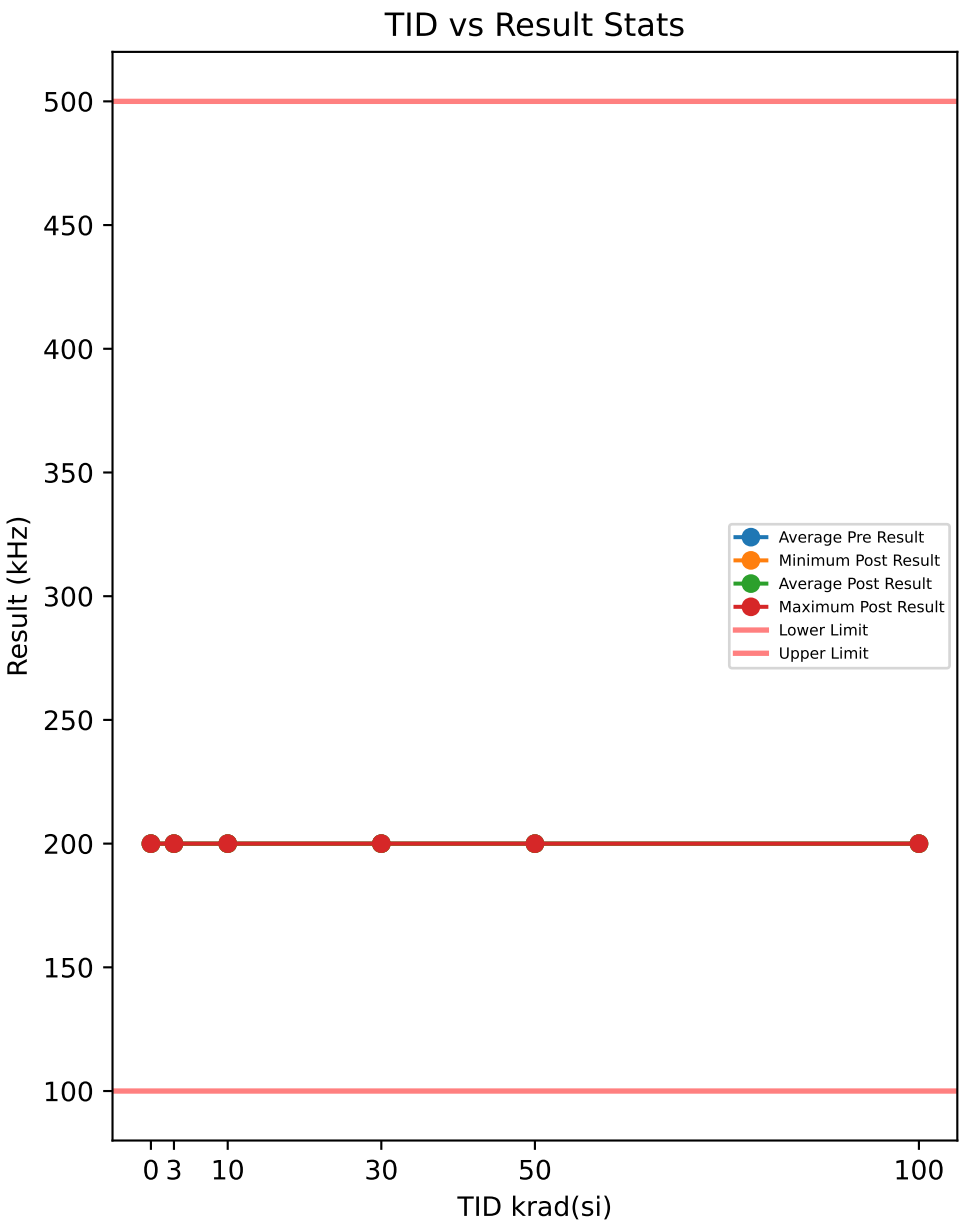
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

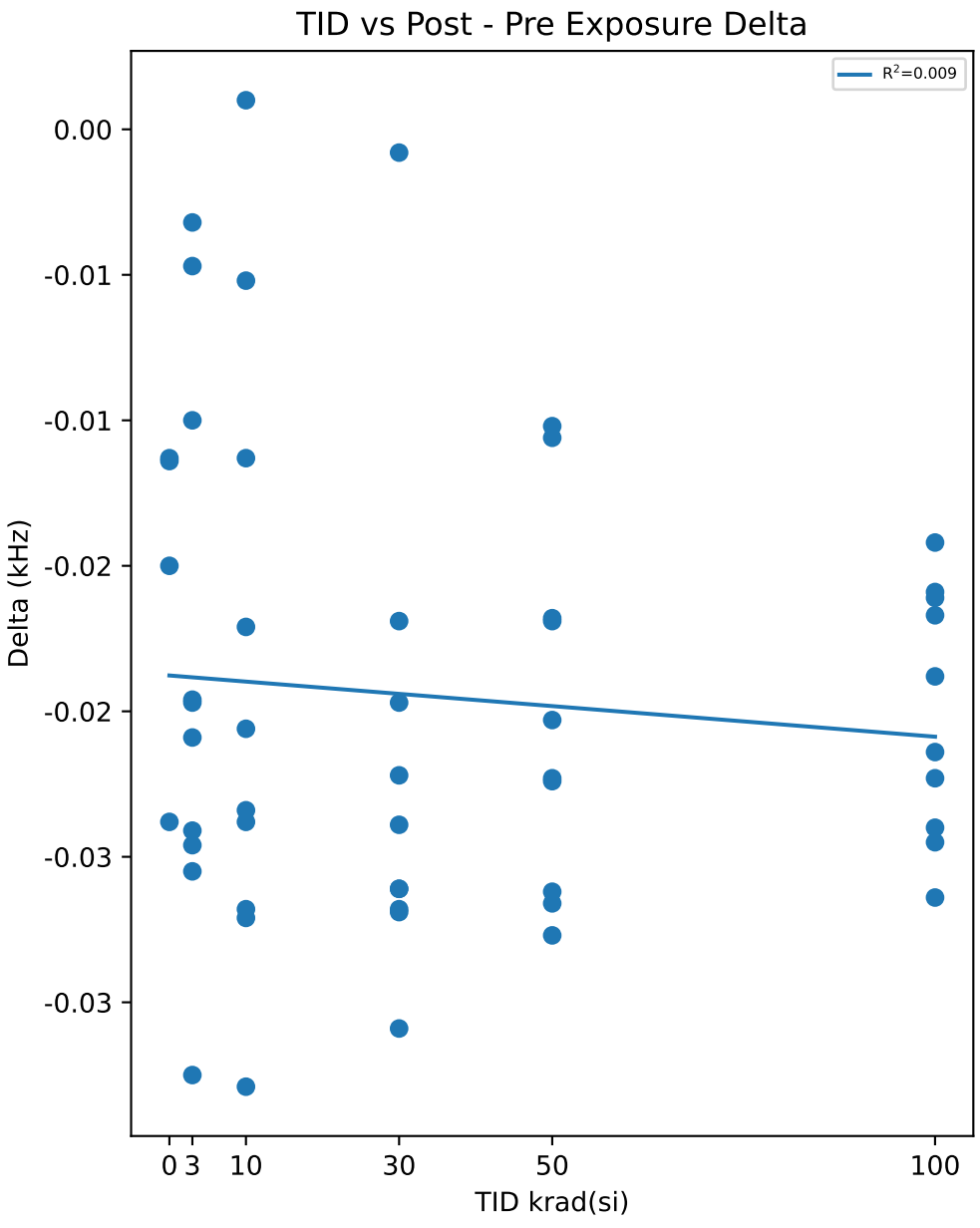
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	195.25	195.32	0.0712
2	3	HDR BIAS	194.5	194.22	-0.283
3	3	HDR BIAS	197.09	197.04	-0.0465
4	3	HDR BIAS	194.13	194.49	0.3597
5	3	HDR BIAS	196.93	196.9	-0.0314
6	3	HDR UNBIAS	194.5	194.29	-0.2069
7	3	HDR UNBIAS	191.81	191.7	-0.1153
8	3	HDR UNBIAS	194.5	194.42	-0.0763
9	3	HDR UNBIAS	194.62	194.87	0.2445
10	3	HDR UNBIAS	192.81	193.02	0.2126
11	10	HDR BIAS	193.77	194	0.2237
12	10	HDR BIAS	193.12	193.72	0.6012
13	10	HDR BIAS	191.5	191.5	0.0033
14	10	HDR BIAS	196.92	196.92	0.0032
15	10	HDR BIAS	191.01	190.9	-0.1132
16	10	HDR UNBIAS	194.62	194.62	-0.0011
17	10	HDR UNBIAS	187.89	188.12	0.2221
18	10	HDR UNBIAS	193.98	193.32	-0.663
19	10	HDR UNBIAS	190.4	190.75	0.3496
20	10	HDR UNBIAS	195.18	194.96	-0.2232
31	30	HDR BIAS	191.53	192.29	0.7577
32	30	HDR BIAS	191.9	191.87	-0.0312
33	30	HDR BIAS	190.7	189.92	-0.7779
34	30	HDR BIAS	192.69	192.46	-0.2336
35	30	HDR BIAS	193.15	192.95	-0.2029
36	30	HDR UNBIAS	195.22	194.82	-0.4061
37	30	HDR UNBIAS	193.49	194.53	1.0333
38	30	HDR UNBIAS	194.9	194.97	0.07
39	30	HDR UNBIAS	193.08	192.46	-0.6206
40	30	HDR UNBIAS	195.83	196.81	0.9816
41	50	HDR BIAS	198.33	197.54	-0.7941
42	50	HDR BIAS	196.3	196.48	0.1896
43	50	HDR BIAS	198.13	198.3	0.1652
44	50	HDR BIAS	192.03	192.7	0.6764
45	50	HDR BIAS	192.74	192.7	-0.0457
46	50	HDR UNBIAS	196.72	197.03	0.3136
47	50	HDR UNBIAS	193.41	194.34	0.9333
48	50	HDR UNBIAS	195.26	194.6	-0.6561
49	50	HDR UNBIAS	194.49	195.39	0.9062
50	50	HDR UNBIAS	196.93	197.08	0.143
51	100	HDR BIAS	196.69	196.96	0.2679
52	100	HDR BIAS	193.68	193.78	0.0996
53	100	HDR BIAS	191.9	193.89	1.9891
54	100	HDR BIAS	191.81	191.97	0.1589
55	100	HDR BIAS	193.26	193.17	-0.0845
56	100	HDR UNBIAS	194.99	193.06	-1.924
57	100	HDR UNBIAS	188.74	190.09	1.3467
58	100	HDR UNBIAS	192.45	192.95	0.4984
59	100	HDR UNBIAS	195.72	196.24	0.5159
60	100	HDR UNBIAS	193.8	192.05	-1.7505
91	0	CORRELATION	193.84	193.72	-0.12
92	0	CORRELATION	195.35	195.33	-0.0195
93	0	CORRELATION	193.15	193.11	-0.0381
94	0	CORRELATION	195.48	195.4	-0.0808

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.15	194.46	195.48	1.1462	193.11	194.39	195.4	1.1538	-0.12	-0.0646	-0.0195	0.044974
3	191.81	194.61	197.09	1.6079	191.7	194.63	197.04	1.5999	-0.283	0.01286	0.3597	0.20627
10	187.89	192.84	196.92	2.6488	188.12	192.88	196.92	2.5589	-0.663	0.04026	0.6012	0.34465
30	190.7	193.25	195.83	1.666	189.92	193.31	196.81	1.971	-0.7779	0.05703	1.0333	0.65231
50	192.03	195.43	198.33	2.2159	192.7	195.62	198.3	1.9856	-0.7941	0.18314	0.9333	0.58305
100	188.74	193.3	196.69	2.267	190.09	193.42	196.96	2.008	-1.924	0.11175	1.9891	1.2037

Device Test: 20.52 LEVEL|FREQ/SYNC/12/12/0/1000/5/200kHz//@FREQ_SYNC_EXT_503X





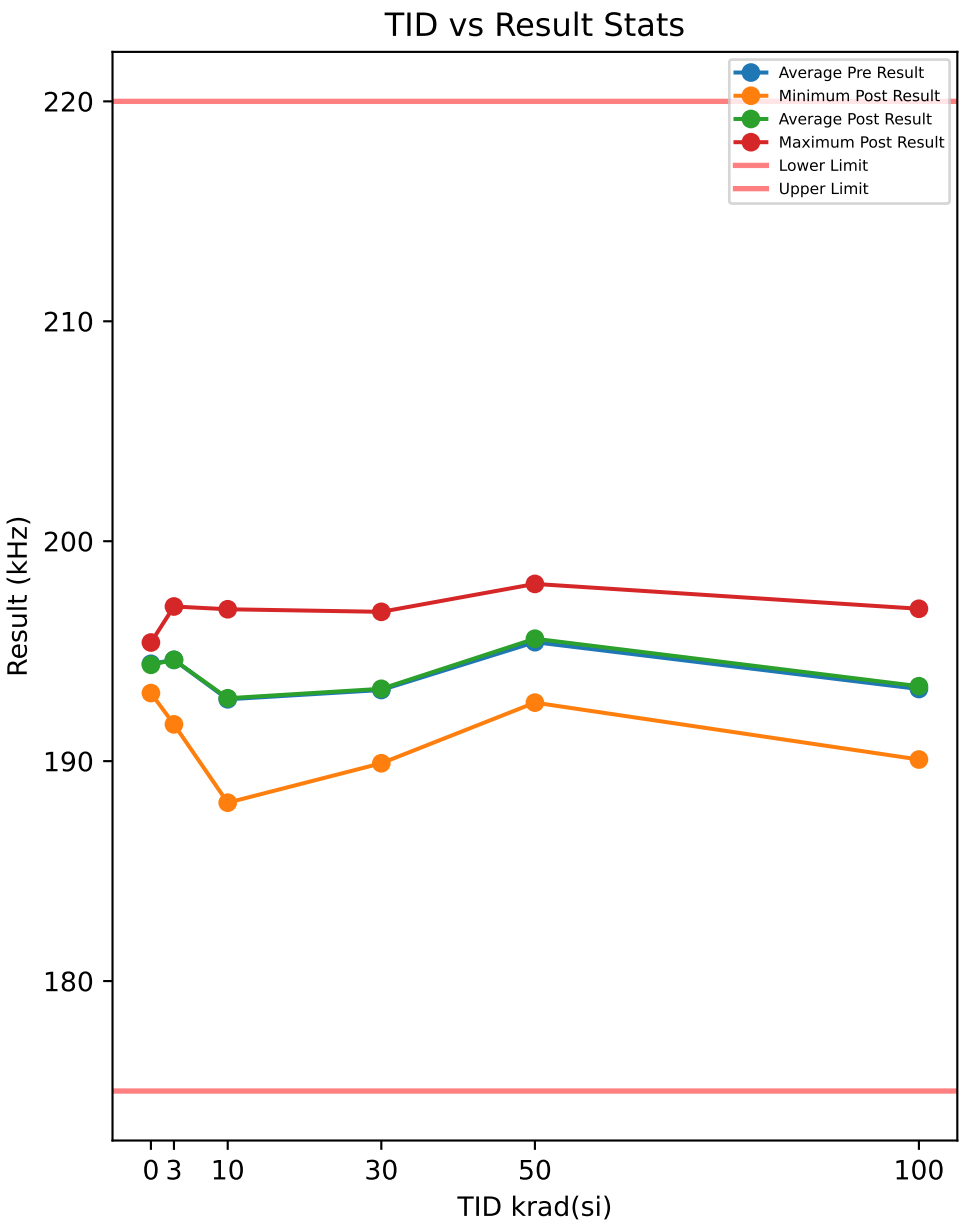
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

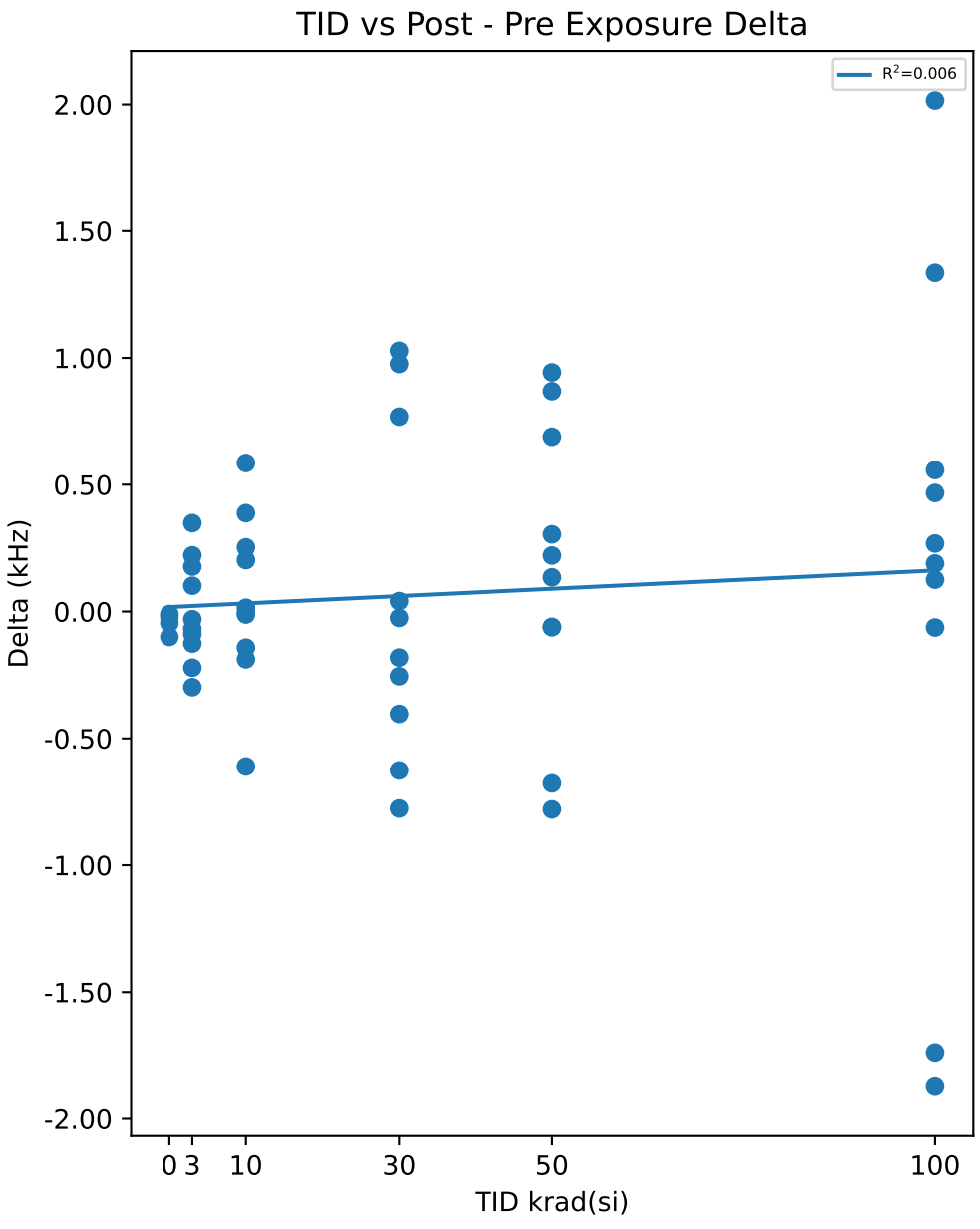
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	200	199.99	-0.01
2	3	HDR BIAS	200	199.97	-0.0325
3	3	HDR BIAS	199.99	199.97	-0.0241
4	3	HDR BIAS	200	199.98	-0.0209
5	3	HDR BIAS	200	199.99	-0.0047
6	3	HDR UNBIAS	200	199.98	-0.0196
7	3	HDR UNBIAS	200	199.97	-0.0255
8	3	HDR UNBIAS	200	199.98	-0.0246
9	3	HDR UNBIAS	200	200	-0.0032
10	3	HDR UNBIAS	199.99	199.97	-0.0197
11	10	HDR BIAS	200	199.98	-0.0271
12	10	HDR BIAS	199.99	199.98	-0.0113
13	10	HDR BIAS	200	200	0.001
14	10	HDR BIAS	200	199.97	-0.0234
15	10	HDR BIAS	199.99	199.97	-0.0206
16	10	HDR UNBIAS	200	199.98	-0.0238
17	10	HDR UNBIAS	200	199.99	-0.0052
18	10	HDR UNBIAS	199.99	199.97	-0.0171
19	10	HDR UNBIAS	200	199.97	-0.0329
20	10	HDR UNBIAS	200	199.98	-0.0268
31	30	HDR BIAS	200	199.97	-0.0309
32	30	HDR BIAS	200	199.98	-0.0261
33	30	HDR BIAS	200	200	-0.0008
34	30	HDR BIAS	200	199.97	-0.0222
35	30	HDR BIAS	200	199.97	-0.0269
36	30	HDR UNBIAS	200	199.98	-0.0268
37	30	HDR UNBIAS	200	199.98	-0.0169
38	30	HDR UNBIAS	200	199.98	-0.0239
39	30	HDR UNBIAS	199.99	199.97	-0.0197
40	30	HDR UNBIAS	200.01	199.98	-0.0261
41	50	HDR BIAS	200	199.98	-0.0169
42	50	HDR BIAS	199.99	199.98	-0.0168
43	50	HDR BIAS	199.99	199.97	-0.0224
44	50	HDR BIAS	200	199.98	-0.0277
45	50	HDR BIAS	200	199.99	-0.0102
46	50	HDR UNBIAS	200	199.98	-0.0203
47	50	HDR UNBIAS	200	199.98	-0.0262
48	50	HDR UNBIAS	200	199.98	-0.0223
49	50	HDR UNBIAS	200	199.99	-0.0106
50	50	HDR UNBIAS	200	199.97	-0.0266
51	100	HDR BIAS	199.99	199.98	-0.0159
52	100	HDR BIAS	199.99	199.98	-0.0161
53	100	HDR BIAS	200	199.98	-0.024
54	100	HDR BIAS	199.99	199.97	-0.0188
55	100	HDR BIAS	200	199.97	-0.0264
56	100	HDR UNBIAS	200	199.98	-0.0167
57	100	HDR UNBIAS	199.99	199.98	-0.0142
58	100	HDR UNBIAS	200	199.97	-0.0223
59	100	HDR UNBIAS	200	199.97	-0.0245
60	100	HDR UNBIAS	200	199.98	-0.0214
91	0	CORRELATION	200	199.99	-0.0114
92	0	CORRELATION	199.99	199.98	-0.0113
93	0	CORRELATION	199.99	199.97	-0.0238
94	0	CORRELATION	200	199.98	-0.015

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	199.99	199.99	200	0.0034627	199.97	199.98	199.99	0.0071928	-0.0238	-0.015375	-0.0113	0.0058745
3	199.99	200	200	0.0038381	199.97	199.98	200	0.0098352	-0.0325	-0.01848	-0.0032	0.009538
10	199.99	200	200	0.0048009	199.97	199.98	200	0.0088527	-0.0329	-0.01872	0.001	0.010631
30	199.99	200	200.01	0.0036837	199.97	199.98	200	0.0086287	-0.0309	-0.02203	-0.0008	0.0084608
50	199.99	200	200	0.0035572	199.97	199.98	199.99	0.0066873	-0.0277	-0.02	-0.0102	0.0062953
100	199.99	200	200	0.0039976	199.97	199.98	199.98	0.0030495	-0.0264	-0.02003	-0.0142	0.0042484

Device Test: 20.53 LEVEL|FREQ/RT/14/14/0/1000/5/200kHz//@FSW_EXT_RT_B





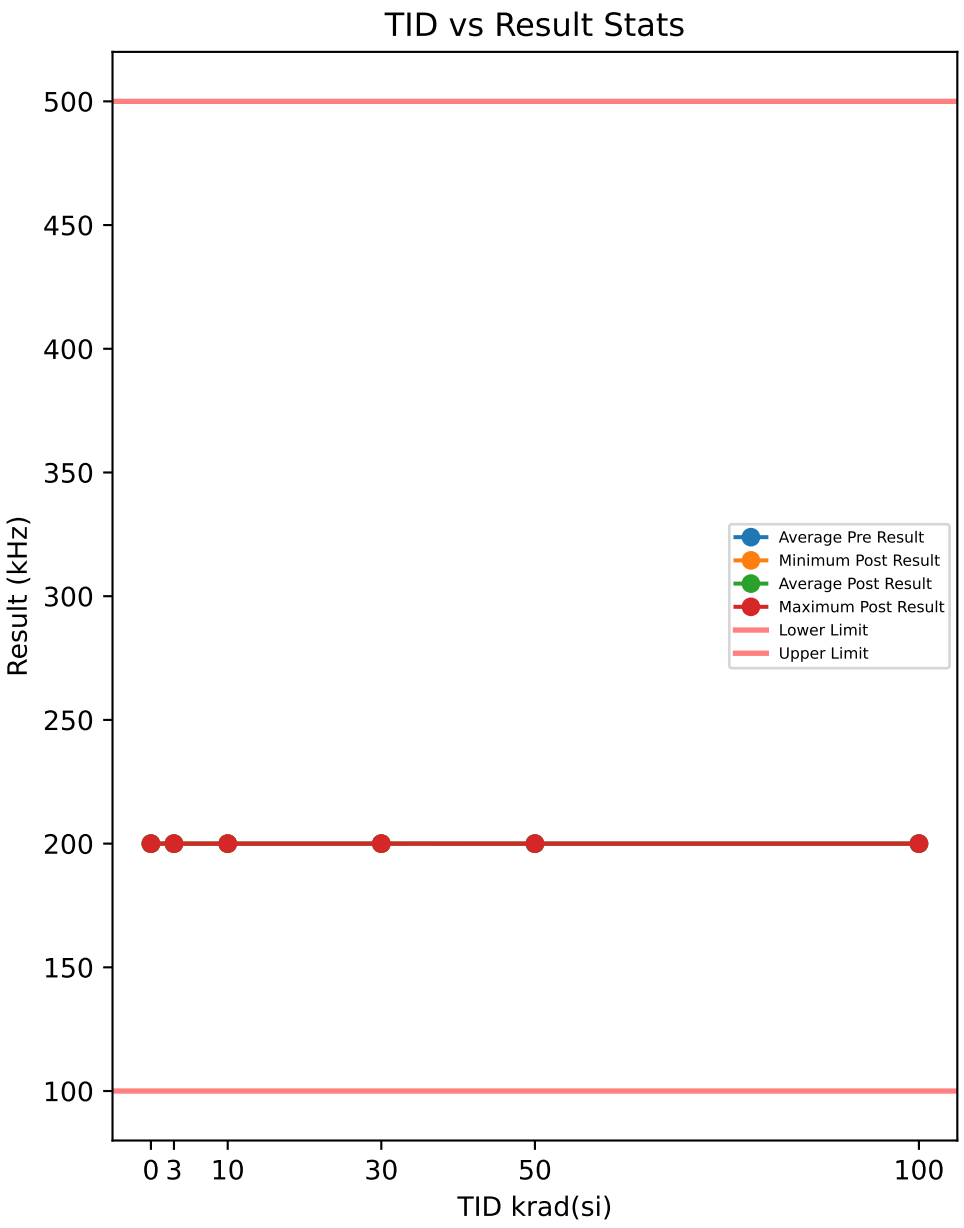
Test Results (Lower Limit = 175.0, Upper Limit = 220.0 (kHz))

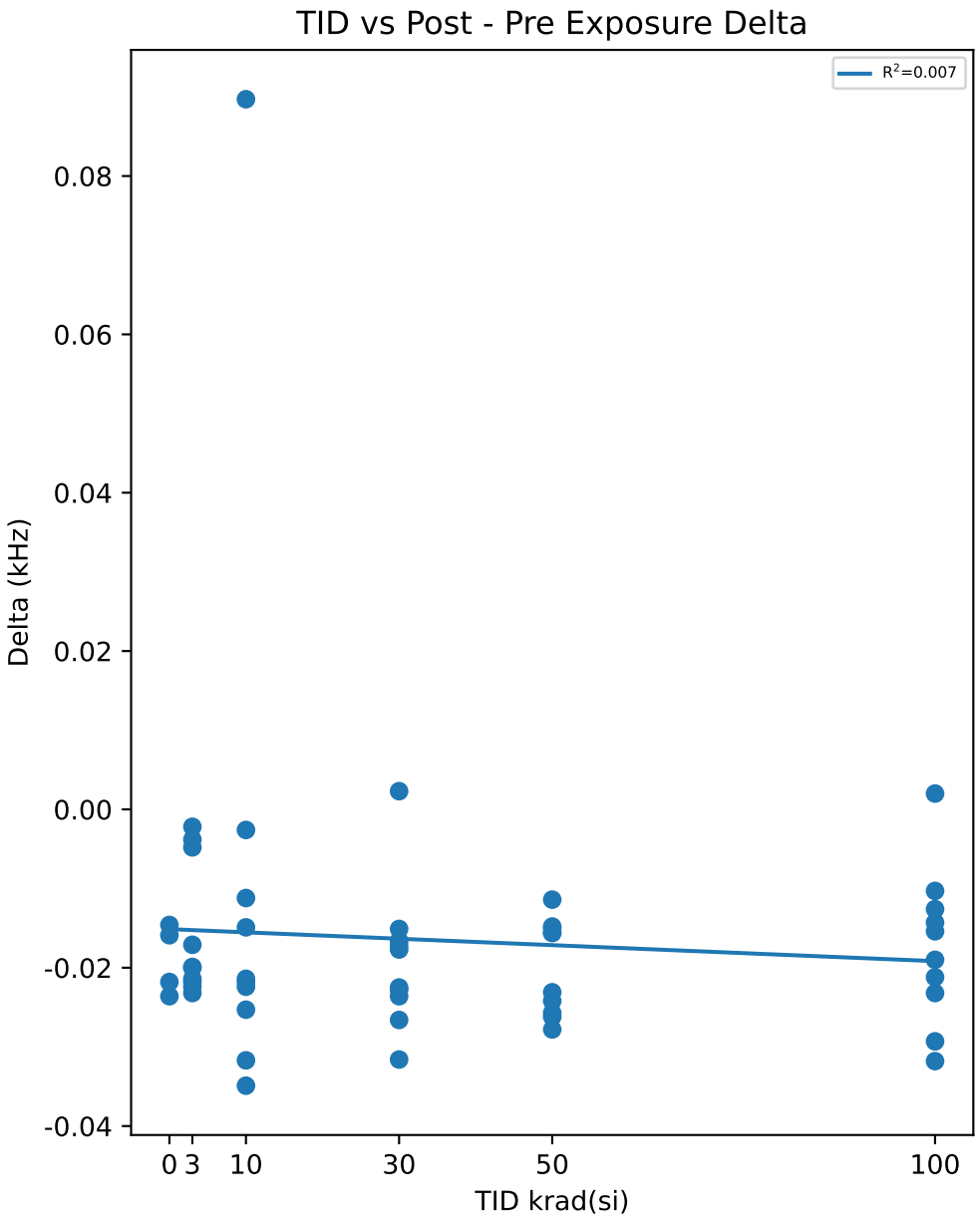
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	195.2	195.31	0.1017
2	3	HDR BIAS	194.51	194.21	-0.2982
3	3	HDR BIAS	197.06	197.03	-0.0304
4	3	HDR BIAS	194.15	194.5	0.3485
5	3	HDR BIAS	196.93	196.86	-0.0683
6	3	HDR UNBIAS	194.5	194.28	-0.2214
7	3	HDR UNBIAS	191.8	191.67	-0.1261
8	3	HDR UNBIAS	194.47	194.38	-0.0891
9	3	HDR UNBIAS	194.62	194.84	0.2216
10	3	HDR UNBIAS	192.79	192.97	0.1771
11	10	HDR BIAS	193.76	193.96	0.2028
12	10	HDR BIAS	193.1	193.69	0.5856
13	10	HDR BIAS	191.47	191.46	-0.0055
14	10	HDR BIAS	196.89	196.91	0.0148
15	10	HDR BIAS	191.01	190.87	-0.1425
16	10	HDR UNBIAS	194.59	194.58	-0.0118
17	10	HDR UNBIAS	187.86	188.11	0.253
18	10	HDR UNBIAS	193.94	193.32	-0.6108
19	10	HDR UNBIAS	190.35	190.74	0.3878
20	10	HDR UNBIAS	195.15	194.96	-0.1882
31	30	HDR BIAS	191.5	192.27	0.7684
32	30	HDR BIAS	191.91	191.88	-0.0252
33	30	HDR BIAS	190.68	189.9	-0.7765
34	30	HDR BIAS	192.68	192.42	-0.2549
35	30	HDR BIAS	193.12	192.94	-0.1814
36	30	HDR UNBIAS	195.21	194.8	-0.4034
37	30	HDR UNBIAS	193.48	194.51	1.0281
38	30	HDR UNBIAS	194.92	194.96	0.0411
39	30	HDR UNBIAS	193.05	192.42	-0.6264
40	30	HDR UNBIAS	195.81	196.79	0.9761
41	50	HDR BIAS	198.33	197.55	-0.78
42	50	HDR BIAS	196.27	196.49	0.2208
43	50	HDR BIAS	198.12	198.06	-0.0618
44	50	HDR BIAS	191.99	192.68	0.6892
45	50	HDR BIAS	192.72	192.66	-0.0606
46	50	HDR UNBIAS	196.69	197	0.3043
47	50	HDR UNBIAS	193.36	194.3	0.9429
48	50	HDR UNBIAS	195.22	194.54	-0.6774
49	50	HDR UNBIAS	194.47	195.34	0.8688
50	50	HDR UNBIAS	196.92	197.06	0.1348
51	100	HDR BIAS	196.66	196.93	0.2682
52	100	HDR BIAS	193.65	193.77	0.1255
53	100	HDR BIAS	191.86	193.88	2.0157
54	100	HDR BIAS	191.77	191.96	0.1894
55	100	HDR BIAS	193.24	193.17	-0.063
56	100	HDR UNBIAS	194.96	193.09	-1.8732
57	100	HDR UNBIAS	188.74	190.07	1.3353
58	100	HDR UNBIAS	192.44	192.91	0.4674
59	100	HDR UNBIAS	195.7	196.25	0.5577
60	100	HDR UNBIAS	193.77	192.04	-1.738
91	0	CORRELATION	193.81	193.71	-0.1002
92	0	CORRELATION	195.33	195.32	-0.0099
93	0	CORRELATION	193.12	193.1	-0.0227
94	0	CORRELATION	195.44	195.39	-0.0456

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.12	194.43	195.44	1.1441	193.1	194.38	195.39	1.1551	-0.1002	-0.0446	-0.0099	0.0399
3	191.8	194.6	197.06	1.6055	191.67	194.61	197.03	1.6027	-0.2982	0.00154	0.3485	0.20538
10	187.86	192.81	196.89	2.6494	188.11	192.86	196.91	2.5569	-0.6108	0.04852	0.5856	0.33402
30	190.68	193.23	195.81	1.6701	189.9	193.29	196.79	1.9704	-0.7765	0.05459	1.0281	0.65223
50	191.99	195.41	198.33	2.2257	192.66	195.57	198.06	1.9648	-0.78	0.1581	0.9429	0.5872
100	188.74	193.28	196.66	2.2629	190.07	193.41	196.93	2.0096	-1.8732	0.1285	2.0157	1.1957

Device Test: 20.54 LEVEL|FREQ/SYNC/14/14/0/1000/5/200kHz//@FREQ_SYNC_EXT_503X





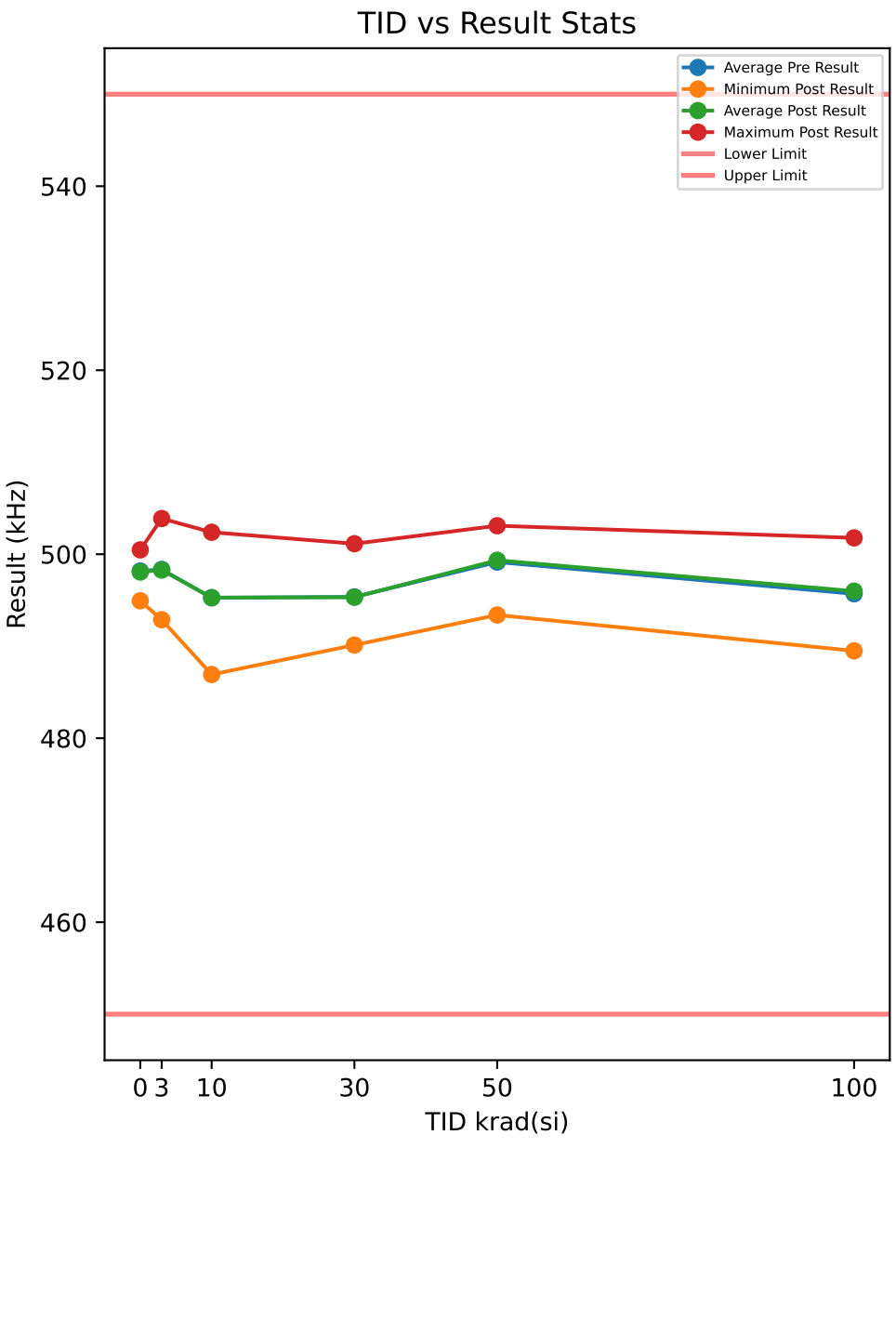
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

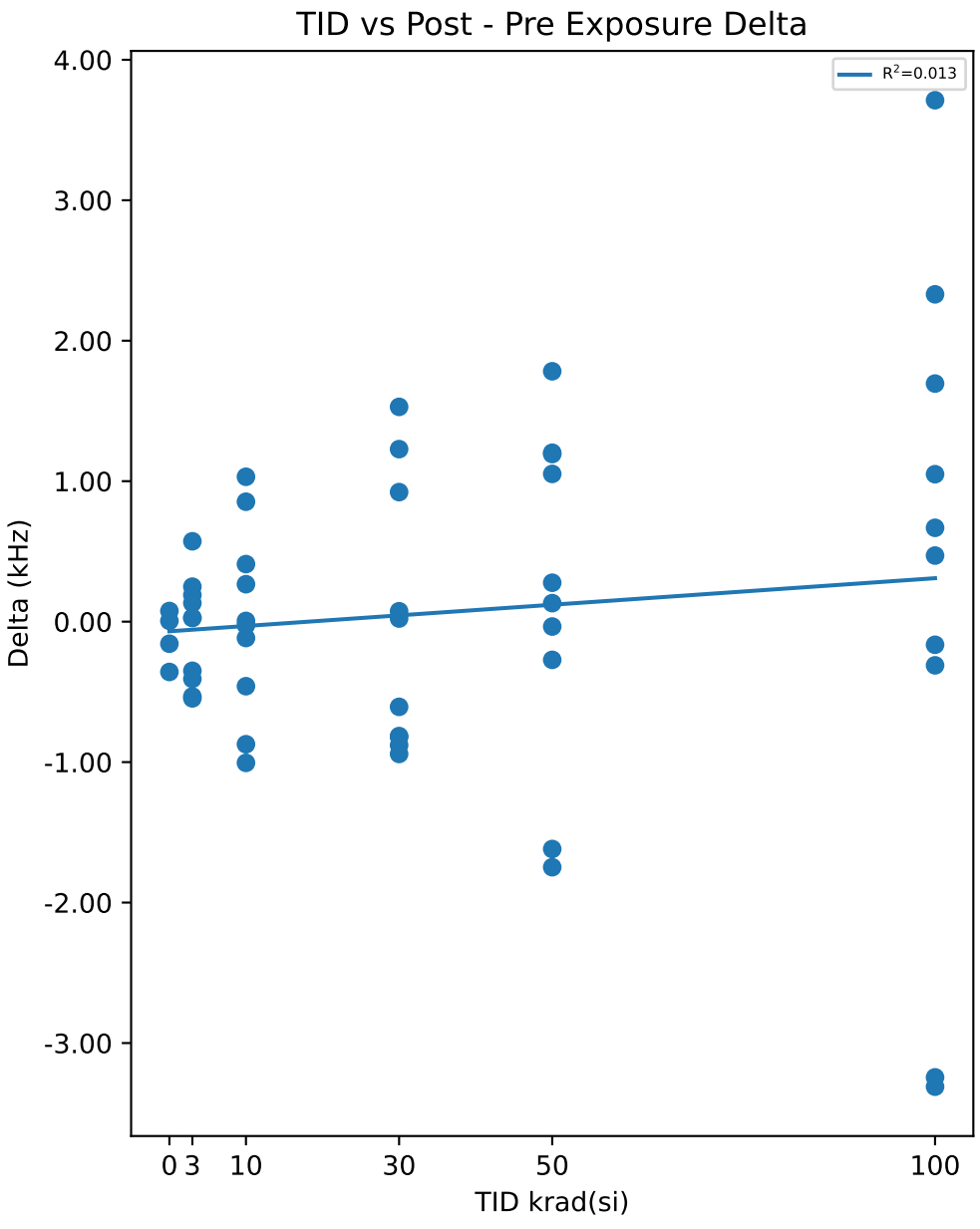
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	200	199.99	-0.0048
2	3	HDR BIAS	200	199.98	-0.02
3	3	HDR BIAS	199.99	199.98	-0.0171
4	3	HDR BIAS	200	199.98	-0.0224
5	3	HDR BIAS	200	200	-0.0038
6	3	HDR UNBIAS	199.99	199.97	-0.0199
7	3	HDR UNBIAS	200	199.97	-0.0232
8	3	HDR UNBIAS	200	199.98	-0.0214
9	3	HDR UNBIAS	199.99	199.99	-0.0022
10	3	HDR UNBIAS	199.99	199.97	-0.0218
11	10	HDR BIAS	200	199.97	-0.0349
12	10	HDR BIAS	199.99	199.98	-0.0112
13	10	HDR BIAS	200	199.99	-0.0026
14	10	HDR BIAS	200	199.97	-0.0317
15	10	HDR BIAS	200	199.98	-0.0218
16	10	HDR UNBIAS	200	199.98	-0.0214
17	10	HDR UNBIAS	200.01	199.98	-0.0224
18	10	HDR UNBIAS	199.89	199.98	0.0897
19	10	HDR UNBIAS	199.99	199.97	-0.0253
20	10	HDR UNBIAS	200	199.98	-0.0149
31	30	HDR BIAS	199.99	199.97	-0.0228
32	30	HDR BIAS	200	199.98	-0.0151
33	30	HDR BIAS	200	200	0.0023
34	30	HDR BIAS	200	199.98	-0.0166
35	30	HDR BIAS	200	199.97	-0.0316
36	30	HDR UNBIAS	200	199.98	-0.0236
37	30	HDR UNBIAS	200	199.98	-0.0172
38	30	HDR UNBIAS	200	199.98	-0.0225
39	30	HDR UNBIAS	200	199.97	-0.0266
40	30	HDR UNBIAS	200	199.98	-0.0177
41	50	HDR BIAS	200	199.99	-0.0114
42	50	HDR BIAS	200	199.98	-0.0262
43	50	HDR BIAS	200	199.98	-0.0231
44	50	HDR BIAS	200	199.98	-0.0156
45	50	HDR BIAS	200	199.99	-0.0148
46	50	HDR UNBIAS	199.99	199.98	-0.015
47	50	HDR UNBIAS	200	199.98	-0.0242
48	50	HDR UNBIAS	199.99	199.98	-0.0156
49	50	HDR UNBIAS	200	199.98	-0.0257
50	50	HDR UNBIAS	200	199.97	-0.0278
51	100	HDR BIAS	199.99	199.97	-0.0212
52	100	HDR BIAS	200	199.98	-0.019
53	100	HDR BIAS	200	199.99	-0.0103
54	100	HDR BIAS	199.99	199.98	-0.0154
55	100	HDR BIAS	200	199.97	-0.0293
56	100	HDR UNBIAS	200	199.98	-0.0143
57	100	HDR UNBIAS	199.99	200	0.002
58	100	HDR UNBIAS	200	199.97	-0.0232
59	100	HDR UNBIAS	200	199.97	-0.0318
60	100	HDR UNBIAS	199.99	199.98	-0.0126
91	0	CORRELATION	200	199.98	-0.0159
92	0	CORRELATION	200	199.97	-0.0236
93	0	CORRELATION	200	199.98	-0.0218
94	0	CORRELATION	200	199.98	-0.0146

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200	200	200	0.0010595	199.97	199.98	199.98	0.0048497	-0.0236	-0.018975	-0.0146	0.0043957
3	199.99	200	200	0.004438	199.97	199.98	200	0.0089916	-0.0232	-0.01566	-0.0022	0.0085087
10	199.89	199.99	200.01	0.035165	199.97	199.98	199.99	0.0076096	-0.0349	-0.00965	0.0897	0.036159
30	199.99	200	200	0.0037391	199.97	199.98	200	0.0095036	-0.0316	-0.01914	0.0023	0.0090907
50	199.99	200	200	0.0040166	199.97	199.98	199.99	0.0060689	-0.0278	-0.01994	-0.0114	0.0059973
100	199.99	200	200	0.0039557	199.97	199.98	200	0.0088573	-0.0318	-0.01751	0.002	0.0097918

Device Test: 20.55 LEVEL|FREQ/RT/12/12/0/1000/5/500kHz//@FSW_EXT_RT_C





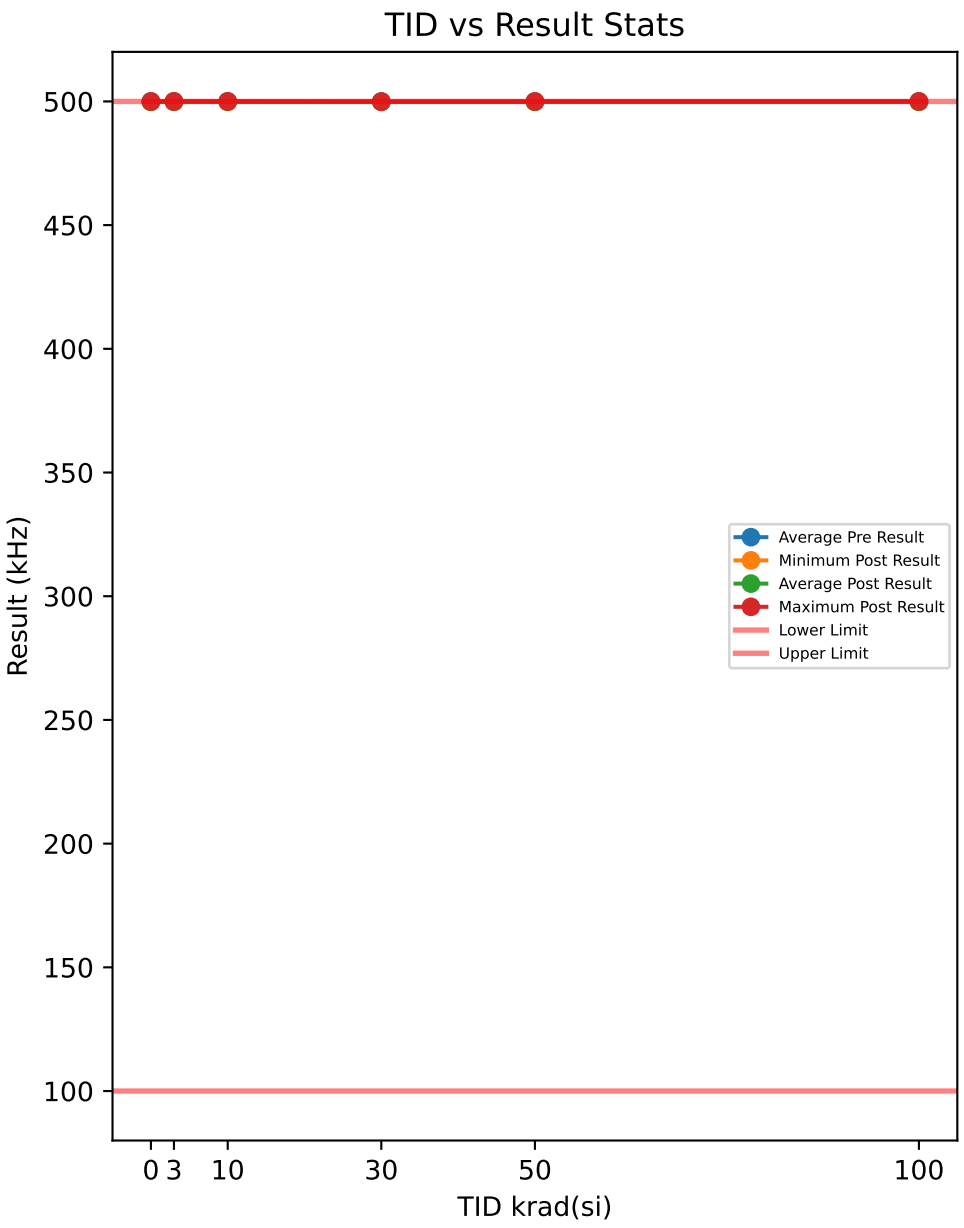
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

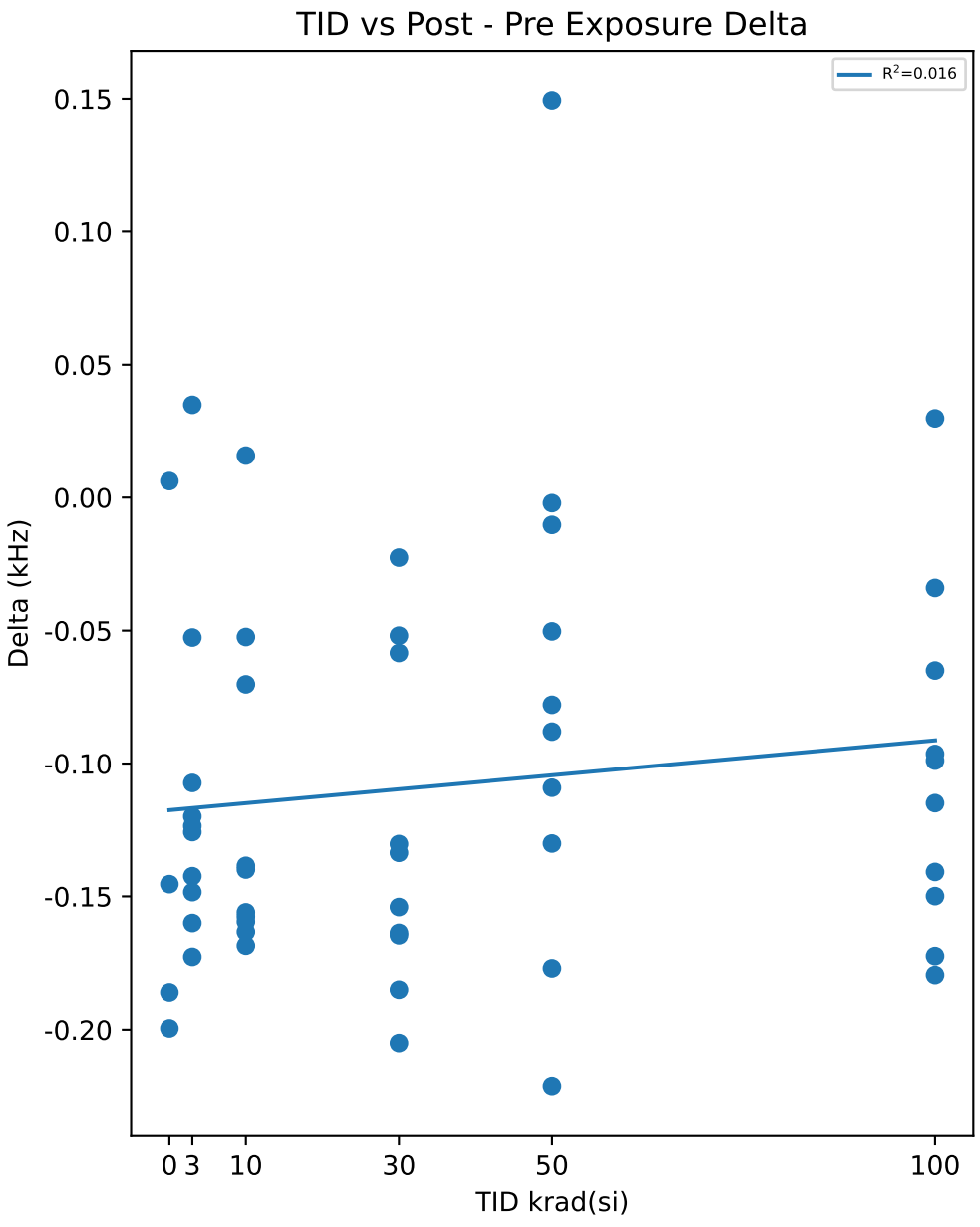
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	498.08	498.27	0.1897
2	3	HDR BIAS	498.45	497.92	-0.5323
3	3	HDR BIAS	503.63	503.88	0.249
4	3	HDR BIAS	496.79	496.92	0.1321
5	3	HDR BIAS	501.94	501.96	0.0274
6	3	HDR UNBIAS	498.64	498.24	-0.4074
7	3	HDR UNBIAS	493.23	492.88	-0.3499
8	3	HDR UNBIAS	498.42	497.87	-0.5462
9	3	HDR UNBIAS	498.42	499	0.5721
10	3	HDR UNBIAS	495.84	495.87	0.0265
11	10	HDR BIAS	497.49	497.75	0.2666
12	10	HDR BIAS	495.6	496.63	1.0313
13	10	HDR BIAS	494.11	494	-0.1165
14	10	HDR BIAS	502.38	502.39	0.0054
15	10	HDR BIAS	490.91	490.88	-0.025
16	10	HDR UNBIAS	497.84	497.38	-0.4596
17	10	HDR UNBIAS	486.07	486.92	0.8538
18	10	HDR UNBIAS	497.22	496.22	-1.0054
19	10	HDR UNBIAS	491.72	492.13	0.4097
20	10	HDR UNBIAS	499.36	498.49	-0.8727
31	30	HDR BIAS	491.74	492.97	1.2282
32	30	HDR BIAS	493.73	493.75	0.0222
33	30	HDR BIAS	491	490.12	-0.8795
34	30	HDR BIAS	494.59	493.77	-0.8146
35	30	HDR BIAS	494.27	493.67	-0.6065
36	30	HDR UNBIAS	499.96	499.14	-0.8205
37	30	HDR UNBIAS	494.1	495.63	1.5291
38	30	HDR UNBIAS	499.63	499.7	0.0741
39	30	HDR UNBIAS	494.34	493.4	-0.9419
40	30	HDR UNBIAS	500.22	501.14	0.9222
41	50	HDR BIAS	503.77	502.02	-1.7482
42	50	HDR BIAS	500.1	501.3	1.1932
43	50	HDR BIAS	503.37	503.1	-0.2719
44	50	HDR BIAS	492.34	493.39	1.0517
45	50	HDR BIAS	494.78	495.06	0.2771
46	50	HDR UNBIAS	502.75	502.88	0.1319
47	50	HDR UNBIAS	494.74	496.53	1.7824
48	50	HDR UNBIAS	499.56	497.94	-1.6186
49	50	HDR UNBIAS	498.14	499.34	1.2025
50	50	HDR UNBIAS	501.9	501.86	-0.0347
51	100	HDR BIAS	500.72	501.77	1.0497
52	100	HDR BIAS	495.3	494.99	-0.3111
53	100	HDR BIAS	493.56	497.27	3.712
54	100	HDR BIAS	494.17	494.64	0.4705
55	100	HDR BIAS	495.92	495.76	-0.1647
56	100	HDR UNBIAS	497.45	494.2	-3.2443
57	100	HDR UNBIAS	487.16	489.5	2.3302
58	100	HDR UNBIAS	495.75	496.42	0.668
59	100	HDR UNBIAS	499.49	501.18	1.6949
60	100	HDR UNBIAS	497.46	494.15	-3.3107
91	0	CORRELATION	494.93	494.94	0.0055
92	0	CORRELATION	499.77	499.85	0.0759
93	0	CORRELATION	497.16	497	-0.1573
94	0	CORRELATION	500.83	500.47	-0.3581

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.93	498.17	500.83	2.6549	494.94	498.07	500.47	2.5743	-0.3581	-0.1085	0.0759	0.19294
3	493.23	498.34	503.63	2.9035	492.88	498.28	503.88	3.0288	-0.5462	-0.0639	0.5721	0.37616
10	486.07	495.27	502.38	4.7187	486.92	495.28	502.39	4.407	-1.0054	0.00876	1.0313	0.66905
30	491	495.36	500.22	3.3676	490.12	495.33	501.14	3.5203	-0.9419	-0.02872	1.5291	0.94635
50	492.34	499.15	503.77	4.0356	493.39	499.34	503.1	3.4576	-1.7482	0.19654	1.7824	1.1838
100	487.16	495.7	500.72	3.7379	489.5	495.99	501.77	3.5577	-3.3107	0.28945	3.712	2.2267

Device Test: 20.56 LEVEL|FREQ/SYNC/12/12/0/1000/5/500kHz//@FREQ_SYNC_EXT_503X





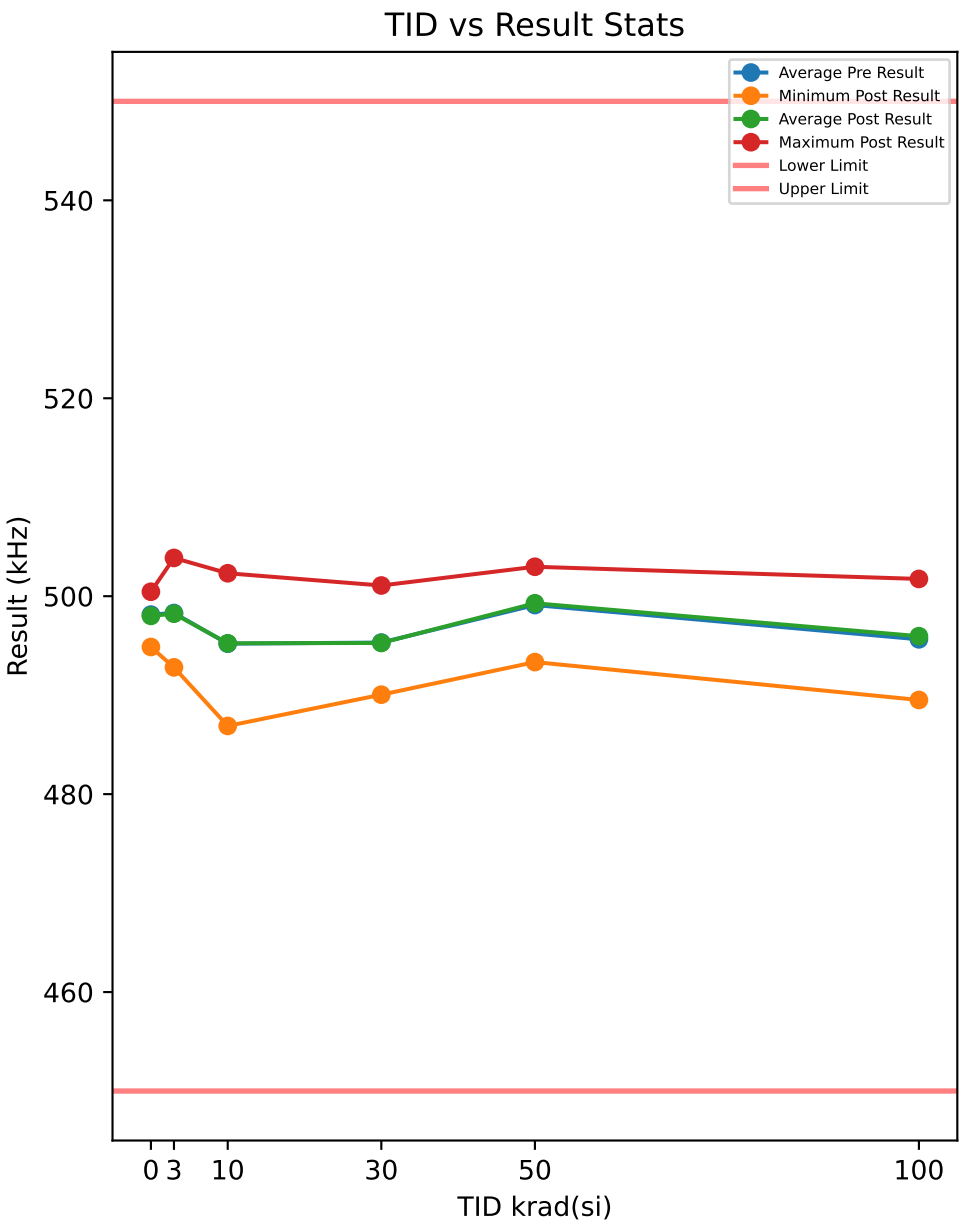
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

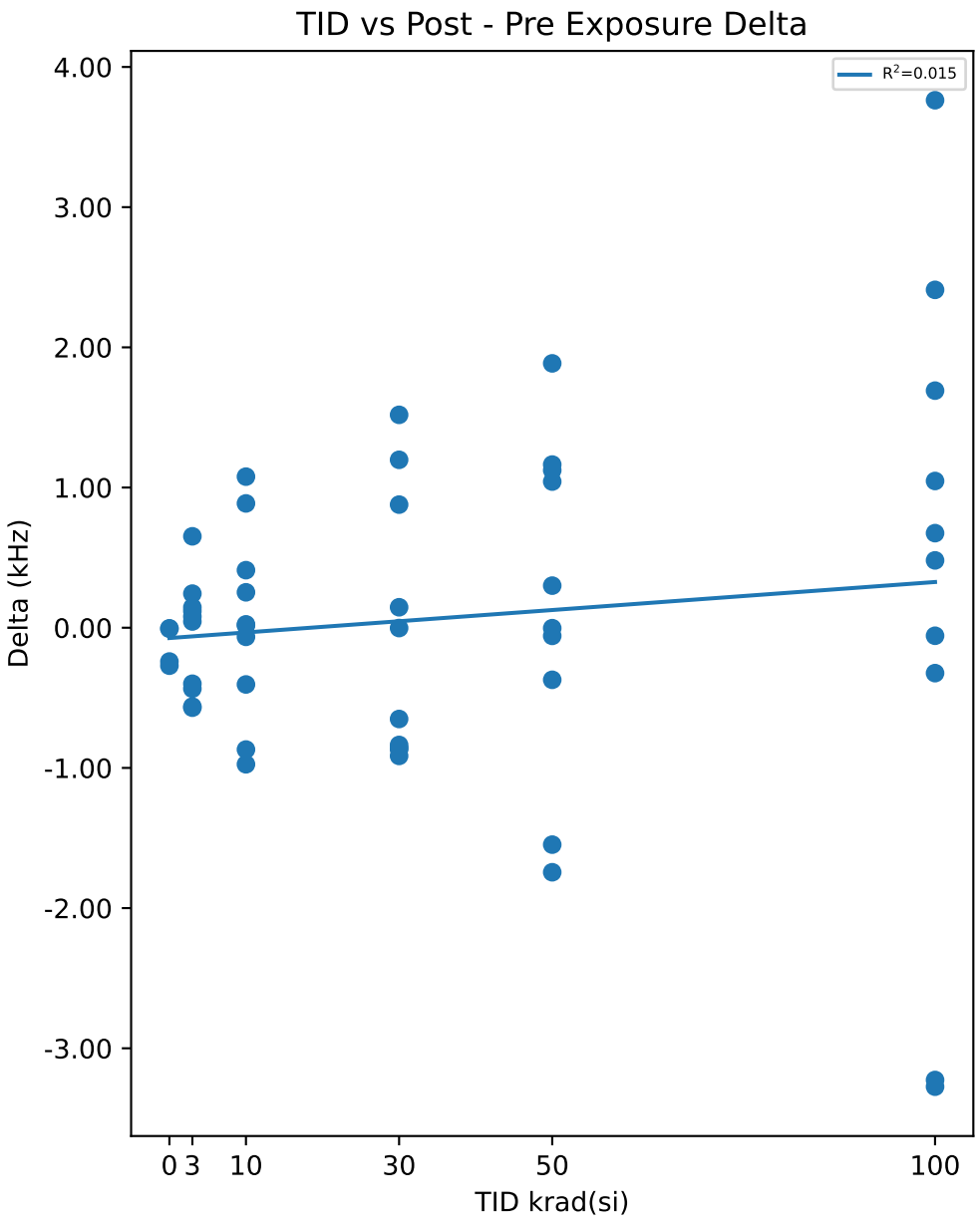
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	499.99	500.02	0.0349
2	3	HDR BIAS	500	499.85	-0.1484
3	3	HDR BIAS	499.96	499.8	-0.16
4	3	HDR BIAS	500	499.88	-0.1199
5	3	HDR BIAS	500.01	499.96	-0.0526
6	3	HDR UNBIAS	499.99	499.85	-0.1424
7	3	HDR UNBIAS	499.98	499.86	-0.1235
8	3	HDR UNBIAS	499.99	499.88	-0.1073
9	3	HDR UNBIAS	499.99	499.87	-0.1258
10	3	HDR UNBIAS	500	499.83	-0.1727
11	10	HDR BIAS	499.98	499.84	-0.1385
12	10	HDR BIAS	499.95	499.88	-0.0702
13	10	HDR BIAS	500.01	499.96	-0.0524
14	10	HDR BIAS	500.02	499.86	-0.1576
15	10	HDR BIAS	499.98	499.81	-0.1685
16	10	HDR UNBIAS	500	499.84	-0.1595
17	10	HDR UNBIAS	499.99	500	0.0158
18	10	HDR UNBIAS	499.98	499.83	-0.156
19	10	HDR UNBIAS	499.97	499.8	-0.1633
20	10	HDR UNBIAS	500.02	499.88	-0.1399
31	30	HDR BIAS	500	499.8	-0.205
32	30	HDR BIAS	500.01	499.85	-0.1637
33	30	HDR BIAS	499.94	499.91	-0.0226
34	30	HDR BIAS	500.01	499.88	-0.1336
35	30	HDR BIAS	500.01	499.82	-0.185
36	30	HDR UNBIAS	499.94	499.88	-0.0584
37	30	HDR UNBIAS	499.96	499.9	-0.0519
38	30	HDR UNBIAS	500.01	499.85	-0.154
39	30	HDR UNBIAS	500	499.84	-0.1646
40	30	HDR UNBIAS	500.01	499.88	-0.1303
41	50	HDR BIAS	499.97	499.96	-0.0103
42	50	HDR BIAS	499.99	499.88	-0.1091
43	50	HDR BIAS	500	499.82	-0.177
44	50	HDR BIAS	499.96	499.88	-0.088
45	50	HDR BIAS	499.95	499.88	-0.0779
46	50	HDR UNBIAS	500	499.87	-0.1301
47	50	HDR UNBIAS	499.65	499.8	0.1494
48	50	HDR UNBIAS	499.94	499.89	-0.0503
49	50	HDR UNBIAS	500.01	500	-0.0021
50	50	HDR UNBIAS	500.04	499.82	-0.2215
51	100	HDR BIAS	499.99	499.85	-0.1408
52	100	HDR BIAS	499.99	499.88	-0.1149
53	100	HDR BIAS	499.98	500.01	0.0298
54	100	HDR BIAS	499.94	499.88	-0.065
55	100	HDR BIAS	500.02	499.84	-0.1795
56	100	HDR UNBIAS	500	499.85	-0.1499
57	100	HDR UNBIAS	499.93	499.9	-0.034
58	100	HDR UNBIAS	499.96	499.87	-0.0964
59	100	HDR UNBIAS	499.99	499.81	-0.1724
60	100	HDR UNBIAS	499.99	499.89	-0.0989
91	0	CORRELATION	499.98	499.99	0.0062
92	0	CORRELATION	499.99	499.84	-0.1454
93	0	CORRELATION	500.01	499.81	-0.1995
94	0	CORRELATION	500.03	499.84	-0.186

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.98	500	500.03	0.021988	499.81	499.87	499.99	0.078374	-0.1995	-0.13117	0.0062	0.094425
3	499.96	499.99	500.01	0.015936	499.8	499.88	500.02	0.065331	-0.1727	-0.11177	0.0349	0.061239
10	499.95	499.99	500.02	0.021891	499.8	499.87	500	0.063141	-0.1685	-0.11901	0.0158	0.062108
30	499.94	499.99	500.01	0.031054	499.8	499.86	499.91	0.036148	-0.205	-0.12691	-0.0226	0.061678
50	499.65	499.95	500.04	0.11025	499.8	499.88	500	0.063327	-0.2215	-0.07169	0.1494	0.1036
100	499.93	499.98	500.02	0.026454	499.81	499.88	500.01	0.051945	-0.1795	-0.1022	0.0298	0.065263

Device Test: 20.57 LEVEL|FREQ/RT/14/14/0/1000/5/500kHz//@FSW_EXT_RT_C





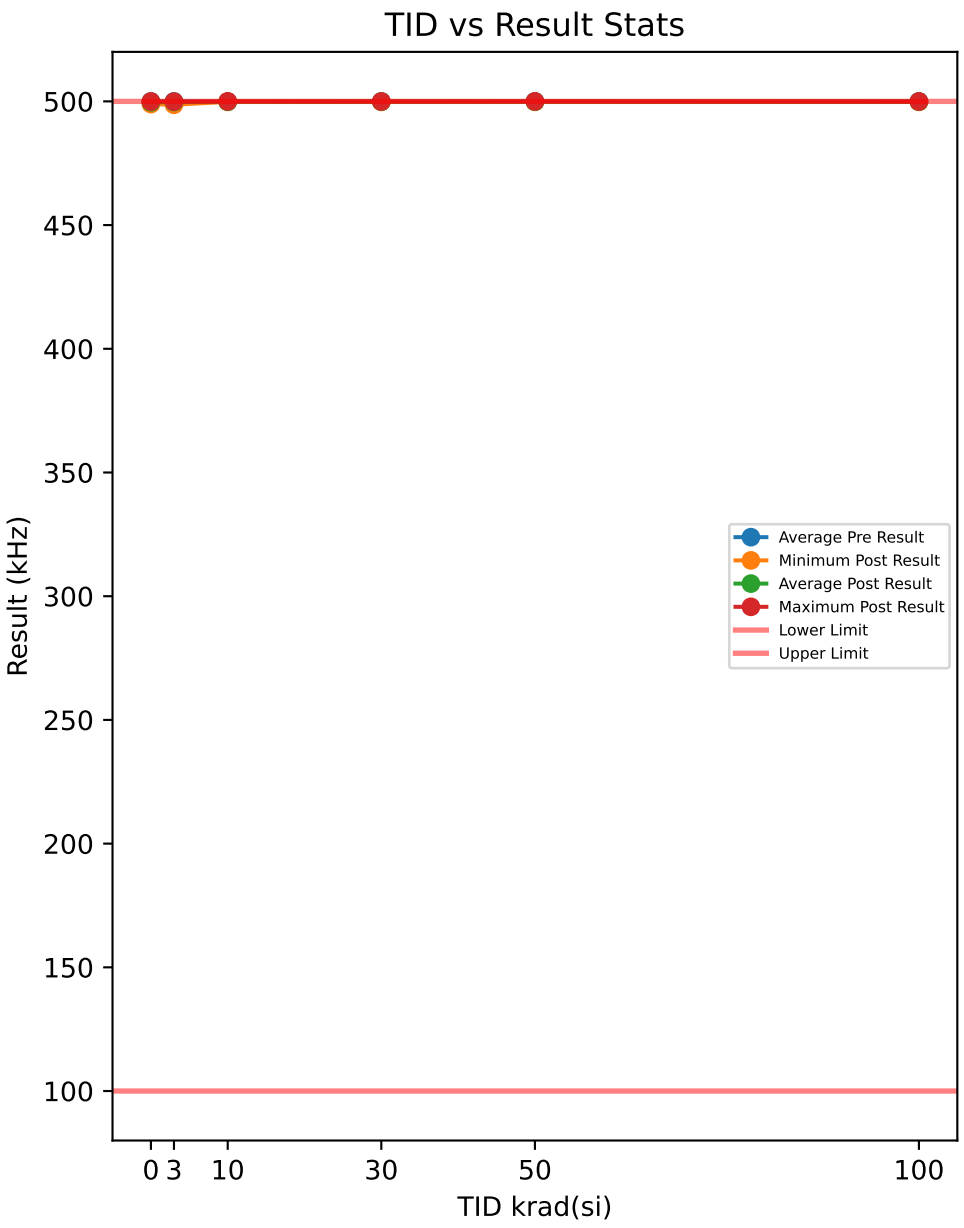
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

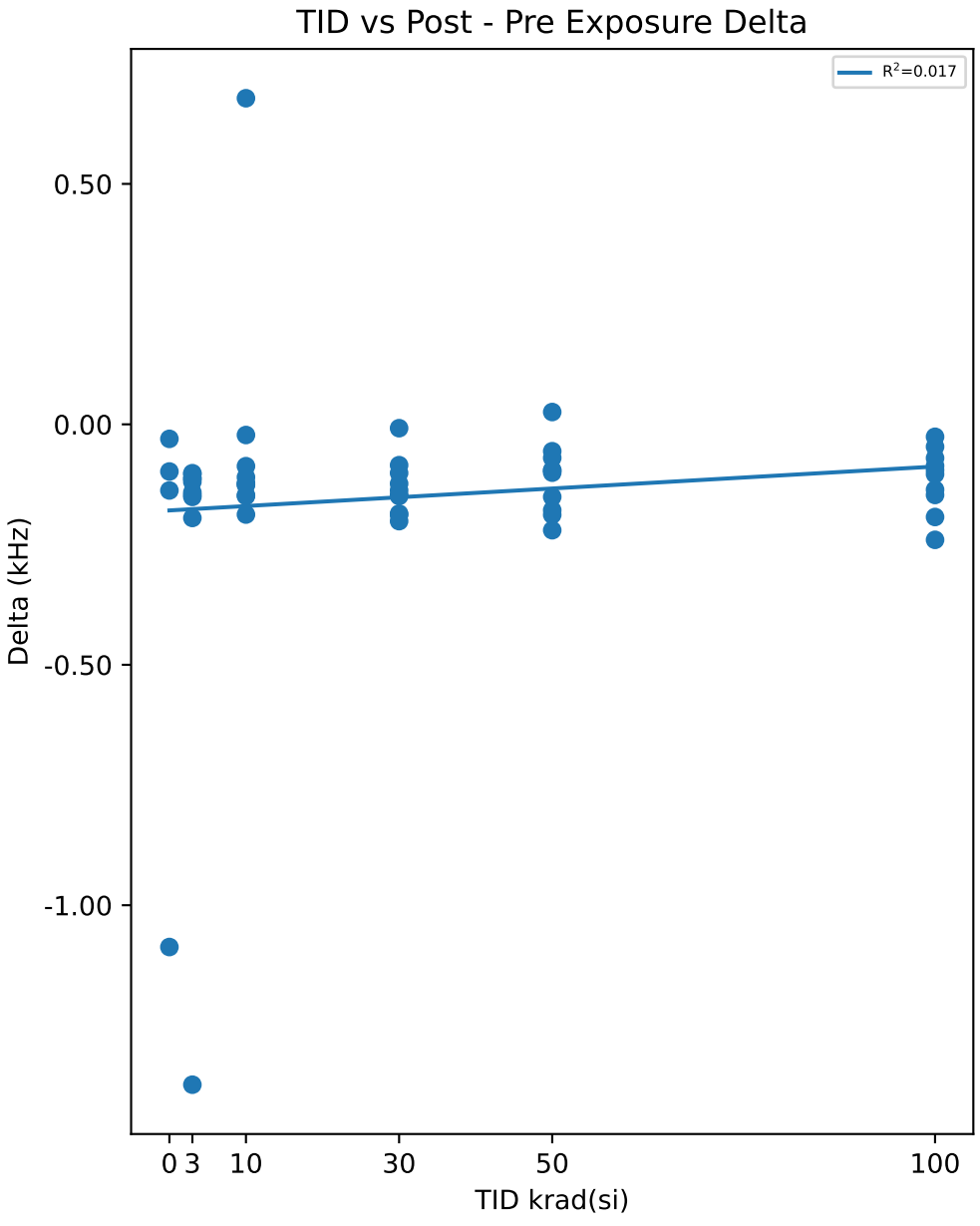
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	498.05	498.2	0.1455
2	3	HDR BIAS	498.41	497.85	-0.5622
3	3	HDR BIAS	503.62	503.87	0.2432
4	3	HDR BIAS	496.72	496.84	0.1191
5	3	HDR BIAS	501.86	501.91	0.0444
6	3	HDR UNBIAS	498.59	498.19	-0.3996
7	3	HDR UNBIAS	493.24	492.81	-0.4348
8	3	HDR UNBIAS	498.38	497.81	-0.5704
9	3	HDR UNBIAS	498.3	498.95	0.652
10	3	HDR UNBIAS	495.81	495.89	0.0798
11	10	HDR BIAS	497.43	497.69	0.2526
12	10	HDR BIAS	495.48	496.55	1.0777
13	10	HDR BIAS	494.05	493.98	-0.0651
14	10	HDR BIAS	502.3	502.32	0.016
15	10	HDR BIAS	490.86	490.89	0.024
16	10	HDR UNBIAS	497.74	497.34	-0.4047
17	10	HDR UNBIAS	486	486.89	0.8867
18	10	HDR UNBIAS	497.2	496.22	-0.9741
19	10	HDR UNBIAS	491.66	492.07	0.4105
20	10	HDR UNBIAS	499.31	498.45	-0.8689
31	30	HDR BIAS	491.71	492.9	1.1977
32	30	HDR BIAS	493.7	493.7	-0.0023
33	30	HDR BIAS	490.96	490.05	-0.9145
34	30	HDR BIAS	494.57	493.74	-0.8361
35	30	HDR BIAS	494.23	493.58	-0.651
36	30	HDR UNBIAS	499.9	499.04	-0.857
37	30	HDR UNBIAS	494.07	495.59	1.5186
38	30	HDR UNBIAS	499.55	499.7	0.146
39	30	HDR UNBIAS	494.25	493.38	-0.8677
40	30	HDR UNBIAS	500.2	501.08	0.8781
41	50	HDR BIAS	503.73	501.98	-1.7443
42	50	HDR BIAS	500.1	501.22	1.1229
43	50	HDR BIAS	503.35	502.97	-0.3715
44	50	HDR BIAS	492.3	493.34	1.0425
45	50	HDR BIAS	494.73	495.03	0.3002
46	50	HDR UNBIAS	502.74	502.74	-0.0032
47	50	HDR UNBIAS	494.67	496.55	1.8857
48	50	HDR UNBIAS	499.5	497.95	-1.5473
49	50	HDR UNBIAS	498.1	499.26	1.1639
50	50	HDR UNBIAS	501.86	501.8	-0.0581
51	100	HDR BIAS	500.7	501.74	1.0467
52	100	HDR BIAS	495.3	494.98	-0.3239
53	100	HDR BIAS	493.48	497.24	3.7627
54	100	HDR BIAS	494.12	494.6	0.4803
55	100	HDR BIAS	495.8	495.74	-0.0573
56	100	HDR UNBIAS	497.38	494.15	-3.2261
57	100	HDR UNBIAS	487.1	489.51	2.4101
58	100	HDR UNBIAS	495.69	496.36	0.6746
59	100	HDR UNBIAS	499.45	501.14	1.6912
60	100	HDR UNBIAS	497.39	494.12	-3.274
91	0	CORRELATION	494.87	494.87	-0.0071
92	0	CORRELATION	499.79	499.79	-0.0043
93	0	CORRELATION	497.17	496.93	-0.2411
94	0	CORRELATION	500.72	500.45	-0.2709

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.87	498.14	500.72	2.6453	494.87	498.01	500.45	2.5921	-0.2709	-0.13085	-0.0043	0.14503
3	493.24	498.3	503.62	2.8956	492.81	498.23	503.87	3.0356	-0.5704	-0.0683	0.652	0.40434
10	486	495.2	502.3	4.7156	486.89	495.24	502.32	4.3937	-0.9741	0.03547	1.0777	0.67
30	490.96	495.32	500.2	3.3625	490.05	495.28	501.08	3.5236	-0.9145	-0.03882	1.5186	0.94071
50	492.3	499.11	503.73	4.0478	493.34	499.29	502.97	3.425	-1.7443	0.17908	1.8857	1.1835
100	487.1	495.64	500.7	3.7442	489.51	495.96	501.74	3.5458	-3.274	0.31843	3.7627	2.2318

Device Test: 20.58 LEVEL|FREQ/SYNC/14/14/0/1000/5/500kHz//@FREQ_SYNC_EXT_503X





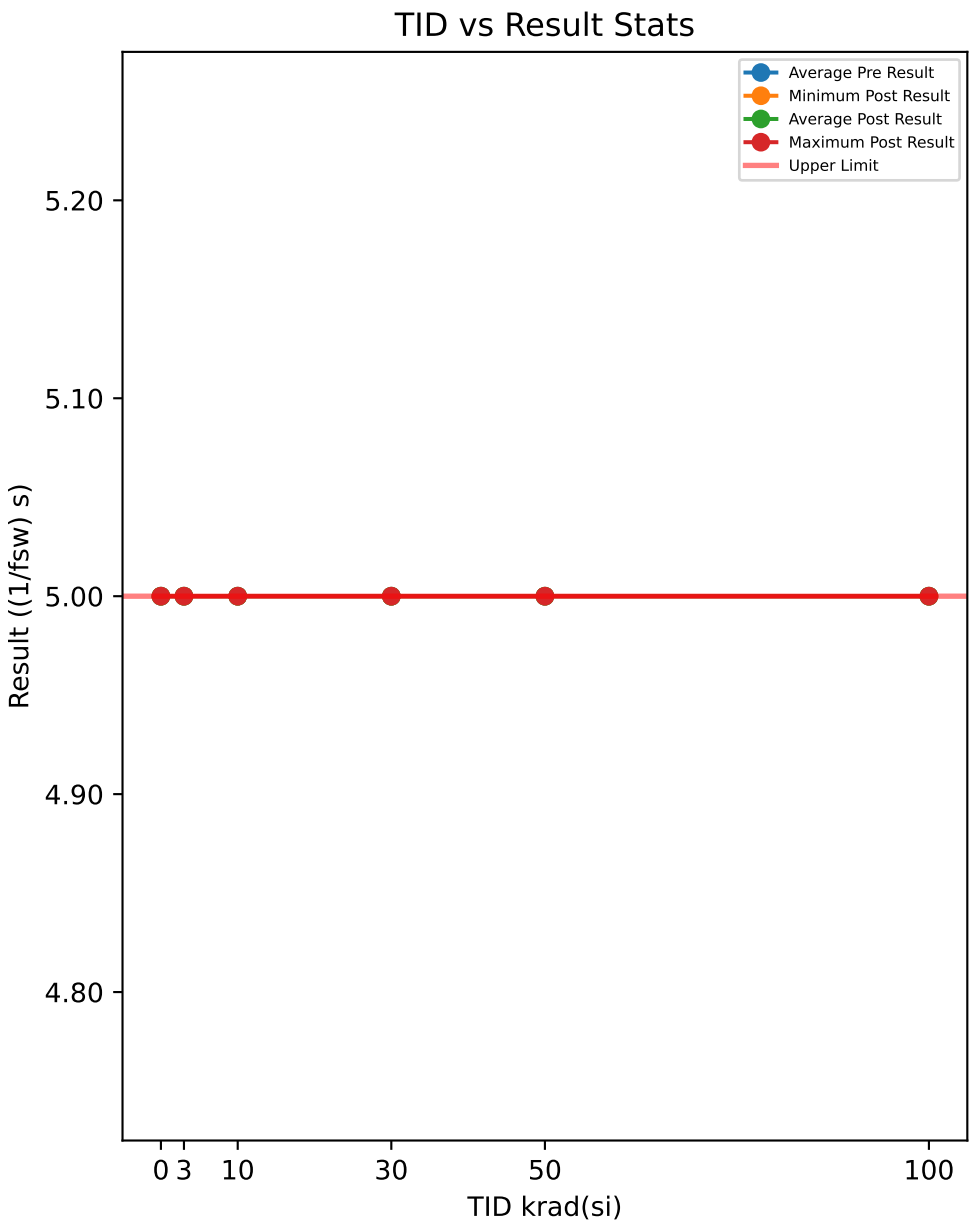
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

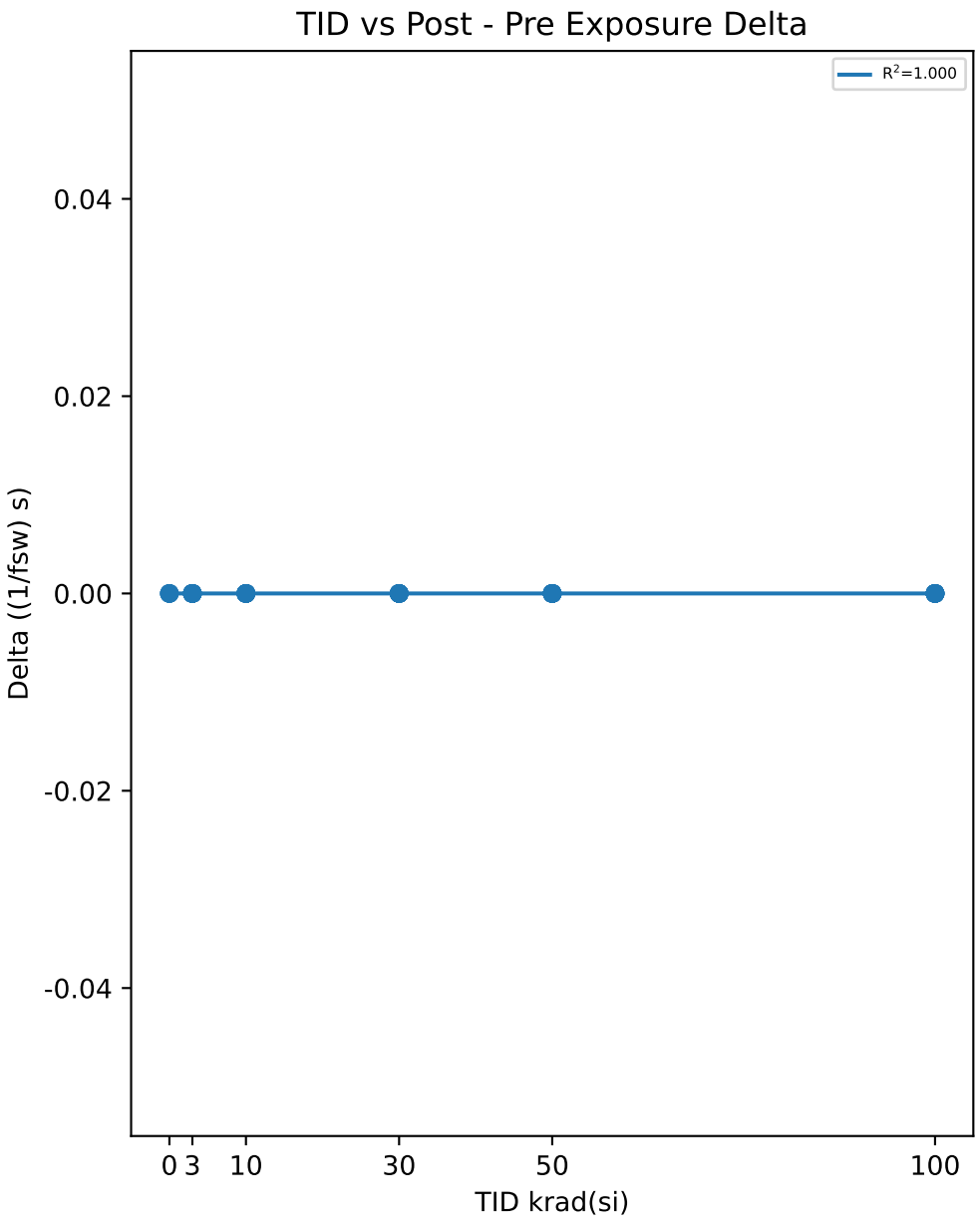
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	500.01	499.9	-0.1128
2	3	HDR BIAS	500.02	499.87	-0.1469
3	3	HDR BIAS	499.94	499.84	-0.1016
4	3	HDR BIAS	499.96	499.85	-0.1124
5	3	HDR BIAS	500.03	499.88	-0.1509
6	3	HDR UNBIAS	499.99	499.85	-0.1414
7	3	HDR UNBIAS	500	498.63	-1.3732
8	3	HDR UNBIAS	500	499.88	-0.1196
9	3	HDR UNBIAS	499.96	499.86	-0.1032
10	3	HDR UNBIAS	500.01	499.82	-0.1947
11	10	HDR BIAS	499.99	499.8	-0.1876
12	10	HDR BIAS	499.96	499.84	-0.1218
13	10	HDR BIAS	500	499.85	-0.1474
14	10	HDR BIAS	499.97	499.86	-0.1099
15	10	HDR BIAS	499.16	499.83	0.6781
16	10	HDR UNBIAS	499.97	499.84	-0.1261
17	10	HDR UNBIAS	500.03	500.01	-0.0222
18	10	HDR UNBIAS	499.95	499.86	-0.087
19	10	HDR UNBIAS	499.95	499.8	-0.149
20	10	HDR UNBIAS	499.97	499.85	-0.1249
31	30	HDR BIAS	500	499.82	-0.1882
32	30	HDR BIAS	499.97	499.85	-0.1234
33	30	HDR BIAS	499.98	499.97	-0.008
34	30	HDR BIAS	499.98	499.88	-0.1013
35	30	HDR BIAS	500.02	499.83	-0.1857
36	30	HDR UNBIAS	499.99	499.84	-0.1474
37	30	HDR UNBIAS	500.02	499.87	-0.1491
38	30	HDR UNBIAS	500.02	499.82	-0.2013
39	30	HDR UNBIAS	499.94	499.81	-0.1374
40	30	HDR UNBIAS	499.96	499.88	-0.0849
41	50	HDR BIAS	499.98	499.91	-0.0698
42	50	HDR BIAS	499.96	499.86	-0.0956
43	50	HDR BIAS	499.96	499.81	-0.1508
44	50	HDR BIAS	499.98	499.88	-0.0954
45	50	HDR BIAS	499.99	499.93	-0.0559
46	50	HDR UNBIAS	500.01	499.83	-0.1785
47	50	HDR UNBIAS	500.03	499.81	-0.2202
48	50	HDR UNBIAS	499.95	499.85	-0.1005
49	50	HDR UNBIAS	499.97	499.99	0.0256
50	50	HDR UNBIAS	500.02	499.83	-0.1881
51	100	HDR BIAS	499.98	499.84	-0.1359
52	100	HDR BIAS	499.96	499.88	-0.0864
53	100	HDR BIAS	499.98	499.93	-0.0466
54	100	HDR BIAS	499.99	499.84	-0.1469
55	100	HDR BIAS	500.01	499.81	-0.1927
56	100	HDR UNBIAS	499.98	499.88	-0.1037
57	100	HDR UNBIAS	499.99	499.96	-0.0259
58	100	HDR UNBIAS	499.97	499.87	-0.0952
59	100	HDR UNBIAS	500.05	499.81	-0.2402
60	100	HDR UNBIAS	499.95	499.88	-0.0702
91	0	CORRELATION	499.98	499.95	-0.0302
92	0	CORRELATION	499.99	498.9	-1.0869
93	0	CORRELATION	500	499.86	-0.1375
94	0	CORRELATION	499.98	499.88	-0.0981

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.98	499.99	500	0.010554	498.9	499.65	499.95	0.49996	-1.0869	-0.33817	-0.0302	0.50111
3	499.94	499.99	500.03	0.028511	498.63	499.74	499.9	0.39141	-1.3732	-0.25567	-0.1016	0.39369
10	499.16	499.89	500.03	0.2605	499.8	499.85	500.01	0.057312	-0.1876	-0.03978	0.6781	0.25595
30	499.94	499.99	500.02	0.026749	499.81	499.86	499.97	0.047459	-0.2013	-0.13267	-0.008	0.057744
50	499.95	499.99	500.03	0.027719	499.81	499.87	499.99	0.058643	-0.2202	-0.11292	0.0256	0.072996
100	499.95	499.99	500.05	0.026906	499.81	499.87	499.96	0.048698	-0.2402	-0.11437	-0.0259	0.065933

Device Test: 20.72 FREQ|DETECTION/SYNC/12/12/0/0/5/100kHz//@T_SYNC_DET





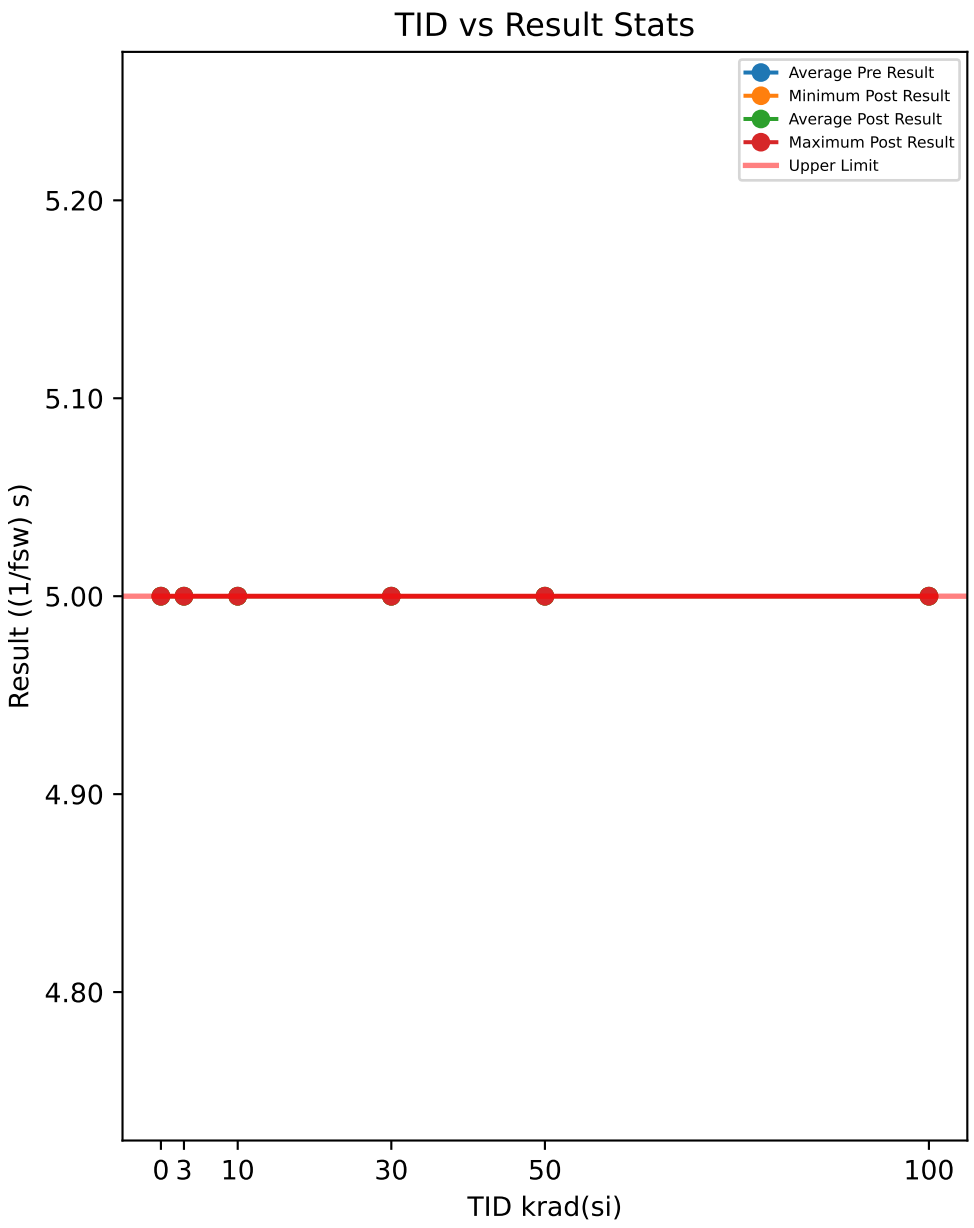
Test Results (Upper Limit = 5.0 ((1/fsw) s))

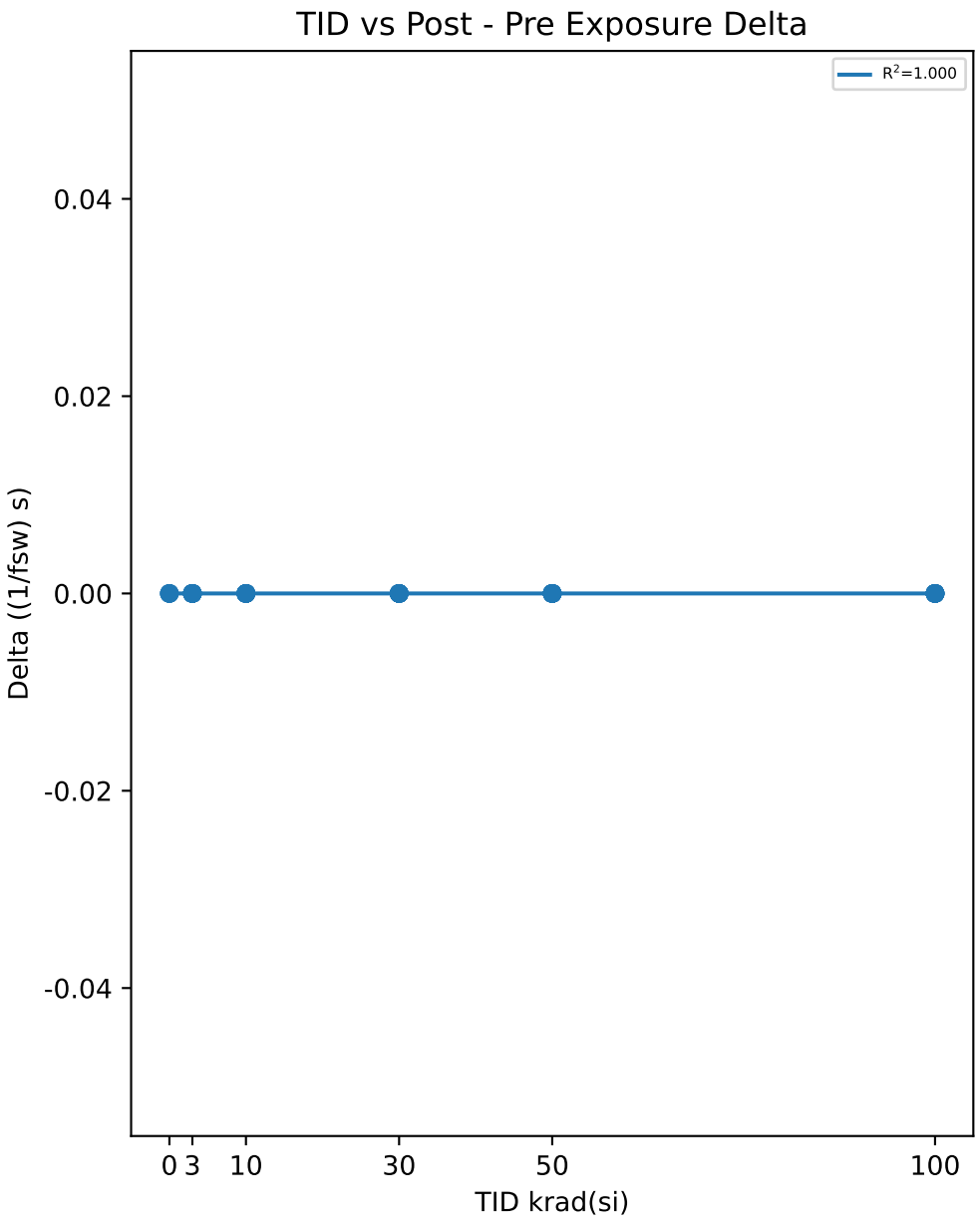
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.74 FREQ|DETECTION/SYNC/14/14/0/0/5/100kHz//@T_SYNC_DET





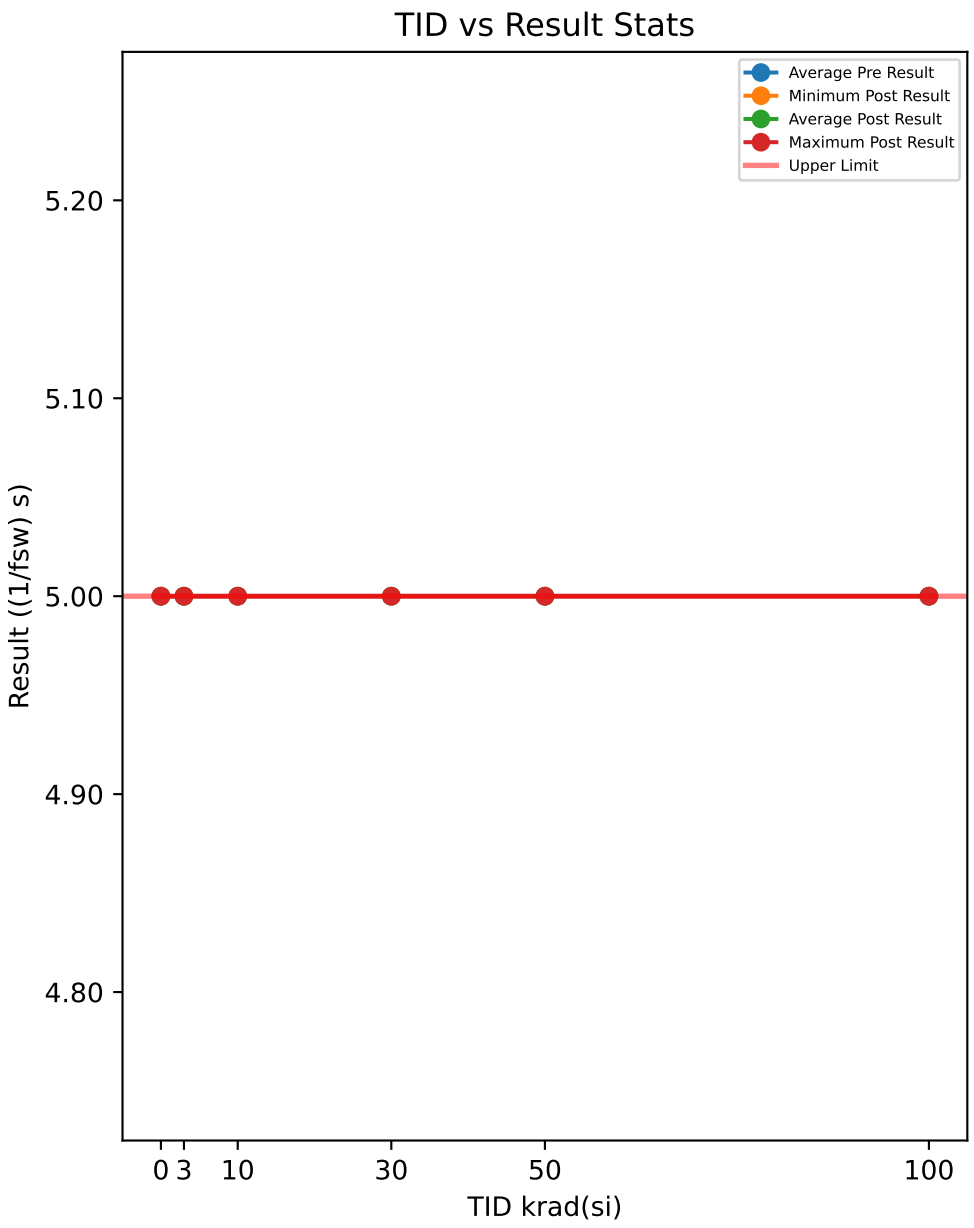
Test Results (Upper Limit = 5.0 ((1/fsw) s))

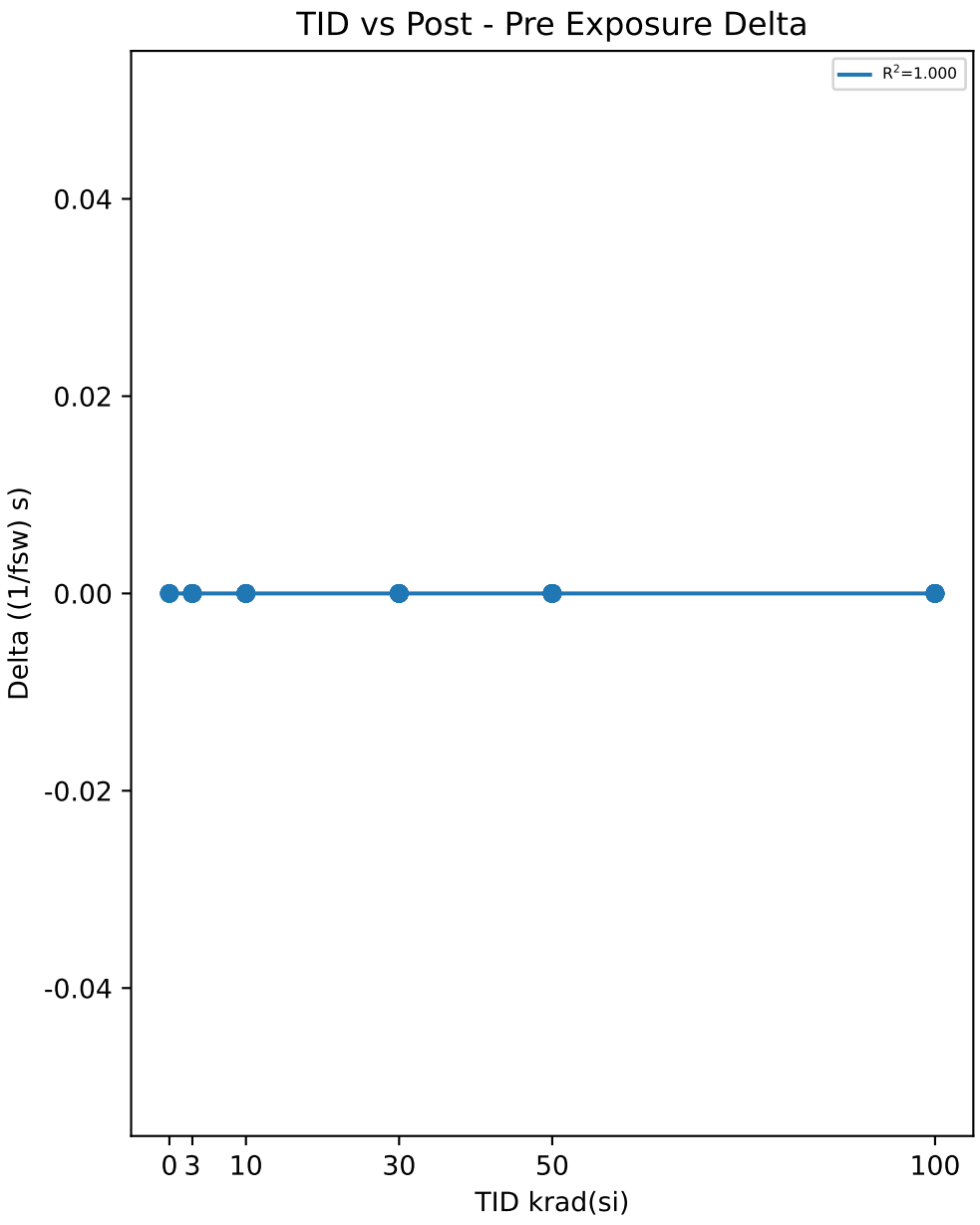
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.76 FREQ|DETECTION/SYNC/12/12/0/0/5/200kHz//@T_SYNC_DET





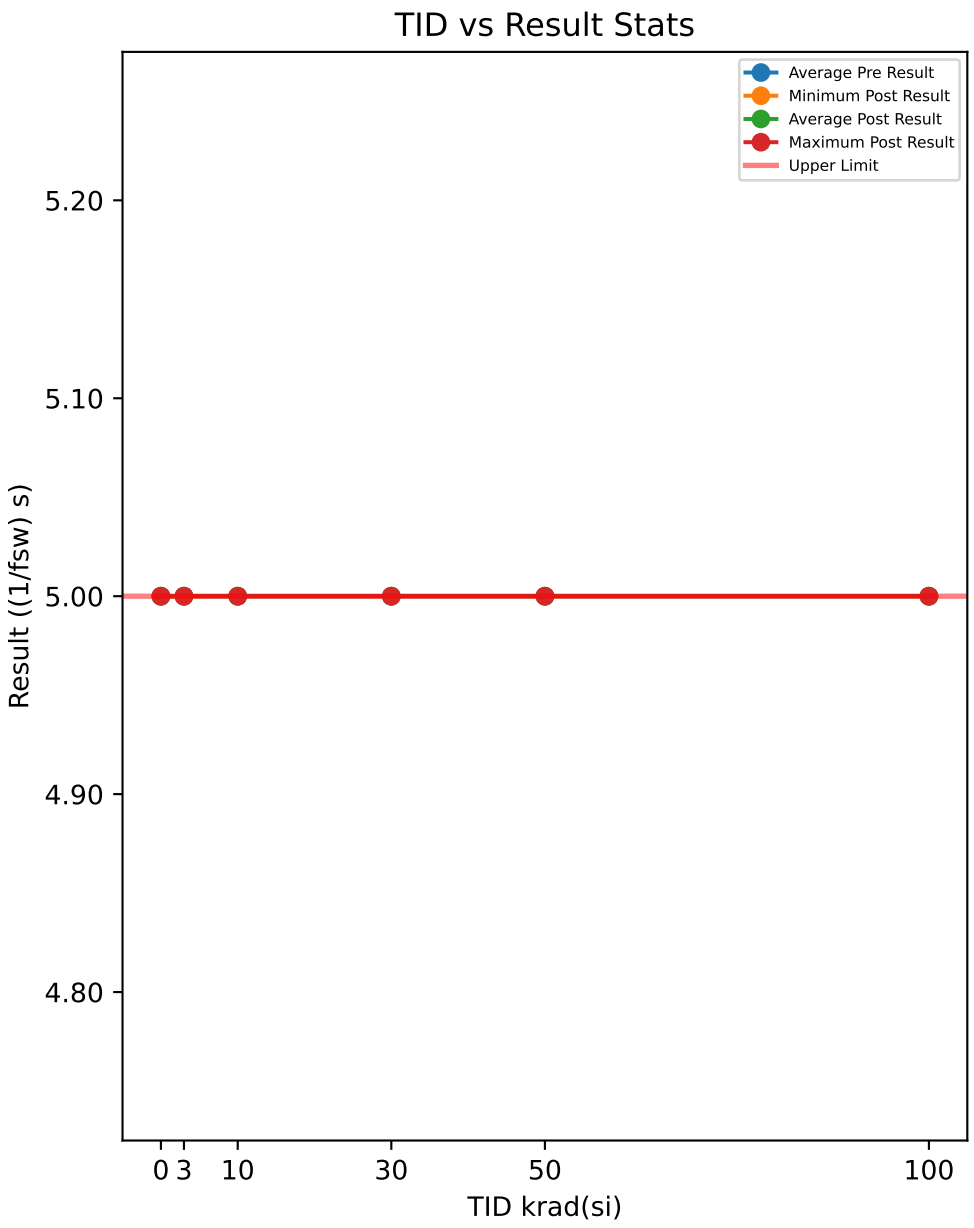
Test Results (Upper Limit = 5.0 ((1/fsw) s))

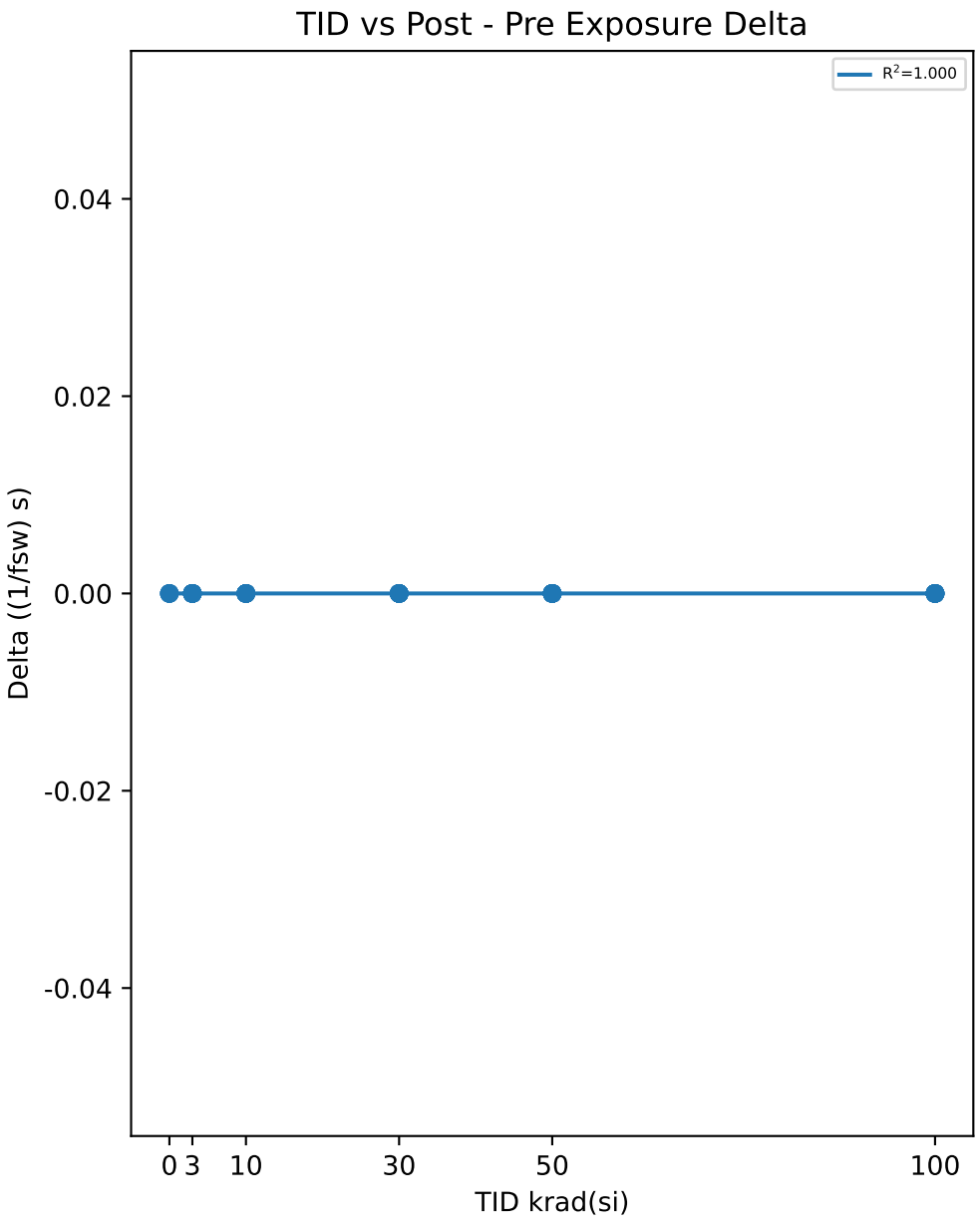
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.78 FREQ|DETECTION/SYNC/14/14/0/0/5/200kHz//@T_SYNC_DET





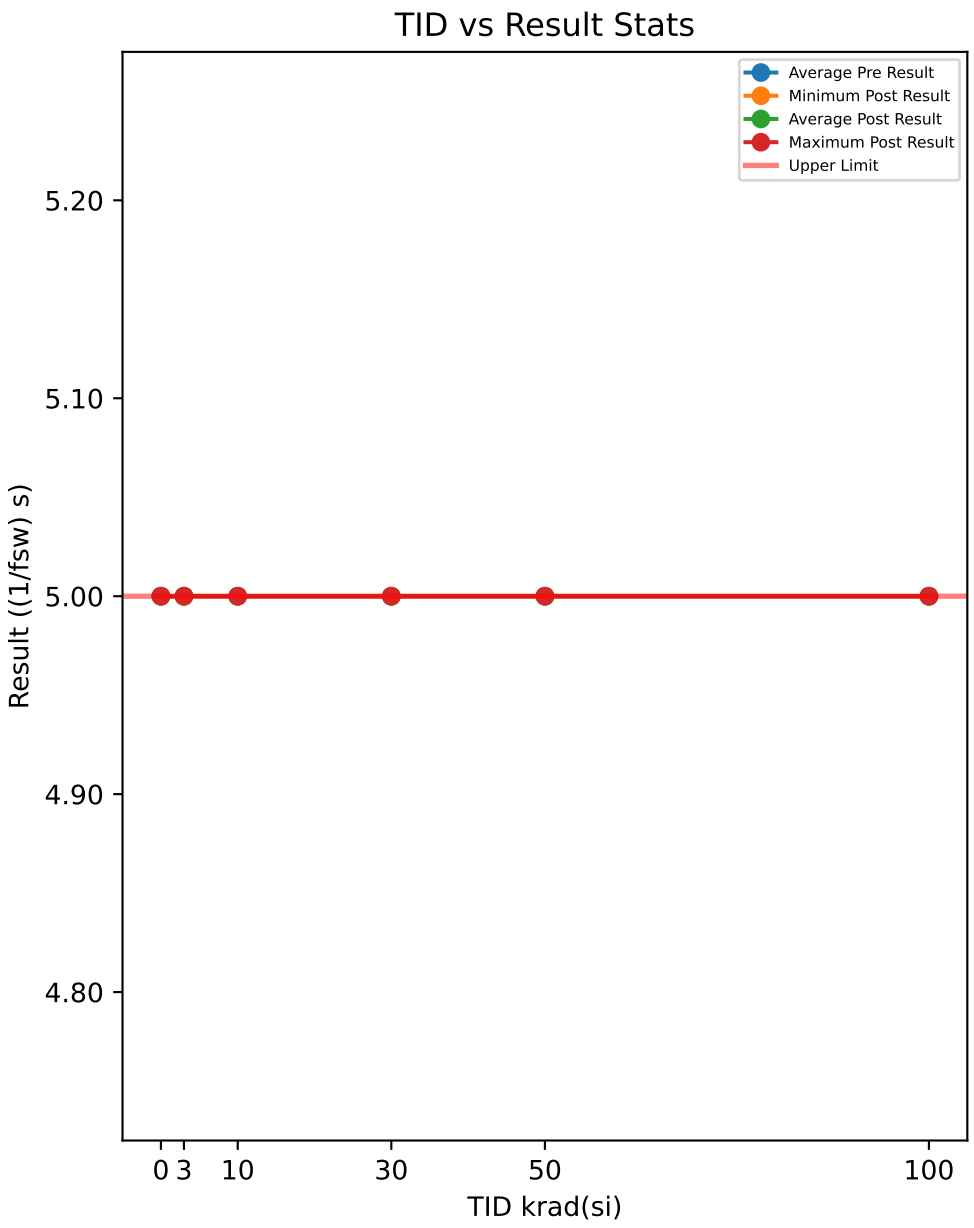
Test Results (Upper Limit = 5.0 ((1/fsw) s))

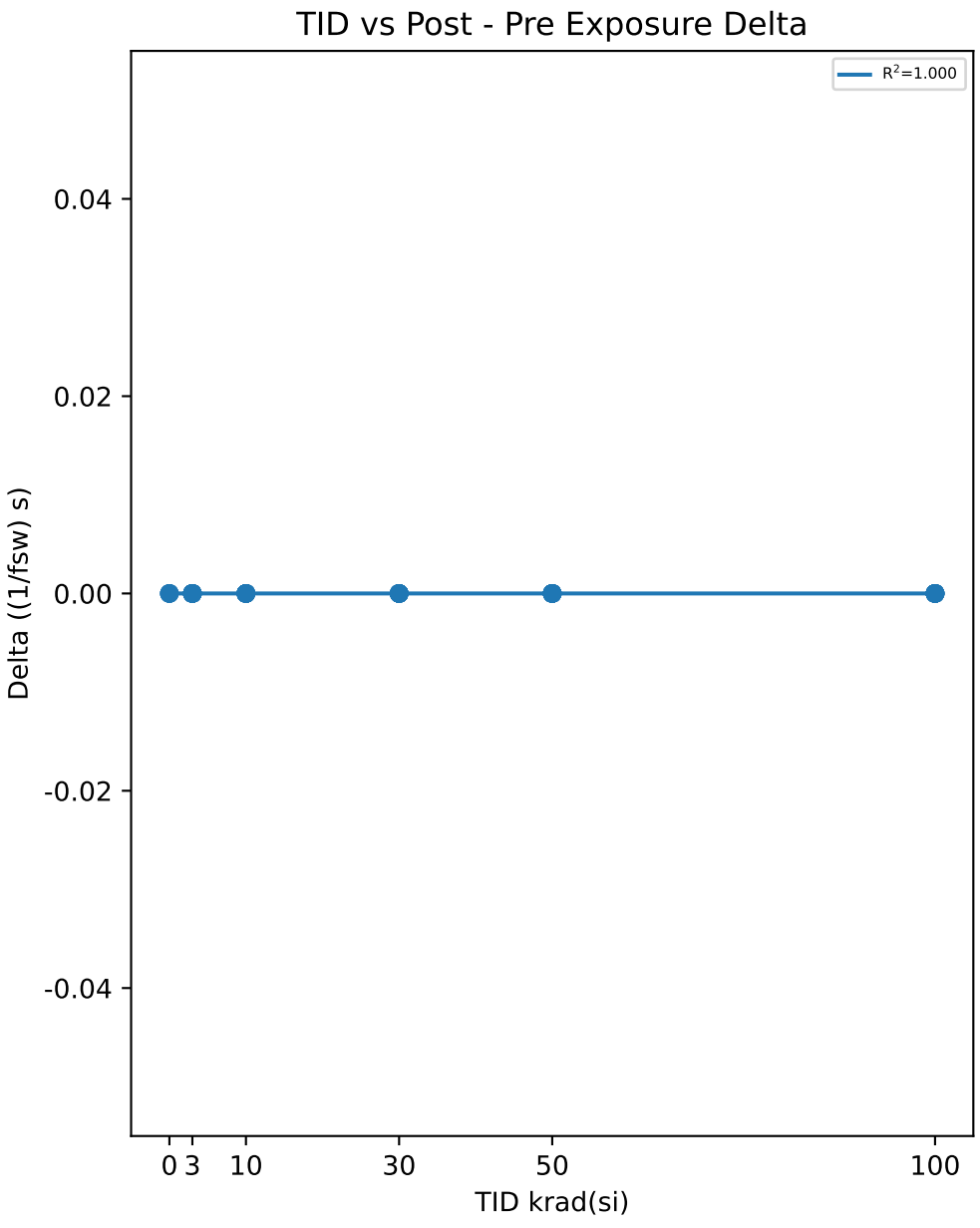
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.80 FREQ|DETECTION/SYNC/12/12/0/0/5/500kHz//@T_SYNC_DET





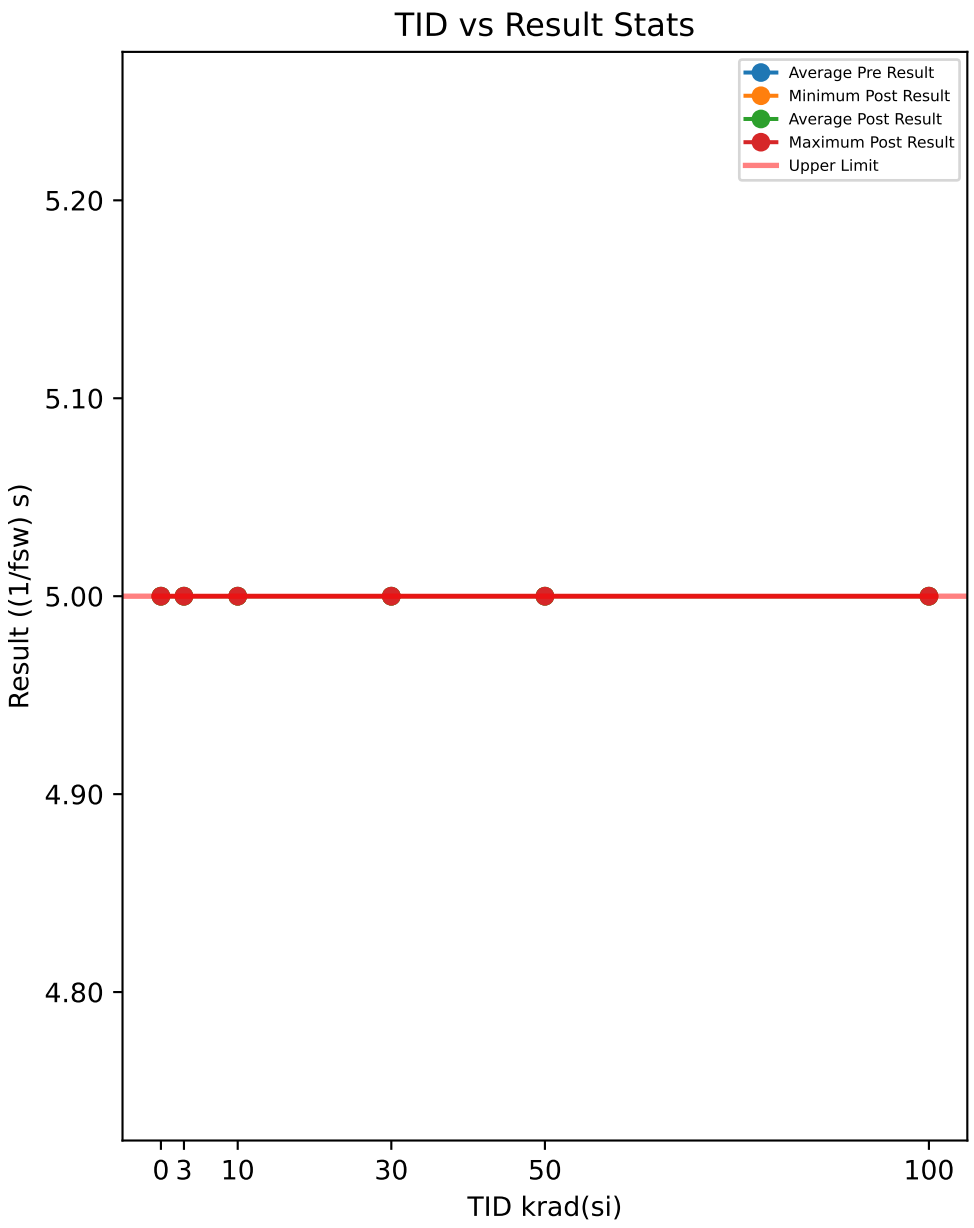
Test Results (Upper Limit = 5.0 ((1/fsw) s))

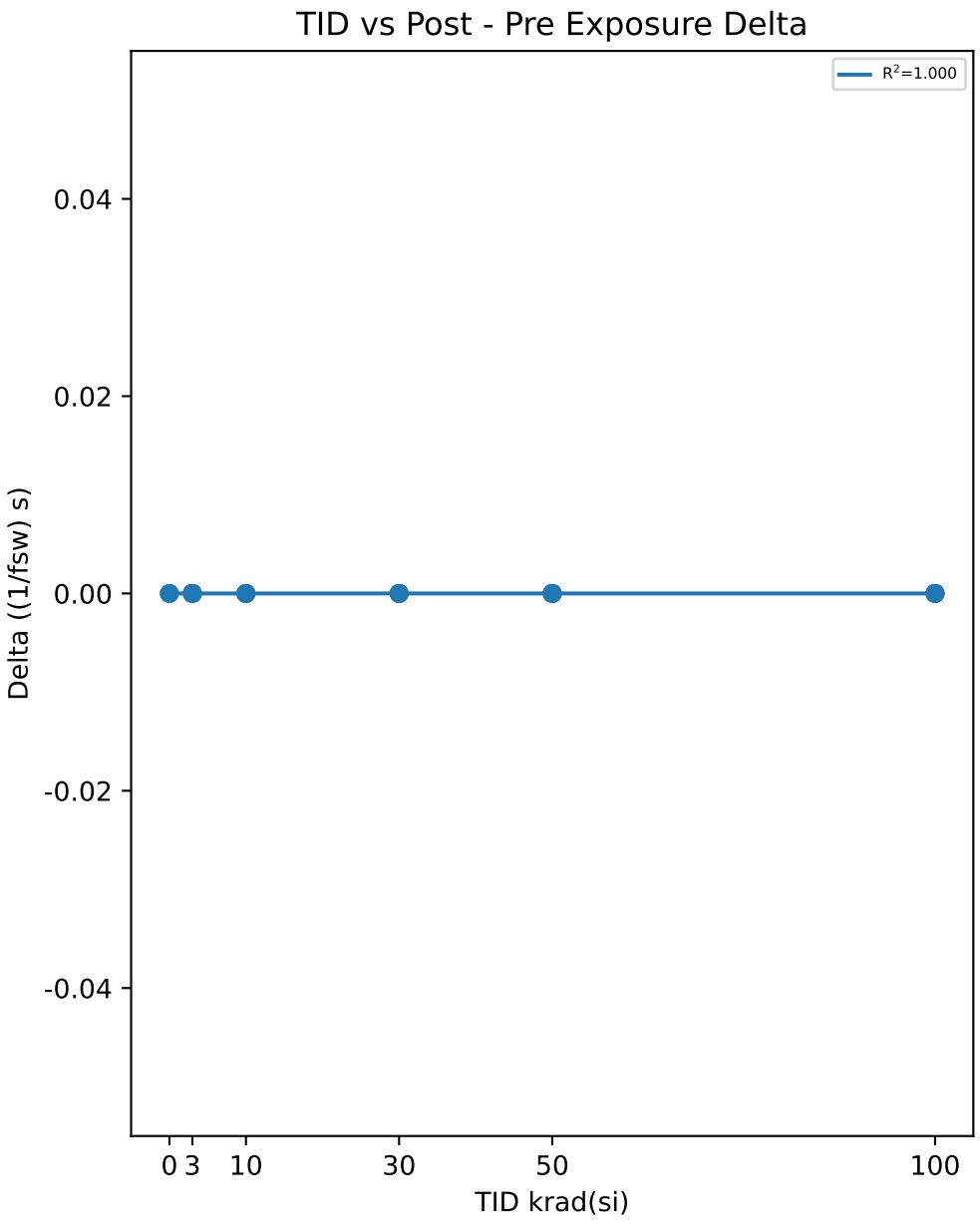
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.82 FREQ|DETECTION/SYNC/14/14/0/0/5/500kHz//@T_SYNC_DET





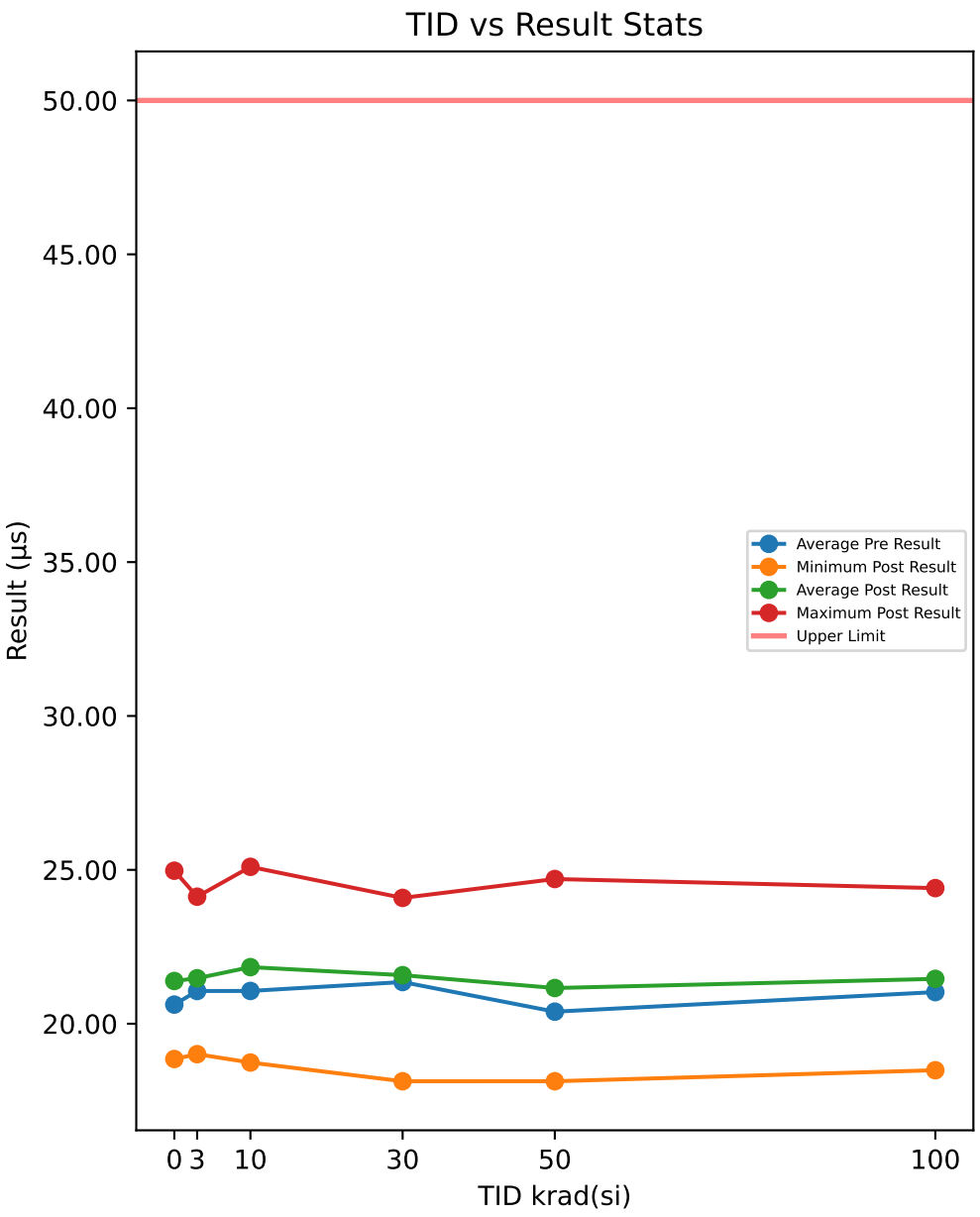
Test Results (Upper Limit = 5.0 ((1/fsw) s))

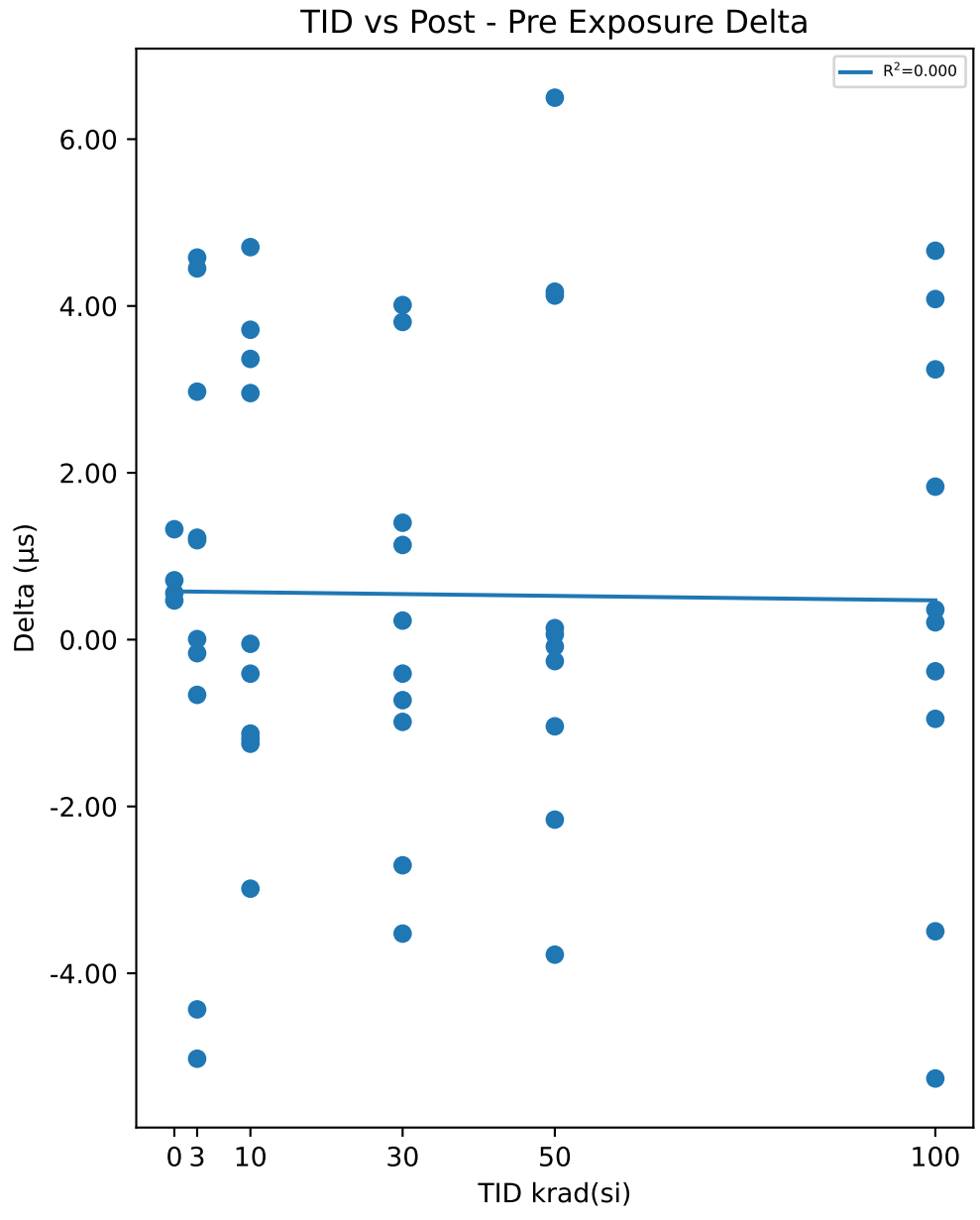
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	5	5	0
2	3	HDR BIAS	5	5	0
3	3	HDR BIAS	5	5	0
4	3	HDR BIAS	5	5	0
5	3	HDR BIAS	5	5	0
6	3	HDR UNBIAS	5	5	0
7	3	HDR UNBIAS	5	5	0
8	3	HDR UNBIAS	5	5	0
9	3	HDR UNBIAS	5	5	0
10	3	HDR UNBIAS	5	5	0
11	10	HDR BIAS	5	5	0
12	10	HDR BIAS	5	5	0
13	10	HDR BIAS	5	5	0
14	10	HDR BIAS	5	5	0
15	10	HDR BIAS	5	5	0
16	10	HDR UNBIAS	5	5	0
17	10	HDR UNBIAS	5	5	0
18	10	HDR UNBIAS	5	5	0
19	10	HDR UNBIAS	5	5	0
20	10	HDR UNBIAS	5	5	0
31	30	HDR BIAS	5	5	0
32	30	HDR BIAS	5	5	0
33	30	HDR BIAS	5	5	0
34	30	HDR BIAS	5	5	0
35	30	HDR BIAS	5	5	0
36	30	HDR UNBIAS	5	5	0
37	30	HDR UNBIAS	5	5	0
38	30	HDR UNBIAS	5	5	0
39	30	HDR UNBIAS	5	5	0
40	30	HDR UNBIAS	5	5	0
41	50	HDR BIAS	5	5	0
42	50	HDR BIAS	5	5	0
43	50	HDR BIAS	5	5	0
44	50	HDR BIAS	5	5	0
45	50	HDR BIAS	5	5	0
46	50	HDR UNBIAS	5	5	0
47	50	HDR UNBIAS	5	5	0
48	50	HDR UNBIAS	5	5	0
49	50	HDR UNBIAS	5	5	0
50	50	HDR UNBIAS	5	5	0
51	100	HDR BIAS	5	5	0
52	100	HDR BIAS	5	5	0
53	100	HDR BIAS	5	5	0
54	100	HDR BIAS	5	5	0
55	100	HDR BIAS	5	5	0
56	100	HDR UNBIAS	5	5	0
57	100	HDR UNBIAS	5	5	0
58	100	HDR UNBIAS	5	5	0
59	100	HDR UNBIAS	5	5	0
60	100	HDR UNBIAS	5	5	0
91	0	CORRELATION	5	5	0
92	0	CORRELATION	5	5	0
93	0	CORRELATION	5	5	0
94	0	CORRELATION	5	5	0

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5	5	5	0	5	5	5	0	0	0	0	0
3	5	5	5	0	5	5	5	0	0	0	0	0
10	5	5	5	0	5	5	5	0	0	0	0	0
30	5	5	5	0	5	5	5	0	0	0	0	0
50	5	5	5	0	5	5	5	0	0	0	0	0
100	5	5	5	0	5	5	5	0	0	0	0	0

Device Test: 20.83 TIMING|DETECTION/RT/12/12/0/0/5/100kHz//@T_INT_CLK_DET_100K





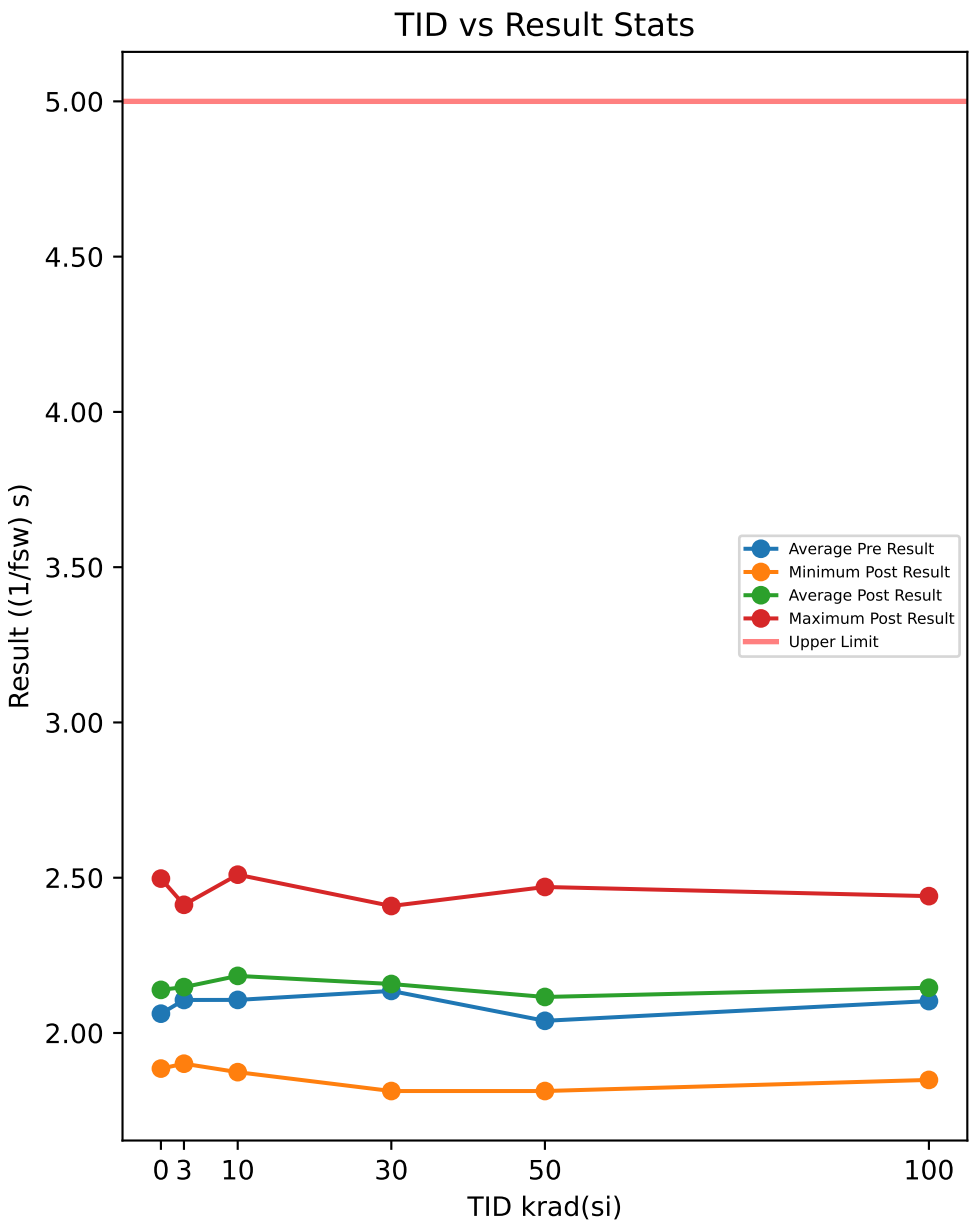
Test Results (Upper Limit = 50.0 (µs))

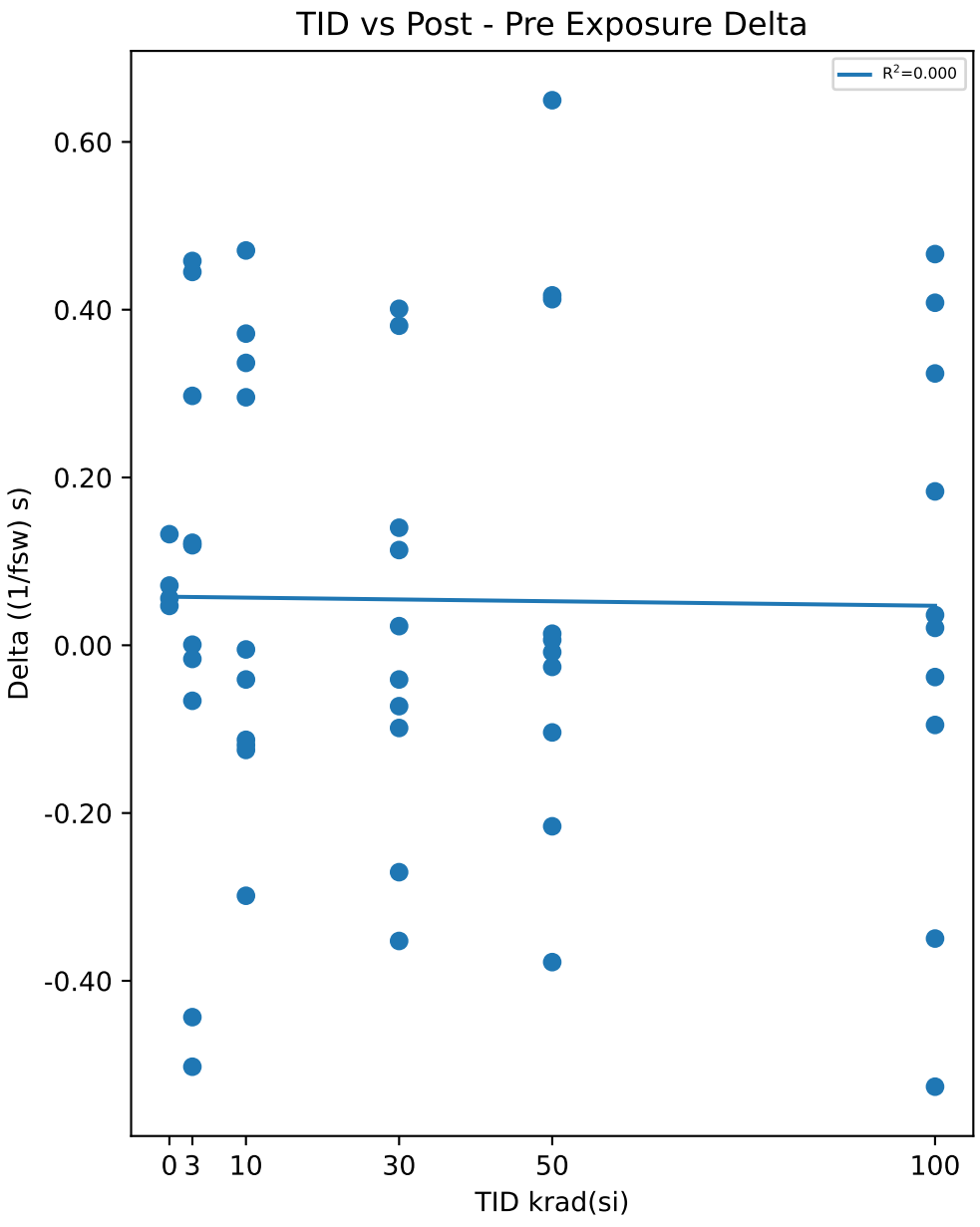
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	22.936	24.128	1.1916
2	3	HDR BIAS	19.992	19.829	-0.1625
3	3	HDR BIAS	18.927	23.507	4.5805
4	3	HDR BIAS	24.687	19.663	-5.0244
5	3	HDR BIAS	18.415	21.388	2.973
6	3	HDR UNBIAS	20.375	19.713	-0.6621
7	3	HDR UNBIAS	22.362	23.584	1.2221
8	3	HDR UNBIAS	20.212	20.219	0.0065
9	3	HDR UNBIAS	19.285	23.735	4.4501
10	3	HDR UNBIAS	23.444	19.011	-4.4329
11	10	HDR BIAS	20.093	24.799	4.7056
12	10	HDR BIAS	19.241	18.833	-0.4081
13	10	HDR BIAS	24.115	22.988	-1.1264
14	10	HDR BIAS	20.352	19.104	-1.2479
15	10	HDR BIAS	21.15	24.516	3.3656
16	10	HDR UNBIAS	23.497	20.512	-2.9856
17	10	HDR UNBIAS	21.383	25.098	3.7152
18	10	HDR UNBIAS	18.789	18.739	-0.05
19	10	HDR UNBIAS	24.011	22.821	-1.1892
20	10	HDR UNBIAS	18.023	20.979	2.9557
31	30	HDR BIAS	22.594	23.729	1.1351
32	30	HDR BIAS	22.53	19.005	-3.5245
33	30	HDR BIAS	19.906	23.918	4.0114
34	30	HDR BIAS	23.447	22.46	-0.9861
35	30	HDR BIAS	20.28	24.089	3.8081
36	30	HDR UNBIAS	18.857	18.131	-0.7258
37	30	HDR UNBIAS	23.017	22.609	-0.4073
38	30	HDR UNBIAS	19.507	19.735	0.2282
39	30	HDR UNBIAS	21.14	22.541	1.4014
40	30	HDR UNBIAS	22.268	19.563	-2.7055
41	50	HDR BIAS	18.039	22.164	4.1248
42	50	HDR BIAS	19.796	18.757	-1.0394
43	50	HDR BIAS	21.312	21.23	-0.0823
44	50	HDR BIAS	20.457	20.52	0.0627
45	50	HDR BIAS	20.464	24.635	4.1714
46	50	HDR UNBIAS	23.445	19.668	-3.7768
47	50	HDR UNBIAS	18.205	24.702	6.4974
48	50	HDR UNBIAS	19.377	19.515	0.138
49	50	HDR UNBIAS	22.536	22.278	-0.2578
50	50	HDR UNBIAS	20.289	18.131	-2.1581
51	100	HDR BIAS	20.324	24.407	4.0829
52	100	HDR BIAS	23.751	18.489	-5.2617
53	100	HDR BIAS	19.26	23.923	4.6626
54	100	HDR BIAS	19.967	20.328	0.3606
55	100	HDR BIAS	24.055	23.105	-0.9496
56	100	HDR UNBIAS	20.474	20.095	-0.3794
57	100	HDR UNBIAS	20.015	23.255	3.2401
58	100	HDR UNBIAS	23.369	19.873	-3.4968
59	100	HDR UNBIAS	20.037	21.871	1.8339
60	100	HDR UNBIAS	19.021	19.228	0.2072
91	0	CORRELATION	21.314	22.637	1.3235
92	0	CORRELATION	18.529	19.088	0.5593
93	0	CORRELATION	24.26	24.972	0.7119
94	0	CORRELATION	18.384	18.854	0.469

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	18.384	20.622	24.26	2.7752	18.854	21.388	24.972	2.9508	0.469	0.76593	1.3235	0.385
3	18.415	21.063	24.687	2.1366	19.011	21.478	24.128	2.0406	-5.0244	0.41419	4.5805	3.2691
10	18.023	21.065	24.115	2.1912	18.739	21.839	25.098	2.5268	-2.9856	0.77349	4.7056	2.6531
30	18.857	21.355	23.447	1.6276	18.131	21.578	24.089	2.2393	-3.5245	0.2235	4.0114	2.4677
50	18.039	20.392	23.445	1.7156	18.131	21.16	24.702	2.2895	-3.7768	0.76799	6.4974	3.1768
100	19.021	21.027	24.055	1.9191	18.489	21.457	24.407	2.1166	-5.2617	0.42998	4.6626	3.1895

Device Test: 20.84 FREQ|DETECTION/RT/12/12/0/0/5/100kHz//@T_INT_CLK_DET





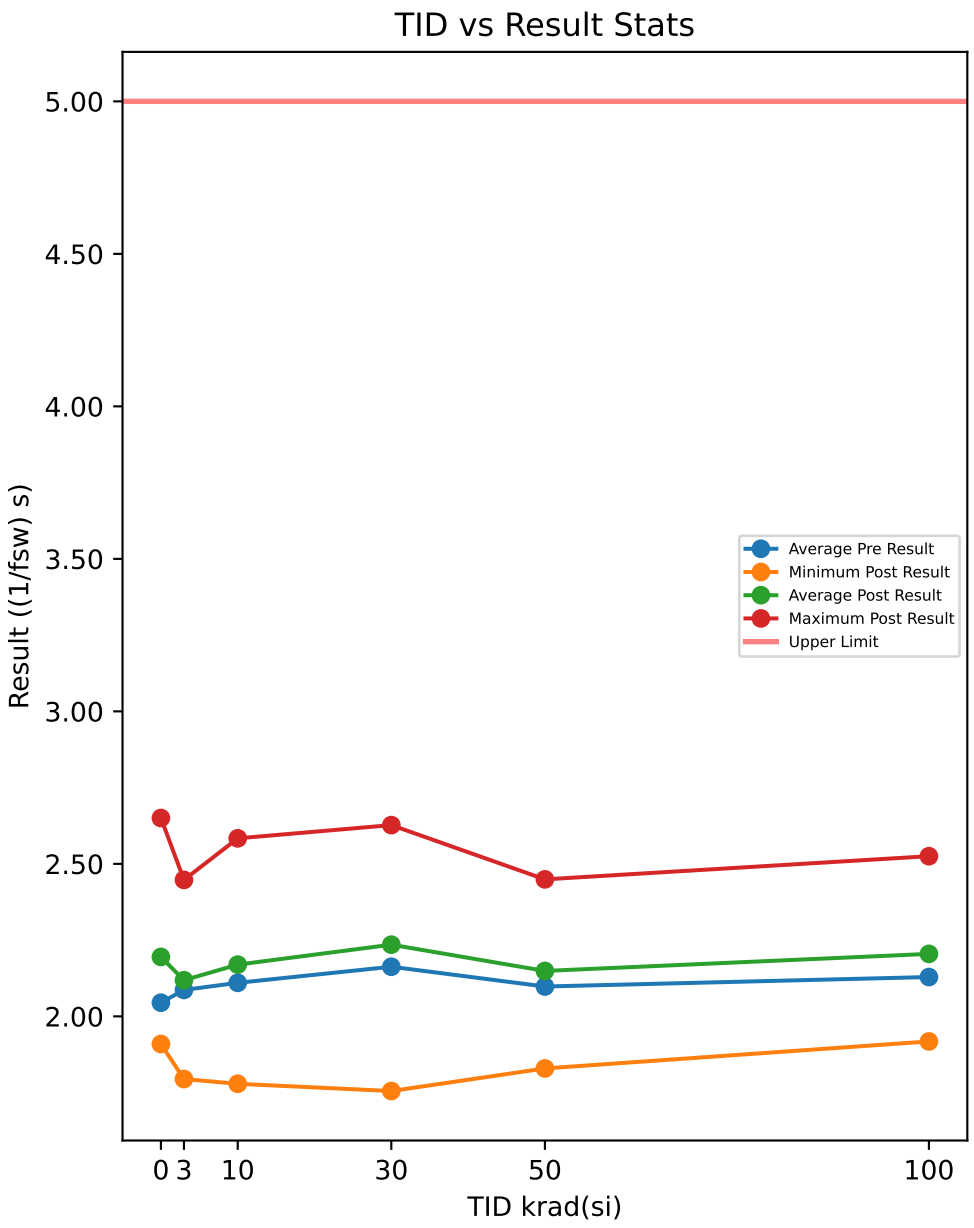
Test Results (Upper Limit = 5.0 ((1/fsw) s))

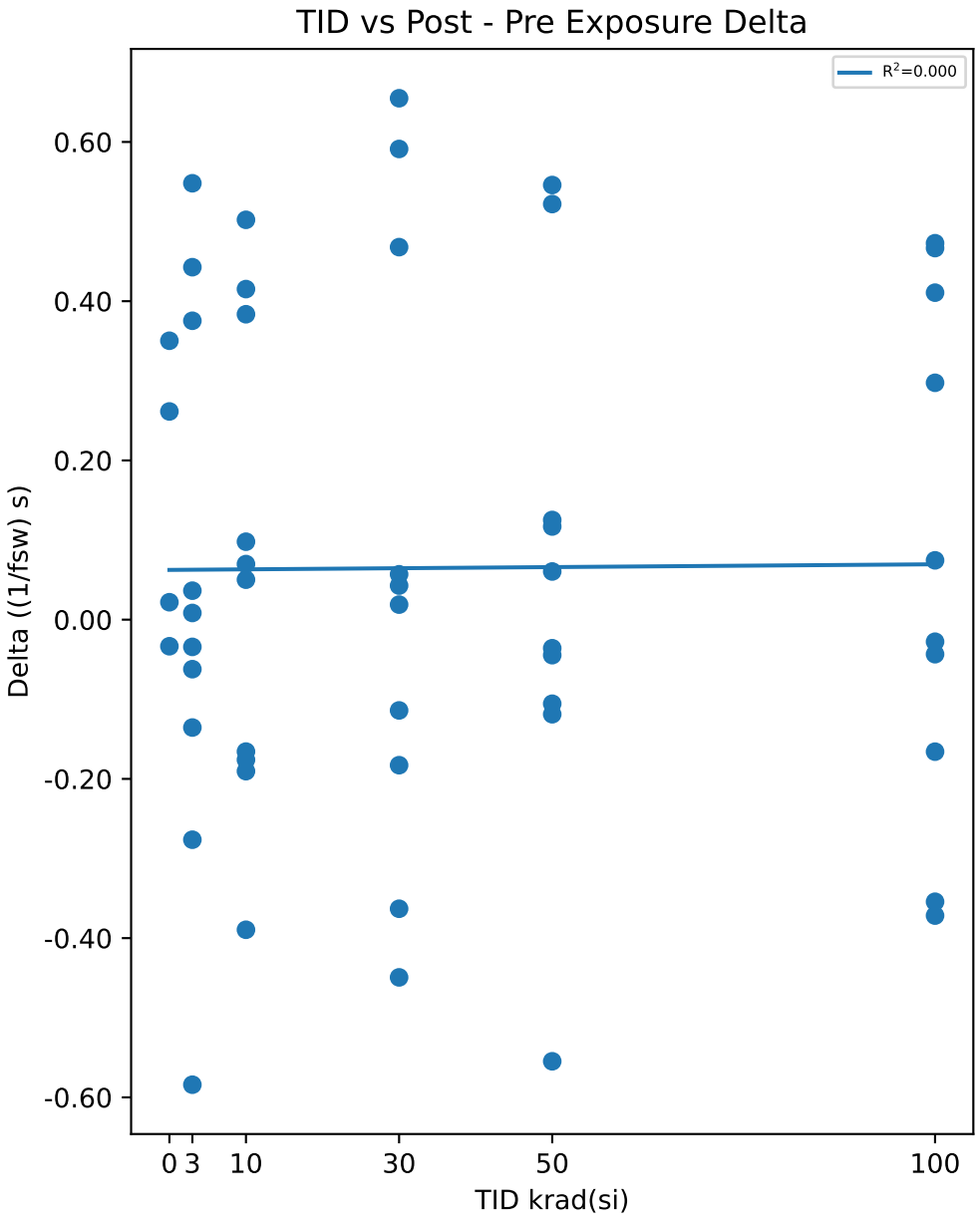
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.2936	2.4128	0.1192
2	3	HDR BIAS	1.9992	1.9829	-0.0163
3	3	HDR BIAS	1.8926	2.3507	0.4581
4	3	HDR BIAS	2.4687	1.9663	-0.5024
5	3	HDR BIAS	1.8415	2.1388	0.2973
6	3	HDR UNBIAS	2.0375	1.9713	-0.0662
7	3	HDR UNBIAS	2.2362	2.3584	0.1222
8	3	HDR UNBIAS	2.0212	2.0219	0.0007
9	3	HDR UNBIAS	1.9285	2.3735	0.445
10	3	HDR UNBIAS	2.3444	1.9011	-0.4433
11	10	HDR BIAS	2.0093	2.4799	0.4706
12	10	HDR BIAS	1.9241	1.8833	-0.0408
13	10	HDR BIAS	2.4115	2.2988	-0.1127
14	10	HDR BIAS	2.0352	1.9104	-0.1248
15	10	HDR BIAS	2.115	2.4516	0.3366
16	10	HDR UNBIAS	2.3498	2.0512	-0.2986
17	10	HDR UNBIAS	2.1383	2.5098	0.3715
18	10	HDR UNBIAS	1.8789	1.8739	-0.005
19	10	HDR UNBIAS	2.401	2.2821	-0.1189
20	10	HDR UNBIAS	1.8023	2.0979	0.2956
31	30	HDR BIAS	2.2594	2.3729	0.1135
32	30	HDR BIAS	2.253	1.9005	-0.3525
33	30	HDR BIAS	1.9906	2.3917	0.4011
34	30	HDR BIAS	2.3446	2.246	-0.0986
35	30	HDR BIAS	2.028	2.4089	0.3809
36	30	HDR UNBIAS	1.8857	1.8131	-0.0726
37	30	HDR UNBIAS	2.3017	2.2609	-0.0408
38	30	HDR UNBIAS	1.9507	1.9735	0.0228
39	30	HDR UNBIAS	2.114	2.2541	0.1401
40	30	HDR UNBIAS	2.2268	1.9563	-0.2705
41	50	HDR BIAS	1.8039	2.2164	0.4125
42	50	HDR BIAS	1.9796	1.8757	-0.1039
43	50	HDR BIAS	2.1312	2.123	-0.0082
44	50	HDR BIAS	2.0457	2.052	0.0063
45	50	HDR BIAS	2.0464	2.4635	0.4171
46	50	HDR UNBIAS	2.3445	1.9668	-0.3777
47	50	HDR UNBIAS	1.8205	2.4702	0.6497
48	50	HDR UNBIAS	1.9377	1.9515	0.0138
49	50	HDR UNBIAS	2.2536	2.2278	-0.0258
50	50	HDR UNBIAS	2.0289	1.8131	-0.2158
51	100	HDR BIAS	2.0324	2.4407	0.4083
52	100	HDR BIAS	2.3751	1.8489	-0.5262
53	100	HDR BIAS	1.926	2.3923	0.4663
54	100	HDR BIAS	1.9967	2.0328	0.0361
55	100	HDR BIAS	2.4055	2.3105	-0.095
56	100	HDR UNBIAS	2.0474	2.0095	-0.0379
57	100	HDR UNBIAS	2.0015	2.3255	0.324
58	100	HDR UNBIAS	2.3369	1.9873	-0.3496
59	100	HDR UNBIAS	2.0037	2.1871	0.1834
60	100	HDR UNBIAS	1.9021	1.9228	0.0207
91	0	CORRELATION	2.1314	2.2638	0.1324
92	0	CORRELATION	1.8529	1.9088	0.0559
93	0	CORRELATION	2.426	2.4972	0.0712
94	0	CORRELATION	1.8385	1.8854	0.0469

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8385	2.0622	2.426	0.27748	1.8854	2.1388	2.4972	0.29506	0.0469	0.0766	0.1324	0.038529
3	1.8415	2.1063	2.4687	0.21365	1.9011	2.1478	2.4128	0.20406	-0.5024	0.04143	0.4581	0.32691
10	1.8023	2.1065	2.4115	0.21913	1.8739	2.1839	2.5098	0.25268	-0.2986	0.07735	0.4706	0.26533
30	1.8857	2.1355	2.3446	0.16276	1.8131	2.1578	2.4089	0.22393	-0.3525	0.02234	0.4011	0.24678
50	1.8039	2.0392	2.3445	0.17156	1.8131	2.116	2.4702	0.22895	-0.3777	0.0768	0.6497	0.31767
100	1.9021	2.1027	2.4055	0.19191	1.8489	2.1457	2.4407	0.21166	-0.5262	0.04301	0.4663	0.31895

Device Test: 20.86 FREQ|DETECTION/RT/14/14/0/0/5/100kHz//@T_INT_CLK_DET





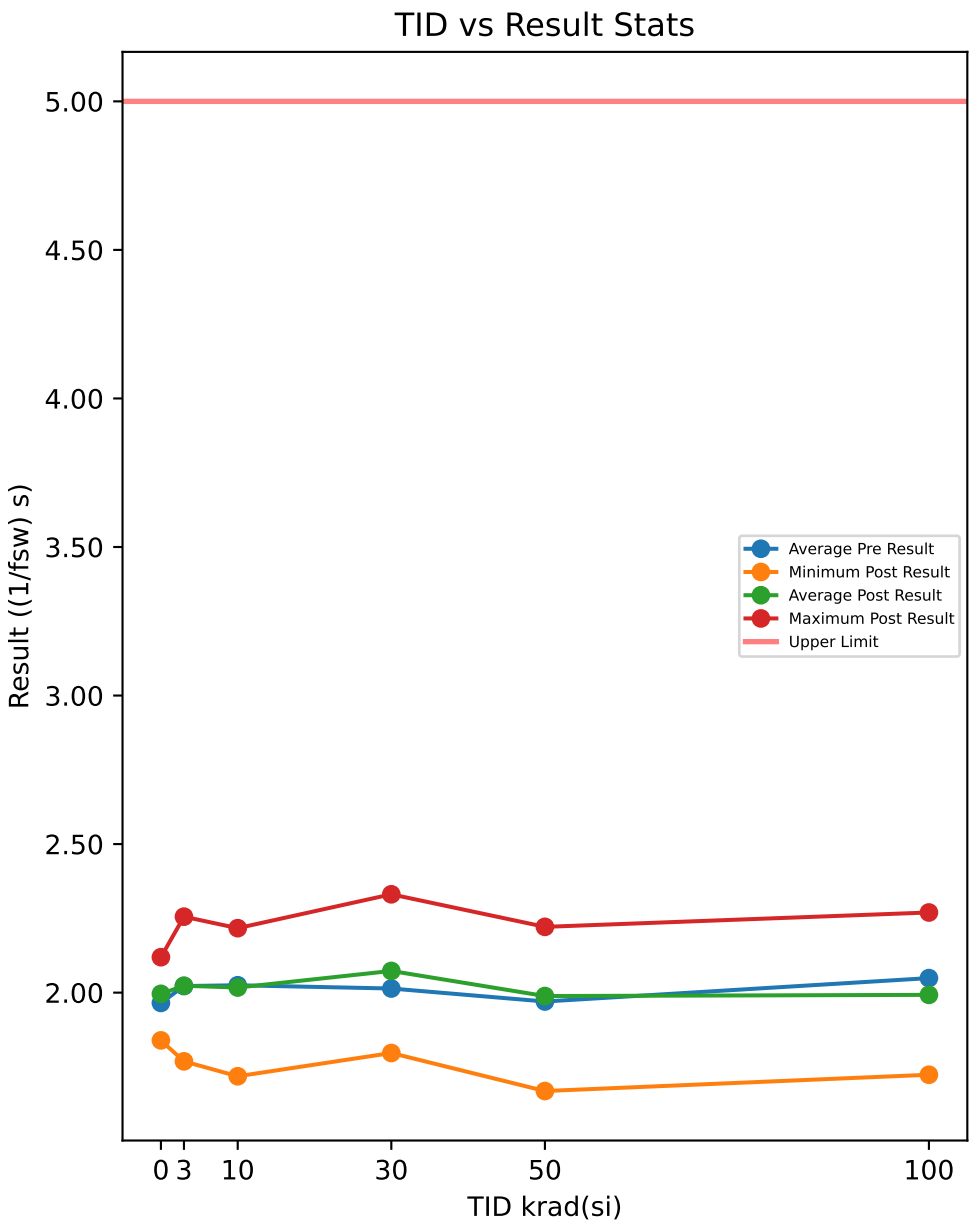
Test Results (Upper Limit = 5.0 ((1/fsw) s))

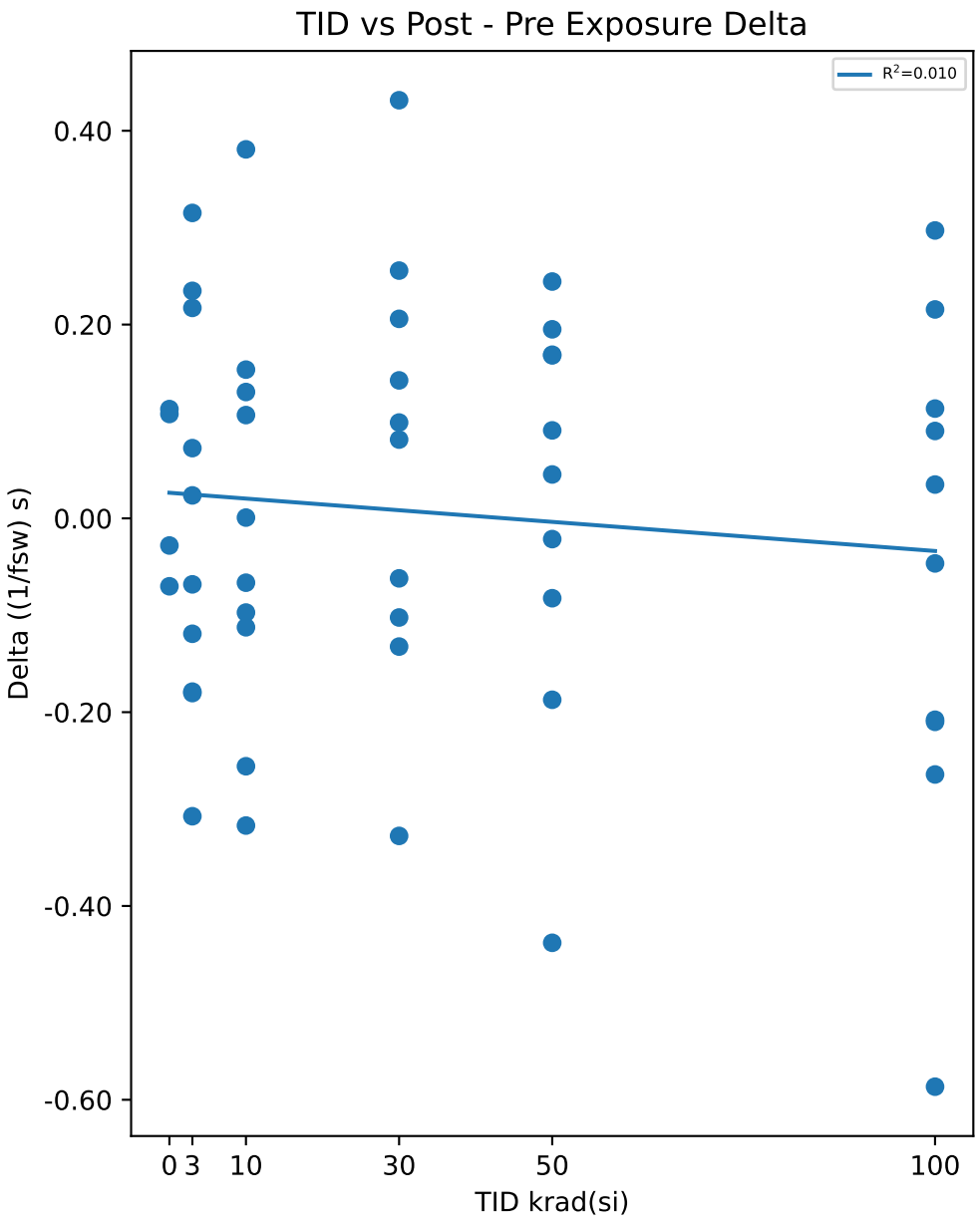
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.3208	2.1853	-0.1355
2	3	HDR BIAS	2.0555	1.9933	-0.0622
3	3	HDR BIAS	1.7956	2.3437	0.5481
4	3	HDR BIAS	2.2872	2.0108	-0.2764
5	3	HDR BIAS	1.8563	2.299	0.4427
6	3	HDR UNBIAS	1.8638	1.8722	0.0084
7	3	HDR UNBIAS	2.411	2.4474	0.0364
8	3	HDR UNBIAS	1.9222	1.888	-0.0342
9	3	HDR UNBIAS	1.9757	2.3511	0.3754
10	3	HDR UNBIAS	2.3786	1.7945	-0.5841
11	10	HDR BIAS	1.9263	2.3415	0.4152
12	10	HDR BIAS	1.9549	1.7789	-0.176
13	10	HDR BIAS	2.2001	2.5837	0.3836
14	10	HDR BIAS	1.8392	1.9371	0.0979
15	10	HDR BIAS	1.9802	2.4824	0.5022
16	10	HDR UNBIAS	2.4297	2.0402	-0.3895
17	10	HDR UNBIAS	2.2014	2.2516	0.0502
18	10	HDR UNBIAS	1.8832	1.953	0.0698
19	10	HDR UNBIAS	2.5956	2.4299	-0.1657
20	10	HDR UNBIAS	2.089	1.8987	-0.1903
31	30	HDR BIAS	2.5325	2.4185	-0.114
32	30	HDR BIAS	2.1342	1.9514	-0.1828
33	30	HDR BIAS	2.0298	2.621	0.5912
34	30	HDR BIAS	2.3674	2.0043	-0.3631
35	30	HDR BIAS	1.9722	2.6271	0.6549
36	30	HDR UNBIAS	1.9928	2.0498	0.057
37	30	HDR UNBIAS	2.4007	2.4196	0.0189
38	30	HDR UNBIAS	1.9324	1.9752	0.0428
39	30	HDR UNBIAS	2.0604	2.5283	0.4679
40	30	HDR UNBIAS	2.2045	1.7552	-0.4493
41	50	HDR BIAS	2.011	2.1362	0.1252
42	50	HDR BIAS	2.0939	2.1544	0.0605
43	50	HDR BIAS	2.2233	2.3403	0.117
44	50	HDR BIAS	1.9933	1.9487	-0.0446
45	50	HDR BIAS	1.9033	2.4492	0.5459
46	50	HDR UNBIAS	2.4398	1.8851	-0.5547
47	50	HDR UNBIAS	1.877	2.399	0.522
48	50	HDR UNBIAS	2.0445	1.9389	-0.1056
49	50	HDR UNBIAS	2.4441	2.4082	-0.0359
50	50	HDR UNBIAS	1.9481	1.8293	-0.1188
51	100	HDR BIAS	1.8812	2.2919	0.4107
52	100	HDR BIAS	2.4138	2.0421	-0.3717
53	100	HDR BIAS	2.0584	2.5251	0.4667
54	100	HDR BIAS	2.0518	2.0241	-0.0277
55	100	HDR BIAS	2.4341	2.3907	-0.0434
56	100	HDR UNBIAS	2.0836	1.9178	-0.1658
57	100	HDR UNBIAS	1.8606	2.3334	0.4728
58	100	HDR UNBIAS	2.414	2.0597	-0.3543
59	100	HDR UNBIAS	1.9978	2.2953	0.2975
60	100	HDR UNBIAS	2.094	2.1685	0.0745
91	0	CORRELATION	1.9307	2.281	0.3503
92	0	CORRELATION	1.9169	1.9388	0.0219
93	0	CORRELATION	2.3889	2.6504	0.2615
94	0	CORRELATION	1.9428	1.9094	-0.0334

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9169	2.0448	2.3889	0.22963	1.9094	2.1949	2.6504	0.34737	-0.0334	0.15007	0.3503	0.18493
3	1.7956	2.0867	2.411	0.2388	1.7945	2.1185	2.4474	0.23478	-0.5841	0.03186	0.5481	0.34473
10	1.8392	2.11	2.5956	0.24818	1.7789	2.1697	2.5837	0.28227	-0.3895	0.05974	0.5022	0.29803
30	1.9324	2.1627	2.5325	0.20661	1.7552	2.235	2.6271	0.3201	-0.4493	0.07235	0.6549	0.3845
50	1.877	2.0978	2.4441	0.20627	1.8293	2.1489	2.4492	0.23868	-0.5547	0.0511	0.5459	0.31861
100	1.8606	2.1289	2.4341	0.2161	1.9178	2.2049	2.5251	0.19245	-0.3717	0.07593	0.4728	0.32322

Device Test: 20.88 FREQ|DETECTION/RT/12/12/0/0/5/200kHz//@T_INT_CLK_DET





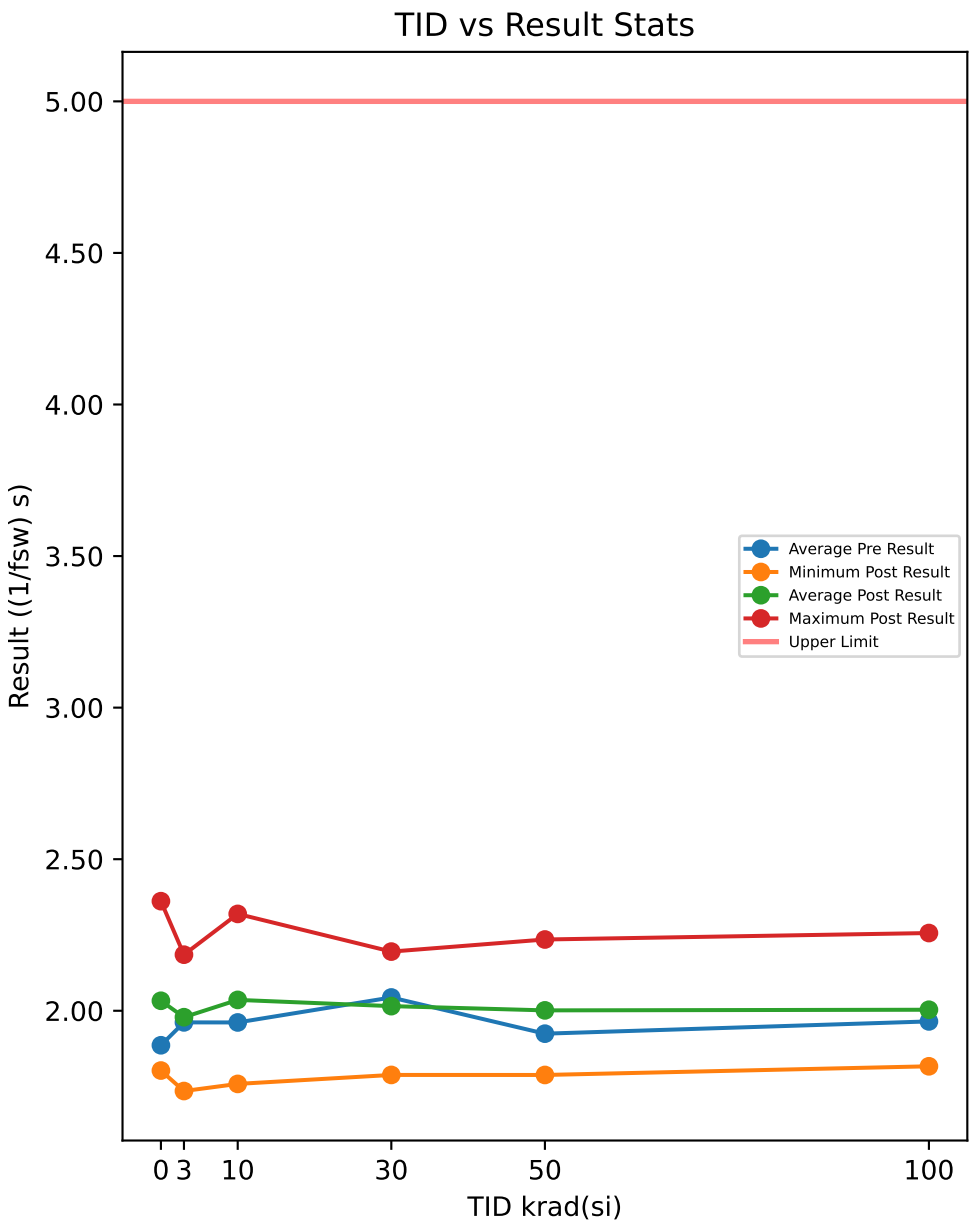
Test Results (Upper Limit = 5.0 ((1/fsw) s))

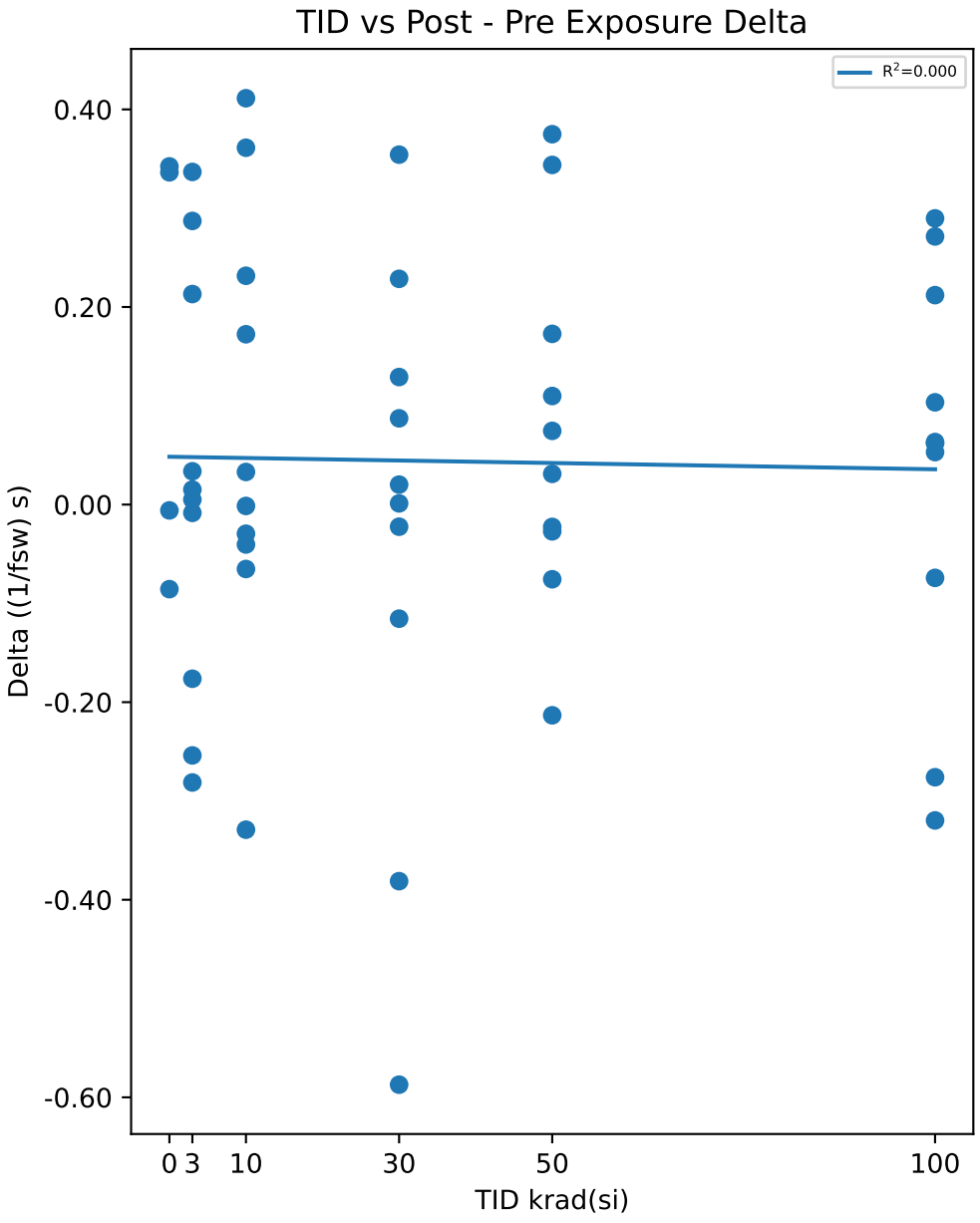
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.1295	2.202	0.0725
2	3	HDR BIAS	1.8645	1.8882	0.0237
3	3	HDR BIAS	1.9044	2.2196	0.3152
4	3	HDR BIAS	2.1056	1.9268	-0.1788
5	3	HDR BIAS	1.7669	2.0017	0.2348
6	3	HDR UNBIAS	1.9516	1.8835	-0.0681
7	3	HDR UNBIAS	2.3387	2.1584	-0.1803
8	3	HDR UNBIAS	1.8878	1.7687	-0.1191
9	3	HDR UNBIAS	2.0385	2.2557	0.2172
10	3	HDR UNBIAS	2.2345	1.9271	-0.3074
11	10	HDR BIAS	1.8362	2.217	0.3808
12	10	HDR BIAS	1.8878	1.9944	0.1066
13	10	HDR BIAS	2.1682	2.169	0.0008
14	10	HDR BIAS	1.8157	1.7185	-0.0972
15	10	HDR BIAS	2.0851	2.2155	0.1304
16	10	HDR UNBIAS	2.111	1.8552	-0.2558
17	10	HDR UNBIAS	2.0416	2.1951	0.1535
18	10	HDR UNBIAS	1.9117	1.8453	-0.0664
19	10	HDR UNBIAS	2.391	2.074	-0.317
20	10	HDR UNBIAS	2.0002	1.8878	-0.1124
31	30	HDR BIAS	2.1526	2.2339	0.0813
32	30	HDR BIAS	1.8528	2.0587	0.2059
33	30	HDR BIAS	1.9478	2.2035	0.2557
34	30	HDR BIAS	2.1121	1.9798	-0.1323
35	30	HDR BIAS	1.9012	2.0436	0.1424
36	30	HDR UNBIAS	1.9616	1.8593	-0.1023
37	30	HDR UNBIAS	2.2191	2.1572	-0.0619
38	30	HDR UNBIAS	1.9674	2.0663	0.0989
39	30	HDR UNBIAS	1.8995	2.331	0.4315
40	30	HDR UNBIAS	2.1245	1.7968	-0.3277
41	50	HDR BIAS	1.9167	2.0856	0.1689
42	50	HDR BIAS	1.9414	1.92	-0.0214
43	50	HDR BIAS	2.0263	2.2214	0.1951
44	50	HDR BIAS	1.9775	1.7903	-0.1872
45	50	HDR BIAS	1.9586	2.0494	0.0908
46	50	HDR UNBIAS	2.1068	1.6688	-0.438
47	50	HDR UNBIAS	1.9372	2.1054	0.1682
48	50	HDR UNBIAS	1.7186	1.963	0.2444
49	50	HDR UNBIAS	2.2447	2.1623	-0.0824
50	50	HDR UNBIAS	1.8738	1.9191	0.0453
51	100	HDR BIAS	1.9775	2.0677	0.0902
52	100	HDR BIAS	2.114	1.9062	-0.2078
53	100	HDR BIAS	1.9028	2.1999	0.2971
54	100	HDR BIAS	1.9879	1.7236	-0.2643
55	100	HDR BIAS	2.4798	2.2698	-0.21
56	100	HDR UNBIAS	1.805	1.8399	0.0349
57	100	HDR UNBIAS	1.9954	2.1087	0.1133
58	100	HDR UNBIAS	2.3946	1.8081	-0.5865
59	100	HDR UNBIAS	1.8347	2.0503	0.2156
60	100	HDR UNBIAS	1.9974	1.9509	-0.0465
91	0	CORRELATION	1.9778	2.0855	0.1077
92	0	CORRELATION	1.827	1.9398	0.1128
93	0	CORRELATION	2.1894	2.1193	-0.0701
94	0	CORRELATION	1.8673	1.8393	-0.028

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.827	1.9654	2.1894	0.16239	1.8393	1.996	2.1193	0.13029	-0.0701	0.0306	0.1128	0.093587
3	1.7669	2.0222	2.3387	0.1798	1.7687	2.0232	2.2557	0.17139	-0.3074	0.00097	0.3152	0.2069
10	1.8157	2.0248	2.391	0.17559	1.7185	2.0172	2.217	0.1824	-0.317	-0.00767	0.3808	0.20784
30	1.8528	2.0139	2.2191	0.12659	1.7968	2.073	2.331	0.16611	-0.3277	0.05915	0.4315	0.21981
50	1.7186	1.9702	2.2447	0.13933	1.6688	1.9885	2.2214	0.17091	-0.438	0.01837	0.2444	0.20967
100	1.805	2.0489	2.4798	0.22372	1.7236	1.9925	2.2698	0.17676	-0.5865	-0.0564	0.2971	0.26424

Device Test: 20.90 FREQ|DETECTION/RT/14/14/0/0/5/200kHz//@T_INT_CLK_DET





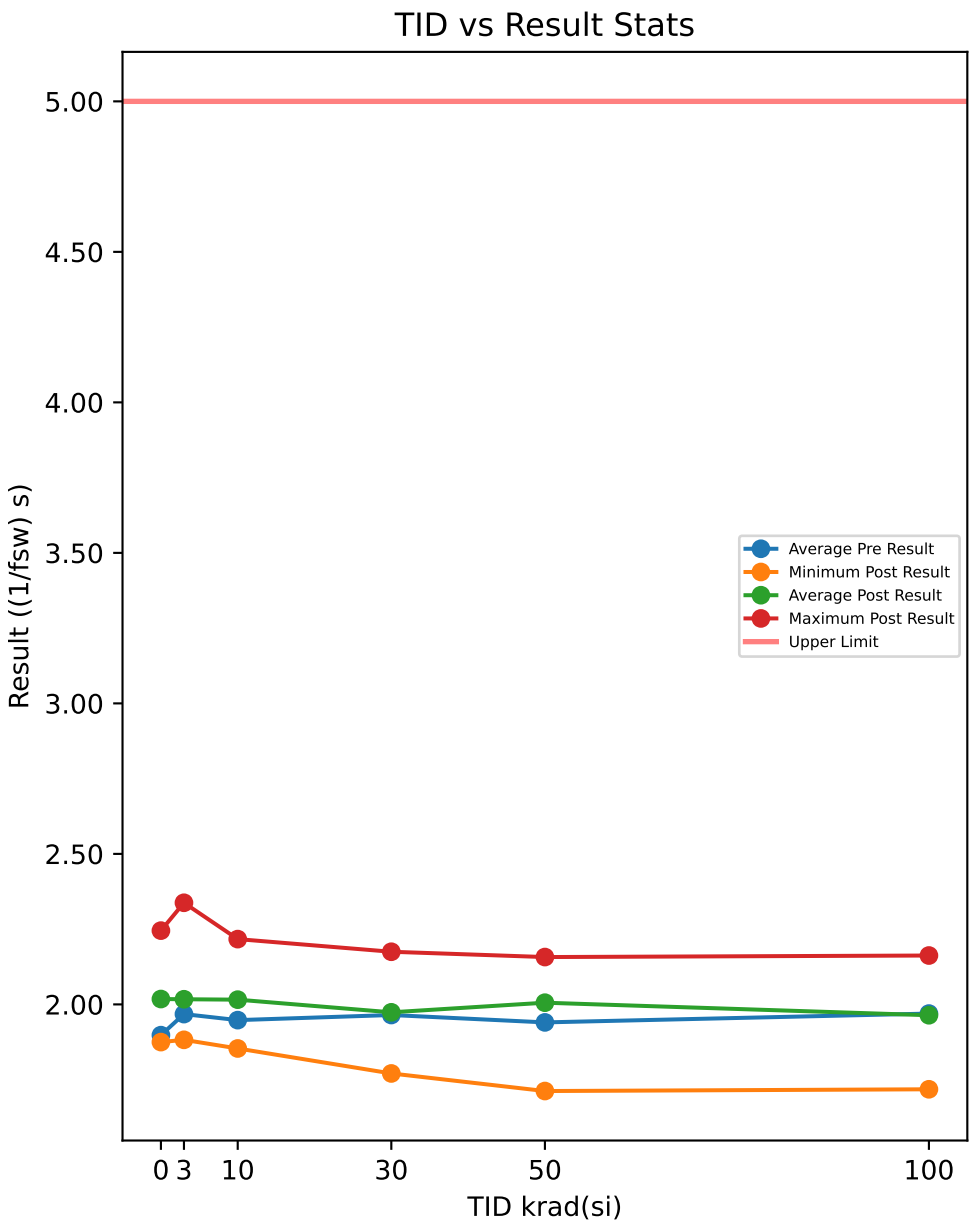
Test Results (Upper Limit = 5.0 ((1/fsw) s))

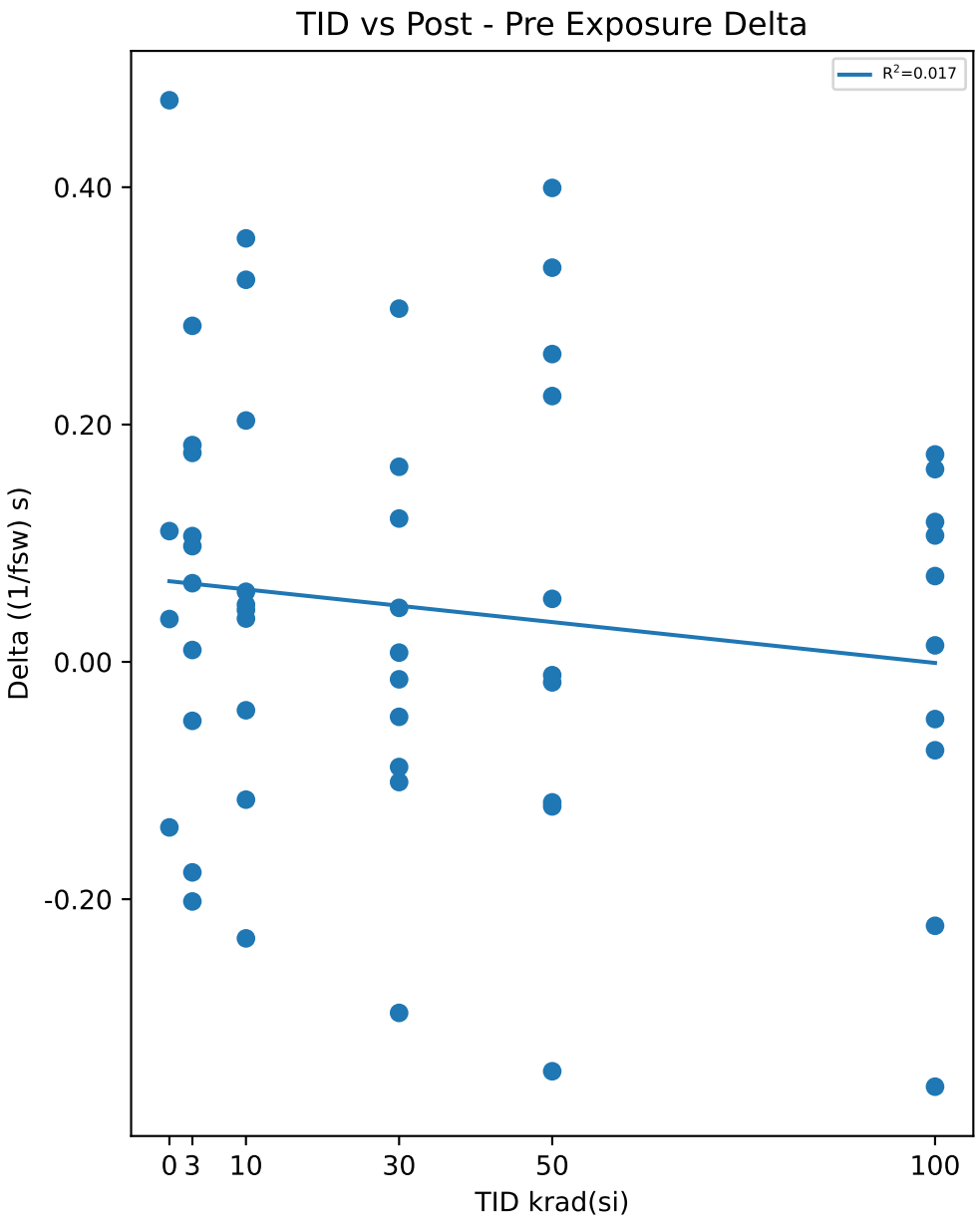
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.1984	2.0221	-0.1763
2	3	HDR BIAS	1.9153	1.9069	-0.0084
3	3	HDR BIAS	1.8078	2.1445	0.3367
4	3	HDR BIAS	2.1184	1.8371	-0.2813
5	3	HDR BIAS	1.8712	2.1583	0.2871
6	3	HDR UNBIAS	1.7015	1.7352	0.0337
7	3	HDR UNBIAS	2.1799	2.185	0.0051
8	3	HDR UNBIAS	1.8347	1.8499	0.0152
9	3	HDR UNBIAS	1.8665	2.0796	0.2131
10	3	HDR UNBIAS	2.1231	1.8692	-0.2539
11	10	HDR BIAS	1.7006	2.1119	0.4113
12	10	HDR BIAS	1.7307	1.9031	0.1724
13	10	HDR BIAS	2.2559	2.1907	-0.0652
14	10	HDR BIAS	1.7601	1.7587	-0.0014
15	10	HDR BIAS	2.0017	2.2333	0.2316
16	10	HDR UNBIAS	2.3359	2.0068	-0.3291
17	10	HDR UNBIAS	1.9583	2.3195	0.3612
18	10	HDR UNBIAS	1.9019	1.8615	-0.0404
19	10	HDR UNBIAS	2.1349	2.1679	0.033
20	10	HDR UNBIAS	1.8346	1.8051	-0.0295
31	30	HDR BIAS	2.167	2.1872	0.0202
32	30	HDR BIAS	1.9365	1.9141	-0.0224
33	30	HDR BIAS	1.841	2.1952	0.3542
34	30	HDR BIAS	2.4851	1.8979	-0.5872
35	30	HDR BIAS	1.9258	2.1543	0.2285
36	30	HDR UNBIAS	1.8957	1.8969	0.0012
37	30	HDR UNBIAS	2.2016	2.0861	-0.1155
38	30	HDR UNBIAS	1.7303	1.8594	0.1291
39	30	HDR UNBIAS	2.0862	2.1735	0.0873
40	30	HDR UNBIAS	2.1695	1.7883	-0.3812
41	50	HDR BIAS	1.9267	2.0013	0.0746
42	50	HDR BIAS	1.8153	1.7882	-0.0271
43	50	HDR BIAS	1.984	2.0939	0.1099
44	50	HDR BIAS	1.9253	1.8497	-0.0756
45	50	HDR BIAS	1.8602	2.2351	0.3749
46	50	HDR UNBIAS	2.1469	1.9336	-0.2133
47	50	HDR UNBIAS	1.88	2.2238	0.3438
48	50	HDR UNBIAS	1.7057	1.8785	0.1728
49	50	HDR UNBIAS	2.0774	2.1085	0.0311
50	50	HDR UNBIAS	1.9228	1.9002	-0.0226
51	100	HDR BIAS	1.874	2.086	0.212
52	100	HDR BIAS	2.1459	1.8262	-0.3197
53	100	HDR BIAS	1.854	2.1437	0.2897
54	100	HDR BIAS	1.9209	1.8467	-0.0742
55	100	HDR BIAS	2.1529	2.2564	0.1035
56	100	HDR UNBIAS	1.7757	1.8288	0.0531
57	100	HDR UNBIAS	2.0696	2.1329	0.0633
58	100	HDR UNBIAS	2.1531	1.8771	-0.276
59	100	HDR UNBIAS	1.9477	2.2191	0.2714
60	100	HDR UNBIAS	1.7549	1.8168	0.0619
91	0	CORRELATION	1.7507	2.093	0.3423
92	0	CORRELATION	1.8087	1.8028	-0.0059
93	0	CORRELATION	2.0252	2.3615	0.3363
94	0	CORRELATION	1.9601	1.8745	-0.0856

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7507	1.8862	2.0252	0.128	1.8028	2.033	2.3615	0.25141	-0.0856	0.14678	0.3423	0.22469
3	1.7015	1.9617	2.1984	0.17675	1.7352	1.9788	2.185	0.15897	-0.2813	0.0171	0.3367	0.21459
10	1.7006	1.9615	2.3359	0.22113	1.7587	2.0358	2.3195	0.19595	-0.3291	0.07439	0.4113	0.22206
30	1.7303	2.0439	2.4851	0.22091	1.7883	2.0153	2.1952	0.15817	-0.5872	-0.02858	0.3542	0.27852
50	1.7057	1.9244	2.1469	0.12574	1.7882	2.0013	2.2351	0.15724	-0.2133	0.07685	0.3749	0.18276
100	1.7549	1.9649	2.1531	0.15534	1.8168	2.0034	2.2564	0.17982	-0.3197	0.0385	0.2897	0.20896

Device Test: 20.92 FREQ|DETECTION/RT/12/12/0/0/5/500kHz//@T_INT_CLK_DET





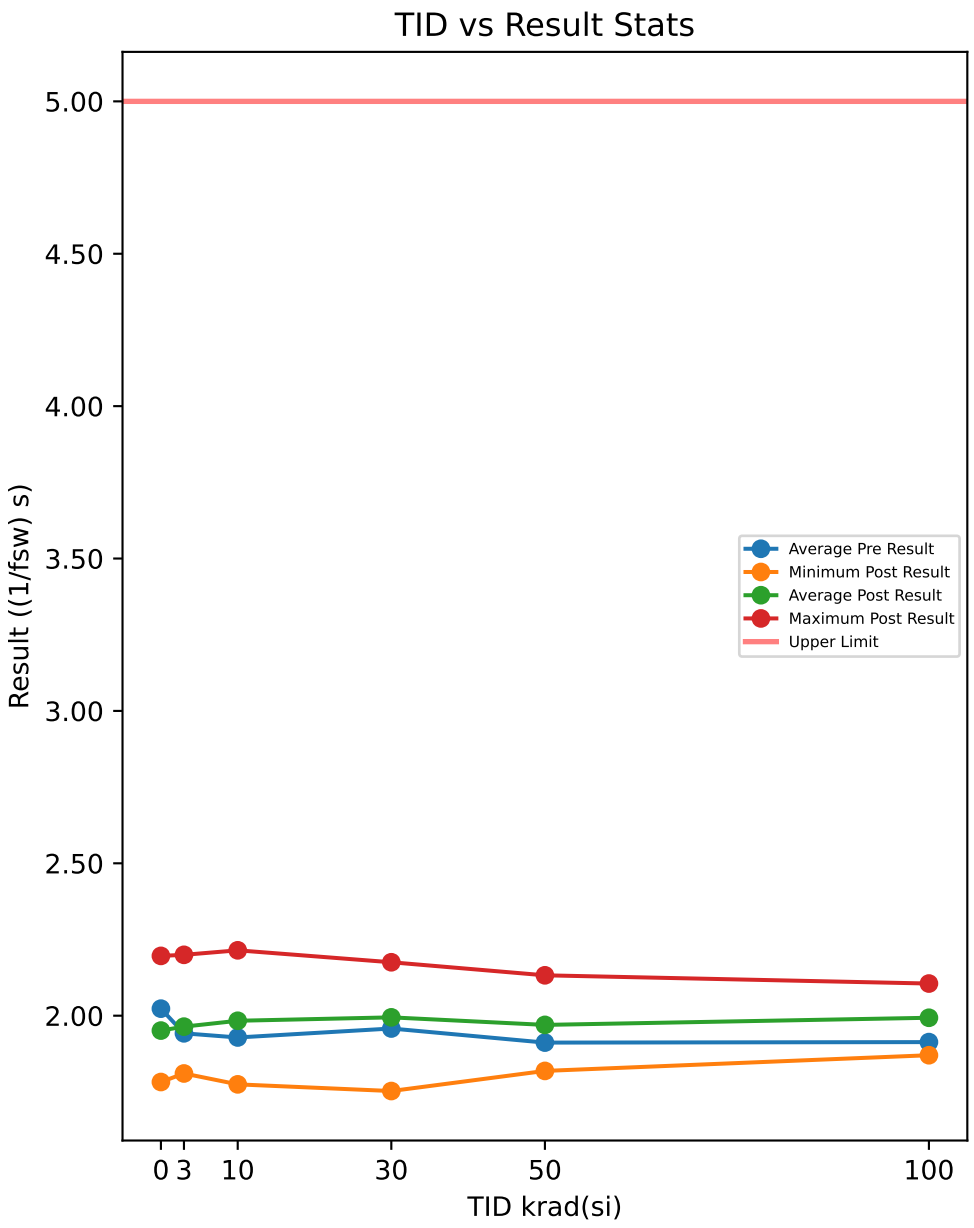
Test Results (Upper Limit = 5.0 ((1/fsw) s))

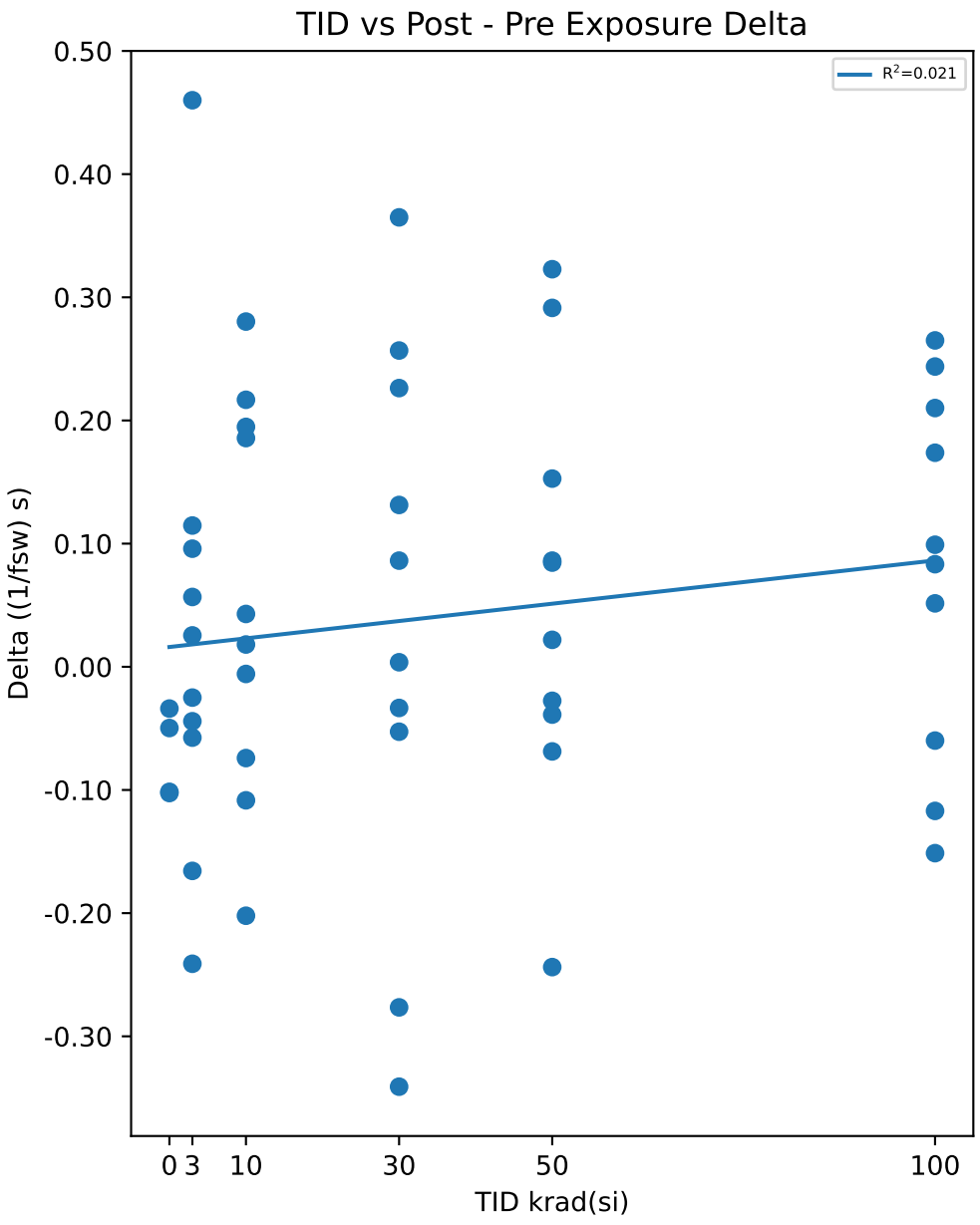
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.0505	2.1168	0.0663
2	3	HDR BIAS	1.9947	1.945	-0.0497
3	3	HDR BIAS	1.8854	2.0615	0.1761
4	3	HDR BIAS	2.0914	1.8895	-0.2019
5	3	HDR BIAS	1.8383	1.9358	0.0975
6	3	HDR UNBIAS	1.8723	1.8823	0.01
7	3	HDR UNBIAS	2.1549	2.3376	0.1827
8	3	HDR UNBIAS	1.8361	1.9421	0.106
9	3	HDR UNBIAS	1.8031	2.0863	0.2832
10	3	HDR UNBIAS	2.1515	1.9741	-0.1774
11	10	HDR BIAS	1.9483	2.0074	0.0591
12	10	HDR BIAS	1.8537	1.8902	0.0365
13	10	HDR BIAS	2.1319	2.0911	-0.0408
14	10	HDR BIAS	1.8054	1.8536	0.0482
15	10	HDR BIAS	1.8639	2.1859	0.322
16	10	HDR UNBIAS	2.0754	1.9593	-0.1161
17	10	HDR UNBIAS	1.86	2.2169	0.3569
18	10	HDR UNBIAS	1.8381	2.0415	0.2034
19	10	HDR UNBIAS	2.205	1.972	-0.233
20	10	HDR UNBIAS	1.8958	1.9396	0.0438
31	30	HDR BIAS	2.0647	2.05	-0.0147
32	30	HDR BIAS	1.8485	1.894	0.0455
33	30	HDR BIAS	2.0088	2.0166	0.0078
34	30	HDR BIAS	1.9982	1.9096	-0.0886
35	30	HDR BIAS	1.9396	2.0604	0.1208
36	30	HDR UNBIAS	1.9518	1.9055	-0.0463
37	30	HDR UNBIAS	2.0105	2.1749	0.1644
38	30	HDR UNBIAS	1.9191	1.8178	-0.1013
39	30	HDR UNBIAS	1.84	2.1377	0.2977
40	30	HDR UNBIAS	2.0664	1.7706	-0.2958
41	50	HDR BIAS	1.8979	2.1573	0.2594
42	50	HDR BIAS	1.8624	1.8451	-0.0173
43	50	HDR BIAS	2.0702	2.1233	0.0531
44	50	HDR BIAS	1.979	1.9678	-0.0112
45	50	HDR BIAS	1.9206	2.1446	0.224
46	50	HDR UNBIAS	2.0572	1.7122	-0.345
47	50	HDR UNBIAS	1.7164	2.1158	0.3994
48	50	HDR UNBIAS	1.7019	2.0341	0.3322
49	50	HDR UNBIAS	2.2632	2.1448	-0.1184
50	50	HDR UNBIAS	1.9334	1.8116	-0.1218
51	100	HDR BIAS	1.9741	2.1365	0.1624
52	100	HDR BIAS	2.1268	1.9044	-0.2224
53	100	HDR BIAS	1.8828	1.9893	0.1065
54	100	HDR BIAS	1.8912	1.8167	-0.0745
55	100	HDR BIAS	2.0939	2.1078	0.0139
56	100	HDR UNBIAS	1.7762	1.8941	0.1179
57	100	HDR UNBIAS	2.0901	2.1624	0.0723
58	100	HDR UNBIAS	2.076	1.718	-0.358
59	100	HDR UNBIAS	1.8594	2.0342	0.1748
60	100	HDR UNBIAS	1.9249	1.8767	-0.0482
91	0	CORRELATION	1.7718	2.2451	0.4733
92	0	CORRELATION	1.8387	1.8748	0.0361
93	0	CORRELATION	2.1582	2.0187	-0.1395
94	0	CORRELATION	1.8226	1.9328	0.1102

Test Statistics ((1/fsw) s)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7718	1.8978	2.1582	0.17591	1.8748	2.0179	2.2451	0.16262	-0.1395	0.12002	0.4733	0.25774
3	1.8031	1.9678	2.1549	0.13693	1.8823	2.0171	2.3376	0.13871	-0.2019	0.04928	0.2832	0.15644
10	1.8054	1.9477	2.205	0.13942	1.8536	2.0157	2.2169	0.11962	-0.233	0.068	0.3569	0.184
30	1.84	1.9648	2.0664	0.079886	1.7706	1.9737	2.1749	0.13467	-0.2958	0.00895	0.2977	0.16314
50	1.7019	1.9402	2.2632	0.16719	1.7122	2.0057	2.1573	0.1631	-0.345	0.06544	0.3994	0.23467
100	1.7762	1.9695	2.1268	0.12076	1.718	1.964	2.1624	0.14668	-0.358	-0.00553	0.1748	0.1741

Device Test: 20.94 FREQ|DETECTION/RT/14/14/0/0/5/500kHz//@T_INT_CLK_DET





Test Results (Upper Limit = 5.0 ((1/fsw) s))

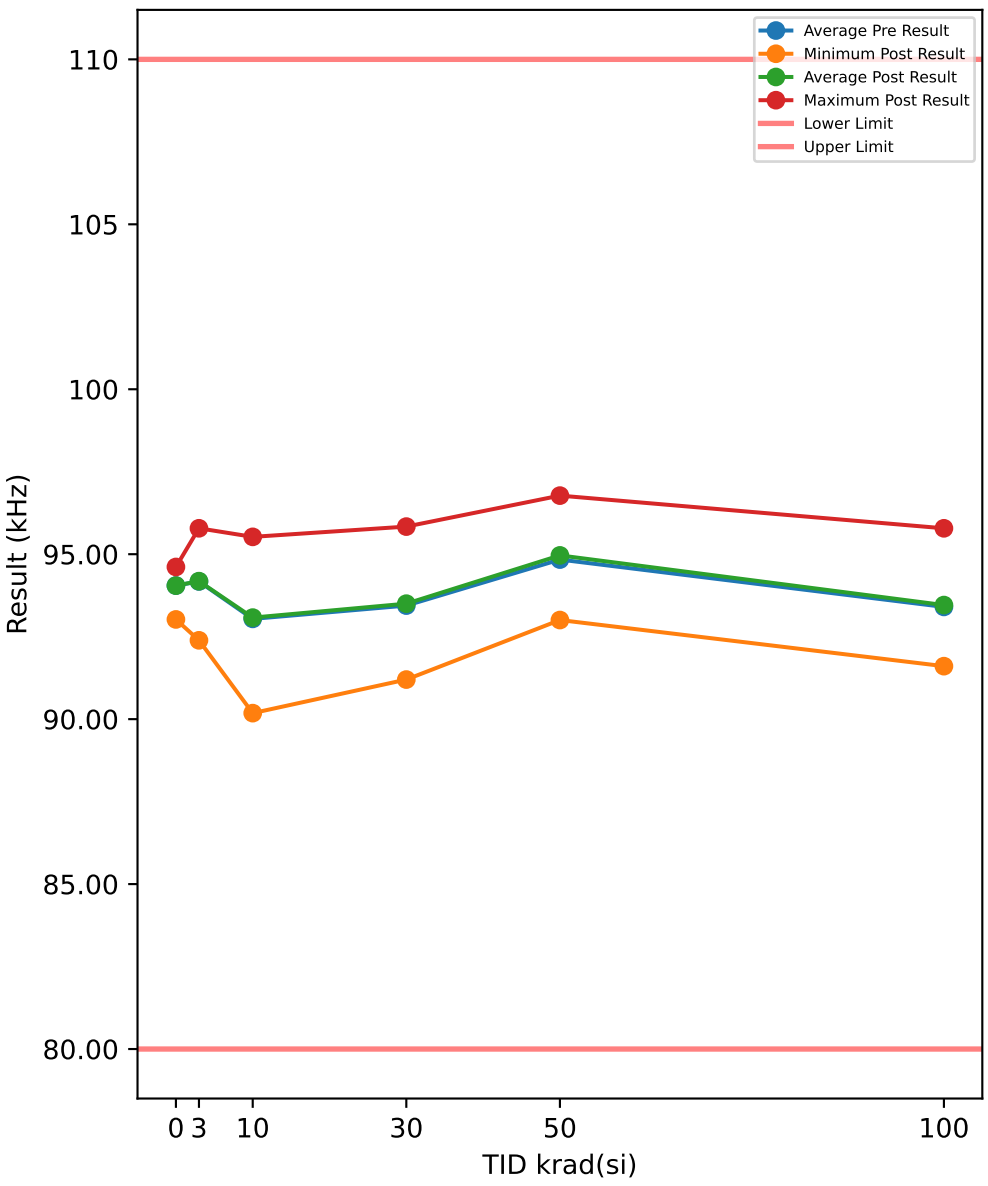
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.9912	1.9337	-0.0575
2	3	HDR BIAS	1.8333	1.948	0.1147
3	3	HDR BIAS	1.7397	2.1997	0.46
4	3	HDR BIAS	2.0515	1.8104	-0.2411
5	3	HDR BIAS	2.0378	2.0128	-0.025
6	3	HDR UNBIAS	1.8628	1.8883	0.0255
7	3	HDR UNBIAS	2.0734	2.0292	-0.0442
8	3	HDR UNBIAS	1.8826	1.9785	0.0959
9	3	HDR UNBIAS	1.8451	1.9018	0.0567
10	3	HDR UNBIAS	2.104	1.9383	-0.1657
11	10	HDR BIAS	1.9342	2.2145	0.2803
12	10	HDR BIAS	1.9795	1.7774	-0.2021
13	10	HDR BIAS	2.0926	2.0185	-0.0741
14	10	HDR BIAS	1.8449	1.8878	0.0429
15	10	HDR BIAS	1.8442	2.061	0.2168
16	10	HDR UNBIAS	1.9433	1.8349	-0.1084
17	10	HDR UNBIAS	1.9919	2.1776	0.1857
18	10	HDR UNBIAS	1.7566	1.7747	0.0181
19	10	HDR UNBIAS	1.9584	2.1532	0.1948
20	10	HDR UNBIAS	1.9396	1.9338	-0.0058
31	30	HDR BIAS	2.1294	2.1331	0.0037
32	30	HDR BIAS	1.8702	1.8368	-0.0334
33	30	HDR BIAS	1.9086	2.1349	0.2263
34	30	HDR BIAS	2.1493	1.8728	-0.2765
35	30	HDR BIAS	1.9146	2.1714	0.2568
36	30	HDR UNBIAS	1.8881	1.8354	-0.0527
37	30	HDR UNBIAS	2.0891	2.1753	0.0862
38	30	HDR UNBIAS	1.7964	1.9278	0.1314
39	30	HDR UNBIAS	1.7402	2.1051	0.3649
40	30	HDR UNBIAS	2.0937	1.7528	-0.3409
41	50	HDR BIAS	1.7951	2.0865	0.2914
42	50	HDR BIAS	1.7969	1.8188	0.0219
43	50	HDR BIAS	2.1231	2.0544	-0.0687
44	50	HDR BIAS	1.8875	1.8487	-0.0388
45	50	HDR BIAS	1.8097	2.1325	0.3228
46	50	HDR UNBIAS	2.1103	1.8665	-0.2438
47	50	HDR UNBIAS	1.8638	1.9484	0.0846
48	50	HDR UNBIAS	1.8087	1.9615	0.1528
49	50	HDR UNBIAS	1.9581	2.0443	0.0862
50	50	HDR UNBIAS	1.9641	1.9365	-0.0276
51	100	HDR BIAS	1.8262	2.0912	0.265
52	100	HDR BIAS	1.9873	1.8703	-0.117
53	100	HDR BIAS	1.8526	2.0964	0.2438
54	100	HDR BIAS	1.786	1.8851	0.0991
55	100	HDR BIAS	2.2568	2.1055	-0.1513
56	100	HDR UNBIAS	1.8849	1.9364	0.0515
57	100	HDR UNBIAS	1.8908	2.0646	0.1738
58	100	HDR UNBIAS	1.9864	1.9265	-0.0599
59	100	HDR UNBIAS	1.8186	2.0287	0.2101
60	100	HDR UNBIAS	1.8439	1.9272	0.0833
91	0	CORRELATION	2.0684	2.0187	-0.0497
92	0	CORRELATION	1.8839	1.7824	-0.1015
93	0	CORRELATION	2.2301	2.1962	-0.0339
94	0	CORRELATION	1.9099	1.8074	-0.1025

Test Statistics ((1/fsw) s)

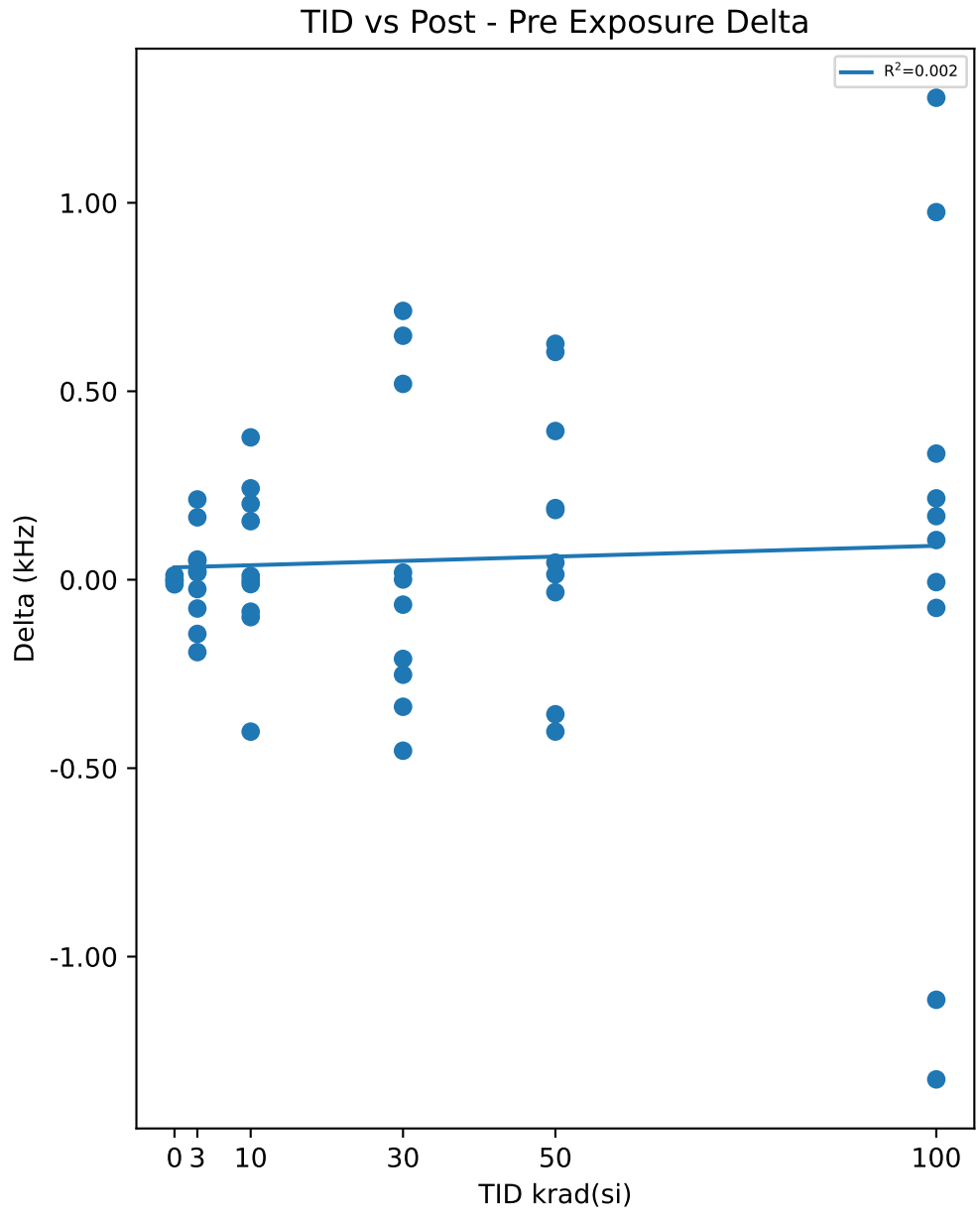
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8839	2.0231	2.2301	0.1603	1.7824	1.9512	2.1962	0.19472	-0.1025	-0.0719	-0.0339	0.035352
3	1.7397	1.9421	2.104	0.12429	1.8104	1.9641	2.1997	0.10404	-0.2411	0.02193	0.46	0.18988
10	1.7566	1.9285	2.0926	0.093371	1.7747	1.9833	2.2145	0.16561	-0.2021	0.05482	0.2803	0.15925
30	1.7402	1.958	2.1493	0.14608	1.7528	1.9945	2.1753	0.16432	-0.3409	0.03658	0.3649	0.22563
50	1.7951	1.9117	2.1231	0.12459	1.8188	1.9698	2.1325	0.10676	-0.2438	0.05808	0.3228	0.17004
100	1.786	1.9134	2.2568	0.138	1.8703	1.9932	2.1055	0.093122	-0.1513	0.07984	0.265	0.14901

Device Test: 20.97 LEVEL|FREQ/RT/8/8/0/0/5/100kHz//@FSW_EXT_RT_A

TID vs Result Stats



TID vs Post - Pre Exposure Delta



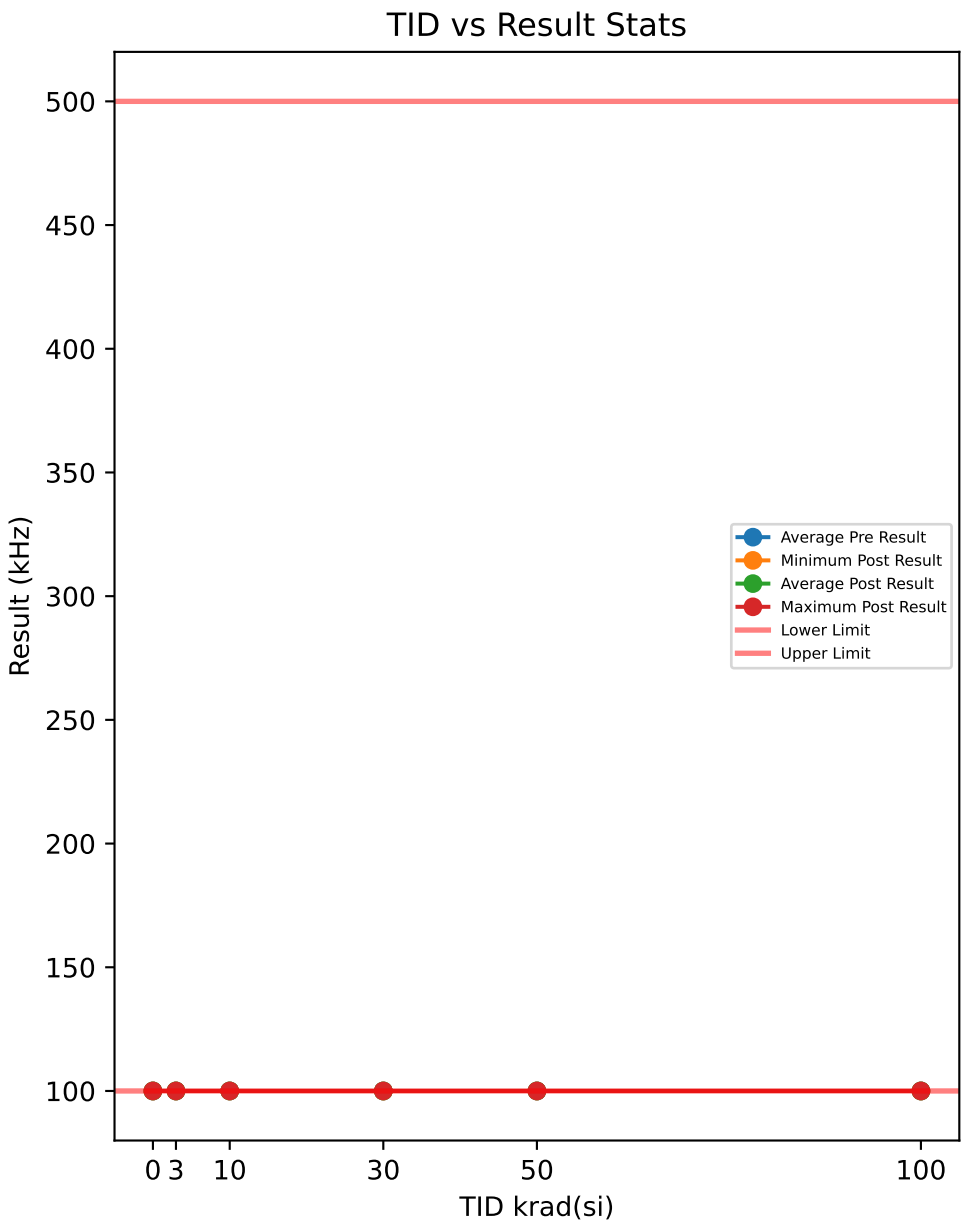
Test Results (Lower Limit = 80.0, Upper Limit = 110.0 (kHz))

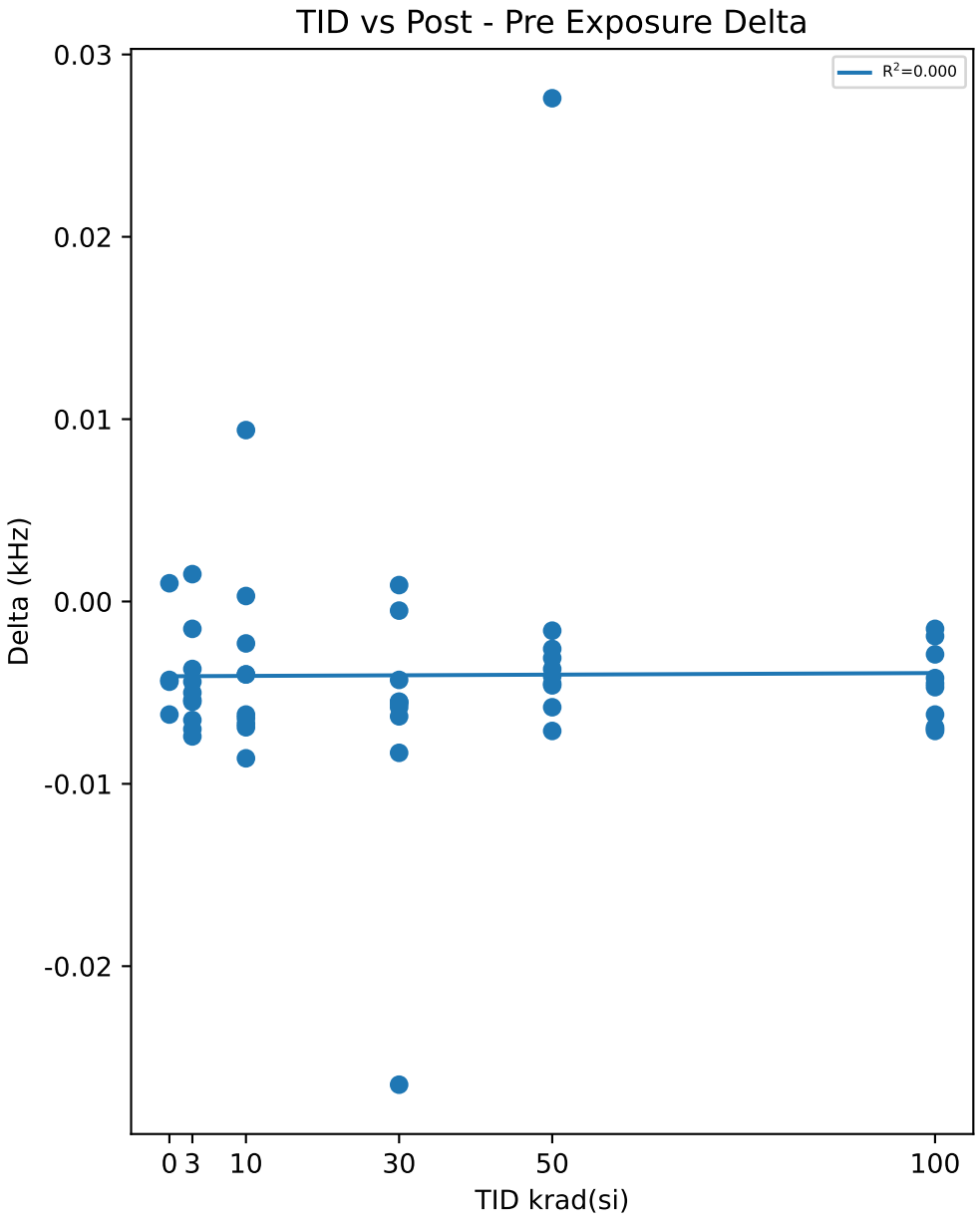
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	94.92	94.97	0.05
2	3	HDR BIAS	94.004	93.812	-0.1921
3	3	HDR BIAS	95.383	95.406	0.0229
4	3	HDR BIAS	94.145	94.311	0.1655
5	3	HDR BIAS	95.767	95.785	0.0189
6	3	HDR UNBIAS	93.856	93.712	-0.1438
7	3	HDR UNBIAS	92.466	92.389	-0.0764
8	3	HDR UNBIAS	94.07	94.045	-0.0249
9	3	HDR UNBIAS	94.178	94.391	0.213
10	3	HDR UNBIAS	92.948	93.001	0.0536
11	10	HDR BIAS	93.445	93.646	0.2014
12	10	HDR BIAS	93.241	93.618	0.3776
13	10	HDR BIAS	92.124	92.134	0.01
14	10	HDR BIAS	95.528	95.525	-0.0025
15	10	HDR BIAS	92.015	92.003	-0.0117
16	10	HDR UNBIAS	94.385	94.286	-0.0993
17	10	HDR UNBIAS	90.027	90.182	0.1553
18	10	HDR UNBIAS	93.661	93.258	-0.4031
19	10	HDR UNBIAS	91.473	91.716	0.2424
20	10	HDR UNBIAS	94.495	94.41	-0.0848
31	30	HDR BIAS	92.557	93.076	0.5196
32	30	HDR BIAS	92.4	92.334	-0.0662
33	30	HDR BIAS	91.653	91.2	-0.4537
34	30	HDR BIAS	93.14	92.93	-0.2101
35	30	HDR BIAS	93.551	93.552	0.0006
36	30	HDR UNBIAS	94.395	94.143	-0.2521
37	30	HDR UNBIAS	93.951	94.664	0.7132
38	30	HDR UNBIAS	94.218	94.237	0.0189
39	30	HDR UNBIAS	93.368	93.031	-0.3371
40	30	HDR UNBIAS	95.189	95.837	0.6473
41	50	HDR BIAS	96.743	96.386	-0.357
42	50	HDR BIAS	95.385	95.352	-0.0333
43	50	HDR BIAS	96.73	96.776	0.0455
44	50	HDR BIAS	92.803	93.198	0.3945
45	50	HDR BIAS	92.99	93.004	0.014
46	50	HDR UNBIAS	95.432	95.617	0.1849
47	50	HDR UNBIAS	93.709	94.313	0.6042
48	50	HDR UNBIAS	94.595	94.192	-0.4029
49	50	HDR UNBIAS	94.281	94.907	0.626
50	50	HDR UNBIAS	95.704	95.894	0.1901
51	100	HDR BIAS	95.616	95.785	0.1687
52	100	HDR BIAS	93.969	93.963	-0.0064
53	100	HDR BIAS	92.418	93.697	1.2787
54	100	HDR BIAS	92.278	92.383	0.1052
55	100	HDR BIAS	93.411	93.336	-0.0748
56	100	HDR UNBIAS	94.716	93.391	-1.3257
57	100	HDR UNBIAS	90.631	91.606	0.9752
58	100	HDR UNBIAS	92.53	92.745	0.2158
59	100	HDR UNBIAS	95.04	95.375	0.3346
60	100	HDR UNBIAS	93.413	92.299	-1.1145
91	0	CORRELATION	94.014	94.011	-0.0033
92	0	CORRELATION	94.544	94.544	0.0005
93	0	CORRELATION	93.011	93.022	0.0116
94	0	CORRELATION	94.625	94.613	-0.0123

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.011	94.049	94.625	0.74294	93.022	94.048	94.613	0.73453	-0.0123	-0.000875	0.0116	0.0098983
3	92.466	94.174	95.767	1.0066	92.389	94.182	95.785	1.04	-0.1921	0.00867	0.213	0.12574
10	90.027	93.039	95.528	1.6374	90.182	93.078	95.525	1.5691	-0.4031	0.03853	0.3776	0.21882
30	91.653	93.442	95.189	1.0541	91.2	93.5	95.837	1.2975	-0.4537	0.05804	0.7132	0.42109
50	92.803	94.837	96.743	1.4068	93.004	94.964	96.776	1.2794	-0.4029	0.1266	0.626	0.3521
100	90.631	93.402	95.616	1.5022	91.606	93.458	95.785	1.3274	-1.3257	0.05568	1.2787	0.79989

Device Test: 20.98 LEVEL|FREQ/SYNC/8/8/0/0/5/100kHz//@FREQ_SYNC_EXT_503X





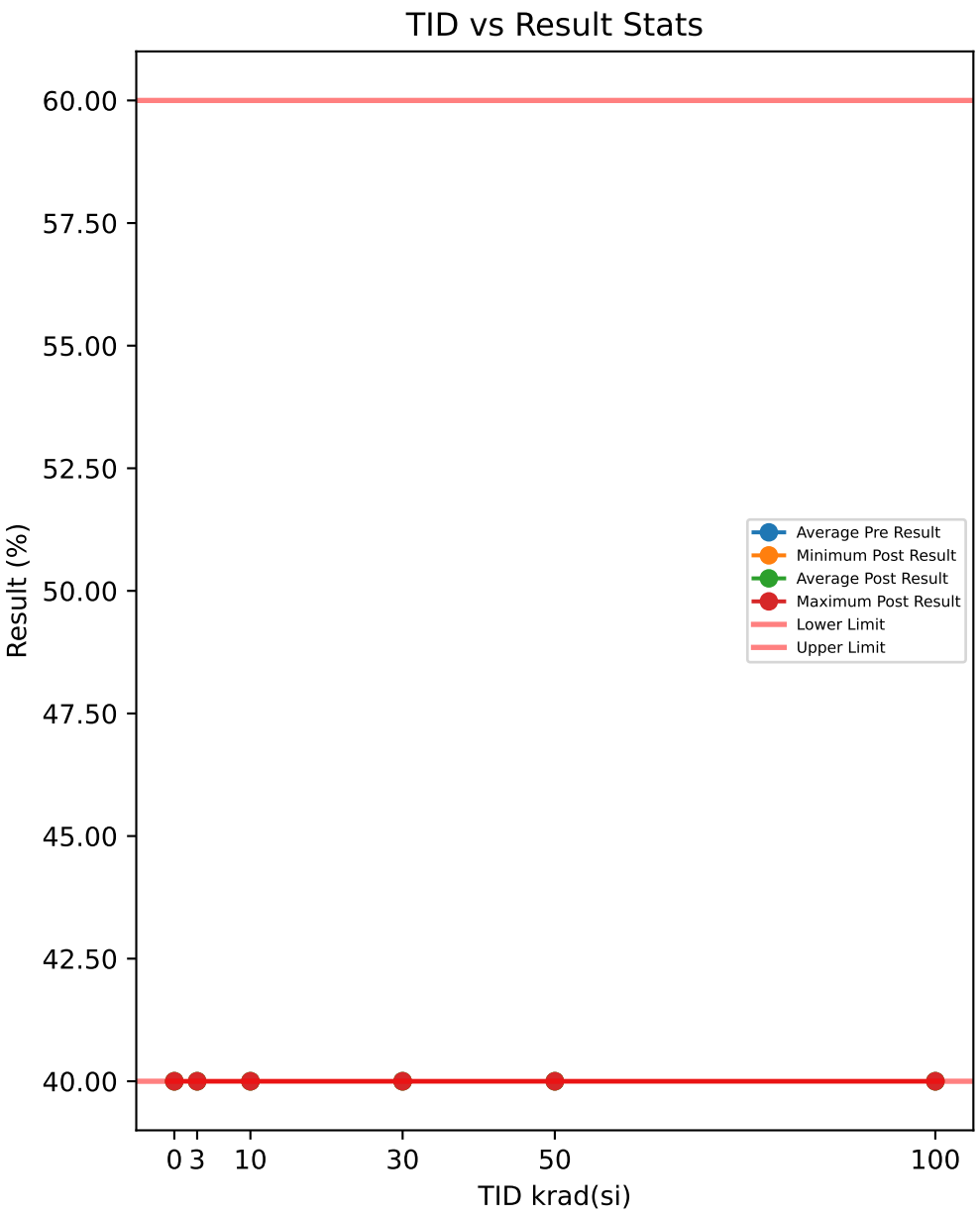
Test Results (Lower Limit = 100.0, Upper Limit = 500.0 (kHz))

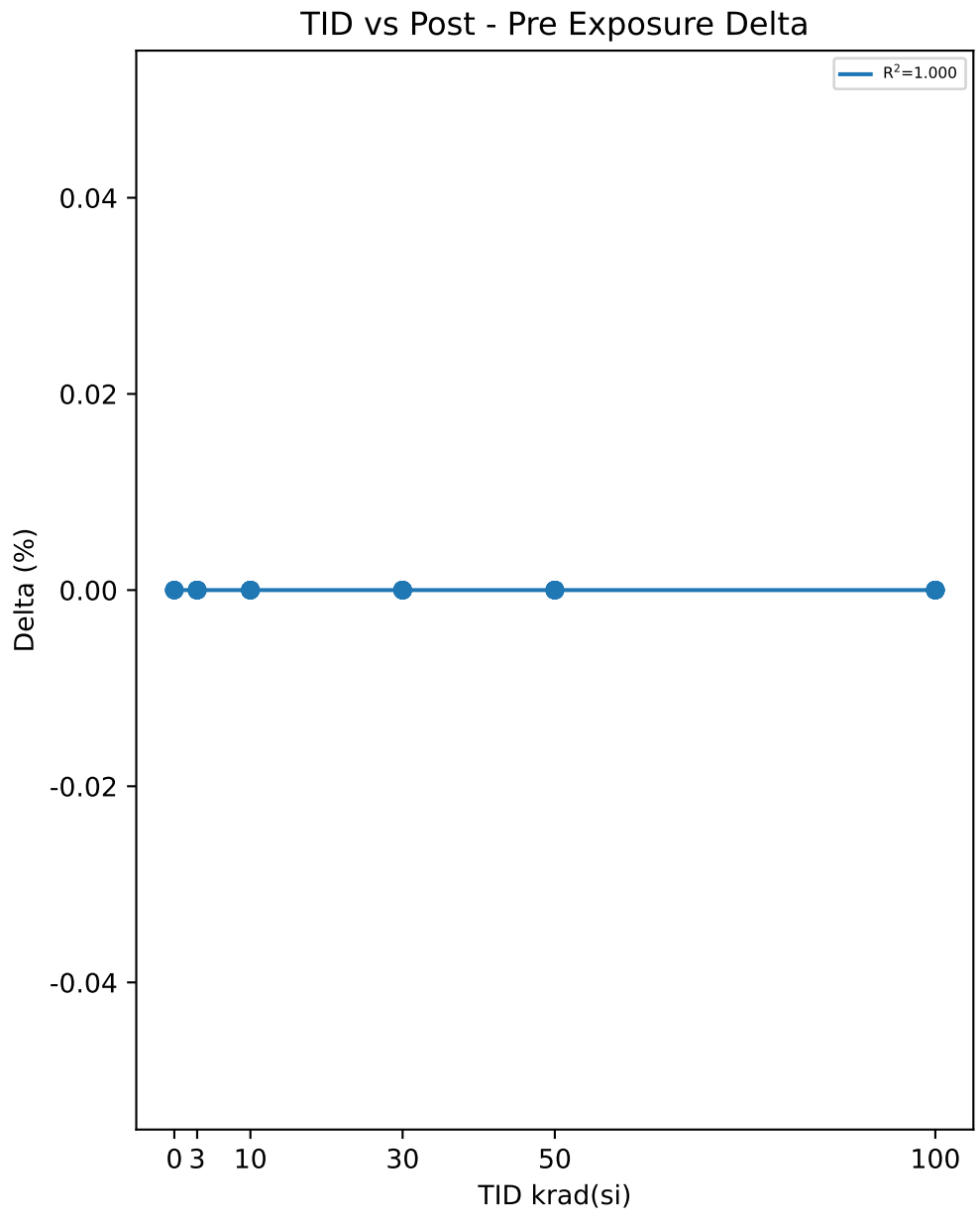
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	99.998	100	0.0015
2	3	HDR BIAS	99.999	99.994	-0.0054
3	3	HDR BIAS	99.998	99.994	-0.0037
4	3	HDR BIAS	99.999	99.994	-0.0044
5	3	HDR BIAS	100	99.999	-0.0015
6	3	HDR UNBIAS	99.999	99.994	-0.005
7	3	HDR UNBIAS	99.999	99.993	-0.0065
8	3	HDR UNBIAS	100	99.994	-0.007
9	3	HDR UNBIAS	100	99.994	-0.0055
10	3	HDR UNBIAS	100	99.993	-0.0074
11	10	HDR BIAS	99.999	99.993	-0.0062
12	10	HDR BIAS	99.998	99.994	-0.004
13	10	HDR BIAS	100	100	0.0003
14	10	HDR BIAS	100	99.995	-0.0067
15	10	HDR BIAS	100	99.993	-0.0069
16	10	HDR UNBIAS	100	99.994	-0.0064
17	10	HDR UNBIAS	99.999	99.997	-0.0023
18	10	HDR UNBIAS	99.985	99.995	0.0094
19	10	HDR UNBIAS	100	99.992	-0.0086
20	10	HDR UNBIAS	100	99.996	-0.004
31	30	HDR BIAS	99.998	99.994	-0.0043
32	30	HDR BIAS	100	99.995	-0.0056
33	30	HDR BIAS	99.998	99.999	0.0009
34	30	HDR BIAS	100	99.995	-0.0055
35	30	HDR BIAS	100	99.993	-0.0083
36	30	HDR UNBIAS	100	99.994	-0.0058
37	30	HDR UNBIAS	100	99.999	-0.0005
38	30	HDR UNBIAS	100	99.995	-0.0063
39	30	HDR UNBIAS	99.998	99.993	-0.0055
40	30	HDR UNBIAS	99.999	99.972	-0.0265
41	50	HDR BIAS	99.999	99.996	-0.0031
42	50	HDR BIAS	99.967	99.994	0.0276
43	50	HDR BIAS	99.999	99.994	-0.0045
44	50	HDR BIAS	99.999	99.996	-0.0037
45	50	HDR BIAS	100	99.996	-0.0041
46	50	HDR UNBIAS	100	99.995	-0.0046
47	50	HDR UNBIAS	99.999	99.992	-0.0071
48	50	HDR UNBIAS	99.999	99.996	-0.0026
49	50	HDR UNBIAS	99.998	99.996	-0.0016
50	50	HDR UNBIAS	100	99.995	-0.0058
51	100	HDR BIAS	99.998	99.994	-0.0042
52	100	HDR BIAS	100	99.994	-0.0062
53	100	HDR BIAS	99.999	99.998	-0.0015
54	100	HDR BIAS	100	99.993	-0.0071
55	100	HDR BIAS	100	99.994	-0.0069
56	100	HDR UNBIAS	99.999	99.996	-0.0029
57	100	HDR UNBIAS	100	99.999	-0.0019
58	100	HDR UNBIAS	100	99.995	-0.0047
59	100	HDR UNBIAS	100	99.994	-0.007
60	100	HDR UNBIAS	100	99.995	-0.0045
91	0	CORRELATION	99.999	100	0.001
92	0	CORRELATION	99.999	99.995	-0.0043
93	0	CORRELATION	99.998	99.994	-0.0044
94	0	CORRELATION	100	99.994	-0.0062

Test Statistics (kHz)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.998	99.999	100	0.00086023	99.994	99.996	100	0.0030923	-0.0062	-0.003475	0.001	0.0031085
3	99.998	99.999	100	0.0010857	99.993	99.995	100	0.0025134	-0.0074	-0.00449	0.0015	0.0027156
10	99.985	99.999	100	0.0046949	99.992	99.995	100	0.0022829	-0.0086	-0.00354	0.0094	0.0052311
30	99.998	100	100	0.0013088	99.972	99.993	99.999	0.0075986	-0.0265	-0.00674	0.0009	0.0074655
50	99.967	99.996	100	0.010317	99.992	99.995	99.996	0.0012709	-0.0071	-0.00095	0.0276	0.010152
100	99.998	100	100	0.00089075	99.993	99.995	99.999	0.0018226	-0.0071	-0.00469	-0.0015	0.0021016

Device Test: 20.99 PF|DCL_40/SYNC/8/8/0/0/5/100kHz//@DUTY_SYNC_EXT





Test Results (Lower Limit = 40.0, Upper Limit = 60.0 (%))

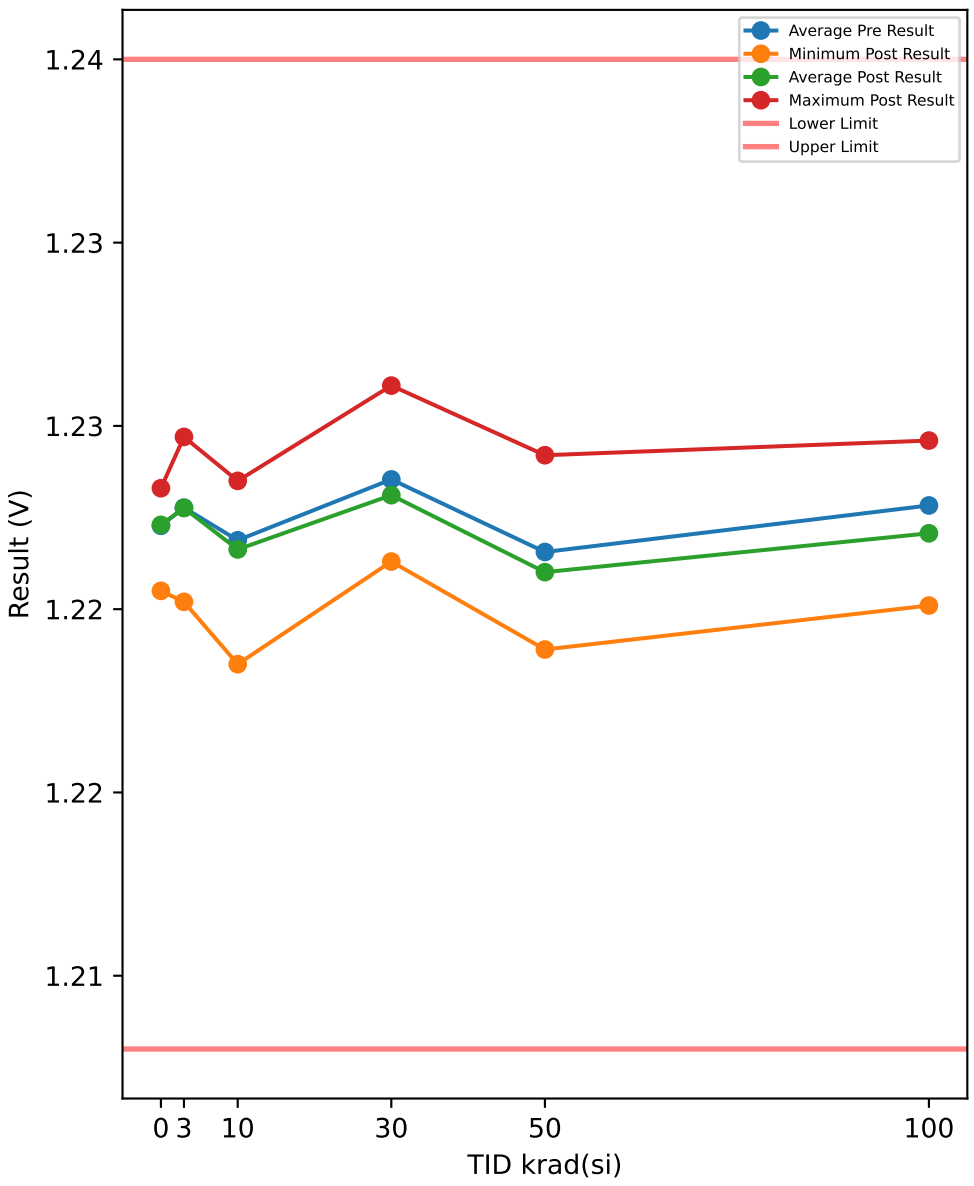
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	40	40	0
2	3	HDR BIAS	40	40	0
3	3	HDR BIAS	40	40	0
4	3	HDR BIAS	40	40	0
5	3	HDR BIAS	40	40	0
6	3	HDR UNBIAS	40	40	0
7	3	HDR UNBIAS	40	40	0
8	3	HDR UNBIAS	40	40	0
9	3	HDR UNBIAS	40	40	0
10	3	HDR UNBIAS	40	40	0
11	10	HDR BIAS	40	40	0
12	10	HDR BIAS	40	40	0
13	10	HDR BIAS	40	40	0
14	10	HDR BIAS	40	40	0
15	10	HDR BIAS	40	40	0
16	10	HDR UNBIAS	40	40	0
17	10	HDR UNBIAS	40	40	0
18	10	HDR UNBIAS	40	40	0
19	10	HDR UNBIAS	40	40	0
20	10	HDR UNBIAS	40	40	0
31	30	HDR BIAS	40	40	0
32	30	HDR BIAS	40	40	0
33	30	HDR BIAS	40	40	0
34	30	HDR BIAS	40	40	0
35	30	HDR BIAS	40	40	0
36	30	HDR UNBIAS	40	40	0
37	30	HDR UNBIAS	40	40	0
38	30	HDR UNBIAS	40	40	0
39	30	HDR UNBIAS	40	40	0
40	30	HDR UNBIAS	40	40	0
41	50	HDR BIAS	40	40	0
42	50	HDR BIAS	40	40	0
43	50	HDR BIAS	40	40	0
44	50	HDR BIAS	40	40	0
45	50	HDR BIAS	40	40	0
46	50	HDR UNBIAS	40	40	0
47	50	HDR UNBIAS	40	40	0
48	50	HDR UNBIAS	40	40	0
49	50	HDR UNBIAS	40	40	0
50	50	HDR UNBIAS	40	40	0
51	100	HDR BIAS	40	40	0
52	100	HDR BIAS	40	40	0
53	100	HDR BIAS	40	40	0
54	100	HDR BIAS	40	40	0
55	100	HDR BIAS	40	40	0
56	100	HDR UNBIAS	40	40	0
57	100	HDR UNBIAS	40	40	0
58	100	HDR UNBIAS	40	40	0
59	100	HDR UNBIAS	40	40	0
60	100	HDR UNBIAS	40	40	0
91	0	CORRELATION	40	40	0
92	0	CORRELATION	40	40	0
93	0	CORRELATION	40	40	0
94	0	CORRELATION	40	40	0

Test Statistics (%)

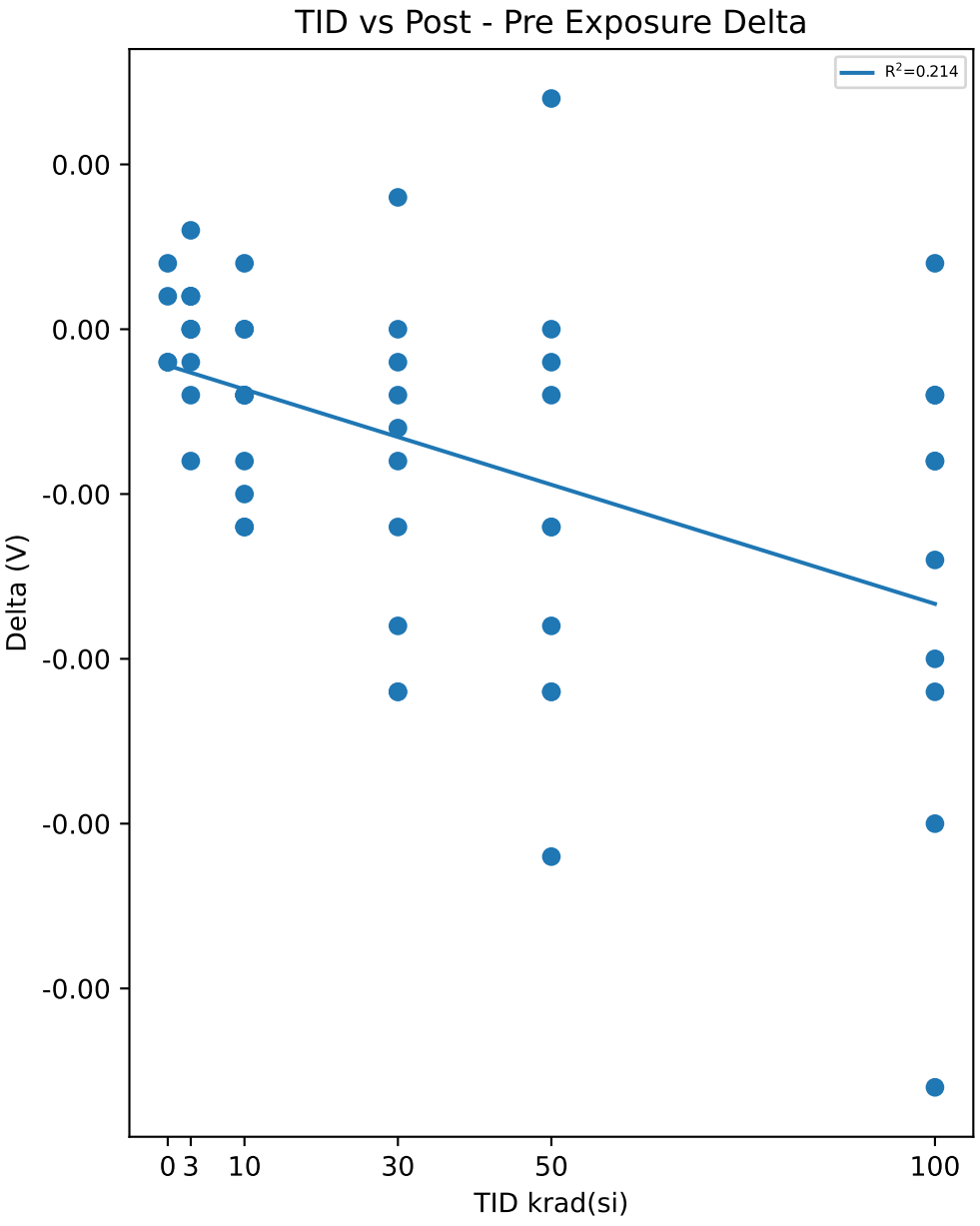
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	40	40	40	0	40	40	40	0	0	0	0	0
3	40	40	40	0	40	40	40	0	0	0	0	0
10	40	40	40	0	40	40	40	0	0	0	0	0
30	40	40	40	0	40	40	40	0	0	0	0	0
50	40	40	40	0	40	40	40	0	0	0	0	0
100	40	40	40	0	40	40	40	0	0	0	0	0

Device Test: 21.11 VOLTAGE|VREF/VREF/14/14/0/0/5/500kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



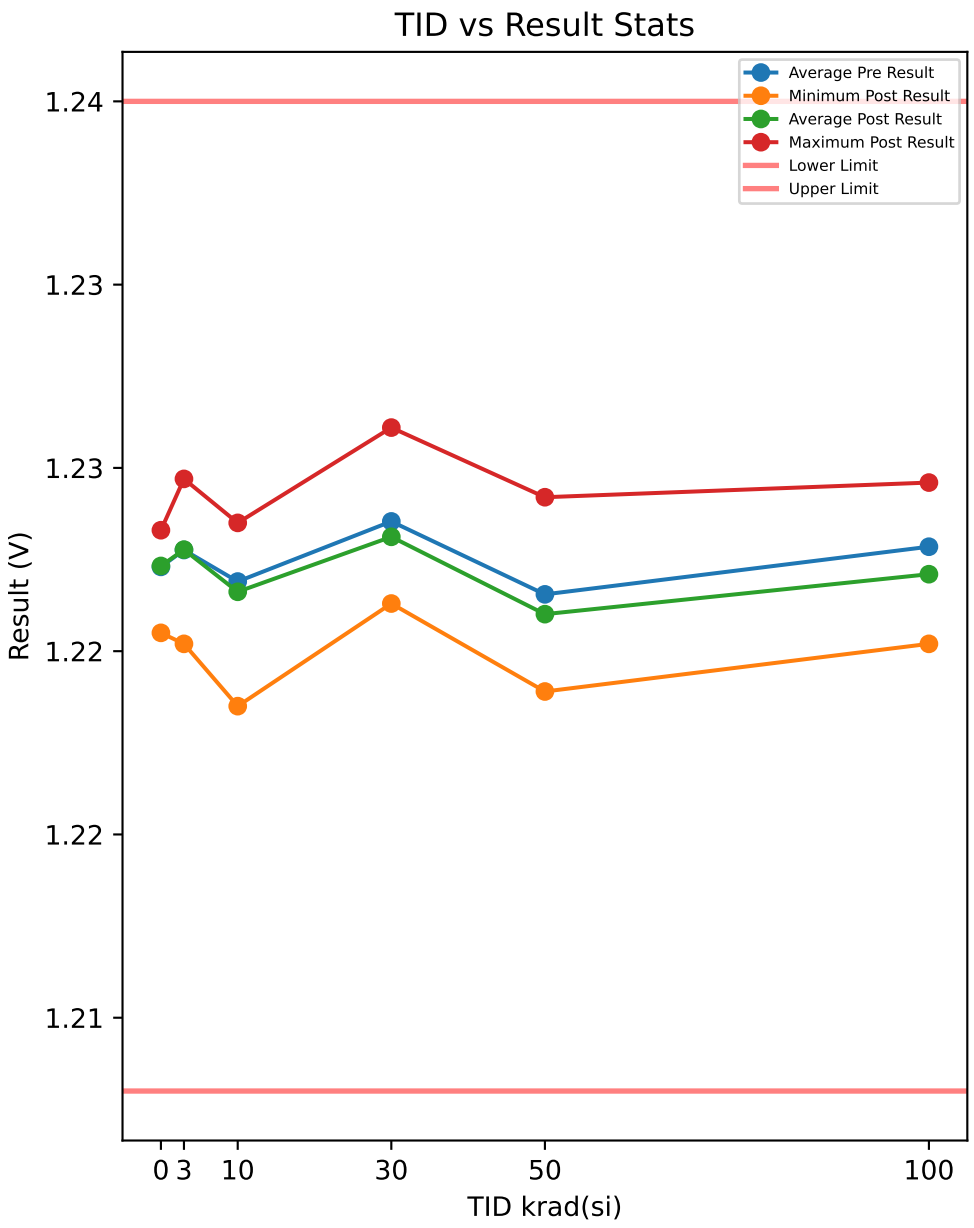
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

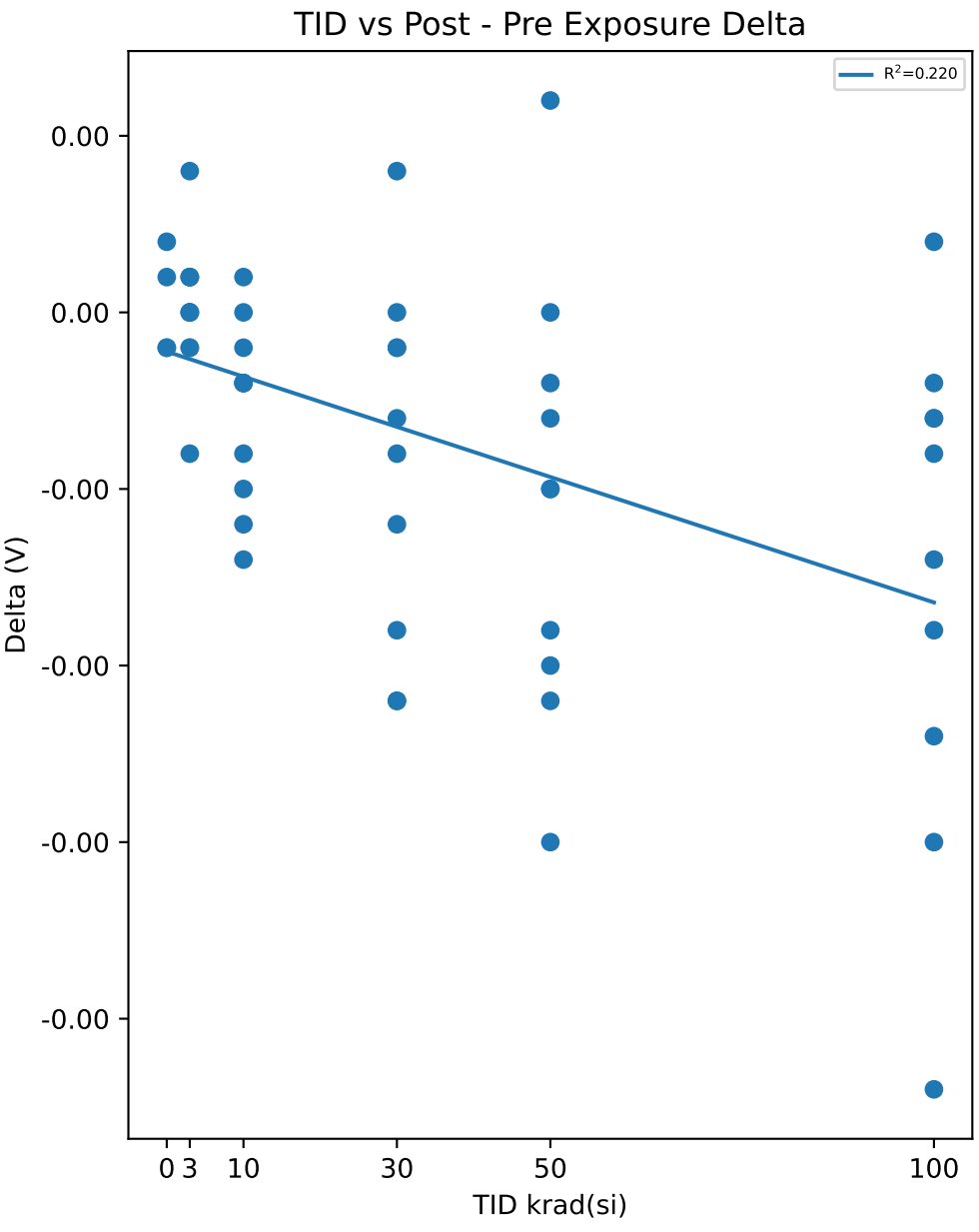
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2237	0
2	3	HDR BIAS	1.2223	1.2224	0.0001
3	3	HDR BIAS	1.2215	1.2216	0.0001
4	3	HDR BIAS	1.2244	1.2247	0.0003
5	3	HDR BIAS	1.2203	1.2202	-0.0001
6	3	HDR UNBIAS	1.2209	1.2207	-0.0002
7	3	HDR UNBIAS	1.2248	1.2244	-0.0004
8	3	HDR UNBIAS	1.2244	1.2245	0.0001
9	3	HDR UNBIAS	1.2217	1.2217	0
10	3	HDR UNBIAS	1.2237	1.2237	0
11	10	HDR BIAS	1.2227	1.2229	0.0002
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2208	1.2208	0
14	10	HDR BIAS	1.2229	1.2227	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2206	1.2201	-0.0005
17	10	HDR UNBIAS	1.2216	1.221	-0.0006
18	10	HDR UNBIAS	1.2214	1.221	-0.0004
19	10	HDR UNBIAS	1.2227	1.2227	0
20	10	HDR UNBIAS	1.2233	1.2231	-0.0002
31	30	HDR BIAS	1.2249	1.2248	-0.0001
32	30	HDR BIAS	1.2228	1.2217	-0.0011
33	30	HDR BIAS	1.2246	1.2244	-0.0002
34	30	HDR BIAS	1.2233	1.2227	-0.0006
35	30	HDR BIAS	1.2219	1.2215	-0.0004
36	30	HDR UNBIAS	1.2209	1.2213	0.0004
37	30	HDR UNBIAS	1.223	1.2221	-0.0009
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2252	1.2241	-0.0011
40	30	HDR UNBIAS	1.2227	1.2224	-0.0003
41	50	HDR BIAS	1.2201	1.2208	0.0007
42	50	HDR BIAS	1.2214	1.2205	-0.0009
43	50	HDR BIAS	1.22	1.2189	-0.0011
44	50	HDR BIAS	1.2211	1.22	-0.0011
45	50	HDR BIAS	1.2212	1.2206	-0.0006
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2215	1.2214	-0.0001
48	50	HDR UNBIAS	1.2213	1.2197	-0.0016
49	50	HDR UNBIAS	1.2211	1.2211	0
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2232	1.2209	-0.0023
52	100	HDR BIAS	1.2205	1.2201	-0.0004
53	100	HDR BIAS	1.2239	1.2228	-0.0011
54	100	HDR BIAS	1.2217	1.2202	-0.0015
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2223	1.2219	-0.0004
58	100	HDR UNBIAS	1.2239	1.2229	-0.001
59	100	HDR UNBIAS	1.2248	1.2246	-0.0002
60	100	HDR UNBIAS	1.2241	1.2239	-0.0002
91	0	CORRELATION	1.2204	1.2205	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2234	1.2233	-0.0001
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2234	0.0014361	1.2205	1.2223	1.2233	0.0013266	-0.0001	2.5e-05	0.0002	0.00015
3	1.2203	1.2228	1.2248	0.0016242	1.2202	1.2228	1.2247	0.0016548	-0.0004	-1e-05	0.0003	0.0001912
10	1.2191	1.2219	1.2237	0.0014359	1.2185	1.2216	1.2235	0.0016049	-0.0006	-0.00025	0.0002	0.00027183
30	1.2209	1.2235	1.2261	0.0016174	1.2213	1.2231	1.2261	0.0016326	-0.0011	-0.00043	0.0004	0.00049453
50	1.22	1.2216	1.2244	0.0013761	1.2189	1.221	1.2242	0.0015481	-0.0016	-0.00055	0.0007	0.00066875
100	1.2205	1.2228	1.2248	0.0013687	1.2201	1.2221	1.2246	0.0014915	-0.0023	-0.00076	0.0002	0.00073817

Device Test: 21.13 VOLTAGE|VREF/VREF/12/12/0/1000/5/100kHz//@V_REFCAP





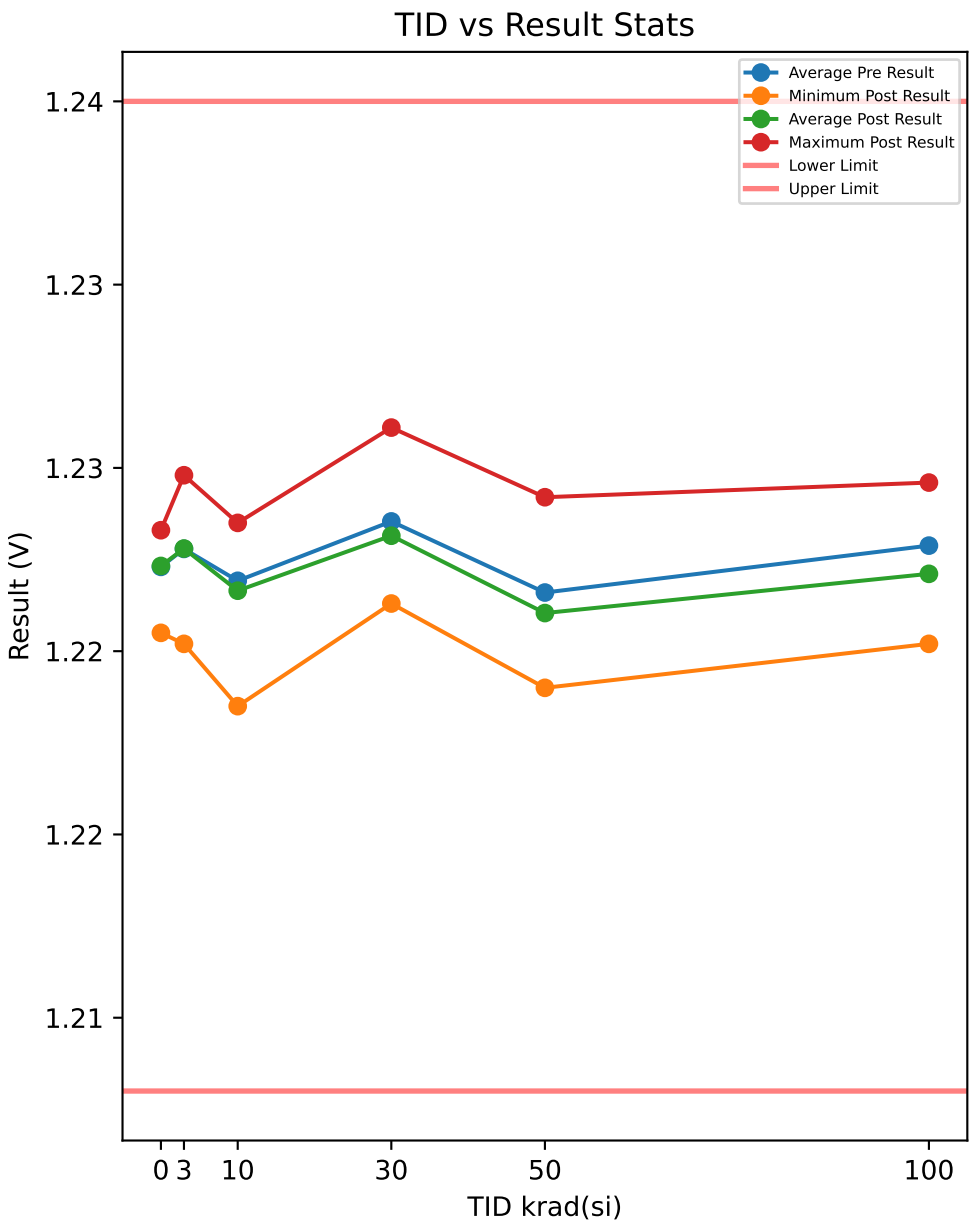
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

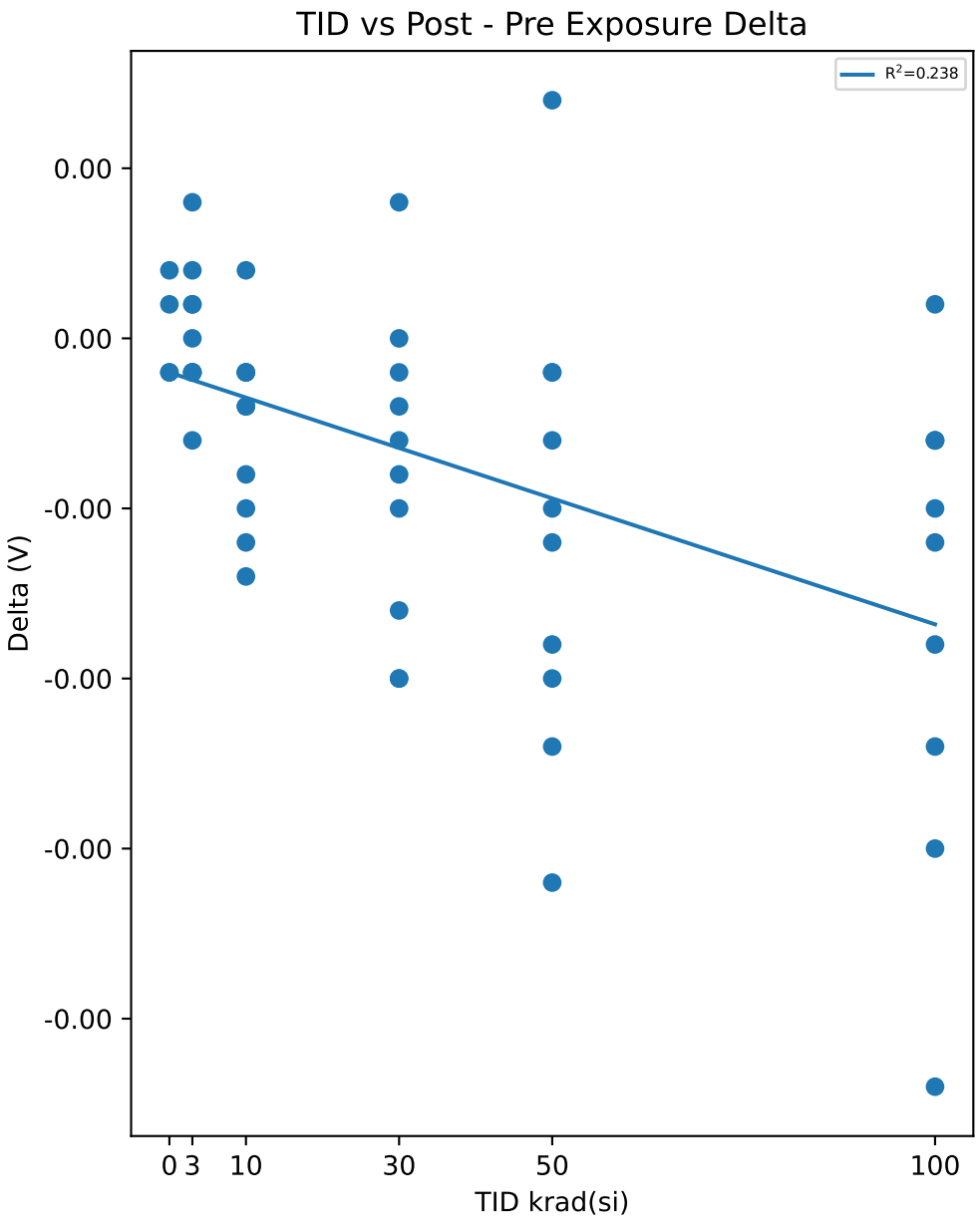
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2237	0
2	3	HDR BIAS	1.2223	1.2224	0.0001
3	3	HDR BIAS	1.2215	1.2216	0.0001
4	3	HDR BIAS	1.2243	1.2247	0.0004
5	3	HDR BIAS	1.2203	1.2202	-0.0001
6	3	HDR UNBIAS	1.2209	1.2208	-0.0001
7	3	HDR UNBIAS	1.2248	1.2244	-0.0004
8	3	HDR UNBIAS	1.2244	1.2245	0.0001
9	3	HDR UNBIAS	1.2217	1.2217	0
10	3	HDR UNBIAS	1.2237	1.2237	0
11	10	HDR BIAS	1.2227	1.2228	0.0001
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2209	1.2208	-0.0001
14	10	HDR BIAS	1.2229	1.2227	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2206	1.2201	-0.0005
17	10	HDR UNBIAS	1.2217	1.221	-0.0007
18	10	HDR UNBIAS	1.2214	1.221	-0.0004
19	10	HDR UNBIAS	1.2227	1.2227	0
20	10	HDR UNBIAS	1.2233	1.2231	-0.0002
31	30	HDR BIAS	1.2249	1.2248	-0.0001
32	30	HDR BIAS	1.2228	1.2217	-0.0011
33	30	HDR BIAS	1.2246	1.2245	-0.0001
34	30	HDR BIAS	1.2233	1.2227	-0.0006
35	30	HDR BIAS	1.2219	1.2215	-0.0004
36	30	HDR UNBIAS	1.2209	1.2213	0.0004
37	30	HDR UNBIAS	1.223	1.2221	-0.0009
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2252	1.2241	-0.0011
40	30	HDR UNBIAS	1.2227	1.2224	-0.0003
41	50	HDR BIAS	1.2201	1.2207	0.0006
42	50	HDR BIAS	1.2214	1.2205	-0.0009
43	50	HDR BIAS	1.2199	1.2189	-0.001
44	50	HDR BIAS	1.2211	1.22	-0.0011
45	50	HDR BIAS	1.2212	1.2207	-0.0005
46	50	HDR UNBIAS	1.2235	1.223	-0.0005
47	50	HDR UNBIAS	1.2215	1.2213	-0.0002
48	50	HDR UNBIAS	1.2212	1.2197	-0.0015
49	50	HDR UNBIAS	1.2211	1.2211	0
50	50	HDR UNBIAS	1.2245	1.2242	-0.0003
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2205	1.2202	-0.0003
53	100	HDR BIAS	1.224	1.2228	-0.0012
54	100	HDR BIAS	1.2217	1.2202	-0.0015
55	100	HDR BIAS	1.2225	1.2218	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2223	1.2219	-0.0004
58	100	HDR UNBIAS	1.2239	1.223	-0.0009
59	100	HDR UNBIAS	1.2249	1.2246	-0.0003
60	100	HDR UNBIAS	1.2241	1.2239	-0.0002
91	0	CORRELATION	1.2204	1.2205	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2234	1.2233	-0.0001
94	0	CORRELATION	1.222	1.2222	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2234	0.0014283	1.2205	1.2223	1.2233	0.0013226	-0.0001	2.5e-05	0.0002	0.00015
3	1.2203	1.2228	1.2248	0.0016133	1.2202	1.2228	1.2247	0.0016412	-0.0004	1e-05	0.0004	0.00020248
10	1.2191	1.2219	1.2237	0.0014259	1.2185	1.2216	1.2235	0.0015964	-0.0007	-0.00028	0.0001	0.00026162
30	1.2209	1.2235	1.2261	0.0016174	1.2213	1.2231	1.2261	0.0016417	-0.0011	-0.00042	0.0004	0.00050067
50	1.2199	1.2216	1.2245	0.0014144	1.2189	1.221	1.2242	0.0015588	-0.0015	-0.00054	0.0006	0.00060955
100	1.2205	1.2228	1.2249	0.0013882	1.2202	1.2221	1.2246	0.001481	-0.0022	-0.00075	0.0002	0.00071686

Device Test: 21.15 VOLTAGE|VREF/VREF/14/14/0/1000/5/100kHz//@V_REFCAP





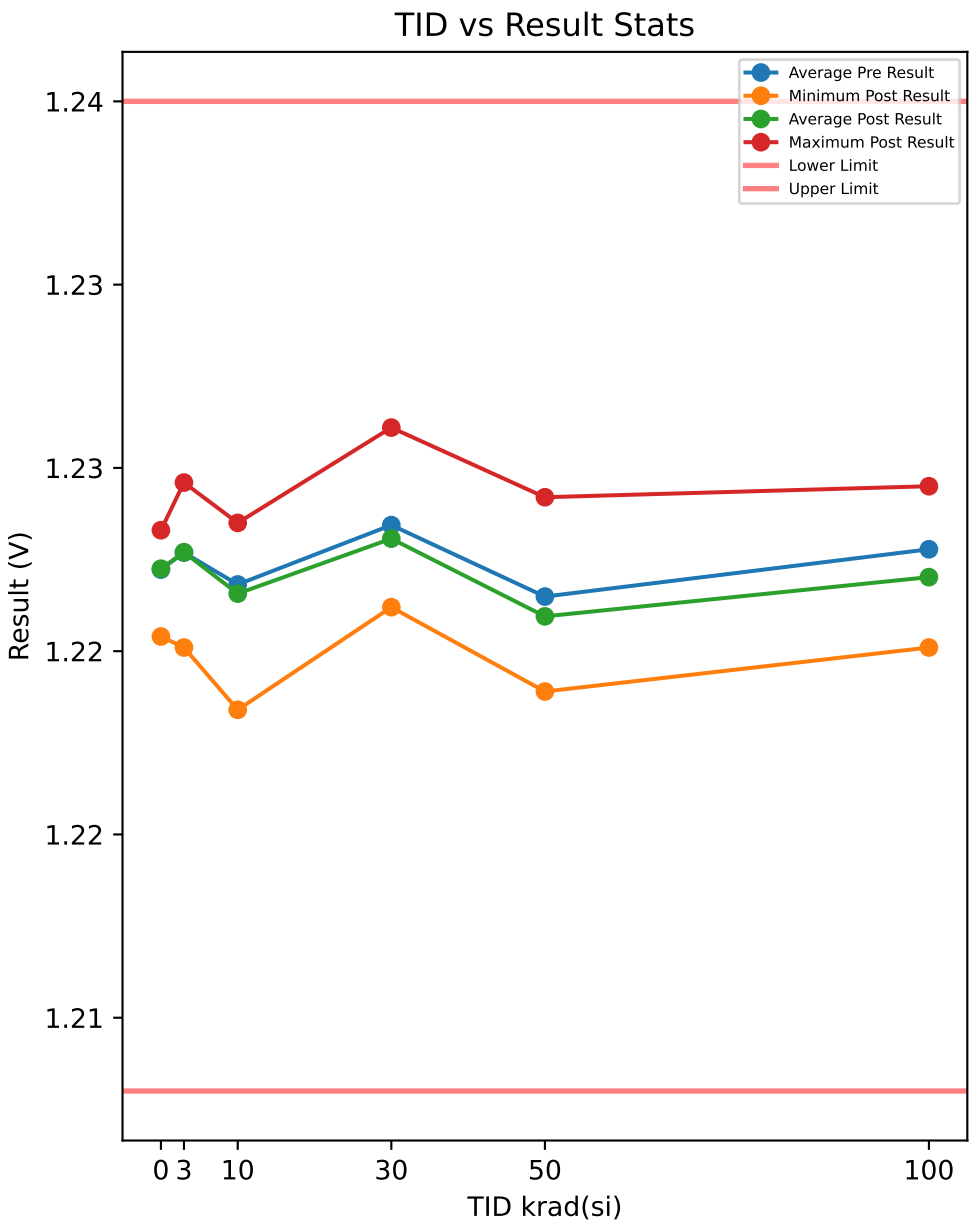
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

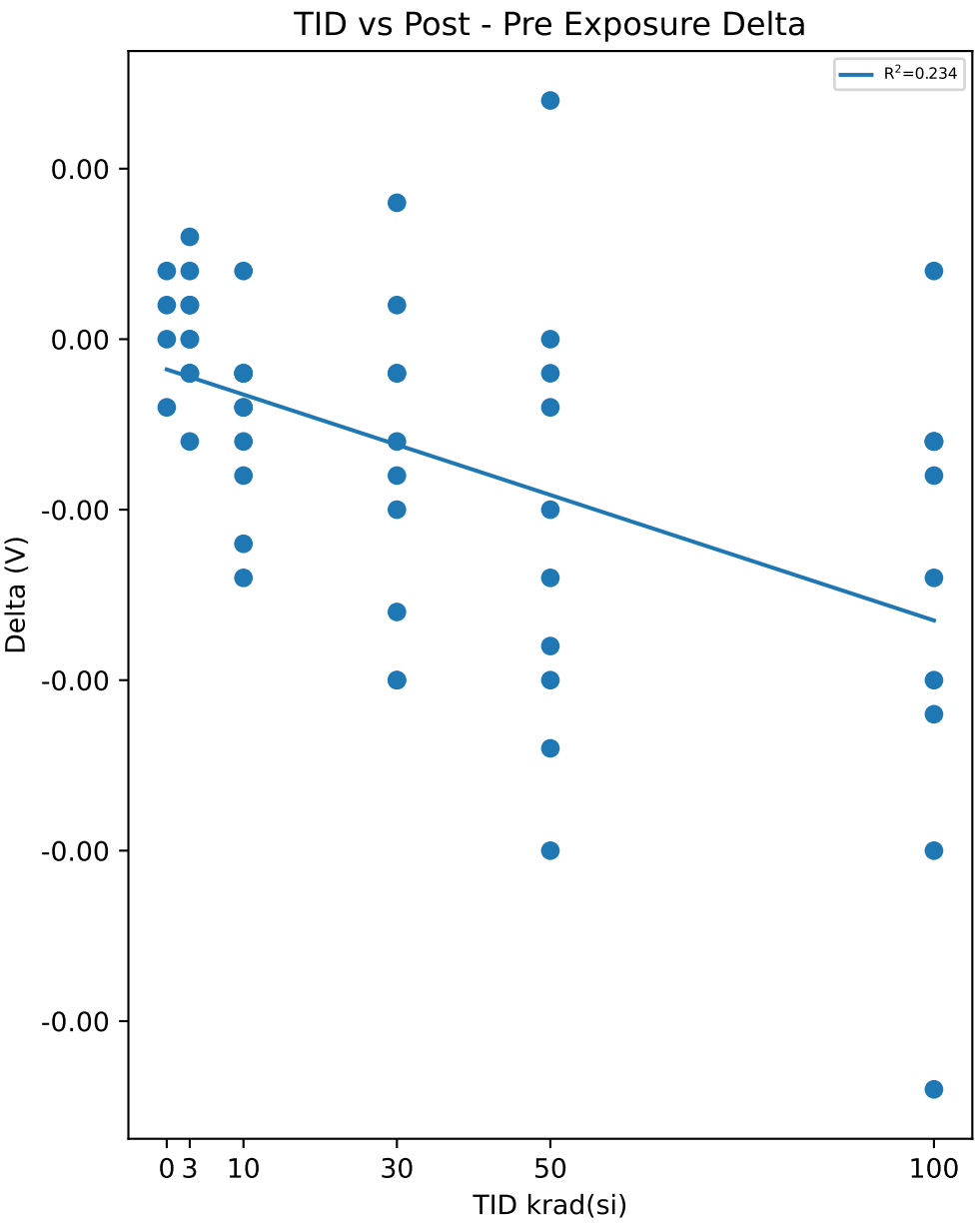
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2238	1.2237	-0.0001
2	3	HDR BIAS	1.2223	1.2224	0.0001
3	3	HDR BIAS	1.2215	1.2217	0.0002
4	3	HDR BIAS	1.2244	1.2248	0.0004
5	3	HDR BIAS	1.2203	1.2202	-0.0001
6	3	HDR UNBIAS	1.2209	1.2208	-0.0001
7	3	HDR UNBIAS	1.2248	1.2245	-0.0003
8	3	HDR UNBIAS	1.2244	1.2245	0.0001
9	3	HDR UNBIAS	1.2218	1.2217	-0.0001
10	3	HDR UNBIAS	1.2237	1.2237	0
11	10	HDR BIAS	1.2227	1.2229	0.0002
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2209	1.2208	-0.0001
14	10	HDR BIAS	1.2229	1.2227	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2206	1.2201	-0.0005
17	10	HDR UNBIAS	1.2217	1.221	-0.0007
18	10	HDR UNBIAS	1.2215	1.2211	-0.0004
19	10	HDR UNBIAS	1.2228	1.2227	-0.0001
20	10	HDR UNBIAS	1.2233	1.2232	-0.0001
31	30	HDR BIAS	1.2249	1.2248	-0.0001
32	30	HDR BIAS	1.2228	1.2218	-0.001
33	30	HDR BIAS	1.2246	1.2244	-0.0002
34	30	HDR BIAS	1.2233	1.2228	-0.0005
35	30	HDR BIAS	1.2219	1.2215	-0.0004
36	30	HDR UNBIAS	1.2209	1.2213	0.0004
37	30	HDR UNBIAS	1.223	1.2222	-0.0008
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2252	1.2242	-0.001
40	30	HDR UNBIAS	1.2227	1.2224	-0.0003
41	50	HDR BIAS	1.2201	1.2208	0.0007
42	50	HDR BIAS	1.2214	1.2205	-0.0009
43	50	HDR BIAS	1.22	1.219	-0.001
44	50	HDR BIAS	1.2212	1.22	-0.0012
45	50	HDR BIAS	1.2212	1.2207	-0.0005
46	50	HDR UNBIAS	1.2236	1.223	-0.0006
47	50	HDR UNBIAS	1.2215	1.2214	-0.0001
48	50	HDR UNBIAS	1.2213	1.2197	-0.0016
49	50	HDR UNBIAS	1.2212	1.2211	-0.0001
50	50	HDR UNBIAS	1.2245	1.2242	-0.0003
51	100	HDR BIAS	1.2232	1.221	-0.0022
52	100	HDR BIAS	1.2205	1.2202	-0.0003
53	100	HDR BIAS	1.224	1.2228	-0.0012
54	100	HDR BIAS	1.2217	1.2202	-0.0015
55	100	HDR BIAS	1.2224	1.2218	-0.0006
56	100	HDR UNBIAS	1.2216	1.2217	0.0001
57	100	HDR UNBIAS	1.2224	1.2219	-0.0005
58	100	HDR UNBIAS	1.2239	1.223	-0.0009
59	100	HDR UNBIAS	1.2249	1.2246	-0.0003
60	100	HDR UNBIAS	1.2242	1.2239	-0.0003
91	0	CORRELATION	1.2204	1.2205	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2234	1.2233	-0.0001
94	0	CORRELATION	1.222	1.2222	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2234	0.0014283	1.2205	1.2223	1.2233	0.0013226	-0.0001	2.5e-05	0.0002	0.00015
3	1.2203	1.2228	1.2248	0.0016237	1.2202	1.2228	1.2248	0.001658	-0.0003	1e-05	0.0004	0.00019692
10	1.2191	1.2219	1.2237	0.0014289	1.2185	1.2216	1.2235	0.0016112	-0.0007	-0.00027	0.0002	0.00027508
30	1.2209	1.2235	1.2261	0.0016174	1.2213	1.2231	1.2261	0.0016209	-0.001	-0.00039	0.0004	0.0004508
50	1.22	1.2216	1.2245	0.0014079	1.219	1.221	1.2242	0.0015443	-0.0016	-0.00056	0.0007	0.00065693
100	1.2205	1.2229	1.2249	0.0013895	1.2202	1.2221	1.2246	0.0014723	-0.0022	-0.00077	0.0001	0.0006913

Device Test: 21.17 VOLTAGE|VREF/VREF/12/12/0/1000/5/500kHz//@V_REFCAP





Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

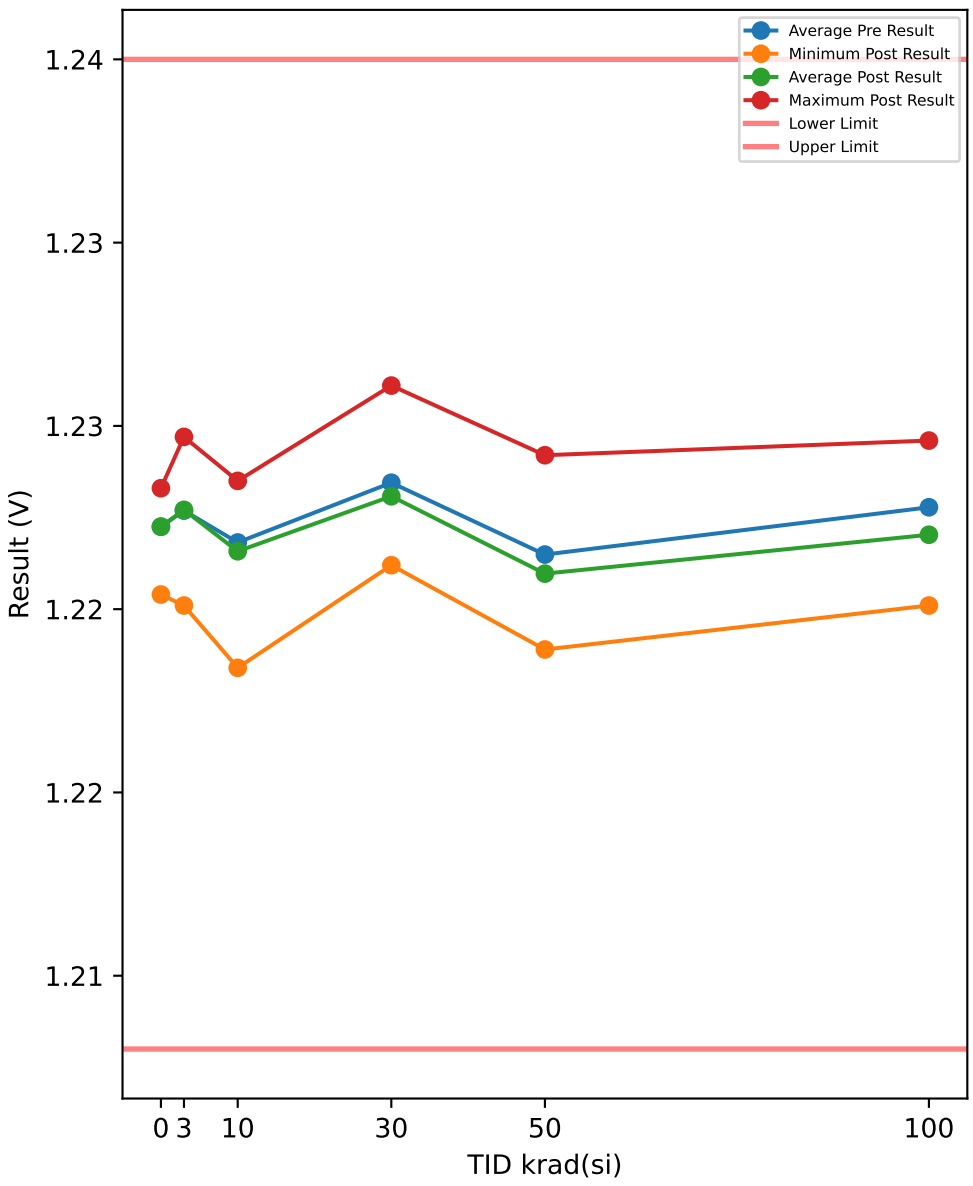
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2236	-0.0001
2	3	HDR BIAS	1.2222	1.2223	0.0001
3	3	HDR BIAS	1.2214	1.2216	0.0002
4	3	HDR BIAS	1.2243	1.2246	0.0003
5	3	HDR BIAS	1.2202	1.2201	-0.0001
6	3	HDR UNBIAS	1.2208	1.2207	-0.0001
7	3	HDR UNBIAS	1.2247	1.2244	-0.0003
8	3	HDR UNBIAS	1.2243	1.2244	0.0001
9	3	HDR UNBIAS	1.2217	1.2217	0
10	3	HDR UNBIAS	1.2236	1.2236	0
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.219	1.2184	-0.0006
13	10	HDR BIAS	1.2208	1.2207	-0.0001
14	10	HDR BIAS	1.2228	1.2226	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2205	1.2201	-0.0004
17	10	HDR UNBIAS	1.2216	1.2209	-0.0007
18	10	HDR UNBIAS	1.2213	1.221	-0.0003
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2232	1.2231	-0.0001
31	30	HDR BIAS	1.2248	1.2247	-0.0001
32	30	HDR BIAS	1.2227	1.2217	-0.001
33	30	HDR BIAS	1.2245	1.2244	-0.0001
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2214	-0.0004
36	30	HDR UNBIAS	1.2208	1.2212	0.0004
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.226	1.2261	0.0001
39	30	HDR UNBIAS	1.2251	1.2241	-0.001
40	30	HDR UNBIAS	1.2226	1.2223	-0.0003
41	50	HDR BIAS	1.22	1.2207	0.0007
42	50	HDR BIAS	1.2213	1.2204	-0.0009
43	50	HDR BIAS	1.2199	1.2189	-0.001
44	50	HDR BIAS	1.2211	1.2199	-0.0012
45	50	HDR BIAS	1.2211	1.2206	-0.0005
46	50	HDR UNBIAS	1.2235	1.2228	-0.0007
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2212	1.2197	-0.0015
49	50	HDR UNBIAS	1.221	1.221	0
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2238	1.2227	-0.0011
54	100	HDR BIAS	1.2216	1.2201	-0.0015
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2222	1.2218	-0.0004
58	100	HDR UNBIAS	1.2239	1.2229	-0.001
59	100	HDR UNBIAS	1.2248	1.2245	-0.0003
60	100	HDR UNBIAS	1.2241	1.2238	-0.0003
91	0	CORRELATION	1.2203	1.2204	0.0001
92	0	CORRELATION	1.2234	1.2232	-0.0002
93	0	CORRELATION	1.2233	1.2233	0
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

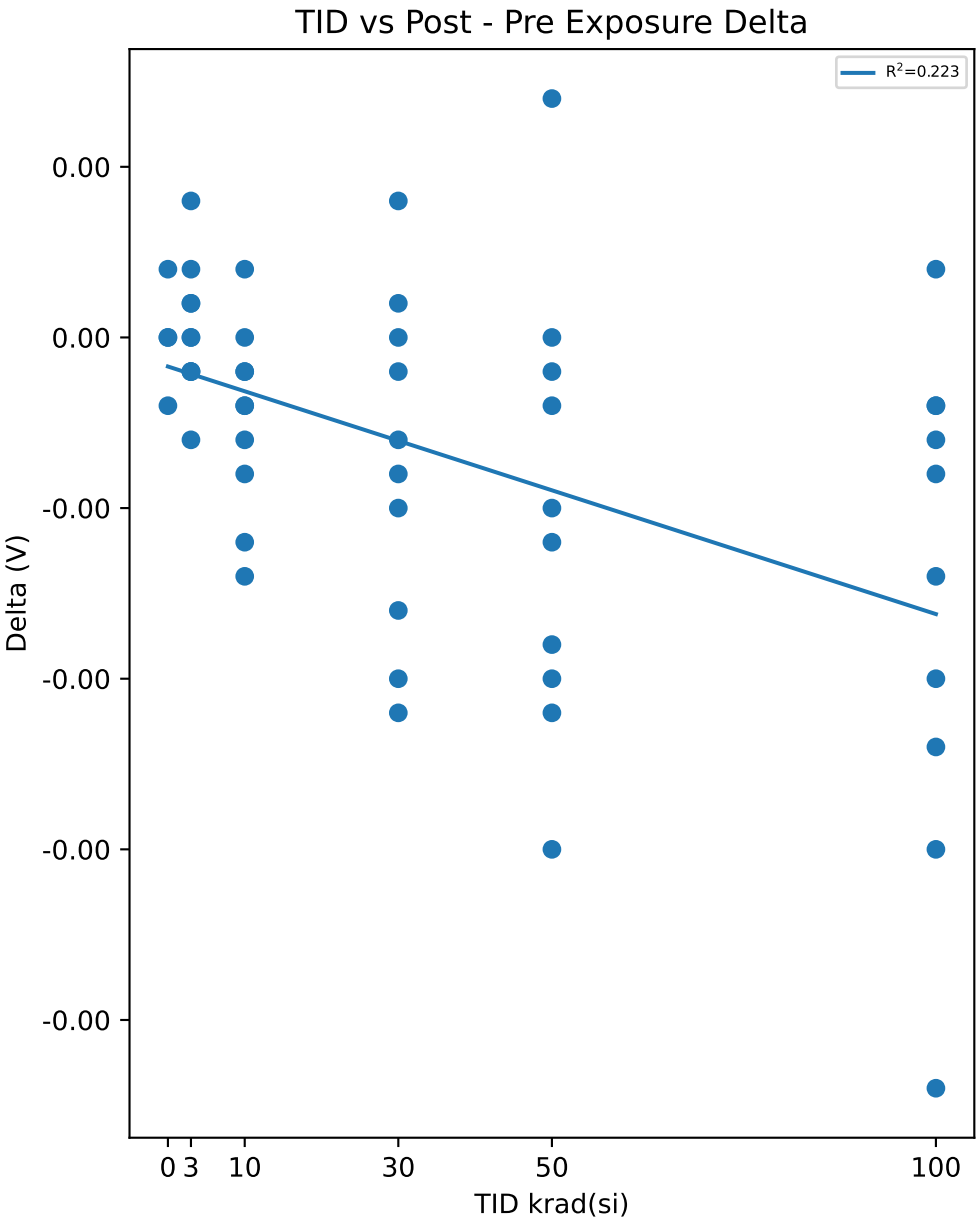
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2203	1.2222	1.2234	0.0014546	1.2204	1.2223	1.2233	0.0013478	-0.0002	2.5e-05	0.0002	0.00017078
3	1.2202	1.2227	1.2247	0.0016237	1.2201	1.2227	1.2246	0.0016377	-0.0003	1e-05	0.0003	0.00017288
10	1.219	1.2218	1.2237	0.0014467	1.2184	1.2216	1.2235	0.0016139	-0.0007	-0.00025	0.0002	0.00026352
30	1.2208	1.2234	1.226	0.0016174	1.2212	1.2231	1.2261	0.0016499	-0.001	-0.00037	0.0004	0.00046679
50	1.2199	1.2215	1.2244	0.0014114	1.2189	1.2209	1.2242	0.0015443	-0.0015	-0.00054	0.0007	0.00065524
100	1.2204	1.2228	1.2248	0.0013903	1.2201	1.222	1.2245	0.0014695	-0.0022	-0.00076	0.0002	0.00070585

Device Test: 21.19 VOLTAGE|VREF/VREF/14/14/0/1000/5/500kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



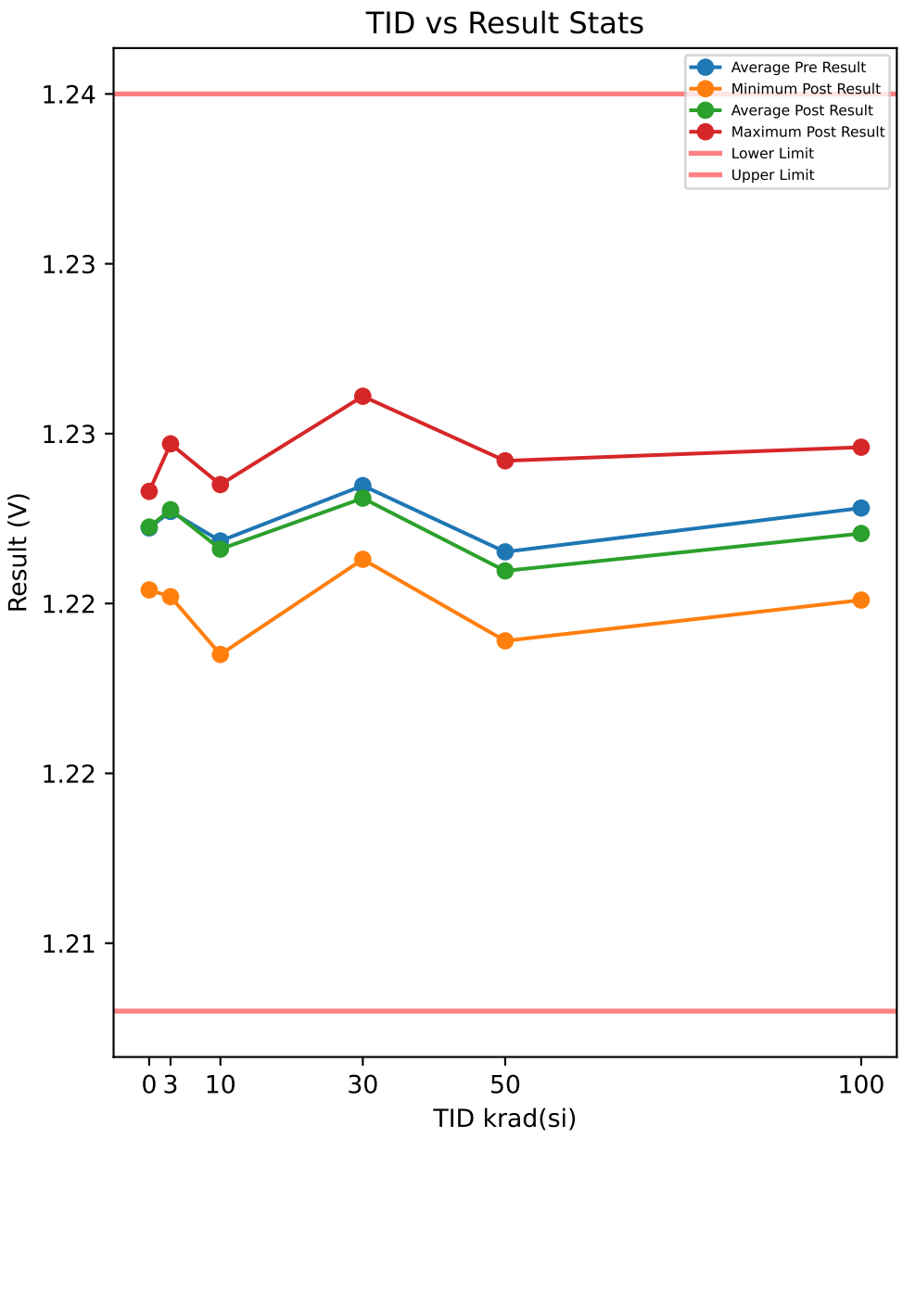
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

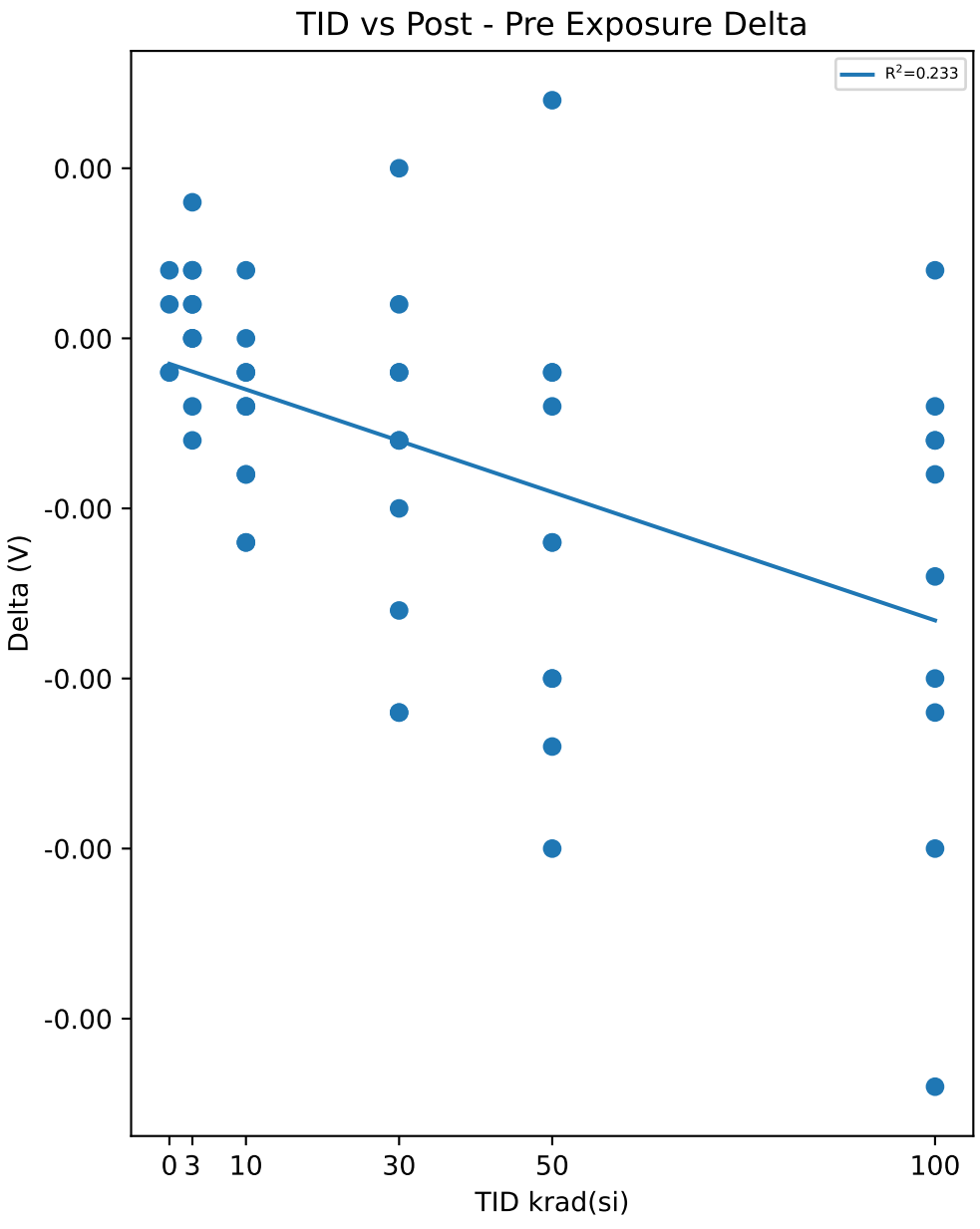
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2237	0
2	3	HDR BIAS	1.2222	1.2223	0.0001
3	3	HDR BIAS	1.2214	1.2216	0.0002
4	3	HDR BIAS	1.2243	1.2247	0.0004
5	3	HDR BIAS	1.2202	1.2201	-0.0001
6	3	HDR UNBIAS	1.2208	1.2207	-0.0001
7	3	HDR UNBIAS	1.2247	1.2244	-0.0003
8	3	HDR UNBIAS	1.2243	1.2244	0.0001
9	3	HDR UNBIAS	1.2217	1.2216	-0.0001
10	3	HDR UNBIAS	1.2236	1.2236	0
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.219	1.2184	-0.0006
13	10	HDR BIAS	1.2208	1.2208	0
14	10	HDR BIAS	1.2228	1.2226	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2205	1.2201	-0.0004
17	10	HDR UNBIAS	1.2216	1.2209	-0.0007
18	10	HDR UNBIAS	1.2213	1.221	-0.0003
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2232	1.2231	-0.0001
31	30	HDR BIAS	1.2248	1.2248	0
32	30	HDR BIAS	1.2228	1.2217	-0.0011
33	30	HDR BIAS	1.2245	1.2244	-0.0001
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2214	-0.0004
36	30	HDR UNBIAS	1.2208	1.2212	0.0004
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.226	1.2261	0.0001
39	30	HDR UNBIAS	1.2251	1.2241	-0.001
40	30	HDR UNBIAS	1.2226	1.2223	-0.0003
41	50	HDR BIAS	1.22	1.2207	0.0007
42	50	HDR BIAS	1.2213	1.2204	-0.0009
43	50	HDR BIAS	1.2199	1.2189	-0.001
44	50	HDR BIAS	1.2211	1.22	-0.0011
45	50	HDR BIAS	1.2211	1.2206	-0.0005
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2212	1.2197	-0.0015
49	50	HDR UNBIAS	1.221	1.221	0
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2239	1.2227	-0.0012
54	100	HDR BIAS	1.2216	1.2201	-0.0015
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2222	1.2218	-0.0004
58	100	HDR UNBIAS	1.2239	1.2229	-0.001
59	100	HDR UNBIAS	1.2248	1.2246	-0.0002
60	100	HDR UNBIAS	1.224	1.2238	-0.0002
91	0	CORRELATION	1.2204	1.2204	0
92	0	CORRELATION	1.2234	1.2232	-0.0002
93	0	CORRELATION	1.2233	1.2233	0
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2234	0.0014107	1.2204	1.2223	1.2233	0.0013478	-0.0002	0	0.0002	0.0001633
3	1.2202	1.2227	1.2247	0.0016237	1.2201	1.2227	1.2247	0.0016643	-0.0003	2e-05	0.0004	0.00019322
10	1.219	1.2218	1.2237	0.0014467	1.2184	1.2216	1.2235	0.0016082	-0.0007	-0.00024	0.0002	0.00027162
30	1.2208	1.2235	1.226	0.0016126	1.2212	1.2231	1.2261	0.0016612	-0.0011	-0.00037	0.0004	0.00049001
50	1.2199	1.2215	1.2244	0.0014114	1.2189	1.221	1.2242	0.0015507	-0.0015	-0.00052	0.0007	0.00064256
100	1.2204	1.2228	1.2248	0.0013887	1.2201	1.222	1.2246	0.0014885	-0.0022	-0.00075	0.0002	0.00072763

Device Test: 21.23 VOLTAGE|VREF/VREF/8/8/0/0/5/100kHz//@V_REFCAP





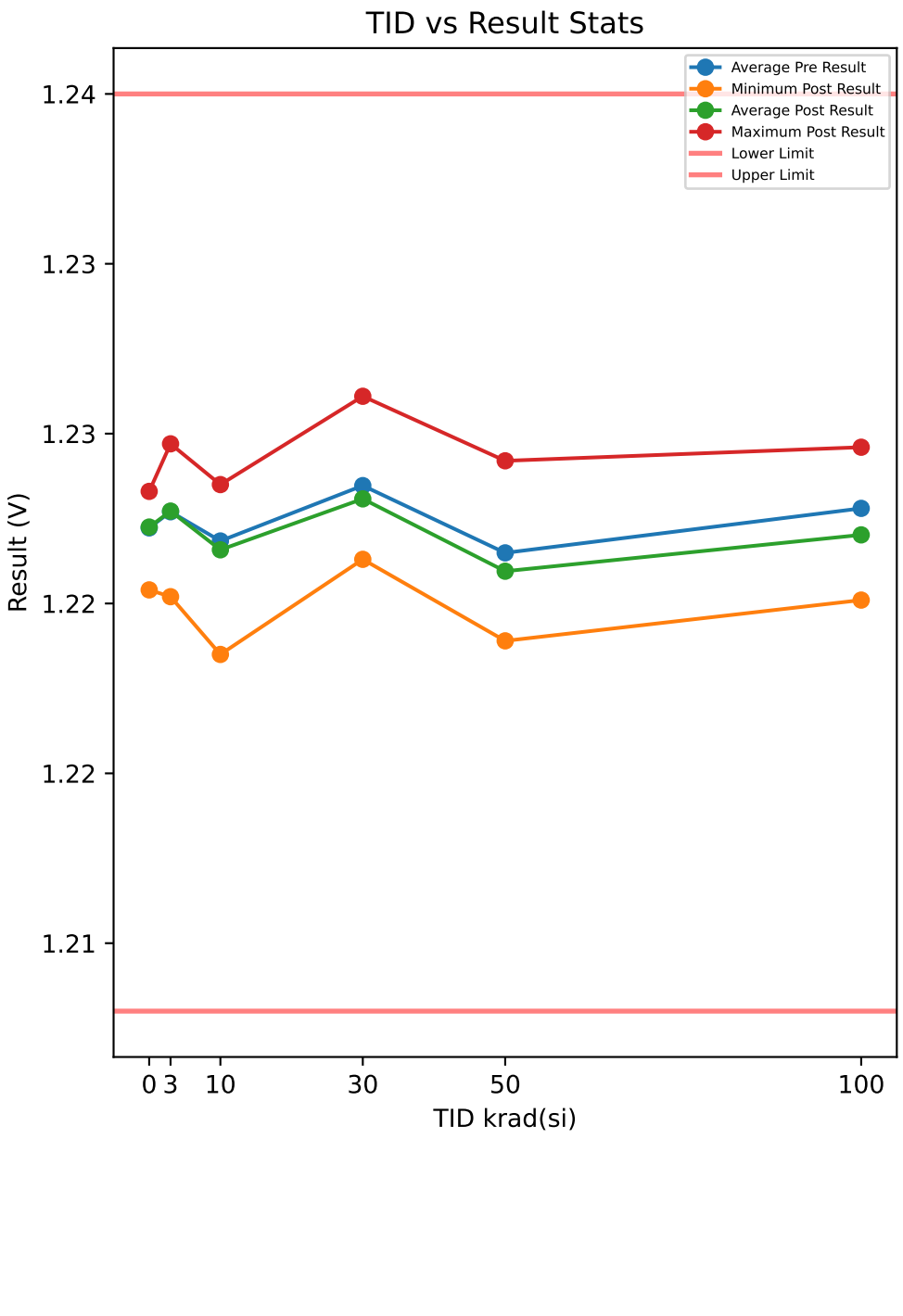
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

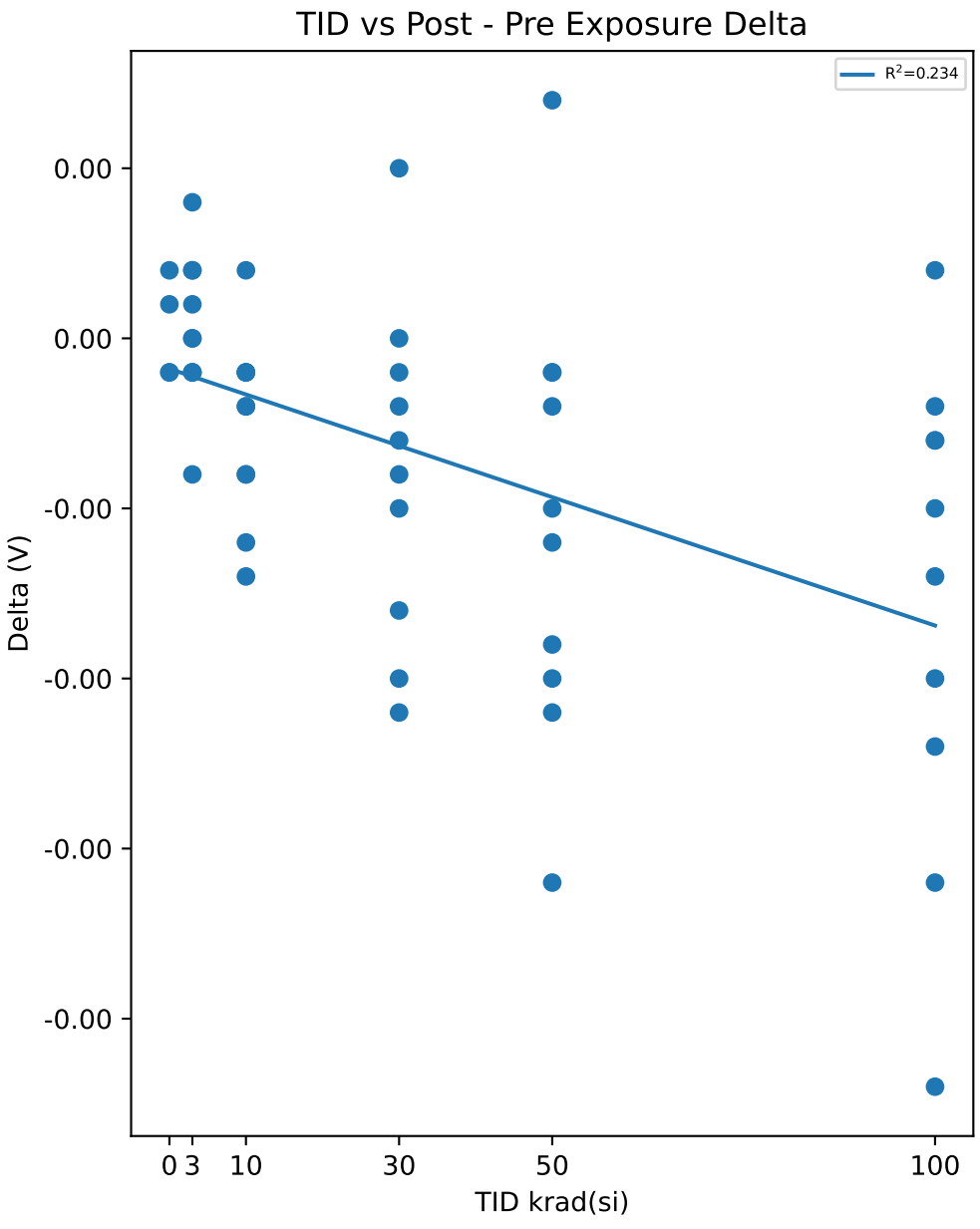
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2237	0
2	3	HDR BIAS	1.2222	1.2224	0.0002
3	3	HDR BIAS	1.2215	1.2216	0.0001
4	3	HDR BIAS	1.2243	1.2247	0.0004
5	3	HDR BIAS	1.2202	1.2202	0
6	3	HDR UNBIAS	1.2209	1.2207	-0.0002
7	3	HDR UNBIAS	1.2247	1.2244	-0.0003
8	3	HDR UNBIAS	1.2243	1.2245	0.0002
9	3	HDR UNBIAS	1.2217	1.2217	0
10	3	HDR UNBIAS	1.2236	1.2237	0.0001
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2208	1.2208	0
14	10	HDR BIAS	1.2228	1.2226	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2205	1.2201	-0.0004
17	10	HDR UNBIAS	1.2216	1.221	-0.0006
18	10	HDR UNBIAS	1.2214	1.221	-0.0004
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2232	1.2231	-0.0001
31	30	HDR BIAS	1.2248	1.2247	-0.0001
32	30	HDR BIAS	1.2228	1.2217	-0.0011
33	30	HDR BIAS	1.2246	1.2245	-0.0001
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2215	-0.0003
36	30	HDR UNBIAS	1.2208	1.2213	0.0005
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.226	1.2261	0.0001
39	30	HDR UNBIAS	1.2252	1.2241	-0.0011
40	30	HDR UNBIAS	1.2226	1.2223	-0.0003
41	50	HDR BIAS	1.22	1.2207	0.0007
42	50	HDR BIAS	1.2214	1.2204	-0.001
43	50	HDR BIAS	1.2199	1.2189	-0.001
44	50	HDR BIAS	1.2211	1.2199	-0.0012
45	50	HDR BIAS	1.2212	1.2206	-0.0006
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2212	1.2197	-0.0015
49	50	HDR UNBIAS	1.2211	1.221	-0.0001
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2239	1.2228	-0.0011
54	100	HDR BIAS	1.2217	1.2202	-0.0015
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2223	1.2219	-0.0004
58	100	HDR UNBIAS	1.2239	1.2229	-0.001
59	100	HDR UNBIAS	1.2248	1.2246	-0.0002
60	100	HDR UNBIAS	1.2241	1.2238	-0.0003
91	0	CORRELATION	1.2203	1.2204	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2233	1.2232	-0.0001
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2203	1.2222	1.2234	0.0014546	1.2204	1.2223	1.2233	0.0013478	-0.0001	2.5e-05	0.0002	0.00015
3	1.2202	1.2227	1.2247	0.0016024	1.2202	1.2228	1.2247	0.0016548	-0.0003	5e-05	0.0004	0.00020138
10	1.2191	1.2218	1.2237	0.0014214	1.2185	1.2216	1.2235	0.0015818	-0.0006	-0.00024	0.0002	0.00025906
30	1.2208	1.2235	1.226	0.0016317	1.2213	1.2231	1.2261	0.0016357	-0.0011	-0.00037	0.0005	0.00051651
50	1.2199	1.2215	1.2244	0.0014038	1.2189	1.221	1.2242	0.0015579	-0.0015	-0.00056	0.0007	0.00065184
100	1.2204	1.2228	1.2248	0.0013852	1.2201	1.2221	1.2246	0.0014781	-0.0022	-0.00075	0.0002	0.00071375

Device Test: 21.25 VOLTAGE|VREF/VREF/8/8/0/0/5/500kHz//@V_REFCAP





Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

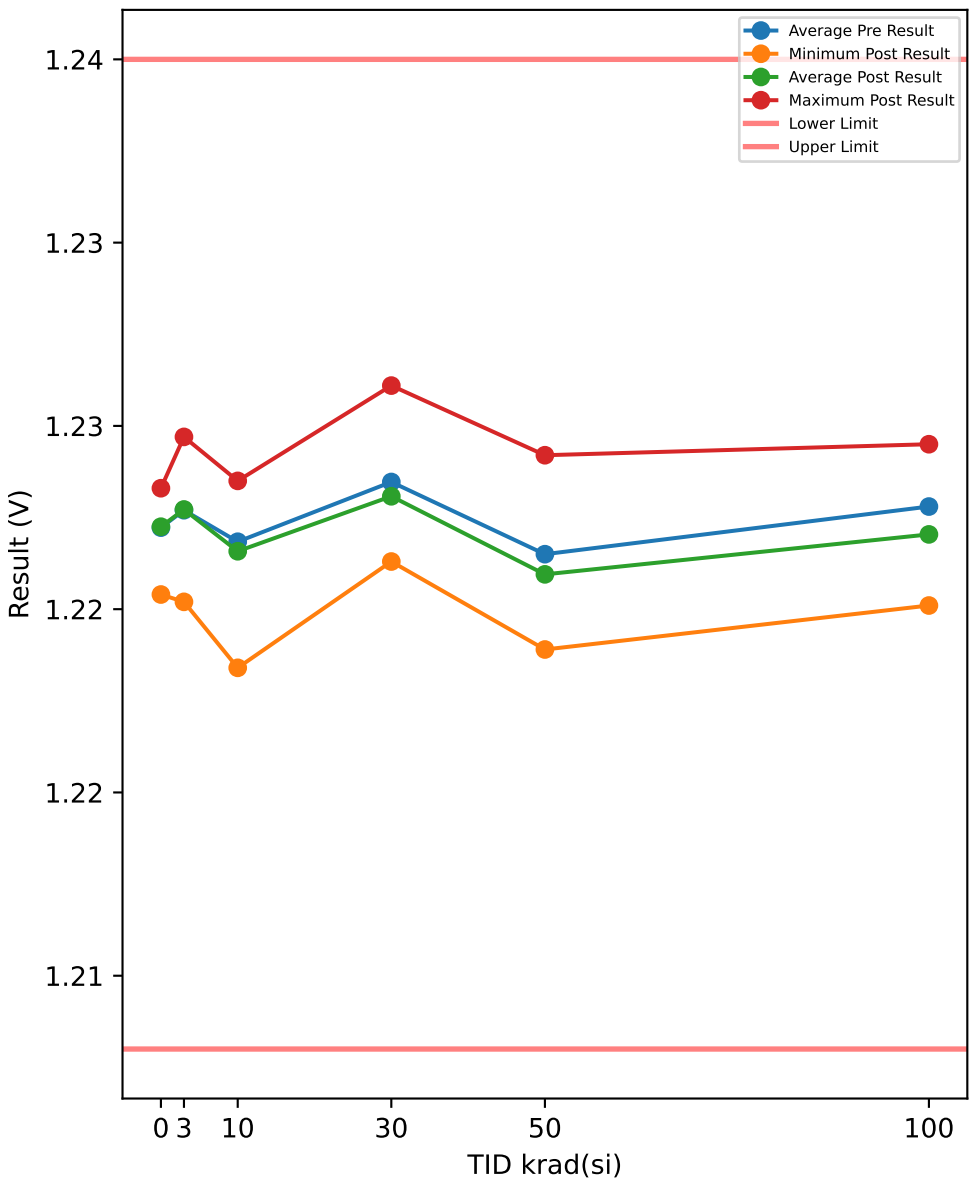
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2236	-0.0001
2	3	HDR BIAS	1.2222	1.2223	0.0001
3	3	HDR BIAS	1.2214	1.2216	0.0002
4	3	HDR BIAS	1.2243	1.2247	0.0004
5	3	HDR BIAS	1.2202	1.2202	0
6	3	HDR UNBIAS	1.2208	1.2207	-0.0001
7	3	HDR UNBIAS	1.2248	1.2244	-0.0004
8	3	HDR UNBIAS	1.2243	1.2245	0.0002
9	3	HDR UNBIAS	1.2217	1.2216	-0.0001
10	3	HDR UNBIAS	1.2236	1.2236	0
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2208	1.2207	-0.0001
14	10	HDR BIAS	1.2228	1.2226	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2205	1.2201	-0.0004
17	10	HDR UNBIAS	1.2216	1.2209	-0.0007
18	10	HDR UNBIAS	1.2214	1.221	-0.0004
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2232	1.2231	-0.0001
31	30	HDR BIAS	1.2248	1.2247	-0.0001
32	30	HDR BIAS	1.2227	1.2217	-0.001
33	30	HDR BIAS	1.2246	1.2244	-0.0002
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2214	-0.0004
36	30	HDR UNBIAS	1.2208	1.2213	0.0005
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2252	1.2241	-0.0011
40	30	HDR UNBIAS	1.2226	1.2223	-0.0003
41	50	HDR BIAS	1.22	1.2207	0.0007
42	50	HDR BIAS	1.2213	1.2204	-0.0009
43	50	HDR BIAS	1.2199	1.2189	-0.001
44	50	HDR BIAS	1.221	1.2199	-0.0011
45	50	HDR BIAS	1.2211	1.2206	-0.0005
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2212	1.2196	-0.0016
49	50	HDR UNBIAS	1.2211	1.221	-0.0001
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2239	1.2227	-0.0012
54	100	HDR BIAS	1.2217	1.2201	-0.0016
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2214	1.2216	0.0002
57	100	HDR UNBIAS	1.2223	1.2218	-0.0005
58	100	HDR UNBIAS	1.2239	1.2229	-0.001
59	100	HDR UNBIAS	1.2248	1.2246	-0.0002
60	100	HDR UNBIAS	1.2241	1.2238	-0.0003
91	0	CORRELATION	1.2203	1.2204	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2233	1.2232	-0.0001
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

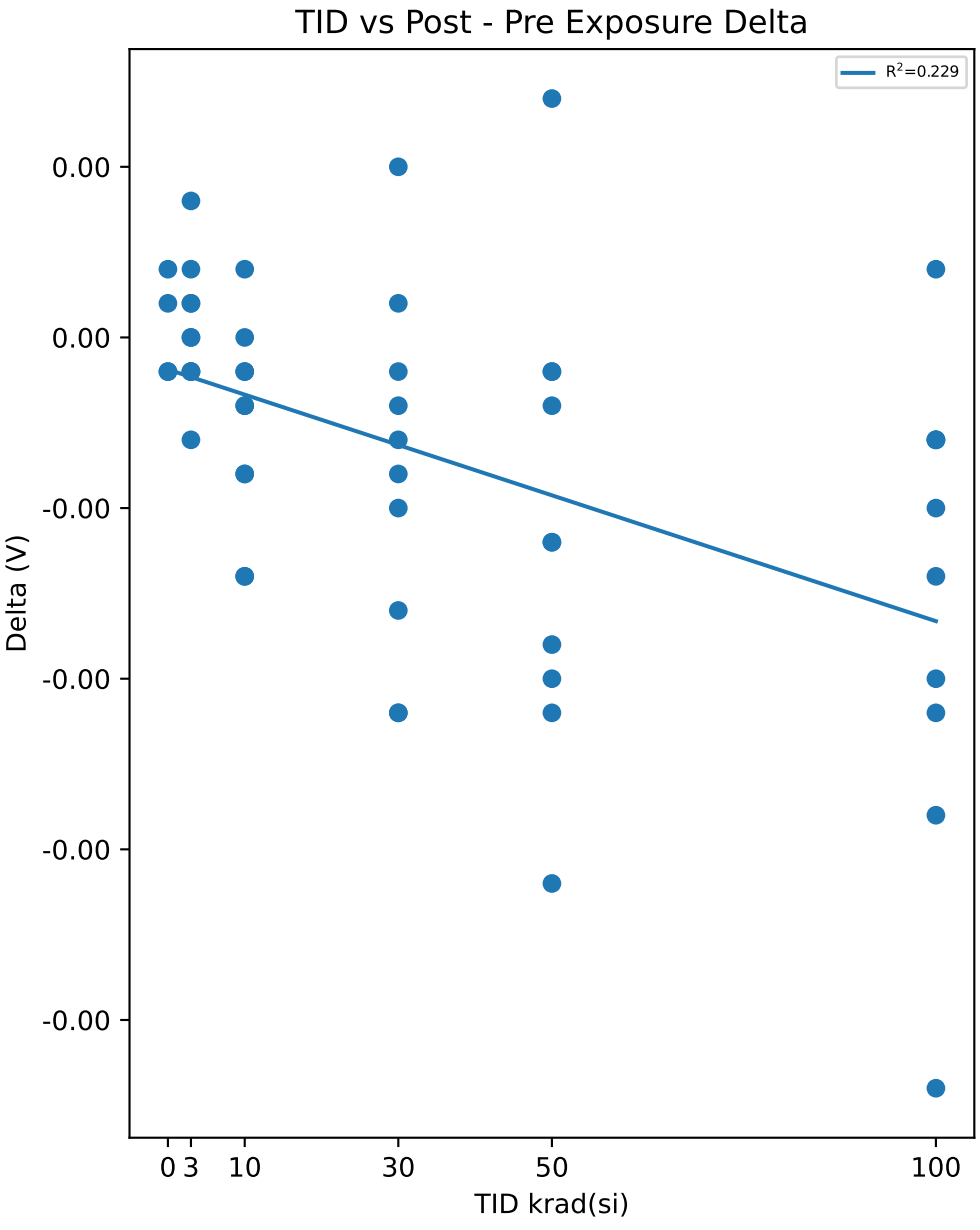
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2203	1.2222	1.2234	0.0014546	1.2204	1.2223	1.2233	0.0013478	-0.0001	2.5e-05	0.0002	0.00015
3	1.2202	1.2227	1.2248	0.0016377	1.2202	1.2227	1.2247	0.0016525	-0.0004	2e-05	0.0004	0.0002201
10	1.2191	1.2218	1.2237	0.0014214	1.2185	1.2216	1.2235	0.0015922	-0.0007	-0.00026	0.0002	0.0002675
30	1.2208	1.2235	1.2261	0.001654	1.2213	1.2231	1.2261	0.0016376	-0.0011	-0.00039	0.0005	0.00048637
50	1.2199	1.2215	1.2244	0.0014114	1.2189	1.2209	1.2242	0.0015672	-0.0016	-0.00054	0.0007	0.00065184
100	1.2204	1.2228	1.2248	0.001396	1.2201	1.222	1.2246	0.0014913	-0.0022	-0.00078	0.0002	0.00072694

Device Test: 21.27 VOLTAGE|VREF/VREF/8/8/0/1000/5/100kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



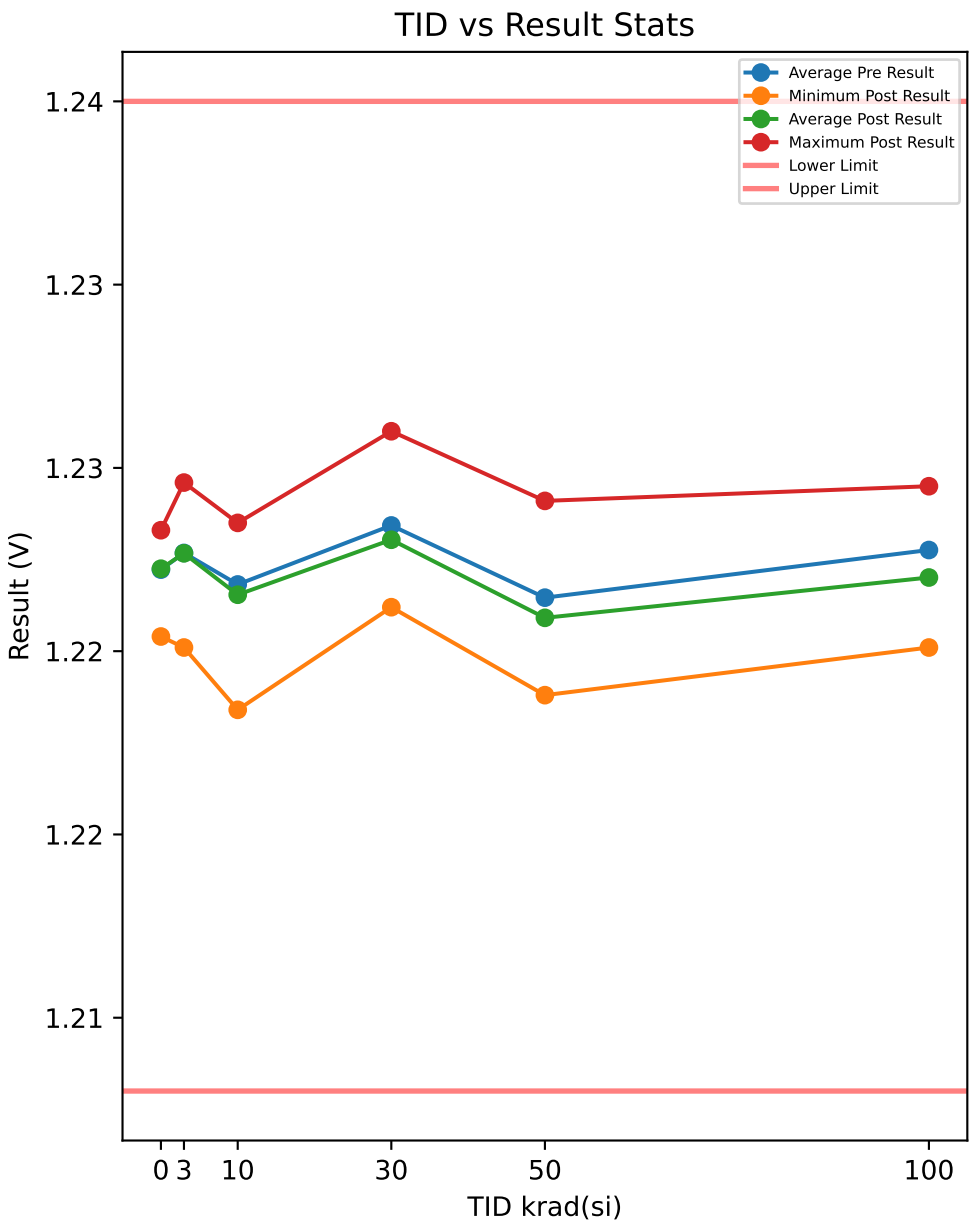
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

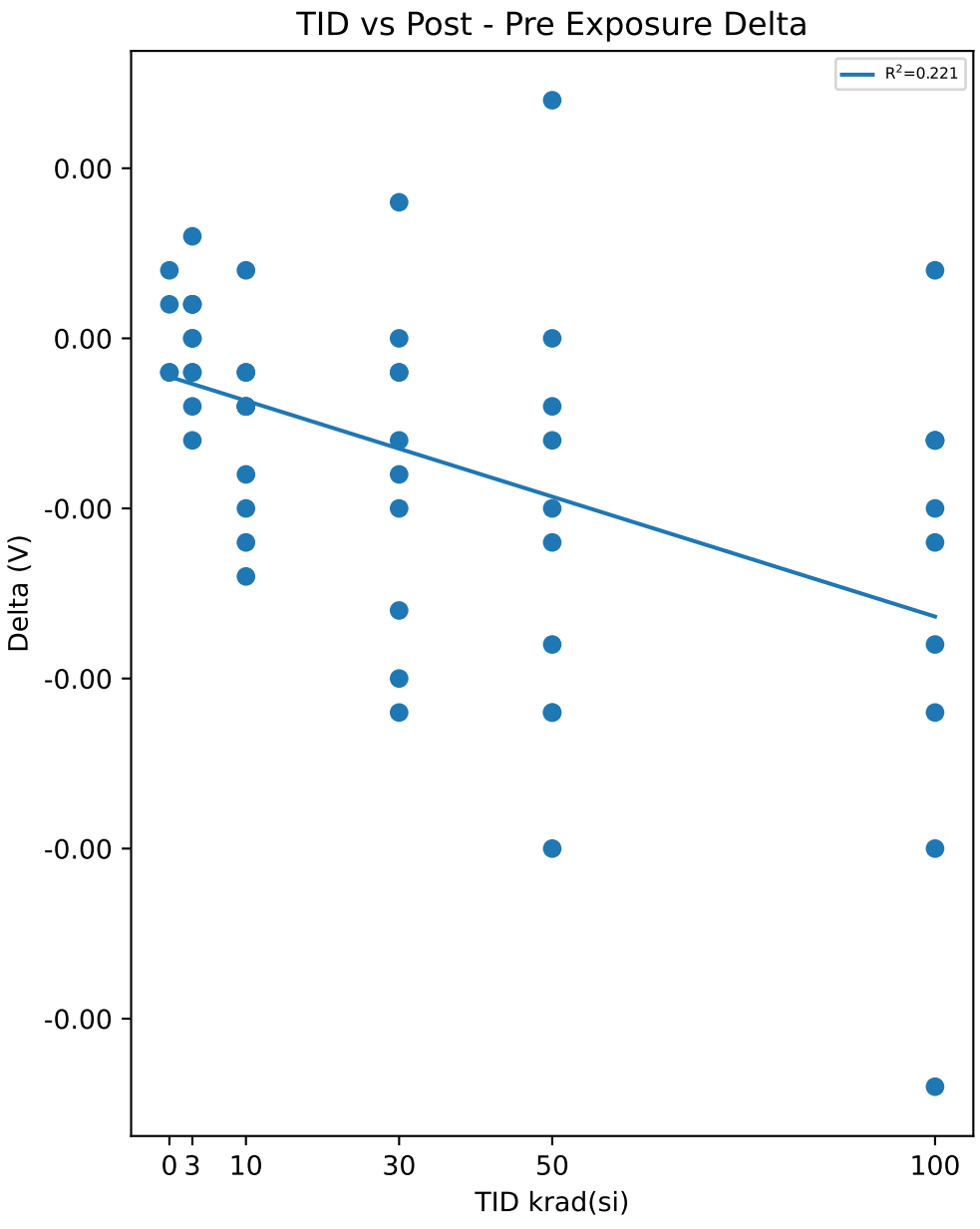
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2236	-0.0001
2	3	HDR BIAS	1.2222	1.2223	0.0001
3	3	HDR BIAS	1.2214	1.2216	0.0002
4	3	HDR BIAS	1.2243	1.2247	0.0004
5	3	HDR BIAS	1.2203	1.2202	-0.0001
6	3	HDR UNBIAS	1.2208	1.2207	-0.0001
7	3	HDR UNBIAS	1.2247	1.2244	-0.0003
8	3	HDR UNBIAS	1.2243	1.2244	0.0001
9	3	HDR UNBIAS	1.2217	1.2217	0
10	3	HDR UNBIAS	1.2236	1.2236	0
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.2191	1.2184	-0.0007
13	10	HDR BIAS	1.2208	1.2208	0
14	10	HDR BIAS	1.2228	1.2226	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2205	1.2201	-0.0004
17	10	HDR UNBIAS	1.2216	1.2209	-0.0007
18	10	HDR UNBIAS	1.2214	1.221	-0.0004
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2232	1.2231	-0.0001
31	30	HDR BIAS	1.2249	1.2247	-0.0002
32	30	HDR BIAS	1.2228	1.2217	-0.0011
33	30	HDR BIAS	1.2245	1.2244	-0.0001
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2214	-0.0004
36	30	HDR UNBIAS	1.2208	1.2213	0.0005
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.226	1.2261	0.0001
39	30	HDR UNBIAS	1.2252	1.2241	-0.0011
40	30	HDR UNBIAS	1.2226	1.2223	-0.0003
41	50	HDR BIAS	1.22	1.2207	0.0007
42	50	HDR BIAS	1.2213	1.2204	-0.0009
43	50	HDR BIAS	1.2199	1.2189	-0.001
44	50	HDR BIAS	1.221	1.2199	-0.0011
45	50	HDR BIAS	1.2212	1.2206	-0.0006
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2212	1.2196	-0.0016
49	50	HDR UNBIAS	1.2211	1.221	-0.0001
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2239	1.2228	-0.0011
54	100	HDR BIAS	1.2216	1.2202	-0.0014
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2223	1.2218	-0.0005
58	100	HDR UNBIAS	1.2239	1.2229	-0.001
59	100	HDR UNBIAS	1.2248	1.2245	-0.0003
60	100	HDR UNBIAS	1.2241	1.2238	-0.0003
91	0	CORRELATION	1.2203	1.2204	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2233	1.2232	-0.0001
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2203	1.2222	1.2234	0.0014546	1.2204	1.2223	1.2233	0.0013478	-0.0001	2.5e-05	0.0002	0.00015
3	1.2203	1.2227	1.2247	0.0016069	1.2202	1.2227	1.2247	0.0016335	-0.0003	2e-05	0.0004	0.00019322
10	1.2191	1.2218	1.2237	0.0014214	1.2184	1.2216	1.2235	0.0016082	-0.0007	-0.00026	0.0002	0.00029136
30	1.2208	1.2235	1.226	0.0016337	1.2213	1.2231	1.2261	0.0016376	-0.0011	-0.00039	0.0005	0.00051088
50	1.2199	1.2215	1.2244	0.0014087	1.2189	1.2209	1.2242	0.0015672	-0.0016	-0.00055	0.0007	0.00065192
100	1.2204	1.2228	1.2248	0.0013944	1.2201	1.222	1.2245	0.0014607	-0.0022	-0.00076	0.0002	0.00068993

Device Test: 21.29 VOLTAGE|VREF/VREF/8/8/0/1000/5/500kHz//@V_REFCAP





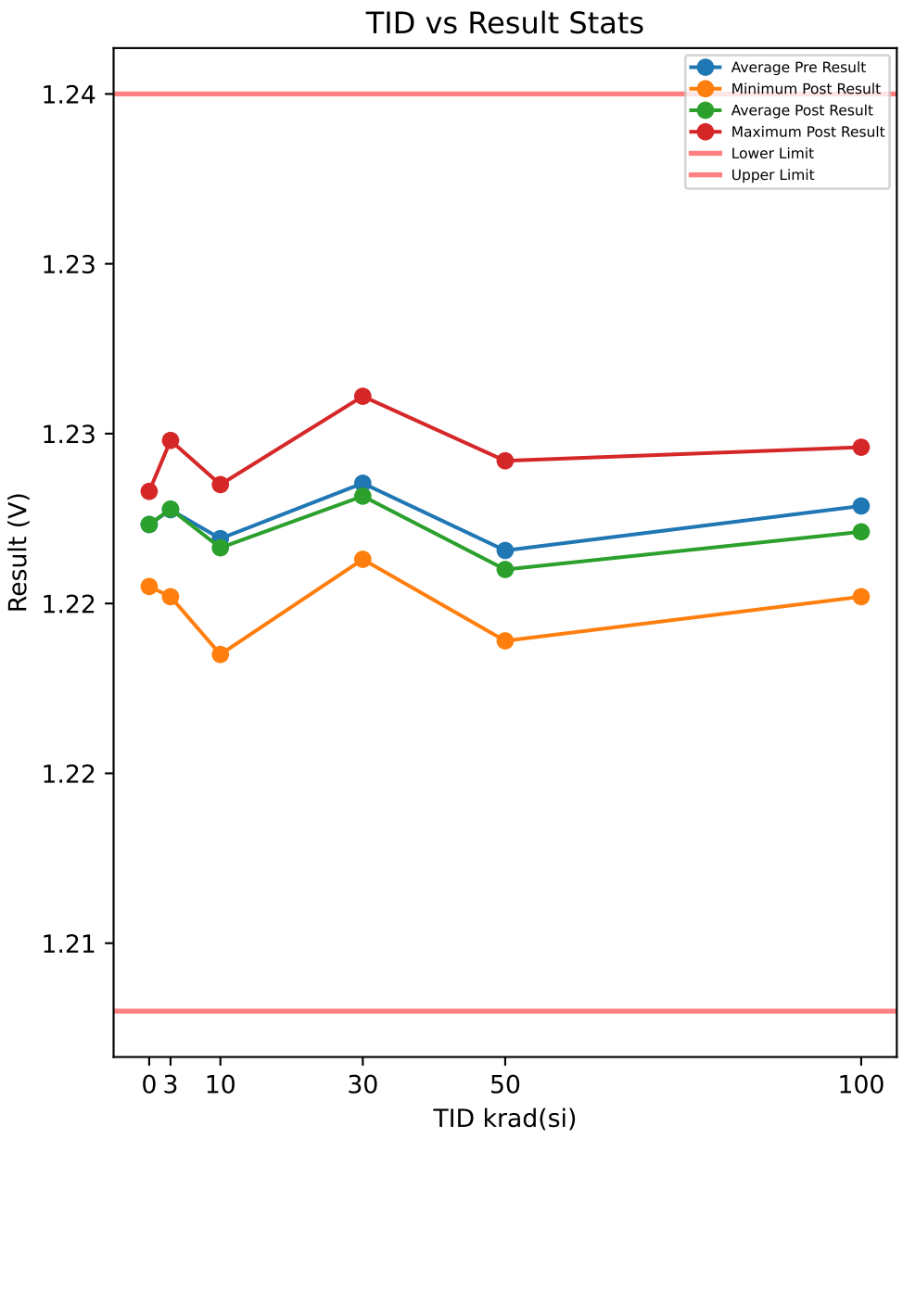
Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

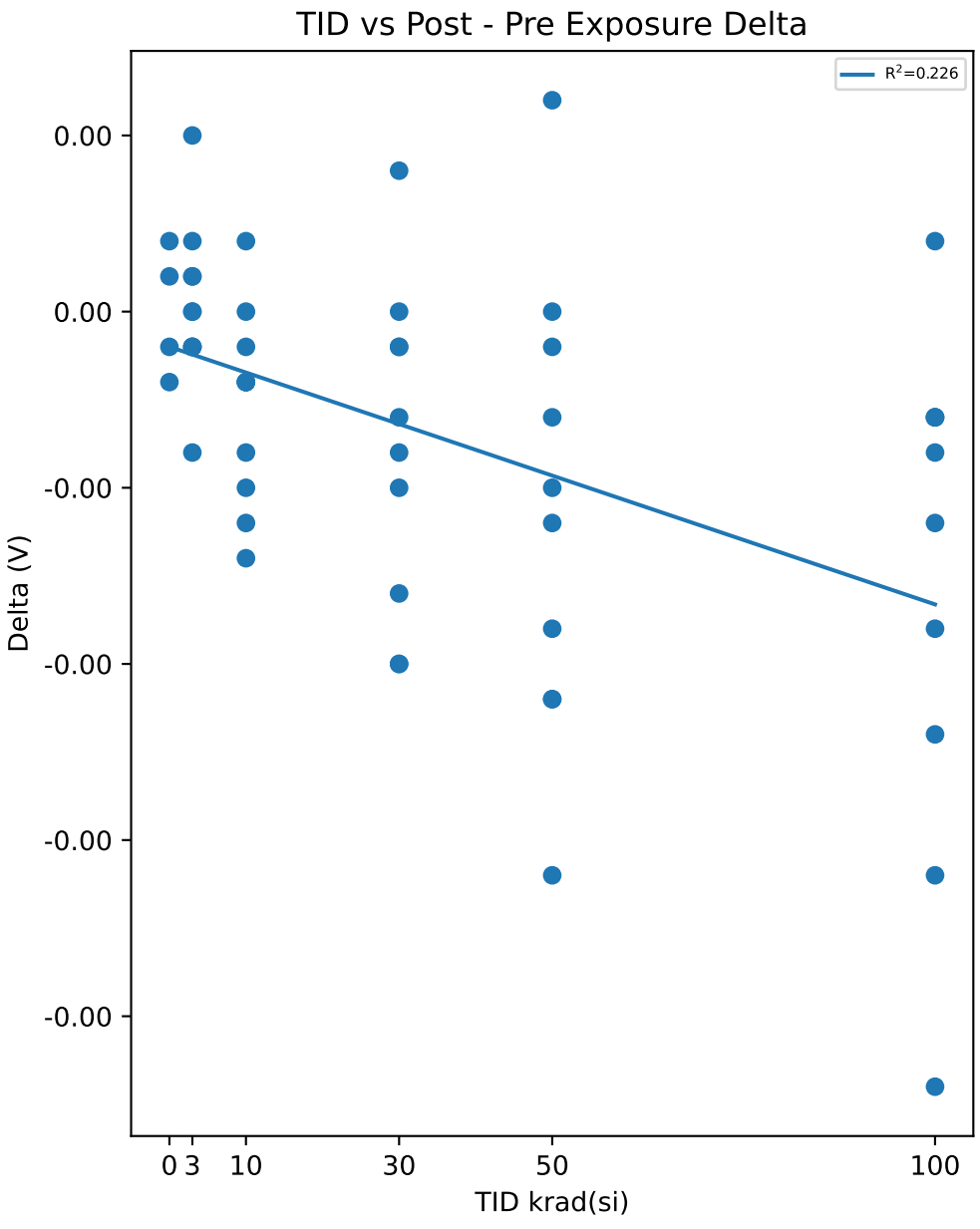
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2236	-0.0001
2	3	HDR BIAS	1.2222	1.2223	0.0001
3	3	HDR BIAS	1.2214	1.2215	0.0001
4	3	HDR BIAS	1.2243	1.2246	0.0003
5	3	HDR BIAS	1.2202	1.2201	-0.0001
6	3	HDR UNBIAS	1.2208	1.2206	-0.0002
7	3	HDR UNBIAS	1.2247	1.2244	-0.0003
8	3	HDR UNBIAS	1.2243	1.2244	0.0001
9	3	HDR UNBIAS	1.2216	1.2216	0
10	3	HDR UNBIAS	1.2236	1.2236	0
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.219	1.2184	-0.0006
13	10	HDR BIAS	1.2208	1.2207	-0.0001
14	10	HDR BIAS	1.2228	1.2226	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2205	1.22	-0.0005
17	10	HDR UNBIAS	1.2216	1.2209	-0.0007
18	10	HDR UNBIAS	1.2213	1.2209	-0.0004
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2232	1.223	-0.0002
31	30	HDR BIAS	1.2248	1.2247	-0.0001
32	30	HDR BIAS	1.2227	1.2216	-0.0011
33	30	HDR BIAS	1.2245	1.2244	-0.0001
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2214	-0.0004
36	30	HDR UNBIAS	1.2208	1.2212	0.0004
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.226	1.226	0
39	30	HDR UNBIAS	1.2251	1.2241	-0.001
40	30	HDR UNBIAS	1.2225	1.2222	-0.0003
41	50	HDR BIAS	1.22	1.2207	0.0007
42	50	HDR BIAS	1.2213	1.2204	-0.0009
43	50	HDR BIAS	1.2199	1.2188	-0.0011
44	50	HDR BIAS	1.221	1.2199	-0.0011
45	50	HDR BIAS	1.2211	1.2206	-0.0005
46	50	HDR UNBIAS	1.2234	1.2228	-0.0006
47	50	HDR UNBIAS	1.2214	1.2212	-0.0002
48	50	HDR UNBIAS	1.2211	1.2196	-0.0015
49	50	HDR UNBIAS	1.221	1.221	0
50	50	HDR UNBIAS	1.2244	1.2241	-0.0003
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2238	1.2227	-0.0011
54	100	HDR BIAS	1.2216	1.2201	-0.0015
55	100	HDR BIAS	1.2223	1.2217	-0.0006
56	100	HDR UNBIAS	1.2214	1.2216	0.0002
57	100	HDR UNBIAS	1.2223	1.2218	-0.0005
58	100	HDR UNBIAS	1.2238	1.2229	-0.0009
59	100	HDR UNBIAS	1.2248	1.2245	-0.0003
60	100	HDR UNBIAS	1.2241	1.2238	-0.0003
91	0	CORRELATION	1.2203	1.2204	0.0001
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2233	1.2232	-0.0001
94	0	CORRELATION	1.2219	1.2221	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2203	1.2222	1.2234	0.0014546	1.2204	1.2223	1.2233	0.0013478	-0.0001	2.5e-05	0.0002	0.00015
3	1.2202	1.2227	1.2247	0.0016308	1.2201	1.2227	1.2246	0.001666	-0.0003	-1e-05	0.0003	0.00017288
10	1.219	1.2218	1.2237	0.0014467	1.2184	1.2215	1.2235	0.0016181	-0.0007	-0.00028	0.0002	0.00026998
30	1.2208	1.2234	1.226	0.0016235	1.2212	1.223	1.226	0.0016447	-0.0011	-0.00039	0.0004	0.00047246
50	1.2199	1.2215	1.2244	0.0014017	1.2188	1.2209	1.2241	0.001543	-0.0015	-0.00055	0.0007	0.00063988
100	1.2204	1.2228	1.2248	0.0013914	1.2201	1.222	1.2245	0.0014723	-0.0022	-0.00075	0.0002	0.0006996

Device Test: 21.5 VOLTAGE|VREF/VREF/12/12/0/0/5/100kHz//@V_REFCAP





Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

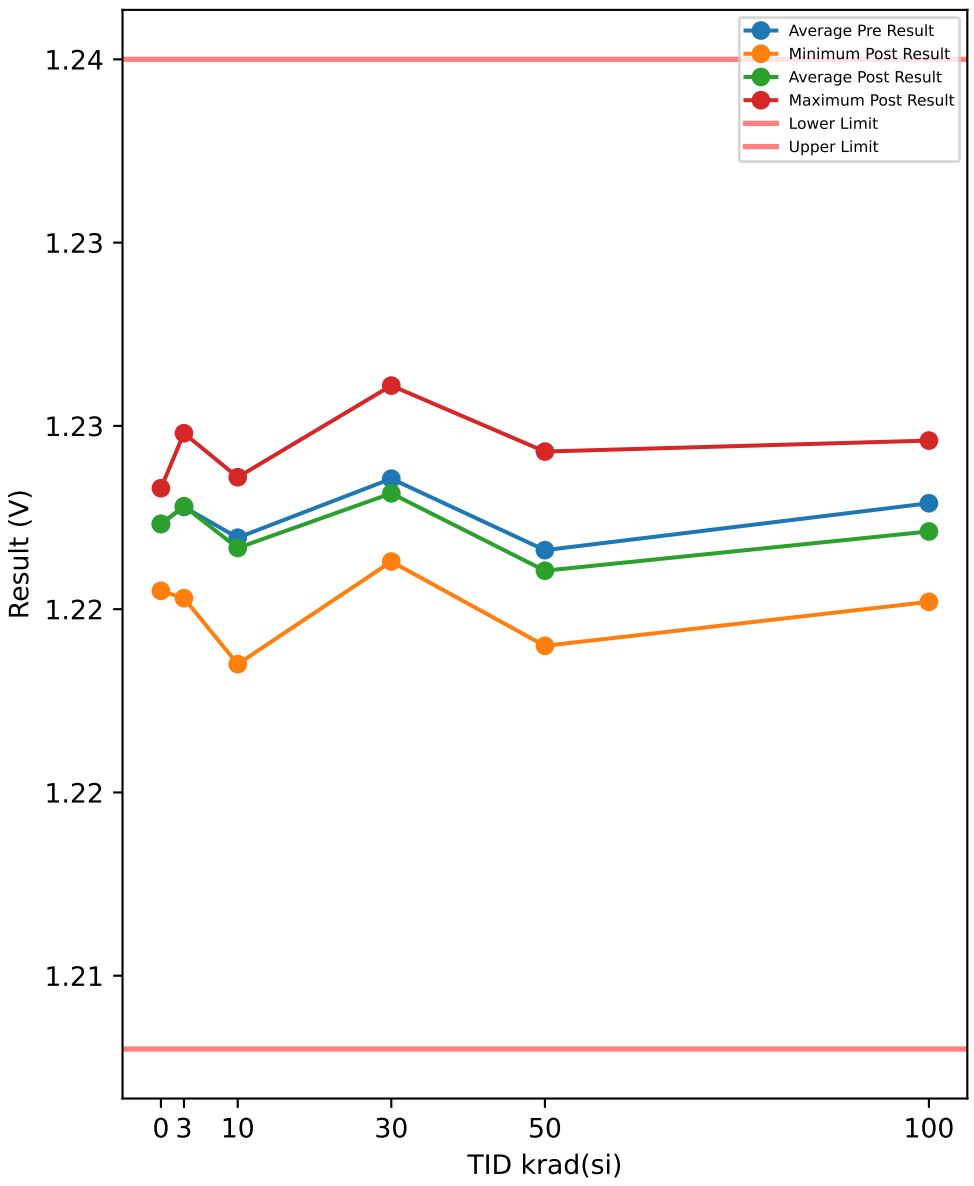
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2237	0
2	3	HDR BIAS	1.2222	1.2224	0.0002
3	3	HDR BIAS	1.2215	1.2216	0.0001
4	3	HDR BIAS	1.2243	1.2248	0.0005
5	3	HDR BIAS	1.2203	1.2202	-0.0001
6	3	HDR UNBIAS	1.2209	1.2208	-0.0001
7	3	HDR UNBIAS	1.2248	1.2244	-0.0004
8	3	HDR UNBIAS	1.2244	1.2245	0.0001
9	3	HDR UNBIAS	1.2218	1.2217	-0.0001
10	3	HDR UNBIAS	1.2237	1.2237	0
11	10	HDR BIAS	1.2227	1.2229	0.0002
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2209	1.2208	-0.0001
14	10	HDR BIAS	1.2229	1.2227	-0.0002
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2206	1.2201	-0.0005
17	10	HDR UNBIAS	1.2217	1.221	-0.0007
18	10	HDR UNBIAS	1.2215	1.2211	-0.0004
19	10	HDR UNBIAS	1.2227	1.2227	0
20	10	HDR UNBIAS	1.2233	1.2231	-0.0002
31	30	HDR BIAS	1.2249	1.2248	-0.0001
32	30	HDR BIAS	1.2228	1.2218	-0.001
33	30	HDR BIAS	1.2246	1.2245	-0.0001
34	30	HDR BIAS	1.2233	1.2228	-0.0005
35	30	HDR BIAS	1.2219	1.2215	-0.0004
36	30	HDR UNBIAS	1.2209	1.2213	0.0004
37	30	HDR UNBIAS	1.223	1.2222	-0.0008
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2252	1.2242	-0.001
40	30	HDR UNBIAS	1.2227	1.2224	-0.0003
41	50	HDR BIAS	1.2201	1.2207	0.0006
42	50	HDR BIAS	1.2214	1.2205	-0.0009
43	50	HDR BIAS	1.22	1.2189	-0.0011
44	50	HDR BIAS	1.2211	1.22	-0.0011
45	50	HDR BIAS	1.2212	1.2207	-0.0005
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2213	1.2197	-0.0016
49	50	HDR UNBIAS	1.2211	1.2211	0
50	50	HDR UNBIAS	1.2245	1.2242	-0.0003
51	100	HDR BIAS	1.2232	1.221	-0.0022
52	100	HDR BIAS	1.2205	1.2202	-0.0003
53	100	HDR BIAS	1.224	1.2228	-0.0012
54	100	HDR BIAS	1.2218	1.2202	-0.0016
55	100	HDR BIAS	1.2224	1.2218	-0.0006
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2223	1.2219	-0.0004
58	100	HDR UNBIAS	1.2239	1.223	-0.0009
59	100	HDR UNBIAS	1.2249	1.2246	-0.0003
60	100	HDR UNBIAS	1.2242	1.2239	-0.0003
91	0	CORRELATION	1.2204	1.2205	0.0001
92	0	CORRELATION	1.2235	1.2233	-0.0002
93	0	CORRELATION	1.2234	1.2233	-0.0001
94	0	CORRELATION	1.222	1.2222	0.0002

Test Statistics (V)

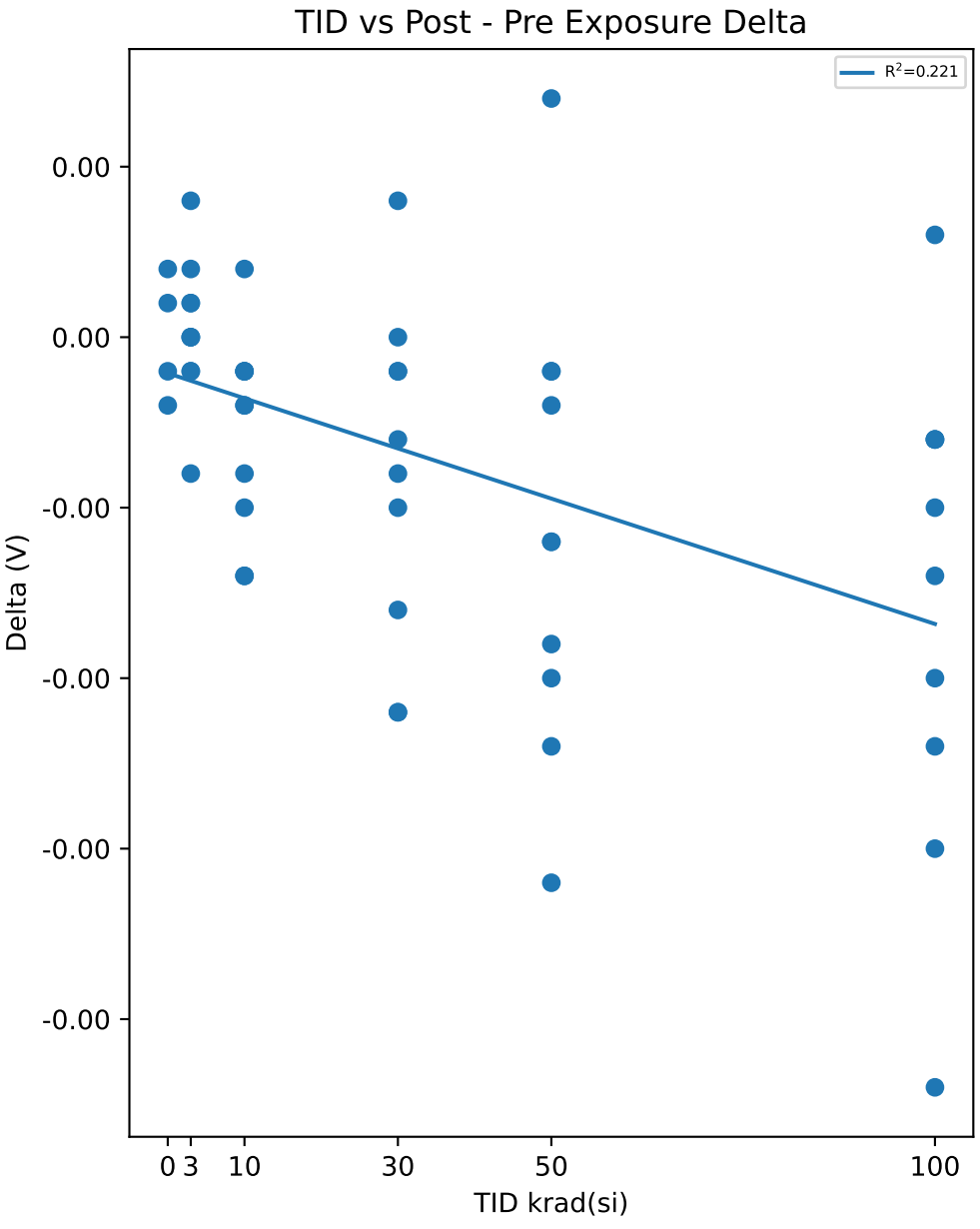
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2235	0.0014546	1.2205	1.2223	1.2233	0.0013226	-0.0002	0	0.0002	0.00018257
3	1.2203	1.2228	1.2248	0.0016098	1.2202	1.2228	1.2248	0.0016545	-0.0004	2e-05	0.0005	0.00023476
10	1.2191	1.2219	1.2237	0.0014224	1.2185	1.2216	1.2235	0.0016008	-0.0007	-0.00027	0.0002	0.00027909
30	1.2209	1.2235	1.2261	0.0016174	1.2213	1.2232	1.2261	0.0016297	-0.001	-0.00038	0.0004	0.00045656
50	1.22	1.2216	1.2245	0.0014002	1.2189	1.221	1.2242	0.0015449	-0.0016	-0.00056	0.0006	0.00064326
100	1.2205	1.2229	1.2249	0.0013953	1.2202	1.2221	1.2246	0.0014723	-0.0022	-0.00076	0.0002	0.00072296

Device Test: 21.7 VOLTAGE|VREF/VREF/14/14/0/0/5/100kHz//@V_REFCAP

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

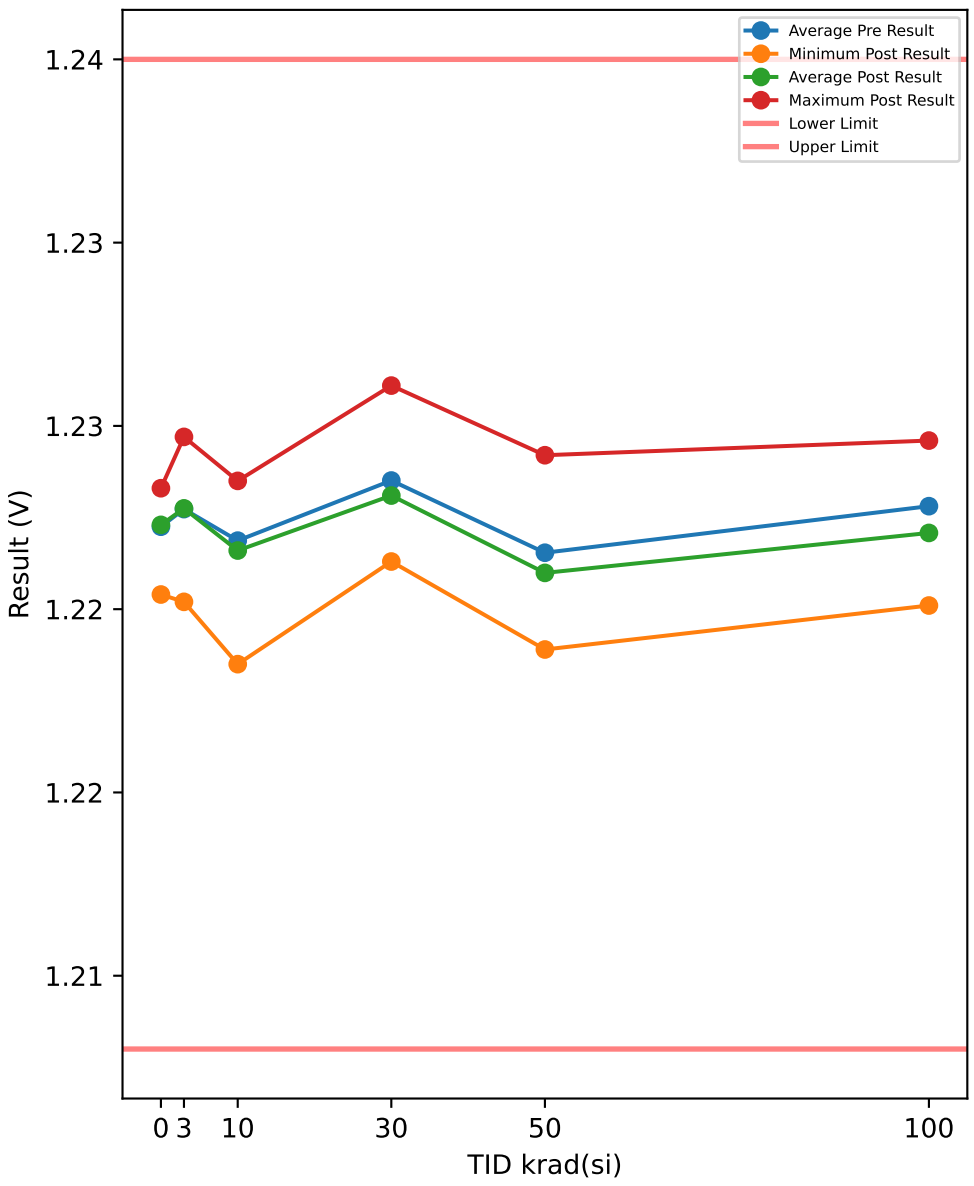
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2238	1.2237	-0.0001
2	3	HDR BIAS	1.2223	1.2224	0.0001
3	3	HDR BIAS	1.2215	1.2217	0.0002
4	3	HDR BIAS	1.2244	1.2248	0.0004
5	3	HDR BIAS	1.2203	1.2203	0
6	3	HDR UNBIAS	1.2209	1.2208	-0.0001
7	3	HDR UNBIAS	1.2248	1.2244	-0.0004
8	3	HDR UNBIAS	1.2244	1.2245	0.0001
9	3	HDR UNBIAS	1.2218	1.2218	0
10	3	HDR UNBIAS	1.2237	1.2237	0
11	10	HDR BIAS	1.2227	1.2229	0.0002
12	10	HDR BIAS	1.2192	1.2185	-0.0007
13	10	HDR BIAS	1.2209	1.2208	-0.0001
14	10	HDR BIAS	1.2229	1.2227	-0.0002
15	10	HDR BIAS	1.2238	1.2236	-0.0002
16	10	HDR UNBIAS	1.2207	1.2202	-0.0005
17	10	HDR UNBIAS	1.2217	1.221	-0.0007
18	10	HDR UNBIAS	1.2215	1.2211	-0.0004
19	10	HDR UNBIAS	1.2228	1.2227	-0.0001
20	10	HDR UNBIAS	1.2233	1.2232	-0.0001
31	30	HDR BIAS	1.2249	1.2248	-0.0001
32	30	HDR BIAS	1.2229	1.2218	-0.0011
33	30	HDR BIAS	1.2246	1.2245	-0.0001
34	30	HDR BIAS	1.2233	1.2228	-0.0005
35	30	HDR BIAS	1.2219	1.2215	-0.0004
36	30	HDR UNBIAS	1.2209	1.2213	0.0004
37	30	HDR UNBIAS	1.223	1.2222	-0.0008
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2253	1.2242	-0.0011
40	30	HDR UNBIAS	1.2227	1.2224	-0.0003
41	50	HDR BIAS	1.2201	1.2208	0.0007
42	50	HDR BIAS	1.2214	1.2205	-0.0009
43	50	HDR BIAS	1.22	1.219	-0.001
44	50	HDR BIAS	1.2212	1.22	-0.0012
45	50	HDR BIAS	1.2213	1.2207	-0.0006
46	50	HDR UNBIAS	1.2236	1.223	-0.0006
47	50	HDR UNBIAS	1.2215	1.2214	-0.0001
48	50	HDR UNBIAS	1.2213	1.2197	-0.0016
49	50	HDR UNBIAS	1.2212	1.2211	-0.0001
50	50	HDR UNBIAS	1.2245	1.2243	-0.0002
51	100	HDR BIAS	1.2232	1.221	-0.0022
52	100	HDR BIAS	1.2205	1.2202	-0.0003
53	100	HDR BIAS	1.224	1.2228	-0.0012
54	100	HDR BIAS	1.2217	1.2202	-0.0015
55	100	HDR BIAS	1.2225	1.2218	-0.0007
56	100	HDR UNBIAS	1.2215	1.2218	0.0003
57	100	HDR UNBIAS	1.2224	1.2219	-0.0005
58	100	HDR UNBIAS	1.224	1.223	-0.001
59	100	HDR UNBIAS	1.2249	1.2246	-0.0003
60	100	HDR UNBIAS	1.2242	1.2239	-0.0003
91	0	CORRELATION	1.2204	1.2205	0.0001
92	0	CORRELATION	1.2235	1.2233	-0.0002
93	0	CORRELATION	1.2234	1.2233	-0.0001
94	0	CORRELATION	1.222	1.2222	0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2235	0.0014546	1.2205	1.2223	1.2233	0.0013226	-0.0002	0	0.0002	0.00018257
3	1.2203	1.2228	1.2248	0.0016237	1.2203	1.2228	1.2248	0.0016224	-0.0004	2e-05	0.0004	0.00020976
10	1.2192	1.222	1.2238	0.0014113	1.2185	1.2217	1.2236	0.0016139	-0.0007	-0.00028	0.0002	0.00028983
30	1.2209	1.2236	1.2261	0.0016243	1.2213	1.2232	1.2261	0.0016297	-0.0011	-0.0004	0.0004	0.00048762
50	1.22	1.2216	1.2245	0.0014051	1.219	1.221	1.2243	0.0015672	-0.0016	-0.00056	0.0007	0.00066198
100	1.2205	1.2229	1.2249	0.0014051	1.2202	1.2221	1.2246	0.0014695	-0.0022	-0.00077	0.0003	0.00072273

Device Test: 21.9 VOLTAGE|VREF/VREF/12/12/0/0/5/500kHz//@V_REFCAP

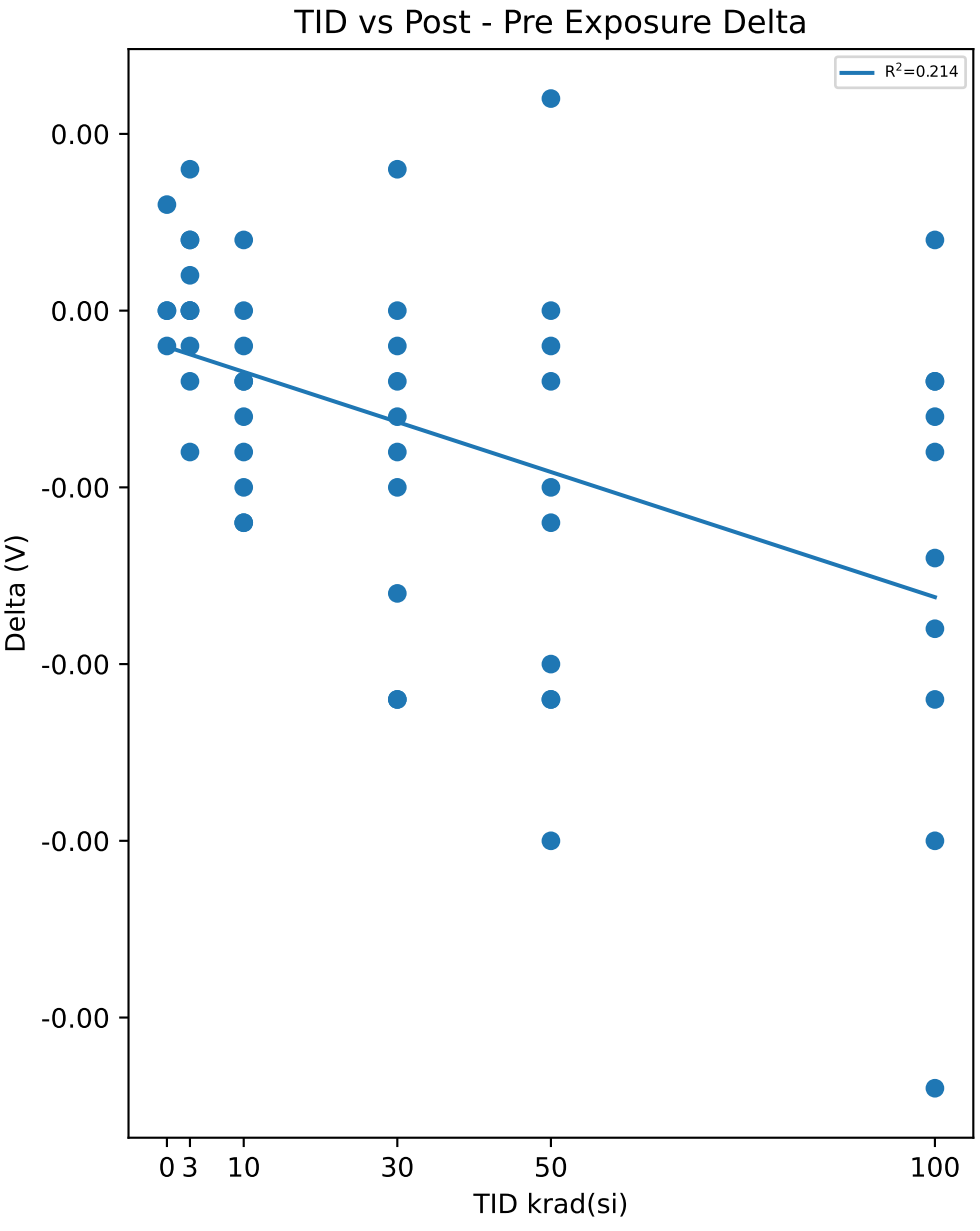
TID vs Result Stats



Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.2237	1.2237	0
2	3	HDR BIAS	1.2222	1.2224	0.0002
3	3	HDR BIAS	1.2215	1.2216	0.0001
4	3	HDR BIAS	1.2243	1.2247	0.0004
5	3	HDR BIAS	1.2203	1.2202	-0.0001
6	3	HDR UNBIAS	1.2209	1.2207	-0.0002
7	3	HDR UNBIAS	1.2248	1.2244	-0.0004
8	3	HDR UNBIAS	1.2243	1.2245	0.0002
9	3	HDR UNBIAS	1.2217	1.2217	0
10	3	HDR UNBIAS	1.2236	1.2236	0
11	10	HDR BIAS	1.2226	1.2228	0.0002
12	10	HDR BIAS	1.2191	1.2185	-0.0006
13	10	HDR BIAS	1.2208	1.2208	0
14	10	HDR BIAS	1.2229	1.2226	-0.0003
15	10	HDR BIAS	1.2237	1.2235	-0.0002
16	10	HDR UNBIAS	1.2206	1.2201	-0.0005
17	10	HDR UNBIAS	1.2216	1.221	-0.0006
18	10	HDR UNBIAS	1.2214	1.221	-0.0004
19	10	HDR UNBIAS	1.2227	1.2226	-0.0001
20	10	HDR UNBIAS	1.2233	1.2231	-0.0002
31	30	HDR BIAS	1.2249	1.2248	-0.0001
32	30	HDR BIAS	1.2228	1.2217	-0.0011
33	30	HDR BIAS	1.2246	1.2244	-0.0002
34	30	HDR BIAS	1.2232	1.2227	-0.0005
35	30	HDR BIAS	1.2218	1.2215	-0.0003
36	30	HDR UNBIAS	1.2209	1.2213	0.0004
37	30	HDR UNBIAS	1.2229	1.2221	-0.0008
38	30	HDR UNBIAS	1.2261	1.2261	0
39	30	HDR UNBIAS	1.2252	1.2241	-0.0011
40	30	HDR UNBIAS	1.2227	1.2223	-0.0004
41	50	HDR BIAS	1.2201	1.2207	0.0006
42	50	HDR BIAS	1.2214	1.2204	-0.001
43	50	HDR BIAS	1.22	1.2189	-0.0011
44	50	HDR BIAS	1.2211	1.22	-0.0011
45	50	HDR BIAS	1.2212	1.2207	-0.0005
46	50	HDR UNBIAS	1.2235	1.2229	-0.0006
47	50	HDR UNBIAS	1.2214	1.2213	-0.0001
48	50	HDR UNBIAS	1.2212	1.2197	-0.0015
49	50	HDR UNBIAS	1.2211	1.2211	0
50	50	HDR UNBIAS	1.2244	1.2242	-0.0002
51	100	HDR BIAS	1.2231	1.2209	-0.0022
52	100	HDR BIAS	1.2204	1.2201	-0.0003
53	100	HDR BIAS	1.2239	1.2228	-0.0011
54	100	HDR BIAS	1.2217	1.2202	-0.0015
55	100	HDR BIAS	1.2224	1.2217	-0.0007
56	100	HDR UNBIAS	1.2215	1.2217	0.0002
57	100	HDR UNBIAS	1.2223	1.2219	-0.0004
58	100	HDR UNBIAS	1.2239	1.223	-0.0009
59	100	HDR UNBIAS	1.2248	1.2246	-0.0002
60	100	HDR UNBIAS	1.2241	1.2239	-0.0002
91	0	CORRELATION	1.2204	1.2204	0
92	0	CORRELATION	1.2234	1.2233	-0.0001
93	0	CORRELATION	1.2233	1.2233	0
94	0	CORRELATION	1.2219	1.2222	0.0003

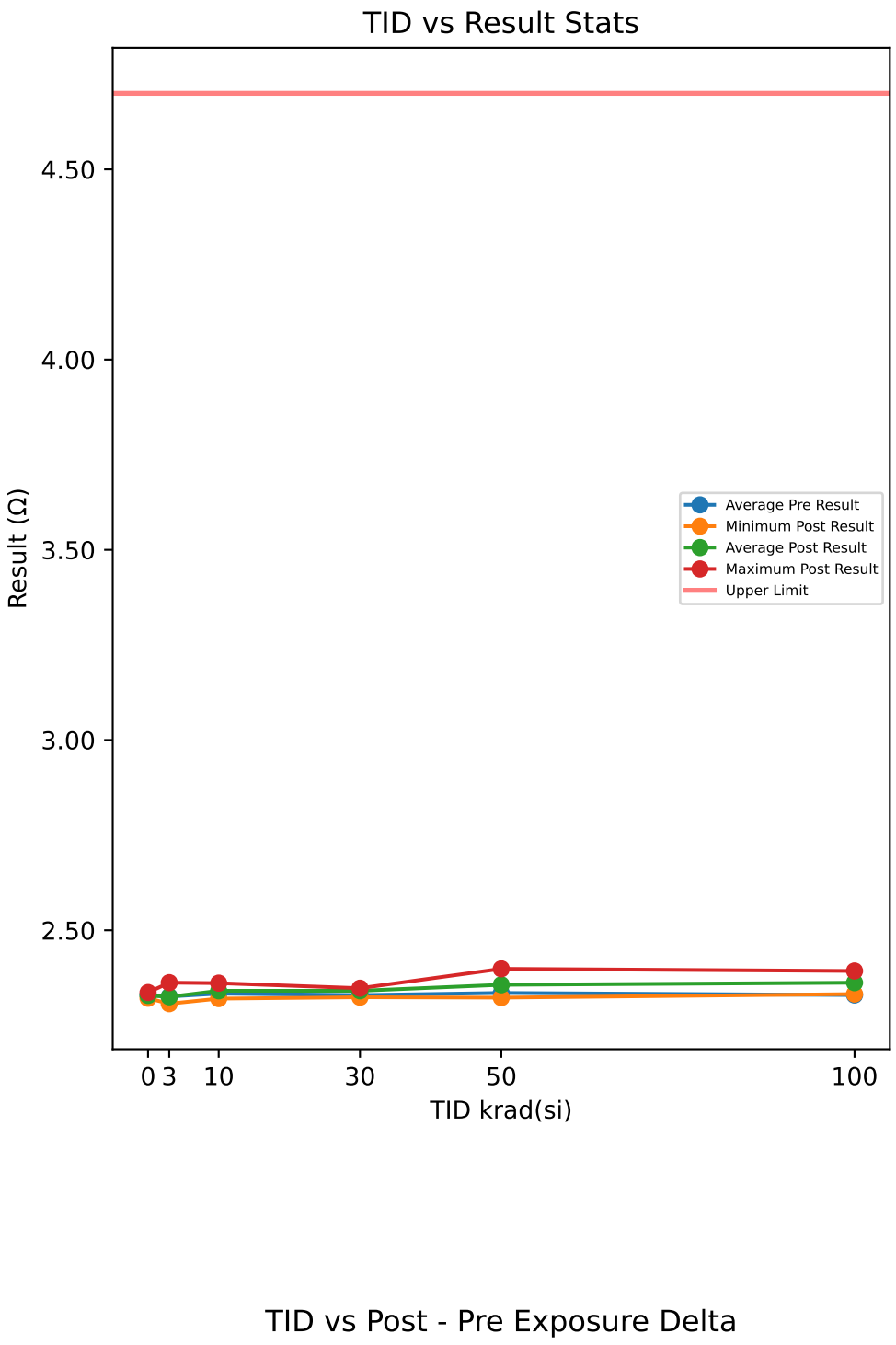
TID vs Post - Pre Exposure Delta

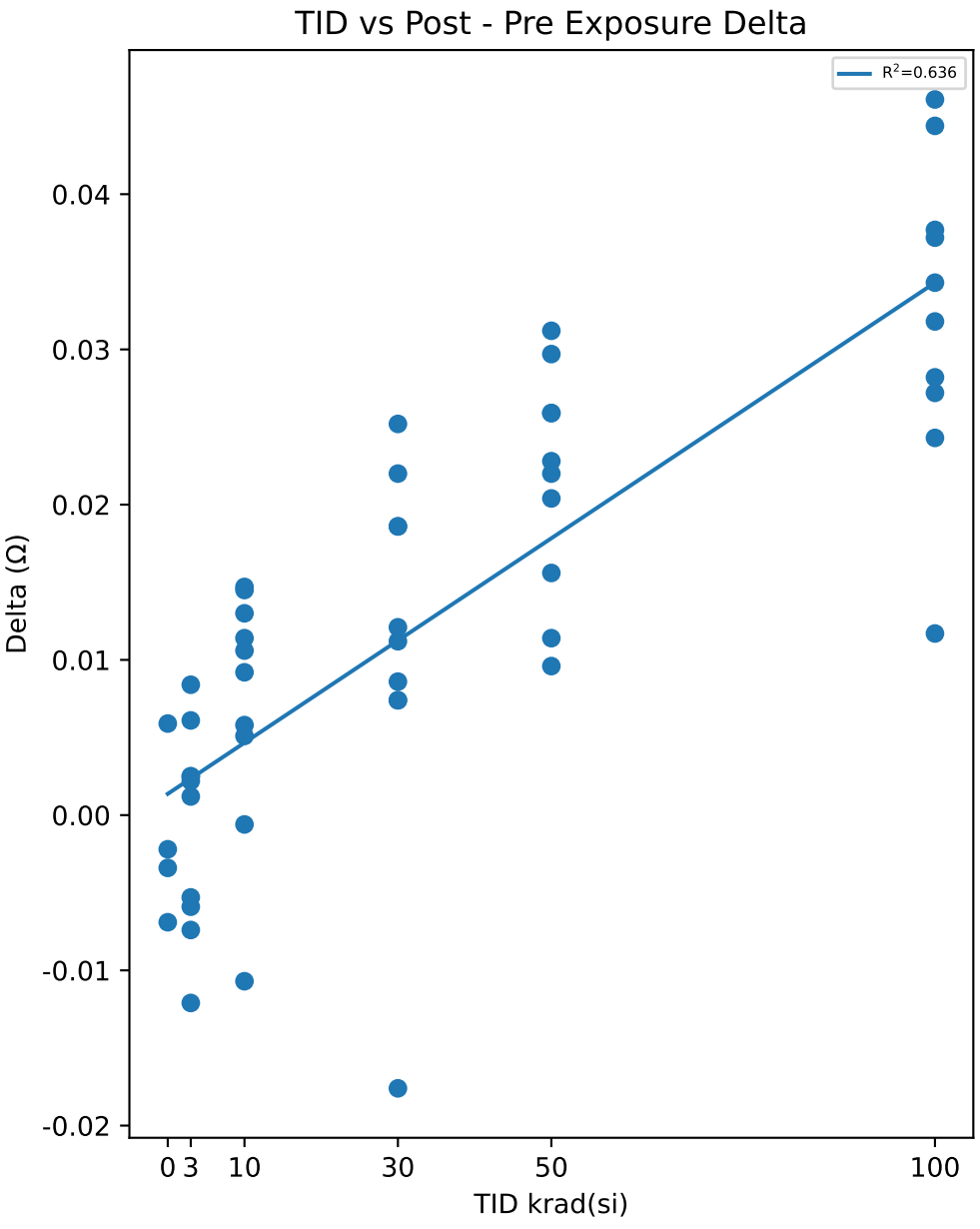


Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2234	0.0014107	1.2204	1.2223	1.2233	0.0013687	-0.0001	5e-05	0.0003	0.00017321
3	1.2203	1.2227	1.2248	0.0015993	1.2202	1.2228	1.2247	0.0016487	-0.0004	2e-05	0.0004	0.00022509
10	1.2191	1.2219	1.2237	0.0014299	1.2185	1.2216	1.2235	0.0015818	-0.0006	-0.00027	0.0002	0.00026268
30	1.2209	1.2235	1.2261	0.0016347	1.2213	1.2231	1.2261	0.0016377	-0.0011	-0.00041	0.0004	0.00048178
50	1.22	1.2215	1.2244	0.0013794	1.2189	1.221	1.2242	0.0015488	-0.0015	-0.00055	0.0006	0.00063814
100	1.2204	1.2228	1.2248	0.0013852	1.2201	1.2221	1.2246	0.001498	-0.0022	-0.00073	0.0002	0.0007181

Device Test: 23.19 LEVEL|HS_RDSON/OUTH/12/12/100/0/5/500kHz//@ROH





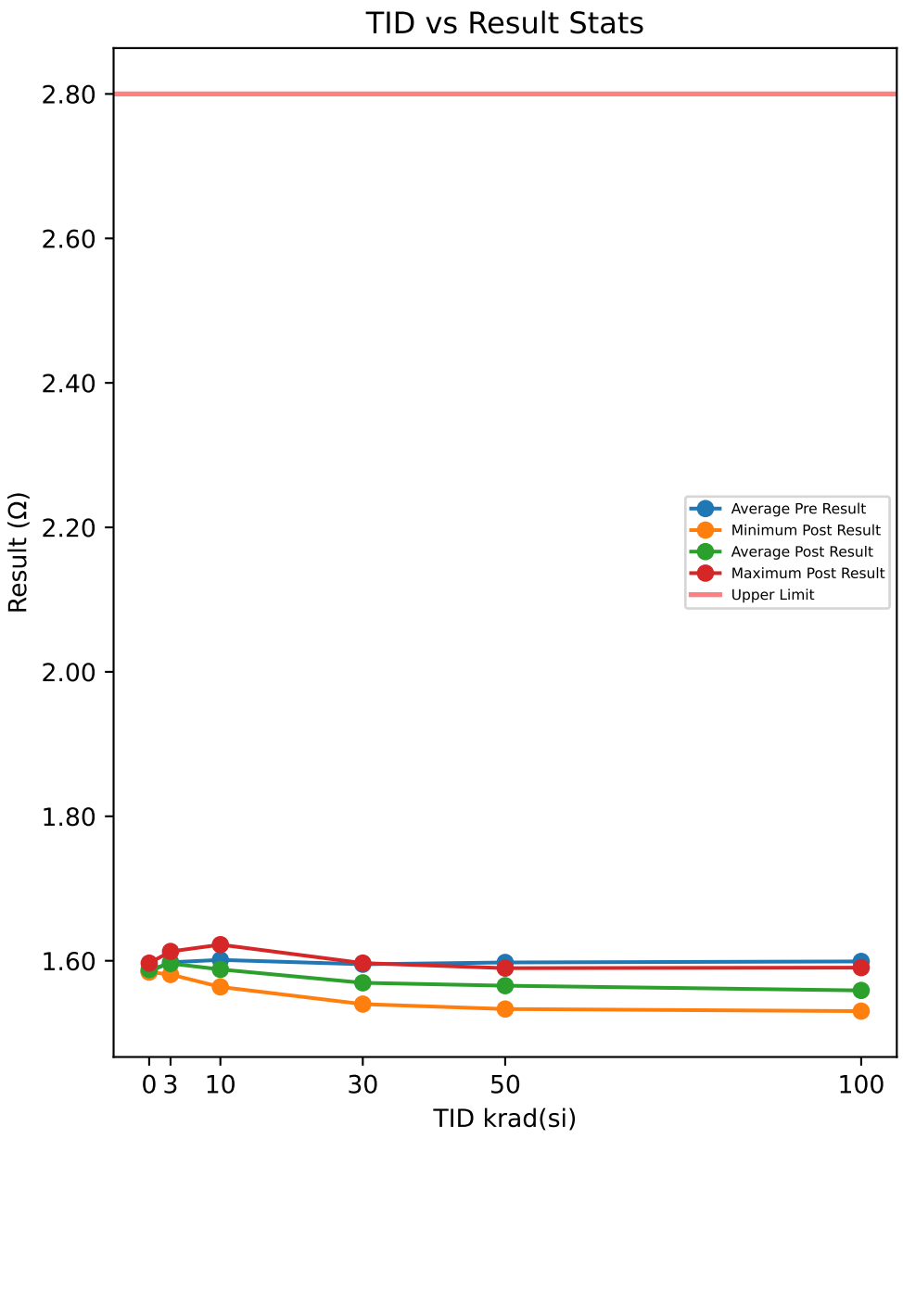
Test Results (Upper Limit = 4.7 (Ω))

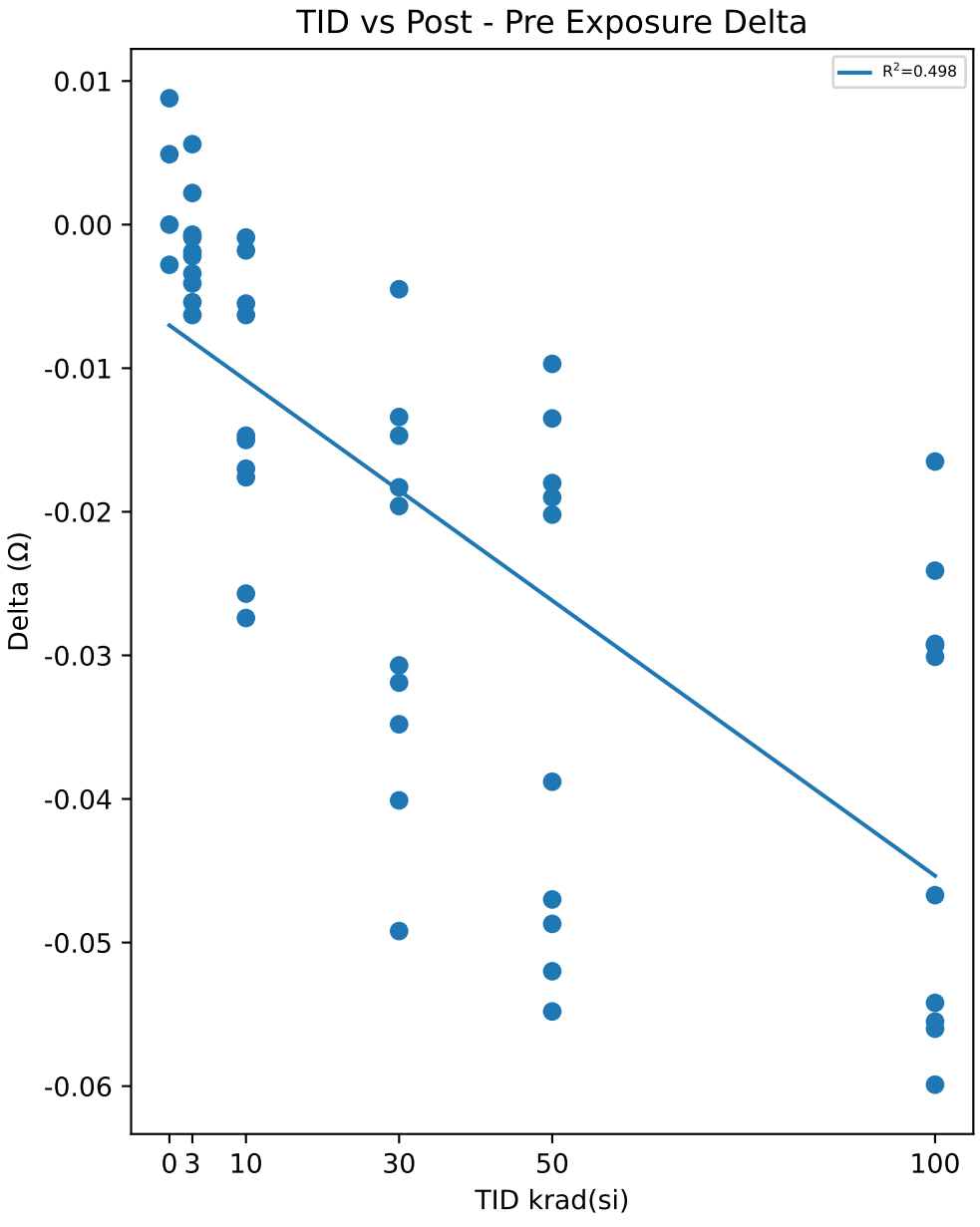
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.3296	2.3175	-0.0121
2	3	HDR BIAS	2.3117	2.3142	0.0025
3	3	HDR BIAS	2.3539	2.3623	0.0084
4	3	HDR BIAS	2.3185	2.3126	-0.0059
5	3	HDR BIAS	2.3058	2.307	0.0012
6	3	HDR UNBIAS	2.3373	2.3434	0.0061
7	3	HDR UNBIAS	2.3198	2.3145	-0.0053
8	3	HDR UNBIAS	2.3321	2.3343	0.0022
9	3	HDR UNBIAS	2.3295	2.332	0.0025
10	3	HDR UNBIAS	2.3211	2.3137	-0.0074
11	10	HDR BIAS	2.3089	2.3234	0.0145
12	10	HDR BIAS	2.3463	2.361	0.0147
13	10	HDR BIAS	2.3311	2.3204	-0.0107
14	10	HDR BIAS	2.3401	2.3507	0.0106
15	10	HDR BIAS	2.328	2.341	0.013
16	10	HDR UNBIAS	2.3373	2.3367	-0.0006
17	10	HDR UNBIAS	2.3517	2.3575	0.0058
18	10	HDR UNBIAS	2.3264	2.3356	0.0092
19	10	HDR UNBIAS	2.349	2.3541	0.0051
20	10	HDR UNBIAS	2.317	2.3284	0.0114
31	30	HDR BIAS	2.3301	2.3375	0.0074
32	30	HDR BIAS	2.3257	2.3477	0.022
33	30	HDR BIAS	2.3355	2.3441	0.0086
34	30	HDR BIAS	2.3355	2.3429	0.0074
35	30	HDR BIAS	2.3259	2.3445	0.0186
36	30	HDR UNBIAS	2.3339	2.346	0.0121
37	30	HDR UNBIAS	2.3416	2.324	-0.0176
38	30	HDR UNBIAS	2.3277	2.3389	0.0112
39	30	HDR UNBIAS	2.3134	2.3386	0.0252
40	30	HDR UNBIAS	2.3267	2.3453	0.0186
41	50	HDR BIAS	2.3074	2.323	0.0156
42	50	HDR BIAS	2.316	2.3472	0.0312
43	50	HDR BIAS	2.3727	2.3986	0.0259
44	50	HDR BIAS	2.3259	2.3556	0.0297
45	50	HDR BIAS	2.3363	2.3567	0.0204
46	50	HDR UNBIAS	2.3446	2.3542	0.0096
47	50	HDR UNBIAS	2.3233	2.3461	0.0228
48	50	HDR UNBIAS	2.3417	2.3676	0.0259
49	50	HDR UNBIAS	2.3673	2.3787	0.0114
50	50	HDR UNBIAS	2.3173	2.3393	0.022
51	100	HDR BIAS	2.3469	2.393	0.0461
52	100	HDR BIAS	2.3229	2.3547	0.0318
53	100	HDR BIAS	2.3463	2.3735	0.0272
54	100	HDR BIAS	2.3364	2.3736	0.0372
55	100	HDR BIAS	2.3249	2.3626	0.0377
56	100	HDR UNBIAS	2.3463	2.3806	0.0343
57	100	HDR UNBIAS	2.3117	2.336	0.0243
58	100	HDR UNBIAS	2.3206	2.3323	0.0117
59	100	HDR UNBIAS	2.3269	2.3713	0.0444
60	100	HDR UNBIAS	2.3159	2.3441	0.0282
91	0	CORRELATION	2.3306	2.3237	-0.0069
92	0	CORRELATION	2.3248	2.3214	-0.0034
93	0	CORRELATION	2.3353	2.3331	-0.0022
94	0	CORRELATION	2.3304	2.3363	0.0059

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3248	2.3303	2.3353	0.0042952	2.3214	2.3286	2.3363	0.0071969	-0.0069	-0.00165	0.0059	0.0054139
3	2.3058	2.3259	2.3539	0.013742	2.307	2.3251	2.3623	0.017492	-0.0121	-0.00078	0.0084	0.0065365
10	2.3089	2.3336	2.3517	0.013973	2.3204	2.3409	2.361	0.014447	-0.0107	0.0073	0.0147	0.0079155
30	2.3134	2.3296	2.3416	0.0077152	2.324	2.341	2.3477	0.0068738	-0.0176	0.01135	0.0252	0.011962
50	2.3074	2.3352	2.3727	0.021752	2.323	2.3567	2.3986	0.0211	0.0096	0.02145	0.0312	0.0073152
100	2.3117	2.3299	2.3469	0.01319	2.3323	2.3622	2.393	0.019978	0.0117	0.03229	0.0461	0.01014

Device Test: 23.20 LEVEL|LS_RDSON/OUTL/12/12/100/0/5/500kHz//@ROL





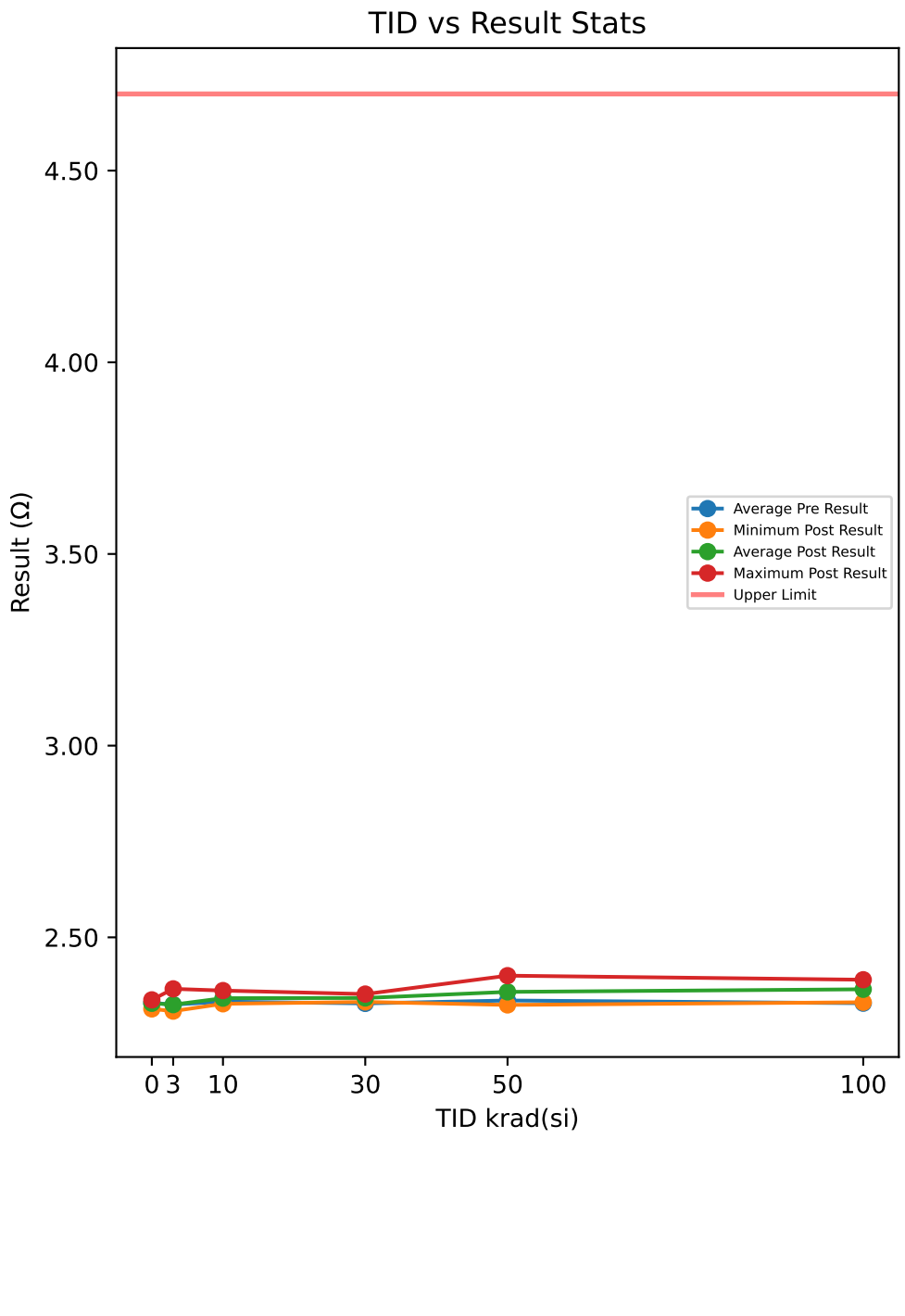
Test Results (Upper Limit = 2.8 (Ω))

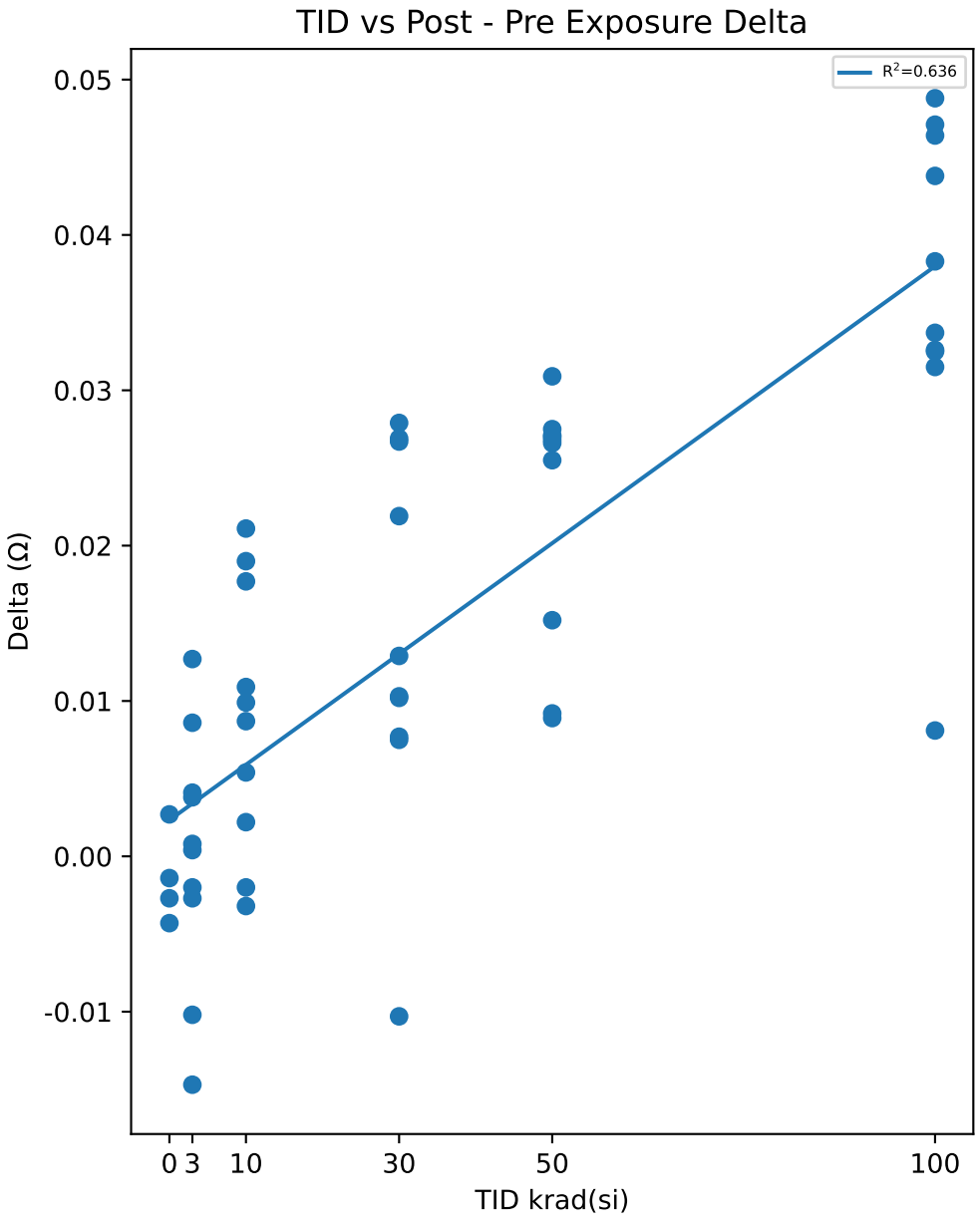
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.5965	1.5943	-0.0022
2	3	HDR BIAS	1.5873	1.581	-0.0063
3	3	HDR BIAS	1.6022	1.6003	-0.0019
4	3	HDR BIAS	1.5973	1.5939	-0.0034
5	3	HDR BIAS	1.5959	1.595	-0.0009
6	3	HDR UNBIAS	1.5888	1.5944	0.0056
7	3	HDR UNBIAS	1.608	1.6039	-0.0041
8	3	HDR UNBIAS	1.5949	1.5895	-0.0054
9	3	HDR UNBIAS	1.6136	1.6129	-0.0007
10	3	HDR UNBIAS	1.5947	1.5969	0.0022
11	10	HDR BIAS	1.6021	1.5764	-0.0257
12	10	HDR BIAS	1.5906	1.5736	-0.017
13	10	HDR BIAS	1.5788	1.5638	-0.015
14	10	HDR BIAS	1.6066	1.589	-0.0176
15	10	HDR BIAS	1.6181	1.5907	-0.0274
16	10	HDR UNBIAS	1.6015	1.5952	-0.0063
17	10	HDR UNBIAS	1.6278	1.6223	-0.0055
18	10	HDR UNBIAS	1.5916	1.5907	-0.0009
19	10	HDR UNBIAS	1.6124	1.5977	-0.0147
20	10	HDR UNBIAS	1.5827	1.5809	-0.0018
31	30	HDR BIAS	1.593	1.5438	-0.0492
32	30	HDR BIAS	1.5801	1.54	-0.0401
33	30	HDR BIAS	1.5791	1.5472	-0.0319
34	30	HDR BIAS	1.6054	1.5747	-0.0307
35	30	HDR BIAS	1.5952	1.5604	-0.0348
36	30	HDR UNBIAS	1.5924	1.579	-0.0134
37	30	HDR UNBIAS	1.6114	1.5931	-0.0183
38	30	HDR UNBIAS	1.5906	1.5861	-0.0045
39	30	HDR UNBIAS	1.5934	1.5738	-0.0196
40	30	HDR UNBIAS	1.6115	1.5968	-0.0147
41	50	HDR BIAS	1.6013	1.5543	-0.047
42	50	HDR BIAS	1.6003	1.5455	-0.0548
43	50	HDR BIAS	1.616	1.564	-0.052
44	50	HDR BIAS	1.5985	1.5498	-0.0487
45	50	HDR BIAS	1.572	1.5332	-0.0388
46	50	HDR UNBIAS	1.5991	1.5801	-0.019
47	50	HDR UNBIAS	1.604	1.5838	-0.0202
48	50	HDR UNBIAS	1.5808	1.5711	-0.0097
49	50	HDR UNBIAS	1.6078	1.5898	-0.018
50	50	HDR UNBIAS	1.5969	1.5834	-0.0135
51	100	HDR BIAS	1.5934	1.5374	-0.056
52	100	HDR BIAS	1.6027	1.5472	-0.0555
53	100	HDR BIAS	1.5879	1.5337	-0.0542
54	100	HDR BIAS	1.594	1.5473	-0.0467
55	100	HDR BIAS	1.5902	1.5303	-0.0599
56	100	HDR UNBIAS	1.6021	1.572	-0.0301
57	100	HDR UNBIAS	1.6005	1.5764	-0.0241
58	100	HDR UNBIAS	1.6001	1.5836	-0.0165
59	100	HDR UNBIAS	1.6002	1.571	-0.0292
60	100	HDR UNBIAS	1.6198	1.5905	-0.0293
91	0	CORRELATION	1.5851	1.5851	0
92	0	CORRELATION	1.5755	1.5843	0.0088
93	0	CORRELATION	1.5804	1.5853	0.0049
94	0	CORRELATION	1.5995	1.5967	-0.0028

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5755	1.5851	1.5995	0.010354	1.5843	1.5878	1.5967	0.0059158	-0.0028	0.002725	0.0088	0.0051506
3	1.5873	1.5979	1.6136	0.008081	1.581	1.5962	1.6129	0.0084655	-0.0063	-0.00171	0.0056	0.0035579
10	1.5788	1.6012	1.6278	0.015625	1.5638	1.588	1.6223	0.016041	-0.0274	-0.01319	-0.0009	0.0093412
30	1.5791	1.5952	1.6115	0.011336	1.54	1.5695	1.5968	0.020614	-0.0492	-0.02572	-0.0045	0.013823
50	1.572	1.5977	1.616	0.012674	1.5332	1.5655	1.5898	0.019171	-0.0548	-0.03217	-0.0097	0.017681
100	1.5879	1.5991	1.6198	0.0089304	1.5303	1.5589	1.5905	0.02216	-0.0599	-0.04015	-0.0165	0.015891

Device Test: 23.21 LEVEL|HS_RDSON/OUTH/14/14/100/0/5/500kHz//@ROH





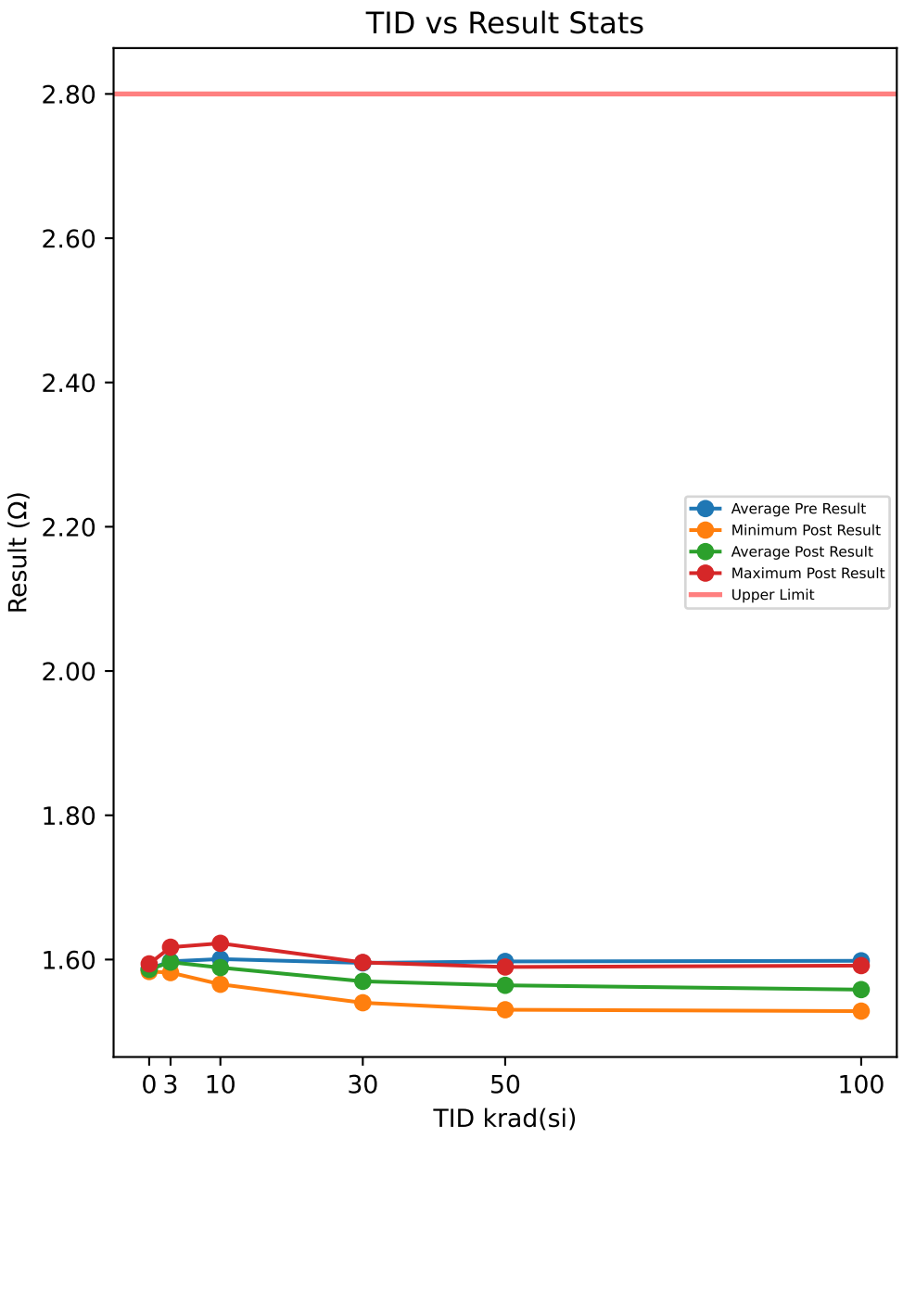
Test Results (Upper Limit = 4.7 (Ω))

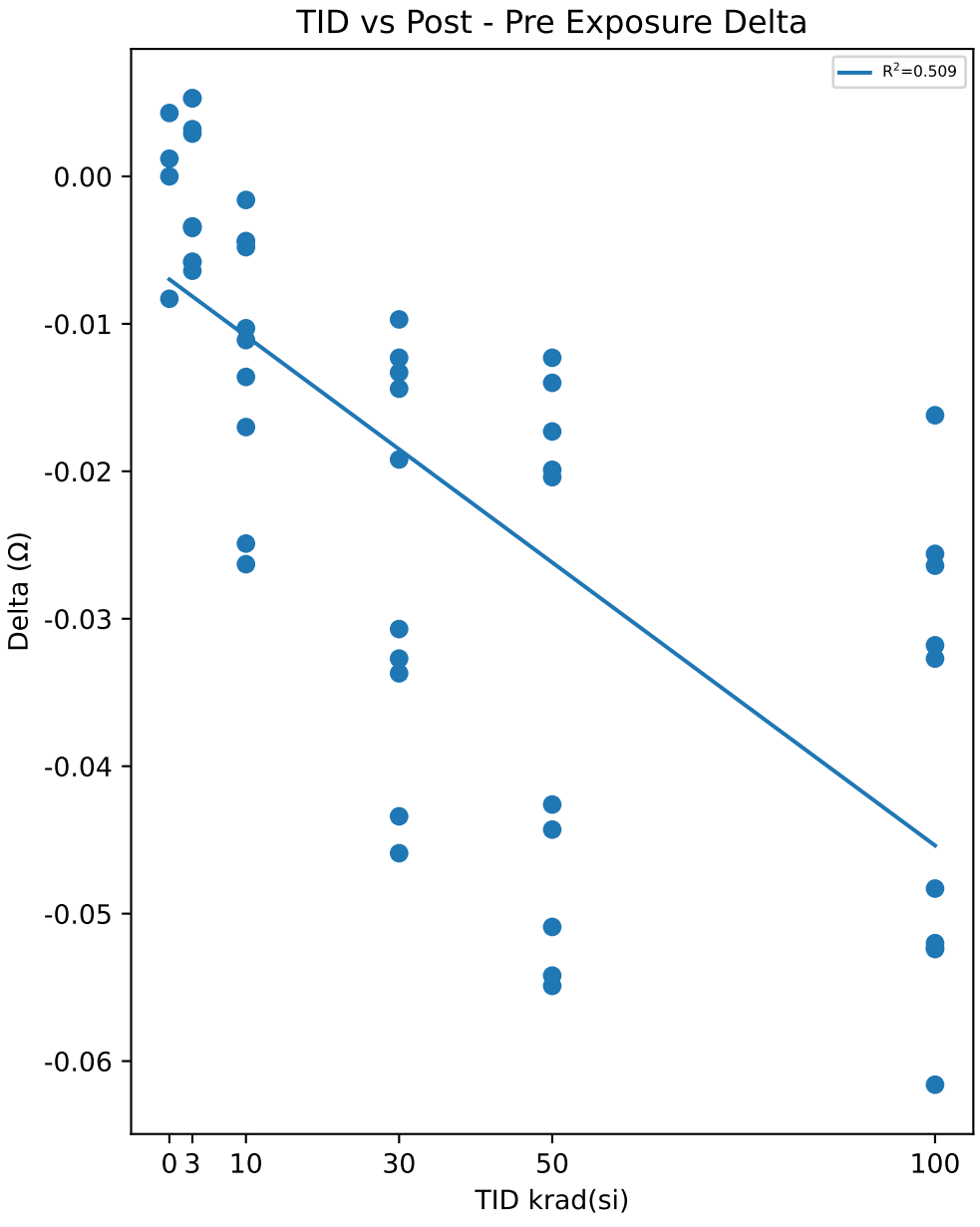
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.3321	2.3174	-0.0147
2	3	HDR BIAS	2.316	2.314	-0.002
3	3	HDR BIAS	2.3529	2.3656	0.0127
4	3	HDR BIAS	2.3146	2.315	0.0004
5	3	HDR BIAS	2.3067	2.3075	0.0008
6	3	HDR UNBIAS	2.3329	2.337	0.0041
7	3	HDR UNBIAS	2.3144	2.3117	-0.0027
8	3	HDR UNBIAS	2.3325	2.3363	0.0038
9	3	HDR UNBIAS	2.3232	2.3318	0.0086
10	3	HDR UNBIAS	2.318	2.3078	-0.0102
11	10	HDR BIAS	2.3103	2.3293	0.019
12	10	HDR BIAS	2.34	2.3611	0.0211
13	10	HDR BIAS	2.3293	2.3273	-0.002
14	10	HDR BIAS	2.3369	2.3468	0.0099
15	10	HDR BIAS	2.3232	2.3409	0.0177
16	10	HDR UNBIAS	2.3411	2.3379	-0.0032
17	10	HDR UNBIAS	2.3499	2.3553	0.0054
18	10	HDR UNBIAS	2.3249	2.3336	0.0087
19	10	HDR UNBIAS	2.3517	2.3539	0.0022
20	10	HDR UNBIAS	2.3157	2.3266	0.0109
31	30	HDR BIAS	2.3315	2.3418	0.0103
32	30	HDR BIAS	2.3233	2.3502	0.0269
33	30	HDR BIAS	2.3311	2.344	0.0129
34	30	HDR BIAS	2.3332	2.3407	0.0075
35	30	HDR BIAS	2.32	2.3479	0.0279
36	30	HDR UNBIAS	2.3301	2.352	0.0219
37	30	HDR UNBIAS	2.3418	2.3315	-0.0103
38	30	HDR UNBIAS	2.3263	2.334	0.0077
39	30	HDR UNBIAS	2.3105	2.3372	0.0267
40	30	HDR UNBIAS	2.3285	2.3387	0.0102
41	50	HDR BIAS	2.3085	2.3237	0.0152
42	50	HDR BIAS	2.3188	2.3458	0.027
43	50	HDR BIAS	2.3729	2.4	0.0271
44	50	HDR BIAS	2.3229	2.3538	0.0309
45	50	HDR BIAS	2.3331	2.3599	0.0268
46	50	HDR UNBIAS	2.3472	2.3564	0.0092
47	50	HDR UNBIAS	2.3273	2.3539	0.0266
48	50	HDR UNBIAS	2.3442	2.3697	0.0255
49	50	HDR UNBIAS	2.3678	2.3767	0.0089
50	50	HDR UNBIAS	2.3097	2.3372	0.0275
51	100	HDR BIAS	2.3406	2.3894	0.0488
52	100	HDR BIAS	2.3277	2.3592	0.0315
53	100	HDR BIAS	2.3429	2.3812	0.0383
54	100	HDR BIAS	2.329	2.3761	0.0471
55	100	HDR BIAS	2.3262	2.37	0.0438
56	100	HDR UNBIAS	2.3475	2.3812	0.0337
57	100	HDR UNBIAS	2.3064	2.339	0.0326
58	100	HDR UNBIAS	2.3225	2.3306	0.0081
59	100	HDR UNBIAS	2.3281	2.3745	0.0464
60	100	HDR UNBIAS	2.3108	2.3433	0.0325
91	0	CORRELATION	2.33	2.3286	-0.0014
92	0	CORRELATION	2.3176	2.3133	-0.0043
93	0	CORRELATION	2.3357	2.333	-0.0027
94	0	CORRELATION	2.3342	2.3369	0.0027

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3176	2.3294	2.3357	0.0082123	2.3133	2.3279	2.3369	0.010338	-0.0043	-0.001425	0.0027	0.0029949
3	2.3067	2.3243	2.3529	0.013465	2.3075	2.3244	2.3656	0.01832	-0.0147	8e-05	0.0127	0.0081558
10	2.3103	2.3323	2.3517	0.013945	2.3266	2.3413	2.3611	0.012491	-0.0032	0.00897	0.0211	0.0085352
30	2.3105	2.3276	2.3418	0.0084186	2.3315	2.3418	2.352	0.0067951	-0.0103	0.01417	0.0279	0.011948
50	2.3085	2.3352	2.3729	0.022507	2.3237	2.3577	2.4	0.021209	0.0089	0.02247	0.0309	0.0081404
100	2.3064	2.3282	2.3475	0.013156	2.3306	2.3645	2.3894	0.020329	0.0081	0.03628	0.0488	0.011964

Device Test: 23.22 LEVEL|LS_RDSON/OUTL/14/14/100/0/5/500kHz//@ROL





Test Results (Upper Limit = 2.8 (Ω))

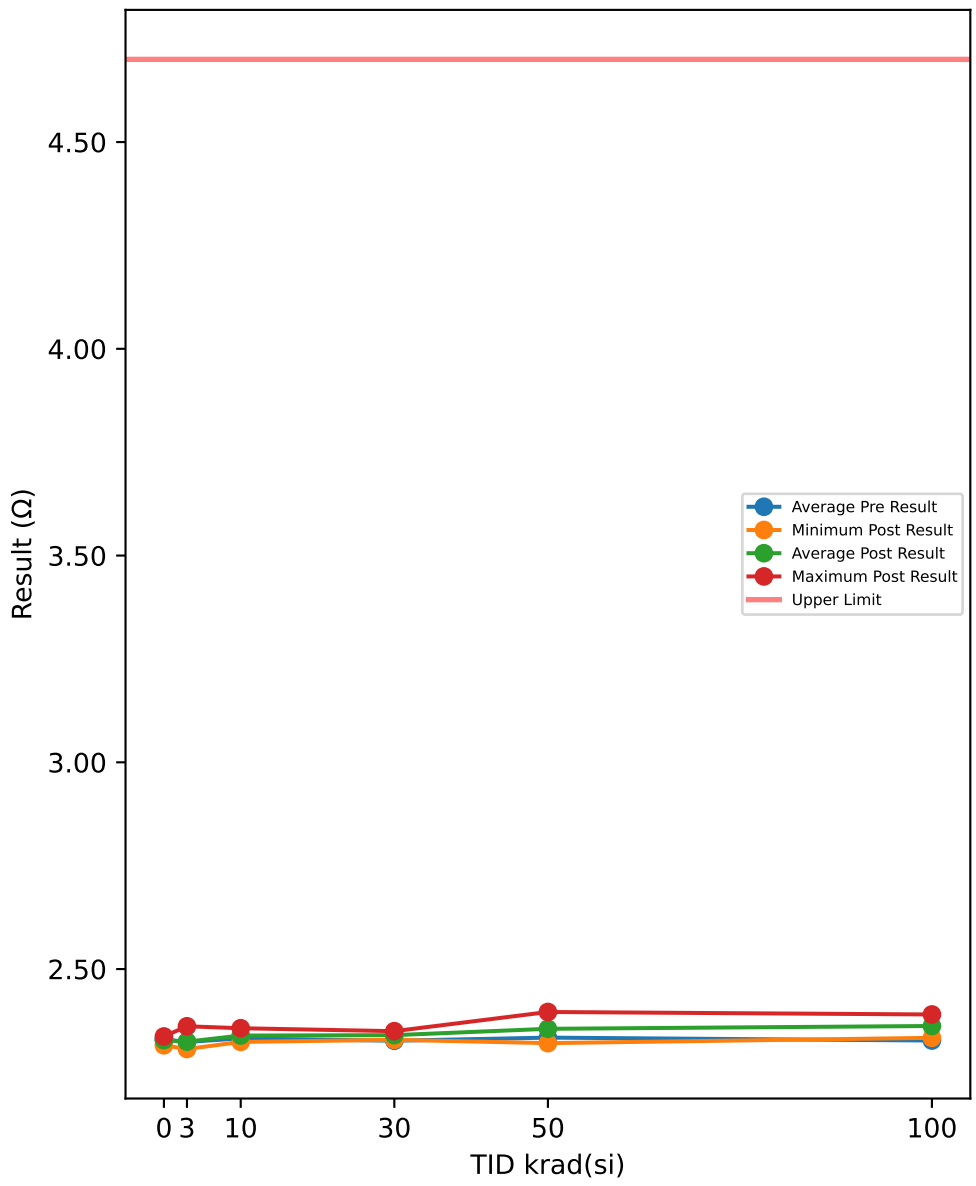
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.5927	1.5959	0.0032
2	3	HDR BIAS	1.5854	1.5819	-0.0035
3	3	HDR BIAS	1.6031	1.5967	-0.0064
4	3	HDR BIAS	1.5981	1.5923	-0.0058
5	3	HDR BIAS	1.5976	1.5942	-0.0034
6	3	HDR UNBIAS	1.5888	1.5941	0.0053
7	3	HDR UNBIAS	1.6079	1.6021	-0.0058
8	3	HDR UNBIAS	1.5932	1.5898	-0.0034
9	3	HDR UNBIAS	1.6118	1.6171	0.0053
10	3	HDR UNBIAS	1.5966	1.5995	0.0029
11	10	HDR BIAS	1.6011	1.5748	-0.0263
12	10	HDR BIAS	1.5914	1.5744	-0.017
13	10	HDR BIAS	1.5768	1.5657	-0.0111
14	10	HDR BIAS	1.6058	1.5922	-0.0136
15	10	HDR BIAS	1.6181	1.5932	-0.0249
16	10	HDR UNBIAS	1.6044	1.5941	-0.0103
17	10	HDR UNBIAS	1.6269	1.6225	-0.0044
18	10	HDR UNBIAS	1.5907	1.5891	-0.0016
19	10	HDR UNBIAS	1.6071	1.6023	-0.0048
20	10	HDR UNBIAS	1.5844	1.58	-0.0044
31	30	HDR BIAS	1.5903	1.5444	-0.0459
32	30	HDR BIAS	1.5835	1.5401	-0.0434
33	30	HDR BIAS	1.5792	1.5465	-0.0327
34	30	HDR BIAS	1.6053	1.5746	-0.0307
35	30	HDR BIAS	1.5959	1.5622	-0.0337
36	30	HDR UNBIAS	1.5915	1.5792	-0.0123
37	30	HDR UNBIAS	1.6151	1.5959	-0.0192
38	30	HDR UNBIAS	1.5934	1.5837	-0.0097
39	30	HDR UNBIAS	1.5888	1.5755	-0.0133
40	30	HDR UNBIAS	1.6104	1.596	-0.0144
41	50	HDR BIAS	1.6058	1.5516	-0.0542
42	50	HDR BIAS	1.5977	1.5428	-0.0549
43	50	HDR BIAS	1.616	1.5651	-0.0509
44	50	HDR BIAS	1.5952	1.5509	-0.0443
45	50	HDR BIAS	1.573	1.5304	-0.0426
46	50	HDR UNBIAS	1.5981	1.5782	-0.0199
47	50	HDR UNBIAS	1.604	1.5836	-0.0204
48	50	HDR UNBIAS	1.5808	1.5668	-0.014
49	50	HDR UNBIAS	1.607	1.5897	-0.0173
50	50	HDR UNBIAS	1.5959	1.5836	-0.0123
51	100	HDR BIAS	1.5907	1.5384	-0.0523
52	100	HDR BIAS	1.5989	1.5506	-0.0483
53	100	HDR BIAS	1.5871	1.5347	-0.0524
54	100	HDR BIAS	1.5949	1.5429	-0.052
55	100	HDR BIAS	1.5901	1.5285	-0.0616
56	100	HDR UNBIAS	1.6039	1.5721	-0.0318
57	100	HDR UNBIAS	1.5995	1.5739	-0.0256
58	100	HDR UNBIAS	1.5991	1.5829	-0.0162
59	100	HDR UNBIAS	1.6003	1.5676	-0.0327
60	100	HDR UNBIAS	1.618	1.5916	-0.0264
91	0	CORRELATION	1.5844	1.5844	0
92	0	CORRELATION	1.5792	1.5835	0.0043
93	0	CORRELATION	1.5822	1.5834	0.0012
94	0	CORRELATION	1.6023	1.594	-0.0083

Test Statistics (Ω)

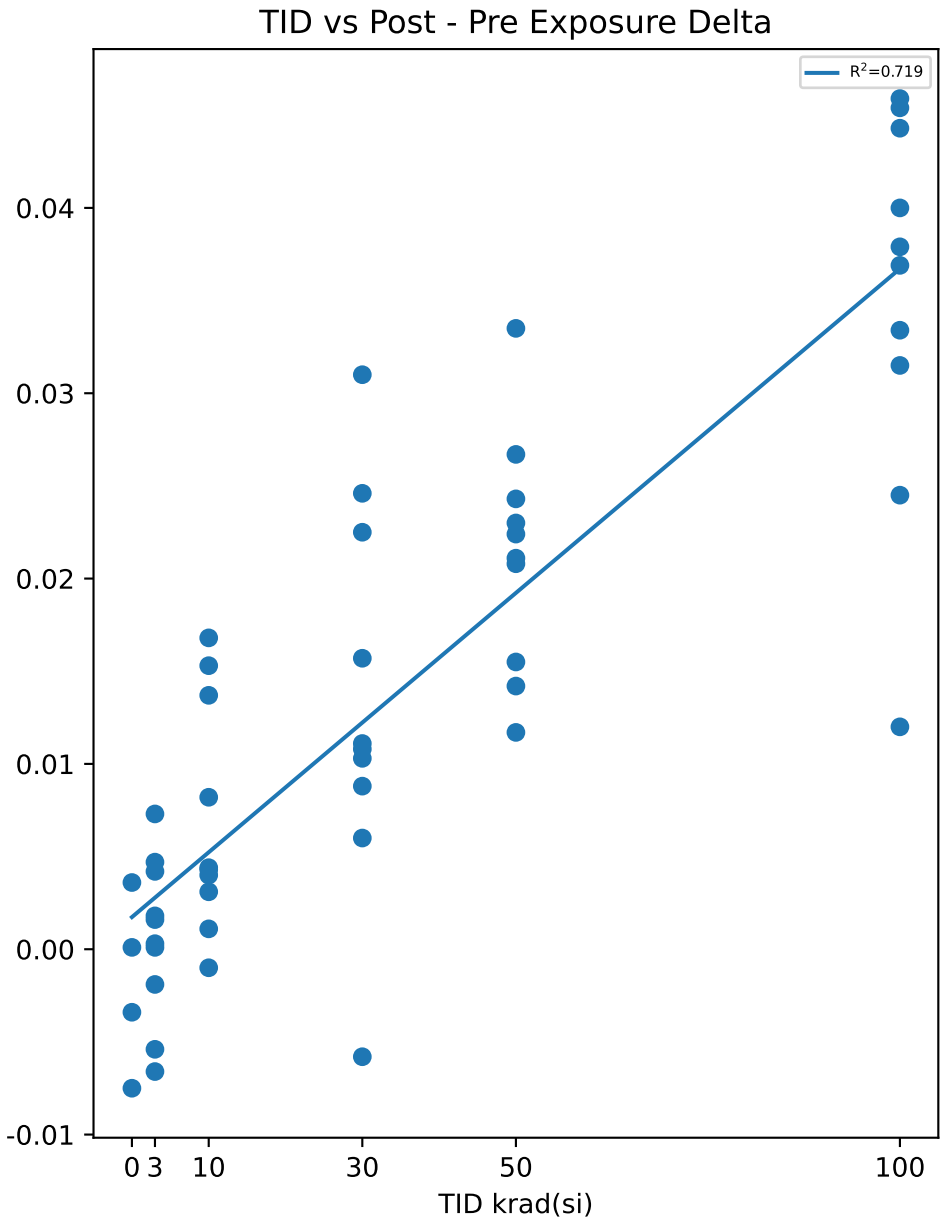
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5792	1.587	1.6023	0.010404	1.5834	1.5863	1.594	0.0051364	-0.0083	-0.0007	0.0043	0.0053808
3	1.5854	1.5975	1.6118	0.0082247	1.5819	1.5964	1.6171	0.0091388	-0.0064	-0.00116	0.0053	0.0047724
10	1.5768	1.6007	1.6269	0.015251	1.5657	1.5888	1.6225	0.016301	-0.0263	-0.01184	-0.0016	0.0086758
30	1.5792	1.5953	1.6151	0.011567	1.5401	1.5698	1.596	0.020636	-0.0459	-0.02553	-0.0097	0.013409
50	1.573	1.5974	1.616	0.012609	1.5304	1.5643	1.5897	0.01984	-0.0549	-0.03308	-0.0123	0.01775
100	1.5871	1.5982	1.618	0.0087424	1.5285	1.5583	1.5916	0.02204	-0.0616	-0.03993	-0.0162	0.015143

Device Test: 23.23 LEVEL|HS_RDSON/OUTH/12/12/500/0/5/500kHz//@ROH

TID vs Result Stats



TID vs Post - Pre Exposure Delta



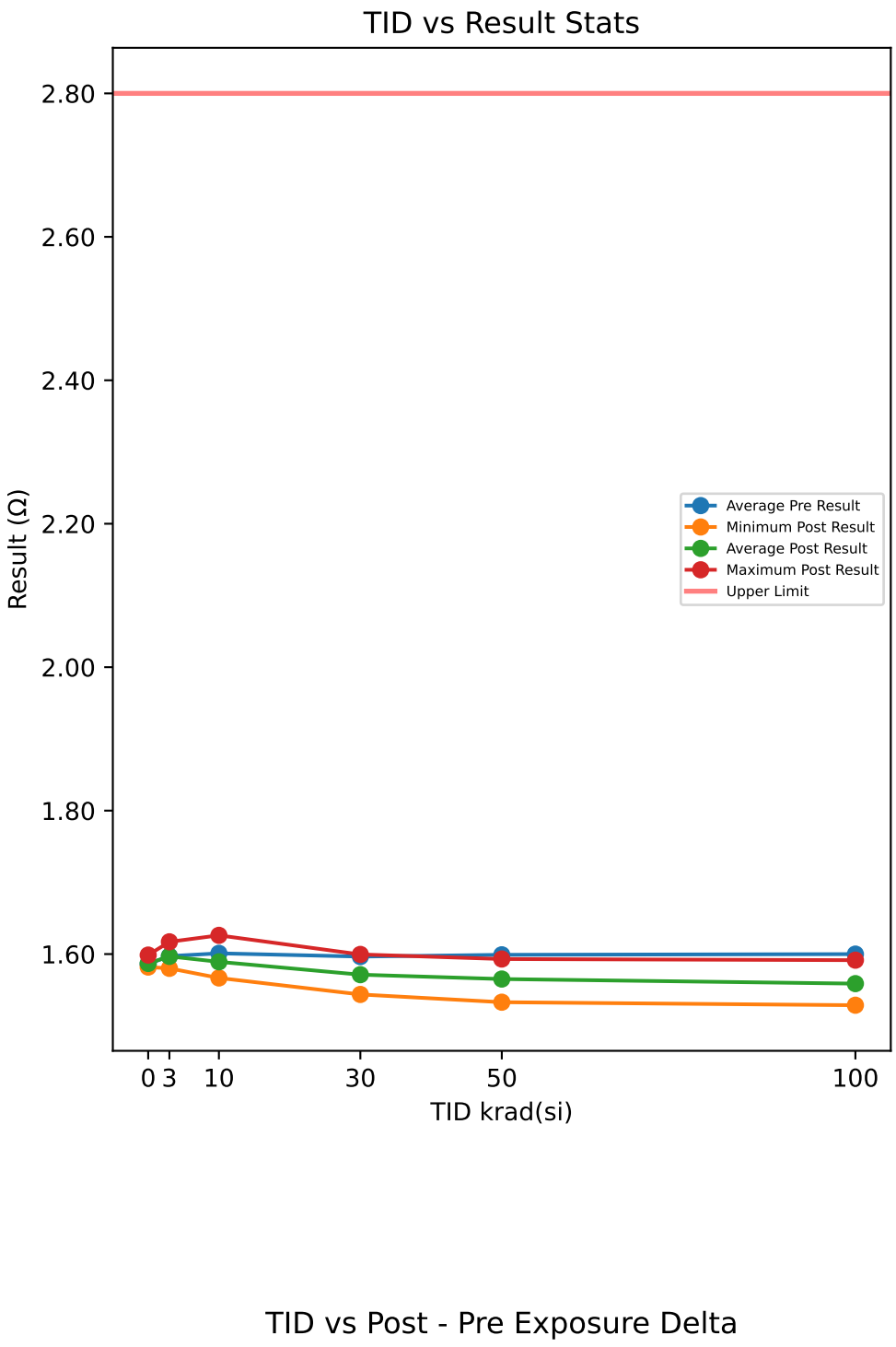
Test Results (Upper Limit = 4.7 (Ω))

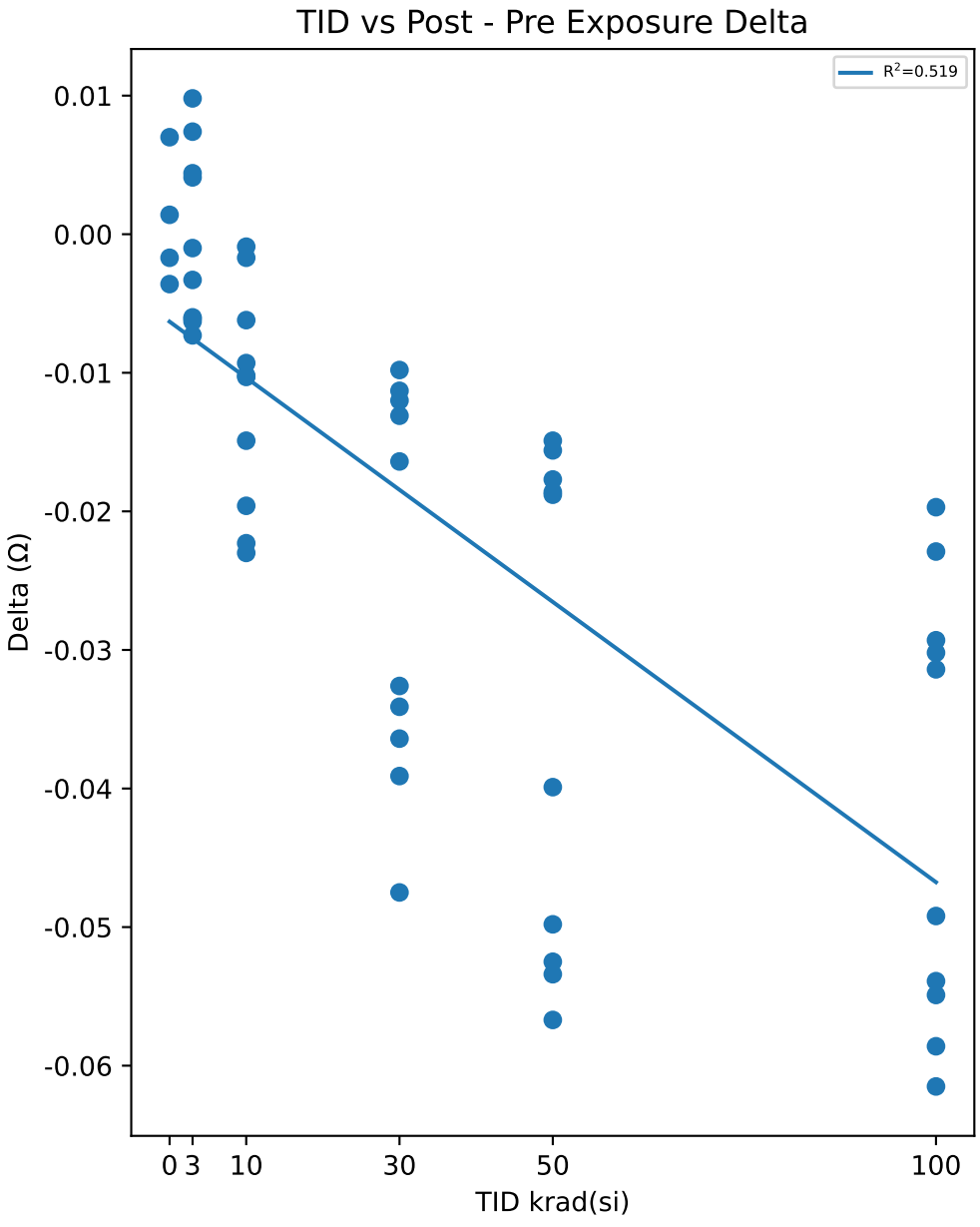
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.3232	2.3178	-0.0054
2	3	HDR BIAS	2.3161	2.3142	-0.0019
3	3	HDR BIAS	2.3543	2.3616	0.0073
4	3	HDR BIAS	2.3159	2.3162	0.0003
5	3	HDR BIAS	2.3065	2.3066	0.0001
6	3	HDR UNBIAS	2.334	2.3387	0.0047
7	3	HDR UNBIAS	2.3131	2.3147	0.0016
8	3	HDR UNBIAS	2.3295	2.3313	0.0018
9	3	HDR UNBIAS	2.328	2.3322	0.0042
10	3	HDR UNBIAS	2.3175	2.3109	-0.0066
11	10	HDR BIAS	2.3085	2.3238	0.0153
12	10	HDR BIAS	2.3432	2.3569	0.0137
13	10	HDR BIAS	2.3274	2.3264	-0.001
14	10	HDR BIAS	2.3433	2.3476	0.0043
15	10	HDR BIAS	2.3231	2.3399	0.0168
16	10	HDR UNBIAS	2.3318	2.3329	0.0011
17	10	HDR UNBIAS	2.3499	2.3539	0.004
18	10	HDR UNBIAS	2.3259	2.329	0.0031
19	10	HDR UNBIAS	2.3503	2.3547	0.0044
20	10	HDR UNBIAS	2.3189	2.3271	0.0082
31	30	HDR BIAS	2.3273	2.3376	0.0103
32	30	HDR BIAS	2.3241	2.3487	0.0246
33	30	HDR BIAS	2.3306	2.3417	0.0111
34	30	HDR BIAS	2.3299	2.3387	0.0088
35	30	HDR BIAS	2.3188	2.3498	0.031
36	30	HDR UNBIAS	2.3307	2.3464	0.0157
37	30	HDR UNBIAS	2.3347	2.3289	-0.0058
38	30	HDR UNBIAS	2.3263	2.3371	0.0108
39	30	HDR UNBIAS	2.3144	2.3369	0.0225
40	30	HDR UNBIAS	2.3298	2.3358	0.006
41	50	HDR BIAS	2.3067	2.3209	0.0142
42	50	HDR BIAS	2.3157	2.3387	0.023
43	50	HDR BIAS	2.3719	2.3962	0.0243
44	50	HDR BIAS	2.3203	2.3538	0.0335
45	50	HDR BIAS	2.3336	2.3603	0.0267
46	50	HDR UNBIAS	2.3431	2.3548	0.0117
47	50	HDR UNBIAS	2.326	2.3468	0.0208
48	50	HDR UNBIAS	2.3473	2.3684	0.0211
49	50	HDR UNBIAS	2.364	2.3795	0.0155
50	50	HDR UNBIAS	2.3133	2.3357	0.0224
51	100	HDR BIAS	2.3448	2.3902	0.0454
52	100	HDR BIAS	2.3205	2.3539	0.0334
53	100	HDR BIAS	2.3457	2.3826	0.0369
54	100	HDR BIAS	2.3322	2.3722	0.04
55	100	HDR BIAS	2.3217	2.366	0.0443
56	100	HDR UNBIAS	2.343	2.3809	0.0379
57	100	HDR UNBIAS	2.3138	2.3383	0.0245
58	100	HDR UNBIAS	2.3217	2.3337	0.012
59	100	HDR UNBIAS	2.3205	2.3664	0.0459
60	100	HDR UNBIAS	2.3076	2.3391	0.0315
91	0	CORRELATION	2.3313	2.3279	-0.0034
92	0	CORRELATION	2.3231	2.3156	-0.0075
93	0	CORRELATION	2.3319	2.332	0.0001
94	0	CORRELATION	2.3334	2.337	0.0036

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3231	2.3299	2.3334	0.0046349	2.3156	2.3281	2.337	0.0091416	-0.0075	-0.0018	0.0036	0.0047546
3	2.3065	2.3238	2.3543	0.013581	2.3066	2.3244	2.3616	0.016683	-0.0066	0.00061	0.0073	0.0043656
10	2.3085	2.3322	2.3503	0.014021	2.3238	2.3392	2.3569	0.013046	-0.001	0.00699	0.0168	0.0062212
30	2.3144	2.3267	2.3347	0.0061103	2.3289	2.3402	2.3498	0.0065119	-0.0058	0.0135	0.031	0.010485
50	2.3067	2.3342	2.3719	0.022001	2.3209	2.3555	2.3962	0.022041	0.0117	0.02132	0.0335	0.0063909
100	2.3076	2.3272	2.3457	0.013502	2.3337	2.3623	2.3902	0.020187	0.012	0.03518	0.0459	0.010563

Device Test: 23.24 LEVEL|LS_RDSON/OUTL/12/12/500/0/5/500kHz//@ROL





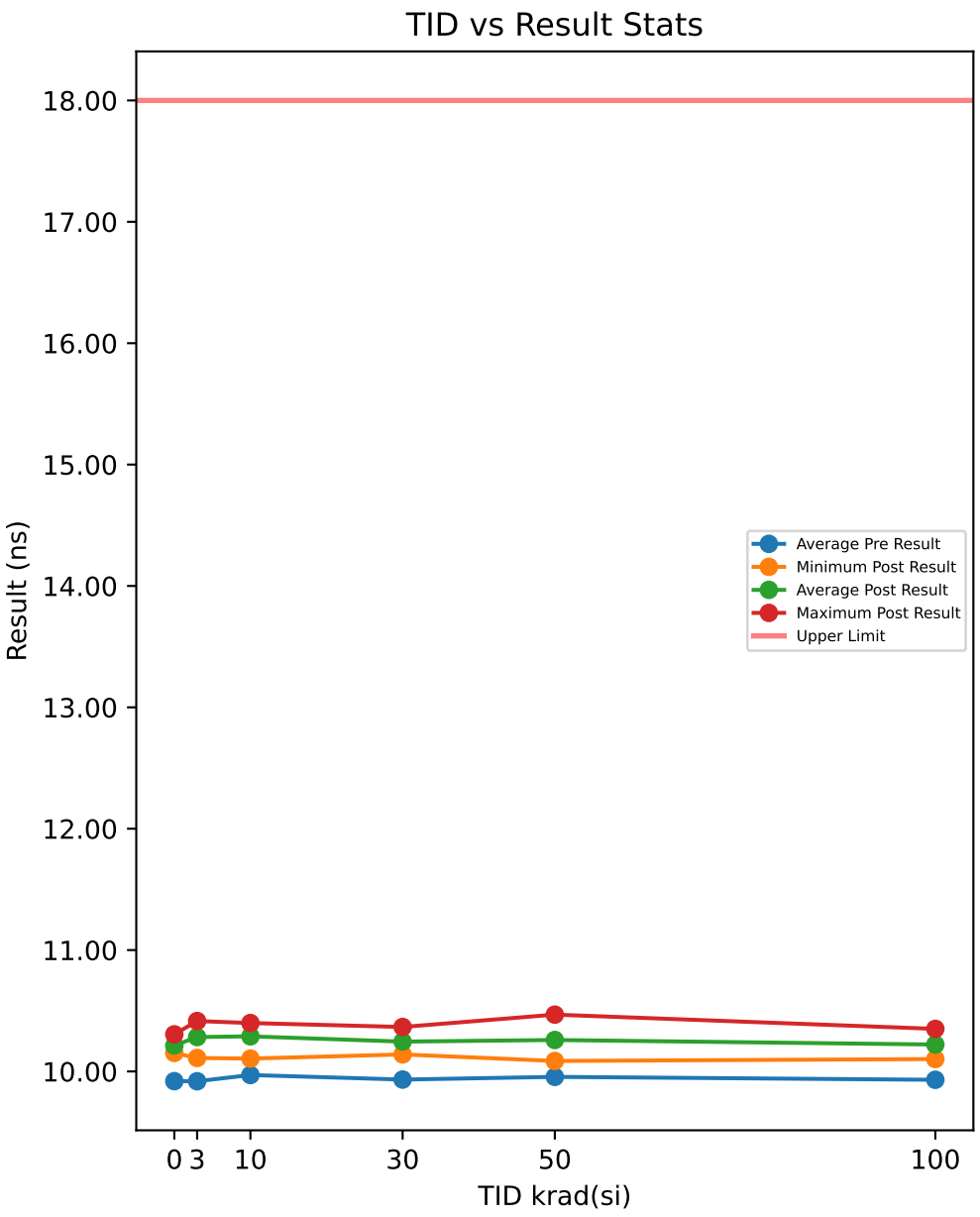
Test Results (Upper Limit = 2.8 (Ω))

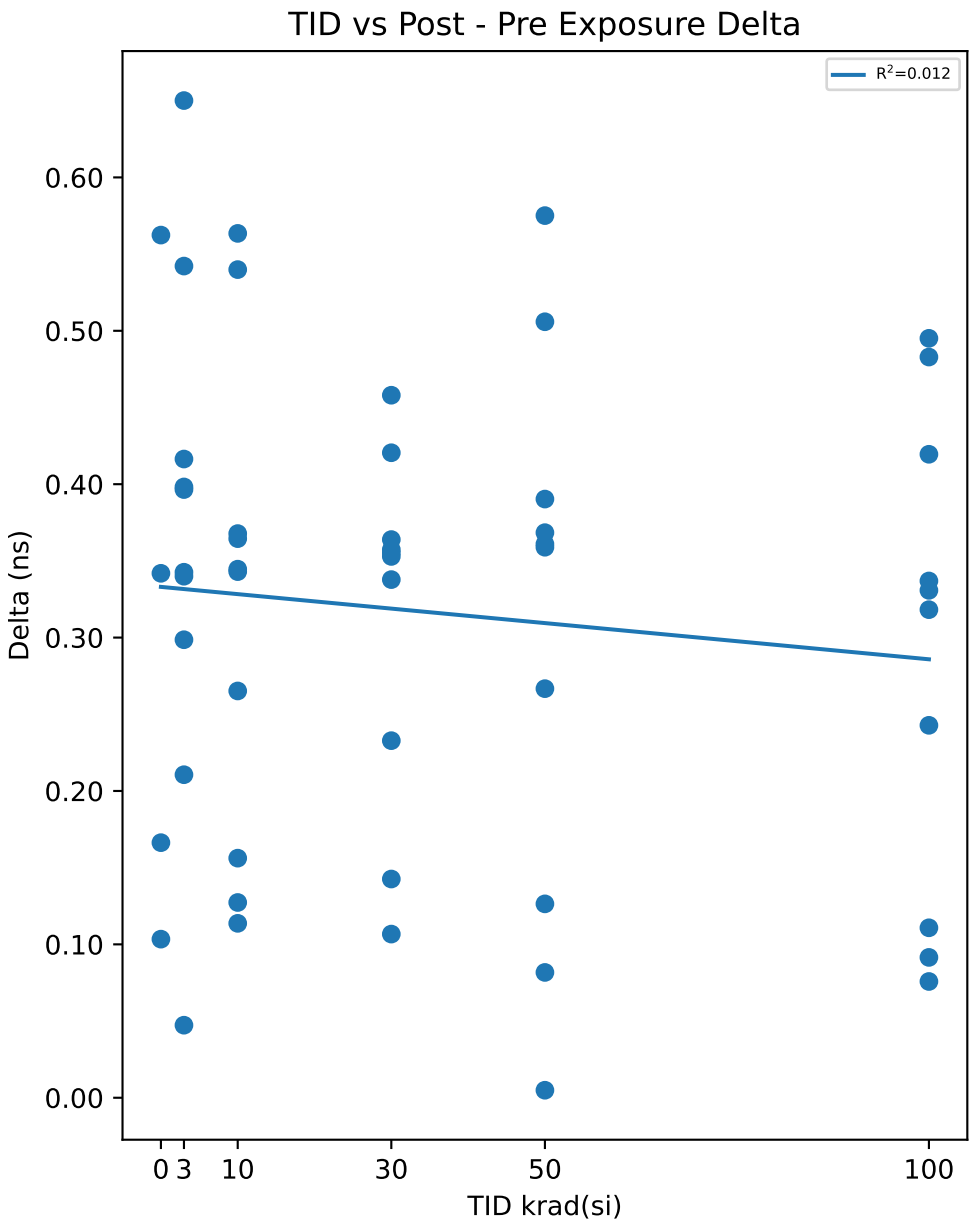
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.5945	1.5986	0.0041
2	3	HDR BIAS	1.5862	1.5801	-0.0061
3	3	HDR BIAS	1.6048	1.5975	-0.0073
4	3	HDR BIAS	1.5964	1.5931	-0.0033
5	3	HDR BIAS	1.5977	1.5914	-0.0063
6	3	HDR UNBIAS	1.5871	1.5969	0.0098
7	3	HDR UNBIAS	1.6098	1.6038	-0.006
8	3	HDR UNBIAS	1.5915	1.5905	-0.001
9	3	HDR UNBIAS	1.6127	1.6171	0.0044
10	3	HDR UNBIAS	1.5912	1.5986	0.0074
11	10	HDR BIAS	1.6013	1.579	-0.0223
12	10	HDR BIAS	1.5932	1.5736	-0.0196
13	10	HDR BIAS	1.5769	1.5667	-0.0102
14	10	HDR BIAS	1.6082	1.5933	-0.0149
15	10	HDR BIAS	1.6154	1.5924	-0.023
16	10	HDR UNBIAS	1.6034	1.5941	-0.0093
17	10	HDR UNBIAS	1.627	1.6261	-0.0009
18	10	HDR UNBIAS	1.5923	1.5906	-0.0017
19	10	HDR UNBIAS	1.609	1.5987	-0.0103
20	10	HDR UNBIAS	1.5836	1.5774	-0.0062
31	30	HDR BIAS	1.5939	1.5464	-0.0475
32	30	HDR BIAS	1.5828	1.5437	-0.0391
33	30	HDR BIAS	1.5799	1.5473	-0.0326
34	30	HDR BIAS	1.608	1.5739	-0.0341
35	30	HDR BIAS	1.5977	1.5613	-0.0364
36	30	HDR UNBIAS	1.5906	1.5793	-0.0113
37	30	HDR UNBIAS	1.6133	1.5969	-0.0164
38	30	HDR UNBIAS	1.5952	1.5854	-0.0098
39	30	HDR UNBIAS	1.5922	1.5791	-0.0131
40	30	HDR UNBIAS	1.6115	1.5995	-0.012
41	50	HDR BIAS	1.6049	1.5524	-0.0525
42	50	HDR BIAS	1.6004	1.5437	-0.0567
43	50	HDR BIAS	1.6167	1.5633	-0.0534
44	50	HDR BIAS	1.6005	1.5507	-0.0498
45	50	HDR BIAS	1.5728	1.5329	-0.0399
46	50	HDR UNBIAS	1.5998	1.581	-0.0188
47	50	HDR UNBIAS	1.603	1.5844	-0.0186
48	50	HDR UNBIAS	1.5843	1.5694	-0.0149
49	50	HDR UNBIAS	1.6087	1.5931	-0.0156
50	50	HDR UNBIAS	1.5987	1.581	-0.0177
51	100	HDR BIAS	1.5969	1.5383	-0.0586
52	100	HDR BIAS	1.5992	1.55	-0.0492
53	100	HDR BIAS	1.5871	1.5322	-0.0549
54	100	HDR BIAS	1.5967	1.5428	-0.0539
55	100	HDR BIAS	1.5902	1.5287	-0.0615
56	100	HDR UNBIAS	1.604	1.5747	-0.0293
57	100	HDR UNBIAS	1.6003	1.5774	-0.0229
58	100	HDR UNBIAS	1.6025	1.5828	-0.0197
59	100	HDR UNBIAS	1.6009	1.5695	-0.0314
60	100	HDR UNBIAS	1.6217	1.5915	-0.0302
91	0	CORRELATION	1.5862	1.5845	-0.0017
92	0	CORRELATION	1.5757	1.5827	0.007
93	0	CORRELATION	1.5805	1.5819	0.0014
94	0	CORRELATION	1.6022	1.5986	-0.0036

Test Statistics (Ω)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5757	1.5861	1.6022	0.011529	1.5819	1.5869	1.5986	0.0078589	-0.0036	0.000775	0.007	0.0046335
3	1.5862	1.5972	1.6127	0.0091679	1.5801	1.5968	1.6171	0.0096003	-0.0073	-0.00043	0.0098	0.0063526
10	1.5769	1.601	1.627	0.015001	1.5667	1.5892	1.6261	0.016659	-0.023	-0.01184	-0.0009	0.0079538
30	1.5799	1.5965	1.6133	0.011382	1.5437	1.5713	1.5995	0.020653	-0.0475	-0.02523	-0.0098	0.014057
50	1.5728	1.599	1.6167	0.012318	1.5329	1.5652	1.5931	0.019853	-0.0567	-0.03379	-0.0149	0.01812
100	1.5871	1.5999	1.6217	0.0092952	1.5287	1.5588	1.5915	0.022915	-0.0615	-0.04116	-0.0197	0.015929

Device Test: 24.10 TIMING|OUT_FALL/OUTH/12/12/0/1000/5/500kHz//@OUT_FALL_12V





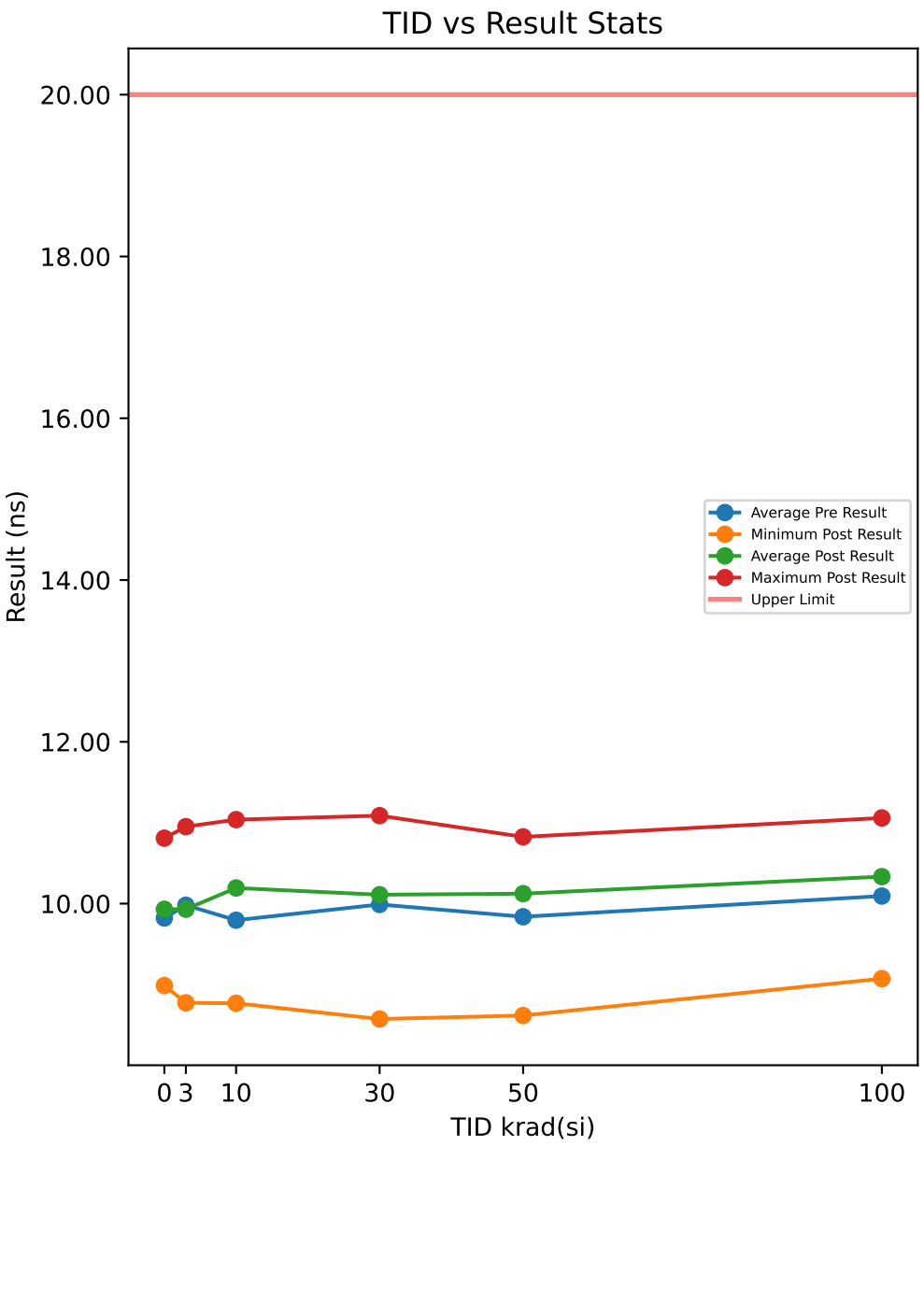
Test Results (Upper Limit = 18.0 (ns))

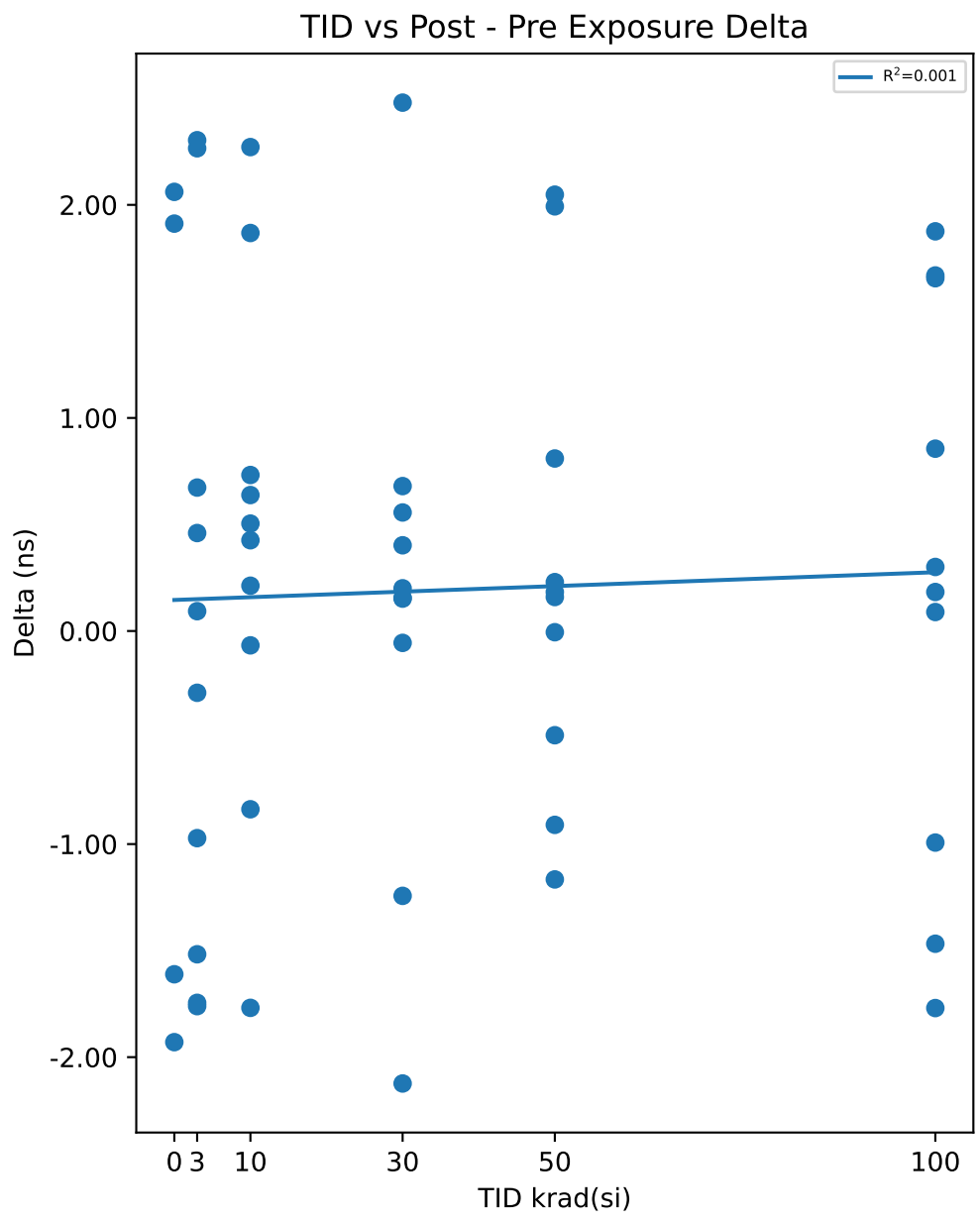
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	9.853	10.249	0.3965
2	3	HDR BIAS	10.073	10.415	0.3426
3	3	HDR BIAS	9.8832	10.281	0.3982
4	3	HDR BIAS	9.902	10.242	0.34
5	3	HDR BIAS	10.064	10.111	0.0473
6	3	HDR UNBIAS	9.7581	10.408	0.6501
7	3	HDR UNBIAS	9.9435	10.36	0.4164
8	3	HDR UNBIAS	10.01	10.221	0.2106
9	3	HDR UNBIAS	9.8675	10.166	0.2986
10	3	HDR UNBIAS	9.8372	10.379	0.5422
11	10	HDR BIAS	10.08	10.194	0.1137
12	10	HDR BIAS	9.8868	10.23	0.343
13	10	HDR BIAS	9.7881	10.352	0.5635
14	10	HDR BIAS	10.134	10.399	0.2652
15	10	HDR BIAS	9.9877	10.332	0.3446
16	10	HDR UNBIAS	9.9265	10.294	0.3678
17	10	HDR UNBIAS	10.207	10.363	0.1562
18	10	HDR UNBIAS	9.816	10.356	0.5399
19	10	HDR UNBIAS	9.9024	10.267	0.3645
20	10	HDR UNBIAS	9.9786	10.106	0.1273
31	30	HDR BIAS	9.8097	10.174	0.3639
32	30	HDR BIAS	10.005	10.148	0.1426
33	30	HDR BIAS	9.8632	10.201	0.3378
34	30	HDR BIAS	9.9084	10.366	0.458
35	30	HDR BIAS	10.114	10.22	0.1067
36	30	HDR UNBIAS	9.7874	10.14	0.3529
37	30	HDR UNBIAS	9.9896	10.347	0.3574
38	30	HDR UNBIAS	10.058	10.291	0.2328
39	30	HDR UNBIAS	9.7892	10.21	0.4205
40	30	HDR UNBIAS	10.007	10.362	0.3552
41	50	HDR BIAS	10.135	10.14	0.0049
42	50	HDR BIAS	9.8931	10.468	0.5751
43	50	HDR BIAS	9.9776	10.339	0.361
44	50	HDR BIAS	10.088	10.17	0.0817
45	50	HDR BIAS	9.718	10.086	0.3684
46	50	HDR UNBIAS	9.92	10.426	0.5059
47	50	HDR UNBIAS	10.129	10.255	0.1264
48	50	HDR UNBIAS	9.6995	10.09	0.3903
49	50	HDR UNBIAS	9.8954	10.254	0.3589
50	50	HDR UNBIAS	10.096	10.363	0.2667
51	100	HDR BIAS	9.8145	10.234	0.4195
52	100	HDR BIAS	9.8894	10.226	0.3369
53	100	HDR BIAS	10.026	10.102	0.0758
54	100	HDR BIAS	9.7936	10.277	0.4829
55	100	HDR BIAS	9.9167	10.235	0.3182
56	100	HDR UNBIAS	10.094	10.205	0.1108
57	100	HDR UNBIAS	9.8502	10.181	0.3308
58	100	HDR UNBIAS	9.8557	10.351	0.4951
59	100	HDR UNBIAS	10.08	10.171	0.0915
60	100	HDR UNBIAS	9.9925	10.235	0.2428
91	0	CORRELATION	10.096	10.2	0.1034
92	0	CORRELATION	9.7433	10.306	0.5624
93	0	CORRELATION	9.8106	10.152	0.3419
94	0	CORRELATION	10.03	10.196	0.1663

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.7433	9.92	10.096	0.16958	10.152	10.213	10.306	0.065119	0.1034	0.2935	0.5624	0.20572
3	9.7581	9.9192	10.073	0.1026	10.111	10.283	10.415	0.1045	0.0473	0.36425	0.6501	0.16591
10	9.7881	9.9707	10.207	0.13562	10.106	10.289	10.399	0.090953	0.1137	0.31857	0.5635	0.15725
30	9.7874	9.9331	10.114	0.11766	10.14	10.246	10.366	0.088308	0.1067	0.31278	0.458	0.11506
50	9.6995	9.9553	10.135	0.16026	10.086	10.259	10.468	0.13713	0.0049	0.30393	0.5751	0.18377
100	9.7936	9.9313	10.094	0.10964	10.102	10.222	10.351	0.065809	0.0758	0.29043	0.4951	0.15646

Device Test: 24.11 TIMING|OUT_RISE/OUTH/14/14/0/1000/5/500kHz//@OUT_RISE_14V





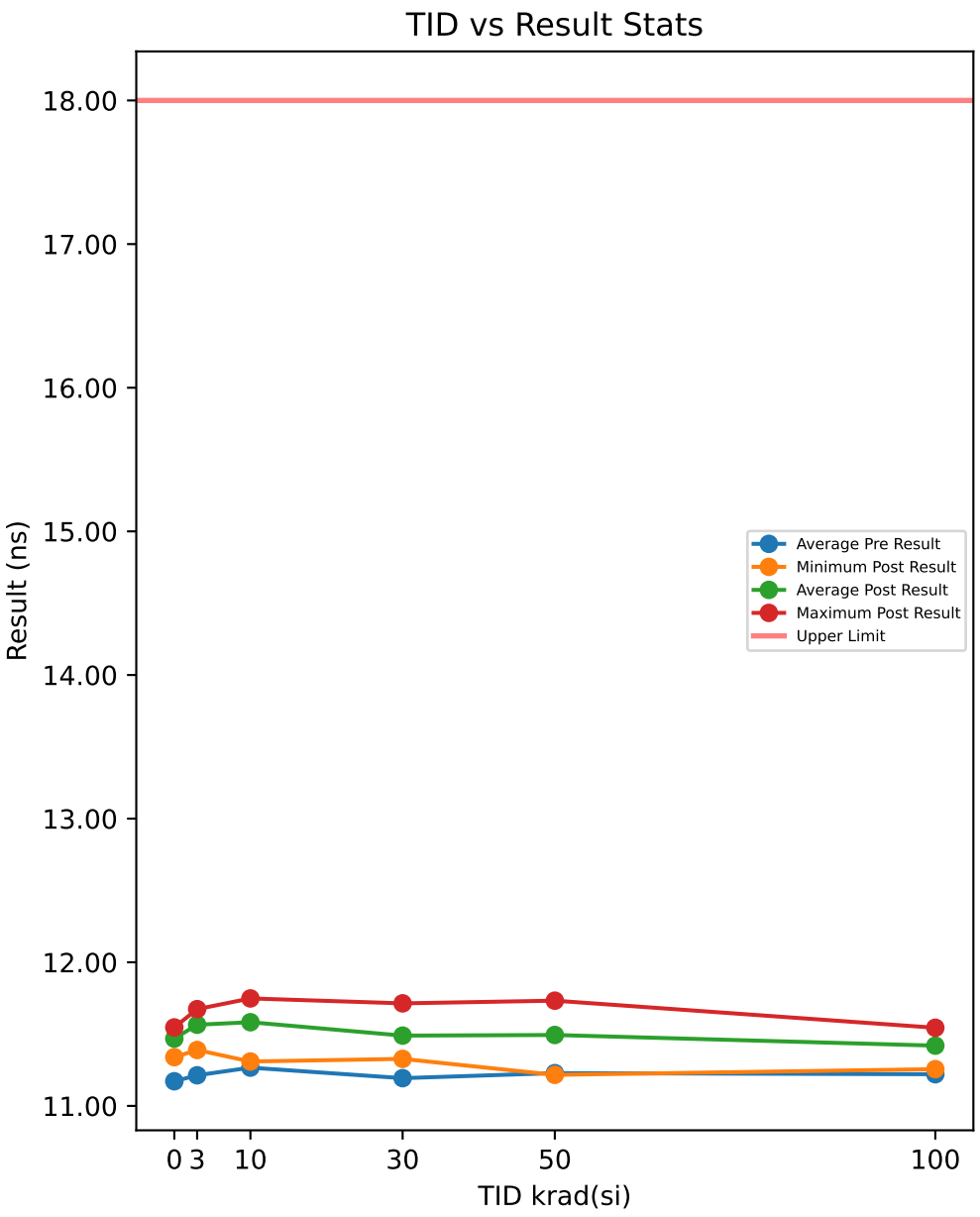
Test Results (Upper Limit = 20.0 (ns))

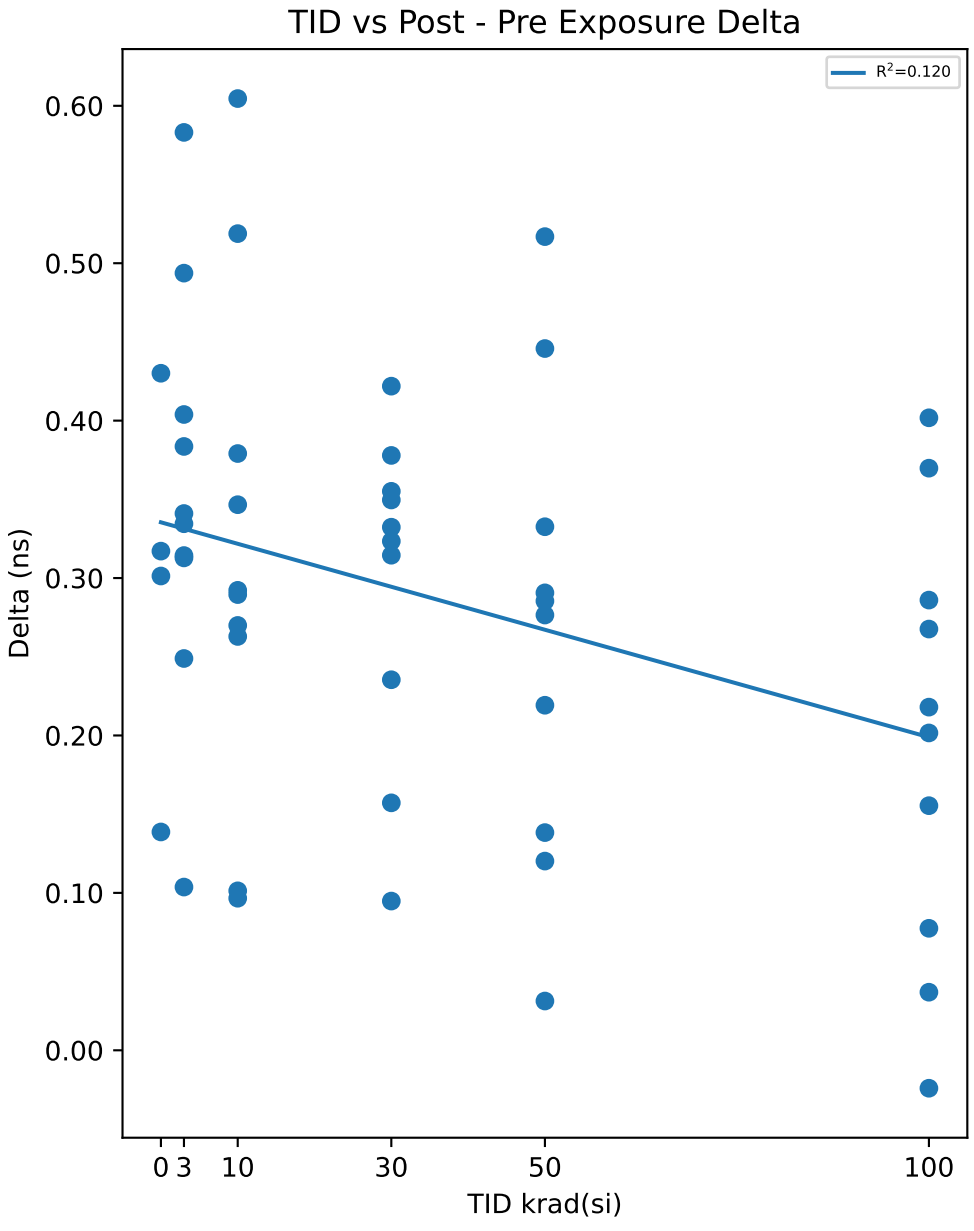
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	10.449	10.909	0.4598
2	3	HDR BIAS	8.5944	9.2676	0.6732
3	3	HDR BIAS	10.534	8.7736	-1.7606
4	3	HDR BIAS	10.652	10.362	-0.2899
5	3	HDR BIAS	8.6478	10.951	2.3035
6	3	HDR UNBIAS	10.521	9.549	-0.9721
7	3	HDR UNBIAS	10.651	8.9059	-1.7451
8	3	HDR UNBIAS	8.5962	10.862	2.2656
9	3	HDR UNBIAS	10.622	10.715	0.0931
10	3	HDR UNBIAS	10.535	9.0176	-1.5172
11	10	HDR BIAS	8.4274	9.0655	0.6381
12	10	HDR BIAS	10.499	10.712	0.2126
13	10	HDR BIAS	11.01	10.943	-0.0673
14	10	HDR BIAS	8.6534	9.3856	0.7322
15	10	HDR BIAS	10.537	8.7684	-1.7686
16	10	HDR UNBIAS	10.57	10.996	0.426
17	10	HDR UNBIAS	8.8112	10.679	1.868
18	10	HDR UNBIAS	10.358	9.5219	-0.8366
19	10	HDR UNBIAS	10.534	11.038	0.5041
20	10	HDR UNBIAS	8.5511	10.822	2.2712
31	30	HDR BIAS	10.465	11.022	0.5563
32	30	HDR BIAS	8.6075	11.087	2.4798
33	30	HDR BIAS	10.358	10.761	0.4023
34	30	HDR BIAS	10.679	9.4362	-1.243
35	30	HDR BIAS	8.6223	8.7786	0.1563
36	30	HDR UNBIAS	10.563	10.508	-0.0557
37	30	HDR UNBIAS	10.665	10.817	0.152
38	30	HDR UNBIAS	8.3717	9.0519	0.6802
39	30	HDR UNBIAS	10.697	8.5734	-2.1236
40	30	HDR UNBIAS	10.865	11.066	0.2005
41	50	HDR BIAS	8.642	10.635	1.993
42	50	HDR BIAS	10.53	9.6202	-0.9098
43	50	HDR BIAS	10.452	10.681	0.2295
44	50	HDR BIAS	8.7774	10.825	2.0479
45	50	HDR BIAS	10.955	10.466	-0.4891
46	50	HDR UNBIAS	10.667	9.5009	-1.1659
47	50	HDR UNBIAS	8.6226	8.6169	-0.0057
48	50	HDR UNBIAS	10.584	10.744	0.1595
49	50	HDR UNBIAS	10.551	10.734	0.183
50	50	HDR UNBIAS	8.5957	9.4054	0.8097
51	100	HDR BIAS	10.198	11.054	0.8558
52	100	HDR BIAS	10.646	10.735	0.0891
53	100	HDR BIAS	8.8844	10.54	1.6557
54	100	HDR BIAS	10.575	9.5822	-0.9929
55	100	HDR BIAS	10.54	9.0726	-1.4677
56	100	HDR UNBIAS	8.8391	10.508	1.6687
57	100	HDR UNBIAS	10.682	10.866	0.1831
58	100	HDR UNBIAS	11.085	9.3151	-1.7696
59	100	HDR UNBIAS	8.7292	10.605	1.8758
60	100	HDR UNBIAS	10.758	11.059	0.3006
91	0	CORRELATION	8.7479	10.809	2.061
92	0	CORRELATION	10.92	9.3089	-1.611
93	0	CORRELATION	10.917	8.9872	-1.9296
94	0	CORRELATION	8.7034	10.615	1.912

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.7034	9.822	10.92	1.2661	8.9872	9.9301	10.809	0.91595	-1.9296	0.1081	2.061	2.1737
3	8.5944	9.9802	10.652	0.9458	8.7736	9.9313	10.951	0.91132	-1.7606	-0.04897	2.3035	1.5116
10	8.4274	9.7952	11.01	1.0369	8.7684	10.193	11.038	0.89602	-1.7686	0.39797	2.2712	1.17
30	8.3717	9.9894	10.865	1.0158	8.5734	10.11	11.087	1.0267	-2.1236	0.12051	2.4798	1.2057
50	8.5957	9.8377	10.955	1.0237	8.6169	10.123	10.825	0.77219	-1.1659	0.28521	2.0479	1.0825
100	8.7292	10.094	11.085	0.90775	9.0726	10.334	11.059	0.7324	-1.7696	0.23986	1.8758	1.3168

Device Test: 24.12 TIMING|OUT_FALL/OUTH/14/14/0/1000/5/500kHz//@OUT_FALL_14V





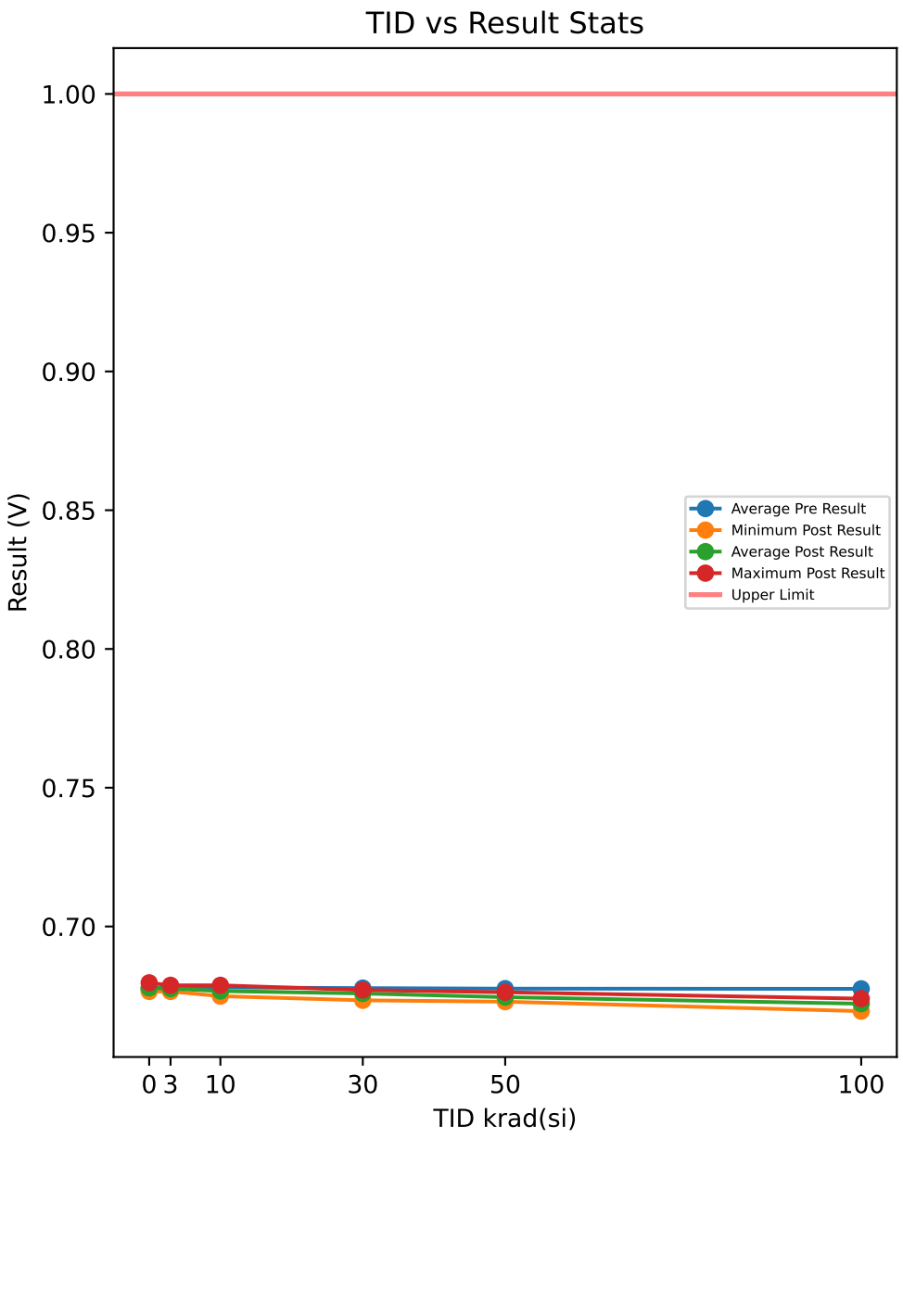
Test Results (Upper Limit = 18.0 (ns))

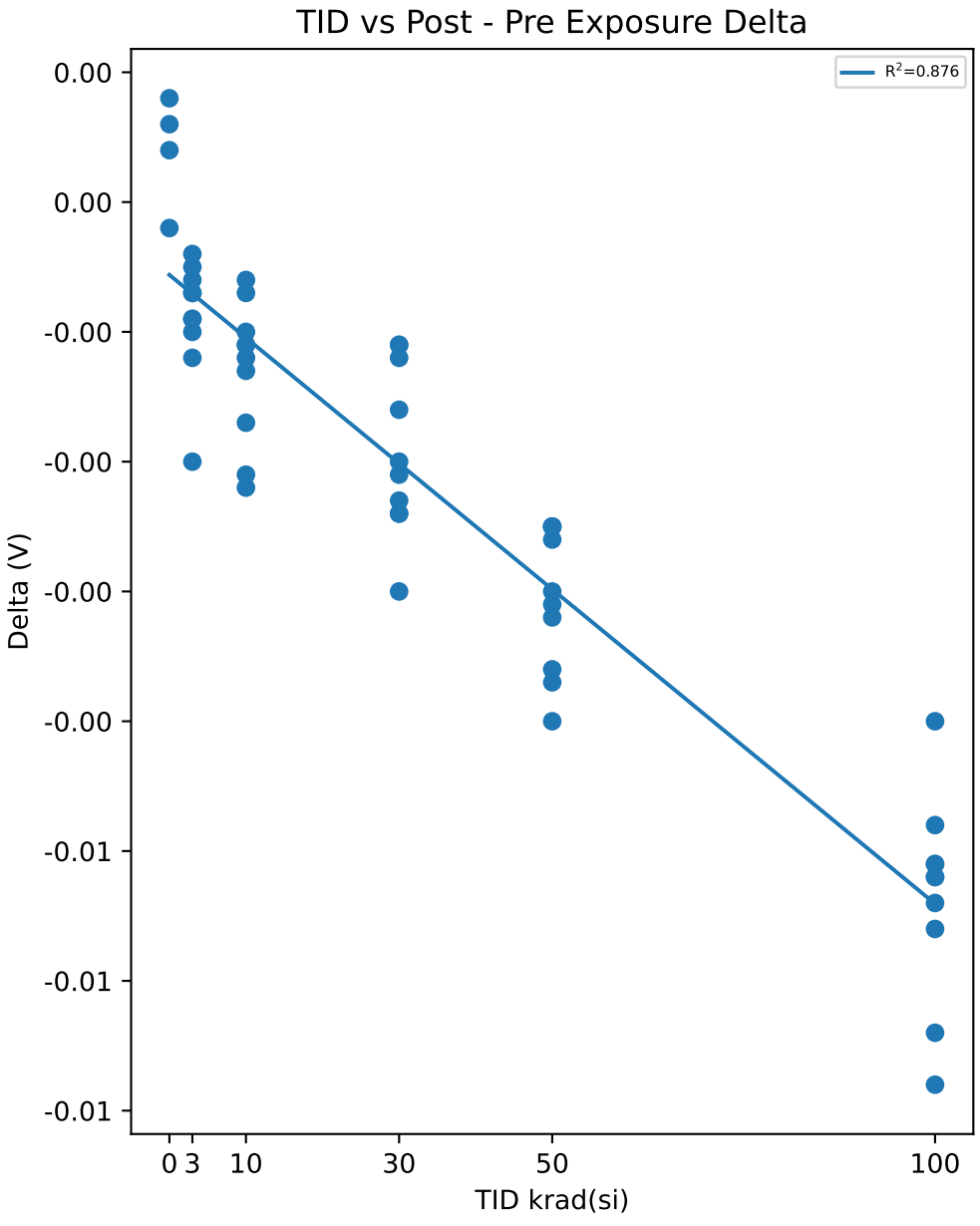
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	11.177	11.492	0.3143
2	3	HDR BIAS	11.327	11.64	0.3128
3	3	HDR BIAS	11.249	11.591	0.341
4	3	HDR BIAS	11.182	11.566	0.3836
5	3	HDR BIAS	11.286	11.389	0.1037
6	3	HDR UNBIAS	11.053	11.636	0.5831
7	3	HDR UNBIAS	11.27	11.674	0.4039
8	3	HDR UNBIAS	11.225	11.473	0.2489
9	3	HDR UNBIAS	11.254	11.588	0.3345
10	3	HDR UNBIAS	11.109	11.603	0.4937
11	10	HDR BIAS	11.346	11.447	0.1013
12	10	HDR BIAS	11.185	11.532	0.3466
13	10	HDR BIAS	11.065	11.669	0.6046
14	10	HDR BIAS	11.436	11.706	0.2699
15	10	HDR BIAS	11.404	11.693	0.2895
16	10	HDR UNBIAS	11.238	11.617	0.3791
17	10	HDR UNBIAS	11.652	11.748	0.0966
18	10	HDR UNBIAS	11.067	11.586	0.5188
19	10	HDR UNBIAS	11.226	11.518	0.2922
20	10	HDR UNBIAS	11.046	11.309	0.2629
31	30	HDR BIAS	11.092	11.328	0.2354
32	30	HDR BIAS	11.197	11.354	0.1572
33	30	HDR BIAS	11.062	11.412	0.3496
34	30	HDR BIAS	11.206	11.628	0.4219
35	30	HDR BIAS	11.34	11.435	0.0948
36	30	HDR UNBIAS	11.063	11.418	0.3551
37	30	HDR UNBIAS	11.359	11.683	0.3234
38	30	HDR UNBIAS	11.165	11.48	0.3145
39	30	HDR UNBIAS	11.065	11.443	0.3779
40	30	HDR UNBIAS	11.382	11.714	0.3323
41	50	HDR BIAS	11.398	11.43	0.0313
42	50	HDR BIAS	11.216	11.733	0.5169
43	50	HDR BIAS	11.374	11.593	0.2192
44	50	HDR BIAS	11.267	11.405	0.1383
45	50	HDR BIAS	10.931	11.216	0.2854
46	50	HDR UNBIAS	11.209	11.655	0.4458
47	50	HDR UNBIAS	11.367	11.487	0.1202
48	50	HDR UNBIAS	10.987	11.319	0.3326
49	50	HDR UNBIAS	11.209	11.5	0.2906
50	50	HDR UNBIAS	11.323	11.6	0.2765
51	100	HDR BIAS	11.174	11.392	0.218
52	100	HDR BIAS	11.132	11.418	0.286
53	100	HDR BIAS	11.219	11.256	0.0369
54	100	HDR BIAS	11.074	11.444	0.3698
55	100	HDR BIAS	11.263	11.419	0.1554
56	100	HDR UNBIAS	11.364	11.441	0.0775
57	100	HDR UNBIAS	11.184	11.386	0.2016
58	100	HDR UNBIAS	11.133	11.535	0.4018
59	100	HDR UNBIAS	11.386	11.362	-0.0241
60	100	HDR UNBIAS	11.277	11.544	0.2676
91	0	CORRELATION	11.392	11.531	0.1387
92	0	CORRELATION	11.027	11.457	0.4301
93	0	CORRELATION	11.022	11.339	0.3171
94	0	CORRELATION	11.245	11.546	0.3013

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.022	11.172	11.392	0.18011	11.339	11.468	11.546	0.094452	0.1387	0.2968	0.4301	0.12
3	11.053	11.213	11.327	0.083823	11.389	11.565	11.674	0.088091	0.1037	0.35195	0.5831	0.13032
10	11.046	11.266	11.652	0.19445	11.309	11.583	11.748	0.13473	0.0966	0.31615	0.6046	0.15979
30	11.062	11.193	11.382	0.1275	11.328	11.489	11.714	0.13656	0.0948	0.29621	0.4219	0.10261
50	10.931	11.228	11.398	0.15895	11.216	11.494	11.733	0.15764	0.0313	0.26568	0.5169	0.14744
100	11.074	11.221	11.386	0.10189	11.256	11.42	11.544	0.082849	-0.0241	0.19905	0.4018	0.1397

Device Test: 24.13 VOLTAGE|OUT_CLAMP/OUTL/0/0/0/0/0/0//@OUT_CLAMP_0V





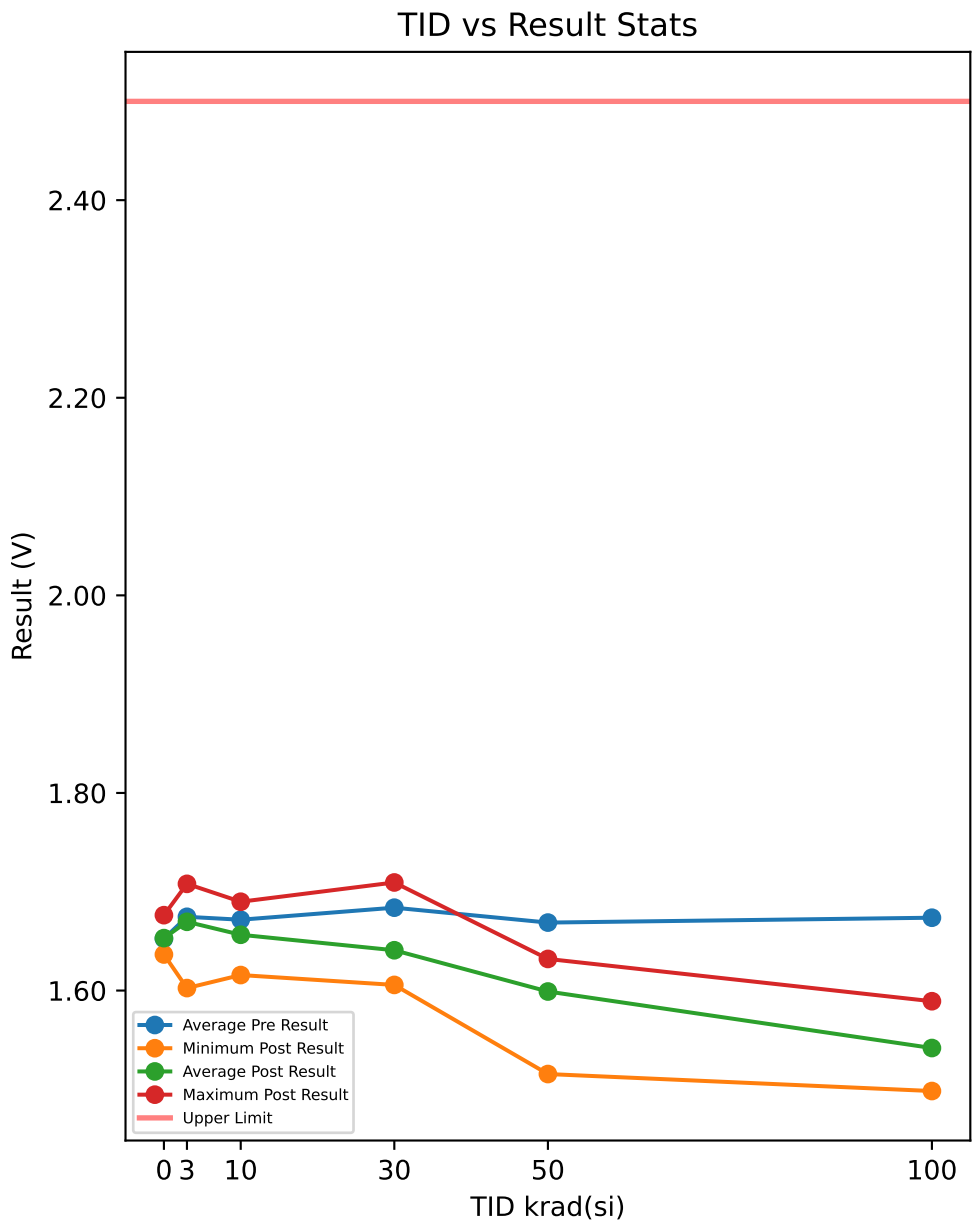
Test Results (Upper Limit = 1.0 (V))

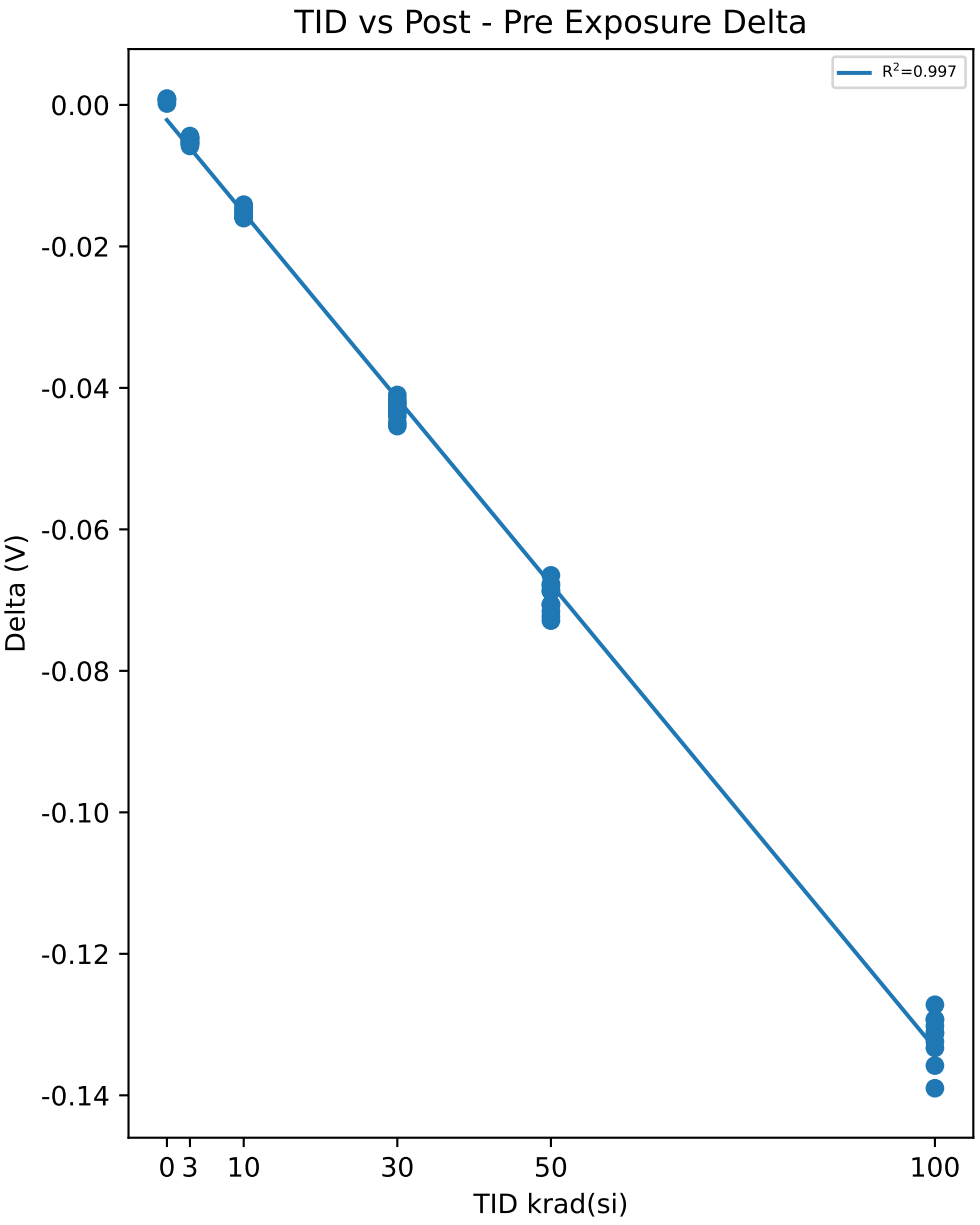
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.6783	0.6777	-0.0006
2	3	HDR BIAS	0.6796	0.6784	-0.0012
3	3	HDR BIAS	0.6775	0.6766	-0.0009
4	3	HDR BIAS	0.6787	0.6782	-0.0005
5	3	HDR BIAS	0.6779	0.6772	-0.0007
6	3	HDR UNBIAS	0.6805	0.6785	-0.002
7	3	HDR UNBIAS	0.6771	0.6767	-0.0004
8	3	HDR UNBIAS	0.6795	0.6788	-0.0007
9	3	HDR UNBIAS	0.678	0.6771	-0.0009
10	3	HDR UNBIAS	0.6778	0.6768	-0.001
11	10	HDR BIAS	0.6779	0.6773	-0.0006
12	10	HDR BIAS	0.679	0.678	-0.001
13	10	HDR BIAS	0.6799	0.6788	-0.0011
14	10	HDR BIAS	0.677	0.6749	-0.0021
15	10	HDR BIAS	0.6771	0.6754	-0.0017
16	10	HDR UNBIAS	0.6784	0.6777	-0.0007
17	10	HDR UNBIAS	0.677	0.6758	-0.0012
18	10	HDR UNBIAS	0.6782	0.676	-0.0022
19	10	HDR UNBIAS	0.6777	0.6766	-0.0011
20	10	HDR UNBIAS	0.6782	0.6769	-0.0013
31	30	HDR BIAS	0.6777	0.6765	-0.0012
32	30	HDR BIAS	0.678	0.6764	-0.0016
33	30	HDR BIAS	0.6793	0.677	-0.0023
34	30	HDR BIAS	0.6764	0.6734	-0.003
35	30	HDR BIAS	0.6783	0.6763	-0.002
36	30	HDR UNBIAS	0.6779	0.6755	-0.0024
37	30	HDR UNBIAS	0.6782	0.6771	-0.0011
38	30	HDR UNBIAS	0.6768	0.6744	-0.0024
39	30	HDR UNBIAS	0.6781	0.676	-0.0021
40	30	HDR UNBIAS	0.6772	0.6761	-0.0011
41	50	HDR BIAS	0.6778	0.6748	-0.003
42	50	HDR BIAS	0.6779	0.6739	-0.004
43	50	HDR BIAS	0.6767	0.6742	-0.0025
44	50	HDR BIAS	0.6769	0.6744	-0.0025
45	50	HDR BIAS	0.6765	0.6729	-0.0036
46	50	HDR UNBIAS	0.6782	0.675	-0.0032
47	50	HDR UNBIAS	0.6784	0.6759	-0.0025
48	50	HDR UNBIAS	0.6794	0.6763	-0.0031
49	50	HDR UNBIAS	0.6771	0.6745	-0.0026
50	50	HDR UNBIAS	0.6771	0.6734	-0.0037
51	100	HDR BIAS	0.6784	0.6733	-0.0051
52	100	HDR BIAS	0.6767	0.6713	-0.0054
53	100	HDR BIAS	0.6786	0.6735	-0.0051
54	100	HDR BIAS	0.679	0.6722	-0.0068
55	100	HDR BIAS	0.678	0.674	-0.004
56	100	HDR UNBIAS	0.6767	0.6711	-0.0056
57	100	HDR UNBIAS	0.6777	0.6725	-0.0052
58	100	HDR UNBIAS	0.6769	0.6721	-0.0048
59	100	HDR UNBIAS	0.6774	0.6722	-0.0052
60	100	HDR UNBIAS	0.6759	0.6695	-0.0064
91	0	CORRELATION	0.6789	0.6797	0.0008
92	0	CORRELATION	0.6784	0.6782	-0.0002
93	0	CORRELATION	0.676	0.6766	0.0006
94	0	CORRELATION	0.6766	0.677	0.0004

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.676	0.67748	0.6789	0.0013937	0.6766	0.67788	0.6797	0.0013937	-0.0002	0.0004	0.0008	0.00043205
3	0.6771	0.67849	0.6805	0.0010723	0.6766	0.6776	0.6788	0.00082462	-0.002	-0.00089	-0.0004	0.00045814
10	0.677	0.67804	0.6799	0.0009276	0.6749	0.67674	0.6788	0.0012349	-0.0022	-0.0013	-0.0006	0.0005416
30	0.6764	0.67779	0.6793	0.00082523	0.6734	0.67587	0.6771	0.0011605	-0.003	-0.00192	-0.0011	0.00064773
50	0.6765	0.6776	0.6794	0.00090554	0.6729	0.67453	0.6763	0.0010414	-0.004	-0.00307	-0.0025	0.00055388
100	0.6759	0.67753	0.679	0.00098663	0.6695	0.67217	0.674	0.0013141	-0.0068	-0.00536	-0.004	0.00078627

Device Test: 24.14 VOLTAGE|OUT_CLAMP/OUTL/5/0/0/0/0/0//@OUT_CLAMP_FULL





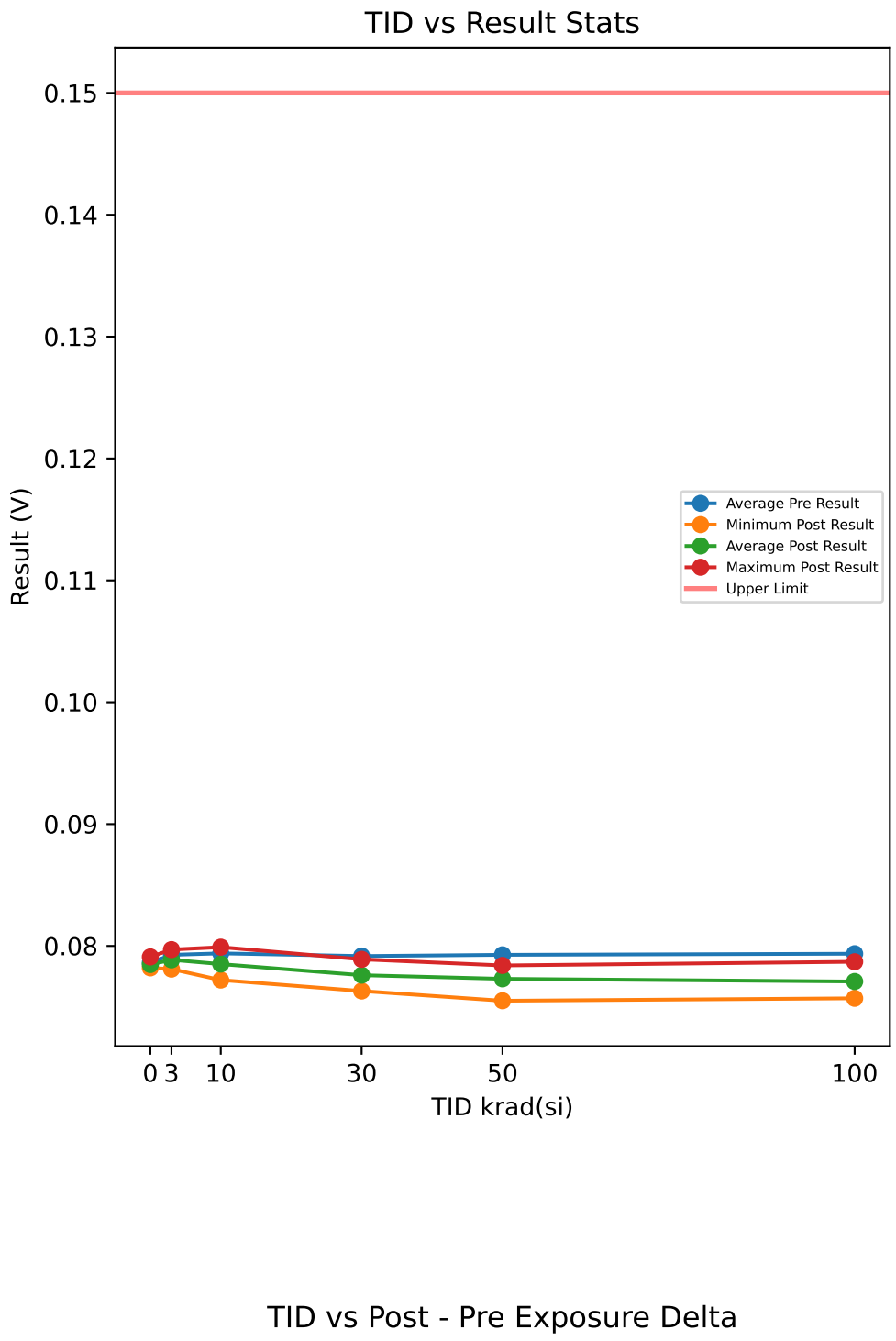
Test Results (Upper Limit = 2.5 (V))

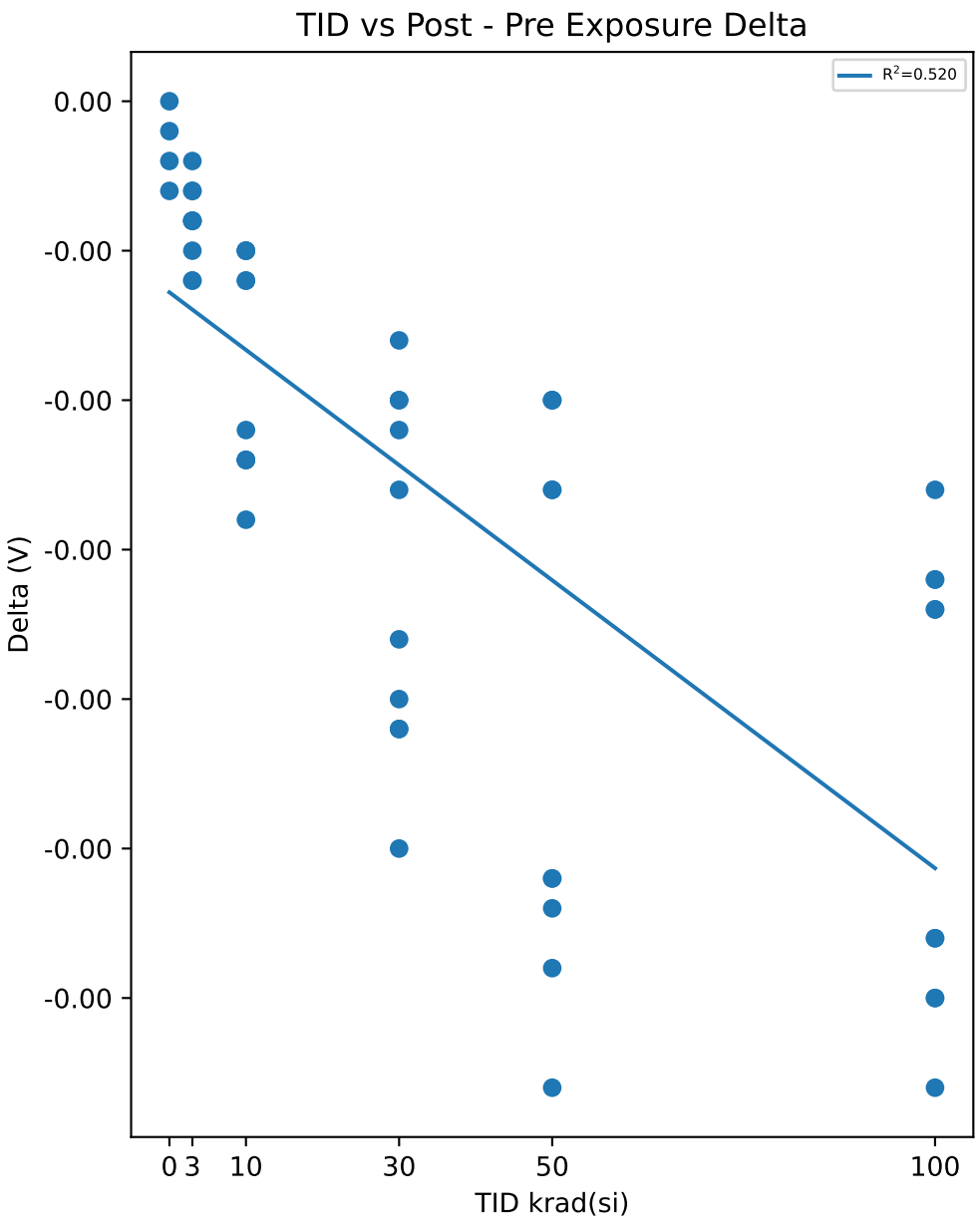
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.7002	1.6953	-0.0049
2	3	HDR BIAS	1.7029	1.6982	-0.0047
3	3	HDR BIAS	1.69	1.6848	-0.0052
4	3	HDR BIAS	1.7127	1.708	-0.0047
5	3	HDR BIAS	1.663	1.6576	-0.0054
6	3	HDR UNBIAS	1.6662	1.6607	-0.0055
7	3	HDR UNBIAS	1.6069	1.6025	-0.0044
8	3	HDR UNBIAS	1.6766	1.6713	-0.0053
9	3	HDR UNBIAS	1.6886	1.6828	-0.0058
10	3	HDR UNBIAS	1.6393	1.6347	-0.0046
11	10	HDR BIAS	1.7051	1.6899	-0.0152
12	10	HDR BIAS	1.6835	1.6679	-0.0156
13	10	HDR BIAS	1.6303	1.6157	-0.0146
14	10	HDR BIAS	1.6874	1.6715	-0.0159
15	10	HDR BIAS	1.636	1.62	-0.016
16	10	HDR UNBIAS	1.7029	1.6888	-0.0141
17	10	HDR UNBIAS	1.7024	1.6878	-0.0146
18	10	HDR UNBIAS	1.6477	1.6318	-0.0159
19	10	HDR UNBIAS	1.6742	1.659	-0.0152
20	10	HDR UNBIAS	1.6474	1.6323	-0.0151
31	30	HDR BIAS	1.6857	1.6417	-0.044
32	30	HDR BIAS	1.6513	1.6097	-0.0416
33	30	HDR BIAS	1.6486	1.6057	-0.0429
34	30	HDR BIAS	1.6818	1.6369	-0.0449
35	30	HDR BIAS	1.6859	1.6426	-0.0433
36	30	HDR UNBIAS	1.6615	1.6181	-0.0434
37	30	HDR UNBIAS	1.7504	1.7094	-0.041
38	30	HDR UNBIAS	1.6929	1.6506	-0.0423
39	30	HDR UNBIAS	1.6766	1.6312	-0.0454
40	30	HDR UNBIAS	1.7041	1.662	-0.0421
41	50	HDR BIAS	1.7049	1.632	-0.0729
42	50	HDR BIAS	1.688	1.6174	-0.0706
43	50	HDR BIAS	1.6996	1.6309	-0.0687
44	50	HDR BIAS	1.5966	1.5243	-0.0723
45	50	HDR BIAS	1.6496	1.5816	-0.068
46	50	HDR UNBIAS	1.6862	1.6185	-0.0677
47	50	HDR UNBIAS	1.582	1.5155	-0.0665
48	50	HDR UNBIAS	1.683	1.6143	-0.0687
49	50	HDR UNBIAS	1.6973	1.6257	-0.0716
50	50	HDR UNBIAS	1.7008	1.6301	-0.0707
51	100	HDR BIAS	1.6518	1.516	-0.1358
52	100	HDR BIAS	1.6806	1.5504	-0.1302
53	100	HDR BIAS	1.6672	1.5379	-0.1293
54	100	HDR BIAS	1.6433	1.51	-0.1333
55	100	HDR BIAS	1.6991	1.5678	-0.1313
56	100	HDR UNBIAS	1.6307	1.4983	-0.1324
57	100	HDR UNBIAS	1.7185	1.5892	-0.1293
58	100	HDR UNBIAS	1.6506	1.5234	-0.1272
59	100	HDR UNBIAS	1.7122	1.5732	-0.139
60	100	HDR UNBIAS	1.6832	1.5521	-0.1311
91	0	CORRELATION	1.6565	1.6573	0.0008
92	0	CORRELATION	1.642	1.6422	0.0002
93	0	CORRELATION	1.6754	1.6763	0.0009
94	0	CORRELATION	1.6358	1.6365	0.0007

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.6358	1.6524	1.6754	0.017602	1.6365	1.6531	1.6763	0.017797	0.0002	0.00065	0.0009	0.00031091
3	1.6069	1.6746	1.7127	0.032283	1.6025	1.6696	1.708	0.032154	-0.0058	-0.00505	-0.0044	0.00045522
10	1.6303	1.6717	1.7051	0.029018	1.6157	1.6565	1.6899	0.029235	-0.016	-0.01522	-0.0141	0.00064256
30	1.6486	1.6839	1.7504	0.029414	1.6057	1.6408	1.7094	0.029958	-0.0454	-0.04309	-0.041	0.0014067
50	1.582	1.6688	1.7049	0.044817	1.5155	1.599	1.632	0.044215	-0.0729	-0.06977	-0.0665	0.0021474
100	1.6307	1.6737	1.7185	0.030002	1.4983	1.5418	1.5892	0.029836	-0.139	-0.13189	-0.1272	0.0034533

Device Test: 24.15 LEVEL|LOW_LEVEL/OUTL/8/8/0/0/5/500kHz//@OUT_VOL





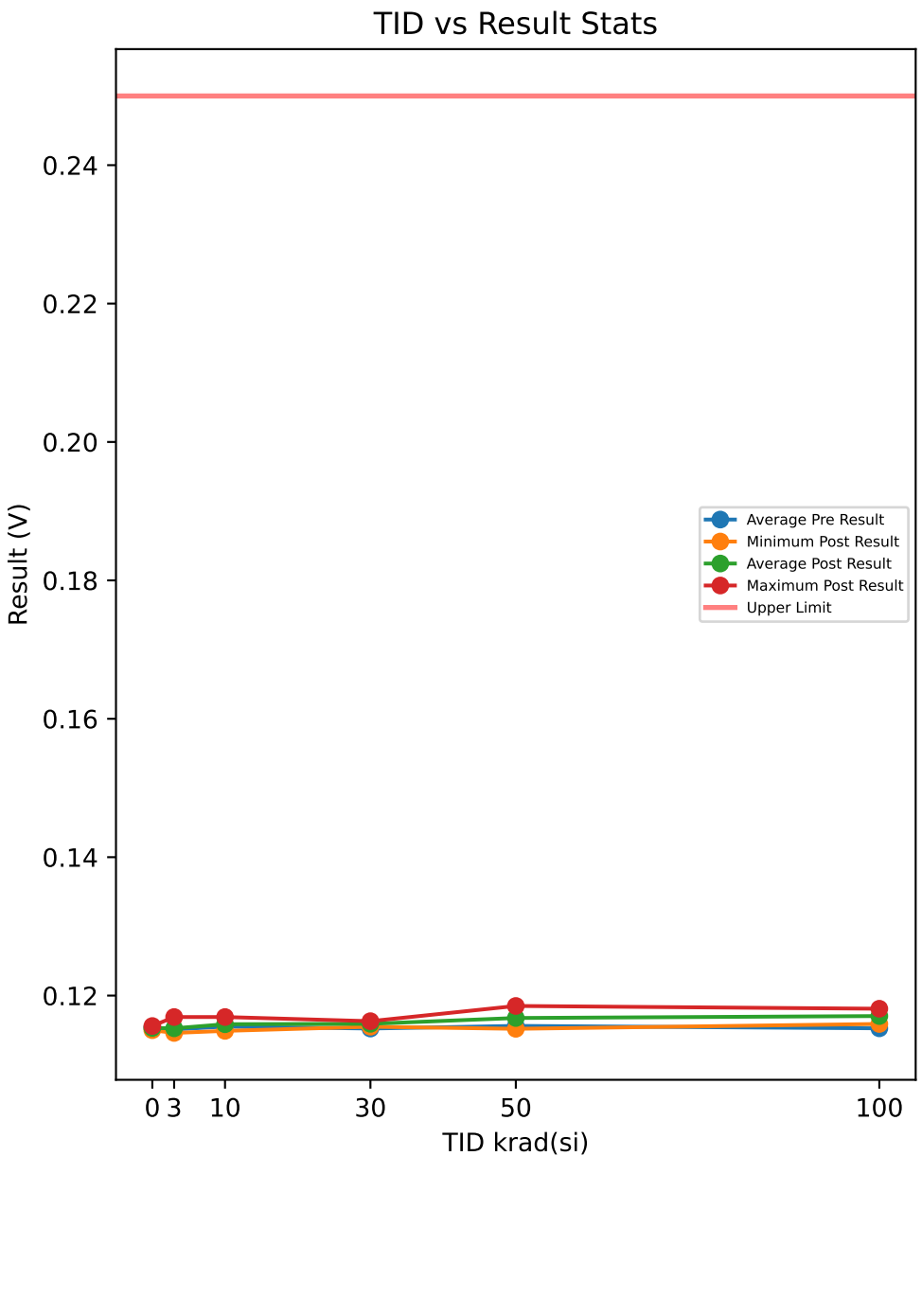
Test Results (Upper Limit = 0.15 (V))

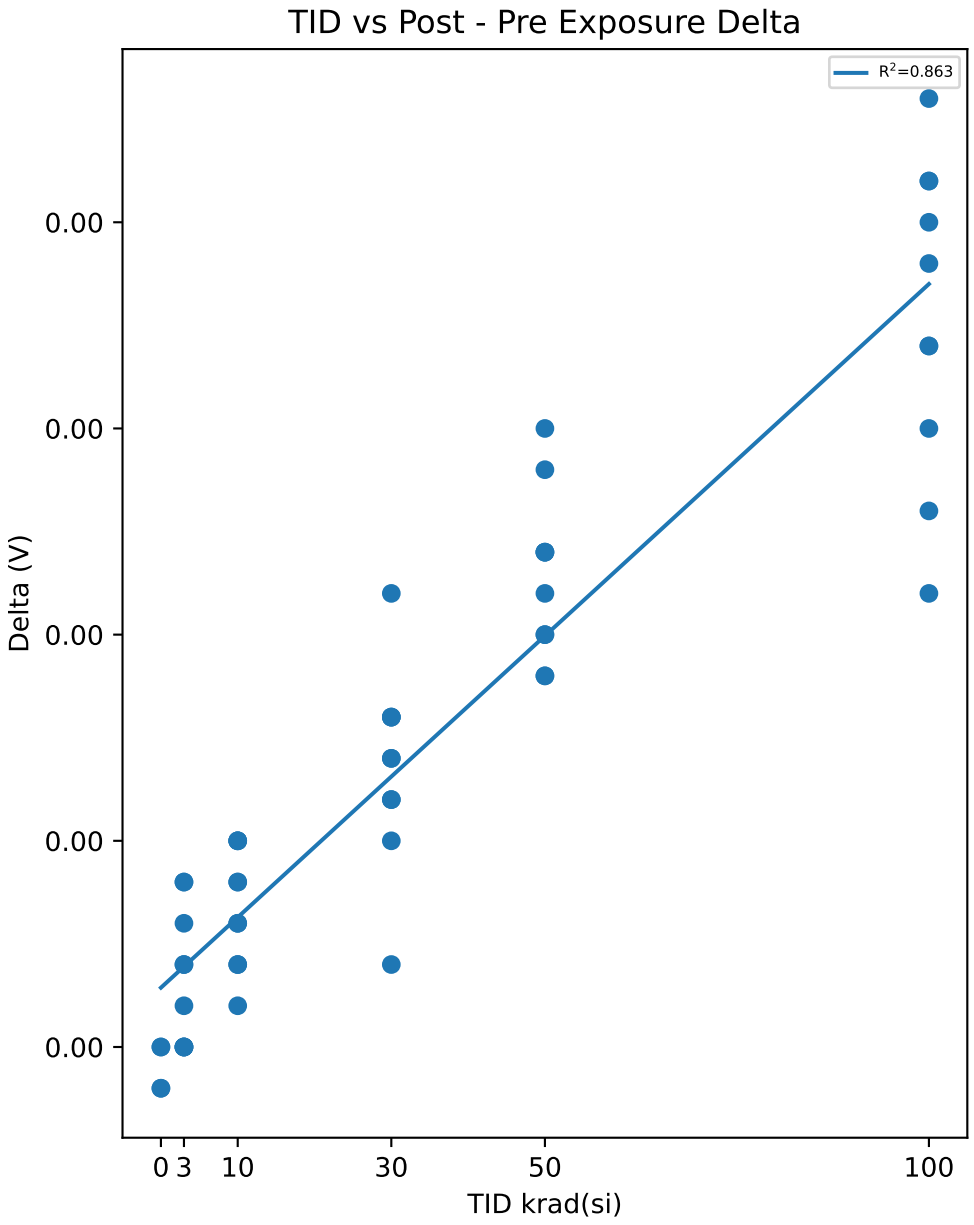
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.0792	0.0787	-0.0005
2	3	HDR BIAS	0.0785	0.0781	-0.0004
3	3	HDR BIAS	0.0796	0.0792	-0.0004
4	3	HDR BIAS	0.0793	0.0787	-0.0006
5	3	HDR BIAS	0.0791	0.0785	-0.0006
6	3	HDR UNBIAS	0.079	0.0788	-0.0002
7	3	HDR UNBIAS	0.0798	0.0794	-0.0004
8	3	HDR UNBIAS	0.079	0.0787	-0.0003
9	3	HDR UNBIAS	0.08	0.0797	-0.0003
10	3	HDR UNBIAS	0.0792	0.0788	-0.0004
11	10	HDR BIAS	0.0793	0.0781	-0.0012
12	10	HDR BIAS	0.0791	0.0779	-0.0012
13	10	HDR BIAS	0.0784	0.0772	-0.0012
14	10	HDR BIAS	0.0796	0.0785	-0.0011
15	10	HDR BIAS	0.0802	0.0788	-0.0014
16	10	HDR UNBIAS	0.0795	0.0789	-0.0006
17	10	HDR UNBIAS	0.0805	0.0799	-0.0006
18	10	HDR UNBIAS	0.079	0.0785	-0.0005
19	10	HDR UNBIAS	0.0798	0.0793	-0.0005
20	10	HDR UNBIAS	0.0785	0.078	-0.0005
31	30	HDR BIAS	0.079	0.0765	-0.0025
32	30	HDR BIAS	0.0783	0.0763	-0.002
33	30	HDR BIAS	0.0784	0.0763	-0.0021
34	30	HDR BIAS	0.0797	0.0776	-0.0021
35	30	HDR BIAS	0.0792	0.0774	-0.0018
36	30	HDR UNBIAS	0.0791	0.0781	-0.001
37	30	HDR UNBIAS	0.08	0.0787	-0.0013
38	30	HDR UNBIAS	0.079	0.0782	-0.0008
39	30	HDR UNBIAS	0.079	0.078	-0.001
40	30	HDR UNBIAS	0.08	0.0789	-0.0011
41	50	HDR BIAS	0.0795	0.0766	-0.0029
42	50	HDR BIAS	0.0795	0.0762	-0.0033
43	50	HDR BIAS	0.0802	0.0775	-0.0027
44	50	HDR BIAS	0.0793	0.0767	-0.0026
45	50	HDR BIAS	0.0781	0.0755	-0.0026
46	50	HDR UNBIAS	0.0793	0.078	-0.0013
47	50	HDR UNBIAS	0.0794	0.0784	-0.001
48	50	HDR UNBIAS	0.0786	0.0776	-0.001
49	50	HDR UNBIAS	0.0797	0.0784	-0.0013
50	50	HDR UNBIAS	0.0791	0.0781	-0.001
51	100	HDR BIAS	0.0791	0.0763	-0.0028
52	100	HDR BIAS	0.0795	0.0767	-0.0028
53	100	HDR BIAS	0.0787	0.0757	-0.003
54	100	HDR BIAS	0.0793	0.0763	-0.003
55	100	HDR BIAS	0.079	0.0757	-0.0033
56	100	HDR UNBIAS	0.0794	0.0778	-0.0016
57	100	HDR UNBIAS	0.0794	0.0778	-0.0016
58	100	HDR UNBIAS	0.0794	0.0781	-0.0013
59	100	HDR UNBIAS	0.0794	0.0777	-0.0017
60	100	HDR UNBIAS	0.0804	0.0787	-0.0017
91	0	CORRELATION	0.0785	0.0782	-0.0003
92	0	CORRELATION	0.0783	0.0782	-0.0001
93	0	CORRELATION	0.0784	0.0784	0
94	0	CORRELATION	0.0793	0.0791	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0783	0.078625	0.0793	0.00045735	0.0782	0.078475	0.0791	0.0004272	-0.0003	-0.00015	0	0.0001291
3	0.0785	0.07927	0.08	0.00043474	0.0781	0.07886	0.0797	0.00045995	-0.0006	-0.00041	-0.0002	0.00012867
10	0.0784	0.07939	0.0805	0.00067733	0.0772	0.07851	0.0799	0.00076804	-0.0014	-0.00088	-0.0005	0.00036757
30	0.0783	0.07917	0.08	0.00058699	0.0763	0.0776	0.0789	0.00096032	-0.0025	-0.00157	-0.0008	0.00059638
50	0.0781	0.07927	0.0802	0.00057937	0.0755	0.0773	0.0784	0.00099889	-0.0033	-0.00197	-0.001	0.00092382
100	0.0787	0.07936	0.0804	0.0004402	0.0757	0.07708	0.0787	0.0010675	-0.0033	-0.00228	-0.0013	0.00075836

Device Test: 24.16 LEVEL|HIGH_LEVEL/OUTH/8/8/0/0/5/500kHz//@OUT_VOH





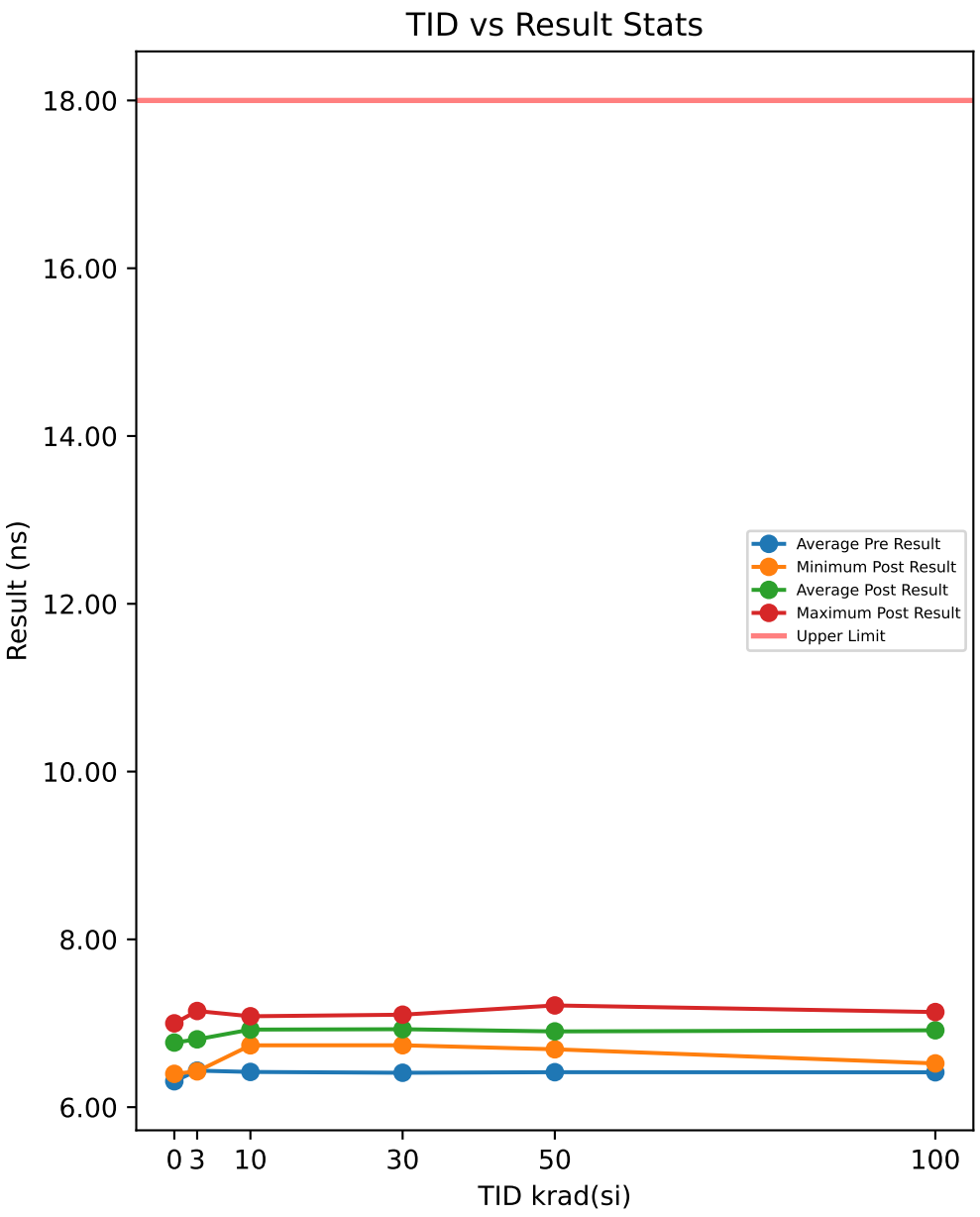
Test Results (Upper Limit = 0.25 (V))

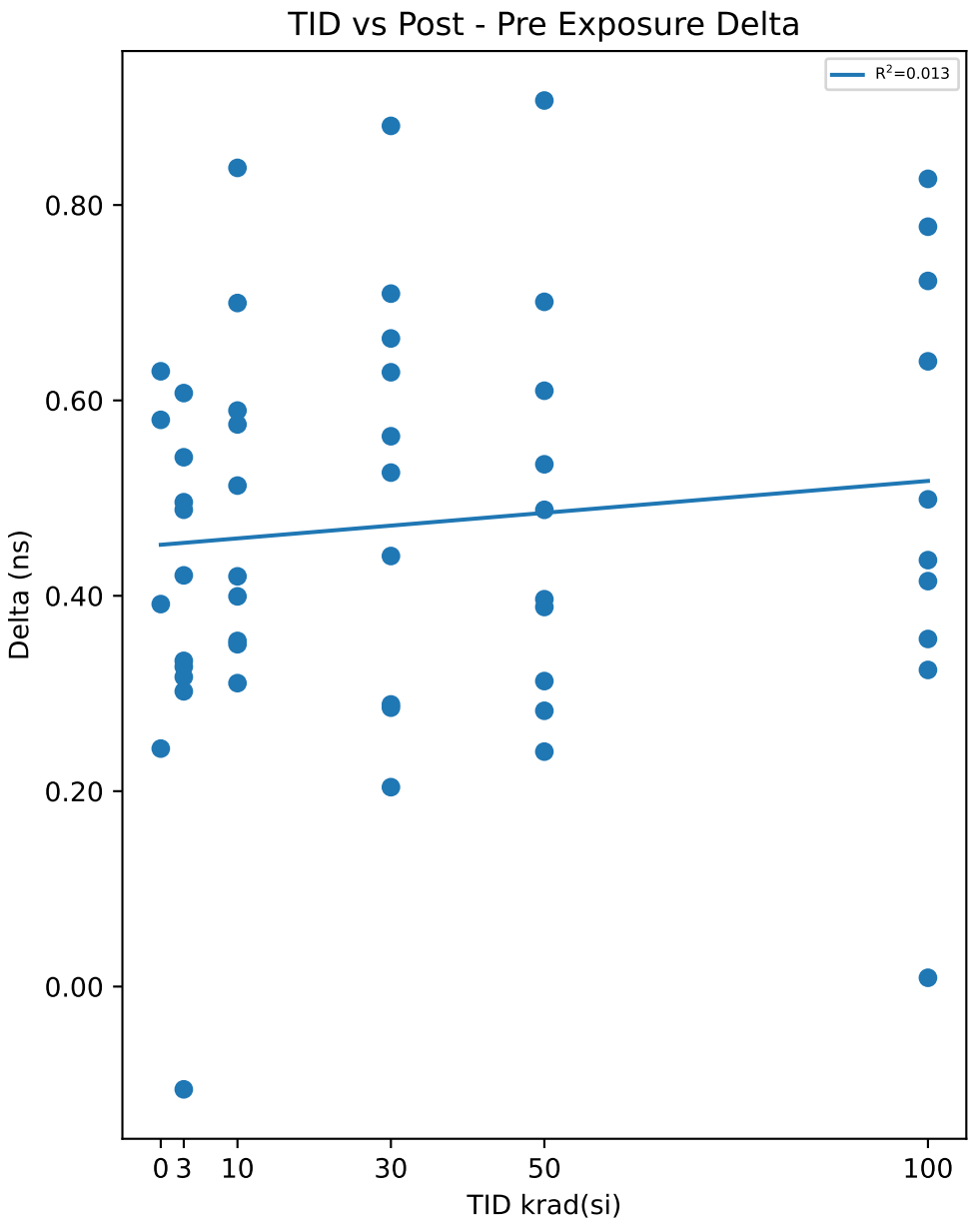
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.115	0.115	0
2	3	HDR BIAS	0.1148	0.1149	0.0001
3	3	HDR BIAS	0.1165	0.1169	0.0004
4	3	HDR BIAS	0.1146	0.1146	0
5	3	HDR BIAS	0.1144	0.1146	0.0002
6	3	HDR UNBIAS	0.1157	0.1161	0.0004
7	3	HDR UNBIAS	0.1144	0.1146	0.0002
8	3	HDR UNBIAS	0.1155	0.1155	0
9	3	HDR UNBIAS	0.1154	0.1157	0.0003
10	3	HDR UNBIAS	0.1148	0.1148	0
11	10	HDR BIAS	0.1145	0.1149	0.0004
12	10	HDR BIAS	0.1161	0.1164	0.0003
13	10	HDR BIAS	0.1152	0.1154	0.0002
14	10	HDR BIAS	0.1161	0.1166	0.0005
15	10	HDR BIAS	0.1152	0.1157	0.0005
16	10	HDR UNBIAS	0.1154	0.1155	0.0001
17	10	HDR UNBIAS	0.1164	0.1169	0.0005
18	10	HDR UNBIAS	0.1152	0.1156	0.0004
19	10	HDR UNBIAS	0.1161	0.1164	0.0003
20	10	HDR UNBIAS	0.115	0.1152	0.0002
31	30	HDR BIAS	0.1151	0.1156	0.0005
32	30	HDR BIAS	0.1153	0.1161	0.0008
33	30	HDR BIAS	0.1156	0.1163	0.0007
34	30	HDR BIAS	0.1153	0.1161	0.0008
35	30	HDR BIAS	0.115	0.1161	0.0011
36	30	HDR UNBIAS	0.1154	0.1162	0.0008
37	30	HDR UNBIAS	0.1154	0.1156	0.0002
38	30	HDR UNBIAS	0.1154	0.116	0.0006
39	30	HDR UNBIAS	0.1148	0.1155	0.0007
40	30	HDR UNBIAS	0.1151	0.1157	0.0006
41	50	HDR BIAS	0.1142	0.1152	0.001
42	50	HDR BIAS	0.1148	0.1162	0.0014
43	50	HDR BIAS	0.1173	0.1185	0.0012
44	50	HDR BIAS	0.1152	0.1164	0.0012
45	50	HDR BIAS	0.1157	0.1172	0.0015
46	50	HDR UNBIAS	0.1159	0.1168	0.0009
47	50	HDR UNBIAS	0.1152	0.1161	0.0009
48	50	HDR UNBIAS	0.1162	0.1172	0.001
49	50	HDR UNBIAS	0.117	0.1181	0.0011
50	50	HDR UNBIAS	0.1147	0.1159	0.0012
51	100	HDR BIAS	0.116	0.1181	0.0021
52	100	HDR BIAS	0.1147	0.1164	0.0017
53	100	HDR BIAS	0.1162	0.1181	0.0019
54	100	HDR BIAS	0.1157	0.1178	0.0021
55	100	HDR BIAS	0.1148	0.1171	0.0023
56	100	HDR UNBIAS	0.1161	0.1178	0.0017
57	100	HDR UNBIAS	0.1146	0.1161	0.0015
58	100	HDR UNBIAS	0.1148	0.1159	0.0011
59	100	HDR UNBIAS	0.1152	0.1172	0.002
60	100	HDR UNBIAS	0.1146	0.1159	0.0013
91	0	CORRELATION	0.1155	0.1155	0
92	0	CORRELATION	0.1151	0.115	-0.0001
93	0	CORRELATION	0.1153	0.1152	-0.0001
94	0	CORRELATION	0.1156	0.1156	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1151	0.11538	0.1156	0.00022174	0.115	0.11532	0.1156	0.00027538	-0.0001	-5e-05	0	5.7735e-05
3	0.1144	0.11511	0.1165	0.00066575	0.1146	0.11527	0.1169	0.00077179	0	0.00016	0.0004	0.00016465
10	0.1145	0.11552	0.1164	0.00061608	0.1149	0.11586	0.1169	0.000667	0.0001	0.00034	0.0005	0.00014298
30	0.1148	0.11524	0.1156	0.00023664	0.1155	0.11592	0.1163	0.00028983	0.0002	0.00068	0.0011	0.00023476
50	0.1142	0.11562	0.1173	0.001002	0.1152	0.11676	0.1185	0.0010146	0.0009	0.00114	0.0015	0.00020111
100	0.1146	0.11527	0.1162	0.00066173	0.1159	0.11704	0.1181	0.0009021	0.0011	0.00177	0.0023	0.00038312

Device Test: 24.17 TIMING|OUT_RISE/OUTH/8/8/0/1000/4.5/500kHz//@OUT_RISE_8V





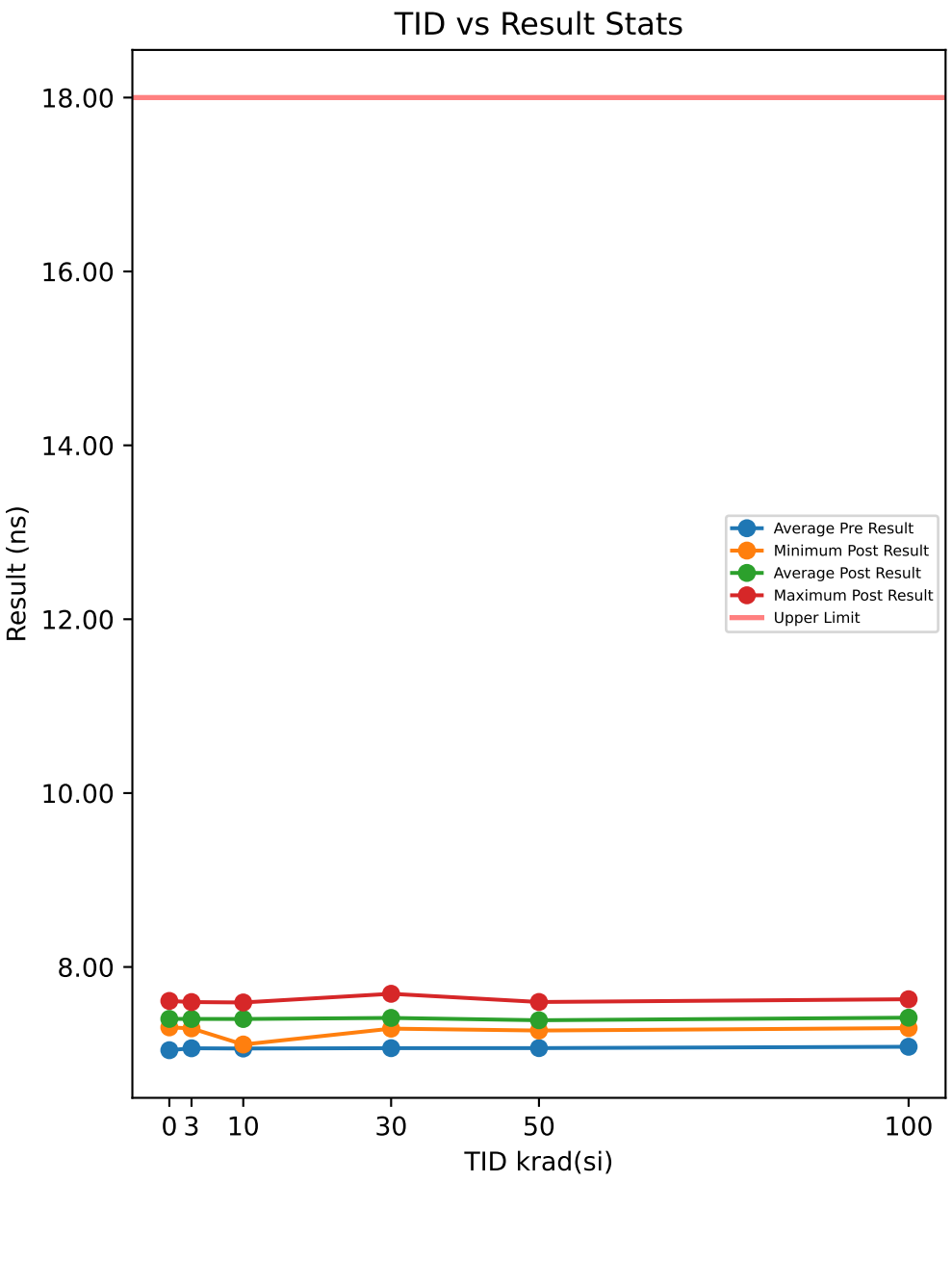
Test Results (Upper Limit = 18.0 (ns))

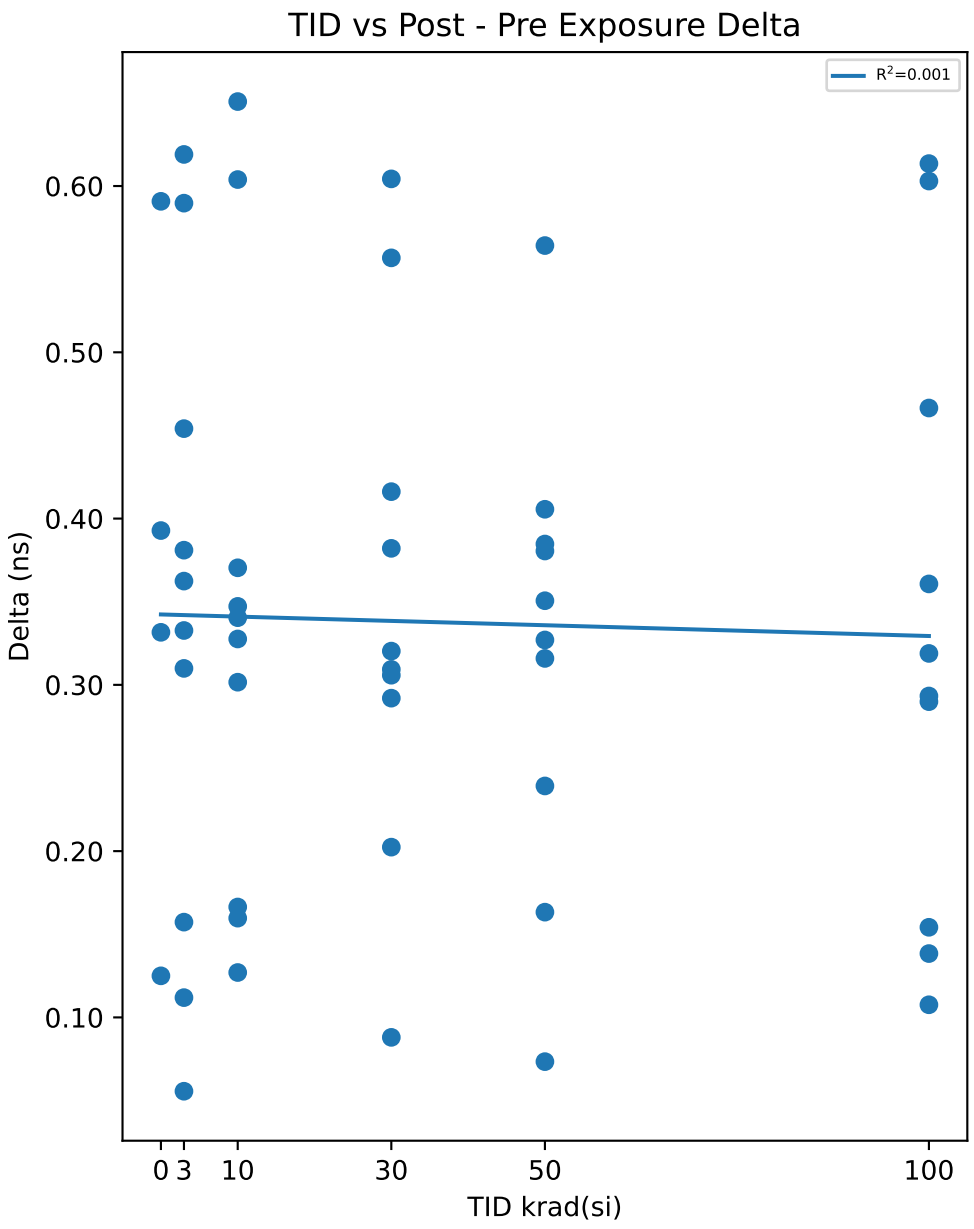
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	6.5319	6.4267	-0.1052
2	3	HDR BIAS	6.2942	6.7823	0.4881
3	3	HDR BIAS	6.7252	7.1461	0.4209
4	3	HDR BIAS	6.4491	6.766	0.3169
5	3	HDR BIAS	6.2143	6.5165	0.3022
6	3	HDR UNBIAS	6.5606	6.888	0.3274
7	3	HDR UNBIAS	6.4656	7.0074	0.5418
8	3	HDR UNBIAS	6.2824	6.8899	0.6075
9	3	HDR UNBIAS	6.3961	6.8919	0.4958
10	3	HDR UNBIAS	6.435	6.7684	0.3334
11	10	HDR BIAS	6.1526	6.9906	0.838
12	10	HDR BIAS	6.6242	6.9746	0.3504
13	10	HDR BIAS	6.4499	6.8493	0.3994
14	10	HDR BIAS	6.1832	6.8829	0.6997
15	10	HDR BIAS	6.4653	7.0549	0.5896
16	10	HDR UNBIAS	6.3997	6.9125	0.5128
17	10	HDR UNBIAS	6.3832	6.737	0.3538
18	10	HDR UNBIAS	6.5934	6.904	0.3106
19	10	HDR UNBIAS	6.6636	7.0835	0.4199
20	10	HDR UNBIAS	6.2823	6.8577	0.5754
31	30	HDR BIAS	6.4712	7.0345	0.5633
32	30	HDR BIAS	6.2083	6.8717	0.6634
33	30	HDR BIAS	6.3961	6.9222	0.5261
34	30	HDR BIAS	6.5609	6.8497	0.2888
35	30	HDR BIAS	6.1813	7.0623	0.881
36	30	HDR UNBIAS	6.6477	6.8518	0.2041
37	30	HDR UNBIAS	6.5777	7.0184	0.4407
38	30	HDR UNBIAS	6.1091	6.7379	0.6288
39	30	HDR UNBIAS	6.3928	7.1021	0.7093
40	30	HDR UNBIAS	6.554	6.8395	0.2855
41	50	HDR BIAS	6.3013	6.6898	0.3885
42	50	HDR BIAS	6.4698	6.8663	0.3965
43	50	HDR BIAS	6.6779	7.2125	0.5346
44	50	HDR BIAS	6.314	6.9239	0.6099
45	50	HDR BIAS	6.435	6.7477	0.3127
46	50	HDR UNBIAS	6.5824	6.8647	0.2823
47	50	HDR UNBIAS	6.1768	7.0838	0.907
48	50	HDR UNBIAS	6.4704	6.9584	0.488
49	50	HDR UNBIAS	6.6126	6.8531	0.2405
50	50	HDR UNBIAS	6.1272	6.8281	0.7009
51	100	HDR BIAS	6.3959	7.1182	0.7223
52	100	HDR BIAS	6.413	6.9117	0.4987
53	100	HDR BIAS	6.3599	6.7749	0.415
54	100	HDR BIAS	6.6353	6.9594	0.3241
55	100	HDR BIAS	6.4598	7.0998	0.64
56	100	HDR UNBIAS	6.2439	7.0217	0.7778
57	100	HDR UNBIAS	6.5124	6.5214	0.009
58	100	HDR UNBIAS	6.3871	6.8236	0.4365
59	100	HDR UNBIAS	6.3069	7.1337	0.8268
60	100	HDR UNBIAS	6.442	6.7978	0.3558
91	0	CORRELATION	6.1534	6.397	0.2436
92	0	CORRELATION	6.4186	6.8101	0.3915
93	0	CORRELATION	6.3691	6.9989	0.6298
94	0	CORRELATION	6.2935	6.8736	0.5801

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.1534	6.3087	6.4186	0.11558	6.397	6.7699	6.9989	0.26068	0.2436	0.46125	0.6298	0.17774
3	6.2143	6.4354	6.7252	0.1505	6.4267	6.8083	7.1461	0.21307	-0.1052	0.37288	0.6075	0.19849
10	6.1526	6.4197	6.6636	0.17712	6.737	6.9247	7.0835	0.10367	0.3106	0.50496	0.838	0.17124
30	6.1091	6.4099	6.6477	0.18735	6.7379	6.929	7.1021	0.11877	0.2041	0.5191	0.881	0.21473
50	6.1272	6.4167	6.6779	0.18419	6.6898	6.9028	7.2125	0.15365	0.2405	0.48609	0.907	0.20829
100	6.2439	6.4156	6.6353	0.10847	6.5214	6.9162	7.1337	0.19243	0.009	0.5006	0.8268	0.24879

Device Test: 24.18 TIMING|OUT_FALL/OUTH/8/8/0/1000/4.5/500kHz//@OUT_FALL_8V





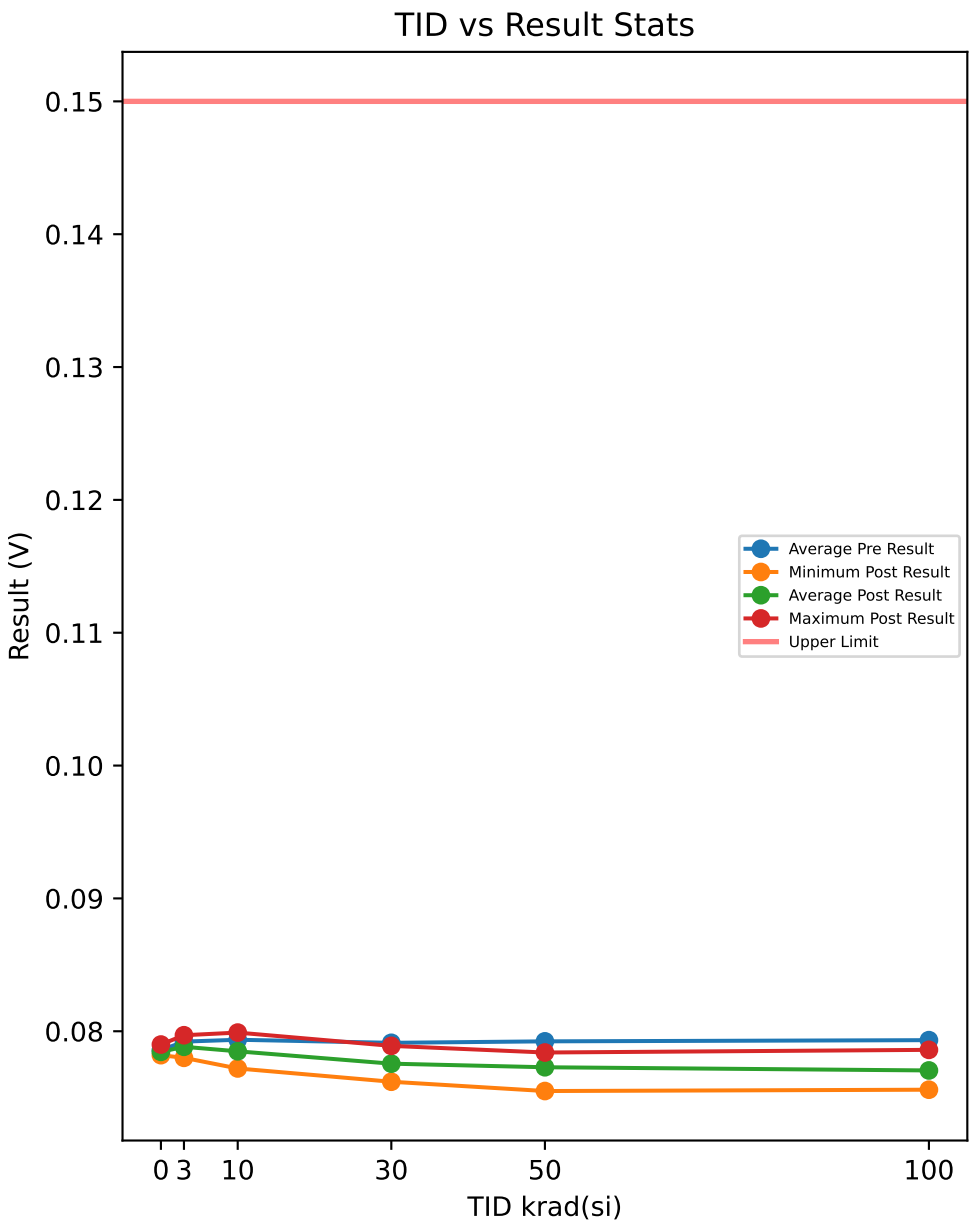
Test Results (Upper Limit = 18.0 (ns))

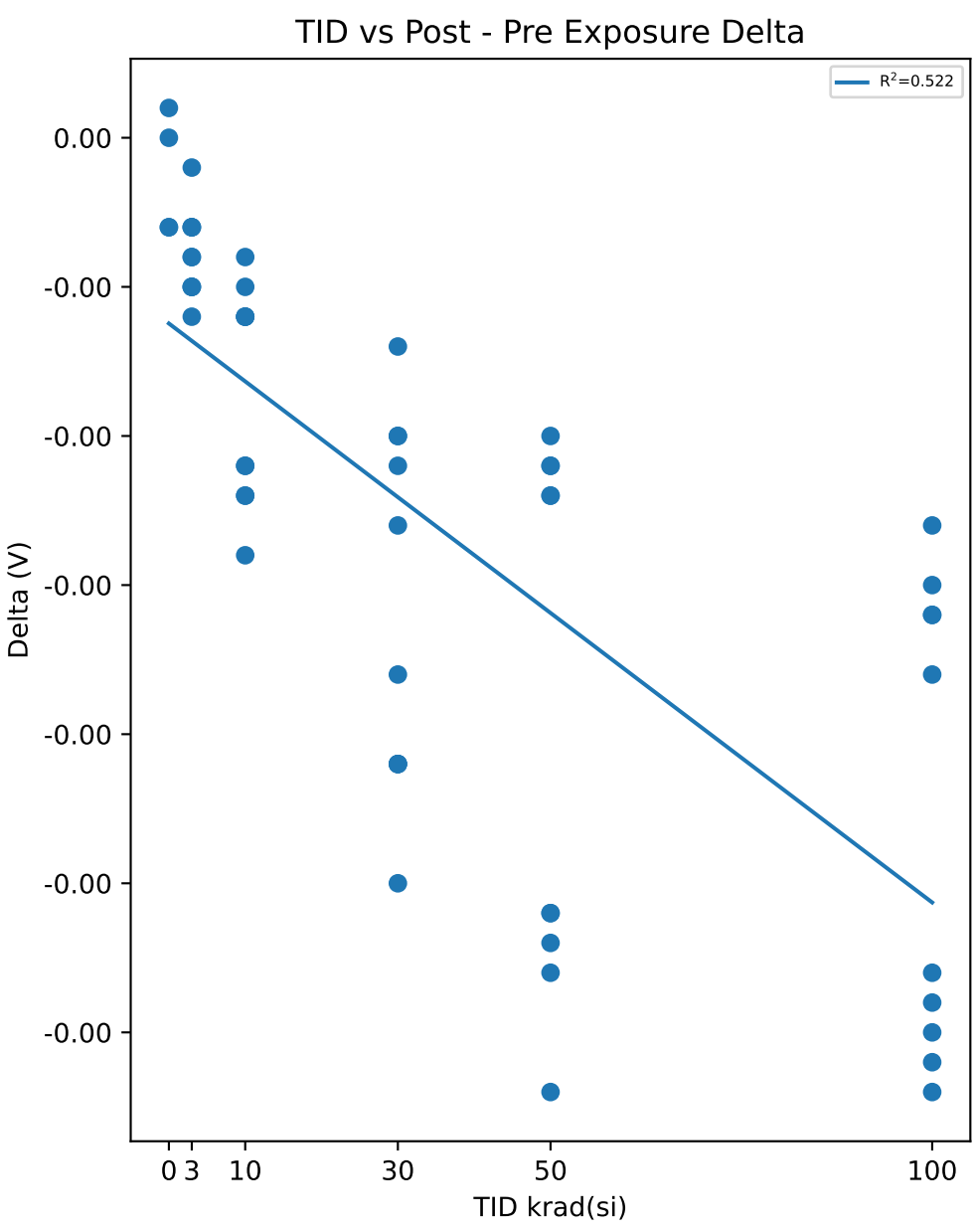
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	6.9841	7.294	0.3099
2	3	HDR BIAS	6.9689	7.3016	0.3327
3	3	HDR BIAS	7.2289	7.3862	0.1573
4	3	HDR BIAS	7.0068	7.5965	0.5897
5	3	HDR BIAS	6.9992	7.3616	0.3624
6	3	HDR UNBIAS	7.2469	7.3025	0.0556
7	3	HDR UNBIAS	7.0063	7.4604	0.4541
8	3	HDR UNBIAS	6.9642	7.5832	0.619
9	3	HDR UNBIAS	7.3089	7.4208	0.1119
10	3	HDR UNBIAS	6.9351	7.3161	0.381
11	10	HDR BIAS	7.0308	7.3584	0.3276
12	10	HDR BIAS	7.1923	7.5395	0.3472
13	10	HDR BIAS	6.9486	7.1083	0.1597
14	10	HDR BIAS	7.0194	7.321	0.3016
15	10	HDR BIAS	7.2591	7.4255	0.1664
16	10	HDR UNBIAS	6.9878	7.5917	0.6039
17	10	HDR UNBIAS	7.058	7.3984	0.3404
18	10	HDR UNBIAS	7.2074	7.3344	0.127
19	10	HDR UNBIAS	6.9986	7.369	0.3704
20	10	HDR UNBIAS	6.9209	7.5717	0.6508
31	30	HDR BIAS	6.9666	7.3487	0.3821
32	30	HDR BIAS	7.0056	7.5624	0.5568
33	30	HDR BIAS	7.2029	7.2909	0.088
34	30	HDR BIAS	7.012	7.304	0.292
35	30	HDR BIAS	7.0379	7.3582	0.3203
36	30	HDR UNBIAS	7.1503	7.5665	0.4162
37	30	HDR UNBIAS	7.0375	7.3468	0.3093
38	30	HDR UNBIAS	6.995	7.3008	0.3058
39	30	HDR UNBIAS	7.1675	7.3699	0.2024
40	30	HDR UNBIAS	7.0874	7.6917	0.6043
41	50	HDR BIAS	7.0665	7.3057	0.2392
42	50	HDR BIAS	7.1923	7.3556	0.1633
43	50	HDR BIAS	7.0077	7.3924	0.3847
44	50	HDR BIAS	7.0331	7.5973	0.5642
45	50	HDR BIAS	7.1956	7.269	0.0734
46	50	HDR UNBIAS	7.0107	7.3266	0.3159
47	50	HDR UNBIAS	7.0086	7.3592	0.3506
48	50	HDR UNBIAS	7.1658	7.5463	0.3805
49	50	HDR UNBIAS	6.9834	7.389	0.4056
50	50	HDR UNBIAS	7.0055	7.3325	0.327
51	100	HDR BIAS	7.2065	7.3607	0.1542
52	100	HDR BIAS	6.9864	7.5999	0.6135
53	100	HDR BIAS	7.0211	7.311	0.2899
54	100	HDR BIAS	7.1895	7.2971	0.1076
55	100	HDR BIAS	7.0248	7.3437	0.3189
56	100	HDR UNBIAS	6.9982	7.6012	0.603
57	100	HDR UNBIAS	7.2046	7.343	0.1384
58	100	HDR UNBIAS	6.9547	7.3154	0.3607
59	100	HDR UNBIAS	7.0745	7.3678	0.2933
60	100	HDR UNBIAS	7.1624	7.6289	0.4665
91	0	CORRELATION	7.0199	7.3515	0.3316
92	0	CORRELATION	7.1803	7.3053	0.125
93	0	CORRELATION	6.9525	7.3453	0.3928
94	0	CORRELATION	7.0185	7.6093	0.5908

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9525	7.0428	7.1803	0.096911	7.3053	7.4028	7.6093	0.13915	0.125	0.36005	0.5908	0.19181
3	6.9351	7.0649	7.3089	0.13881	7.294	7.4023	7.5965	0.1132	0.0556	0.33736	0.619	0.18932
10	6.9209	7.0623	7.2591	0.11646	7.1083	7.4018	7.5917	0.14323	0.127	0.3395	0.6508	0.17539
30	6.9666	7.0663	7.2029	0.081442	7.2909	7.414	7.6917	0.13996	0.088	0.34772	0.6043	0.15315
50	6.9834	7.0669	7.1956	0.084338	7.269	7.3874	7.5973	0.10464	0.0734	0.32044	0.5642	0.13651
100	6.9547	7.0823	7.2065	0.098857	7.2971	7.4169	7.6289	0.13526	0.1076	0.3346	0.6135	0.18087

Device Test: 24.5 LEVEL|LOW_LEVEL/OUTL/12/12/0/0/5/500kHz//@OUT_VOL





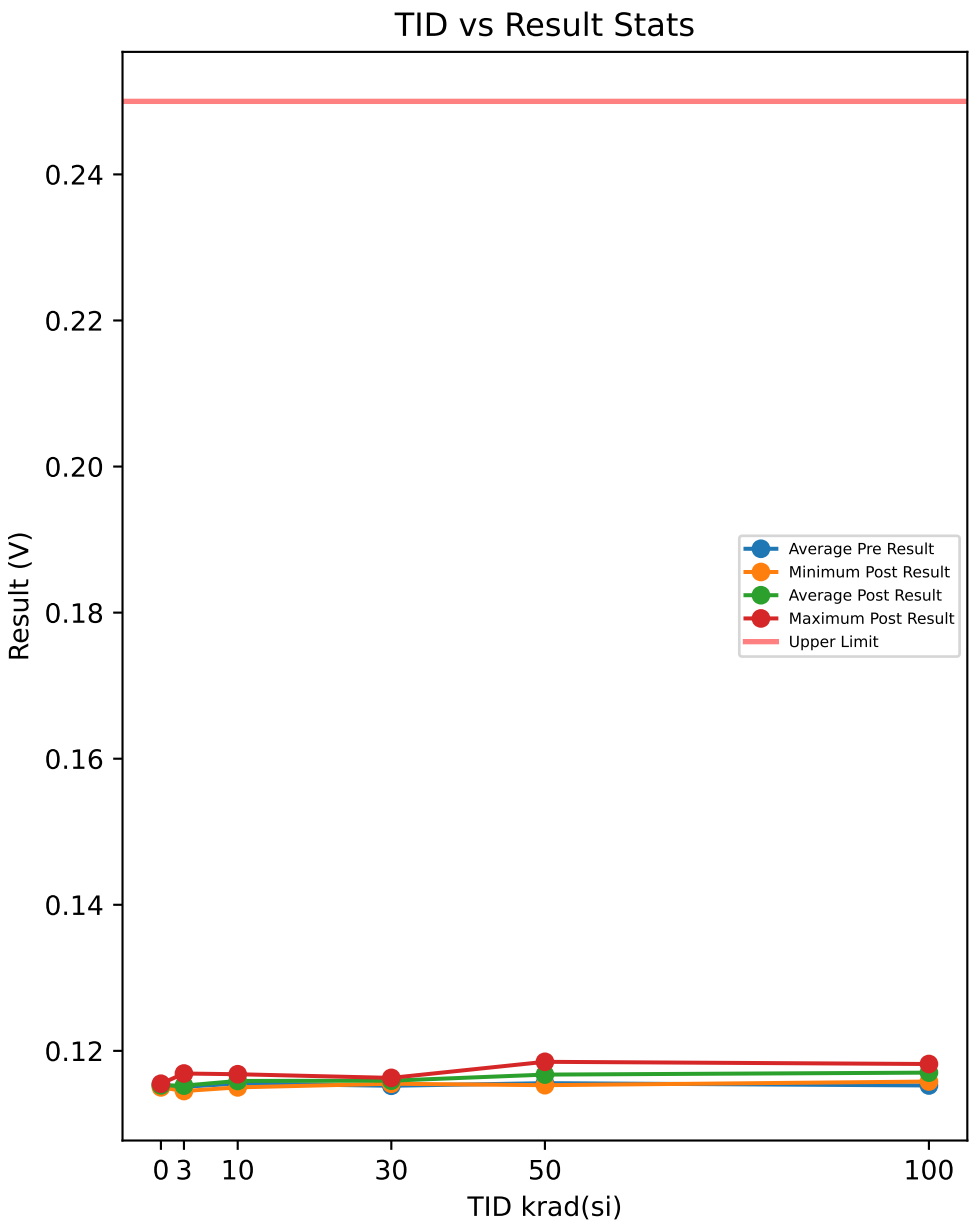
Test Results (Upper Limit = 0.15 (V))

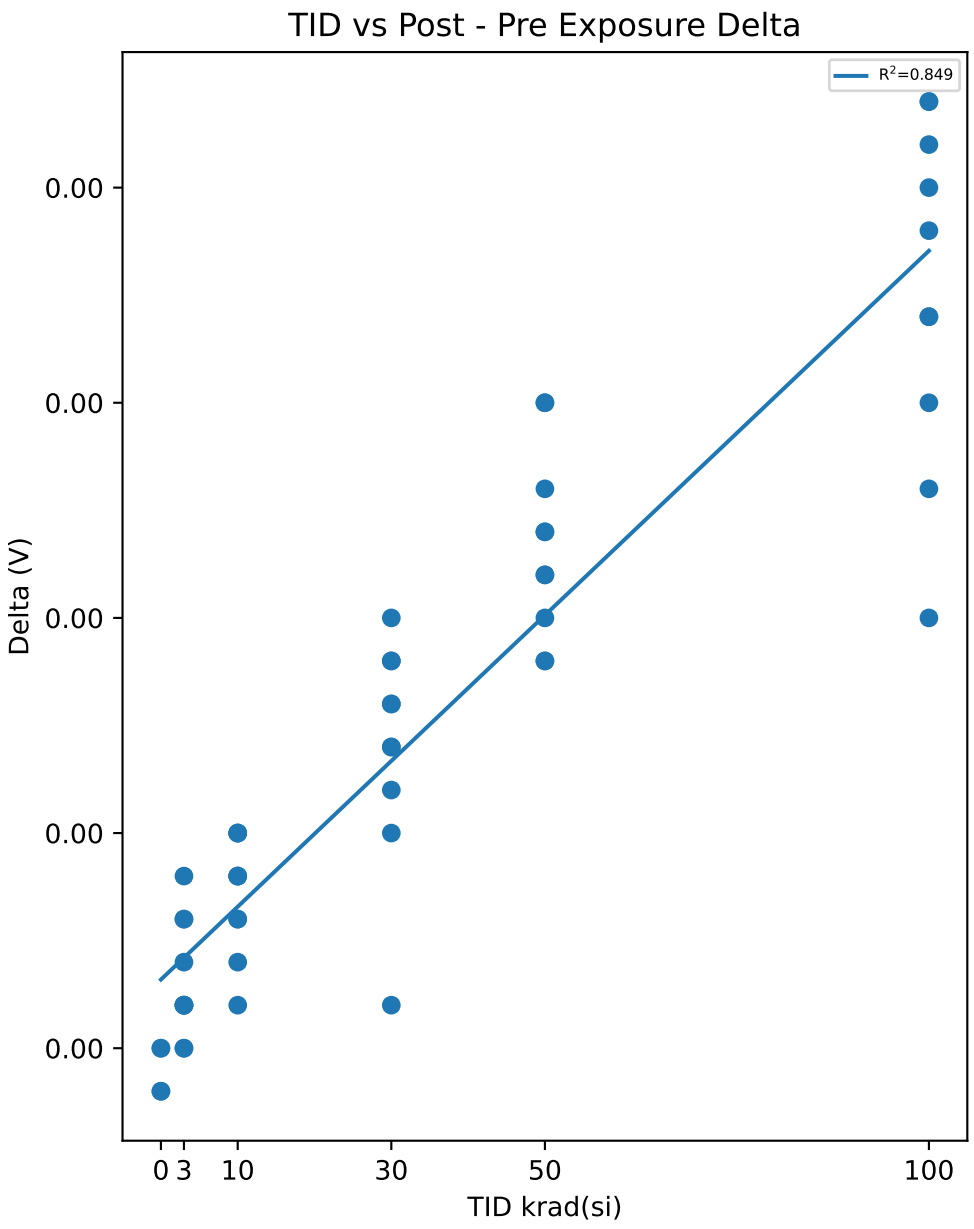
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.0791	0.0786	-0.0005
2	3	HDR BIAS	0.0785	0.078	-0.0005
3	3	HDR BIAS	0.0796	0.0792	-0.0004
4	3	HDR BIAS	0.0792	0.0787	-0.0005
5	3	HDR BIAS	0.0791	0.0785	-0.0006
6	3	HDR UNBIAS	0.0789	0.0788	-0.0001
7	3	HDR UNBIAS	0.0797	0.0794	-0.0003
8	3	HDR UNBIAS	0.079	0.0786	-0.0004
9	3	HDR UNBIAS	0.08	0.0797	-0.0003
10	3	HDR UNBIAS	0.0791	0.0788	-0.0003
11	10	HDR BIAS	0.0793	0.0781	-0.0012
12	10	HDR BIAS	0.0791	0.0779	-0.0012
13	10	HDR BIAS	0.0783	0.0772	-0.0011
14	10	HDR BIAS	0.0796	0.0785	-0.0011
15	10	HDR BIAS	0.0802	0.0788	-0.0014
16	10	HDR UNBIAS	0.0795	0.0789	-0.0006
17	10	HDR UNBIAS	0.0804	0.0799	-0.0005
18	10	HDR UNBIAS	0.079	0.0784	-0.0006
19	10	HDR UNBIAS	0.0798	0.0792	-0.0006
20	10	HDR UNBIAS	0.0784	0.078	-0.0004
31	30	HDR BIAS	0.079	0.0765	-0.0025
32	30	HDR BIAS	0.0783	0.0762	-0.0021
33	30	HDR BIAS	0.0784	0.0763	-0.0021
34	30	HDR BIAS	0.0797	0.0776	-0.0021
35	30	HDR BIAS	0.0791	0.0773	-0.0018
36	30	HDR UNBIAS	0.079	0.078	-0.001
37	30	HDR UNBIAS	0.08	0.0787	-0.0013
38	30	HDR UNBIAS	0.0789	0.0782	-0.0007
39	30	HDR UNBIAS	0.079	0.0779	-0.0011
40	30	HDR UNBIAS	0.0799	0.0789	-0.001
41	50	HDR BIAS	0.0794	0.0766	-0.0028
42	50	HDR BIAS	0.0794	0.0762	-0.0032
43	50	HDR BIAS	0.0802	0.0775	-0.0027
44	50	HDR BIAS	0.0793	0.0767	-0.0026
45	50	HDR BIAS	0.0781	0.0755	-0.0026
46	50	HDR UNBIAS	0.0793	0.0781	-0.0012
47	50	HDR UNBIAS	0.0794	0.0784	-0.001
48	50	HDR UNBIAS	0.0786	0.0775	-0.0011
49	50	HDR UNBIAS	0.0796	0.0784	-0.0012
50	50	HDR UNBIAS	0.0791	0.078	-0.0011
51	100	HDR BIAS	0.0791	0.0763	-0.0028
52	100	HDR BIAS	0.0795	0.0766	-0.0029
53	100	HDR BIAS	0.0787	0.0756	-0.0031
54	100	HDR BIAS	0.0793	0.0763	-0.003
55	100	HDR BIAS	0.0789	0.0757	-0.0032
56	100	HDR UNBIAS	0.0793	0.0778	-0.0015
57	100	HDR UNBIAS	0.0794	0.0778	-0.0016
58	100	HDR UNBIAS	0.0794	0.0781	-0.0013
59	100	HDR UNBIAS	0.0793	0.0777	-0.0016
60	100	HDR UNBIAS	0.0804	0.0786	-0.0018
91	0	CORRELATION	0.0785	0.0782	-0.0003
92	0	CORRELATION	0.0782	0.0782	0
93	0	CORRELATION	0.0783	0.0784	0.0001
94	0	CORRELATION	0.0793	0.079	-0.0003

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0782	0.078575	0.0793	0.00049917	0.0782	0.07845	0.079	0.00037859	-0.0003	-0.000125	0.0001	0.00020616
3	0.0785	0.07922	0.08	0.0004341	0.078	0.07883	0.0797	0.00048774	-0.0006	-0.00039	-0.0001	0.00014491
10	0.0783	0.07936	0.0804	0.00069154	0.0772	0.07849	0.0799	0.00075785	-0.0014	-0.00087	-0.0004	0.00036225
30	0.0783	0.07913	0.08	0.00057745	0.0762	0.07756	0.0789	0.00096862	-0.0025	-0.00157	-0.0007	0.00062013
50	0.0781	0.07924	0.0802	0.00056411	0.0755	0.07729	0.0784	0.00099605	-0.0032	-0.00195	-0.001	0.00089225
100	0.0787	0.07933	0.0804	0.00044981	0.0756	0.07705	0.0786	0.00107	-0.0032	-0.00228	-0.0013	0.00077574

Device Test: 24.6 LEVEL|HIGH_LEVEL/OUTH/12/12/0/0/5/500kHz//@OUT_VOH





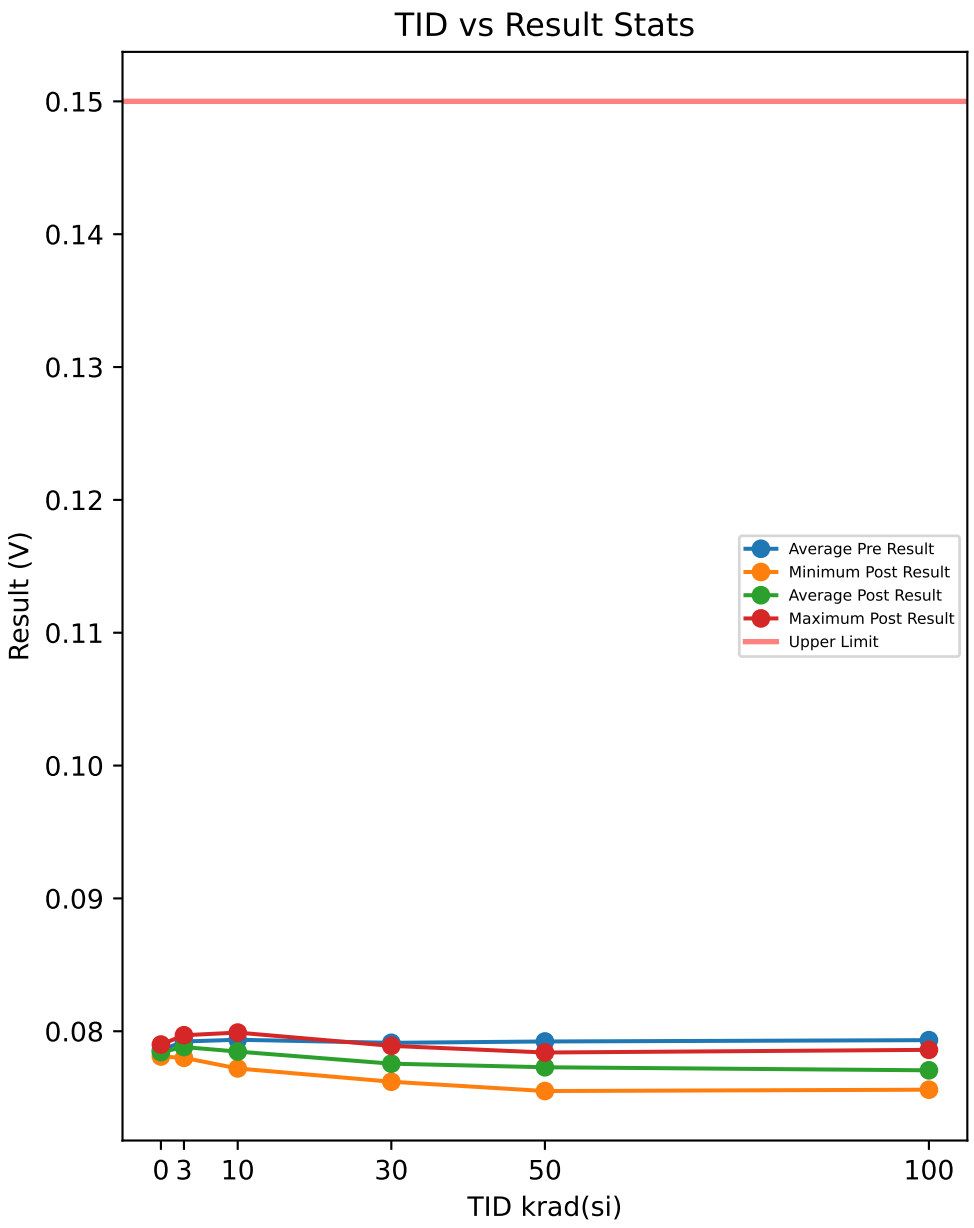
Test Results (Upper Limit = 0.25 (V))

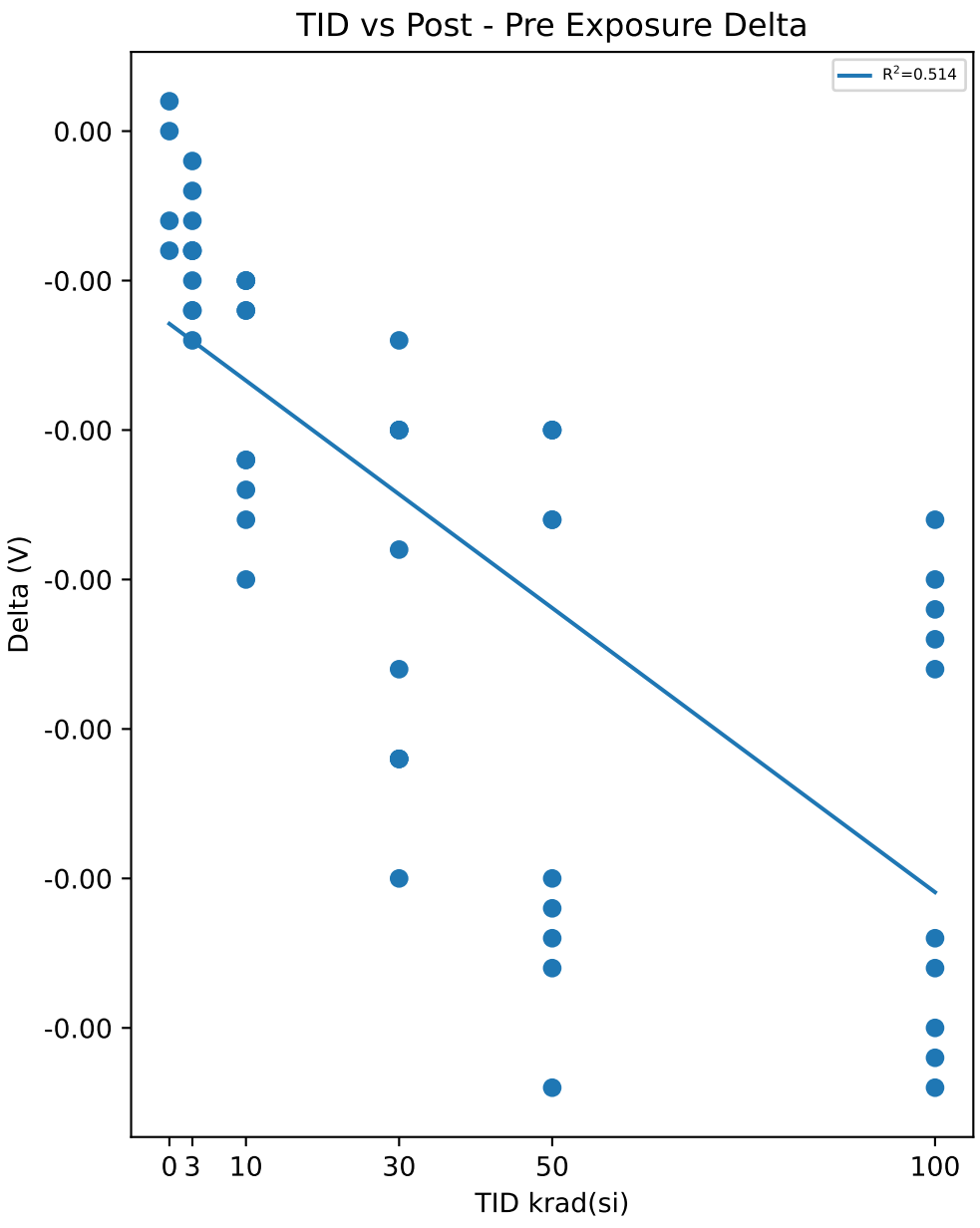
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.1151	0.1151	0
2	3	HDR BIAS	0.1147	0.1148	0.0001
3	3	HDR BIAS	0.1165	0.1169	0.0004
4	3	HDR BIAS	0.1145	0.1146	0.0001
5	3	HDR BIAS	0.1144	0.1145	0.0001
6	3	HDR UNBIAS	0.1157	0.116	0.0003
7	3	HDR UNBIAS	0.1143	0.1145	0.0002
8	3	HDR UNBIAS	0.1155	0.1155	0
9	3	HDR UNBIAS	0.1154	0.1157	0.0003
10	3	HDR UNBIAS	0.1147	0.1148	0.0001
11	10	HDR BIAS	0.1145	0.115	0.0005
12	10	HDR BIAS	0.1161	0.1165	0.0004
13	10	HDR BIAS	0.1151	0.1154	0.0003
14	10	HDR BIAS	0.1161	0.1166	0.0005
15	10	HDR BIAS	0.1152	0.1156	0.0004
16	10	HDR UNBIAS	0.1154	0.1155	0.0001
17	10	HDR UNBIAS	0.1164	0.1168	0.0004
18	10	HDR UNBIAS	0.1153	0.1158	0.0005
19	10	HDR UNBIAS	0.1161	0.1164	0.0003
20	10	HDR UNBIAS	0.115	0.1152	0.0002
31	30	HDR BIAS	0.1151	0.1156	0.0005
32	30	HDR BIAS	0.1153	0.1162	0.0009
33	30	HDR BIAS	0.1155	0.1163	0.0008
34	30	HDR BIAS	0.1153	0.1162	0.0009
35	30	HDR BIAS	0.115	0.116	0.001
36	30	HDR UNBIAS	0.1154	0.1162	0.0008
37	30	HDR UNBIAS	0.1155	0.1156	0.0001
38	30	HDR UNBIAS	0.1153	0.1159	0.0006
39	30	HDR UNBIAS	0.1148	0.1155	0.0007
40	30	HDR UNBIAS	0.115	0.1157	0.0007
41	50	HDR BIAS	0.1142	0.1153	0.0011
42	50	HDR BIAS	0.1147	0.1162	0.0015
43	50	HDR BIAS	0.1173	0.1185	0.0012
44	50	HDR BIAS	0.1152	0.1164	0.0012
45	50	HDR BIAS	0.1157	0.1172	0.0015
46	50	HDR UNBIAS	0.1159	0.1168	0.0009
47	50	HDR UNBIAS	0.1152	0.1161	0.0009
48	50	HDR UNBIAS	0.1161	0.1171	0.001
49	50	HDR UNBIAS	0.1169	0.118	0.0011
50	50	HDR UNBIAS	0.1146	0.1159	0.0013
51	100	HDR BIAS	0.116	0.1182	0.0022
52	100	HDR BIAS	0.1147	0.1164	0.0017
53	100	HDR BIAS	0.1162	0.1181	0.0019
54	100	HDR BIAS	0.1157	0.1178	0.0021
55	100	HDR BIAS	0.1148	0.117	0.0022
56	100	HDR UNBIAS	0.1161	0.1178	0.0017
57	100	HDR UNBIAS	0.1145	0.116	0.0015
58	100	HDR UNBIAS	0.1148	0.1158	0.001
59	100	HDR UNBIAS	0.1152	0.1172	0.002
60	100	HDR UNBIAS	0.1146	0.1159	0.0013
91	0	CORRELATION	0.1155	0.1154	-0.0001
92	0	CORRELATION	0.1151	0.115	-0.0001
93	0	CORRELATION	0.1152	0.1152	0
94	0	CORRELATION	0.1155	0.1155	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1151	0.11532	0.1155	0.00020616	0.115	0.11528	0.1155	0.00022174	-0.0001	-5e-05	0	5.7735e-05
3	0.1143	0.11508	0.1165	0.0006973	0.1145	0.11524	0.1169	0.00078344	0	0.00016	0.0004	0.00013499
10	0.1145	0.11552	0.1164	0.00061788	0.115	0.11588	0.1168	0.00064256	0.0001	0.00036	0.0005	0.00013499
30	0.1148	0.11522	0.1155	0.00023476	0.1155	0.11592	0.1163	0.00030111	0.0001	0.0007	0.001	0.0002582
50	0.1142	0.11558	0.1173	0.0010009	0.1153	0.11675	0.1185	0.00097895	0.0009	0.00117	0.0015	0.00021628
100	0.1145	0.11526	0.1162	0.00067363	0.1158	0.11702	0.1182	0.00094139	0.001	0.00176	0.0022	0.00040056

Device Test: 24.7 LEVEL|LOW_LEVEL/OUTL/14/14/0/0/5/500kHz//@OUT_VOL





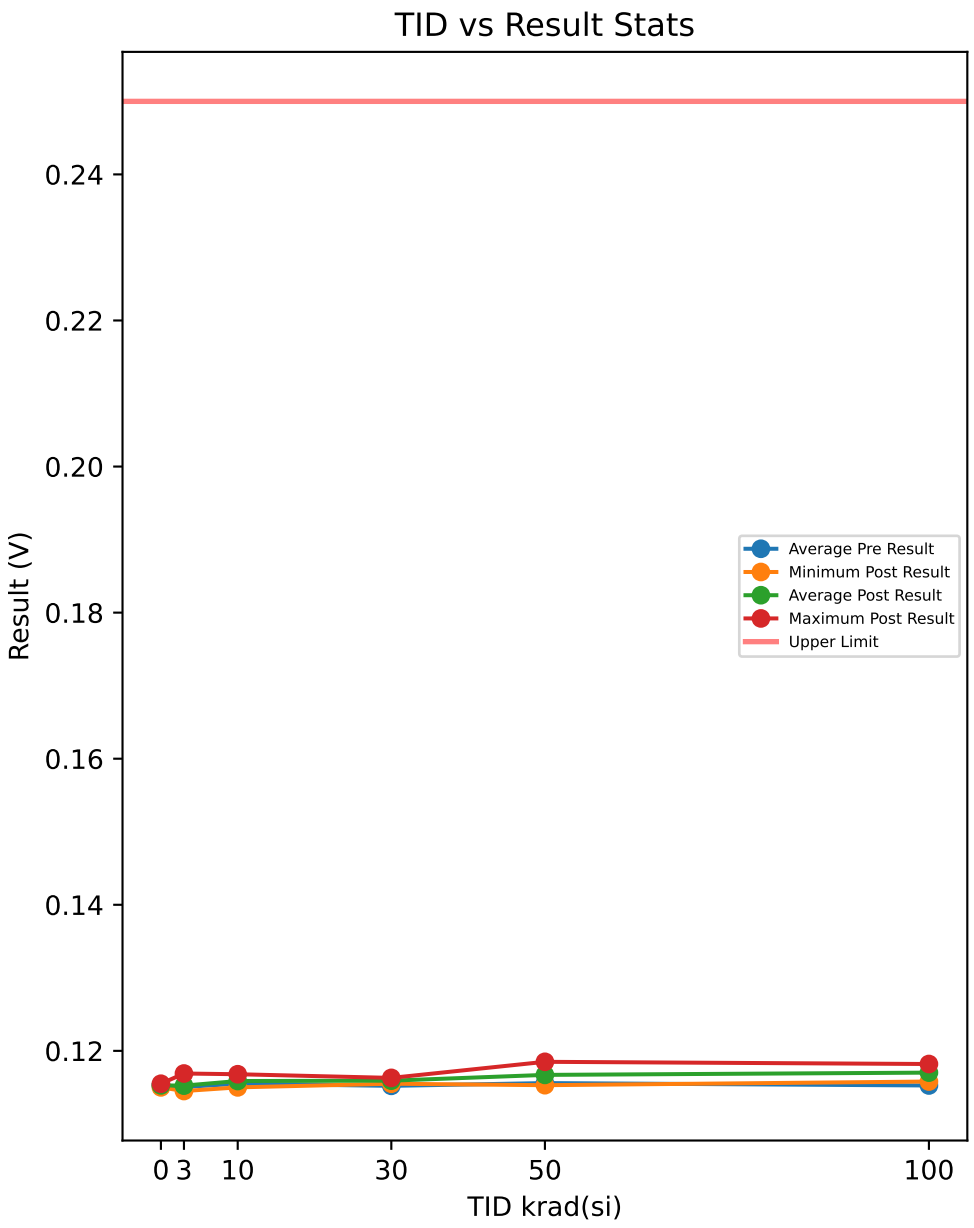
Test Results (Upper Limit = 0.15 (V))

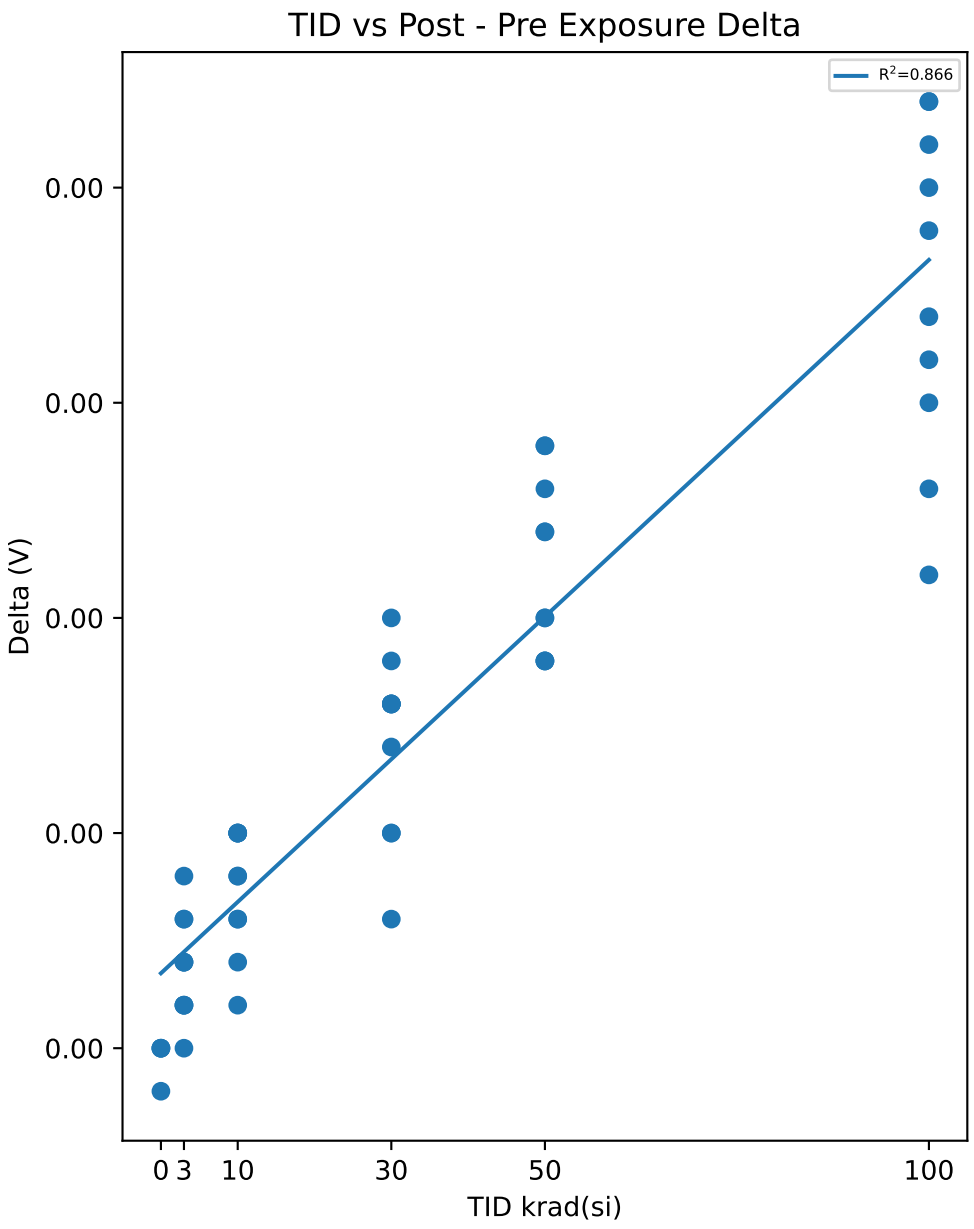
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.0792	0.0786	-0.0006
2	3	HDR BIAS	0.0785	0.078	-0.0005
3	3	HDR BIAS	0.0796	0.0792	-0.0004
4	3	HDR BIAS	0.0792	0.0786	-0.0006
5	3	HDR BIAS	0.0791	0.0784	-0.0007
6	3	HDR UNBIAS	0.0789	0.0788	-0.0001
7	3	HDR UNBIAS	0.0798	0.0794	-0.0004
8	3	HDR UNBIAS	0.079	0.0786	-0.0004
9	3	HDR UNBIAS	0.0799	0.0797	-0.0002
10	3	HDR UNBIAS	0.0791	0.0788	-0.0003
11	10	HDR BIAS	0.0793	0.078	-0.0013
12	10	HDR BIAS	0.0791	0.0779	-0.0012
13	10	HDR BIAS	0.0783	0.0772	-0.0011
14	10	HDR BIAS	0.0796	0.0785	-0.0011
15	10	HDR BIAS	0.0802	0.0787	-0.0015
16	10	HDR UNBIAS	0.0795	0.0789	-0.0006
17	10	HDR UNBIAS	0.0804	0.0799	-0.0005
18	10	HDR UNBIAS	0.079	0.0785	-0.0005
19	10	HDR UNBIAS	0.0798	0.0792	-0.0006
20	10	HDR UNBIAS	0.0784	0.0779	-0.0005
31	30	HDR BIAS	0.079	0.0765	-0.0025
32	30	HDR BIAS	0.0783	0.0762	-0.0021
33	30	HDR BIAS	0.0784	0.0763	-0.0021
34	30	HDR BIAS	0.0797	0.0776	-0.0021
35	30	HDR BIAS	0.0791	0.0773	-0.0018
36	30	HDR UNBIAS	0.079	0.078	-0.001
37	30	HDR UNBIAS	0.08	0.0786	-0.0014
38	30	HDR UNBIAS	0.0789	0.0782	-0.0007
39	30	HDR UNBIAS	0.079	0.078	-0.001
40	30	HDR UNBIAS	0.0799	0.0789	-0.001
41	50	HDR BIAS	0.0794	0.0766	-0.0028
42	50	HDR BIAS	0.0794	0.0762	-0.0032
43	50	HDR BIAS	0.0802	0.0775	-0.0027
44	50	HDR BIAS	0.0792	0.0767	-0.0025
45	50	HDR BIAS	0.0781	0.0755	-0.0026
46	50	HDR UNBIAS	0.0793	0.078	-0.0013
47	50	HDR UNBIAS	0.0794	0.0784	-0.001
48	50	HDR UNBIAS	0.0786	0.0776	-0.001
49	50	HDR UNBIAS	0.0797	0.0784	-0.0013
50	50	HDR UNBIAS	0.079	0.078	-0.001
51	100	HDR BIAS	0.0791	0.0763	-0.0028
52	100	HDR BIAS	0.0794	0.0767	-0.0027
53	100	HDR BIAS	0.0787	0.0756	-0.0031
54	100	HDR BIAS	0.0793	0.0763	-0.003
55	100	HDR BIAS	0.0789	0.0757	-0.0032
56	100	HDR UNBIAS	0.0793	0.0778	-0.0015
57	100	HDR UNBIAS	0.0794	0.0778	-0.0016
58	100	HDR UNBIAS	0.0794	0.0781	-0.0013
59	100	HDR UNBIAS	0.0794	0.0777	-0.0017
60	100	HDR UNBIAS	0.0804	0.0786	-0.0018
91	0	CORRELATION	0.0785	0.0781	-0.0004
92	0	CORRELATION	0.0782	0.0782	0
93	0	CORRELATION	0.0783	0.0784	0.0001
94	0	CORRELATION	0.0793	0.079	-0.0003

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0782	0.078575	0.0793	0.00049917	0.0781	0.078425	0.079	0.00040311	-0.0004	-0.00015	0.0001	0.00023805
3	0.0785	0.07923	0.0799	0.00042701	0.078	0.07881	0.0797	0.00049989	-0.0007	-0.00042	-0.0001	0.00018738
10	0.0783	0.07936	0.0804	0.00069154	0.0772	0.07847	0.0799	0.00076746	-0.0015	-0.00089	-0.0005	0.00038715
30	0.0783	0.07913	0.08	0.00057745	0.0762	0.07756	0.0789	0.00096056	-0.0025	-0.00157	-0.0007	0.00062548
50	0.0781	0.07923	0.0802	0.00057552	0.0755	0.07729	0.0784	0.00099045	-0.0032	-0.00194	-0.001	0.00088969
100	0.0787	0.07933	0.0804	0.00044734	0.0756	0.07706	0.0786	0.0010658	-0.0032	-0.00227	-0.0013	0.00075137

Device Test: 24.8 LEVEL|HIGH_LEVEL/OUTH/14/14/0/0/5/500kHz//@OUT_VOH





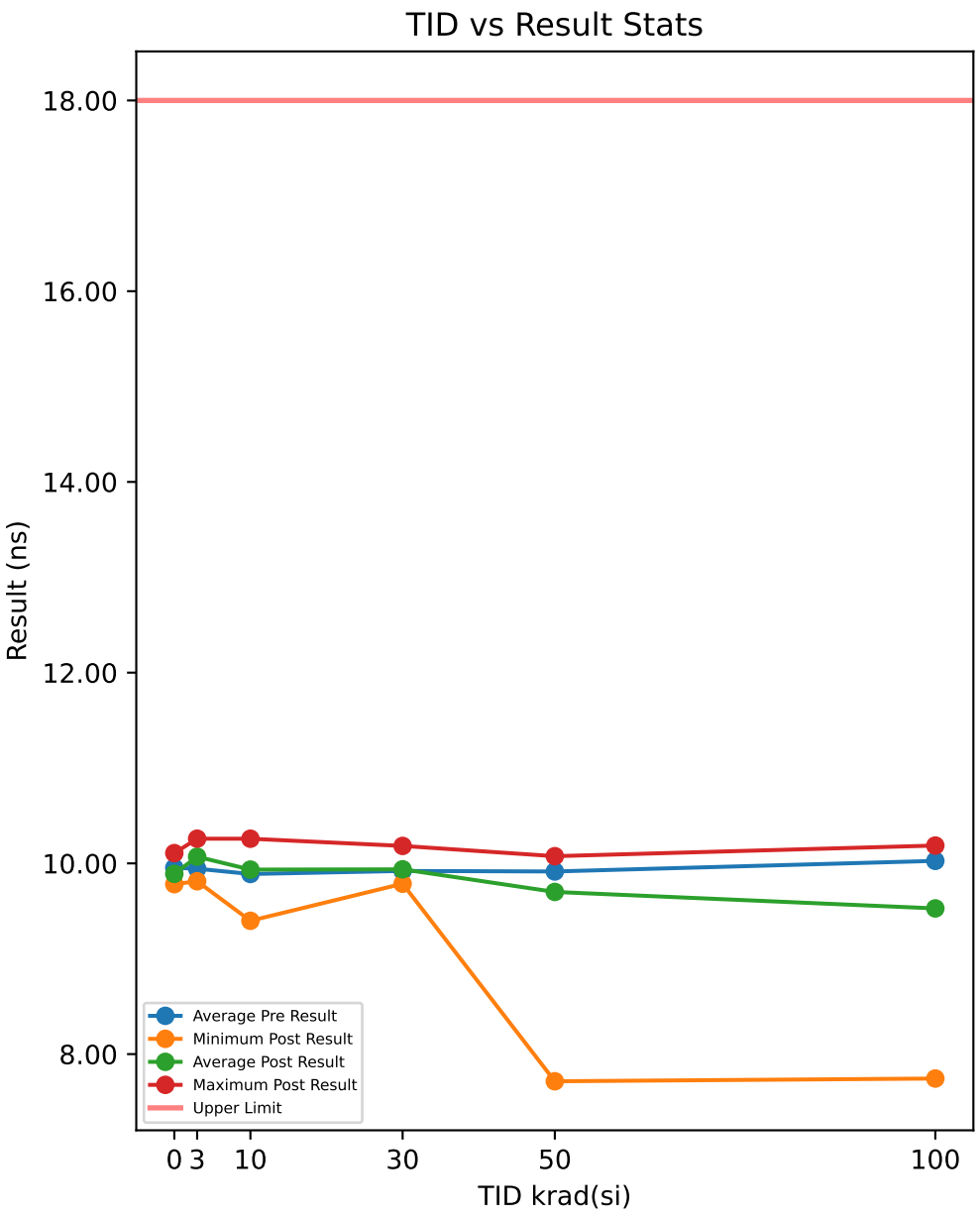
Test Results (Upper Limit = 0.25 (V))

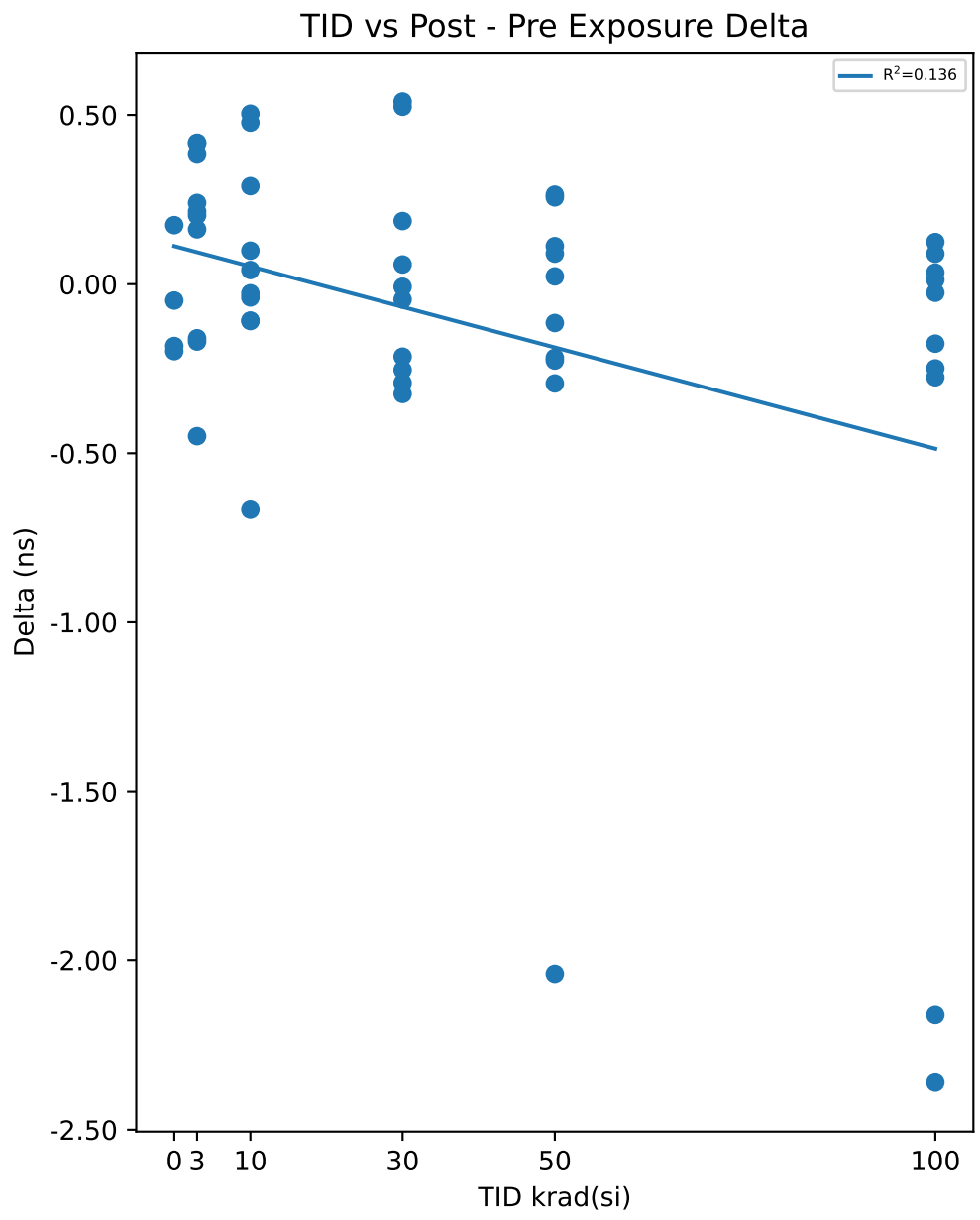
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	0.1151	0.1152	0.0001
2	3	HDR BIAS	0.1147	0.1148	0.0001
3	3	HDR BIAS	0.1165	0.1169	0.0004
4	3	HDR BIAS	0.1144	0.1146	0.0002
5	3	HDR BIAS	0.1143	0.1145	0.0002
6	3	HDR UNBIAS	0.1157	0.116	0.0003
7	3	HDR UNBIAS	0.1143	0.1145	0.0002
8	3	HDR UNBIAS	0.1155	0.1155	0
9	3	HDR UNBIAS	0.1153	0.1156	0.0003
10	3	HDR UNBIAS	0.1147	0.1148	0.0001
11	10	HDR BIAS	0.1146	0.115	0.0004
12	10	HDR BIAS	0.1161	0.1165	0.0004
13	10	HDR BIAS	0.1151	0.1153	0.0002
14	10	HDR BIAS	0.116	0.1165	0.0005
15	10	HDR BIAS	0.1152	0.1157	0.0005
16	10	HDR UNBIAS	0.1154	0.1155	0.0001
17	10	HDR UNBIAS	0.1163	0.1168	0.0005
18	10	HDR UNBIAS	0.1153	0.1158	0.0005
19	10	HDR UNBIAS	0.1161	0.1164	0.0003
20	10	HDR UNBIAS	0.1149	0.1152	0.0003
31	30	HDR BIAS	0.1152	0.1157	0.0005
32	30	HDR BIAS	0.1153	0.1162	0.0009
33	30	HDR BIAS	0.1155	0.1163	0.0008
34	30	HDR BIAS	0.1153	0.1161	0.0008
35	30	HDR BIAS	0.115	0.116	0.001
36	30	HDR UNBIAS	0.1154	0.1162	0.0008
37	30	HDR UNBIAS	0.1154	0.1157	0.0003
38	30	HDR UNBIAS	0.1153	0.1158	0.0005
39	30	HDR UNBIAS	0.1147	0.1155	0.0008
40	30	HDR UNBIAS	0.115	0.1157	0.0007
41	50	HDR BIAS	0.1143	0.1153	0.001
42	50	HDR BIAS	0.1148	0.1162	0.0014
43	50	HDR BIAS	0.1173	0.1185	0.0012
44	50	HDR BIAS	0.1151	0.1163	0.0012
45	50	HDR BIAS	0.1157	0.1171	0.0014
46	50	HDR UNBIAS	0.1159	0.1168	0.0009
47	50	HDR UNBIAS	0.1152	0.1161	0.0009
48	50	HDR UNBIAS	0.1161	0.117	0.0009
49	50	HDR UNBIAS	0.1169	0.1179	0.001
50	50	HDR UNBIAS	0.1146	0.1159	0.0013
51	100	HDR BIAS	0.1161	0.1182	0.0021
52	100	HDR BIAS	0.1148	0.1165	0.0017
53	100	HDR BIAS	0.1161	0.118	0.0019
54	100	HDR BIAS	0.1156	0.1178	0.0022
55	100	HDR BIAS	0.1148	0.117	0.0022
56	100	HDR UNBIAS	0.1162	0.1178	0.0016
57	100	HDR UNBIAS	0.1145	0.116	0.0015
58	100	HDR UNBIAS	0.1147	0.1158	0.0011
59	100	HDR UNBIAS	0.1152	0.1172	0.002
60	100	HDR UNBIAS	0.1146	0.1159	0.0013
91	0	CORRELATION	0.1155	0.1155	0
92	0	CORRELATION	0.1151	0.115	-0.0001
93	0	CORRELATION	0.1152	0.1152	0
94	0	CORRELATION	0.1154	0.1154	0

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1151	0.1153	0.1155	0.00018257	0.115	0.11528	0.1155	0.00022174	-0.0001	-2.5e-05	0	5e-05
3	0.1143	0.11505	0.1165	0.00071375	0.1145	0.11524	0.1169	0.00077632	0	0.00019	0.0004	0.00011972
10	0.1146	0.1155	0.1163	0.000585	0.115	0.11587	0.1168	0.00063605	0.0001	0.00037	0.0005	0.00014181
30	0.1147	0.11521	0.1155	0.00024244	0.1155	0.11592	0.1163	0.00027406	0.0003	0.00071	0.001	0.00021318
50	0.1143	0.11559	0.1173	0.00098144	0.1153	0.11671	0.1185	0.00096084	0.0009	0.00112	0.0014	0.0002044
100	0.1145	0.11526	0.1162	0.0006802	0.1158	0.11702	0.1182	0.00092232	0.0011	0.00176	0.0022	0.00038355

Device Test: 24.9 TIMING|OUT_RISE/OUTH/12/12/0/1000/5/500kHz//@OUT_RISE_12V





Test Results (Upper Limit = 18.0 (ns))

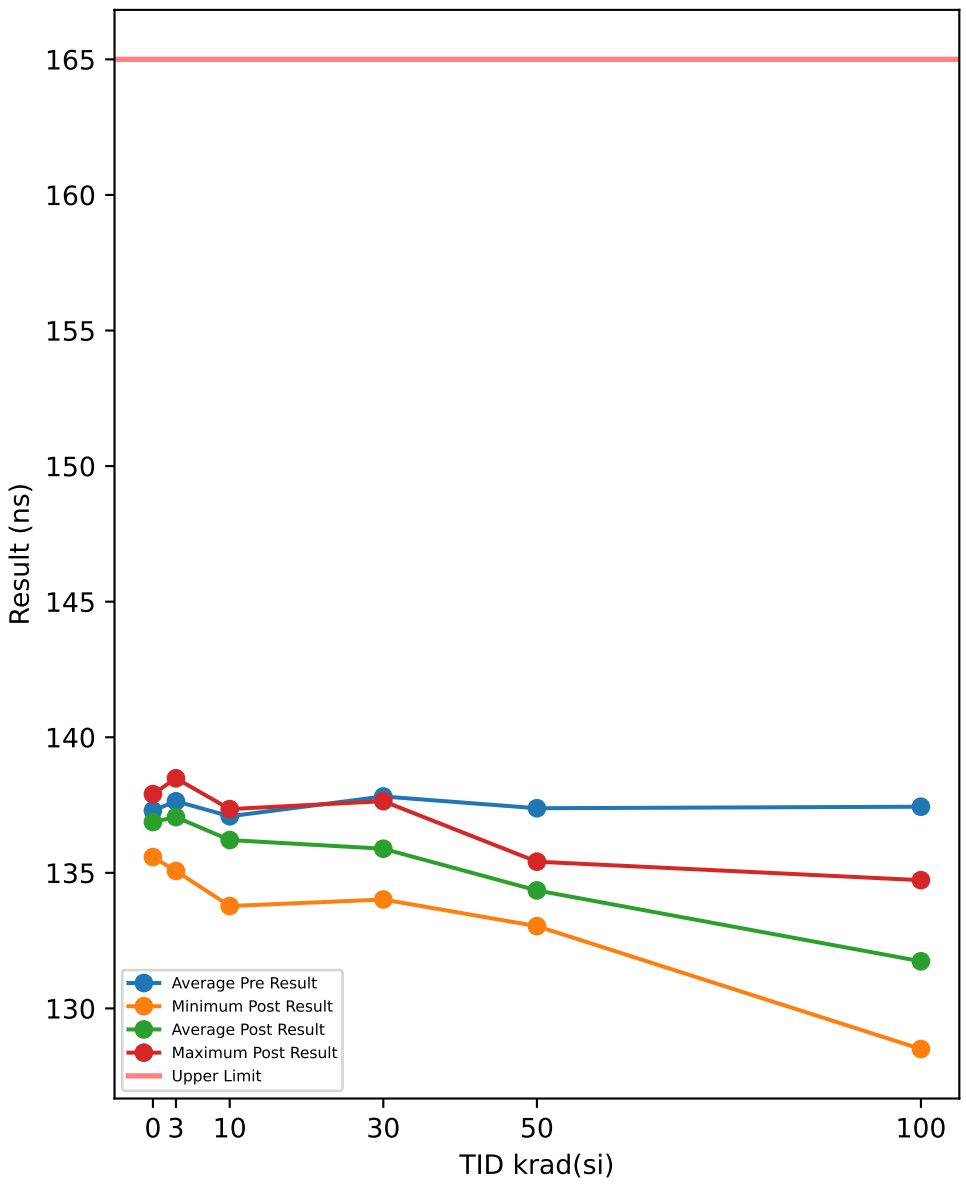
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	9.6718	9.8337	0.1619
2	3	HDR BIAS	9.8715	10.257	0.3858
3	3	HDR BIAS	9.922	10.125	0.2033
4	3	HDR BIAS	10.262	9.8126	-0.4495
5	3	HDR BIAS	9.815	10.232	0.417
6	3	HDR UNBIAS	10.095	9.9256	-0.1697
7	3	HDR UNBIAS	10.152	9.9916	-0.16
8	3	HDR UNBIAS	9.841	10.259	0.4178
9	3	HDR UNBIAS	9.8436	10.058	0.2146
10	3	HDR UNBIAS	9.9672	10.207	0.2399
11	10	HDR BIAS	9.755	9.7967	0.0417
12	10	HDR BIAS	9.6638	10.167	0.5036
13	10	HDR BIAS	10.065	9.3979	-0.6671
14	10	HDR BIAS	9.8482	9.8088	-0.0394
15	10	HDR BIAS	9.923	10.022	0.0989
16	10	HDR UNBIAS	9.6377	9.9273	0.2896
17	10	HDR UNBIAS	10.009	9.9003	-0.1092
18	10	HDR UNBIAS	10.051	9.9432	-0.1076
19	10	HDR UNBIAS	10.153	10.126	-0.0271
20	10	HDR UNBIAS	9.7813	10.259	0.4773
31	30	HDR BIAS	9.6078	10.147	0.5396
32	30	HDR BIAS	9.8787	9.8333	-0.0454
33	30	HDR BIAS	10.137	9.8829	-0.2537
34	30	HDR BIAS	10.027	9.8127	-0.2144
35	30	HDR BIAS	9.8306	10.017	0.1864
36	30	HDR UNBIAS	9.8083	9.8005	-0.0078
37	30	HDR UNBIAS	10.079	9.7866	-0.2919
38	30	HDR UNBIAS	9.6588	10.183	0.5243
39	30	HDR UNBIAS	10.041	10.1	0.0581
40	30	HDR UNBIAS	10.138	9.8129	-0.3247
41	50	HDR BIAS	9.8981	9.6803	-0.2178
42	50	HDR BIAS	10.252	10.026	-0.2259
43	50	HDR BIAS	9.7559	7.7153	-2.0406
44	50	HDR BIAS	10.023	10.046	0.0229
45	50	HDR BIAS	9.8219	9.707	-0.1149
46	50	HDR UNBIAS	10.235	9.9415	-0.2936
47	50	HDR UNBIAS	9.8112	10.075	0.2643
48	50	HDR UNBIAS	9.9297	10.02	0.0901
49	50	HDR UNBIAS	9.6941	9.9505	0.2564
50	50	HDR UNBIAS	9.7311	9.8433	0.1122
51	100	HDR BIAS	10.246	7.8852	-2.3605
52	100	HDR BIAS	10.234	9.9847	-0.2492
53	100	HDR BIAS	10.047	10.171	0.1243
54	100	HDR BIAS	10.047	10.022	-0.0255
55	100	HDR BIAS	10.088	10.101	0.0128
56	100	HDR UNBIAS	10.097	10.187	0.0898
57	100	HDR UNBIAS	9.8612	9.6852	-0.176
58	100	HDR UNBIAS	10.024	9.7489	-0.2754
59	100	HDR UNBIAS	9.9039	7.7439	-2.16
60	100	HDR UNBIAS	9.7142	9.7484	0.0342
91	0	CORRELATION	9.9332	10.107	0.1743
92	0	CORRELATION	9.9896	9.8066	-0.183
93	0	CORRELATION	10.063	9.8646	-0.1981
94	0	CORRELATION	9.8305	9.782	-0.0485

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.8305	9.954	10.063	0.097925	9.782	9.8902	10.107	0.14896	-0.1981	-0.063825	0.1743	0.17241
3	9.6718	9.9441	10.262	0.17791	9.8126	10.07	10.259	0.17258	-0.4495	0.12611	0.4178	0.29171
10	9.6377	9.8887	10.153	0.17873	9.3979	9.9348	10.259	0.2421	-0.6671	0.04607	0.5036	0.33771
30	9.6078	9.9206	10.138	0.19249	9.7866	9.9376	10.183	0.15757	-0.3247	0.01705	0.5396	0.31699
50	9.6941	9.9152	10.252	0.19871	7.7153	9.7005	10.075	0.71102	-2.0406	-0.21469	0.2643	0.67147
100	9.7142	10.026	10.246	0.16352	7.7439	9.5278	10.187	0.92093	-2.3605	-0.49855	0.1243	0.93965

Device Test: 26.3 TIMING|MIN/OUT/12/12/0/0/5/500kHz//@TON_MIN

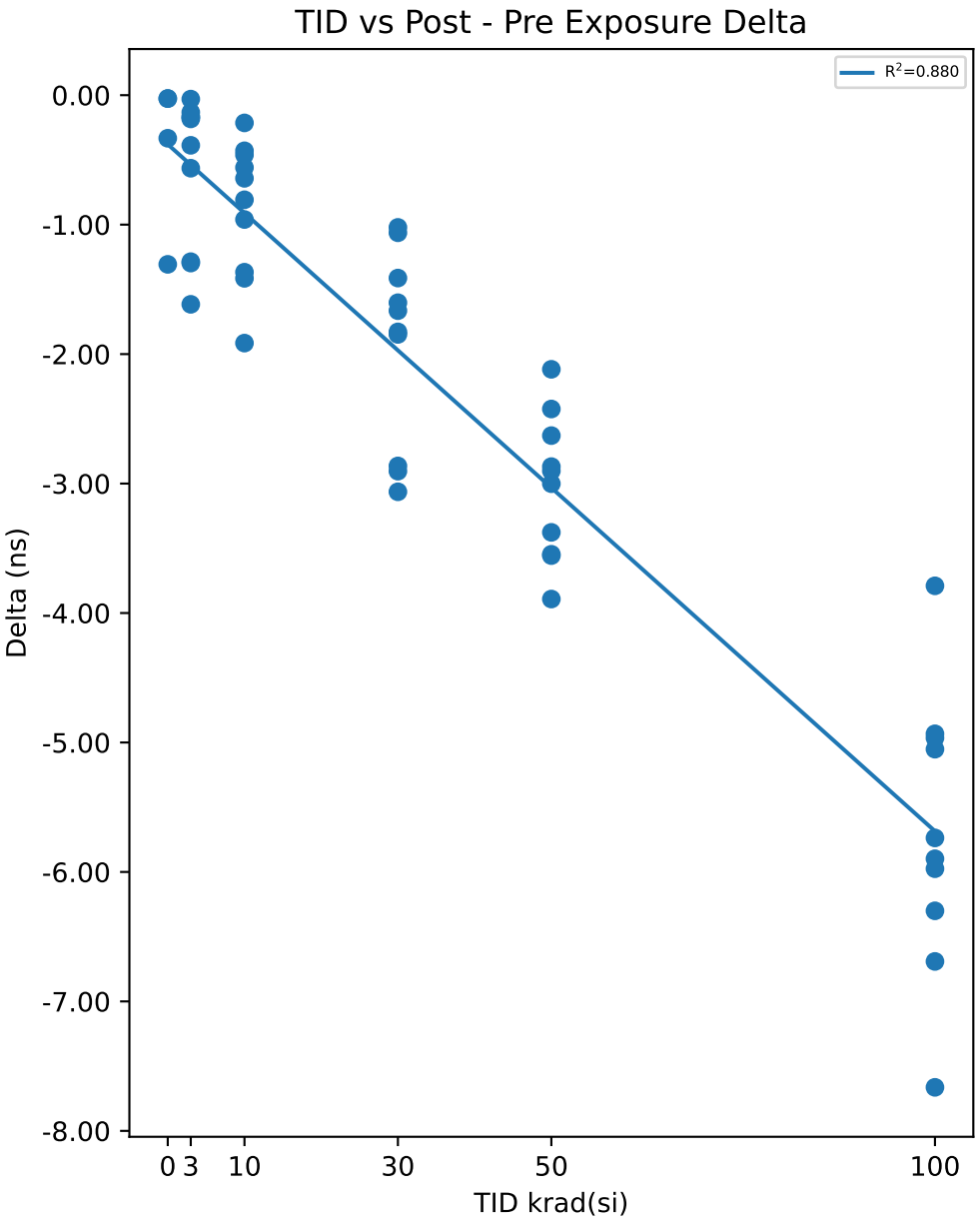
TID vs Result Stats



Test Results (Upper Limit = 165.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	137.88	137.49	-0.3873
2	3	HDR BIAS	137.18	137	-0.1833
3	3	HDR BIAS	139.26	137.97	-1.2861
4	3	HDR BIAS	137.09	137.06	-0.0303
5	3	HDR BIAS	135.63	135.07	-0.5642
6	3	HDR UNBIAS	137.39	136.09	-1.2968
7	3	HDR UNBIAS	136.41	136.28	-0.1327
8	3	HDR UNBIAS	137.91	137.74	-0.1662
9	3	HDR UNBIAS	138.98	137.37	-1.6155
10	3	HDR UNBIAS	138.66	138.49	-0.1702
11	10	HDR BIAS	137.37	137.16	-0.2142
12	10	HDR BIAS	138.69	137.28	-1.4147
13	10	HDR BIAS	134.58	133.78	-0.8079
14	10	HDR BIAS	137.51	136.87	-0.6423
15	10	HDR BIAS	136.33	134.96	-1.3673
16	10	HDR UNBIAS	137.04	136.61	-0.4296
17	10	HDR UNBIAS	136.9	135.94	-0.9604
18	10	HDR UNBIAS	139.27	137.35	-1.915
19	10	HDR UNBIAS	137.4	136.84	-0.5591
20	10	HDR UNBIAS	135.77	135.31	-0.4615
31	30	HDR BIAS	137.55	136.14	-1.4126
32	30	HDR BIAS	136.64	134.98	-1.6645
33	30	HDR BIAS	138.26	135.36	-2.9042
34	30	HDR BIAS	138.66	137.64	-1.0213
35	30	HDR BIAS	137.38	136.32	-1.0628
36	30	HDR UNBIAS	138.88	136.01	-2.8639
37	30	HDR UNBIAS	137.47	135.62	-1.8479
38	30	HDR UNBIAS	138.31	136.7	-1.603
39	30	HDR UNBIAS	139.16	136.1	-3.0635
40	30	HDR UNBIAS	135.84	134.02	-1.8283
41	50	HDR BIAS	136.88	134.25	-2.6295
42	50	HDR BIAS	138.97	135.41	-3.5564
43	50	HDR BIAS	137.38	135.26	-2.1174
44	50	HDR BIAS	136.94	134.51	-2.424
45	50	HDR BIAS	138.48	135.1	-3.3769
46	50	HDR UNBIAS	136.04	133.03	-3.001
47	50	HDR UNBIAS	138.13	135.26	-2.869
48	50	HDR UNBIAS	137.04	133.15	-3.8919
49	50	HDR UNBIAS	137.05	133.51	-3.5461
50	50	HDR UNBIAS	136.93	134.02	-2.9021
51	100	HDR BIAS	138.39	132.09	-6.3002
52	100	HDR BIAS	138.52	134.73	-3.7899
53	100	HDR BIAS	136.08	131.03	-5.0517
54	100	HDR BIAS	138.16	132.27	-5.8981
55	100	HDR BIAS	136.42	131.46	-4.9647
56	100	HDR UNBIAS	136.82	131.09	-5.7372
57	100	HDR UNBIAS	136.17	128.5	-7.6637
58	100	HDR UNBIAS	138.4	133.47	-4.9329
59	100	HDR UNBIAS	137.23	130.54	-6.6912
60	100	HDR UNBIAS	138.17	132.2	-5.975
91	0	CORRELATION	137.53	137.19	-0.3327
92	0	CORRELATION	136.89	135.58	-1.3067
93	0	CORRELATION	137.93	137.9	-0.0265
94	0	CORRELATION	136.84	136.82	-0.0256

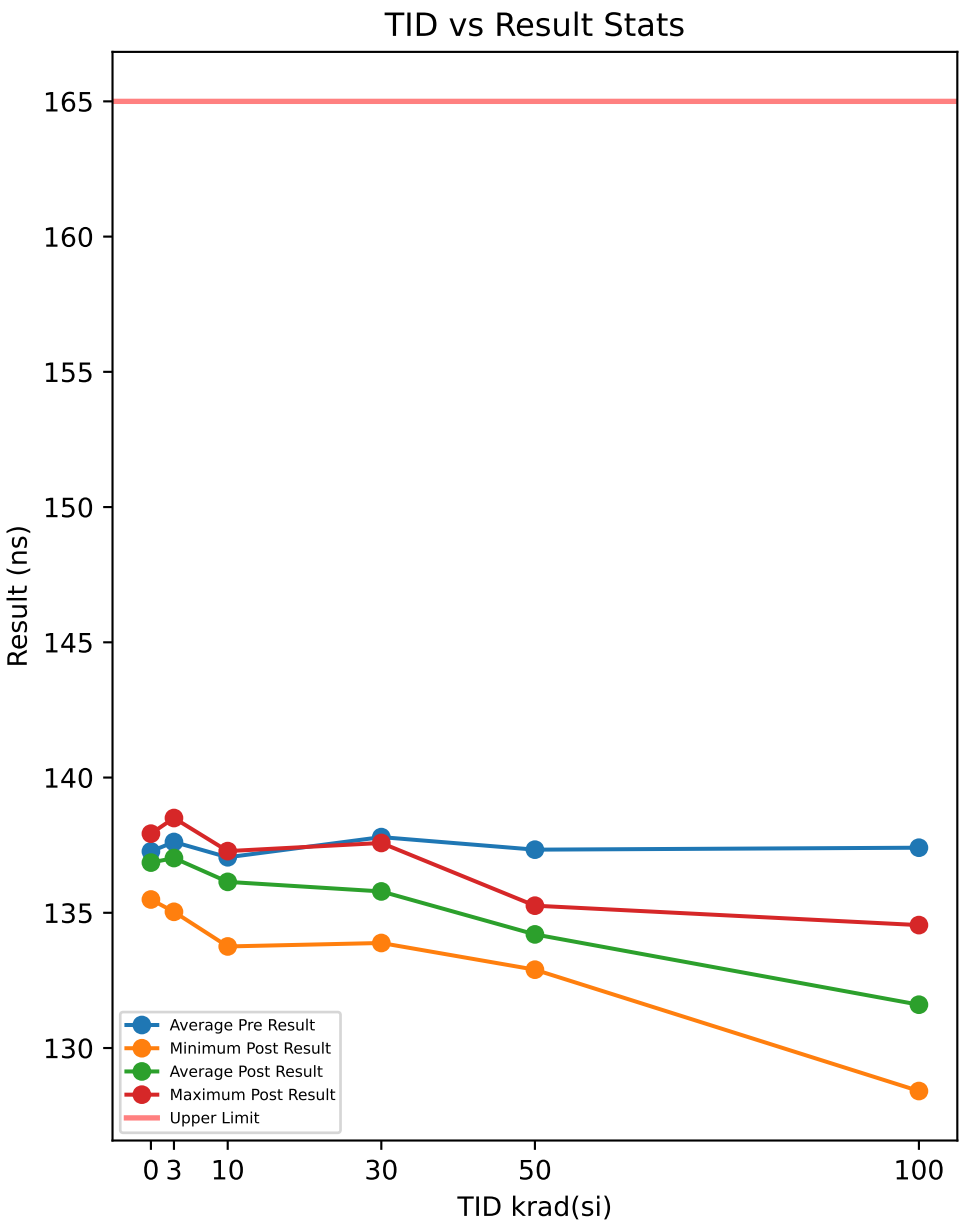
TID vs Post - Pre Exposure Delta

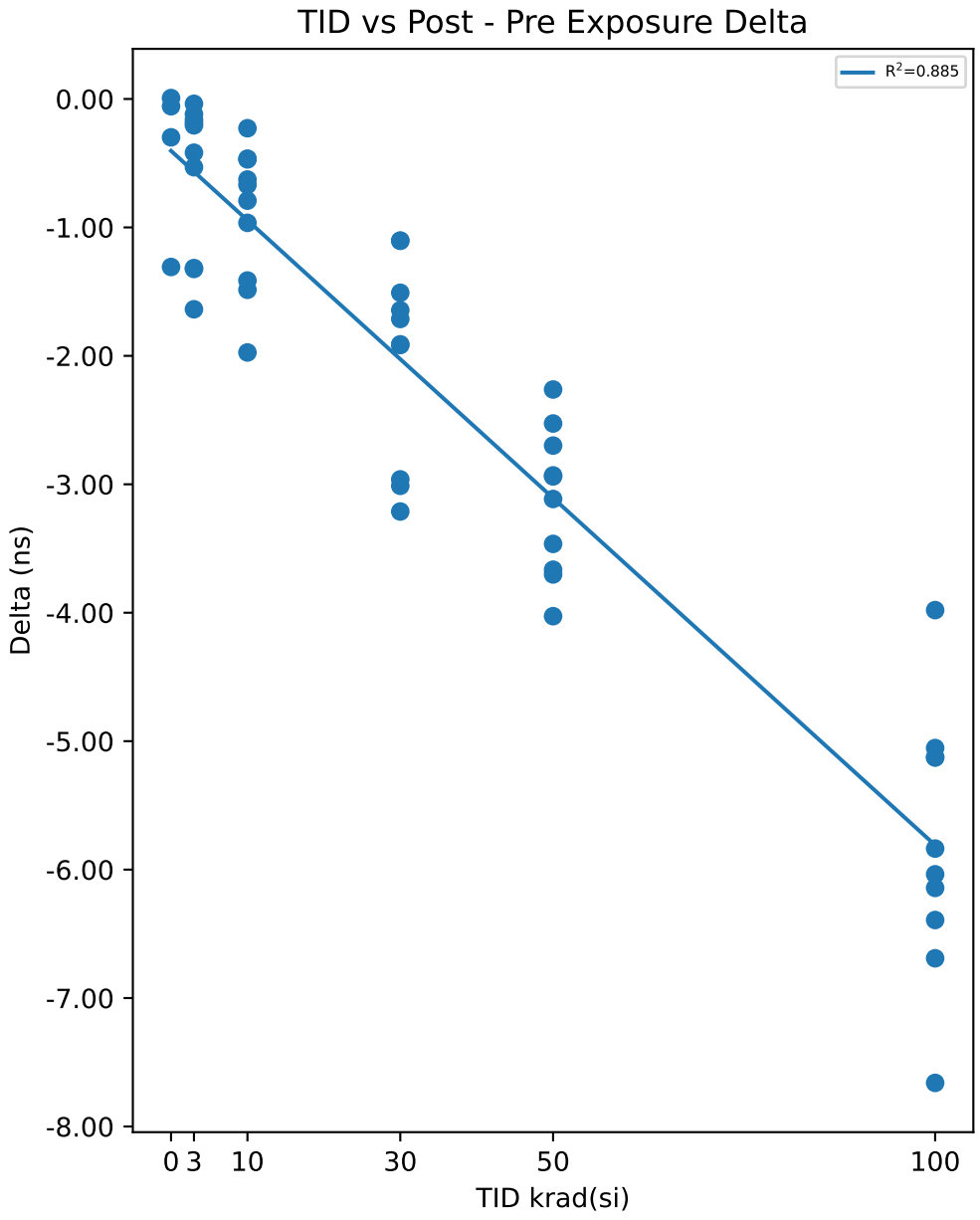


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	136.84	137.3	137.93	0.52487	135.58	136.87	137.9	0.97265	-1.3067	-0.42288	-0.0256	0.60669
3	135.63	137.64	139.26	1.14	135.07	137.06	138.49	1.007	-1.6155	-0.58326	-0.0303	0.58885
10	134.58	137.09	139.27	1.3459	133.78	136.21	137.35	1.1882	-1.915	-0.8772	-0.2142	0.53613
30	135.84	137.82	139.16	1.0401	134.02	135.89	137.64	0.98551	-3.0635	-1.9272	-1.0213	0.75616
50	136.04	137.38	138.97	0.87963	133.03	134.35	135.41	0.90436	-3.8919	-3.0314	-2.1174	0.55879
100	136.08	137.44	138.52	0.9984	128.5	131.74	134.73	1.6818	-7.6637	-5.7005	-3.7899	1.0808

Device Test: 26.4 TIMING|MIN/OUT/14/14/0/0/5/500kHz//@TON_MIN





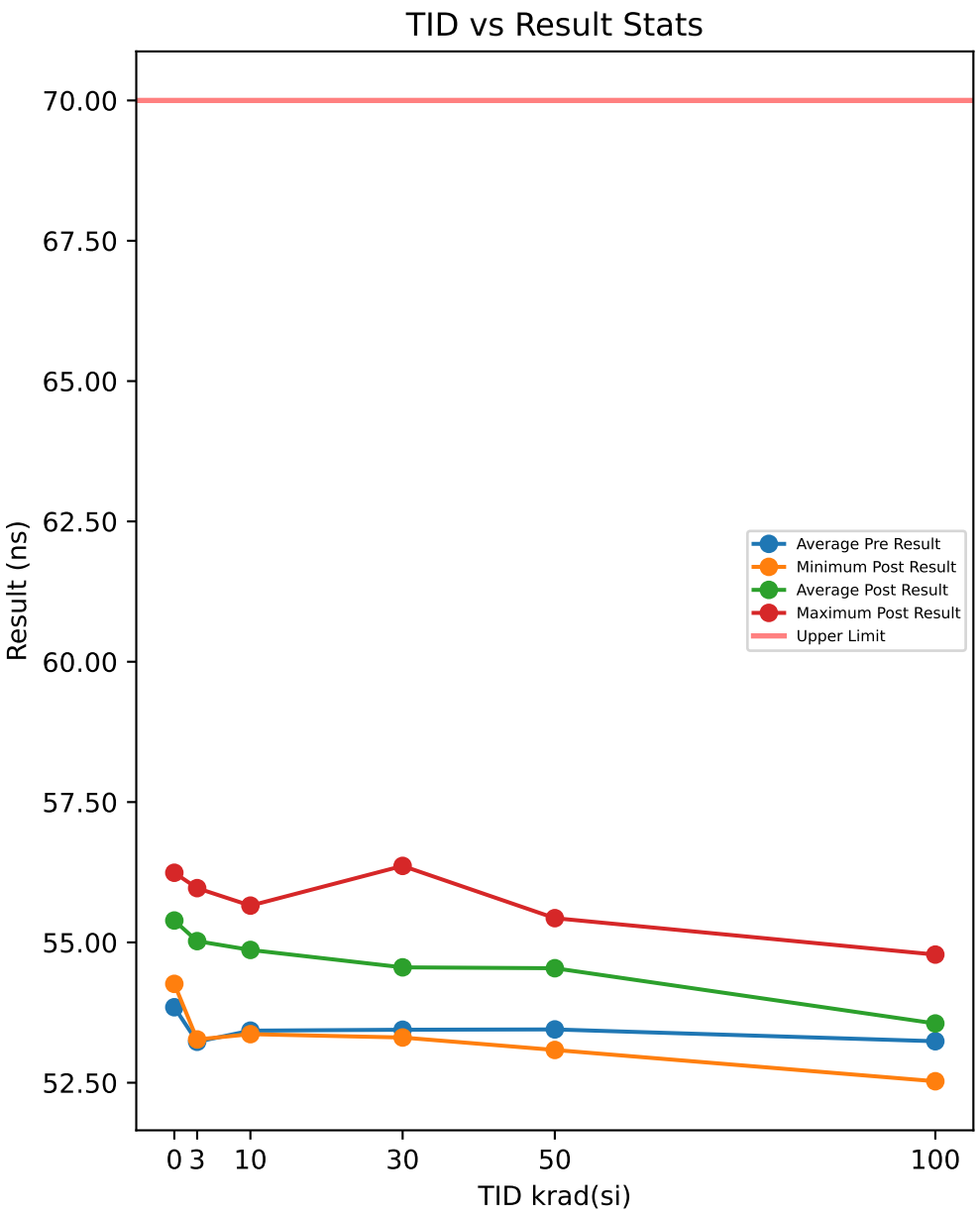
Test Results (Upper Limit = 165.0 (ns))

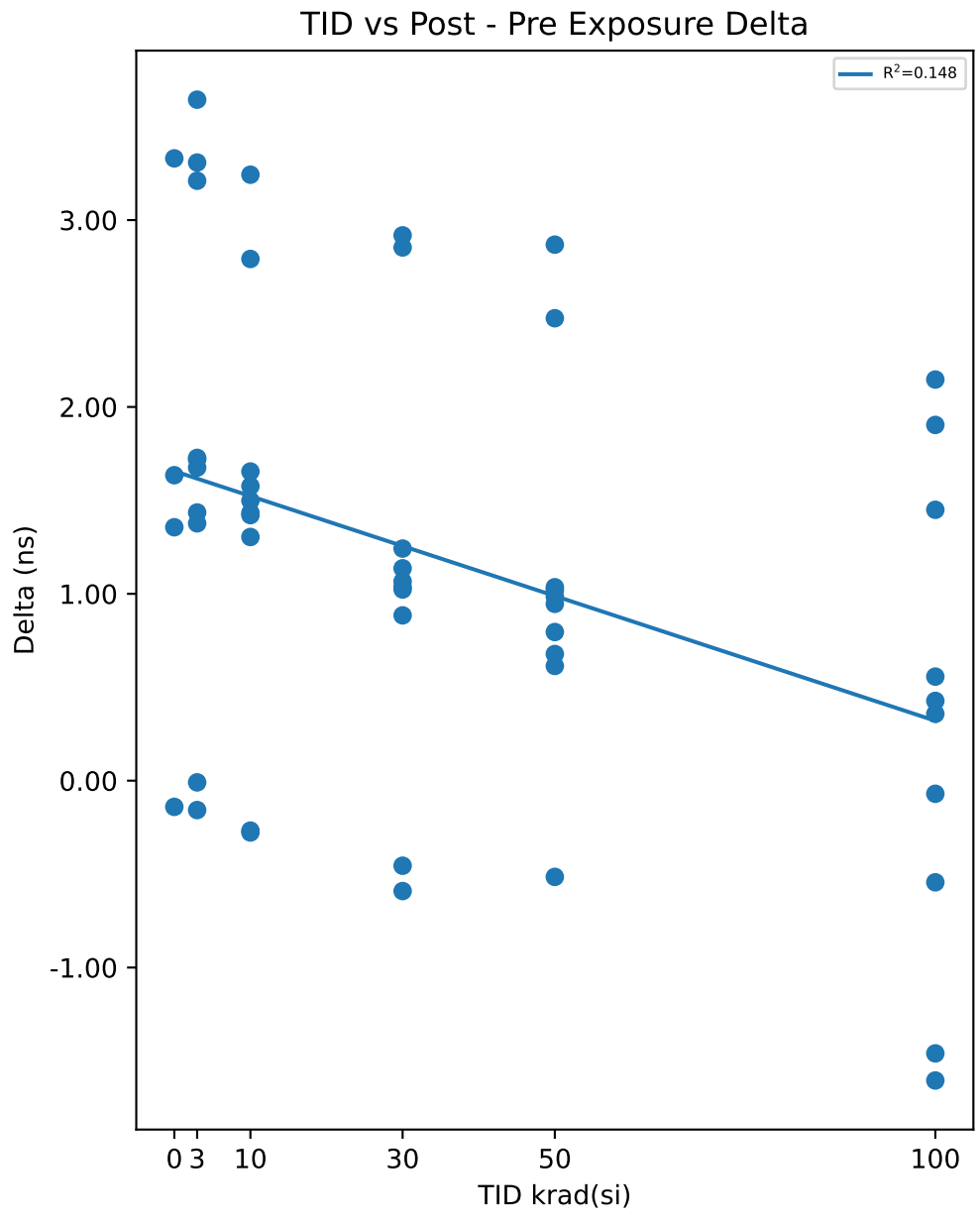
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	137.84	137.42	-0.4184
2	3	HDR BIAS	137.14	136.95	-0.1855
3	3	HDR BIAS	139.28	137.96	-1.3166
4	3	HDR BIAS	137.04	137	-0.0377
5	3	HDR BIAS	135.57	135.04	-0.5313
6	3	HDR UNBIAS	137.35	136.03	-1.3235
7	3	HDR UNBIAS	136.35	136.19	-0.1618
8	3	HDR UNBIAS	137.91	137.79	-0.1182
9	3	HDR UNBIAS	139	137.37	-1.6373
10	3	HDR UNBIAS	138.71	138.5	-0.2055
11	10	HDR BIAS	137.35	137.13	-0.2278
12	10	HDR BIAS	138.7	137.21	-1.4856
13	10	HDR BIAS	134.55	133.76	-0.7917
14	10	HDR BIAS	137.48	136.81	-0.6692
15	10	HDR BIAS	136.27	134.85	-1.4135
16	10	HDR UNBIAS	137	136.54	-0.4647
17	10	HDR UNBIAS	136.81	135.84	-0.9646
18	10	HDR UNBIAS	139.25	137.28	-1.9737
19	10	HDR UNBIAS	137.4	136.77	-0.6272
20	10	HDR UNBIAS	135.71	135.24	-0.4704
31	30	HDR BIAS	137.55	136.04	-1.509
32	30	HDR BIAS	136.59	134.87	-1.7129
33	30	HDR BIAS	138.21	135.2	-3.0119
34	30	HDR BIAS	138.69	137.58	-1.1034
35	30	HDR BIAS	137.33	136.22	-1.1035
36	30	HDR UNBIAS	138.9	135.94	-2.9618
37	30	HDR UNBIAS	137.44	135.52	-1.9159
38	30	HDR UNBIAS	138.31	136.67	-1.645
39	30	HDR UNBIAS	139.17	135.96	-3.212
40	30	HDR UNBIAS	135.79	133.88	-1.9102
41	50	HDR BIAS	136.8	134.11	-2.6987
42	50	HDR BIAS	138.93	135.26	-3.6651
43	50	HDR BIAS	137.35	135.09	-2.2621
44	50	HDR BIAS	136.85	134.32	-2.5268
45	50	HDR BIAS	138.51	135.05	-3.4641
46	50	HDR UNBIAS	136.01	132.9	-3.1145
47	50	HDR UNBIAS	138.08	135.15	-2.9307
48	50	HDR UNBIAS	136.94	132.92	-4.0269
49	50	HDR UNBIAS	137.02	133.32	-3.702
50	50	HDR UNBIAS	136.83	133.89	-2.9387
51	100	HDR BIAS	138.35	131.96	-6.3924
52	100	HDR BIAS	138.52	134.54	-3.9796
53	100	HDR BIAS	136	130.87	-5.127
54	100	HDR BIAS	138.15	132.12	-6.0365
55	100	HDR BIAS	136.36	131.31	-5.0536
56	100	HDR UNBIAS	136.78	130.94	-5.8363
57	100	HDR UNBIAS	136.07	128.41	-7.6606
58	100	HDR UNBIAS	138.48	133.35	-5.1252
59	100	HDR UNBIAS	137.15	130.46	-6.6904
60	100	HDR UNBIAS	138.2	132.05	-6.1424
91	0	CORRELATION	137.48	137.18	-0.2986
92	0	CORRELATION	136.8	135.49	-1.3081
93	0	CORRELATION	137.98	137.93	-0.0568
94	0	CORRELATION	136.82	136.83	0.0069

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	136.8	137.27	137.98	0.56961	135.49	136.86	137.93	1.0183	-1.3081	-0.41415	0.0069	0.61032
3	135.57	137.62	139.28	1.1755	135.04	137.02	138.5	1.0309	-1.6373	-0.59358	-0.0377	0.59796
10	134.55	137.05	139.25	1.362	133.76	136.14	137.28	1.1861	-1.9737	-0.90884	-0.2278	0.55057
30	135.79	137.8	139.17	1.0659	133.88	135.79	137.58	1.0098	-3.212	-2.0086	-1.1034	0.78099
50	136.01	137.33	138.93	0.89826	132.9	134.2	135.26	0.93037	-4.0269	-3.133	-2.2621	0.56854
100	136	137.41	138.52	1.0426	128.41	131.6	134.54	1.6621	-7.6606	-5.8044	-3.9796	1.0306

Device Test: 26.5 TIMING|EXT/OUT/14/14/0/0/5/500kHz//@T_OFF_EXTENDER





Test Results (Upper Limit = 70.0 (ns))

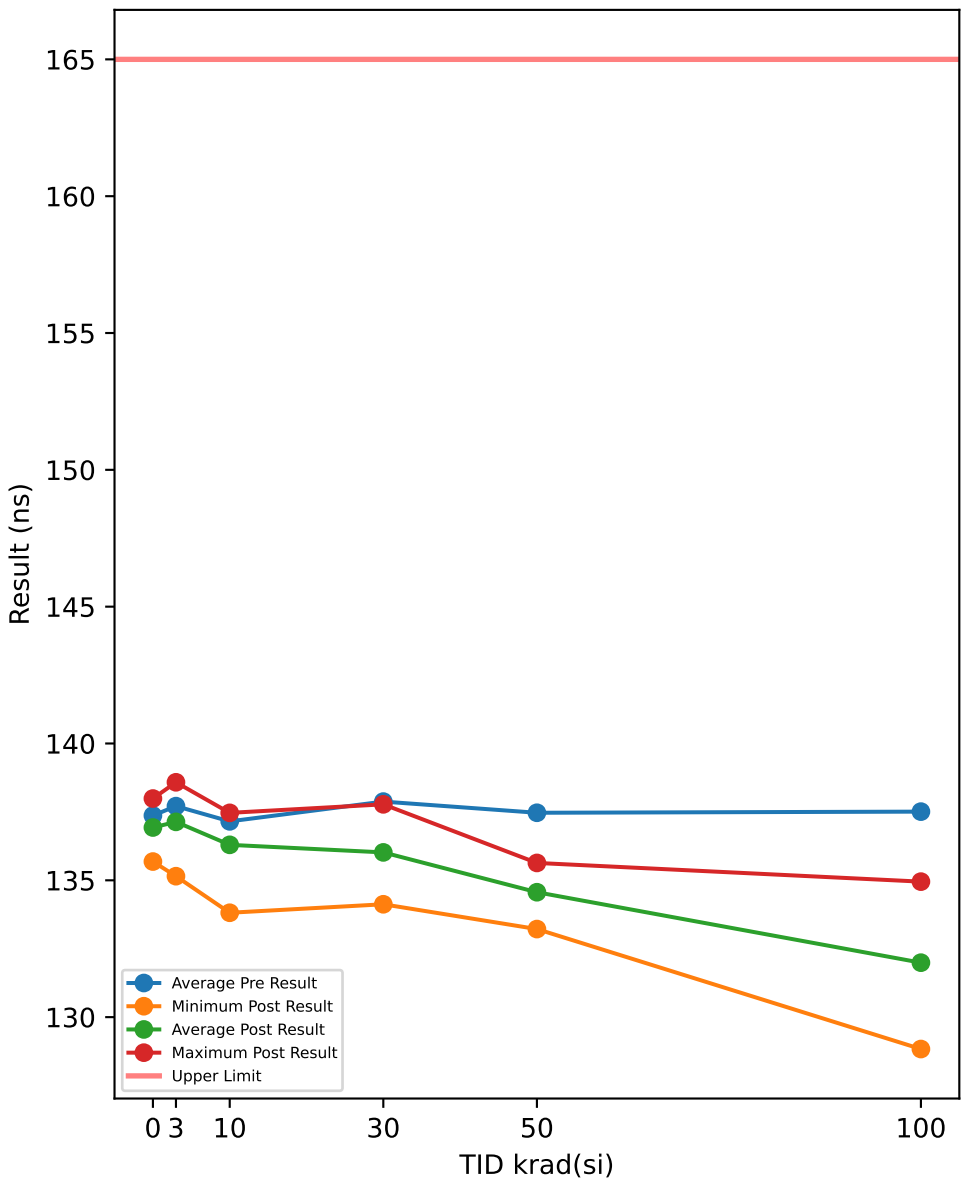
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	53.769	55.204	1.4353
2	3	HDR BIAS	53.82	55.547	1.7274
3	3	HDR BIAS	51.851	55.062	3.2105
4	3	HDR BIAS	53.428	53.271	-0.1572
5	3	HDR BIAS	53.429	55.104	1.6755
6	3	HDR UNBIAS	52.322	55.967	3.6444
7	3	HDR UNBIAS	53.678	55.056	1.3771
8	3	HDR UNBIAS	53.752	53.743	-0.0091
9	3	HDR UNBIAS	52.084	55.392	3.3079
10	3	HDR UNBIAS	54.161	55.881	1.7194
11	10	HDR BIAS	54.067	55.565	1.4988
12	10	HDR BIAS	52.33	53.985	1.6544
13	10	HDR BIAS	54.197	55.618	1.4211
14	10	HDR BIAS	54.222	55.655	1.4335
15	10	HDR BIAS	51.936	54.728	2.792
16	10	HDR UNBIAS	53.642	53.365	-0.2772
17	10	HDR UNBIAS	53.549	55.125	1.5762
18	10	HDR UNBIAS	51.812	55.055	3.2428
19	10	HDR UNBIAS	53.983	55.287	1.3041
20	10	HDR UNBIAS	54.54	54.273	-0.2672
31	30	HDR BIAS	53.863	54.747	0.8846
32	30	HDR BIAS	53.84	53.385	-0.4551
33	30	HDR BIAS	52.196	55.114	2.9183
34	30	HDR BIAS	53.863	54.899	1.0363
35	30	HDR BIAS	53.572	54.595	1.023
36	30	HDR UNBIAS	52.063	53.305	1.2421
37	30	HDR UNBIAS	53.86	54.926	1.0665
38	30	HDR UNBIAS	55.227	56.363	1.1364
39	30	HDR UNBIAS	52.014	54.867	2.8535
40	30	HDR UNBIAS	53.943	53.352	-0.5907
41	50	HDR BIAS	53.476	54.511	1.0352
42	50	HDR BIAS	52.021	54.89	2.8685
43	50	HDR BIAS	54.058	55.005	0.9463
44	50	HDR BIAS	53.598	53.084	-0.5148
45	50	HDR BIAS	52.957	55.432	2.4747
46	50	HDR UNBIAS	54.066	55.05	0.9849
47	50	HDR UNBIAS	54.087	54.882	0.7955
48	50	HDR UNBIAS	52.217	53.237	1.0202
49	50	HDR UNBIAS	53.888	54.566	0.6778
50	50	HDR UNBIAS	54.129	54.742	0.614
51	100	HDR BIAS	51.881	53.331	1.4496
52	100	HDR BIAS	54.115	52.655	-1.4594
53	100	HDR BIAS	53.803	54.161	0.3578
54	100	HDR BIAS	52.343	54.247	1.9037
55	100	HDR BIAS	54.136	54.066	-0.0701
56	100	HDR UNBIAS	54.131	52.526	-1.6045
57	100	HDR UNBIAS	51.704	53.85	2.1466
58	100	HDR UNBIAS	54.356	54.783	0.4269
59	100	HDR UNBIAS	53.771	53.227	-0.5439
60	100	HDR UNBIAS	52.151	52.708	0.5569
91	0	CORRELATION	54.43	55.786	1.3562
92	0	CORRELATION	51.941	55.271	3.3302
93	0	CORRELATION	54.606	56.241	1.6347
94	0	CORRELATION	54.401	54.261	-0.1401

Test Statistics (ns)

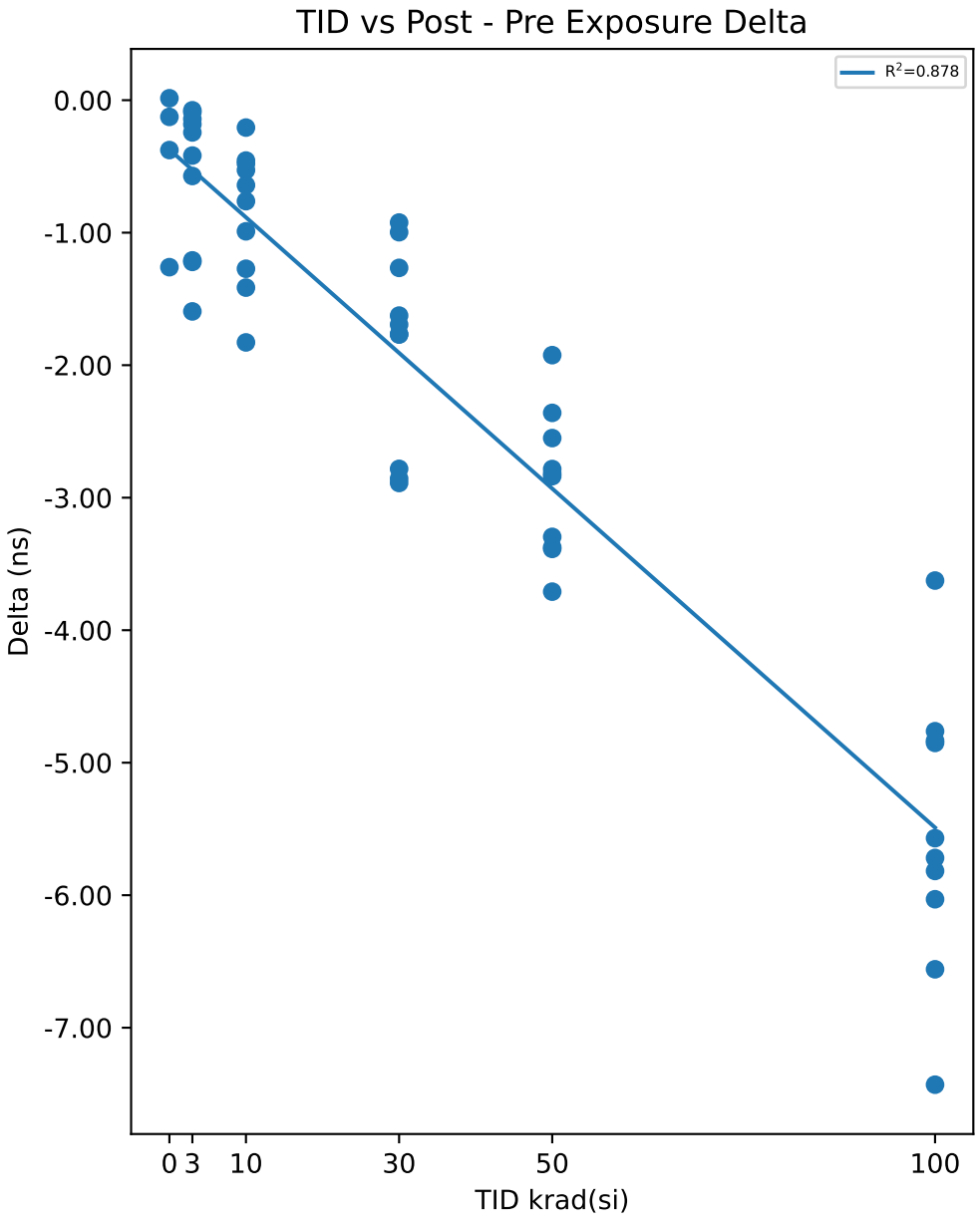
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.941	53.845	54.606	1.2722	54.261	55.39	56.241	0.8503	-0.1401	1.5452	3.3302	1.4225
3	51.851	53.229	54.161	0.82302	53.271	55.023	55.967	0.86842	-0.1572	1.7931	3.6444	1.2956
10	51.812	53.428	54.54	1.0153	53.365	54.866	55.655	0.77158	-0.2772	1.4378	3.2428	1.107
30	52.014	53.444	55.227	1.0346	53.305	54.555	56.363	0.96326	-0.5907	1.1115	2.9183	1.1419
50	52.021	53.45	54.129	0.79127	53.084	54.54	55.432	0.77266	-0.5148	1.0902	2.8685	0.95328
100	51.704	53.239	54.356	1.075	52.526	53.555	54.783	0.77788	-1.6045	0.31636	2.1466	1.2892

Device Test: 26.7 TIMING|MIN/OUT/8/8/0/0/5/500kHz//@TON_MIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



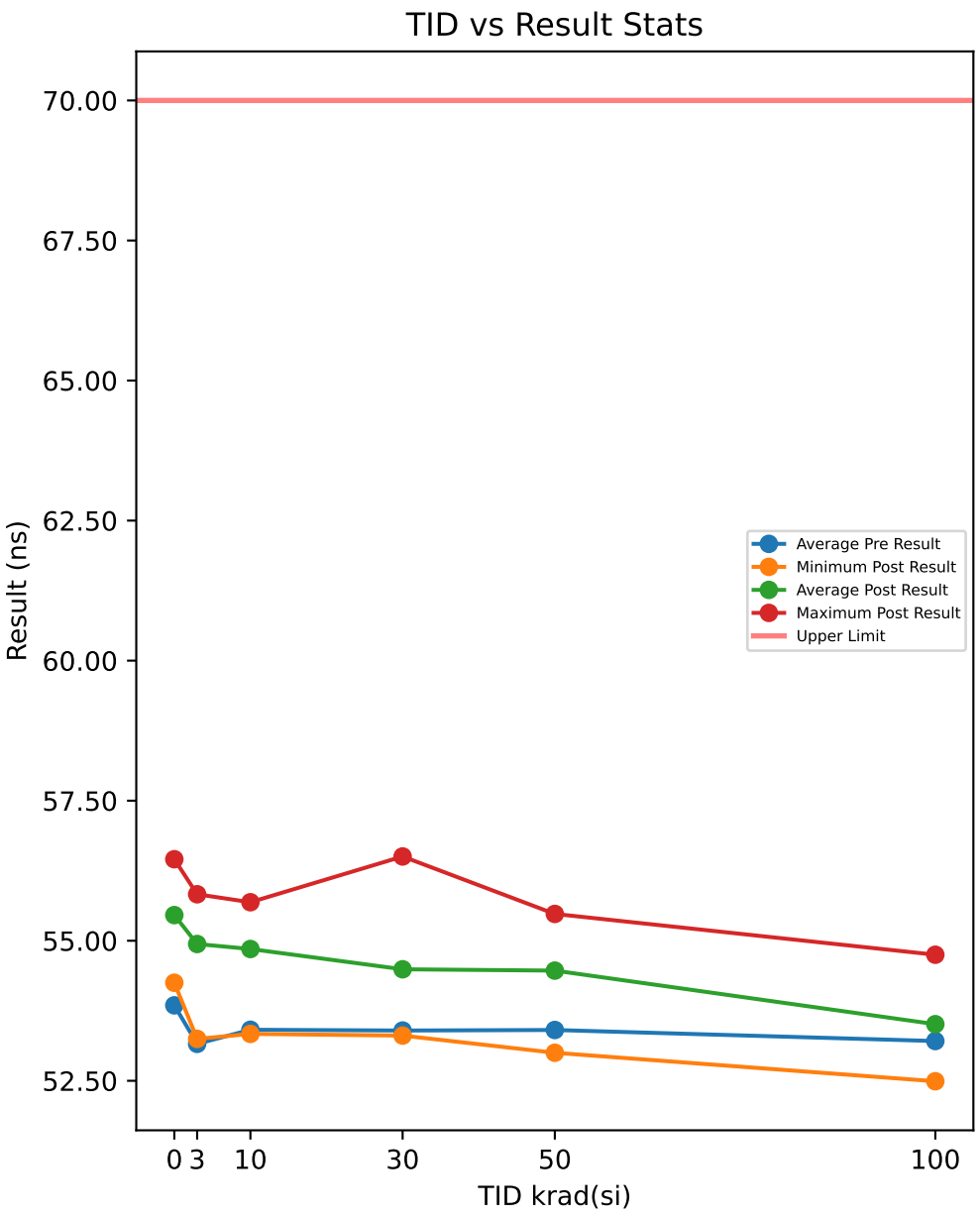
Test Results (Upper Limit = 165.0 (ns))

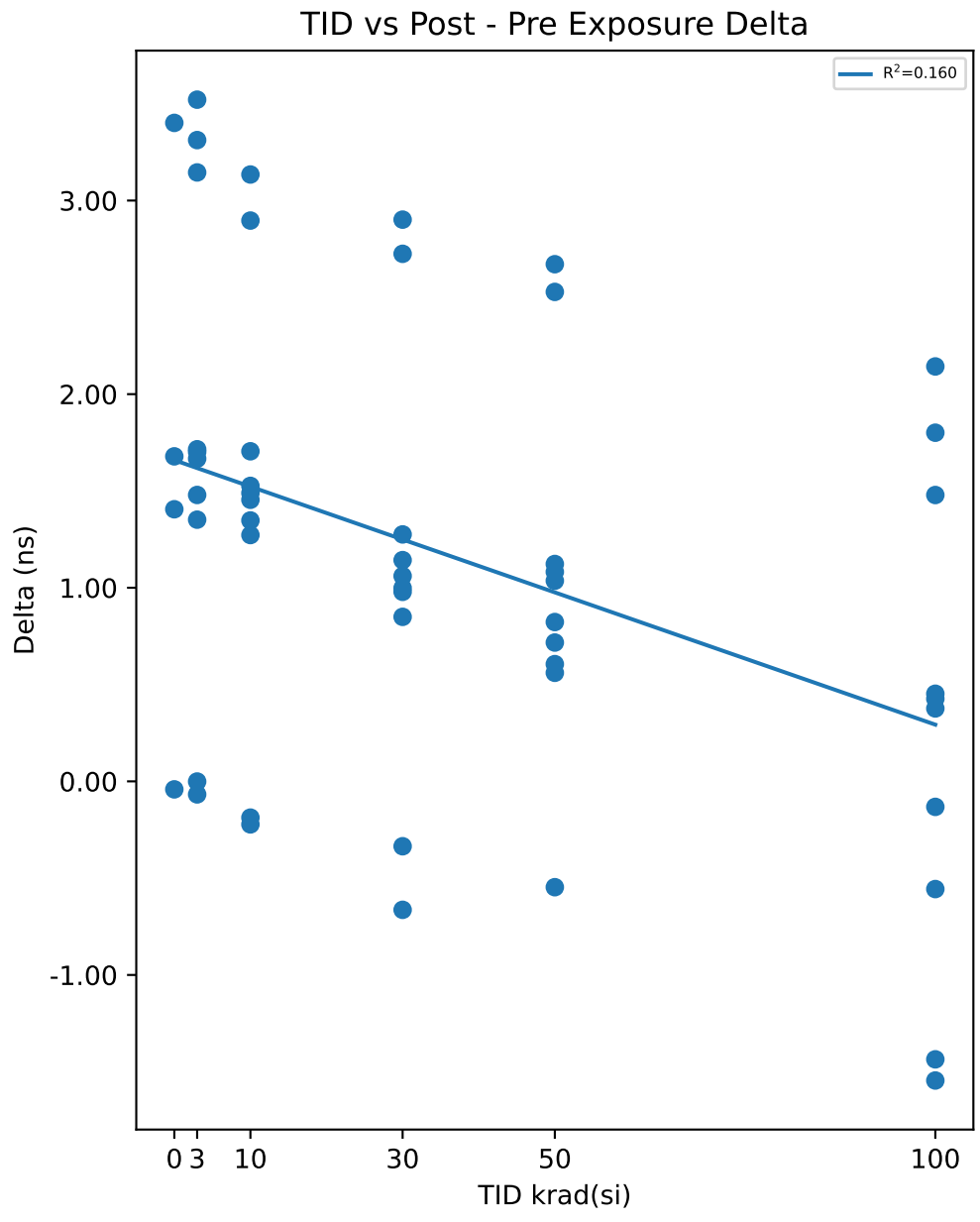
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	137.97	137.55	-0.4179
2	3	HDR BIAS	137.32	137.14	-0.1817
3	3	HDR BIAS	139.29	138.08	-1.2091
4	3	HDR BIAS	137.19	137.1	-0.0907
5	3	HDR BIAS	135.72	135.15	-0.5722
6	3	HDR UNBIAS	137.39	136.17	-1.2206
7	3	HDR UNBIAS	136.5	136.43	-0.0763
8	3	HDR UNBIAS	137.98	137.74	-0.2435
9	3	HDR UNBIAS	139.01	137.42	-1.5942
10	3	HDR UNBIAS	138.72	138.58	-0.1423
11	10	HDR BIAS	137.47	137.27	-0.2068
12	10	HDR BIAS	138.74	137.32	-1.4146
13	10	HDR BIAS	134.58	133.81	-0.7622
14	10	HDR BIAS	137.62	136.98	-0.6415
15	10	HDR BIAS	136.4	135.12	-1.2723
16	10	HDR UNBIAS	137.12	136.67	-0.4556
17	10	HDR UNBIAS	137.02	136.03	-0.9898
18	10	HDR UNBIAS	139.29	137.46	-1.8281
19	10	HDR UNBIAS	137.46	136.98	-0.4788
20	10	HDR UNBIAS	135.84	135.31	-0.5279
31	30	HDR BIAS	137.58	136.31	-1.2657
32	30	HDR BIAS	136.74	135.04	-1.6935
33	30	HDR BIAS	138.32	135.53	-2.7825
34	30	HDR BIAS	138.7	137.78	-0.9235
35	30	HDR BIAS	137.48	136.49	-0.9965
36	30	HDR UNBIAS	138.92	136.06	-2.8558
37	30	HDR UNBIAS	137.53	135.77	-1.7664
38	30	HDR UNBIAS	138.43	136.8	-1.6258
39	30	HDR UNBIAS	139.19	136.3	-2.889
40	30	HDR UNBIAS	135.89	134.12	-1.7686
41	50	HDR BIAS	137.03	134.48	-2.5501
42	50	HDR BIAS	139.02	135.63	-3.3865
43	50	HDR BIAS	137.44	135.52	-1.9242
44	50	HDR BIAS	137.1	134.74	-2.3599
45	50	HDR BIAS	138.48	135.18	-3.2957
46	50	HDR UNBIAS	136.06	133.22	-2.8377
47	50	HDR UNBIAS	138.25	135.46	-2.7837
48	50	HDR UNBIAS	137.14	133.43	-3.7092
49	50	HDR UNBIAS	137.14	133.77	-3.3735
50	50	HDR UNBIAS	137.03	134.22	-2.8169
51	100	HDR BIAS	138.41	132.38	-6.0306
52	100	HDR BIAS	138.58	134.95	-3.6254
53	100	HDR BIAS	136.21	131.38	-4.8337
54	100	HDR BIAS	138.19	132.47	-5.7191
55	100	HDR BIAS	136.49	131.72	-4.7624
56	100	HDR UNBIAS	136.91	131.34	-5.5697
57	100	HDR UNBIAS	136.26	128.83	-7.4301
58	100	HDR UNBIAS	138.47	133.62	-4.8508
59	100	HDR UNBIAS	137.38	130.82	-6.5591
60	100	HDR UNBIAS	138.2	132.39	-5.817
91	0	CORRELATION	137.62	137.25	-0.3765
92	0	CORRELATION	136.95	135.69	-1.2604
93	0	CORRELATION	137.97	137.99	0.0146
94	0	CORRELATION	136.92	136.8	-0.126

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	136.92	137.37	137.97	0.5186	135.69	136.93	137.99	0.96368	-1.2604	-0.43707	0.0146	0.57222
3	135.72	137.71	139.29	1.1189	135.15	137.14	138.58	0.99815	-1.5942	-0.57485	-0.0763	0.5595
10	134.58	137.15	139.29	1.3527	133.81	136.3	137.46	1.2029	-1.8281	-0.85776	-0.2068	0.50933
30	135.89	137.88	139.19	1.0314	134.12	136.02	137.78	0.9959	-2.889	-1.8567	-0.9235	0.74363
50	136.06	137.47	139.02	0.86755	133.22	134.56	135.63	0.89136	-3.7092	-2.9037	-1.9242	0.54393
100	136.21	137.51	138.58	0.97056	128.83	131.99	134.95	1.6382	-7.4301	-5.5198	-3.6254	1.0647

Device Test: 26.8 TIMING|EXT/OUT/8/8/0/0/5/500kHz//@T_OFF_EXTENDER





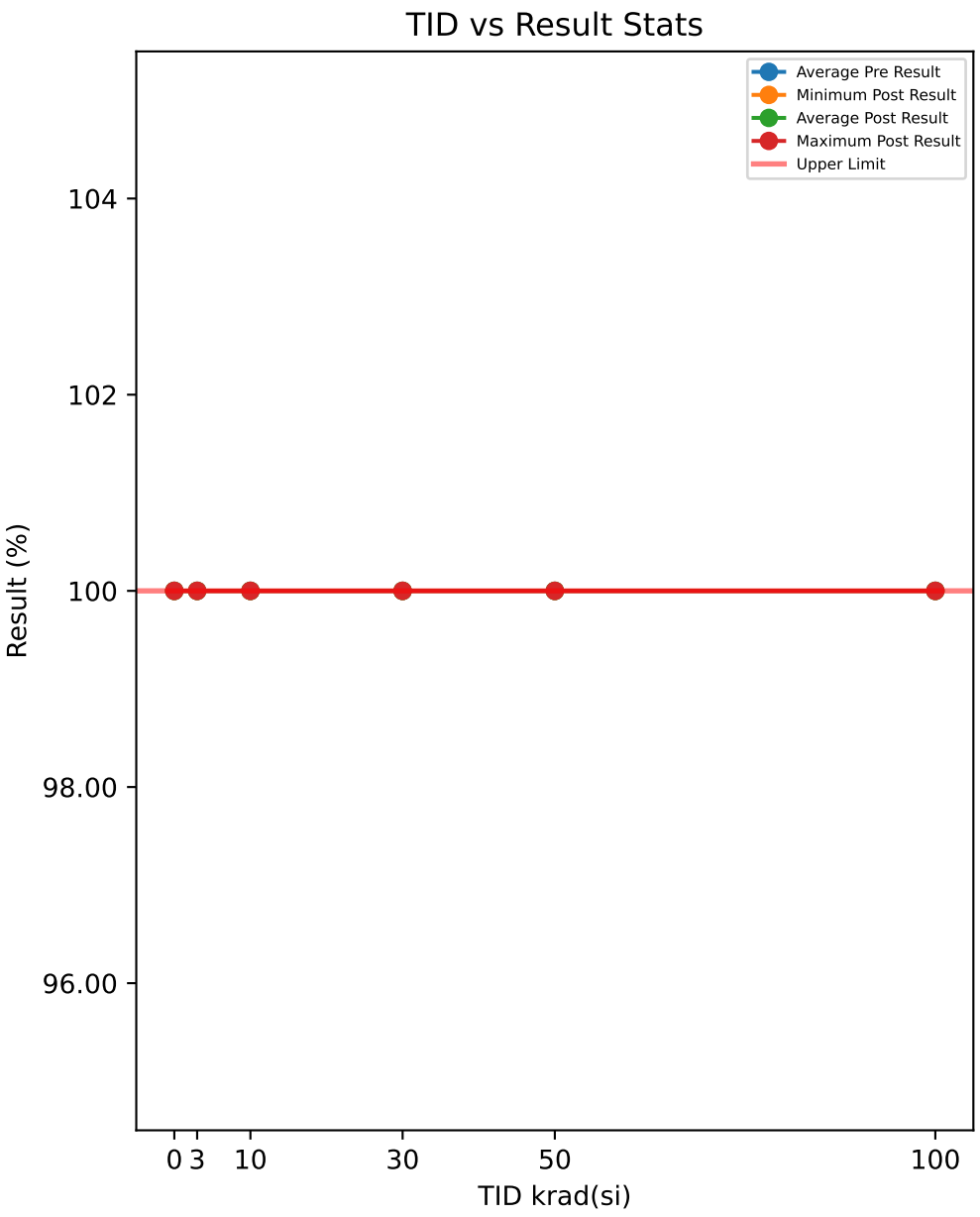
Test Results (Upper Limit = 70.0 (ns))

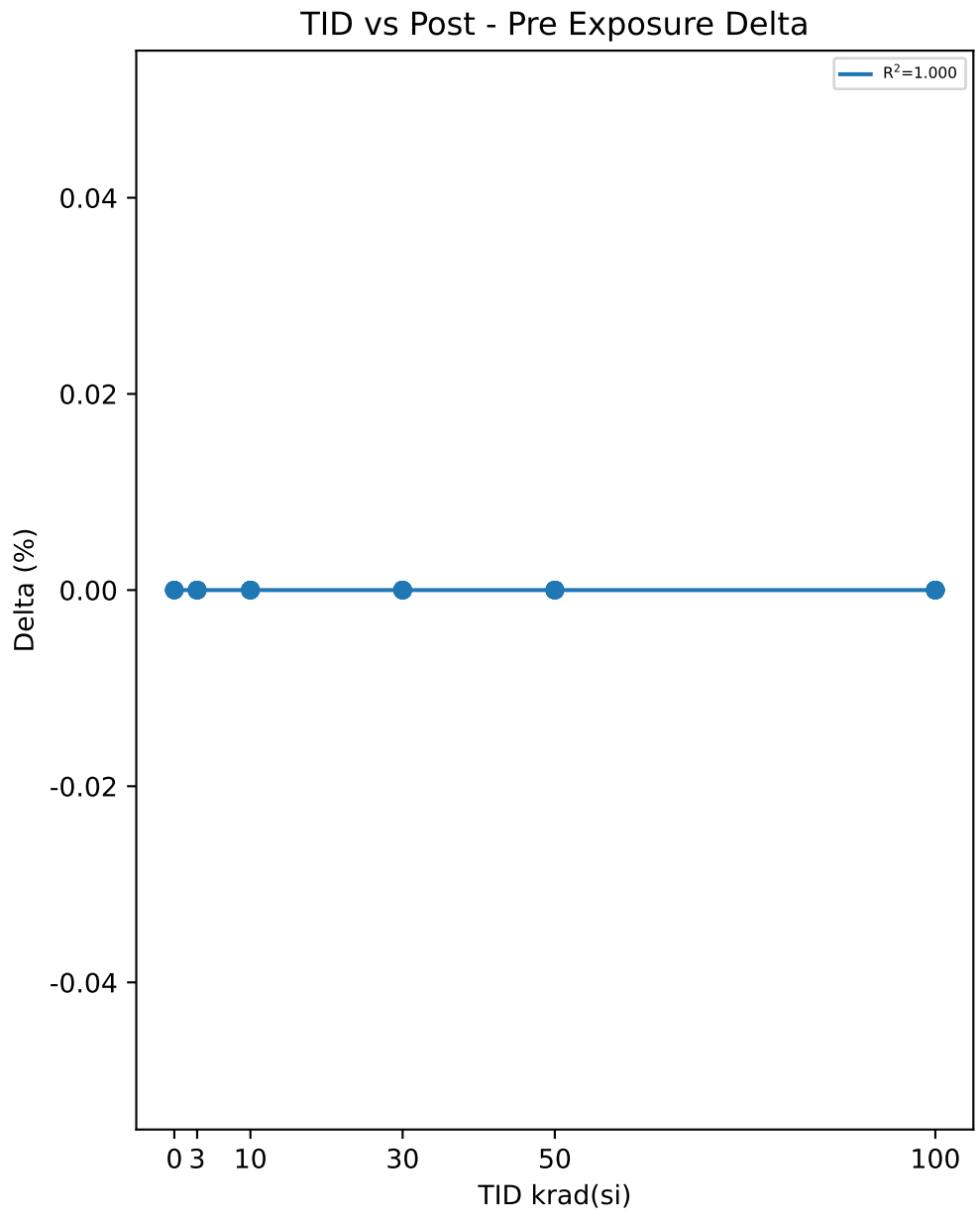
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	53.686	55.165	1.4793
2	3	HDR BIAS	53.791	55.493	1.7018
3	3	HDR BIAS	51.789	54.934	3.1452
4	3	HDR BIAS	53.315	53.248	-0.0673
5	3	HDR BIAS	53.268	54.983	1.7153
6	3	HDR UNBIAS	52.308	55.83	3.5211
7	3	HDR UNBIAS	53.588	54.94	1.3517
8	3	HDR UNBIAS	53.677	53.676	-0.0009
9	3	HDR UNBIAS	52.043	55.355	3.3123
10	3	HDR UNBIAS	54.125	55.792	1.6668
11	10	HDR BIAS	54.198	55.687	1.4891
12	10	HDR BIAS	52.347	54.052	1.7049
13	10	HDR BIAS	54.313	55.661	1.3477
14	10	HDR BIAS	54.229	55.684	1.4544
15	10	HDR BIAS	51.9	54.796	2.8966
16	10	HDR UNBIAS	53.524	53.337	-0.1873
17	10	HDR UNBIAS	53.507	55.033	1.5262
18	10	HDR UNBIAS	51.741	54.875	3.1345
19	10	HDR UNBIAS	53.916	55.188	1.2723
20	10	HDR UNBIAS	54.433	54.21	-0.2223
31	30	HDR BIAS	53.739	54.588	0.8497
32	30	HDR BIAS	53.727	53.392	-0.3352
33	30	HDR BIAS	52.135	55.037	2.9014
34	30	HDR BIAS	53.804	54.783	0.9789
35	30	HDR BIAS	53.445	54.444	0.9988
36	30	HDR UNBIAS	52.039	53.314	1.2755
37	30	HDR UNBIAS	53.754	54.814	1.0607
38	30	HDR UNBIAS	55.362	56.504	1.1427
39	30	HDR UNBIAS	51.996	54.721	2.7249
40	30	HDR UNBIAS	53.97	53.307	-0.6636
41	50	HDR BIAS	53.358	54.481	1.1227
42	50	HDR BIAS	52.01	54.681	2.6712
43	50	HDR BIAS	54.089	54.806	0.717
44	50	HDR BIAS	53.547	53	-0.5467
45	50	HDR BIAS	52.95	55.478	2.5281
46	50	HDR UNBIAS	53.977	55.059	1.0819
47	50	HDR UNBIAS	54.023	54.846	0.8229
48	50	HDR UNBIAS	52.176	53.212	1.0362
49	50	HDR UNBIAS	53.904	54.465	0.5607
50	50	HDR UNBIAS	54.034	54.64	0.6055
51	100	HDR BIAS	51.87	53.349	1.479
52	100	HDR BIAS	54.008	52.572	-1.4359
53	100	HDR BIAS	53.765	54.141	0.3766
54	100	HDR BIAS	52.363	54.164	1.8008
55	100	HDR BIAS	54.088	53.956	-0.1318
56	100	HDR UNBIAS	54.037	52.492	-1.5452
57	100	HDR UNBIAS	51.636	53.779	2.1431
58	100	HDR UNBIAS	54.324	54.75	0.4264
59	100	HDR UNBIAS	53.769	53.213	-0.5564
60	100	HDR UNBIAS	52.235	52.688	0.4525
91	0	CORRELATION	54.375	55.78	1.4054
92	0	CORRELATION	51.945	55.346	3.4011
93	0	CORRELATION	54.776	56.455	1.6787
94	0	CORRELATION	54.292	54.25	-0.0414

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.945	53.847	54.776	1.2855	54.25	55.458	56.455	0.9254	-0.0414	1.6109	3.4011	1.4121
3	51.789	53.159	54.125	0.81267	53.248	54.942	55.83	0.8503	-0.0673	1.7825	3.5211	1.2527
10	51.741	53.411	54.433	1.0344	53.337	54.852	55.687	0.78458	-0.2223	1.4416	3.1345	1.0812
30	51.996	53.397	55.362	1.0598	53.307	54.491	56.504	0.97758	-0.6636	1.0934	2.9014	1.1144
50	52.01	53.407	54.089	0.78237	53	54.467	55.478	0.77707	-0.5467	1.0599	2.6712	0.94089
100	51.636	53.21	54.324	1.0485	52.492	53.51	54.75	0.77051	-1.5452	0.30091	2.1431	1.2659

Device Test: 27.10 LEVEL|WRST_MAX/OUT/14/14/0/0/5/100kHz//@MAX_DCL_100





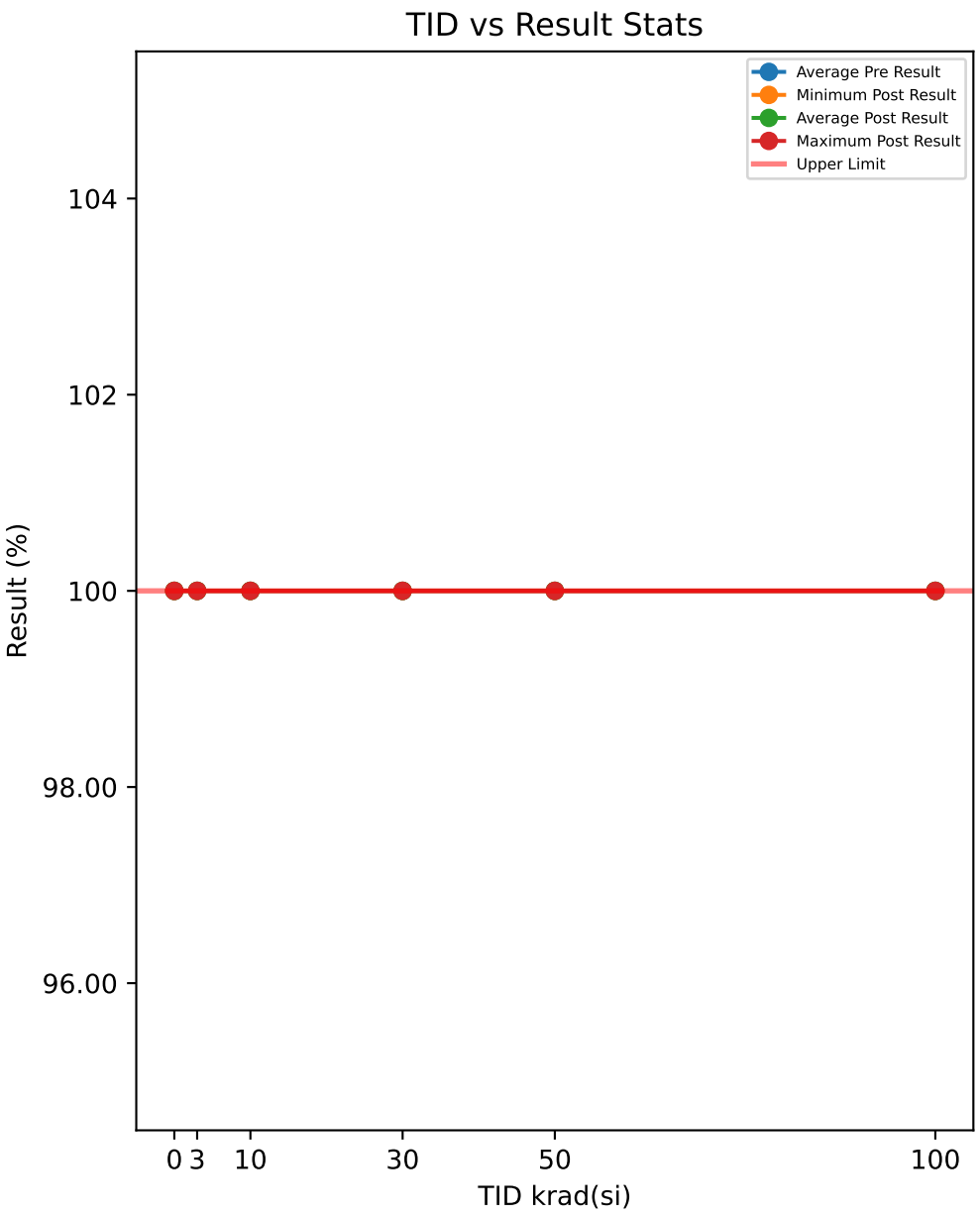
Test Results (Upper Limit = 100.0 (%))

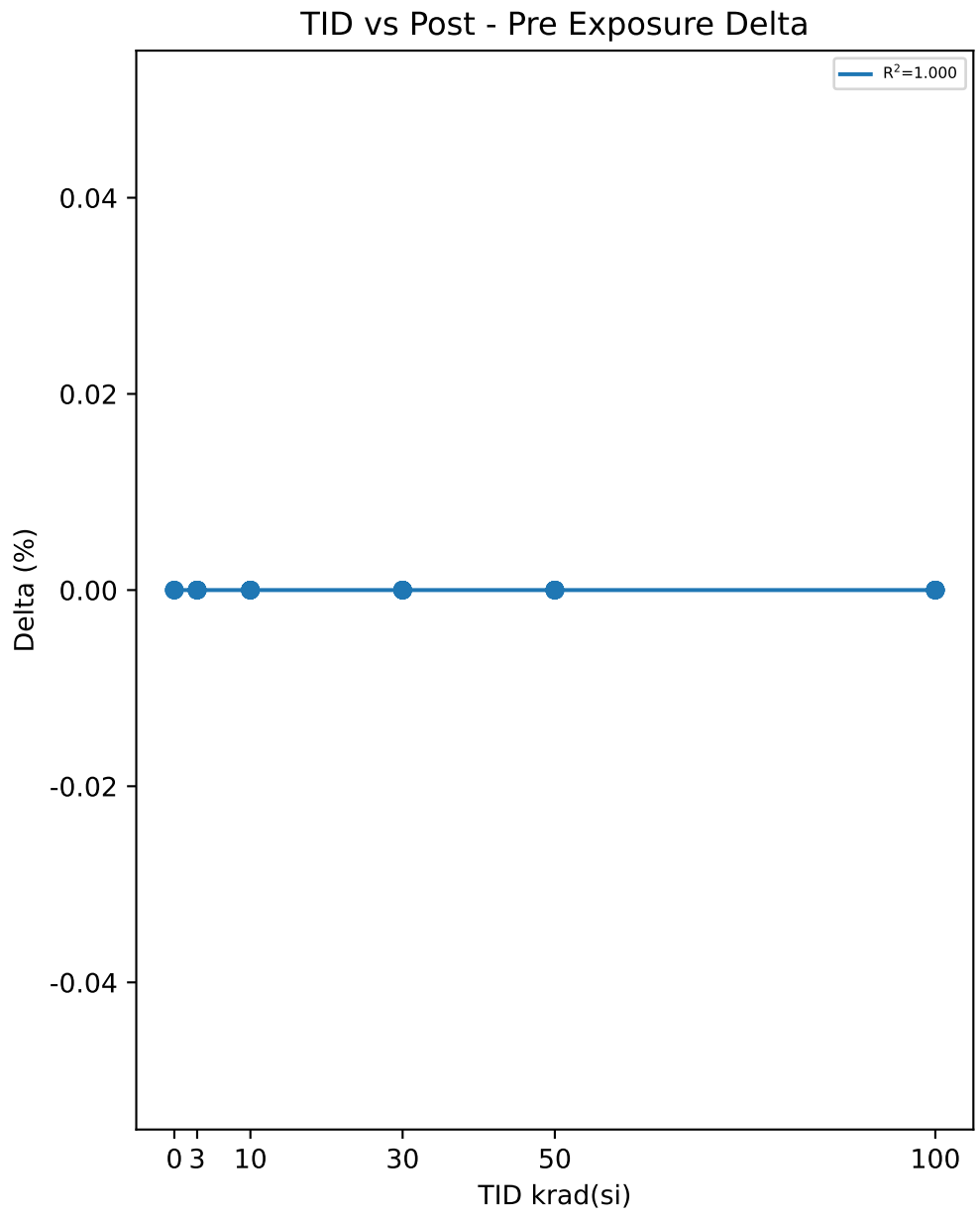
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.11 LEVEL|WRST_MAX/OUT/12/12/0/0/5/200kHz//@MAX_DCL_100





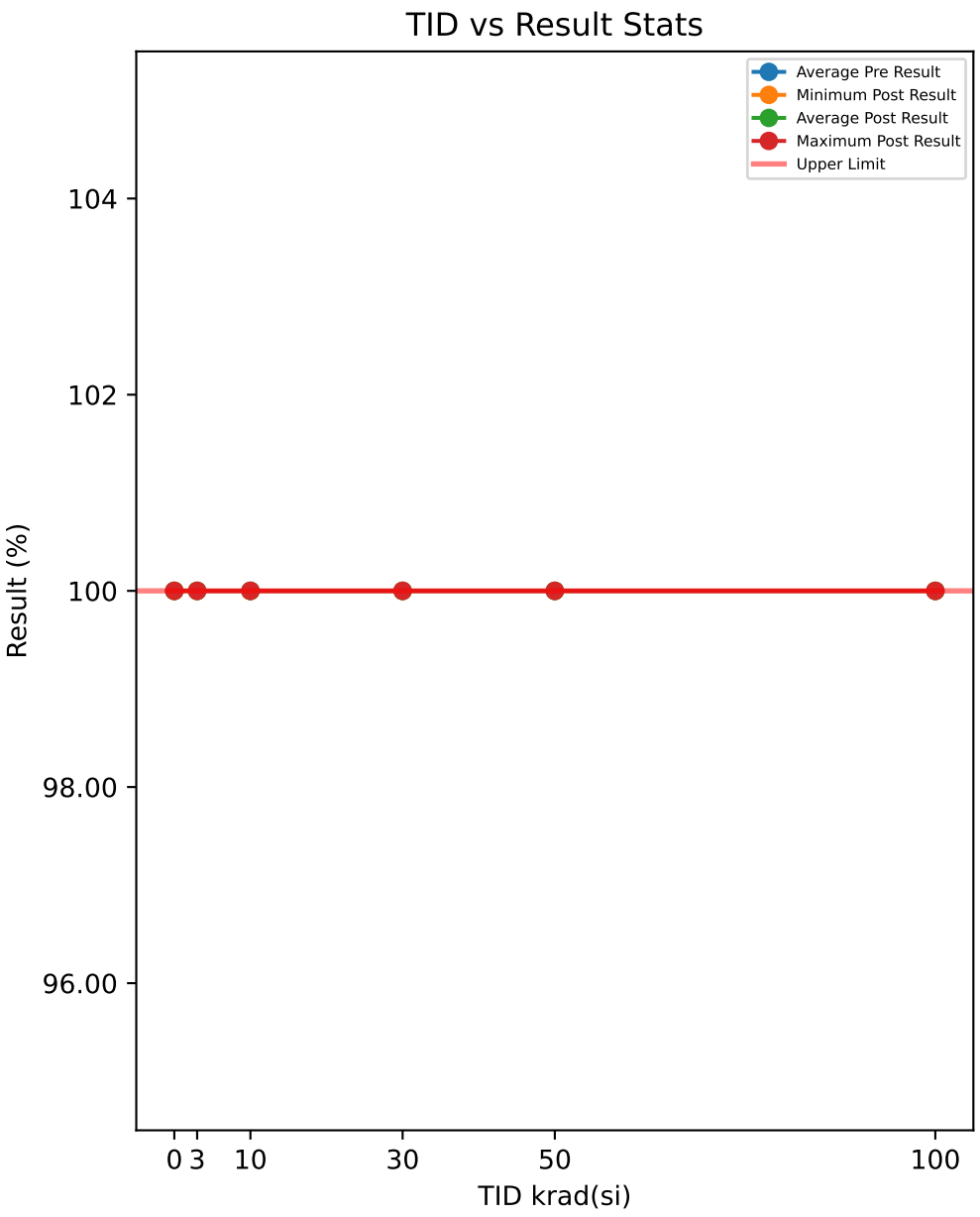
Test Results (Upper Limit = 100.0 (%))

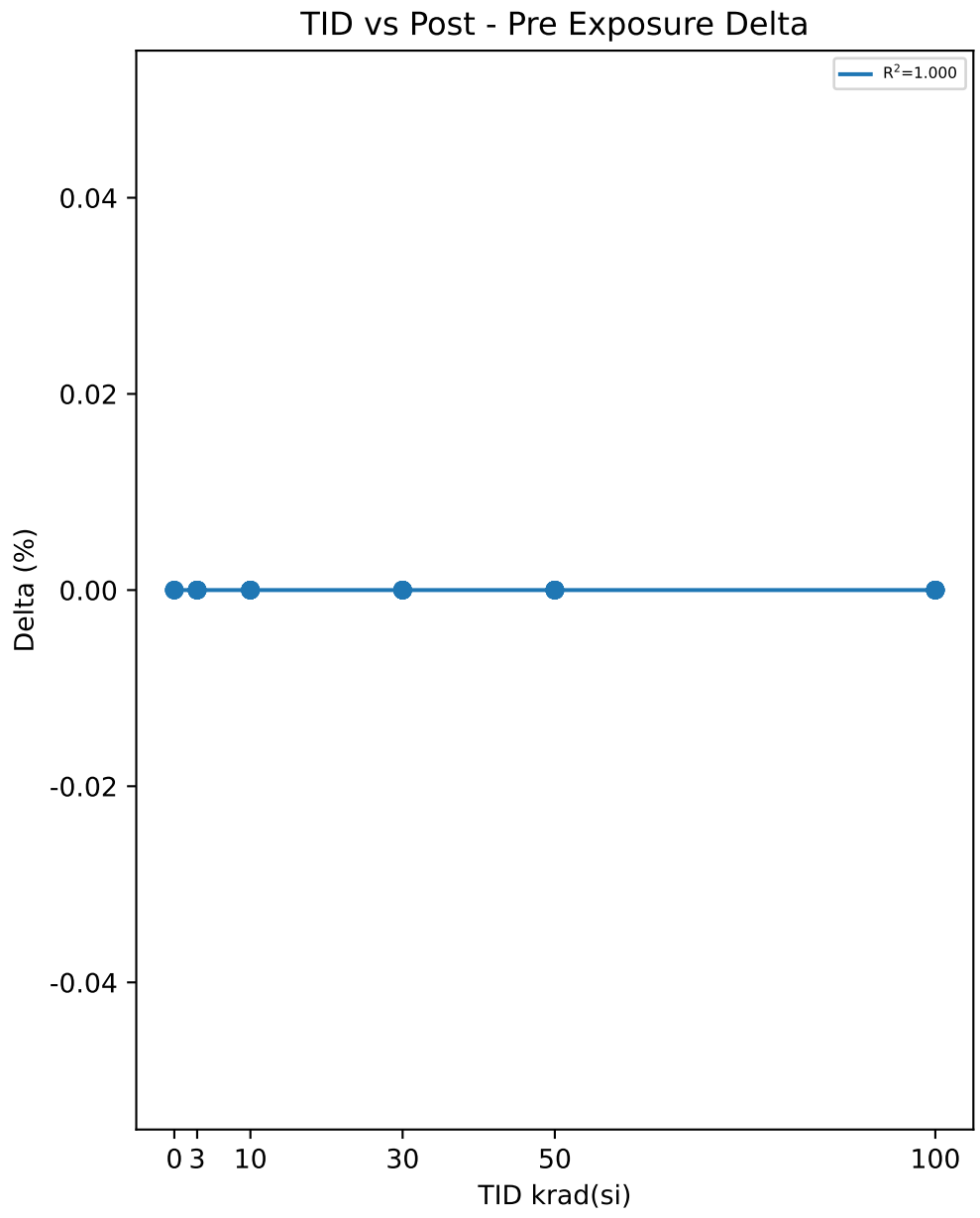
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.12 LEVEL|WRST_MAX/OUT/14/14/0/0/5/200kHz//@MAX_DCL_100





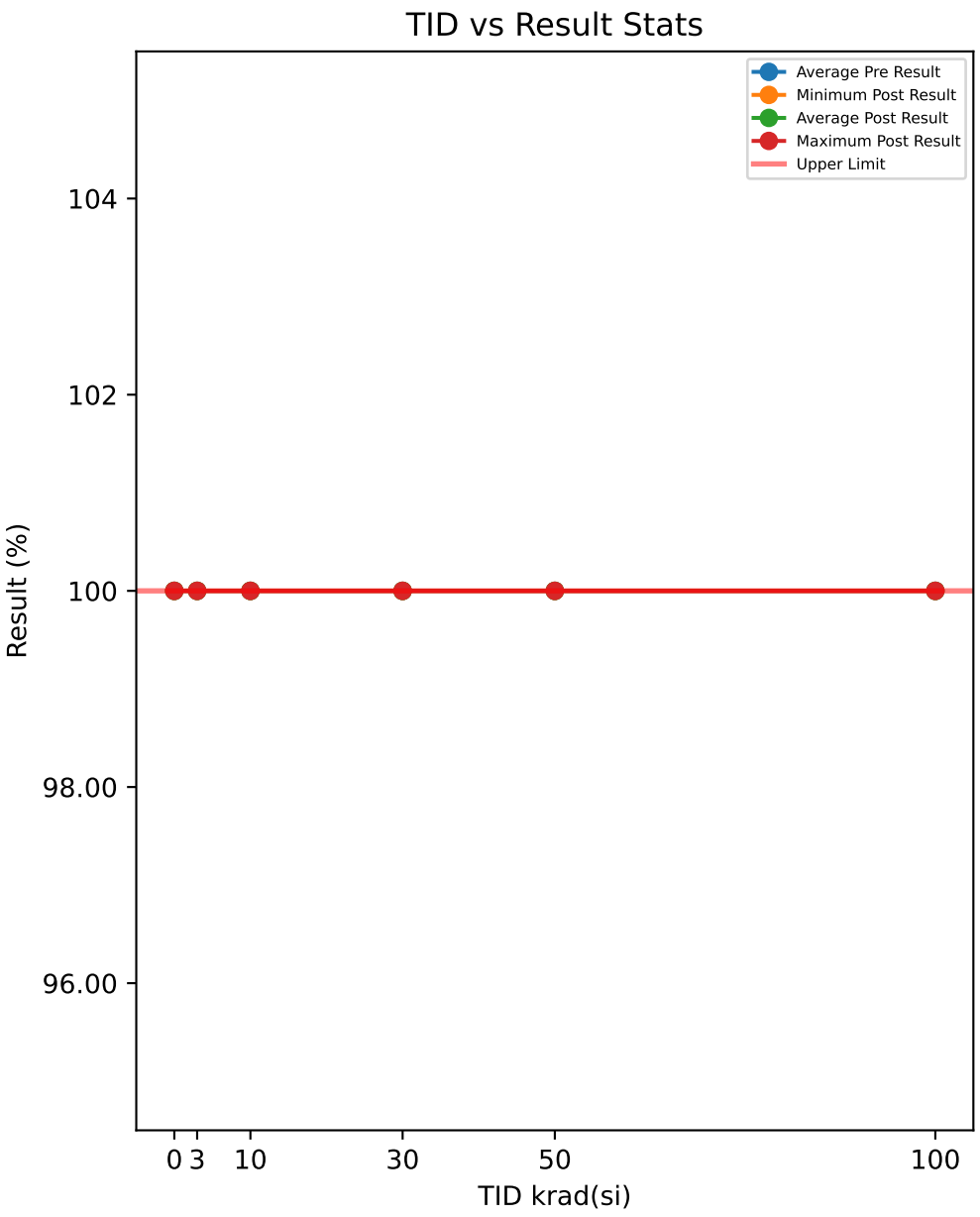
Test Results (Upper Limit = 100.0 (%))

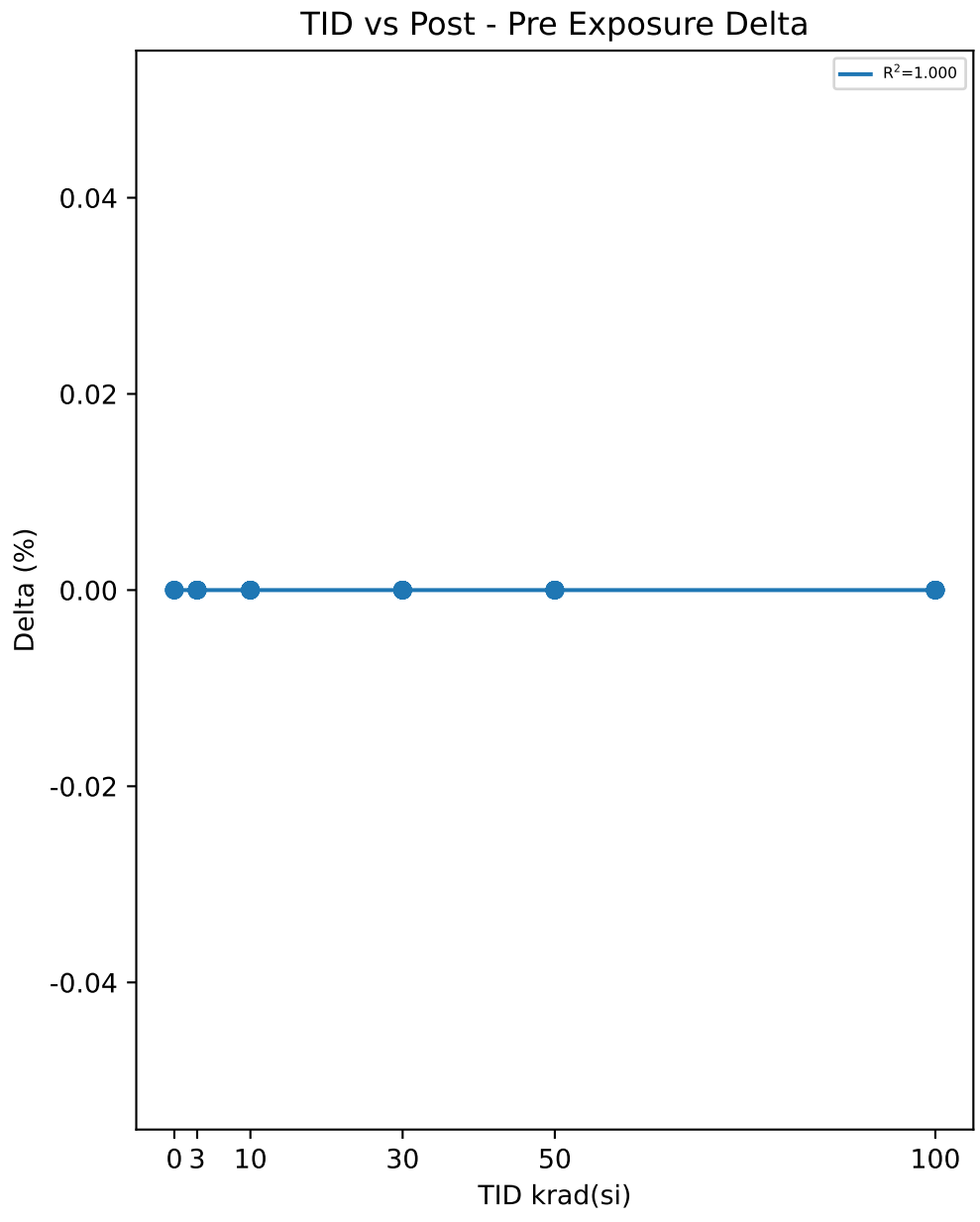
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.13 LEVEL|WRST_MAX/OUT/12/12/0/0/5/500kHz//@MAX_DCL_100





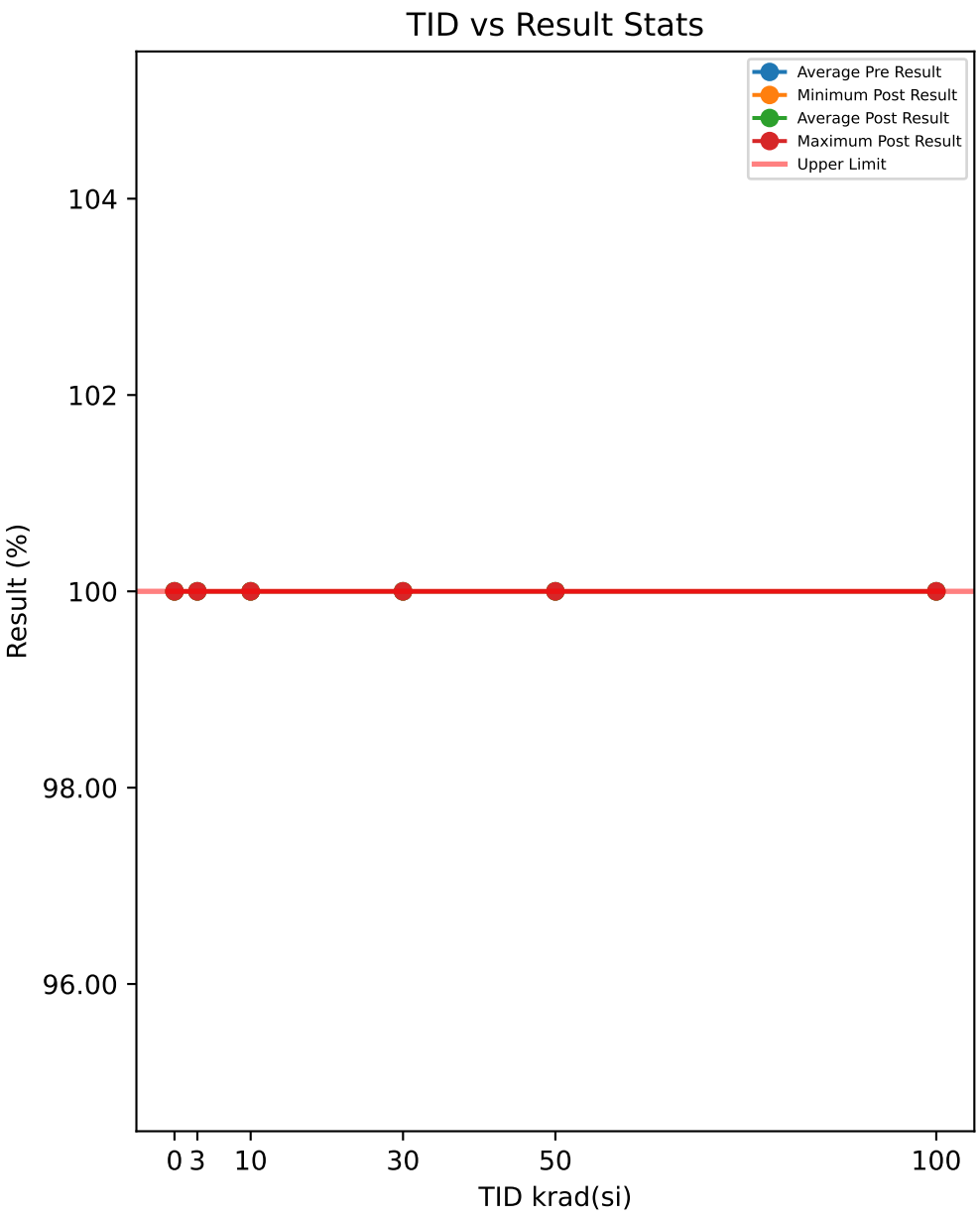
Test Results (Upper Limit = 100.0 (%))

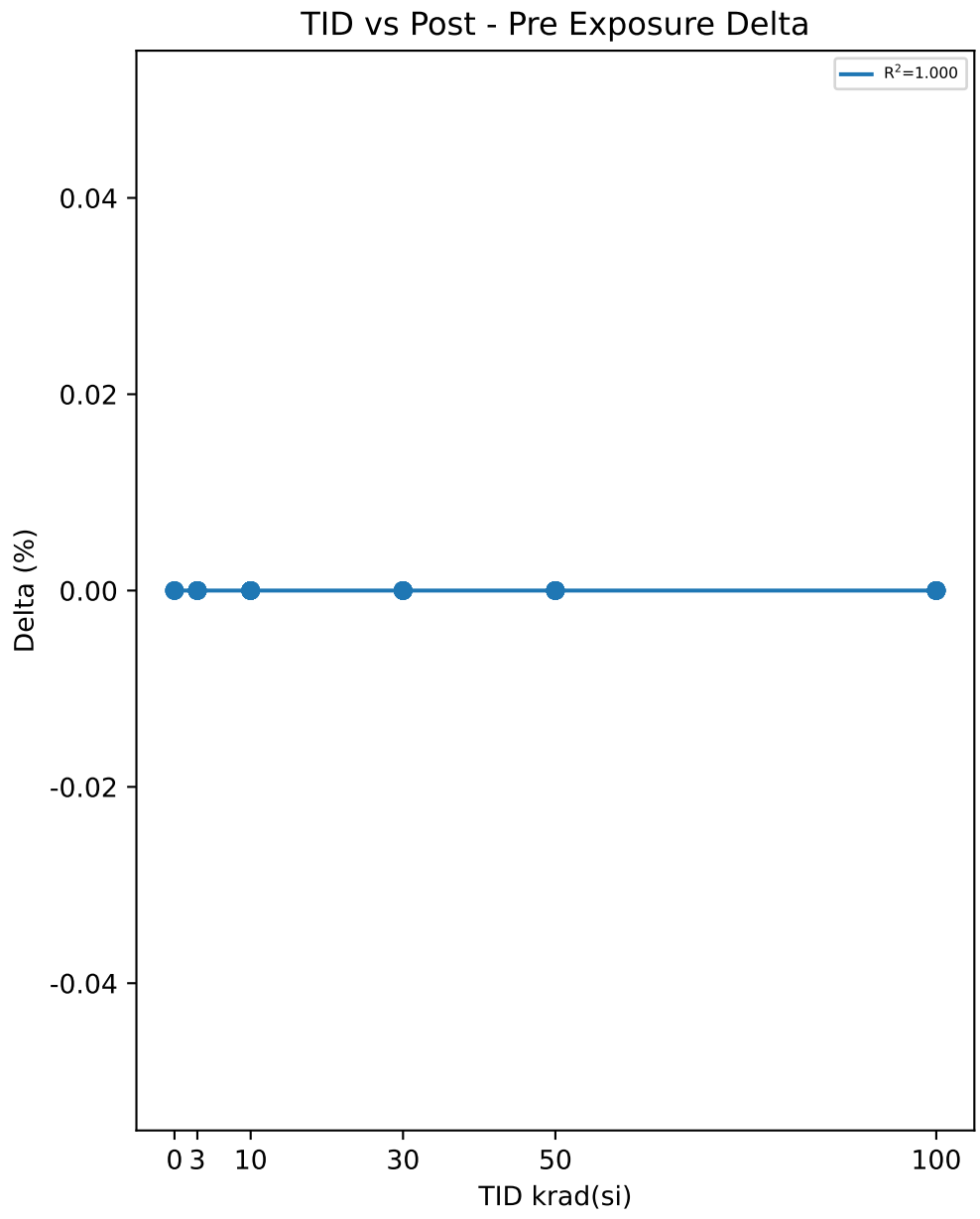
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.14 LEVEL|WRST_MAX/OUT/14/14/0/0/5/500kHz//@MAX_DCL_100





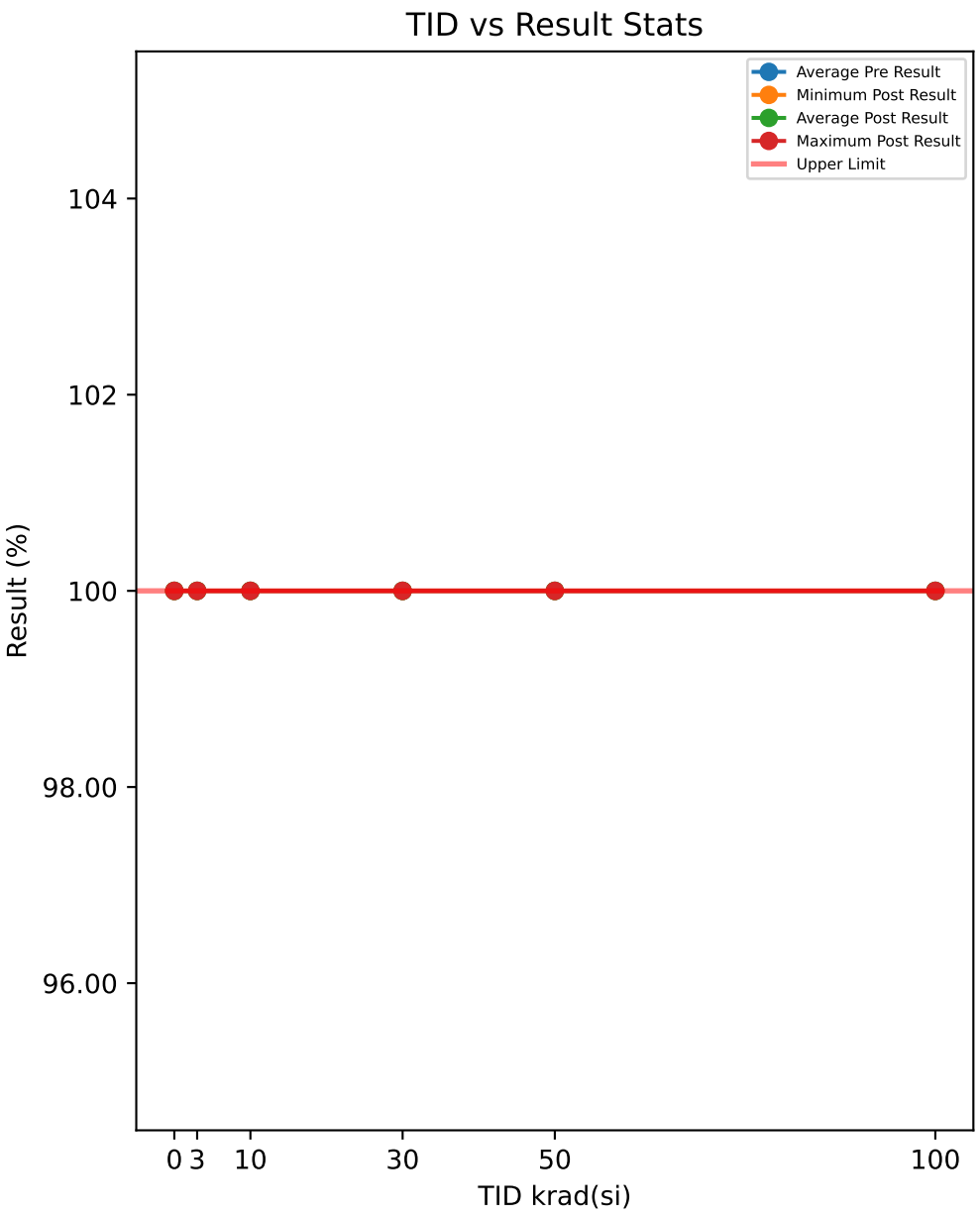
Test Results (Upper Limit = 100.0 (%))

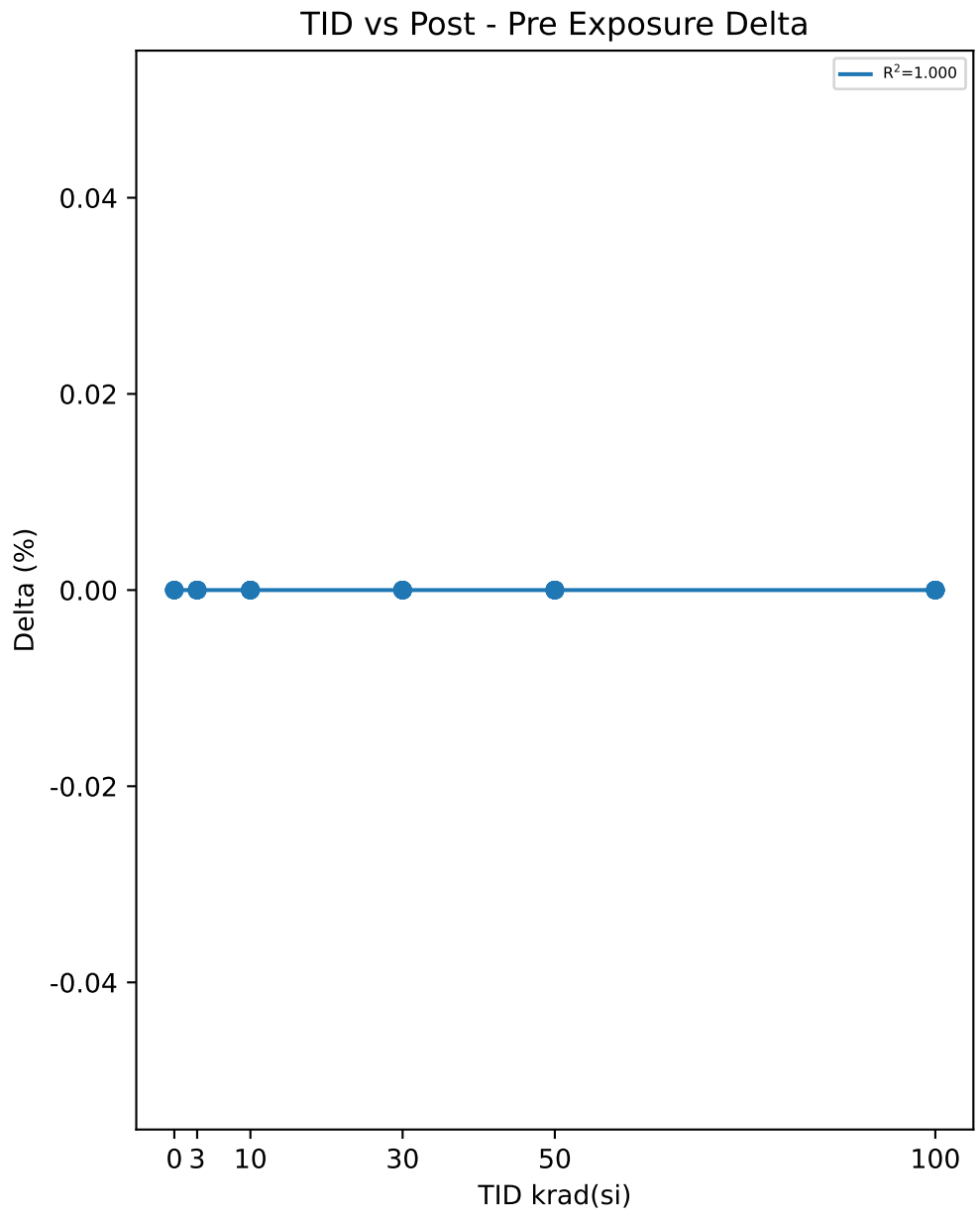
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.15 LEVEL|DCL/OUT/8/8/0/0/5/100kHz//@MAX_DCL_100





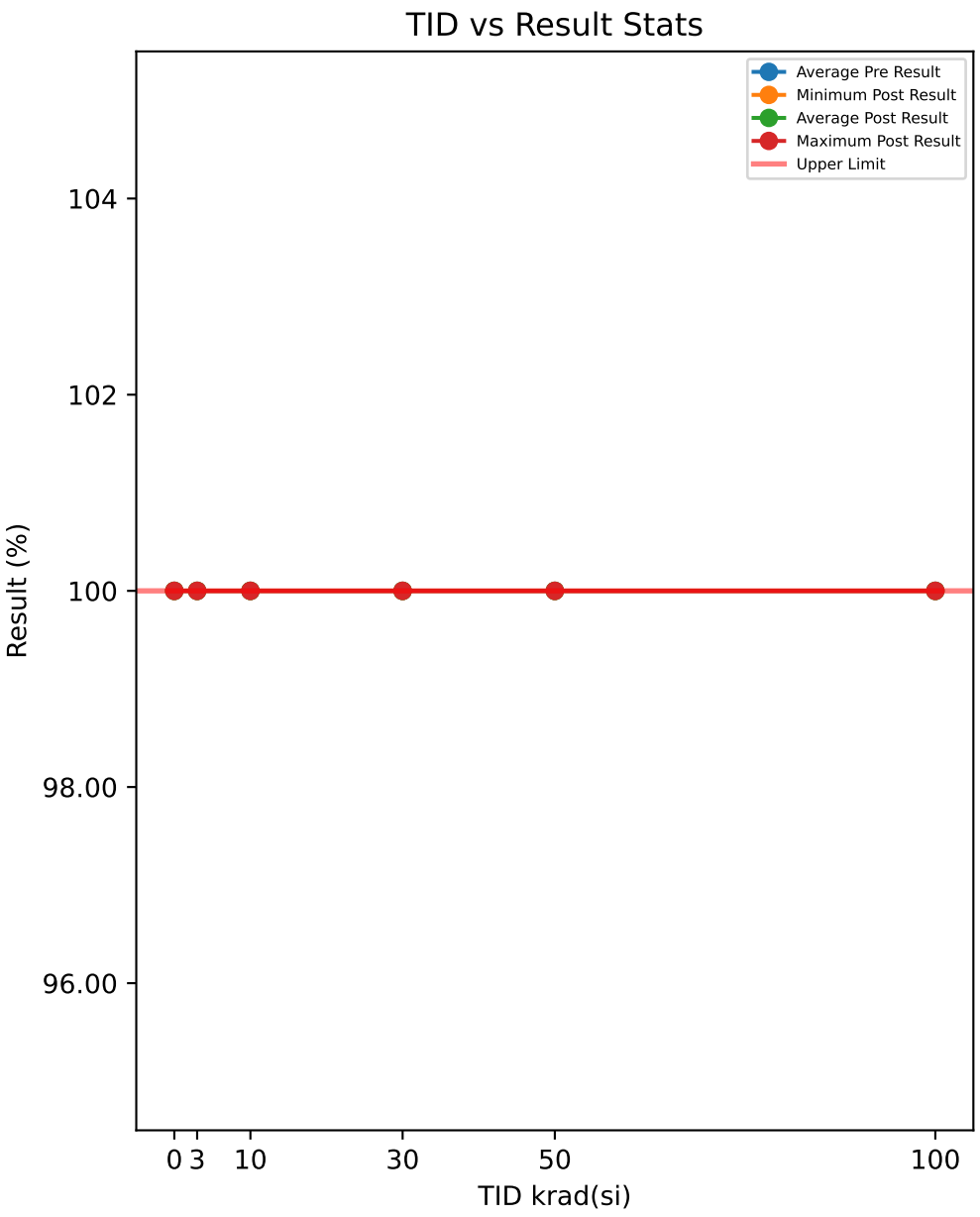
Test Results (Upper Limit = 100.0 (%))

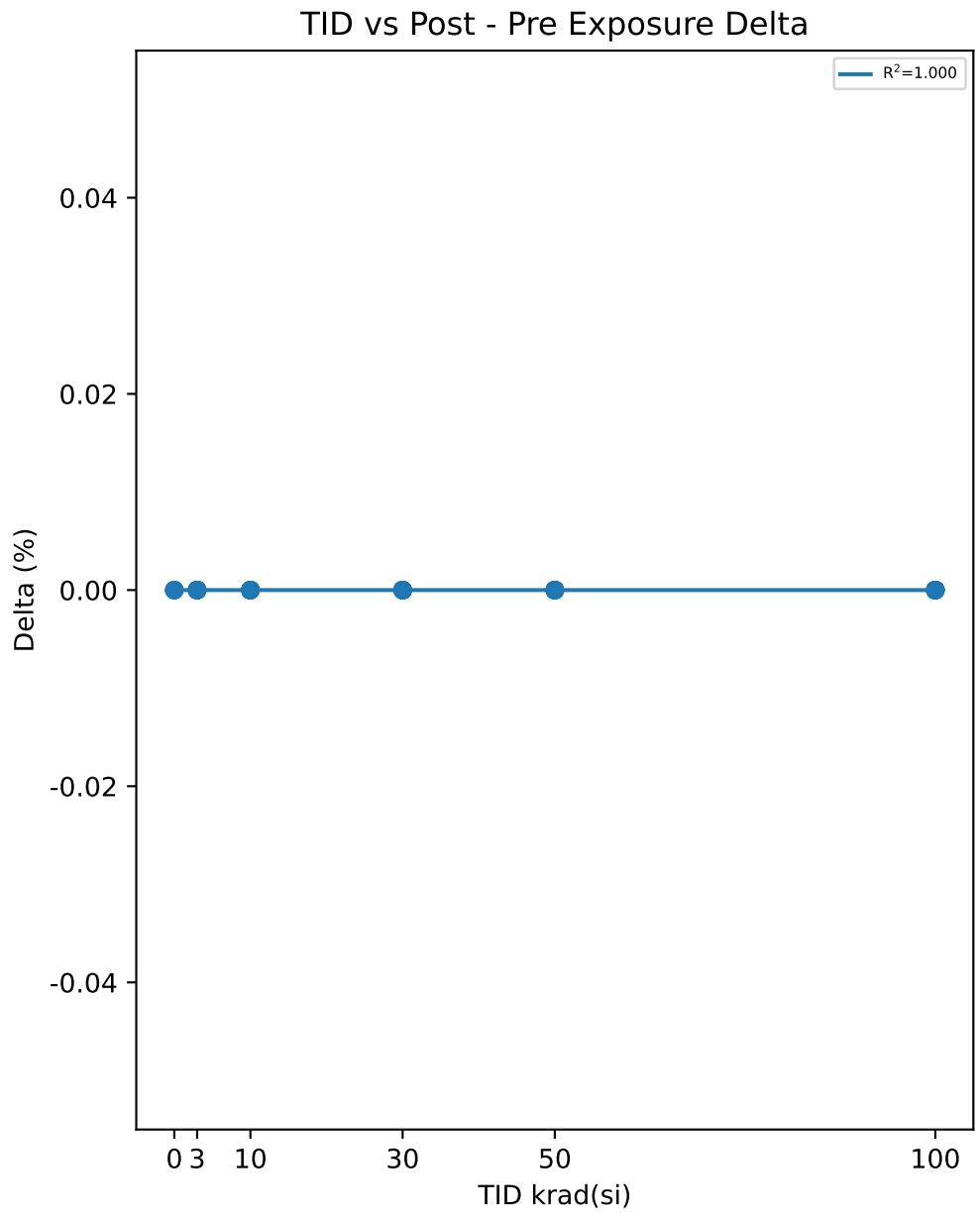
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.16 LEVEL|DCL/OUT/8/8/0/0/5/200kHz//@MAX_DCL_100





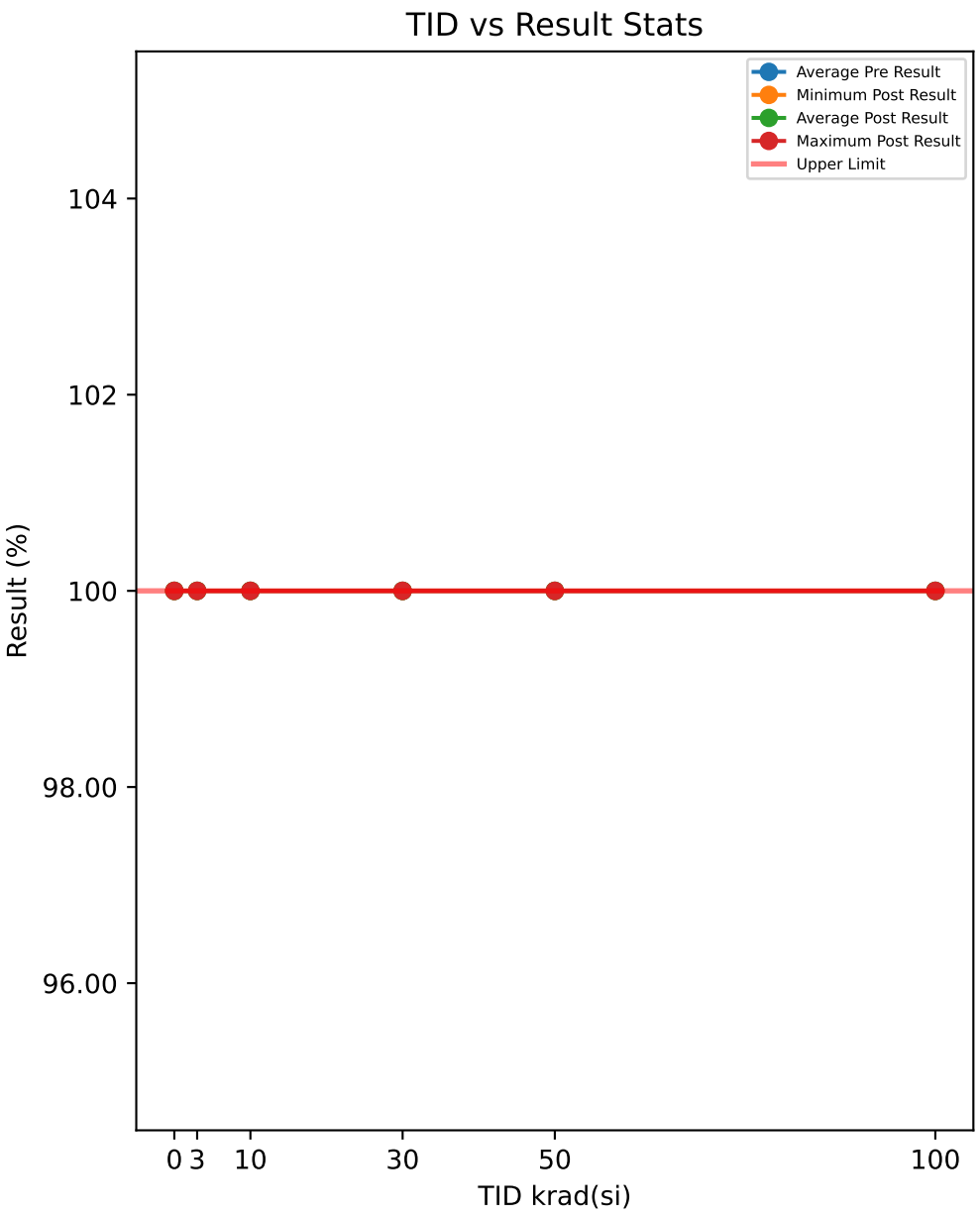
Test Results (Upper Limit = 100.0 (%))

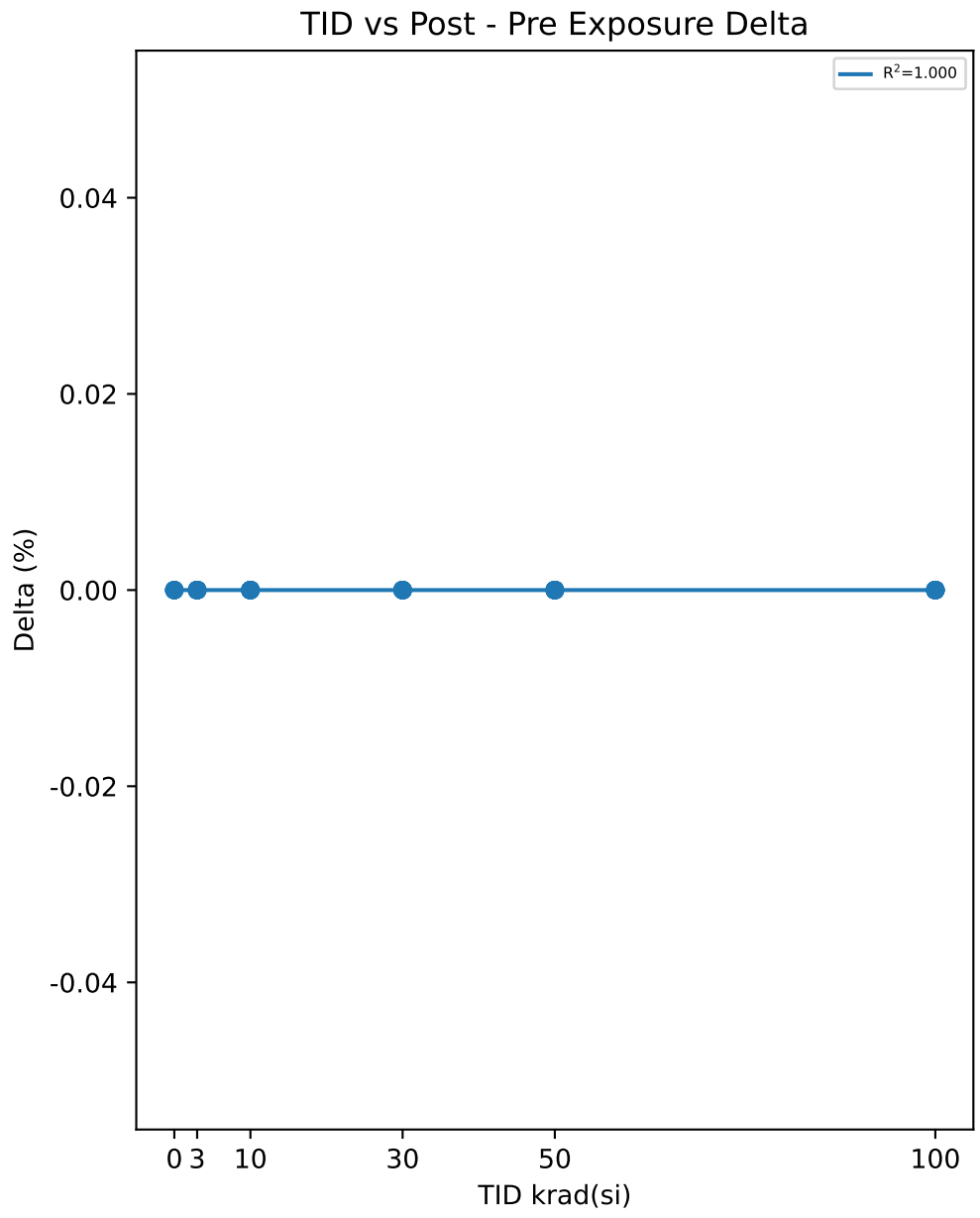
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.17 LEVEL|DCL/OUT/8/8/0/0/5/500kHz//@MAX_DCL_100





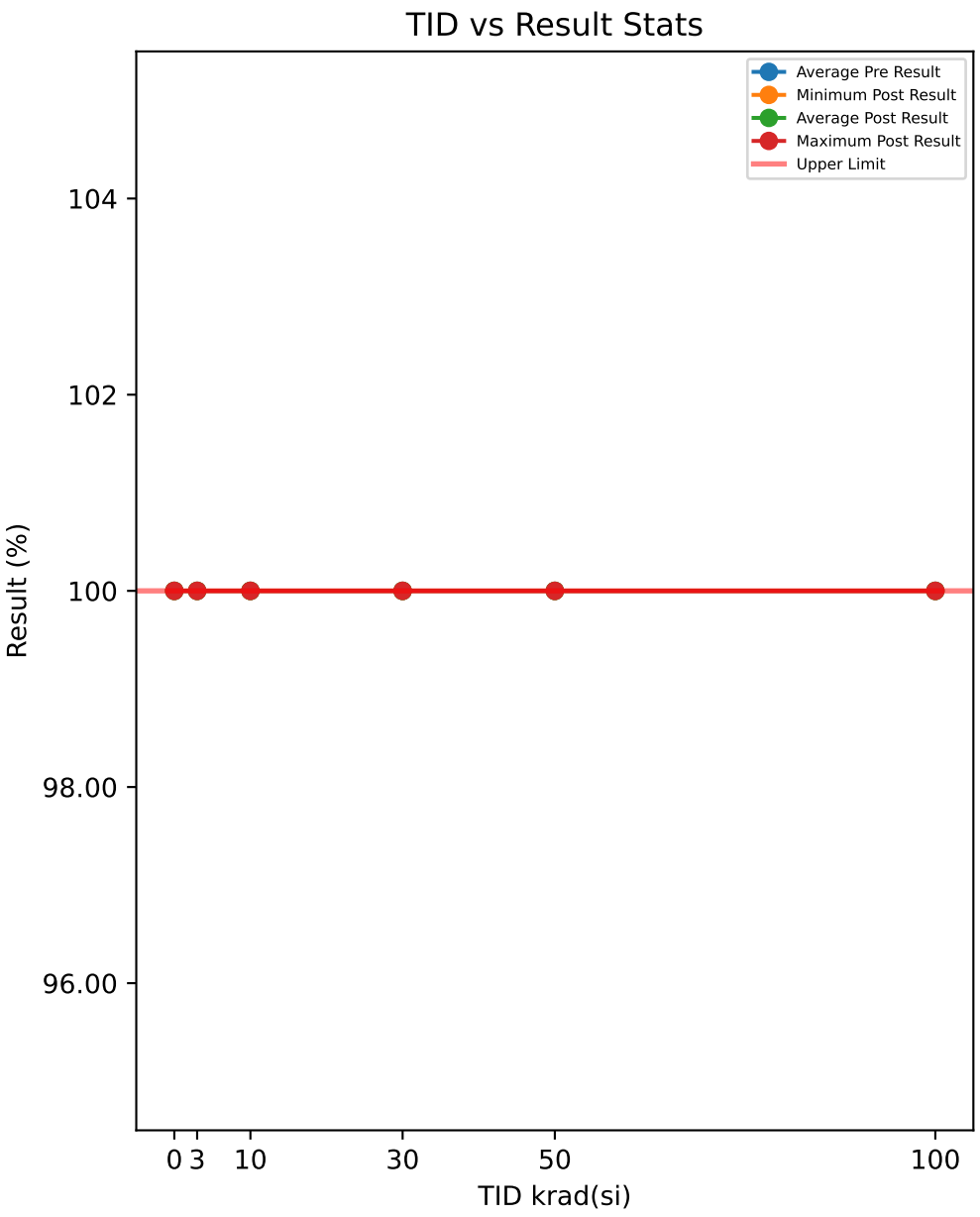
Test Results (Upper Limit = 100.0 (%))

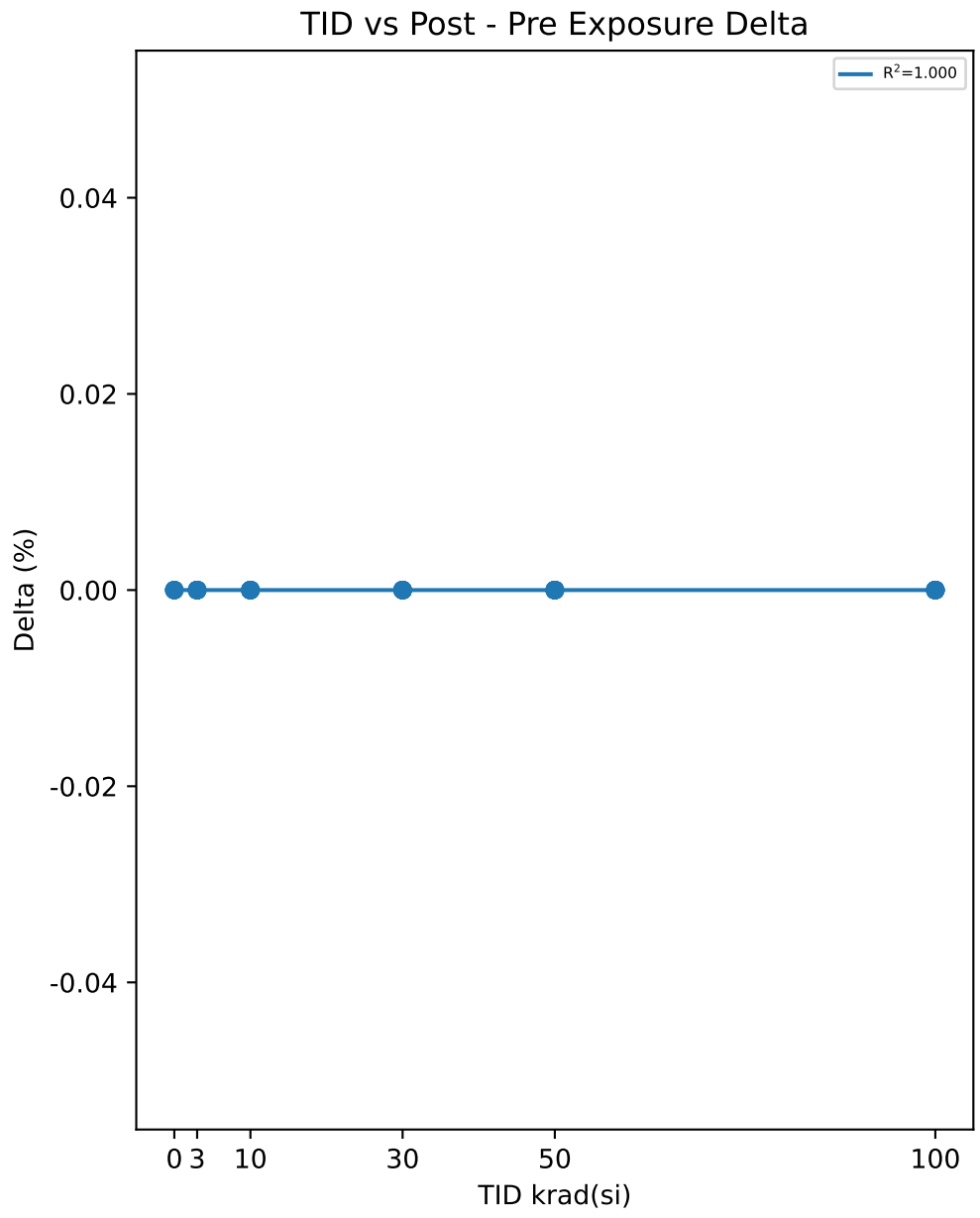
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.18 LEVEL|WRST_MAX/OUT/8/8/0/0/5/100kHz//@MAX_DCL_100





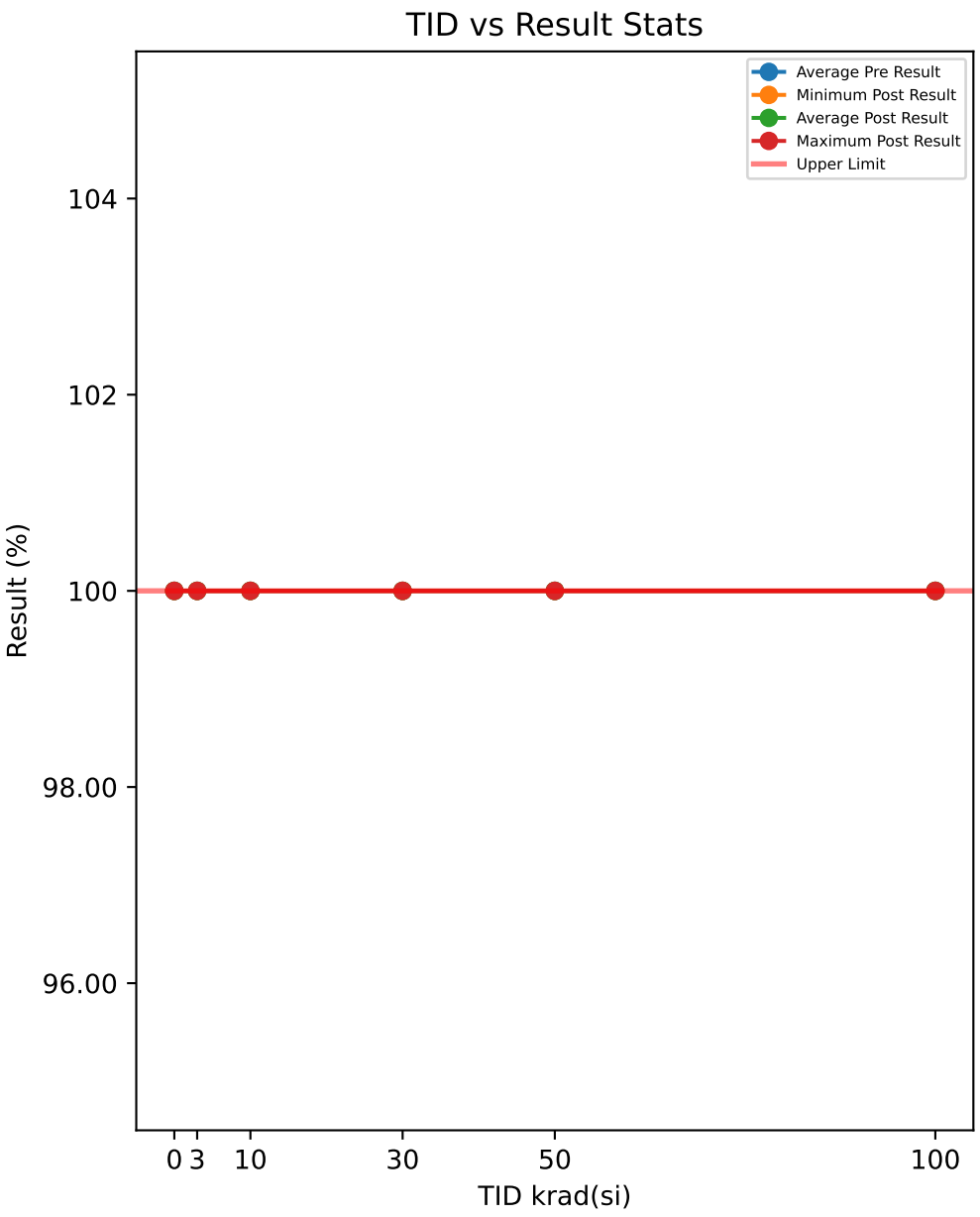
Test Results (Upper Limit = 100.0 (%))

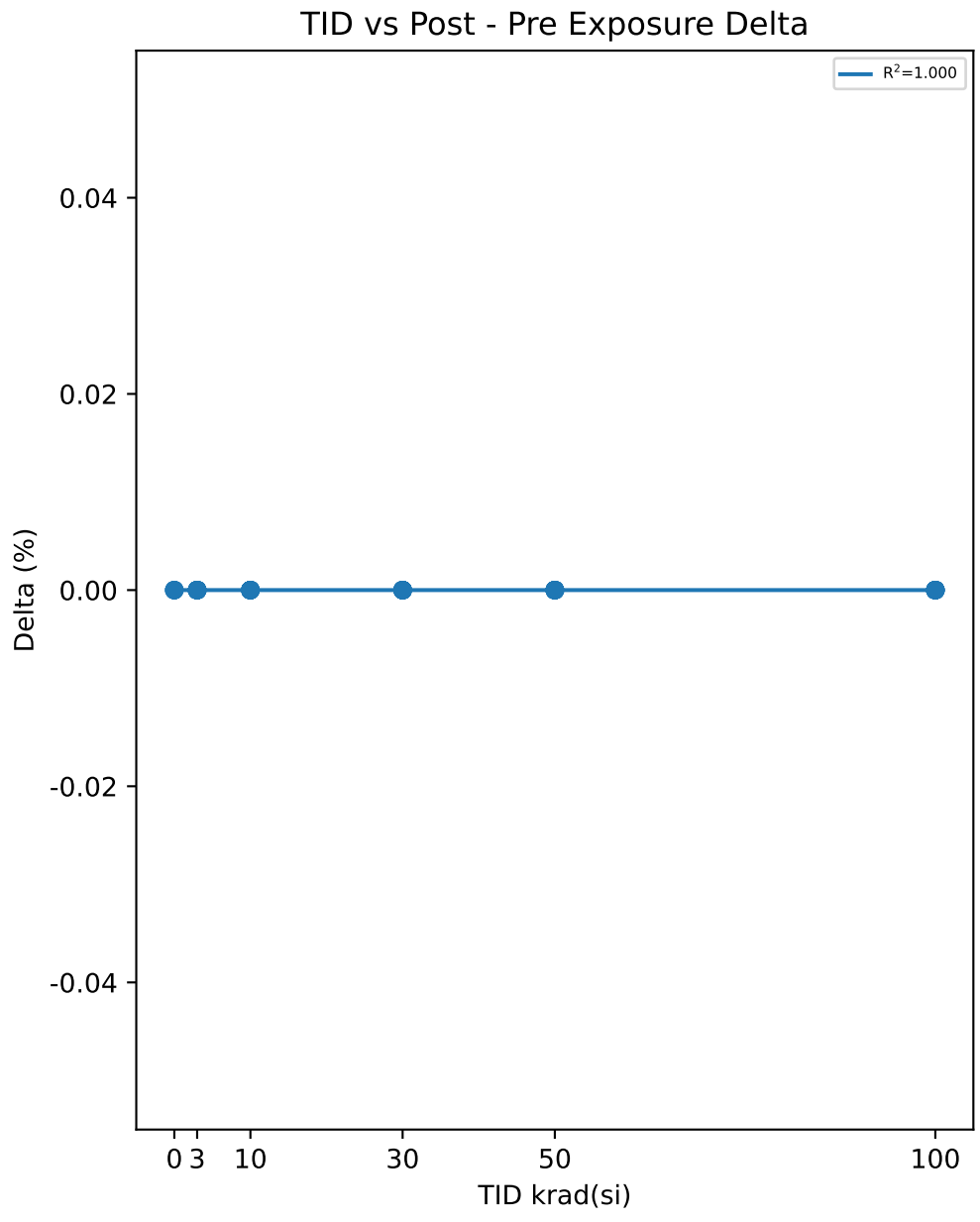
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.19 LEVEL|WRST_MAX/OUT/8/8/0/0/5/200kHz//@MAX_DCL_100





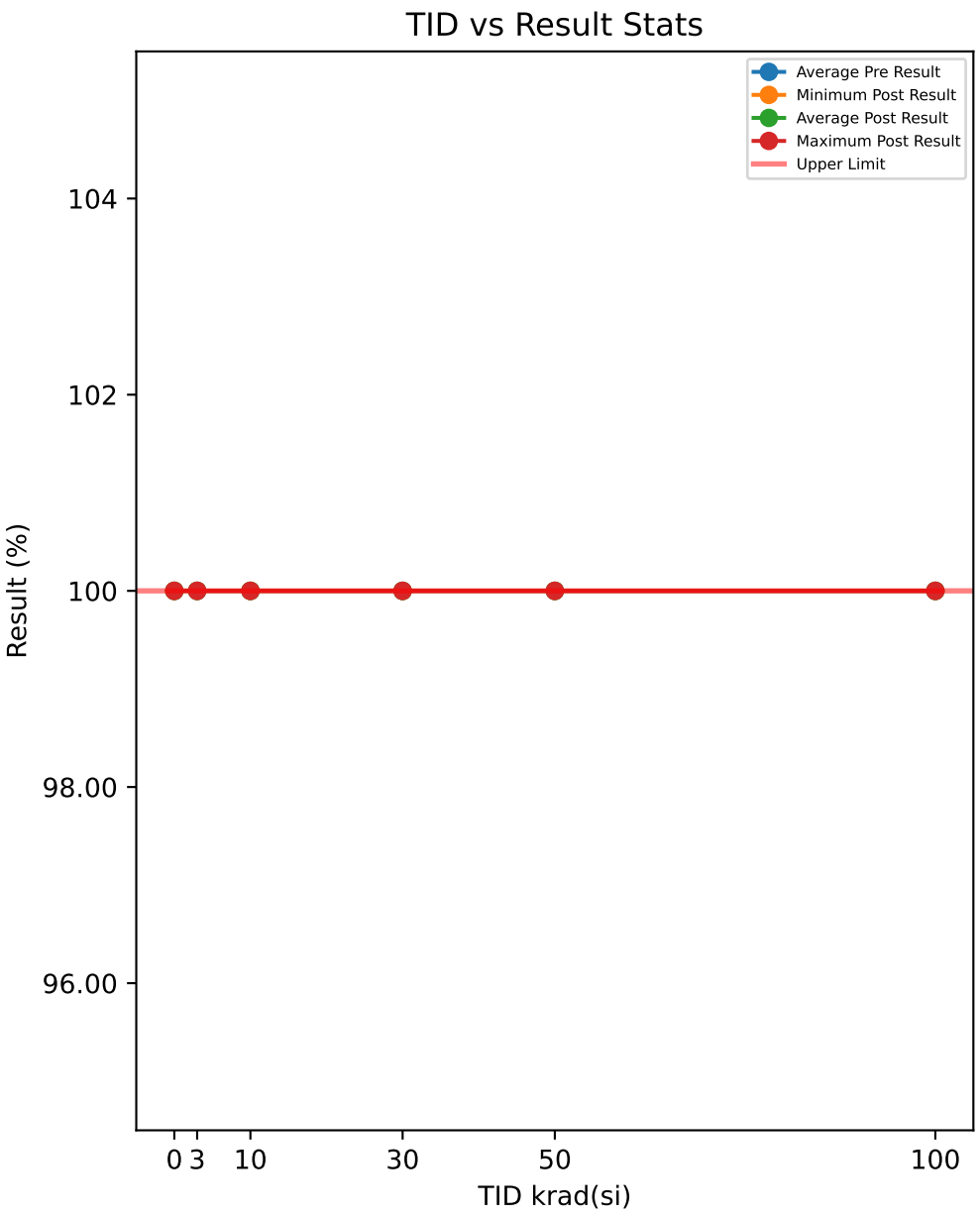
Test Results (Upper Limit = 100.0 (%))

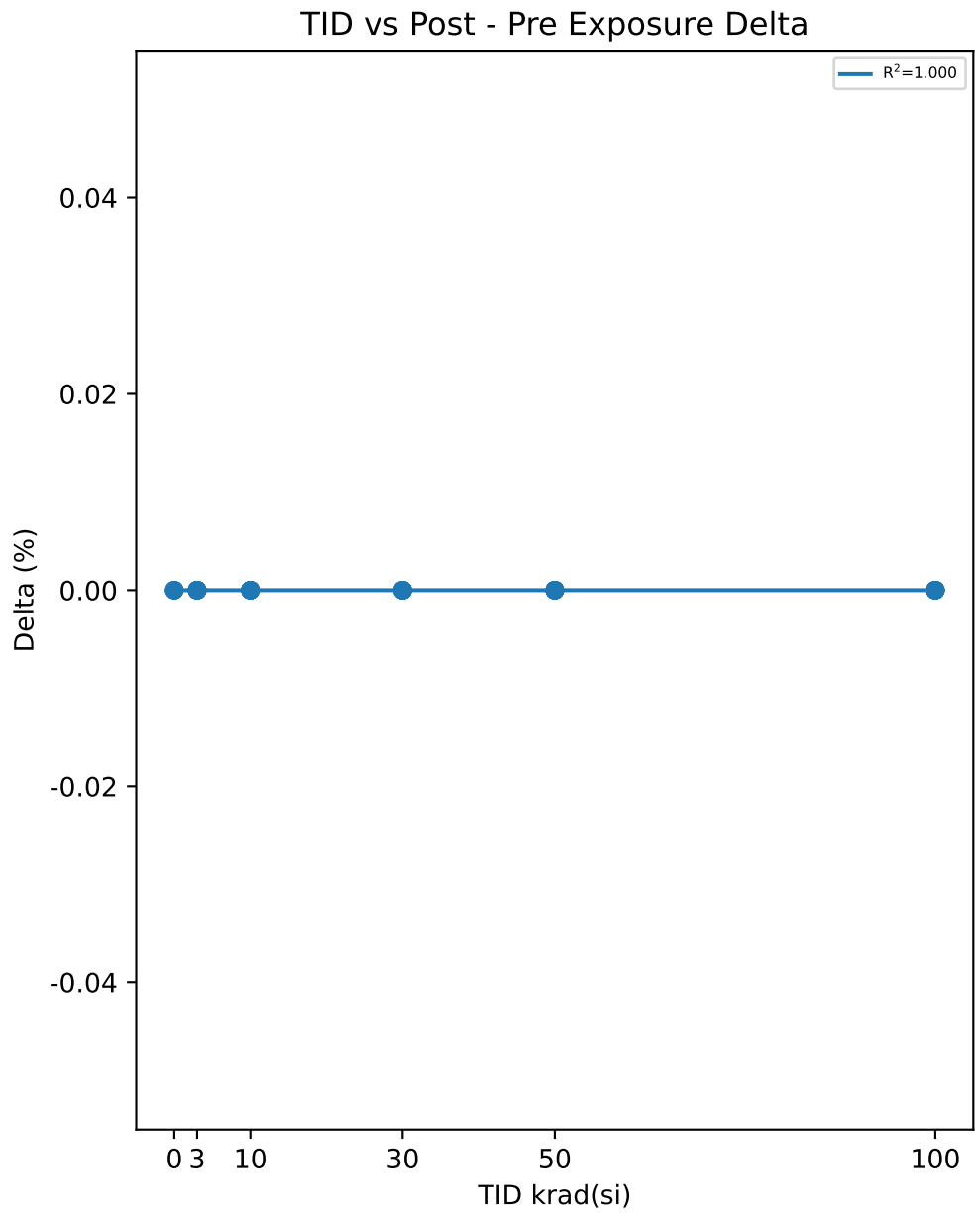
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.20 LEVEL|WRST_MAX/OUT/8/8/0/0/5/500kHz//@MAX_DCL_100





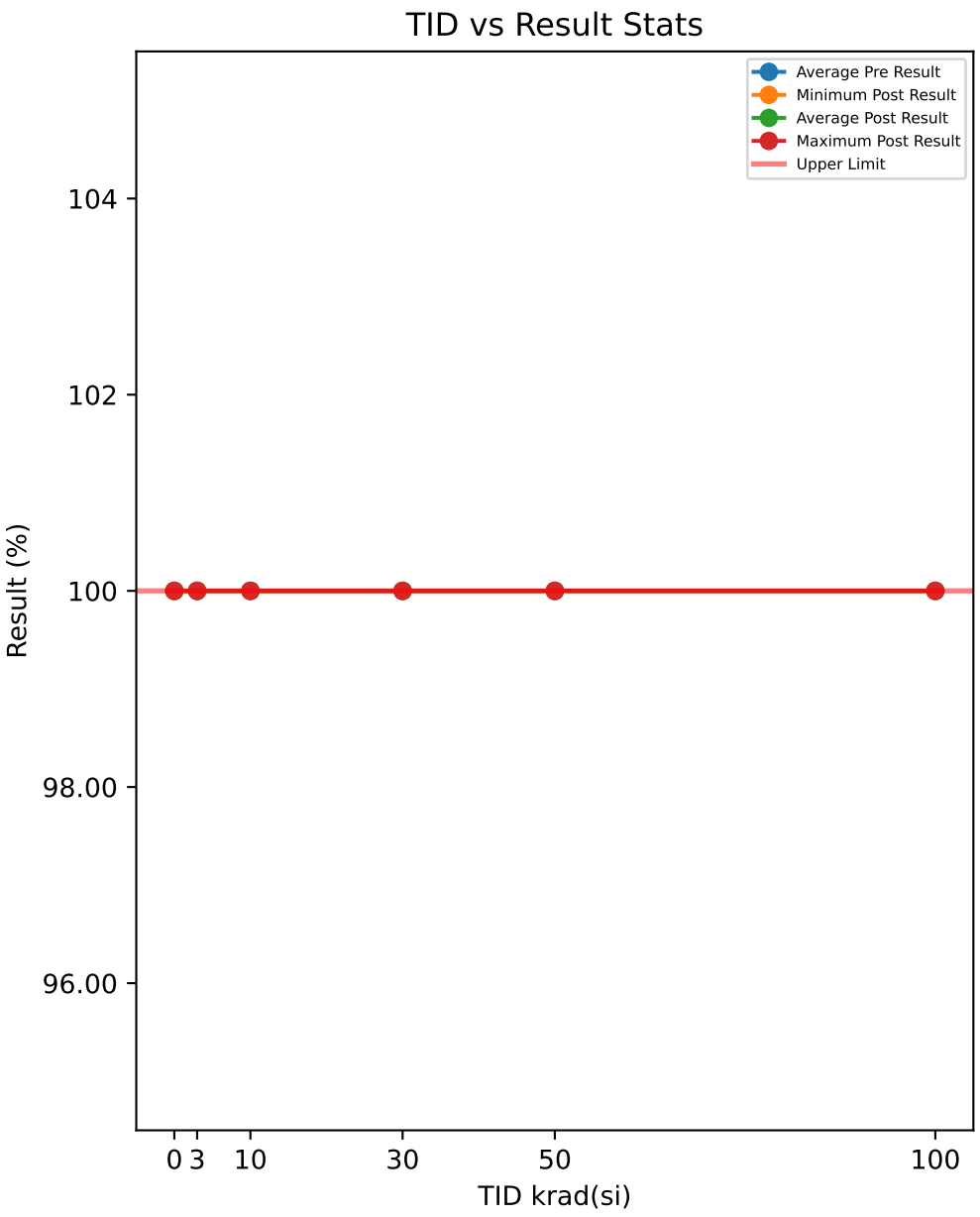
Test Results (Upper Limit = 100.0 (%))

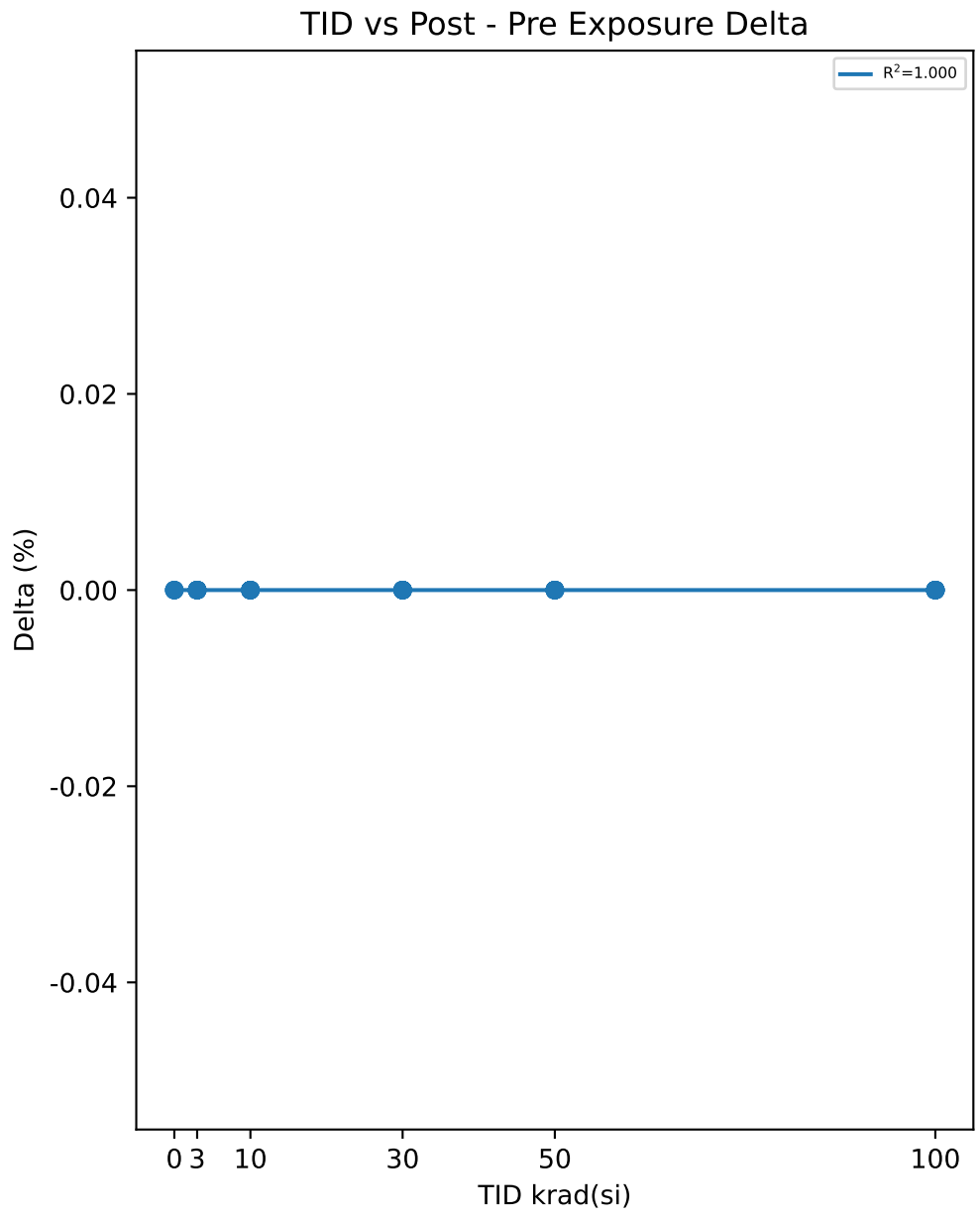
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.3 LEVEL|DCL/OUT/12/12/0/0/5/100kHz//@MAX_DCL_100





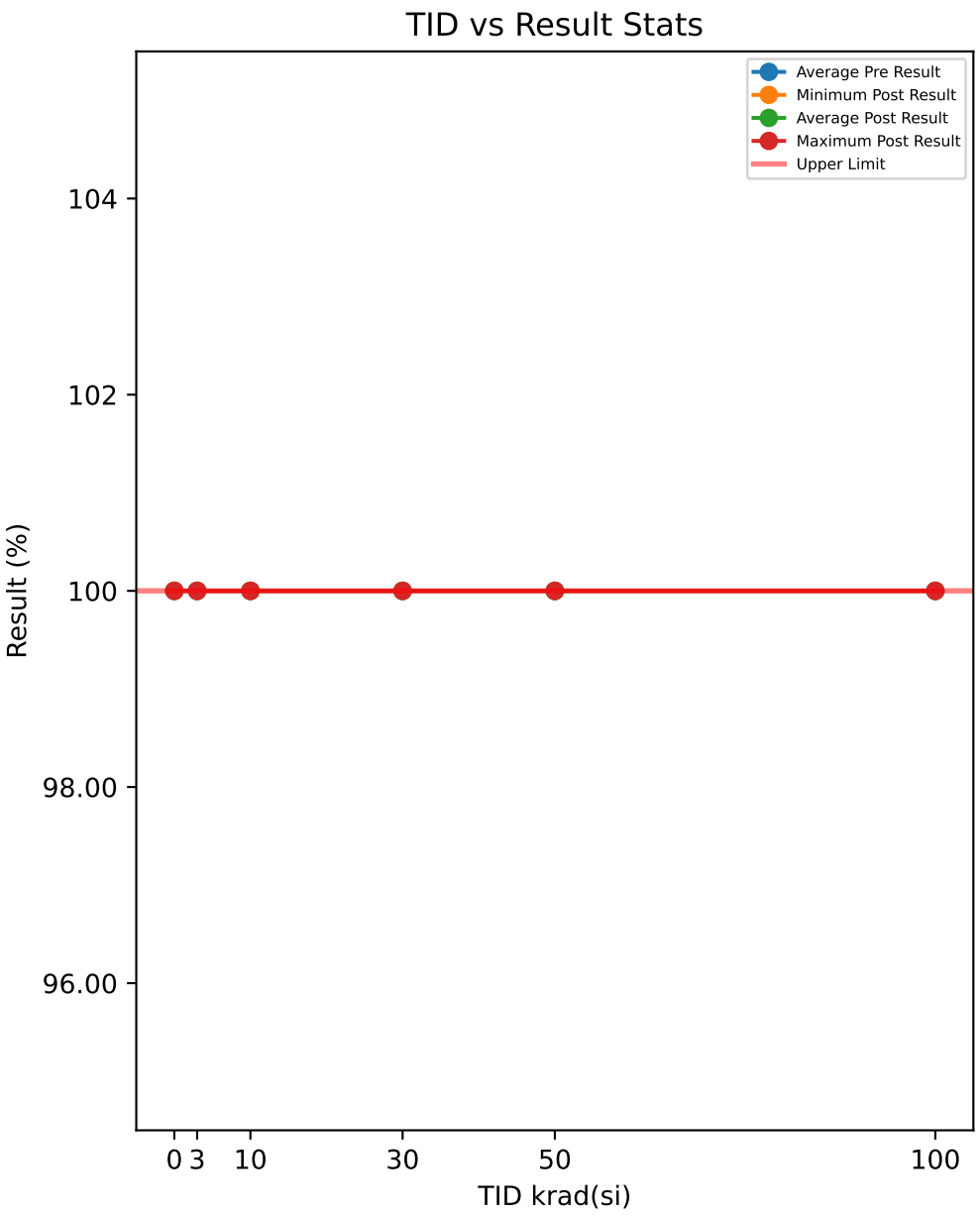
Test Results (Upper Limit = 100.0 (%))

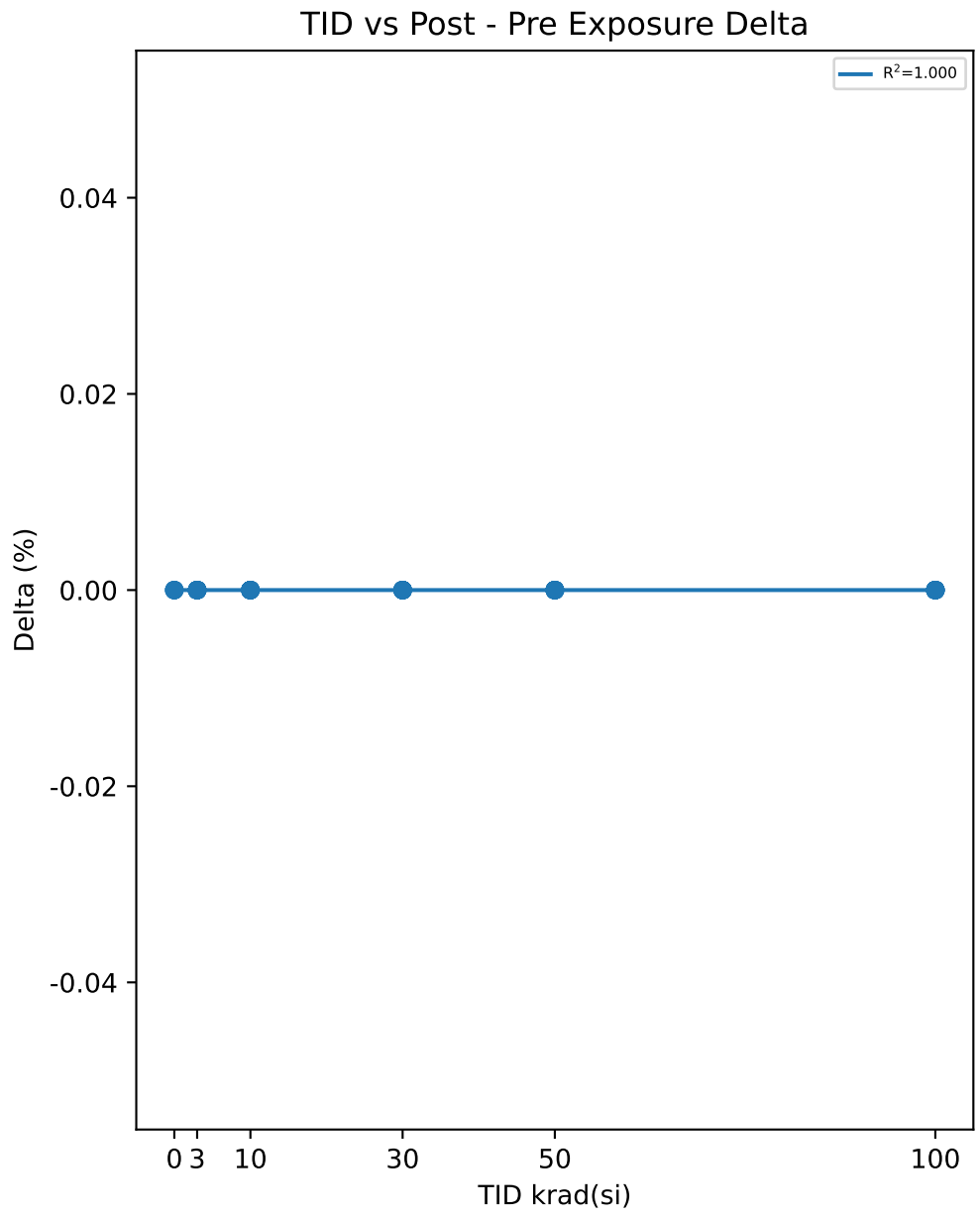
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.4 LEVEL|DCL/OUT/14/14/0/0/5/100kHz//@MAX_DCL_100





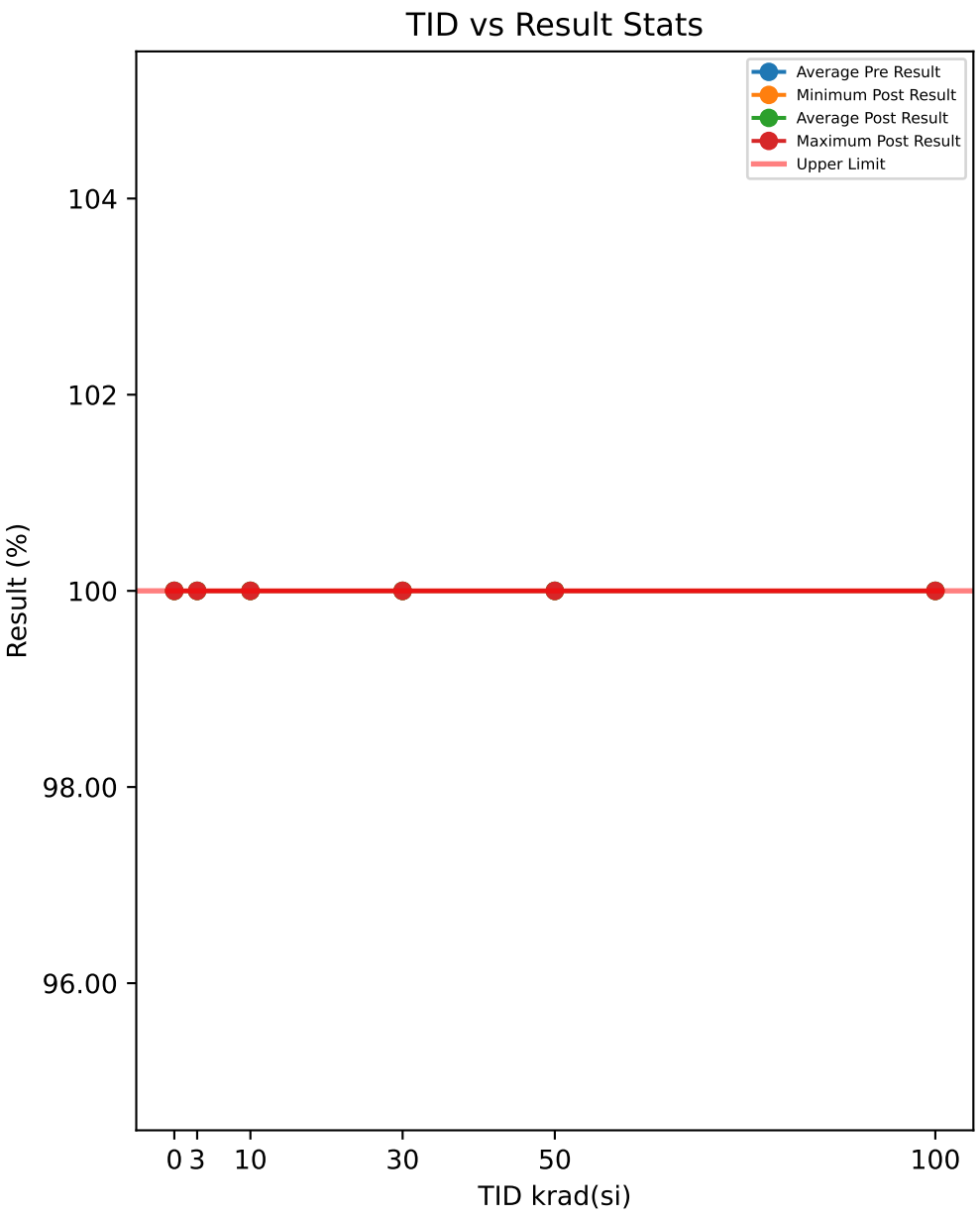
Test Results (Upper Limit = 100.0 (%))

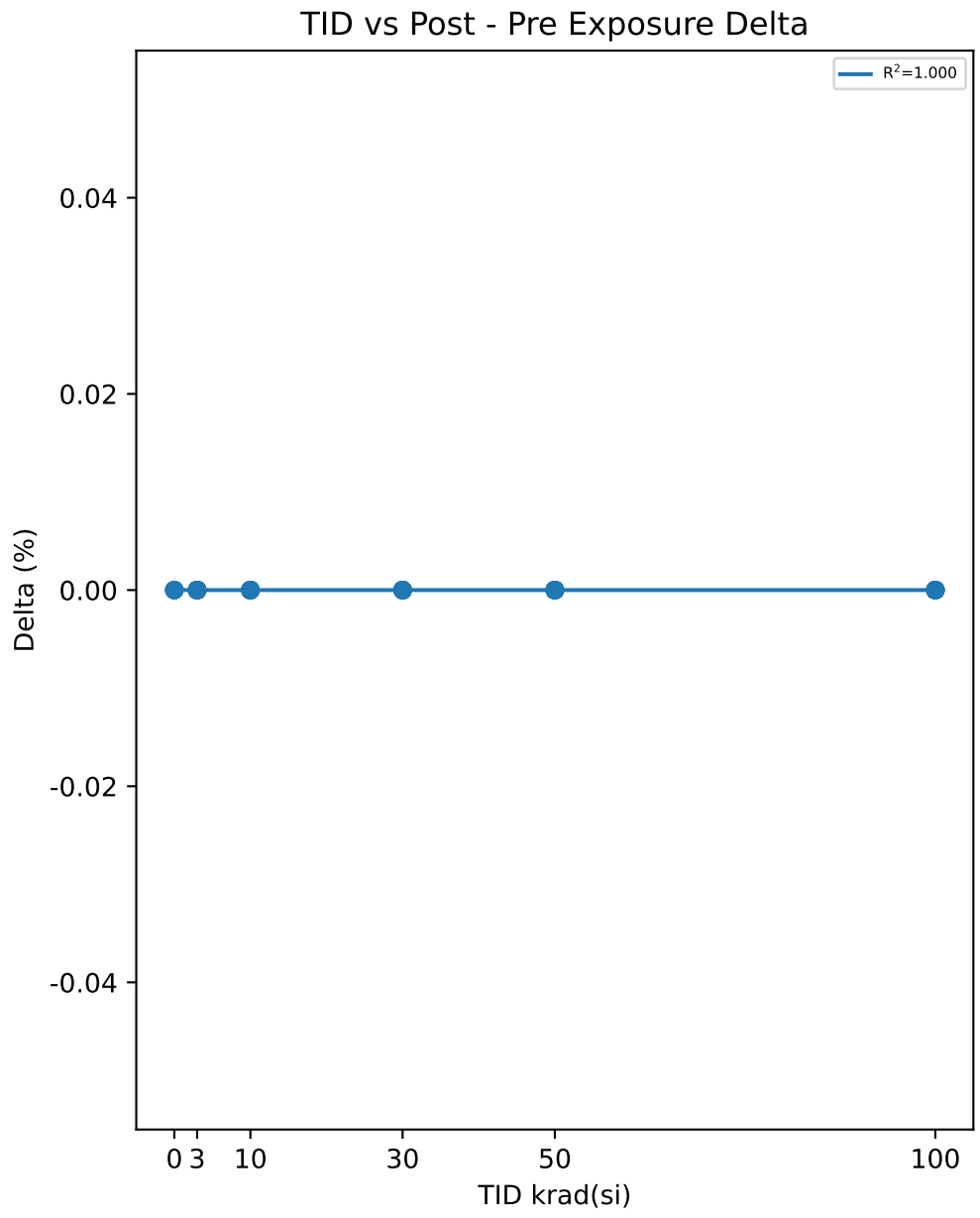
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.5 LEVEL|DCL/OUT/12/12/0/0/5/200kHz//@MAX_DCL_100





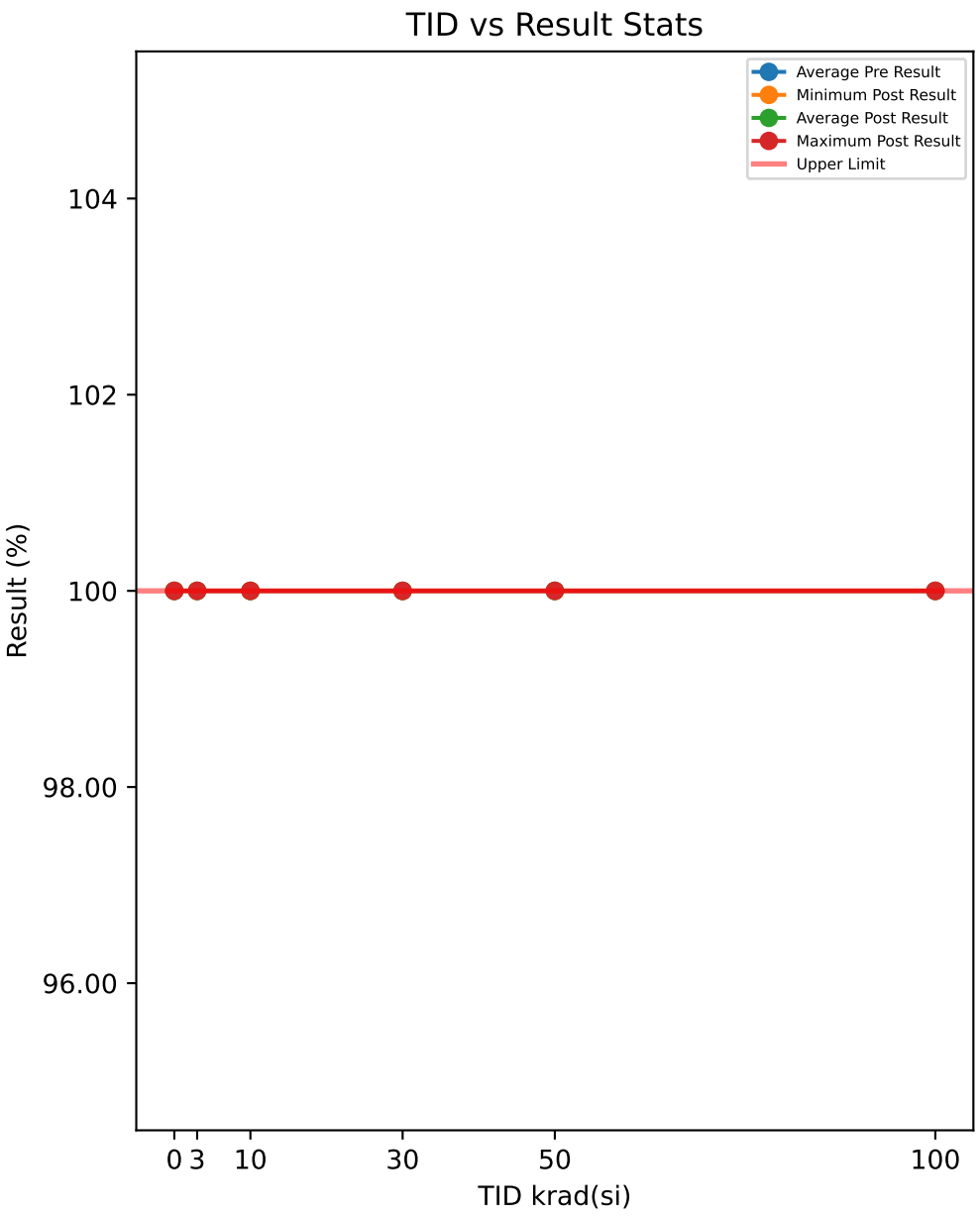
Test Results (Upper Limit = 100.0 (%))

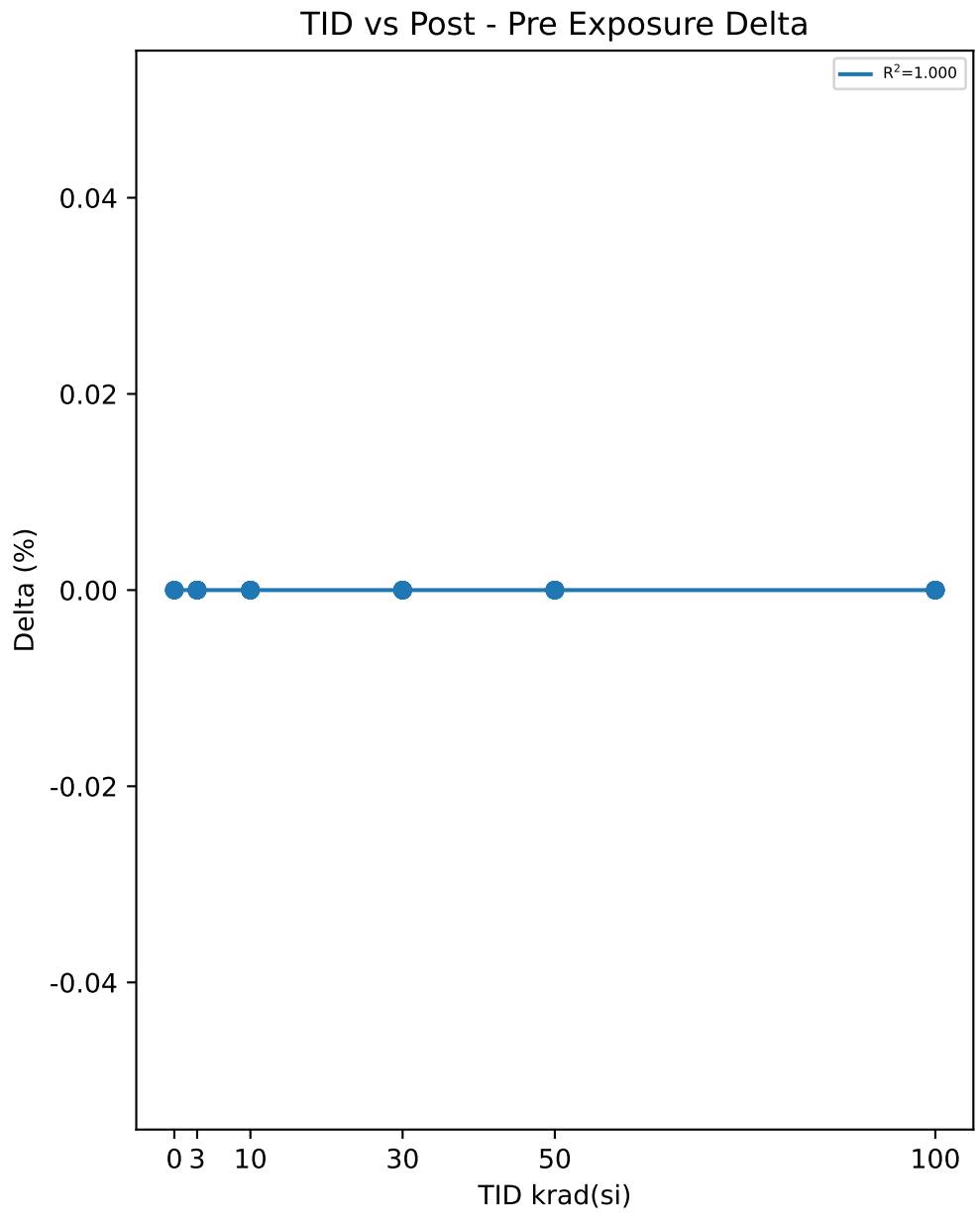
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.6 LEVEL|DCL/OUT/14/14/0/0/5/200kHz//@MAX_DCL_100





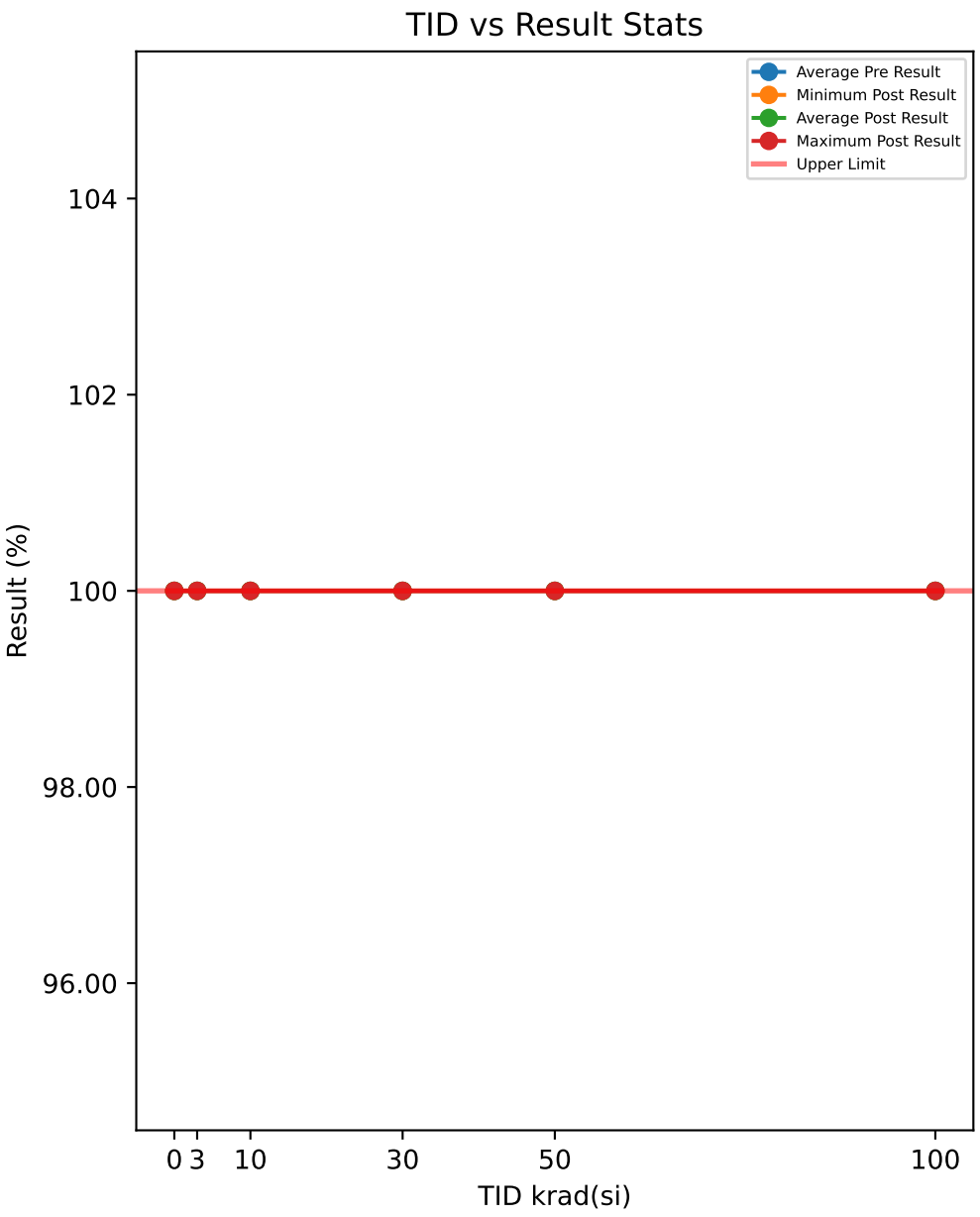
Test Results (Upper Limit = 100.0 (%))

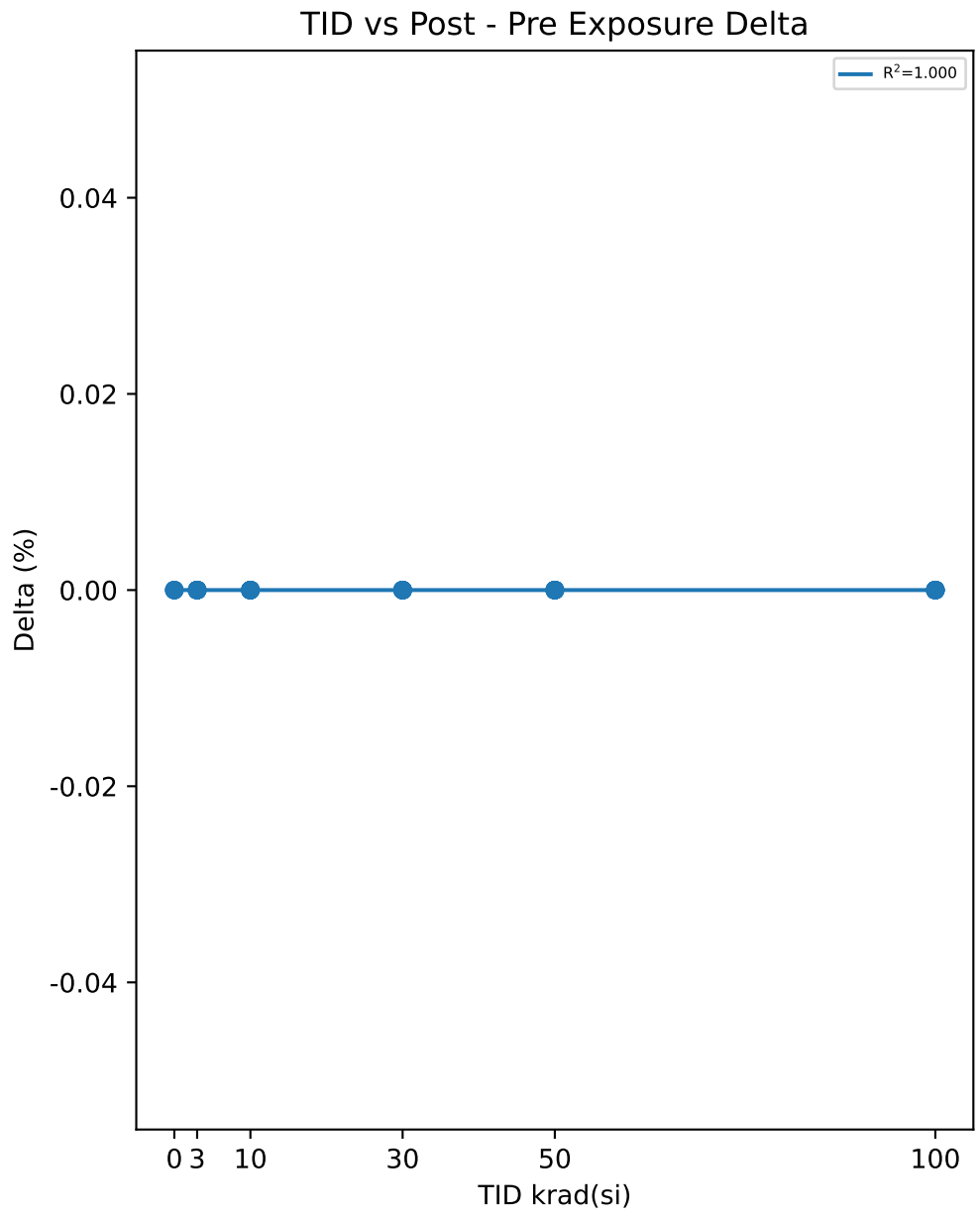
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.7 LEVEL|DCL/OUT/12/12/0/0/5/500kHz//@MAX_DCL_100





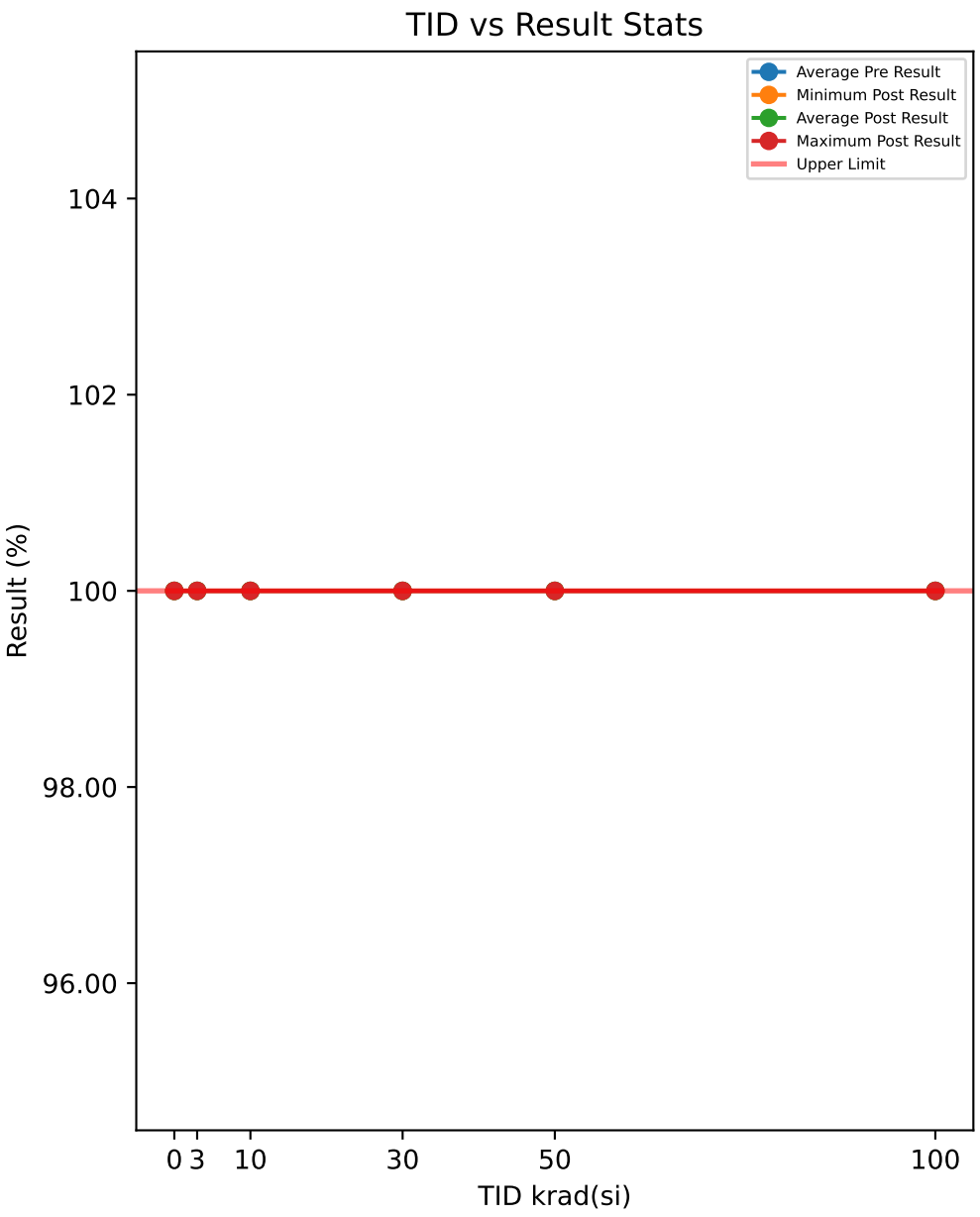
Test Results (Upper Limit = 100.0 (%))

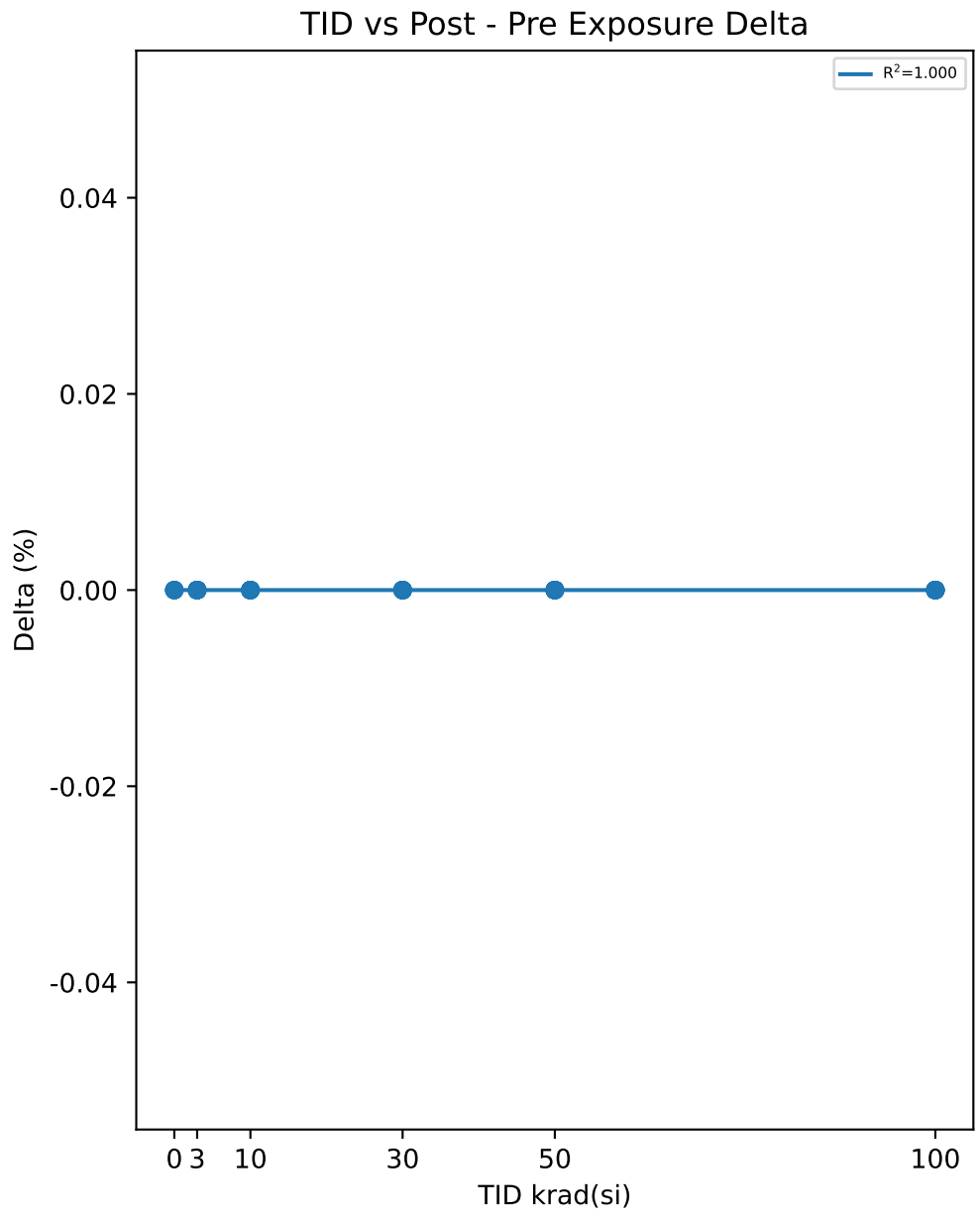
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.8 LEVEL|DCL/OUT/14/14/0/0/5/500kHz//@MAX_DCL_100





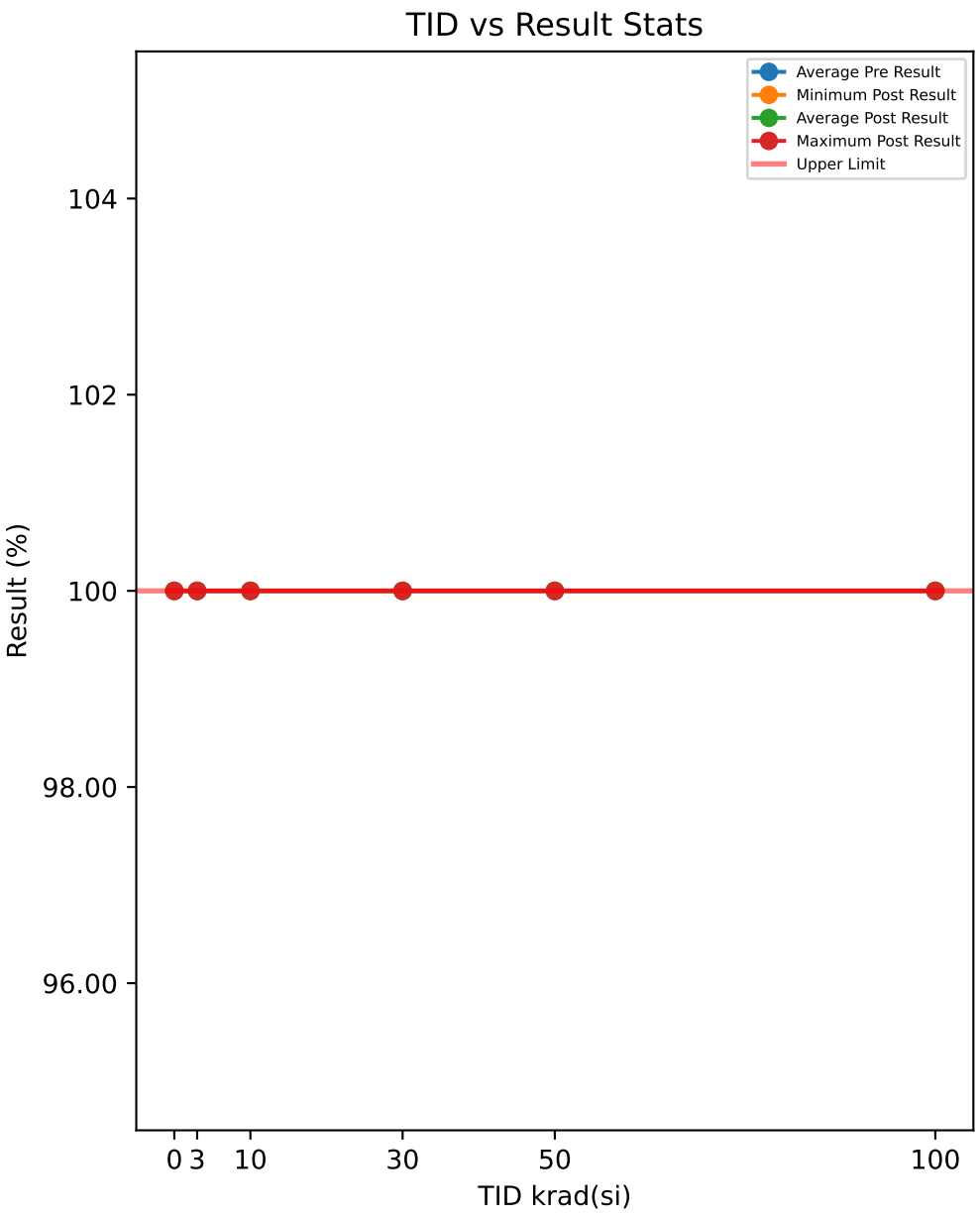
Test Results (Upper Limit = 100.0 (%))

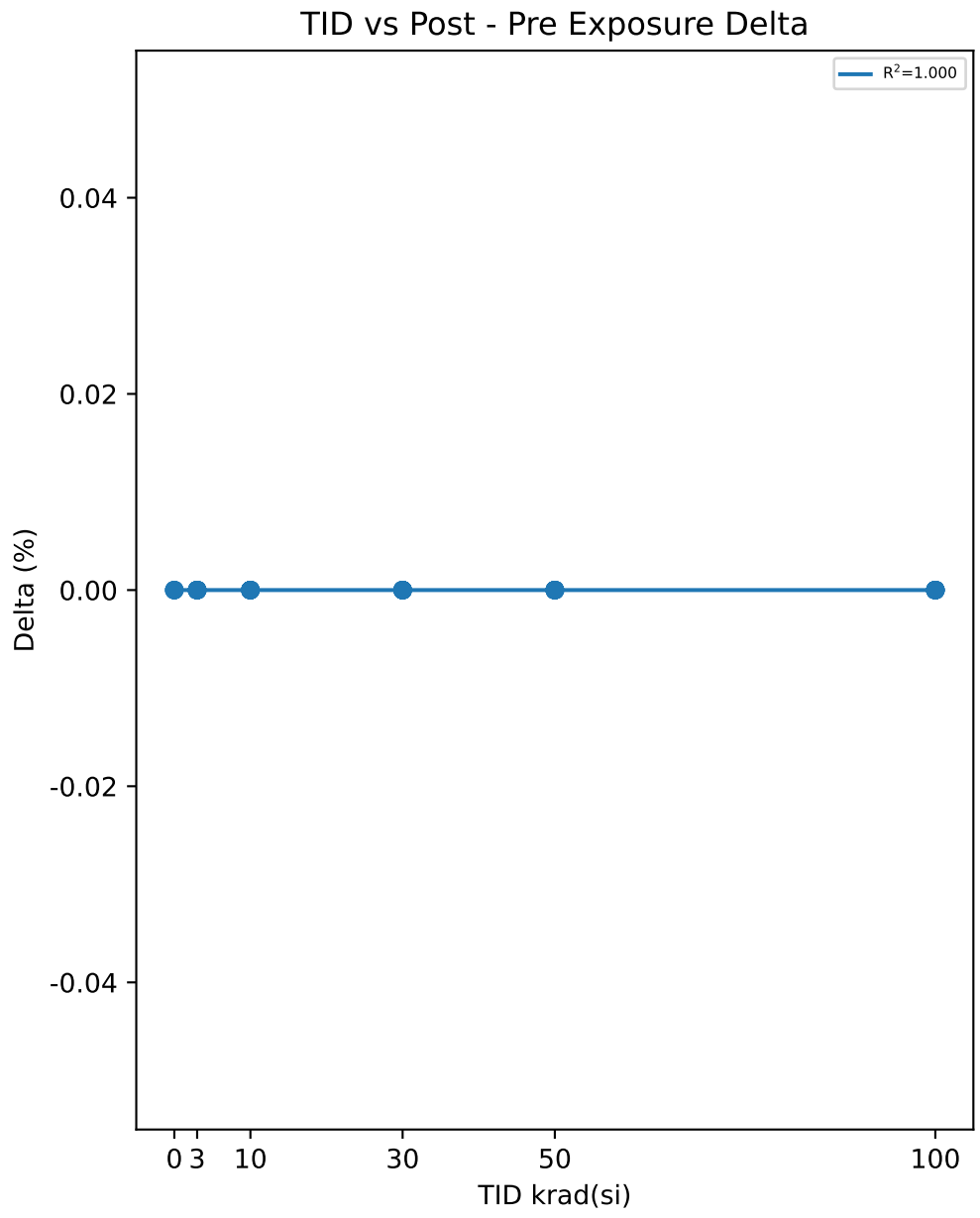
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 27.9 LEVEL|WRST_MAX/OUT/12/12/0/0/5/100kHz//@MAX_DCL_100





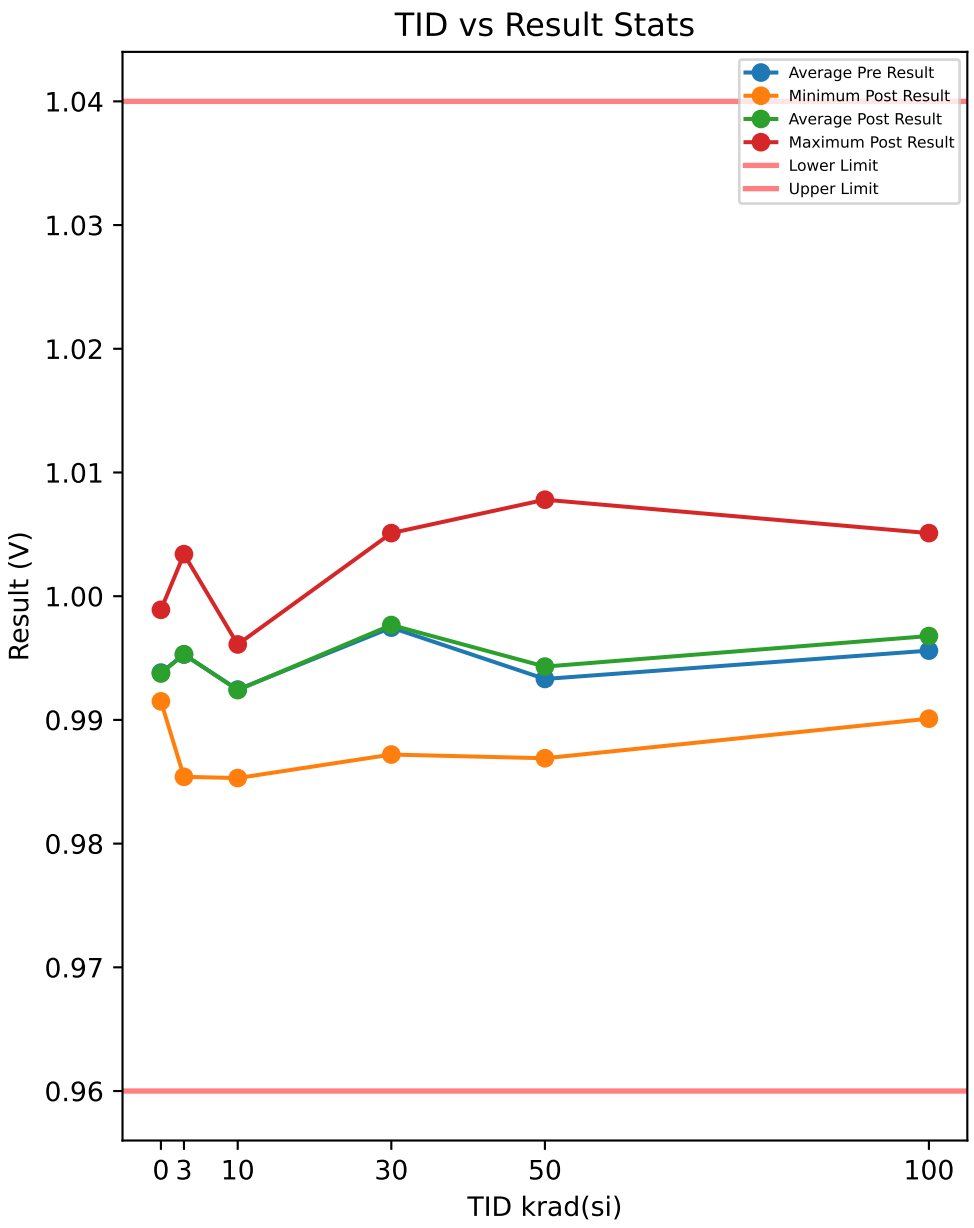
Test Results (Upper Limit = 100.0 (%))

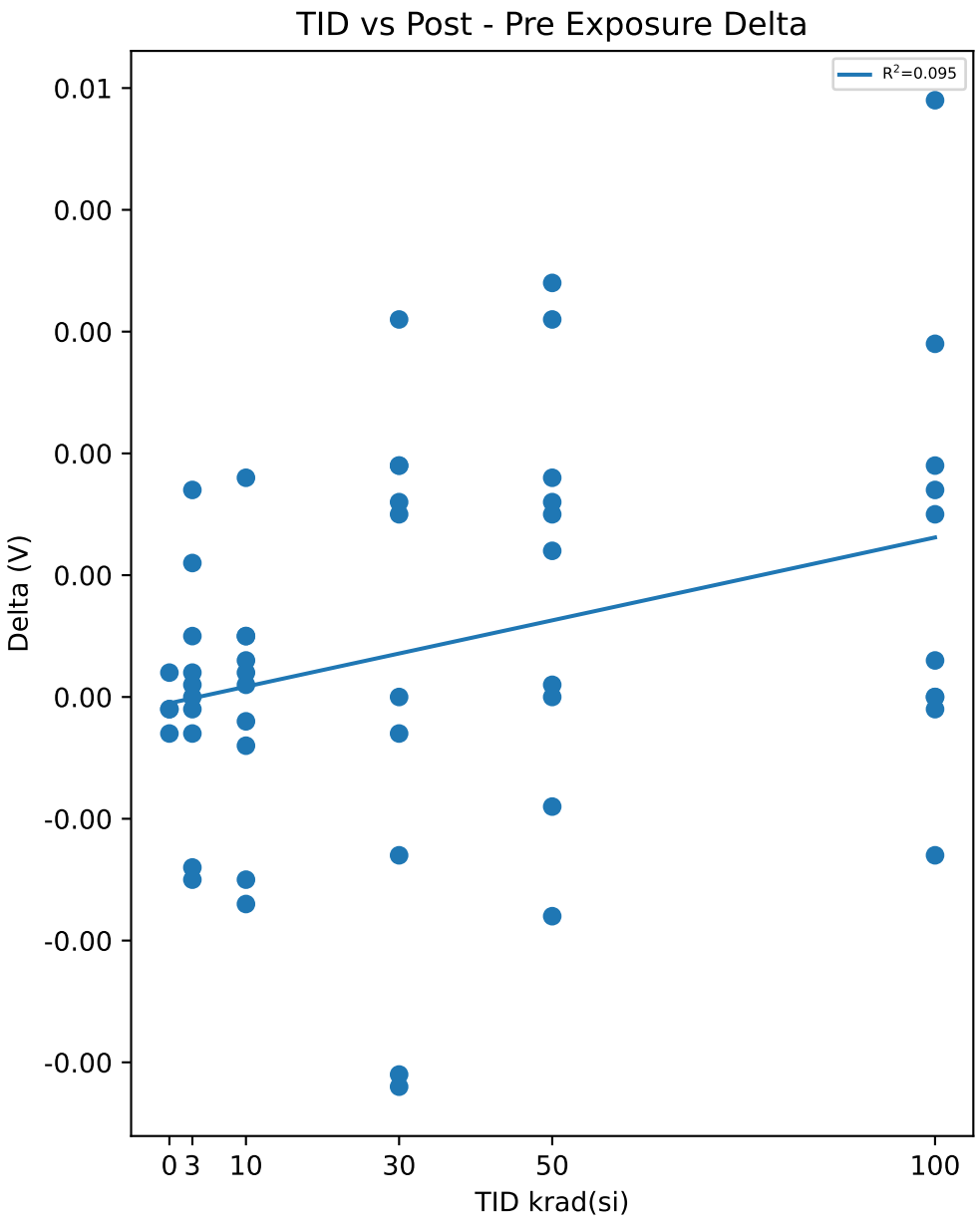
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	100	100	0
2	3	HDR BIAS	100	100	0
3	3	HDR BIAS	100	100	0
4	3	HDR BIAS	100	100	0
5	3	HDR BIAS	100	100	0
6	3	HDR UNBIAS	100	100	0
7	3	HDR UNBIAS	100	100	0
8	3	HDR UNBIAS	100	100	0
9	3	HDR UNBIAS	100	100	0
10	3	HDR UNBIAS	100	100	0
11	10	HDR BIAS	100	100	0
12	10	HDR BIAS	100	100	0
13	10	HDR BIAS	100	100	0
14	10	HDR BIAS	100	100	0
15	10	HDR BIAS	100	100	0
16	10	HDR UNBIAS	100	100	0
17	10	HDR UNBIAS	100	100	0
18	10	HDR UNBIAS	100	100	0
19	10	HDR UNBIAS	100	100	0
20	10	HDR UNBIAS	100	100	0
31	30	HDR BIAS	100	100	0
32	30	HDR BIAS	100	100	0
33	30	HDR BIAS	100	100	0
34	30	HDR BIAS	100	100	0
35	30	HDR BIAS	100	100	0
36	30	HDR UNBIAS	100	100	0
37	30	HDR UNBIAS	100	100	0
38	30	HDR UNBIAS	100	100	0
39	30	HDR UNBIAS	100	100	0
40	30	HDR UNBIAS	100	100	0
41	50	HDR BIAS	100	100	0
42	50	HDR BIAS	100	100	0
43	50	HDR BIAS	100	100	0
44	50	HDR BIAS	100	100	0
45	50	HDR BIAS	100	100	0
46	50	HDR UNBIAS	100	100	0
47	50	HDR UNBIAS	100	100	0
48	50	HDR UNBIAS	100	100	0
49	50	HDR UNBIAS	100	100	0
50	50	HDR UNBIAS	100	100	0
51	100	HDR BIAS	100	100	0
52	100	HDR BIAS	100	100	0
53	100	HDR BIAS	100	100	0
54	100	HDR BIAS	100	100	0
55	100	HDR BIAS	100	100	0
56	100	HDR UNBIAS	100	100	0
57	100	HDR UNBIAS	100	100	0
58	100	HDR UNBIAS	100	100	0
59	100	HDR UNBIAS	100	100	0
60	100	HDR UNBIAS	100	100	0
91	0	CORRELATION	100	100	0
92	0	CORRELATION	100	100	0
93	0	CORRELATION	100	100	0
94	0	CORRELATION	100	100	0

Test Statistics (%)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
30	100	100	100	0	100	100	100	0	0	0	0	0
50	100	100	100	0	100	100	100	0	0	0	0	0
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 28.10 VOLTAGE|OC/CS/14/14/0/0/5/500kHz//@V_CS_ILIM_OC





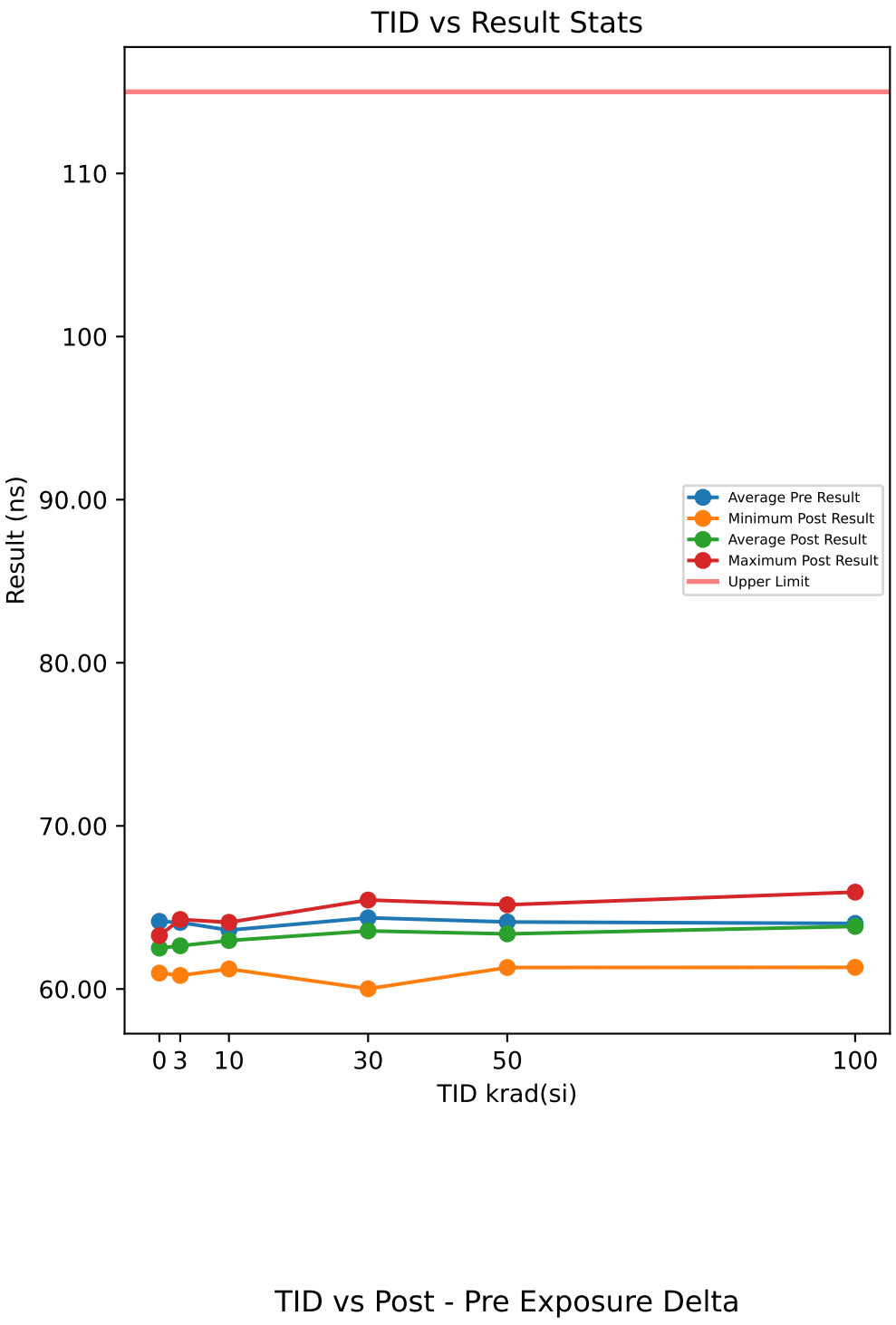
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

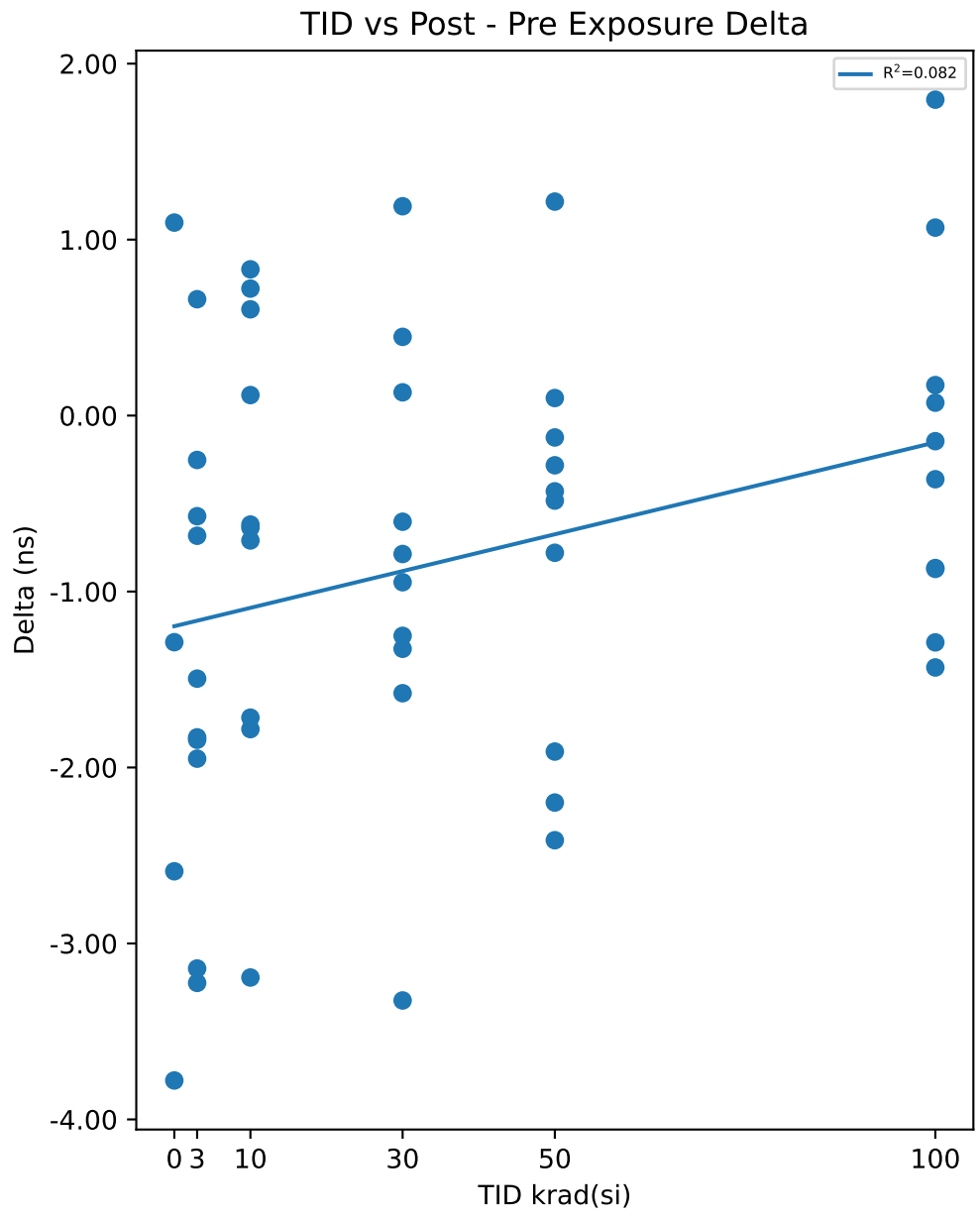
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.0004	1.0003	-0.0001
2	3	HDR BIAS	1.0006	1.0003	-0.0003
3	3	HDR BIAS	0.9941	0.9946	0.0005
4	3	HDR BIAS	1.0049	1.0034	-0.0015
5	3	HDR BIAS	0.9881	0.9882	0.0001
6	3	HDR UNBIAS	0.9913	0.9915	0.0002
7	3	HDR UNBIAS	1.002	1.0006	-0.0014
8	3	HDR UNBIAS	0.9933	0.9944	0.0011
9	3	HDR UNBIAS	0.9944	0.9944	0
10	3	HDR UNBIAS	0.9837	0.9854	0.0017
11	10	HDR BIAS	0.9948	0.9946	-0.0002
12	10	HDR BIAS	0.9911	0.9916	0.0005
13	10	HDR BIAS	0.9928	0.9929	0.0001
14	10	HDR BIAS	0.9914	0.9932	0.0018
15	10	HDR BIAS	0.9956	0.9961	0.0005
16	10	HDR UNBIAS	0.9884	0.9869	-0.0015
17	10	HDR UNBIAS	0.9957	0.9959	0.0002
18	10	HDR UNBIAS	0.987	0.9853	-0.0017
19	10	HDR UNBIAS	0.9943	0.9946	0.0003
20	10	HDR UNBIAS	0.9934	0.993	-0.0004
31	30	HDR BIAS	1.002	1.0051	0.0031
32	30	HDR BIAS	1.0023	1.002	-0.0003
33	30	HDR BIAS	1.0003	1.0019	0.0016
34	30	HDR BIAS	0.9958	0.9945	-0.0013
35	30	HDR BIAS	0.9912	0.9931	0.0019
36	30	HDR UNBIAS	0.9915	0.993	0.0015
37	30	HDR UNBIAS	1.002	0.9988	-0.0032
38	30	HDR UNBIAS	0.9872	0.9872	0
39	30	HDR UNBIAS	1.0035	1.0004	-0.0031
40	30	HDR UNBIAS	0.9988	1.0007	0.0019
41	50	HDR BIAS	0.9914	0.9929	0.0015
42	50	HDR BIAS	0.9988	1.0004	0.0016
43	50	HDR BIAS	0.9869	0.987	0.0001
44	50	HDR BIAS	0.9912	0.9943	0.0031
45	50	HDR BIAS	0.9929	0.9929	0
46	50	HDR UNBIAS	0.9987	0.9978	-0.0009
47	50	HDR UNBIAS	0.9902	0.9884	-0.0018
48	50	HDR UNBIAS	0.9851	0.9869	0.0018
49	50	HDR UNBIAS	0.9913	0.9947	0.0034
50	50	HDR UNBIAS	1.0066	1.0078	0.0012
51	100	HDR BIAS	1.0064	1.0051	-0.0013
52	100	HDR BIAS	0.9945	0.996	0.0015
53	100	HDR BIAS	0.9917	0.9916	-0.0001
54	100	HDR BIAS	0.9973	0.9992	0.0019
55	100	HDR BIAS	0.9927	0.9976	0.0049
56	100	HDR UNBIAS	0.9898	0.9901	0.0003
57	100	HDR UNBIAS	0.9941	0.9958	0.0017
58	100	HDR UNBIAS	0.9959	0.9959	0
59	100	HDR UNBIAS	0.9991	0.9991	0
60	100	HDR UNBIAS	0.9945	0.9974	0.0029
91	0	CORRELATION	0.9992	0.9989	-0.0003
92	0	CORRELATION	0.9931	0.993	-0.0001
93	0	CORRELATION	0.9913	0.9915	0.0002
94	0	CORRELATION	0.9917	0.9916	-0.0001

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9913	0.99382	0.9992	0.0036655	0.9915	0.99375	0.9989	0.003501	-0.0003	-7.5e-05	0.0002	0.00020616
3	0.9837	0.99528	1.0049	0.006665	0.9854	0.99531	1.0034	0.0058563	-0.0015	3e-05	0.0017	0.00098325
10	0.987	0.99245	0.9957	0.0029718	0.9853	0.99241	0.9961	0.0036235	-0.0017	-4e-05	0.0018	0.0010113
30	0.9872	0.99746	1.0035	0.0057128	0.9872	0.99767	1.0051	0.0054987	-0.0032	0.00021	0.0031	0.0021815
50	0.9851	0.99331	1.0066	0.0063796	0.9869	0.99431	1.0078	0.0064863	-0.0018	0.001	0.0034	0.0016573
100	0.9898	0.9956	1.0064	0.0046404	0.9901	0.99678	1.0051	0.0041542	-0.0013	0.00118	0.0049	0.0017962

Device Test: 28.11 TIMING|DELAY/CS/12/12/0/0/5/100kHz//@CS_ILIM_DELAY





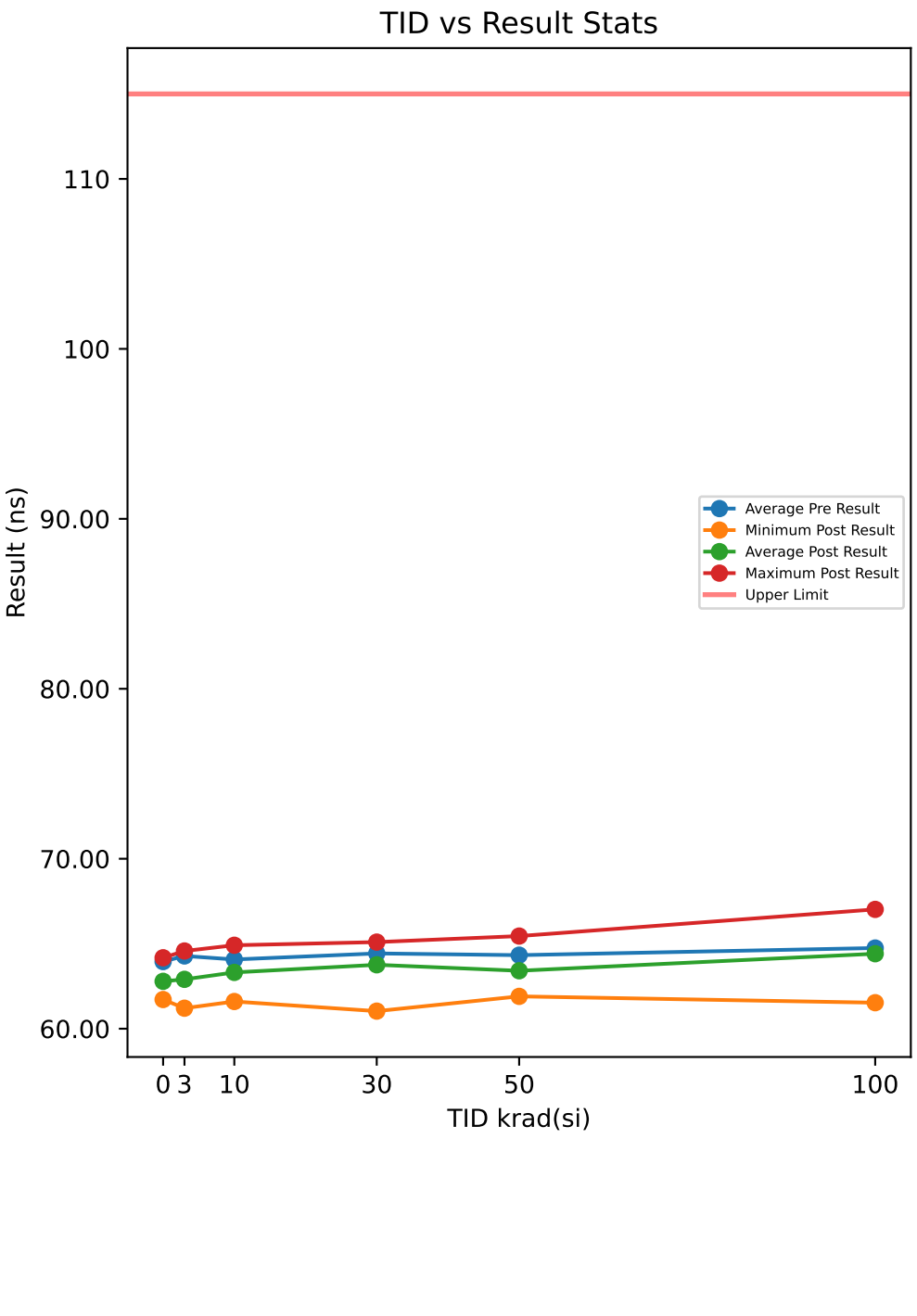
Test Results (Upper Limit = 115.0 (ns))

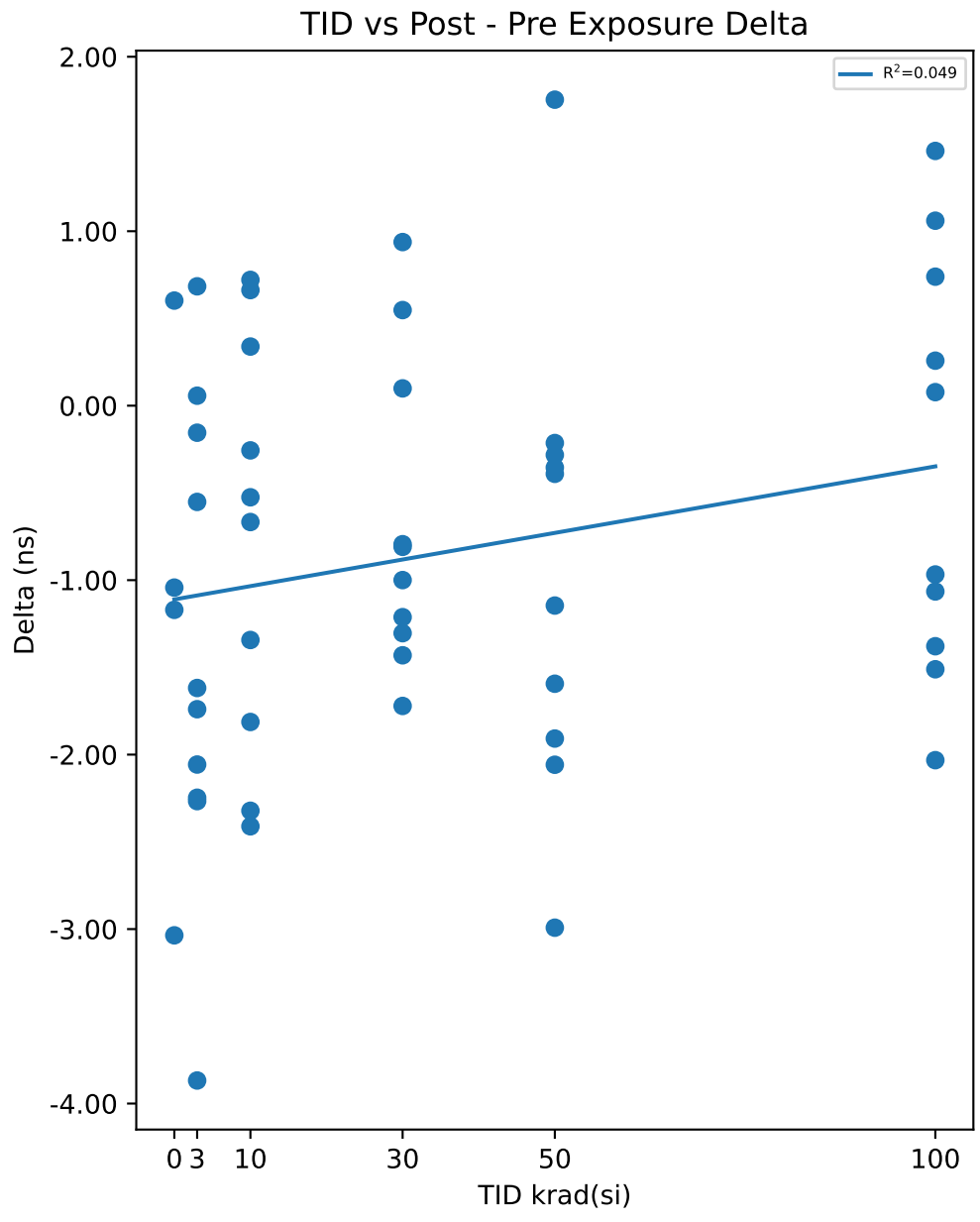
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	64.937	63.442	-1.495
2	3	HDR BIAS	64.942	61.717	-3.2242
3	3	HDR BIAS	64.835	64.263	-0.5719
4	3	HDR BIAS	64.355	63.672	-0.683
5	3	HDR BIAS	64.034	62.205	-1.8288
6	3	HDR UNBIAS	63.973	60.83	-3.1425
7	3	HDR UNBIAS	63.275	63.936	0.6613
8	3	HDR UNBIAS	63.754	63.502	-0.2522
9	3	HDR UNBIAS	63.97	62.02	-1.9498
10	3	HDR UNBIAS	62.753	60.91	-1.8425
11	10	HDR BIAS	63.382	63.986	0.6039
12	10	HDR BIAS	64.742	64.033	-0.7097
13	10	HDR BIAS	62.523	61.886	-0.6374
14	10	HDR BIAS	63.193	61.411	-1.7819
15	10	HDR BIAS	63.498	63.615	0.1165
16	10	HDR UNBIAS	63.282	64.004	0.7217
17	10	HDR UNBIAS	64.429	62.712	-1.7167
18	10	HDR UNBIAS	64.423	61.229	-3.1936
19	10	HDR UNBIAS	63.257	64.088	0.8312
20	10	HDR UNBIAS	63.361	62.742	-0.6194
31	30	HDR BIAS	63.712	64.902	1.1897
32	30	HDR BIAS	64.698	63.446	-1.2518
33	30	HDR BIAS	65.246	64.299	-0.9471
34	30	HDR BIAS	64.031	62.453	-1.5779
35	30	HDR BIAS	64.549	64.997	0.4474
36	30	HDR UNBIAS	64.414	63.088	-1.3253
37	30	HDR UNBIAS	64.461	63.675	-0.7867
38	30	HDR UNBIAS	63.337	60.013	-3.324
39	30	HDR UNBIAS	65.324	65.456	0.1321
40	30	HDR UNBIAS	63.884	63.281	-0.6033
41	50	HDR BIAS	64.093	64.192	0.0997
42	50	HDR BIAS	65.197	63.287	-1.9095
43	50	HDR BIAS	63.948	65.164	1.2161
44	50	HDR BIAS	64.785	64.502	-0.2825
45	50	HDR BIAS	63.077	62.646	-0.4306
46	50	HDR UNBIAS	63.517	61.318	-2.1992
47	50	HDR UNBIAS	64.895	64.412	-0.4832
48	50	HDR UNBIAS	63.783	63.004	-0.7797
49	50	HDR UNBIAS	62.914	62.789	-0.1244
50	50	HDR UNBIAS	64.89	62.477	-2.4133
51	100	HDR BIAS	65.865	65.939	0.0733
52	100	HDR BIAS	63.822	64.89	1.0683
53	100	HDR BIAS	64.147	63.276	-0.8714
54	100	HDR BIAS	64.198	62.767	-1.4315
55	100	HDR BIAS	63.127	64.922	1.7954
56	100	HDR UNBIAS	64.203	63.842	-0.3617
57	100	HDR UNBIAS	63.724	63.578	-0.1455
58	100	HDR UNBIAS	62.617	61.328	-1.289
59	100	HDR UNBIAS	65.126	65.299	0.1733
60	100	HDR UNBIAS	63.383	62.516	-0.8664
91	0	CORRELATION	65.647	63.058	-2.5899
92	0	CORRELATION	64.754	60.976	-3.7787
93	0	CORRELATION	62.178	63.275	1.0968
94	0	CORRELATION	64.009	62.721	-1.2879

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.178	64.147	65.647	1.4736	60.976	62.507	63.275	1.0463	-3.7787	-1.6399	1.0968	2.0889
3	62.753	64.083	64.942	0.71994	60.83	62.65	64.263	1.2673	-3.2242	-1.4329	0.6613	1.2387
10	62.523	63.609	64.742	0.69349	61.229	62.97	64.088	1.1378	-3.1936	-0.63854	0.8312	1.2965
30	63.337	64.366	65.324	0.63923	60.013	63.561	65.456	1.5683	-3.324	-0.80469	1.1897	1.2427
50	62.914	64.11	65.197	0.80577	61.318	63.379	65.164	1.1678	-2.4133	-0.73066	1.2161	1.1343
100	62.617	64.021	65.865	0.94329	61.328	63.836	65.939	1.4301	-1.4315	-0.18552	1.7954	1.0235

Device Test: 28.12 TIMING|DELAY/CS/14/14/0/0/5/100kHz//@CS_ILIM_DELAY





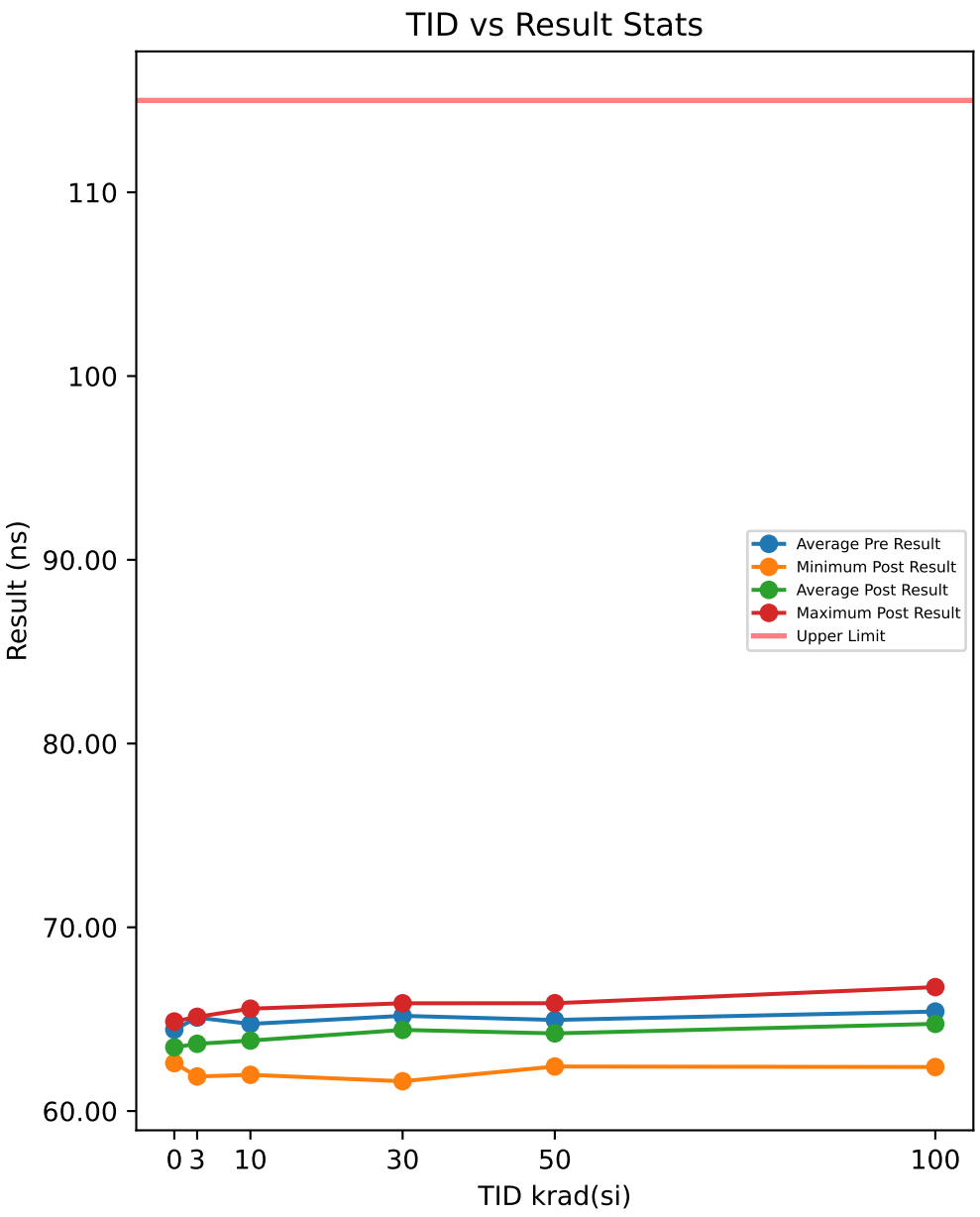
Test Results (Upper Limit = 115.0 (ns))

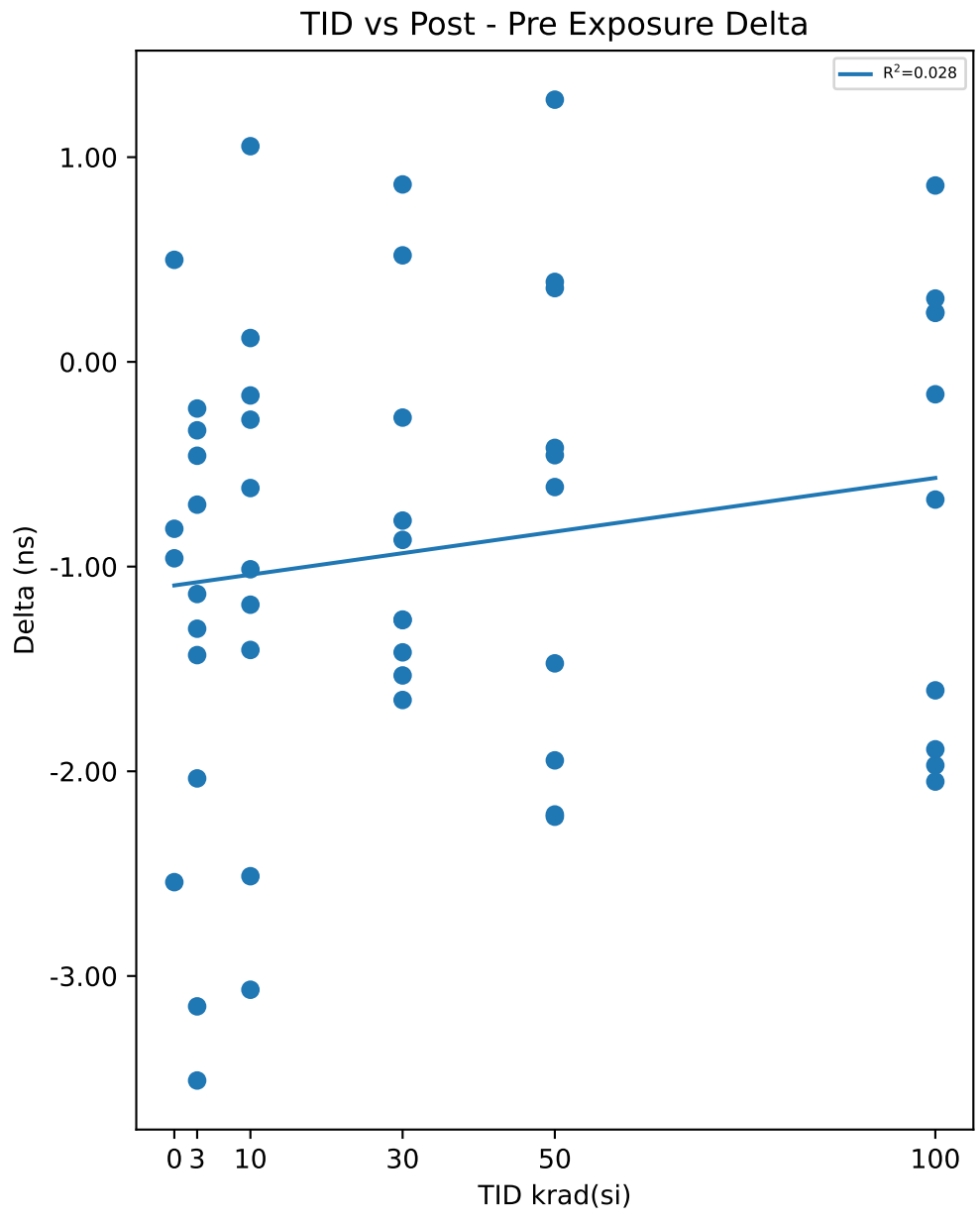
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	64.516	64.573	0.0572
2	3	HDR BIAS	65.686	61.818	-3.8679
3	3	HDR BIAS	64.529	63.977	-0.5516
4	3	HDR BIAS	64.641	64.486	-0.1549
5	3	HDR BIAS	64.25	61.983	-2.2666
6	3	HDR UNBIAS	63.961	61.904	-2.0569
7	3	HDR UNBIAS	63.345	64.029	0.6841
8	3	HDR UNBIAS	64.667	63.048	-1.6181
9	3	HDR UNBIAS	64.263	62.016	-2.2472
10	3	HDR UNBIAS	62.946	61.206	-1.7397
11	10	HDR BIAS	63.48	64.201	0.7211
12	10	HDR BIAS	65.685	64.342	-1.343
13	10	HDR BIAS	62.016	61.76	-0.2562
14	10	HDR BIAS	64.01	61.6	-2.4109
15	10	HDR BIAS	64.509	63.843	-0.6669
16	10	HDR UNBIAS	63.838	64.177	0.3389
17	10	HDR UNBIAS	64.715	62.902	-1.8129
18	10	HDR UNBIAS	64.686	62.364	-2.3218
19	10	HDR UNBIAS	64.247	64.91	0.6626
20	10	HDR UNBIAS	63.548	63.023	-0.525
31	30	HDR BIAS	64.01	64.947	0.9378
32	30	HDR BIAS	65.034	63.822	-1.2121
33	30	HDR BIAS	64.598	63.788	-0.8091
34	30	HDR BIAS	64.755	63.324	-1.4307
35	30	HDR BIAS	64.216	64.764	0.548
36	30	HDR UNBIAS	64.716	63.412	-1.3039
37	30	HDR UNBIAS	64.18	63.181	-0.9996
38	30	HDR UNBIAS	62.755	61.034	-1.721
39	30	HDR UNBIAS	65.89	65.096	-0.794
40	30	HDR UNBIAS	64.134	64.233	0.0991
41	50	HDR BIAS	64.345	63.955	-0.3906
42	50	HDR BIAS	65.903	62.911	-2.992
43	50	HDR BIAS	63.696	65.45	1.754
44	50	HDR BIAS	64.984	64.629	-0.3547
45	50	HDR BIAS	63.986	62.078	-1.9079
46	50	HDR UNBIAS	63.312	62.167	-1.1456
47	50	HDR UNBIAS	65.058	64.775	-0.2823
48	50	HDR UNBIAS	63.961	61.902	-2.0581
49	50	HDR UNBIAS	63.058	62.844	-0.2141
50	50	HDR UNBIAS	64.969	63.375	-1.5937
51	100	HDR BIAS	66.281	67.02	0.7394
52	100	HDR BIAS	64.363	65.823	1.4602
53	100	HDR BIAS	64.538	64.796	0.258
54	100	HDR BIAS	64.45	62.939	-1.5108
55	100	HDR BIAS	64.036	65.097	1.0603
56	100	HDR UNBIAS	65.036	64.069	-0.9675
57	100	HDR UNBIAS	65.122	63.743	-1.3788
58	100	HDR UNBIAS	63.561	61.529	-2.0319
59	100	HDR UNBIAS	65.999	66.076	0.0776
60	100	HDR UNBIAS	64.078	63.013	-1.0649
91	0	CORRELATION	65.344	64.174	-1.1702
92	0	CORRELATION	64.752	61.716	-3.0358
93	0	CORRELATION	62.201	62.804	0.6024
94	0	CORRELATION	63.496	62.454	-1.0427

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.201	63.948	65.344	1.3964	61.716	62.787	64.174	1.0298	-3.0358	-1.1616	0.6024	1.4876
3	62.946	64.28	65.686	0.7551	61.206	62.904	64.573	1.266	-3.8679	-1.3762	0.6841	1.3697
10	62.016	64.074	65.685	0.97321	61.6	63.312	64.91	1.1512	-2.4109	-0.76141	0.7211	1.1717
30	62.755	64.429	65.89	0.80891	61.034	63.76	65.096	1.1789	-1.721	-0.66855	0.9378	0.89333
50	63.058	64.327	65.903	0.89148	61.902	63.409	65.45	1.2459	-2.992	-0.9185	1.754	1.3218
100	63.561	64.746	66.281	0.86807	61.529	64.411	67.02	1.6727	-2.0319	-0.33584	1.4602	1.2079

Device Test: 28.13 TIMING|DELAY/CS/12/12/0/1000/5/100kHz//@CS_ILIM_DELAY





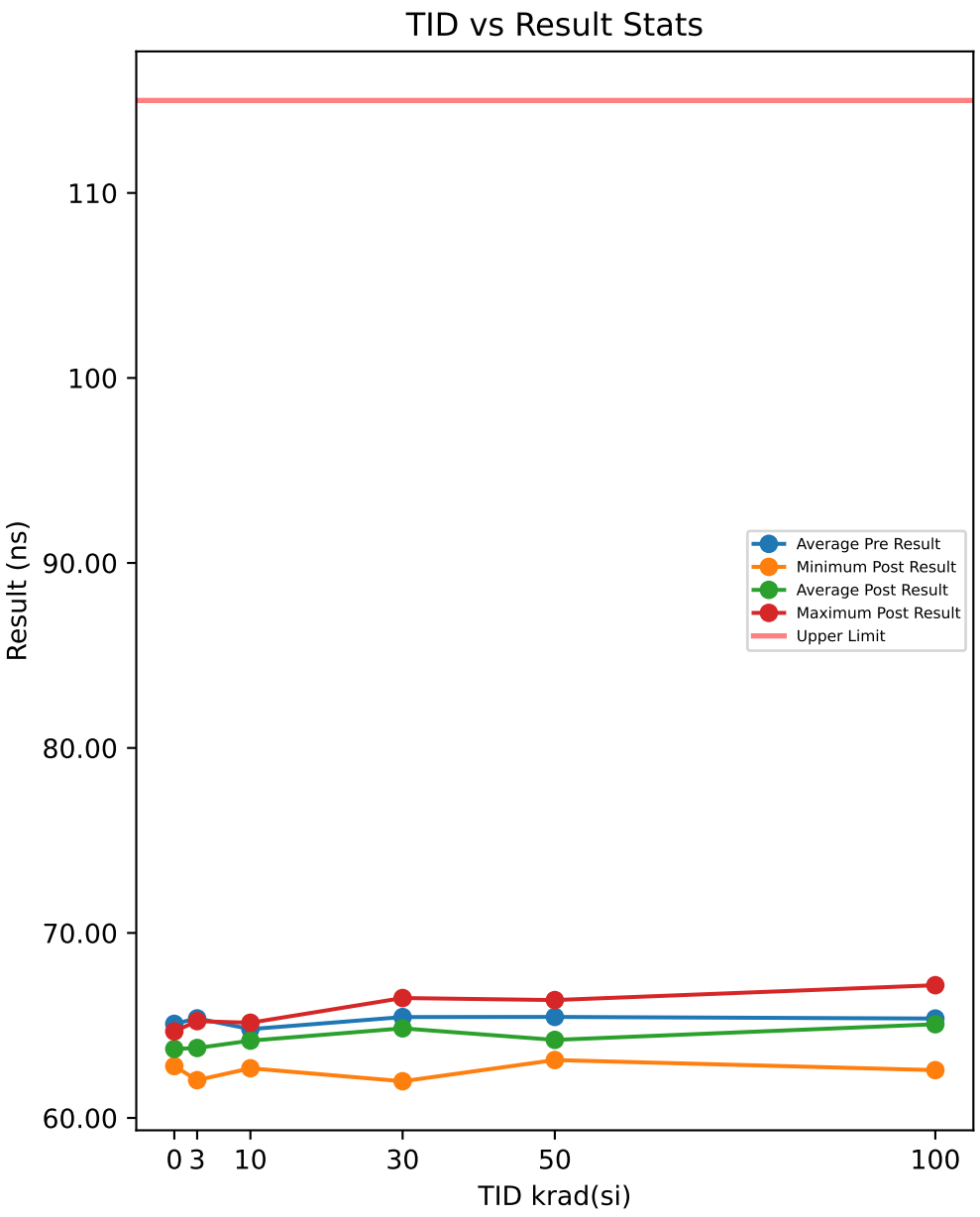
Test Results (Upper Limit = 115.0 (ns))

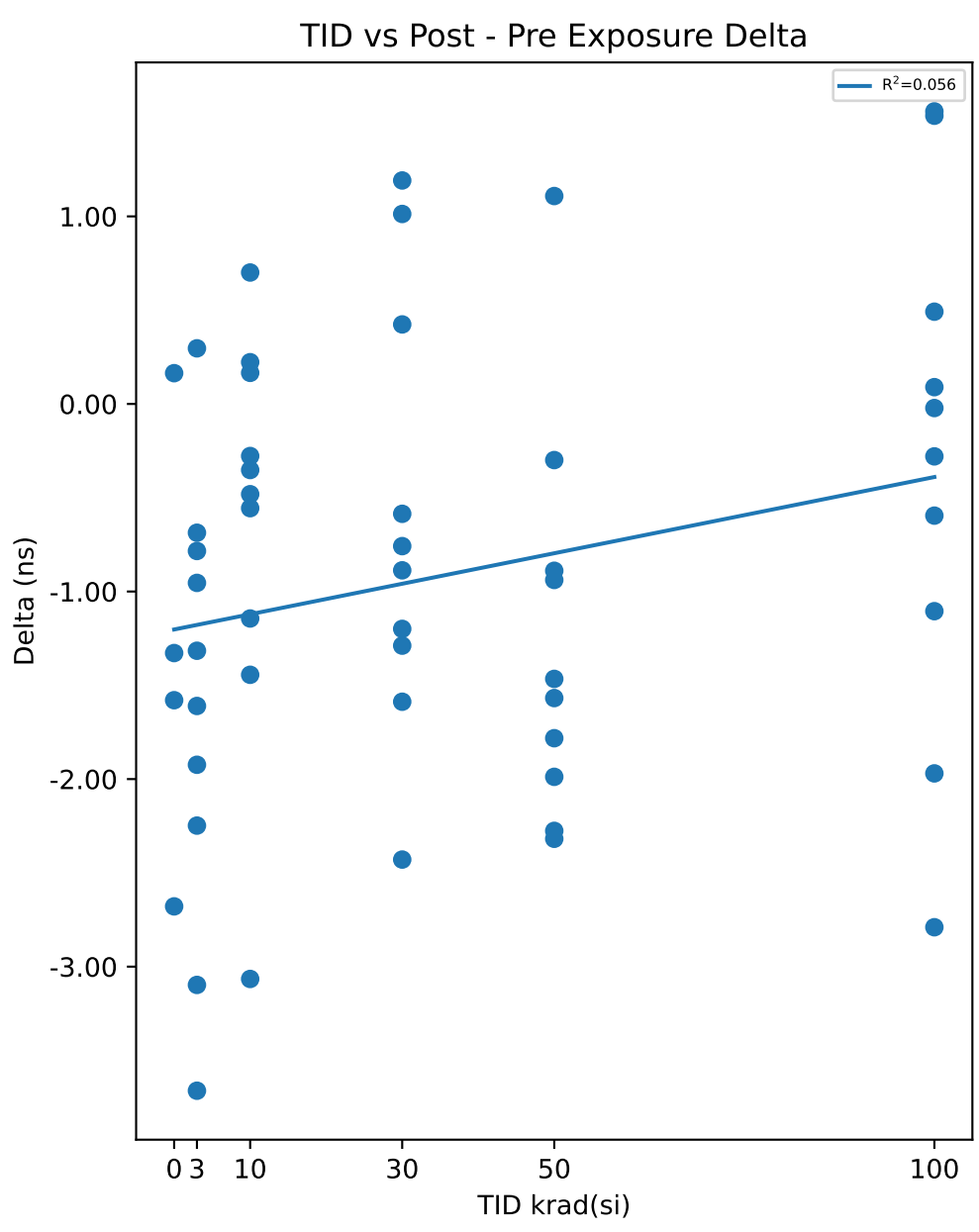
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	65.344	65.116	-0.2279
2	3	HDR BIAS	66.277	62.767	-3.5105
3	3	HDR BIAS	65.826	65.129	-0.6975
4	3	HDR BIAS	64.824	64.365	-0.4586
5	3	HDR BIAS	65.359	63.324	-2.0348
6	3	HDR UNBIAS	65.735	62.586	-3.1484
7	3	HDR UNBIAS	64.781	64.446	-0.3344
8	3	HDR UNBIAS	65.037	63.605	-1.4324
9	3	HDR UNBIAS	64.67	63.366	-1.3035
10	3	HDR UNBIAS	63.014	61.88	-1.134
11	10	HDR BIAS	64.717	64.833	0.1165
12	10	HDR BIAS	66.187	65.57	-0.6164
13	10	HDR BIAS	63.423	62.016	-1.4072
14	10	HDR BIAS	64.484	61.971	-2.5125
15	10	HDR BIAS	65.396	64.383	-1.0131
16	10	HDR UNBIAS	64.386	64.104	-0.2824
17	10	HDR UNBIAS	64.509	63.323	-1.1862
18	10	HDR UNBIAS	66.296	63.229	-3.0671
19	10	HDR UNBIAS	64.247	65.3	1.0536
20	10	HDR UNBIAS	63.773	63.609	-0.1641
31	30	HDR BIAS	64.677	65.544	0.8668
32	30	HDR BIAS	65.263	64.394	-0.8696
33	30	HDR BIAS	66.177	64.757	-1.419
34	30	HDR BIAS	64.727	63.465	-1.2616
35	30	HDR BIAS	65.345	65.865	0.5204
36	30	HDR UNBIAS	65.74	64.481	-1.2588
37	30	HDR UNBIAS	64.67	63.895	-0.7752
38	30	HDR UNBIAS	63.272	61.621	-1.6517
39	30	HDR UNBIAS	66.951	65.42	-1.5318
40	30	HDR UNBIAS	64.986	64.714	-0.2722
41	50	HDR BIAS	64.703	64.247	-0.4559
42	50	HDR BIAS	65.989	63.778	-2.2109
43	50	HDR BIAS	64.19	65.471	1.2809
44	50	HDR BIAS	64.927	65.287	0.3604
45	50	HDR BIAS	64.822	63.349	-1.4728
46	50	HDR UNBIAS	64.645	62.423	-2.2219
47	50	HDR UNBIAS	65.477	65.868	0.3907
48	50	HDR UNBIAS	64.969	64.549	-0.4202
49	50	HDR UNBIAS	64.355	63.744	-0.6115
50	50	HDR UNBIAS	65.493	63.547	-1.9466
51	100	HDR BIAS	66.435	66.744	0.3094
52	100	HDR BIAS	65.381	65.623	0.2418
53	100	HDR BIAS	65.552	64.88	-0.6726
54	100	HDR BIAS	65.338	63.288	-2.0502
55	100	HDR BIAS	64.827	65.688	0.8616
56	100	HDR UNBIAS	64.718	64.56	-0.1583
57	100	HDR UNBIAS	65.693	64.089	-1.6046
58	100	HDR UNBIAS	64.288	62.395	-1.8927
59	100	HDR UNBIAS	66.461	66.701	0.2392
60	100	HDR UNBIAS	65.448	63.477	-1.9708
91	0	CORRELATION	65.688	64.872	-0.8153
92	0	CORRELATION	65.15	62.608	-2.5415
93	0	CORRELATION	62.949	63.448	0.4985
94	0	CORRELATION	63.92	62.96	-0.9596

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.949	64.427	65.688	1.2319	62.608	63.472	64.872	0.995	-2.5415	-0.95448	0.4985	1.2449
3	63.014	65.087	66.277	0.89202	61.88	63.658	65.129	1.0912	-3.5105	-1.4282	-0.2279	1.1487
10	63.423	64.742	66.296	0.94883	61.971	63.834	65.57	1.2468	-3.0671	-0.90789	1.0536	1.2248
30	63.272	65.181	66.951	0.99294	61.621	64.416	65.865	1.2283	-1.6517	-0.76527	0.8668	0.87314
50	64.19	64.957	65.989	0.55325	62.423	64.226	65.868	1.0744	-2.2219	-0.73078	1.2809	1.2076
100	64.288	65.414	66.461	0.69458	62.395	64.744	66.744	1.4612	-2.0502	-0.66972	0.8616	1.1151

Device Test: 28.14 TIMING|DELAY/CS/14/14/0/1000/5/100kHz//@CS_ILIM_DELAY





Test Results (Upper Limit = 115.0 (ns))

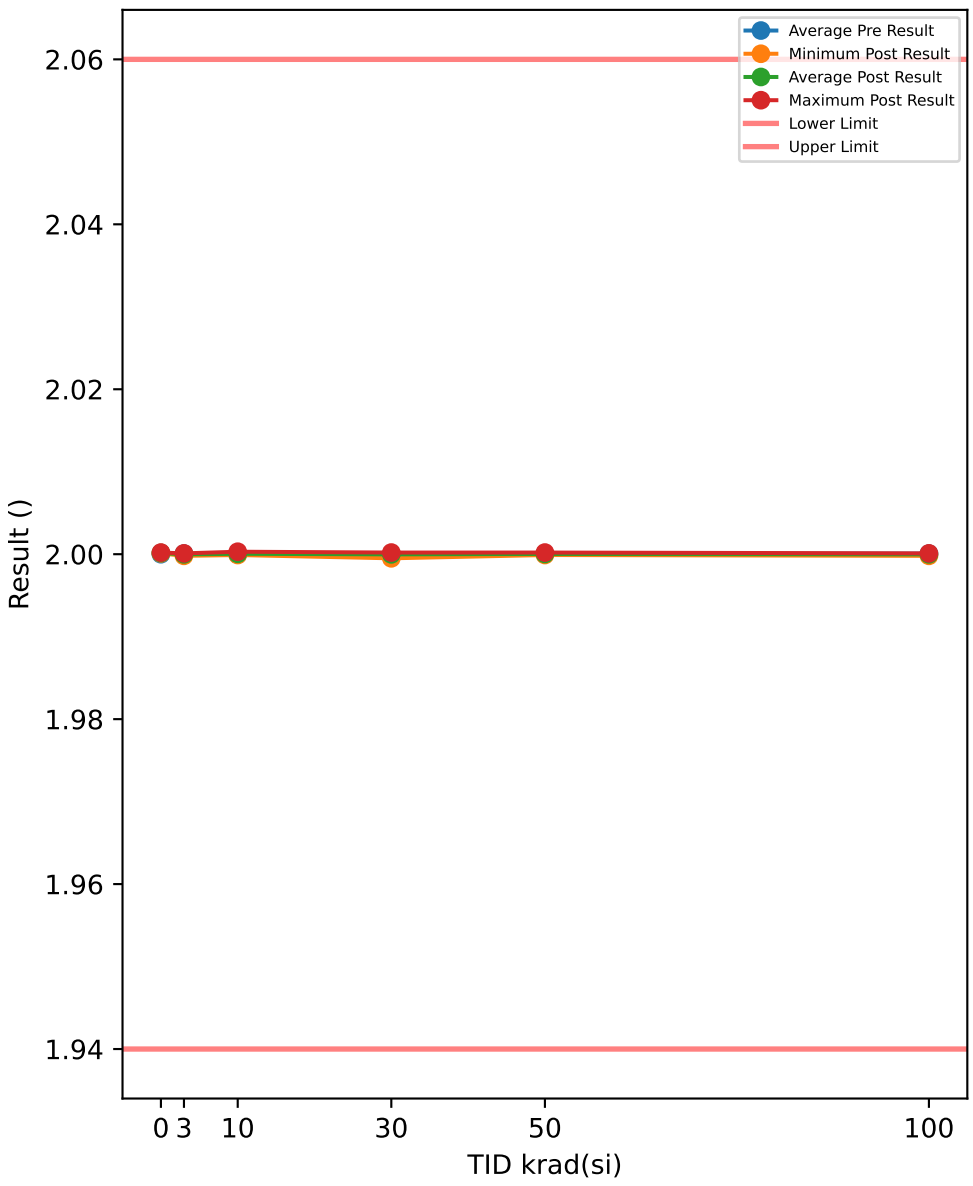
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	66.186	65.232	-0.954
2	3	HDR BIAS	66.63	62.968	-3.6615
3	3	HDR BIAS	66.407	64.797	-1.6102
4	3	HDR BIAS	65.619	64.835	-0.7839
5	3	HDR BIAS	65.652	63.404	-2.248
6	3	HDR UNBIAS	65.312	62.215	-3.0974
7	3	HDR UNBIAS	64.532	64.829	0.2965
8	3	HDR UNBIAS	65.156	64.47	-0.6866
9	3	HDR UNBIAS	64.943	63.019	-1.9237
10	3	HDR UNBIAS	63.359	62.043	-1.3158
11	10	HDR BIAS	64.79	65.012	0.2226
12	10	HDR BIAS	66.289	65.145	-1.1438
13	10	HDR BIAS	63.554	62.998	-0.5556
14	10	HDR BIAS	64.129	62.685	-1.444
15	10	HDR BIAS	64.97	65.136	0.1658
16	10	HDR UNBIAS	65.355	65.003	-0.3522
17	10	HDR UNBIAS	64.935	64.658	-0.2776
18	10	HDR UNBIAS	65.898	62.833	-3.0656
19	10	HDR UNBIAS	64.433	65.133	0.7008
20	10	HDR UNBIAS	63.647	63.166	-0.4812
31	30	HDR BIAS	65.469	66.482	1.0129
32	30	HDR BIAS	65.041	65.465	0.424
33	30	HDR BIAS	67.204	64.775	-2.4291
34	30	HDR BIAS	65.657	64.458	-1.1992
35	30	HDR BIAS	64.909	66.1	1.1915
36	30	HDR UNBIAS	65.276	64.69	-0.5857
37	30	HDR UNBIAS	65.016	64.258	-0.758
38	30	HDR UNBIAS	63.57	61.983	-1.5876
39	30	HDR UNBIAS	67.184	65.895	-1.2885
40	30	HDR UNBIAS	65.203	64.316	-0.887
41	50	HDR BIAS	65.197	64.258	-0.9384
42	50	HDR BIAS	66.388	64.07	-2.3183
43	50	HDR BIAS	65.262	66.371	1.1085
44	50	HDR BIAS	65.827	64.938	-0.8894
45	50	HDR BIAS	65.046	63.264	-1.7821
46	50	HDR UNBIAS	64.709	63.141	-1.5681
47	50	HDR UNBIAS	65.75	65.451	-0.2992
48	50	HDR UNBIAS	65.406	63.13	-2.2761
49	50	HDR UNBIAS	64.681	63.215	-1.4658
50	50	HDR UNBIAS	66.332	64.344	-1.988
51	100	HDR BIAS	66.683	67.175	0.4919
52	100	HDR BIAS	65.101	66.638	1.5366
53	100	HDR BIAS	65.221	64.626	-0.5954
54	100	HDR BIAS	66.168	63.378	-2.7899
55	100	HDR BIAS	65.04	66.6	1.5598
56	100	HDR UNBIAS	64.798	64.776	-0.0218
57	100	HDR UNBIAS	65.309	64.204	-1.1048
58	100	HDR UNBIAS	64.553	62.583	-1.9697
59	100	HDR UNBIAS	66.161	66.251	0.0896
60	100	HDR UNBIAS	64.693	64.414	-0.2795
91	0	CORRELATION	66.006	64.678	-1.3281
92	0	CORRELATION	65.48	62.801	-2.6787
93	0	CORRELATION	64.067	64.231	0.1641
94	0	CORRELATION	64.788	63.208	-1.5795

Test Statistics (ns)

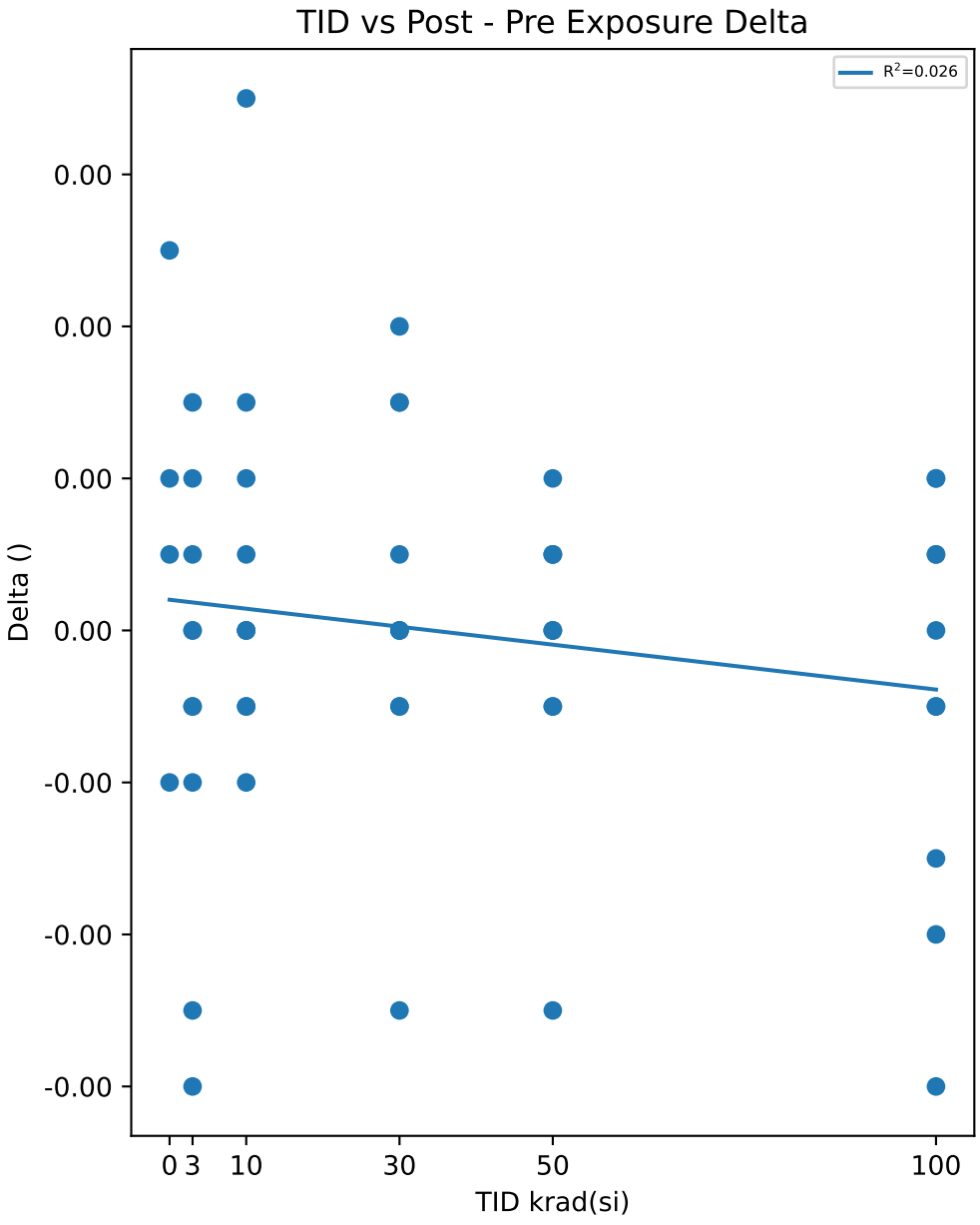
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.067	65.085	66.006	0.84258	62.801	63.73	64.678	0.87265	-2.6787	-1.3555	0.1641	1.1706
3	63.359	65.38	66.63	0.96885	62.043	63.781	65.232	1.1869	-3.6615	-1.5985	0.2965	1.1838
10	63.554	64.8	66.289	0.89744	62.685	64.177	65.145	1.0969	-3.0656	-0.62308	0.7008	1.0655
30	63.57	65.453	67.204	1.075	61.983	64.842	66.482	1.2797	-2.4291	-0.61067	1.1915	1.1605
50	64.681	65.46	66.388	0.60489	63.13	64.218	66.371	1.1041	-2.3183	-1.2417	1.1085	1.0468
100	64.553	65.373	66.683	0.71848	62.583	65.064	67.175	1.5323	-2.7899	-0.30832	1.5598	1.3909

Device Test: 28.15 LEVEL|RATIO/CS/8/8/0/0/5/500kHz//@C_CS_R

TID vs Result Stats



TID vs Post - Pre Exposure Delta



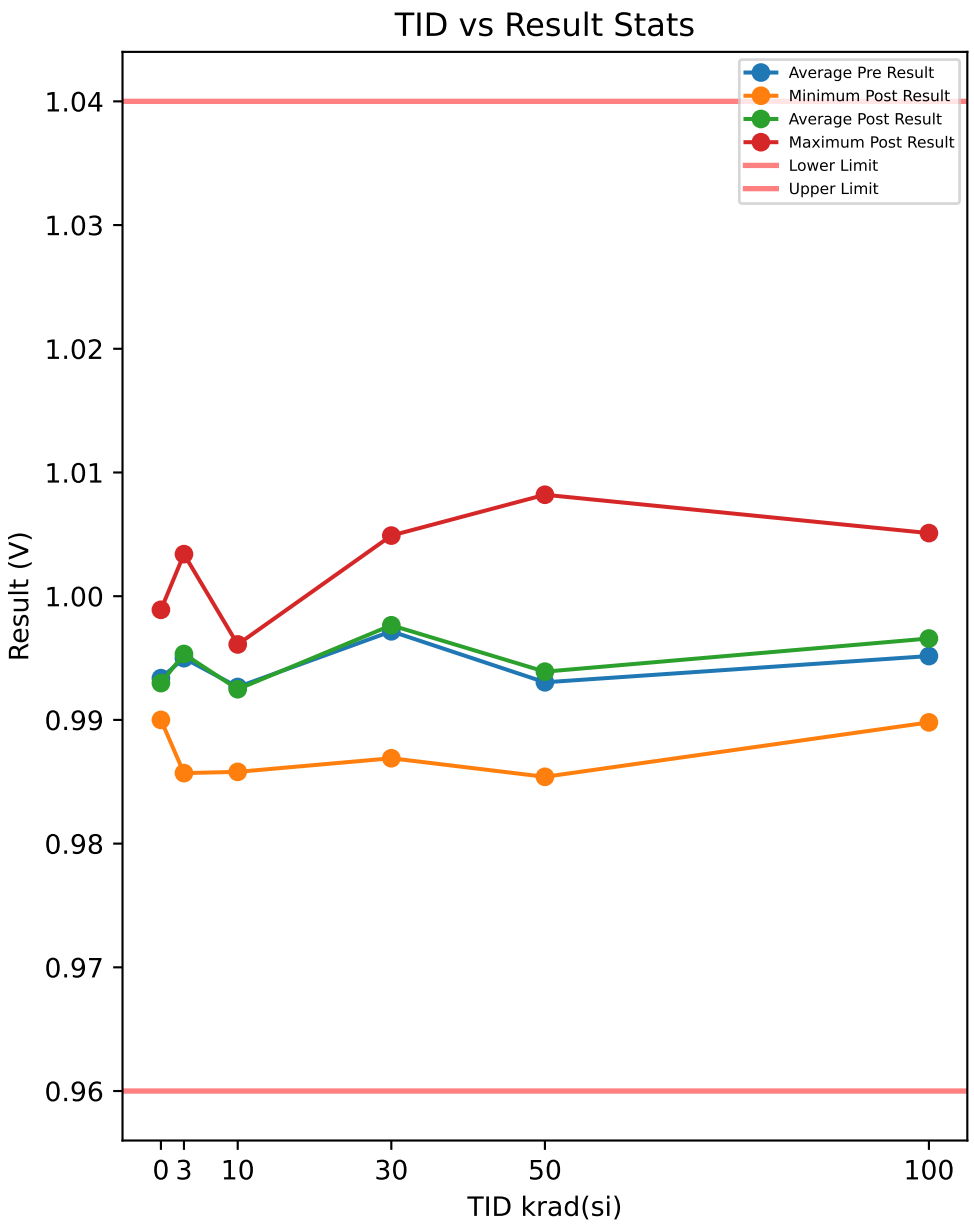
Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

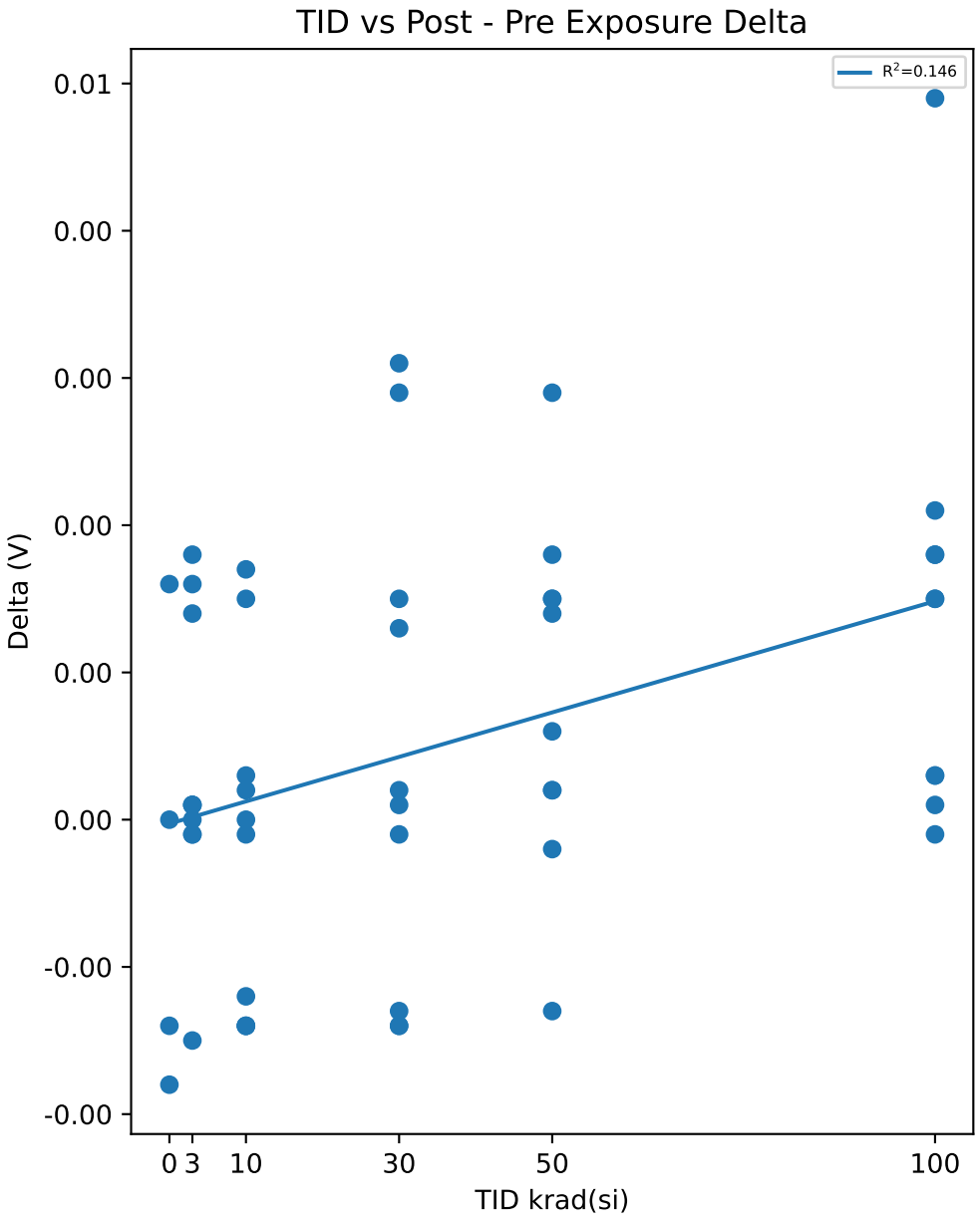
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2.0001	1.9999	-0.0002
2	3	HDR BIAS	2.0004	1.9999	-0.0005
3	3	HDR BIAS	1.9999	2	0.0001
4	3	HDR BIAS	2	1.9999	-0.0001
5	3	HDR BIAS	2.0001	2	-0.0001
6	3	HDR UNBIAS	1.9998	2.0001	0.0003
7	3	HDR UNBIAS	2.0001	2.0001	0
8	3	HDR UNBIAS	2	2	0
9	3	HDR UNBIAS	2.0004	1.9998	-0.0006
10	3	HDR UNBIAS	1.9999	2.0001	0.0002
11	10	HDR BIAS	1.9999	1.9999	0
12	10	HDR BIAS	2.0001	2	-0.0001
13	10	HDR BIAS	2.0001	1.9999	-0.0002
14	10	HDR BIAS	1.9995	2.0002	0.0007
15	10	HDR BIAS	2.0001	2.0001	0
16	10	HDR UNBIAS	2	2	0
17	10	HDR UNBIAS	1.9998	2	0.0002
18	10	HDR UNBIAS	2	2.0001	0.0001
19	10	HDR UNBIAS	2.0001	2	-0.0001
20	10	HDR UNBIAS	2	2.0003	0.0003
31	30	HDR BIAS	2.0001	2.0001	0
32	30	HDR BIAS	1.9998	2.0001	0.0003
33	30	HDR BIAS	2	2	0
34	30	HDR BIAS	2	2	0
35	30	HDR BIAS	1.9996	2	0.0004
36	30	HDR UNBIAS	2.0001	2	-0.0001
37	30	HDR UNBIAS	2	1.9999	-0.0001
38	30	HDR UNBIAS	1.9999	2.0002	0.0003
39	30	HDR UNBIAS	1.9999	2	0.0001
40	30	HDR UNBIAS	2	1.9995	-0.0005
41	50	HDR BIAS	2.0001	2.0001	0
42	50	HDR BIAS	2.0001	2.0002	0.0001
43	50	HDR BIAS	1.9999	2	0.0001
44	50	HDR BIAS	2	1.9999	-0.0001
45	50	HDR BIAS	1.9999	2.0001	0.0002
46	50	HDR UNBIAS	1.9999	1.9999	0
47	50	HDR UNBIAS	2.0001	2.0001	0
48	50	HDR UNBIAS	2	2.0001	0.0001
49	50	HDR UNBIAS	2	1.9999	-0.0001
50	50	HDR UNBIAS	2.0005	2	-0.0005
51	100	HDR BIAS	2.0005	1.9999	-0.0006
52	100	HDR BIAS	1.9999	2.0001	0.0002
53	100	HDR BIAS	1.9998	1.9999	0.0001
54	100	HDR BIAS	2	2.0001	0.0001
55	100	HDR BIAS	2	2	0
56	100	HDR UNBIAS	2.0002	1.9998	-0.0004
57	100	HDR UNBIAS	2.0001	2	-0.0001
58	100	HDR UNBIAS	1.9999	2.0001	0.0002
59	100	HDR UNBIAS	2.0002	1.9999	-0.0003
60	100	HDR UNBIAS	2.0001	2	-0.0001
91	0	CORRELATION	2.0003	2.0001	-0.0002
92	0	CORRELATION	1.9996	2.0001	0.0005
93	0	CORRELATION	2.0001	2.0002	0.0001
94	0	CORRELATION	2	2.0002	0.0002

Test Statistics ()

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9996	2	2.0003	0.00029439	2.0001	2.0002	2.0002	5.7735e-05	-0.0002	0.00015	0.0005	0.00028868
3	1.9998	2.0001	2.0004	0.00020028	1.9998	2	2.0001	0.00010328	-0.0006	-9e-05	0.0003	0.0002846
10	1.9995	2	2.0001	0.00018974	1.9999	2.0001	2.0003	0.00012693	-0.0002	9e-05	0.0007	0.00026013
30	1.9996	1.9999	2.0001	0.00015055	1.9995	2	2.0002	0.00018738	-0.0005	4e-05	0.0004	0.00025906
50	1.9999	2.0001	2.0005	0.00017795	1.9999	2	2.0002	0.00010593	-0.0005	-2e-05	0.0002	0.00019322
100	1.9998	2.0001	2.0005	0.00020028	1.9998	2	2.0001	0.00010328	-0.0006	-9e-05	0.0002	0.00026854

Device Test: 28.17 VOLTAGE|OC/CS/8/8/0/0/5/100kHz//@V_CS_ILIM_OC





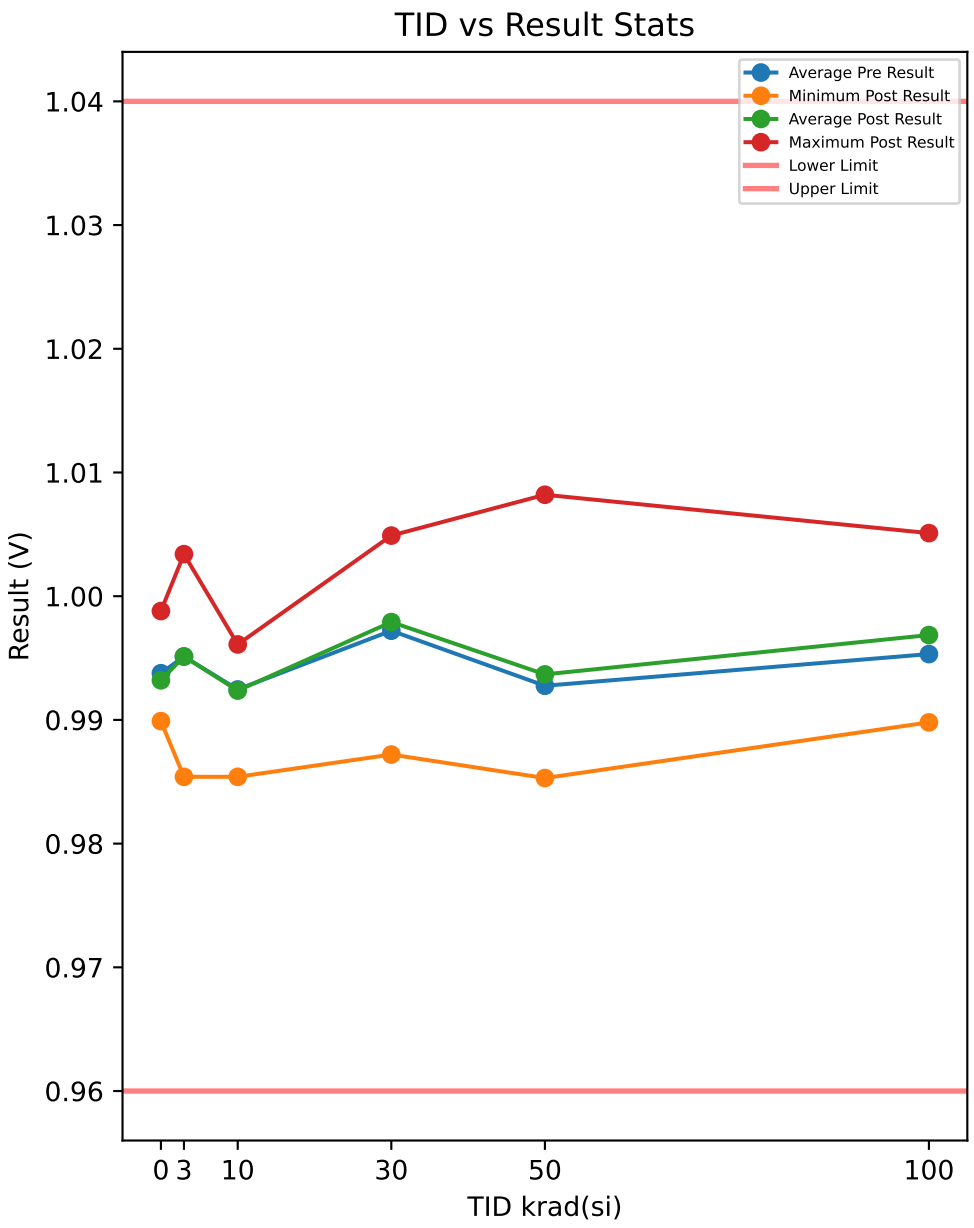
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

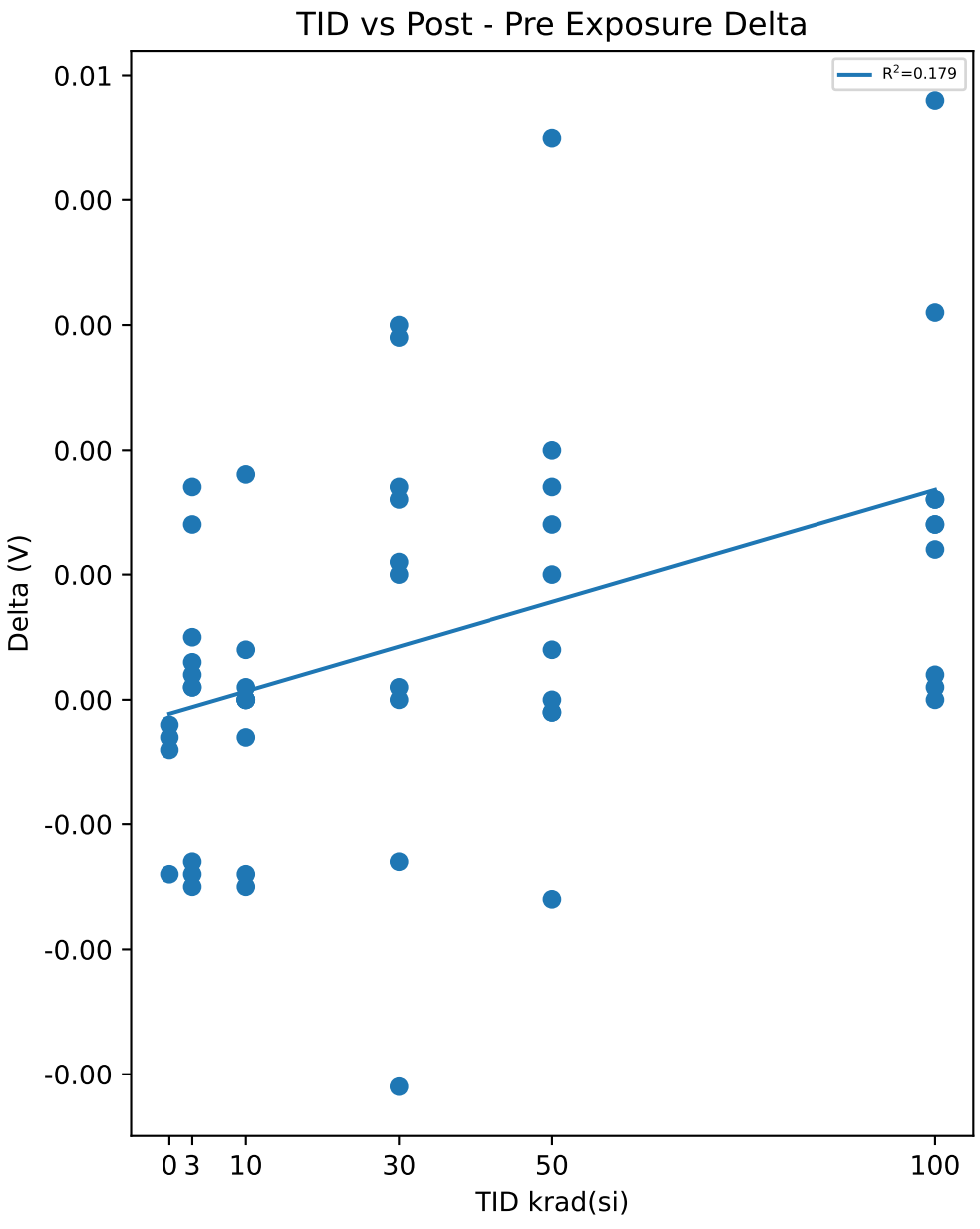
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.0004	1.0003	-0.0001
2	3	HDR BIAS	1.0004	1.0004	0
3	3	HDR BIAS	0.9945	0.9946	0.0001
4	3	HDR BIAS	1.0033	1.0034	0.0001
5	3	HDR BIAS	0.9884	0.9883	-0.0001
6	3	HDR UNBIAS	0.9899	0.9913	0.0014
7	3	HDR UNBIAS	1.0019	1.0004	-0.0015
8	3	HDR UNBIAS	0.9927	0.9943	0.0016
9	3	HDR UNBIAS	0.9945	0.9946	0.0001
10	3	HDR UNBIAS	0.9839	0.9857	0.0018
11	10	HDR BIAS	0.9948	0.9947	-0.0001
12	10	HDR BIAS	0.9916	0.9916	0
13	10	HDR BIAS	0.9928	0.9931	0.0003
14	10	HDR BIAS	0.9917	0.9932	0.0015
15	10	HDR BIAS	0.9944	0.9961	0.0017
16	10	HDR UNBIAS	0.9883	0.9869	-0.0014
17	10	HDR UNBIAS	0.9973	0.9959	-0.0014
18	10	HDR UNBIAS	0.987	0.9858	-0.0012
19	10	HDR UNBIAS	0.996	0.9946	-0.0014
20	10	HDR UNBIAS	0.9927	0.9929	0.0002
31	30	HDR BIAS	1.002	1.0049	0.0029
32	30	HDR BIAS	1.0006	1.0019	0.0013
33	30	HDR BIAS	1.0003	1.0034	0.0031
34	30	HDR BIAS	0.9959	0.9945	-0.0014
35	30	HDR BIAS	0.9916	0.9931	0.0015
36	30	HDR UNBIAS	0.9915	0.9916	0.0001
37	30	HDR UNBIAS	1.0004	0.9991	-0.0013
38	30	HDR UNBIAS	0.9867	0.9869	0.0002
39	30	HDR UNBIAS	1.0036	1.0022	-0.0014
40	30	HDR UNBIAS	0.999	0.9989	-0.0001
41	50	HDR BIAS	0.9914	0.9932	0.0018
42	50	HDR BIAS	0.9989	0.9991	0.0002
43	50	HDR BIAS	0.9868	0.987	0.0002
44	50	HDR BIAS	0.9914	0.9928	0.0014
45	50	HDR BIAS	0.993	0.9928	-0.0002
46	50	HDR UNBIAS	0.9972	0.9978	0.0006
47	50	HDR UNBIAS	0.9897	0.9884	-0.0013
48	50	HDR UNBIAS	0.9839	0.9854	0.0015
49	50	HDR UNBIAS	0.9914	0.9943	0.0029
50	50	HDR UNBIAS	1.0067	1.0082	0.0015
51	100	HDR BIAS	1.0048	1.0051	0.0003
52	100	HDR BIAS	0.9944	0.9959	0.0015
53	100	HDR BIAS	0.9896	0.9914	0.0018
54	100	HDR BIAS	0.9973	0.9991	0.0018
55	100	HDR BIAS	0.9927	0.9976	0.0049
56	100	HDR UNBIAS	0.9899	0.9898	-0.0001
57	100	HDR UNBIAS	0.9941	0.9944	0.0003
58	100	HDR UNBIAS	0.9958	0.9959	0.0001
59	100	HDR UNBIAS	0.9986	1.0007	0.0021
60	100	HDR UNBIAS	0.9944	0.9959	0.0015
91	0	CORRELATION	0.9973	0.9989	0.0016
92	0	CORRELATION	0.9929	0.9929	0
93	0	CORRELATION	0.9914	0.99	-0.0014
94	0	CORRELATION	0.9919	0.9901	-0.0018

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9914	0.99338	0.9973	0.00269	0.99	0.99297	0.9989	0.0041724	-0.0018	-0.0004	0.0016	0.0015406
3	0.9839	0.99499	1.0033	0.0064411	0.9857	0.99533	1.0034	0.0057904	-0.0015	0.00034	0.0018	0.00099465
10	0.987	0.99266	0.9973	0.0032215	0.9858	0.99248	0.9961	0.0035251	-0.0014	-0.00018	0.0017	0.0011679
30	0.9867	0.99716	1.0036	0.0055219	0.9869	0.99765	1.0049	0.0058769	-0.0014	0.00049	0.0031	0.0016743
50	0.9839	0.99304	1.0067	0.0064974	0.9854	0.9939	1.0082	0.006666	-0.0013	0.00086	0.0029	0.0011965
100	0.9896	0.99516	1.0048	0.0044305	0.9898	0.99658	1.0051	0.0044209	-0.0001	0.00142	0.0049	0.0014695

Device Test: 28.18 VOLTAGE|OC/CS/8/8/0/0/5/500kHz//@V_CS_ILIM_OC





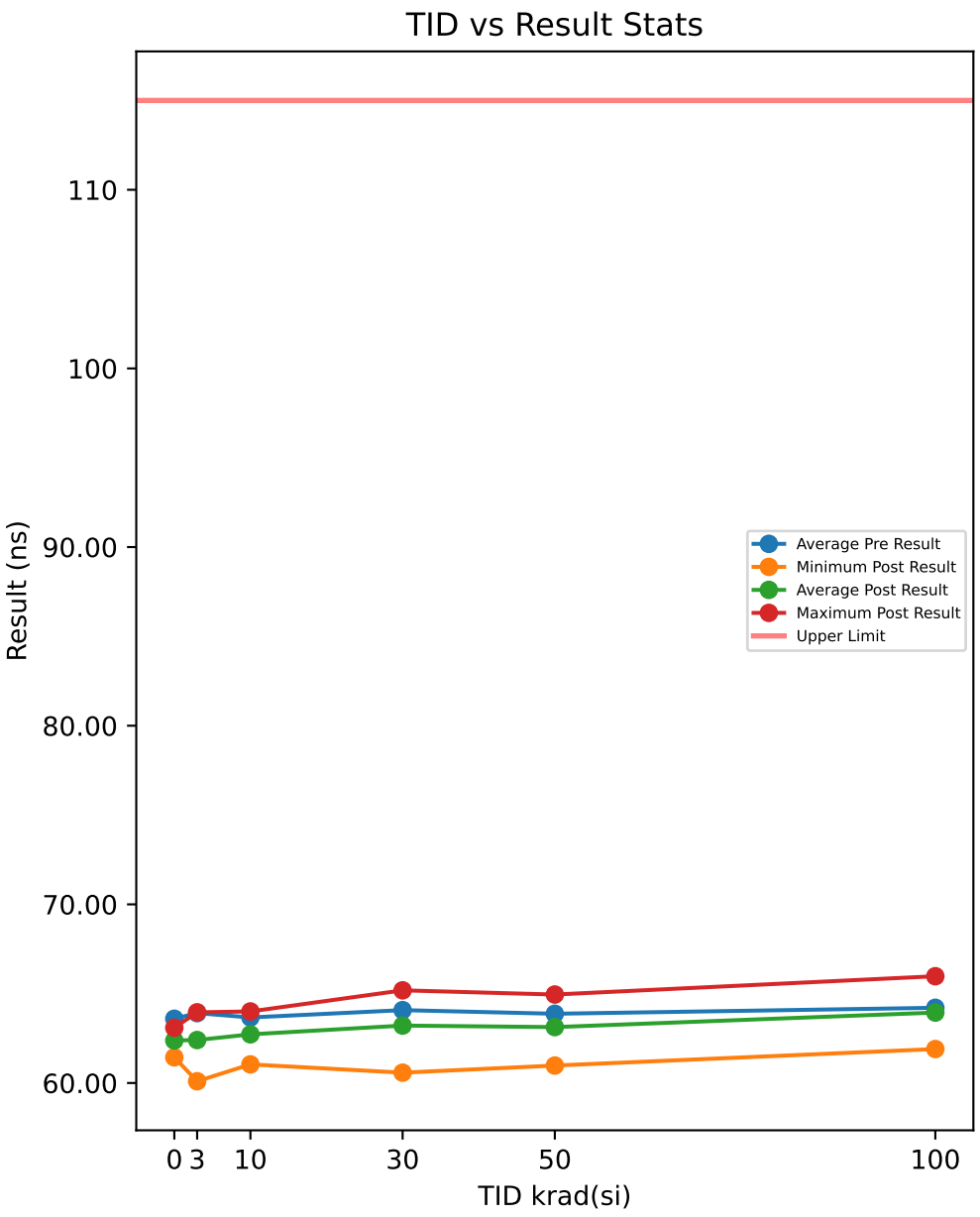
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

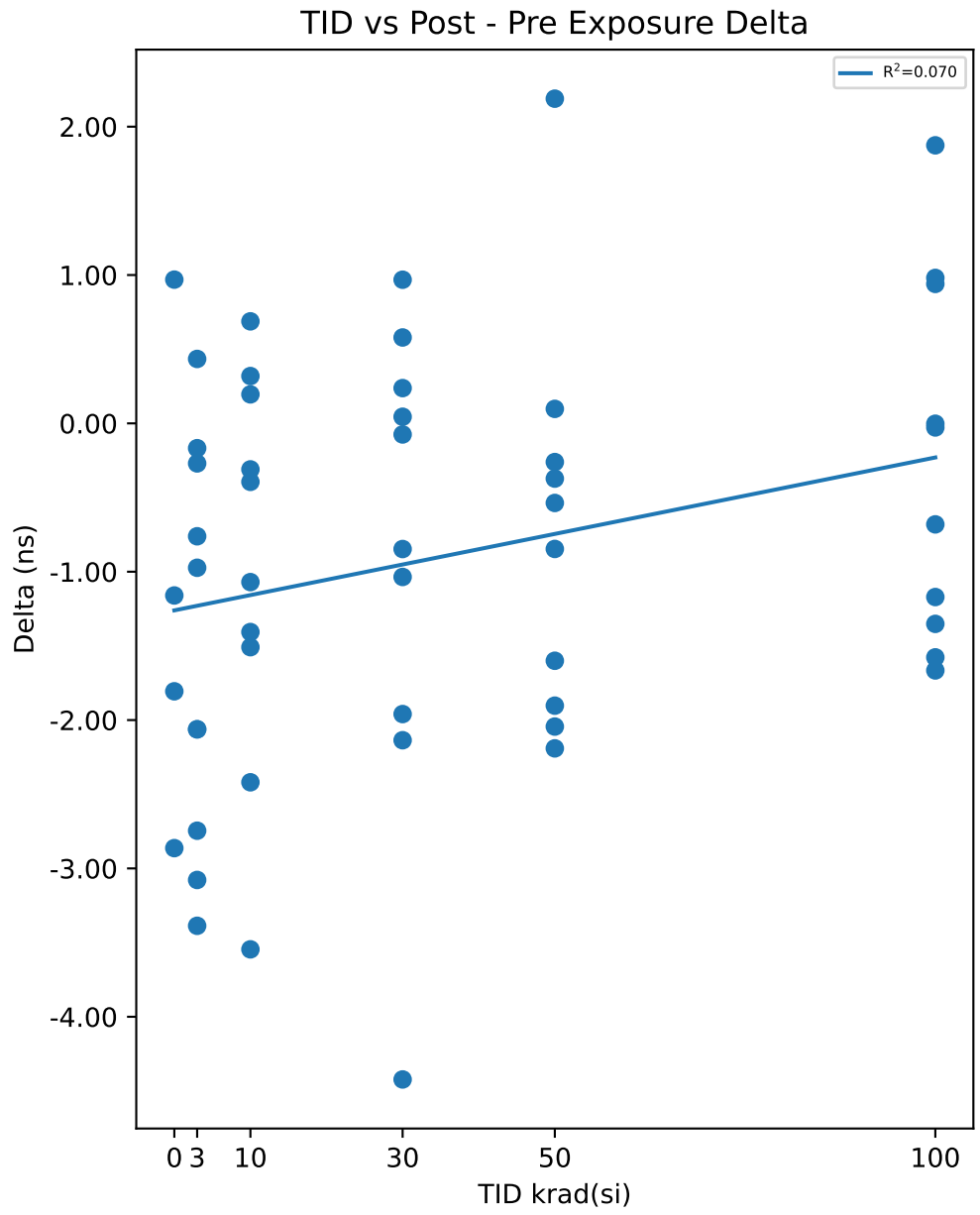
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.0004	1.0007	0.0003
2	3	HDR BIAS	1.0003	1.0008	0.0005
3	3	HDR BIAS	0.9945	0.9946	0.0001
4	3	HDR BIAS	1.0033	1.0034	0.0001
5	3	HDR BIAS	0.9884	0.9886	0.0002
6	3	HDR UNBIAS	0.9913	0.99	-0.0013
7	3	HDR UNBIAS	1.002	1.0006	-0.0014
8	3	HDR UNBIAS	0.9927	0.9944	0.0017
9	3	HDR UNBIAS	0.9943	0.9928	-0.0015
10	3	HDR UNBIAS	0.984	0.9854	0.0014
11	10	HDR BIAS	0.9943	0.9961	0.0018
12	10	HDR BIAS	0.9916	0.9916	0
13	10	HDR BIAS	0.9928	0.9932	0.0004
14	10	HDR BIAS	0.9914	0.9915	0.0001
15	10	HDR BIAS	0.9959	0.9959	0
16	10	HDR UNBIAS	0.9884	0.9869	-0.0015
17	10	HDR UNBIAS	0.9959	0.9959	0
18	10	HDR UNBIAS	0.9868	0.9854	-0.0014
19	10	HDR UNBIAS	0.9944	0.9944	0
20	10	HDR UNBIAS	0.9931	0.9928	-0.0003
31	30	HDR BIAS	1.0019	1.0049	0.003
32	30	HDR BIAS	1.0008	1.0019	0.0011
33	30	HDR BIAS	1.0005	1.0034	0.0029
34	30	HDR BIAS	0.9944	0.9944	0
35	30	HDR BIAS	0.9919	0.9929	0.001
36	30	HDR UNBIAS	0.9913	0.993	0.0017
37	30	HDR UNBIAS	1.0019	0.9988	-0.0031
38	30	HDR UNBIAS	0.9871	0.9872	0.0001
39	30	HDR UNBIAS	1.0035	1.0022	-0.0013
40	30	HDR UNBIAS	0.9988	1.0004	0.0016
41	50	HDR BIAS	0.9914	0.9928	0.0014
42	50	HDR BIAS	0.999	0.9989	-0.0001
43	50	HDR BIAS	0.9869	0.9869	0
44	50	HDR BIAS	0.9918	0.9928	0.001
45	50	HDR BIAS	0.993	0.9914	-0.0016
46	50	HDR UNBIAS	0.9973	0.9977	0.0004
47	50	HDR UNBIAS	0.9886	0.9885	-0.0001
48	50	HDR UNBIAS	0.9836	0.9853	0.0017
49	50	HDR UNBIAS	0.9898	0.9943	0.0045
50	50	HDR UNBIAS	1.0062	1.0082	0.002
51	100	HDR BIAS	1.0049	1.0051	0.0002
52	100	HDR BIAS	0.9945	0.9959	0.0014
53	100	HDR BIAS	0.9902	0.9914	0.0012
54	100	HDR BIAS	0.9973	0.9989	0.0016
55	100	HDR BIAS	0.9929	0.9977	0.0048
56	100	HDR UNBIAS	0.9897	0.9898	0.0001
57	100	HDR UNBIAS	0.9943	0.9959	0.0016
58	100	HDR UNBIAS	0.9959	0.9959	0
59	100	HDR UNBIAS	0.9992	1.0006	0.0014
60	100	HDR UNBIAS	0.9943	0.9974	0.0031
91	0	CORRELATION	0.9992	0.9988	-0.0004
92	0	CORRELATION	0.993	0.9927	-0.0003
93	0	CORRELATION	0.9913	0.9899	-0.0014
94	0	CORRELATION	0.9916	0.9914	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9913	0.99377	0.9992	0.0036918	0.9899	0.9932	0.9988	0.0039047	-0.0014	-0.000575	-0.0002	0.00055603
3	0.984	0.99512	1.0033	0.0063182	0.9854	0.99513	1.0034	0.0060678	-0.0015	1e-05	0.0017	0.001113
10	0.9868	0.99246	0.9959	0.0030134	0.9854	0.99237	0.9961	0.0037071	-0.0015	-9e-05	0.0018	0.00092069
30	0.9871	0.99721	1.0035	0.0056078	0.9872	0.99791	1.0049	0.0057402	-0.0031	0.0007	0.003	0.0018702
50	0.9836	0.99276	1.0062	0.0065602	0.9853	0.99368	1.0082	0.0067032	-0.0016	0.00092	0.0045	0.0016457
100	0.9897	0.99532	1.0049	0.0044409	0.9898	0.99686	1.0051	0.0043393	0	0.00154	0.0048	0.0014706

Device Test: 28.19 TIMING|DELAY/CS/8/8/0/0/5/100kHz//@CS_ILIM_DELAY





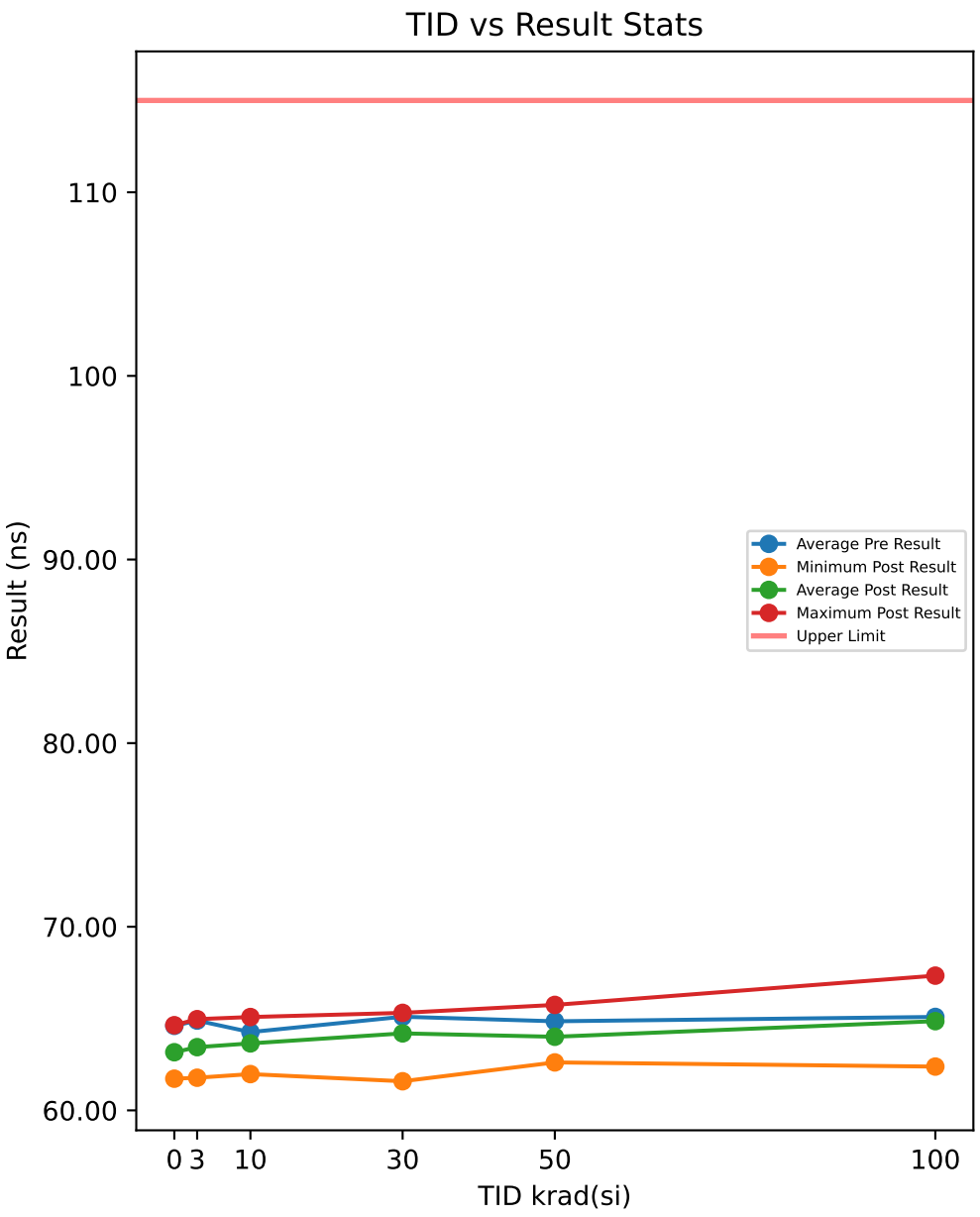
Test Results (Upper Limit = 115.0 (ns))

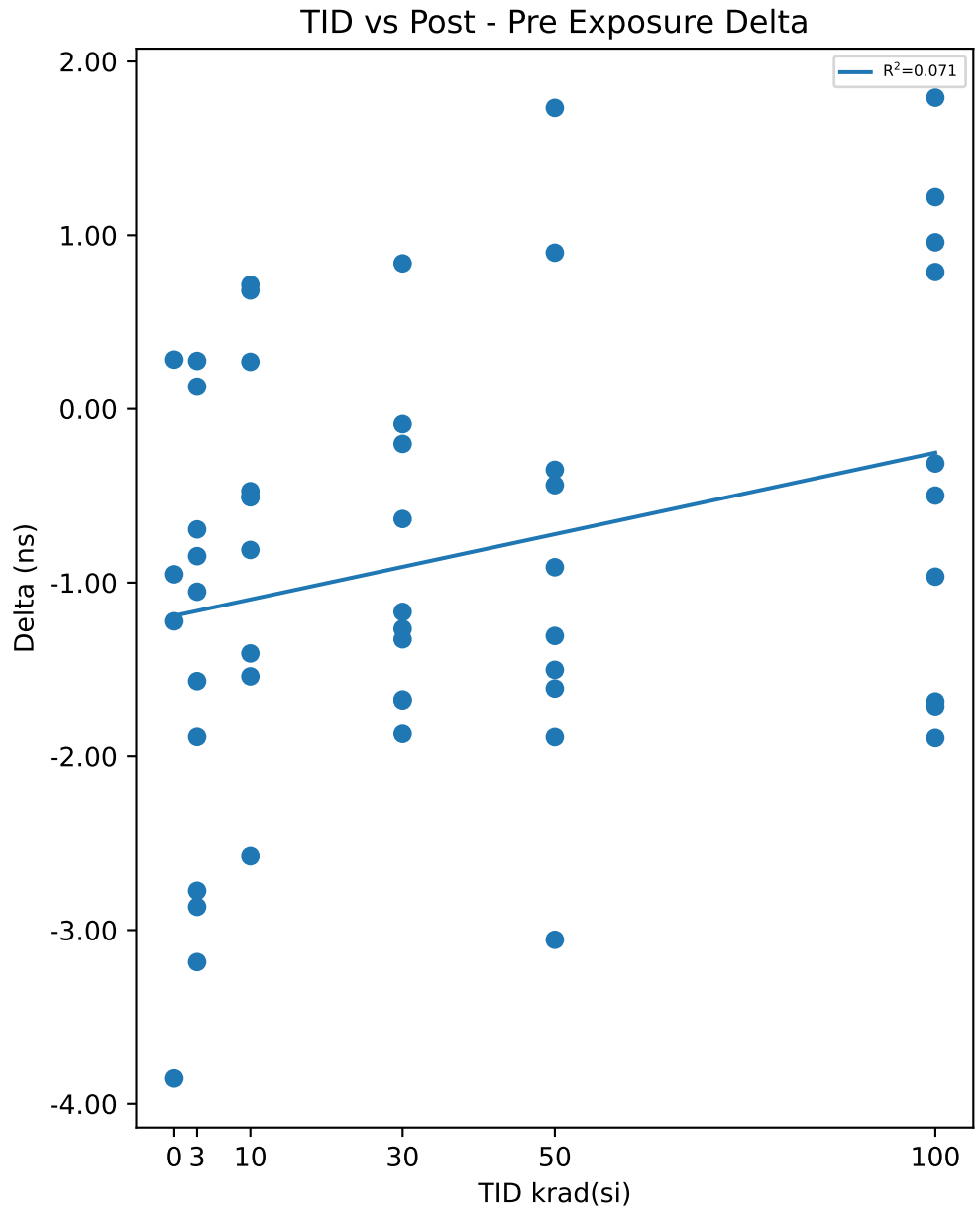
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	64.226	63.956	-0.2698
2	3	HDR BIAS	64.934	61.547	-3.3868
3	3	HDR BIAS	63.872	63.705	-0.1673
4	3	HDR BIAS	64.301	63.54	-0.7611
5	3	HDR BIAS	64.575	61.83	-2.7458
6	3	HDR UNBIAS	64.418	61.341	-3.0778
7	3	HDR UNBIAS	63.209	63.644	0.4344
8	3	HDR UNBIAS	63.556	62.583	-0.9734
9	3	HDR UNBIAS	63.868	61.806	-2.0619
10	3	HDR UNBIAS	62.16	60.097	-2.0626
11	10	HDR BIAS	63.317	64.005	0.6877
12	10	HDR BIAS	65.295	63.786	-1.5086
13	10	HDR BIAS	62.449	61.042	-1.4066
14	10	HDR BIAS	63.708	61.288	-2.4194
15	10	HDR BIAS	64.252	63.858	-0.3942
16	10	HDR UNBIAS	63.117	62.806	-0.3102
17	10	HDR UNBIAS	63.643	62.573	-1.07
18	10	HDR UNBIAS	64.863	61.318	-3.5456
19	10	HDR UNBIAS	63.55	63.87	0.319
20	10	HDR UNBIAS	62.494	62.689	0.1955
31	30	HDR BIAS	63.515	64.484	0.9683
32	30	HDR BIAS	64.058	63.983	-0.0747
33	30	HDR BIAS	65.626	61.203	-4.4226
34	30	HDR BIAS	64.289	62.329	-1.9595
35	30	HDR BIAS	63.893	64.472	0.579
36	30	HDR UNBIAS	64.338	63.49	-0.8471
37	30	HDR UNBIAS	64.359	63.324	-1.0352
38	30	HDR UNBIAS	62.714	60.578	-2.1359
39	30	HDR UNBIAS	64.949	65.187	0.2378
40	30	HDR UNBIAS	63.053	63.097	0.0446
41	50	HDR BIAS	64.834	62.931	-1.9028
42	50	HDR BIAS	65.294	63.25	-2.0438
43	50	HDR BIAS	62.763	64.952	2.1888
44	50	HDR BIAS	64.735	64.474	-0.2608
45	50	HDR BIAS	63.072	62.225	-0.8465
46	50	HDR UNBIAS	62.576	60.976	-1.6002
47	50	HDR UNBIAS	64.739	64.367	-0.3722
48	50	HDR UNBIAS	63.459	62.922	-0.5365
49	50	HDR UNBIAS	62.721	62.819	0.0977
50	50	HDR UNBIAS	64.569	62.379	-2.1908
51	100	HDR BIAS	65.036	65.976	0.94
52	100	HDR BIAS	64.484	65.465	0.9806
53	100	HDR BIAS	64.604	64.576	-0.0275
54	100	HDR BIAS	64.547	62.97	-1.5773
55	100	HDR BIAS	63.009	64.883	1.8743
56	100	HDR UNBIAS	64.362	63.191	-1.1706
57	100	HDR UNBIAS	64.015	62.35	-1.6654
58	100	HDR UNBIAS	62.582	61.901	-0.6809
59	100	HDR UNBIAS	65.665	65.662	-0.0025
60	100	HDR UNBIAS	63.796	62.444	-1.3516
91	0	CORRELATION	64.688	62.882	-1.8061
92	0	CORRELATION	64.3	61.437	-2.8632
93	0	CORRELATION	62.123	63.093	0.969
94	0	CORRELATION	63.273	62.113	-1.1601

Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.123	63.596	64.688	1.1492	61.437	62.381	63.093	0.75724	-2.8632	-1.2151	0.969	1.6165
3	62.16	63.912	64.934	0.79483	60.097	62.405	63.956	1.2839	-3.3868	-1.5072	0.4344	1.337
10	62.449	63.669	65.295	0.92653	61.042	62.724	64.005	1.1674	-3.5456	-0.94524	0.6877	1.323
30	62.714	64.079	65.626	0.85684	60.578	63.215	65.187	1.4739	-4.4226	-0.86453	0.9683	1.6198
50	62.576	63.876	65.294	1.0527	60.976	63.13	64.952	1.1959	-2.1908	-0.74671	2.1888	1.3163
100	62.582	64.21	65.665	0.91094	61.901	63.942	65.976	1.5331	-1.6654	-0.26809	1.8743	1.2276

Device Test: 28.20 TIMING|DELAY/CS/8/8/0/1000/5/100kHz//@CS_ILIM_DELAY





Test Results (Upper Limit = 115.0 (ns))

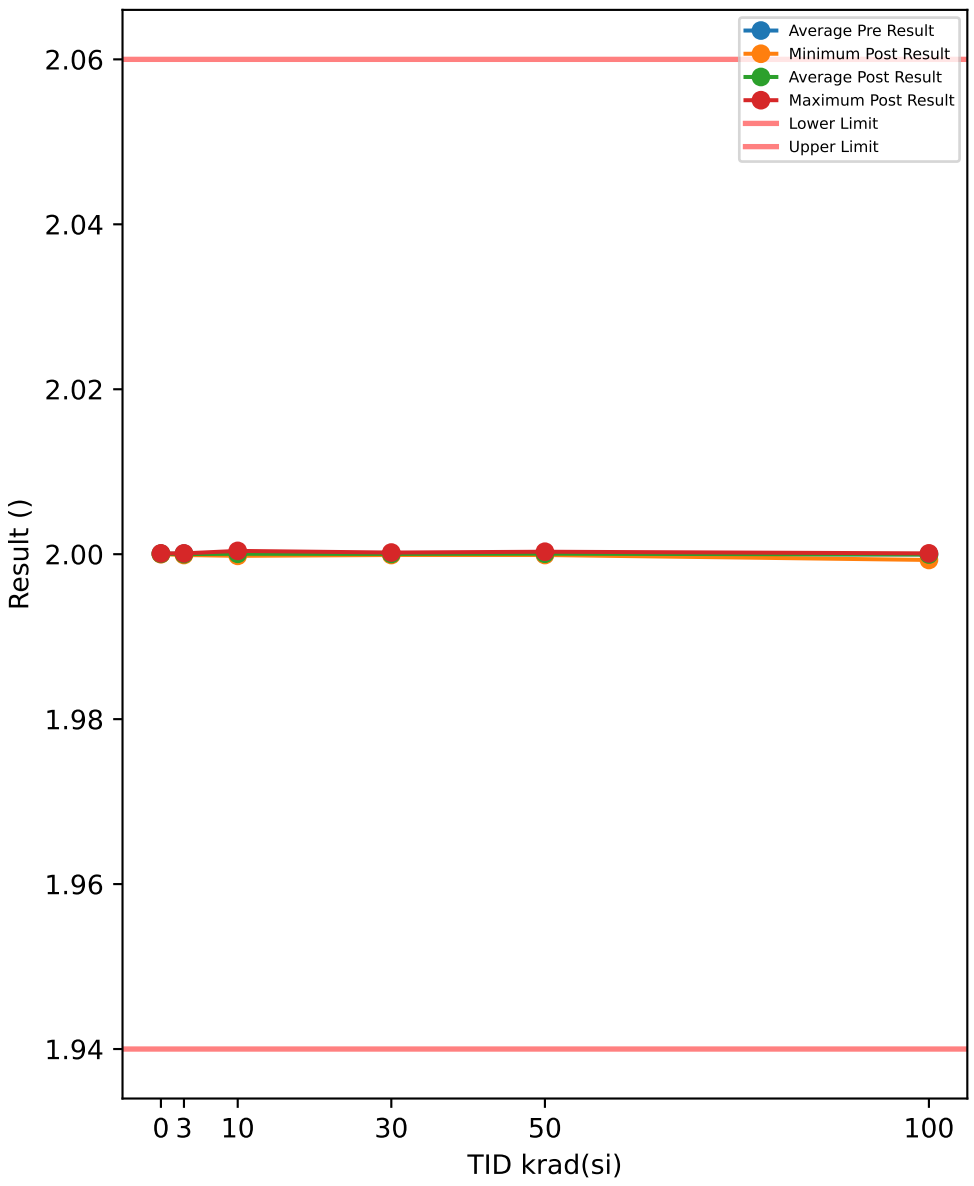
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	65.482	64.789	-0.6935
2	3	HDR BIAS	65.325	62.551	-2.7737
3	3	HDR BIAS	65.169	64.322	-0.8475
4	3	HDR BIAS	64.62	64.897	0.2765
5	3	HDR BIAS	65.157	62.291	-2.8662
6	3	HDR UNBIAS	65.581	62.397	-3.1842
7	3	HDR UNBIAS	64.839	64.968	0.1282
8	3	HDR UNBIAS	64.598	63.545	-1.0524
9	3	HDR UNBIAS	64.464	62.897	-1.567
10	3	HDR UNBIAS	63.666	61.778	-1.8889
11	10	HDR BIAS	63.752	64.433	0.6817
12	10	HDR BIAS	65.883	65.072	-0.8117
13	10	HDR BIAS	62.449	61.975	-0.4735
14	10	HDR BIAS	63.636	62.229	-1.4076
15	10	HDR BIAS	64.692	64.186	-0.5058
16	10	HDR UNBIAS	64.189	64.46	0.2714
17	10	HDR UNBIAS	64.847	63.308	-1.5397
18	10	HDR UNBIAS	65.579	63.004	-2.5747
19	10	HDR UNBIAS	64.369	65.083	0.7147
20	10	HDR UNBIAS	63.23	62.721	-0.5089
31	30	HDR BIAS	64.428	65.266	0.838
32	30	HDR BIAS	65.279	64.11	-1.1684
33	30	HDR BIAS	66.53	65.265	-1.2656
34	30	HDR BIAS	65.078	63.406	-1.6722
35	30	HDR BIAS	65.087	64.886	-0.2013
36	30	HDR UNBIAS	65.558	63.687	-1.8712
37	30	HDR UNBIAS	65.084	63.757	-1.3262
38	30	HDR UNBIAS	63.263	61.585	-1.6777
39	30	HDR UNBIAS	65.944	65.31	-0.6335
40	30	HDR UNBIAS	64.745	64.658	-0.0872
41	50	HDR BIAS	65.258	63.756	-1.502
42	50	HDR BIAS	66.607	63.551	-3.056
43	50	HDR BIAS	64.011	65.743	1.7329
44	50	HDR BIAS	65.311	64.961	-0.3503
45	50	HDR BIAS	64.221	62.612	-1.6095
46	50	HDR UNBIAS	63.645	62.733	-0.9113
47	50	HDR UNBIAS	64.549	65.448	0.8994
48	50	HDR UNBIAS	65.325	64.018	-1.3067
49	50	HDR UNBIAS	63.744	63.305	-0.439
50	50	HDR UNBIAS	65.847	63.957	-1.89
51	100	HDR BIAS	66.118	67.337	1.2189
52	100	HDR BIAS	64.496	66.287	1.7917
53	100	HDR BIAS	64.572	65.36	0.7881
54	100	HDR BIAS	65.493	63.81	-1.6837
55	100	HDR BIAS	64.789	65.748	0.9593
56	100	HDR UNBIAS	65.11	64.796	-0.3139
57	100	HDR UNBIAS	65.028	63.316	-1.7114
58	100	HDR UNBIAS	64.28	62.385	-1.8952
59	100	HDR UNBIAS	66.14	65.642	-0.4987
60	100	HDR UNBIAS	64.865	63.899	-0.9657
91	0	CORRELATION	65.59	64.638	-0.9521
92	0	CORRELATION	65.58	61.726	-3.8543
93	0	CORRELATION	62.858	63.142	0.284
94	0	CORRELATION	64.382	63.16	-1.2227

Test Statistics (ns)

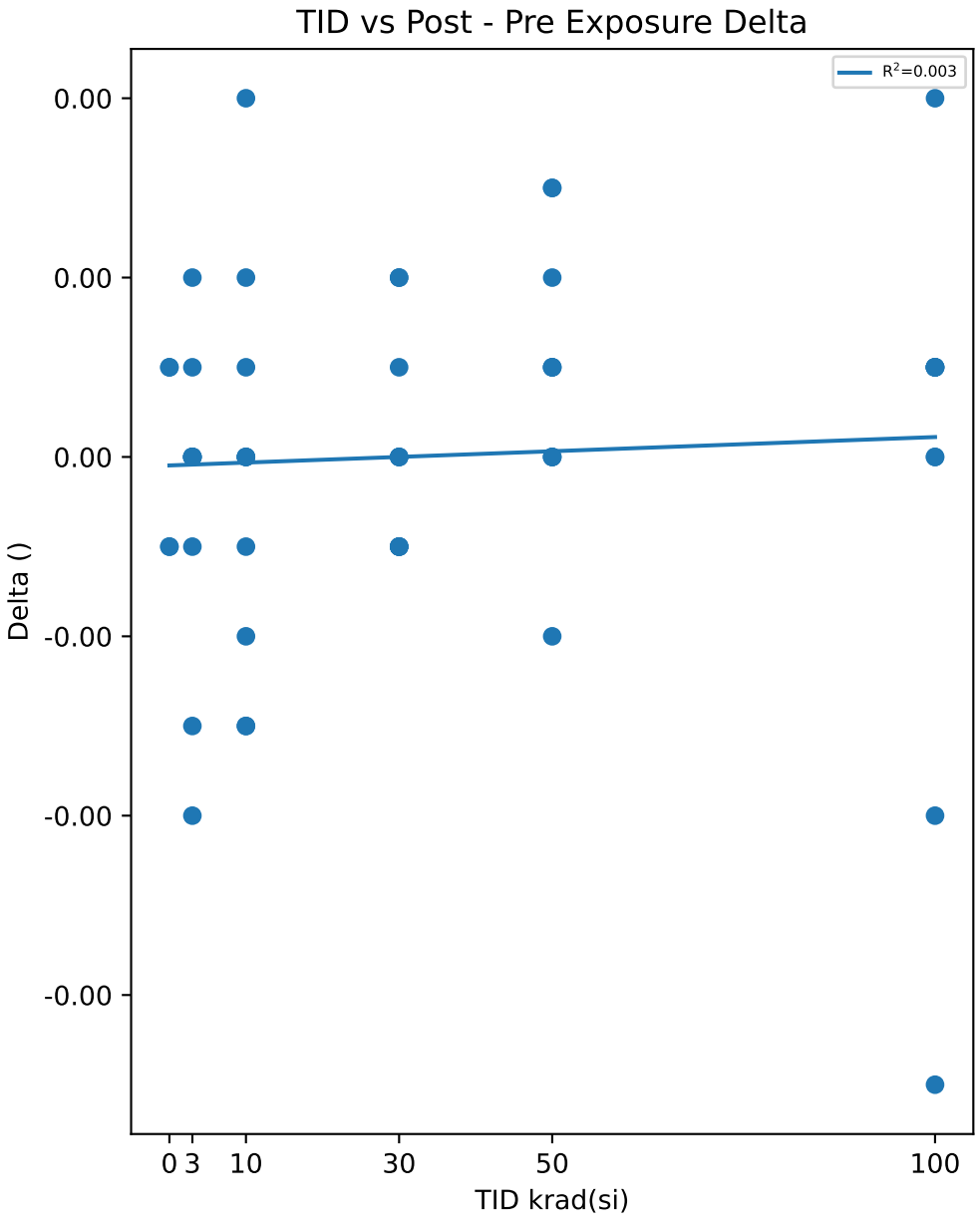
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.858	64.603	65.59	1.2937	61.726	63.166	64.638	1.1891	-3.8543	-1.4363	0.284	1.7403
3	63.666	64.89	65.581	0.57786	61.778	63.443	64.968	1.2166	-3.1842	-1.4469	0.2765	1.2264
10	62.449	64.263	65.883	1.0493	61.975	63.647	65.083	1.1476	-2.5747	-0.61541	0.7147	1.035
30	63.263	65.1	66.53	0.87889	61.585	64.193	65.31	1.1603	-1.8712	-0.90653	0.838	0.86742
50	63.645	64.852	66.607	0.97477	62.612	64.008	65.743	1.0717	-3.056	-0.84325	1.7329	1.3869
100	64.28	65.089	66.14	0.6453	62.385	64.858	67.337	1.5043	-1.8952	-0.23106	1.7917	1.3474

Device Test: 28.3 LEVEL|RATIO/CS/12/12/0/0/5/500kHz//@C_CS_R

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

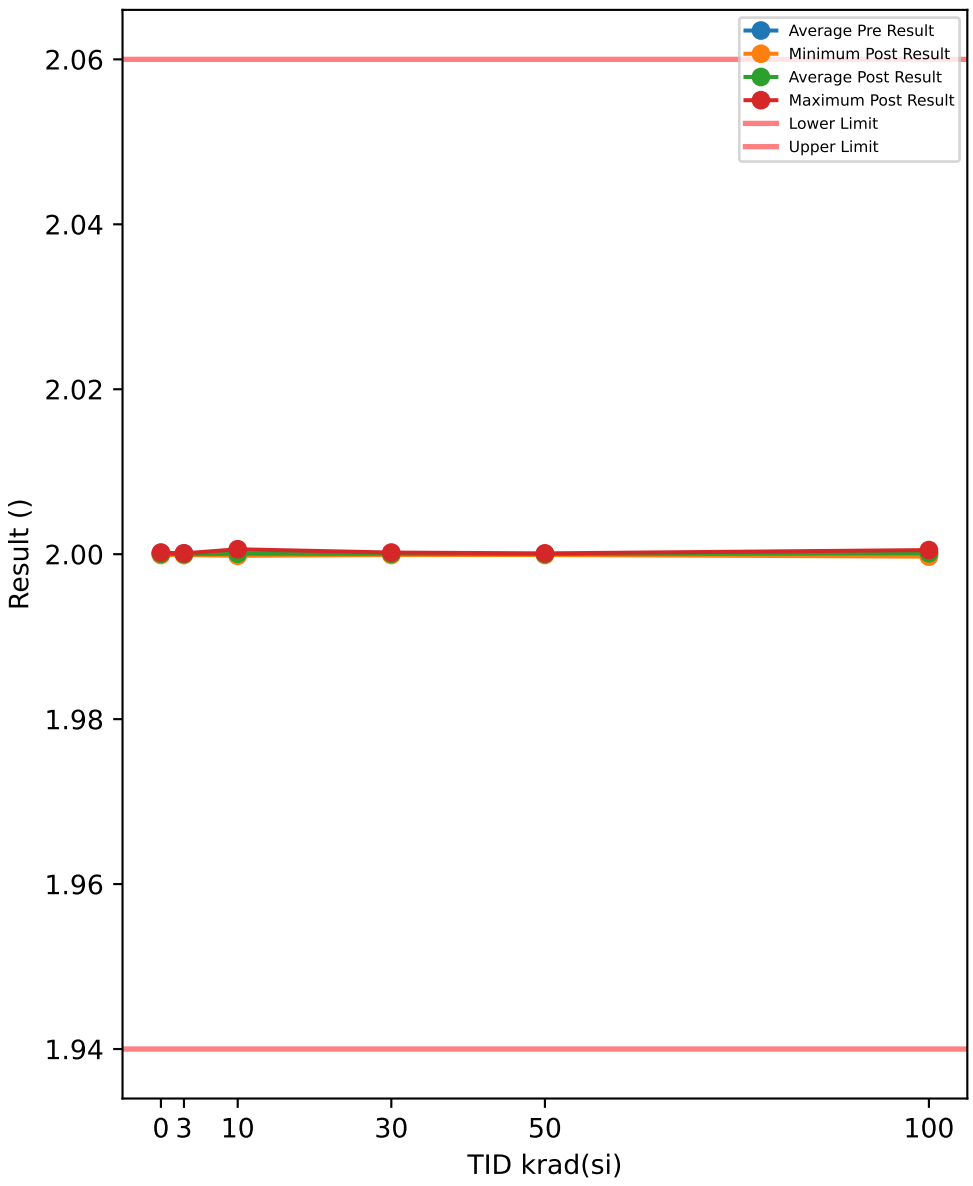
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.9999	1.9999	0
2	3	HDR BIAS	1.9999	2.0001	0.0002
3	3	HDR BIAS	2	2	0
4	3	HDR BIAS	1.9999	1.9999	0
5	3	HDR BIAS	2.0002	2.0001	-0.0001
6	3	HDR UNBIAS	1.9998	1.9999	0.0001
7	3	HDR UNBIAS	2	2	0
8	3	HDR UNBIAS	2.0004	2	-0.0004
9	3	HDR UNBIAS	2.0004	2.0001	-0.0003
10	3	HDR UNBIAS	2.0001	2.0001	0
11	10	HDR BIAS	2.0002	2.0001	-0.0001
12	10	HDR BIAS	2.0003	2	-0.0003
13	10	HDR BIAS	2.0001	1.9998	-0.0003
14	10	HDR BIAS	2	2.0004	0.0004
15	10	HDR BIAS	2	2	0
16	10	HDR UNBIAS	2	2.0001	0.0001
17	10	HDR UNBIAS	2.0001	2.0001	0
18	10	HDR UNBIAS	1.9999	2.0001	0.0002
19	10	HDR UNBIAS	2	2	0
20	10	HDR UNBIAS	2.0001	1.9999	-0.0002
31	30	HDR BIAS	2	1.9999	-0.0001
32	30	HDR BIAS	2.0001	2	-0.0001
33	30	HDR BIAS	2.0001	2	-0.0001
34	30	HDR BIAS	1.9999	2	0.0001
35	30	HDR BIAS	1.9998	2	0.0002
36	30	HDR UNBIAS	2	1.9999	-0.0001
37	30	HDR UNBIAS	2	2	0
38	30	HDR UNBIAS	2.0002	2.0002	0
39	30	HDR UNBIAS	2.0001	2.0001	0
40	30	HDR UNBIAS	2	2.0002	0.0002
41	50	HDR BIAS	2	2.0001	0.0001
42	50	HDR BIAS	2	2.0003	0.0003
43	50	HDR BIAS	1.9999	2.0001	0.0002
44	50	HDR BIAS	2	2	0
45	50	HDR BIAS	1.9999	1.9999	0
46	50	HDR UNBIAS	2.0001	1.9999	-0.0002
47	50	HDR UNBIAS	2	2.0001	0.0001
48	50	HDR UNBIAS	2	2.0001	0.0001
49	50	HDR UNBIAS	2	2	0
50	50	HDR UNBIAS	1.9998	2.0001	0.0003
51	100	HDR BIAS	2	2.0001	0.0001
52	100	HDR BIAS	1.9999	1.9999	0
53	100	HDR BIAS	2	2.0001	0.0001
54	100	HDR BIAS	2	2.0001	0.0001
55	100	HDR BIAS	2	1.9993	-0.0007
56	100	HDR UNBIAS	1.9998	1.9998	0
57	100	HDR UNBIAS	2.0004	2	-0.0004
58	100	HDR UNBIAS	2	2.0001	0.0001
59	100	HDR UNBIAS	1.9997	2.0001	0.0004
60	100	HDR UNBIAS	2	2.0001	0.0001
91	0	CORRELATION	2.0001	2	-0.0001
92	0	CORRELATION	2	2.0001	0.0001
93	0	CORRELATION	2	2.0001	0.0001
94	0	CORRELATION	2.0001	2	-0.0001

Test Statistics ()

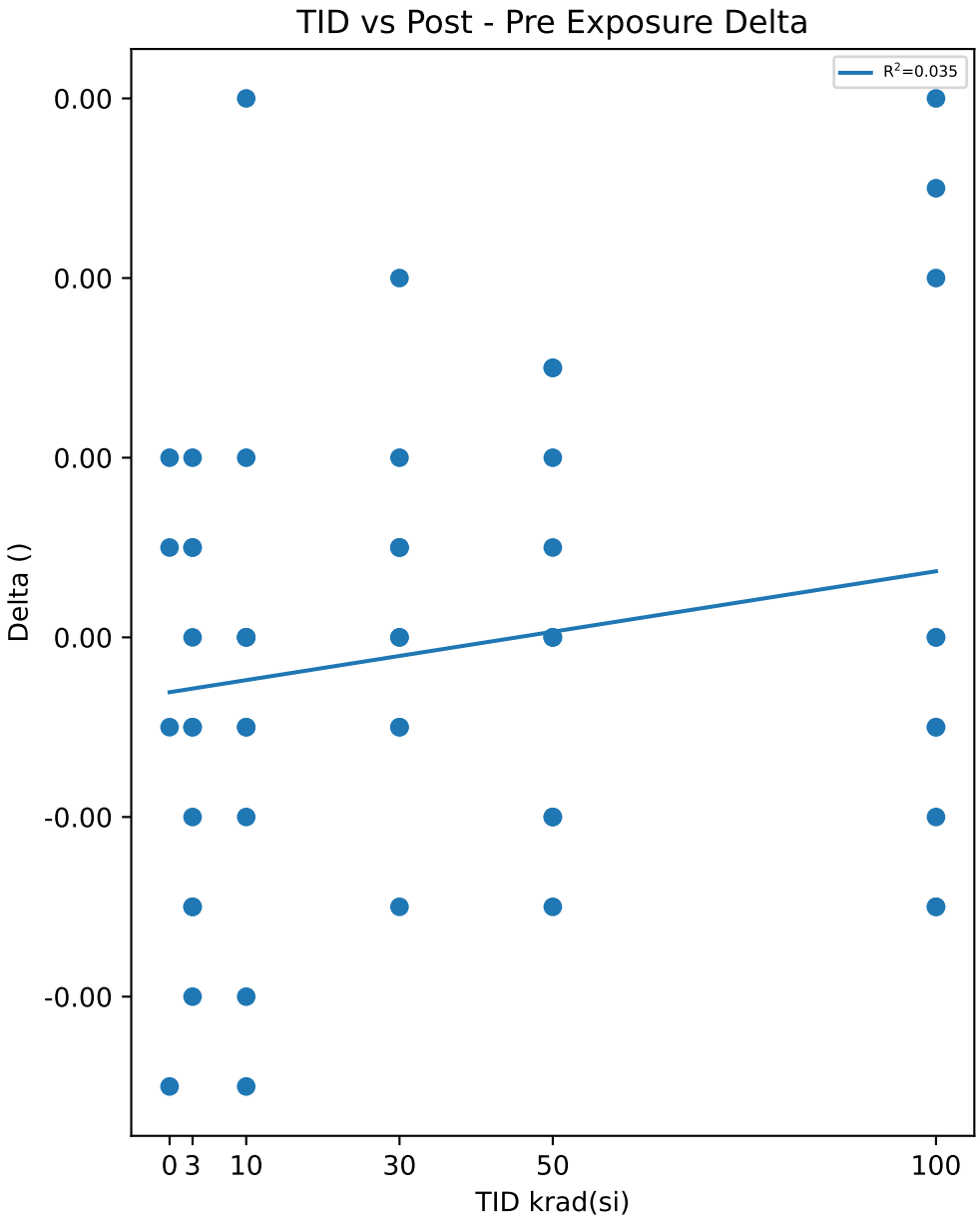
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2	2	2.0001	5.7735e-05	2	2	2.0001	5.7735e-05	-0.0001	0	0.0001	0.00011547
3	1.9998	2.0001	2.0004	0.00021187	1.9999	2	2.0001	8.756e-05	-0.0004	-5e-05	0.0002	0.00017795
10	1.9999	2.0001	2.0003	0.00011595	1.9998	2.0001	2.0004	0.00015811	-0.0003	-2e-05	0.0004	0.0002201
30	1.9998	2	2.0002	0.00011353	1.9999	2	2.0002	0.00010593	-0.0001	1e-05	0.0002	0.00011972
50	1.9998	2	2.0001	8.2327e-05	1.9999	2.0001	2.0003	0.00011738	-0.0002	9e-05	0.0003	0.00015239
100	1.9997	2	2.0004	0.00018135	1.9993	2	2.0001	0.00025473	-0.0007	-2e-05	0.0004	0.0003084

Device Test: 28.4 LEVEL|RATIO/CS/14/14/0/0/5/500kHz//@C_CS_R

TID vs Result Stats



TID vs Post - Pre Exposure Delta



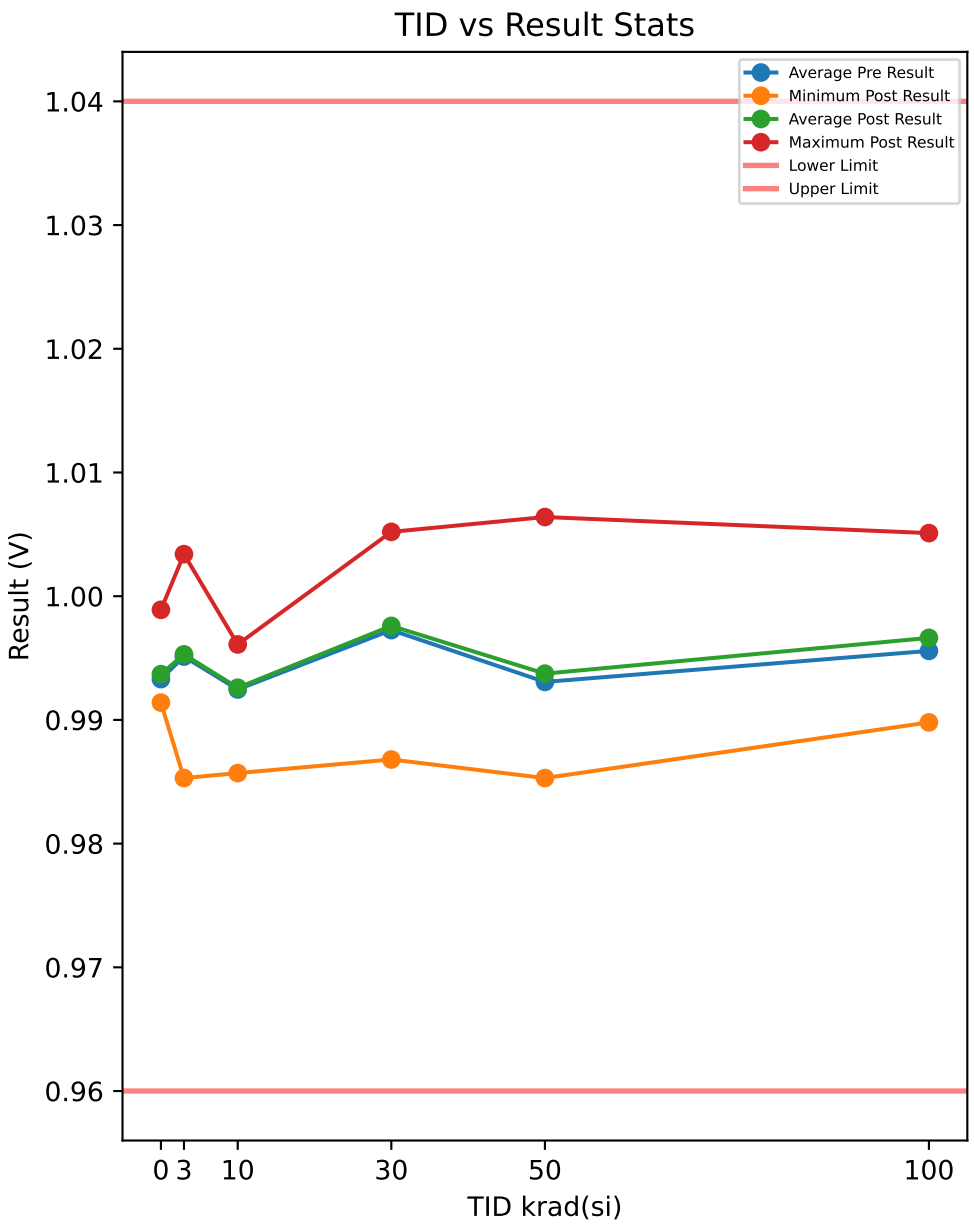
Test Results (Lower Limit = 1.94, Upper Limit = 2.06 ())

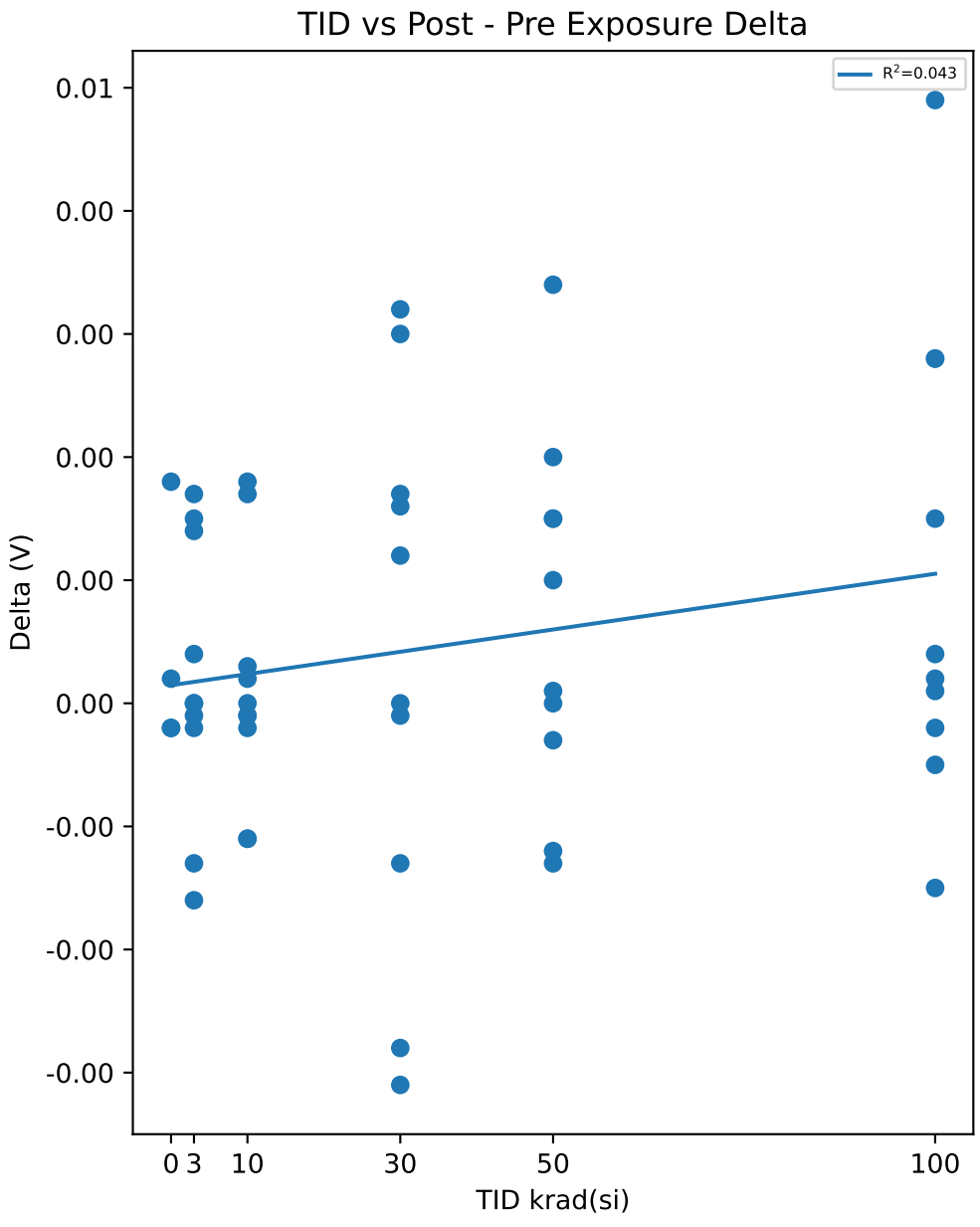
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	2	1.9999	-0.0001
2	3	HDR BIAS	2	2.0001	0.0001
3	3	HDR BIAS	2.0004	2.0001	-0.0003
4	3	HDR BIAS	2.0001	1.9999	-0.0002
5	3	HDR BIAS	1.9999	1.9999	0
6	3	HDR UNBIAS	2.0004	2.0001	-0.0003
7	3	HDR UNBIAS	2	1.9999	-0.0001
8	3	HDR UNBIAS	2	2.0001	0.0001
9	3	HDR UNBIAS	2.0003	1.9999	-0.0004
10	3	HDR UNBIAS	1.9999	2.0001	0.0002
11	10	HDR BIAS	2.0001	1.9999	-0.0002
12	10	HDR BIAS	2.0004	2	-0.0004
13	10	HDR BIAS	2	2	0
14	10	HDR BIAS	2	2.0006	0.0006
15	10	HDR BIAS	2.0005	2	-0.0005
16	10	HDR UNBIAS	2.0001	2.0001	0
17	10	HDR UNBIAS	2.0001	2.0001	0
18	10	HDR UNBIAS	1.9999	2.0001	0.0002
19	10	HDR UNBIAS	1.9999	1.9998	-0.0001
20	10	HDR UNBIAS	2.0001	2	-0.0001
31	30	HDR BIAS	1.9999	2	0.0001
32	30	HDR BIAS	2.0001	2.0001	0
33	30	HDR BIAS	1.9996	2	0.0004
34	30	HDR BIAS	2	1.9999	-0.0001
35	30	HDR BIAS	2	2.0001	0.0001
36	30	HDR UNBIAS	2.0004	2.0001	-0.0003
37	30	HDR UNBIAS	2	1.9999	-0.0001
38	30	HDR UNBIAS	1.9999	2.0001	0.0002
39	30	HDR UNBIAS	2.0001	2.0001	0
40	30	HDR UNBIAS	2.0001	2.0002	0.0001
41	50	HDR BIAS	2.0002	1.9999	-0.0003
42	50	HDR BIAS	2.0001	2.0001	0
43	50	HDR BIAS	1.9999	1.9999	0
44	50	HDR BIAS	2.0001	1.9999	-0.0002
45	50	HDR BIAS	2.0001	2.0001	0
46	50	HDR UNBIAS	1.9999	2.0001	0.0002
47	50	HDR UNBIAS	2.0001	1.9999	-0.0002
48	50	HDR UNBIAS	1.9998	2.0001	0.0003
49	50	HDR UNBIAS	2	2.0001	0.0001
50	50	HDR UNBIAS	1.9998	2.0001	0.0003
51	100	HDR BIAS	1.9999	2.0005	0.0006
52	100	HDR BIAS	2.0001	2	-0.0001
53	100	HDR BIAS	2.0003	2.0001	-0.0002
54	100	HDR BIAS	1.9999	2.0003	0.0004
55	100	HDR BIAS	2	2	0
56	100	HDR UNBIAS	2.0004	2.0001	-0.0003
57	100	HDR UNBIAS	2	2	0
58	100	HDR UNBIAS	2	2.0005	0.0005
59	100	HDR UNBIAS	2	1.9999	-0.0001
60	100	HDR UNBIAS	2	1.9997	-0.0003
91	0	CORRELATION	2.0001	2	-0.0001
92	0	CORRELATION	2.0004	1.9999	-0.0005
93	0	CORRELATION	2	2.0002	0.0002
94	0	CORRELATION	2	2.0001	0.0001

Test Statistics ()

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2	2.0001	2.0004	0.0001893	1.9999	2	2.0002	0.0001291	-0.0005	-7.5e-05	0.0002	0.00030957
3	1.9999	2.0001	2.0004	0.00019437	1.9999	2	2.0001	0.00010541	-0.0004	-0.0001	0.0002	0.0002
10	1.9999	2.0001	2.0005	0.00019692	1.9998	2.0001	2.0006	0.00021187	-0.0005	-5e-05	0.0006	0.00030641
30	1.9996	2	2.0004	0.00020248	1.9999	2.0001	2.0002	9.7183e-05	-0.0003	4e-05	0.0004	0.00018974
50	1.9998	2	2.0002	0.00014142	1.9999	2	2.0001	0.00010328	-0.0003	2e-05	0.0003	0.00020976
100	1.9999	2.0001	2.0004	0.00016465	1.9997	2.0001	2.0005	0.00025582	-0.0003	5e-05	0.0006	0.00033082

Device Test: 28.7 VOLTAGE|OC/CS/12/12/0/0/5/100kHz//@V_CS_ILIM_OC





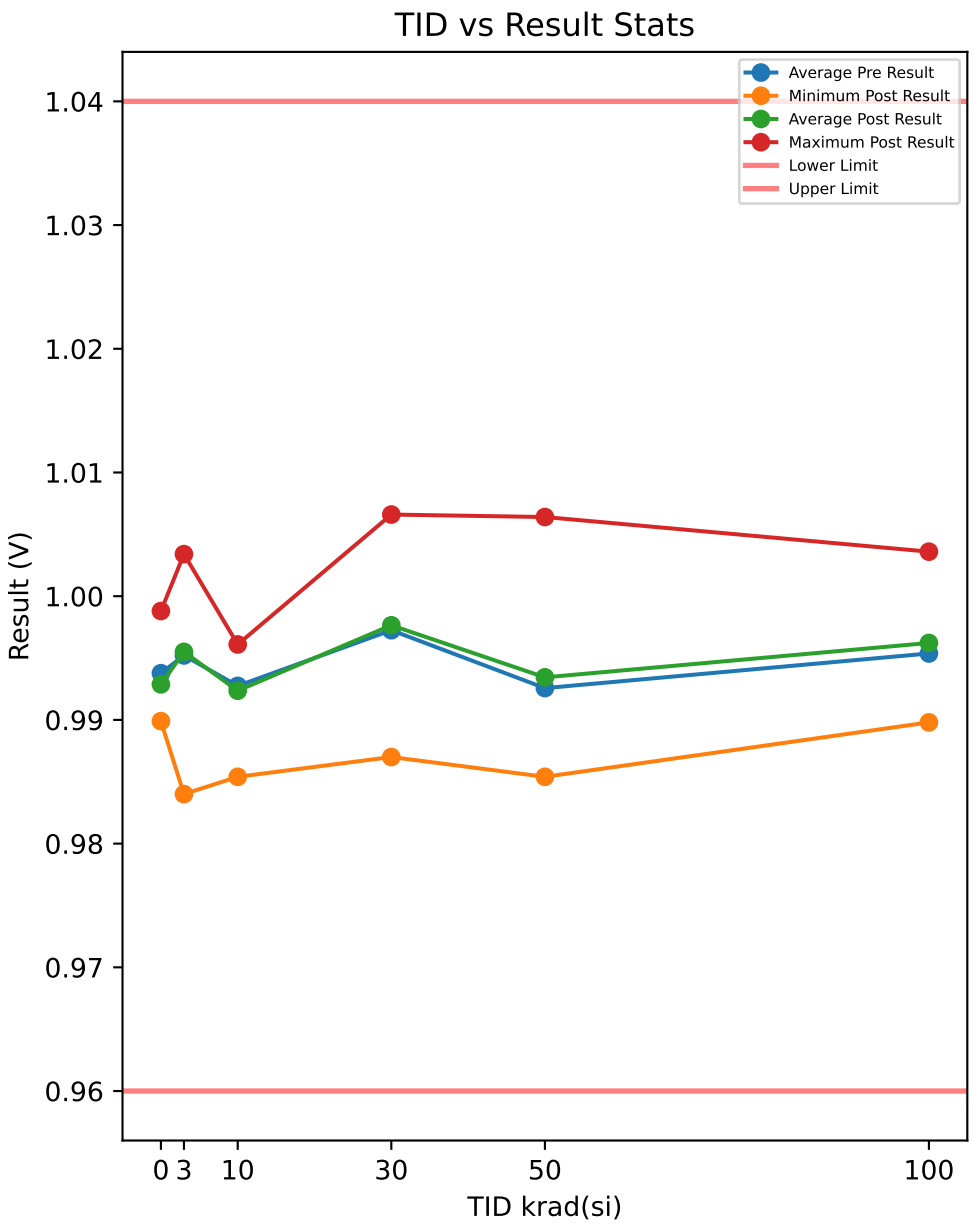
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

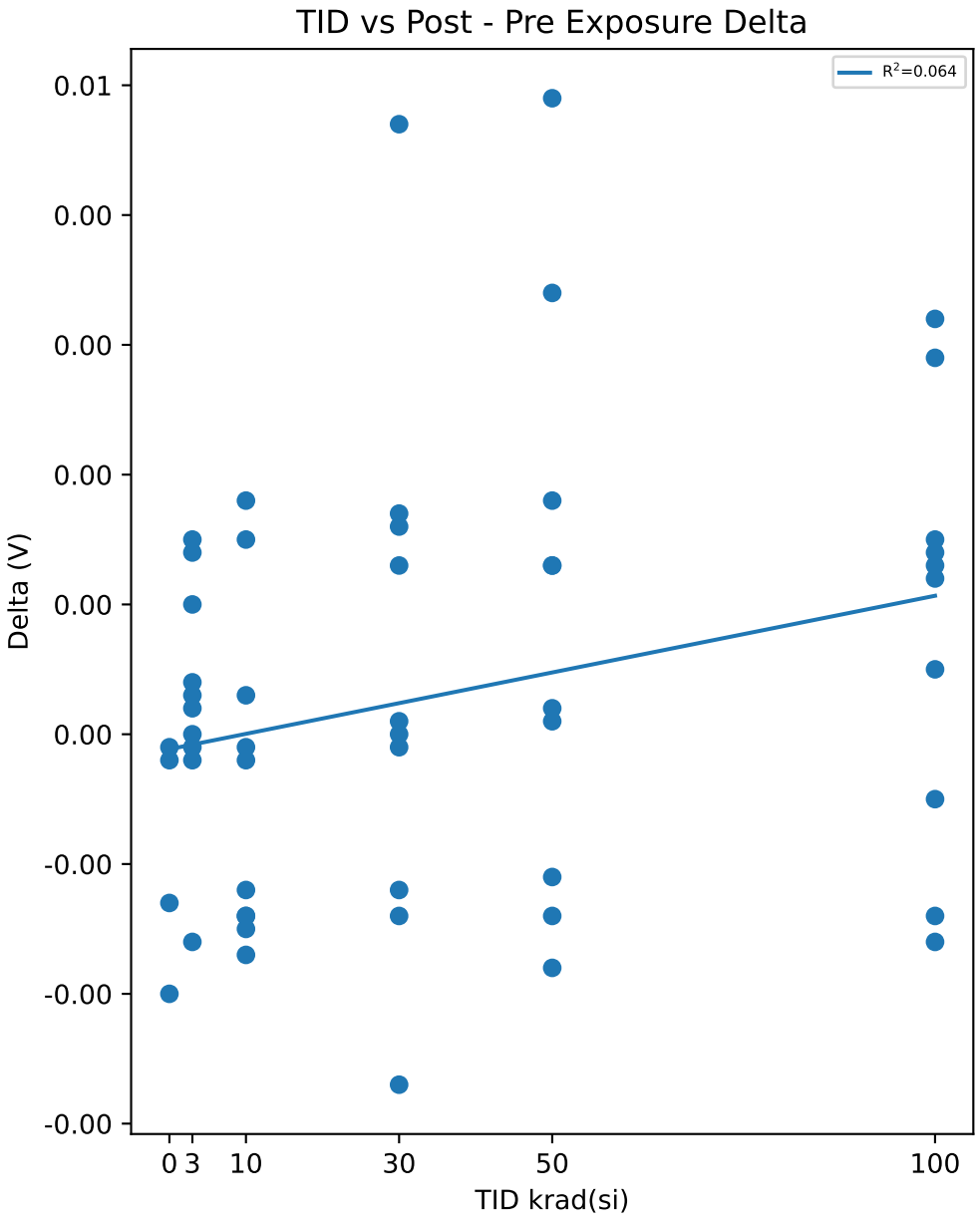
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.0005	1.0004	-0.0001
2	3	HDR BIAS	1.0002	1.0006	0.0004
3	3	HDR BIAS	0.9945	0.9929	-0.0016
4	3	HDR BIAS	1.0034	1.0034	0
5	3	HDR BIAS	0.9881	0.9898	0.0017
6	3	HDR UNBIAS	0.9913	0.9913	0
7	3	HDR UNBIAS	1.0019	1.0006	-0.0013
8	3	HDR UNBIAS	0.9928	0.9943	0.0015
9	3	HDR UNBIAS	0.9946	0.9944	-0.0002
10	3	HDR UNBIAS	0.9839	0.9853	0.0014
11	10	HDR BIAS	0.9947	0.9946	-0.0001
12	10	HDR BIAS	0.9916	0.9914	-0.0002
13	10	HDR BIAS	0.9928	0.9931	0.0003
14	10	HDR BIAS	0.9912	0.993	0.0018
15	10	HDR BIAS	0.9959	0.9961	0.0002
16	10	HDR UNBIAS	0.9884	0.9884	0
17	10	HDR UNBIAS	0.9957	0.9946	-0.0011
18	10	HDR UNBIAS	0.9868	0.9857	-0.0011
19	10	HDR UNBIAS	0.9944	0.9961	0.0017
20	10	HDR UNBIAS	0.9931	0.993	-0.0001
31	30	HDR BIAS	1.002	1.0052	0.0032
32	30	HDR BIAS	1.0004	1.002	0.0016
33	30	HDR BIAS	1.0003	1.0033	0.003
34	30	HDR BIAS	0.9958	0.9945	-0.0013
35	30	HDR BIAS	0.9917	0.9929	0.0012
36	30	HDR UNBIAS	0.9913	0.993	0.0017
37	30	HDR UNBIAS	1.0019	0.9991	-0.0028
38	30	HDR UNBIAS	0.9868	0.9868	0
39	30	HDR UNBIAS	1.0035	1.0004	-0.0031
40	30	HDR UNBIAS	0.9989	0.9988	-0.0001
41	50	HDR BIAS	0.9913	0.9928	0.0015
42	50	HDR BIAS	0.999	0.9991	0.0001
43	50	HDR BIAS	0.9869	0.9884	0.0015
44	50	HDR BIAS	0.9919	0.9929	0.001
45	50	HDR BIAS	0.9929	0.9917	-0.0012
46	50	HDR UNBIAS	0.9973	0.9993	0.002
47	50	HDR UNBIAS	0.9881	0.9868	-0.0013
48	50	HDR UNBIAS	0.9853	0.9853	0
49	50	HDR UNBIAS	0.9913	0.9947	0.0034
50	50	HDR UNBIAS	1.0067	1.0064	-0.0003
51	100	HDR BIAS	1.0066	1.0051	-0.0015
52	100	HDR BIAS	0.9945	0.996	0.0015
53	100	HDR BIAS	0.9917	0.9918	0.0001
54	100	HDR BIAS	0.9975	0.9973	-0.0002
55	100	HDR BIAS	0.9928	0.9977	0.0049
56	100	HDR UNBIAS	0.9903	0.9898	-0.0005
57	100	HDR UNBIAS	0.9933	0.9961	0.0028
58	100	HDR UNBIAS	0.9958	0.996	0.0002
59	100	HDR UNBIAS	0.9987	0.9991	0.0004
60	100	HDR UNBIAS	0.9946	0.9974	0.0028
91	0	CORRELATION	0.9971	0.9989	0.0018
92	0	CORRELATION	0.9931	0.9929	-0.0002
93	0	CORRELATION	0.9912	0.9914	0.0002
94	0	CORRELATION	0.9918	0.9916	-0.0002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9912	0.9933	0.9971	0.0026546	0.9914	0.9937	0.9989	0.0035299	-0.0002	0.0004	0.0018	0.00095219
3	0.9839	0.99512	1.0034	0.006369	0.9853	0.9953	1.0034	0.0057891	-0.0016	0.00018	0.0017	0.0011173
10	0.9868	0.99246	0.9959	0.0030274	0.9857	0.9926	0.9961	0.0033293	-0.0011	0.00014	0.0018	0.00097434
30	0.9868	0.99726	1.0035	0.0056046	0.9868	0.9976	1.0052	0.0056827	-0.0031	0.00034	0.0032	0.0022142
50	0.9853	0.99307	1.0067	0.0064087	0.9853	0.99374	1.0064	0.0064507	-0.0013	0.00067	0.0034	0.0014833
100	0.9903	0.99558	1.0066	0.0046296	0.9898	0.99663	1.0051	0.0040972	-0.0015	0.00105	0.0049	0.0019341

Device Test: 28.8 VOLTAGE|OC/CS/14/14/0/0/5/100kHz//@V_CS_ILIM_OC





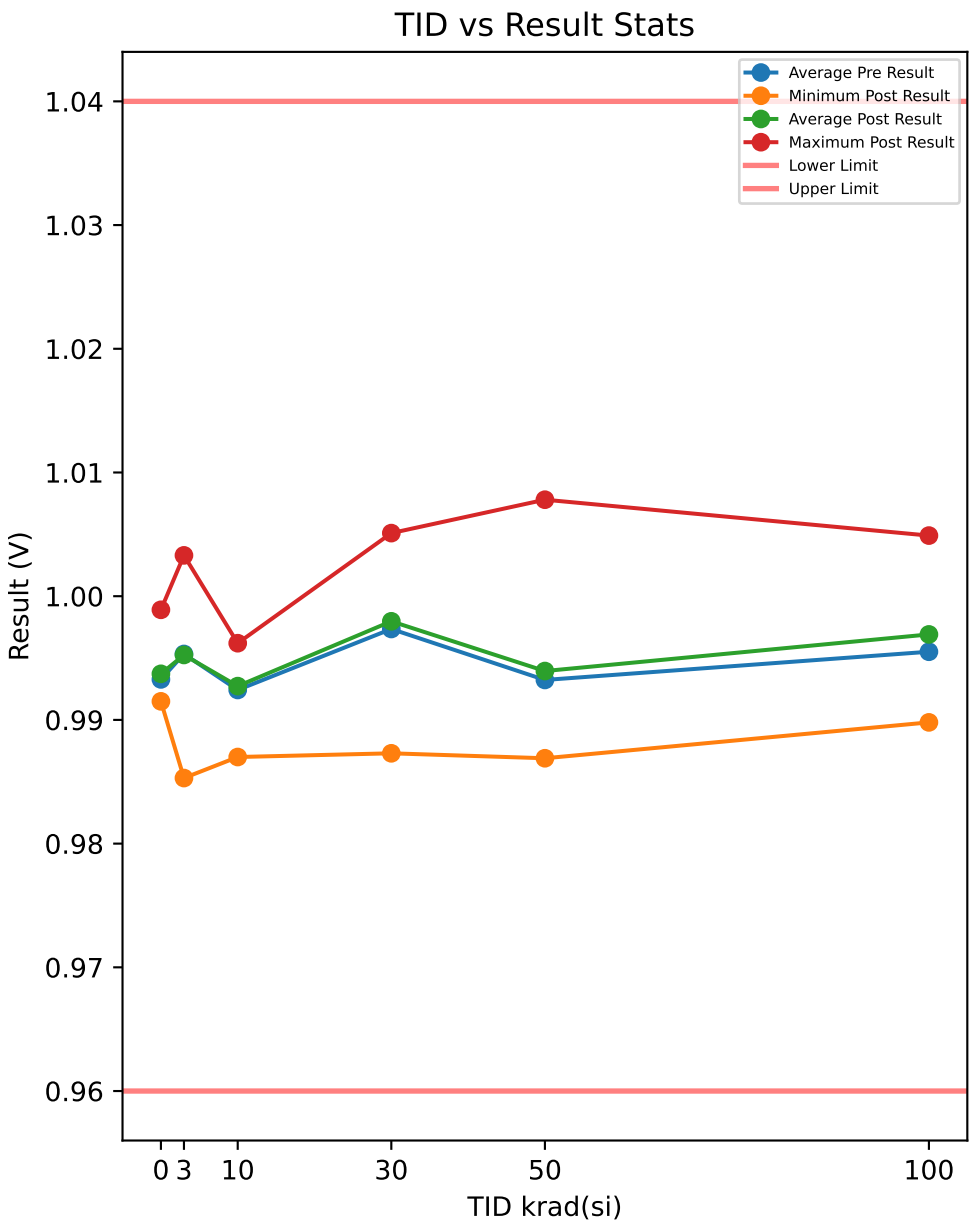
Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

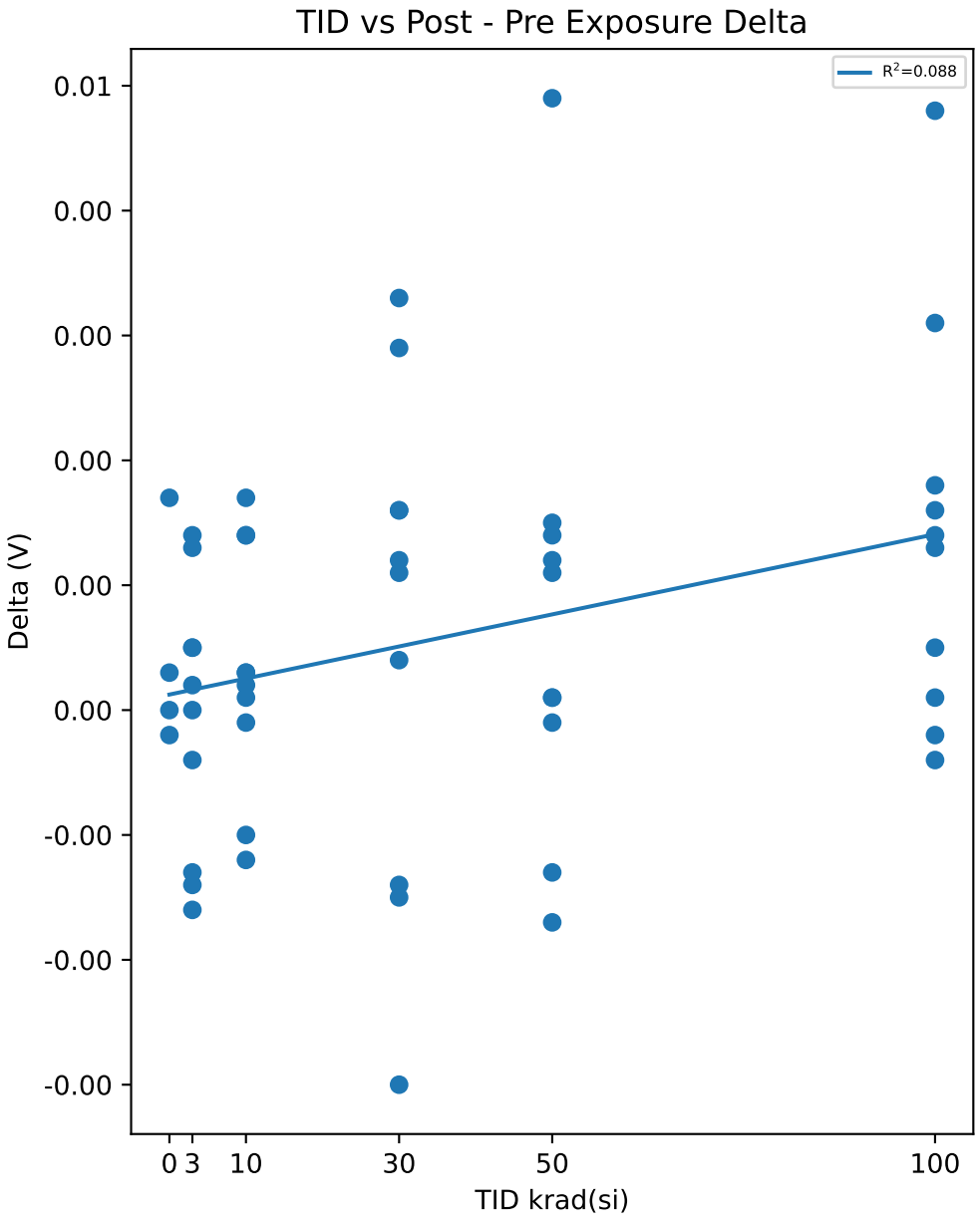
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.0004	1.0019	0.0015
2	3	HDR BIAS	1.0009	1.0019	0.001
3	3	HDR BIAS	0.9943	0.9947	0.0004
4	3	HDR BIAS	1.0034	1.0034	0
5	3	HDR BIAS	0.9888	0.9886	-0.0002
6	3	HDR UNBIAS	0.9915	0.9914	-0.0001
7	3	HDR UNBIAS	1.002	1.0004	-0.0016
8	3	HDR UNBIAS	0.9929	0.9943	0.0014
9	3	HDR UNBIAS	0.9941	0.9944	0.0003
10	3	HDR UNBIAS	0.9838	0.984	0.0002
11	10	HDR BIAS	0.9948	0.9947	-0.0001
12	10	HDR BIAS	0.9913	0.9916	0.0003
13	10	HDR BIAS	0.9943	0.9929	-0.0014
14	10	HDR BIAS	0.9913	0.9928	0.0015
15	10	HDR BIAS	0.9943	0.9961	0.0018
16	10	HDR UNBIAS	0.9883	0.9869	-0.0014
17	10	HDR UNBIAS	0.9971	0.9959	-0.0012
18	10	HDR UNBIAS	0.9871	0.9854	-0.0017
19	10	HDR UNBIAS	0.9959	0.9944	-0.0015
20	10	HDR UNBIAS	0.9931	0.9929	-0.0002
31	30	HDR BIAS	1.0019	1.0066	0.0047
32	30	HDR BIAS	1.0006	1.0019	0.0013
33	30	HDR BIAS	1.0001	1.0018	0.0017
34	30	HDR BIAS	0.9958	0.9944	-0.0014
35	30	HDR BIAS	0.9913	0.9929	0.0016
36	30	HDR UNBIAS	0.9916	0.9916	0
37	30	HDR UNBIAS	1.0019	0.9992	-0.0027
38	30	HDR UNBIAS	0.9871	0.987	-0.0001
39	30	HDR UNBIAS	1.0034	1.0022	-0.0012
40	30	HDR UNBIAS	0.9988	0.9989	0.0001
41	50	HDR BIAS	0.9897	0.9931	0.0034
42	50	HDR BIAS	0.9974	0.9987	0.0013
43	50	HDR BIAS	0.9869	0.9855	-0.0014
44	50	HDR BIAS	0.9916	0.9929	0.0013
45	50	HDR BIAS	0.9928	0.9917	-0.0011
46	50	HDR UNBIAS	0.9974	0.9975	0.0001
47	50	HDR UNBIAS	0.9903	0.9885	-0.0018
48	50	HDR UNBIAS	0.9836	0.9854	0.0018
49	50	HDR UNBIAS	0.9898	0.9947	0.0049
50	50	HDR UNBIAS	1.0062	1.0064	0.0002
51	100	HDR BIAS	1.005	1.0036	-0.0014
52	100	HDR BIAS	0.9944	0.9959	0.0015
53	100	HDR BIAS	0.9902	0.9914	0.0012
54	100	HDR BIAS	0.9975	0.9988	0.0013
55	100	HDR BIAS	0.9929	0.9961	0.0032
56	100	HDR UNBIAS	0.9903	0.9898	-0.0005
57	100	HDR UNBIAS	0.9945	0.9959	0.0014
58	100	HDR UNBIAS	0.9958	0.9942	-0.0016
59	100	HDR UNBIAS	0.9986	0.9991	0.0005
60	100	HDR UNBIAS	0.9945	0.9974	0.0029
91	0	CORRELATION	0.9989	0.9988	-0.0001
92	0	CORRELATION	0.993	0.9928	-0.0002
93	0	CORRELATION	0.9913	0.99	-0.0013
94	0	CORRELATION	0.9919	0.9899	-0.002

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9913	0.99377	0.9989	0.0034884	0.9899	0.99287	0.9988	0.0041724	-0.002	-0.0009	-0.0001	0.00091287
3	0.9838	0.99521	1.0034	0.0063677	0.984	0.9955	1.0034	0.006397	-0.0016	0.00029	0.0015	0.0008987
10	0.9871	0.99275	0.9971	0.0032302	0.9854	0.99236	0.9961	0.0035865	-0.0017	-0.00039	0.0018	0.0012741
30	0.9871	0.99725	1.0034	0.0055304	0.987	0.99765	1.0066	0.0059926	-0.0027	0.0004	0.0047	0.002064
50	0.9836	0.99257	1.0062	0.0063866	0.9854	0.99344	1.0064	0.0064051	-0.0018	0.00087	0.0049	0.0021365
100	0.9902	0.99537	1.005	0.0043318	0.9898	0.99622	1.0036	0.0039378	-0.0016	0.00085	0.0032	0.0016257

Device Test: 28.9 VOLTAGE|OC/CS/12/12/0/0/5/500kHz//@V_CS_ILIM_OC





Test Results (Lower Limit = 0.96, Upper Limit = 1.04 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
1	3	HDR BIAS	1.0002	1.0007	0.0005
2	3	HDR BIAS	1.0006	1.0008	0.0002
3	3	HDR BIAS	0.9941	0.9946	0.0005
4	3	HDR BIAS	1.0049	1.0033	-0.0016
5	3	HDR BIAS	0.9888	0.9884	-0.0004
6	3	HDR UNBIAS	0.9913	0.99	-0.0013
7	3	HDR UNBIAS	1.002	1.0006	-0.0014
8	3	HDR UNBIAS	0.9931	0.9944	0.0013
9	3	HDR UNBIAS	0.9944	0.9944	0
10	3	HDR UNBIAS	0.9839	0.9853	0.0014
11	10	HDR BIAS	0.9944	0.9947	0.0003
12	10	HDR BIAS	0.9914	0.9916	0.0002
13	10	HDR BIAS	0.9928	0.9931	0.0003
14	10	HDR BIAS	0.9913	0.993	0.0017
15	10	HDR BIAS	0.9945	0.9959	0.0014
16	10	HDR UNBIAS	0.9883	0.9871	-0.0012
17	10	HDR UNBIAS	0.9972	0.9962	-0.001
18	10	HDR UNBIAS	0.9869	0.987	0.0001
19	10	HDR UNBIAS	0.9945	0.9959	0.0014
20	10	HDR UNBIAS	0.9929	0.9928	-0.0001
31	30	HDR BIAS	1.0018	1.0051	0.0033
32	30	HDR BIAS	1.0008	1.0019	0.0011
33	30	HDR BIAS	1.0005	1.0034	0.0029
34	30	HDR BIAS	0.9959	0.9945	-0.0014
35	30	HDR BIAS	0.9919	0.9931	0.0012
36	30	HDR UNBIAS	0.9914	0.993	0.0016
37	30	HDR UNBIAS	1.0018	0.9988	-0.003
38	30	HDR UNBIAS	0.9869	0.9873	0.0004
39	30	HDR UNBIAS	1.0036	1.0021	-0.0015
40	30	HDR UNBIAS	0.9989	1.0005	0.0016
41	50	HDR BIAS	0.9916	0.9928	0.0012
42	50	HDR BIAS	0.9988	0.9989	0.0001
43	50	HDR BIAS	0.9869	0.987	0.0001
44	50	HDR BIAS	0.9917	0.9928	0.0011
45	50	HDR BIAS	0.9931	0.9914	-0.0017
46	50	HDR UNBIAS	0.9989	0.9988	-0.0001
47	50	HDR UNBIAS	0.9897	0.9884	-0.0013
48	50	HDR UNBIAS	0.9854	0.9869	0.0015
49	50	HDR UNBIAS	0.9898	0.9947	0.0049
50	50	HDR UNBIAS	1.0064	1.0078	0.0014
51	100	HDR BIAS	1.0051	1.0049	-0.0002
52	100	HDR BIAS	0.9944	0.9958	0.0014
53	100	HDR BIAS	0.9913	0.9918	0.0005
54	100	HDR BIAS	0.9974	0.9992	0.0018
55	100	HDR BIAS	0.9929	0.9977	0.0048
56	100	HDR UNBIAS	0.9902	0.9898	-0.0004
57	100	HDR UNBIAS	0.9945	0.9958	0.0013
58	100	HDR UNBIAS	0.9959	0.996	0.0001
59	100	HDR UNBIAS	0.9991	1.0007	0.0016
60	100	HDR UNBIAS	0.9943	0.9974	0.0031
91	0	CORRELATION	0.9991	0.9989	-0.0002
92	0	CORRELATION	0.9929	0.9929	0
93	0	CORRELATION	0.9898	0.9915	0.0017
94	0	CORRELATION	0.9913	0.9916	0.0003

Test Statistics (V)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9898	0.99328	0.9991	0.0040844	0.9915	0.99372	0.9989	0.0035084	-0.0002	0.00045	0.0017	0.00085829
3	0.9839	0.99533	1.0049	0.0065357	0.9853	0.99525	1.0033	0.0060487	-0.0016	-8e-05	0.0014	0.0010799
10	0.9869	0.99242	0.9972	0.0030829	0.987	0.99273	0.9962	0.0033672	-0.0012	0.00031	0.0017	0.00097348
30	0.9869	0.99735	1.0036	0.0055708	0.9873	0.99797	1.0051	0.0057176	-0.003	0.00062	0.0033	0.0020165
50	0.9854	0.99323	1.0064	0.0063878	0.9869	0.99395	1.0078	0.0064839	-0.0017	0.00072	0.0049	0.0018347
100	0.9902	0.99551	1.0051	0.0042821	0.9898	0.99691	1.0049	0.0042722	-0.0004	0.0014	0.0048	0.0015972

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