Radiation Report
TPS7H5030-SEP Total Ionizing Dose (TID) Report

TEXAS INSTRUMENTS

ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for the Texas Instruments TPS7H5030-SEP radiation hardness-assured PWM controller with integrated gate driver. The study was done to determine TID effects at 50krad (Si) High Dose Rate (HDR). The results show that all samples pass within device specified test limits.

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Trademarks

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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-SEP 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 50krad(Si)	
TI Device	TPS7H5030-SEP
TI Part Number	TPS7H5030MPWPTSEP
Device Function	PWM Controller with Integrated Gate Driver
Package	24-pin HTSSOP-PWP
Technology	LBC7 (250nm Linear BiCMOS)
Quantity tested	HDR : • 15 biased units from 20krad(Si) to 50krad(Si) • 15 unbiased units from 20krad(Si) to 50krad(Si) • 4 Correlation units
Lot Accept/Reject	Passes up to 50krad(Si); no observed fails
HDR Radiation Facility	Texas Instruments CLAB Dallas, Texas
Die Lot Number and Assembly Lot Number	DIE: 4356038 Assembly: 5537491
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

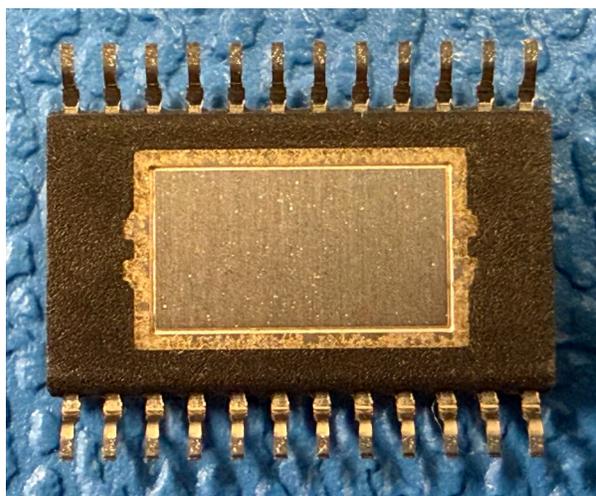**Figure 1-1. Device Used in Exposure (Front)**

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

2 Total Dose Test Setup

2.1 Test Overview

The TPS7H5030-SEP 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-SEP 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.
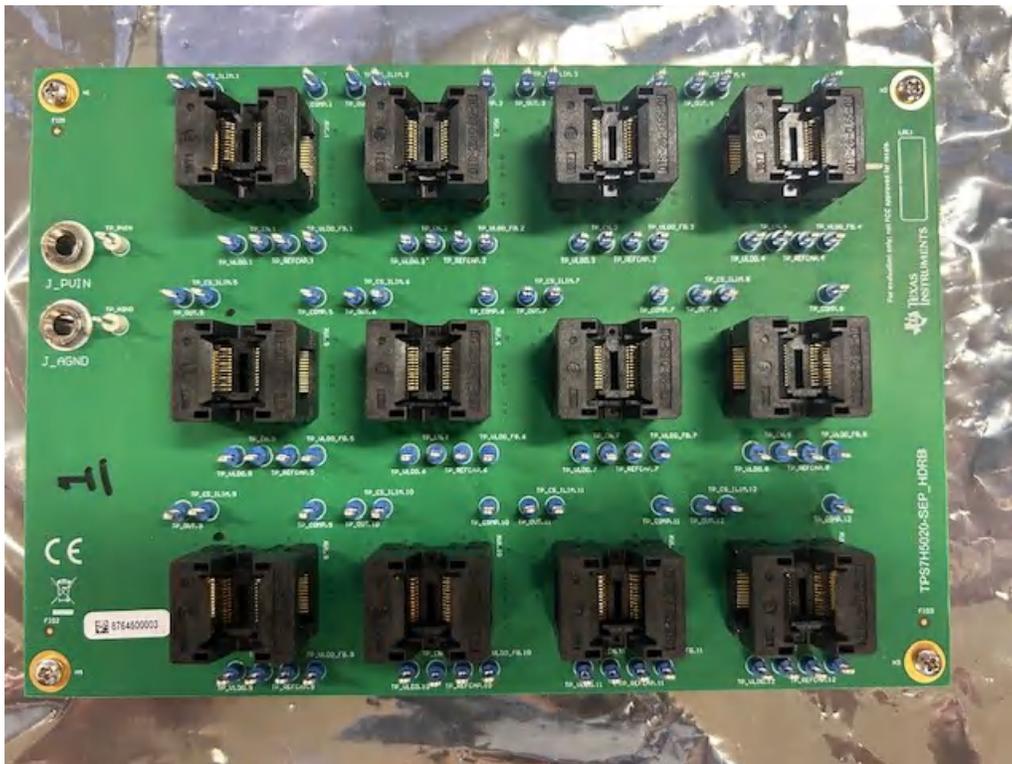
Figure 2-1. HDR TID Hardware
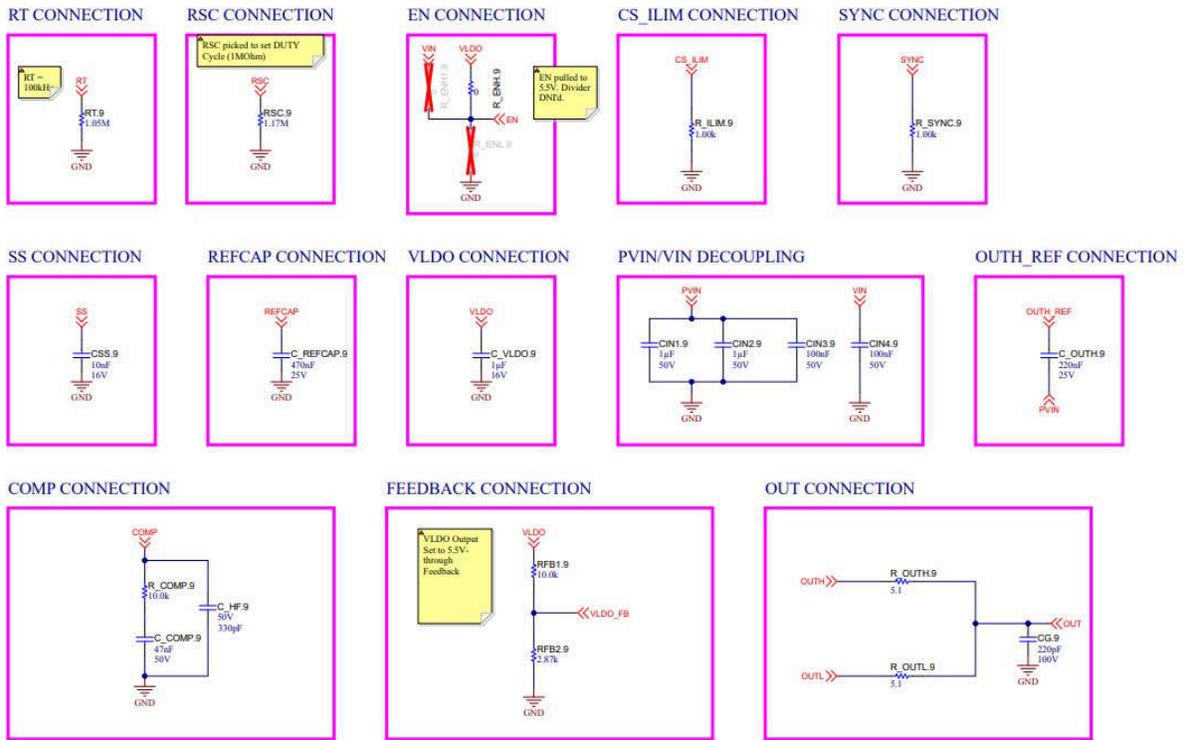
Figure 2-2. Supplies and GND HDR TID Bias Diagram
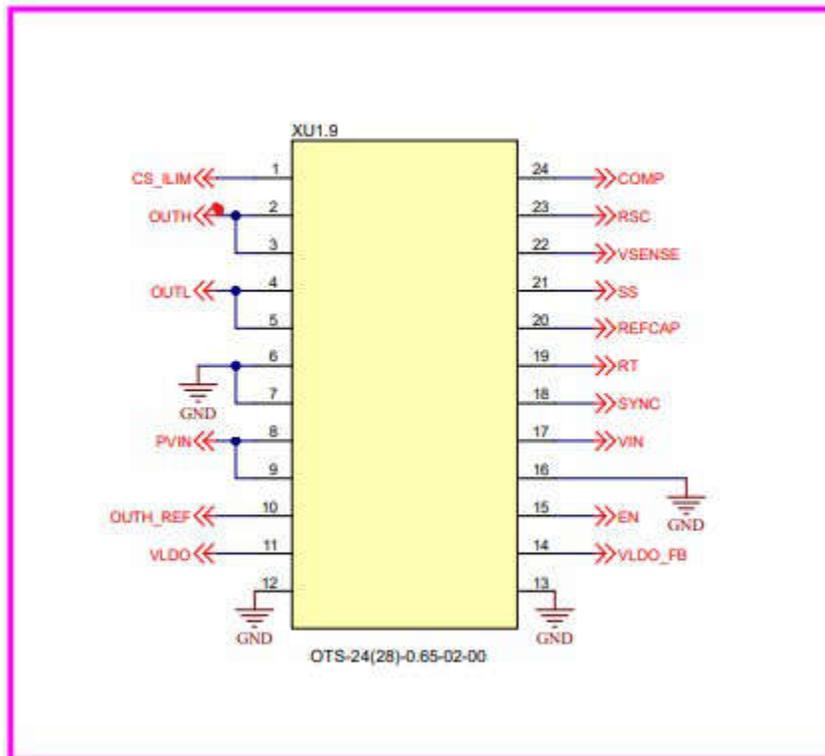
Figure 2-3. HDR TID Bias Diagram (VLDO_FB Not used on TPS7H5030-SEP)

2.4 Test Configuration and Conditions

HDR devices were stressed up to 50krad (Si) for biased and unbiased conditions.

Table 2-1. HDR Biased Device Information

Total Samples: 15 units + 4 control			
Exposure Levels:			
Control	20krad (Si)	30krad(Si)	50krad (Si)
91, 92, 93, 94	21, 22, 23, 24, 25	31, 32, 33, 34, 35	41, 42, 43, 44, 45

Table 2-2. HDR Unbiased Device Information

Total Samples: 15 units + 4 control			
Exposure Levels:			
Control	20krad (Si)	30krad(Si)	50krad (Si)
91, 92, 93, 94	26, 27, 28, 29, 30	36, 37, 38, 39, 40	46, 47, 48, 49, 50

3 TID Characterization Test Results

3.1 TID Characterization Results Summary

The results show that all TPS7H5030-SEP devices were fully functional and within specification limits up to 50krad (Si) HDR. Overall the TPS7H5030-SEP show a strong degree of hardness to TID HDR exposure levels at 50krad (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.

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-SEP 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

Table 3-1. TPS7H5030-SEP 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								

Table 3-1. TPS7H5030-SEP 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

4 Applicable and Reference Documents

4.1 Applicable Documents

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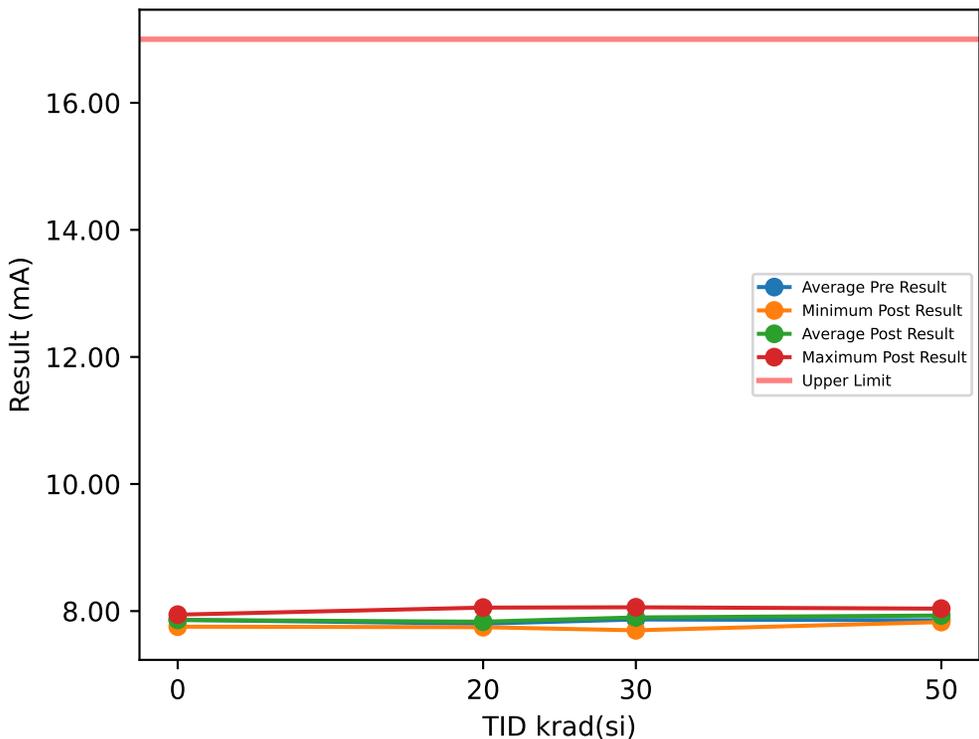- Texas Instruments, *TPS7H5030-SP Evaluation Module*, EVM user's guide.

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.

A Appendix: HDR TID Report

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 11.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.4297	6.4161	-0.0136
22	20	HDR BIAS	6.4014	6.435	0.0336
23	20	HDR BIAS	6.4471	6.4437	-0.0034
24	20	HDR BIAS	6.4615	6.4725	0.011
25	20	HDR BIAS	6.6369	6.7032	0.0663
26	20	HDR UNBIAS	6.5456	6.5466	0.001
27	20	HDR UNBIAS	6.4119	6.404	-0.0079
28	20	HDR UNBIAS	6.3723	6.3989	0.0266
29	20	HDR UNBIAS	6.5426	6.558	0.0154
30	20	HDR UNBIAS	6.3856	6.3877	0.0021
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
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
20	6.3723	6.4635	6.6369	0.085235	6.3877	6.4766	6.7032	0.099205	-0.0136	0.01311	0.0663	0.023889
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 17.0 (mA))

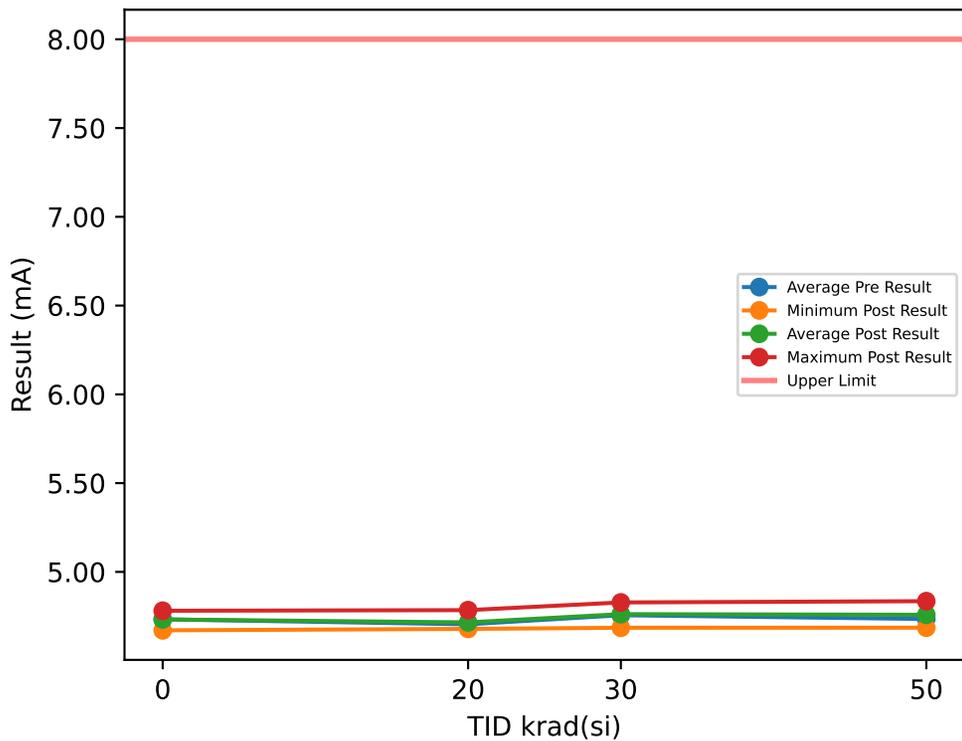| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.7524	7.7551	0.0027
22	20	HDR BIAS	7.7631	7.8068	0.0437
23	20	HDR BIAS	7.7809	7.7957	0.0148
24	20	HDR BIAS	7.8007	7.8354	0.0347
25	20	HDR BIAS	7.9774	8.0549	0.0775
26	20	HDR UNBIAS	7.8629	7.884	0.0211
27	20	HDR UNBIAS	7.7594	7.7729	0.0135
28	20	HDR UNBIAS	7.7146	7.7665	0.0519
29	20	HDR UNBIAS	7.8762	7.9141	0.0379
30	20	HDR UNBIAS	7.7274	7.7463	0.0189
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
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)
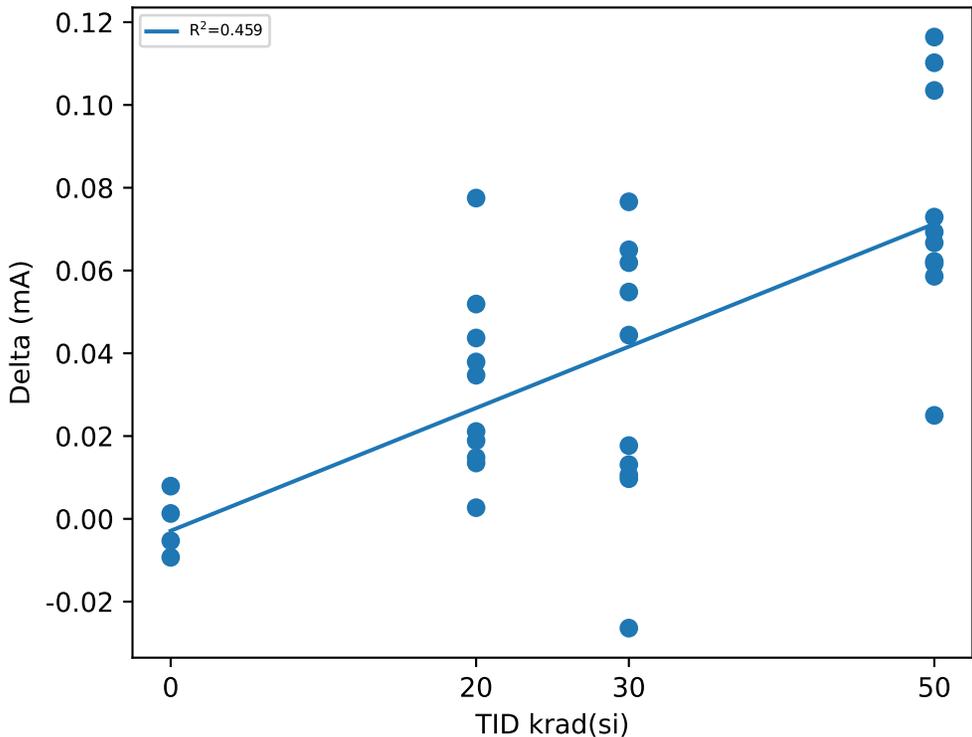
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.7465	7.8624	7.9489	0.097238	7.7544	7.861	7.9436	0.094534	-0.0093	-0.00135	0.0079	0.0075584
20	7.7146	7.8015	7.9774	0.081251	7.7463	7.8332	8.0549	0.095522	0.0027	0.03167	0.0775	0.022189
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 8.0 (mA))

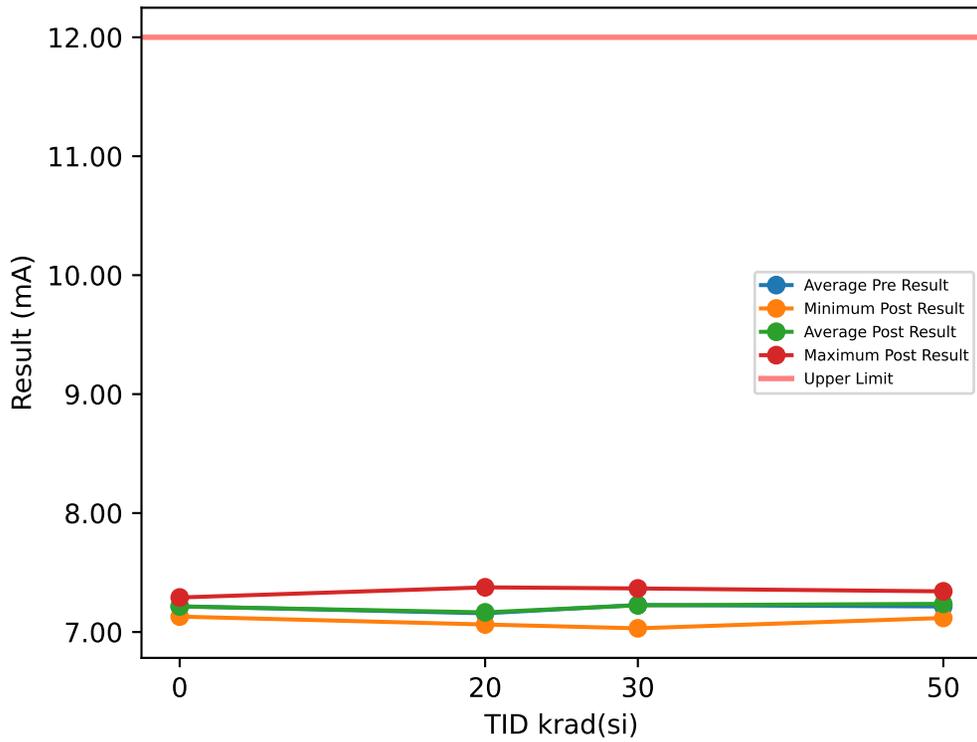| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.6881	4.6911	0.003
22	20	HDR BIAS	4.6908	4.7183	0.0275
23	20	HDR BIAS	4.6984	4.7011	0.0027
24	20	HDR BIAS	4.7243	4.7252	0.0009
25	20	HDR BIAS	4.7444	4.7846	0.0402
26	20	HDR UNBIAS	4.7485	4.7481	-0.0004
27	20	HDR UNBIAS	4.689	4.6817	-0.0073
28	20	HDR UNBIAS	4.6655	4.679	0.0135
29	20	HDR UNBIAS	4.7194	4.7379	0.0185
30	20	HDR UNBIAS	4.6789	4.6895	0.0106
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
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)
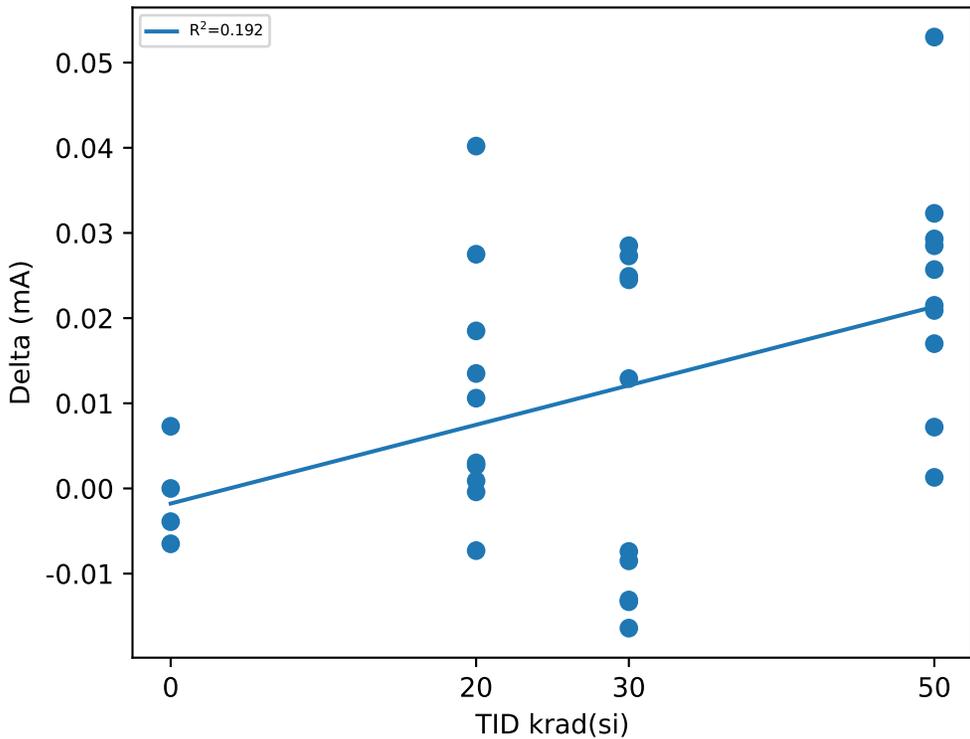
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.6636	4.7329	4.7812	0.049547	4.6709	4.7321	4.7812	0.04558	-0.0065	-0.000775	0.0073	0.0060096
20	4.6655	4.7047	4.7485	0.027992	4.679	4.7157	4.7846	0.033984	-0.0073	0.01092	0.0402	0.014481
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 12.0 (mA))

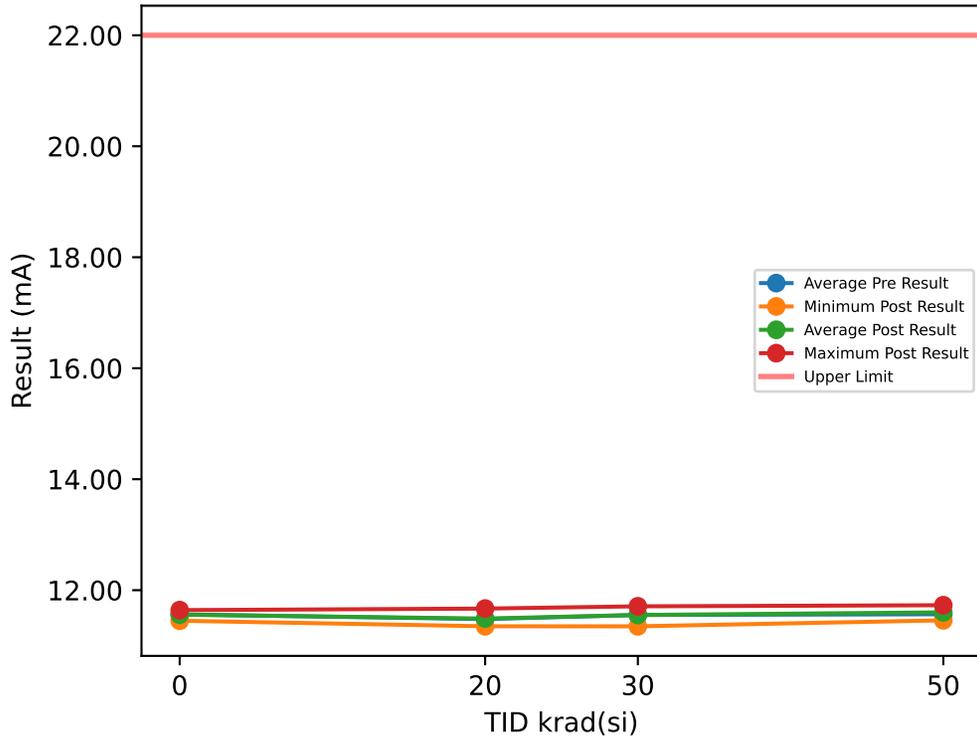| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.1215	7.1034	-0.0181
22	20	HDR BIAS	7.1123	7.1364	0.0241
23	20	HDR BIAS	7.1365	7.1294	-0.0071
24	20	HDR BIAS	7.1559	7.1648	0.0089
25	20	HDR BIAS	7.3144	7.3757	0.0613
26	20	HDR UNBIAS	7.236	7.2339	-0.0021
27	20	HDR UNBIAS	7.1118	7.0969	-0.0149
28	20	HDR UNBIAS	7.0671	7.0886	0.0215
29	20	HDR UNBIAS	7.2507	7.2609	0.0102
30	20	HDR UNBIAS	7.0674	7.0633	-0.0041
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
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)
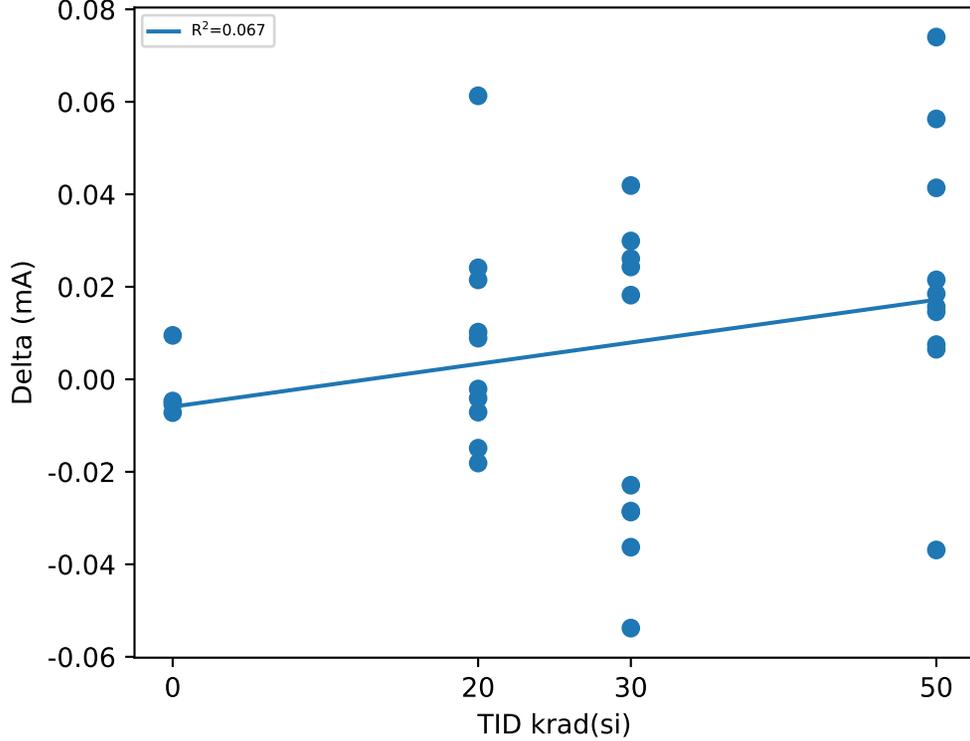
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1203	7.2165	7.2951	0.088791	7.1298	7.2146	7.2904	0.084202	-0.0072	-0.00195	0.0095	0.0077056
20	7.0671	7.1574	7.3144	0.082749	7.0633	7.1653	7.3757	0.097202	-0.0181	0.00797	0.0613	0.0235
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 22.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	11.418	11.414	-0.004
22	20	HDR BIAS	11.483	11.495	0.0121
23	20	HDR BIAS	11.461	11.446	-0.0152
24	20	HDR BIAS	11.475	11.502	0.0267
25	20	HDR BIAS	11.607	11.668	0.0613
26	20	HDR UNBIAS	11.549	11.547	-0.0015
27	20	HDR UNBIAS	11.439	11.42	-0.019
28	20	HDR UNBIAS	11.398	11.419	0.0208
29	20	HDR UNBIAS	11.605	11.623	0.0178
30	20	HDR UNBIAS	11.354	11.35	-0.0039
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
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)
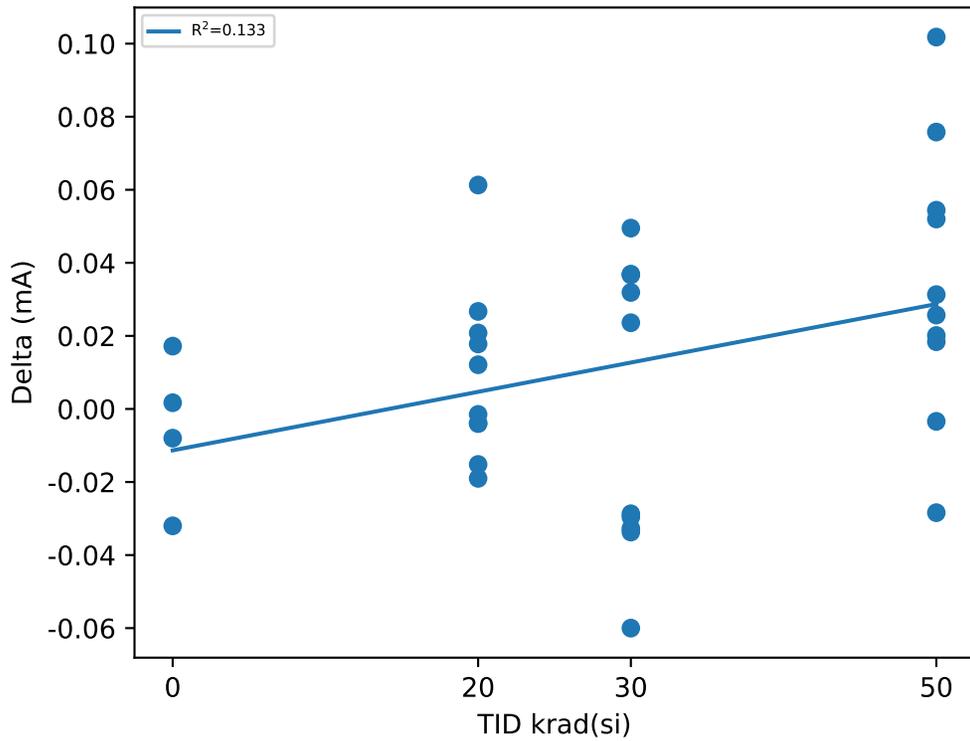
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.432	11.564	11.649	0.10529	11.449	11.559	11.641	0.087699	-0.032	-0.005275	0.0172	0.020619
20	11.354	11.479	11.607	0.085135	11.35	11.488	11.668	0.10024	-0.019	0.00951	0.0613	0.023776
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 11.0 (mA))

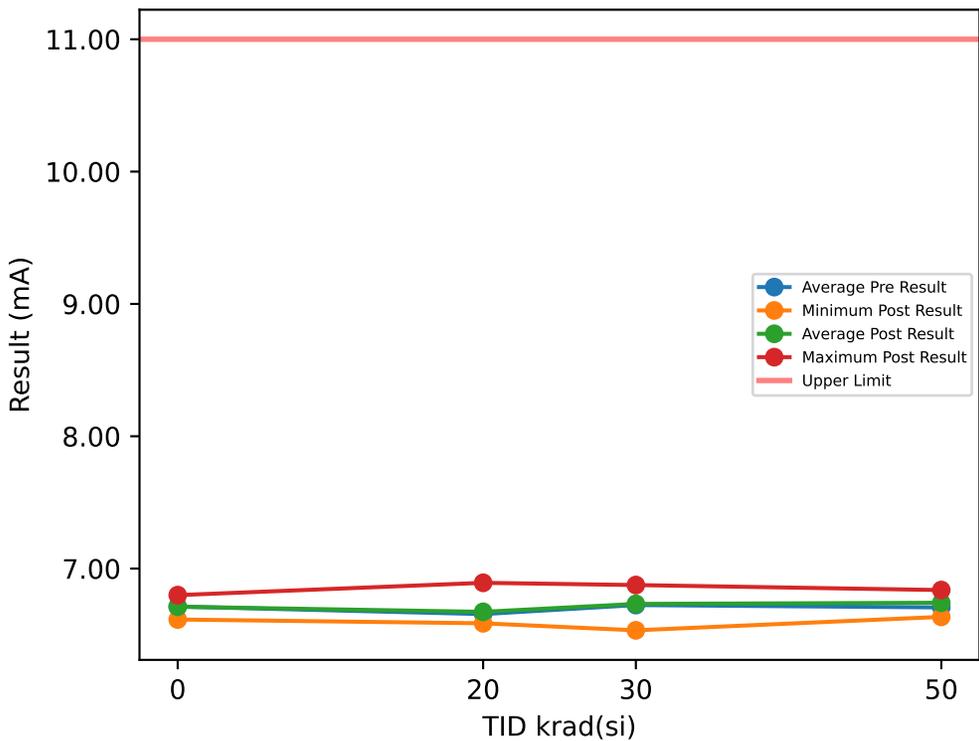| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.6106	6.5992	-0.0114
22	20	HDR BIAS	6.6047	6.6391	0.0344
23	20	HDR BIAS	6.6412	6.6403	-0.0009
24	20	HDR BIAS	6.648	6.6718	0.0238
25	20	HDR BIAS	6.8317	6.8925	0.0608
26	20	HDR UNBIAS	6.7317	6.7368	0.0051
27	20	HDR UNBIAS	6.6055	6.6087	0.0032
28	20	HDR UNBIAS	6.5754	6.606	0.0306
29	20	HDR UNBIAS	6.7374	6.751	0.0136
30	20	HDR UNBIAS	6.575	6.5867	0.0117
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
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)
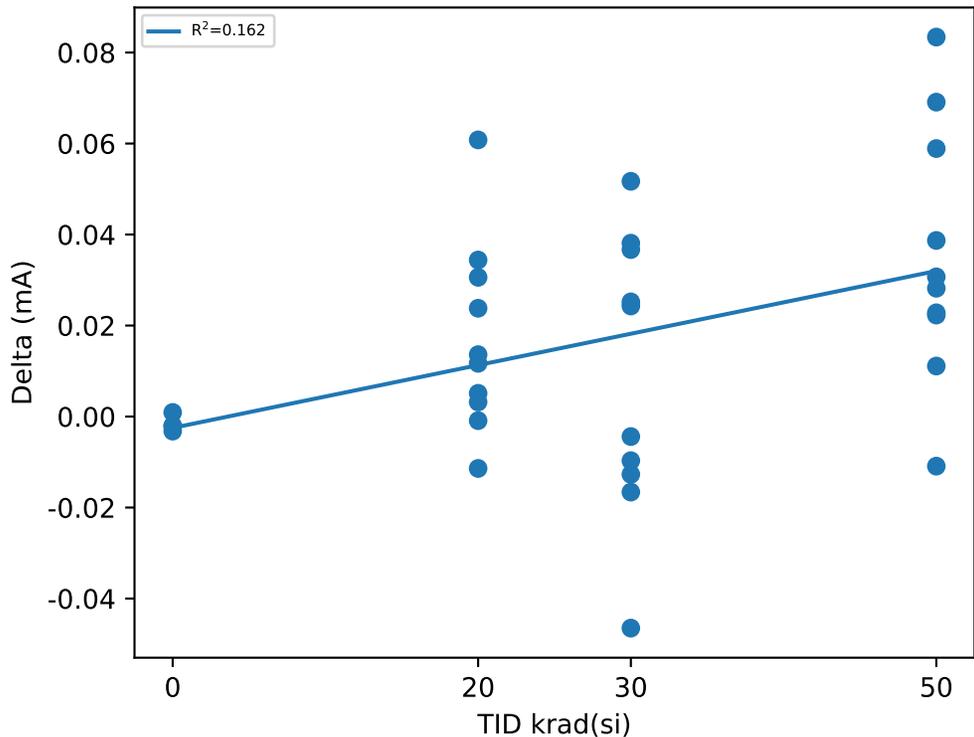
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.6144	6.7134	6.8027	0.096985	6.6153	6.7118	6.7995	0.09561	-0.0032	-0.0016	0.0009	0.0017531
20	6.575	6.6561	6.8317	0.084202	6.5867	6.6732	6.8925	0.095494	-0.0114	0.01709	0.0608	0.020952
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 11.0 (mA))

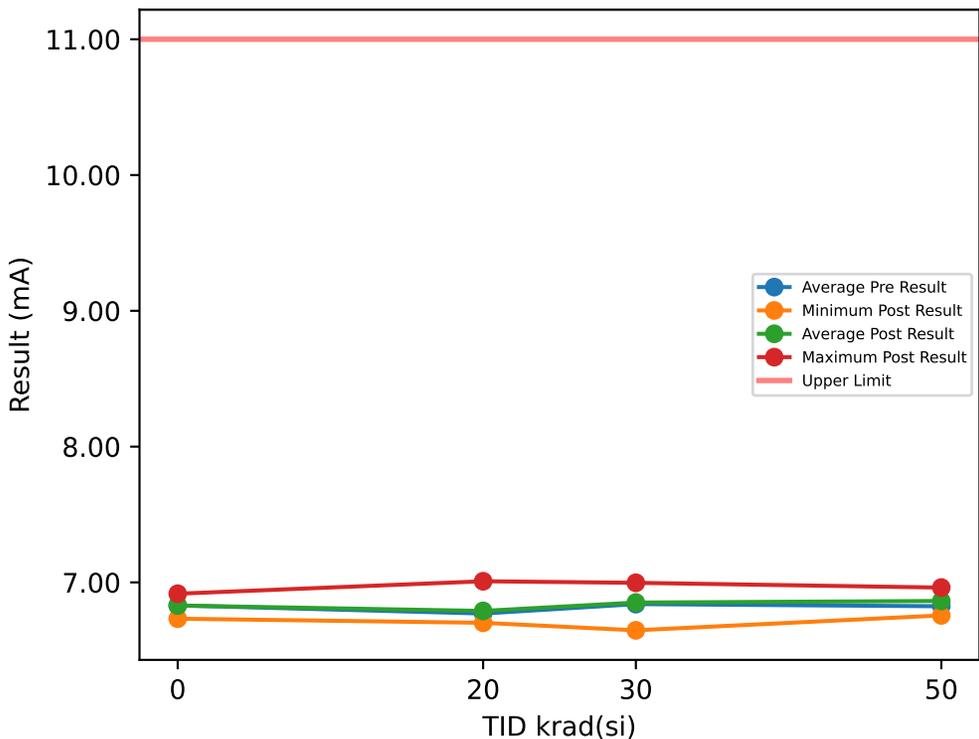| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.7198	6.7119	-0.0079
22	20	HDR BIAS	6.7245	6.759	0.0345
23	20	HDR BIAS	6.7544	6.7545	0.0001
24	20	HDR BIAS	6.7611	6.787	0.0259
25	20	HDR BIAS	6.9463	7.0082	0.0619
26	20	HDR UNBIAS	6.8408	6.8488	0.008
27	20	HDR UNBIAS	6.7215	6.7274	0.0059
28	20	HDR UNBIAS	6.6945	6.7283	0.0338
29	20	HDR UNBIAS	6.8527	6.8692	0.0165
30	20	HDR UNBIAS	6.6885	6.7023	0.0138
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
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)
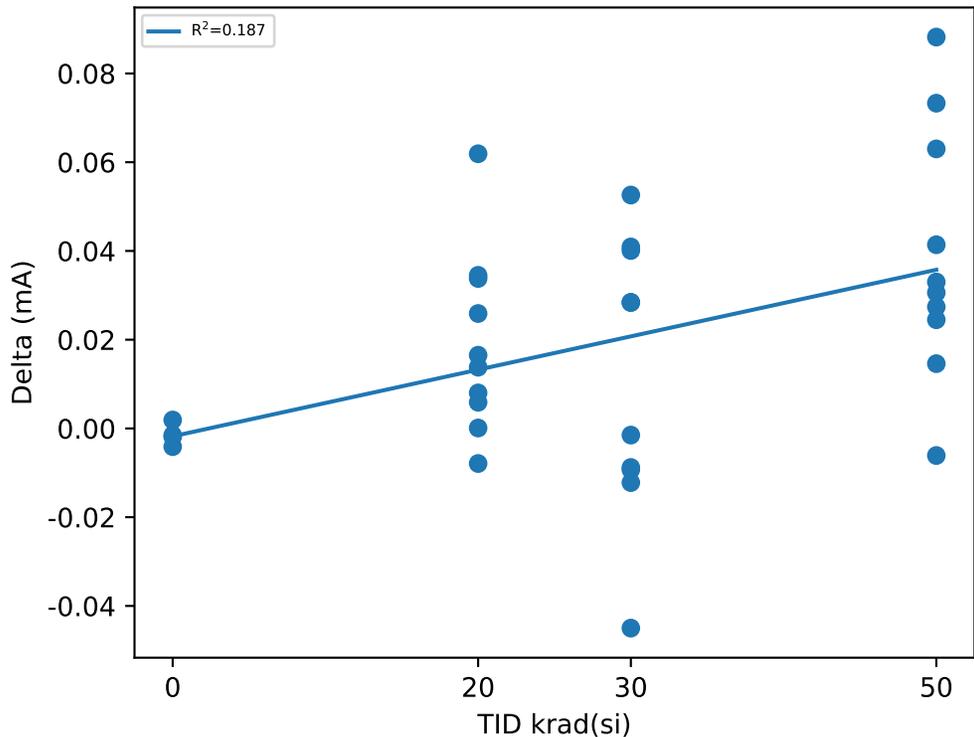
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.7307	6.8306	6.9205	0.098857	6.7326	6.8292	6.9164	0.097032	-0.0041	-0.0014	0.0019	0.0024792
20	6.6885	6.7704	6.9463	0.08336	6.7023	6.7897	7.0082	0.094919	-0.0079	0.01925	0.0619	0.020422
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
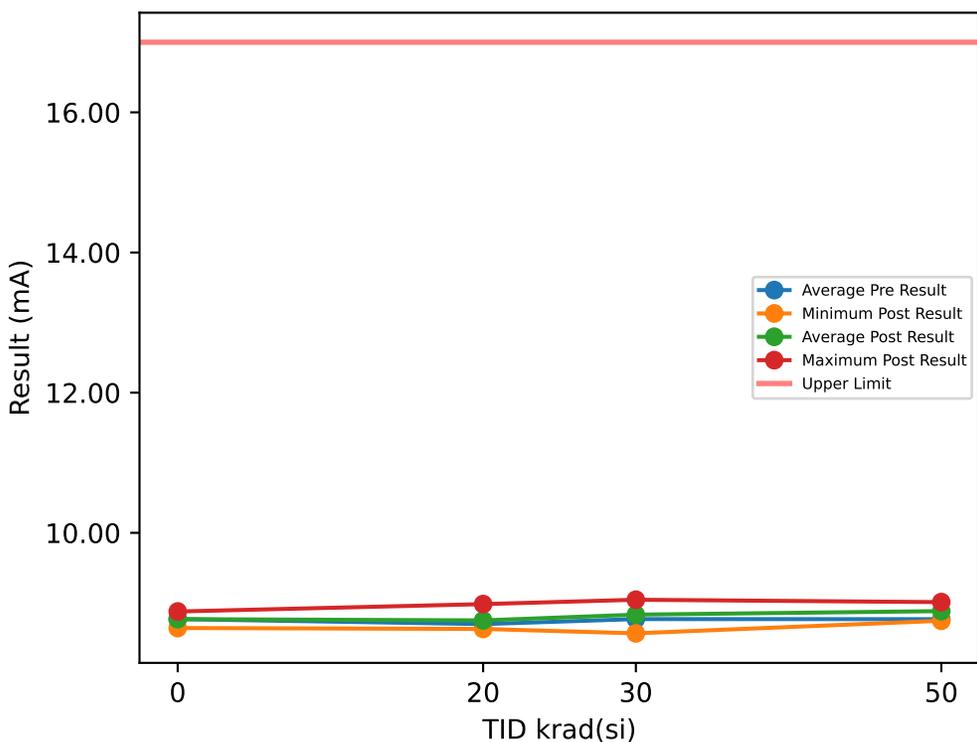
Device Test: 14.5 IDD|SUPPLY CURRENT/IN/12/12/0/0/5/500kHz//@IDD_ACT_500K_NOLOAD

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 17.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	8.6108	8.6287	0.0179
22	20	HDR BIAS	8.7003	8.7491	0.0488
23	20	HDR BIAS	8.6625	8.6964	0.0339
24	20	HDR BIAS	8.6853	8.7561	0.0708
25	20	HDR BIAS	8.9039	8.9829	0.079
26	20	HDR UNBIAS	8.7267	8.7717	0.045
27	20	HDR UNBIAS	8.6618	8.7066	0.0448
28	20	HDR UNBIAS	8.6472	8.7292	0.082
29	20	HDR UNBIAS	8.7674	8.8256	0.0582
30	20	HDR UNBIAS	8.6107	8.6577	0.047
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
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)
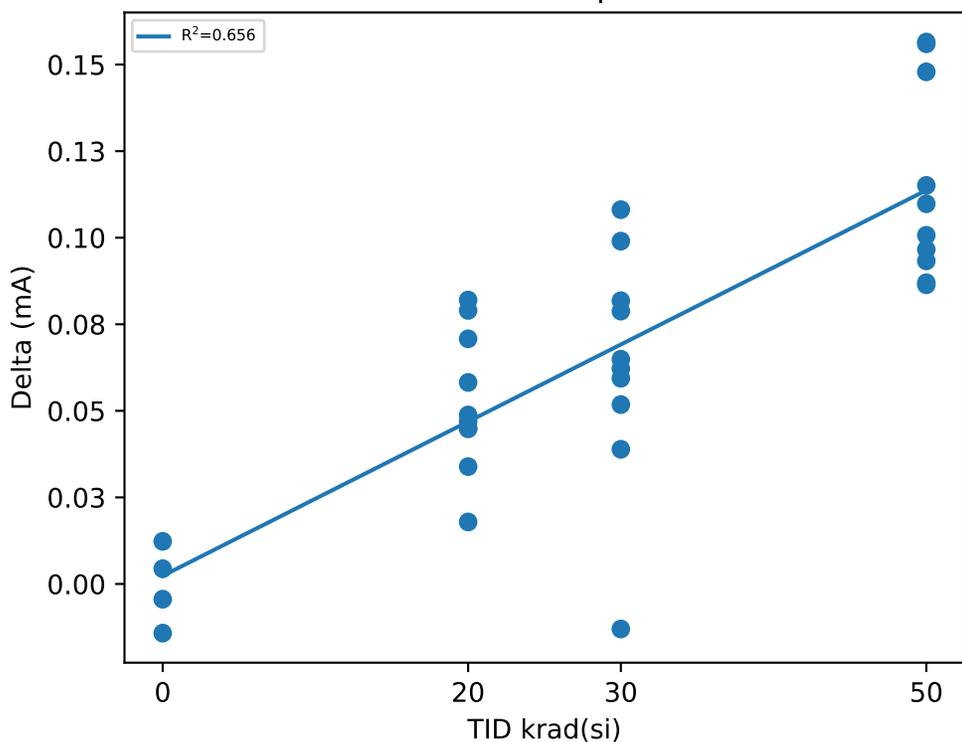
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.6373	8.7691	8.8755	0.11955	8.6417	8.7687	8.8774	0.11842	-0.0142	-0.000475	0.0123	0.011413
20	8.6107	8.6977	8.9039	0.087291	8.6287	8.7504	8.9829	0.09938	0.0179	0.05274	0.082	0.020116
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 8.0 (mA))

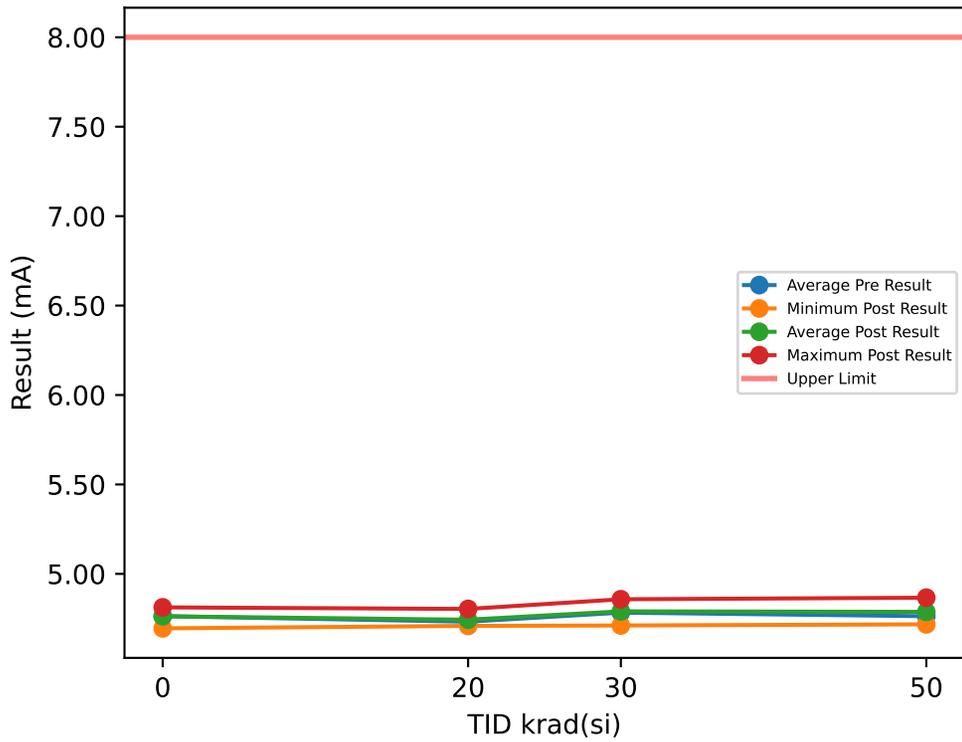| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.7104	4.7135	0.0031
22	20	HDR BIAS	4.7196	4.7447	0.0251
23	20	HDR BIAS	4.7324	4.7346	0.0022
24	20	HDR BIAS	4.7479	4.7554	0.0075
25	20	HDR BIAS	4.7696	4.8041	0.0345
26	20	HDR UNBIAS	4.776	4.7772	0.0012
27	20	HDR UNBIAS	4.7154	4.7144	-0.001
28	20	HDR UNBIAS	4.6987	4.7092	0.0105
29	20	HDR UNBIAS	4.7497	4.7615	0.0118
30	20	HDR UNBIAS	4.7062	4.7237	0.0175
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
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)
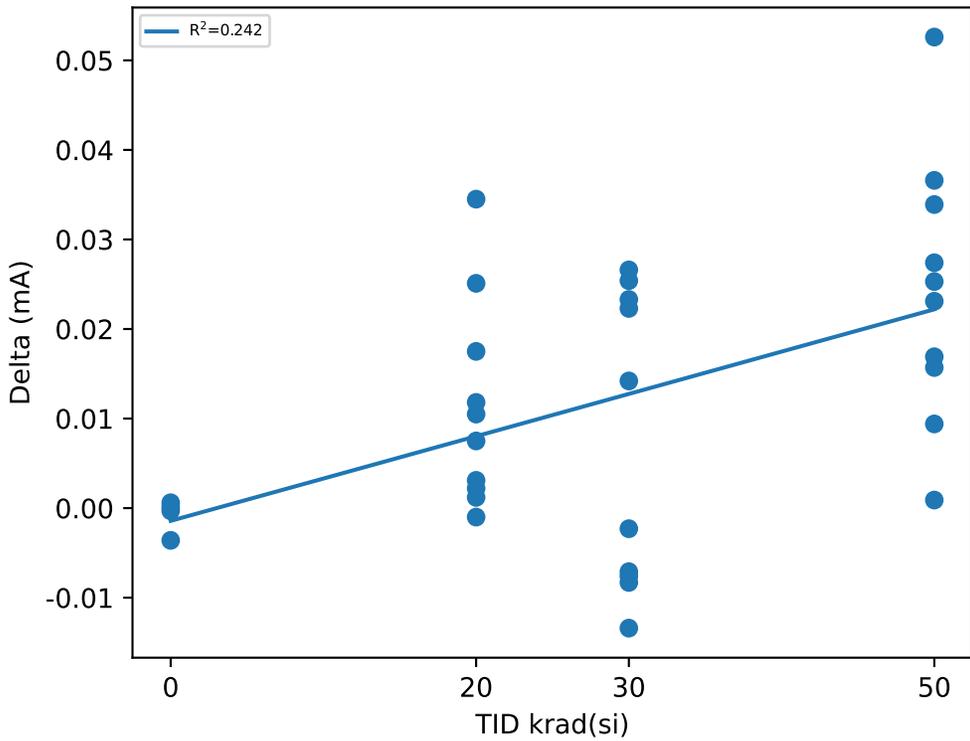
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.6959	4.7637	4.8122	0.048838	4.6956	4.763	4.8128	0.048909	-0.0036	-0.0008	0.0006	0.0019026
20	4.6987	4.7326	4.776	0.027045	4.7092	4.7438	4.8041	0.031035	-0.001	0.01124	0.0345	0.011478
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 17.0 (mA))

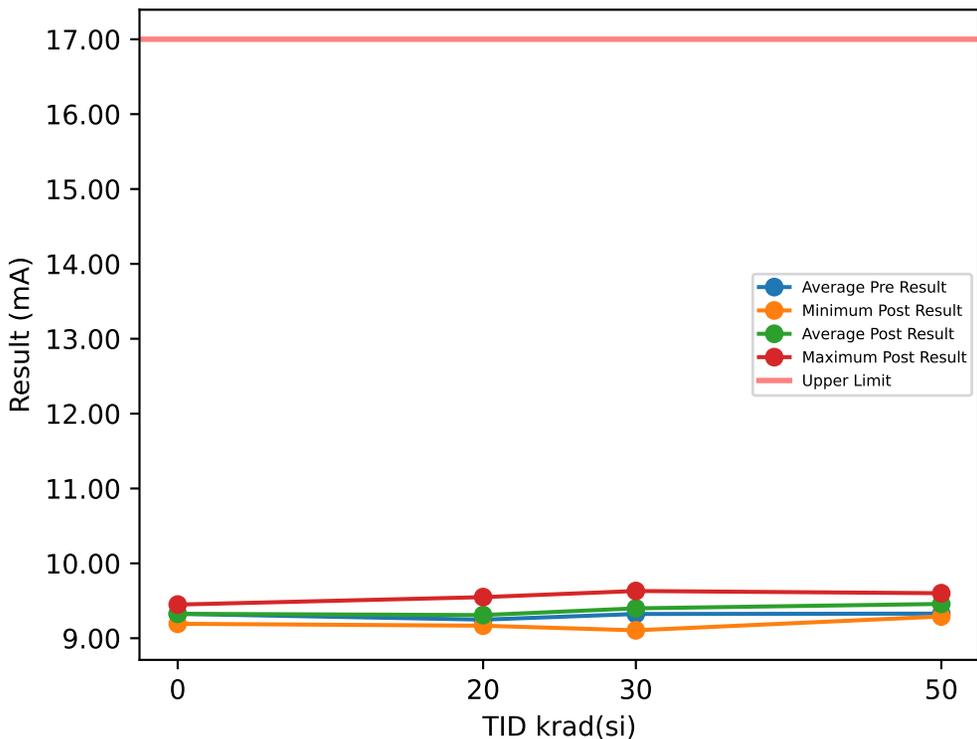| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.1401	9.1674	0.0273
22	20	HDR BIAS	9.2739	9.3243	0.0504
23	20	HDR BIAS	9.2026	9.2444	0.0418
24	20	HDR BIAS	9.229	9.3118	0.0828
25	20	HDR BIAS	9.467	9.549	0.082
26	20	HDR UNBIAS	9.2598	9.3144	0.0546
27	20	HDR UNBIAS	9.2164	9.27	0.0536
28	20	HDR UNBIAS	9.2202	9.3137	0.0935
29	20	HDR UNBIAS	9.319	9.3898	0.0708
30	20	HDR UNBIAS	9.1523	9.2094	0.0571
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
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)
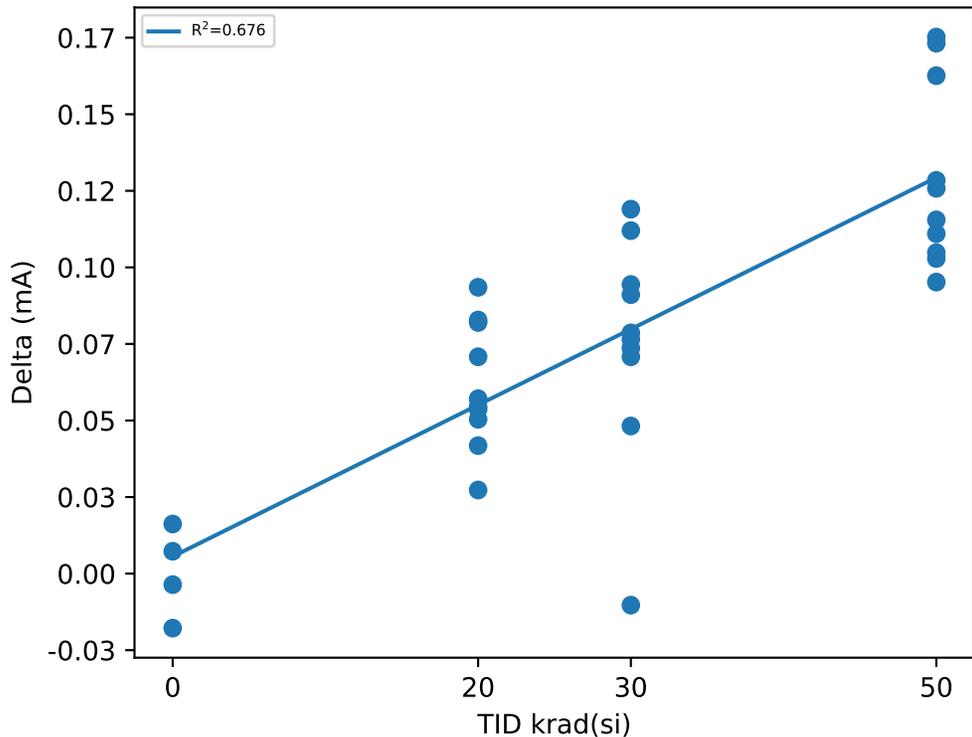
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.1856	9.3256	9.4447	0.13272	9.1929	9.3262	9.4494	0.13078	-0.0178	0.000525	0.0162	0.014656
20	9.1401	9.248	9.467	0.093575	9.1674	9.3094	9.549	0.10545	0.0273	0.06139	0.0935	0.020534
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

R²=0.231

Test Results (Upper Limit = 8.0 (mA))

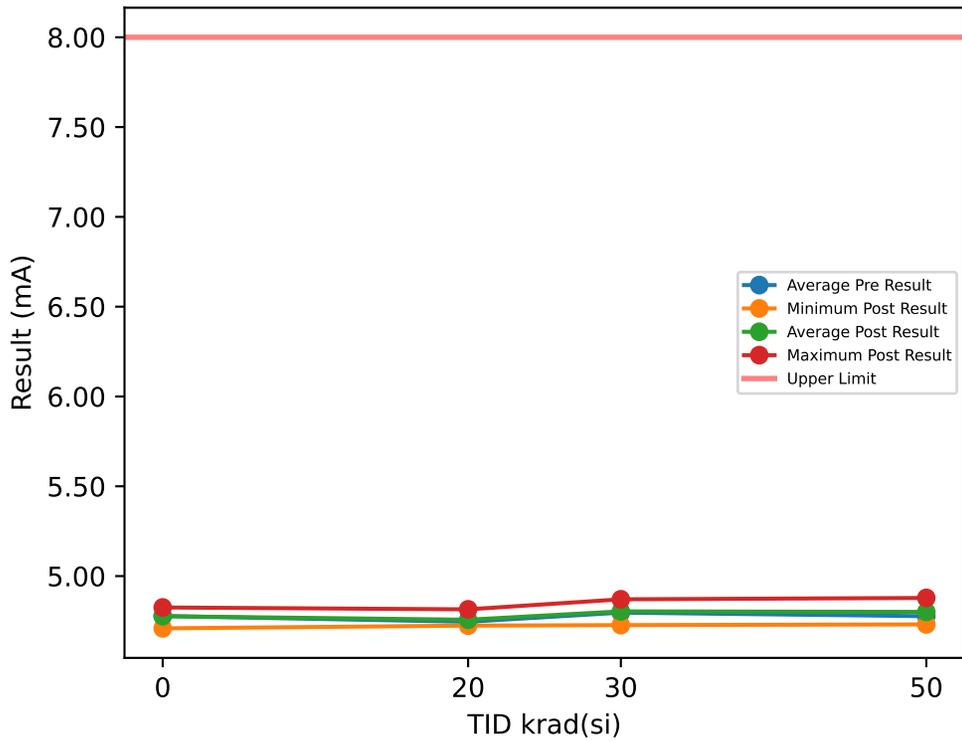| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.7221	4.7263	0.0042
22	20	HDR BIAS	4.7324	4.7581	0.0257
23	20	HDR BIAS	4.7471	4.7503	0.0032
24	20	HDR BIAS	4.7593	4.7671	0.0078
25	20	HDR BIAS	4.7816	4.8148	0.0332
26	20	HDR UNBIAS	4.7872	4.7886	0.0014
27	20	HDR UNBIAS	4.7291	4.7281	-0.001
28	20	HDR UNBIAS	4.7133	4.7241	0.0108
29	20	HDR UNBIAS	4.7618	4.7741	0.0123
30	20	HDR UNBIAS	4.7216	4.7382	0.0166
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
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)
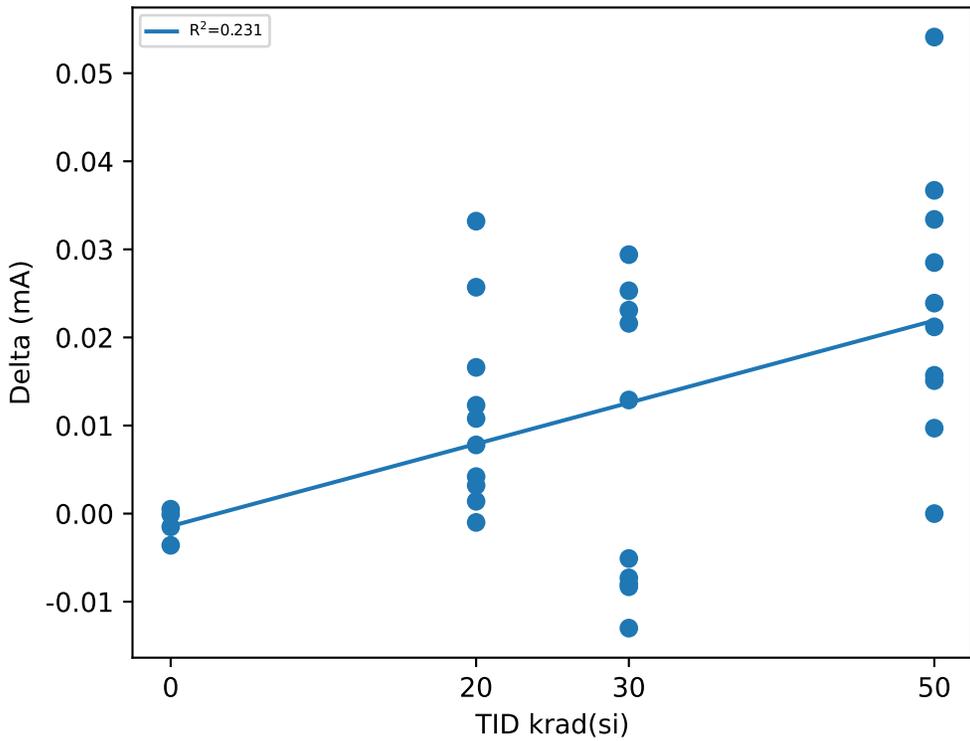
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.7092	4.7777	4.8268	0.049365	4.7091	4.7766	4.8253	0.048657	-0.0036	-0.001175	0.0005	0.0018209
20	4.7133	4.7455	4.7872	0.026028	4.7241	4.757	4.8148	0.029802	-0.001	0.01142	0.0332	0.011024
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

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))

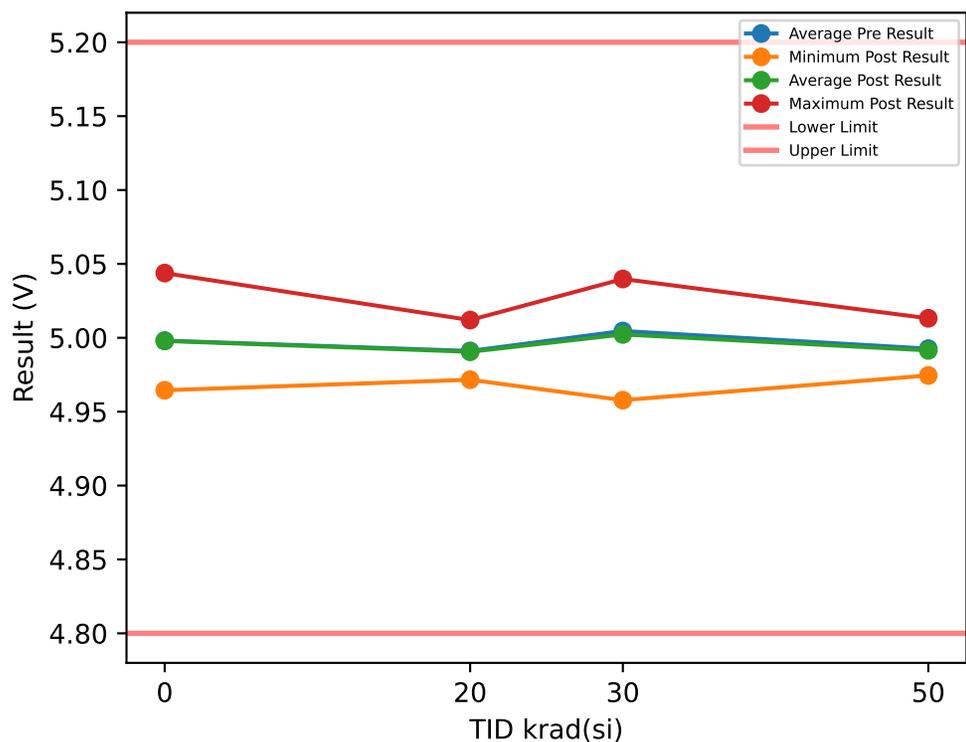| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.9918	4.9942	0.0024
22	20	HDR BIAS	5.0062	5.0049	-0.0013
23	20	HDR BIAS	4.9749	4.9724	-0.0025
24	20	HDR BIAS	4.9983	4.9983	0
25	20	HDR BIAS	4.9926	4.9908	-0.0018
26	20	HDR UNBIAS	4.9729	4.9716	-0.0013
27	20	HDR UNBIAS	4.971	4.972	0.001
28	20	HDR UNBIAS	4.9875	4.9872	-0.0003
29	20	HDR UNBIAS	5.0107	5.012	0.0013
30	20	HDR UNBIAS	5.005	5.0019	-0.0031
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
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
20	4.971	4.9911	5.0107	0.014417	4.9716	4.9905	5.012	0.014576	-0.0031	-0.00056	0.0024	0.0017602
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

Device Test: 15.16 VLDO|V_VLDO/VLDO/12/12/0/0/5/500kHz//@V_LDO_INT
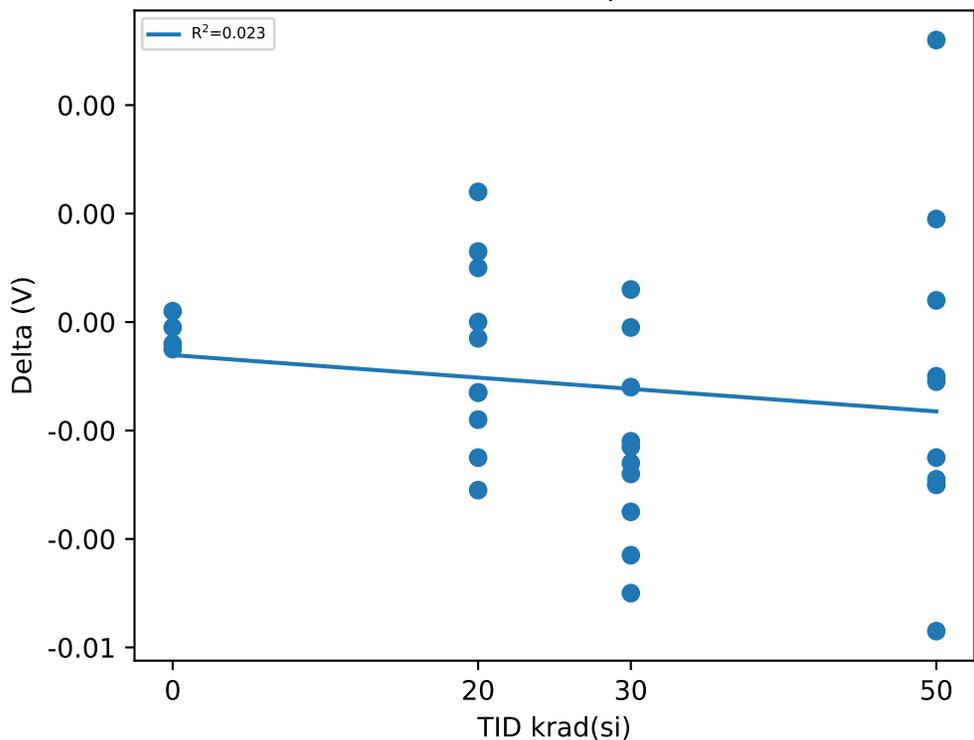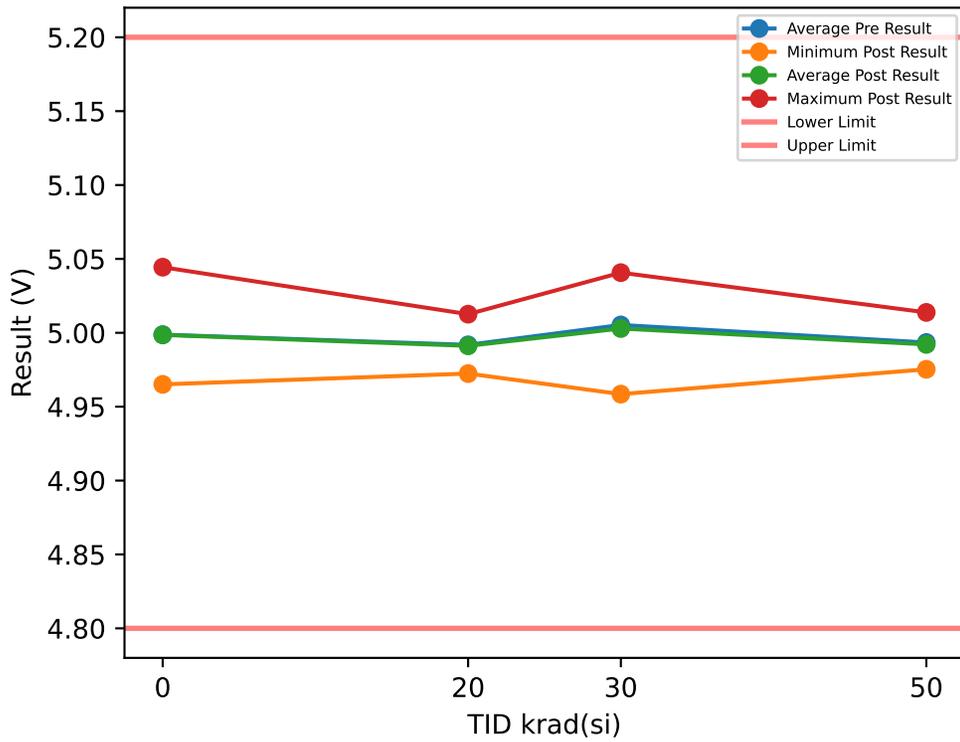
TID vs Result Stats

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
21	20	HDR BIAS	4.9925	4.9948	0.0023
22	20	HDR BIAS	5.0069	5.0058	-0.0011
23	20	HDR BIAS	4.9756	4.973	-0.0026
24	20	HDR BIAS	4.9991	4.9988	-0.0003
25	20	HDR BIAS	4.9934	4.9914	-0.002
26	20	HDR UNBIAS	4.9736	4.9724	-0.0012
27	20	HDR UNBIAS	4.9719	4.9726	0.0007
28	20	HDR UNBIAS	4.9881	4.9878	-0.0003
29	20	HDR UNBIAS	5.0115	5.0126	0.0011
30	20	HDR UNBIAS	5.0058	5.0026	-0.0032
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
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)
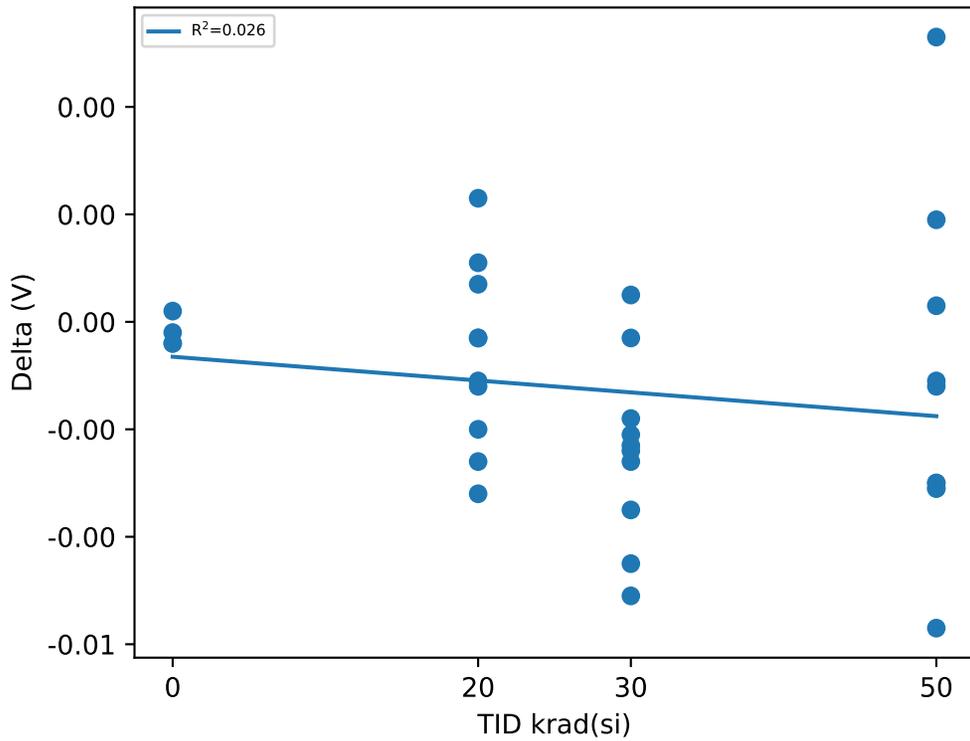
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9655	4.9988	5.0446	0.034902	4.9651	4.9985	5.0444	0.035032	-0.0004	-0.0002	0.0002	0.00028284
20	4.9719	4.9918	5.0115	0.014421	4.9724	4.9912	5.0126	0.014583	-0.0032	-0.00066	0.0023	0.0017148
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

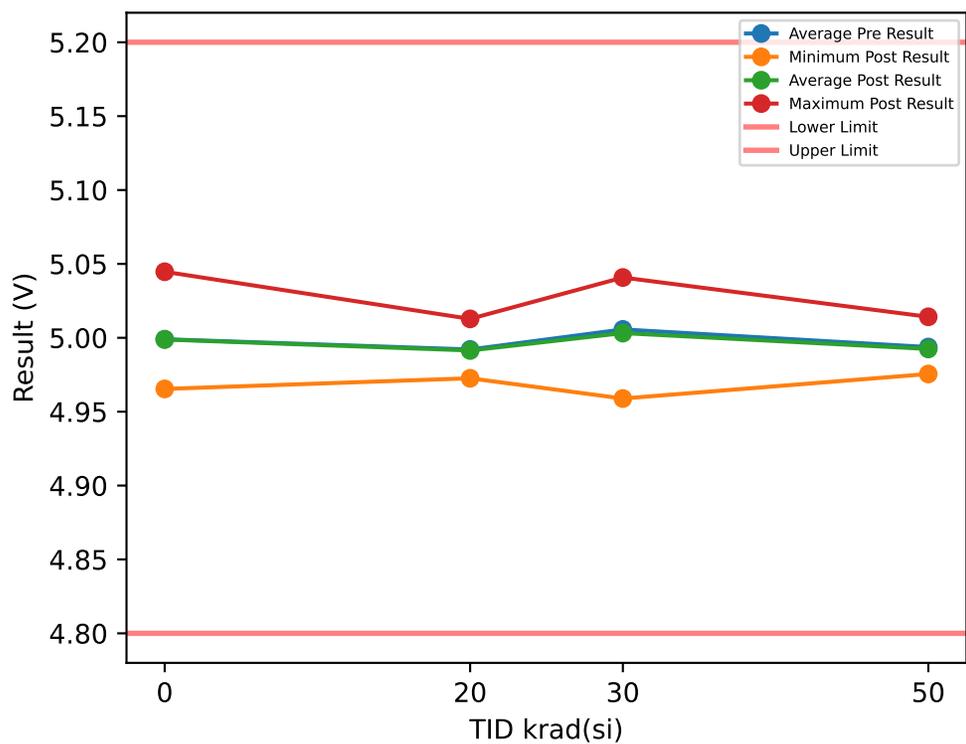| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	4.9927	4.9952	0.0025
22	20	HDR BIAS	5.0073	5.0059	-0.0014
23	20	HDR BIAS	4.9758	4.9733	-0.0025
24	20	HDR BIAS	4.9993	4.9991	-0.0002
25	20	HDR BIAS	4.9937	4.9916	-0.0021
26	20	HDR UNBIAS	4.9739	4.9726	-0.0013
27	20	HDR UNBIAS	4.972	4.9729	0.0009
28	20	HDR UNBIAS	4.9885	4.988	-0.0005
29	20	HDR UNBIAS	5.0116	5.0128	0.0012
30	20	HDR UNBIAS	5.0061	5.0028	-0.0033
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
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)
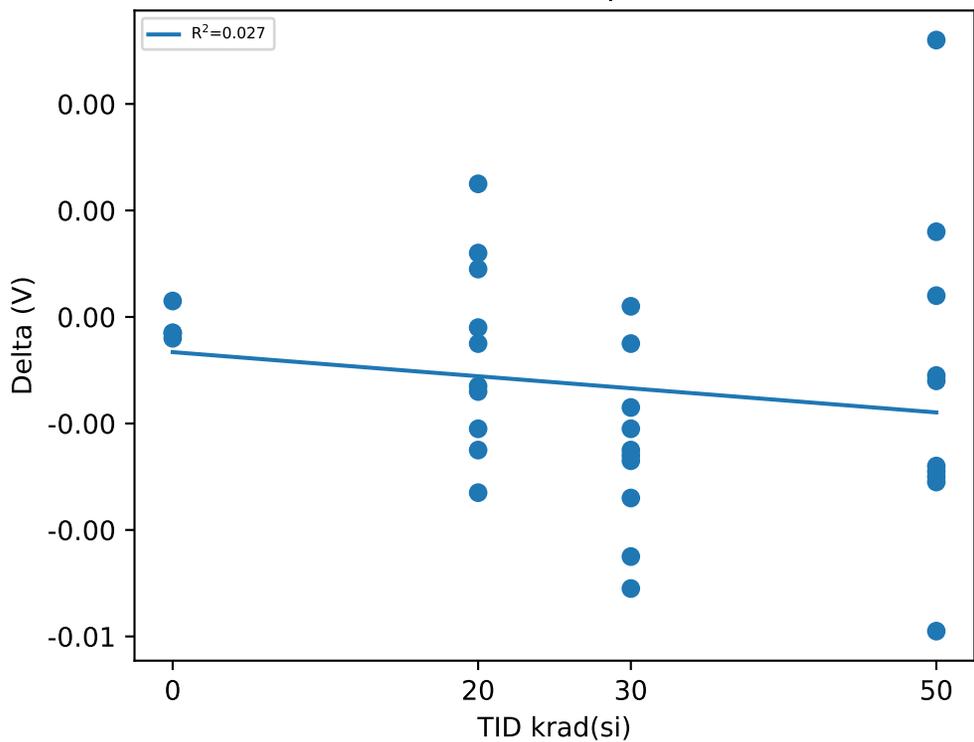
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	4.9657	4.999	5.045	0.03497	4.9654	4.9989	5.0447	0.035032	-0.0004	-0.000175	0.0003	0.00032016
20	4.972	4.9921	5.0116	0.014437	4.9726	4.9914	5.0128	0.014556	-0.0033	-0.00067	0.0025	0.0018105
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
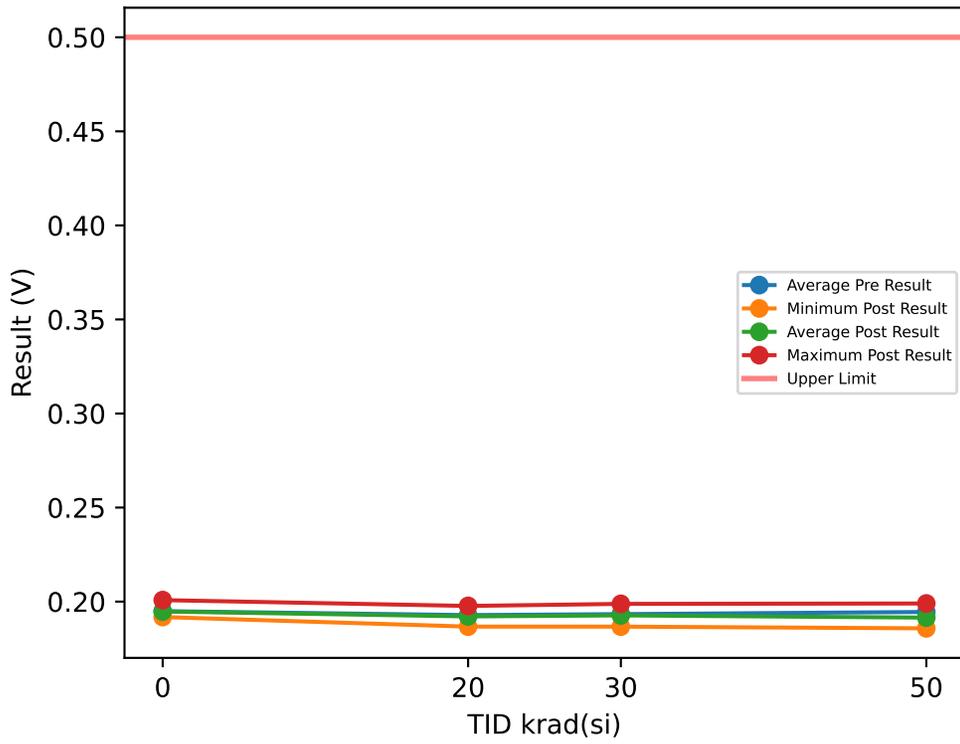
Device Test: 15.19 VLDO|VDO_VLDO/VLDO/8/8/0/0/5/500kHz//@V_LDO_DO_INT

TID vs Result Stats

Result (V) vs TID krad(si)

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

TID vs Post - Pre Exposure Delta

Delta (V) vs TID krad(si)

R²=0.030

Test Results (Upper Limit = 0.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1904	0.1956	0.0052
22	20	HDR BIAS	0.1937	0.1953	0.0016
23	20	HDR BIAS	0.1869	0.1879	0.001
24	20	HDR BIAS	0.1957	0.1977	0.002
25	20	HDR BIAS	0.1935	0.193	-0.0005
26	20	HDR UNBIAS	0.1983	0.1867	-0.0116
27	20	HDR UNBIAS	0.1979	0.1893	-0.0086
28	20	HDR UNBIAS	0.1906	0.1897	-0.0009
29	20	HDR UNBIAS	0.1943	0.1977	0.0034
30	20	HDR UNBIAS	0.187	0.1884	0.0014
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
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)
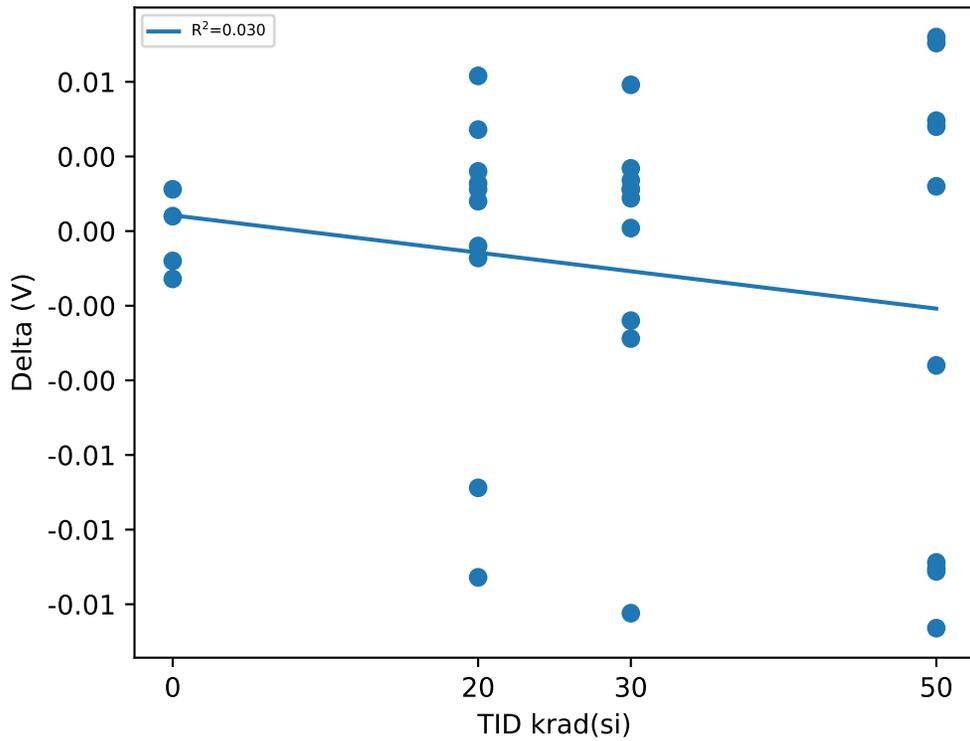
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1926	0.19492	0.1994	0.0031595	0.1918	0.19475	0.2008	0.0040878	-0.0016	-0.000175	0.0014	0.001372
20	0.1869	0.19283	0.1983	0.004045	0.1867	0.19213	0.1977	0.0042177	-0.0116	-0.0007	0.0052	0.0052999
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
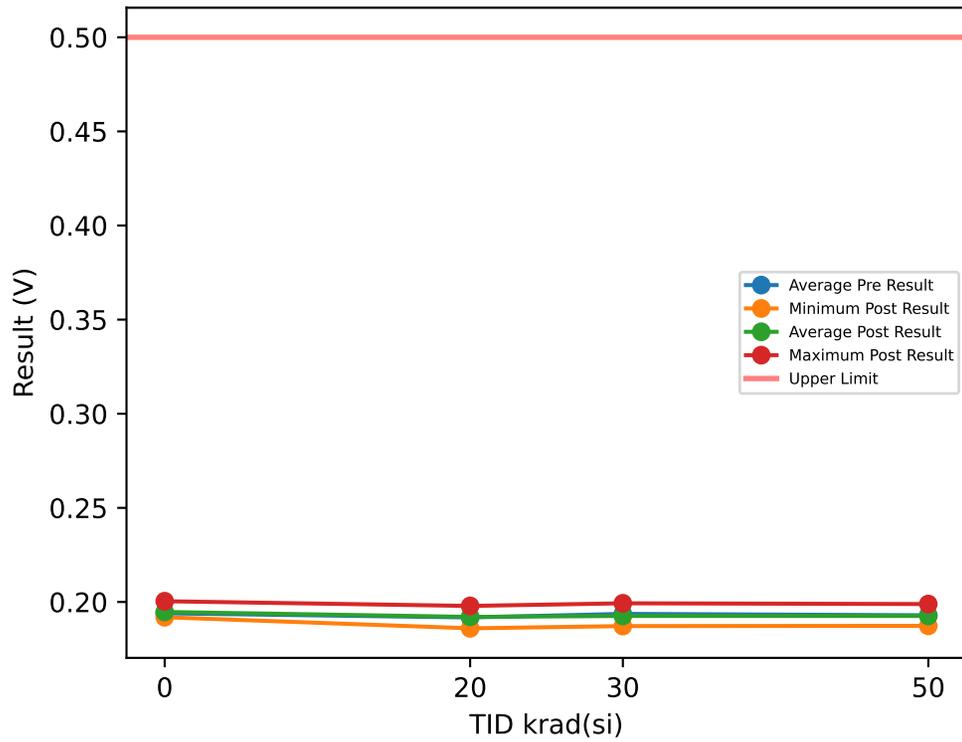
Device Test: 15.20 VLDO|VDO_VLDO/VLDO/12/12/0/0/5/500kHz//@V_LDO_DO_INT

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1908	0.1957	0.0049
22	20	HDR BIAS	0.194	0.1958	0.0018
23	20	HDR BIAS	0.1872	0.1878	0.0006
24	20	HDR BIAS	0.1994	0.1906	-0.0088
25	20	HDR BIAS	0.1941	0.1937	-0.0004
26	20	HDR UNBIAS	0.1981	0.186	-0.0121
27	20	HDR UNBIAS	0.1857	0.1891	0.0034
28	20	HDR UNBIAS	0.1859	0.1957	0.0098
29	20	HDR UNBIAS	0.1953	0.1979	0.0026
30	20	HDR UNBIAS	0.1873	0.1884	0.0011
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
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)
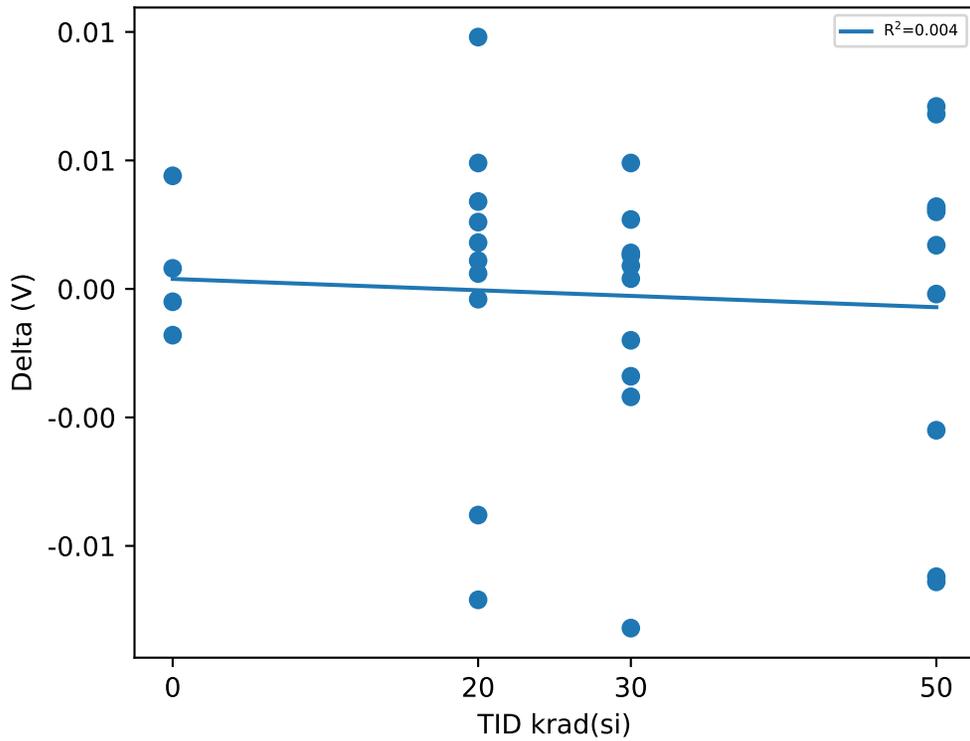
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1895	0.19398	0.1996	0.0042555	0.1919	0.1947	0.2004	0.0038893	-0.0018	0.000725	0.0044	0.00267
20	0.1857	0.19178	0.1994	0.0051018	0.186	0.19207	0.1979	0.0041692	-0.0121	0.00029	0.0098	0.0063801
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
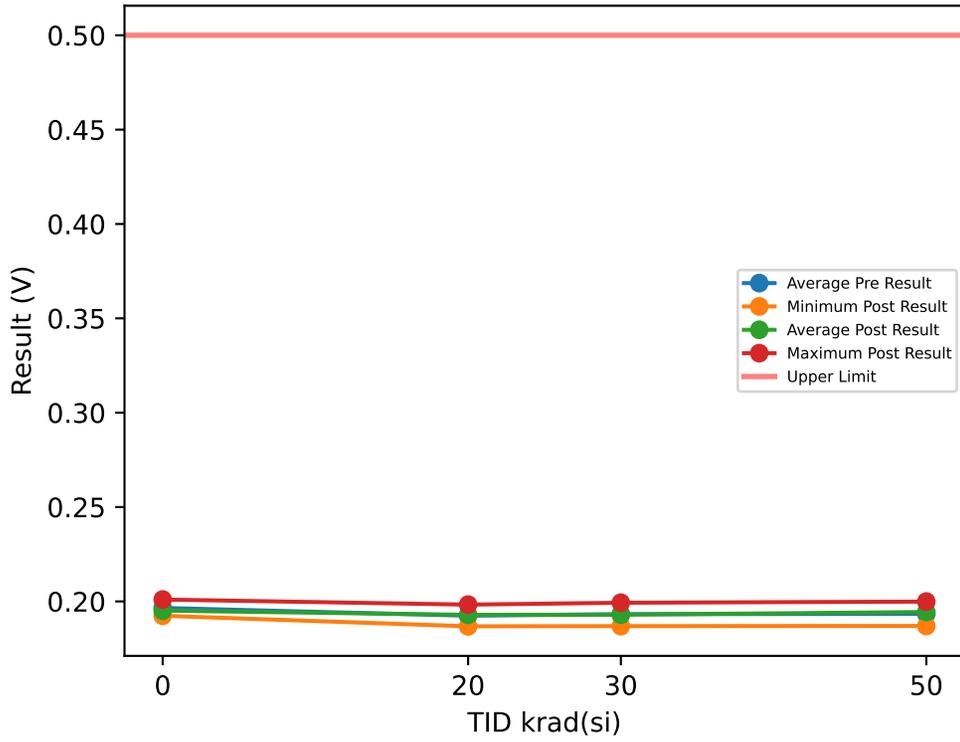
Device Test: 15.21 VLDO|VDO_VLDO/VLDO/14/14/0/0/5/500kHz//@V_LDO_DO_INT

TID vs Result Stats

TID vs Post - Pre Exposure Delta

R^2=0.016

Test Results (Upper Limit = 0.5 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1952	0.196	0.0008
22	20	HDR BIAS	0.1945	0.1959	0.0014
23	20	HDR BIAS	0.1886	0.188	-0.0006
24	20	HDR BIAS	0.1917	0.1945	0.0028
25	20	HDR BIAS	0.1944	0.194	-0.0004
26	20	HDR UNBIAS	0.1986	0.1868	-0.0118
27	20	HDR UNBIAS	0.189	0.189	0
28	20	HDR UNBIAS	0.1906	0.1983	0.0077
29	20	HDR UNBIAS	0.1951	0.1979	0.0028
30	20	HDR UNBIAS	0.1866	0.1885	0.0019
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
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)
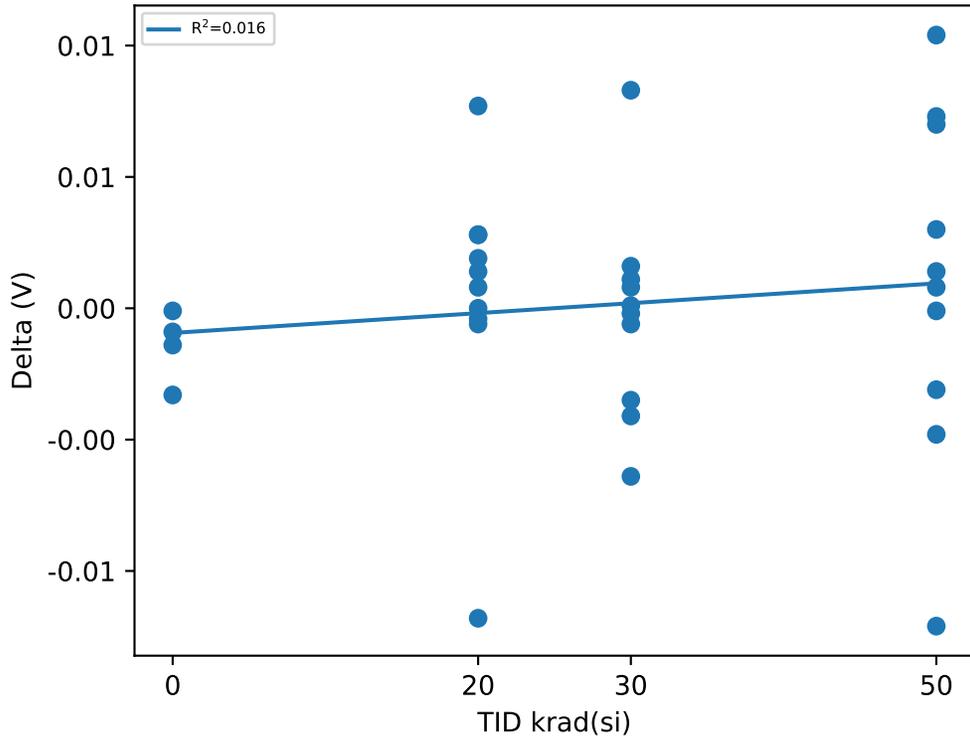
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1938	0.19655	0.2011	0.0032005	0.1924	0.19512	0.201	0.0039794	-0.0033	-0.001425	-0.0001	0.0013598
20	0.1866	0.19243	0.1986	0.0037319	0.1868	0.19289	0.1983	0.0043758	-0.0118	0.00046	0.0077	0.0049309
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

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))

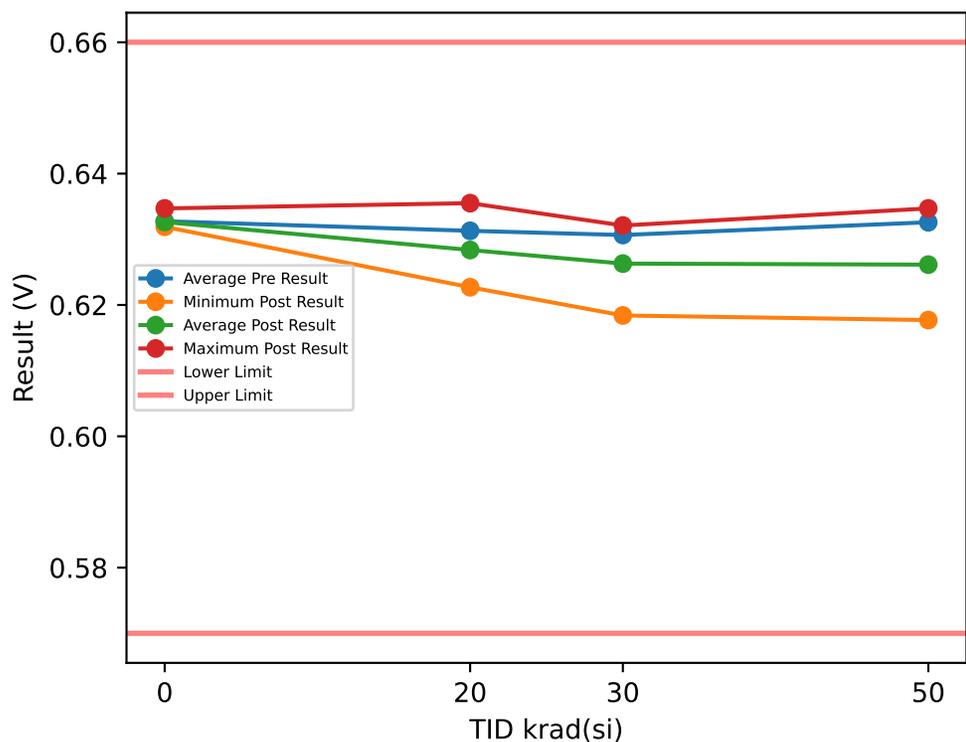| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6287	0.6227	-0.006
22	20	HDR BIAS	0.6313	0.6252	-0.0061
23	20	HDR BIAS	0.6305	0.626	-0.0045
24	20	HDR BIAS	0.6302	0.624	-0.0062
25	20	HDR BIAS	0.6319	0.6258	-0.0061
26	20	HDR UNBIAS	0.6325	0.6332	0.0007
27	20	HDR UNBIAS	0.6306	0.6307	0.0001
28	20	HDR UNBIAS	0.6346	0.6355	0.0009
29	20	HDR UNBIAS	0.6312	0.6301	-0.0011
30	20	HDR UNBIAS	0.6314	0.6305	-0.0009
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
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)
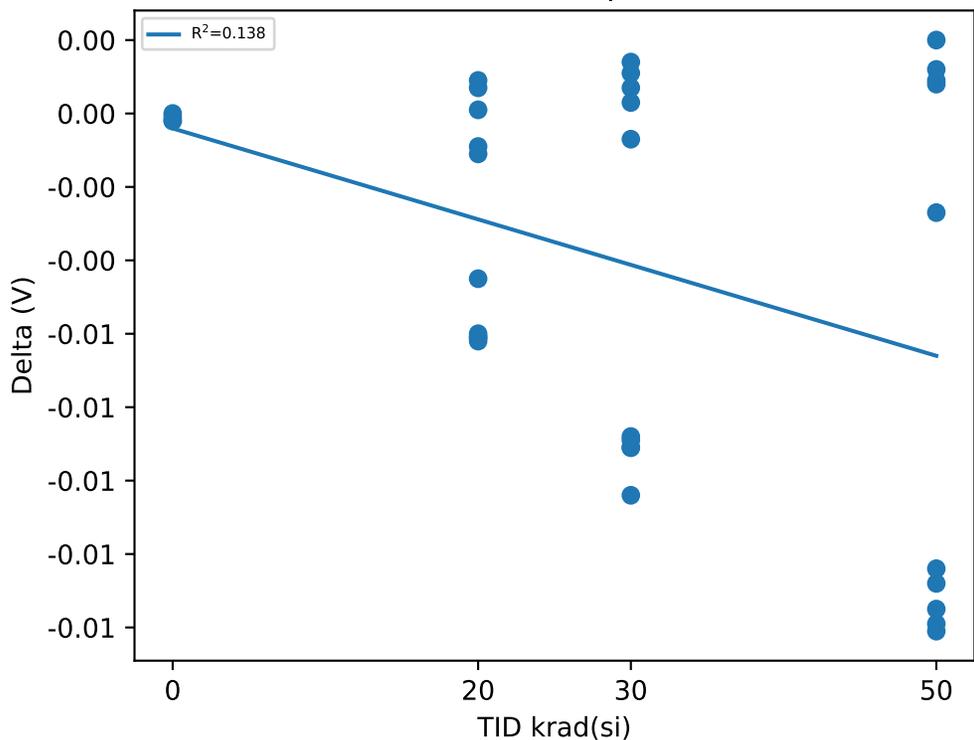
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.632	0.63275	0.6348	0.0013675	0.6319	0.63262	0.6347	0.0013841	-0.0002	-0.000125	0	9.5743e-05
20	0.6287	0.63129	0.6346	0.0015567	0.6227	0.62837	0.6355	0.0042248	-0.0062	-0.00292	0.0009	0.0031123
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

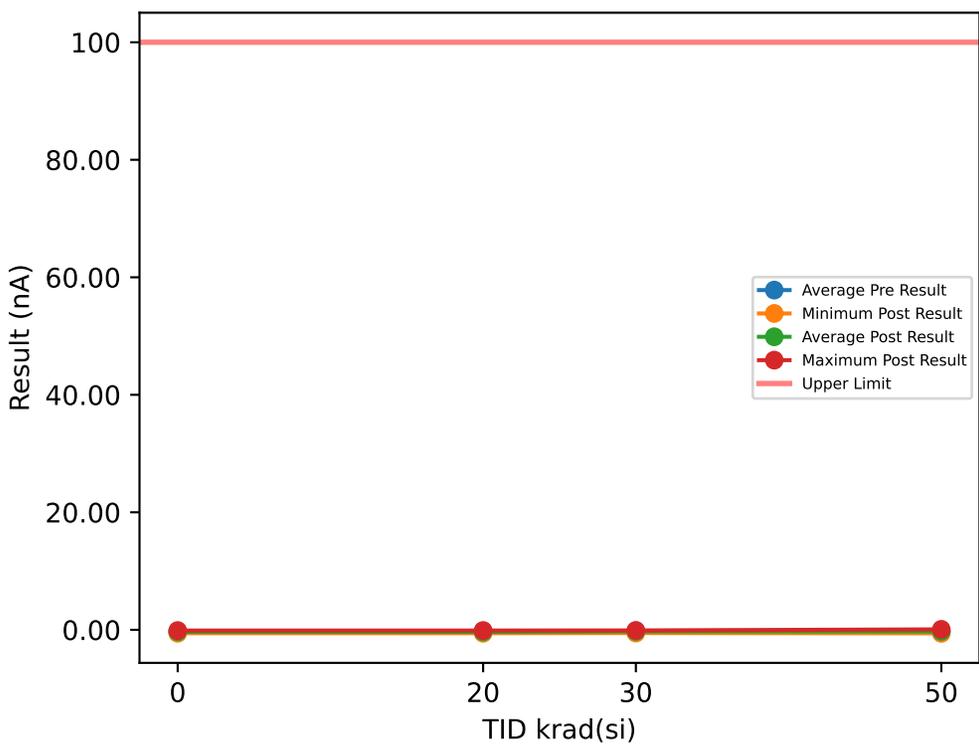| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5194	0.5133	-0.0061
22	20	HDR BIAS	0.5213	0.516	-0.0053
23	20	HDR BIAS	0.5222	0.5174	-0.0048
24	20	HDR BIAS	0.5215	0.5146	-0.0069
25	20	HDR BIAS	0.5234	0.5175	-0.0059
26	20	HDR UNBIAS	0.5249	0.5243	-0.0006
27	20	HDR UNBIAS	0.5216	0.5217	0.0001
28	20	HDR UNBIAS	0.5253	0.5261	0.0008
29	20	HDR UNBIAS	0.5229	0.5215	-0.0014
30	20	HDR UNBIAS	0.5221	0.5214	-0.0007
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
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

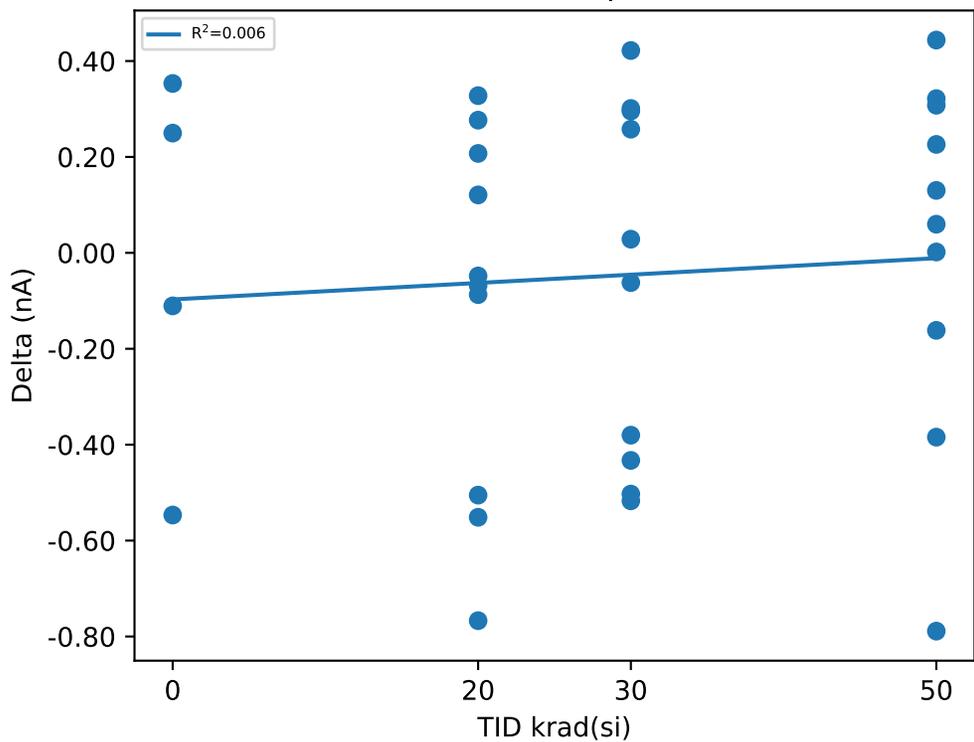## Test Statistics (V)

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
20	0.5194	0.52246	0.5253	0.0017532	0.5133	0.51938	0.5261	0.0042429	-0.0069	-0.00308	0.0008	0.0029694
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

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

TID vs Result Stats
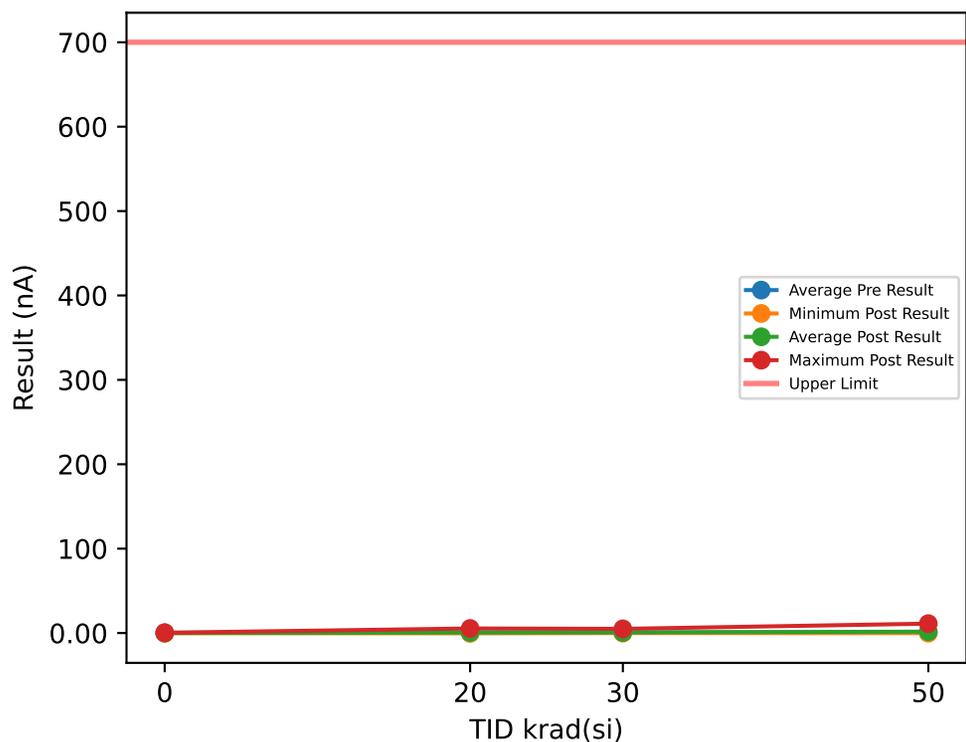

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.4434	-0.2361	0.2073
22	20	HDR BIAS	0.266	-0.501	-0.767
23	20	HDR BIAS	-0.492	-0.3712	0.1208
24	20	HDR BIAS	-0.4466	-0.1699	0.2767
25	20	HDR BIAS	0.2691	-0.2361	-0.5052
26	20	HDR UNBIAS	-0.5077	-0.5759	-0.0682
27	20	HDR UNBIAS	-0.3716	-0.4587	-0.0871
28	20	HDR UNBIAS	0.3691	-0.1823	-0.5514
29	20	HDR UNBIAS	-0.4452	-0.1174	0.3278
30	20	HDR UNBIAS	-0.4434	-0.4916	-0.0482
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
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
20	-0.5077	-0.22457	0.3691	0.36574	-0.5759	-0.33402	-0.1174	0.16472	-0.767	-0.10945	0.3278	0.3777
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 700.0 (nA))

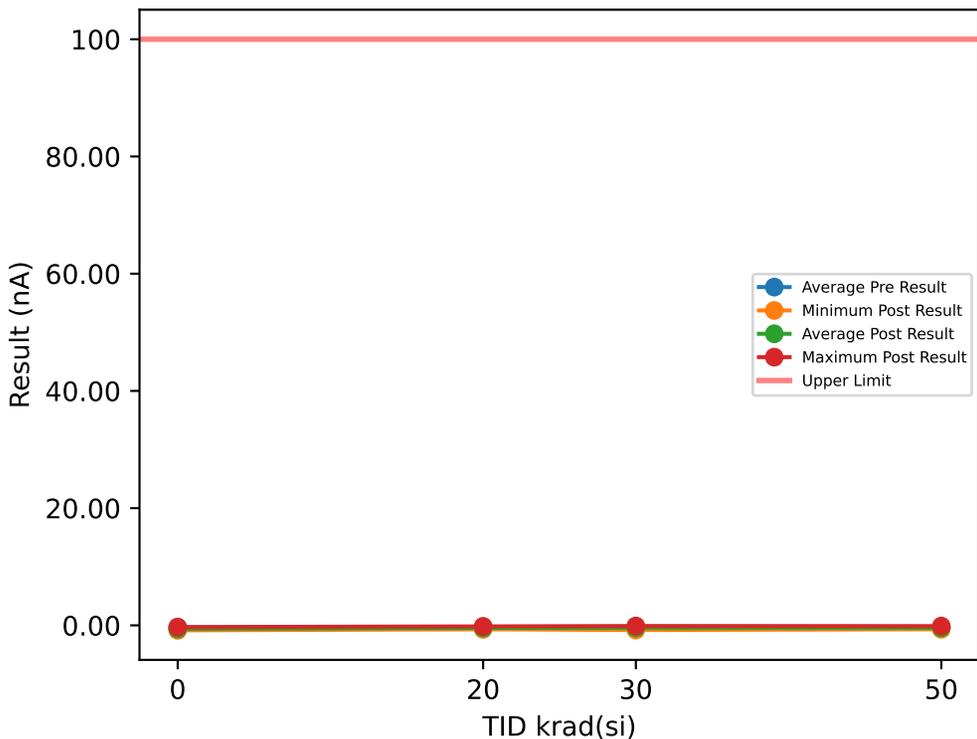| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.2401	0.6602	0.4201
22	20	HDR BIAS	1.3472	0.0547	-1.2925
23	20	HDR BIAS	-0.0519	0.1252	0.1771
24	20	HDR BIAS	-0.0377	0.1415	0.1792
25	20	HDR BIAS	1.3566	0.3666	-0.99
26	20	HDR UNBIAS	-0.2236	-0.3293	-0.1057
27	20	HDR UNBIAS	0.0185	-0.0871	-0.1056
28	20	HDR UNBIAS	1.4285	0.263	-1.1655
29	20	HDR UNBIAS	2.0709	5.4226	3.3517
30	20	HDR UNBIAS	-0.0314	-0.0702	-0.0388
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
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)
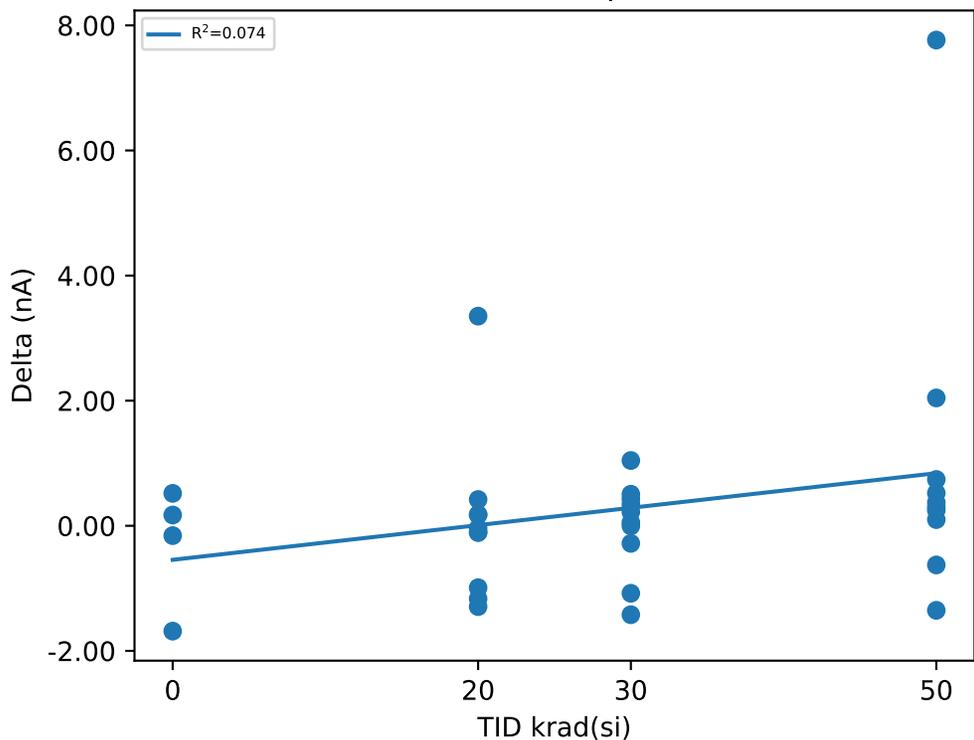
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.1924	0.28353	1.5253	0.83025	-0.2013	-0.004275	0.3635	0.25706	-1.6842	-0.2878	0.5184	0.97096
20	-0.2236	0.61172	2.0709	0.84035	-0.3293	0.65472	5.4226	1.697	-1.2925	0.043	3.3517	1.3118
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (nA))

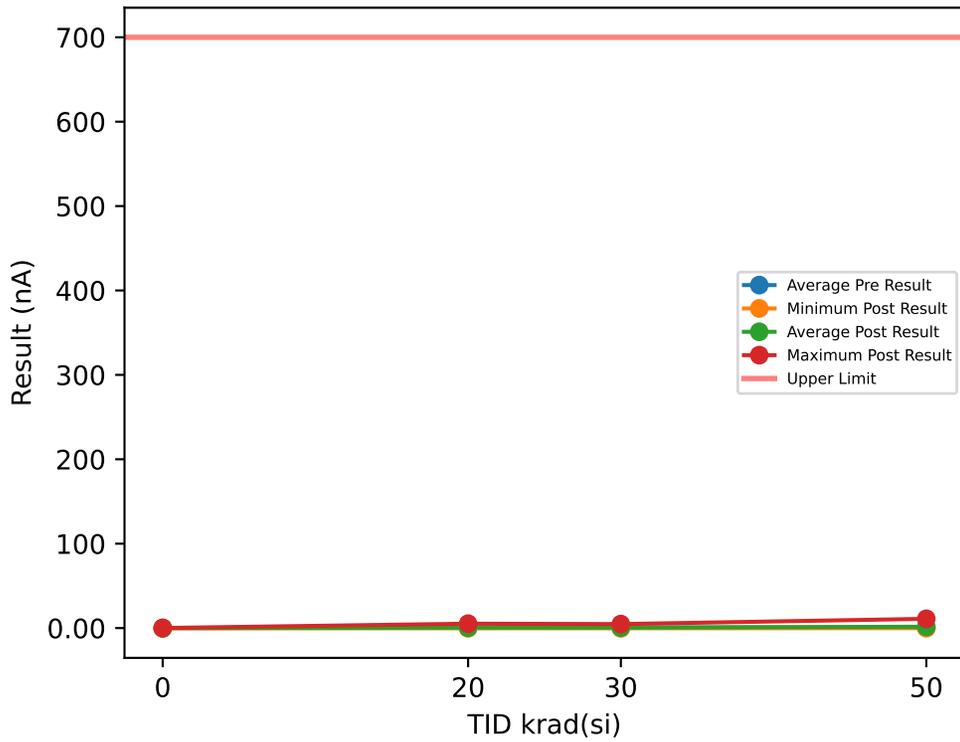| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.5371	-0.4578	0.0793
22	20	HDR BIAS	0.2004	-0.6696	-0.87
23	20	HDR BIAS	-0.6107	-0.4524	0.1583
24	20	HDR BIAS	-0.4372	-0.1761	0.2611
25	20	HDR BIAS	0.2754	-0.4828	-0.7582
26	20	HDR UNBIAS	-0.5701	-0.5978	-0.0277
27	20	HDR UNBIAS	-0.4715	-0.4555	0.016
28	20	HDR UNBIAS	0.2847	-0.1823	-0.467
29	20	HDR UNBIAS	-0.5701	-0.3329	0.2372
30	20	HDR UNBIAS	-0.5059	-0.5853	-0.0794
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
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)
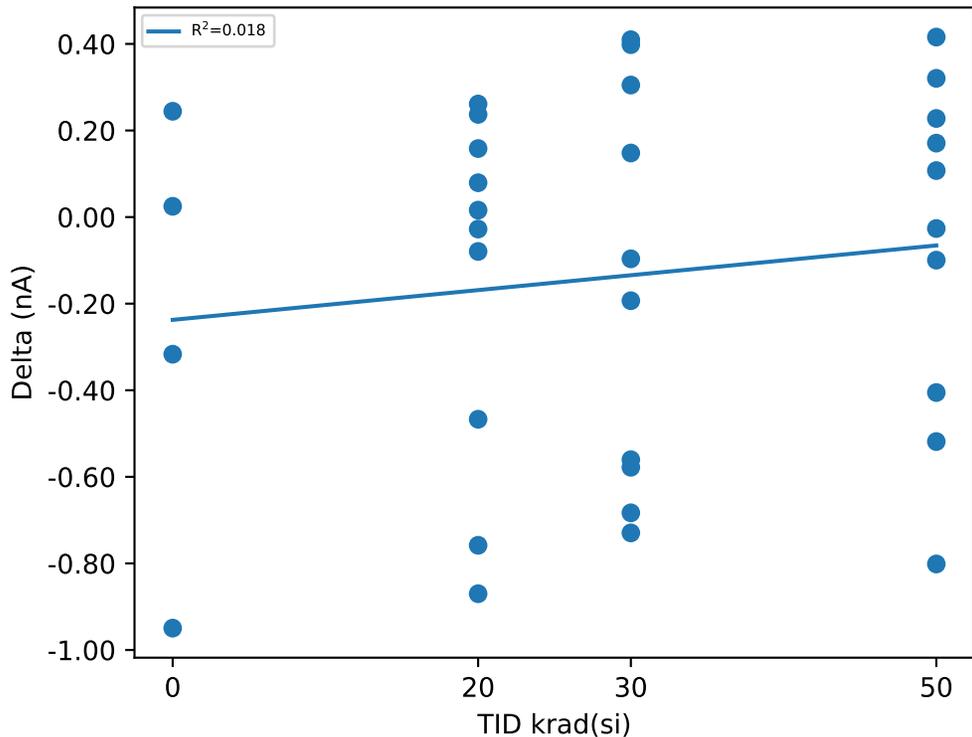
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.5826	-0.33798	0.3035	0.42823	-0.8476	-0.58722	-0.2976	0.22804	-0.9495	-0.24925	0.2444	0.52082
20	-0.6107	-0.29421	0.2847	0.38185	-0.6696	-0.43925	-0.1761	0.16626	-0.87	-0.14504	0.2611	0.4086
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

## 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))

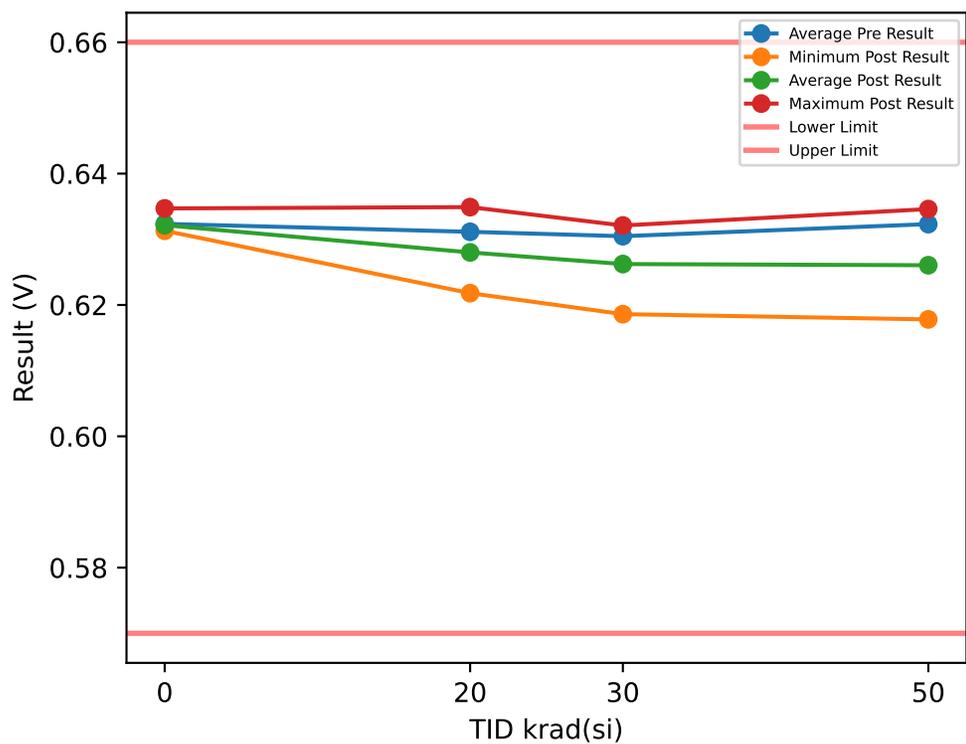| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1277	0.5696	0.4419
22	20	HDR BIAS	1.2472	-0.0108	-1.258
23	20	HDR BIAS	-0.1549	0.0034	0.1583
24	20	HDR BIAS	-0.1969	0.0792	0.2761
25	20	HDR BIAS	1.3004	0.3979	-0.9025
26	20	HDR UNBIAS	-0.3079	-0.2887	0.0192
27	20	HDR UNBIAS	-0.1844	-0.1246	0.0598
28	20	HDR UNBIAS	1.2941	0.2287	-1.0654
29	20	HDR UNBIAS	2.0521	5.1978	3.1457
30	20	HDR UNBIAS	-0.1438	-0.1638	-0.02
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
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)
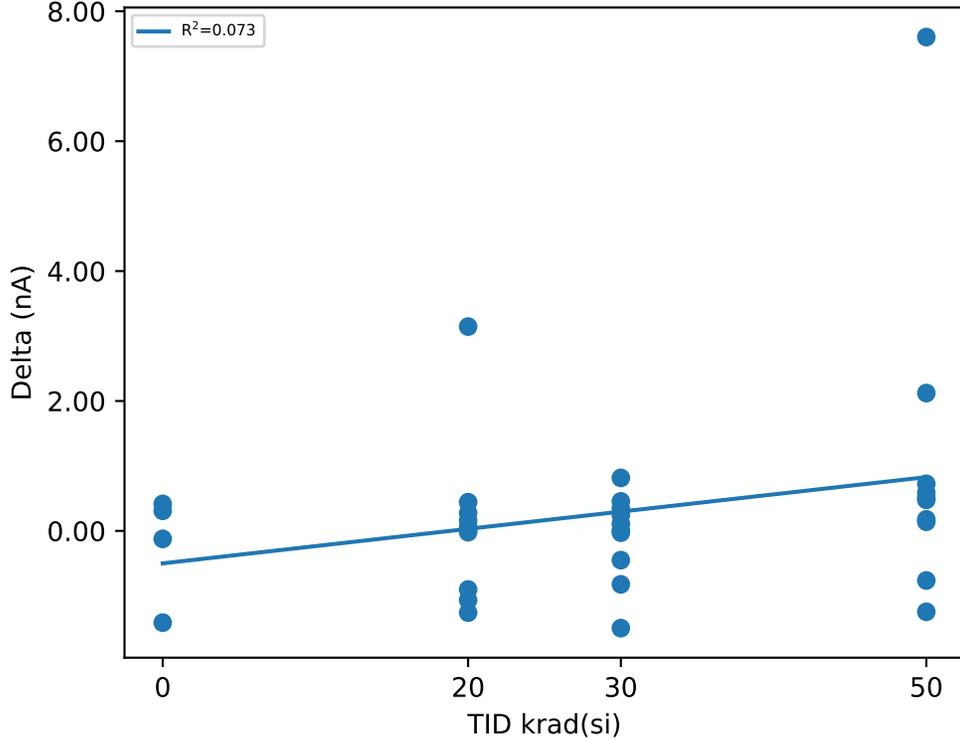
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.2985	0.1102	1.2097	0.73525	-0.2981	-0.09255	0.1199	0.19164	-1.4124	-0.20275	0.4153	0.83938
20	-0.3079	0.50336	2.0521	0.87096	-0.2887	0.58887	5.1978	1.6403	-1.258	0.08551	3.1457	1.2318
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

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

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

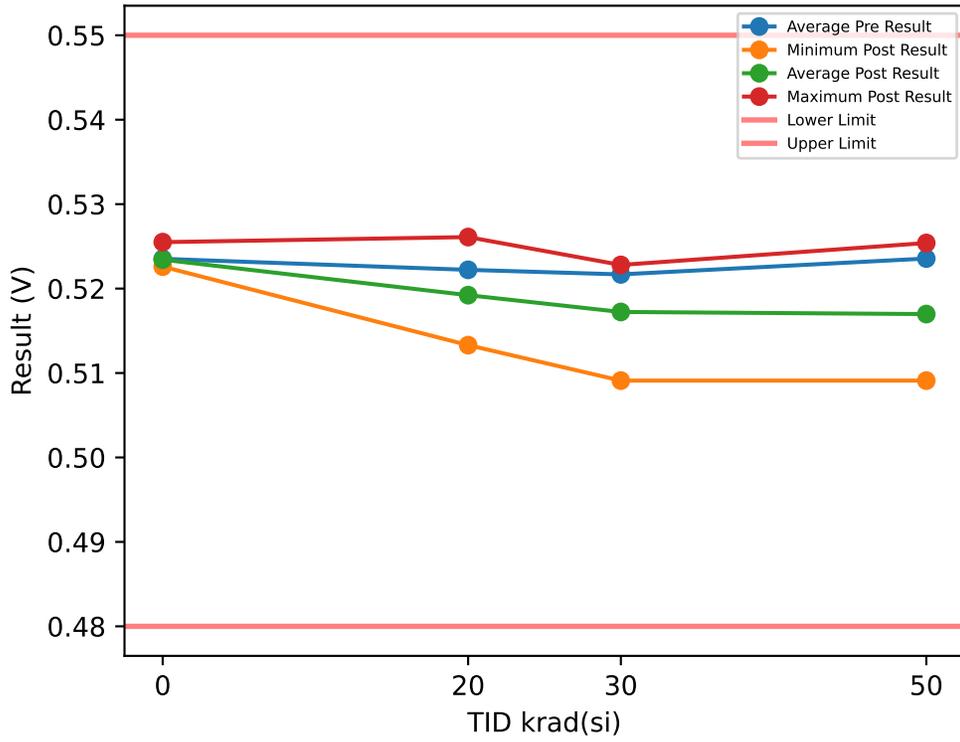| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6284	0.6218	-0.0066
22	20	HDR BIAS	0.6308	0.6253	-0.0055
23	20	HDR BIAS	0.6299	0.6252	-0.0047
24	20	HDR BIAS	0.6299	0.6239	-0.006
25	20	HDR BIAS	0.6321	0.6253	-0.0068
26	20	HDR UNBIAS	0.6326	0.6332	0.0006
27	20	HDR UNBIAS	0.6301	0.6307	0.0006
28	20	HDR UNBIAS	0.6348	0.6349	0.0001
29	20	HDR UNBIAS	0.6312	0.6299	-0.0013
30	20	HDR UNBIAS	0.6316	0.6298	-0.0018
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
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)
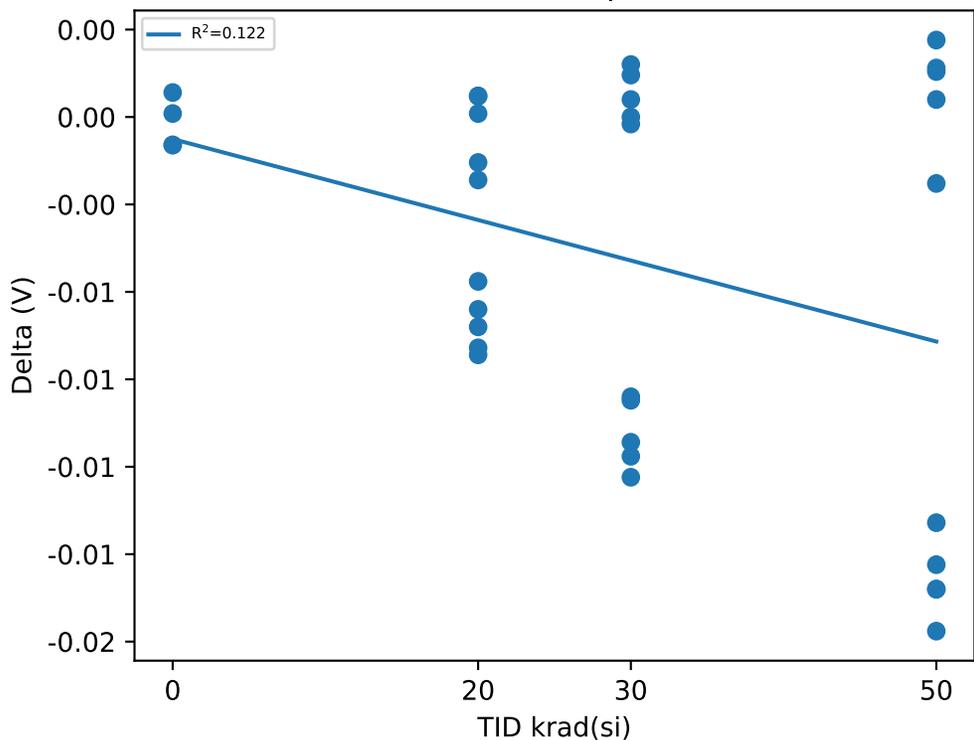
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6312	0.63235	0.634	0.001179	0.6313	0.63215	0.6347	0.0017	-0.0008	-0.0002	0.0007	0.00073485
20	0.6284	0.63114	0.6348	0.0017778	0.6218	0.628	0.6349	0.0043006	-0.0068	-0.00314	0.0006	0.0030769
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

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

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

TID vs Post - Pre Exposure Delta

$R^2=0.146$

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

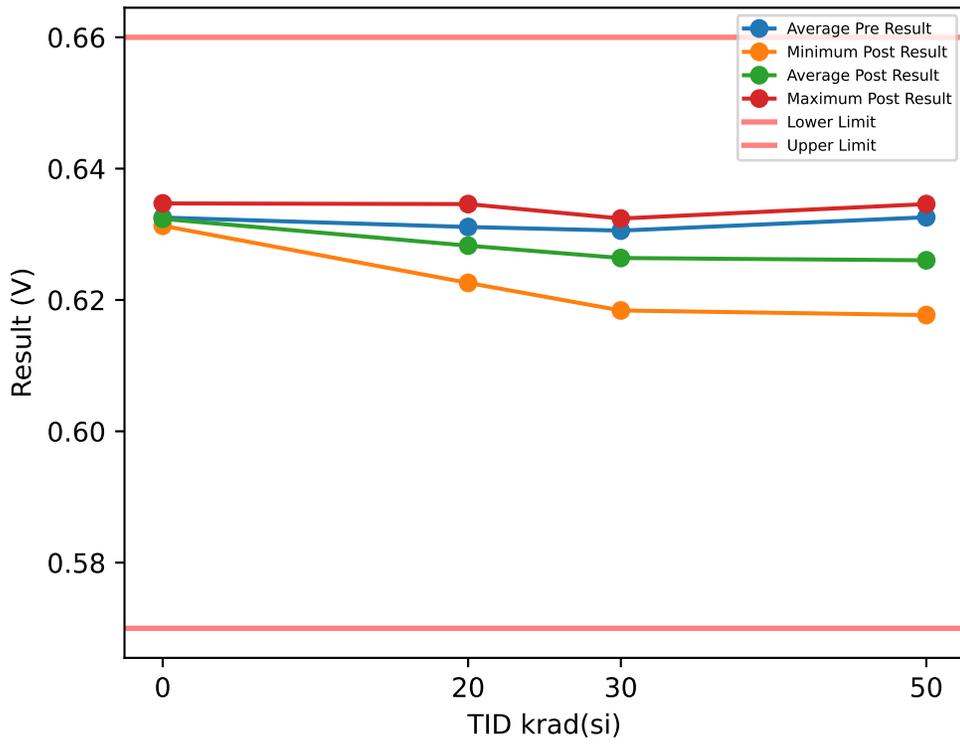| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5195	0.5133	-0.0062
22	20	HDR BIAS	0.5214	0.5153	-0.0061
23	20	HDR BIAS	0.5213	0.5176	-0.0037
24	20	HDR BIAS	0.5215	0.5146	-0.0069
25	20	HDR BIAS	0.5228	0.5173	-0.0055
26	20	HDR UNBIAS	0.5241	0.524	-0.0001
27	20	HDR UNBIAS	0.5215	0.5213	-0.0002
28	20	HDR UNBIAS	0.5251	0.5261	0.001
29	20	HDR UNBIAS	0.5227	0.5214	-0.0013
30	20	HDR UNBIAS	0.5223	0.5213	-0.001
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
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)
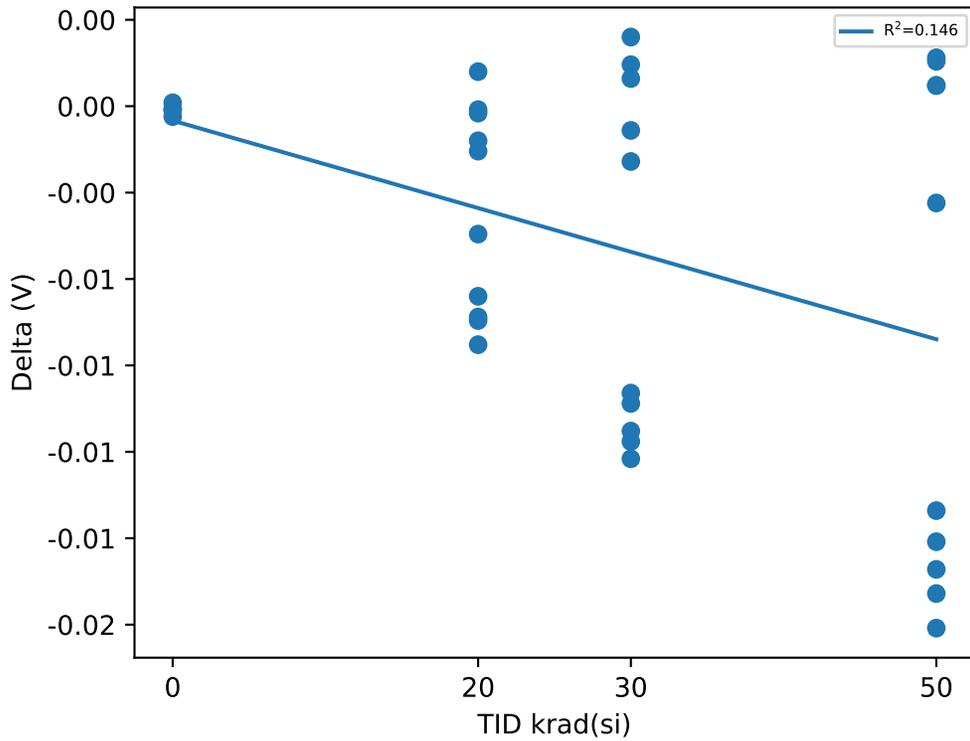
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5227	0.52353	0.5256	0.0013865	0.5226	0.52343	0.5255	0.0013865	-0.0003	-0.0001	0.0001	0.0001633
20	0.5195	0.52222	0.5251	0.0015761	0.5133	0.51922	0.5261	0.0042381	-0.0069	-0.003	0.001	0.0029989
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

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

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

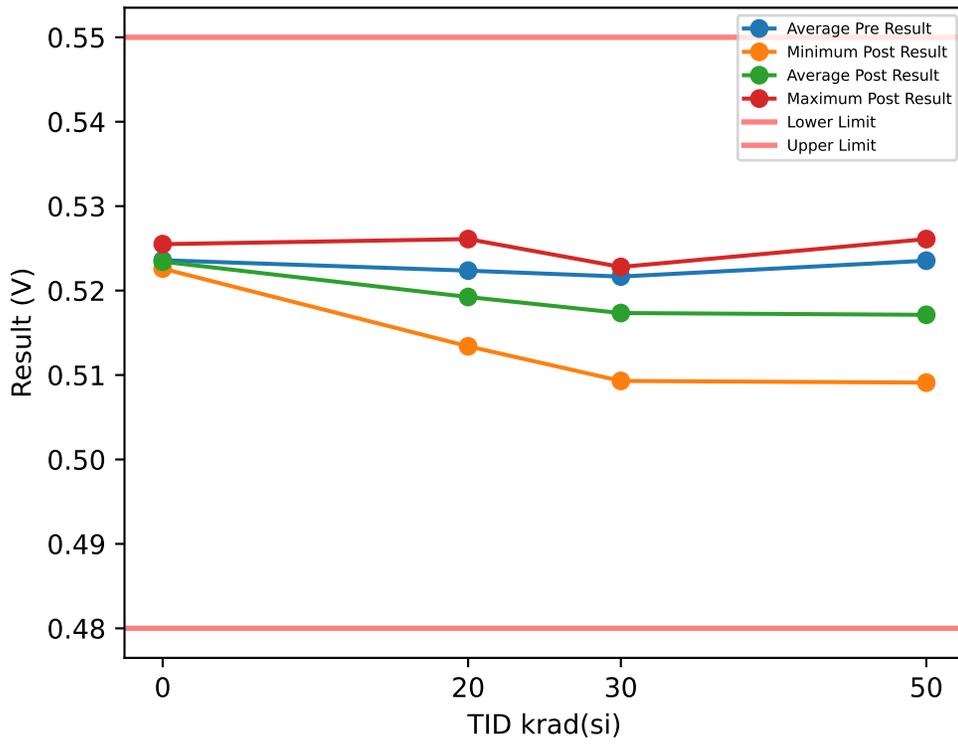| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6287	0.6226	-0.0061
22	20	HDR BIAS	0.6306	0.6252	-0.0054
23	20	HDR BIAS	0.6301	0.6261	-0.004
24	20	HDR BIAS	0.6301	0.6239	-0.0062
25	20	HDR BIAS	0.6323	0.6258	-0.0065
26	20	HDR UNBIAS	0.6327	0.6332	0.0005
27	20	HDR UNBIAS	0.6301	0.6305	0.0004
28	20	HDR UNBIAS	0.6339	0.6346	0.0007
29	20	HDR UNBIAS	0.6312	0.6301	-0.0011
30	20	HDR UNBIAS	0.6314	0.6307	-0.0007
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
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)
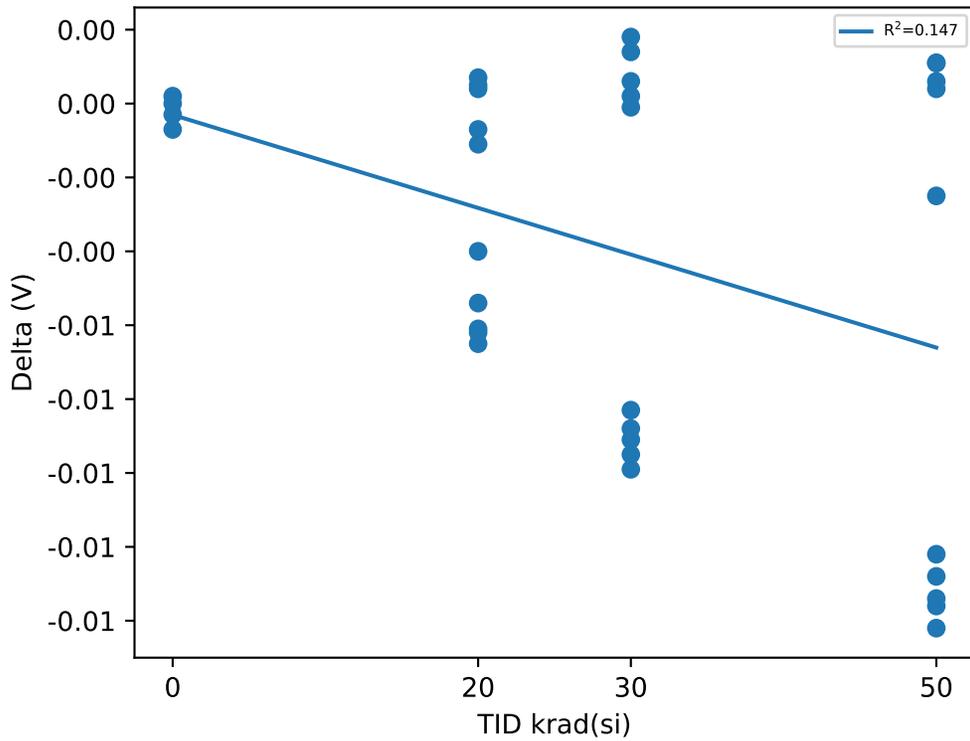
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6313	0.63255	0.6347	0.0014844	0.6313	0.63235	0.6347	0.0015864	-0.0007	-0.0002	0.0002	0.00039158
20	0.6287	0.63111	0.6339	0.0015257	0.6226	0.62827	0.6346	0.0040836	-0.0065	-0.00284	0.0007	0.0030733
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

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

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

TID vs Post - Pre Exposure Delta

$R^2 = 0.130$

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.5194	0.5134	-0.006
22	20	HDR BIAS	0.5216	0.5155	-0.0061
23	20	HDR BIAS	0.5219	0.5173	-0.0046
24	20	HDR BIAS	0.5215	0.5145	-0.007
25	20	HDR BIAS	0.5234	0.5174	-0.006
26	20	HDR UNBIAS	0.5241	0.5241	0
27	20	HDR UNBIAS	0.5215	0.5213	-0.0002
28	20	HDR UNBIAS	0.5254	0.5261	0.0007
29	20	HDR UNBIAS	0.5228	0.5214	-0.0014
30	20	HDR UNBIAS	0.522	0.5214	-0.0006
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
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)
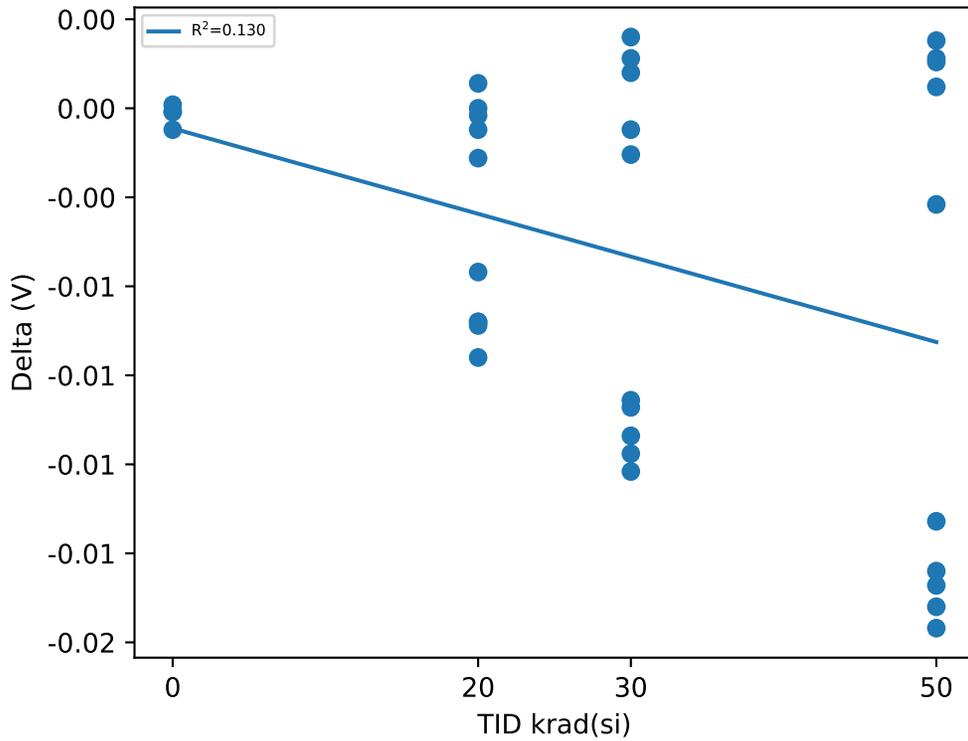
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5227	0.5236	0.5254	0.0012356	0.5226	0.52343	0.5255	0.0013865	-0.0006	-0.000175	0.0001	0.00029861
20	0.5194	0.52236	0.5254	0.0016568	0.5134	0.51924	0.5261	0.0042422	-0.007	-0.00312	0.0007	0.0030709
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
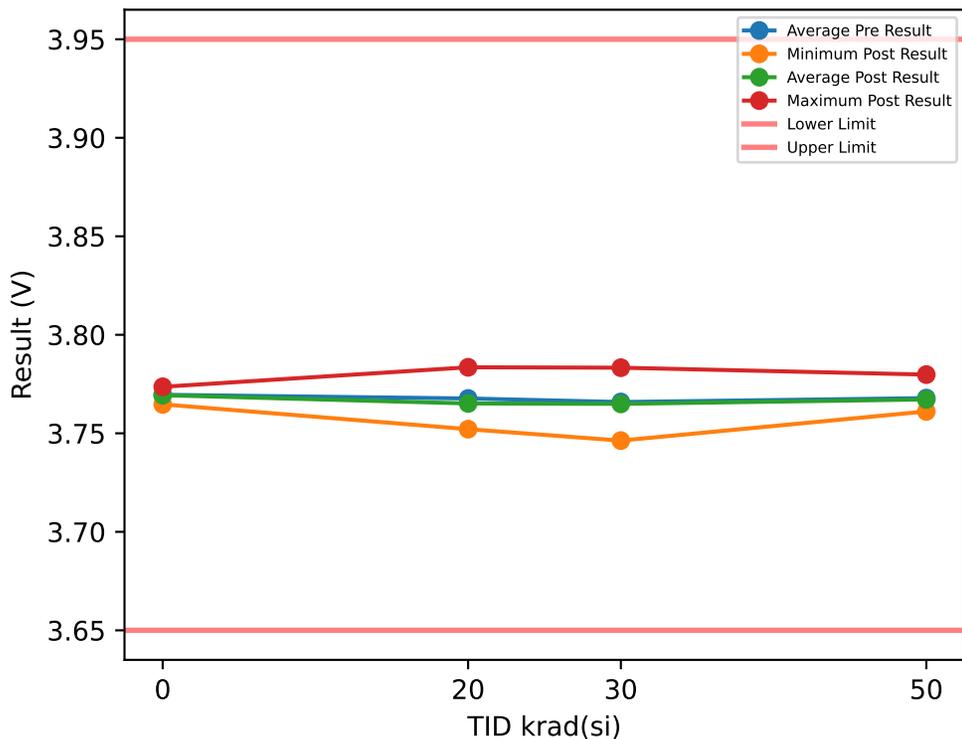
Device Test: 17.10 UVLO|VLDO_RISE/VLDO/4.5/4.5/0/1000/4.5/500kHz//@VLDO_UVLO_RISE

TID vs Result Stats

TID vs Post - Pre Exposure Delta


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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7556	3.7521	-0.0035
22	20	HDR BIAS	3.7688	3.7673	-0.0015
23	20	HDR BIAS	3.768	3.7646	-0.0034
24	20	HDR BIAS	3.778	3.766	-0.012
25	20	HDR BIAS	3.7682	3.7652	-0.003
26	20	HDR UNBIAS	3.7542	3.7679	0.0137
27	20	HDR UNBIAS	3.7762	3.7593	-0.0169
28	20	HDR UNBIAS	3.7845	3.7835	-0.001
29	20	HDR UNBIAS	3.7574	3.7586	0.0012
30	20	HDR UNBIAS	3.7659	3.767	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
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)
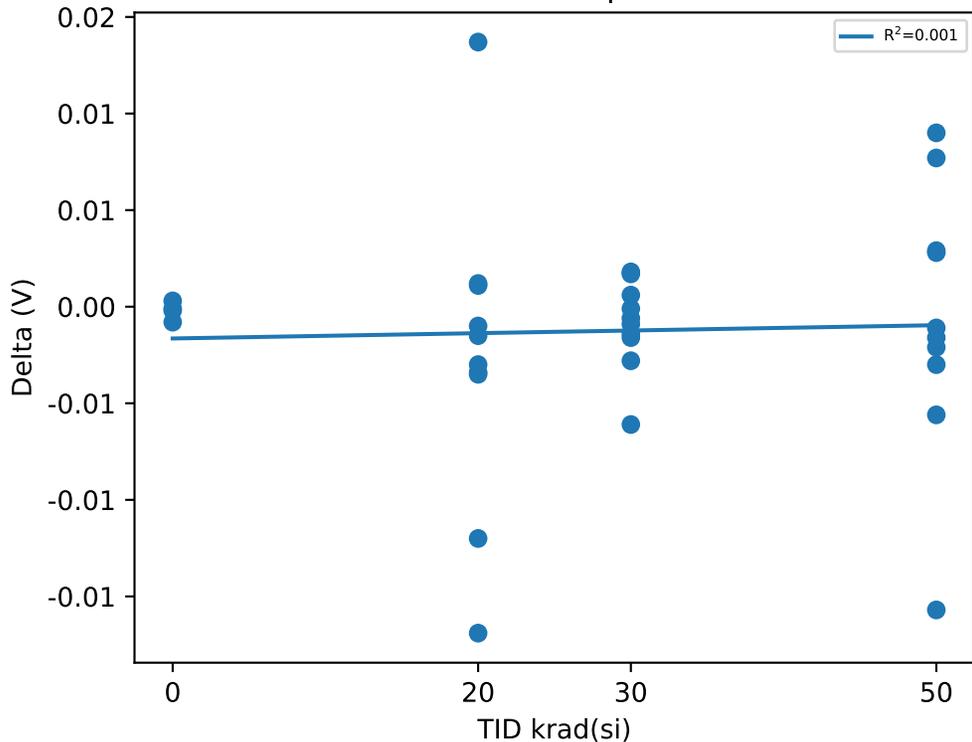
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.7655	3.7695	3.7737	0.0034886	3.7647	3.7694	3.7736	0.0037225	-0.0008	-0.0002	0.0003	0.00045461
20	3.7542	3.7677	3.7845	0.010001	3.7521	3.7651	3.7835	0.0081703	-0.0169	-0.00253	0.0137	0.0081104
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

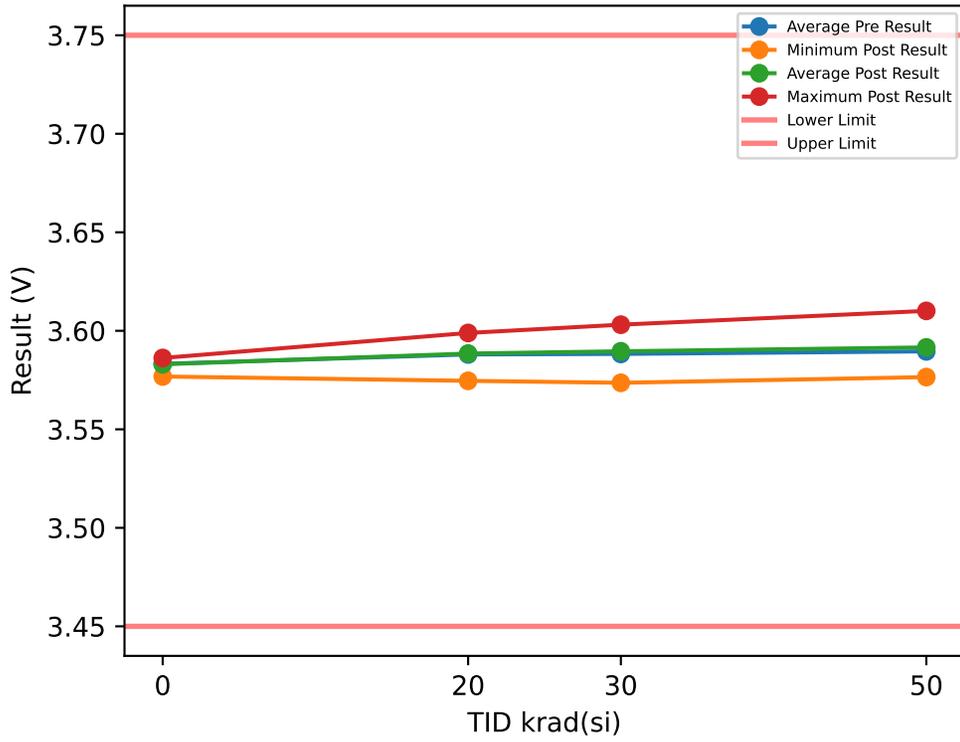| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5747	3.5746	-0.0001
22	20	HDR BIAS	3.5872	3.5853	-0.0019
23	20	HDR BIAS	3.5997	3.5986	-0.0011
24	20	HDR BIAS	3.5957	3.5952	-0.0005
25	20	HDR BIAS	3.5934	3.5952	0.0018
26	20	HDR UNBIAS	3.5797	3.5815	0.0018
27	20	HDR UNBIAS	3.5819	3.5854	0.0035
28	20	HDR UNBIAS	3.5981	3.5989	0.0008
29	20	HDR UNBIAS	3.5838	3.5858	0.002
30	20	HDR UNBIAS	3.5857	3.584	-0.0017
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
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)
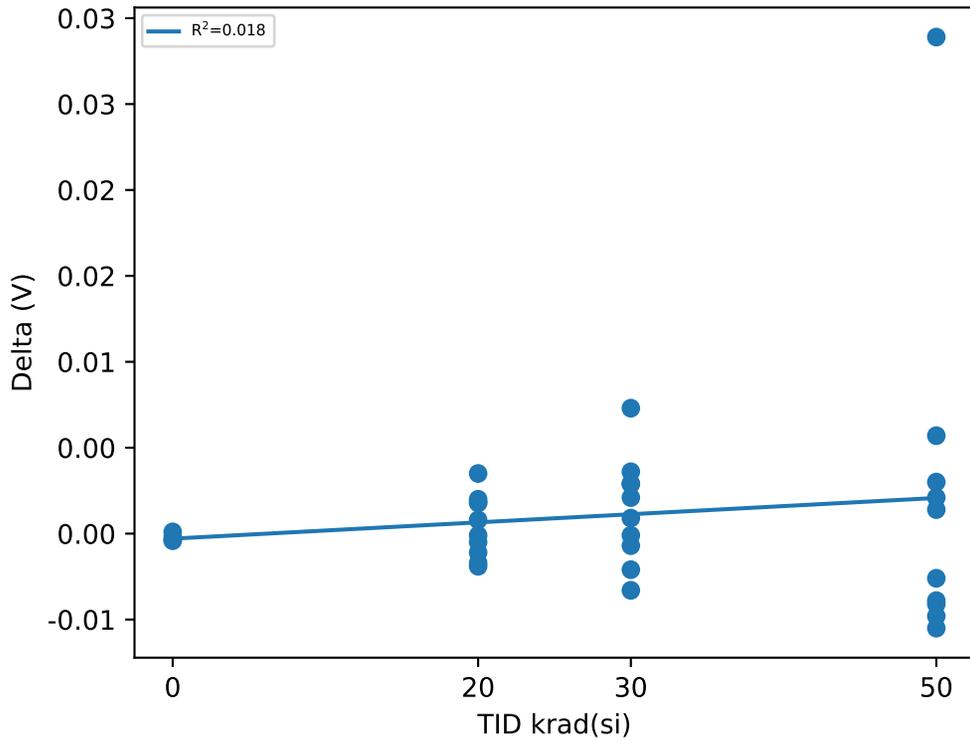
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5772	3.5832	3.5866	0.0042193	3.5768	3.583	3.5862	0.004274	-0.0004	-0.000225	0.0001	0.00023629
20	3.5747	3.588	3.5997	0.0083925	3.5746	3.5885	3.5989	0.0080934	-0.0019	0.00046	0.0035	0.001802
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

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

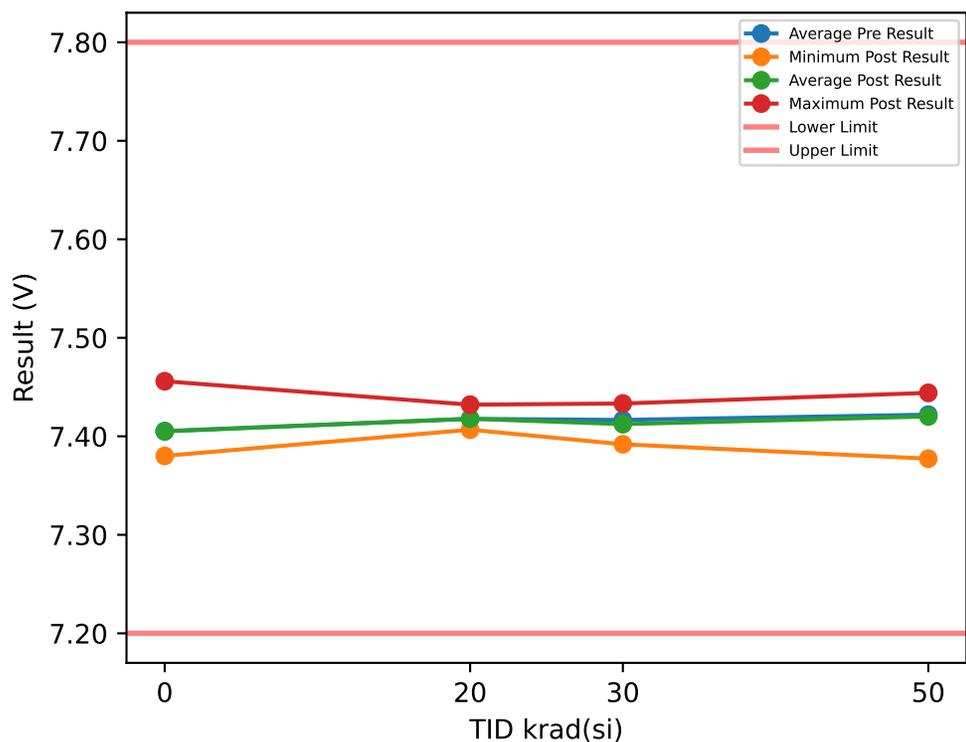| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.408	7.4067	-0.0013
22	20	HDR BIAS	7.416	7.416	0
23	20	HDR BIAS	7.4132	7.4067	-0.0065
24	20	HDR BIAS	7.4333	7.4321	-0.0012
25	20	HDR BIAS	7.4321	7.428	-0.0041
26	20	HDR UNBIAS	7.4039	7.4107	0.0068
27	20	HDR UNBIAS	7.416	7.416	0
28	20	HDR UNBIAS	7.4268	7.4305	0.0037
29	20	HDR UNBIAS	7.4172	7.4188	0.0016
30	20	HDR UNBIAS	7.4107	7.4132	0.0025
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
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)
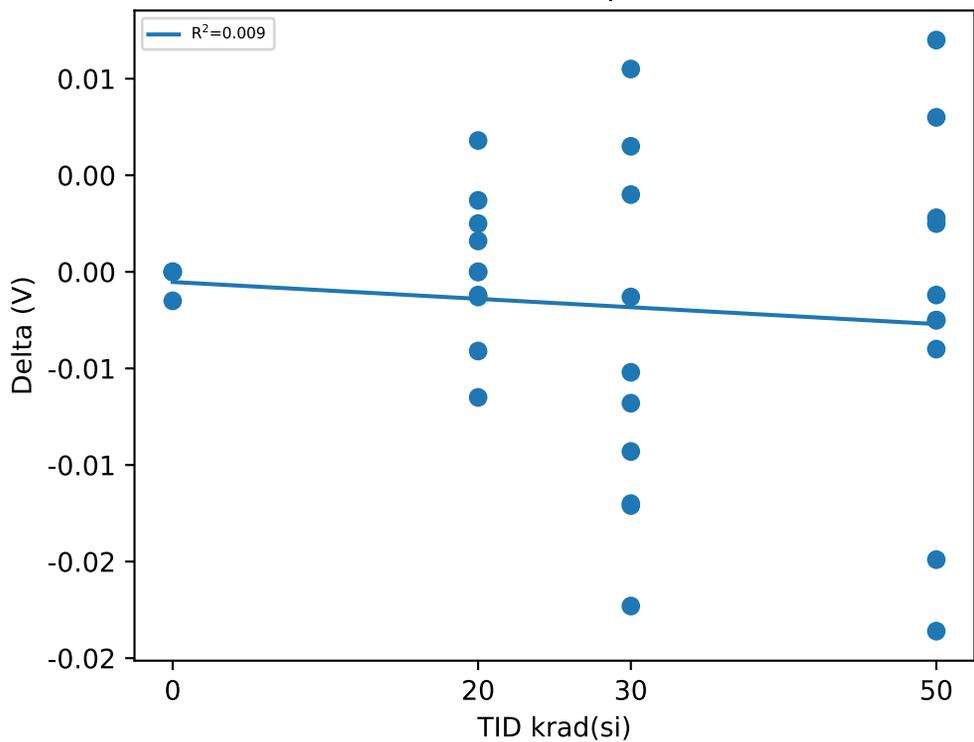
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3801	7.4053	7.4559	0.034451	7.3801	7.4049	7.4559	0.034574	-0.0015	-0.000375	0	0.00075
20	7.4039	7.4177	7.4333	0.0099629	7.4067	7.4179	7.4321	0.0094	-0.0065	0.00015	0.0068	0.0038109
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

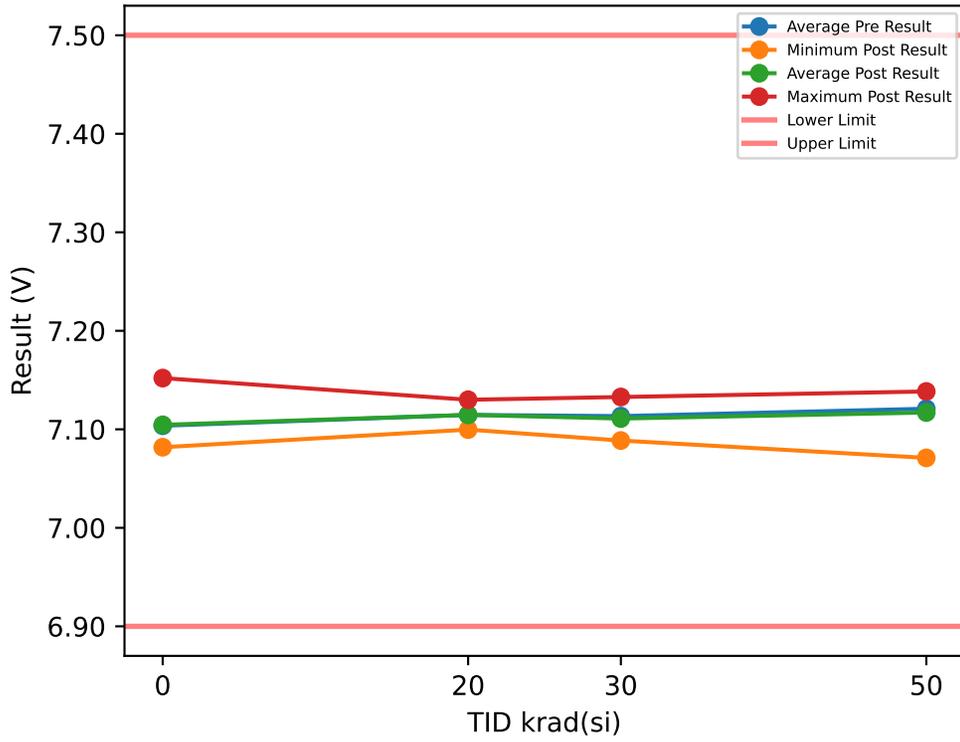| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.1053	7.1038	-0.0015
22	20	HDR BIAS	7.1161	7.1149	-0.0012
23	20	HDR BIAS	7.1109	7.0997	-0.0112
24	20	HDR BIAS	7.13	7.13	0
25	20	HDR BIAS	7.13	7.126	-0.004
26	20	HDR UNBIAS	7.0985	7.1053	0.0068
27	20	HDR UNBIAS	7.1121	7.1136	0.0015
28	20	HDR UNBIAS	7.1232	7.126	0.0028
29	20	HDR UNBIAS	7.1136	7.1161	0.0025
30	20	HDR UNBIAS	7.1065	7.1109	0.0044
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
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)
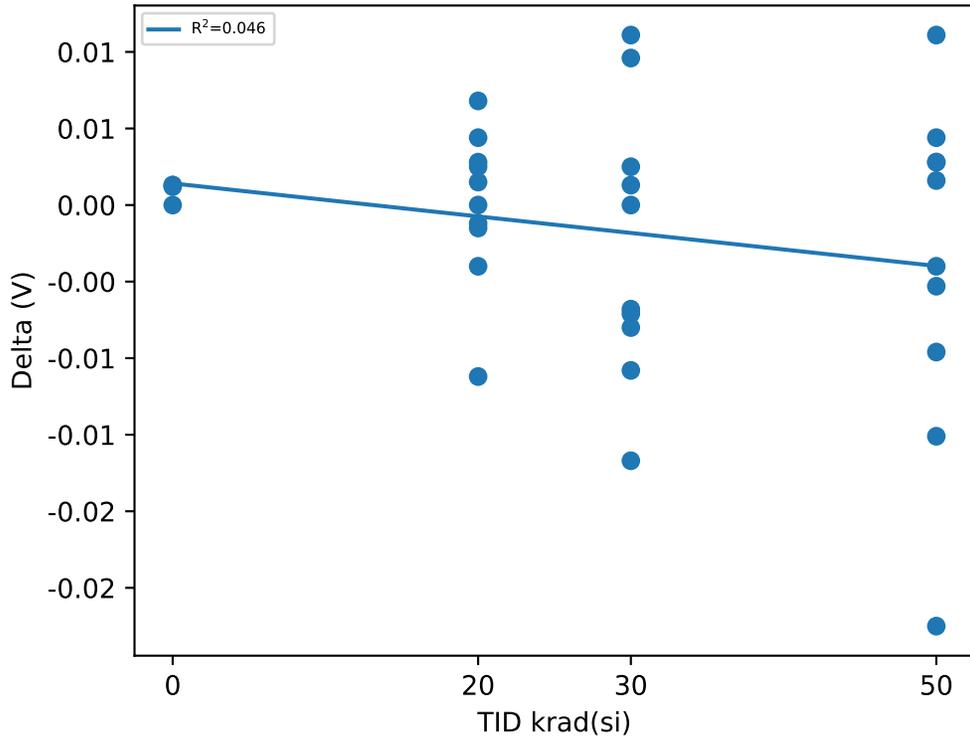
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0806	7.1036	7.1507	0.032001	7.0818	7.1045	7.152	0.03225	0	0.00095	0.0013	0.00063509
20	7.0985	7.1146	7.13	0.01045	7.0997	7.1146	7.13	0.010216	-0.0112	1e-05	0.0068	0.0050229
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

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

TID vs Result Stats

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

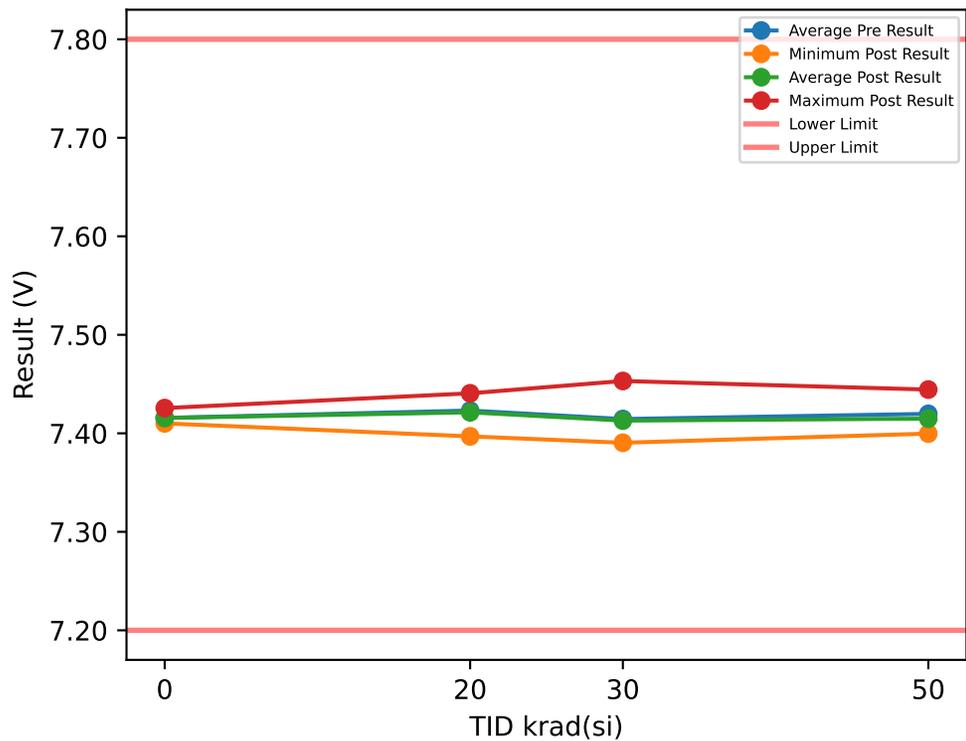| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.4036	7.4002	-0.0034
22	20	HDR BIAS	7.4259	7.426	0.0001
23	20	HDR BIAS	7.4397	7.4304	-0.0093
24	20	HDR BIAS	7.4061	7.3969	-0.0092
25	20	HDR BIAS	7.4315	7.4267	-0.0048
26	20	HDR UNBIAS	7.4213	7.4269	0.0056
27	20	HDR UNBIAS	7.4201	7.4245	0.0044
28	20	HDR UNBIAS	7.4315	7.4288	-0.0027
29	20	HDR UNBIAS	7.4103	7.4121	0.0018
30	20	HDR UNBIAS	7.441	7.4406	-0.0004
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
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

TID vs Post - Pre Exposure Delta
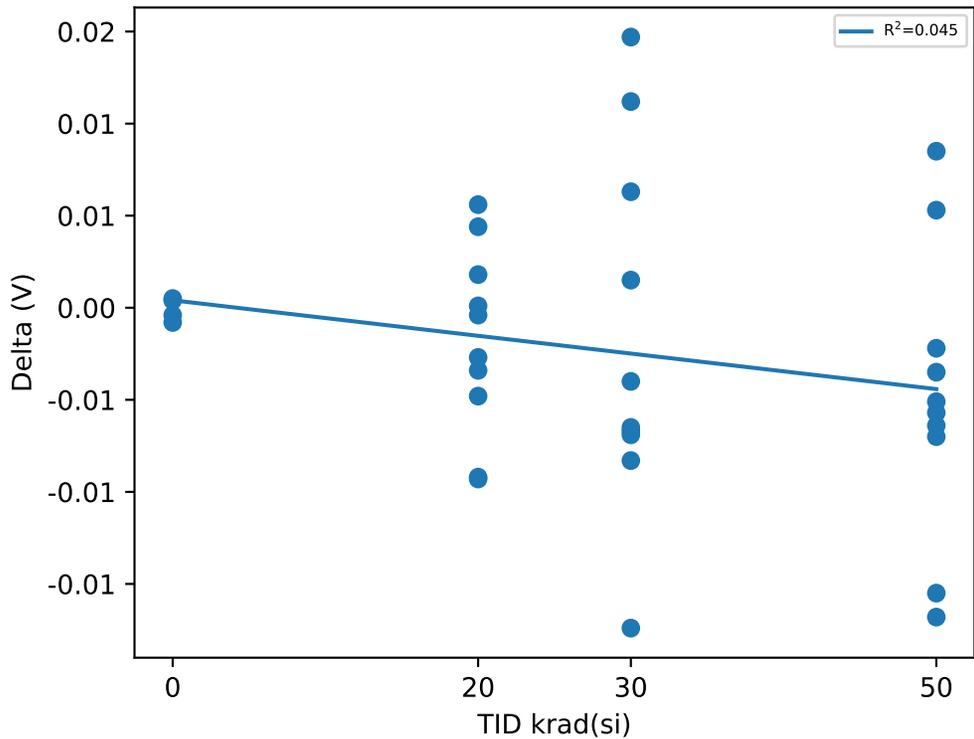
Test Statistics (V)

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	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
20	7.4036	7.4231	7.441	0.013293	7.3969	7.4213	7.4406	0.013863	-0.0093	-0.00179	0.0056	0.0051111
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

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

TID vs Result Stats

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

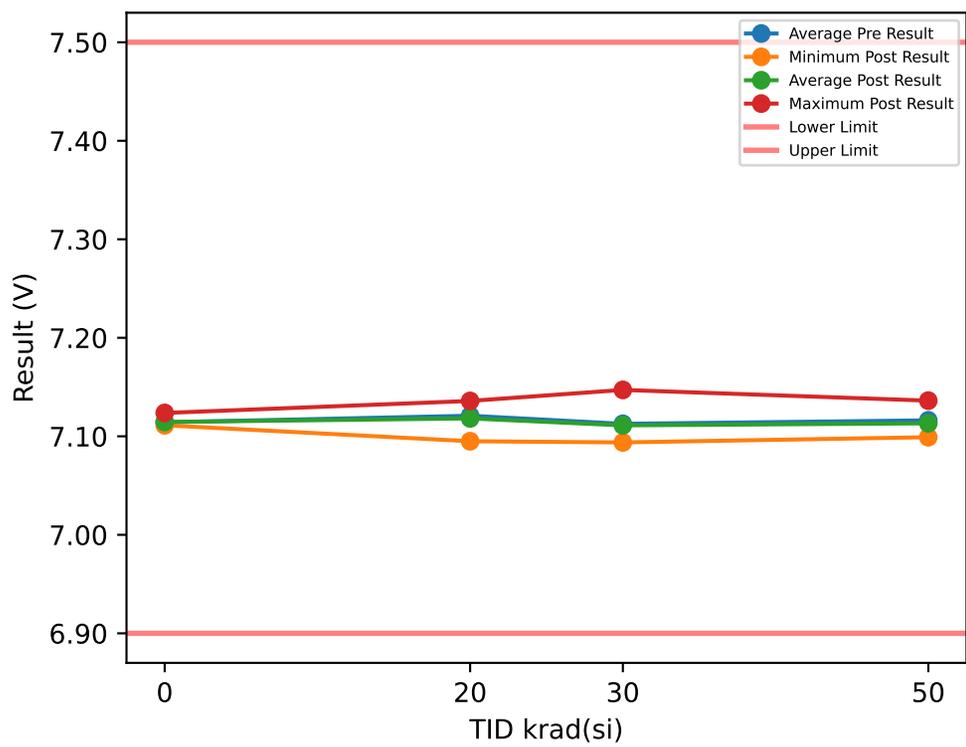| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.1076	7.1006	-0.007
22	20	HDR BIAS	7.115	7.1125	-0.0025
23	20	HDR BIAS	7.1324	7.1241	-0.0083
24	20	HDR BIAS	7.1051	7.095	-0.0101
25	20	HDR BIAS	7.1291	7.1284	-0.0007
26	20	HDR UNBIAS	7.1143	7.1197	0.0054
27	20	HDR UNBIAS	7.1185	7.125	0.0065
28	20	HDR UNBIAS	7.1291	7.1237	-0.0054
29	20	HDR UNBIAS	7.1143	7.1169	0.0026
30	20	HDR UNBIAS	7.1435	7.1359	-0.0076
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
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

TID vs Post - Pre Exposure Delta
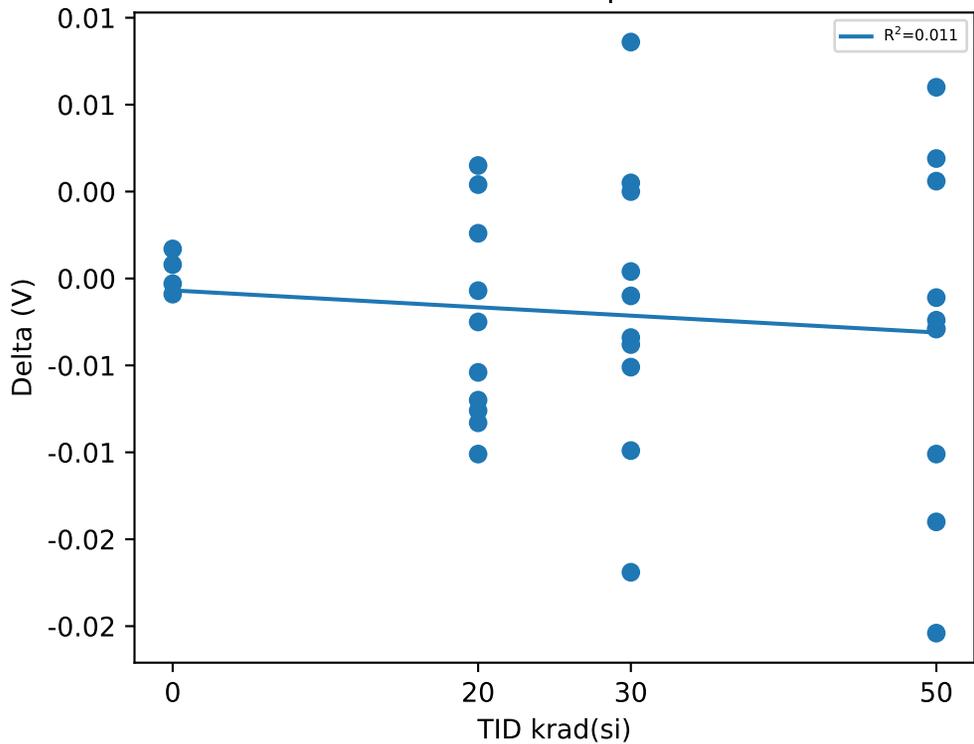
Test Statistics (V)

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	7.1099	7.1142	7.1229	0.005898	7.1112	7.1145	7.1237	0.0061196	-0.0009	0.000325	0.0017	0.0011558
20	7.1051	7.1209	7.1435	0.012164	7.095	7.1182	7.1359	0.01253	-0.0101	-0.00271	0.0065	0.0059469
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
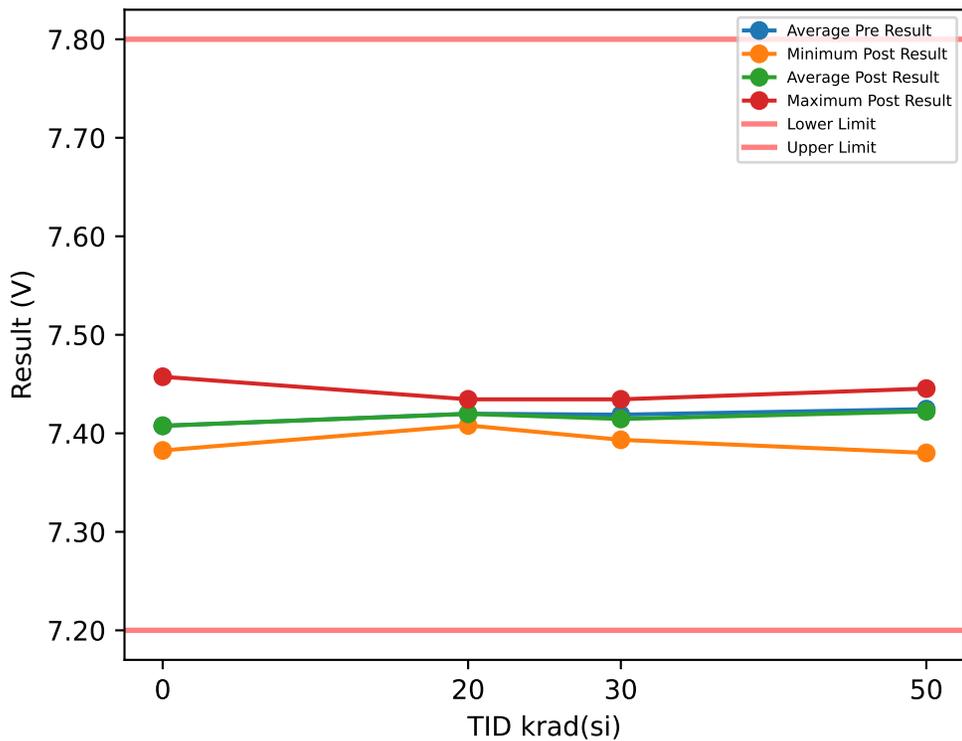
Device Test: 17.19 UVLO|PVIN_RISE/PVIN/4.5/4.5/0/1000/4.5/500kHz//@PVIN_UVLO_RISE_503X

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
21	20	HDR BIAS	7.4107	7.408	-0.0027
22	20	HDR BIAS	7.4172	7.4172	0
23	20	HDR BIAS	7.4148	7.408	-0.0068
24	20	HDR BIAS	7.4361	7.4345	-0.0016
25	20	HDR BIAS	7.4345	7.4293	-0.0052
26	20	HDR UNBIAS	7.4055	7.412	0.0065
27	20	HDR UNBIAS	7.4188	7.4188	0
28	20	HDR UNBIAS	7.428	7.4333	0.0053
29	20	HDR UNBIAS	7.42	7.4212	0.0012
30	20	HDR UNBIAS	7.4132	7.4148	0.0016
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
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)
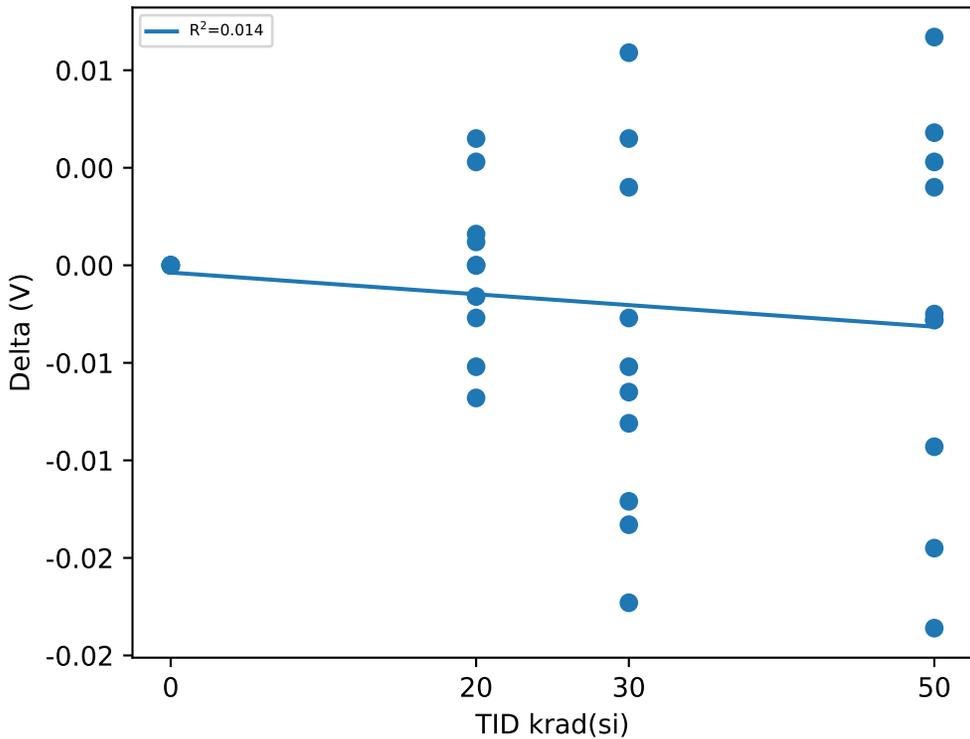
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.3826	7.4076	7.4574	0.033928	7.3826	7.4076	7.4574	0.033928	0	0	0	0
20	7.4055	7.4199	7.4361	0.01007	7.408	7.4197	7.4345	0.0097897	-0.0068	-0.00017	0.0065	0.0041791
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

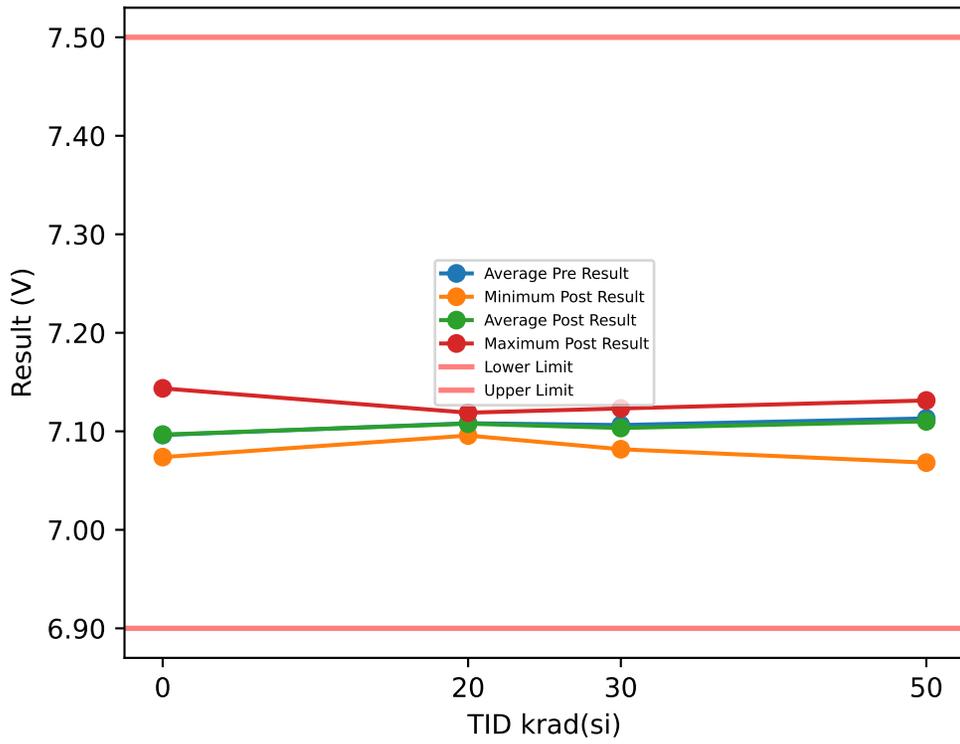| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.1013	7.0997	-0.0016
22	20	HDR BIAS	7.1121	7.1065	-0.0056
23	20	HDR BIAS	7.1025	7.0957	-0.0068
24	20	HDR BIAS	7.1232	7.1189	-0.0043
25	20	HDR BIAS	7.1204	7.1161	-0.0043
26	20	HDR UNBIAS	7.0929	7.1013	0.0084
27	20	HDR UNBIAS	7.1053	7.1053	0
28	20	HDR UNBIAS	7.1161	7.1189	0.0028
29	20	HDR UNBIAS	7.1081	7.1109	0.0028
30	20	HDR UNBIAS	7.0997	7.1038	0.0041
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
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)
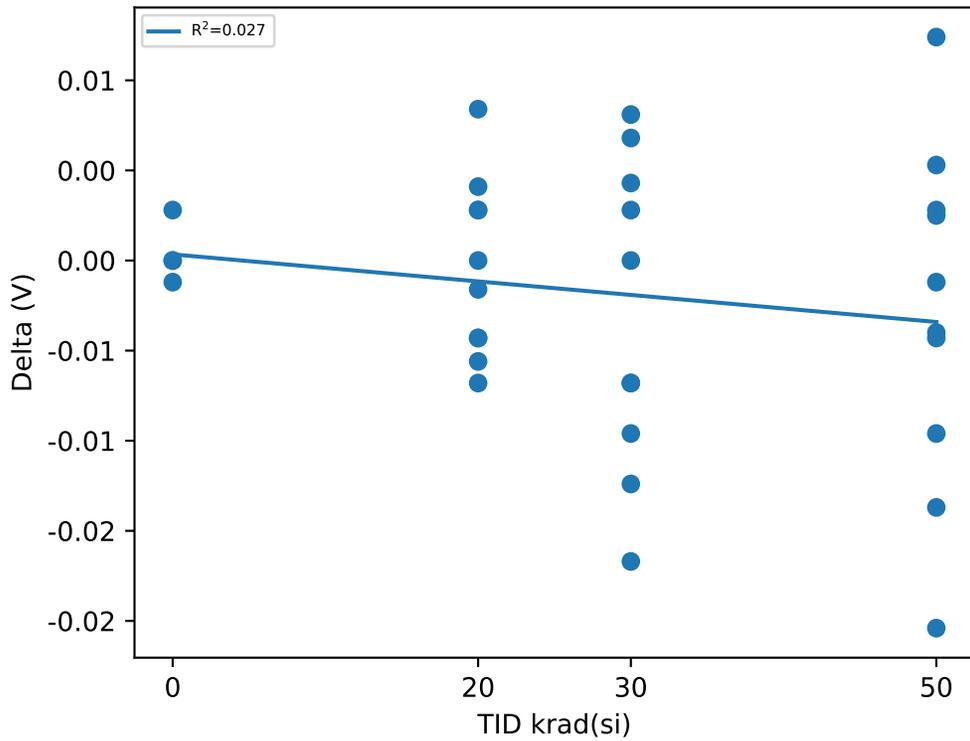
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.0738	7.0962	7.1436	0.032156	7.0738	7.0967	7.1436	0.031794	-0.0012	0.0004	0.0028	0.0016971
20	7.0929	7.1082	7.1232	0.0096971	7.0957	7.1077	7.1189	0.0081857	-0.0068	-0.00045	0.0084	0.0049235
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
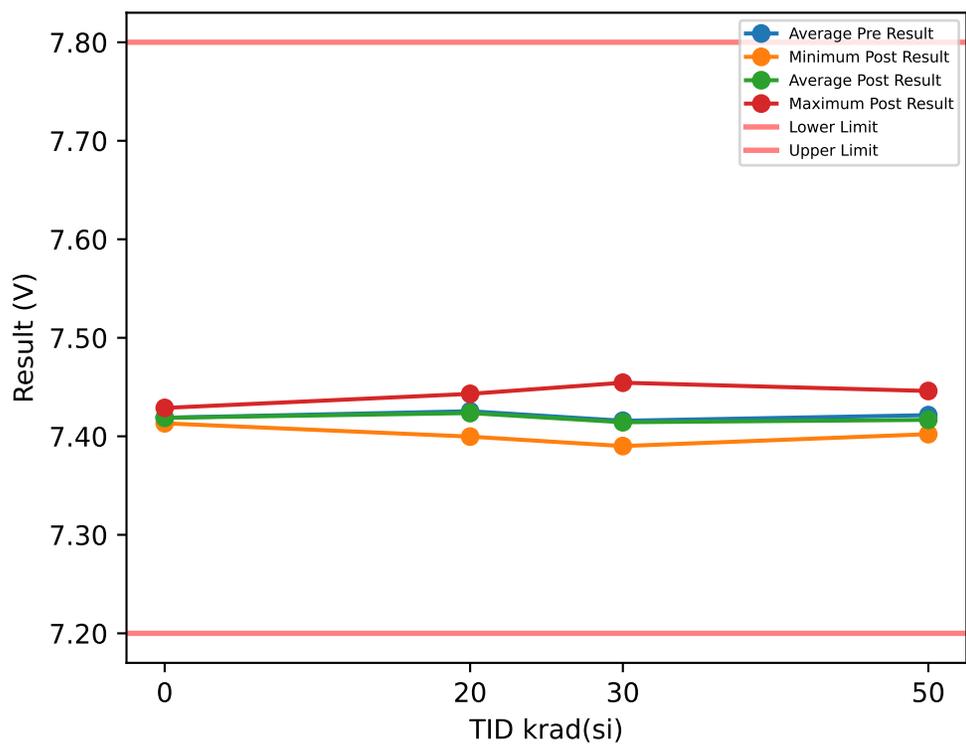
Device Test: 17.22 UVLO|VIN_RISE/VIN/4.5/4.5/0/1000/4.5/500kHz//@VIN_UVLO_RISE_503X

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
21	20	HDR BIAS	7.4048	7.4049	0.0001
22	20	HDR BIAS	7.429	7.4235	-0.0055
23	20	HDR BIAS	7.4431	7.4329	-0.0102
24	20	HDR BIAS	7.4085	7.3997	-0.0088
25	20	HDR BIAS	7.4343	7.4292	-0.0051
26	20	HDR UNBIAS	7.4238	7.4285	0.0047
27	20	HDR UNBIAS	7.4214	7.4276	0.0062
28	20	HDR UNBIAS	7.4359	7.4303	-0.0056
29	20	HDR UNBIAS	7.4113	7.4161	0.0048
30	20	HDR UNBIAS	7.4426	7.4431	0.0005
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
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)
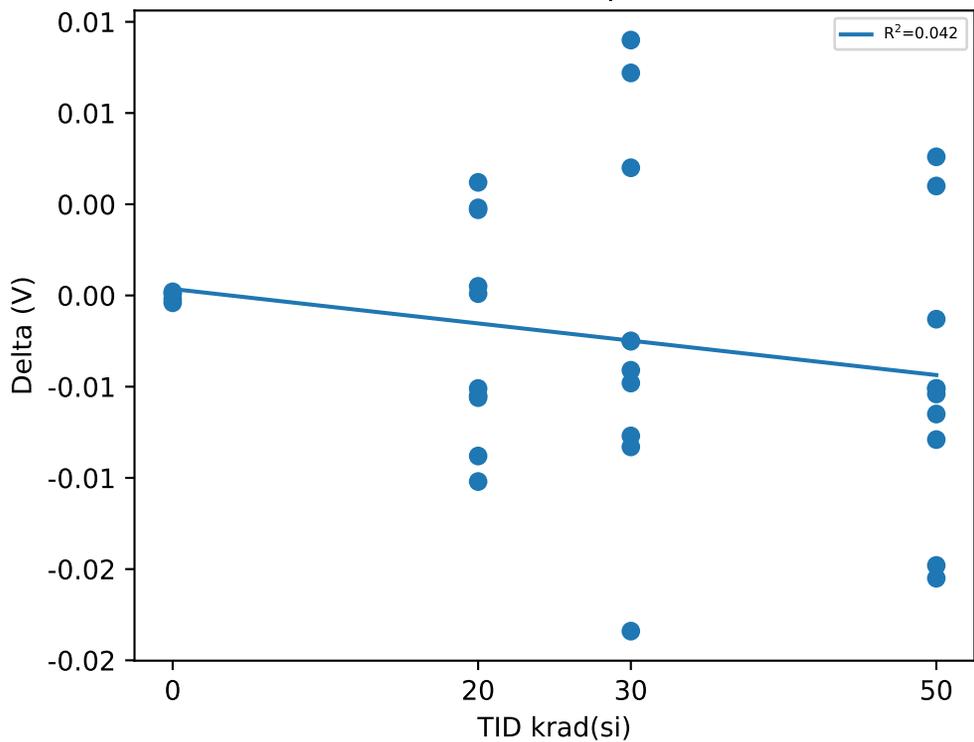
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.4131	7.4188	7.4292	0.0075412	7.4132	7.4188	7.4288	0.0073921	-0.0004	-7.5e-05	0.0002	0.00027538
20	7.4048	7.4255	7.4431	0.0139	7.3997	7.4236	7.4431	0.013166	-0.0102	-0.00189	0.0062	0.0059368
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
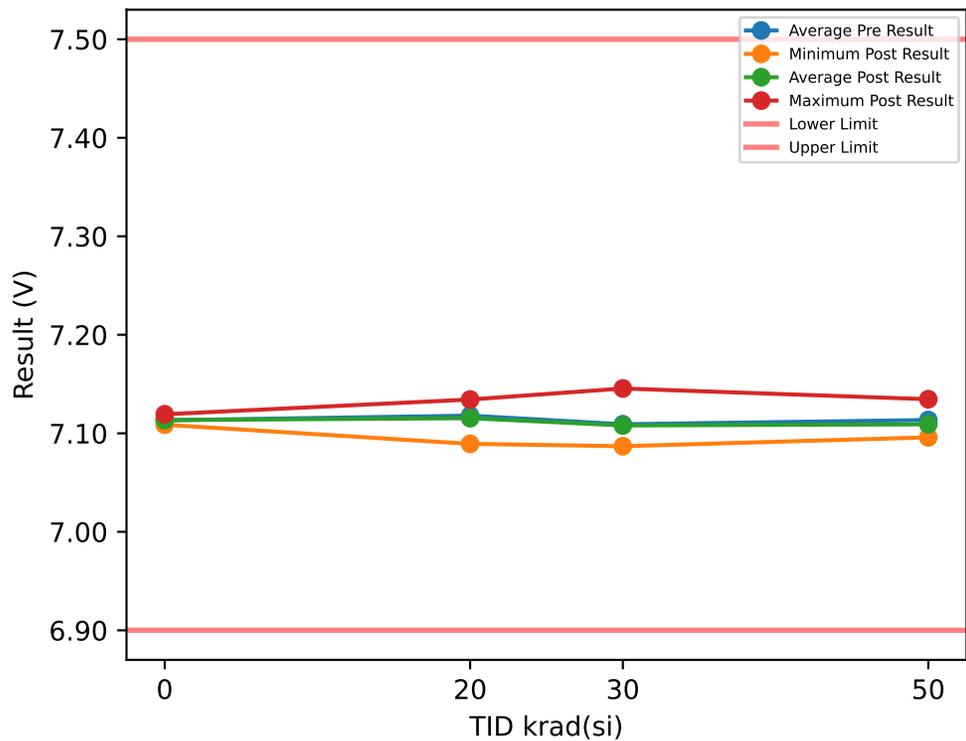
Device Test: 17.23 UVLO|VIN_FALL/VIN/4.5/4.5/0/1000/4.5/500kHz//@VIN_UVLO_FALL_503X

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.0998	7.0938	-0.006
22	20	HDR BIAS	7.1156	7.1128	-0.0028
23	20	HDR BIAS	7.1324	7.1234	-0.009
24	20	HDR BIAS	7.102	7.0893	-0.0127
25	20	HDR BIAS	7.1278	7.1241	-0.0037
26	20	HDR UNBIAS	7.114	7.1181	0.0041
27	20	HDR UNBIAS	7.116	7.1222	0.0062
28	20	HDR UNBIAS	7.1278	7.1237	-0.0041
29	20	HDR UNBIAS	7.1071	7.1119	0.0048
30	20	HDR UNBIAS	7.1369	7.1343	-0.0026
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
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)
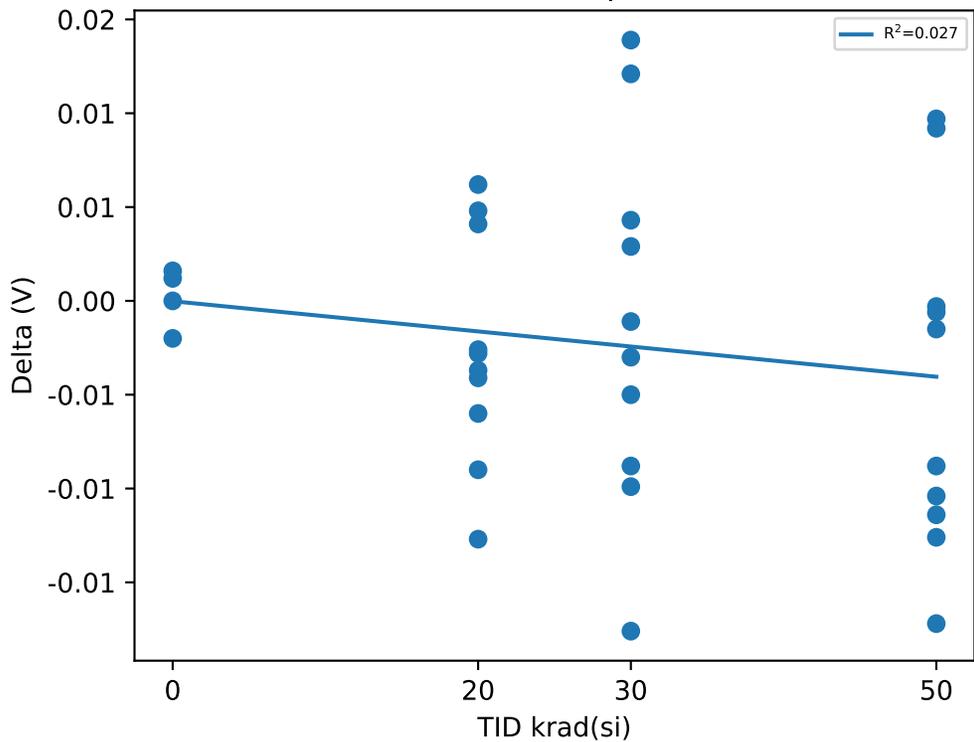
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	7.1087	7.1132	7.1213	0.0055486	7.1087	7.1134	7.1193	0.0043894	-0.002	0.0002	0.0016	0.0016166
20	7.0998	7.1179	7.1369	0.01286	7.0893	7.1154	7.1343	0.014087	-0.0127	-0.00258	0.0062	0.0061021
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

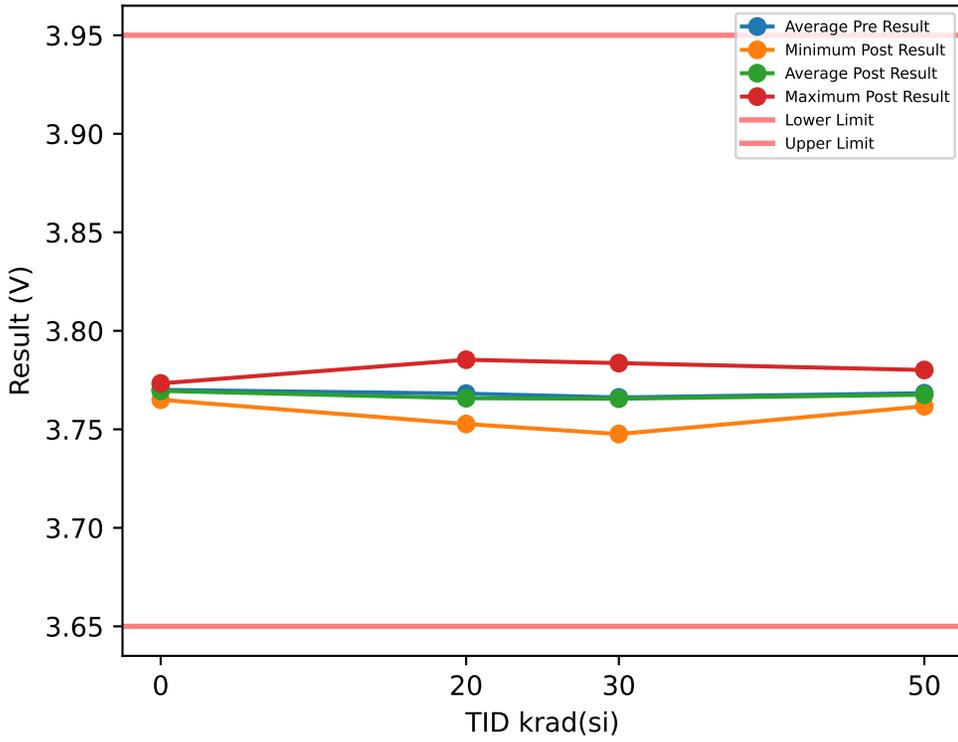| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.7565	3.7527	-0.0038
22	20	HDR BIAS	3.7701	3.7676	-0.0025
23	20	HDR BIAS	3.7689	3.7649	-0.004
24	20	HDR BIAS	3.7784	3.7669	-0.0115
25	20	HDR BIAS	3.7688	3.7664	-0.0024
26	20	HDR UNBIAS	3.7552	3.7676	0.0124
27	20	HDR UNBIAS	3.7762	3.7599	-0.0163
28	20	HDR UNBIAS	3.7841	3.7853	0.0012
29	20	HDR UNBIAS	3.7571	3.7589	0.0018
30	20	HDR UNBIAS	3.7659	3.7676	0.0017
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
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)
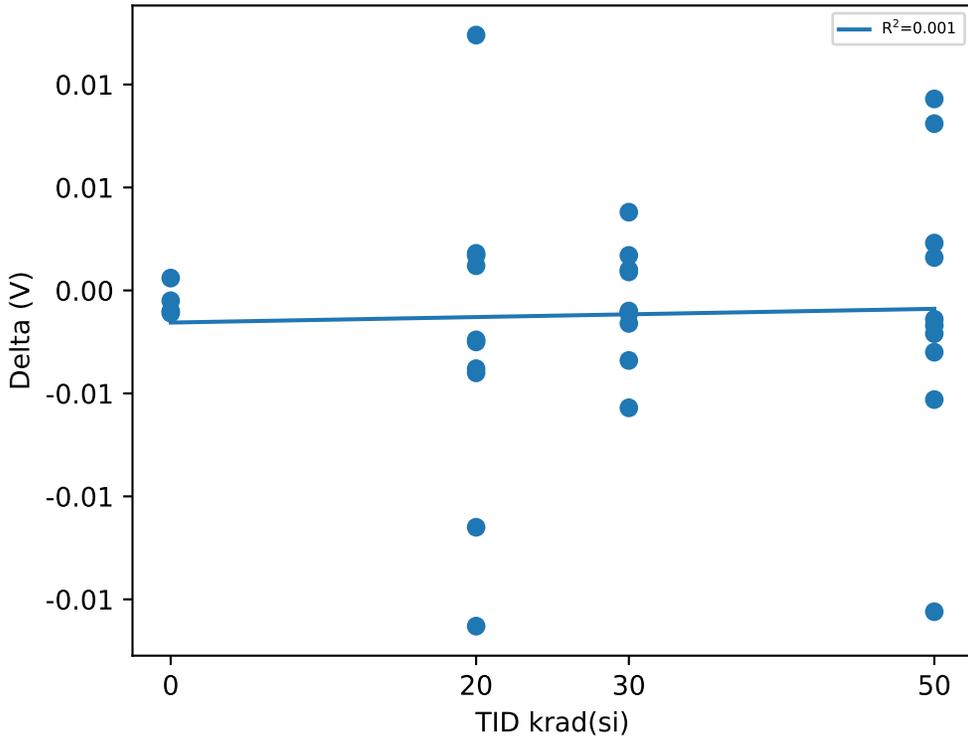
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.7661	3.77	3.7743	0.0036782	3.765	3.7695	3.7733	0.0035771	-0.0011	-0.0005	0.0006	0.00077889
20	3.7552	3.7681	3.7841	0.0097732	3.7527	3.7658	3.7853	0.0084746	-0.0163	-0.00234	0.0124	0.0077958
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

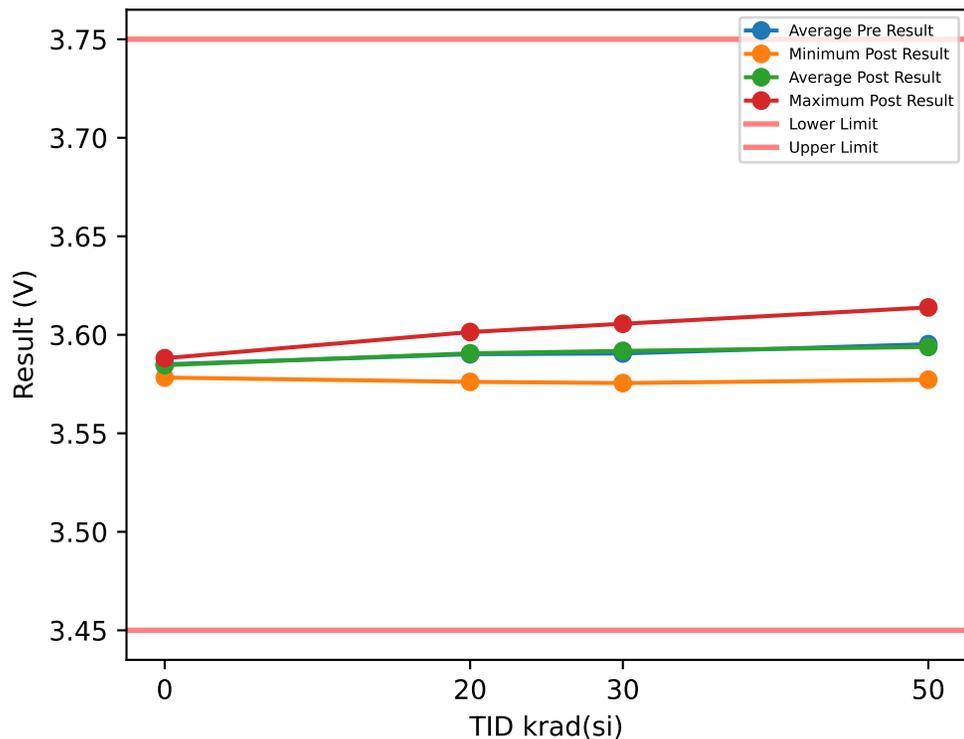| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	3.5754	3.5761	0.0007
22	20	HDR BIAS	3.5897	3.5884	-0.0013
23	20	HDR BIAS	3.6016	3.6007	-0.0009
24	20	HDR BIAS	3.5978	3.5977	-0.0001
25	20	HDR BIAS	3.5965	3.5983	0.0018
26	20	HDR UNBIAS	3.5813	3.5844	0.0031
27	20	HDR UNBIAS	3.5847	3.5867	0.002
28	20	HDR UNBIAS	3.6003	3.6014	0.0011
29	20	HDR UNBIAS	3.5856	3.5861	0.0005
30	20	HDR UNBIAS	3.5885	3.5862	-0.0023
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
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)
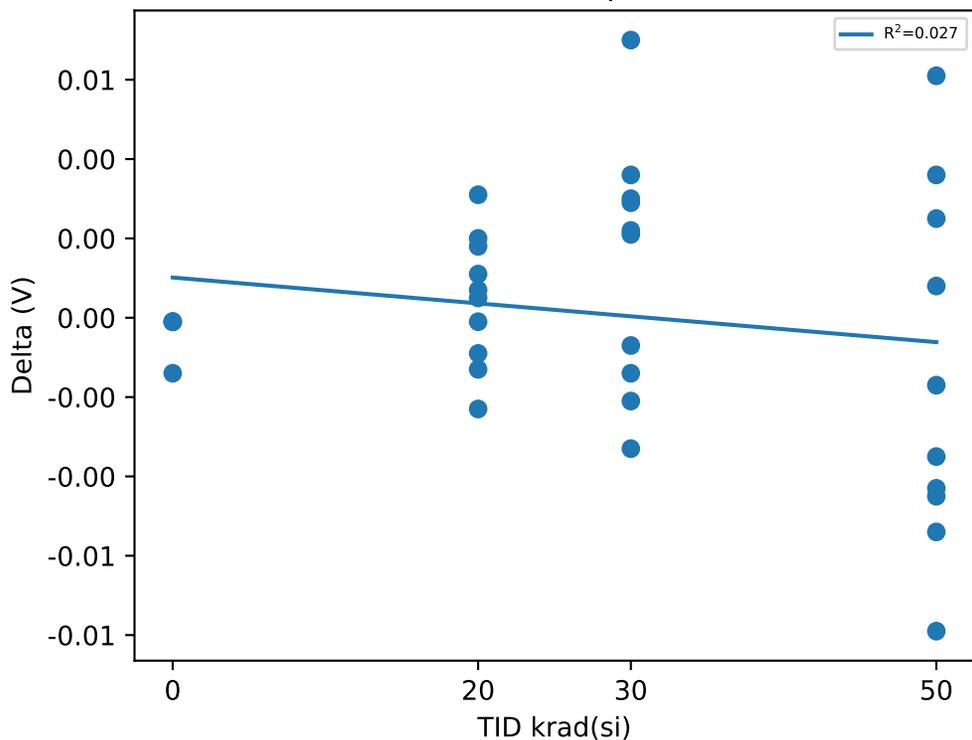
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5797	3.585	3.5882	0.0036941	3.5783	3.5846	3.5881	0.00432	-0.0014	-0.000425	-0.0001	0.00065
20	3.5754	3.5901	3.6016	0.0087062	3.5761	3.5906	3.6014	0.008411	-0.0023	0.00046	0.0031	0.0016494
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

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))

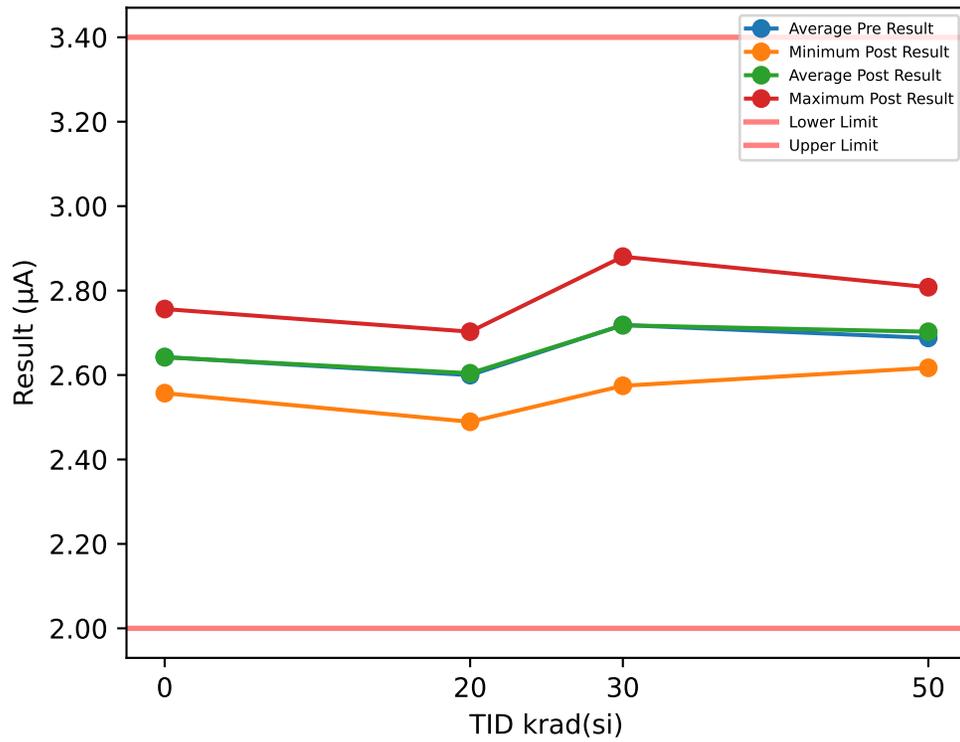| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.6001	2.5894	-0.0107
22	20	HDR BIAS	2.5227	2.5679	0.0452
23	20	HDR BIAS	2.5439	2.5386	-0.0053
24	20	HDR BIAS	2.6319	2.6666	0.0347
25	20	HDR BIAS	2.6651	2.7026	0.0375
26	20	HDR UNBIAS	2.6459	2.6376	-0.0083
27	20	HDR UNBIAS	2.5099	2.4892	-0.0207
28	20	HDR UNBIAS	2.5737	2.5578	-0.0159
29	20	HDR UNBIAS	2.7179	2.6967	-0.0212
30	20	HDR UNBIAS	2.5856	2.5954	0.0098
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
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)
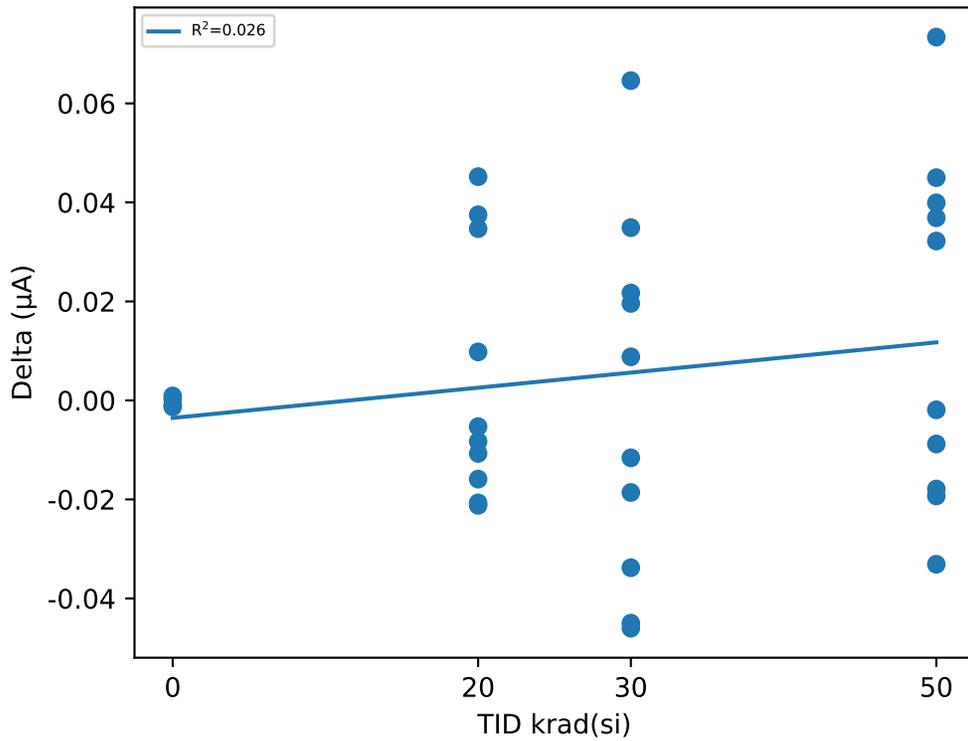
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5561	2.6424	2.7561	0.0997	2.557	2.6421	2.7563	0.099694	-0.0013	-0.0003	0.0009	0.0010296
20	2.5099	2.5997	2.7179	0.066166	2.4892	2.6042	2.7026	0.070351	-0.0212	0.00451	0.0452	0.025578
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

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))

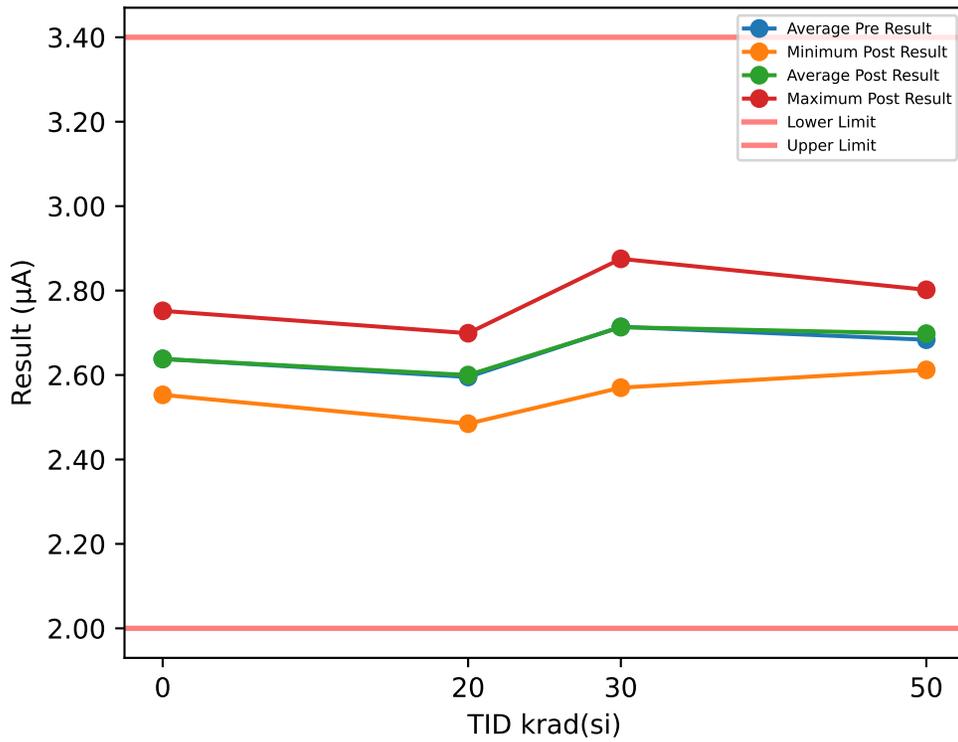| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.5957	2.5845	-0.0112
22	20	HDR BIAS	2.5179	2.5642	0.0463
23	20	HDR BIAS	2.5404	2.5341	-0.0063
24	20	HDR BIAS	2.6269	2.6623	0.0354
25	20	HDR BIAS	2.6611	2.699	0.0379
26	20	HDR UNBIAS	2.6417	2.6329	-0.0088
27	20	HDR UNBIAS	2.5059	2.4847	-0.0212
28	20	HDR UNBIAS	2.5689	2.5533	-0.0156
29	20	HDR UNBIAS	2.7137	2.6933	-0.0204
30	20	HDR UNBIAS	2.5812	2.5912	0.01
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
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)
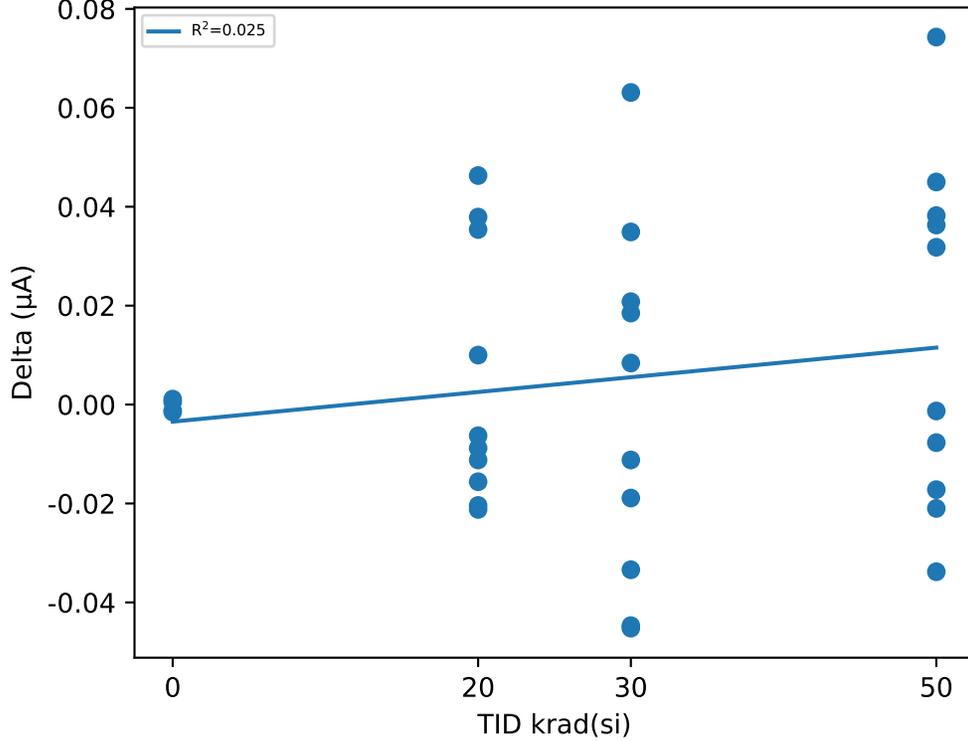
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5519	2.6382	2.7515	0.099602	2.553	2.6379	2.752	0.099536	-0.0015	-0.000275	0.0011	0.0012712
20	2.5059	2.5953	2.7137	0.066159	2.4847	2.6	2.699	0.070622	-0.0212	0.00461	0.0463	0.025975
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

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

TID vs Result Stats

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

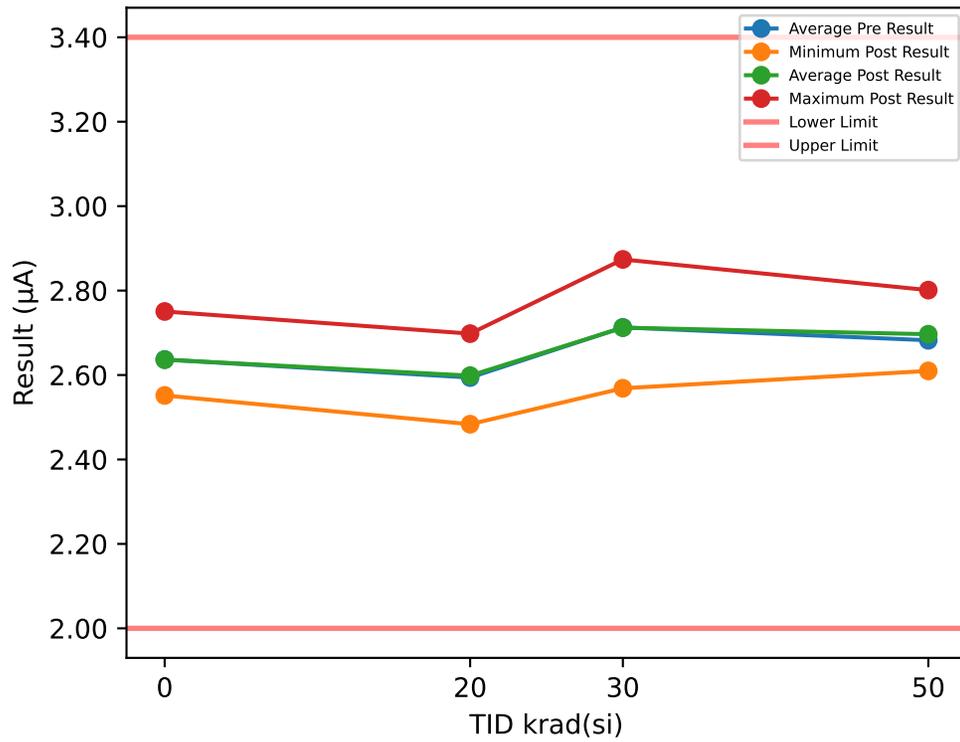| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.5945	2.5833	-0.0112
22	20	HDR BIAS	2.5165	2.5613	0.0448
23	20	HDR BIAS	2.5389	2.5325	-0.0064
24	20	HDR BIAS	2.626	2.6609	0.0349
25	20	HDR BIAS	2.659	2.698	0.039
26	20	HDR UNBIAS	2.6406	2.6319	-0.0087
27	20	HDR UNBIAS	2.5045	2.4835	-0.021
28	20	HDR UNBIAS	2.5677	2.5526	-0.0151
29	20	HDR UNBIAS	2.713	2.6917	-0.0213
30	20	HDR UNBIAS	2.5795	2.5895	0.01
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
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

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	2.5504	2.6367	2.75	0.099557	2.5516	2.6364	2.7505	0.099382	-0.0018	-0.0003	0.0012	0.001388
20	2.5045	2.594	2.713	0.066279	2.4835	2.5985	2.698	0.070695	-0.0213	0.0045	0.0448	0.025838
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

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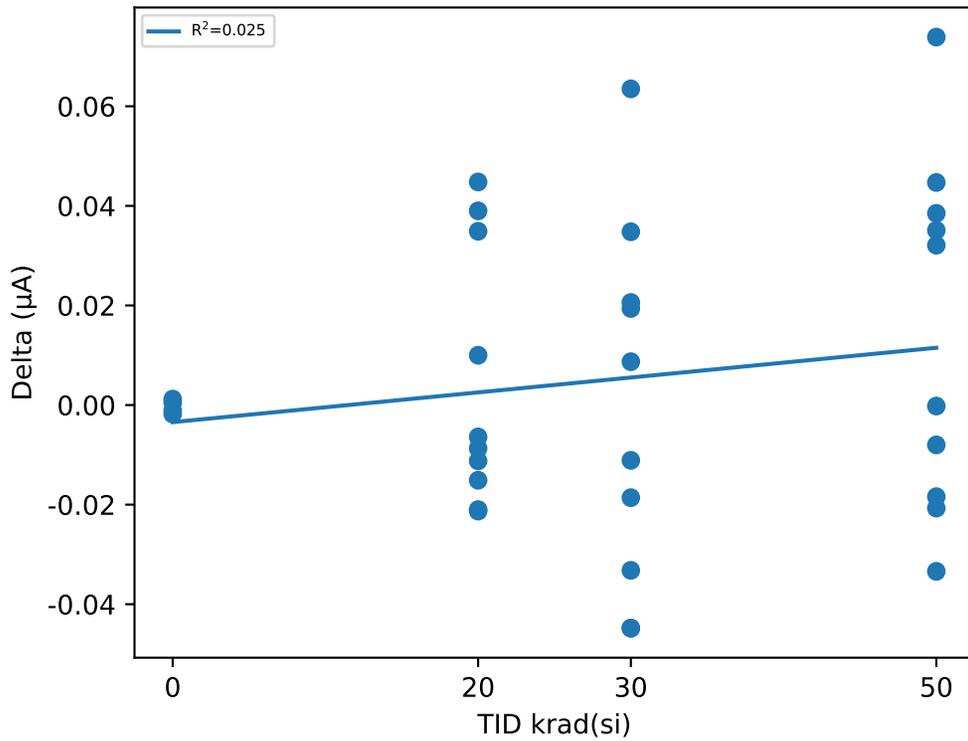
TID vs Result Stats

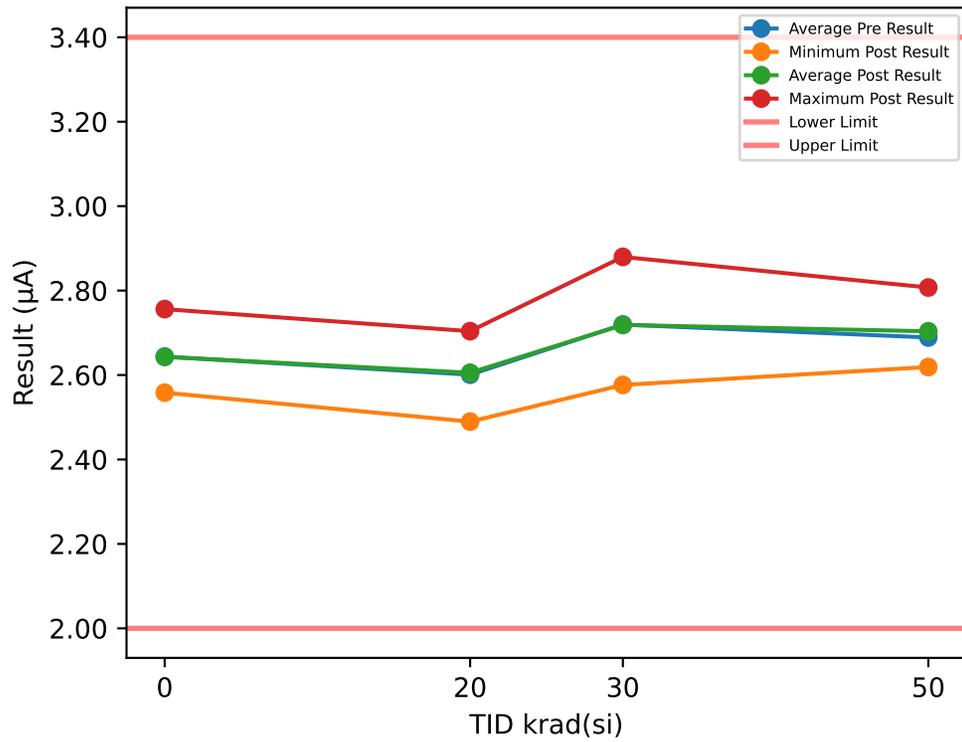## Test Results (Lower Limit = 2.0, Upper Limit = 3.4 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.6012	2.5904	-0.0108
22	20	HDR BIAS	2.5242	2.5697	0.0455
23	20	HDR BIAS	2.5451	2.5393	-0.0058
24	20	HDR BIAS	2.6328	2.6682	0.0354
25	20	HDR BIAS	2.6661	2.7038	0.0377
26	20	HDR UNBIAS	2.6467	2.6388	-0.0079
27	20	HDR UNBIAS	2.5114	2.4896	-0.0218
28	20	HDR UNBIAS	2.5749	2.5594	-0.0155
29	20	HDR UNBIAS	2.7191	2.6983	-0.0208
30	20	HDR UNBIAS	2.5866	2.5961	0.0095
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
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
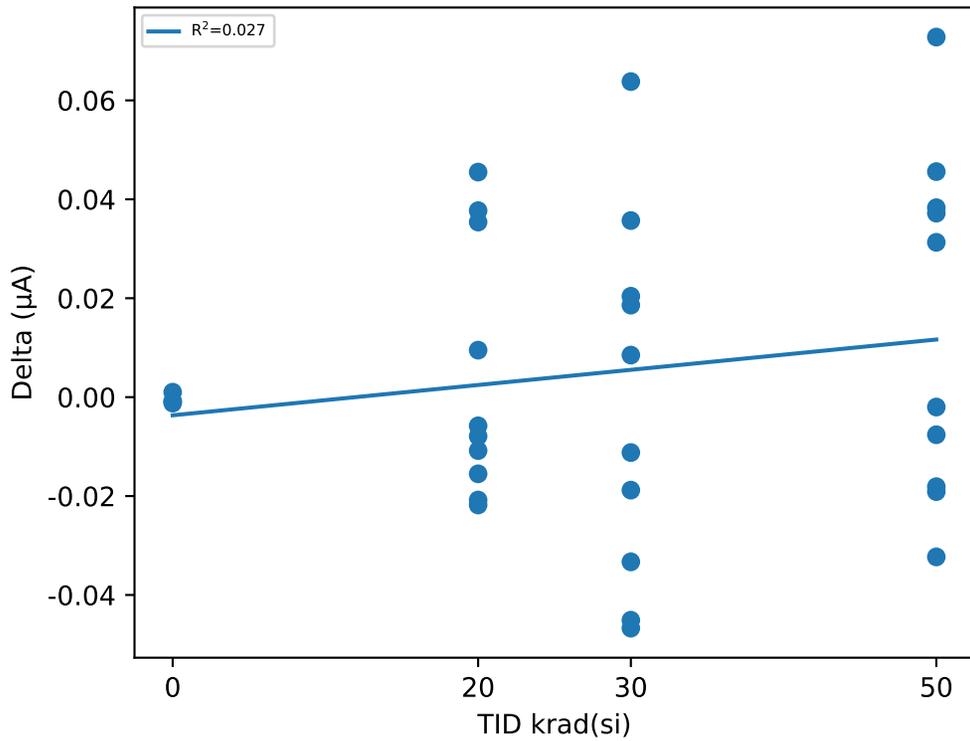
Test Statistics (µA)

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
20	2.5114	2.6008	2.7191	0.066018	2.4896	2.6054	2.7038	0.070595	-0.0218	0.00455	0.0455	0.025796
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

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

TID vs Result Stats

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

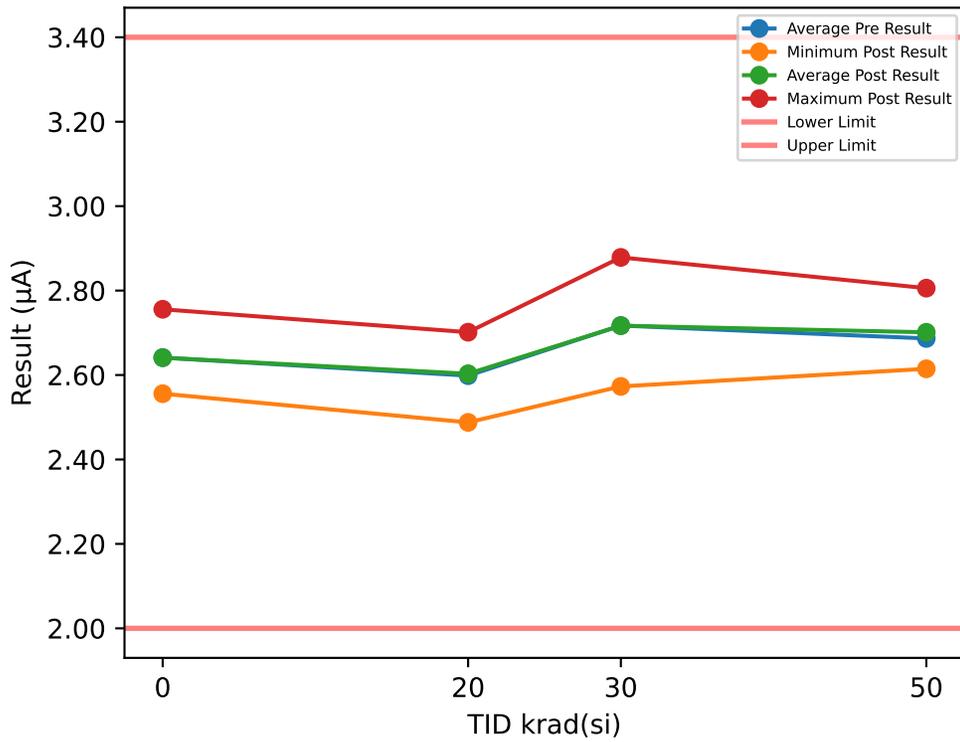| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.5989	2.5881	-0.0108
22	20	HDR BIAS	2.5215	2.5664	0.0449
23	20	HDR BIAS	2.543	2.5366	-0.0064
24	20	HDR BIAS	2.6306	2.6657	0.0351
25	20	HDR BIAS	2.6641	2.7014	0.0373
26	20	HDR UNBIAS	2.6449	2.6365	-0.0084
27	20	HDR UNBIAS	2.5086	2.4878	-0.0208
28	20	HDR UNBIAS	2.5722	2.5562	-0.016
29	20	HDR UNBIAS	2.7172	2.6965	-0.0207
30	20	HDR UNBIAS	2.5843	2.5944	0.0101
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
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

TID vs Post - Pre Exposure Delta
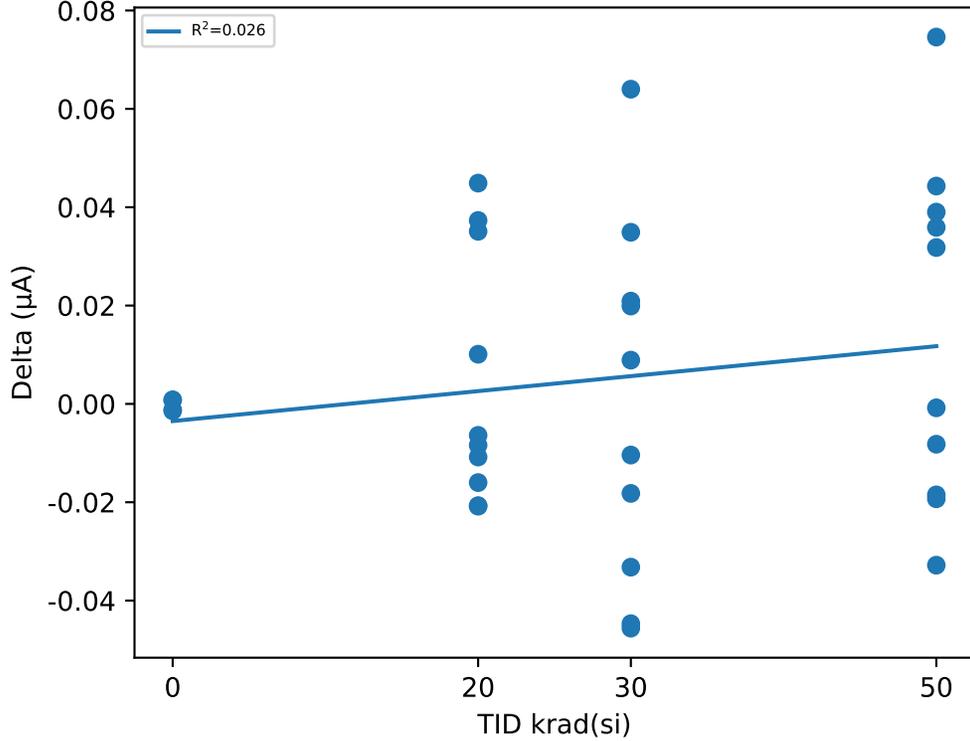
Test Statistics (µA)

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	2.555	2.6413	2.7549	0.099689	2.5558	2.641	2.7557	0.099843	-0.0014	-0.00025	0.0008	0.0012152
20	2.5086	2.5985	2.7172	0.0663	2.4878	2.603	2.7014	0.070698	-0.0208	0.00443	0.0449	0.025583
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
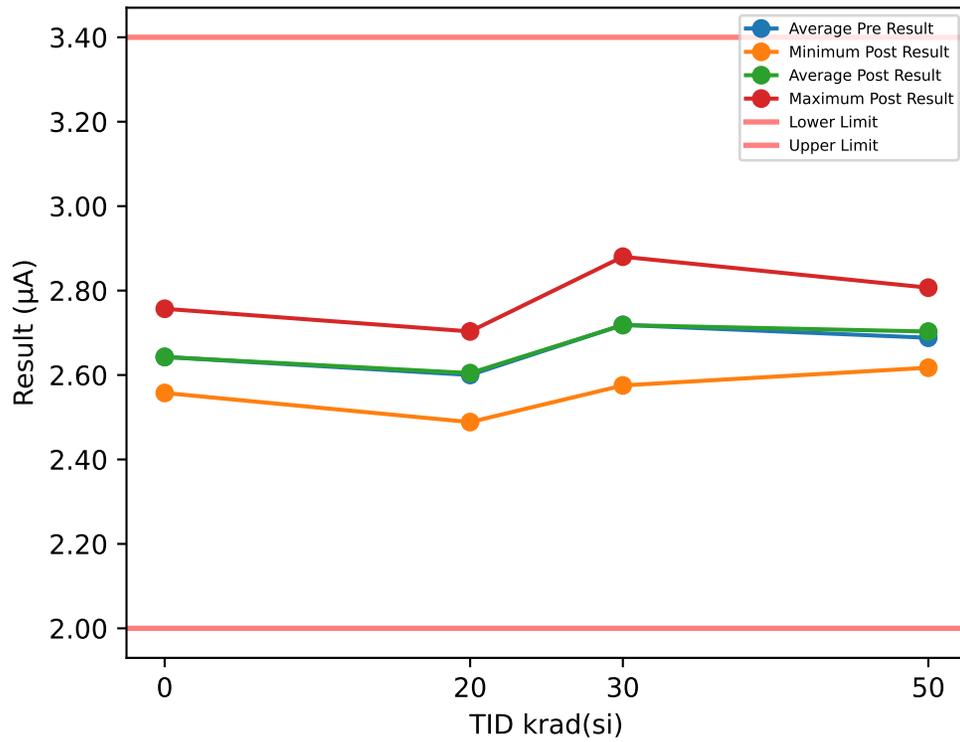
Device Test: 18.9 CURRENT|SS_0p3V/SS/12/12/0/1000/5/100kHz//@I_SS

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
21	20	HDR BIAS	2.6005	2.5896	-0.0109
22	20	HDR BIAS	2.5231	2.5686	0.0455
23	20	HDR BIAS	2.544	2.5384	-0.0056
24	20	HDR BIAS	2.6324	2.6669	0.0345
25	20	HDR BIAS	2.6652	2.7032	0.038
26	20	HDR UNBIAS	2.646	2.638	-0.008
27	20	HDR UNBIAS	2.5104	2.4885	-0.0219
28	20	HDR UNBIAS	2.5743	2.5586	-0.0157
29	20	HDR UNBIAS	2.719	2.6978	-0.0212
30	20	HDR UNBIAS	2.586	2.5958	0.0098
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
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

Test Statistics (μA)
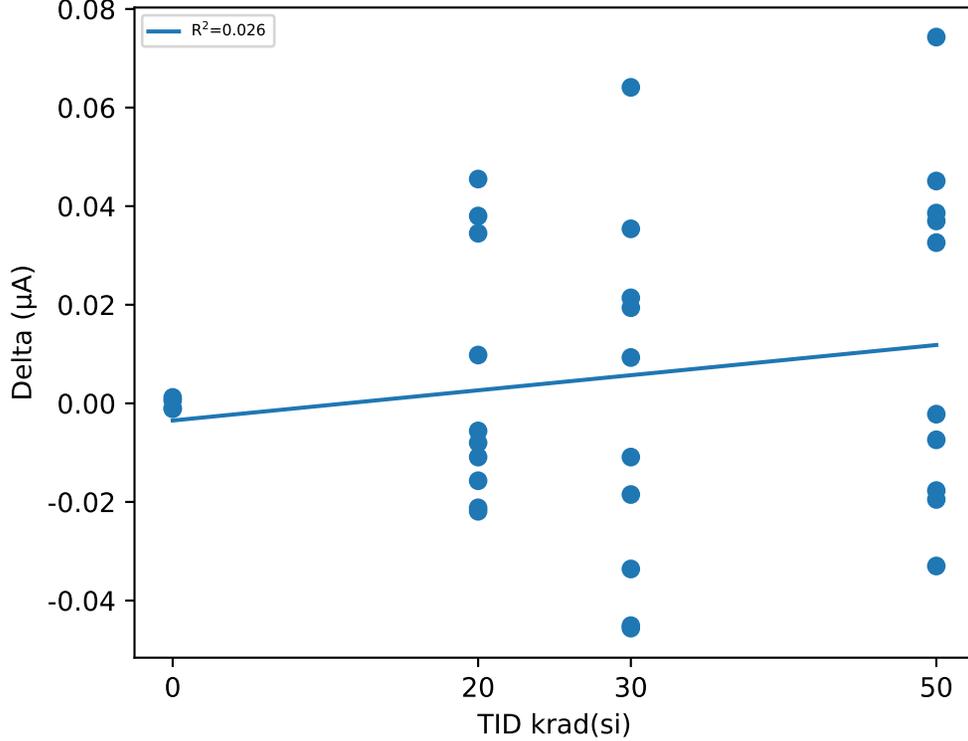
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5563	2.6427	2.7563	0.09988	2.5575	2.6427	2.7569	0.09984	-0.0011	-7.5e-05	0.0012	0.0011529
20	2.5104	2.6001	2.719	0.066259	2.4885	2.6045	2.7032	0.070696	-0.0219	0.00445	0.0455	0.025803
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

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))

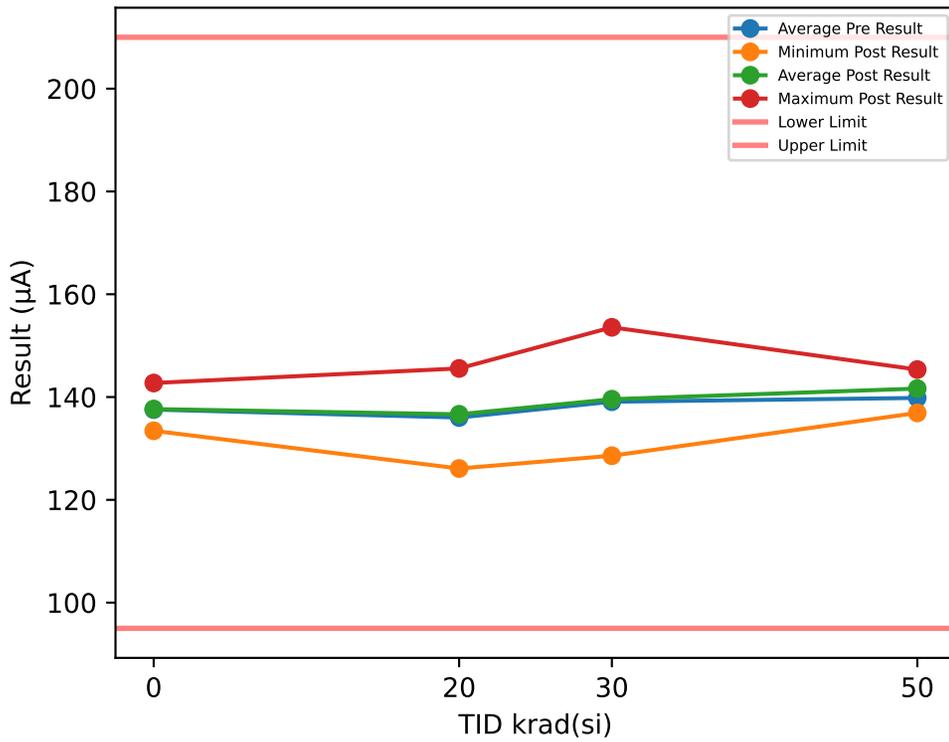| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	129.66	129.62	-0.0402
22	20	HDR BIAS	132.69	135.13	2.4455
23	20	HDR BIAS	134.91	134.51	-0.4031
24	20	HDR BIAS	138.77	140.75	1.9795
25	20	HDR BIAS	135.83	138.1	2.2751
26	20	HDR UNBIAS	145.53	145.56	0.0324
27	20	HDR UNBIAS	127.93	126.1	-1.8353
28	20	HDR UNBIAS	140.35	140.4	0.0483
29	20	HDR UNBIAS	138.3	137.79	-0.5136
30	20	HDR UNBIAS	136.19	138.51	2.3134
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
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)
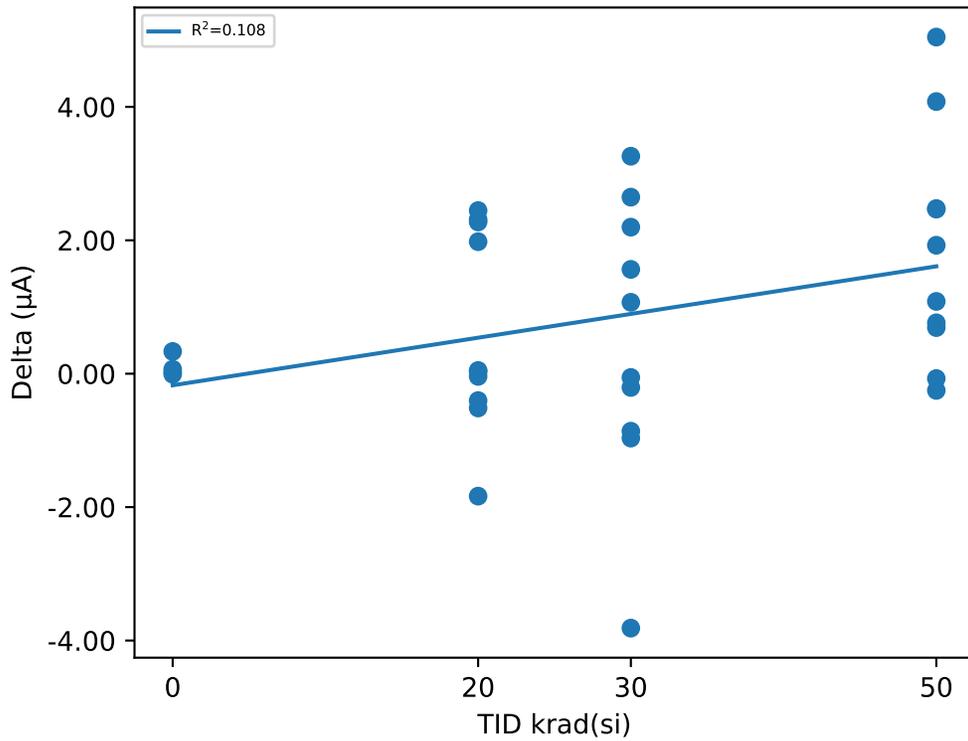
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	133.37	137.56	142.4	3.8586	133.43	137.66	142.73	3.9717	-0.0077	0.1032	0.3333	0.15644
20	127.93	136.02	145.53	5.1671	126.1	136.65	145.56	5.6261	-1.8353	0.6302	2.4455	1.5002
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta


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

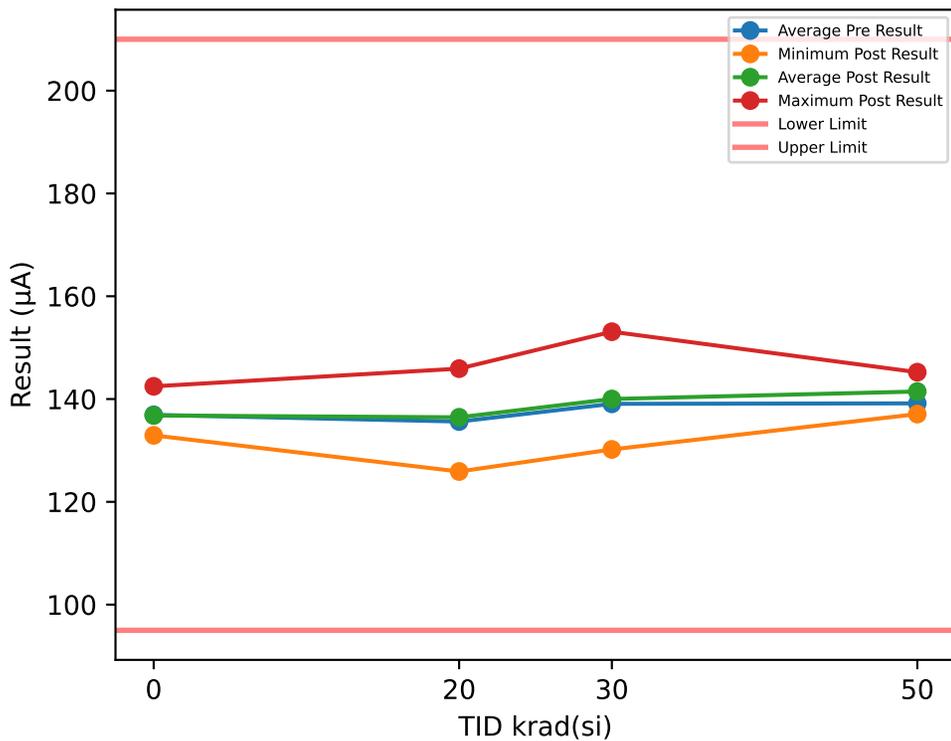| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	129.17	128.75	-0.4228
22	20	HDR BIAS	132.32	135.11	2.787
23	20	HDR BIAS	135.44	135.67	0.2317
24	20	HDR BIAS	138.38	141.07	2.6913
25	20	HDR BIAS	134.86	137.3	2.4349
26	20	HDR UNBIAS	145.18	145.91	0.737
27	20	HDR UNBIAS	128.29	125.9	-2.3911
28	20	HDR UNBIAS	139.32	139.43	0.1085
29	20	HDR UNBIAS	137.92	136.8	-1.1226
30	20	HDR UNBIAS	135.33	138.57	3.2434
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
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)
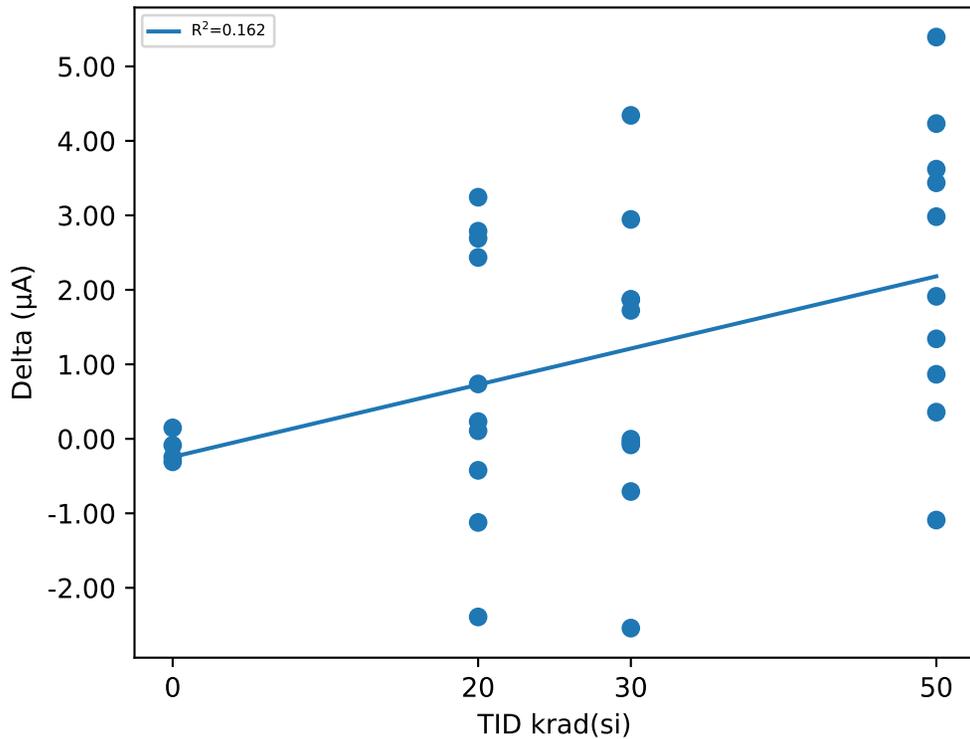
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	132.78	136.92	142.78	4.3353	132.93	136.8	142.47	4.1564	-0.3085	-0.12307	0.147	0.20296
20	128.29	135.62	145.18	4.9974	125.9	136.45	145.91	5.7551	-2.3911	0.82973	3.2434	1.8956
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 25.0 (nA))

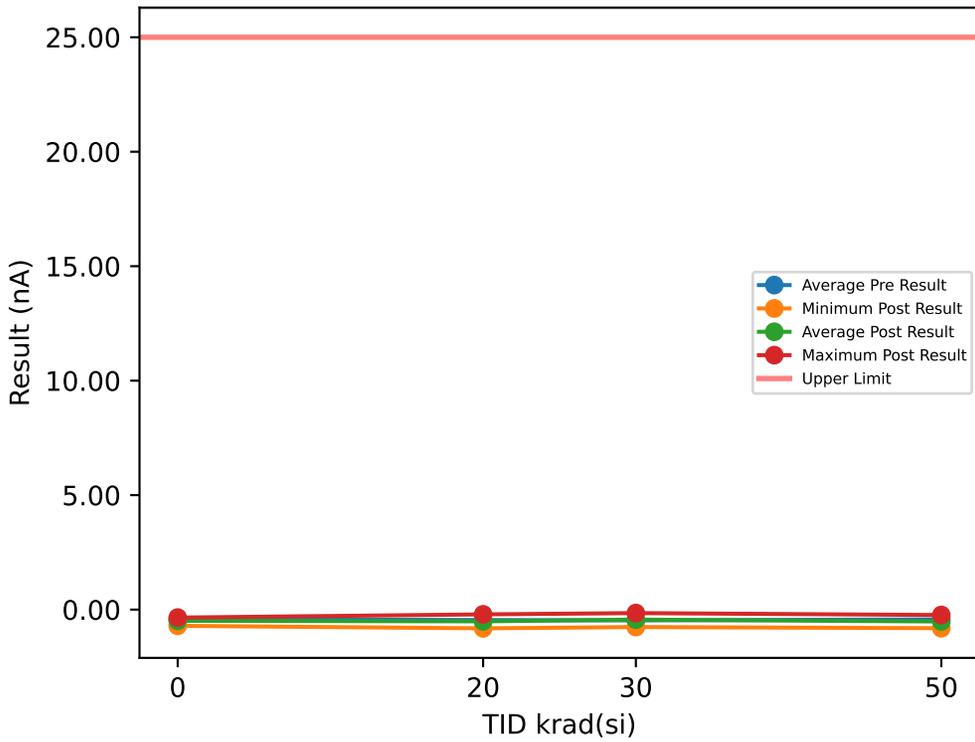| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.465	-0.3245	0.1405
22	20	HDR BIAS	-0.4967	-0.6089	-0.1122
23	20	HDR BIAS	-0.4181	-0.2091	0.209
24	20	HDR BIAS	-0.4993	-0.4608	0.0385
25	20	HDR BIAS	-0.4998	-0.5242	-0.0244
26	20	HDR UNBIAS	-0.415	-0.8119	-0.3969
27	20	HDR UNBIAS	-0.4962	-0.2435	0.2527
28	20	HDR UNBIAS	-0.3718	-0.5449	-0.1731
29	20	HDR UNBIAS	-0.4306	-0.5804	-0.1498
30	20	HDR UNBIAS	-0.4774	-0.8181	-0.3407
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
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)
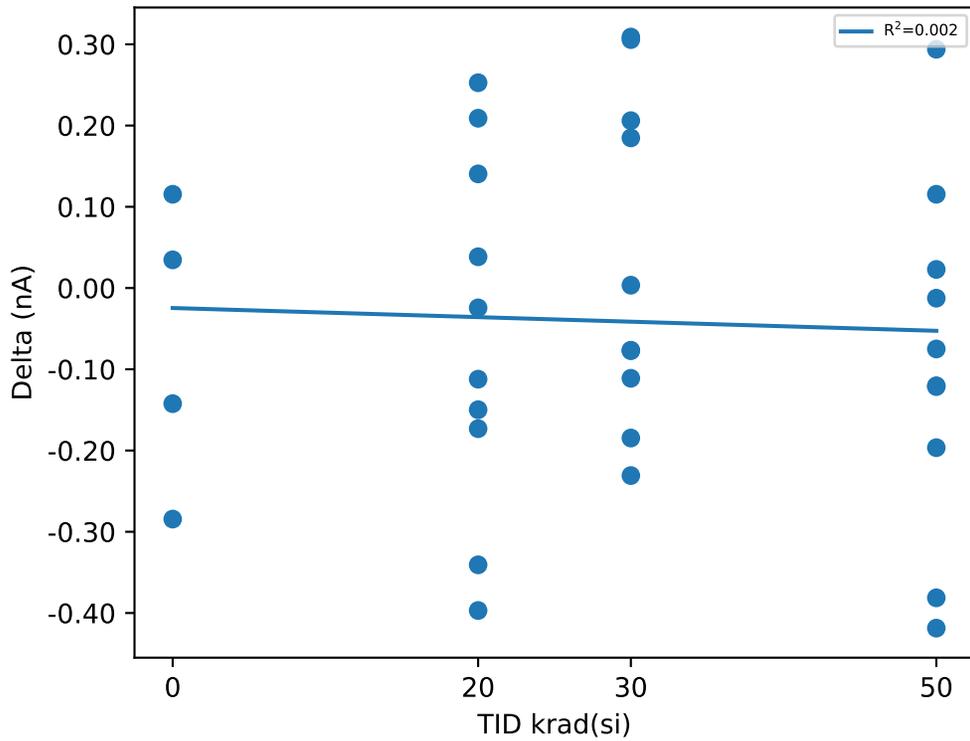
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4649	-0.4206	-0.3963	0.032321	-0.7088	-0.48975	-0.3495	0.16964	-0.2844	-0.06915	0.1154	0.17938
20	-0.4998	-0.45699	-0.3718	0.045274	-0.8181	-0.51263	-0.2091	0.21096	-0.3969	-0.05564	0.2527	0.22035
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

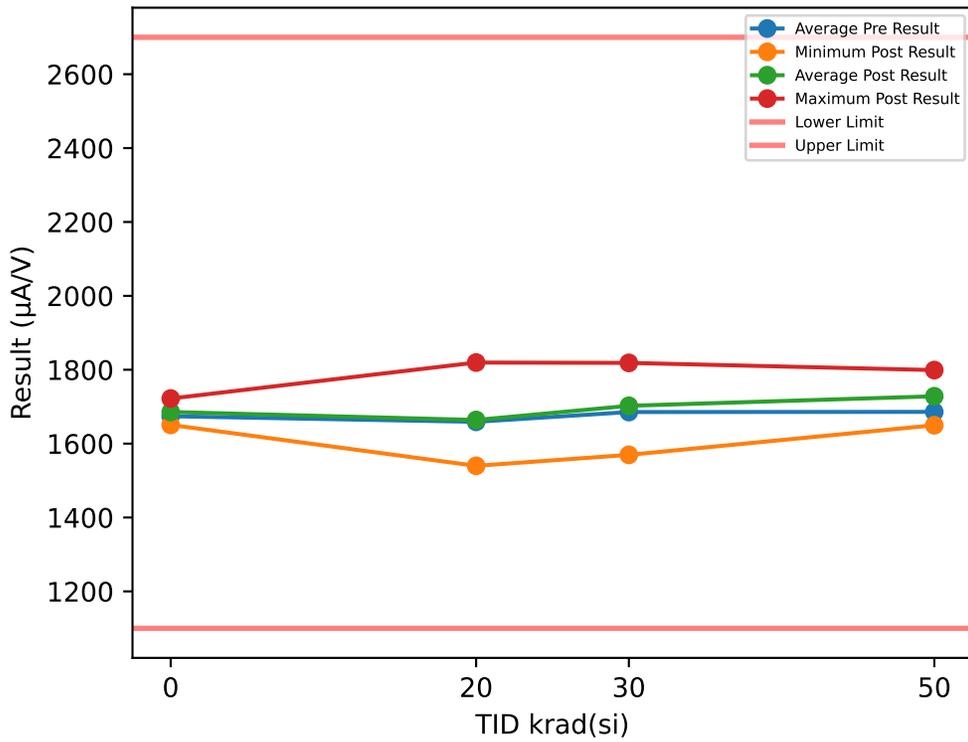| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1585.3	1585.1	-0.1723
22	20	HDR BIAS	1599	1617.3	18.32
23	20	HDR BIAS	1650.8	1651	0.2599
24	20	HDR BIAS	1703.3	1720.7	17.374
25	20	HDR BIAS	1665.6	1667.7	2.0448
26	20	HDR UNBIAS	1799.1	1819.5	20.341
27	20	HDR UNBIAS	1585.3	1539.9	-45.405
28	20	HDR UNBIAS	1683.2	1702.4	19.257
29	20	HDR UNBIAS	1668	1685.2	17.274
30	20	HDR UNBIAS	1650.7	1650.7	0.0081
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
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)
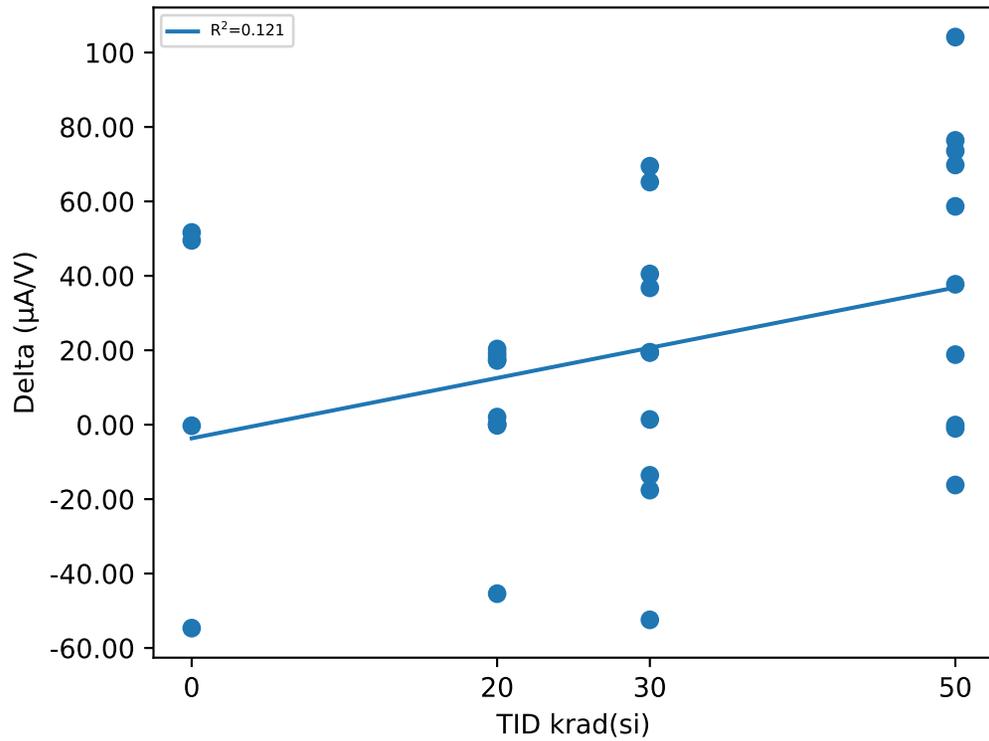
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1601.2	1674.1	1776.7	73.997	1650.7	1685.7	1722	32.405	-54.662	11.559	51.659	50.248
20	1585.3	1659	1799.1	64.047	1539.9	1664	1819.5	77.09	-45.405	4.9302	20.341	19.842
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

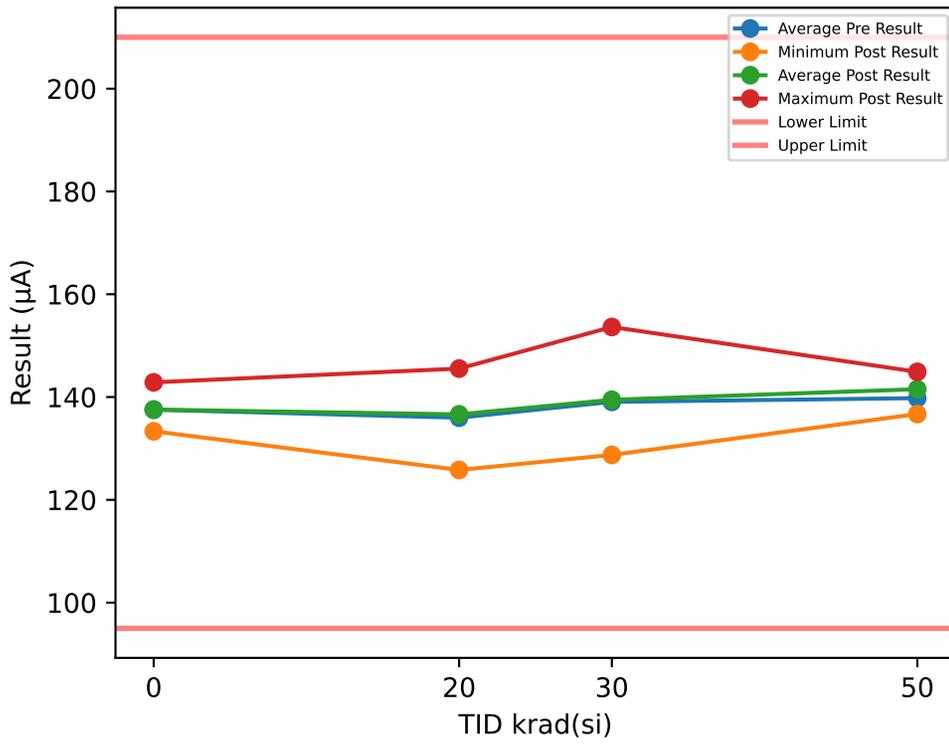| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	129.79	129.46	-0.3229
22	20	HDR BIAS	132.59	135.39	2.7919
23	20	HDR BIAS	134.82	134.44	-0.3718
24	20	HDR BIAS	138.77	140.94	2.1681
25	20	HDR BIAS	135.7	138.01	2.3065
26	20	HDR UNBIAS	145.59	145.53	-0.062
27	20	HDR UNBIAS	127.93	125.81	-2.1188
28	20	HDR UNBIAS	140.04	140.31	0.2681
29	20	HDR UNBIAS	138.49	137.92	-0.5764
30	20	HDR UNBIAS	136.1	138.51	2.4076
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
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)
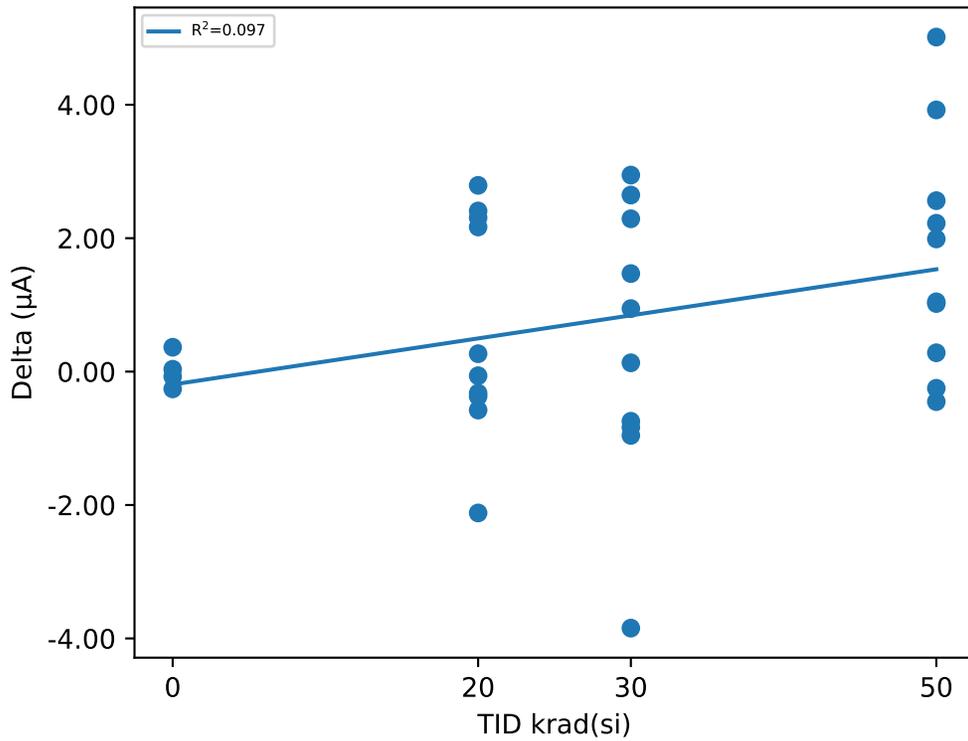
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	133.3	137.54	142.49	3.9271	133.34	137.56	142.85	4.0632	-0.259	0.016825	0.3651	0.26199
20	127.93	135.98	145.59	5.1539	125.81	136.63	145.53	5.7068	-2.1188	0.64903	2.7919	1.6512
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
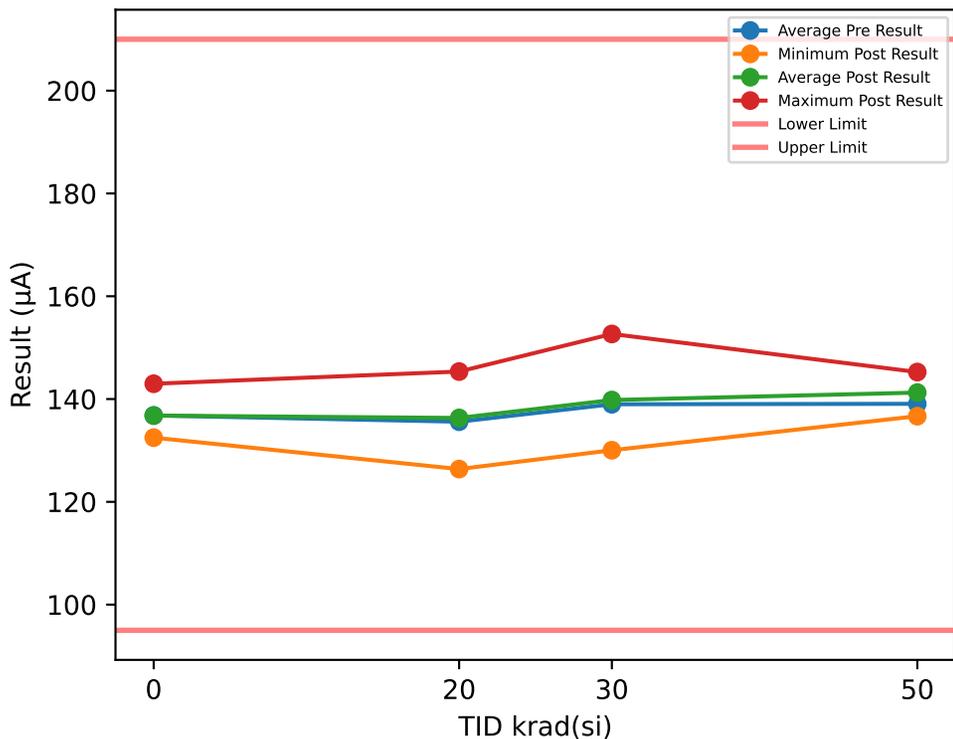
Device Test: 19.15 CURRENT|EA_SINK//14/14/0/0/5/500kHz//@EA_I_SINK

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
21	20	HDR BIAS	129.17	128.69	-0.4856
22	20	HDR BIAS	132.44	134.98	2.5353
23	20	HDR BIAS	135.34	135.57	0.2314
24	20	HDR BIAS	138.28	140.82	2.5341
25	20	HDR BIAS	134.83	137.2	2.372
26	20	HDR UNBIAS	145.3	145.35	0.0441
27	20	HDR UNBIAS	128.2	126.38	-1.8244
28	20	HDR UNBIAS	139.2	139.31	0.1084
29	20	HDR UNBIAS	137.67	136.7	-0.9655
30	20	HDR UNBIAS	135.45	138.23	2.7711
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
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)
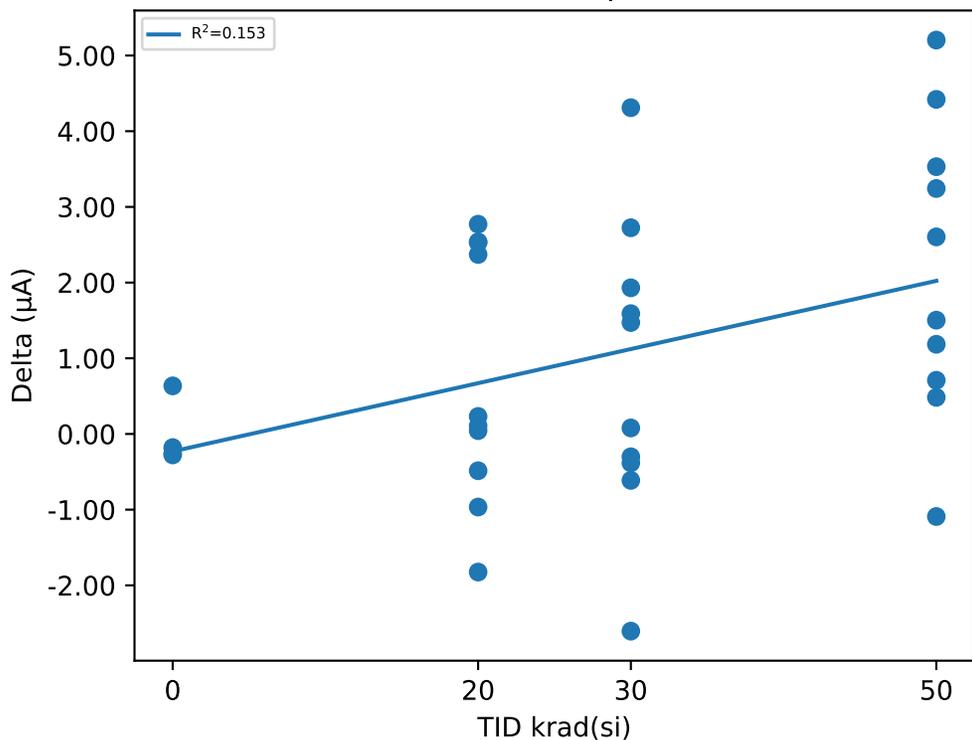
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	132.75	136.81	142.34	4.1421	132.49	136.78	142.98	4.5328	-0.2764	-0.021025	0.6352	0.43955
20	128.2	135.59	145.3	5.003	126.38	136.32	145.35	5.5247	-1.8244	0.73209	2.7711	1.6786
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

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))

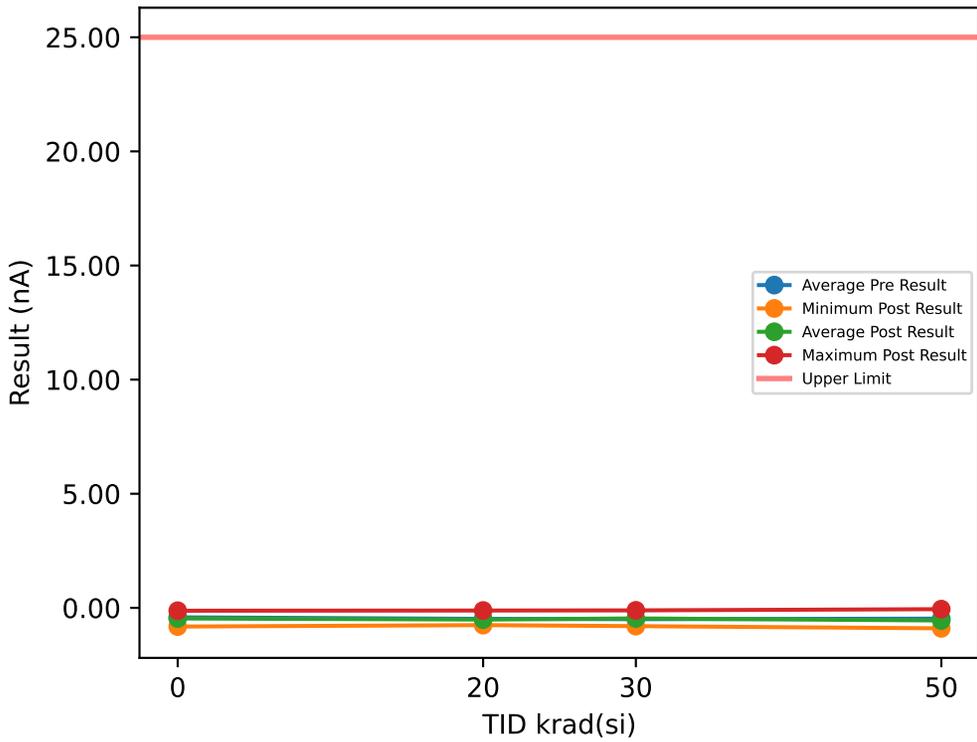| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.5086	-0.2715	0.2371
22	20	HDR BIAS	-0.5155	-0.7494	-0.2339
23	20	HDR BIAS	-0.4212	-0.1155	0.3057
24	20	HDR BIAS	-0.465	-0.52	-0.055
25	20	HDR BIAS	-0.5248	-0.6179	-0.0931
26	20	HDR UNBIAS	-0.5086	-0.7557	-0.2471
27	20	HDR UNBIAS	-0.4431	-0.4089	0.0342
28	20	HDR UNBIAS	-0.4717	-0.439	0.0327
29	20	HDR UNBIAS	-0.4275	-0.4962	-0.0687
30	20	HDR UNBIAS	-0.518	-0.7525	-0.2345
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
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)
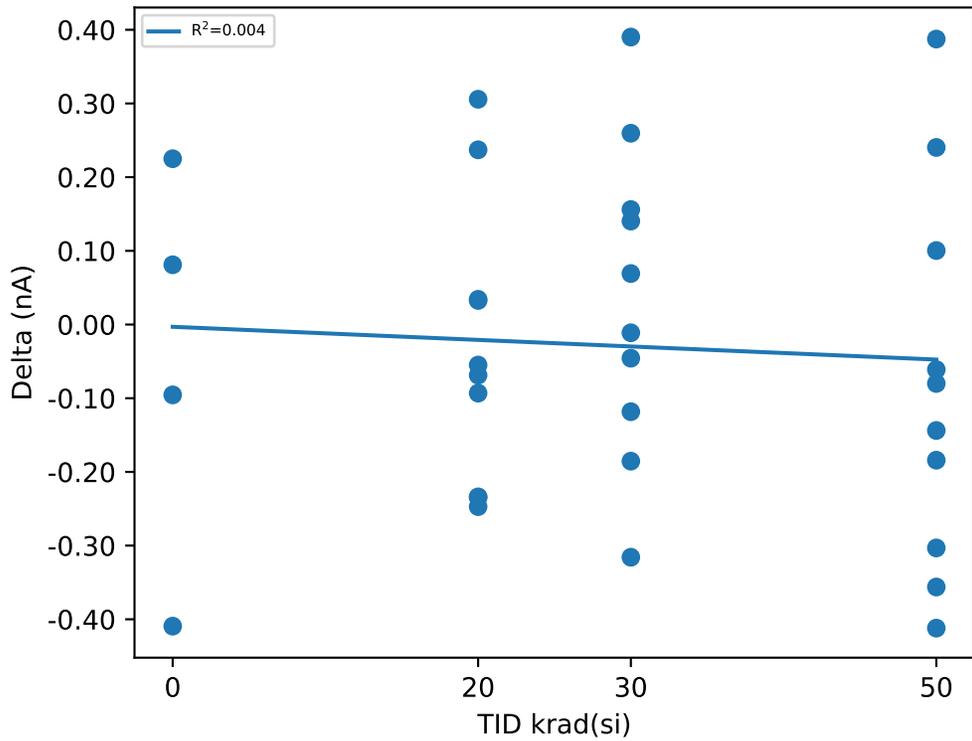
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4649	-0.41432	-0.3499	0.048697	-0.8181	-0.464	-0.1249	0.29557	-0.4093	-0.049675	0.225	0.27324
20	-0.5248	-0.4804	-0.4212	0.039742	-0.7557	-0.51266	-0.1155	0.21503	-0.2471	-0.03226	0.3057	0.1911
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 25.0 (nA))

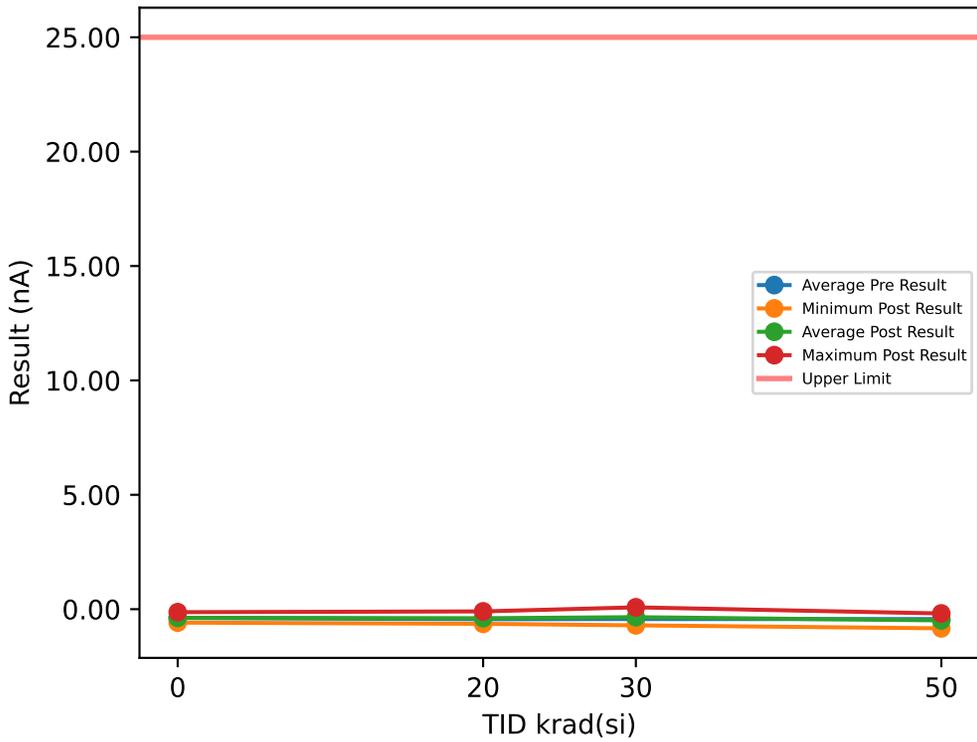| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.4712	-0.2621	0.2091
22	20	HDR BIAS	-0.4405	-0.5371	-0.0966
23	20	HDR BIAS	-0.3869	-0.0968	0.2901
24	20	HDR BIAS	-0.4213	-0.4515	-0.0302
25	20	HDR BIAS	-0.6779	-0.3277	0.3502
26	20	HDR UNBIAS	-0.4524	-0.6401	-0.1877
27	20	HDR UNBIAS	-0.4806	-0.2185	0.2621
28	20	HDR UNBIAS	-0.3124	-0.5262	-0.2138
29	20	HDR UNBIAS	-0.3401	-0.3776	-0.0375
30	20	HDR UNBIAS	-0.4025	-0.5059	-0.1034
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
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)
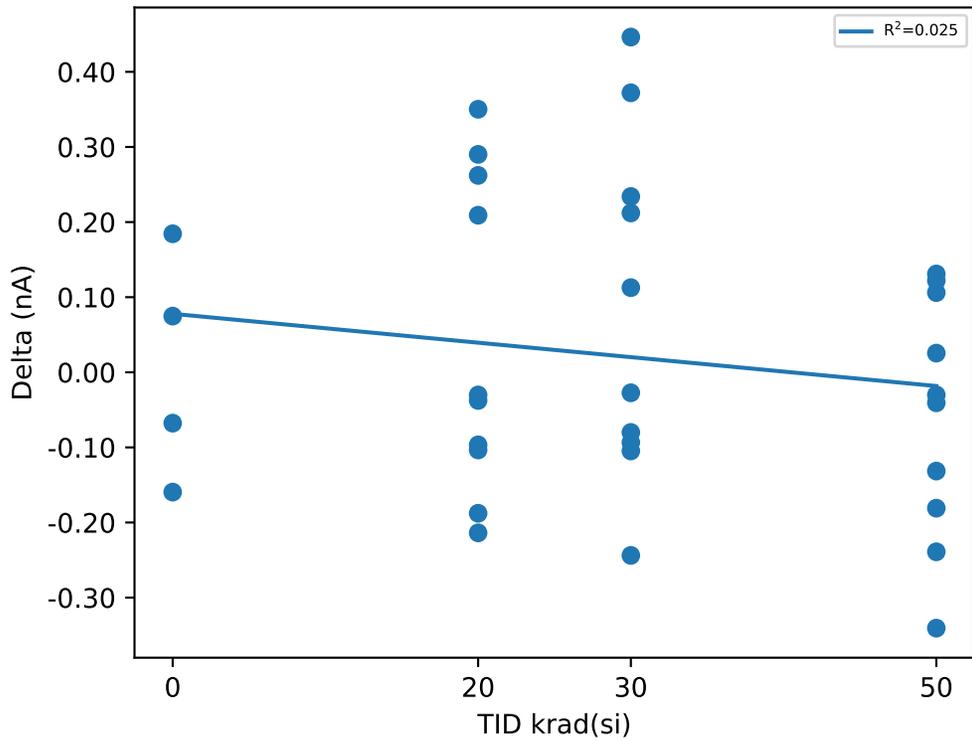
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4275	-0.38543	-0.3155	0.048737	-0.587	-0.37743	-0.1311	0.19772	-0.1595	0.008	0.1844	0.15206
20	-0.6779	-0.43858	-0.3124	0.10011	-0.6401	-0.39435	-0.0968	0.1685	-0.2138	0.04423	0.3502	0.21159
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 25.0 (nA))

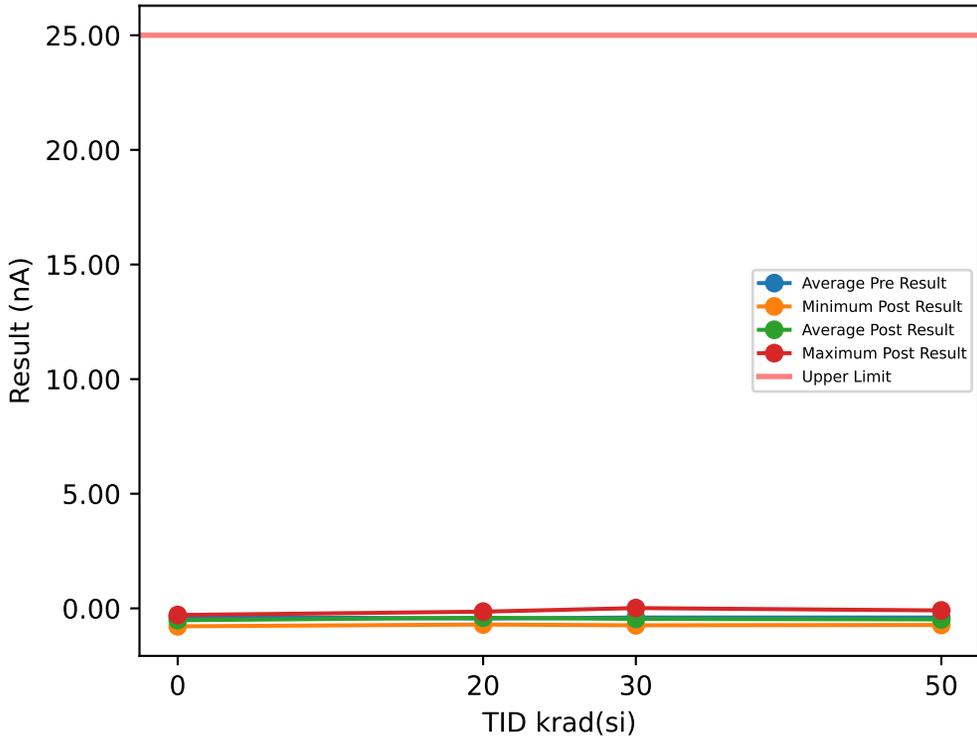| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.4338	-0.4025	0.0313
22	20	HDR BIAS	-0.453	-0.7057	-0.2527
23	20	HDR BIAS	-0.3619	-0.2216	0.1403
24	20	HDR BIAS	-0.4993	-0.4297	0.0696
25	20	HDR BIAS	-0.6842	-0.3308	0.3534
26	20	HDR UNBIAS	-0.4025	-0.5714	-0.1689
27	20	HDR UNBIAS	-0.4712	-0.1654	0.3058
28	20	HDR UNBIAS	-0.4124	-0.4577	-0.0453
29	20	HDR UNBIAS	-0.3089	-0.1435	0.1654
30	20	HDR UNBIAS	-0.4244	-0.6651	-0.2407
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
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

Test Statistics (nA)
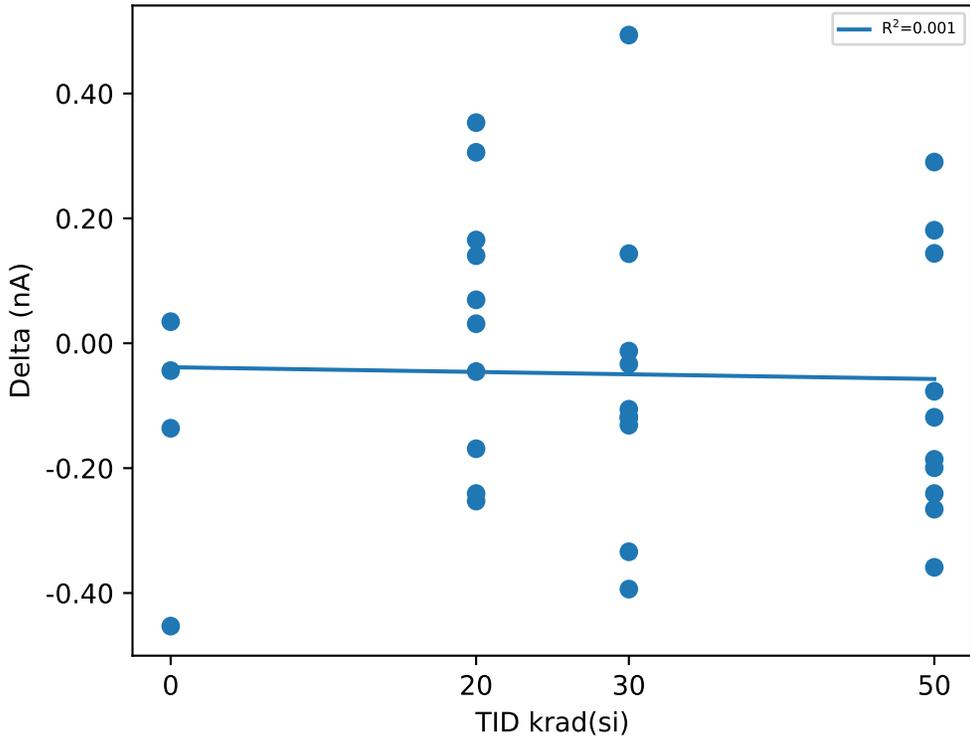
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4212	-0.36907	-0.3249	0.048487	-0.7838	-0.51865	-0.2903	0.20462	-0.453	-0.14958	0.0346	0.21398
20	-0.6842	-0.44516	-0.3089	0.099868	-0.7057	-0.40934	-0.1435	0.1983	-0.2527	0.03582	0.3534	0.21365
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
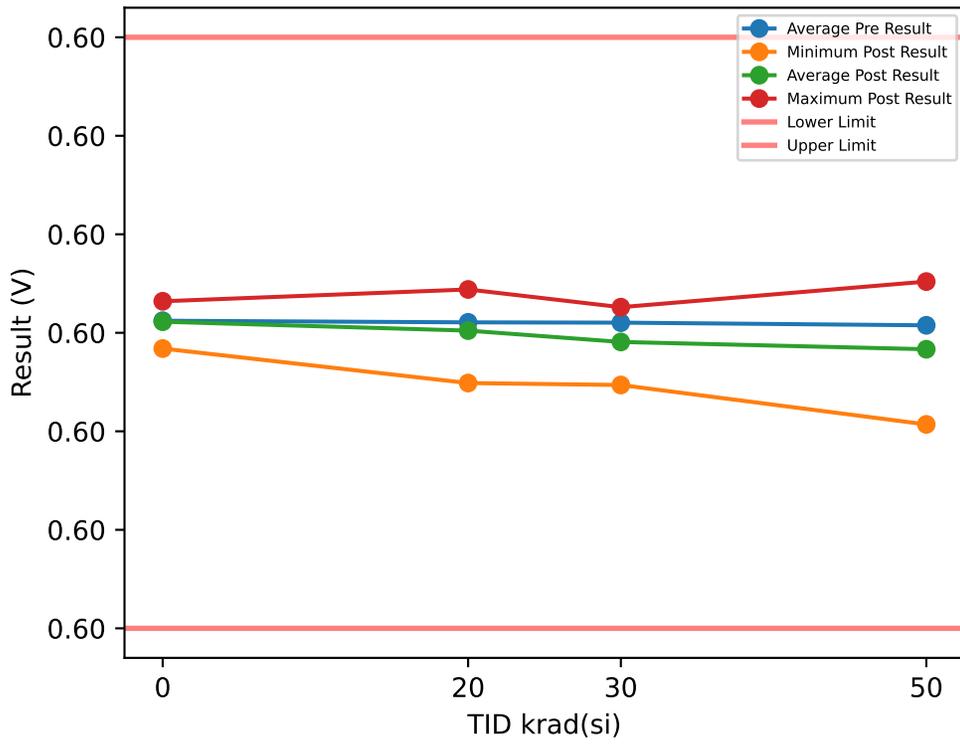
Device Test: 19.19 VOLTAGE|VREF//12/12/0/0/5/100kHz//@VREF_25C

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
21	20	HDR BIAS	0.60025	0.60043	0.00018
22	20	HDR BIAS	0.60035	0.60039	4e-05
23	20	HDR BIAS	0.60002	0.59973	-0.00029
24	20	HDR BIAS	0.60023	0.59989	-0.00034
25	20	HDR BIAS	0.6003	0.60006	-0.00024
26	20	HDR UNBIAS	0.60027	0.60014	-0.00013
27	20	HDR UNBIAS	0.59978	0.59992	0.00014
28	20	HDR UNBIAS	0.59981	0.59973	-8e-05
29	20	HDR UNBIAS	0.60024	0.60044	0.0002
30	20	HDR UNBIAS	0.59981	0.59949	-0.00032
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
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)
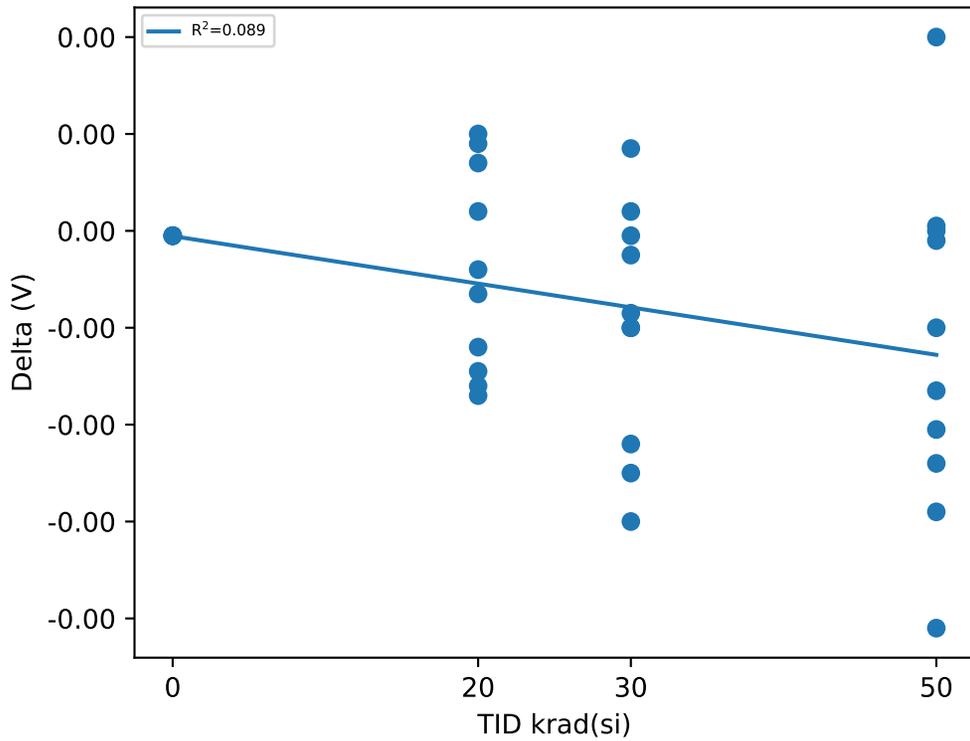
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59985	0.60012	0.60033	0.00020871	0.59984	0.60011	0.60032	0.00020871	-1e-05	-1e-05	-1e-05	6.4099e-17
20	0.59978	0.60011	0.60035	0.0002278	0.59949	0.60002	0.60044	0.00032886	-0.00034	-8.4e-05	0.0002	0.0002124
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7178	0.7799	0.0621
22	20	HDR BIAS	1.3856	1.4174	0.0318
23	20	HDR BIAS	0.1331	0.1545	0.0214
24	20	HDR BIAS	2.3303	2.3393	0.009
25	20	HDR BIAS	0.9357	0.9692	0.0335
26	20	HDR UNBIAS	1.0281	1.0717	0.0436
27	20	HDR UNBIAS	0.8101	0.8024	-0.0077
28	20	HDR UNBIAS	2.3365	2.3669	0.0304
29	20	HDR UNBIAS	1.083	1.1178	0.0348
30	20	HDR UNBIAS	1.451	1.4697	0.0187
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
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)
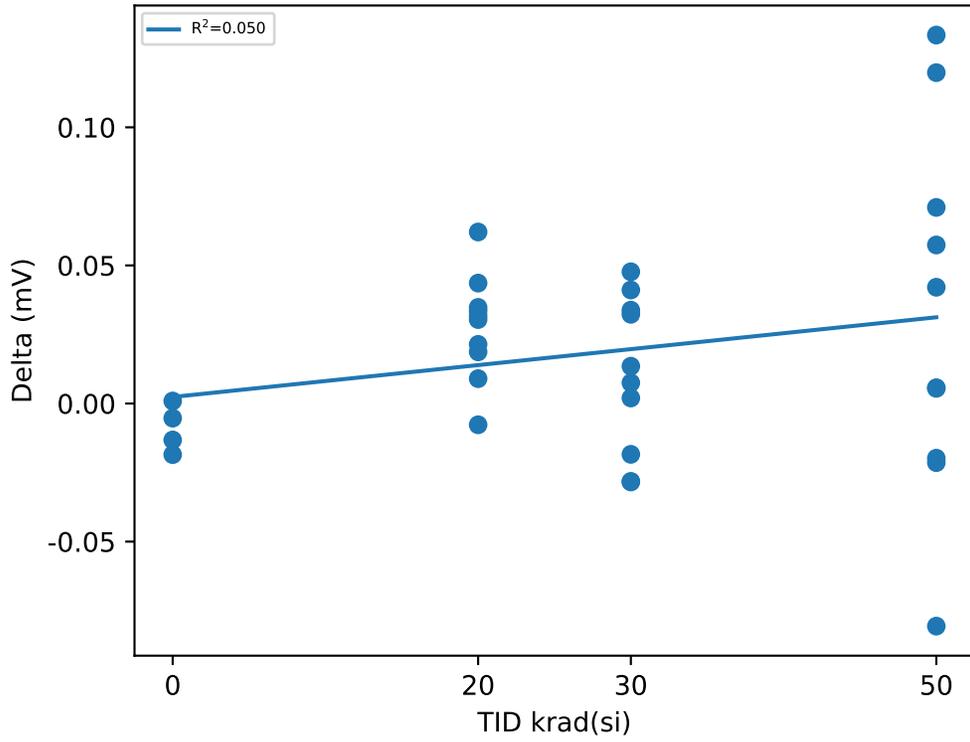
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2675	1.0568	2.159	0.81957	0.2622	1.0478	2.1599	0.82318	-0.0185	-0.009025	0.0009	0.0085555
20	0.1331	1.2211	2.3365	0.69106	0.1545	1.2489	2.3669	0.68798	-0.0077	0.02776	0.0621	0.019055
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
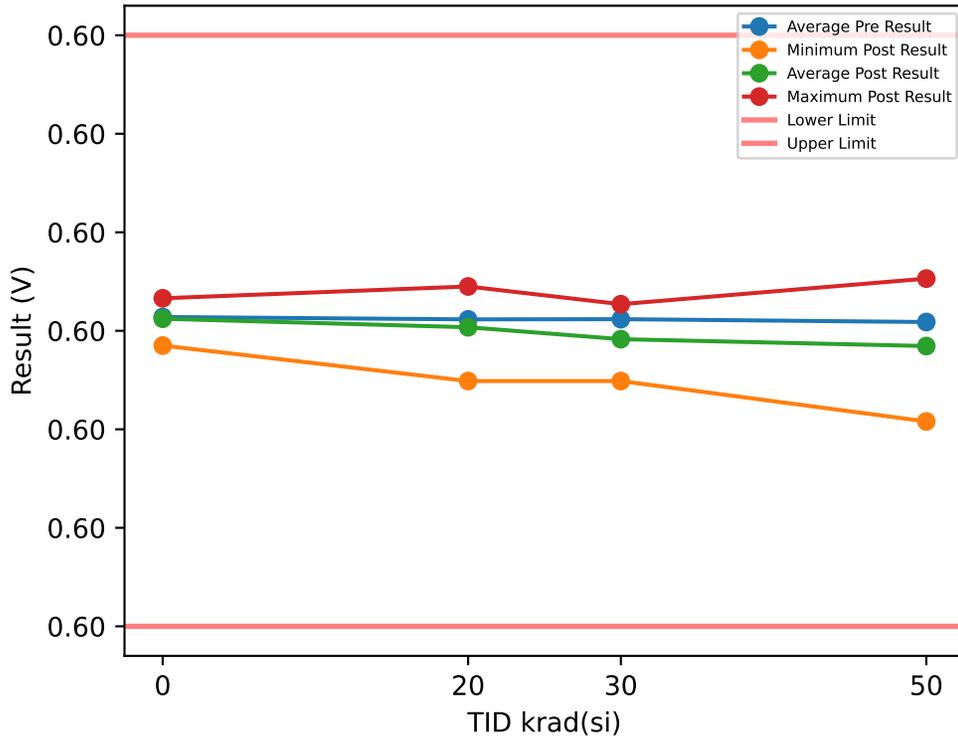
Device Test: 19.22 VOLTAGE|VREF//14/14/0/0/5/100kHz//@VREF_25C

TID vs Result Stats

Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

TID vs Post - Pre Exposure Delta

$R^2=0.088$

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

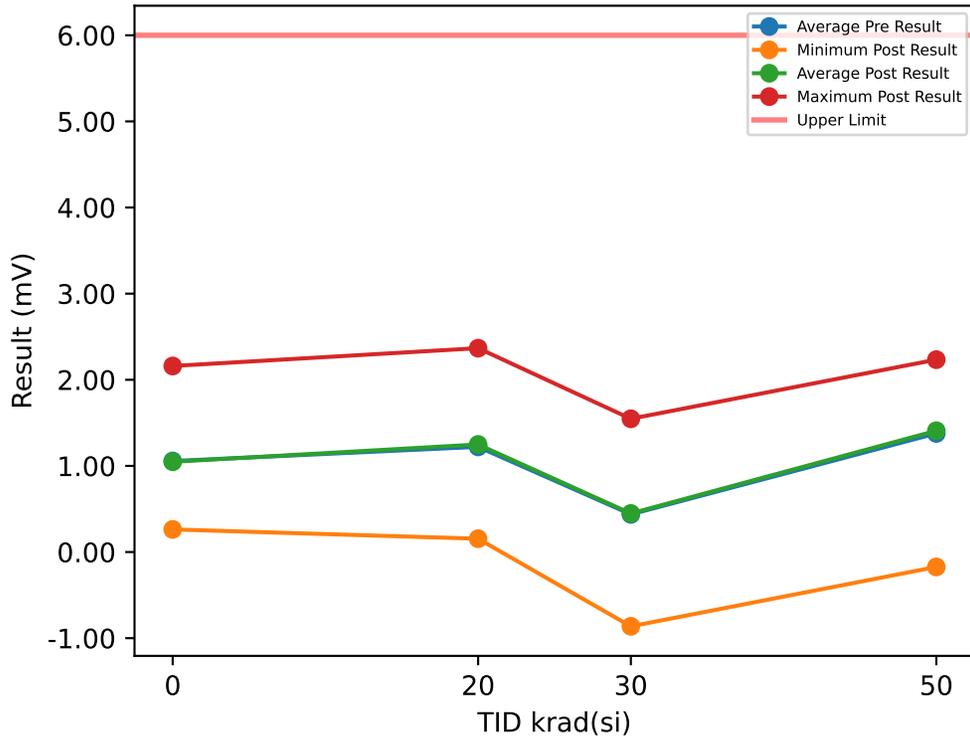| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60028	0.60045	0.00017
22	20	HDR BIAS	0.60035	0.6004	5e-05
23	20	HDR BIAS	0.60002	0.59974	-0.00028
24	20	HDR BIAS	0.60023	0.5999	-0.00033
25	20	HDR BIAS	0.60031	0.60007	-0.00024
26	20	HDR UNBIAS	0.60028	0.60016	-0.00012
27	20	HDR UNBIAS	0.59979	0.59994	0.00015
28	20	HDR UNBIAS	0.59981	0.59976	-5e-05
29	20	HDR UNBIAS	0.60026	0.60045	0.00019
30	20	HDR UNBIAS	0.59983	0.59949	-0.00034
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
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)
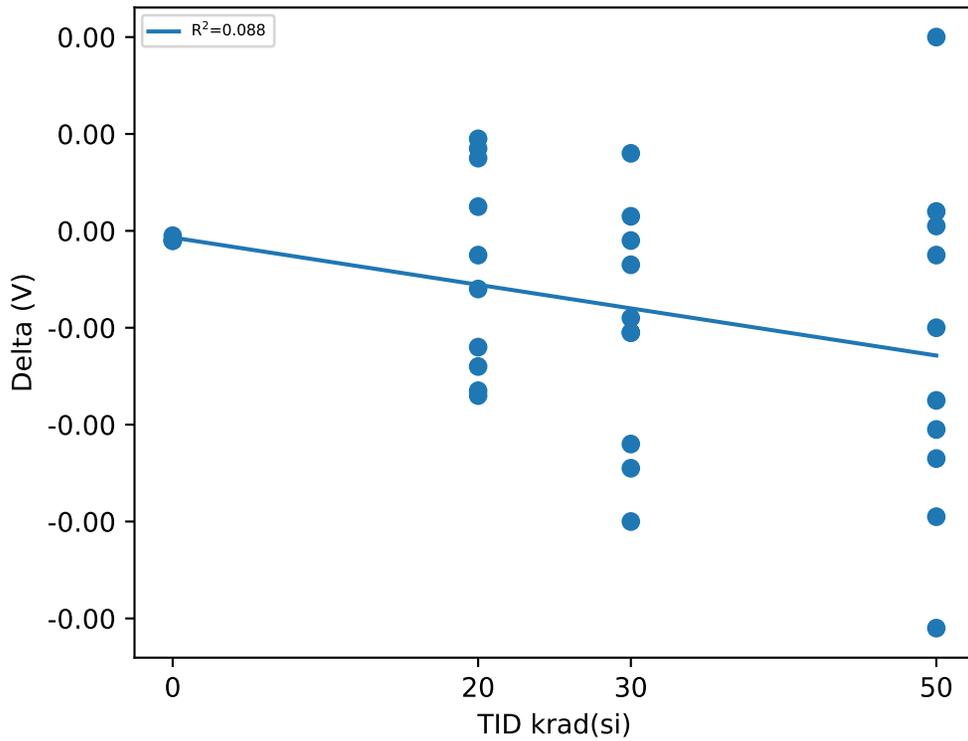
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59986	0.60014	0.60035	0.00021307	0.59985	0.60012	0.60033	0.00020871	-2e-05	-1.75e-05	-1e-05	5e-06
20	0.59979	0.60012	0.60035	0.00022873	0.59949	0.60004	0.60045	0.00033023	-0.00034	-8e-05	0.00019	0.00021171
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7287	0.7807	0.052
22	20	HDR BIAS	1.3829	1.4169	0.034
23	20	HDR BIAS	0.1268	0.1581	0.0313
24	20	HDR BIAS	2.3292	2.339	0.0098
25	20	HDR BIAS	0.9389	0.9718	0.0329
26	20	HDR UNBIAS	1.0325	1.0713	0.0388
27	20	HDR UNBIAS	0.8045	0.7988	-0.0057
28	20	HDR UNBIAS	2.3256	2.3736	0.048
29	20	HDR UNBIAS	1.0819	1.1079	0.026
30	20	HDR UNBIAS	1.4487	1.4578	0.0091
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
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)
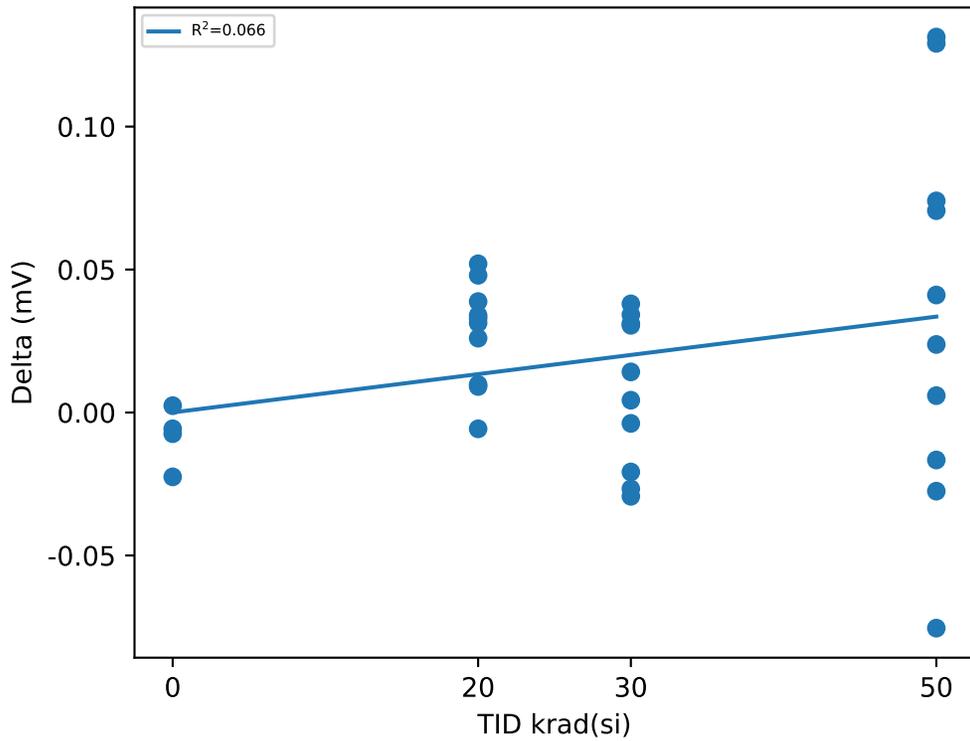
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2686	1.0574	2.1575	0.81671	0.2629	1.0491	2.1599	0.82307	-0.0225	-0.0083	0.0024	0.010387
20	0.1268	1.22	2.3292	0.68911	0.1581	1.2476	2.3736	0.68839	-0.0057	0.02762	0.052	0.018228
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

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))

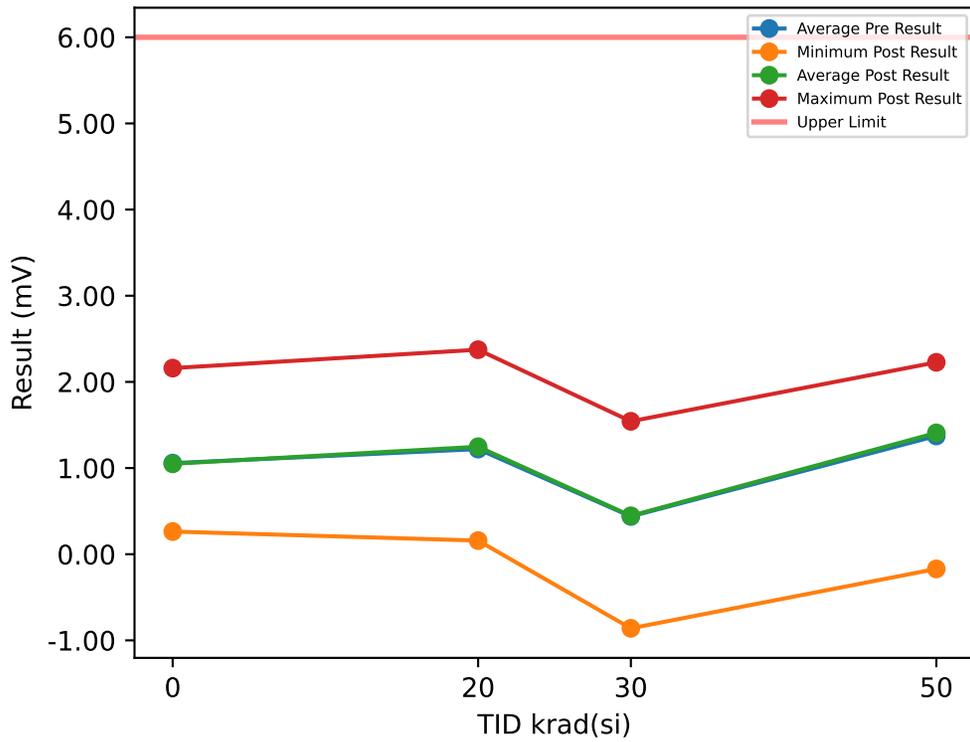| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60026	0.60042	0.00016
22	20	HDR BIAS	0.60034	0.6004	6e-05
23	20	HDR BIAS	0.60001	0.59973	-0.00028
24	20	HDR BIAS	0.60023	0.59989	-0.00034
25	20	HDR BIAS	0.6003	0.60006	-0.00024
26	20	HDR UNBIAS	0.60027	0.60014	-0.00013
27	20	HDR UNBIAS	0.59978	0.59992	0.00014
28	20	HDR UNBIAS	0.5998	0.59973	-7e-05
29	20	HDR UNBIAS	0.60025	0.60043	0.00018
30	20	HDR UNBIAS	0.59981	0.59949	-0.00032
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
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)
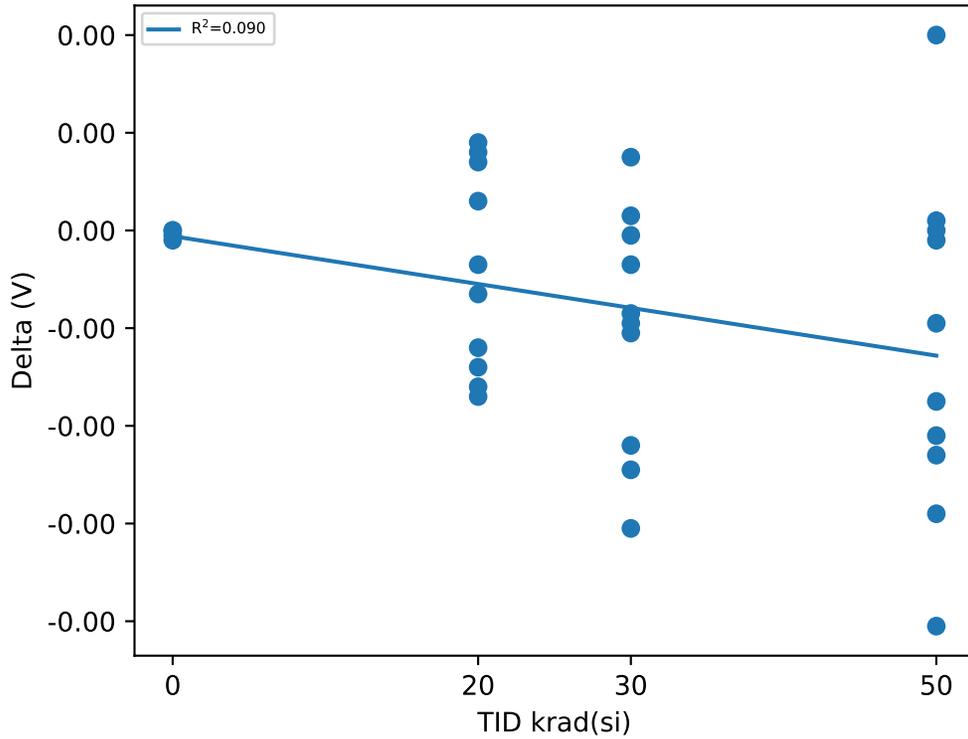
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59984	0.60013	0.60034	0.00021579	0.59984	0.60012	0.60033	0.00021376	-2e-05	-7.5e-06	0	9.5743e-06
20	0.59978	0.6001	0.60034	0.00022994	0.59949	0.60002	0.60043	0.00032736	-0.00034	-8.4e-05	0.00018	0.00020721
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 6.0 (mV))

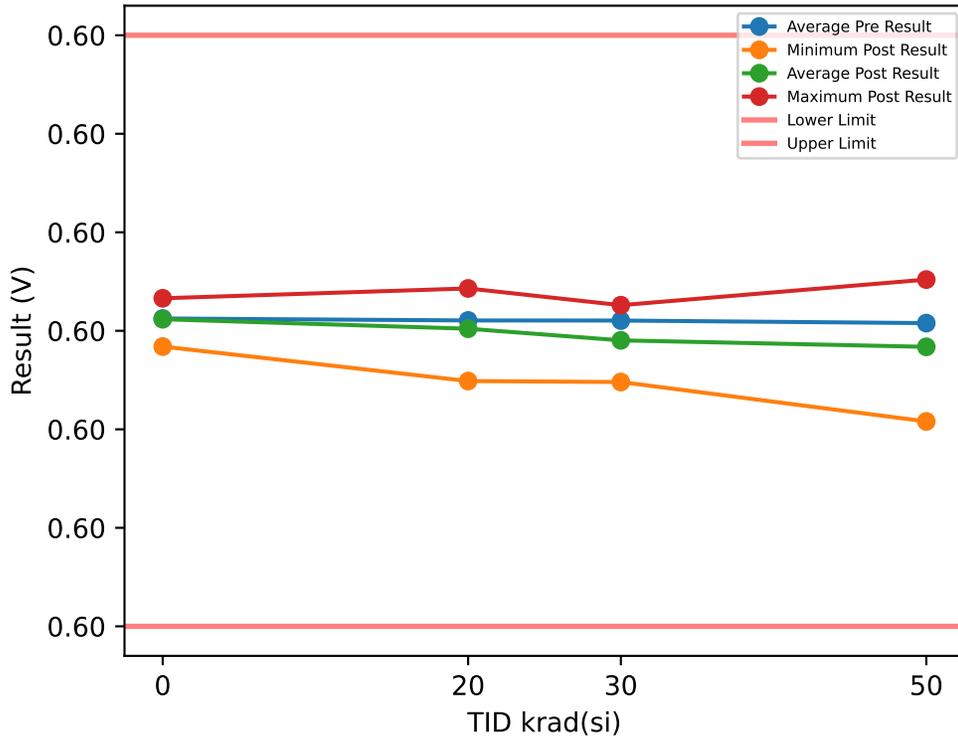| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7392	0.8016	0.0624
22	20	HDR BIAS	1.395	1.4426	0.0476
23	20	HDR BIAS	0.1523	0.1766	0.0243
24	20	HDR BIAS	2.3447	2.3555	0.0108
25	20	HDR BIAS	0.9578	0.984	0.0262
26	20	HDR UNBIAS	1.0468	1.0762	0.0294
27	20	HDR UNBIAS	0.8255	0.8268	0.0013
28	20	HDR UNBIAS	2.3527	2.3774	0.0247
29	20	HDR UNBIAS	1.1074	1.1367	0.0293
30	20	HDR UNBIAS	1.4668	1.4824	0.0156
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
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
20	0.1523	1.2388	2.3527	0.68913	0.1766	1.266	2.3774	0.68539	0.0013	0.02716	0.0624	0.017494
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

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))

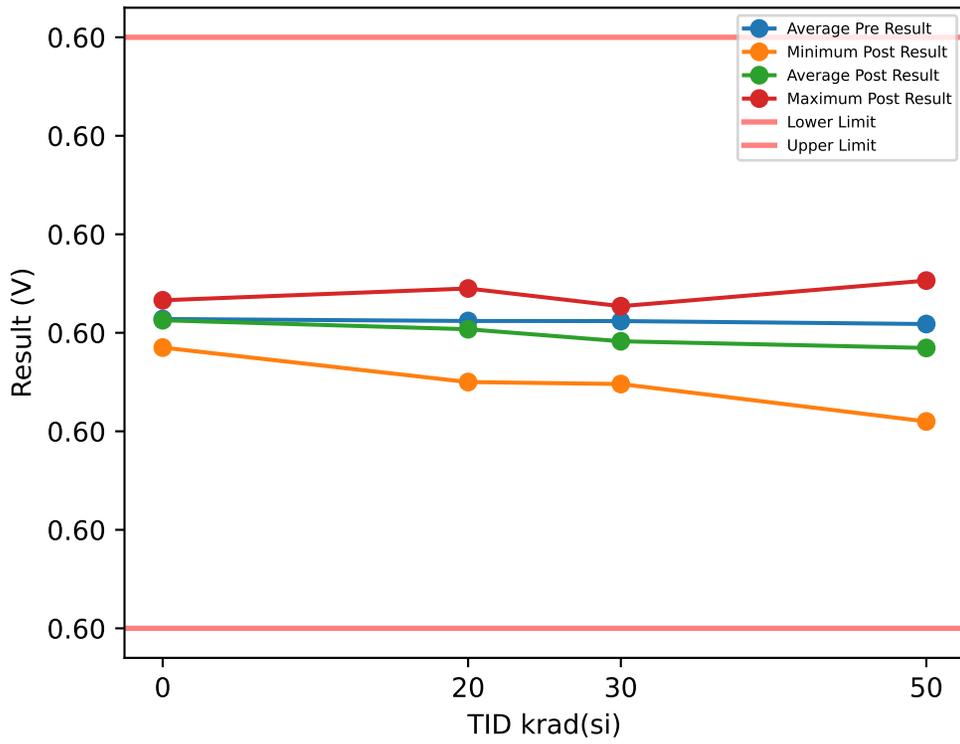| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60028	0.60043	0.00015
22	20	HDR BIAS	0.60035	0.60042	7e-05
23	20	HDR BIAS	0.60003	0.59974	-0.00029
24	20	HDR BIAS	0.60025	0.5999	-0.00035
25	20	HDR BIAS	0.60031	0.60007	-0.00024
26	20	HDR UNBIAS	0.60029	0.60016	-0.00013
27	20	HDR UNBIAS	0.59979	0.59994	0.00015
28	20	HDR UNBIAS	0.59981	0.59975	-6e-05
29	20	HDR UNBIAS	0.60026	0.60045	0.00019
30	20	HDR UNBIAS	0.59983	0.5995	-0.00033
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
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
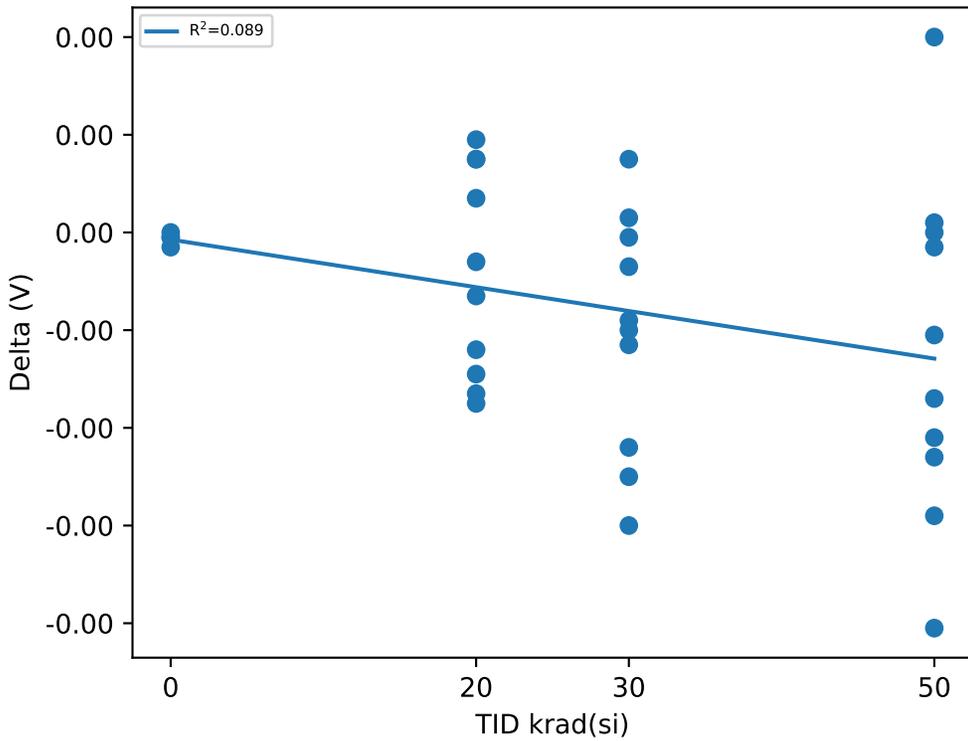
Test Statistics (V)

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
20	0.59979	0.60012	0.60035	0.00023027	0.5995	0.60004	0.60045	0.00032915	-0.00035	-8.4e-05	0.00019	0.00021319
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 6.0 (mV))

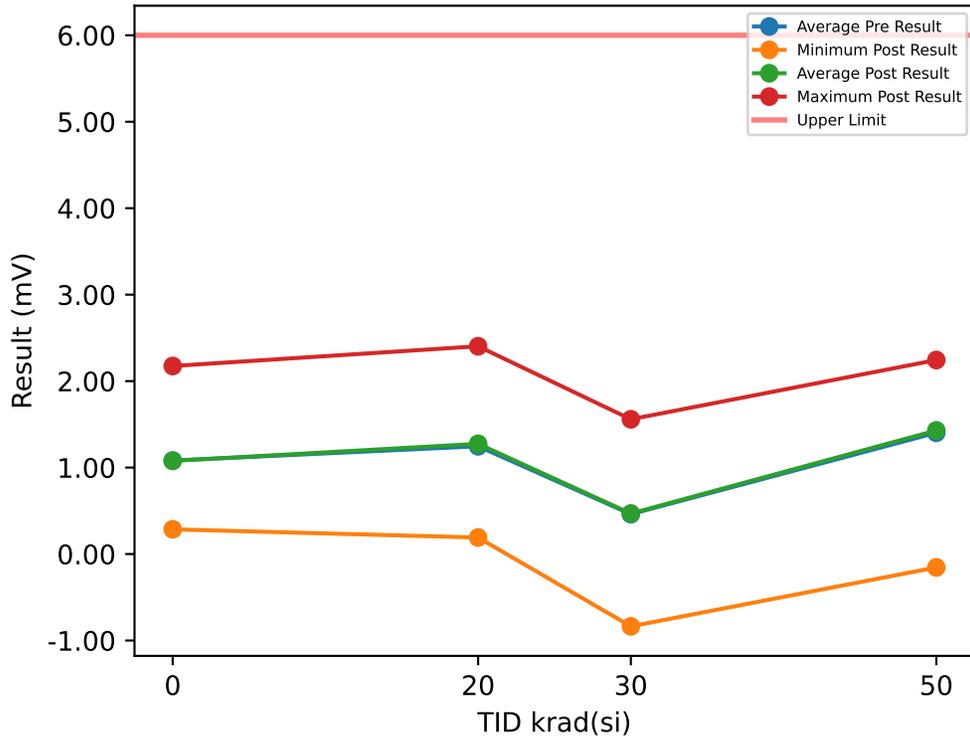| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7557	0.8002	0.0445
22	20	HDR BIAS	1.4075	1.4532	0.0457
23	20	HDR BIAS	0.1577	0.1908	0.0331
24	20	HDR BIAS	2.3556	2.3641	0.0085
25	20	HDR BIAS	0.9601	0.9885	0.0284
26	20	HDR UNBIAS	1.0599	1.094	0.0341
27	20	HDR UNBIAS	0.8326	0.8302	-0.0024
28	20	HDR UNBIAS	2.3458	2.403	0.0572
29	20	HDR UNBIAS	1.1128	1.1405	0.0277
30	20	HDR UNBIAS	1.4765	1.4833	0.0068
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
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)
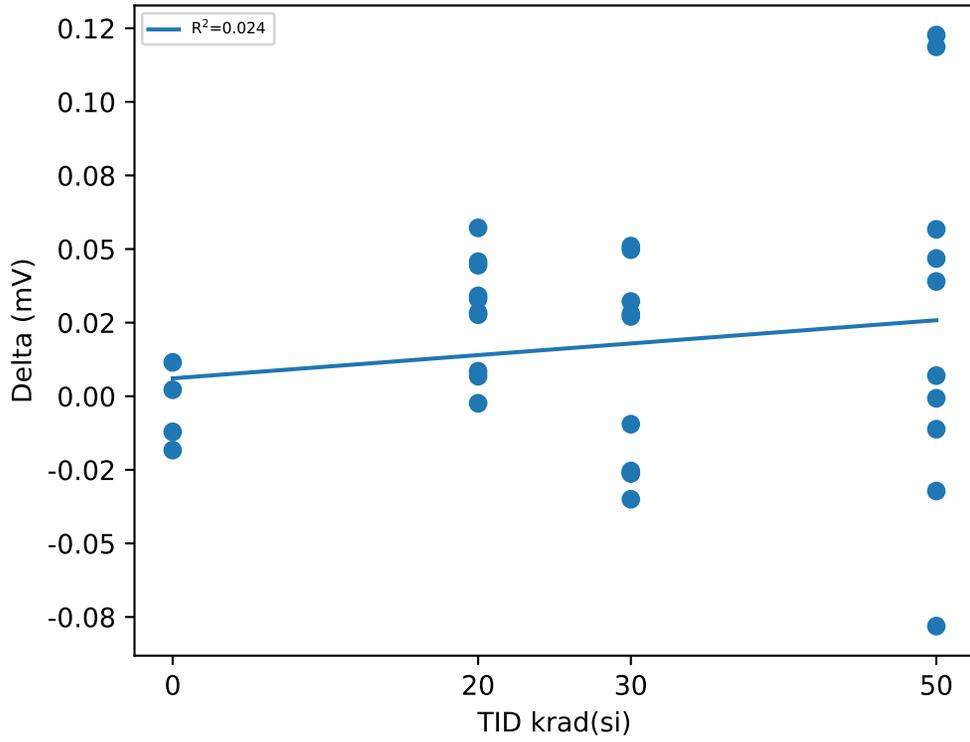
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2835	1.0816	2.1928	0.82554	0.2857	1.0774	2.1745	0.81912	-0.0183	-0.004175	0.0115	0.013524
20	0.1577	1.2464	2.3556	0.68717	0.1908	1.2748	2.403	0.68843	-0.0024	0.02836	0.0572	0.019015
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
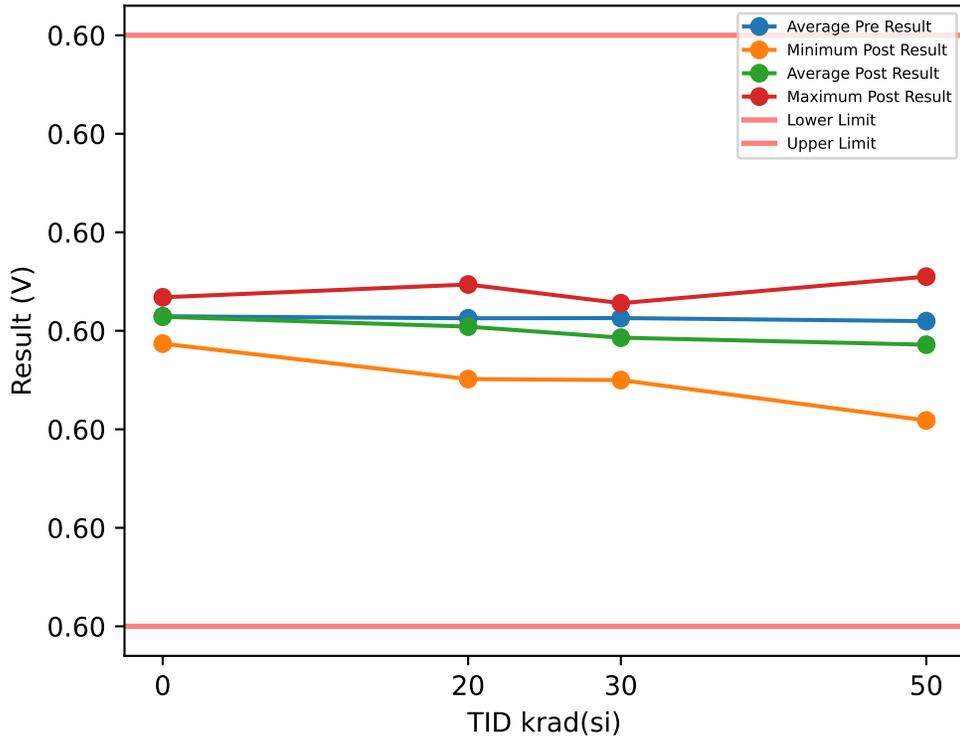
Device Test: 19.31 VOLTAGE|VREF//12/12/0/1000/5/100kHz//@VREF_25C

TID vs Result Stats

Legend: Average Pre Result, Minimum Post Result, Average Post Result, Maximum Post Result, Lower Limit, Upper Limit

Y-axis: Result (V) — X-axis: TID krad(si)

TID vs Post - Pre Exposure Delta

R²=0.087

Y-axis: Delta (V) — X-axis: TID krad(si)

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

| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60028	0.60044	0.00016
22	20	HDR BIAS	0.60036	0.60041	5e-05
23	20	HDR BIAS	0.60003	0.59975	-0.00028
24	20	HDR BIAS	0.60025	0.5999	-0.00035
25	20	HDR BIAS	0.60032	0.60008	-0.00024
26	20	HDR UNBIAS	0.60029	0.60016	-0.00013
27	20	HDR UNBIAS	0.59981	0.59995	0.00014
28	20	HDR UNBIAS	0.59982	0.59975	-7e-05
29	20	HDR UNBIAS	0.60026	0.60047	0.00021
30	20	HDR UNBIAS	0.59985	0.59951	-0.00034
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
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)
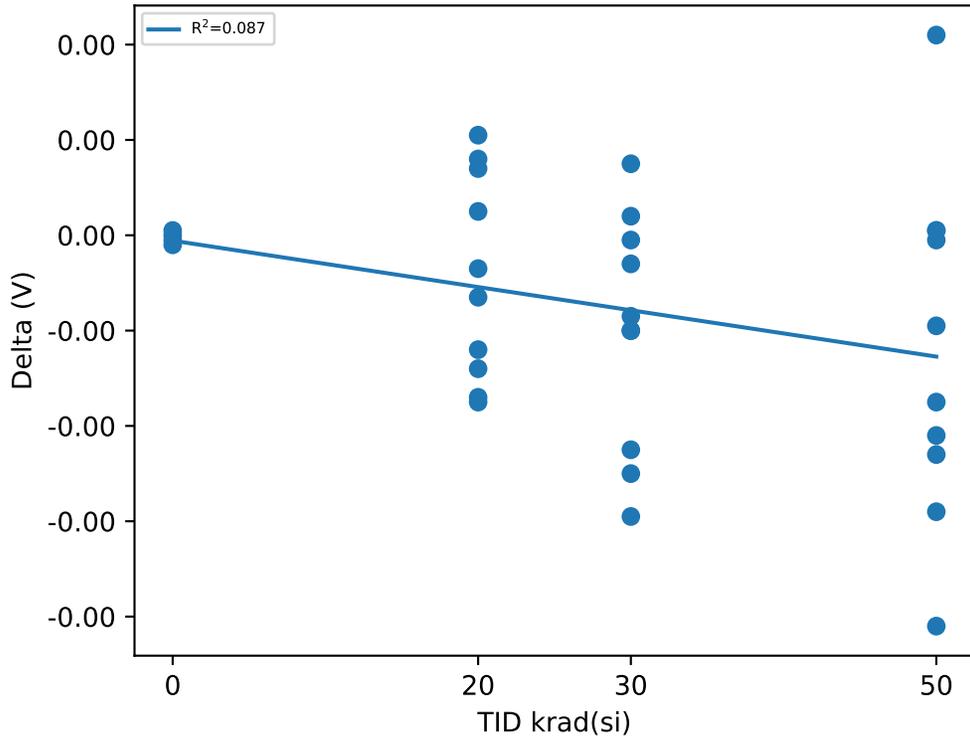
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59987	0.60015	0.60035	0.00021235	0.59987	0.60014	0.60034	0.00020484	-2e-05	-5e-06	1e-05	1.291e-05
20	0.59981	0.60013	0.60036	0.0002249	0.59951	0.60004	0.60047	0.00032907	-0.00035	-8.5e-05	0.00021	0.00021485
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
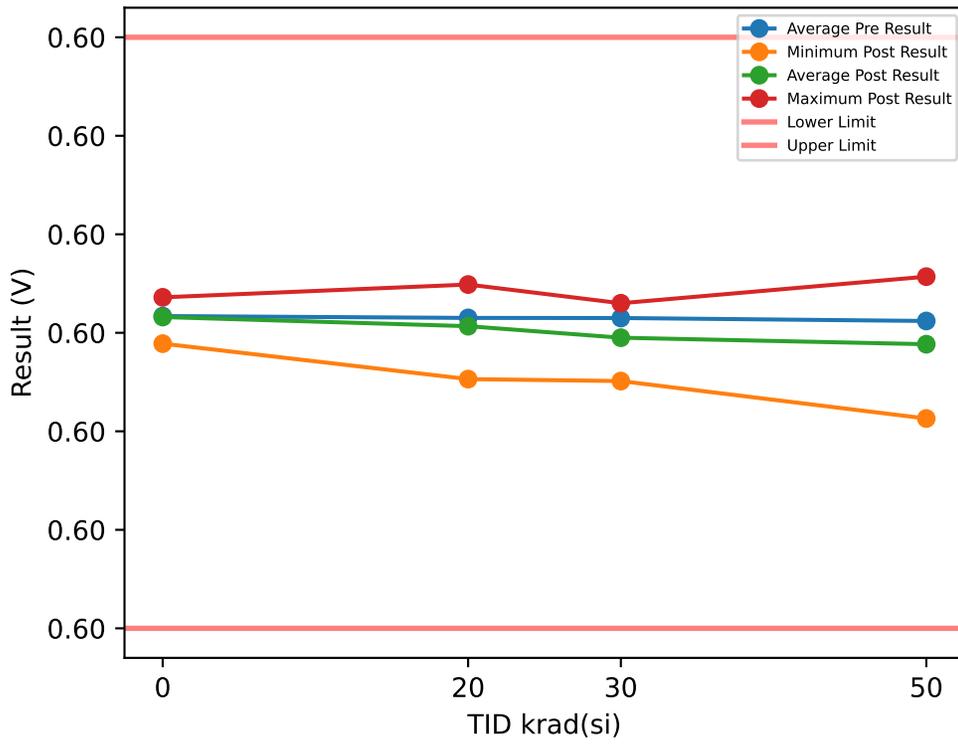
Device Test: 19.33 VOLTAGE|VREF//14/14/0/1000/5/100kHz//@VREF_25C

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

Y-axis: Result (V) — 0.60
X-axis: TID krad(si) — 0, 20, 30, 50

TID vs Post - Pre Exposure Delta

$R^2 = 0.085$

Y-axis: Delta (V) — 0.00
X-axis: TID krad(si) — 0, 20, 30, 50

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60031	0.60046	0.00015
22	20	HDR BIAS	0.60039	0.60043	4e-05
23	20	HDR BIAS	0.60006	0.59978	-0.00028
24	20	HDR BIAS	0.60027	0.59993	-0.00034
25	20	HDR BIAS	0.60034	0.60011	-0.00023
26	20	HDR UNBIAS	0.60031	0.60019	-0.00012
27	20	HDR UNBIAS	0.59982	0.59997	0.00015
28	20	HDR UNBIAS	0.59985	0.59978	-7e-05
29	20	HDR UNBIAS	0.60029	0.60049	0.0002
30	20	HDR UNBIAS	0.59987	0.59953	-0.00034
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
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)
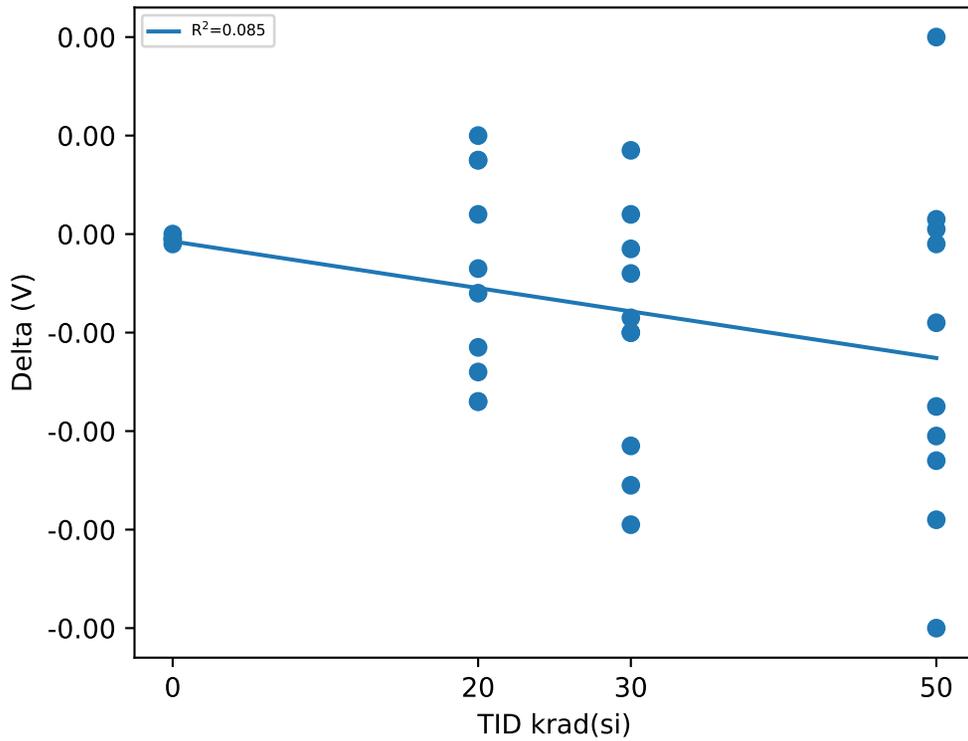
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59989	0.60017	0.60037	0.00021166	0.59989	0.60016	0.60036	0.00020543	-2e-05	-1e-05	0	8.165e-06
20	0.59982	0.60015	0.60039	0.00022713	0.59953	0.60007	0.60049	0.00032718	-0.00034	-8.4e-05	0.0002	0.00021025
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
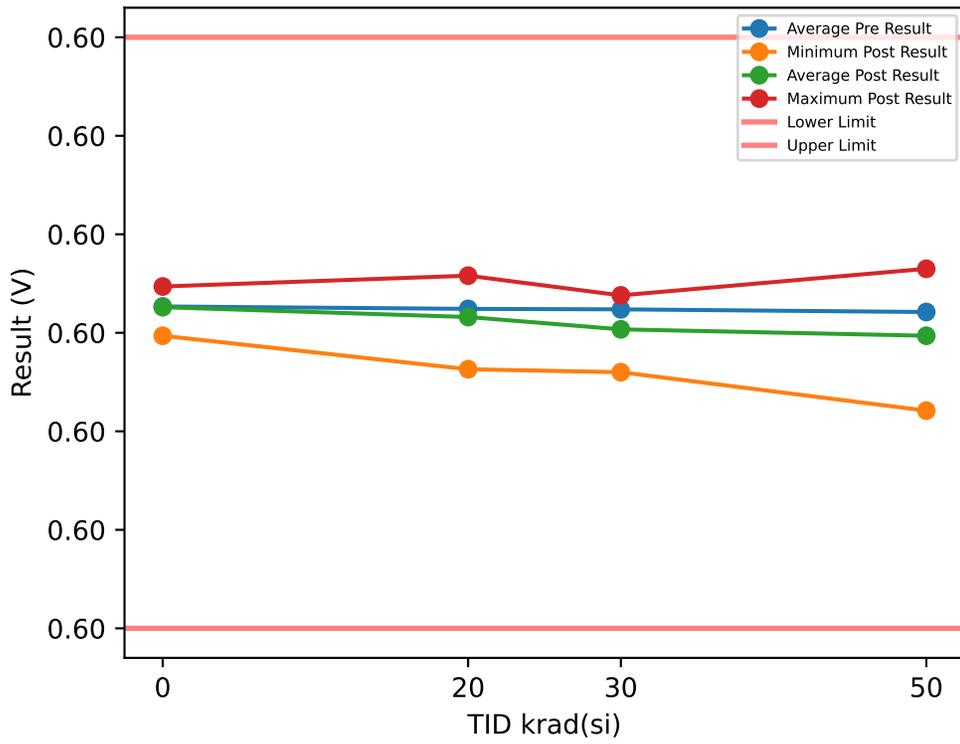
Device Test: 19.35 VOLTAGE|VREF//12/12/0/1000/5/500kHz//@VREF_25C

## 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
21	20	HDR BIAS	0.6004	0.60055	0.00015
22	20	HDR BIAS	0.60048	0.60053	5e-05
23	20	HDR BIAS	0.60014	0.59987	-0.00027
24	20	HDR BIAS	0.60036	0.60002	-0.00034
25	20	HDR BIAS	0.60043	0.6002	-0.00023
26	20	HDR UNBIAS	0.6004	0.60027	-0.00013
27	20	HDR UNBIAS	0.59994	0.60008	0.00014
28	20	HDR UNBIAS	0.59993	0.59987	-6e-05
29	20	HDR UNBIAS	0.60038	0.60058	0.0002
30	20	HDR UNBIAS	0.59997	0.59963	-0.00034
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
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)
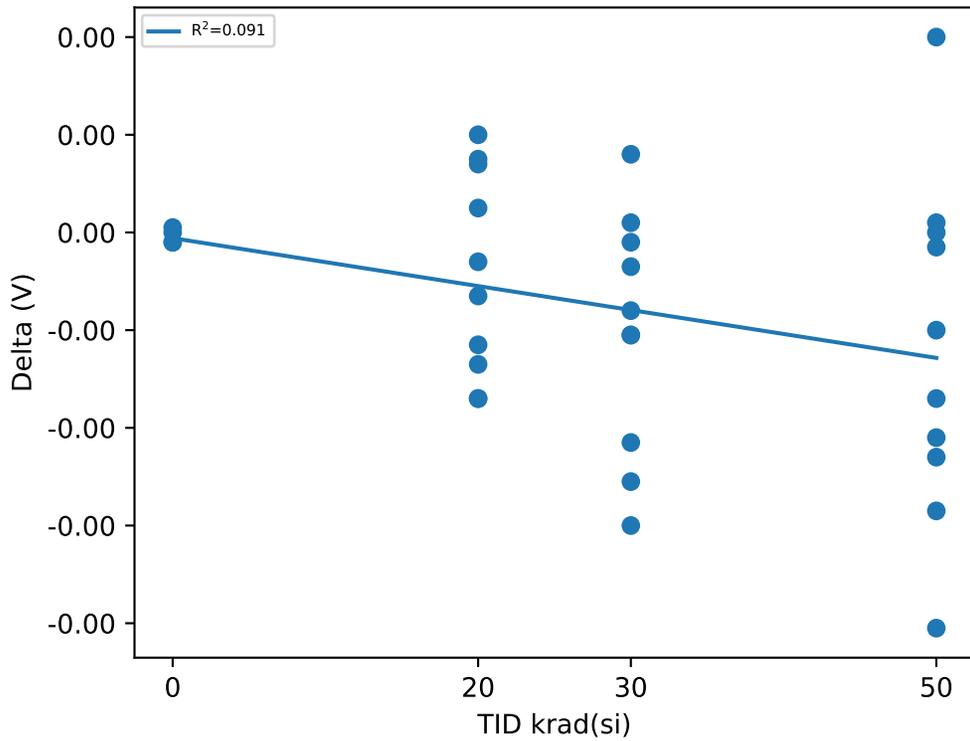
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59999	0.60027	0.60047	0.00021515	0.59997	0.60026	0.60047	0.00021924	-2e-05	-7.5e-06	1e-05	1.5e-05
20	0.59993	0.60024	0.60048	0.00022306	0.59963	0.60016	0.60058	0.00032561	-0.00034	-8.3e-05	0.0002	0.00020902
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
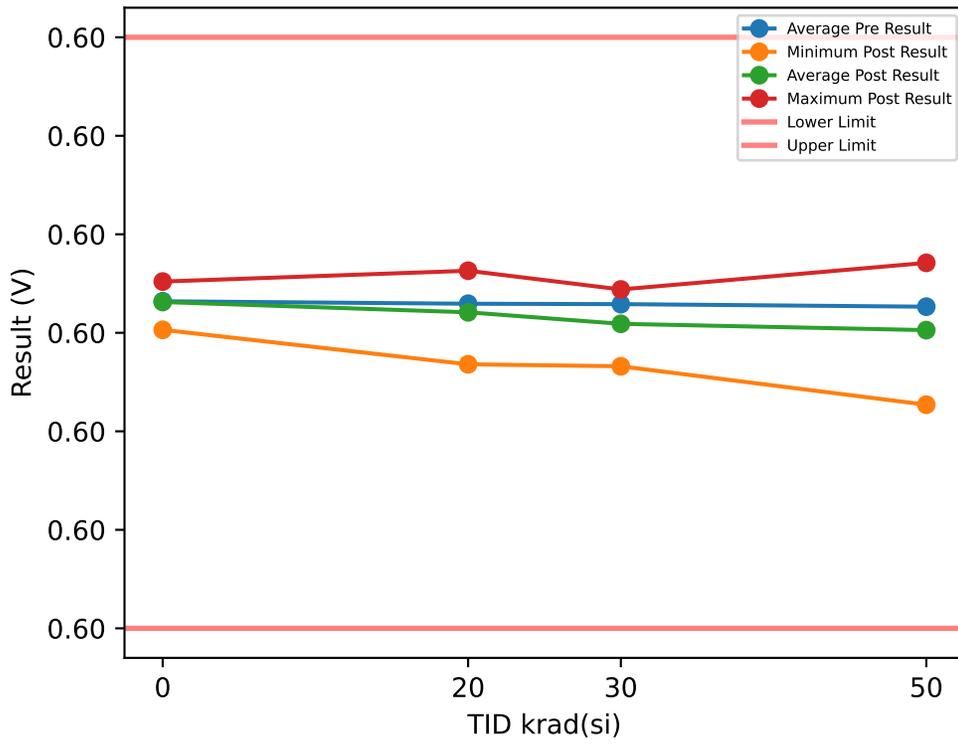
Device Test: 19.37 VOLTAGE|VREF//14/14/0/1000/5/500kHz//@VREF_25C

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
21	20	HDR BIAS	0.60045	0.60061	0.00016
22	20	HDR BIAS	0.60053	0.60059	6e-05
23	20	HDR BIAS	0.60019	0.59992	-0.00027
24	20	HDR BIAS	0.60042	0.60006	-0.00036
25	20	HDR BIAS	0.60047	0.60024	-0.00023
26	20	HDR UNBIAS	0.60046	0.60032	-0.00014
27	20	HDR UNBIAS	0.59999	0.60012	0.00013
28	20	HDR UNBIAS	0.59997	0.59991	-6e-05
29	20	HDR UNBIAS	0.60044	0.60063	0.00019
30	20	HDR UNBIAS	0.60003	0.59968	-0.00035
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
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)
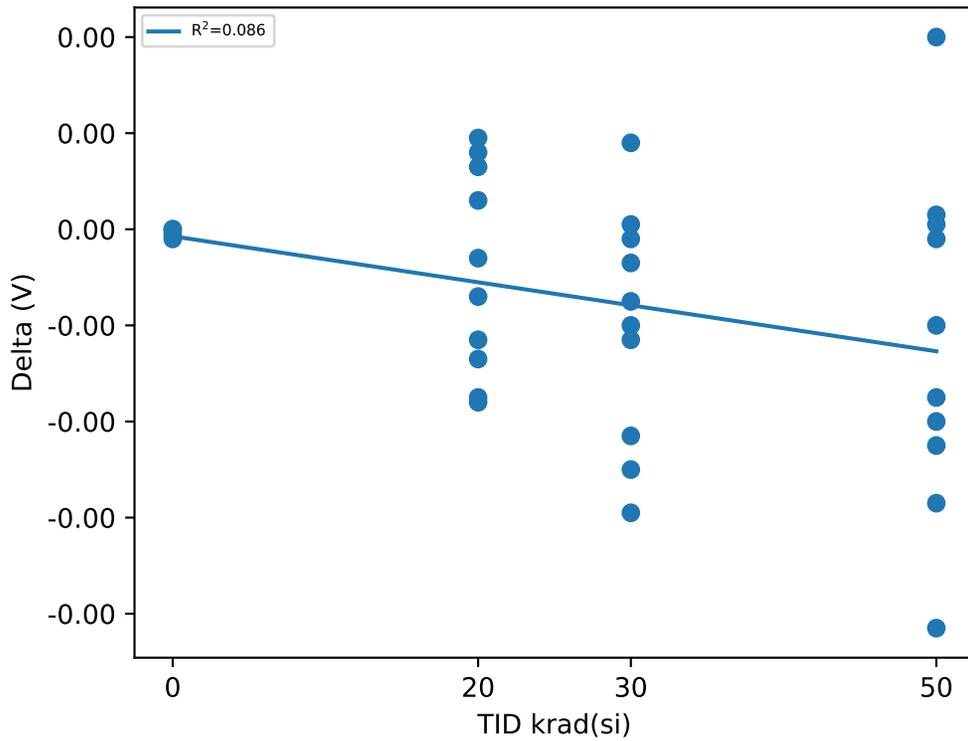
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.60004	0.60032	0.60052	0.00021726	0.60003	0.60031	0.60052	0.00021747	-2e-05	-7.5e-06	0	9.5743e-06
20	0.59997	0.6003	0.60053	0.00022451	0.59968	0.60021	0.60063	0.00032988	-0.00036	-8.7e-05	0.00019	0.00021281
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

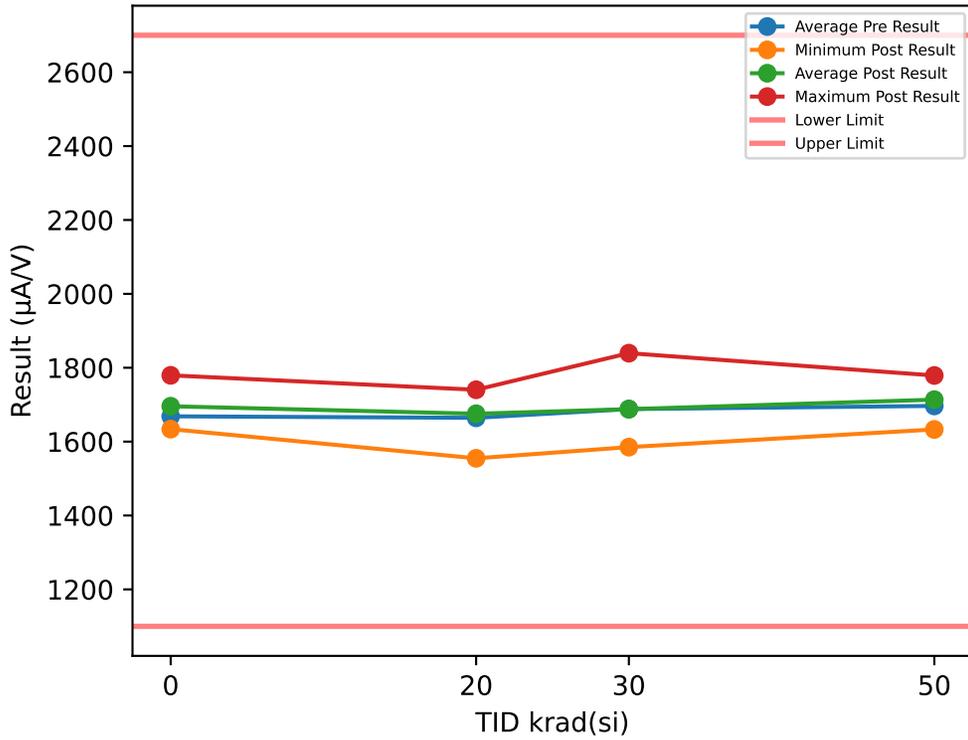| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1569.8	1569.6	-0.1689
22	20	HDR BIAS	1615.2	1650.7	35.509
23	20	HDR BIAS	1633.9	1685.8	51.855
24	20	HDR BIAS	1703.3	1702.4	-0.9161
25	20	HDR BIAS	1683.2	1703.2	20
26	20	HDR UNBIAS	1799.1	1740.4	-58.753
27	20	HDR UNBIAS	1601.1	1554.8	-46.304
28	20	HDR UNBIAS	1683.2	1739.4	56.271
29	20	HDR UNBIAS	1721.8	1740.2	18.421
30	20	HDR UNBIAS	1633.8	1667.9	34.052
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
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)
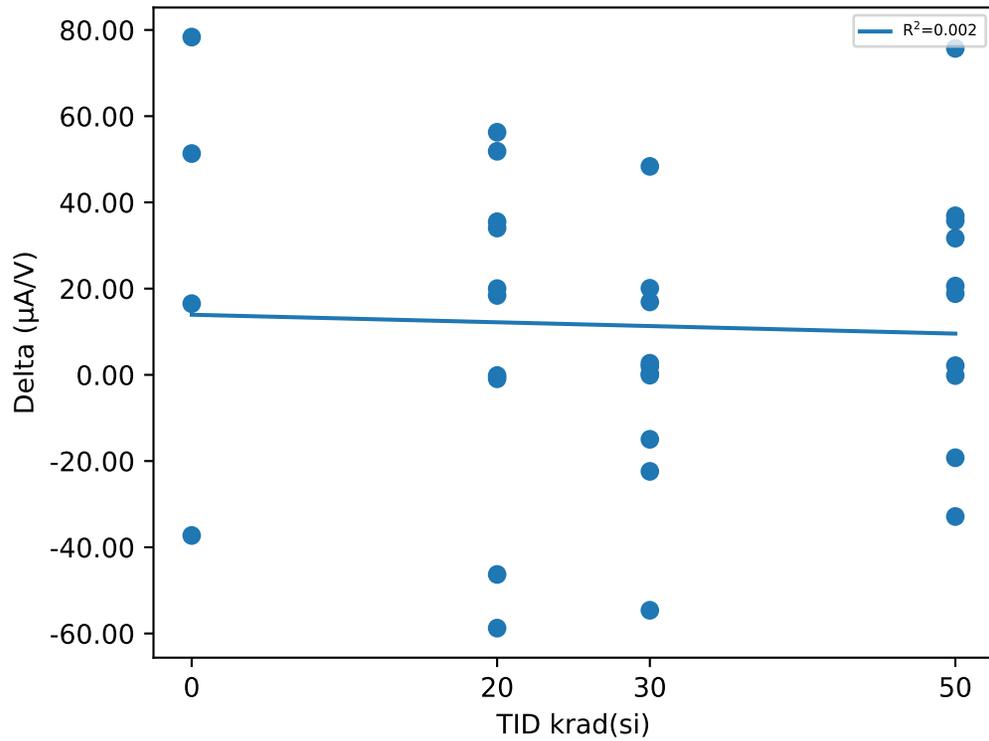
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1617.3	1668.5	1721.8	50.707	1633.8	1695.8	1779.4	60.75	-37.263	27.232	78.347	49.893
20	1569.8	1664.4	1799.1	67.426	1554.8	1675.4	1740.4	67.109	-58.753	10.997	56.271	38.59
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

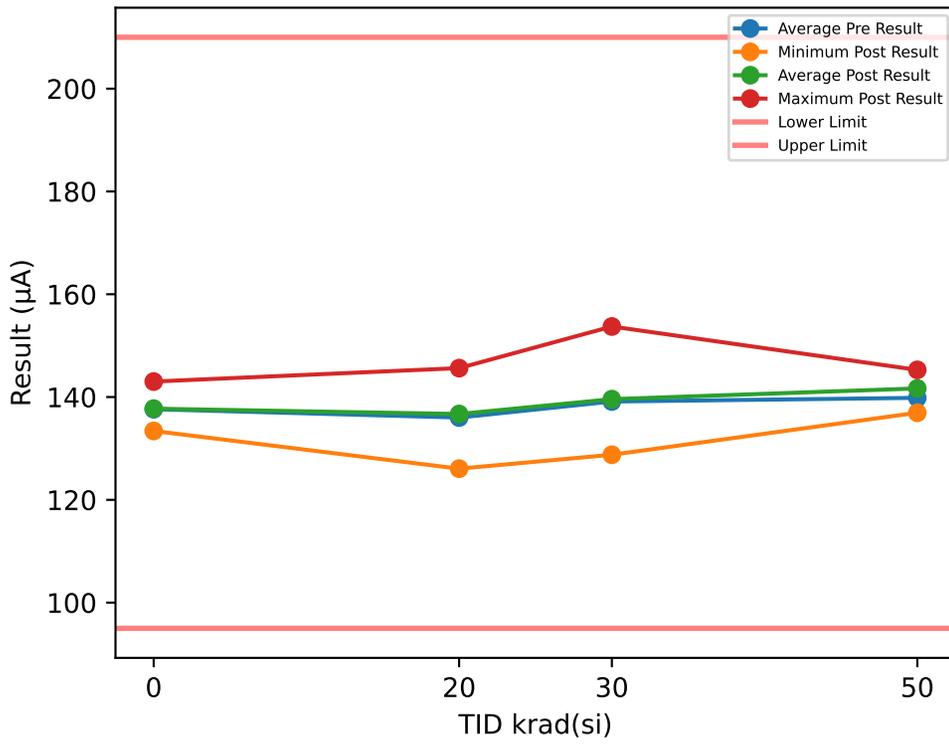| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	129.6	129.56	-0.0402
22	20	HDR BIAS	132.53	135.23	2.6972
23	20	HDR BIAS	134.85	134.82	-0.0252
24	20	HDR BIAS	138.89	141	2.1053
25	20	HDR BIAS	135.8	138.07	2.2751
26	20	HDR UNBIAS	145.56	145.63	0.0639
27	20	HDR UNBIAS	128.03	126.07	-1.9611
28	20	HDR UNBIAS	140.16	140.37	0.2054
29	20	HDR UNBIAS	138.4	137.82	-0.5763
30	20	HDR UNBIAS	136.29	138.44	2.1561
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
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)
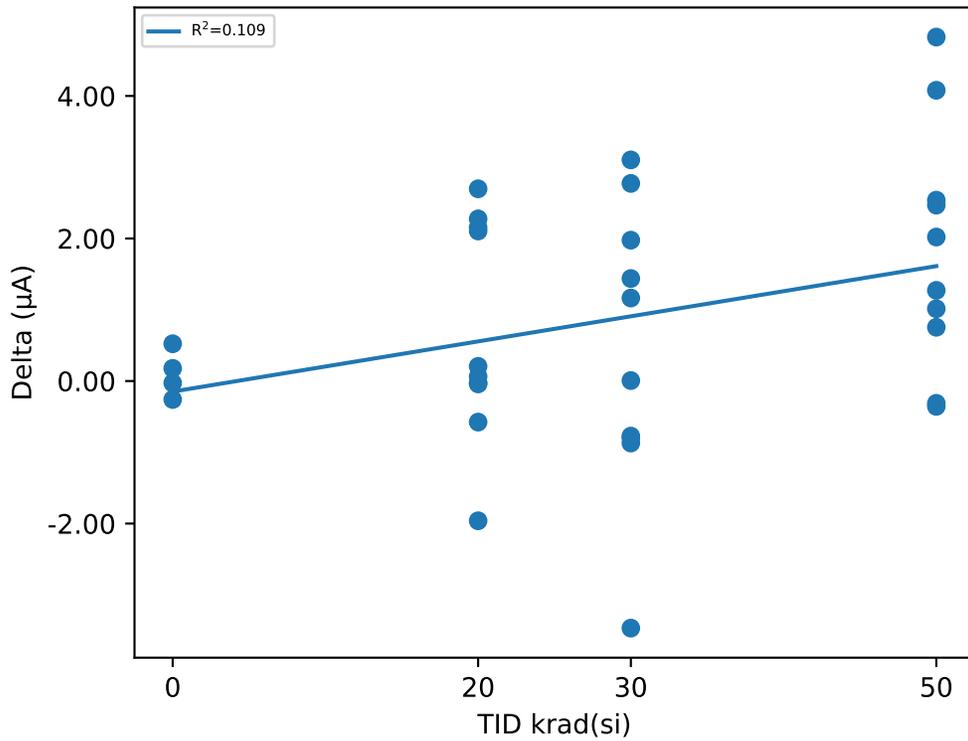
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	133.43	137.64	142.49	3.8673	133.4	137.74	143.01	4.0586	-0.2591	0.10337	0.5226	0.33156
20	128.03	136.01	145.56	5.1746	126.07	136.7	145.63	5.6534	-1.9611	0.69002	2.6972	1.5274
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta


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

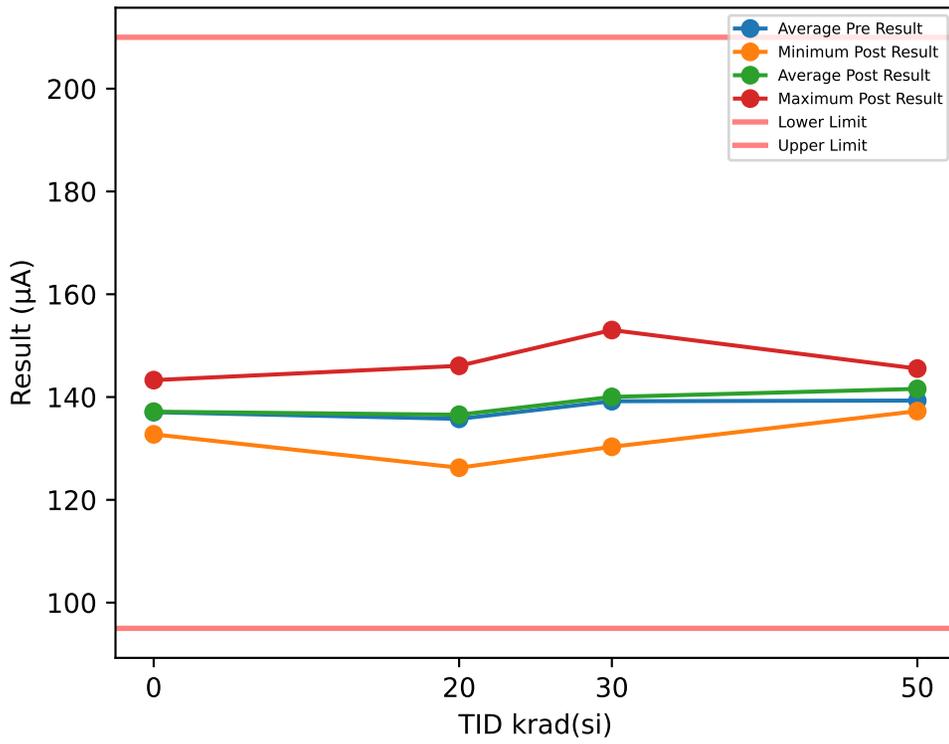| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	129.33	128.81	-0.517
22	20	HDR BIAS	132.29	134.79	2.5033
23	20	HDR BIAS	135.62	135.57	-0.0514
24	20	HDR BIAS	138.53	141.29	2.7541
25	20	HDR BIAS	134.96	137.36	2.4036
26	20	HDR UNBIAS	145.52	146.07	0.5489
27	20	HDR UNBIAS	128.42	126.25	-2.1702
28	20	HDR UNBIAS	139.45	139.81	0.3598
29	20	HDR UNBIAS	137.98	136.95	-1.0283
30	20	HDR UNBIAS	135.42	138.67	3.2437
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
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)
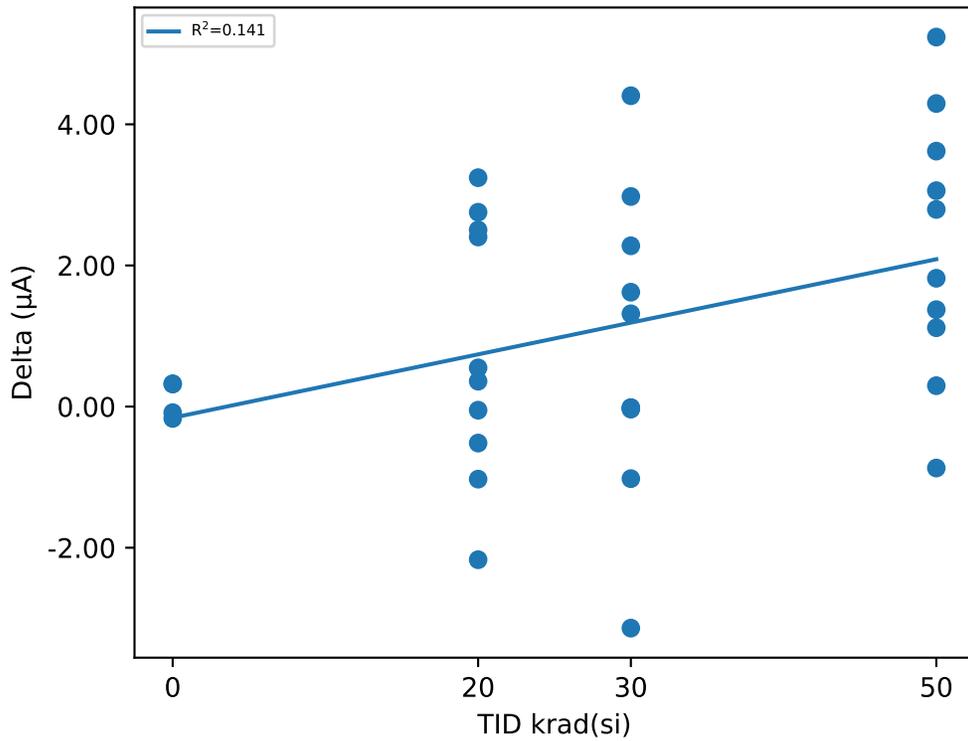
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	132.91	137.06	142.97	4.3445	132.74	137.15	143.29	4.5678	-0.1677	0.09725	0.322	0.26081
20	128.42	135.75	145.52	5.0511	126.25	136.56	146.07	5.7644	-2.1702	0.80465	3.2437	1.8301
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 25.0 (nA))

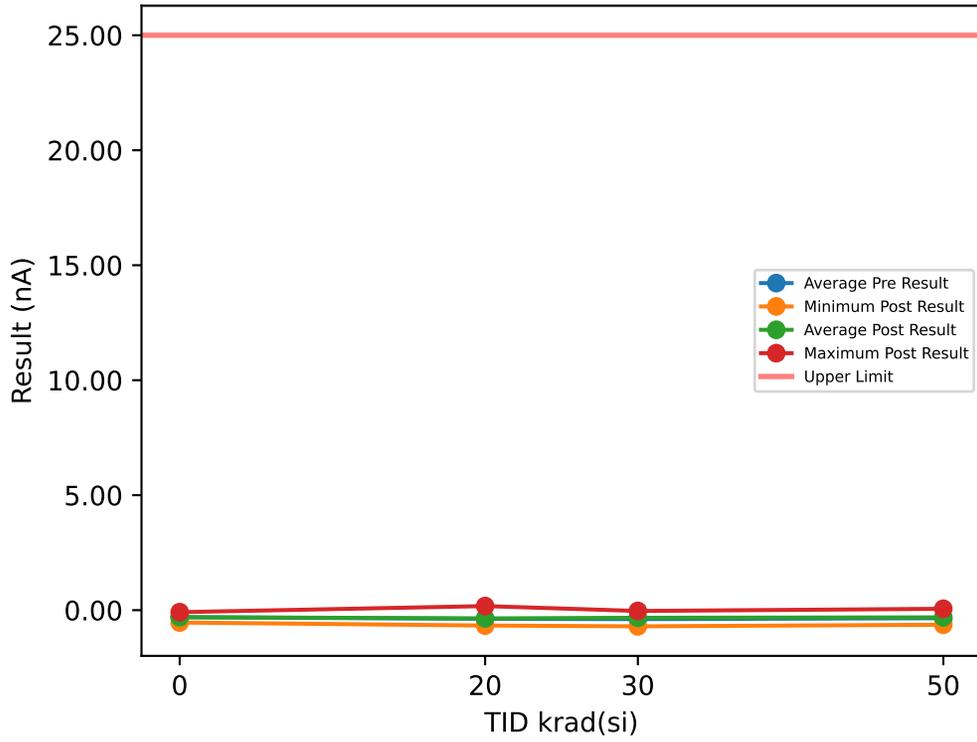| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	-0.3994	-0.4369	-0.0375
22	20	HDR BIAS	-0.4967	-0.6682	-0.1715
23	20	HDR BIAS	-0.2434	-0.3621	-0.1187
24	20	HDR BIAS	-0.2902	-0.4266	-0.1364
25	20	HDR BIAS	-0.5592	-0.0936	0.4656
26	20	HDR UNBIAS	-0.2839	-0.5839	-0.3
27	20	HDR UNBIAS	-0.284	0.1779	0.4619
28	20	HDR UNBIAS	-0.6123	-0.3674	0.2449
29	20	HDR UNBIAS	-0.3495	-0.2652	0.0843
30	20	HDR UNBIAS	-0.2434	-0.5496	-0.3062
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
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)
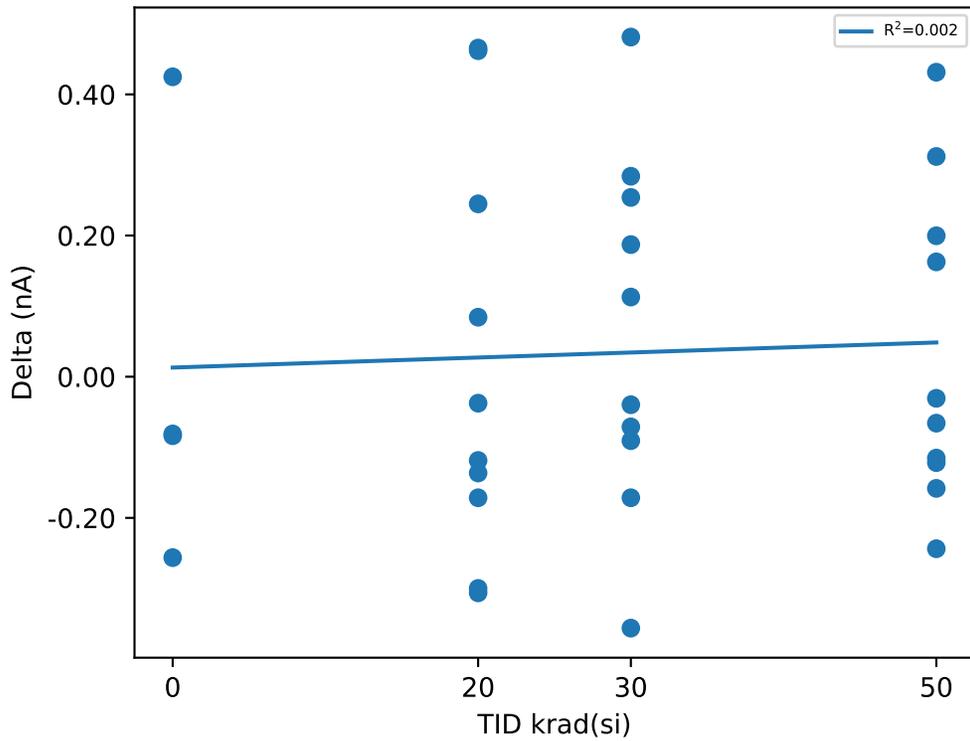
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.5123	-0.30593	-0.1966	0.14183	-0.5371	-0.30495	-0.0874	0.1845	-0.2563	0.000975	0.4249	0.29427
20	-0.6123	-0.3762	-0.2434	0.13527	-0.6682	-0.35756	0.1779	0.2496	-0.3062	0.01864	0.4656	0.28694
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
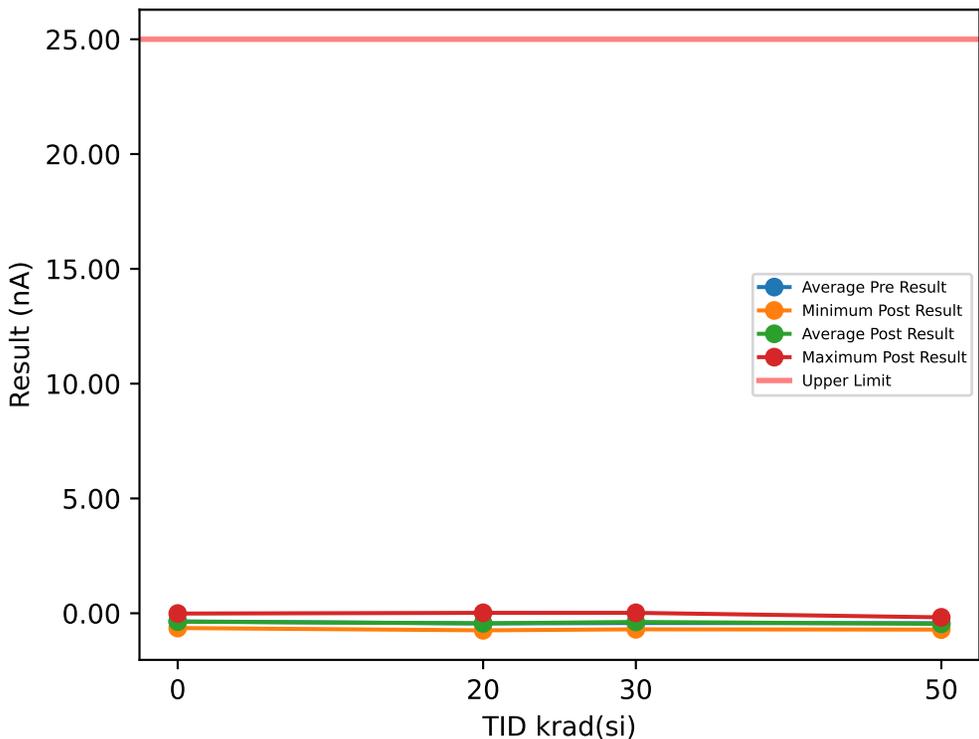
Device Test: 19.43 CURRENT|EA//8/8/0/0/5/100kHz//@EA_IB

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
21	20	HDR BIAS	-0.415	-0.206	0.209
22	20	HDR BIAS	-0.528	-0.7432	-0.2152
23	20	HDR BIAS	-0.3869	0.0187	0.4056
24	20	HDR BIAS	-0.3901	-0.4484	-0.0583
25	20	HDR BIAS	-0.528	-0.518	0.01
26	20	HDR UNBIAS	-0.4556	-0.5558	-0.1002
27	20	HDR UNBIAS	-0.44	-0.4463	-0.0063
28	20	HDR UNBIAS	-0.4811	-0.467	0.0141
29	20	HDR UNBIAS	-0.4181	-0.4088	0.0093
30	20	HDR UNBIAS	-0.3651	-0.6339	-0.2688
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
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)
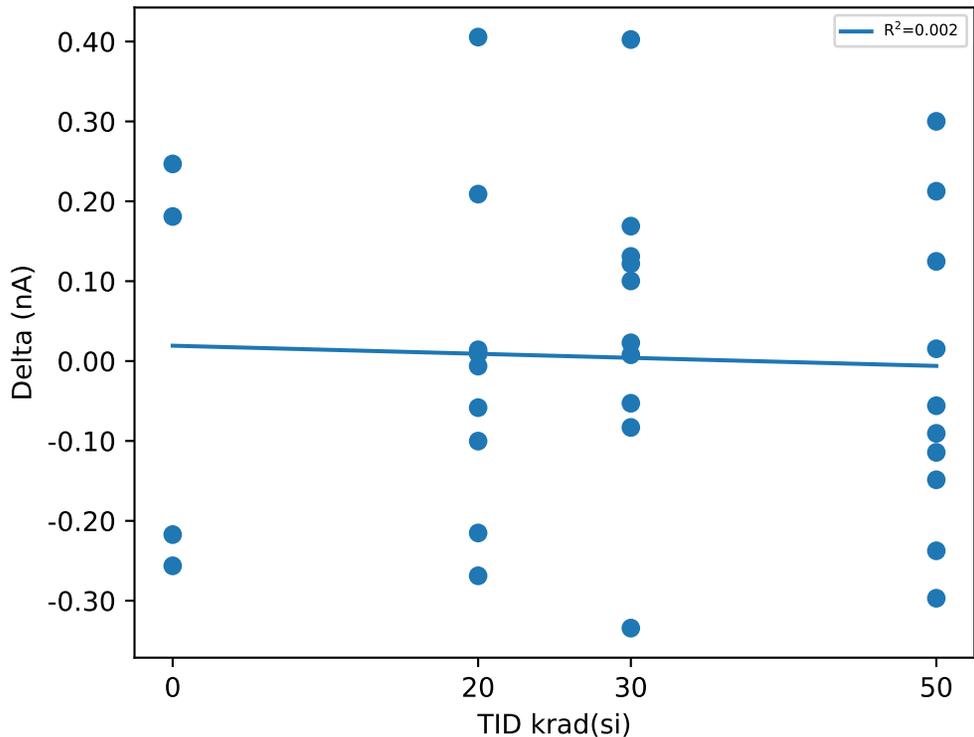
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.415	-0.35423	-0.2593	0.06776	-0.6432	-0.36565	-0.0125	0.29554	-0.2563	-0.011425	0.2468	0.26205
20	-0.528	-0.44079	-0.3651	0.057192	-0.7432	-0.44087	0.0187	0.21499	-0.2688	-8e-05	0.4056	0.19454
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

Device Test: 19.44 VOLTAGE|VREF//8/8/0/0/5/100kHz//@VREF_25C
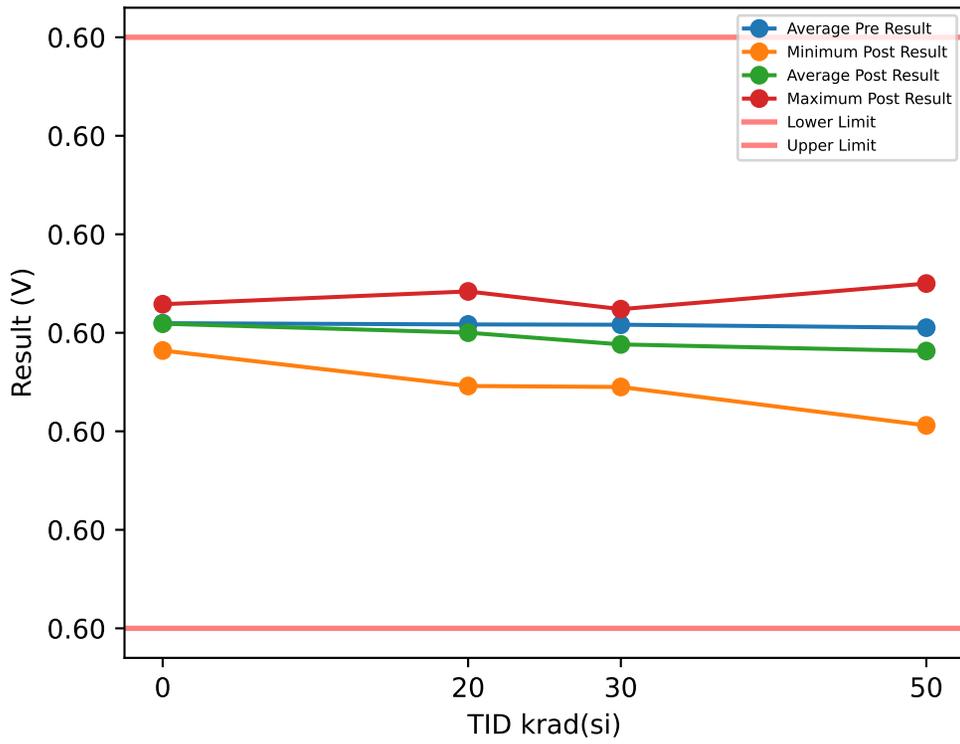
TID vs Result Stats

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
21	20	HDR BIAS	0.60024	0.6004	0.00016
22	20	HDR BIAS	0.60033	0.60039	6e-05
23	20	HDR BIAS	0.59999	0.59972	-0.00027
24	20	HDR BIAS	0.60021	0.59986	-0.00035
25	20	HDR BIAS	0.60028	0.60004	-0.00024
26	20	HDR UNBIAS	0.60025	0.60011	-0.00014
27	20	HDR UNBIAS	0.59976	0.59989	0.00013
28	20	HDR UNBIAS	0.59978	0.59972	-6e-05
29	20	HDR UNBIAS	0.60022	0.60042	0.0002
30	20	HDR UNBIAS	0.59979	0.59946	-0.00033
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
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)
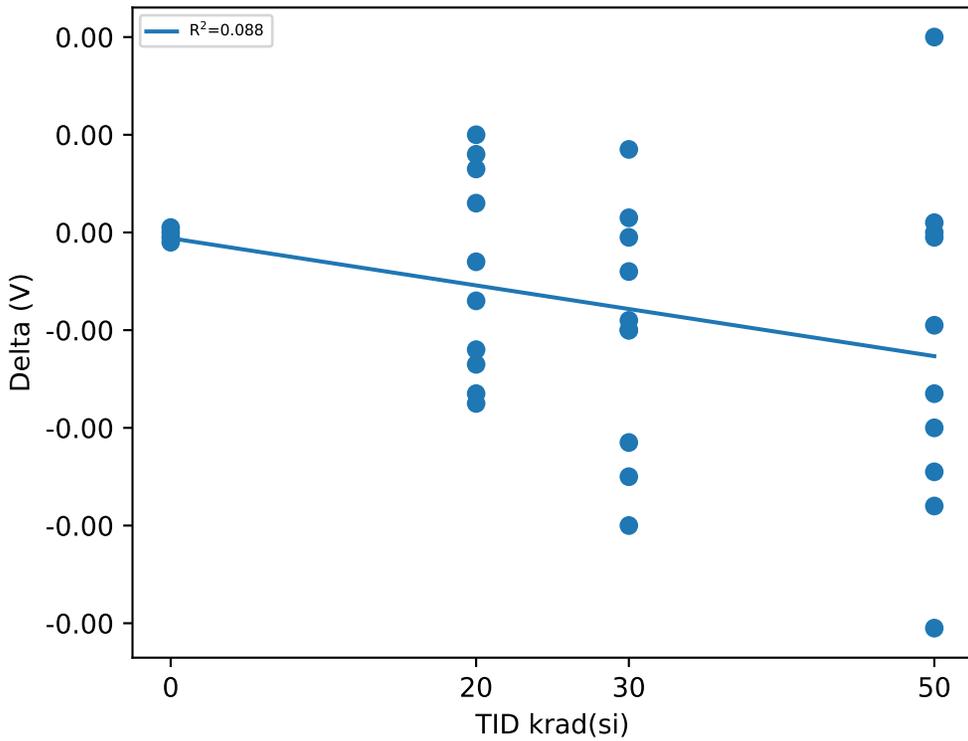
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59982	0.6001	0.6003	0.00021235	0.59982	0.60009	0.60029	0.00020484	-2e-05	-5e-06	1e-05	1.291e-05
20	0.59976	0.60008	0.60033	0.00023042	0.59946	0.6	0.60042	0.00033037	-0.00035	-8.4e-05	0.0002	0.00021099
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
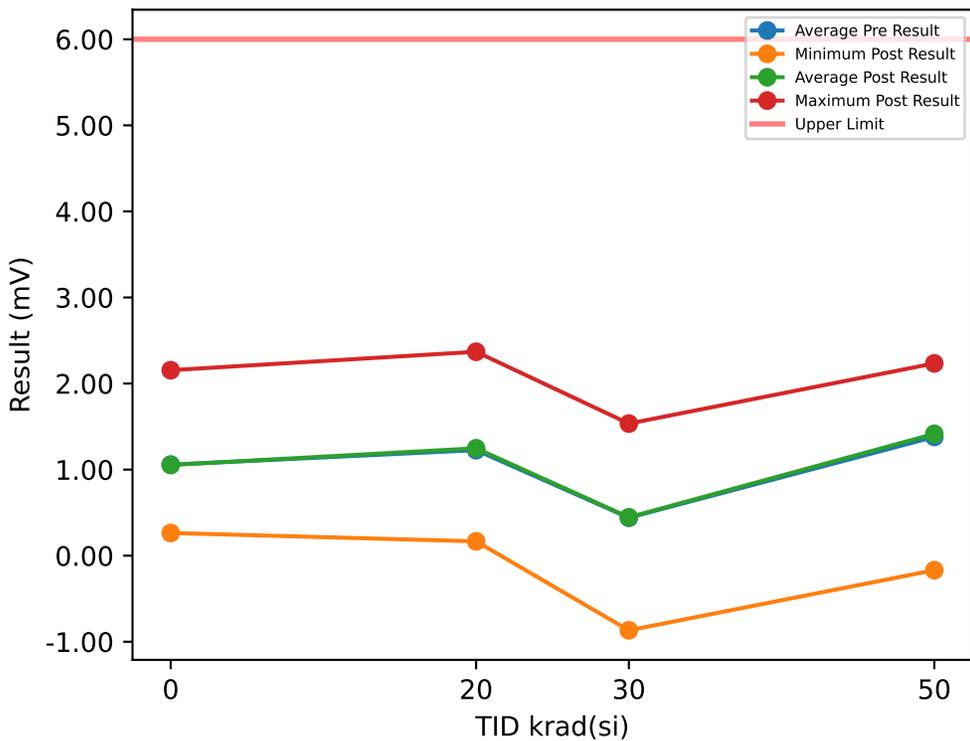
Device Test: 19.46 VOLTAGE|OFFSET//8/8/0/0/5/100kHz//@EA_OS

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7271	0.7786	0.0515
22	20	HDR BIAS	1.3891	1.4176	0.0285
23	20	HDR BIAS	0.1363	0.1663	0.03
24	20	HDR BIAS	2.3413	2.3318	-0.0095
25	20	HDR BIAS	0.9434	0.9774	0.034
26	20	HDR UNBIAS	1.0327	1.0632	0.0305
27	20	HDR UNBIAS	0.8158	0.7985	-0.0173
28	20	HDR UNBIAS	2.3409	2.3689	0.028
29	20	HDR UNBIAS	1.0868	1.1147	0.0279
30	20	HDR UNBIAS	1.448	1.4606	0.0126
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
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)
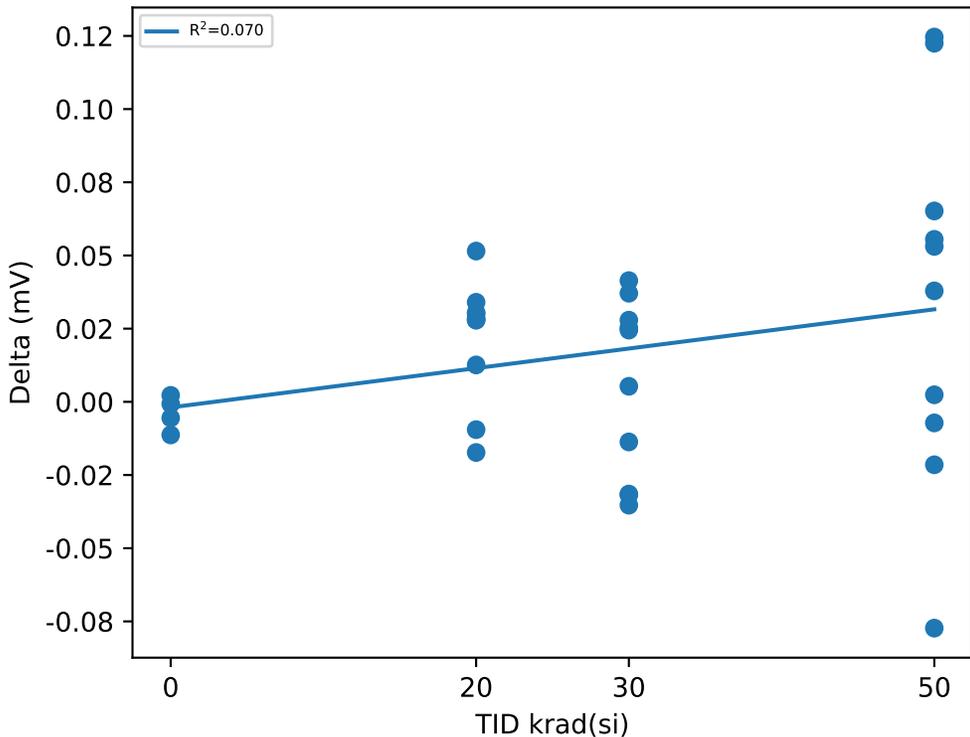
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2691	1.0577	2.1526	0.81477	0.2636	1.0538	2.1548	0.81937	-0.0113	-0.003825	0.0022	0.005909
20	0.1363	1.2261	2.3413	0.69154	0.1663	1.2478	2.3689	0.68497	-0.0173	0.02162	0.0515	0.020783
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

Device Test: 19.47 VOLTAGE|VREF//8/8/0/0/5/500kHz//@VREF_25C
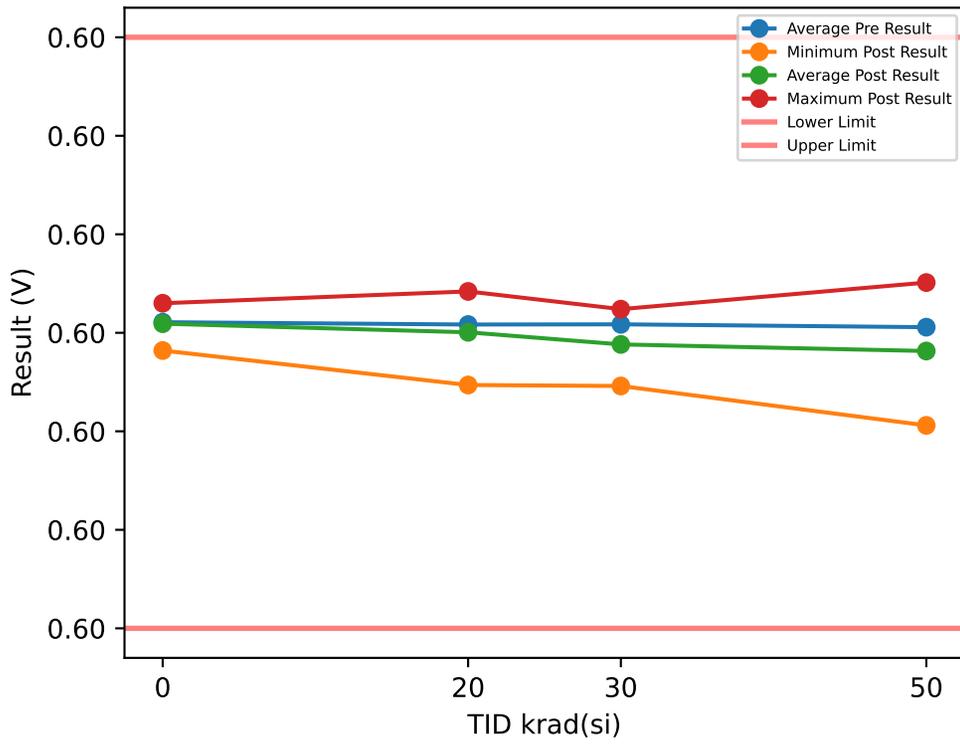
TID vs Result Stats


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
21	20	HDR BIAS	0.60024	0.60041	0.00017
22	20	HDR BIAS	0.60031	0.60039	8e-05
23	20	HDR BIAS	0.59999	0.59971	-0.00028
24	20	HDR BIAS	0.60021	0.59987	-0.00034
25	20	HDR BIAS	0.60028	0.60003	-0.00025
26	20	HDR UNBIAS	0.60026	0.60012	-0.00014
27	20	HDR UNBIAS	0.59975	0.59991	0.00016
28	20	HDR UNBIAS	0.59978	0.59972	-6e-05
29	20	HDR UNBIAS	0.60023	0.60042	0.00019
30	20	HDR UNBIAS	0.59979	0.59947	-0.00032
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
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)
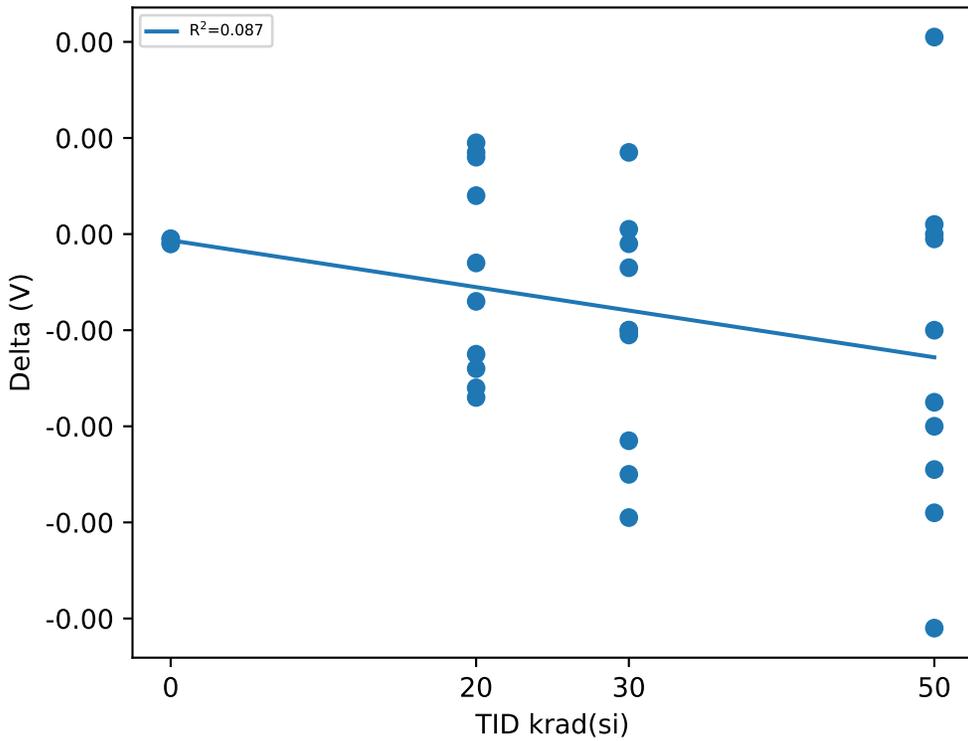
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59983	0.60011	0.60032	0.00021376	0.59982	0.60009	0.6003	0.00020871	-2e-05	-1.5e-05	-1e-05	5.7735e-06
20	0.59975	0.60008	0.60031	0.00023124	0.59947	0.60001	0.60042	0.00032999	-0.00034	-7.9e-05	0.00019	0.00021517
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
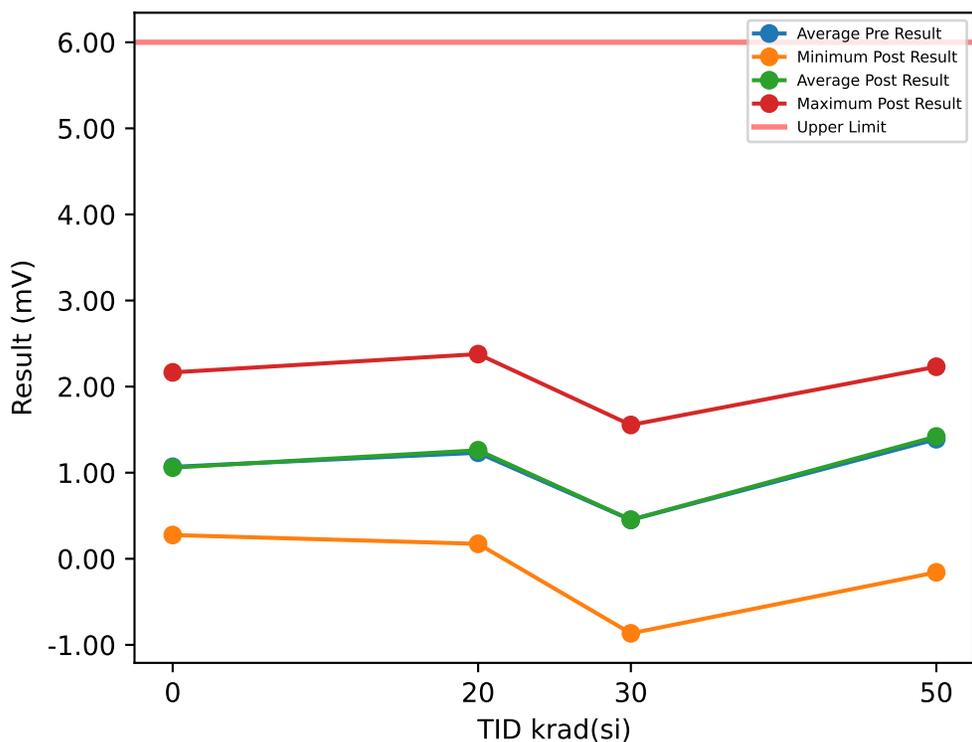
Device Test: 19.49 VOLTAGE|OFFSET//8/8/0/0/5/500kHz//@EA_OS

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 6.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.7363	0.7929	0.0566
22	20	HDR BIAS	1.389	1.4467	0.0577
23	20	HDR BIAS	0.1421	0.1736	0.0315
24	20	HDR BIAS	2.3425	2.3438	0.0013
25	20	HDR BIAS	0.9482	0.9819	0.0337
26	20	HDR UNBIAS	1.0472	1.0789	0.0317
27	20	HDR UNBIAS	0.8119	0.8183	0.0064
28	20	HDR UNBIAS	2.3396	2.3775	0.0379
29	20	HDR UNBIAS	1.1009	1.1244	0.0235
30	20	HDR UNBIAS	1.4579	1.4711	0.0132
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
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)
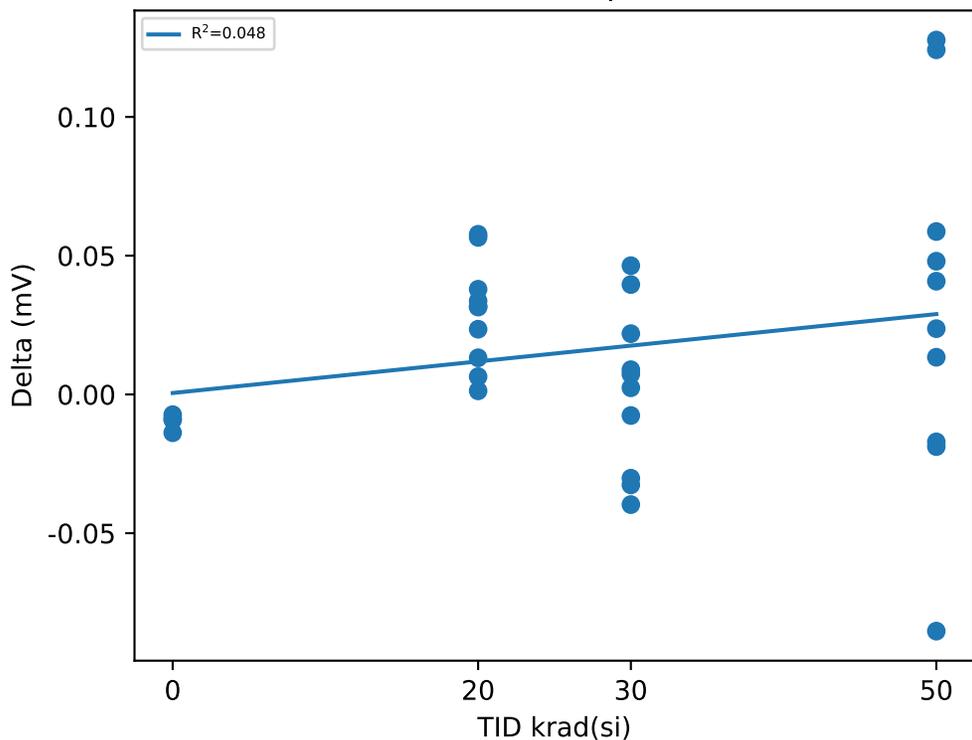
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.2833	1.0683	2.1743	0.82053	0.276	1.0585	2.1651	0.82072	-0.0138	-0.00975	-0.0073	0.0028172
20	0.1421	1.2316	2.3425	0.68941	0.1736	1.2609	2.3775	0.68515	0.0013	0.02935	0.0577	0.019023
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

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

TID vs Result Stats


TID vs Post - Pre Exposure Delta

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

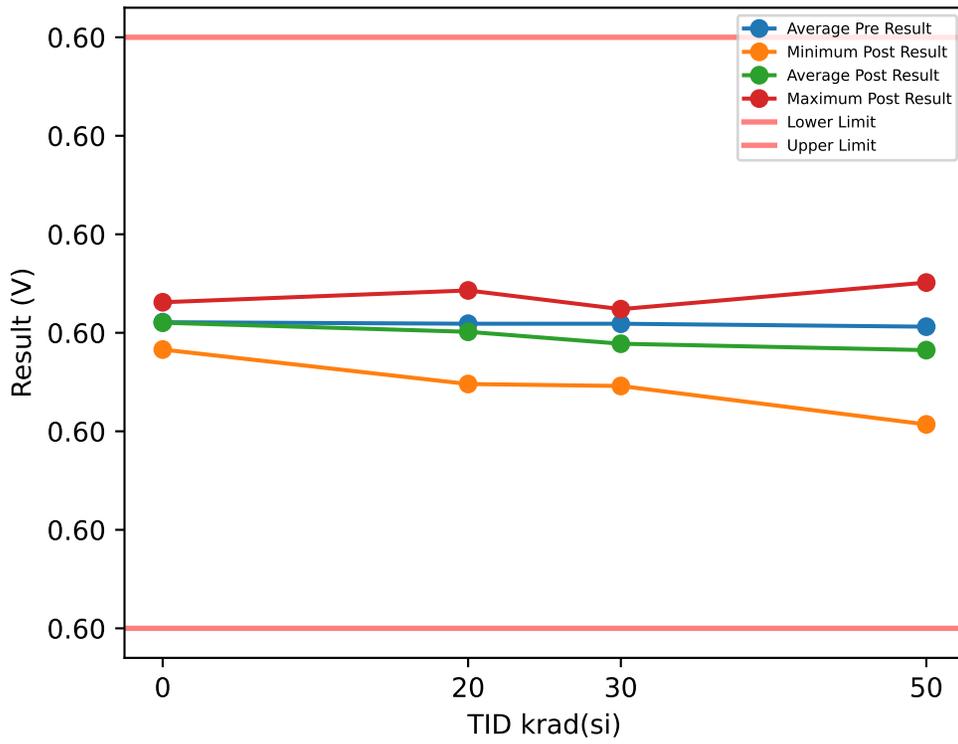| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60024	0.60041	0.00017
22	20	HDR BIAS	0.60034	0.60038	4e-05
23	20	HDR BIAS	0.6	0.59971	-0.00029
24	20	HDR BIAS	0.60022	0.59988	-0.00034
25	20	HDR BIAS	0.60028	0.60005	-0.00023
26	20	HDR UNBIAS	0.60026	0.60013	-0.00013
27	20	HDR UNBIAS	0.59977	0.59991	0.00014
28	20	HDR UNBIAS	0.59979	0.59972	-7e-05
29	20	HDR UNBIAS	0.60022	0.60043	0.00021
30	20	HDR UNBIAS	0.5998	0.59948	-0.00032
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
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)
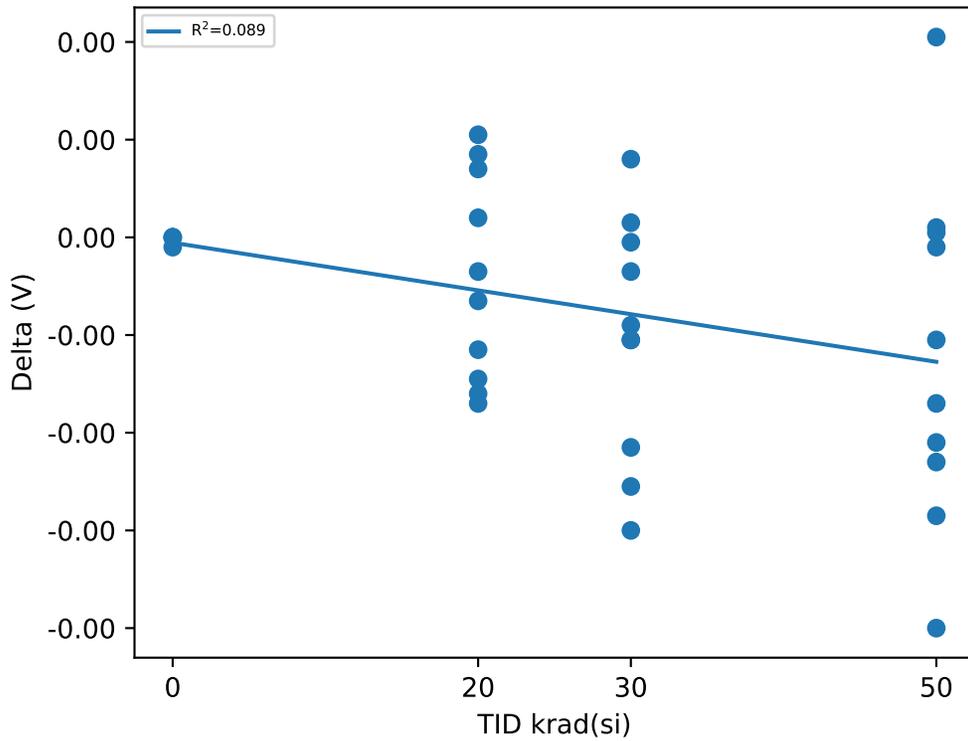
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.59983	0.60011	0.60031	0.00021235	0.59983	0.6001	0.60031	0.00020871	-2e-05	-5e-06	0	1e-05
20	0.59977	0.60009	0.60034	0.00022812	0.59948	0.60001	0.60043	0.0003285	-0.00034	-8.2e-05	0.00021	0.00021181
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

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

TID vs Result Stats


TID vs Post - Pre Exposure Delta

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

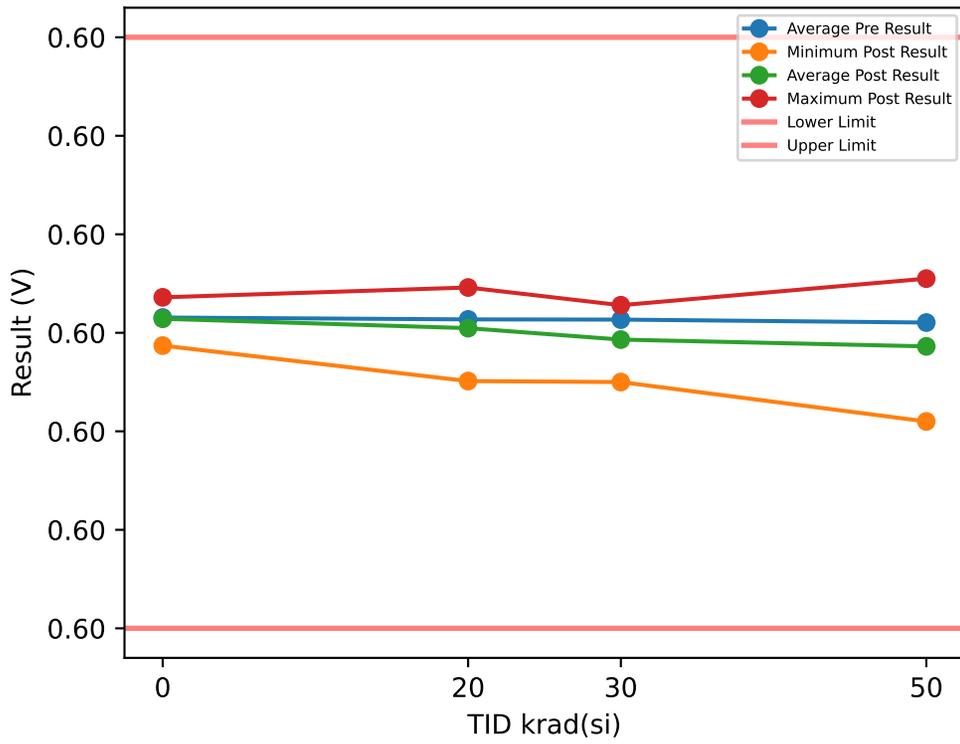| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.60029	0.60045	0.00016
22	20	HDR BIAS	0.60038	0.60042	4e-05
23	20	HDR BIAS	0.60003	0.59976	-0.00027
24	20	HDR BIAS	0.60026	0.59991	-0.00035
25	20	HDR BIAS	0.60032	0.60008	-0.00024
26	20	HDR UNBIAS	0.6003	0.60016	-0.00014
27	20	HDR UNBIAS	0.59982	0.59996	0.00014
28	20	HDR UNBIAS	0.59983	0.59976	-7e-05
29	20	HDR UNBIAS	0.60028	0.60046	0.00018
30	20	HDR UNBIAS	0.59985	0.59951	-0.00034
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
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
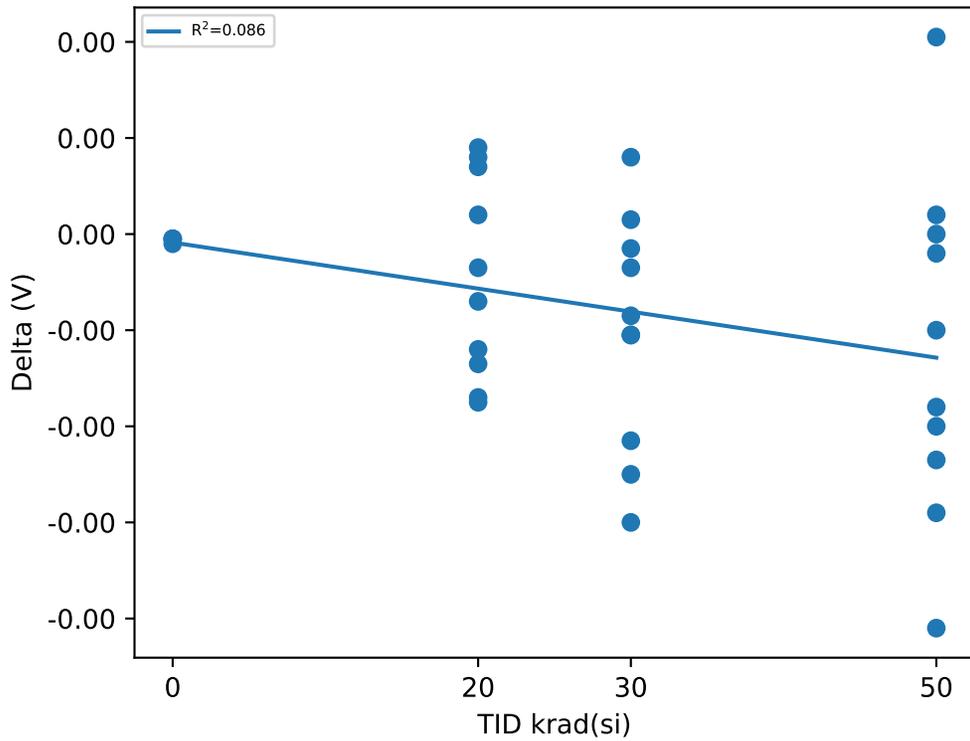
Test Statistics (V)

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
20	0.59982	0.60014	0.60038	0.0002277	0.59951	0.60005	0.60046	0.00032752	-0.00035	-8.9e-05	0.00018	0.00020899
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1617.3	1601	-16.336
22	20	HDR BIAS	1648.5	1633.8	-14.625
23	20	HDR BIAS	1617.4	1668.2	50.789
24	20	HDR BIAS	1703.3	1739.4	36.097
25	20	HDR BIAS	1665.6	1721.5	55.835
26	20	HDR UNBIAS	1779.2	1740.4	-38.767
27	20	HDR UNBIAS	1585.3	1570.1	-15.207
28	20	HDR UNBIAS	1719.4	1702.4	-16.932
29	20	HDR UNBIAS	1703.4	1685.2	-18.206
30	20	HDR UNBIAS	1667.9	1667.9	0.0083
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
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)
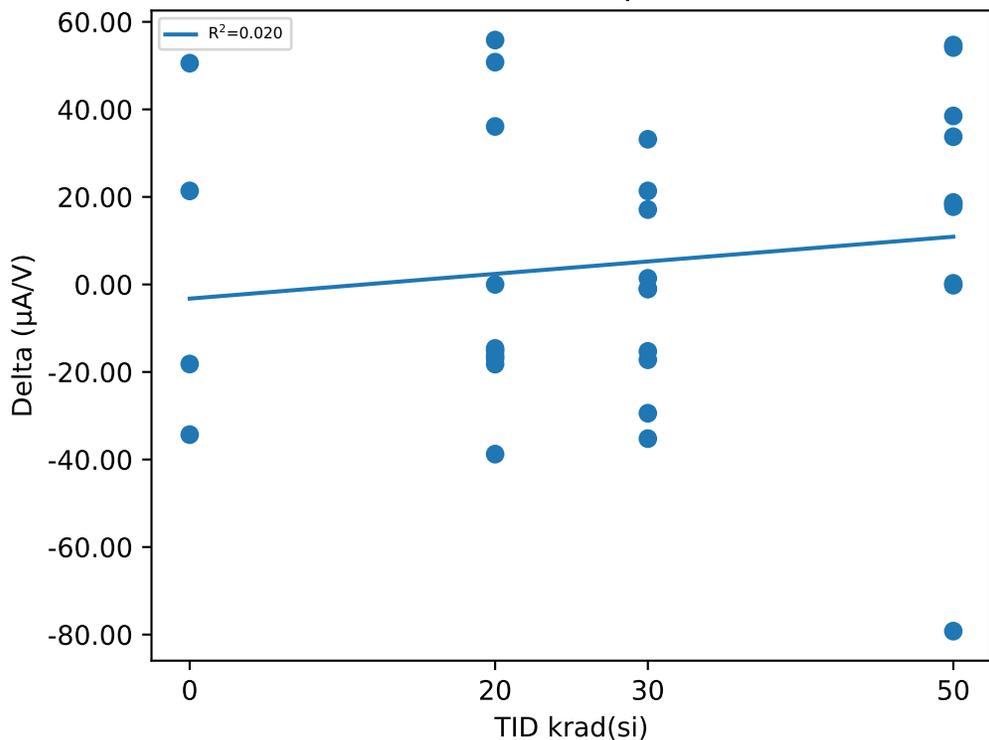
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1617.3	1668.2	1719.4	41.663	1633.6	1673	1740.7	47.271	-34.318	4.8556	50.55	38.41
20	1585.3	1670.7	1779.2	57.524	1570.1	1673	1740.4	57.429	-38.767	2.2656	55.835	32.968
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
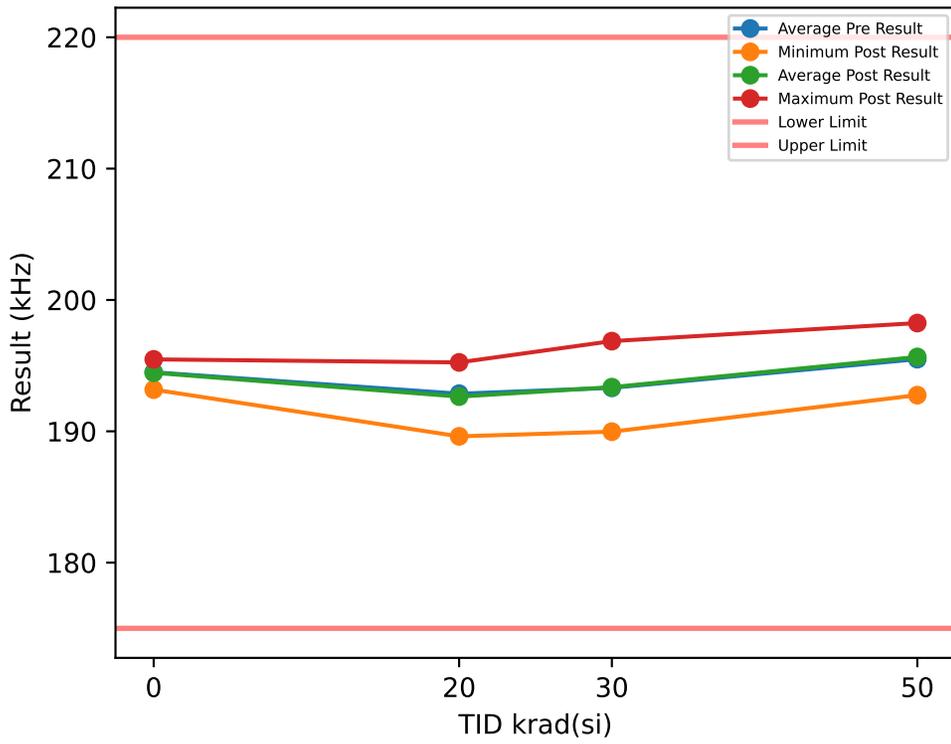
Device Test: 20.101 LEVEL|FREQ/RT/8/8/0/0/5/200kHz//@FSW_EXT_RT_B

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

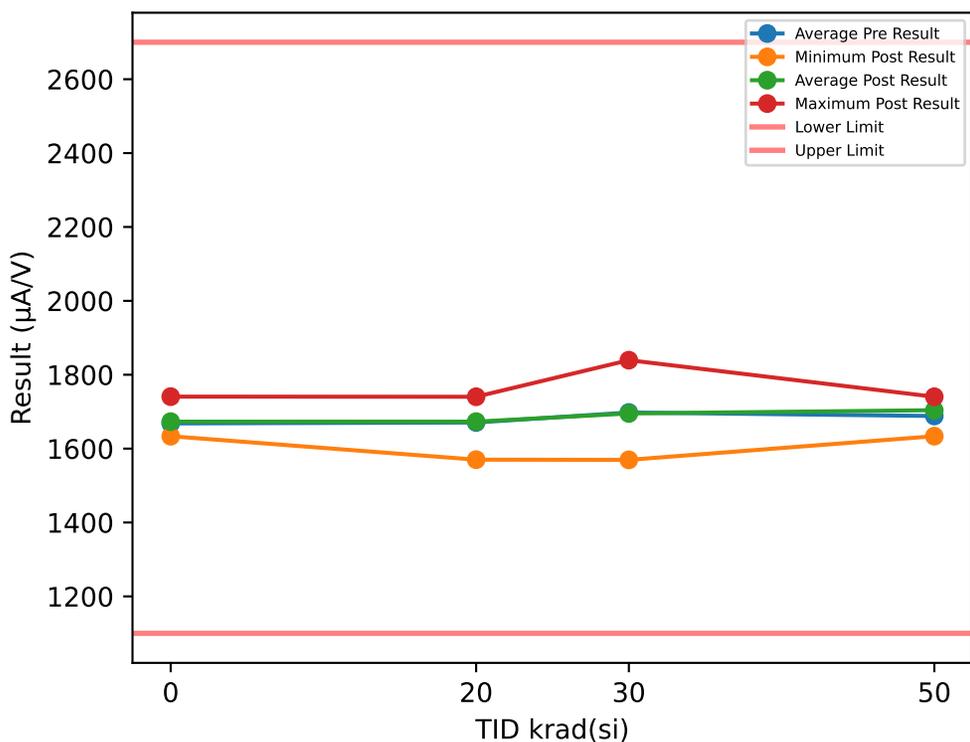| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	191.97	190.98	-0.9879
22	20	HDR BIAS	196.03	195.25	-0.7825
23	20	HDR BIAS	192.12	192.36	0.2396
24	20	HDR BIAS	193.23	193.7	0.471
25	20	HDR BIAS	189.98	189.62	-0.3647
26	20	HDR UNBIAS	191.84	191.9	0.0535
27	20	HDR UNBIAS	194.61	194.3	-0.3067
28	20	HDR UNBIAS	192.81	193.45	0.6407
29	20	HDR UNBIAS	195.56	194.87	-0.6871
30	20	HDR UNBIAS	190.47	189.98	-0.4926
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
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)
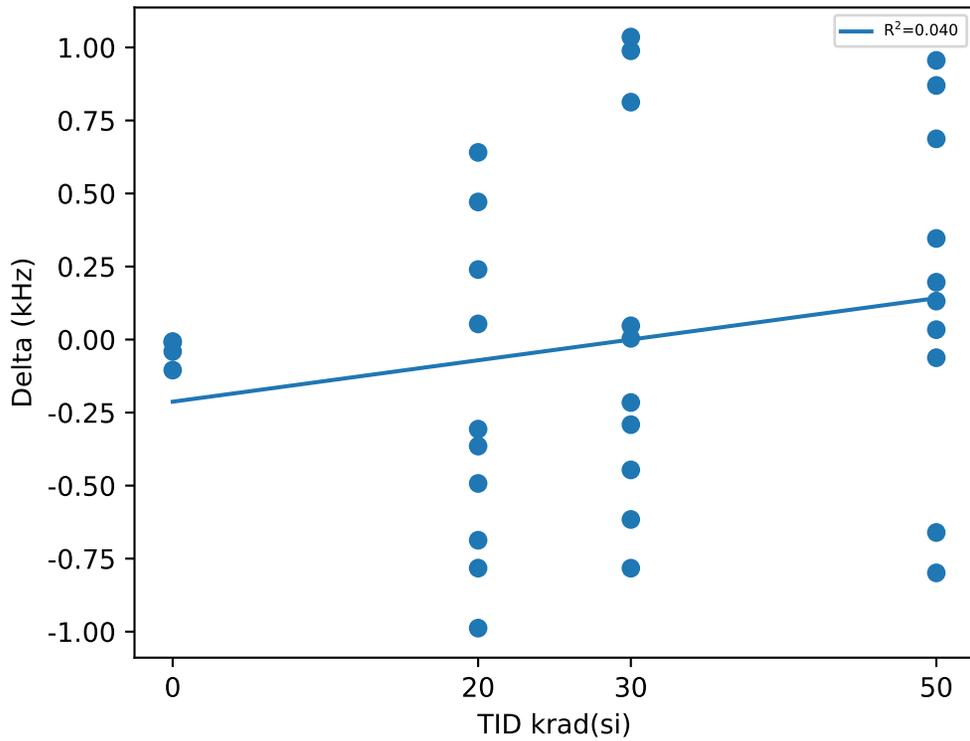
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.18	194.5	195.52	1.145	193.18	194.45	195.48	1.1524	-0.1046	-0.040375	-0.0069	0.045525
20	189.98	192.86	196.03	2.0238	189.62	192.64	195.25	1.9972	-0.9879	-0.22167	0.6407	0.55089
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
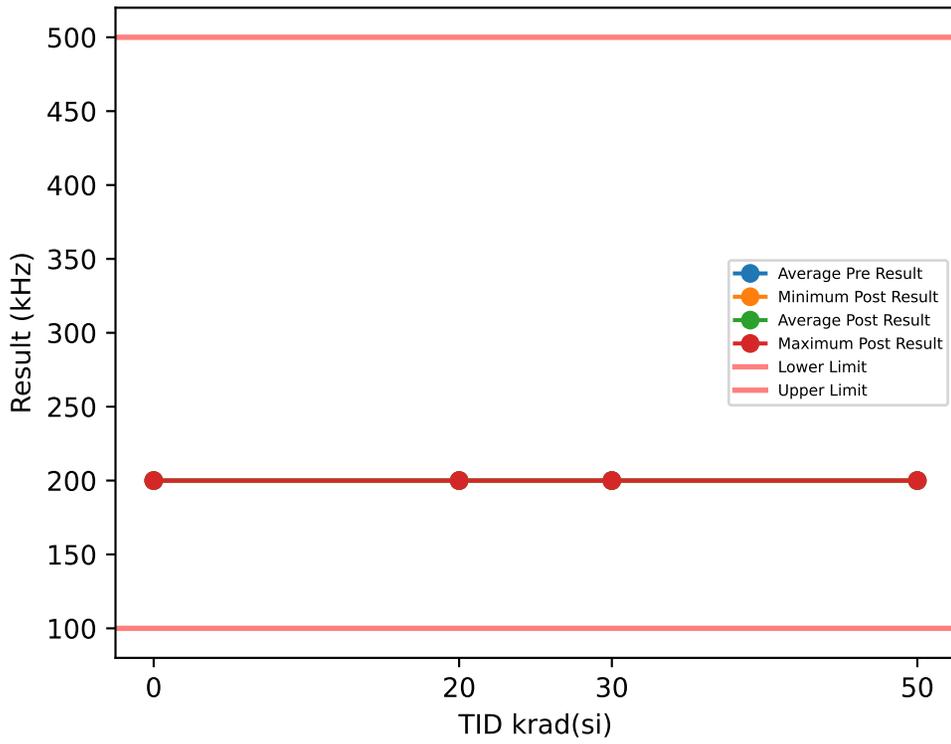
Device Test: 20.102 LEVEL|FREQ/SYNC/8/8/0/0/5/200kHz//@FREQ_SYNC_EXT_503X

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
21	20	HDR BIAS	200	199.99	-0.0115
22	20	HDR BIAS	199.99	199.97	-0.0236
23	20	HDR BIAS	200	199.97	-0.0354
24	20	HDR BIAS	200	199.98	-0.0173
25	20	HDR BIAS	199.99	199.99	-0.0084
26	20	HDR UNBIAS	200	199.97	-0.023
27	20	HDR UNBIAS	200	199.97	-0.022
28	20	HDR UNBIAS	199.99	199.98	-0.0187
29	20	HDR UNBIAS	200	199.99	-0.008
30	20	HDR UNBIAS	200	199.97	-0.0213
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
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
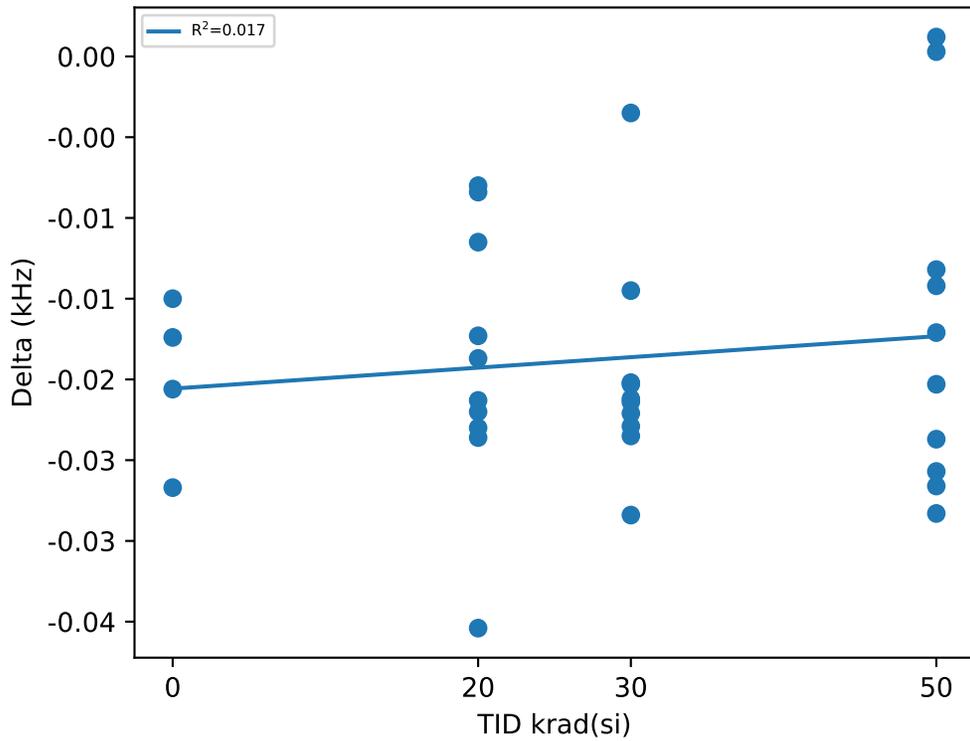
Test Statistics (kHz)

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
20	199.99	200	200	0.0032771	199.97	199.98	199.99	0.0068065	-0.0354	-0.01892	-0.008	0.0082525
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
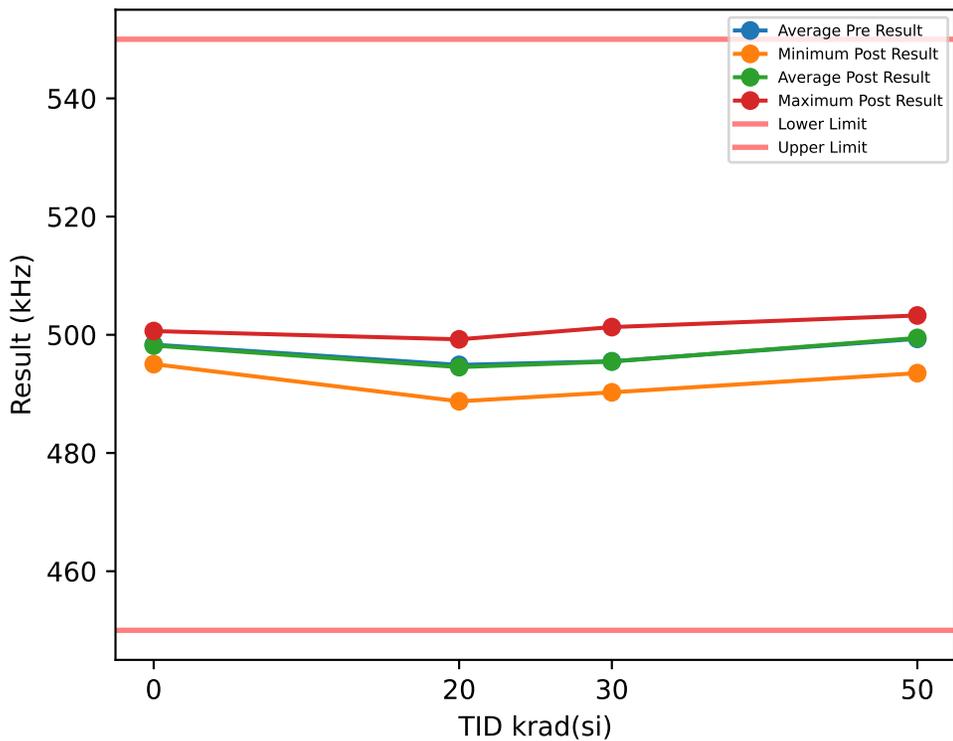
Device Test: 20.103 LEVEL|FREQ/RT/8/8/0/0/5/500kHz//@FSW_EXT_RT_C

TID vs Result Stats


TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	492.65	491.52	-1.1388
22	20	HDR BIAS	500.02	498.72	-1.2943
23	20	HDR BIAS	494.37	494.61	0.2391
24	20	HDR BIAS	495.53	496.39	0.8642
25	20	HDR BIAS	490.29	489.85	-0.4421
26	20	HDR UNBIAS	493.79	493.33	-0.45
27	20	HDR UNBIAS	497.5	497.13	-0.3752
28	20	HDR UNBIAS	495	495.77	0.7703
29	20	HDR UNBIAS	500.04	499.23	-0.8088
30	20	HDR UNBIAS	489.89	488.74	-1.1487
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
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)
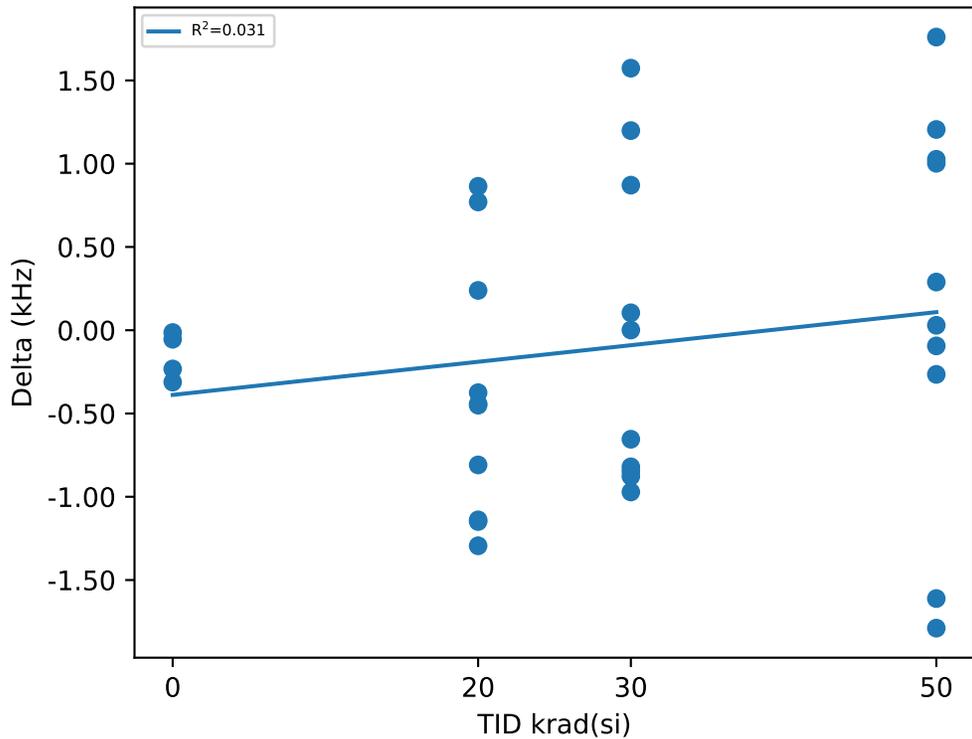
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	495.06	498.34	500.94	2.6595	495.04	498.19	500.63	2.5835	-0.3114	-0.15308	-0.0139	0.14209
20	489.89	494.91	500.04	3.5382	488.74	494.53	499.23	3.6111	-1.2943	-0.37843	0.8642	0.77816
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

Device Test: 20.107 LEVEL|FREQ/RT/8/8/0/1000/5/100kHz//@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
21	20	HDR BIAS	92.573	92.034	-0.5392
22	20	HDR BIAS	95.187	94.638	-0.5495
23	20	HDR BIAS	92.443	92.742	0.2988
24	20	HDR BIAS	93.365	93.639	0.2733
25	20	HDR BIAS	91.319	91.084	-0.2353
26	20	HDR UNBIAS	92.32	92.467	0.1469
27	20	HDR UNBIAS	94.237	94.168	-0.0692
28	20	HDR UNBIAS	93.021	93.36	0.3385
29	20	HDR UNBIAS	94.706	94.292	-0.4147
30	20	HDR UNBIAS	91.73	91.476	-0.2539
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
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)
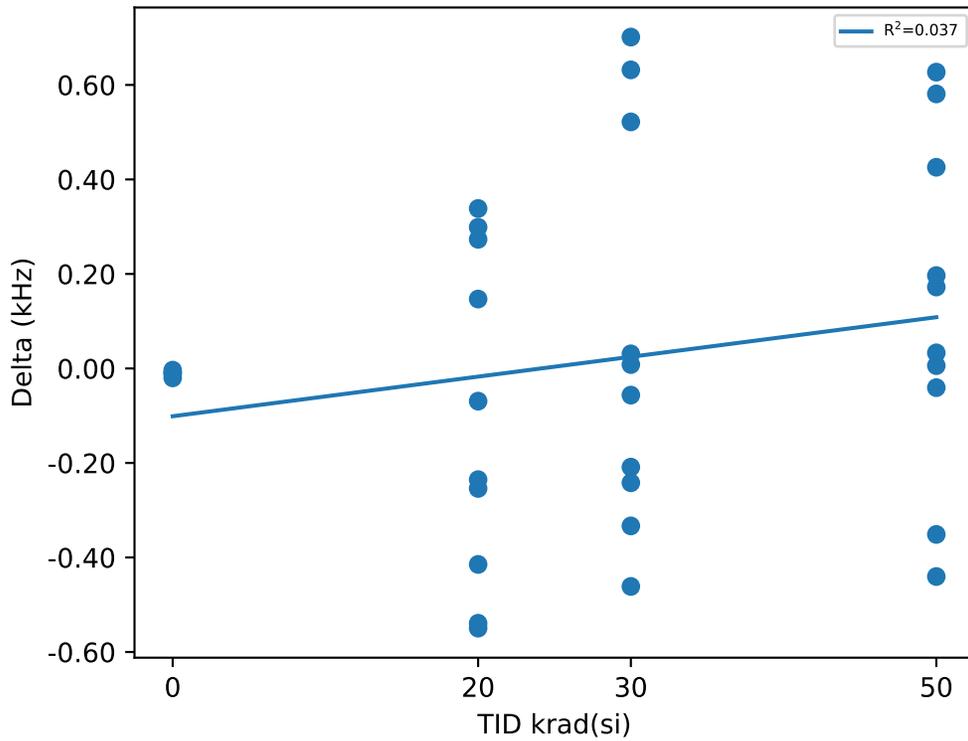
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.009	94.036	94.602	0.73709	93.005	94.025	94.592	0.7342	-0.0199	-0.011	-0.0036	0.0067137
20	91.319	93.09	95.187	1.2767	91.084	92.99	94.638	1.226	-0.5495	-0.10043	0.3385	0.34778
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
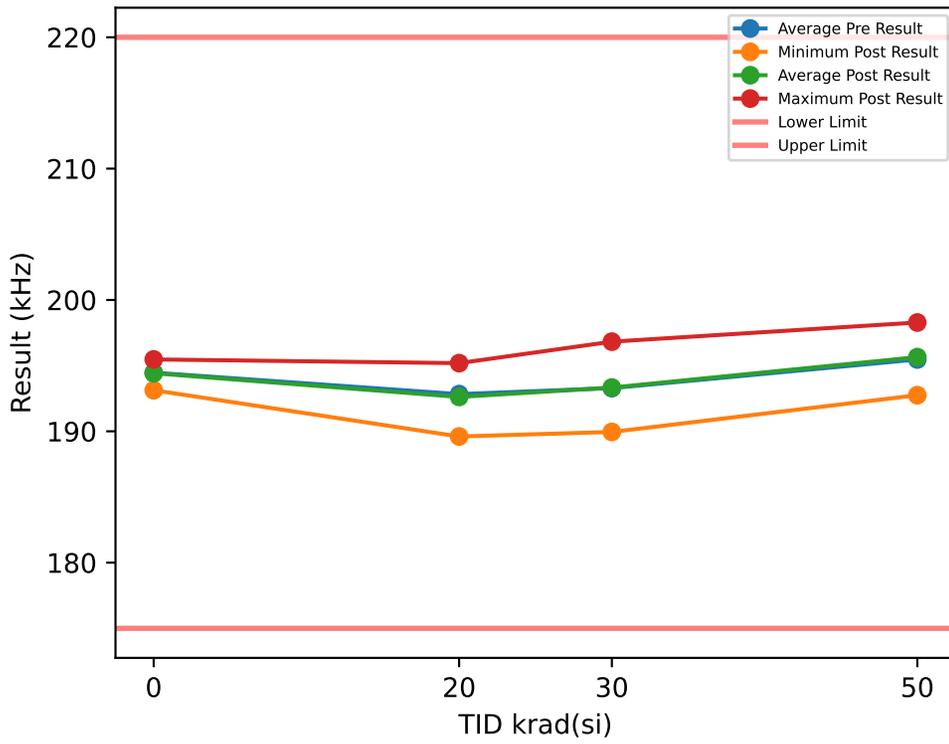
Device Test: 20.109 LEVEL|FREQ/RT/8/8/0/1000/5/200kHz//@FSW_EXT_RT_B

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

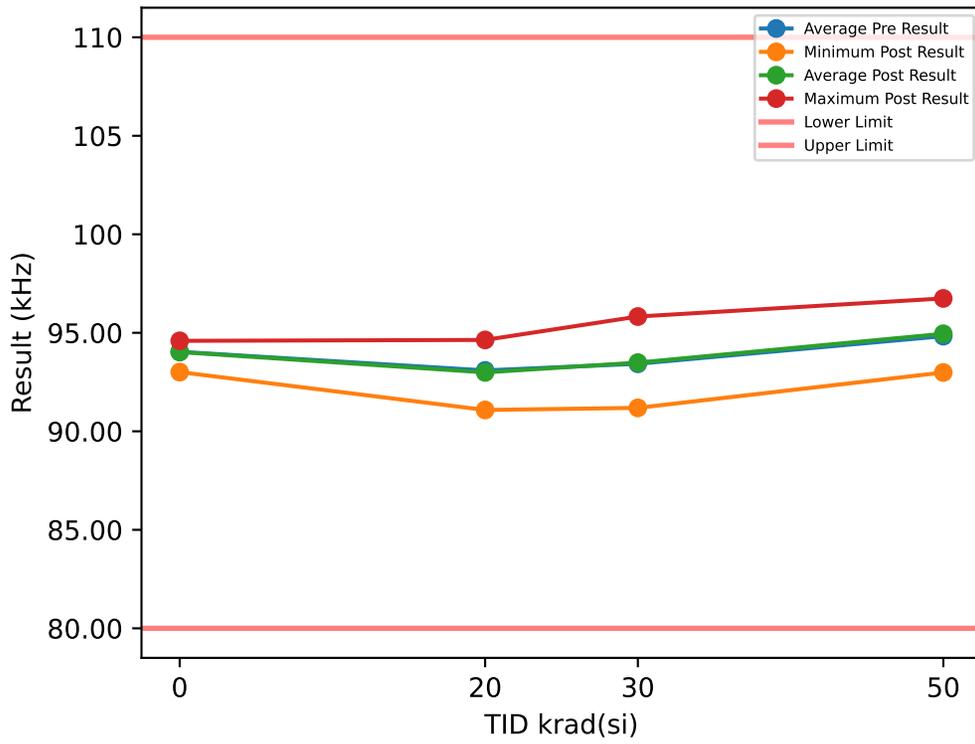| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	191.91	190.95	-0.9547
22	20	HDR BIAS	196.01	195.19	-0.8226
23	20	HDR BIAS	192.09	192.35	0.2623
24	20	HDR BIAS	193.23	193.69	0.4601
25	20	HDR BIAS	189.95	189.61	-0.3449
26	20	HDR UNBIAS	191.83	191.89	0.0563
27	20	HDR UNBIAS	194.56	194.28	-0.2846
28	20	HDR UNBIAS	192.75	193.47	0.7233
29	20	HDR UNBIAS	195.52	194.83	-0.6858
30	20	HDR UNBIAS	190.46	189.9	-0.5558
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
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
20	189.95	192.83	196.01	2.0221	189.61	192.62	195.19	1.9987	-0.9547	-0.21464	0.7233	0.56896
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

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

TID vs Result Stats

## TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	492.55	491.44	-1.1108
22	20	HDR BIAS	499.91	498.62	-1.2879
23	20	HDR BIAS	494.31	494.5	0.1887
24	20	HDR BIAS	495.45	496.29	0.8374
25	20	HDR BIAS	490.26	489.73	-0.5316
26	20	HDR UNBIAS	493.75	493.24	-0.5118
27	20	HDR UNBIAS	497.47	497.03	-0.4368
28	20	HDR UNBIAS	494.89	495.69	0.7958
29	20	HDR UNBIAS	499.96	499.16	-0.7991
30	20	HDR UNBIAS	489.81	488.62	-1.19
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
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

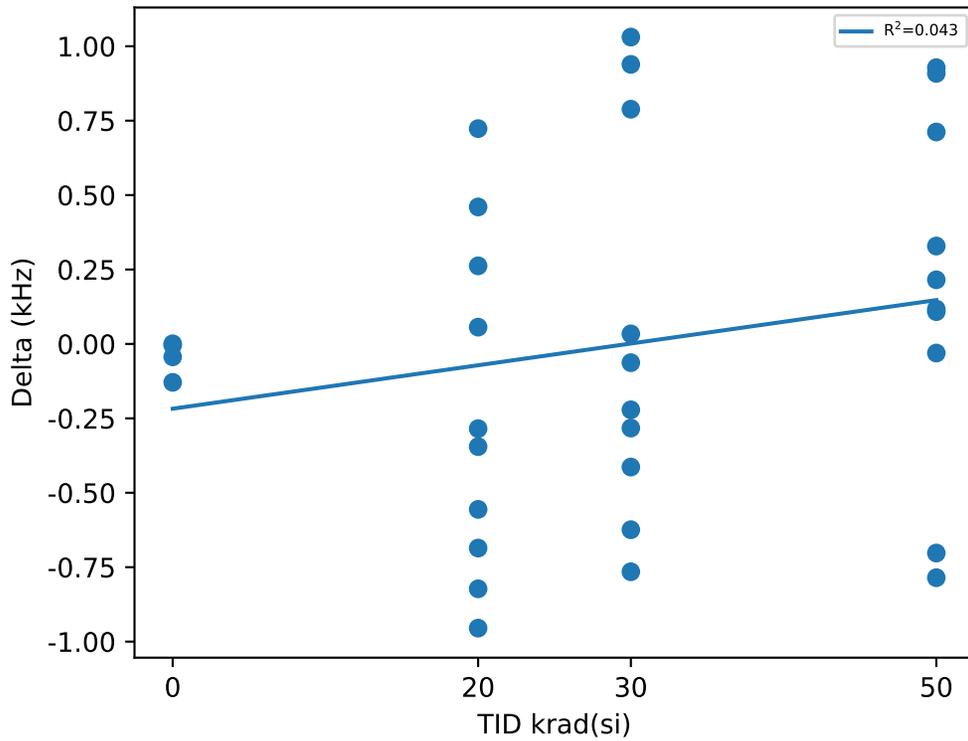## Test Statistics (kHz)
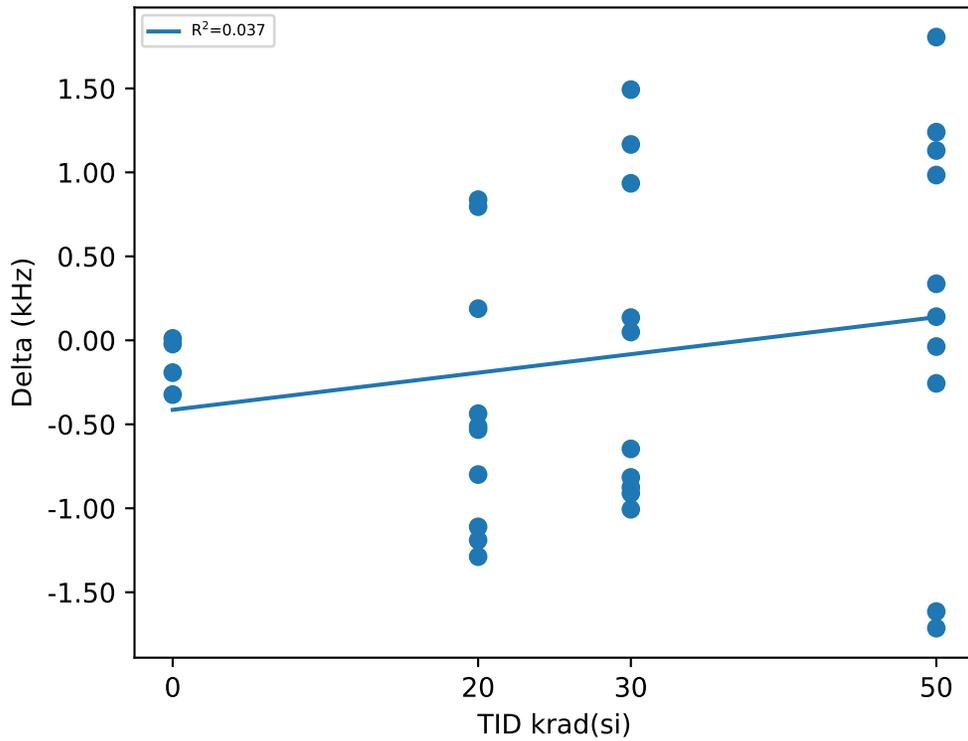
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.98	498.25	500.87	2.6578	494.96	498.12	500.55	2.5905	-0.3231	-0.13152	0.0114	0.15581
20	489.81	494.84	499.96	3.5297	488.62	494.43	499.16	3.6201	-1.2879	-0.40461	0.8374	0.77572
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

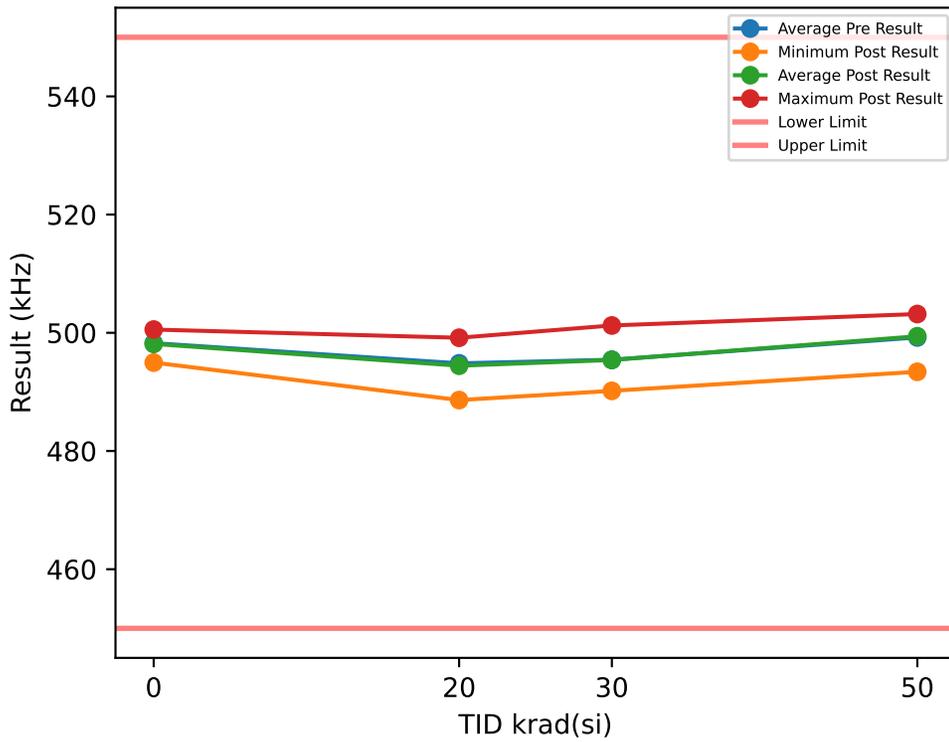| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	HDR UNBIAS	5	5	0
31	30	HDR BIAS	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

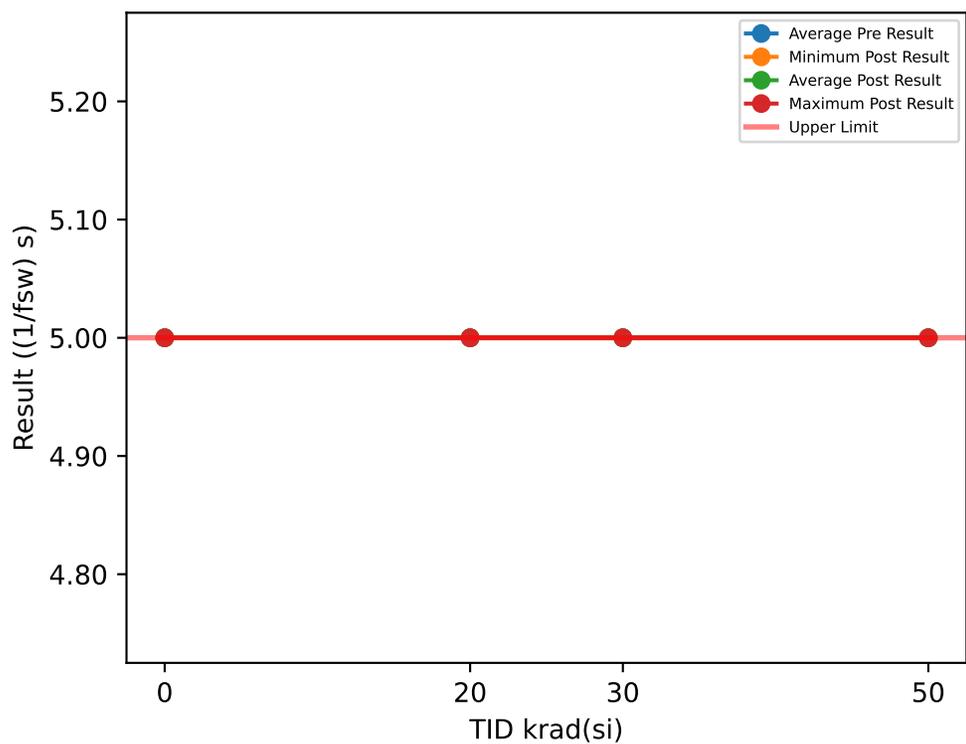| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	HDR UNBIAS	5	5	0
31	30	HDR BIAS	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9206	2.2845	0.3639
22	20	HDR BIAS	2.3207	2.0833	-0.2374
23	20	HDR BIAS	2.0711	2.277	0.2059
24	20	HDR BIAS	1.9212	1.8031	-0.1181
25	20	HDR BIAS	2.1439	2.5407	0.3968
26	20	HDR UNBIAS	2.0189	1.8453	-0.1736
27	20	HDR UNBIAS	1.9087	2.3283	0.4196
28	20	HDR UNBIAS	2.3833	1.891	-0.4923
29	20	HDR UNBIAS	1.95	2.4167	0.4667
30	20	HDR UNBIAS	2.1077	2.1508	0.0431
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
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)
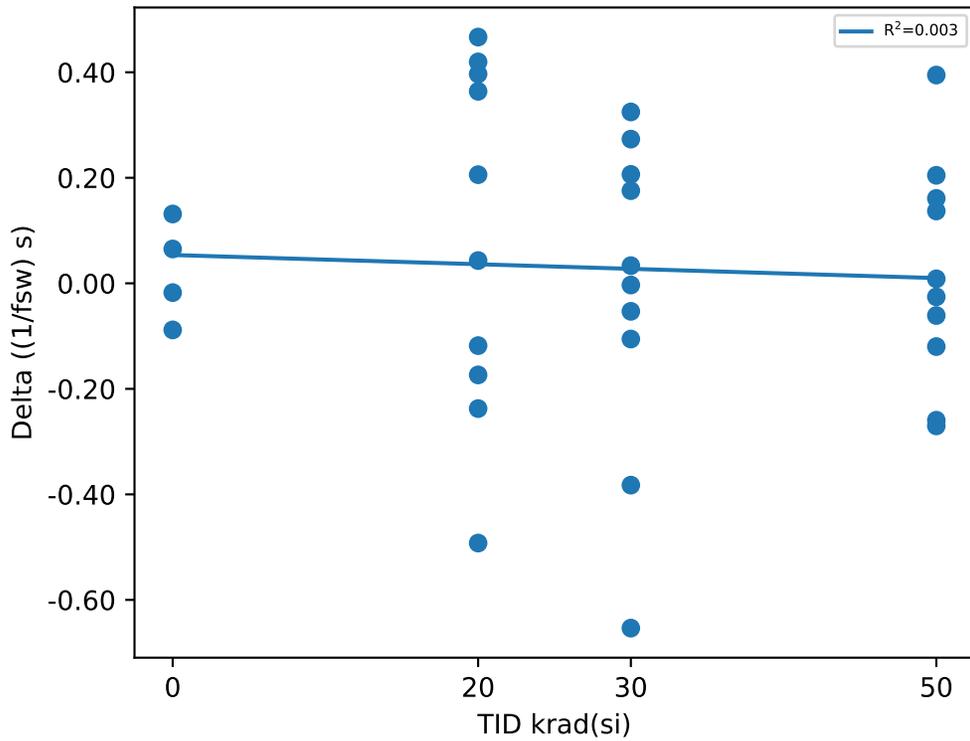
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.961	2.0946	2.3533	0.17672	1.8727	2.1173	2.4847	0.26506	-0.0883	0.02265	0.1314	0.095845
20	1.9087	2.0746	2.3833	0.16838	1.8031	2.1621	2.5407	0.25233	-0.4923	0.08746	0.4667	0.33238
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
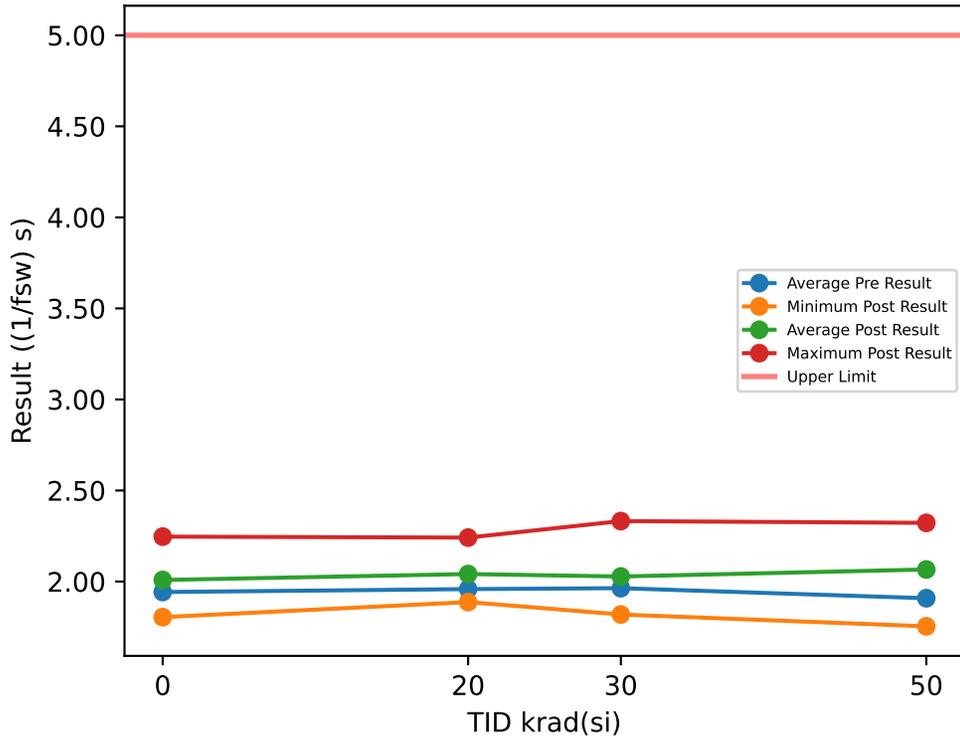
Device Test: 20.122 FREQ|DETECTION/RT/8/8/0/0/5/200kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9572	2.1862	0.229
22	20	HDR BIAS	2.1475	1.9114	-0.2361
23	20	HDR BIAS	2.0952	2.2412	0.146
24	20	HDR BIAS	1.8998	1.9562	0.0564
25	20	HDR BIAS	2.0237	2.0858	0.0621
26	20	HDR UNBIAS	1.7334	1.9412	0.2078
27	20	HDR UNBIAS	1.8775	2.0411	0.1636
28	20	HDR UNBIAS	2.1361	1.9452	-0.1909
29	20	HDR UNBIAS	1.8008	2.2162	0.4154
30	20	HDR UNBIAS	1.9129	1.8871	-0.0258
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
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)
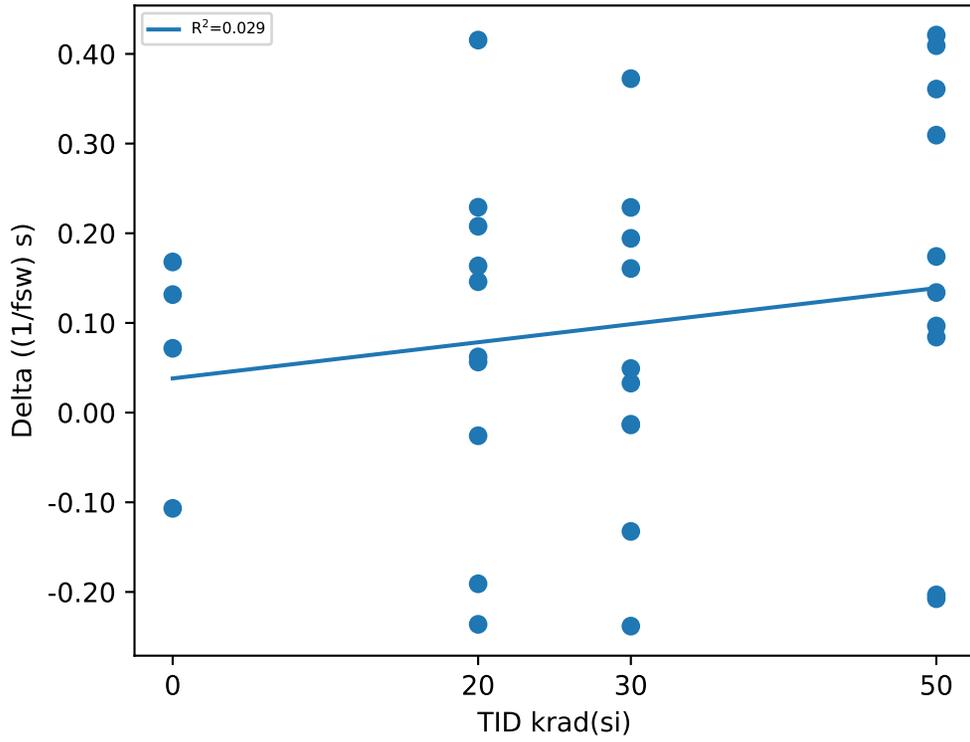
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7327	1.9424	2.1151	0.16106	1.8044	2.0085	2.2467	0.23275	-0.1068	0.066125	0.168	0.12193
20	1.7334	1.9584	2.1475	0.14057	1.8871	2.0412	2.2412	0.13361	-0.2361	0.08275	0.4154	0.19655
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
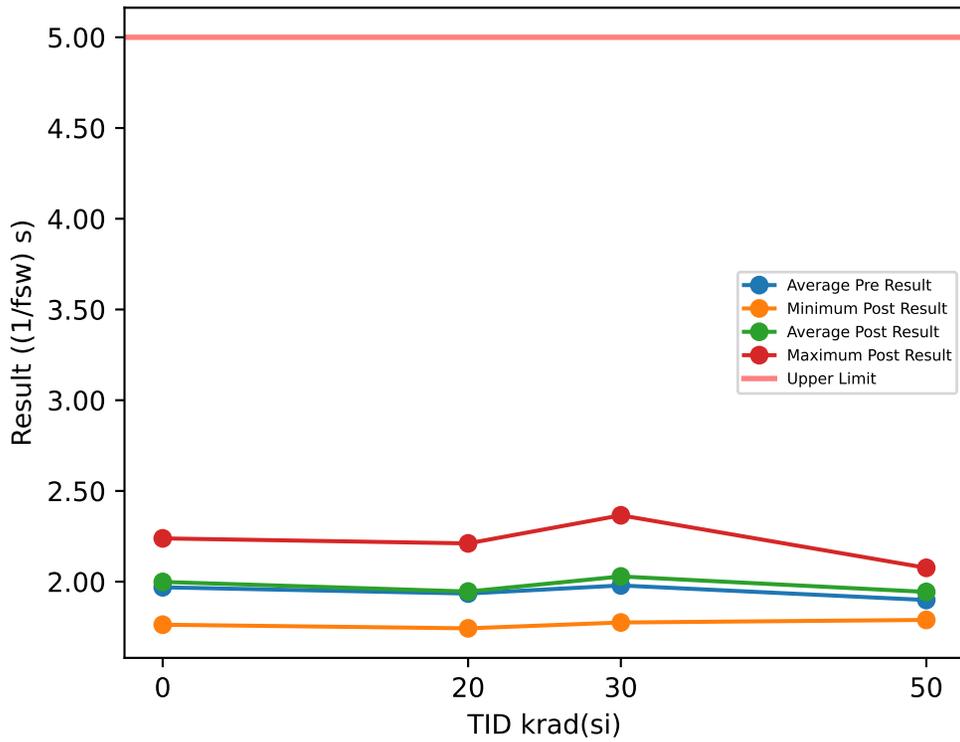
Device Test: 20.124 FREQ|DETECTION/RT/8/8/0/0/5/500kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9257	2.1893	0.2636
22	20	HDR BIAS	2.0397	1.743	-0.2967
23	20	HDR BIAS	1.9774	1.9573	-0.0201
24	20	HDR BIAS	1.7797	1.7988	0.0191
25	20	HDR BIAS	2.175	2.211	0.036
26	20	HDR UNBIAS	1.8268	1.8945	0.0677
27	20	HDR UNBIAS	1.8913	1.997	0.1057
28	20	HDR UNBIAS	2.0136	1.8724	-0.1412
29	20	HDR UNBIAS	1.8723	1.8247	-0.0476
30	20	HDR UNBIAS	1.8445	1.9695	0.125
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
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)
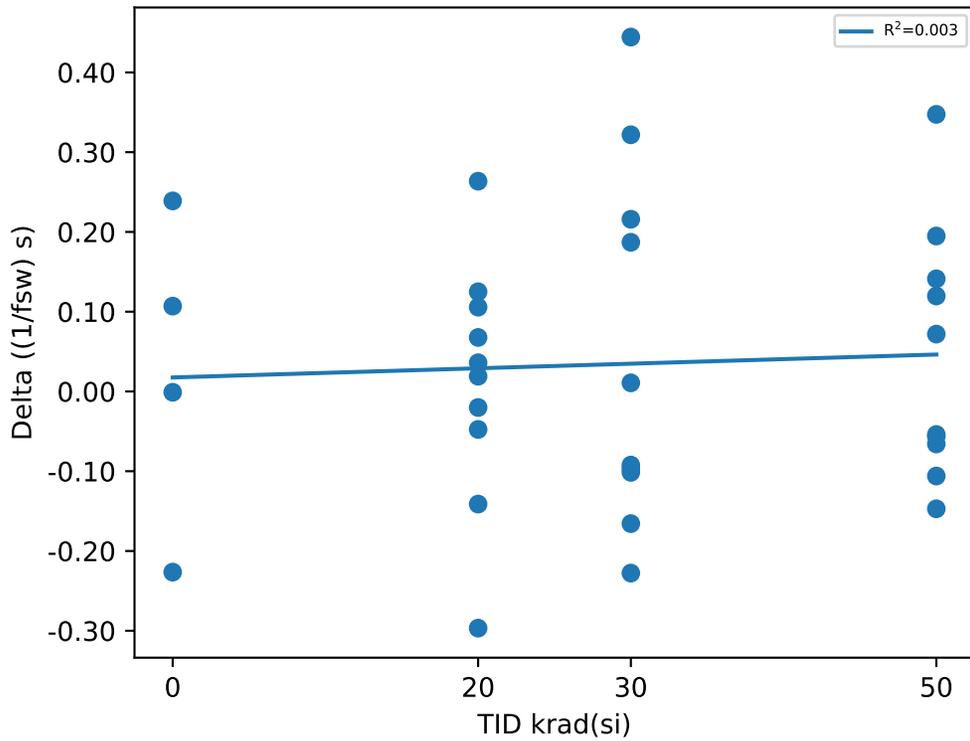
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.764	1.9691	2.0768	0.14031	1.763	1.9987	2.2386	0.22798	-0.2265	0.0296	0.2389	0.19691
20	1.7797	1.9346	2.175	0.11855	1.743	1.9457	2.211	0.15576	-0.2967	0.01115	0.2636	0.15345
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

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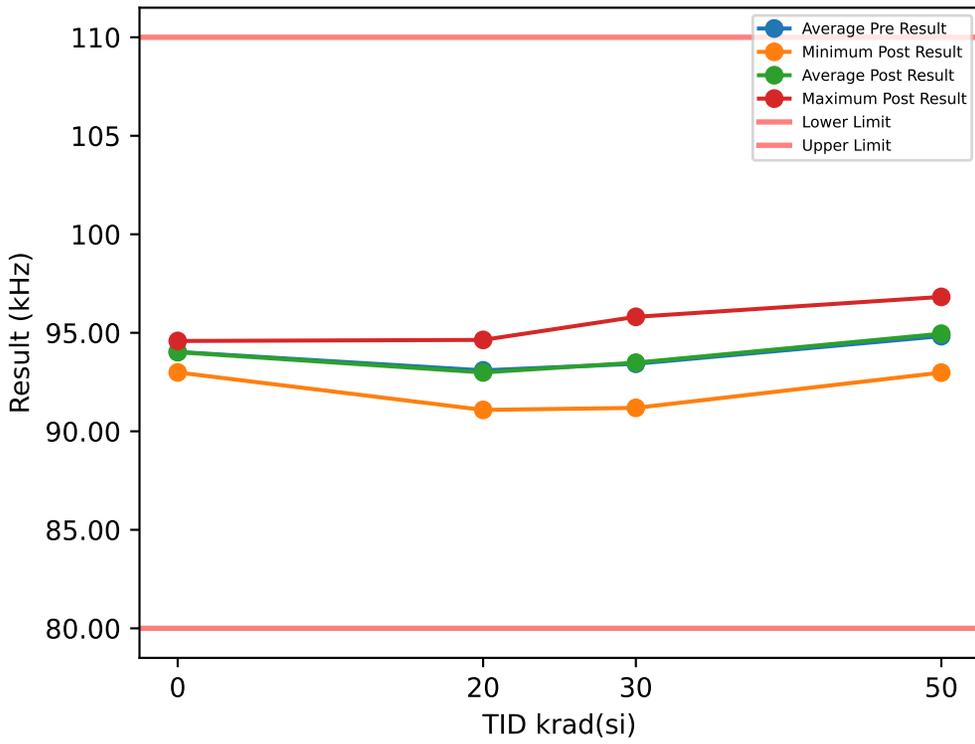
TID vs Result Stats

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
21	20	HDR BIAS	92.594	92.017	-0.5773
22	20	HDR BIAS	95.19	94.639	-0.5512
23	20	HDR BIAS	92.444	92.726	0.2825
24	20	HDR BIAS	93.374	93.639	0.2644
25	20	HDR BIAS	91.318	91.086	-0.2314
26	20	HDR UNBIAS	92.322	92.475	0.1533
27	20	HDR UNBIAS	94.245	94.167	-0.0781
28	20	HDR UNBIAS	93.013	93.369	0.3552
29	20	HDR UNBIAS	94.701	94.278	-0.4231
30	20	HDR UNBIAS	91.73	91.476	-0.2531
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
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)
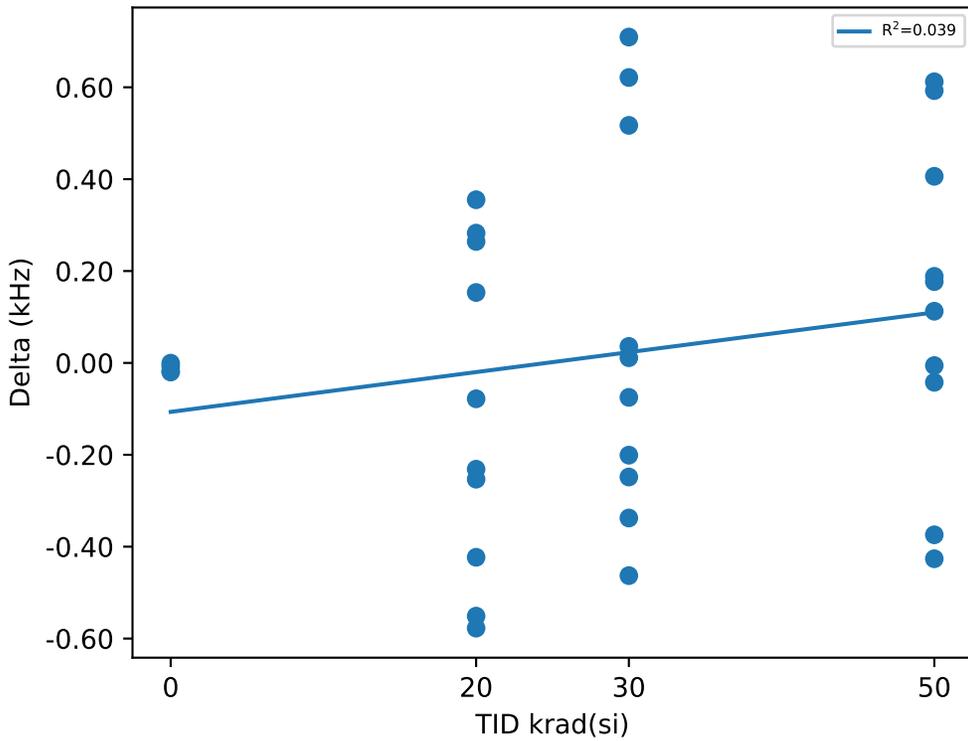
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.994	94.03	94.603	0.74364	92.987	94.019	94.585	0.74269	-0.0198	-0.0115	-0.0006	0.0091177
20	91.318	93.093	95.19	1.2767	91.086	92.987	94.639	1.2258	-0.5773	-0.10588	0.3552	0.35388
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
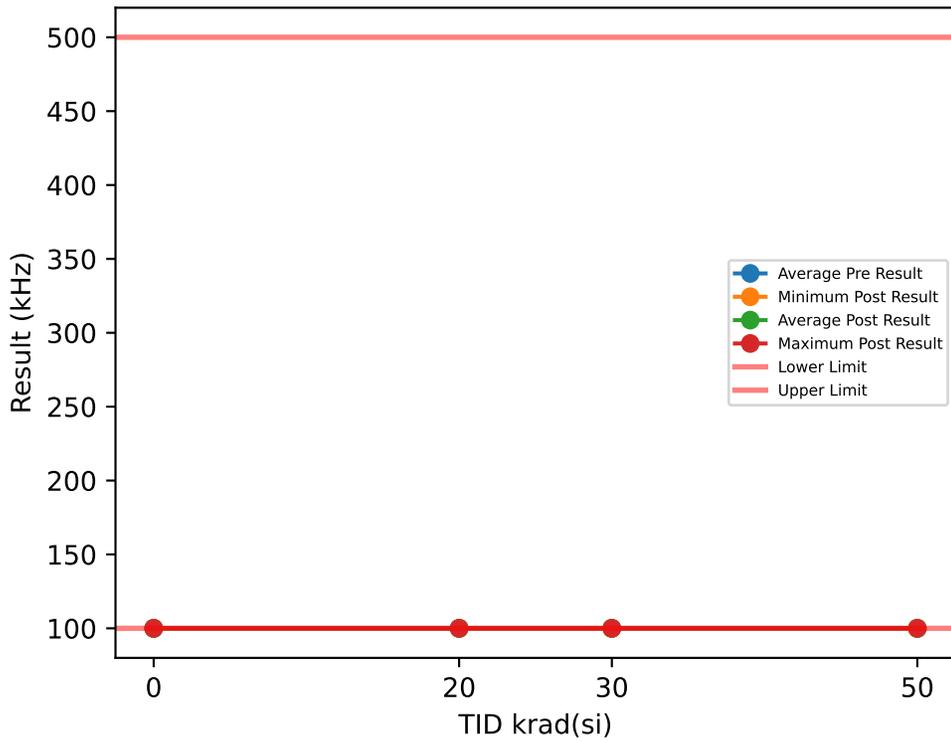
Device Test: 20.28 LEVEL|FREQ/SYNC/12/12/0/0/5/100kHz//@FREQ_SYNC_EXT_503X

TID vs Result Stats

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	99.998	99.997	-0.0009
22	20	HDR BIAS	100	99.996	-0.0053
23	20	HDR BIAS	100	99.994	-0.0067
24	20	HDR BIAS	99.998	99.995	-0.003
25	20	HDR BIAS	99.999	99.995	-0.0041
26	20	HDR UNBIAS	100	99.995	-0.0064
27	20	HDR UNBIAS	100	99.994	-0.0064
28	20	HDR UNBIAS	100	99.994	-0.0058
29	20	HDR UNBIAS	100	100	-0.0003
30	20	HDR UNBIAS	100	99.995	-0.0053
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
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

## TID vs Post - Pre Exposure Delta
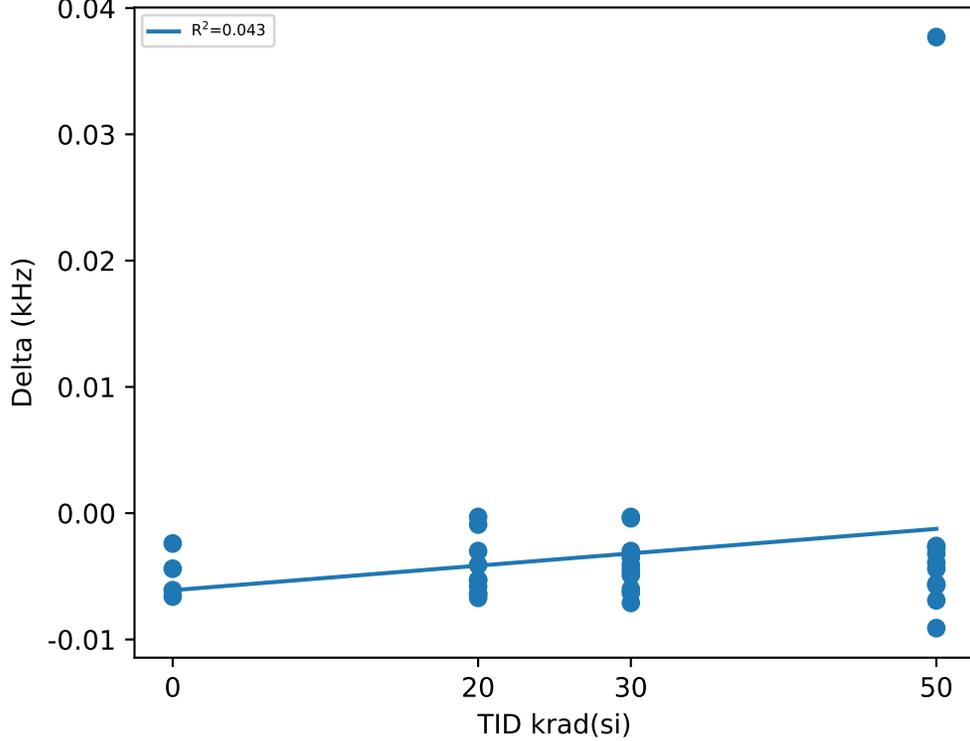
$R^2 = 0.043$

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
20	99.998	100	100	0.0010802	99.994	99.995	100	0.0018014	-0.0067	-0.00442	-0.0003	0.0023088
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	40	40	0
22	20	HDR BIAS	40	40	0
23	20	HDR BIAS	40	40	0
24	20	HDR BIAS	40	40	0
25	20	HDR BIAS	40	40	0
26	20	HDR UNBIAS	40	40	0
27	20	HDR UNBIAS	40	40	0
28	20	HDR UNBIAS	40	40	0
29	20	HDR UNBIAS	40	40	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	60	60	0
22	20	HDR BIAS	60	60	0
23	20	HDR BIAS	60	60	0
24	20	HDR BIAS	60	60	0
25	20	HDR BIAS	60	60	0
26	20	HDR UNBIAS	60	60	0
27	20	HDR UNBIAS	60	60	0
28	20	HDR UNBIAS	60	60	0
29	20	HDR UNBIAS	60	60	0
30	20	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
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
20	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

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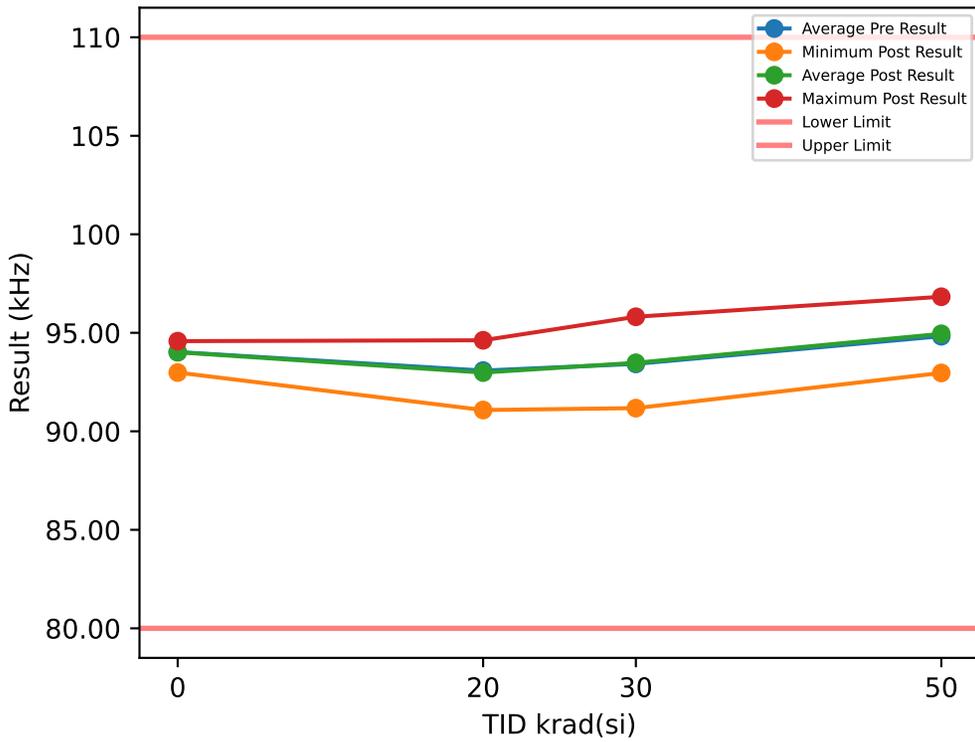
TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

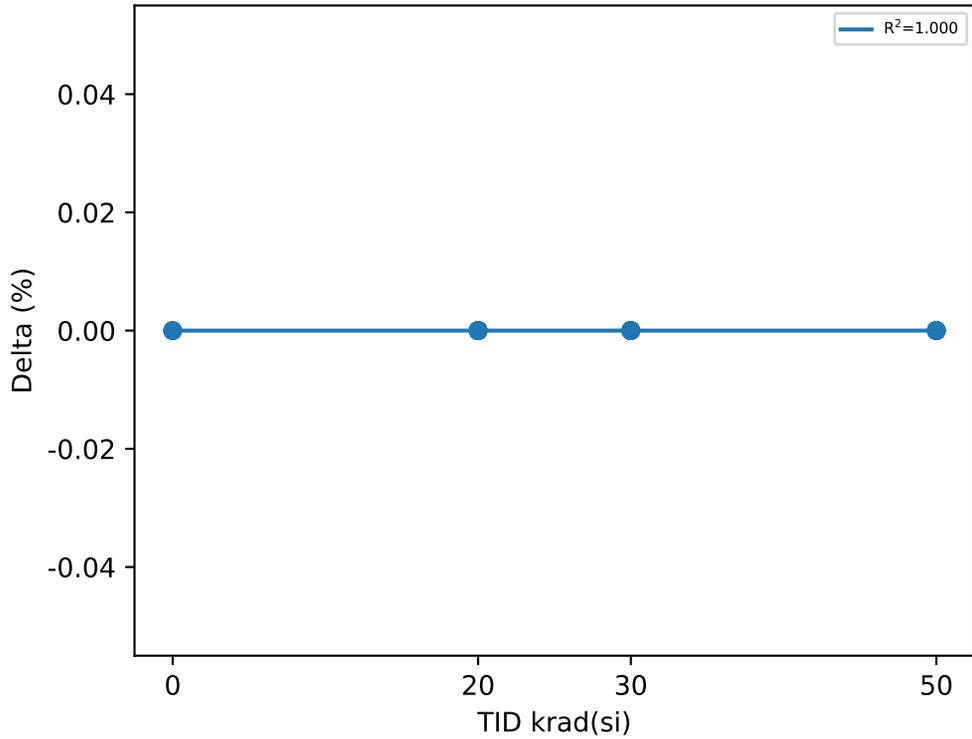| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	92.576	92.018	-0.5584
22	20	HDR BIAS	95.168	94.62	-0.5486
23	20	HDR BIAS	92.424	92.719	0.2948
24	20	HDR BIAS	93.359	93.636	0.277
25	20	HDR BIAS	91.305	91.08	-0.2246
26	20	HDR UNBIAS	92.314	92.468	0.1543
27	20	HDR UNBIAS	94.239	94.159	-0.0797
28	20	HDR UNBIAS	92.997	93.365	0.3672
29	20	HDR UNBIAS	94.714	94.27	-0.444
30	20	HDR UNBIAS	91.729	91.473	-0.2559
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
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)
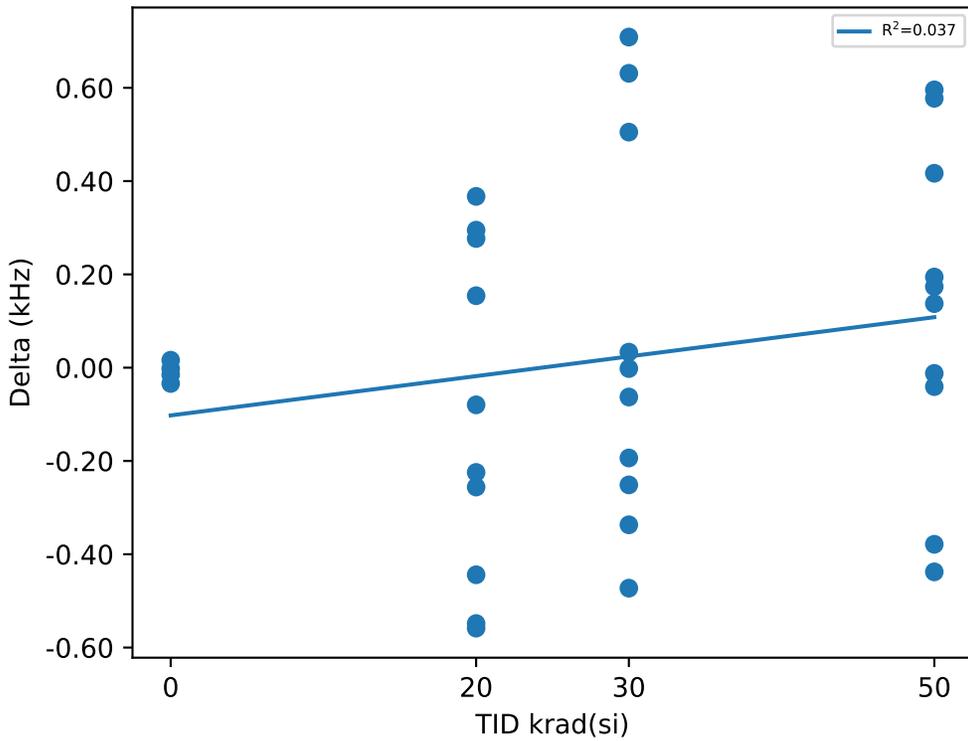
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.966	94.023	94.61	0.75745	92.982	94.014	94.576	0.74121	-0.0339	-0.00875	0.016	0.021084
20	91.305	93.083	95.168	1.2783	91.08	92.981	94.62	1.2228	-0.5584	-0.10179	0.3672	0.35759
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
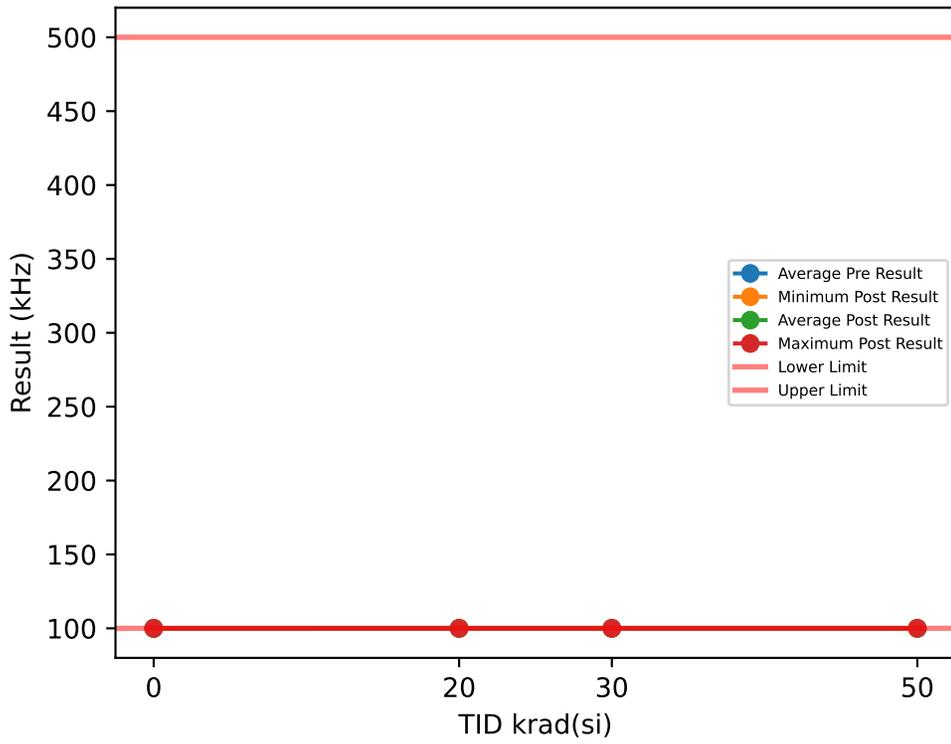
Device Test: 20.32 LEVEL|FREQ/SYNC/14/14/0/0/5/100kHz//@FREQ_SYNC_EXT_503X

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
21	20	HDR BIAS	99.999	99.998	-0.0011
22	20	HDR BIAS	99.999	99.993	-0.0057
23	20	HDR BIAS	100	99.994	-0.0077
24	20	HDR BIAS	99.999	99.994	-0.0044
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	99.993	-0.0075
27	20	HDR UNBIAS	99.998	99.993	-0.0056
28	20	HDR UNBIAS	100	99.994	-0.0065
29	20	HDR UNBIAS	100	99.994	-0.0061
30	20	HDR UNBIAS	99.998	99.994	-0.0035
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
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)
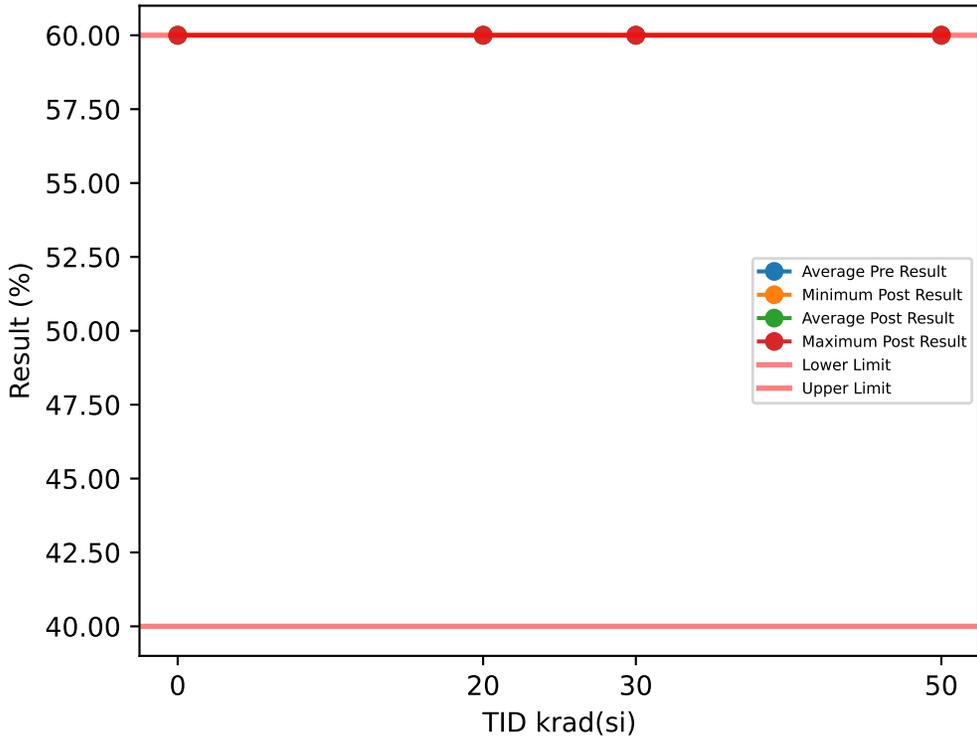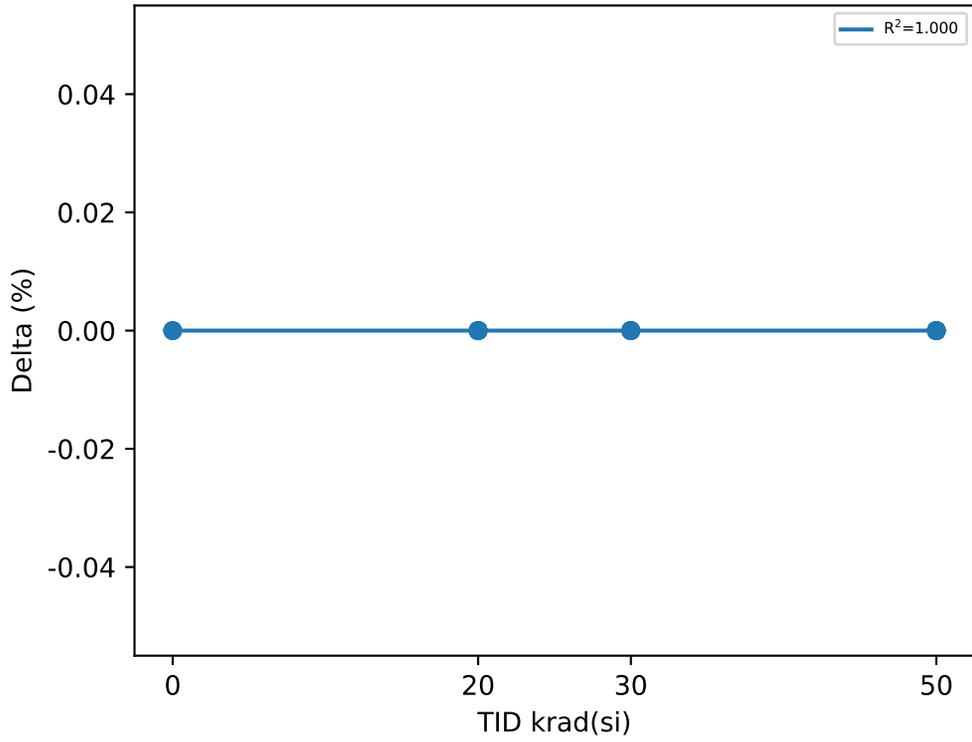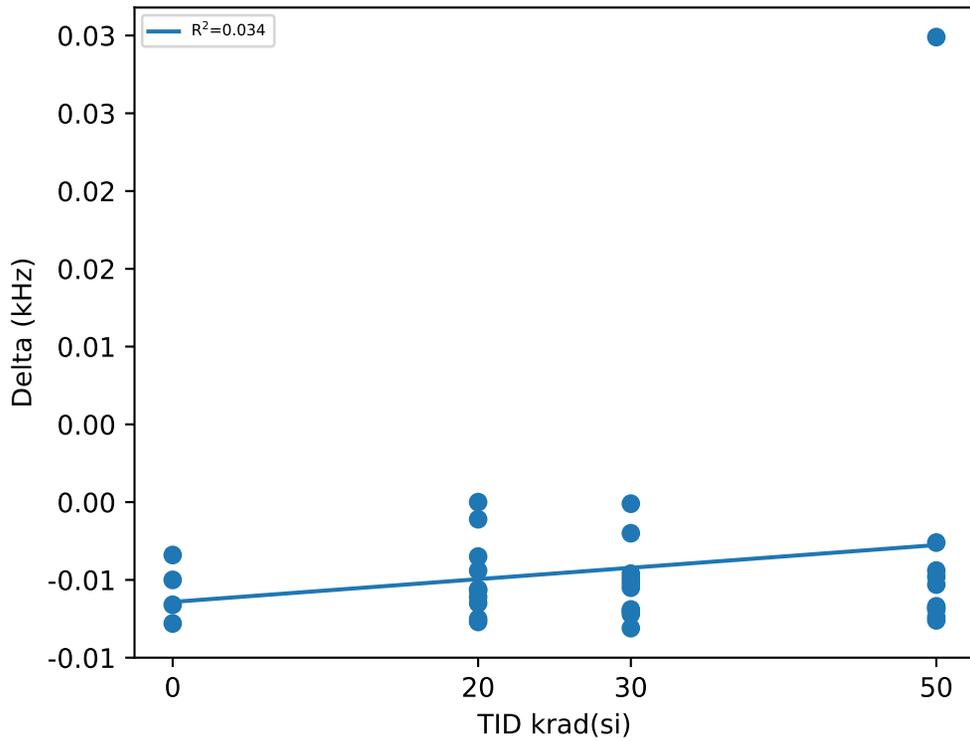
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.999	100	100	0.00068007	99.992	99.994	99.996	0.0015414	-0.0078	-0.0057	-0.0034	0.0019149
20	99.998	99.999	100	0.0012054	99.993	99.995	100	0.0024217	-0.0077	-0.00481	0	0.0025886
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	40	40	0
22	20	HDR BIAS	40	40	0
23	20	HDR BIAS	40	40	0
24	20	HDR BIAS	40	40	0
25	20	HDR BIAS	40	40	0
26	20	HDR UNBIAS	40	40	0
27	20	HDR UNBIAS	40	40	0
28	20	HDR UNBIAS	40	40	0
29	20	HDR UNBIAS	40	40	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	60	60	0
22	20	HDR BIAS	60	60	0
23	20	HDR BIAS	60	60	0
24	20	HDR BIAS	60	60	0
25	20	HDR BIAS	60	60	0
26	20	HDR UNBIAS	60	60	0
27	20	HDR UNBIAS	60	60	0
28	20	HDR UNBIAS	60	60	0
29	20	HDR UNBIAS	60	60	0
30	20	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
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
20	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

Device Test: 20.35 LEVEL|FREQ/RT/12/12/0/0/5/200kHz//@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
21	20	HDR BIAS	191.91	191	-0.912
22	20	HDR BIAS	196.03	195.25	-0.7892
23	20	HDR BIAS	192.12	192.39	0.2715
24	20	HDR BIAS	193.23	193.7	0.4767
25	20	HDR BIAS	189.92	189.61	-0.3153
26	20	HDR UNBIAS	191.82	191.88	0.0644
27	20	HDR UNBIAS	194.55	194.3	-0.2501
28	20	HDR UNBIAS	192.76	193.43	0.6759
29	20	HDR UNBIAS	195.55	194.84	-0.7154
30	20	HDR UNBIAS	190.48	189.91	-0.5774
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
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)
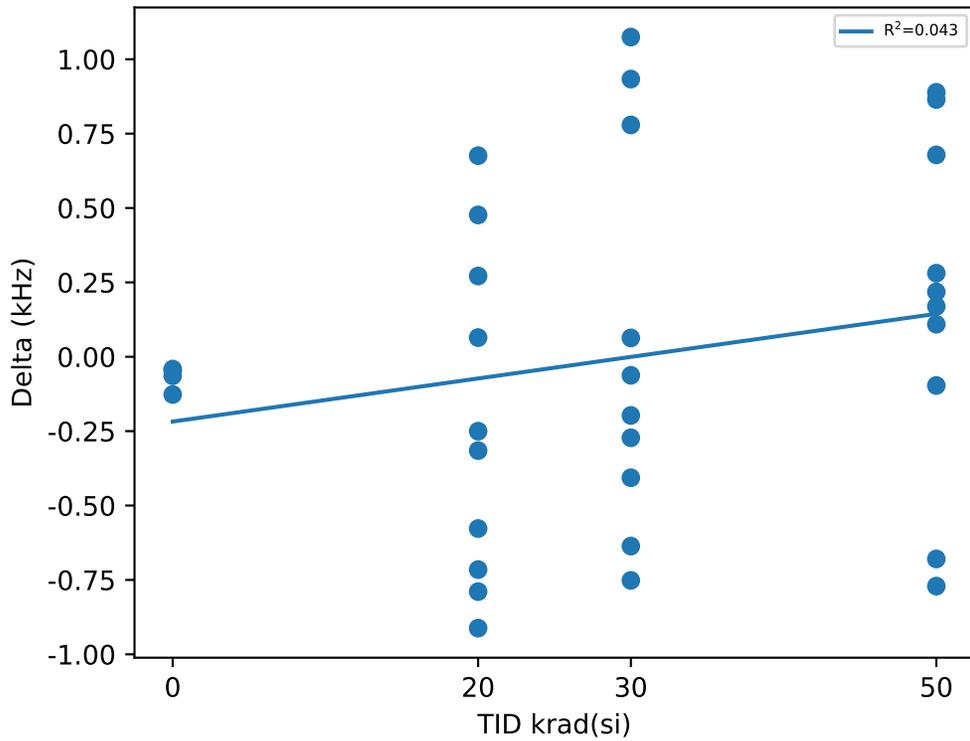
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.18	194.48	195.49	1.1425	193.14	194.41	195.43	1.1507	-0.1269	-0.069475	-0.0414	0.039491
20	189.92	192.84	196.03	2.0313	189.61	192.63	195.25	2.0036	-0.912	-0.20709	0.6759	0.55726
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
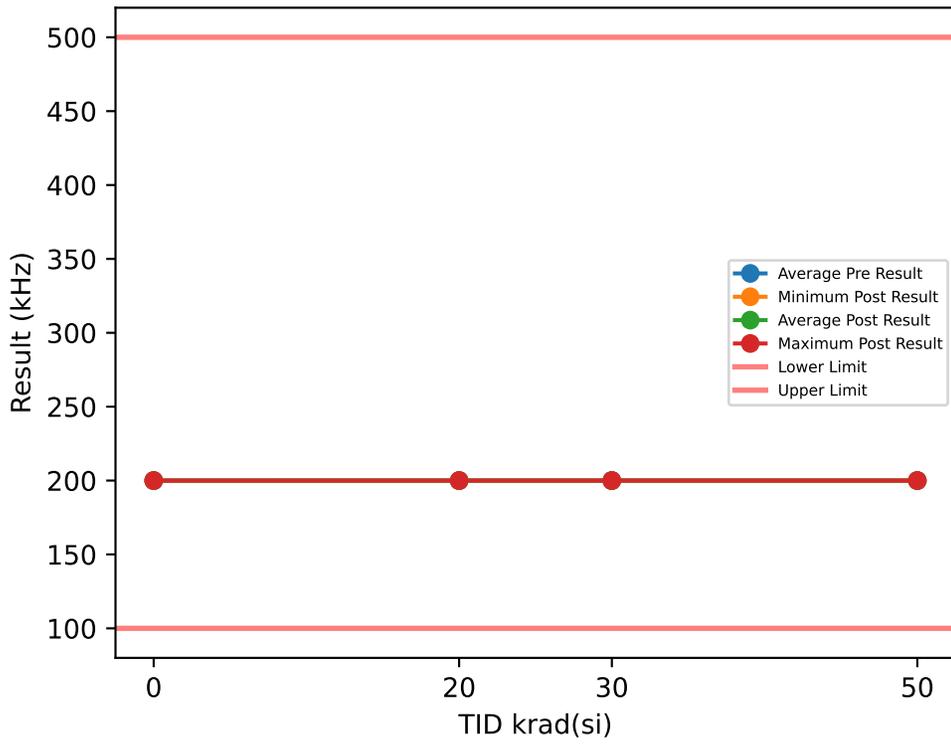
Device Test: 20.36 LEVEL|FREQ/SYNC/12/12/0/0/5/200kHz//@FREQ_SYNC_EXT_503X

TID vs Result Stats

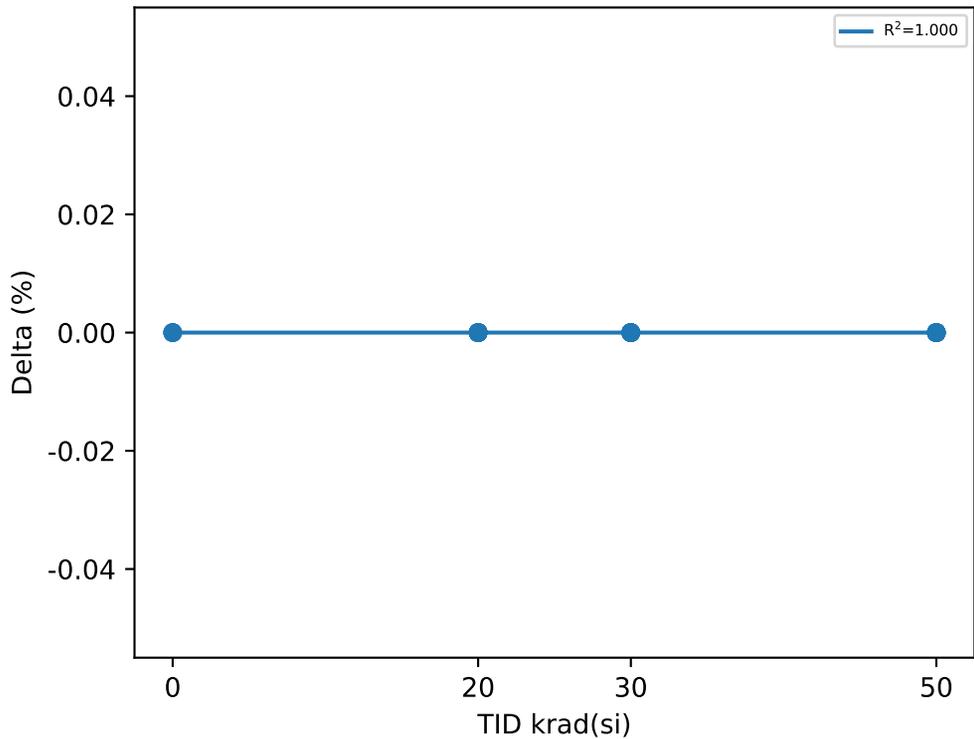## TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	199.99	199.98	-0.0103
22	20	HDR BIAS	200	199.97	-0.0309
23	20	HDR BIAS	200.01	199.97	-0.0365
24	20	HDR BIAS	200	199.98	-0.0235
25	20	HDR BIAS	199.99	199.98	-0.0105
26	20	HDR UNBIAS	200	199.98	-0.0186
27	20	HDR UNBIAS	200	199.97	-0.0263
28	20	HDR UNBIAS	200	199.98	-0.016
29	20	HDR UNBIAS	200	199.98	-0.0271
30	20	HDR UNBIAS	199.99	199.98	-0.0146
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
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)
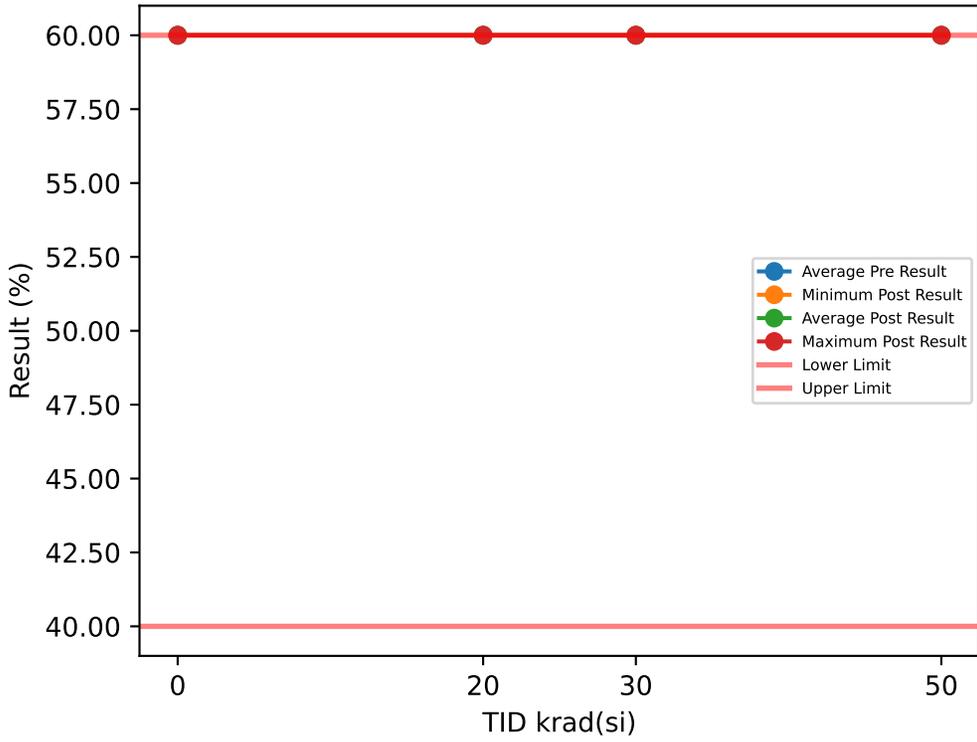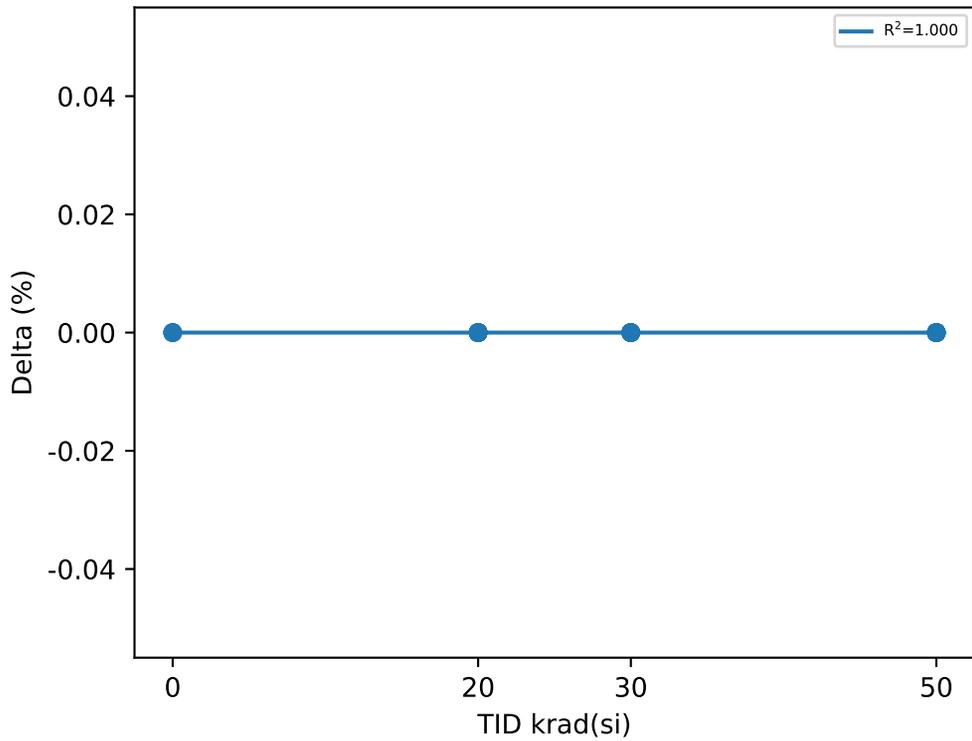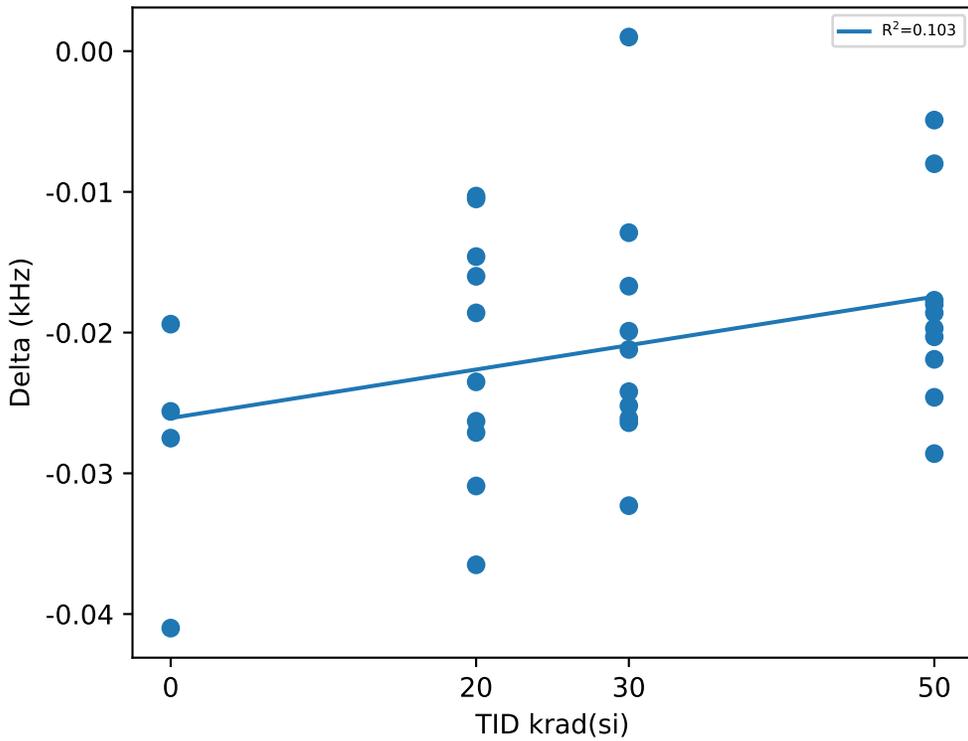
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200	200	200.01	0.0040186	199.96	199.97	199.99	0.012965	-0.041	-0.028375	-0.0194	0.0090996
20	199.99	200	200.01	0.0047376	199.97	199.98	199.98	0.0043932	-0.0365	-0.02143	-0.0103	0.008847
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
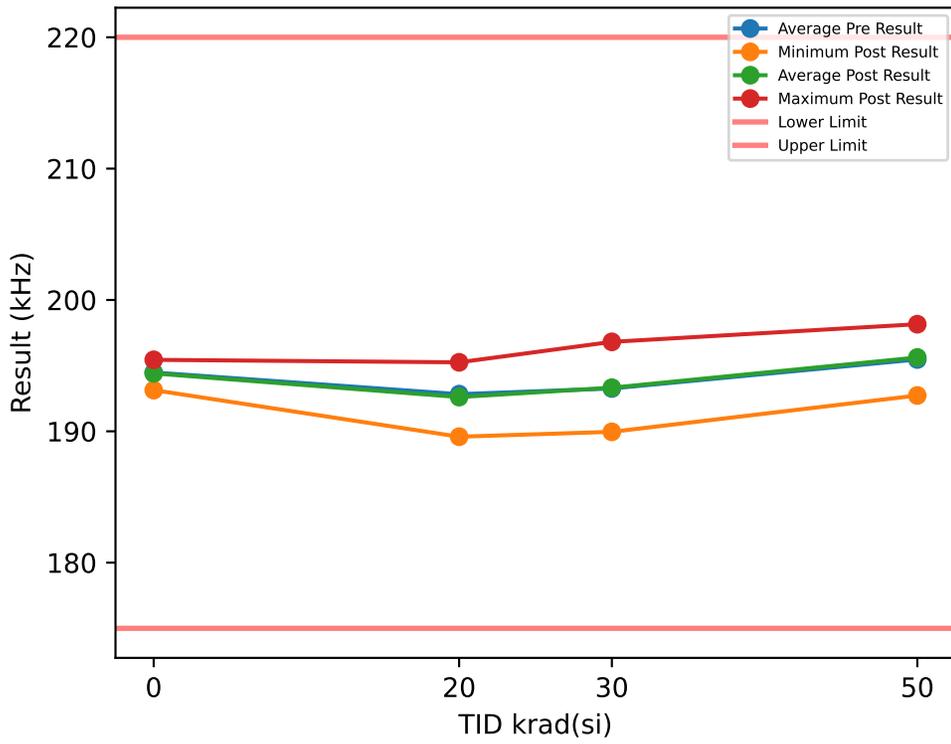
Device Test: 20.37 LEVEL|FREQ/RT/14/14/0/0/5/200kHz//@FSW_EXT_RT_B

## 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
21	20	HDR BIAS	191.92	190.96	-0.9571
22	20	HDR BIAS	196	195.25	-0.7527
23	20	HDR BIAS	192.08	192.36	0.2794
24	20	HDR BIAS	193.22	193.66	0.4407
25	20	HDR BIAS	189.95	189.59	-0.3607
26	20	HDR UNBIAS	191.82	191.86	0.0363
27	20	HDR UNBIAS	194.57	194.25	-0.3148
28	20	HDR UNBIAS	192.75	193.38	0.6381
29	20	HDR UNBIAS	195.52	194.84	-0.6831
30	20	HDR UNBIAS	190.46	189.92	-0.543
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
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)
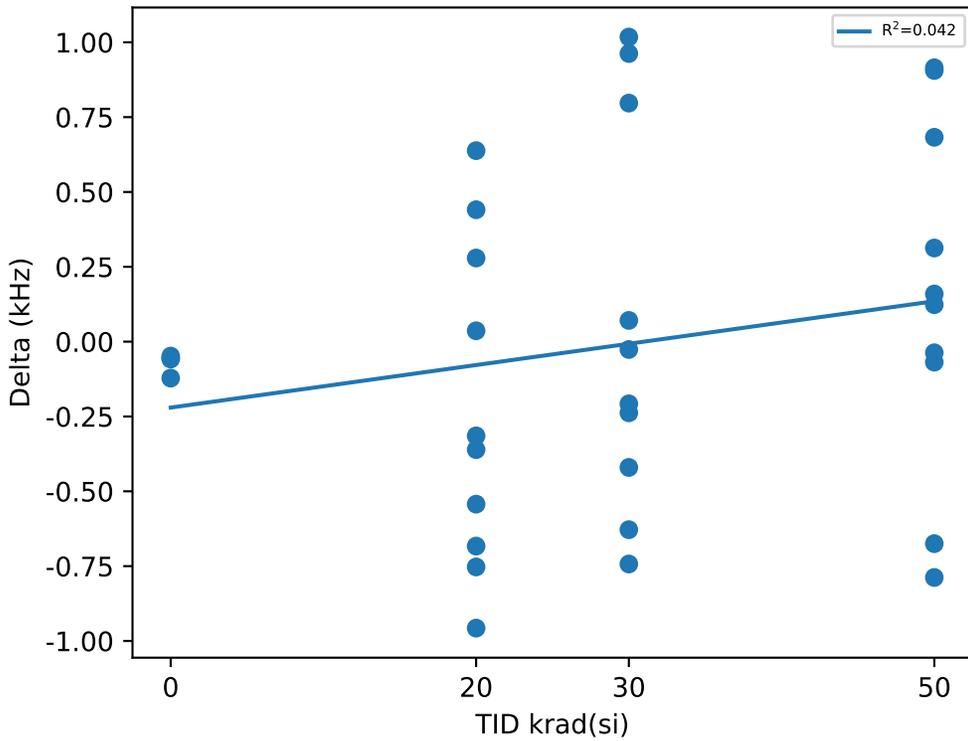
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.19	194.48	195.5	1.1405	193.14	194.41	195.44	1.1499	-0.1218	-0.0707	-0.0483	0.034307
20	189.95	192.83	196	2.0217	189.59	192.61	195.25	2.0013	-0.9571	-0.22169	0.6381	0.54391
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
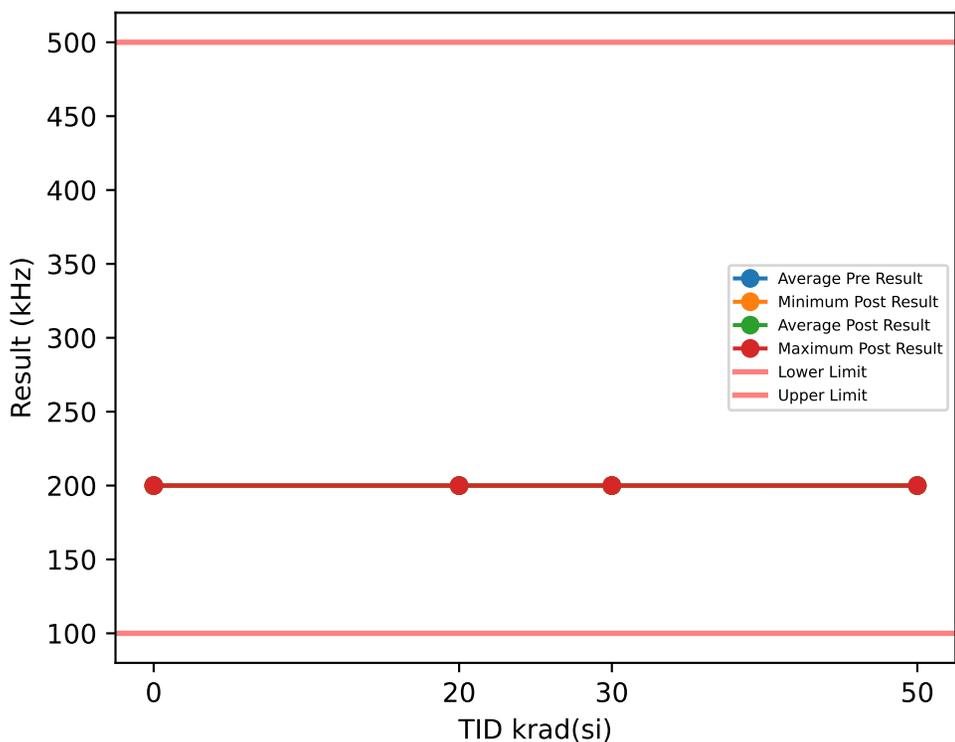
Device Test: 20.38 LEVEL|FREQ/SYNC/14/14/0/0/5/200kHz//@FREQ_SYNC_EXT_503X

## 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
21	20	HDR BIAS	200	199.98	-0.0198
22	20	HDR BIAS	200	199.98	-0.0245
23	20	HDR BIAS	200	199.97	-0.027
24	20	HDR BIAS	200	199.98	-0.0142
25	20	HDR BIAS	199.99	199.99	-0.0045
26	20	HDR UNBIAS	200	199.97	-0.028
27	20	HDR UNBIAS	200	199.98	-0.0224
28	20	HDR UNBIAS	199.99	199.98	-0.016
29	20	HDR UNBIAS	199.99	199.98	-0.0162
30	20	HDR UNBIAS	200	199.98	-0.0232
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
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)
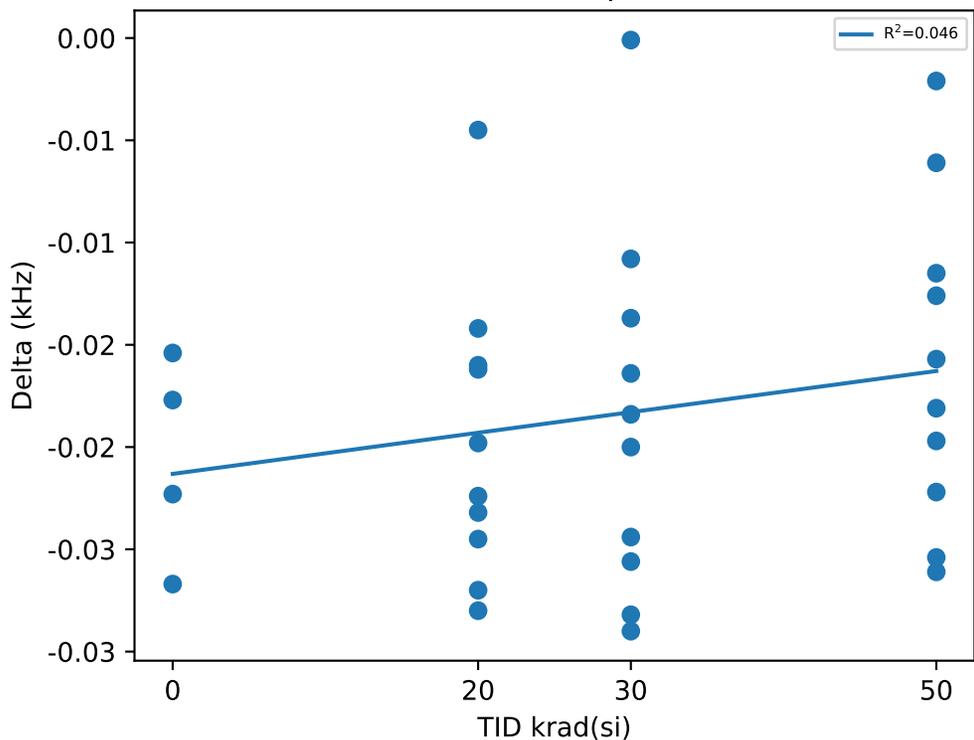
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200	200	200	0.0027158	199.97	199.98	199.99	0.0067838	-0.0267	-0.020525	-0.0154	0.0050176
20	199.99	200	200	0.0037002	199.97	199.98	199.99	0.0047624	-0.028	-0.01958	-0.0045	0.0070856
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
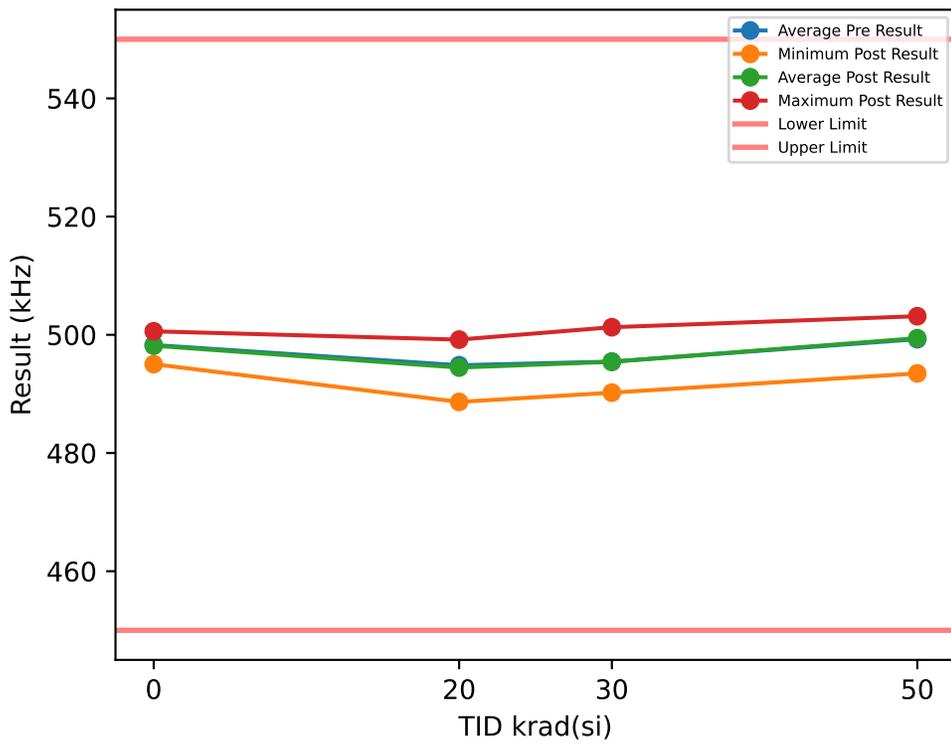
Device Test: 20.39 LEVEL|FREQ/RT/12/12/0/0/5/500kHz//@FSW_EXT_RT_C

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	492.56	491.43	-1.1329
22	20	HDR BIAS	499.95	498.64	-1.3104
23	20	HDR BIAS	494.32	494.6	0.2813
24	20	HDR BIAS	495.45	496.33	0.8857
25	20	HDR BIAS	490.21	489.72	-0.4921
26	20	HDR UNBIAS	493.73	493.27	-0.4556
27	20	HDR UNBIAS	497.47	497.07	-0.4022
28	20	HDR UNBIAS	494.96	495.68	0.7124
29	20	HDR UNBIAS	500	499.18	-0.8192
30	20	HDR UNBIAS	489.84	488.64	-1.1967
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
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)
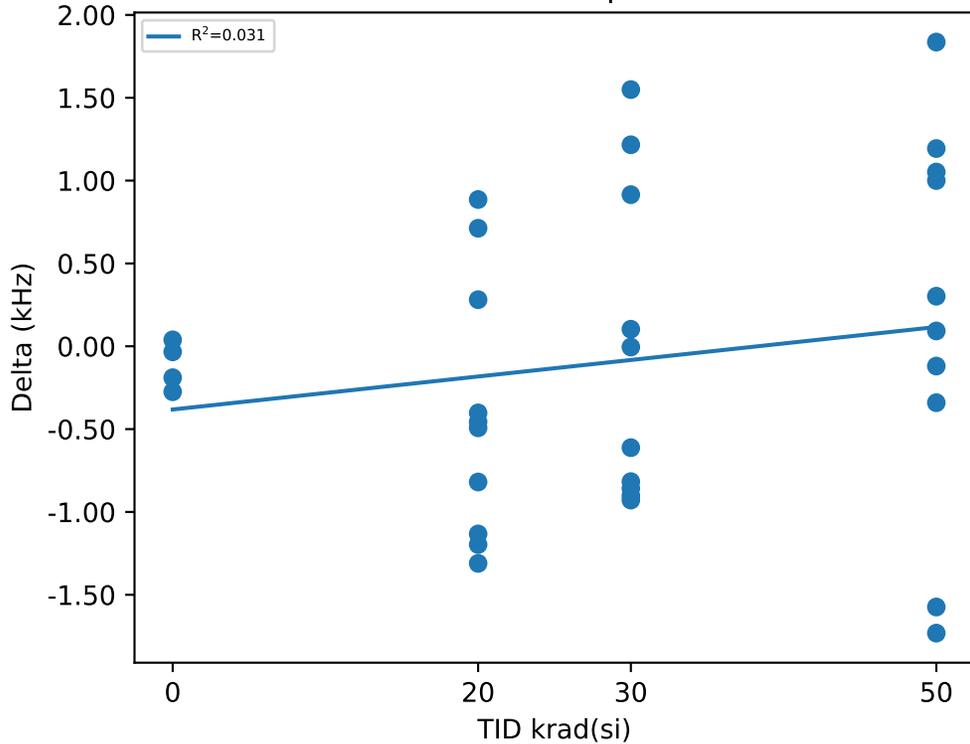
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	495.07	498.27	500.86	2.6138	495.04	498.16	500.59	2.5721	-0.2745	-0.11475	0.0388	0.14295
20	489.84	494.85	500	3.5461	488.64	494.46	499.18	3.6284	-1.3104	-0.39297	0.8857	0.78473
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
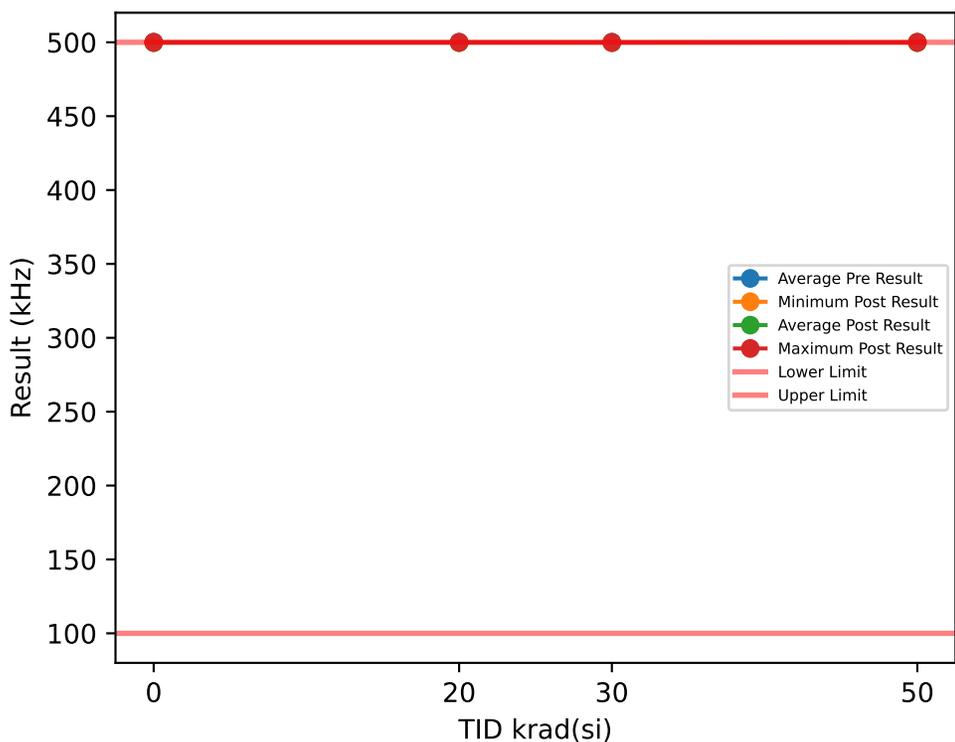
Device Test: 20.40 LEVEL|FREQ/SYNC/12/12/0/0/5/500kHz//@FREQ_SYNC_EXT_503X

## 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
21	20	HDR BIAS	500	499.94	-0.0651
22	20	HDR BIAS	500	499.88	-0.1203
23	20	HDR BIAS	499.98	499.85	-0.1303
24	20	HDR BIAS	499.94	499.85	-0.0939
25	20	HDR BIAS	500	499.92	-0.0815
26	20	HDR UNBIAS	500.02	499.86	-0.1593
27	20	HDR UNBIAS	499.94	499.85	-0.0922
28	20	HDR UNBIAS	500.01	499.85	-0.1637
29	20	HDR UNBIAS	500	499.9	-0.1015
30	20	HDR UNBIAS	500	499.82	-0.1745
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
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)
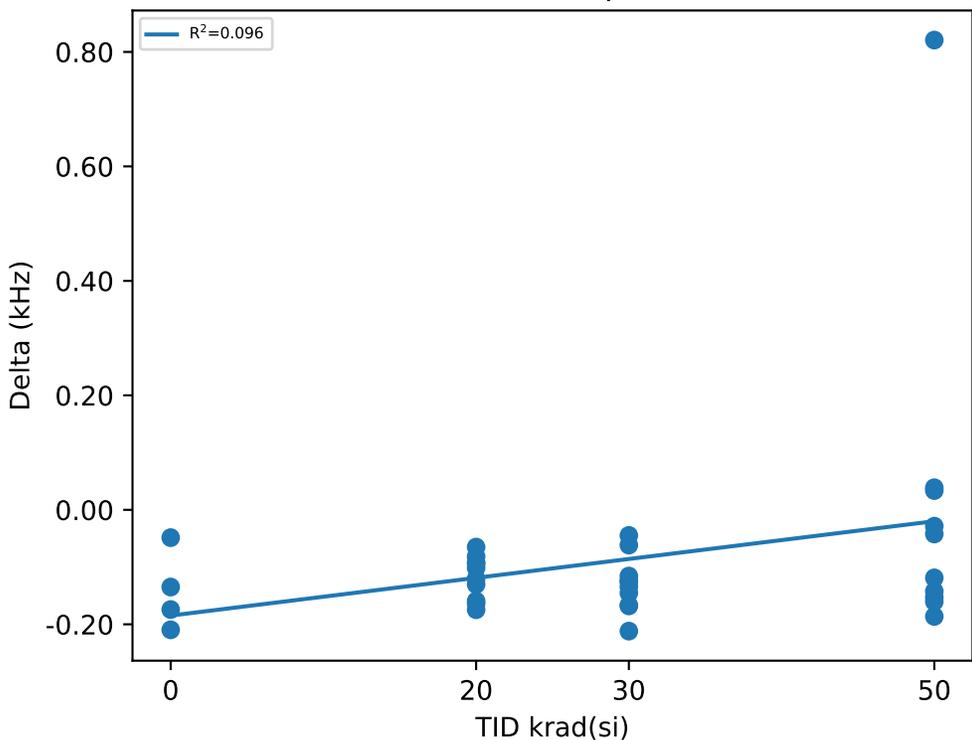
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500	500.01	500.02	0.010347	499.8	499.87	499.97	0.071745	-0.2096	-0.14183	-0.0486	0.069235
20	499.94	499.99	500.02	0.027106	499.82	499.87	499.94	0.036517	-0.1745	-0.11823	-0.0651	0.0377
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	40	40	0
22	20	HDR BIAS	40	40	0
23	20	HDR BIAS	40	40	0
24	20	HDR BIAS	40	40	0
25	20	HDR BIAS	40	40	0
26	20	HDR UNBIAS	40	40	0
27	20	HDR UNBIAS	40	40	0
28	20	HDR UNBIAS	40	40	0
29	20	HDR UNBIAS	40	40	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	60	60	0
22	20	HDR BIAS	60	60	0
23	20	HDR BIAS	60	60	0
24	20	HDR BIAS	60	60	0
25	20	HDR BIAS	60	60	0
26	20	HDR UNBIAS	60	60	0
27	20	HDR UNBIAS	60	60	0
28	20	HDR UNBIAS	60	60	0
29	20	HDR UNBIAS	60	60	0
30	20	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
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
20	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

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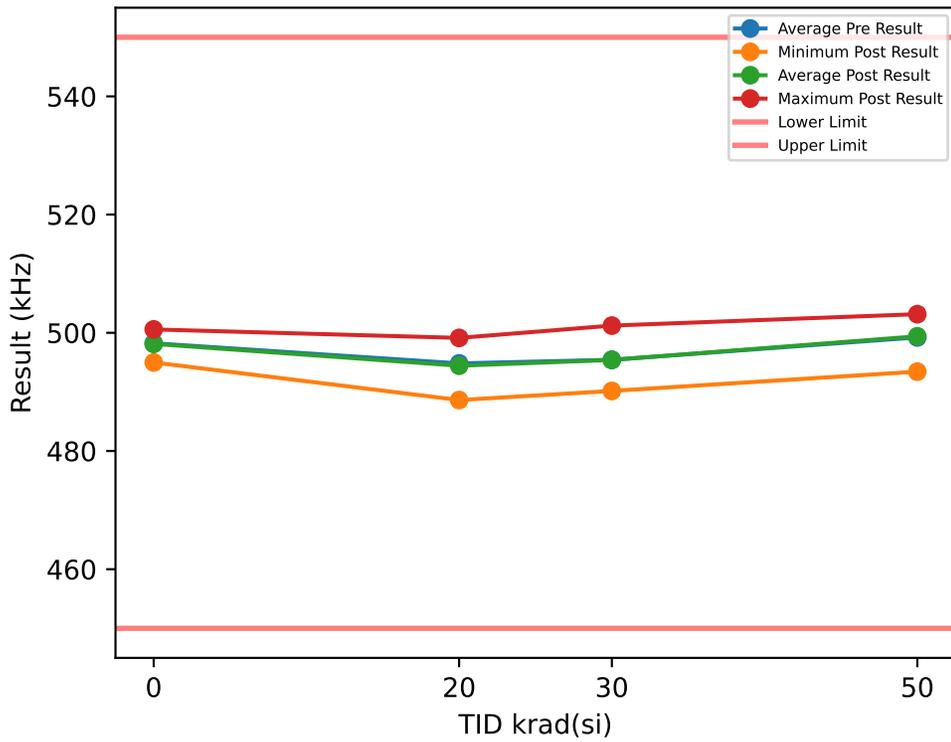
TID vs Result Stats


TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	492.53	491.45	-1.0808
22	20	HDR BIAS	499.91	498.57	-1.3461
23	20	HDR BIAS	494.26	494.51	0.2572
24	20	HDR BIAS	495.42	496.34	0.9172
25	20	HDR BIAS	490.25	489.73	-0.5257
26	20	HDR UNBIAS	493.72	493.23	-0.4827
27	20	HDR UNBIAS	497.42	496.99	-0.4352
28	20	HDR UNBIAS	494.93	495.72	0.7953
29	20	HDR UNBIAS	499.99	499.13	-0.8501
30	20	HDR UNBIAS	489.82	488.62	-1.2
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
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)
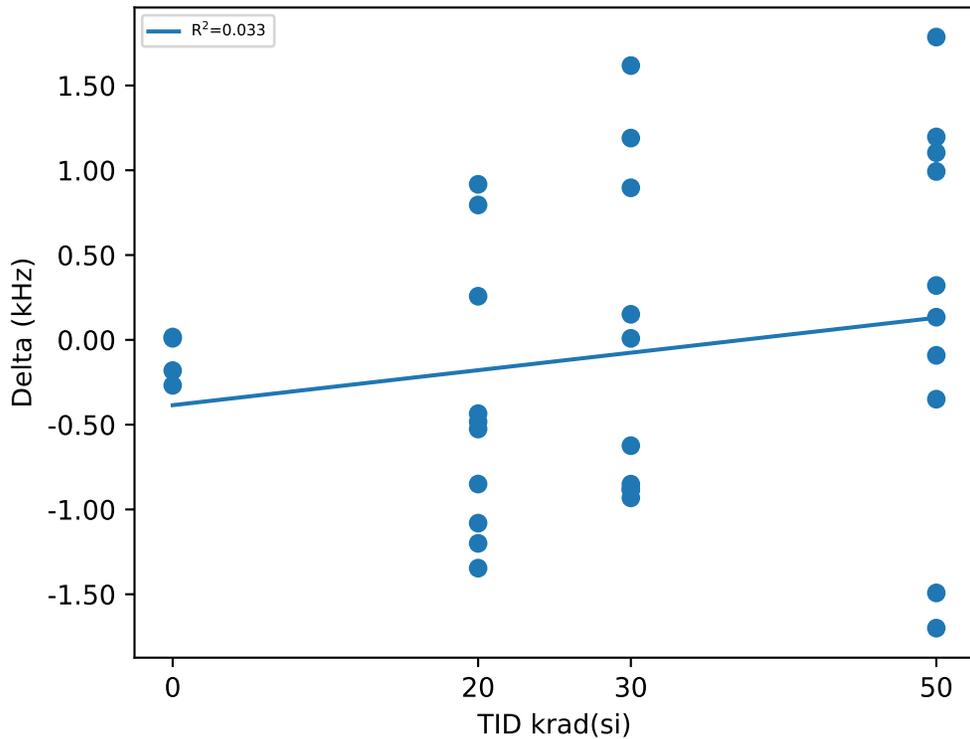
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.97	498.23	500.84	2.6477	494.98	498.12	500.57	2.5845	-0.2681	-0.1059	0.0166	0.14171
20	489.82	494.82	499.99	3.5334	488.62	494.43	499.13	3.6095	-1.3461	-0.39509	0.9172	0.80419
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
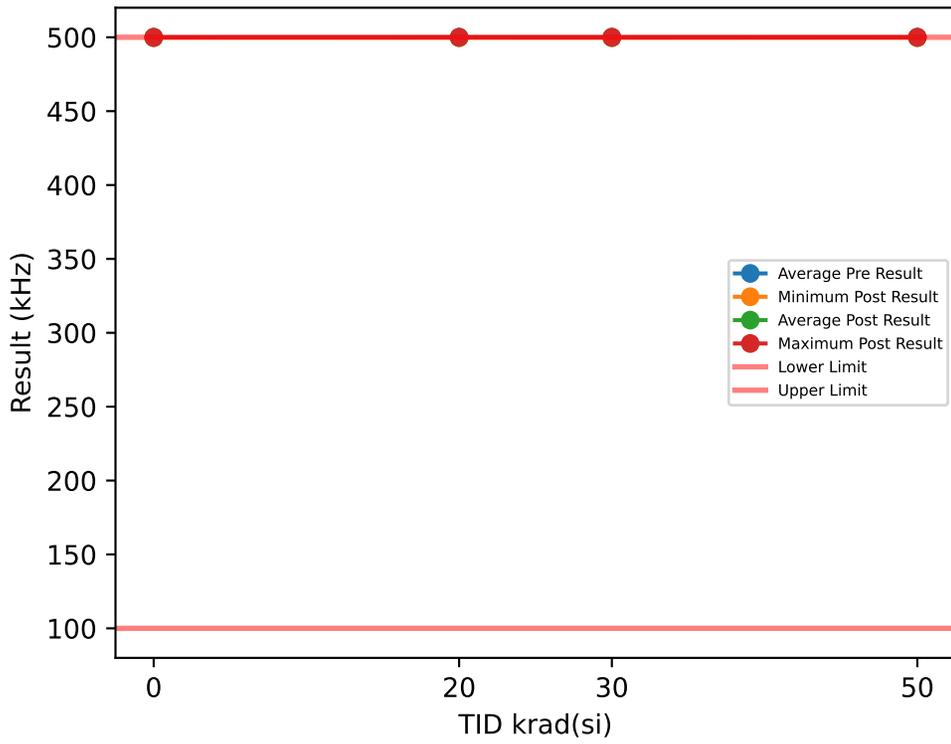
Device Test: 20.44 LEVEL|FREQ/SYNC/14/14/0/0/5/500kHz//@FREQ_SYNC_EXT_503X

TID vs Result Stats
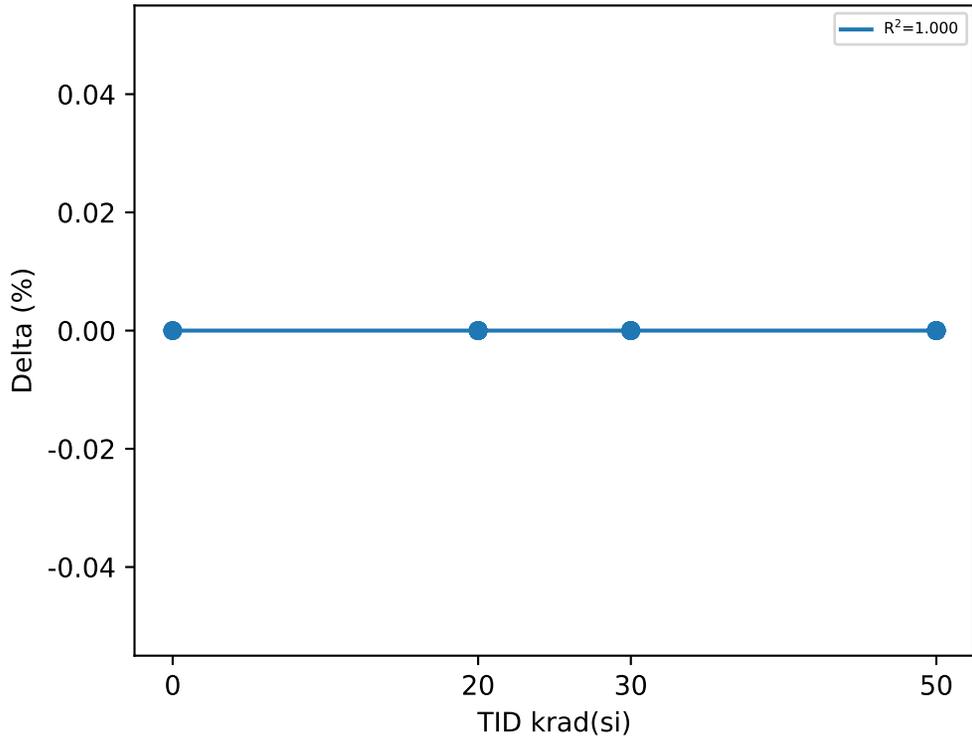

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	499.99	499.93	-0.0585
22	20	HDR BIAS	500.01	499.87	-0.1442
23	20	HDR BIAS	500.02	499.82	-0.2019
24	20	HDR BIAS	499.93	499.85	-0.0733
25	20	HDR BIAS	499.98	499.88	-0.1025
26	20	HDR UNBIAS	499.98	499.87	-0.1164
27	20	HDR UNBIAS	500	499.83	-0.1644
28	20	HDR UNBIAS	499.97	499.84	-0.1277
29	20	HDR UNBIAS	500.02	499.97	-0.0482
30	20	HDR UNBIAS	500.01	499.83	-0.1824
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
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)
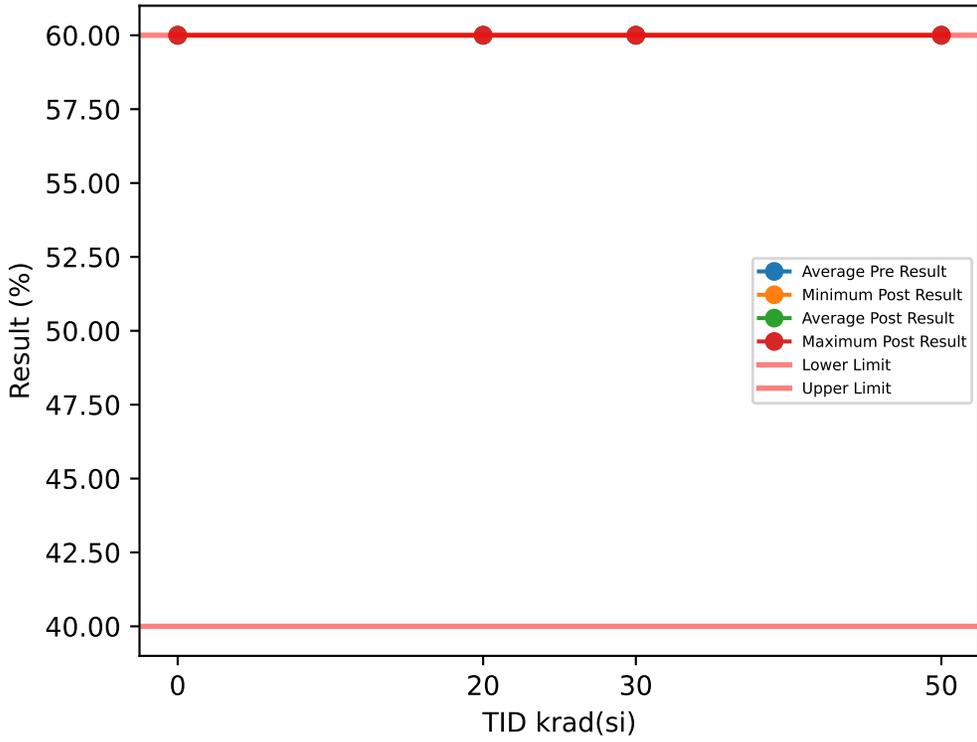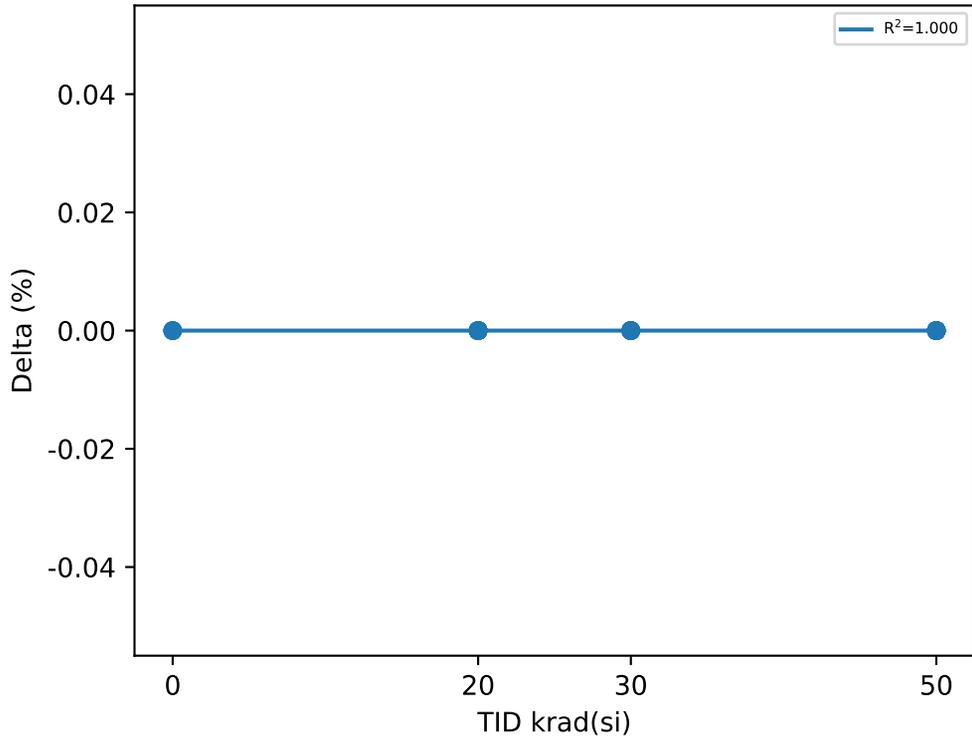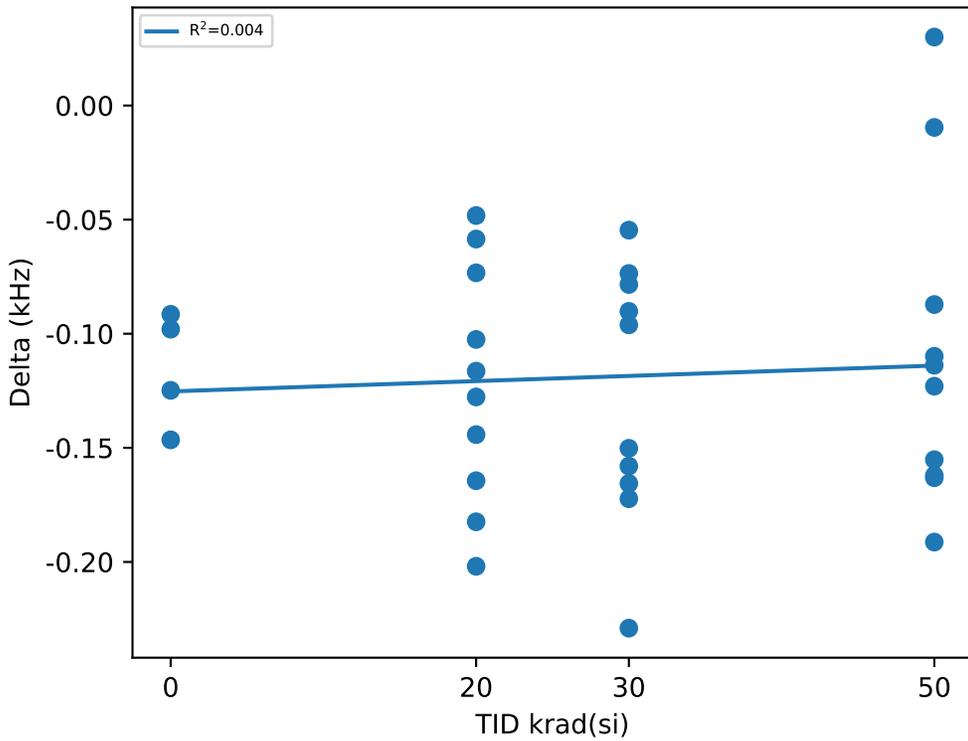
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.96	499.98	500.02	0.027814	499.81	499.87	499.93	0.051487	-0.1465	-0.1152	-0.0915	0.02536
20	499.93	499.99	500.02	0.028488	499.82	499.87	499.97	0.048645	-0.2019	-0.12195	-0.0482	0.0523
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	40	40	0
22	20	HDR BIAS	40	40	0
23	20	HDR BIAS	40	40	0
24	20	HDR BIAS	40	40	0
25	20	HDR BIAS	40	40	0
26	20	HDR UNBIAS	40	40	0
27	20	HDR UNBIAS	40	40	0
28	20	HDR UNBIAS	40	40	0
29	20	HDR UNBIAS	40	40	0
30	20	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
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
20	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

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

TID vs Result Stats

- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Lower Limit
- Upper Limit

TID vs Post - Pre Exposure Delta

R²=1.000

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	60	60	0
22	20	HDR BIAS	60	60	0
23	20	HDR BIAS	60	60	0
24	20	HDR BIAS	60	60	0
25	20	HDR BIAS	60	60	0
26	20	HDR UNBIAS	60	60	0
27	20	HDR UNBIAS	60	60	0
28	20	HDR UNBIAS	60	60	0
29	20	HDR UNBIAS	60	60	0
30	20	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
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
20	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

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

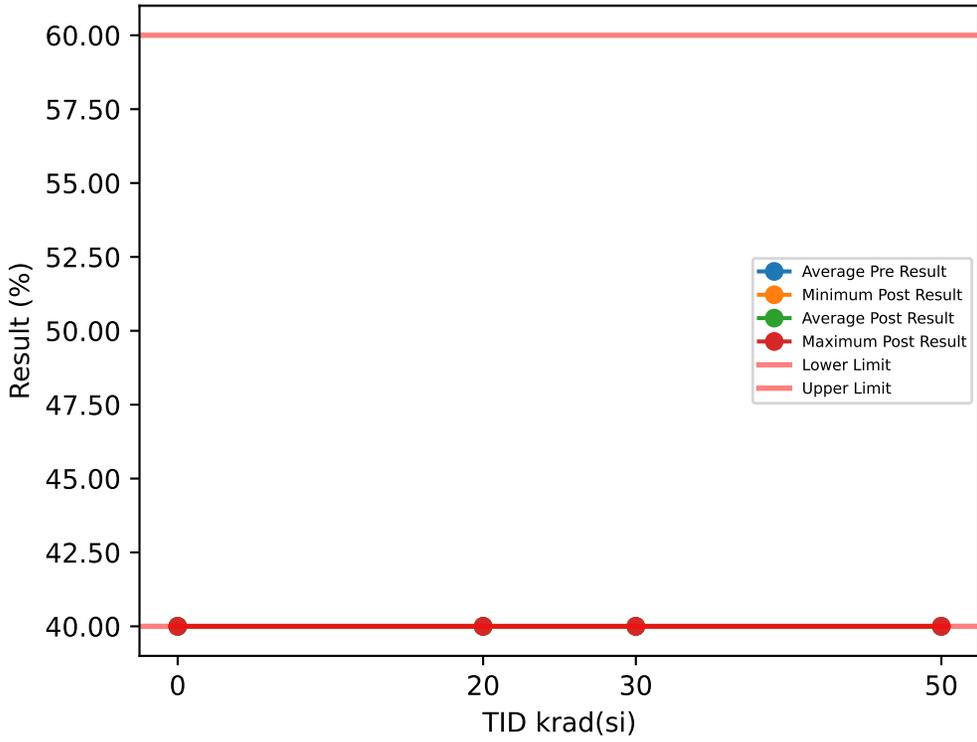| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	92.569	91.995	-0.5741
22	20	HDR BIAS	95.175	94.616	-0.5586
23	20	HDR BIAS	92.415	92.718	0.3023
24	20	HDR BIAS	93.345	93.608	0.2638
25	20	HDR BIAS	91.285	91.071	-0.2143
26	20	HDR UNBIAS	92.285	92.451	0.166
27	20	HDR UNBIAS	94.215	94.163	-0.0519
28	20	HDR UNBIAS	92.986	93.352	0.3659
29	20	HDR UNBIAS	94.689	94.257	-0.4316
30	20	HDR UNBIAS	91.728	91.463	-0.2656
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
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)
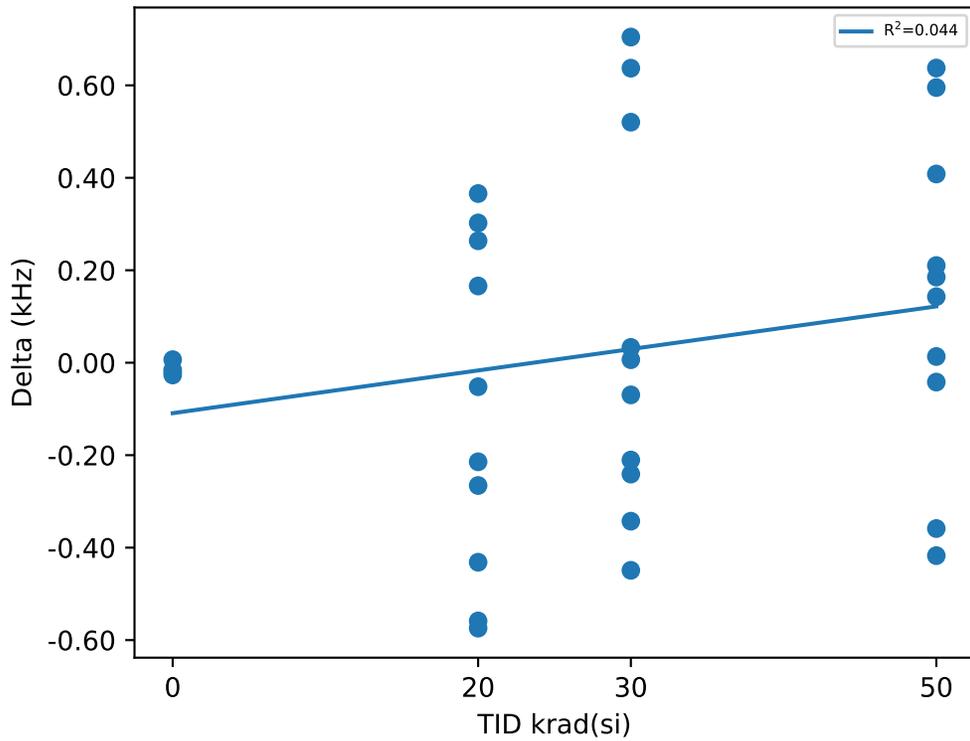
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.967	94.018	94.597	0.75345	92.974	94.005	94.57	0.74052	-0.0265	-0.01395	0.0066	0.014444
20	91.285	93.069	95.175	1.279	91.071	92.969	94.616	1.2249	-0.5741	-0.09981	0.3659	0.36053
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
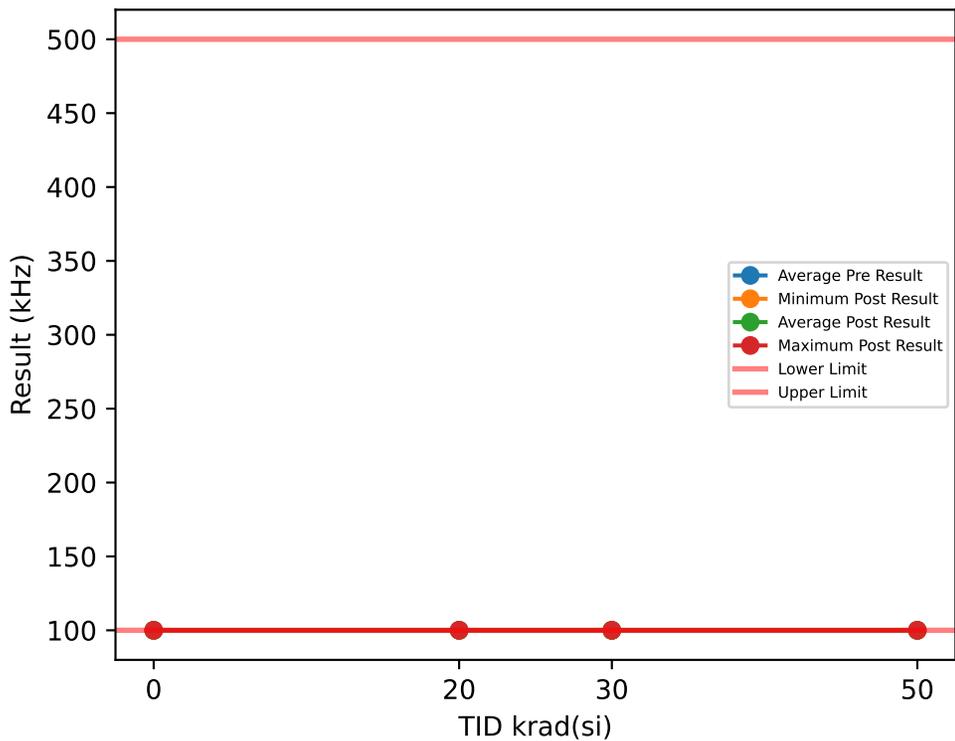
Device Test: 20.48 LEVEL|FREQ/SYNC/12/12/0/1000/5/100kHz//@FREQ_SYNC_EXT_503X

TID vs Result Stats
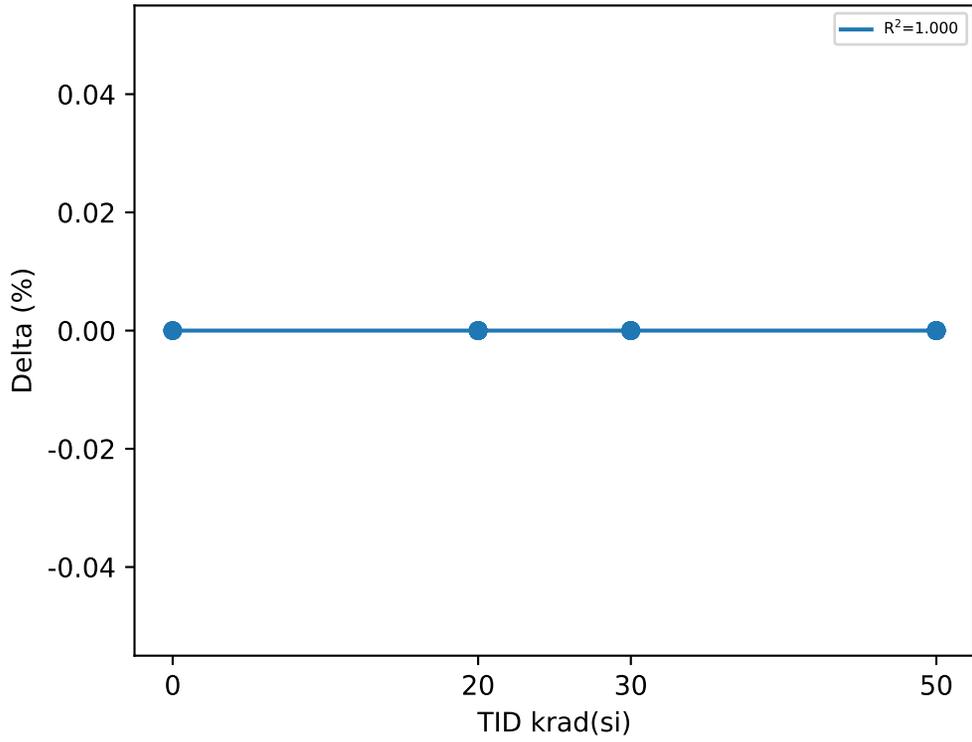

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	99.998	99.995	-0.0029
22	20	HDR BIAS	99.999	99.993	-0.0064
23	20	HDR BIAS	100	99.993	-0.0064
24	20	HDR BIAS	99.998	99.994	-0.0044
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	99.995	-0.0047
27	20	HDR UNBIAS	99.998	99.994	-0.0047
28	20	HDR UNBIAS	99.998	99.995	-0.0032
29	20	HDR UNBIAS	100	99.997	-0.0027
30	20	HDR UNBIAS	100	99.993	-0.0072
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
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

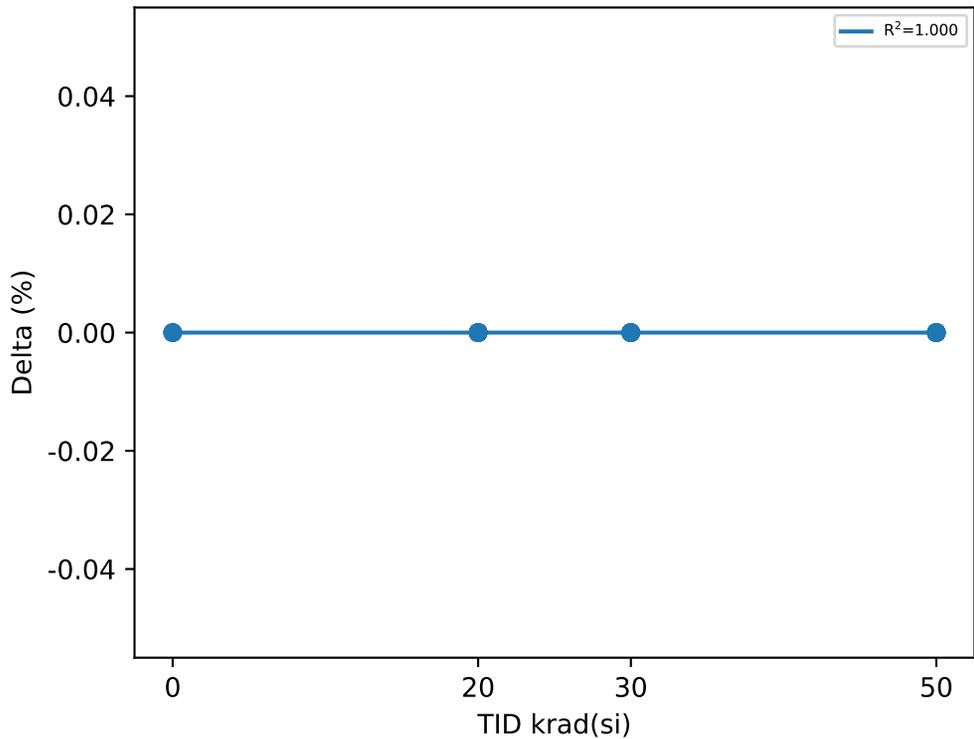## Test Statistics (kHz)
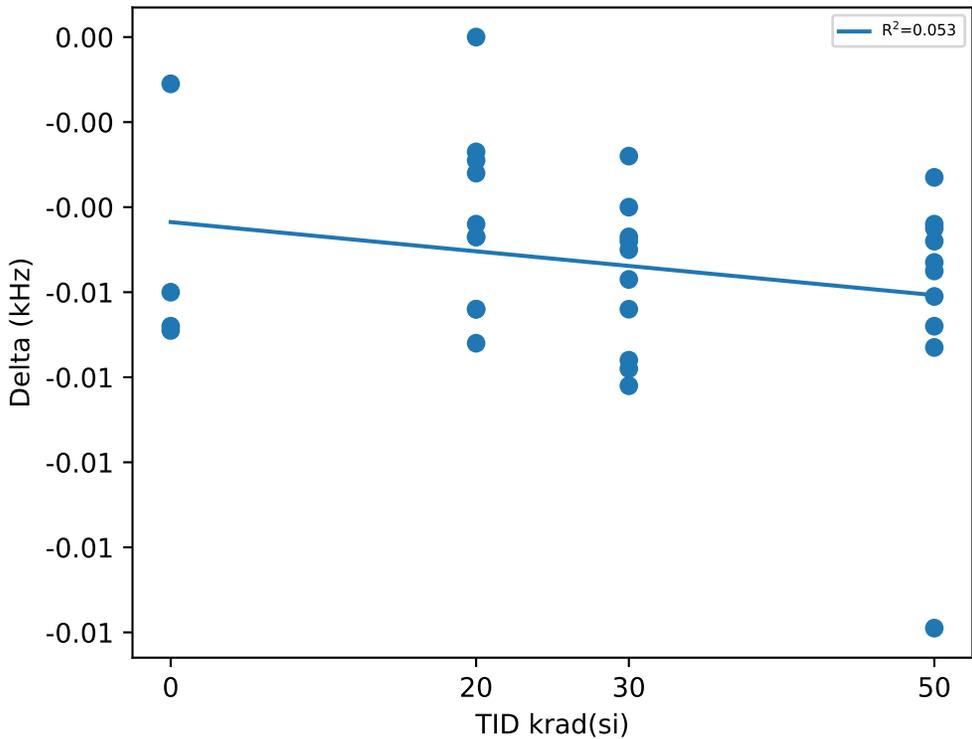
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.999	99.999	100	0.00046547	99.992	99.994	99.999	0.0031268	-0.0069	-0.0052	-0.0011	0.0027628
20	99.998	99.999	100	0.00080146	99.993	99.995	100	0.0023109	-0.0072	-0.00426	0	0.0021542
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

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

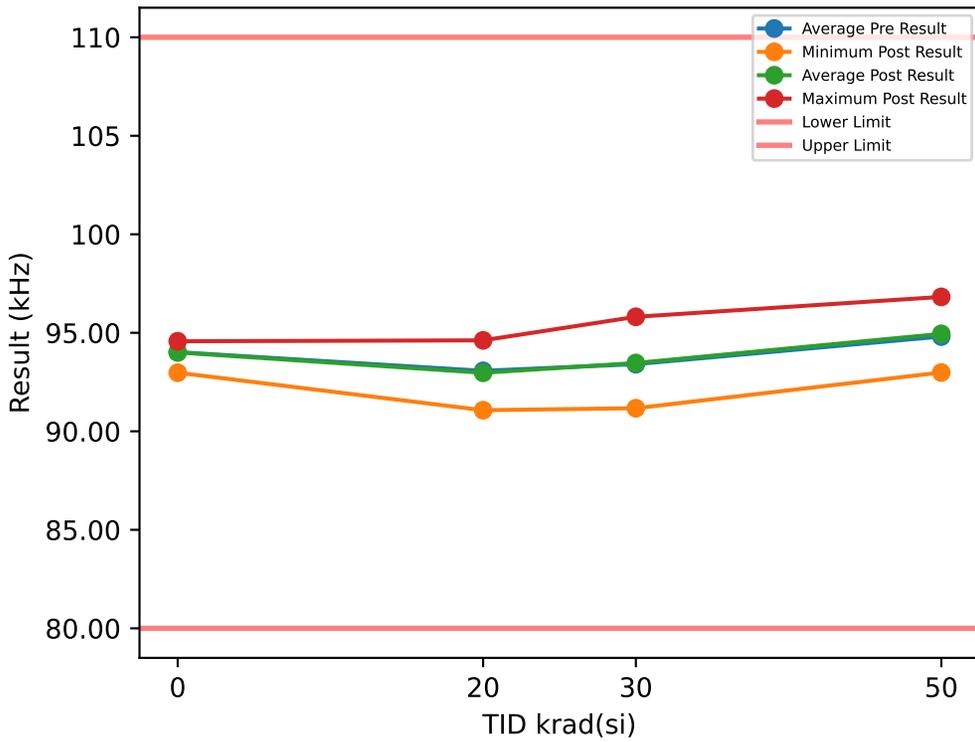| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	92.553	91.991	-0.5618
22	20	HDR BIAS	95.144	94.615	-0.5291
23	20	HDR BIAS	92.401	92.717	0.3158
24	20	HDR BIAS	93.325	93.604	0.2791
25	20	HDR BIAS	91.291	91.052	-0.2386
26	20	HDR UNBIAS	92.283	92.451	0.1679
27	20	HDR UNBIAS	94.217	94.126	-0.0918
28	20	HDR UNBIAS	92.987	93.368	0.3817
29	20	HDR UNBIAS	94.685	94.254	-0.4308
30	20	HDR UNBIAS	91.718	91.461	-0.2572
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
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)
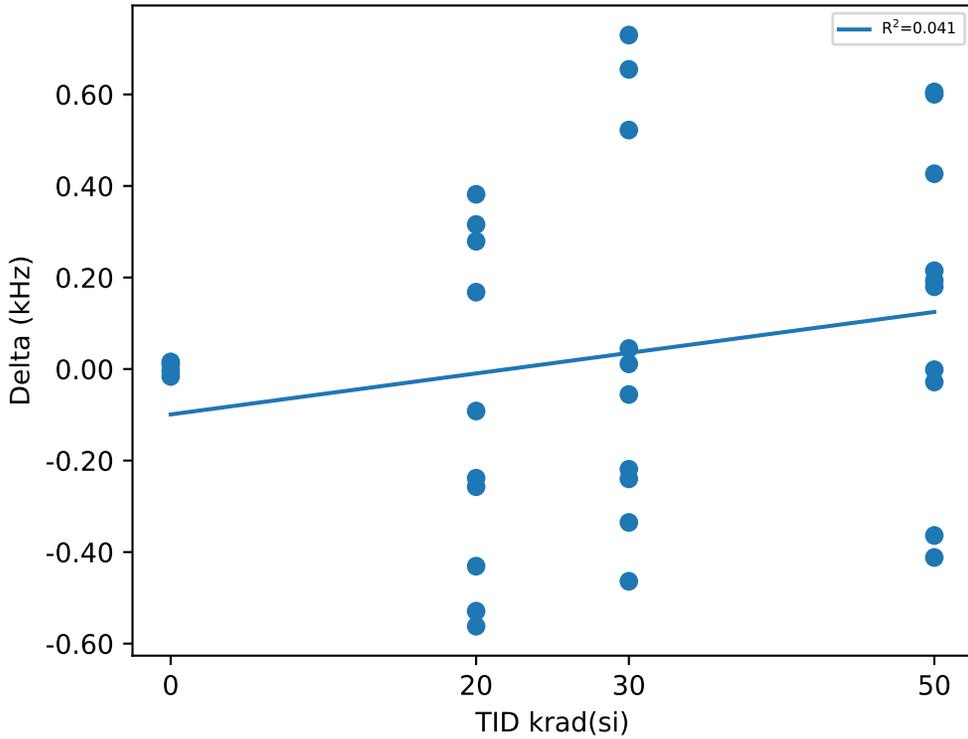
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	92.953	94.002	94.581	0.75138	92.969	94.003	94.565	0.74252	-0.0162	0.001225	0.0155	0.014467
20	91.291	93.06	95.144	1.2748	91.052	92.964	94.615	1.2247	-0.5618	-0.09648	0.3817	0.36072
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
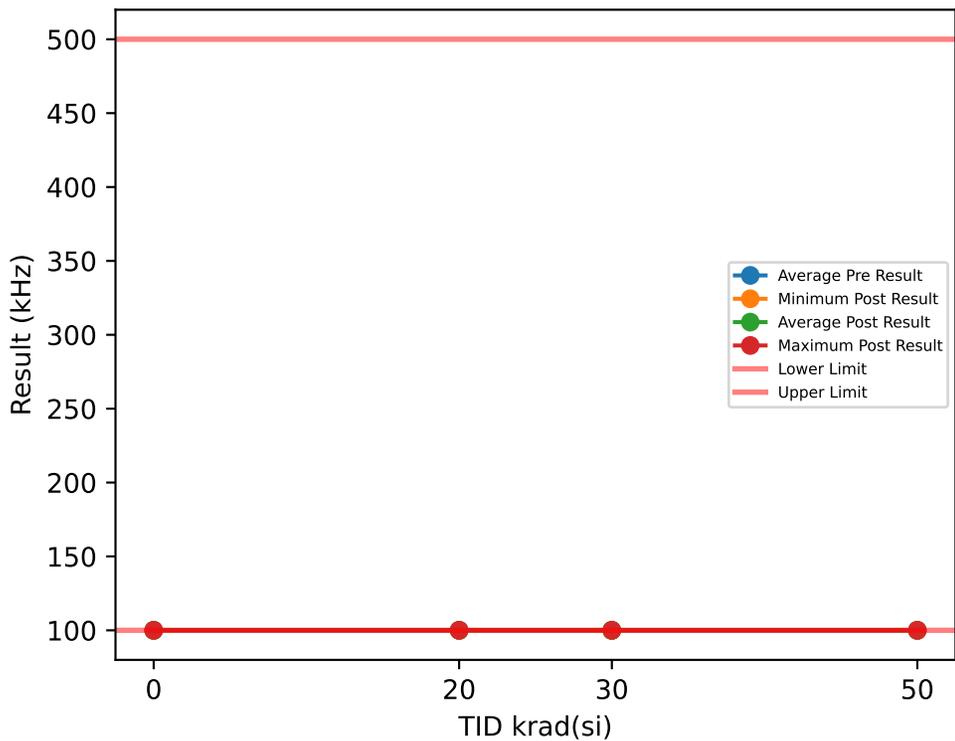
Device Test: 20.50 LEVEL|FREQ/SYNC/14/14/0/1000/5/100kHz//@FREQ_SYNC_EXT_503X

TID vs Result Stats

## TID vs Post - Pre Exposure Delta

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

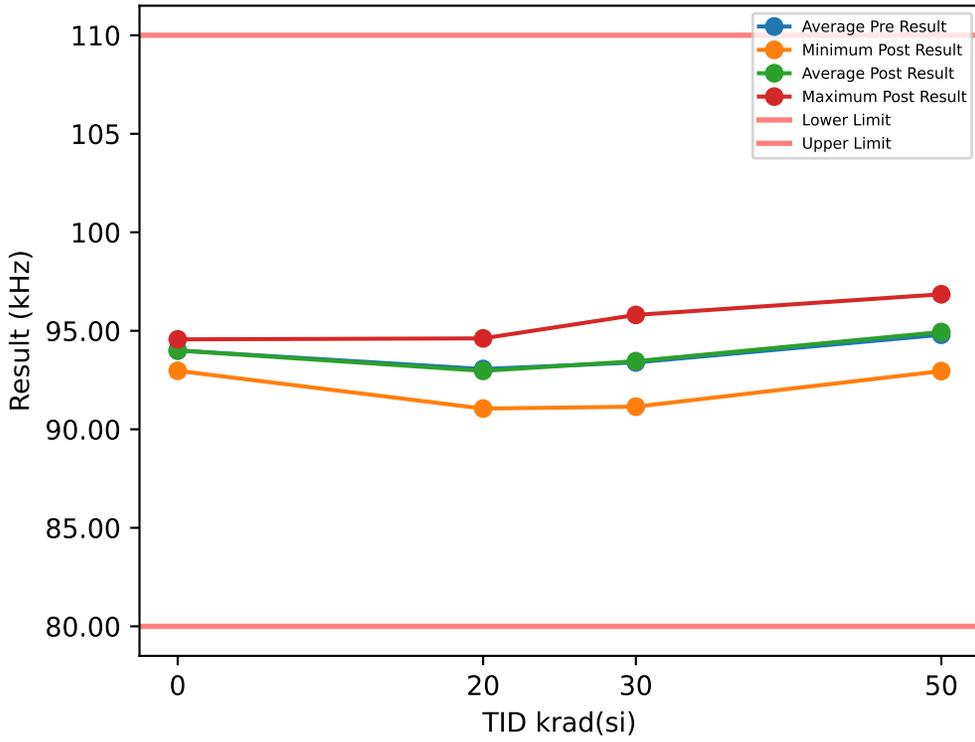| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	99.998	99.994	-0.0041
22	20	HDR BIAS	99.998	99.993	-0.0051
23	20	HDR BIAS	100	99.993	-0.0082
24	20	HDR BIAS	99.998	99.995	-0.0027
25	20	HDR BIAS	100	99.994	-0.0063
26	20	HDR UNBIAS	99.998	99.993	-0.0058
27	20	HDR UNBIAS	99.999	99.993	-0.0054
28	20	HDR UNBIAS	99.999	99.995	-0.0041
29	20	HDR UNBIAS	100	99.998	-0.0019
30	20	HDR UNBIAS	99.999	99.995	-0.0041
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
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)
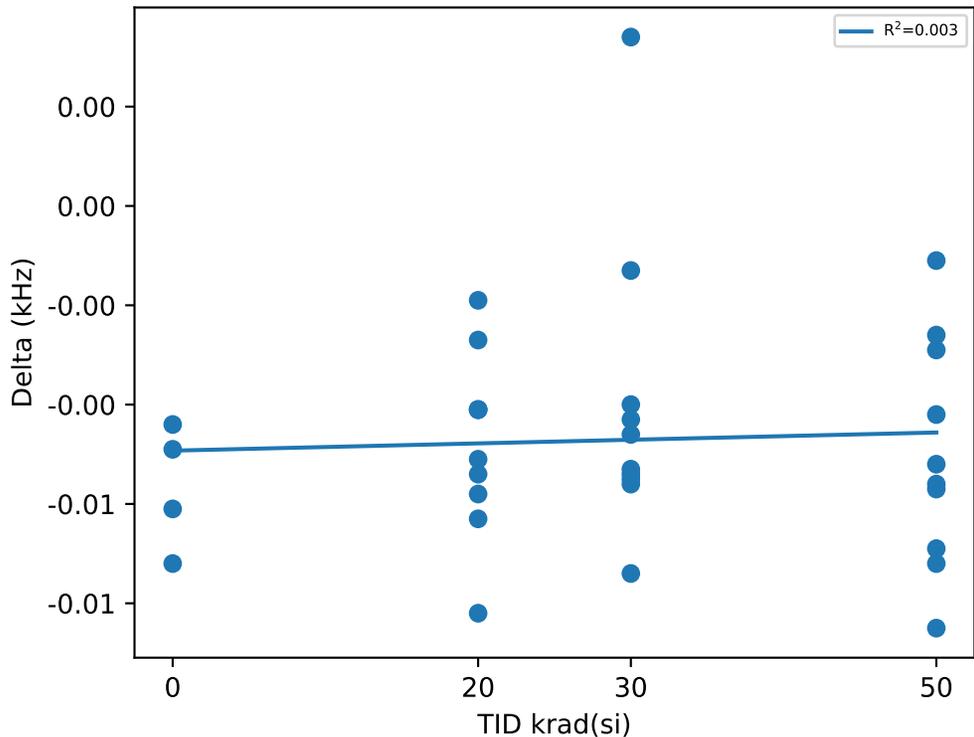
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.999	100	100	0.00046458	99.993	99.994	99.995	0.00081394	-0.0072	-0.00565	-0.0044	0.0012557
20	99.998	99.999	100	0.00091415	99.993	99.994	99.998	0.0016653	-0.0082	-0.00477	-0.0019	0.0018117
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
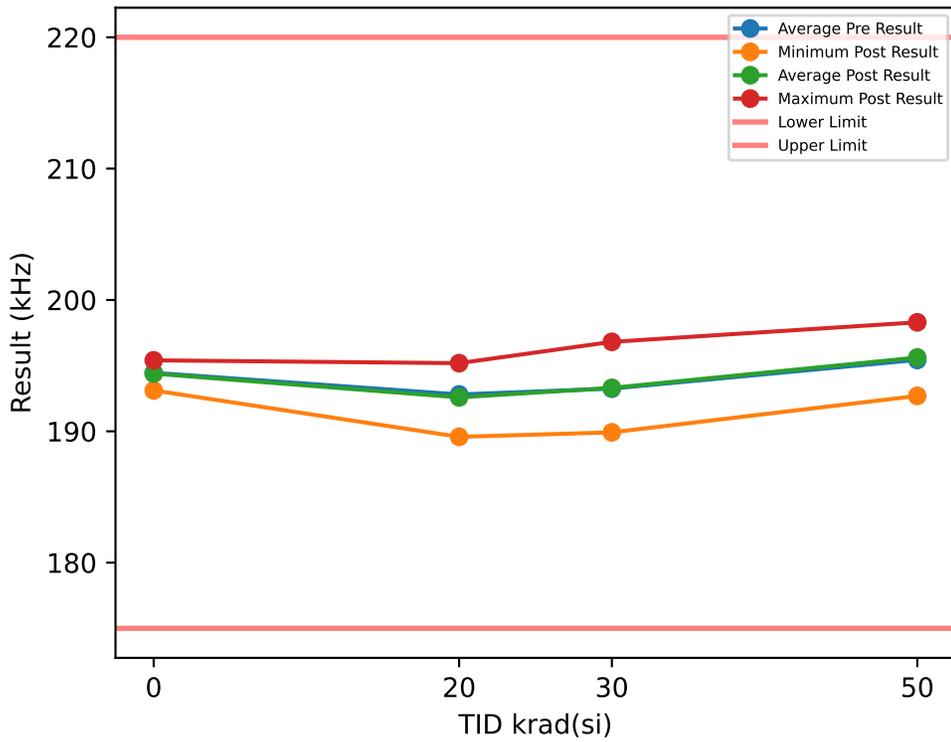
Device Test: 20.51 LEVEL|FREQ/RT/12/12/0/1000/5/200kHz//@FSW_EXT_RT_B

## 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
21	20	HDR BIAS	191.89	190.96	-0.9292
22	20	HDR BIAS	195.99	195.19	-0.7991
23	20	HDR BIAS	192.08	192.33	0.2435
24	20	HDR BIAS	193.19	193.65	0.4528
25	20	HDR BIAS	189.9	189.58	-0.3247
26	20	HDR UNBIAS	191.79	191.83	0.039
27	20	HDR UNBIAS	194.53	194.25	-0.2812
28	20	HDR UNBIAS	192.73	193.39	0.6639
29	20	HDR UNBIAS	195.48	194.79	-0.691
30	20	HDR UNBIAS	190.48	189.89	-0.5955
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
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)
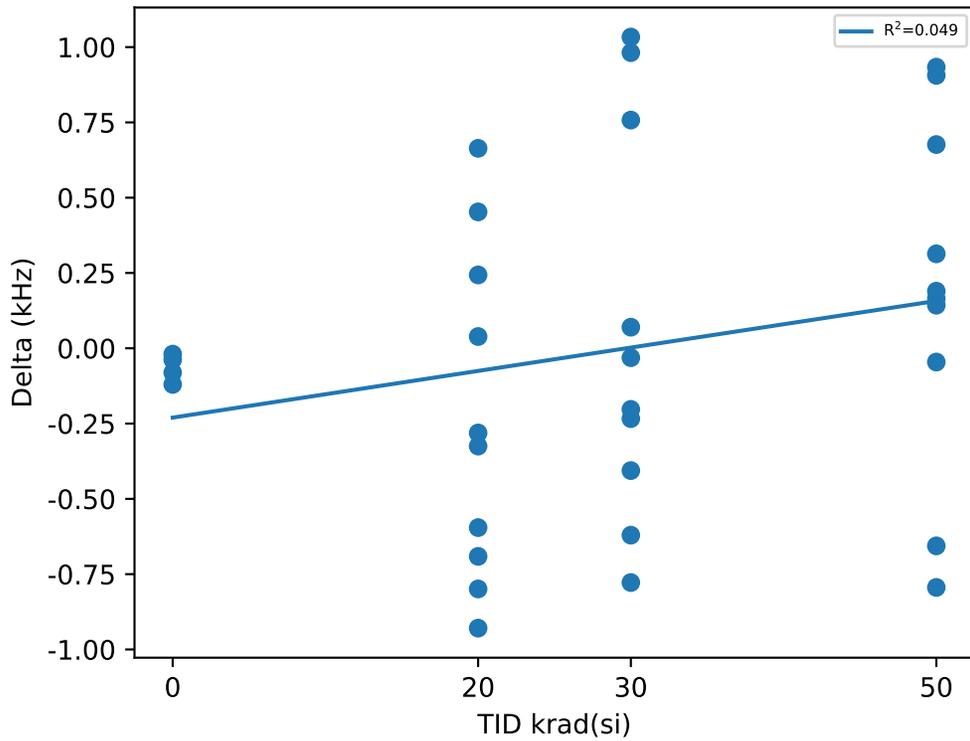
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.15	194.46	195.48	1.1462	193.11	194.39	195.4	1.1538	-0.12	-0.0646	-0.0195	0.044974
20	189.9	192.81	195.99	2.0173	189.58	192.58	195.19	1.9941	-0.9292	-0.22215	0.6639	0.55093
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
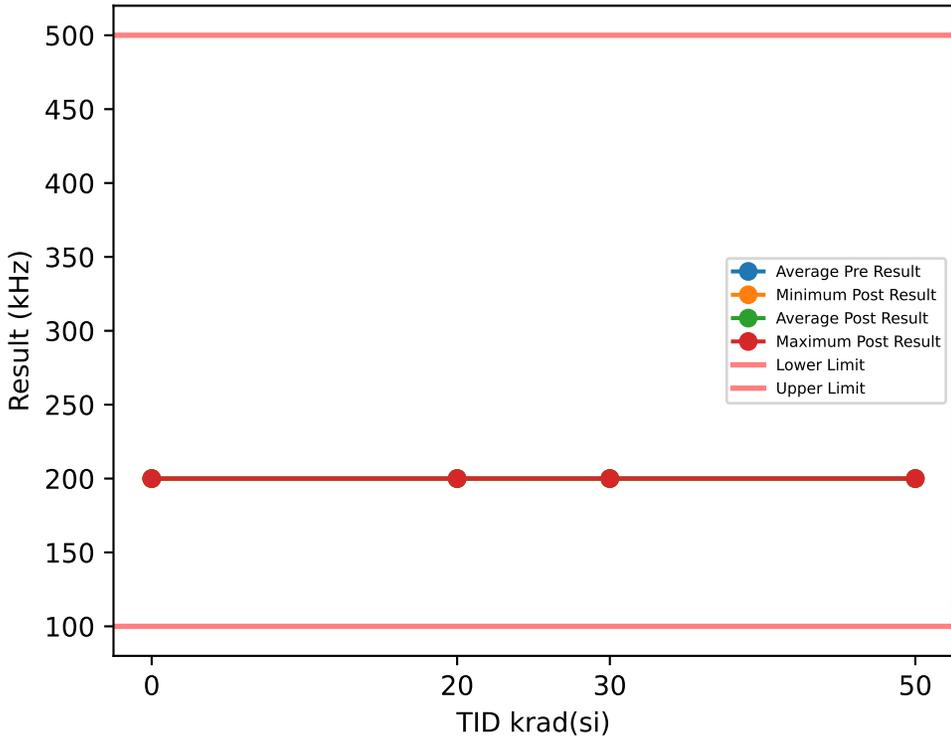
Device Test: 20.52 LEVEL|FREQ/SYNC/12/12/0/1000/5/200kHz//@FREQ_SYNC_EXT_503X

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
21	20	HDR BIAS	200	199.98	-0.0157
22	20	HDR BIAS	199.99	199.97	-0.0209
23	20	HDR BIAS	199.99	199.97	-0.0272
24	20	HDR BIAS	199.99	199.98	-0.0138
25	20	HDR BIAS	200	199.98	-0.0167
26	20	HDR UNBIAS	200	199.98	-0.024
27	20	HDR UNBIAS	200	199.97	-0.024
28	20	HDR UNBIAS	200	199.98	-0.0272
29	20	HDR UNBIAS	200	199.98	-0.0166
30	20	HDR UNBIAS	200	199.97	-0.0285
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
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
20	199.99	200	200	0.0035279	199.97	199.98	199.98	0.0051517	-0.0285	-0.02146	-0.0138	0.0054447
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
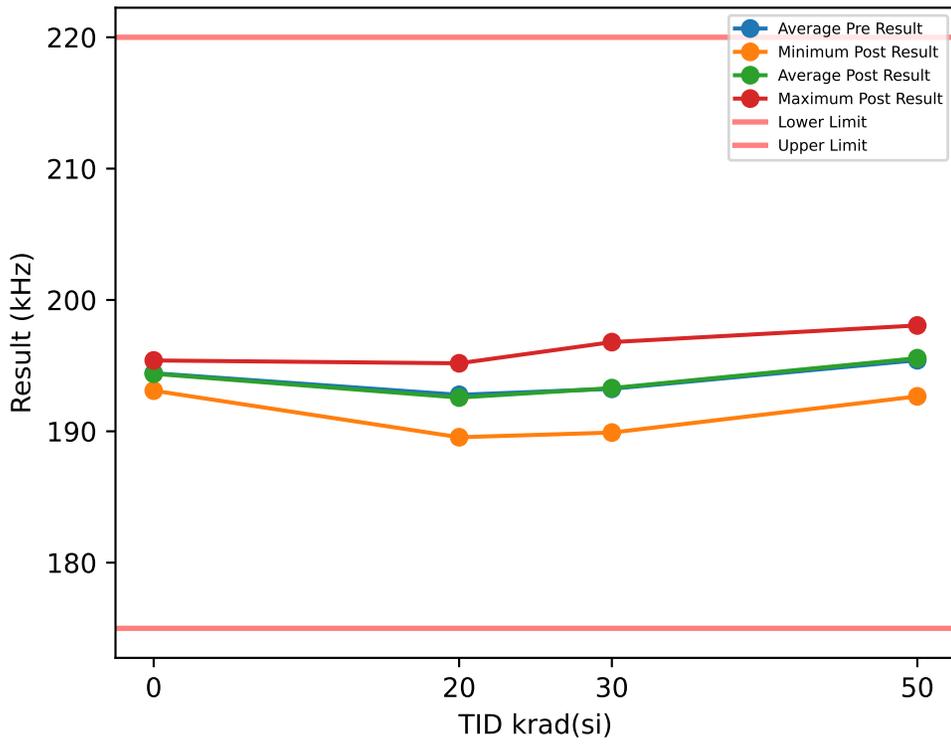
Device Test: 20.53 LEVEL|FREQ/RT/14/14/0/1000/5/200kHz//@FSW_EXT_RT_B

## 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
21	20	HDR BIAS	191.84	190.93	-0.9177
22	20	HDR BIAS	195.96	195.18	-0.7792
23	20	HDR BIAS	192.06	192.33	0.2686
24	20	HDR BIAS	193.17	193.62	0.452
25	20	HDR BIAS	189.88	189.55	-0.3328
26	20	HDR UNBIAS	191.77	191.83	0.0621
27	20	HDR UNBIAS	194.51	194.22	-0.2941
28	20	HDR UNBIAS	192.73	193.37	0.6413
29	20	HDR UNBIAS	195.45	194.78	-0.6699
30	20	HDR UNBIAS	190.42	189.89	-0.5283
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
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)
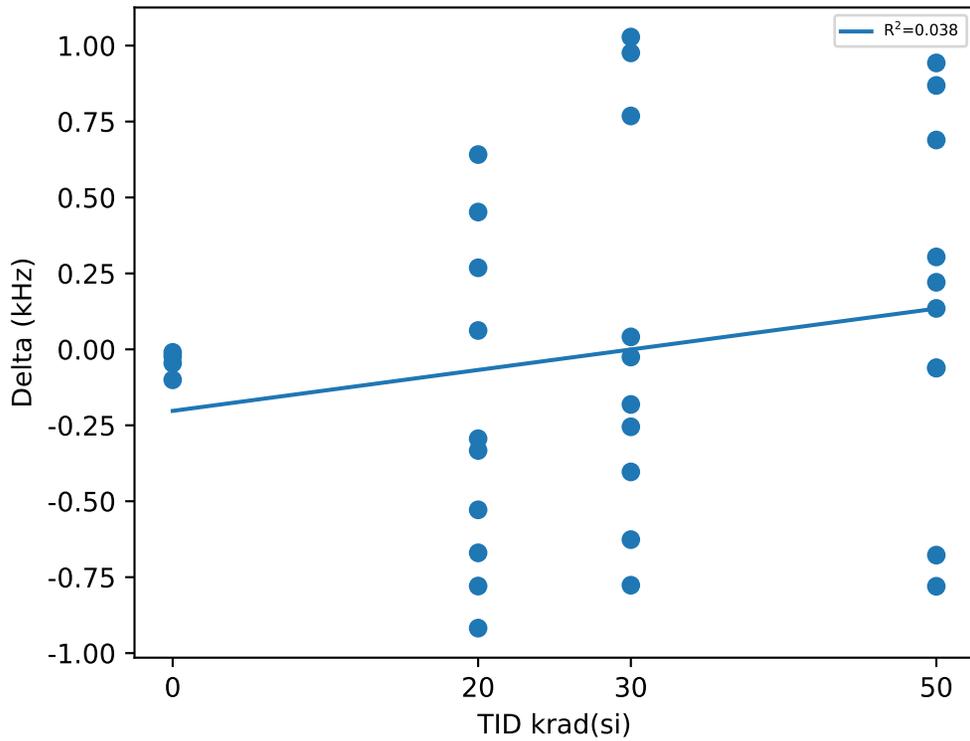
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	193.12	194.43	195.44	1.1441	193.1	194.38	195.39	1.1551	-0.1002	-0.0446	-0.0099	0.0399
20	189.88	192.78	195.96	2.0204	189.55	192.57	195.18	1.9925	-0.9177	-0.2098	0.6413	0.54015
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
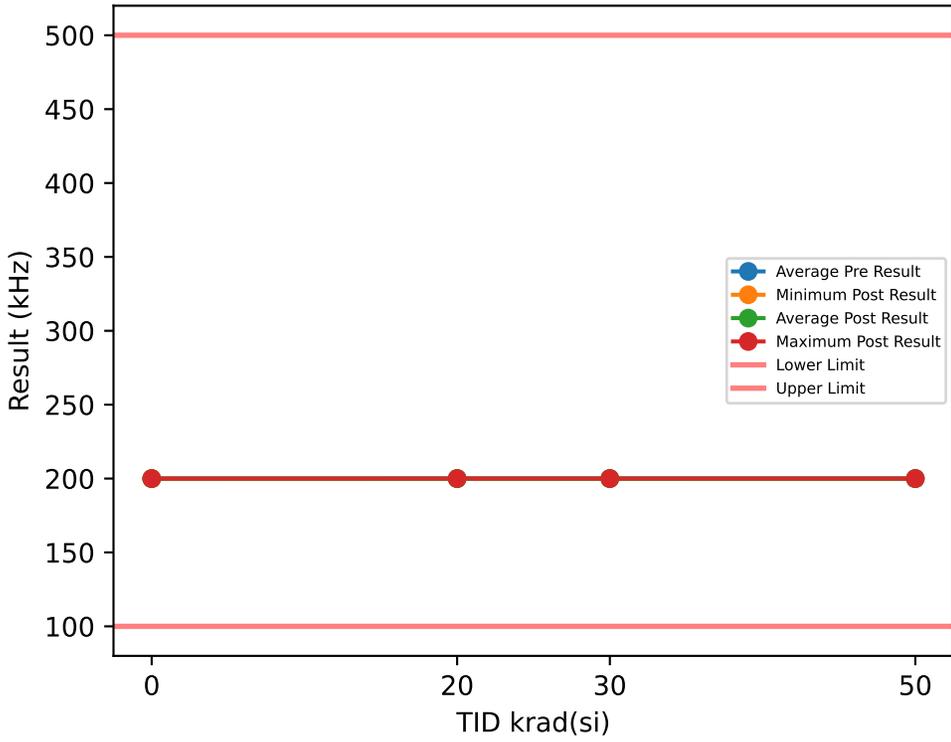
Device Test: 20.54 LEVEL|FREQ/SYNC/14/14/0/1000/5/200kHz//@FREQ_SYNC_EXT_503X

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
21	20	HDR BIAS	199.99	199.99	0.0016
22	20	HDR BIAS	200	199.98	-0.0157
23	20	HDR BIAS	200	199.97	-0.029
24	20	HDR BIAS	200	199.98	-0.0179
25	20	HDR BIAS	200	199.99	-0.0052
26	20	HDR UNBIAS	200.01	199.98	-0.0245
27	20	HDR UNBIAS	200	199.98	-0.0239
28	20	HDR UNBIAS	199.99	199.97	-0.0202
29	20	HDR UNBIAS	200	199.98	-0.0175
30	20	HDR UNBIAS	199.99	199.98	-0.0152
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
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

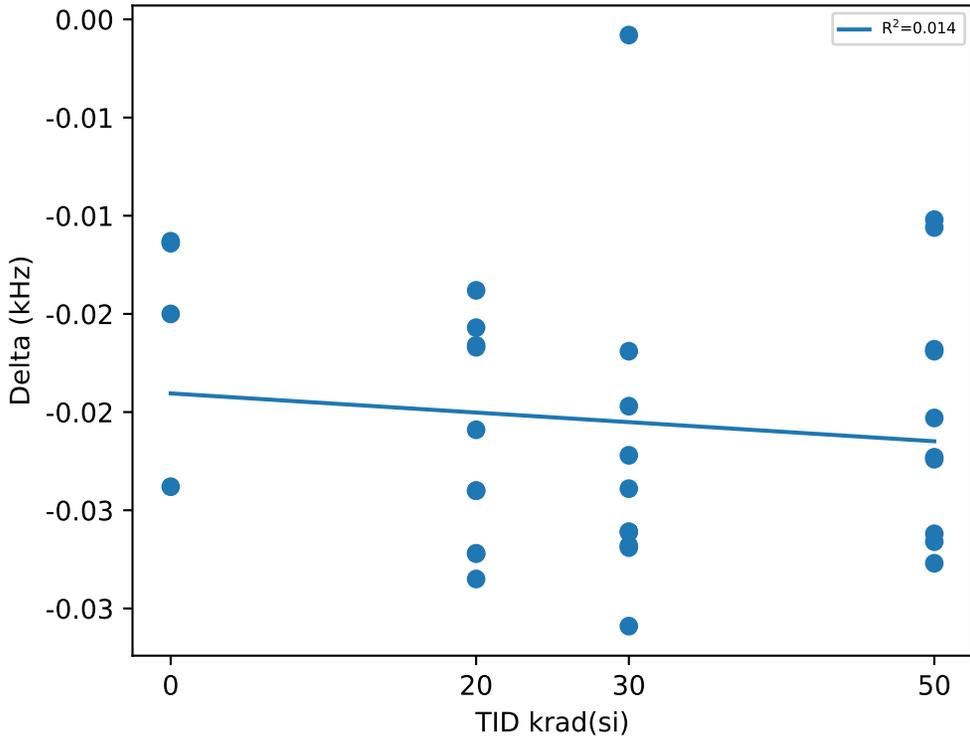## Test Statistics (kHz)
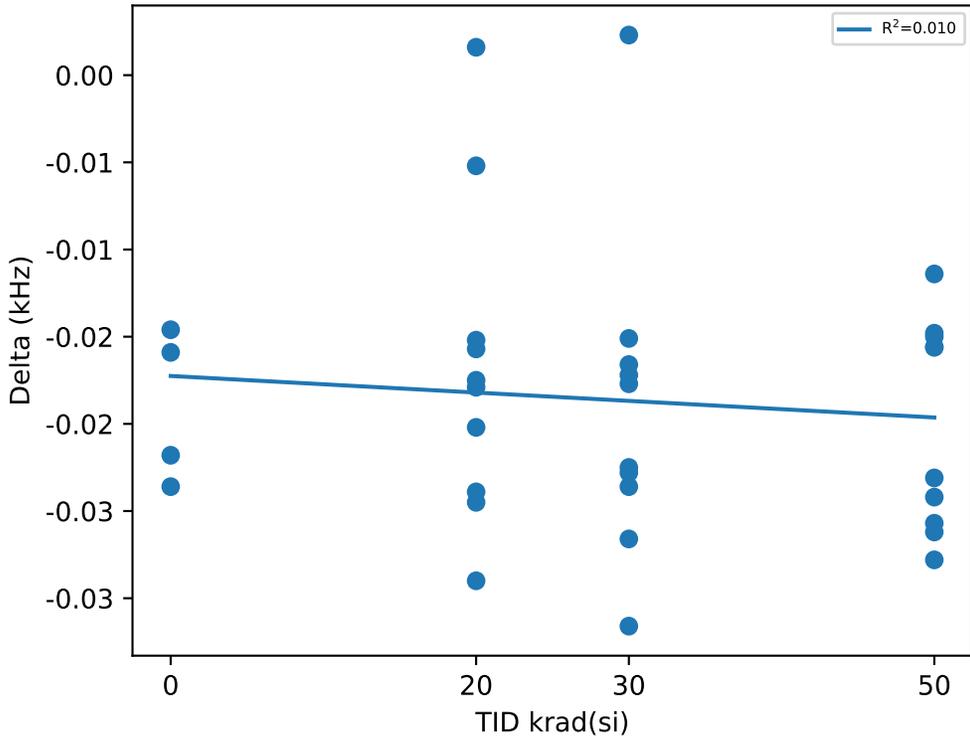
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	200	200	200	0.0010595	199.97	199.98	199.98	0.0048497	-0.0236	-0.018975	-0.0146	0.0043957
20	199.99	200	200.01	0.0041104	199.97	199.98	199.99	0.0073224	-0.029	-0.01675	0.0016	0.0091206
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

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

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	492.48	491.43	-1.0477
22	20	HDR BIAS	499.83	498.51	-1.3169
23	20	HDR BIAS	494.25	494.44	0.1885
24	20	HDR BIAS	495.33	496.21	0.8779
25	20	HDR BIAS	490.15	489.64	-0.5057
26	20	HDR UNBIAS	493.7	493.18	-0.514
27	20	HDR UNBIAS	497.4	496.94	-0.4574
28	20	HDR UNBIAS	494.85	495.59	0.7438
29	20	HDR UNBIAS	499.9	499.09	-0.8117
30	20	HDR UNBIAS	489.77	488.55	-1.2121
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
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)
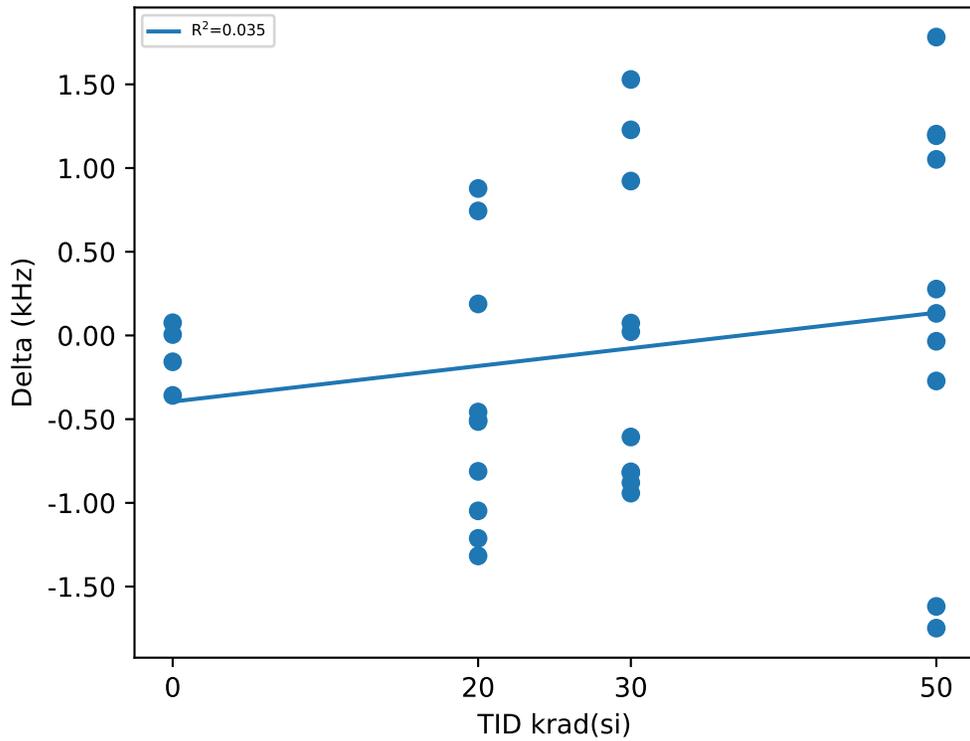
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.93	498.17	500.83	2.6549	494.94	498.07	500.47	2.5743	-0.3581	-0.1085	0.0759	0.19294
20	489.77	494.76	499.9	3.5317	488.55	494.36	499.09	3.6083	-1.3169	-0.40553	0.8779	0.77488
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
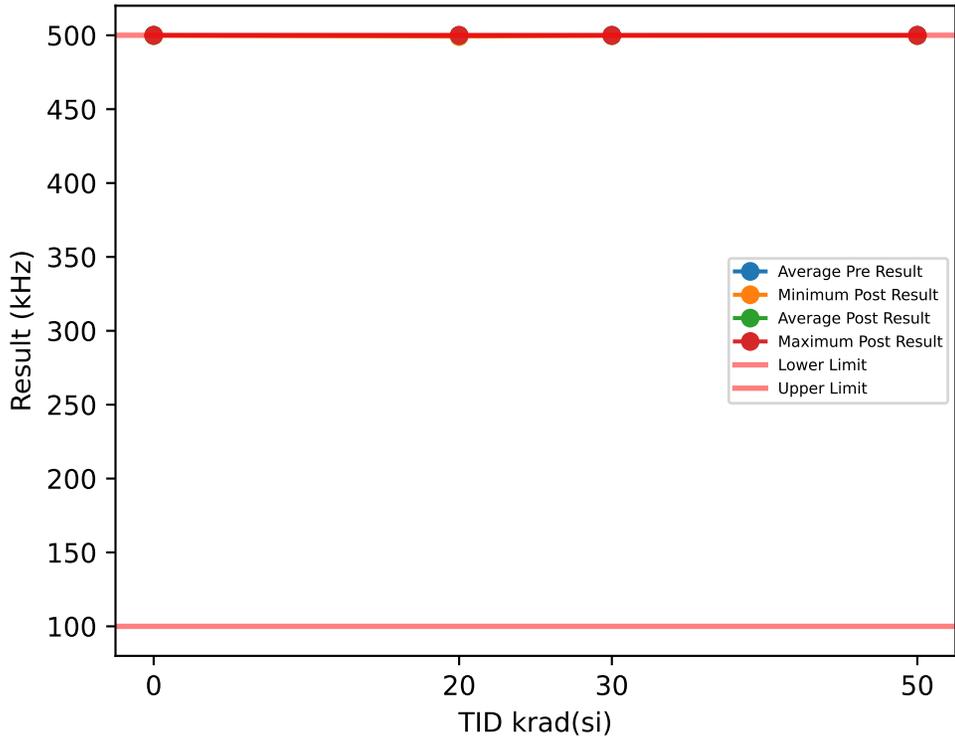
Device Test: 20.56 LEVEL|FREQ/SYNC/12/12/0/1000/5/500kHz//@FREQ_SYNC_EXT_503X

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
21	20	HDR BIAS	499.94	499.11	-0.8344
22	20	HDR BIAS	500	499.82	-0.1879
23	20	HDR BIAS	500.02	499.8	-0.215
24	20	HDR BIAS	499.97	499.85	-0.125
25	20	HDR BIAS	499.2	499.98	0.7832
26	20	HDR UNBIAS	499.29	499.87	0.5749
27	20	HDR UNBIAS	499.97	499.83	-0.1422
28	20	HDR UNBIAS	499.96	499.84	-0.1155
29	20	HDR UNBIAS	500.03	499.84	-0.1898
30	20	HDR UNBIAS	500	499.87	-0.128
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
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)
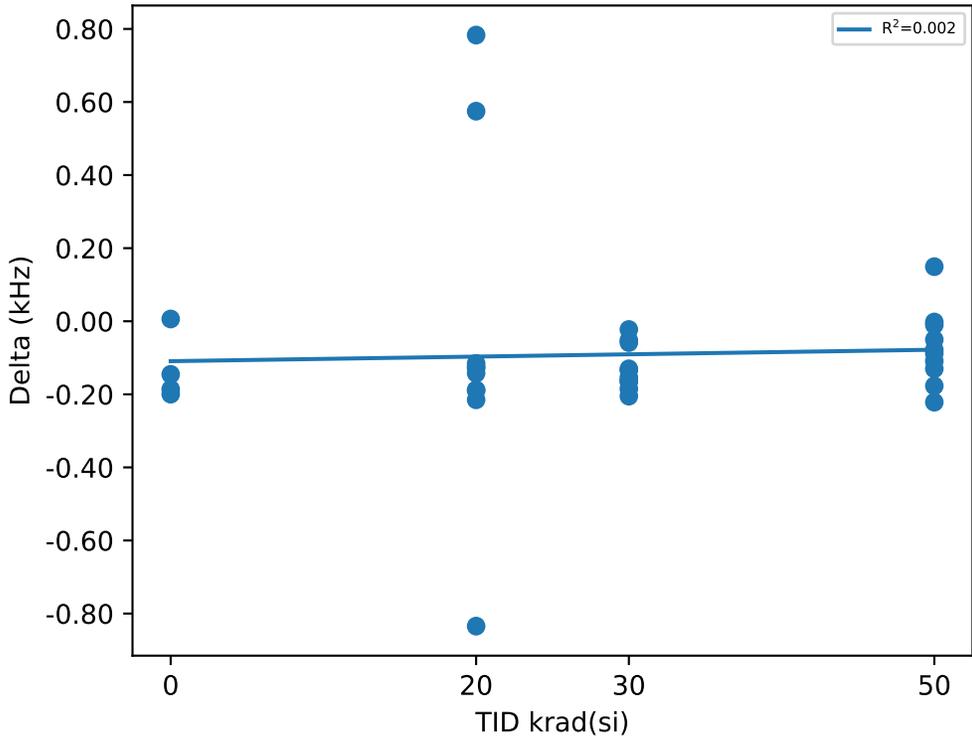
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.98	500	500.03	0.021988	499.81	499.87	499.99	0.078374	-0.1995	-0.13117	0.0062	0.094425
20	499.2	499.84	500.03	0.31436	499.11	499.78	499.98	0.24232	-0.8344	-0.05797	0.7832	0.44593
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
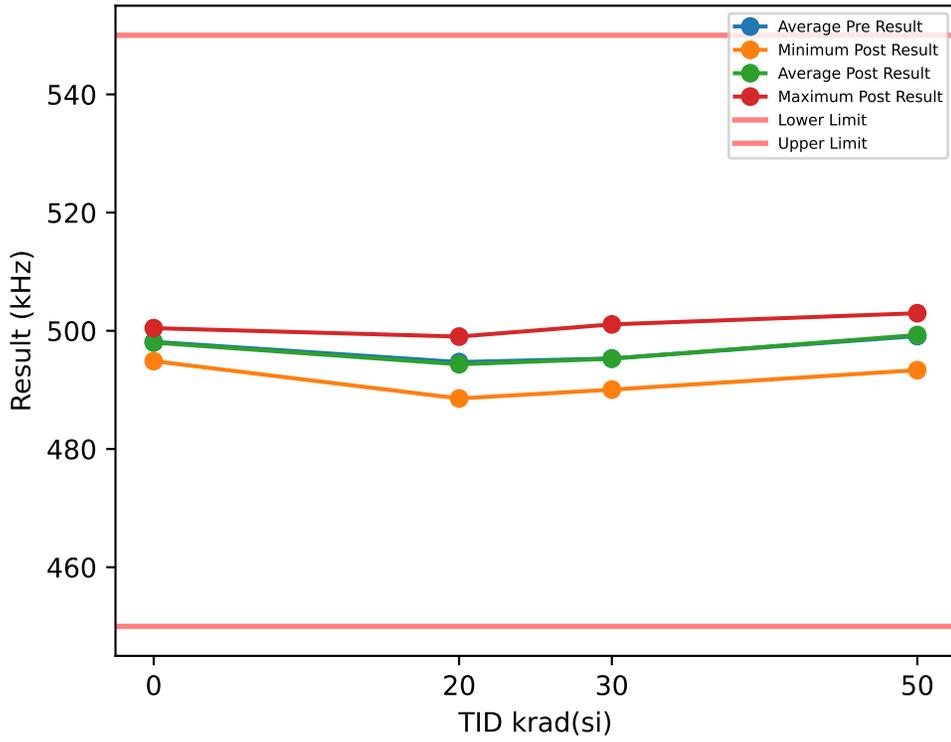
Device Test: 20.57 LEVEL|FREQ/RT/14/14/0/1000/5/500kHz//@FSW_EXT_RT_C

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

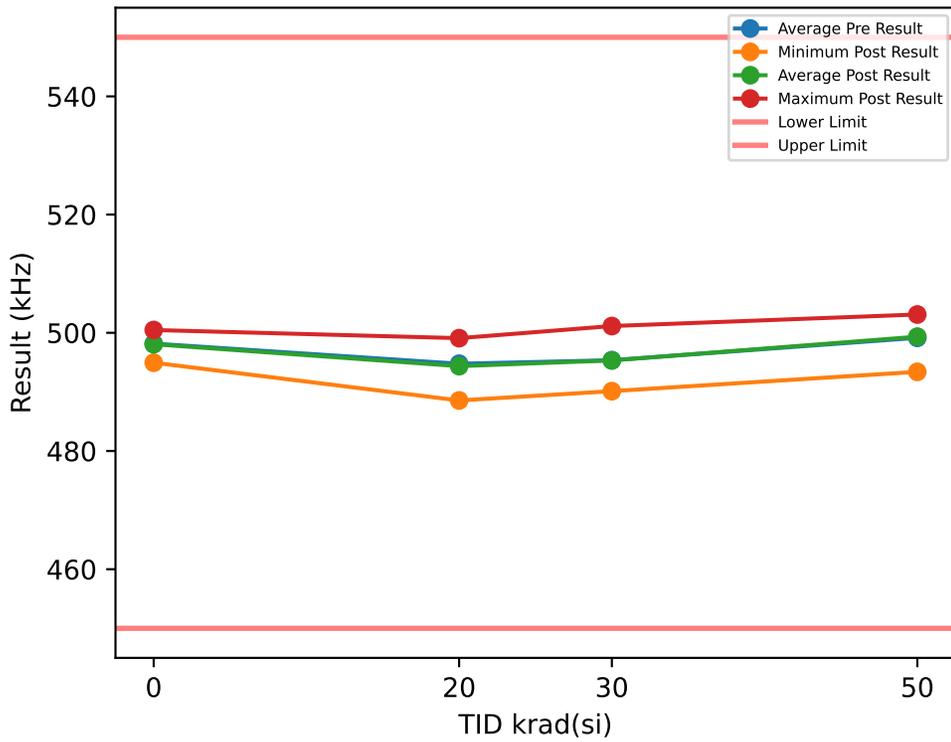| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	492.46	491.37	-1.0926
22	20	HDR BIAS	499.79	498.5	-1.29
23	20	HDR BIAS	494.2	494.43	0.2312
24	20	HDR BIAS	495.36	496.19	0.8284
25	20	HDR BIAS	490.13	489.6	-0.5217
26	20	HDR UNBIAS	493.59	493.17	-0.4222
27	20	HDR UNBIAS	497.31	496.92	-0.3832
28	20	HDR UNBIAS	494.79	495.57	0.7743
29	20	HDR UNBIAS	499.8	499.02	-0.7793
30	20	HDR UNBIAS	489.67	488.55	-1.1158
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
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)
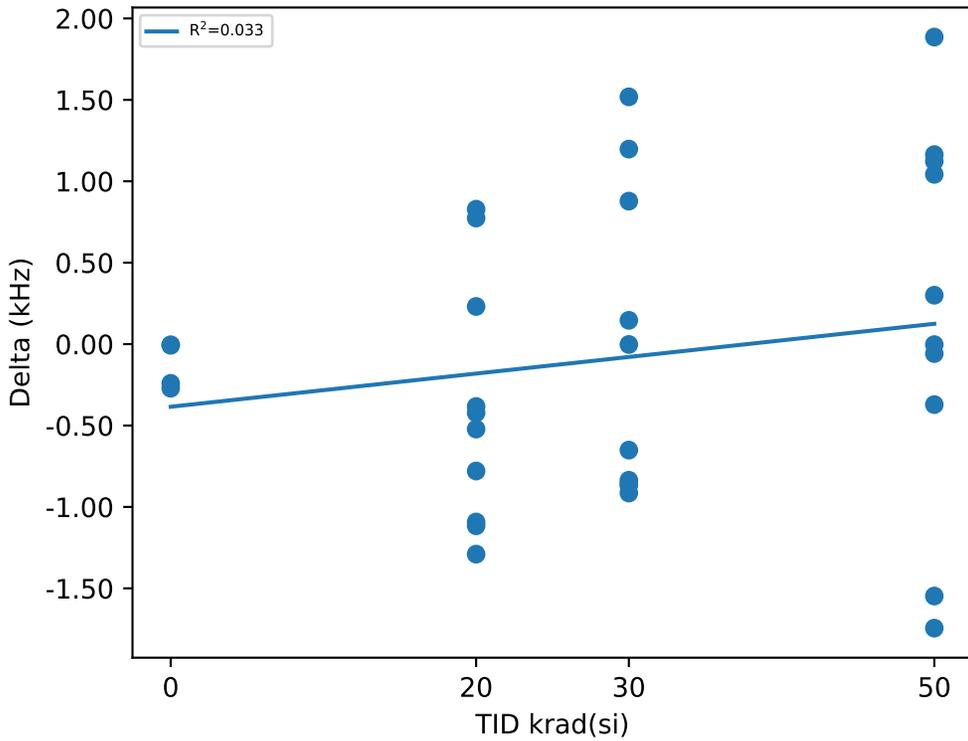
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	494.87	498.14	500.72	2.6453	494.87	498.01	500.45	2.5921	-0.2709	-0.13085	-0.0043	0.14503
20	489.67	494.71	499.8	3.5257	488.55	494.33	499.02	3.6045	-1.29	-0.37709	0.8284	0.76192
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
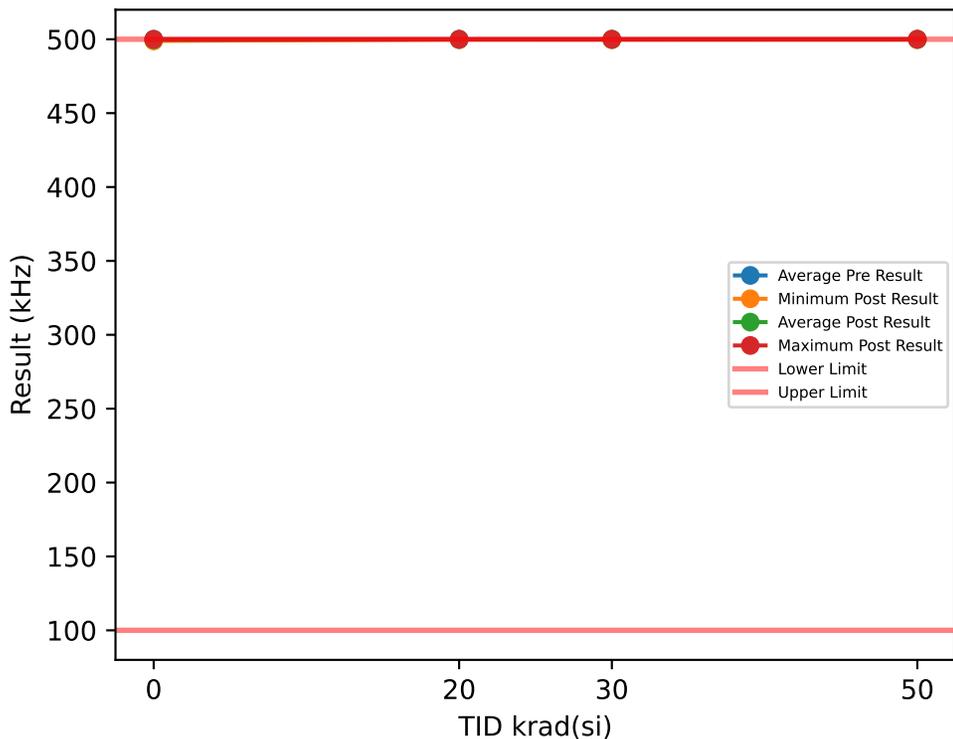
Device Test: 20.58 LEVEL|FREQ/SYNC/14/14/0/1000/5/500kHz//@FREQ_SYNC_EXT_503X

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
21	20	HDR BIAS	500.01	499.94	-0.0757
22	20	HDR BIAS	500.02	499.87	-0.1449
23	20	HDR BIAS	499.99	499.81	-0.1797
24	20	HDR BIAS	499.94	499.88	-0.055
25	20	HDR BIAS	499.96	499.89	-0.0706
26	20	HDR UNBIAS	500.02	499.85	-0.166
27	20	HDR UNBIAS	499.97	499.83	-0.1412
28	20	HDR UNBIAS	499.98	499.85	-0.1342
29	20	HDR UNBIAS	499.98	499.95	-0.029
30	20	HDR UNBIAS	499.96	499.84	-0.1179
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
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)
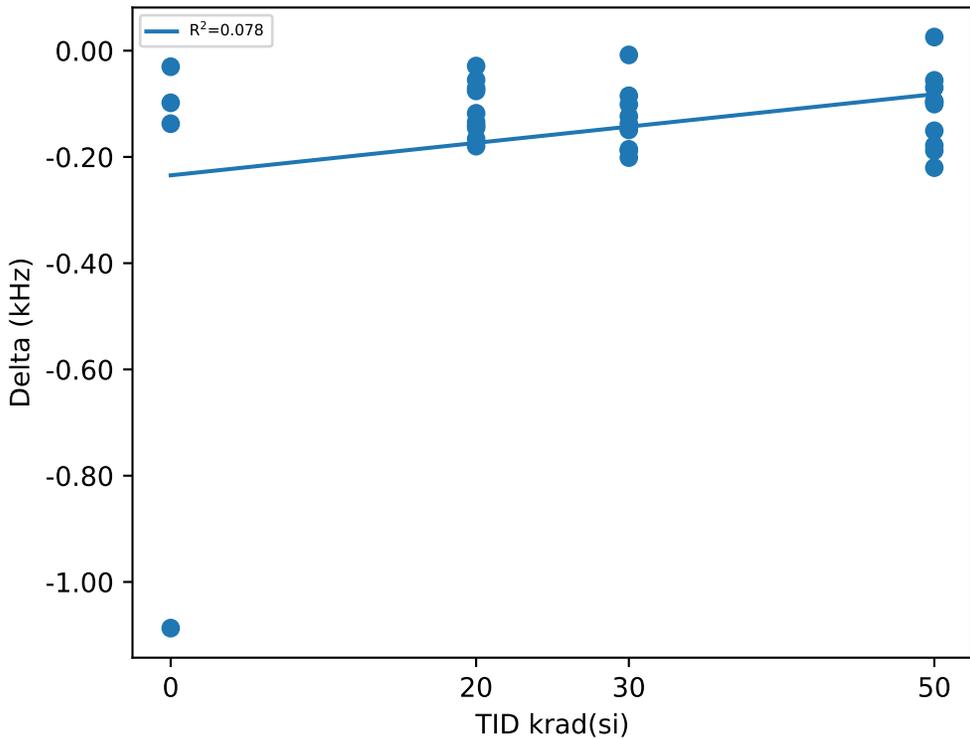
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.98	499.99	500	0.010554	498.9	499.65	499.95	0.49996	-1.0869	-0.33817	-0.0302	0.50111
20	499.94	499.98	500.02	0.026404	499.81	499.87	499.95	0.044877	-0.1797	-0.11142	-0.029	0.050693
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	5	5	0
22	20	HDR BIAS	5	5	0
23	20	HDR BIAS	5	5	0
24	20	HDR BIAS	5	5	0
25	20	HDR BIAS	5	5	0
26	20	HDR UNBIAS	5	5	0
27	20	HDR UNBIAS	5	5	0
28	20	HDR UNBIAS	5	5	0
29	20	HDR UNBIAS	5	5	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9902	2.4296	0.4394
22	20	HDR BIAS	2.2389	1.9185	-0.3204
23	20	HDR BIAS	1.9734	2.2832	0.3098
24	20	HDR BIAS	1.9718	2.0622	0.0904
25	20	HDR BIAS	2.4368	2.4215	-0.0153
26	20	HDR UNBIAS	2.0287	2.1165	0.0878
27	20	HDR UNBIAS	2.0138	2.2224	0.2086
28	20	HDR UNBIAS	2.3469	1.9622	-0.3847
29	20	HDR UNBIAS	1.9071	2.2012	0.2941
30	20	HDR UNBIAS	1.9792	2.1301	0.1509
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
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)
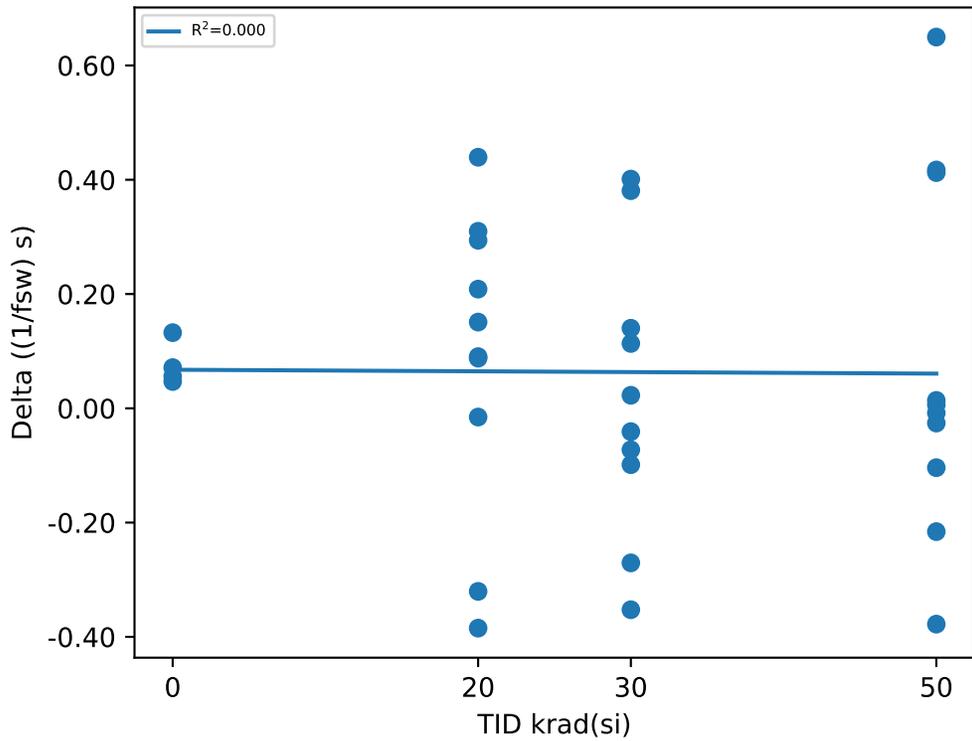
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8385	2.0622	2.426	0.27748	1.8854	2.1388	2.4972	0.29506	0.0469	0.0766	0.1324	0.038529
20	1.9071	2.0887	2.4368	0.18295	1.9185	2.1747	2.4296	0.17303	-0.3847	0.08606	0.4394	0.26552
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
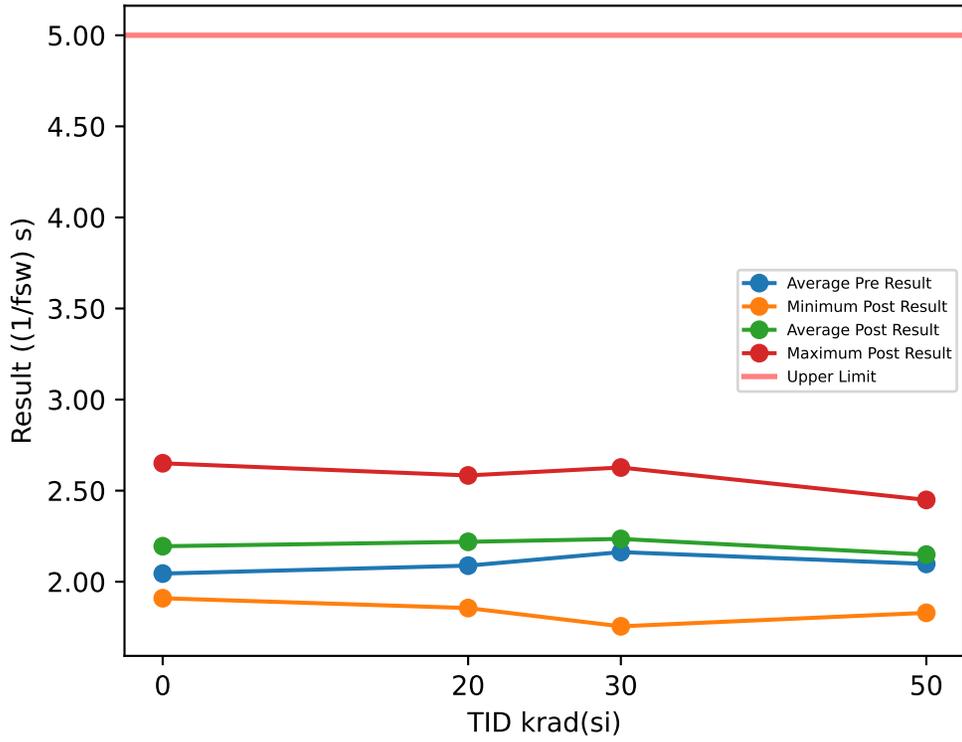
Device Test: 20.86 FREQ|DETECTION/RT/14/14/0/0/5/100kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.0977	2.4463	0.3486
22	20	HDR BIAS	2.3816	2.018	-0.3636
23	20	HDR BIAS	1.9018	2.5718	0.67
24	20	HDR BIAS	1.8221	1.9159	0.0938
25	20	HDR BIAS	2.4877	2.5836	0.0959
26	20	HDR UNBIAS	1.9932	2.0626	0.0694
27	20	HDR UNBIAS	2.0782	2.2356	0.1574
28	20	HDR UNBIAS	2.2949	1.8556	-0.4393
29	20	HDR UNBIAS	1.8768	2.4188	0.542
30	20	HDR UNBIAS	1.9489	2.0828	0.1339
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
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)
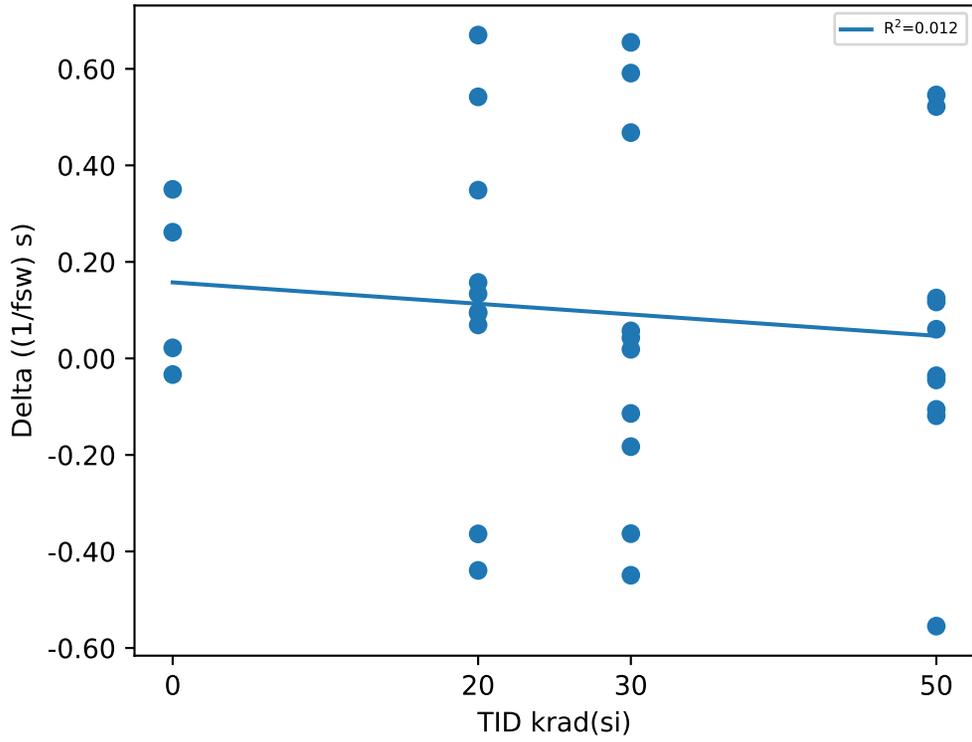
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9169	2.0448	2.3889	0.22963	1.9094	2.1949	2.6504	0.34737	-0.0334	0.15007	0.3503	0.18493
20	1.8221	2.0883	2.4877	0.22786	1.8556	2.2191	2.5836	0.2701	-0.4393	0.13081	0.67	0.34702
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
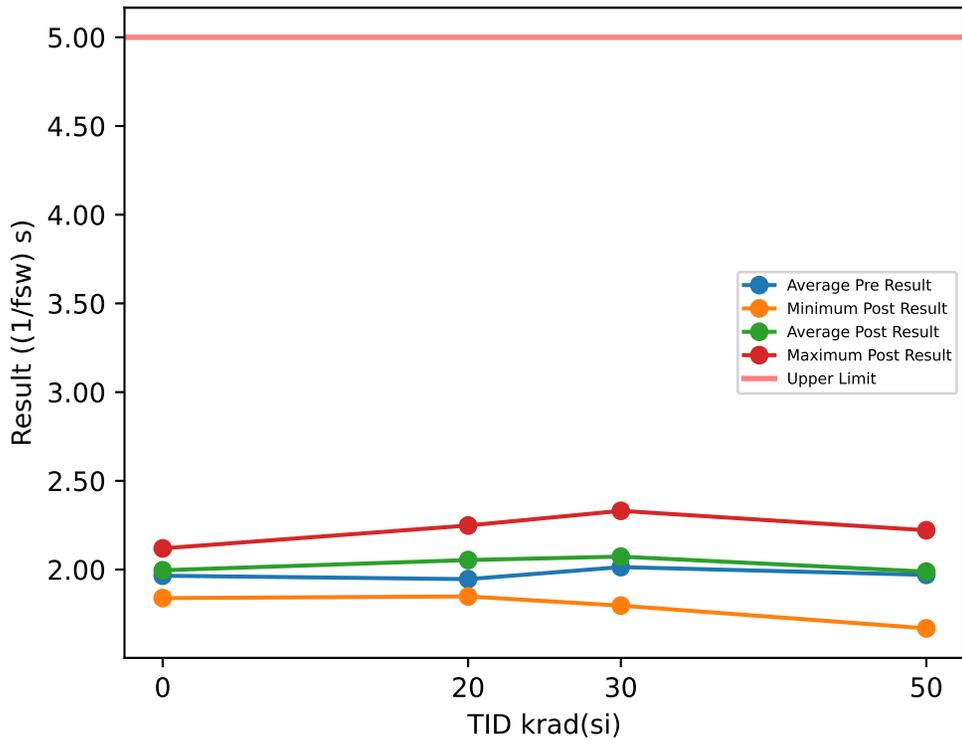
Device Test: 20.88 FREQ|DETECTION/RT/12/12/0/0/5/200kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.8368	2.1281	0.2913
22	20	HDR BIAS	2.0745	1.9247	-0.1498
23	20	HDR BIAS	1.8411	2.2483	0.4072
24	20	HDR BIAS	1.8999	1.9653	0.0654
25	20	HDR BIAS	2.2434	2.2303	-0.0131
26	20	HDR UNBIAS	1.9307	1.8485	-0.0822
27	20	HDR UNBIAS	1.9689	2.1617	0.1928
28	20	HDR UNBIAS	2.012	1.8965	-0.1155
29	20	HDR UNBIAS	1.7783	2.1382	0.3599
30	20	HDR UNBIAS	1.8746	1.9952	0.1206
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
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)
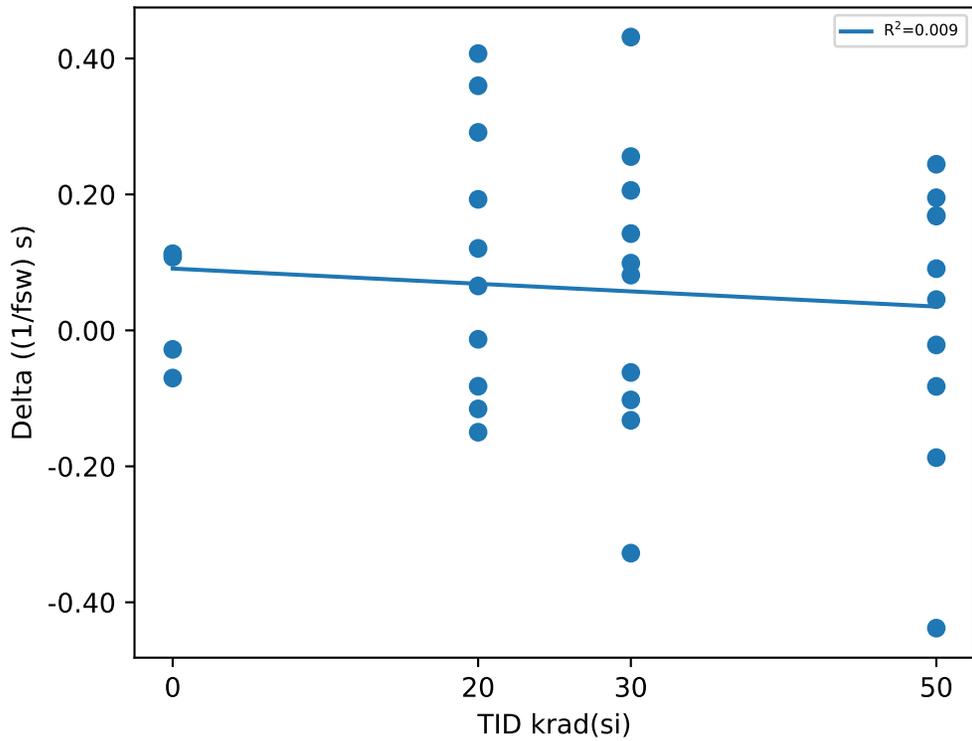
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.827	1.9654	2.1894	0.16239	1.8393	1.996	2.1193	0.13029	-0.0701	0.0306	0.1128	0.093587
20	1.7783	1.946	2.2434	0.13677	1.8485	2.0537	2.2483	0.14457	-0.1498	0.10766	0.4072	0.20083
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
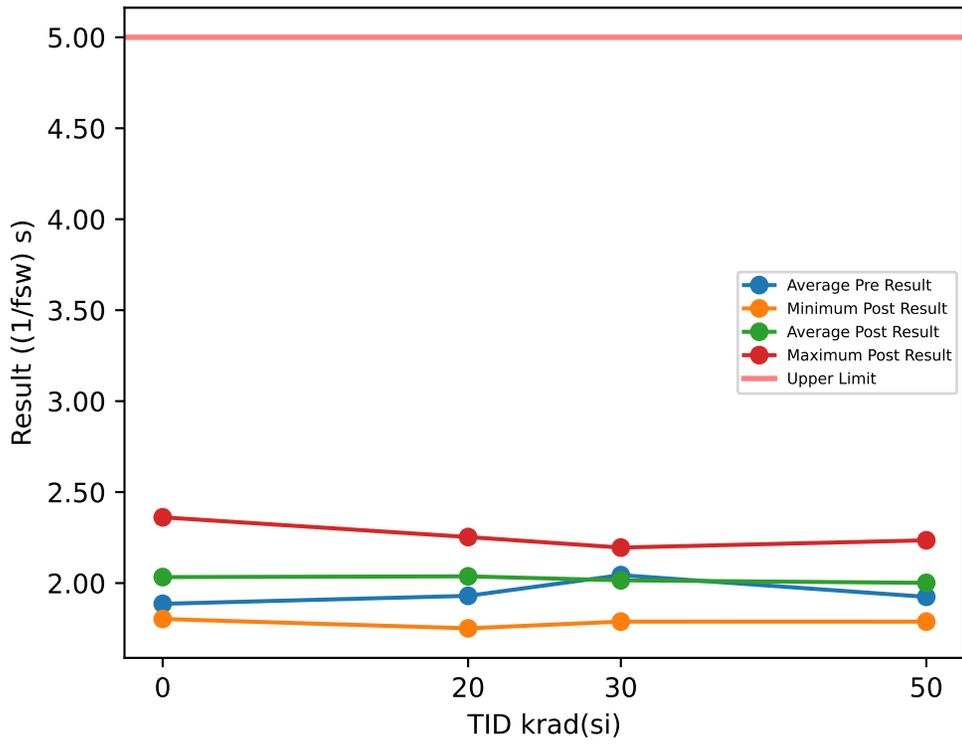
Device Test: 20.90 FREQ|DETECTION/RT/14/14/0/0/5/200kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9037	2.2532	0.3495
22	20	HDR BIAS	1.9704	1.848	-0.1224
23	20	HDR BIAS	1.9136	2.2129	0.2993
24	20	HDR BIAS	2.0091	1.8802	-0.1289
25	20	HDR BIAS	2.206	2.1478	-0.0582
26	20	HDR UNBIAS	1.85	1.8808	0.0308
27	20	HDR UNBIAS	1.7196	2.1301	0.4105
28	20	HDR UNBIAS	2.0451	2.0446	-0.0005
29	20	HDR UNBIAS	1.8532	2.2217	0.3685
30	20	HDR UNBIAS	1.8289	1.7514	-0.0775
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
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)
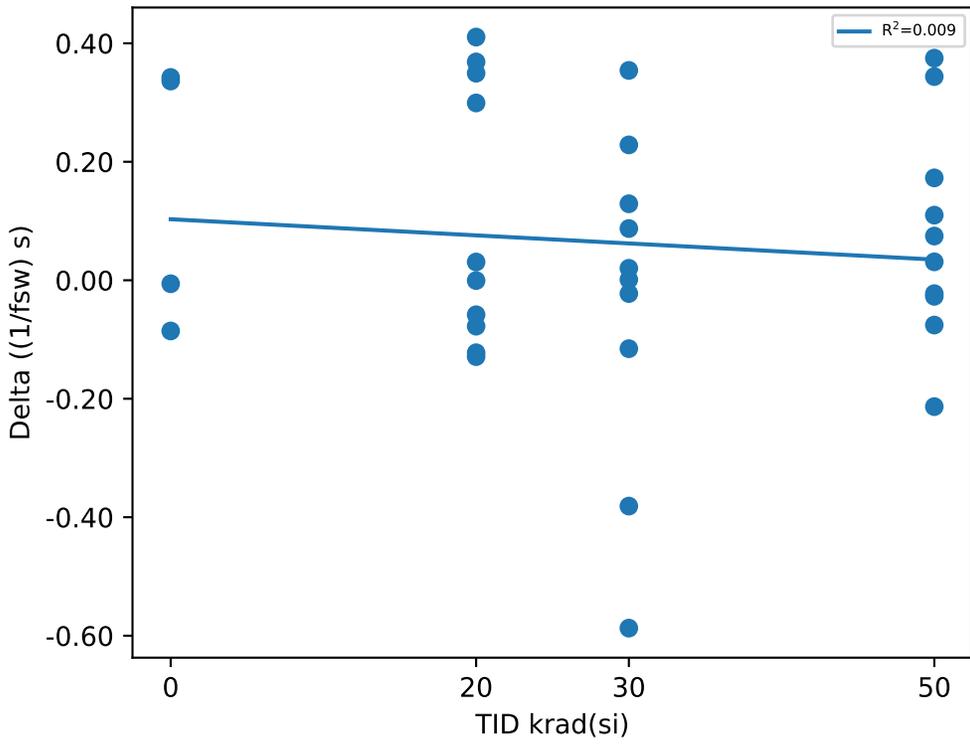
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7507	1.8862	2.0252	0.128	1.8028	2.033	2.3615	0.25141	-0.0856	0.14678	0.3423	0.22469
20	1.7196	1.93	2.206	0.13543	1.7514	2.0371	2.2532	0.18229	-0.1289	0.10711	0.4105	0.22192
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
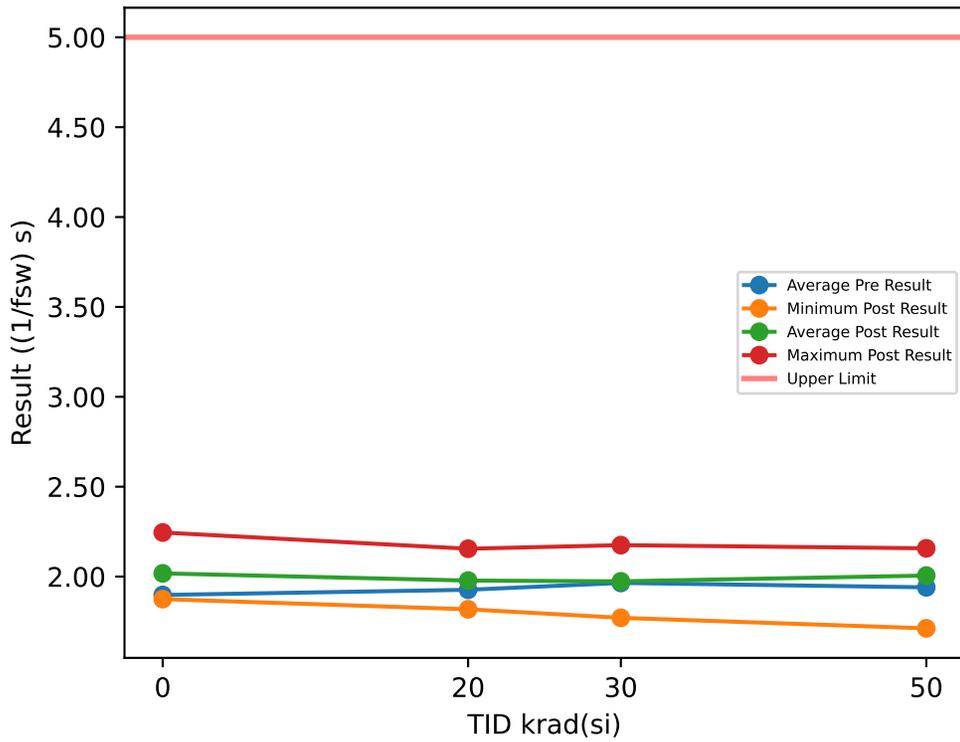
Device Test: 20.92 FREQ|DETECTION/RT/12/12/0/0/5/500kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.9866	2.0806	0.094
22	20	HDR BIAS	2.1641	1.8246	-0.3395
23	20	HDR BIAS	1.817	2.1549	0.3379
24	20	HDR BIAS	1.8017	1.8917	0.09
25	20	HDR BIAS	2.056	2.0679	0.0119
26	20	HDR UNBIAS	1.9419	1.9548	0.0129
27	20	HDR UNBIAS	1.8017	2.0561	0.2544
28	20	HDR UNBIAS	2.0316	1.9347	-0.0969
29	20	HDR UNBIAS	1.7809	1.9951	0.2142
30	20	HDR UNBIAS	1.8843	1.8181	-0.0662
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
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)
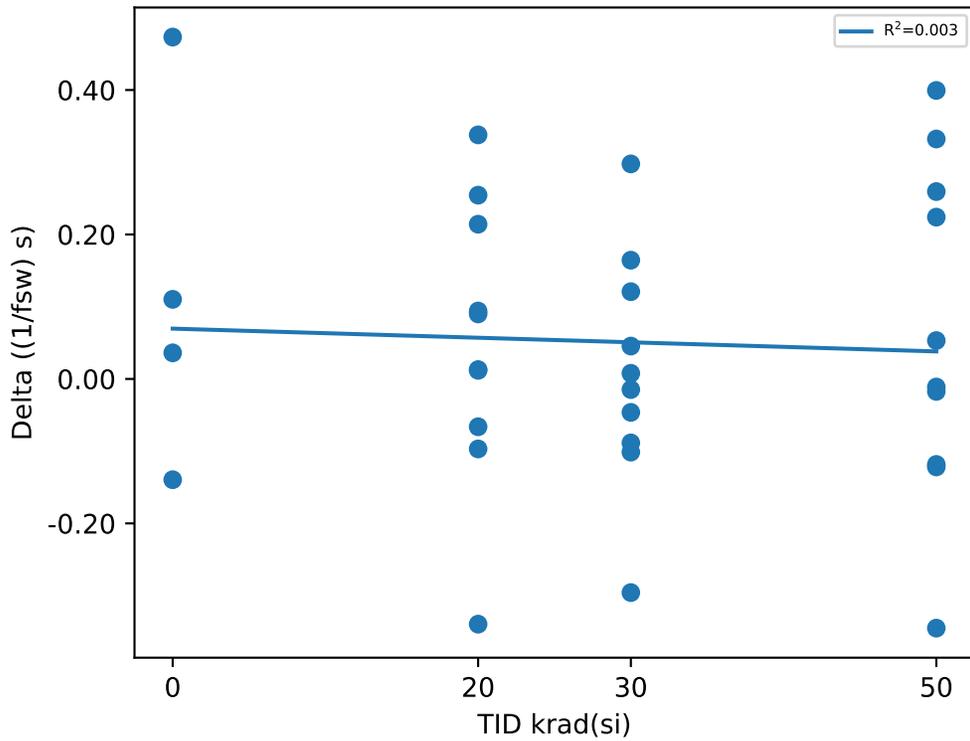
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7718	1.8978	2.1582	0.17591	1.8748	2.0179	2.2451	0.16262	-0.1395	0.12002	0.4733	0.25774
20	1.7809	1.9266	2.1641	0.13091	1.8181	1.9779	2.1549	0.11316	-0.3395	0.05127	0.3379	0.19572
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
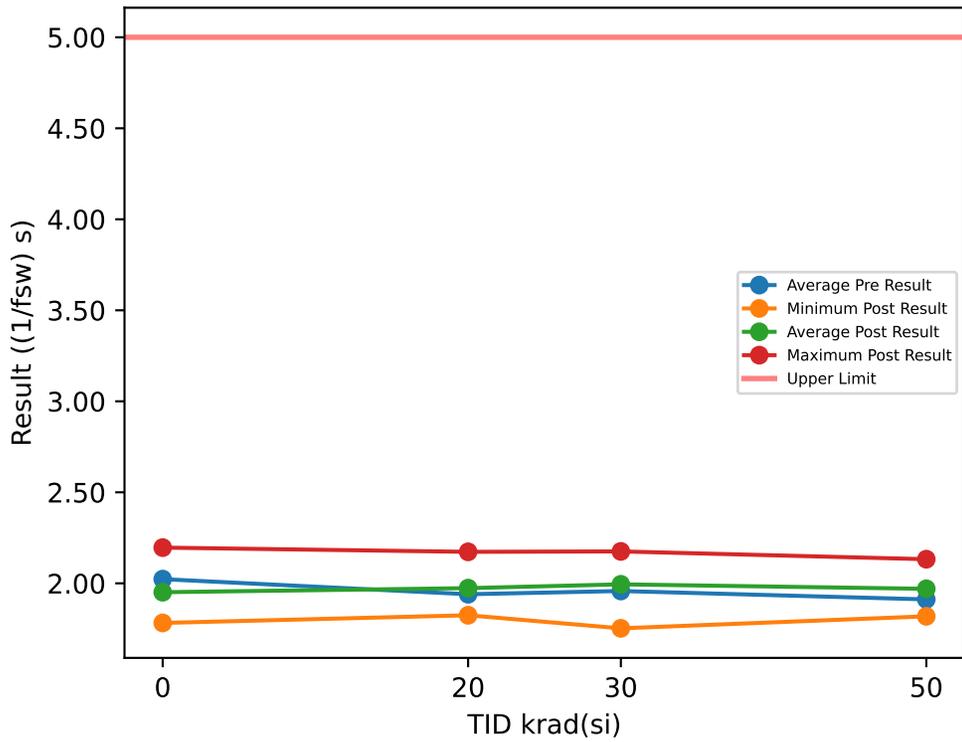
Device Test: 20.94 FREQ|DETECTION/RT/14/14/0/0/5/500kHz//@T_INT_CLK_DET

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.8505	2.0352	0.1847
22	20	HDR BIAS	2.1647	1.8952	-0.2695
23	20	HDR BIAS	1.843	2.0061	0.1631
24	20	HDR BIAS	2.022	1.8284	-0.1936
25	20	HDR BIAS	2.0438	2.0912	0.0474
26	20	HDR UNBIAS	1.971	1.9412	-0.0298
27	20	HDR UNBIAS	1.8487	2.1042	0.2555
28	20	HDR UNBIAS	1.9637	1.8246	-0.1391
29	20	HDR UNBIAS	1.881	2.173	0.292
30	20	HDR UNBIAS	1.8125	1.8368	0.0243
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
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)
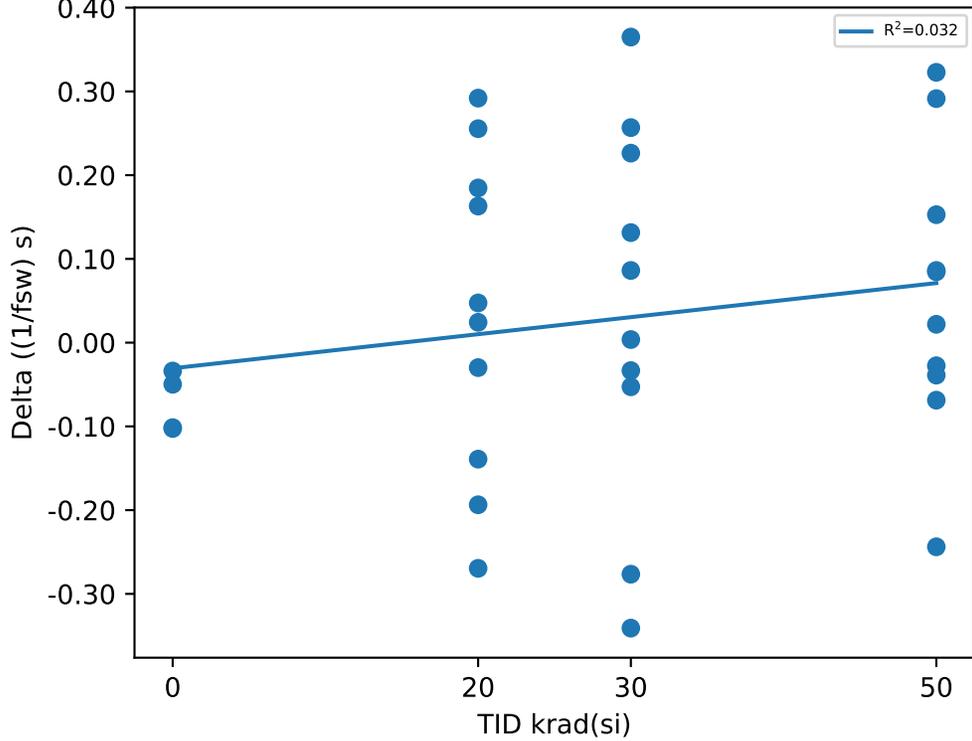
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8839	2.0231	2.2301	0.1603	1.7824	1.9512	2.1962	0.19472	-0.1025	-0.0719	-0.0339	0.035352
20	1.8125	1.9401	2.1647	0.11304	1.8246	1.9736	2.173	0.12679	-0.2695	0.0335	0.292	0.19242
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

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
21	20	HDR BIAS	92.602	92.044	-0.5572
22	20	HDR BIAS	95.207	94.653	-0.5543
23	20	HDR BIAS	92.451	92.764	0.3136
24	20	HDR BIAS	93.376	93.648	0.2722
25	20	HDR BIAS	91.32	91.084	-0.2359
26	20	HDR UNBIAS	92.337	92.481	0.1439
27	20	HDR UNBIAS	94.261	94.171	-0.0899
28	20	HDR UNBIAS	93.024	93.374	0.3504
29	20	HDR UNBIAS	94.724	94.302	-0.4223
30	20	HDR UNBIAS	91.764	91.499	-0.2658
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
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)
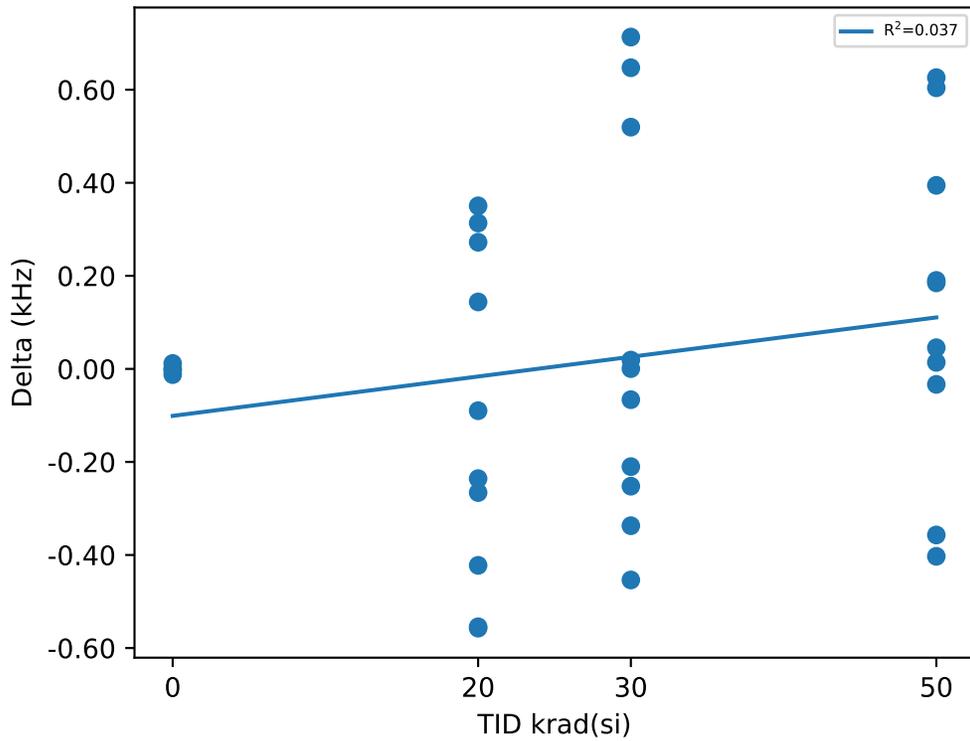
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	93.011	94.049	94.625	0.74294	93.022	94.048	94.613	0.73453	-0.0123	-0.000875	0.0116	0.0098983
20	91.32	93.107	95.207	1.2786	91.084	93.002	94.653	1.2258	-0.5572	-0.10453	0.3504	0.35545
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

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

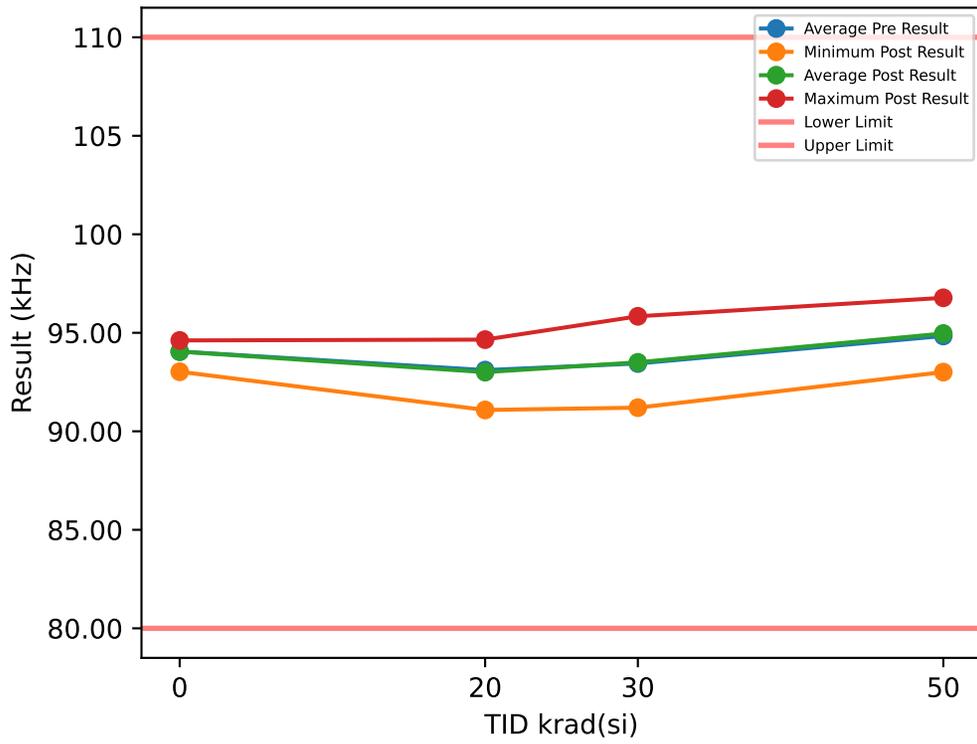| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	99.998	99.999	0.0006
22	20	HDR BIAS	100	99.993	-0.0073
23	20	HDR BIAS	100	99.995	-0.0063
24	20	HDR BIAS	99.999	99.995	-0.0041
25	20	HDR BIAS	99.998	99.998	-0.0004
26	20	HDR UNBIAS	100	99.993	-0.0084
27	20	HDR UNBIAS	100	99.992	-0.0081
28	20	HDR UNBIAS	100	99.994	-0.0062
29	20	HDR UNBIAS	99.999	99.996	-0.0027
30	20	HDR UNBIAS	100	99.993	-0.007
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
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)
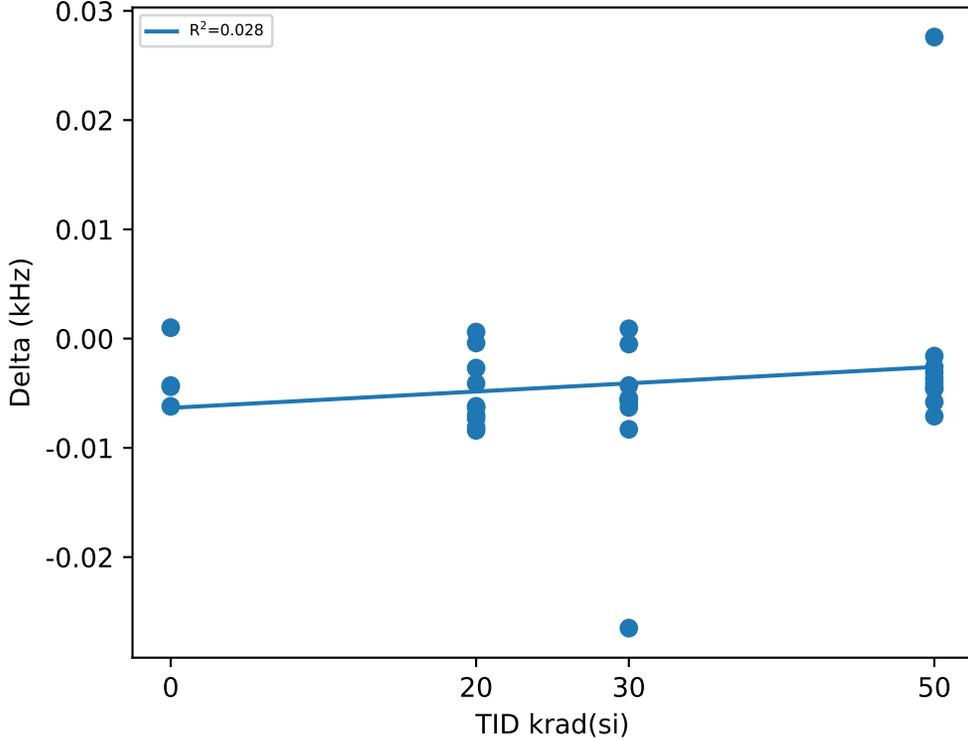
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	99.998	99.999	100	0.00086023	99.994	99.996	100	0.0030923	-0.0062	-0.003475	0.001	0.0031085
20	99.998	100	100	0.0011067	99.992	99.995	99.999	0.0021981	-0.0084	-0.00499	0.0006	0.0032009
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	40	40	0
22	20	HDR BIAS	40	40	0
23	20	HDR BIAS	40	40	0
24	20	HDR BIAS	40	40	0
25	20	HDR BIAS	40	40	0
26	20	HDR UNBIAS	40	40	0
27	20	HDR UNBIAS	40	40	0
28	20	HDR UNBIAS	40	40	0
29	20	HDR UNBIAS	40	40	0
30	20	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
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
20	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

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))

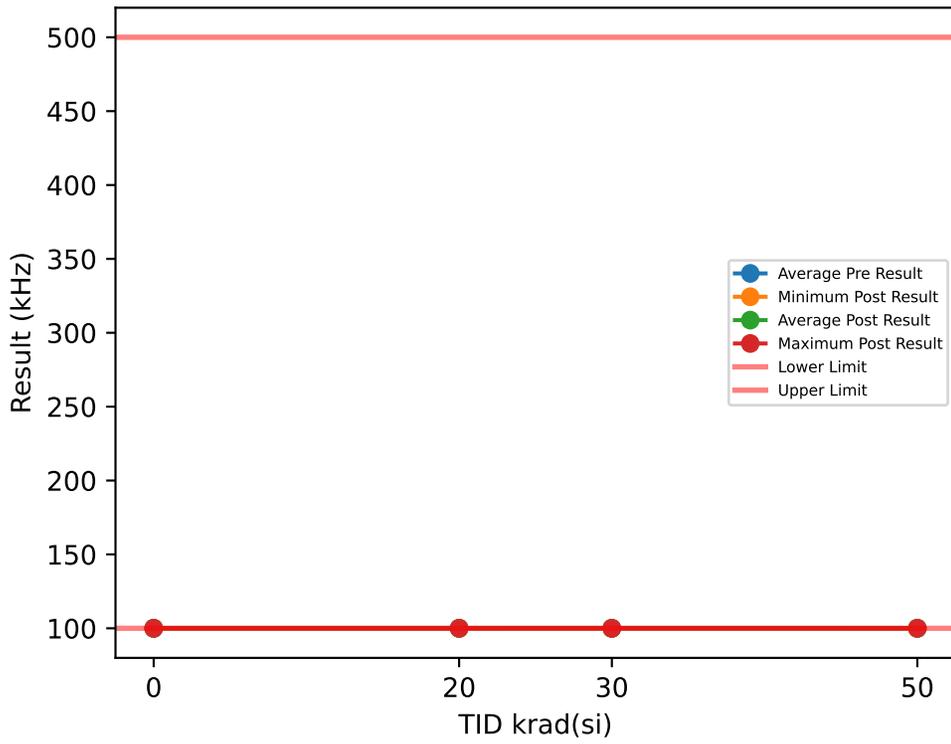| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.2221	1.2221	0
23	20	HDR BIAS	1.2239	1.2233	-0.0006
24	20	HDR BIAS	1.22	1.2194	-0.0006
25	20	HDR BIAS	1.2229	1.2224	-0.0005
26	20	HDR UNBIAS	1.2226	1.2223	-0.0003
27	20	HDR UNBIAS	1.2222	1.2224	0.0002
28	20	HDR UNBIAS	1.219	1.219	0
29	20	HDR UNBIAS	1.2224	1.2229	0.0005
30	20	HDR UNBIAS	1.221	1.2201	-0.0009
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
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
20	1.219	1.2219	1.2239	0.0015145	1.219	1.2217	1.2235	0.0016284	-0.0009	-0.0002	0.0005	0.00044721
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

Device Test: 21.13 VOLTAGE|VREF/VREF/12/12/0/1000/5/100kHz//@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
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.2221	1.222	-0.0001
23	20	HDR BIAS	1.2239	1.2233	-0.0006
24	20	HDR BIAS	1.22	1.2194	-0.0006
25	20	HDR BIAS	1.2229	1.2224	-0.0005
26	20	HDR UNBIAS	1.2226	1.2223	-0.0003
27	20	HDR UNBIAS	1.2222	1.2224	0.0002
28	20	HDR UNBIAS	1.219	1.219	0
29	20	HDR UNBIAS	1.2224	1.2229	0.0005
30	20	HDR UNBIAS	1.221	1.2201	-0.0009
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
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
20	1.219	1.2219	1.2239	0.0015145	1.219	1.2217	1.2235	0.0016262	-0.0009	-0.00021	0.0005	0.00044335
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

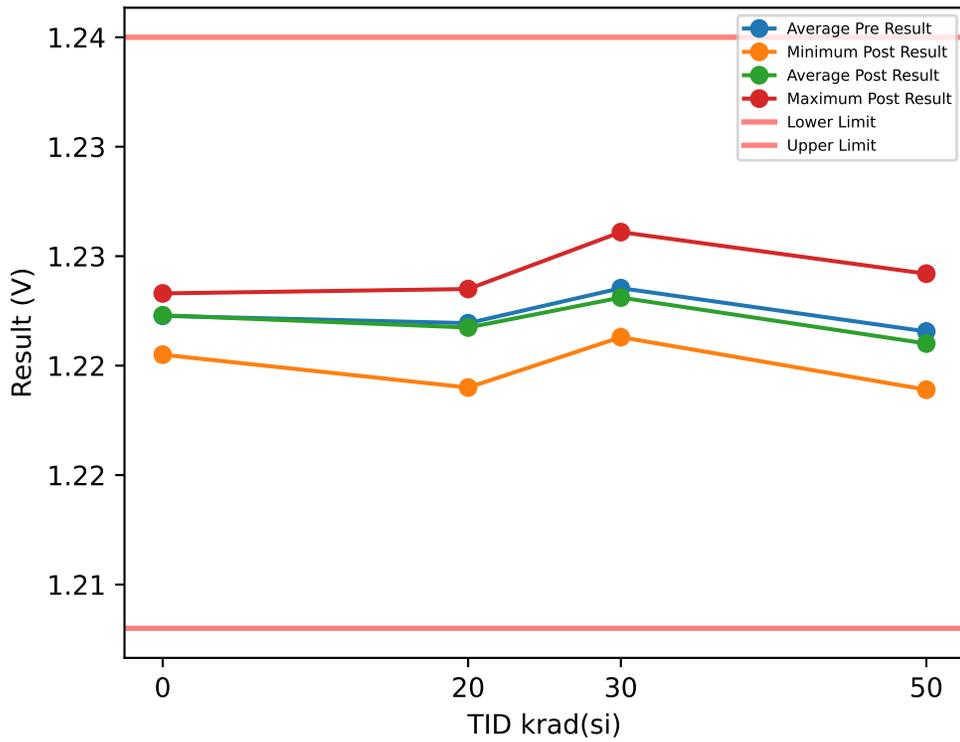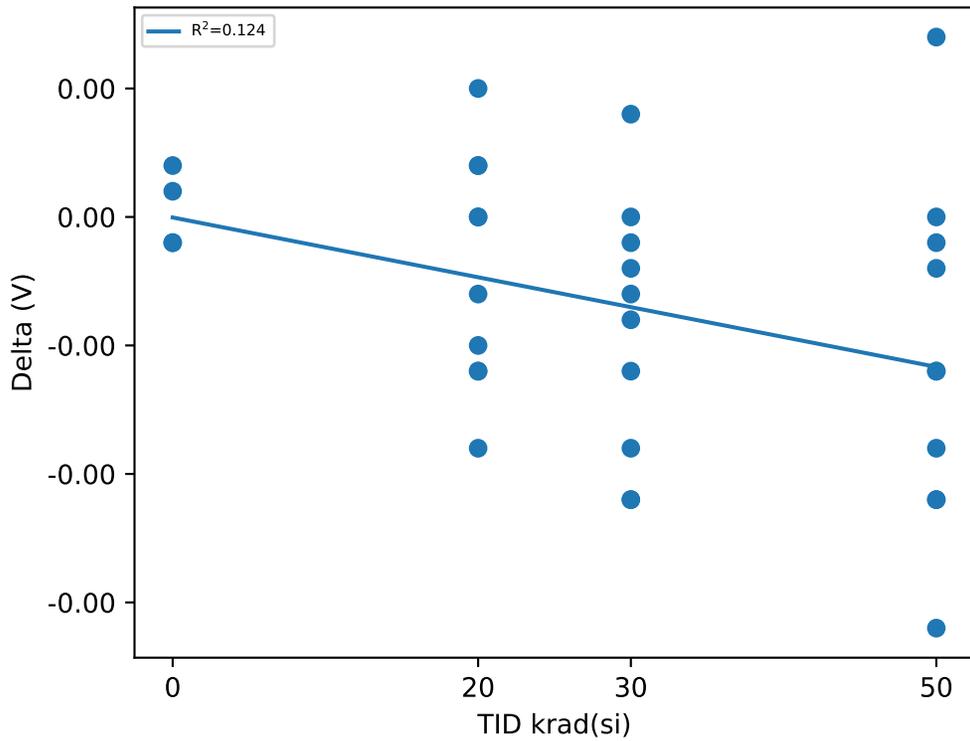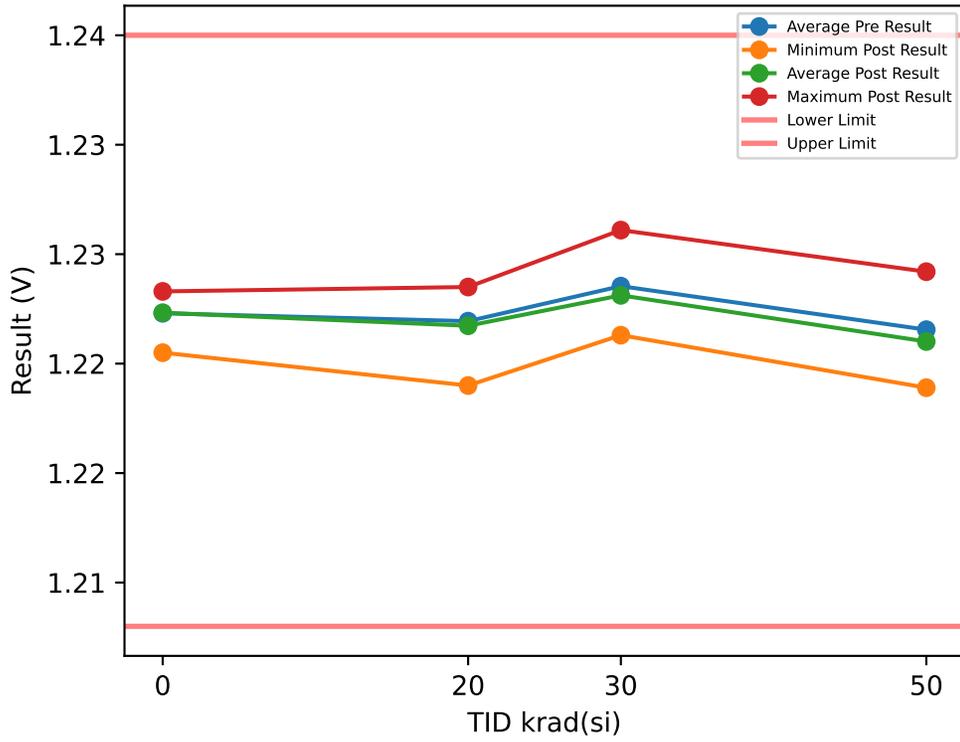| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.2221	1.2221	0
23	20	HDR BIAS	1.2239	1.2233	-0.0006
24	20	HDR BIAS	1.22	1.2194	-0.0006
25	20	HDR BIAS	1.2229	1.2224	-0.0005
26	20	HDR UNBIAS	1.2226	1.2223	-0.0003
27	20	HDR UNBIAS	1.2222	1.2224	0.0002
28	20	HDR UNBIAS	1.2191	1.219	-0.0001
29	20	HDR UNBIAS	1.2225	1.2229	0.0004
30	20	HDR UNBIAS	1.221	1.2202	-0.0008
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
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
20	1.2191	1.222	1.2239	0.0014968	1.219	1.2217	1.2235	0.0016174	-0.0008	-0.00021	0.0004	0.00040947
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

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

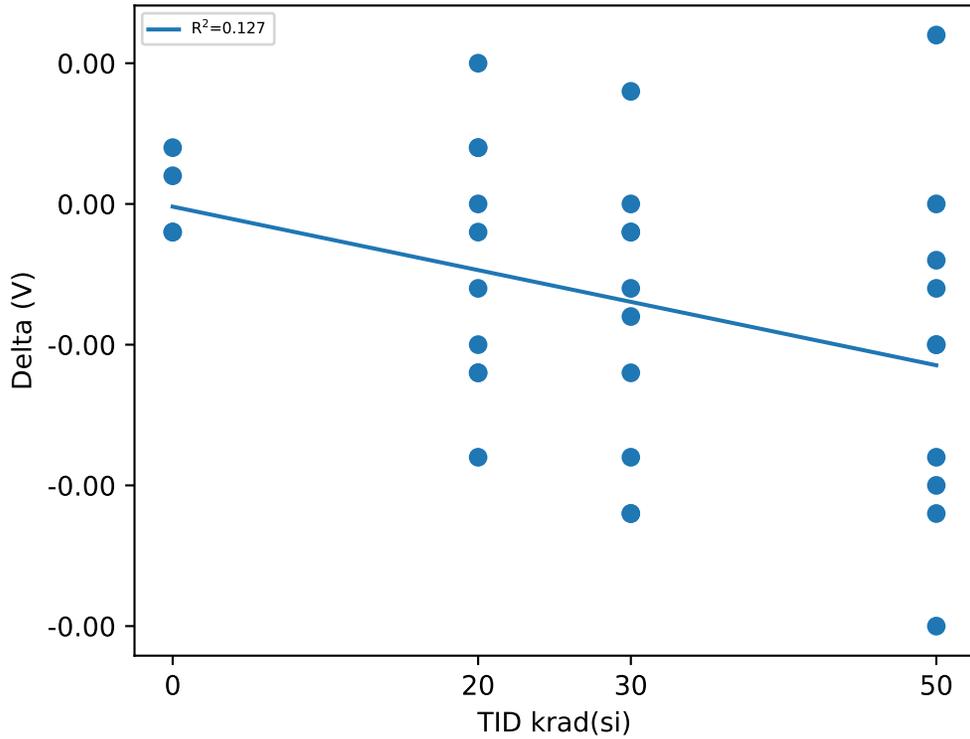## TID vs Result Stats

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
21	20	HDR BIAS	1.2232	1.2234	0.0002
22	20	HDR BIAS	1.222	1.222	0
23	20	HDR BIAS	1.2238	1.2232	-0.0006
24	20	HDR BIAS	1.2199	1.2193	-0.0006
25	20	HDR BIAS	1.2228	1.2223	-0.0005
26	20	HDR UNBIAS	1.2225	1.2222	-0.0003
27	20	HDR UNBIAS	1.2221	1.2223	0.0002
28	20	HDR UNBIAS	1.219	1.2189	-0.0001
29	20	HDR UNBIAS	1.2223	1.2228	0.0005
30	20	HDR UNBIAS	1.2209	1.2201	-0.0008
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
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
20	1.219	1.2219	1.2238	0.0014931	1.2189	1.2216	1.2234	0.0016174	-0.0008	-0.0002	0.0005	0.00042687
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

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

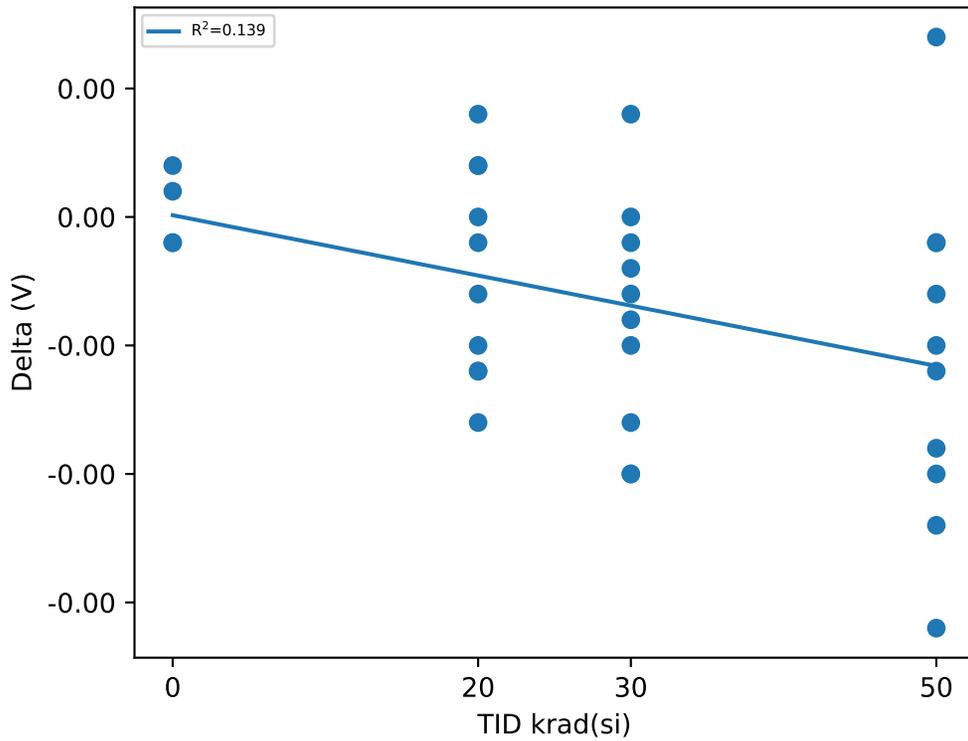### TID vs Result Stats

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
21	20	HDR BIAS	1.2232	1.2234	0.0002
22	20	HDR BIAS	1.222	1.222	0
23	20	HDR BIAS	1.2238	1.2232	-0.0006
24	20	HDR BIAS	1.2199	1.2193	-0.0006
25	20	HDR BIAS	1.2228	1.2223	-0.0005
26	20	HDR UNBIAS	1.2225	1.2223	-0.0002
27	20	HDR UNBIAS	1.2221	1.2223	0.0002
28	20	HDR UNBIAS	1.219	1.2189	-0.0001
29	20	HDR UNBIAS	1.2224	1.2228	0.0004
30	20	HDR UNBIAS	1.2209	1.2201	-0.0008
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
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
20	1.219	1.2219	1.2238	0.0014968	1.2189	1.2217	1.2234	0.0016215	-0.0008	-0.0002	0.0004	0.00040825
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
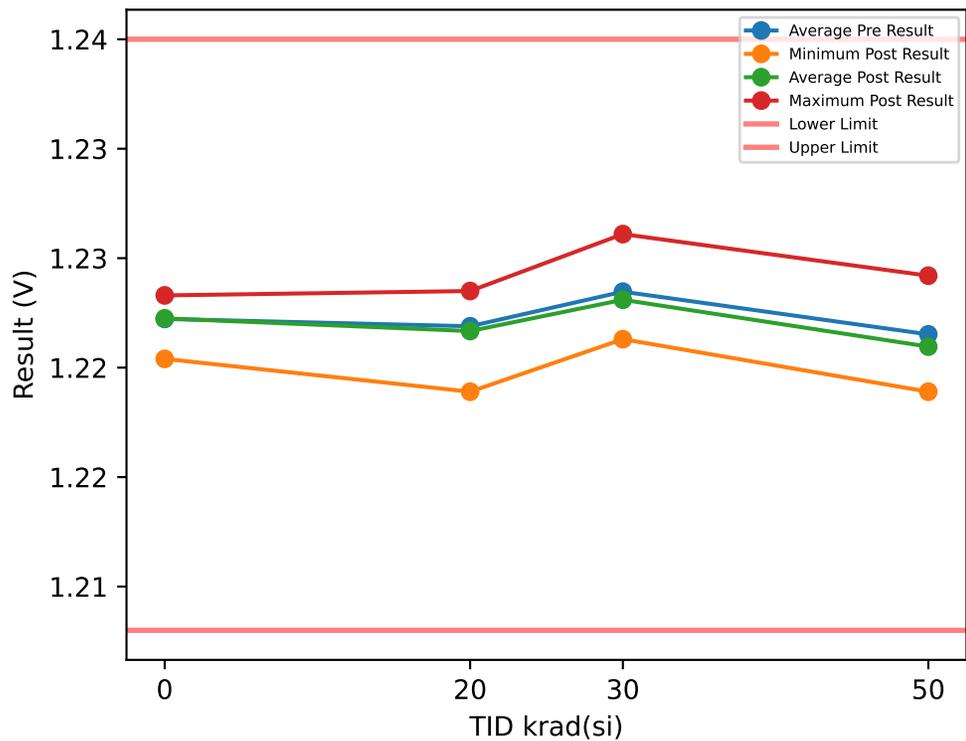
Device Test: 21.23 VOLTAGE|VREF/VREF/8/8/0/0/5/100kHz//@V_REFCAP

TID vs Result Stats
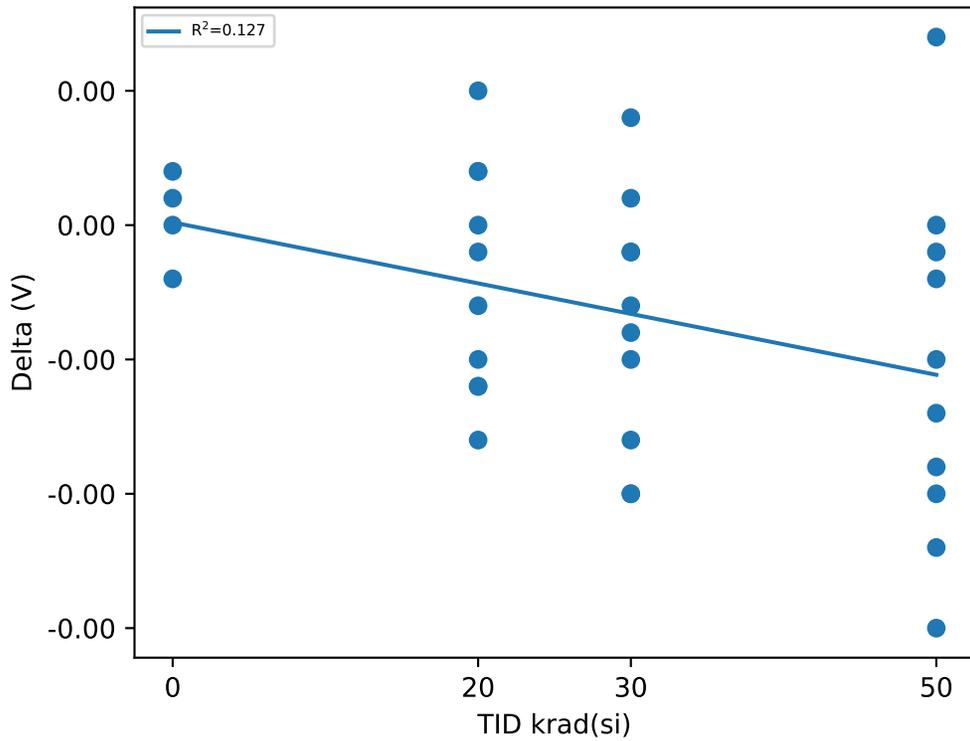

TID vs Post - Pre Exposure Delta

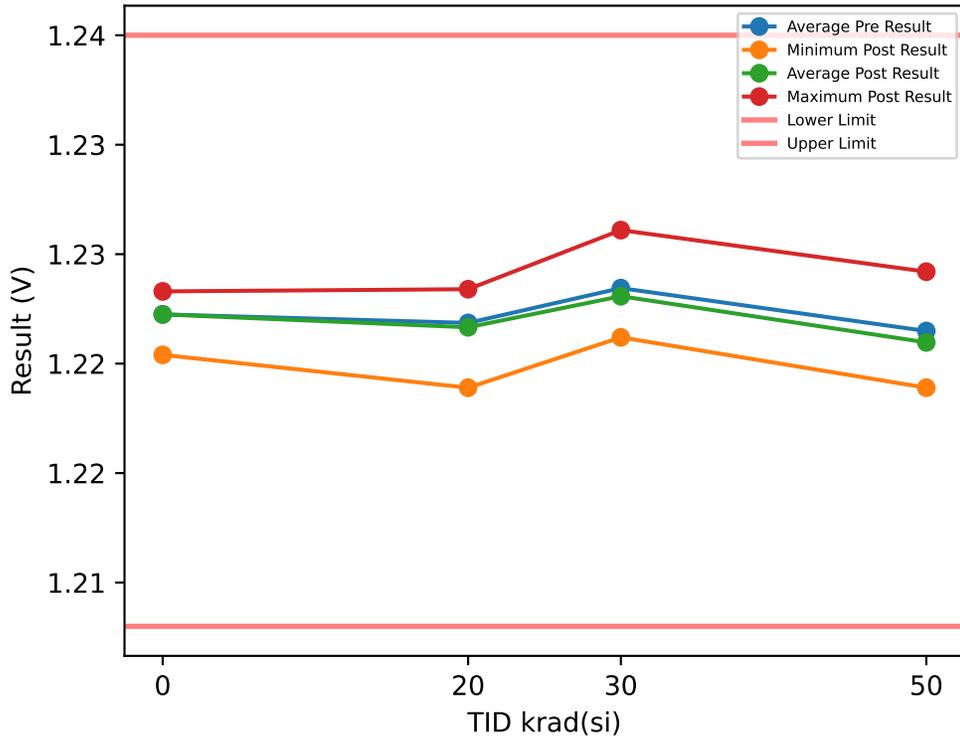## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.222	1.222	0
23	20	HDR BIAS	1.2238	1.2233	-0.0005
24	20	HDR BIAS	1.2199	1.2193	-0.0006
25	20	HDR BIAS	1.2229	1.2223	-0.0006
26	20	HDR UNBIAS	1.2226	1.2222	-0.0004
27	20	HDR UNBIAS	1.2221	1.2223	0.0002
28	20	HDR UNBIAS	1.219	1.2189	-0.0001
29	20	HDR UNBIAS	1.2224	1.2228	0.0004
30	20	HDR UNBIAS	1.2209	1.2201	-0.0008
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
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
20	1.219	1.2219	1.2238	0.0015191	1.2189	1.2217	1.2235	0.0016405	-0.0008	-0.00022	0.0004	0.00041312
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

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

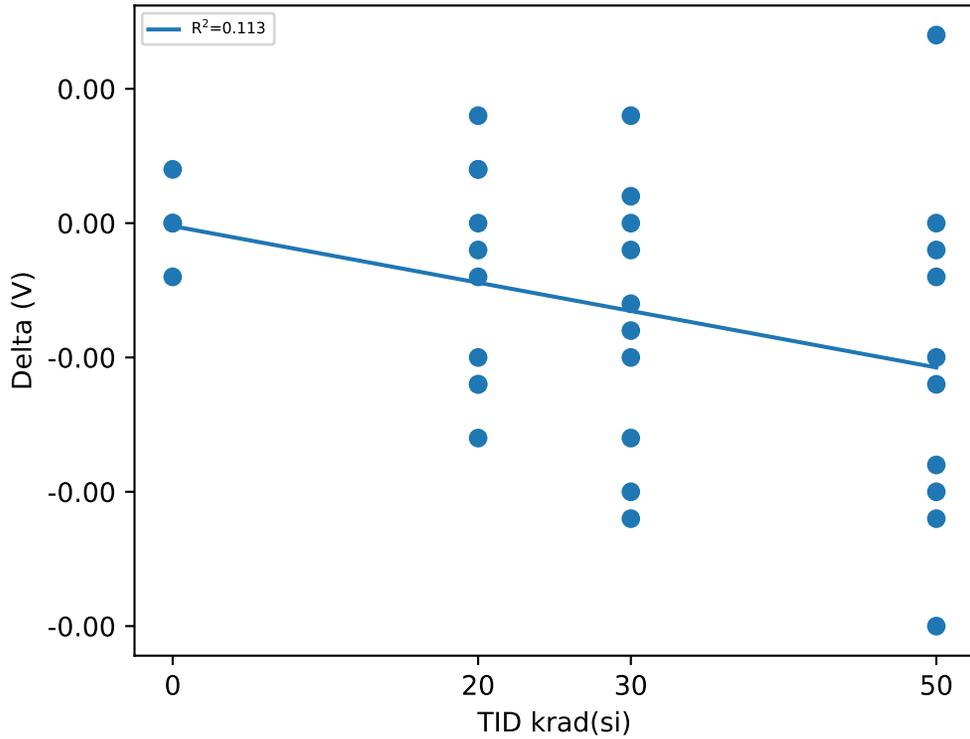## TID vs Result Stats

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
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.222	1.222	0
23	20	HDR BIAS	1.2239	1.2232	-0.0007
24	20	HDR BIAS	1.2199	1.2193	-0.0006
25	20	HDR BIAS	1.2229	1.2223	-0.0006
26	20	HDR UNBIAS	1.2225	1.2222	-0.0003
27	20	HDR UNBIAS	1.2221	1.2224	0.0003
28	20	HDR UNBIAS	1.219	1.2189	-0.0001
29	20	HDR UNBIAS	1.2224	1.2228	0.0004
30	20	HDR UNBIAS	1.2209	1.2201	-0.0008
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
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
20	1.219	1.2219	1.2239	0.0015286	1.2189	1.2217	1.2235	0.0016344	-0.0008	-0.00022	0.0004	0.00044171
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

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

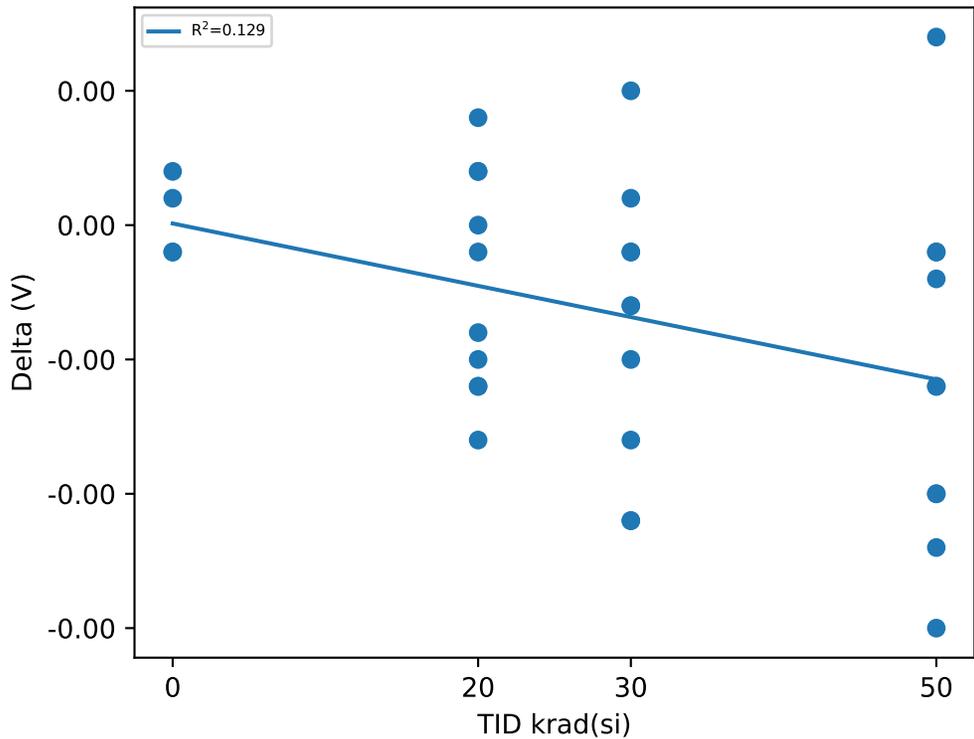## TID vs Result Stats

TID vs Post - Pre Exposure Delta

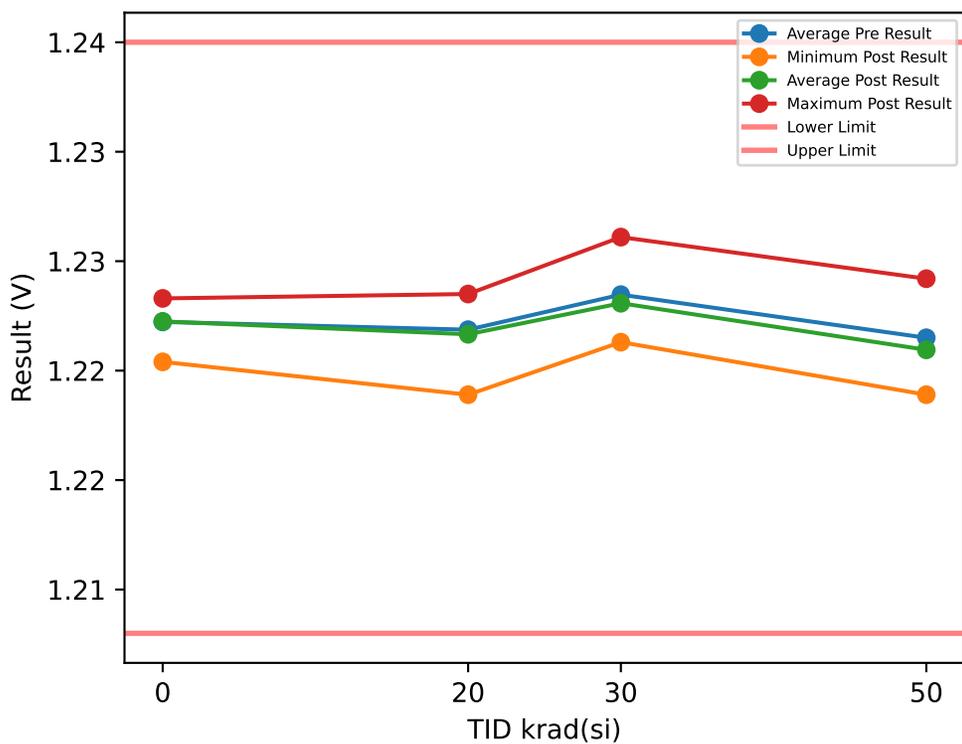## Test Results (Lower Limit = 1.208, Upper Limit = 1.235 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.222	1.222	0
23	20	HDR BIAS	1.2238	1.2232	-0.0006
24	20	HDR BIAS	1.2199	1.2193	-0.0006
25	20	HDR BIAS	1.2228	1.2223	-0.0005
26	20	HDR UNBIAS	1.2225	1.2222	-0.0003
27	20	HDR UNBIAS	1.2221	1.2223	0.0002
28	20	HDR UNBIAS	1.219	1.2189	-0.0001
29	20	HDR UNBIAS	1.2224	1.2228	0.0004
30	20	HDR UNBIAS	1.2209	1.2201	-0.0008
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
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
20	1.219	1.2219	1.2238	0.0015071	1.2189	1.2217	1.2235	0.0016297	-0.0008	-0.00021	0.0004	0.00040947
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
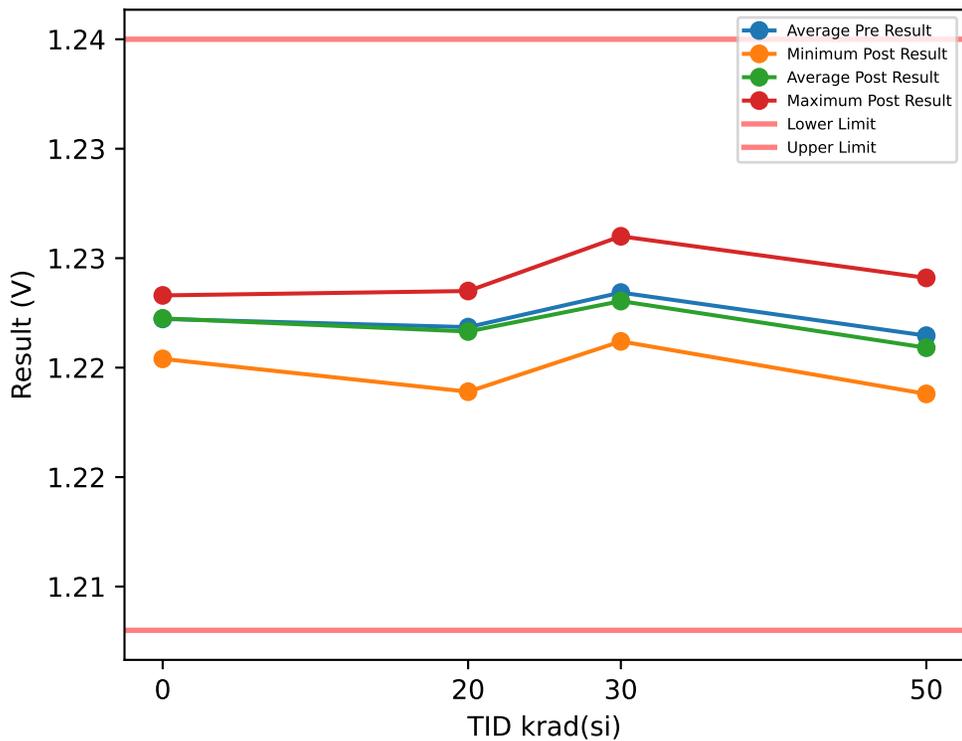
Device Test: 21.29 VOLTAGE|VREF/VREF/8/8/0/1000/5/500kHz//@V_REFCAP

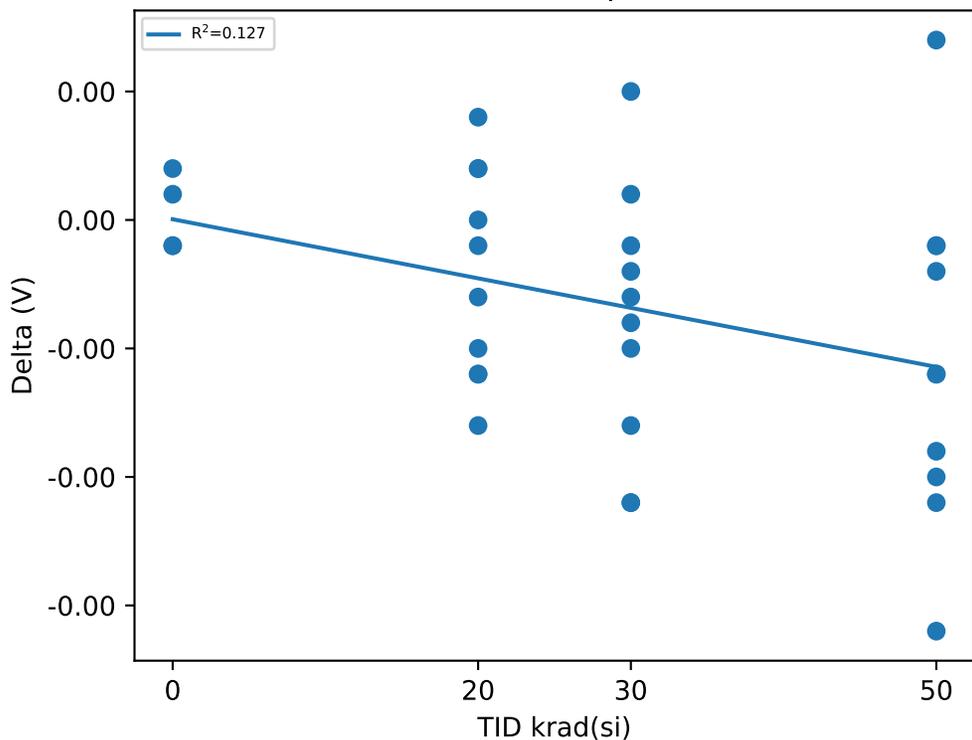## TID vs Result Stats

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
21	20	HDR BIAS	1.2232	1.2235	0.0003
22	20	HDR BIAS	1.222	1.222	0
23	20	HDR BIAS	1.2238	1.2232	-0.0006
24	20	HDR BIAS	1.2199	1.2193	-0.0006
25	20	HDR BIAS	1.2228	1.2223	-0.0005
26	20	HDR UNBIAS	1.2225	1.2222	-0.0003
27	20	HDR UNBIAS	1.2221	1.2223	0.0002
28	20	HDR UNBIAS	1.219	1.2189	-0.0001
29	20	HDR UNBIAS	1.2223	1.2228	0.0005
30	20	HDR UNBIAS	1.2209	1.22	-0.0009
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
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
20	1.219	1.2219	1.2238	0.0014931	1.2189	1.2216	1.2235	0.0016406	-0.0009	-0.0002	0.0005	0.00045461
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

Device Test: 21.5 VOLTAGE|VREF/VREF/12/12/0/0/5/100kHz//@V_REFCAP
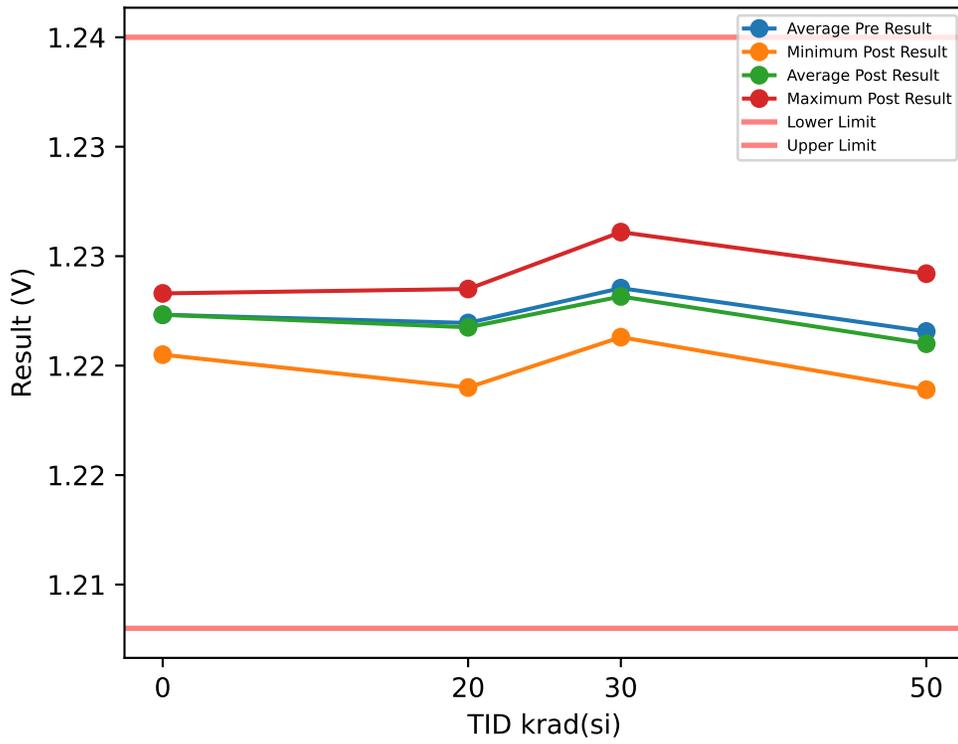
TID vs Result Stats
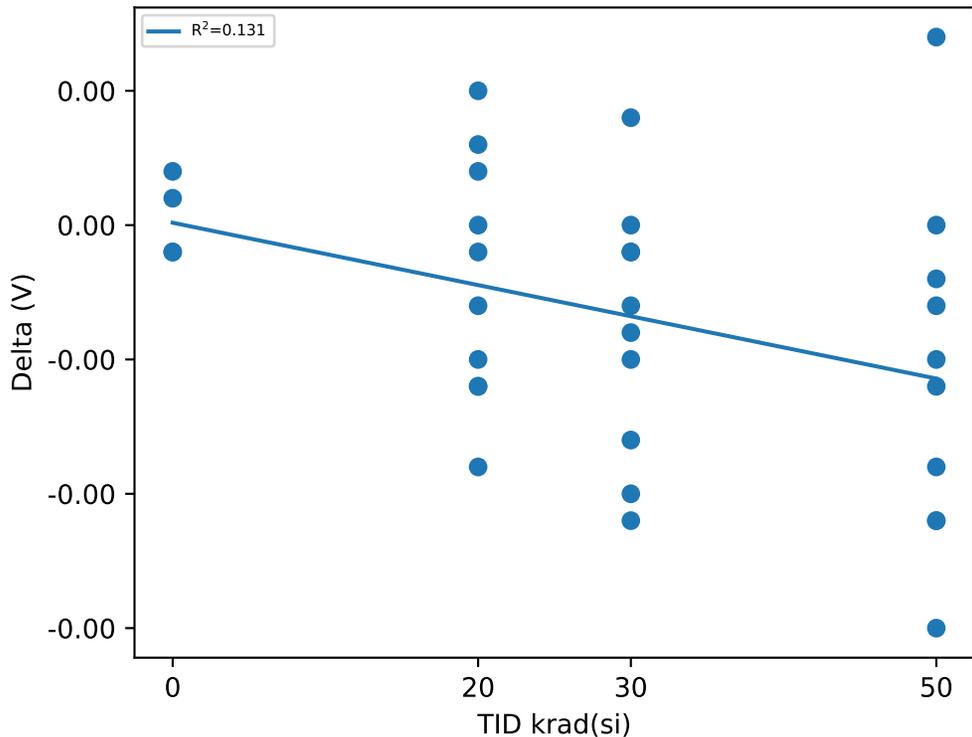

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2234	1.2235	0.0001
22	20	HDR BIAS	1.2221	1.2221	0
23	20	HDR BIAS	1.2239	1.2233	-0.0006
24	20	HDR BIAS	1.22	1.2194	-0.0006
25	20	HDR BIAS	1.2229	1.2224	-0.0005
26	20	HDR UNBIAS	1.2226	1.2223	-0.0003
27	20	HDR UNBIAS	1.2222	1.2224	0.0002
28	20	HDR UNBIAS	1.219	1.219	0
29	20	HDR UNBIAS	1.2224	1.2229	0.0005
30	20	HDR UNBIAS	1.221	1.2202	-0.0008
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
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
20	1.219	1.222	1.2239	0.0015248	1.219	1.2217	1.2235	0.0016174	-0.0008	-0.0002	0.0005	0.00042164
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

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

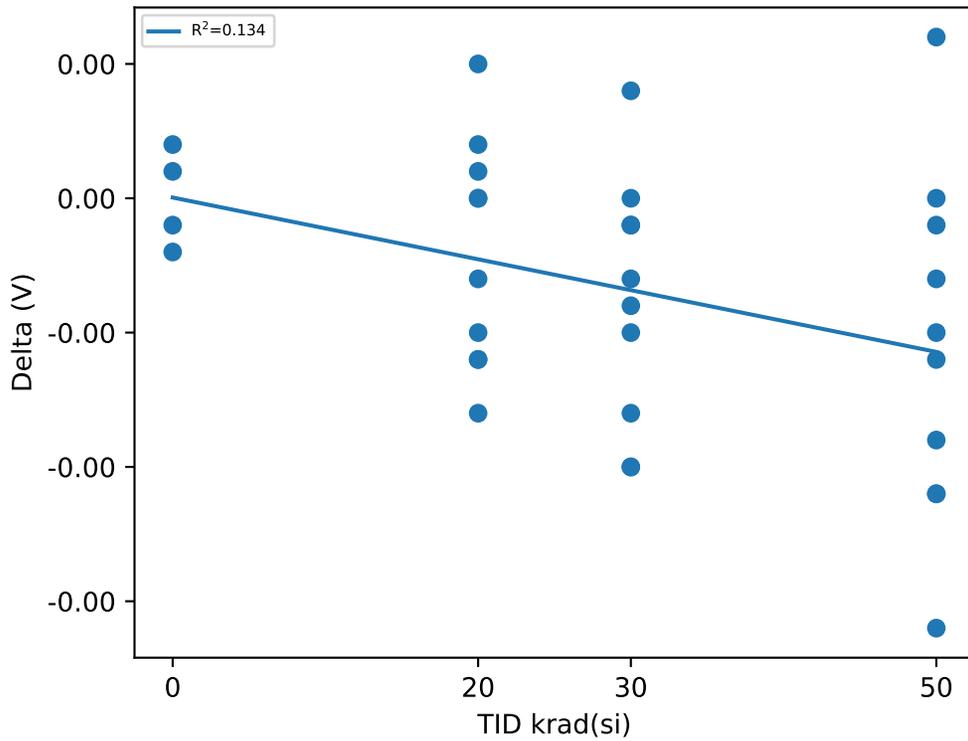## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

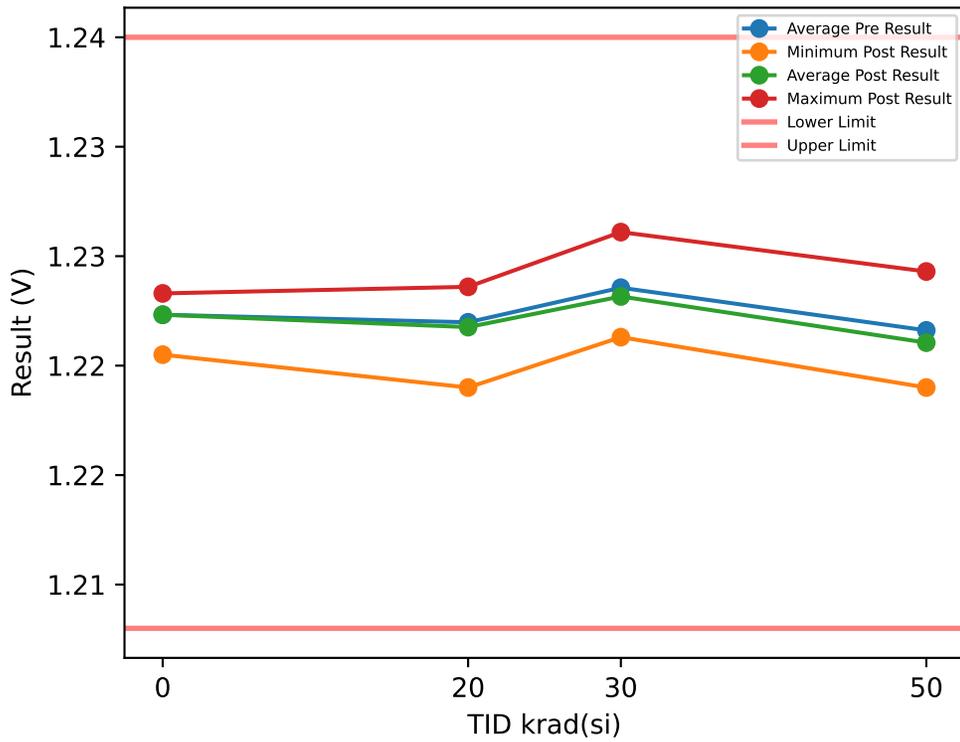| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2234	1.2236	0.0002
22	20	HDR BIAS	1.2221	1.2221	0
23	20	HDR BIAS	1.2239	1.2233	-0.0006
24	20	HDR BIAS	1.22	1.2194	-0.0006
25	20	HDR BIAS	1.223	1.2224	-0.0006
26	20	HDR UNBIAS	1.2226	1.2223	-0.0003
27	20	HDR UNBIAS	1.2222	1.2224	0.0002
28	20	HDR UNBIAS	1.2191	1.219	-0.0001
29	20	HDR UNBIAS	1.2225	1.2229	0.0004
30	20	HDR UNBIAS	1.221	1.2202	-0.0008
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
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
20	1.2191	1.222	1.2239	0.0015142	1.219	1.2218	1.2236	0.0016297	-0.0008	-0.00022	0.0004	0.00041846
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

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

TID vs Result Stats

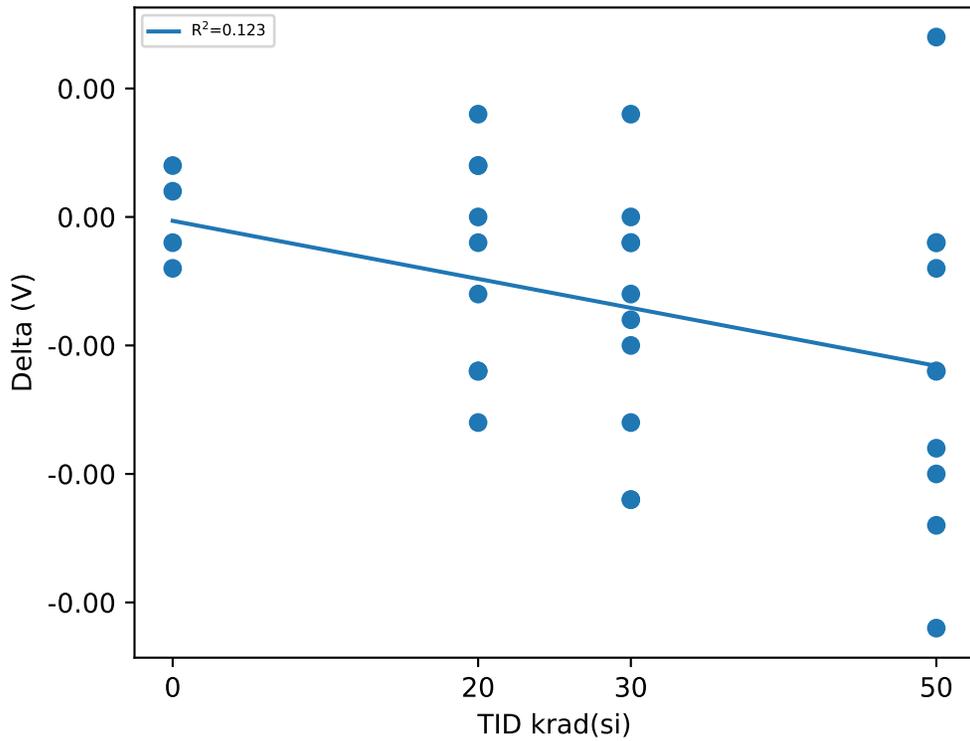

TID vs Post - Pre Exposure Delta

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

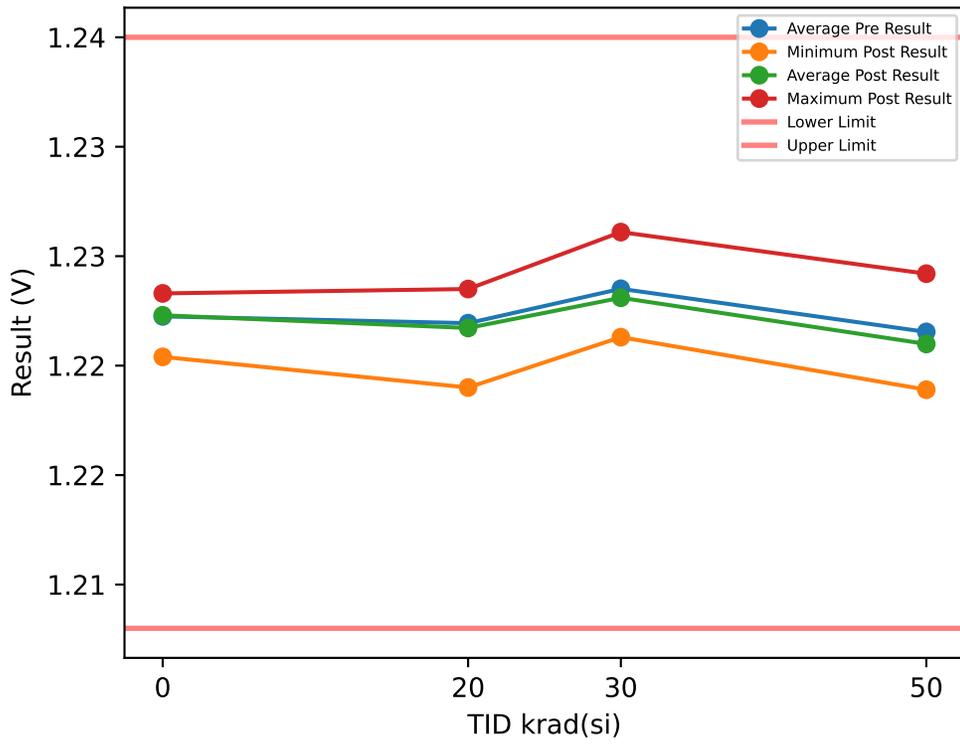| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.2233	1.2235	0.0002
22	20	HDR BIAS	1.2221	1.2221	0
23	20	HDR BIAS	1.2239	1.2233	-0.0006
24	20	HDR BIAS	1.22	1.2193	-0.0007
25	20	HDR BIAS	1.2229	1.2224	-0.0005
26	20	HDR UNBIAS	1.2226	1.2223	-0.0003
27	20	HDR UNBIAS	1.2222	1.2224	0.0002
28	20	HDR UNBIAS	1.219	1.219	0
29	20	HDR UNBIAS	1.2224	1.2228	0.0004
30	20	HDR UNBIAS	1.221	1.2201	-0.0009
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
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

Test Statistics (V)
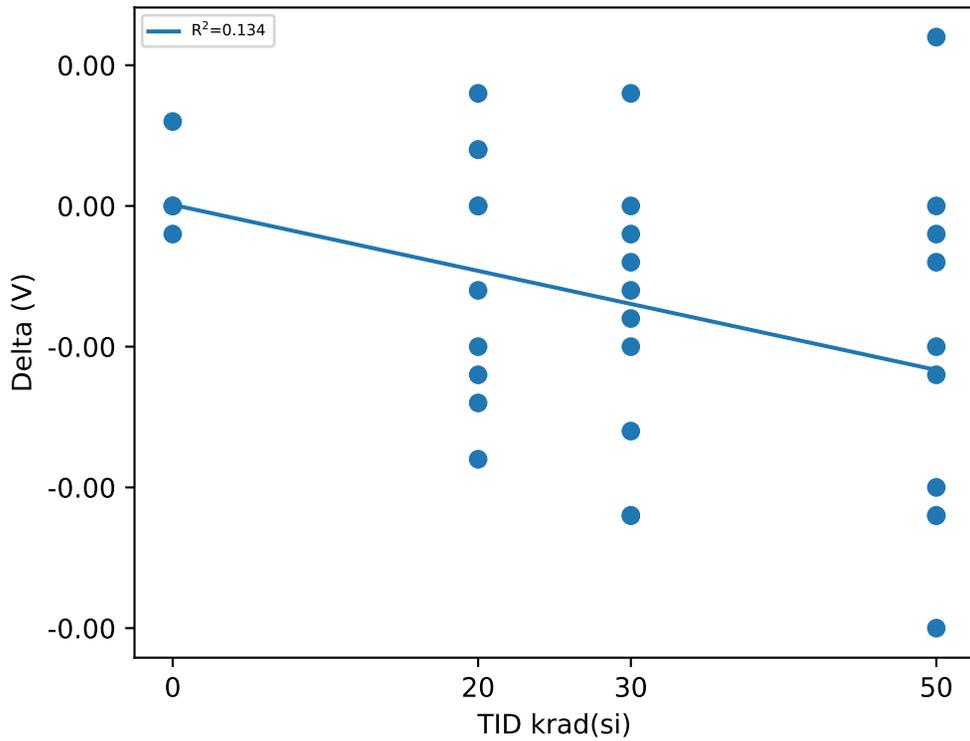
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2204	1.2223	1.2234	0.0014107	1.2204	1.2223	1.2233	0.0013687	-0.0001	5e-05	0.0003	0.00017321
20	1.219	1.2219	1.2239	0.0015145	1.219	1.2217	1.2235	0.0016369	-0.0009	-0.00022	0.0004	0.00044171
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

Device Test: 23.19 LEVEL|HS_RDSON/OUTH/12/12/100/0/5/500kHz//@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
21	20	HDR BIAS	2.3276	2.3345	0.0069
22	20	HDR BIAS	2.3302	2.3314	0.0012
23	20	HDR BIAS	2.3337	2.3543	0.0206
24	20	HDR BIAS	2.3116	2.3265	0.0149
25	20	HDR BIAS	2.348	2.3416	-0.0064
26	20	HDR UNBIAS	2.342	2.3535	0.0115
27	20	HDR UNBIAS	2.3275	2.3427	0.0152
28	20	HDR UNBIAS	2.3445	2.3398	-0.0047
29	20	HDR UNBIAS	2.331	2.3355	0.0045
30	20	HDR UNBIAS	2.3274	2.3417	0.0143
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
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
20	2.3116	2.3323	2.348	0.010515	2.3265	2.3401	2.3543	0.0088569	-0.0064	0.0078	0.0206	0.009056
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 2.8 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.5783	1.5579	-0.0204
22	20	HDR BIAS	1.6016	1.5773	-0.0243
23	20	HDR BIAS	1.5934	1.5595	-0.0339
24	20	HDR BIAS	1.5881	1.563	-0.0251
25	20	HDR BIAS	1.6159	1.5755	-0.0404
26	20	HDR UNBIAS	1.5844	1.5828	-0.0016
27	20	HDR UNBIAS	1.5793	1.5694	-0.0099
28	20	HDR UNBIAS	1.6078	1.5968	-0.011
29	20	HDR UNBIAS	1.5826	1.5764	-0.0062
30	20	HDR UNBIAS	1.5783	1.5758	-0.0025
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
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)
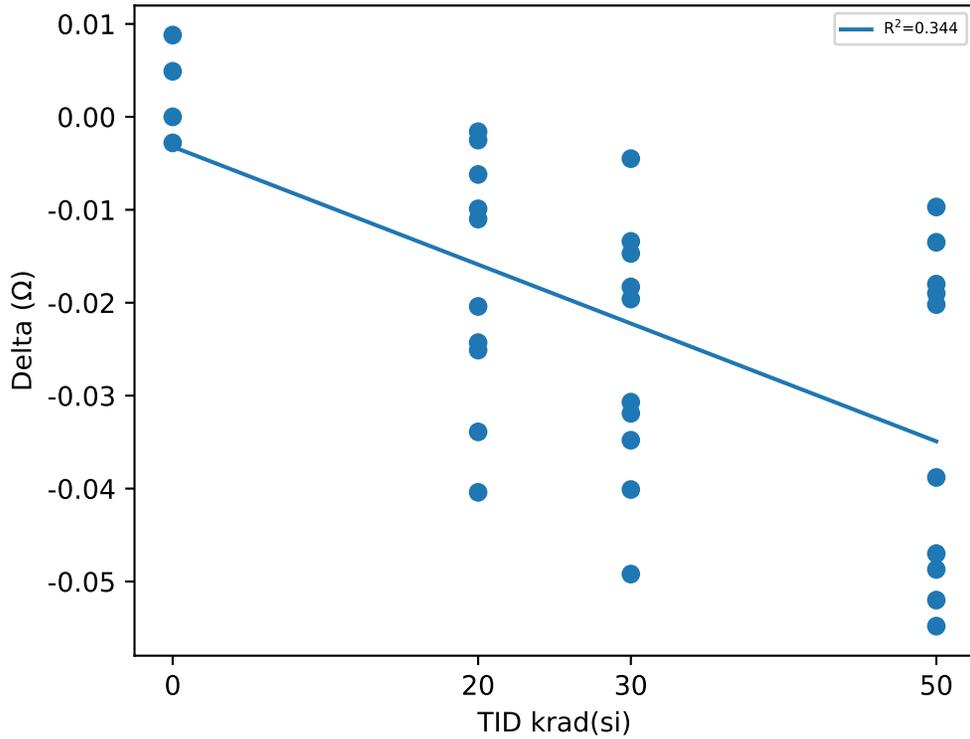
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5755	1.5851	1.5995	0.010354	1.5843	1.5878	1.5967	0.0059158	-0.0028	0.002725	0.0088	0.0051506
20	1.5783	1.591	1.6159	0.013343	1.5579	1.5734	1.5968	0.01168	-0.0404	-0.01753	-0.0016	0.01338
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
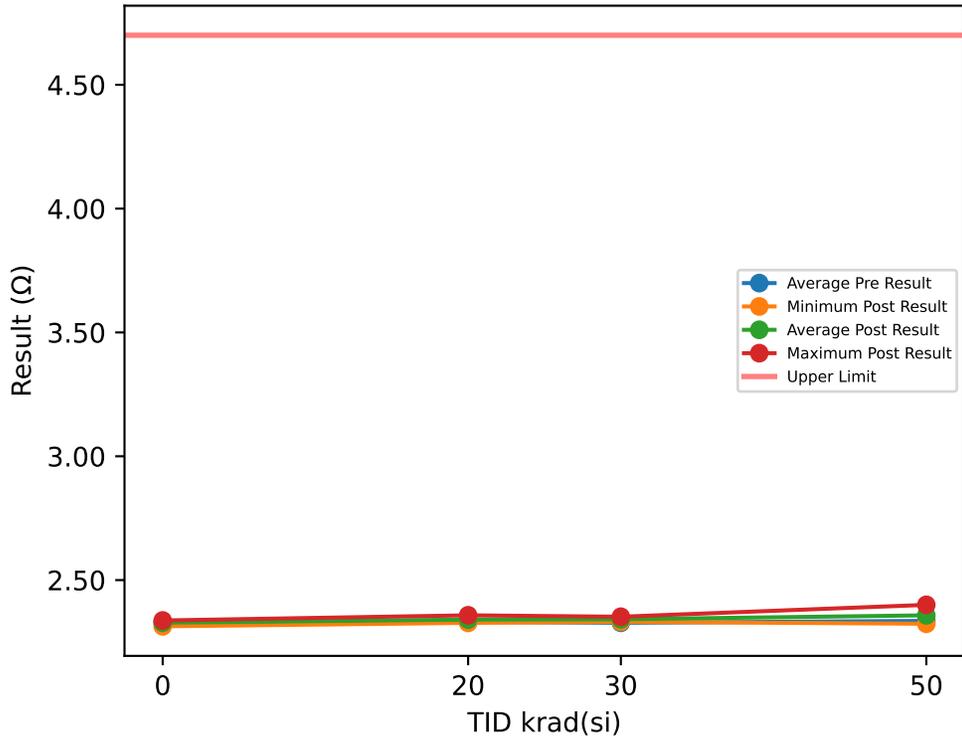
Device Test: 23.21 LEVEL|HS_RDSON/OUTH/14/14/100/0/5/500kHz//@ROH

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
21	20	HDR BIAS	2.3213	2.3392	0.0179
22	20	HDR BIAS	2.3294	2.3273	-0.0021
23	20	HDR BIAS	2.3352	2.3578	0.0226
24	20	HDR BIAS	2.3114	2.3309	0.0195
25	20	HDR BIAS	2.3461	2.3406	-0.0055
26	20	HDR UNBIAS	2.343	2.3532	0.0102
27	20	HDR UNBIAS	2.3215	2.3451	0.0236
28	20	HDR UNBIAS	2.3446	2.3422	-0.0024
29	20	HDR UNBIAS	2.3316	2.3334	0.0018
30	20	HDR UNBIAS	2.3265	2.3372	0.0107
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
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)
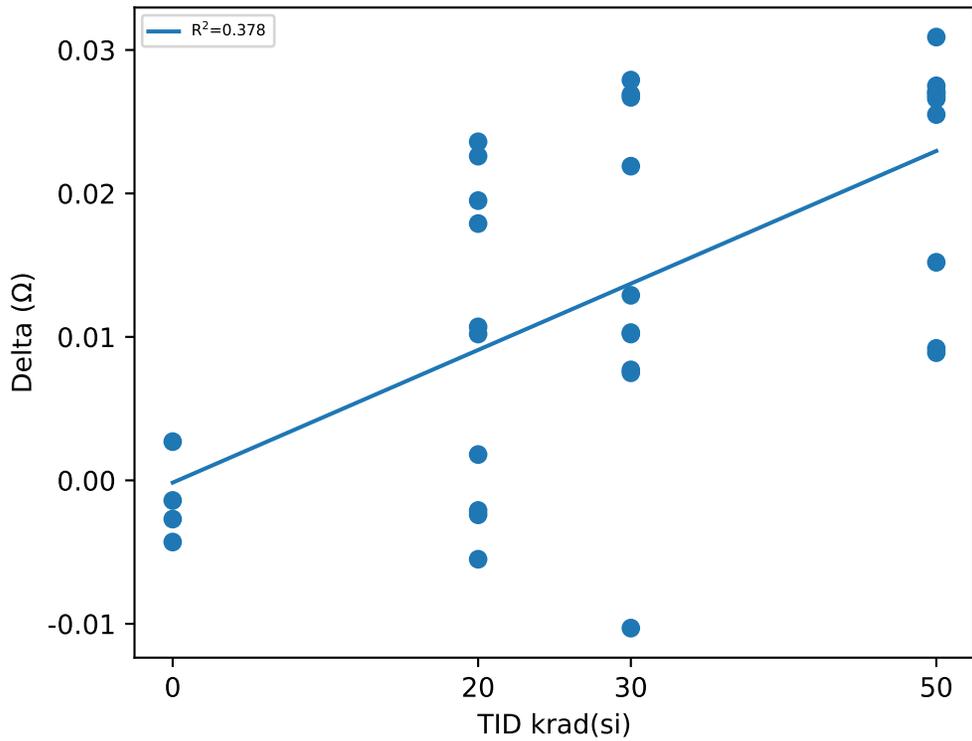
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3176	2.3294	2.3357	0.0082123	2.3133	2.3279	2.3369	0.010338	-0.0043	-0.001425	0.0027	0.0029949
20	2.3114	2.3311	2.3461	0.011383	2.3273	2.3407	2.3578	0.0095083	-0.0055	0.00963	0.0236	0.011071
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
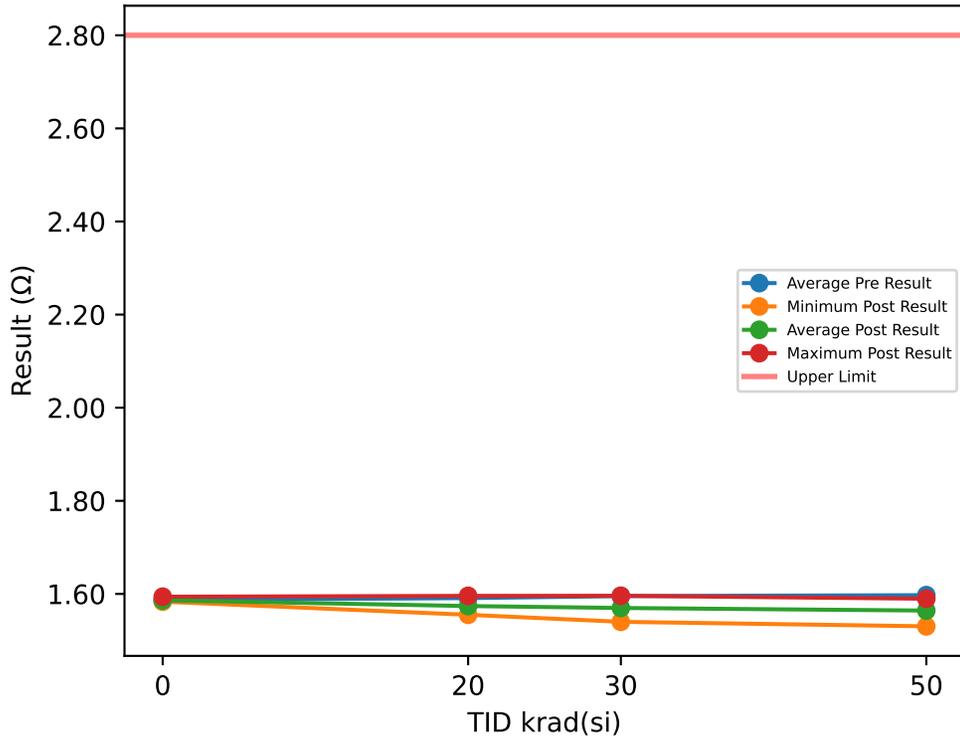
Device Test: 23.22 LEVEL|LS_RDSON/OUTL/14/14/100/0/5/500kHz//@ROL

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 2.8 (Ω))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.5793	1.557	-0.0223
22	20	HDR BIAS	1.6035	1.5784	-0.0251
23	20	HDR BIAS	1.5925	1.5552	-0.0373
24	20	HDR BIAS	1.5915	1.5659	-0.0256
25	20	HDR BIAS	1.6133	1.5774	-0.0359
26	20	HDR UNBIAS	1.5878	1.5825	-0.0053
27	20	HDR UNBIAS	1.58	1.5729	-0.0071
28	20	HDR UNBIAS	1.6025	1.5958	-0.0067
29	20	HDR UNBIAS	1.5836	1.5764	-0.0072
30	20	HDR UNBIAS	1.5765	1.5783	0.0018
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
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)
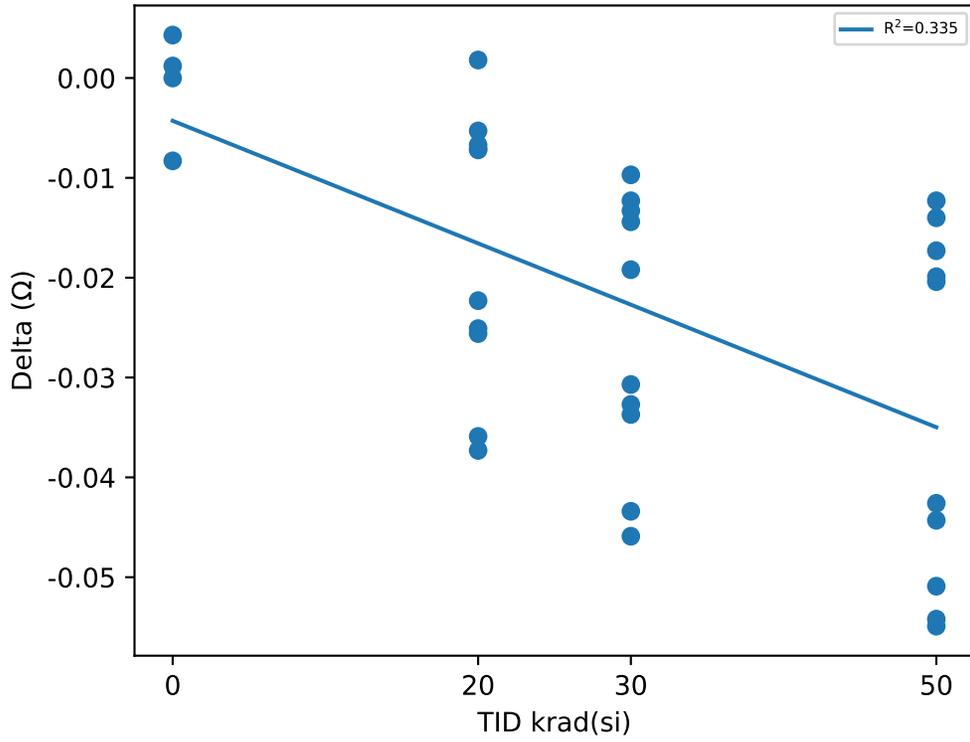
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5792	1.587	1.6023	0.010404	1.5834	1.5863	1.594	0.0051364	-0.0083	-0.0007	0.0043	0.0053808
20	1.5765	1.591	1.6133	0.012117	1.5552	1.574	1.5958	0.012073	-0.0373	-0.01707	0.0018	0.013854
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
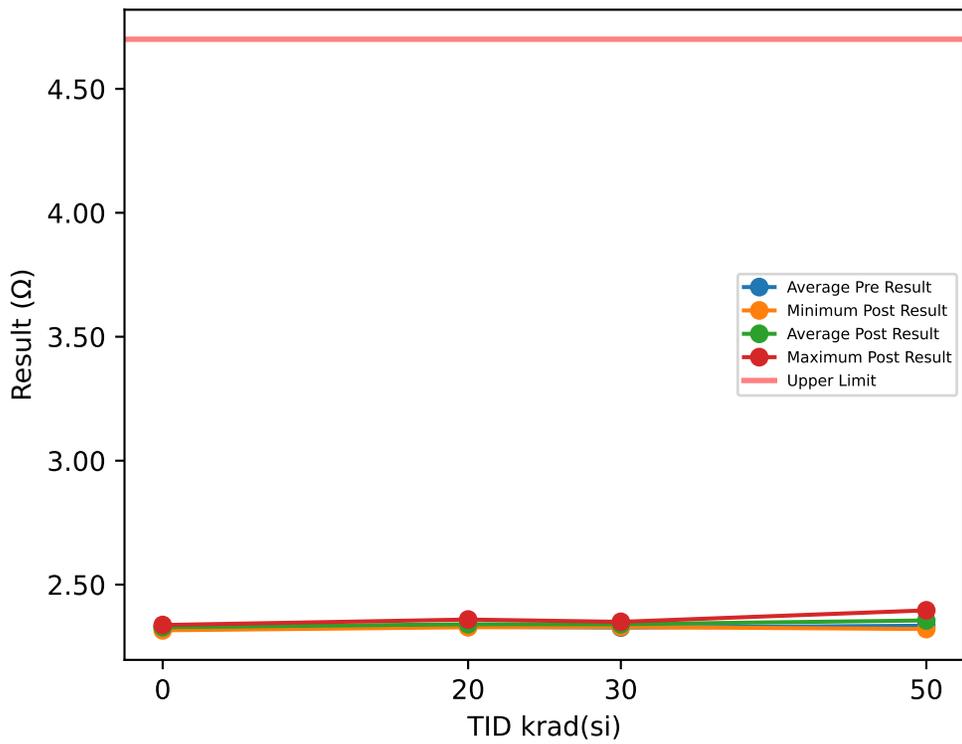
Device Test: 23.23 LEVEL|HS_RDSON/OUTH/12/12/500/0/5/500kHz//@ROH

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
21	20	HDR BIAS	2.3272	2.3379	0.0107
22	20	HDR BIAS	2.3245	2.328	0.0035
23	20	HDR BIAS	2.3363	2.3591	0.0228
24	20	HDR BIAS	2.3127	2.3284	0.0157
25	20	HDR BIAS	2.3403	2.3391	-0.0012
26	20	HDR UNBIAS	2.3381	2.3479	0.0098
27	20	HDR UNBIAS	2.3276	2.3439	0.0163
28	20	HDR UNBIAS	2.3354	2.341	0.0056
29	20	HDR UNBIAS	2.3322	2.3332	0.001
30	20	HDR UNBIAS	2.3277	2.3428	0.0151
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
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)
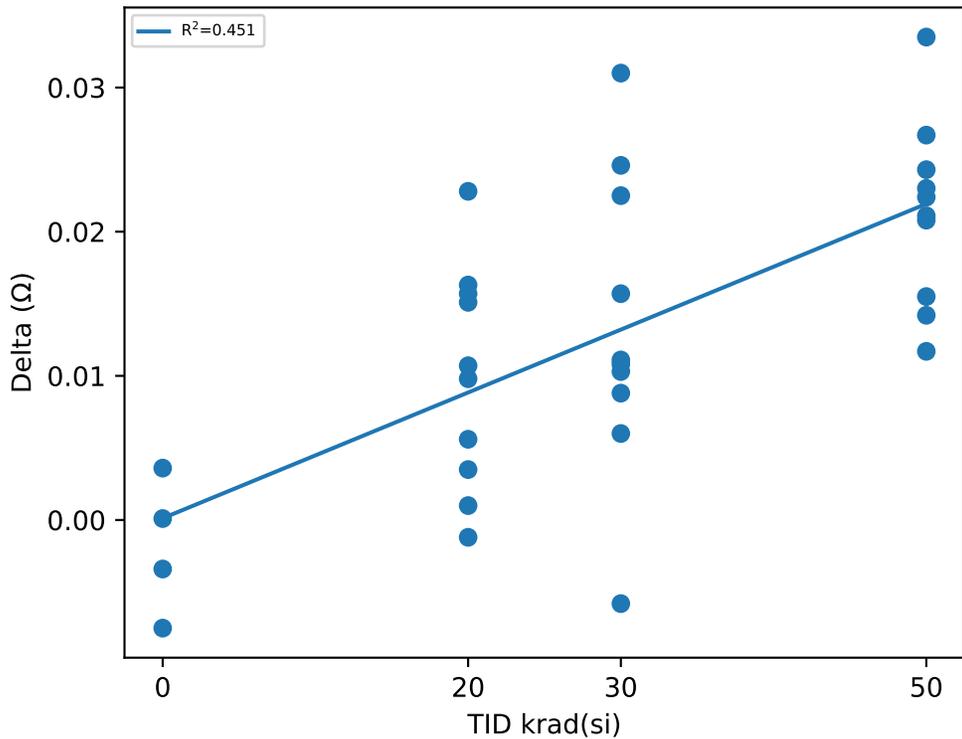
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.3231	2.3299	2.3334	0.0046349	2.3156	2.3281	2.337	0.0091416	-0.0075	-0.0018	0.0036	0.0047546
20	2.3127	2.3302	2.3403	0.0081201	2.328	2.3401	2.3591	0.0093162	-0.0012	0.00993	0.0228	0.007678
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
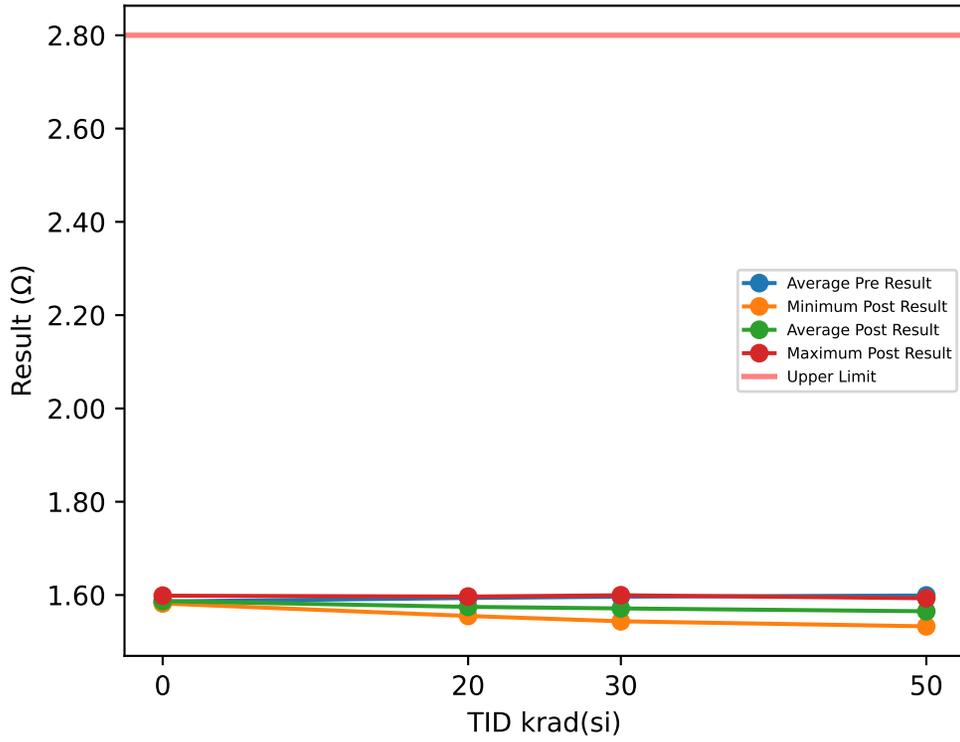
Device Test: 23.24 LEVEL|LS_RDSON/OUTL/12/12/500/0/5/500kHz//@ROL

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 2.8 (Ω))

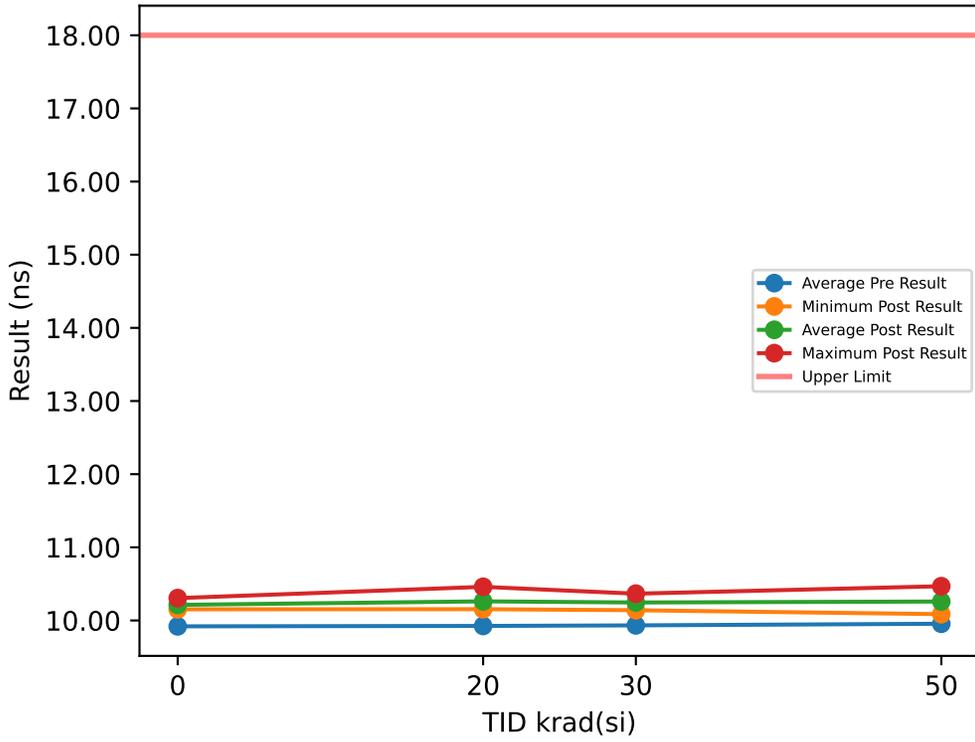| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.5827	1.5551	-0.0276
22	20	HDR BIAS	1.6062	1.5818	-0.0244
23	20	HDR BIAS	1.5942	1.557	-0.0372
24	20	HDR BIAS	1.5897	1.565	-0.0247
25	20	HDR BIAS	1.6176	1.5793	-0.0383
26	20	HDR UNBIAS	1.5861	1.5835	-0.0026
27	20	HDR UNBIAS	1.5835	1.572	-0.0115
28	20	HDR UNBIAS	1.609	1.5967	-0.0123
29	20	HDR UNBIAS	1.5862	1.5782	-0.008
30	20	HDR UNBIAS	1.5812	1.5774	-0.0038
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
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)
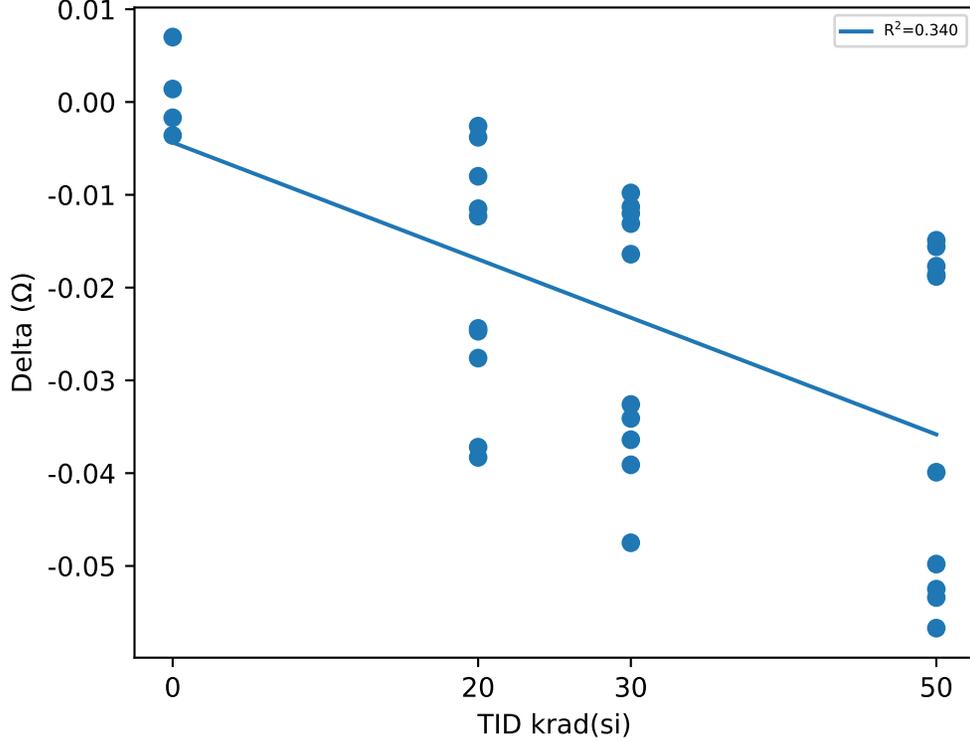
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5757	1.5861	1.6022	0.011529	1.5819	1.5869	1.5986	0.0078589	-0.0036	0.000775	0.007	0.0046335
20	1.5812	1.5936	1.6176	0.012794	1.5551	1.5746	1.5967	0.012699	-0.0383	-0.01904	-0.0026	0.013172
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 18.0 (ns))

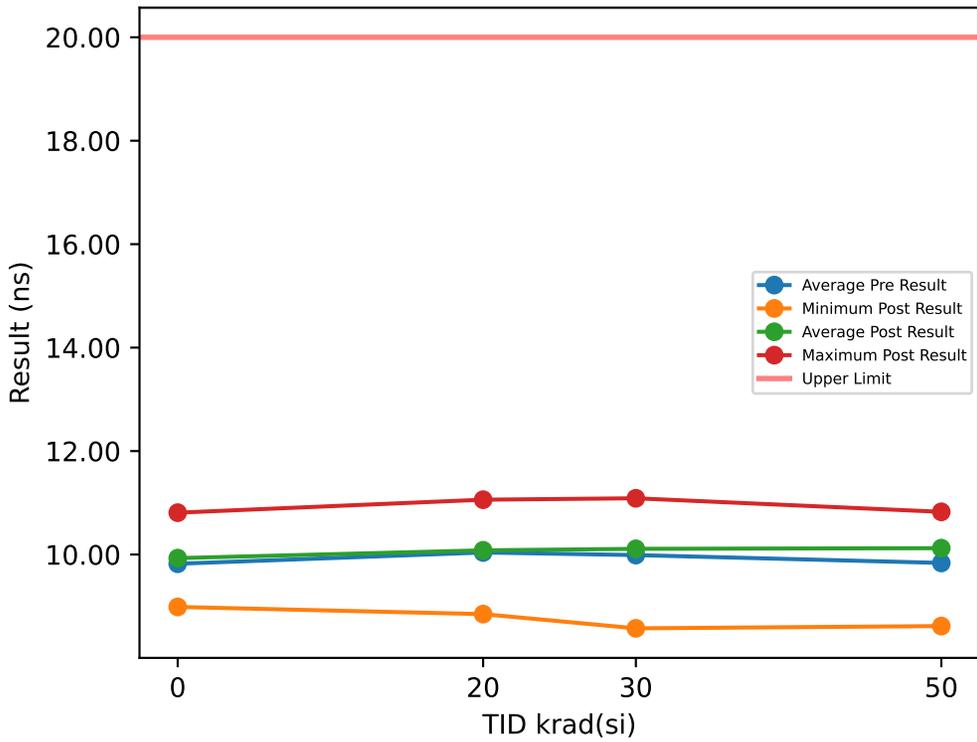| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	9.7612	10.158	0.3963
22	20	HDR BIAS	9.9389	10.46	0.5209
23	20	HDR BIAS	10.067	10.202	0.1354
24	20	HDR BIAS	9.8623	10.155	0.2922
25	20	HDR BIAS	9.9089	10.204	0.2953
26	20	HDR UNBIAS	10.073	10.413	0.3402
27	20	HDR UNBIAS	9.7981	10.234	0.4357
28	20	HDR UNBIAS	10.006	10.28	0.2741
29	20	HDR UNBIAS	10.01	10.155	0.1449
30	20	HDR UNBIAS	9.8296	10.356	0.5262
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
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)
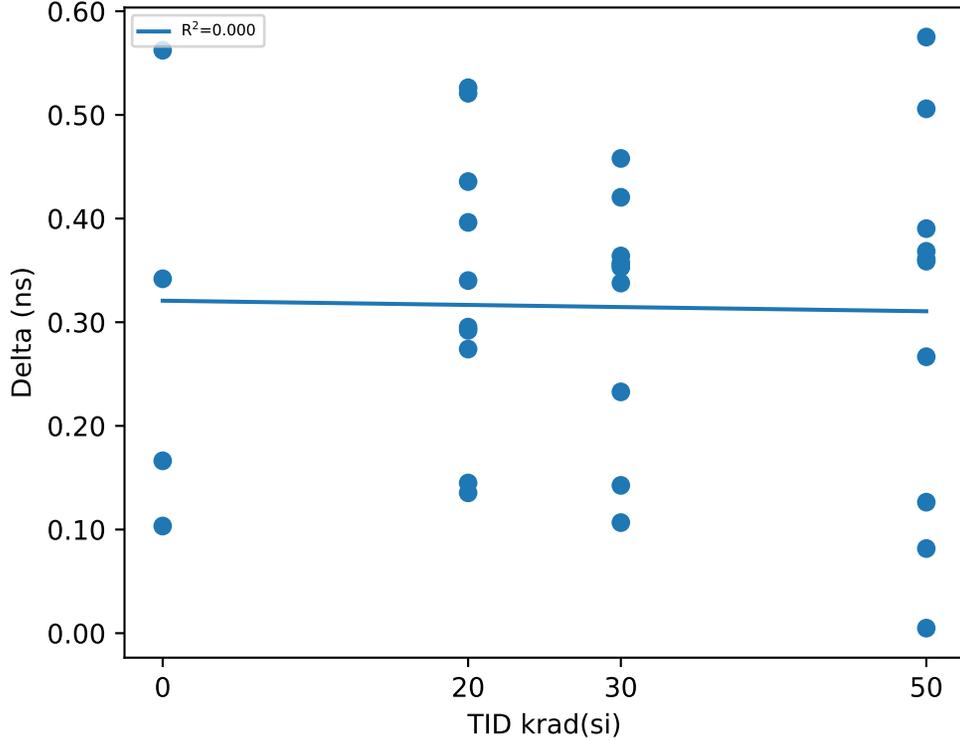
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.7433	9.92	10.096	0.16958	10.152	10.213	10.306	0.065119	0.1034	0.2935	0.5624	0.20572
20	9.7612	9.9255	10.073	0.11162	10.155	10.262	10.46	0.11192	0.1354	0.33612	0.5262	0.13668
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 20.0 (ns))

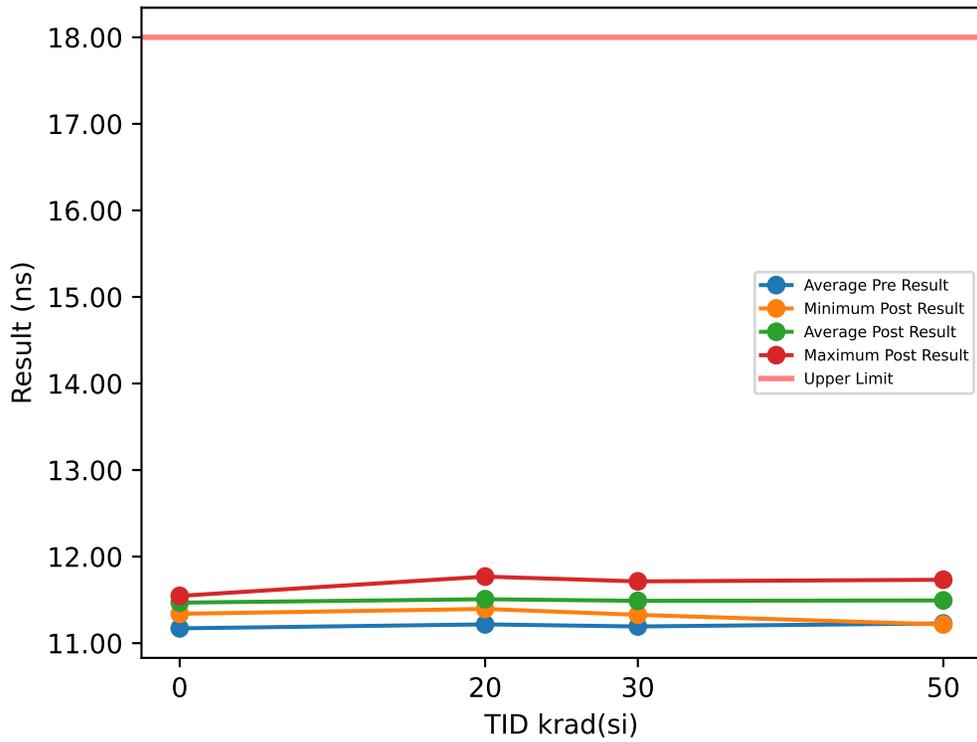| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	10.809	11.06	0.2514
22	20	HDR BIAS	10.873	9.369	-1.504
23	20	HDR BIAS	8.7416	8.9278	0.1862
24	20	HDR BIAS	10.925	11.04	0.1158
25	20	HDR BIAS	10.217	10.762	0.5447
26	20	HDR UNBIAS	8.7519	9.5089	0.757
27	20	HDR UNBIAS	10.73	8.8481	-1.8818
28	20	HDR UNBIAS	10.207	10.728	0.5208
29	20	HDR UNBIAS	8.4647	11.023	2.5583
30	20	HDR UNBIAS	10.674	9.5469	-1.1273
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
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)
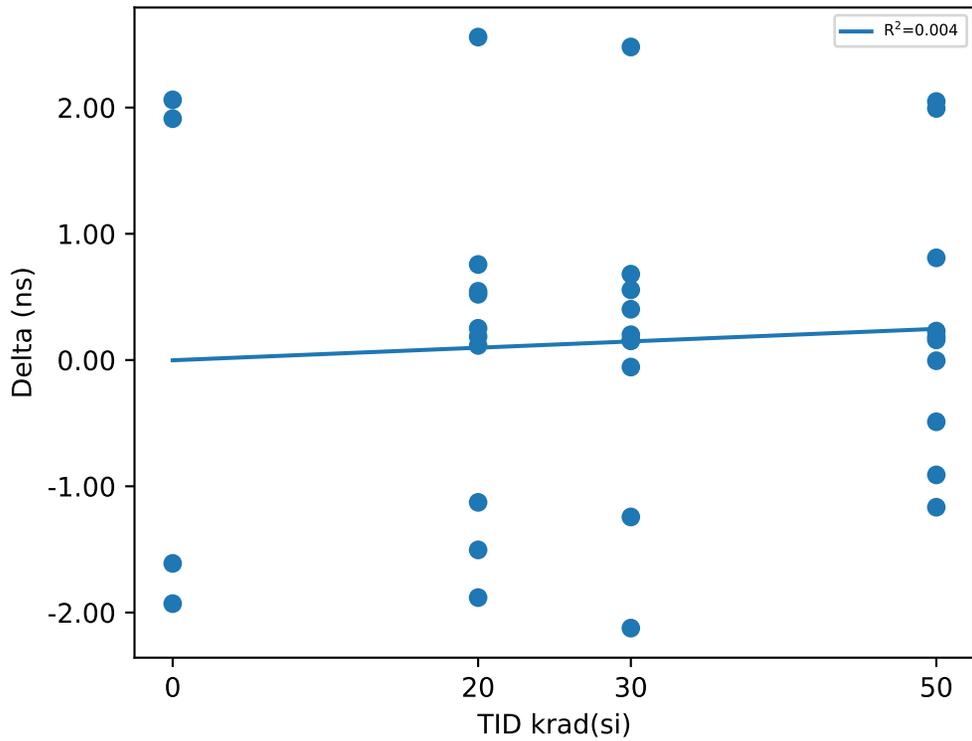
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.7034	9.822	10.92	1.2661	8.9872	9.9301	10.809	0.91595	-1.9296	0.1081	2.061	2.1737
20	8.4647	10.039	10.925	0.99059	8.8481	10.081	11.06	0.92002	-1.8818	0.04211	2.5583	1.2847
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 18.0 (ns))

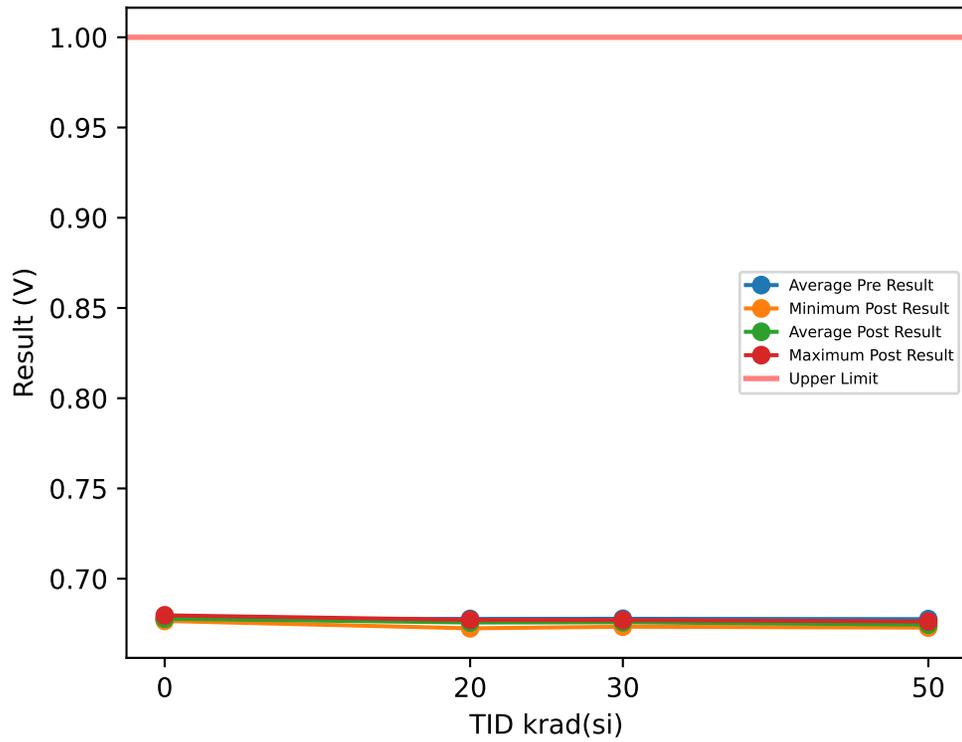| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	11.05	11.396	0.3465
22	20	HDR BIAS	11.339	11.769	0.4305
23	20	HDR BIAS	11.273	11.414	0.1413
24	20	HDR BIAS	11.157	11.433	0.2759
25	20	HDR BIAS	11.242	11.4	0.158
26	20	HDR UNBIAS	11.329	11.62	0.2918
27	20	HDR UNBIAS	11.062	11.405	0.3432
28	20	HDR UNBIAS	11.341	11.671	0.3304
29	20	HDR UNBIAS	11.312	11.418	0.106
30	20	HDR UNBIAS	11.069	11.553	0.4842
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
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)
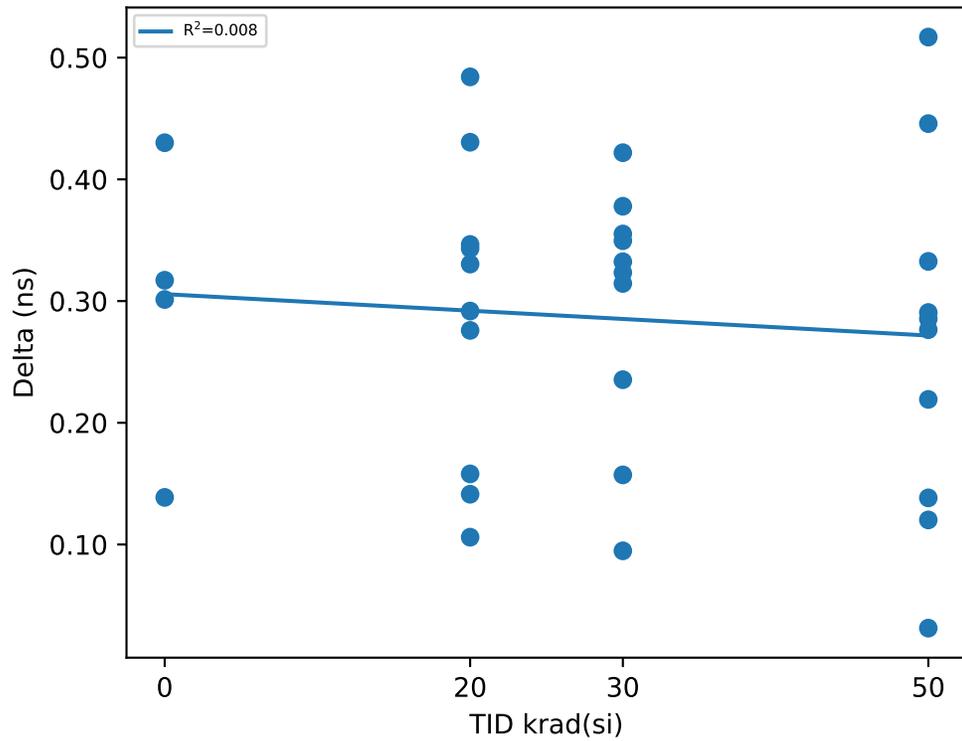
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	11.022	11.172	11.392	0.18011	11.339	11.468	11.546	0.094452	0.1387	0.2968	0.4301	0.12
20	11.05	11.217	11.341	0.12153	11.396	11.508	11.769	0.1362	0.106	0.29078	0.4842	0.12414
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 1.0 (V))

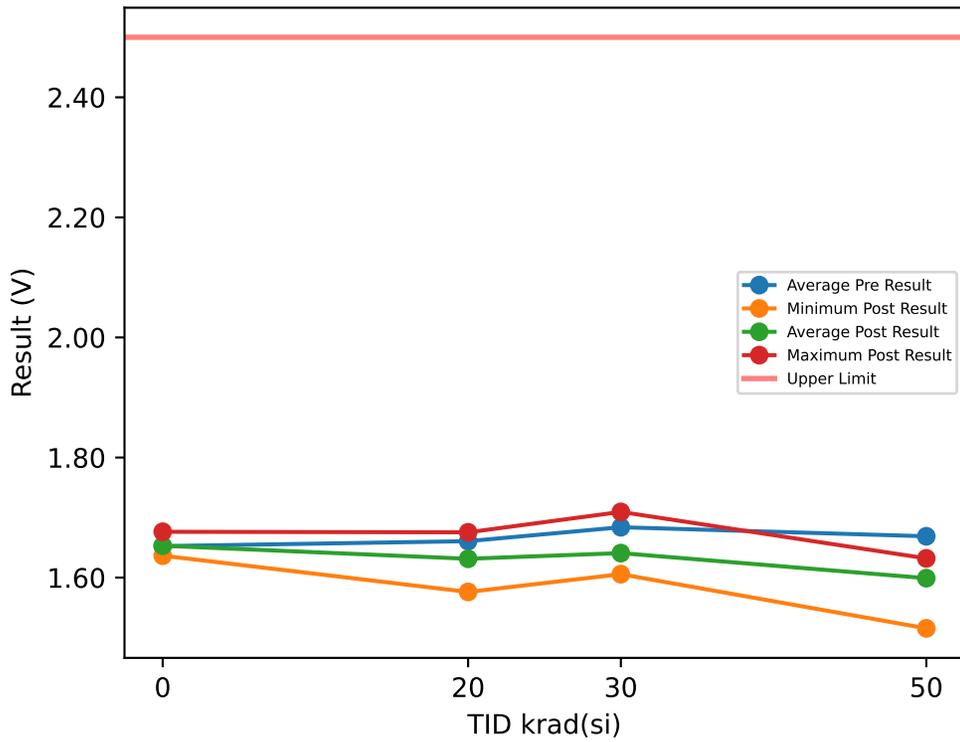| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.6792	0.677	-0.0022
22	20	HDR BIAS	0.6779	0.6755	-0.0024
23	20	HDR BIAS	0.6789	0.6771	-0.0018
24	20	HDR BIAS	0.6789	0.6766	-0.0023
25	20	HDR BIAS	0.6741	0.6725	-0.0016
26	20	HDR UNBIAS	0.6784	0.6762	-0.0022
27	20	HDR UNBIAS	0.6791	0.6772	-0.0019
28	20	HDR UNBIAS	0.6764	0.6751	-0.0013
29	20	HDR UNBIAS	0.6754	0.6738	-0.0016
30	20	HDR UNBIAS	0.6788	0.6763	-0.0025
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
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)
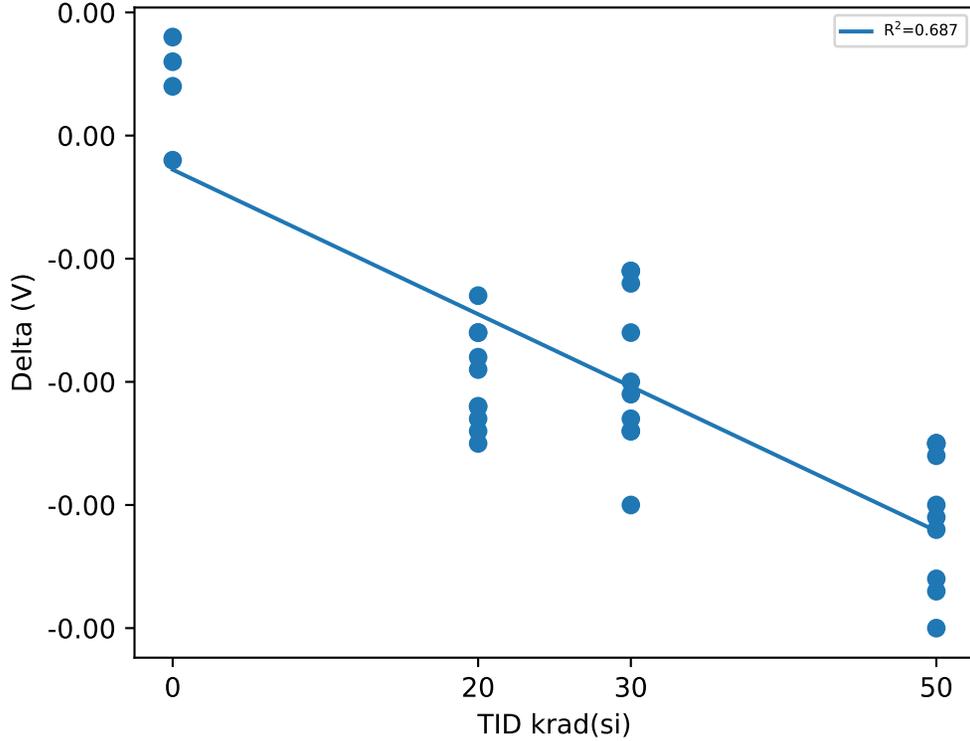
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.676	0.67748	0.6789	0.0013937	0.6766	0.67788	0.6797	0.0013937	-0.0002	0.0004	0.0008	0.00043205
20	0.6741	0.67771	0.6792	0.0017879	0.6725	0.67573	0.6772	0.0015478	-0.0025	-0.00198	-0.0013	0.00039944
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 2.5 (V))

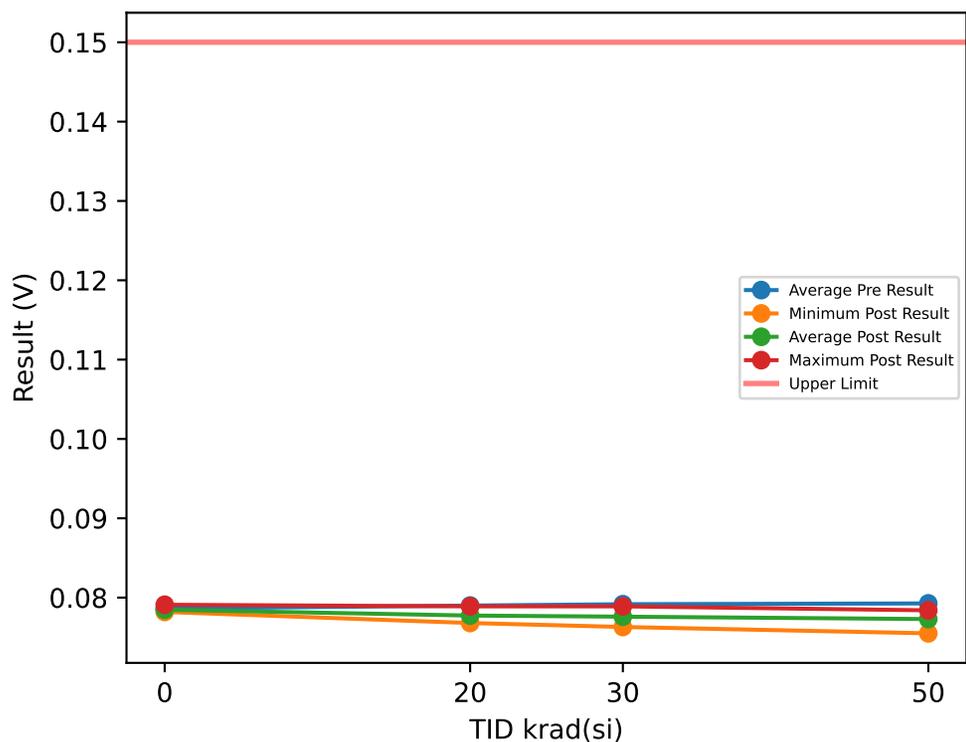| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	1.6959	1.6646	-0.0313
22	20	HDR BIAS	1.6973	1.6683	-0.029
23	20	HDR BIAS	1.6249	1.5966	-0.0283
24	20	HDR BIAS	1.6746	1.642	-0.0326
25	20	HDR BIAS	1.6647	1.6355	-0.0292
26	20	HDR UNBIAS	1.7037	1.6754	-0.0283
27	20	HDR UNBIAS	1.6131	1.5852	-0.0279
28	20	HDR UNBIAS	1.6727	1.6442	-0.0285
29	20	HDR UNBIAS	1.654	1.6255	-0.0285
30	20	HDR UNBIAS	1.6058	1.5761	-0.0297
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
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)
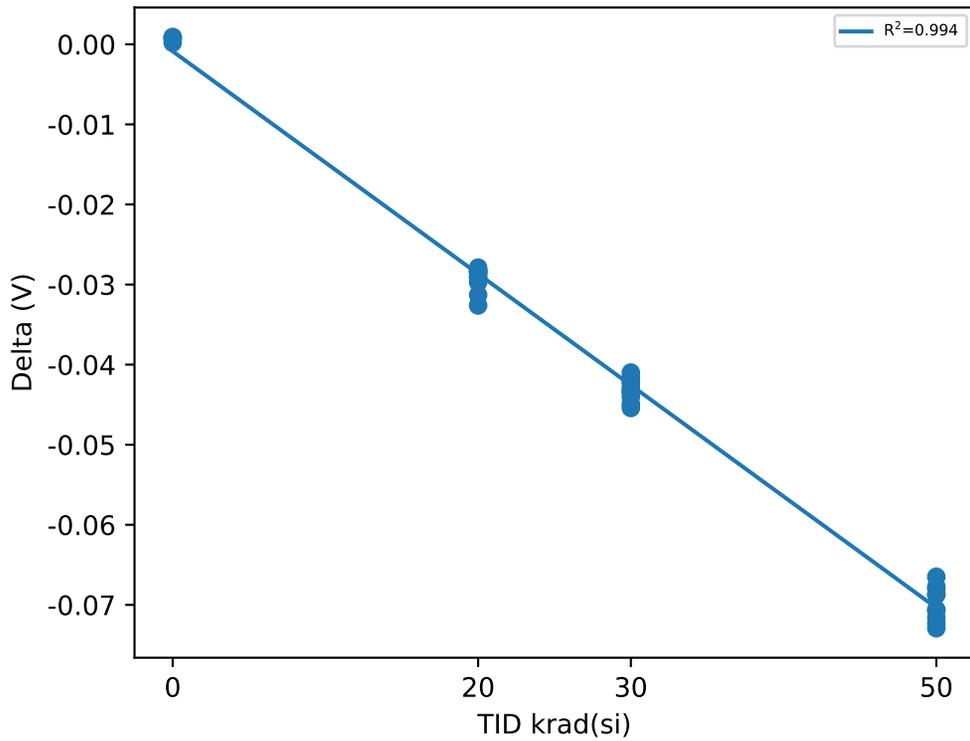
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.6358	1.6524	1.6754	0.017602	1.6365	1.6531	1.6763	0.017797	0.0002	0.00065	0.0009	0.00031091
20	1.6058	1.6607	1.7037	0.03557	1.5761	1.6313	1.6754	0.035168	-0.0326	-0.02933	-0.0279	0.0015048
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.15 (V))

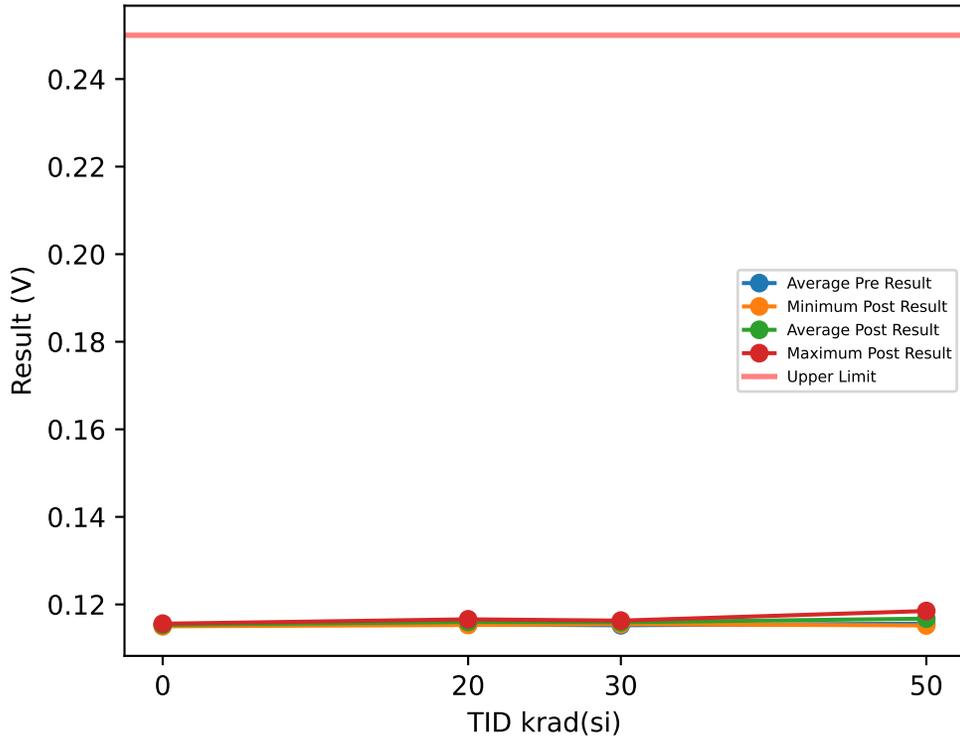| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.0786	0.0768	-0.0018
22	20	HDR BIAS	0.0796	0.0779	-0.0017
23	20	HDR BIAS	0.0789	0.0772	-0.0017
24	20	HDR BIAS	0.079	0.0773	-0.0017
25	20	HDR BIAS	0.0801	0.0777	-0.0024
26	20	HDR UNBIAS	0.0786	0.078	-0.0006
27	20	HDR UNBIAS	0.0786	0.0779	-0.0007
28	20	HDR UNBIAS	0.0798	0.0789	-0.0009
29	20	HDR UNBIAS	0.0784	0.0778	-0.0006
30	20	HDR UNBIAS	0.0784	0.0779	-0.0005
31	30	HDR BIAS	0.079	0.0765	-0.0025
32	30	HDR BIAS	0.0783	0.0763	-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
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)
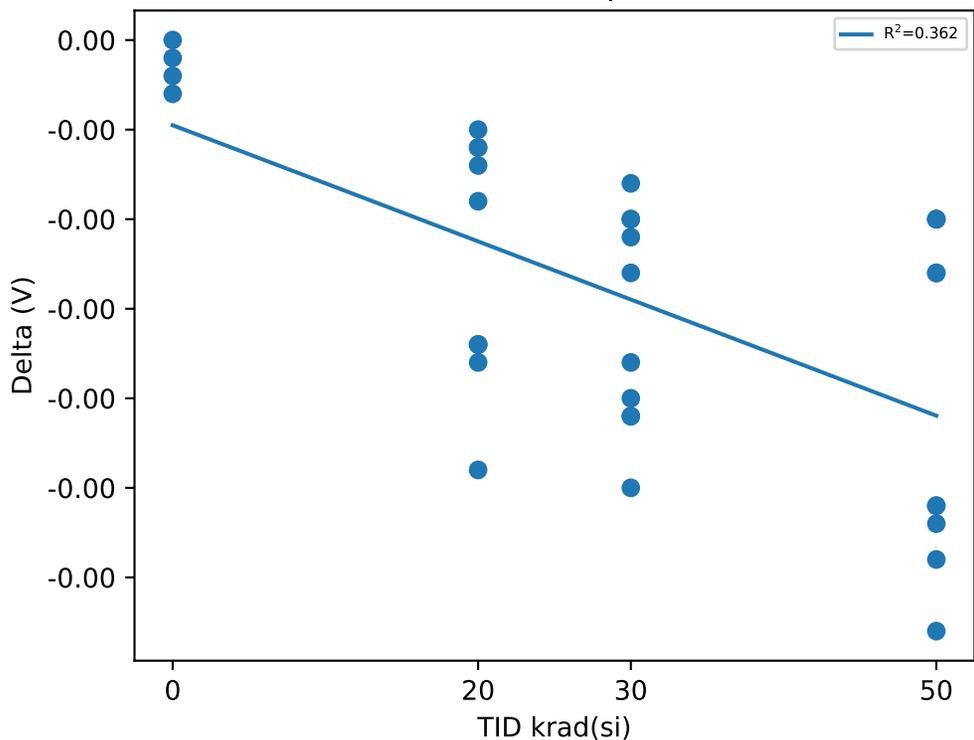
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0783	0.078625	0.0793	0.00045735	0.0782	0.078475	0.0791	0.0004272	-0.0003	-0.00015	0	0.0001291
20	0.0784	0.079	0.0801	0.00061644	0.0768	0.07774	0.0789	0.00056411	-0.0024	-0.00126	-0.0005	0.00067198
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.25 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1152	0.116	0.0008
22	20	HDR BIAS	0.1151	0.1156	0.0005
23	20	HDR BIAS	0.1157	0.1165	0.0008
24	20	HDR BIAS	0.1146	0.1153	0.0007
25	20	HDR BIAS	0.1157	0.1161	0.0004
26	20	HDR UNBIAS	0.1159	0.1166	0.0007
27	20	HDR UNBIAS	0.1154	0.1159	0.0005
28	20	HDR UNBIAS	0.1156	0.1159	0.0003
29	20	HDR UNBIAS	0.1155	0.1159	0.0004
30	20	HDR UNBIAS	0.1155	0.1162	0.0007
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
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)
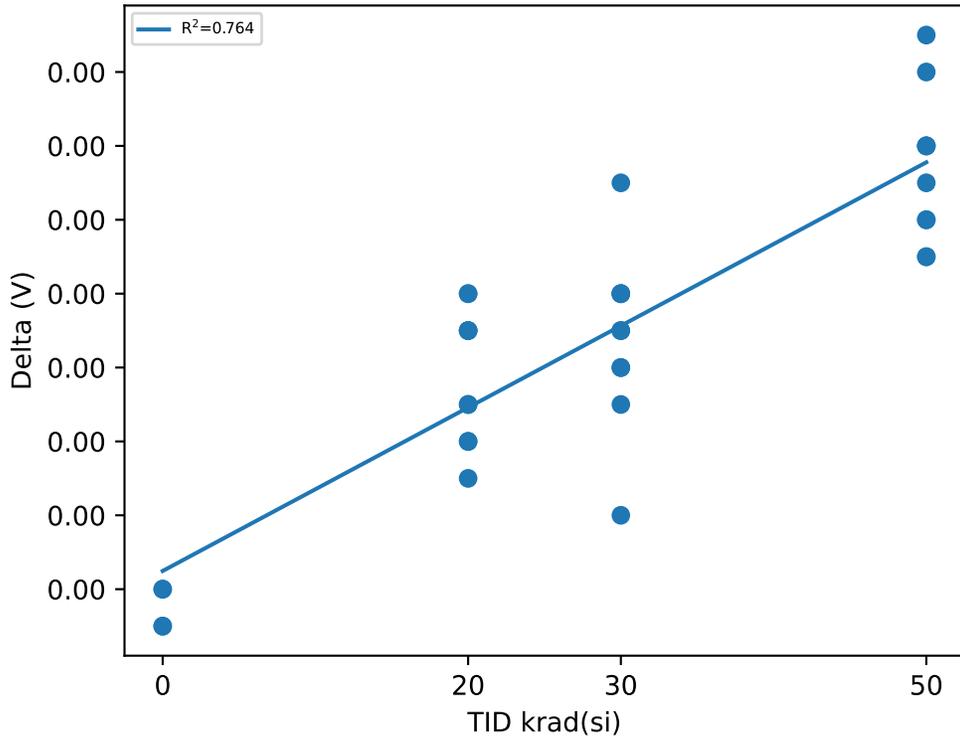
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1151	0.11538	0.1156	0.00022174	0.115	0.11532	0.1156	0.00027538	-0.0001	-5e-05	0	5.7735e-05
20	0.1146	0.11542	0.1159	0.00037357	0.1153	0.116	0.1166	0.00038586	0.0003	0.00058	0.0008	0.00018135
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 18.0 (ns))

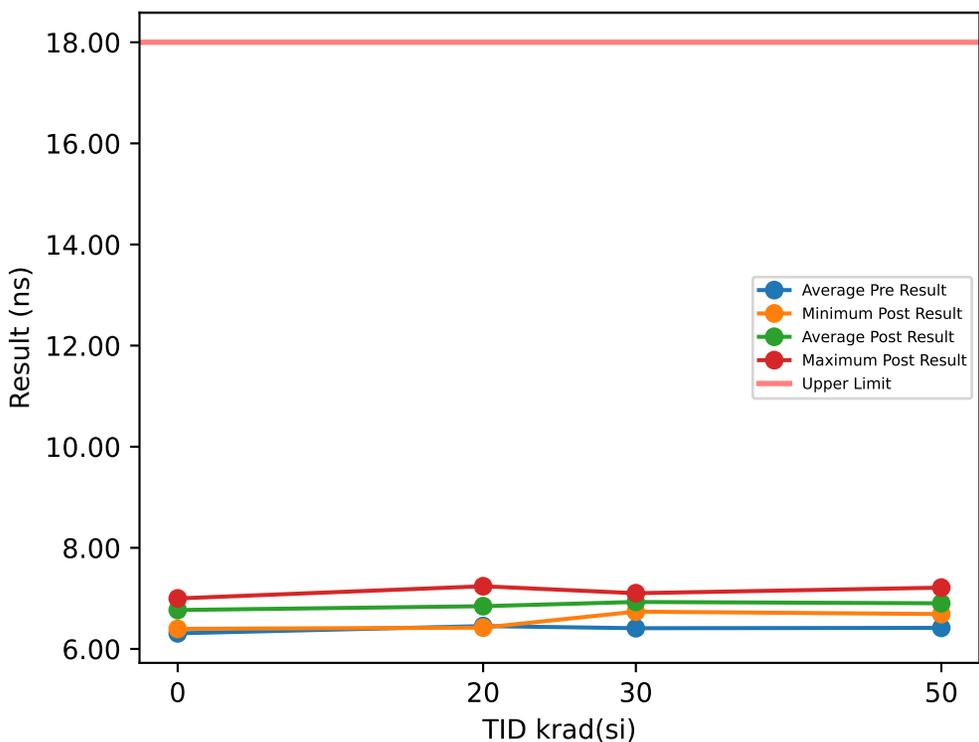| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	6.4538	6.6061	0.1523
22	20	HDR BIAS	6.5761	6.9077	0.3316
23	20	HDR BIAS	6.3409	7.24	0.8991
24	20	HDR BIAS	6.4229	6.7936	0.3707
25	20	HDR BIAS	6.5532	6.7247	0.1715
26	20	HDR UNBIAS	6.1798	6.893	0.7132
27	20	HDR UNBIAS	6.5446	7.123	0.5784
28	20	HDR UNBIAS	6.5743	6.8442	0.2699
29	20	HDR UNBIAS	6.2609	6.422	0.1611
30	20	HDR UNBIAS	6.6166	6.9004	0.2838
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
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)
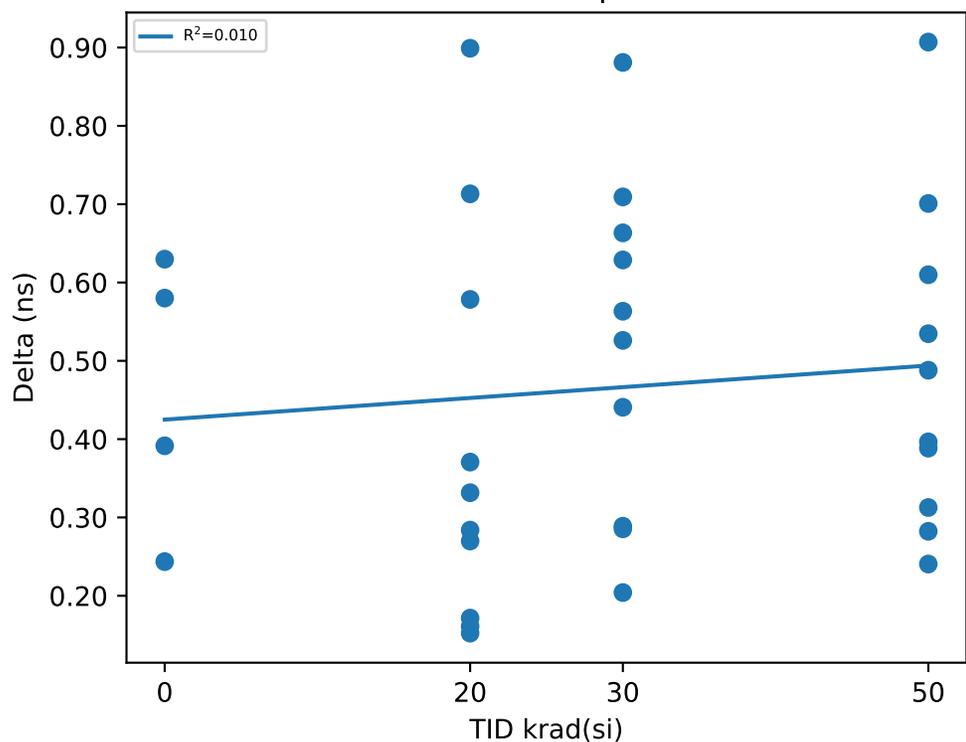
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.1534	6.3087	6.4186	0.11558	6.397	6.7699	6.9989	0.26068	0.2436	0.46125	0.6298	0.17774
20	6.1798	6.4523	6.6166	0.1491	6.422	6.8455	7.24	0.23469	0.1523	0.39316	0.8991	0.25499
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
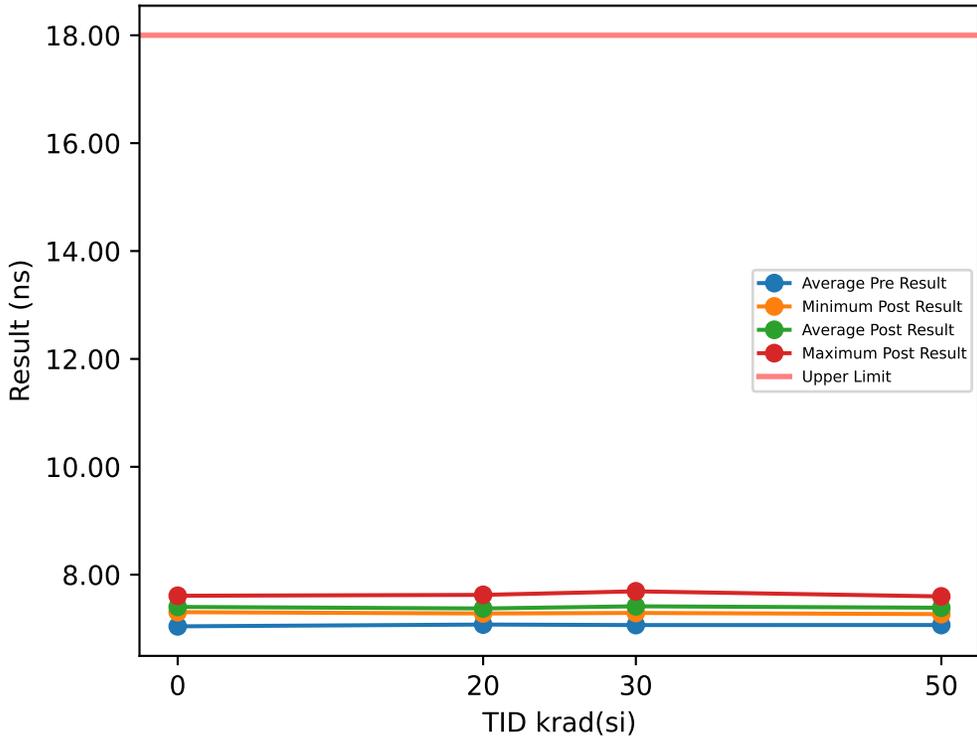
Device Test: 24.18 TIMING|OUT_FALL/OUTH/8/8/0/1000/4.5/500kHz//@OUT_FALL_8V

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 18.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	7.2157	7.3279	0.1122
22	20	HDR BIAS	6.989	7.3478	0.3588
23	20	HDR BIAS	6.9775	7.3468	0.3693
24	20	HDR BIAS	7.2015	7.5523	0.3508
25	20	HDR BIAS	7.0177	7.2809	0.2632
26	20	HDR UNBIAS	7.0378	7.3315	0.2937
27	20	HDR UNBIAS	7.152	7.3422	0.1902
28	20	HDR UNBIAS	7.0427	7.6259	0.5832
29	20	HDR UNBIAS	6.9439	7.2812	0.3373
30	20	HDR UNBIAS	7.1808	7.303	0.1222
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
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)
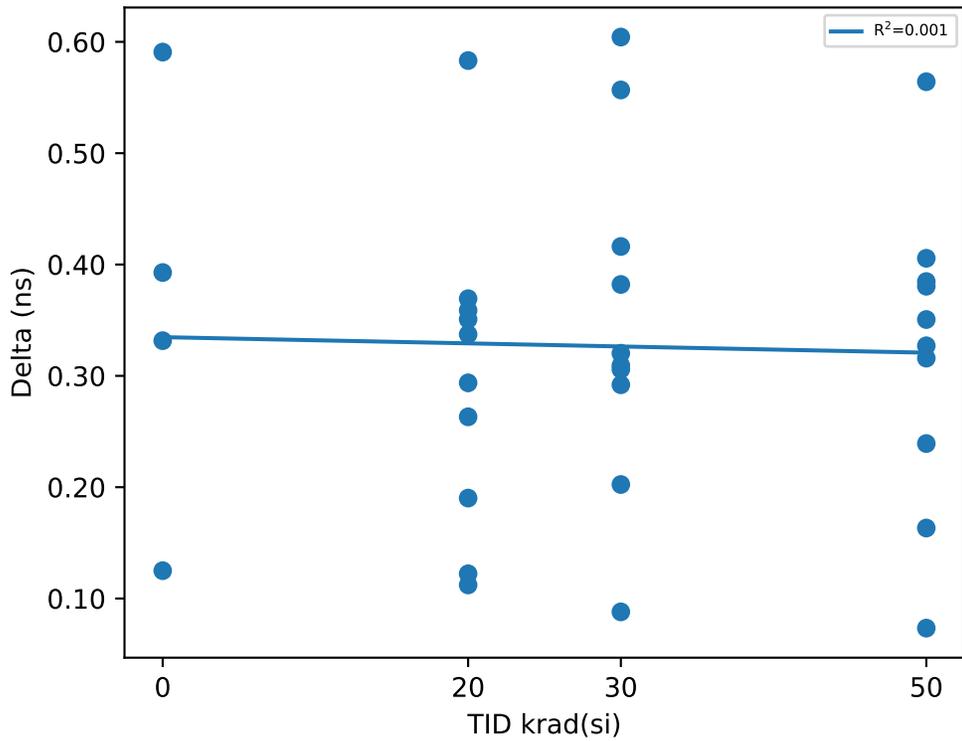
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.9525	7.0428	7.1803	0.096911	7.3053	7.4028	7.6093	0.13915	0.125	0.36005	0.5908	0.19181
20	6.9439	7.0759	7.2157	0.1015	7.2809	7.3739	7.6259	0.11735	0.1122	0.29809	0.5832	0.13854
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.15 (V))

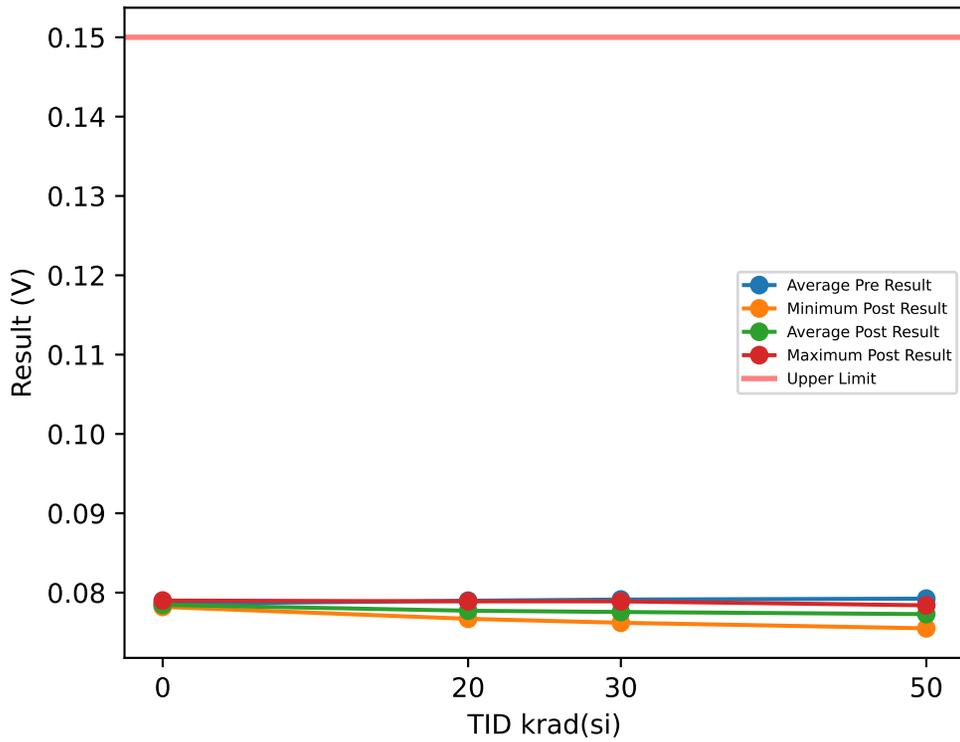| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.0786	0.0767	-0.0019
22	20	HDR BIAS	0.0795	0.0779	-0.0016
23	20	HDR BIAS	0.0789	0.0772	-0.0017
24	20	HDR BIAS	0.079	0.0773	-0.0017
25	20	HDR BIAS	0.0801	0.0777	-0.0024
26	20	HDR UNBIAS	0.0787	0.078	-0.0007
27	20	HDR UNBIAS	0.0785	0.0778	-0.0007
28	20	HDR UNBIAS	0.0797	0.0789	-0.0008
29	20	HDR UNBIAS	0.0784	0.0778	-0.0006
30	20	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	0.0787	-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
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
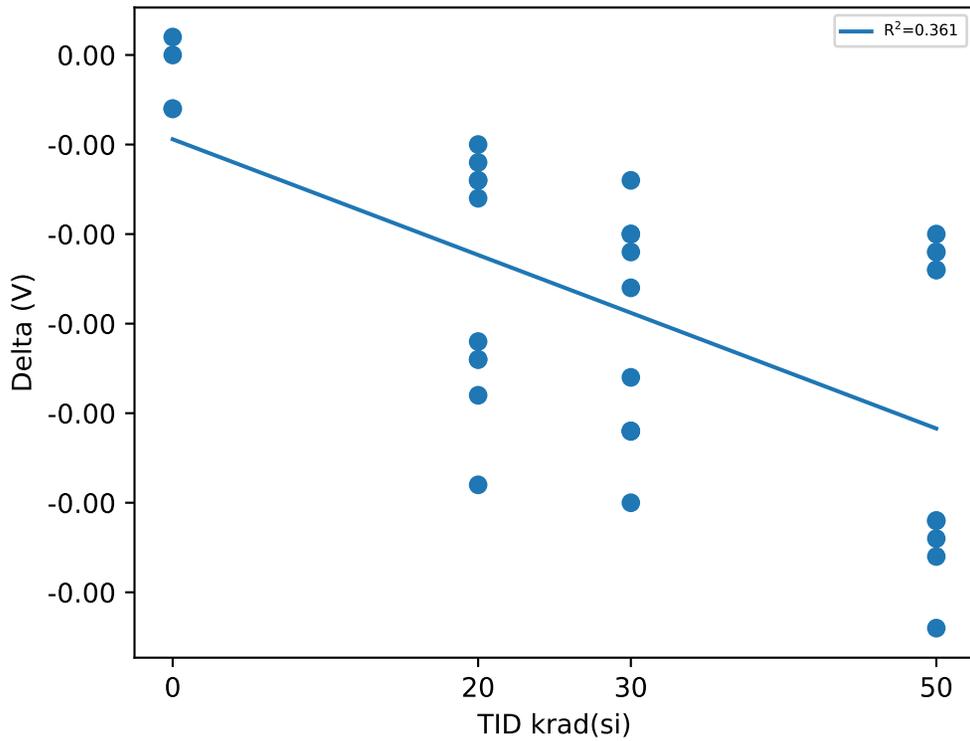
Test Statistics (V)

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
20	0.0784	0.07898	0.0801	0.00059404	0.0767	0.07772	0.0789	0.0005808	-0.0024	-0.00126	-0.0005	0.00067198
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.25 (V))

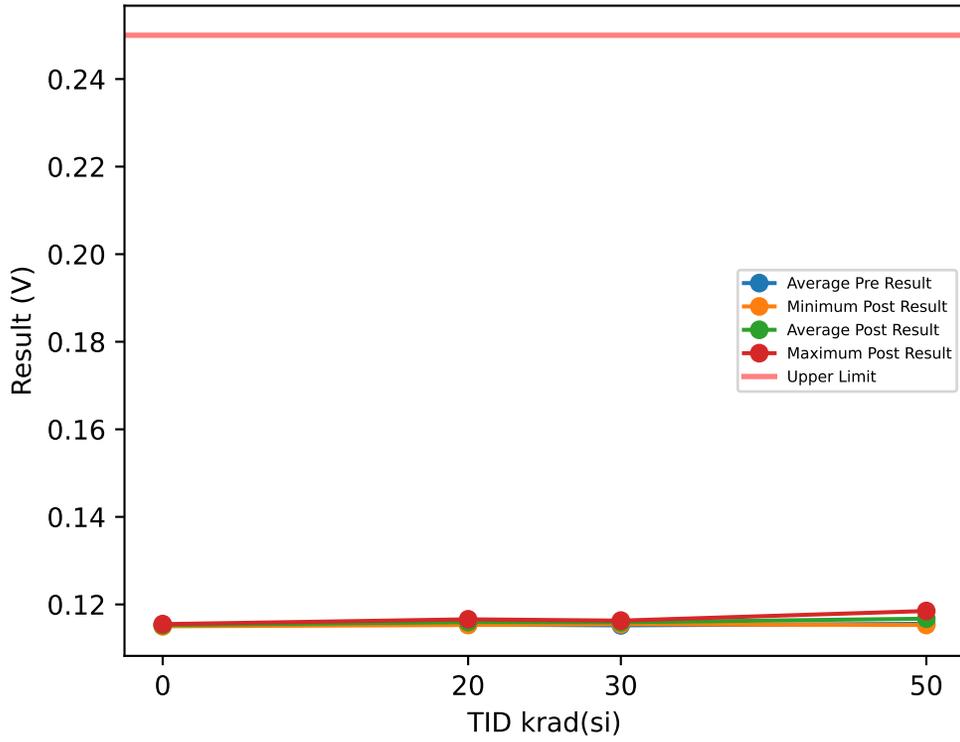| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1152	0.116	0.0008
22	20	HDR BIAS	0.1151	0.1156	0.0005
23	20	HDR BIAS	0.1157	0.1164	0.0007
24	20	HDR BIAS	0.1146	0.1153	0.0007
25	20	HDR BIAS	0.1158	0.1161	0.0003
26	20	HDR UNBIAS	0.116	0.1166	0.0006
27	20	HDR UNBIAS	0.1152	0.1159	0.0007
28	20	HDR UNBIAS	0.1156	0.1159	0.0003
29	20	HDR UNBIAS	0.1154	0.1158	0.0004
30	20	HDR UNBIAS	0.1154	0.1161	0.0007
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
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)
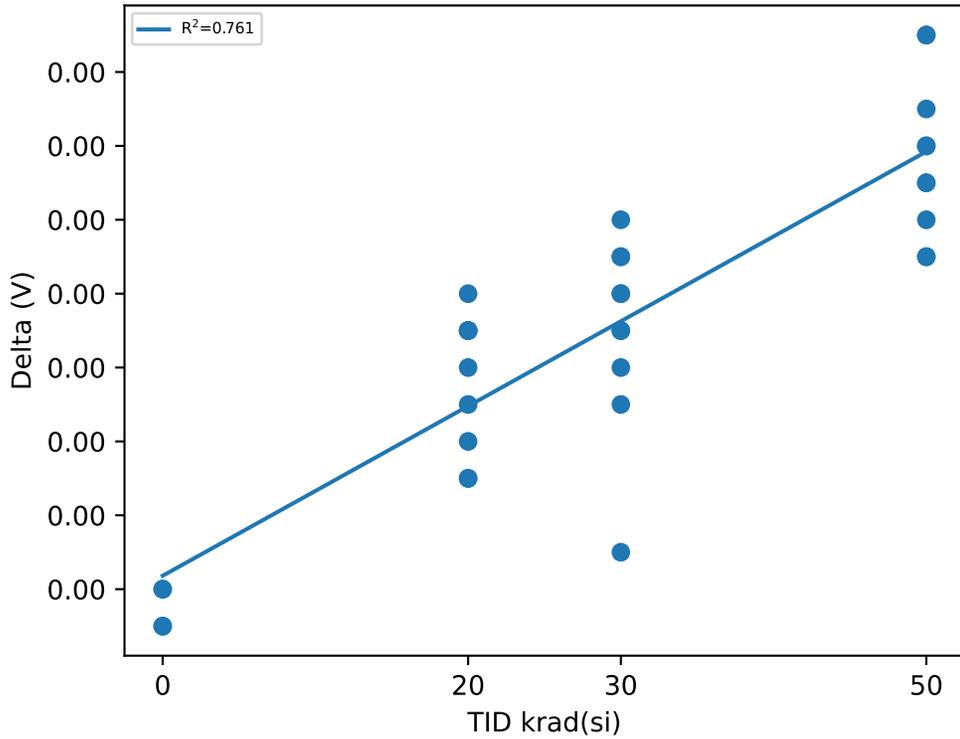
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1151	0.11532	0.1155	0.00020616	0.115	0.11528	0.1155	0.00022174	-0.0001	-5e-05	0	5.7735e-05
20	0.1146	0.1154	0.116	0.00040277	0.1153	0.11597	0.1166	0.00037133	0.0003	0.00057	0.0008	0.00018288
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
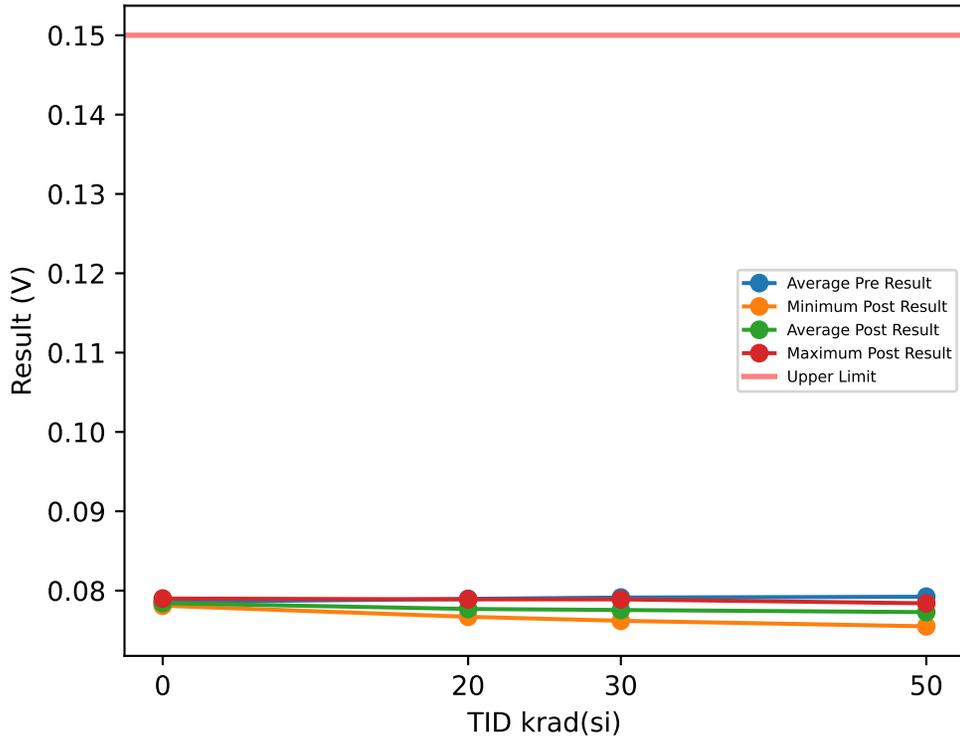
Device Test: 24.7 LEVEL|LOW_LEVEL/OUTL/14/14/0/0/5/500kHz//@OUT_VOL

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.15 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.0785	0.0767	-0.0018
22	20	HDR BIAS	0.0795	0.0779	-0.0016
23	20	HDR BIAS	0.0789	0.0772	-0.0017
24	20	HDR BIAS	0.079	0.0773	-0.0017
25	20	HDR BIAS	0.0801	0.0777	-0.0024
26	20	HDR UNBIAS	0.0786	0.0779	-0.0007
27	20	HDR UNBIAS	0.0785	0.0778	-0.0007
28	20	HDR UNBIAS	0.0797	0.0789	-0.0008
29	20	HDR UNBIAS	0.0784	0.0777	-0.0007
30	20	HDR UNBIAS	0.0784	0.0778	-0.0006
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
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
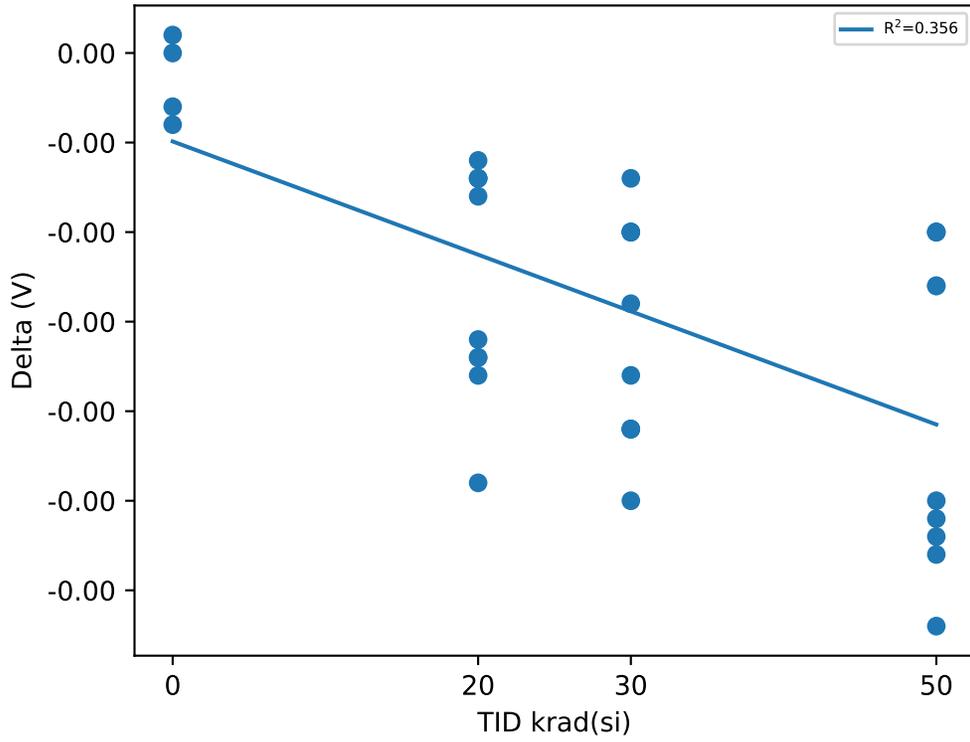
Test Statistics (V)

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
20	0.0784	0.07896	0.0801	0.00060773	0.0767	0.07769	0.0789	0.00057242	-0.0024	-0.00127	-0.0006	0.00063953
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 0.25 (V))

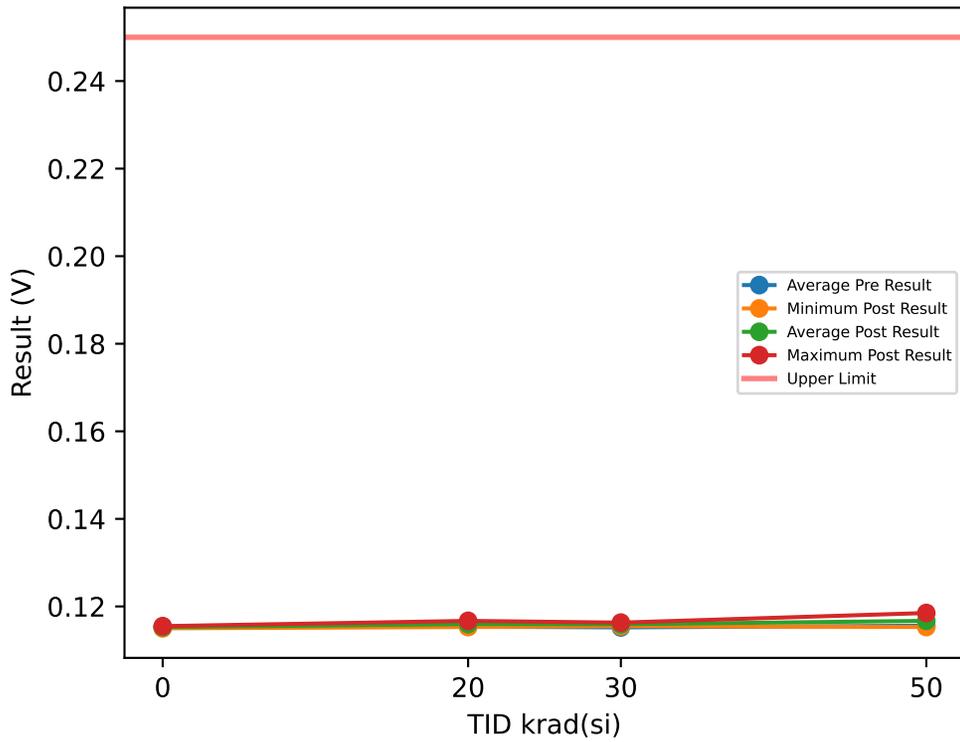| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.1152	0.116	0.0008
22	20	HDR BIAS	0.1151	0.1156	0.0005
23	20	HDR BIAS	0.1156	0.1164	0.0008
24	20	HDR BIAS	0.1146	0.1153	0.0007
25	20	HDR BIAS	0.1158	0.1162	0.0004
26	20	HDR UNBIAS	0.116	0.1167	0.0007
27	20	HDR UNBIAS	0.1152	0.1159	0.0007
28	20	HDR UNBIAS	0.1155	0.1158	0.0003
29	20	HDR UNBIAS	0.1154	0.1158	0.0004
30	20	HDR UNBIAS	0.1154	0.116	0.0006
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
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)
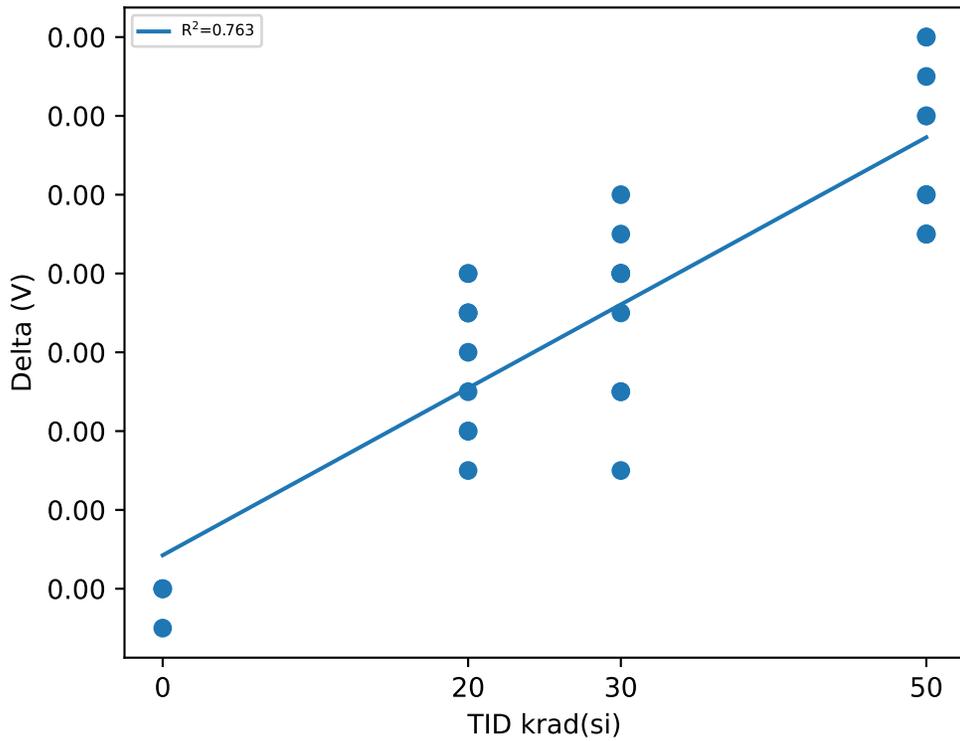
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1151	0.1153	0.1155	0.00018257	0.115	0.11528	0.1155	0.00022174	-0.0001	-2.5e-05	0	5e-05
20	0.1146	0.11538	0.116	0.00039101	0.1153	0.11597	0.1167	0.00039735	0.0003	0.00059	0.0008	0.0001792
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
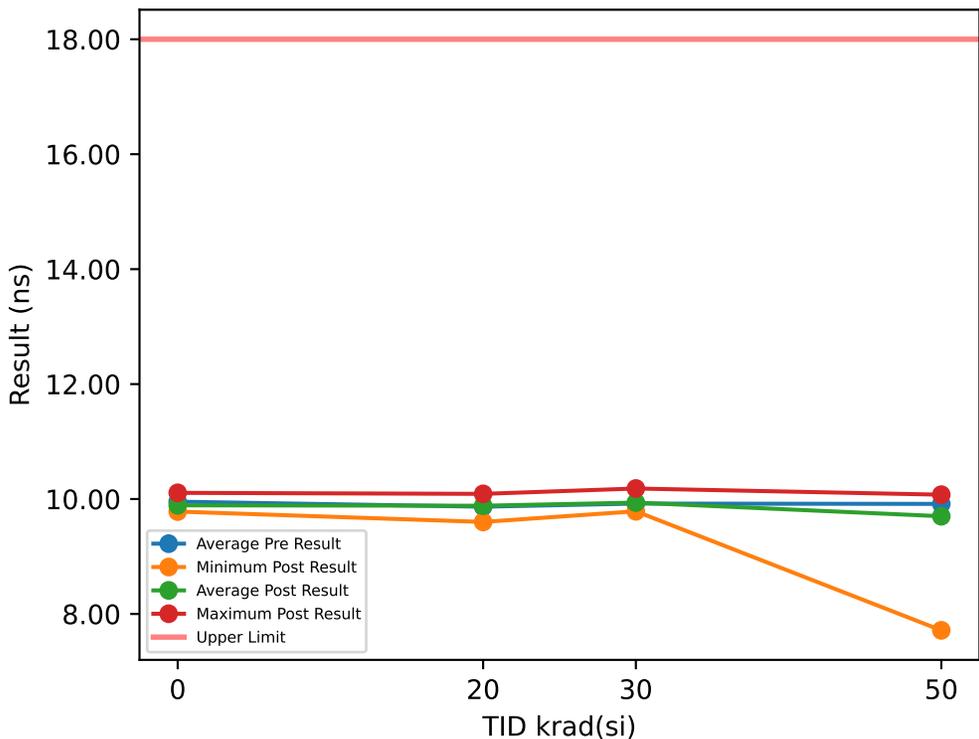
Device Test: 24.9 TIMING|OUT_RISE/OUTH/12/12/0/1000/5/500kHz//@OUT_RISE_12V

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 18.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	10.087	9.7763	-0.3111
22	20	HDR BIAS	10.142	9.7861	-0.3558
23	20	HDR BIAS	9.8727	10.087	0.2145
24	20	HDR BIAS	9.8783	9.7978	-0.0805
25	20	HDR BIAS	9.6152	9.8059	0.1907
26	20	HDR UNBIAS	9.8488	9.9055	0.0567
27	20	HDR UNBIAS	9.8799	10.09	0.2098
28	20	HDR UNBIAS	9.676	10.025	0.3489
29	20	HDR UNBIAS	9.6597	9.6012	-0.0585
30	20	HDR UNBIAS	10.005	9.9573	-0.0481
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
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)
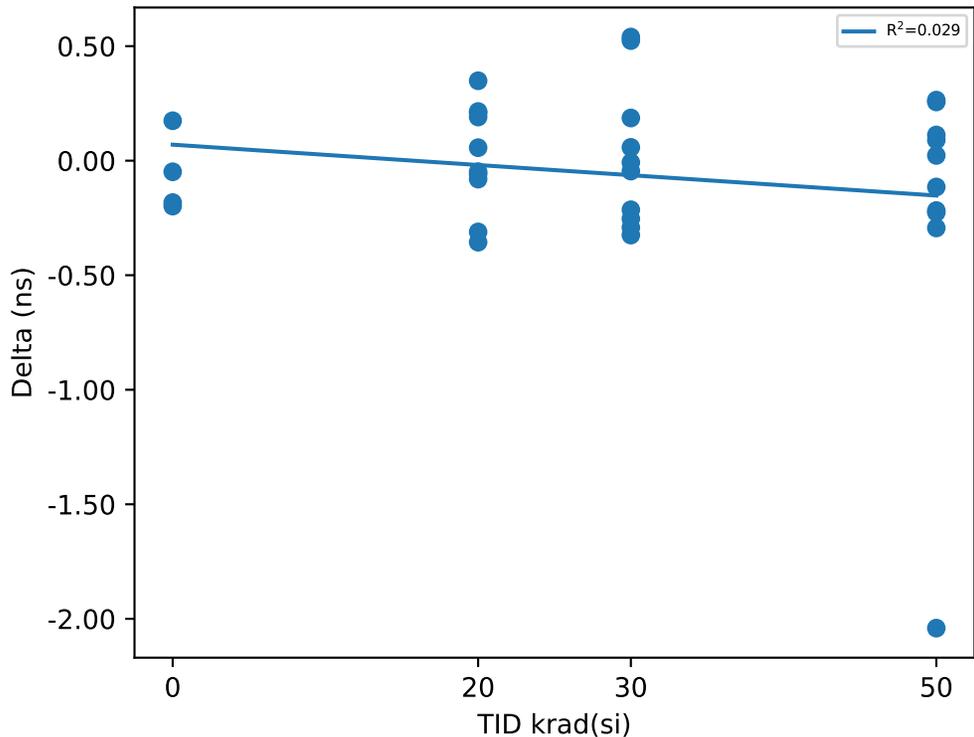
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.8305	9.954	10.063	0.097925	9.782	9.8902	10.107	0.14896	-0.1981	-0.063825	0.1743	0.17241
20	9.6152	9.8665	10.142	0.17852	9.6012	9.8832	10.09	0.15775	-0.3558	0.01666	0.3489	0.23194
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 165.0 (ns))

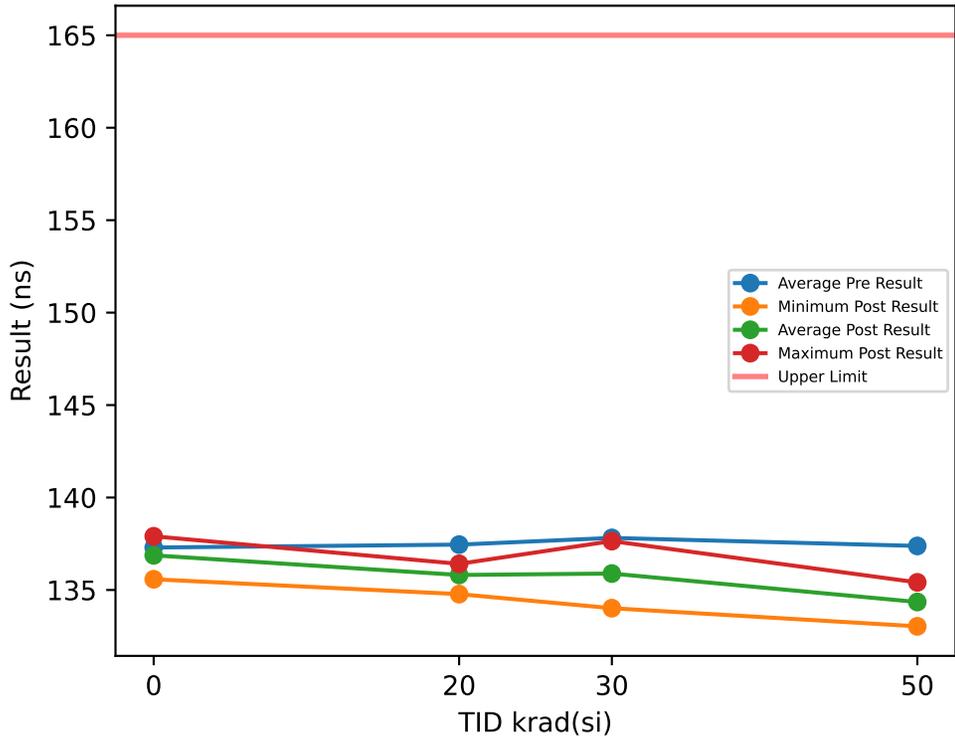| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	138.77	136.36	-2.4128
22	20	HDR BIAS	137.4	136.4	-1.0004
23	20	HDR BIAS	135.98	135.08	-0.9077
24	20	HDR BIAS	138.28	136.15	-2.128
25	20	HDR BIAS	136.66	135.19	-1.4631
26	20	HDR UNBIAS	135.64	134.78	-0.8654
27	20	HDR UNBIAS	138.02	135.76	-2.2553
28	20	HDR UNBIAS	137.78	136.32	-1.4562
29	20	HDR UNBIAS	137.83	136.41	-1.4159
30	20	HDR UNBIAS	138.18	135.67	-2.5065
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
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

Test Statistics (ns)
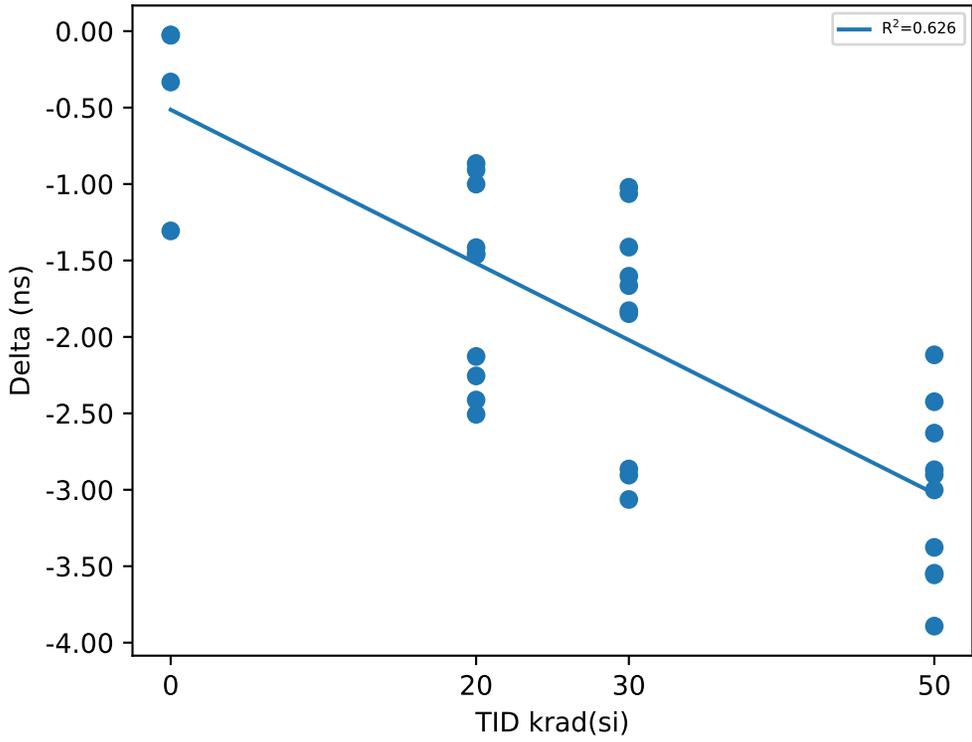
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	136.84	137.3	137.93	0.52487	135.58	136.87	137.9	0.97265	-1.3067	-0.42288	-0.0256	0.60669
20	135.64	137.45	138.77	1.0322	134.78	135.81	136.41	0.61531	-2.5065	-1.6411	-0.8654	0.63468
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 165.0 (ns))

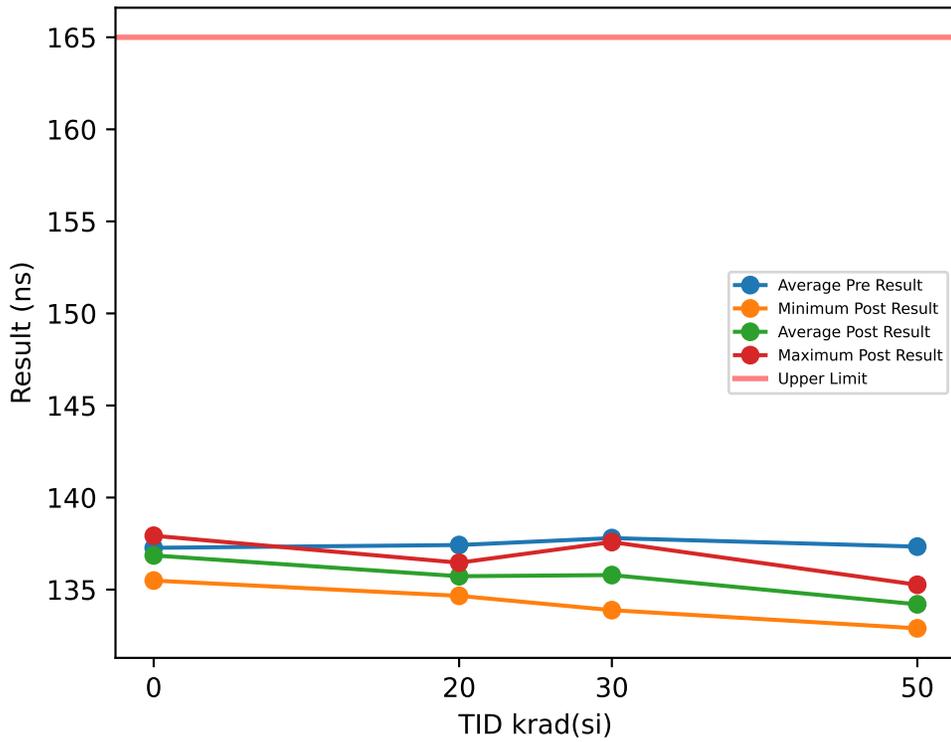| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	138.77	136.26	-2.5086
22	20	HDR BIAS	137.35	136.31	-1.0422
23	20	HDR BIAS	135.91	134.96	-0.9468
24	20	HDR BIAS	138.27	136.06	-2.2091
25	20	HDR BIAS	136.67	135.19	-1.4889
26	20	HDR UNBIAS	135.56	134.66	-0.9038
27	20	HDR UNBIAS	137.96	135.63	-2.3345
28	20	HDR UNBIAS	137.73	136.2	-1.5232
29	20	HDR UNBIAS	137.86	136.46	-1.4021
30	20	HDR UNBIAS	138.12	135.54	-2.5837
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
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)
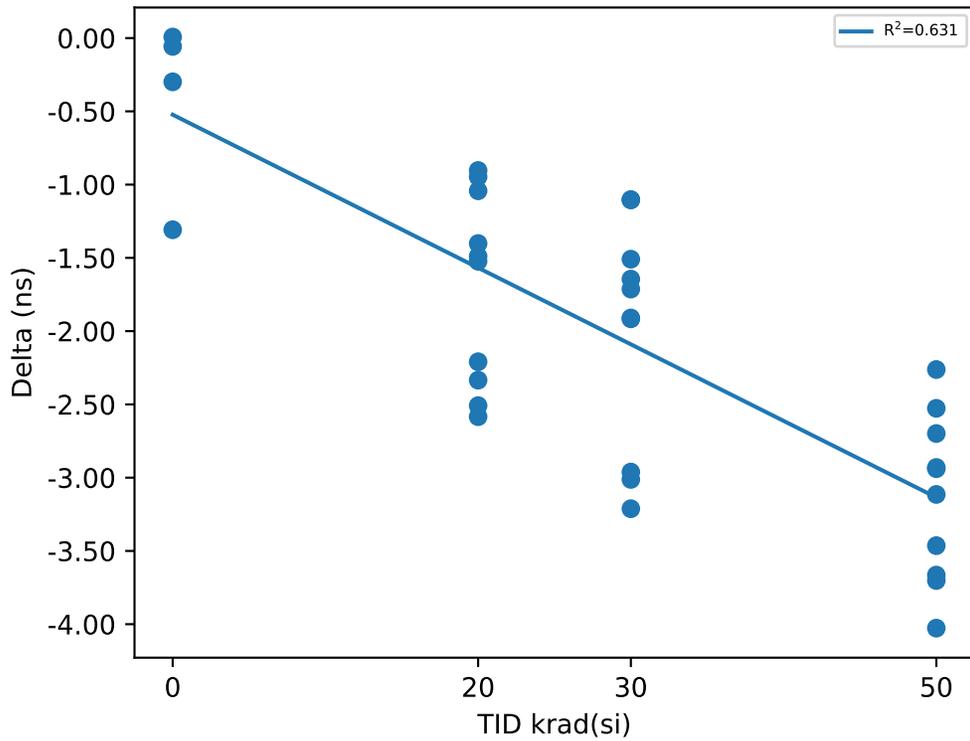
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	136.8	137.27	137.98	0.56961	135.49	136.86	137.93	1.0183	-1.3081	-0.41415	0.0069	0.61032
20	135.56	137.42	138.77	1.0493	134.66	135.73	136.46	0.62946	-2.5837	-1.6943	-0.9038	0.65783
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 70.0 (ns))

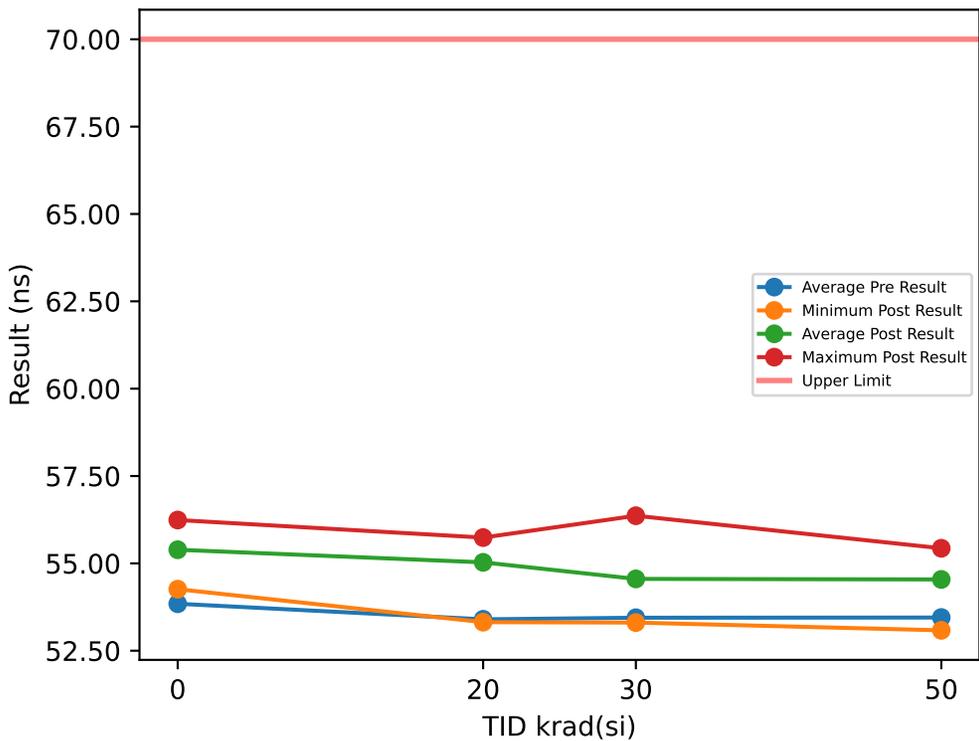| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	52.311	55.358	3.0467
22	20	HDR BIAS	53.72	55.062	1.3415
23	20	HDR BIAS	54.565	55.727	1.1614
24	20	HDR BIAS	51.892	53.317	1.4253
25	20	HDR BIAS	54.302	55.487	1.1855
26	20	HDR UNBIAS	53.889	55.156	1.2673
27	20	HDR UNBIAS	52.343	55.387	3.0442
28	20	HDR UNBIAS	54.047	53.68	-0.367
29	20	HDR UNBIAS	54.754	55.738	0.9837
30	20	HDR UNBIAS	52.165	55.376	3.2112
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
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)
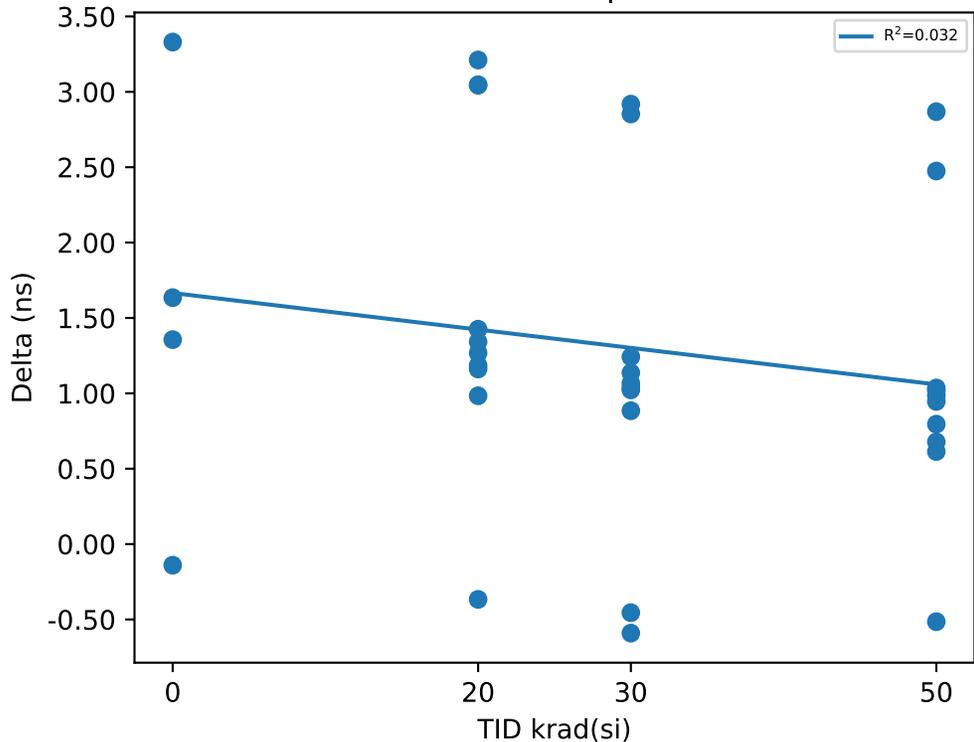
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.941	53.845	54.606	1.2722	54.261	55.39	56.241	0.8503	-0.1401	1.5452	3.3302	1.4225
20	51.892	53.399	54.754	1.0989	53.317	55.029	55.738	0.83826	-0.367	1.63	3.2112	1.1346
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

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))

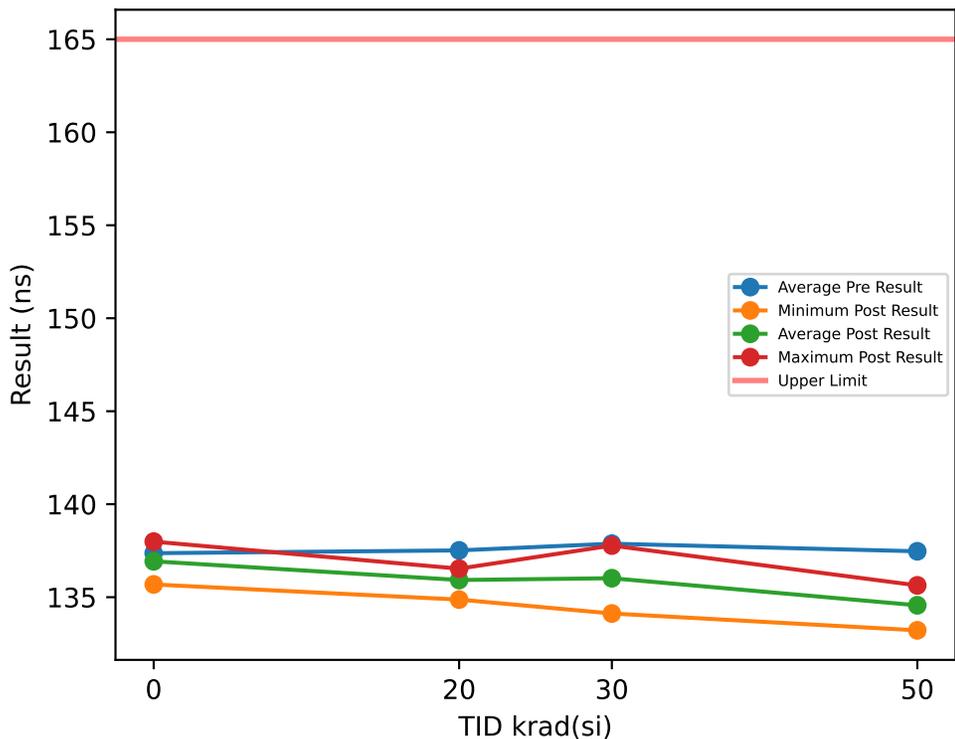| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	138.81	136.45	-2.3631
22	20	HDR BIAS	137.47	136.53	-0.9312
23	20	HDR BIAS	136.07	135.27	-0.8024
24	20	HDR BIAS	138.33	136.2	-2.1293
25	20	HDR BIAS	136.65	135.22	-1.4319
26	20	HDR UNBIAS	135.71	134.87	-0.8428
27	20	HDR UNBIAS	138.07	135.96	-2.1111
28	20	HDR UNBIAS	137.88	136.44	-1.4408
29	20	HDR UNBIAS	137.94	136.47	-1.4649
30	20	HDR UNBIAS	138.22	135.82	-2.3991
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
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)
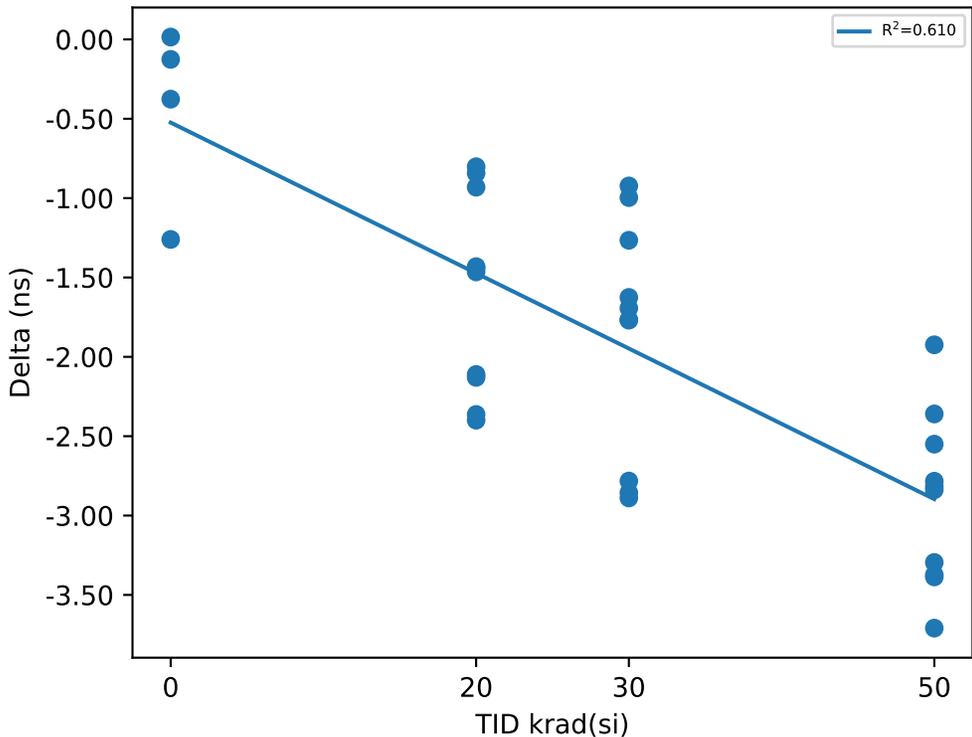
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	136.92	137.37	137.97	0.5186	135.69	136.93	137.99	0.96368	-1.2604	-0.43707	0.0146	0.57222
20	135.71	137.52	138.81	1.0299	134.87	135.92	136.53	0.60907	-2.3991	-1.5917	-0.8024	0.62274
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 70.0 (ns))

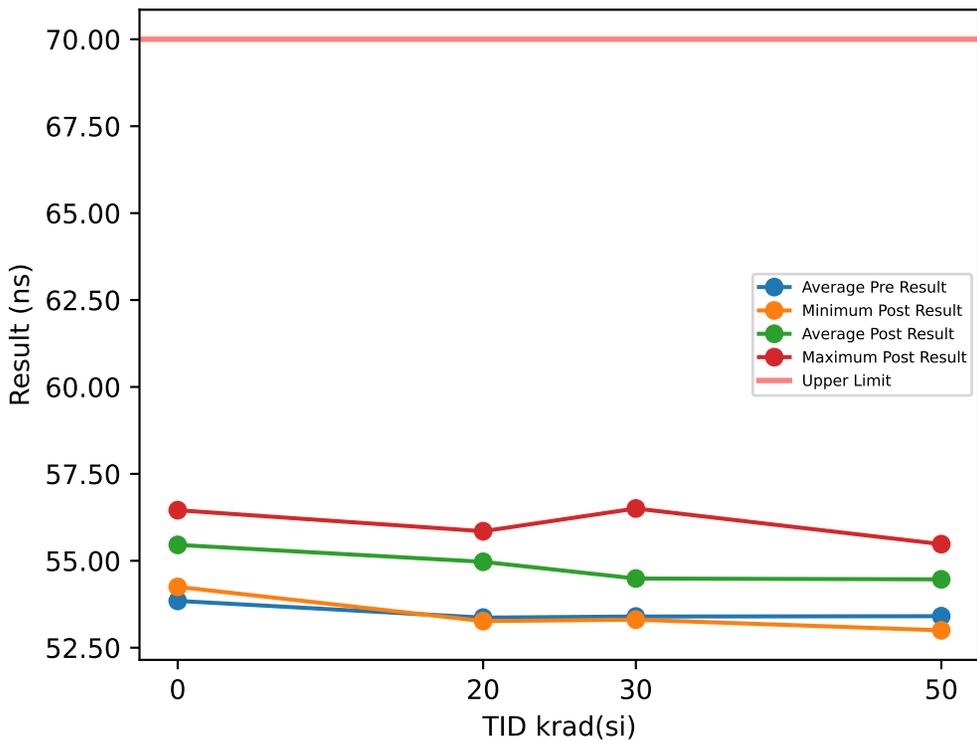| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	52.231	55.225	2.9939
22	20	HDR BIAS	53.666	54.969	1.3034
23	20	HDR BIAS	54.535	55.629	1.0934
24	20	HDR BIAS	51.857	53.266	1.4085
25	20	HDR BIAS	54.376	55.498	1.1212
26	20	HDR UNBIAS	53.732	54.981	1.2492
27	20	HDR UNBIAS	52.362	55.287	2.9251
28	20	HDR UNBIAS	53.996	53.745	-0.251
29	20	HDR UNBIAS	54.756	55.85	1.0943
30	20	HDR UNBIAS	52.144	55.26	3.1153
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
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)
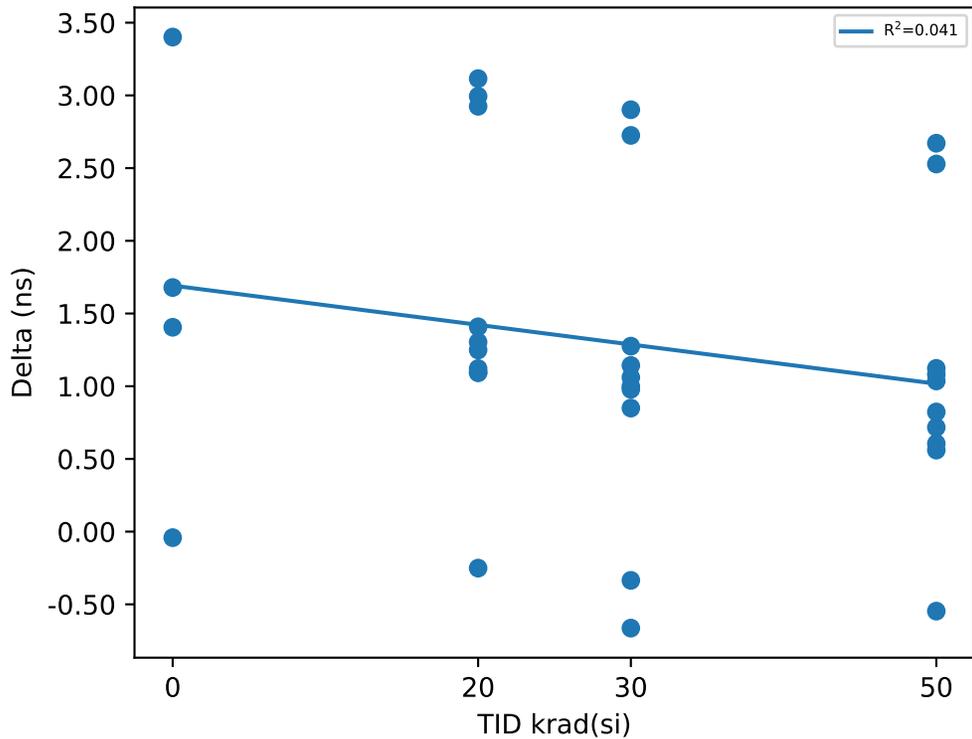
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	51.945	53.847	54.776	1.2855	54.25	55.458	56.455	0.9254	-0.0414	1.6109	3.4011	1.4121
20	51.857	53.366	54.756	1.1058	53.266	54.971	55.85	0.82598	-0.251	1.6053	3.1153	1.0755
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

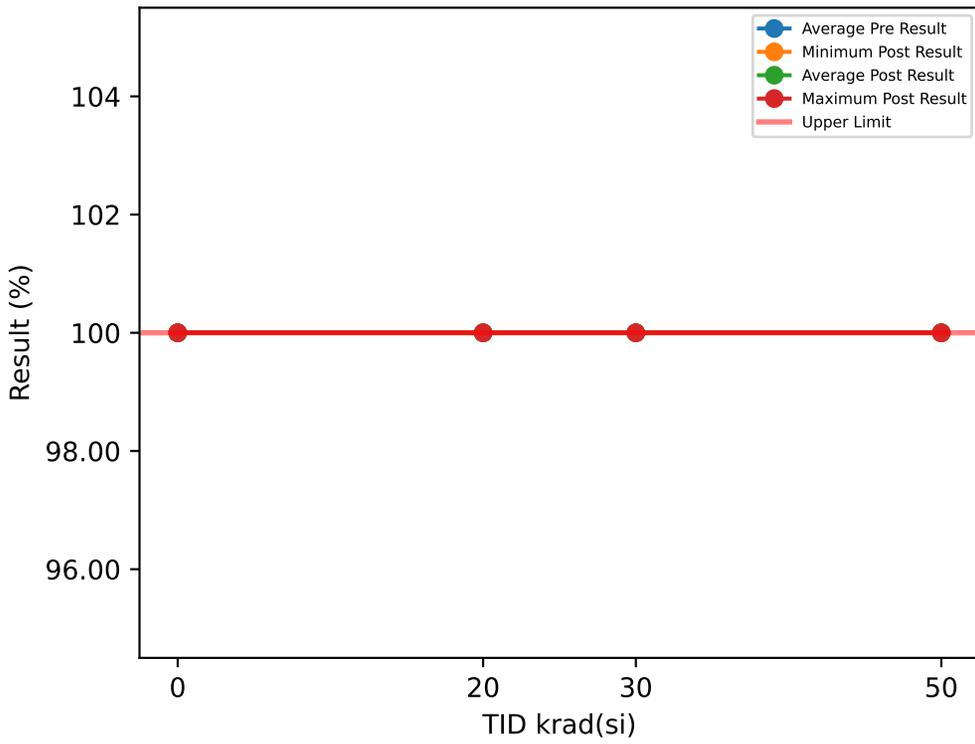| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

TID vs Post - Pre Exposure Delta

Legend: R²=1.000

Test Results (Upper Limit = 100.0 (%))

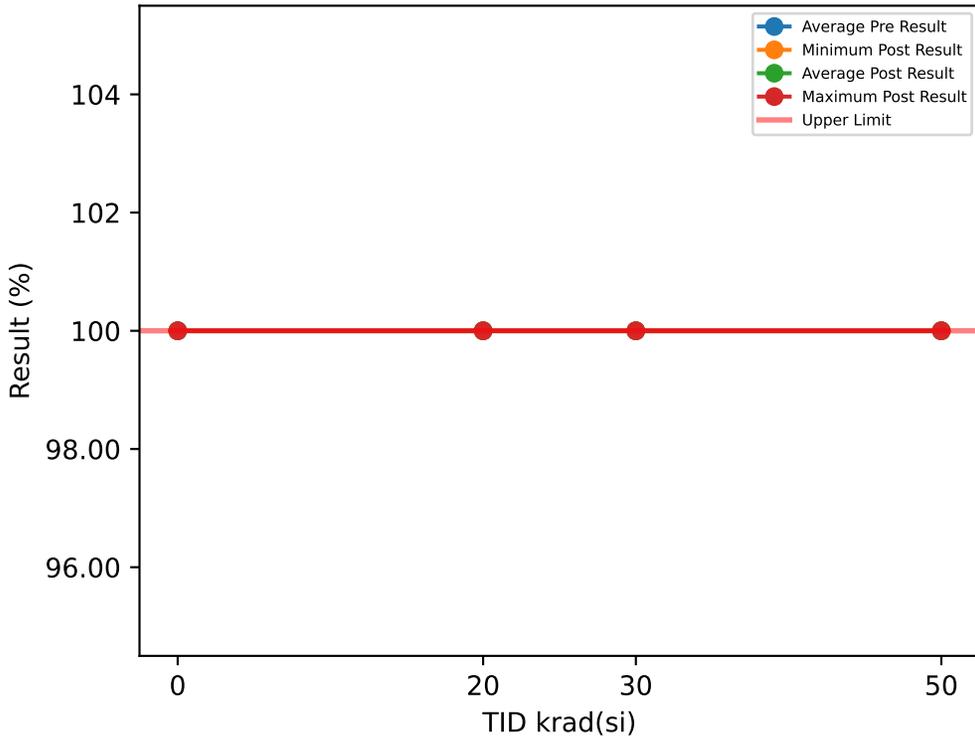| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

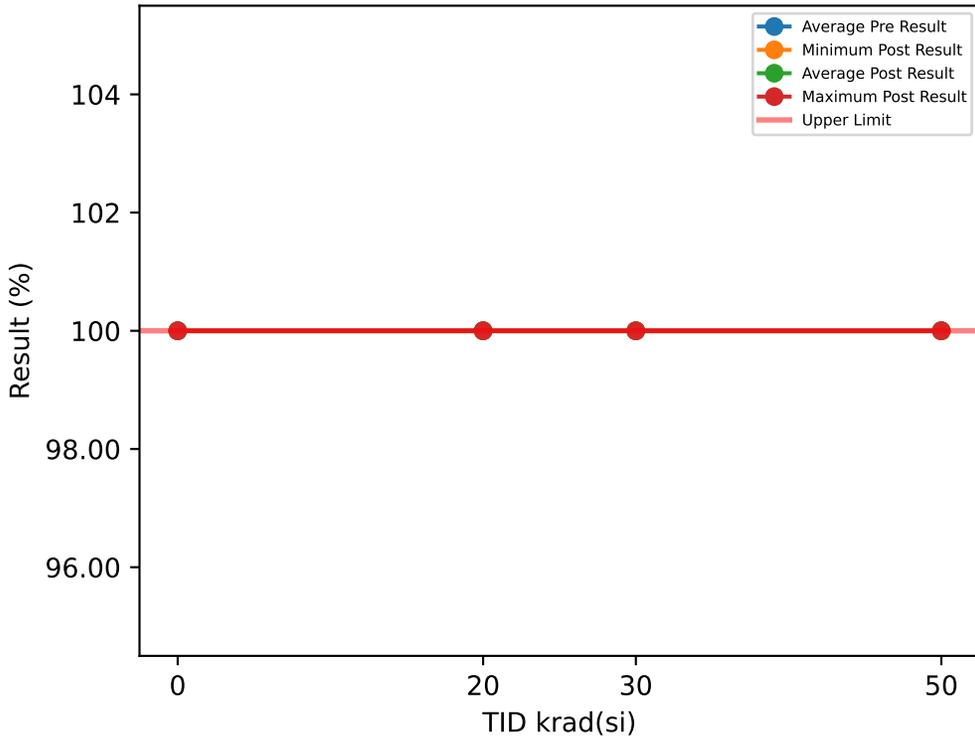| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

TID vs Post - Pre Exposure Delta

Legend: R²=1.000

Test Results (Upper Limit = 100.0 (%))

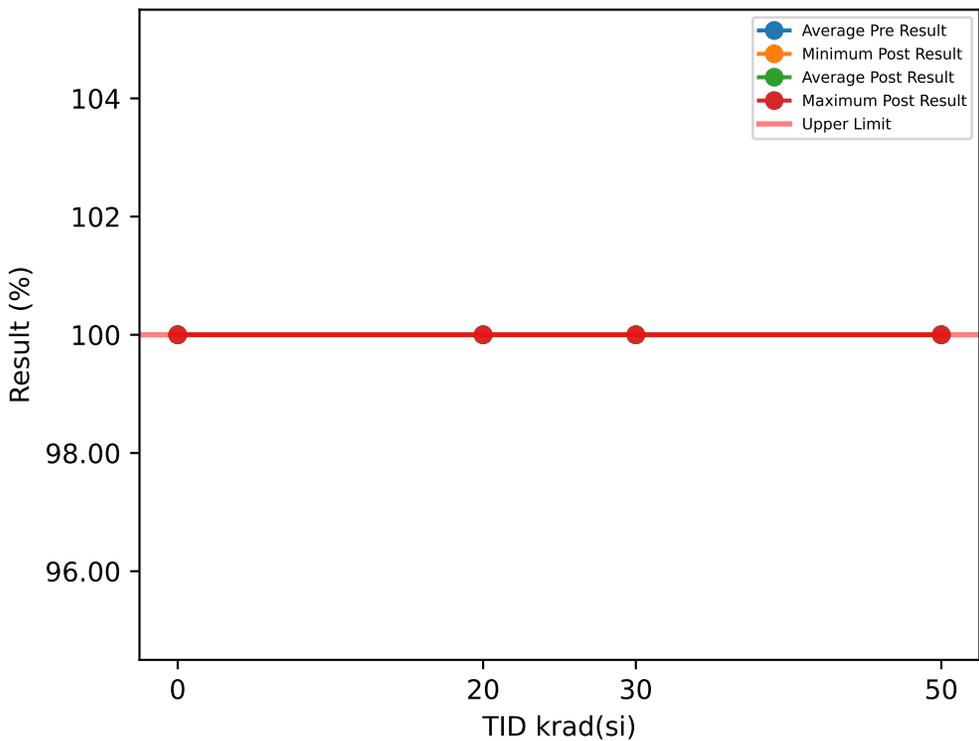| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

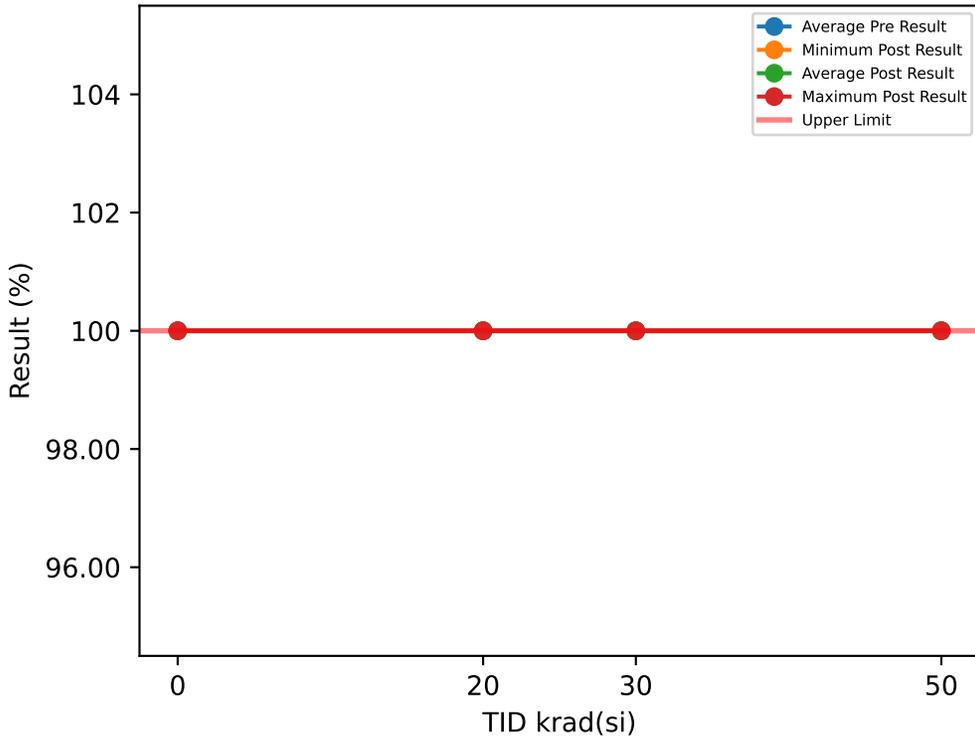| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

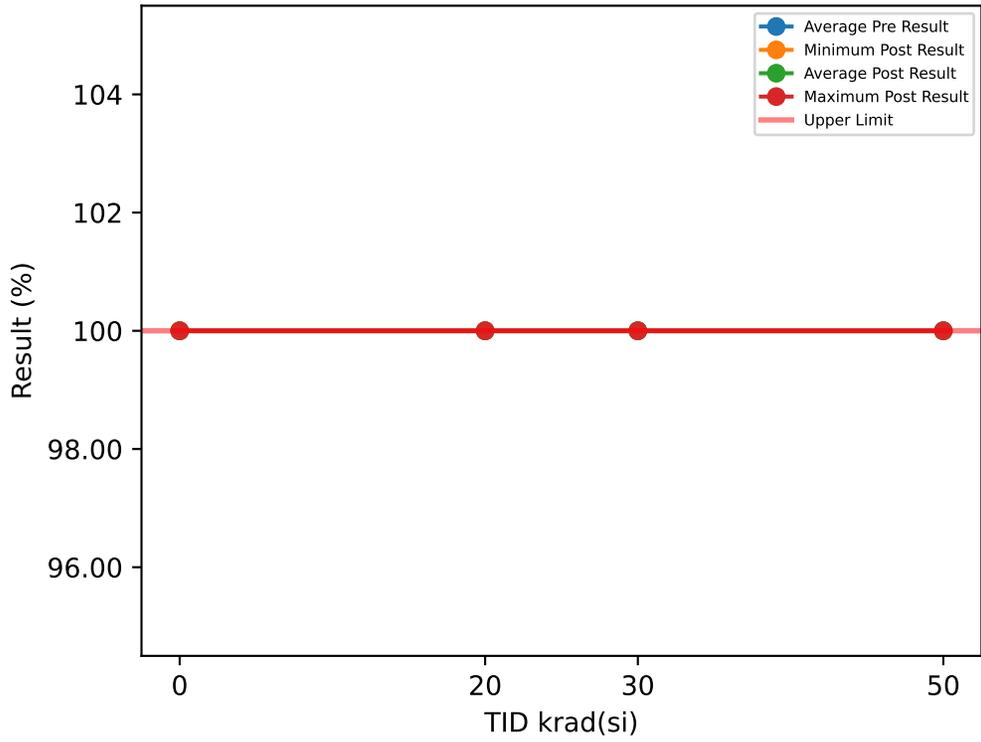| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

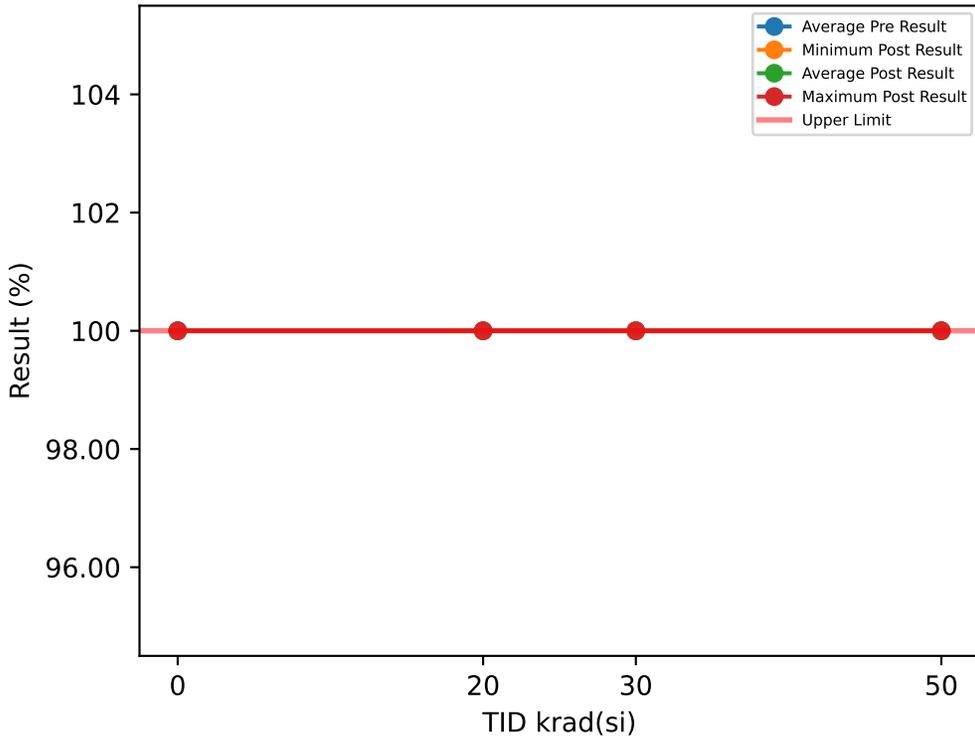| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

TID vs Post - Pre Exposure Delta

Legend:
- R²=1.000

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

Legend:
- Average Pre Result
- Minimum Post Result
- Average Post Result
- Maximum Post Result
- Upper Limit

TID vs Post - Pre Exposure Delta

Legend: R²=1.000

Test Results (Upper Limit = 100.0 (%))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 100.0 (%))

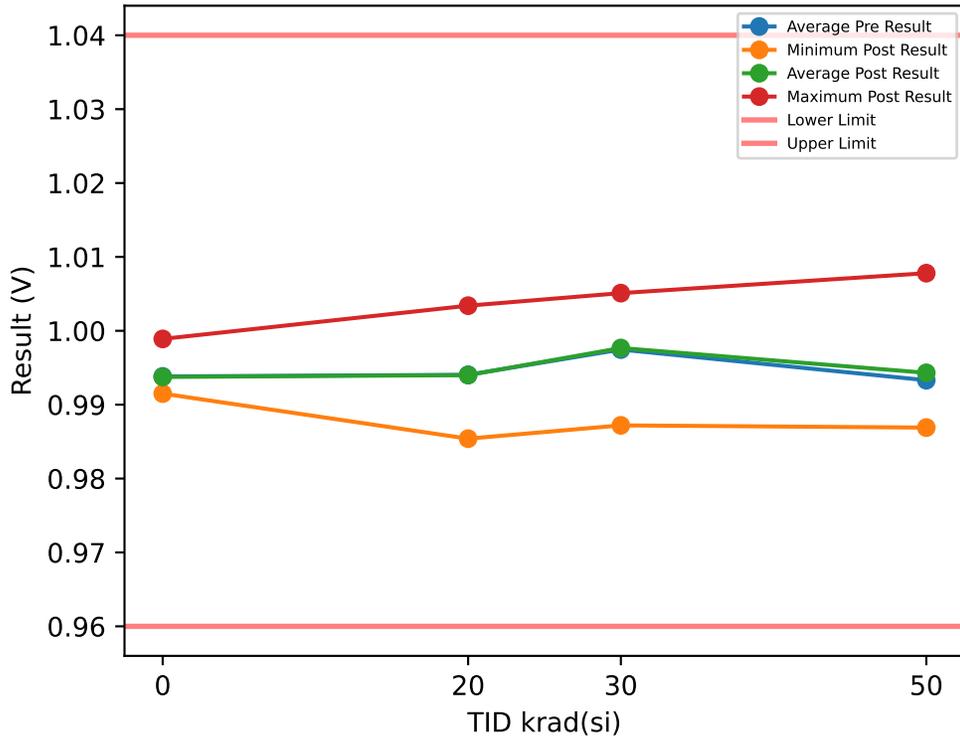| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	100	100	0
22	20	HDR BIAS	100	100	0
23	20	HDR BIAS	100	100	0
24	20	HDR BIAS	100	100	0
25	20	HDR BIAS	100	100	0
26	20	HDR UNBIAS	100	100	0
27	20	HDR UNBIAS	100	100	0
28	20	HDR UNBIAS	100	100	0
29	20	HDR UNBIAS	100	100	0
30	20	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
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
20	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

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

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9989	0.9988	-0.0001
22	20	HDR BIAS	0.9943	0.996	0.0017
23	20	HDR BIAS	1.0033	1.0034	0.0001
24	20	HDR BIAS	0.9915	0.9916	0.0001
25	20	HDR BIAS	0.9988	1.0007	0.0019
26	20	HDR UNBIAS	0.9929	0.993	0.0001
27	20	HDR UNBIAS	0.9913	0.9899	-0.0014
28	20	HDR UNBIAS	0.9869	0.9854	-0.0015
29	20	HDR UNBIAS	0.9867	0.9869	0.0002
30	20	HDR UNBIAS	0.9958	0.9943	-0.0015
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
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)
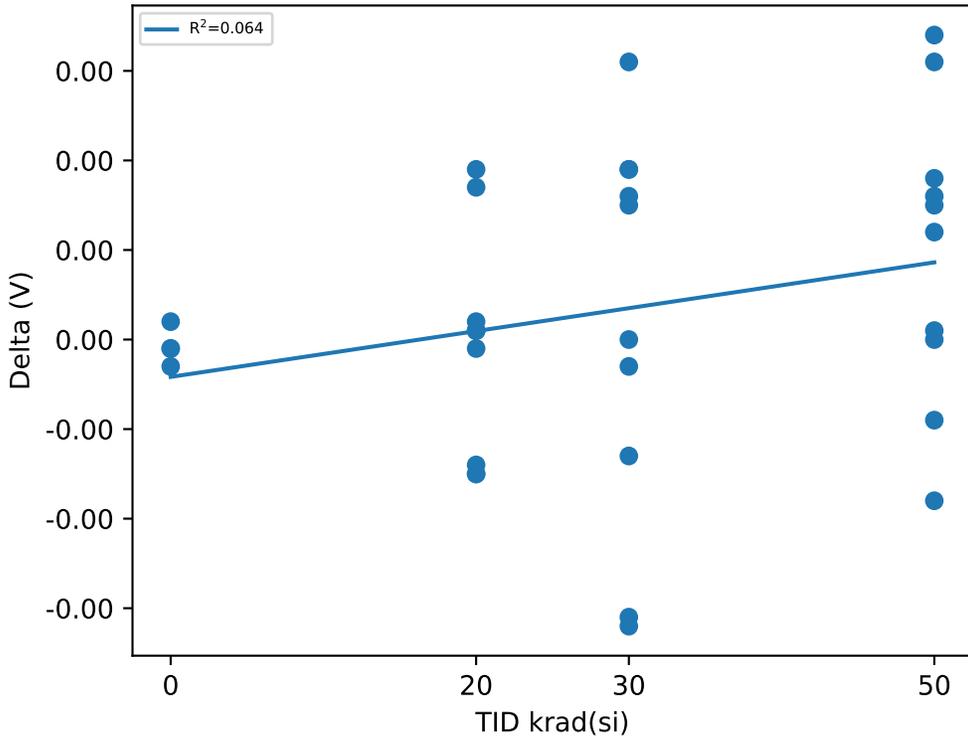
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9913	0.99382	0.9992	0.0036655	0.9915	0.99375	0.9989	0.003501	-0.0003	-7.5e-05	0.0002	0.00020616
20	0.9867	0.99404	1.0033	0.0053261	0.9854	0.994	1.0034	0.005853	-0.0015	-4e-05	0.0019	0.001203
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
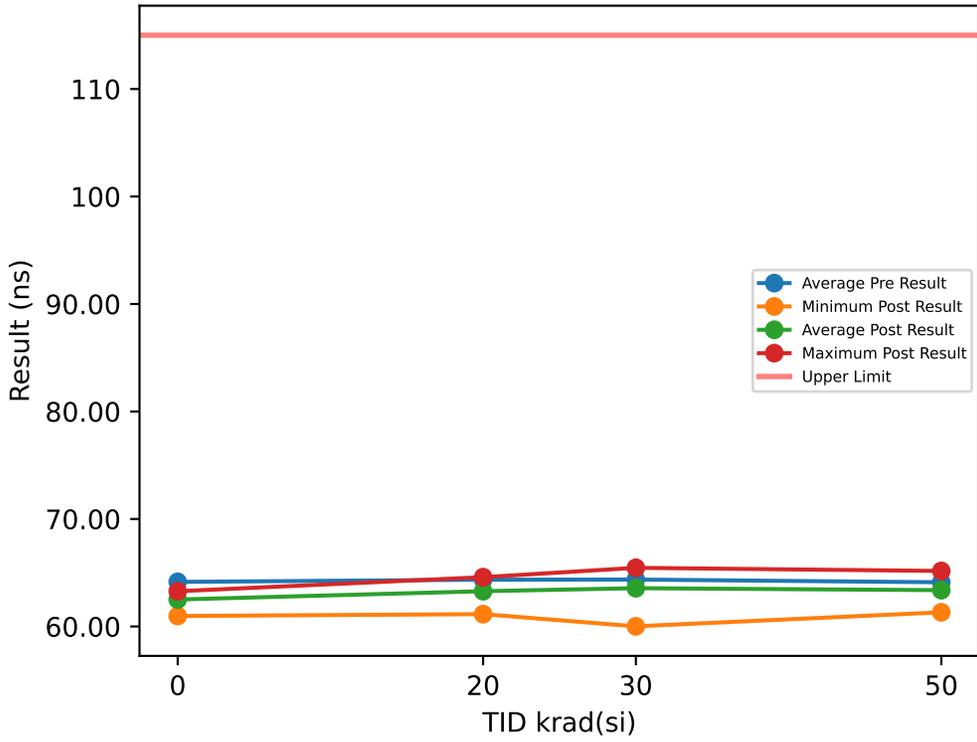
Device Test: 28.11 TIMING|DELAY/CS/12/12/0/0/5/100kHz//@CS_ILIM_DELAY

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 115.0 (ns))

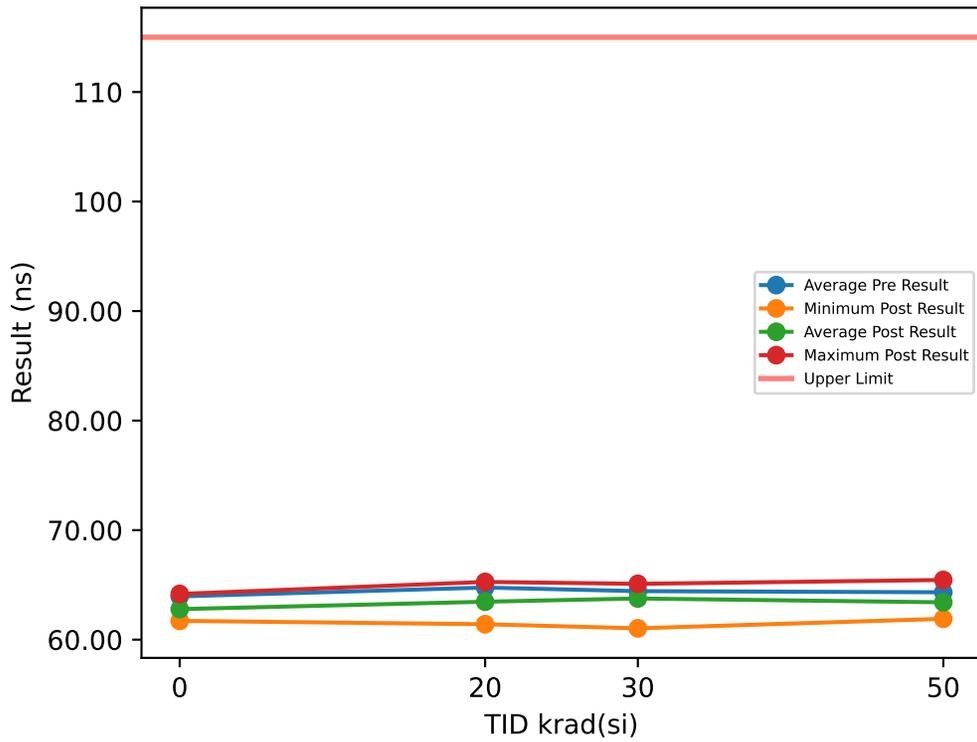| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	66.05	64.585	-1.4649
22	20	HDR BIAS	63.804	62.614	-1.1901
23	20	HDR BIAS	64.159	64.38	0.2203
24	20	HDR BIAS	64.453	64.025	-0.4288
25	20	HDR BIAS	63.379	62.353	-1.0251
26	20	HDR UNBIAS	63.861	62.197	-1.6638
27	20	HDR UNBIAS	65.217	64.388	-0.829
28	20	HDR UNBIAS	64.819	64.475	-0.3446
29	20	HDR UNBIAS	62.934	61.146	-1.7886
30	20	HDR UNBIAS	64.825	62.651	-2.174
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
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)
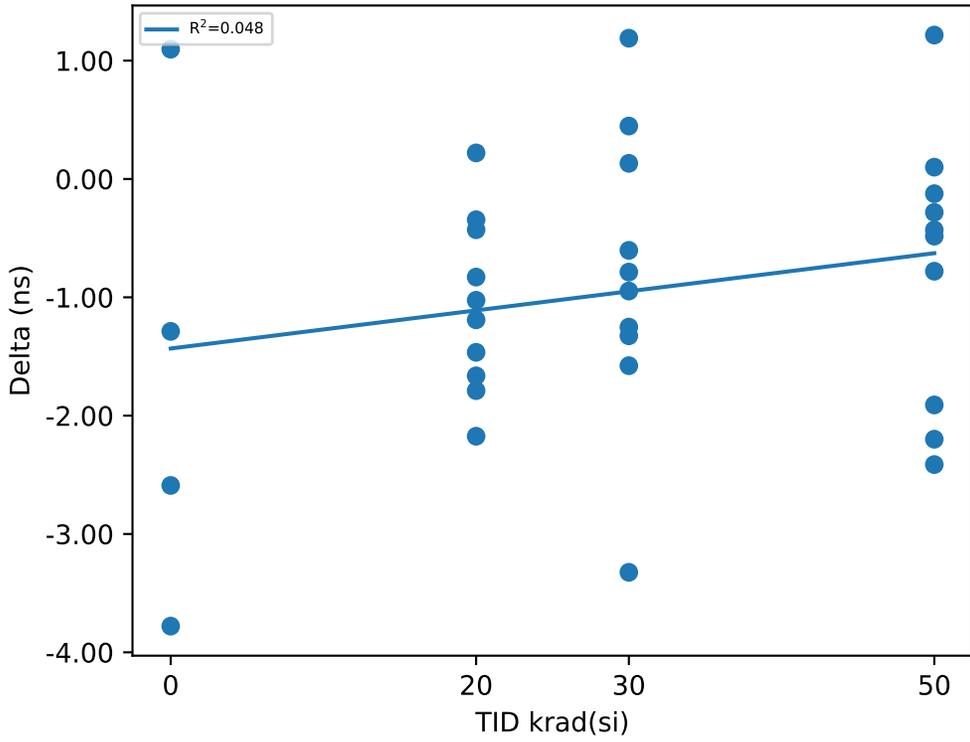
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.178	64.147	65.647	1.4736	60.976	62.507	63.275	1.0463	-3.7787	-1.6399	1.0968	2.0889
20	62.934	64.35	66.05	0.92006	61.146	63.281	64.585	1.2269	-2.174	-1.0689	0.2203	0.7394
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	65.523	64.666	-0.8578
22	20	HDR BIAS	64.635	62.936	-1.6986
23	20	HDR BIAS	65.059	65.271	0.2117
24	20	HDR BIAS	65.529	63.739	-1.79
25	20	HDR BIAS	63.601	63.004	-0.5967
26	20	HDR UNBIAS	64.105	61.719	-2.386
27	20	HDR UNBIAS	65.491	64.62	-0.8711
28	20	HDR UNBIAS	65.009	64.957	-0.0513
29	20	HDR UNBIAS	63.117	61.409	-1.7082
30	20	HDR UNBIAS	65.505	62.311	-3.1937
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
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)
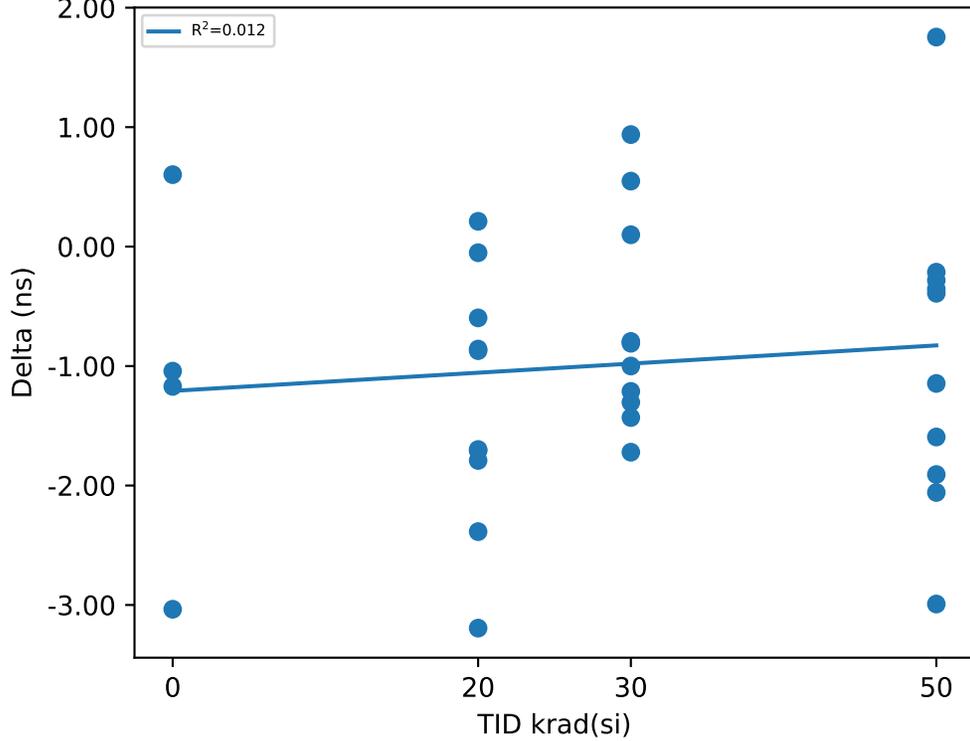
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.201	63.948	65.344	1.3964	61.716	62.787	64.174	1.0298	-3.0358	-1.1616	0.6024	1.4876
20	63.117	64.757	65.529	0.87575	61.409	63.463	65.271	1.392	-3.1937	-1.2942	0.2117	1.0567
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 115.0 (ns))

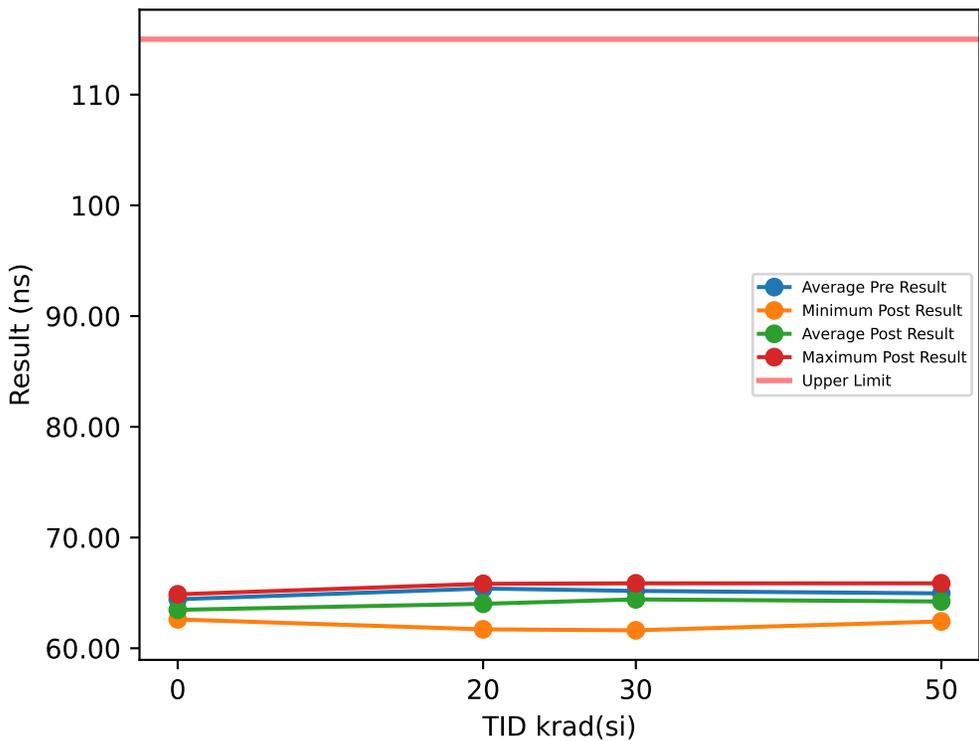| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	67.067	63.956	-3.1112
22	20	HDR BIAS	65.406	63.801	-1.6055
23	20	HDR BIAS	64.718	65.689	0.9715
24	20	HDR BIAS	66.213	64.415	-1.7982
25	20	HDR BIAS	63.961	63.053	-0.9076
26	20	HDR UNBIAS	64.499	63.224	-1.2758
27	20	HDR UNBIAS	66.45	65.821	-0.6285
28	20	HDR UNBIAS	65.792	64.791	-1.0004
29	20	HDR UNBIAS	63.534	61.71	-1.8244
30	20	HDR UNBIAS	66.324	63.699	-2.6253
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
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)
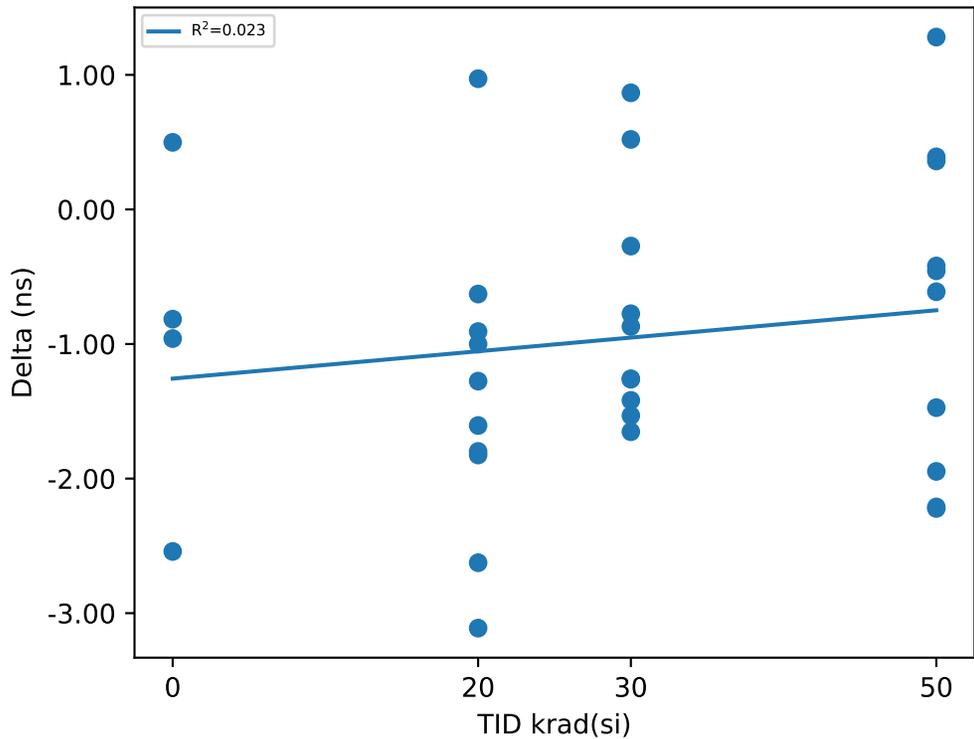
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.949	64.427	65.688	1.2319	62.608	63.472	64.872	0.995	-2.5415	-0.95448	0.4985	1.2449
20	63.534	65.396	67.067	1.1728	61.71	64.016	65.821	1.2402	-3.1112	-1.3805	0.9715	1.1276
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 115.0 (ns))

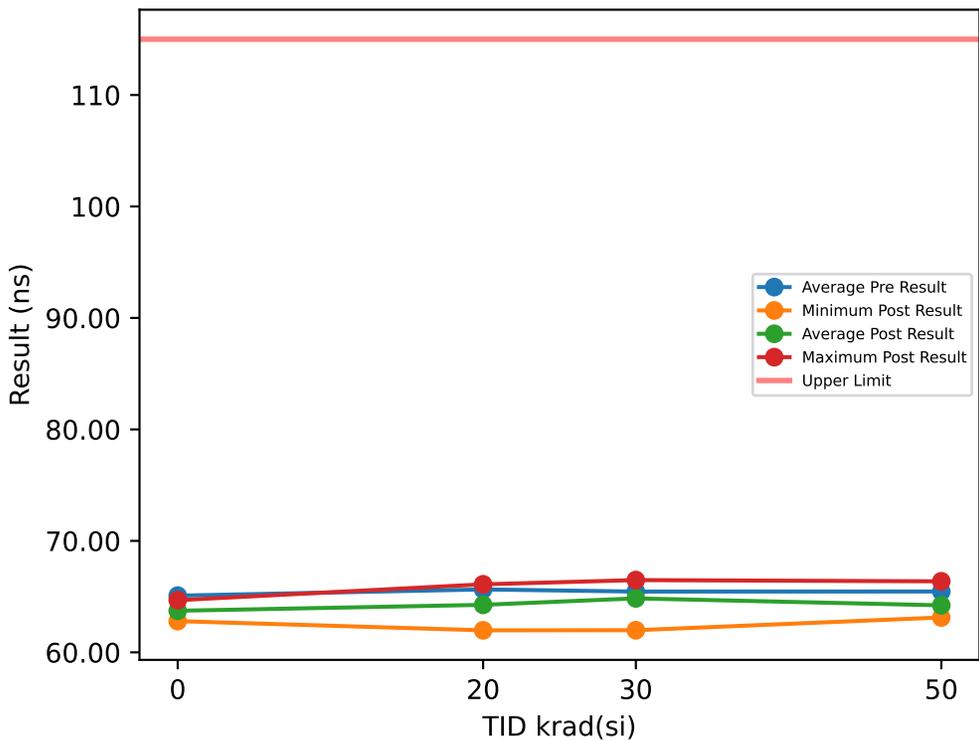| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	67.403	65.031	-2.3714
22	20	HDR BIAS	65.084	63.437	-1.6478
23	20	HDR BIAS	64.862	65.93	1.0672
24	20	HDR BIAS	66.634	64.576	-2.0582
25	20	HDR BIAS	64.416	63.06	-1.3563
26	20	HDR UNBIAS	64.851	63.377	-1.4739
27	20	HDR UNBIAS	66.695	66.102	-0.5939
28	20	HDR UNBIAS	65.924	65.105	-0.8186
29	20	HDR UNBIAS	63.788	61.975	-1.8136
30	20	HDR UNBIAS	66.792	64.035	-2.7572
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
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)
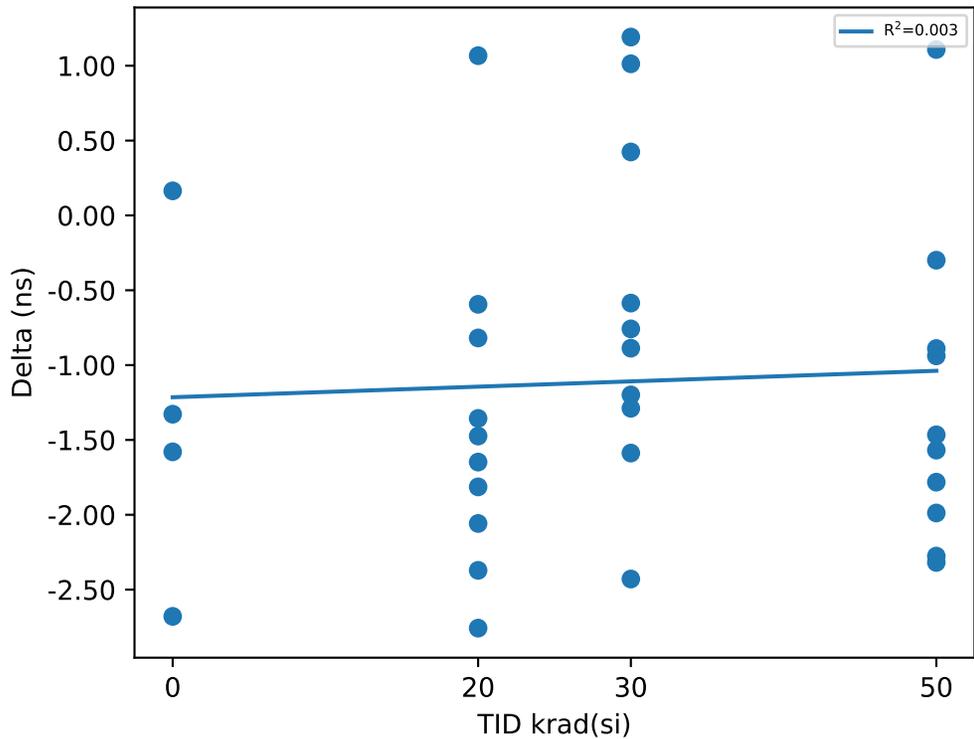
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	64.067	65.085	66.006	0.84258	62.801	63.73	64.678	0.87265	-2.6787	-1.3555	0.1641	1.1706
20	63.788	65.645	67.403	1.2055	61.975	64.263	66.102	1.3232	-2.7572	-1.3824	1.0672	1.0817
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

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 ())

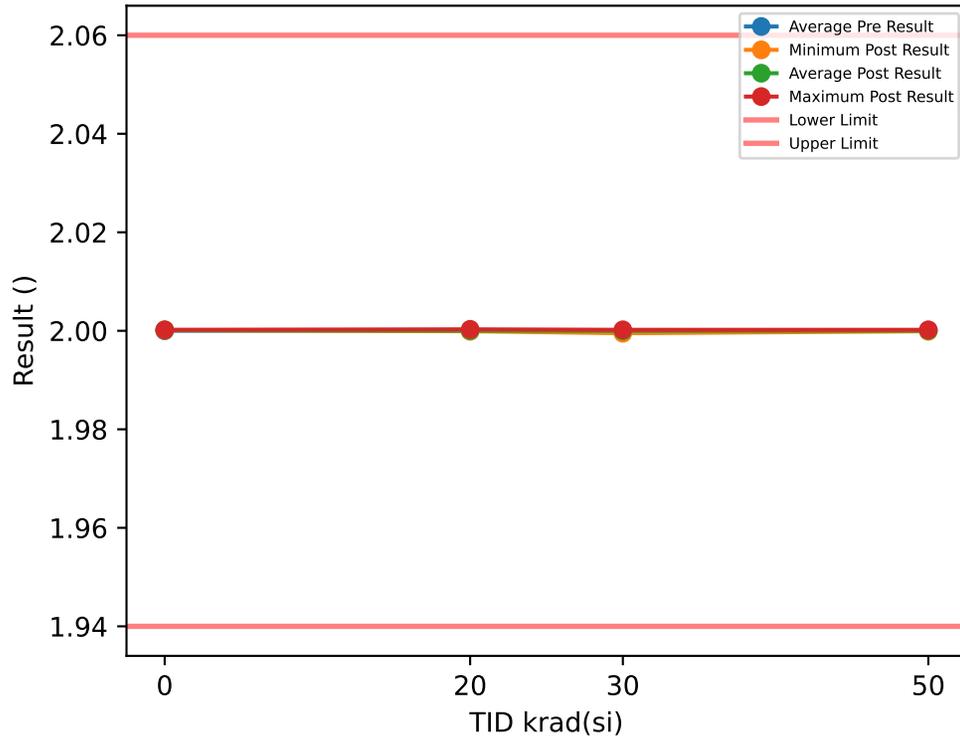| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.0004	2	-0.0004
22	20	HDR BIAS	2	2.0003	0.0003
23	20	HDR BIAS	2.0001	1.9999	-0.0002
24	20	HDR BIAS	2	1.9999	-0.0001
25	20	HDR BIAS	2	2.0001	0.0001
26	20	HDR UNBIAS	2.0003	2.0001	-0.0002
27	20	HDR UNBIAS	1.9999	1.9999	0
28	20	HDR UNBIAS	1.9999	1.9999	0
29	20	HDR UNBIAS	2.0001	2.0001	0
30	20	HDR UNBIAS	2	2.0001	0.0001
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
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 ()
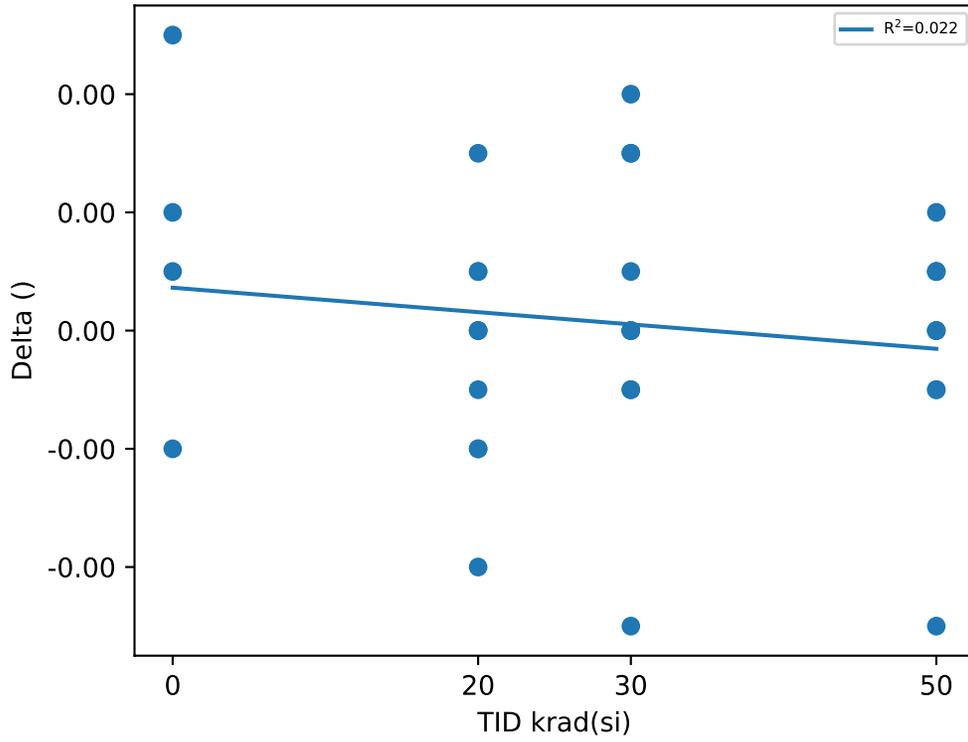
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9996	2	2.0003	0.00029439	2.0001	2.0002	2.0002	5.7735e-05	-0.0002	0.00015	0.0005	0.00028868
20	1.9999	2.0001	2.0004	0.00016364	1.9999	2	2.0003	0.00013375	-0.0004	-4e-05	0.0003	0.00019551
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
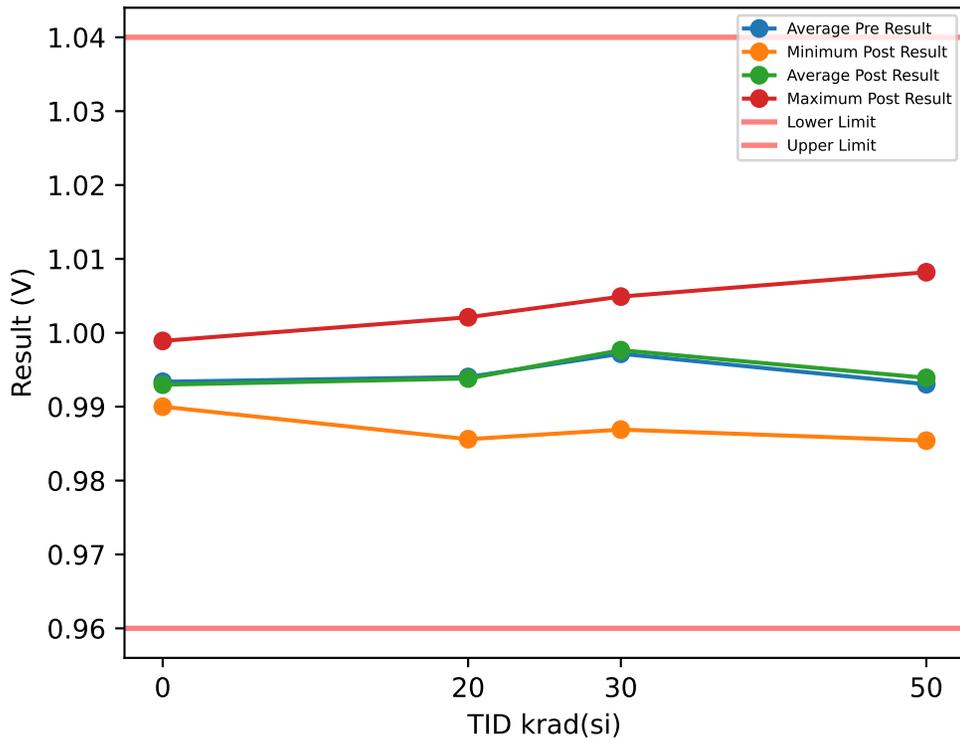
Device Test: 28.17 VOLTAGE|OC/CS/8/8/0/0/5/100kHz//@V_CS_ILIM_OC

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9989	0.9977	-0.0012
22	20	HDR BIAS	0.9944	0.996	0.0016
23	20	HDR BIAS	1.0036	1.0021	-0.0015
24	20	HDR BIAS	0.9915	0.9916	0.0001
25	20	HDR BIAS	0.9989	1.0004	0.0015
26	20	HDR UNBIAS	0.9928	0.9929	0.0001
27	20	HDR UNBIAS	0.9916	0.99	-0.0016
28	20	HDR UNBIAS	0.9869	0.9856	-0.0013
29	20	HDR UNBIAS	0.9873	0.9871	-0.0002
30	20	HDR UNBIAS	0.9943	0.9947	0.0004
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
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)
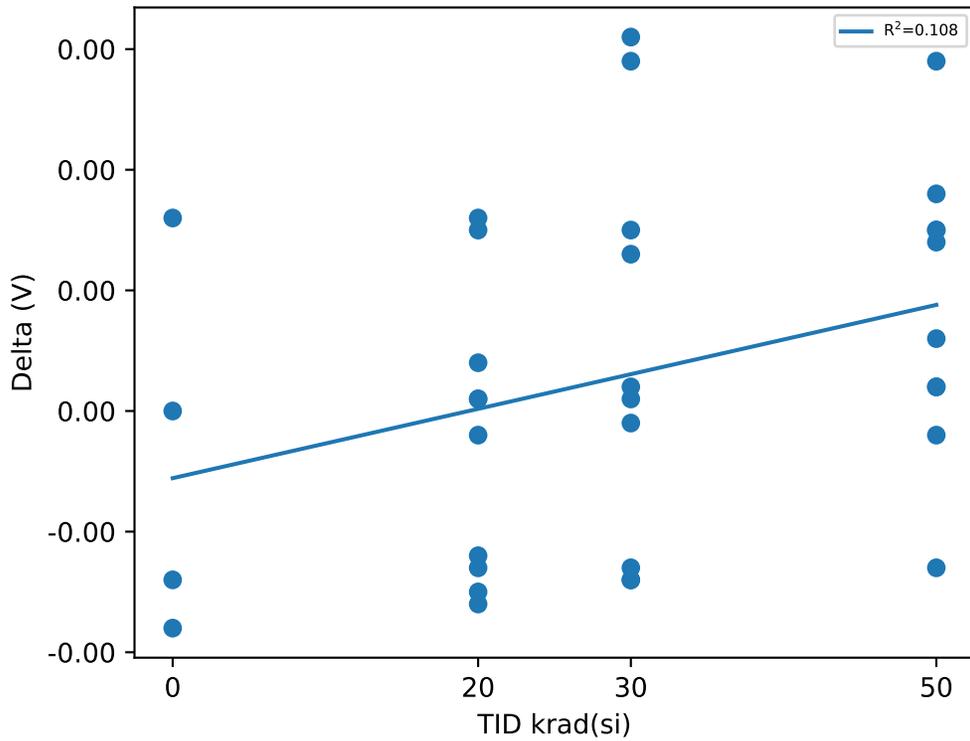
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9914	0.99338	0.9973	0.00269	0.99	0.99297	0.9989	0.0041724	-0.0018	-0.0004	0.0016	0.0015406
20	0.9869	0.99402	1.0036	0.0052618	0.9856	0.99381	1.0021	0.0054317	-0.0016	-0.00021	0.0016	0.0011799
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

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

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

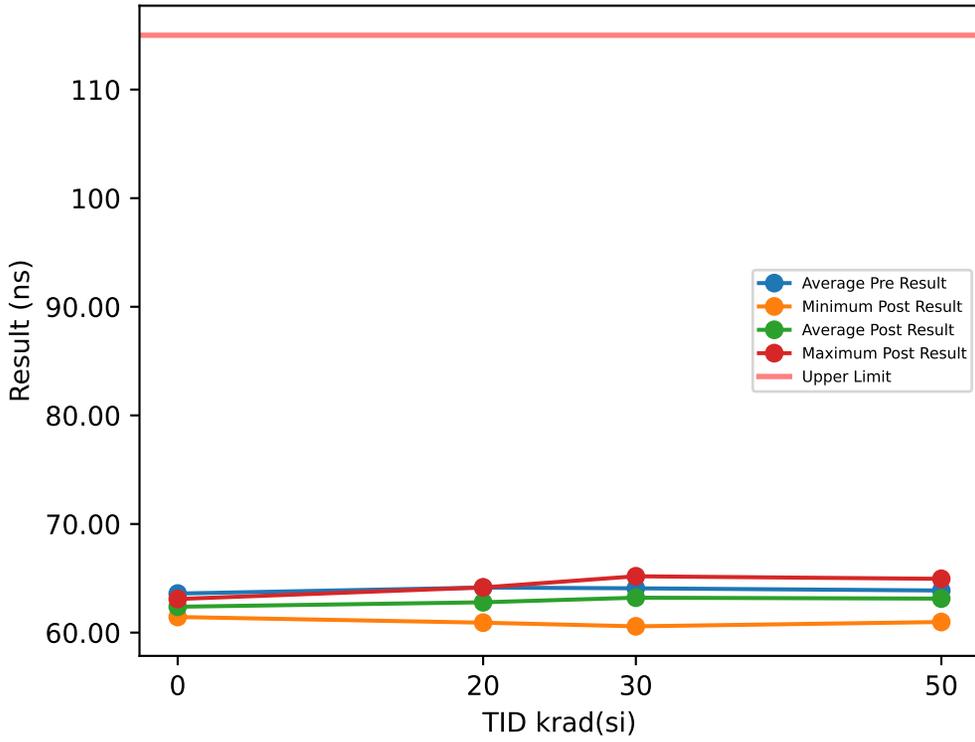| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9988	0.9988	0
22	20	HDR BIAS	0.9945	0.9958	0.0013
23	20	HDR BIAS	1.0032	1.0036	0.0004
24	20	HDR BIAS	0.9913	0.9916	0.0003
25	20	HDR BIAS	0.9989	1.0003	0.0014
26	20	HDR UNBIAS	0.9928	0.9929	0.0001
27	20	HDR UNBIAS	0.9896	0.99	0.0004
28	20	HDR UNBIAS	0.9853	0.9854	0.0001
29	20	HDR UNBIAS	0.9866	0.9872	0.0006
30	20	HDR UNBIAS	0.9946	0.9948	0.0002
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
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
20	0.9853	0.99356	1.0032	0.0056657	0.9854	0.99404	1.0036	0.005792	0	0.00048	0.0014	0.00049171
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 115.0 (ns))

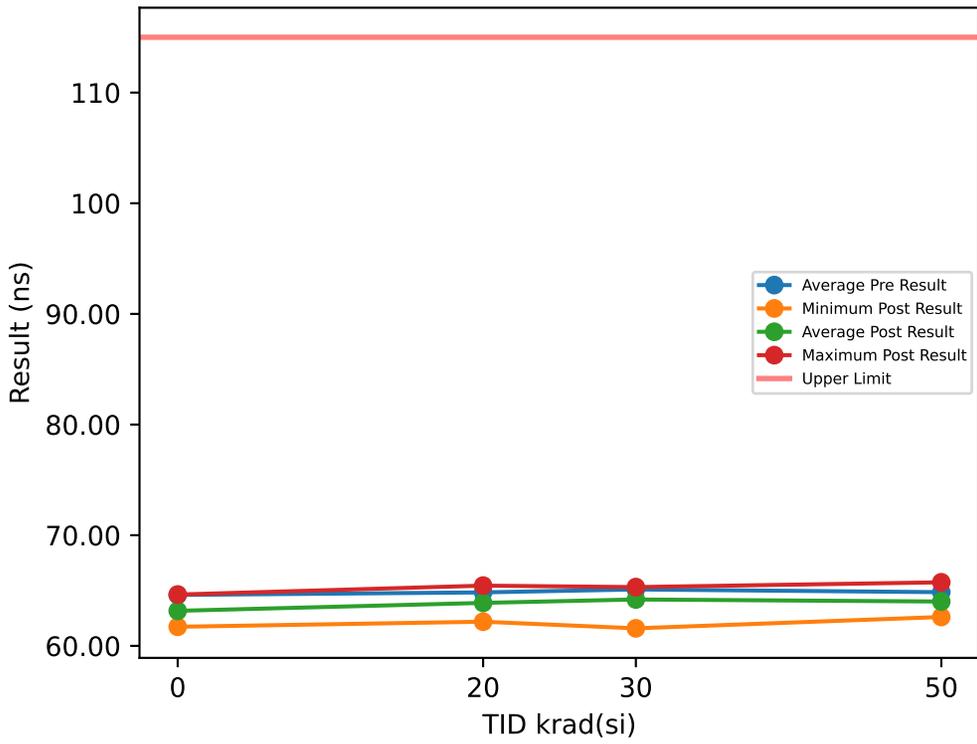| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	65.932	63.745	-2.1863
22	20	HDR BIAS	63.766	61.908	-1.8578
23	20	HDR BIAS	63.996	64.135	0.1393
24	20	HDR BIAS	64.964	63.658	-1.3064
25	20	HDR BIAS	63.018	62.627	-0.3908
26	20	HDR UNBIAS	64.211	61.137	-3.0746
27	20	HDR UNBIAS	64.381	64.16	-0.2207
28	20	HDR UNBIAS	64.552	63.764	-0.7882
29	20	HDR UNBIAS	61.87	60.914	-0.9553
30	20	HDR UNBIAS	64.778	61.87	-2.9075
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
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)
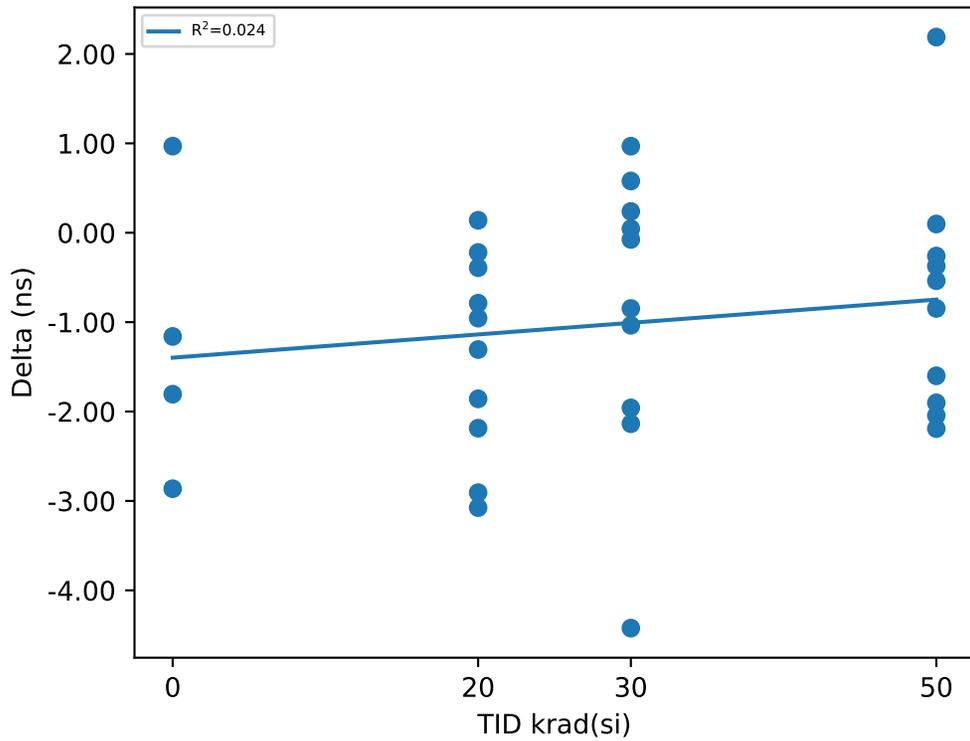
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.123	63.596	64.688	1.1492	61.437	62.381	63.093	0.75724	-2.8632	-1.2151	0.969	1.6165
20	61.87	64.147	65.932	1.1108	60.914	62.792	64.16	1.2563	-3.0746	-1.3548	0.1393	1.1177
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

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

TID vs Result Stats

TID vs Post - Pre Exposure Delta

Test Results (Upper Limit = 115.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	66.1	65.338	-0.7627
22	20	HDR BIAS	65.325	63.557	-1.7677
23	20	HDR BIAS	64.547	65.444	0.8974
24	20	HDR BIAS	65.386	64.032	-1.3544
25	20	HDR BIAS	63.846	63.297	-0.5488
26	20	HDR UNBIAS	64.743	62.185	-2.5581
27	20	HDR UNBIAS	65.503	64.87	-0.6331
28	20	HDR UNBIAS	64.702	64.999	0.2974
29	20	HDR UNBIAS	62.813	62.322	-0.4906
30	20	HDR UNBIAS	65.362	62.803	-2.5589
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
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)
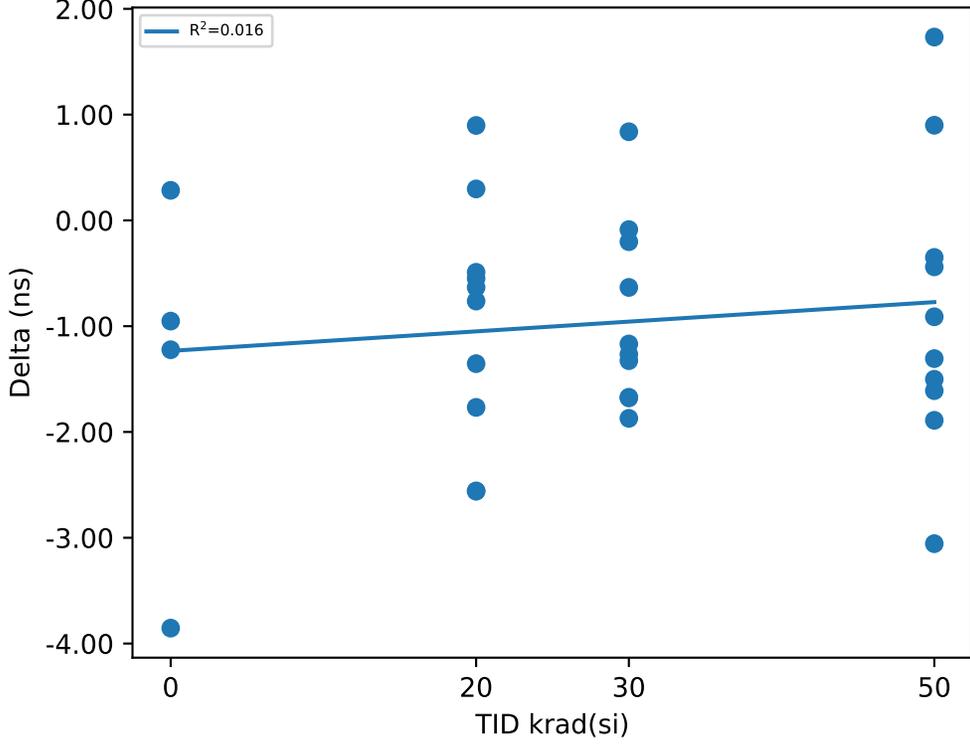
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	62.858	64.603	65.59	1.2937	61.726	63.166	64.638	1.1891	-3.8543	-1.4363	0.284	1.7403
20	62.813	64.833	66.1	0.94546	62.185	63.885	65.444	1.2351	-2.5589	-0.94795	0.8974	1.1296
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
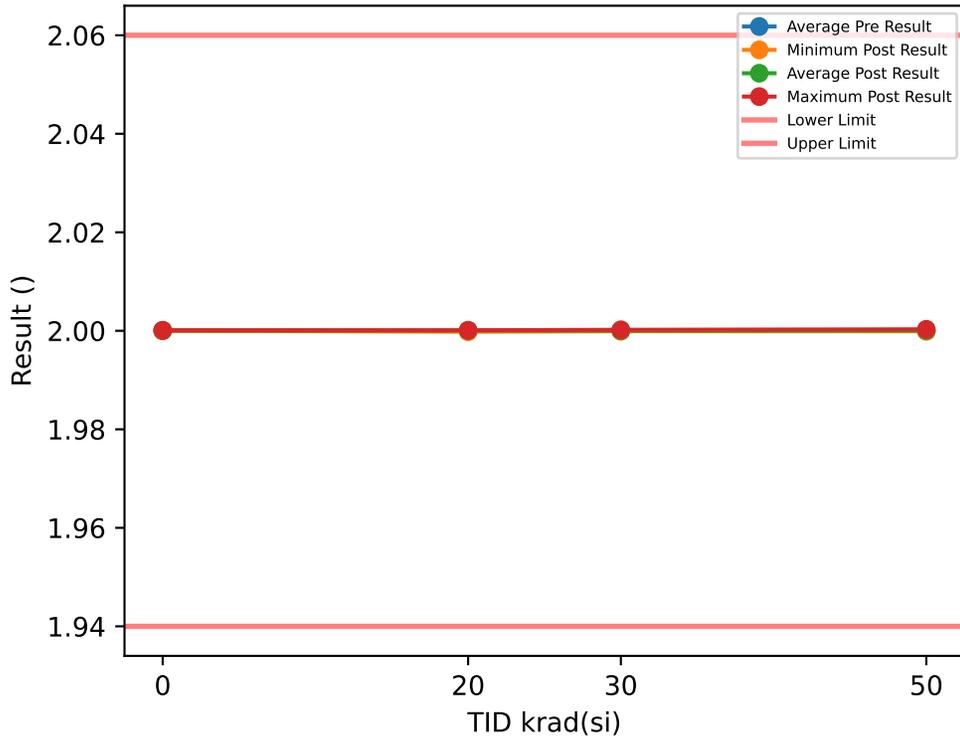
Device Test: 28.3 LEVEL|RATIO/CS/12/12/0/0/5/500kHz//@C_CS_R

TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

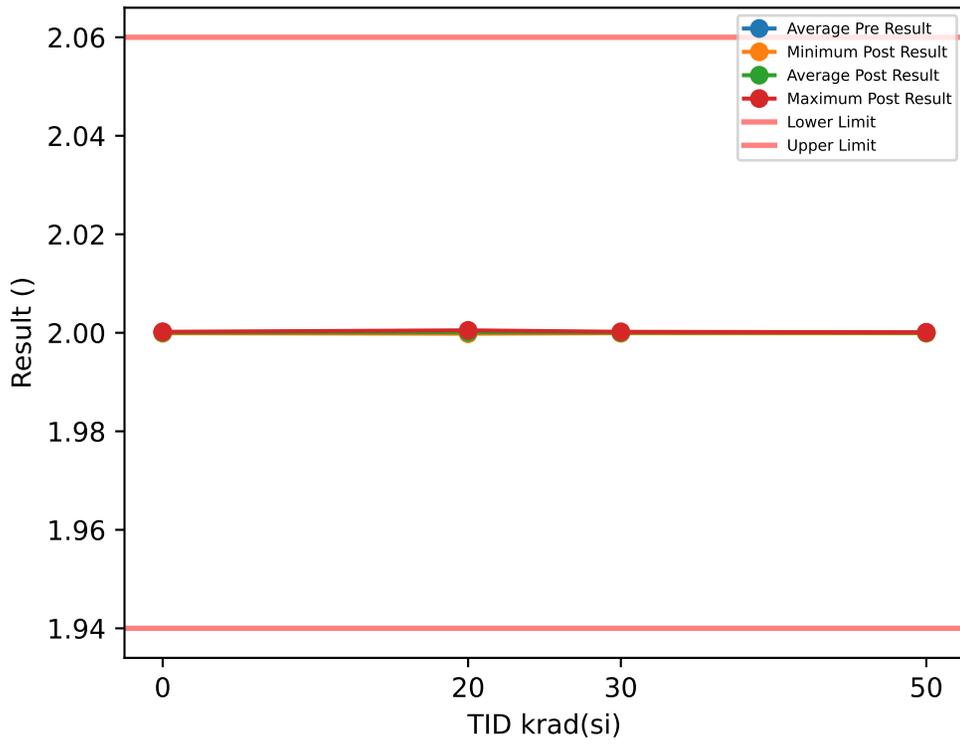| Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	2.0004	1.9998	-0.0006
22	20	HDR BIAS	2	2.0001	0.0001
23	20	HDR BIAS	2.0001	2.0001	0
24	20	HDR BIAS	2.0002	1.9999	-0.0003
25	20	HDR BIAS	2	2.0001	0.0001
26	20	HDR UNBIAS	1.9999	2	0.0001
27	20	HDR UNBIAS	1.9999	2.0001	0.0002
28	20	HDR UNBIAS	2	2.0001	0.0001
29	20	HDR UNBIAS	1.9997	2.0001	0.0004
30	20	HDR UNBIAS	2	2.0001	0.0001
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
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 ()
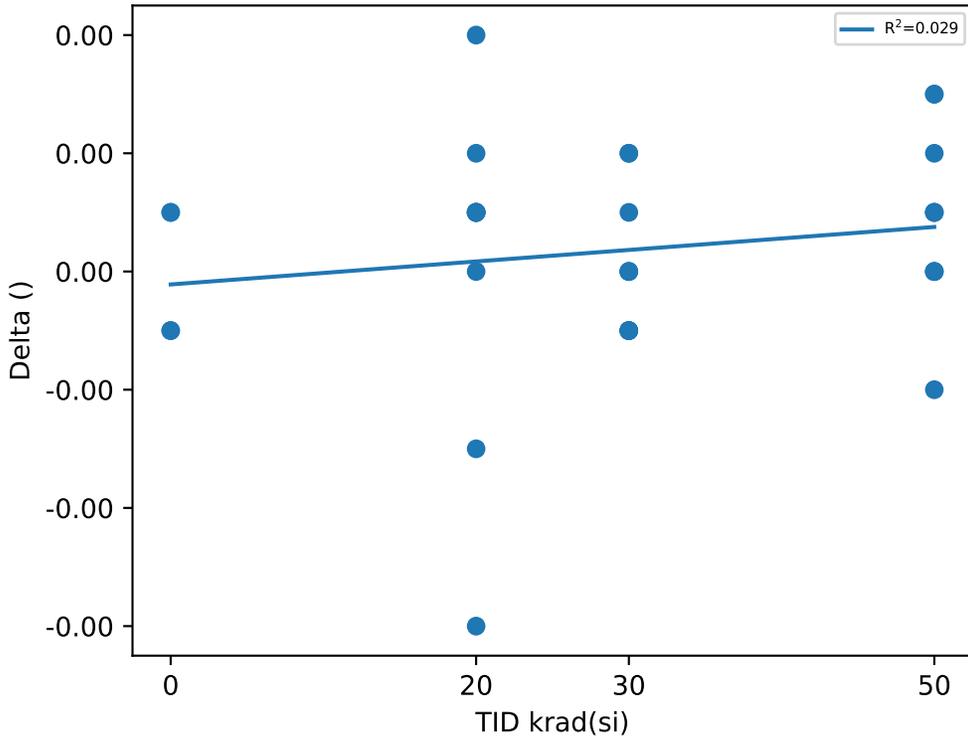
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2	2	2.0001	5.7735e-05	2	2	2.0001	5.7735e-05	-0.0001	0	0.0001	0.00011547
20	1.9997	2	2.0004	0.00018738	1.9998	2	2.0001	0.0001075	-0.0006	2e-05	0.0004	0.00027809
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

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
21	20	HDR BIAS	2.0002	2.0001	-0.0001
22	20	HDR BIAS	2.0001	1.9999	-0.0002
23	20	HDR BIAS	2.0002	2.0005	0.0003
24	20	HDR BIAS	2	1.9999	-0.0001
25	20	HDR BIAS	2	2.0001	0.0001
26	20	HDR UNBIAS	2.0001	2.0001	0
27	20	HDR UNBIAS	2.0001	2.0002	0.0001
28	20	HDR UNBIAS	2	1.9998	-0.0002
29	20	HDR UNBIAS	2.0003	2.0001	-0.0002
30	20	HDR UNBIAS	2	2.0001	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
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 ()
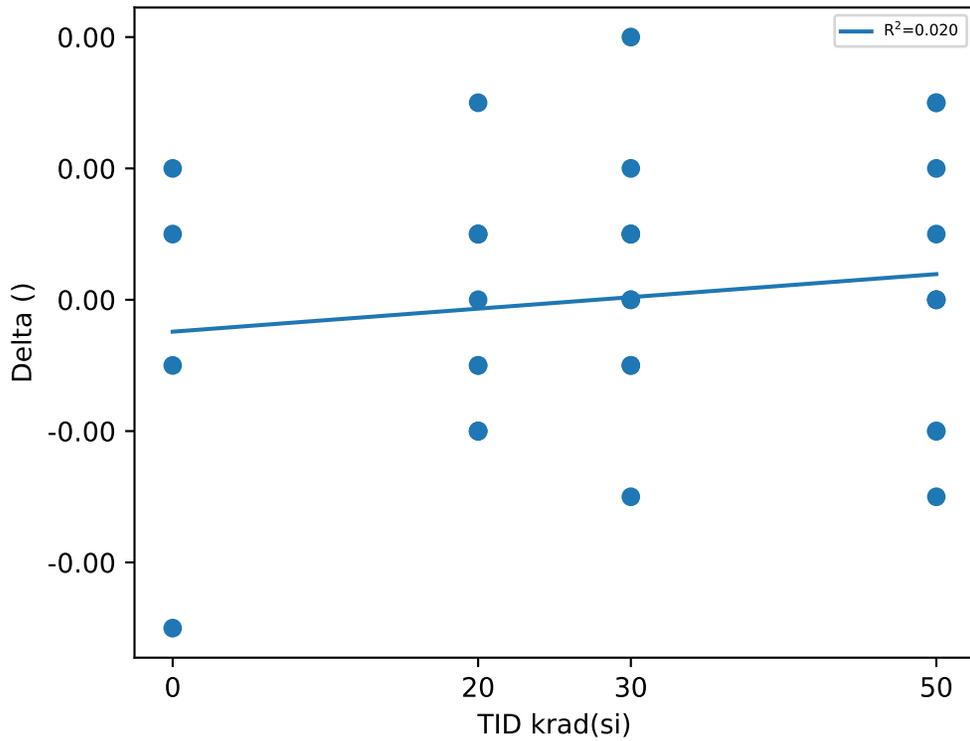
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2	2.0001	2.0004	0.0001893	1.9999	2	2.0002	0.0001291	-0.0005	-7.5e-05	0.0002	0.00030957
20	2	2.0001	2.0003	0.00010541	1.9998	2.0001	2.0005	0.00019322	-0.0002	-2e-05	0.0003	0.00016865
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
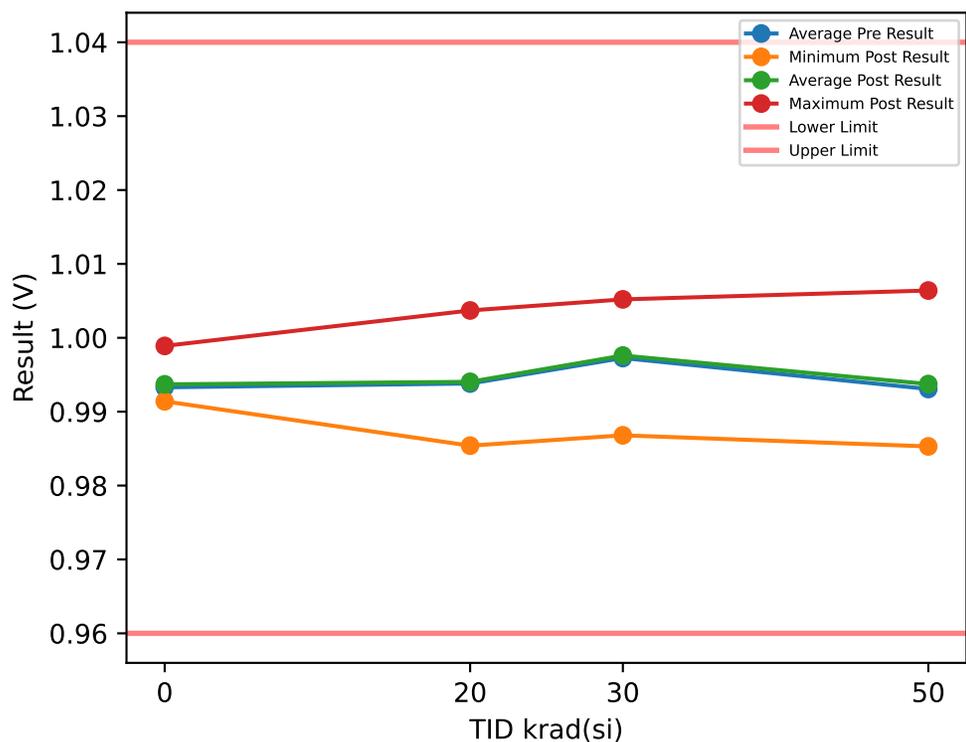
Device Test: 28.7 VOLTAGE|OC/CS/12/12/0/0/5/100kHz//@V_CS_ILIM_OC

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9991	0.9989	-0.0002
22	20	HDR BIAS	0.9945	0.9963	0.0018
23	20	HDR BIAS	1.0032	1.0037	0.0005
24	20	HDR BIAS	0.9913	0.9916	0.0003
25	20	HDR BIAS	0.9989	1.0004	0.0015
26	20	HDR UNBIAS	0.9929	0.9914	-0.0015
27	20	HDR UNBIAS	0.9899	0.9914	0.0015
28	20	HDR UNBIAS	0.9869	0.9854	-0.0015
29	20	HDR UNBIAS	0.9871	0.9868	-0.0003
30	20	HDR UNBIAS	0.9943	0.9945	0.0002
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
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)
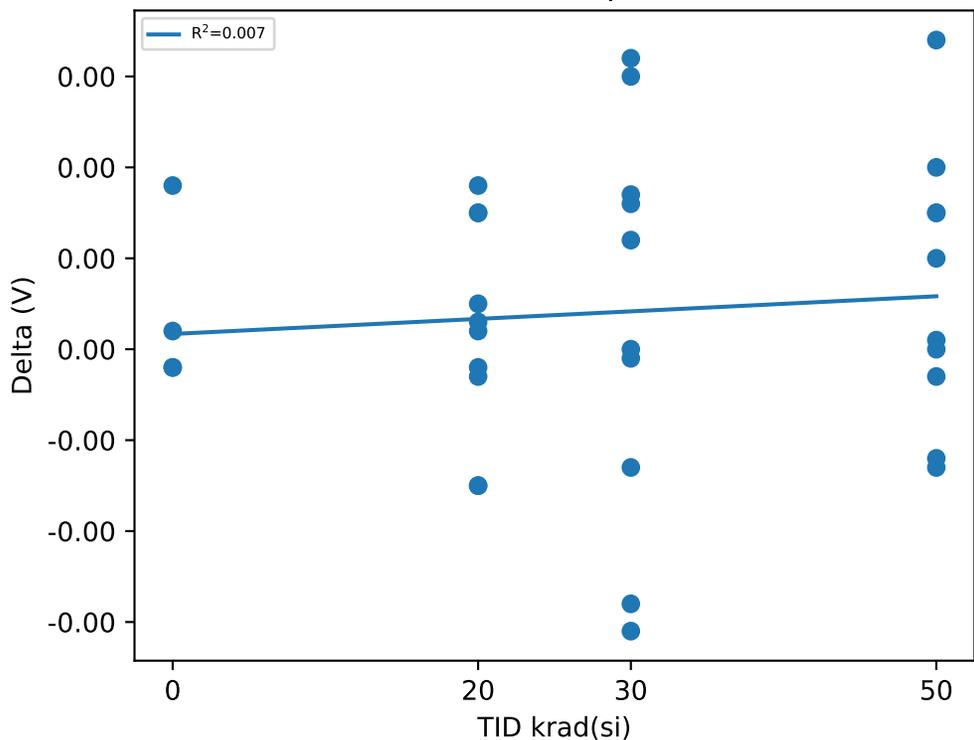
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9912	0.9933	0.9971	0.0026546	0.9914	0.9937	0.9989	0.0035299	-0.0002	0.0004	0.0018	0.00095219
20	0.9869	0.99381	1.0032	0.0053538	0.9854	0.99404	1.0037	0.0058658	-0.0015	0.00023	0.0018	0.0011653
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
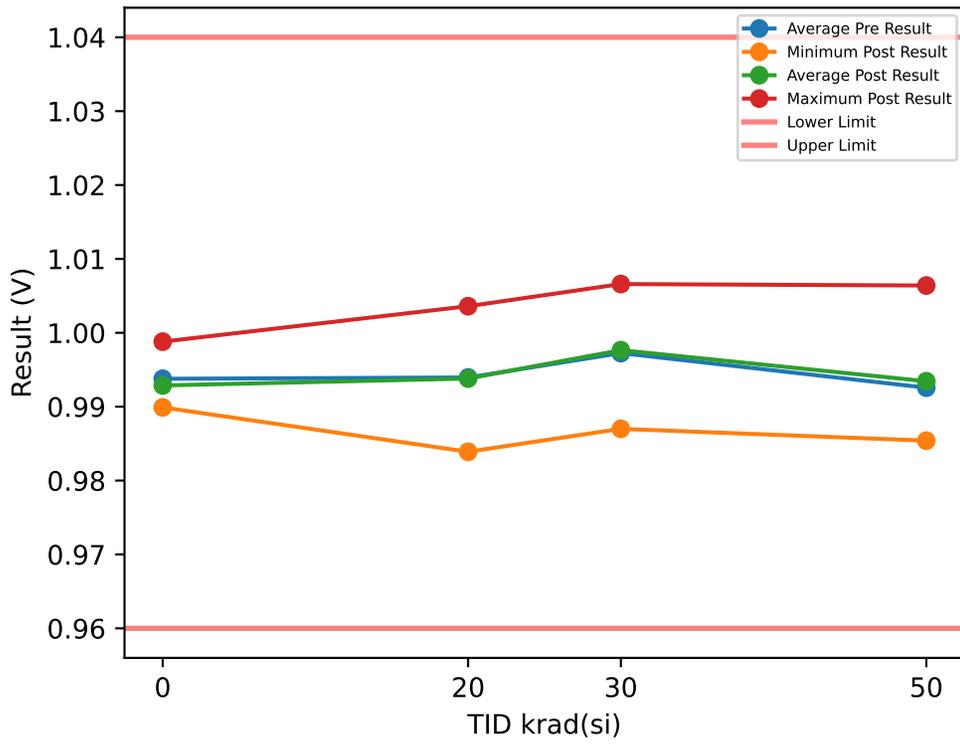
Device Test: 28.8 VOLTAGE|OC/CS/14/14/0/0/5/100kHz//@V_CS_ILIM_OC

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9988	0.9988	0
22	20	HDR BIAS	0.9944	0.9959	0.0015
23	20	HDR BIAS	1.0032	1.0036	0.0004
24	20	HDR BIAS	0.9913	0.9914	0.0001
25	20	HDR BIAS	0.9988	1.0004	0.0016
26	20	HDR UNBIAS	0.9931	0.9929	-0.0002
27	20	HDR UNBIAS	0.9898	0.9899	0.0001
28	20	HDR UNBIAS	0.987	0.9839	-0.0031
29	20	HDR UNBIAS	0.9873	0.9869	-0.0004
30	20	HDR UNBIAS	0.9958	0.9944	-0.0014
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
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)
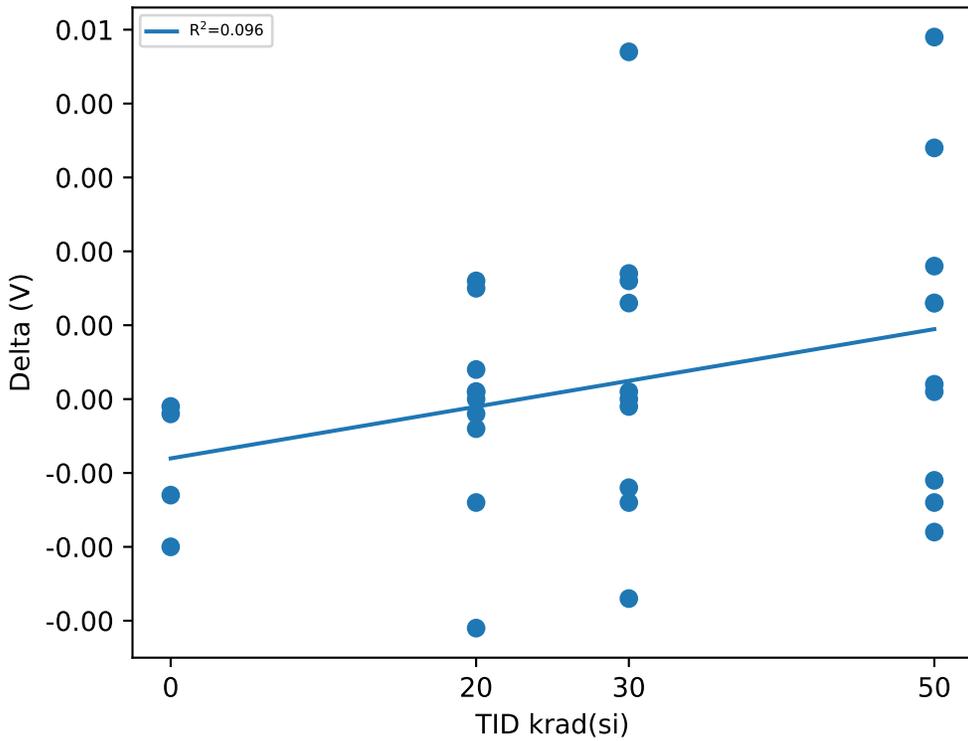
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9913	0.99377	0.9989	0.0034884	0.9899	0.99287	0.9988	0.0041724	-0.002	-0.0009	-0.0001	0.00091287
20	0.987	0.99395	1.0032	0.0053096	0.9839	0.99381	1.0036	0.0061171	-0.0031	-0.00014	0.0016	0.0013566
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
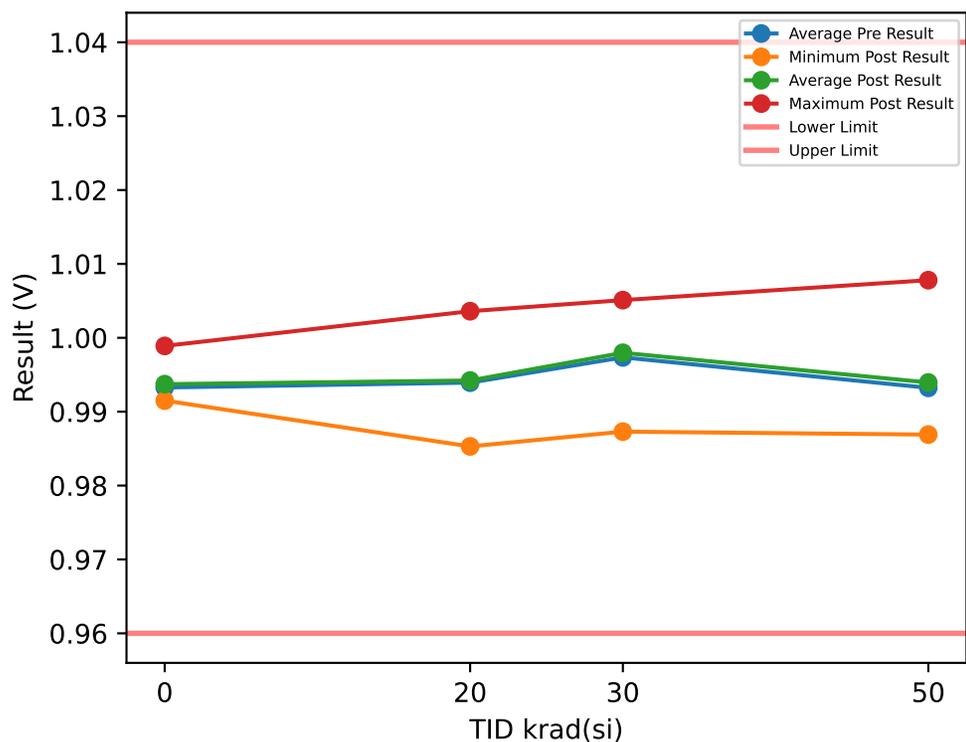
Device Test: 28.9 VOLTAGE|OC/CS/12/12/0/0/5/500kHz//@V_CS_ILIM_OC

## TID vs Result Stats

TID vs Post - Pre Exposure Delta

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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
21	20	HDR BIAS	0.9988	0.9991	0.0003
22	20	HDR BIAS	0.9943	0.9958	0.0015
23	20	HDR BIAS	1.0033	1.0036	0.0003
24	20	HDR BIAS	0.9911	0.9916	0.0005
25	20	HDR BIAS	0.9988	1.0006	0.0018
26	20	HDR UNBIAS	0.9929	0.9934	0.0005
27	20	HDR UNBIAS	0.99	0.9915	0.0015
28	20	HDR UNBIAS	0.987	0.9853	-0.0017
29	20	HDR UNBIAS	0.9873	0.9869	-0.0004
30	20	HDR UNBIAS	0.9958	0.9944	-0.0014
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
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)
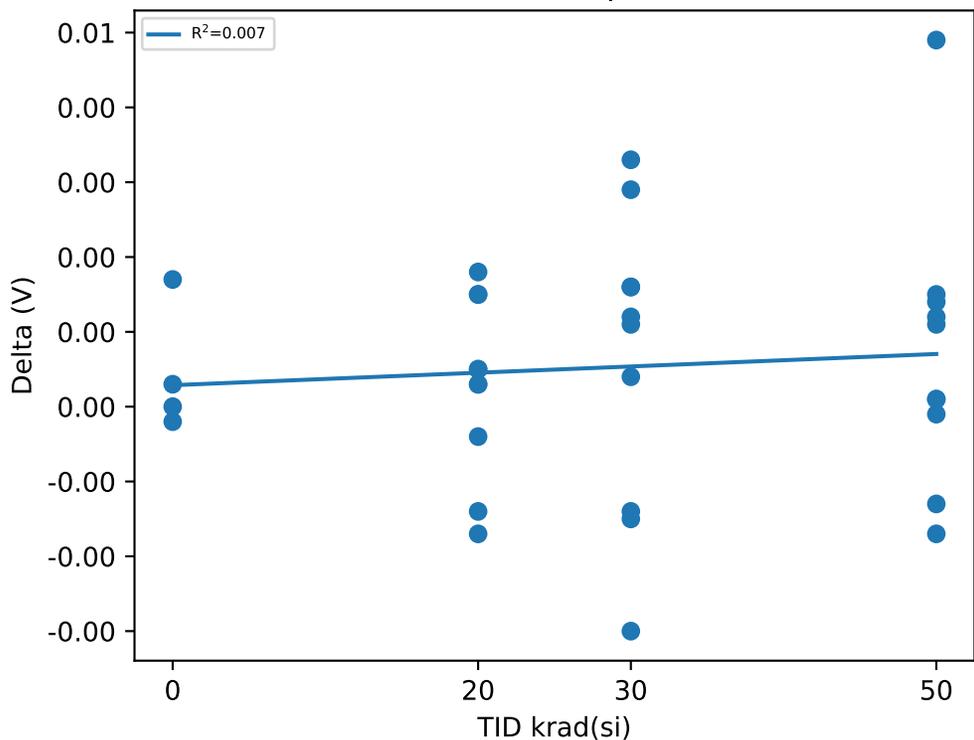
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9898	0.99328	0.9991	0.0040844	0.9915	0.99372	0.9989	0.0035084	-0.0002	0.00045	0.0017	0.00085829
20	0.987	0.99393	1.0033	0.0053267	0.9853	0.99422	1.0036	0.0058034	-0.0017	0.00029	0.0018	0.0011827
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

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