Radiation Report

TPS7H4012-SP (QMLP) Total Ionizing Dose (TID) Radiation Report

ABSTRACT

This report discusses the results of the TID testing for the Texas Instruments TPS7H4012-SP (QMLP) 4.5V to 14V input, 6A radiation hardened synchronous buck converter.

The study was done to determine TID effects under high dose rate (HDR) up to 100krad(Si) after 168h anneal at room temperature (resulting in an effective dose rate of 165mrad(Si)/s).

The results show that all samples passed within the specified limits up to 100krad(Si).

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1 Device Information

1.1 Product Description

The TPS7H4012-SP (QMLP) is a 14V, 6A synchronous buck converter optimized for use in a space environment. High efficiency and reduced component count are achieved through peak current mode control.

The wide voltage range of the TPS7H4012-SP (QMLP) enables the device to be used as a point of load regulator to convert directly from a 12V or 5V rail. The output voltage start-up ramp is controlled by the SS_TR pin. Power sequencing is possible with the EN and PWRGD pins. Additionally, various features are included such as an optimized current limit, a flexible switching frequency, and configurable compensation.

1.2 Device Details

Table 1-1 lists the device information used in the TID HDR characterization.

Table 1-1. Device and Exposure Details

TID Exposure Details	
TI Device	TPS7H4012-SP (QMLP)
Package	44-pin HTSSOP (DDW)
TI Part Name	5962R2122103PYE
Technology	LBC7 (Linear BiCMOS 7)
Assembly Lot Number	5129635 and 5138190
Quantity Tested	HDR: 65 Devices • Five biased and five unbiased units at 3krad (Si) levels • Five biased and five unbiased units at 10krad (Si) levels • Five biased and five unbiased units at 20krad (Si) levels • Five biased and five unbiased units at 30krad (Si) levels • Five biased and five unbiased units at 50krad (Si) levels • Five biased and five unbiased units at 100krad (Si) levels • Five control/correlation units with no exposure
HDR Radiation Facility	Texas Instruments, Dallas, TX
HDR Dose Level	100krad(Si)
HDR Dose Rate	156.35 rads(Si)/s ionizing radiation dose rate
HDR Radiation Source	Gamma cell Co-60
Irradiation Temperature	Ambient, room temperature controlled to 25°C (±6°C) per MIL-STD-883 and MIL-STD-750.

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100krad biased and unbiased devices were annealed for 168 hours at room temperature with their respective bias condition resulting in an effective dose rate of 165mrad(Si)/s.

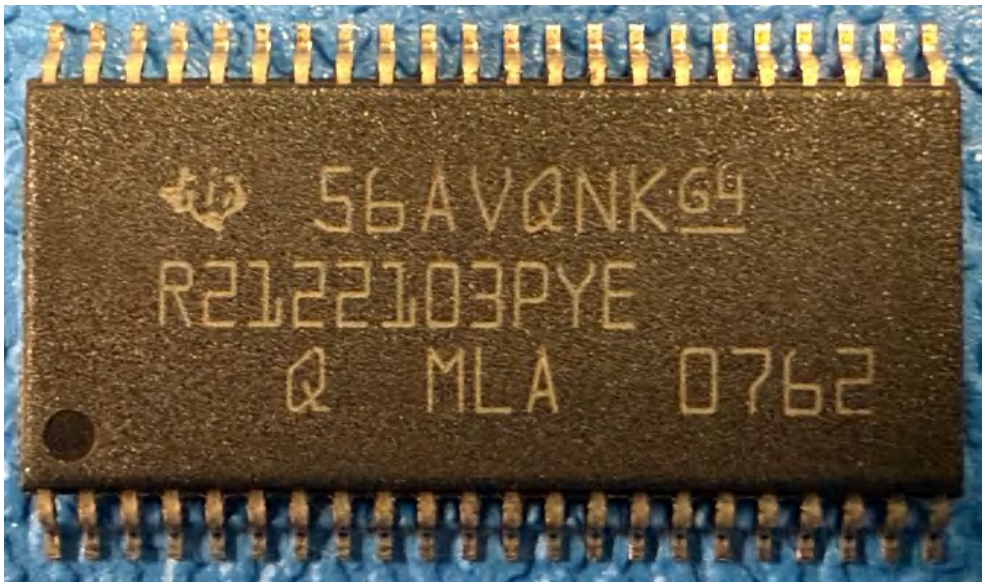

Figure 1-1. TPS7H4012-SP (QMLP) Device Used in Exposure (Front)

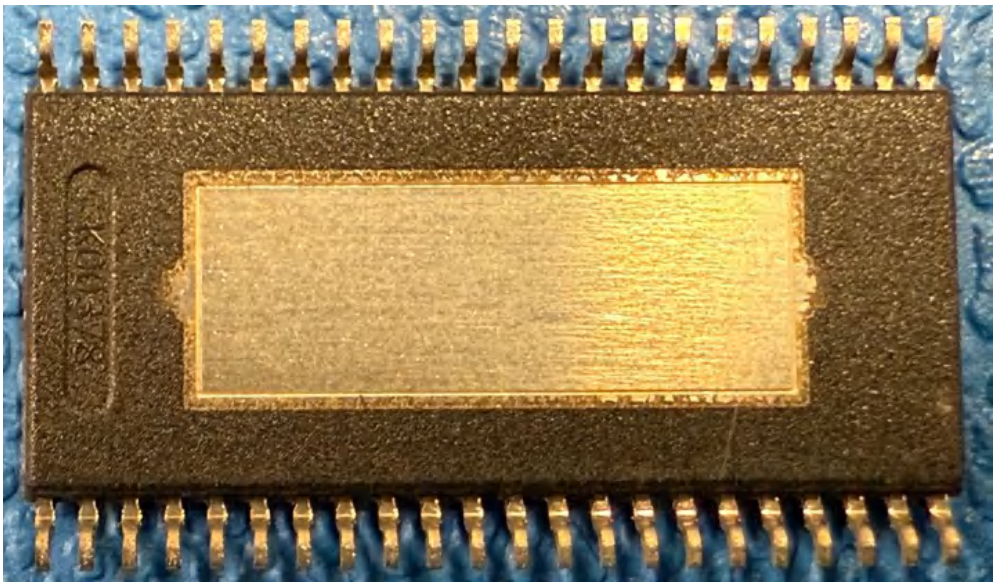

Figure 1-2. TPS7H4012-SP (QMLP) Device Used in Exposure (Back)

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2 Total Dose Test Setup

2.1 Test Overview

The TPS7H4012-QMLP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Condition A was used. 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 TPS7H4012-SP (QMLP) HDR exposure was performed on biased and unbiased devices in a Co-60 gamma cell at TI facility in Dallas, Texas. The unattenuated dose rate of this cell was 156.35 rads(Si)/s. The 100krad(Si) devices were annealed with the respective biased condition for 168 hours and retested. The effective dose rate for these devices was 165 mrad(Si)/s. ATE test limits are set per data sheet electrical limits based on qualification and characterization data.

2.3 Test Setup Details

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

2.3.1 Unbiased

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

2.3.2 Biased

Figure 2-1 shows the diagram for HDR exposure with biased condition.

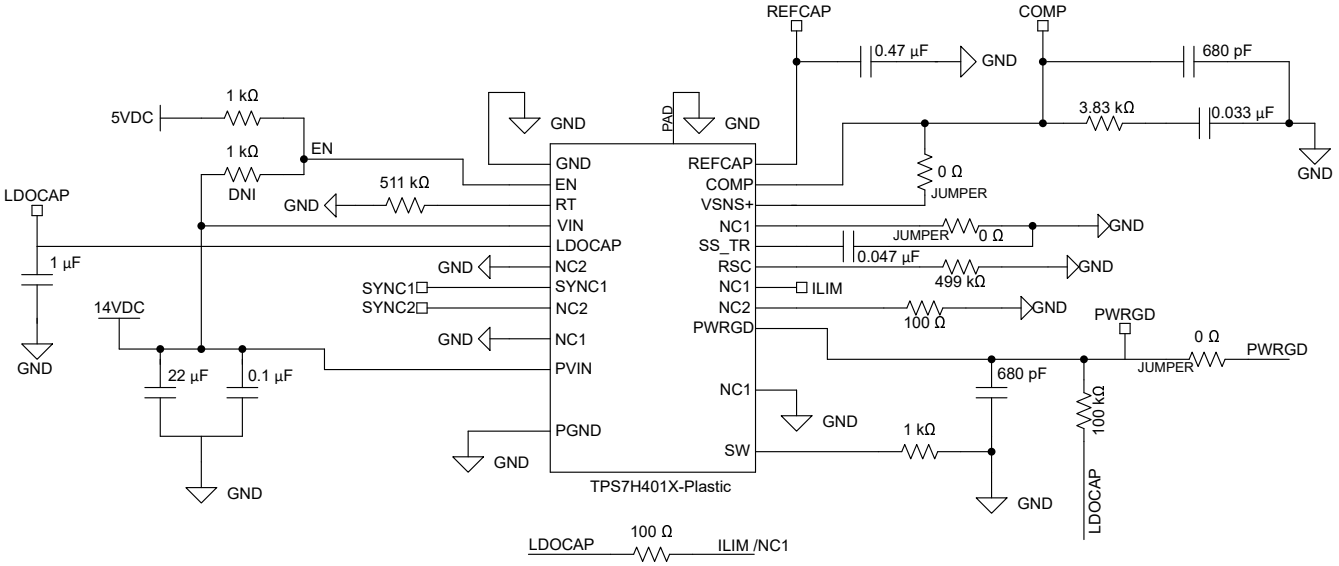

Figure 2-1. TPS7H4012-SP (QMLP) Bias Diagram

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2.4 Biased Test Configuration and Condition

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

Table 2-1. HDR: Biased Device Information

Total Samples: 30					
Exposure Levels					
3 krad(Si)	10 krad(Si)	20 krad(Si)	30 krad(Si)	50 krad(Si)	100 krad(Si)
50, 51, 52, 53, 54	60, 61, 62, 63, 64	100, 200, 300, 400, 500	1100, 1200, 1300, 1400, 1500	2100, 2200, 2300, 2400, 2500	4000, 4100, 4200, 4300, 4400

Table 2-2. HDR: Unbiased Device Information

Total Samples: 30					
Exposure Levels					
3 krad(Si)	10 krad(Si)	20 krad(Si)	30 krad(Si)	50 krad(Si)	100 krad(Si)
55, 56, 57, 58, 59	65, 66, 67, 68, 69	600, 700, 800, 900, 1000	1600, 1700, 1800, 1900, 2000	2600, 2700, 2800, 2900, 3000	4500, 4600, 4700, 4800, 4900

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3 TID Characterization Test Results

3.1 TID Characterization Summary Results

The parametric data for the TPS7H4012-SP (QMLP) passes up to 100krad(Si) HDR TID irradiation. The drifts of the electrical parameters through HDR were within the data sheet limits.

Overall, the TPS7H4012-SP (QMLP) showed a strong degree of hardness to HDR TID irradiation up to 100krad(Si) for both biased and unbiased exposure conditions. 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. The parameters that did show a greater degree of change pre- and post- irradiation were still within the electrical performance characteristics specified in the data sheet electrical parameters. Test numbers are listed only for parameters tested for TID.

See Appendix A for HDR report up to 100krad(Si).

3.2 Data Sheet Electrical Parameter Characteristics

Over 4.5V ≤ VIN ≤ 14V, PVIN = VIN, VSNS- = 0V, open loop configuration, IOUT = 0A, TA = 25°C, unless otherwise noted.

Table 3-1. Data Sheet Electrical Parameter Characteristics

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
POWER SUPPLIES AND CURRENTS									
V_{UVLOR_PVIN}	PVIN internal UVLO rising threshold			1, 2, 3	3.2	3.4	3.6	V	14.1, 14.7, 14.13, 14.19
$V_{UVLOHYST_PVIN}$	PVIN internal UVLO hysteresis			1, 2, 3	425	450	500	mV	14.3, 14.9, 14.15, 14.21
V_{UVLOR_VIN}	VIN internal UVLO rising threshold			1, 2, 3	3.4	3.6	3.8	V	14.4, 14.10, 14.16, 14.22
$V_{UVLOHYST_VIN}$	VIN internal UVLO hysteresis			1, 2, 3	140	155	170	mV	14.6, 14.12, 14.18, 14.24
I_{SHDN_VIN}	VIN shutdown supply current	V_{EN} = 0V	VIN = 4.5V	1, 2, 3		2	2.9	mA	12.1
			VIN = 14V	1, 2, 3		2	3		12.16
I_{SHDN_PVIN}	PVIN shutdown supply current	V_{EN} = 0V	PVIN = 4.5V	1, 2, 3		2.6	3.5	mA	12.2
			PVIN = 14V	1, 2, 3		3.5	4.7		12.17
I_{Q_VIN}	VIN operating quiescent current (non switching)	V_{EN} = 7V, VSNS+ = 1V		1, 2, 3		2.6	5	mA	12.3, 12.8, 12.13, 12.18
ENABLE									
$V_{EN(rising)}$	Enable rising threshold (turn-on)			1, 2, 3	0.555	0.61	0.655	V	15.3, 15.6, 15.9, 15.12
$V_{EN(falling)}$	Enable falling threshold (turn-off)			1, 2, 3	0.455	0.51	0.554	V	15.4, 15.7, 15.10, 15.13
$t_{EN(delay)}$	Enable propogation delay	EN high to SW high, SS pin open		1, 2, 3		52	100	µs	24.23, 24.69, 24.112, 24.155

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Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
$I_{EN(LKG)}$	Enable input leakage current	V_{EN} = 7V		1, 2, 3		2	100	nA	15.1, 15.15
VOLTAGE REFERENCE AND SENSE									
V_{REF}	Internal voltage reference (including error amplifier VIO)	See datasheet	T_A = –55°C	3	0.594	0.598	0.603	V	
			T_A = 25°C	1	0.596	0.6	0.603		17.4, 17.16, 17.28, 17.40
			T_A = 125°C	2	0.597	0.6	0.604		
$V_{REF(internal)}$	Internal voltage reference (without error amplifier included)	$V_{REF(internal)}$ = V_{SS_TR}		1, 2, 3	0.593	0.6	0.606	V	17.2, 17.14, 17.26, 17.38
V_{BG}	Bandgap voltage (voltage at the REFCAP pin)	C_{REFCAP} = 470nF		1, 2, 3	1.184	1.2	1.222	V	12.5, 12.10, 12.15, 12.20
$I_{VSNS+(LKG)}$	VSNS+ input leakage current	VSNS+ = 0.6V		1, 2, 3		10	30	nA	17.5, 17.17, 17.29, 17.41
ERROR AMPLIFIER									
V_{IO}	Error amplifier input offset voltage	VSNS+ = 0.6V		1, 2, 3	–2.9		2.9	mV	17.3, 17.15, 17.27, 17.39
g_{mEA}	Error amplifier transconductance	–10µA < I_{COMP} < 10µA, V_{COMP} = 1V	T_A = –55°C	11	1400	2050	2700	µS	
			T_A = 25°C	9	1200	1650	2100		18.2, 18.8, 18.14, 18.20
			T_A = 125°C	10	1000	1250	1500		
EA_{DC}	Error amplifier DC gain	VSNS+ = 0.6V				11500		V/V	
EA_{ISRC}	Error amplifier source	V_{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	µA	18.3, 18.9, 18.15, 18.21
EA_{ISNK}	Error amplifier sink	V_{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	µA	18.4, 18.10, 18.16, 18.22
EA_{Ro}	Error amplifier output resistance					7		MΩ	
EA_{BW}	Error amplifier bandwidth	Unity gain bandwidth				9		MHz	
g_{mps}	Power stage transconductance	V_{COMP} = 0.7V	TPS7H4012, HTSSOP	1, 2, 3	8	11.2	14.5	S	20.7, 20.58, 20.109, 20.160
OVERCURRENT PROTECTION									
I_{OC_HS1}	High-side switch current limit threshold 1(4)	R_{SHORT} = 100mΩ	TPS7H4012, HTSSOP	1, 2, 3		9.7	12.2	A	20.5, 20.56, 20.107, 20.158

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Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
I_{OC_HS2}	High-side switch current limit threshold 2	VIN = 12V, R_{SHORT} ≈ 4mΩ	TPS7H4012, HTSSOP	1, 2, 3		11.8		A	20.6, 20.57, 20.108, 20.159
$I_{OC_LS(sink)}$	Low-side switch sinking overcurrent threshold	T_A = –55°C		3		2		A	
		T_A = 25°C		1		1.9		A	19.14, 19.17, 19.20, 19.23
		T_A = 125°C		2		1.7		A	
$COMP_{SHDN}$	COMP shutdown voltage			1, 2, 3	1.7	1.9	2.1	V	22.2, 22.9, 22.16, 22.23
$t_{COMP(delay)}$	COMP shutdown delay			9, 10, 11		30		µs	
SOFT START AND TRACKING									
t_{SS}	Soft start time	V_{SS_TR} from 10% to 90%, $V_{OUT(set)}$ = 3.3V	CSS = 5.6nF	9, 10, 11		1.5		ms	22.5, 22.12, 22.19, 22.26
			CSS = 22nF	9, 10, 11	4.7	5.8	7.3		22.6, 22.13, 22.20, 22.27
			CSS = 100nF	9, 10, 11		24.7			22.7, 22.14, 22.21, 22.28
$R_{SS(discharge)}$	Soft start discharge pull-down resistor			1, 2, 3	200	442	700	Ω	22.3, 22.10, 22.17, 22.24
$SS_{startup}$	Maximum voltage on SS before startup(5)					20		mV	22.4, 22.11, 22.18, 22.25
SLOPE COMPENSATION									
SC	Slope compensation, TPS74012	f_{SW} = 100kHz, VIN = 12V	RSC = 499kΩ			–0.8		A/µs	
			RSC = 1.5MΩ			–0.3			
		f_{SW} = 500kHz, VIN = 12V	RSC = 100kΩ			–4.2		A/µs	
			RSC = 499kΩ			–1.4			
			RSC = 1.5MΩ			–1			
		f_{SW} = 1000kHz, VIN = 12V	RSC = 100kΩ			–5.5		A/µs	
			RSC = 499kΩ			–2.4			
			RSC = 1.5MΩ			–2.3			
MINIMUM ON TIME AND DEAD TIME									

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Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
$t_{on(min)}$	Minimum on time	50% to 50% of VIN, I_{SW} = 2A	VIN = 4.5V	9, 10, 11		210	235	ns	24.22
			VIN = 5V	9, 10, 11		213	250		24.68
			VIN = 12V	9, 10, 11		199	250		24.11
			VIN = 14V	9, 10, 11		199	250		24.15
$t_{off(min)}$	Minimum off time	I_{SW} = 2A				306		ns	
t_{dead}	Dead time					70		ns	
SWITCHING FREQUENCY AND SYNCHRONIZATION									
f_{SW}	RT programmed switching frequency	R_{RT} = 511kΩ		4, 5, 6	90	100	120	kHz	24.12, 24.58, 24.101, 24.144
		R_{RT} = 90.9kΩ		4, 5, 6	450	500	550	kHz	24.19, 24.65, 24.108, 24.151
		R_{RT} = 40.2kΩ	VIN = 4.5V	4, 5, 6	850	1000	1150	kHz	24.2
			5 ≤ VIN ≤ 14	4, 5, 6	870	1000	1170		24.66, 24.109, 24.152
t_{SYNC_D}	SYNC1 to SW delay	SYNC1 input, see Datasheet	VIN = 4.5V	9, 10, 11	150	256	390	ns	24.3
			5V ≤ VIN ≤ 14V	9, 10, 11	160	240	310		24.49, 24.92, 24.135
			VIN = 12V, IOUT = 3A			246			
$V_{SYNC1(IH)}$	SYNC1 input high threshold			1, 2, 3			1.7	V	24.4, 24.50, 24.93, 24.136
$V_{SYNC1(IL)}$	SYNC1 input low threshold			1, 2, 3	0.7			V	24.5, 24.51, 24.94, 24.137
f_{SYNC}	SYNC1 input frequency range			4, 5, 6	100		1000	kHz	24.1, 24.6, 24.7, 24.47, 24.52, 24.53, 24.90, 24.95, 24.96, 24.133, 24.138, 24.139

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Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
D_{SYNC}	SYNC1 input duty cycle range	External clock duty cycle		4, 5, 6	40%		60%		24.1, 24.6, 24.7, 24.47, 24.52, 24.53, 24.90, 24.95, 24.96, 24.133, 24.138, 24.139
$t_{CLK_E_I}$	External clock to internal clock detection time	RT populated		9, 10, 11		2	5	$(1/f_{sw})$ s	24.10, 24.56, 24.99, 24.142
$t_{CLK_I_E}$	Internal clock to external clock detection time	RT populated		9, 10, 11		1	2	$(1/f_{sw})$ s	24.11, 24.57, 24.100, 24.143
POWER GOOD AND THERMAL SHUTDOWN									
$PWRGD_{LOW_F\%}$	PWRGD falling threshold (fault), low	Threshold for PWRGD (VSNS+ as percent of V_{REF})	VSNS+ falling	1, 2, 3	89%	92%	95%		23.2, 23.10, 23.17, 23.24
$PWRGD_{LOW_R\%}$	PWRGD rising threshold (good), low	Threshold for PWRGD (VSNS+ as percent of V_{REF})	VSNS+ rising	1, 2, 3	92%	95%	98%		23.3, 23.11, 23.18, 23.25
$PWRGD_{HIGH_R\%}$	PWRGD rising threshold (fault), high	Threshold for PWRGD (VSNS+ as percent of V_{REF})	VSNS+ rising	1, 2, 3	105%	108%	112%		23.4, 23.12, 23.19, 23.26
$PWRGD_{HIGH_F\%}$	PWRGD falling threshold (good), high	Threshold for PWRGD (VSNS+ as percent of V_{REF})	VSNS+ falling	1, 2, 3	102%	105%	109%		23.5, 23.13, 23.20, 23.27
$I_{PWRGD(LKG)}$	Output high leakage	VSNS+ = V_{REF}, V_{PWRGD} = 7V		1, 2, 3		50	500	nA	23.6, 23.14, 23.21, 23.28
$V_{PWRGD(OL)}$	Power good output low	$I_{PWRGD(SINK)}$ = 0mA to 2mA		1, 2, 3		250	300	mV	23.7, 23.15, 23.22, 23.29

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Table 3-1. Data Sheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
V_{INMIN_PWRGD}	Minimum VIN for valid PWRGD output	Measured when V_{PWRGD} ≤ 0.5V at 100µA		1, 2, 3		1	2	V	23.1
$T_{SD(enter)}$	Thermal shutdown enter temperature					175		°C	
$T_{SD(exit)}$	Thermal shutdown exit temperature					140		°C	
$T_{SD(HYS)}$	Thermal shutdown hysteresis					35		°C	
MOSFET									
$R_{DS_ON_HS}$	High-side switch resistance at I_{HS} = 6A, TPS7H4012, HTSSOP	PVIN = 4.5V	T_A = –55°C	3		29	42	mΩ	
			T_A = 25°C	1		37	48		20.4
			T_A = 125°C	2		47	63		
		5V ≤ PVIN ≤ 14V	T_A = –55°C	3		26	38		
			T_A = 25°C	1		33	46		20.55, 20.106, 20.157
			T_A = 125°C	2		41	56		
$R_{DS_ON_LS}$	Low-side switch resistance at I_{LS} = 6A, TPS7H4012, HTSSOP	PVIN = 4.5V	T_A = –55°C	3		20	31	mΩ	
			T_A = 25°C	1		28	39		21.26
			T_A = 125°C	2		41	50		
		5V ≤ PVIN ≤ 14V	T_A = –55°C	3		20	29		
			T_A = 25°C	1		27	37		21.29, 21.32, 21.35
			T_A = 125°C	2		39	48		

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4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, *TPS7H401x-SP and TPS7H401x-SEP 4.5V to 14V Input 3A and 6A Radiation Hardened Synchronous Buck Converter*, data sheet.
- Texas Instruments, *TPS7H4012-SP (TPS7H4012EVM-CVAL) Evaluation Module User's Guide*, user's guide.

4.2 Reference Documents

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

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A Appendix A: HDR Results

This appendix contains the HDR TID report data. The following decoder serves as a reference guide for the test parameters shown in the appendix:

Please reference Table A-1 below for an example implementation of this decoder.

Table A-1. Decoder Implementation, Example Test: IDD|STATIC/VIN/4.5////@VIN_SHDN_CURR_4V

Test Category	Header	Pin Name	Input Voltage	Load Current	Frequency Set Resistor Vlue	Condition	Specification Identifier
IDD	STATIC	VIN	4.5V	N/A	N/A	N/A	@VIN_SHDN_CURR_4V

Note that the absence of identifiers in a parameter name indicates that the identifier is not applicable. For instance, this test does not have the device driving an external load, and thus no load current is specified.

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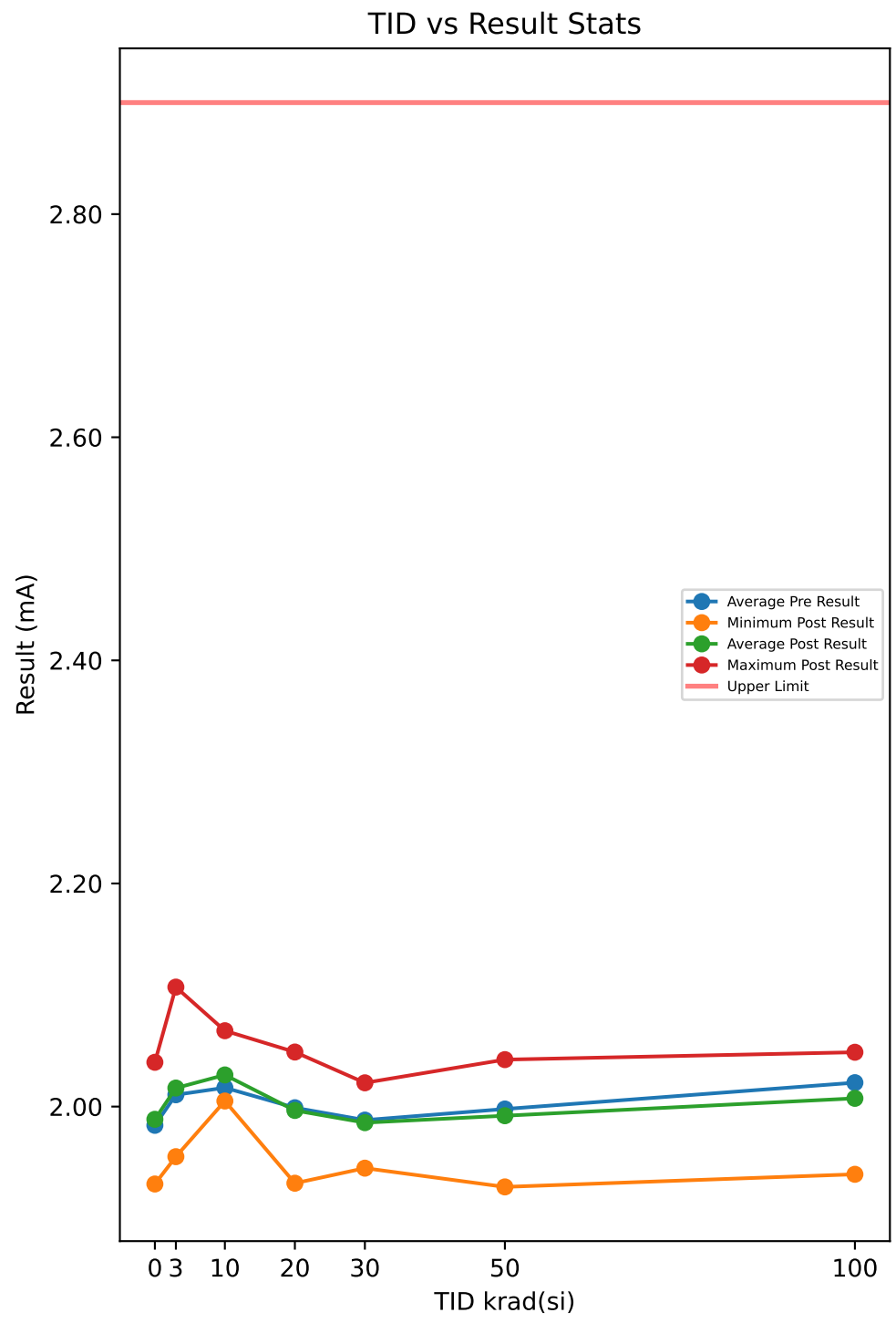
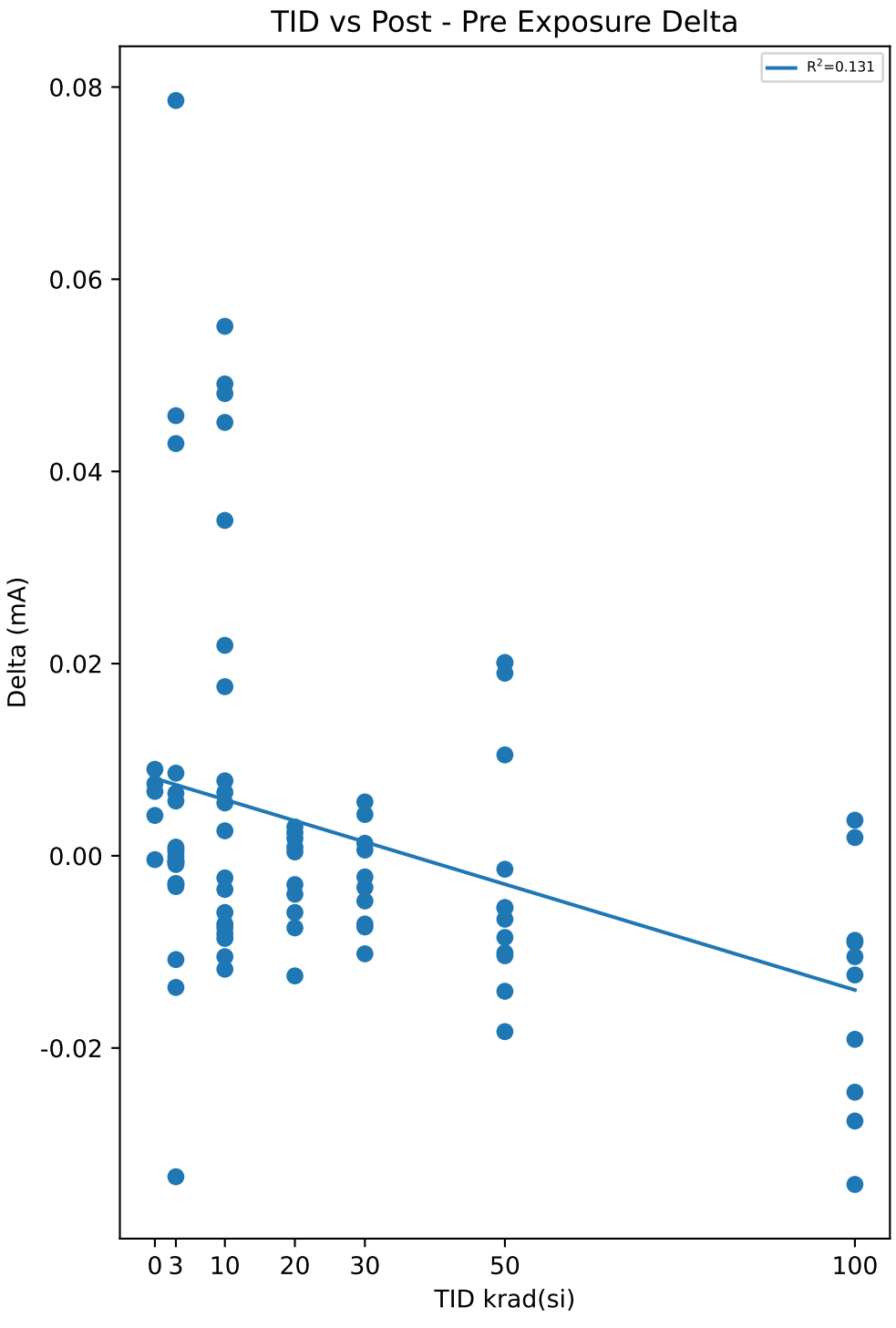
Device Test: 12.1 IDD|STATIC/VIN/4.5////@VIN_SHDN_CURR_4V





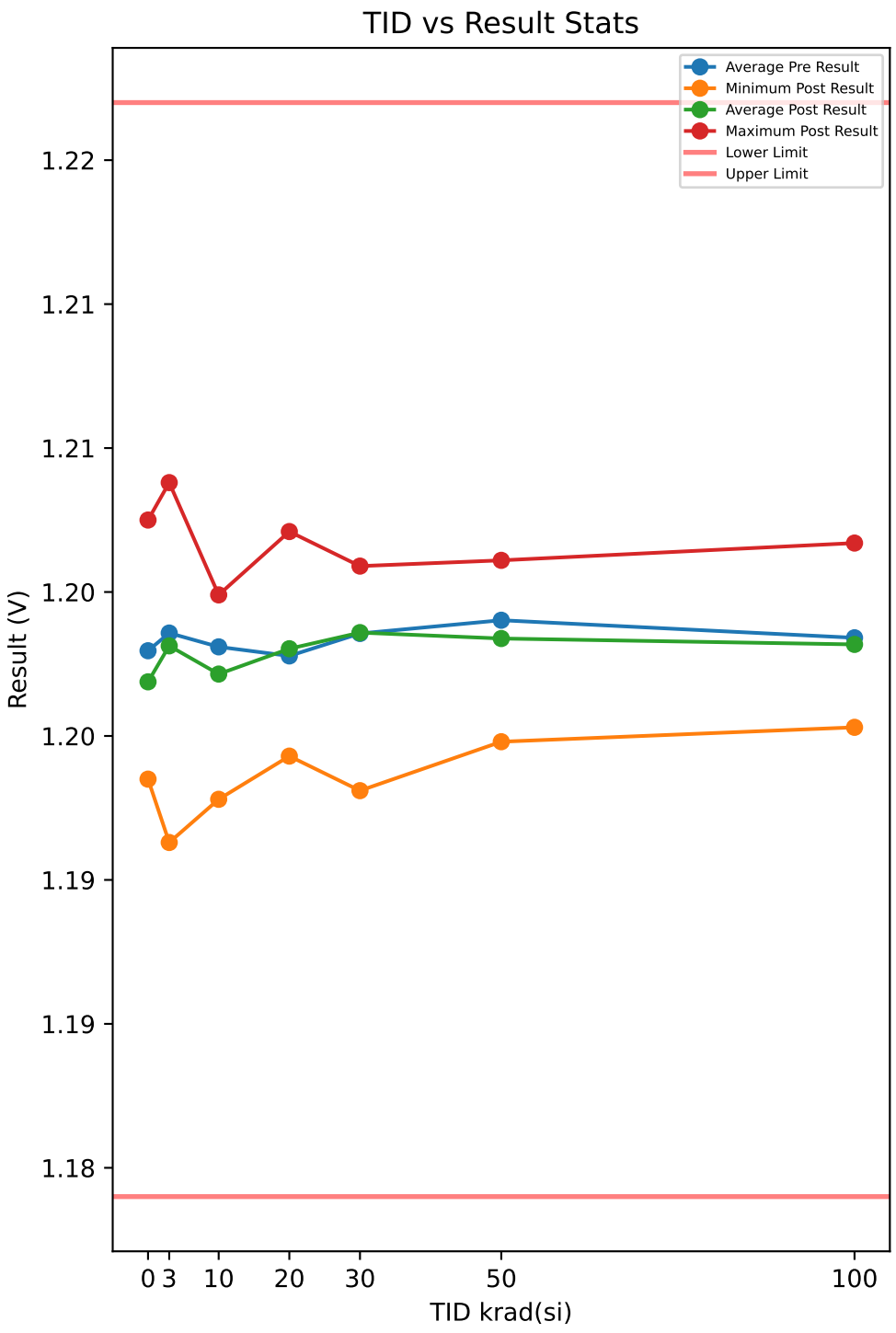
Test Results (Upper Limit = 2.9 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.0036	1.9899	-0.0137
51	3	Biased	2.0249	2.0335	0.0086
52	3	Biased	2.0285	2.1071	0.0786
53	3	Biased	1.9536	1.9965	0.0429
54	3	Biased	1.9894	1.9888	-0.0006
55	3	Unbiased	1.9659	1.9551	-0.0108
56	3	Unbiased	2.0208	2.0265	0.0057
57	3	Unbiased	2.0017	2.0475	0.0458
58	3	Unbiased	2.0516	2.0182	-0.0334
59	3	Unbiased	1.9965	2.003	0.0065
60	10	Biased	2.0008	2.0086	0.0078
61	10	Biased	2.0245	2.0421	0.0176
62	10	Biased	1.9599	2.005	0.0451
63	10	Biased	1.9758	2.0309	0.0551
64	10	Biased	1.9634	2.0115	0.0481
65	10	Unbiased	1.9746	2.0095	0.0349
66	10	Unbiased	1.9657	2.0148	0.0491
67	10	Unbiased	2.0574	2.0456	-0.0118
68	10	Unbiased	2.0461	2.068	0.0219
69	10	Unbiased	2.0411	2.0477	0.0066
100	20	Biased	2.009	2.0094	0.0004
200	20	Biased	2.0465	2.0489	0.0024
300	20	Biased	1.9706	1.9581	-0.0125
400	20	Biased	2.0404	2.0434	0.003
500	20	Biased	2.0202	2.022	0.0018
600	20	Unbiased	1.9343	1.9313	-0.003
700	20	Unbiased	2.0084	2.0044	-0.004
800	20	Unbiased	1.9796	1.9805	0.0009
900	20	Unbiased	2.0117	2.0042	-0.0075
1000	20	Unbiased	1.9689	1.963	-0.0059
1100	30	Biased	2.0149	2.0155	0.0006
1200	30	Biased	1.9868	1.9835	-0.0033
1300	30	Biased	1.9744	1.9787	0.0043
1400	30	Biased	1.9696	1.9752	0.0056
1500	30	Biased	1.9435	1.9448	0.0013
1600	30	Unbiased	1.9806	1.9784	-0.0022
1700	30	Unbiased	2.026	2.0213	-0.0047
1800	30	Unbiased	1.9884	1.9813	-0.0071
1900	30	Unbiased	2.0112	2.001	-0.0102
2000	30	Unbiased	1.9835	1.9761	-0.0074
2100	50	Biased-84Hr-Anneal	1.9752	1.9953	0.0201
2200	50	Biased-84Hr-Anneal	1.9304	1.9494	0.019
2300	50	Biased-84Hr-Anneal	2.0137	2.0123	-0.0014
2400	50	Biased-84Hr-Anneal	2.0252	2.0357	0.0105
2500	50	Biased-84Hr-Anneal	1.9989	1.9923	-0.0066
2600	50	Unbiased	2.0506	2.0421	-0.0085
2700	50	Unbiased	2.0255	2.0151	-0.0104
2800	50	Unbiased	2.0486	2.0345	-0.0141
2900	50	Unbiased	1.9463	1.928	-0.0183
3000	50	Unbiased	1.9639	1.9538	-0.0101
4000	100	Biased-168Hr-Anneal	2.045	2.0487	0.0037
4100	100	Biased-168Hr-Anneal	2.03	2.0319	0.0019
4200	100	Biased-168Hr-Anneal	1.9829	1.9705	-0.0124
4300	100	Biased-168Hr-Anneal	1.9639	1.9393	-0.0246
4400	100	Biased-168Hr-Anneal	2.0499	2.0409	-0.009
4500	100	Unbiased-168Hr-Anneal	1.9991	1.9903	-0.0088
4600	100	Unbiased-168Hr-Anneal	2.0385	2.0109	-0.0276
4700	100	Unbiased-168Hr-Anneal	2.0328	2.0137	-0.0191
4800	100	Unbiased-168Hr-Anneal	2.0462	2.012	-0.0342
4900	100	Unbiased-168Hr-Anneal	2.0261	2.0156	-0.0105
9300	0	CORRELATION	2.0033	2.0075	0.0042
9400	0	CORRELATION	1.9216	1.9306	0.009
9500	0	CORRELATION	1.9724	1.9791	0.0067
9600	0	CORRELATION	1.9786	1.9861	0.0075
9700	0	CORRELATION	2.0401	2.0397	-0.0004

Test Statistics (mA)

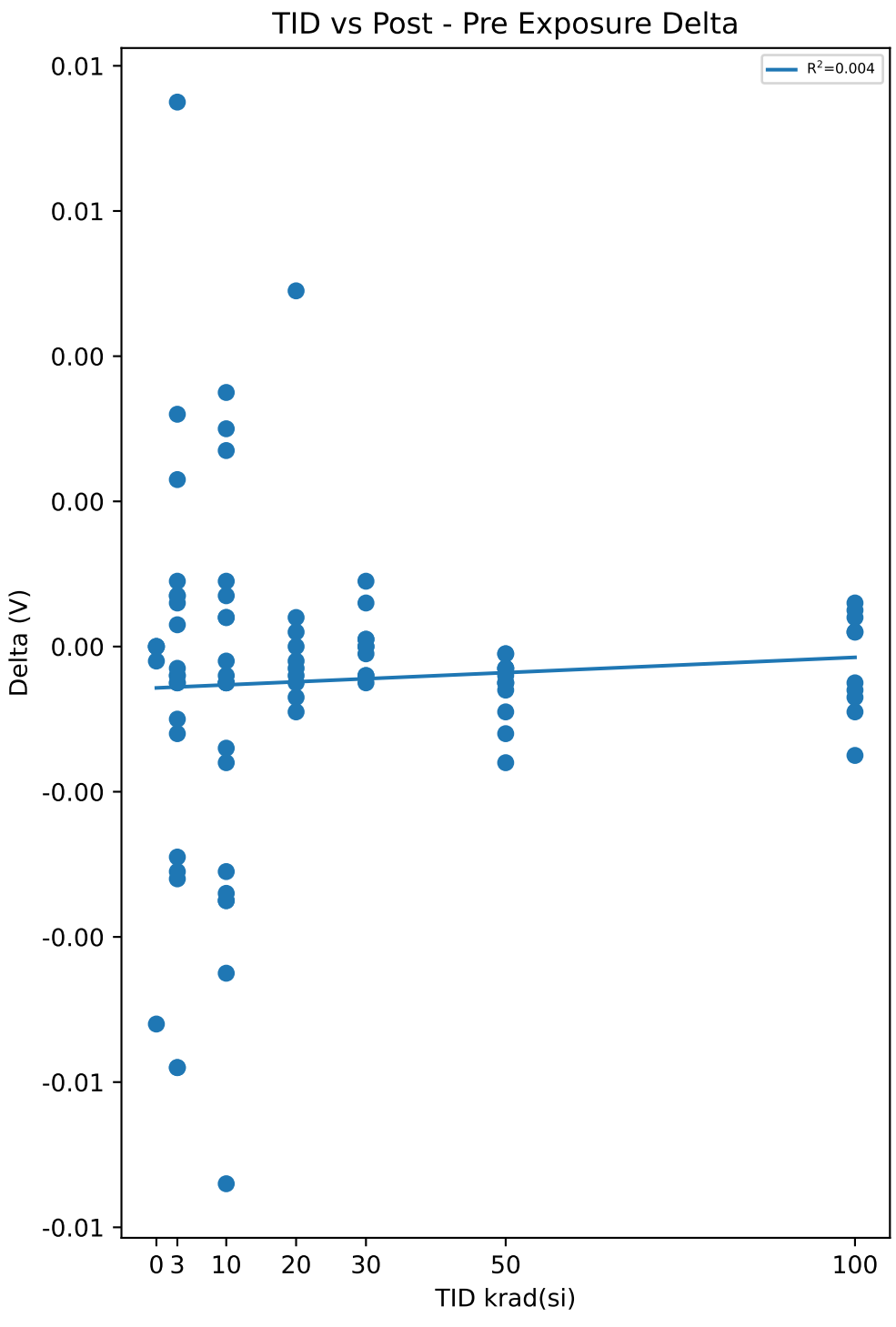
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9216	1.9832	2.0401	0.043514	1.9306	1.9886	2.0397	0.04009	-0.0004	0.0054	0.009	0.003679
3	1.9536	2.0036	2.0516	0.029534	1.9551	2.0166	2.1071	0.04135	-0.0334	0.01296	0.0786	0.033342
10	1.9599	2.0009	2.0574	0.038088	2.005	2.0284	2.068	0.021597	-0.0118	0.02744	0.0551	0.0224
20	1.9343	1.999	2.0465	0.035031	1.9313	1.9965	2.0489	0.037988	-0.0125	-0.00244	0.003	0.0050744
30	1.9435	1.9879	2.026	0.024235	1.9448	1.9856	2.0213	0.022088	-0.0102	-0.00231	0.0056	0.0052235
50	1.9304	1.9978	2.0506	0.042158	1.928	1.9959	2.0421	0.040006	-0.0183	-0.00198	0.0201	0.013734
100	1.9639	2.0214	2.0499	0.029417	1.9393	2.0074	2.0487	0.033099	-0.0342	-0.01406	0.0037	0.012312

Device Test: 12.10 LEVEL|STATIC/REFCAP/5////@VBANDGAP



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

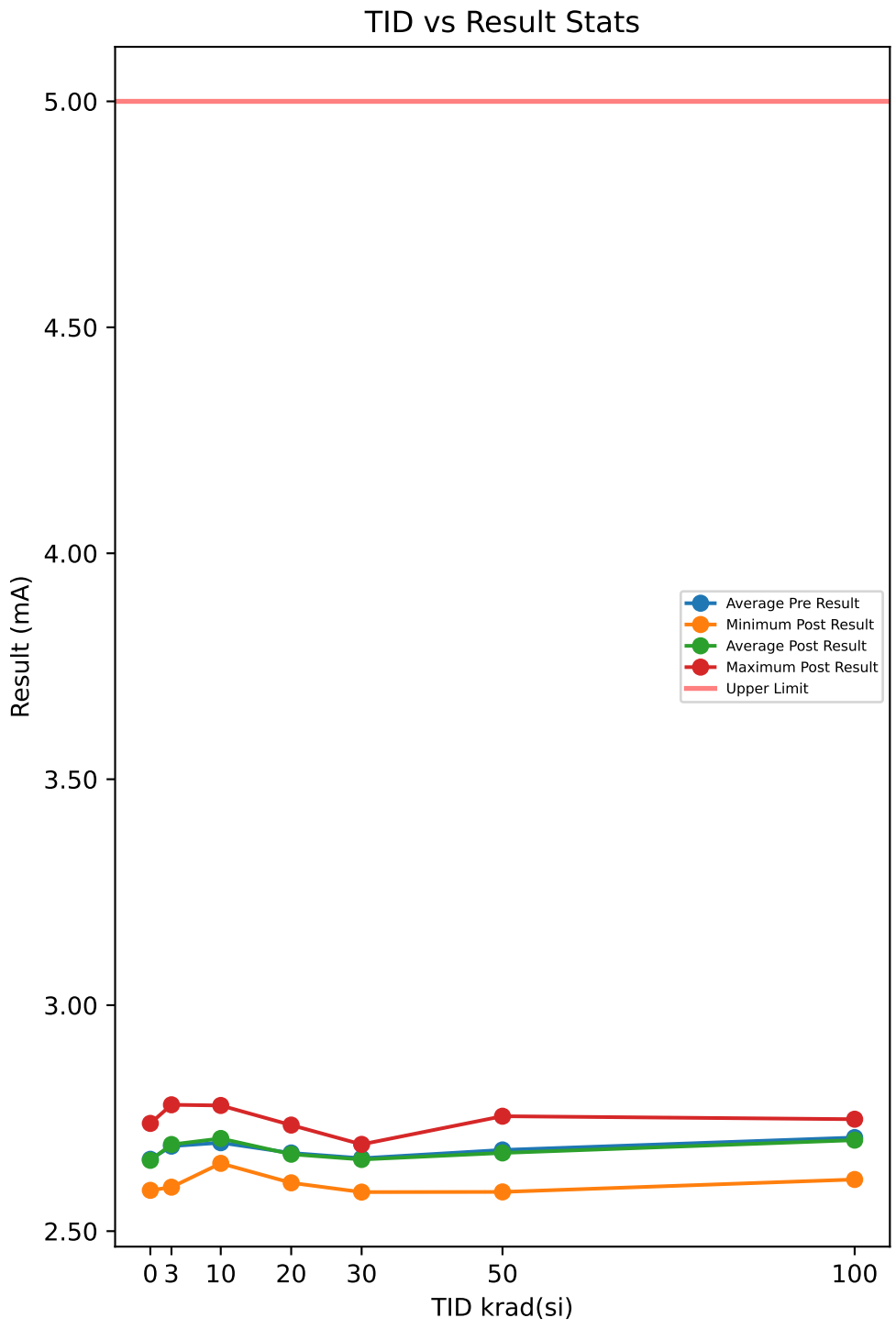
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.2028	1.2018	-0.001
51	3	Biased	1.2021	1.1963	-0.0058
52	3	Biased	1.2023	1.2019	-0.0004
53	3	Biased	1.2048	1.2057	0.0009
54	3	Biased	1.2034	1.2037	0.0003
55	3	Unbiased	1.2036	1.2068	0.0032
56	3	Unbiased	1.2054	1.1996	-0.0058
57	3	Unbiased	1.204	1.2028	-0.0012
58	3	Unbiased	1.2016	1.2039	0.0023
59	3	Unbiased	1.2013	1.2088	0.0075
60	10	Biased	1.2082	1.2008	-0.0074
61	10	Biased	1.2049	1.2044	-0.0005
62	10	Biased	1.2063	1.2049	-0.0014
63	10	Biased	1.204	1.2038	-0.0002
64	10	Biased	1.2015	1.198	-0.0035
65	10	Unbiased	1.199	1.2017	0.0027
66	10	Unbiased	1.2023	1.1978	-0.0045
67	10	Unbiased	1.2006	1.2036	0.003
68	10	Unbiased	1.2035	1.2019	-0.0016
69	10	Unbiased	1.2011	1.2046	0.0035
100	20	Biased	1.2003	1.2052	0.0049
200	20	Biased	1.2078	1.2071	-0.0007
300	20	Biased	1.1996	1.1994	-0.0002
400	20	Biased	1.2039	1.2034	-0.0005
500	20	Biased	1.2049	1.2049	0
600	20	Unbiased	1.2035	1.2037	0.0002
700	20	Unbiased	1.1989	1.1993	0.0004
800	20	Unbiased	1.2023	1.2019	-0.0004
900	20	Unbiased	1.2022	1.2019	-0.0003
1000	20	Unbiased	1.2044	1.2035	-0.0009
1100	30	Biased	1.2024	1.2024	0
1200	30	Biased	1.1986	1.1981	-0.0005
1300	30	Biased	1.2033	1.2039	0.0006
1400	30	Biased	1.2048	1.2049	0.0001
1500	30	Biased	1.2044	1.2043	-0.0001
1600	30	Unbiased	1.2059	1.2055	-0.0004
1700	30	Unbiased	1.2054	1.205	-0.0004
1800	30	Unbiased	1.2014	1.2015	0.0001
1900	30	Unbiased	1.205	1.2059	0.0009
2000	30	Unbiased	1.2044	1.2044	0
2100	50	Biased-84Hr-Anneal	1.2037	1.2036	-0.0001
2200	50	Biased-84Hr-Anneal	1.203	1.2026	-0.0004
2300	50	Biased-84Hr-Anneal	1.2034	1.2022	-0.0012
2400	50	Biased-84Hr-Anneal	1.2055	1.2046	-0.0009
2500	50	Biased-84Hr-Anneal	1.2053	1.2047	-0.0006
2600	50	Unbiased	1.2066	1.2061	-0.0005
2700	50	Unbiased	1.2048	1.2045	-0.0003
2800	50	Unbiased	1.2041	1.2036	-0.0005
2900	50	Unbiased	1.2014	1.1998	-0.0016
3000	50	Unbiased	1.2024	1.2019	-0.0005
4000	100	Biased-168Hr-Anneal	1.2046	1.2031	-0.0015
4100	100	Biased-168Hr-Anneal	1.2061	1.2067	0.0006
4200	100	Biased-168Hr-Anneal	1.201	1.2003	-0.0007
4300	100	Biased-168Hr-Anneal	1.2015	1.2006	-0.0009
4400	100	Biased-168Hr-Anneal	1.2023	1.2018	-0.0005
4500	100	Unbiased-168Hr-Anneal	1.2045	1.2047	0.0002
4600	100	Unbiased-168Hr-Anneal	1.2039	1.2043	0.0004
4700	100	Unbiased-168Hr-Anneal	1.2041	1.2043	0.0002
4800	100	Unbiased-168Hr-Anneal	1.2029	1.2023	-0.0006
4900	100	Unbiased-168Hr-Anneal	1.2032	1.2037	0.0005
9300	0	CORRELATION	1.2054	1.2002	-0.0052
9400	0	CORRELATION	1.2008	1.2008	0
9500	0	CORRELATION	1.2024	1.2024	0
9600	0	CORRELATION	1.1987	1.1985	-0.0002
9700	0	CORRELATION	1.2075	1.2075	0



Test Statistics (V)

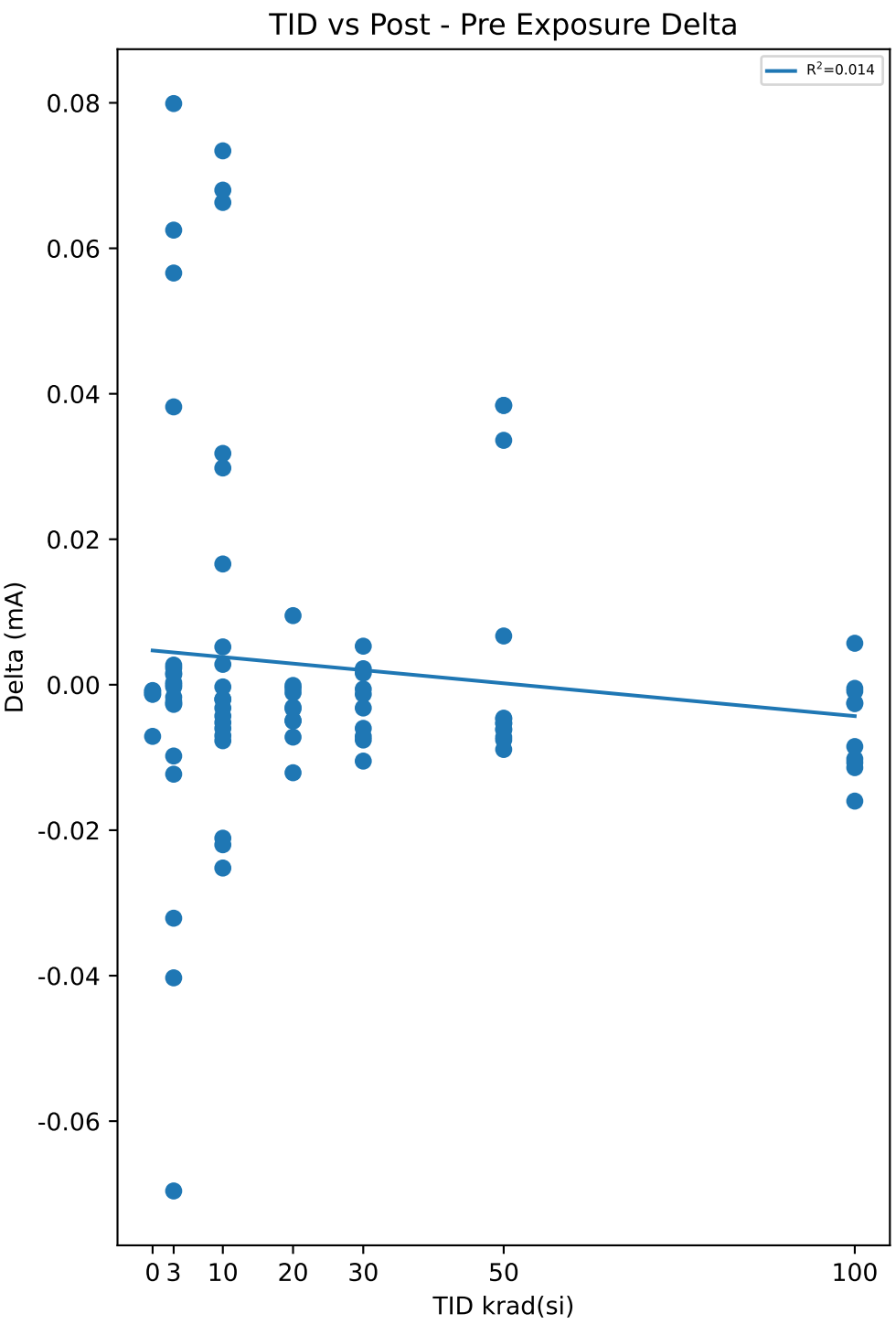
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1987	1.203	1.2075	0.0035246	1.1985	1.2019	1.2075	0.0034376	-0.0052	-0.00108	0	0.0023048
3	1.2013	1.2031	1.2054	0.0013557	1.1963	1.2031	1.2088	0.0035846	-0.0058	0	0.0075	0.0039799
10	1.199	1.2031	1.2082	0.0028029	1.1978	1.2022	1.2049	0.002618	-0.0074	-0.00099	0.0035	0.0035089
20	1.1989	1.2028	1.2078	0.0027075	1.1993	1.203	1.2071	0.002477	-0.0009	0.00025	0.0049	0.0016808
30	1.1986	1.2036	1.2059	0.0022252	1.1981	1.2036	1.2059	0.0023539	-0.0005	3e-05	0.0009	0.00044234
50	1.2014	1.204	1.2066	0.0015676	1.1998	1.2034	1.2061	0.0017946	-0.0016	-0.00066	-0.0001	0.00045019
100	1.201	1.2034	1.2061	0.0015474	1.2003	1.2032	1.2067	0.0019753	-0.0015	-0.00023	0.0006	0.00070561

Device Test: 12.13 IQ|STATIC/VIN/12////@IQ_VIN



Test Results (Upper Limit = 5.0 (mA))

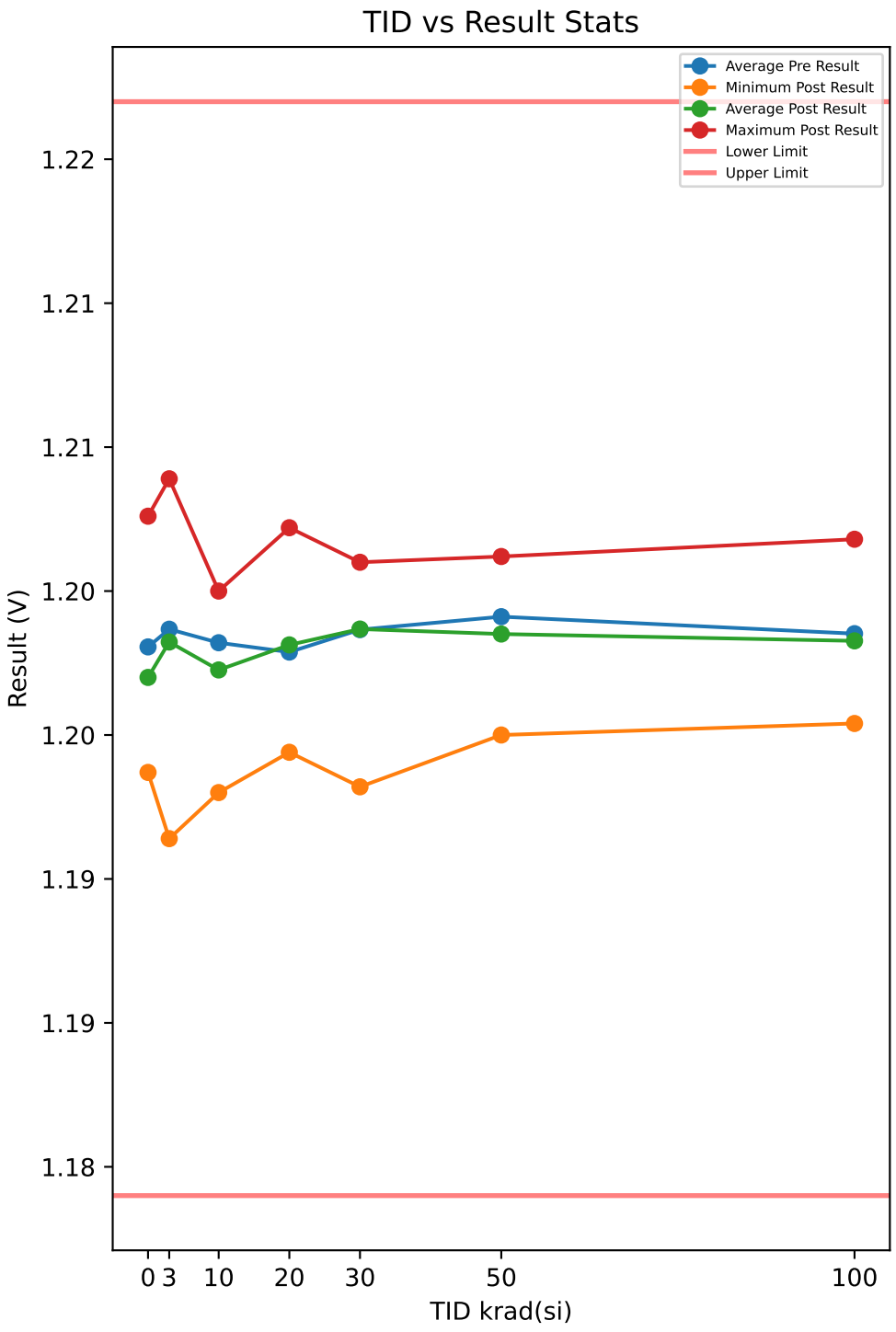
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.6779	2.6458	-0.0321
51	3	Biased	2.6849	2.7231	0.0382
52	3	Biased	2.723	2.7796	0.0566
53	3	Biased	2.6128	2.6753	0.0625
54	3	Biased	2.651	2.6412	-0.0098
55	3	Unbiased	2.6376	2.5973	-0.0403
56	3	Unbiased	2.7271	2.7245	-0.0026
57	3	Unbiased	2.6823	2.7622	0.0799
58	3	Unbiased	2.7726	2.703	-0.0696
59	3	Unbiased	2.6773	2.665	-0.0123
60	10	Biased	2.6962	2.6742	-0.022
61	10	Biased	2.7419	2.7167	-0.0252
62	10	Biased	2.6334	2.65	0.0166
63	10	Biased	2.6365	2.7099	0.0734
64	10	Biased	2.6422	2.672	0.0298
65	10	Unbiased	2.642	2.6738	0.0318
66	10	Unbiased	2.6451	2.7114	0.0663
67	10	Unbiased	2.7619	2.7408	-0.0211
68	10	Unbiased	2.7101	2.7781	0.068
69	10	Unbiased	2.7296	2.7236	-0.006
100	20	Biased	2.6686	2.6781	0.0095
200	20	Biased	2.7144	2.7143	-0.0001
300	20	Biased	2.6163	2.6113	-0.005
400	20	Biased	2.738	2.7347	-0.0033
500	20	Biased	2.7018	2.6969	-0.0049
600	20	Unbiased	2.6141	2.6069	-0.0072
700	20	Unbiased	2.6708	2.6677	-0.0031
800	20	Unbiased	2.6553	2.6548	-0.0005
900	20	Unbiased	2.7221	2.71	-0.0121
1000	20	Unbiased	2.6284	2.6273	-0.0011
1100	30	Biased	2.6904	2.692	0.0016
1200	30	Biased	2.6684	2.6608	-0.0076
1300	30	Biased	2.6395	2.6417	0.0022
1400	30	Biased	2.6534	2.6587	0.0053
1500	30	Biased	2.587	2.5864	-0.0006
1600	30	Unbiased	2.6649	2.6617	-0.0032
1700	30	Unbiased	2.6986	2.6915	-0.0071
1800	30	Unbiased	2.6437	2.6424	-0.0013
1900	30	Unbiased	2.6863	2.6758	-0.0105
2000	30	Unbiased	2.6808	2.6748	-0.006
2100	50	Biased-84Hr-Anneal	2.6306	2.669	0.0384
2200	50	Biased-84Hr-Anneal	2.5808	2.6144	0.0336
2300	50	Biased-84Hr-Anneal	2.7199	2.7152	-0.0047
2400	50	Biased-84Hr-Anneal	2.7368	2.7435	0.0067
2500	50	Biased-84Hr-Anneal	2.6574	2.6502	-0.0072
2600	50	Unbiased	2.7619	2.7543	-0.0076
2700	50	Unbiased	2.7283	2.7221	-0.0062
2800	50	Unbiased	2.7574	2.7485	-0.0089
2900	50	Unbiased	2.5914	2.5868	-0.0046
3000	50	Unbiased	2.6321	2.626	-0.0061
4000	100	Biased-168Hr-Anneal	2.742	2.7477	0.0057
4100	100	Biased-168Hr-Anneal	2.7269	2.726	-0.0009
4200	100	Biased-168Hr-Anneal	2.6534	2.6529	-0.0005
4300	100	Biased-168Hr-Anneal	2.6303	2.6143	-0.016
4400	100	Biased-168Hr-Anneal	2.7368	2.7342	-0.0026
4500	100	Unbiased-168Hr-Anneal	2.6874	2.6767	-0.0107
4600	100	Unbiased-168Hr-Anneal	2.6958	2.6873	-0.0085
4700	100	Unbiased-168Hr-Anneal	2.7166	2.7064	-0.0102
4800	100	Unbiased-168Hr-Anneal	2.746	2.7346	-0.0114
4900	100	Unbiased-168Hr-Anneal	2.7357	2.7332	-0.0025
9300	0	CORRELATION	2.6743	2.6672	-0.0071
9400	0	CORRELATION	2.5911	2.5903	-0.0008
9500	0	CORRELATION	2.6361	2.6348	-0.0013
9600	0	CORRELATION	2.6536	2.6527	-0.0009
9700	0	CORRELATION	2.7397	2.7384	-0.0013



Test Statistics (mA)

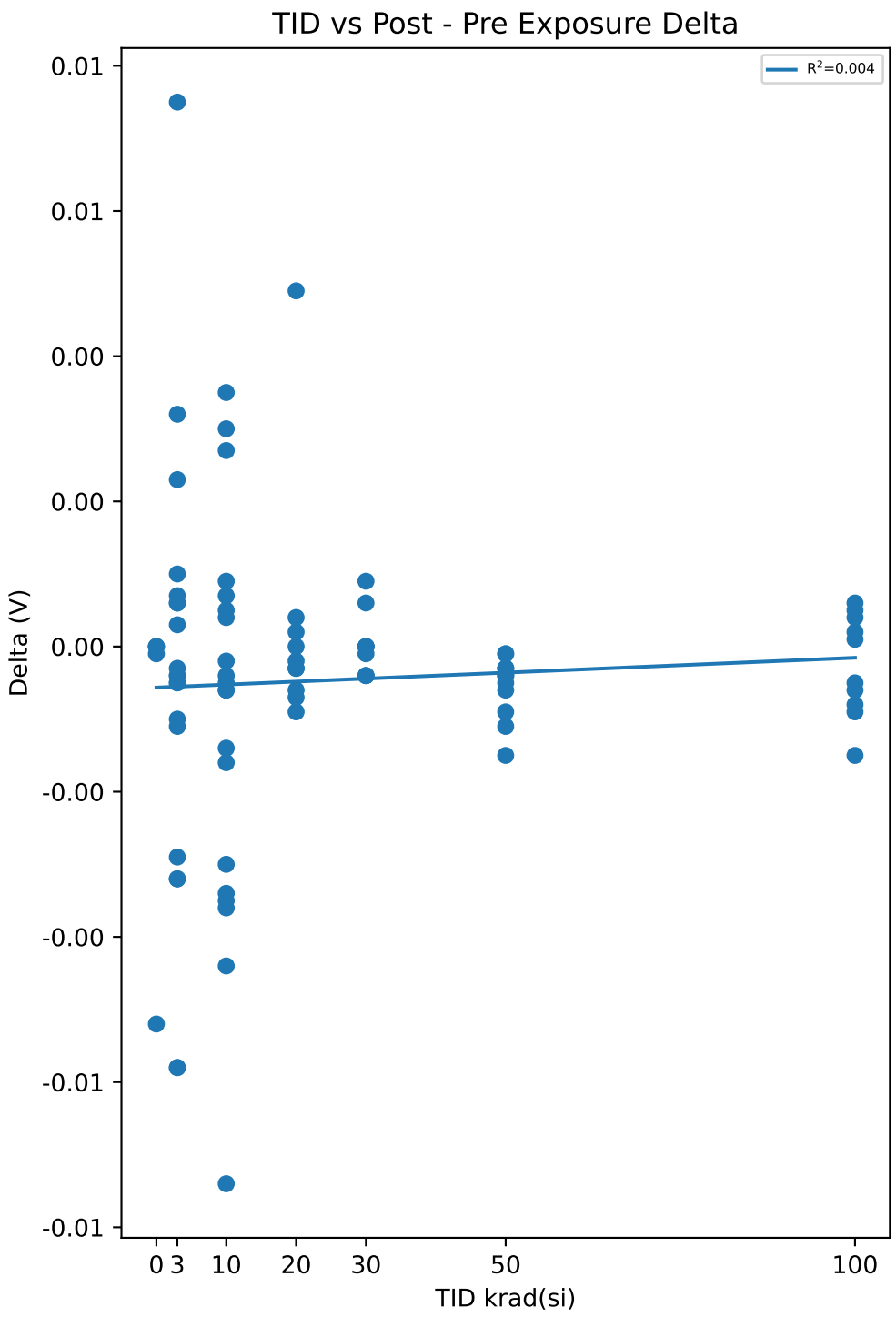
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5911	2.659	2.7397	0.054568	2.5903	2.6567	2.7384	0.054059	-0.0071	-0.00228	-0.0008	0.0027041
3	2.6128	2.6846	2.7726	0.046692	2.5973	2.6917	2.7796	0.05719	-0.0696	0.00705	0.0799	0.049675
10	2.6334	2.6839	2.7619	0.049633	2.65	2.705	2.7781	0.03831	-0.0252	0.02116	0.0734	0.039023
20	2.6141	2.673	2.738	0.044957	2.6069	2.6702	2.7347	0.044752	-0.0121	-0.00278	0.0095	0.0055996
30	2.587	2.6613	2.6986	0.032787	2.5864	2.6586	2.692	0.030789	-0.0105	-0.00272	0.0053	0.0050356
50	2.5808	2.6797	2.7619	0.068948	2.5868	2.683	2.7543	0.061537	-0.0089	0.00334	0.0384	0.017778
100	2.6303	2.7071	2.746	0.039737	2.6143	2.7013	2.7477	0.04309	-0.016	-0.00576	0.0057	0.0065957

Device Test: 12.15 LEVEL|STATIC/REFCAP/12////@VBANDGAP



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

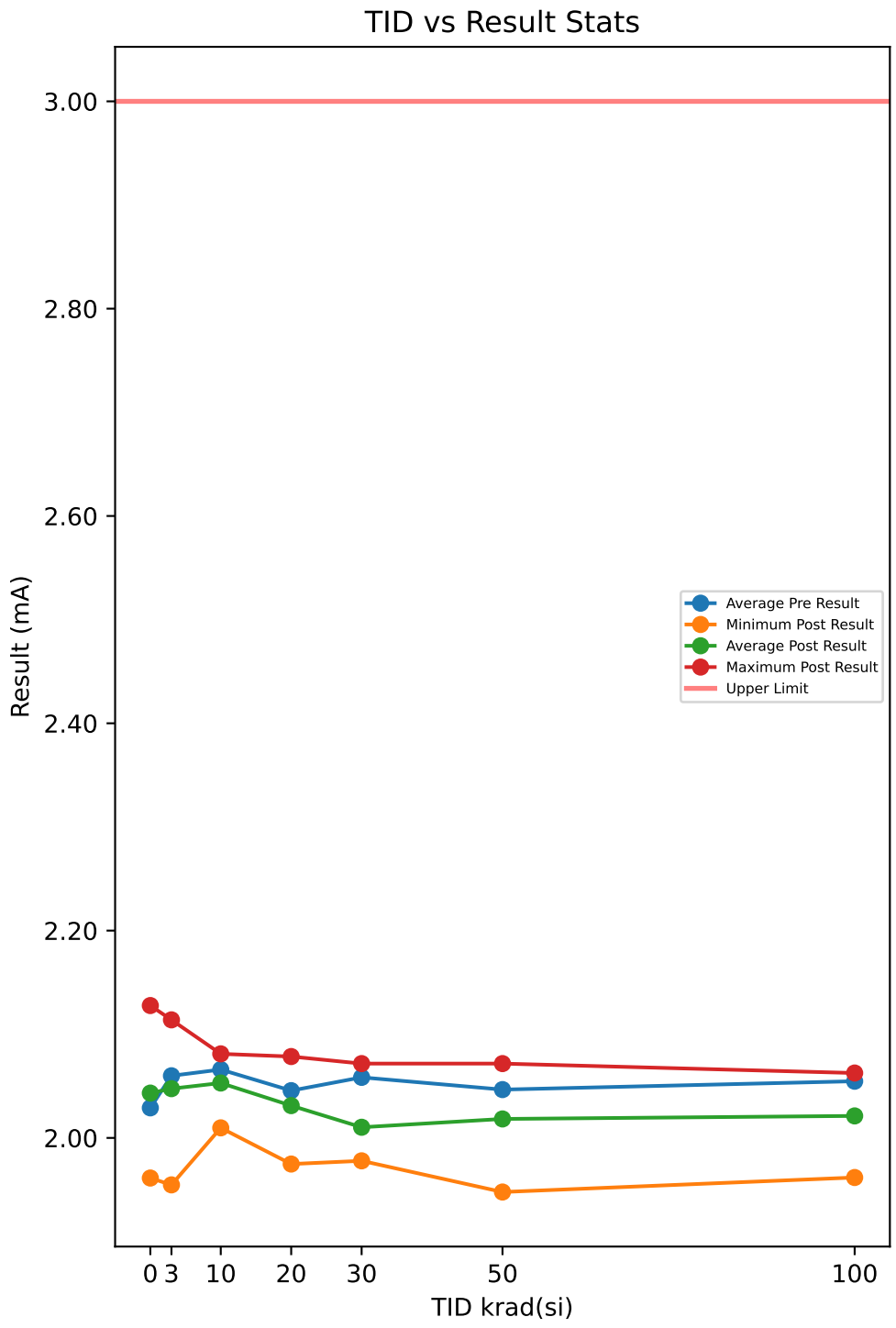
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.2029	1.2019	-0.001
51	3	Biased	1.2022	1.1964	-0.0058
52	3	Biased	1.2024	1.202	-0.0004
53	3	Biased	1.2048	1.2058	0.001
54	3	Biased	1.2035	1.2038	0.0003
55	3	Unbiased	1.2037	1.2069	0.0032
56	3	Unbiased	1.2055	1.1997	-0.0058
57	3	Unbiased	1.204	1.2029	-0.0011
58	3	Unbiased	1.2017	1.204	0.0023
59	3	Unbiased	1.2014	1.2089	0.0075
60	10	Biased	1.2083	1.2009	-0.0074
61	10	Biased	1.205	1.2045	-0.0005
62	10	Biased	1.2064	1.205	-0.0014
63	10	Biased	1.2041	1.2039	-0.0002
64	10	Biased	1.2017	1.1981	-0.0036
65	10	Unbiased	1.1991	1.2018	0.0027
66	10	Unbiased	1.2024	1.198	-0.0044
67	10	Unbiased	1.2007	1.2037	0.003
68	10	Unbiased	1.2036	1.202	-0.0016
69	10	Unbiased	1.2012	1.2047	0.0035
100	20	Biased	1.2004	1.2053	0.0049
200	20	Biased	1.2079	1.2072	-0.0007
300	20	Biased	1.1997	1.1995	-0.0002
400	20	Biased	1.2041	1.2035	-0.0006
500	20	Biased	1.205	1.205	0
600	20	Unbiased	1.2036	1.2038	0.0002
700	20	Unbiased	1.199	1.1994	0.0004
800	20	Unbiased	1.2023	1.202	-0.0003
900	20	Unbiased	1.2023	1.202	-0.0003
1000	20	Unbiased	1.2045	1.2036	-0.0009
1100	30	Biased	1.2025	1.2025	0
1200	30	Biased	1.1986	1.1982	-0.0004
1300	30	Biased	1.2034	1.204	0.0006
1400	30	Biased	1.2049	1.2049	0
1500	30	Biased	1.2045	1.2044	-0.0001
1600	30	Unbiased	1.206	1.2056	-0.0004
1700	30	Unbiased	1.2055	1.2051	-0.0004
1800	30	Unbiased	1.2016	1.2016	0
1900	30	Unbiased	1.2051	1.206	0.0009
2000	30	Unbiased	1.2045	1.2045	0
2100	50	Biased-84Hr-Anneal	1.2038	1.2037	-0.0001
2200	50	Biased-84Hr-Anneal	1.2031	1.2027	-0.0004
2300	50	Biased-84Hr-Anneal	1.2035	1.2024	-0.0011
2400	50	Biased-84Hr-Anneal	1.2056	1.2047	-0.0009
2500	50	Biased-84Hr-Anneal	1.2054	1.2048	-0.0006
2600	50	Unbiased	1.2066	1.2062	-0.0004
2700	50	Unbiased	1.2049	1.2046	-0.0003
2800	50	Unbiased	1.2042	1.2038	-0.0004
2900	50	Unbiased	1.2015	1.2	-0.0015
3000	50	Unbiased	1.2025	1.202	-0.0005
4000	100	Biased-168Hr-Anneal	1.2047	1.2032	-0.0015
4100	100	Biased-168Hr-Anneal	1.2062	1.2068	0.0006
4200	100	Biased-168Hr-Anneal	1.2012	1.2004	-0.0008
4300	100	Biased-168Hr-Anneal	1.2016	1.2007	-0.0009
4400	100	Biased-168Hr-Anneal	1.2024	1.2019	-0.0005
4500	100	Unbiased-168Hr-Anneal	1.2046	1.2047	0.0001
4600	100	Unbiased-168Hr-Anneal	1.204	1.2044	0.0004
4700	100	Unbiased-168Hr-Anneal	1.2042	1.2044	0.0002
4800	100	Unbiased-168Hr-Anneal	1.203	1.2024	-0.0006
4900	100	Unbiased-168Hr-Anneal	1.2033	1.2038	0.0005
9300	0	CORRELATION	1.2055	1.2003	-0.0052
9400	0	CORRELATION	1.2009	1.2009	0
9500	0	CORRELATION	1.2025	1.2025	0
9600	0	CORRELATION	1.1988	1.1987	-0.0001
9700	0	CORRELATION	1.2076	1.2076	0

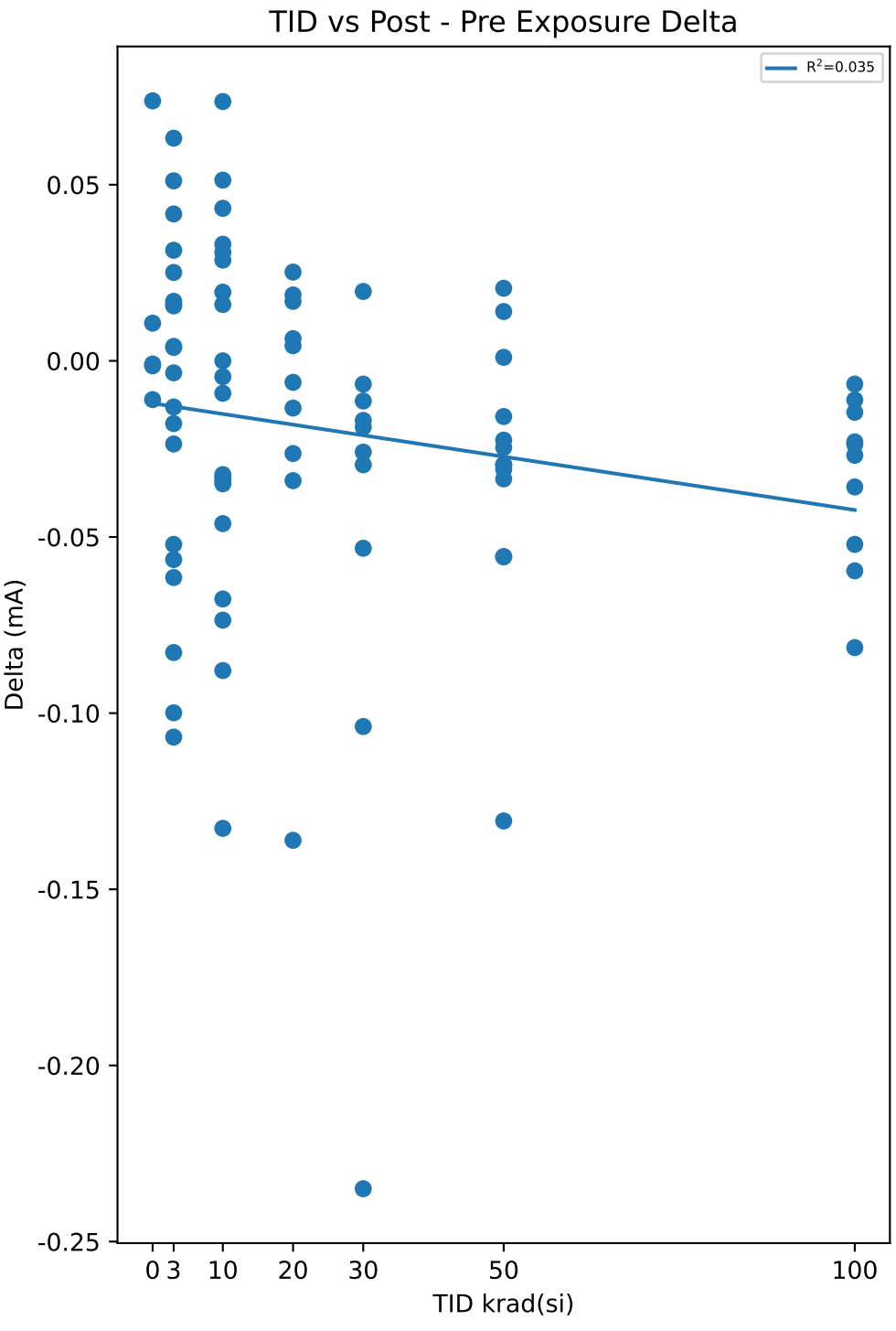


Test Statistics (V)

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	1.1988	1.2031	1.2076	0.0035246	1.1987	1.202	1.2076	0.0034132	-0.0052	-0.00106	0	0.0023147
3	1.2014	1.2032	1.2055	0.0013354	1.1964	1.2032	1.2089	0.0035846	-0.0058	2e-05	0.0075	0.0039793
10	1.1991	1.2033	1.2083	0.0027965	1.198	1.2023	1.205	0.0025997	-0.0074	-0.00099	0.0035	0.003506
20	1.199	1.2029	1.2079	0.0027145	1.1994	1.2031	1.2072	0.002477	-0.0009	0.00025	0.0049	0.0016821
30	1.1986	1.2037	1.206	0.0022396	1.1982	1.2037	1.206	0.002348	-0.0004	2e-05	0.0009	0.00042895
50	1.2015	1.2041	1.2066	0.0015495	1.2	1.2035	1.2062	0.0017673	-0.0015	-0.00062	-0.0001	0.00042374
100	1.2012	1.2035	1.2062	0.0015303	1.2004	1.2033	1.2068	0.001967	-0.0015	-0.00025	0.0006	0.0007075

Device Test: 12.16 IDD|STATIC/VIN/14////@VIN_SHDN_CURR_14V





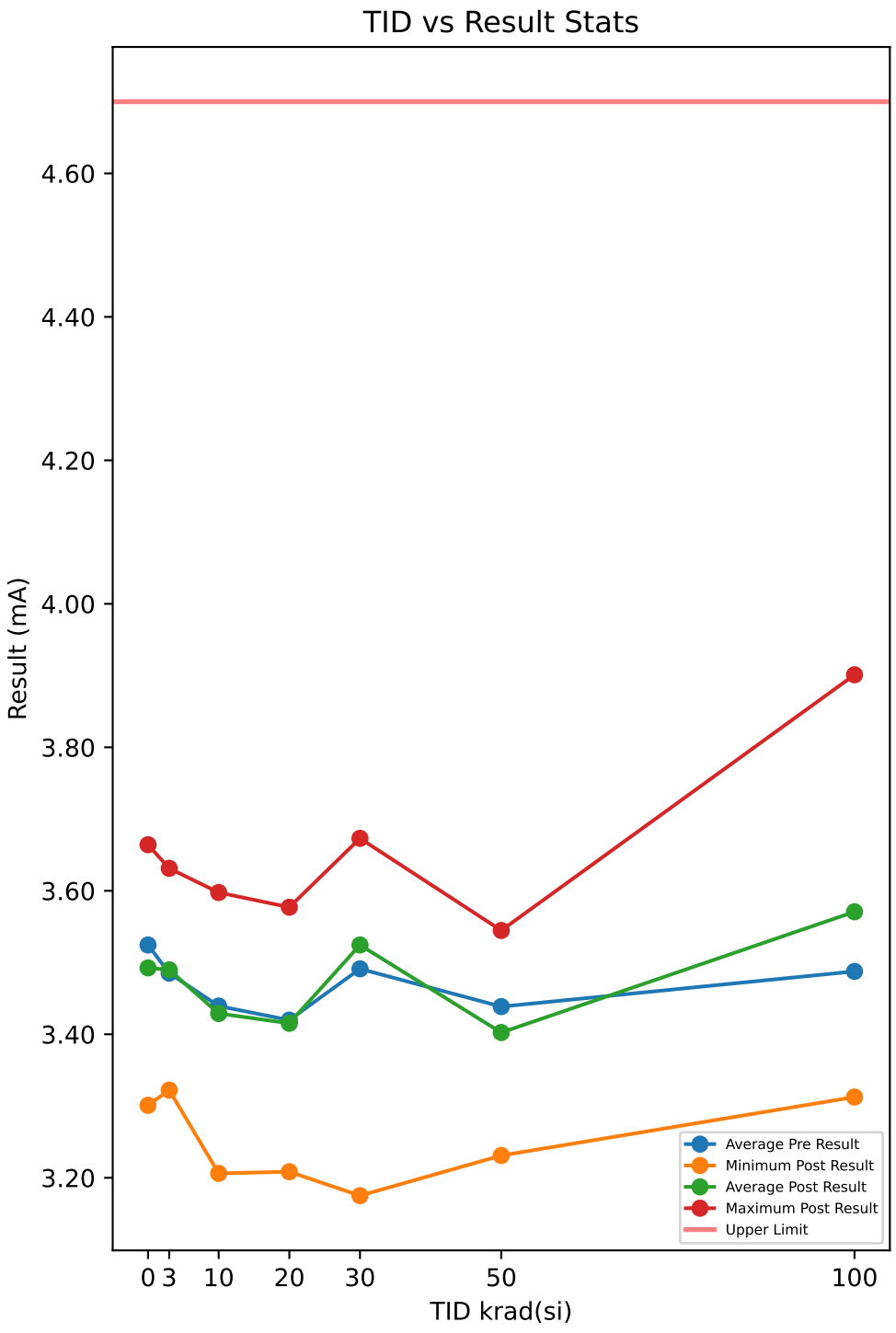
Test Results (Upper Limit = 3.0 (mA))

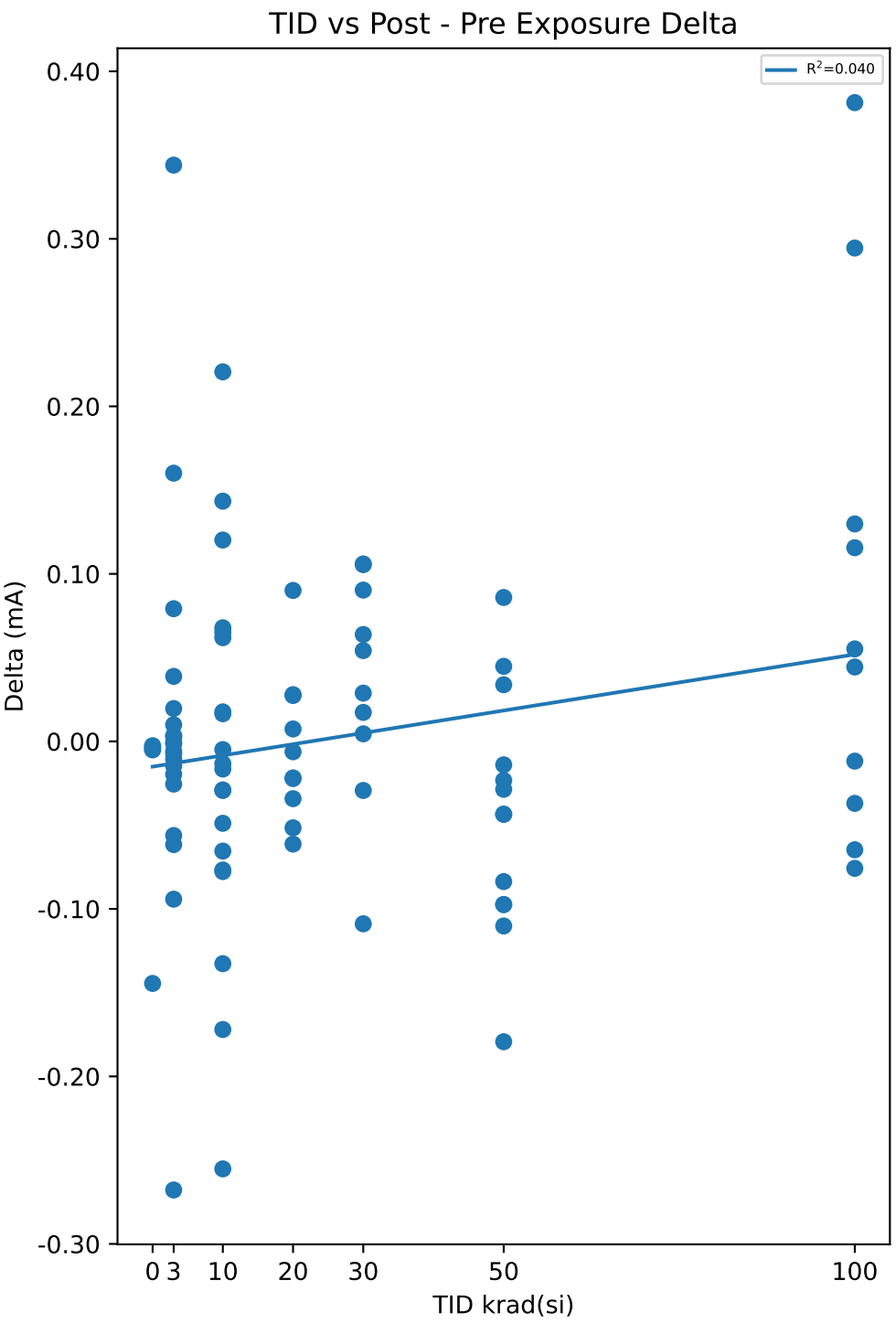
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.0193	2.0444	0.0251
51	3	Biased	2.0573	2.0729	0.0156
52	3	Biased	2.0722	2.1139	0.0417
53	3	Biased	2.0012	2.0172	0.016
54	3	Biased	1.9963	2.0277	0.0314
55	3	Unbiased	2.0068	1.9547	-0.0521
56	3	Unbiased	2.0744	2.0508	-0.0236
57	3	Unbiased	2.0571	2.1082	0.0511
58	3	Unbiased	2.0655	2.0824	0.0169
59	3	Unbiased	2.0645	2.003	-0.0615
60	10	Biased	2.0025	2.0333	0.0308
61	10	Biased	2.0936	2.0474	-0.0462
62	10	Biased	1.9766	2.0097	0.0331
63	10	Biased	2.0248	2.0408	0.016
64	10	Biased	2.0378	2.0811	0.0433
65	10	Unbiased	2.0466	2.0752	0.0286
66	10	Unbiased	1.9798	2.0534	0.0736
67	10	Unbiased	2.092	2.0597	-0.0323
68	10	Unbiased	2.1108	2.0766	-0.0342
69	10	Unbiased	2.0872	2.0523	-0.0349
100	20	Biased	2.045	2.0513	0.0063
200	20	Biased	2.0616	2.0785	0.0169
300	20	Biased	2.1162	1.9801	-0.1361
400	20	Biased	2.0778	2.0717	-0.0061
500	20	Biased	2.089	2.0627	-0.0263
600	20	Unbiased	1.9561	1.9748	0.0187
700	20	Unbiased	2.0534	2.04	-0.0134
800	20	Unbiased	2.0153	1.9813	-0.034
900	20	Unbiased	2.0643	2.0686	0.0043
1000	20	Unbiased	1.9774	2.0026	0.0252
1100	30	Biased	2.1755	2.0717	-0.1038
1200	30	Biased	2.0653	2.0121	-0.0532
1300	30	Biased	2.0145	2.0079	-0.0066
1400	30	Biased	1.9872	2.0069	0.0197
1500	30	Biased	1.9948	1.9779	-0.0169
1600	30	Unbiased	2.0158	1.9899	-0.0259
1700	30	Unbiased	2.2585	2.0235	-0.235
1800	30	Unbiased	2.0035	1.9921	-0.0114
1900	30	Unbiased	2.0322	2.0027	-0.0295
2000	30	Unbiased	2.0369	2.0181	-0.0188
2100	50	Biased-84Hr-Anneal	2.0547	1.9991	-0.0556
2200	50	Biased-84Hr-Anneal	1.9914	1.9756	-0.0158
2300	50	Biased-84Hr-Anneal	2.0577	2.0717	0.014
2400	50	Biased-84Hr-Anneal	2.0378	2.0584	0.0206
2500	50	Biased-84Hr-Anneal	2.1477	2.0171	-0.1306
2600	50	Unbiased	2.0637	2.0412	-0.0225
2700	50	Unbiased	2.0624	2.0378	-0.0246
2800	50	Unbiased	2.0906	2.0571	-0.0335
2900	50	Unbiased	1.9786	1.9478	-0.0308
3000	50	Unbiased	1.9816	1.9826	0.001
4000	100	Biased-168Hr-Anneal	2.1222	2.0626	-0.0596
4100	100	Biased-168Hr-Anneal	2.0452	2.0306	-0.0146
4200	100	Biased-168Hr-Anneal	2.024	2.001	-0.023
4300	100	Biased-168Hr-Anneal	1.9729	1.9618	-0.0111
4400	100	Biased-168Hr-Anneal	2.0885	2.0527	-0.0358
4500	100	Unbiased-168Hr-Anneal	2.0842	2.0028	-0.0814
4600	100	Unbiased-168Hr-Anneal	2.0446	2.0209	-0.0237
4700	100	Unbiased-168Hr-Anneal	2.0466	2.0198	-0.0268
4800	100	Unbiased-168Hr-Anneal	2.0775	2.0254	-0.0521
4900	100	Unbiased-168Hr-Anneal	2.0412	2.0346	-0.0066
9300	0	CORRELATION	2.0539	2.1277	0.0738
9400	0	CORRELATION	1.9723	1.9613	-0.011
9500	0	CORRELATION	1.9808	1.9794	-0.0014
9600	0	CORRELATION	2.027	2.0261	-0.0009
9700	0	CORRELATION	2.111	2.1217	0.0107

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	1.9723	2.029	2.111	0.056759	1.9613	2.0432	2.1277	0.078059	-0.011	0.01424	0.0738	0.034172
3	1.9963	2.0415	2.0744	0.0316	1.9547	2.0475	2.1139	0.049306	-0.0615	0.00606	0.0511	0.03864
10	1.9766	2.0452	2.1108	0.049306	2.0097	2.053	2.0811	0.021929	-0.0462	0.00778	0.0736	0.041325
20	1.9561	2.0456	2.1162	0.049611	1.9748	2.0312	2.0785	0.041966	-0.1361	-0.01445	0.0252	0.046938
30	1.9872	2.0584	2.2585	0.088706	1.9779	2.0103	2.0717	0.025562	-0.235	-0.04814	0.0197	0.073331
50	1.9786	2.0466	2.1477	0.052558	1.9478	2.0188	2.0717	0.041238	-0.1306	-0.02778	0.0206	0.042796
100	1.9729	2.0547	2.1222	0.041046	1.9618	2.0212	2.0626	0.028419	-0.0814	-0.03347	-0.0066	0.023946

Device Test: 12.17 IDD|STATIC/PVIN/14////@PVIN_SHDN_CURR_14V





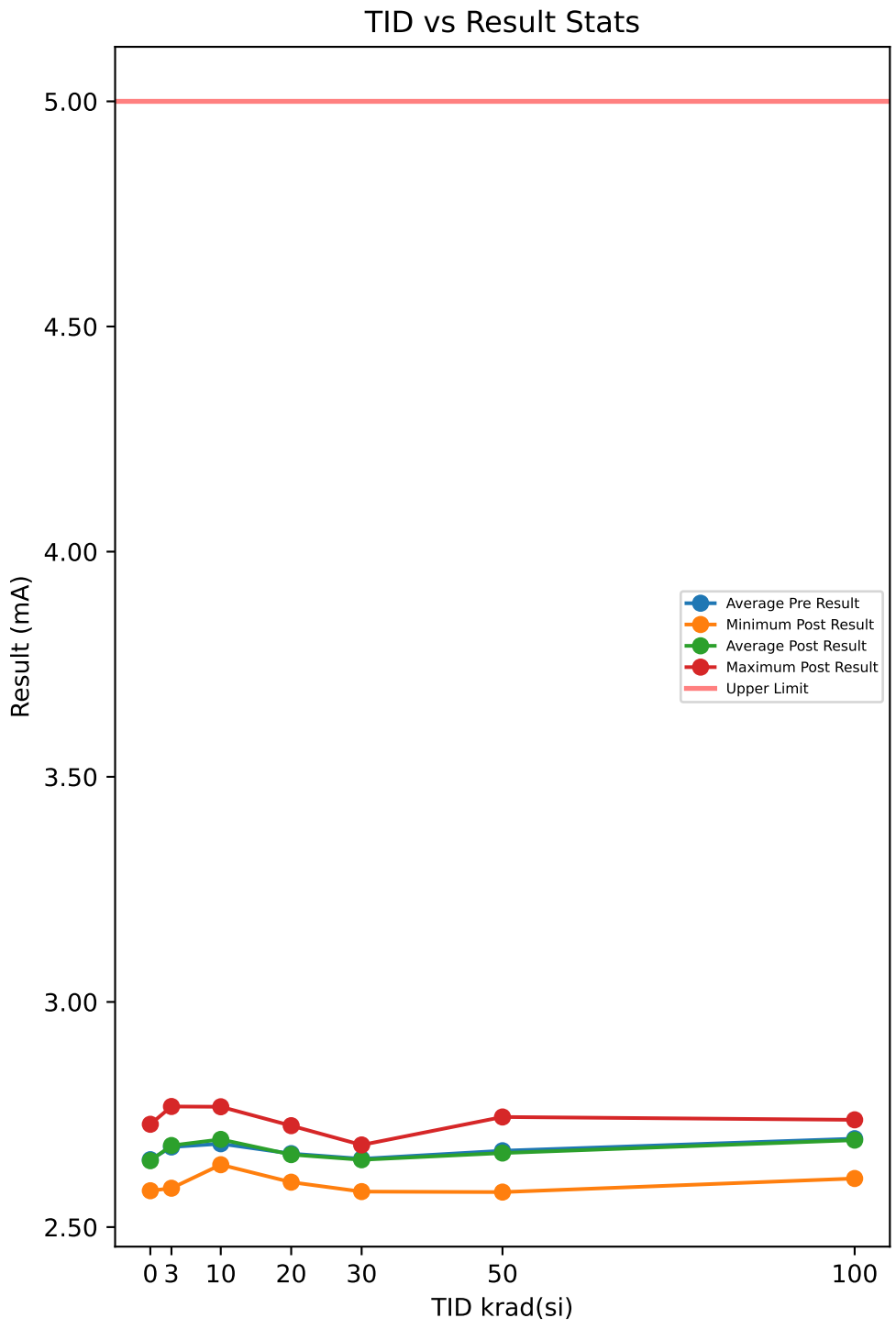
Test Results (Upper Limit = 4.7 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.5532	3.5474	-0.0058
51	3	Biased	3.4334	3.5935	0.1601
52	3	Biased	3.2873	3.6313	0.344
53	3	Biased	3.5535	3.4973	-0.0562
54	3	Biased	3.4504	3.4892	0.0388
55	3	Unbiased	3.6773	3.4095	-0.2678
56	3	Unbiased	3.3878	3.3681	-0.0197
57	3	Unbiased	3.6234	3.5618	-0.0616
58	3	Unbiased	3.3986	3.4778	0.0792
59	3	Unbiased	3.4164	3.3222	-0.0942
60	10	Biased	3.4416	3.3648	-0.0768
61	10	Biased	3.4687	3.5889	0.1202
62	10	Biased	3.4613	3.2061	-0.2552
63	10	Biased	3.3138	3.5344	0.2206
64	10	Biased	3.4246	3.4897	0.0651
65	10	Unbiased	3.533	3.4003	-0.1327
66	10	Unbiased	3.4141	3.2421	-0.172
67	10	Unbiased	3.3981	3.3326	-0.0655
68	10	Unbiased	3.562	3.533	-0.029
69	10	Unbiased	3.4542	3.5976	0.1434
100	20	Biased	3.3029	3.393	0.0901
200	20	Biased	3.5697	3.5771	0.0074
300	20	Biased	3.4564	3.4838	0.0274
400	20	Biased	3.5439	3.5377	-0.0062
500	20	Biased	3.2697	3.2084	-0.0613
600	20	Unbiased	3.4836	3.432	-0.0516
700	20	Unbiased	3.3315	3.3097	-0.0218
800	20	Unbiased	3.4275	3.3933	-0.0342
900	20	Unbiased	3.2853	3.2631	-0.0222
1000	20	Unbiased	3.5272	3.5551	0.0279
1100	30	Biased	3.5182	3.4889	-0.0293
1200	30	Biased	3.48	3.4845	0.0045
1300	30	Biased	3.5324	3.5866	0.0542
1400	30	Biased	3.5676	3.6731	0.1055
1500	30	Biased	3.5285	3.6344	0.1059
1600	30	Unbiased	3.4098	3.4736	0.0638
1700	30	Unbiased	3.5806	3.6709	0.0903
1800	30	Unbiased	3.5177	3.5465	0.0288
1900	30	Unbiased	3.4937	3.511	0.0173
2000	30	Unbiased	3.2839	3.175	-0.1089
2100	50	Biased-84Hr-Anneal	3.4673	3.4238	-0.0435
2200	50	Biased-84Hr-Anneal	3.5173	3.4336	-0.0837
2300	50	Biased-84Hr-Anneal	3.512	3.4834	-0.0286
2400	50	Biased-84Hr-Anneal	3.4628	3.5076	0.0448
2500	50	Biased-84Hr-Anneal	3.4588	3.5447	0.0859
2600	50	Unbiased	3.4152	3.2359	-0.1793
2700	50	Unbiased	3.4282	3.4049	-0.0233
2800	50	Unbiased	3.3412	3.231	-0.1102
2900	50	Unbiased	3.3902	3.424	0.0338
3000	50	Unbiased	3.3928	3.3788	-0.014
4000	100	Biased-168Hr-Anneal	3.5198	3.9011	0.3813
4100	100	Biased-168Hr-Anneal	3.4681	3.5233	0.0552
4200	100	Biased-168Hr-Anneal	3.3883	3.3125	-0.0758
4300	100	Biased-168Hr-Anneal	3.5437	3.6593	0.1156
4400	100	Biased-168Hr-Anneal	3.4047	3.3677	-0.037
4500	100	Unbiased-168Hr-Anneal	3.5915	3.886	0.2945
4600	100	Unbiased-168Hr-Anneal	3.6095	3.5448	-0.0647
4700	100	Unbiased-168Hr-Anneal	3.3502	3.3384	-0.0118
4800	100	Unbiased-168Hr-Anneal	3.4733	3.6031	0.1298
4900	100	Unbiased-168Hr-Anneal	3.5271	3.5715	0.0444
9300	0	CORRELATION	3.4455	3.301	-0.1445
9400	0	CORRELATION	3.424	3.4189	-0.0051
9500	0	CORRELATION	3.5241	3.5215	-0.0026
9600	0	CORRELATION	3.5615	3.5569	-0.0046
9700	0	CORRELATION	3.6673	3.6642	-0.0031

Test Statistics (mA)

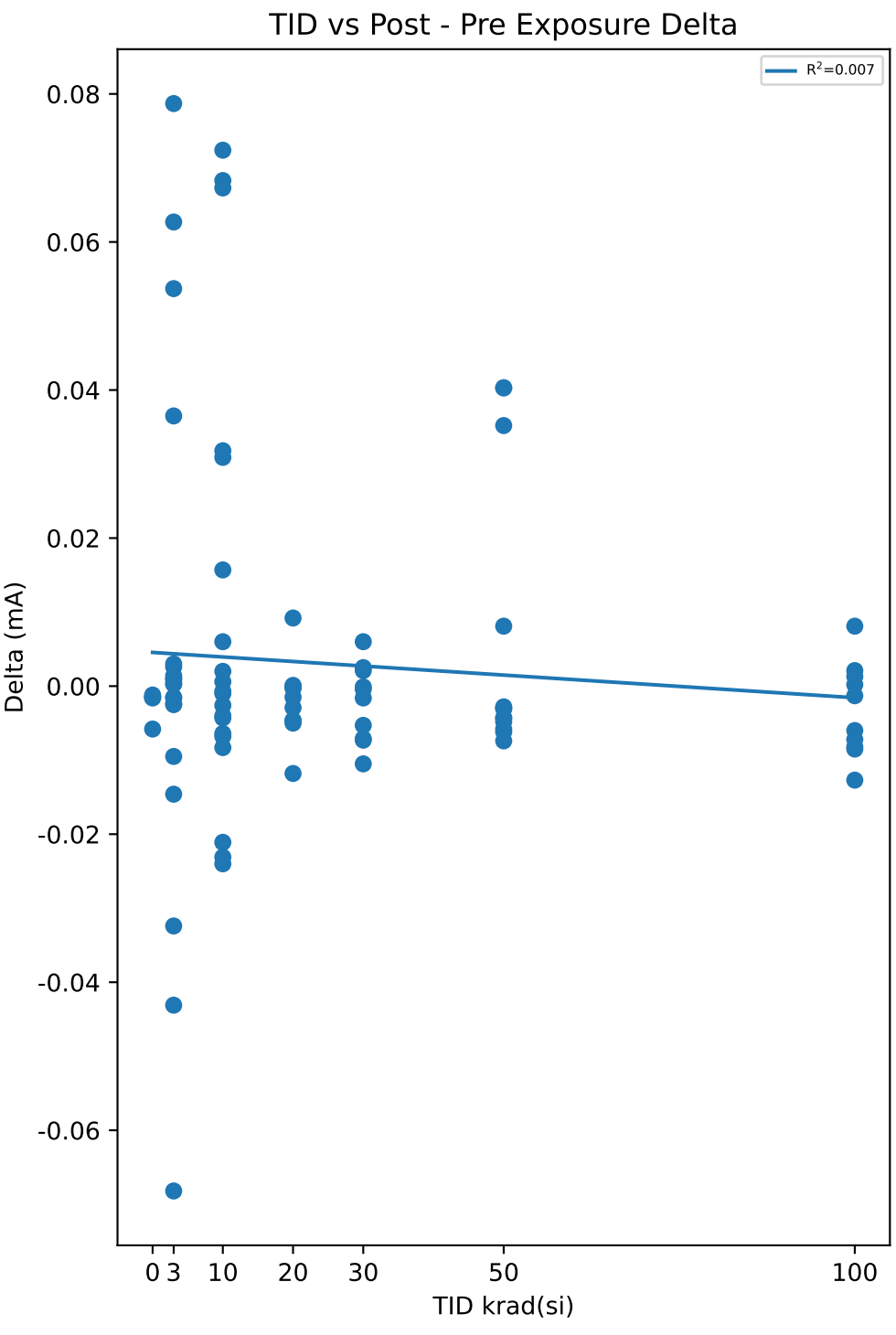
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.424	3.5245	3.6673	0.097599	3.301	3.4925	3.6642	0.13835	-0.1445	-0.03198	-0.0026	0.062909
3	3.2873	3.4781	3.6773	0.11999	3.3222	3.4898	3.6313	0.099346	-0.2678	0.01168	0.344	0.16274
10	3.3138	3.4471	3.562	0.069198	3.2061	3.429	3.5976	0.14081	-0.2552	-0.01819	0.2206	0.15201
20	3.2697	3.4198	3.5697	0.114	3.2084	3.4153	3.5771	0.1264	-0.0613	-0.00445	0.0901	0.044846
30	3.2839	3.4912	3.5806	0.086974	3.175	3.5245	3.6731	0.14442	-0.1089	0.03321	0.1059	0.066953
50	3.3412	3.4386	3.5173	0.055759	3.231	3.4068	3.5447	0.10395	-0.1793	-0.03181	0.0859	0.078285
100	3.3502	3.4876	3.6095	0.086664	3.3125	3.5708	3.9011	0.20608	-0.0758	0.08315	0.3813	0.15263

Device Test: 12.18 IQ|STATIC/VIN/14////@IQ_VIN



Test Results (Upper Limit = 5.0 (mA))

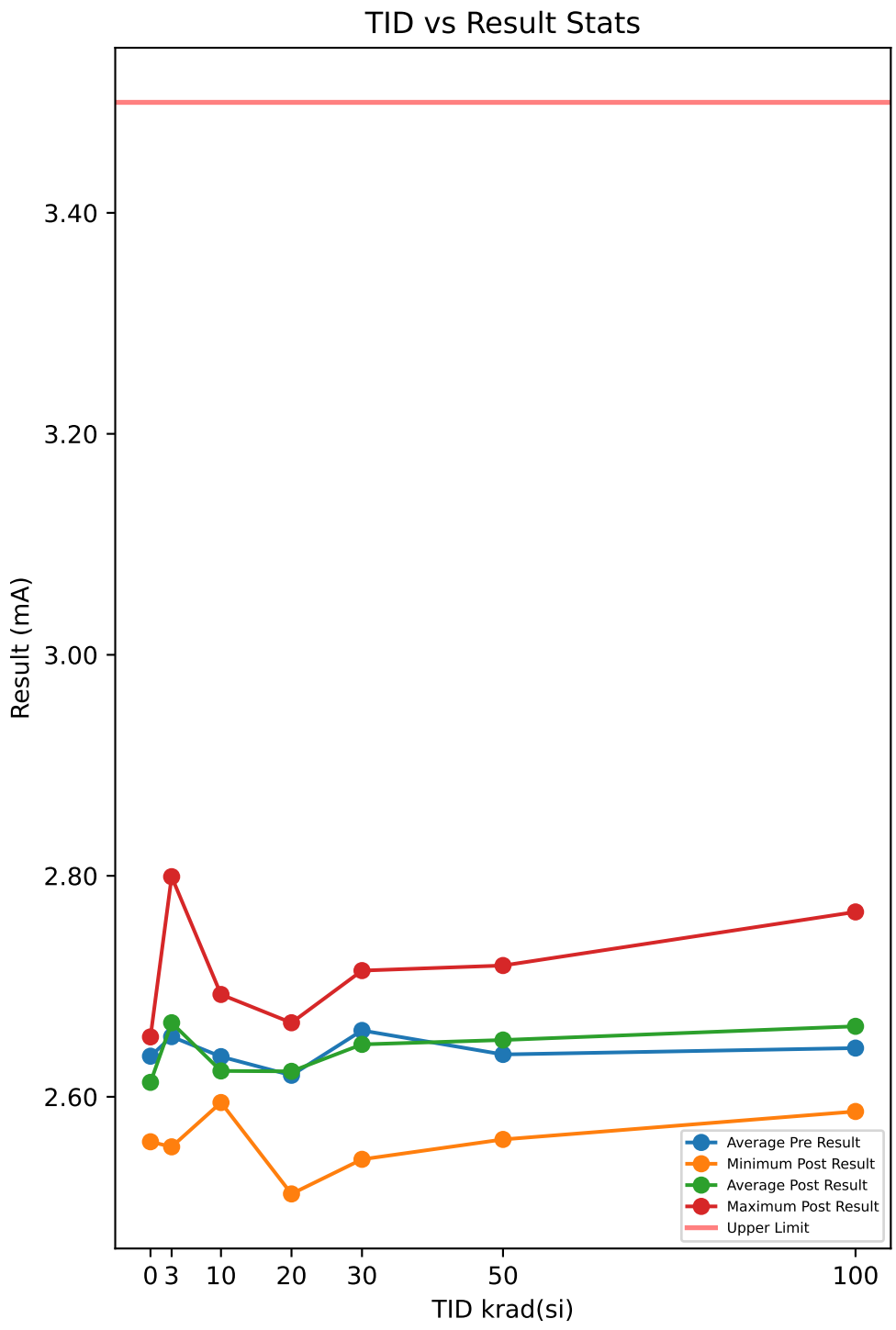
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.6679	2.6355	-0.0324
51	3	Biased	2.676	2.7125	0.0365
52	3	Biased	2.7141	2.7678	0.0537
53	3	Biased	2.6035	2.6662	0.0627
54	3	Biased	2.6407	2.6312	-0.0095
55	3	Unbiased	2.6294	2.5863	-0.0431
56	3	Unbiased	2.716	2.7145	-0.0015
57	3	Unbiased	2.6723	2.751	0.0787
58	3	Unbiased	2.7624	2.6942	-0.0682
59	3	Unbiased	2.6669	2.6523	-0.0146
60	10	Biased	2.685	2.6639	-0.0211
61	10	Biased	2.7307	2.7067	-0.024
62	10	Biased	2.6228	2.6385	0.0157
63	10	Biased	2.6267	2.6991	0.0724
64	10	Biased	2.632	2.6629	0.0309
65	10	Unbiased	2.6329	2.6647	0.0318
66	10	Unbiased	2.6342	2.7025	0.0683
67	10	Unbiased	2.7525	2.7294	-0.0231
68	10	Unbiased	2.6999	2.7672	0.0673
69	10	Unbiased	2.7205	2.7122	-0.0083
100	20	Biased	2.659	2.6682	0.0092
200	20	Biased	2.7044	2.7043	-0.0001
300	20	Biased	2.6061	2.6014	-0.0047
400	20	Biased	2.7281	2.7252	-0.0029
500	20	Biased	2.6917	2.6871	-0.0046
600	20	Unbiased	2.6047	2.5997	-0.005
700	20	Unbiased	2.6602	2.6587	-0.0015
800	20	Unbiased	2.6458	2.6459	0.0001
900	20	Unbiased	2.712	2.7002	-0.0118
1000	20	Unbiased	2.6192	2.6189	-0.0003
1100	30	Biased	2.6803	2.6824	0.0021
1200	30	Biased	2.6597	2.6524	-0.0073
1300	30	Biased	2.6299	2.6324	0.0025
1400	30	Biased	2.6444	2.6504	0.006
1500	30	Biased	2.5789	2.5788	-0.0001
1600	30	Unbiased	2.6552	2.6536	-0.0016
1700	30	Unbiased	2.6876	2.6805	-0.0071
1800	30	Unbiased	2.634	2.6336	-0.0004
1900	30	Unbiased	2.6753	2.6648	-0.0105
2000	30	Unbiased	2.6711	2.6658	-0.0053
2100	50	Biased-84Hr-Anneal	2.6201	2.6604	0.0403
2200	50	Biased-84Hr-Anneal	2.5715	2.6067	0.0352
2300	50	Biased-84Hr-Anneal	2.7105	2.7074	-0.0031
2400	50	Biased-84Hr-Anneal	2.7271	2.7352	0.0081
2500	50	Biased-84Hr-Anneal	2.6466	2.6408	-0.0058
2600	50	Unbiased	2.7507	2.7445	-0.0062
2700	50	Unbiased	2.7172	2.7144	-0.0028
2800	50	Unbiased	2.7476	2.7402	-0.0074
2900	50	Unbiased	2.5806	2.5777	-0.0029
3000	50	Unbiased	2.6231	2.6183	-0.0048
4000	100	Biased-168Hr-Anneal	2.7301	2.7382	0.0081
4100	100	Biased-168Hr-Anneal	2.7152	2.7165	0.0013
4200	100	Biased-168Hr-Anneal	2.6439	2.646	0.0021
4300	100	Biased-168Hr-Anneal	2.6206	2.6079	-0.0127
4400	100	Biased-168Hr-Anneal	2.7262	2.7264	0.0002
4500	100	Unbiased-168Hr-Anneal	2.6755	2.6673	-0.0082
4600	100	Unbiased-168Hr-Anneal	2.6853	2.6793	-0.006
4700	100	Unbiased-168Hr-Anneal	2.7055	2.6983	-0.0072
4800	100	Unbiased-168Hr-Anneal	2.7352	2.7267	-0.0085
4900	100	Unbiased-168Hr-Anneal	2.7255	2.7242	-0.0013
9300	0	CORRELATION	2.6638	2.658	-0.0058
9400	0	CORRELATION	2.5823	2.5807	-0.0016
9500	0	CORRELATION	2.6269	2.6254	-0.0015
9600	0	CORRELATION	2.6457	2.6445	-0.0012
9700	0	CORRELATION	2.7298	2.7283	-0.0015



Test Statistics (mA)

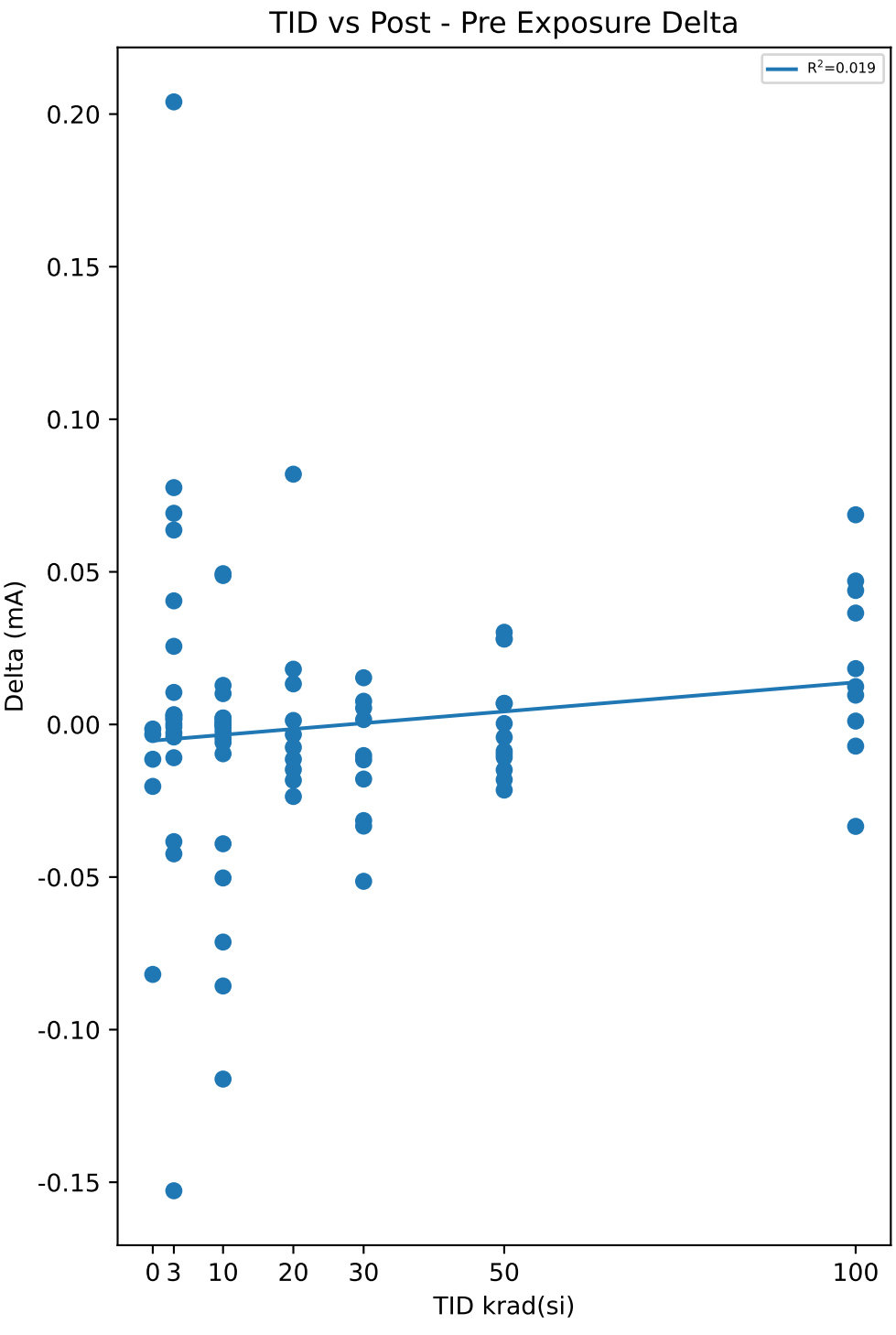
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5823	2.6497	2.7298	0.054068	2.5807	2.6474	2.7283	0.053848	-0.0058	-0.00232	-0.0012	0.0019512
3	2.6035	2.6749	2.7624	0.046357	2.5863	2.6811	2.7678	0.057042	-0.0682	0.00623	0.0787	0.049235
10	2.6228	2.6737	2.7525	0.049695	2.6385	2.6947	2.7672	0.038019	-0.024	0.02099	0.0724	0.039252
20	2.6047	2.6631	2.7281	0.044785	2.5997	2.661	2.7252	0.044199	-0.0118	-0.00216	0.0092	0.0053359
30	2.5789	2.6516	2.6876	0.032073	2.5788	2.6495	2.6824	0.030024	-0.0105	-0.00217	0.006	0.0052105
50	2.5715	2.6695	2.7507	0.068793	2.5777	2.6746	2.7445	0.061496	-0.0074	0.00506	0.0403	0.01779
100	2.6206	2.6963	2.7352	0.039263	2.6079	2.6931	2.7382	0.042357	-0.0127	-0.00322	0.0081	0.0063103

Device Test: 12.2 IDD|STATIC/PVIN/4.5////@PVIN_SHDN_CURR_4V



Test Results (Upper Limit = 3.5 (mA))

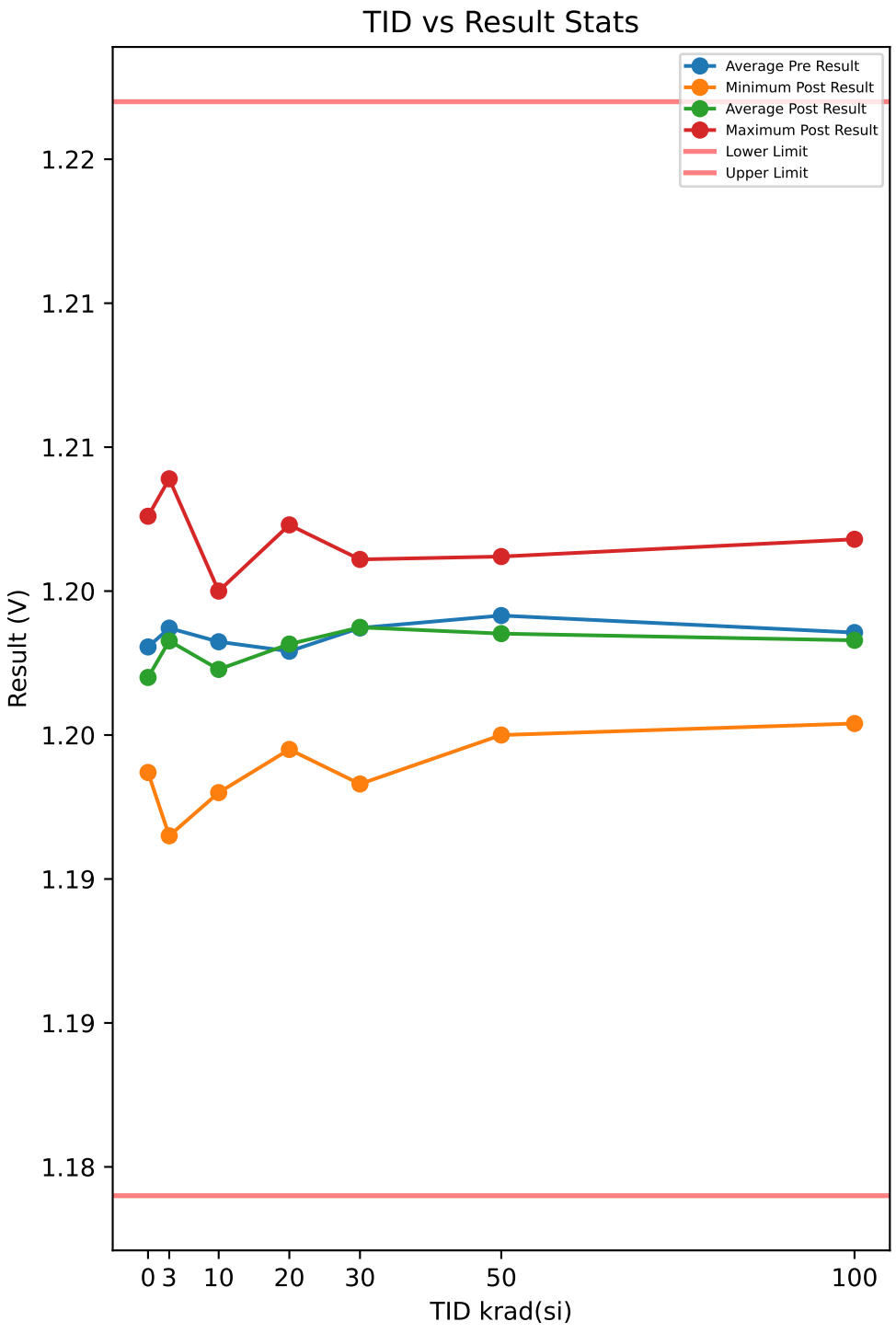
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.6406	2.7182	0.0776
51	3	Biased	2.6685	2.709	0.0405
52	3	Biased	2.5952	2.7992	0.204
53	3	Biased	2.7063	2.6639	-0.0424
54	3	Biased	2.6594	2.7231	0.0637
55	3	Unbiased	2.6267	2.6158	-0.0109
56	3	Unbiased	2.5549	2.6241	0.0692
57	3	Unbiased	2.7521	2.5993	-0.1528
58	3	Unbiased	2.6371	2.6627	0.0256
59	3	Unbiased	2.5931	2.5547	-0.0384
60	10	Biased	2.6712	2.5999	-0.0713
61	10	Biased	2.6338	2.6329	-0.0009
62	10	Biased	2.6344	2.5953	-0.0391
63	10	Biased	2.5663	2.6157	0.0494
64	10	Biased	2.5643	2.6131	0.0488
65	10	Unbiased	2.6854	2.5997	-0.0857
66	10	Unbiased	2.6694	2.6706	0.0012
67	10	Unbiased	2.6451	2.5948	-0.0503
68	10	Unbiased	2.7354	2.6192	-0.1162
69	10	Unbiased	2.6798	2.6926	0.0128
100	20	Biased	2.563	2.645	0.082
200	20	Biased	2.6768	2.6654	-0.0114
300	20	Biased	2.6467	2.66	0.0133
400	20	Biased	2.6853	2.667	-0.0183
500	20	Biased	2.5987	2.5839	-0.0148
600	20	Unbiased	2.6464	2.6431	-0.0033
700	20	Unbiased	2.554	2.5553	0.0013
800	20	Unbiased	2.6459	2.6384	-0.0075
900	20	Unbiased	2.5357	2.5121	-0.0236
1000	20	Unbiased	2.6421	2.6602	0.0181
1100	30	Biased	2.7457	2.7142	-0.0315
1200	30	Biased	2.6811	2.6297	-0.0514
1300	30	Biased	2.6657	2.6673	0.0016
1400	30	Biased	2.6521	2.6597	0.0076
1500	30	Biased	2.6645	2.6798	0.0153
1600	30	Unbiased	2.5613	2.5434	-0.0179
1700	30	Unbiased	2.6692	2.6746	0.0054
1800	30	Unbiased	2.6266	2.6164	-0.0102
1900	30	Unbiased	2.6469	2.6353	-0.0116
2000	30	Unbiased	2.6872	2.6539	-0.0333
2100	50	Biased-84Hr-Anneal	2.6908	2.6977	0.0069
2200	50	Biased-84Hr-Anneal	2.7278	2.717	-0.0108
2300	50	Biased-84Hr-Anneal	2.7362	2.7181	-0.0181
2400	50	Biased-84Hr-Anneal	2.635	2.6135	-0.0215
2500	50	Biased-84Hr-Anneal	2.6062	2.602	-0.0042
2600	50	Unbiased	2.5874	2.5787	-0.0087
2700	50	Unbiased	2.5763	2.5614	-0.0149
2800	50	Unbiased	2.6187	2.609	-0.0097
2900	50	Unbiased	2.6051	2.6054	0.0003
3000	50	Unbiased	2.5997	2.6299	0.0302
4000	100	Biased-168Hr-Anneal	2.6104	2.6469	0.0365
4100	100	Biased-168Hr-Anneal	2.6144	2.6583	0.0439
4200	100	Biased-168Hr-Anneal	2.5771	2.5867	0.0096
4300	100	Biased-168Hr-Anneal	2.6742	2.6925	0.0183
4400	100	Biased-168Hr-Anneal	2.6431	2.7118	0.0687
4500	100	Unbiased-168Hr-Anneal	2.6601	2.653	-0.0071
4600	100	Unbiased-168Hr-Anneal	2.8007	2.7673	-0.0334
4700	100	Unbiased-168Hr-Anneal	2.583	2.5954	0.0124
4800	100	Unbiased-168Hr-Anneal	2.6174	2.6644	0.047
4900	100	Unbiased-168Hr-Anneal	2.6603	2.6614	0.0011
9300	0	CORRELATION	2.6421	2.5602	-0.0819
9400	0	CORRELATION	2.5796	2.5593	-0.0203
9500	0	CORRELATION	2.6493	2.6478	-0.0015
9600	0	CORRELATION	2.6575	2.6542	-0.0033
9700	0	CORRELATION	2.6552	2.6438	-0.0114



Test Statistics (mA)

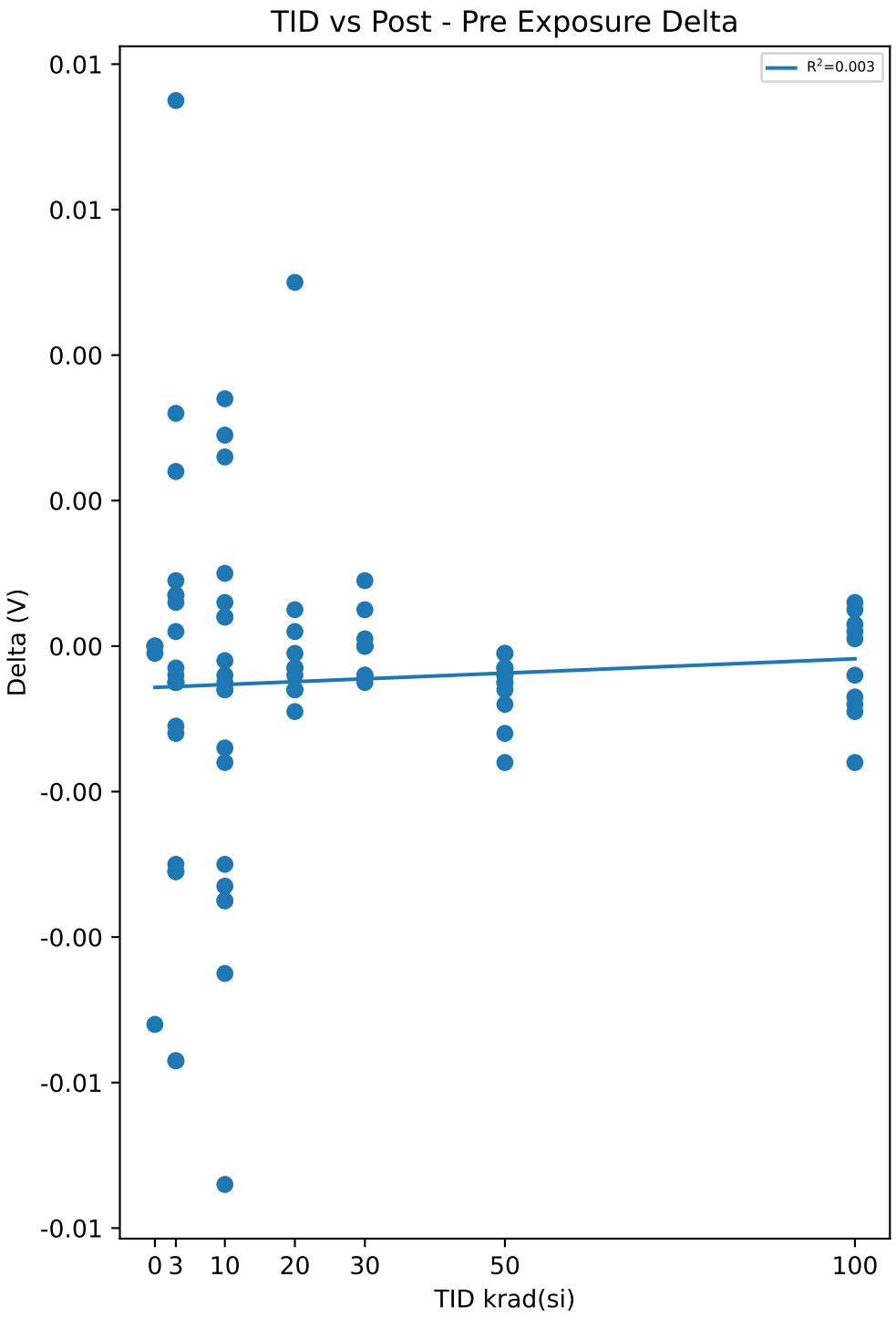
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5796	2.6367	2.6575	0.032493	2.5593	2.6131	2.6542	0.048807	-0.0819	-0.02368	-0.0015	0.033388
3	2.5549	2.6434	2.7521	0.057417	2.5547	2.667	2.7992	0.072029	-0.1528	0.02361	0.204	0.094248
10	2.5643	2.6485	2.7354	0.052829	2.5948	2.6234	2.6926	0.033352	-0.1162	-0.02513	0.0494	0.056433
20	2.5357	2.6195	2.6853	0.052938	2.5121	2.623	2.667	0.053772	-0.0236	0.00358	0.082	0.030569
30	2.5613	2.66	2.7457	0.046855	2.5434	2.6474	2.7142	0.046041	-0.0514	-0.0126	0.0153	0.021182
50	2.5763	2.6383	2.7362	0.058503	2.5614	2.6333	2.7181	0.057006	-0.0215	-0.00505	0.0302	0.014984
100	2.5771	2.6441	2.8007	0.064033	2.5867	2.6638	2.7673	0.052601	-0.0334	0.0197	0.0687	0.029917

Device Test: 12.20 LEVEL|STATIC/REFCAP/14////@VBANDGAP



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

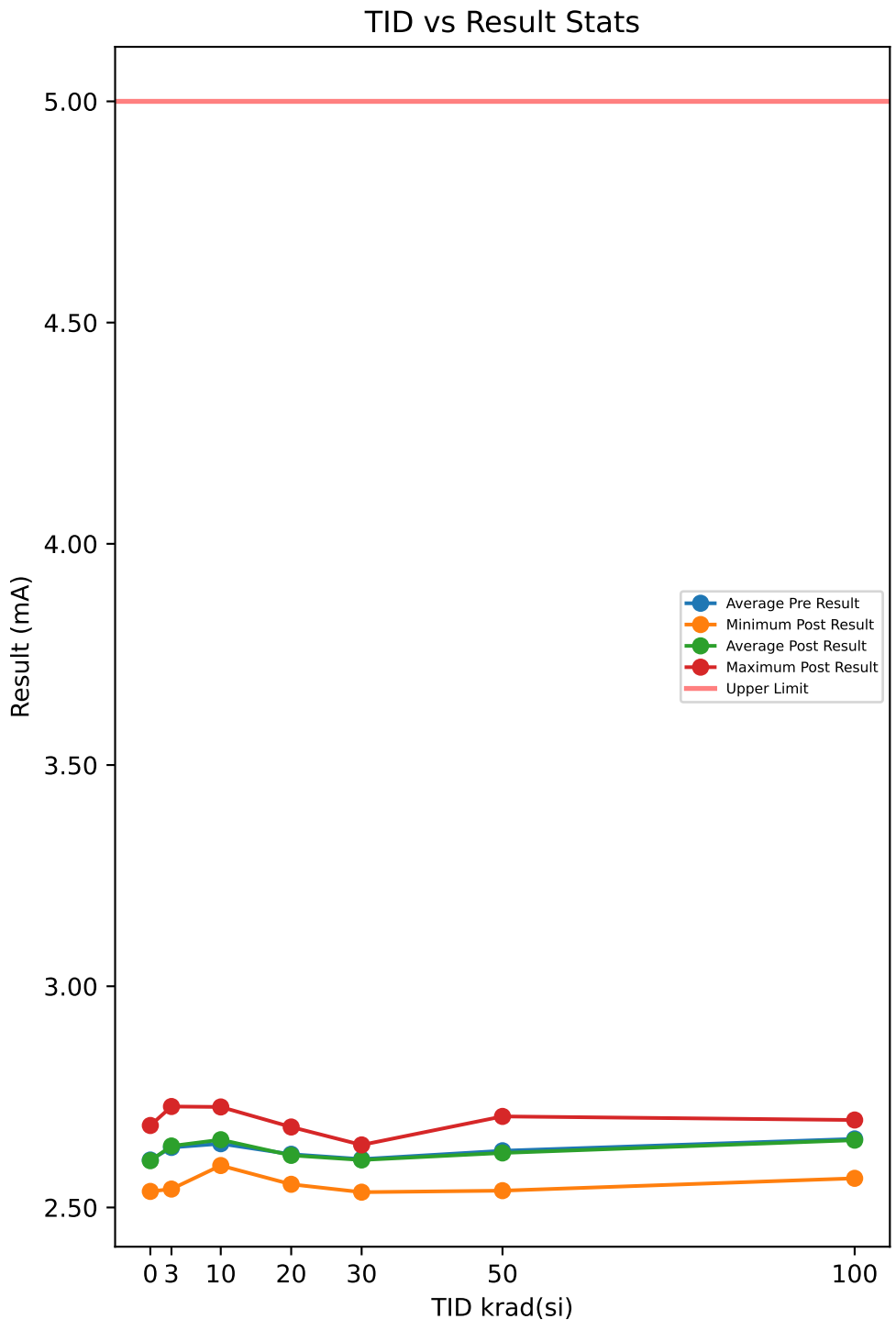
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.203	1.2019	-0.0011
51	3	Biased	1.2022	1.1965	-0.0057
52	3	Biased	1.2025	1.2021	-0.0004
53	3	Biased	1.2049	1.2058	0.0009
54	3	Biased	1.2036	1.2038	0.0002
55	3	Unbiased	1.2037	1.2069	0.0032
56	3	Unbiased	1.2055	1.1998	-0.0057
57	3	Unbiased	1.2041	1.2029	-0.0012
58	3	Unbiased	1.2017	1.2041	0.0024
59	3	Unbiased	1.2014	1.2089	0.0075
60	10	Biased	1.2083	1.2009	-0.0074
61	10	Biased	1.205	1.2046	-0.0004
62	10	Biased	1.2064	1.205	-0.0014
63	10	Biased	1.2041	1.2039	-0.0002
64	10	Biased	1.2017	1.1982	-0.0035
65	10	Unbiased	1.1992	1.2018	0.0026
66	10	Unbiased	1.2025	1.198	-0.0045
67	10	Unbiased	1.2008	1.2037	0.0029
68	10	Unbiased	1.2036	1.202	-0.0016
69	10	Unbiased	1.2013	1.2047	0.0034
100	20	Biased	1.2004	1.2054	0.005
200	20	Biased	1.2079	1.2073	-0.0006
300	20	Biased	1.1998	1.1995	-0.0003
400	20	Biased	1.2041	1.2035	-0.0006
500	20	Biased	1.2051	1.205	-0.0001
600	20	Unbiased	1.2036	1.2038	0.0002
700	20	Unbiased	1.199	1.1995	0.0005
800	20	Unbiased	1.2024	1.202	-0.0004
900	20	Unbiased	1.2023	1.202	-0.0003
1000	20	Unbiased	1.2045	1.2036	-0.0009
1100	30	Biased	1.2025	1.2025	0
1200	30	Biased	1.1987	1.1983	-0.0004
1300	30	Biased	1.2035	1.204	0.0005
1400	30	Biased	1.205	1.205	0
1500	30	Biased	1.2045	1.2045	0
1600	30	Unbiased	1.2061	1.2056	-0.0005
1700	30	Unbiased	1.2055	1.2051	-0.0004
1800	30	Unbiased	1.2016	1.2017	0.0001
1900	30	Unbiased	1.2052	1.2061	0.0009
2000	30	Unbiased	1.2046	1.2046	0
2100	50	Biased-84Hr-Anneal	1.2038	1.2037	-0.0001
2200	50	Biased-84Hr-Anneal	1.2031	1.2027	-0.0004
2300	50	Biased-84Hr-Anneal	1.2036	1.2024	-0.0012
2400	50	Biased-84Hr-Anneal	1.2056	1.2048	-0.0008
2500	50	Biased-84Hr-Anneal	1.2054	1.2048	-0.0006
2600	50	Unbiased	1.2067	1.2062	-0.0005
2700	50	Unbiased	1.2049	1.2046	-0.0003
2800	50	Unbiased	1.2043	1.2039	-0.0004
2900	50	Unbiased	1.2016	1.2	-0.0016
3000	50	Unbiased	1.2025	1.202	-0.0005
4000	100	Biased-168Hr-Anneal	1.2048	1.2032	-0.0016
4100	100	Biased-168Hr-Anneal	1.2062	1.2068	0.0006
4200	100	Biased-168Hr-Anneal	1.2012	1.2004	-0.0008
4300	100	Biased-168Hr-Anneal	1.2016	1.2007	-0.0009
4400	100	Biased-168Hr-Anneal	1.2024	1.202	-0.0004
4500	100	Unbiased-168Hr-Anneal	1.2047	1.2048	0.0001
4600	100	Unbiased-168Hr-Anneal	1.2041	1.2044	0.0003
4700	100	Unbiased-168Hr-Anneal	1.2042	1.2044	0.0002
4800	100	Unbiased-168Hr-Anneal	1.2031	1.2024	-0.0007
4900	100	Unbiased-168Hr-Anneal	1.2033	1.2038	0.0005
9300	0	CORRELATION	1.2055	1.2003	-0.0052
9400	0	CORRELATION	1.2009	1.2009	0
9500	0	CORRELATION	1.2025	1.2025	0
9600	0	CORRELATION	1.1988	1.1987	-0.0001
9700	0	CORRELATION	1.2076	1.2076	0

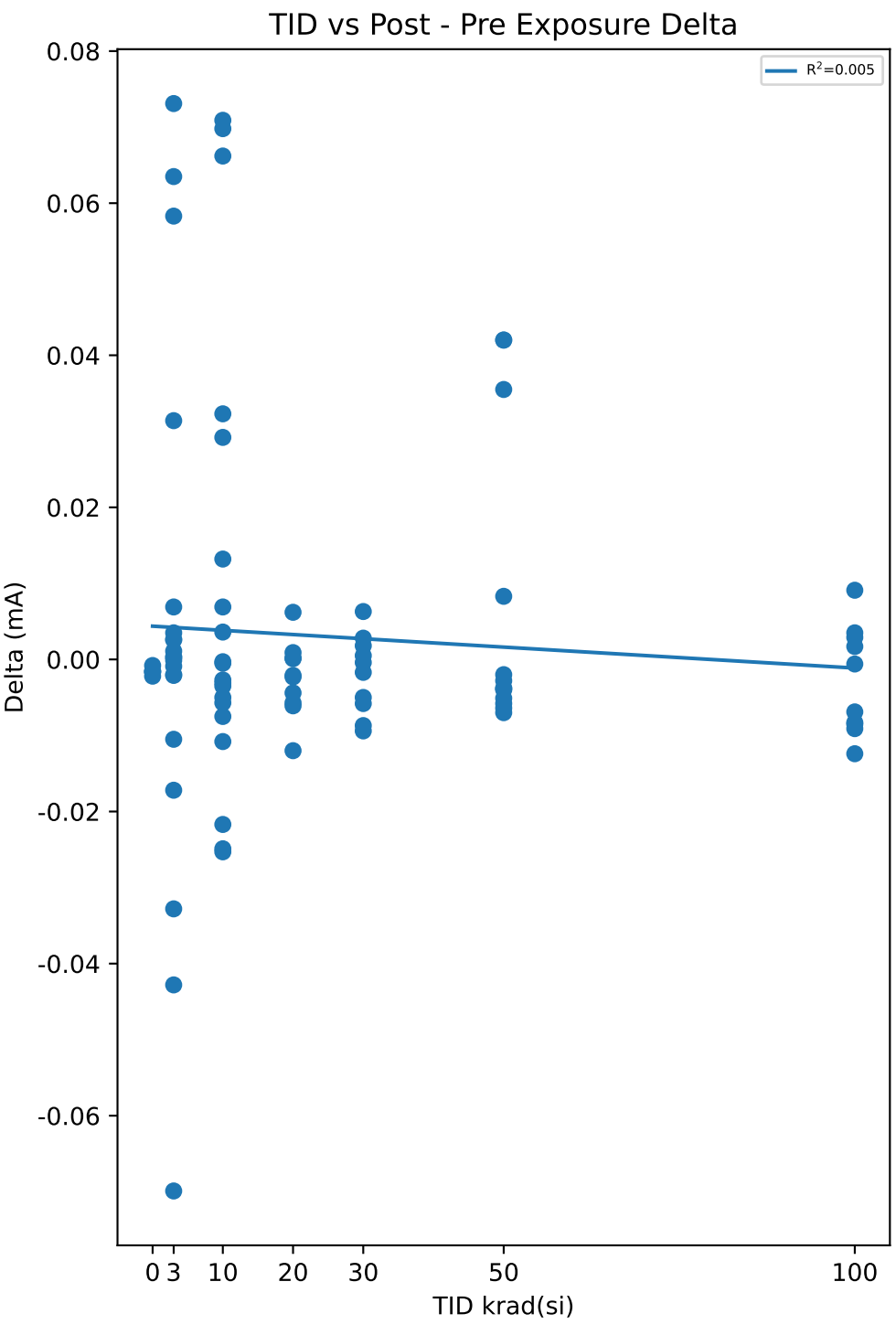


Test Statistics (V)

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	1.1988	1.2031	1.2076	0.0035246	1.1987	1.202	1.2076	0.0034132	-0.0052	-0.00106	0	0.0023147
3	1.2014	1.2033	1.2055	0.0013492	1.1965	1.2033	1.2089	0.0035512	-0.0057	1e-05	0.0075	0.0039566
10	1.1992	1.2033	1.2083	0.0027586	1.198	1.2023	1.205	0.0025918	-0.0074	-0.00101	0.0034	0.0034723
20	1.199	1.2029	1.2079	0.0027082	1.1995	1.2032	1.2073	0.0024887	-0.0009	0.00025	0.005	0.0017174
30	1.1987	1.2037	1.2061	0.0022429	1.1983	1.2037	1.2061	0.0023368	-0.0005	2e-05	0.0009	0.00042635
50	1.2016	1.2041	1.2067	0.0015458	1.2	1.2035	1.2062	0.0017773	-0.0016	-0.00064	-0.0001	0.00045019
100	1.2012	1.2036	1.2062	0.0015472	1.2004	1.2033	1.2068	0.0019678	-0.0016	-0.00027	0.0006	0.00072119

Device Test: 12.3 IQ|STATIC/VIN/4.5////@IQ_VIN





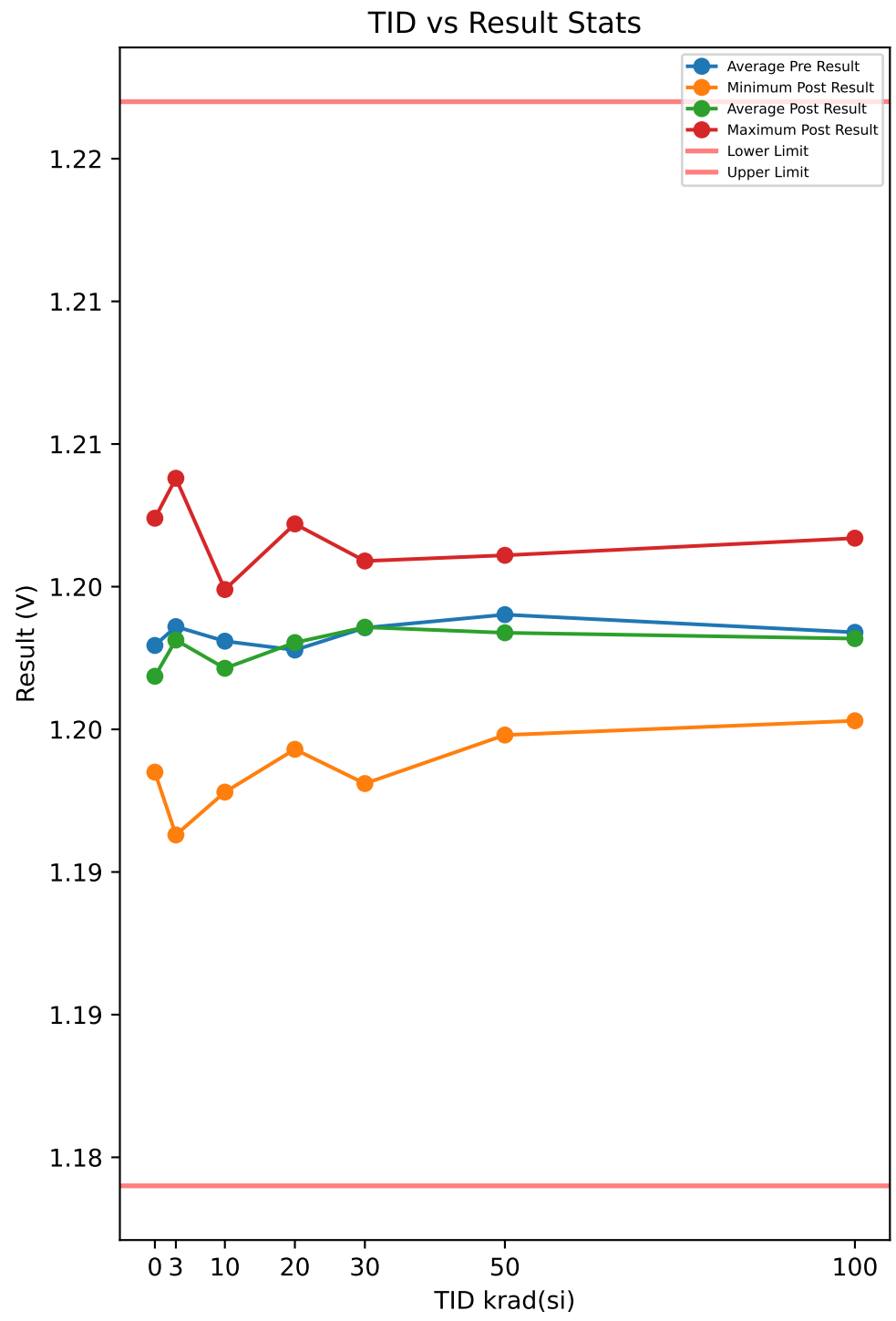
Test Results (Upper Limit = 5.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.6276	2.5948	-0.0328
51	3	Biased	2.6383	2.6697	0.0314
52	3	Biased	2.6699	2.7282	0.0583
53	3	Biased	2.5591	2.6226	0.0635
54	3	Biased	2.5997	2.5892	-0.0105
55	3	Unbiased	2.5844	2.5416	-0.0428
56	3	Unbiased	2.671	2.6779	0.0069
57	3	Unbiased	2.6319	2.705	0.0731
58	3	Unbiased	2.7224	2.6525	-0.0699
59	3	Unbiased	2.6255	2.6083	-0.0172
60	10	Biased	2.6475	2.6226	-0.0249
61	10	Biased	2.6888	2.6635	-0.0253
62	10	Biased	2.5816	2.5948	0.0132
63	10	Biased	2.5841	2.655	0.0709
64	10	Biased	2.5899	2.6222	0.0323
65	10	Unbiased	2.5942	2.6234	0.0292
66	10	Unbiased	2.5937	2.6599	0.0662
67	10	Unbiased	2.7133	2.6916	-0.0217
68	10	Unbiased	2.6574	2.7272	0.0698
69	10	Unbiased	2.6821	2.6713	-0.0108
100	20	Biased	2.6208	2.627	0.0062
200	20	Biased	2.6617	2.6618	0.0001
300	20	Biased	2.5635	2.5578	-0.0057
400	20	Biased	2.6842	2.6819	-0.0023
500	20	Biased	2.6464	2.642	-0.0044
600	20	Unbiased	2.5585	2.5524	-0.0061
700	20	Unbiased	2.6193	2.6172	-0.0021
800	20	Unbiased	2.6033	2.6042	0.0009
900	20	Unbiased	2.6698	2.6578	-0.012
1000	20	Unbiased	2.5755	2.5757	0.0002
1100	30	Biased	2.6396	2.6414	0.0018
1200	30	Biased	2.6197	2.611	-0.0087
1300	30	Biased	2.5875	2.5903	0.0028
1400	30	Biased	2.6033	2.6096	0.0063
1500	30	Biased	2.5341	2.5346	0.0005
1600	30	Unbiased	2.6147	2.613	-0.0017
1700	30	Unbiased	2.6444	2.6386	-0.0058
1800	30	Unbiased	2.5918	2.5914	-0.0004
1900	30	Unbiased	2.6324	2.623	-0.0094
2000	30	Unbiased	2.6258	2.6208	-0.005
2100	50	Biased-84Hr-Anneal	2.5778	2.6198	0.042
2200	50	Biased-84Hr-Anneal	2.5264	2.5619	0.0355
2300	50	Biased-84Hr-Anneal	2.6674	2.6646	-0.0028
2400	50	Biased-84Hr-Anneal	2.6833	2.6916	0.0083
2500	50	Biased-84Hr-Anneal	2.6068	2.6028	-0.004
2600	50	Unbiased	2.7122	2.7058	-0.0064
2700	50	Unbiased	2.6788	2.6737	-0.0051
2800	50	Unbiased	2.7078	2.7008	-0.007
2900	50	Unbiased	2.54	2.538	-0.002
3000	50	Unbiased	2.5812	2.5754	-0.0058
4000	100	Biased-168Hr-Anneal	2.6886	2.6977	0.0091
4100	100	Biased-168Hr-Anneal	2.6727	2.6756	0.0029
4200	100	Biased-168Hr-Anneal	2.6017	2.6052	0.0035
4300	100	Biased-168Hr-Anneal	2.5783	2.5659	-0.0124
4400	100	Biased-168Hr-Anneal	2.6874	2.6891	0.0017
4500	100	Unbiased-168Hr-Anneal	2.6334	2.6243	-0.0091
4600	100	Unbiased-168Hr-Anneal	2.6449	2.6366	-0.0083
4700	100	Unbiased-168Hr-Anneal	2.6657	2.6588	-0.0069
4800	100	Unbiased-168Hr-Anneal	2.6919	2.6834	-0.0085
4900	100	Unbiased-168Hr-Anneal	2.6851	2.6845	-0.0006
9300	0	CORRELATION	2.6223	2.6201	-0.0022
9400	0	CORRELATION	2.5379	2.5363	-0.0016
9500	0	CORRELATION	2.5844	2.5828	-0.0016
9600	0	CORRELATION	2.6056	2.604	-0.0016
9700	0	CORRELATION	2.6861	2.6853	-0.0008

Test Statistics (mA)

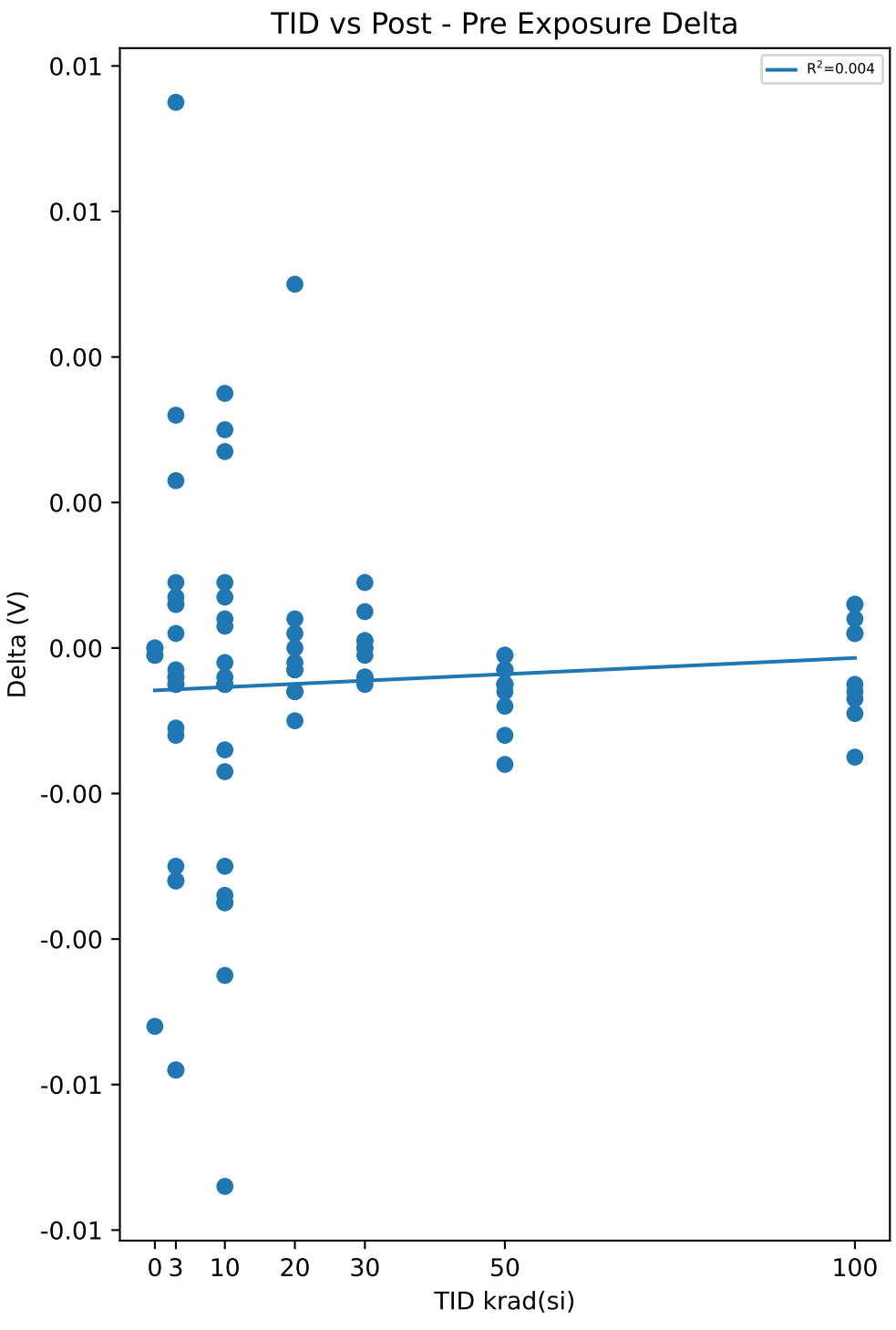
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5379	2.6073	2.6861	0.054263	2.5363	2.6057	2.6853	0.054514	-0.0022	-0.00156	-0.0008	0.000498
3	2.5591	2.633	2.7224	0.046957	2.5416	2.639	2.7282	0.057814	-0.0699	0.006	0.0731	0.049044
10	2.5816	2.6333	2.7133	0.050242	2.5948	2.6532	2.7272	0.038913	-0.0253	0.01989	0.0709	0.039781
20	2.5585	2.6203	2.6842	0.045057	2.5524	2.6178	2.6819	0.044907	-0.012	-0.00252	0.0062	0.0049279
30	2.5341	2.6093	2.6444	0.032602	2.5346	2.6074	2.6414	0.030641	-0.0094	-0.00196	0.0063	0.0051461
50	2.5264	2.6282	2.7122	0.069821	2.538	2.6334	2.7058	0.061885	-0.007	0.00527	0.042	0.018236
100	2.5783	2.655	2.6919	0.039674	2.5659	2.6521	2.6977	0.043099	-0.0124	-0.00286	0.0091	0.007073

Device Test: 12.5 LEVEL|STATIC/REFCAP/4.5////@VBANDGAP



Test Results (Lower Limit = 1.184, Upper Limit = 1.222 (V))

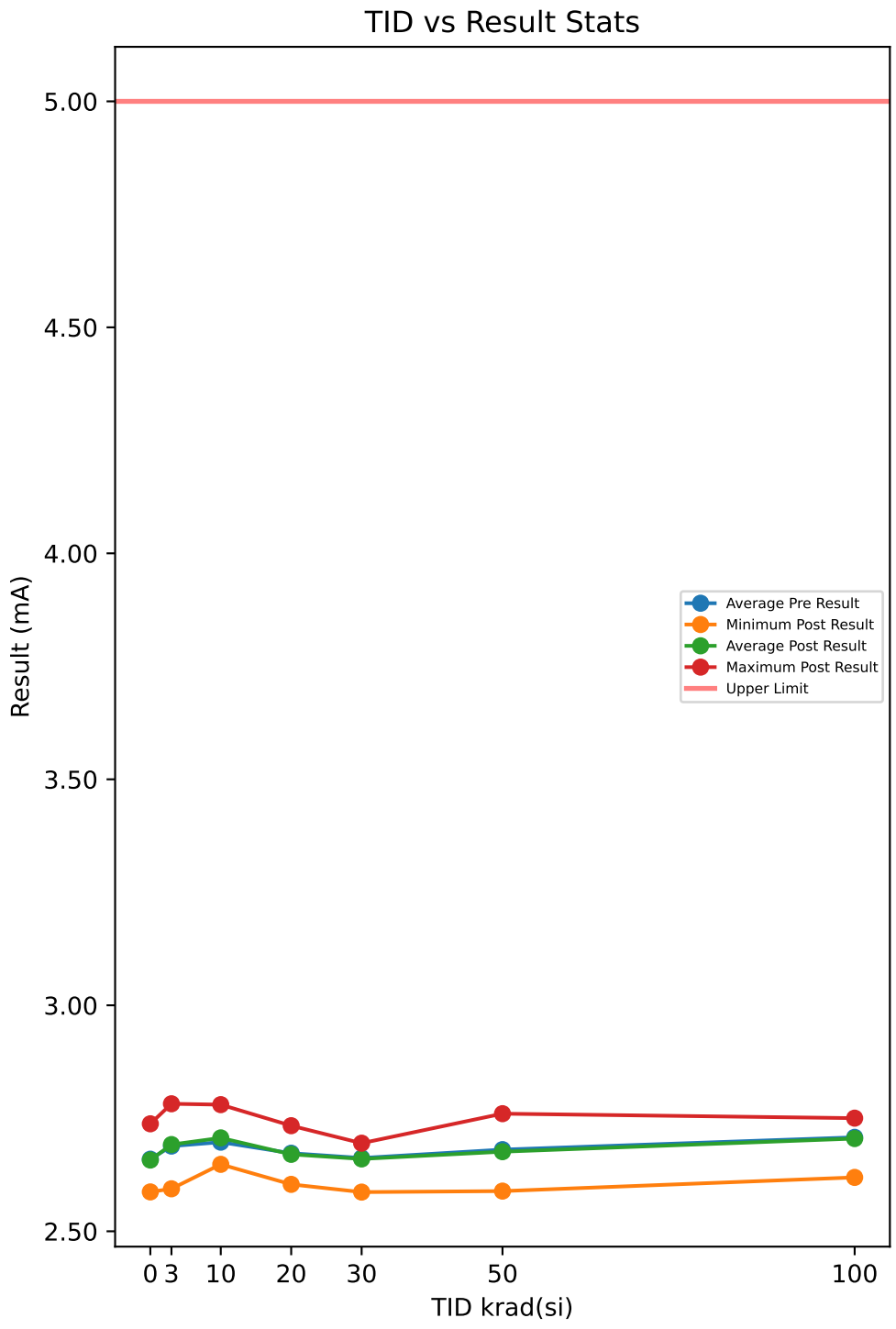
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.2029	1.2018	-0.0011
51	3	Biased	1.2021	1.1963	-0.0058
52	3	Biased	1.2023	1.2019	-0.0004
53	3	Biased	1.2048	1.2057	0.0009
54	3	Biased	1.2035	1.2037	0.0002
55	3	Unbiased	1.2036	1.2068	0.0032
56	3	Unbiased	1.2054	1.1996	-0.0058
57	3	Unbiased	1.204	1.2028	-0.0012
58	3	Unbiased	1.2016	1.2039	0.0023
59	3	Unbiased	1.2013	1.2088	0.0075
60	10	Biased	1.2082	1.2008	-0.0074
61	10	Biased	1.2049	1.2044	-0.0005
62	10	Biased	1.2063	1.2049	-0.0014
63	10	Biased	1.204	1.2038	-0.0002
64	10	Biased	1.2015	1.198	-0.0035
65	10	Unbiased	1.199	1.2017	0.0027
66	10	Unbiased	1.2023	1.1978	-0.0045
67	10	Unbiased	1.2006	1.2036	0.003
68	10	Unbiased	1.2035	1.2018	-0.0017
69	10	Unbiased	1.2011	1.2046	0.0035
100	20	Biased	1.2003	1.2053	0.005
200	20	Biased	1.2078	1.2072	-0.0006
300	20	Biased	1.1996	1.1994	-0.0002
400	20	Biased	1.204	1.2034	-0.0006
500	20	Biased	1.2049	1.2049	0
600	20	Unbiased	1.2035	1.2037	0.0002
700	20	Unbiased	1.1989	1.1993	0.0004
800	20	Unbiased	1.2022	1.2019	-0.0003
900	20	Unbiased	1.2022	1.2019	-0.0003
1000	20	Unbiased	1.2044	1.2034	-0.001
1100	30	Biased	1.2024	1.2024	0
1200	30	Biased	1.1985	1.1981	-0.0004
1300	30	Biased	1.2034	1.2039	0.0005
1400	30	Biased	1.2048	1.2049	0.0001
1500	30	Biased	1.2044	1.2043	-0.0001
1600	30	Unbiased	1.2059	1.2054	-0.0005
1700	30	Unbiased	1.2054	1.205	-0.0004
1800	30	Unbiased	1.2014	1.2015	0.0001
1900	30	Unbiased	1.205	1.2059	0.0009
2000	30	Unbiased	1.2044	1.2044	0
2100	50	Biased-84Hr-Anneal	1.2037	1.2036	-0.0001
2200	50	Biased-84Hr-Anneal	1.203	1.2025	-0.0005
2300	50	Biased-84Hr-Anneal	1.2034	1.2022	-0.0012
2400	50	Biased-84Hr-Anneal	1.2055	1.2047	-0.0008
2500	50	Biased-84Hr-Anneal	1.2053	1.2047	-0.0006
2600	50	Unbiased	1.2066	1.2061	-0.0005
2700	50	Unbiased	1.2048	1.2045	-0.0003
2800	50	Unbiased	1.2041	1.2036	-0.0005
2900	50	Unbiased	1.2014	1.1998	-0.0016
3000	50	Unbiased	1.2024	1.2019	-0.0005
4000	100	Biased-168Hr-Anneal	1.2046	1.2031	-0.0015
4100	100	Biased-168Hr-Anneal	1.2061	1.2067	0.0006
4200	100	Biased-168Hr-Anneal	1.201	1.2003	-0.0007
4300	100	Biased-168Hr-Anneal	1.2015	1.2006	-0.0009
4400	100	Biased-168Hr-Anneal	1.2023	1.2018	-0.0005
4500	100	Unbiased-168Hr-Anneal	1.2045	1.2047	0.0002
4600	100	Unbiased-168Hr-Anneal	1.2039	1.2043	0.0004
4700	100	Unbiased-168Hr-Anneal	1.2041	1.2043	0.0002
4800	100	Unbiased-168Hr-Anneal	1.2029	1.2023	-0.0006
4900	100	Unbiased-168Hr-Anneal	1.2031	1.2037	0.0006
9300	0	CORRELATION	1.2054	1.2002	-0.0052
9400	0	CORRELATION	1.2008	1.2008	0
9500	0	CORRELATION	1.2024	1.2024	0
9600	0	CORRELATION	1.1986	1.1985	-0.0001
9700	0	CORRELATION	1.2075	1.2074	-0.0001



Test Statistics (V)

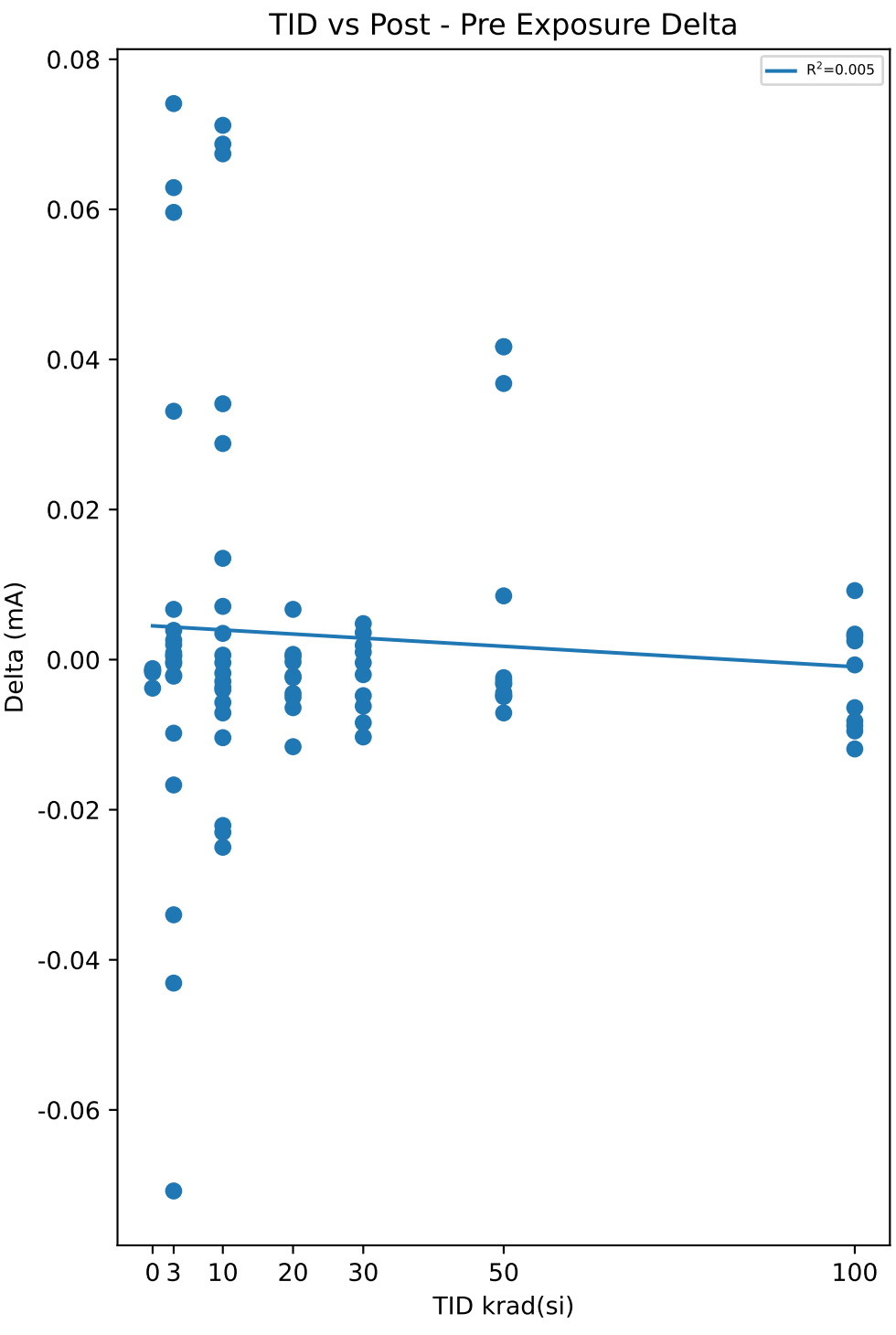
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1986	1.2029	1.2075	0.003555	1.1985	1.2019	1.2074	0.0033968	-0.0052	-0.00108	0	0.0023037
3	1.2013	1.2031	1.2054	0.0013559	1.1963	1.2031	1.2088	0.0035846	-0.0058	-2e-05	0.0075	0.0039821
10	1.199	1.2031	1.2082	0.0028029	1.1978	1.2021	1.2049	0.0026192	-0.0074	-0.001	0.0035	0.0035109
20	1.1989	1.2028	1.2078	0.0027145	1.1993	1.203	1.2072	0.0025034	-0.001	0.00026	0.005	0.0017148
30	1.1985	1.2036	1.2059	0.002249	1.1981	1.2036	1.2059	0.0023451	-0.0005	2e-05	0.0009	0.00042895
50	1.2014	1.204	1.2066	0.0015676	1.1998	1.2034	1.2061	0.0018075	-0.0016	-0.00066	-0.0001	0.0004402
100	1.201	1.2034	1.2061	0.0015492	1.2003	1.2032	1.2067	0.0019753	-0.0015	-0.00022	0.0006	0.00071771

Device Test: 12.8 IQ|STATIC/VIN/5////@IQ_VIN



Test Results (Upper Limit = 5.0 (mA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	2.6811	2.6471	-0.034
51	3	Biased	2.6895	2.7226	0.0331
52	3	Biased	2.7225	2.7821	0.0596
53	3	Biased	2.6124	2.6753	0.0629
54	3	Biased	2.6525	2.6427	-0.0098
55	3	Unbiased	2.6371	2.594	-0.0431
56	3	Unbiased	2.724	2.7307	0.0067
57	3	Unbiased	2.6843	2.7584	0.0741
58	3	Unbiased	2.7754	2.7046	-0.0708
59	3	Unbiased	2.678	2.6613	-0.0167
60	10	Biased	2.6993	2.6763	-0.023
61	10	Biased	2.7421	2.7171	-0.025
62	10	Biased	2.6346	2.6481	0.0135
63	10	Biased	2.6377	2.7089	0.0712
64	10	Biased	2.6415	2.6756	0.0341
65	10	Unbiased	2.6475	2.6763	0.0288
66	10	Unbiased	2.6461	2.7135	0.0674
67	10	Unbiased	2.767	2.7449	-0.0221
68	10	Unbiased	2.7115	2.7802	0.0687
69	10	Unbiased	2.7357	2.7253	-0.0104
100	20	Biased	2.6734	2.6801	0.0067
200	20	Biased	2.7147	2.7151	0.0004
300	20	Biased	2.6164	2.6114	-0.005
400	20	Biased	2.7358	2.7336	-0.0022
500	20	Biased	2.6984	2.6939	-0.0045
600	20	Unbiased	2.6102	2.6038	-0.0064
700	20	Unbiased	2.6722	2.6698	-0.0024
800	20	Unbiased	2.656	2.6567	0.0007
900	20	Unbiased	2.7223	2.7107	-0.0116
1000	20	Unbiased	2.6276	2.6273	-0.0003
1100	30	Biased	2.693	2.6949	0.0019
1200	30	Biased	2.6716	2.6632	-0.0084
1300	30	Biased	2.6396	2.6432	0.0036
1400	30	Biased	2.6564	2.6612	0.0048
1500	30	Biased	2.5857	2.5867	0.001
1600	30	Unbiased	2.667	2.665	-0.002
1700	30	Unbiased	2.6984	2.6922	-0.0062
1800	30	Unbiased	2.6451	2.6447	-0.0004
1900	30	Unbiased	2.6861	2.6758	-0.0103
2000	30	Unbiased	2.6787	2.6739	-0.0048
2100	50	Biased-84Hr-Anneal	2.6305	2.6722	0.0417
2200	50	Biased-84Hr-Anneal	2.5783	2.6151	0.0368
2300	50	Biased-84Hr-Anneal	2.7198	2.7174	-0.0024
2400	50	Biased-84Hr-Anneal	2.7368	2.7453	0.0085
2500	50	Biased-84Hr-Anneal	2.6597	2.655	-0.0047
2600	50	Unbiased	2.7651	2.7602	-0.0049
2700	50	Unbiased	2.7313	2.7269	-0.0044
2800	50	Unbiased	2.7604	2.7533	-0.0071
2900	50	Unbiased	2.5917	2.5889	-0.0028
3000	50	Unbiased	2.6331	2.6282	-0.0049
4000	100	Biased-168Hr-Anneal	2.7411	2.7503	0.0092
4100	100	Biased-168Hr-Anneal	2.7258	2.7289	0.0031
4200	100	Biased-168Hr-Anneal	2.6549	2.6583	0.0034
4300	100	Biased-168Hr-Anneal	2.6311	2.6192	-0.0119
4400	100	Biased-168Hr-Anneal	2.7403	2.7428	0.0025
4500	100	Unbiased-168Hr-Anneal	2.6862	2.6767	-0.0095
4600	100	Unbiased-168Hr-Anneal	2.6983	2.6895	-0.0088
4700	100	Unbiased-168Hr-Anneal	2.7193	2.7129	-0.0064
4800	100	Unbiased-168Hr-Anneal	2.7446	2.7364	-0.0082
4900	100	Unbiased-168Hr-Anneal	2.7371	2.7364	-0.0007
9300	0	CORRELATION	2.6755	2.6717	-0.0038
9400	0	CORRELATION	2.5883	2.5871	-0.0012
9500	0	CORRELATION	2.6364	2.6347	-0.0017
9600	0	CORRELATION	2.6581	2.6566	-0.0015
9700	0	CORRELATION	2.7392	2.7378	-0.0014

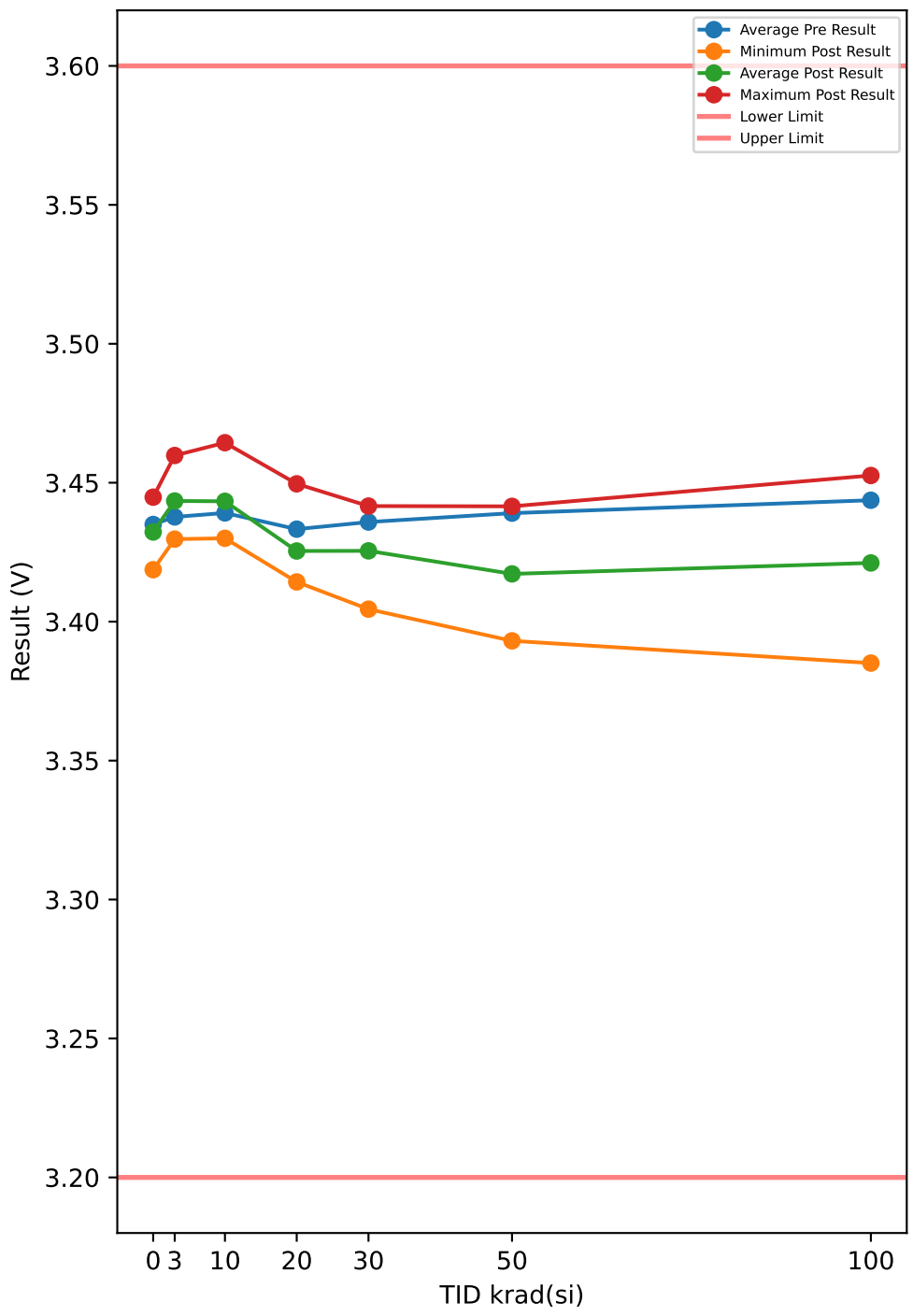


Test Statistics (mA)

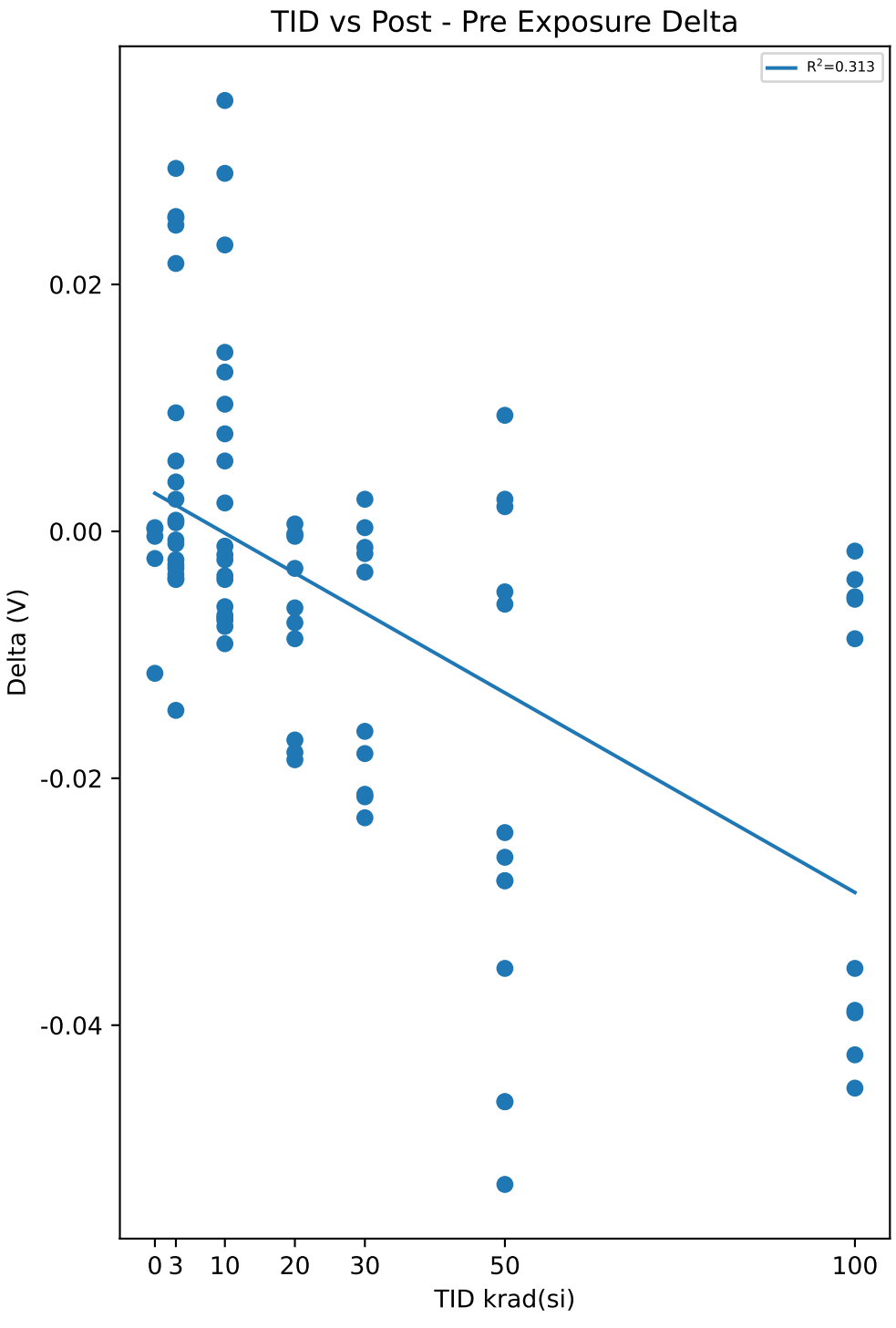
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.5883	2.6595	2.7392	0.055256	2.5871	2.6576	2.7378	0.05506	-0.0038	-0.00192	-0.0012	0.0010663
3	2.6124	2.6857	2.7754	0.046906	2.594	2.6919	2.7821	0.058111	-0.0708	0.0062	0.0741	0.049617
10	2.6346	2.6863	2.767	0.05059	2.6481	2.7066	2.7802	0.038896	-0.025	0.02032	0.0712	0.03962
20	2.6102	2.6727	2.7358	0.045038	2.6038	2.6702	2.7336	0.045	-0.0116	-0.00246	0.0067	0.0049045
30	2.5857	2.6622	2.6984	0.033171	2.5867	2.6601	2.6949	0.030954	-0.0103	-0.00208	0.0048	0.0051601
50	2.5783	2.6807	2.7651	0.070194	2.5889	2.6863	2.7602	0.062501	-0.0071	0.00558	0.0417	0.01828
100	2.6311	2.7079	2.7446	0.039542	2.6192	2.7051	2.7503	0.043037	-0.0119	-0.00273	0.0092	0.0071143

Device Test: 14.1 THRESHOLD|RISE/PVIN/4.5////@UVLO_RISE_PVIN

TID vs Result Stats



TID vs Post - Pre Exposure Delta



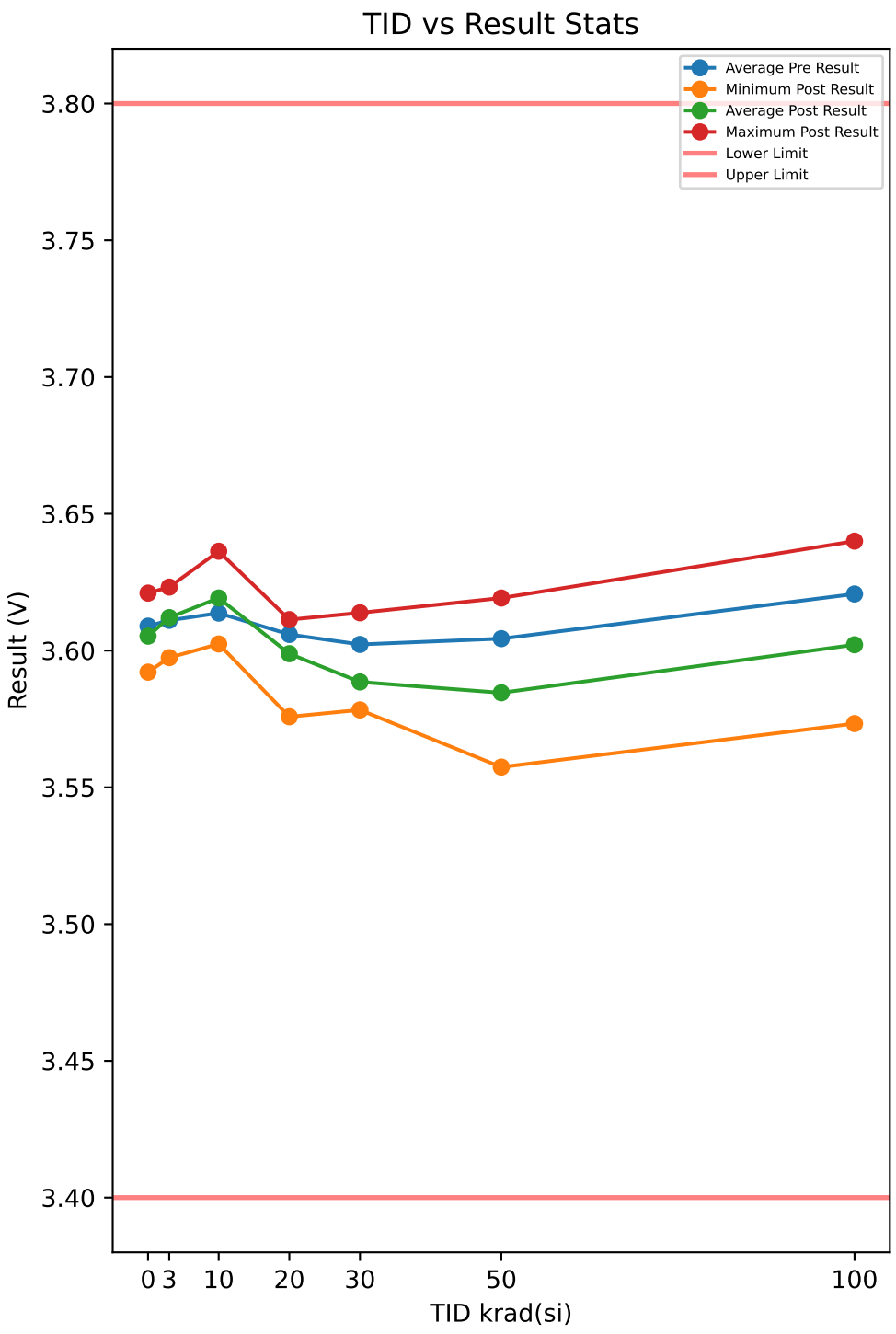
Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.4331	3.4371	0.004
51	3	Biased	3.4294	3.4511	0.0217
52	3	Biased	3.4442	3.4297	-0.0145
53	3	Biased	3.4276	3.4372	0.0096
54	3	Biased	3.4279	3.4533	0.0254
55	3	Unbiased	3.4191	3.4485	0.0294
56	3	Unbiased	3.4367	3.4424	0.0057
57	3	Unbiased	3.4198	3.4446	0.0248
58	3	Unbiased	3.4344	3.4306	-0.0038
59	3	Unbiased	3.4343	3.4598	0.0255
60	10	Biased	3.4442	3.4372	-0.007
61	10	Biased	3.4318	3.4375	0.0057
62	10	Biased	3.4256	3.4335	0.0079
63	10	Biased	3.4314	3.4417	0.0103
64	10	Biased	3.4345	3.4326	-0.0019
65	10	Unbiased	3.4253	3.4602	0.0349
66	10	Unbiased	3.4428	3.4557	0.0129
67	10	Unbiased	3.4259	3.4404	0.0145
68	10	Unbiased	3.4354	3.4644	0.029
69	10	Unbiased	3.4068	3.43	0.0232
100	20	Biased	3.4192	3.4162	-0.003
200	20	Biased	3.4376	3.4191	-0.0185
300	20	Biased	3.4327	3.4148	-0.0179
400	20	Biased	3.4312	3.4143	-0.0169
500	20	Biased	3.447	3.4383	-0.0087
600	20	Unbiased	3.4558	3.4496	-0.0062
700	20	Unbiased	3.4275	3.4273	-0.0002
800	20	Unbiased	3.4319	3.4315	-0.0004
900	20	Unbiased	3.4227	3.4233	0.0006
1000	20	Unbiased	3.4273	3.4199	-0.0074
1100	30	Biased	3.4281	3.4068	-0.0213
1200	30	Biased	3.4283	3.4103	-0.018
1300	30	Biased	3.447	3.4238	-0.0232
1400	30	Biased	3.426	3.4045	-0.0215
1500	30	Biased	3.4512	3.435	-0.0162
1600	30	Unbiased	3.4449	3.4416	-0.0033
1700	30	Unbiased	3.4279	3.4305	0.0026
1800	30	Unbiased	3.4373	3.4376	0.0003
1900	30	Unbiased	3.4324	3.4306	-0.0018
2000	30	Unbiased	3.4354	3.4341	-0.0013
2100	50	Biased-84Hr-Anneal	3.4393	3.3931	-0.0462
2200	50	Biased-84Hr-Anneal	3.4494	3.3965	-0.0529
2300	50	Biased-84Hr-Anneal	3.4575	3.4221	-0.0354
2400	50	Biased-84Hr-Anneal	3.427	3.4026	-0.0244
2500	50	Biased-84Hr-Anneal	3.4295	3.4031	-0.0264
2600	50	Unbiased	3.4409	3.435	-0.0059
2700	50	Unbiased	3.4382	3.4408	0.0026
2800	50	Unbiased	3.4299	3.4393	0.0094
2900	50	Unbiased	3.4324	3.4344	0.002
3000	50	Unbiased	3.4464	3.4415	-0.0049
4000	100	Biased-168Hr-Anneal	3.4302	3.3851	-0.0451
4100	100	Biased-168Hr-Anneal	3.4337	3.3983	-0.0354
4200	100	Biased-168Hr-Anneal	3.437	3.398	-0.039
4300	100	Biased-168Hr-Anneal	3.4415	3.4027	-0.0388
4400	100	Biased-168Hr-Anneal	3.4507	3.4083	-0.0424
4500	100	Unbiased-168Hr-Anneal	3.448	3.4393	-0.0087
4600	100	Unbiased-168Hr-Anneal	3.4421	3.4405	-0.0016
4700	100	Unbiased-168Hr-Anneal	3.4399	3.4346	-0.0053
4800	100	Unbiased-168Hr-Anneal	3.4581	3.4526	-0.0055
4900	100	Unbiased-168Hr-Anneal	3.4558	3.4519	-0.0039
9300	0	CORRELATION	3.4302	3.4187	-0.0115
9400	0	CORRELATION	3.4421	3.4423	0.0002
9500	0	CORRELATION	3.4452	3.4448	-0.0004
9600	0	CORRELATION	3.4188	3.4191	0.0003
9700	0	CORRELATION	3.4386	3.4364	-0.0022

Test Statistics (V)

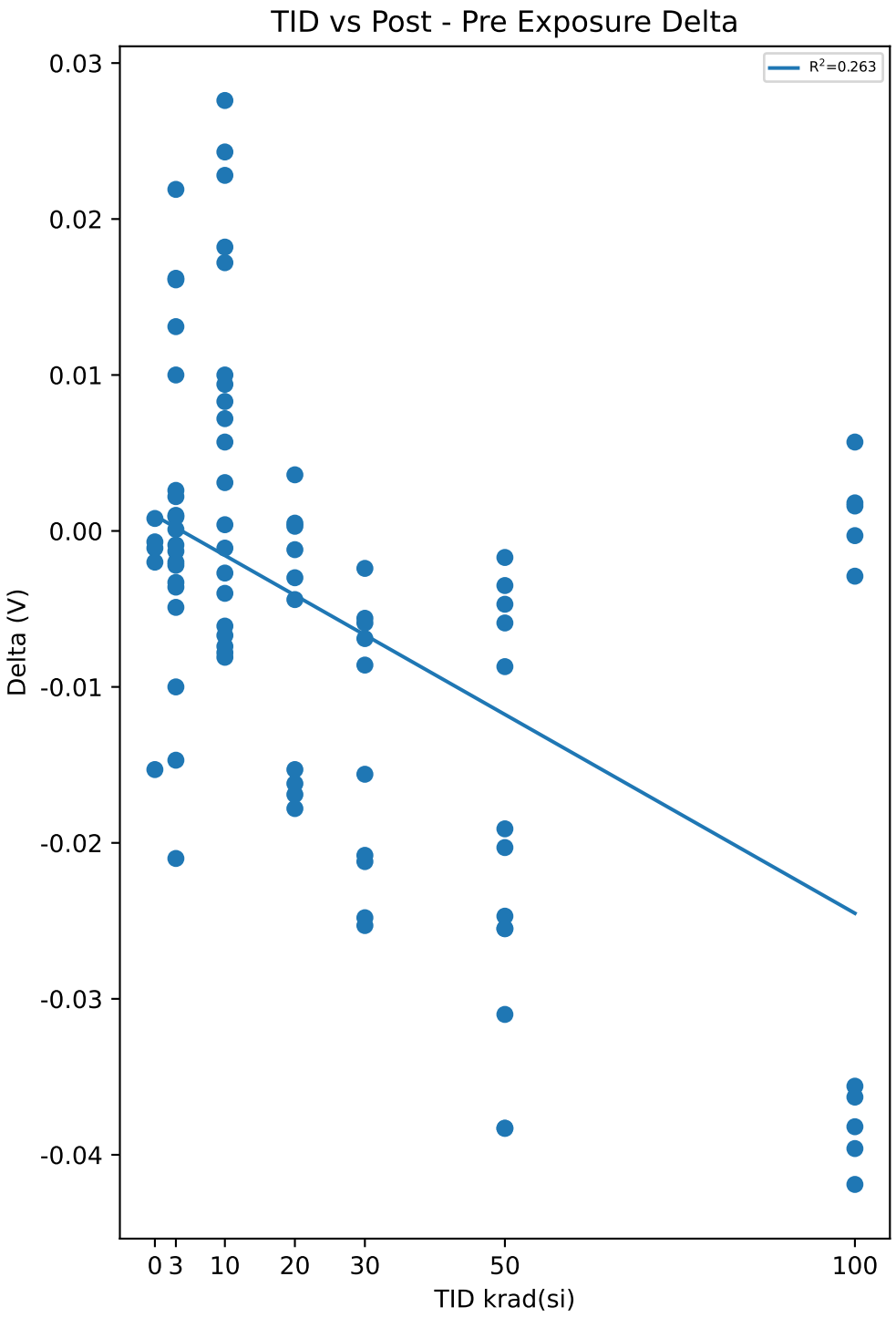
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4188	3.435	3.4452	0.010641	3.4187	3.4323	3.4448	0.012572	-0.0115	-0.00272	0.0003	0.0050097
3	3.4191	3.4306	3.4442	0.0076241	3.4297	3.4434	3.4598	0.0099127	-0.0145	0.01278	0.0294	0.014824
10	3.4068	3.4304	3.4442	0.010621	3.43	3.4433	3.4644	0.012265	-0.007	0.01295	0.0349	0.013125
20	3.4192	3.4333	3.4558	0.011055	3.4143	3.4254	3.4496	0.011486	-0.0185	-0.00786	0.0006	0.0075198
30	3.426	3.4358	3.4512	0.0090268	3.4045	3.4255	3.4416	0.013521	-0.0232	-0.01037	0.0026	0.010477
50	3.427	3.4391	3.4575	0.0098325	3.3931	3.4208	3.4415	0.019892	-0.0529	-0.01821	0.0094	0.021909
100	3.4302	3.4437	3.4581	0.0092511	3.3851	3.4211	3.4526	0.025128	-0.0451	-0.02257	-0.0016	0.018765

Device Test: 14.10 THRESHOLD|RISE/VIN/5////@UVLO_RISE_VIN



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

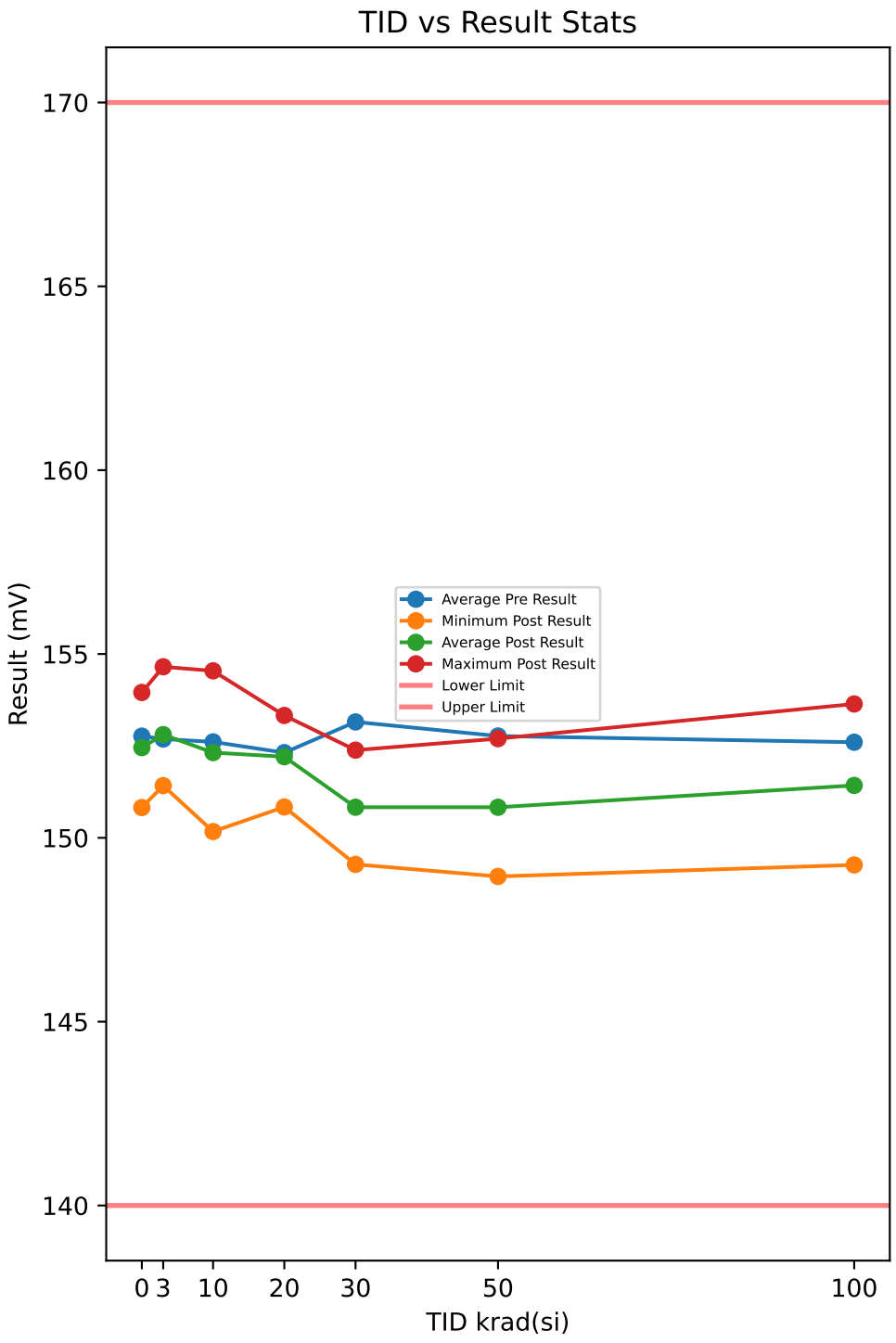
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.6177	3.603	-0.0147
51	3	Biased	3.6039	3.6201	0.0162
52	3	Biased	3.6253	3.6043	-0.021
53	3	Biased	3.6002	3.5993	-0.0009
54	3	Biased	3.6074	3.5974	-0.01
55	3	Unbiased	3.6018	3.6118	0.01
56	3	Unbiased	3.6206	3.6232	0.0026
57	3	Unbiased	3.6033	3.6194	0.0161
58	3	Unbiased	3.6096	3.6227	0.0131
59	3	Unbiased	3.5974	3.6193	0.0219
60	10	Biased	3.6088	3.6188	0.01
61	10	Biased	3.6064	3.6121	0.0057
62	10	Biased	3.613	3.6224	0.0094
63	10	Biased	3.5852	3.6024	0.0172
64	10	Biased	3.6097	3.6169	0.0072
65	10	Unbiased	3.5999	3.6227	0.0228
66	10	Unbiased	3.6087	3.6363	0.0276
67	10	Unbiased	3.6139	3.6321	0.0182
68	10	Unbiased	3.5938	3.6181	0.0243
69	10	Unbiased	3.602	3.6103	0.0083
100	20	Biased	3.5934	3.597	0.0036
200	20	Biased	3.5927	3.5758	-0.0169
300	20	Biased	3.6133	3.5971	-0.0162
400	20	Biased	3.5922	3.5769	-0.0153
500	20	Biased	3.6211	3.6033	-0.0178
600	20	Unbiased	3.6143	3.6099	-0.0044
700	20	Unbiased	3.6108	3.6113	0.0005
800	20	Unbiased	3.6038	3.6008	-0.003
900	20	Unbiased	3.6064	3.6067	0.0003
1000	20	Unbiased	3.6109	3.6097	-0.0012
1100	30	Biased	3.5939	3.5783	-0.0156
1200	30	Biased	3.6041	3.5793	-0.0248
1300	30	Biased	3.6102	3.5894	-0.0208
1400	30	Biased	3.6077	3.5824	-0.0253
1500	30	Biased	3.6008	3.5796	-0.0212
1600	30	Unbiased	3.6197	3.6138	-0.0059
1700	30	Unbiased	3.5986	3.5917	-0.0069
1800	30	Unbiased	3.603	3.5974	-0.0056
1900	30	Unbiased	3.5893	3.5869	-0.0024
2000	30	Unbiased	3.595	3.5864	-0.0086
2100	50	Biased-84Hr-Anneal	3.601	3.5627	-0.0383
2200	50	Biased-84Hr-Anneal	3.606	3.5869	-0.0191
2300	50	Biased-84Hr-Anneal	3.6138	3.5891	-0.0247
2400	50	Biased-84Hr-Anneal	3.5839	3.5636	-0.0203
2500	50	Biased-84Hr-Anneal	3.5884	3.5574	-0.031
2600	50	Unbiased	3.614	3.6123	-0.0017
2700	50	Unbiased	3.6239	3.6192	-0.0047
2800	50	Unbiased	3.6028	3.5941	-0.0087
2900	50	Unbiased	3.5895	3.5836	-0.0059
3000	50	Unbiased	3.6202	3.6167	-0.0035
4000	100	Biased-168Hr-Anneal	3.6193	3.5797	-0.0396
4100	100	Biased-168Hr-Anneal	3.6089	3.5733	-0.0356
4200	100	Biased-168Hr-Anneal	3.6159	3.5796	-0.0363
4300	100	Biased-168Hr-Anneal	3.6192	3.581	-0.0382
4400	100	Biased-168Hr-Anneal	3.6249	3.583	-0.0419
4500	100	Unbiased-168Hr-Anneal	3.6343	3.64	0.0057
4600	100	Unbiased-168Hr-Anneal	3.6173	3.6189	0.0016
4700	100	Unbiased-168Hr-Anneal	3.6153	3.6124	-0.0029
4800	100	Unbiased-168Hr-Anneal	3.6184	3.6202	0.0018
4900	100	Unbiased-168Hr-Anneal	3.6333	3.633	-0.0003
9300	0	CORRELATION	3.6074	3.5921	-0.0153
9400	0	CORRELATION	3.5967	3.5975	0.0008
9500	0	CORRELATION	3.6085	3.6074	-0.0011
9600	0	CORRELATION	3.609	3.6083	-0.0007
9700	0	CORRELATION	3.623	3.621	-0.002

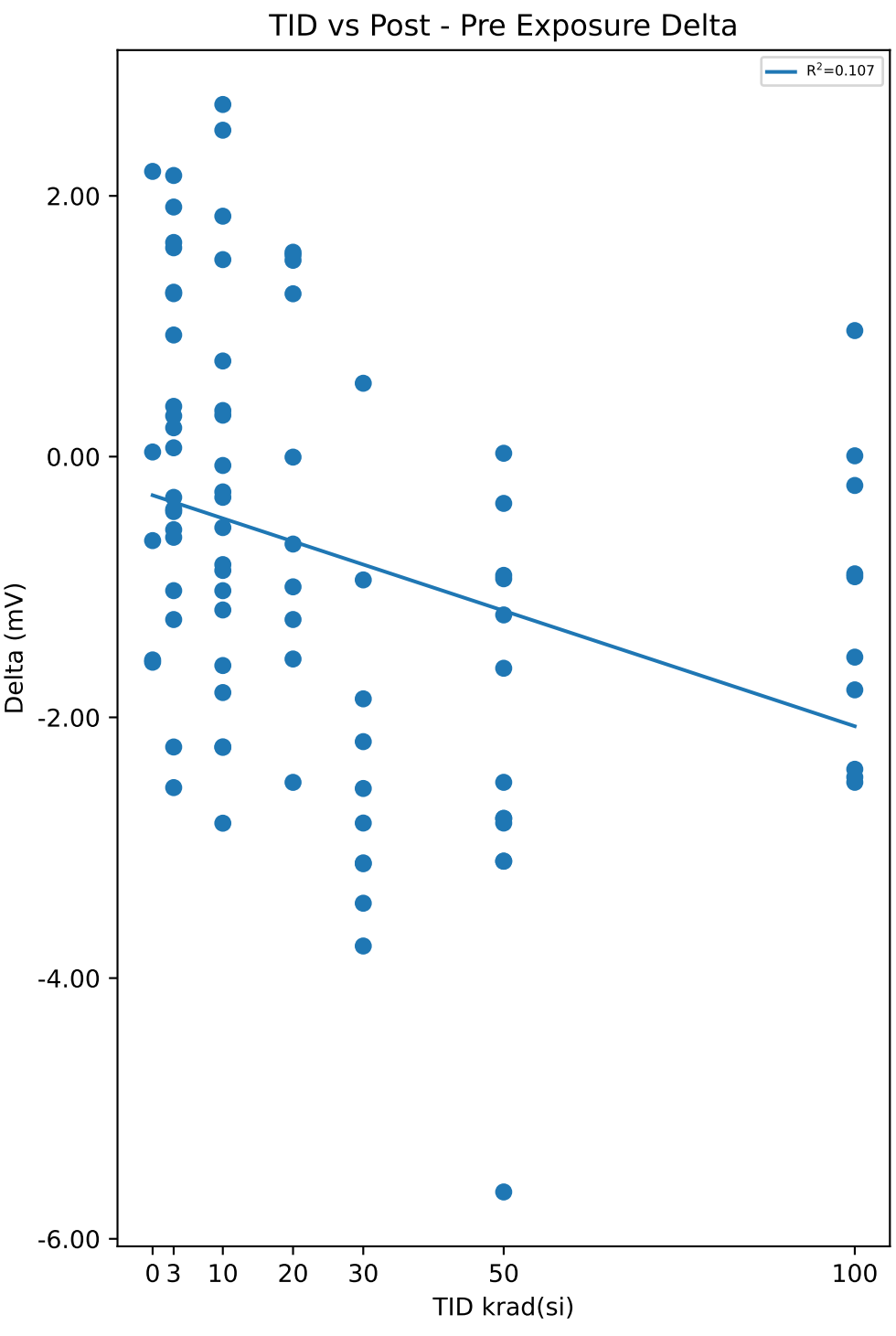


Test Statistics (V)

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	3.5967	3.6089	3.623	0.0093551	3.5921	3.6053	3.621	0.011124	-0.0153	-0.00366	0.0008	0.0065851
3	3.5974	3.6087	3.6253	0.0094305	3.5974	3.612	3.6232	0.010156	-0.021	0.00333	0.0219	0.014631
10	3.5852	3.6041	3.6139	0.0090706	3.6024	3.6192	3.6363	0.009999	0.0057	0.01507	0.0276	0.0079561
20	3.5922	3.6059	3.6211	0.010156	3.5758	3.5989	3.6113	0.012908	-0.0178	-0.00704	0.0036	0.0084752
30	3.5893	3.6022	3.6197	0.0088619	3.5783	3.5885	3.6138	0.010762	-0.0253	-0.01371	-0.0024	0.008784
50	3.5839	3.6044	3.6239	0.013846	3.5574	3.5886	3.6192	0.022645	-0.0383	-0.01579	-0.0017	0.012777
100	3.6089	3.6207	3.6343	0.0079851	3.5733	3.6021	3.64	0.025286	-0.0419	-0.01857	0.0057	0.020993

Device Test: 14.12 THRESHOLD|HYST/VIN/5////@UVLO_HYST_VIN





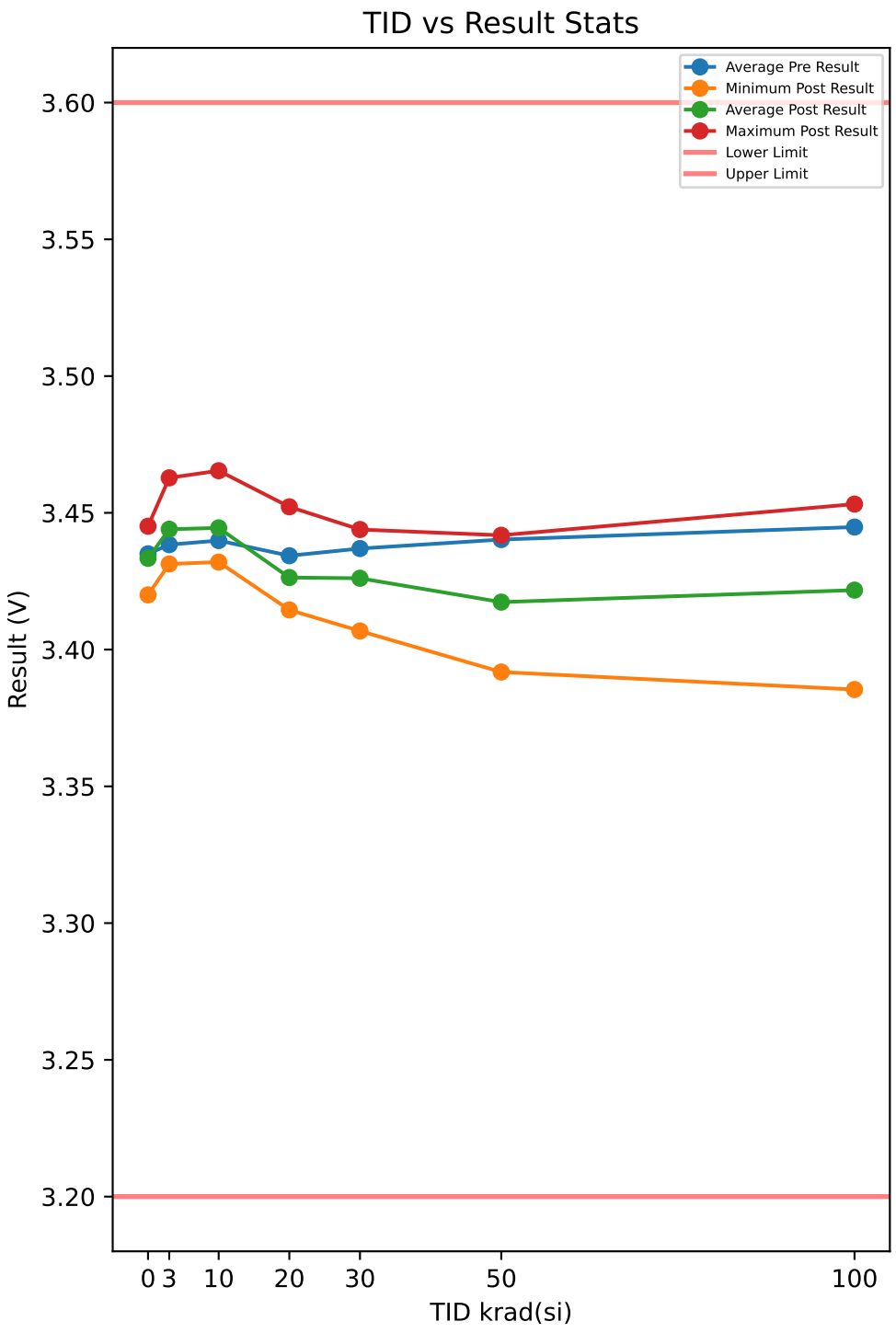
Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	152.45	151.42	-1.0281
51	3	Biased	152.7	153.96	1.2612
52	3	Biased	151.45	151.84	0.3855
53	3	Biased	152.4	151.84	-0.5603
54	3	Biased	152.76	152.36	-0.4041
55	3	Unbiased	153.01	154.65	1.6427
56	3	Unbiased	154.58	153.96	-0.6189
57	3	Unbiased	152.09	153.02	0.9329
58	3	Unbiased	152.13	152.36	0.2212
59	3	Unbiased	150.51	152.67	2.1565
60	10	Biased	151.14	153.65	2.5038
61	10	Biased	151.78	150.9	-0.8731
62	10	Biased	153.07	152.04	-1.0283
63	10	Biased	153.01	152.47	-0.5443
64	10	Biased	152.39	152.71	0.3178
65	10	Unbiased	152.4	150.17	-2.2302
66	10	Unbiased	152.14	153.65	1.5111
67	10	Unbiased	152.7	154.54	1.8442
68	10	Unbiased	152.7	151.53	-1.1762
69	10	Unbiased	153.34	151.53	-1.8098
100	20	Biased	152.09	152.09	-0.0038
200	20	Biased	151.51	150.84	-0.6707
300	20	Biased	153.01	151.76	-1.2496
400	20	Biased	152.08	153.33	1.2491
500	20	Biased	153.34	150.84	-2.4986
600	20	Unbiased	153.07	152.07	-0.9988
700	20	Unbiased	150.82	152.39	1.5679
800	20	Unbiased	153.95	152.4	-1.5524
900	20	Unbiased	151.46	153.01	1.5457
1000	20	Unbiased	151.82	153.33	1.5058
1100	30	Biased	152.7	150.84	-1.858
1200	30	Biased	154.27	150.51	-3.7539
1300	30	Biased	152.71	151.77	-0.9458
1400	30	Biased	153.7	151.15	-2.5456
1500	30	Biased	153.32	151.14	-2.1863
1600	30	Unbiased	154.58	151.45	-3.1229
1700	30	Unbiased	152.09	149.28	-2.8107
1800	30	Unbiased	151.82	152.38	0.5627
1900	30	Unbiased	152.7	149.58	-3.1163
2000	30	Unbiased	153.64	150.21	-3.4258
2100	50	Biased-84Hr-Anneal	153.61	150.51	-3.1032
2200	50	Biased-84Hr-Anneal	152.05	152.08	0.0257
2300	50	Biased-84Hr-Anneal	152.37	151.45	-0.9108
2400	50	Biased-84Hr-Anneal	151.12	149.9	-1.2143
2500	50	Biased-84Hr-Anneal	154.59	148.95	-5.6405
2600	50	Unbiased	151.51	151.15	-0.3588
2700	50	Unbiased	153.63	152.7	-0.9368
2800	50	Unbiased	153.02	150.21	-2.8107
2900	50	Unbiased	153.65	151.15	-2.4984
3000	50	Unbiased	152.13	150.51	-1.6234
4000	100	Biased-168Hr-Anneal	152.7	152.7	0.0062
4100	100	Biased-168Hr-Anneal	152.05	149.59	-2.4583
4200	100	Biased-168Hr-Anneal	151.99	149.59	-2.3982
4300	100	Biased-168Hr-Anneal	152.67	153.64	0.9668
4400	100	Biased-168Hr-Anneal	151.76	149.26	-2.4982
4500	100	Unbiased-168Hr-Anneal	152.61	152.39	-0.2213
4600	100	Unbiased-168Hr-Anneal	152.67	151.14	-1.5381
4700	100	Unbiased-168Hr-Anneal	152.61	150.82	-1.7891
4800	100	Unbiased-168Hr-Anneal	153.63	152.71	-0.9213
4900	100	Unbiased-168Hr-Anneal	153.3	152.4	-0.8991
9300	0	CORRELATION	152.4	150.82	-1.5771
9400	0	CORRELATION	151.77	153.95	2.1878
9500	0	CORRELATION	153.3	153.34	0.0355
9600	0	CORRELATION	152.72	152.07	-0.6442
9700	0	CORRELATION	153.64	152.08	-1.5595

Test Statistics (mV)

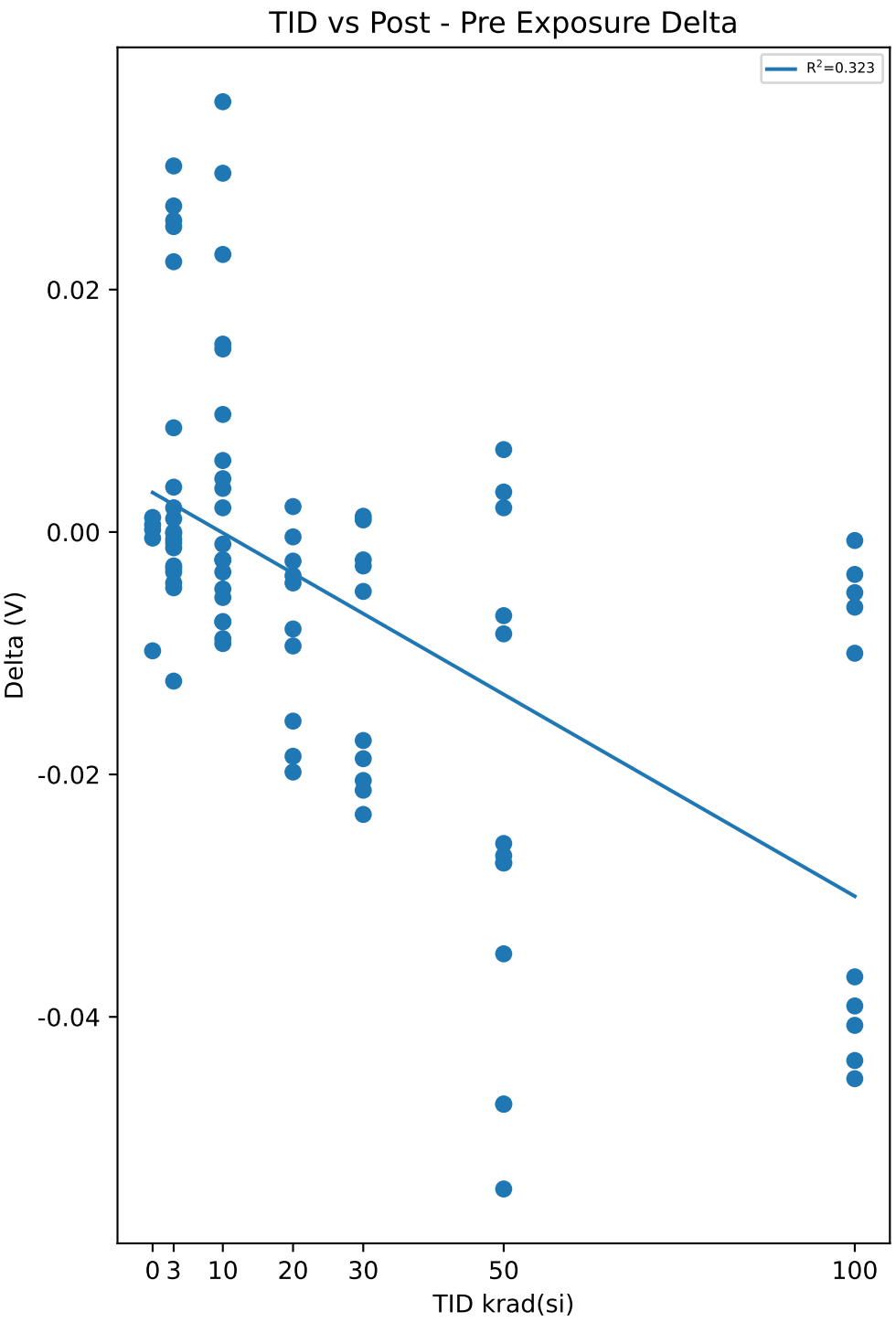
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	151.77	152.76	153.64	0.73935	150.82	152.45	153.95	1.2219	-1.5771	-0.3115	2.1878	1.5522
3	150.51	152.41	154.58	1.052	151.42	152.81	154.65	1.071	-1.0281	0.39886	2.1565	1.0715
10	151.14	152.47	153.34	0.65655	150.17	152.32	154.54	1.3574	-2.2302	-0.1485	2.5038	1.6187
20	150.82	152.32	153.95	0.98484	150.84	152.21	153.33	0.89467	-2.4986	-0.11054	1.5679	1.4987
30	151.82	153.15	154.58	0.90315	149.28	150.83	152.38	0.96219	-3.7539	-2.3203	0.5627	1.3029
50	151.12	152.77	154.59	1.1061	148.95	150.86	152.7	1.0864	-5.6405	-1.9071	0.0257	1.6721
100	151.76	152.6	153.63	0.57375	149.26	151.43	153.64	1.5615	-2.4982	-1.1751	0.9668	1.1755

Device Test: 14.13 THRESHOLD|RISE/PVIN/12////@UVLO_RISE_PVIN



Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

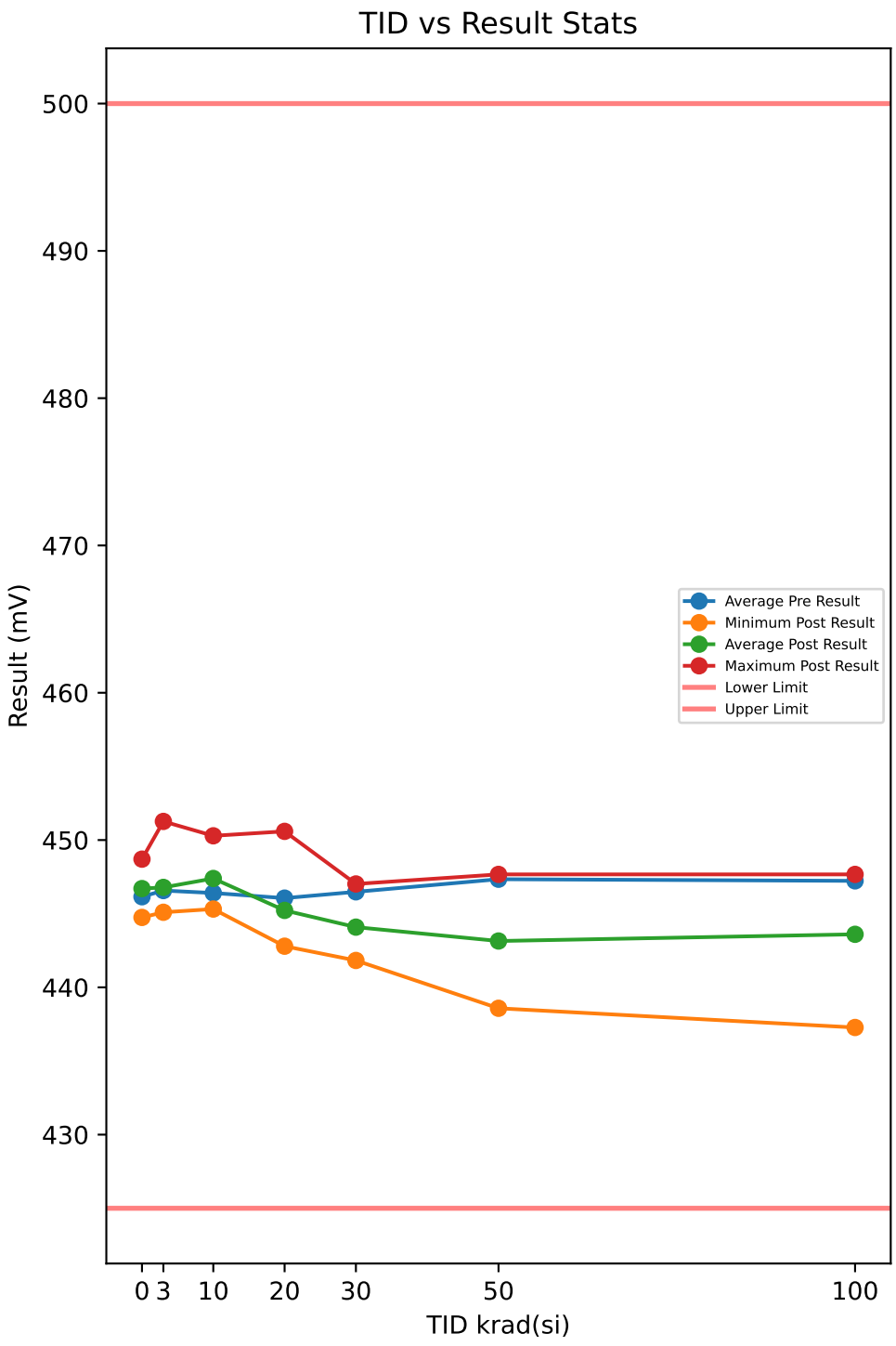
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.4344	3.4355	0.0011
51	3	Biased	3.4298	3.4521	0.0223
52	3	Biased	3.4436	3.4313	-0.0123
53	3	Biased	3.4292	3.4378	0.0086
54	3	Biased	3.4286	3.4543	0.0257
55	3	Unbiased	3.4187	3.4489	0.0302
56	3	Unbiased	3.4374	3.4411	0.0037
57	3	Unbiased	3.4194	3.4446	0.0252
58	3	Unbiased	3.4344	3.4316	-0.0028
59	3	Unbiased	3.4359	3.4628	0.0269
60	10	Biased	3.4445	3.4398	-0.0047
61	10	Biased	3.4328	3.4372	0.0044
62	10	Biased	3.4273	3.4332	0.0059
63	10	Biased	3.4327	3.4424	0.0097
64	10	Biased	3.4322	3.4342	0.002
65	10	Unbiased	3.4253	3.4608	0.0355
66	10	Unbiased	3.4428	3.4579	0.0151
67	10	Unbiased	3.4265	3.442	0.0155
68	10	Unbiased	3.4358	3.4654	0.0296
69	10	Unbiased	3.4091	3.432	0.0229
100	20	Biased	3.4201	3.4159	-0.0042
200	20	Biased	3.4396	3.4198	-0.0198
300	20	Biased	3.433	3.4145	-0.0185
400	20	Biased	3.4306	3.415	-0.0156
500	20	Biased	3.448	3.4386	-0.0094
600	20	Unbiased	3.4558	3.4522	-0.0036
700	20	Unbiased	3.4278	3.4299	0.0021
800	20	Unbiased	3.4338	3.4334	-0.0004
900	20	Unbiased	3.4253	3.4229	-0.0024
1000	20	Unbiased	3.4292	3.4212	-0.008
1100	30	Biased	3.4294	3.4081	-0.0213
1200	30	Biased	3.4283	3.4096	-0.0187
1300	30	Biased	3.448	3.4247	-0.0233
1400	30	Biased	3.4273	3.4068	-0.0205
1500	30	Biased	3.4518	3.4346	-0.0172
1600	30	Unbiased	3.4462	3.4439	-0.0023
1700	30	Unbiased	3.4292	3.4302	0.001
1800	30	Unbiased	3.4376	3.4389	0.0013
1900	30	Unbiased	3.4337	3.4309	-0.0028
2000	30	Unbiased	3.438	3.4331	-0.0049
2100	50	Biased-84Hr-Anneal	3.439	3.3918	-0.0472
2200	50	Biased-84Hr-Anneal	3.4504	3.3962	-0.0542
2300	50	Biased-84Hr-Anneal	3.4592	3.4244	-0.0348
2400	50	Biased-84Hr-Anneal	3.4283	3.4026	-0.0257
2500	50	Biased-84Hr-Anneal	3.4302	3.4035	-0.0267
2600	50	Unbiased	3.4415	3.4331	-0.0084
2700	50	Unbiased	3.4385	3.4418	0.0033
2800	50	Unbiased	3.4325	3.4393	0.0068
2900	50	Unbiased	3.4347	3.4367	0.002
3000	50	Unbiased	3.448	3.4411	-0.0069
4000	100	Biased-168Hr-Anneal	3.4305	3.3854	-0.0451
4100	100	Biased-168Hr-Anneal	3.435	3.3983	-0.0367
4200	100	Biased-168Hr-Anneal	3.439	3.3983	-0.0407
4300	100	Biased-168Hr-Anneal	3.4424	3.4033	-0.0391
4400	100	Biased-168Hr-Anneal	3.4526	3.409	-0.0436
4500	100	Unbiased-168Hr-Anneal	3.4493	3.4393	-0.01
4600	100	Unbiased-168Hr-Anneal	3.4428	3.4421	-0.0007
4700	100	Unbiased-168Hr-Anneal	3.4406	3.4356	-0.005
4800	100	Unbiased-168Hr-Anneal	3.4591	3.4529	-0.0062
4900	100	Unbiased-168Hr-Anneal	3.4567	3.4532	-0.0035
9300	0	CORRELATION	3.4308	3.421	-0.0098
9400	0	CORRELATION	3.4434	3.4436	0.0002
9500	0	CORRELATION	3.4445	3.4451	0.0006
9600	0	CORRELATION	3.4188	3.42	0.0012
9700	0	CORRELATION	3.4376	3.4371	-0.0005

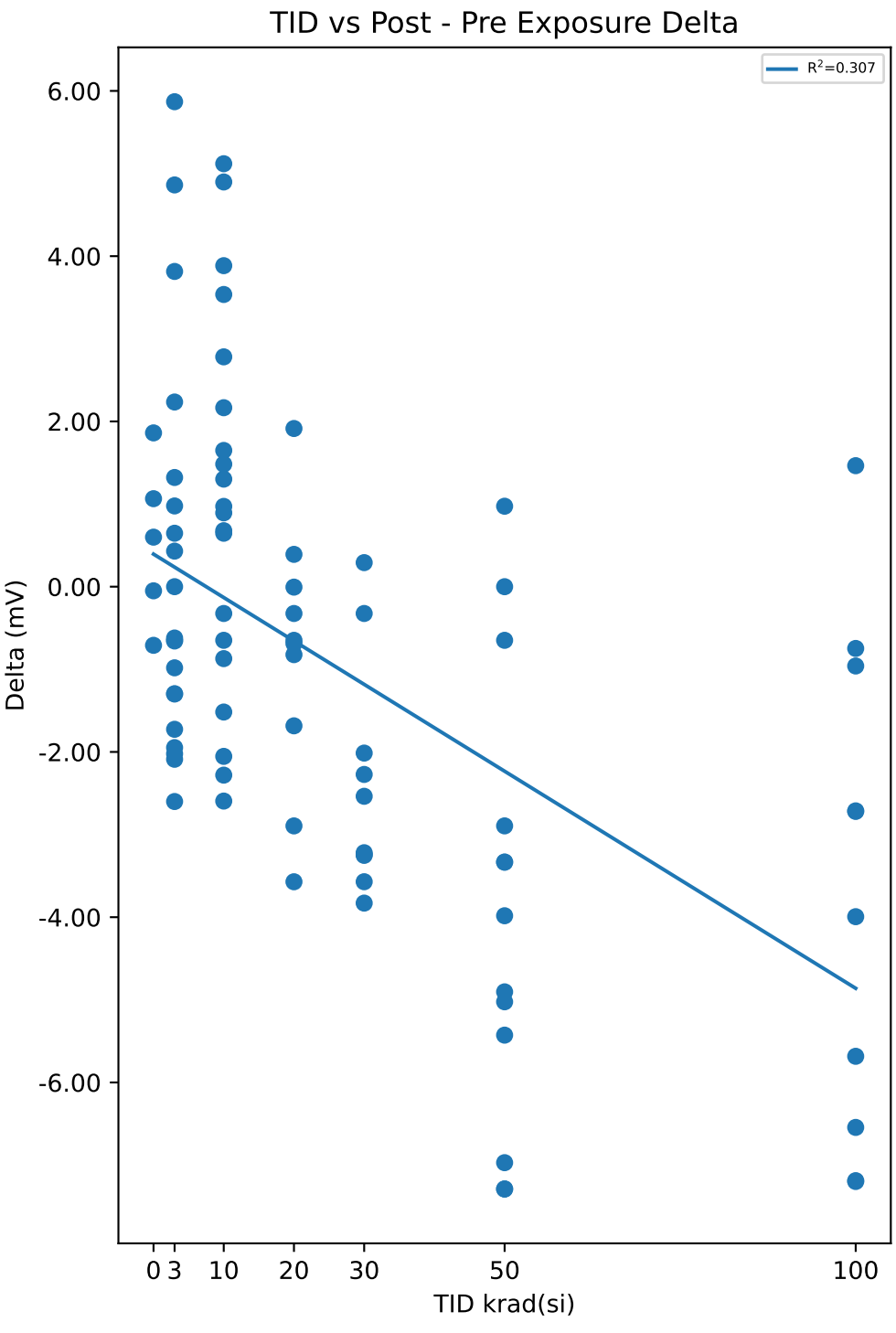


Test Statistics (V)

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	3.4188	3.435	3.4445	0.010579	3.42	3.4334	3.4451	0.012124	-0.0098	-0.00166	0.0012	0.0045922
3	3.4187	3.4311	3.4436	0.0077671	3.4313	3.444	3.4628	0.010454	-0.0123	0.01286	0.0302	0.014991
10	3.4091	3.4309	3.4445	0.0099891	3.432	3.4445	3.4654	0.012284	-0.0047	0.01359	0.0355	0.012722
20	3.4201	3.4343	3.4558	0.010773	3.4145	3.4263	3.4522	0.012204	-0.0198	-0.00798	0.0021	0.0077038
30	3.4273	3.437	3.4518	0.008977	3.4068	3.4261	3.4439	0.013385	-0.0233	-0.01087	0.0013	0.010114
50	3.4283	3.4402	3.4592	0.0097925	3.3918	3.4211	3.4418	0.020244	-0.0542	-0.01918	0.0068	0.021732
100	3.4305	3.4448	3.4591	0.0093616	3.3854	3.4217	3.4532	0.02538	-0.0451	-0.02306	-0.0007	0.019223

Device Test: 14.15 THRESHOLD|HYST/PVIN/12////@UVLO_HYST_PVIN





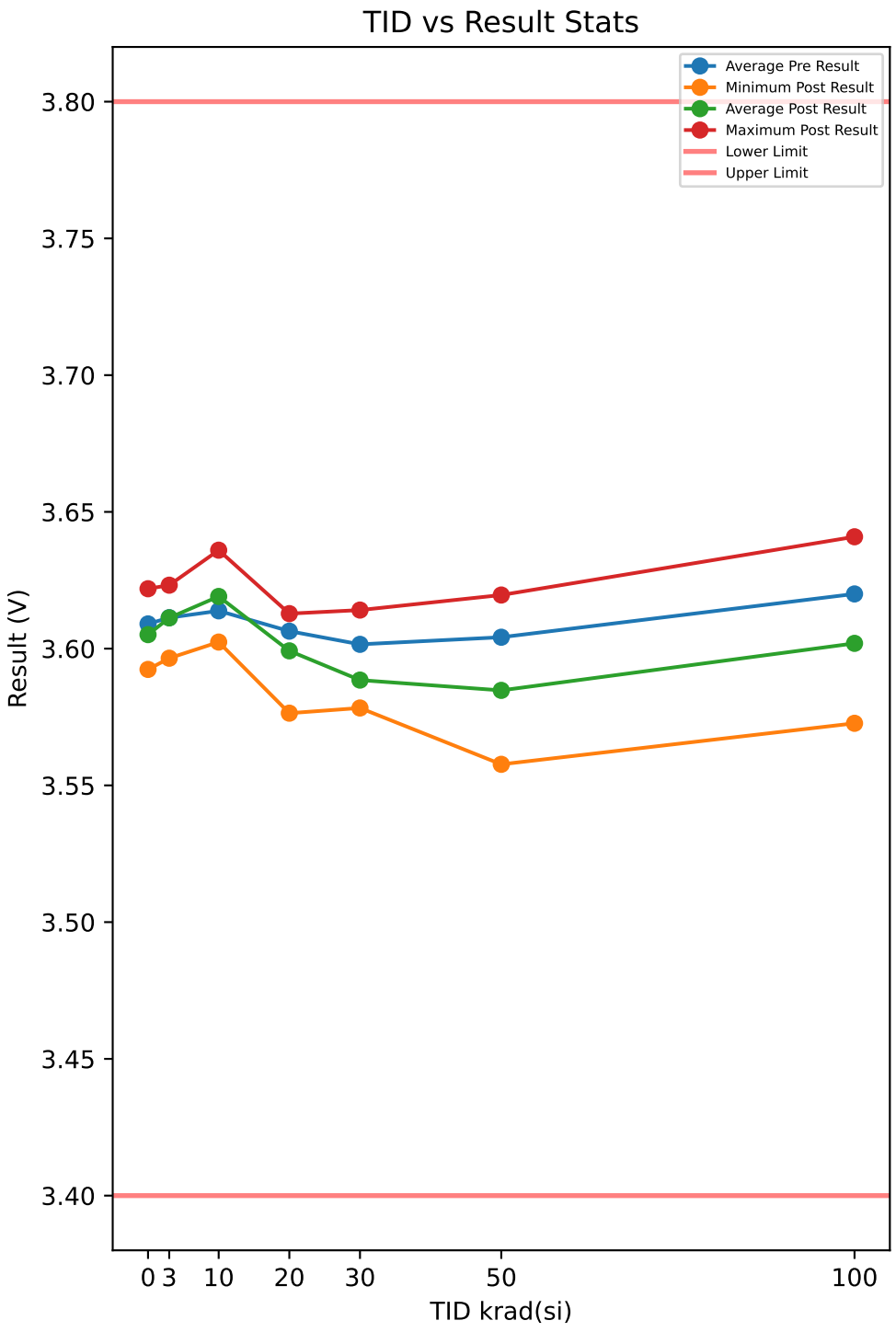
Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	446.08	445.1	-0.982
51	3	Biased	445.72	447.04	1.3214
52	3	Biased	447.99	445.96	-2.0222
53	3	Biased	447.73	445.64	-2.0887
54	3	Biased	442.83	447.69	4.8619
55	3	Unbiased	444.75	448.56	3.815
56	3	Unbiased	446.36	445.74	-0.6213
57	3	Unbiased	443.18	445.42	2.2349
58	3	Unbiased	446.08	445.42	-0.6573
59	3	Unbiased	445.4	451.26	5.8691
60	10	Biased	446.36	447.04	0.6776
61	10	Biased	444.81	446.29	1.4828
62	10	Biased	448.03	445.75	-2.2807
63	10	Biased	446.04	446.94	0.8937
64	10	Biased	441.49	446.39	4.8979
65	10	Unbiased	445.46	448.99	3.5363
66	10	Unbiased	446.4	450.29	3.885
67	10	Unbiased	445.4	447.04	1.6487
68	10	Unbiased	444.74	449.86	5.1187
69	10	Unbiased	442.53	445.32	2.7815
100	20	Biased	443.68	442.86	-0.8226
200	20	Biased	446.73	443.83	-2.8952
300	20	Biased	445.07	444.42	-0.6492
400	20	Biased	443.12	442.79	-0.3245
500	20	Biased	449.03	445.46	-3.5713
600	20	Unbiased	448.68	450.59	1.9142
700	20	Unbiased	445.4	445.39	-0.0054
800	20	Unbiased	446.36	446.75	0.3911
900	20	Unbiased	446.11	444.42	-1.684
1000	20	Unbiased	446.4	445.71	-0.6885
1100	30	Biased	445.4	442.86	-2.5368
1200	30	Biased	445.07	441.82	-3.2406
1300	30	Biased	447.73	445.71	-2.014
1400	30	Biased	446.08	442.86	-3.2197
1500	30	Biased	448.97	445.4	-3.5708
1600	30	Unbiased	447.99	445.71	-2.2723
1700	30	Unbiased	443.83	443.51	-0.3244
1800	30	Unbiased	446.73	447.02	0.2911
1900	30	Unbiased	445.72	442.47	-3.2519
2000	30	Unbiased	447.34	443.51	-3.8295
2100	50	Biased-84Hr-Anneal	445.87	438.58	-7.2894
2200	50	Biased-84Hr-Anneal	448.79	441.82	-6.9709
2300	50	Biased-84Hr-Anneal	450.09	445.07	-5.0238
2400	50	Biased-84Hr-Anneal	445.22	441.24	-3.9826
2500	50	Biased-84Hr-Anneal	446.28	440.85	-5.4274
2600	50	Unbiased	446.73	443.83	-2.8949
2700	50	Unbiased	446.69	447.67	0.9737
2800	50	Unbiased	446.36	446.36	-0.0002
2900	50	Unbiased	446.75	446.11	-0.6492
3000	50	Unbiased	450.62	445.72	-4.9036
4000	100	Biased-168Hr-Anneal	443.82	437.27	-6.5443
4100	100	Biased-168Hr-Anneal	446.2	442.21	-3.9939
4200	100	Biased-168Hr-Anneal	447.14	439.94	-7.1985
4300	100	Biased-168Hr-Anneal	448.48	442.79	-5.6835
4400	100	Biased-168Hr-Anneal	449.66	442.47	-7.1887
4500	100	Unbiased-168Hr-Anneal	449.08	446.36	-2.7197
4600	100	Unbiased-168Hr-Anneal	446.2	447.67	1.4644
4700	100	Unbiased-168Hr-Anneal	446.49	443.77	-2.7134
4800	100	Unbiased-168Hr-Anneal	447.71	446.75	-0.9598
4900	100	Unbiased-168Hr-Anneal	447.5	446.75	-0.7476
9300	0	CORRELATION	445.46	444.75	-0.7097
9400	0	CORRELATION	448.04	447.99	-0.05
9500	0	CORRELATION	446.84	448.7	1.8611
9600	0	CORRELATION	444.98	446.04	1.0649
9700	0	CORRELATION	445.44	446.04	0.5994

Test Statistics (mV)

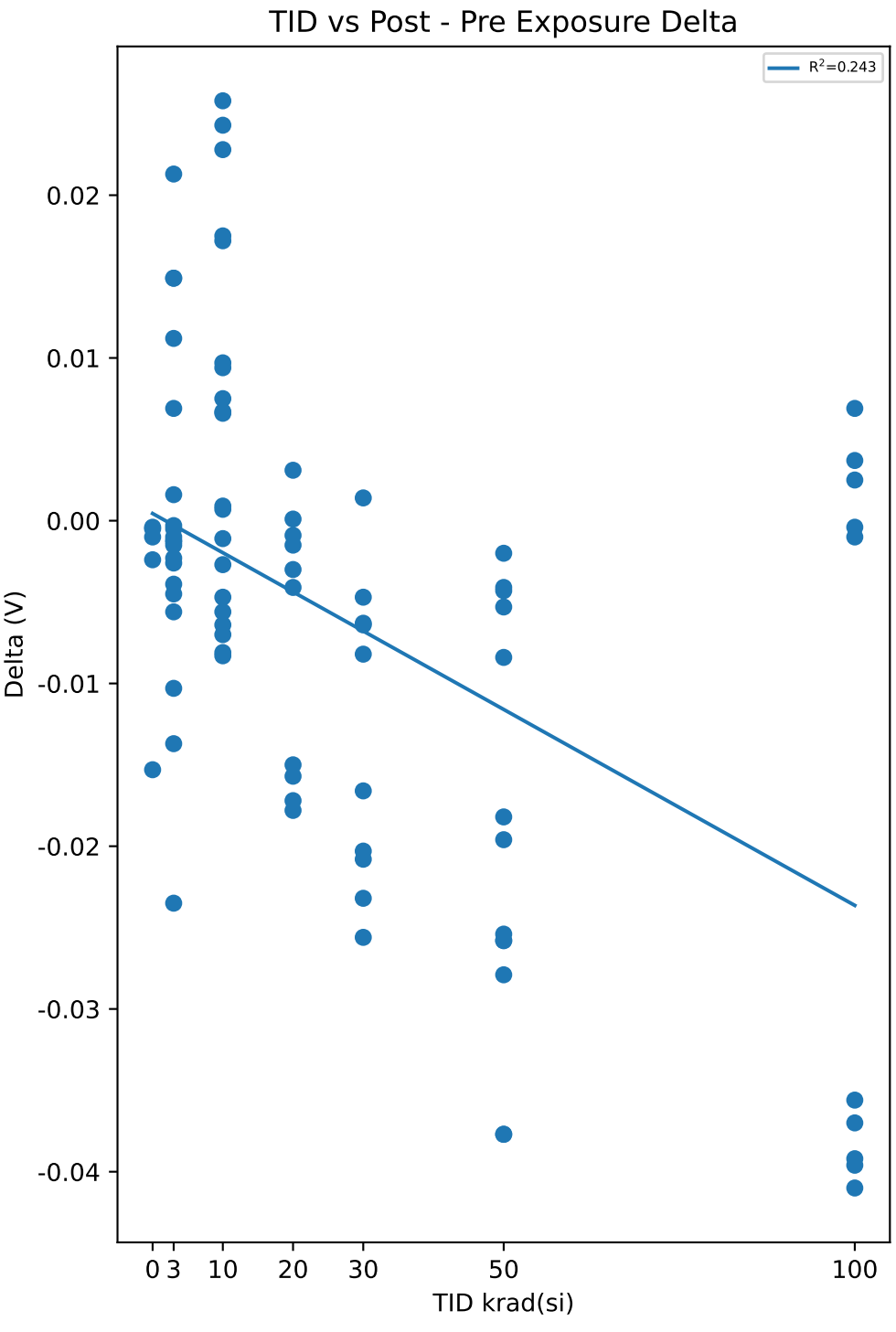
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	444.98	446.15	448.04	1.2643	444.75	446.7	448.7	1.6086	-0.7097	0.55314	1.8611	0.99163
3	442.83	445.61	447.99	1.6851	445.1	446.78	451.26	1.9369	-2.0887	1.1731	5.8691	2.9031
10	441.49	445.13	448.03	1.9078	445.32	447.39	450.29	1.7232	-2.2807	2.2642	5.1187	2.2519
20	443.12	446.06	449.03	1.8868	442.79	445.22	450.59	2.2653	-3.5713	-0.83354	1.9142	1.5818
30	443.83	446.48	448.97	1.554	441.82	444.09	447.02	1.733	-3.8295	-2.3969	0.2911	1.3845
50	445.22	447.34	450.62	1.8357	438.58	443.72	447.67	2.9542	-7.2894	-3.6168	0.9737	2.8919
100	443.82	447.23	449.66	1.6841	437.27	443.6	447.67	3.3568	-7.1985	-3.6285	1.4644	3.0056

Device Test: 14.16 THRESHOLD|RISE/VIN/12////@UVLO_RISE_VIN



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

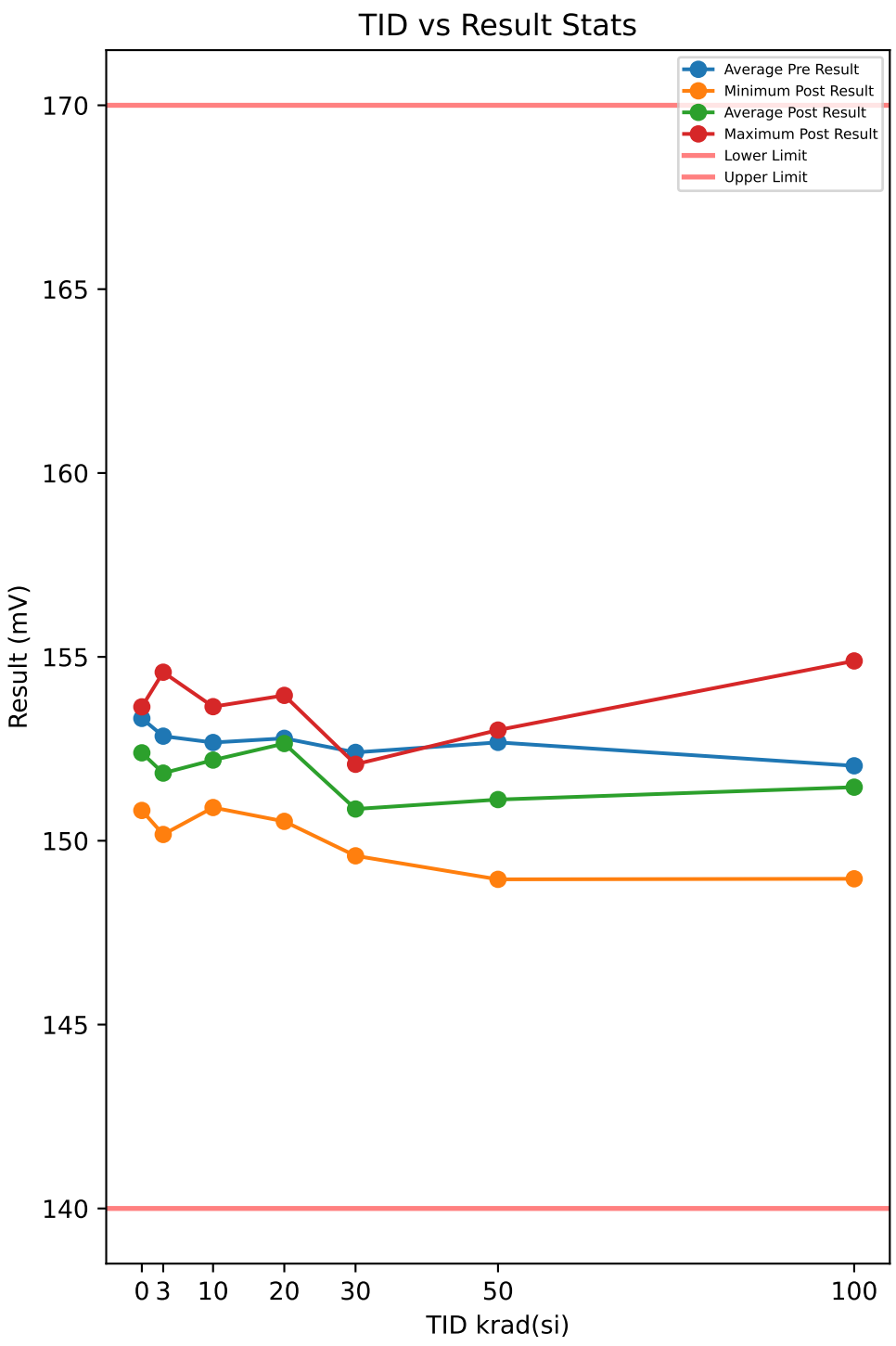
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.6171	3.6034	-0.0137
51	3	Biased	3.6033	3.6182	0.0149
52	3	Biased	3.6281	3.6046	-0.0235
53	3	Biased	3.6005	3.599	-0.0015
54	3	Biased	3.6068	3.5965	-0.0103
55	3	Unbiased	3.6018	3.6087	0.0069
56	3	Unbiased	3.6216	3.6232	0.0016
57	3	Unbiased	3.6045	3.6194	0.0149
58	3	Unbiased	3.6096	3.6208	0.0112
59	3	Unbiased	3.5974	3.6187	0.0213
60	10	Biased	3.6097	3.6191	0.0094
61	10	Biased	3.607	3.6137	0.0067
62	10	Biased	3.6124	3.6221	0.0097
63	10	Biased	3.5849	3.6024	0.0175
64	10	Biased	3.6097	3.6163	0.0066
65	10	Unbiased	3.5999	3.6227	0.0228
66	10	Unbiased	3.6102	3.636	0.0258
67	10	Unbiased	3.6127	3.6299	0.0172
68	10	Unbiased	3.5944	3.6187	0.0243
69	10	Unbiased	3.6024	3.6099	0.0075
100	20	Biased	3.5927	3.5958	0.0031
200	20	Biased	3.5921	3.5764	-0.0157
300	20	Biased	3.6139	3.5989	-0.015
400	20	Biased	3.5941	3.5769	-0.0172
500	20	Biased	3.622	3.6042	-0.0178
600	20	Unbiased	3.6137	3.6096	-0.0041
700	20	Unbiased	3.6127	3.6128	0.0001
800	20	Unbiased	3.6035	3.6005	-0.003
900	20	Unbiased	3.608	3.6071	-0.0009
1000	20	Unbiased	3.6112	3.6097	-0.0015
1100	30	Biased	3.5949	3.5783	-0.0166
1200	30	Biased	3.6022	3.579	-0.0232
1300	30	Biased	3.6105	3.5897	-0.0208
1400	30	Biased	3.6077	3.5821	-0.0256
1500	30	Biased	3.6002	3.5799	-0.0203
1600	30	Unbiased	3.6188	3.6141	-0.0047
1700	30	Unbiased	3.5974	3.5911	-0.0063
1800	30	Unbiased	3.6037	3.5955	-0.0082
1900	30	Unbiased	3.5868	3.5882	0.0014
2000	30	Unbiased	3.5935	3.5871	-0.0064
2100	50	Biased-84Hr-Anneal	3.6007	3.563	-0.0377
2200	50	Biased-84Hr-Anneal	3.6057	3.5875	-0.0182
2300	50	Biased-84Hr-Anneal	3.6151	3.5897	-0.0254
2400	50	Biased-84Hr-Anneal	3.5832	3.5636	-0.0196
2500	50	Biased-84Hr-Anneal	3.5856	3.5577	-0.0279
2600	50	Unbiased	3.614	3.612	-0.002
2700	50	Unbiased	3.6239	3.6196	-0.0043
2800	50	Unbiased	3.6028	3.5944	-0.0084
2900	50	Unbiased	3.5892	3.5839	-0.0053
3000	50	Unbiased	3.6215	3.6174	-0.0041
4000	100	Biased-168Hr-Anneal	3.619	3.5794	-0.0396
4100	100	Biased-168Hr-Anneal	3.6083	3.5727	-0.0356
4200	100	Biased-168Hr-Anneal	3.6162	3.5792	-0.037
4300	100	Biased-168Hr-Anneal	3.6192	3.58	-0.0392
4400	100	Biased-168Hr-Anneal	3.6246	3.5836	-0.041
4500	100	Unbiased-168Hr-Anneal	3.634	3.6409	0.0069
4600	100	Unbiased-168Hr-Anneal	3.6164	3.6189	0.0025
4700	100	Unbiased-168Hr-Anneal	3.6128	3.6124	-0.0004
4800	100	Unbiased-168Hr-Anneal	3.6171	3.6208	0.0037
4900	100	Unbiased-168Hr-Anneal	3.6324	3.6314	-0.001
9300	0	CORRELATION	3.6077	3.5924	-0.0153
9400	0	CORRELATION	3.5977	3.5972	-0.0005
9500	0	CORRELATION	3.6085	3.6061	-0.0024
9600	0	CORRELATION	3.609	3.608	-0.001
9700	0	CORRELATION	3.6223	3.6219	-0.0004

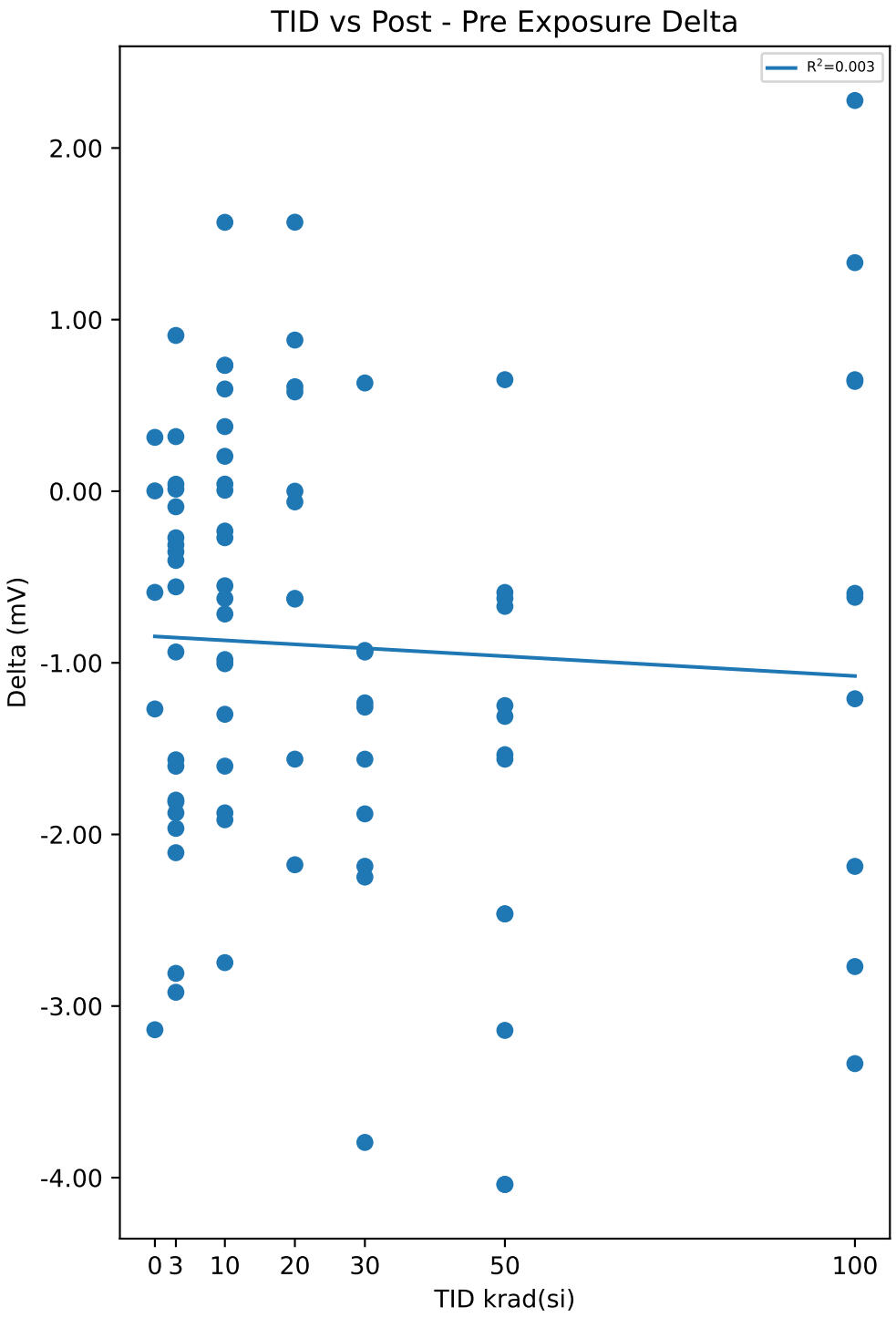


Test Statistics (V)

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	3.5977	3.609	3.6223	0.0087537	3.5924	3.6051	3.6219	0.011351	-0.0153	-0.00392	-0.0004	0.0064115
3	3.5974	3.6091	3.6281	0.010032	3.5965	3.6112	3.6232	0.0099119	-0.0235	0.00218	0.0213	0.01443
10	3.5849	3.6043	3.6127	0.0090303	3.6024	3.6191	3.636	0.0095737	0.0066	0.01475	0.0258	0.0076709
20	3.5921	3.6064	3.622	0.010382	3.5764	3.5992	3.6128	0.013001	-0.0178	-0.0072	0.0031	0.0081939
30	3.5868	3.6016	3.6188	0.0092265	3.5783	3.5885	3.6141	0.010666	-0.0256	-0.01307	0.0014	0.009295
50	3.5832	3.6042	3.6239	0.014646	3.5577	3.5889	3.6196	0.022683	-0.0377	-0.01529	-0.002	0.012294
100	3.6083	3.62	3.634	0.0081452	3.5727	3.6019	3.6409	0.025465	-0.041	-0.01807	0.0069	0.021668

Device Test: 14.18 THRESHOLD|HYST/VIN/12////@UVLO_HYST_VIN





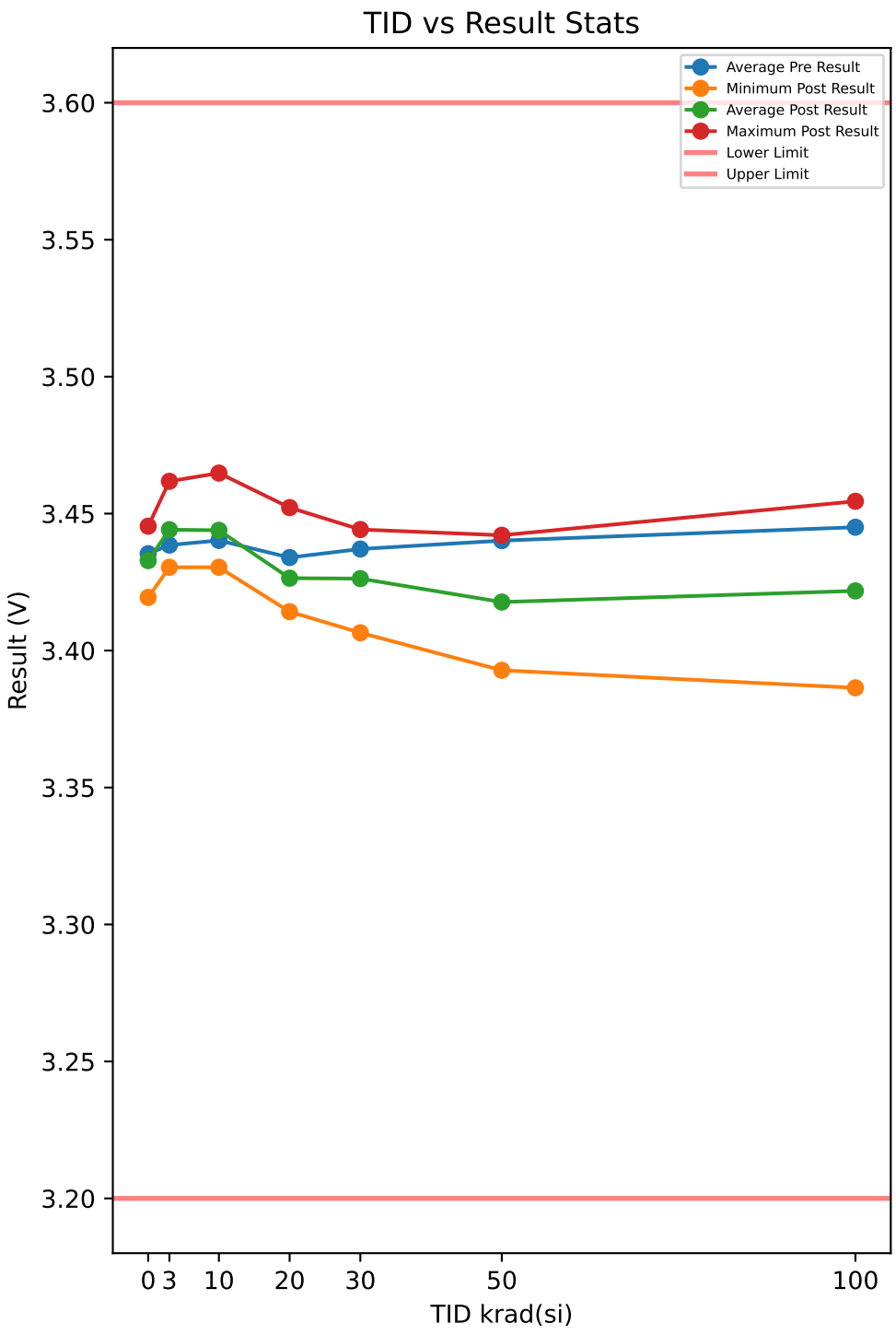
Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	151.82	151.42	-0.4034
51	3	Biased	152.07	152.08	0.0121
52	3	Biased	154.27	152.47	-1.8001
53	3	Biased	153.03	151.22	-1.8103
54	3	Biased	151.82	151.73	-0.0906
55	3	Unbiased	153.01	150.9	-2.1064
56	3	Unbiased	154.26	154.58	0.3183
57	3	Unbiased	153.34	151.77	-1.5652
58	3	Unbiased	152.13	150.17	-1.9646
59	3	Unbiased	151.14	152.04	0.9077
60	10	Biased	152.08	153.65	1.5669
61	10	Biased	152.09	152.46	0.3767
62	10	Biased	152.45	151.73	-0.7155
63	10	Biased	152.7	152.47	-0.2322
64	10	Biased	152.39	152.4	0.0055
65	10	Unbiased	152.09	151.11	-0.9811
66	10	Unbiased	154.32	153.02	-1.2998
67	10	Unbiased	151.14	151.73	0.5956
68	10	Unbiased	153.02	152.47	-0.551
69	10	Unbiased	153.65	150.9	-2.747
100	20	Biased	151.16	150.53	-0.6287
200	20	Biased	150.89	151.46	0.5787
300	20	Biased	153.95	153.95	0.0002
400	20	Biased	153.95	153.33	-0.6244
500	20	Biased	154.27	152.71	-1.5614
600	20	Unbiased	152.13	152.07	-0.0622
700	20	Unbiased	152.39	153.95	1.5676
800	20	Unbiased	153.64	151.46	-2.1767
900	20	Unbiased	153.03	153.63	0.6089
1000	20	Unbiased	152.45	153.33	0.8809
1100	30	Biased	152.07	150.84	-1.2334
1200	30	Biased	152.39	150.51	-1.8801
1300	30	Biased	153.34	152.08	-1.2582
1400	30	Biased	154.32	150.53	-3.7947
1500	30	Biased	152.38	151.45	-0.937
1600	30	Unbiased	153.64	151.45	-2.1856
1700	30	Unbiased	151.15	149.59	-1.5616
1800	30	Unbiased	152.45	150.2	-2.2483
1900	30	Unbiased	150.2	150.83	0.6308
2000	30	Unbiased	152.08	151.15	-0.9279
2100	50	Biased-84Hr-Anneal	153.61	149.57	-4.0395
2200	50	Biased-84Hr-Anneal	151.74	152.39	0.6499
2300	50	Biased-84Hr-Anneal	153.93	152.39	-1.5352
2400	50	Biased-84Hr-Anneal	150.49	149.9	-0.5899
2500	50	Biased-84Hr-Anneal	152.09	148.95	-3.1419
2600	50	Unbiased	151.2	150.53	-0.6709
2700	50	Unbiased	153.63	153.01	-0.6244
2800	50	Unbiased	153.02	151.77	-1.2491
2900	50	Unbiased	153.34	151.78	-1.5614
3000	50	Unbiased	153.7	152.38	-1.312
4000	100	Biased-168Hr-Anneal	152.7	152.08	-0.6182
4100	100	Biased-168Hr-Anneal	151.74	148.97	-2.7699
4200	100	Biased-168Hr-Anneal	152.3	148.97	-3.3355
4300	100	Biased-168Hr-Anneal	152.99	152.39	-0.5951
4400	100	Biased-168Hr-Anneal	151.76	149.57	-2.1861
4500	100	Unbiased-168Hr-Anneal	152.61	154.89	2.2769
4600	100	Unbiased-168Hr-Anneal	151.74	152.38	0.6497
4700	100	Unbiased-168Hr-Anneal	149.8	151.14	1.332
4800	100	Unbiased-168Hr-Anneal	152.39	153.03	0.64
4900	100	Unbiased-168Hr-Anneal	152.36	151.15	-1.2095
9300	0	CORRELATION	153.96	150.82	-3.1381
9400	0	CORRELATION	153.64	153.64	0.0019
9500	0	CORRELATION	152.99	152.4	-0.5894
9600	0	CORRELATION	153.03	151.76	-1.2689
9700	0	CORRELATION	153.01	153.33	0.3138

Test Statistics (mV)

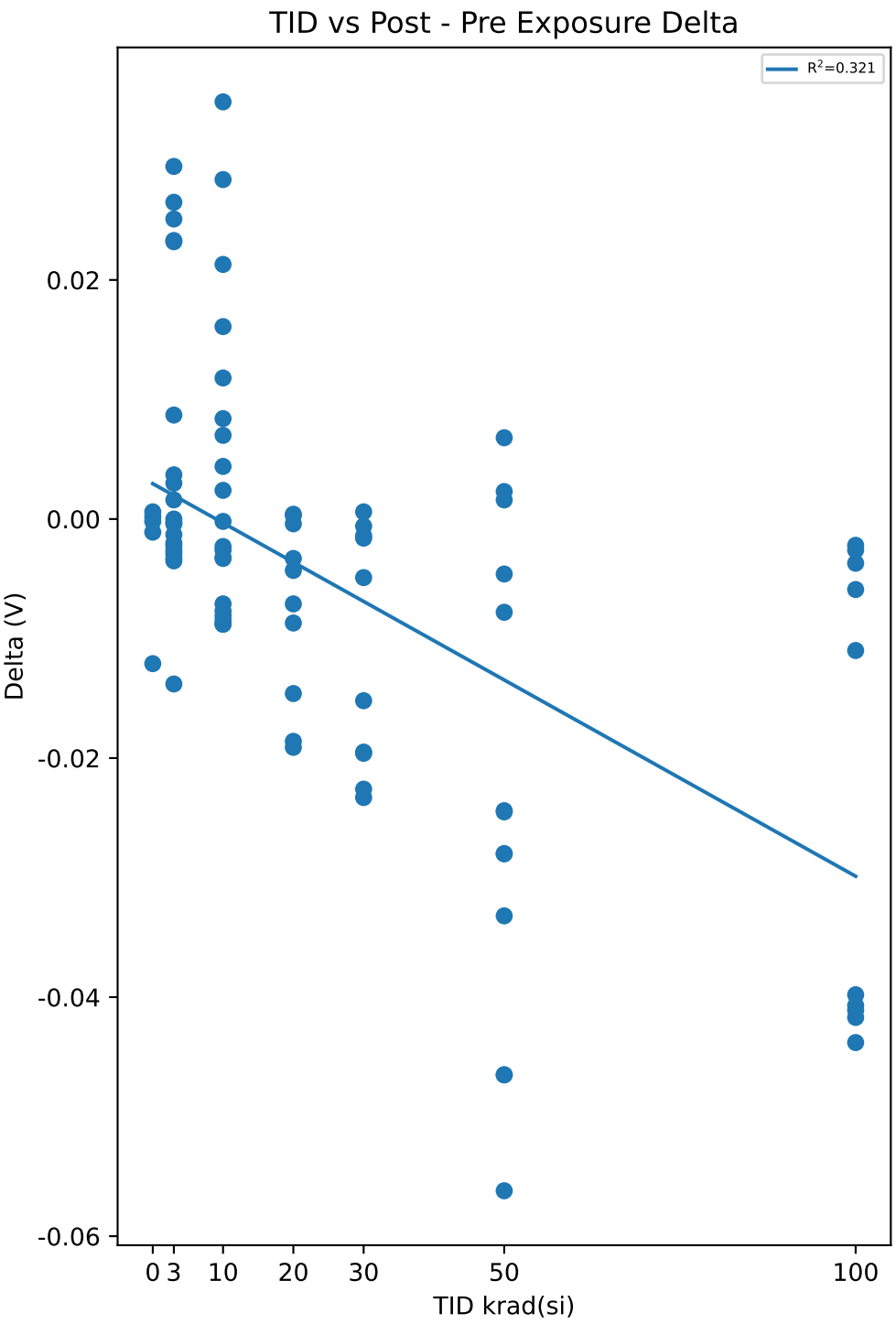
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	152.99	153.33	153.96	0.44731	150.82	152.39	153.64	1.1504	-3.1381	-0.93614	0.3138	1.3713
3	151.14	152.69	154.27	1.0649	150.17	151.84	154.58	1.1675	-2.1064	-0.85025	0.9077	1.1121
10	151.14	152.59	154.32	0.8977	150.9	152.19	153.65	0.8387	-2.747	-0.39819	1.5669	1.1754
20	150.89	152.78	154.27	1.187	150.53	152.64	153.95	1.1984	-2.1767	-0.14171	1.5676	1.1403
30	150.2	152.4	154.32	1.1891	149.59	150.86	152.08	0.71145	-3.7947	-1.5396	0.6308	1.1422
50	150.49	152.67	153.93	1.2077	148.95	151.27	153.01	1.4129	-4.0395	-1.4074	0.6499	1.3361
100	149.8	152.04	152.99	0.89503	148.97	151.46	154.89	1.9009	-3.3355	-0.58157	2.2769	1.8313

Device Test: 14.19 THRESHOLD|RISE/PVIN/14////@UVLO_RISE_PVIN



Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

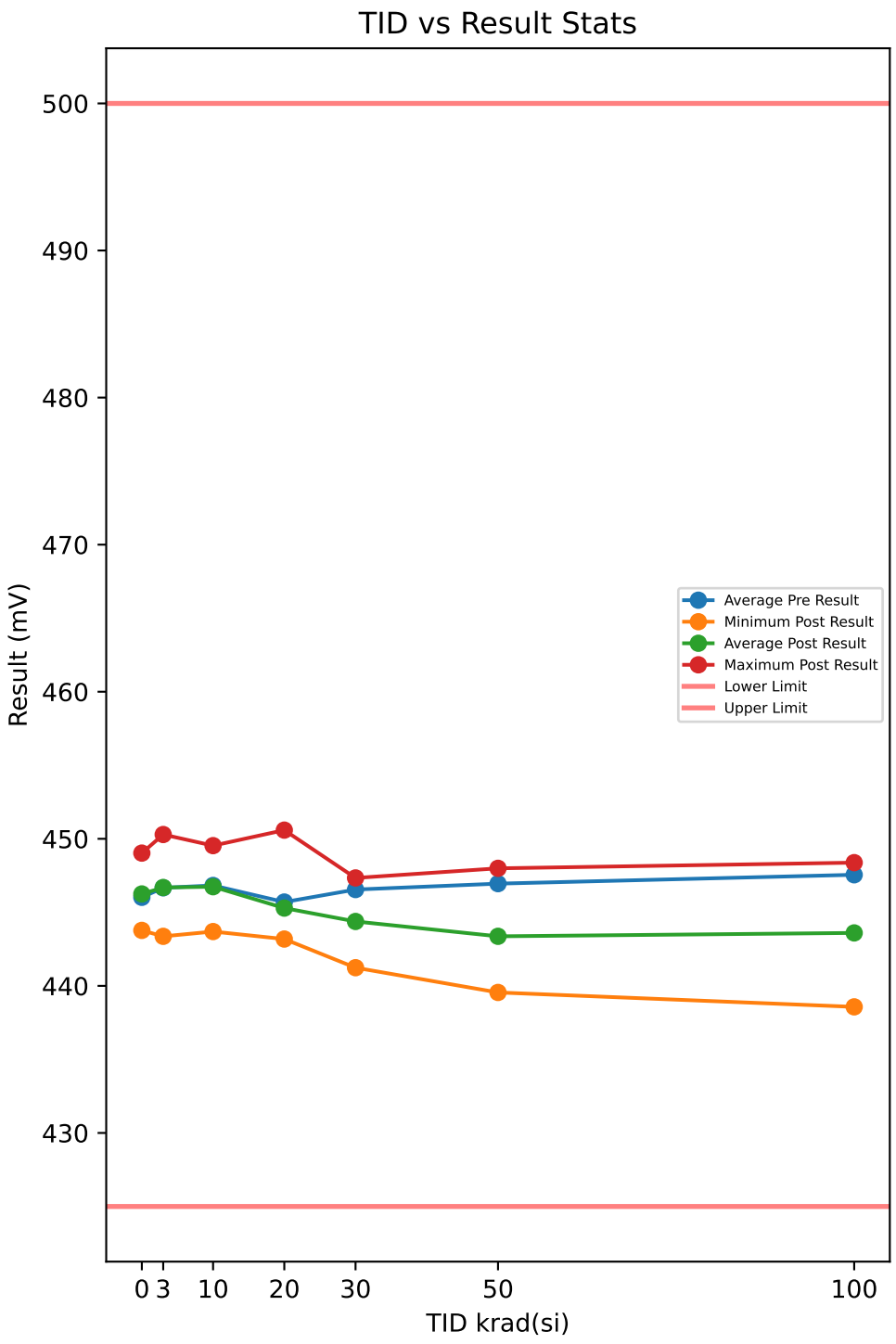
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.4331	3.4368	0.0037
51	3	Biased	3.4298	3.4531	0.0233
52	3	Biased	3.4442	3.4304	-0.0138
53	3	Biased	3.4298	3.4385	0.0087
54	3	Biased	3.4292	3.4543	0.0251
55	3	Unbiased	3.4197	3.4492	0.0295
56	3	Unbiased	3.4387	3.4417	0.003
57	3	Unbiased	3.4214	3.4446	0.0232
58	3	Unbiased	3.4344	3.4309	-0.0035
59	3	Unbiased	3.4353	3.4618	0.0265
60	10	Biased	3.4449	3.4378	-0.0071
61	10	Biased	3.4321	3.4365	0.0044
62	10	Biased	3.4269	3.4339	0.007
63	10	Biased	3.4333	3.4417	0.0084
64	10	Biased	3.4341	3.4339	-0.0002
65	10	Unbiased	3.4253	3.4602	0.0349
66	10	Unbiased	3.4448	3.4566	0.0118
67	10	Unbiased	3.4272	3.4433	0.0161
68	10	Unbiased	3.4364	3.4648	0.0284
69	10	Unbiased	3.4091	3.4304	0.0213
100	20	Biased	3.4195	3.4162	-0.0033
200	20	Biased	3.438	3.4194	-0.0186
300	20	Biased	3.4333	3.4142	-0.0191
400	20	Biased	3.4312	3.4166	-0.0146
500	20	Biased	3.447	3.4383	-0.0087
600	20	Unbiased	3.4565	3.4522	-0.0043
700	20	Unbiased	3.4285	3.4289	0.0004
800	20	Unbiased	3.4328	3.4331	0.0003
900	20	Unbiased	3.425	3.4246	-0.0004
1000	20	Unbiased	3.4279	3.4208	-0.0071
1100	30	Biased	3.4291	3.4065	-0.0226
1200	30	Biased	3.4296	3.41	-0.0196
1300	30	Biased	3.4474	3.4241	-0.0233
1400	30	Biased	3.4273	3.4078	-0.0195
1500	30	Biased	3.4515	3.4363	-0.0152
1600	30	Unbiased	3.4458	3.4442	-0.0016
1700	30	Unbiased	3.4308	3.4302	-0.0006
1800	30	Unbiased	3.4383	3.4389	0.0006
1900	30	Unbiased	3.4333	3.4319	-0.0014
2000	30	Unbiased	3.4377	3.4328	-0.0049
2100	50	Biased-84Hr-Anneal	3.4393	3.3928	-0.0465
2200	50	Biased-84Hr-Anneal	3.4517	3.3955	-0.0562
2300	50	Biased-84Hr-Anneal	3.4579	3.4247	-0.0332
2400	50	Biased-84Hr-Anneal	3.4283	3.4039	-0.0244
2500	50	Biased-84Hr-Anneal	3.4289	3.4044	-0.0245
2600	50	Unbiased	3.4425	3.4347	-0.0078
2700	50	Unbiased	3.4398	3.4421	0.0023
2800	50	Unbiased	3.4309	3.4377	0.0068
2900	50	Unbiased	3.4354	3.437	0.0016
3000	50	Unbiased	3.4467	3.4421	-0.0046
4000	100	Biased-168Hr-Anneal	3.4302	3.3864	-0.0438
4100	100	Biased-168Hr-Anneal	3.4359	3.3961	-0.0398
4200	100	Biased-168Hr-Anneal	3.439	3.3983	-0.0407
4300	100	Biased-168Hr-Anneal	3.4428	3.4017	-0.0411
4400	100	Biased-168Hr-Anneal	3.4513	3.4096	-0.0417
4500	100	Unbiased-168Hr-Anneal	3.4503	3.4393	-0.011
4600	100	Unbiased-168Hr-Anneal	3.4434	3.4408	-0.0026
4700	100	Unbiased-168Hr-Anneal	3.4406	3.4369	-0.0037
4800	100	Unbiased-168Hr-Anneal	3.4604	3.4545	-0.0059
4900	100	Unbiased-168Hr-Anneal	3.4564	3.4542	-0.0022
9300	0	CORRELATION	3.4321	3.42	-0.0121
9400	0	CORRELATION	3.4434	3.4423	-0.0011
9500	0	CORRELATION	3.4452	3.4454	0.0002
9600	0	CORRELATION	3.4188	3.4194	0.0006
9700	0	CORRELATION	3.4373	3.4371	-0.0002

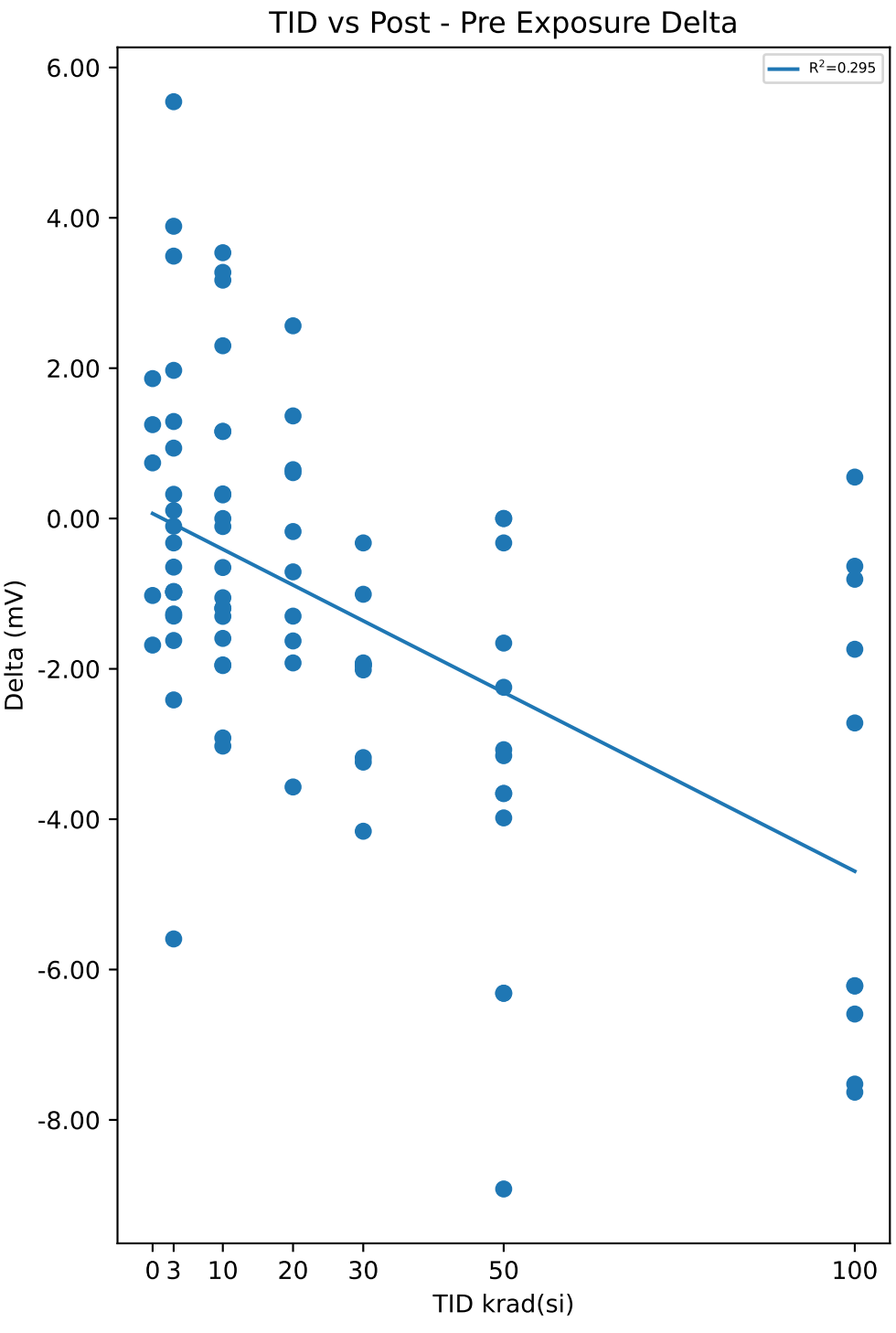


Test Statistics (V)

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	3.4188	3.4354	3.4452	0.010608	3.4194	3.4328	3.4454	0.012358	-0.0121	-0.00252	0.0006	0.0053923
3	3.4197	3.4316	3.4442	0.0073848	3.4304	3.4441	3.4618	0.010419	-0.0138	0.01257	0.0295	0.014924
10	3.4091	3.4314	3.4449	0.010385	3.4304	3.4439	3.4648	0.012217	-0.0071	0.0125	0.0349	0.012925
20	3.4195	3.434	3.4565	0.010851	3.4142	3.4264	3.4522	0.011976	-0.0191	-0.00754	0.0004	0.0075373
30	3.4273	3.4371	3.4515	0.0085723	3.4065	3.4263	3.4442	0.013633	-0.0233	-0.01081	0.0006	0.010054
50	3.4283	3.4401	3.4579	0.009848	3.3928	3.4215	3.4421	0.020105	-0.0562	-0.01865	0.0068	0.021798
100	3.4302	3.445	3.4604	0.0094251	3.3864	3.4218	3.4545	0.025891	-0.0438	-0.02325	-0.0022	0.019329

Device Test: 14.21 THRESHOLD|HYST/PVIN/14////@UVLO_HYST_PVIN





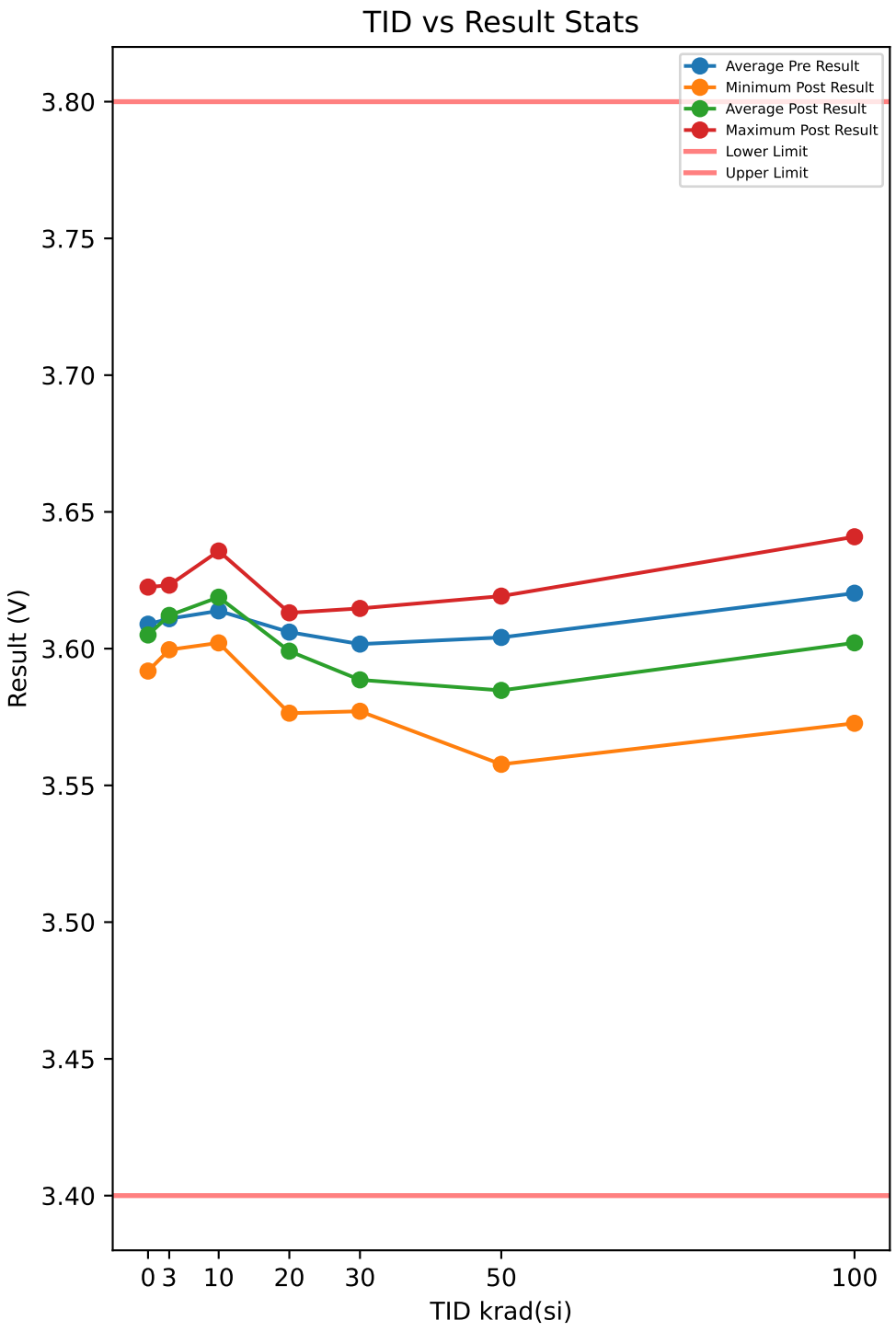
Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	444.78	446.07	1.2906
51	3	Biased	445.72	447.69	1.9706
52	3	Biased	448.96	443.37	-5.5927
53	3	Biased	448.38	445.96	-2.4134
54	3	Biased	443.81	447.69	3.8878
55	3	Unbiased	445.4	448.89	3.4906
56	3	Unbiased	447.66	446.39	-1.2702
57	3	Unbiased	444.81	445.74	0.9364
58	3	Unbiased	445.75	444.77	-0.9823
59	3	Unbiased	444.75	450.29	5.5444
60	10	Biased	447.01	445.42	-1.595
61	10	Biased	444.16	445.32	1.1584
62	10	Biased	448.03	446.07	-1.9561
63	10	Biased	447.02	445.96	-1.0539
64	10	Biased	442.47	445.74	3.2742
65	10	Unbiased	445.13	448.67	3.5358
66	10	Unbiased	448.68	448.99	0.3142
67	10	Unbiased	445.72	448.02	2.2981
68	10	Unbiased	446.36	449.53	3.171
69	10	Unbiased	442.53	443.69	1.1585
100	20	Biased	443.36	443.18	-0.1734
200	20	Biased	445.1	443.18	-1.921
300	20	Biased	445.4	444.1	-1.2987
400	20	Biased	444.09	444.74	0.6495
500	20	Biased	448.38	444.81	-3.5713
600	20	Unbiased	448.03	450.59	2.5636
700	20	Unbiased	446.04	444.42	-1.6286
800	20	Unbiased	445.39	446.75	1.3649
900	20	Unbiased	446.43	445.72	-0.7098
1000	20	Unbiased	444.78	445.39	0.6101
1100	30	Biased	445.4	441.24	-4.1602
1200	30	Biased	445.39	442.15	-3.2406
1300	30	Biased	447.08	445.07	-2.0141
1400	30	Biased	445.75	443.83	-1.921
1500	30	Biased	448.97	447.02	-1.9479
1600	30	Unbiased	447.66	447.34	-0.3247
1700	30	Unbiased	445.46	443.51	-1.9478
1800	30	Unbiased	447.7	446.69	-1.0078
1900	30	Unbiased	445.4	443.44	-1.9533
2000	30	Unbiased	446.69	443.51	-3.1806
2100	50	Biased-84Hr-Anneal	445.87	439.55	-6.3154
2200	50	Biased-84Hr-Anneal	450.41	441.49	-8.9192
2300	50	Biased-84Hr-Anneal	448.47	445.39	-3.0755
2400	50	Biased-84Hr-Anneal	445.22	441.24	-3.9828
2500	50	Biased-84Hr-Anneal	444.65	441.5	-3.1551
2600	50	Unbiased	447.38	445.13	-2.2454
2700	50	Unbiased	447.99	447.99	-0.0003
2800	50	Unbiased	445.07	444.74	-0.3247
2900	50	Unbiased	446.43	446.43	0
3000	50	Unbiased	448.03	446.37	-1.6572
4000	100	Biased-168Hr-Anneal	444.79	438.57	-6.2196
4100	100	Biased-168Hr-Anneal	446.53	439.94	-6.5917
4200	100	Biased-168Hr-Anneal	447.14	439.61	-7.5233
4300	100	Biased-168Hr-Anneal	448.8	441.17	-7.6316
4400	100	Biased-168Hr-Anneal	448.36	442.15	-6.2145
4500	100	Unbiased-168Hr-Anneal	450.06	447.34	-2.72
4600	100	Unbiased-168Hr-Anneal	447.18	446.37	-0.8082
4700	100	Unbiased-168Hr-Anneal	446.49	444.75	-1.7394
4800	100	Unbiased-168Hr-Anneal	449.01	448.38	-0.635
4900	100	Unbiased-168Hr-Anneal	447.18	447.73	0.551
9300	0	CORRELATION	445.46	443.77	-1.6837
9400	0	CORRELATION	447.71	446.69	-1.0239
9500	0	CORRELATION	447.17	449.03	1.8611
9600	0	CORRELATION	444.66	445.4	0.7402
9700	0	CORRELATION	445.12	446.36	1.2487

Test Statistics (mV)

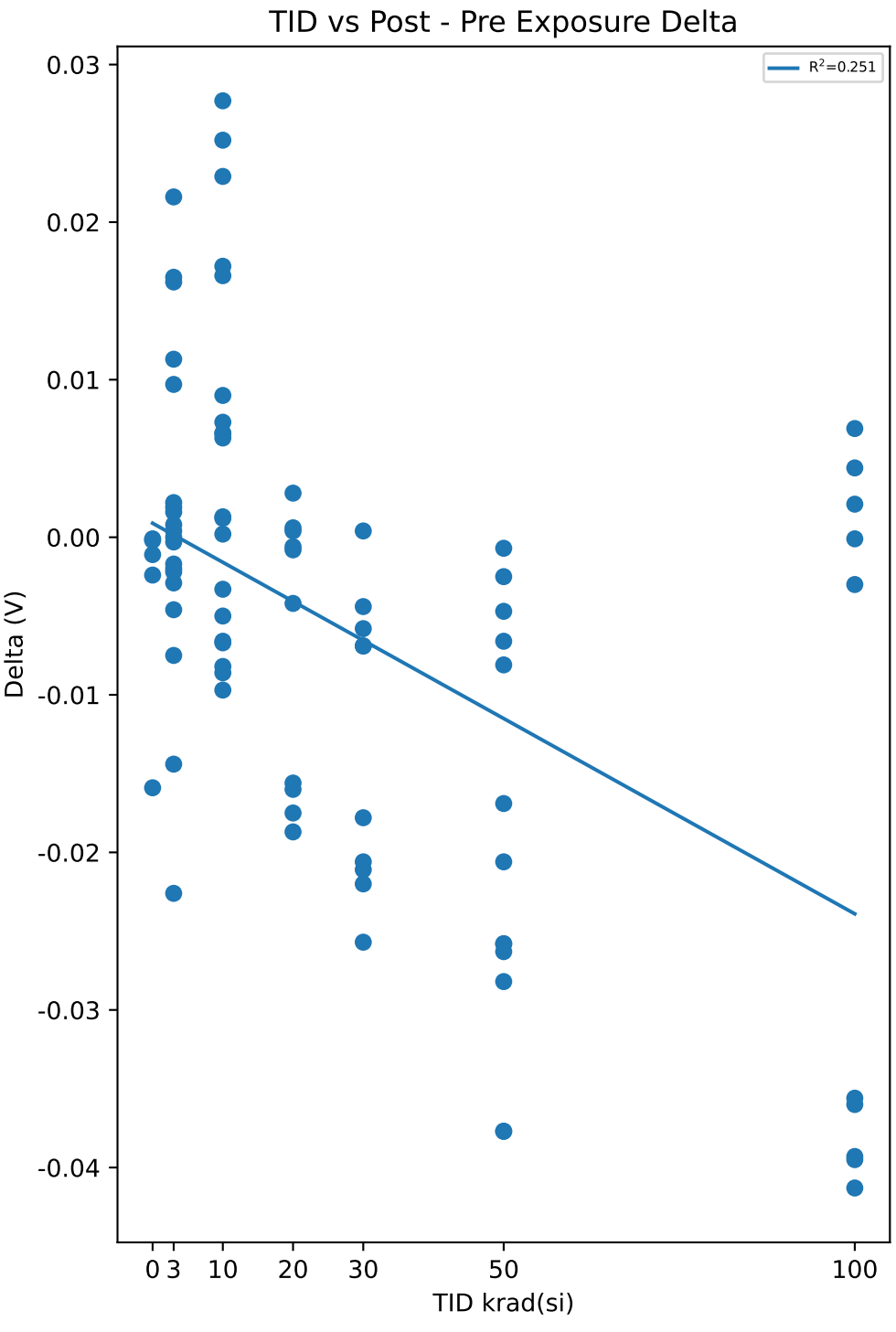
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	444.66	446.02	447.71	1.3396	443.77	446.25	449.03	1.9228	-1.6837	0.22848	1.8611	1.516
3	443.81	446	448.96	1.7317	443.37	446.69	450.29	2.0112	-5.5927	0.68618	5.5444	3.324
10	442.47	445.71	448.68	2.1431	443.69	446.74	449.53	1.9243	-1.9561	1.0305	3.5358	2.0603
20	443.36	445.7	448.38	1.5883	443.18	445.29	450.59	2.1609	-3.5713	-0.41147	2.5636	1.7905
30	445.39	446.55	448.97	1.2713	441.24	444.38	447.34	2.0843	-4.1602	-2.1698	-0.3247	1.1114
50	444.65	446.95	450.41	1.8252	439.55	443.98	447.99	2.8121	-8.9192	-2.9676	0	2.8779
100	444.79	447.55	450.06	1.5234	438.57	443.6	448.38	3.7333	-7.6316	-3.9532	0.551	3.1815

Device Test: 14.22 THRESHOLD|RISE/VIN/14////@UVLO_RISE_VIN



Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

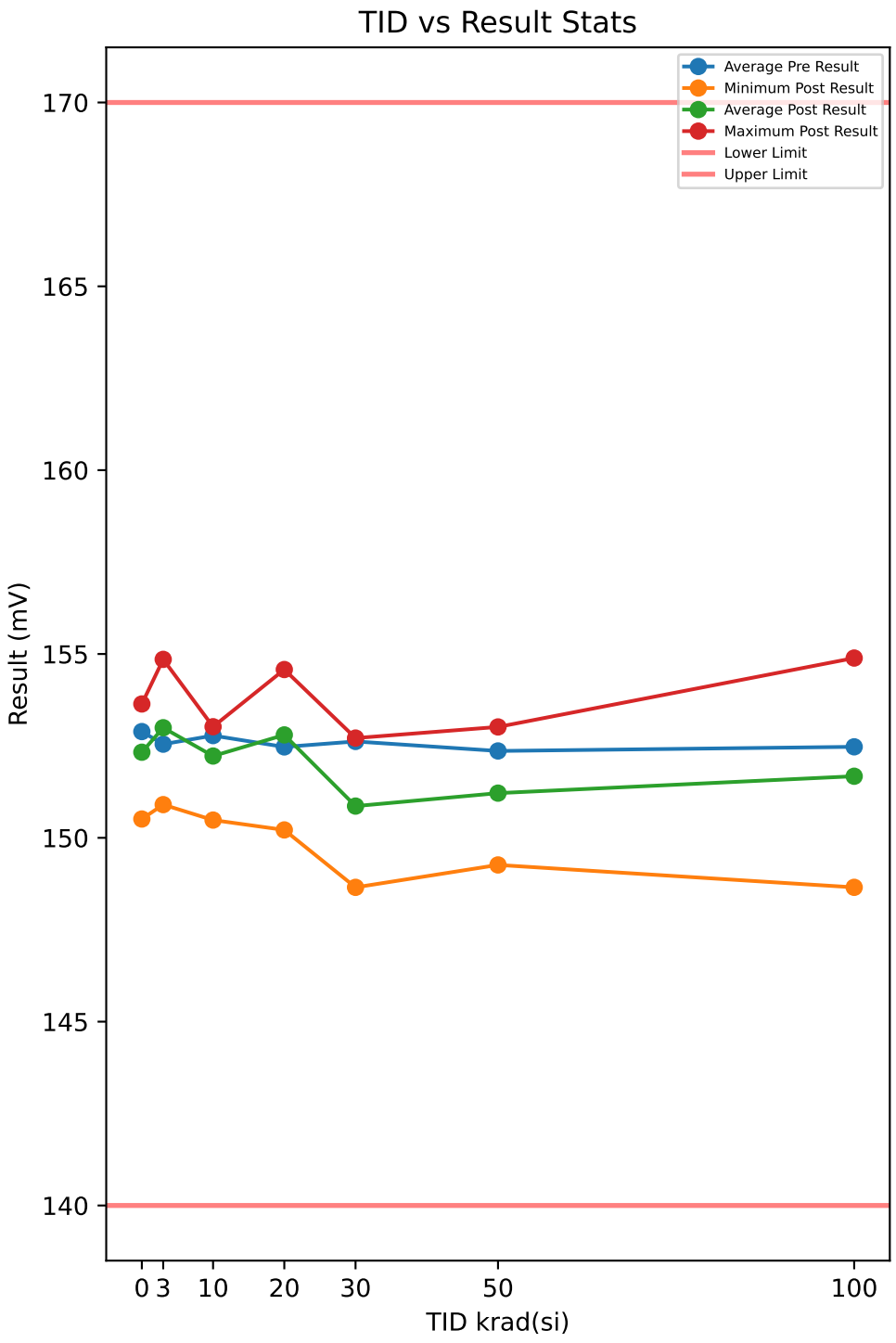
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.6174	3.603	-0.0144
51	3	Biased	3.6039	3.6201	0.0162
52	3	Biased	3.626	3.6034	-0.0226
53	3	Biased	3.5999	3.6003	0.0004
54	3	Biased	3.6071	3.5996	-0.0075
55	3	Unbiased	3.6018	3.6115	0.0097
56	3	Unbiased	3.621	3.6232	0.0022
57	3	Unbiased	3.6036	3.6201	0.0165
58	3	Unbiased	3.6099	3.6212	0.0113
59	3	Unbiased	3.5974	3.619	0.0216
60	10	Biased	3.6107	3.6173	0.0066
61	10	Biased	3.6074	3.6137	0.0063
62	10	Biased	3.6137	3.6227	0.009
63	10	Biased	3.5855	3.6021	0.0166
64	10	Biased	3.6094	3.616	0.0066
65	10	Unbiased	3.5992	3.6221	0.0229
66	10	Unbiased	3.608	3.6357	0.0277
67	10	Unbiased	3.613	3.6302	0.0172
68	10	Unbiased	3.5938	3.619	0.0252
69	10	Unbiased	3.602	3.6093	0.0073
100	20	Biased	3.5924	3.5952	0.0028
200	20	Biased	3.5924	3.5764	-0.016
300	20	Biased	3.6139	3.5983	-0.0156
400	20	Biased	3.5947	3.5772	-0.0175
500	20	Biased	3.6223	3.6036	-0.0187
600	20	Unbiased	3.6134	3.6092	-0.0042
700	20	Unbiased	3.6127	3.6131	0.0004
800	20	Unbiased	3.6016	3.6008	-0.0008
900	20	Unbiased	3.6061	3.6067	0.0006
1000	20	Unbiased	3.6109	3.6103	-0.0006
1100	30	Biased	3.5949	3.5771	-0.0178
1200	30	Biased	3.6047	3.579	-0.0257
1300	30	Biased	3.6102	3.5891	-0.0211
1400	30	Biased	3.6059	3.5839	-0.022
1500	30	Biased	3.6008	3.5802	-0.0206
1600	30	Unbiased	3.6191	3.6147	-0.0044
1700	30	Unbiased	3.5983	3.5914	-0.0069
1800	30	Unbiased	3.6027	3.5958	-0.0069
1900	30	Unbiased	3.5871	3.5875	0.0004
2000	30	Unbiased	3.5929	3.5871	-0.0058
2100	50	Biased-84Hr-Anneal	3.6007	3.563	-0.0377
2200	50	Biased-84Hr-Anneal	3.6051	3.5882	-0.0169
2300	50	Biased-84Hr-Anneal	3.616	3.5897	-0.0263
2400	50	Biased-84Hr-Anneal	3.5836	3.563	-0.0206
2500	50	Biased-84Hr-Anneal	3.5859	3.5577	-0.0282
2600	50	Unbiased	3.6134	3.6127	-0.0007
2700	50	Unbiased	3.6239	3.6192	-0.0047
2800	50	Unbiased	3.6025	3.5944	-0.0081
2900	50	Unbiased	3.5899	3.5833	-0.0066
3000	50	Unbiased	3.6199	3.6174	-0.0025
4000	100	Biased-168Hr-Anneal	3.619	3.5797	-0.0393
4100	100	Biased-168Hr-Anneal	3.6083	3.5727	-0.0356
4200	100	Biased-168Hr-Anneal	3.6162	3.5802	-0.036
4300	100	Biased-168Hr-Anneal	3.6192	3.5797	-0.0395
4400	100	Biased-168Hr-Anneal	3.6246	3.5833	-0.0413
4500	100	Unbiased-168Hr-Anneal	3.634	3.6409	0.0069
4600	100	Unbiased-168Hr-Anneal	3.6164	3.6208	0.0044
4700	100	Unbiased-168Hr-Anneal	3.6141	3.6111	-0.003
4800	100	Unbiased-168Hr-Anneal	3.6181	3.6202	0.0021
4900	100	Unbiased-168Hr-Anneal	3.6327	3.6326	-0.0001
9300	0	CORRELATION	3.6077	3.5918	-0.0159
9400	0	CORRELATION	3.5974	3.5963	-0.0011
9500	0	CORRELATION	3.6085	3.6061	-0.0024
9600	0	CORRELATION	3.6084	3.6083	-0.0001
9700	0	CORRELATION	3.6227	3.6225	-0.0002



Test Statistics (V)

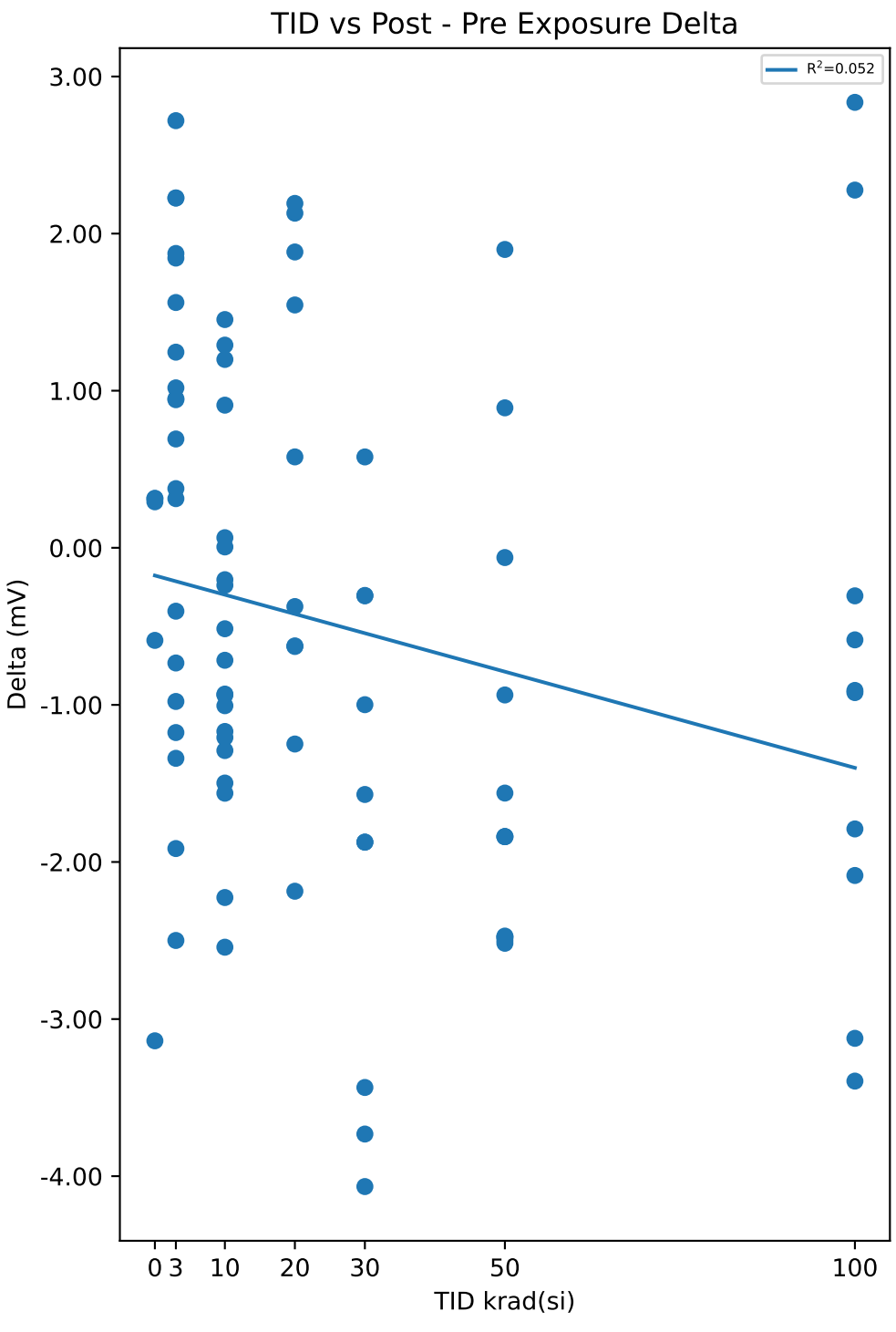
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5974	3.6089	3.6227	0.0090074	3.5918	3.605	3.6225	0.011919	-0.0159	-0.00394	-0.0001	0.0067493
3	3.5974	3.6088	3.626	0.0096146	3.5996	3.6121	3.6232	0.0096377	-0.0226	0.00334	0.0216	0.014495
10	3.5855	3.6043	3.6137	0.0091245	3.6021	3.6188	3.6357	0.0097008	0.0063	0.01454	0.0277	0.0084664
20	3.5924	3.606	3.6223	0.010375	3.5764	3.5991	3.6131	0.012975	-0.0187	-0.00696	0.0028	0.0088058
30	3.5871	3.6017	3.6191	0.0091399	3.5771	3.5886	3.6147	0.010861	-0.0257	-0.01308	0.0004	0.0092401
50	3.5836	3.6041	3.6239	0.014291	3.5577	3.5889	3.6192	0.02279	-0.0377	-0.01523	-0.0007	0.012634
100	3.6083	3.6203	3.634	0.0080424	3.5727	3.6021	3.6409	0.025593	-0.0413	-0.01814	0.0069	0.021509

Device Test: 14.24 THRESHOLD|HYST/VIN/14////@UVLO_HYST_VIN



Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

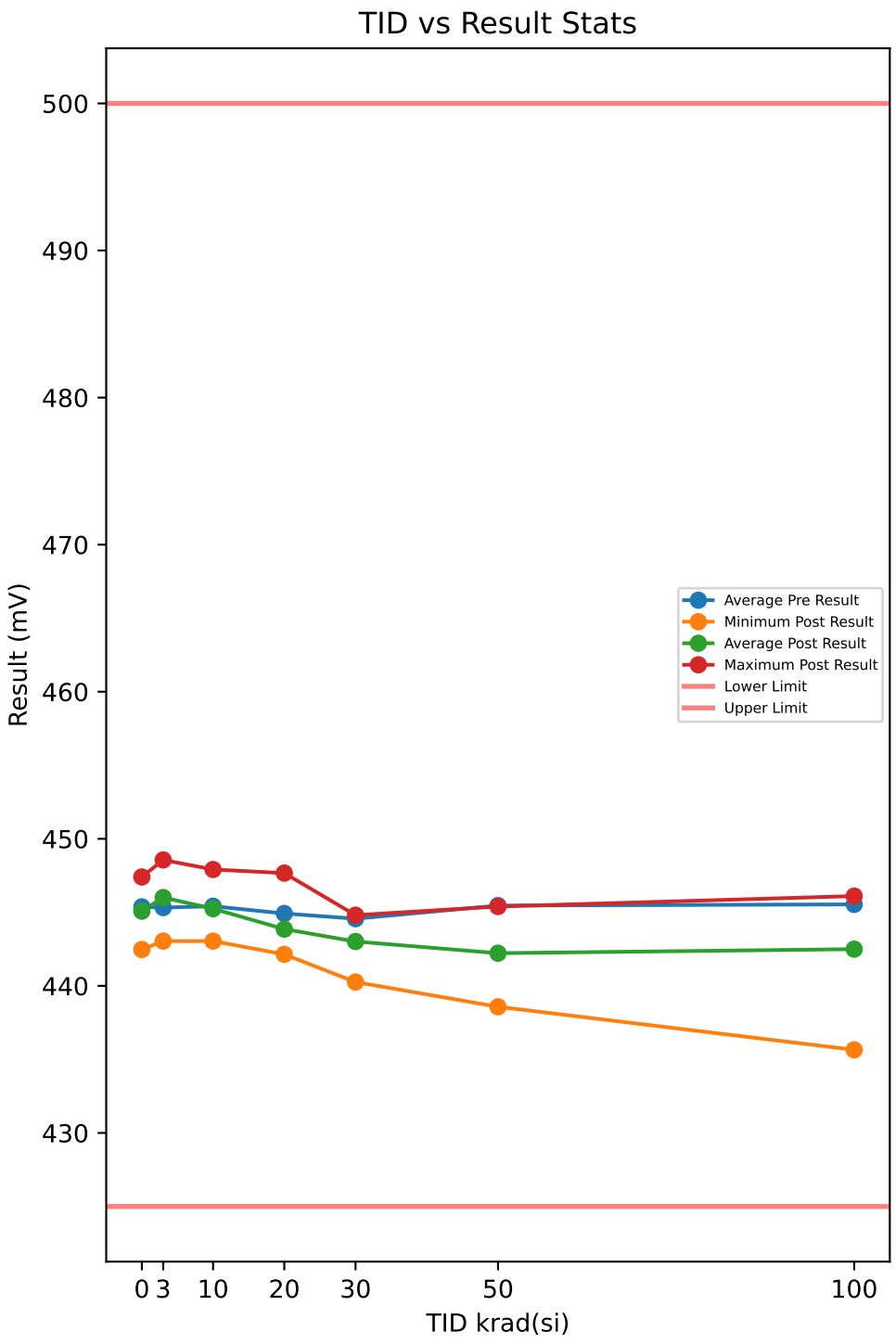
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	152.14	151.73	-0.4036
51	3	Biased	152.7	153.65	0.9489
52	3	Biased	152.08	150.9	-1.1761
53	3	Biased	152.4	152.78	0.3767
54	3	Biased	152.13	154.85	2.7189
55	3	Unbiased	153.01	154.03	1.0181
56	3	Unbiased	153.64	154.58	0.9427
57	3	Unbiased	152.4	153.65	1.2453
58	3	Unbiased	152.45	151.11	-1.3401
59	3	Unbiased	150.82	152.67	1.8442
60	10	Biased	153.33	152.4	-0.9312
61	10	Biased	152.4	152.46	0.0642
62	10	Biased	153.38	152.67	-0.716
63	10	Biased	153.32	152.15	-1.1692
64	10	Biased	152.08	152.08	0.0055
65	10	Unbiased	153.03	150.48	-2.5425
66	10	Unbiased	151.82	153.02	1.199
67	10	Unbiased	151.76	152.67	0.9079
68	10	Unbiased	152.7	152.47	-0.2387
69	10	Unbiased	153.34	151.84	-1.4975
100	20	Biased	150.84	150.21	-0.6282
200	20	Biased	151.2	151.78	0.5786
300	20	Biased	153.95	153.32	-0.6245
400	20	Biased	154.89	153.64	-1.2491
500	20	Biased	154.59	152.4	-2.1861
600	20	Unbiased	151.82	151.45	-0.3741
700	20	Unbiased	152.39	154.58	2.1921
800	20	Unbiased	151.45	153.34	1.883
900	20	Unbiased	151.46	153.01	1.5457
1000	20	Unbiased	152.13	154.26	2.13
1100	30	Biased	153.63	149.9	-3.7318
1200	30	Biased	154.58	150.51	-4.0662
1300	30	Biased	153.03	151.45	-1.5703
1400	30	Biased	152.13	152.71	0.5784
1500	30	Biased	153.32	151.45	-1.874
1600	30	Unbiased	153.95	152.08	-1.8735
1700	30	Unbiased	152.09	148.65	-3.4354
1800	30	Unbiased	151.51	150.51	-0.9987
1900	30	Unbiased	150.51	150.21	-0.3059
2000	30	Unbiased	151.45	151.15	-0.3033
2100	50	Biased-84Hr-Anneal	153.3	150.82	-2.4784
2200	50	Biased-84Hr-Anneal	151.12	153.02	1.8991
2300	50	Biased-84Hr-Anneal	154.55	152.08	-2.4717
2400	50	Biased-84Hr-Anneal	151.12	149.28	-1.8389
2500	50	Biased-84Hr-Anneal	151.78	149.26	-2.5175
2600	50	Unbiased	150.57	151.46	0.8909
2700	50	Unbiased	153.63	151.14	-2.4982
2800	50	Unbiased	152.7	151.77	-0.9368
2900	50	Unbiased	152.71	151.15	-1.5614
3000	50	Unbiased	152.13	152.07	-0.0622
4000	100	Biased-168Hr-Anneal	152.7	152.39	-0.3059
4100	100	Biased-168Hr-Anneal	152.05	148.65	-3.3948
4200	100	Biased-168Hr-Anneal	152.3	150.21	-2.0859
4300	100	Biased-168Hr-Anneal	153.3	152.39	-0.9079
4400	100	Biased-168Hr-Anneal	152.38	149.26	-3.1226
4500	100	Unbiased-168Hr-Anneal	152.61	154.89	2.2769
4600	100	Unbiased-168Hr-Anneal	151.74	154.57	2.8355
4700	100	Unbiased-168Hr-Anneal	151.68	149.89	-1.7896
4800	100	Unbiased-168Hr-Anneal	153.01	152.09	-0.9217
4900	100	Unbiased-168Hr-Anneal	152.99	152.4	-0.5861
9300	0	CORRELATION	153.65	150.51	-3.1383
9400	0	CORRELATION	152.39	152.7	0.314
9500	0	CORRELATION	152.99	152.4	-0.5894
9600	0	CORRELATION	152.09	152.39	0.2927
9700	0	CORRELATION	153.33	153.64	0.3142

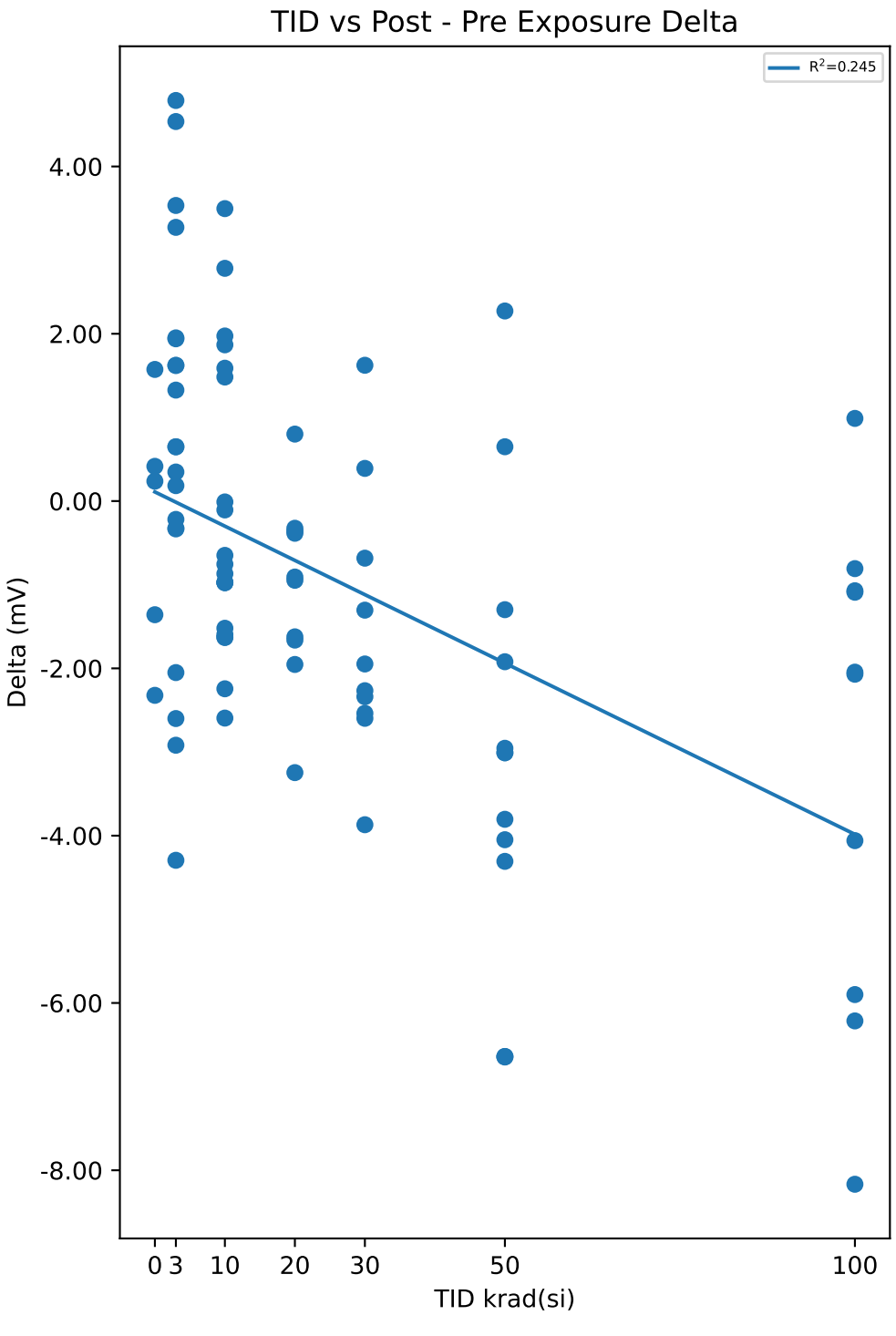


Test Statistics (mV)

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	152.09	152.89	153.65	0.64498	150.51	152.33	153.64	1.1372	-3.1383	-0.56136	0.3142	1.492
3	150.82	152.38	153.64	0.72443	150.9	152.99	154.85	1.3977	-1.3401	0.6175	2.7189	1.2841
10	151.76	152.72	153.38	0.65724	150.48	152.22	153.02	0.69763	-2.5425	-0.49185	1.199	1.1234
20	150.84	152.47	154.89	1.4668	150.21	152.8	154.58	1.3472	-2.1861	0.32674	2.1921	1.5566
30	150.51	152.62	154.58	1.2845	148.65	150.86	152.71	1.1626	-4.0662	-1.7581	0.5784	1.5762
50	150.57	152.36	154.55	1.2573	149.26	151.2	153.02	1.1935	-2.5175	-1.1575	1.8991	1.5823
100	151.68	152.48	153.3	0.54788	148.65	151.67	154.89	2.1272	-3.3948	-0.80021	2.8355	2.0483

Device Test: 14.3 THRESHOLD|HYST/PVIN/4.5////@UVLO_HYST_PVIN





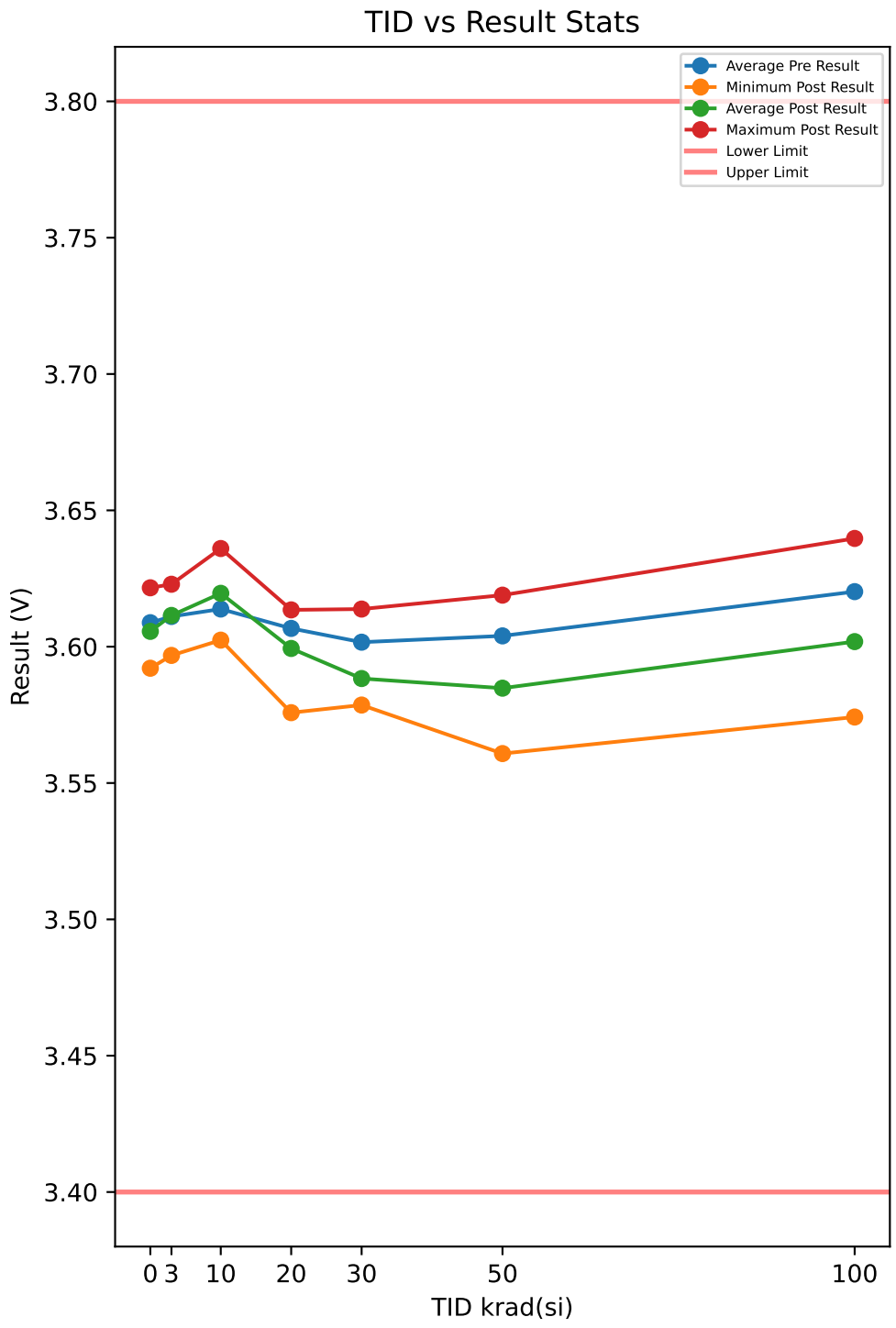
Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

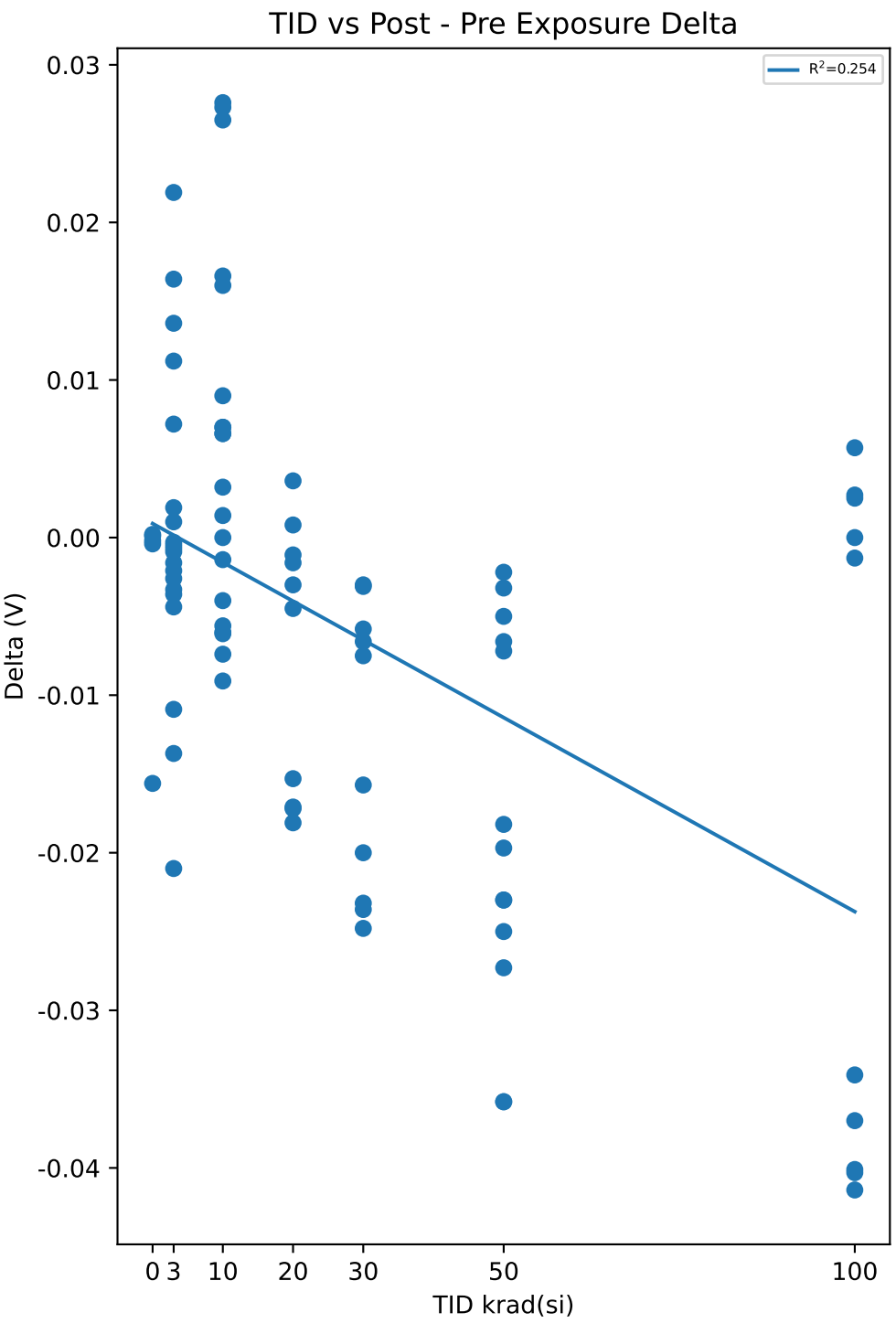
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	444.78	446.72	1.9398
51	3	Biased	445.4	445.74	0.3472
52	3	Biased	447.34	443.04	-4.2944
53	3	Biased	444.81	444.99	0.1844
54	3	Biased	442.18	446.72	4.5372
55	3	Unbiased	443.77	448.56	4.7888
56	3	Unbiased	445.71	447.04	1.3266
57	3	Unbiased	442.21	445.74	3.5337
58	3	Unbiased	444.78	444.45	-0.3328
59	3	Unbiased	443.77	447.04	3.2721
60	10	Biased	446.04	444.44	-1.595
61	10	Biased	443.83	445.32	1.4829
62	10	Biased	445.75	444.12	-1.6315
63	10	Biased	443.45	445.32	1.8679
64	10	Biased	445.71	443.47	-2.2441
65	10	Unbiased	445.46	447.04	1.5882
66	10	Unbiased	446.73	446.72	-0.0106
67	10	Unbiased	443.12	445.1	1.9732
68	10	Unbiased	444.42	447.91	3.496
69	10	Unbiased	440.26	443.04	2.7822
100	20	Biased	442.71	443.51	0.8006
200	20	Biased	443.81	442.86	-0.9471
300	20	Biased	445.07	444.75	-0.325
400	20	Biased	445.39	442.14	-3.2463
500	20	Biased	446.75	445.13	-1.6232
600	20	Unbiased	448.03	447.67	-0.3585
700	20	Unbiased	444.75	442.79	-1.9533
800	20	Unbiased	444.42	443.51	-0.9082
900	20	Unbiased	443.83	443.45	-0.385
1000	20	Unbiased	444.45	442.79	-1.662
1100	30	Biased	442.8	440.26	-2.537
1200	30	Biased	443.77	441.5	-2.267
1300	30	Biased	446.75	444.42	-2.3386
1400	30	Biased	444.45	440.59	-3.8691
1500	30	Biased	447.02	444.42	-2.5971
1600	30	Unbiased	445.39	443.44	-1.9476
1700	30	Unbiased	442.53	444.16	1.6234
1800	30	Unbiased	445.1	444.42	-0.6827
1900	30	Unbiased	443.45	442.14	-1.3041
2000	30	Unbiased	444.42	444.81	0.3905
2100	50	Biased-84Hr-Anneal	445.22	438.58	-6.64
2200	50	Biased-84Hr-Anneal	447.82	441.17	-6.6459
2300	50	Biased-84Hr-Anneal	447.17	443.12	-4.0484
2400	50	Biased-84Hr-Anneal	443.92	439.61	-4.3071
2500	50	Biased-84Hr-Anneal	444.01	440.2	-3.8043
2600	50	Unbiased	446.08	444.16	-1.9207
2700	50	Unbiased	446.69	445.4	-1.2984
2800	50	Unbiased	442.79	445.07	2.2723
2900	50	Unbiased	443.18	443.83	0.6494
3000	50	Unbiased	447.7	444.75	-2.9554
4000	100	Biased-168Hr-Anneal	443.82	435.65	-8.1672
4100	100	Biased-168Hr-Anneal	442.96	440.91	-2.0453
4200	100	Biased-168Hr-Anneal	444.21	438.31	-5.8996
4300	100	Biased-168Hr-Anneal	446.2	442.14	-4.0594
4400	100	Biased-168Hr-Anneal	447.06	440.85	-6.2145
4500	100	Unbiased-168Hr-Anneal	448.11	446.04	-2.0701
4600	100	Unbiased-168Hr-Anneal	445.88	445.07	-0.8077
4700	100	Unbiased-168Hr-Anneal	445.51	444.42	-1.09
4800	100	Unbiased-168Hr-Anneal	445.12	446.11	0.9881
4900	100	Unbiased-168Hr-Anneal	446.53	445.46	-1.0721
9300	0	CORRELATION	443.83	442.47	-1.3587
9400	0	CORRELATION	445.44	447.01	1.5736
9500	0	CORRELATION	447.17	447.4	0.2375
9600	0	CORRELATION	443.68	444.1	0.4152
9700	0	CORRELATION	446.74	444.42	-2.3224

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	443.68	445.37	447.17	1.6062	442.47	445.08	447.4	2.0819	-2.3224	-0.29096	1.5736	1.5428
3	442.18	444.48	447.34	1.5724	443.04	446.01	448.56	1.5661	-4.2944	1.5303	4.7888	2.7391
10	440.26	444.48	446.73	1.9064	443.04	445.25	447.91	1.5792	-2.2441	0.77092	3.496	2.0101
20	442.71	444.92	448.03	1.5303	442.14	443.86	447.67	1.6174	-3.2463	-1.0608	0.8006	1.1177
30	442.53	444.57	447.02	1.5258	440.26	443.02	444.81	1.737	-3.8691	-1.5529	1.6234	1.6122
50	442.79	445.46	447.82	1.8925	438.58	442.59	445.4	2.4858	-6.6459	-2.8698	2.2723	2.8868
100	442.96	445.54	448.11	1.5649	435.65	442.5	446.11	3.5648	-8.1672	-3.0438	0.9881	2.9135

Device Test: 14.4 THRESHOLD|RISE/VIN/4.5////@UVLO_RISE_VIN





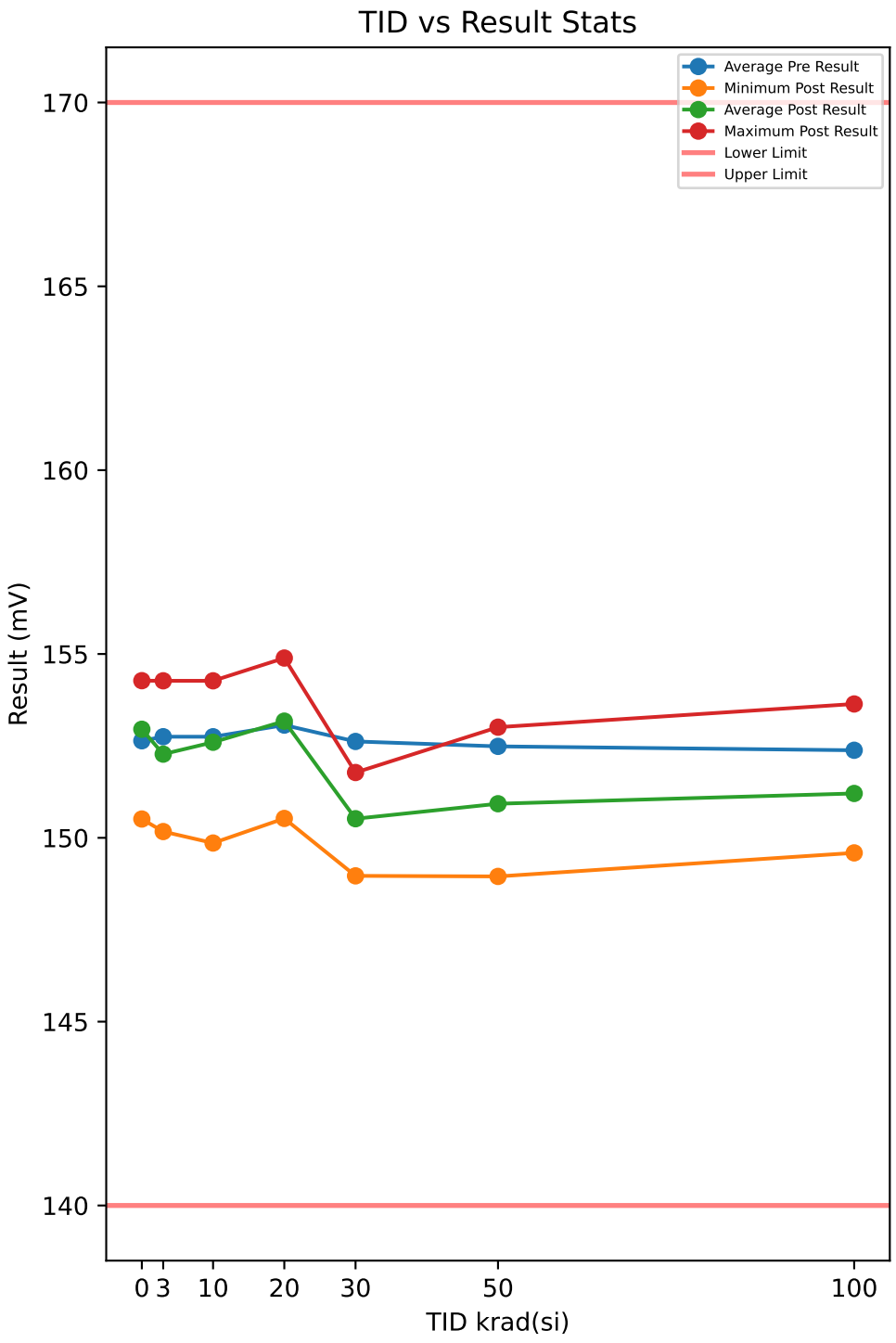
Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))

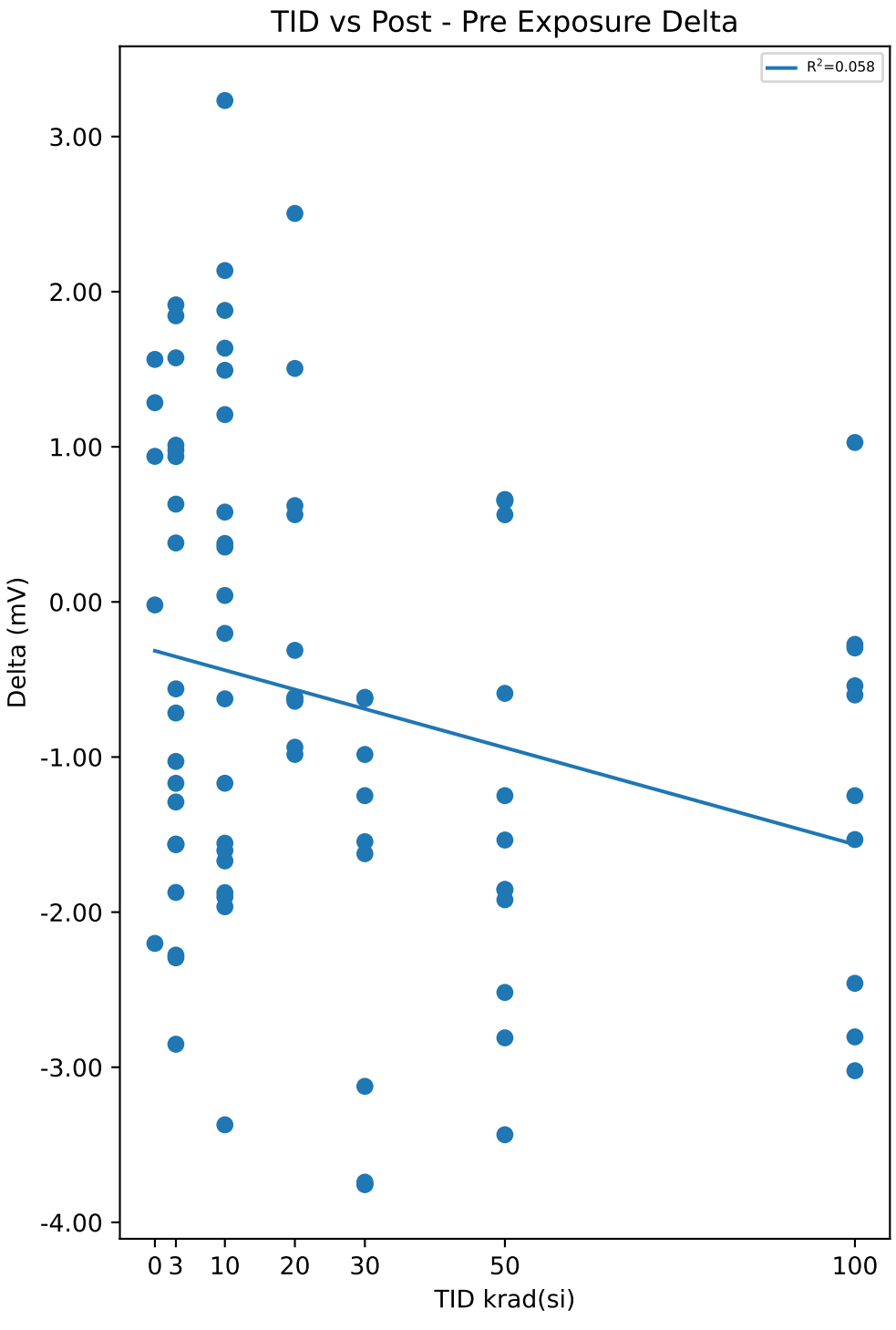
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.6177	3.604	-0.0137
51	3	Biased	3.6033	3.6197	0.0164
52	3	Biased	3.6253	3.6043	-0.021
53	3	Biased	3.6005	3.5996	-0.0009
54	3	Biased	3.6077	3.5968	-0.0109
55	3	Unbiased	3.6018	3.609	0.0072
56	3	Unbiased	3.621	3.6229	0.0019
57	3	Unbiased	3.6052	3.6188	0.0136
58	3	Unbiased	3.6096	3.6208	0.0112
59	3	Unbiased	3.5968	3.6187	0.0219
60	10	Biased	3.6103	3.6173	0.007
61	10	Biased	3.6074	3.614	0.0066
62	10	Biased	3.6137	3.6227	0.009
63	10	Biased	3.5858	3.6024	0.0166
64	10	Biased	3.61	3.6166	0.0066
65	10	Unbiased	3.5995	3.6268	0.0273
66	10	Unbiased	3.6084	3.636	0.0276
67	10	Unbiased	3.613	3.629	0.016
68	10	Unbiased	3.5941	3.6206	0.0265
69	10	Unbiased	3.6033	3.6103	0.007
100	20	Biased	3.5934	3.597	0.0036
200	20	Biased	3.593	3.5758	-0.0172
300	20	Biased	3.6139	3.5986	-0.0153
400	20	Biased	3.5944	3.5763	-0.0181
500	20	Biased	3.6223	3.6052	-0.0171
600	20	Unbiased	3.6137	3.6092	-0.0045
700	20	Unbiased	3.6127	3.6135	0.0008
800	20	Unbiased	3.6035	3.6005	-0.003
900	20	Unbiased	3.6083	3.6067	-0.0016
1000	20	Unbiased	3.6118	3.6107	-0.0011
1100	30	Biased	3.5943	3.5786	-0.0157
1200	30	Biased	3.6041	3.5793	-0.0248
1300	30	Biased	3.6111	3.5875	-0.0236
1400	30	Biased	3.6062	3.583	-0.0232
1500	30	Biased	3.6005	3.5805	-0.02
1600	30	Unbiased	3.6169	3.6138	-0.0031
1700	30	Unbiased	3.5983	3.5917	-0.0066
1800	30	Unbiased	3.603	3.5955	-0.0075
1900	30	Unbiased	3.5896	3.5866	-0.003
2000	30	Unbiased	3.5925	3.5867	-0.0058
2100	50	Biased-84Hr-Anneal	3.5982	3.5624	-0.0358
2200	50	Biased-84Hr-Anneal	3.6057	3.5875	-0.0182
2300	50	Biased-84Hr-Anneal	3.6135	3.5885	-0.025
2400	50	Biased-84Hr-Anneal	3.5836	3.5639	-0.0197
2500	50	Biased-84Hr-Anneal	3.5881	3.5608	-0.0273
2600	50	Unbiased	3.6143	3.6111	-0.0032
2700	50	Unbiased	3.6239	3.6189	-0.005
2800	50	Unbiased	3.6022	3.595	-0.0072
2900	50	Unbiased	3.5899	3.5833	-0.0066
3000	50	Unbiased	3.6202	3.618	-0.0022
4000	100	Biased-168Hr-Anneal	3.619	3.5776	-0.0414
4100	100	Biased-168Hr-Anneal	3.6083	3.5742	-0.0341
4200	100	Biased-168Hr-Anneal	3.6166	3.5796	-0.037
4300	100	Biased-168Hr-Anneal	3.6189	3.5788	-0.0401
4400	100	Biased-168Hr-Anneal	3.6246	3.5843	-0.0403
4500	100	Unbiased-168Hr-Anneal	3.634	3.6397	0.0057
4600	100	Unbiased-168Hr-Anneal	3.6167	3.6192	0.0025
4700	100	Unbiased-168Hr-Anneal	3.6137	3.6124	-0.0013
4800	100	Unbiased-168Hr-Anneal	3.6171	3.6198	0.0027
4900	100	Unbiased-168Hr-Anneal	3.633	3.633	0
9300	0	CORRELATION	3.6077	3.5921	-0.0156
9400	0	CORRELATION	3.5977	3.5978	0.0001
9500	0	CORRELATION	3.6082	3.608	-0.0002
9600	0	CORRELATION	3.609	3.6086	-0.0004
9700	0	CORRELATION	3.6214	3.6216	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	3.5977	3.6088	3.6214	0.0084199	3.5921	3.6056	3.6216	0.011334	-0.0156	-0.00318	0.0002	0.0069471
3	3.5968	3.6089	3.6253	0.0094702	3.5968	3.6115	3.6229	0.00978	-0.021	0.00257	0.0219	0.014129
10	3.5858	3.6045	3.6137	0.0089979	3.6024	3.6196	3.636	0.0097053	0.0066	0.01502	0.0276	0.0091346
20	3.593	3.6067	3.6223	0.010192	3.5758	3.5993	3.6135	0.013365	-0.0181	-0.00735	0.0036	0.0085397
30	3.5896	3.6017	3.6169	0.0084714	3.5786	3.5883	3.6138	0.010455	-0.0248	-0.01333	-0.003	0.0090179
50	3.5836	3.604	3.6239	0.013993	3.5608	3.5889	3.6189	0.022179	-0.0358	-0.01502	-0.0022	0.011789
100	3.6083	3.6202	3.634	0.0081339	3.5742	3.6019	3.6397	0.025439	-0.0414	-0.01833	0.0057	0.021514

Device Test: 14.6 THRESHOLD|HYST/VIN/4.5////@UVLO_HYST_VIN





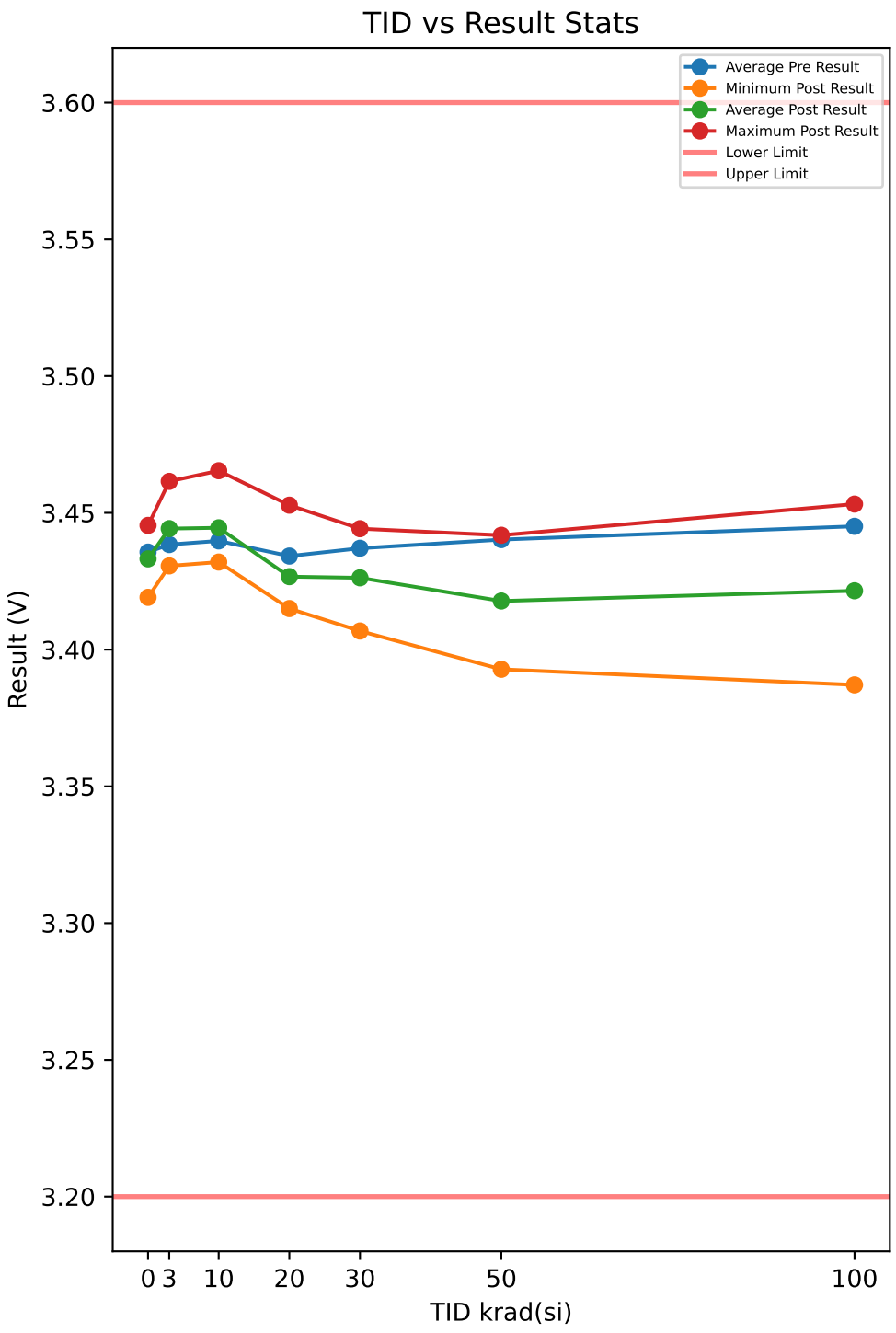
Test Results (Lower Limit = 140.0, Upper Limit = 170.0 (mV))

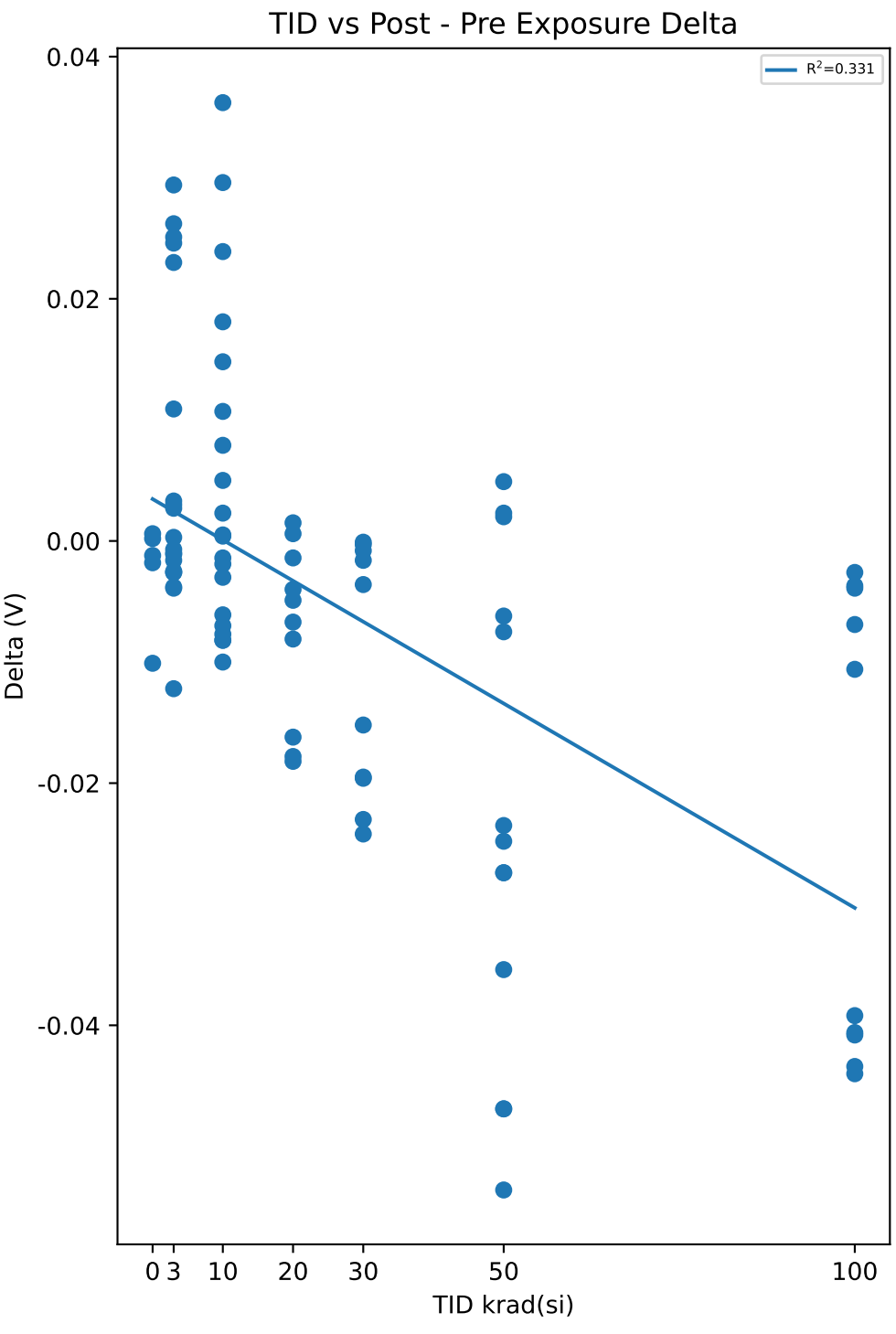
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	152.76	152.04	-0.716
51	3	Biased	152.07	153.65	1.5735
52	3	Biased	151.14	152.15	1.0104
53	3	Biased	152.71	152.15	-0.5606
54	3	Biased	153.07	152.04	-1.0283
55	3	Unbiased	152.7	151.53	-1.1694
56	3	Unbiased	153.64	154.27	0.6304
57	3	Unbiased	153.96	152.4	-1.5652
58	3	Unbiased	152.45	150.17	-2.2769
59	3	Unbiased	150.51	152.36	1.8444
60	10	Biased	153.95	152.4	-1.5556
61	10	Biased	152.4	152.78	0.3767
62	10	Biased	154.01	152.04	-1.9653
63	10	Biased	153.63	152.47	-1.169
64	10	Biased	152.39	154.27	1.8792
65	10	Unbiased	153.03	153.6	0.5791
66	10	Unbiased	151.2	153.33	2.1362
67	10	Unbiased	151.76	149.86	-1.9021
68	10	Unbiased	152.39	154.03	1.6358
69	10	Unbiased	154.59	151.22	-3.3712
100	20	Biased	151.78	152.4	0.6208
200	20	Biased	151.51	150.53	-0.9832
300	20	Biased	153.63	153.32	-0.3124
400	20	Biased	153.95	153.02	-0.9369
500	20	Biased	154.59	153.96	-0.6247
600	20	Unbiased	152.45	153.01	0.5624
700	20	Unbiased	152.39	154.89	2.5044
800	20	Unbiased	153.64	153.03	-0.6151
900	20	Unbiased	153.65	153.01	-0.6404
1000	20	Unbiased	153.07	154.58	1.5052
1100	30	Biased	152.7	151.15	-1.5456
1200	30	Biased	154.27	150.51	-3.7539
1300	30	Biased	153.65	149.89	-3.7565
1400	30	Biased	152.76	151.78	-0.9835
1500	30	Biased	153.01	151.76	-1.2491
1600	30	Unbiased	151.77	151.14	-0.6246
1700	30	Unbiased	152.09	148.97	-3.123
1800	30	Unbiased	151.82	150.2	-1.6234
1900	30	Unbiased	153.01	149.27	-3.7408
2000	30	Unbiased	151.14	150.53	-0.6154
2100	50	Biased-84Hr-Anneal	150.8	148.95	-1.8544
2200	50	Biased-84Hr-Anneal	151.74	152.39	0.6499
2300	50	Biased-84Hr-Anneal	152.37	150.83	-1.5351
2400	50	Biased-84Hr-Anneal	151.12	150.53	-0.5896
2500	50	Biased-84Hr-Anneal	154.28	151.76	-2.5177
2600	50	Unbiased	151.82	149.9	-1.9203
2700	50	Unbiased	153.95	151.14	-2.8105
2800	50	Unbiased	152.39	151.14	-1.249
2900	50	Unbiased	153.96	150.53	-3.4351
3000	50	Unbiased	152.45	153.01	0.5622
4000	100	Biased-168Hr-Anneal	153.01	150.21	-2.8043
4100	100	Biased-168Hr-Anneal	152.36	149.9	-2.4589
4200	100	Biased-168Hr-Anneal	152.61	149.59	-3.0224
4300	100	Biased-168Hr-Anneal	152.99	151.45	-1.5321
4400	100	Biased-168Hr-Anneal	151.76	150.51	-1.2493
4500	100	Unbiased-168Hr-Anneal	152.61	153.64	1.0278
4600	100	Unbiased-168Hr-Anneal	152.05	151.45	-0.5999
4700	100	Unbiased-168Hr-Anneal	151.36	150.82	-0.5407
4800	100	Unbiased-168Hr-Anneal	152.07	151.78	-0.297
4900	100	Unbiased-168Hr-Anneal	152.99	152.71	-0.2737
9300	0	CORRELATION	152.71	150.51	-2.2015
9400	0	CORRELATION	152.7	154.27	1.5633
9500	0	CORRELATION	152.99	154.27	1.2843
9600	0	CORRELATION	152.72	152.7	-0.0196
9700	0	CORRELATION	152.08	153.02	0.9385

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	152.08	152.64	152.99	0.3369	150.51	152.95	154.27	1.541	-2.2015	0.313	1.5633	1.5274
3	150.51	152.5	153.96	1.0488	150.17	152.28	154.27	1.106	-2.2769	-0.22577	1.8444	1.4013
10	151.2	152.93	154.59	1.0898	149.86	152.6	154.27	1.342	-3.3712	-0.33562	2.1362	1.9077
20	151.51	153.07	154.59	1.0008	150.53	153.17	154.89	1.2139	-0.9832	0.10801	2.5044	1.1664
30	151.14	152.62	154.27	0.93844	148.97	150.52	151.78	0.96506	-3.7565	-2.1016	-0.6154	1.3377
50	150.8	152.49	154.28	1.2132	148.95	151.02	153.01	1.1771	-3.4351	-1.47	0.6499	1.3564
100	151.36	152.38	153.01	0.56379	149.59	151.21	153.64	1.2729	-3.0224	-1.175	1.0278	1.2918

Device Test: 14.7 THRESHOLD|RISE/PVIN/5////@UVLO_RISE_PVIN





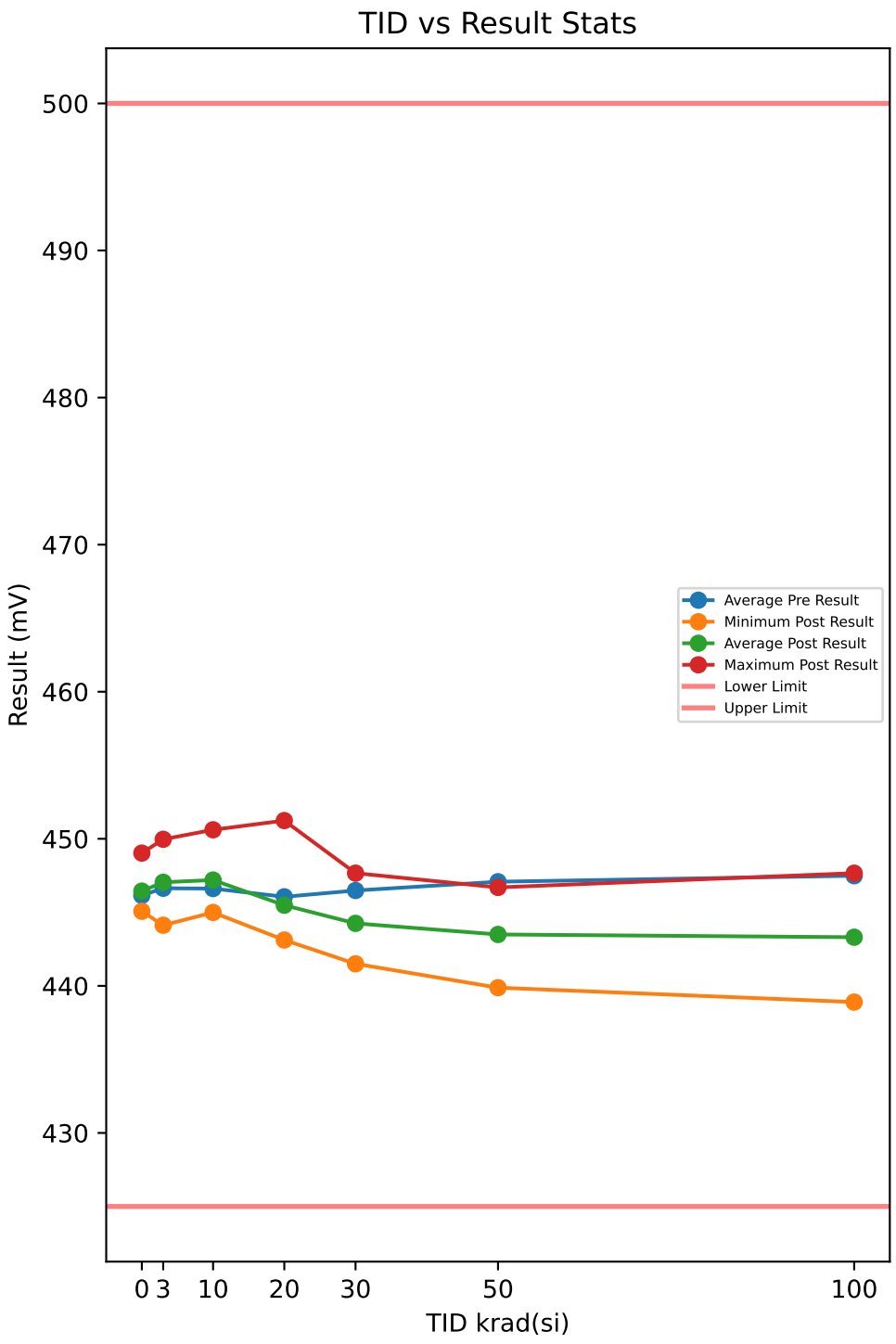
Test Results (Lower Limit = 3.2, Upper Limit = 3.6 (V))

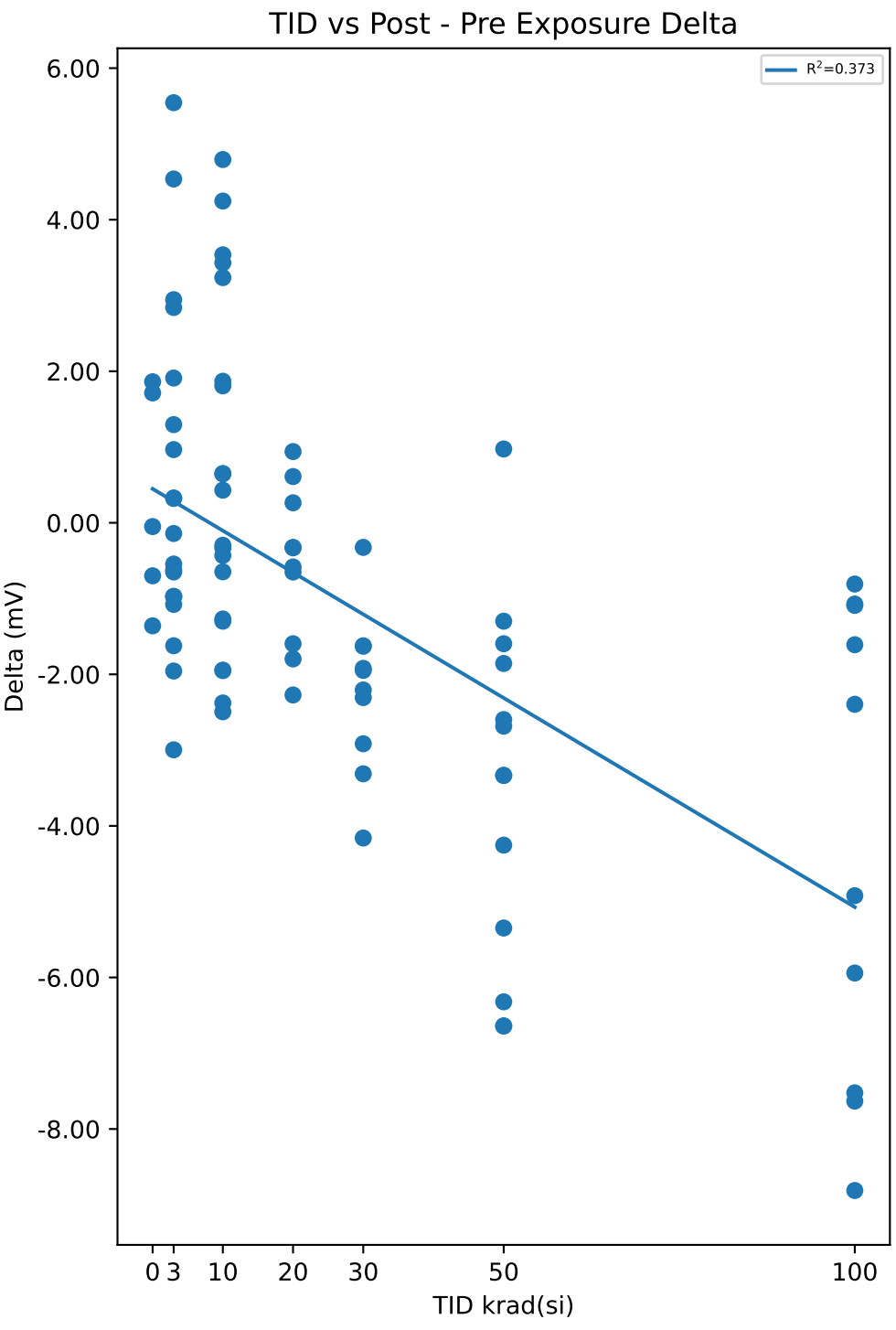
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.4341	3.4371	0.003
51	3	Biased	3.4301	3.4531	0.023
52	3	Biased	3.4429	3.4307	-0.0122
53	3	Biased	3.4279	3.4388	0.0109
54	3	Biased	3.4299	3.455	0.0251
55	3	Unbiased	3.4191	3.4485	0.0294
56	3	Unbiased	3.4384	3.4417	0.0033
57	3	Unbiased	3.4207	3.4453	0.0246
58	3	Unbiased	3.4344	3.4306	-0.0038
59	3	Unbiased	3.4353	3.4615	0.0262
60	10	Biased	3.4449	3.4388	-0.0061
61	10	Biased	3.4318	3.4368	0.005
62	10	Biased	3.4263	3.4342	0.0079
63	10	Biased	3.4317	3.4424	0.0107
64	10	Biased	3.4328	3.4333	0.0005
65	10	Unbiased	3.4243	3.4605	0.0362
66	10	Unbiased	3.4435	3.4583	0.0148
67	10	Unbiased	3.4255	3.4436	0.0181
68	10	Unbiased	3.4358	3.4654	0.0296
69	10	Unbiased	3.4081	3.432	0.0239
100	20	Biased	3.4211	3.4162	-0.0049
200	20	Biased	3.4389	3.4207	-0.0182
300	20	Biased	3.4333	3.4155	-0.0178
400	20	Biased	3.4312	3.415	-0.0162
500	20	Biased	3.4477	3.4396	-0.0081
600	20	Unbiased	3.4568	3.4528	-0.004
700	20	Unbiased	3.4278	3.4293	0.0015
800	20	Unbiased	3.4332	3.4318	-0.0014
900	20	Unbiased	3.424	3.4246	0.0006
1000	20	Unbiased	3.4279	3.4212	-0.0067
1100	30	Biased	3.4298	3.4068	-0.023
1200	30	Biased	3.4289	3.4093	-0.0196
1300	30	Biased	3.447	3.4228	-0.0242
1400	30	Biased	3.4273	3.4078	-0.0195
1500	30	Biased	3.4518	3.4366	-0.0152
1600	30	Unbiased	3.4458	3.4442	-0.0016
1700	30	Unbiased	3.4308	3.4305	-0.0003
1800	30	Unbiased	3.4383	3.4382	-0.0001
1900	30	Unbiased	3.433	3.4322	-0.0008
2000	30	Unbiased	3.4377	3.4341	-0.0036
2100	50	Biased-84Hr-Anneal	3.4397	3.3928	-0.0469
2200	50	Biased-84Hr-Anneal	3.4504	3.3968	-0.0536
2300	50	Biased-84Hr-Anneal	3.4582	3.4228	-0.0354
2400	50	Biased-84Hr-Anneal	3.428	3.4045	-0.0235
2500	50	Biased-84Hr-Anneal	3.4302	3.4054	-0.0248
2600	50	Unbiased	3.4422	3.4347	-0.0075
2700	50	Unbiased	3.4398	3.4418	0.002
2800	50	Unbiased	3.4322	3.4371	0.0049
2900	50	Unbiased	3.4337	3.436	0.0023
3000	50	Unbiased	3.4477	3.4415	-0.0062
4000	100	Biased-168Hr-Anneal	3.4305	3.3871	-0.0434
4100	100	Biased-168Hr-Anneal	3.4346	3.3954	-0.0392
4200	100	Biased-168Hr-Anneal	3.4393	3.3987	-0.0406
4300	100	Biased-168Hr-Anneal	3.4428	3.402	-0.0408
4400	100	Biased-168Hr-Anneal	3.4523	3.4083	-0.044
4500	100	Unbiased-168Hr-Anneal	3.4503	3.4397	-0.0106
4600	100	Unbiased-168Hr-Anneal	3.4431	3.4405	-0.0026
4700	100	Unbiased-168Hr-Anneal	3.4406	3.4369	-0.0037
4800	100	Unbiased-168Hr-Anneal	3.4601	3.4532	-0.0069
4900	100	Unbiased-168Hr-Anneal	3.4571	3.4532	-0.0039
9300	0	CORRELATION	3.4318	3.4217	-0.0101
9400	0	CORRELATION	3.4441	3.4423	-0.0018
9500	0	CORRELATION	3.4452	3.4454	0.0002
9600	0	CORRELATION	3.4185	3.4191	0.0006
9700	0	CORRELATION	3.4386	3.4374	-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	3.4185	3.4356	3.4452	0.010957	3.4191	3.4332	3.4454	0.012045	-0.0101	-0.00246	0.0006	0.0043827
3	3.4191	3.4313	3.4429	0.007413	3.4306	3.4442	3.4615	0.01037	-0.0122	0.01295	0.0294	0.014682
10	3.4081	3.4305	3.4449	0.010518	3.432	3.4445	3.4654	0.012329	-0.0061	0.01406	0.0362	0.013195
20	3.4211	3.4342	3.4568	0.010966	3.415	3.4267	3.4528	0.012127	-0.0182	-0.00752	0.0015	0.0074543
30	3.4273	3.437	3.4518	0.0085934	3.4068	3.4263	3.4442	0.013764	-0.0242	-0.01079	-0.0001	0.010339
50	3.428	3.4402	3.4582	0.0096827	3.3928	3.4213	3.4418	0.019503	-0.0536	-0.01887	0.0049	0.02124
100	3.4305	3.4451	3.4601	0.009629	3.3871	3.4215	3.4532	0.025556	-0.044	-0.02357	-0.0026	0.019176

Device Test: 14.9 THRESHOLD|HYST/PVIN/5////@UVLO_HYST_PVIN





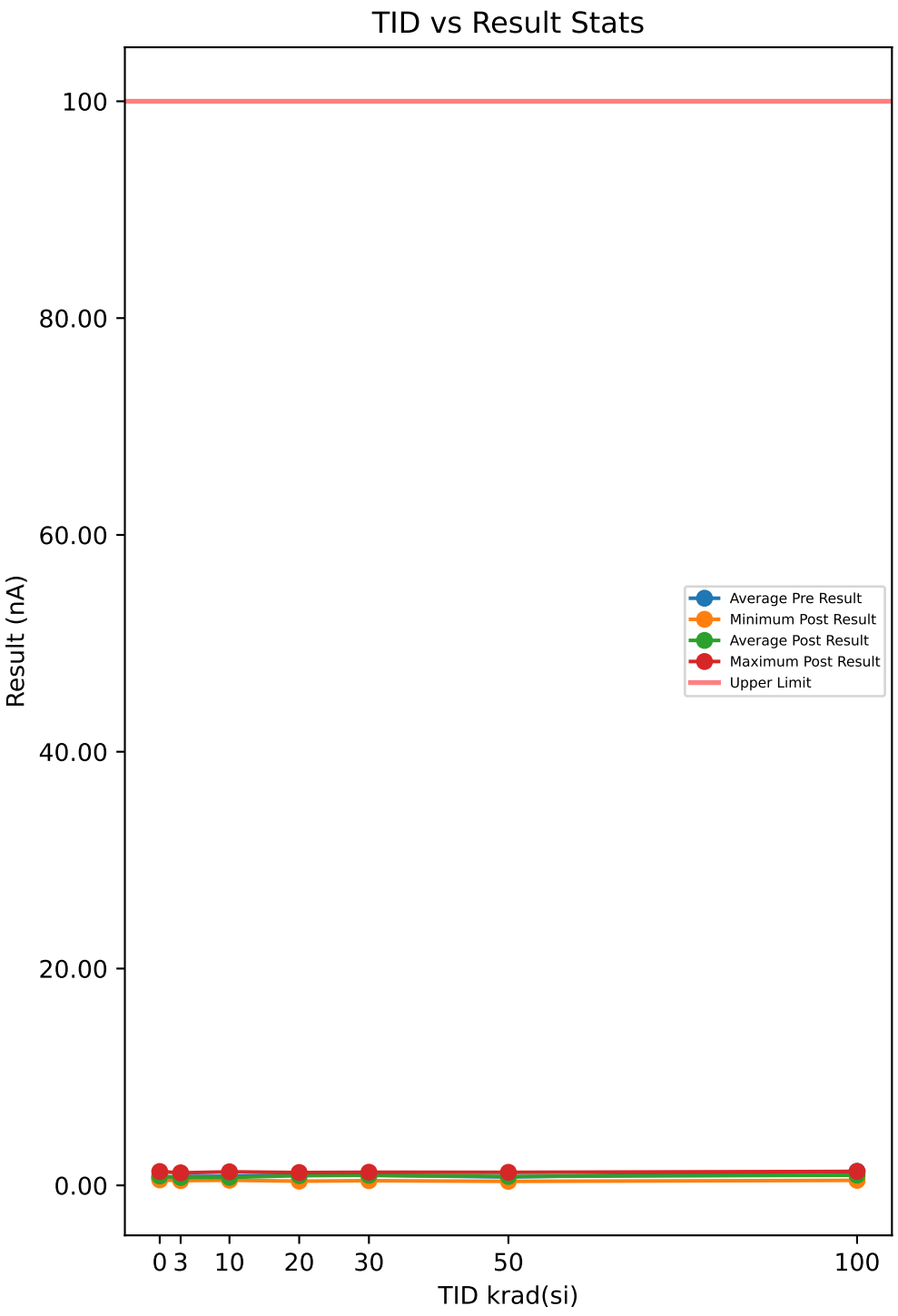
Test Results (Lower Limit = 425.0, Upper Limit = 500.0 (mV))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	445.75	446.72	0.9659
51	3	Biased	446.04	448.99	2.9446
52	3	Biased	447.34	444.34	-2.9959
53	3	Biased	446.75	446.61	-0.1411
54	3	Biased	444.13	448.67	4.537
55	3	Unbiased	445.07	447.91	2.8414
56	3	Unbiased	447.34	446.72	-0.6208
57	3	Unbiased	444.48	446.39	1.9101
58	3	Unbiased	446.08	444.12	-1.9562
59	3	Unbiased	444.42	449.97	5.5442
60	10	Biased	447.01	445.74	-1.27
61	10	Biased	444.16	445.96	1.8073
62	10	Biased	447.05	446.72	-0.3328
63	10	Biased	445.07	446.94	1.8677
64	10	Biased	445.39	445.09	-0.2963
65	10	Unbiased	444.16	447.69	3.5362
66	10	Unbiased	447.38	450.61	3.236
67	10	Unbiased	444.1	448.34	4.246
68	10	Unbiased	445.07	449.86	4.7942
69	10	Unbiased	441.56	444.99	3.431
100	20	Biased	444.98	443.18	-1.7964
200	20	Biased	446.08	444.48	-1.5962
300	20	Biased	445.72	445.4	-0.3247
400	20	Biased	445.39	443.12	-2.2721
500	20	Biased	447.08	446.43	-0.6495
600	20	Unbiased	450.3	451.24	0.94
700	20	Unbiased	445.07	444.74	-0.3301
800	20	Unbiased	445.71	445.13	-0.583
900	20	Unbiased	445.13	445.4	0.264
1000	20	Unbiased	445.1	445.71	0.6102
1100	30	Biased	445.72	441.56	-4.16
1200	30	Biased	444.42	441.5	-2.9162
1300	30	Biased	446.75	443.44	-3.3125
1400	30	Biased	445.75	443.83	-1.921
1500	30	Biased	449.29	447.34	-1.9477
1600	30	Unbiased	447.99	447.66	-0.3245
1700	30	Unbiased	445.78	444.16	-1.6234
1800	30	Unbiased	447.38	445.07	-2.3063
1900	30	Unbiased	445.07	443.44	-1.6285
2000	30	Unbiased	446.69	444.48	-2.2064
2100	50	Biased-84Hr-Anneal	446.52	439.88	-6.6404
2200	50	Biased-84Hr-Anneal	448.79	442.47	-6.3217
2300	50	Biased-84Hr-Anneal	449.11	443.77	-5.3478
2400	50	Biased-84Hr-Anneal	445.54	442.86	-2.6839
2500	50	Biased-84Hr-Anneal	444.65	442.8	-1.8566
2600	50	Unbiased	447.38	445.78	-1.5959
2700	50	Unbiased	447.99	446.69	-1.2985
2800	50	Unbiased	446.36	443.77	-2.5969
2900	50	Unbiased	444.16	445.13	0.9739
3000	50	Unbiased	450.3	446.04	-4.2542
4000	100	Biased-168Hr-Anneal	443.82	438.9	-4.9211
4100	100	Biased-168Hr-Anneal	445.55	439.61	-5.9418
4200	100	Biased-168Hr-Anneal	447.46	439.94	-7.5232
4300	100	Biased-168Hr-Anneal	449.13	441.49	-7.6316
4400	100	Biased-168Hr-Anneal	449.34	440.53	-8.8116
4500	100	Unbiased-168Hr-Anneal	450.06	447.66	-2.3953
4600	100	Unbiased-168Hr-Anneal	446.85	446.04	-0.8081
4700	100	Unbiased-168Hr-Anneal	446.49	445.4	-1.0902
4800	100	Unbiased-168Hr-Anneal	448.36	446.75	-1.6092
4900	100	Unbiased-168Hr-Anneal	447.83	446.75	-1.0723
9300	0	CORRELATION	446.43	445.07	-1.3595
9400	0	CORRELATION	447.39	446.69	-0.6992
9500	0	CORRELATION	447.17	449.03	1.8611
9600	0	CORRELATION	443.36	445.07	1.7139
9700	0	CORRELATION	446.41	446.36	-0.0498

Test Statistics (mV)

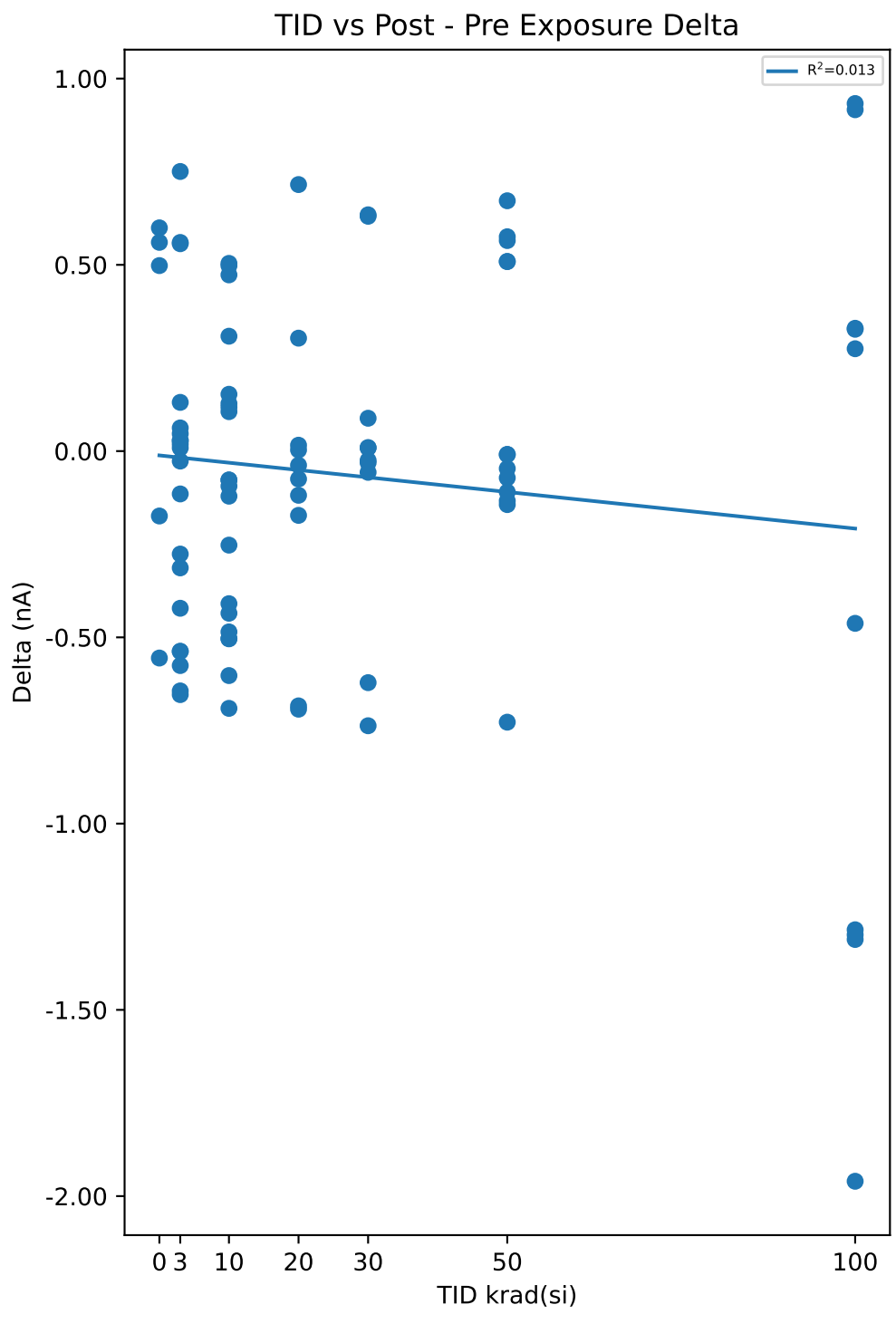
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	443.36	446.15	447.39	1.6213	445.07	446.44	449.03	1.6212	-1.3595	0.2933	1.8611	1.4414
3	444.13	445.74	447.34	1.188	444.12	447.04	449.97	1.8966	-2.9959	1.3029	5.5442	2.7665
10	441.56	445.09	447.38	1.7656	444.99	447.2	450.61	1.9303	-1.27	2.1019	4.7942	2.112
20	444.98	446.06	450.3	1.6198	443.12	445.48	451.24	2.2768	-2.2721	-0.57378	0.94	1.0513
30	444.42	446.48	449.29	1.4505	441.5	444.25	447.66	2.0609	-4.16	-2.2346	-0.3245	1.0493
50	444.16	447.08	450.3	1.9989	439.88	443.92	446.69	2.0555	-6.6404	-3.1622	0.9739	2.4344
100	443.82	447.49	450.06	1.8917	438.9	443.31	447.66	3.4972	-8.8116	-4.1804	-0.8081	3.1369

Device Test: 15.1 LEAK|UNPOWERED/EN/0////@EN_LKG_CURR



Test Results (Upper Limit = 100.0 (nA))

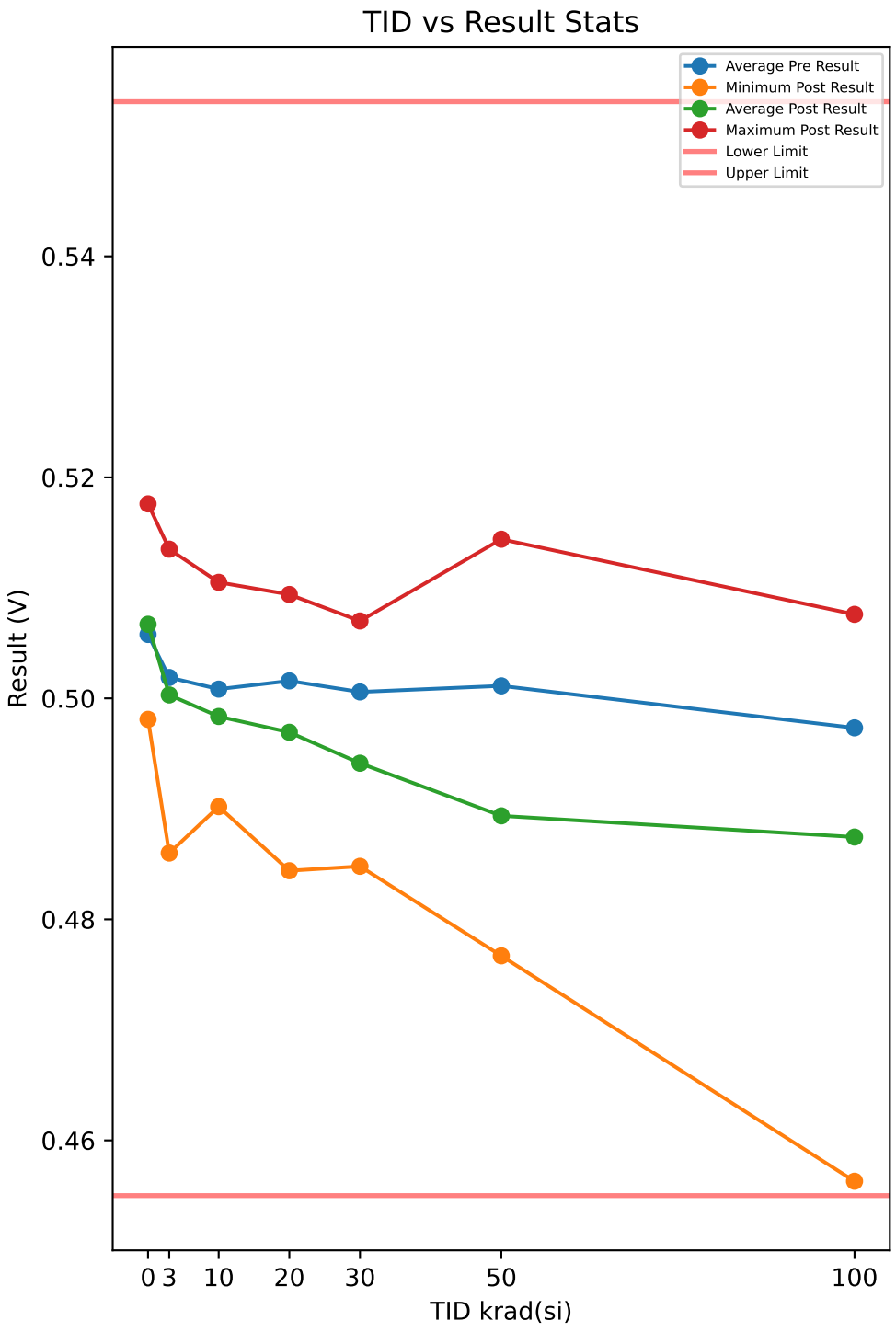
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.1248	0.5872	-0.5376
51	3	Biased	0.5282	1.0849	0.5567
52	3	Biased	1.2592	0.6055	-0.6537
53	3	Biased	1.0399	0.618	-0.4219
54	3	Biased	1.0811	0.4373	-0.6438
55	3	Unbiased	0.6156	0.6242	0.0086
56	3	Unbiased	1.2717	1.1567	-0.115
57	3	Unbiased	1.068	1.0412	-0.0268
58	3	Unbiased	1.156	0.6184	-0.5376
59	3	Unbiased	0.4907	0.5529	0.0622
60	10	Biased	1.3279	1.2504	-0.0775
61	10	Biased	1.1554	0.6522	-0.5032
62	10	Biased	1.1654	0.4748	-0.6906
63	10	Biased	0.5032	0.6211	0.1179
64	10	Biased	1.2936	1.0412	-0.2524
65	10	Unbiased	1.0774	0.4748	-0.6026
66	10	Unbiased	1.1341	1.0131	-0.121
67	10	Unbiased	0.5719	0.4779	-0.094
68	10	Unbiased	1.1781	0.6927	-0.4854
69	10	Unbiased	1.0961	0.6865	-0.4096
100	20	Biased	0.6368	0.94	0.3032
200	20	Biased	1.131	1.093	-0.038
300	20	Biased	0.4689	0.472	0.0031
400	20	Biased	1.1656	1.047	-0.1186
500	20	Biased	1.2491	1.1742	-0.0749
600	20	Unbiased	1.0748	0.3908	-0.684
700	20	Unbiased	0.422	1.1375	0.7155
800	20	Unbiased	1.2062	1.0337	-0.1725
900	20	Unbiased	1.1804	0.4876	-0.6928
1000	20	Unbiased	1.1685	1.1843	0.0158
1100	30	Biased	0.4876	1.118	0.6304
1200	30	Biased	1.1968	0.4595	-0.7373
1300	30	Biased	1.1242	1.2124	0.0882
1400	30	Biased	1.106	1.1149	0.0089
1500	30	Biased	0.5157	0.4845	-0.0312
1600	30	Unbiased	1.1999	1.175	-0.0249
1700	30	Unbiased	1.0431	1.0524	0.0093
1800	30	Unbiased	1.0561	0.4345	-0.6216
1900	30	Unbiased	0.4689	1.1032	0.6343
2000	30	Unbiased	1.1687	1.1117	-0.057
2100	50	Biased-84Hr-Anneal	0.4499	0.4408	-0.0091
2200	50	Biased-84Hr-Anneal	0.4499	1.1219	0.672
2300	50	Biased-84Hr-Anneal	0.6277	1.2031	0.5754
2400	50	Biased-84Hr-Anneal	0.6277	1.1929	0.5652
2500	50	Biased-84Hr-Anneal	0.5899	0.4564	-0.1335
2600	50	Unbiased	1.1373	1.0274	-0.1099
2700	50	Unbiased	0.4782	0.4314	-0.0468
2800	50	Unbiased	1.1906	1.047	-0.1436
2900	50	Unbiased	1.1305	1.0587	-0.0718
3000	50	Unbiased	1.0998	0.3721	-0.7277
4000	100	Biased-168Hr-Anneal	0.897	1.1718	0.2748
4100	100	Biased-168Hr-Anneal	2.4227	1.1117	-1.311
4200	100	Biased-168Hr-Anneal	0.1017	1.0181	0.9164
4300	100	Biased-168Hr-Anneal	2.5723	1.2873	-1.285
4400	100	Biased-168Hr-Anneal	0.9469	0.4845	-0.4624
4500	100	Unbiased-168Hr-Anneal	0.1827	1.1157	0.933
4600	100	Unbiased-168Hr-Anneal	2.4227	0.4626	-1.9601
4700	100	Unbiased-168Hr-Anneal	0.1516	0.4813	0.3297
4800	100	Unbiased-168Hr-Anneal	0.8564	1.1835	0.3271
4900	100	Unbiased-168Hr-Anneal	2.3977	1.0992	-1.2985
9300	0	CORRELATION	1.0618	0.5063	-0.5555
9400	0	CORRELATION	0.7176	1.278	0.5604
9500	0	CORRELATION	0.4	0.9993	0.5993
9600	0	CORRELATION	0.6836	0.5094	-0.1742
9700	0	CORRELATION	0.5427	1.0407	0.498

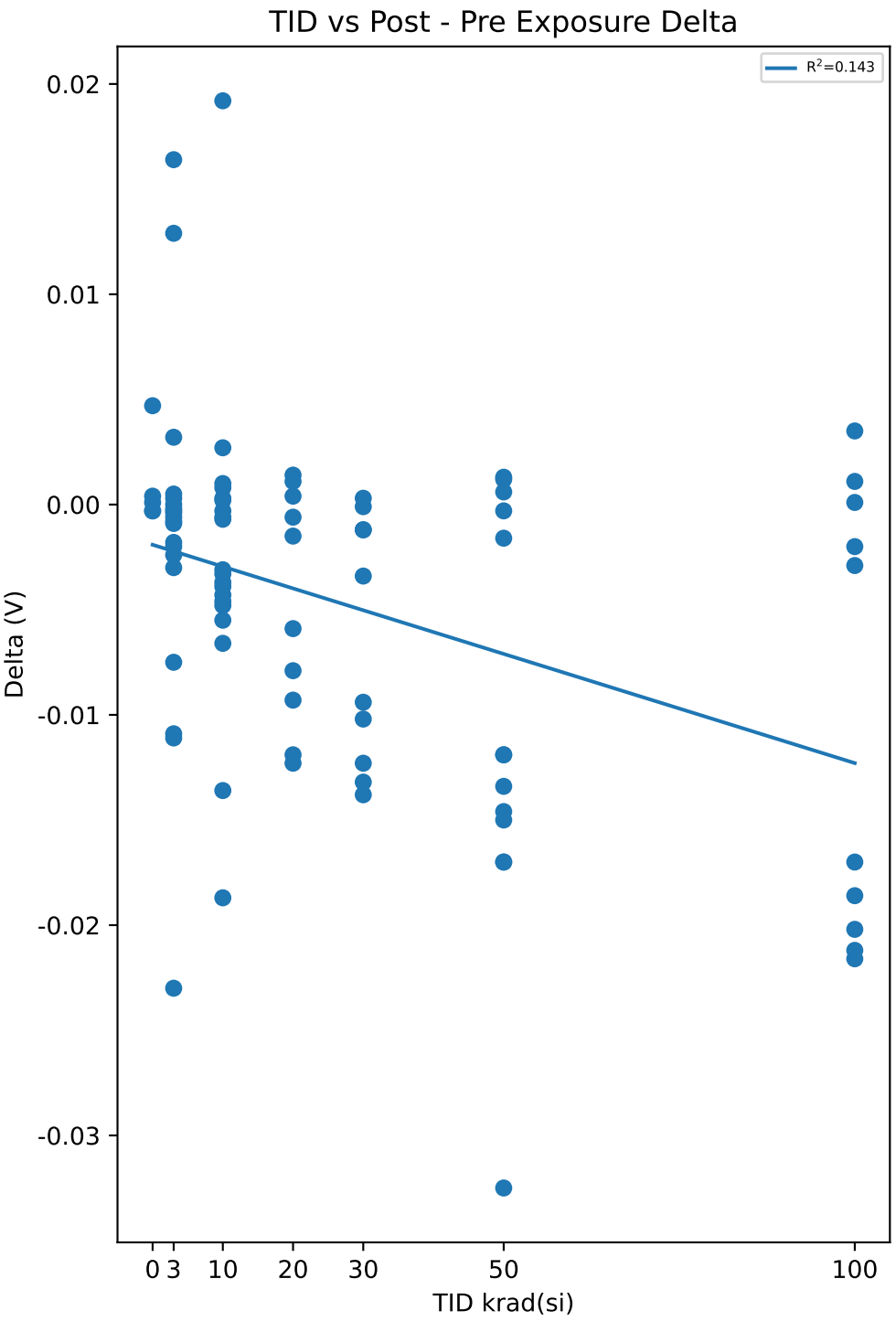


Test Statistics (nA)

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	0.4	0.68114	1.0618	0.24721	0.5063	0.86674	1.278	0.34445	-0.5555	0.1856	0.5993	0.52151
3	0.4907	0.96352	1.2717	0.30003	0.4373	0.73263	1.1567	0.25689	-0.6537	-0.23089	0.5567	0.39335
10	0.5032	1.0503	1.3279	0.28184	0.4748	0.73847	1.2504	0.27123	-0.6906	-0.31184	0.1179	0.26485
20	0.422	0.97033	1.2491	0.32574	0.3908	0.89601	1.1843	0.31678	-0.6928	-0.07432	0.7155	0.41468
30	0.4689	0.9367	1.1999	0.31232	0.4345	0.92661	1.2124	0.32533	-0.7373	-0.01009	0.6343	0.43989
50	0.4499	0.77815	1.1906	0.31848	0.3721	0.83517	1.2031	0.35805	-0.7277	0.05702	0.672	0.4291
100	0.1017	1.2952	2.5723	1.0452	0.4626	0.94157	1.2873	0.3285	-1.9601	-0.3536	0.933	1.0468

Device Test: 15.10 THRESHOLD|FALL/EN/12////@EN_VTH_FALLING





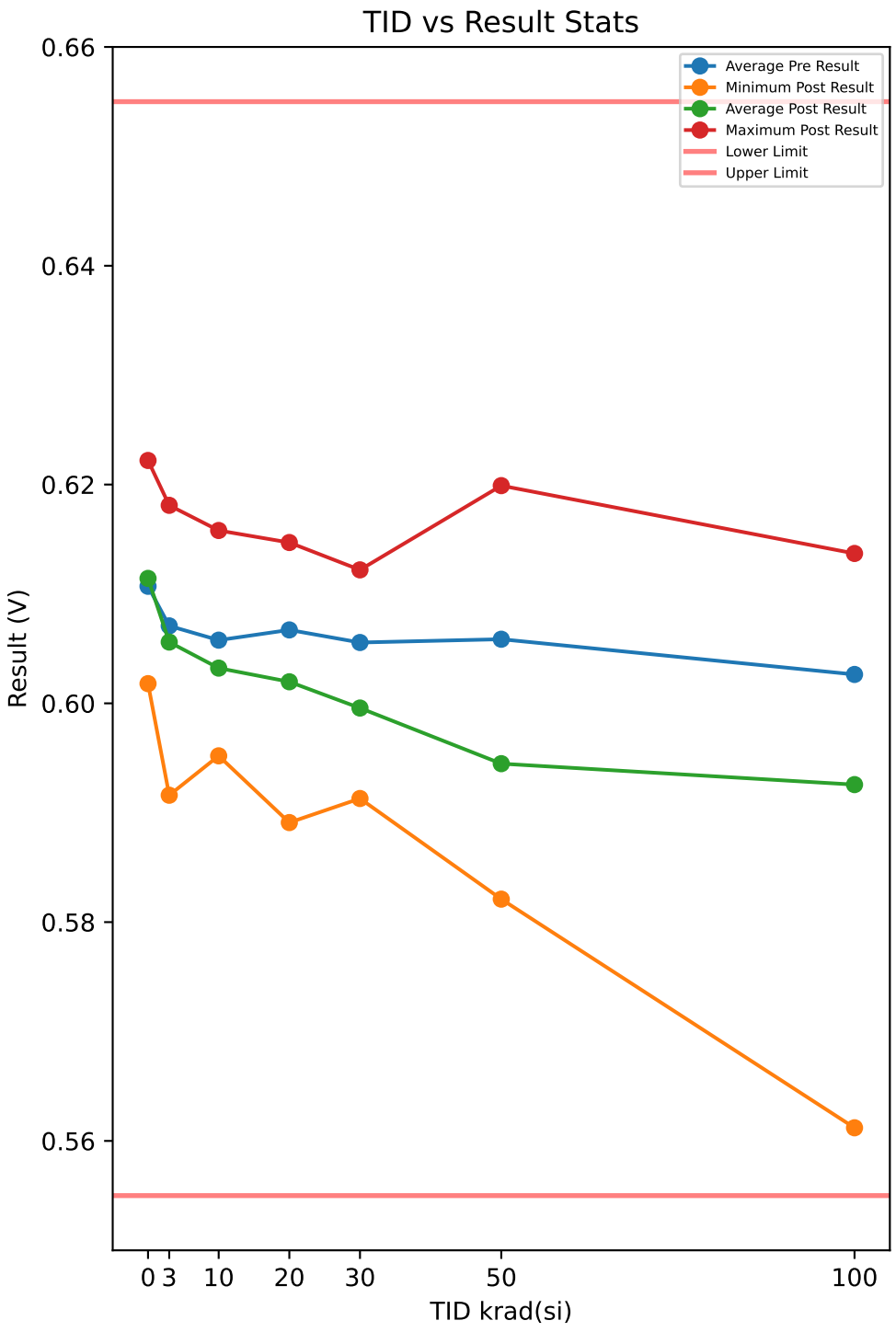
Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

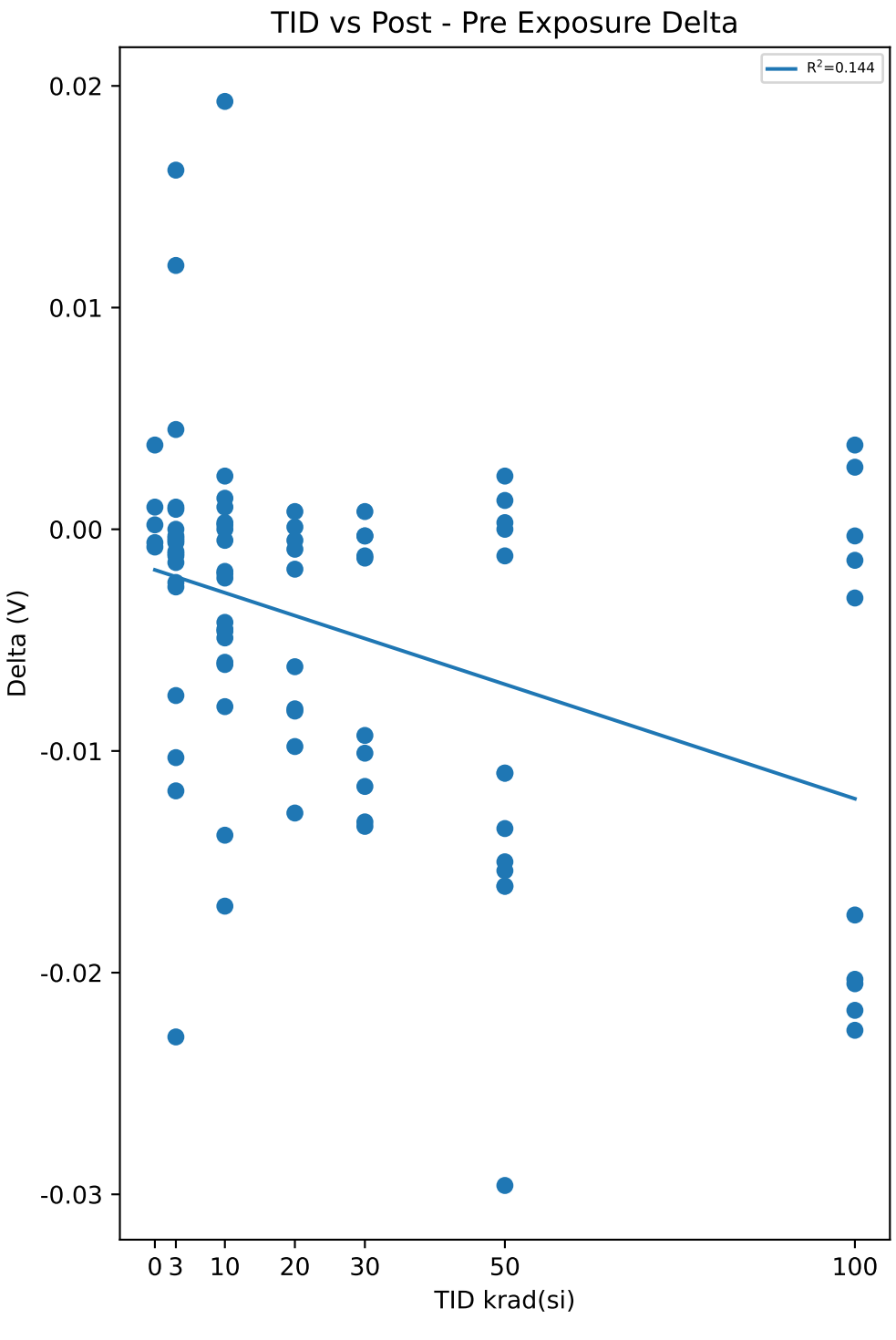
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5035	0.5005	-0.003
51	3	Biased	0.4969	0.486	-0.0109
52	3	Biased	0.5098	0.4868	-0.023
53	3	Biased	0.4913	0.5077	0.0164
54	3	Biased	0.5044	0.4933	-0.0111
55	3	Unbiased	0.5079	0.5055	-0.0024
56	3	Unbiased	0.5098	0.5023	-0.0075
57	3	Unbiased	0.5006	0.5135	0.0129
58	3	Unbiased	0.5031	0.5027	-0.0004
59	3	Unbiased	0.5016	0.5048	0.0032
60	10	Biased	0.4989	0.4982	-0.0007
61	10	Biased	0.4913	0.5105	0.0192
62	10	Biased	0.5097	0.5042	-0.0055
63	10	Biased	0.5054	0.5021	-0.0033
64	10	Biased	0.5026	0.496	-0.0066
65	10	Unbiased	0.4981	0.4989	0.0008
66	10	Unbiased	0.4985	0.4982	-0.0003
67	10	Unbiased	0.4991	0.4945	-0.0046
68	10	Unbiased	0.5089	0.4902	-0.0187
69	10	Unbiased	0.5044	0.4908	-0.0136
100	20	Biased	0.507	0.4947	-0.0123
200	20	Biased	0.5031	0.4938	-0.0093
300	20	Biased	0.4963	0.4844	-0.0119
400	20	Biased	0.5067	0.5008	-0.0059
500	20	Biased	0.5116	0.5037	-0.0079
600	20	Unbiased	0.4972	0.4966	-0.0006
700	20	Unbiased	0.4969	0.4973	0.0004
800	20	Unbiased	0.4933	0.4947	0.0014
900	20	Unbiased	0.5109	0.5094	-0.0015
1000	20	Unbiased	0.4928	0.4939	0.0011
1100	30	Biased	0.5054	0.4916	-0.0138
1200	30	Biased	0.5011	0.4888	-0.0123
1300	30	Biased	0.495	0.4848	-0.0102
1400	30	Biased	0.4963	0.4869	-0.0094
1500	30	Biased	0.5076	0.4944	-0.0132
1600	30	Unbiased	0.4889	0.4855	-0.0034
1700	30	Unbiased	0.5044	0.5047	0.0003
1800	30	Unbiased	0.5044	0.5032	-0.0012
1900	30	Unbiased	0.5082	0.507	-0.0012
2000	30	Unbiased	0.4945	0.4944	-0.0001
2100	50	Biased-84Hr-Anneal	0.4942	0.4823	-0.0119
2200	50	Biased-84Hr-Anneal	0.5092	0.4767	-0.0325
2300	50	Biased-84Hr-Anneal	0.5092	0.4942	-0.015
2400	50	Biased-84Hr-Anneal	0.5055	0.4909	-0.0146
2500	50	Biased-84Hr-Anneal	0.4982	0.4848	-0.0134
2600	50	Unbiased	0.5131	0.5144	0.0013
2700	50	Unbiased	0.5035	0.5047	0.0012
2800	50	Unbiased	0.5011	0.5008	-0.0003
2900	50	Unbiased	0.4888	0.4872	-0.0016
3000	50	Unbiased	0.4885	0.4891	0.0006
4000	100	Biased-168Hr-Anneal	0.5046	0.483	-0.0216
4100	100	Biased-168Hr-Anneal	0.5061	0.4875	-0.0186
4200	100	Biased-168Hr-Anneal	0.4765	0.4563	-0.0202
4300	100	Biased-168Hr-Anneal	0.4867	0.4655	-0.0212
4400	100	Biased-168Hr-Anneal	0.5002	0.4832	-0.017
4500	100	Unbiased-168Hr-Anneal	0.4962	0.4973	0.0011
4600	100	Unbiased-168Hr-Anneal	0.5042	0.5013	-0.0029
4700	100	Unbiased-168Hr-Anneal	0.5096	0.5076	-0.002
4800	100	Unbiased-168Hr-Anneal	0.4959	0.4994	0.0035
4900	100	Unbiased-168Hr-Anneal	0.4933	0.4934	0.0001
9300	0	CORRELATION	0.5019	0.5066	0.0047
9400	0	CORRELATION	0.5179	0.5176	-0.0003
9500	0	CORRELATION	0.498	0.4981	0.0001
9600	0	CORRELATION	0.5082	0.5079	-0.0003
9700	0	CORRELATION	0.5029	0.5033	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	0.498	0.50578	0.5179	0.0076914	0.4981	0.5067	0.5176	0.0071725	-0.0003	0.00092	0.0047	0.0021335
3	0.4913	0.50289	0.5098	0.0057774	0.486	0.50031	0.5135	0.0089556	-0.023	-0.00258	0.0164	0.011649
10	0.4913	0.50169	0.5097	0.0056134	0.4902	0.49836	0.5105	0.0061466	-0.0187	-0.00333	0.0192	0.0099971
20	0.4928	0.50158	0.5116	0.0071475	0.4844	0.49693	0.5094	0.0066873	-0.0123	-0.00465	0.0014	0.0054398
30	0.4889	0.50058	0.5082	0.0065224	0.4848	0.49413	0.507	0.0082218	-0.0138	-0.00645	0.0003	0.0058394
50	0.4885	0.50113	0.5131	0.0086049	0.4767	0.49251	0.5144	0.01133	-0.0325	-0.00862	0.0013	0.010948
100	0.4765	0.49733	0.5096	0.010012	0.4563	0.48745	0.5076	0.016204	-0.0216	-0.00988	0.0035	0.010587

Device Test: 15.12 THRESHOLD|RISE/EN/14////@EN_VTH_RISING





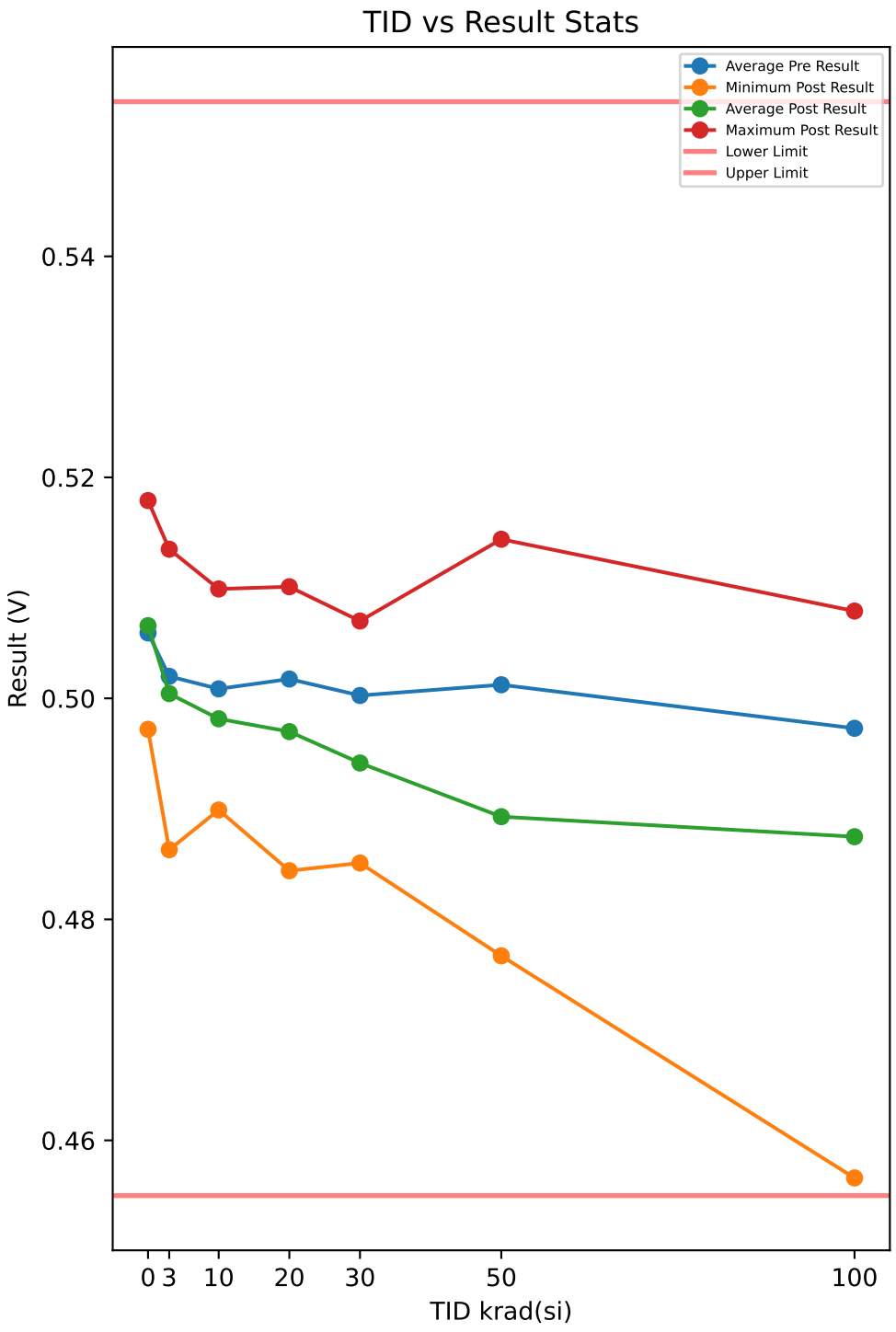
Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

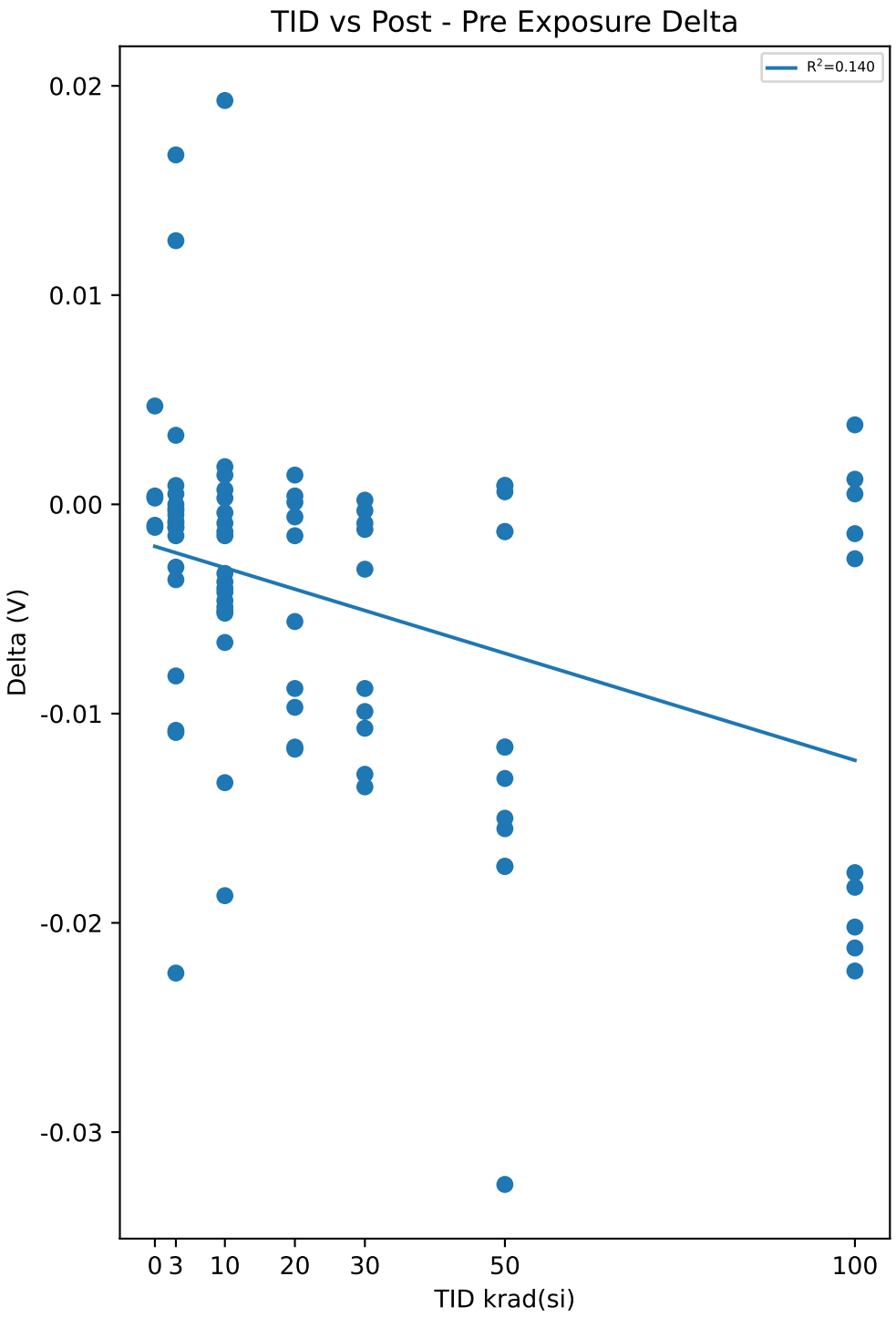
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6081	0.6057	-0.0024
51	3	Biased	0.6019	0.5916	-0.0103
52	3	Biased	0.615	0.5921	-0.0229
53	3	Biased	0.5968	0.613	0.0162
54	3	Biased	0.6097	0.5979	-0.0118
55	3	Unbiased	0.6144	0.6118	-0.0026
56	3	Unbiased	0.6147	0.6072	-0.0075
57	3	Unbiased	0.6062	0.6181	0.0119
58	3	Unbiased	0.6081	0.6076	-0.0005
59	3	Unbiased	0.6065	0.611	0.0045
60	10	Biased	0.605	0.6031	-0.0019
61	10	Biased	0.5965	0.6158	0.0193
62	10	Biased	0.6156	0.6076	-0.008
63	10	Biased	0.6094	0.6074	-0.002
64	10	Biased	0.6069	0.6009	-0.006
65	10	Unbiased	0.6018	0.6032	0.0014
66	10	Unbiased	0.6031	0.6031	0
67	10	Unbiased	0.6044	0.5998	-0.0046
68	10	Unbiased	0.6122	0.5952	-0.017
69	10	Unbiased	0.6099	0.5961	-0.0138
100	20	Biased	0.6107	0.6009	-0.0098
200	20	Biased	0.6075	0.5993	-0.0082
300	20	Biased	0.6019	0.5891	-0.0128
400	20	Biased	0.6122	0.606	-0.0062
500	20	Biased	0.6168	0.6087	-0.0081
600	20	Unbiased	0.6031	0.6022	-0.0009
700	20	Unbiased	0.6015	0.601	-0.0005
800	20	Unbiased	0.5985	0.5993	0.0008
900	20	Unbiased	0.6165	0.6147	-0.0018
1000	20	Unbiased	0.5984	0.5985	0.0001
1100	30	Biased	0.61	0.5968	-0.0132
1200	30	Biased	0.6057	0.5941	-0.0116
1300	30	Biased	0.6006	0.5913	-0.0093
1400	30	Biased	0.6022	0.5921	-0.0101
1500	30	Biased	0.6131	0.5997	-0.0134
1600	30	Unbiased	0.5926	0.5913	-0.0013
1700	30	Unbiased	0.6102	0.6099	-0.0003
1800	30	Unbiased	0.6084	0.6081	-0.0003
1900	30	Unbiased	0.6134	0.6122	-0.0012
2000	30	Unbiased	0.5994	0.6002	0.0008
2100	50	Biased-84Hr-Anneal	0.5982	0.5872	-0.011
2200	50	Biased-84Hr-Anneal	0.6125	0.5829	-0.0296
2300	50	Biased-84Hr-Anneal	0.6147	0.5997	-0.015
2400	50	Biased-84Hr-Anneal	0.611	0.5956	-0.0154
2500	50	Biased-84Hr-Anneal	0.6032	0.5897	-0.0135
2600	50	Unbiased	0.6175	0.6199	0.0024
2700	50	Unbiased	0.6094	0.6094	0
2800	50	Unbiased	0.6069	0.6057	-0.0012
2900	50	Unbiased	0.5918	0.5921	0.0003
3000	50	Unbiased	0.5934	0.5947	0.0013
4000	100	Biased-168Hr-Anneal	0.6102	0.5876	-0.0226
4100	100	Biased-168Hr-Anneal	0.6124	0.5921	-0.0203
4200	100	Biased-168Hr-Anneal	0.5817	0.5612	-0.0205
4300	100	Biased-168Hr-Anneal	0.5927	0.571	-0.0217
4400	100	Biased-168Hr-Anneal	0.6055	0.5881	-0.0174
4500	100	Unbiased-168Hr-Anneal	0.6013	0.601	-0.0003
4600	100	Unbiased-168Hr-Anneal	0.6096	0.6065	-0.0031
4700	100	Unbiased-168Hr-Anneal	0.6151	0.6137	-0.0014
4800	100	Unbiased-168Hr-Anneal	0.6014	0.6052	0.0038
4900	100	Unbiased-168Hr-Anneal	0.5965	0.5993	0.0028
9300	0	CORRELATION	0.6074	0.6112	0.0038
9400	0	CORRELATION	0.6228	0.6222	-0.0006
9500	0	CORRELATION	0.6026	0.6018	-0.0008
9600	0	CORRELATION	0.6132	0.6134	0.0002
9700	0	CORRELATION	0.6075	0.6085	0.001

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	0.6026	0.6107	0.6228	0.0077363	0.6018	0.61142	0.6222	0.0074372	-0.0008	0.00072	0.0038	0.0018633
3	0.5968	0.60814	0.615	0.0058281	0.5916	0.6056	0.6181	0.0089612	-0.0229	-0.00254	0.0162	0.01154
10	0.5965	0.60648	0.6156	0.0055351	0.5952	0.60322	0.6158	0.006028	-0.017	-0.00326	0.0193	0.0098679
20	0.5984	0.60671	0.6168	0.0070246	0.5891	0.60197	0.6147	0.0068123	-0.0128	-0.00474	0.0008	0.004847
30	0.5926	0.60556	0.6134	0.0067449	0.5913	0.59957	0.6122	0.0079553	-0.0134	-0.00599	0.0008	0.0059815
50	0.5918	0.60586	0.6175	0.0089222	0.5829	0.59769	0.6199	0.011234	-0.0296	-0.00817	0.0024	0.010451
100	0.5817	0.60264	0.6151	0.010234	0.5612	0.59257	0.6137	0.016366	-0.0226	-0.01007	0.0038	0.011238

Device Test: 15.13 THRESHOLD|FALL/EN/14////@EN_VTH_FALLING





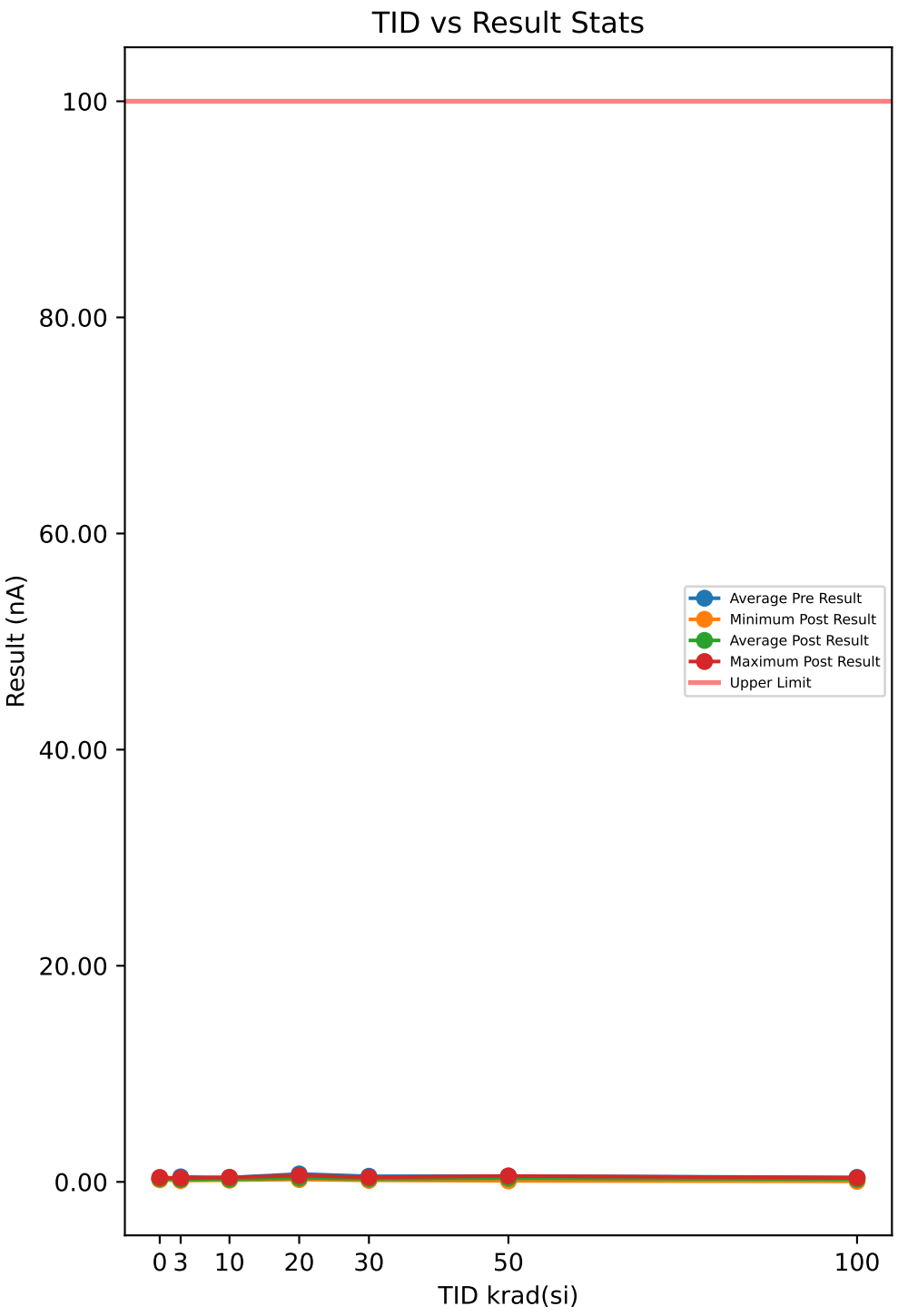
Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

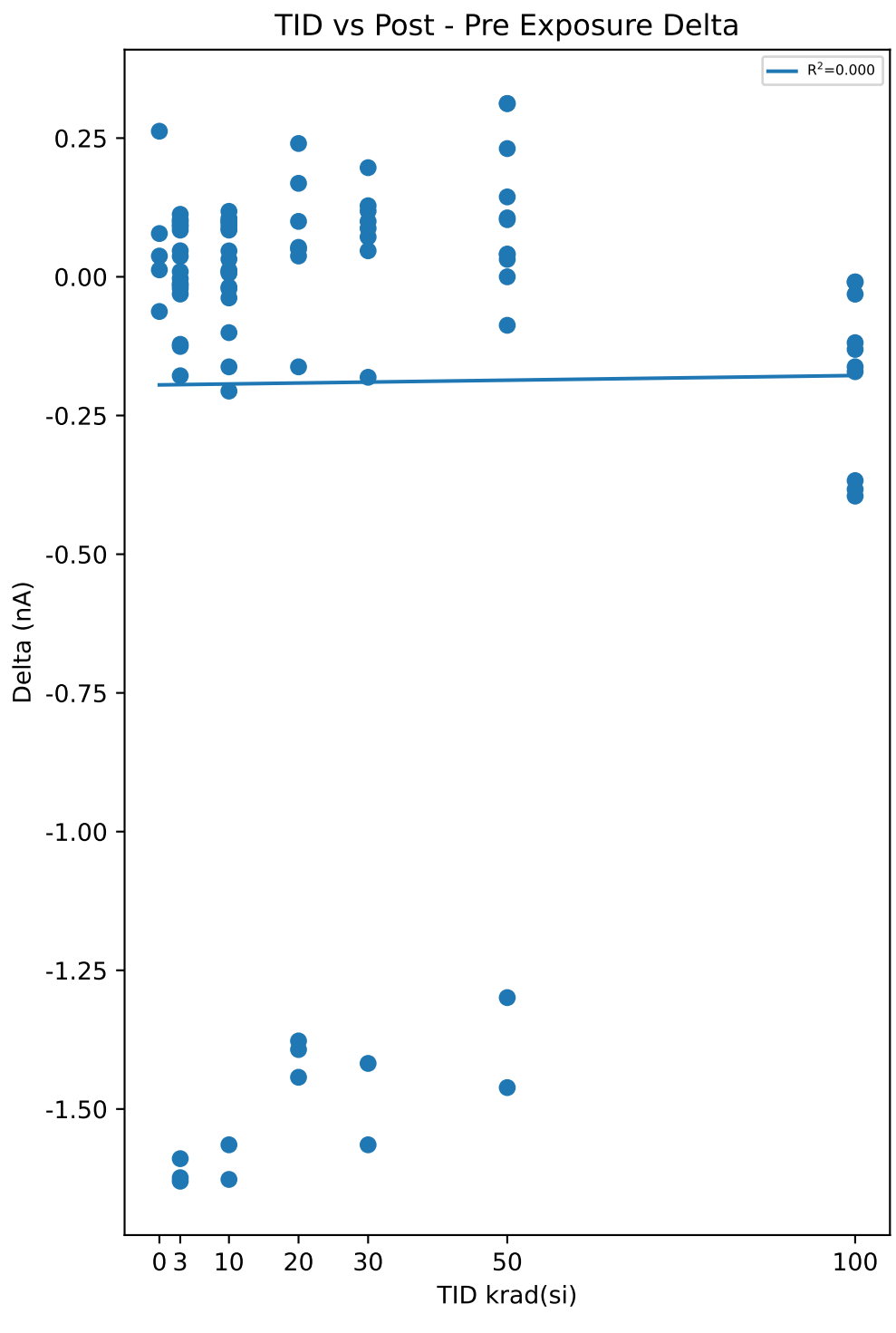
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5035	0.5005	-0.003
51	3	Biased	0.4972	0.4863	-0.0109
52	3	Biased	0.5095	0.4871	-0.0224
53	3	Biased	0.4913	0.508	0.0167
54	3	Biased	0.5044	0.4936	-0.0108
55	3	Unbiased	0.5088	0.5052	-0.0036
56	3	Unbiased	0.5098	0.5016	-0.0082
57	3	Unbiased	0.5009	0.5135	0.0126
58	3	Unbiased	0.5035	0.5033	-0.0002
59	3	Unbiased	0.5019	0.5052	0.0033
60	10	Biased	0.4992	0.4979	-0.0013
61	10	Biased	0.4906	0.5099	0.0193
62	10	Biased	0.5094	0.5042	-0.0052
63	10	Biased	0.5051	0.5018	-0.0033
64	10	Biased	0.5026	0.496	-0.0066
65	10	Unbiased	0.4975	0.4989	0.0014
66	10	Unbiased	0.4988	0.4973	-0.0015
67	10	Unbiased	0.4994	0.4945	-0.0049
68	10	Unbiased	0.5086	0.4899	-0.0187
69	10	Unbiased	0.5044	0.4911	-0.0133
100	20	Biased	0.5064	0.4947	-0.0117
200	20	Biased	0.5031	0.4934	-0.0097
300	20	Biased	0.496	0.4844	-0.0116
400	20	Biased	0.507	0.5014	-0.0056
500	20	Biased	0.5119	0.5031	-0.0088
600	20	Unbiased	0.4978	0.4972	-0.0006
700	20	Unbiased	0.4972	0.4973	0.0001
800	20	Unbiased	0.493	0.4944	0.0014
900	20	Unbiased	0.5116	0.5101	-0.0015
1000	20	Unbiased	0.4935	0.4939	0.0004
1100	30	Biased	0.5044	0.4909	-0.0135
1200	30	Biased	0.4998	0.4891	-0.0107
1300	30	Biased	0.495	0.4851	-0.0099
1400	30	Biased	0.4963	0.4875	-0.0088
1500	30	Biased	0.5076	0.4947	-0.0129
1600	30	Unbiased	0.4886	0.4855	-0.0031
1700	30	Unbiased	0.5047	0.5044	-0.0003
1800	30	Unbiased	0.5041	0.5029	-0.0012
1900	30	Unbiased	0.5079	0.507	-0.0009
2000	30	Unbiased	0.4942	0.4944	0.0002
2100	50	Biased-84Hr-Anneal	0.4942	0.4826	-0.0116
2200	50	Biased-84Hr-Anneal	0.5092	0.4767	-0.0325
2300	50	Biased-84Hr-Anneal	0.5092	0.4942	-0.015
2400	50	Biased-84Hr-Anneal	0.5055	0.49	-0.0155
2500	50	Biased-84Hr-Anneal	0.4982	0.4851	-0.0131
2600	50	Unbiased	0.5135	0.5144	0.0009
2700	50	Unbiased	0.5038	0.5047	0.0009
2800	50	Unbiased	0.5014	0.5001	-0.0013
2900	50	Unbiased	0.4888	0.4875	-0.0013
3000	50	Unbiased	0.4885	0.4891	0.0006
4000	100	Biased-168Hr-Anneal	0.5046	0.4823	-0.0223
4100	100	Biased-168Hr-Anneal	0.5058	0.4875	-0.0183
4200	100	Biased-168Hr-Anneal	0.4768	0.4566	-0.0202
4300	100	Biased-168Hr-Anneal	0.487	0.4658	-0.0212
4400	100	Biased-168Hr-Anneal	0.5005	0.4829	-0.0176
4500	100	Unbiased-168Hr-Anneal	0.4959	0.4964	0.0005
4600	100	Unbiased-168Hr-Anneal	0.5039	0.5013	-0.0026
4700	100	Unbiased-168Hr-Anneal	0.5093	0.5079	-0.0014
4800	100	Unbiased-168Hr-Anneal	0.4962	0.5	0.0038
4900	100	Unbiased-168Hr-Anneal	0.4929	0.4941	0.0012
9300	0	CORRELATION	0.5019	0.5066	0.0047
9400	0	CORRELATION	0.5176	0.5179	0.0003
9500	0	CORRELATION	0.4983	0.4972	-0.0011
9600	0	CORRELATION	0.5089	0.5079	-0.001
9700	0	CORRELATION	0.5029	0.5033	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	0.4983	0.50592	0.5176	0.0075606	0.4972	0.50658	0.5179	0.0075602	-0.0011	0.00066	0.0047	0.002365
3	0.4913	0.50308	0.5098	0.00578	0.4863	0.50043	0.5135	0.0088647	-0.0224	-0.00265	0.0167	0.01157
10	0.4906	0.50156	0.5094	0.0056486	0.4899	0.49815	0.5099	0.0060097	-0.0187	-0.00341	0.0193	0.0099677
20	0.493	0.50175	0.5119	0.0071883	0.4844	0.49699	0.5101	0.006845	-0.0117	-0.00476	0.0014	0.0052968
30	0.4886	0.50026	0.5079	0.0064986	0.4851	0.49415	0.507	0.0080562	-0.0135	-0.00611	0.0002	0.0055505
50	0.4885	0.50123	0.5135	0.0086771	0.4767	0.49244	0.5144	0.011226	-0.0325	-0.00879	0.0009	0.010855
100	0.4768	0.49729	0.5093	0.0098444	0.4566	0.48748	0.5079	0.016192	-0.0223	-0.00981	0.0038	0.010862

Device Test: 15.15 LEAK|POWERED/EN/14////@EN_LKG_CURR





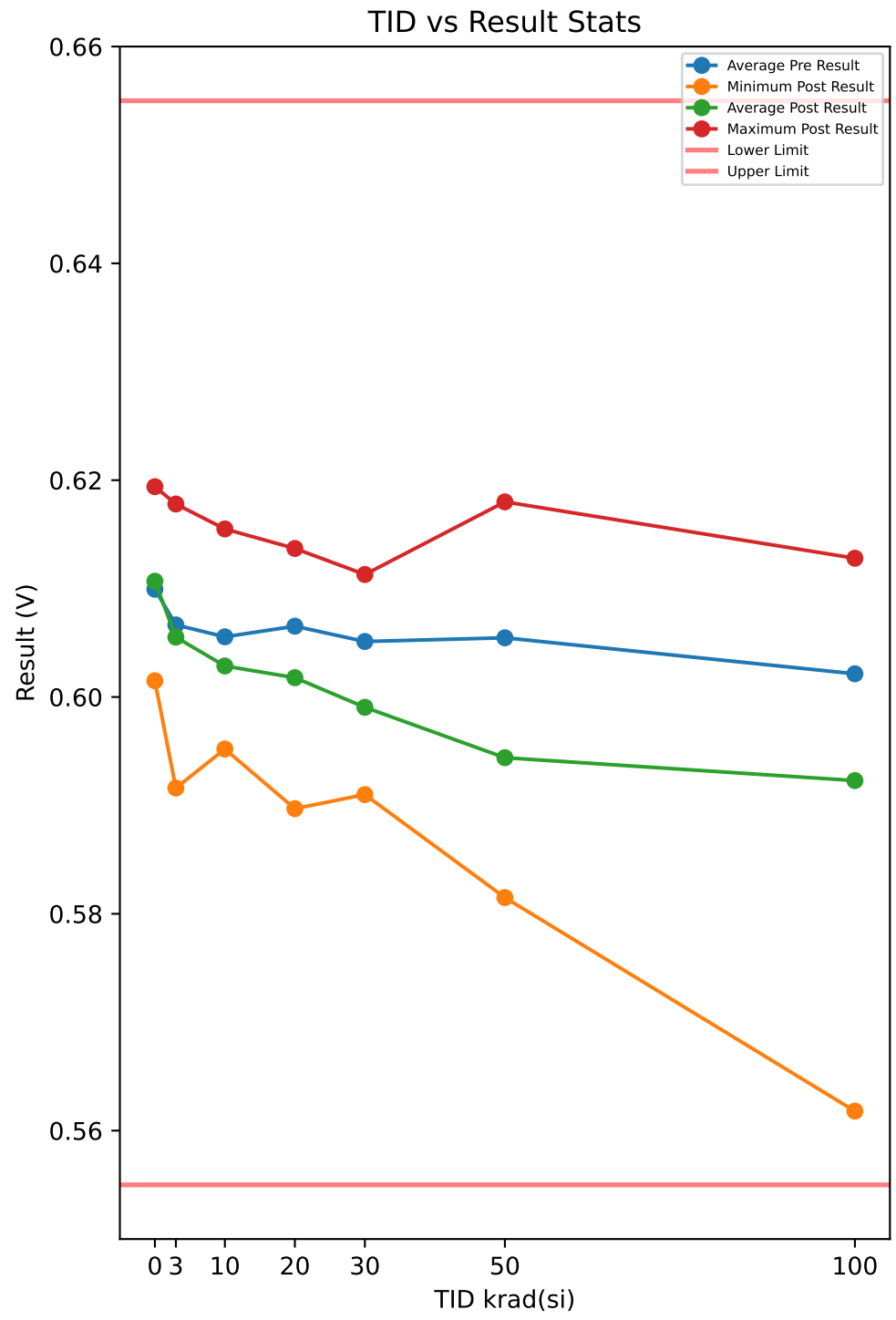
Test Results (Upper Limit = 100.0 (nA))

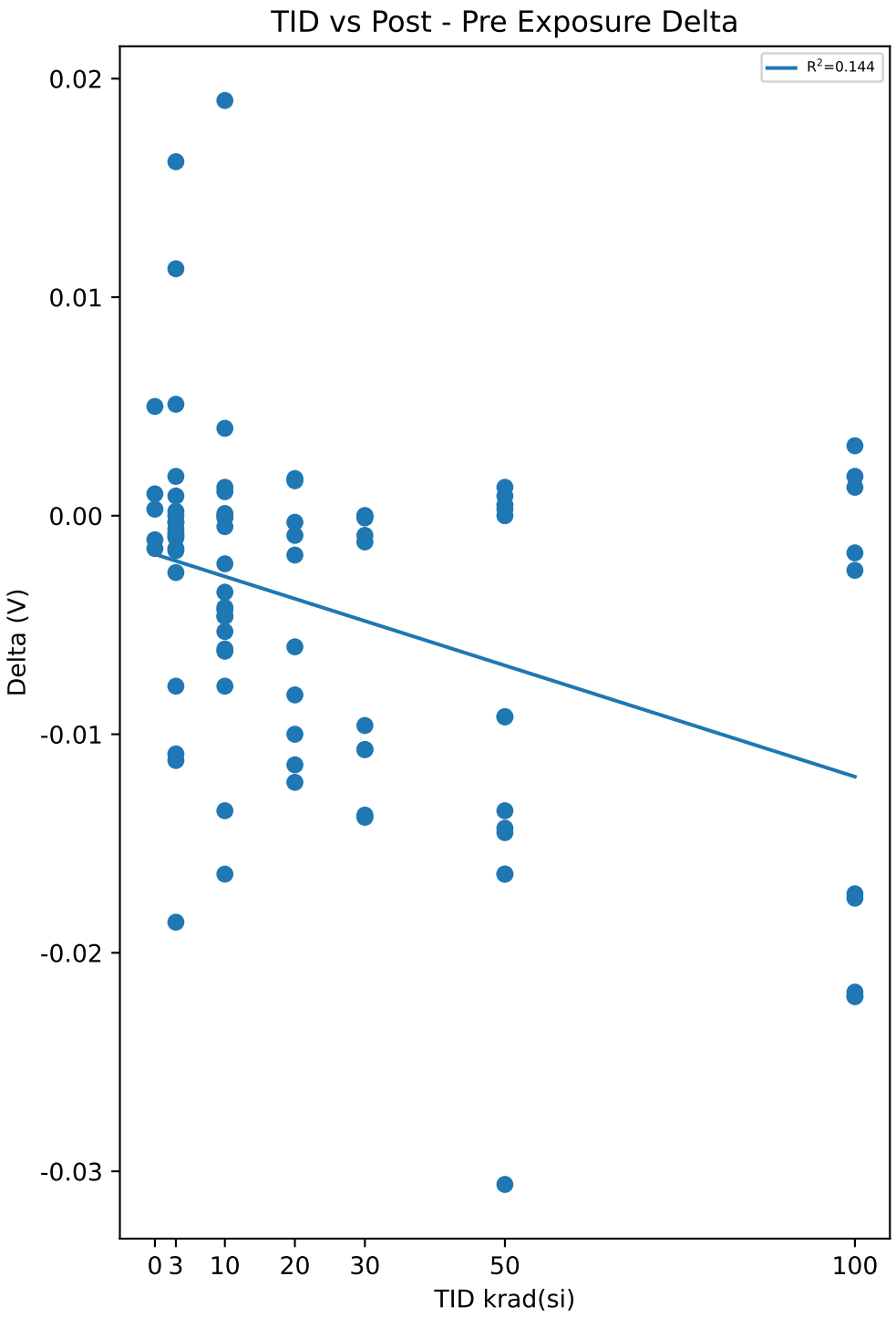
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.7768	0.1873	-1.5895
51	3	Biased	0.2373	0.2248	-0.0125
52	3	Biased	0.2091	0.3083	0.0992
53	3	Biased	0.359	0.1806	-0.1784
54	3	Biased	1.7643	0.1342	-1.6301
55	3	Unbiased	0.3684	0.2429	-0.1255
56	3	Unbiased	0.2372	0.3498	0.1126
57	3	Unbiased	0.2435	0.1218	-0.1217
58	3	Unbiased	1.8736	0.2498	-1.6238
59	3	Unbiased	0.2497	0.2966	0.0469
60	10	Biased	0.4152	0.4216	0.0064
61	10	Biased	0.3059	0.2678	-0.0381
62	10	Biased	1.783	0.2185	-1.5645
63	10	Biased	0.1623	0.2491	0.0868
64	10	Biased	0.2622	0.2436	-0.0186
65	10	Unbiased	0.3652	0.1592	-0.206
66	10	Unbiased	1.8393	0.2124	-1.6269
67	10	Unbiased	0.3184	0.1561	-0.1623
68	10	Unbiased	0.2528	0.2647	0.0119
69	10	Unbiased	0.3715	0.2709	-0.1006
100	20	Biased	0.1967	0.437	0.2403
200	20	Biased	1.8112	0.3684	-1.4428
300	20	Biased	0.2591	0.2966	0.0375
400	20	Biased	0.256	0.4245	0.1685
500	20	Biased	0.487	0.5869	0.0999
600	20	Unbiased	1.7175	0.3247	-1.3928
700	20	Unbiased	0.2529	0.3028	0.0499
800	20	Unbiased	0.2528	0.3059	0.0531
900	20	Unbiased	0.3746	0.2123	-0.1623
1000	20	Unbiased	1.7425	0.3652	-1.3773
1100	30	Biased	0.1155	0.3122	0.1967
1200	30	Biased	0.0531	0.1405	0.0874
1300	30	Biased	0.4558	0.2747	-0.1811
1400	30	Biased	1.808	0.3902	-1.4178
1500	30	Biased	0.1093	0.2279	0.1186
1600	30	Unbiased	0.1654	0.2653	0.0999
1700	30	Unbiased	0.3777	0.4246	0.0469
1800	30	Unbiased	1.7643	0.1998	-1.5645
1900	30	Unbiased	0.1842	0.256	0.0718
2000	30	Unbiased	0.181	0.3091	0.1281
2100	50	Biased-84Hr-Anneal	0.1903	0.231	0.0407
2200	50	Biased-84Hr-Anneal	0.1903	0.2965	0.1062
2300	50	Biased-84Hr-Anneal	0.3431	0.3746	0.0315
2400	50	Biased-84Hr-Anneal	0.4023	0.5463	0.144
2500	50	Biased-84Hr-Anneal	0.1811	0.0937	-0.0874
2600	50	Unbiased	1.73	0.4308	-1.2992
2700	50	Unbiased	0.1061	0.3372	0.2311
2800	50	Unbiased	0.1654	0.2684	0.103
2900	50	Unbiased	0.3746	0.3746	0
3000	50	Unbiased	1.6987	0.2373	-1.4614
4000	100	Biased-168Hr-Anneal	0.2966	0.1779	-0.1187
4100	100	Biased-168Hr-Anneal	0.7668	0.3715	-0.3953
4200	100	Biased-168Hr-Anneal	0.2589	0.2497	-0.0092
4300	100	Biased-168Hr-Anneal	0.6795	0.2965	-0.383
4400	100	Biased-168Hr-Anneal	0.2841	0.2747	-0.0094
4500	100	Unbiased-168Hr-Anneal	0.2121	0.0499	-0.1622
4600	100	Unbiased-168Hr-Anneal	0.6514	0.2841	-0.3673
4700	100	Unbiased-168Hr-Anneal	0.2495	0.1186	-0.1309
4800	100	Unbiased-168Hr-Anneal	0.3091	0.2778	-0.0313
4900	100	Unbiased-168Hr-Anneal	0.4457	0.2747	-0.171
9300	0	CORRELATION	0.3247	0.2622	-0.0625
9400	0	CORRELATION	0.3372	0.3746	0.0374
9500	0	CORRELATION	0.1497	0.4121	0.2624
9600	0	CORRELATION	0.2217	0.2997	0.078
9700	0	CORRELATION	0.1842	0.1967	0.0125

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	0.1497	0.2435	0.3372	0.08391	0.1967	0.30906	0.4121	0.086344	-0.0625	0.06556	0.2624	0.12136
3	0.2091	0.73189	1.8736	0.74282	0.1218	0.22961	0.3498	0.075019	-1.6301	-0.50228	0.1126	0.77351
10	0.1623	0.60758	1.8393	0.63843	0.1561	0.24639	0.4216	0.074383	-1.6269	-0.36119	0.0868	0.65645
20	0.1967	0.73503	1.8112	0.71029	0.2123	0.36243	0.5869	0.10268	-1.4428	-0.3726	0.2403	0.71952
30	0.0531	0.52143	1.808	0.67785	0.1405	0.28003	0.4246	0.084567	-1.5645	-0.2414	0.1967	0.66683
50	0.1061	0.53819	1.73	0.62767	0.0937	0.31904	0.5463	0.12424	-1.4614	-0.21915	0.2311	0.61911
100	0.2121	0.41537	0.7668	0.20705	0.0499	0.23754	0.3715	0.094887	-0.3953	-0.17783	-0.0092	0.15259

Device Test: 15.3 THRESHOLD|RISE/EN/4.5////@EN_VTH_RISING





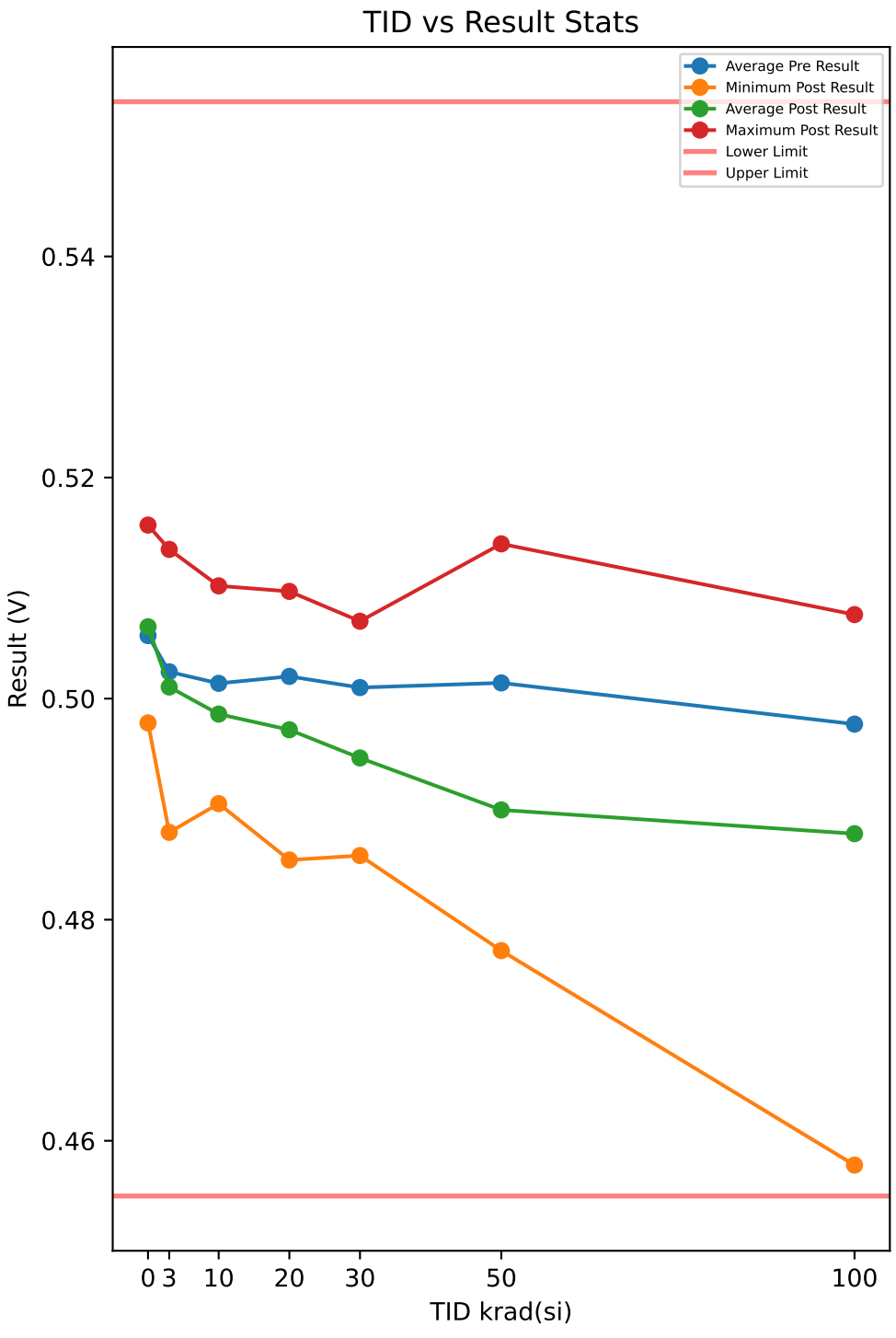
Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

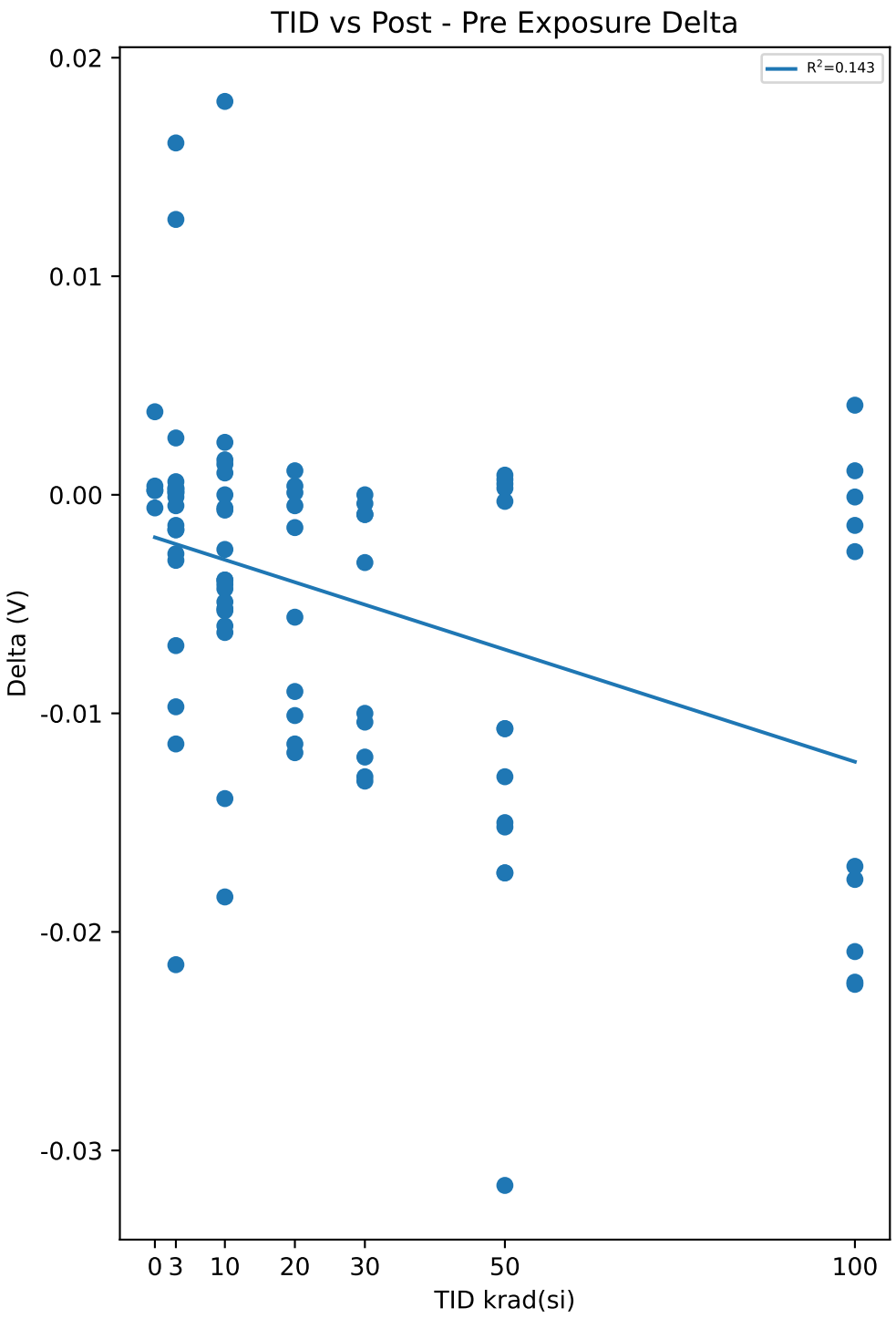
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6075	0.606	-0.0015
51	3	Biased	0.6028	0.5916	-0.0112
52	3	Biased	0.6116	0.593	-0.0186
53	3	Biased	0.5968	0.613	0.0162
54	3	Biased	0.6091	0.5982	-0.0109
55	3	Unbiased	0.6131	0.6105	-0.0026
56	3	Unbiased	0.6144	0.6066	-0.0078
57	3	Unbiased	0.6065	0.6178	0.0113
58	3	Unbiased	0.6072	0.6072	0
59	3	Unbiased	0.6062	0.6113	0.0051
60	10	Biased	0.6054	0.6019	-0.0035
61	10	Biased	0.5965	0.6155	0.019
62	10	Biased	0.615	0.6088	-0.0062
63	10	Biased	0.6103	0.6061	-0.0042
64	10	Biased	0.6069	0.5991	-0.0078
65	10	Unbiased	0.6015	0.6026	0.0011
66	10	Unbiased	0.6025	0.6038	0.0013
67	10	Unbiased	0.6044	0.5998	-0.0046
68	10	Unbiased	0.6116	0.5952	-0.0164
69	10	Unbiased	0.6093	0.5958	-0.0135
100	20	Biased	0.6116	0.6002	-0.0114
200	20	Biased	0.6078	0.5996	-0.0082
300	20	Biased	0.6019	0.5897	-0.0122
400	20	Biased	0.611	0.605	-0.006
500	20	Biased	0.6165	0.6065	-0.01
600	20	Unbiased	0.6031	0.6022	-0.0009
700	20	Unbiased	0.6019	0.6016	-0.0003
800	20	Unbiased	0.5979	0.5996	0.0017
900	20	Unbiased	0.6155	0.6137	-0.0018
1000	20	Unbiased	0.5981	0.5997	0.0016
1100	30	Biased	0.6103	0.5965	-0.0138
1200	30	Biased	0.6038	0.5931	-0.0107
1300	30	Biased	0.6006	0.591	-0.0096
1400	30	Biased	0.6025	0.5918	-0.0107
1500	30	Biased	0.6131	0.5994	-0.0137
1600	30	Unbiased	0.5922	0.5913	-0.0009
1700	30	Unbiased	0.6099	0.6099	0
1800	30	Unbiased	0.6072	0.6072	0
1900	30	Unbiased	0.6125	0.6113	-0.0012
2000	30	Unbiased	0.5991	0.599	-0.0001
2100	50	Biased-84Hr-Anneal	0.5979	0.5887	-0.0092
2200	50	Biased-84Hr-Anneal	0.6125	0.5819	-0.0306
2300	50	Biased-84Hr-Anneal	0.6122	0.5979	-0.0143
2400	50	Biased-84Hr-Anneal	0.6097	0.5952	-0.0145
2500	50	Biased-84Hr-Anneal	0.6029	0.5894	-0.0135
2600	50	Unbiased	0.6175	0.618	0.0005
2700	50	Unbiased	0.6081	0.6094	0.0013
2800	50	Unbiased	0.6057	0.606	0.0003
2900	50	Unbiased	0.594	0.5949	0.0009
3000	50	Unbiased	0.5941	0.5941	0
4000	100	Biased-168Hr-Anneal	0.6092	0.5872	-0.022
4100	100	Biased-168Hr-Anneal	0.609	0.5915	-0.0175
4200	100	Biased-168Hr-Anneal	0.5836	0.5618	-0.0218
4300	100	Biased-168Hr-Anneal	0.5921	0.5701	-0.022
4400	100	Biased-168Hr-Anneal	0.6042	0.5869	-0.0173
4500	100	Unbiased-168Hr-Anneal	0.5998	0.6016	0.0018
4600	100	Unbiased-168Hr-Anneal	0.609	0.6065	-0.0025
4700	100	Unbiased-168Hr-Anneal	0.6145	0.6128	-0.0017
4800	100	Unbiased-168Hr-Anneal	0.602	0.6052	0.0032
4900	100	Unbiased-168Hr-Anneal	0.598	0.5993	0.0013
9300	0	CORRELATION	0.6065	0.6115	0.005
9400	0	CORRELATION	0.6209	0.6194	-0.0015
9500	0	CORRELATION	0.6026	0.6015	-0.0011
9600	0	CORRELATION	0.6125	0.6128	0.0003
9700	0	CORRELATION	0.6072	0.6082	0.001

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	0.6026	0.60994	0.6209	0.0070692	0.6015	0.61068	0.6194	0.0065503	-0.0015	0.00074	0.005	0.002589
3	0.5968	0.60752	0.6144	0.0051391	0.5916	0.60552	0.6178	0.0086492	-0.0186	-0.002	0.0162	0.01073
10	0.5965	0.60634	0.615	0.0054474	0.5952	0.60286	0.6155	0.0061413	-0.0164	-0.00348	0.019	0.0096858
20	0.5979	0.60653	0.6165	0.0068907	0.5897	0.60178	0.6137	0.006121	-0.0122	-0.00475	0.0017	0.0054366
30	0.5922	0.60512	0.6131	0.0067029	0.591	0.59905	0.6113	0.0078434	-0.0138	-0.00607	0	0.0060835
50	0.594	0.60546	0.6175	0.0080901	0.5819	0.59755	0.618	0.010772	-0.0306	-0.00791	0.0013	0.010515
100	0.5836	0.60214	0.6145	0.0092385	0.5618	0.59229	0.6128	0.016339	-0.022	-0.00985	0.0032	0.01107

Device Test: 15.4 THRESHOLD|FALL/EN/4.5////@EN_VTH_FALLING





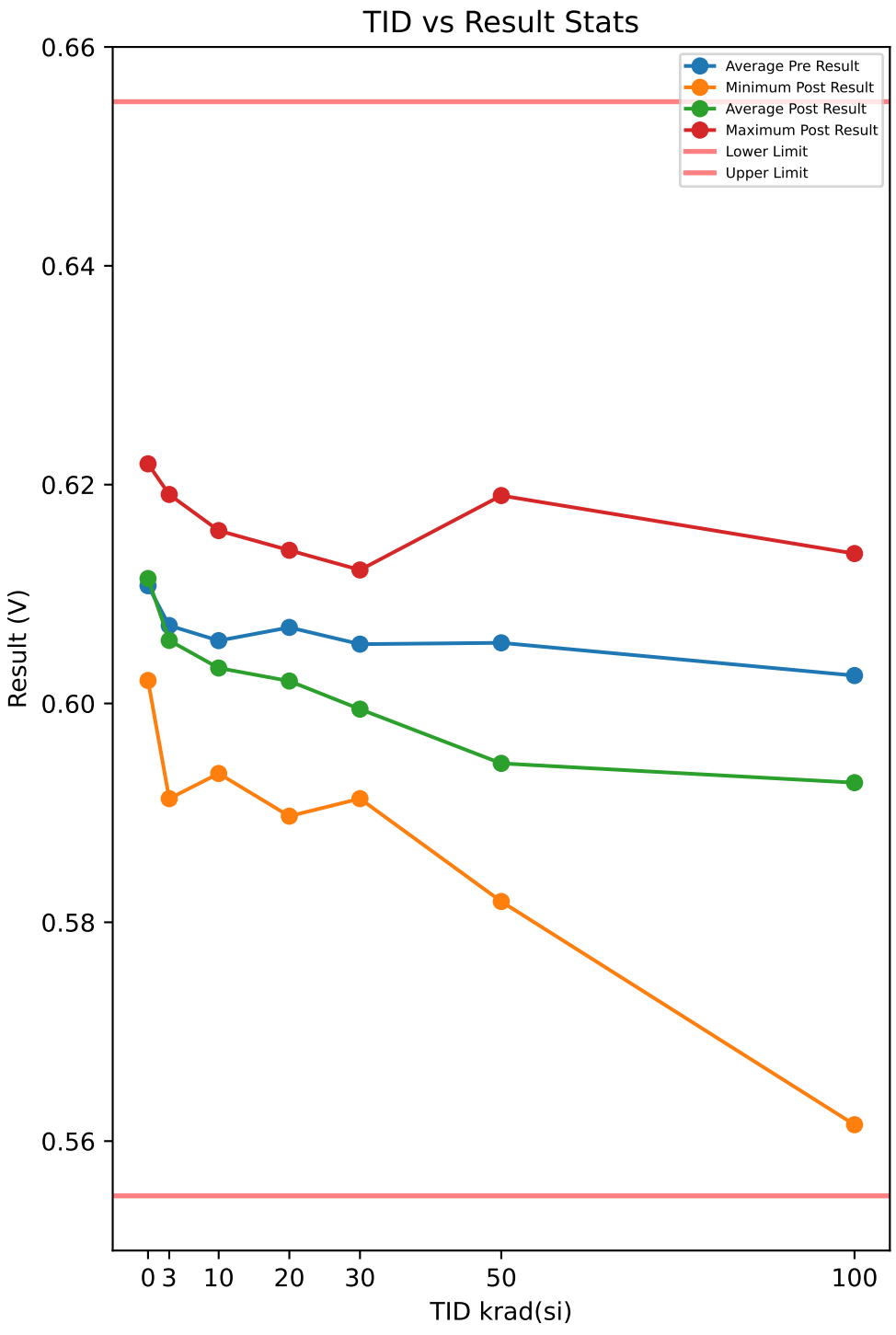
Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

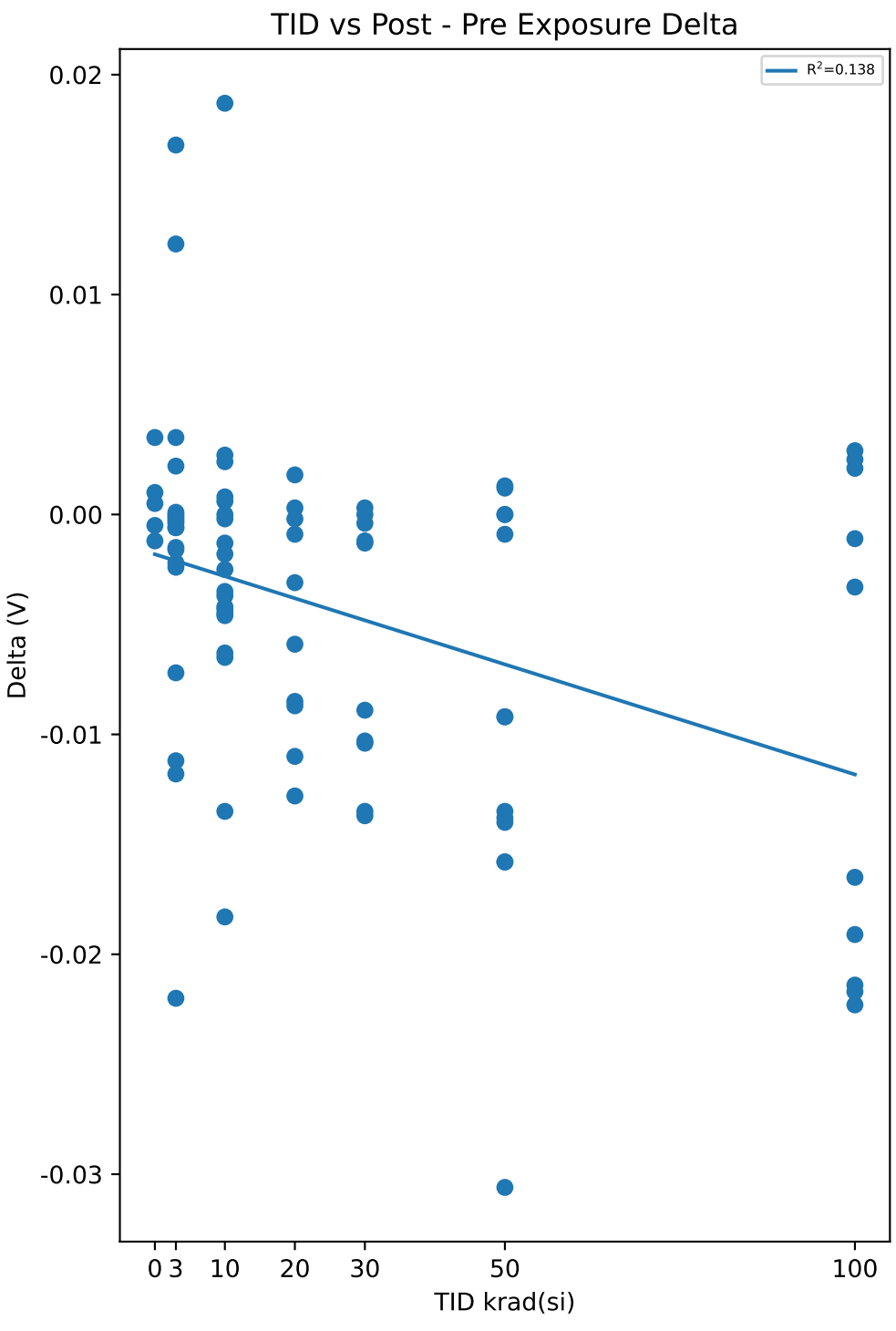
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5041	0.5014	-0.0027
51	3	Biased	0.4976	0.4879	-0.0097
52	3	Biased	0.5098	0.4883	-0.0215
53	3	Biased	0.4922	0.5083	0.0161
54	3	Biased	0.5053	0.4939	-0.0114
55	3	Unbiased	0.5085	0.5055	-0.003
56	3	Unbiased	0.5095	0.5026	-0.0069
57	3	Unbiased	0.5009	0.5135	0.0126
58	3	Unbiased	0.5035	0.5036	0.0001
59	3	Unbiased	0.5029	0.5055	0.0026
60	10	Biased	0.4998	0.4973	-0.0025
61	10	Biased	0.4922	0.5102	0.018
62	10	Biased	0.5094	0.5042	-0.0052
63	10	Biased	0.5057	0.5018	-0.0039
64	10	Biased	0.5026	0.4966	-0.006
65	10	Unbiased	0.4984	0.4998	0.0014
66	10	Unbiased	0.4978	0.4994	0.0016
67	10	Unbiased	0.5001	0.4948	-0.0053
68	10	Unbiased	0.5089	0.4905	-0.0184
69	10	Unbiased	0.5053	0.4914	-0.0139
100	20	Biased	0.507	0.4956	-0.0114
200	20	Biased	0.5035	0.4934	-0.0101
300	20	Biased	0.4972	0.4854	-0.0118
400	20	Biased	0.5064	0.5008	-0.0056
500	20	Biased	0.5112	0.5022	-0.009
600	20	Unbiased	0.4981	0.4976	-0.0005
700	20	Unbiased	0.4972	0.4976	0.0004
800	20	Unbiased	0.4939	0.495	0.0011
900	20	Unbiased	0.5112	0.5097	-0.0015
1000	20	Unbiased	0.4944	0.4945	0.0001
1100	30	Biased	0.5054	0.4925	-0.0129
1200	30	Biased	0.5011	0.4891	-0.012
1300	30	Biased	0.4962	0.4858	-0.0104
1400	30	Biased	0.4978	0.4878	-0.01
1500	30	Biased	0.5085	0.4954	-0.0131
1600	30	Unbiased	0.4895	0.4864	-0.0031
1700	30	Unbiased	0.505	0.505	0
1800	30	Unbiased	0.5035	0.5026	-0.0009
1900	30	Unbiased	0.5079	0.507	-0.0009
2000	30	Unbiased	0.4951	0.4947	-0.0004
2100	50	Biased-84Hr-Anneal	0.4945	0.4838	-0.0107
2200	50	Biased-84Hr-Anneal	0.5089	0.4773	-0.0316
2300	50	Biased-84Hr-Anneal	0.5089	0.4939	-0.015
2400	50	Biased-84Hr-Anneal	0.5055	0.4903	-0.0152
2500	50	Biased-84Hr-Anneal	0.4986	0.4857	-0.0129
2600	50	Unbiased	0.5135	0.514	0.0005
2700	50	Unbiased	0.5038	0.5047	0.0009
2800	50	Unbiased	0.5014	0.5011	-0.0003
2900	50	Unbiased	0.4897	0.49	0.0003
3000	50	Unbiased	0.4894	0.4901	0.0007
4000	100	Biased-168Hr-Anneal	0.5046	0.4823	-0.0223
4100	100	Biased-168Hr-Anneal	0.5048	0.4878	-0.017
4200	100	Biased-168Hr-Anneal	0.4787	0.4578	-0.0209
4300	100	Biased-168Hr-Anneal	0.4879	0.4655	-0.0224
4400	100	Biased-168Hr-Anneal	0.5002	0.4826	-0.0176
4500	100	Unbiased-168Hr-Anneal	0.4962	0.4961	-0.0001
4600	100	Unbiased-168Hr-Anneal	0.5048	0.5022	-0.0026
4700	100	Unbiased-168Hr-Anneal	0.509	0.5076	-0.0014
4800	100	Unbiased-168Hr-Anneal	0.4968	0.5009	0.0041
4900	100	Unbiased-168Hr-Anneal	0.4939	0.495	0.0011
9300	0	CORRELATION	0.5031	0.5069	0.0038
9400	0	CORRELATION	0.5163	0.5157	-0.0006
9500	0	CORRELATION	0.4976	0.4978	0.0002
9600	0	CORRELATION	0.5086	0.5088	0.0002
9700	0	CORRELATION	0.5029	0.5033	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	0.4976	0.5057	0.5163	0.0070884	0.4978	0.5065	0.5157	0.0066336	-0.0006	0.0008	0.0038	0.0017205
3	0.4922	0.50343	0.5098	0.0055162	0.4879	0.50105	0.5135	0.0084512	-0.0215	-0.00238	0.0161	0.011147
10	0.4922	0.50202	0.5094	0.0053995	0.4905	0.4986	0.5102	0.0059238	-0.0184	-0.00342	0.018	0.009752
20	0.4939	0.50201	0.5112	0.0066712	0.4854	0.49718	0.5097	0.0063499	-0.0118	-0.00483	0.0011	0.0053141
30	0.4895	0.501	0.5085	0.0061987	0.4858	0.49463	0.507	0.0078326	-0.0131	-0.00637	0	0.005733
50	0.4894	0.50142	0.5135	0.0082853	0.4773	0.49309	0.514	0.010818	-0.0316	-0.00833	0.0009	0.010767
100	0.4787	0.49769	0.509	0.0091707	0.4578	0.48778	0.5076	0.016146	-0.0224	-0.00991	0.0041	0.010951

Device Test: 15.6 THRESHOLD|RISE/EN/5////@EN_VTH_RISING





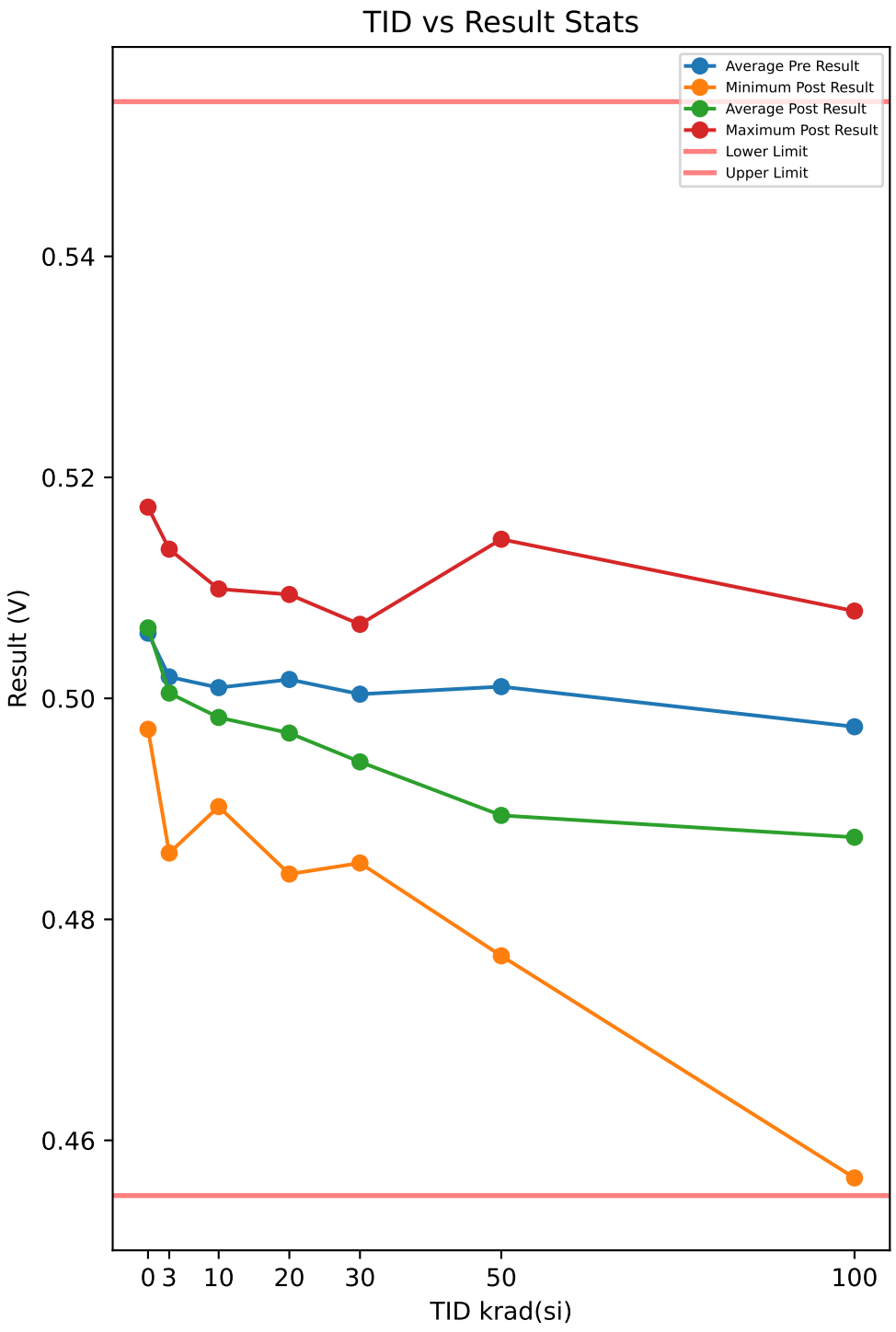
Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

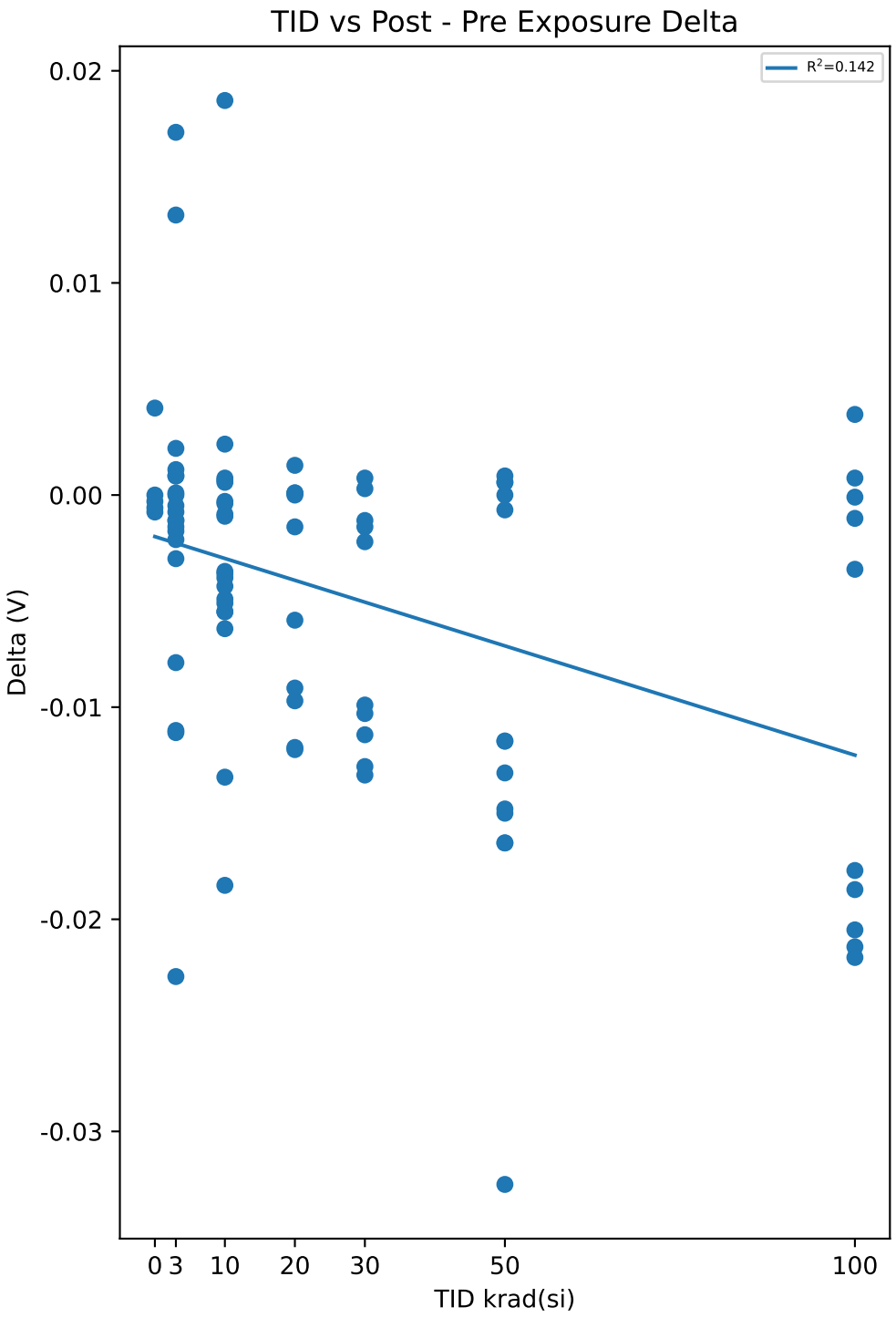
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6084	0.606	-0.0024
51	3	Biased	0.6025	0.5913	-0.0112
52	3	Biased	0.6144	0.5924	-0.022
53	3	Biased	0.5965	0.6133	0.0168
54	3	Biased	0.6097	0.5979	-0.0118
55	3	Unbiased	0.614	0.6118	-0.0022
56	3	Unbiased	0.6144	0.6072	-0.0072
57	3	Unbiased	0.6068	0.6191	0.0123
58	3	Unbiased	0.6078	0.6076	-0.0002
59	3	Unbiased	0.6075	0.611	0.0035
60	10	Biased	0.6044	0.6031	-0.0013
61	10	Biased	0.5971	0.6158	0.0187
62	10	Biased	0.6153	0.6088	-0.0065
63	10	Biased	0.6106	0.6071	-0.0035
64	10	Biased	0.6072	0.6009	-0.0063
65	10	Unbiased	0.6021	0.6029	0.0008
66	10	Unbiased	0.6034	0.6034	0
67	10	Unbiased	0.6044	0.6007	-0.0037
68	10	Unbiased	0.6119	0.5936	-0.0183
69	10	Unbiased	0.6096	0.5961	-0.0135
100	20	Biased	0.6119	0.6009	-0.011
200	20	Biased	0.6075	0.599	-0.0085
300	20	Biased	0.6025	0.5897	-0.0128
400	20	Biased	0.6119	0.606	-0.0059
500	20	Biased	0.6174	0.6087	-0.0087
600	20	Unbiased	0.6031	0.6022	-0.0009
700	20	Unbiased	0.6022	0.6025	0.0003
800	20	Unbiased	0.5975	0.5993	0.0018
900	20	Unbiased	0.6171	0.614	-0.0031
1000	20	Unbiased	0.5984	0.5982	-0.0002
1100	30	Biased	0.6103	0.5968	-0.0135
1200	30	Biased	0.6047	0.5944	-0.0103
1300	30	Biased	0.6002	0.5913	-0.0089
1400	30	Biased	0.6022	0.5918	-0.0104
1500	30	Biased	0.6134	0.5997	-0.0137
1600	30	Unbiased	0.5926	0.5913	-0.0013
1700	30	Unbiased	0.6096	0.6099	0.0003
1800	30	Unbiased	0.6081	0.6081	0
1900	30	Unbiased	0.6134	0.6122	-0.0012
2000	30	Unbiased	0.5997	0.5993	-0.0004
2100	50	Biased-84Hr-Anneal	0.5979	0.5887	-0.0092
2200	50	Biased-84Hr-Anneal	0.6125	0.5819	-0.0306
2300	50	Biased-84Hr-Anneal	0.6125	0.5985	-0.014
2400	50	Biased-84Hr-Anneal	0.61	0.5962	-0.0138
2500	50	Biased-84Hr-Anneal	0.6032	0.5897	-0.0135
2600	50	Unbiased	0.6178	0.619	0.0012
2700	50	Unbiased	0.6094	0.6094	0
2800	50	Unbiased	0.6066	0.6057	-0.0009
2900	50	Unbiased	0.5921	0.5921	0
3000	50	Unbiased	0.5934	0.5947	0.0013
4000	100	Biased-168Hr-Anneal	0.6099	0.5876	-0.0223
4100	100	Biased-168Hr-Anneal	0.6112	0.5921	-0.0191
4200	100	Biased-168Hr-Anneal	0.5829	0.5615	-0.0214
4300	100	Biased-168Hr-Anneal	0.593	0.5713	-0.0217
4400	100	Biased-168Hr-Anneal	0.6052	0.5887	-0.0165
4500	100	Unbiased-168Hr-Anneal	0.6001	0.6022	0.0021
4600	100	Unbiased-168Hr-Anneal	0.6102	0.6069	-0.0033
4700	100	Unbiased-168Hr-Anneal	0.6148	0.6137	-0.0011
4800	100	Unbiased-168Hr-Anneal	0.6014	0.6043	0.0029
4900	100	Unbiased-168Hr-Anneal	0.5968	0.5993	0.0025
9300	0	CORRELATION	0.6077	0.6112	0.0035
9400	0	CORRELATION	0.6231	0.6219	-0.0012
9500	0	CORRELATION	0.6026	0.6021	-0.0005
9600	0	CORRELATION	0.6129	0.6134	0.0005
9700	0	CORRELATION	0.6075	0.6085	0.001

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	0.6026	0.61076	0.6231	0.0078012	0.6021	0.61142	0.6219	0.0072317	-0.0012	0.00066	0.0035	0.0018036
3	0.5965	0.6082	0.6144	0.0056253	0.5913	0.60576	0.6191	0.0091507	-0.022	-0.00244	0.0168	0.011535
10	0.5971	0.6066	0.6153	0.0053703	0.5936	0.60324	0.6158	0.0063207	-0.0183	-0.00336	0.0187	0.0097988
20	0.5975	0.60695	0.6174	0.0073115	0.5897	0.60205	0.614	0.0065692	-0.0128	-0.0049	0.0018	0.0051777
30	0.5926	0.60542	0.6134	0.006758	0.5913	0.59948	0.6122	0.0079621	-0.0137	-0.00594	0.0003	0.0059062
50	0.5921	0.60554	0.6178	0.00866	0.5819	0.59759	0.619	0.011017	-0.0306	-0.00795	0.0013	0.010337
100	0.5829	0.60255	0.6148	0.0097875	0.5615	0.59276	0.6137	0.016278	-0.0223	-0.00979	0.0029	0.011235

Device Test: 15.7 THRESHOLD|FALL/EN/5////@EN_VTH_FALLING





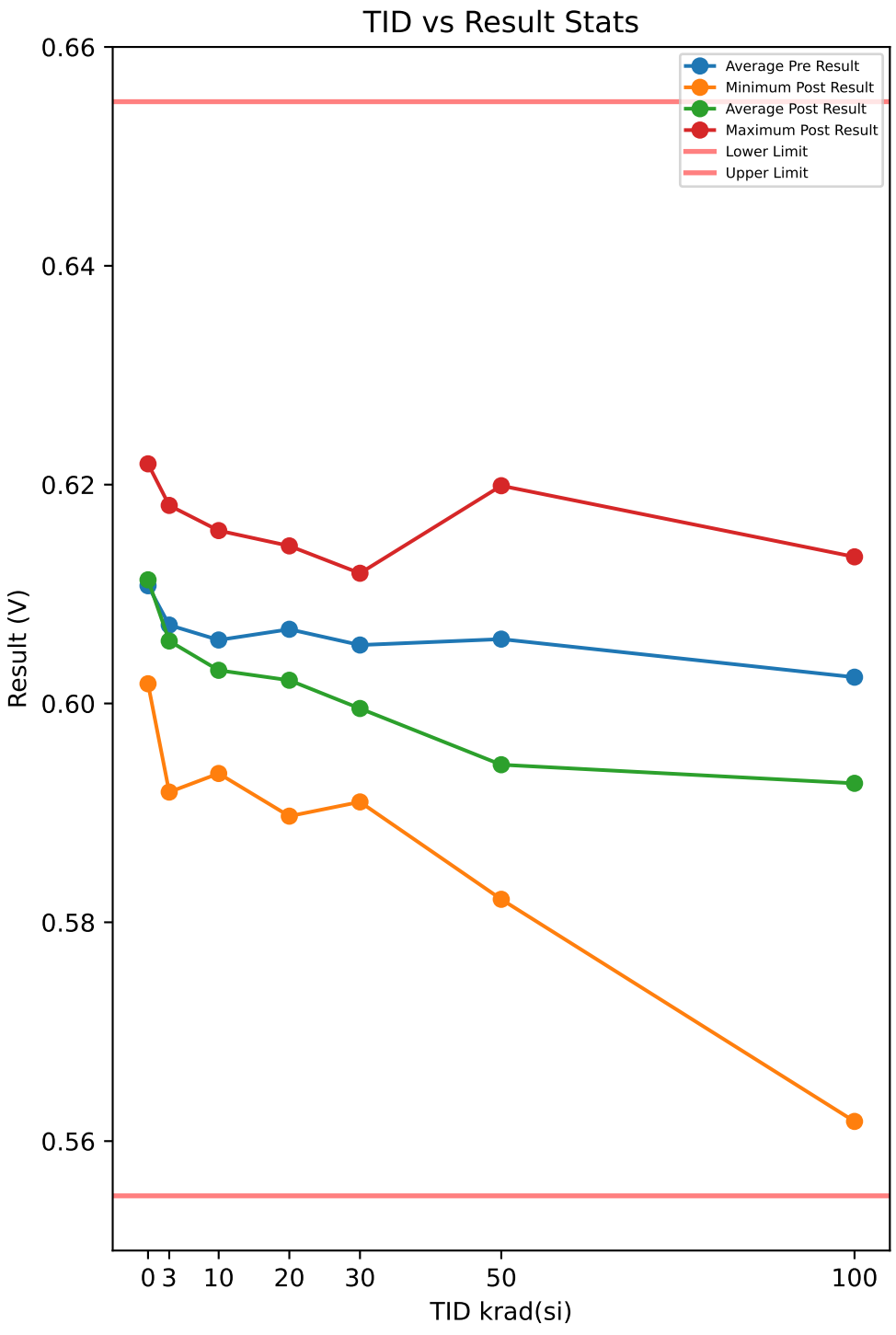
Test Results (Lower Limit = 0.455, Upper Limit = 0.554 (V))

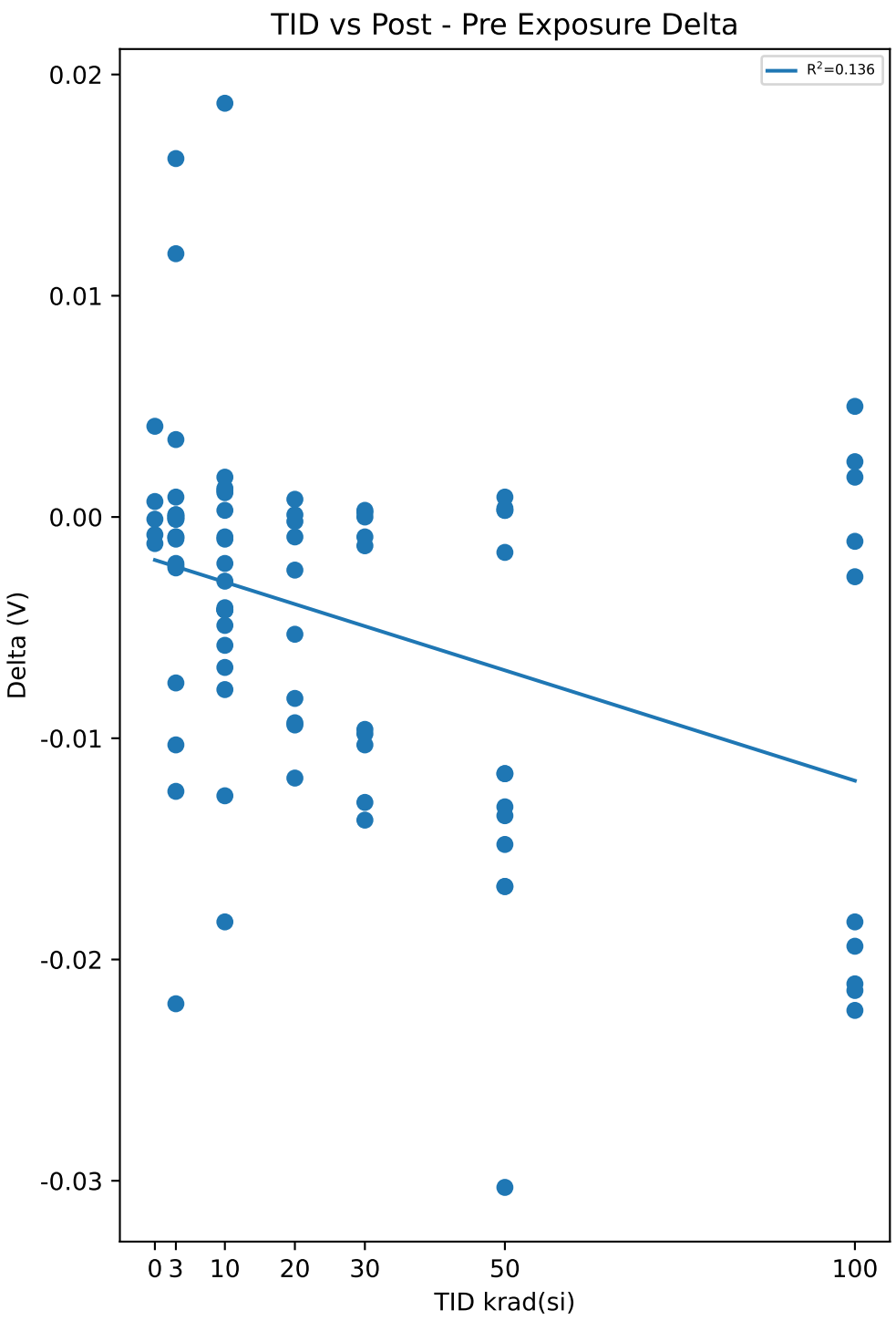
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5035	0.5005	-0.003
51	3	Biased	0.4972	0.486	-0.0112
52	3	Biased	0.5098	0.4871	-0.0227
53	3	Biased	0.4909	0.508	0.0171
54	3	Biased	0.5044	0.4933	-0.0111
55	3	Unbiased	0.5082	0.5061	-0.0021
56	3	Unbiased	0.5098	0.5019	-0.0079
57	3	Unbiased	0.5003	0.5135	0.0132
58	3	Unbiased	0.5035	0.5036	0.0001
59	3	Unbiased	0.5026	0.5048	0.0022
60	10	Biased	0.4989	0.4979	-0.001
61	10	Biased	0.4913	0.5099	0.0186
62	10	Biased	0.51	0.5045	-0.0055
63	10	Biased	0.5054	0.5018	-0.0036
64	10	Biased	0.5023	0.496	-0.0063
65	10	Unbiased	0.4981	0.4989	0.0008
66	10	Unbiased	0.4985	0.4982	-0.0003
67	10	Unbiased	0.4997	0.4942	-0.0055
68	10	Unbiased	0.5086	0.4902	-0.0184
69	10	Unbiased	0.5044	0.4911	-0.0133
100	20	Biased	0.5076	0.4956	-0.012
200	20	Biased	0.5028	0.4931	-0.0097
300	20	Biased	0.496	0.4841	-0.0119
400	20	Biased	0.507	0.5011	-0.0059
500	20	Biased	0.5122	0.5031	-0.0091
600	20	Unbiased	0.4972	0.4972	0
700	20	Unbiased	0.4969	0.497	0.0001
800	20	Unbiased	0.493	0.4944	0.0014
900	20	Unbiased	0.5109	0.5094	-0.0015
1000	20	Unbiased	0.4935	0.4936	0.0001
1100	30	Biased	0.5044	0.4916	-0.0128
1200	30	Biased	0.5004	0.4891	-0.0113
1300	30	Biased	0.495	0.4851	-0.0099
1400	30	Biased	0.4972	0.4869	-0.0103
1500	30	Biased	0.5079	0.4947	-0.0132
1600	30	Unbiased	0.4883	0.4861	-0.0022
1700	30	Unbiased	0.5044	0.5047	0.0003
1800	30	Unbiased	0.5041	0.5029	-0.0012
1900	30	Unbiased	0.5082	0.5067	-0.0015
2000	30	Unbiased	0.4939	0.4947	0.0008
2100	50	Biased-84Hr-Anneal	0.4939	0.4823	-0.0116
2200	50	Biased-84Hr-Anneal	0.5092	0.4767	-0.0325
2300	50	Biased-84Hr-Anneal	0.5092	0.4942	-0.015
2400	50	Biased-84Hr-Anneal	0.5051	0.4903	-0.0148
2500	50	Biased-84Hr-Anneal	0.4979	0.4848	-0.0131
2600	50	Unbiased	0.5138	0.5144	0.0006
2700	50	Unbiased	0.5035	0.5044	0.0009
2800	50	Unbiased	0.5011	0.5004	-0.0007
2900	50	Unbiased	0.4884	0.4884	0
3000	50	Unbiased	0.4885	0.4891	0.0006
4000	100	Biased-168Hr-Anneal	0.5046	0.4833	-0.0213
4100	100	Biased-168Hr-Anneal	0.5055	0.4869	-0.0186
4200	100	Biased-168Hr-Anneal	0.4771	0.4566	-0.0205
4300	100	Biased-168Hr-Anneal	0.487	0.4652	-0.0218
4400	100	Biased-168Hr-Anneal	0.5009	0.4832	-0.0177
4500	100	Unbiased-168Hr-Anneal	0.4962	0.4961	-0.0001
4600	100	Unbiased-168Hr-Anneal	0.5048	0.5013	-0.0035
4700	100	Unbiased-168Hr-Anneal	0.509	0.5079	-0.0011
4800	100	Unbiased-168Hr-Anneal	0.4959	0.4997	0.0038
4900	100	Unbiased-168Hr-Anneal	0.4933	0.4941	0.0008
9300	0	CORRELATION	0.5022	0.5063	0.0041
9400	0	CORRELATION	0.5179	0.5173	-0.0006
9500	0	CORRELATION	0.498	0.4972	-0.0008
9600	0	CORRELATION	0.5082	0.5082	0
9700	0	CORRELATION	0.5032	0.5029	-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	0.498	0.5059	0.5179	0.0076269	0.4972	0.50638	0.5173	0.0073984	-0.0008	0.00048	0.0041	0.0020462
3	0.4909	0.50302	0.5098	0.005864	0.486	0.50048	0.5135	0.0089958	-0.0227	-0.00254	0.0171	0.01177
10	0.4913	0.50172	0.51	0.005588	0.4902	0.49827	0.5099	0.0060122	-0.0184	-0.00345	0.0186	0.0097597
20	0.493	0.50171	0.5122	0.0072855	0.4841	0.49686	0.5094	0.0067456	-0.012	-0.00485	0.0014	0.0054398
30	0.4883	0.50038	0.5082	0.0065899	0.4851	0.49425	0.5067	0.0080079	-0.0132	-0.00613	0.0008	0.0058058
50	0.4884	0.50106	0.5138	0.0087964	0.4767	0.4925	0.5144	0.011219	-0.0325	-0.00856	0.0009	0.010933
100	0.4771	0.49743	0.509	0.0097739	0.4566	0.48743	0.5079	0.016198	-0.0218	-0.01	0.0038	0.010734

Device Test: 15.9 THRESHOLD|RISE/EN/12////@EN_VTH_RISING





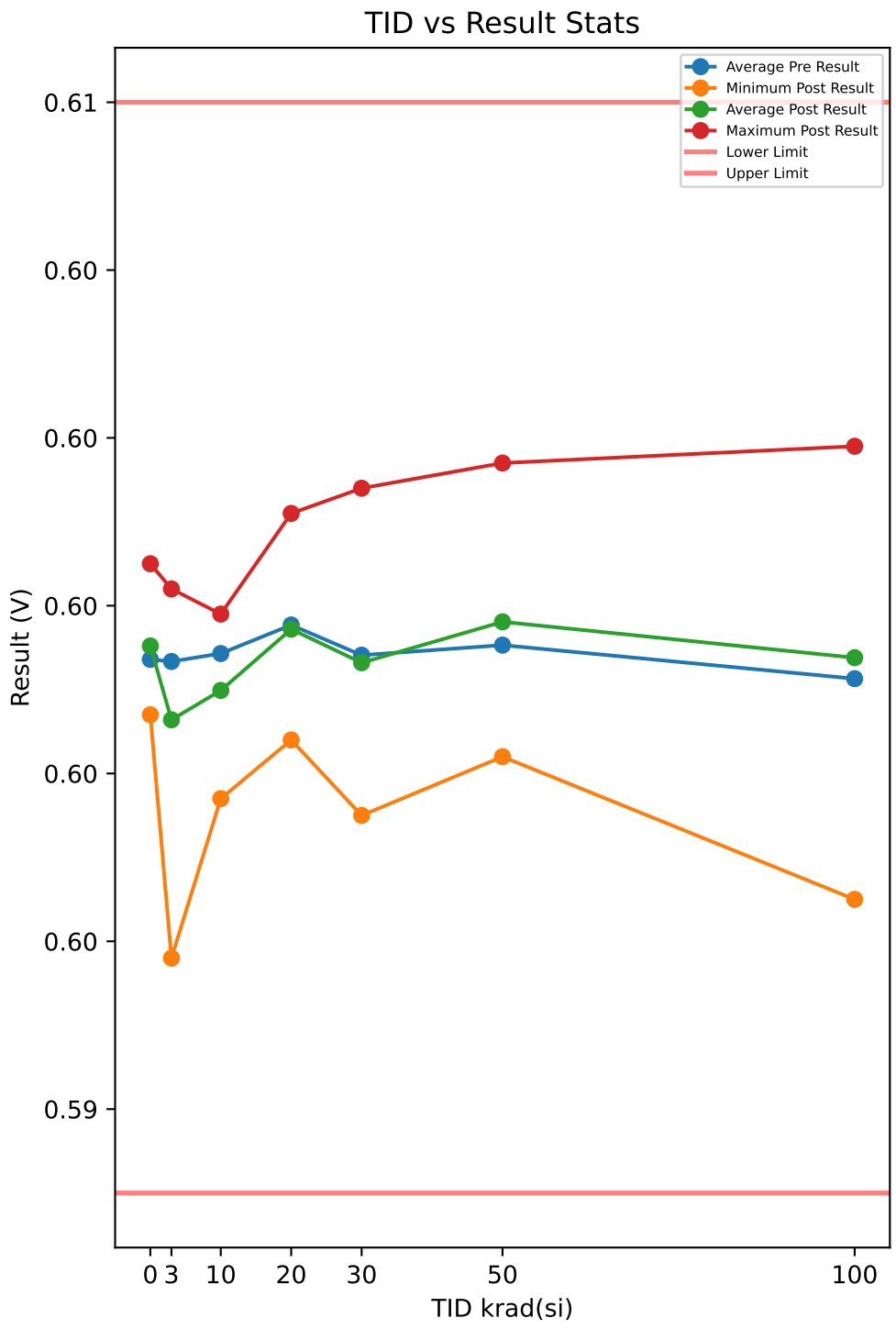
Test Results (Lower Limit = 0.555, Upper Limit = 0.655 (V))

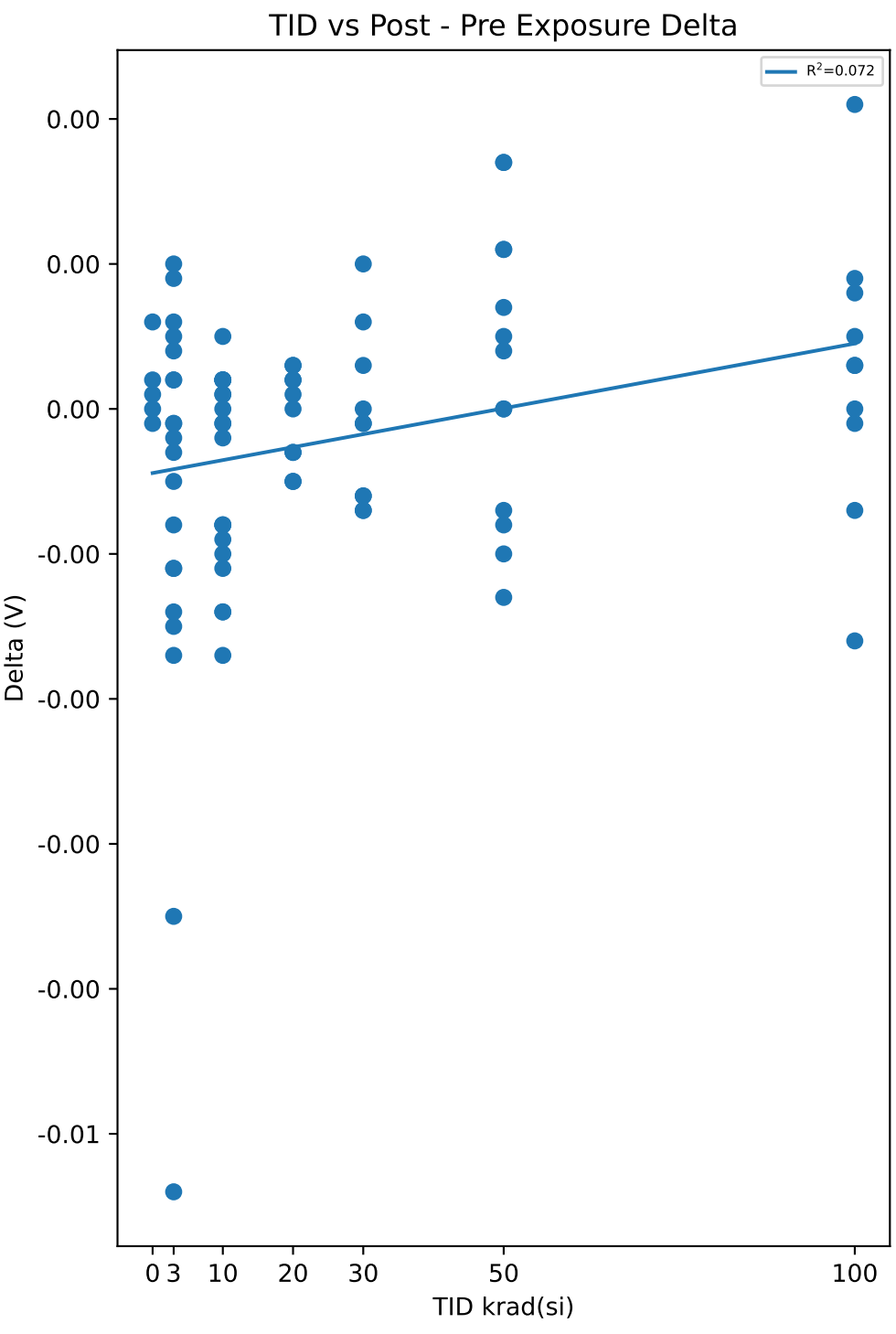
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6078	0.6057	-0.0021
51	3	Biased	0.6022	0.5919	-0.0103
52	3	Biased	0.6144	0.5924	-0.022
53	3	Biased	0.5971	0.6133	0.0162
54	3	Biased	0.6103	0.5979	-0.0124
55	3	Unbiased	0.6137	0.6114	-0.0023
56	3	Unbiased	0.6147	0.6072	-0.0075
57	3	Unbiased	0.6062	0.6181	0.0119
58	3	Unbiased	0.6078	0.6079	0.0001
59	3	Unbiased	0.6078	0.6113	0.0035
60	10	Biased	0.6044	0.6034	-0.001
61	10	Biased	0.5971	0.6158	0.0187
62	10	Biased	0.6156	0.6088	-0.0068
63	10	Biased	0.6103	0.6074	-0.0029
64	10	Biased	0.6075	0.5997	-0.0078
65	10	Unbiased	0.6021	0.6032	0.0011
66	10	Unbiased	0.6031	0.6022	-0.0009
67	10	Unbiased	0.604	0.5998	-0.0042
68	10	Unbiased	0.6119	0.5936	-0.0183
69	10	Unbiased	0.609	0.5964	-0.0126
100	20	Biased	0.61	0.6006	-0.0094
200	20	Biased	0.6075	0.5993	-0.0082
300	20	Biased	0.6015	0.5897	-0.0118
400	20	Biased	0.6119	0.6066	-0.0053
500	20	Biased	0.618	0.6087	-0.0093
600	20	Unbiased	0.6031	0.6022	-0.0009
700	20	Unbiased	0.6015	0.6013	-0.0002
800	20	Unbiased	0.5988	0.5996	0.0008
900	20	Unbiased	0.6168	0.6144	-0.0024
1000	20	Unbiased	0.5987	0.5988	0.0001
1100	30	Biased	0.6094	0.5965	-0.0129
1200	30	Biased	0.6047	0.5944	-0.0103
1300	30	Biased	0.6006	0.591	-0.0096
1400	30	Biased	0.6022	0.5924	-0.0098
1500	30	Biased	0.6134	0.5997	-0.0137
1600	30	Unbiased	0.5926	0.5913	-0.0013
1700	30	Unbiased	0.6099	0.6102	0.0003
1800	30	Unbiased	0.6081	0.6081	0
1900	30	Unbiased	0.6128	0.6119	-0.0009
2000	30	Unbiased	0.5997	0.5999	0.0002
2100	50	Biased-84Hr-Anneal	0.5988	0.5872	-0.0116
2200	50	Biased-84Hr-Anneal	0.6125	0.5822	-0.0303
2300	50	Biased-84Hr-Anneal	0.6125	0.5994	-0.0131
2400	50	Biased-84Hr-Anneal	0.611	0.5962	-0.0148
2500	50	Biased-84Hr-Anneal	0.6032	0.5897	-0.0135
2600	50	Unbiased	0.619	0.6199	0.0009
2700	50	Unbiased	0.609	0.6094	0.0004
2800	50	Unbiased	0.6066	0.605	-0.0016
2900	50	Unbiased	0.5918	0.5921	0.0003
3000	50	Unbiased	0.5944	0.5947	0.0003
4000	100	Biased-168Hr-Anneal	0.6102	0.5879	-0.0223
4100	100	Biased-168Hr-Anneal	0.6115	0.5921	-0.0194
4200	100	Biased-168Hr-Anneal	0.5829	0.5618	-0.0211
4300	100	Biased-168Hr-Anneal	0.593	0.5716	-0.0214
4400	100	Biased-168Hr-Anneal	0.6052	0.5869	-0.0183
4500	100	Unbiased-168Hr-Anneal	0.6001	0.6019	0.0018
4600	100	Unbiased-168Hr-Anneal	0.6096	0.6069	-0.0027
4700	100	Unbiased-168Hr-Anneal	0.6145	0.6134	-0.0011
4800	100	Unbiased-168Hr-Anneal	0.6002	0.6052	0.005
4900	100	Unbiased-168Hr-Anneal	0.5968	0.5993	0.0025
9300	0	CORRELATION	0.6071	0.6112	0.0041
9400	0	CORRELATION	0.6231	0.6219	-0.0012
9500	0	CORRELATION	0.6026	0.6018	-0.0008
9600	0	CORRELATION	0.6132	0.6131	-0.0001
9700	0	CORRELATION	0.6078	0.6085	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	0.6026	0.61076	0.6231	0.0078577	0.6018	0.6113	0.6219	0.0073092	-0.0012	0.00054	0.0041	0.0021173
3	0.5971	0.6082	0.6147	0.0055682	0.5919	0.60571	0.6181	0.0088859	-0.022	-0.00249	0.0162	0.011373
10	0.5971	0.6065	0.6156	0.0054119	0.5936	0.60303	0.6158	0.006418	-0.0183	-0.00347	0.0187	0.00977
20	0.5987	0.60678	0.618	0.0071621	0.5897	0.60212	0.6144	0.0066394	-0.0118	-0.00466	0.0008	0.0047084
30	0.5926	0.60534	0.6134	0.0066027	0.591	0.59954	0.6119	0.0079394	-0.0137	-0.0058	0.0003	0.0059125
50	0.5918	0.60588	0.619	0.0087152	0.5822	0.59758	0.6199	0.011269	-0.0303	-0.0083	0.0009	0.010222
100	0.5829	0.6024	0.6145	0.0097743	0.5618	0.5927	0.6134	0.016233	-0.0223	-0.0097	0.005	0.011613

Device Test: 17.14 LEVEL|STATIC/VSNSP/5////@VREF_INTERNAL





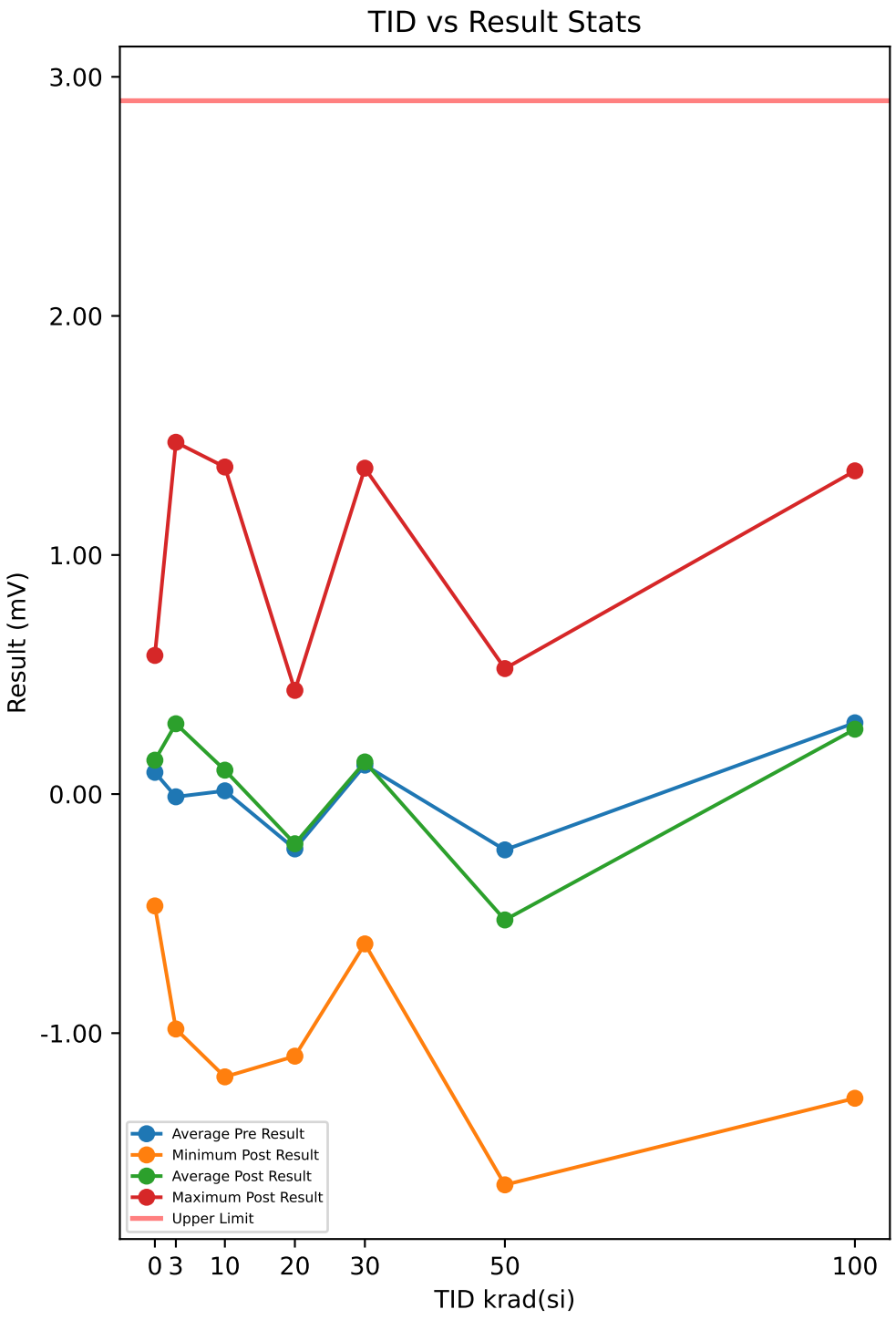
Test Results (Lower Limit = 0.593, Upper Limit = 0.606 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6	0.5985	-0.0015
51	3	Biased	0.599	0.5994	0.0004
52	3	Biased	0.5978	0.5987	0.0009
53	3	Biased	0.5996	0.5979	-0.0017
54	3	Biased	0.5999	0.5994	-0.0005
55	3	Unbiased	0.5994	0.6	0.0006
56	3	Unbiased	0.6012	0.5958	-0.0054
57	3	Unbiased	0.601	0.5975	-0.0035
58	3	Unbiased	0.6001	0.599	-0.0011
59	3	Unbiased	0.5992	0.6002	0.001
60	10	Biased	0.5997	0.5988	-0.0009
61	10	Biased	0.5997	0.5983	-0.0014
62	10	Biased	0.5996	0.5994	-0.0002
63	10	Biased	0.5997	0.5989	-0.0008
64	10	Biased	0.5985	0.5977	-0.0008
65	10	Unbiased	0.5998	0.5999	0.0001
66	10	Unbiased	0.6006	0.5995	-0.0011
67	10	Unbiased	0.5992	0.5982	-0.001
68	10	Unbiased	0.5998	0.5997	-0.0001
69	10	Unbiased	0.5993	0.5995	0.0002
100	20	Biased	0.6003	0.6	-0.0003
200	20	Biased	0.6004	0.6007	0.0003
300	20	Biased	0.5993	0.5988	-0.0005
400	20	Biased	0.6	0.6001	0.0001
500	20	Biased	0.5989	0.5984	-0.0005
600	20	Unbiased	0.6008	0.6011	0.0003
700	20	Unbiased	0.5996	0.5998	0.0002
800	20	Unbiased	0.5995	0.5997	0.0002
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.5989	0.5986	-0.0003
1100	30	Biased	0.5995	0.5988	-0.0007
1200	30	Biased	0.5994	0.5993	-0.0001
1300	30	Biased	0.5999	0.5993	-0.0006
1400	30	Biased	0.5994	0.6	0.0006
1500	30	Biased	0.5981	0.5975	-0.0006
1600	30	Unbiased	0.5988	0.5988	0
1700	30	Unbiased	0.6002	0.6001	-0.0001
1800	30	Unbiased	0.5994	0.5987	-0.0007
1900	30	Unbiased	0.6004	0.6014	0.001
2000	30	Unbiased	0.599	0.5993	0.0003
2100	50	Biased-84Hr-Anneal	0.5996	0.6013	0.0017
2200	50	Biased-84Hr-Anneal	0.5985	0.599	0.0005
2300	50	Biased-84Hr-Anneal	0.5995	0.5982	-0.0013
2400	50	Biased-84Hr-Anneal	0.5993	0.6	0.0007
2500	50	Biased-84Hr-Anneal	0.5992	0.5982	-0.001
2600	50	Unbiased	0.6006	0.6017	0.0011
2700	50	Unbiased	0.5994	0.6005	0.0011
2800	50	Unbiased	0.5984	0.5988	0.0004
2900	50	Unbiased	0.6013	0.6005	-0.0008
3000	50	Unbiased	0.5995	0.5988	-0.0007
4000	100	Biased-168Hr-Anneal	0.5981	0.5965	-0.0016
4100	100	Biased-168Hr-Anneal	0.5982	0.5991	0.0009
4200	100	Biased-168Hr-Anneal	0.5997	0.599	-0.0007
4300	100	Biased-168Hr-Anneal	0.6004	0.6007	0.0003
4400	100	Biased-168Hr-Anneal	0.6001	0.6009	0.0008
4500	100	Unbiased-168Hr-Anneal	0.5986	0.5989	0.0003
4600	100	Unbiased-168Hr-Anneal	0.5982	0.5982	0
4700	100	Unbiased-168Hr-Anneal	0.5987	0.5992	0.0005
4800	100	Unbiased-168Hr-Anneal	0.5995	0.5994	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5998	0.6019	0.0021
9300	0	CORRELATION	0.5999	0.6005	0.0006
9400	0	CORRELATION	0.5994	0.5993	-0.0001
9500	0	CORRELATION	0.5993	0.5994	0.0001
9600	0	CORRELATION	0.5985	0.5987	0.0002
9700	0	CORRELATION	0.5997	0.5997	0

Test Statistics (V)

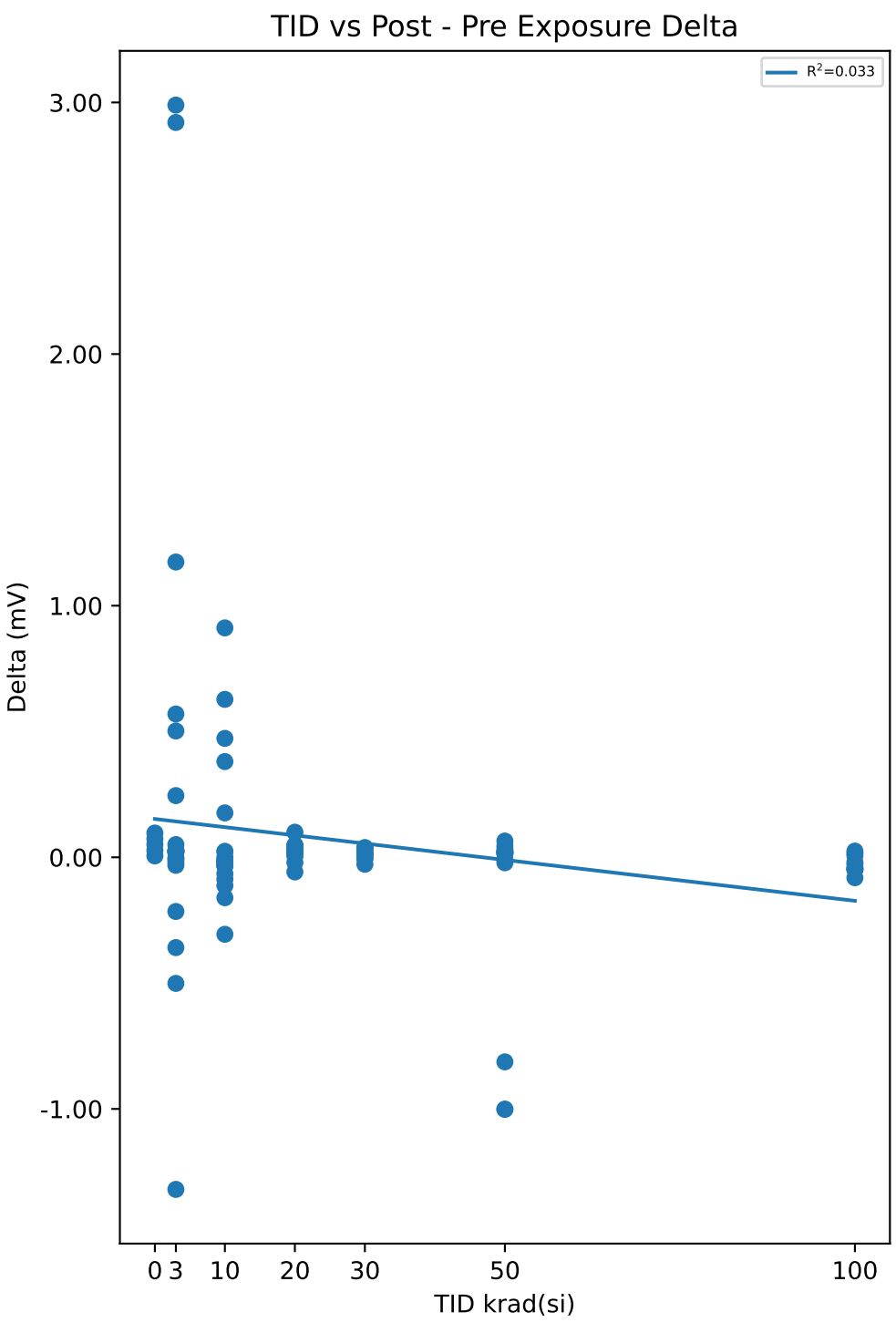
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5985	0.59936	0.5999	0.00053666	0.5987	0.59952	0.6005	0.00065727	-0.0001	0.00016	0.0006	0.00027019
3	0.5978	0.59972	0.6012	0.00098184	0.5958	0.59864	0.6002	0.0013125	-0.0054	-0.00108	0.001	0.002073
10	0.5985	0.59959	0.6006	0.00053427	0.5977	0.59899	0.5999	0.0007325	-0.0014	-0.0006	0.0002	0.00055377
20	0.5989	0.59977	0.6008	0.00063953	0.5984	0.59972	0.6011	0.00088292	-0.0005	-5e-05	0.0003	0.00032059
30	0.5981	0.59941	0.6004	0.00067569	0.5975	0.59932	0.6014	0.0010347	-0.0007	-9e-05	0.001	0.00058585
50	0.5984	0.59953	0.6013	0.00086929	0.5982	0.5997	0.6017	0.001271	-0.0013	0.00017	0.0017	0.0010404
100	0.5981	0.59913	0.6004	0.00086416	0.5965	0.59938	0.6019	0.001512	-0.0016	0.00025	0.0021	0.0009846

Device Test: 17.15 LEVEL|STATIC/VSNSP/5////@EA_INPUT_OFFSET_V



Test Results (Upper Limit = 2.9 (mV))

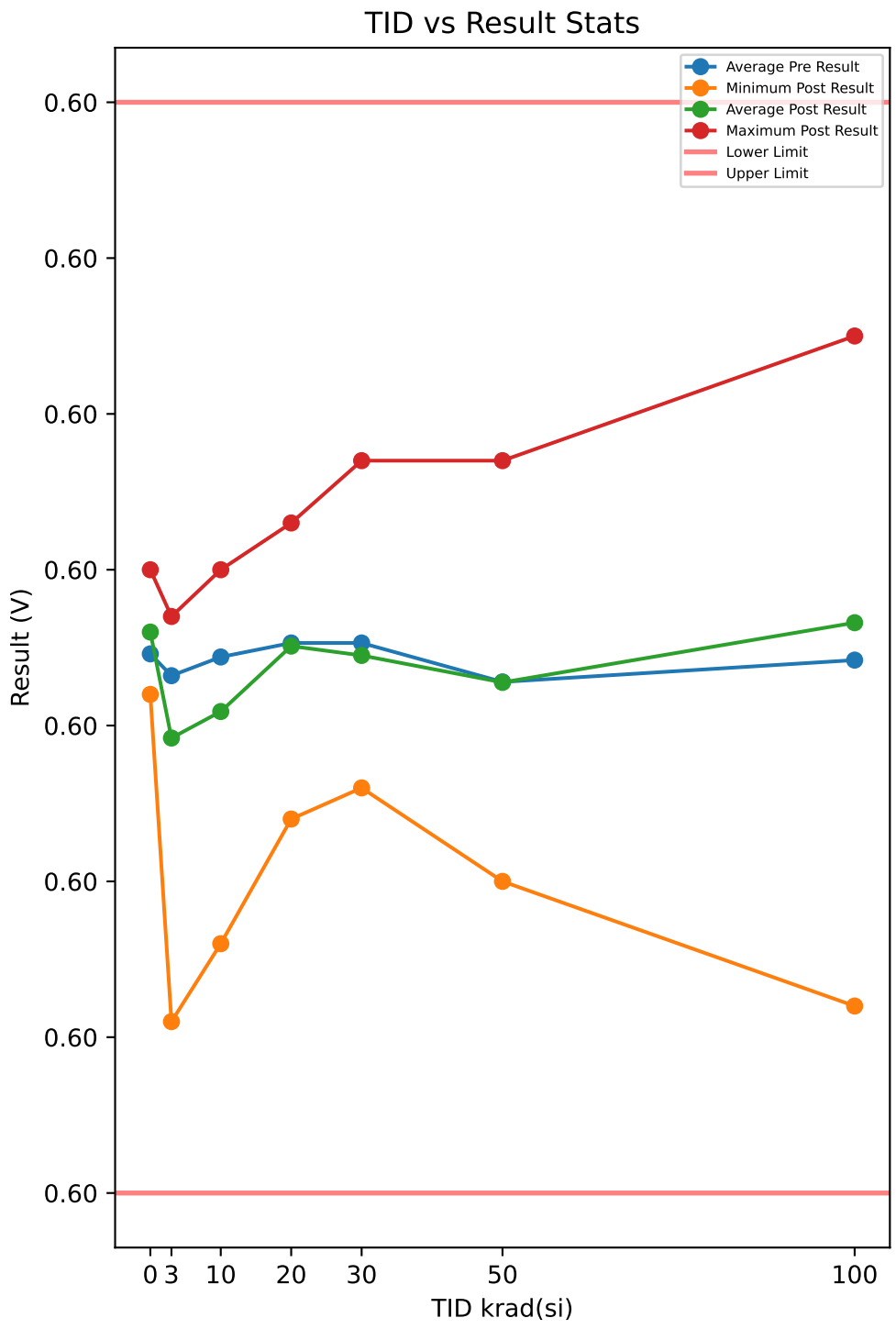
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.5365	0.637	1.1735
51	3	Biased	0.3371	-0.9827	-1.3198
52	3	Biased	0.8267	0.4678	-0.3589
53	3	Biased	0.4996	0.7448	0.2452
54	3	Biased	-0.1178	0.3842	0.502
55	3	Unbiased	-0.4483	-0.6636	-0.2153
56	3	Unbiased	-1.6214	1.299	2.9204
57	3	Unbiased	-1.518	1.4715	2.9895
58	3	Unbiased	-0.2068	0.3627	0.5695
59	3	Unbiased	-0.2783	-0.7794	-0.5011
60	10	Biased	0.1666	0.0059	-0.1607
61	10	Biased	0.2267	0.4032	0.1765
62	10	Biased	0.3333	0.3333	0
63	10	Biased	0.2075	0.68	0.4725
64	10	Biased	0.0158	-0.0966	-0.1124
65	10	Unbiased	-0.5451	-0.1646	0.3805
66	10	Unbiased	-0.8769	-1.1829	-0.306
67	10	Unbiased	0.4563	1.368	0.9117
68	10	Unbiased	-0.8872	-0.9035	-0.0163
69	10	Unbiased	-0.0709	0.5568	0.6277
100	20	Biased	-0.5427	-0.5191	0.0236
200	20	Biased	-0.485	-0.3852	0.0998
300	20	Biased	-0.1387	-0.1058	0.0329
400	20	Biased	-0.4912	-0.4426	0.0486
500	20	Biased	0.0214	-0.0368	-0.0582
600	20	Unbiased	-1.123	-1.0963	0.0267
700	20	Unbiased	0.4543	0.4336	-0.0207
800	20	Unbiased	-0.3116	-0.2646	0.047
900	20	Unbiased	0.0294	0.0416	0.0122
1000	20	Unbiased	0.2925	0.297	0.0045
1100	30	Biased	-0.0628	-0.0272	0.0356
1200	30	Biased	0.3658	0.3381	-0.0277
1300	30	Biased	-0.3303	-0.2916	0.0387
1400	30	Biased	-0.117	-0.0978	0.0192
1500	30	Biased	1.3662	1.3631	-0.0031
1600	30	Unbiased	0.2502	0.2597	0.0095
1700	30	Unbiased	-0.3165	-0.3226	-0.0061
1800	30	Unbiased	-0.063	-0.0445	0.0185
1900	30	Unbiased	-0.6382	-0.6267	0.0115
2000	30	Unbiased	0.7563	0.7927	0.0364
2100	50	Biased-84Hr-Anneal	-0.6332	-1.6345	-1.0013
2200	50	Biased-84Hr-Anneal	0.6917	-0.1213	-0.813
2300	50	Biased-84Hr-Anneal	-0.3092	-0.2945	0.0147
2400	50	Biased-84Hr-Anneal	-0.4847	-0.4399	0.0448
2500	50	Biased-84Hr-Anneal	0.4781	0.5006	0.0225
2600	50	Unbiased	-1.3417	-1.2771	0.0646
2700	50	Unbiased	0.2596	0.2379	-0.0217
2800	50	Unbiased	0.5022	0.5248	0.0226
2900	50	Unbiased	-1.1786	-1.1881	-0.0095
3000	50	Unbiased	-0.319	-0.2878	0.0312
4000	100	Biased-168Hr-Anneal	0.6099	0.626	0.0161
4100	100	Biased-168Hr-Anneal	0.9087	0.8647	-0.044
4200	100	Biased-168Hr-Anneal	-0.4306	-0.4506	-0.02
4300	100	Biased-168Hr-Anneal	-1.223	-1.2724	-0.0494
4400	100	Biased-168Hr-Anneal	-0.0339	-0.0093	0.0246
4500	100	Unbiased-168Hr-Anneal	1.3453	1.3519	0.0066
4600	100	Unbiased-168Hr-Anneal	1.0913	1.0466	-0.0447
4700	100	Unbiased-168Hr-Anneal	0.7143	0.6331	-0.0812
4800	100	Unbiased-168Hr-Anneal	0.346	0.3174	-0.0286
4900	100	Unbiased-168Hr-Anneal	-0.3475	-0.3944	-0.0469
9300	0	CORRELATION	-0.4733	-0.4678	0.0055
9400	0	CORRELATION	-0.0874	0.009	0.0964
9500	0	CORRELATION	0.4864	0.5142	0.0278
9600	0	CORRELATION	0.5289	0.5799	0.051
9700	0	CORRELATION	-0.0003	0.0729	0.0732

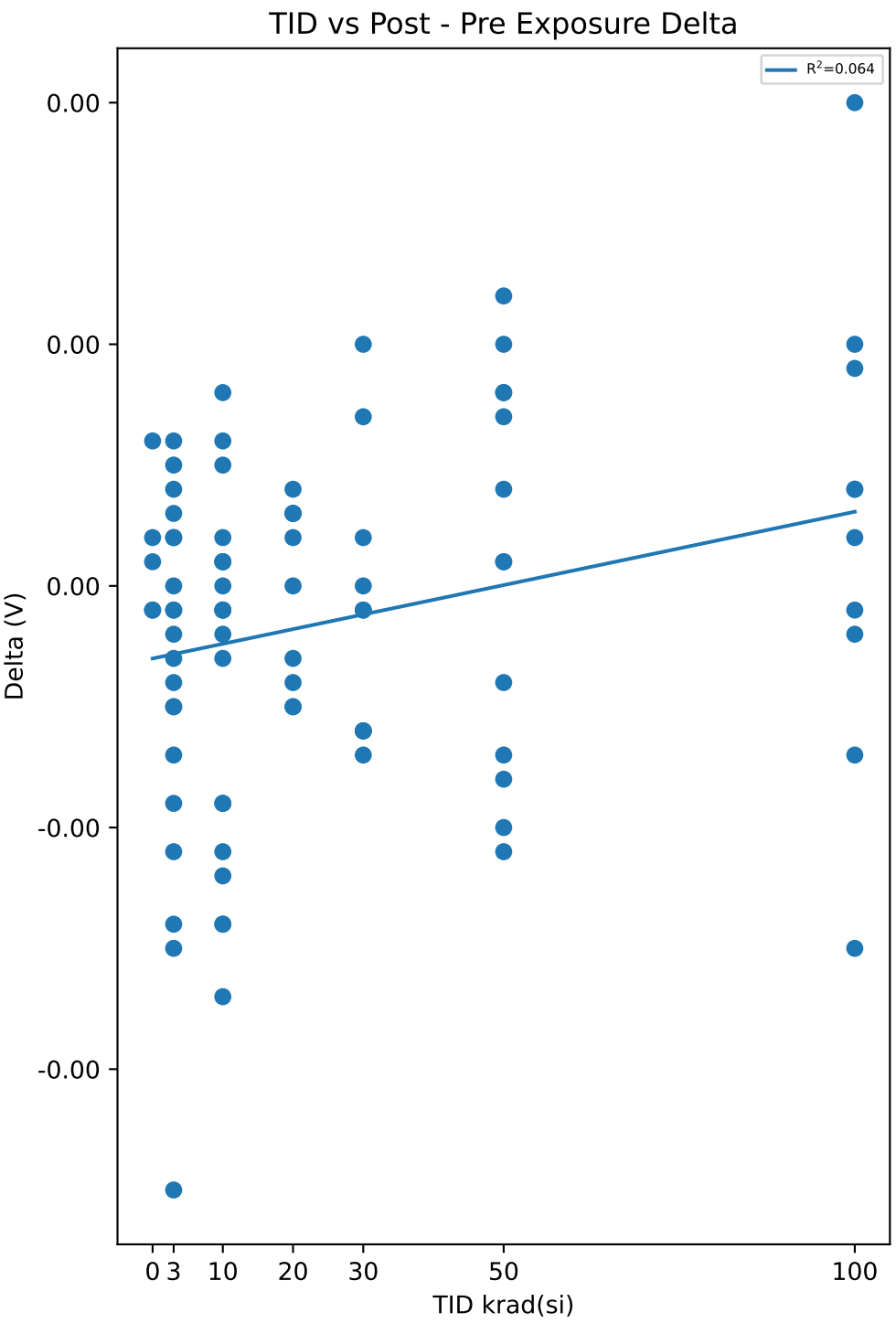


Test Statistics (mV)

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	-0.4733	0.09086	0.5289	0.42033	-0.4678	0.14164	0.5799	0.42562	0.0055	0.05078	0.0964	0.035924
3	-1.6214	-0.30637	0.8267	0.79332	-0.9827	0.29413	1.4715	0.84719	-1.3198	0.6005	2.9895	1.4158
10	-0.8872	-0.09739	0.4563	0.49499	-1.1829	0.09996	1.368	0.75053	-0.306	0.19735	0.9117	0.38977
20	-1.123	-0.22946	0.4543	0.46131	-1.0963	-0.20782	0.4336	0.44023	-0.0582	0.02164	0.0998	0.042407
30	-0.6382	0.12107	1.3662	0.5894	-0.6267	0.13432	1.3631	0.58518	-0.0277	0.01325	0.0387	0.021297
50	-1.3417	-0.23348	0.6917	0.70742	-1.6345	-0.39799	0.5248	0.75208	-1.0013	-0.16451	0.0646	0.39467
100	-1.223	0.29805	1.3453	0.79883	-1.2724	0.2713	1.3519	0.80317	-0.0812	-0.02675	0.0246	0.033562

Device Test: 17.16 LEVEL|STATIC/SS_TR/5////@VREF_25C





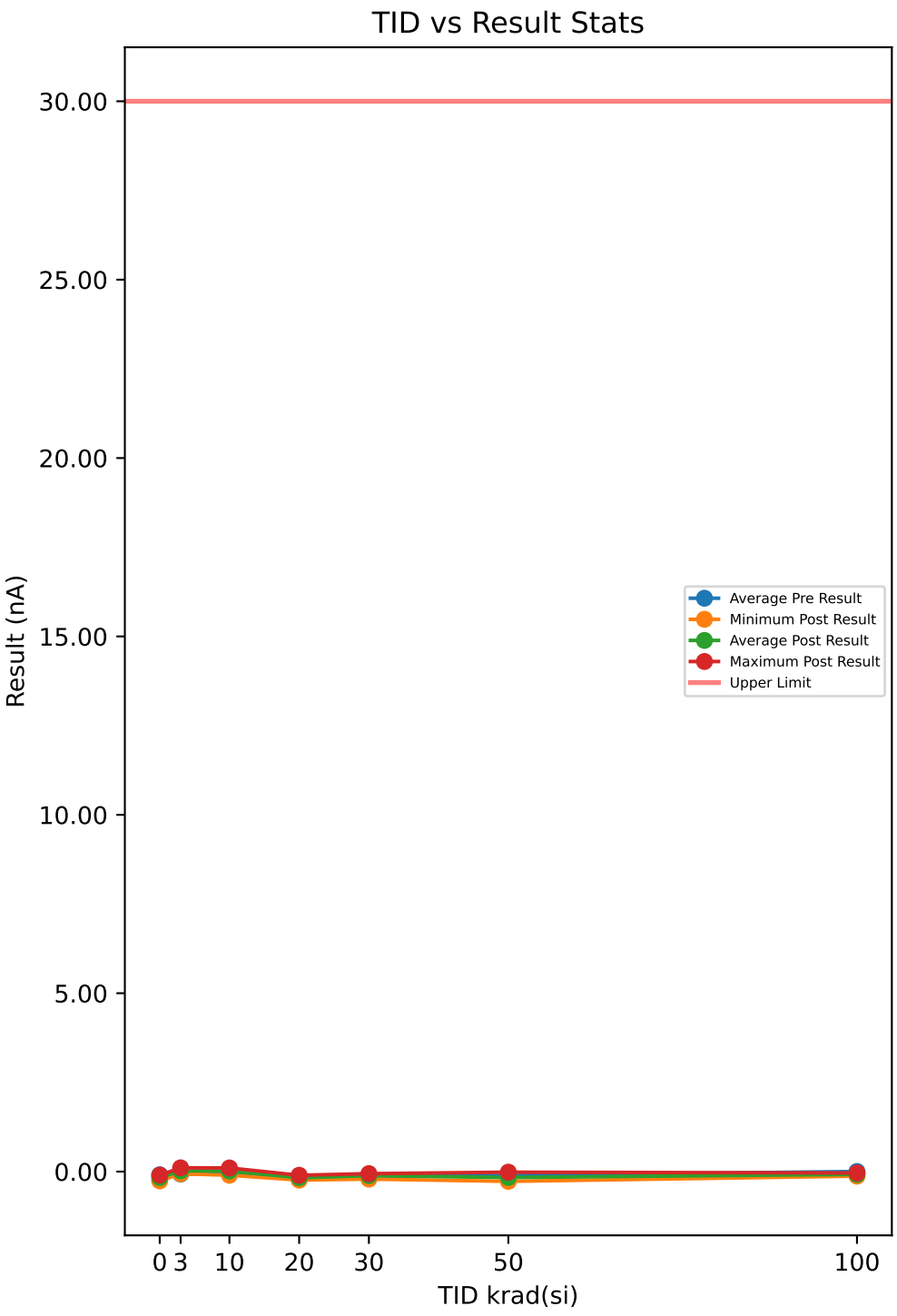
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

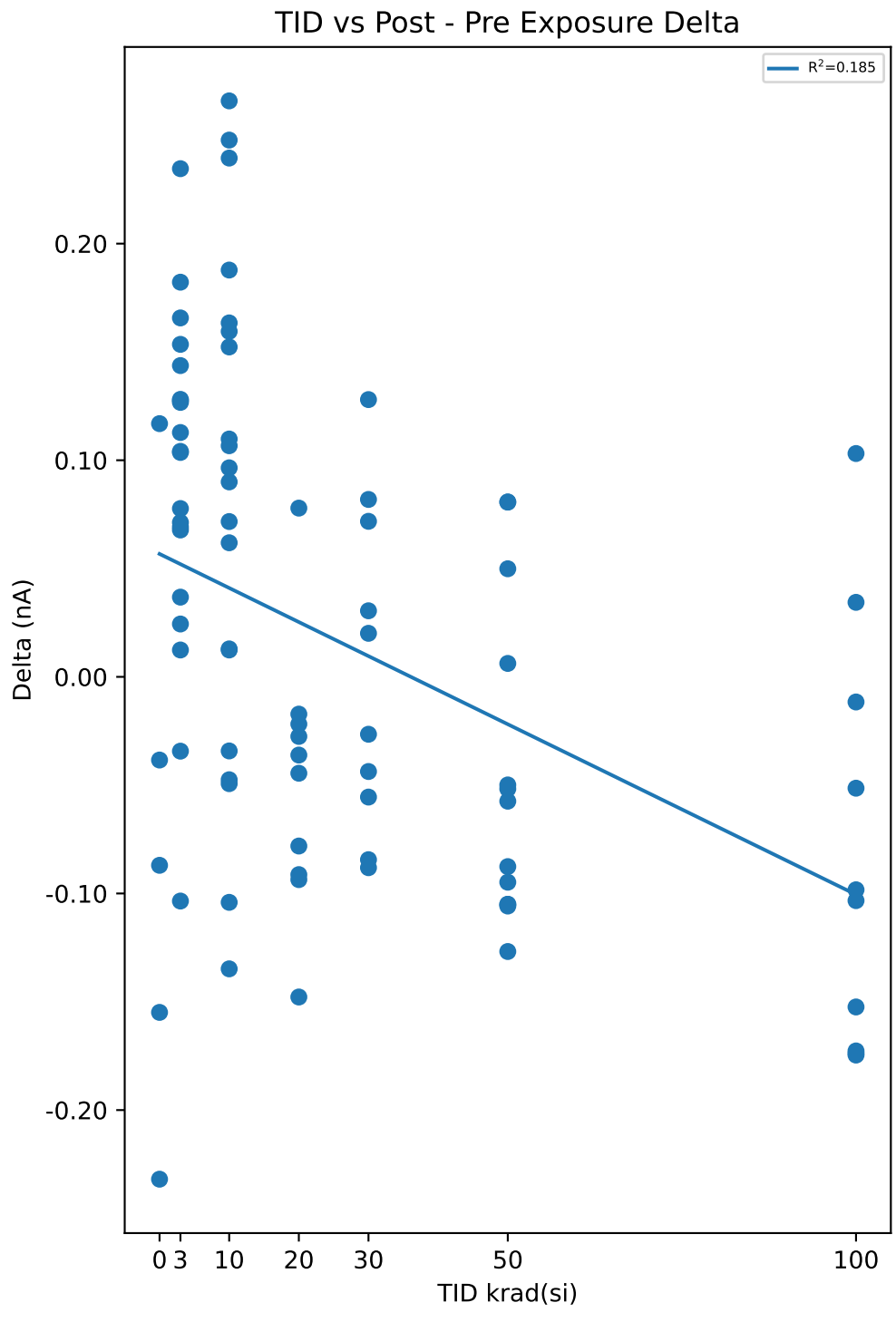
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5995	0.5991	-0.0004
51	3	Biased	0.5993	0.5984	-0.0009
52	3	Biased	0.5986	0.5991	0.0005
53	3	Biased	0.6001	0.5986	-0.0015
54	3	Biased	0.5998	0.5997	-0.0001
55	3	Unbiased	0.599	0.5993	0.0003
56	3	Unbiased	0.5996	0.5971	-0.0025
57	3	Unbiased	0.5995	0.599	-0.0005
58	3	Unbiased	0.5999	0.5994	-0.0005
59	3	Unbiased	0.5989	0.5995	0.0006
60	10	Biased	0.5999	0.5988	-0.0011
61	10	Biased	0.5999	0.5987	-0.0012
62	10	Biased	0.5999	0.5997	-0.0002
63	10	Biased	0.5999	0.5996	-0.0003
64	10	Biased	0.5985	0.5976	-0.0009
65	10	Unbiased	0.5993	0.5998	0.0005
66	10	Unbiased	0.5997	0.5983	-0.0014
67	10	Unbiased	0.5997	0.5996	-0.0001
68	10	Unbiased	0.5989	0.5988	-0.0001
69	10	Unbiased	0.5992	0.6	0.0008
100	20	Biased	0.5998	0.5994	-0.0004
200	20	Biased	0.5999	0.6003	0.0004
300	20	Biased	0.5992	0.5987	-0.0005
400	20	Biased	0.5995	0.5997	0.0002
500	20	Biased	0.5989	0.5984	-0.0005
600	20	Unbiased	0.5997	0.6	0.0003
700	20	Unbiased	0.6	0.6003	0.0003
800	20	Unbiased	0.5991	0.5994	0.0003
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.5992	0.5989	-0.0003
1100	30	Biased	0.5994	0.5988	-0.0006
1200	30	Biased	0.5998	0.5997	-0.0001
1300	30	Biased	0.5996	0.599	-0.0006
1400	30	Biased	0.5992	0.5999	0.0007
1500	30	Biased	0.5995	0.5989	-0.0006
1600	30	Unbiased	0.5991	0.5991	0
1700	30	Unbiased	0.5999	0.5998	-0.0001
1800	30	Unbiased	0.5993	0.5986	-0.0007
1900	30	Unbiased	0.5997	0.6007	0.001
2000	30	Unbiased	0.5998	0.6	0.0002
2100	50	Biased-84Hr-Anneal	0.5989	0.5997	0.0008
2200	50	Biased-84Hr-Anneal	0.5992	0.5988	-0.0004
2300	50	Biased-84Hr-Anneal	0.5991	0.598	-0.0011
2400	50	Biased-84Hr-Anneal	0.5988	0.5995	0.0007
2500	50	Biased-84Hr-Anneal	0.5997	0.5987	-0.001
2600	50	Unbiased	0.5992	0.6004	0.0012
2700	50	Unbiased	0.5997	0.6007	0.001
2800	50	Unbiased	0.5989	0.5993	0.0004
2900	50	Unbiased	0.6001	0.5993	-0.0008
3000	50	Unbiased	0.5992	0.5985	-0.0007
4000	100	Biased-168Hr-Anneal	0.5987	0.5972	-0.0015
4100	100	Biased-168Hr-Anneal	0.599	0.6	0.001
4200	100	Biased-168Hr-Anneal	0.5993	0.5986	-0.0007
4300	100	Biased-168Hr-Anneal	0.5992	0.5994	0.0002
4400	100	Biased-168Hr-Anneal	0.6	0.6009	0.0009
4500	100	Unbiased-168Hr-Anneal	0.5999	0.6003	0.0004
4600	100	Unbiased-168Hr-Anneal	0.5993	0.5992	-0.0001
4700	100	Unbiased-168Hr-Anneal	0.5994	0.5998	0.0004
4800	100	Unbiased-168Hr-Anneal	0.5999	0.5997	-0.0002
4900	100	Unbiased-168Hr-Anneal	0.5995	0.6015	0.002
9300	0	CORRELATION	0.5994	0.6	0.0006
9400	0	CORRELATION	0.5993	0.5992	-0.0001
9500	0	CORRELATION	0.5998	0.5999	0.0001
9600	0	CORRELATION	0.599	0.5992	0.0002
9700	0	CORRELATION	0.5998	0.5997	-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	0.599	0.59946	0.5998	0.00034351	0.5992	0.5996	0.6	0.00038079	-0.0001	0.00014	0.0006	0.0002881
3	0.5986	0.59942	0.6001	0.00047329	0.5971	0.59892	0.5997	0.000751	-0.0025	-0.0005	0.0006	0.00095336
10	0.5985	0.59949	0.5999	0.00049542	0.5976	0.59909	0.6	0.00077381	-0.0014	-0.0004	0.0008	0.00073485
20	0.5989	0.59953	0.6	0.00040565	0.5984	0.59951	0.6003	0.00067074	-0.0005	-2e-05	0.0004	0.00036757
30	0.5991	0.59953	0.5999	0.00027508	0.5986	0.59945	0.6007	0.00066875	-0.0007	-8e-05	0.001	0.00058271
50	0.5988	0.59928	0.6001	0.00042111	0.598	0.59929	0.6007	0.00083726	-0.0011	1e-05	0.0012	0.00089623
100	0.5987	0.59942	0.6	0.00041846	0.5972	0.59966	0.6015	0.0011983	-0.0015	0.00024	0.002	0.00096517

Device Test: 17.17 LEAK|POWERED/VSNSP/5////@VSNSP_LKG_CURR_0P6V





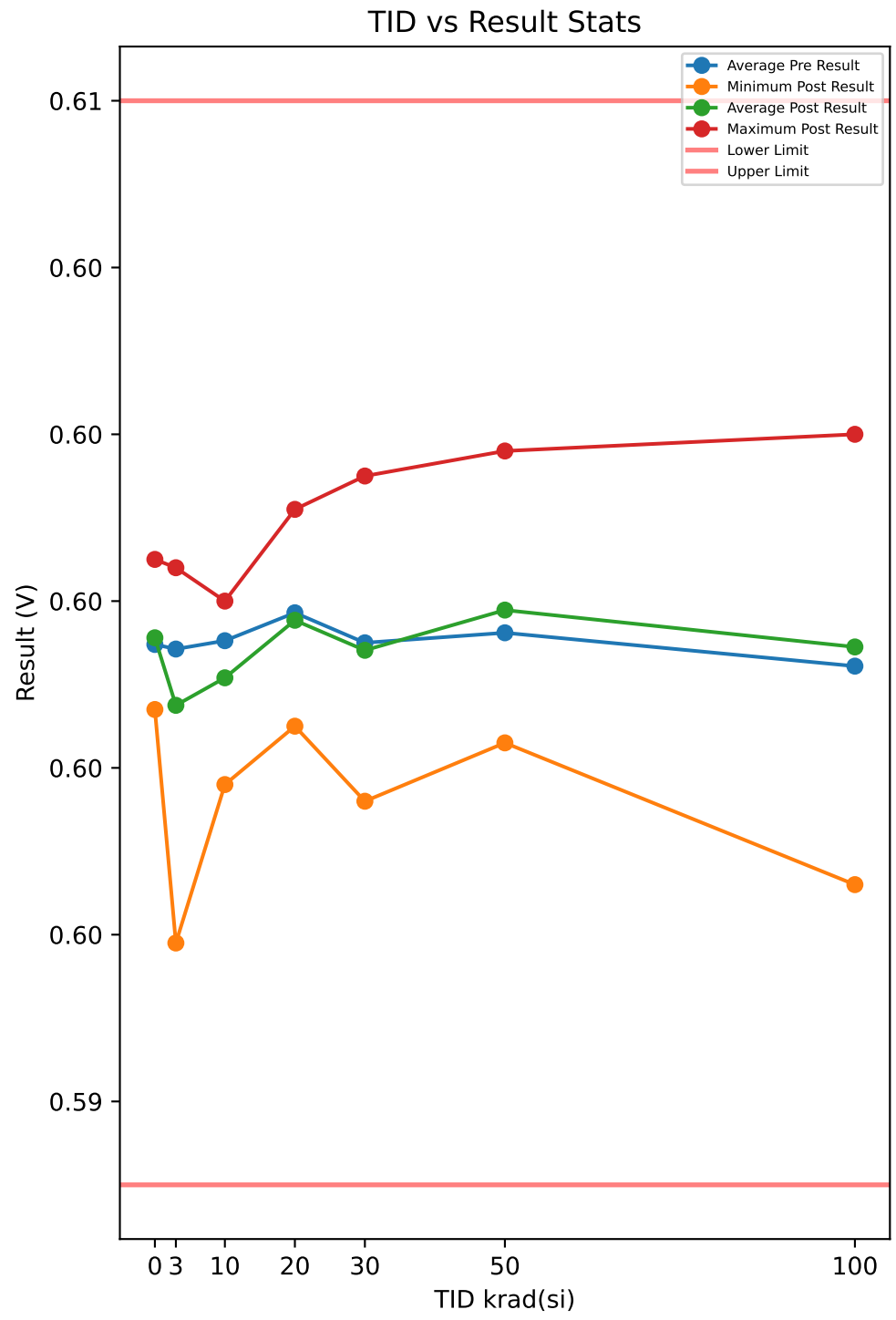
Test Results (Upper Limit = 30.0 (nA))

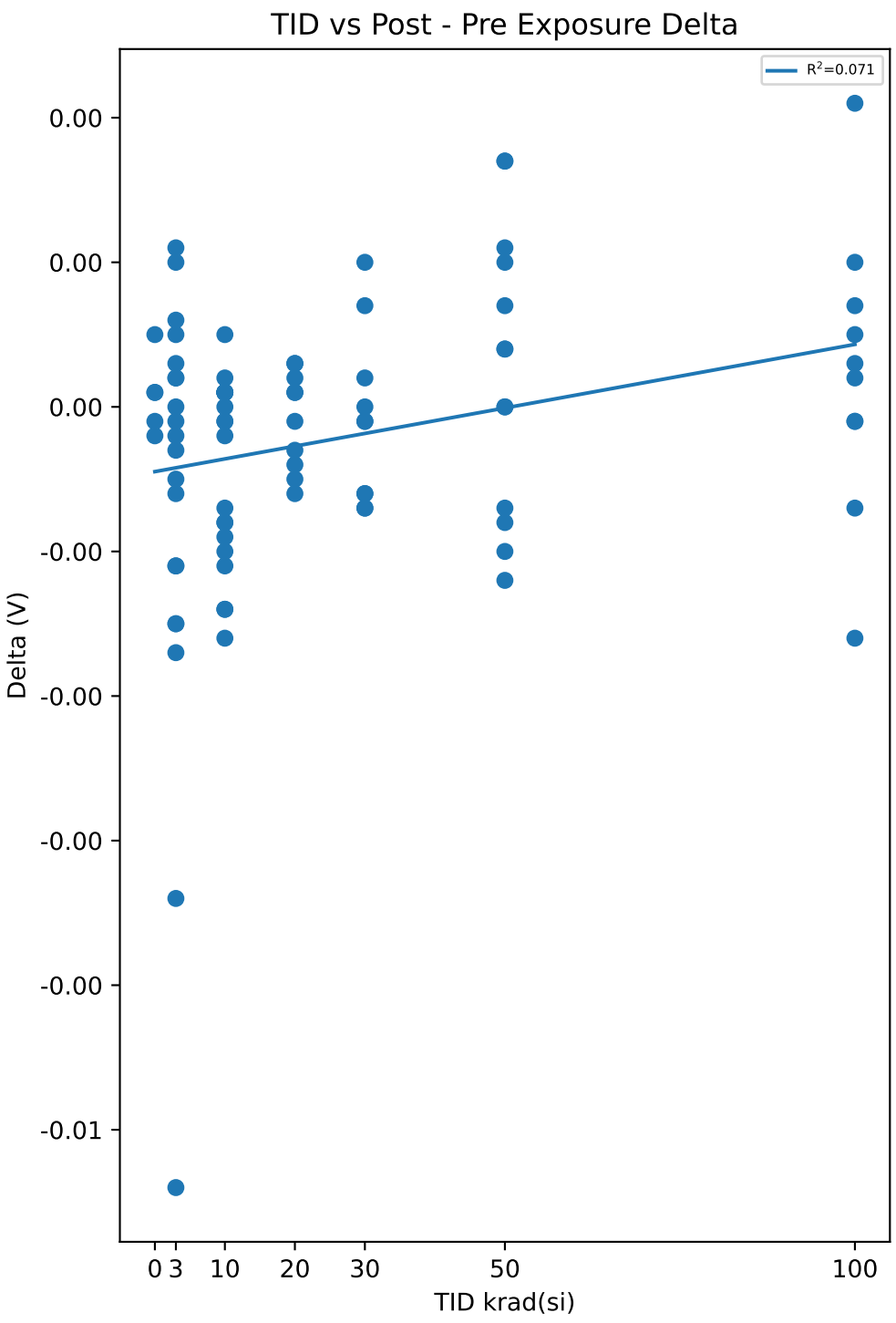
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.1292	0.1054	0.2346
51	3	Biased	-0.0905	0.0362	0.1267
52	3	Biased	-0.1037	0.062	0.1657
53	3	Biased	-0.1824	-0.0002	0.1822
54	3	Biased	-0.0544	0.0492	0.1036
55	3	Unbiased	-0.0655	0.0122	0.0777
56	3	Unbiased	-0.0974	-0.0606	0.0368
57	3	Unbiased	-0.1731	-0.0294	0.1437
58	3	Unbiased	-0.098	0.0148	0.1128
59	3	Unbiased	-0.0436	0.0242	0.0678
60	10	Biased	-0.0756	0.0767	0.1523
61	10	Biased	-0.1512	0.0122	0.1634
62	10	Biased	-0.1199	0.0679	0.1878
63	10	Biased	-0.1029	-0.0064	0.0965
64	10	Biased	-0.0537	-0.1012	-0.0475
65	10	Unbiased	-0.2074	0.0585	0.2659
66	10	Unbiased	-0.1511	-0.0794	0.0717
67	10	Unbiased	-0.1373	0.1022	0.2395
68	10	Unbiased	-0.1037	0.0558	0.1595
69	10	Unbiased	-0.2667	-0.0189	0.2478
100	20	Biased	0.0122	-0.1356	-0.1478
200	20	Biased	-0.2416	-0.1637	0.0779
300	20	Biased	-0.1154	-0.1935	-0.0781
400	20	Biased	-0.1099	-0.2035	-0.0936
500	20	Biased	-0.1731	-0.1949	-0.0218
600	20	Unbiased	-0.148	-0.1841	-0.0361
700	20	Unbiased	-0.1466	-0.2379	-0.0913
800	20	Unbiased	-0.1317	-0.1762	-0.0445
900	20	Unbiased	-0.0857	-0.1029	-0.0172
1000	20	Unbiased	-0.1105	-0.138	-0.0275
1100	30	Biased	-0.0998	-0.1263	-0.0265
1200	30	Biased	-0.0038	-0.0593	-0.0555
1300	30	Biased	-0.1918	-0.1099	0.0819
1400	30	Biased	-0.1105	-0.1949	-0.0844
1500	30	Biased	-0.0218	-0.0655	-0.0437
1600	30	Unbiased	-0.2285	-0.1567	0.0718
1700	30	Unbiased	-0.1856	-0.0576	0.128
1800	30	Unbiased	-0.1043	-0.0842	0.0201
1900	30	Unbiased	-0.1217	-0.2098	-0.0881
2000	30	Unbiased	-0.1099	-0.0794	0.0305
2100	50	Biased-84Hr-Anneal	-0.168	-0.0873	0.0807
2200	50	Biased-84Hr-Anneal	-0.1399	-0.2347	-0.0948
2300	50	Biased-84Hr-Anneal	-0.1368	-0.1942	-0.0574
2400	50	Biased-84Hr-Anneal	-0.1243	-0.2511	-0.1268
2500	50	Biased-84Hr-Anneal	0.006	-0.0998	-0.1058
2600	50	Unbiased	-0.0824	-0.17	-0.0876
2700	50	Unbiased	-0.0967	-0.1466	-0.0499
2800	50	Unbiased	-0.0662	-0.0163	0.0499
2900	50	Unbiased	-0.1918	-0.1856	0.0062
3000	50	Unbiased	-0.0793	-0.131	-0.0517
4000	100	Biased-168Hr-Anneal	0.0589	-0.0444	-0.1033
4100	100	Biased-168Hr-Anneal	-0.0795	-0.0451	0.0344
4200	100	Biased-168Hr-Anneal	-0.142	-0.0389	0.1031
4300	100	Biased-168Hr-Anneal	0.1107	-0.0631	-0.1738
4400	100	Biased-168Hr-Anneal	0.0651	-0.0873	-0.1524
4500	100	Unbiased-168Hr-Anneal	-0.0827	-0.0943	-0.0116
4600	100	Unbiased-168Hr-Anneal	-0.0171	-0.1154	-0.0983
4700	100	Unbiased-168Hr-Anneal	-0.0359	-0.0873	-0.0514
4800	100	Unbiased-168Hr-Anneal	0.0995	-0.0732	-0.1727
4900	100	Unbiased-168Hr-Anneal	0.0483	-0.1263	-0.1746
9300	0	CORRELATION	-0.2355	-0.1186	0.1169
9400	0	CORRELATION	-0.0278	-0.2597	-0.2319
9500	0	CORRELATION	-0.0837	-0.2386	-0.1549
9600	0	CORRELATION	-0.0128	-0.0998	-0.087
9700	0	CORRELATION	-0.0871	-0.1255	-0.0384

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	-0.2355	-0.08938	-0.0128	0.088098	-0.2597	-0.16844	-0.0998	0.074649	-0.2319	-0.07906	0.1169	0.13156
3	-0.1824	-0.10378	-0.0436	0.046438	-0.0606	0.02138	0.1054	0.046671	0.0368	0.12516	0.2346	0.058867
10	-0.2667	-0.13695	-0.0537	0.062762	-0.1012	0.01674	0.1022	0.068121	-0.0475	0.15369	0.2659	0.094619
20	-0.2416	-0.12503	0.0122	0.064849	-0.2379	-0.17303	-0.1029	0.039158	-0.1478	-0.048	0.0779	0.060443
30	-0.2285	-0.11777	-0.0038	0.070849	-0.2098	-0.11436	-0.0576	0.056098	-0.0881	0.00341	0.128	0.074567
50	-0.1918	-0.10794	0.006	0.056848	-0.2511	-0.15166	-0.0163	0.071249	-0.1268	-0.04372	0.0807	0.06857
100	-0.142	0.00253	0.1107	0.086304	-0.1263	-0.07753	-0.0389	0.030099	-0.1746	-0.08006	0.1031	0.096936

Device Test: 17.2 LEVEL|STATIC/VSNSP/4.5////@VREF_INTERNAL





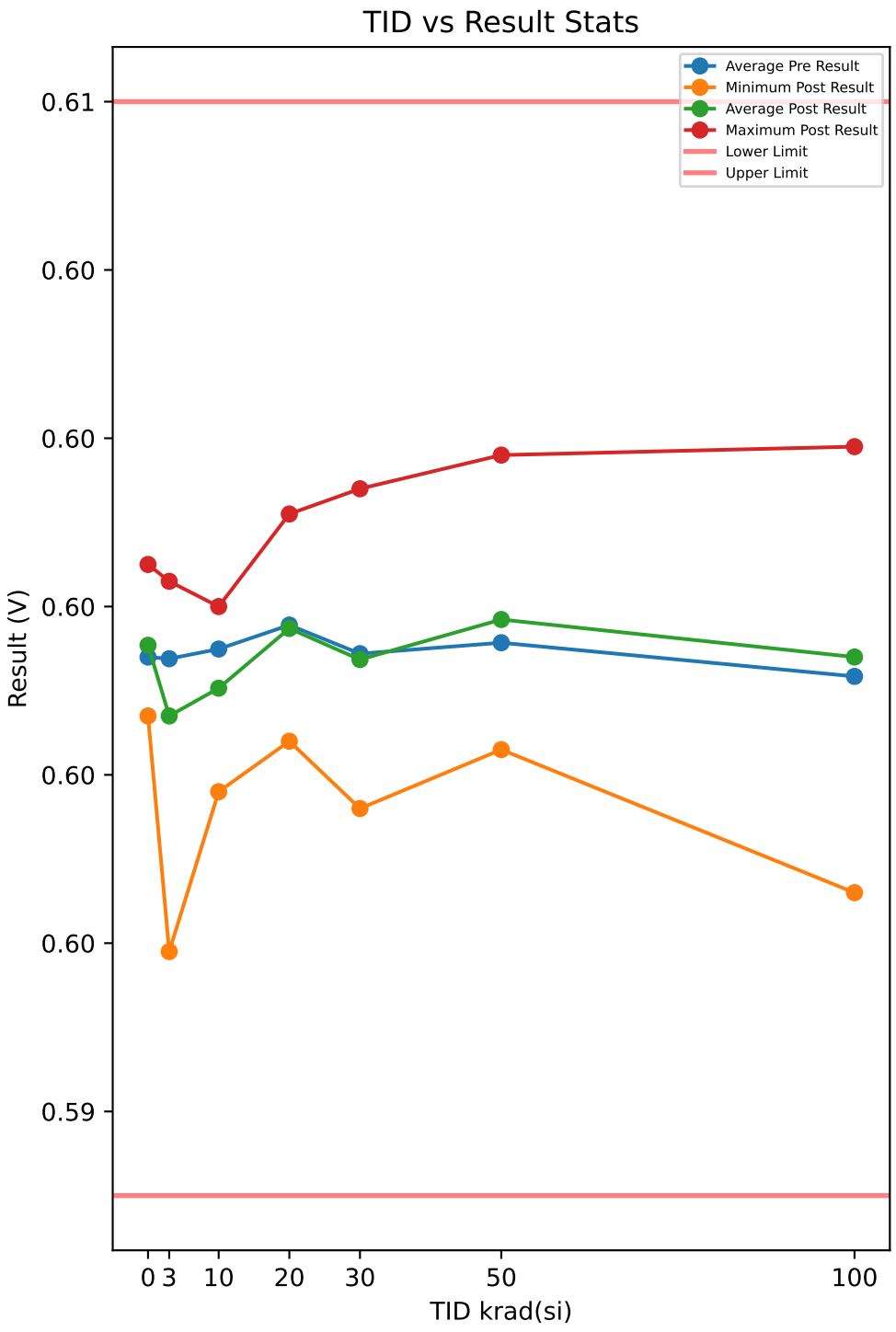
Test Results (Lower Limit = 0.593, Upper Limit = 0.606 (V))

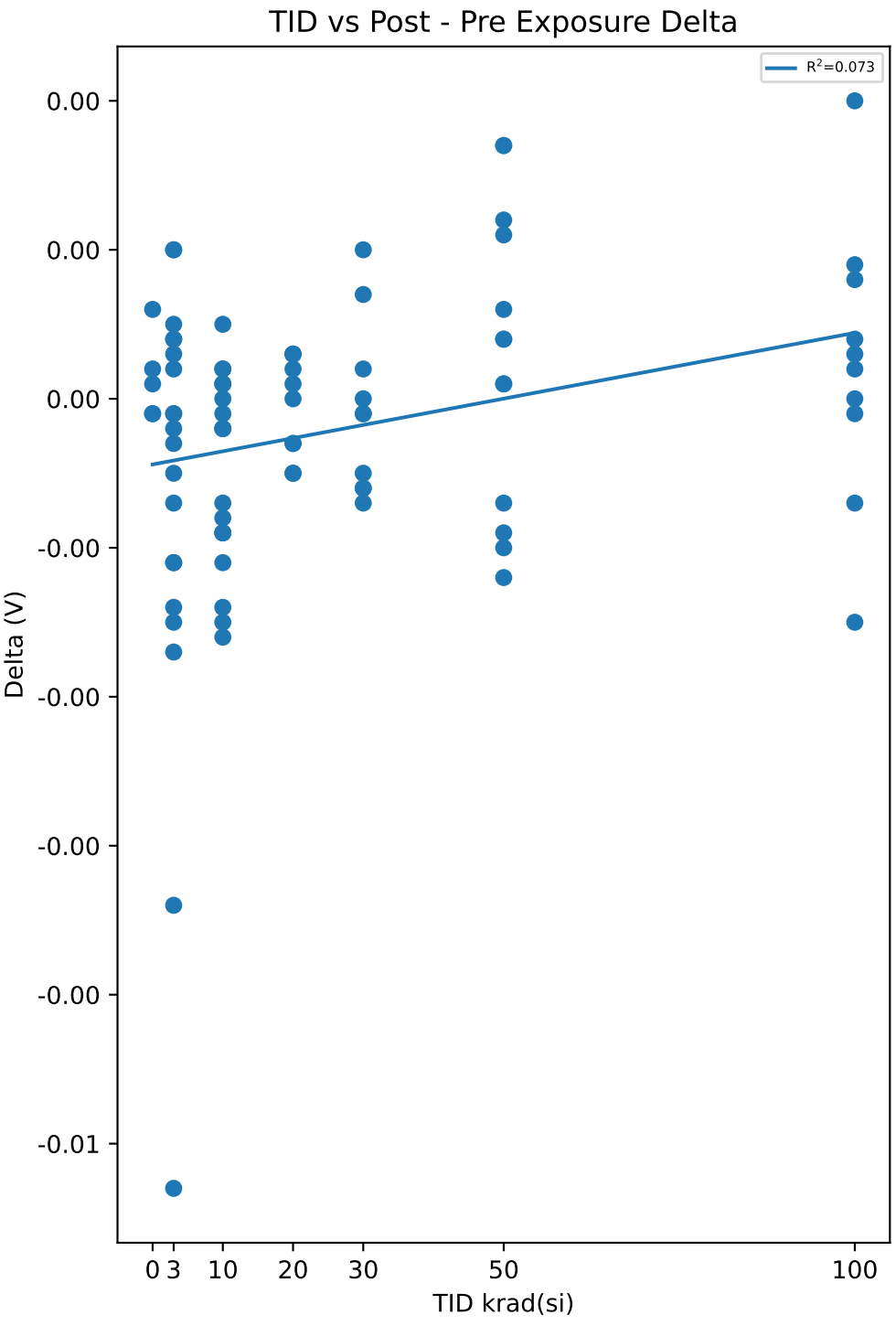
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6001	0.5986	-0.0015
51	3	Biased	0.5991	0.5994	0.0003
52	3	Biased	0.5978	0.5988	0.001
53	3	Biased	0.5997	0.598	-0.0017
54	3	Biased	0.6	0.5995	-0.0005
55	3	Unbiased	0.5995	0.6001	0.0006
56	3	Unbiased	0.6013	0.5959	-0.0054
57	3	Unbiased	0.6011	0.5977	-0.0034
58	3	Unbiased	0.6002	0.5991	-0.0011
59	3	Unbiased	0.5993	0.6004	0.0011
60	10	Biased	0.5998	0.5989	-0.0009
61	10	Biased	0.5998	0.5984	-0.0014
62	10	Biased	0.5997	0.5995	-0.0002
63	10	Biased	0.5998	0.599	-0.0008
64	10	Biased	0.5986	0.5978	-0.0008
65	10	Unbiased	0.5999	0.6	0.0001
66	10	Unbiased	0.6007	0.5996	-0.0011
67	10	Unbiased	0.5993	0.5983	-0.001
68	10	Unbiased	0.5999	0.5998	-0.0001
69	10	Unbiased	0.5994	0.5995	0.0001
100	20	Biased	0.6004	0.6	-0.0004
200	20	Biased	0.6005	0.6008	0.0003
300	20	Biased	0.5994	0.5988	-0.0006
400	20	Biased	0.6001	0.6002	0.0001
500	20	Biased	0.599	0.5985	-0.0005
600	20	Unbiased	0.6009	0.6011	0.0002
700	20	Unbiased	0.5996	0.5999	0.0003
800	20	Unbiased	0.5996	0.5997	0.0001
900	20	Unbiased	0.6001	0.6	-0.0001
1000	20	Unbiased	0.599	0.5987	-0.0003
1100	30	Biased	0.5995	0.5989	-0.0006
1200	30	Biased	0.5995	0.5994	-0.0001
1300	30	Biased	0.6001	0.5994	-0.0007
1400	30	Biased	0.5994	0.6001	0.0007
1500	30	Biased	0.5982	0.5976	-0.0006
1600	30	Unbiased	0.5989	0.5989	0
1700	30	Unbiased	0.6003	0.6002	-0.0001
1800	30	Unbiased	0.5995	0.5988	-0.0007
1900	30	Unbiased	0.6005	0.6015	0.001
2000	30	Unbiased	0.5991	0.5993	0.0002
2100	50	Biased-84Hr-Anneal	0.5997	0.6014	0.0017
2200	50	Biased-84Hr-Anneal	0.5986	0.599	0.0004
2300	50	Biased-84Hr-Anneal	0.5995	0.5983	-0.0012
2400	50	Biased-84Hr-Anneal	0.5994	0.6001	0.0007
2500	50	Biased-84Hr-Anneal	0.5993	0.5983	-0.001
2600	50	Unbiased	0.6007	0.6018	0.0011
2700	50	Unbiased	0.5995	0.6005	0.001
2800	50	Unbiased	0.5985	0.5989	0.0004
2900	50	Unbiased	0.6014	0.6006	-0.0008
3000	50	Unbiased	0.5996	0.5989	-0.0007
4000	100	Biased-168Hr-Anneal	0.5982	0.5966	-0.0016
4100	100	Biased-168Hr-Anneal	0.5982	0.5992	0.001
4200	100	Biased-168Hr-Anneal	0.5998	0.5991	-0.0007
4300	100	Biased-168Hr-Anneal	0.6005	0.6007	0.0002
4400	100	Biased-168Hr-Anneal	0.6002	0.6009	0.0007
4500	100	Unbiased-168Hr-Anneal	0.5987	0.599	0.0003
4600	100	Unbiased-168Hr-Anneal	0.5983	0.5982	-0.0001
4700	100	Unbiased-168Hr-Anneal	0.5988	0.5993	0.0005
4800	100	Unbiased-168Hr-Anneal	0.5996	0.5995	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5999	0.602	0.0021
9300	0	CORRELATION	0.6	0.6005	0.0005
9400	0	CORRELATION	0.5995	0.5993	-0.0002
9500	0	CORRELATION	0.5994	0.5995	0.0001
9600	0	CORRELATION	0.5986	0.5987	0.0001
9700	0	CORRELATION	0.5999	0.5998	-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	0.5986	0.59948	0.6	0.00055408	0.5987	0.59956	0.6005	0.00066182	-0.0002	8e-05	0.0005	0.00026833
3	0.5978	0.59981	0.6013	0.0010038	0.5959	0.59875	0.6004	0.0013109	-0.0054	-0.00106	0.0011	0.0020748
10	0.5986	0.59969	0.6007	0.00053427	0.5978	0.59908	0.6	0.00072541	-0.0014	-0.00061	0.0001	0.00053841
20	0.599	0.59986	0.6009	0.00064326	0.5985	0.59977	0.6011	0.00087184	-0.0006	-9e-05	0.0003	0.00033813
30	0.5982	0.5995	0.6005	0.00068475	0.5976	0.59941	0.6015	0.0010354	-0.0007	-9e-05	0.001	0.00059339
50	0.5985	0.59962	0.6014	0.00087025	0.5983	0.59978	0.6018	0.0012709	-0.0012	0.00016	0.0017	0.0010124
100	0.5982	0.59922	0.6005	0.00087661	0.5966	0.59945	0.602	0.0015006	-0.0016	0.00023	0.0021	0.00099001

Device Test: 17.26 LEVEL|STATIC/VSNSP/12////@VREF_INTERNAL





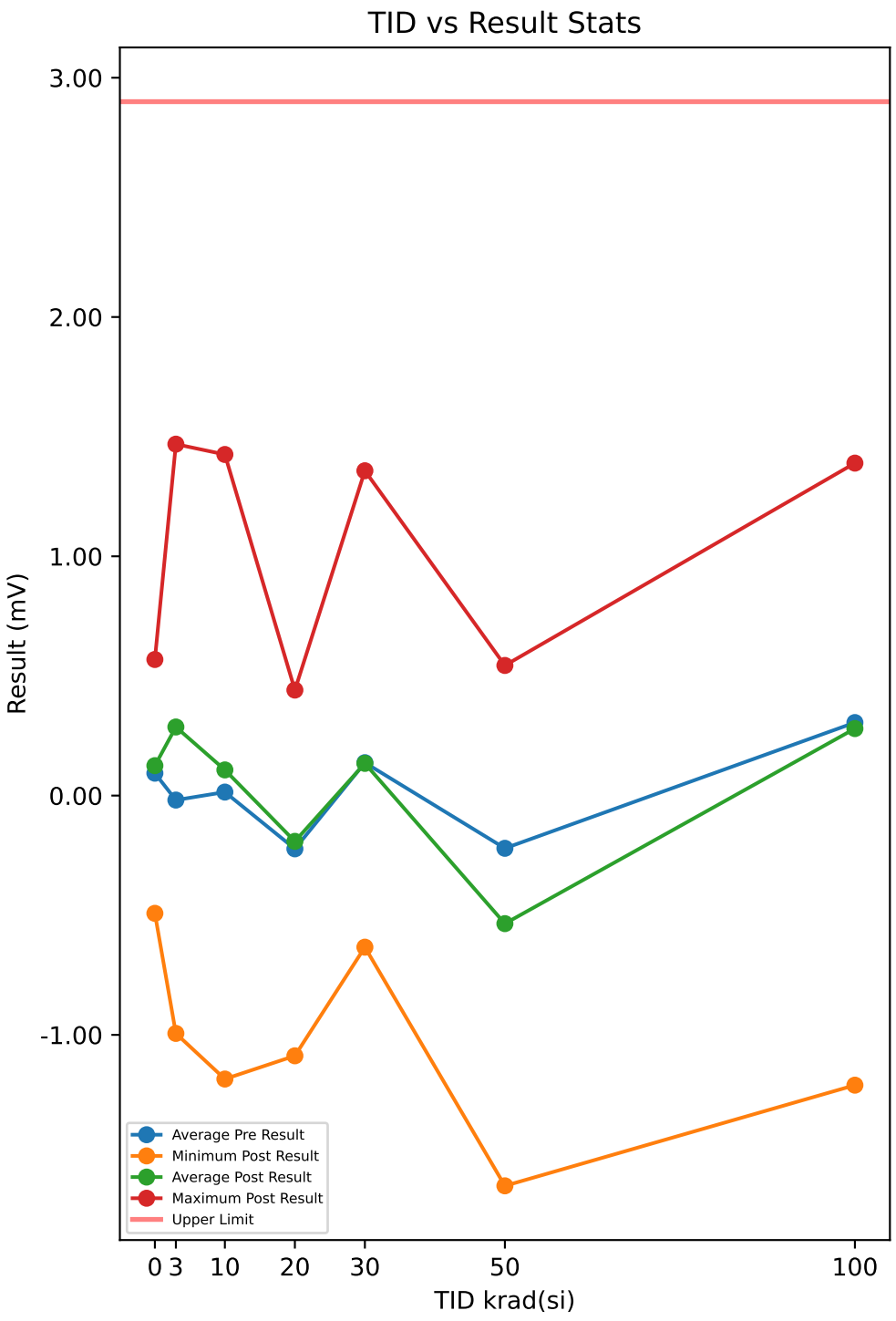
Test Results (Lower Limit = 0.593, Upper Limit = 0.606 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6001	0.5986	-0.0015
51	3	Biased	0.599	0.5994	0.0004
52	3	Biased	0.5978	0.5988	0.001
53	3	Biased	0.5996	0.5979	-0.0017
54	3	Biased	0.5999	0.5994	-0.0005
55	3	Unbiased	0.5995	0.6	0.0005
56	3	Unbiased	0.6012	0.5959	-0.0053
57	3	Unbiased	0.601	0.5976	-0.0034
58	3	Unbiased	0.6002	0.5991	-0.0011
59	3	Unbiased	0.5993	0.6003	0.001
60	10	Biased	0.5997	0.5989	-0.0008
61	10	Biased	0.5998	0.5983	-0.0015
62	10	Biased	0.5996	0.5994	-0.0002
63	10	Biased	0.5998	0.5989	-0.0009
64	10	Biased	0.5985	0.5978	-0.0007
65	10	Unbiased	0.5999	0.6	0.0001
66	10	Unbiased	0.6006	0.5995	-0.0011
67	10	Unbiased	0.5992	0.5983	-0.0009
68	10	Unbiased	0.5999	0.5997	-0.0002
69	10	Unbiased	0.5993	0.5995	0.0002
100	20	Biased	0.6003	0.6	-0.0003
200	20	Biased	0.6004	0.6007	0.0003
300	20	Biased	0.5993	0.5988	-0.0005
400	20	Biased	0.6	0.6001	0.0001
500	20	Biased	0.5989	0.5984	-0.0005
600	20	Unbiased	0.6008	0.6011	0.0003
700	20	Unbiased	0.5996	0.5999	0.0003
800	20	Unbiased	0.5995	0.5997	0.0002
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.599	0.5987	-0.0003
1100	30	Biased	0.5995	0.5989	-0.0006
1200	30	Biased	0.5994	0.5993	-0.0001
1300	30	Biased	0.6	0.5994	-0.0006
1400	30	Biased	0.5994	0.6001	0.0007
1500	30	Biased	0.5981	0.5976	-0.0005
1600	30	Unbiased	0.5989	0.5989	0
1700	30	Unbiased	0.6002	0.6001	-0.0001
1800	30	Unbiased	0.5994	0.5987	-0.0007
1900	30	Unbiased	0.6004	0.6014	0.001
2000	30	Unbiased	0.5991	0.5993	0.0002
2100	50	Biased-84Hr-Anneal	0.5996	0.6013	0.0017
2200	50	Biased-84Hr-Anneal	0.5986	0.599	0.0004
2300	50	Biased-84Hr-Anneal	0.5995	0.5983	-0.0012
2400	50	Biased-84Hr-Anneal	0.5994	0.6	0.0006
2500	50	Biased-84Hr-Anneal	0.5993	0.5983	-0.001
2600	50	Unbiased	0.6006	0.6018	0.0012
2700	50	Unbiased	0.5994	0.6005	0.0011
2800	50	Unbiased	0.5984	0.5988	0.0004
2900	50	Unbiased	0.6014	0.6005	-0.0009
3000	50	Unbiased	0.5995	0.5988	-0.0007
4000	100	Biased-168Hr-Anneal	0.5981	0.5966	-0.0015
4100	100	Biased-168Hr-Anneal	0.5982	0.5991	0.0009
4200	100	Biased-168Hr-Anneal	0.5998	0.5991	-0.0007
4300	100	Biased-168Hr-Anneal	0.6005	0.6007	0.0002
4400	100	Biased-168Hr-Anneal	0.6001	0.6009	0.0008
4500	100	Unbiased-168Hr-Anneal	0.5986	0.5989	0.0003
4600	100	Unbiased-168Hr-Anneal	0.5982	0.5982	0
4700	100	Unbiased-168Hr-Anneal	0.5988	0.5992	0.0004
4800	100	Unbiased-168Hr-Anneal	0.5995	0.5994	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5999	0.6019	0.002
9300	0	CORRELATION	0.5999	0.6005	0.0006
9400	0	CORRELATION	0.5994	0.5993	-0.0001
9500	0	CORRELATION	0.5994	0.5995	0.0001
9600	0	CORRELATION	0.5985	0.5987	0.0002
9700	0	CORRELATION	0.5998	0.5997	-0.0001

Test Statistics (V)

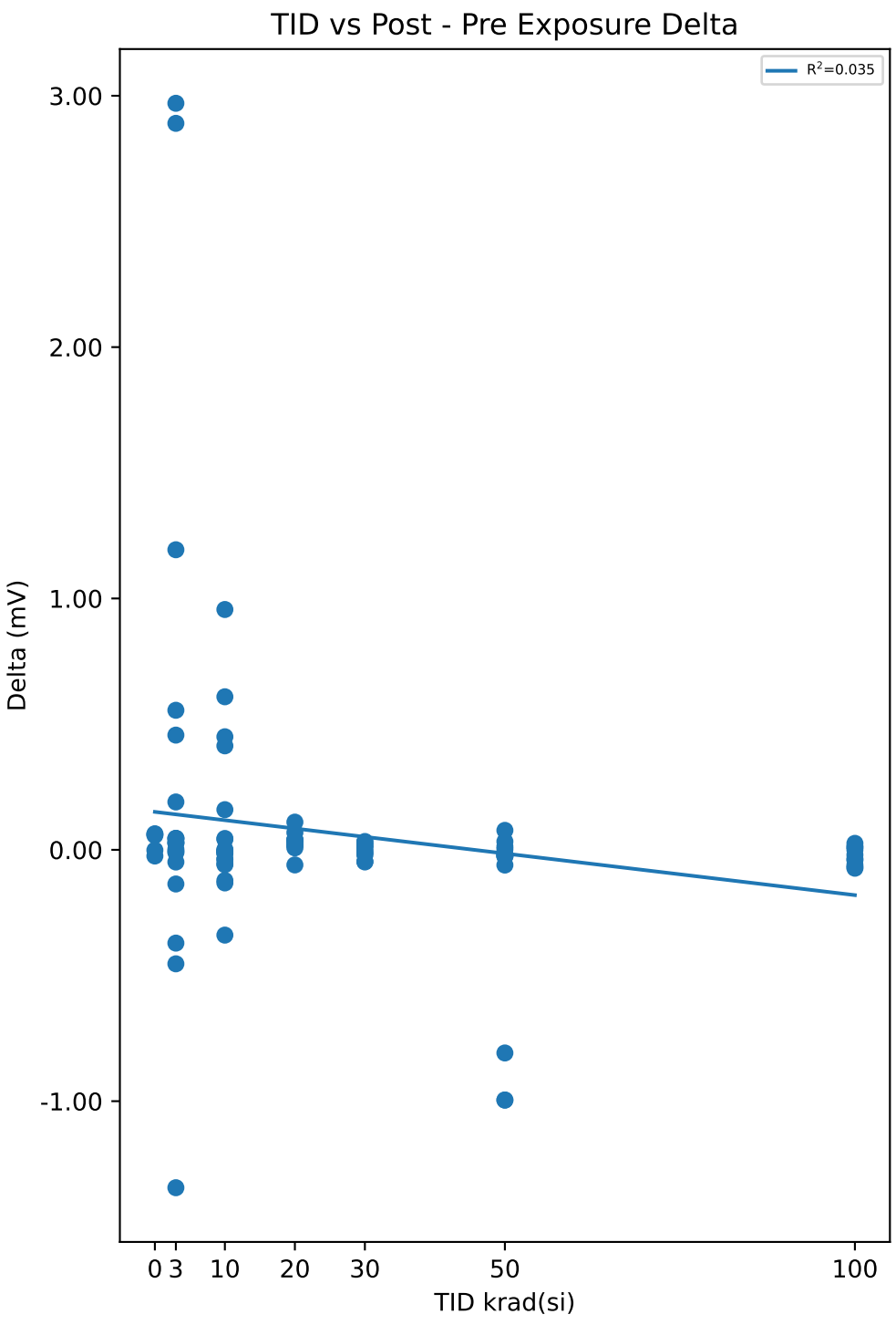
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5985	0.5994	0.5999	0.00055227	0.5987	0.59954	0.6005	0.00065422	-0.0001	0.00014	0.0006	0.0002881
3	0.5978	0.59976	0.6012	0.00098116	0.5959	0.5987	0.6003	0.0012953	-0.0053	-0.00106	0.001	0.0020392
10	0.5985	0.59963	0.6006	0.00054985	0.5978	0.59903	0.6	0.00071344	-0.0015	-0.0006	0.0002	0.00055176
20	0.5989	0.59978	0.6008	0.00062503	0.5984	0.59974	0.6011	0.00087076	-0.0005	-4e-05	0.0003	0.00033066
30	0.5981	0.59944	0.6004	0.00066866	0.5976	0.59937	0.6014	0.0010122	-0.0007	-7e-05	0.001	0.00057359
50	0.5984	0.59957	0.6014	0.00087312	0.5983	0.59973	0.6018	0.0012632	-0.0012	0.00016	0.0017	0.0010384
100	0.5981	0.59917	0.6005	0.000892	0.5966	0.5994	0.6019	0.0014885	-0.0015	0.00023	0.002	0.00094051

Device Test: 17.27 LEVEL|STATIC/VSNSP/12////@EA_INPUT_OFFSET_V



Test Results (Upper Limit = 2.9 (mV))

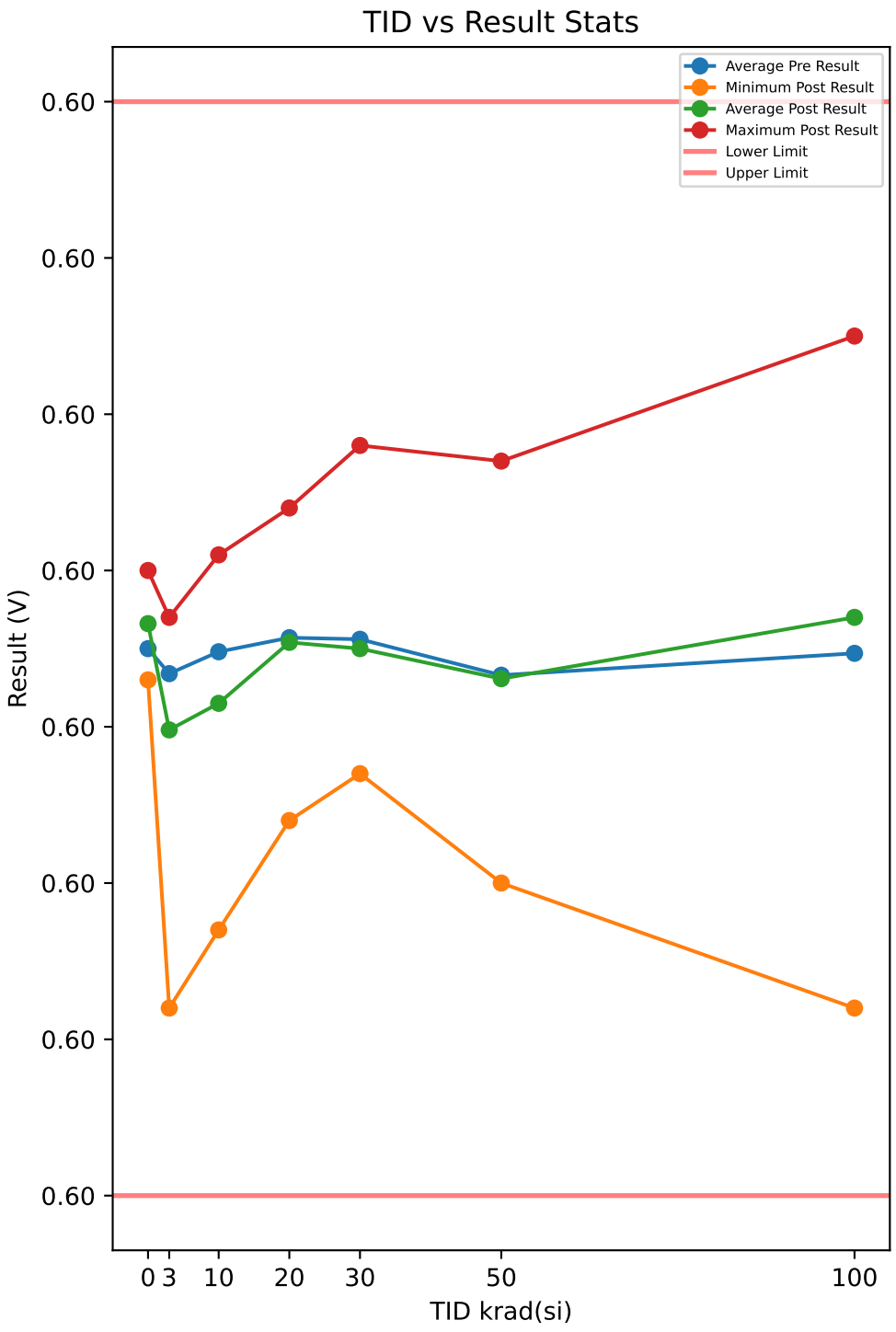
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.5507	0.6431	1.1938
51	3	Biased	0.3503	-0.994	-1.3443
52	3	Biased	0.8317	0.4606	-0.3711
53	3	Biased	0.5174	0.7078	0.1904
54	3	Biased	-0.0993	0.3571	0.4564
55	3	Unbiased	-0.4823	-0.6182	-0.1359
56	3	Unbiased	-1.6348	1.2555	2.8903
57	3	Unbiased	-1.5014	1.4687	2.9701
58	3	Unbiased	-0.2044	0.3508	0.5552
59	3	Unbiased	-0.3113	-0.7648	-0.4535
60	10	Biased	0.1695	0.0378	-0.1317
61	10	Biased	0.2045	0.3643	0.1598
62	10	Biased	0.3451	0.3396	-0.0055
63	10	Biased	0.2282	0.678	0.4498
64	10	Biased	0.0323	-0.0897	-0.122
65	10	Unbiased	-0.5458	-0.1321	0.4137
66	10	Unbiased	-0.8453	-1.1846	-0.3393
67	10	Unbiased	0.4694	1.4255	0.9561
68	10	Unbiased	-0.8561	-0.9111	-0.055
69	10	Unbiased	-0.0638	0.5451	0.6089
100	20	Biased	-0.5279	-0.4866	0.0413
200	20	Biased	-0.4849	-0.3747	0.1102
300	20	Biased	-0.0919	-0.0729	0.019
400	20	Biased	-0.4713	-0.4636	0.0077
500	20	Biased	0.0294	-0.0307	-0.0601
600	20	Unbiased	-1.1239	-1.0875	0.0364
700	20	Unbiased	0.4228	0.4409	0.0181
800	20	Unbiased	-0.3171	-0.2485	0.0686
900	20	Unbiased	0.0309	0.0712	0.0403
1000	20	Unbiased	0.3083	0.3393	0.031
1100	30	Biased	-0.0443	-0.0285	0.0158
1200	30	Biased	0.3784	0.4093	0.0309
1300	30	Biased	-0.2761	-0.2575	0.0186
1400	30	Biased	-0.147	-0.1139	0.0331
1500	30	Biased	1.3699	1.3575	-0.0124
1600	30	Unbiased	0.2637	0.258	-0.0057
1700	30	Unbiased	-0.2856	-0.3321	-0.0465
1800	30	Unbiased	-0.0747	-0.0689	0.0058
1900	30	Unbiased	-0.613	-0.6335	-0.0205
2000	30	Unbiased	0.8036	0.7554	-0.0482
2100	50	Biased-84Hr-Anneal	-0.6354	-1.6309	-0.9955
2200	50	Biased-84Hr-Anneal	0.6807	-0.1275	-0.8082
2300	50	Biased-84Hr-Anneal	-0.2744	-0.2716	0.0028
2400	50	Biased-84Hr-Anneal	-0.456	-0.4794	-0.0234
2500	50	Biased-84Hr-Anneal	0.4664	0.5438	0.0774
2600	50	Unbiased	-1.3293	-1.2961	0.0332
2700	50	Unbiased	0.2865	0.2259	-0.0606
2800	50	Unbiased	0.5195	0.5326	0.0131
2900	50	Unbiased	-1.1601	-1.1791	-0.019
3000	50	Unbiased	-0.301	-0.3208	-0.0198
4000	100	Biased-168Hr-Anneal	0.6536	0.6175	-0.0361
4100	100	Biased-168Hr-Anneal	0.9136	0.8443	-0.0693
4200	100	Biased-168Hr-Anneal	-0.4383	-0.427	0.0113
4300	100	Biased-168Hr-Anneal	-1.1899	-1.2102	-0.0203
4400	100	Biased-168Hr-Anneal	-0.0265	-0.0153	0.0112
4500	100	Unbiased-168Hr-Anneal	1.3637	1.3894	0.0257
4600	100	Unbiased-168Hr-Anneal	1.0789	1.0057	-0.0732
4700	100	Unbiased-168Hr-Anneal	0.6862	0.6864	0.0002
4800	100	Unbiased-168Hr-Anneal	0.3655	0.305	-0.0605
4900	100	Unbiased-168Hr-Anneal	-0.355	-0.3958	-0.0408
9300	0	CORRELATION	-0.4675	-0.4921	-0.0246
9400	0	CORRELATION	-0.0681	-0.0042	0.0639
9500	0	CORRELATION	0.4836	0.4823	-0.0013
9600	0	CORRELATION	0.5111	0.5687	0.0576
9700	0	CORRELATION	0.0088	0.0705	0.0617



Test Statistics (mV)

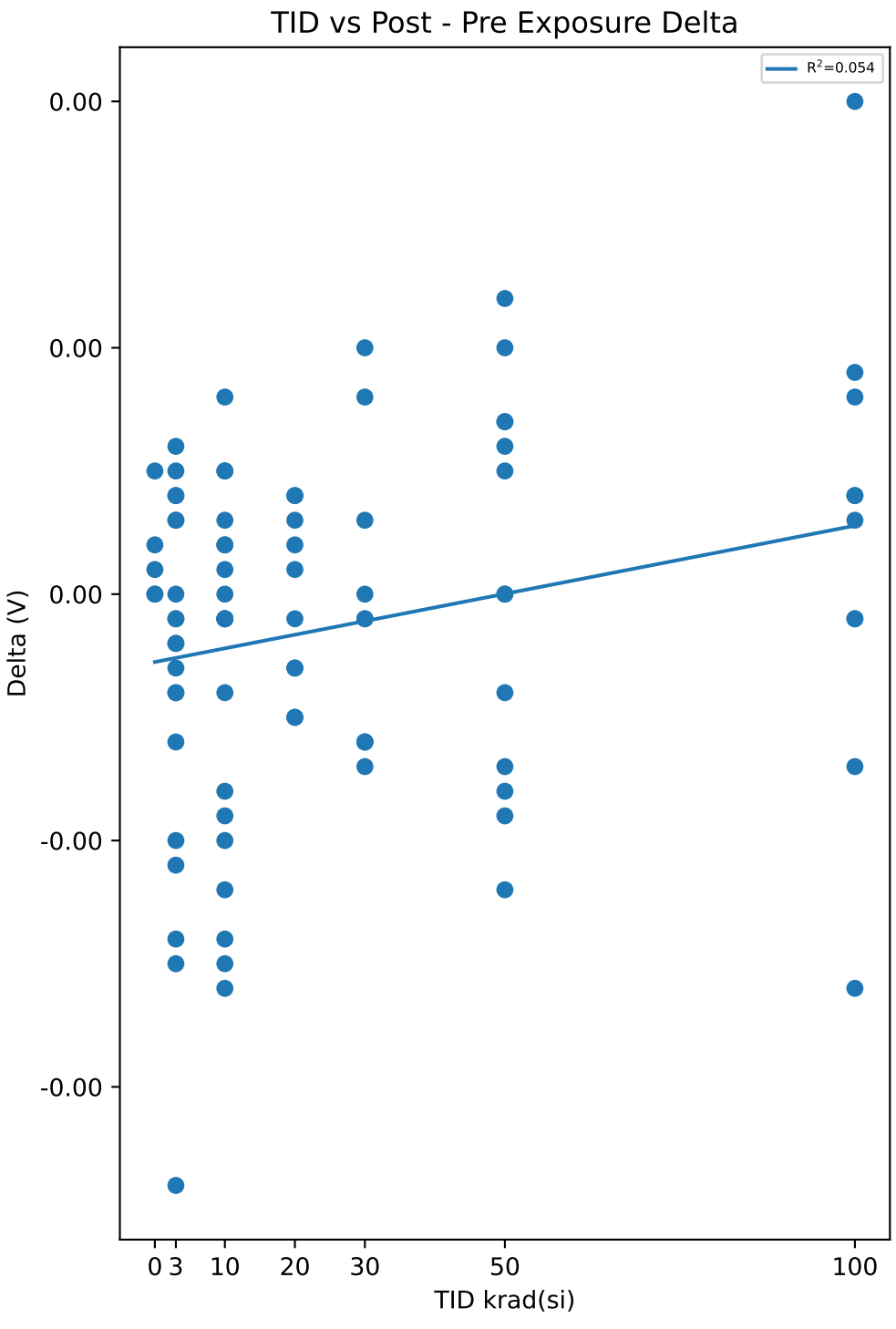
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.4675	0.09358	0.5111	0.41066	-0.4921	0.12504	0.5687	0.42574	-0.0246	0.03146	0.0639	0.041431
3	-1.6348	-0.30848	0.8317	0.79873	-0.994	0.28666	1.4687	0.83294	-1.3443	0.59514	2.9701	1.4056
10	-0.8561	-0.0862	0.4694	0.48742	-1.1846	0.10728	1.4255	0.75881	-0.3393	0.19348	0.9561	0.40276
20	-1.1239	-0.22256	0.4228	0.45806	-1.0875	-0.19131	0.4409	0.44614	-0.0601	0.03125	0.1102	0.043538
30	-0.613	0.13749	1.3699	0.58773	-0.6335	0.13458	1.3575	0.58337	-0.0482	-0.00291	0.0331	0.029225
50	-1.3293	-0.22031	0.6807	0.70221	-1.6309	-0.40031	0.5438	0.7587	-0.9955	-0.18	0.0774	0.38477
100	-1.1899	0.30518	1.3637	0.79536	-1.2102	0.28	1.3894	0.79022	-0.0732	-0.02518	0.0257	0.03617

Device Test: 17.28 LEVEL|STATIC/SS_TR/12////@VREF_25C



Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

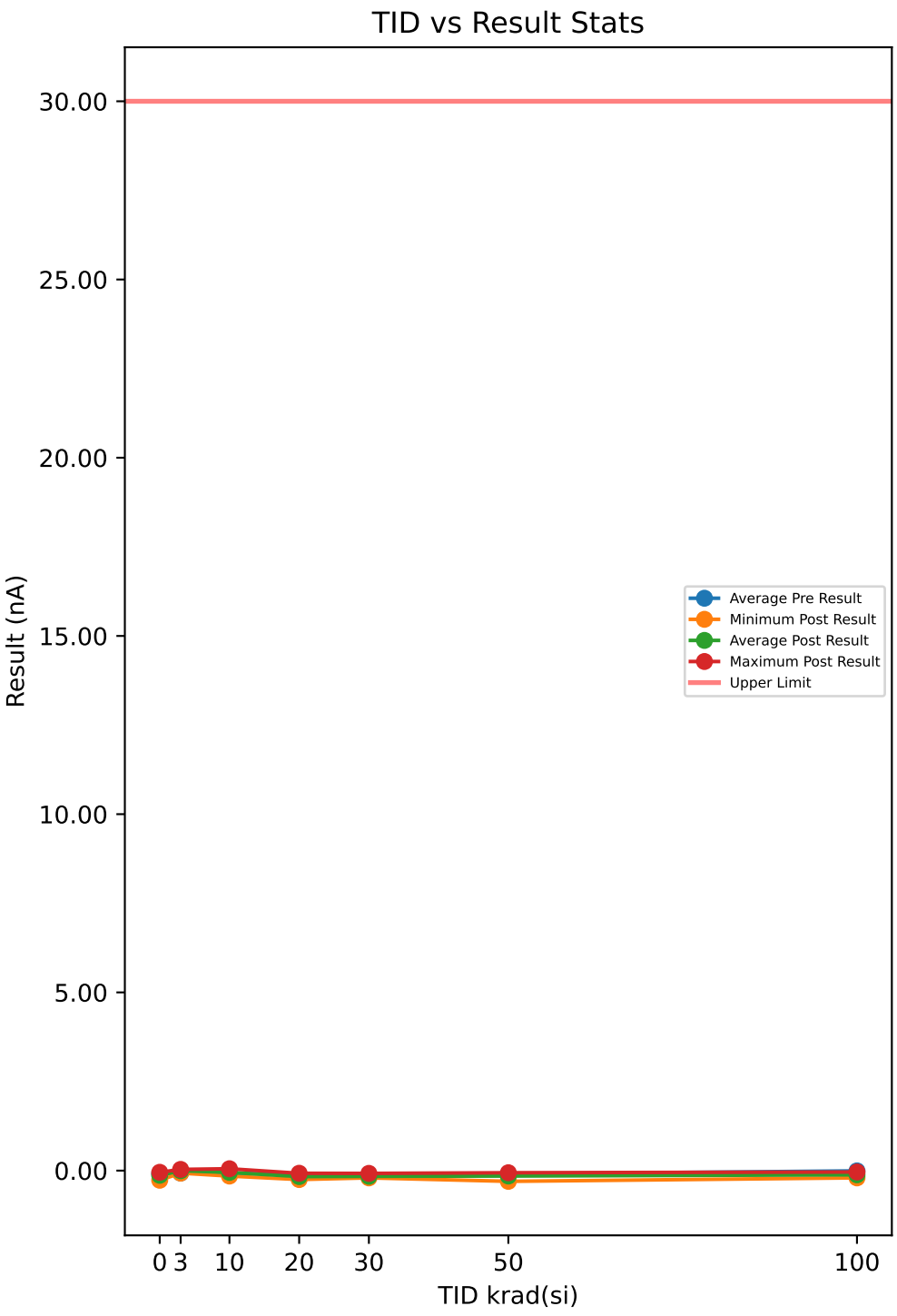
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5995	0.5992	-0.0003
51	3	Biased	0.5994	0.5984	-0.001
52	3	Biased	0.5986	0.5992	0.0006
53	3	Biased	0.6001	0.5986	-0.0015
54	3	Biased	0.5998	0.5997	-0.0001
55	3	Unbiased	0.599	0.5994	0.0004
56	3	Unbiased	0.5996	0.5972	-0.0024
57	3	Unbiased	0.5995	0.5991	-0.0004
58	3	Unbiased	0.5999	0.5995	-0.0004
59	3	Unbiased	0.599	0.5995	0.0005
60	10	Biased	0.5999	0.5989	-0.001
61	10	Biased	0.5999	0.5987	-0.0012
62	10	Biased	0.5999	0.5998	-0.0001
63	10	Biased	0.6	0.5996	-0.0004
64	10	Biased	0.5985	0.5977	-0.0008
65	10	Unbiased	0.5993	0.5998	0.0005
66	10	Unbiased	0.5998	0.5983	-0.0015
67	10	Unbiased	0.5997	0.5997	0
68	10	Unbiased	0.599	0.5989	-0.0001
69	10	Unbiased	0.5993	0.6001	0.0008
100	20	Biased	0.5998	0.5995	-0.0003
200	20	Biased	0.5999	0.6003	0.0004
300	20	Biased	0.5992	0.5987	-0.0005
400	20	Biased	0.5996	0.5997	0.0001
500	20	Biased	0.5989	0.5984	-0.0005
600	20	Unbiased	0.5997	0.6	0.0003
700	20	Unbiased	0.6	0.6004	0.0004
800	20	Unbiased	0.5992	0.5994	0.0002
900	20	Unbiased	0.6001	0.6	-0.0001
1000	20	Unbiased	0.5993	0.599	-0.0003
1100	30	Biased	0.5995	0.5988	-0.0007
1200	30	Biased	0.5998	0.5997	-0.0001
1300	30	Biased	0.5997	0.5991	-0.0006
1400	30	Biased	0.5992	0.6	0.0008
1500	30	Biased	0.5995	0.5989	-0.0006
1600	30	Unbiased	0.5991	0.5991	0
1700	30	Unbiased	0.5999	0.5998	-0.0001
1800	30	Unbiased	0.5993	0.5987	-0.0006
1900	30	Unbiased	0.5998	0.6008	0.001
2000	30	Unbiased	0.5998	0.6001	0.0003
2100	50	Biased-84Hr-Anneal	0.599	0.5997	0.0007
2200	50	Biased-84Hr-Anneal	0.5992	0.5988	-0.0004
2300	50	Biased-84Hr-Anneal	0.5992	0.598	-0.0012
2400	50	Biased-84Hr-Anneal	0.5989	0.5995	0.0006
2500	50	Biased-84Hr-Anneal	0.5997	0.5988	-0.0009
2600	50	Unbiased	0.5993	0.6005	0.0012
2700	50	Unbiased	0.5997	0.6007	0.001
2800	50	Unbiased	0.5989	0.5994	0.0005
2900	50	Unbiased	0.6002	0.5994	-0.0008
3000	50	Unbiased	0.5992	0.5985	-0.0007
4000	100	Biased-168Hr-Anneal	0.5988	0.5972	-0.0016
4100	100	Biased-168Hr-Anneal	0.5991	0.6	0.0009
4200	100	Biased-168Hr-Anneal	0.5993	0.5986	-0.0007
4300	100	Biased-168Hr-Anneal	0.5992	0.5995	0.0003
4400	100	Biased-168Hr-Anneal	0.6001	0.6009	0.0008
4500	100	Unbiased-168Hr-Anneal	0.6	0.6004	0.0004
4600	100	Unbiased-168Hr-Anneal	0.5993	0.5992	-0.0001
4700	100	Unbiased-168Hr-Anneal	0.5995	0.5999	0.0004
4800	100	Unbiased-168Hr-Anneal	0.5999	0.5998	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5995	0.6015	0.002
9300	0	CORRELATION	0.5995	0.6	0.0005
9400	0	CORRELATION	0.5993	0.5993	0
9500	0	CORRELATION	0.5998	0.5999	0.0001
9600	0	CORRELATION	0.5991	0.5993	0.0002
9700	0	CORRELATION	0.5998	0.5998	0



Test Statistics (V)

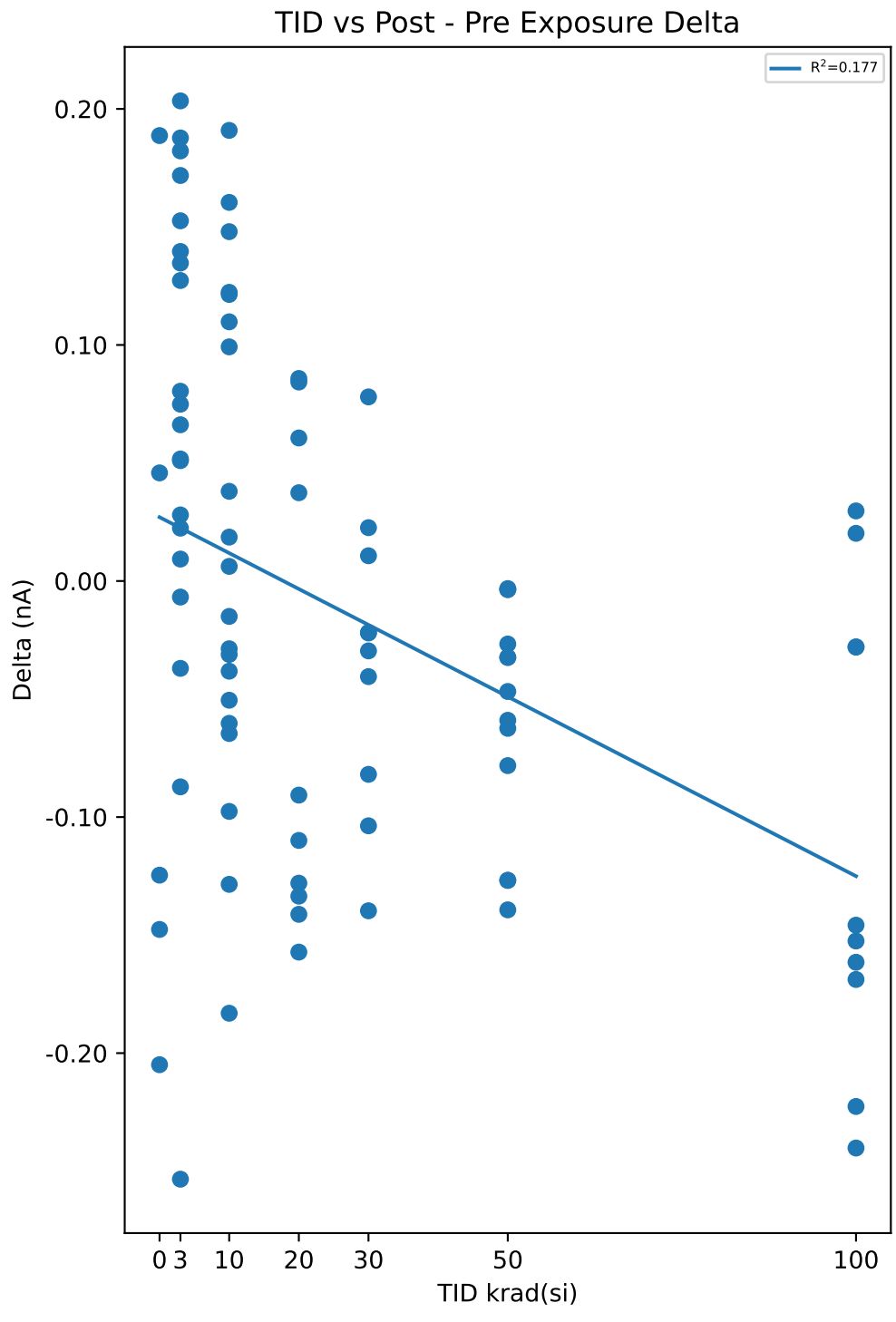
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5991	0.5995	0.5998	0.00030822	0.5993	0.59966	0.6	0.00033615	0	0.00016	0.0005	0.00020736
3	0.5986	0.59944	0.6001	0.00045995	0.5972	0.59898	0.5997	0.00074506	-0.0024	-0.00046	0.0006	0.00094775
10	0.5985	0.59953	0.6	0.00049227	0.5977	0.59915	0.6001	0.00077496	-0.0015	-0.00038	0.0008	0.00074207
20	0.5989	0.59957	0.6001	0.00040014	0.5984	0.59954	0.6004	0.00067363	-0.0005	-3e-05	0.0004	0.00035606
30	0.5991	0.59956	0.5999	0.00028363	0.5987	0.5995	0.6008	0.00068638	-0.0007	-6e-05	0.001	0.00060406
50	0.5989	0.59933	0.6002	0.00041647	0.598	0.59933	0.6007	0.00084597	-0.0012	3.3307e-17	0.0012	0.00088694
100	0.5988	0.59947	0.6001	0.00041913	0.5972	0.5997	0.6015	0.0012046	-0.0016	0.00023	0.002	0.00096615

Device Test: 17.29 LEAK|POWERED/VSNSP/12////@VSNSP_LKG_CURR_0P6V



Test Results (Upper Limit = 30.0 (nA))

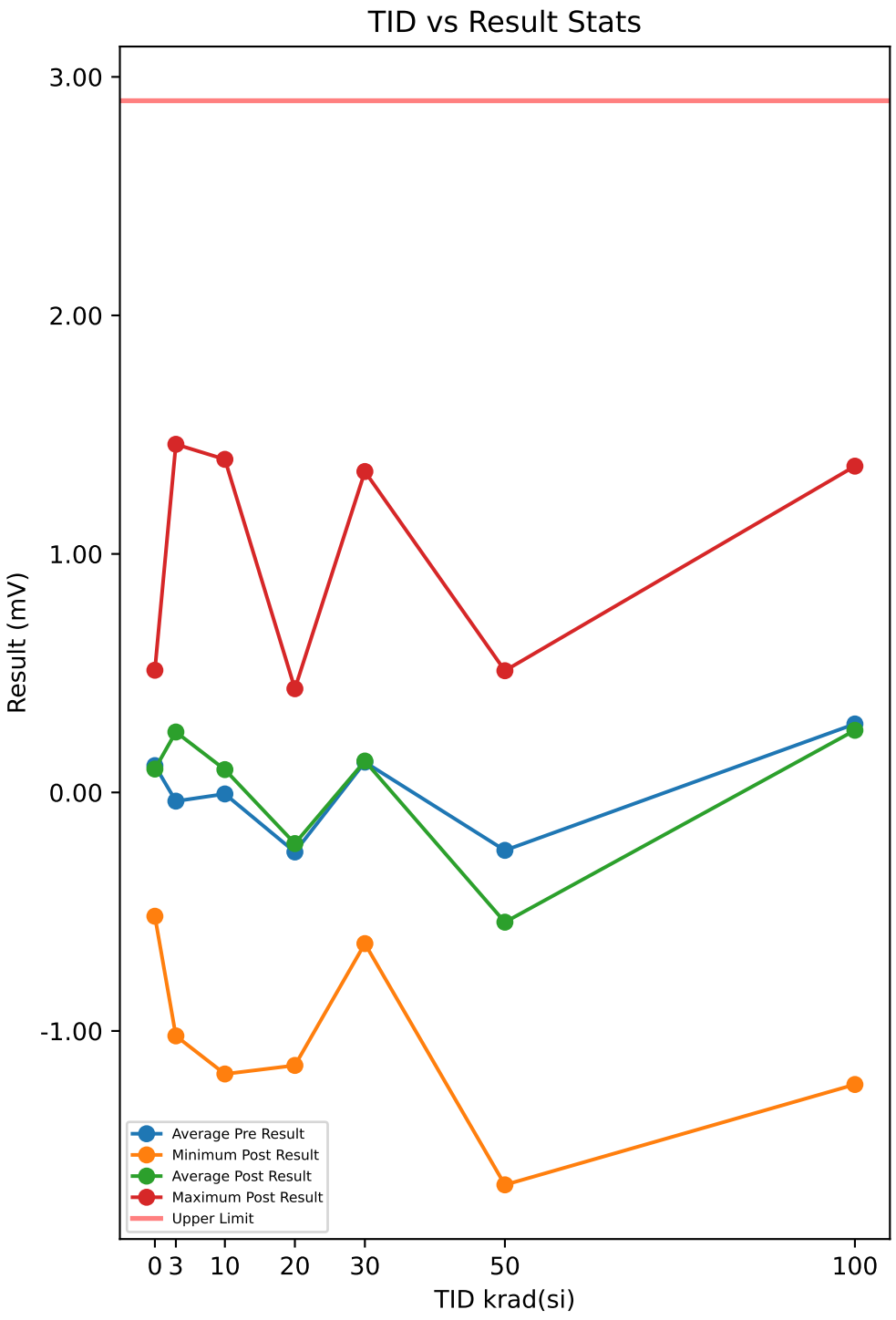
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.1792	0.0242	0.2034
51	3	Biased	-0.1217	-0.07	0.0517
52	3	Biased	-0.1349	-0.0687	0.0662
53	3	Biased	-0.1918	-0.0096	0.1822
54	3	Biased	-0.1542	0.0335	0.1877
55	3	Unbiased	-0.1466	0.006	0.1526
56	3	Unbiased	-0.113	0.0143	0.1273
57	3	Unbiased	-0.1981	-0.0263	0.1718
58	3	Unbiased	-0.1012	0.0335	0.1347
59	3	Unbiased	-0.1061	0.0335	0.1396
60	10	Biased	-0.06	-0.0887	-0.0287
61	10	Biased	-0.17	-0.0096	0.1604
62	10	Biased	-0.1386	0.0523	0.1909
63	10	Biased	-0.1029	0.0185	0.1214
64	10	Biased	-0.1286	-0.0294	0.0992
65	10	Unbiased	-0.1512	-0.0289	0.1223
66	10	Unbiased	-0.1448	-0.1262	0.0186
67	10	Unbiased	-0.0031	-0.1007	-0.0976
68	10	Unbiased	-0.0881	-0.1527	-0.0646
69	10	Unbiased	-0.1887	-0.0407	0.148
100	20	Biased	-0.0346	-0.1918	-0.1572
200	20	Biased	-0.1292	-0.2199	-0.0907
300	20	Biased	-0.131	-0.0936	0.0374
400	20	Biased	-0.0381	-0.1661	-0.128
500	20	Biased	-0.1856	-0.1013	0.0843
600	20	Unbiased	-0.1355	-0.0749	0.0606
700	20	Unbiased	-0.1061	-0.216	-0.1099
800	20	Unbiased	-0.0787	-0.2199	-0.1412
900	20	Unbiased	-0.2262	-0.1404	0.0858
1000	20	Unbiased	-0.1168	-0.2503	-0.1335
1100	30	Biased	-0.131	-0.1606	-0.0296
1200	30	Biased	-0.0225	-0.1622	-0.1397
1300	30	Biased	-0.223	-0.2004	0.0226
1400	30	Biased	-0.1698	-0.1918	-0.022
1500	30	Biased	-0.1217	-0.1435	-0.0218
1600	30	Unbiased	-0.163	-0.2035	-0.0405
1700	30	Unbiased	-0.1606	-0.0826	0.078
1800	30	Unbiased	-0.0887	-0.078	0.0107
1900	30	Unbiased	-0.0842	-0.1879	-0.1037
2000	30	Unbiased	-0.1068	-0.1887	-0.0819
2100	50	Biased-84Hr-Anneal	-0.0931	-0.0967	-0.0036
2200	50	Biased-84Hr-Anneal	-0.1743	-0.2066	-0.0323
2300	50	Biased-84Hr-Anneal	-0.0338	-0.0662	-0.0324
2400	50	Biased-84Hr-Anneal	-0.1618	-0.3011	-0.1393
2500	50	Biased-84Hr-Anneal	-0.0346	-0.0936	-0.059
2600	50	Unbiased	-0.1448	-0.223	-0.0782
2700	50	Unbiased	-0.0811	-0.1279	-0.0468
2800	50	Unbiased	0.0024	-0.06	-0.0624
2900	50	Unbiased	-0.1824	-0.1856	-0.0032
3000	50	Unbiased	-0.0544	-0.0811	-0.0267
4000	100	Biased-168Hr-Anneal	0.0932	-0.0756	-0.1688
4100	100	Biased-168Hr-Anneal	-0.0109	-0.0389	-0.028
4200	100	Biased-168Hr-Anneal	-0.0952	-0.1231	-0.0279
4300	100	Biased-168Hr-Anneal	-0.0202	-0.1817	-0.1615
4400	100	Biased-168Hr-Anneal	0.1057	-0.0468	-0.1525
4500	100	Unbiased-168Hr-Anneal	-0.0577	-0.2035	-0.1458
4600	100	Unbiased-168Hr-Anneal	-0.1169	-0.0967	0.0202
4700	100	Unbiased-168Hr-Anneal	-0.0983	-0.0686	0.0297
4800	100	Unbiased-168Hr-Anneal	0.0807	-0.1419	-0.2226
4900	100	Unbiased-168Hr-Anneal	0.0421	-0.1981	-0.2402
9300	0	CORRELATION	-0.2667	-0.078	0.1887
9400	0	CORRELATION	-0.0403	-0.1879	-0.1476
9500	0	CORRELATION	-0.065	-0.2699	-0.2049
9600	0	CORRELATION	0.0497	-0.0749	-0.1246
9700	0	CORRELATION	-0.0933	-0.0475	0.0458

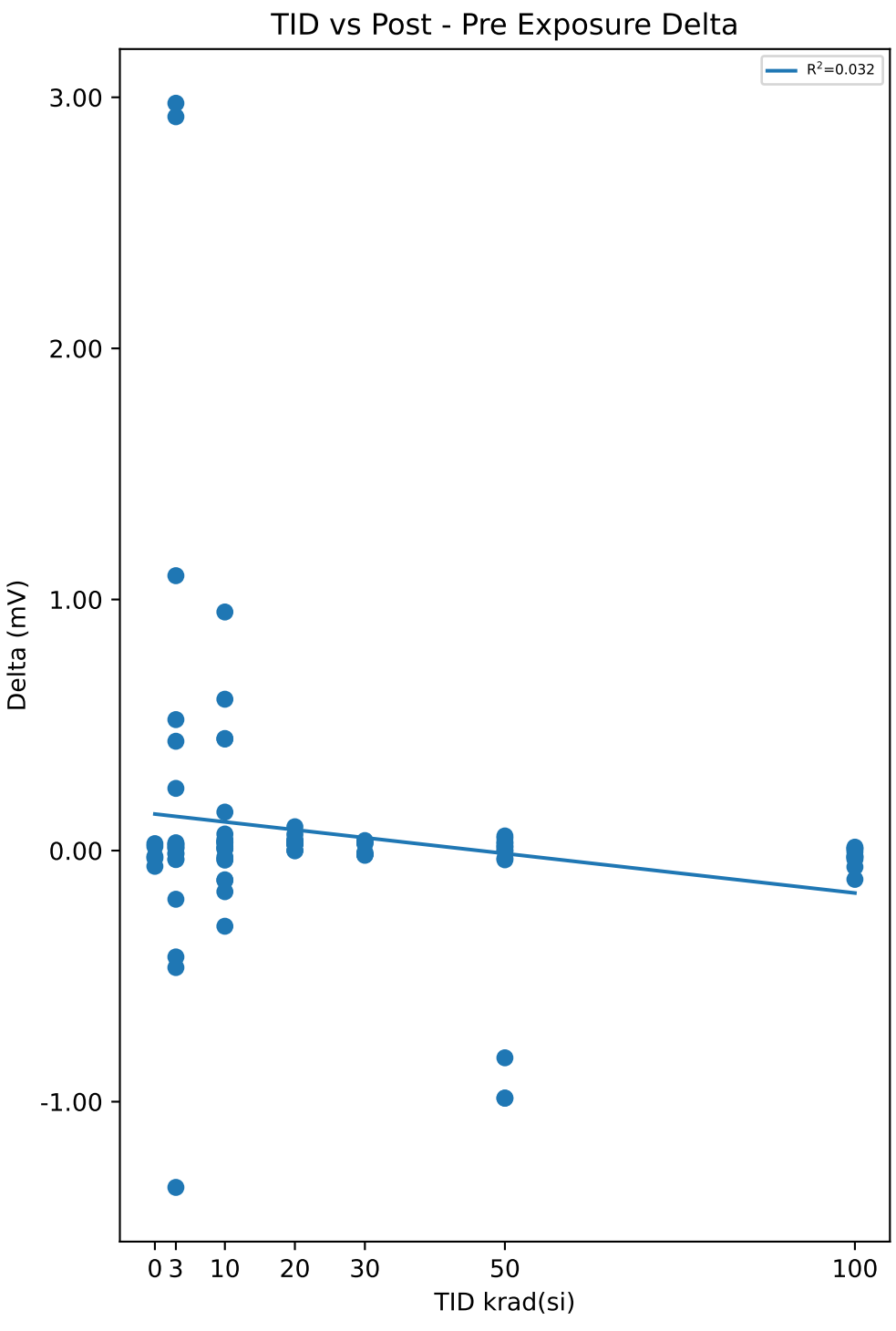


Test Statistics (nA)

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	-0.2667	-0.08312	0.0497	0.11577	-0.2699	-0.13164	-0.0475	0.09415	-0.2049	-0.04852	0.1887	0.1622
3	-0.1981	-0.14468	-0.1012	0.035537	-0.07	-0.00296	0.0335	0.040151	0.0517	0.14172	0.2034	0.050165
10	-0.1887	-0.1176	-0.0031	0.055524	-0.1527	-0.05061	0.0523	0.065119	-0.0976	0.06699	0.1909	0.10198
20	-0.2262	-0.11818	-0.0346	0.059539	-0.2503	-0.16742	-0.0749	0.061864	-0.1572	-0.04924	0.0858	0.10244
30	-0.223	-0.12713	-0.0225	0.05592	-0.2035	-0.15992	-0.078	0.046104	-0.1397	-0.03279	0.078	0.063605
50	-0.1824	-0.09579	0.0024	0.066323	-0.3011	-0.14418	-0.06	0.080741	-0.1393	-0.04839	-0.0032	0.040136
100	-0.1169	-0.00775	0.1057	0.084189	-0.2035	-0.11749	-0.0389	0.061821	-0.2402	-0.10974	0.0297	0.099309

Device Test: 17.3 LEVEL|STATIC/VSNSP/4.5////@EA_INPUT_OFFSET_V





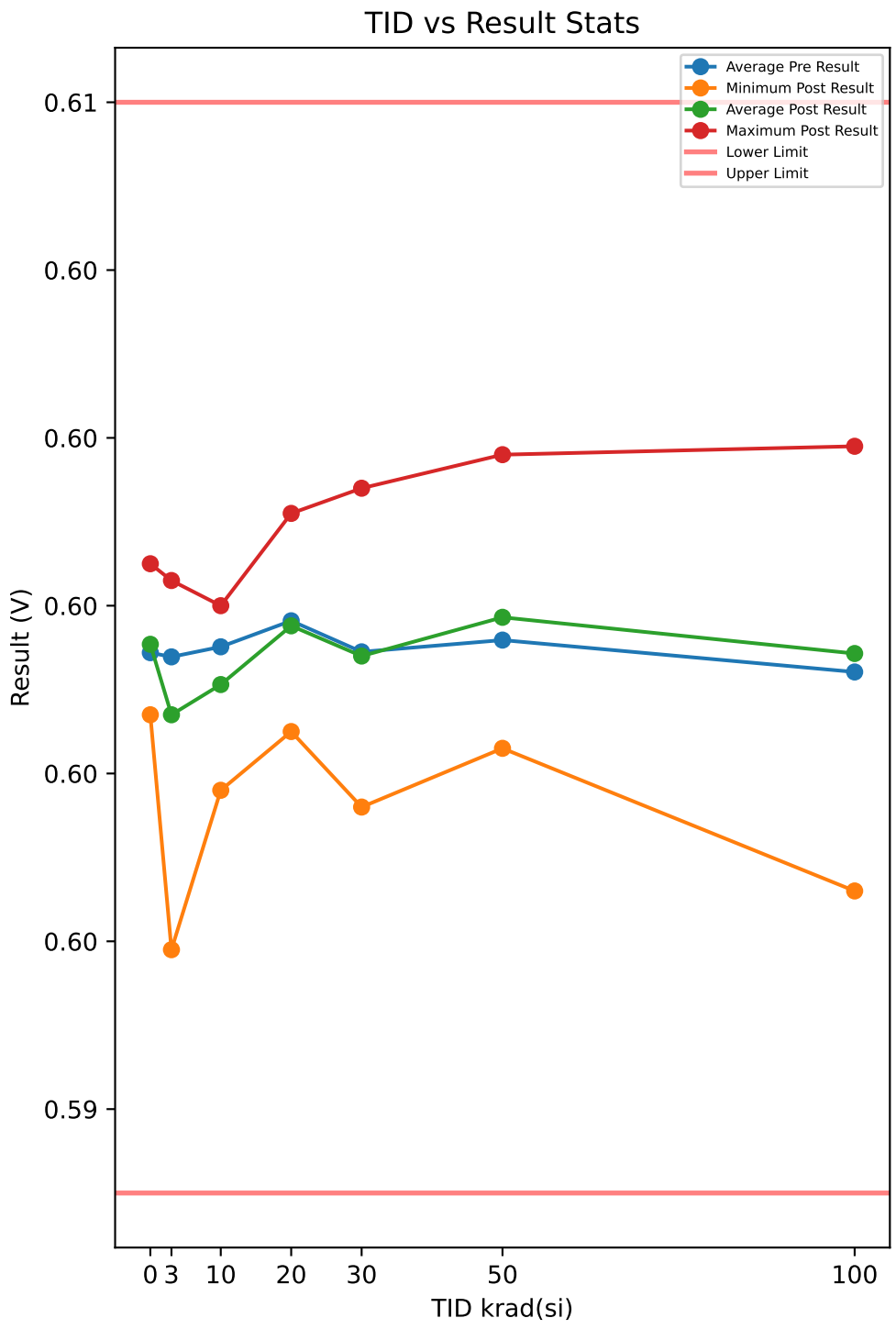
Test Results (Upper Limit = 2.9 (mV))

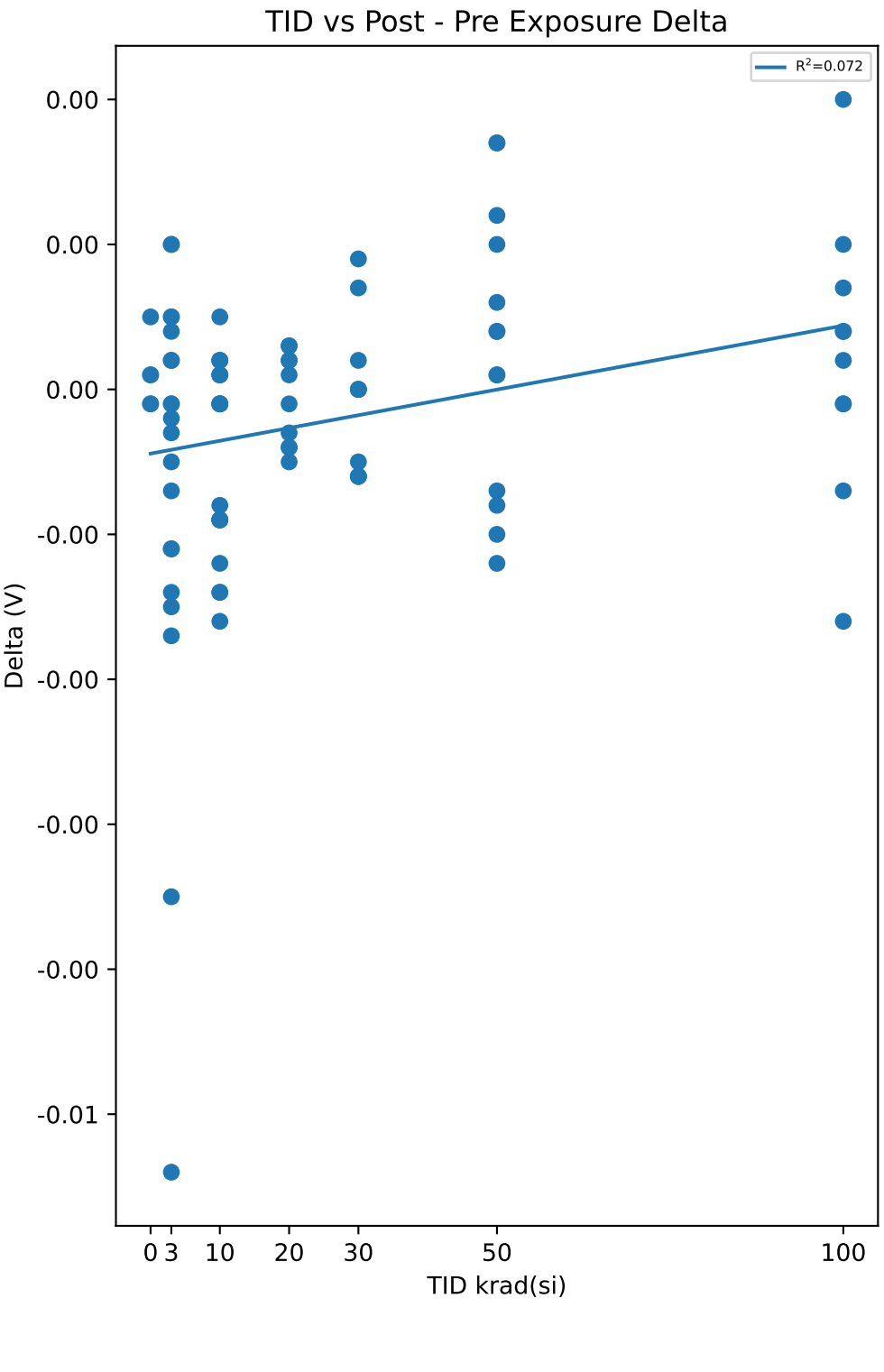
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.546	0.5488	1.0948
51	3	Biased	0.3206	-1.0208	-1.3414
52	3	Biased	0.8142	0.3906	-0.4236
53	3	Biased	0.4818	0.7295	0.2477
54	3	Biased	-0.1165	0.3189	0.4354
55	3	Unbiased	-0.4852	-0.679	-0.1938
56	3	Unbiased	-1.6436	1.279	2.9226
57	3	Unbiased	-1.5167	1.4596	2.9763
58	3	Unbiased	-0.2217	0.2999	0.5216
59	3	Unbiased	-0.3271	-0.7929	-0.4658
60	10	Biased	0.1642	0.0005	-0.1637
61	10	Biased	0.221	0.3743	0.1533
62	10	Biased	0.3197	0.364	0.0443
63	10	Biased	0.2257	0.6699	0.4442
64	10	Biased	0.0109	-0.1055	-0.1164
65	10	Unbiased	-0.577	-0.1307	0.4463
66	10	Unbiased	-0.8791	-1.1804	-0.3013
67	10	Unbiased	0.4463	1.3965	0.9502
68	10	Unbiased	-0.9307	-0.9557	-0.025
69	10	Unbiased	-0.0784	0.5244	0.6028
100	20	Biased	-0.5349	-0.4945	0.0404
200	20	Biased	-0.5159	-0.421	0.0949
300	20	Biased	-0.1311	-0.1063	0.0248
400	20	Biased	-0.5042	-0.4614	0.0428
500	20	Biased	-0.0292	-0.0285	0.0007
600	20	Unbiased	-1.1437	-1.1446	-0.0009
700	20	Unbiased	0.4103	0.4348	0.0245
800	20	Unbiased	-0.3412	-0.2771	0.0641
900	20	Unbiased	0.0127	0.0401	0.0274
1000	20	Unbiased	0.2803	0.3145	0.0342
1100	30	Biased	-0.0357	-0.0504	-0.0147
1200	30	Biased	0.3612	0.3425	-0.0187
1300	30	Biased	-0.2977	-0.2637	0.034
1400	30	Biased	-0.1594	-0.1196	0.0398
1500	30	Biased	1.3595	1.3455	-0.014
1600	30	Unbiased	0.2707	0.2556	-0.0151
1700	30	Unbiased	-0.3168	-0.2899	0.0269
1800	30	Unbiased	-0.0742	-0.0428	0.0314
1900	30	Unbiased	-0.6171	-0.6338	-0.0167
2000	30	Unbiased	0.78	0.773	-0.007
2100	50	Biased-84Hr-Anneal	-0.6593	-1.6452	-0.9859
2200	50	Biased-84Hr-Anneal	0.6798	-0.1455	-0.8253
2300	50	Biased-84Hr-Anneal	-0.3053	-0.3057	-0.0004
2400	50	Biased-84Hr-Anneal	-0.5028	-0.4538	0.049
2500	50	Biased-84Hr-Anneal	0.452	0.4802	0.0282
2600	50	Unbiased	-1.3466	-1.2884	0.0582
2700	50	Unbiased	0.2547	0.218	-0.0367
2800	50	Unbiased	0.4762	0.5103	0.0341
2900	50	Unbiased	-1.1781	-1.209	-0.0309
3000	50	Unbiased	-0.2993	-0.2992	0.0001
4000	100	Biased-168Hr-Anneal	0.6211	0.599	-0.0221
4100	100	Biased-168Hr-Anneal	0.8727	0.8492	-0.0235
4200	100	Biased-168Hr-Anneal	-0.4573	-0.4519	0.0054
4300	100	Biased-168Hr-Anneal	-1.2381	-1.2245	0.0136
4400	100	Biased-168Hr-Anneal	-0.0485	-0.0538	-0.0053
4500	100	Unbiased-168Hr-Anneal	1.3594	1.368	0.0086
4600	100	Unbiased-168Hr-Anneal	1.0676	0.953	-0.1146
4700	100	Unbiased-168Hr-Anneal	0.7055	0.6776	-0.0279
4800	100	Unbiased-168Hr-Anneal	0.3329	0.2983	-0.0346
4900	100	Unbiased-168Hr-Anneal	-0.3445	-0.4097	-0.0652
9300	0	CORRELATION	-0.4565	-0.5191	-0.0626
9400	0	CORRELATION	-0.0508	-0.0345	0.0163
9500	0	CORRELATION	0.4589	0.4866	0.0277
9600	0	CORRELATION	0.5355	0.5123	-0.0232
9700	0	CORRELATION	0.0752	0.0448	-0.0304

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	-0.4565	0.11246	0.5355	0.40334	-0.5191	0.09802	0.5123	0.4254	-0.0626	-0.01444	0.0277	0.036646
3	-1.6436	-0.32402	0.8142	0.79253	-1.0208	0.25336	1.4596	0.84549	-1.3414	0.57738	2.9763	1.415
10	-0.9307	-0.10774	0.4463	0.50445	-1.1804	0.09573	1.3965	0.75937	-0.3013	0.20347	0.9502	0.39524
20	-1.1437	-0.24969	0.4103	0.45615	-1.1446	-0.2144	0.4348	0.45504	-0.0009	0.03529	0.0949	0.028406
30	-0.6171	0.12705	1.3595	0.58698	-0.6338	0.13164	1.3455	0.5765	-0.0187	0.00459	0.0398	0.024848
50	-1.3466	-0.24287	0.6798	0.70236	-1.6452	-0.41383	0.5103	0.75014	-0.9859	-0.17096	0.0582	0.39028
100	-1.2381	0.28708	1.3594	0.80157	-1.2245	0.26052	1.368	0.78905	-0.1146	-0.02656	0.0136	0.038962

Device Test: 17.38 LEVEL|STATIC/VSNSP/14////@VREF_INTERNAL





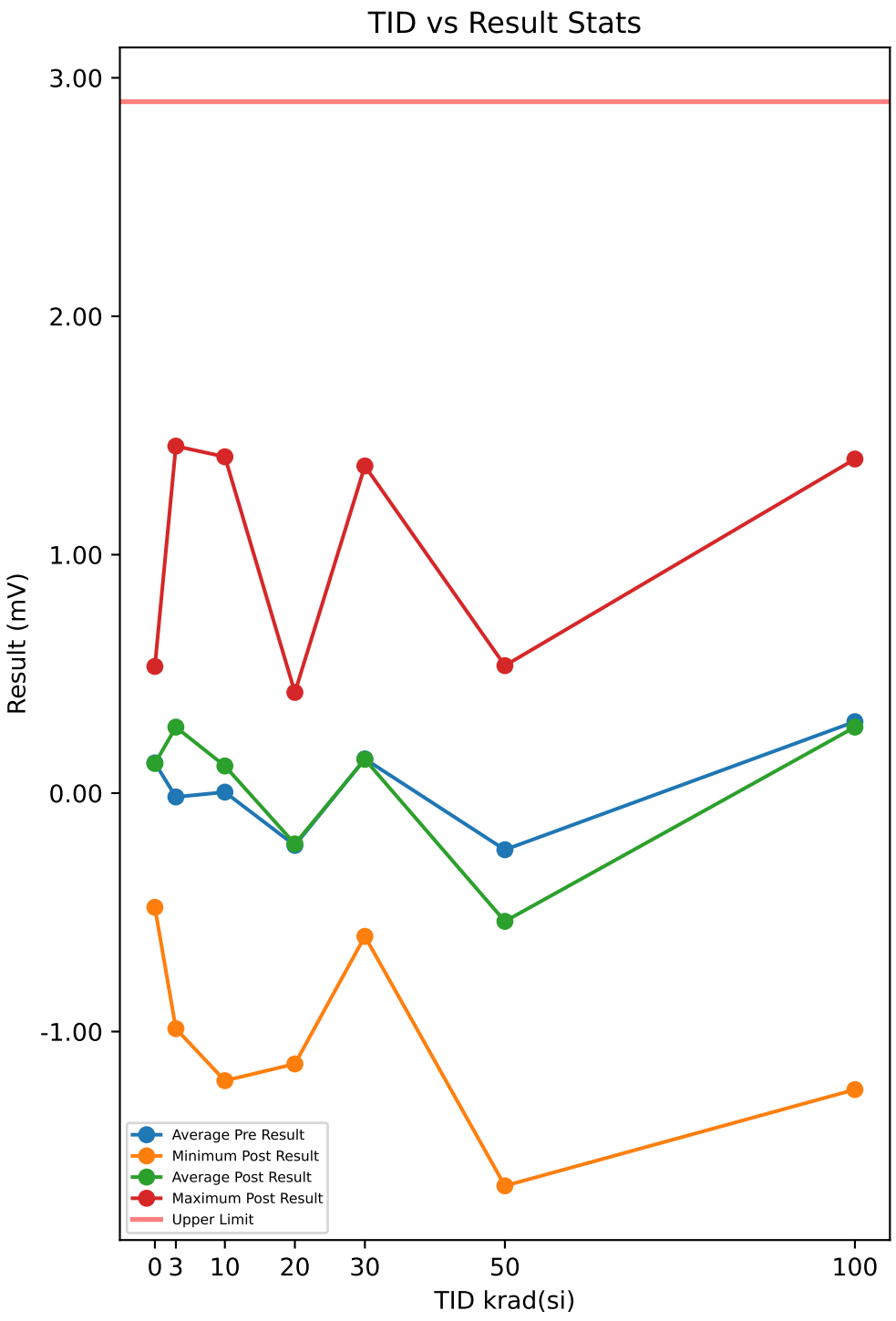
Test Results (Lower Limit = 0.593, Upper Limit = 0.606 (V))

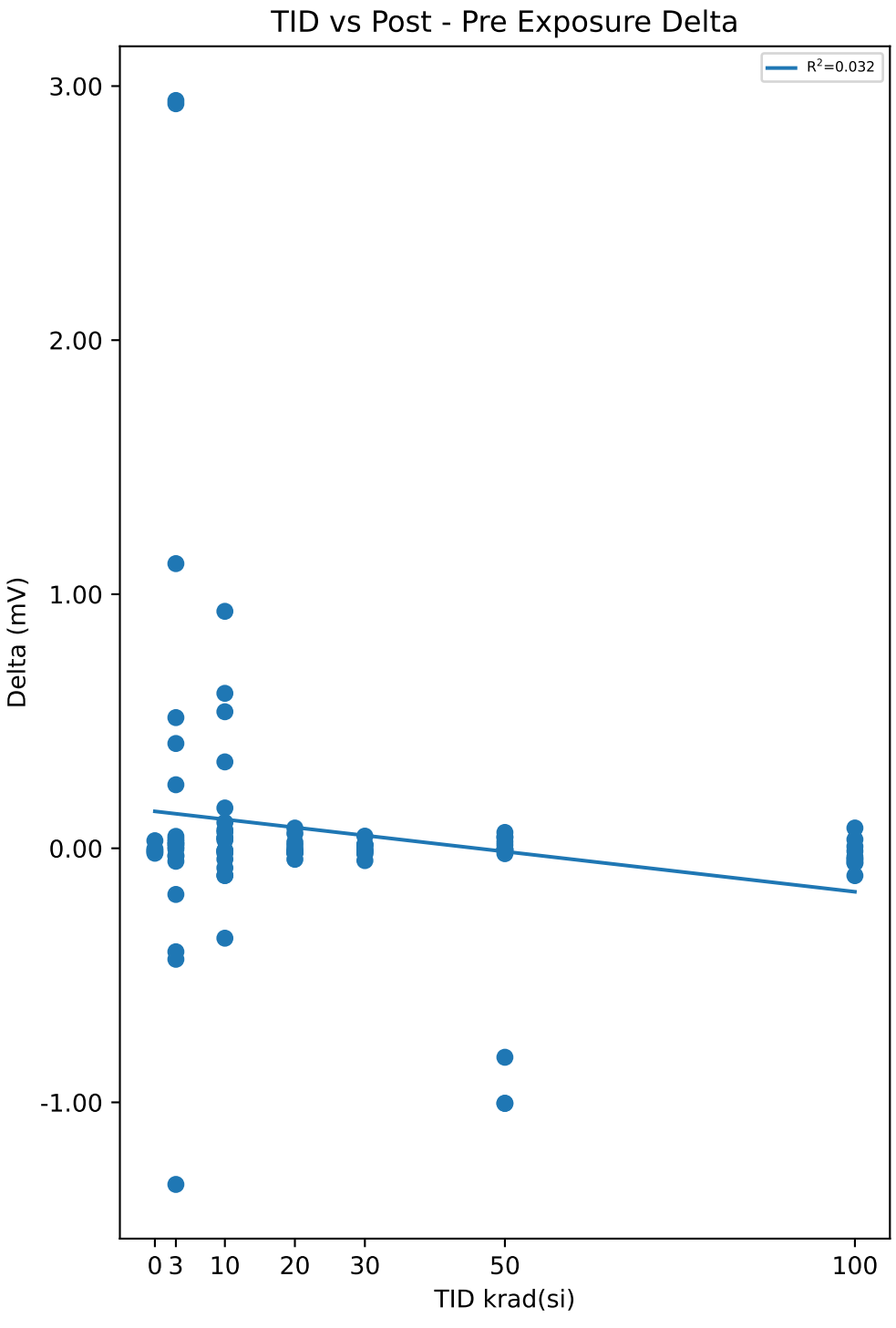
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6001	0.5986	-0.0015
51	3	Biased	0.599	0.5994	0.0004
52	3	Biased	0.5978	0.5988	0.001
53	3	Biased	0.5996	0.5979	-0.0017
54	3	Biased	0.5999	0.5994	-0.0005
55	3	Unbiased	0.5995	0.6	0.0005
56	3	Unbiased	0.6013	0.5959	-0.0054
57	3	Unbiased	0.6011	0.5976	-0.0035
58	3	Unbiased	0.6002	0.5991	-0.0011
59	3	Unbiased	0.5993	0.6003	0.001
60	10	Biased	0.5998	0.5989	-0.0009
61	10	Biased	0.5998	0.5984	-0.0014
62	10	Biased	0.5996	0.5995	-0.0001
63	10	Biased	0.5998	0.5989	-0.0009
64	10	Biased	0.5986	0.5978	-0.0008
65	10	Unbiased	0.5999	0.6	0.0001
66	10	Unbiased	0.6007	0.5995	-0.0012
67	10	Unbiased	0.5992	0.5983	-0.0009
68	10	Unbiased	0.5999	0.5998	-0.0001
69	10	Unbiased	0.5994	0.5995	0.0001
100	20	Biased	0.6004	0.6	-0.0004
200	20	Biased	0.6004	0.6007	0.0003
300	20	Biased	0.5993	0.5988	-0.0005
400	20	Biased	0.6001	0.6002	0.0001
500	20	Biased	0.5989	0.5985	-0.0004
600	20	Unbiased	0.6009	0.6011	0.0002
700	20	Unbiased	0.5996	0.5999	0.0003
800	20	Unbiased	0.5995	0.5997	0.0002
900	20	Unbiased	0.6001	0.6	-0.0001
1000	20	Unbiased	0.599	0.5987	-0.0003
1100	30	Biased	0.5995	0.5989	-0.0006
1200	30	Biased	0.5994	0.5994	0
1300	30	Biased	0.6	0.5994	-0.0006
1400	30	Biased	0.5994	0.6001	0.0007
1500	30	Biased	0.5981	0.5976	-0.0005
1600	30	Unbiased	0.5989	0.5989	0
1700	30	Unbiased	0.6002	0.6002	0
1800	30	Unbiased	0.5994	0.5988	-0.0006
1900	30	Unbiased	0.6005	0.6014	0.0009
2000	30	Unbiased	0.5991	0.5993	0.0002
2100	50	Biased-84Hr-Anneal	0.5996	0.6013	0.0017
2200	50	Biased-84Hr-Anneal	0.5986	0.599	0.0004
2300	50	Biased-84Hr-Anneal	0.5995	0.5983	-0.0012
2400	50	Biased-84Hr-Anneal	0.5994	0.6	0.0006
2500	50	Biased-84Hr-Anneal	0.5993	0.5983	-0.001
2600	50	Unbiased	0.6006	0.6018	0.0012
2700	50	Unbiased	0.5995	0.6005	0.001
2800	50	Unbiased	0.5984	0.5988	0.0004
2900	50	Unbiased	0.6014	0.6006	-0.0008
3000	50	Unbiased	0.5996	0.5989	-0.0007
4000	100	Biased-168Hr-Anneal	0.5982	0.5966	-0.0016
4100	100	Biased-168Hr-Anneal	0.5982	0.5992	0.001
4200	100	Biased-168Hr-Anneal	0.5998	0.5991	-0.0007
4300	100	Biased-168Hr-Anneal	0.6005	0.6007	0.0002
4400	100	Biased-168Hr-Anneal	0.6002	0.6009	0.0007
4500	100	Unbiased-168Hr-Anneal	0.5986	0.599	0.0004
4600	100	Unbiased-168Hr-Anneal	0.5983	0.5982	-0.0001
4700	100	Unbiased-168Hr-Anneal	0.5988	0.5992	0.0004
4800	100	Unbiased-168Hr-Anneal	0.5996	0.5995	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5999	0.6019	0.002
9300	0	CORRELATION	0.6	0.6005	0.0005
9400	0	CORRELATION	0.5994	0.5993	-0.0001
9500	0	CORRELATION	0.5994	0.5995	0.0001
9600	0	CORRELATION	0.5986	0.5987	0.0001
9700	0	CORRELATION	0.5998	0.5997	-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	0.5986	0.59944	0.6	0.00053666	0.5987	0.59954	0.6005	0.00065422	-0.0001	0.0001	0.0005	0.00024495
3	0.5978	0.59978	0.6013	0.0010119	0.5959	0.5987	0.6003	0.0012953	-0.0054	-0.00108	0.001	0.0020751
10	0.5986	0.59967	0.6007	0.00054375	0.5978	0.59906	0.6	0.00071988	-0.0014	-0.00061	0.0001	0.00055668
20	0.5989	0.59982	0.6009	0.00066131	0.5985	0.59976	0.6011	0.0008592	-0.0005	-6e-05	0.0003	0.00031693
30	0.5981	0.59945	0.6005	0.00068516	0.5976	0.5994	0.6014	0.0010132	-0.0006	-5e-05	0.0009	0.00054212
50	0.5984	0.59959	0.6014	0.00087108	0.5983	0.59975	0.6018	0.0012625	-0.0012	0.00016	0.0017	0.0010178
100	0.5982	0.59921	0.6005	0.00088374	0.5966	0.59943	0.6019	0.0014833	-0.0016	0.00022	0.002	0.00096816

Device Test: 17.39 LEVEL|STATIC/VSNSP/14////@EA_INPUT_OFFSET_V





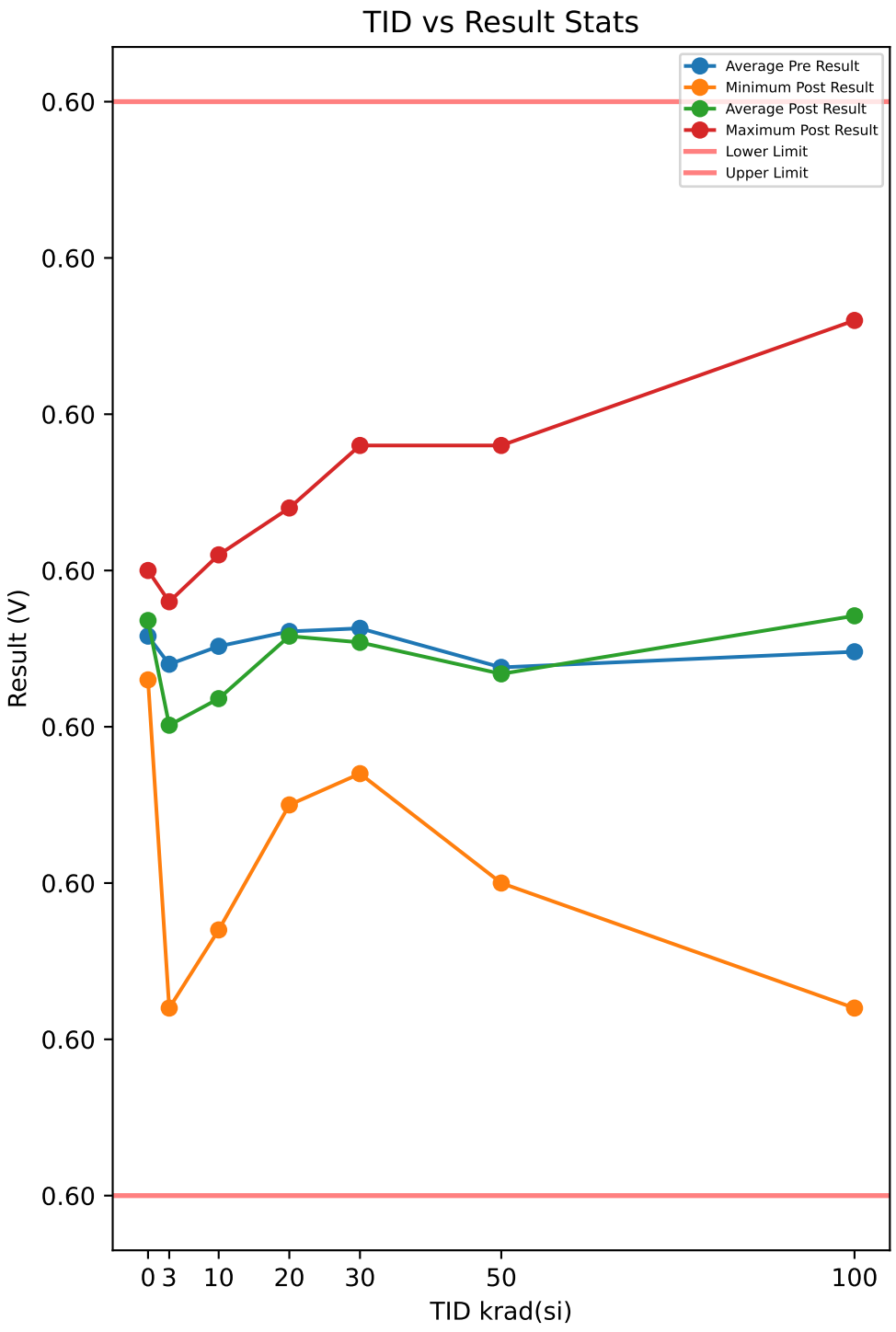
Test Results (Upper Limit = 2.9 (mV))

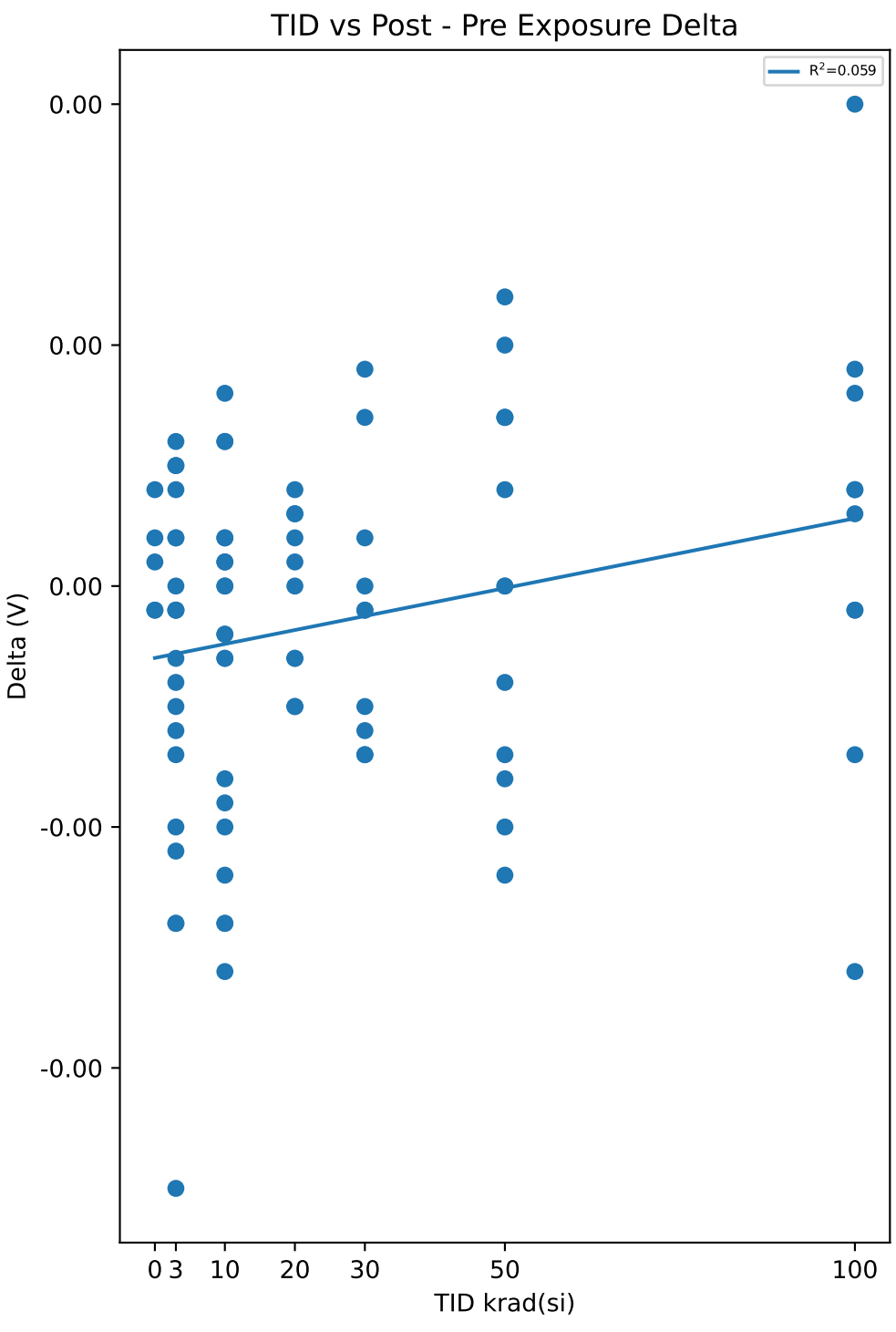
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.5456	0.5749	1.1205
51	3	Biased	0.3352	-0.9878	-1.323
52	3	Biased	0.8451	0.4083	-0.4368
53	3	Biased	0.5084	0.7585	0.2501
54	3	Biased	-0.0871	0.3254	0.4125
55	3	Unbiased	-0.4532	-0.6348	-0.1816
56	3	Unbiased	-1.6214	1.3092	2.9306
57	3	Unbiased	-1.488	1.4553	2.9433
58	3	Unbiased	-0.2075	0.3069	0.5144
59	3	Unbiased	-0.3408	-0.748	-0.4072
60	10	Biased	0.1323	0.0251	-0.1072
61	10	Biased	0.2318	0.3905	0.1587
62	10	Biased	0.3316	0.4042	0.0726
63	10	Biased	0.2204	0.7579	0.5375
64	10	Biased	-0.0087	-0.1155	-0.1068
65	10	Unbiased	-0.541	-0.2009	0.3401
66	10	Unbiased	-0.8522	-1.206	-0.3538
67	10	Unbiased	0.4779	1.4106	0.9327
68	10	Unbiased	-0.8762	-0.8954	-0.0192
69	10	Unbiased	-0.0416	0.5683	0.6099
100	20	Biased	-0.4856	-0.427	0.0586
200	20	Biased	-0.4838	-0.4041	0.0797
300	20	Biased	-0.0881	-0.0976	-0.0095
400	20	Biased	-0.466	-0.4816	-0.0156
500	20	Biased	0.0139	-0.0295	-0.0434
600	20	Unbiased	-1.1161	-1.1357	-0.0196
700	20	Unbiased	0.439	0.4224	-0.0166
800	20	Unbiased	-0.2885	-0.2787	0.0098
900	20	Unbiased	-0.0042	-0.0092	-0.005
1000	20	Unbiased	0.2867	0.3108	0.0241
1100	30	Biased	-0.0119	-0.0341	-0.0222
1200	30	Biased	0.4006	0.3522	-0.0484
1300	30	Biased	-0.2853	-0.2712	0.0141
1400	30	Biased	-0.1268	-0.0789	0.0479
1500	30	Biased	1.3777	1.3721	-0.0056
1600	30	Unbiased	0.2733	0.2704	-0.0029
1700	30	Unbiased	-0.3031	-0.2888	0.0143
1800	30	Unbiased	-0.0942	-0.0817	0.0125
1900	30	Unbiased	-0.5891	-0.6007	-0.0116
2000	30	Unbiased	0.7935	0.7774	-0.0161
2100	50	Biased-84Hr-Anneal	-0.6432	-1.647	-1.0038
2200	50	Biased-84Hr-Anneal	0.6781	-0.1444	-0.8225
2300	50	Biased-84Hr-Anneal	-0.3146	-0.2716	0.043
2400	50	Biased-84Hr-Anneal	-0.4708	-0.4446	0.0262
2500	50	Biased-84Hr-Anneal	0.4615	0.4741	0.0126
2600	50	Unbiased	-1.3697	-1.3073	0.0624
2700	50	Unbiased	0.2456	0.2413	-0.0043
2800	50	Unbiased	0.4898	0.5346	0.0448
2900	50	Unbiased	-1.1596	-1.1807	-0.0211
3000	50	Unbiased	-0.2917	-0.3013	-0.0096
4000	100	Biased-168Hr-Anneal	0.6401	0.6474	0.0073
4100	100	Biased-168Hr-Anneal	0.894	0.8377	-0.0563
4200	100	Biased-168Hr-Anneal	-0.4123	-0.4233	-0.011
4300	100	Biased-168Hr-Anneal	-1.2106	-1.2433	-0.0327
4400	100	Biased-168Hr-Anneal	-0.0338	0.001	0.0348
4500	100	Unbiased-168Hr-Anneal	1.3214	1.4013	0.0799
4600	100	Unbiased-168Hr-Anneal	1.0883	0.9807	-0.1076
4700	100	Unbiased-168Hr-Anneal	0.7269	0.6859	-0.041
4800	100	Unbiased-168Hr-Anneal	0.3395	0.2819	-0.0576
4900	100	Unbiased-168Hr-Anneal	-0.3559	-0.4009	-0.045
9300	0	CORRELATION	-0.4772	-0.4789	-0.0017
9400	0	CORRELATION	0.0107	0.0029	-0.0078
9500	0	CORRELATION	0.4723	0.5022	0.0299
9600	0	CORRELATION	0.5508	0.5314	-0.0194
9700	0	CORRELATION	0.0776	0.0639	-0.0137

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	-0.4772	0.12684	0.5508	0.41227	-0.4789	0.1243	0.5314	0.41556	-0.0194	-0.00254	0.0299	0.019297
3	-1.6214	-0.30549	0.8451	0.79336	-0.9878	0.27679	1.4553	0.83511	-1.323	0.58228	2.9433	1.4045
10	-0.8762	-0.09257	0.4779	0.49	-1.206	0.11388	1.4106	0.77344	-0.3538	0.20645	0.9327	0.39429
20	-1.1161	-0.21927	0.439	0.44945	-1.1357	-0.21302	0.4224	0.44432	-0.0434	0.00625	0.0797	0.037968
30	-0.5891	0.14347	1.3777	0.58712	-0.6007	0.14167	1.3721	0.57882	-0.0484	-0.0018	0.0479	0.026014
50	-1.3697	-0.23746	0.6781	0.70311	-1.647	-0.40469	0.5346	0.75497	-1.0038	-0.16723	0.0624	0.39632
100	-1.2106	0.29976	1.3214	0.79218	-1.2433	0.27684	1.4013	0.7969	-0.1076	-0.02292	0.0799	0.053079

Device Test: 17.4 LEVEL|STATIC/SS_TR/4.5////@VREF_25C





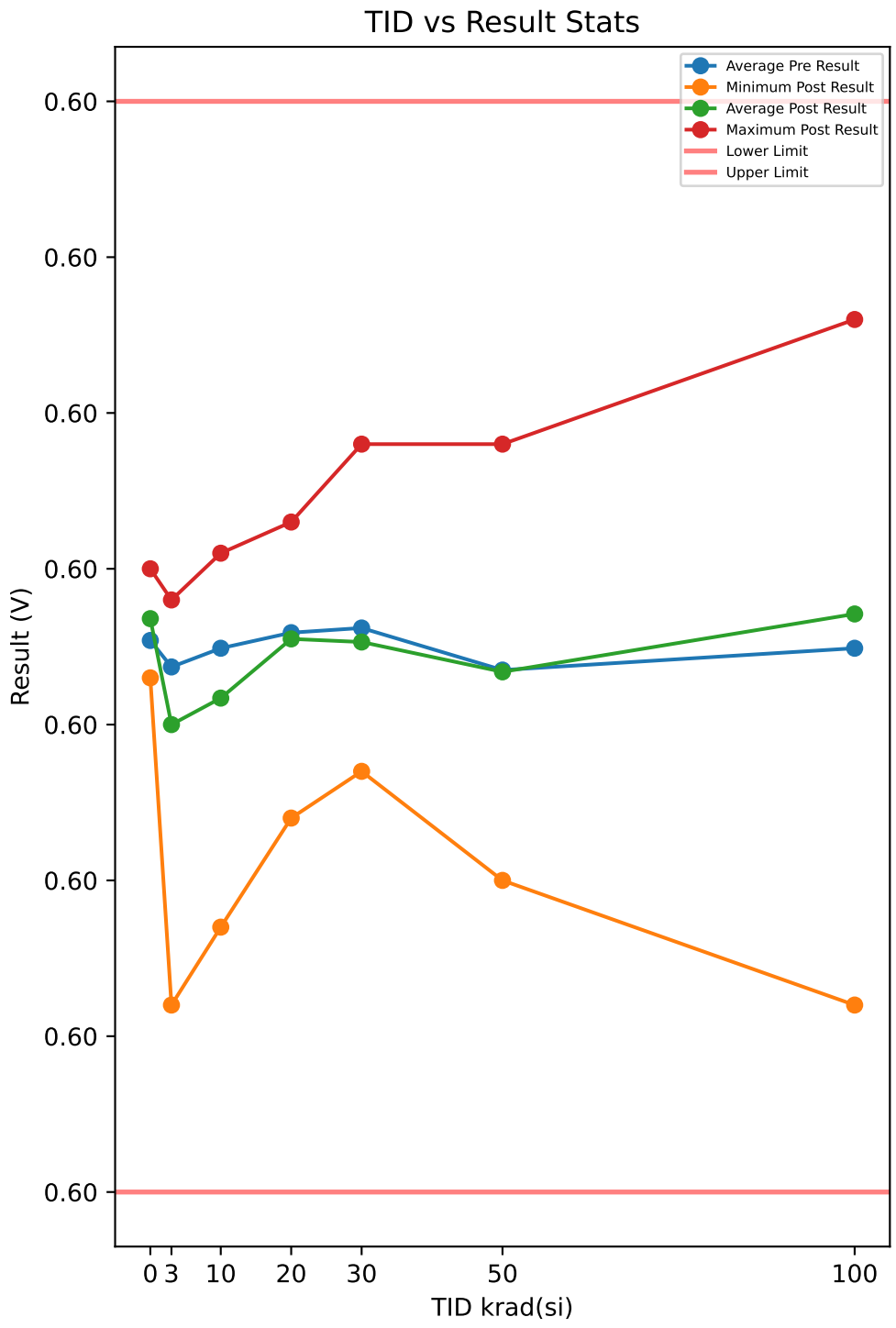
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

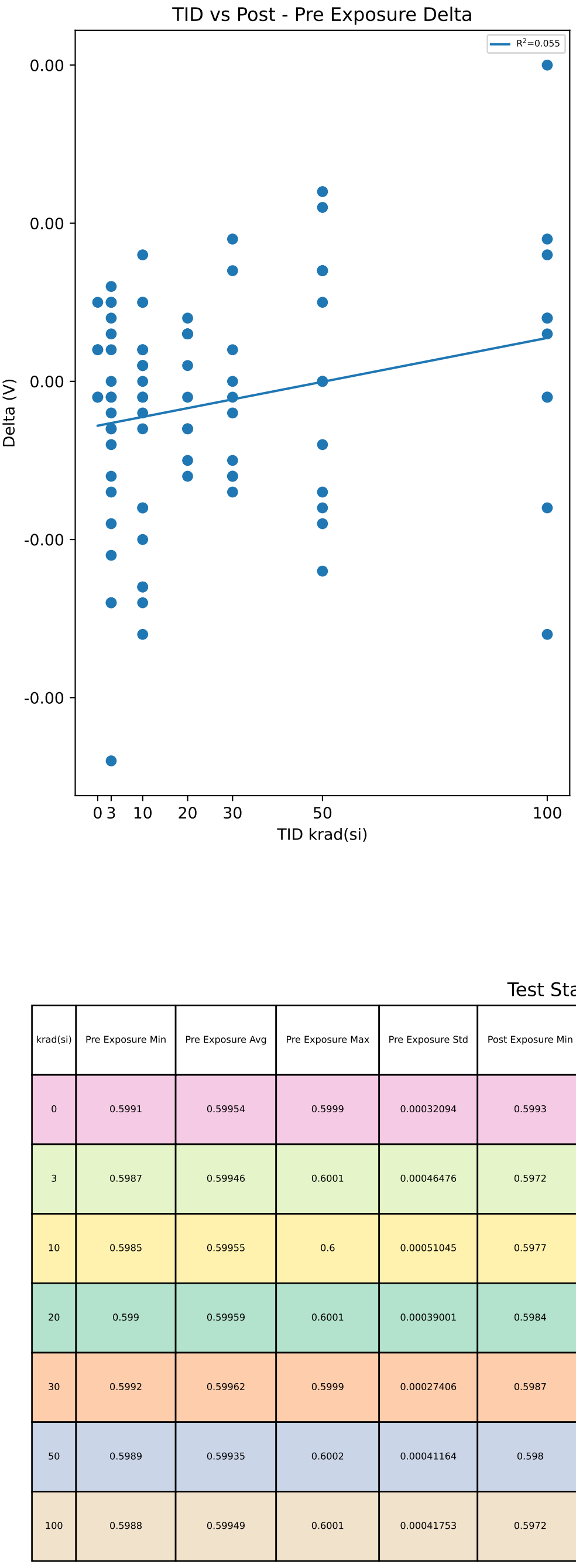
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5996	0.5992	-0.0004
51	3	Biased	0.5994	0.5984	-0.001
52	3	Biased	0.5987	0.5992	0.0005
53	3	Biased	0.6002	0.5988	-0.0014
54	3	Biased	0.5999	0.5998	-0.0001
55	3	Unbiased	0.599	0.5994	0.0004
56	3	Unbiased	0.5997	0.5972	-0.0025
57	3	Unbiased	0.5996	0.5991	-0.0005
58	3	Unbiased	0.6	0.5994	-0.0006
59	3	Unbiased	0.599	0.5996	0.0006
60	10	Biased	0.5999	0.5989	-0.001
61	10	Biased	0.6	0.5988	-0.0012
62	10	Biased	0.6	0.5998	-0.0002
63	10	Biased	0.6	0.5997	-0.0003
64	10	Biased	0.5986	0.5977	-0.0009
65	10	Unbiased	0.5993	0.5999	0.0006
66	10	Unbiased	0.5998	0.5984	-0.0014
67	10	Unbiased	0.5997	0.5997	0
68	10	Unbiased	0.599	0.5988	-0.0002
69	10	Unbiased	0.5993	0.6001	0.0008
100	20	Biased	0.5998	0.5995	-0.0003
200	20	Biased	0.6	0.6003	0.0003
300	20	Biased	0.5993	0.5988	-0.0005
400	20	Biased	0.5996	0.5997	0.0001
500	20	Biased	0.599	0.5985	-0.0005
600	20	Unbiased	0.5998	0.6	0.0002
700	20	Unbiased	0.6	0.6004	0.0004
800	20	Unbiased	0.5992	0.5995	0.0003
900	20	Unbiased	0.6001	0.6001	0
1000	20	Unbiased	0.5993	0.599	-0.0003
1100	30	Biased	0.5995	0.5989	-0.0006
1200	30	Biased	0.5998	0.5997	-0.0001
1300	30	Biased	0.5998	0.5991	-0.0007
1400	30	Biased	0.5993	0.6	0.0007
1500	30	Biased	0.5995	0.599	-0.0005
1600	30	Unbiased	0.5992	0.5992	0
1700	30	Unbiased	0.6	0.5999	-0.0001
1800	30	Unbiased	0.5994	0.5987	-0.0007
1900	30	Unbiased	0.5999	0.6008	0.0009
2000	30	Unbiased	0.5999	0.6001	0.0002
2100	50	Biased-84Hr-Anneal	0.599	0.5997	0.0007
2200	50	Biased-84Hr-Anneal	0.5993	0.5989	-0.0004
2300	50	Biased-84Hr-Anneal	0.5992	0.598	-0.0012
2400	50	Biased-84Hr-Anneal	0.5989	0.5996	0.0007
2500	50	Biased-84Hr-Anneal	0.5998	0.5988	-0.001
2600	50	Unbiased	0.5993	0.6005	0.0012
2700	50	Unbiased	0.5998	0.6008	0.001
2800	50	Unbiased	0.599	0.5994	0.0004
2900	50	Unbiased	0.6002	0.5994	-0.0008
3000	50	Unbiased	0.5993	0.5986	-0.0007
4000	100	Biased-168Hr-Anneal	0.5988	0.5972	-0.0016
4100	100	Biased-168Hr-Anneal	0.5991	0.6	0.0009
4200	100	Biased-168Hr-Anneal	0.5993	0.5986	-0.0007
4300	100	Biased-168Hr-Anneal	0.5992	0.5995	0.0003
4400	100	Biased-168Hr-Anneal	0.6001	0.6009	0.0008
4500	100	Unbiased-168Hr-Anneal	0.6	0.6004	0.0004
4600	100	Unbiased-168Hr-Anneal	0.5993	0.5992	-0.0001
4700	100	Unbiased-168Hr-Anneal	0.5995	0.5999	0.0004
4800	100	Unbiased-168Hr-Anneal	0.5999	0.5998	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5996	0.6016	0.002
9300	0	CORRELATION	0.5996	0.6	0.0004
9400	0	CORRELATION	0.5994	0.5993	-0.0001
9500	0	CORRELATION	0.5999	0.6	0.0001
9600	0	CORRELATION	0.5991	0.5993	0.0002
9700	0	CORRELATION	0.5999	0.5998	-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	0.5991	0.59958	0.5999	0.00034205	0.5993	0.59968	0.6	0.00035637	-0.0001	0.0001	0.0004	0.00021213
3	0.5987	0.59951	0.6002	0.00048408	0.5972	0.59901	0.5998	0.000749	-0.0025	-0.0005	0.0006	0.00095801
10	0.5986	0.59956	0.6	0.00048808	0.5977	0.59918	0.6001	0.0007786	-0.0014	-0.00038	0.0008	0.00074057
20	0.599	0.59961	0.6001	0.00038715	0.5985	0.59958	0.6004	0.00064773	-0.0005	-3e-05	0.0004	0.00034335
30	0.5992	0.59963	0.6	0.00028304	0.5987	0.59954	0.6008	0.00066533	-0.0007	-9e-05	0.0009	0.0005646
50	0.5989	0.59938	0.6002	0.00042111	0.598	0.59937	0.6008	0.0008499	-0.0012	-1e-05	0.0012	0.00090117
100	0.5988	0.59948	0.6001	0.00042111	0.5972	0.59971	0.6016	0.0012215	-0.0016	0.00023	0.002	0.00096615

Device Test: 17.40 LEVEL|STATIC/SS_TR/14////@VREF_25C





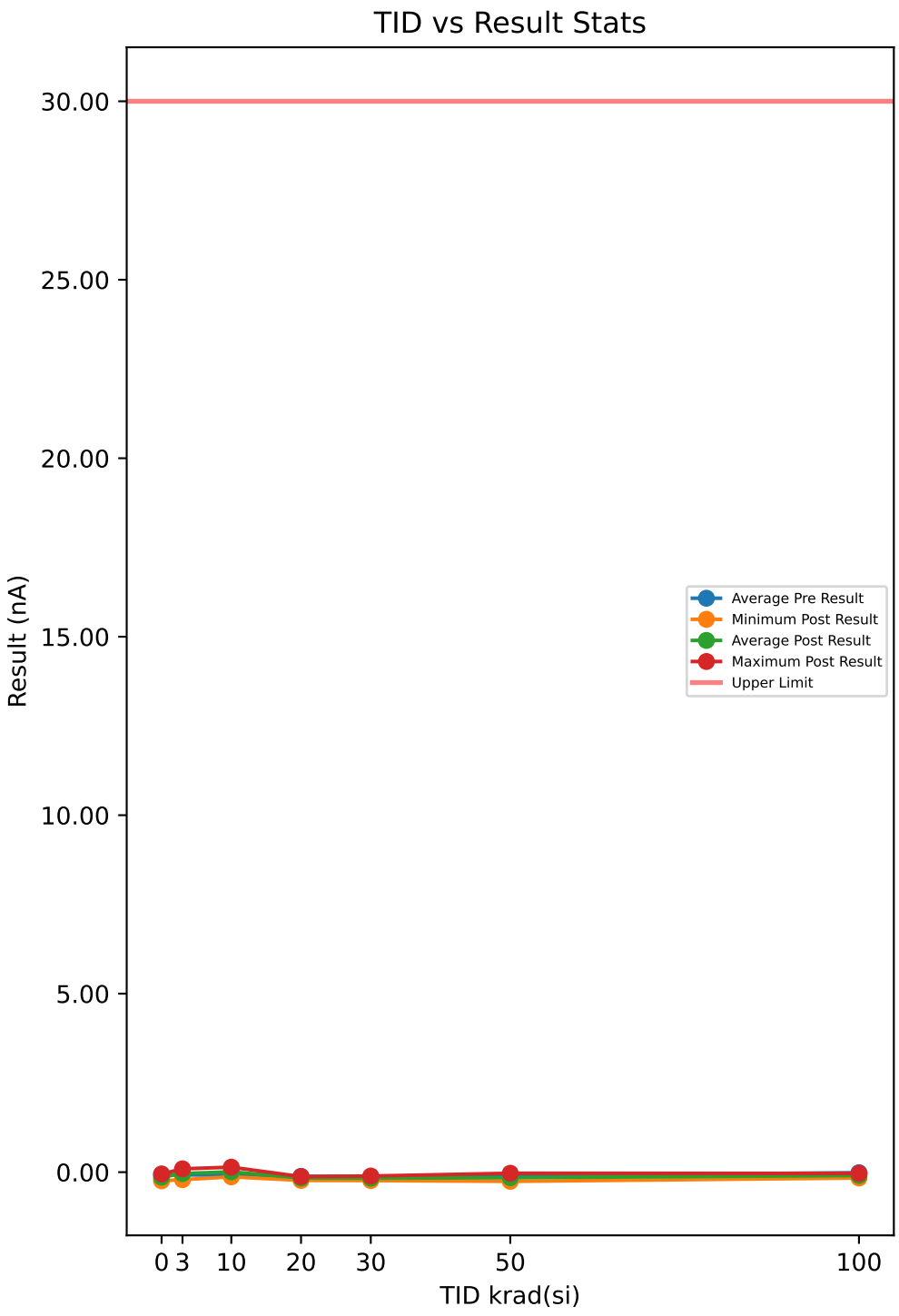
Test Results (Lower Limit = 0.596, Upper Limit = 0.603 (V))

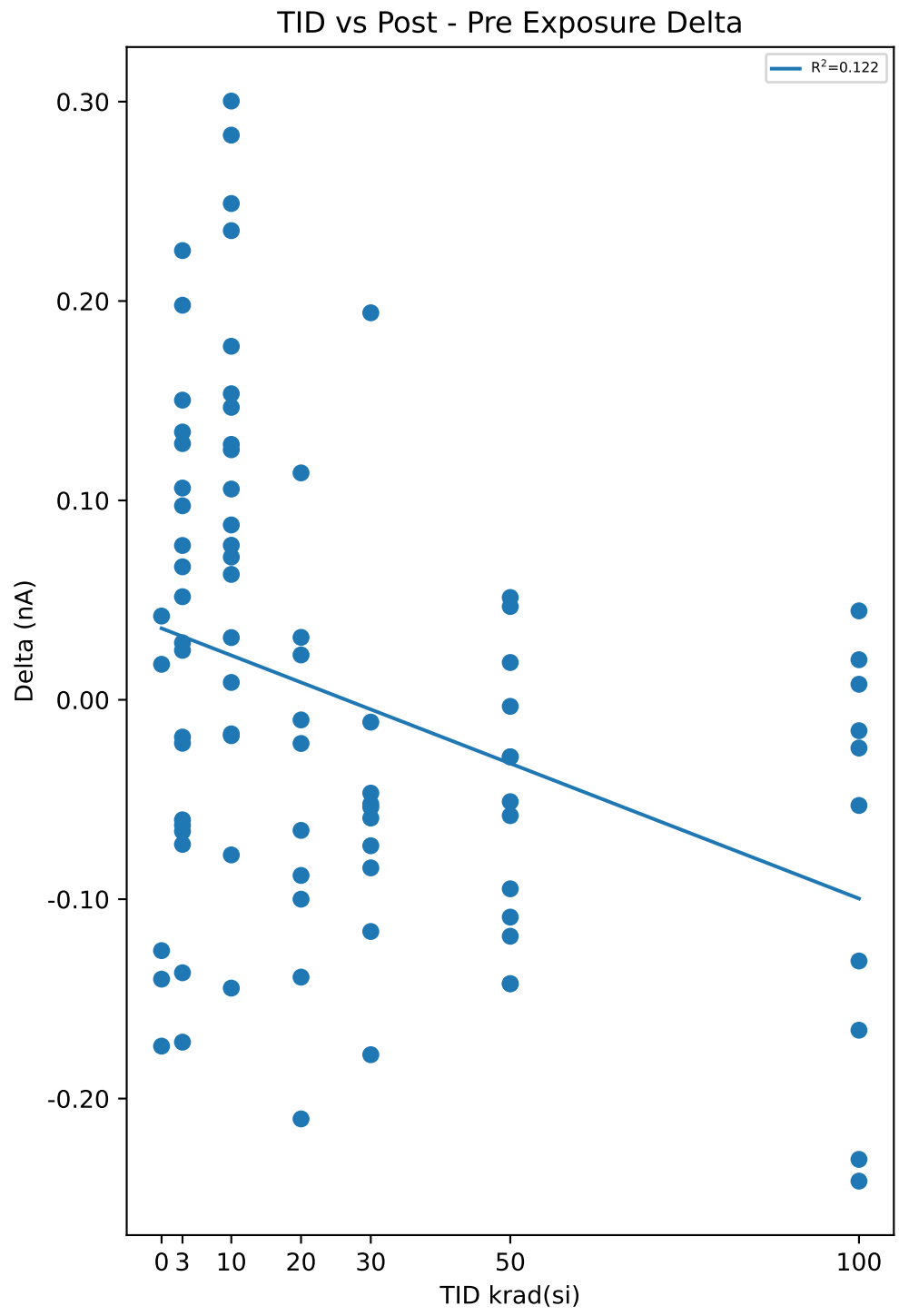
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.5995	0.5992	-0.0003
51	3	Biased	0.5993	0.5984	-0.0009
52	3	Biased	0.5987	0.5992	0.0005
53	3	Biased	0.6001	0.5987	-0.0014
54	3	Biased	0.5999	0.5998	-0.0001
55	3	Unbiased	0.599	0.5994	0.0004
56	3	Unbiased	0.5996	0.5972	-0.0024
57	3	Unbiased	0.5995	0.5991	-0.0004
58	3	Unbiased	0.6	0.5994	-0.0006
59	3	Unbiased	0.599	0.5996	0.0006
60	10	Biased	0.5999	0.5989	-0.001
61	10	Biased	0.6	0.5987	-0.0013
62	10	Biased	0.6	0.5998	-0.0002
63	10	Biased	0.6	0.5997	-0.0003
64	10	Biased	0.5985	0.5977	-0.0008
65	10	Unbiased	0.5993	0.5998	0.0005
66	10	Unbiased	0.5998	0.5984	-0.0014
67	10	Unbiased	0.5997	0.5997	0
68	10	Unbiased	0.599	0.5989	-0.0001
69	10	Unbiased	0.5993	0.6001	0.0008
100	20	Biased	0.5999	0.5996	-0.0003
200	20	Biased	0.5999	0.6003	0.0004
300	20	Biased	0.5992	0.5987	-0.0005
400	20	Biased	0.5996	0.5997	0.0001
500	20	Biased	0.599	0.5984	-0.0006
600	20	Unbiased	0.5997	0.6	0.0003
700	20	Unbiased	0.6	0.6003	0.0003
800	20	Unbiased	0.5992	0.5995	0.0003
900	20	Unbiased	0.6001	0.6	-0.0001
1000	20	Unbiased	0.5993	0.599	-0.0003
1100	30	Biased	0.5995	0.5989	-0.0006
1200	30	Biased	0.5999	0.5997	-0.0002
1300	30	Biased	0.5997	0.5991	-0.0006
1400	30	Biased	0.5993	0.6	0.0007
1500	30	Biased	0.5995	0.599	-0.0005
1600	30	Unbiased	0.5992	0.5991	-0.0001
1700	30	Unbiased	0.5999	0.5999	0
1800	30	Unbiased	0.5994	0.5987	-0.0007
1900	30	Unbiased	0.5999	0.6008	0.0009
2000	30	Unbiased	0.5999	0.6001	0.0002
2100	50	Biased-84Hr-Anneal	0.599	0.5997	0.0007
2200	50	Biased-84Hr-Anneal	0.5993	0.5989	-0.0004
2300	50	Biased-84Hr-Anneal	0.5992	0.598	-0.0012
2400	50	Biased-84Hr-Anneal	0.5989	0.5996	0.0007
2500	50	Biased-84Hr-Anneal	0.5997	0.5988	-0.0009
2600	50	Unbiased	0.5993	0.6005	0.0012
2700	50	Unbiased	0.5997	0.6008	0.0011
2800	50	Unbiased	0.5989	0.5994	0.0005
2900	50	Unbiased	0.6002	0.5994	-0.0008
3000	50	Unbiased	0.5993	0.5986	-0.0007
4000	100	Biased-168Hr-Anneal	0.5988	0.5972	-0.0016
4100	100	Biased-168Hr-Anneal	0.5991	0.6	0.0009
4200	100	Biased-168Hr-Anneal	0.5994	0.5986	-0.0008
4300	100	Biased-168Hr-Anneal	0.5992	0.5995	0.0003
4400	100	Biased-168Hr-Anneal	0.6001	0.6009	0.0008
4500	100	Unbiased-168Hr-Anneal	0.6	0.6004	0.0004
4600	100	Unbiased-168Hr-Anneal	0.5993	0.5992	-0.0001
4700	100	Unbiased-168Hr-Anneal	0.5995	0.5999	0.0004
4800	100	Unbiased-168Hr-Anneal	0.5999	0.5998	-0.0001
4900	100	Unbiased-168Hr-Anneal	0.5996	0.6016	0.002
9300	0	CORRELATION	0.5995	0.6	0.0005
9400	0	CORRELATION	0.5994	0.5993	-0.0001
9500	0	CORRELATION	0.5998	0.6	0.0002
9600	0	CORRELATION	0.5991	0.5993	0.0002
9700	0	CORRELATION	0.5999	0.5998	-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	0.5991	0.59954	0.5999	0.00032094	0.5993	0.59968	0.6	0.00035637	-0.0001	0.00014	0.0005	0.000251
3	0.5987	0.59946	0.6001	0.00046476	0.5972	0.599	0.5998	0.00075277	-0.0024	-0.00046	0.0006	0.00093119
10	0.5985	0.59955	0.6	0.00051045	0.5977	0.59917	0.6001	0.00077035	-0.0014	-0.00038	0.0008	0.00073606
20	0.599	0.59959	0.6001	0.00039001	0.5984	0.59955	0.6003	0.0006587	-0.0006	-4e-05	0.0004	0.00036878
30	0.5992	0.59962	0.5999	0.00027406	0.5987	0.59953	0.6008	0.00067173	-0.0007	-9e-05	0.0009	0.00055468
50	0.5989	0.59935	0.6002	0.00041164	0.598	0.59937	0.6008	0.0008499	-0.0012	2e-05	0.0012	0.00090774
100	0.5988	0.59949	0.6001	0.00041753	0.5972	0.59971	0.6016	0.0012215	-0.0016	0.00022	0.002	0.0009773

Device Test: 17.41 LEAK|POWERED/VSNSP/14////@VSNSP_LKG_CURR_0P6V





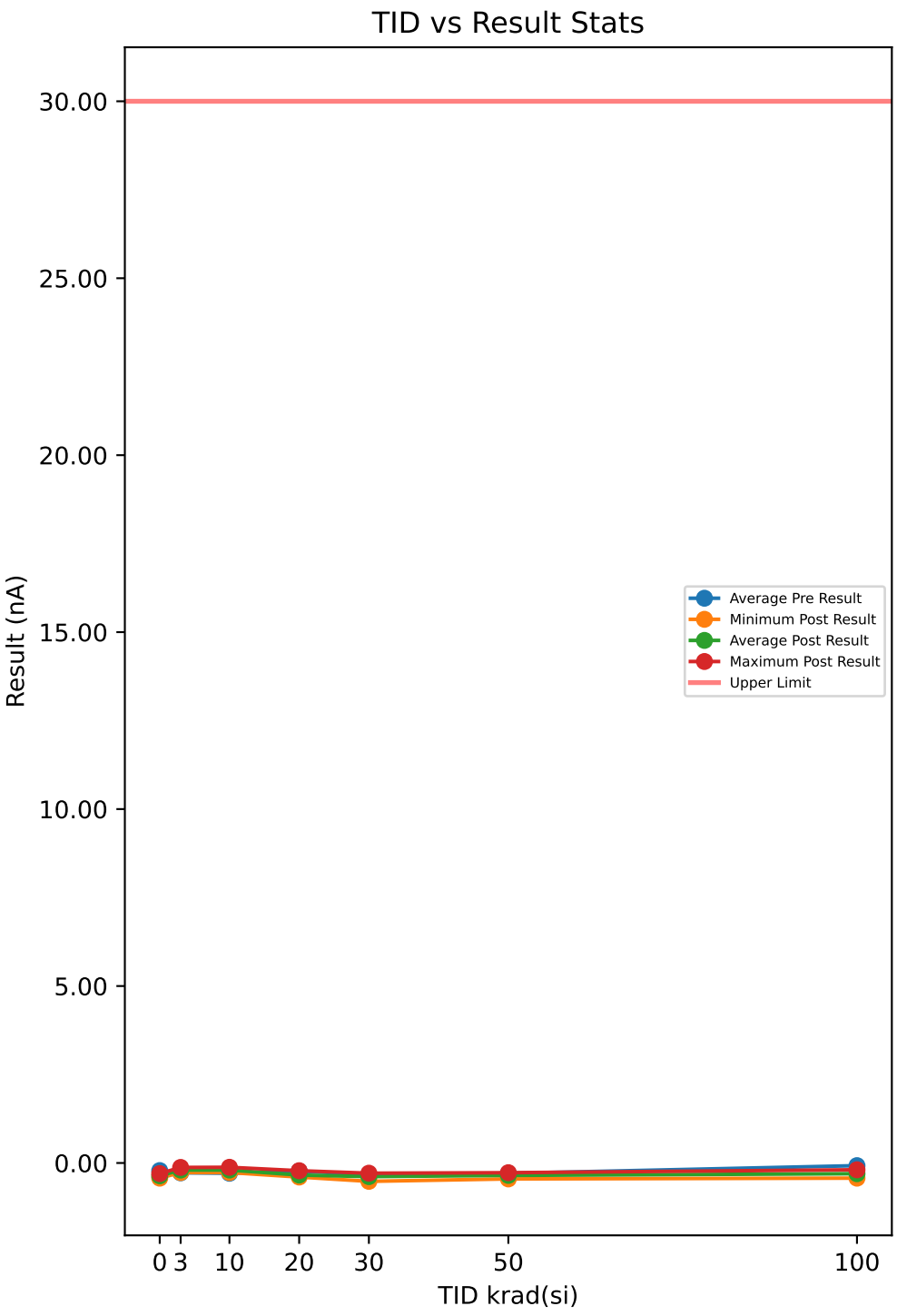
Test Results (Upper Limit = 30.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.098	0.0523	0.1503
51	3	Biased	-0.0967	-0.045	0.0517
52	3	Biased	-0.0506	-0.022	0.0286
53	3	Biased	-0.2043	-0.0064	0.1979
54	3	Biased	-0.1324	0.0929	0.2253
55	3	Unbiased	-0.0873	-0.0625	0.0248
56	3	Unbiased	-0.138	-0.2105	-0.0725
57	3	Unbiased	-0.1824	-0.0481	0.1343
58	3	Unbiased	-0.0762	0.0523	0.1285
59	3	Unbiased	-0.1342	-0.1944	-0.0602
60	10	Biased	-0.0912	0.0861	0.1773
61	10	Biased	-0.1138	-0.1309	-0.0171
62	10	Biased	-0.0762	-0.0133	0.0629
63	10	Biased	-0.1154	-0.0438	0.0716
64	10	Biased	-0.138	-0.1293	0.0087
65	10	Unbiased	-0.2262	0.0741	0.3003
66	10	Unbiased	-0.1199	0.0268	0.1467
67	10	Unbiased	-0.1435	0.1397	0.2832
68	10	Unbiased	-0.0381	0.09	0.1281
69	10	Unbiased	-0.2386	-0.0033	0.2353
100	20	Biased	0.0278	-0.1824	-0.2102
200	20	Biased	-0.0731	-0.1731	-0.1
300	20	Biased	-0.078	-0.1435	-0.0655
400	20	Biased	-0.1286	-0.1505	-0.0219
500	20	Biased	-0.2137	-0.1824	0.0313
600	20	Unbiased	-0.0918	-0.2309	-0.1391
700	20	Unbiased	-0.0624	-0.1505	-0.0881
800	20	Unbiased	-0.1349	-0.145	-0.0101
900	20	Unbiased	-0.2386	-0.1248	0.1138
1000	20	Unbiased	-0.1761	-0.1536	0.0225
1100	30	Biased	-0.078	-0.1512	-0.0732
1200	30	Biased	-0.3127	-0.1186	0.1941
1300	30	Biased	-0.0826	-0.1349	-0.0523
1400	30	Biased	-0.0575	-0.2355	-0.178
1500	30	Biased	-0.0624	-0.1092	-0.0468
1600	30	Unbiased	-0.0818	-0.1661	-0.0843
1700	30	Unbiased	-0.145	-0.2043	-0.0593
1800	30	Unbiased	-0.1542	-0.1654	-0.0112
1900	30	Unbiased	-0.1154	-0.2316	-0.1162
2000	30	Unbiased	-0.1161	-0.17	-0.0539
2100	50	Biased-84Hr-Anneal	-0.1056	-0.1342	-0.0286
2200	50	Biased-84Hr-Anneal	-0.115	-0.2098	-0.0948
2300	50	Biased-84Hr-Anneal	-0.0931	-0.1442	-0.0511
2400	50	Biased-84Hr-Anneal	-0.1993	-0.2574	-0.0581
2500	50	Biased-84Hr-Anneal	0.0778	-0.0312	-0.109
2600	50	Unbiased	-0.098	-0.1013	-0.0033
2700	50	Unbiased	-0.078	-0.0593	0.0187
2800	50	Unbiased	-0.0475	-0.1661	-0.1186
2900	50	Unbiased	-0.2043	-0.1575	0.0468
3000	50	Unbiased	-0.1823	-0.131	0.0513
4000	100	Biased-168Hr-Anneal	0.0589	-0.1068	-0.1657
4100	100	Biased-168Hr-Anneal	-0.0202	-0.0732	-0.053
4200	100	Biased-168Hr-Anneal	-0.0702	-0.0857	-0.0155
4300	100	Biased-168Hr-Anneal	-0.0171	-0.0413	-0.0242
4400	100	Biased-168Hr-Anneal	0.1276	-0.1029	-0.2305
4500	100	Unbiased-168Hr-Anneal	-0.0796	-0.035	0.0446
4600	100	Unbiased-168Hr-Anneal	-0.1106	-0.0905	0.0201
4700	100	Unbiased-168Hr-Anneal	-0.1295	-0.1217	0.0078
4800	100	Unbiased-168Hr-Anneal	0.1276	-0.1138	-0.2414
4900	100	Unbiased-168Hr-Anneal	-0.0327	-0.1637	-0.131
9300	0	CORRELATION	-0.1512	-0.1092	0.042
9400	0	CORRELATION	-0.0153	-0.1411	-0.1258
9500	0	CORRELATION	-0.0681	-0.2418	-0.1737
9600	0	CORRELATION	-0.019	-0.1591	-0.1401
9700	0	CORRELATION	-0.0684	-0.0506	0.0178

Test Statistics (nA)

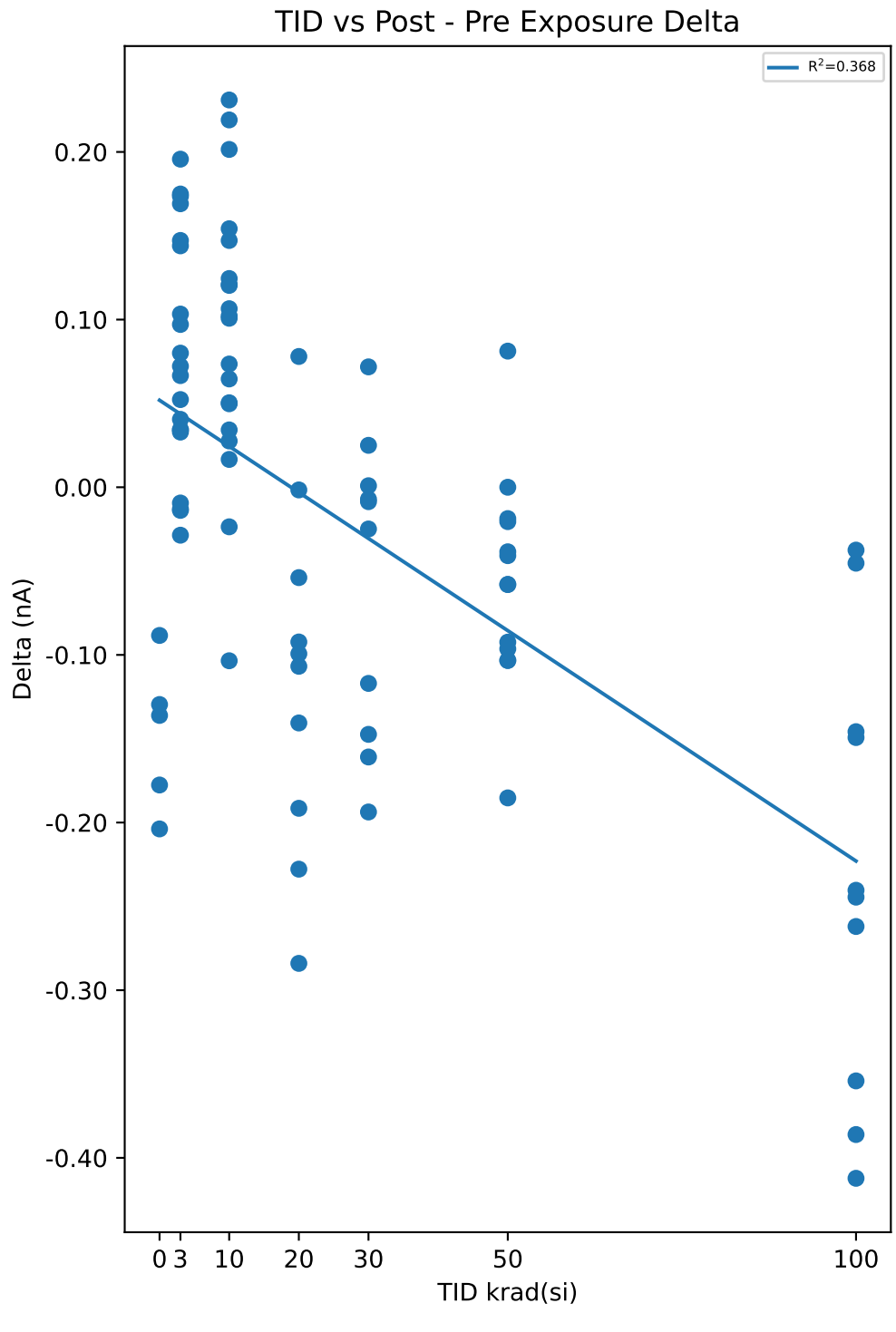
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.1512	-0.0644	-0.0153	0.054854	-0.2418	-0.14036	-0.0506	0.070124	-0.1737	-0.07596	0.042	0.09856
3	-0.2043	-0.12001	-0.0506	0.047738	-0.2105	-0.03914	0.0929	0.099807	-0.0725	0.08087	0.2253	0.10255
10	-0.2386	-0.13009	-0.0381	0.062109	-0.1309	0.00961	0.1397	0.092059	-0.0171	0.1397	0.3003	0.11025
20	-0.2386	-0.11694	0.0278	0.078963	-0.2309	-0.16367	-0.1248	0.029861	-0.2102	-0.04673	0.1138	0.093551
30	-0.3127	-0.12057	-0.0575	0.075135	-0.2355	-0.16868	-0.1092	0.043722	-0.178	-0.04811	0.1941	0.096409
50	-0.2043	-0.10453	0.0778	0.083312	-0.2574	-0.1392	-0.0312	0.066346	-0.1186	-0.03467	0.0513	0.062273
100	-0.1295	-0.01458	0.1276	0.09186	-0.1637	-0.09346	-0.035	0.038049	-0.2414	-0.07888	0.0446	0.10535

Device Test: 17.5 LEAK|POWERED/VSNSP/4.5////@VSNSP_LKG_CURR_0P6V



Test Results (Upper Limit = 30.0 (nA))

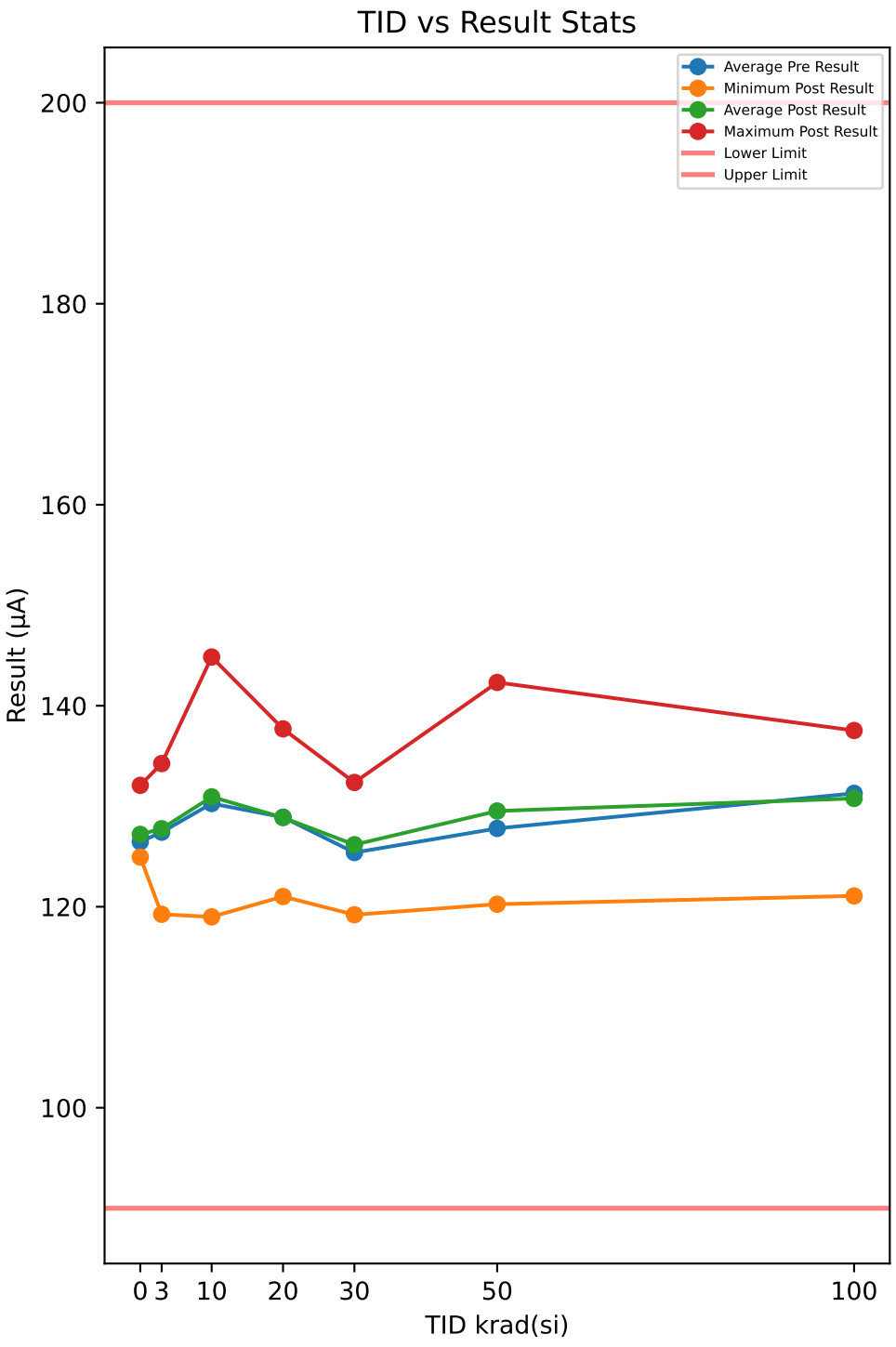
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	-0.226	-0.1538	0.0722
51	3	Biased	-0.3027	-0.2698	0.0329
52	3	Biased	-0.3127	-0.2461	0.0666
53	3	Biased	-0.4166	-0.243	0.1736
54	3	Biased	-0.2759	-0.1788	0.0971
55	3	Unbiased	-0.3339	-0.2306	0.1033
56	3	Unbiased	-0.2971	-0.2448	0.0523
57	3	Unbiased	-0.3573	-0.1824	0.1749
58	3	Unbiased	-0.2697	-0.1257	0.144
59	3	Unbiased	-0.3245	-0.1288	0.1957
60	10	Biased	-0.372	-0.2698	0.1022
61	10	Biased	-0.376	-0.1745	0.2015
62	10	Biased	-0.2541	-0.1476	0.1065
63	10	Biased	-0.3526	-0.1216	0.231
64	10	Biased	-0.3752	-0.2542	0.121
65	10	Unbiased	-0.3885	-0.1694	0.2191
66	10	Unbiased	-0.2728	-0.2386	0.0342
67	10	Unbiased	-0.2434	-0.1788	0.0646
68	10	Unbiased	-0.3096	-0.2088	0.1008
69	10	Unbiased	-0.351	-0.2306	0.1204
100	20	Biased	-0.1938	-0.3853	-0.1915
200	20	Biased	-0.1573	-0.2979	-0.1406
300	20	Biased	0.0094	-0.2184	-0.2278
400	20	Biased	-0.0818	-0.3658	-0.284
500	20	Biased	-0.429	-0.351	0.078
600	20	Unbiased	-0.2322	-0.3245	-0.0923
700	20	Unbiased	-0.2902	-0.397	-0.1068
800	20	Unbiased	-0.3034	-0.3573	-0.0539
900	20	Unbiased	-0.3323	-0.3339	-0.0016
1000	20	Unbiased	-0.2759	-0.3752	-0.0993
1100	30	Biased	-0.259	-0.376	-0.117
1200	30	Biased	-0.3315	-0.3401	-0.0086
1300	30	Biased	-0.4322	-0.4313	0.0009
1400	30	Biased	-0.1854	-0.3791	-0.1937
1500	30	Biased	-0.3152	-0.3401	-0.0249
1600	30	Unbiased	-0.5437	-0.5187	0.025
1700	30	Unbiased	-0.3604	-0.2886	0.0718
1800	30	Unbiased	-0.2385	-0.3994	-0.1609
1900	30	Unbiased	-0.2527	-0.4001	-0.1474
2000	30	Unbiased	-0.372	-0.3791	-0.0071
2100	50	Biased-84Hr-Anneal	-0.2961	-0.3994	-0.1033
2200	50	Biased-84Hr-Anneal	-0.4116	-0.4501	-0.0385
2300	50	Biased-84Hr-Anneal	-0.2211	-0.4064	-0.1853
2400	50	Biased-84Hr-Anneal	-0.3179	-0.4103	-0.0924
2500	50	Biased-84Hr-Anneal	-0.1876	-0.284	-0.0964
2600	50	Unbiased	-0.2603	-0.3011	-0.0408
2700	50	Unbiased	-0.3401	-0.3401	0
2800	50	Unbiased	-0.2847	-0.3034	-0.0187
2900	50	Unbiased	-0.3635	-0.2823	0.0812
3000	50	Unbiased	-0.2541	-0.2746	-0.0205
4000	100	Biased-168Hr-Anneal	0.0745	-0.3377	-0.4122
4100	100	Biased-168Hr-Anneal	0.0702	-0.1918	-0.262
4200	100	Biased-168Hr-Anneal	-0.2324	-0.2699	-0.0375
4300	100	Biased-168Hr-Anneal	-0.0015	-0.3876	-0.3861
4400	100	Biased-168Hr-Anneal	-0.066	-0.2153	-0.1493
4500	100	Unbiased-168Hr-Anneal	-0.2824	-0.4282	-0.1458
4600	100	Unbiased-168Hr-Anneal	0.0764	-0.2777	-0.3541
4700	100	Unbiased-168Hr-Anneal	-0.2012	-0.2465	-0.0453
4800	100	Unbiased-168Hr-Anneal	-0.1003	-0.3448	-0.2445
4900	100	Unbiased-168Hr-Anneal	-0.0888	-0.3292	-0.2404
9300	0	CORRELATION	-0.1887	-0.3183	-0.1296
9400	0	CORRELATION	-0.2244	-0.4282	-0.2038
9500	0	CORRELATION	-0.2492	-0.3853	-0.1361
9600	0	CORRELATION	-0.122	-0.2996	-0.1776
9700	0	CORRELATION	-0.2899	-0.3783	-0.0884

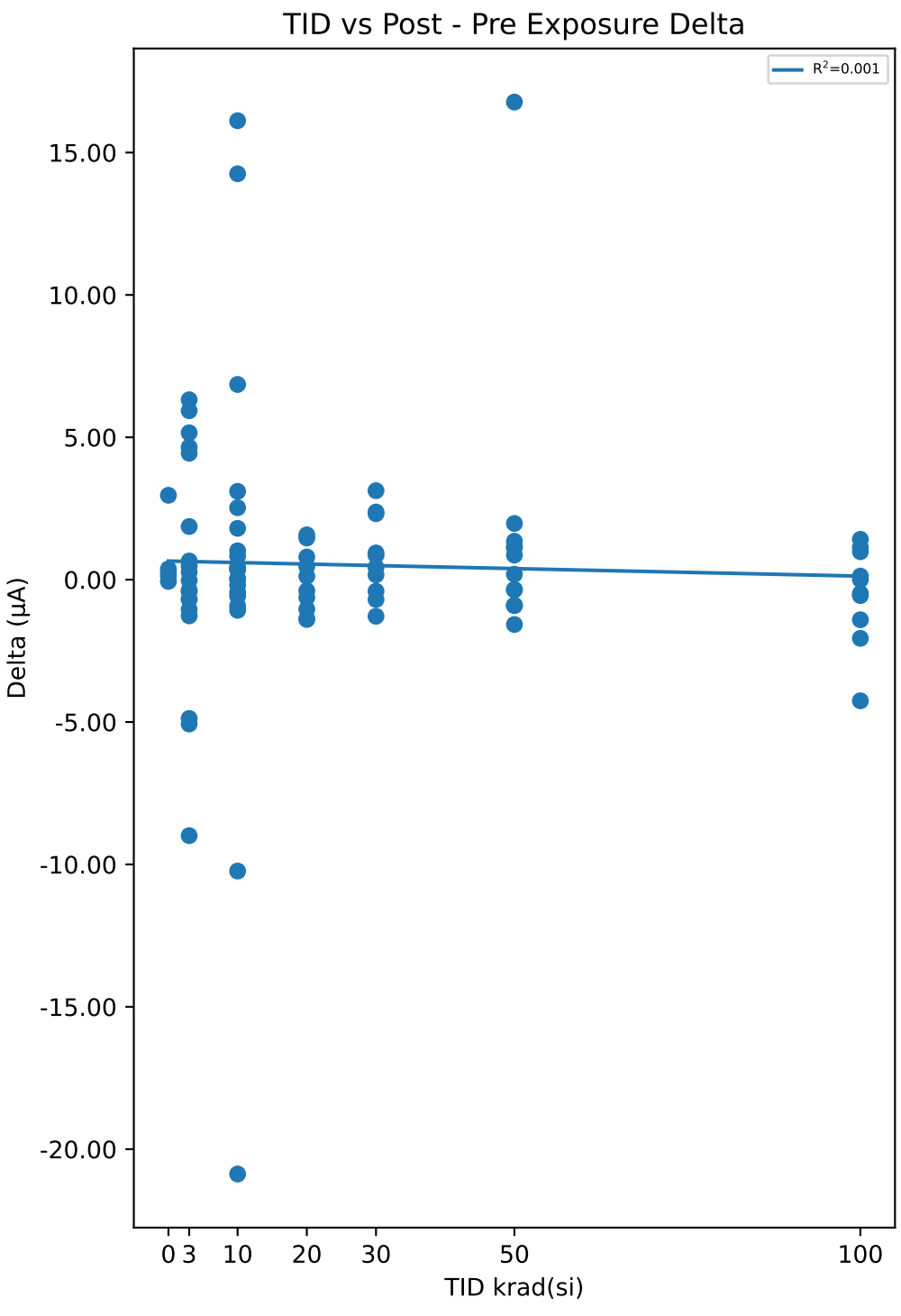


Test Statistics (nA)

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	-0.2899	-0.21484	-0.122	0.063656	-0.4282	-0.36194	-0.2996	0.052427	-0.2038	-0.1471	-0.0884	0.044772
3	-0.4166	-0.31164	-0.226	0.052095	-0.2698	-0.20038	-0.1257	0.05299	0.0329	0.11126	0.1957	0.05729
10	-0.3885	-0.32952	-0.2434	0.055018	-0.2698	-0.19939	-0.1216	0.048578	0.0342	0.13013	0.231	0.065877
20	-0.429	-0.22865	0.0094	0.12782	-0.397	-0.34063	-0.2184	0.052131	-0.284	-0.11198	0.078	0.10665
30	-0.5437	-0.32906	-0.1854	0.10505	-0.5187	-0.38525	-0.2886	0.0614	-0.1937	-0.05619	0.0718	0.090539
50	-0.4116	-0.2937	-0.1876	0.067338	-0.4501	-0.34517	-0.2746	0.06526	-0.1853	-0.05147	0.0812	0.072154
100	-0.2824	-0.07515	0.0764	0.13182	-0.4282	-0.30287	-0.1918	0.075612	-0.4122	-0.22772	-0.0375	0.13293

Device Test: 18.10 ERROR_AMP|STATIC/COMP/5////@EA_SINK





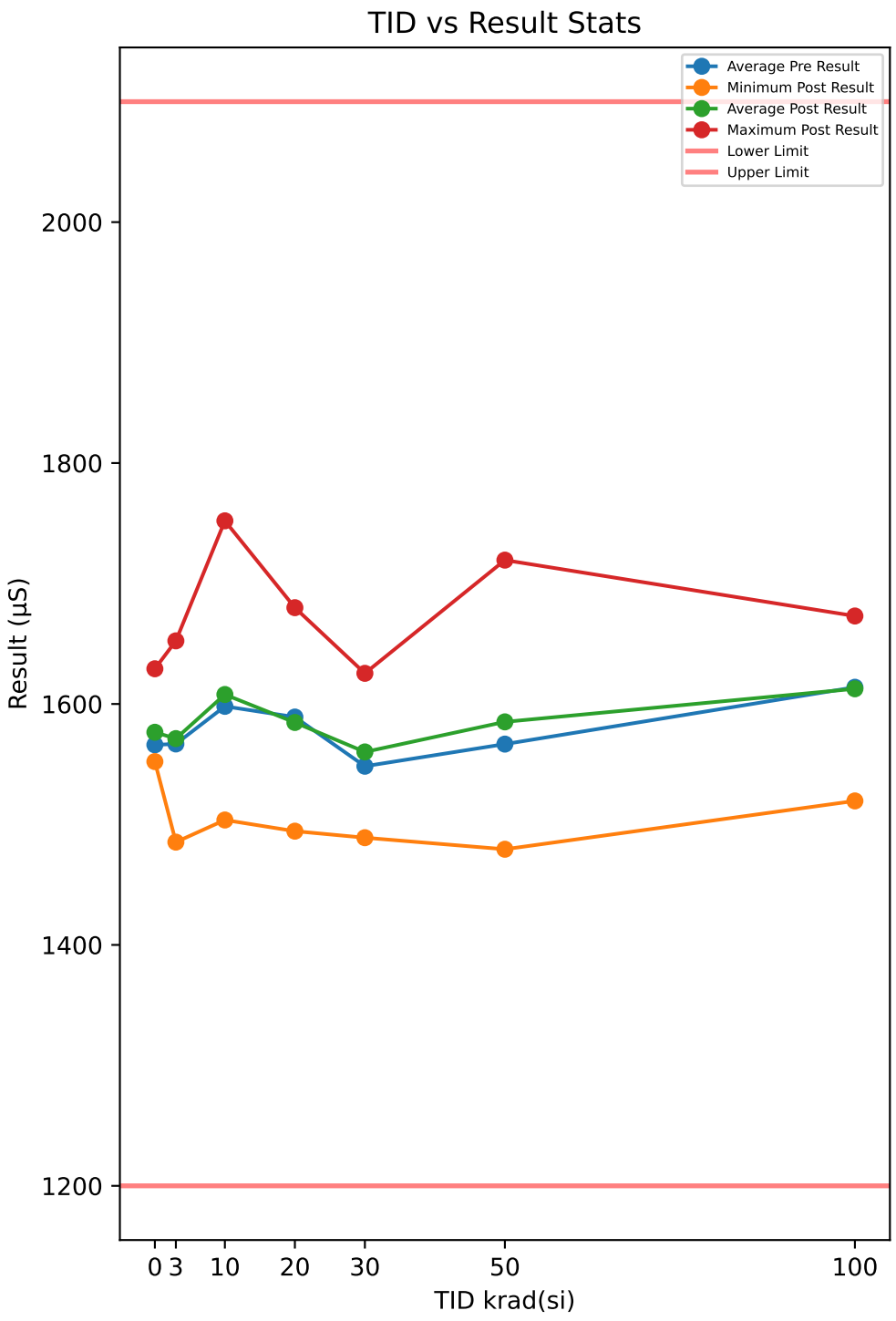
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	115.11	120.27	5.1585
51	3	Biased	127.61	133.54	5.9323
52	3	Biased	125.99	132.3	6.318
53	3	Biased	122.57	127.23	4.6533
54	3	Biased	120.3	119.25	-1.0461
55	3	Unbiased	126.21	121.14	-5.0698
56	3	Unbiased	132.38	134.25	1.8672
57	3	Unbiased	129.04	133.48	4.4397
58	3	Unbiased	132.54	127.67	-4.8742
59	3	Unbiased	137.49	128.5	-8.9895
60	10	Biased	139.87	118.99	-20.873
61	10	Biased	128.73	144.85	16.118
62	10	Biased	122.36	121.91	-0.4431
63	10	Biased	123.33	137.58	14.254
64	10	Biased	131.93	135.03	3.1009
65	10	Unbiased	123.46	122.54	-0.9212
66	10	Unbiased	118.92	125.78	6.855
67	10	Unbiased	135.69	138.22	2.5264
68	10	Unbiased	138.71	138.76	0.0442
69	10	Unbiased	135.95	125.71	-10.233
100	20	Biased	126.96	125.57	-1.3973
200	20	Biased	124.5	123.46	-1.0348
300	20	Biased	120.22	121.02	0.797
400	20	Biased	138.09	137.7	-0.3898
500	20	Biased	130.62	132.19	1.574
600	20	Unbiased	130.6	129.24	-1.3679
700	20	Unbiased	128.28	128.75	0.463
800	20	Unbiased	127.51	126.89	-0.6235
900	20	Unbiased	130.32	131.78	1.4643
1000	20	Unbiased	131.99	132.12	0.1202
1100	30	Biased	129.42	131.8	2.3758
1200	30	Biased	124.57	123.28	-1.2842
1300	30	Biased	131.43	132.36	0.9384
1400	30	Biased	129.06	129.49	0.4353
1500	30	Biased	118.08	121.2	3.1253
1600	30	Unbiased	119.03	119.2	0.1715
1700	30	Unbiased	123.77	124.63	0.8572
1800	30	Unbiased	123.28	125.6	2.3168
1900	30	Unbiased	130.5	129.81	-0.6955
2000	30	Unbiased	124.75	124.35	-0.4036
2100	50	Biased-84Hr-Anneal	129.16	130.3	1.1368
2200	50	Biased-84Hr-Anneal	117.23	134	16.772
2300	50	Biased-84Hr-Anneal	128.62	129.48	0.8636
2400	50	Biased-84Hr-Anneal	140.35	142.32	1.974
2500	50	Biased-84Hr-Anneal	125.04	126.39	1.3501
2600	50	Unbiased	131.64	130.72	-0.9108
2700	50	Unbiased	133.17	132.82	-0.3594
2800	50	Unbiased	126.92	126.58	-0.3431
2900	50	Unbiased	125.74	124.16	-1.574
3000	50	Unbiased	120.06	120.25	0.1902
4000	100	Biased-168Hr-Anneal	134.7	135.69	0.9817
4100	100	Biased-168Hr-Anneal	128.83	127.42	-1.4078
4200	100	Biased-168Hr-Anneal	131.68	133.09	1.4168
4300	100	Biased-168Hr-Anneal	125.72	126.86	1.1396
4400	100	Biased-168Hr-Anneal	134.44	134.57	0.1264
4500	100	Unbiased-168Hr-Anneal	123.13	121.07	-2.0605
4600	100	Unbiased-168Hr-Anneal	130.31	130.32	0.0022
4700	100	Unbiased-168Hr-Anneal	133.54	133.05	-0.4854
4800	100	Unbiased-168Hr-Anneal	138.09	137.54	-0.5581
4900	100	Unbiased-168Hr-Anneal	132.39	128.14	-4.2527
9300	0	CORRELATION	124.34	127.3	2.9638
9400	0	CORRELATION	124.56	124.94	0.3787
9500	0	CORRELATION	125.63	125.89	0.261
9600	0	CORRELATION	131.95	132.08	0.1347
9700	0	CORRELATION	125.84	125.78	-0.0602

Test Statistics (µA)

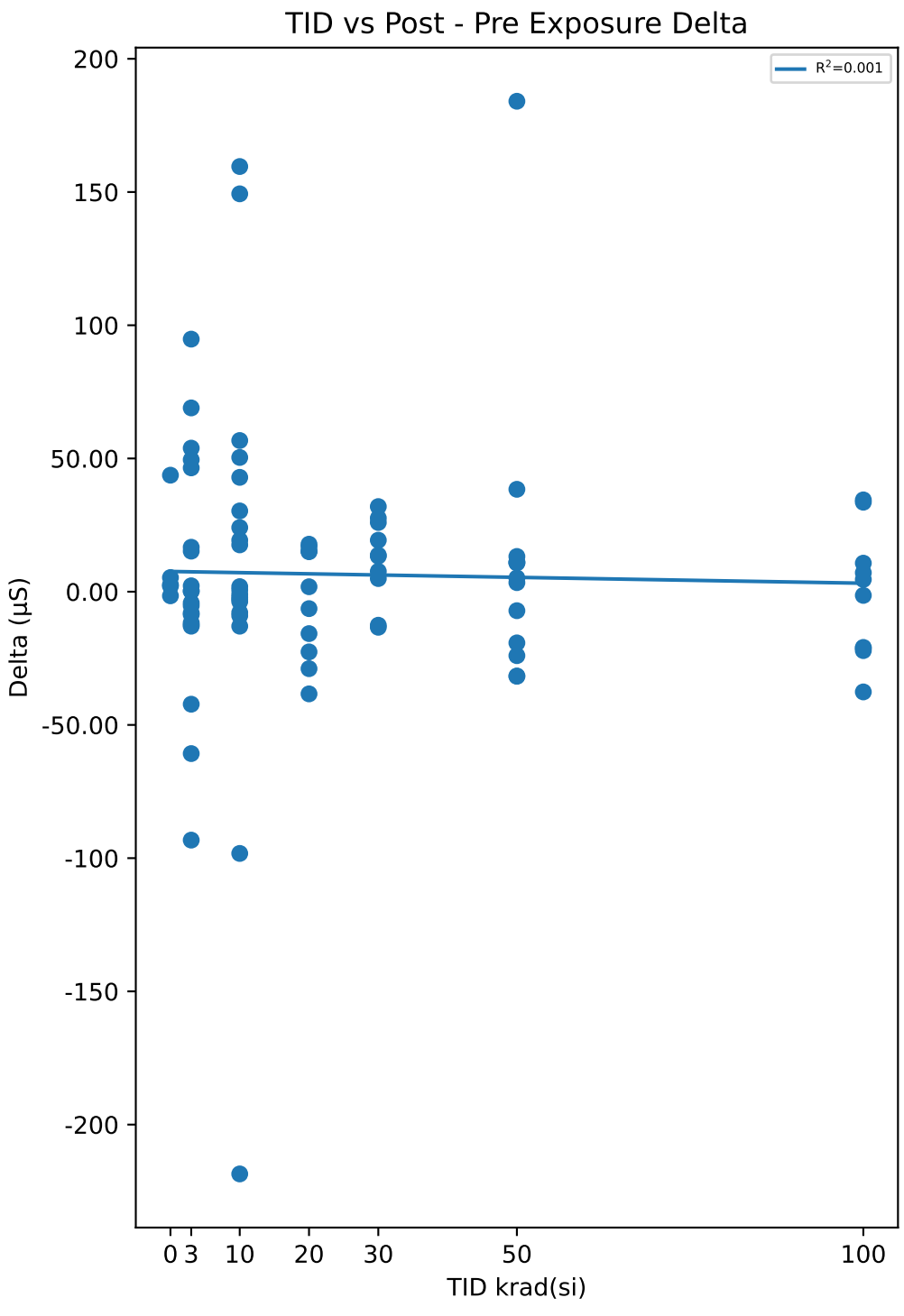
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	124.34	126.46	131.95	3.1335	124.94	127.2	132.08	2.8568	-0.0602	0.7356	2.9638	1.2562
3	115.11	126.92	137.49	6.5124	119.25	127.76	134.25	5.7946	-8.9895	0.83894	6.318	5.4863
10	118.92	129.89	139.87	7.5612	118.99	130.94	144.85	8.926	-20.873	1.0428	16.118	10.835
20	120.22	128.91	138.09	4.7449	121.02	128.87	137.7	4.8747	-1.3973	-0.03948	1.574	1.1008
30	118.08	125.39	131.43	4.6468	119.2	126.17	132.36	4.4955	-1.2842	0.7837	3.1253	1.4441
50	117.23	127.79	140.35	6.5638	120.25	129.7	142.32	6.0509	-1.574	1.9099	16.772	5.3351
100	123.13	131.28	138.09	4.4573	121.07	130.77	137.54	4.9732	-4.2527	-0.50978	1.4168	1.7175

Device Test: 18.14 EA|STATIC/COMP/12////@EA_GM_25C



Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

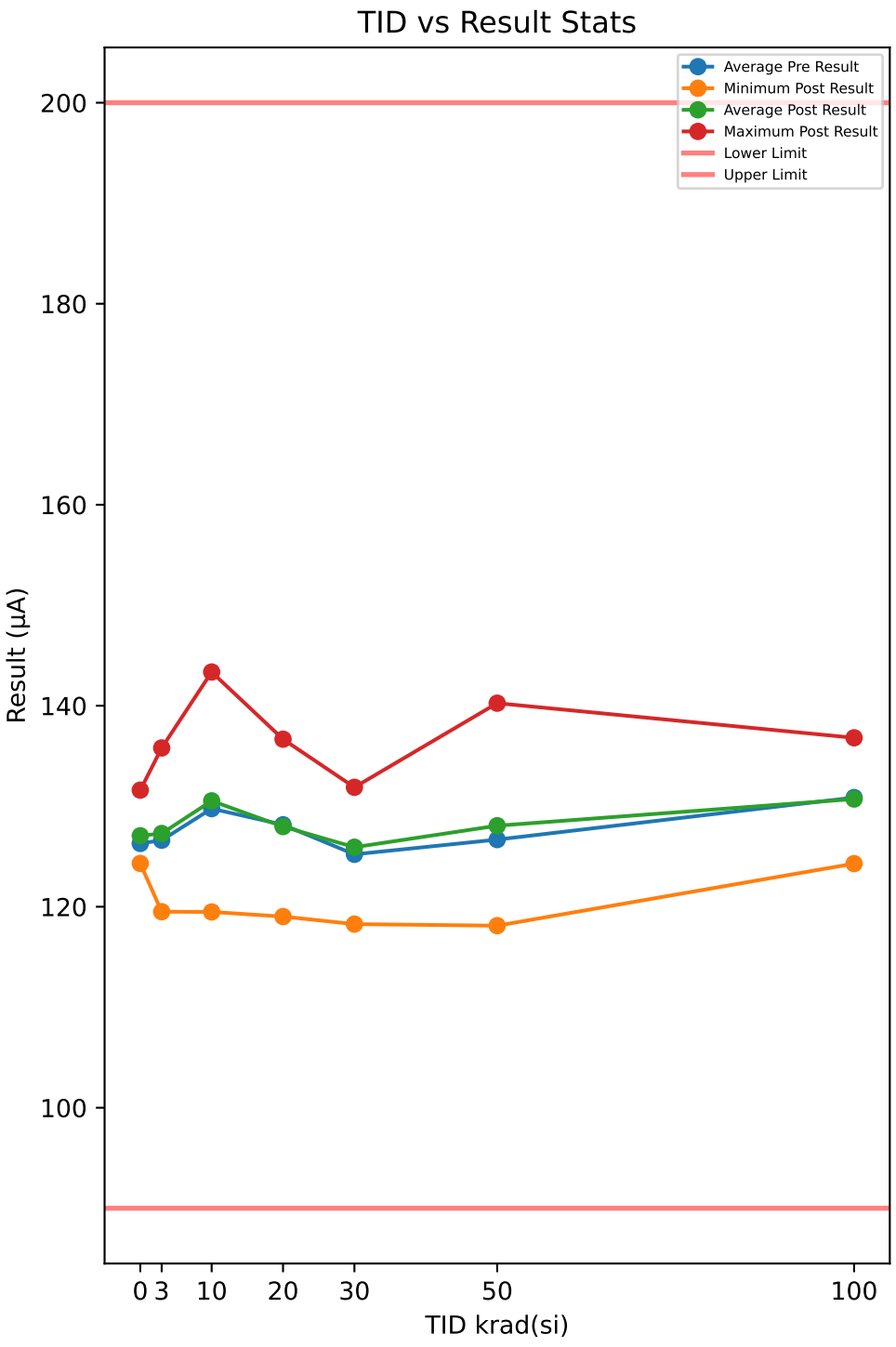
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1436.3	1490.2	53.883
51	3	Biased	1576.2	1625.8	49.534
52	3	Biased	1550.8	1619.7	68.974
53	3	Biased	1525.8	1572.2	46.476
54	3	Biased	1498.3	1485.3	-12.946
55	3	Unbiased	1534.3	1492.1	-42.226
56	3	Unbiased	1619	1635.7	16.684
57	3	Unbiased	1557.6	1652.4	94.792
58	3	Unbiased	1626.9	1566.2	-60.759
59	3	Unbiased	1666.3	1573.1	-93.233
60	10	Biased	1722.2	1503.7	-218.51
61	10	Biased	1602.7	1752	149.32
62	10	Biased	1517.5	1514.7	-2.8361
63	10	Biased	1522	1681.6	159.57
64	10	Biased	1604	1646.9	42.913
65	10	Unbiased	1515.8	1507.9	-7.8199
66	10	Unbiased	1476.5	1526.9	50.382
67	10	Unbiased	1650.7	1707.4	56.738
68	10	Unbiased	1695.2	1686.2	-9.0127
69	10	Unbiased	1649.6	1551.4	-98.233
100	20	Biased	1577.4	1539.1	-38.348
200	20	Biased	1543.4	1520.8	-22.588
300	20	Biased	1479.2	1494.4	15.212
400	20	Biased	1695.7	1679.9	-15.731
500	20	Biased	1611.9	1629.8	17.828
600	20	Unbiased	1614	1585.1	-28.89
700	20	Unbiased	1578.1	1593.1	15.001
800	20	Unbiased	1568.1	1561.7	-6.3569
900	20	Unbiased	1603	1619.8	16.838
1000	20	Unbiased	1620.7	1622.6	1.8573
1100	30	Biased	1593.3	1619.3	25.973
1200	30	Biased	1546.7	1533.3	-13.351
1300	30	Biased	1611.7	1625.4	13.725
1400	30	Biased	1577.1	1590.4	13.358
1500	30	Biased	1471.8	1503.8	31.945
1600	30	Unbiased	1469.7	1489	19.33
1700	30	Unbiased	1533.3	1540.9	7.6398
1800	30	Unbiased	1521.8	1549.5	27.625
1900	30	Unbiased	1610.5	1615.4	4.9311
2000	30	Unbiased	1547.5	1534.9	-12.586
2100	50	Biased-84Hr-Anneal	1592.2	1603	10.855
2200	50	Biased-84Hr-Anneal	1450.9	1634.9	184.06
2300	50	Biased-84Hr-Anneal	1582.2	1575	-7.1294
2400	50	Biased-84Hr-Anneal	1681	1719.4	38.426
2500	50	Biased-84Hr-Anneal	1538.9	1550.1	11.168
2600	50	Unbiased	1598	1601.4	3.4016
2700	50	Unbiased	1623.6	1628.7	5.1541
2800	50	Unbiased	1553.8	1567	13.222
2900	50	Unbiased	1547.8	1523.8	-24.004
3000	50	Unbiased	1498.6	1479.4	-19.214
4000	100	Biased-168Hr-Anneal	1635.6	1669.2	33.58
4100	100	Biased-168Hr-Anneal	1586.3	1565.1	-21.205
4200	100	Biased-168Hr-Anneal	1609.4	1620.1	10.709
4300	100	Biased-168Hr-Anneal	1541.8	1576.3	34.456
4400	100	Biased-168Hr-Anneal	1659.3	1663.9	4.5997
4500	100	Unbiased-168Hr-Anneal	1541.6	1519.5	-22.11
4600	100	Unbiased-168Hr-Anneal	1597.2	1604.3	7.1251
4700	100	Unbiased-168Hr-Anneal	1647.2	1645.8	-1.3896
4800	100	Unbiased-168Hr-Anneal	1693.9	1673	-20.912
4900	100	Unbiased-168Hr-Anneal	1626.3	1588.7	-37.615
9300	0	CORRELATION	1529.1	1572.8	43.722
9400	0	CORRELATION	1549.6	1552.2	2.6092
9500	0	CORRELATION	1571	1569.4	-1.5431
9600	0	CORRELATION	1627.1	1629.2	2.1015
9700	0	CORRELATION	1553.6	1559	5.3127

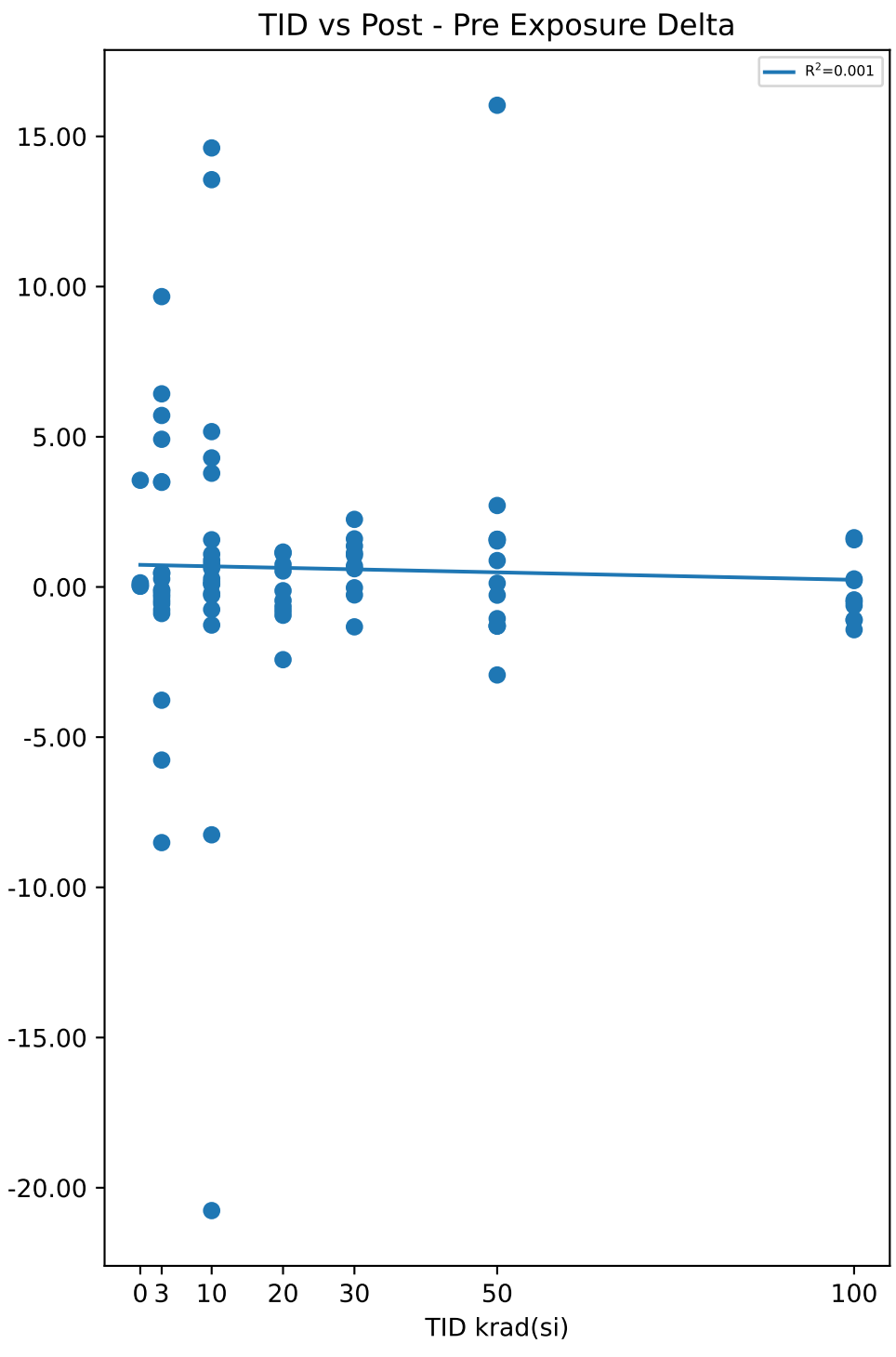


Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1529.1	1566.1	1627.1	37.229	1552.2	1576.5	1629.2	30.588	-1.5431	10.44	43.722	18.765
3	1436.3	1559.1	1666.3	67.119	1485.3	1571.3	1652.4	63.511	-93.233	12.118	94.792	61.828
10	1476.5	1595.6	1722.2	84.383	1503.7	1607.9	1752	96.067	-218.51	12.251	159.57	111.26
20	1479.2	1589.2	1695.7	56.324	1494.4	1584.6	1679.9	56.446	-38.348	-4.5179	17.828	20.977
30	1469.7	1548.3	1611.7	51.316	1489	1560.2	1625.4	49.228	-13.351	11.859	31.945	15.676
50	1450.9	1566.7	1681	64.563	1479.4	1588.3	1719.4	66.249	-24.004	21.594	184.06	59.763
100	1541.6	1613.9	1693.9	49.084	1519.5	1612.6	1673	51.136	-37.615	-1.2762	34.456	24.216

Device Test: 18.15 ERROR_AMP|STATIC/COMP/12////@EA_SOURCE





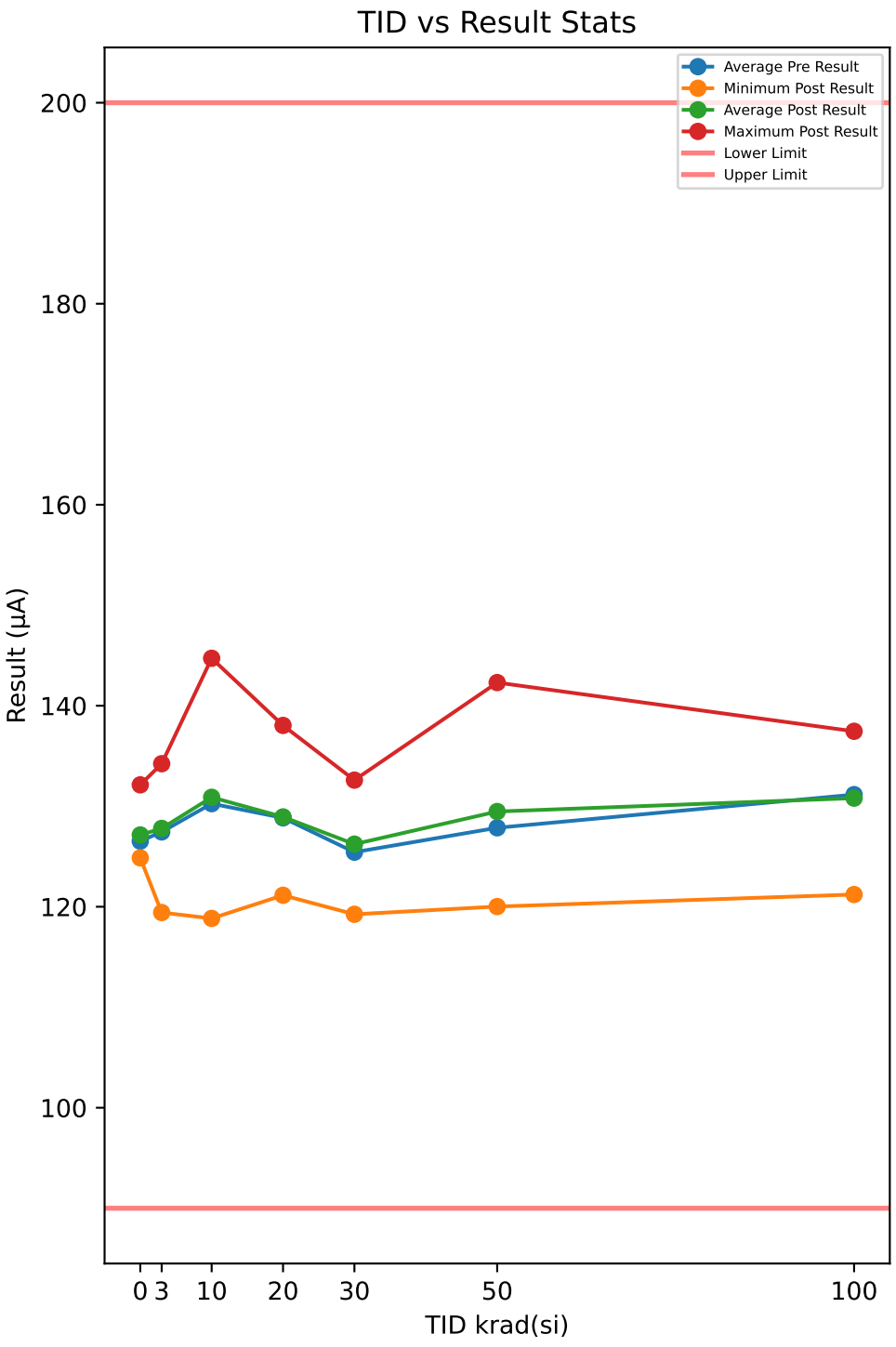
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	114.41	120.12	5.7097
51	3	Biased	126.95	131.86	4.9164
52	3	Biased	125.24	131.67	6.4297
53	3	Biased	122.94	126.42	3.4831
54	3	Biased	120.39	119.51	-0.8841
55	3	Unbiased	124.21	120.44	-3.7704
56	3	Unbiased	129.81	133.32	3.504
57	3	Unbiased	126.13	135.8	9.6656
58	3	Unbiased	132.78	127.01	-5.7619
59	3	Unbiased	135.23	126.72	-8.5109
60	10	Biased	140.24	119.48	-20.761
61	10	Biased	129.8	143.36	13.559
62	10	Biased	122.84	122.09	-0.7499
63	10	Biased	123.9	138.51	14.615
64	10	Biased	130.03	133.82	3.7859
65	10	Unbiased	121.09	122.66	1.571
66	10	Unbiased	117.75	122.92	5.1714
67	10	Unbiased	135.4	139.7	4.2966
68	10	Unbiased	135.91	136.19	0.2774
69	10	Unbiased	134.89	126.64	-8.2513
100	20	Biased	126.45	124.03	-2.4206
200	20	Biased	124.28	123.49	-0.7937
300	20	Biased	118.49	119.02	0.5313
400	20	Biased	136.8	136.67	-0.1248
500	20	Biased	128.89	129.64	0.748
600	20	Unbiased	128.76	127.82	-0.9416
700	20	Unbiased	128.93	130.09	1.162
800	20	Unbiased	126.38	125.73	-0.6508
900	20	Unbiased	131.04	132.16	1.1208
1000	20	Unbiased	131.54	131.09	-0.4524
1100	30	Biased	128.62	130.22	1.6005
1200	30	Biased	125.62	124.29	-1.3275
1300	30	Biased	131.28	131.89	0.6078
1400	30	Biased	127.78	129.14	1.3645
1500	30	Biased	119.52	121.77	2.2502
1600	30	Unbiased	118.54	118.27	-0.2651
1700	30	Unbiased	123.1	123.8	0.7013
1800	30	Unbiased	122.73	123.79	1.0559
1900	30	Unbiased	129.74	130.87	1.1291
2000	30	Unbiased	125.23	125.2	-0.0267
2100	50	Biased-84Hr-Anneal	127.23	128.82	1.5867
2200	50	Biased-84Hr-Anneal	116.88	132.91	16.036
2300	50	Biased-84Hr-Anneal	127.33	126.04	-1.2902
2400	50	Biased-84Hr-Anneal	137.54	140.25	2.712
2500	50	Biased-84Hr-Anneal	125.34	125.07	-0.2725
2600	50	Unbiased	128.98	129.86	0.8787
2700	50	Unbiased	133.09	134.62	1.5314
2800	50	Unbiased	126.21	126.33	0.1248
2900	50	Unbiased	125.04	122.11	-2.9299
3000	50	Unbiased	119.17	118.12	-1.0552
4000	100	Biased-168Hr-Anneal	133.88	132.77	-1.1014
4100	100	Biased-168Hr-Anneal	128.09	128.3	0.2133
4200	100	Biased-168Hr-Anneal	130.41	129.98	-0.4305
4300	100	Biased-168Hr-Anneal	122.99	124.63	1.6388
4400	100	Biased-168Hr-Anneal	134.98	136.56	1.5714
4500	100	Unbiased-168Hr-Anneal	125.71	124.29	-1.4233
4600	100	Unbiased-168Hr-Anneal	130.46	129.96	-0.501
4700	100	Unbiased-168Hr-Anneal	133.32	133.59	0.2674
4800	100	Unbiased-168Hr-Anneal	137.9	136.81	-1.0945
4900	100	Unbiased-168Hr-Anneal	130.9	130.28	-0.6194
9300	0	CORRELATION	122.99	126.54	3.5523
9400	0	CORRELATION	124.28	124.31	0.0278
9500	0	CORRELATION	126.52	126.6	0.087
9600	0	CORRELATION	131.47	131.6	0.1369
9700	0	CORRELATION	126.23	126.26	0.0244

Test Statistics (µA)

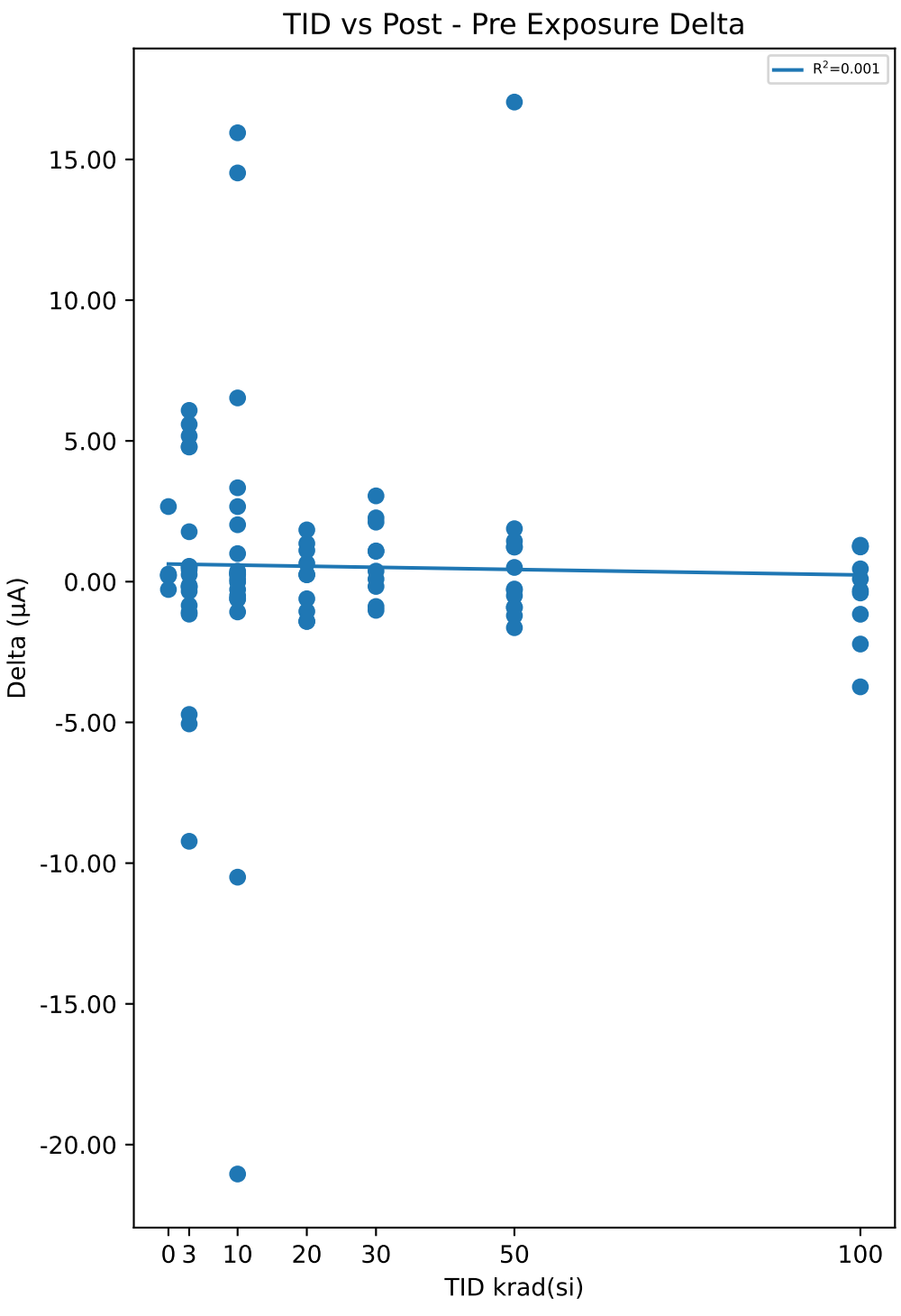
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	122.99	126.3	131.47	3.2324	124.31	127.06	131.6	2.7083	0.0244	0.76568	3.5523	1.5585
3	114.41	125.81	135.23	6.0105	119.51	127.29	135.8	5.859	-8.5109	1.4781	9.6656	5.9135
10	117.75	129.18	140.24	7.4858	119.48	130.54	143.36	8.7132	-20.761	1.3515	14.615	10.225
20	118.49	128.16	136.8	4.8361	119.02	127.97	136.67	5.0672	-2.4206	-0.18218	1.162	1.1124
30	118.54	125.21	131.28	4.2586	118.27	125.92	131.89	4.4333	-1.3275	0.709	2.2502	1.0298
50	116.88	126.68	137.54	5.9831	118.12	128.41	140.25	6.3951	-2.9299	1.7322	16.036	5.2872
100	122.99	130.87	137.9	4.4492	124.29	130.72	136.81	4.3349	-1.4233	-0.14792	1.6388	1.0703

Device Test: 18.16 ERROR_AMP|STATIC/COMP/12////@EA_SINK



Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

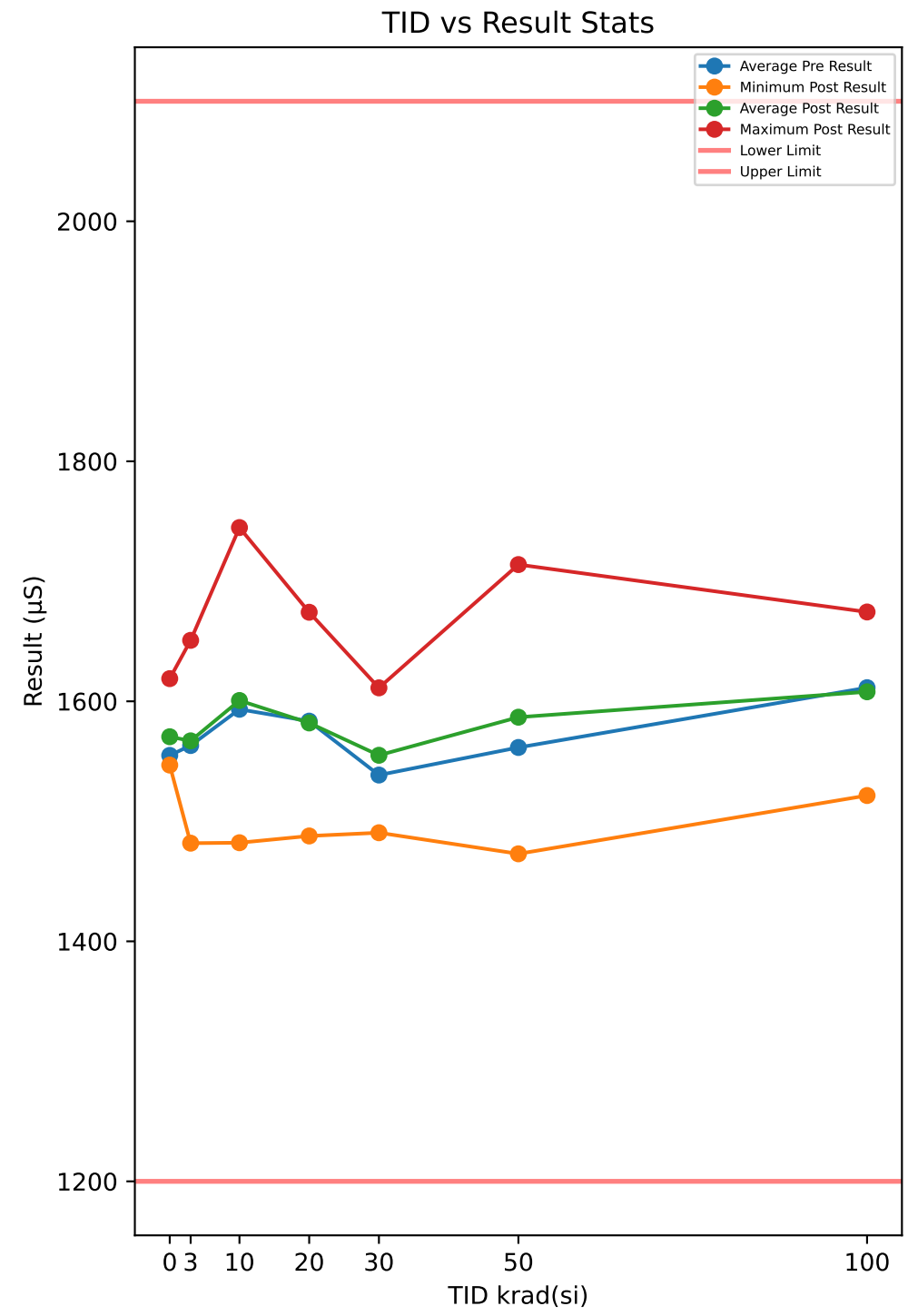
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	115.13	120.3	5.1742
51	3	Biased	127.77	133.36	5.5885
52	3	Biased	126.19	132.27	6.0839
53	3	Biased	122.7	127.49	4.7942
54	3	Biased	120.58	119.42	-1.1549
55	3	Unbiased	126.17	121.12	-5.0542
56	3	Unbiased	132.46	134.23	1.7735
57	3	Unbiased	128.93	133.72	4.7833
58	3	Unbiased	132.39	127.67	-4.718
59	3	Unbiased	137.58	128.36	-9.2244
60	10	Biased	139.88	118.84	-21.045
61	10	Biased	128.78	144.72	15.946
62	10	Biased	122.3	121.69	-0.6001
63	10	Biased	123.27	137.79	14.52
64	10	Biased	131.87	135.2	3.3352
65	10	Unbiased	123.32	122.7	-0.6242
66	10	Unbiased	118.92	125.45	6.5267
67	10	Unbiased	135.49	138.15	2.6668
68	10	Unbiased	138.71	138.69	-0.0183
69	10	Unbiased	136.16	125.67	-10.498
100	20	Biased	127	125.58	-1.413
200	20	Biased	124.65	123.24	-1.4091
300	20	Biased	120.03	121.14	1.1095
400	20	Biased	137.79	138.04	0.2495
500	20	Biased	130.49	132.33	1.839
600	20	Unbiased	130.64	129.58	-1.0553
700	20	Unbiased	128.22	128.87	0.6503
800	20	Unbiased	127.39	126.78	-0.6079
900	20	Unbiased	130.4	131.75	1.3551
1000	20	Unbiased	131.81	132.05	0.2452
1100	30	Biased	129.44	131.71	2.2667
1200	30	Biased	124.63	123.61	-1.0184
1300	30	Biased	131.52	132.6	1.0788
1400	30	Biased	129.25	129.34	0.092
1500	30	Biased	118.16	121.2	3.0472
1600	30	Unbiased	118.88	119.25	0.3743
1700	30	Unbiased	123.59	124.68	1.0909
1800	30	Unbiased	123.37	125.49	2.1137
1900	30	Unbiased	130.63	129.74	-0.8829
2000	30	Unbiased	124.85	124.68	-0.1698
2100	50	Biased-84Hr-Anneal	129.01	130.24	1.2305
2200	50	Biased-84Hr-Anneal	117.31	134.35	17.037
2300	50	Biased-84Hr-Anneal	128.57	129.07	0.5051
2400	50	Biased-84Hr-Anneal	140.42	142.3	1.8803
2500	50	Biased-84Hr-Anneal	124.98	126.42	1.4439
2600	50	Unbiased	131.73	130.52	-1.2071
2700	50	Unbiased	133.32	132.82	-0.5
2800	50	Unbiased	127.11	126.81	-0.2963
2900	50	Unbiased	125.83	124.2	-1.6363
3000	50	Unbiased	120.28	120.02	-0.2629
4000	100	Biased-168Hr-Anneal	134.45	135.75	1.2939
4100	100	Biased-168Hr-Anneal	128.66	127.5	-1.158
4200	100	Biased-168Hr-Anneal	131.68	132.92	1.2454
4300	100	Biased-168Hr-Anneal	125.36	126.59	1.2338
4400	100	Biased-168Hr-Anneal	134.35	134.8	0.4545
4500	100	Unbiased-168Hr-Anneal	123.43	121.21	-2.2169
4600	100	Unbiased-168Hr-Anneal	130.25	130.35	0.096
4700	100	Unbiased-168Hr-Anneal	133.36	133.05	-0.3137
4800	100	Unbiased-168Hr-Anneal	137.86	137.46	-0.4017
4900	100	Unbiased-168Hr-Anneal	132.16	128.42	-3.7379
9300	0	CORRELATION	124.48	127.14	2.6673
9400	0	CORRELATION	124.59	124.86	0.2694
9500	0	CORRELATION	125.71	125.92	0.214
9600	0	CORRELATION	131.91	132.13	0.2128
9700	0	CORRELATION	125.94	125.66	-0.2787

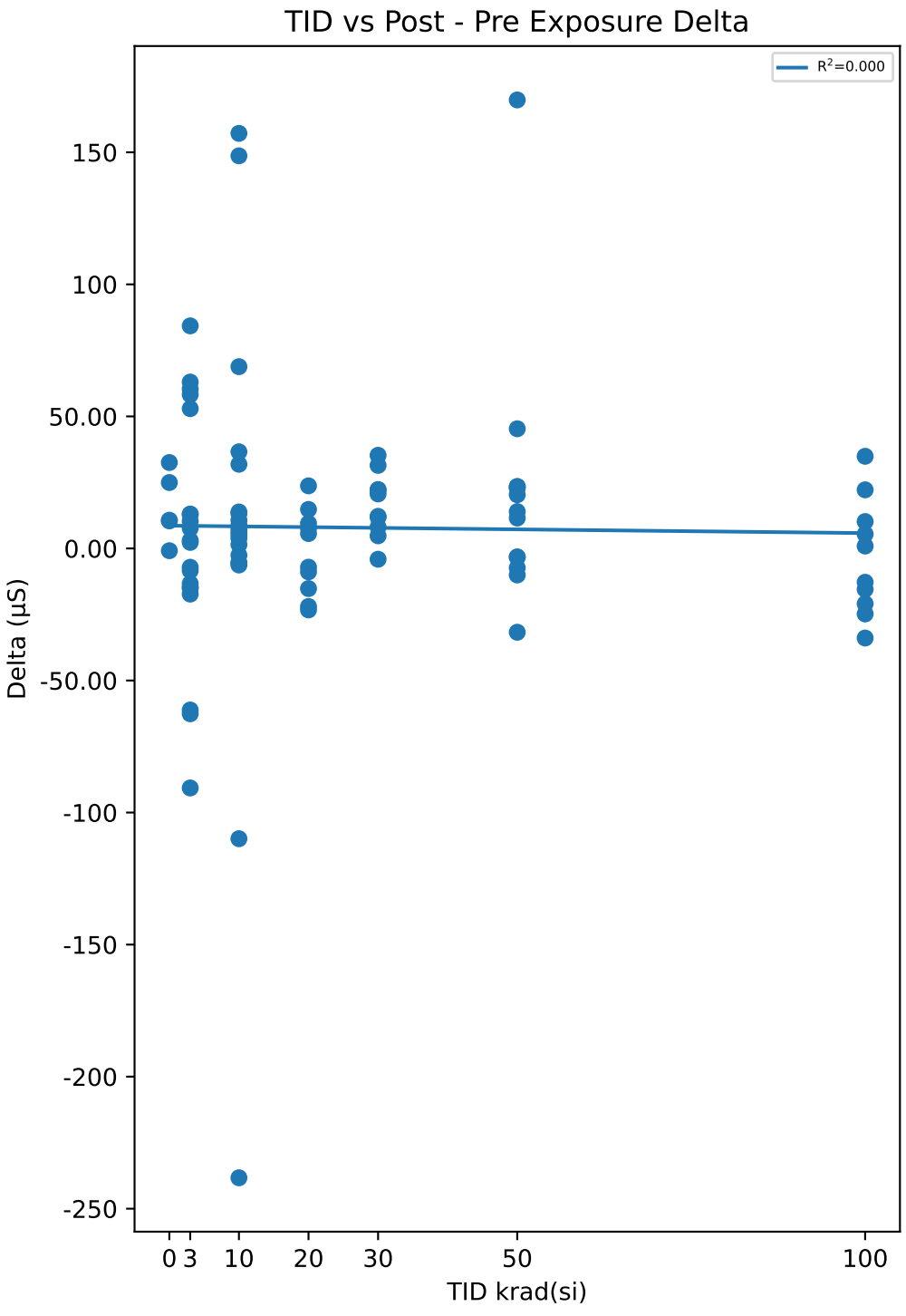


Test Statistics (µA)

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	124.48	126.53	131.91	3.0817	124.86	127.14	132.13	2.9039	-0.2787	0.61696	2.6673	1.1675
3	115.13	126.99	137.58	6.4737	119.42	127.79	134.23	5.7614	-9.2244	0.80461	6.0839	5.4953
10	118.92	129.87	139.88	7.5899	118.84	130.89	144.72	8.9754	-21.045	1.0209	15.946	10.9
20	120.03	128.84	137.79	4.6939	121.14	128.94	138.04	4.9611	-1.413	0.09633	1.839	1.1722
30	118.16	125.43	131.52	4.7046	119.25	126.23	132.6	4.4568	-1.0184	0.79925	3.0472	1.3683
50	117.31	127.86	140.42	6.5504	120.02	129.67	142.3	6.0975	-1.6363	1.8194	17.037	5.468
100	123.43	131.16	137.86	4.3773	121.21	130.81	137.46	4.9522	-3.7379	-0.35046	1.2939	1.6405

Device Test: 18.2 EA|STATIC/COMP/4.5////@EA_GM_25C





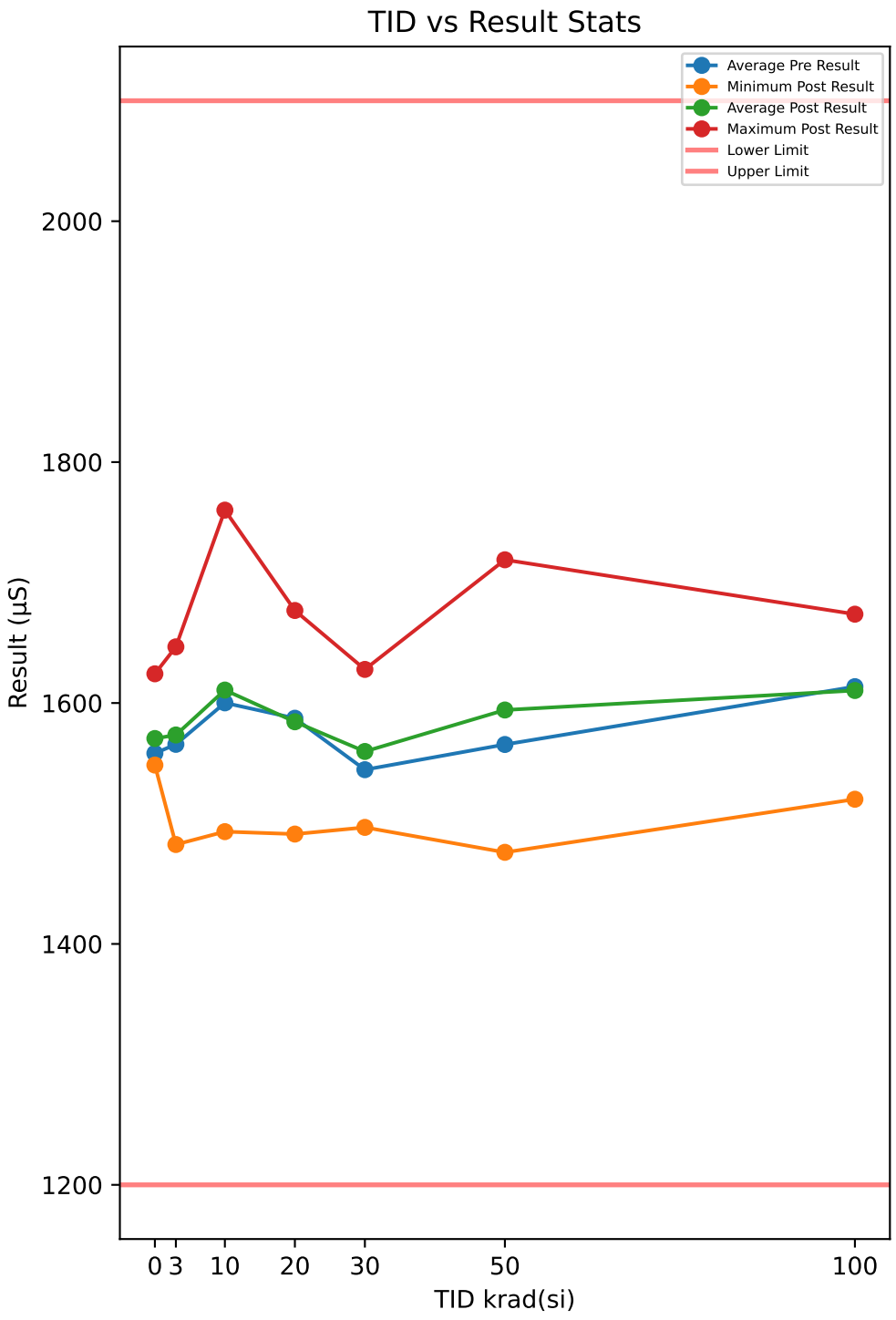
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1426.1	1486.5	60.395
51	3	Biased	1562.6	1620.9	58.25
52	3	Biased	1548.3	1611.3	63.005
53	3	Biased	1524.8	1577.7	52.939
54	3	Biased	1499.8	1485.1	-14.644
55	3	Unbiased	1543	1481.8	-61.168
56	3	Unbiased	1618.3	1626	7.6537
57	3	Unbiased	1566.5	1650.8	84.282
58	3	Unbiased	1623.8	1561.2	-62.602
59	3	Unbiased	1660	1569.3	-90.685
60	10	Biased	1720.4	1482.2	-238.29
61	10	Biased	1587.6	1744.8	157.17
62	10	Biased	1510.9	1512.4	1.4574
63	10	Biased	1530.5	1679.2	148.67
64	10	Biased	1611	1624.2	13.202
65	10	Unbiased	1515.5	1509.3	-6.2647
66	10	Unbiased	1470.4	1539.2	68.832
67	10	Unbiased	1647.2	1683.8	36.592
68	10	Unbiased	1675.7	1682.1	6.4344
69	10	Unbiased	1659.6	1549.7	-109.9
100	20	Biased	1559.1	1537.1	-21.968
200	20	Biased	1539.4	1524.2	-15.194
300	20	Biased	1478.3	1487.8	9.5044
400	20	Biased	1683.1	1674.2	-8.8595
500	20	Biased	1606.5	1621.2	14.786
600	20	Unbiased	1605	1581.7	-23.273
700	20	Unbiased	1571.8	1595.5	23.707
800	20	Unbiased	1559.2	1552.1	-7.0966
900	20	Unbiased	1613.7	1621.4	7.6493
1000	20	Unbiased	1618.9	1624.6	5.6434
1100	30	Biased	1571.4	1606.7	35.274
1200	30	Biased	1541.4	1537.3	-4.0819
1300	30	Biased	1588.9	1611.2	22.317
1400	30	Biased	1572.4	1577.2	4.7895
1500	30	Biased	1473.8	1505.3	31.459
1600	30	Unbiased	1478.3	1490.5	12.155
1700	30	Unbiased	1520.4	1532.3	11.859
1800	30	Unbiased	1520.3	1540.9	20.638
1900	30	Unbiased	1586.6	1608.8	22.16
2000	30	Unbiased	1532	1540.1	8.1285
2100	50	Biased-84Hr-Anneal	1579.2	1602.6	23.419
2200	50	Biased-84Hr-Anneal	1455.2	1625	169.83
2300	50	Biased-84Hr-Anneal	1578.8	1571.4	-7.3271
2400	50	Biased-84Hr-Anneal	1668.6	1713.9	45.318
2500	50	Biased-84Hr-Anneal	1529.3	1552.1	22.807
2600	50	Unbiased	1602.2	1613.7	11.511
2700	50	Unbiased	1622.2	1636.2	13.954
2800	50	Unbiased	1552.2	1572.5	20.339
2900	50	Unbiased	1544.7	1513	-31.728
3000	50	Unbiased	1483	1472.9	-10.044
4000	100	Biased-168Hr-Anneal	1641.1	1663.3	22.2
4100	100	Biased-168Hr-Anneal	1571	1571.9	0.9126
4200	100	Biased-168Hr-Anneal	1610.9	1616.4	5.4088
4300	100	Biased-168Hr-Anneal	1529	1563.9	34.892
4400	100	Biased-168Hr-Anneal	1665.7	1650.2	-15.474
4500	100	Unbiased-168Hr-Anneal	1546.3	1521.5	-24.8
4600	100	Unbiased-168Hr-Anneal	1601.6	1588.8	-12.8
4700	100	Unbiased-168Hr-Anneal	1628.3	1638.5	10.185
4800	100	Unbiased-168Hr-Anneal	1695.4	1674.4	-20.931
4900	100	Unbiased-168Hr-Anneal	1624.3	1590.4	-33.913
9300	0	CORRELATION	1530.9	1563.5	32.535
9400	0	CORRELATION	1538.6	1549.3	10.699
9500	0	CORRELATION	1548.9	1573.8	24.955
9600	0	CORRELATION	1608.5	1618.9	10.438
9700	0	CORRELATION	1547.7	1546.9	-0.849

Test Statistics (µS)

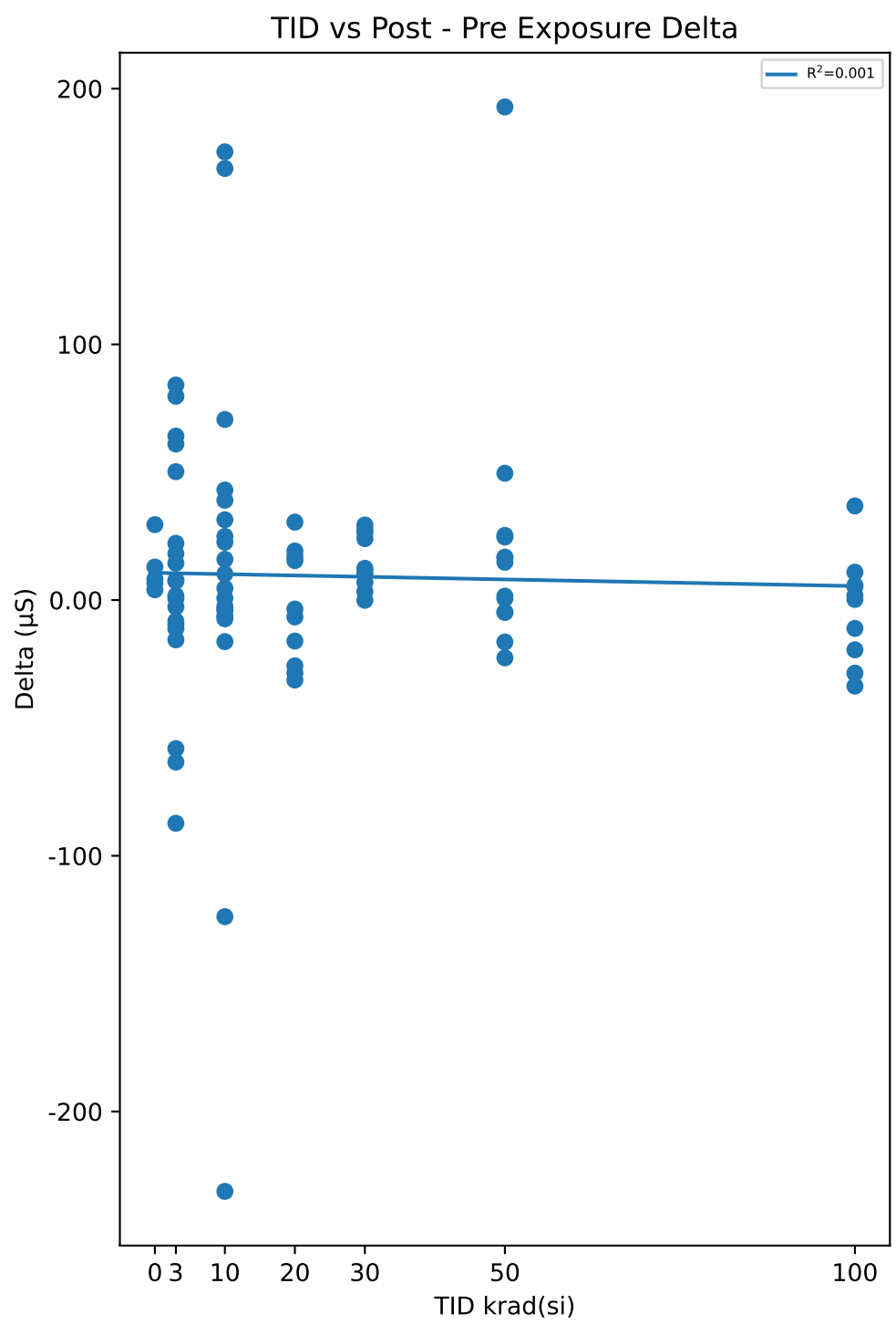
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1530.9	1554.9	1608.5	30.807	1546.9	1570.5	1618.9	29.195	-0.849	15.555	32.535	13.186
3	1426.1	1557.3	1660	67.229	1481.8	1567.1	1650.8	63.216	-90.685	9.7426	84.282	63.355
10	1470.4	1592.9	1720.4	83.318	1482.2	1600.7	1744.8	92.851	-238.29	7.7897	157.17	116.14
20	1478.3	1583.5	1683.1	55.188	1487.8	1582	1674.2	56.486	-23.273	-1.5101	23.707	16.064
30	1473.8	1538.6	1588.9	41.631	1490.5	1555	1611.2	43.583	-4.0819	16.47	35.274	12.158
50	1455.2	1561.5	1668.6	63.512	1472.9	1587.3	1713.9	67.567	-31.728	25.808	169.83	54.982
100	1529	1611.4	1695.4	51.727	1521.5	1607.9	1674.4	49.057	-33.913	-3.4319	34.892	21.942

Device Test: 18.20 EA|STATIC/COMP/14////@EA_GM_25C



Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

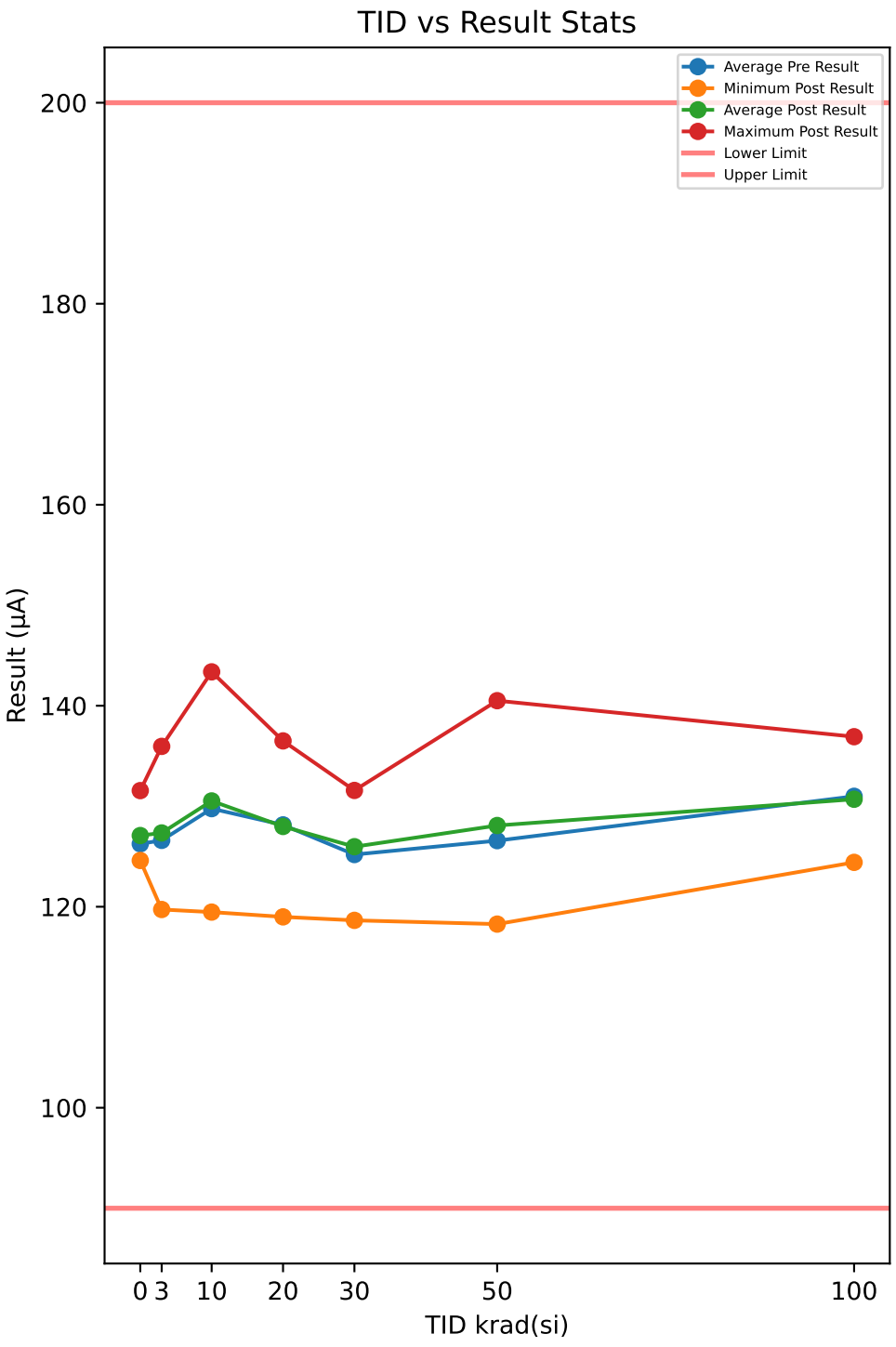
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1436.2	1500.3	64.11
51	3	Biased	1579.6	1629.8	50.216
52	3	Biased	1543.2	1627.3	84.096
53	3	Biased	1514.6	1575.6	61.028
54	3	Biased	1498.1	1482.5	-15.528
55	3	Unbiased	1551.5	1493.4	-58.095
56	3	Unbiased	1620.3	1642.5	22.208
57	3	Unbiased	1566.9	1646.6	79.694
58	3	Unbiased	1625.4	1562	-63.347
59	3	Unbiased	1661.8	1574.5	-87.284
60	10	Biased	1724.5	1493.2	-231.23
61	10	Biased	1584.8	1760.1	175.29
62	10	Biased	1530.2	1513.9	-16.245
63	10	Biased	1529.7	1698.6	168.81
64	10	Biased	1614.7	1653.8	39.037
65	10	Unbiased	1515.4	1512.9	-2.4119
66	10	Unbiased	1474.8	1545.4	70.643
67	10	Unbiased	1656	1699	43.042
68	10	Unbiased	1686.2	1682.1	-4.108
69	10	Unbiased	1672.3	1548.5	-123.81
100	20	Biased	1573	1541.7	-31.274
200	20	Biased	1540.8	1524.8	-16.026
300	20	Biased	1472	1491.2	19.2
400	20	Biased	1702.5	1676.8	-25.712
500	20	Biased	1605.6	1621	15.443
600	20	Unbiased	1609.8	1581.3	-28.517
700	20	Unbiased	1574.9	1592	17.082
800	20	Unbiased	1572.3	1565.7	-6.5881
900	20	Unbiased	1595.6	1626	30.48
1000	20	Unbiased	1627.2	1623.7	-3.5195
1100	30	Biased	1582.4	1611.7	29.353
1200	30	Biased	1537	1536.9	-0.0775
1300	30	Biased	1617.9	1627.9	9.9844
1400	30	Biased	1581.3	1588.3	6.9609
1500	30	Biased	1476.8	1504.3	27.536
1600	30	Unbiased	1470.4	1496.7	26.347
1700	30	Unbiased	1527.1	1538.5	11.357
1800	30	Unbiased	1519.5	1531.9	12.425
1900	30	Unbiased	1590.3	1614.3	24.031
2000	30	Unbiased	1543.8	1547.2	3.3315
2100	50	Biased-84Hr-Anneal	1591.5	1608.3	16.737
2200	50	Biased-84Hr-Anneal	1448.9	1641.7	192.86
2300	50	Biased-84Hr-Anneal	1576.9	1578.4	1.5354
2400	50	Biased-84Hr-Anneal	1669.3	1718.9	49.59
2500	50	Biased-84Hr-Anneal	1529.9	1555.2	25.286
2600	50	Unbiased	1598.3	1613	14.775
2700	50	Unbiased	1620.2	1644.9	24.654
2800	50	Unbiased	1569.4	1570	0.6095
2900	50	Unbiased	1552.7	1536.3	-16.408
3000	50	Unbiased	1498.6	1476	-22.599
4000	100	Biased-168Hr-Anneal	1651.7	1657.5	5.7763
4100	100	Biased-168Hr-Anneal	1581.8	1570.7	-11.084
4200	100	Biased-168Hr-Anneal	1607	1617.9	10.91
4300	100	Biased-168Hr-Anneal	1534.6	1571.5	36.813
4400	100	Biased-168Hr-Anneal	1651.9	1653.7	1.7748
4500	100	Unbiased-168Hr-Anneal	1548.7	1520.1	-28.584
4600	100	Unbiased-168Hr-Anneal	1604	1609.2	5.2075
4700	100	Unbiased-168Hr-Anneal	1640.1	1640.3	0.2566
4800	100	Unbiased-168Hr-Anneal	1693.2	1673.7	-19.451
4900	100	Unbiased-168Hr-Anneal	1623	1589.3	-33.639
9300	0	CORRELATION	1538.7	1568.2	29.506
9400	0	CORRELATION	1540.2	1548.5	8.2595
9500	0	CORRELATION	1559.1	1563.2	4.0385
9600	0	CORRELATION	1611.3	1624.3	12.924
9700	0	CORRELATION	1541.9	1548.5	6.6459

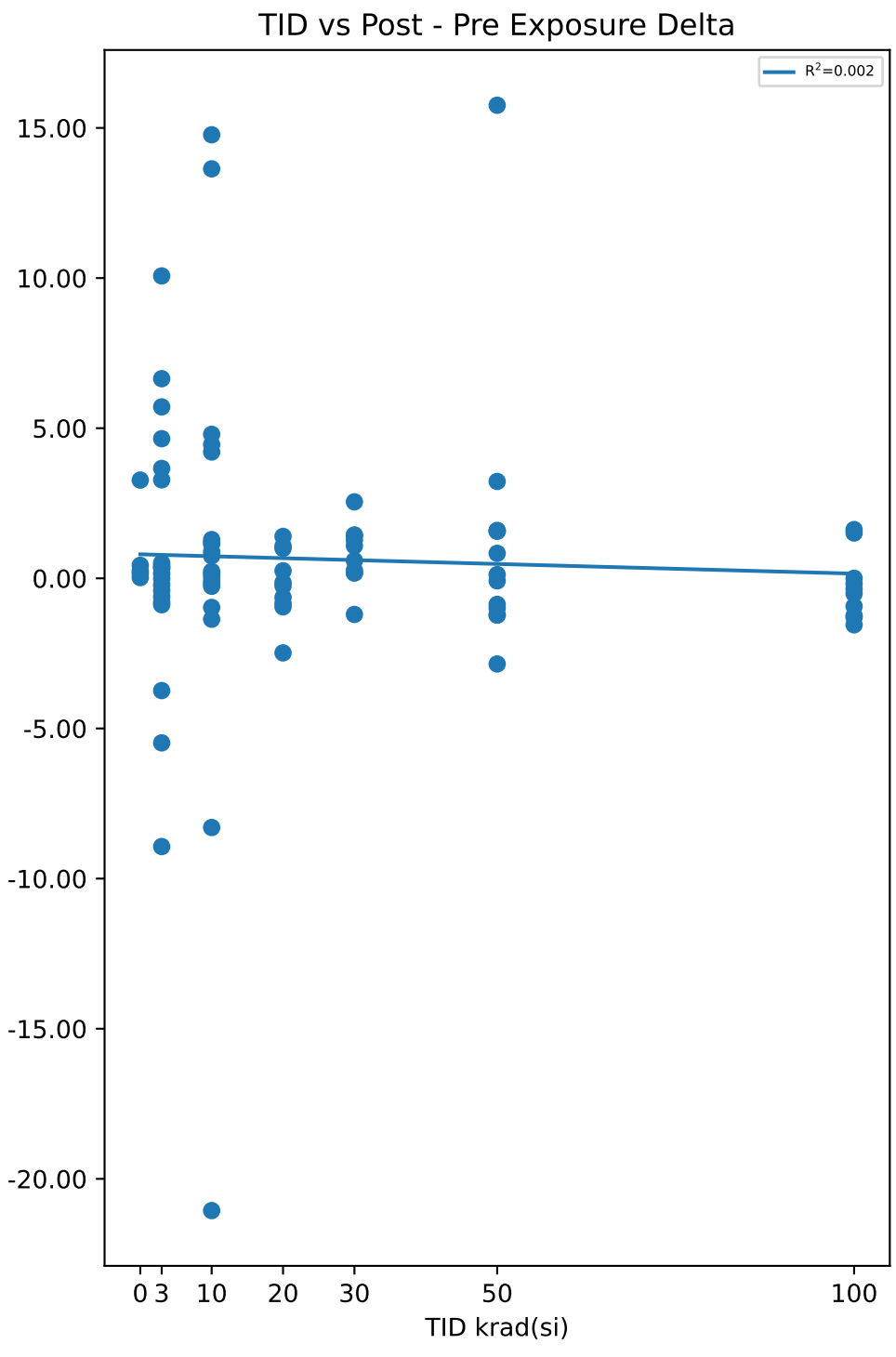


Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1538.7	1558.3	1611.3	30.792	1548.5	1570.5	1624.3	31.288	4.0385	12.275	29.506	10.161
3	1436.2	1559.8	1661.8	66.916	1482.5	1573.5	1646.6	63.567	-87.284	13.71	84.096	64.67
10	1474.8	1598.9	1724.5	84.569	1493.2	1610.8	1760.1	97.555	-231.23	11.9	175.29	122.59
20	1472	1587.4	1702.5	59.46	1491.2	1584.4	1676.8	55.419	-31.274	-2.9431	30.48	22.376
30	1470.4	1544.7	1617.9	48.684	1496.7	1559.8	1627.9	47.236	-0.0775	15.125	29.353	10.783
50	1448.9	1565.6	1669.3	62.512	1476	1594.3	1718.9	67.171	-22.599	28.704	192.86	61.412
100	1534.6	1613.6	1693.2	49.032	1520.1	1610.4	1673.7	48.007	-33.639	-3.202	36.813	20.777

Device Test: 18.21 ERROR_AMP|STATIC/COMP/14////@EA_SOURCE





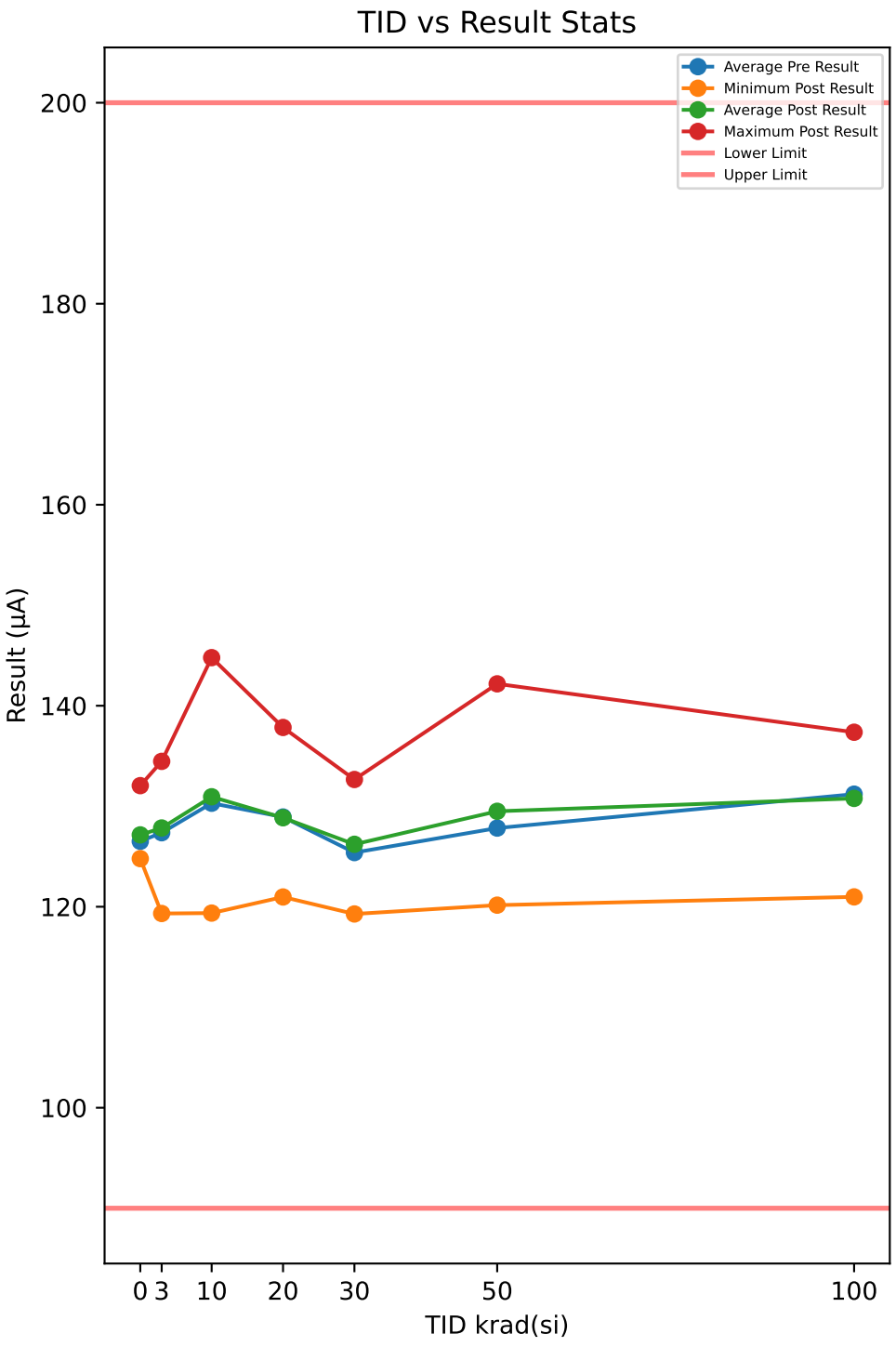
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

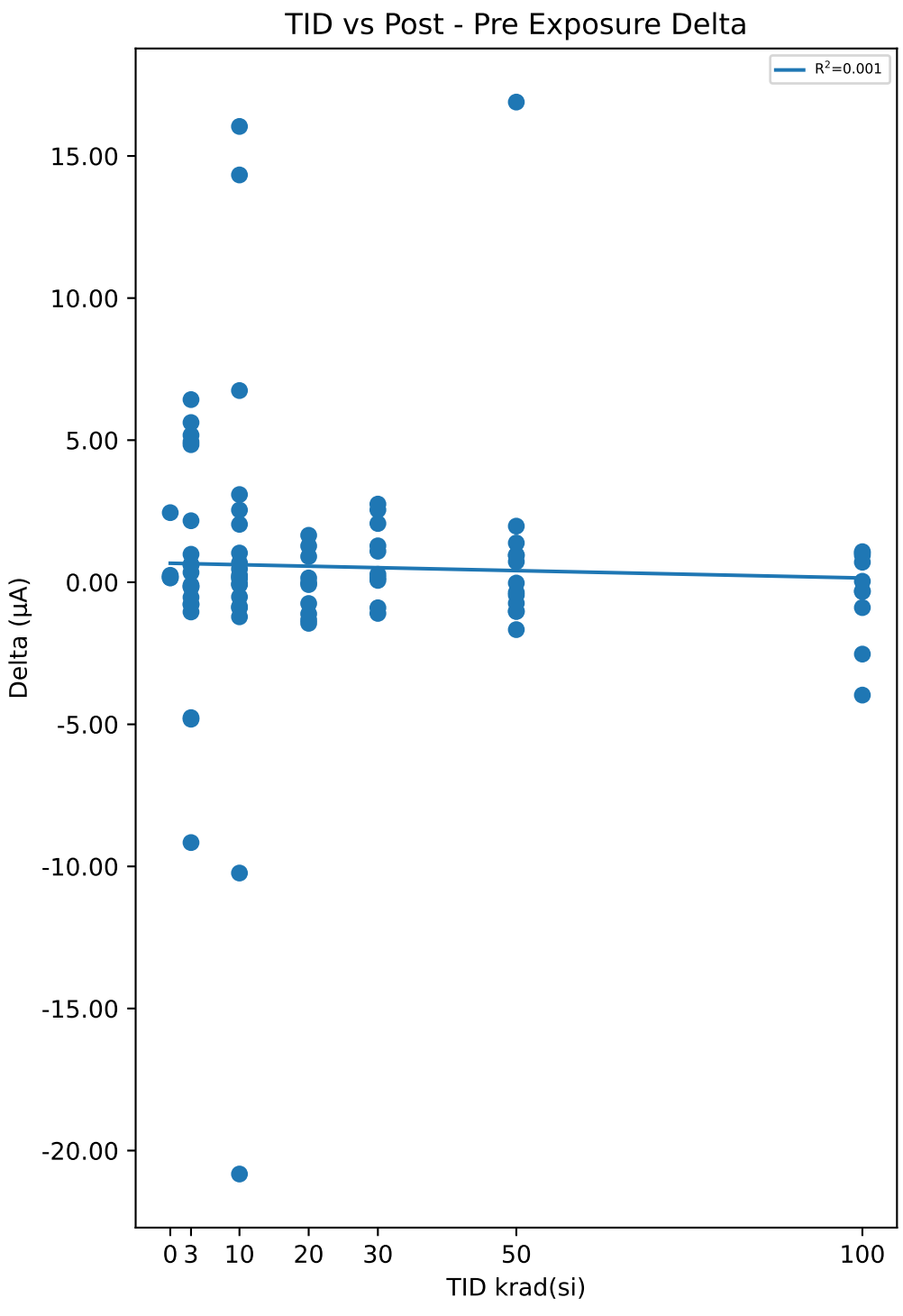
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	114.28	119.99	5.7092
51	3	Biased	127.09	131.74	4.6507
52	3	Biased	125.13	131.78	6.6482
53	3	Biased	123.08	126.36	3.2804
54	3	Biased	120.34	119.73	-0.6178
55	3	Unbiased	124.24	120.5	-3.7391
56	3	Unbiased	129.89	133.55	3.6605
57	3	Unbiased	125.89	135.96	10.071
58	3	Unbiased	132.75	127.27	-5.4799
59	3	Unbiased	135.48	126.54	-8.9333
60	10	Biased	140.52	119.47	-21.057
61	10	Biased	129.73	143.37	13.637
62	10	Biased	123	122.03	-0.9688
63	10	Biased	123.69	138.47	14.772
64	10	Biased	129.78	133.99	4.2073
65	10	Unbiased	121.33	122.63	1.2904
66	10	Unbiased	118.06	122.86	4.7965
67	10	Unbiased	135.4	139.85	4.4534
68	10	Unbiased	136.1	136	-0.0972
69	10	Unbiased	134.92	126.63	-8.2982
100	20	Biased	126.53	124.05	-2.4831
200	20	Biased	124.37	123.42	-0.9498
300	20	Biased	118.74	118.99	0.25
400	20	Biased	136.64	136.5	-0.1403
500	20	Biased	128.74	129.81	1.0753
600	20	Unbiased	128.65	127.82	-0.8323
700	20	Unbiased	128.84	130.23	1.3961
800	20	Unbiased	126.29	125.65	-0.6352
900	20	Unbiased	131.15	132.15	0.9961
1000	20	Unbiased	131.5	131.25	-0.2496
1100	30	Biased	128.74	130.19	1.4443
1200	30	Biased	125.6	124.4	-1.2025
1300	30	Biased	131.31	131.57	0.2647
1400	30	Biased	127.89	128.97	1.0838
1500	30	Biased	119.38	121.93	2.5472
1600	30	Unbiased	118.46	118.65	0.1872
1700	30	Unbiased	123.11	123.7	0.5922
1800	30	Unbiased	122.73	124.01	1.2747
1900	30	Unbiased	129.63	131.06	1.4257
2000	30	Unbiased	125.09	125.26	0.176
2100	50	Biased-84Hr-Anneal	127.3	128.87	1.5712
2200	50	Biased-84Hr-Anneal	117.07	132.82	15.755
2300	50	Biased-84Hr-Anneal	127.05	126.05	-0.9934
2400	50	Biased-84Hr-Anneal	137.28	140.5	3.2268
2500	50	Biased-84Hr-Anneal	125.16	125.07	-0.085
2600	50	Unbiased	128.95	129.78	0.832
2700	50	Unbiased	132.99	134.59	1.5939
2800	50	Unbiased	126.07	126.19	0.1247
2900	50	Unbiased	124.76	121.91	-2.8519
3000	50	Unbiased	119.14	118.27	-0.8676
4000	100	Biased-168Hr-Anneal	133.91	132.66	-1.2418
4100	100	Biased-168Hr-Anneal	128.15	127.97	-0.1765
4200	100	Biased-168Hr-Anneal	130.43	129.92	-0.5085
4300	100	Biased-168Hr-Anneal	123.18	124.81	1.6229
4400	100	Biased-168Hr-Anneal	135.09	136.6	1.5089
4500	100	Unbiased-168Hr-Anneal	125.96	124.42	-1.5484
4600	100	Unbiased-168Hr-Anneal	130.38	130.02	-0.3604
4700	100	Unbiased-168Hr-Anneal	133.33	133.34	0.0018
4800	100	Unbiased-168Hr-Anneal	138.22	136.92	-1.2978
4900	100	Unbiased-168Hr-Anneal	131.23	130.3	-0.932
9300	0	CORRELATION	123.17	126.45	3.2716
9400	0	CORRELATION	124.17	124.6	0.4335
9500	0	CORRELATION	126.44	126.46	0.0248
9600	0	CORRELATION	131.31	131.56	0.2461
9700	0	CORRELATION	126.2	126.35	0.1492

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	123.17	126.26	131.31	3.1394	124.6	127.08	131.56	2.6212	0.0248	0.82504	3.2716	1.3758
3	114.28	125.82	135.48	6.0825	119.73	127.34	135.96	5.8896	-8.9333	1.525	10.071	6.0088
10	118.06	129.25	140.52	7.4704	119.47	130.53	143.37	8.7425	-21.057	1.2735	14.772	10.346
20	118.74	128.14	136.64	4.7407	118.99	127.99	136.5	5.0725	-2.4831	-0.15728	1.3961	1.1623
30	118.46	125.19	131.31	4.3032	118.65	125.97	131.57	4.2949	-1.2025	0.77933	2.5472	1.0146
50	117.07	126.58	137.28	5.9005	118.27	128.41	140.5	6.434	-2.8519	1.8306	15.755	5.1717
100	123.18	130.99	138.22	4.4484	124.42	130.7	136.92	4.3106	-1.5484	-0.29318	1.6229	1.1037

Device Test: 18.22 ERROR_AMP|STATIC/COMP/14////@EA_SINK





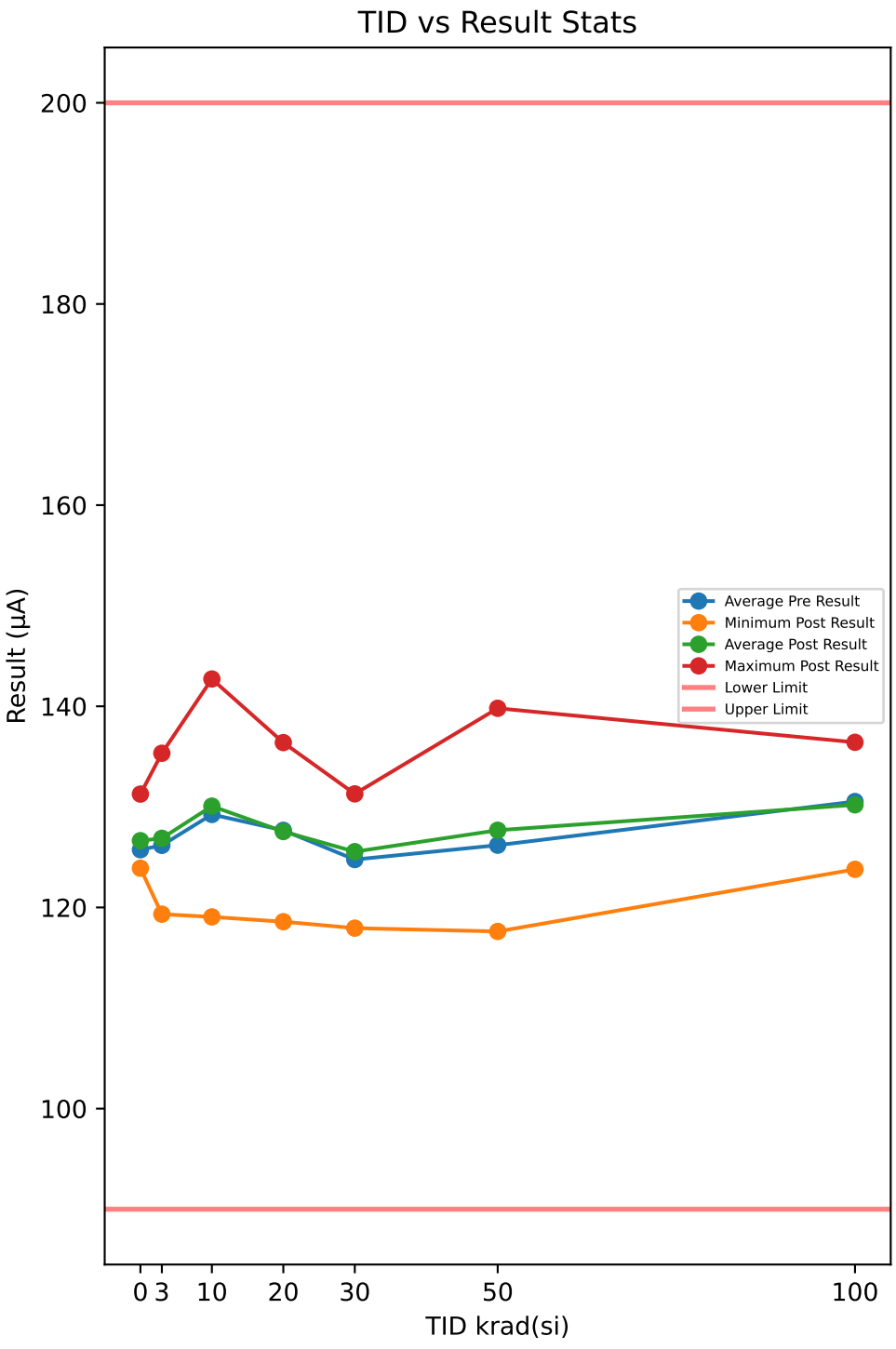
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	115.06	120.24	5.174
51	3	Biased	127.49	133.11	5.6197
52	3	Biased	125.88	132.3	6.4271
53	3	Biased	122.71	127.56	4.8411
54	3	Biased	120.37	119.33	-1.0459
55	3	Unbiased	126.13	121.31	-4.8199
56	3	Unbiased	132.3	134.47	2.164
57	3	Unbiased	128.9	133.84	4.9395
58	3	Unbiased	132.54	127.78	-4.7645
59	3	Unbiased	137.6	128.44	-9.1616
60	10	Biased	140.19	119.37	-20.825
61	10	Biased	128.75	144.79	16.04
62	10	Biased	122.48	121.59	-0.8973
63	10	Biased	123.38	137.71	14.332
64	10	Biased	132.04	135.12	3.0855
65	10	Unbiased	123.63	122.78	-0.8575
66	10	Unbiased	118.98	125.73	6.7456
67	10	Unbiased	135.47	138.01	2.5414
68	10	Unbiased	138.42	138.66	0.2467
69	10	Unbiased	135.9	125.67	-10.233
100	20	Biased	127.01	125.69	-1.3195
200	20	Biased	124.58	123.46	-1.1129
300	20	Biased	120.06	120.97	0.9063
400	20	Biased	137.85	137.84	-0.0156
500	20	Biased	130.8	132.45	1.6519
600	20	Unbiased	130.67	129.22	-1.4461
700	20	Unbiased	128.49	128.64	0.1507
800	20	Unbiased	127.53	126.78	-0.7482
900	20	Unbiased	130.37	131.64	1.2769
1000	20	Unbiased	131.92	131.83	-0.0824
1100	30	Biased	129.35	131.89	2.5474
1200	30	Biased	124.65	123.55	-1.0965
1300	30	Biased	131.38	132.66	1.2815
1400	30	Biased	129.15	129.31	0.1546
1500	30	Biased	118.28	121.03	2.7503
1600	30	Unbiased	119	119.28	0.2807
1700	30	Unbiased	123.7	124.79	1.0909
1800	30	Unbiased	123.23	125.3	2.0668
1900	30	Unbiased	130.53	129.64	-0.8983
2000	30	Unbiased	124.63	124.69	0.0641
2100	50	Biased-84Hr-Anneal	129.21	130.16	0.9493
2200	50	Biased-84Hr-Anneal	117.32	134.22	16.897
2300	50	Biased-84Hr-Anneal	128.65	129.37	0.7233
2400	50	Biased-84Hr-Anneal	140.21	142.18	1.9742
2500	50	Biased-84Hr-Anneal	124.96	126.35	1.3814
2600	50	Unbiased	131.53	130.79	-0.7392
2700	50	Unbiased	133.3	132.85	-0.4532
2800	50	Unbiased	127.14	126.78	-0.3586
2900	50	Unbiased	125.77	124.1	-1.6675
3000	50	Unbiased	120.19	120.16	-0.0286
4000	100	Biased-168Hr-Anneal	134.77	135.84	1.0752
4100	100	Biased-168Hr-Anneal	128.42	127.53	-0.8926
4200	100	Biased-168Hr-Anneal	131.91	132.86	0.9488
4300	100	Biased-168Hr-Anneal	125.69	126.72	1.0305
4400	100	Biased-168Hr-Anneal	134.25	134.96	0.7045
4500	100	Unbiased-168Hr-Anneal	123.51	120.98	-2.5289
4600	100	Unbiased-168Hr-Anneal	130.45	130.49	0.0335
4700	100	Unbiased-168Hr-Anneal	133.3	132.97	-0.3294
4800	100	Unbiased-168Hr-Anneal	137.67	137.36	-0.3078
4900	100	Unbiased-168Hr-Anneal	132.05	128.08	-3.9713
9300	0	CORRELATION	124.49	126.94	2.4486
9400	0	CORRELATION	124.63	124.79	0.1603
9500	0	CORRELATION	125.76	125.91	0.1516
9600	0	CORRELATION	131.81	132.05	0.2441
9700	0	CORRELATION	125.86	126.06	0.2049

Test Statistics (µA)

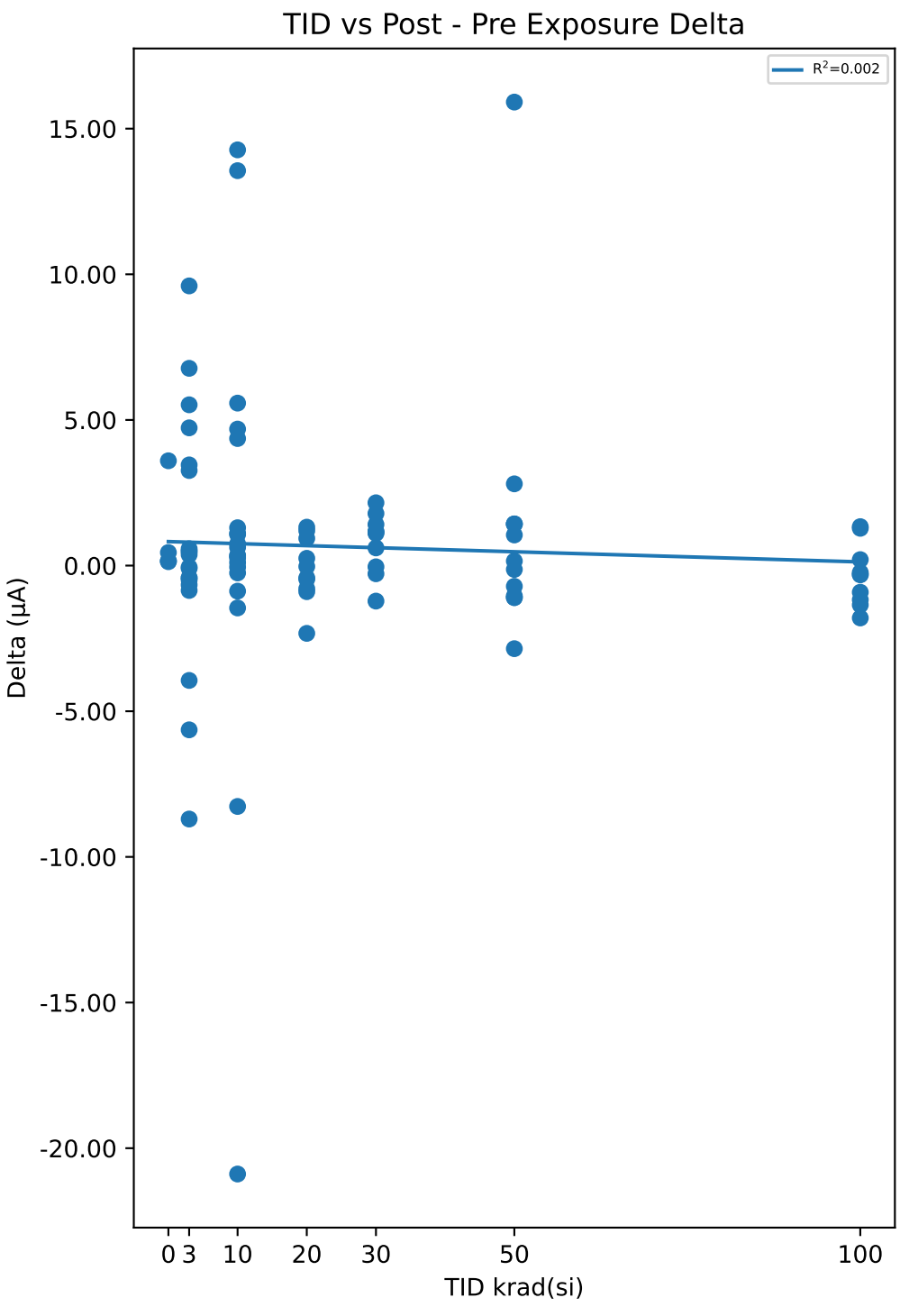
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	124.49	126.51	131.81	3.0274	124.79	127.15	132.05	2.8442	0.1516	0.6419	2.4486	1.0107
3	115.06	126.9	137.6	6.512	119.33	127.84	134.47	5.7827	-9.1616	0.93735	6.4271	5.5212
10	118.98	129.92	140.19	7.5084	119.37	130.94	144.79	8.8676	-20.825	1.0178	16.04	10.821
20	120.06	128.93	137.85	4.7205	120.97	128.85	137.84	4.8995	-1.4461	-0.07389	1.6519	1.0948
30	118.28	125.39	131.38	4.6205	119.28	126.21	132.66	4.5005	-1.0965	0.82415	2.7503	1.3532
50	117.32	127.83	140.21	6.5067	120.16	129.69	142.18	6.0528	-1.6675	1.8678	16.897	5.3904
100	123.51	131.2	137.67	4.312	120.98	130.78	137.36	5.0113	-3.9713	-0.42375	1.0752	1.6662

Device Test: 18.3 ERROR_AMP|STATIC/COMP/4.5////@EA_SOURCE



Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

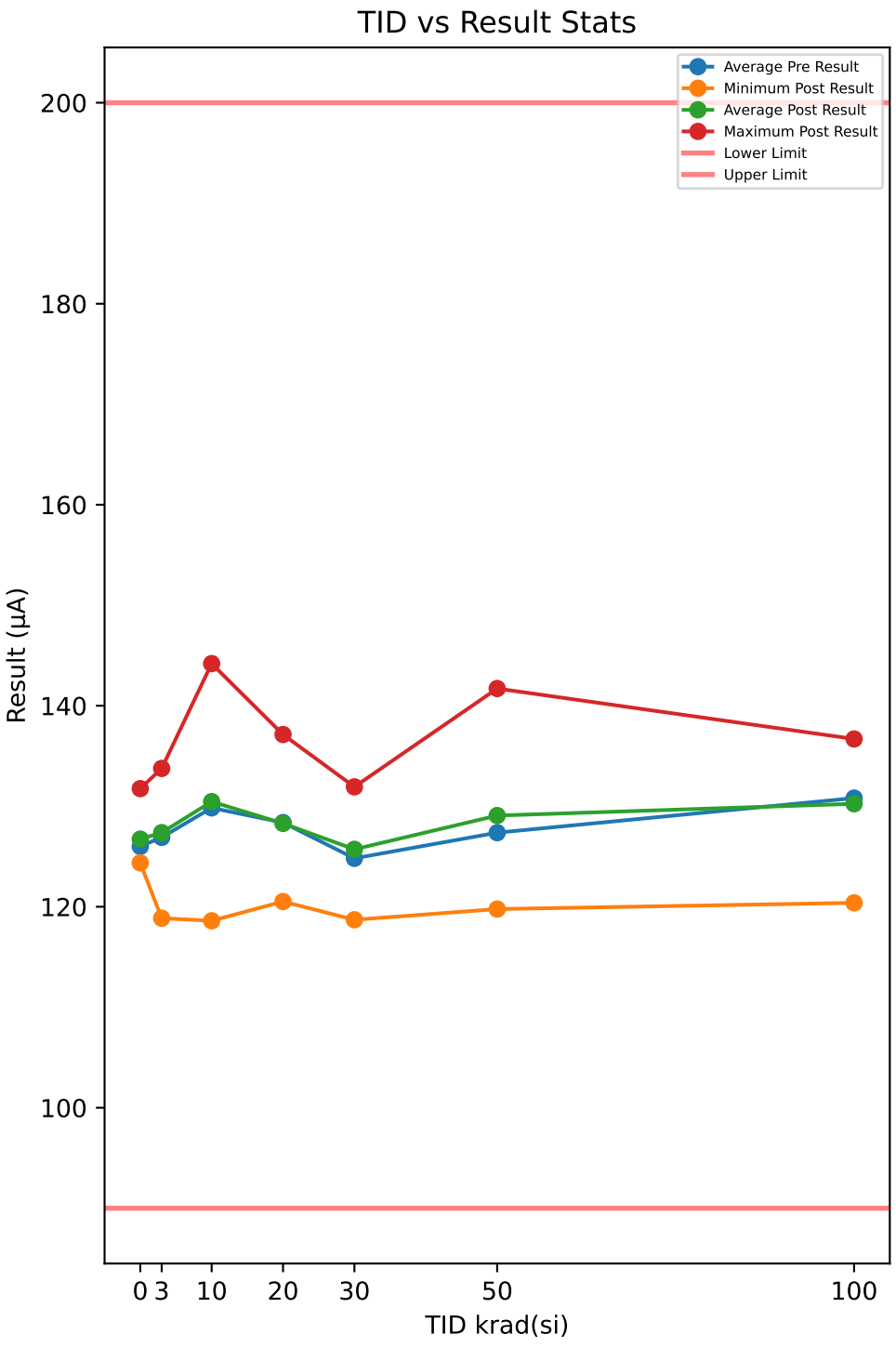
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	114.05	119.57	5.5202
51	3	Biased	126.52	131.25	4.7287
52	3	Biased	124.59	131.36	6.7723
53	3	Biased	122.83	126.09	3.2641
54	3	Biased	120.19	119.33	-0.8535
55	3	Unbiased	123.88	119.94	-3.9421
56	3	Unbiased	129.72	133.17	3.4569
57	3	Unbiased	125.73	135.33	9.6018
58	3	Unbiased	132.28	126.64	-5.6383
59	3	Unbiased	134.76	126.06	-8.7004
60	10	Biased	139.95	119.06	-20.887
61	10	Biased	129.16	142.72	13.558
62	10	Biased	122.45	121.57	-0.8767
63	10	Biased	123.55	137.83	14.272
64	10	Biased	129.23	133.6	4.3623
65	10	Unbiased	120.96	122.03	1.0687
66	10	Unbiased	117.3	122.87	5.5776
67	10	Unbiased	134.79	139.48	4.6867
68	10	Unbiased	135.36	135.47	0.1046
69	10	Unbiased	134.38	126.11	-8.2681
100	20	Biased	126.01	123.69	-2.3262
200	20	Biased	123.64	123.22	-0.4182
300	20	Biased	118.33	118.58	0.25
400	20	Biased	136.42	136.39	-0.0312
500	20	Biased	128.36	129.3	0.9351
600	20	Unbiased	128.17	127.27	-0.895
700	20	Unbiased	128.41	129.73	1.319
800	20	Unbiased	125.9	125.11	-0.7908
900	20	Unbiased	130.37	131.57	1.1971
1000	20	Unbiased	131.06	130.59	-0.4672
1100	30	Biased	128.16	129.95	1.7887
1200	30	Biased	125.23	124.01	-1.2189
1300	30	Biased	130.69	131.29	0.6074
1400	30	Biased	127.36	128.77	1.4123
1500	30	Biased	119.1	121.26	2.1564
1600	30	Unbiased	118.22	117.94	-0.2807
1700	30	Unbiased	122.39	123.5	1.1065
1800	30	Unbiased	122.3	123.48	1.1808
1900	30	Unbiased	129.38	130.53	1.1454
2000	30	Unbiased	124.81	124.76	-0.042
2100	50	Biased-84Hr-Anneal	126.87	128.3	1.4303
2200	50	Biased-84Hr-Anneal	116.5	132.42	15.912
2300	50	Biased-84Hr-Anneal	126.62	125.91	-0.7121
2400	50	Biased-84Hr-Anneal	137	139.8	2.8067
2500	50	Biased-84Hr-Anneal	124.83	124.69	-0.132
2600	50	Unbiased	128.42	129.47	1.0514
2700	50	Unbiased	132.73	134.15	1.4221
2800	50	Unbiased	125.85	126.01	0.1559
2900	50	Unbiased	124.44	121.58	-2.852
3000	50	Unbiased	118.66	117.62	-1.0398
4000	100	Biased-168Hr-Anneal	133.64	132.29	-1.3506
4100	100	Biased-168Hr-Anneal	127.88	127.57	-0.3161
4200	100	Biased-168Hr-Anneal	129.71	129.41	-0.3044
4300	100	Biased-168Hr-Anneal	122.82	124.1	1.2805
4400	100	Biased-168Hr-Anneal	134.81	136.15	1.3369
4500	100	Unbiased-168Hr-Anneal	125.59	123.79	-1.7974
4600	100	Unbiased-168Hr-Anneal	129.95	129.71	-0.2355
4700	100	Unbiased-168Hr-Anneal	132.79	132.99	0.2045
4800	100	Unbiased-168Hr-Anneal	137.59	136.42	-1.1718
4900	100	Unbiased-168Hr-Anneal	130.52	129.61	-0.9147
9300	0	CORRELATION	122.6	126.2	3.5981
9400	0	CORRELATION	123.75	123.9	0.1534
9500	0	CORRELATION	125.84	126.01	0.1664
9600	0	CORRELATION	130.82	131.27	0.4491
9700	0	CORRELATION	125.68	125.82	0.1345

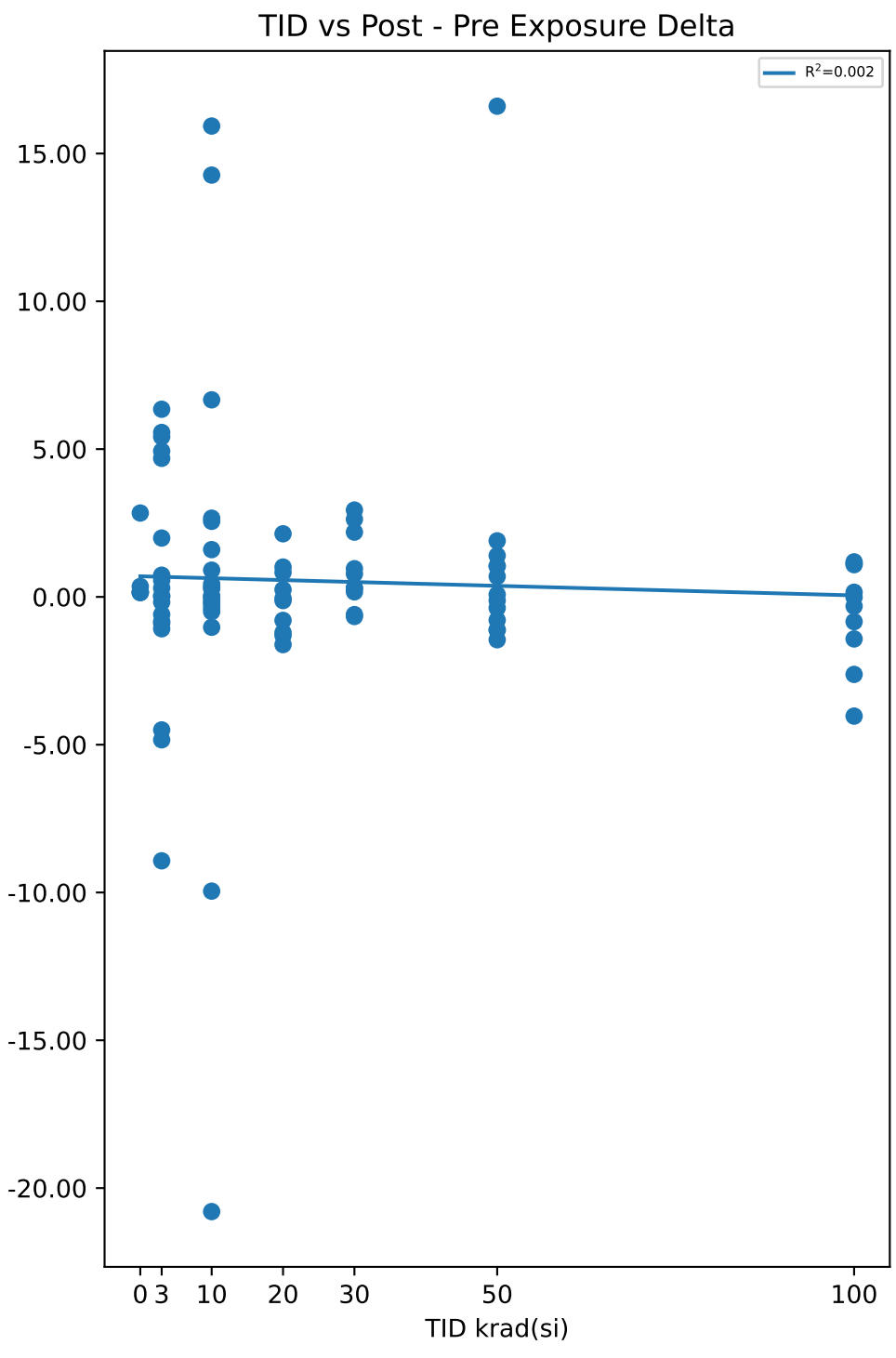


Test Statistics (µA)

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	122.6	125.74	130.82	3.1511	123.9	126.64	131.27	2.7498	0.1345	0.9003	3.5981	1.5137
3	114.05	125.45	134.76	5.9671	119.33	126.87	135.33	5.8703	-8.7004	1.421	9.6018	5.9354
10	117.3	128.71	139.95	7.425	119.06	130.07	142.72	8.664	-20.887	1.3598	14.272	10.261
20	118.33	127.67	136.42	4.7839	118.58	127.55	136.39	5.0717	-2.3262	-0.12274	1.319	1.1151
30	118.22	124.76	130.69	4.2353	117.94	125.55	131.29	4.4132	-1.2189	0.78559	2.1564	1.0295
50	116.5	126.19	137	5.9698	117.62	128	139.8	6.3866	-2.852	1.8042	15.912	5.2009
100	122.82	130.53	137.59	4.4072	123.79	130.2	136.42	4.3796	-1.7974	-0.32686	1.3369	1.0495

Device Test: 18.4 ERROR_AMP|STATIC/COMP/4.5////@EA_SINK





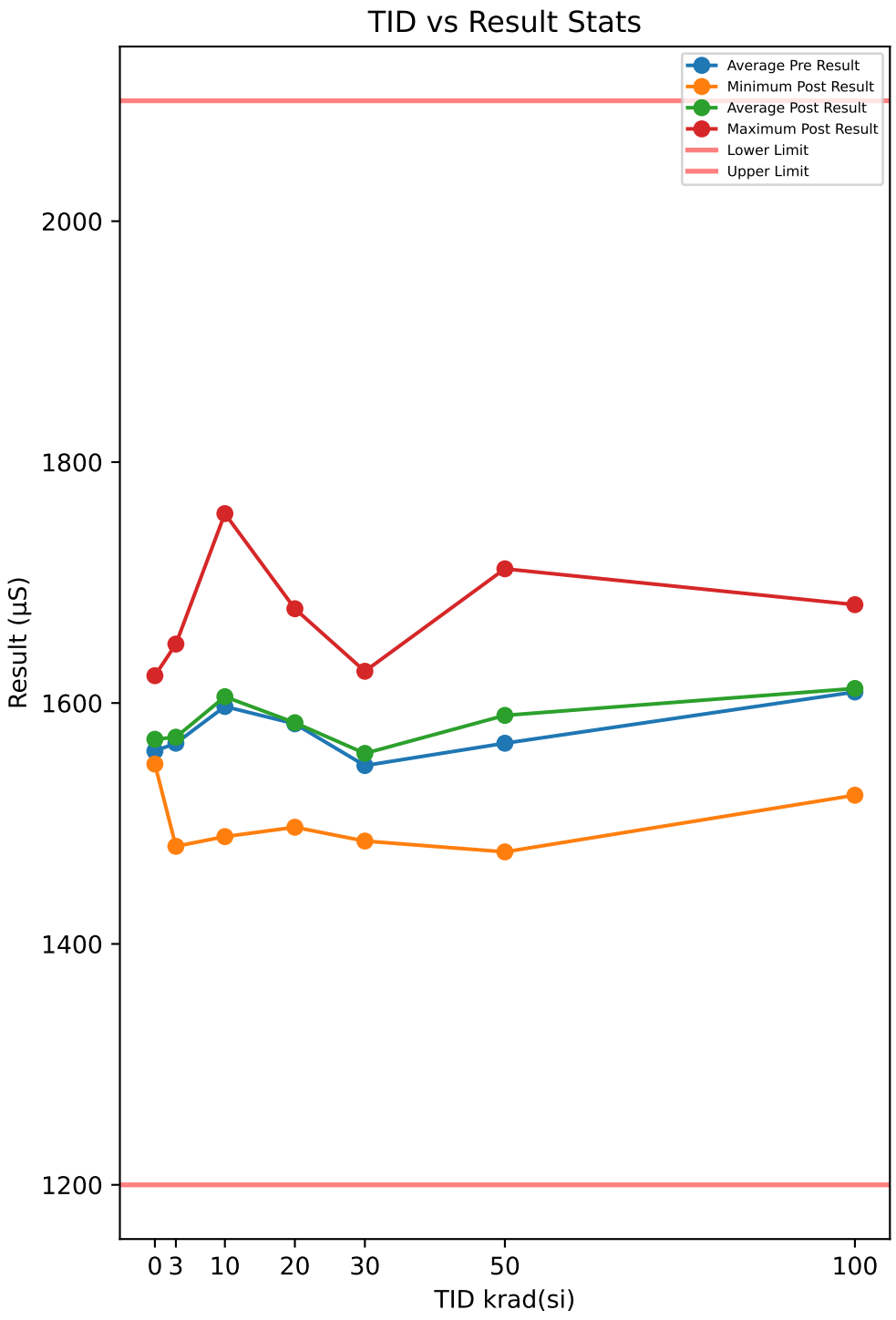
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	114.55	120.11	5.5641
51	3	Biased	127.13	132.54	5.4165
52	3	Biased	125.61	131.96	6.3485
53	3	Biased	122.03	126.96	4.9332
54	3	Biased	119.94	118.86	-1.0788
55	3	Unbiased	125.71	120.87	-4.8353
56	3	Unbiased	131.77	133.76	1.9909
57	3	Unbiased	128.47	133.15	4.6881
58	3	Unbiased	131.96	127.46	-4.5001
59	3	Unbiased	136.97	128.04	-8.9284
60	10	Biased	139.4	118.6	-20.796
61	10	Biased	128.26	144.19	15.929
62	10	Biased	121.69	121.3	-0.3828
63	10	Biased	122.92	137.19	14.27
64	10	Biased	131.73	134.39	2.6628
65	10	Unbiased	123.06	122.56	-0.5003
66	10	Unbiased	118.48	125.15	6.6672
67	10	Unbiased	135.07	137.62	2.5558
68	10	Unbiased	138.24	138.27	0.0277
69	10	Unbiased	135.28	125.32	-9.9536
100	20	Biased	126.53	124.91	-1.6145
200	20	Biased	124.09	122.89	-1.2053
300	20	Biased	119.69	120.52	0.8282
400	20	Biased	137.26	137.14	-0.1248
500	20	Biased	129.79	131.92	2.1351
600	20	Unbiased	130.04	128.74	-1.3057
700	20	Unbiased	127.92	128.17	0.2455
800	20	Unbiased	126.89	126.1	-0.7945
900	20	Unbiased	129.96	130.97	1.0101
1000	20	Unbiased	131.57	131.52	-0.0507
1100	30	Biased	128.81	131.44	2.6268
1200	30	Biased	123.69	123.1	-0.5984
1300	30	Biased	130.97	131.93	0.9538
1400	30	Biased	128.79	128.96	0.171
1500	30	Biased	117.66	120.6	2.9378
1600	30	Unbiased	118.41	118.7	0.2963
1700	30	Unbiased	123.31	124.09	0.7792
1800	30	Unbiased	122.73	124.92	2.1915
1900	30	Unbiased	129.88	129.21	-0.6631
2000	30	Unbiased	123.91	124.21	0.2983
2100	50	Biased-84Hr-Anneal	128.82	129.86	1.0429
2200	50	Biased-84Hr-Anneal	117.07	133.67	16.601
2300	50	Biased-84Hr-Anneal	128.33	129.03	0.6925
2400	50	Biased-84Hr-Anneal	139.81	141.71	1.8972
2500	50	Biased-84Hr-Anneal	124.57	125.97	1.3968
2600	50	Unbiased	131.26	130.48	-0.7853
2700	50	Unbiased	132.63	132.25	-0.375
2800	50	Unbiased	126.27	126.14	-0.1247
2900	50	Unbiased	125.24	123.79	-1.4493
3000	50	Unbiased	119.69	119.77	0.0806
4000	100	Biased-168Hr-Anneal	134.27	135.45	1.185
4100	100	Biased-168Hr-Anneal	128.36	126.94	-1.4223
4200	100	Biased-168Hr-Anneal	131.33	132.42	1.0903
4300	100	Biased-168Hr-Anneal	125.03	126.16	1.1253
4400	100	Biased-168Hr-Anneal	134.19	134.35	0.1575
4500	100	Unbiased-168Hr-Anneal	123.01	120.39	-2.6217
4600	100	Unbiased-168Hr-Anneal	129.78	129.77	-0.0136
4700	100	Unbiased-168Hr-Anneal	132.86	132.55	-0.314
4800	100	Unbiased-168Hr-Anneal	137.53	136.69	-0.8374
4900	100	Unbiased-168Hr-Anneal	131.73	127.7	-4.0329
9300	0	CORRELATION	123.88	126.72	2.8376
9400	0	CORRELATION	124.22	124.36	0.1454
9500	0	CORRELATION	125.15	125.3	0.1529
9600	0	CORRELATION	131.4	131.75	0.3531
9700	0	CORRELATION	125.34	125.5	0.159

Test Statistics (µA)

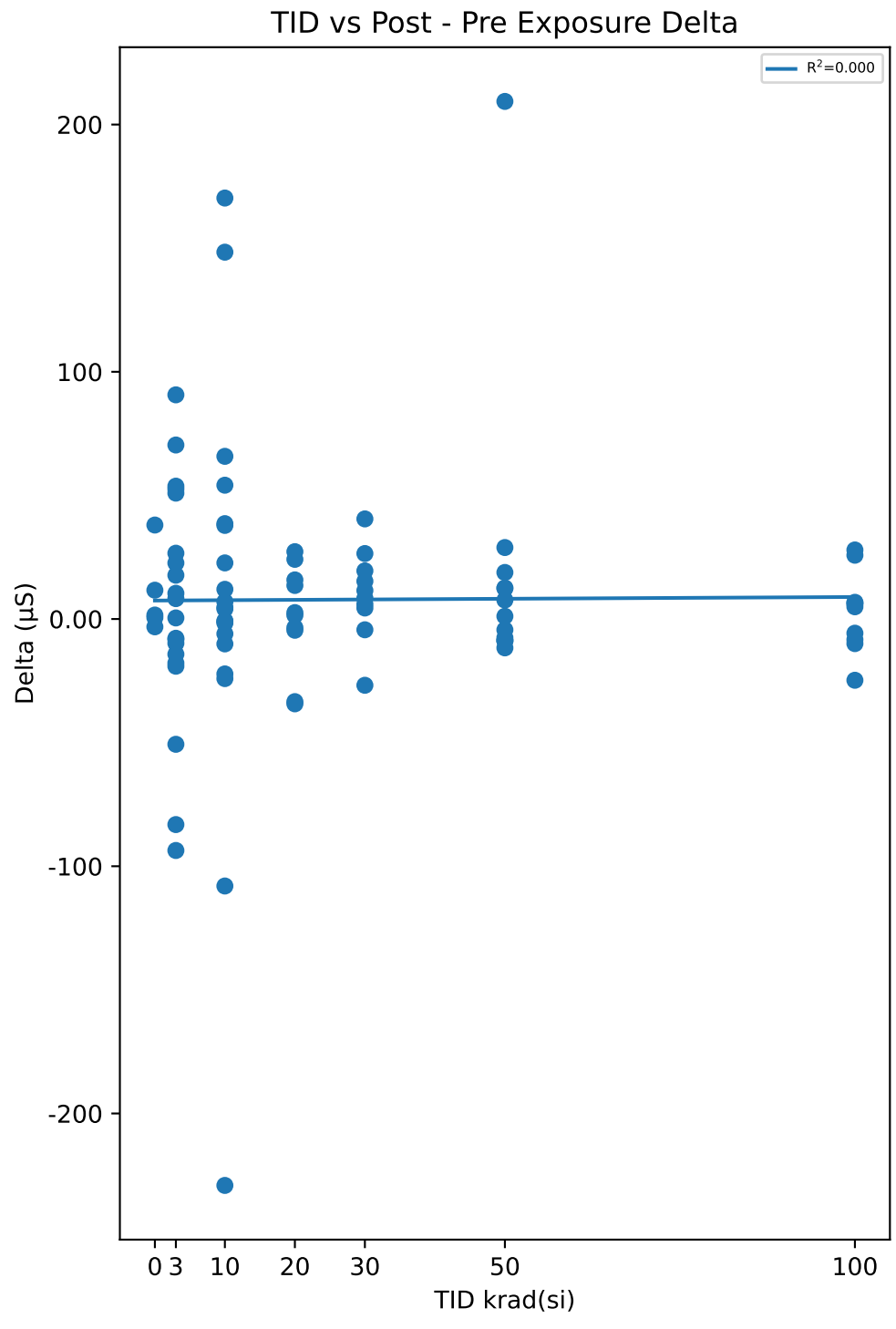
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	123.88	126	131.4	3.0807	124.36	126.73	131.75	2.9312	0.1454	0.7296	2.8376	1.1816
3	114.55	126.41	136.97	6.4879	118.86	127.37	133.76	5.6782	-8.9284	0.95987	6.3485	5.4383
10	118.48	129.41	139.4	7.5449	118.6	130.46	144.19	8.8389	-20.796	1.048	15.929	10.731
20	119.69	128.38	137.26	4.668	120.52	128.29	137.14	4.8895	-1.6145	-0.08766	2.1351	1.1861
30	117.66	124.82	130.97	4.6709	118.7	125.72	131.93	4.4965	-0.6631	0.89932	2.9378	1.2809
50	117.07	127.37	139.81	6.4919	119.77	129.27	141.71	6.0181	-1.4493	1.8977	16.601	5.266
100	123.01	130.81	137.53	4.4118	120.39	130.24	136.69	5.0231	-4.0329	-0.56838	1.185	1.7196

Device Test: 18.8 EA|STATIC/COMP/5////@EA_GM_25C



Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

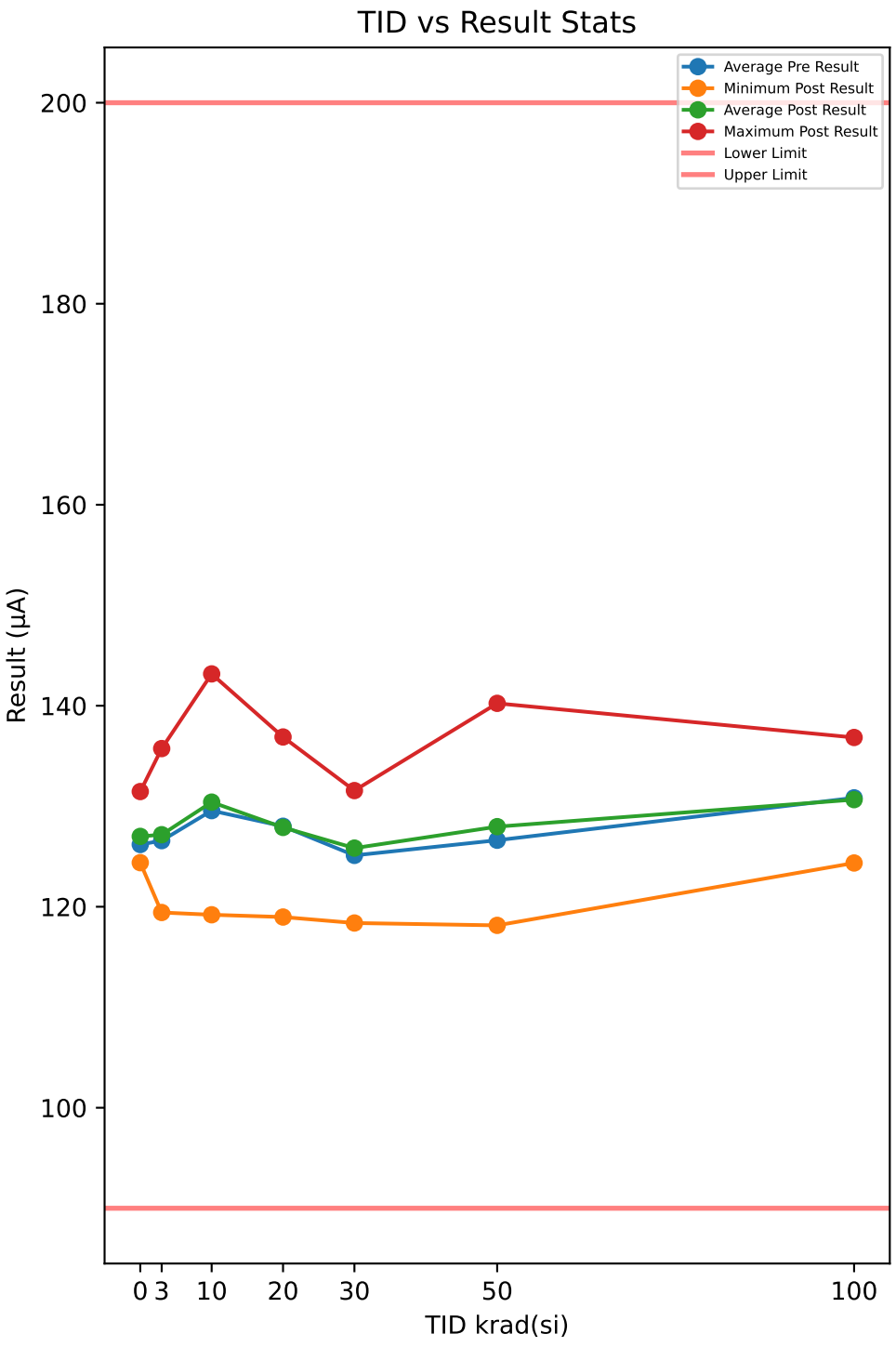
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1428.5	1481	52.541
51	3	Biased	1573.1	1624	50.918
52	3	Biased	1548.9	1619.3	70.384
53	3	Biased	1521	1574.7	53.737
54	3	Biased	1500	1482.2	-17.81
55	3	Unbiased	1545.6	1494.9	-50.675
56	3	Unbiased	1622.3	1648.9	26.612
57	3	Unbiased	1556	1646.6	90.674
58	3	Unbiased	1647.7	1564.5	-83.147
59	3	Unbiased	1673.6	1580	-93.625
60	10	Biased	1718.2	1489.1	-229.1
61	10	Biased	1587	1757.3	170.28
62	10	Biased	1512.5	1511.8	-0.6882
63	10	Biased	1532.5	1680.9	148.38
64	10	Biased	1605.7	1659.9	54.124
65	10	Unbiased	1525.5	1515.5	-10.066
66	10	Unbiased	1468	1533.8	65.801
67	10	Unbiased	1655.1	1692.9	37.861
68	10	Unbiased	1681.2	1657	-24.101
69	10	Unbiased	1662.4	1554.4	-107.99
100	20	Biased	1579.8	1546.4	-33.417
200	20	Biased	1523.4	1525	1.5162
300	20	Biased	1483.3	1496.9	13.572
400	20	Biased	1682.8	1678.3	-4.5451
500	20	Biased	1595.3	1622.6	27.24
600	20	Unbiased	1601.1	1566.8	-34.307
700	20	Unbiased	1576.4	1592.3	15.822
800	20	Unbiased	1570.2	1572.8	2.5907
900	20	Unbiased	1593.9	1618	24.141
1000	20	Unbiased	1621.1	1617.6	-3.4778
1100	30	Biased	1589.2	1604.5	15.297
1200	30	Biased	1547.3	1520.5	-26.804
1300	30	Biased	1617.9	1626.4	8.43
1400	30	Biased	1575.8	1602.3	26.48
1500	30	Biased	1469.1	1509.6	40.493
1600	30	Unbiased	1473.9	1485.4	11.529
1700	30	Unbiased	1531.3	1537.3	6.0054
1800	30	Unbiased	1521.5	1540.9	19.487
1900	30	Unbiased	1605.9	1610.3	4.4546
2000	30	Unbiased	1549.1	1544.8	-4.3574
2100	50	Biased-84Hr-Anneal	1586.4	1598.9	12.496
2200	50	Biased-84Hr-Anneal	1446.2	1655.6	209.36
2300	50	Biased-84Hr-Anneal	1579.8	1575.4	-4.3763
2400	50	Biased-84Hr-Anneal	1692.6	1711.4	18.828
2500	50	Biased-84Hr-Anneal	1532.9	1561.8	28.91
2600	50	Unbiased	1589	1596.7	7.682
2700	50	Unbiased	1633	1634.2	1.1135
2800	50	Unbiased	1574.6	1567	-7.5596
2900	50	Unbiased	1546.6	1534.9	-11.666
3000	50	Unbiased	1485	1476.4	-8.6187
4000	100	Biased-168Hr-Anneal	1643.4	1637.7	-5.7349
4100	100	Biased-168Hr-Anneal	1580.3	1585.3	4.95
4200	100	Biased-168Hr-Anneal	1606.3	1612.4	6.0594
4300	100	Biased-168Hr-Anneal	1542	1570	27.93
4400	100	Biased-168Hr-Anneal	1644.3	1670.1	25.804
4500	100	Unbiased-168Hr-Anneal	1533.4	1523.5	-9.9489
4600	100	Unbiased-168Hr-Anneal	1604	1610.5	6.5282
4700	100	Unbiased-168Hr-Anneal	1633.3	1624.9	-8.3444
4800	100	Unbiased-168Hr-Anneal	1674.9	1681.6	6.7488
4900	100	Unbiased-168Hr-Anneal	1629.7	1604.9	-24.772
9300	0	CORRELATION	1523.6	1561.6	38.012
9400	0	CORRELATION	1548.7	1549.3	0.5792
9500	0	CORRELATION	1558.5	1555.3	-3.1569
9600	0	CORRELATION	1621.1	1622.7	1.6071
9700	0	CORRELATION	1548.9	1560.6	11.656

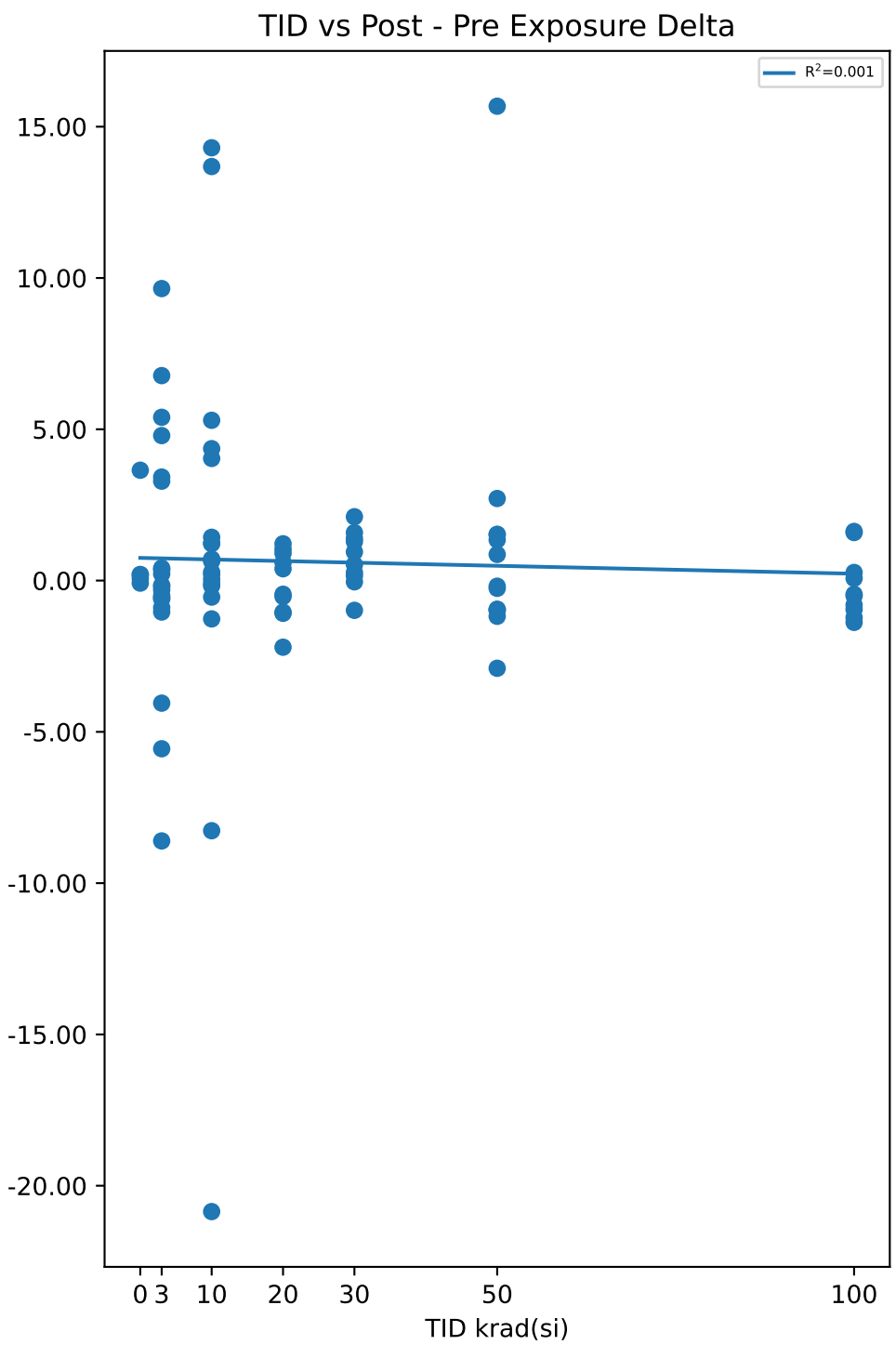


Test Statistics (µS)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1523.6	1560.2	1621.1	36.427	1549.3	1569.9	1622.7	29.901	-3.1569	9.7396	38.012	16.729
3	1428.5	1561.7	1673.6	72.563	1481	1571.6	1648.9	65.69	-93.625	9.9608	90.674	66.413
10	1468	1594.8	1718.2	83.398	1489.1	1605.3	1757.3	94.375	-229.1	10.449	170.28	117.12
20	1483.3	1582.7	1682.8	53.455	1496.9	1583.7	1678.3	53.383	-34.307	0.91339	27.24	21.308
30	1469.1	1548.1	1617.9	51.009	1485.4	1558.2	1626.4	48.819	-26.804	10.101	40.493	18.048
50	1446.2	1566.6	1692.6	69.997	1476.4	1591.2	1711.4	65.468	-11.666	24.617	209.36	66.219
100	1533.4	1609.2	1674.9	45.751	1523.5	1612.1	1681.6	46.454	-24.772	2.922	27.93	16.073

Device Test: 18.9 ERROR_AMP|STATIC/COMP/5////@EA_SOURCE





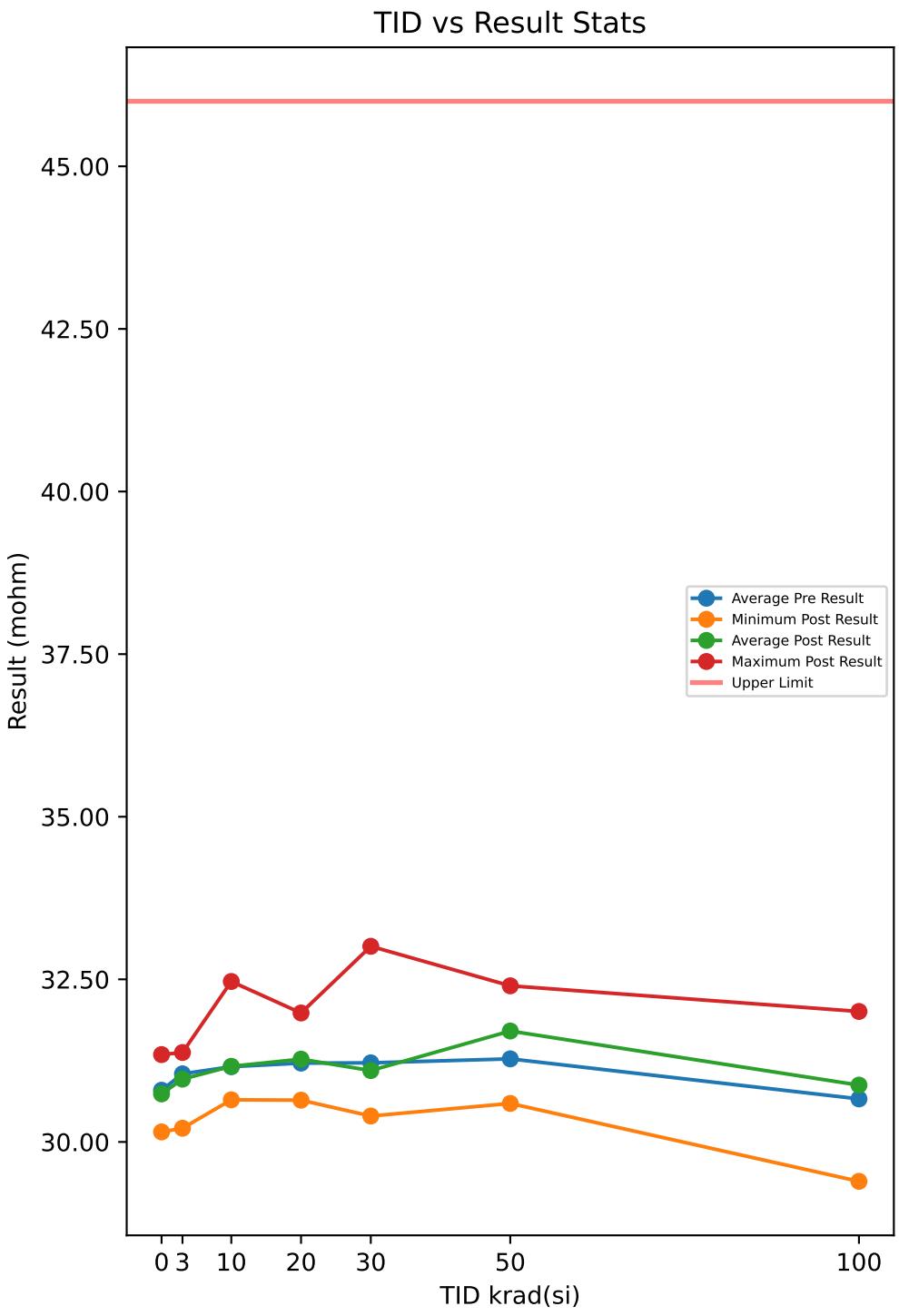
Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))

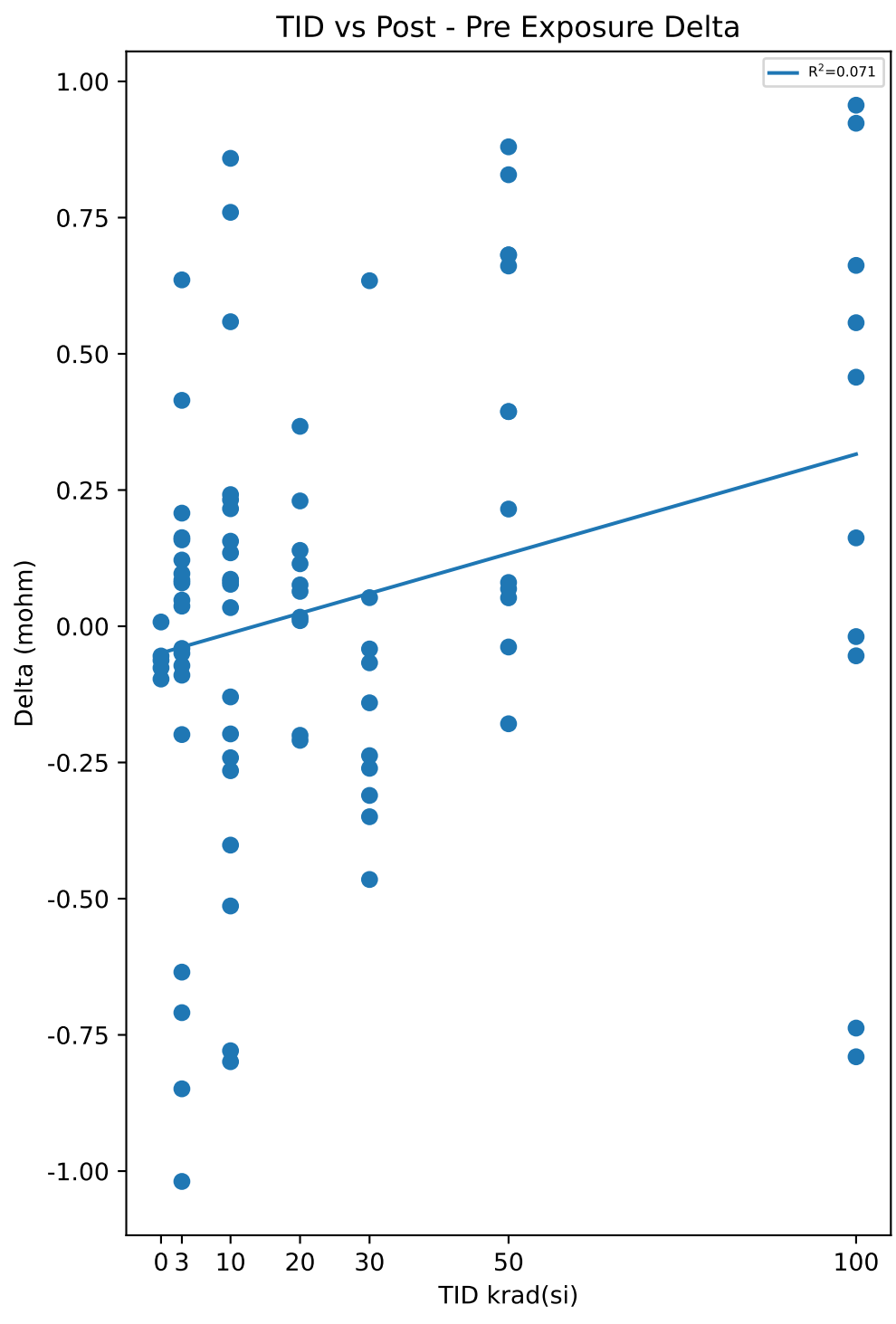
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	114.3	119.69	5.3958
51	3	Biased	126.91	131.71	4.7913
52	3	Biased	125.05	131.83	6.7731
53	3	Biased	123.05	126.47	3.4208
54	3	Biased	120.47	119.43	-1.0405
55	3	Unbiased	124.15	120.1	-4.0515
56	3	Unbiased	129.78	133.06	3.2851
57	3	Unbiased	126.09	135.74	9.6498
58	3	Unbiased	132.67	127.11	-5.5586
59	3	Unbiased	135.15	126.54	-8.6052
60	10	Biased	140.06	119.2	-20.855
61	10	Biased	129.49	143.17	13.683
62	10	Biased	122.65	122.11	-0.5468
63	10	Biased	123.93	138.23	14.303
64	10	Biased	129.9	133.94	4.0356
65	10	Unbiased	121.15	122.58	1.4304
66	10	Unbiased	117.66	122.95	5.2965
67	10	Unbiased	135.27	139.63	4.3589
68	10	Unbiased	135.57	135.84	0.2768
69	10	Unbiased	134.71	126.44	-8.2674
100	20	Biased	126.37	124.17	-2.2023
200	20	Biased	124.34	123.3	-1.0432
300	20	Biased	118.38	118.98	0.5938
400	20	Biased	136.5	136.89	0.3898
500	20	Biased	128.44	129.66	1.2156
600	20	Unbiased	128.57	127.49	-1.0824
700	20	Unbiased	128.88	129.92	1.0374
800	20	Unbiased	126.04	125.51	-0.5259
900	20	Unbiased	131.11	132.01	0.9022
1000	20	Unbiased	131.43	130.98	-0.4522
1100	30	Biased	128.49	130.08	1.5853
1200	30	Biased	125.37	124.38	-0.9842
1300	30	Biased	131.29	131.56	0.2647
1400	30	Biased	127.82	129.11	1.2865
1500	30	Biased	119.46	121.57	2.1096
1600	30	Unbiased	118.22	118.38	0.156
1700	30	Unbiased	123.05	123.58	0.5298
1800	30	Unbiased	122.83	123.77	0.9466
1900	30	Unbiased	129.55	130.95	1.3947
2000	30	Unbiased	125.01	124.97	-0.0422
2100	50	Biased-84Hr-Anneal	127.06	128.59	1.5241
2200	50	Biased-84Hr-Anneal	116.97	132.65	15.677
2300	50	Biased-84Hr-Anneal	127.23	126.05	-1.1809
2400	50	Biased-84Hr-Anneal	137.53	140.24	2.712
2500	50	Biased-84Hr-Anneal	125.31	125.05	-0.2568
2600	50	Unbiased	128.78	129.64	0.8636
2700	50	Unbiased	133.02	134.37	1.3439
2800	50	Unbiased	126.38	126.19	-0.1872
2900	50	Unbiased	124.79	121.9	-2.8987
3000	50	Unbiased	119.09	118.15	-0.9459
4000	100	Biased-168Hr-Anneal	134	132.62	-1.3823
4100	100	Biased-168Hr-Anneal	128.06	128.13	0.073
4200	100	Biased-168Hr-Anneal	130.21	129.7	-0.508
4300	100	Biased-168Hr-Anneal	123.1	124.73	1.6231
4400	100	Biased-168Hr-Anneal	134.97	136.56	1.587
4500	100	Unbiased-168Hr-Anneal	125.57	124.35	-1.2203
4600	100	Unbiased-168Hr-Anneal	130.49	130.04	-0.4541
4700	100	Unbiased-168Hr-Anneal	133.29	133.56	0.2673
4800	100	Unbiased-168Hr-Anneal	137.8	136.84	-0.9541
4900	100	Unbiased-168Hr-Anneal	130.85	130.05	-0.8064
9300	0	CORRELATION	123.06	126.71	3.6462
9400	0	CORRELATION	124.18	124.38	0.1995
9500	0	CORRELATION	126.23	126.43	0.1966
9600	0	CORRELATION	131.39	131.46	0.0744
9700	0	CORRELATION	126.09	126.01	-0.0845

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	123.06	126.19	131.39	3.1941	124.38	127	131.46	2.6524	-0.0845	0.80644	3.6462	1.5917
3	114.3	125.76	135.15	5.9934	119.43	127.17	135.74	5.9366	-8.6052	1.406	9.6498	5.9277
10	117.66	129.04	140.06	7.4135	119.2	130.41	143.17	8.6813	-20.855	1.3715	14.303	10.231
20	118.38	128.01	136.5	4.8005	118.98	127.89	136.89	5.1096	-2.2023	-0.11672	1.2156	1.1219
30	118.22	125.11	131.29	4.2904	118.38	125.83	131.56	4.3921	-0.9842	0.72468	2.1096	0.91614
50	116.97	126.62	137.53	5.963	118.15	128.28	140.24	6.3618	-2.8987	1.6651	15.677	5.1755
100	123.1	130.83	137.8	4.4378	124.35	130.66	136.84	4.3235	-1.3823	-0.17748	1.6231	1.0718

Device Test: 20.106 LEVEL|HIGHSIDE/SW/12/6///@R_HS_6A_25C_HTSSOP





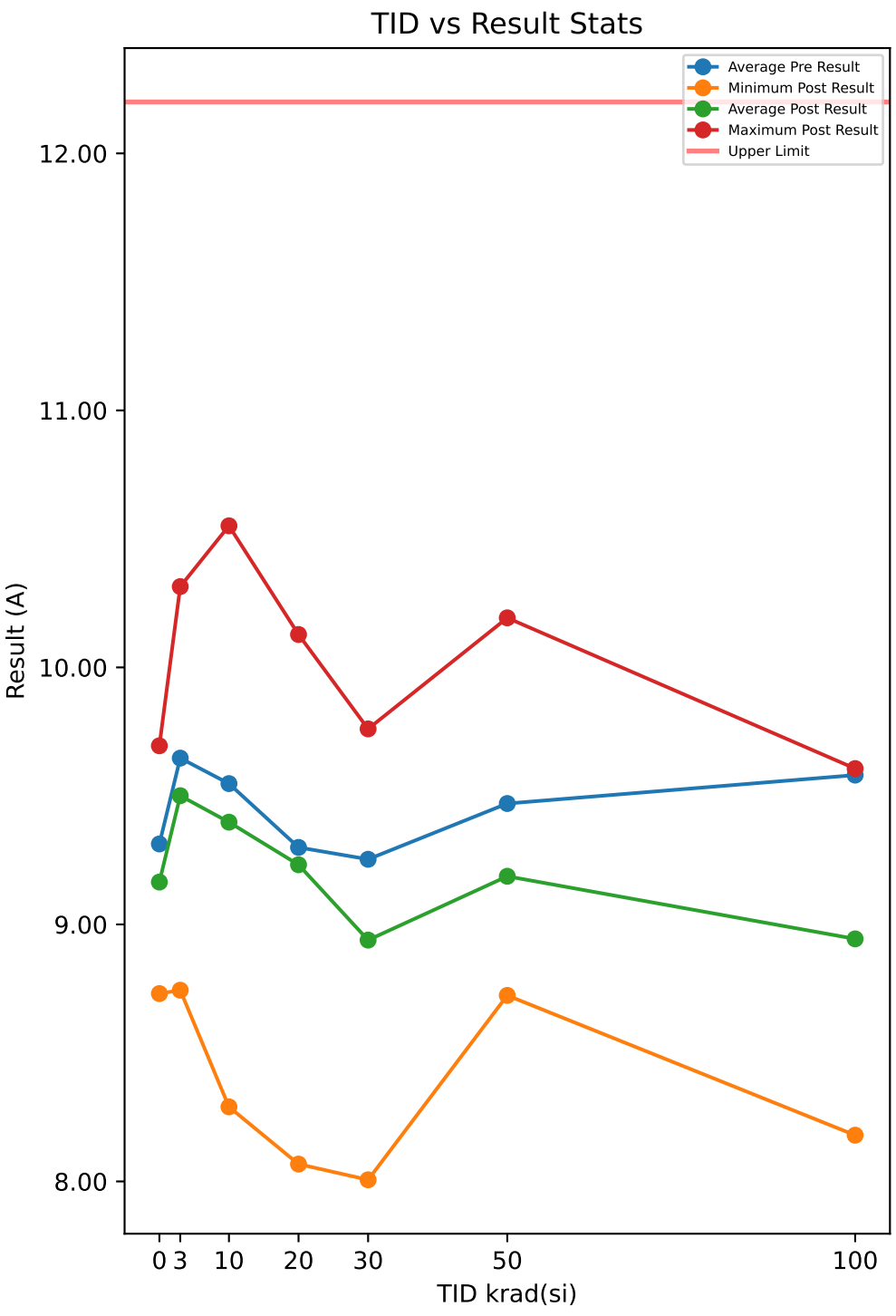
Test Results (Upper Limit = 46.0 (mohm))

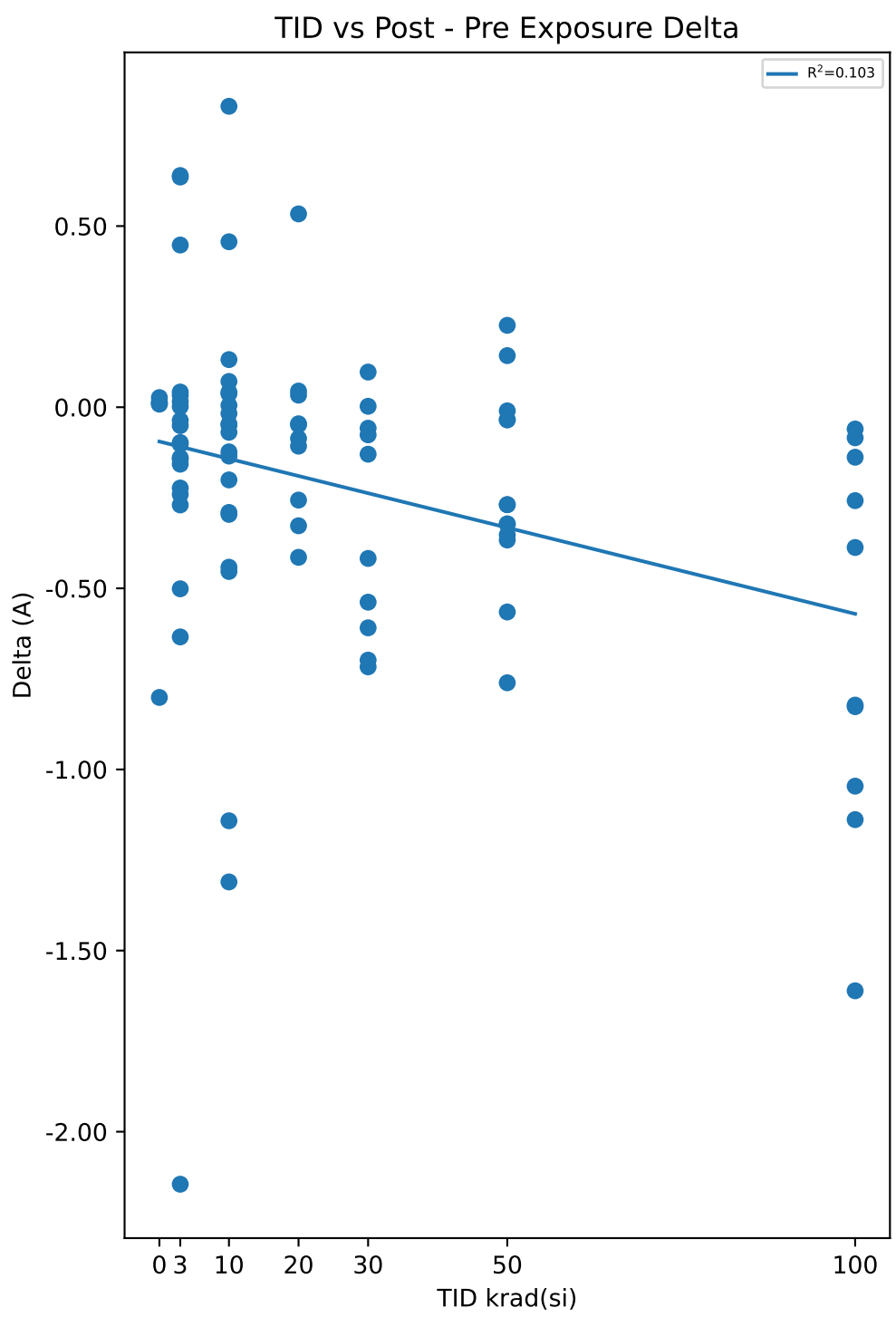
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	30.746	31.161	0.4146
51	3	Biased	31.414	30.779	-0.6348
52	3	Biased	32.041	31.023	-1.019
53	3	Biased	31.103	31.031	-0.0722
54	3	Biased	31.338	31.375	0.0369
55	3	Unbiased	30.285	30.921	0.6357
56	3	Unbiased	31.207	31.166	-0.0408
57	3	Unbiased	30.92	30.211	-0.7092
58	3	Unbiased	31.553	30.704	-0.849
59	3	Unbiased	31.083	31.29	0.2076
60	10	Biased	31.23	30.989	-0.2413
61	10	Biased	31.049	30.648	-0.4017
62	10	Biased	31.247	32.006	0.7597
63	10	Biased	31.566	30.787	-0.7791
64	10	Biased	30.933	30.668	-0.2651
65	10	Unbiased	31.036	31.277	0.2416
66	10	Unbiased	31.608	32.467	0.8588
67	10	Unbiased	31.542	31.344	-0.1976
68	10	Unbiased	31.169	30.656	-0.5134
69	10	Unbiased	31.582	30.783	-0.7992
100	20	Biased	31.425	31.655	0.23
200	20	Biased	30.852	30.642	-0.2094
300	20	Biased	31.152	31.162	0.0103
400	20	Biased	30.903	30.92	0.0166
500	20	Biased	31.616	31.983	0.3669
600	20	Unbiased	31.268	31.408	0.1392
700	20	Unbiased	31.231	31.307	0.0759
800	20	Unbiased	31.264	31.379	0.1147
900	20	Unbiased	31.514	31.578	0.064
1000	20	Unbiased	30.894	30.694	-0.2002
1100	30	Biased	31.314	31.366	0.0525
1200	30	Biased	31.316	31.274	-0.0417
1300	30	Biased	31.004	30.864	-0.1405
1400	30	Biased	30.943	30.479	-0.4648
1500	30	Biased	30.969	30.619	-0.3496
1600	30	Unbiased	31.265	30.954	-0.3105
1700	30	Unbiased	30.659	30.398	-0.2607
1800	30	Unbiased	31.178	30.94	-0.2375
1900	30	Unbiased	31.137	31.07	-0.0671
2000	30	Unbiased	32.374	33.008	0.6342
2100	50	Biased-84Hr-Anneal	31.559	31.953	0.394
2200	50	Biased-84Hr-Anneal	31.374	32.035	0.6612
2300	50	Biased-84Hr-Anneal	31.511	31.58	0.0687
2400	50	Biased-84Hr-Anneal	30.962	30.924	-0.0381
2500	50	Biased-84Hr-Anneal	30.771	30.592	-0.179
2600	50	Unbiased	31.471	32.351	0.8799
2700	50	Unbiased	31.057	31.137	0.0803
2800	50	Unbiased	31.572	32.401	0.8287
2900	50	Unbiased	31.186	31.238	0.0522
3000	50	Unbiased	31.31	31.525	0.2151
4000	100	Biased-168Hr-Anneal	30.184	29.394	-0.7902
4100	100	Biased-168Hr-Anneal	30.656	31.113	0.4571
4200	100	Biased-168Hr-Anneal	30.633	31.589	0.9563
4300	100	Biased-168Hr-Anneal	30.64	30.585	-0.0543
4400	100	Biased-168Hr-Anneal	31.083	32.006	0.9232
4500	100	Unbiased-168Hr-Anneal	30.295	29.558	-0.7375
4600	100	Unbiased-168Hr-Anneal	30.722	31.279	0.5571
4700	100	Unbiased-168Hr-Anneal	30.997	31.66	0.6623
4800	100	Unbiased-168Hr-Anneal	30.633	30.613	-0.019
4900	100	Unbiased-168Hr-Anneal	30.773	30.936	0.1622
9300	0	CORRELATION	31.335	31.343	0.0078
9400	0	CORRELATION	30.739	30.663	-0.0763
9500	0	CORRELATION	30.821	30.724	-0.0969
9600	0	CORRELATION	30.871	30.808	-0.0625
9700	0	CORRELATION	30.209	30.154	-0.0546

Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	30.209	30.795	31.335	0.40155	30.154	30.739	31.343	0.42355	-0.0969	-0.0565	0.0078	0.039365
3	30.285	31.169	32.041	0.47525	30.211	30.966	31.375	0.33897	-1.019	-0.20302	0.6357	0.56571
10	30.933	31.296	31.608	0.25735	30.648	31.162	32.467	0.62726	-0.7992	-0.13373	0.8588	0.58046
20	30.852	31.212	31.616	0.26571	30.642	31.273	31.983	0.42724	-0.2094	0.0608	0.3669	0.17551
30	30.659	31.216	32.374	0.45468	30.398	31.097	33.008	0.74198	-0.4648	-0.11857	0.6342	0.30721
50	30.771	31.277	31.572	0.27513	30.592	31.574	32.401	0.60875	-0.179	0.2963	0.8799	0.37552
100	30.184	30.662	31.083	0.27295	29.394	30.873	32.006	0.86342	-0.7902	0.21172	0.9563	0.62133

Device Test: 20.107 THRESHOLD|RISE/SW/12////@HS_CURR_LIM_6A_HTSSOP





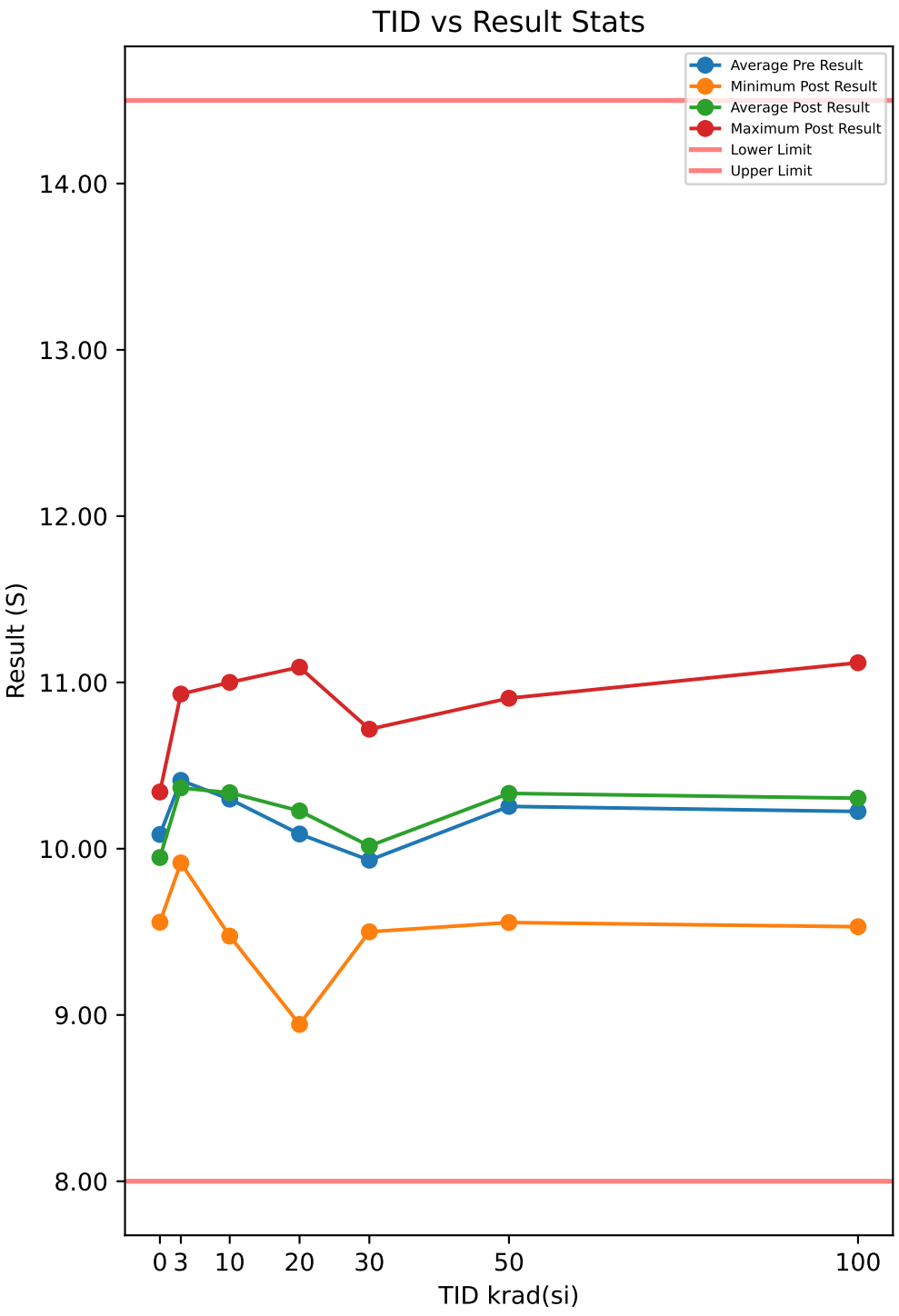
Test Results (Upper Limit = 12.2 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	9.6078	10.056	0.4477
51	3	Biased	8.6335	9.2689	0.6354
52	3	Biased	10.408	10.184	-0.2231
53	3	Biased	9.47	9.2293	-0.2407
54	3	Biased	9.5281	9.2583	-0.2698
55	3	Unbiased	9.2983	9.9378	0.6395
56	3	Unbiased	10.273	10.314	0.0419
57	3	Unbiased	9.3781	8.744	-0.6341
58	3	Unbiased	10.944	8.7987	-2.145
59	3	Unbiased	9.7175	9.2162	-0.5013
60	10	Biased	9.8849	9.8354	-0.0495
61	10	Biased	9.9611	8.8194	-1.1417
62	10	Biased	9.7275	9.2858	-0.4417
63	10	Biased	9.5288	9.5705	0.0417
64	10	Biased	9.2786	9.3157	0.0371
65	10	Unbiased	9.4148	9.8715	0.4567
66	10	Unbiased	9.7202	10.551	0.8307
67	10	Unbiased	9.3855	9.4566	0.0711
68	10	Unbiased	9.4359	8.9824	-0.4535
69	10	Unbiased	9.6006	8.2901	-1.3105
100	20	Biased	8.7105	9.2441	0.5336
200	20	Biased	9.7222	9.3078	-0.4144
300	20	Biased	9.7688	9.4415	-0.3273
400	20	Biased	9.1298	8.8734	-0.2564
500	20	Biased	9.7334	9.647	-0.0864
600	20	Unbiased	9.3183	9.3516	0.0333
700	20	Unbiased	9.4274	9.3816	-0.0458
800	20	Unbiased	8.8344	8.879	0.0446
900	20	Unbiased	10.177	10.128	-0.0486
1000	20	Unbiased	8.1749	8.0674	-0.1075
1100	30	Biased	9.0667	8.6492	-0.4175
1200	30	Biased	9.6843	9.1461	-0.5382
1300	30	Biased	8.7045	8.0063	-0.6982
1400	30	Biased	9.6067	8.89	-0.7167
1500	30	Biased	8.9525	8.3435	-0.609
1600	30	Unbiased	9.3187	9.189	-0.1297
1700	30	Unbiased	8.9127	8.9152	0.0025
1800	30	Unbiased	9.8187	9.7607	-0.058
1900	30	Unbiased	8.8954	8.8191	-0.0763
2000	30	Unbiased	9.5738	9.6708	0.097
2100	50	Biased-84Hr-Anneal	9.2231	8.9008	-0.3223
2200	50	Biased-84Hr-Anneal	9.9153	9.563	-0.3523
2300	50	Biased-84Hr-Anneal	9.241	8.8744	-0.3666
2400	50	Biased-84Hr-Anneal	9.2891	8.7238	-0.5653
2500	50	Biased-84Hr-Anneal	9.5169	8.7562	-0.7607
2600	50	Unbiased	9.7725	9.9985	0.226
2700	50	Unbiased	9.2409	9.2069	-0.034
2800	50	Unbiased	9.2846	9.427	0.1424
2900	50	Unbiased	10.228	10.193	-0.0351
3000	50	Unbiased	8.9925	8.9824	-0.0101
4000	100	Biased-168Hr-Anneal	10.826	9.2147	-1.611
4100	100	Biased-168Hr-Anneal	9.6287	8.5826	-1.0461
4200	100	Biased-168Hr-Anneal	9.3187	8.492	-0.8267
4300	100	Biased-168Hr-Anneal	9.3184	8.1799	-1.1385
4400	100	Biased-168Hr-Anneal	9.5566	8.7342	-0.8224
4500	100	Unbiased-168Hr-Anneal	9.5323	9.145	-0.3873
4600	100	Unbiased-168Hr-Anneal	9.2889	9.2287	-0.0602
4700	100	Unbiased-168Hr-Anneal	9.4173	9.3329	-0.0844
4800	100	Unbiased-168Hr-Anneal	9.1786	8.9207	-0.2579
4900	100	Unbiased-168Hr-Anneal	9.7445	9.6064	-0.1381
9300	0	CORRELATION	9.5321	8.7309	-0.8012
9400	0	CORRELATION	8.7964	8.8048	0.0084
9500	0	CORRELATION	9.6684	9.695	0.0266
9600	0	CORRELATION	9.071	9.0857	0.0147
9700	0	CORRELATION	9.4976	9.5075	0.0099

Test Statistics (A)

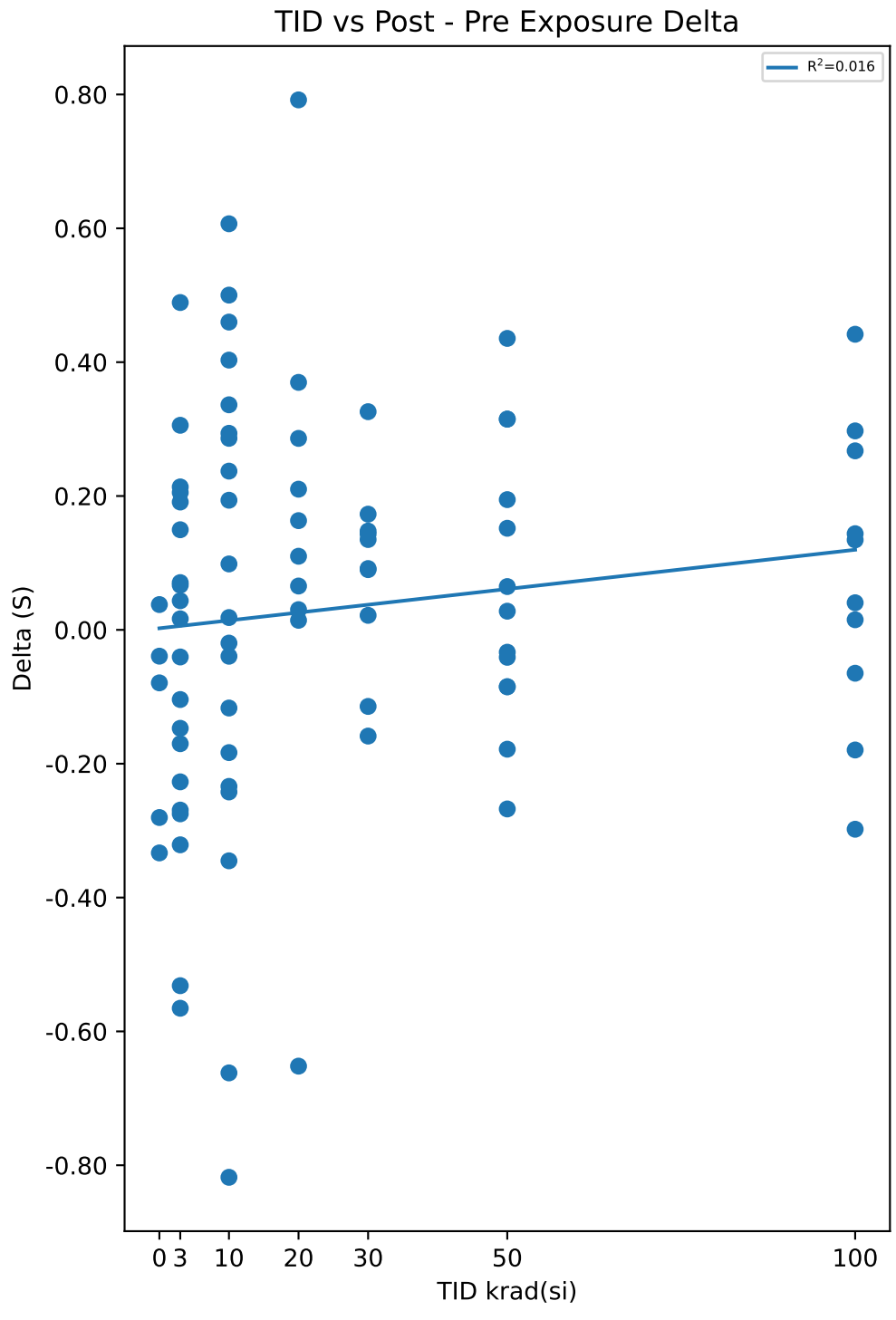
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.7964	9.3131	9.6684	0.36532	8.7309	9.1648	9.695	0.42505	-0.8012	-0.14832	0.0266	0.36504
3	8.6335	9.7257	10.944	0.65509	8.744	9.5008	10.314	0.57359	-2.145	-0.22495	0.6395	0.81266
10	9.2786	9.5938	9.9611	0.22546	8.2901	9.3978	10.551	0.62647	-1.3105	-0.19596	0.8307	0.66223
20	8.1749	9.2996	10.177	0.59907	8.0674	9.2321	10.128	0.54477	-0.4144	-0.06749	0.5336	0.26042
30	8.7045	9.2534	9.8187	0.39552	8.0063	8.939	9.7607	0.54181	-0.7167	-0.31441	0.097	0.3132
50	8.9925	9.4704	10.228	0.38404	8.7238	9.2626	10.193	0.52005	-0.7607	-0.2078	0.226	0.31669
100	9.1786	9.581	10.826	0.47059	8.1799	8.9437	9.6064	0.44072	-1.611	-0.63726	-0.0602	0.5303

Device Test: 20.109 GMPS|STATIC/SW/12////@EA_GMPS_9A_HTSSOP



Test Results (Lower Limit = 8.0, Upper Limit = 14.5 (S))

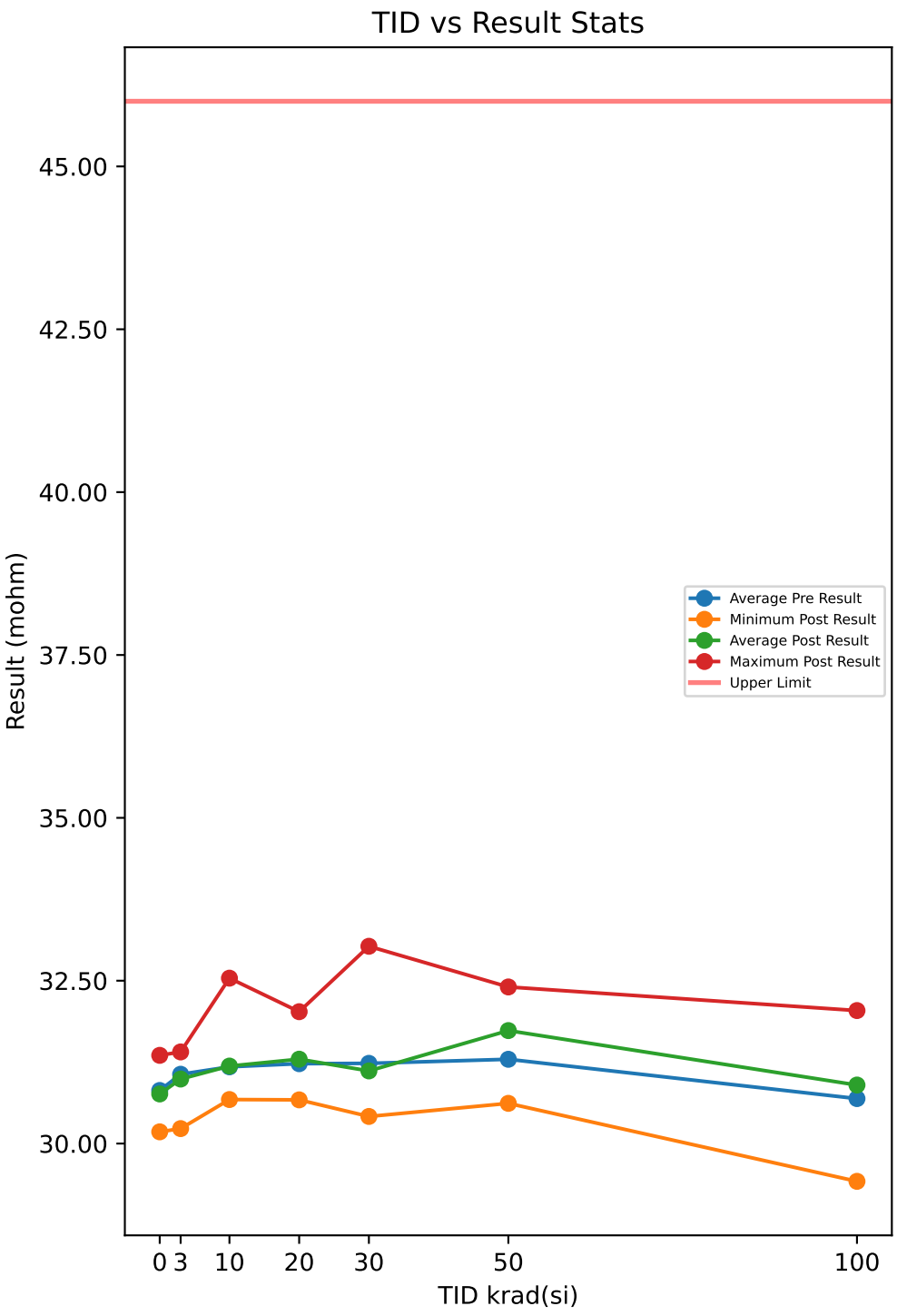
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	10.069	10.136	0.0668
51	3	Biased	9.9674	10.457	0.4891
52	3	Biased	11.157	10.93	-0.2271
53	3	Biased	10.347	10.2	-0.1471
54	3	Biased	10.306	10.377	0.0706
55	3	Unbiased	10.583	10.774	0.191
56	3	Unbiased	10.496	10.326	-0.1701
57	3	Unbiased	10.093	10.307	0.2136
58	3	Unbiased	10.802	10.237	-0.5654
59	3	Unbiased	9.7093	9.9145	0.2052
60	10	Biased	10.271	10.608	0.3363
61	10	Biased	10.288	10.481	0.1937
62	10	Biased	10.925	10.262	-0.662
63	10	Biased	9.9425	9.8257	-0.1168
64	10	Biased	10.5	10.737	0.2372
65	10	Unbiased	9.9528	10.413	0.4599
66	10	Unbiased	10.902	11	0.0985
67	10	Unbiased	9.9619	10.569	0.6068
68	10	Unbiased	9.7041	9.9978	0.2937
69	10	Unbiased	10.292	9.4744	-0.818
100	20	Biased	9.6165	10.408	0.7919
200	20	Biased	10.421	10.435	0.0143
300	20	Biased	9.6246	9.8348	0.2102
400	20	Biased	9.5952	8.9433	-0.6519
500	20	Biased	10.806	11.092	0.2861
600	20	Unbiased	10.461	10.83	0.3698
700	20	Unbiased	10.531	10.695	0.1632
800	20	Unbiased	9.9905	10.021	0.0302
900	20	Unbiased	10.599	10.709	0.11
1000	20	Unbiased	9.2384	9.3039	0.0655
1100	30	Biased	9.5769	9.5986	0.0217
1200	30	Biased	10.287	10.421	0.135
1300	30	Biased	9.8122	9.6535	-0.1587
1400	30	Biased	9.7082	9.8811	0.1729
1500	30	Biased	10.147	10.239	0.0916
1600	30	Unbiased	10.458	10.601	0.1432
1700	30	Unbiased	9.6146	9.5002	-0.1144
1800	30	Unbiased	9.5971	9.6871	0.09
1900	30	Unbiased	9.5368	9.8628	0.326
2000	30	Unbiased	10.571	10.719	0.1476
2100	50	Biased-84Hr-Anneal	10.322	10.237	-0.085
2200	50	Biased-84Hr-Anneal	10.274	10.71	0.4355
2300	50	Biased-84Hr-Anneal	10.084	10.236	0.1518
2400	50	Biased-84Hr-Anneal	10.393	10.36	-0.0334
2500	50	Biased-84Hr-Anneal	9.5281	9.556	0.0279
2600	50	Unbiased	10.034	10.099	0.0647
2700	50	Unbiased	10.451	10.273	-0.1783
2800	50	Unbiased	10.458	10.653	0.1946
2900	50	Unbiased	11.172	10.905	-0.2676
3000	50	Unbiased	9.8253	9.7843	-0.041
4000	100	Biased-168Hr-Anneal	10.851	11.118	0.2675
4100	100	Biased-168Hr-Anneal	9.5944	10.036	0.4417
4200	100	Biased-168Hr-Anneal	10.225	10.24	0.0151
4300	100	Biased-168Hr-Anneal	10.057	10.2	0.1437
4400	100	Biased-168Hr-Anneal	10.784	10.824	0.0405
4500	100	Unbiased-168Hr-Anneal	10.163	10.098	-0.0648
4600	100	Unbiased-168Hr-Anneal	9.7102	9.5307	-0.1795
4700	100	Unbiased-168Hr-Anneal	10.171	10.468	0.2973
4800	100	Unbiased-168Hr-Anneal	10.159	10.293	0.1344
4900	100	Unbiased-168Hr-Anneal	10.527	10.229	-0.2979
9300	0	CORRELATION	9.8384	9.558	-0.2804
9400	0	CORRELATION	9.8178	9.8556	0.0378
9500	0	CORRELATION	10.246	10.167	-0.0792
9600	0	CORRELATION	10.145	9.8116	-0.3333
9700	0	CORRELATION	10.38	10.341	-0.0393

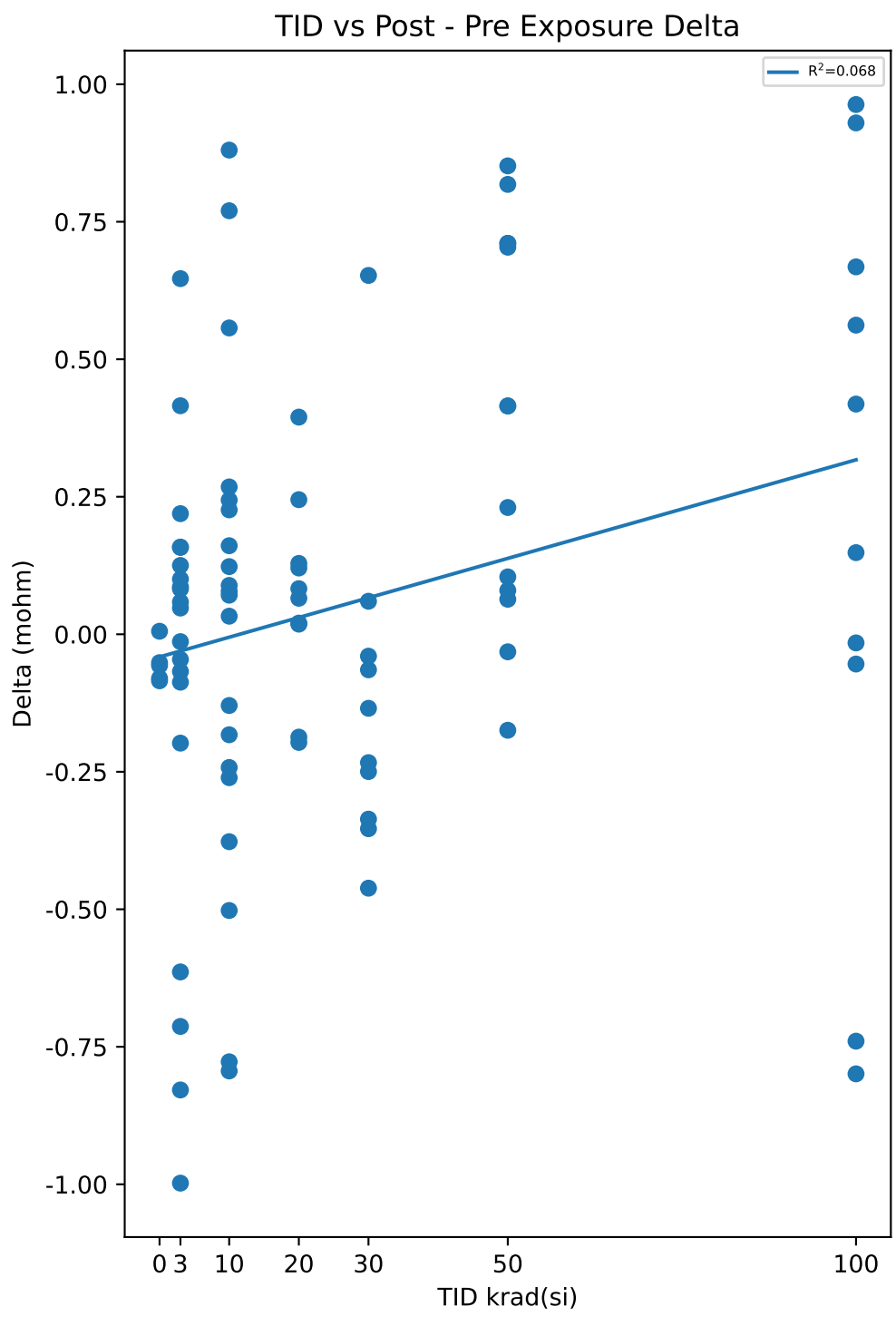


Test Statistics (S)

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	9.8178	10.086	10.38	0.24951	9.558	9.9467	10.341	0.3089	-0.3333	-0.13888	0.0378	0.16009
3	9.7093	10.353	11.157	0.42626	9.9145	10.366	10.93	0.29796	-0.5654	0.01266	0.4891	0.29685
10	9.7041	10.274	10.925	0.40877	9.4744	10.337	11	0.45696	-0.818	0.06293	0.6068	0.46714
20	9.2384	10.088	10.806	0.54094	8.9433	10.227	11.092	0.69405	-0.6519	0.13893	0.7919	0.35994
30	9.5368	9.9308	10.571	0.3967	9.5002	10.016	10.719	0.44365	-0.1587	0.08549	0.326	0.14096
50	9.5281	10.254	11.172	0.43925	9.556	10.281	10.905	0.41193	-0.2676	0.02692	0.4355	0.20048
100	9.5944	10.224	10.851	0.40786	9.5307	10.304	11.118	0.43375	-0.2979	0.0798	0.4417	0.22537

Device Test: 20.157 LEVEL|HIGHSIDE/SW/14/6///@R_HS_6A_25C_HTSSOP





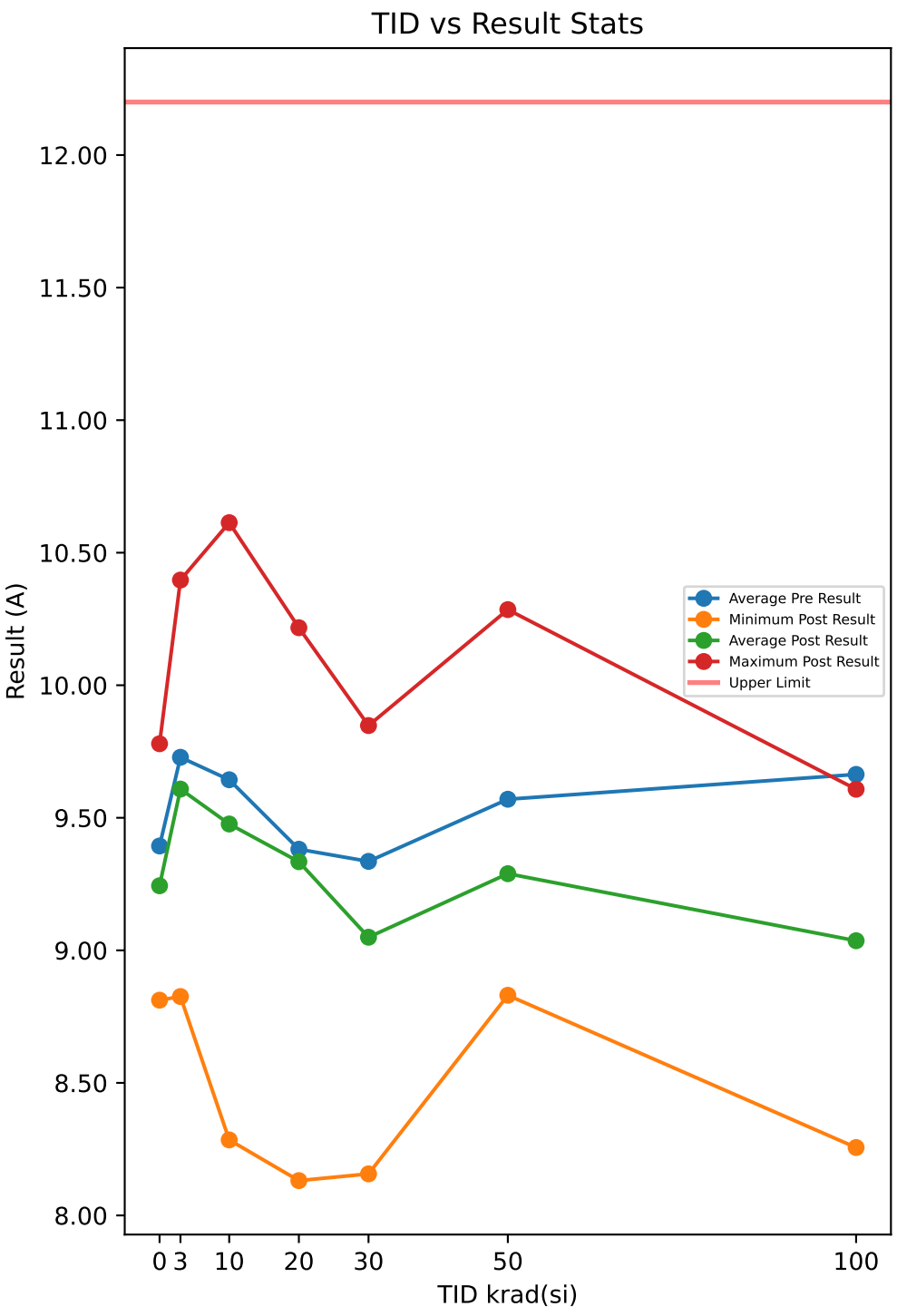
Test Results (Upper Limit = 46.0 (mohm))

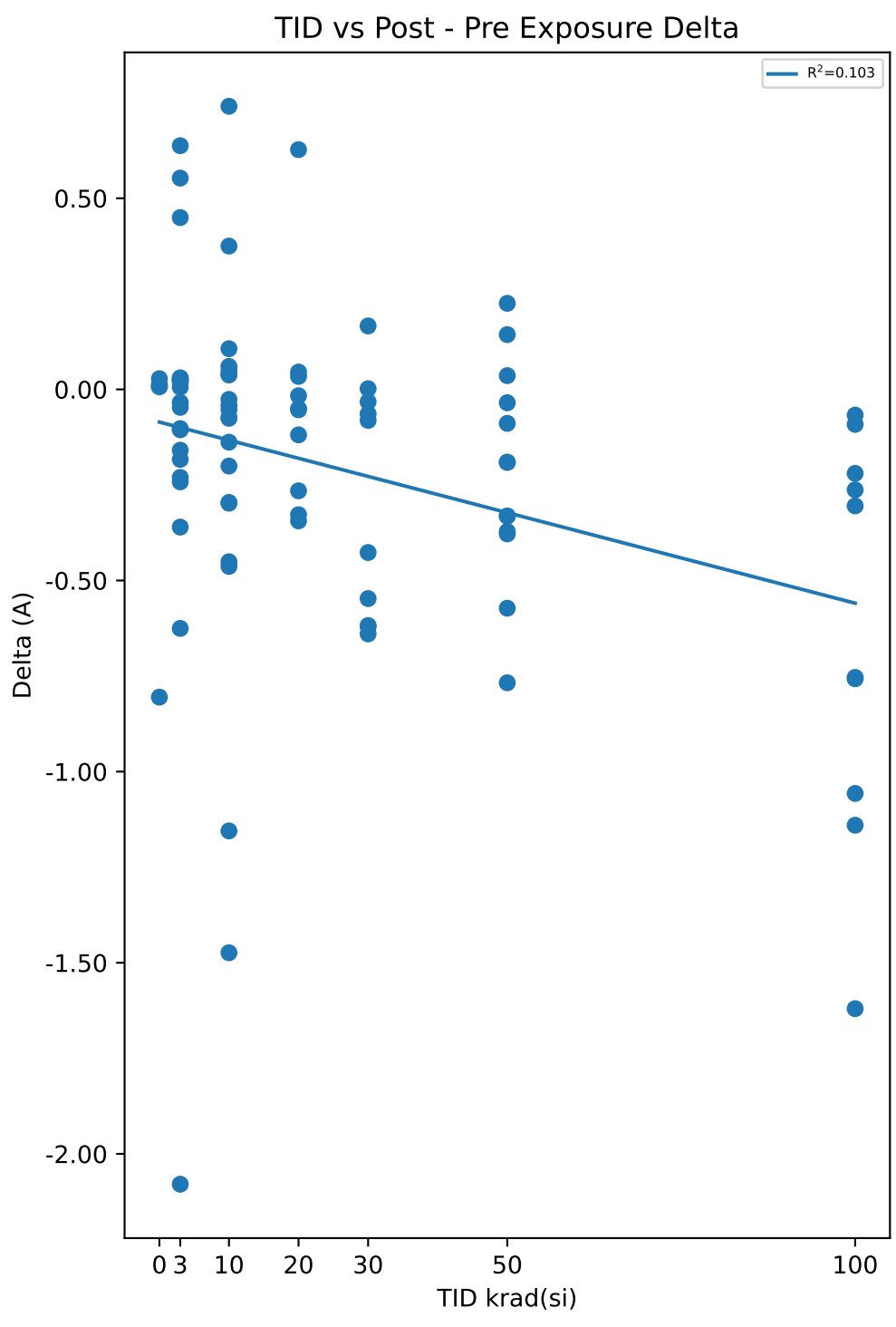
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	30.762	31.178	0.4155
51	3	Biased	31.415	30.801	-0.6139
52	3	Biased	32.037	31.039	-0.9979
53	3	Biased	31.119	31.051	-0.0676
54	3	Biased	31.348	31.407	0.0586
55	3	Unbiased	30.305	30.952	0.6466
56	3	Unbiased	31.212	31.199	-0.0134
57	3	Unbiased	30.942	30.23	-0.713
58	3	Unbiased	31.562	30.733	-0.8285
59	3	Unbiased	31.096	31.316	0.2193
60	10	Biased	31.245	31.002	-0.2422
61	10	Biased	31.053	30.676	-0.3771
62	10	Biased	31.262	32.032	0.77
63	10	Biased	31.586	30.809	-0.7773
64	10	Biased	30.95	30.689	-0.2607
65	10	Unbiased	31.046	31.29	0.244
66	10	Unbiased	31.659	32.539	0.8803
67	10	Unbiased	31.553	31.37	-0.1827
68	10	Unbiased	31.184	30.682	-0.5022
69	10	Unbiased	31.6	30.806	-0.7939
100	20	Biased	31.425	31.67	0.2447
200	20	Biased	30.858	30.671	-0.187
300	20	Biased	31.173	31.191	0.0184
400	20	Biased	30.923	30.943	0.0203
500	20	Biased	31.629	32.024	0.3948
600	20	Unbiased	31.285	31.414	0.1288
700	20	Unbiased	31.239	31.322	0.0829
800	20	Unbiased	31.281	31.402	0.1205
900	20	Unbiased	31.53	31.595	0.0655
1000	20	Unbiased	30.917	30.721	-0.1966
1100	30	Biased	31.328	31.388	0.06
1200	30	Biased	31.329	31.29	-0.0398
1300	30	Biased	31.028	30.893	-0.1346
1400	30	Biased	30.962	30.501	-0.4616
1500	30	Biased	30.986	30.649	-0.3361
1600	30	Unbiased	31.303	30.949	-0.3535
1700	30	Unbiased	30.666	30.416	-0.2496
1800	30	Unbiased	31.192	30.958	-0.2334
1900	30	Unbiased	31.143	31.079	-0.0646
2000	30	Unbiased	32.376	33.028	0.6524
2100	50	Biased-84Hr-Anneal	31.57	31.985	0.4151
2200	50	Biased-84Hr-Anneal	31.383	32.087	0.7037
2300	50	Biased-84Hr-Anneal	31.535	31.615	0.0798
2400	50	Biased-84Hr-Anneal	30.987	30.955	-0.0319
2500	50	Biased-84Hr-Anneal	30.792	30.617	-0.1745
2600	50	Unbiased	31.483	32.335	0.8516
2700	50	Unbiased	31.076	31.18	0.1043
2800	50	Unbiased	31.586	32.404	0.8179
2900	50	Unbiased	31.198	31.261	0.0637
3000	50	Unbiased	31.326	31.557	0.2305
4000	100	Biased-168Hr-Anneal	30.219	29.42	-0.7992
4100	100	Biased-168Hr-Anneal	30.695	31.113	0.4185
4200	100	Biased-168Hr-Anneal	30.661	31.624	0.9631
4300	100	Biased-168Hr-Anneal	30.663	30.609	-0.0541
4400	100	Biased-168Hr-Anneal	31.112	32.042	0.9297
4500	100	Unbiased-168Hr-Anneal	30.315	29.575	-0.7398
4600	100	Unbiased-168Hr-Anneal	30.743	31.305	0.562
4700	100	Unbiased-168Hr-Anneal	31.028	31.696	0.668
4800	100	Unbiased-168Hr-Anneal	30.66	30.644	-0.0157
4900	100	Unbiased-168Hr-Anneal	30.806	30.955	0.1484
9300	0	CORRELATION	31.349	31.354	0.0055
9400	0	CORRELATION	30.761	30.681	-0.08
9500	0	CORRELATION	30.836	30.751	-0.0846
9600	0	CORRELATION	30.897	30.84	-0.0567
9700	0	CORRELATION	30.232	30.18	-0.0516

Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	30.232	30.815	31.349	0.39847	30.18	30.761	31.354	0.41894	-0.0846	-0.05348	0.0055	0.035932
3	30.305	31.18	32.037	0.46788	30.23	30.99	31.407	0.34093	-0.9979	-0.18943	0.6466	0.56329
10	30.95	31.314	31.659	0.26431	30.676	31.19	32.539	0.63888	-0.7939	-0.12418	0.8803	0.58329
20	30.858	31.226	31.629	0.26391	30.671	31.295	32.024	0.4272	-0.1966	0.06923	0.3948	0.17778
30	30.666	31.231	32.376	0.45184	30.416	31.115	33.028	0.74167	-0.4616	-0.11608	0.6524	0.31378
50	30.792	31.294	31.586	0.27245	30.617	31.6	32.404	0.60069	-0.1745	0.30602	0.8516	0.36985
100	30.219	30.69	31.112	0.27349	29.42	30.898	32.042	0.86722	-0.7992	0.20809	0.9631	0.62426

Device Test: 20.158 THRESHOLD|RISE/SW/14////@HS_CURR_LIM_6A_HTSSOP





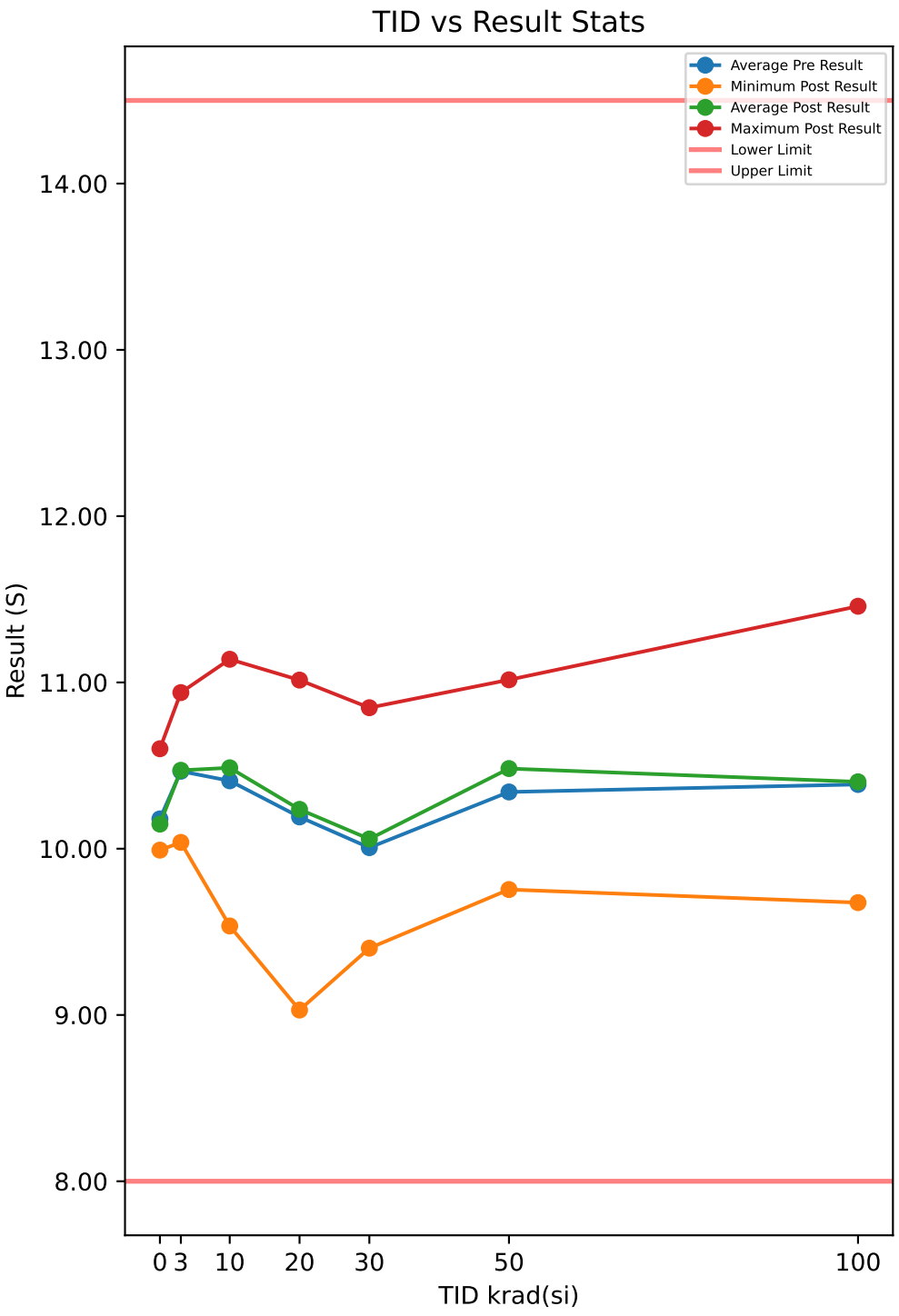
Test Results (Upper Limit = 12.2 (A))

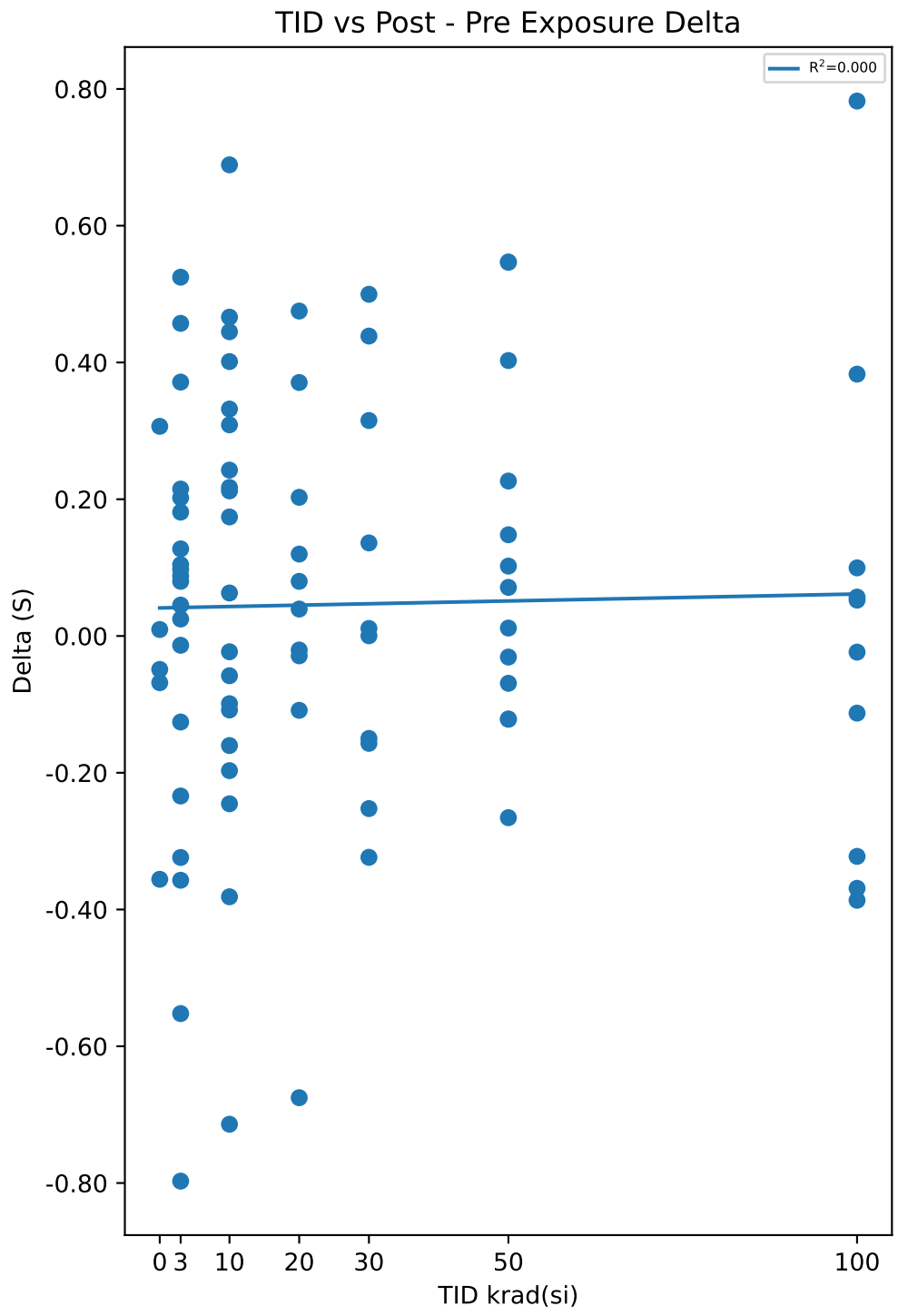
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	9.695	10.145	0.4495
51	3	Biased	8.7136	9.3511	0.6375
52	3	Biased	10.501	10.271	-0.2304
53	3	Biased	9.554	9.3121	-0.2419
54	3	Biased	9.6107	9.4276	-0.1831
55	3	Unbiased	9.4685	10.021	0.5528
56	3	Unbiased	10.371	10.397	0.0257
57	3	Unbiased	9.4511	8.8257	-0.6254
58	3	Unbiased	11.04	8.9611	-2.0794
59	3	Unbiased	9.7328	9.3725	-0.3603
60	10	Biased	9.9722	10.01	0.0378
61	10	Biased	10.052	8.897	-1.1551
62	10	Biased	9.8138	9.3629	-0.4509
63	10	Biased	9.6104	9.6582	0.0478
64	10	Biased	9.3614	9.4002	0.0388
65	10	Unbiased	9.5764	9.9513	0.3749
66	10	Unbiased	9.8727	10.613	0.7406
67	10	Unbiased	9.4712	9.5313	0.0601
68	10	Unbiased	9.5197	9.0566	-0.4631
69	10	Unbiased	9.7587	8.2849	-1.4738
100	20	Biased	8.7838	9.411	0.6272
200	20	Biased	9.8141	9.4701	-0.344
300	20	Biased	9.8501	9.5222	-0.3279
400	20	Biased	9.2088	8.9435	-0.2653
500	20	Biased	9.8158	9.7991	-0.0167
600	20	Unbiased	9.3983	9.4322	0.0339
700	20	Unbiased	9.5146	9.4612	-0.0534
800	20	Unbiased	8.9101	8.9554	0.0453
900	20	Unbiased	10.267	10.217	-0.0503
1000	20	Unbiased	8.2503	8.1313	-0.119
1100	30	Biased	9.1482	8.7214	-0.4268
1200	30	Biased	9.7741	9.2268	-0.5473
1300	30	Biased	8.7772	8.1567	-0.6205
1400	30	Biased	9.6925	9.0528	-0.6397
1500	30	Biased	9.0308	8.413	-0.6178
1600	30	Unbiased	9.3883	9.356	-0.0323
1700	30	Unbiased	8.9986	9.0004	0.0018
1800	30	Unbiased	9.9118	9.8479	-0.0639
1900	30	Unbiased	8.9772	8.896	-0.0812
2000	30	Unbiased	9.657	9.823	0.166
2100	50	Biased-84Hr-Anneal	9.3041	8.9727	-0.3314
2200	50	Biased-84Hr-Anneal	10.008	9.6295	-0.3781
2300	50	Biased-84Hr-Anneal	9.3184	8.9467	-0.3717
2400	50	Biased-84Hr-Anneal	9.4532	8.8807	-0.5725
2500	50	Biased-84Hr-Anneal	9.5981	8.8305	-0.7676
2600	50	Unbiased	9.867	10.092	0.2251
2700	50	Unbiased	9.3199	9.3558	0.0359
2800	50	Unbiased	9.3652	9.5085	0.1433
2900	50	Unbiased	10.32	10.285	-0.035
3000	50	Unbiased	9.146	9.0571	-0.0889
4000	100	Biased-168Hr-Anneal	10.919	9.2988	-1.6201
4100	100	Biased-168Hr-Anneal	9.715	8.658	-1.057
4200	100	Biased-168Hr-Anneal	9.3967	8.6431	-0.7536
4300	100	Biased-168Hr-Anneal	9.3963	8.2561	-1.1402
4400	100	Biased-168Hr-Anneal	9.6362	8.8791	-0.7571
4500	100	Unbiased-168Hr-Anneal	9.6171	9.3123	-0.3048
4600	100	Unbiased-168Hr-Anneal	9.3739	9.3066	-0.0673
4700	100	Unbiased-168Hr-Anneal	9.4966	9.4051	-0.0915
4800	100	Unbiased-168Hr-Anneal	9.2583	8.9955	-0.2628
4900	100	Unbiased-168Hr-Anneal	9.8275	9.6077	-0.2198
9300	0	CORRELATION	9.6171	8.812	-0.8051
9400	0	CORRELATION	8.8728	8.8807	0.0079
9500	0	CORRELATION	9.7513	9.7793	0.028
9600	0	CORRELATION	9.1516	9.1583	0.0067
9700	0	CORRELATION	9.5754	9.5876	0.0122

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.8728	9.3936	9.7513	0.36768	8.812	9.2436	9.7793	0.42736	-0.8051	-0.15006	0.028	0.36628
3	8.7136	9.8138	11.04	0.65646	8.8257	9.6083	10.397	0.55698	-2.0794	-0.2055	0.6375	0.78048
10	9.3614	9.7009	10.052	0.22781	8.2849	9.4766	10.613	0.64886	-1.4738	-0.22429	0.7406	0.6765
20	8.2503	9.3813	10.267	0.60433	8.1313	9.3343	10.217	0.56016	-0.344	-0.04702	0.6272	0.27699
30	8.7772	9.3356	9.9118	0.39994	8.1567	9.0494	9.8479	0.54742	-0.6397	-0.28617	0.166	0.31233
50	9.146	9.57	10.32	0.37644	8.8305	9.3559	10.285	0.5174	-0.7676	-0.21409	0.2251	0.32166
100	9.2583	9.6637	10.919	0.47457	8.2561	9.0362	9.6077	0.42341	-1.6201	-0.62742	-0.0673	0.52385

Device Test: 20.160 GMPS|STATIC/SW/14////@EA_GMPS_9A_HTSSOP





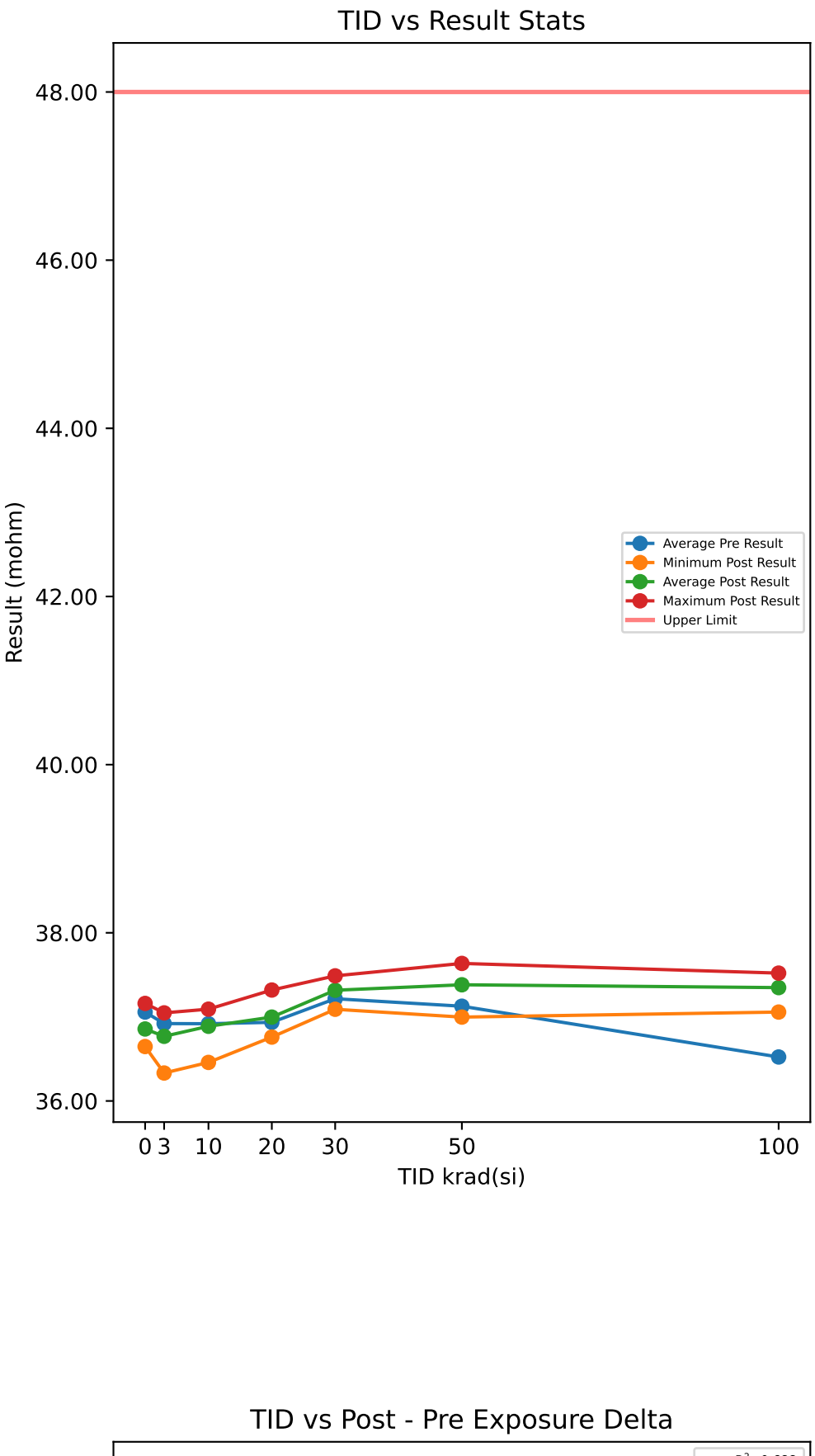
Test Results (Lower Limit = 8.0, Upper Limit = 14.5 (S))

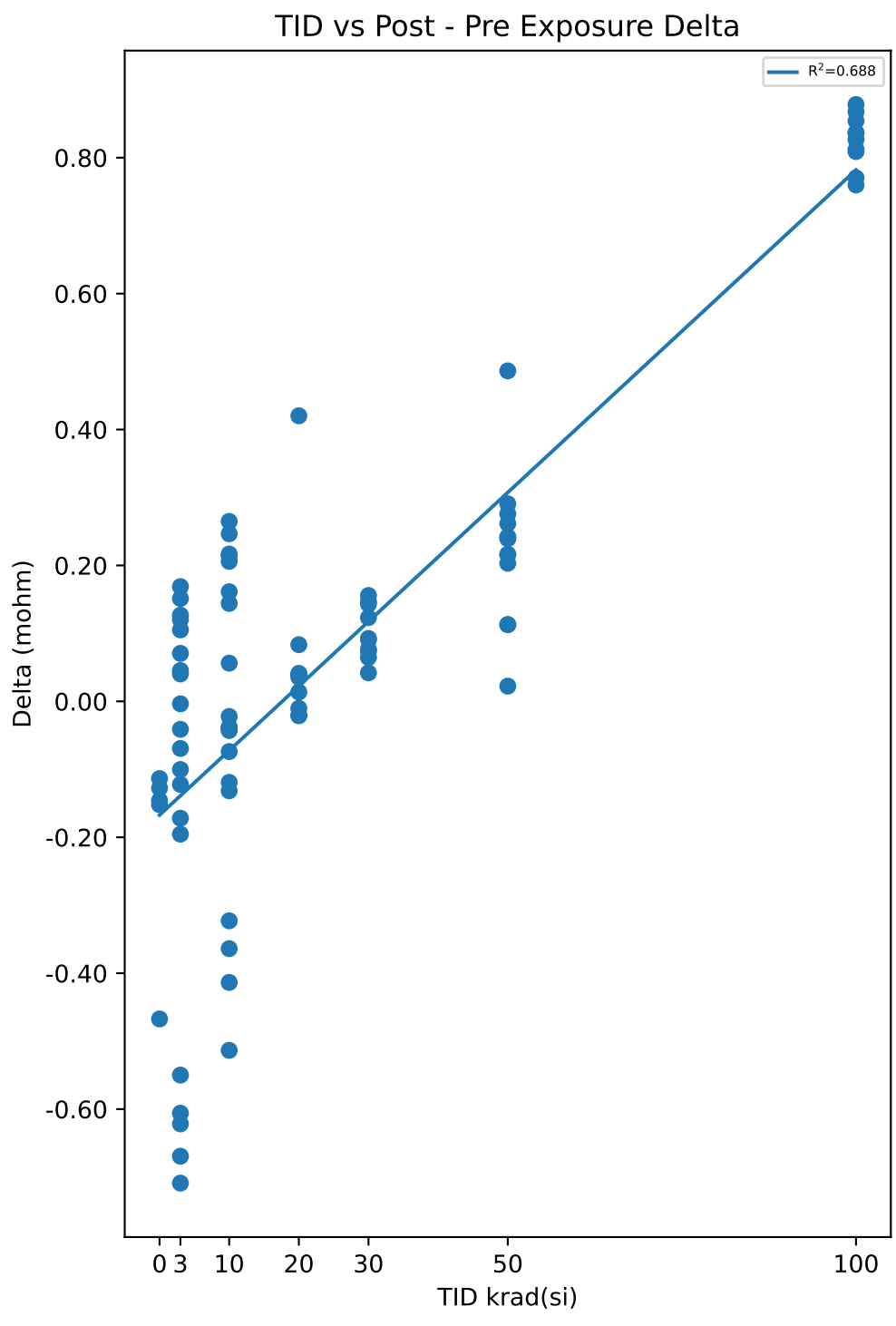
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	10.328	10.407	0.0799
51	3	Biased	10.266	10.481	0.2149
52	3	Biased	10.835	10.939	0.1043
53	3	Biased	10.058	10.26	0.2022
54	3	Biased	10.707	10.155	-0.5522
55	3	Unbiased	10.362	10.887	0.5247
56	3	Unbiased	10.886	10.562	-0.3239
57	3	Unbiased	10.075	10.533	0.4572
58	3	Unbiased	10.835	10.038	-0.7972
59	3	Unbiased	10.083	10.454	0.3713
60	10	Biased	10.497	10.671	0.1741
61	10	Biased	10.394	10.726	0.3319
62	10	Biased	10.683	10.66	-0.0231
63	10	Biased	10.07	9.8731	-0.1969
64	10	Biased	10.397	10.798	0.4013
65	10	Unbiased	10.142	10.587	0.4449
66	10	Unbiased	10.673	11.139	0.4663
67	10	Unbiased	10.021	10.71	0.689
68	10	Unbiased	10.104	10.167	0.0629
69	10	Unbiased	10.249	9.5352	-0.714
100	20	Biased	9.7609	10.132	0.3707
200	20	Biased	10.241	10.28	0.0394
300	20	Biased	9.6692	10.144	0.4752
400	20	Biased	9.7048	9.0296	-0.6752
500	20	Biased	10.811	11.014	0.2028
600	20	Unbiased	10.905	10.885	-0.0205
700	20	Unbiased	10.732	10.851	0.1198
800	20	Unbiased	9.9859	9.8772	-0.1087
900	20	Unbiased	10.833	10.912	0.0799
1000	20	Unbiased	9.2679	9.2389	-0.029
1100	30	Biased	9.8499	9.7001	-0.1498
1200	30	Biased	10.406	10.249	-0.157
1300	30	Biased	9.6981	9.8342	0.1361
1400	30	Biased	9.8424	10.158	0.3151
1500	30	Biased	10.148	10.149	0.0003
1600	30	Unbiased	10.597	10.607	0.011
1700	30	Unbiased	9.7255	9.4018	-0.3237
1800	30	Unbiased	9.9317	9.6793	-0.2524
1900	30	Unbiased	9.5177	9.9563	0.4386
2000	30	Unbiased	10.348	10.848	0.4997
2100	50	Biased-84Hr-Anneal	10.469	10.347	-0.1216
2200	50	Biased-84Hr-Anneal	10.422	10.824	0.4028
2300	50	Biased-84Hr-Anneal	10.293	10.027	-0.2657
2400	50	Biased-84Hr-Anneal	10.45	10.598	0.148
2500	50	Biased-84Hr-Anneal	9.8235	9.7543	-0.0692
2600	50	Unbiased	10.199	10.168	-0.0308
2700	50	Unbiased	10.421	10.432	0.0116
2800	50	Unbiased	10.533	10.635	0.1022
2900	50	Unbiased	10.768	10.839	0.0711
3000	50	Unbiased	10.033	10.26	0.2266
4000	100	Biased-168Hr-Anneal	11.075	11.458	0.3829
4100	100	Biased-168Hr-Anneal	9.8213	10.604	0.7823
4200	100	Biased-168Hr-Anneal	10.274	10.161	-0.1128
4300	100	Biased-168Hr-Anneal	10.446	10.124	-0.3223
4400	100	Biased-168Hr-Anneal	10.896	10.996	0.0996
4500	100	Unbiased-168Hr-Anneal	10.351	10.327	-0.0236
4600	100	Unbiased-168Hr-Anneal	9.6188	9.6757	0.0569
4700	100	Unbiased-168Hr-Anneal	10.393	10.445	0.0524
4800	100	Unbiased-168Hr-Anneal	10.367	9.9977	-0.369
4900	100	Unbiased-168Hr-Anneal	10.621	10.235	-0.3865
9300	0	CORRELATION	10.418	10.062	-0.3558
9400	0	CORRELATION	10.066	9.9978	-0.0683
9500	0	CORRELATION	9.7804	10.087	0.3066
9600	0	CORRELATION	10.04	9.9914	-0.0489
9700	0	CORRELATION	10.592	10.601	0.0095

Test Statistics (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	9.7804	10.179	10.592	0.32331	9.9914	10.148	10.601	0.25666	-0.3558	-0.03138	0.3066	0.23602
3	10.058	10.443	10.886	0.33948	10.038	10.472	10.939	0.28679	-0.7972	0.02812	0.5247	0.44272
10	10.021	10.323	10.683	0.24357	9.5352	10.486	11.139	0.4816	-0.714	0.16364	0.689	0.40509
20	9.2679	10.191	10.905	0.59526	9.0296	10.236	11.014	0.70412	-0.6752	0.04544	0.4752	0.3118
30	9.5177	10.006	10.597	0.35195	9.4018	10.058	10.848	0.44007	-0.3237	0.05179	0.4997	0.28844
50	9.8235	10.341	10.768	0.26773	9.7543	10.389	10.839	0.34939	-0.2657	0.0475	0.4028	0.18847
100	9.6188	10.386	11.075	0.43668	9.6757	10.402	11.458	0.51321	-0.3865	0.01599	0.7823	0.36127

Device Test: 20.4 LEVEL|HIGHSIDE/SW/4.5/6///@R_HS_6A_4V5_25C_HTSSOP





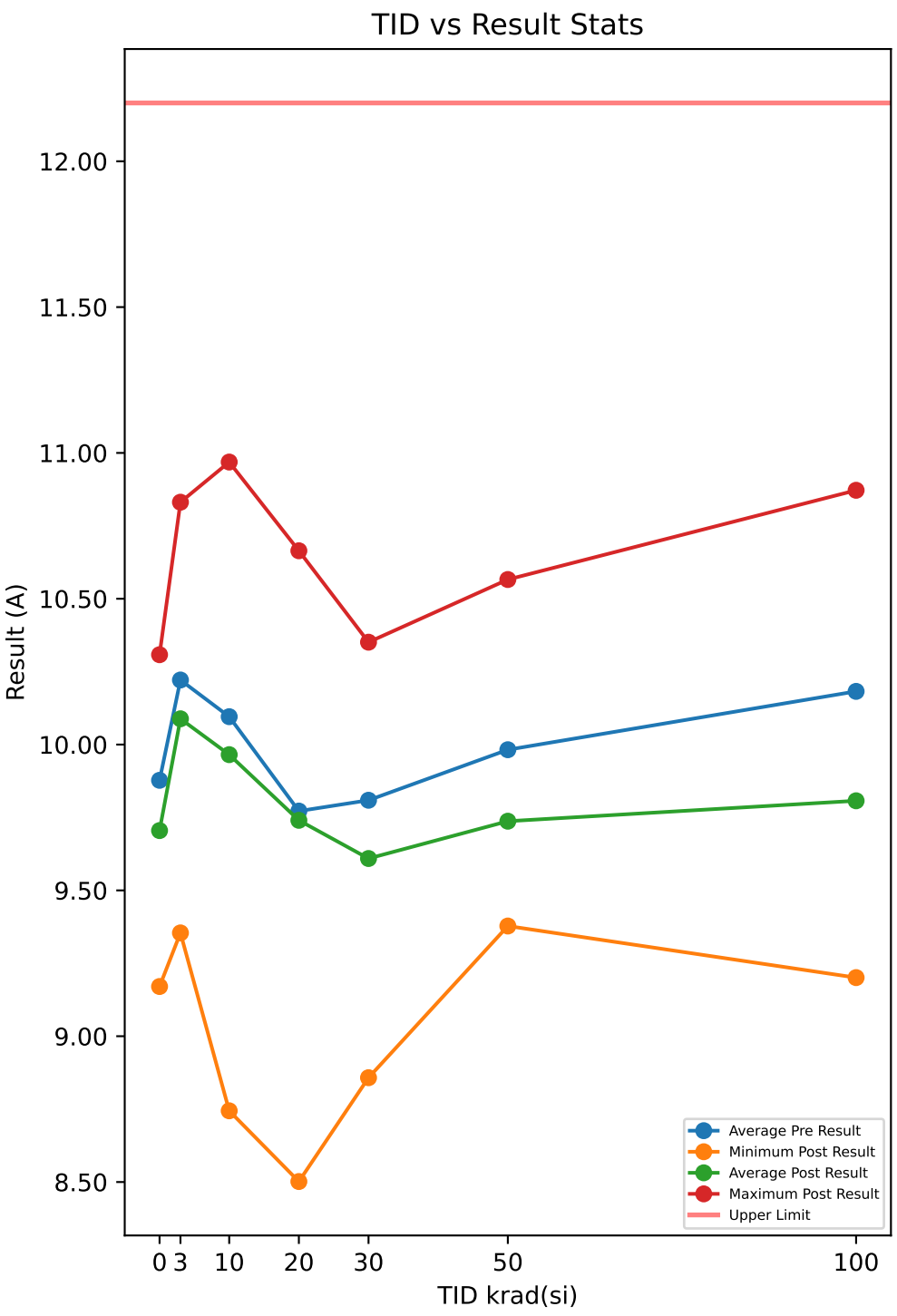
Test Results (Upper Limit = 48.0 (mohm))

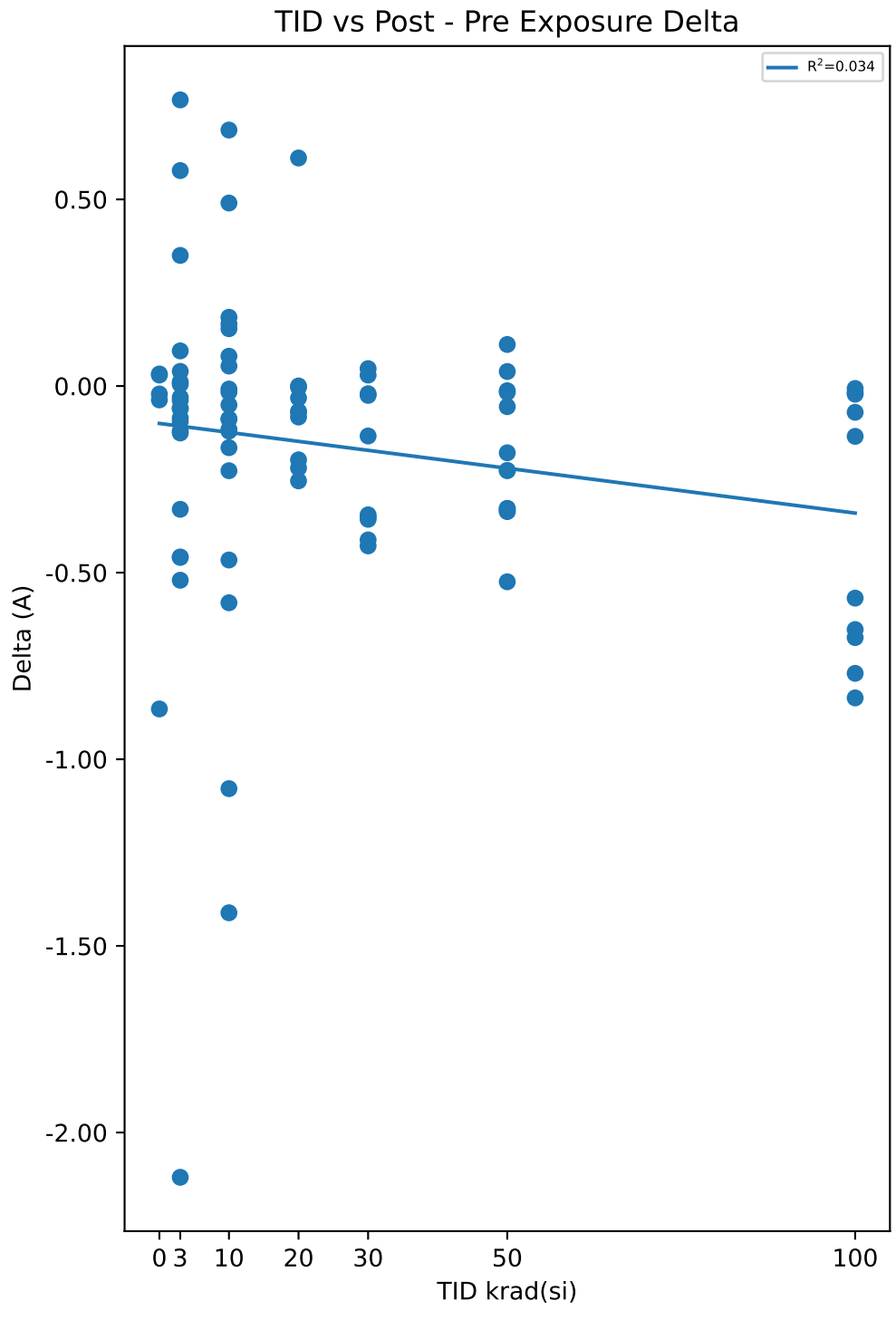
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	37.051	37.048	-0.0036
51	3	Biased	36.991	36.922	-0.0693
52	3	Biased	37.389	36.768	-0.6217
53	3	Biased	37.144	36.949	-0.1954
54	3	Biased	36.973	37.014	0.0403
55	3	Unbiased	37.233	36.525	-0.7089
56	3	Unbiased	37.263	36.657	-0.606
57	3	Unbiased	37.185	36.635	-0.5499
58	3	Unbiased	37.002	36.332	-0.6693
59	3	Unbiased	37.012	36.84	-0.172
60	10	Biased	36.781	36.459	-0.3229
61	10	Biased	37.107	37.033	-0.0739
62	10	Biased	37.06	36.646	-0.4136
63	10	Biased	37.03	37.086	0.0562
64	10	Biased	37.001	36.869	-0.1316
65	10	Unbiased	37.114	37.092	-0.0222
66	10	Unbiased	37.053	37.011	-0.0429
67	10	Unbiased	37.156	36.792	-0.3639
68	10	Unbiased	37.083	36.963	-0.1192
69	10	Unbiased	37.444	36.931	-0.5135
100	20	Biased	36.886	37.306	0.4202
200	20	Biased	36.782	36.772	-0.0103
300	20	Biased	36.941	37.025	0.0834
400	20	Biased	36.983	37.022	0.0392
500	20	Biased	36.718	36.76	0.0412
600	20	Unbiased	37.15	37.189	0.0389
700	20	Unbiased	36.805	36.783	-0.0212
800	20	Unbiased	36.904	36.918	0.0137
900	20	Unbiased	37.284	37.319	0.0356
1000	20	Unbiased	36.901	36.88	-0.0202
1100	30	Biased	37.004	37.097	0.0926
1200	30	Biased	37.338	37.481	0.1433
1300	30	Biased	37.263	37.419	0.1558
1400	30	Biased	37.247	37.394	0.1471
1500	30	Biased	37.096	37.22	0.1233
1600	30	Unbiased	37.414	37.488	0.0735
1700	30	Unbiased	37.014	37.09	0.0767
1800	30	Unbiased	37.247	37.338	0.0909
1900	30	Unbiased	37.254	37.296	0.042
2000	30	Unbiased	37.28	37.345	0.0646
2100	50	Biased-84Hr-Anneal	37.258	37.474	0.2162
2200	50	Biased-84Hr-Anneal	37.13	37.616	0.4863
2300	50	Biased-84Hr-Anneal	37.291	37.313	0.0224
2400	50	Biased-84Hr-Anneal	37.048	37.31	0.2617
2500	50	Biased-84Hr-Anneal	36.707	36.997	0.2907
2600	50	Unbiased	37.395	37.636	0.2411
2700	50	Unbiased	37.191	37.431	0.2393
2800	50	Unbiased	37.26	37.536	0.276
2900	50	Unbiased	36.994	37.236	0.2421
3000	50	Unbiased	36.995	37.198	0.2032
4000	100	Biased-168Hr-Anneal	36.221	37.057	0.8368
4100	100	Biased-168Hr-Anneal	36.519	37.331	0.8121
4200	100	Biased-168Hr-Anneal	36.324	37.151	0.8268
4300	100	Biased-168Hr-Anneal	36.625	37.503	0.8782
4400	100	Biased-168Hr-Anneal	36.653	37.521	0.8674
4500	100	Unbiased-168Hr-Anneal	36.696	37.456	0.7598
4600	100	Unbiased-168Hr-Anneal	36.333	37.169	0.8364
4700	100	Unbiased-168Hr-Anneal	36.522	37.376	0.8542
4800	100	Unbiased-168Hr-Anneal	36.658	37.467	0.809
4900	100	Unbiased-168Hr-Anneal	36.681	37.452	0.7703
9300	0	CORRELATION	37.231	36.764	-0.4673
9400	0	CORRELATION	36.793	36.647	-0.1457
9500	0	CORRELATION	36.934	36.782	-0.152
9600	0	CORRELATION	37.274	37.16	-0.1136
9700	0	CORRELATION	37.055	36.928	-0.1275

Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	36.793	37.057	37.274	0.20146	36.647	36.856	37.16	0.19693	-0.4673	-0.20122	-0.1136	0.14951
3	36.973	37.124	37.389	0.14101	36.332	36.769	37.048	0.23072	-0.7089	-0.35558	0.0403	0.3012
10	36.781	37.083	37.444	0.16308	36.459	36.888	37.092	0.2046	-0.5135	-0.19475	0.0562	0.19283
20	36.718	36.935	37.284	0.17061	36.76	36.997	37.319	0.2134	-0.0212	0.06205	0.4202	0.13004
30	37.004	37.216	37.414	0.13505	37.09	37.317	37.488	0.14285	0.042	0.10098	0.1558	0.039073
50	36.707	37.127	37.395	0.19873	36.997	37.375	37.636	0.20163	0.0224	0.2479	0.4863	0.11238
100	36.221	36.523	36.696	0.17255	37.057	37.348	37.521	0.16563	0.7598	0.8251	0.8782	0.038613

Device Test: 20.5 THRESHOLD|RISE/SW/4.5////@HS_CURR_LIM_6A_HTSSOP





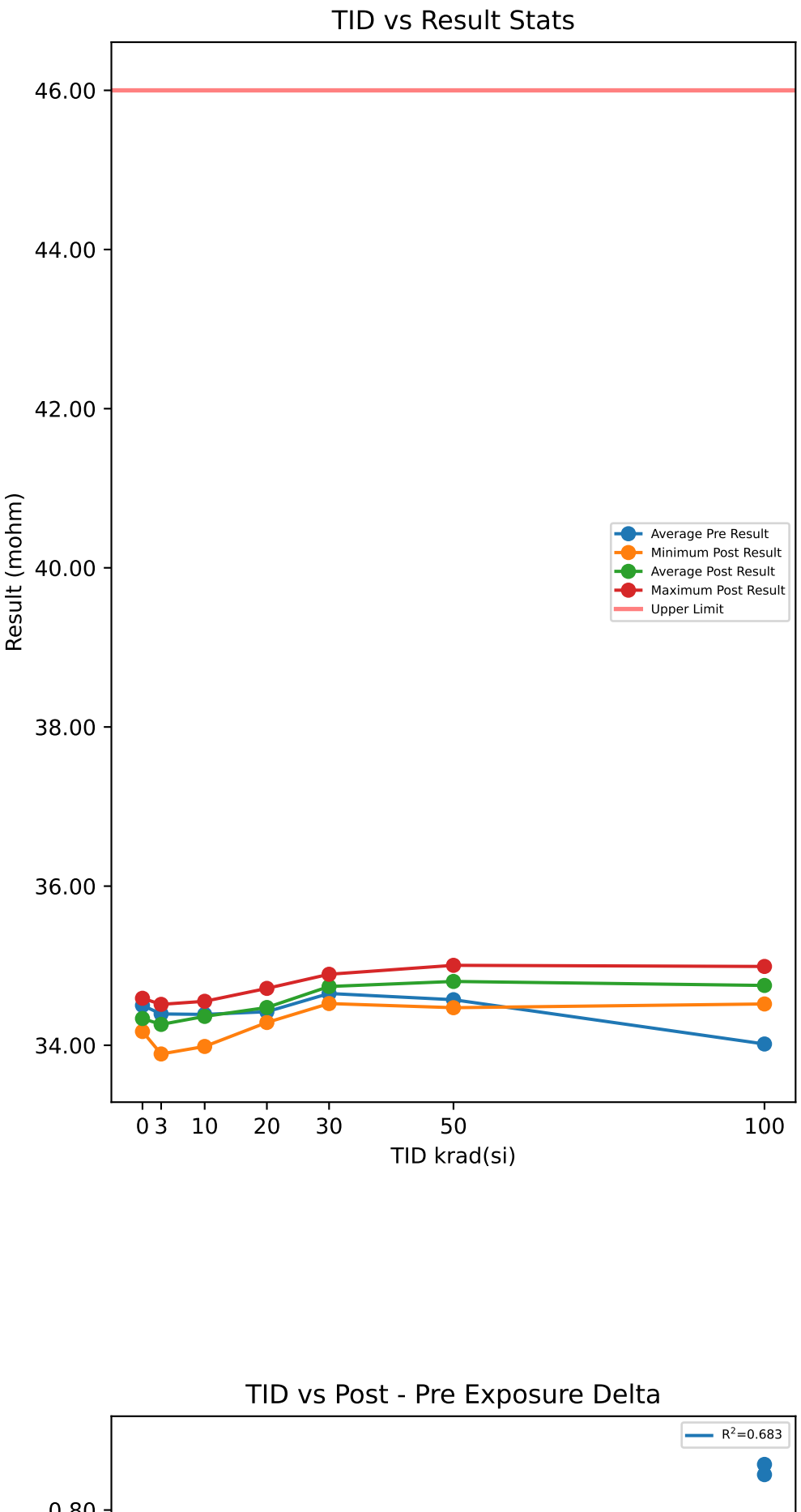
Test Results (Upper Limit = 12.2 (A))

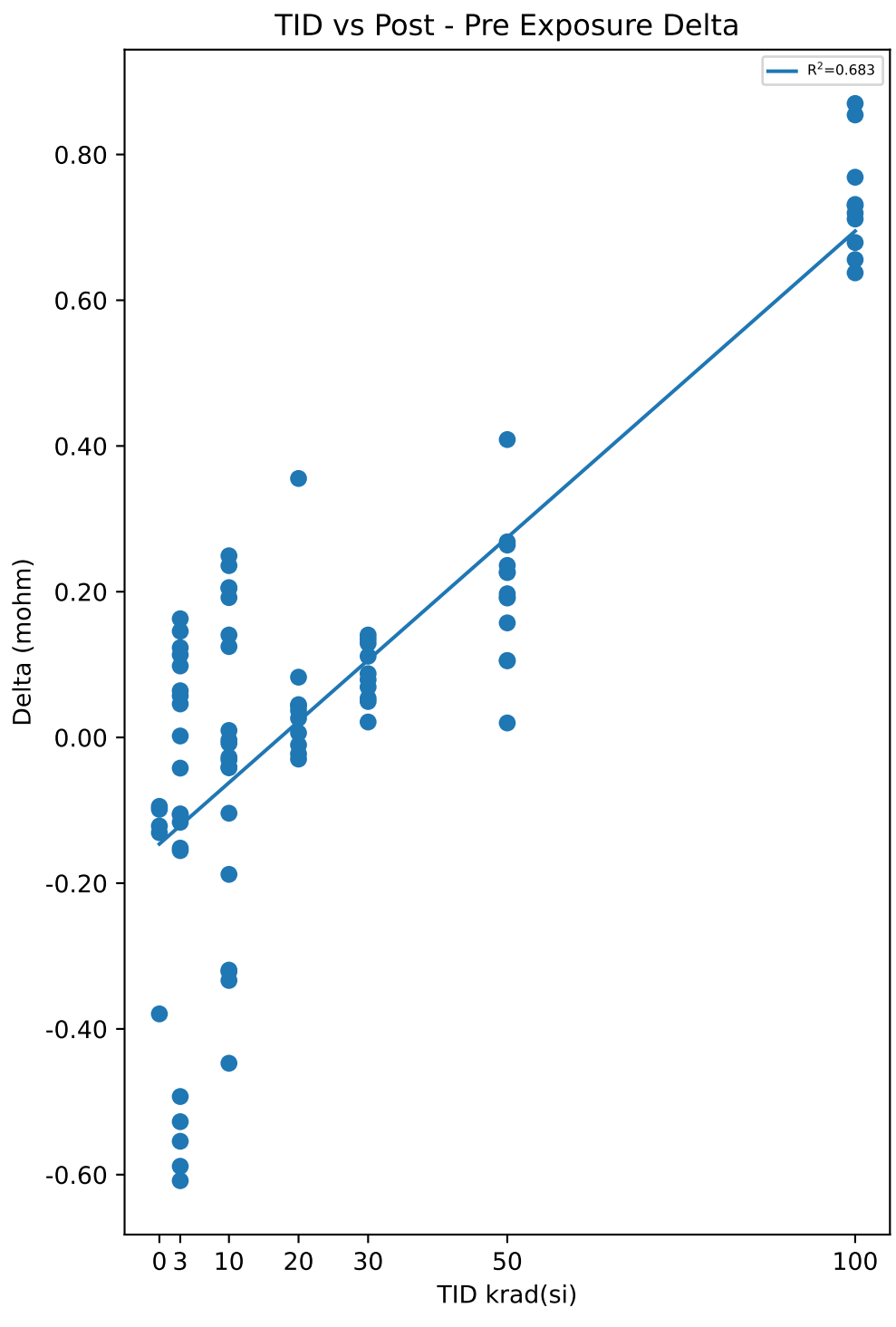
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	10.156	10.733	0.5772
51	3	Biased	9.1101	9.8767	0.7666
52	3	Biased	10.951	10.831	-0.1205
53	3	Biased	10.125	9.7945	-0.3303
54	3	Biased	10.242	9.7825	-0.4591
55	3	Unbiased	10.157	10.507	0.3499
56	3	Unbiased	10.737	10.831	0.0941
57	3	Unbiased	9.9251	9.467	-0.4581
58	3	Unbiased	11.474	9.3542	-2.12
59	3	Unbiased	10.227	9.7069	-0.5203
60	10	Biased	10.29	10.474	0.1842
61	10	Biased	10.54	9.4616	-1.0787
62	10	Biased	10.344	9.7633	-0.5807
63	10	Biased	10.039	10.193	0.1535
64	10	Biased	9.8502	9.9037	0.0535
65	10	Unbiased	9.9454	10.436	0.4903
66	10	Unbiased	10.283	10.969	0.6858
67	10	Unbiased	9.9381	10.104	0.1664
68	10	Unbiased	10.072	9.606	-0.4661
69	10	Unbiased	10.155	8.7442	-1.4113
100	20	Biased	9.2032	9.8141	0.6109
200	20	Biased	10.3	10.046	-0.2541
300	20	Biased	10.191	9.9709	-0.2196
400	20	Biased	9.5354	9.3376	-0.1978
500	20	Biased	10.198	10.115	-0.0831
600	20	Unbiased	9.865	9.7972	-0.0678
700	20	Unbiased	9.9188	9.9153	-0.0035
800	20	Unbiased	9.2412	9.2413	0.0001
900	20	Unbiased	10.697	10.665	-0.0321
1000	20	Unbiased	8.5713	8.5017	-0.0696
1100	30	Biased	9.4847	9.1333	-0.3514
1200	30	Biased	10.235	9.8895	-0.3451
1300	30	Biased	9.286	8.8577	-0.4283
1400	30	Biased	10.332	9.9194	-0.4123
1500	30	Biased	9.5186	9.1615	-0.3571
1600	30	Unbiased	9.9055	9.8849	-0.0206
1700	30	Unbiased	9.4212	9.3961	-0.0251
1800	30	Unbiased	10.485	10.351	-0.1339
1900	30	Unbiased	9.4109	9.4402	0.0293
2000	30	Unbiased	10.012	10.059	0.0466
2100	50	Biased-84Hr-Anneal	9.7263	9.3983	-0.328
2200	50	Biased-84Hr-Anneal	10.432	10.253	-0.1789
2300	50	Biased-84Hr-Anneal	9.7143	9.3778	-0.3365
2400	50	Biased-84Hr-Anneal	9.852	9.5174	-0.3346
2500	50	Biased-84Hr-Anneal	10.009	9.485	-0.5245
2600	50	Unbiased	10.325	10.437	0.1113
2700	50	Unbiased	9.9321	9.9153	-0.0168
2800	50	Unbiased	9.7704	9.8093	0.0389
2900	50	Unbiased	10.579	10.566	-0.0126
3000	50	Unbiased	9.4825	9.4272	-0.0553
4000	100	Biased-168Hr-Anneal	11.707	10.872	-0.8356
4100	100	Biased-168Hr-Anneal	10.127	9.4526	-0.674
4200	100	Biased-168Hr-Anneal	9.8207	9.2524	-0.5683
4300	100	Biased-168Hr-Anneal	9.9707	9.2009	-0.7698
4400	100	Biased-168Hr-Anneal	10.166	9.5133	-0.6525
4500	100	Unbiased-168Hr-Anneal	10.209	10.139	-0.0704
4600	100	Unbiased-168Hr-Anneal	9.7543	9.7477	-0.0066
4700	100	Unbiased-168Hr-Anneal	9.8845	9.867	-0.0175
4800	100	Unbiased-168Hr-Anneal	9.732	9.5971	-0.1349
4900	100	Unbiased-168Hr-Anneal	10.452	10.43	-0.0219
9300	0	CORRELATION	10.036	9.1704	-0.8652
9400	0	CORRELATION	9.3537	9.3165	-0.0372
9500	0	CORRELATION	10.072	10.051	-0.0213
9600	0	CORRELATION	9.647	9.6793	0.0323
9700	0	CORRELATION	10.279	10.308	0.0294

Test Statistics (A)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.3537	9.8774	10.279	0.37127	9.1704	9.705	10.308	0.47978	-0.8652	-0.1724	0.0323	0.38849
3	9.1101	10.31	11.474	0.63509	9.3542	10.088	10.831	0.57629	-2.12	-0.22205	0.7666	0.80749
10	9.8502	10.146	10.54	0.21653	8.7442	9.9654	10.969	0.62149	-1.4113	-0.18031	0.6858	0.68178
20	8.5713	9.7719	10.697	0.63446	8.5017	9.7403	10.665	0.58928	-0.2541	-0.03166	0.6109	0.24324
30	9.286	9.8091	10.485	0.43892	8.8577	9.6093	10.351	0.47948	-0.4283	-0.19979	0.0466	0.19618
50	9.4825	9.9823	10.579	0.35395	9.3778	9.8186	10.566	0.45518	-0.5245	-0.1637	0.1113	0.20798
100	9.732	10.182	11.707	0.58246	9.2009	9.8072	10.872	0.53445	-0.8356	-0.37515	-0.0066	0.35126

Device Test: 20.55 LEVEL|HIGHSIDE/SW/5/6///@R_HS_6A_25C_HTSSOP





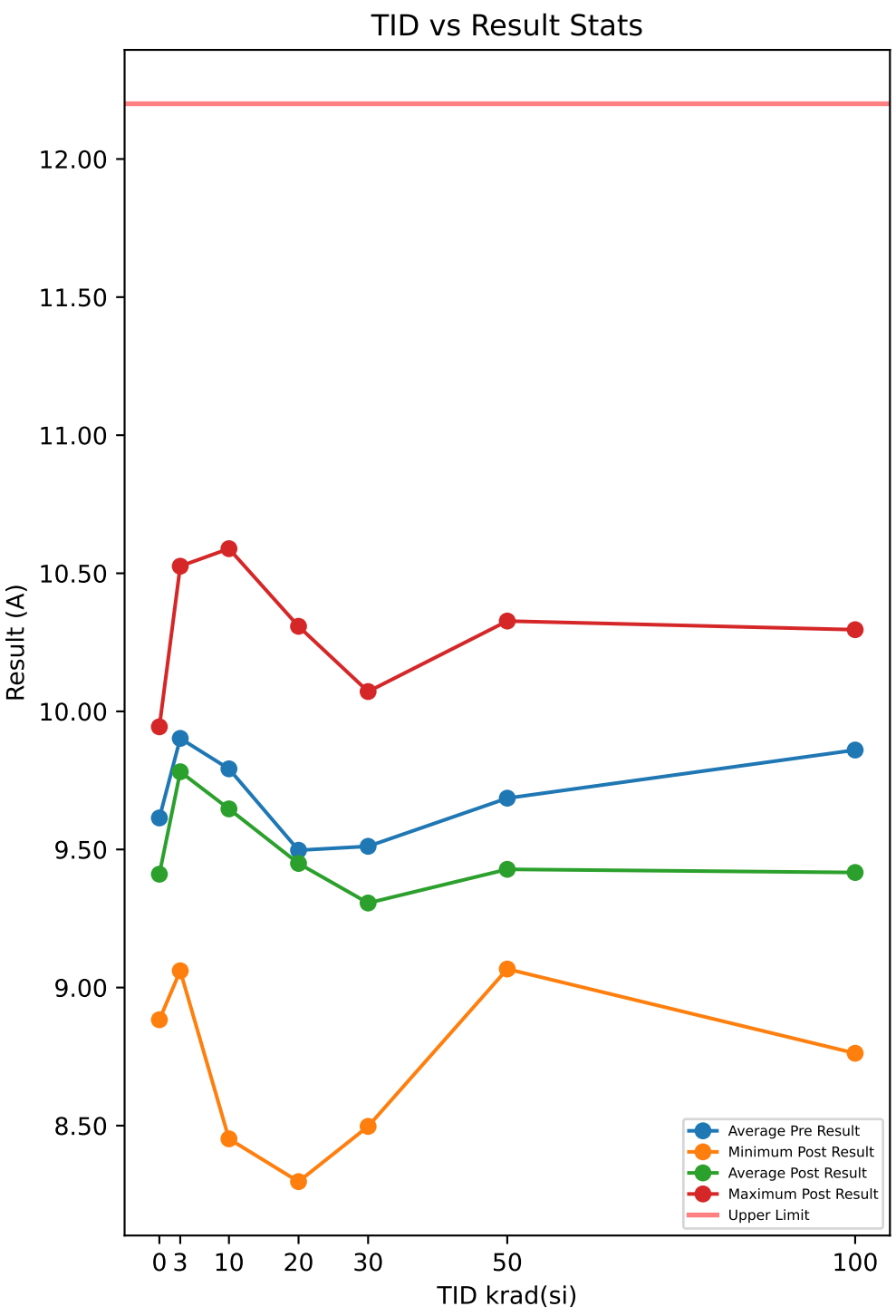
Test Results (Upper Limit = 46.0 (mohm))

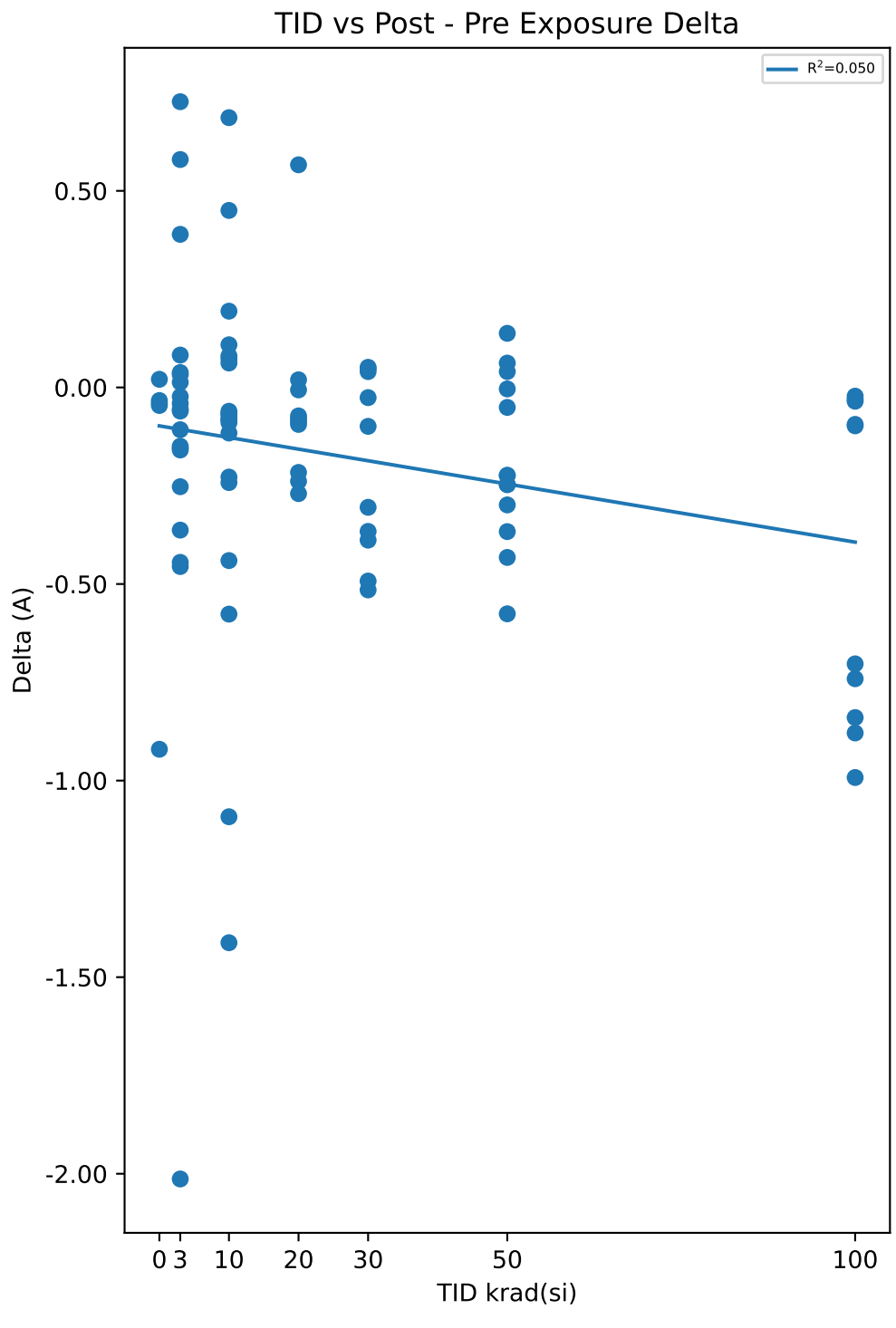
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	34.457	34.514	0.0571
51	3	Biased	34.493	34.387	-0.106
52	3	Biased	34.805	34.278	-0.5273
53	3	Biased	34.585	34.43	-0.1553
54	3	Biased	34.463	34.465	0.002
55	3	Unbiased	34.671	34.063	-0.6083
56	3	Unbiased	34.686	34.131	-0.5542
57	3	Unbiased	34.616	34.123	-0.4928
58	3	Unbiased	34.479	33.891	-0.5885
59	3	Unbiased	34.491	34.339	-0.1519
60	10	Biased	34.306	33.985	-0.3212
61	10	Biased	34.513	34.486	-0.0271
62	10	Biased	34.514	34.195	-0.3193
63	10	Biased	34.521	34.53	0.0096
64	10	Biased	34.482	34.294	-0.1879
65	10	Unbiased	34.556	34.553	-0.0035
66	10	Unbiased	34.517	34.509	-0.0081
67	10	Unbiased	34.595	34.261	-0.3335
68	10	Unbiased	34.532	34.428	-0.104
69	10	Unbiased	34.834	34.387	-0.4471
100	20	Biased	34.359	34.715	0.3554
200	20	Biased	34.297	34.286	-0.0103
300	20	Biased	34.424	34.507	0.0827
400	20	Biased	34.463	34.506	0.0432
500	20	Biased	34.259	34.304	0.045
600	20	Unbiased	34.599	34.636	0.0369
700	20	Unbiased	34.312	34.29	-0.0225
800	20	Unbiased	34.409	34.415	0.0062
900	20	Unbiased	34.687	34.713	0.0263
1000	20	Unbiased	34.404	34.374	-0.0297
1100	30	Biased	34.466	34.545	0.0793
1200	30	Biased	34.763	34.892	0.1292
1300	30	Biased	34.657	34.798	0.1406
1400	30	Biased	34.667	34.802	0.1351
1500	30	Biased	34.543	34.654	0.1115
1600	30	Unbiased	34.827	34.877	0.0493
1700	30	Unbiased	34.471	34.524	0.0538
1800	30	Unbiased	34.716	34.785	0.0692
1900	30	Unbiased	34.688	34.709	0.0212
2000	30	Unbiased	34.712	34.799	0.0875
2100	50	Biased-84Hr-Anneal	34.7	34.927	0.2265
2200	50	Biased-84Hr-Anneal	34.596	35.005	0.4088
2300	50	Biased-84Hr-Anneal	34.733	34.753	0.0199
2400	50	Biased-84Hr-Anneal	34.472	34.708	0.2361
2500	50	Biased-84Hr-Anneal	34.204	34.472	0.2684
2600	50	Unbiased	34.792	34.99	0.1972
2700	50	Unbiased	34.611	34.802	0.1914
2800	50	Unbiased	34.682	34.946	0.264
2900	50	Unbiased	34.471	34.663	0.1922
3000	50	Unbiased	34.464	34.621	0.1572
4000	100	Biased-168Hr-Anneal	33.788	34.519	0.7314
4100	100	Biased-168Hr-Anneal	34.01	34.729	0.7196
4200	100	Biased-168Hr-Anneal	33.846	34.7	0.8543
4300	100	Biased-168Hr-Anneal	34.086	34.855	0.7688
4400	100	Biased-168Hr-Anneal	34.12	34.99	0.87
4500	100	Unbiased-168Hr-Anneal	34.155	34.792	0.6376
4600	100	Unbiased-168Hr-Anneal	33.818	34.529	0.7115
4700	100	Unbiased-168Hr-Anneal	34.041	34.771	0.7301
4800	100	Unbiased-168Hr-Anneal	34.116	34.795	0.6792
4900	100	Unbiased-168Hr-Anneal	34.182	34.837	0.6557
9300	0	CORRELATION	34.64	34.261	-0.3794
9400	0	CORRELATION	34.294	34.173	-0.1215
9500	0	CORRELATION	34.411	34.28	-0.1307
9600	0	CORRELATION	34.685	34.591	-0.0946
9700	0	CORRELATION	34.475	34.376	-0.0986

Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	34.294	34.501	34.685	0.1619	34.173	34.336	34.591	0.1595	-0.3794	-0.16496	-0.0946	0.12083
3	34.457	34.575	34.805	0.11824	33.891	34.262	34.514	0.20237	-0.6083	-0.31252	0.0571	0.26445
10	34.306	34.537	34.834	0.12899	33.985	34.363	34.553	0.17994	-0.4471	-0.17421	0.0096	0.16989
20	34.259	34.421	34.687	0.13411	34.286	34.475	34.715	0.16829	-0.0297	0.05332	0.3554	0.11165
30	34.466	34.651	34.827	0.12103	34.524	34.739	34.892	0.12798	0.0212	0.08767	0.1406	0.040542
50	34.204	34.573	34.792	0.17405	34.472	34.789	35.005	0.17726	0.0199	0.21617	0.4088	0.097851
100	33.788	34.016	34.182	0.14673	34.519	34.752	34.99	0.14368	0.6376	0.73582	0.87	0.076962

Device Test: 20.56 THRESHOLD|RISE/SW/5////@HS_CURR_LIM_6A_HTSSOP





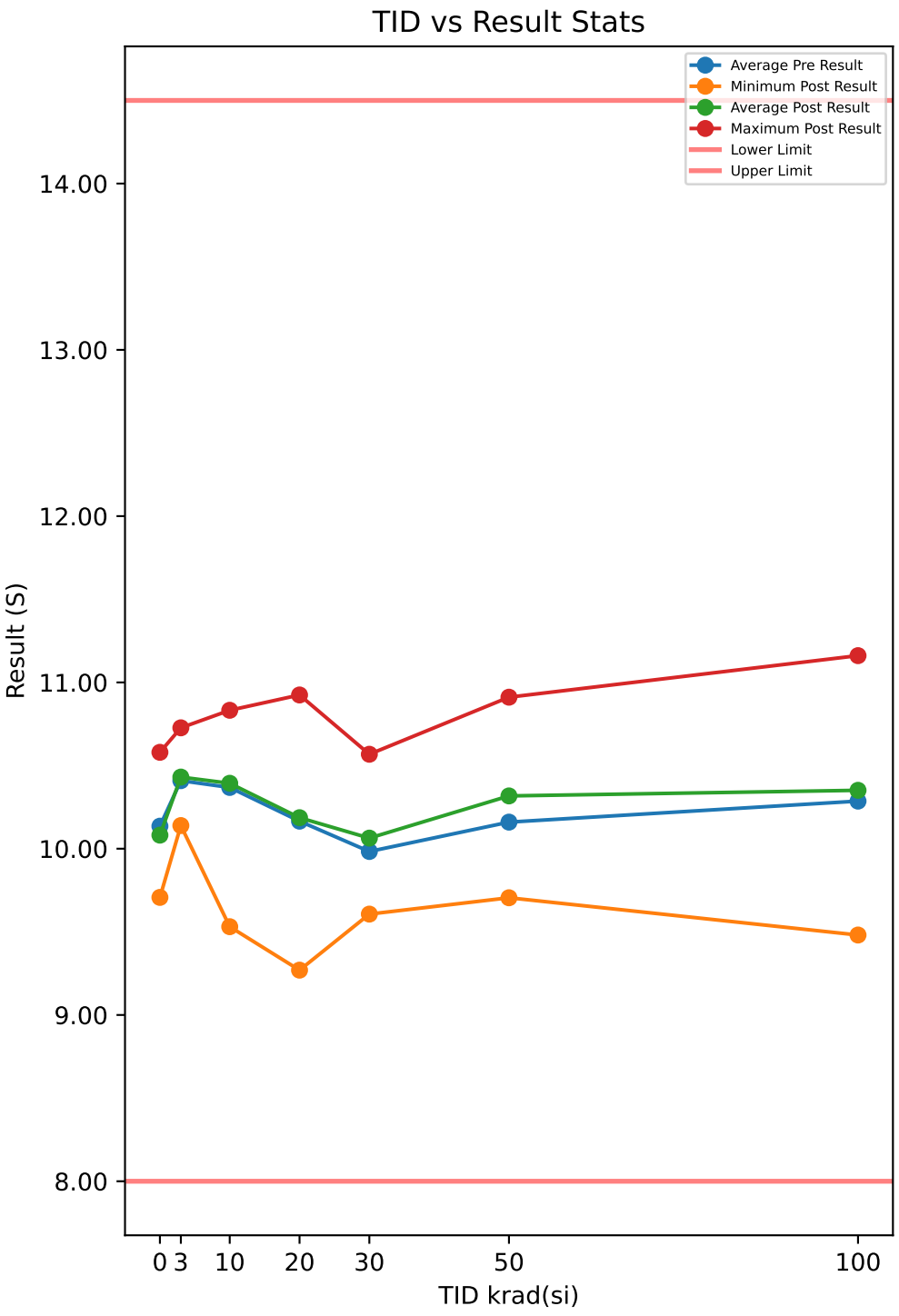
Test Results (Upper Limit = 12.2 (A))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	9.8613	10.441	0.5797
51	3	Biased	8.8142	9.541	0.7268
52	3	Biased	10.607	10.453	-0.1541
53	3	Biased	9.7538	9.5013	-0.2525
54	3	Biased	9.8582	9.4953	-0.3629
55	3	Unbiased	9.7883	10.178	0.3894
56	3	Unbiased	10.512	10.526	0.0131
57	3	Unbiased	9.6014	9.1459	-0.4555
58	3	Unbiased	11.074	9.0607	-2.0133
59	3	Unbiased	9.9165	9.4716	-0.4449
60	10	Biased	10.037	10.099	0.0621
61	10	Biased	10.25	9.1584	-1.092
62	10	Biased	10.032	9.4555	-0.5766
63	10	Biased	9.7006	9.8946	0.194
64	10	Biased	9.5703	9.6506	0.0803
65	10	Unbiased	9.6905	10.141	0.4502
66	10	Unbiased	9.9029	10.589	0.6862
67	10	Unbiased	9.608	9.7165	0.1085
68	10	Unbiased	9.7522	9.3118	-0.4404
69	10	Unbiased	9.8646	8.4522	-1.4124
100	20	Biased	8.9279	9.4942	0.5663
200	20	Biased	9.9775	9.7075	-0.27
300	20	Biased	9.9379	9.6994	-0.2385
400	20	Biased	9.2918	9.0756	-0.2162
500	20	Biased	9.8639	9.7699	-0.094
600	20	Unbiased	9.6018	9.5226	-0.0792
700	20	Unbiased	9.6386	9.6324	-0.0062
800	20	Unbiased	8.9676	8.987	0.0194
900	20	Unbiased	10.395	10.308	-0.0872
1000	20	Unbiased	8.3697	8.2973	-0.0724
1100	30	Biased	9.2467	8.8805	-0.3662
1200	30	Biased	9.8738	9.5689	-0.3049
1300	30	Biased	8.9898	8.4973	-0.4925
1400	30	Biased	9.9814	9.4664	-0.515
1500	30	Biased	9.2201	8.8317	-0.3884
1600	30	Unbiased	9.5832	9.6313	0.0481
1700	30	Unbiased	9.2478	9.2219	-0.0259
1800	30	Unbiased	10.171	10.072	-0.099
1900	30	Unbiased	9.1065	9.1468	0.0403
2000	30	Unbiased	9.6932	9.7444	0.0512
2100	50	Biased-84Hr-Anneal	9.3795	9.1558	-0.2237
2200	50	Biased-84Hr-Anneal	10.153	9.8543	-0.2988
2300	50	Biased-84Hr-Anneal	9.4338	9.0671	-0.3667
2400	50	Biased-84Hr-Anneal	9.5939	9.1615	-0.4324
2500	50	Biased-84Hr-Anneal	9.7423	9.1665	-0.5758
2600	50	Unbiased	10.007	10.145	0.1376
2700	50	Unbiased	9.542	9.6039	0.0619
2800	50	Unbiased	9.5049	9.5453	0.0404
2900	50	Unbiased	10.331	10.327	-0.0038
3000	50	Unbiased	9.1695	9.1187	-0.0508
4000	100	Biased-168Hr-Anneal	11.288	10.296	-0.9922
4100	100	Biased-168Hr-Anneal	9.8699	9.0302	-0.8397
4200	100	Biased-168Hr-Anneal	9.5804	8.8395	-0.7409
4300	100	Biased-168Hr-Anneal	9.641	8.7621	-0.8789
4400	100	Biased-168Hr-Anneal	9.776	9.0729	-0.7031
4500	100	Unbiased-168Hr-Anneal	9.8928	9.7988	-0.094
4600	100	Unbiased-168Hr-Anneal	9.4509	9.4205	-0.0304
4700	100	Unbiased-168Hr-Anneal	9.5825	9.5474	-0.0351
4800	100	Unbiased-168Hr-Anneal	9.4369	9.3392	-0.0977
4900	100	Unbiased-168Hr-Anneal	10.082	10.06	-0.0222
9300	0	CORRELATION	9.8037	8.8834	-0.9203
9400	0	CORRELATION	9.0873	9.0414	-0.0459
9500	0	CORRELATION	9.8851	9.8518	-0.0333
9600	0	CORRELATION	9.371	9.3314	-0.0396
9700	0	CORRELATION	9.9234	9.9441	0.0207

Test Statistics (A)

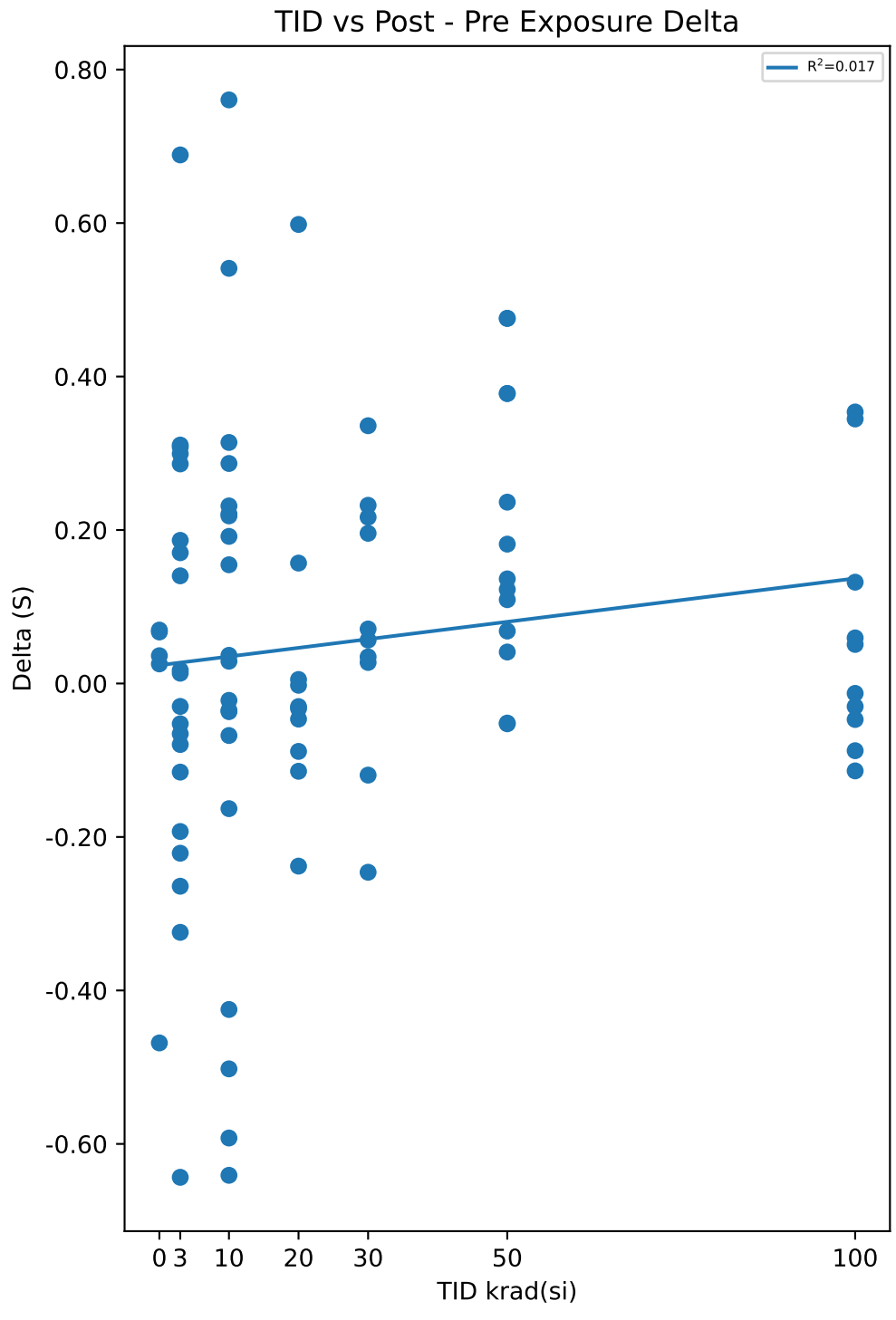
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.0873	9.6141	9.9234	0.36799	8.8834	9.4104	9.9441	0.47429	-0.9203	-0.20368	0.0207	0.40148
3	8.8142	9.9787	11.074	0.62335	9.0607	9.7813	10.526	0.5612	-2.0133	-0.19742	0.7268	0.76771
10	9.5703	9.8409	10.25	0.21724	8.4522	9.6469	10.589	0.59788	-1.4124	-0.19401	0.6862	0.67253
20	8.3697	9.4972	10.395	0.60688	8.2973	9.4494	10.308	0.54678	-0.27	-0.0478	0.5663	0.23635
30	8.9898	9.5113	10.171	0.40627	8.4973	9.3061	10.072	0.47977	-0.515	-0.20523	0.0512	0.23131
50	9.1695	9.6857	10.331	0.36918	9.0671	9.5145	10.327	0.46103	-0.5758	-0.17121	0.1376	0.24179
100	9.4369	9.86	11.288	0.54221	8.7621	9.4166	10.296	0.51472	-0.9922	-0.44342	-0.0222	0.41635

Device Test: 20.58 GMPS|STATIC/SW/5////@EA_GMPS_9A_HTSSOP



Test Results (Lower Limit = 8.0, Upper Limit = 14.5 (S))

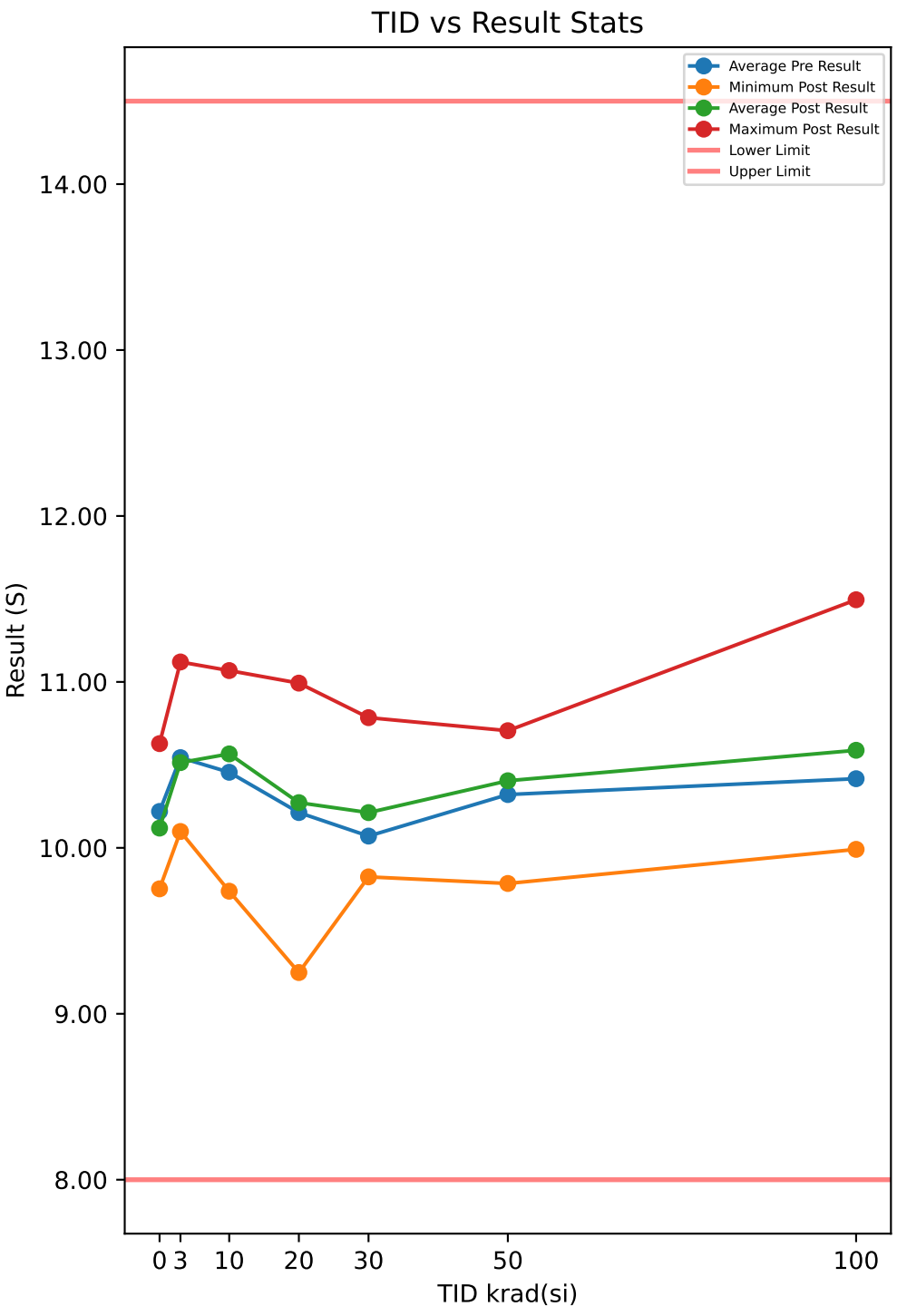
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	10.233	10.544	0.3107
51	3	Biased	9.9059	10.595	0.6888
52	3	Biased	10.818	10.703	-0.1155
53	3	Biased	10.367	10.287	-0.0795
54	3	Biased	10.427	10.206	-0.2212
55	3	Unbiased	10.428	10.727	0.2994
56	3	Unbiased	10.653	10.46	-0.1929
57	3	Unbiased	10.192	10.479	0.2861
58	3	Unbiased	10.783	10.139	-0.6435
59	3	Unbiased	9.9982	10.169	0.1704
60	10	Biased	10.265	10.484	0.2184
61	10	Biased	10.234	10.521	0.2867
62	10	Biased	10.982	10.341	-0.6409
63	10	Biased	10.035	9.998	-0.0367
64	10	Biased	10.317	10.631	0.3141
65	10	Unbiased	10.108	10.649	0.541
66	10	Unbiased	10.574	10.795	0.221
67	10	Unbiased	10.072	10.832	0.7605
68	10	Unbiased	9.9964	10.151	0.1547
69	10	Unbiased	10.123	9.5309	-0.5923
100	20	Biased	9.6316	10.23	0.5982
200	20	Biased	10.223	10.38	0.1569
300	20	Biased	9.7905	9.5525	-0.238
400	20	Biased	9.8192	9.7048	-0.1144
500	20	Biased	10.957	10.925	-0.0327
600	20	Unbiased	10.744	10.714	-0.0301
700	20	Unbiased	10.655	10.653	-0.0023
800	20	Unbiased	9.8312	9.7427	-0.0885
900	20	Unbiased	10.74	10.694	-0.0464
1000	20	Unbiased	9.2644	9.2696	0.0052
1100	30	Biased	9.726	9.6066	-0.1194
1200	30	Biased	10.161	10.497	0.3359
1300	30	Biased	10.004	9.7577	-0.246
1400	30	Biased	9.9884	10.221	0.2322
1500	30	Biased	10.085	10.156	0.071
1600	30	Unbiased	10.359	10.386	0.0274
1700	30	Unbiased	9.7476	9.9643	0.2167
1800	30	Unbiased	9.7293	9.764	0.0347
1900	30	Unbiased	9.5201	9.7158	0.1957
2000	30	Unbiased	10.511	10.568	0.0566
2100	50	Biased-84Hr-Anneal	10.01	10.388	0.3779
2200	50	Biased-84Hr-Anneal	10.368	10.491	0.1226
2300	50	Biased-84Hr-Anneal	9.6836	9.9199	0.2363
2400	50	Biased-84Hr-Anneal	10.543	10.584	0.041
2500	50	Biased-84Hr-Anneal	9.7565	9.7049	-0.0516
2600	50	Unbiased	9.8417	10.023	0.1816
2700	50	Unbiased	10.442	10.551	0.1092
2800	50	Unbiased	10.395	10.343	-0.0525
2900	50	Unbiased	10.843	10.911	0.0683
3000	50	Unbiased	9.7152	9.8515	0.1363
4000	100	Biased-168Hr-Anneal	11.275	11.161	-0.1139
4100	100	Biased-168Hr-Anneal	9.8611	10.215	0.3538
4200	100	Biased-168Hr-Anneal	10.337	10.307	-0.03
4300	100	Biased-168Hr-Anneal	10.015	10.36	0.3447
4400	100	Biased-168Hr-Anneal	10.684	10.743	0.0594
4500	100	Unbiased-168Hr-Anneal	10.024	10.156	0.132
4600	100	Unbiased-168Hr-Anneal	9.5684	9.4808	-0.0876
4700	100	Unbiased-168Hr-Anneal	10.337	10.388	0.0509
4800	100	Unbiased-168Hr-Anneal	10.274	10.227	-0.0469
4900	100	Unbiased-168Hr-Anneal	10.486	10.473	-0.0129
9300	0	CORRELATION	10.175	9.7071	-0.4684
9400	0	CORRELATION	9.8314	9.901	0.0696
9500	0	CORRELATION	10.151	10.187	0.0362
9600	0	CORRELATION	9.9655	10.033	0.0671
9700	0	CORRELATION	10.554	10.58	0.0255

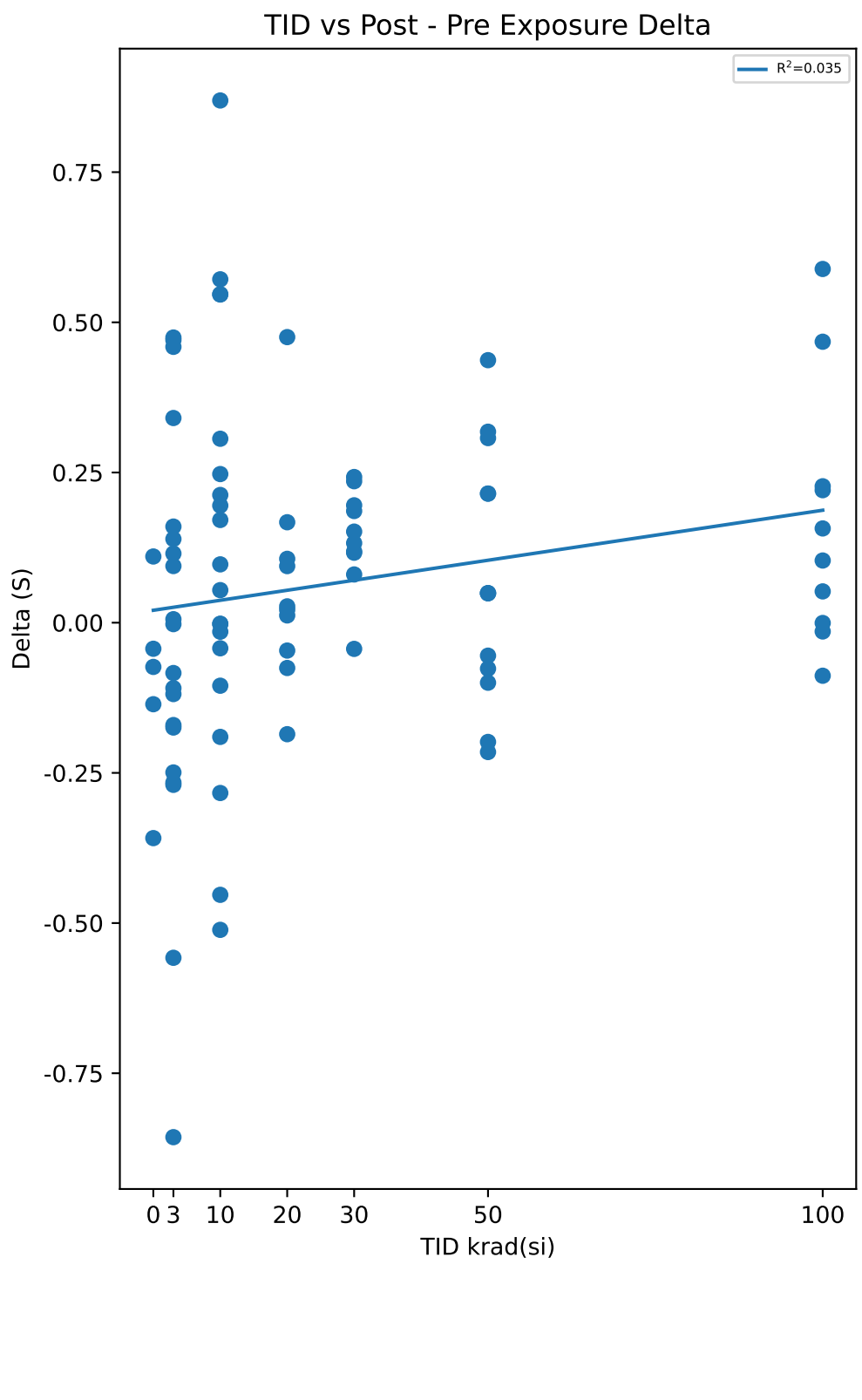


Test Statistics (S)

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	9.8314	10.135	10.554	0.27315	9.7071	10.081	10.58	0.32954	-0.4684	-0.054	0.0696	0.23245
3	9.9059	10.38	10.818	0.30922	10.139	10.431	10.727	0.21846	-0.6435	0.05028	0.6888	0.37507
10	9.9964	10.271	10.982	0.30199	9.5309	10.393	10.832	0.40303	-0.6409	0.12265	0.7605	0.44533
20	9.2644	10.166	10.957	0.57771	9.2696	10.186	10.925	0.57813	-0.238	0.02079	0.5982	0.22604
30	9.5201	9.9832	10.511	0.30967	9.6066	10.064	10.568	0.35001	-0.246	0.08048	0.3359	0.17391
50	9.6836	10.16	10.843	0.40853	9.7049	10.277	10.911	0.38494	-0.0525	0.11691	0.3779	0.13006
100	9.5684	10.286	11.275	0.47365	9.4808	10.351	11.161	0.42914	-0.1139	0.06495	0.3538	0.16642

Device Test: 20.7 GMPS|STATIC/SW/4.5////@EA_GMPS_9A_HTSSOP





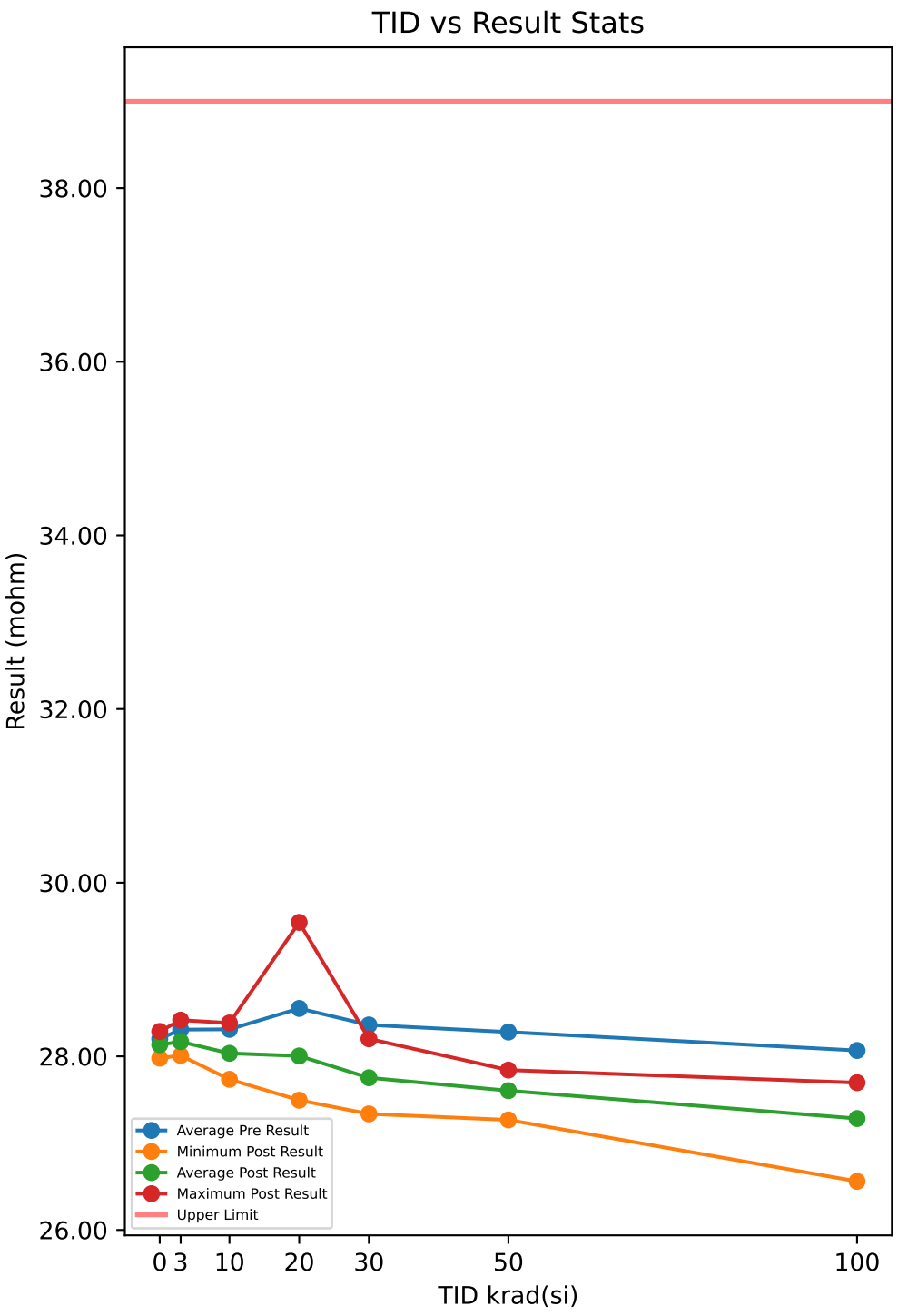
Test Results (Lower Limit = 8.0, Upper Limit = 14.5 (S))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	10.394	10.868	0.4747
51	3	Biased	10.107	10.447	0.3407
52	3	Biased	10.929	10.663	-0.266
53	3	Biased	10.465	10.347	-0.1188
54	3	Biased	10.955	10.098	-0.8564
55	3	Unbiased	10.661	11.12	0.4592
56	3	Unbiased	10.796	10.547	-0.2493
57	3	Unbiased	10.179	10.649	0.4704
58	3	Unbiased	10.746	10.188	-0.5578
59	3	Unbiased	10.049	10.209	0.16
60	10	Biased	10.19	10.762	0.5716
61	10	Biased	10.144	10.691	0.5467
62	10	Biased	11.021	10.737	-0.2835
63	10	Biased	10.203	10.257	0.0542
64	10	Biased	10.452	10.758	0.3062
65	10	Unbiased	9.8134	10.683	0.8693
66	10	Unbiased	10.856	11.068	0.2126
67	10	Unbiased	10.23	10.776	0.5463
68	10	Unbiased	9.9958	10.191	0.195
69	10	Unbiased	10.25	9.7387	-0.5113
100	20	Biased	9.7057	10.181	0.4754
200	20	Biased	10.601	10.768	0.1672
300	20	Biased	9.6086	9.5332	-0.0754
400	20	Biased	9.7242	9.8184	0.0942
500	20	Biased	10.981	10.993	0.0121
600	20	Unbiased	10.849	10.871	0.0215
700	20	Unbiased	10.678	10.784	0.1063
800	20	Unbiased	9.8187	9.7723	-0.0464
900	20	Unbiased	10.727	10.754	0.0272
1000	20	Unbiased	9.4341	9.2485	-0.1856
1100	30	Biased	9.8686	9.825	-0.0436
1200	30	Biased	10.385	10.571	0.1859
1300	30	Biased	9.8094	9.9259	0.1165
1400	30	Biased	10.297	10.54	0.2425
1500	30	Biased	10.039	10.275	0.2355
1600	30	Unbiased	10.349	10.544	0.1954
1700	30	Unbiased	9.7141	9.8327	0.1186
1800	30	Unbiased	9.7614	9.913	0.1516
1900	30	Unbiased	9.7811	9.9136	0.1325
2000	30	Unbiased	10.704	10.785	0.0803
2100	50	Biased-84Hr-Anneal	10.35	10.399	0.0491
2200	50	Biased-84Hr-Anneal	10.254	10.691	0.437
2300	50	Biased-84Hr-Anneal	10.158	9.9593	-0.1985
2400	50	Biased-84Hr-Anneal	10.761	10.706	-0.0549
2500	50	Biased-84Hr-Anneal	9.8618	9.7853	-0.0765
2600	50	Unbiased	10.26	10.16	-0.0999
2700	50	Unbiased	10.366	10.673	0.3073
2800	50	Unbiased	10.335	10.653	0.3179
2900	50	Unbiased	10.858	10.643	-0.2153
3000	50	Unbiased	10.009	10.059	0.0491
4000	100	Biased-168Hr-Anneal	11.338	11.495	0.1569
4100	100	Biased-168Hr-Anneal	10.049	10.517	0.4677
4200	100	Biased-168Hr-Anneal	10.32	10.423	0.1035
4300	100	Biased-168Hr-Anneal	10.282	10.509	0.2271
4400	100	Biased-168Hr-Anneal	10.582	11.171	0.5888
4500	100	Unbiased-168Hr-Anneal	10.314	10.366	0.0521
4600	100	Unbiased-168Hr-Anneal	9.7703	9.9909	0.2206
4700	100	Unbiased-168Hr-Anneal	10.589	10.589	-0.0005
4800	100	Unbiased-168Hr-Anneal	10.328	10.313	-0.0146
4900	100	Unbiased-168Hr-Anneal	10.594	10.506	-0.0883
9300	0	CORRELATION	10.112	9.753	-0.3586
9400	0	CORRELATION	10.101	10.028	-0.0736
9500	0	CORRELATION	10.263	10.127	-0.1357
9600	0	CORRELATION	10.103	10.06	-0.0434
9700	0	CORRELATION	10.518	10.628	0.1102

Test Statistics (S)

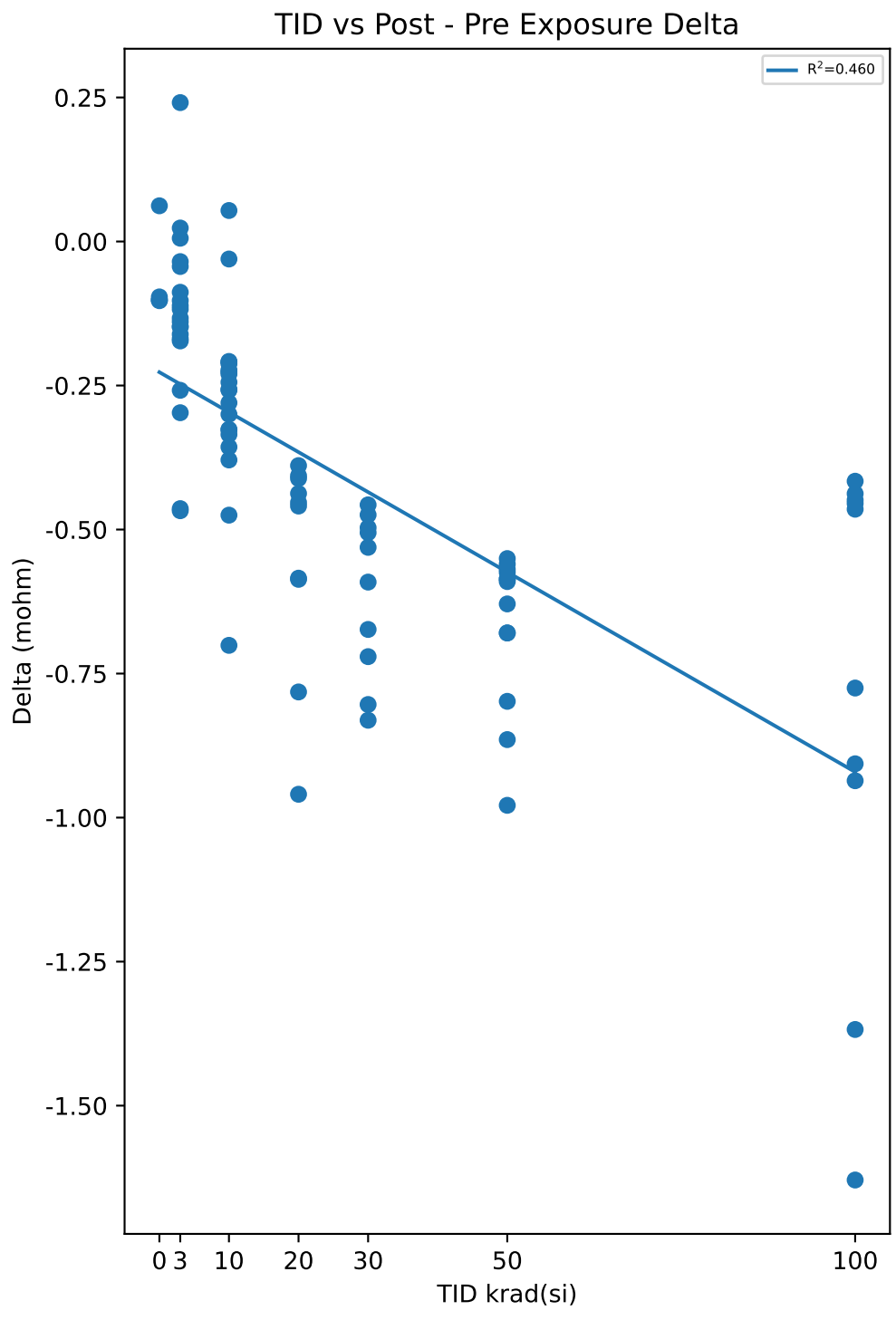
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	10.101	10.219	10.518	0.18032	9.753	10.119	10.628	0.31822	-0.3586	-0.10022	0.1102	0.17046
3	10.049	10.528	10.955	0.33859	10.098	10.514	11.12	0.32302	-0.8564	-0.01433	0.4747	0.47007
10	9.8134	10.315	11.021	0.36987	9.7387	10.566	11.068	0.38743	-0.5113	0.25071	0.8693	0.41805
20	9.4341	10.213	10.981	0.60078	9.2485	10.272	10.993	0.63908	-0.1856	0.05965	0.4754	0.17707
30	9.7141	10.071	10.704	0.34083	9.825	10.212	10.785	0.36999	-0.0436	0.14152	0.2425	0.083834
50	9.8618	10.321	10.858	0.30331	9.7853	10.373	10.706	0.35195	-0.2153	0.05153	0.437	0.22836
100	9.7703	10.417	11.338	0.41322	9.9909	10.588	11.495	0.43322	-0.0883	0.17133	0.5888	0.21556

Device Test: 21.26 LEVEL|LOWSIDE/SW/4.5/6///@R_LS_6A_4V5_25C_HTSSOP



Test Results (Upper Limit = 39.0 (mohm))

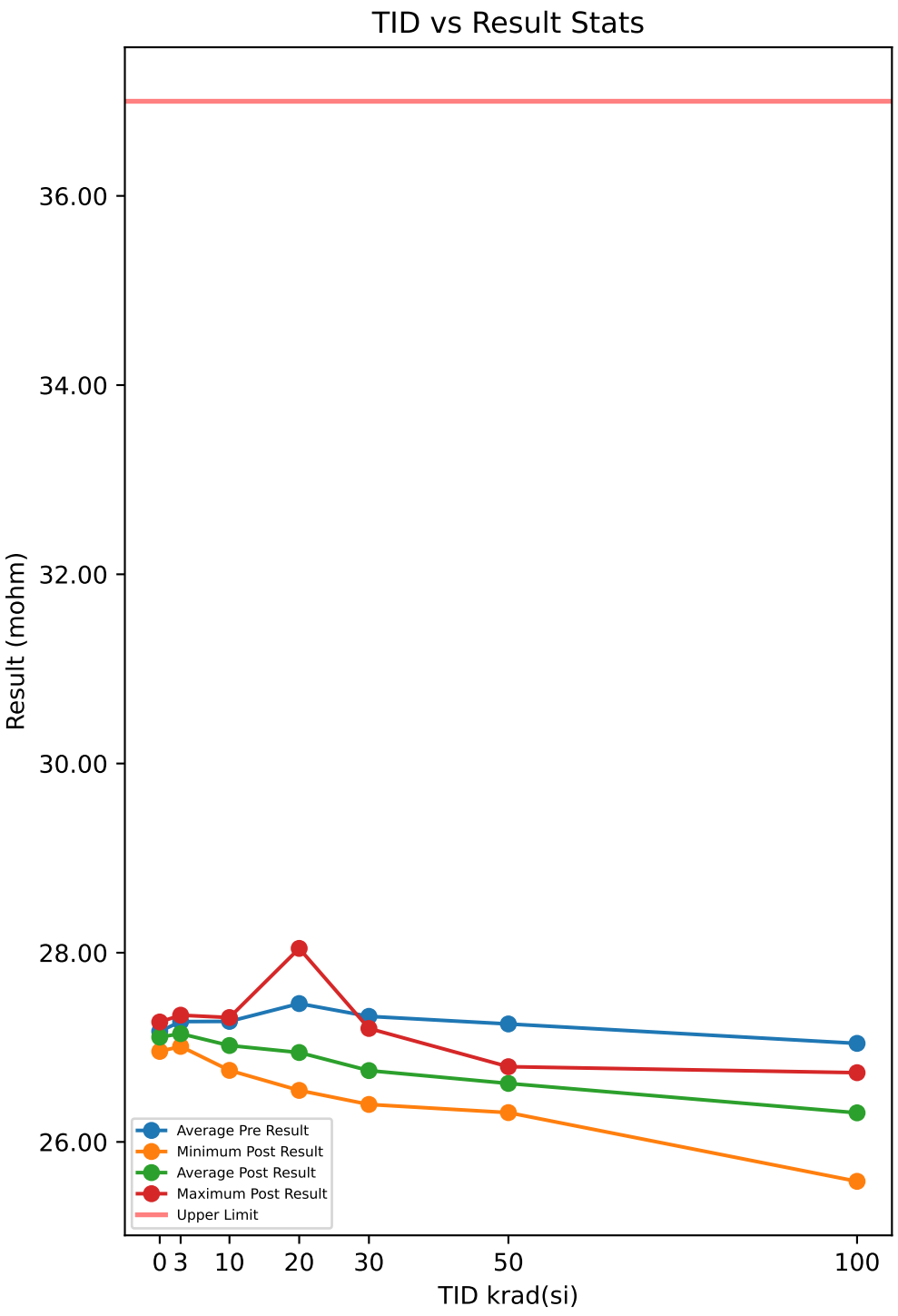
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	28.247	28.253	0.0057
51	3	Biased	28.467	28.17	-0.2972
52	3	Biased	28.2	28.223	0.0234
53	3	Biased	28.519	28.055	-0.4637
54	3	Biased	28.559	28.092	-0.4673
55	3	Unbiased	28.158	28.01	-0.1482
56	3	Unbiased	28.209	28.165	-0.0434
57	3	Unbiased	28.3	28.041	-0.2583
58	3	Unbiased	28.176	28.417	0.2411
59	3	Unbiased	28.294	28.259	-0.0349
60	10	Biased	28.21	27.735	-0.475
61	10	Biased	28.202	27.994	-0.2082
62	10	Biased	28.363	28.036	-0.327
63	10	Biased	28.567	27.866	-0.701
64	10	Biased	28.19	27.96	-0.23
65	10	Unbiased	28.358	27.979	-0.3792
66	10	Unbiased	28.419	28.063	-0.3567
67	10	Unbiased	28.414	28.384	-0.0304
68	10	Unbiased	28.377	28.119	-0.258
69	10	Unbiased	28.157	28.211	0.0538
100	20	Biased	28.394	27.612	-0.7819
200	20	Biased	28.55	27.966	-0.5844
300	20	Biased	28.454	27.494	-0.9595
400	20	Biased	28.272	27.686	-0.5864
500	20	Biased	28.452	27.999	-0.4529
600	20	Unbiased	30.002	29.543	-0.4592
700	20	Unbiased	28.703	28.292	-0.4114
800	20	Unbiased	28.173	27.784	-0.389
900	20	Unbiased	28.151	27.714	-0.4374
1000	20	Unbiased	28.363	27.957	-0.4065
1100	30	Biased	28.528	27.724	-0.8037
1200	30	Biased	28.221	27.548	-0.6734
1300	30	Biased	28.168	27.337	-0.831
1400	30	Biased	28.195	27.474	-0.7206
1500	30	Biased	28.311	27.72	-0.5912
1600	30	Unbiased	28.17	27.695	-0.4745
1700	30	Unbiased	28.518	28.012	-0.5054
1800	30	Unbiased	28.733	28.202	-0.5309
1900	30	Unbiased	28.401	27.904	-0.4968
2000	30	Unbiased	28.371	27.914	-0.4571
2100	50	Biased-84Hr-Anneal	28.235	27.649	-0.5858
2200	50	Biased-84Hr-Anneal	28.243	27.378	-0.8646
2300	50	Biased-84Hr-Anneal	28.307	27.509	-0.7982
2400	50	Biased-84Hr-Anneal	28.443	27.814	-0.6291
2500	50	Biased-84Hr-Anneal	28.246	27.268	-0.9787
2600	50	Unbiased	28.358	27.784	-0.5743
2700	50	Unbiased	28.432	27.842	-0.5903
2800	50	Unbiased	28.209	27.658	-0.5504
2900	50	Unbiased	28.165	27.605	-0.56
3000	50	Unbiased	28.162	27.593	-0.5691
4000	100	Biased-168Hr-Anneal	28.128	27.221	-0.9066
4100	100	Biased-168Hr-Anneal	28.017	26.649	-1.3678
4200	100	Biased-168Hr-Anneal	28.055	27.28	-0.7751
4300	100	Biased-168Hr-Anneal	28.189	26.56	-1.6291
4400	100	Biased-168Hr-Anneal	28.147	27.211	-0.936
4500	100	Unbiased-168Hr-Anneal	27.945	27.508	-0.4377
4600	100	Unbiased-168Hr-Anneal	28.057	27.602	-0.4546
4700	100	Unbiased-168Hr-Anneal	27.882	27.433	-0.4488
4800	100	Unbiased-168Hr-Anneal	28.161	27.697	-0.4647
4900	100	Unbiased-168Hr-Anneal	28.093	27.676	-0.4161
9300	0	CORRELATION	28.224	28.286	0.062
9400	0	CORRELATION	28.098	28.001	-0.0962
9500	0	CORRELATION	28.266	28.165	-0.1012
9600	0	CORRELATION	28.081	27.979	-0.1027
9700	0	CORRELATION	28.339	28.237	-0.1017

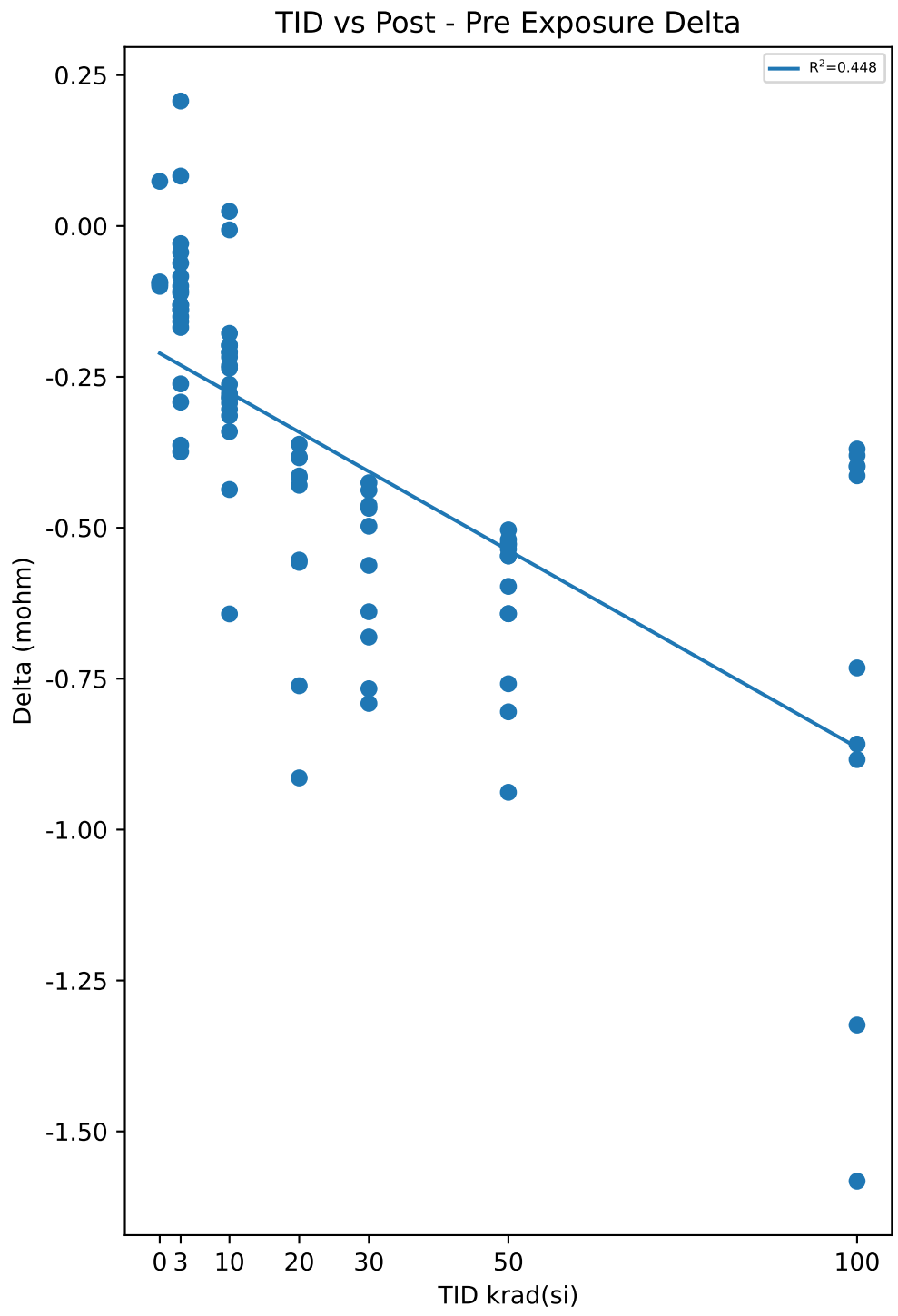


Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	28.081	28.202	28.339	0.11038	27.979	28.134	28.286	0.13825	-0.1027	-0.06796	0.062	0.072693
3	28.158	28.313	28.559	0.14828	28.01	28.169	28.417	0.12491	-0.4673	-0.14428	0.2411	0.22707
10	28.157	28.326	28.567	0.13148	27.735	28.035	28.384	0.17925	-0.701	-0.29117	0.0538	0.21443
20	28.151	28.552	30.002	0.53615	27.494	28.005	29.543	0.58696	-0.9595	-0.54686	-0.389	0.18855
30	28.168	28.362	28.733	0.1873	27.337	27.753	28.202	0.26152	-0.831	-0.60846	-0.4571	0.13932
50	28.162	28.28	28.443	0.10173	27.268	27.61	27.842	0.18576	-0.9787	-0.67005	-0.5504	0.15292
100	27.882	28.067	28.189	0.097955	26.56	27.284	27.697	0.39919	-1.6291	-0.78365	-0.4161	0.43093

Device Test: 21.29 LEVEL|LOWSIDE/SW/5/6///@R_LS_6A_25C_HTSSOP





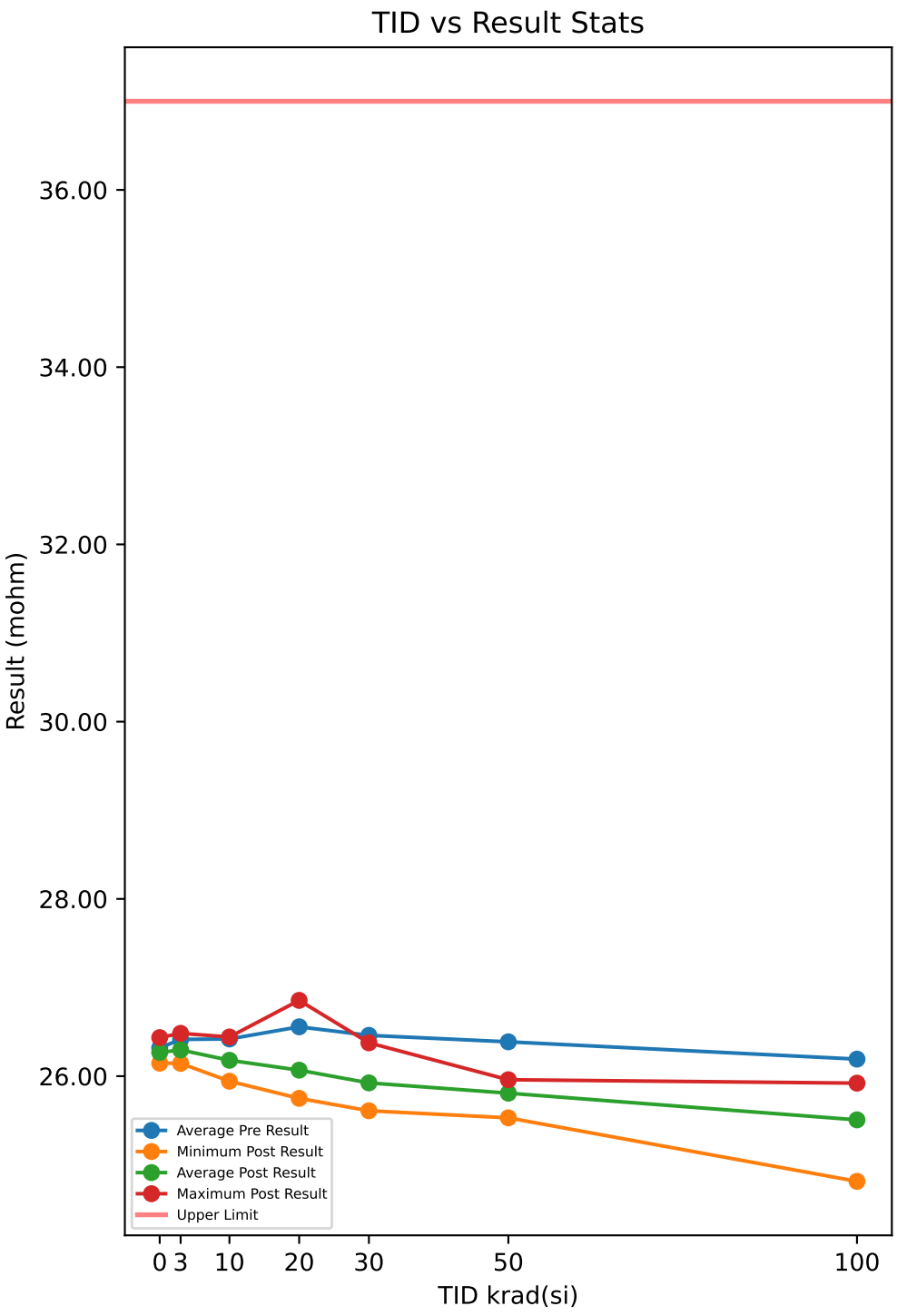
Test Results (Upper Limit = 37.0 (mohm))

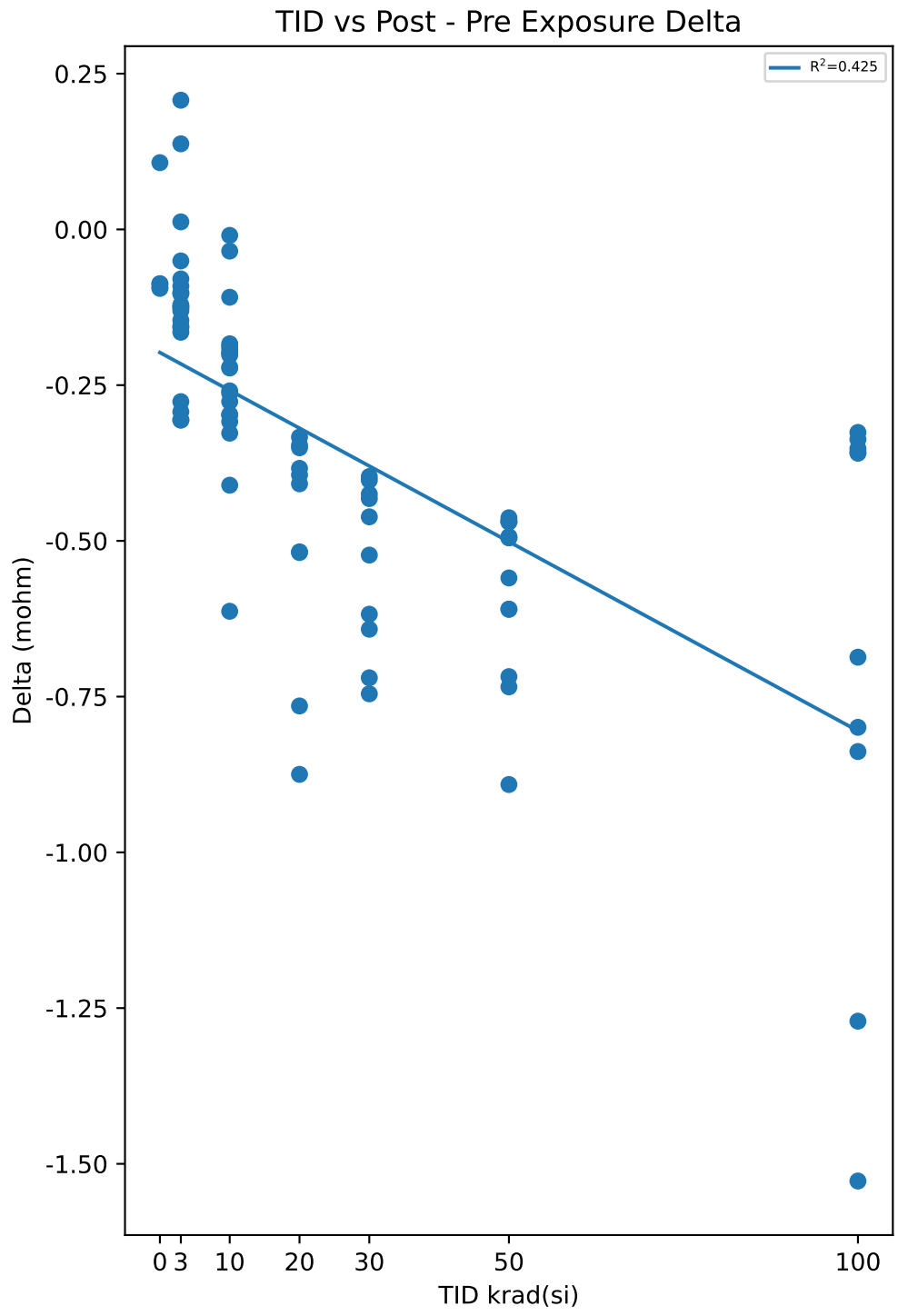
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	27.228	27.198	-0.0292
51	3	Biased	27.431	27.139	-0.2918
52	3	Biased	27.143	27.226	0.0827
53	3	Biased	27.43	27.055	-0.3743
54	3	Biased	27.439	27.076	-0.3632
55	3	Unbiased	27.148	27.01	-0.1385
56	3	Unbiased	27.191	27.147	-0.0438
57	3	Unbiased	27.287	27.026	-0.2616
58	3	Unbiased	27.133	27.34	0.207
59	3	Unbiased	27.288	27.226	-0.0616
60	10	Biased	27.193	26.756	-0.4366
61	10	Biased	27.206	26.988	-0.2173
62	10	Biased	27.291	27.006	-0.2854
63	10	Biased	27.513	26.87	-0.6427
64	10	Biased	27.152	26.974	-0.1779
65	10	Unbiased	27.331	26.99	-0.3407
66	10	Unbiased	27.342	27.048	-0.2934
67	10	Unbiased	27.321	27.315	-0.0064
68	10	Unbiased	27.358	27.081	-0.2776
69	10	Unbiased	27.138	27.162	0.0243
100	20	Biased	27.371	26.61	-0.7617
200	20	Biased	27.513	26.959	-0.5535
300	20	Biased	27.459	26.545	-0.9144
400	20	Biased	27.251	26.694	-0.5573
500	20	Biased	27.377	26.947	-0.4296
600	20	Unbiased	28.462	28.046	-0.4165
700	20	Unbiased	27.59	27.206	-0.384
800	20	Unbiased	27.157	26.795	-0.3616
900	20	Unbiased	27.147	26.733	-0.4142
1000	20	Unbiased	27.299	26.916	-0.3825
1100	30	Biased	27.484	26.717	-0.7666
1200	30	Biased	27.181	26.542	-0.6391
1300	30	Biased	27.187	26.396	-0.791
1400	30	Biased	27.168	26.486	-0.6811
1500	30	Biased	27.252	26.69	-0.5623
1600	30	Unbiased	27.129	26.691	-0.4377
1700	30	Unbiased	27.465	26.998	-0.4678
1800	30	Unbiased	27.697	27.2	-0.4974
1900	30	Unbiased	27.388	26.925	-0.4628
2000	30	Unbiased	27.321	26.896	-0.4254
2100	50	Biased-84Hr-Anneal	27.22	26.673	-0.5466
2200	50	Biased-84Hr-Anneal	27.225	26.42	-0.8049
2300	50	Biased-84Hr-Anneal	27.263	26.505	-0.7584
2400	50	Biased-84Hr-Anneal	27.376	26.779	-0.5971
2500	50	Biased-84Hr-Anneal	27.248	26.31	-0.9382
2600	50	Unbiased	27.299	26.773	-0.5261
2700	50	Unbiased	27.33	26.795	-0.5353
2800	50	Unbiased	27.17	26.666	-0.5035
2900	50	Unbiased	27.173	26.653	-0.5196
3000	50	Unbiased	27.165	26.637	-0.5284
4000	100	Biased-168Hr-Anneal	27.058	26.2	-0.8584
4100	100	Biased-168Hr-Anneal	26.994	25.67	-1.3237
4200	100	Biased-168Hr-Anneal	27.014	26.282	-0.7322
4300	100	Biased-168Hr-Anneal	27.166	25.583	-1.5824
4400	100	Biased-168Hr-Anneal	27.112	26.228	-0.884
4500	100	Unbiased-168Hr-Anneal	26.931	26.55	-0.3803
4600	100	Unbiased-168Hr-Anneal	27.037	26.638	-0.3989
4700	100	Unbiased-168Hr-Anneal	26.892	26.495	-0.3975
4800	100	Unbiased-168Hr-Anneal	27.146	26.732	-0.4138
4900	100	Unbiased-168Hr-Anneal	27.066	26.696	-0.3696
9300	0	CORRELATION	27.194	27.268	0.074
9400	0	CORRELATION	27.086	26.992	-0.0938
9500	0	CORRELATION	27.19	27.097	-0.0927
9600	0	CORRELATION	27.057	26.957	-0.1
9700	0	CORRELATION	27.321	27.224	-0.0968

Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	27.057	27.169	27.321	0.10441	26.957	27.107	27.268	0.13728	-0.1	-0.06186	0.074	0.076001
3	27.133	27.272	27.439	0.12404	27.01	27.144	27.34	0.10503	-0.3743	-0.12743	0.207	0.19398
10	27.138	27.284	27.513	0.11449	26.756	27.019	27.315	0.15194	-0.6427	-0.26537	0.0243	0.19426
20	27.147	27.462	28.462	0.3798	26.545	26.945	28.046	0.43253	-0.9144	-0.51753	-0.3616	0.18529
30	27.129	27.327	27.697	0.1812	26.396	26.754	27.2	0.24976	-0.791	-0.57312	-0.4254	0.13751
50	27.165	27.247	27.376	0.071401	26.31	26.621	26.795	0.16153	-0.9382	-0.62581	-0.5035	0.1521
100	26.892	27.042	27.166	0.087919	25.583	26.307	26.732	0.40613	-1.5824	-0.73408	-0.3696	0.43352

Device Test: 21.32 LEVEL|LOWSIDE/SW/12/6///@R_LS_6A_25C_HTSSOP





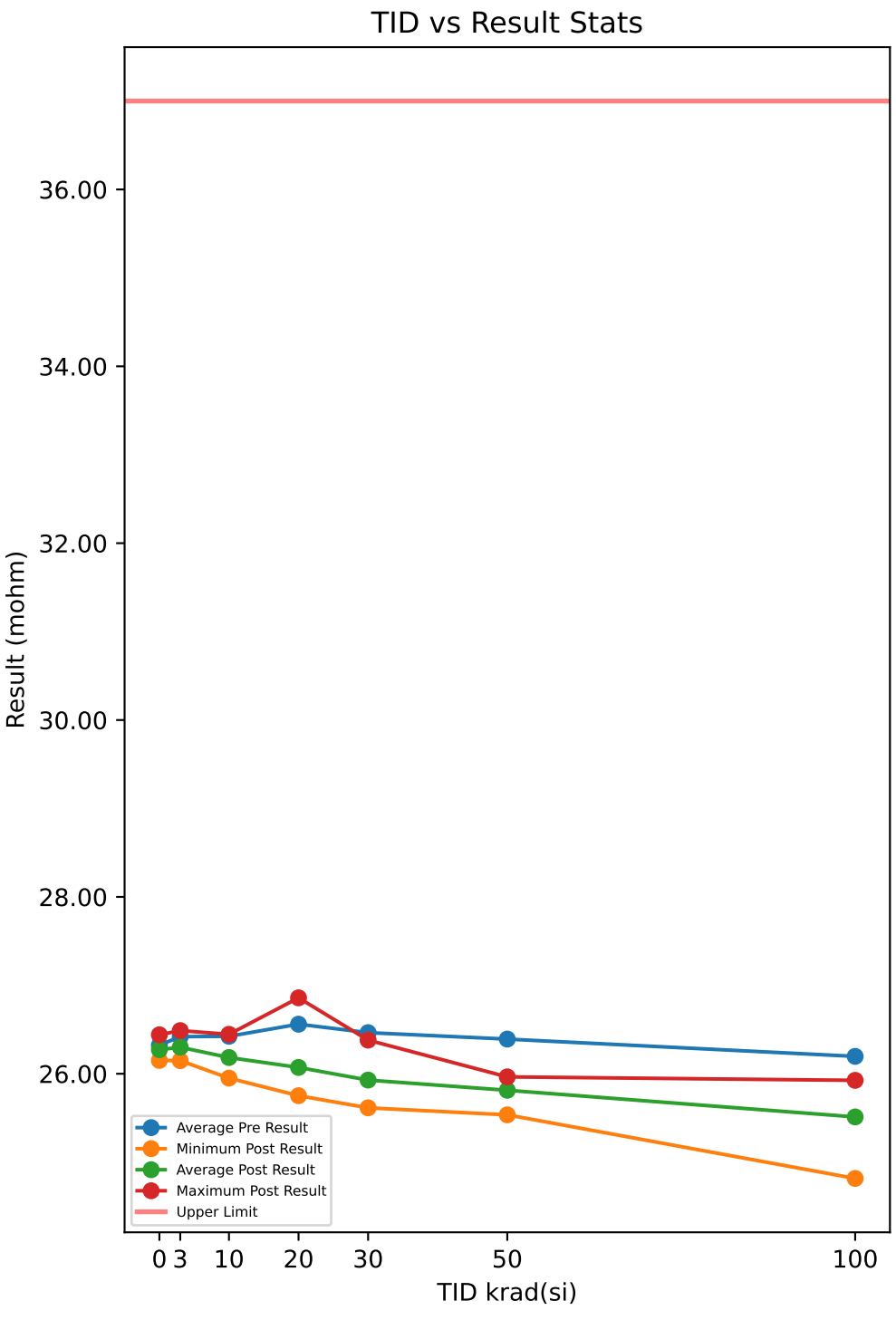
Test Results (Upper Limit = 37.0 (mohm))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	26.389	26.339	-0.0506
51	3	Biased	26.594	26.288	-0.306
52	3	Biased	26.28	26.418	0.1374
53	3	Biased	26.53	26.237	-0.2928
54	3	Biased	26.525	26.249	-0.2765
55	3	Unbiased	26.31	26.145	-0.1651
56	3	Unbiased	26.309	26.321	0.0121
57	3	Unbiased	26.458	26.152	-0.306
58	3	Unbiased	26.276	26.483	0.2074
59	3	Unbiased	26.45	26.329	-0.1211
60	10	Biased	26.354	25.943	-0.4106
61	10	Biased	26.351	26.159	-0.1914
62	10	Biased	26.404	26.096	-0.3086
63	10	Biased	26.644	26.031	-0.613
64	10	Biased	26.285	26.177	-0.1089
65	10	Unbiased	26.519	26.192	-0.3271
66	10	Unbiased	26.439	26.238	-0.2017
67	10	Unbiased	26.452	26.442	-0.0096
68	10	Unbiased	26.503	26.227	-0.2764
69	10	Unbiased	26.323	26.288	-0.0348
100	20	Biased	26.54	25.774	-0.765
200	20	Biased	26.629	26.112	-0.5176
300	20	Biased	26.624	25.75	-0.8748
400	20	Biased	26.375	25.856	-0.5187
500	20	Biased	26.455	26.046	-0.4084
600	20	Unbiased	27.239	26.855	-0.3836
700	20	Unbiased	26.665	26.314	-0.3505
800	20	Unbiased	26.314	25.981	-0.3334
900	20	Unbiased	26.297	25.903	-0.394
1000	20	Unbiased	26.43	26.083	-0.3465
1100	30	Biased	26.601	25.881	-0.7198
1200	30	Biased	26.336	25.718	-0.6177
1300	30	Biased	26.355	25.61	-0.7455
1400	30	Biased	26.314	25.673	-0.6418
1500	30	Biased	26.369	25.846	-0.5228
1600	30	Unbiased	26.285	25.882	-0.4027
1700	30	Unbiased	26.572	26.14	-0.4321
1800	30	Unbiased	26.838	26.376	-0.4614
1900	30	Unbiased	26.512	26.087	-0.4249
2000	30	Unbiased	26.424	26.027	-0.3967
2100	50	Biased-84Hr-Anneal	26.368	25.873	-0.495
2200	50	Biased-84Hr-Anneal	26.357	25.623	-0.7343
2300	50	Biased-84Hr-Anneal	26.41	25.692	-0.7179
2400	50	Biased-84Hr-Anneal	26.486	25.927	-0.5595
2500	50	Biased-84Hr-Anneal	26.421	25.53	-0.8911
2600	50	Unbiased	26.428	25.96	-0.4683
2700	50	Unbiased	26.43	25.936	-0.4931
2800	50	Unbiased	26.321	25.858	-0.4629
2900	50	Unbiased	26.335	25.865	-0.4693
3000	50	Unbiased	26.318	25.849	-0.4695
4000	100	Biased-168Hr-Anneal	26.154	25.354	-0.7993
4100	100	Biased-168Hr-Anneal	26.114	24.843	-1.271
4200	100	Biased-168Hr-Anneal	26.175	25.489	-0.6867
4300	100	Biased-168Hr-Anneal	26.341	24.813	-1.5276
4400	100	Biased-168Hr-Anneal	26.282	25.443	-0.8382
4500	100	Unbiased-168Hr-Anneal	26.081	25.744	-0.337
4600	100	Unbiased-168Hr-Anneal	26.199	25.842	-0.3574
4700	100	Unbiased-168Hr-Anneal	26.089	25.737	-0.3517
4800	100	Unbiased-168Hr-Anneal	26.28	25.921	-0.3593
4900	100	Unbiased-168Hr-Anneal	26.209	25.883	-0.3259
9300	0	CORRELATION	26.328	26.435	0.1071
9400	0	CORRELATION	26.24	26.146	-0.0932
9500	0	CORRELATION	26.31	26.223	-0.0875
9600	0	CORRELATION	26.248	26.153	-0.0947
9700	0	CORRELATION	26.468	26.381	-0.0871

Test Statistics (mohm)

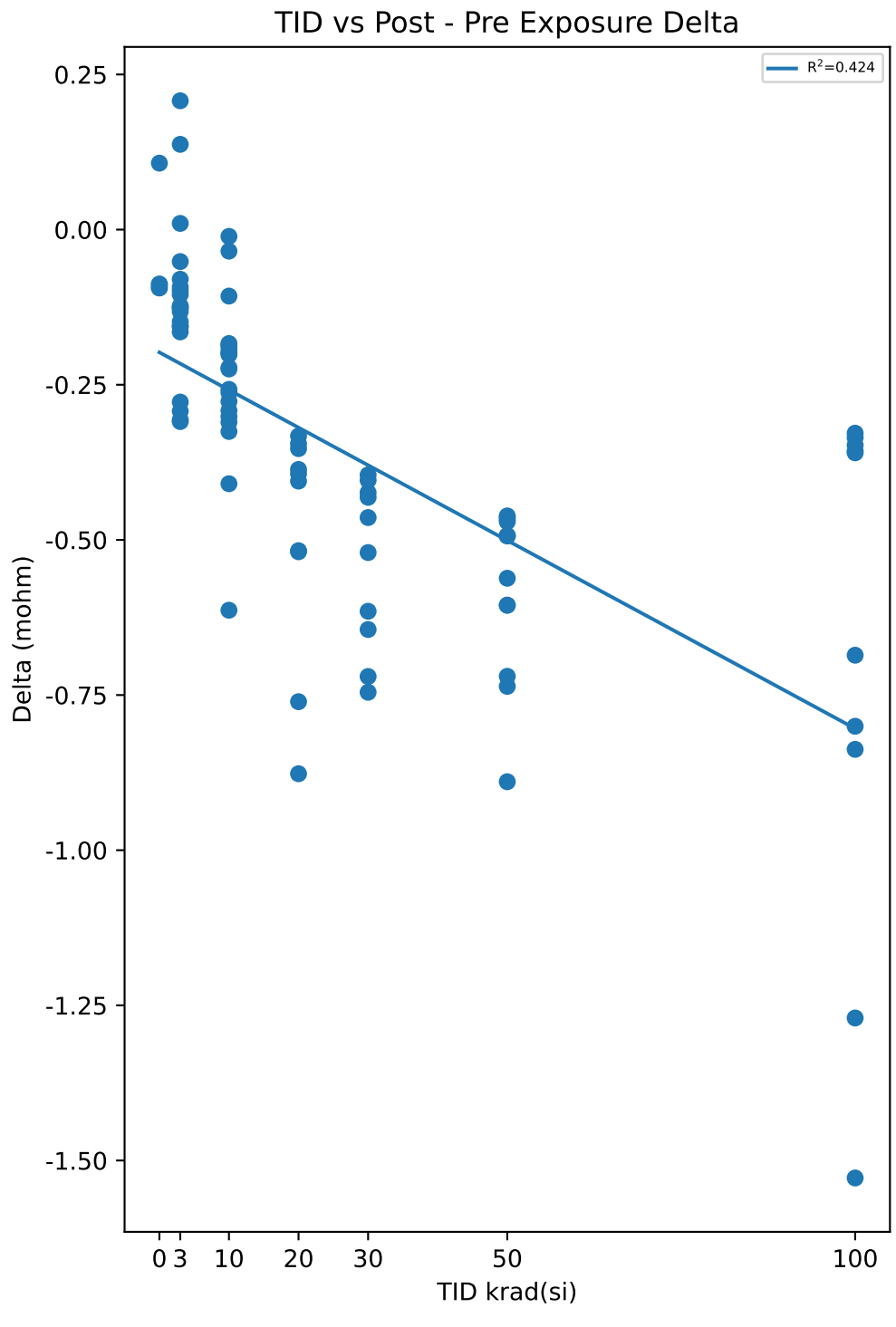
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.24	26.319	26.468	0.091682	26.146	26.268	26.435	0.13285	-0.0947	-0.05108	0.1071	0.08849
3	26.276	26.412	26.594	0.11589	26.145	26.296	26.483	0.10696	-0.306	-0.11612	0.2074	0.1889
10	26.285	26.427	26.644	0.10785	25.943	26.179	26.442	0.13822	-0.613	-0.24821	-0.0096	0.18178
20	26.297	26.557	27.239	0.27344	25.75	26.068	26.855	0.32497	-0.8748	-0.48925	-0.3334	0.18769
30	26.285	26.461	26.838	0.17176	25.61	25.924	26.376	0.23631	-0.7455	-0.53654	-0.3967	0.13399
50	26.318	26.387	26.486	0.055822	25.53	25.811	25.96	0.14538	-0.8911	-0.57609	-0.4629	0.15104
100	26.081	26.192	26.341	0.087654	24.813	25.507	25.921	0.40608	-1.5276	-0.68541	-0.3259	0.43005

Device Test: 21.35 LEVEL|LOWSIDE/SW/14/6///@R_LS_6A_25C_HTSSOP



Test Results (Upper Limit = 37.0 (mohm))

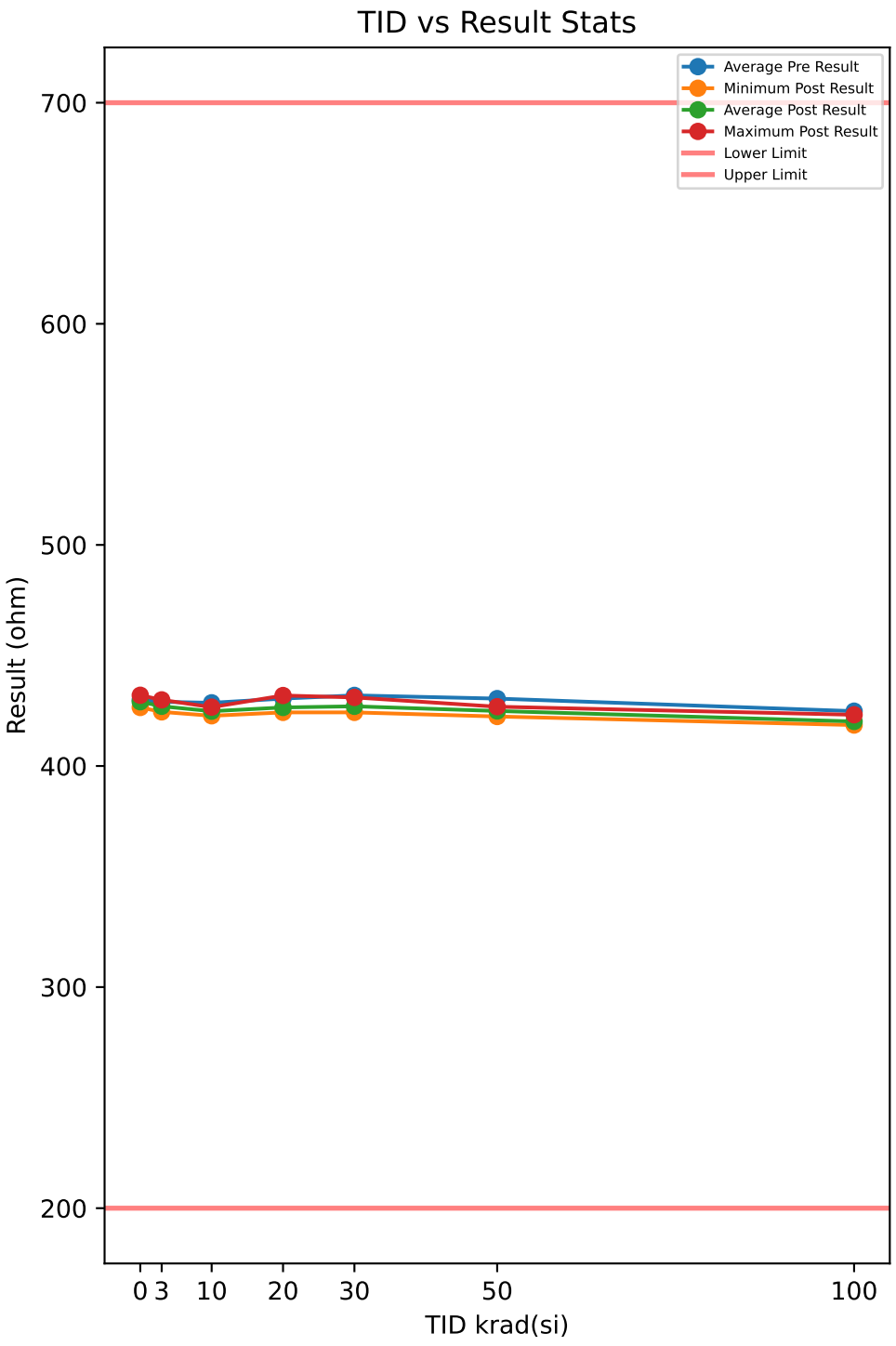
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	26.394	26.343	-0.0515
51	3	Biased	26.6	26.291	-0.3093
52	3	Biased	26.286	26.424	0.1374
53	3	Biased	26.536	26.244	-0.2926
54	3	Biased	26.529	26.251	-0.2779
55	3	Unbiased	26.313	26.148	-0.1648
56	3	Unbiased	26.315	26.325	0.01
57	3	Unbiased	26.462	26.156	-0.3066
58	3	Unbiased	26.28	26.488	0.2076
59	3	Unbiased	26.454	26.332	-0.1228
60	10	Biased	26.36	25.951	-0.4095
61	10	Biased	26.353	26.163	-0.1898
62	10	Biased	26.409	26.099	-0.3104
63	10	Biased	26.647	26.034	-0.6133
64	10	Biased	26.288	26.181	-0.1071
65	10	Unbiased	26.523	26.198	-0.3253
66	10	Unbiased	26.443	26.242	-0.2015
67	10	Unbiased	26.457	26.446	-0.0109
68	10	Unbiased	26.506	26.23	-0.2768
69	10	Unbiased	26.326	26.292	-0.0347
100	20	Biased	26.542	25.781	-0.7607
200	20	Biased	26.634	26.114	-0.5191
300	20	Biased	26.629	25.752	-0.8768
400	20	Biased	26.377	25.859	-0.5174
500	20	Biased	26.456	26.051	-0.4053
600	20	Unbiased	27.245	26.858	-0.3865
700	20	Unbiased	26.67	26.317	-0.3529
800	20	Unbiased	26.317	25.985	-0.3326
900	20	Unbiased	26.301	25.908	-0.3934
1000	20	Unbiased	26.433	26.088	-0.3448
1100	30	Biased	26.605	25.885	-0.7201
1200	30	Biased	26.34	25.724	-0.615
1300	30	Biased	26.36	25.615	-0.7455
1400	30	Biased	26.319	25.675	-0.6444
1500	30	Biased	26.372	25.851	-0.5204
1600	30	Unbiased	26.289	25.885	-0.4039
1700	30	Unbiased	26.576	26.144	-0.4314
1800	30	Unbiased	26.844	26.38	-0.464
1900	30	Unbiased	26.515	26.091	-0.4237
2000	30	Unbiased	26.428	26.033	-0.3953
2100	50	Biased-84Hr-Anneal	26.372	25.878	-0.4934
2200	50	Biased-84Hr-Anneal	26.362	25.626	-0.736
2300	50	Biased-84Hr-Anneal	26.415	25.695	-0.7198
2400	50	Biased-84Hr-Anneal	26.492	25.931	-0.5618
2500	50	Biased-84Hr-Anneal	26.425	25.535	-0.8897
2600	50	Unbiased	26.435	25.965	-0.4706
2700	50	Unbiased	26.434	25.941	-0.4932
2800	50	Unbiased	26.325	25.863	-0.4614
2900	50	Unbiased	26.337	25.873	-0.4637
3000	50	Unbiased	26.321	25.853	-0.4676
4000	100	Biased-168Hr-Anneal	26.159	25.359	-0.8003
4100	100	Biased-168Hr-Anneal	26.119	24.849	-1.2704
4200	100	Biased-168Hr-Anneal	26.179	25.493	-0.6858
4300	100	Biased-168Hr-Anneal	26.345	24.816	-1.5282
4400	100	Biased-168Hr-Anneal	26.284	25.447	-0.8375
4500	100	Unbiased-168Hr-Anneal	26.083	25.747	-0.3353
4600	100	Unbiased-168Hr-Anneal	26.204	25.847	-0.357
4700	100	Unbiased-168Hr-Anneal	26.091	25.744	-0.3473
4800	100	Unbiased-168Hr-Anneal	26.285	25.925	-0.3597
4900	100	Unbiased-168Hr-Anneal	26.216	25.888	-0.328
9300	0	CORRELATION	26.334	26.441	0.1071
9400	0	CORRELATION	26.245	26.151	-0.094
9500	0	CORRELATION	26.315	26.227	-0.0883
9600	0	CORRELATION	26.251	26.157	-0.0938
9700	0	CORRELATION	26.472	26.385	-0.0877

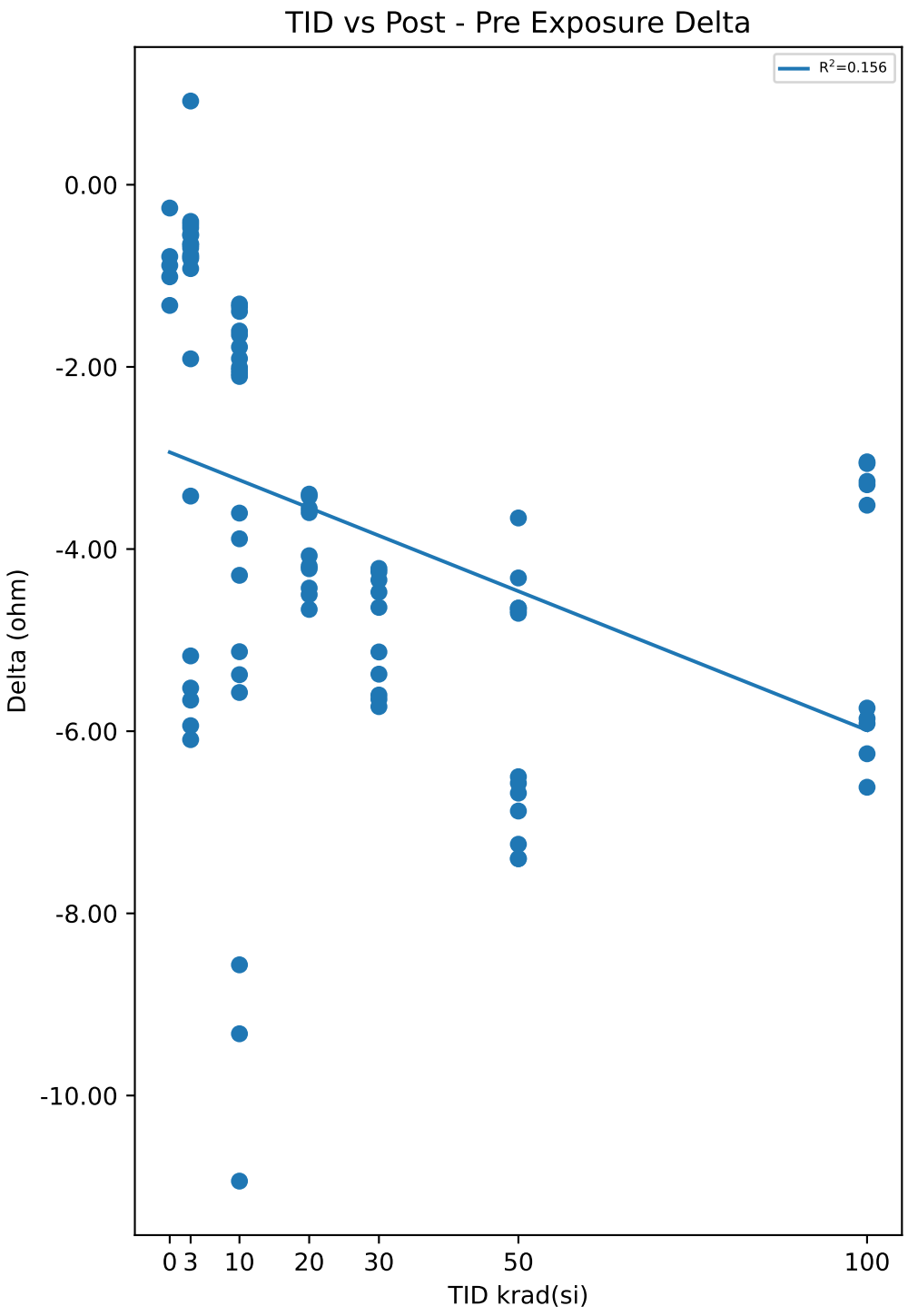


Test Statistics (mohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.245	26.323	26.472	0.091792	26.151	26.272	26.441	0.13316	-0.094	-0.05134	0.1071	0.08862
3	26.28	26.417	26.6	0.11619	26.148	26.3	26.488	0.10721	-0.3093	-0.11705	0.2076	0.18929
10	26.288	26.431	26.647	0.10774	25.951	26.183	26.446	0.13757	-0.6133	-0.24793	-0.0109	0.18176
20	26.301	26.56	27.245	0.27449	25.752	26.071	26.858	0.32456	-0.8768	-0.48895	-0.3326	0.18748
30	26.289	26.465	26.844	0.17229	25.615	25.928	26.38	0.23621	-0.7455	-0.53637	-0.3953	0.13416
50	26.321	26.392	26.492	0.057002	25.535	25.816	25.965	0.14571	-0.8897	-0.57572	-0.4614	0.15172
100	26.083	26.197	26.345	0.087922	24.816	25.512	25.925	0.40637	-1.5282	-0.68495	-0.328	0.43043

Device Test: 22.10 LEVEL|SINK/SS_TR/5////@R_SS_DISCHARGE





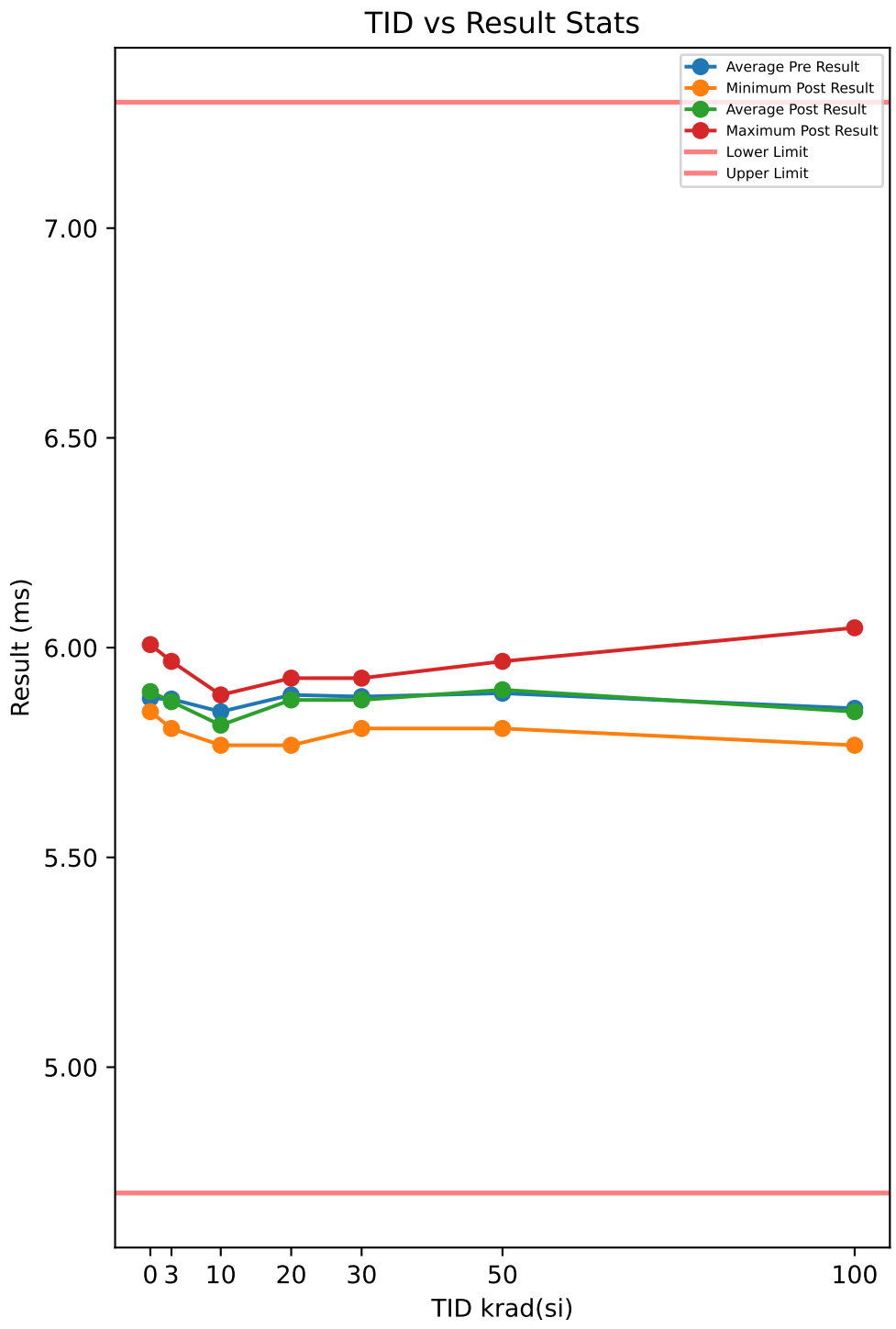
Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (ohm))

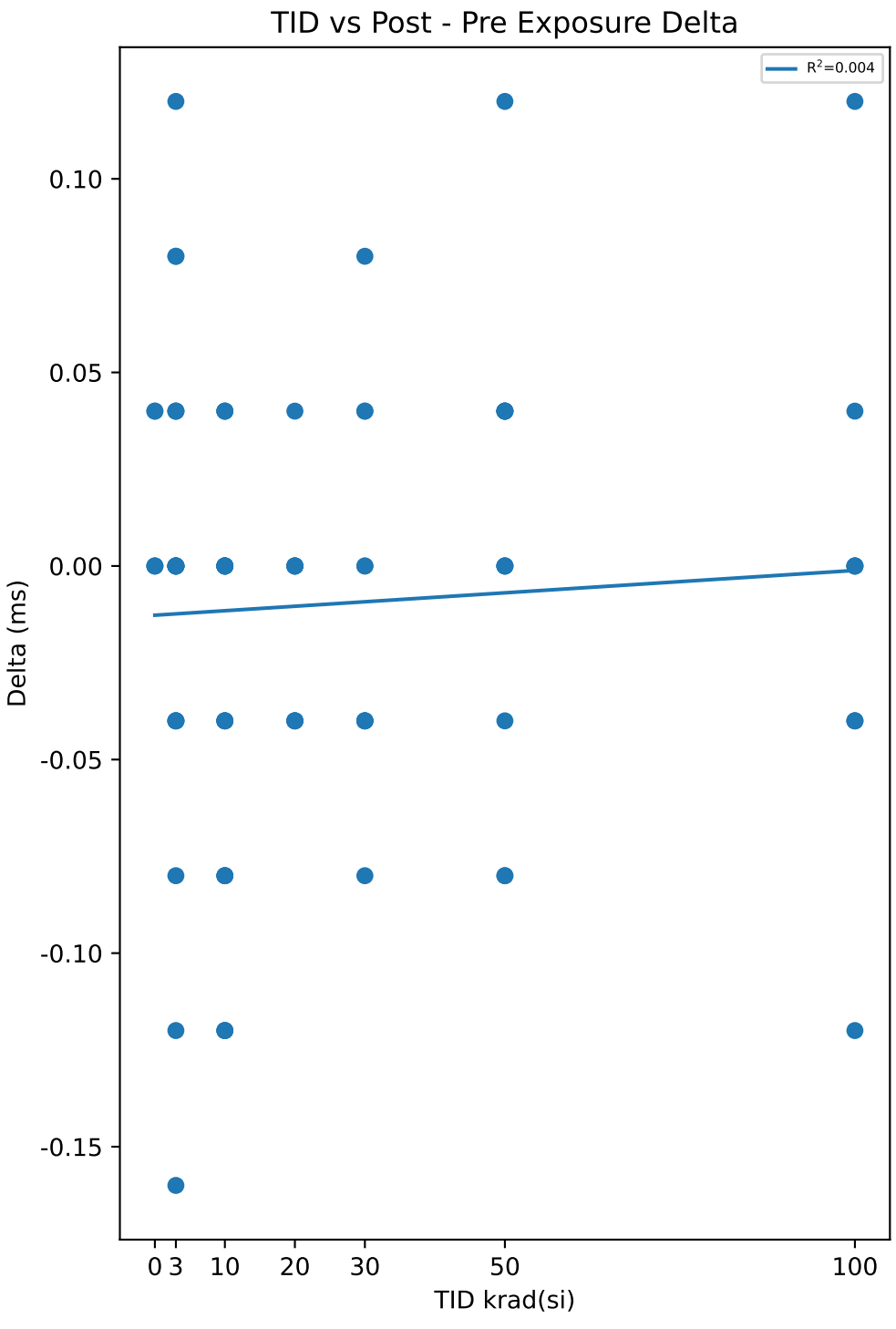
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	431.62	428.21	-3.4185
51	3	Biased	433.28	427.34	-5.9393
52	3	Biased	427.07	426.51	-0.5574
53	3	Biased	433.45	427.36	-6.0924
54	3	Biased	428.99	429.91	0.9188
55	3	Unbiased	430	424.48	-5.5261
56	3	Unbiased	428.84	426.93	-1.9114
57	3	Unbiased	432.87	427.22	-5.6587
58	3	Unbiased	427.15	426.34	-0.8108
59	3	Unbiased	430.94	425.76	-5.1733
60	10	Biased	431.59	423.02	-8.565
61	10	Biased	429.18	424.9	-4.2884
62	10	Biased	428.47	424.58	-3.8873
63	10	Biased	431.81	426.43	-5.3795
64	10	Biased	428.28	424.67	-3.6053
65	10	Unbiased	433.65	422.71	-10.94
66	10	Unbiased	428.97	423.85	-5.1271
67	10	Unbiased	428.69	426.62	-2.0736
68	10	Unbiased	434.28	424.96	-9.3219
69	10	Unbiased	431.69	426.12	-5.5749
100	20	Biased	433.07	428.41	-4.6626
200	20	Biased	430.53	426.97	-3.5554
300	20	Biased	435.48	431.88	-3.6003
400	20	Biased	427.66	424.24	-3.4218
500	20	Biased	428.82	425.42	-3.3971
600	20	Unbiased	428.93	424.75	-4.1871
700	20	Unbiased	432.18	427.75	-4.4286
800	20	Unbiased	429.81	425.6	-4.2161
900	20	Unbiased	429.34	424.84	-4.5002
1000	20	Unbiased	429.01	424.94	-4.0734
1100	30	Biased	433.31	428.67	-4.6406
1200	30	Biased	428.49	424.25	-4.2496
1300	30	Biased	429.07	424.6	-4.4729
1400	30	Biased	432.39	428.05	-4.3394
1500	30	Biased	429.39	425.18	-4.2128
1600	30	Unbiased	430.08	424.71	-5.3736
1700	30	Unbiased	434.55	428.82	-5.7299
1800	30	Unbiased	436.62	431.01	-5.6028
1900	30	Unbiased	434.71	429.06	-5.6489
2000	30	Unbiased	430.79	425.66	-5.13
2100	50	Biased-84Hr-Anneal	431.31	423.91	-7.3994
2200	50	Biased-84Hr-Anneal	428.7	425.05	-3.6589
2300	50	Biased-84Hr-Anneal	430.91	426.23	-4.6808
2400	50	Biased-84Hr-Anneal	431.29	426.59	-4.7052
2500	50	Biased-84Hr-Anneal	431.13	426.82	-4.3174
2600	50	Unbiased	429.52	422.84	-6.6799
2700	50	Unbiased	430.32	423.44	-6.8764
2800	50	Unbiased	428.89	422.39	-6.4996
2900	50	Unbiased	431.5	424.26	-7.2411
3000	50	Unbiased	431.28	424.71	-6.5707
4000	100	Biased-168Hr-Anneal	422.58	419.54	-3.0427
4100	100	Biased-168Hr-Anneal	424.63	421.38	-3.2567
4200	100	Biased-168Hr-Anneal	421.59	418.52	-3.0611
4300	100	Biased-168Hr-Anneal	426.47	423.17	-3.2939
4400	100	Biased-168Hr-Anneal	426.43	422.91	-3.5186
4500	100	Unbiased-168Hr-Anneal	425.8	419.94	-5.861
4600	100	Unbiased-168Hr-Anneal	425.47	419.22	-6.2475
4700	100	Unbiased-168Hr-Anneal	425.17	419.26	-5.9164
4800	100	Unbiased-168Hr-Anneal	425.54	418.93	-6.6152
4900	100	Unbiased-168Hr-Anneal	424.32	418.57	-5.7459
9300	0	CORRELATION	432.25	432	-0.2559
9400	0	CORRELATION	432.4	431.51	-0.8863
9500	0	CORRELATION	428.58	427.26	-1.3251
9600	0	CORRELATION	427.48	426.47	-1.0109
9700	0	CORRELATION	428.82	428.03	-0.7883

Test Statistics (ohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	427.48	429.91	432.4	2.2658	426.47	429.05	432	2.5325	-1.3251	-0.8533	-0.2559	0.3904
3	427.07	430.42	433.45	2.3972	424.48	427.01	429.91	1.4449	-6.0924	-3.4169	0.9188	2.6271
10	428.28	430.66	434.28	2.2282	422.71	424.79	426.62	1.3424	-10.94	-5.8763	-2.0736	2.8232
20	427.66	430.48	435.48	2.3947	424.24	426.48	431.88	2.3508	-4.6626	-4.0043	-3.3971	0.47318
30	428.49	431.94	436.62	2.7844	424.25	427	431.01	2.3865	-5.7299	-4.94	-4.2128	0.62039
50	428.7	430.48	431.5	1.0685	422.39	424.62	426.82	1.5514	-7.3994	-5.8629	-3.6589	1.3681
100	421.59	424.8	426.47	1.6027	418.52	420.14	423.17	1.7316	-6.6152	-4.6559	-3.0427	1.5222

Device Test: 22.13 TIMING|STARTUP/SS_TR/5////@T_SS_22NF





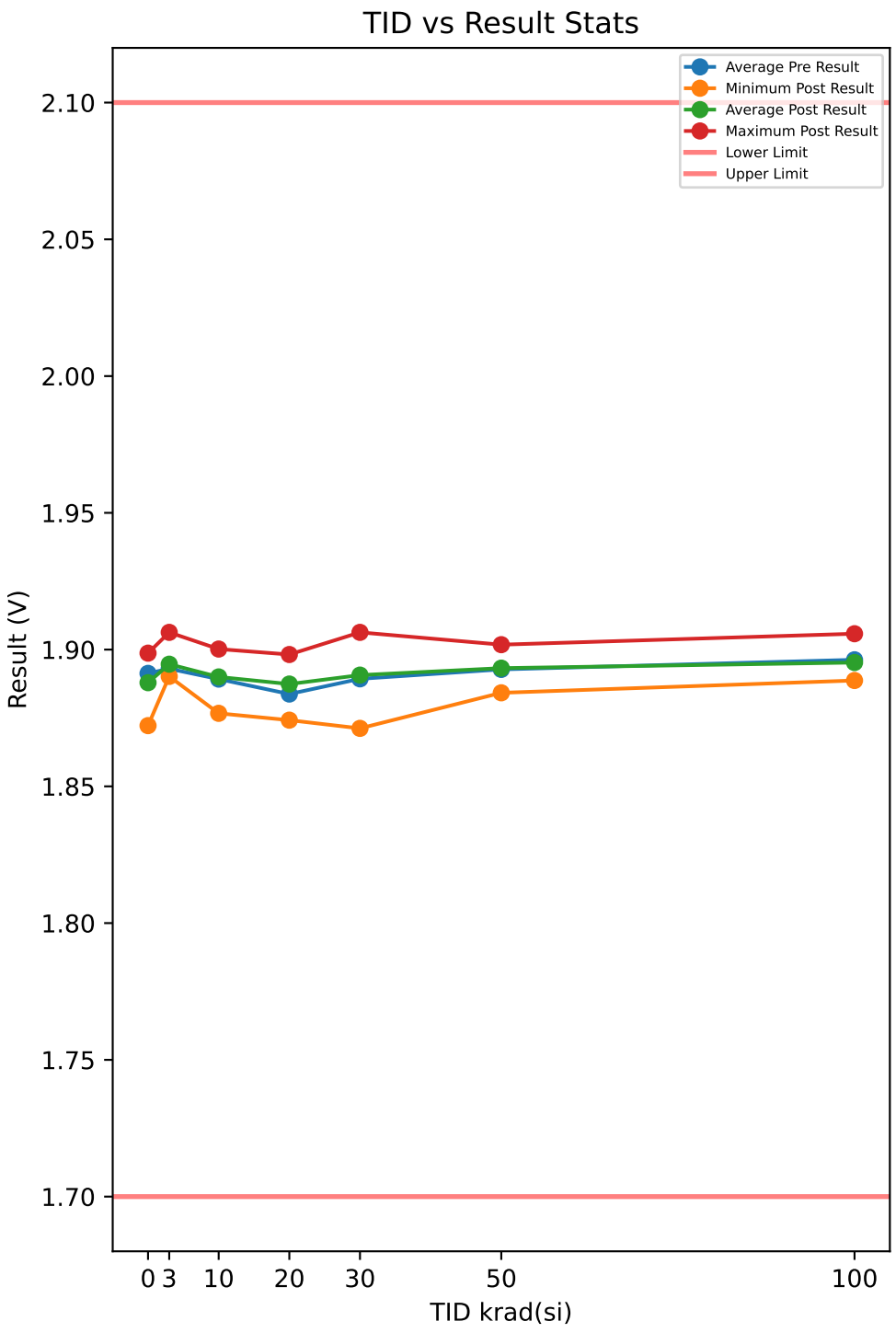
Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	5.8873	5.8873	0
51	3	Biased	5.9673	5.8073	-0.16
52	3	Biased	5.9673	5.8473	-0.12
53	3	Biased	5.8873	5.9273	0.04
54	3	Biased	5.9273	5.8873	-0.04
55	3	Unbiased	5.8873	5.8073	-0.08
56	3	Unbiased	5.8473	5.9673	0.12
57	3	Unbiased	5.8073	5.8873	0.08
58	3	Unbiased	5.8473	5.8473	0
59	3	Unbiased	5.8873	5.8473	-0.04
60	10	Biased	5.8873	5.7673	-0.12
61	10	Biased	5.8473	5.8473	0
62	10	Biased	5.8873	5.8073	-0.08
63	10	Biased	5.8873	5.8473	-0.04
64	10	Biased	5.9273	5.8073	-0.12
65	10	Unbiased	5.8073	5.8073	0
66	10	Unbiased	5.8473	5.7673	-0.08
67	10	Unbiased	5.9273	5.8873	-0.04
68	10	Unbiased	5.8473	5.8073	-0.04
69	10	Unbiased	5.9273	5.8073	-0.12
100	20	Biased	5.8873	5.8873	0
200	20	Biased	5.8873	5.8473	-0.04
300	20	Biased	5.8873	5.9273	0.04
400	20	Biased	5.9673	5.9273	-0.04
500	20	Biased	5.9273	5.9273	0
600	20	Unbiased	5.8073	5.7673	-0.04
700	20	Unbiased	5.8473	5.8473	0
800	20	Unbiased	5.8873	5.8473	-0.04
900	20	Unbiased	5.8473	5.8473	0
1000	20	Unbiased	5.9273	5.9273	0
1100	30	Biased	5.8873	5.9273	0.04
1200	30	Biased	5.8873	5.8473	-0.04
1300	30	Biased	5.8073	5.8873	0.08
1400	30	Biased	5.9273	5.8473	-0.08
1500	30	Biased	5.9273	5.9273	0
1600	30	Unbiased	5.8873	5.9273	0.04
1700	30	Unbiased	5.8473	5.8473	0
1800	30	Unbiased	5.9273	5.8873	-0.04
1900	30	Unbiased	5.8473	5.8073	-0.04
2000	30	Unbiased	5.8873	5.8473	-0.04
2100	50	Biased-84Hr-Anneal	5.8873	5.8873	0
2200	50	Biased-84Hr-Anneal	5.8873	5.9273	0.04
2300	50	Biased-84Hr-Anneal	5.8473	5.9673	0.12
2400	50	Biased-84Hr-Anneal	5.8873	5.8873	0
2500	50	Biased-84Hr-Anneal	5.9273	5.9673	0.04
2600	50	Unbiased	5.8873	5.8073	-0.08
2700	50	Unbiased	5.8873	5.8073	-0.08
2800	50	Unbiased	5.9273	5.9273	0
2900	50	Unbiased	5.8873	5.9273	0.04
3000	50	Unbiased	5.8873	5.8473	-0.04
4000	100	Biased-168Hr-Anneal	5.9273	6.0473	0.12
4100	100	Biased-168Hr-Anneal	5.8473	5.8473	0
4200	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4300	100	Biased-168Hr-Anneal	5.8073	5.7673	-0.04
4400	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4500	100	Unbiased-168Hr-Anneal	5.8873	5.9273	0.04
4600	100	Unbiased-168Hr-Anneal	5.8473	5.8073	-0.04
4700	100	Unbiased-168Hr-Anneal	5.8873	5.8473	-0.04
4800	100	Unbiased-168Hr-Anneal	5.8473	5.8473	0
4900	100	Unbiased-168Hr-Anneal	5.8873	5.7673	-0.12
9300	0	CORRELATION	5.8473	5.8473	0
9400	0	CORRELATION	6.0073	6.0073	0
9500	0	CORRELATION	5.8073	5.8473	0.04
9600	0	CORRELATION	5.8873	5.9273	0.04
9700	0	CORRELATION	5.8473	5.8473	0

Test Statistics (ms)

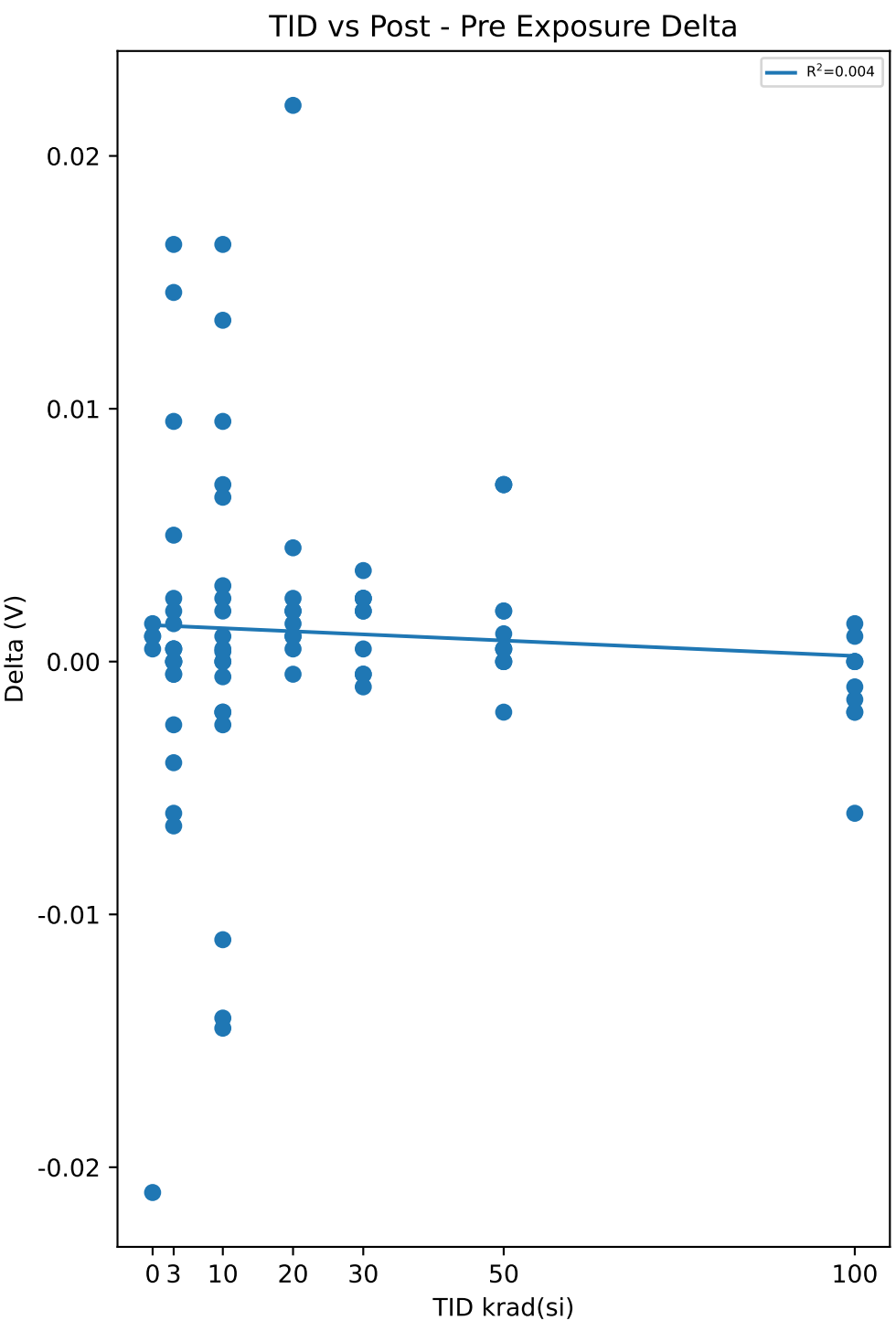
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.8073	5.8793	6.0073	0.076942	5.8473	5.8953	6.0073	0.071554	0	0.016	0.04	0.021909
3	5.8073	5.8913	5.9673	0.051467	5.8073	5.8713	5.9673	0.050596	-0.16	-0.02	0.12	0.086923
10	5.8073	5.8793	5.9273	0.041312	5.7673	5.8153	5.8873	0.036757	-0.12	-0.064	0	0.046952
20	5.8073	5.8873	5.9673	0.046188	5.7673	5.8753	5.9273	0.0535	-0.04	-0.012	0.04	0.026998
30	5.8073	5.8833	5.9273	0.039777	5.8073	5.8753	5.9273	0.042374	-0.08	-0.008	0.08	0.049171
50	5.8473	5.8913	5.9273	0.022706	5.8073	5.8953	5.9673	0.059029	-0.08	0.004	0.12	0.060955
100	5.8073	5.8553	5.9273	0.041312	5.7673	5.8473	6.0473	0.084327	-0.12	-0.008	0.12	0.061968

Device Test: 22.16 LEVEL|RISE/COMP/12////@COMP_SHDN



Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

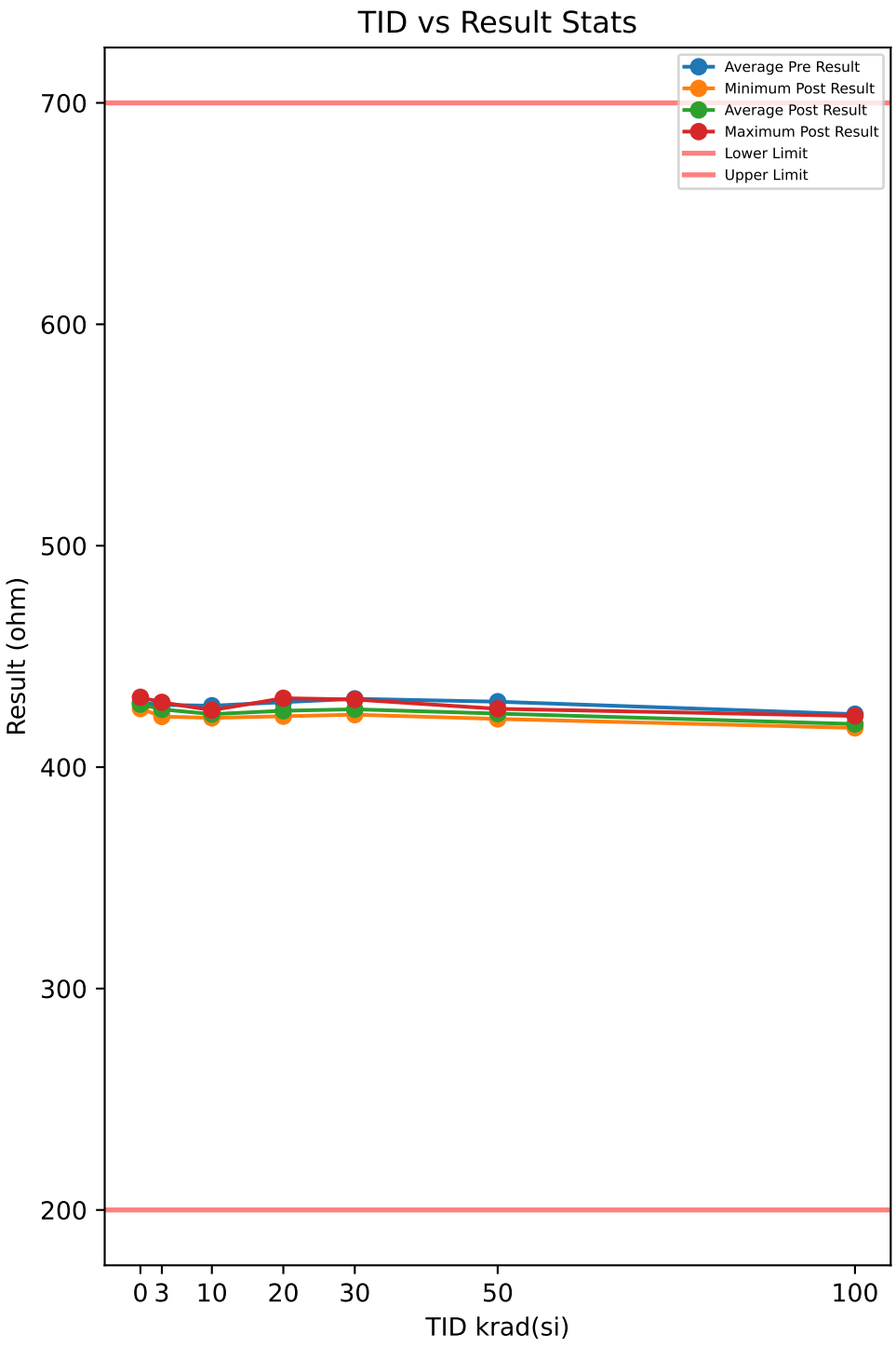
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.8927	1.8977	0.005
51	3	Biased	1.8947	1.8952	0.0005
52	3	Biased	1.8962	1.8922	-0.004
53	3	Biased	1.8917	1.9063	0.0146
54	3	Biased	1.8962	1.8937	-0.0025
55	3	Unbiased	1.8907	1.8922	0.0015
56	3	Unbiased	1.8962	1.8902	-0.006
57	3	Unbiased	1.8857	1.8952	0.0095
58	3	Unbiased	1.8977	1.8912	-0.0065
59	3	Unbiased	1.8762	1.8927	0.0165
60	10	Biased	1.8907	1.8907	0
61	10	Biased	1.9058	1.8917	-0.0141
62	10	Biased	1.8912	1.8767	-0.0145
63	10	Biased	1.8727	1.8862	0.0135
64	10	Biased	1.8877	1.8947	0.007
65	10	Unbiased	1.8832	1.8897	0.0065
66	10	Unbiased	1.8907	1.9002	0.0095
67	10	Unbiased	1.8942	1.8832	-0.011
68	10	Unbiased	1.8822	1.8987	0.0165
69	10	Unbiased	1.8872	1.8882	0.001
100	20	Biased	1.8717	1.8937	0.022
200	20	Biased	1.8832	1.8837	0.0005
300	20	Biased	1.8737	1.8747	0.001
400	20	Biased	1.8967	1.8982	0.0015
500	20	Biased	1.8722	1.8742	0.002
600	20	Unbiased	1.8932	1.8977	0.0045
700	20	Unbiased	1.8767	1.8787	0.002
800	20	Unbiased	1.8917	1.8912	-0.0005
900	20	Unbiased	1.8887	1.8912	0.0025
1000	20	Unbiased	1.8897	1.8907	0.001
1100	30	Biased	1.8882	1.8902	0.002
1200	30	Biased	1.8887	1.8882	-0.0005
1300	30	Biased	1.9007	1.9043	0.0036
1400	30	Biased	1.8897	1.8887	-0.001
1500	30	Biased	1.8982	1.9007	0.0025
1600	30	Unbiased	1.9068	1.9063	-0.0005
1700	30	Unbiased	1.8787	1.8812	0.0025
1800	30	Unbiased	1.8707	1.8712	0.0005
1900	30	Unbiased	1.8797	1.8822	0.0025
2000	30	Unbiased	1.8917	1.8937	0.002
2100	50	Biased-84Hr-Anneal	1.8862	1.8932	0.007
2200	50	Biased-84Hr-Anneal	1.8922	1.8922	0
2300	50	Biased-84Hr-Anneal	1.8982	1.8993	0.0011
2400	50	Biased-84Hr-Anneal	1.8917	1.8922	0.0005
2500	50	Biased-84Hr-Anneal	1.8842	1.8842	0
2600	50	Unbiased	1.8977	1.8982	0.0005
2700	50	Unbiased	1.8942	1.8942	0
2800	50	Unbiased	1.9013	1.9018	0.0005
2900	50	Unbiased	1.8887	1.8867	-0.002
3000	50	Unbiased	1.8932	1.9002	0.007
4000	100	Biased-168Hr-Anneal	1.8977	1.8917	-0.006
4100	100	Biased-168Hr-Anneal	1.8902	1.8892	-0.001
4200	100	Biased-168Hr-Anneal	1.8922	1.8937	0.0015
4300	100	Biased-168Hr-Anneal	1.9018	1.8998	-0.002
4400	100	Biased-168Hr-Anneal	1.8942	1.8942	0
4500	100	Unbiased-168Hr-Anneal	1.9007	1.8987	-0.002
4600	100	Unbiased-168Hr-Anneal	1.8942	1.8927	-0.0015
4700	100	Unbiased-168Hr-Anneal	1.8877	1.8887	0.001
4800	100	Unbiased-168Hr-Anneal	1.8982	1.8982	0
4900	100	Unbiased-168Hr-Anneal	1.9058	1.9058	0
9300	0	CORRELATION	1.8932	1.8722	-0.021
9400	0	CORRELATION	1.8812	1.8822	0.001
9500	0	CORRELATION	1.8912	1.8917	0.0005
9600	0	CORRELATION	1.8932	1.8947	0.0015
9700	0	CORRELATION	1.8977	1.8987	0.001

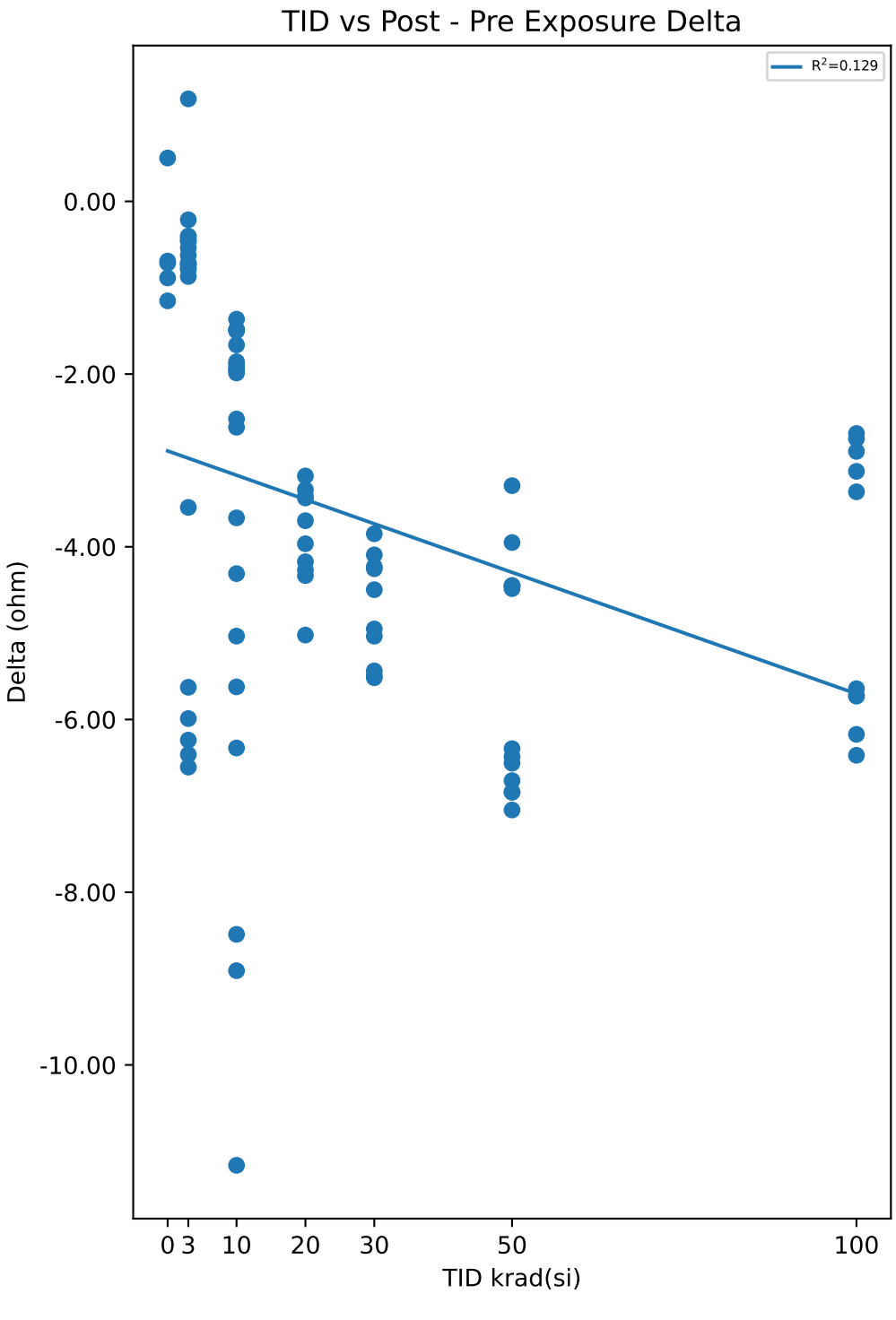


Test Statistics (V)

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	1.8812	1.8913	1.8977	0.0061278	1.8722	1.8879	1.8987	0.010681	-0.021	-0.0034	0.0015	0.009845
3	1.8762	1.8918	1.8977	0.0065311	1.8902	1.8947	1.9063	0.0046433	-0.0065	0.00286	0.0165	0.0083124
10	1.8727	1.8886	1.9058	0.0086182	1.8767	1.89	1.9002	0.0070404	-0.0145	0.00144	0.0165	0.011286
20	1.8717	1.8837	1.8967	0.0094852	1.8742	1.8874	1.8982	0.0089883	-0.0005	0.00365	0.022	0.006583
30	1.8707	1.8893	1.9068	0.010921	1.8712	1.8907	1.9063	0.011008	-0.001	0.00136	0.0036	0.0015974
50	1.8842	1.8928	1.9013	0.0054101	1.8842	1.8942	1.9018	0.0057833	-0.002	0.00146	0.007	0.0030303
100	1.8877	1.8963	1.9058	0.0055998	1.8887	1.8953	1.9058	0.00532	-0.006	-0.001	0.0015	0.0021213

Device Test: 22.17 LEVEL|SINK/SS_TR/12////@R_SS_DISCHARGE





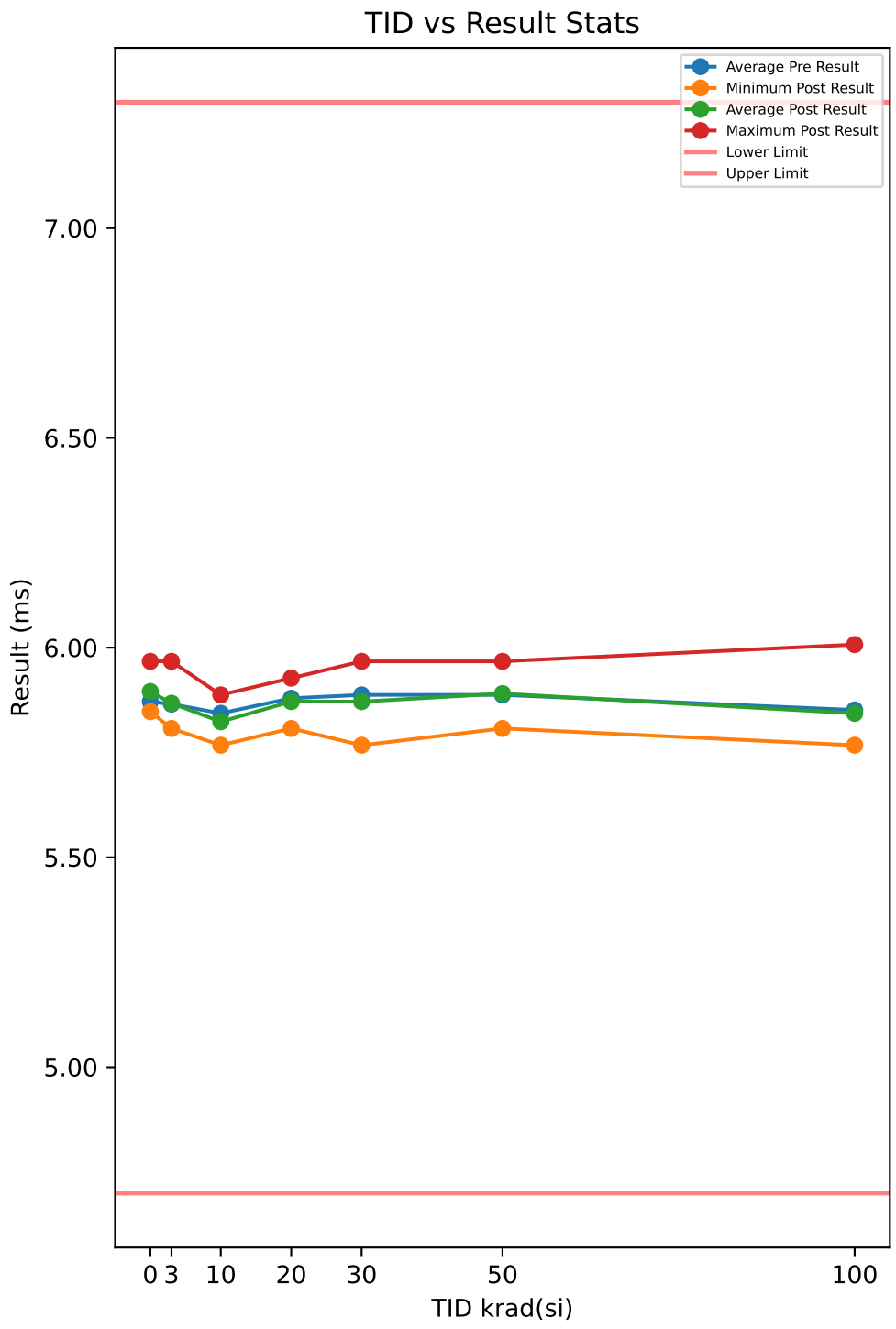
Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (ohm))

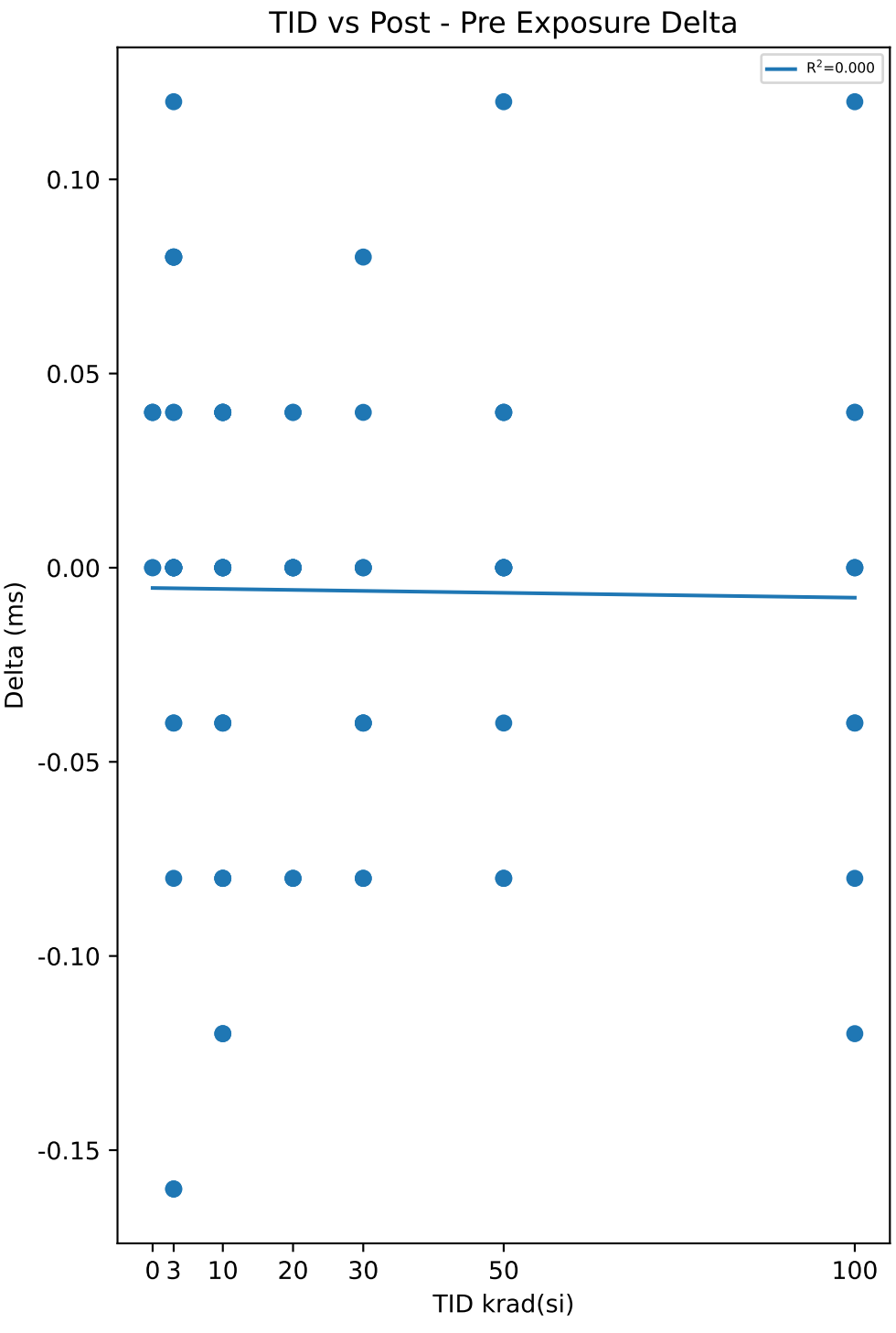
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	431.06	427.52	-3.5441
51	3	Biased	432.82	426.42	-6.4053
52	3	Biased	426.29	426.07	-0.2132
53	3	Biased	432.28	426.66	-5.6268
54	3	Biased	428.06	429.25	1.1869
55	3	Unbiased	429.09	422.85	-6.2386
56	3	Unbiased	427.18	426.47	-0.7125
57	3	Unbiased	432.24	425.69	-6.5514
58	3	Unbiased	426.29	425.88	-0.4025
59	3	Unbiased	430.01	424.02	-5.9891
60	10	Biased	430.74	422.25	-8.4879
61	10	Biased	427.77	424.11	-3.6649
62	10	Biased	427.52	422.48	-5.0343
63	10	Biased	430.98	425.36	-5.6223
64	10	Biased	427.06	424.44	-2.6158
65	10	Unbiased	433.53	422.37	-11.162
66	10	Unbiased	427.77	423.46	-4.3107
67	10	Unbiased	428.25	425.73	-2.5197
68	10	Unbiased	433.05	424.14	-8.9087
69	10	Unbiased	431.35	425.02	-6.3299
100	20	Biased	432.42	427.4	-5.0221
200	20	Biased	429.27	425.85	-3.4138
300	20	Biased	434.55	431.12	-3.435
400	20	Biased	426.16	422.98	-3.1799
500	20	Biased	427.13	423.79	-3.3378
600	20	Unbiased	427.48	423.31	-4.1732
700	20	Unbiased	431.09	426.82	-4.2701
800	20	Unbiased	428.91	424.94	-3.9651
900	20	Unbiased	428.13	423.8	-4.3335
1000	20	Unbiased	428.3	424.61	-3.6976
1100	30	Biased	432.06	427.57	-4.4968
1200	30	Biased	427.79	423.7	-4.0935
1300	30	Biased	428.01	423.76	-4.2543
1400	30	Biased	431.6	427.36	-4.2314
1500	30	Biased	428.3	424.45	-3.8492
1600	30	Unbiased	429.23	424.28	-4.9513
1700	30	Unbiased	433.05	427.55	-5.4915
1800	30	Unbiased	435.98	430.54	-5.437
1900	30	Unbiased	433.26	427.75	-5.5161
2000	30	Unbiased	429.27	424.24	-5.0351
2100	50	Biased-84Hr-Anneal	430.21	423.37	-6.8407
2200	50	Biased-84Hr-Anneal	427.38	424.09	-3.2921
2300	50	Biased-84Hr-Anneal	430.2	425.75	-4.4471
2400	50	Biased-84Hr-Anneal	430.11	425.63	-4.4847
2500	50	Biased-84Hr-Anneal	430.29	426.34	-3.9507
2600	50	Unbiased	428.71	422.28	-6.4308
2700	50	Unbiased	429.4	422.69	-6.7079
2800	50	Unbiased	428.11	421.78	-6.338
2900	50	Unbiased	430.45	423.4	-7.0479
3000	50	Unbiased	430.67	424.17	-6.5055
4000	100	Biased-168Hr-Anneal	421.2	418.51	-2.6878
4100	100	Biased-168Hr-Anneal	423.22	420.09	-3.1264
4200	100	Biased-168Hr-Anneal	421.04	418.29	-2.7478
4300	100	Biased-168Hr-Anneal	426	423.11	-2.8954
4400	100	Biased-168Hr-Anneal	426.01	422.64	-3.3633
4500	100	Unbiased-168Hr-Anneal	424.61	418.97	-5.6429
4600	100	Unbiased-168Hr-Anneal	424.75	418.57	-6.1719
4700	100	Unbiased-168Hr-Anneal	424.7	418.98	-5.7256
4800	100	Unbiased-168Hr-Anneal	424.25	417.83	-6.4145
4900	100	Unbiased-168Hr-Anneal	423.45	417.72	-5.7295
9300	0	CORRELATION	431.06	431.56	0.5023
9400	0	CORRELATION	431.25	430.53	-0.7143
9500	0	CORRELATION	427.6	426.45	-1.152
9600	0	CORRELATION	427.32	426.44	-0.8871
9700	0	CORRELATION	427.82	427.13	-0.6913

Test Statistics (ohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	427.32	429.01	431.25	1.9644	426.44	428.42	431.56	2.4392	-1.152	-0.58848	0.5023	0.63697
3	426.29	429.53	432.82	2.5228	422.85	426.08	429.25	1.7508	-6.5514	-3.4497	1.1869	3.0927
10	427.06	429.8	433.53	2.4159	422.25	423.94	425.73	1.2655	-11.162	-5.8657	-2.5197	2.8708
20	426.16	429.35	434.55	2.6023	422.98	425.46	431.12	2.4749	-5.0221	-3.8828	-3.1799	0.57621
30	427.79	430.85	435.98	2.749	423.7	426.12	430.54	2.335	-5.5161	-4.7356	-3.8492	0.62802
50	427.38	429.55	430.67	1.1193	421.78	423.95	426.34	1.5482	-7.0479	-5.6045	-3.2921	1.3959
100	421.04	423.92	426.01	1.7327	417.72	419.47	423.11	1.9165	-6.4145	-4.4505	-2.6878	1.5939

Device Test: 22.20 TIMING|STARTUP/SS_TR/12////@T_SS_22NF





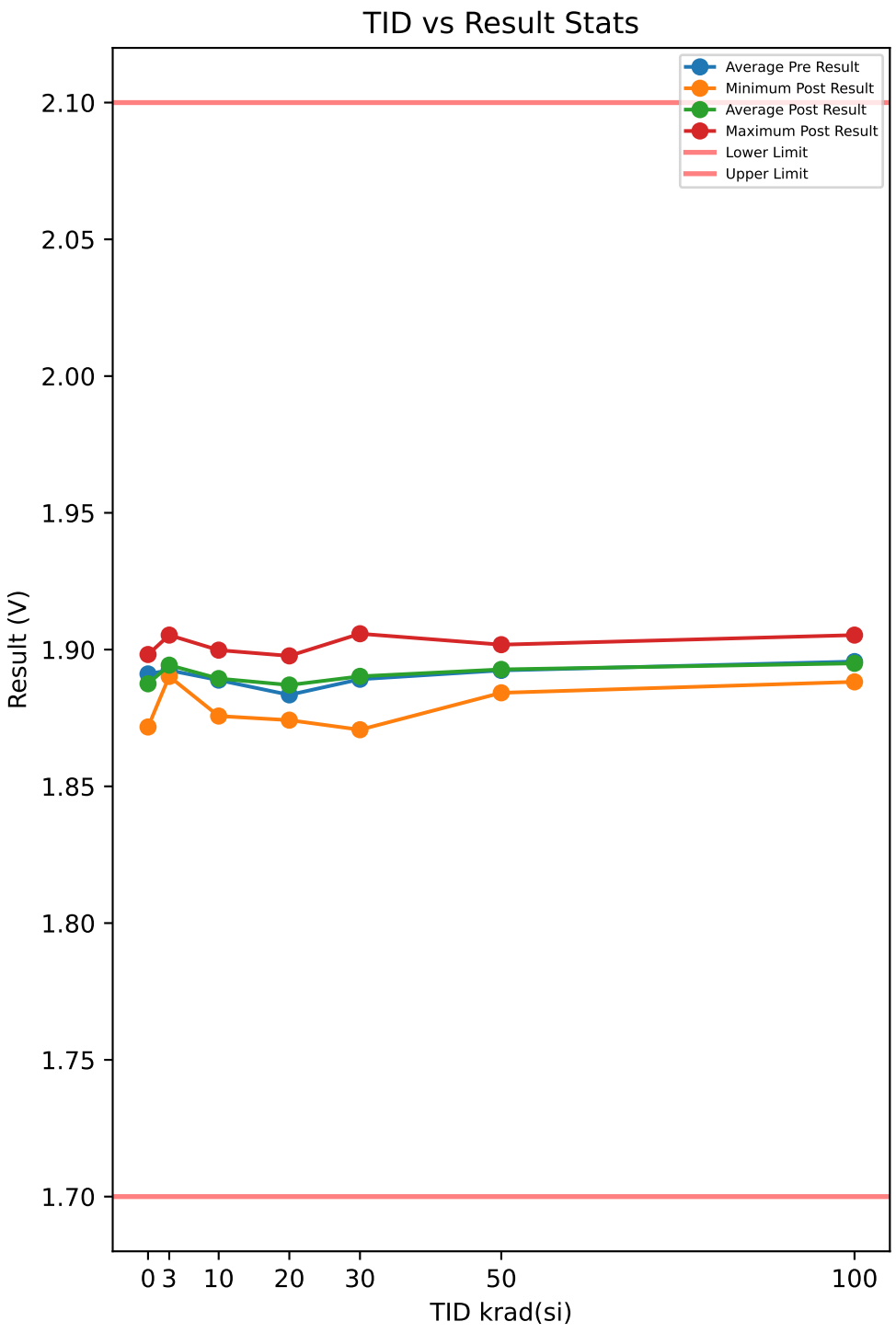
Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	5.8873	5.8873	0
51	3	Biased	5.9673	5.8073	-0.16
52	3	Biased	5.9673	5.8073	-0.16
53	3	Biased	5.8473	5.9273	0.08
54	3	Biased	5.8873	5.8873	0
55	3	Unbiased	5.8873	5.8073	-0.08
56	3	Unbiased	5.8473	5.9673	0.12
57	3	Unbiased	5.8073	5.8873	0.08
58	3	Unbiased	5.8473	5.8473	0
59	3	Unbiased	5.8873	5.8473	-0.04
60	10	Biased	5.8873	5.7673	-0.12
61	10	Biased	5.8473	5.8473	0
62	10	Biased	5.8873	5.8073	-0.08
63	10	Biased	5.8873	5.8473	-0.04
64	10	Biased	5.9273	5.8473	-0.08
65	10	Unbiased	5.8073	5.8473	0.04
66	10	Unbiased	5.8473	5.7673	-0.08
67	10	Unbiased	5.8873	5.8873	0
68	10	Unbiased	5.8473	5.8073	-0.04
69	10	Unbiased	5.9273	5.8073	-0.12
100	20	Biased	5.8473	5.8473	0
200	20	Biased	5.8873	5.8073	-0.08
300	20	Biased	5.8873	5.9273	0.04
400	20	Biased	5.9273	5.9273	0
500	20	Biased	5.8873	5.9273	0.04
600	20	Unbiased	5.8073	5.8073	0
700	20	Unbiased	5.8473	5.8473	0
800	20	Unbiased	5.9273	5.8473	-0.08
900	20	Unbiased	5.8473	5.8473	0
1000	20	Unbiased	5.9273	5.9273	0
1100	30	Biased	5.8873	5.8873	0
1200	30	Biased	5.8873	5.8473	-0.04
1300	30	Biased	5.8073	5.8873	0.08
1400	30	Biased	5.9273	5.8473	-0.08
1500	30	Biased	5.9273	5.9673	0.04
1600	30	Unbiased	5.9273	5.9273	0
1700	30	Unbiased	5.8473	5.8473	0
1800	30	Unbiased	5.9273	5.8873	-0.04
1900	30	Unbiased	5.8473	5.7673	-0.08
2000	30	Unbiased	5.8873	5.8473	-0.04
2100	50	Biased-84Hr-Anneal	5.8873	5.8873	0
2200	50	Biased-84Hr-Anneal	5.8873	5.9273	0.04
2300	50	Biased-84Hr-Anneal	5.8473	5.9673	0.12
2400	50	Biased-84Hr-Anneal	5.8873	5.8473	-0.04
2500	50	Biased-84Hr-Anneal	5.8873	5.9273	0.04
2600	50	Unbiased	5.8873	5.8073	-0.08
2700	50	Unbiased	5.8873	5.8073	-0.08
2800	50	Unbiased	5.9273	5.9273	0
2900	50	Unbiased	5.8873	5.9273	0.04
3000	50	Unbiased	5.8873	5.8873	0
4000	100	Biased-168Hr-Anneal	5.8873	6.0073	0.12
4100	100	Biased-168Hr-Anneal	5.8873	5.8073	-0.08
4200	100	Biased-168Hr-Anneal	5.7673	5.8073	0.04
4300	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4400	100	Biased-168Hr-Anneal	5.8473	5.8073	-0.04
4500	100	Unbiased-168Hr-Anneal	5.8473	5.8873	0.04
4600	100	Unbiased-168Hr-Anneal	5.8473	5.8073	-0.04
4700	100	Unbiased-168Hr-Anneal	5.8873	5.8873	0
4800	100	Unbiased-168Hr-Anneal	5.8473	5.8473	0
4900	100	Unbiased-168Hr-Anneal	5.8873	5.7673	-0.12
9300	0	CORRELATION	5.8473	5.8873	0.04
9400	0	CORRELATION	5.9673	5.9673	0
9500	0	CORRELATION	5.8073	5.8473	0.04
9600	0	CORRELATION	5.8873	5.9273	0.04
9700	0	CORRELATION	5.8473	5.8473	0

Test Statistics (ms)

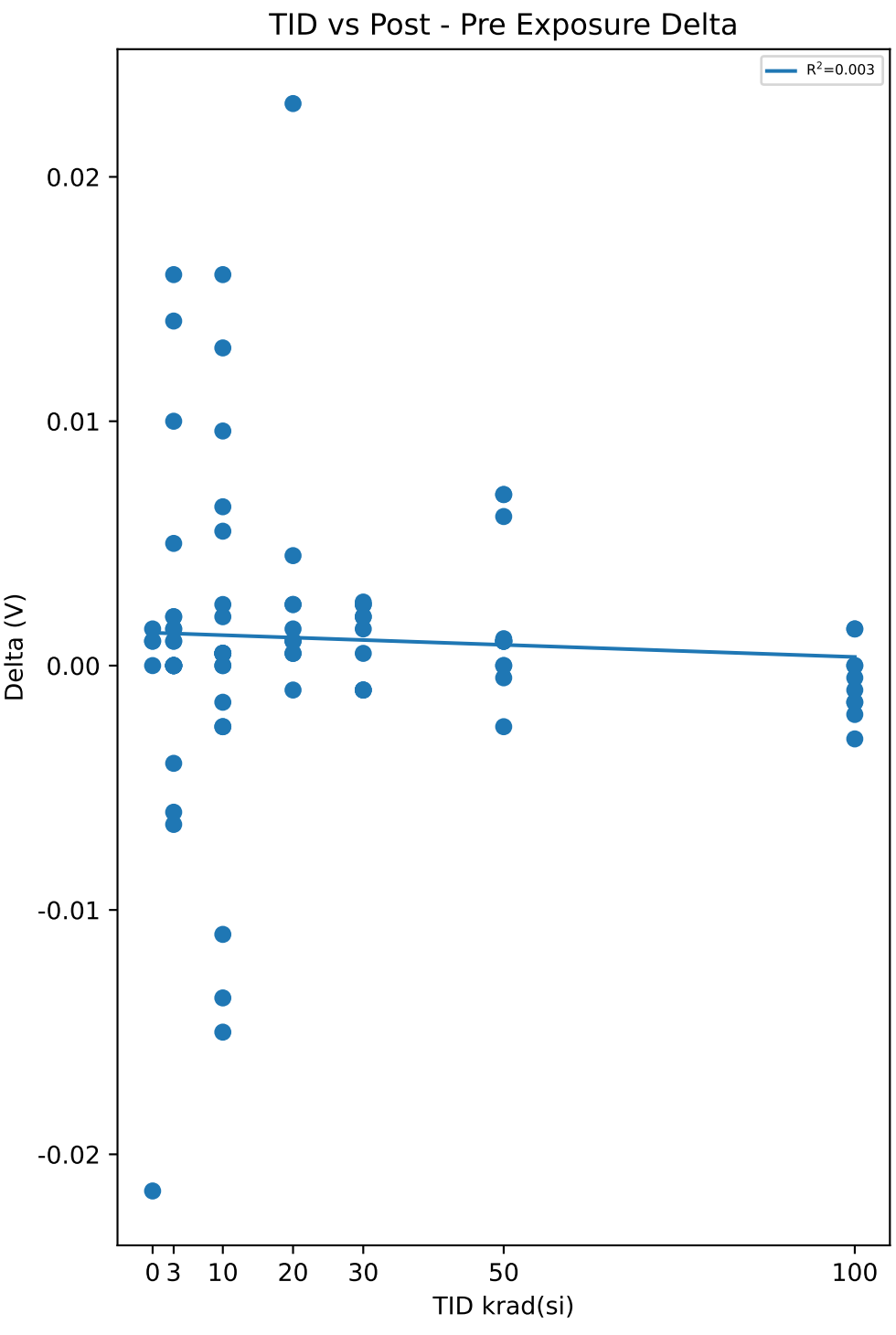
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.8073	5.8713	5.9673	0.060663	5.8473	5.8953	5.9673	0.052154	0	0.024	0.04	0.021909
3	5.8073	5.8833	5.9673	0.051467	5.8073	5.8673	5.9673	0.05416	-0.16	-0.016	0.12	0.096517
10	5.8073	5.8753	5.9273	0.037947	5.7673	5.8233	5.8873	0.038644	-0.12	-0.052	0.04	0.0535
20	5.8073	5.8793	5.9273	0.041312	5.8073	5.8713	5.9273	0.050596	-0.08	-0.008	0.04	0.041312
30	5.8073	5.8873	5.9273	0.042164	5.7673	5.8713	5.9673	0.053996	-0.08	-0.016	0.08	0.050596
50	5.8473	5.8873	5.9273	0.018856	5.8073	5.8913	5.9673	0.054813	-0.08	0.004	0.12	0.060955
100	5.7673	5.8513	5.8873	0.039777	5.7673	5.8433	6.0073	0.069154	-0.12	-0.008	0.12	0.067462

Device Test: 22.23 LEVEL|RISE/COMP/14////@COMP_SHDN



Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

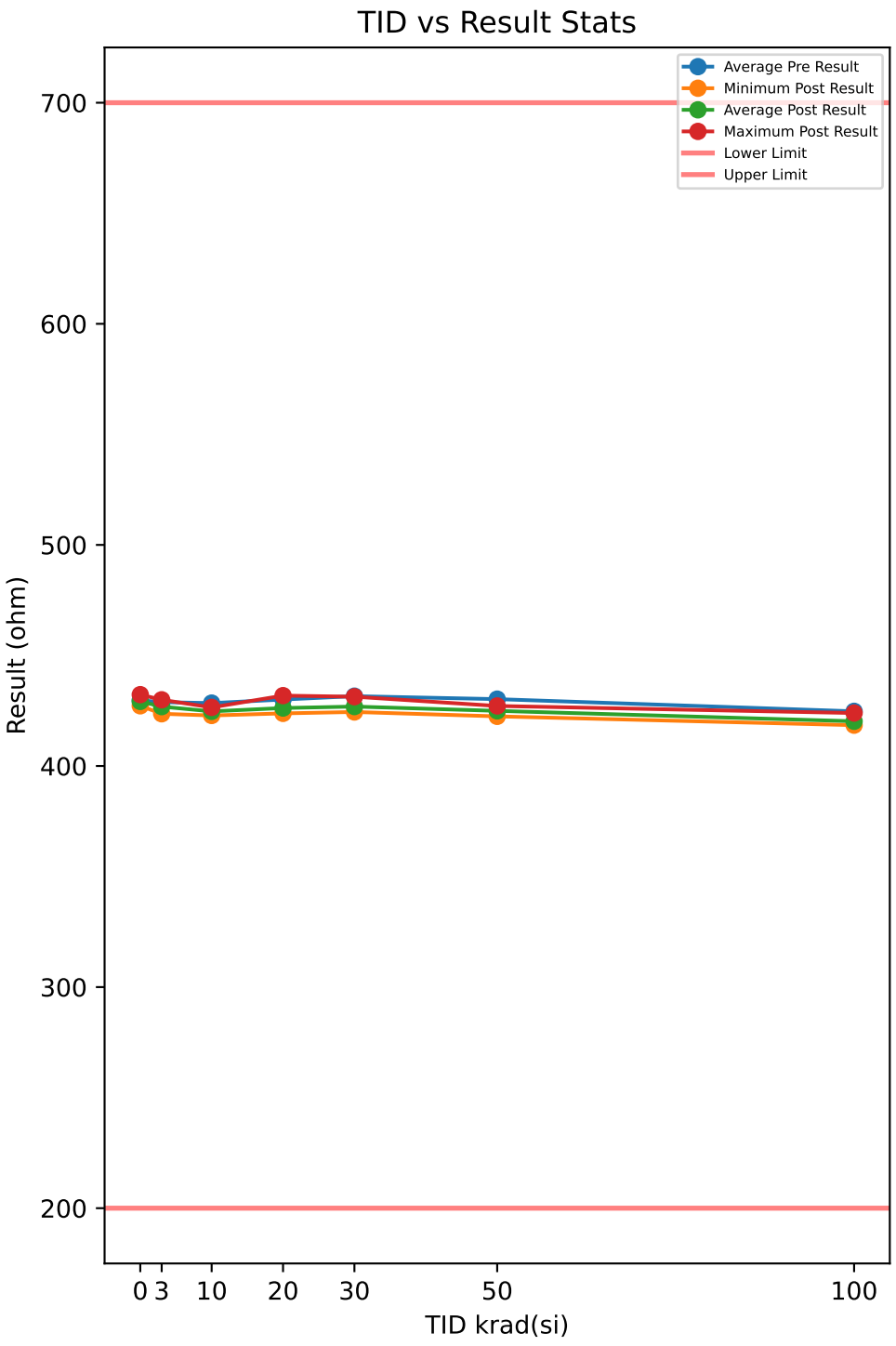
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.8927	1.8977	0.005
51	3	Biased	1.8947	1.8947	0
52	3	Biased	1.8957	1.8917	-0.004
53	3	Biased	1.8912	1.9053	0.0141
54	3	Biased	1.8927	1.8937	0.001
55	3	Unbiased	1.8902	1.8922	0.002
56	3	Unbiased	1.8962	1.8902	-0.006
57	3	Unbiased	1.8852	1.8952	0.01
58	3	Unbiased	1.8972	1.8907	-0.0065
59	3	Unbiased	1.8757	1.8917	0.016
60	10	Biased	1.8902	1.8907	0.0005
61	10	Biased	1.9053	1.8917	-0.0136
62	10	Biased	1.8907	1.8757	-0.015
63	10	Biased	1.8727	1.8857	0.013
64	10	Biased	1.8872	1.8927	0.0055
65	10	Unbiased	1.8827	1.8892	0.0065
66	10	Unbiased	1.8902	1.8998	0.0096
67	10	Unbiased	1.8942	1.8832	-0.011
68	10	Unbiased	1.8822	1.8982	0.016
69	10	Unbiased	1.8867	1.8872	0.0005
100	20	Biased	1.8707	1.8937	0.023
200	20	Biased	1.8832	1.8837	0.0005
300	20	Biased	1.8732	1.8742	0.001
400	20	Biased	1.8962	1.8972	0.001
500	20	Biased	1.8717	1.8742	0.0025
600	20	Unbiased	1.8932	1.8977	0.0045
700	20	Unbiased	1.8762	1.8777	0.0015
800	20	Unbiased	1.8917	1.8907	-0.001
900	20	Unbiased	1.8887	1.8912	0.0025
1000	20	Unbiased	1.8897	1.8902	0.0005
1100	30	Biased	1.8882	1.8902	0.002
1200	30	Biased	1.8882	1.8872	-0.001
1300	30	Biased	1.9007	1.9033	0.0026
1400	30	Biased	1.8897	1.8887	-0.001
1500	30	Biased	1.8977	1.9002	0.0025
1600	30	Unbiased	1.9068	1.9058	-0.001
1700	30	Unbiased	1.8787	1.8812	0.0025
1800	30	Unbiased	1.8702	1.8707	0.0005
1900	30	Unbiased	1.8797	1.8812	0.0015
2000	30	Unbiased	1.8917	1.8937	0.002
2100	50	Biased-84Hr-Anneal	1.8862	1.8932	0.007
2200	50	Biased-84Hr-Anneal	1.8912	1.8922	0.001
2300	50	Biased-84Hr-Anneal	1.8982	1.8982	0
2400	50	Biased-84Hr-Anneal	1.8907	1.8917	0.001
2500	50	Biased-84Hr-Anneal	1.8832	1.8842	0.001
2600	50	Unbiased	1.8977	1.8972	-0.0005
2700	50	Unbiased	1.8942	1.8942	0
2800	50	Unbiased	1.9007	1.9018	0.0011
2900	50	Unbiased	1.8887	1.8862	-0.0025
3000	50	Unbiased	1.8932	1.8993	0.0061
4000	100	Biased-168Hr-Anneal	1.8947	1.8917	-0.003
4100	100	Biased-168Hr-Anneal	1.8902	1.8887	-0.0015
4200	100	Biased-168Hr-Anneal	1.8922	1.8937	0.0015
4300	100	Biased-168Hr-Anneal	1.9013	1.8998	-0.0015
4400	100	Biased-168Hr-Anneal	1.8942	1.8942	0
4500	100	Unbiased-168Hr-Anneal	1.9002	1.8982	-0.002
4600	100	Unbiased-168Hr-Anneal	1.8937	1.8927	-0.001
4700	100	Unbiased-168Hr-Anneal	1.8867	1.8882	0.0015
4800	100	Unbiased-168Hr-Anneal	1.8977	1.8972	-0.0005
4900	100	Unbiased-168Hr-Anneal	1.9053	1.9053	0
9300	0	CORRELATION	1.8932	1.8717	-0.0215
9400	0	CORRELATION	1.8812	1.8822	0.001
9500	0	CORRELATION	1.8907	1.8907	0
9600	0	CORRELATION	1.8932	1.8947	0.0015
9700	0	CORRELATION	1.8972	1.8982	0.001

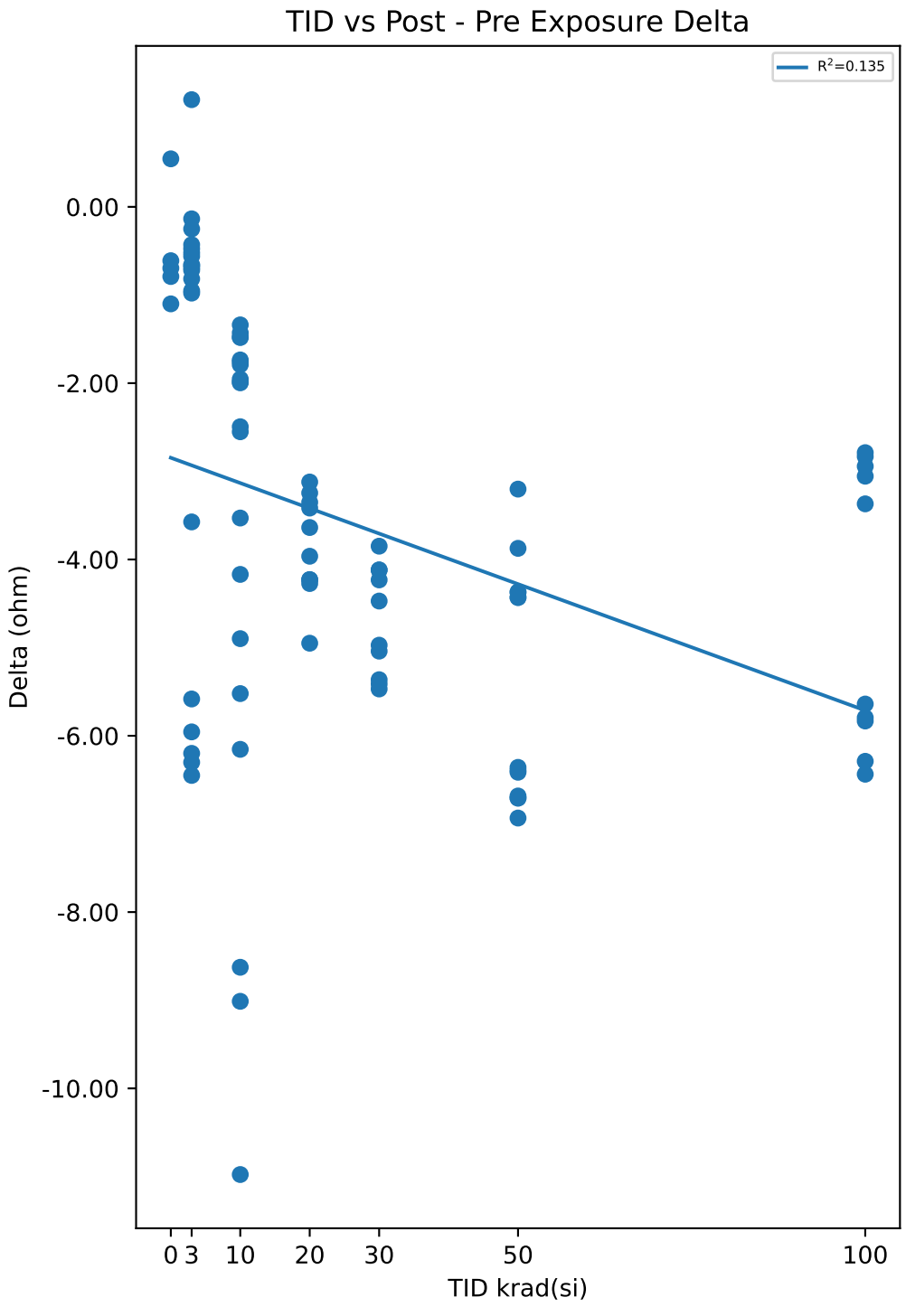


Test Statistics (V)

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	1.8812	1.8911	1.8972	0.0060042	1.8717	1.8875	1.8982	0.010657	-0.0215	-0.0036	0.0015	0.010021
3	1.8757	1.8912	1.8972	0.0064569	1.8902	1.8943	1.9053	0.0044918	-0.0065	0.00316	0.016	0.0080222
10	1.8727	1.8882	1.9053	0.0085141	1.8757	1.8894	1.8998	0.0070567	-0.015	0.0012	0.016	0.011089
20	1.8707	1.8834	1.8962	0.0097218	1.8742	1.887	1.8977	0.0090063	-0.001	0.0036	0.023	0.0069754
30	1.8702	1.8892	1.9068	0.010976	1.8707	1.8902	1.9058	0.010958	-0.001	0.00106	0.0026	0.0015465
50	1.8832	1.8924	1.9007	0.0055337	1.8842	1.8938	1.9018	0.0056033	-0.0025	0.00142	0.007	0.0029204
100	1.8867	1.8956	1.9053	0.0055623	1.8882	1.895	1.9053	0.0052561	-0.003	-0.00065	0.0015	0.0014539

Device Test: 22.24 LEVEL|SINK/SS_TR/14////@R_SS_DISCHARGE





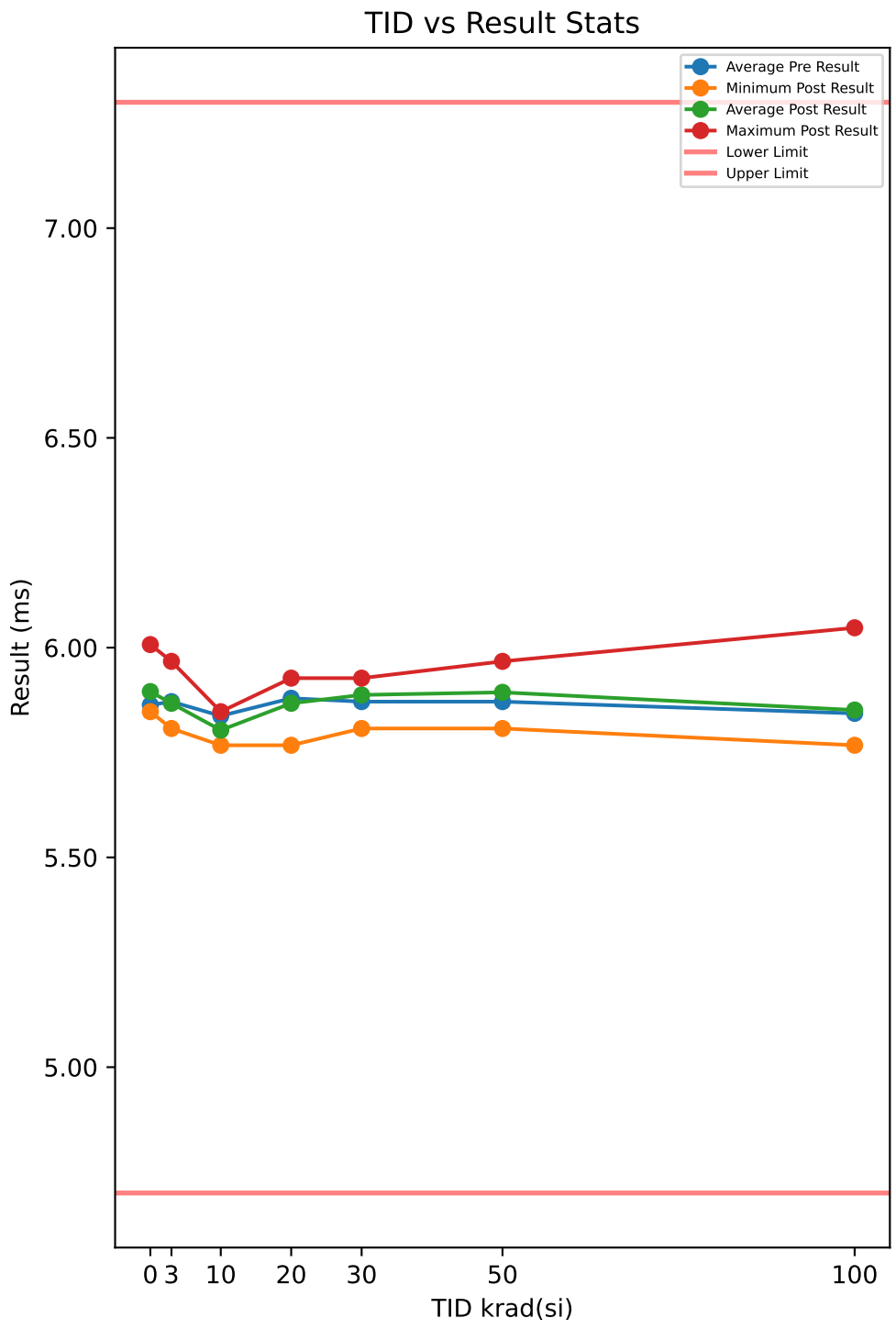
Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (ohm))

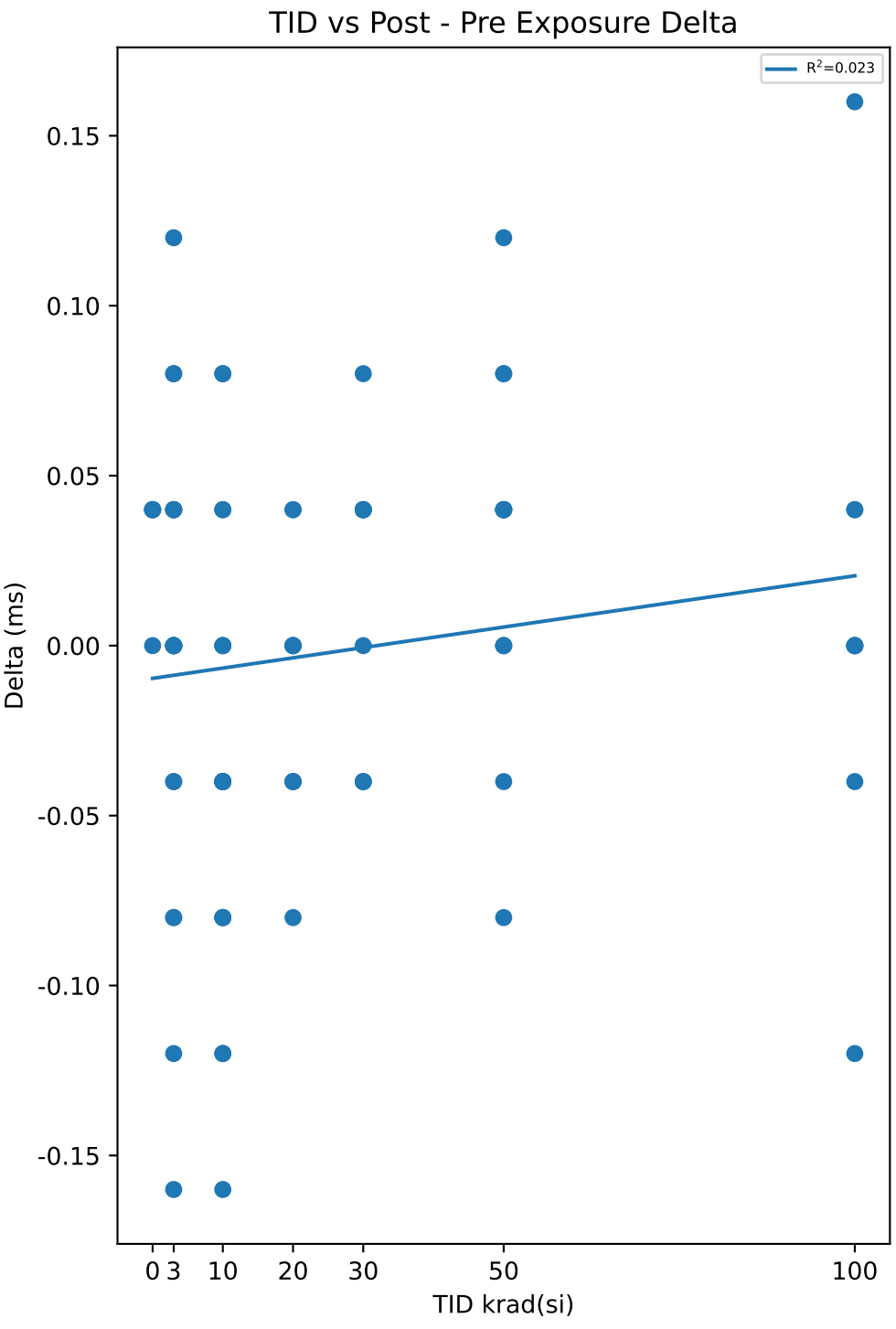
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	431.8	428.23	-3.574
51	3	Biased	433.48	427.18	-6.3015
52	3	Biased	426.97	426.84	-0.1358
53	3	Biased	433.02	427.44	-5.5825
54	3	Biased	428.73	429.95	1.216
55	3	Unbiased	429.82	423.62	-6.1996
56	3	Unbiased	427.89	427.22	-0.6649
57	3	Unbiased	433.01	426.56	-6.4497
58	3	Unbiased	426.98	426.73	-0.2507
59	3	Unbiased	430.71	424.76	-5.9558
60	10	Biased	431.48	422.85	-8.6261
61	10	Biased	428.48	424.95	-3.5299
62	10	Biased	428.13	423.23	-4.8982
63	10	Biased	431.63	426.11	-5.5215
64	10	Biased	427.77	425.22	-2.5514
65	10	Unbiased	434.16	423.19	-10.977
66	10	Unbiased	428.42	424.25	-4.1694
67	10	Unbiased	429	426.51	-2.4941
68	10	Unbiased	433.93	424.92	-9.0122
69	10	Unbiased	432	425.84	-6.1539
100	20	Biased	433.13	428.18	-4.9499
200	20	Biased	429.99	426.64	-3.3515
300	20	Biased	435.25	431.83	-3.4168
400	20	Biased	426.92	423.8	-3.1213
500	20	Biased	427.8	424.56	-3.2453
600	20	Unbiased	428.21	423.98	-4.2294
700	20	Unbiased	431.81	427.54	-4.2728
800	20	Unbiased	429.63	425.67	-3.9634
900	20	Unbiased	428.82	424.59	-4.2281
1000	20	Unbiased	429.02	425.38	-3.6375
1100	30	Biased	432.82	428.35	-4.4717
1200	30	Biased	428.55	424.43	-4.1191
1300	30	Biased	428.73	424.5	-4.2319
1400	30	Biased	432.34	428.22	-4.1194
1500	30	Biased	429.08	425.23	-3.8492
1600	30	Unbiased	430.02	424.98	-5.0398
1700	30	Unbiased	433.85	428.38	-5.4689
1800	30	Unbiased	436.74	431.33	-5.4123
1900	30	Unbiased	433.93	428.56	-5.3639
2000	30	Unbiased	429.82	424.85	-4.9723
2100	50	Biased-84Hr-Anneal	430.88	424.17	-6.7067
2200	50	Biased-84Hr-Anneal	428.07	424.87	-3.2018
2300	50	Biased-84Hr-Anneal	430.84	426.47	-4.3678
2400	50	Biased-84Hr-Anneal	430.83	426.46	-4.3734
2500	50	Biased-84Hr-Anneal	431.03	427.16	-3.8738
2600	50	Unbiased	429.4	423.01	-6.3929
2700	50	Unbiased	430.1	423.42	-6.6831
2800	50	Unbiased	428.81	422.45	-6.3585
2900	50	Unbiased	431.09	424.15	-6.9332
3000	50	Unbiased	431.38	424.96	-6.4137
4000	100	Biased-168Hr-Anneal	422.1	419.31	-2.7883
4100	100	Biased-168Hr-Anneal	423.91	420.86	-3.0555
4200	100	Biased-168Hr-Anneal	421.78	418.95	-2.832
4300	100	Biased-168Hr-Anneal	426.89	423.95	-2.9432
4400	100	Biased-168Hr-Anneal	426.73	423.36	-3.3691
4500	100	Unbiased-168Hr-Anneal	425.45	419.81	-5.64
4600	100	Unbiased-168Hr-Anneal	425.66	419.37	-6.2895
4700	100	Unbiased-168Hr-Anneal	425.46	419.63	-5.8325
4800	100	Unbiased-168Hr-Anneal	425.07	418.64	-6.4361
4900	100	Unbiased-168Hr-Anneal	424.26	418.47	-5.7943
9300	0	CORRELATION	431.73	432.28	0.5448
9400	0	CORRELATION	432.01	431.31	-0.6953
9500	0	CORRELATION	428.32	427.22	-1.1004
9600	0	CORRELATION	428.06	427.27	-0.7902
9700	0	CORRELATION	428.57	427.96	-0.6108

Test Statistics (ohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	428.06	429.74	432.01	1.9578	427.22	429.21	432.28	2.4048	-1.1004	-0.53038	0.5448	0.62891
3	426.97	430.24	433.48	2.5357	423.62	426.85	429.95	1.7319	-6.4497	-3.3898	1.216	3.0956
10	427.77	430.5	434.16	2.4358	422.85	424.71	426.51	1.2902	-10.977	-5.7934	-2.4941	2.8948
20	426.92	430.06	435.25	2.5954	423.8	426.22	431.83	2.4623	-4.9499	-3.8416	-3.1213	0.58363
30	428.55	431.59	436.74	2.759	424.43	426.88	431.33	2.3799	-5.4689	-4.7048	-3.8492	0.61449
50	428.07	430.24	431.38	1.1166	422.45	424.71	427.16	1.5802	-6.9332	-5.5305	-3.2018	1.4042
100	421.78	424.73	426.89	1.7384	418.47	420.23	423.95	1.927	-6.4361	-4.4981	-2.7883	1.6056

Device Test: 22.27 TIMING|STARTUP/SS_TR/14////@T_SS_22NF





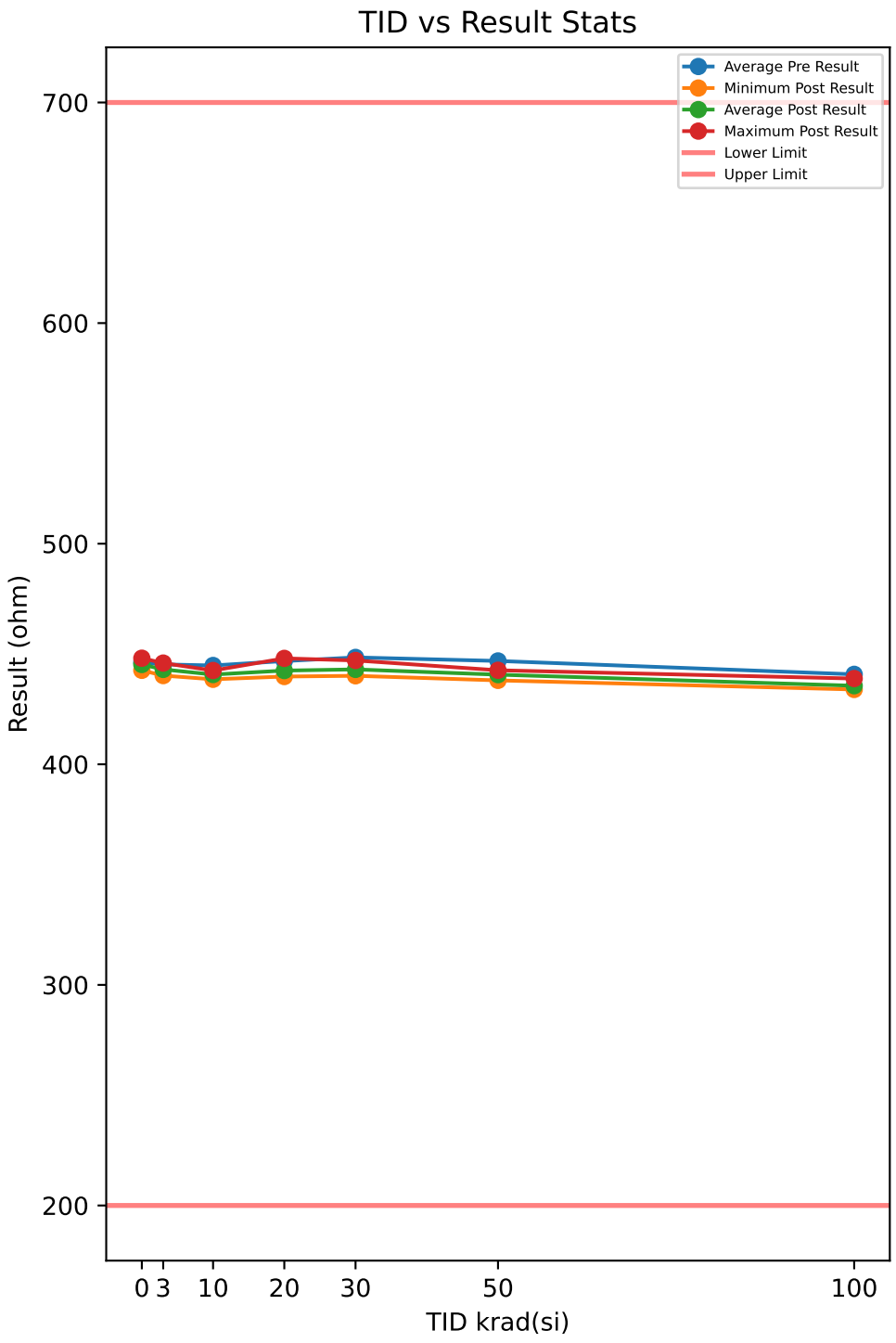
Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

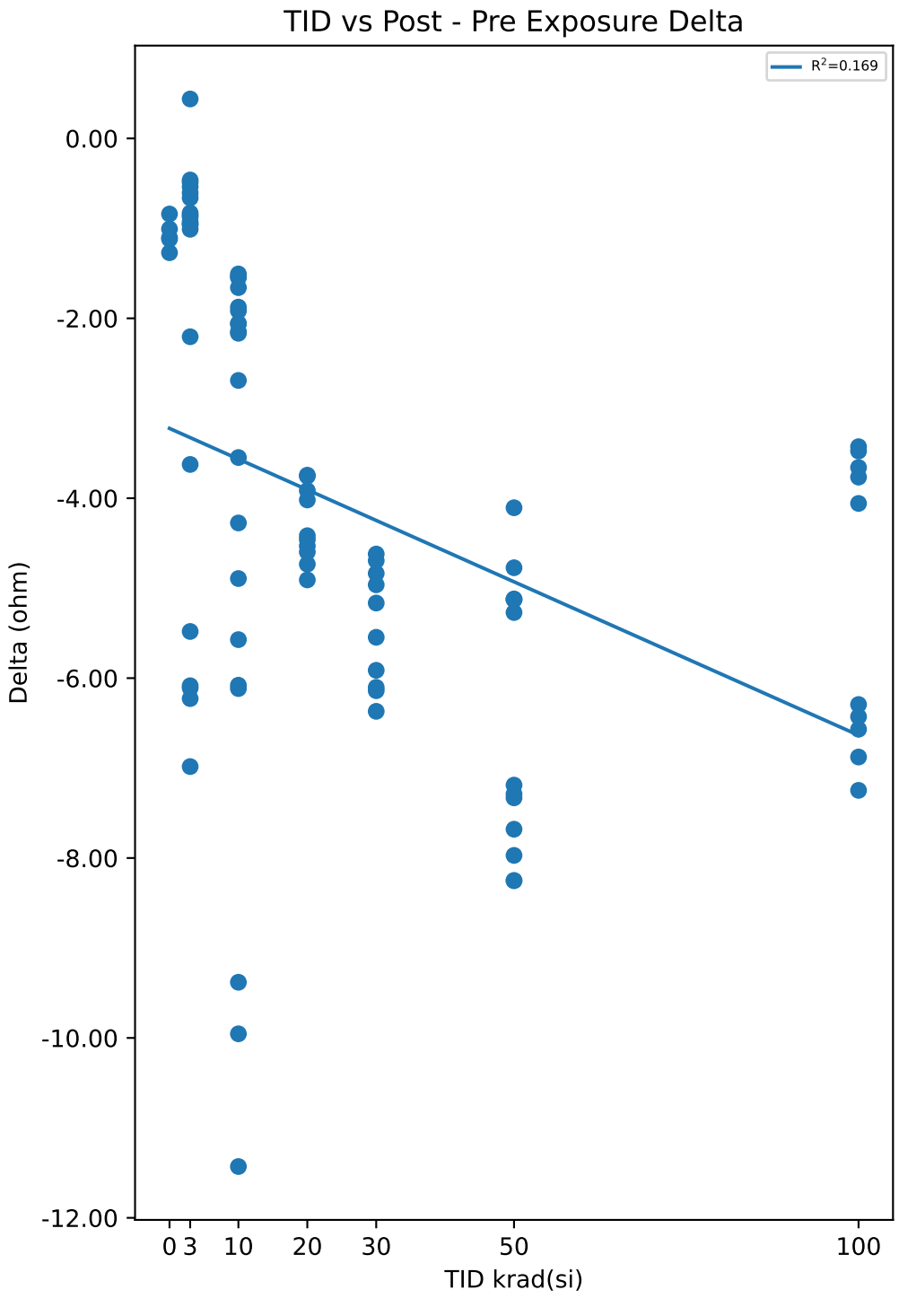
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	5.8873	5.8873	0
51	3	Biased	5.9673	5.8073	-0.16
52	3	Biased	5.9673	5.8473	-0.12
53	3	Biased	5.8473	5.9273	0.08
54	3	Biased	5.8873	5.8873	0
55	3	Unbiased	5.8873	5.8073	-0.08
56	3	Unbiased	5.8473	5.9673	0.12
57	3	Unbiased	5.8073	5.8873	0.08
58	3	Unbiased	5.8473	5.8473	0
59	3	Unbiased	5.8873	5.8073	-0.08
60	10	Biased	5.8873	5.7673	-0.12
61	10	Biased	5.8473	5.8473	0
62	10	Biased	5.8873	5.8073	-0.08
63	10	Biased	5.8873	5.8473	-0.04
64	10	Biased	5.9273	5.7673	-0.16
65	10	Unbiased	5.8073	5.7673	-0.04
66	10	Unbiased	5.8473	5.8073	-0.04
67	10	Unbiased	5.9273	5.8473	-0.08
68	10	Unbiased	5.8873	5.8073	-0.08
69	10	Unbiased	5.8873	5.7673	-0.12
100	20	Biased	5.8473	5.8473	0
200	20	Biased	5.8873	5.8073	-0.08
300	20	Biased	5.8873	5.9273	0.04
400	20	Biased	5.9673	5.9273	-0.04
500	20	Biased	5.8873	5.9273	0.04
600	20	Unbiased	5.8073	5.7673	-0.04
700	20	Unbiased	5.8473	5.8473	0
800	20	Unbiased	5.8873	5.8473	-0.04
900	20	Unbiased	5.8473	5.8473	0
1000	20	Unbiased	5.9273	5.9273	0
1100	30	Biased	5.8873	5.9273	0.04
1200	30	Biased	5.8873	5.9273	0.04
1300	30	Biased	5.8073	5.8873	0.08
1400	30	Biased	5.8873	5.8473	-0.04
1500	30	Biased	5.9273	5.9273	0
1600	30	Unbiased	5.8873	5.9273	0.04
1700	30	Unbiased	5.8073	5.8473	0.04
1800	30	Unbiased	5.8873	5.9273	0.04
1900	30	Unbiased	5.8473	5.8073	-0.04
2000	30	Unbiased	5.8873	5.8473	-0.04
2100	50	Biased-84Hr-Anneal	5.8473	5.8873	0.04
2200	50	Biased-84Hr-Anneal	5.8473	5.9273	0.08
2300	50	Biased-84Hr-Anneal	5.8473	5.9673	0.12
2400	50	Biased-84Hr-Anneal	5.8873	5.8873	0
2500	50	Biased-84Hr-Anneal	5.8473	5.9273	0.08
2600	50	Unbiased	5.8873	5.8073	-0.08
2700	50	Unbiased	5.8473	5.8073	-0.04
2800	50	Unbiased	5.9273	5.9273	0
2900	50	Unbiased	5.8873	5.9273	0.04
3000	50	Unbiased	5.8873	5.8873	0
4000	100	Biased-168Hr-Anneal	5.8873	6.0473	0.16
4100	100	Biased-168Hr-Anneal	5.8873	5.8473	-0.04
4200	100	Biased-168Hr-Anneal	5.7673	5.8073	0.04
4300	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4400	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4500	100	Unbiased-168Hr-Anneal	5.8473	5.8873	0.04
4600	100	Unbiased-168Hr-Anneal	5.8073	5.8073	0
4700	100	Unbiased-168Hr-Anneal	5.8873	5.8873	0
4800	100	Unbiased-168Hr-Anneal	5.8473	5.8473	0
4900	100	Unbiased-168Hr-Anneal	5.8873	5.7673	-0.12
9300	0	CORRELATION	5.8473	5.8473	0
9400	0	CORRELATION	5.9673	6.0073	0.04
9500	0	CORRELATION	5.8073	5.8473	0.04
9600	0	CORRELATION	5.8873	5.9273	0.04
9700	0	CORRELATION	5.8073	5.8473	0.04

Test Statistics (ms)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.8073	5.8633	5.9673	0.066933	5.8473	5.8953	6.0073	0.071554	0	0.032	0.04	0.017889
3	5.8073	5.8833	5.9673	0.051467	5.8073	5.8673	5.9673	0.05416	-0.16	-0.016	0.12	0.09276
10	5.8073	5.8793	5.9273	0.036757	5.7673	5.8033	5.8473	0.035024	-0.16	-0.076	0	0.047889
20	5.8073	5.8793	5.9673	0.045412	5.7673	5.8673	5.9273	0.057349	-0.08	-0.012	0.04	0.037947
30	5.8073	5.8713	5.9273	0.038644	5.8073	5.8873	5.9273	0.046188	-0.04	0.016	0.08	0.042999
50	5.8473	5.8713	5.9273	0.027968	5.8073	5.8953	5.9673	0.052662	-0.08	0.024	0.12	0.060222
100	5.7673	5.8433	5.8873	0.04402	5.7673	5.8513	6.0473	0.078768	-0.12	0.008	0.16	0.070048

Device Test: 22.3 LEVEL|SINK/SS_TR/4.5////@R_SS_DISCHARGE





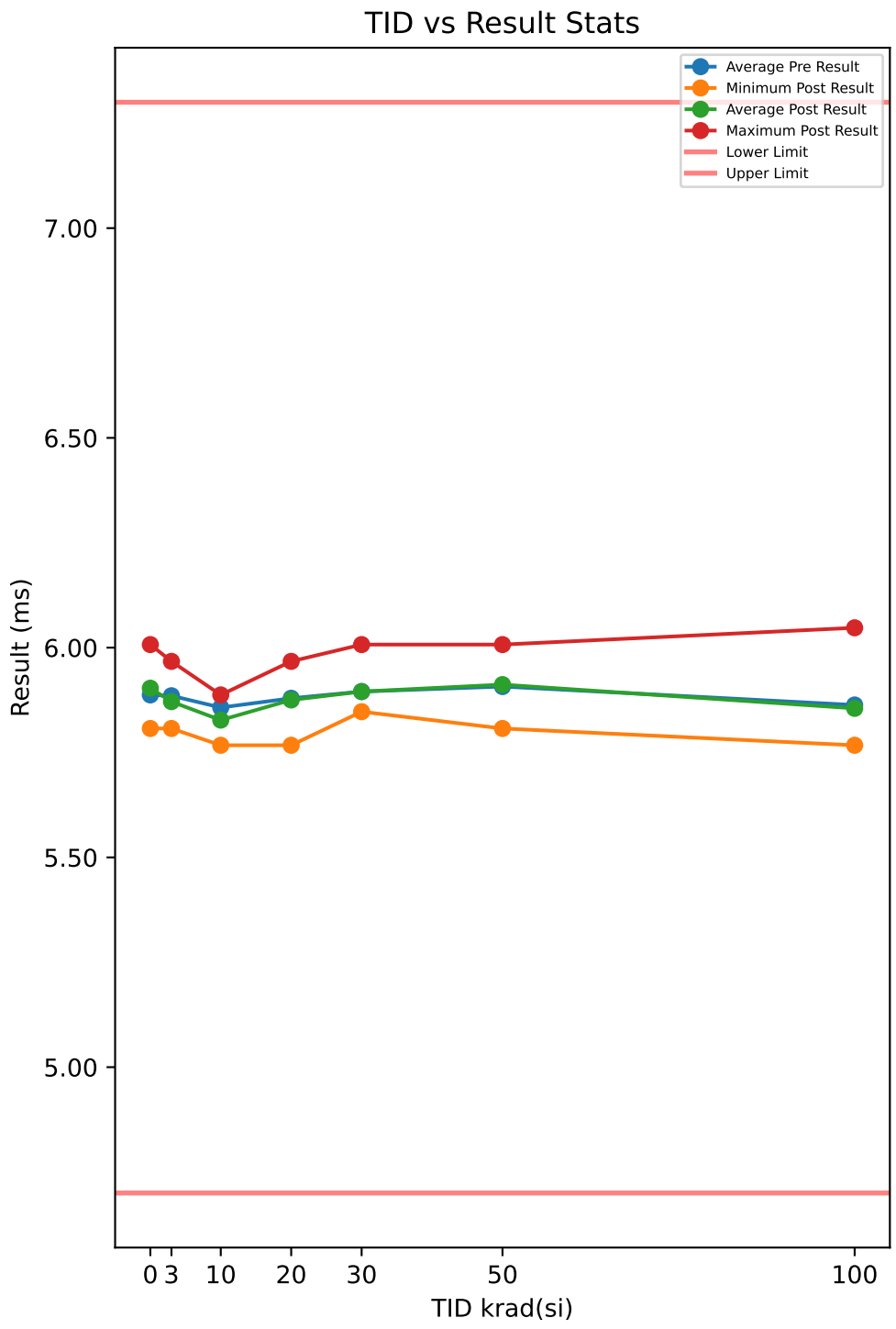
Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (ohm))

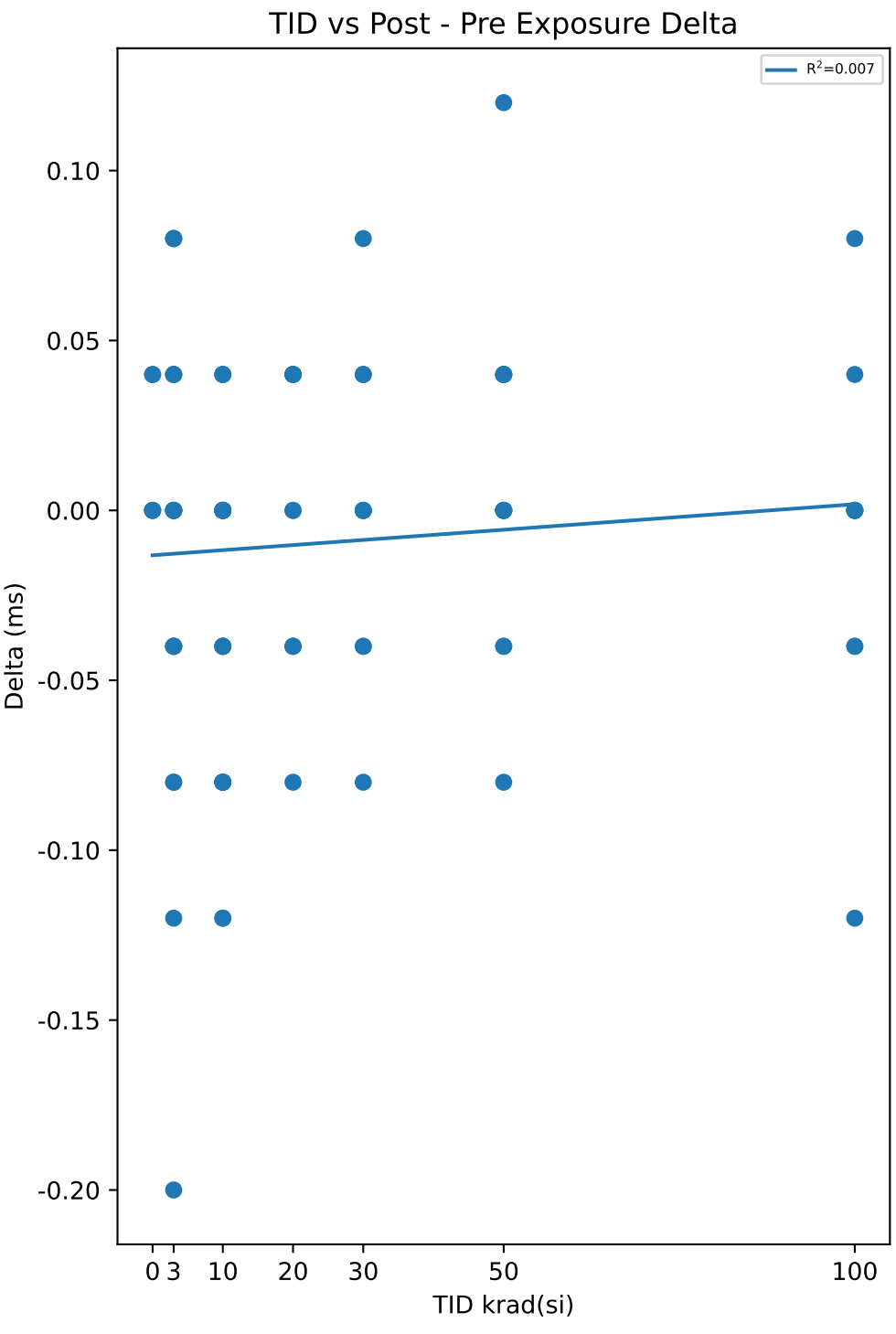
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	448.16	444.53	-3.6244
51	3	Biased	449.54	443.45	-6.0848
52	3	Biased	443.34	442.33	-1.01
53	3	Biased	450.2	443.22	-6.9834
54	3	Biased	445.45	445.89	0.4385
55	3	Unbiased	446.44	440.21	-6.2275
56	3	Unbiased	445.16	442.95	-2.2047
57	3	Unbiased	449.54	443.43	-6.1106
58	3	Unbiased	443.31	442.38	-0.9263
59	3	Unbiased	447.15	441.67	-5.4813
60	10	Biased	447.9	438.52	-9.3812
61	10	Biased	445.54	440.64	-4.8929
62	10	Biased	444.75	440.47	-4.2749
63	10	Biased	448.08	442.51	-5.5721
64	10	Biased	444.21	440.66	-3.5475
65	10	Unbiased	450.14	438.71	-11.43
66	10	Unbiased	445.65	439.57	-6.0788
67	10	Unbiased	445.2	442.5	-2.6906
68	10	Unbiased	450.96	441	-9.9542
69	10	Unbiased	448.3	442.19	-6.1161
100	20	Biased	449.24	444.71	-4.5311
200	20	Biased	446.68	442.77	-3.9151
300	20	Biased	452.03	448.01	-4.0191
400	20	Biased	443.53	439.78	-3.7547
500	20	Biased	445.34	441.59	-3.7438
600	20	Unbiased	445.24	440.64	-4.5979
700	20	Unbiased	448.61	443.87	-4.733
800	20	Unbiased	446.08	441.62	-4.4604
900	20	Unbiased	445.73	440.83	-4.908
1000	20	Unbiased	445.44	441.03	-4.4168
1100	30	Biased	449.86	444.7	-5.1652
1200	30	Biased	444.81	440.11	-4.694
1300	30	Biased	445.62	440.66	-4.9624
1400	30	Biased	449.04	444.2	-4.8353
1500	30	Biased	445.8	441.18	-4.6204
1600	30	Unbiased	446.63	440.71	-5.9132
1700	30	Unbiased	451.17	444.8	-6.3691
1800	30	Unbiased	453.17	447.07	-6.1027
1900	30	Unbiased	451.26	445.12	-6.1396
2000	30	Unbiased	447.12	441.58	-5.5461
2100	50	Biased-84Hr-Anneal	447.75	439.5	-8.251
2200	50	Biased-84Hr-Anneal	444.95	440.84	-4.1059
2300	50	Biased-84Hr-Anneal	447.36	442.09	-5.2707
2400	50	Biased-84Hr-Anneal	447.7	442.58	-5.1199
2500	50	Biased-84Hr-Anneal	447.38	442.6	-4.7729
2600	50	Unbiased	445.84	438.51	-7.3309
2700	50	Unbiased	446.94	439.26	-7.6798
2800	50	Unbiased	445.22	438.03	-7.1894
2900	50	Unbiased	447.55	439.58	-7.9708
3000	50	Unbiased	447.77	440.48	-7.2878
4000	100	Biased-168Hr-Anneal	438.38	434.9	-3.4756
4100	100	Biased-168Hr-Anneal	440.73	436.96	-3.7654
4200	100	Biased-168Hr-Anneal	437.5	434.08	-3.427
4300	100	Biased-168Hr-Anneal	442.52	438.87	-3.6585
4400	100	Biased-168Hr-Anneal	442.4	438.34	-4.0579
4500	100	Unbiased-168Hr-Anneal	441.87	435.44	-6.4286
4600	100	Unbiased-168Hr-Anneal	441.73	434.85	-6.8769
4700	100	Unbiased-168Hr-Anneal	441.07	434.5	-6.5683
4800	100	Unbiased-168Hr-Anneal	441.4	434.15	-7.2476
4900	100	Unbiased-168Hr-Anneal	440.21	433.92	-6.2934
9300	0	CORRELATION	448.93	448.09	-0.8402
9400	0	CORRELATION	448.63	447.63	-1.0066
9500	0	CORRELATION	444.9	443.63	-1.2706
9600	0	CORRELATION	443.7	442.59	-1.1026
9700	0	CORRELATION	445.33	444.21	-1.1189

Test Statistics (ohm)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	443.7	446.3	448.93	2.3468	442.59	445.23	448.09	2.4728	-1.2706	-1.0678	-0.8402	0.15851
3	443.31	446.83	450.2	2.5246	440.21	443.01	445.89	1.5455	-6.9834	-3.8214	0.4385	2.7078
10	444.21	447.07	450.96	2.3383	438.52	440.68	442.51	1.4486	-11.43	-6.3938	-2.6906	2.913
20	443.53	446.79	452.03	2.4795	439.78	442.48	448.01	2.4639	-4.908	-4.308	-3.7438	0.4179
30	444.81	448.45	453.17	2.8542	440.11	443.01	447.07	2.427	-6.3691	-5.4348	-4.6204	0.66033
50	444.95	446.85	447.77	1.0902	438.03	440.35	442.6	1.6542	-8.251	-6.4979	-4.1059	1.5106
100	437.5	440.78	442.52	1.6696	433.92	435.6	438.87	1.8126	-7.2476	-5.1799	-3.427	1.6136

Device Test: 22.6 TIMING|STARTUP/SS_TR/4.5////@T_SS_22NF





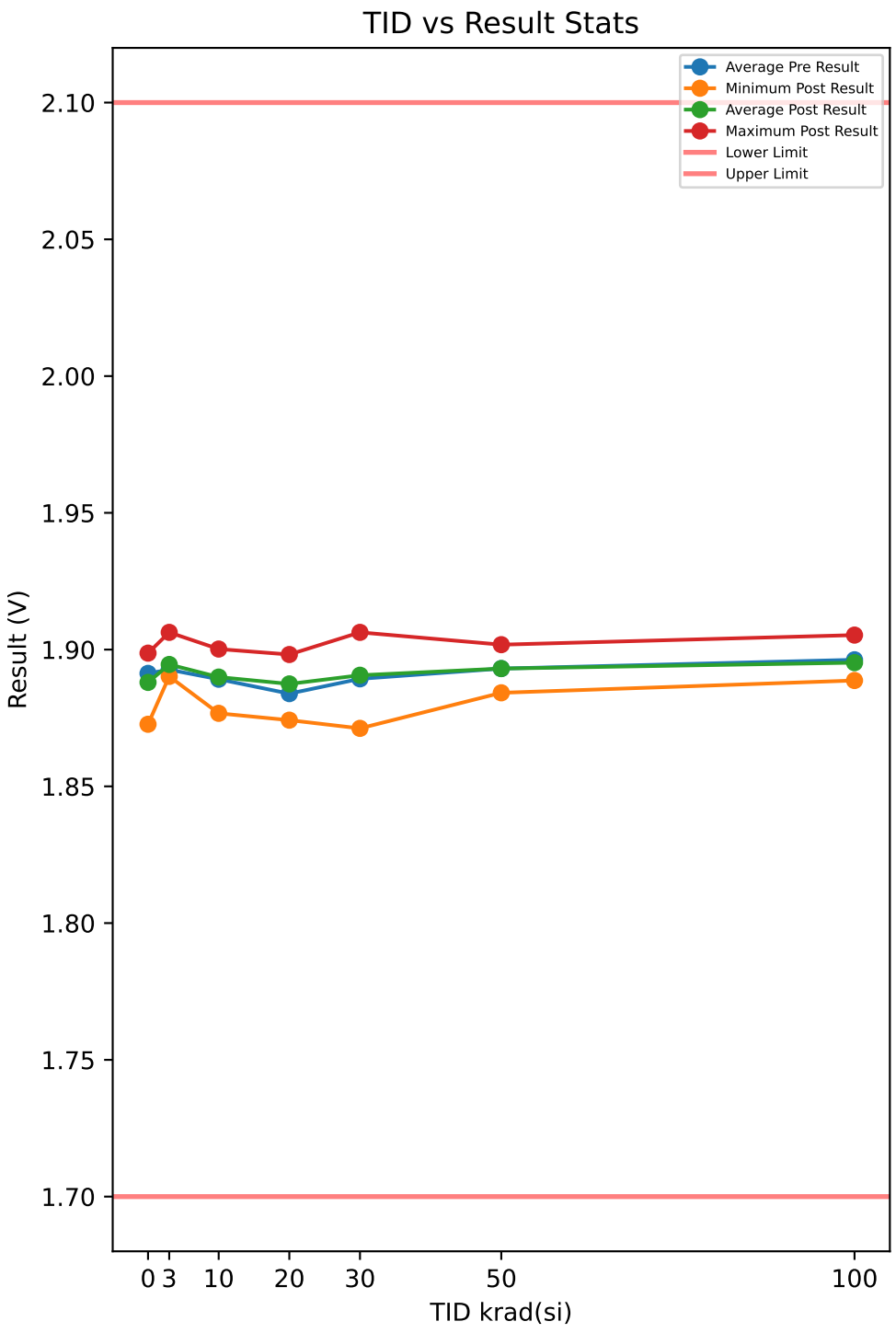
Test Results (Lower Limit = 4.7, Upper Limit = 7.3 (ms))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	5.8873	5.8873	0
51	3	Biased	5.9273	5.8073	-0.12
52	3	Biased	6.0073	5.8073	-0.2
53	3	Biased	5.8873	5.9673	0.08
54	3	Biased	5.9273	5.8873	-0.04
55	3	Unbiased	5.8873	5.8073	-0.08
56	3	Unbiased	5.8873	5.9673	0.08
57	3	Unbiased	5.8473	5.8873	0.04
58	3	Unbiased	5.8873	5.8473	-0.04
59	3	Unbiased	5.9273	5.8473	-0.08
60	10	Biased	5.9273	5.8073	-0.12
61	10	Biased	5.8473	5.8473	0
62	10	Biased	5.8873	5.8073	-0.08
63	10	Biased	5.8873	5.8873	0
64	10	Biased	5.9273	5.8473	-0.08
65	10	Unbiased	5.8473	5.8073	-0.04
66	10	Unbiased	5.8473	5.7673	-0.08
67	10	Unbiased	5.8873	5.8873	0
68	10	Unbiased	5.8873	5.8073	-0.08
69	10	Unbiased	5.9273	5.8073	-0.12
100	20	Biased	5.8473	5.8873	0.04
200	20	Biased	5.8873	5.8073	-0.08
300	20	Biased	5.8873	5.9273	0.04
400	20	Biased	5.9273	5.9273	0
500	20	Biased	5.9273	5.9673	0.04
600	20	Unbiased	5.8073	5.7673	-0.04
700	20	Unbiased	5.8873	5.8473	-0.04
800	20	Unbiased	5.8873	5.8473	-0.04
900	20	Unbiased	5.8473	5.8473	0
1000	20	Unbiased	5.8873	5.9273	0.04
1100	30	Biased	5.8873	5.9273	0.04
1200	30	Biased	5.9273	5.8873	-0.04
1300	30	Biased	5.8473	5.8473	0
1400	30	Biased	5.9673	5.8873	-0.08
1500	30	Biased	5.9273	6.0073	0.08
1600	30	Unbiased	5.8873	5.9273	0.04
1700	30	Unbiased	5.8473	5.8473	0
1800	30	Unbiased	5.8873	5.8873	0
1900	30	Unbiased	5.8473	5.8473	0
2000	30	Unbiased	5.9273	5.8873	-0.04
2100	50	Biased-84Hr-Anneal	5.8873	5.9273	0.04
2200	50	Biased-84Hr-Anneal	5.9273	5.9273	0
2300	50	Biased-84Hr-Anneal	5.8873	6.0073	0.12
2400	50	Biased-84Hr-Anneal	5.8873	5.8873	0
2500	50	Biased-84Hr-Anneal	5.9273	5.9673	0.04
2600	50	Unbiased	5.8873	5.8073	-0.08
2700	50	Unbiased	5.8873	5.8473	-0.04
2800	50	Unbiased	5.9673	5.9673	0
2900	50	Unbiased	5.8873	5.9273	0.04
3000	50	Unbiased	5.9273	5.8873	-0.04
4000	100	Biased-168Hr-Anneal	5.9673	6.0473	0.08
4100	100	Biased-168Hr-Anneal	5.8873	5.8473	-0.04
4200	100	Biased-168Hr-Anneal	5.7673	5.8073	0.04
4300	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4400	100	Biased-168Hr-Anneal	5.8073	5.8073	0
4500	100	Unbiased-168Hr-Anneal	5.8873	5.8873	0
4600	100	Unbiased-168Hr-Anneal	5.8873	5.8473	-0.04
4700	100	Unbiased-168Hr-Anneal	5.8873	5.8873	0
4800	100	Unbiased-168Hr-Anneal	5.8473	5.8473	0
4900	100	Unbiased-168Hr-Anneal	5.8873	5.7673	-0.12
9300	0	CORRELATION	5.8873	5.8873	0
9400	0	CORRELATION	5.9673	6.0073	0.04
9500	0	CORRELATION	5.8073	5.8073	0
9600	0	CORRELATION	5.8873	5.9273	0.04
9700	0	CORRELATION	5.8873	5.8873	0

Test Statistics (ms)

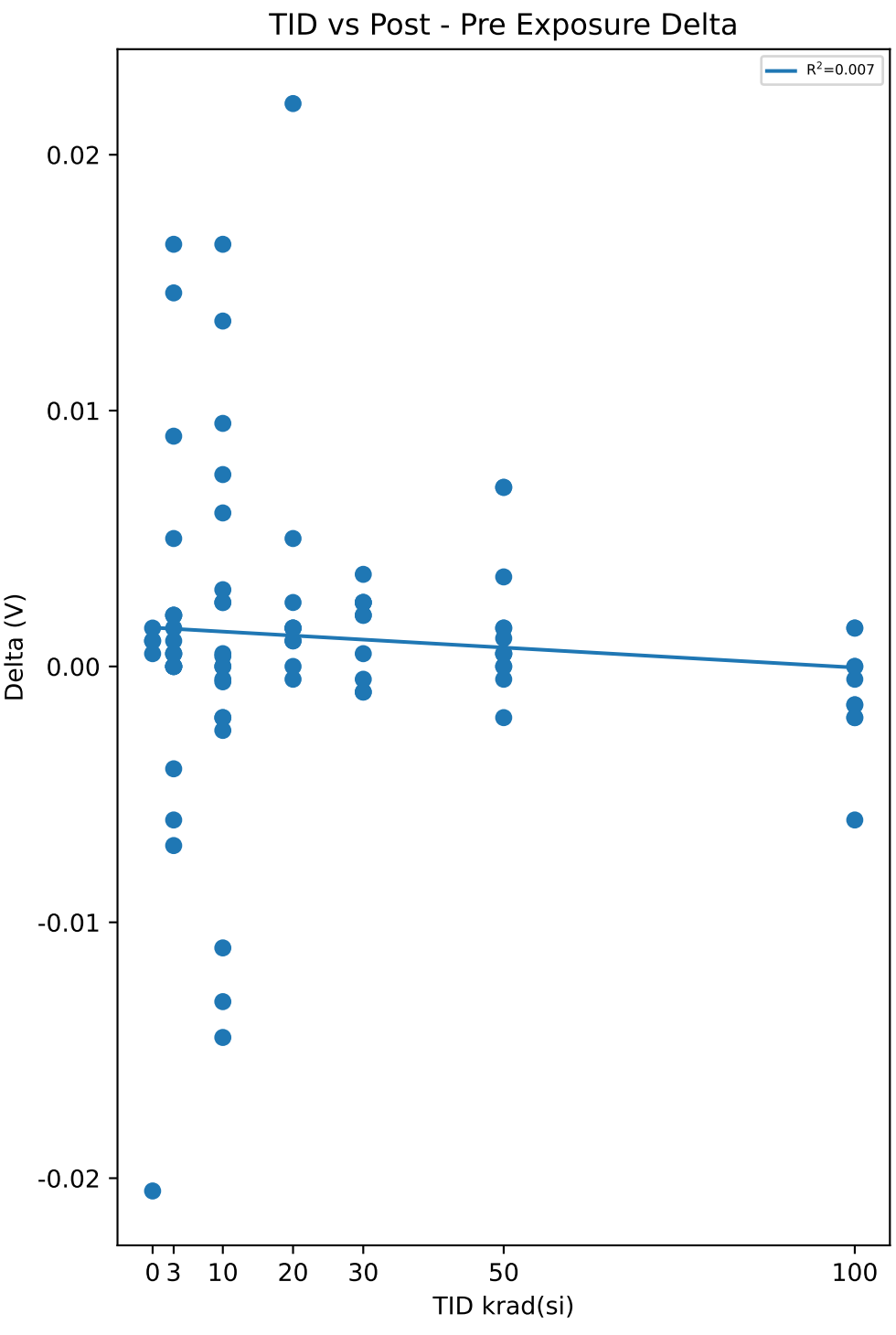
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.8073	5.8873	5.9673	0.056569	5.8073	5.9033	6.0073	0.072664	0	0.016	0.04	0.021909
3	5.8473	5.9073	6.0073	0.043205	5.8073	5.8713	5.9673	0.060222	-0.2	-0.036	0.08	0.089343
10	5.8473	5.8873	5.9273	0.03266	5.7673	5.8273	5.8873	0.038873	-0.12	-0.06	0	0.04714
20	5.8073	5.8793	5.9273	0.036757	5.7673	5.8753	5.9673	0.062681	-0.08	-0.004	0.04	0.04402
30	5.8473	5.8953	5.9673	0.041312	5.8473	5.8953	6.0073	0.049171	-0.08	0	0.08	0.046188
50	5.8873	5.9073	5.9673	0.028284	5.8073	5.9153	6.0073	0.059777	-0.08	0.008	0.12	0.055936
100	5.7673	5.8633	5.9673	0.057194	5.7673	5.8553	6.0473	0.077287	-0.12	-0.008	0.08	0.052662

Device Test: 22.9 LEVEL|RISE/COMP/5////@COMP_SHDN



Test Results (Lower Limit = 1.7, Upper Limit = 2.1 (V))

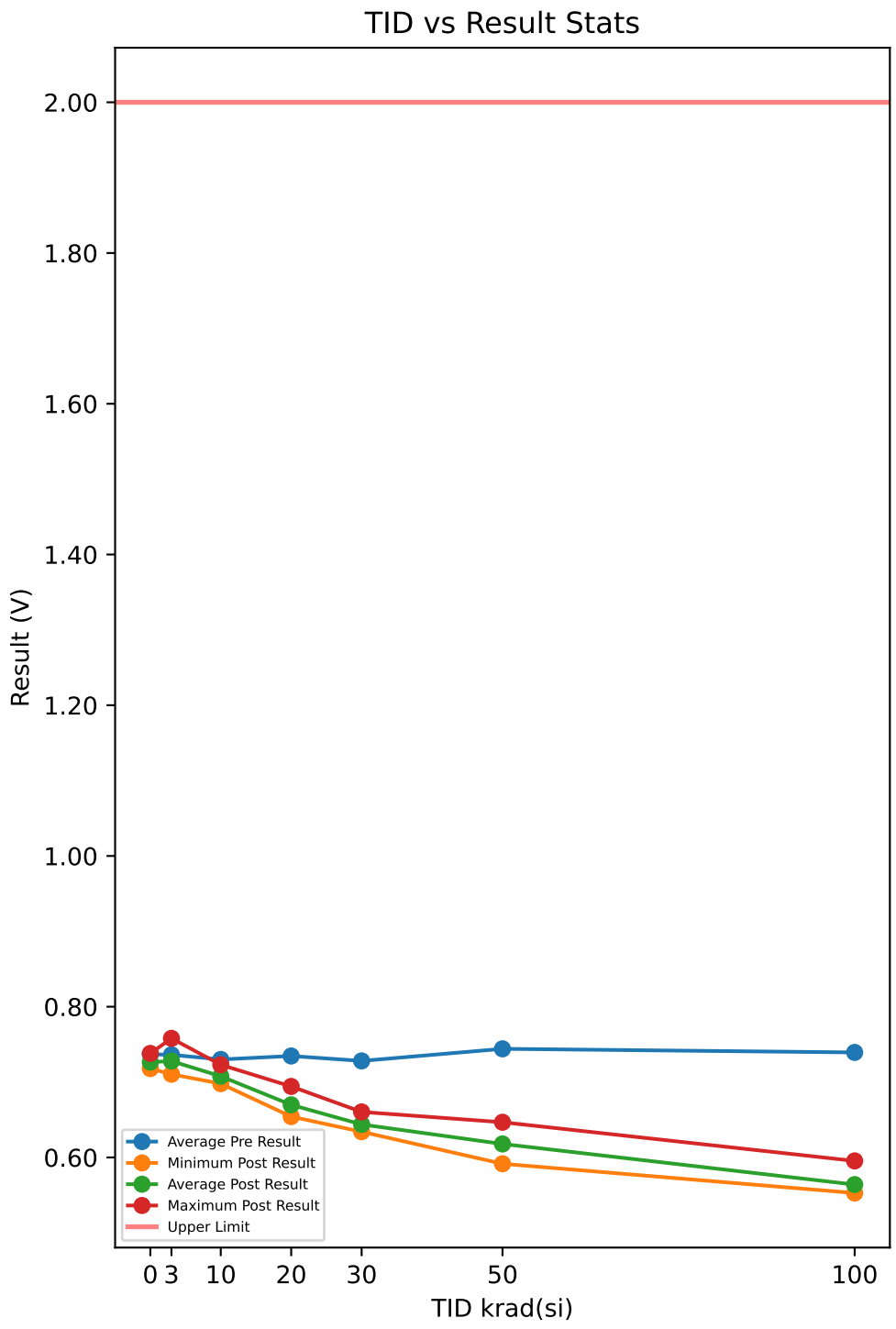
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.8927	1.8977	0.005
51	3	Biased	1.8947	1.8952	0.0005
52	3	Biased	1.8962	1.8922	-0.004
53	3	Biased	1.8917	1.9063	0.0146
54	3	Biased	1.8927	1.8937	0.001
55	3	Unbiased	1.8907	1.8922	0.0015
56	3	Unbiased	1.8962	1.8902	-0.006
57	3	Unbiased	1.8862	1.8952	0.009
58	3	Unbiased	1.8977	1.8907	-0.007
59	3	Unbiased	1.8757	1.8922	0.0165
60	10	Biased	1.8907	1.8907	0
61	10	Biased	1.9053	1.8922	-0.0131
62	10	Biased	1.8912	1.8767	-0.0145
63	10	Biased	1.8727	1.8862	0.0135
64	10	Biased	1.8872	1.8947	0.0075
65	10	Unbiased	1.8832	1.8892	0.006
66	10	Unbiased	1.8907	1.9002	0.0095
67	10	Unbiased	1.8942	1.8832	-0.011
68	10	Unbiased	1.8822	1.8987	0.0165
69	10	Unbiased	1.8872	1.8877	0.0005
100	20	Biased	1.8717	1.8937	0.022
200	20	Biased	1.8842	1.8837	-0.0005
300	20	Biased	1.8737	1.8747	0.001
400	20	Biased	1.8967	1.8982	0.0015
500	20	Biased	1.8727	1.8742	0.0015
600	20	Unbiased	1.8932	1.8982	0.005
700	20	Unbiased	1.8767	1.8782	0.0015
800	20	Unbiased	1.8917	1.8917	0
900	20	Unbiased	1.8887	1.8912	0.0025
1000	20	Unbiased	1.8897	1.8907	0.001
1100	30	Biased	1.8882	1.8902	0.002
1200	30	Biased	1.8887	1.8877	-0.001
1300	30	Biased	1.9007	1.9043	0.0036
1400	30	Biased	1.8897	1.8887	-0.001
1500	30	Biased	1.8982	1.9007	0.0025
1600	30	Unbiased	1.9068	1.9063	-0.0005
1700	30	Unbiased	1.8787	1.8812	0.0025
1800	30	Unbiased	1.8707	1.8712	0.0005
1900	30	Unbiased	1.8797	1.8822	0.0025
2000	30	Unbiased	1.8917	1.8937	0.002
2100	50	Biased-84Hr-Anneal	1.8862	1.8932	0.007
2200	50	Biased-84Hr-Anneal	1.8922	1.8922	0
2300	50	Biased-84Hr-Anneal	1.8982	1.8993	0.0011
2400	50	Biased-84Hr-Anneal	1.8917	1.8922	0.0005
2500	50	Biased-84Hr-Anneal	1.8837	1.8842	0.0005
2600	50	Unbiased	1.8977	1.8972	-0.0005
2700	50	Unbiased	1.8942	1.8942	0
2800	50	Unbiased	1.9013	1.9018	0.0005
2900	50	Unbiased	1.8887	1.8867	-0.002
3000	50	Unbiased	1.8967	1.9002	0.0035
4000	100	Biased-168Hr-Anneal	1.8977	1.8917	-0.006
4100	100	Biased-168Hr-Anneal	1.8907	1.8892	-0.0015
4200	100	Biased-168Hr-Anneal	1.8922	1.8937	0.0015
4300	100	Biased-168Hr-Anneal	1.9018	1.8998	-0.002
4400	100	Biased-168Hr-Anneal	1.8942	1.8942	0
4500	100	Unbiased-168Hr-Anneal	1.9007	1.8987	-0.002
4600	100	Unbiased-168Hr-Anneal	1.8942	1.8927	-0.0015
4700	100	Unbiased-168Hr-Anneal	1.8872	1.8887	0.0015
4800	100	Unbiased-168Hr-Anneal	1.8982	1.8982	0
4900	100	Unbiased-168Hr-Anneal	1.9058	1.9053	-0.0005
9300	0	CORRELATION	1.8932	1.8727	-0.0205
9400	0	CORRELATION	1.8812	1.8822	0.001
9500	0	CORRELATION	1.8907	1.8917	0.001
9600	0	CORRELATION	1.8932	1.8947	0.0015
9700	0	CORRELATION	1.8982	1.8987	0.0005

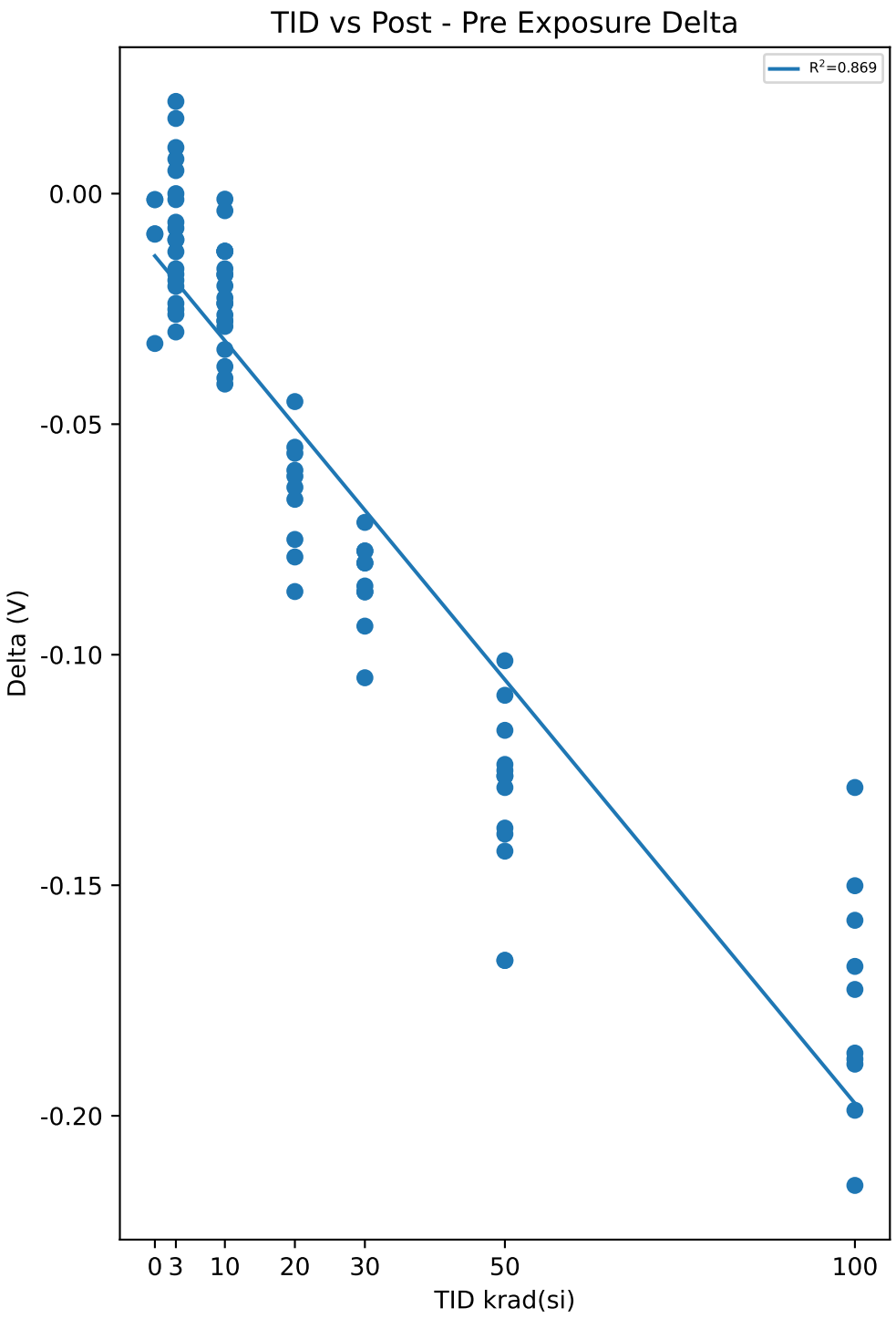


Test Statistics (V)

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	1.8812	1.8913	1.8982	0.006269	1.8727	1.888	1.8987	0.010498	-0.0205	-0.0033	0.0015	0.0096216
3	1.8757	1.8915	1.8977	0.0064474	1.8902	1.8946	1.9063	0.0047124	-0.007	0.00311	0.0165	0.0081594
10	1.8727	1.8885	1.9053	0.0085146	1.8767	1.89	1.9002	0.007076	-0.0145	0.00149	0.0165	0.011145
20	1.8717	1.8839	1.8967	0.0094169	1.8742	1.8875	1.8982	0.0091325	-0.0005	0.00355	0.022	0.0066519
30	1.8707	1.8893	1.9068	0.010921	1.8712	1.8906	1.9063	0.011021	-0.001	0.00131	0.0036	0.0016683
50	1.8837	1.8931	1.9013	0.0056437	1.8842	1.8941	1.9018	0.005715	-0.002	0.00106	0.007	0.0024994
100	1.8872	1.8963	1.9058	0.0056295	1.8887	1.8952	1.9053	0.0052113	-0.006	-0.00105	0.0015	0.002166

Device Test: 23.1 VIN|VALID/PWRGD/0////@MIN_VIN_FOR_PWRGD_OUTPUT





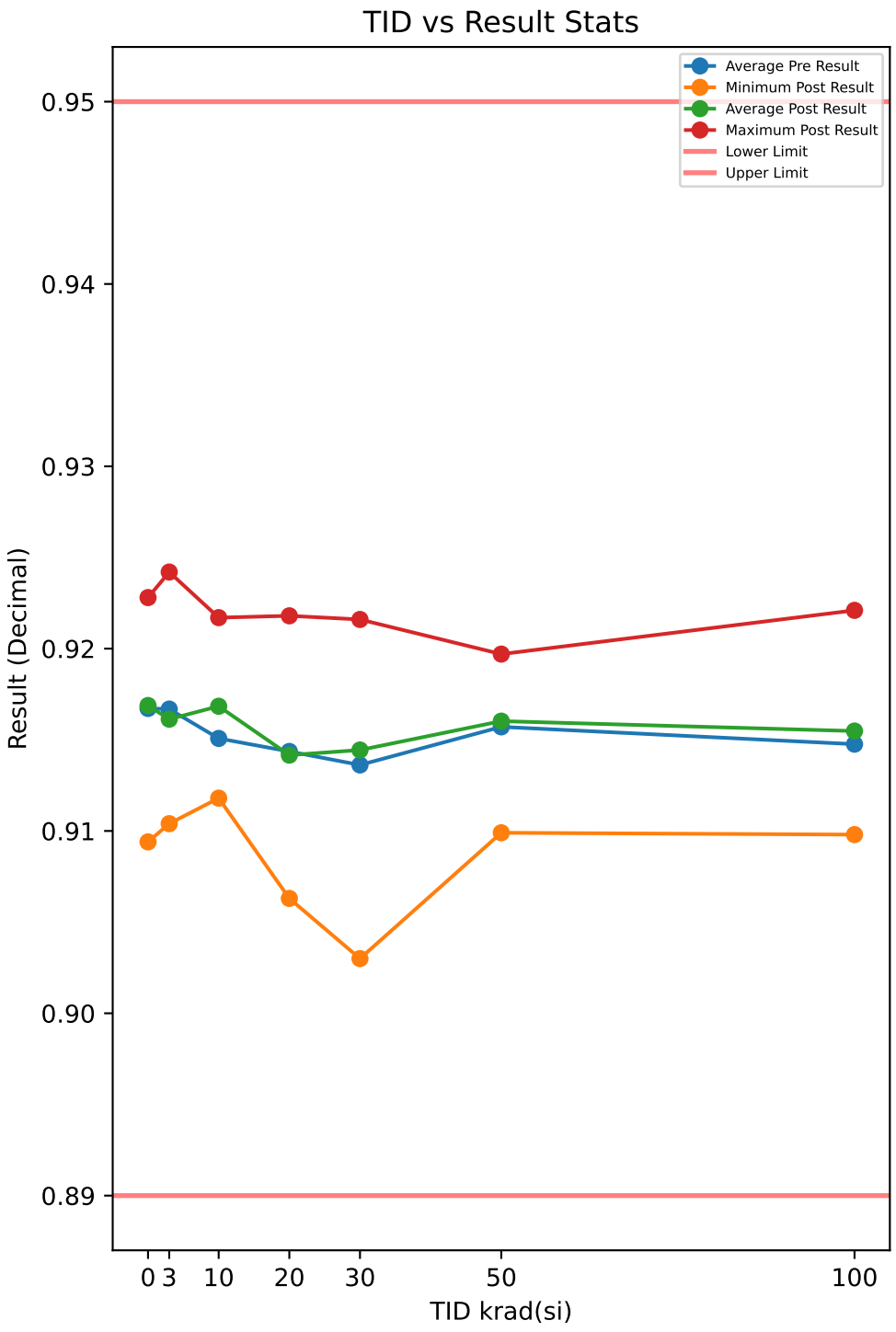
Test Results (Upper Limit = 2.0 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.7367	0.7179	-0.0188
51	3	Biased	0.7242	0.7292	0.005
52	3	Biased	0.7355	0.7255	-0.01
53	3	Biased	0.753	0.7292	-0.0238
54	3	Biased	0.728	0.728	0
55	3	Unbiased	0.7292	0.7129	-0.0163
56	3	Unbiased	0.7317	0.7417	0.01
57	3	Unbiased	0.7417	0.758	0.0163
58	3	Unbiased	0.7305	0.7104	-0.0201
59	3	Unbiased	0.733	0.7255	-0.0075
60	10	Biased	0.7392	0.6979	-0.0413
61	10	Biased	0.7255	0.6979	-0.0276
62	10	Biased	0.7167	0.7042	-0.0125
63	10	Biased	0.7242	0.7067	-0.0175
64	10	Biased	0.7292	0.7129	-0.0163
65	10	Unbiased	0.7355	0.7092	-0.0263
66	10	Unbiased	0.7267	0.723	-0.0037
67	10	Unbiased	0.7242	0.7117	-0.0125
68	10	Unbiased	0.7342	0.7004	-0.0338
69	10	Unbiased	0.7367	0.7129	-0.0238
100	20	Biased	0.7455	0.6592	-0.0863
200	20	Biased	0.753	0.6742	-0.0788
300	20	Biased	0.7605	0.6942	-0.0663
400	20	Biased	0.7255	0.6642	-0.0613
500	20	Biased	0.7442	0.6692	-0.075
600	20	Unbiased	0.7205	0.6642	-0.0563
700	20	Unbiased	0.7217	0.6667	-0.055
800	20	Unbiased	0.7179	0.6542	-0.0637
900	20	Unbiased	0.7367	0.6767	-0.06
1000	20	Unbiased	0.7205	0.6754	-0.0451
1100	30	Biased	0.7367	0.6429	-0.0938
1200	30	Biased	0.7142	0.6341	-0.0801
1300	30	Biased	0.7217	0.6366	-0.0851
1400	30	Biased	0.7255	0.6391	-0.0864
1500	30	Biased	0.7317	0.6604	-0.0713
1600	30	Unbiased	0.7154	0.6379	-0.0775
1700	30	Unbiased	0.7467	0.6417	-0.105
1800	30	Unbiased	0.733	0.6529	-0.0801
1900	30	Unbiased	0.7154	0.6379	-0.0775
2000	30	Unbiased	0.7405	0.6542	-0.0863
2100	50	Biased-84Hr-Anneal	0.7667	0.6004	-0.1663
2200	50	Biased-84Hr-Anneal	0.7492	0.6066	-0.1426
2300	50	Biased-84Hr-Anneal	0.763	0.6254	-0.1376
2400	50	Biased-84Hr-Anneal	0.7655	0.6417	-0.1238
2500	50	Biased-84Hr-Anneal	0.7555	0.6467	-0.1088
2600	50	Unbiased	0.7305	0.5916	-0.1389
2700	50	Unbiased	0.7392	0.6104	-0.1288
2800	50	Unbiased	0.7242	0.5991	-0.1251
2900	50	Unbiased	0.733	0.6166	-0.1164
3000	50	Unbiased	0.7142	0.6129	-0.1013
4000	100	Biased-168Hr-Anneal	0.7642	0.5654	-0.1988
4100	100	Biased-168Hr-Anneal	0.7242	0.5954	-0.1288
4200	100	Biased-168Hr-Anneal	0.7029	0.5528	-0.1501
4300	100	Biased-168Hr-Anneal	0.7692	0.5541	-0.2151
4400	100	Biased-168Hr-Anneal	0.7267	0.5691	-0.1576
4500	100	Unbiased-168Hr-Anneal	0.7567	0.5679	-0.1888
4600	100	Unbiased-168Hr-Anneal	0.7355	0.5629	-0.1726
4700	100	Unbiased-168Hr-Anneal	0.7405	0.5528	-0.1877
4800	100	Unbiased-168Hr-Anneal	0.7405	0.5541	-0.1864
4900	100	Unbiased-168Hr-Anneal	0.733	0.5654	-0.1676
9300	0	CORRELATION	0.7705	0.738	-0.0325
9400	0	CORRELATION	0.7392	0.7305	-0.0087
9500	0	CORRELATION	0.733	0.7242	-0.0088
9600	0	CORRELATION	0.723	0.7217	-0.0013
9700	0	CORRELATION	0.7192	0.7179	-0.0013

Test Statistics (V)

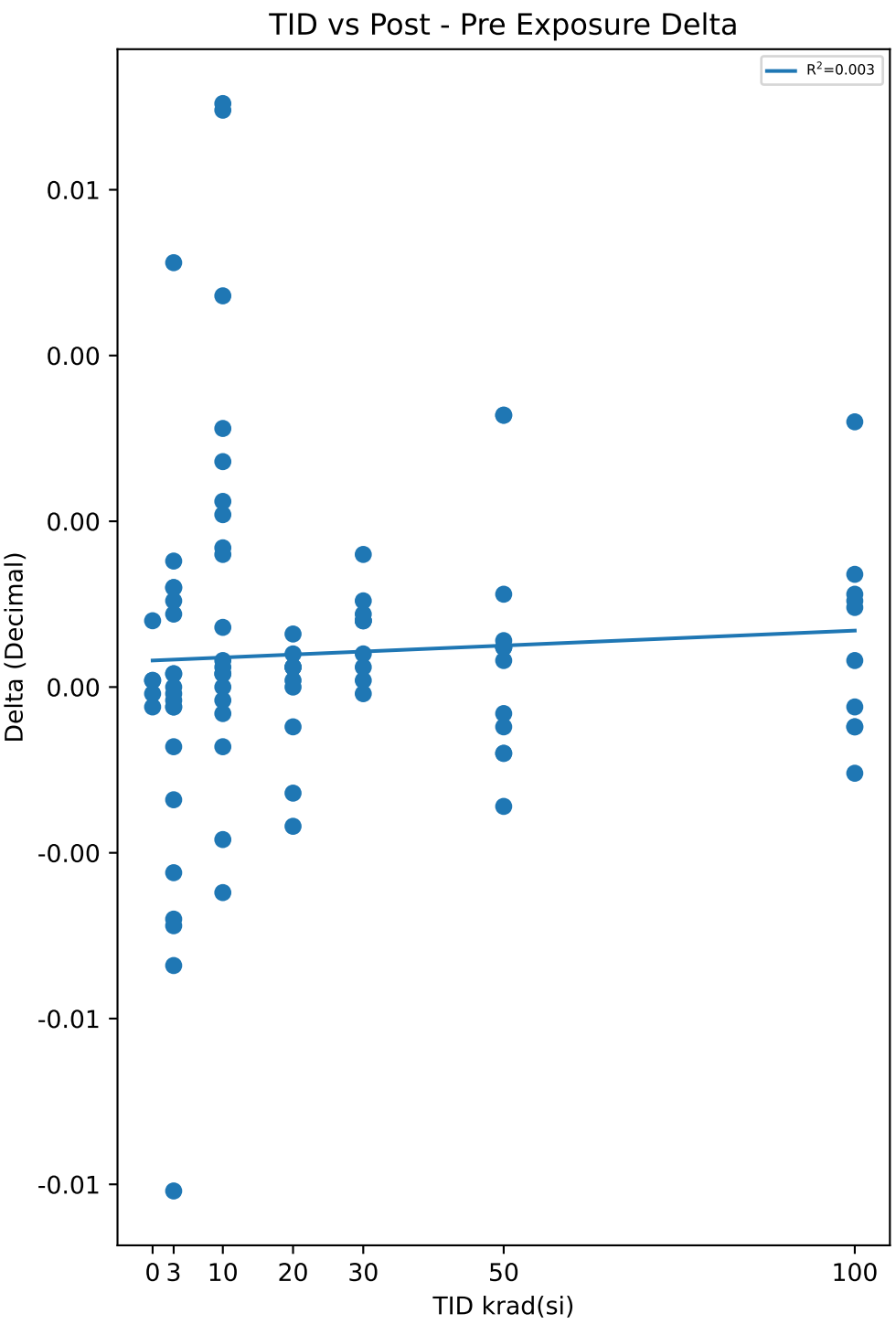
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7192	0.73698	0.7705	0.020347	0.7179	0.72646	0.738	0.0079141	-0.0325	-0.01052	-0.0013	0.012839
3	0.7242	0.73435	0.753	0.0081801	0.7104	0.72783	0.758	0.013915	-0.0238	-0.00652	0.0163	0.01379
10	0.7167	0.72921	0.7392	0.0070485	0.6979	0.70768	0.723	0.0079235	-0.0413	-0.02153	-0.0037	0.011209
20	0.7179	0.7346	0.7605	0.015458	0.6542	0.66982	0.6942	0.011166	-0.0863	-0.06478	-0.0451	0.012281
30	0.7142	0.72808	0.7467	0.011422	0.6341	0.64377	0.6604	0.0088781	-0.105	-0.08431	-0.0713	0.0095717
50	0.7142	0.7441	0.7667	0.018571	0.5916	0.61514	0.6467	0.018068	-0.1663	-0.12896	-0.1013	0.018633
100	0.7029	0.73934	0.7692	0.01996	0.5528	0.56399	0.5954	0.01282	-0.2151	-0.17535	-0.1288	0.025326

Device Test: 23.10 THRESHOLD|FALL/PWRGD/5////@VSENSE_VTH_FALLING_FAULT



Test Results (Lower Limit = 0.89, Upper Limit = 0.95 (Decimal))

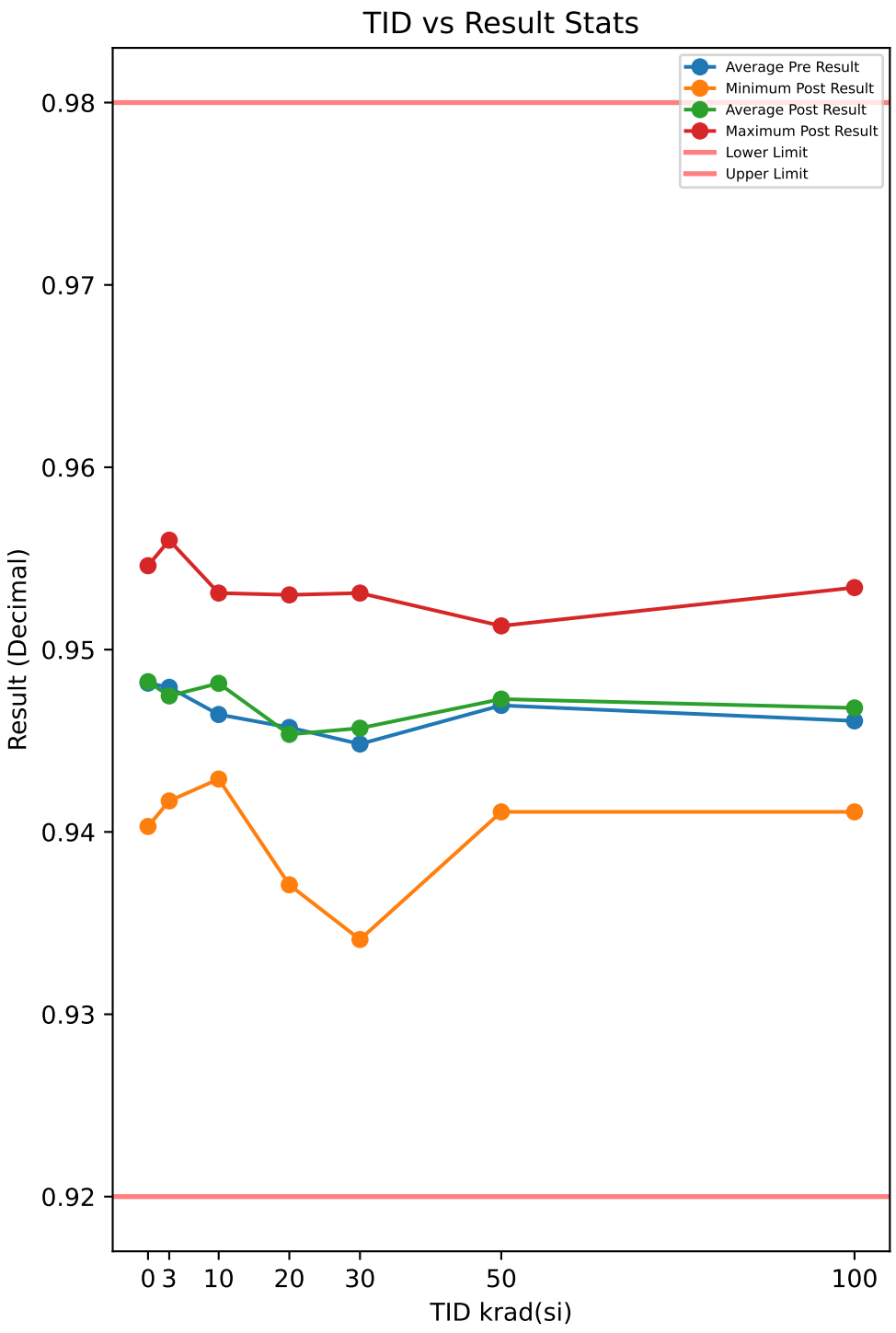
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9168	0.9151	-0.0017
51	3	Biased	0.9227	0.9225	-0.0002
52	3	Biased	0.9231	0.9242	0.0011
53	3	Biased	0.9152	0.9116	-0.0036
54	3	Biased	0.9146	0.9104	-0.0042
55	3	Unbiased	0.9176	0.9141	-0.0035
56	3	Unbiased	0.9217	0.9189	-0.0028
57	3	Unbiased	0.911	0.9125	0.0015
58	3	Unbiased	0.9191	0.9115	-0.0076
59	3	Unbiased	0.9141	0.9205	0.0064
60	10	Biased	0.9158	0.9217	0.0059
61	10	Biased	0.9166	0.9162	-0.0004
62	10	Biased	0.9114	0.9153	0.0039
63	10	Biased	0.9092	0.9118	0.0026
64	10	Biased	0.9117	0.9205	0.0088
65	10	Unbiased	0.9079	0.9166	0.0087
66	10	Unbiased	0.9171	0.9205	0.0034
67	10	Unbiased	0.918	0.9189	0.0009
68	10	Unbiased	0.9166	0.9143	-0.0023
69	10	Unbiased	0.9157	0.9126	-0.0031
100	20	Biased	0.9178	0.9157	-0.0021
200	20	Biased	0.9151	0.9152	0.0001
300	20	Biased	0.91	0.9103	0.0003
400	20	Biased	0.9234	0.9218	-0.0016
500	20	Biased	0.91	0.9103	0.0003
600	20	Unbiased	0.9063	0.9063	0
700	20	Unbiased	0.9154	0.9162	0.0008
800	20	Unbiased	0.9183	0.9186	0.0003
900	20	Unbiased	0.9139	0.9144	0.0005
1000	20	Unbiased	0.9134	0.9128	-0.0006
1100	30	Biased	0.9189	0.9199	0.001
1200	30	Biased	0.9146	0.9159	0.0013
1300	30	Biased	0.9196	0.9216	0.002
1400	30	Biased	0.9176	0.9186	0.001
1500	30	Biased	0.9133	0.9143	0.001
1600	30	Unbiased	0.9019	0.903	0.0011
1700	30	Unbiased	0.91	0.9105	0.0005
1800	30	Unbiased	0.9092	0.9093	0.0001
1900	30	Unbiased	0.9165	0.9168	0.0003
2000	30	Unbiased	0.9146	0.9145	-0.0001
2100	50	Biased-84Hr-Anneal	0.9145	0.9186	0.0041
2200	50	Biased-84Hr-Anneal	0.9193	0.9197	0.0004
2300	50	Biased-84Hr-Anneal	0.9188	0.9195	0.0007
2400	50	Biased-84Hr-Anneal	0.9157	0.9147	-0.001
2500	50	Biased-84Hr-Anneal	0.9159	0.9173	0.0014
2600	50	Unbiased	0.9155	0.9137	-0.0018
2700	50	Unbiased	0.918	0.917	-0.001
2800	50	Unbiased	0.9167	0.9173	0.0006
2900	50	Unbiased	0.9122	0.9118	-0.0004
3000	50	Unbiased	0.9105	0.9099	-0.0006
4000	100	Biased-168Hr-Anneal	0.9153	0.9193	0.004
4100	100	Biased-168Hr-Anneal	0.9104	0.9098	-0.0006
4200	100	Biased-168Hr-Anneal	0.9135	0.9152	0.0017
4300	100	Biased-168Hr-Anneal	0.9208	0.9221	0.0013
4400	100	Biased-168Hr-Anneal	0.9145	0.9159	0.0014
4500	100	Unbiased-168Hr-Anneal	0.9164	0.9176	0.0012
4600	100	Unbiased-168Hr-Anneal	0.9113	0.911	-0.0003
4700	100	Unbiased-168Hr-Anneal	0.9175	0.9162	-0.0013
4800	100	Unbiased-168Hr-Anneal	0.9115	0.9119	0.0004
4900	100	Unbiased-168Hr-Anneal	0.9164	0.9158	-0.0006
9300	0	CORRELATION	0.9169	0.9179	0.001
9400	0	CORRELATION	0.9093	0.9094	0.0001
9500	0	CORRELATION	0.9172	0.9169	-0.0003
9600	0	CORRELATION	0.9229	0.9228	-0.0001
9700	0	CORRELATION	0.9173	0.9174	0.0001

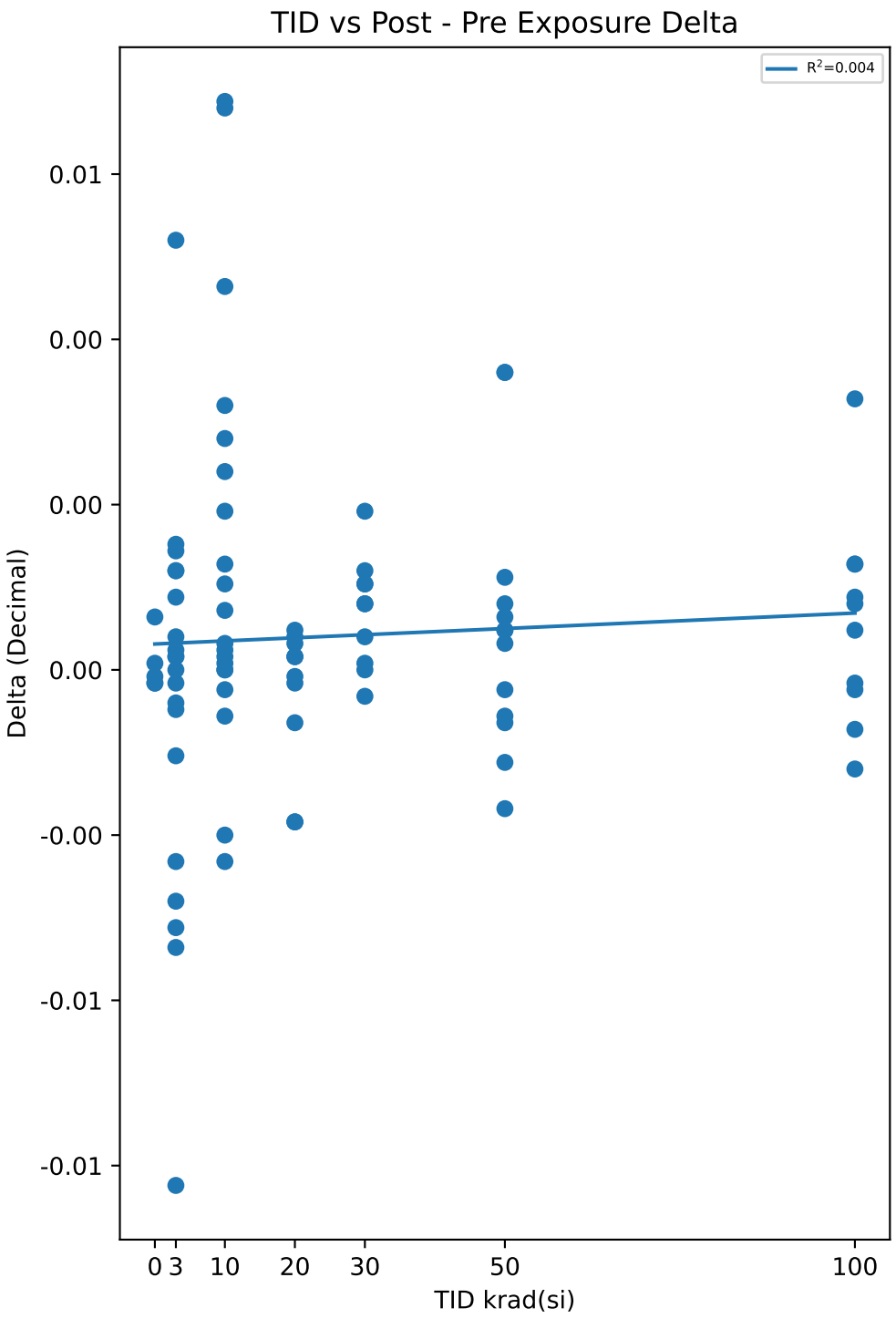


Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9093	0.91672	0.9229	0.0048438	0.9094	0.91688	0.9228	0.0048039	-0.0003	0.00016	0.001	0.000498
3	0.911	0.91759	0.9231	0.004035	0.9104	0.91613	0.9242	0.0050069	-0.0076	-0.00146	0.0064	0.0038656
10	0.9079	0.914	0.918	0.0036142	0.9118	0.91684	0.9217	0.0034532	-0.0031	0.00284	0.0088	0.0041724
20	0.9063	0.91436	0.9234	0.0048856	0.9063	0.91416	0.9218	0.004462	-0.0021	-0.0002	0.0008	0.00094868
30	0.9019	0.91362	0.9196	0.0053727	0.903	0.91444	0.9216	0.005567	-0.0001	0.00082	0.002	0.00062681
50	0.9105	0.91571	0.9193	0.0027823	0.9099	0.91595	0.9197	0.0033147	-0.0018	0.00024	0.0041	0.0016655
100	0.9104	0.91476	0.9208	0.0032132	0.9098	0.91548	0.9221	0.003785	-0.0013	0.00072	0.004	0.001544

Device Test: 23.11 THRESHOLD|RISE/PWRGD/5////@VSENSE_VTH_RISING_GOOD





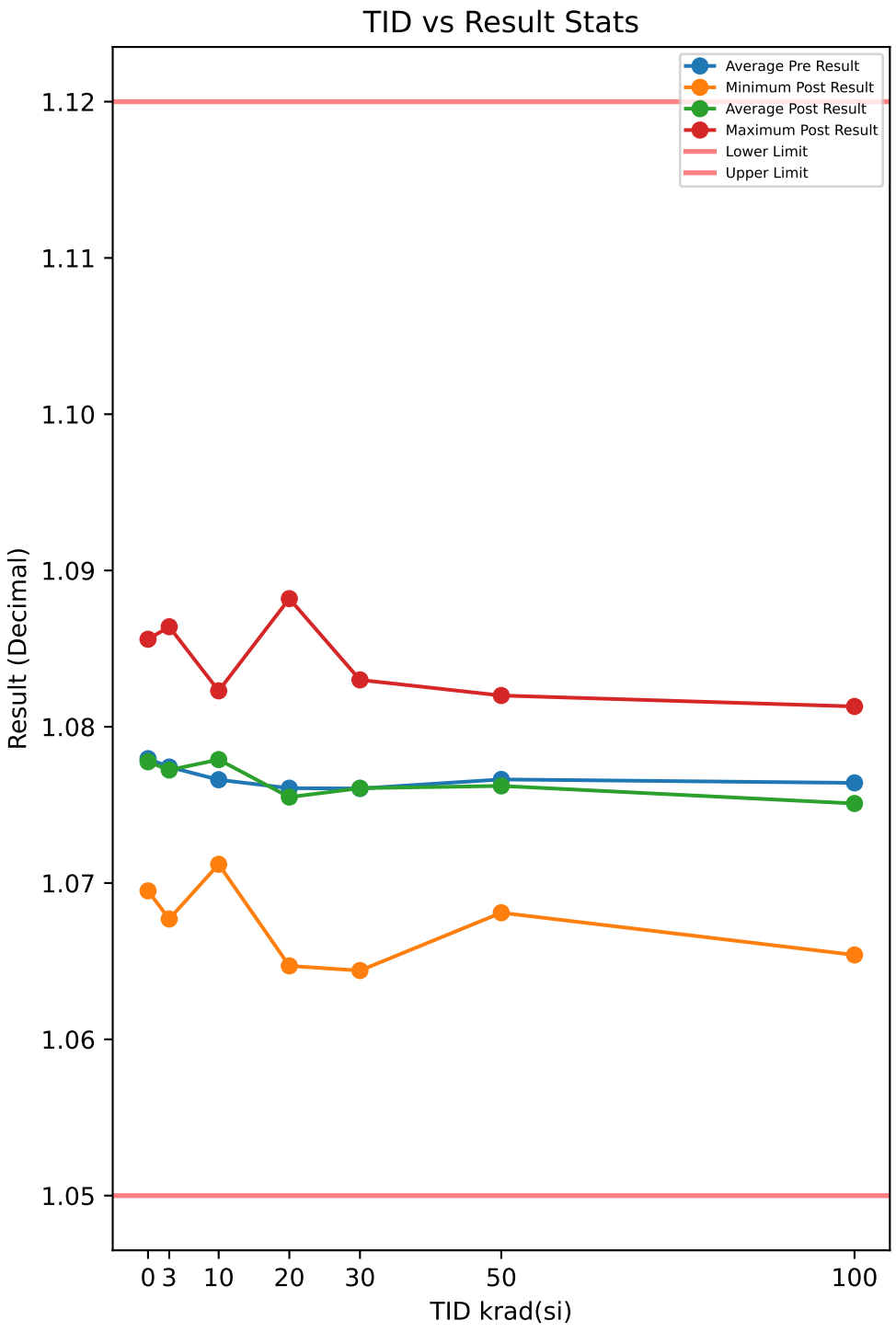
Test Results (Lower Limit = 0.92, Upper Limit = 0.98 (Decimal))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9477	0.9464	-0.0013
51	3	Biased	0.9538	0.954	0.0002
52	3	Biased	0.9545	0.956	0.0015
53	3	Biased	0.9465	0.943	-0.0035
54	3	Biased	0.9459	0.9417	-0.0042
55	3	Unbiased	0.9493	0.9454	-0.0039
56	3	Unbiased	0.953	0.9501	-0.0029
57	3	Unbiased	0.9418	0.9436	0.0018
58	3	Unbiased	0.9504	0.9426	-0.0078
59	3	Unbiased	0.9453	0.9518	0.0065
60	10	Biased	0.9473	0.9531	0.0058
61	10	Biased	0.9478	0.9475	-0.0003
62	10	Biased	0.9426	0.9466	0.004
63	10	Biased	0.9405	0.9429	0.0024
64	10	Biased	0.9432	0.9517	0.0085
65	10	Unbiased	0.9392	0.9478	0.0086
66	10	Unbiased	0.9481	0.9516	0.0035
67	10	Unbiased	0.9497	0.9506	0.0009
68	10	Unbiased	0.9481	0.9456	-0.0025
69	10	Unbiased	0.947	0.9441	-0.0029
100	20	Biased	0.9493	0.947	-0.0023
200	20	Biased	0.9462	0.9464	0.0002
300	20	Biased	0.9413	0.9412	-0.0001
400	20	Biased	0.9553	0.953	-0.0023
500	20	Biased	0.9411	0.9415	0.0004
600	20	Unbiased	0.9373	0.9371	-0.0002
700	20	Unbiased	0.9471	0.9477	0.0006
800	20	Unbiased	0.9499	0.9501	0.0002
900	20	Unbiased	0.945	0.9455	0.0005
1000	20	Unbiased	0.9448	0.944	-0.0008
1100	30	Biased	0.9504	0.9517	0.0013
1200	30	Biased	0.9459	0.9474	0.0015
1300	30	Biased	0.9507	0.9531	0.0024
1400	30	Biased	0.9489	0.9499	0.001
1500	30	Biased	0.9444	0.9454	0.001
1600	30	Unbiased	0.9328	0.9341	0.0013
1700	30	Unbiased	0.9412	0.9413	0.0001
1800	30	Unbiased	0.94	0.9405	0.0005
1900	30	Unbiased	0.948	0.948	0
2000	30	Unbiased	0.9459	0.9455	-0.0004
2100	50	Biased-84Hr-Anneal	0.9456	0.9501	0.0045
2200	50	Biased-84Hr-Anneal	0.9506	0.951	0.0004
2300	50	Biased-84Hr-Anneal	0.9505	0.9513	0.0008
2400	50	Biased-84Hr-Anneal	0.9472	0.9458	-0.0014
2500	50	Biased-84Hr-Anneal	0.9472	0.9486	0.0014
2600	50	Unbiased	0.9466	0.9445	-0.0021
2700	50	Unbiased	0.9492	0.9485	-0.0007
2800	50	Unbiased	0.9478	0.9488	0.001
2900	50	Unbiased	0.9433	0.9425	-0.0008
3000	50	Unbiased	0.9414	0.9411	-0.0003
4000	100	Biased-168Hr-Anneal	0.9468	0.9509	0.0041
4100	100	Biased-168Hr-Anneal	0.9413	0.9411	-0.0002
4200	100	Biased-168Hr-Anneal	0.9448	0.9464	0.0016
4300	100	Biased-168Hr-Anneal	0.9523	0.9534	0.0011
4400	100	Biased-168Hr-Anneal	0.9457	0.9473	0.0016
4500	100	Unbiased-168Hr-Anneal	0.9478	0.9488	0.001
4600	100	Unbiased-168Hr-Anneal	0.9428	0.9425	-0.0003
4700	100	Unbiased-168Hr-Anneal	0.9492	0.9477	-0.0015
4800	100	Unbiased-168Hr-Anneal	0.9425	0.9431	0.0006
4900	100	Unbiased-168Hr-Anneal	0.9477	0.9468	-0.0009
9300	0	CORRELATION	0.9484	0.9492	0.0008
9400	0	CORRELATION	0.9404	0.9403	-0.0001
9500	0	CORRELATION	0.9484	0.9482	-0.0002
9600	0	CORRELATION	0.9548	0.9546	-0.0002
9700	0	CORRELATION	0.9488	0.9489	0.0001

Test Statistics (Decimal)

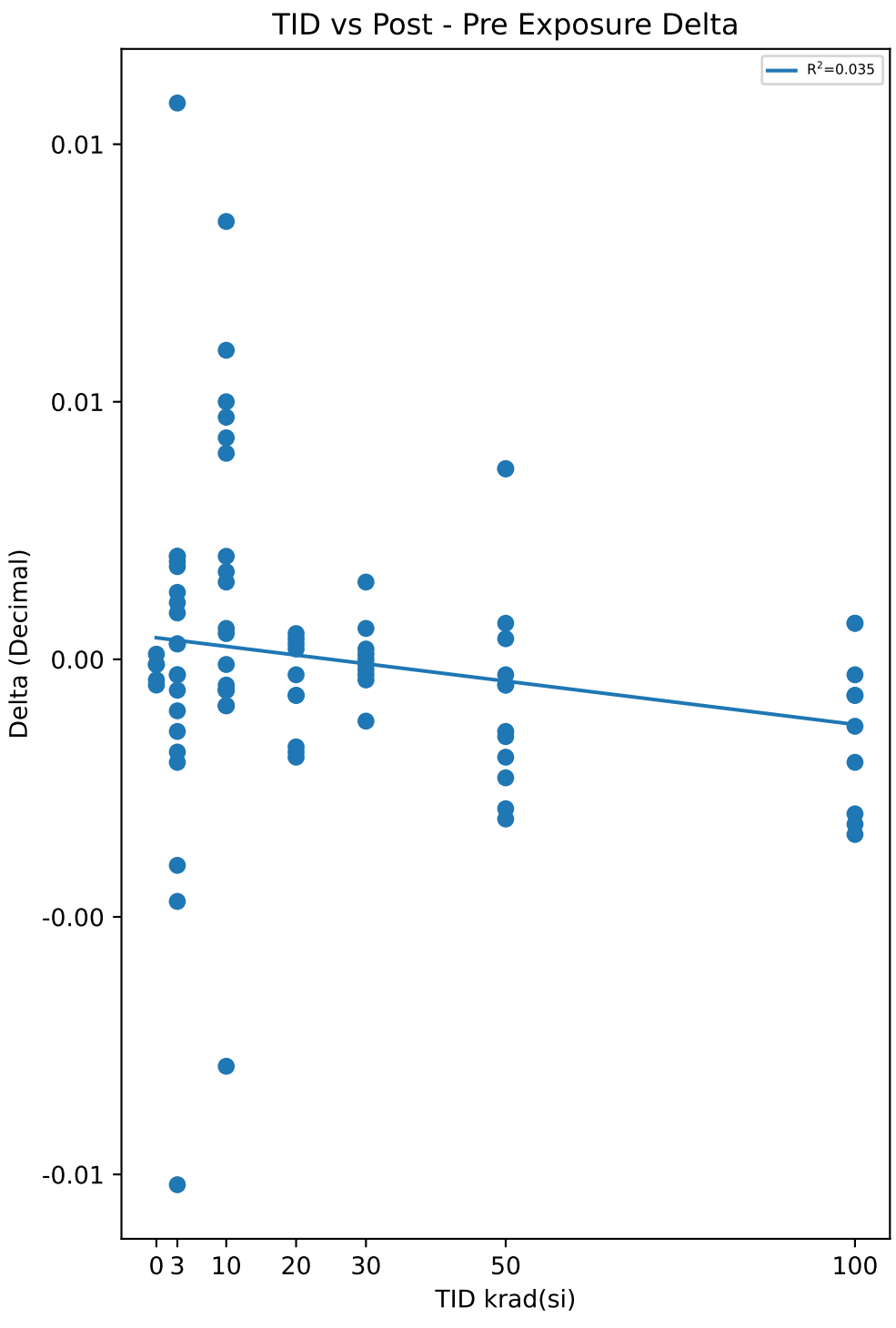
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9404	0.94816	0.9548	0.0051194	0.9403	0.94824	0.9546	0.0051199	-0.0002	8e-05	0.0008	0.00042071
3	0.9418	0.94882	0.9545	0.0041378	0.9417	0.94746	0.956	0.0051474	-0.0078	-0.00136	0.0065	0.0040183
10	0.9392	0.94535	0.9497	0.0036531	0.9429	0.94815	0.9531	0.0034709	-0.0029	0.0028	0.0086	0.0040963
20	0.9373	0.94573	0.9553	0.0051353	0.9371	0.94535	0.953	0.0046234	-0.0023	-0.00038	0.0006	0.0010891
30	0.9328	0.94482	0.9507	0.0055357	0.9341	0.94569	0.9531	0.005751	-0.0004	0.00087	0.0024	0.00083273
50	0.9414	0.94694	0.9506	0.0029421	0.9411	0.94722	0.9513	0.0035655	-0.0021	0.00028	0.0045	0.0018504
100	0.9413	0.94609	0.9523	0.0033785	0.9411	0.9468	0.9534	0.0038044	-0.0015	0.00071	0.0041	0.0015864

Device Test: 23.12 THRESHOLD|RISE/PWRGD/5////@VSENSE_VTH_RISING_FAULT



Test Results (Lower Limit = 1.05, Upper Limit = 1.12 (Decimal))

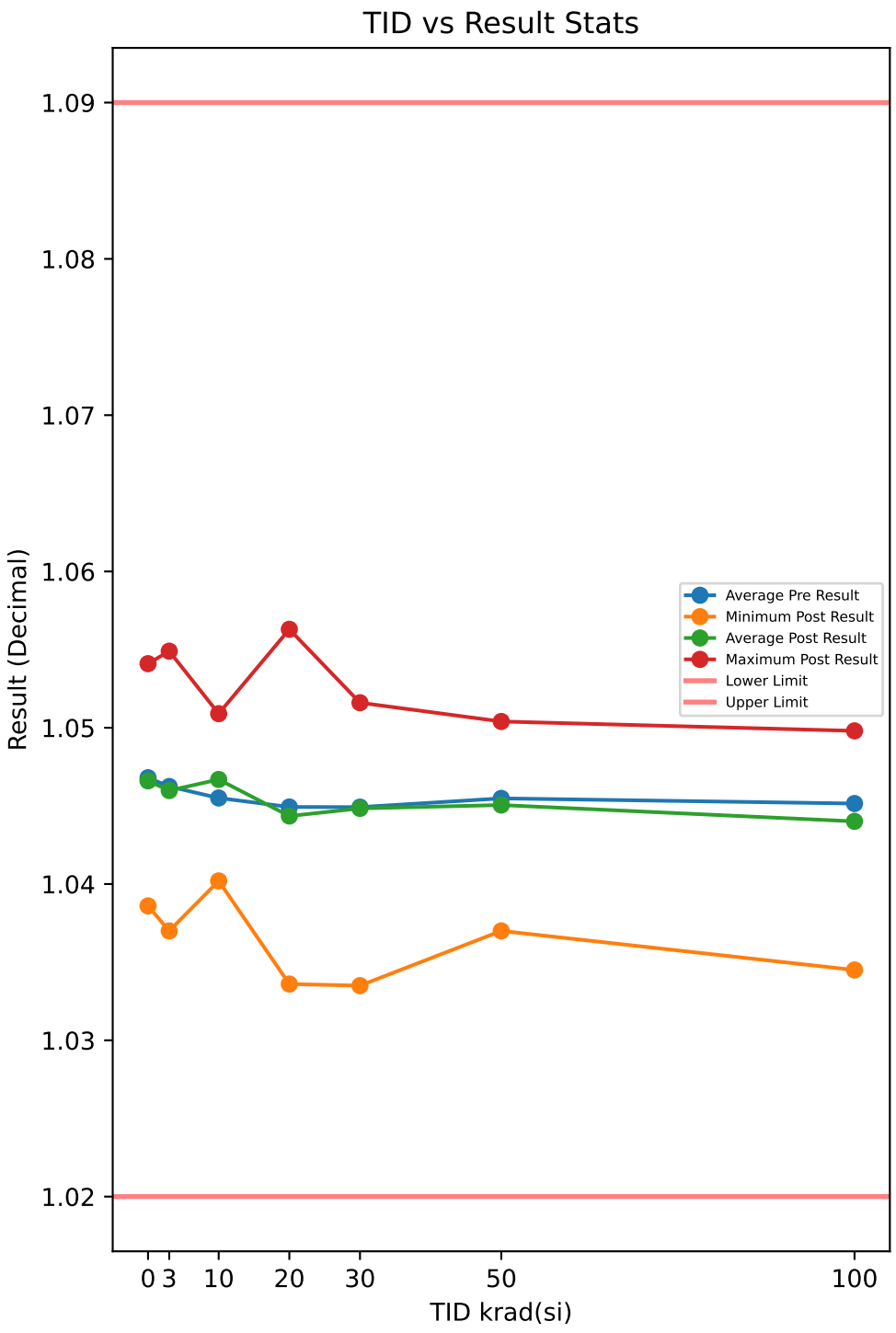
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0774	1.0754	-0.002
51	3	Biased	1.0818	1.0836	0.0018
52	3	Biased	1.0853	1.0864	0.0011
53	3	Biased	1.0745	1.0735	-0.001
54	3	Biased	1.0779	1.0677	-0.0102
55	3	Unbiased	1.0796	1.0749	-0.0047
56	3	Unbiased	1.0821	1.0803	-0.0018
57	3	Unbiased	1.0712	1.0731	0.0019
58	3	Unbiased	1.0775	1.0735	-0.004
59	3	Unbiased	1.0731	1.0839	0.0108
60	10	Biased	1.0776	1.0819	0.0043
61	10	Biased	1.0767	1.0758	-0.0009
62	10	Biased	1.0708	1.0755	0.0047
63	10	Biased	1.0697	1.0747	0.005
64	10	Biased	1.0734	1.0819	0.0085
65	10	Unbiased	1.0699	1.0759	0.006
66	10	Unbiased	1.0783	1.0823	0.004
67	10	Unbiased	1.0815	1.082	0.0005
68	10	Unbiased	1.0784	1.0778	-0.0006
69	10	Unbiased	1.0791	1.0712	-0.0079
100	20	Biased	1.0781	1.0762	-0.0019
200	20	Biased	1.0775	1.0768	-0.0007
300	20	Biased	1.0722	1.0724	0.0002
400	20	Biased	1.0899	1.0882	-0.0017
500	20	Biased	1.0705	1.0698	-0.0007
600	20	Unbiased	1.065	1.0647	-0.0003
700	20	Unbiased	1.0747	1.0752	0.0005
800	20	Unbiased	1.0807	1.0811	0.0004
900	20	Unbiased	1.0763	1.0766	0.0003
1000	20	Unbiased	1.0758	1.074	-0.0018
1100	30	Biased	1.0831	1.0828	-0.0003
1200	30	Biased	1.0746	1.0748	0.0002
1300	30	Biased	1.0815	1.083	0.0015
1400	30	Biased	1.0833	1.0829	-0.0004
1500	30	Biased	1.0752	1.0751	-0.0001
1600	30	Unbiased	1.0643	1.0644	0.0001
1700	30	Unbiased	1.0715	1.0715	0
1800	30	Unbiased	1.0698	1.0704	0.0006
1900	30	Unbiased	1.0812	1.08	-0.0012
2000	30	Unbiased	1.076	1.0758	-0.0002
2100	50	Biased-84Hr-Anneal	1.0768	1.0805	0.0037
2200	50	Biased-84Hr-Anneal	1.0834	1.082	-0.0014
2300	50	Biased-84Hr-Anneal	1.081	1.0807	-0.0003
2400	50	Biased-84Hr-Anneal	1.0759	1.073	-0.0029
2500	50	Biased-84Hr-Anneal	1.0738	1.0742	0.0004
2600	50	Unbiased	1.0741	1.0718	-0.0023
2700	50	Unbiased	1.0815	1.0796	-0.0019
2800	50	Unbiased	1.0777	1.0784	0.0007
2900	50	Unbiased	1.0725	1.0694	-0.0031
3000	50	Unbiased	1.0696	1.0681	-0.0015
4000	100	Biased-168Hr-Anneal	1.0771	1.0778	0.0007
4100	100	Biased-168Hr-Anneal	1.0686	1.0654	-0.0032
4200	100	Biased-168Hr-Anneal	1.0765	1.0745	-0.002
4300	100	Biased-168Hr-Anneal	1.0826	1.0813	-0.0013
4400	100	Biased-168Hr-Anneal	1.0781	1.0751	-0.003
4500	100	Unbiased-168Hr-Anneal	1.08	1.0797	-0.0003
4600	100	Unbiased-168Hr-Anneal	1.0739	1.0732	-0.0007
4700	100	Unbiased-168Hr-Anneal	1.0762	1.0755	-0.0007
4800	100	Unbiased-168Hr-Anneal	1.0724	1.0731	0.0007
4900	100	Unbiased-168Hr-Anneal	1.0787	1.0753	-0.0034
9300	0	CORRELATION	1.0777	1.0778	0.0001
9400	0	CORRELATION	1.0696	1.0695	-0.0001
9500	0	CORRELATION	1.0769	1.0764	-0.0005
9600	0	CORRELATION	1.086	1.0856	-0.0004
9700	0	CORRELATION	1.0796	1.0795	-0.0001

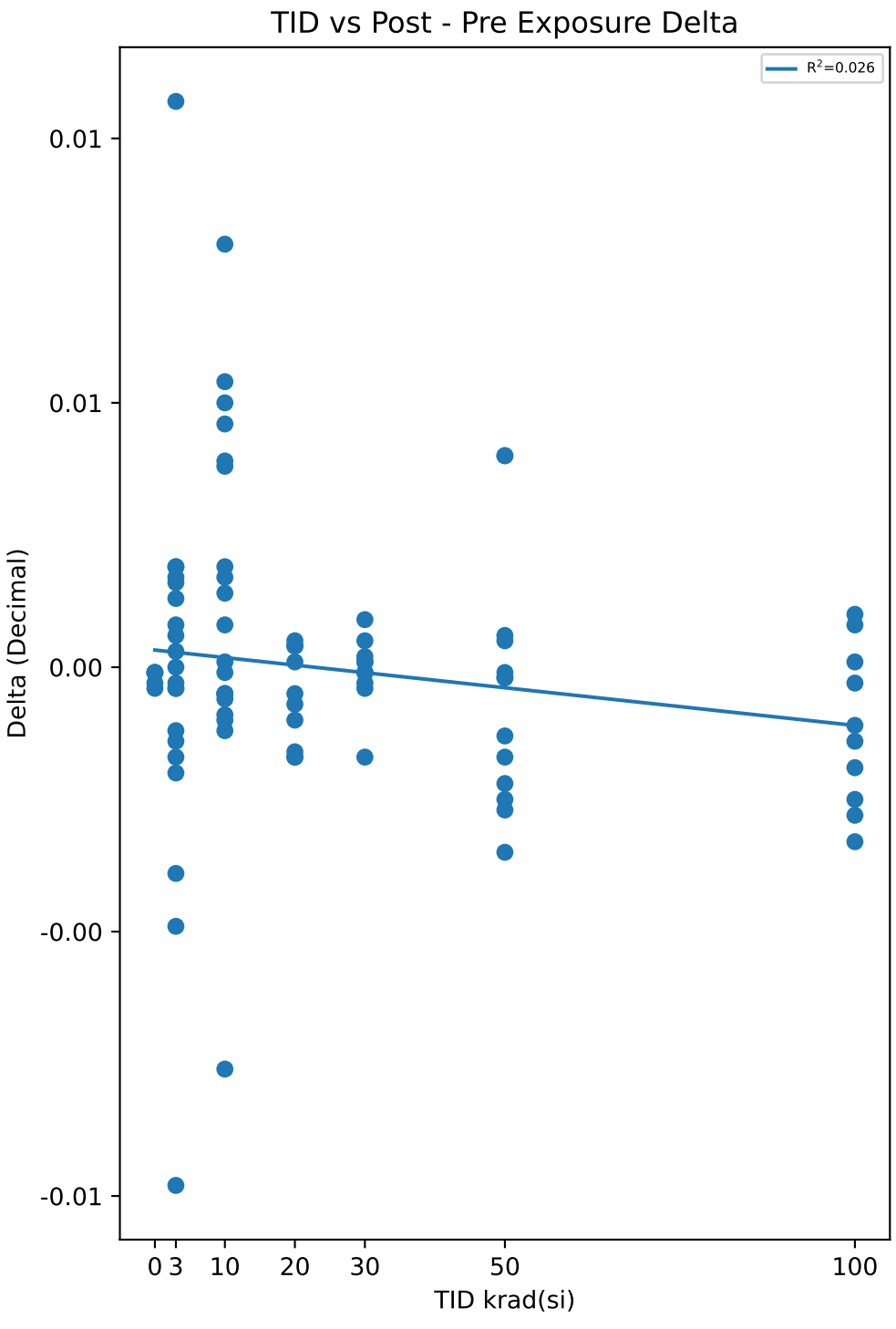


Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0696	1.078	1.086	0.0058824	1.0695	1.0778	1.0856	0.0058003	-0.0005	-0.0002	0.0001	0.00024495
3	1.0712	1.078	1.0853	0.0043487	1.0677	1.0772	1.0864	0.0059913	-0.0102	-0.00081	0.0108	0.0054621
10	1.0697	1.0755	1.0815	0.0042498	1.0712	1.0779	1.0823	0.0039084	-0.0079	0.00236	0.0085	0.00469
20	1.065	1.0761	1.0899	0.0065779	1.0647	1.0755	1.0882	0.0062992	-0.0019	-0.00057	0.0005	0.00094874
30	1.0643	1.076	1.0833	0.006317	1.0644	1.0761	1.083	0.0062116	-0.0012	2e-05	0.0015	0.00069889
50	1.0696	1.0766	1.0834	0.004362	1.0681	1.0758	1.082	0.0050813	-0.0031	-0.00086	0.0037	0.0020592
100	1.0686	1.0764	1.0826	0.003989	1.0654	1.0751	1.0813	0.0043352	-0.0034	-0.00132	0.0007	0.0015317

Device Test: 23.13 THRESHOLD|FALL/PWRGD/5////@VSENSE_VTH_FALLING_GOOD





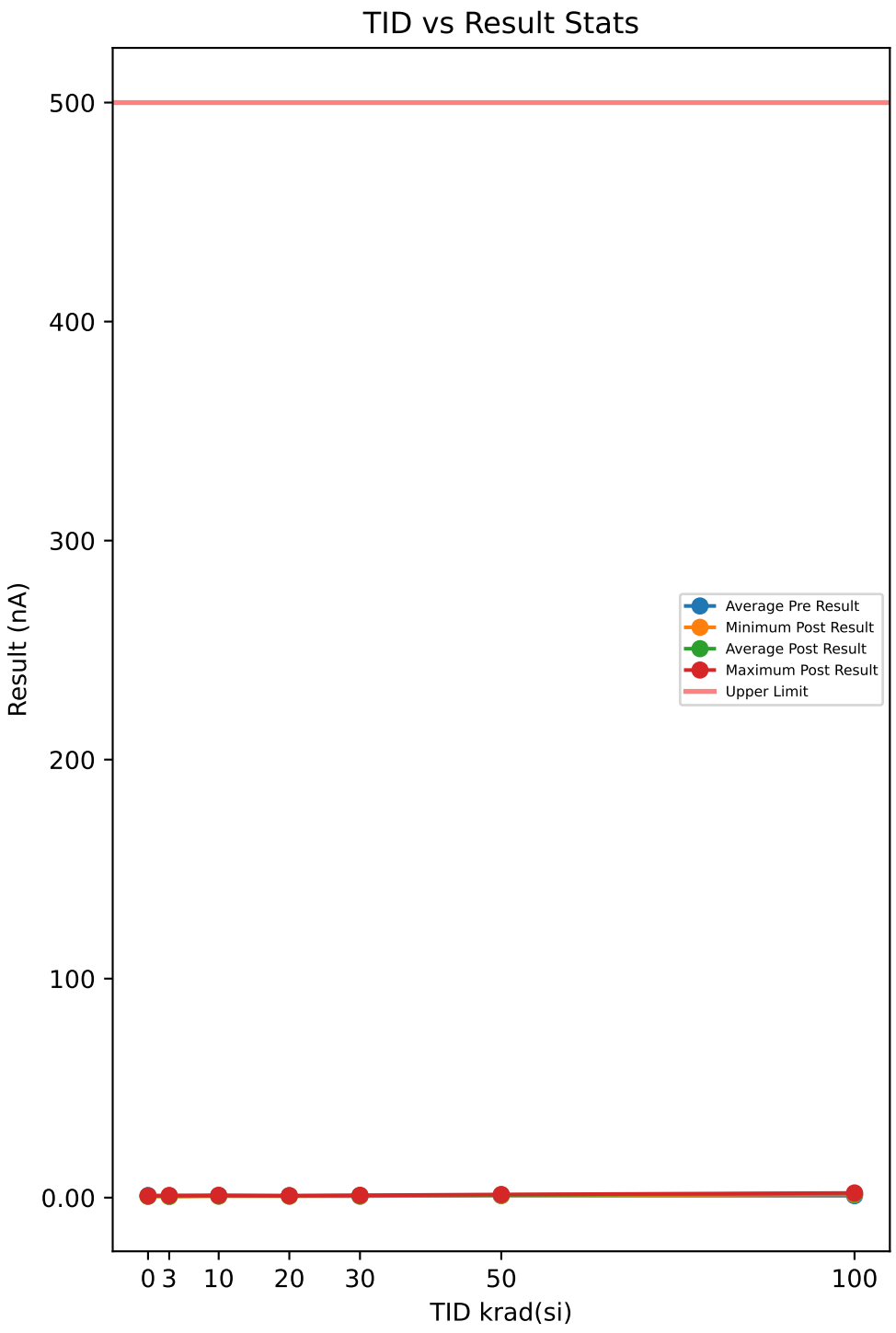
Test Results (Lower Limit = 1.02, Upper Limit = 1.09 (Decimal))

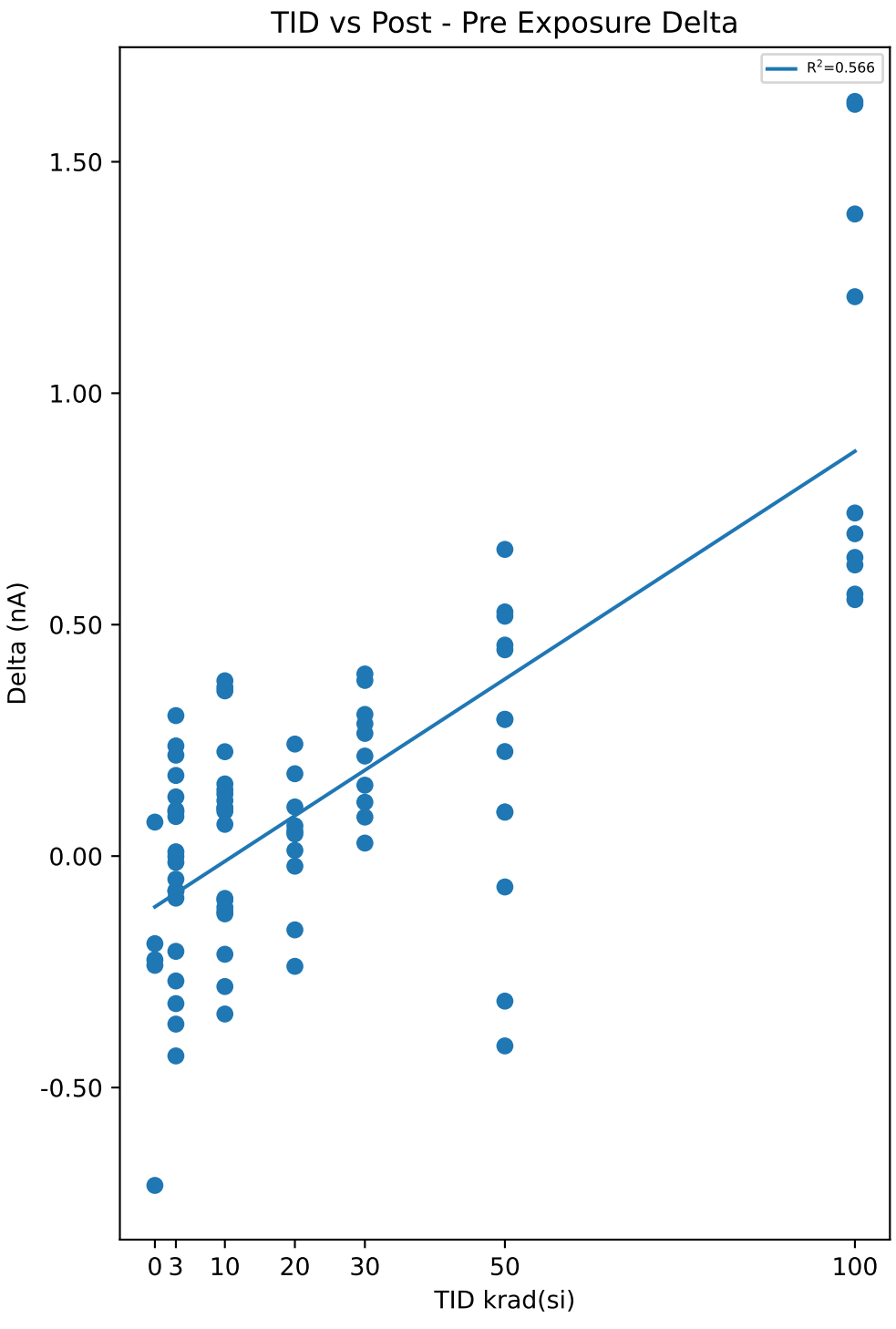
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0463	1.0443	-0.002
51	3	Biased	1.0505	1.0521	0.0016
52	3	Biased	1.0541	1.0549	0.0008
53	3	Biased	1.0436	1.0422	-0.0014
54	3	Biased	1.0468	1.037	-0.0098
55	3	Unbiased	1.0485	1.0436	-0.0049
56	3	Unbiased	1.0506	1.0489	-0.0017
57	3	Unbiased	1.0403	1.042	0.0017
58	3	Unbiased	1.0463	1.0424	-0.0039
59	3	Unbiased	1.0417	1.0524	0.0107
60	10	Biased	1.0468	1.0506	0.0038
61	10	Biased	1.0458	1.0446	-0.0012
62	10	Biased	1.0396	1.0446	0.005
63	10	Biased	1.0391	1.0437	0.0046
64	10	Biased	1.0425	1.0505	0.008
65	10	Unbiased	1.0392	1.0446	0.0054
66	10	Unbiased	1.047	1.0509	0.0039
67	10	Unbiased	1.0504	1.0505	0.0001
68	10	Unbiased	1.0473	1.0467	-0.0006
69	10	Unbiased	1.0478	1.0402	-0.0076
100	20	Biased	1.0468	1.0451	-0.0017
200	20	Biased	1.0463	1.0456	-0.0007
300	20	Biased	1.0409	1.0413	0.0004
400	20	Biased	1.058	1.0563	-0.0017
500	20	Biased	1.0396	1.0386	-0.001
600	20	Unbiased	1.0341	1.0336	-0.0005
700	20	Unbiased	1.0439	1.0443	0.0004
800	20	Unbiased	1.0498	1.0503	0.0005
900	20	Unbiased	1.0454	1.0455	0.0001
1000	20	Unbiased	1.0445	1.0429	-0.0016
1100	30	Biased	1.0516	1.0513	-0.0003
1200	30	Biased	1.0431	1.0433	0.0002
1300	30	Biased	1.0504	1.0513	0.0009
1400	30	Biased	1.052	1.0516	-0.0004
1500	30	Biased	1.0441	1.044	-0.0001
1600	30	Unbiased	1.0334	1.0335	0.0001
1700	30	Unbiased	1.0407	1.0408	0.0001
1800	30	Unbiased	1.039	1.0395	0.0005
1900	30	Unbiased	1.05	1.0483	-0.0017
2000	30	Unbiased	1.0449	1.0448	-0.0001
2100	50	Biased-84Hr-Anneal	1.0454	1.0494	0.004
2200	50	Biased-84Hr-Anneal	1.0517	1.0504	-0.0013
2300	50	Biased-84Hr-Anneal	1.0497	1.0496	-0.0001
2400	50	Biased-84Hr-Anneal	1.0448	1.0421	-0.0027
2500	50	Biased-84Hr-Anneal	1.0425	1.0431	0.0006
2600	50	Unbiased	1.0432	1.0407	-0.0025
2700	50	Unbiased	1.0504	1.0482	-0.0022
2800	50	Unbiased	1.0466	1.0471	0.0005
2900	50	Unbiased	1.0418	1.0383	-0.0035
3000	50	Unbiased	1.0387	1.037	-0.0017
4000	100	Biased-168Hr-Anneal	1.0458	1.0466	0.0008
4100	100	Biased-168Hr-Anneal	1.0373	1.0345	-0.0028
4200	100	Biased-168Hr-Anneal	1.0454	1.0435	-0.0019
4300	100	Biased-168Hr-Anneal	1.0512	1.0498	-0.0014
4400	100	Biased-168Hr-Anneal	1.0466	1.0441	-0.0025
4500	100	Unbiased-168Hr-Anneal	1.0485	1.0486	0.0001
4600	100	Unbiased-168Hr-Anneal	1.0426	1.0423	-0.0003
4700	100	Unbiased-168Hr-Anneal	1.0451	1.044	-0.0011
4800	100	Unbiased-168Hr-Anneal	1.0416	1.0426	0.001
4900	100	Unbiased-168Hr-Anneal	1.0474	1.0441	-0.0033
9300	0	CORRELATION	1.0466	1.0465	-0.0001
9400	0	CORRELATION	1.0387	1.0386	-0.0001
9500	0	CORRELATION	1.0458	1.0454	-0.0004
9600	0	CORRELATION	1.0544	1.0541	-0.0003
9700	0	CORRELATION	1.0485	1.0484	-0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0387	1.0468	1.0544	0.0056414	1.0386	1.0466	1.0541	0.0055888	-0.0004	-0.0002	-0.0001	0.00014142
3	1.0403	1.0469	1.0541	0.0042591	1.037	1.046	1.0549	0.0057623	-0.0098	-0.00089	0.0107	0.0053413
10	1.0391	1.0445	1.0504	0.0041097	1.0402	1.0467	1.0509	0.0037448	-0.0076	0.00214	0.008	0.0045061
20	1.0341	1.0449	1.058	0.0063537	1.0336	1.0444	1.0563	0.0061616	-0.0017	-0.00058	0.0005	0.00090037
30	1.0334	1.0449	1.052	0.0061476	1.0335	1.0448	1.0516	0.0059409	-0.0017	-8e-05	0.0009	0.00068443
50	1.0387	1.0455	1.0517	0.0041635	1.037	1.0446	1.0504	0.0049671	-0.0035	-0.00089	0.004	0.0022088
100	1.0373	1.0452	1.0512	0.0038902	1.0345	1.044	1.0498	0.0041757	-0.0033	-0.00114	0.001	0.0015094

Device Test: 23.14 LEAK|MAX/PWRGD/5////@PWRGD_OUTPUT_HIGH_LEAK





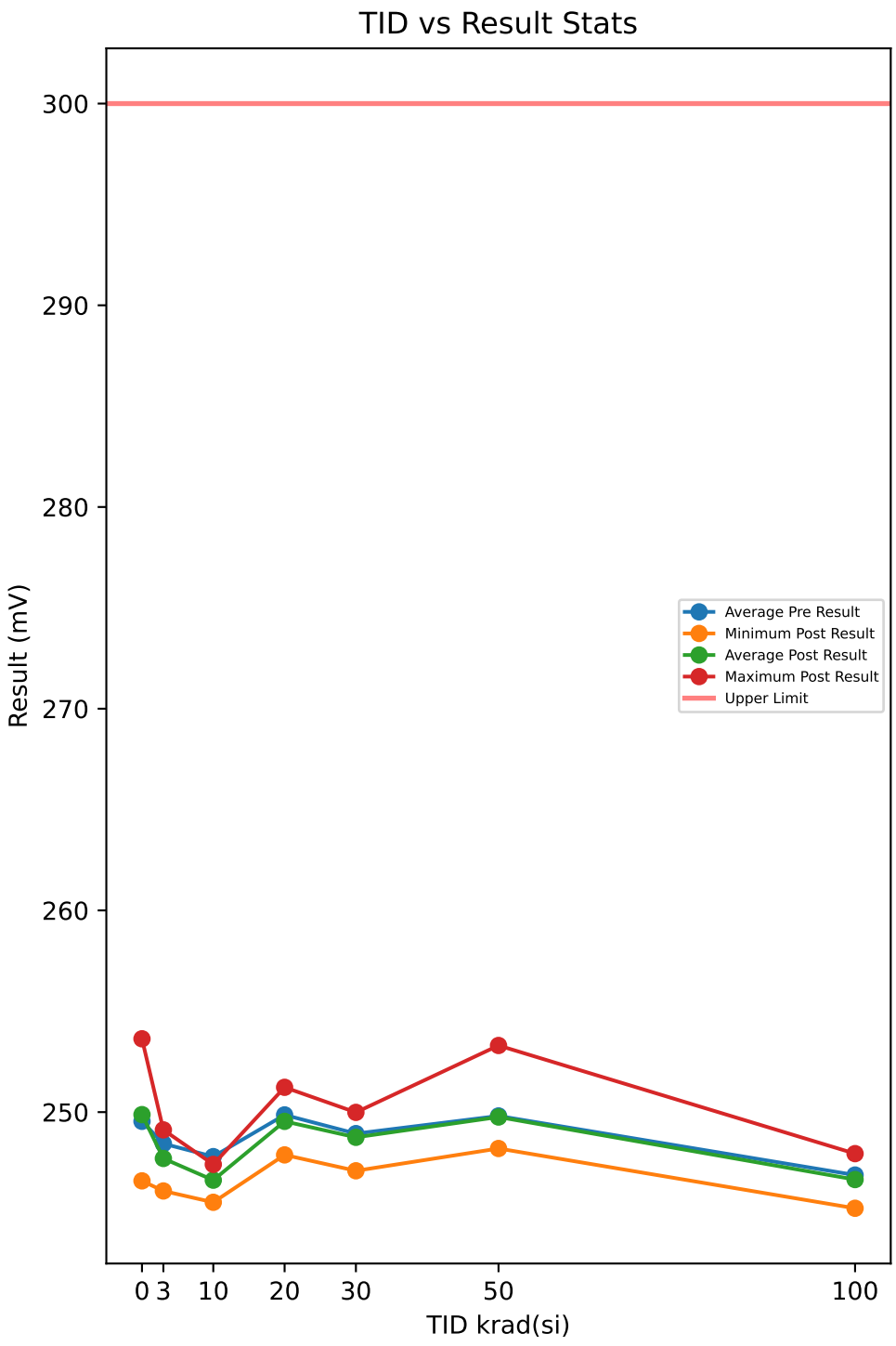
Test Results (Upper Limit = 500.0 (nA))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.7566	0.9308	0.1742
51	3	Biased	0.6222	0.6085	-0.0137
52	3	Biased	0.6035	0.5127	-0.0908
53	3	Biased	0.795	0.5252	-0.2698
54	3	Biased	0.8316	0.8308	-0.0008
55	3	Unbiased	0.9531	0.6344	-0.3187
56	3	Unbiased	0.5348	0.6303	0.0955
57	3	Unbiased	0.6768	0.471	-0.2058
58	3	Unbiased	0.791	1.009	0.218
59	3	Unbiased	0.7377	0.837	0.0993
60	10	Biased	0.7721	0.6522	-0.1199
61	10	Biased	0.5741	0.931	0.3569
62	10	Biased	0.716	1.0809	0.3649
63	10	Biased	0.7096	0.8436	0.134
64	10	Biased	0.6878	0.7927	0.1049
65	10	Unbiased	0.7452	0.8652	0.12
66	10	Unbiased	0.7629	0.6522	-0.1107
67	10	Unbiased	0.8189	0.9215	0.1026
68	10	Unbiased	0.6191	0.7625	0.1434
69	10	Unbiased	0.8136	0.7187	-0.0949
100	20	Biased	1.0145	0.7763	-0.2382
200	20	Biased	0.7098	0.7576	0.0478
300	20	Biased	0.7159	0.822	0.1061
400	20	Biased	0.616	0.7939	0.1779
500	20	Biased	0.7172	0.7825	0.0653
600	20	Unbiased	0.8784	0.8907	0.0123
700	20	Unbiased	0.7783	0.7565	-0.0218
800	20	Unbiased	0.7814	0.8354	0.054
900	20	Unbiased	0.683	0.925	0.242
1000	20	Unbiased	0.8128	0.6534	-0.1594
1100	30	Biased	0.719	0.8354	0.1164
1200	30	Biased	0.6191	1.0125	0.3934
1300	30	Biased	0.711	0.9969	0.2859
1400	30	Biased	0.816	0.9692	0.1532
1500	30	Biased	0.7128	0.7409	0.0281
1600	30	Unbiased	0.7252	0.8095	0.0843
1700	30	Unbiased	0.515	0.8945	0.3795
1800	30	Unbiased	0.816	1.0811	0.2651
1900	30	Unbiased	0.6222	0.9282	0.306
2000	30	Unbiased	0.6815	0.8976	0.2161
2100	50	Biased-84Hr-Anneal	1.1416	1.437	0.2954
2200	50	Biased-84Hr-Anneal	1.2883	1.2216	-0.0667
2300	50	Biased-84Hr-Anneal	1.4163	1.0062	-0.4101
2400	50	Biased-84Hr-Anneal	1.4194	1.1061	-0.3133
2500	50	Biased-84Hr-Anneal	0.846	1.0718	0.2258
2600	50	Unbiased	0.7879	1.2336	0.4457
2700	50	Unbiased	0.8033	1.3215	0.5182
2800	50	Unbiased	0.7034	1.1592	0.4558
2900	50	Unbiased	0.5586	1.2212	0.6626
3000	50	Unbiased	0.6317	1.1592	0.5275
4000	100	Biased-168Hr-Anneal	0.3499	1.974	1.6241
4100	100	Biased-168Hr-Anneal	0.8373	1.4825	0.6452
4200	100	Biased-168Hr-Anneal	1.5791	2.1451	0.566
4300	100	Biased-168Hr-Anneal	0.8373	2.0458	1.2085
4400	100	Biased-168Hr-Anneal	0.5122	2.1426	1.6304
4500	100	Unbiased-168Hr-Anneal	1.1545	1.7086	0.5541
4600	100	Unbiased-168Hr-Anneal	0.8998	1.5962	0.6964
4700	100	Unbiased-168Hr-Anneal	1.3075	1.9365	0.629
4800	100	Unbiased-168Hr-Anneal	0.5028	1.89	1.3872
4900	100	Unbiased-168Hr-Anneal	0.9279	1.6691	0.7412
9300	0	CORRELATION	0.6394	0.7128	0.0734
9400	0	CORRELATION	0.802	0.566	-0.236
9500	0	CORRELATION	1.41	0.6985	-0.7115
9600	0	CORRELATION	0.793	0.5692	-0.2238
9700	0	CORRELATION	1.0206	0.8314	-0.1892

Test Statistics (nA)

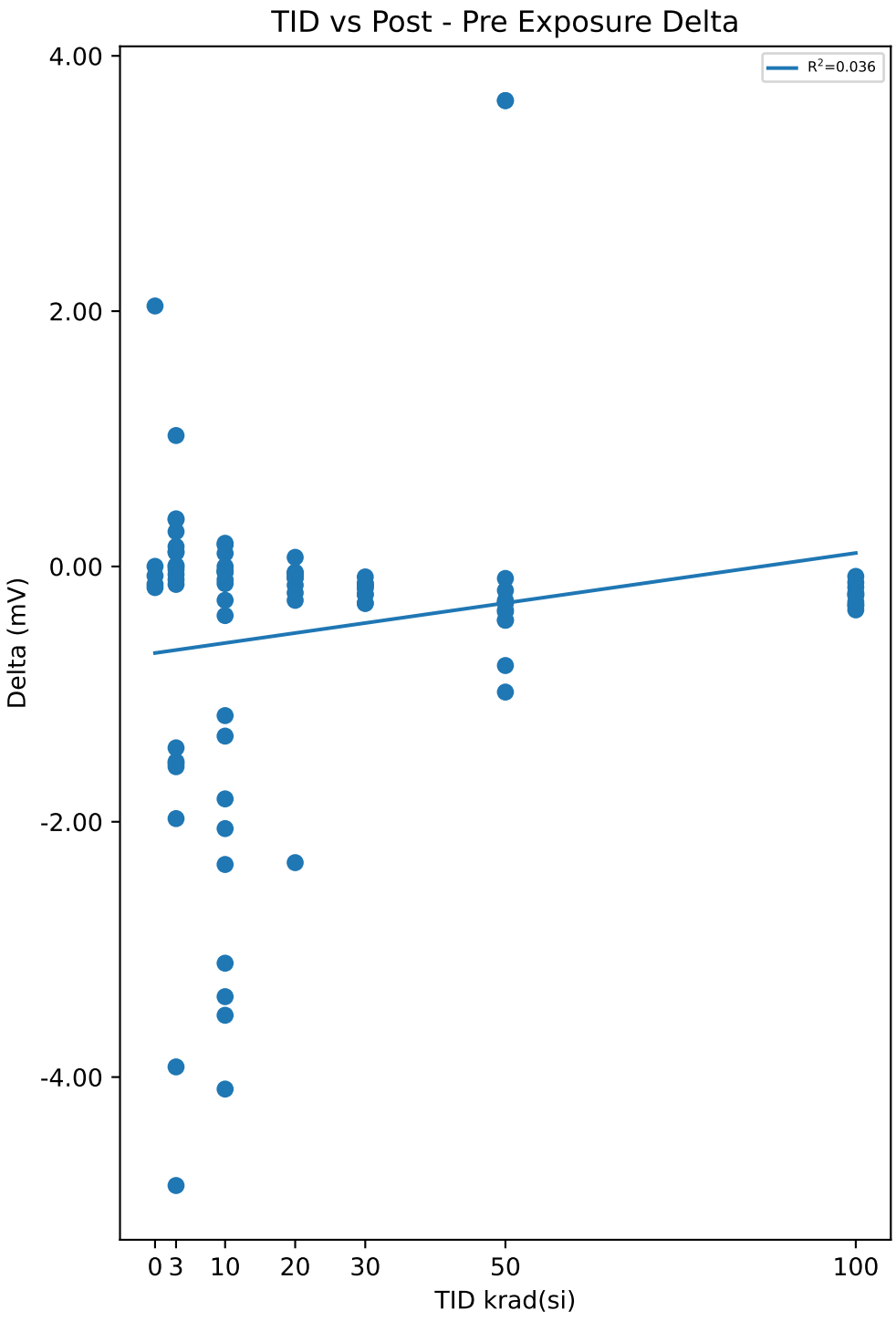
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6394	0.933	1.41	0.29923	0.566	0.67558	0.8314	0.11126	-0.7115	-0.25742	0.0734	0.28367
3	0.5348	0.73023	0.9531	0.12354	0.471	0.69897	1.009	0.18863	-0.3187	-0.03126	0.218	0.18626
10	0.5741	0.72193	0.8189	0.079109	0.6522	0.82205	1.0809	0.13494	-0.1199	0.10012	0.3649	0.17333
20	0.616	0.77073	1.0145	0.11264	0.6534	0.79933	0.925	0.075771	-0.2382	0.0286	0.242	0.14358
30	0.515	0.69378	0.816	0.091269	0.7409	0.91658	1.0811	0.10295	0.0281	0.2228	0.3934	0.12457
50	0.5586	0.95965	1.4194	0.32693	1.0062	1.1937	1.437	0.12415	-0.4101	0.23409	0.6626	0.37317
100	0.3499	0.89083	1.5791	0.3816	1.4825	1.859	2.1451	0.23259	0.5541	0.96821	1.6304	0.44473

Device Test: 23.15 VOL|2mA/PWRGD/5////@PWRGD_OUTPUT_LOW



Test Results (Upper Limit = 300.0 (mV))

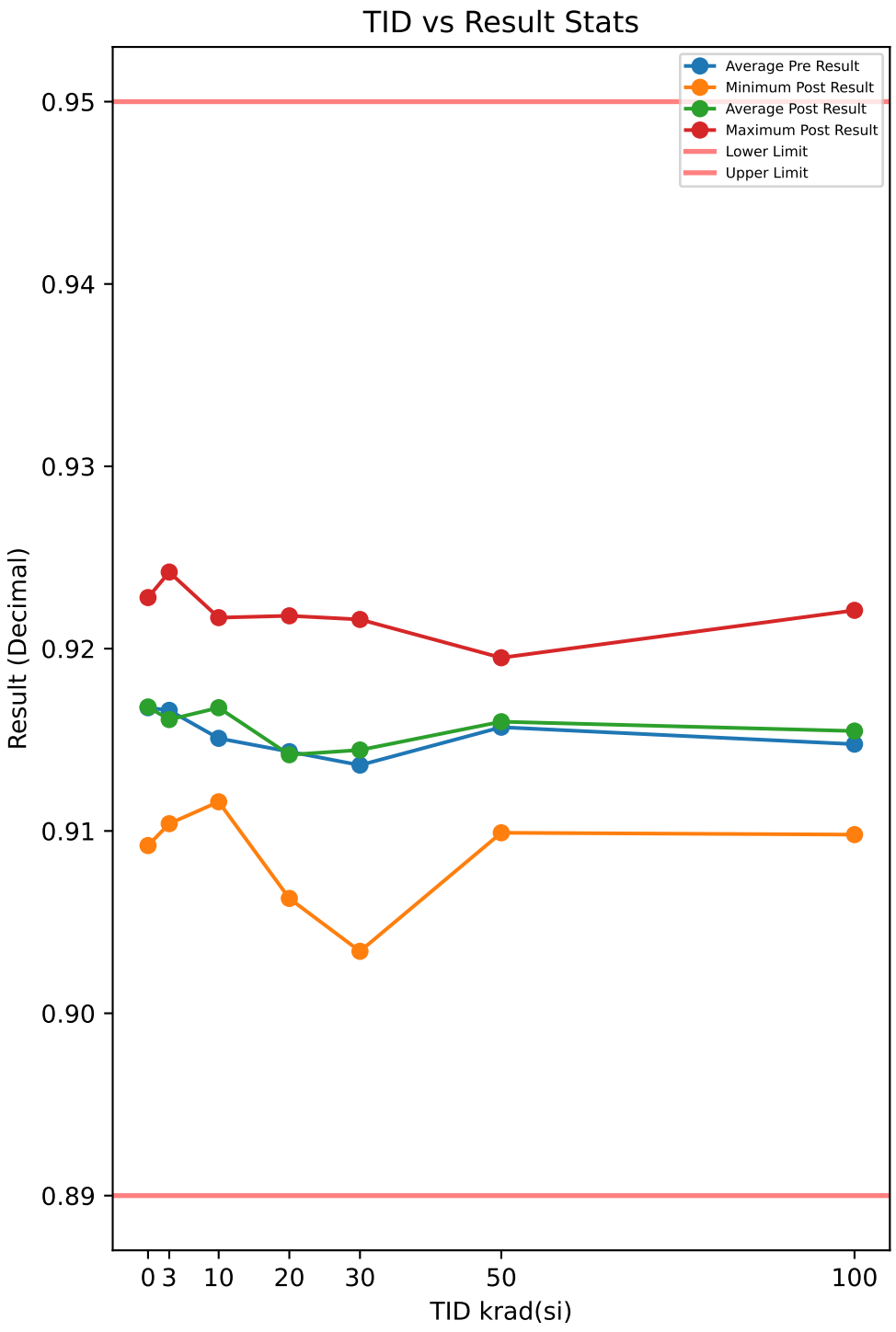
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	249.27	247.71	-1.5687
51	3	Biased	252.56	247.71	-4.8496
52	3	Biased	250.01	246.09	-3.9203
53	3	Biased	249.09	247.54	-1.5434
54	3	Biased	247.96	248.99	1.0258
55	3	Unbiased	248.64	246.67	-1.9752
56	3	Unbiased	248.75	249.12	0.373
57	3	Unbiased	249.06	247.53	-1.5289
58	3	Unbiased	247.01	247.28	0.2734
59	3	Unbiased	249.8	248.38	-1.4209
60	10	Biased	250.45	246.93	-3.5159
61	10	Biased	248.06	246.89	-1.1683
62	10	Biased	248.2	246.38	-1.8208
63	10	Biased	249.33	247.28	-2.0534
64	10	Biased	250.26	246.17	-4.0939
65	10	Unbiased	249.12	246.78	-2.3346
66	10	Unbiased	247.45	247.18	-0.2648
67	10	Unbiased	248.74	247.41	-1.3289
68	10	Unbiased	248.64	245.53	-3.108
69	10	Unbiased	249.09	245.72	-3.37
100	20	Biased	250.73	248.41	-2.3201
200	20	Biased	250.09	250.04	-0.0475
300	20	Biased	250.97	250.88	-0.0937
400	20	Biased	251.28	251.23	-0.0468
500	20	Biased	249.99	249.73	-0.2655
600	20	Unbiased	248.03	247.88	-0.1465
700	20	Unbiased	249.72	249.79	0.0715
800	20	Unbiased	250.06	249.85	-0.2066
900	20	Unbiased	248.15	248.07	-0.0831
1000	20	Unbiased	249.6	249.54	-0.0596
1100	30	Biased	250.06	249.93	-0.1351
1200	30	Biased	250.01	249.72	-0.2901
1300	30	Biased	247.24	247.09	-0.1524
1400	30	Biased	249.65	249.48	-0.1724
1500	30	Biased	248.61	248.39	-0.2186
1600	30	Unbiased	248.97	248.81	-0.1562
1700	30	Unbiased	248.93	248.71	-0.2186
1800	30	Unbiased	250.27	249.99	-0.2872
1900	30	Unbiased	248.38	248.25	-0.1318
2000	30	Unbiased	247.22	247.13	-0.0819
2100	50	Biased-84Hr-Anneal	248.62	252.27	3.6496
2200	50	Biased-84Hr-Anneal	249.65	248.87	-0.776
2300	50	Biased-84Hr-Anneal	250.08	249.73	-0.3542
2400	50	Biased-84Hr-Anneal	248.77	248.49	-0.2802
2500	50	Biased-84Hr-Anneal	250.75	250.41	-0.3421
2600	50	Unbiased	249.02	248.76	-0.2663
2700	50	Unbiased	249.03	248.85	-0.1874
2800	50	Unbiased	249.29	249.2	-0.0938
2900	50	Unbiased	254.29	253.3	-0.984
3000	50	Unbiased	248.59	248.3	-0.2871
4000	100	Biased-168Hr-Anneal	247.7	247.48	-0.2209
4100	100	Biased-168Hr-Anneal	245.79	245.67	-0.1249
4200	100	Biased-168Hr-Anneal	245.86	245.63	-0.2263
4300	100	Biased-168Hr-Anneal	245.51	245.23	-0.2771
4400	100	Biased-168Hr-Anneal	247.08	246.77	-0.3078
4500	100	Unbiased-168Hr-Anneal	247.63	247.33	-0.3003
4600	100	Unbiased-168Hr-Anneal	245.49	245.29	-0.2074
4700	100	Unbiased-168Hr-Anneal	248.28	247.94	-0.3403
4800	100	Unbiased-168Hr-Anneal	247.58	247.42	-0.1623
4900	100	Unbiased-168Hr-Anneal	247.88	247.81	-0.0778
9300	0	CORRELATION	248.54	250.58	2.0405
9400	0	CORRELATION	253.8	253.63	-0.1654
9500	0	CORRELATION	248.77	248.77	0.0009
9600	0	CORRELATION	249.94	249.8	-0.1392
9700	0	CORRELATION	246.66	246.59	-0.0728

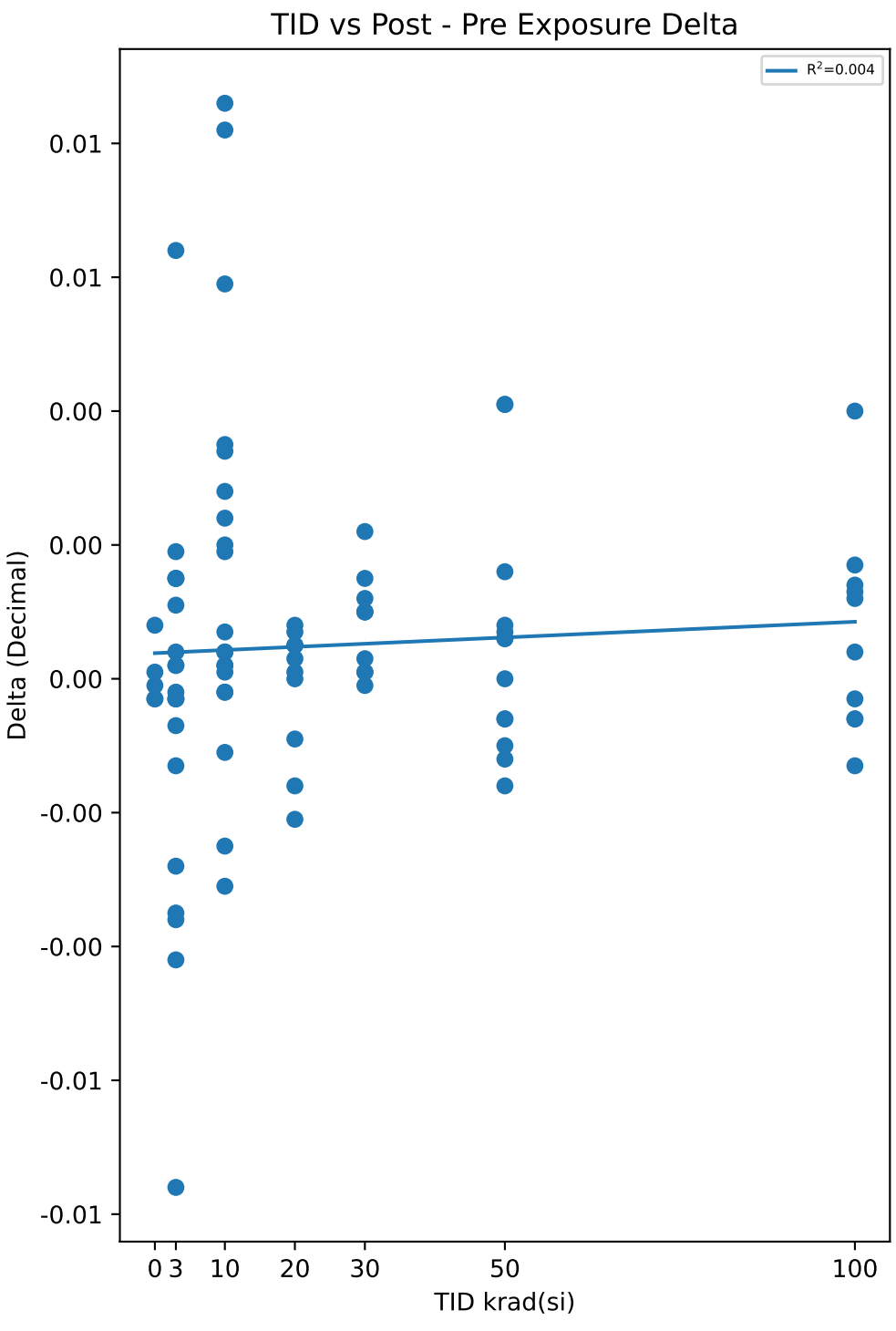


Test Statistics (mV)

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	246.66	249.54	253.8	2.6536	246.59	249.88	253.63	2.5803	-0.1654	0.3328	2.0405	0.9568
3	247.01	249.22	252.56	1.4609	246.09	247.7	249.12	0.94376	-4.8496	-1.5135	1.0258	1.8363
10	247.45	248.93	250.45	0.93818	245.53	246.63	247.41	0.65298	-4.0939	-2.3059	-0.2648	1.2088
20	248.03	249.86	251.28	1.0797	247.88	249.54	251.23	1.1197	-2.3201	-0.31979	0.0715	0.70896
30	247.22	248.93	250.27	1.104	247.09	248.75	249.99	1.0615	-0.2901	-0.18443	-0.0819	0.068106
50	248.59	249.81	254.29	1.7163	248.3	249.82	253.3	1.6965	-0.984	0.00785	3.6496	1.3084
100	245.49	246.88	248.28	1.093	245.23	246.66	247.94	1.0861	-0.3403	-0.22451	-0.0778	0.084643

Device Test: 23.17 THRESHOLD|FALL/PWRGD/12////@VSENSE_VTH_FALLING_FAULT





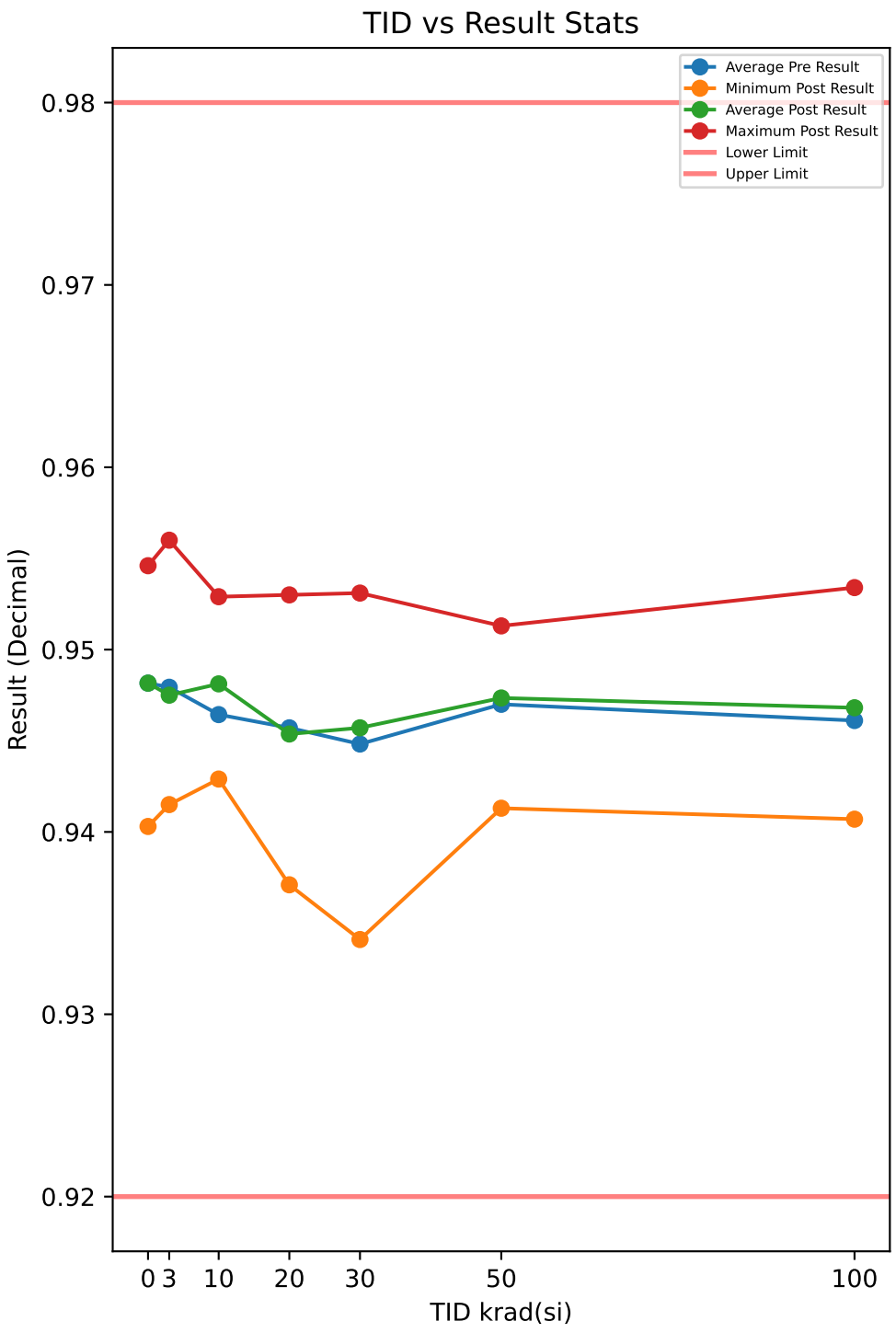
Test Results (Lower Limit = 0.89, Upper Limit = 0.95 (Decimal))

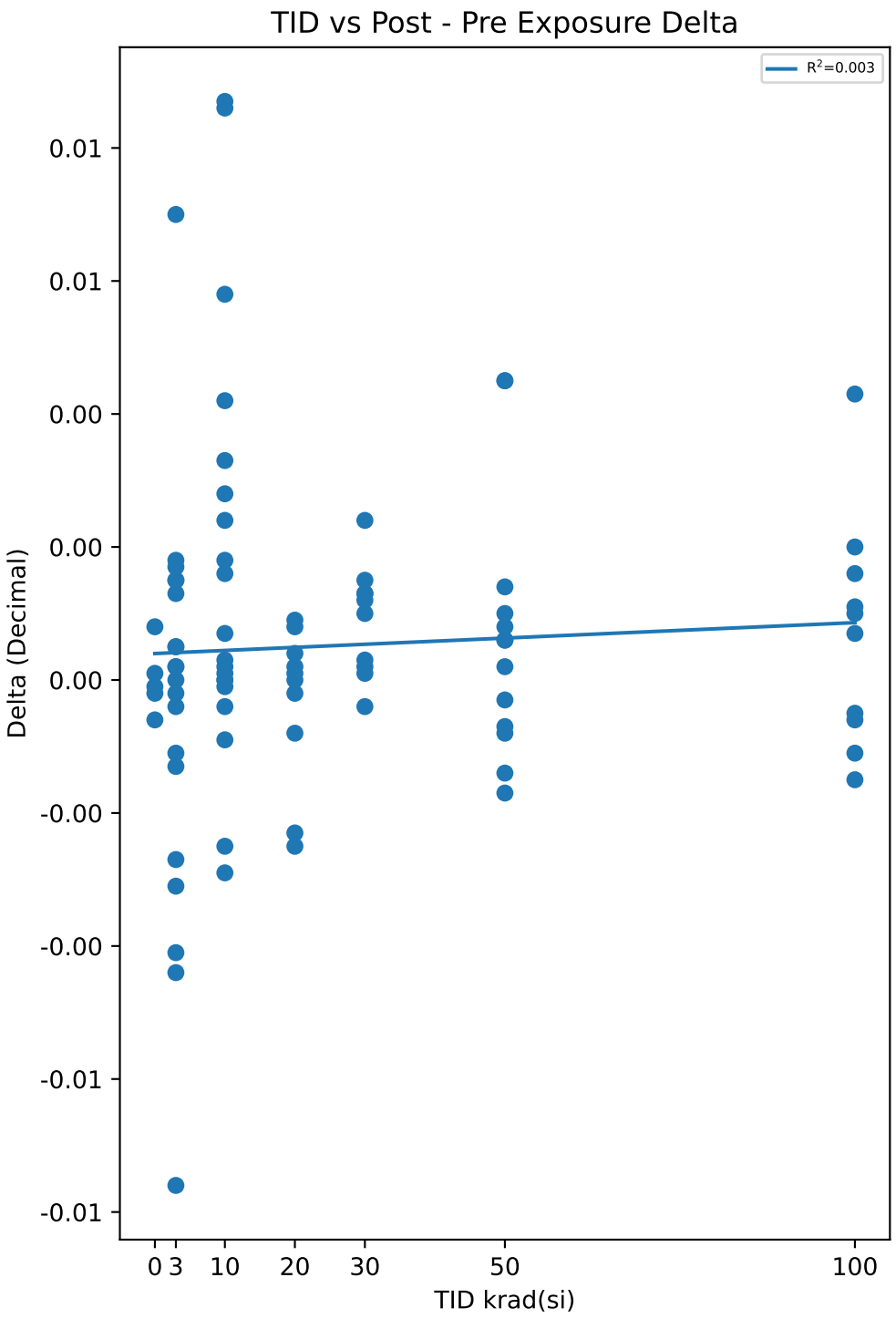
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9164	0.9151	-0.0013
51	3	Biased	0.9227	0.9225	-0.0002
52	3	Biased	0.9227	0.9242	0.0015
53	3	Biased	0.9152	0.9116	-0.0036
54	3	Biased	0.9146	0.9104	-0.0042
55	3	Unbiased	0.9176	0.9141	-0.0035
56	3	Unbiased	0.9215	0.9187	-0.0028
57	3	Unbiased	0.911	0.9125	0.0015
58	3	Unbiased	0.9191	0.9115	-0.0076
59	3	Unbiased	0.9141	0.9205	0.0064
60	10	Biased	0.9158	0.9217	0.0059
61	10	Biased	0.9162	0.9164	0.0002
62	10	Biased	0.9116	0.9151	0.0035
63	10	Biased	0.9092	0.9116	0.0024
64	10	Biased	0.9117	0.9203	0.0086
65	10	Unbiased	0.9084	0.9166	0.0082
66	10	Unbiased	0.9171	0.9205	0.0034
67	10	Unbiased	0.918	0.9187	0.0007
68	10	Unbiased	0.9166	0.9141	-0.0025
69	10	Unbiased	0.9157	0.9126	-0.0031
100	20	Biased	0.9178	0.9157	-0.0021
200	20	Biased	0.9149	0.9156	0.0007
300	20	Biased	0.9098	0.9103	0.0005
400	20	Biased	0.9234	0.9218	-0.0016
500	20	Biased	0.91	0.9101	0.0001
600	20	Unbiased	0.9063	0.9063	0
700	20	Unbiased	0.9154	0.9162	0.0008
800	20	Unbiased	0.9183	0.9186	0.0003
900	20	Unbiased	0.9139	0.9144	0.0005
1000	20	Unbiased	0.9137	0.9128	-0.0009
1100	30	Biased	0.9189	0.9199	0.001
1200	30	Biased	0.9149	0.9159	0.001
1300	30	Biased	0.9194	0.9216	0.0022
1400	30	Biased	0.9176	0.9186	0.001
1500	30	Biased	0.9131	0.9143	0.0012
1600	30	Unbiased	0.9019	0.9034	0.0015
1700	30	Unbiased	0.91	0.9101	0.0001
1800	30	Unbiased	0.9092	0.9093	0.0001
1900	30	Unbiased	0.9165	0.9168	0.0003
2000	30	Unbiased	0.9146	0.9145	-0.0001
2100	50	Biased-84Hr-Anneal	0.9145	0.9186	0.0041
2200	50	Biased-84Hr-Anneal	0.9193	0.9193	0
2300	50	Biased-84Hr-Anneal	0.9188	0.9195	0.0007
2400	50	Biased-84Hr-Anneal	0.9159	0.9147	-0.0012
2500	50	Biased-84Hr-Anneal	0.9157	0.9173	0.0016
2600	50	Unbiased	0.9155	0.9139	-0.0016
2700	50	Unbiased	0.918	0.917	-0.001
2800	50	Unbiased	0.9165	0.9173	0.0008
2900	50	Unbiased	0.9122	0.9116	-0.0006
3000	50	Unbiased	0.9105	0.9099	-0.0006
4000	100	Biased-168Hr-Anneal	0.9153	0.9193	0.004
4100	100	Biased-168Hr-Anneal	0.9104	0.9098	-0.0006
4200	100	Biased-168Hr-Anneal	0.9135	0.9152	0.0017
4300	100	Biased-168Hr-Anneal	0.9208	0.9221	0.0013
4400	100	Biased-168Hr-Anneal	0.9145	0.9159	0.0014
4500	100	Unbiased-168Hr-Anneal	0.9164	0.9176	0.0012
4600	100	Unbiased-168Hr-Anneal	0.9113	0.911	-0.0003
4700	100	Unbiased-168Hr-Anneal	0.9175	0.9162	-0.0013
4800	100	Unbiased-168Hr-Anneal	0.9115	0.9119	0.0004
4900	100	Unbiased-168Hr-Anneal	0.9164	0.9158	-0.0006
9300	0	CORRELATION	0.9169	0.9177	0.0008
9400	0	CORRELATION	0.9093	0.9092	-0.0001
9500	0	CORRELATION	0.9172	0.9169	-0.0003
9600	0	CORRELATION	0.9231	0.9228	-0.0003
9700	0	CORRELATION	0.9173	0.9174	0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9093	0.91676	0.9231	0.004908	0.9092	0.9168	0.9228	0.0048719	-0.0003	4e-05	0.0008	0.00045607
3	0.911	0.91749	0.9227	0.0039633	0.9104	0.91611	0.9242	0.004995	-0.0076	-0.00138	0.0064	0.0038958
10	0.9084	0.91403	0.918	0.0034766	0.9116	0.91676	0.9217	0.0034738	-0.0031	0.00273	0.0086	0.0040475
20	0.9063	0.91435	0.9234	0.0048974	0.9063	0.91418	0.9218	0.0044939	-0.0021	-0.00017	0.0008	0.0010122
30	0.9019	0.91361	0.9194	0.0053571	0.9034	0.91444	0.9216	0.00551	-0.0001	0.00083	0.0022	0.00072732
50	0.9105	0.91569	0.9193	0.0027751	0.9099	0.91591	0.9195	0.0032807	-0.0016	0.00022	0.0041	0.001691
100	0.9104	0.91476	0.9208	0.0032132	0.9098	0.91548	0.9221	0.003785	-0.0013	0.00072	0.004	0.001544

Device Test: 23.18 THRESHOLD|RISE/PWRGD/12////@VSENSE_VTH_RISING_GOOD





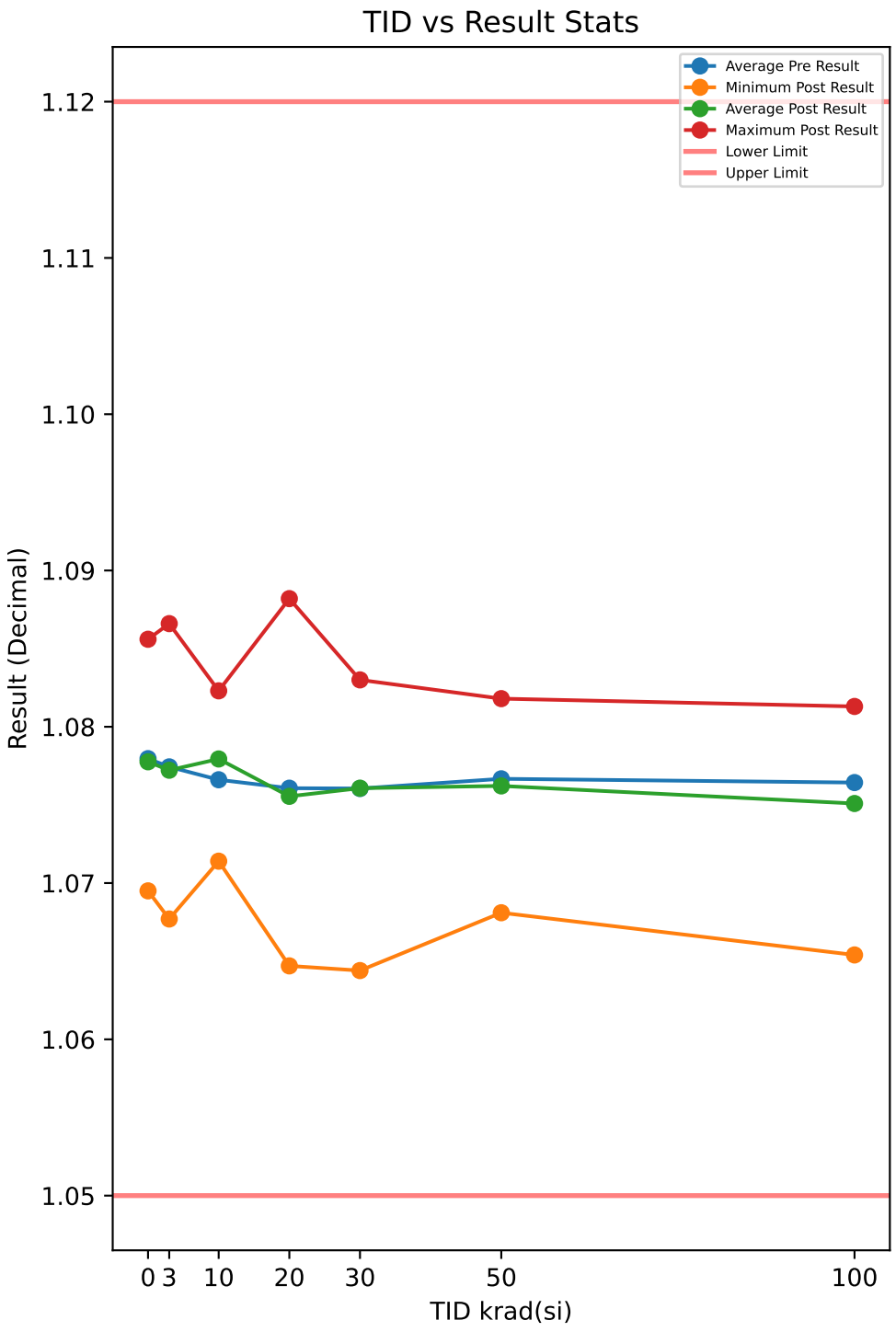
Test Results (Lower Limit = 0.92, Upper Limit = 0.98 (Decimal))

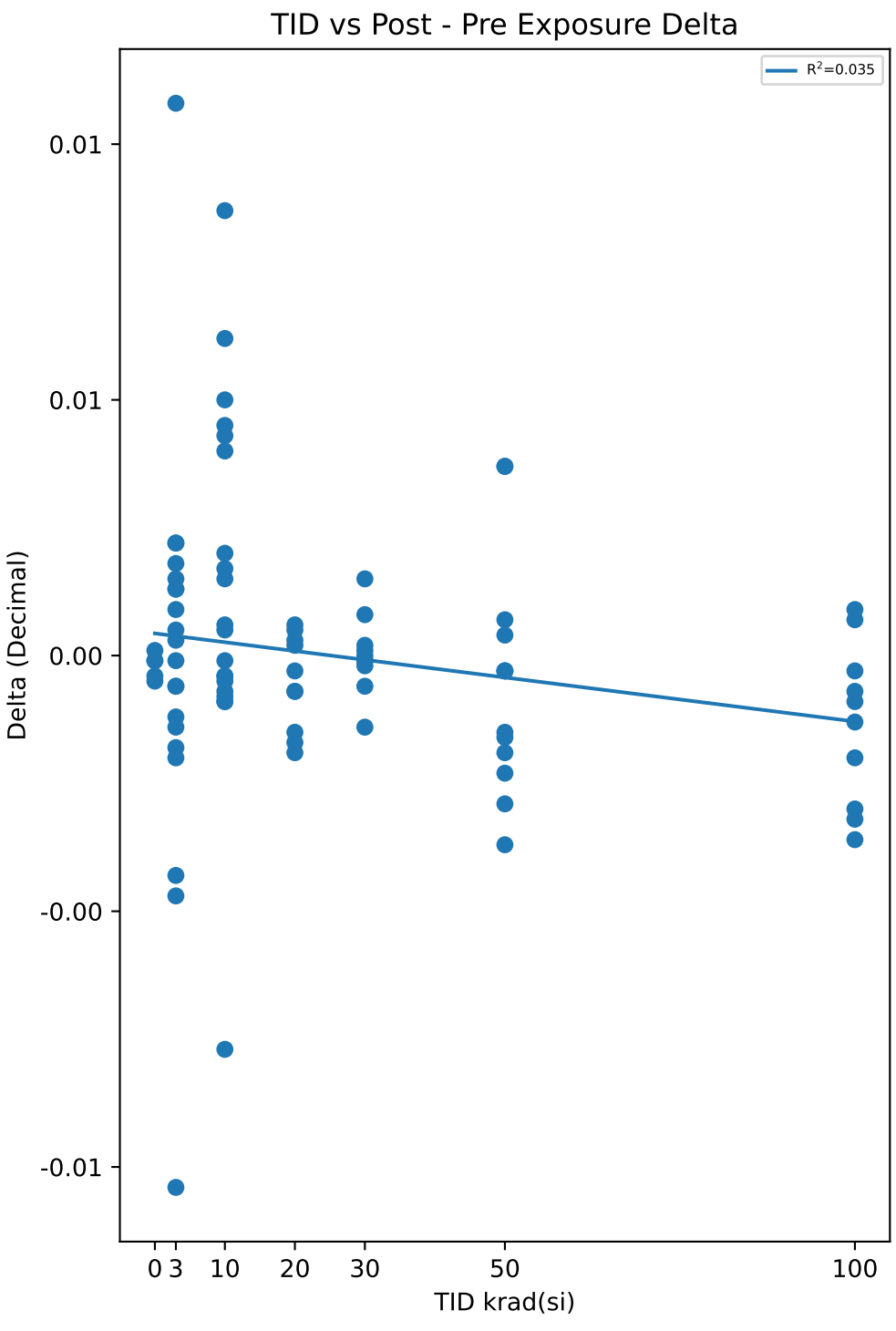
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9477	0.9464	-0.0013
51	3	Biased	0.9538	0.9538	0
52	3	Biased	0.9547	0.956	0.0013
53	3	Biased	0.9463	0.9432	-0.0031
54	3	Biased	0.9459	0.9415	-0.0044
55	3	Unbiased	0.9495	0.9454	-0.0041
56	3	Unbiased	0.953	0.9503	-0.0027
57	3	Unbiased	0.9418	0.9436	0.0018
58	3	Unbiased	0.9504	0.9428	-0.0076
59	3	Unbiased	0.945	0.952	0.007
60	10	Biased	0.9471	0.9529	0.0058
61	10	Biased	0.9474	0.9473	-0.0001
62	10	Biased	0.9424	0.9466	0.0042
63	10	Biased	0.9405	0.9429	0.0024
64	10	Biased	0.9432	0.9519	0.0087
65	10	Unbiased	0.9392	0.9478	0.0086
66	10	Unbiased	0.9486	0.9519	0.0033
67	10	Unbiased	0.9497	0.9504	0.0007
68	10	Unbiased	0.9481	0.9456	-0.0025
69	10	Unbiased	0.9468	0.9439	-0.0029
100	20	Biased	0.9493	0.9468	-0.0025
200	20	Biased	0.9462	0.9464	0.0002
300	20	Biased	0.9413	0.9414	0.0001
400	20	Biased	0.9553	0.953	-0.0023
500	20	Biased	0.9411	0.9415	0.0004
600	20	Unbiased	0.9373	0.9371	-0.0002
700	20	Unbiased	0.9469	0.9477	0.0008
800	20	Unbiased	0.9499	0.9499	0
900	20	Unbiased	0.945	0.9459	0.0009
1000	20	Unbiased	0.9448	0.944	-0.0008
1100	30	Biased	0.9504	0.9517	0.0013
1200	30	Biased	0.9459	0.9474	0.0015
1300	30	Biased	0.9507	0.9531	0.0024
1400	30	Biased	0.9489	0.9499	0.001
1500	30	Biased	0.9444	0.9456	0.0012
1600	30	Unbiased	0.9328	0.9341	0.0013
1700	30	Unbiased	0.9412	0.9413	0.0001
1800	30	Unbiased	0.9402	0.9405	0.0003
1900	30	Unbiased	0.9478	0.948	0.0002
2000	30	Unbiased	0.9459	0.9455	-0.0004
2100	50	Biased-84Hr-Anneal	0.9456	0.9501	0.0045
2200	50	Biased-84Hr-Anneal	0.9508	0.951	0.0002
2300	50	Biased-84Hr-Anneal	0.9505	0.9513	0.0008
2400	50	Biased-84Hr-Anneal	0.9472	0.9458	-0.0014
2500	50	Biased-84Hr-Anneal	0.9472	0.9486	0.0014
2600	50	Unbiased	0.9466	0.9449	-0.0017
2700	50	Unbiased	0.9492	0.9485	-0.0007
2800	50	Unbiased	0.9478	0.9488	0.001
2900	50	Unbiased	0.9435	0.9427	-0.0008
3000	50	Unbiased	0.9416	0.9413	-0.0003
4000	100	Biased-168Hr-Anneal	0.9466	0.9509	0.0043
4100	100	Biased-168Hr-Anneal	0.9413	0.9407	-0.0006
4200	100	Biased-168Hr-Anneal	0.9448	0.9468	0.002
4300	100	Biased-168Hr-Anneal	0.9523	0.9534	0.0011
4400	100	Biased-168Hr-Anneal	0.9457	0.9473	0.0016
4500	100	Unbiased-168Hr-Anneal	0.9478	0.9488	0.001
4600	100	Unbiased-168Hr-Anneal	0.943	0.9425	-0.0005
4700	100	Unbiased-168Hr-Anneal	0.9492	0.9477	-0.0015
4800	100	Unbiased-168Hr-Anneal	0.9427	0.9434	0.0007
4900	100	Unbiased-168Hr-Anneal	0.9477	0.9466	-0.0011
9300	0	CORRELATION	0.9484	0.9492	0.0008
9400	0	CORRELATION	0.9404	0.9403	-0.0001
9500	0	CORRELATION	0.9484	0.9478	-0.0006
9600	0	CORRELATION	0.9548	0.9546	-0.0002
9700	0	CORRELATION	0.9488	0.9489	0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9404	0.94816	0.9548	0.0051194	0.9403	0.94816	0.9546	0.0051238	-0.0006	0	0.0008	0.00051478
3	0.9418	0.94881	0.9547	0.0042139	0.9415	0.9475	0.956	0.0051364	-0.0076	-0.00131	0.007	0.0040728
10	0.9392	0.9453	0.9497	0.0036676	0.9429	0.94812	0.9529	0.0035137	-0.0029	0.00282	0.0087	0.004126
20	0.9373	0.94571	0.9553	0.0051297	0.9371	0.94537	0.953	0.0045773	-0.0025	-0.00034	0.0009	0.001189
30	0.9328	0.94482	0.9507	0.0055043	0.9341	0.94571	0.9531	0.0057503	-0.0004	0.00089	0.0024	0.0008306
50	0.9416	0.947	0.9508	0.0029017	0.9413	0.9473	0.9513	0.0034654	-0.0017	0.0003	0.0045	0.0017969
100	0.9413	0.94611	0.9523	0.0033301	0.9407	0.94681	0.9534	0.0038403	-0.0015	0.0007	0.0043	0.0017295

Device Test: 23.19 THRESHOLD|RISE/PWRGD/12////@VSENSE_VTH_RISING_FAULT





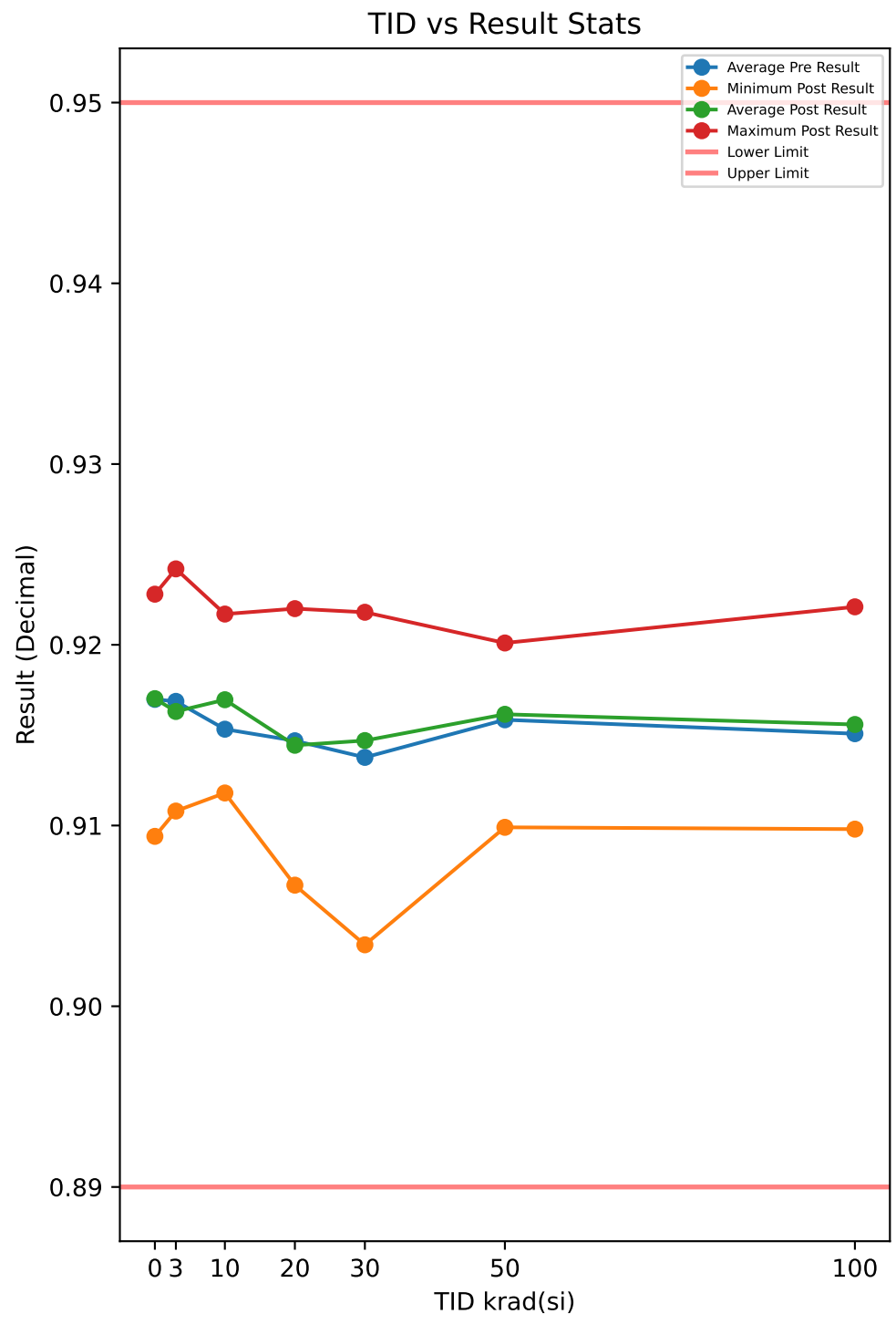
Test Results (Lower Limit = 1.05, Upper Limit = 1.12 (Decimal))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0774	1.0754	-0.002
51	3	Biased	1.0818	1.0836	0.0018
52	3	Biased	1.0853	1.0866	0.0013
53	3	Biased	1.0747	1.0735	-0.0012
54	3	Biased	1.0781	1.0677	-0.0104
55	3	Unbiased	1.0796	1.0749	-0.0047
56	3	Unbiased	1.0821	1.0803	-0.0018
57	3	Unbiased	1.0716	1.0731	0.0015
58	3	Unbiased	1.0775	1.0732	-0.0043
59	3	Unbiased	1.0731	1.0839	0.0108
60	10	Biased	1.0776	1.0819	0.0043
61	10	Biased	1.0767	1.0758	-0.0009
62	10	Biased	1.0708	1.0753	0.0045
63	10	Biased	1.0697	1.0747	0.005
64	10	Biased	1.0732	1.0819	0.0087
65	10	Unbiased	1.0699	1.0761	0.0062
66	10	Unbiased	1.0783	1.0823	0.004
67	10	Unbiased	1.0815	1.082	0.0005
68	10	Unbiased	1.0784	1.078	-0.0004
69	10	Unbiased	1.0791	1.0714	-0.0077
100	20	Biased	1.0781	1.0762	-0.0019
200	20	Biased	1.0775	1.0768	-0.0007
300	20	Biased	1.0722	1.0724	0.0002
400	20	Biased	1.0899	1.0882	-0.0017
500	20	Biased	1.0705	1.0698	-0.0007
600	20	Unbiased	1.065	1.0647	-0.0003
700	20	Unbiased	1.0747	1.0752	0.0005
800	20	Unbiased	1.0807	1.0813	0.0006
900	20	Unbiased	1.0763	1.0766	0.0003
1000	20	Unbiased	1.0758	1.0743	-0.0015
1100	30	Biased	1.0831	1.083	-0.0001
1200	30	Biased	1.0746	1.0748	0.0002
1300	30	Biased	1.0815	1.083	0.0015
1400	30	Biased	1.0833	1.0827	-0.0006
1500	30	Biased	1.0752	1.0751	-0.0001
1600	30	Unbiased	1.0643	1.0644	0.0001
1700	30	Unbiased	1.0715	1.0715	0
1800	30	Unbiased	1.0698	1.0706	0.0008
1900	30	Unbiased	1.0812	1.0798	-0.0014
2000	30	Unbiased	1.076	1.0758	-0.0002
2100	50	Biased-84Hr-Anneal	1.0768	1.0805	0.0037
2200	50	Biased-84Hr-Anneal	1.0834	1.0818	-0.0016
2300	50	Biased-84Hr-Anneal	1.081	1.0807	-0.0003
2400	50	Biased-84Hr-Anneal	1.0759	1.073	-0.0029
2500	50	Biased-84Hr-Anneal	1.0738	1.0742	0.0004
2600	50	Unbiased	1.0741	1.0718	-0.0023
2700	50	Unbiased	1.0815	1.0796	-0.0019
2800	50	Unbiased	1.0777	1.0784	0.0007
2900	50	Unbiased	1.0729	1.0692	-0.0037
3000	50	Unbiased	1.0696	1.0681	-0.0015
4000	100	Biased-168Hr-Anneal	1.0771	1.078	0.0009
4100	100	Biased-168Hr-Anneal	1.0686	1.0654	-0.0032
4200	100	Biased-168Hr-Anneal	1.0765	1.0745	-0.002
4300	100	Biased-168Hr-Anneal	1.0826	1.0813	-0.0013
4400	100	Biased-168Hr-Anneal	1.0781	1.0751	-0.003
4500	100	Unbiased-168Hr-Anneal	1.08	1.0797	-0.0003
4600	100	Unbiased-168Hr-Anneal	1.0739	1.0732	-0.0007
4700	100	Unbiased-168Hr-Anneal	1.0764	1.0755	-0.0009
4800	100	Unbiased-168Hr-Anneal	1.0724	1.0731	0.0007
4900	100	Unbiased-168Hr-Anneal	1.0787	1.0751	-0.0036
9300	0	CORRELATION	1.0777	1.0778	0.0001
9400	0	CORRELATION	1.0696	1.0695	-0.0001
9500	0	CORRELATION	1.0769	1.0764	-0.0005
9600	0	CORRELATION	1.086	1.0856	-0.0004
9700	0	CORRELATION	1.0796	1.0795	-0.0001

Test Statistics (Decimal)

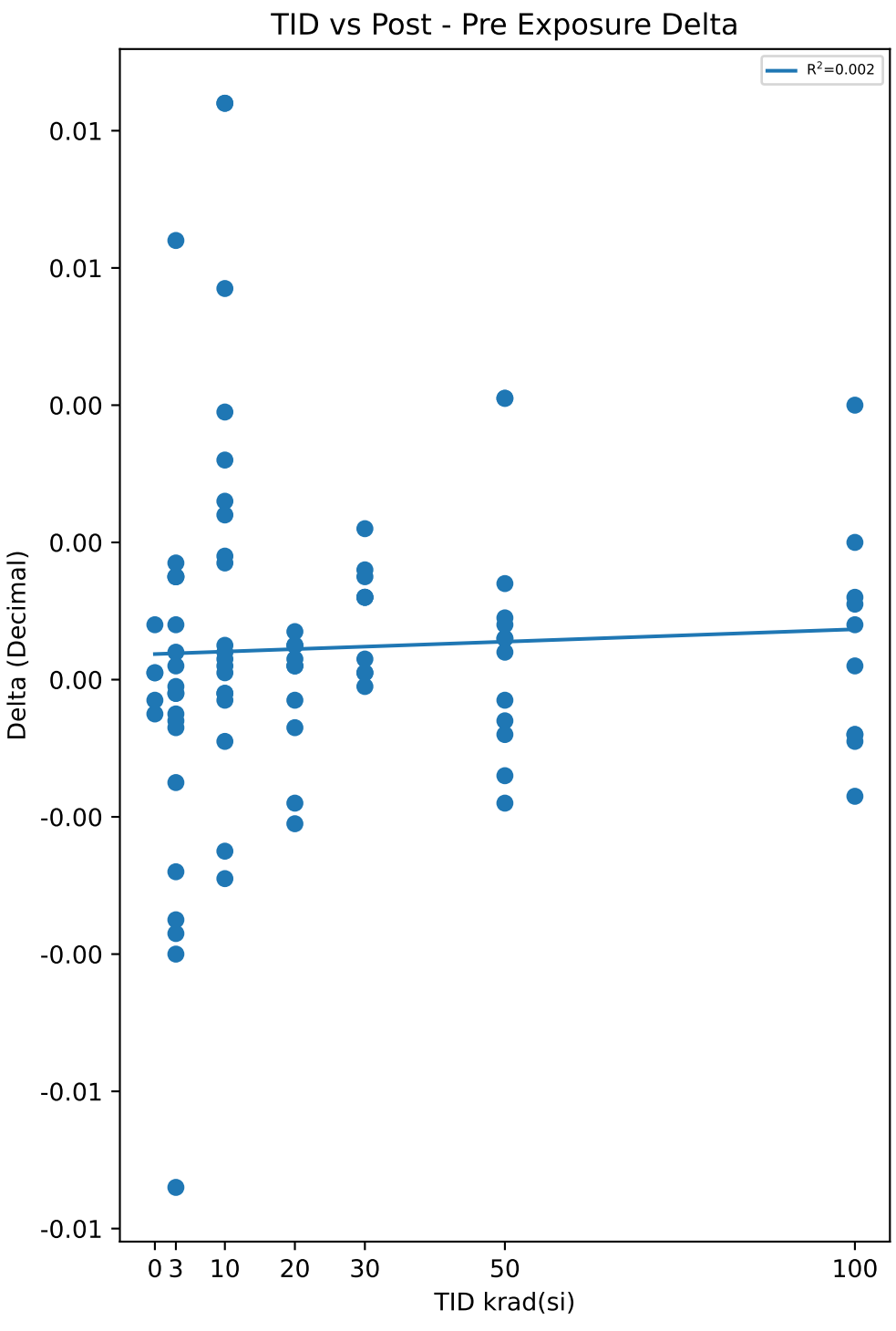
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0696	1.078	1.086	0.0058824	1.0695	1.0778	1.0856	0.0058003	-0.0005	-0.0002	0.0001	0.00024495
3	1.0716	1.0781	1.0853	0.0042614	1.0677	1.0772	1.0866	0.006047	-0.0104	-0.0009	0.0108	0.005509
10	1.0697	1.0755	1.0815	0.0042614	1.0714	1.0779	1.0823	0.0038739	-0.0077	0.00242	0.0087	0.0046645
20	1.065	1.0761	1.0899	0.0065779	1.0647	1.0756	1.0882	0.0063119	-0.0019	-0.00052	0.0006	0.00093429
30	1.0643	1.076	1.0833	0.006317	1.0644	1.0761	1.083	0.0061783	-0.0014	2e-05	0.0015	0.00076855
50	1.0696	1.0767	1.0834	0.0043215	1.0681	1.0757	1.0818	0.0050827	-0.0037	-0.00094	0.0037	0.0021449
100	1.0686	1.0764	1.0826	0.0039883	1.0654	1.0751	1.0813	0.0043491	-0.0036	-0.00134	0.0009	0.0015855

Device Test: 23.2 THRESHOLD|FALL/PWRGD/4.5////@VSENSE_VTH_FALLING_FAULT



Test Results (Lower Limit = 0.89, Upper Limit = 0.95 (Decimal))

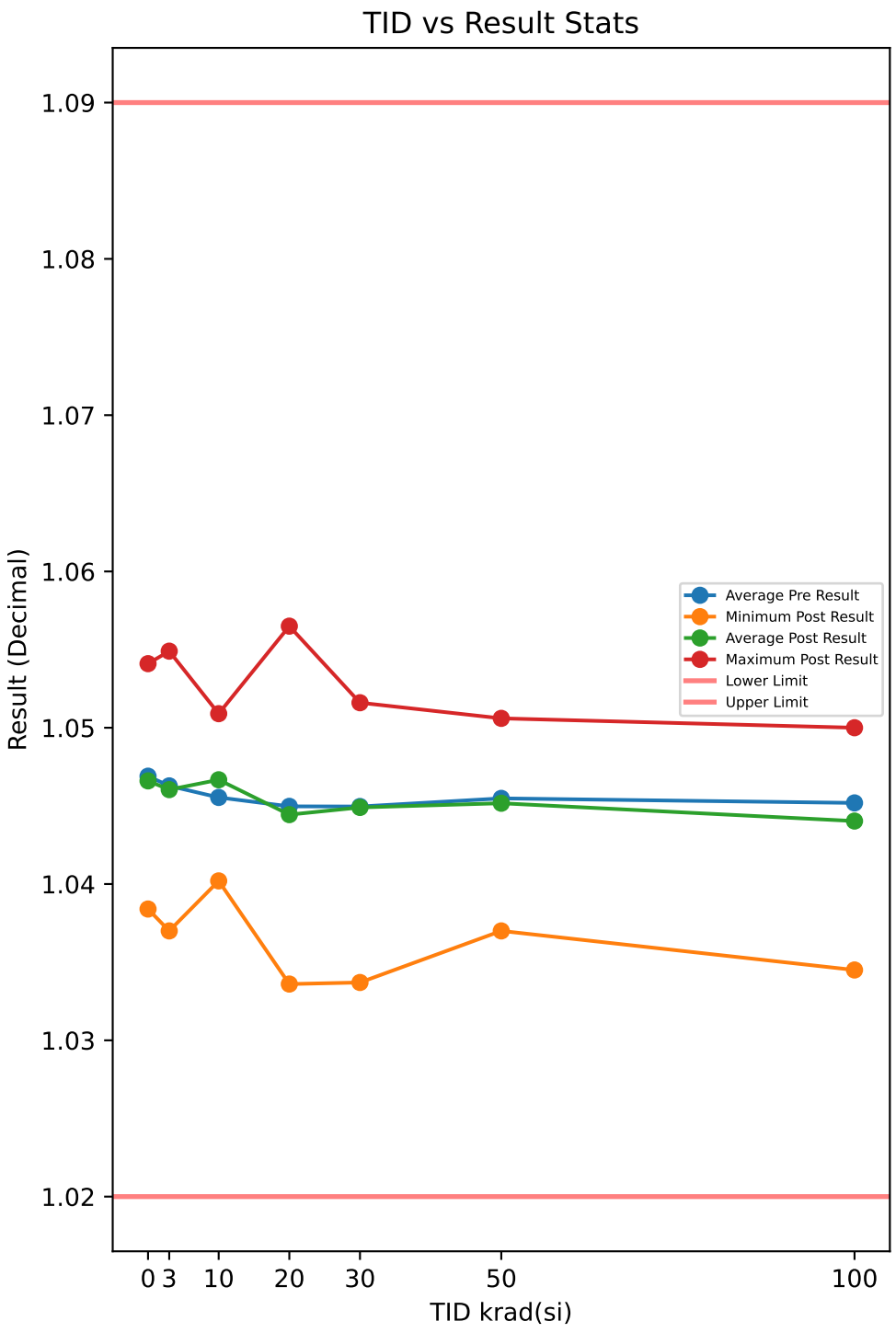
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9168	0.9153	-0.0015
51	3	Biased	0.9227	0.9225	-0.0002
52	3	Biased	0.9234	0.9242	0.0008
53	3	Biased	0.9155	0.912	-0.0035
54	3	Biased	0.9148	0.9108	-0.004
55	3	Unbiased	0.918	0.9143	-0.0037
56	3	Unbiased	0.9219	0.9191	-0.0028
57	3	Unbiased	0.9112	0.9127	0.0015
58	3	Unbiased	0.9191	0.9117	-0.0074
59	3	Unbiased	0.9141	0.9205	0.0064
60	10	Biased	0.916	0.9217	0.0057
61	10	Biased	0.9166	0.9164	-0.0002
62	10	Biased	0.9116	0.9155	0.0039
63	10	Biased	0.9094	0.9118	0.0024
64	10	Biased	0.9121	0.9205	0.0084
65	10	Unbiased	0.9084	0.9168	0.0084
66	10	Unbiased	0.9173	0.9205	0.0032
67	10	Unbiased	0.9184	0.9189	0.0005
68	10	Unbiased	0.917	0.9145	-0.0025
69	10	Unbiased	0.9159	0.913	-0.0029
100	20	Biased	0.9182	0.9161	-0.0021
200	20	Biased	0.9151	0.9156	0.0005
300	20	Biased	0.91	0.9103	0.0003
400	20	Biased	0.9238	0.922	-0.0018
500	20	Biased	0.9106	0.9103	-0.0003
600	20	Unbiased	0.9065	0.9067	0.0002
700	20	Unbiased	0.9159	0.9166	0.0007
800	20	Unbiased	0.9188	0.919	0.0002
900	20	Unbiased	0.9143	0.9148	0.0005
1000	20	Unbiased	0.9137	0.913	-0.0007
1100	30	Biased	0.9191	0.9203	0.0012
1200	30	Biased	0.9149	0.9165	0.0016
1300	30	Biased	0.9196	0.9218	0.0022
1400	30	Biased	0.9178	0.919	0.0012
1500	30	Biased	0.9133	0.9145	0.0012
1600	30	Unbiased	0.9019	0.9034	0.0015
1700	30	Unbiased	0.9104	0.9105	0.0001
1800	30	Unbiased	0.9092	0.9093	0.0001
1900	30	Unbiased	0.9167	0.917	0.0003
2000	30	Unbiased	0.9148	0.9147	-0.0001
2100	50	Biased-84Hr-Anneal	0.9145	0.9186	0.0041
2200	50	Biased-84Hr-Anneal	0.9195	0.9199	0.0004
2300	50	Biased-84Hr-Anneal	0.9192	0.9201	0.0009
2400	50	Biased-84Hr-Anneal	0.9161	0.9147	-0.0014
2500	50	Biased-84Hr-Anneal	0.9159	0.9173	0.0014
2600	50	Unbiased	0.9157	0.9139	-0.0018
2700	50	Unbiased	0.918	0.9172	-0.0008
2800	50	Unbiased	0.9167	0.9175	0.0008
2900	50	Unbiased	0.9124	0.9121	-0.0003
3000	50	Unbiased	0.9105	0.9099	-0.0006
4000	100	Biased-168Hr-Anneal	0.9157	0.9197	0.004
4100	100	Biased-168Hr-Anneal	0.9106	0.9098	-0.0008
4200	100	Biased-168Hr-Anneal	0.9137	0.9157	0.002
4300	100	Biased-168Hr-Anneal	0.921	0.9221	0.0011
4400	100	Biased-168Hr-Anneal	0.9147	0.9159	0.0012
4500	100	Unbiased-168Hr-Anneal	0.9168	0.9176	0.0008
4600	100	Unbiased-168Hr-Anneal	0.9119	0.911	-0.0009
4700	100	Unbiased-168Hr-Anneal	0.9181	0.9164	-0.0017
4800	100	Unbiased-168Hr-Anneal	0.9117	0.9119	0.0002
4900	100	Unbiased-168Hr-Anneal	0.9166	0.9158	-0.0008
9300	0	CORRELATION	0.9173	0.9181	0.0008
9400	0	CORRELATION	0.9093	0.9094	0.0001
9500	0	CORRELATION	0.9174	0.9169	-0.0005
9600	0	CORRELATION	0.9231	0.9228	-0.0003
9700	0	CORRELATION	0.9178	0.9179	0.0001

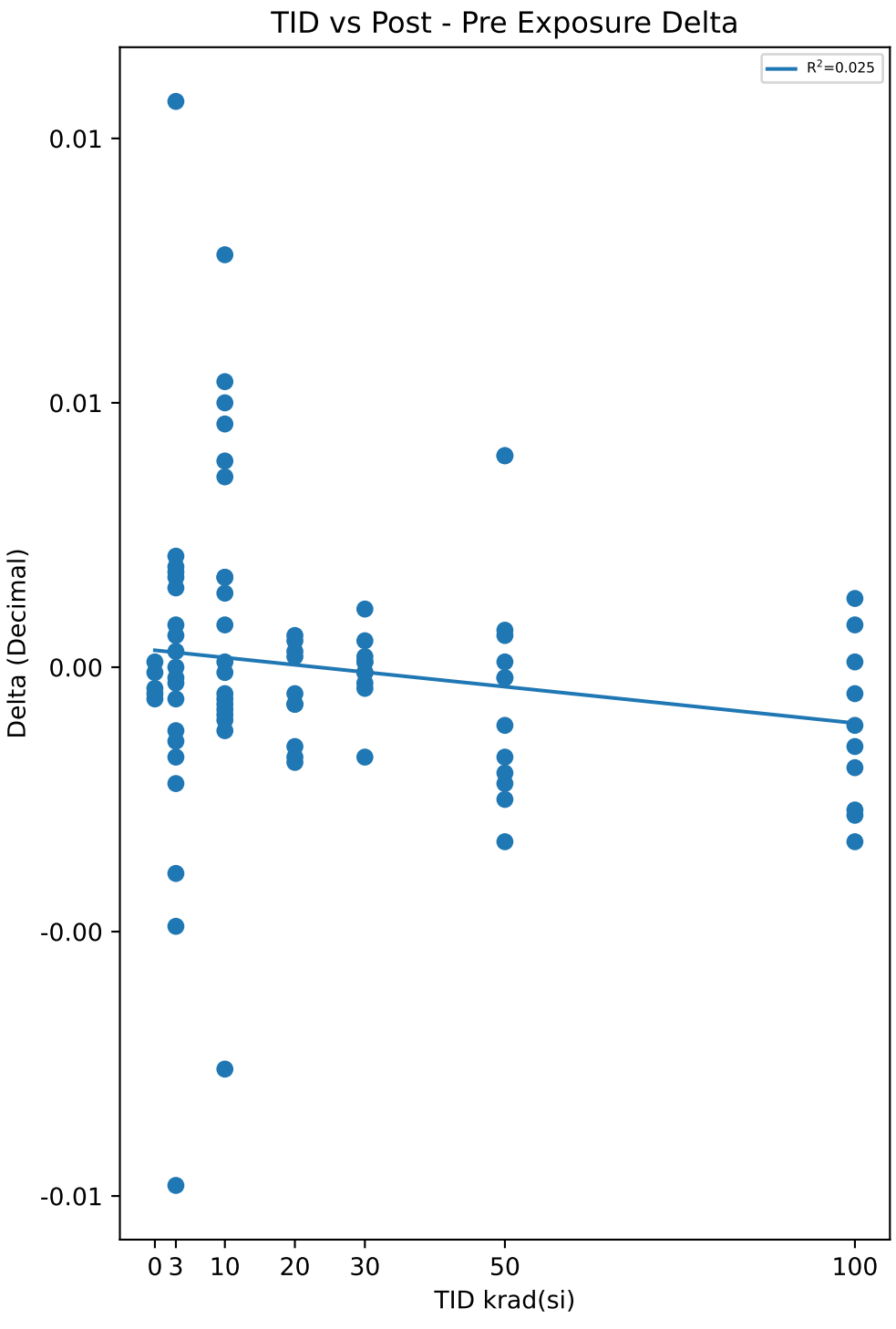


Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9093	0.91698	0.9231	0.0049343	0.9094	0.91702	0.9228	0.0048329	-0.0005	4e-05	0.0008	0.000498
3	0.9112	0.91775	0.9234	0.0040335	0.9108	0.91631	0.9242	0.0048784	-0.0074	-0.00144	0.0064	0.0037998
10	0.9084	0.91427	0.9184	0.0035712	0.9118	0.91696	0.9217	0.0033685	-0.0029	0.00269	0.0084	0.0040471
20	0.9065	0.91469	0.9238	0.0049528	0.9067	0.91444	0.922	0.0045105	-0.0021	-0.00025	0.0007	0.00098686
30	0.9019	0.91377	0.9196	0.0054049	0.9034	0.9147	0.9218	0.0056107	-0.0001	0.00093	0.0022	0.00077753
50	0.9105	0.91585	0.9195	0.0028348	0.9099	0.91612	0.9201	0.0033753	-0.0018	0.00027	0.0041	0.0016977
100	0.9106	0.91508	0.921	0.0032228	0.9098	0.91559	0.9221	0.0038345	-0.0017	0.00051	0.004	0.0016901

Device Test: 23.20 THRESHOLD|FALL/PWRGD/12////@VSENSE_VTH_FALLING_GOOD





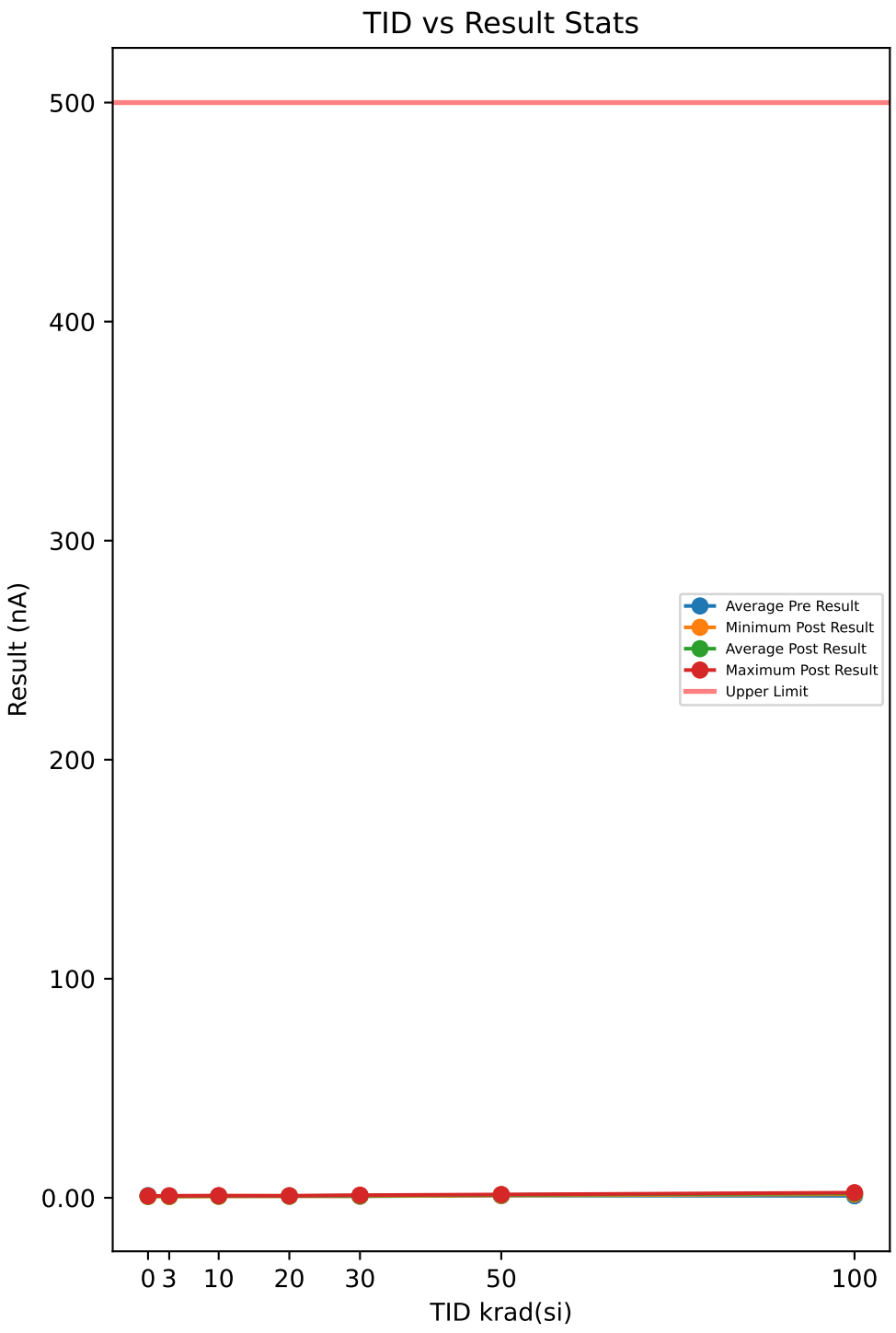
Test Results (Lower Limit = 1.02, Upper Limit = 1.09 (Decimal))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0465	1.0443	-0.0022
51	3	Biased	1.0505	1.0523	0.0018
52	3	Biased	1.0541	1.0549	0.0008
53	3	Biased	1.0436	1.0422	-0.0014
54	3	Biased	1.0468	1.037	-0.0098
55	3	Unbiased	1.0485	1.0436	-0.0049
56	3	Unbiased	1.0506	1.0489	-0.0017
57	3	Unbiased	1.0405	1.0422	0.0017
58	3	Unbiased	1.0463	1.0424	-0.0039
59	3	Unbiased	1.0419	1.0526	0.0107
60	10	Biased	1.0468	1.0504	0.0036
61	10	Biased	1.0458	1.0446	-0.0012
62	10	Biased	1.0396	1.0446	0.005
63	10	Biased	1.0391	1.0437	0.0046
64	10	Biased	1.0427	1.0505	0.0078
65	10	Unbiased	1.0392	1.0446	0.0054
66	10	Unbiased	1.047	1.0509	0.0039
67	10	Unbiased	1.0504	1.0505	0.0001
68	10	Unbiased	1.0473	1.0467	-0.0006
69	10	Unbiased	1.0478	1.0402	-0.0076
100	20	Biased	1.0468	1.0451	-0.0017
200	20	Biased	1.0463	1.0456	-0.0007
300	20	Biased	1.0411	1.0413	0.0002
400	20	Biased	1.058	1.0565	-0.0015
500	20	Biased	1.0396	1.0389	-0.0007
600	20	Unbiased	1.0341	1.0336	-0.0005
700	20	Unbiased	1.0439	1.0445	0.0006
800	20	Unbiased	1.0498	1.0503	0.0005
900	20	Unbiased	1.0454	1.0457	0.0003
1000	20	Unbiased	1.0447	1.0429	-0.0018
1100	30	Biased	1.0518	1.0515	-0.0003
1200	30	Biased	1.0431	1.0433	0.0002
1300	30	Biased	1.0502	1.0513	0.0011
1400	30	Biased	1.052	1.0516	-0.0004
1500	30	Biased	1.0441	1.044	-0.0001
1600	30	Unbiased	1.0336	1.0337	0.0001
1700	30	Unbiased	1.0407	1.0408	0.0001
1800	30	Unbiased	1.039	1.0395	0.0005
1900	30	Unbiased	1.0502	1.0485	-0.0017
2000	30	Unbiased	1.0449	1.0448	-0.0001
2100	50	Biased-84Hr-Anneal	1.0454	1.0494	0.004
2200	50	Biased-84Hr-Anneal	1.0517	1.0506	-0.0011
2300	50	Biased-84Hr-Anneal	1.0497	1.0498	0.0001
2400	50	Biased-84Hr-Anneal	1.0448	1.0423	-0.0025
2500	50	Biased-84Hr-Anneal	1.0425	1.0431	0.0006
2600	50	Unbiased	1.0432	1.041	-0.0022
2700	50	Unbiased	1.0504	1.0484	-0.002
2800	50	Unbiased	1.0466	1.0473	0.0007
2900	50	Unbiased	1.0418	1.0385	-0.0033
3000	50	Unbiased	1.0387	1.037	-0.0017
4000	100	Biased-168Hr-Anneal	1.0458	1.0466	0.0008
4100	100	Biased-168Hr-Anneal	1.0373	1.0345	-0.0028
4200	100	Biased-168Hr-Anneal	1.0454	1.0435	-0.0019
4300	100	Biased-168Hr-Anneal	1.0515	1.05	-0.0015
4400	100	Biased-168Hr-Anneal	1.0468	1.0441	-0.0027
4500	100	Unbiased-168Hr-Anneal	1.0485	1.0486	0.0001
4600	100	Unbiased-168Hr-Anneal	1.0428	1.0423	-0.0005
4700	100	Unbiased-168Hr-Anneal	1.0451	1.044	-0.0011
4800	100	Unbiased-168Hr-Anneal	1.0413	1.0426	0.0013
4900	100	Unbiased-168Hr-Anneal	1.0474	1.0441	-0.0033
9300	0	CORRELATION	1.0471	1.0465	-0.0006
9400	0	CORRELATION	1.0385	1.0384	-0.0001
9500	0	CORRELATION	1.0458	1.0454	-0.0004
9600	0	CORRELATION	1.0546	1.0541	-0.0005
9700	0	CORRELATION	1.0485	1.0486	0.0001

Test Statistics (Decimal)

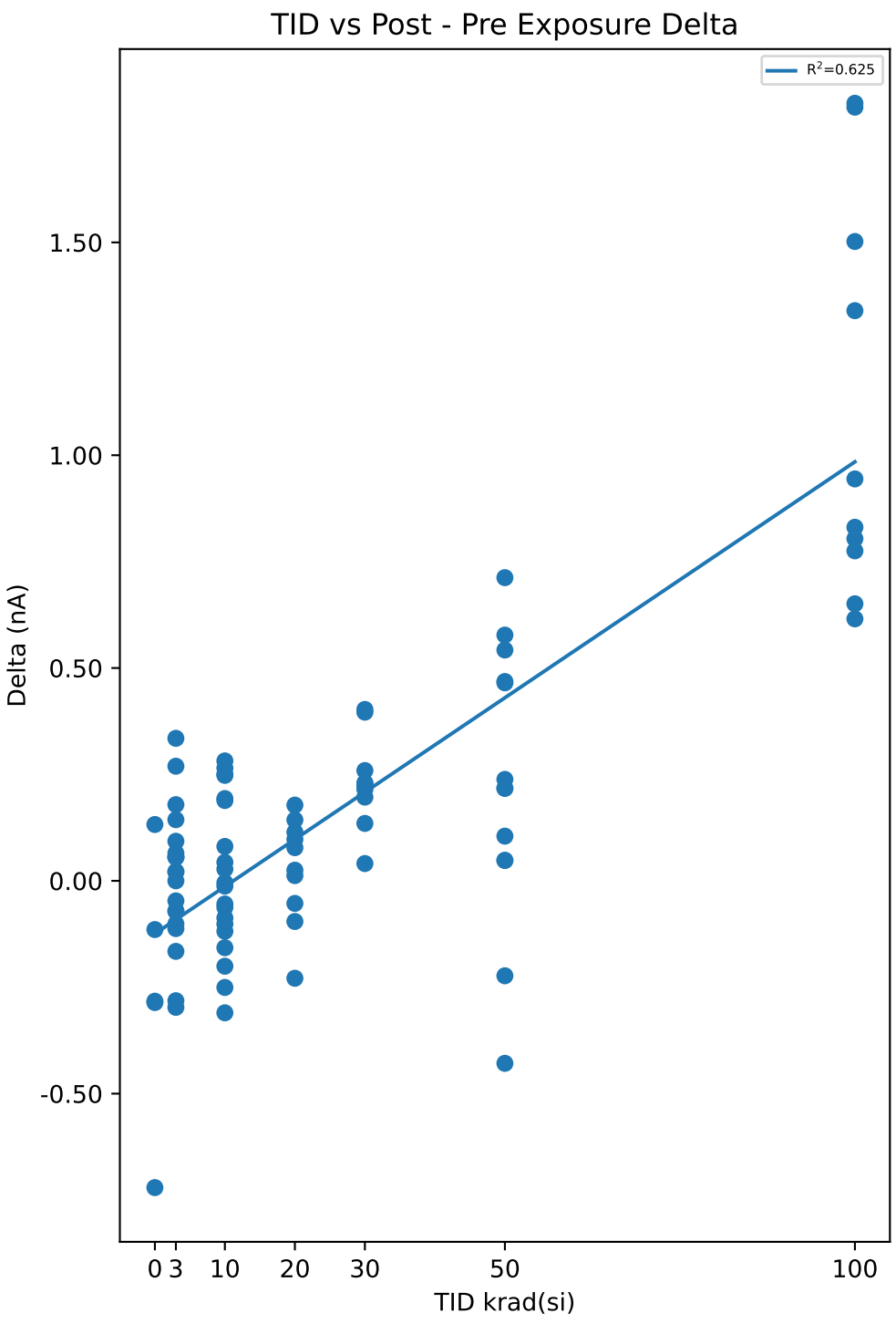
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0385	1.0469	1.0546	0.0057806	1.0384	1.0466	1.0541	0.0056776	-0.0006	-0.0003	0.0001	0.00029155
3	1.0405	1.0469	1.0541	0.0041955	1.037	1.046	1.0549	0.005796	-0.0098	-0.00089	0.0107	0.0053571
10	1.0391	1.0446	1.0504	0.0040991	1.0402	1.0467	1.0509	0.003722	-0.0076	0.0021	0.0078	0.0044697
20	1.0341	1.045	1.058	0.0063386	1.0336	1.0444	1.0565	0.0061787	-0.0018	-0.00053	0.0006	0.00091536
30	1.0336	1.045	1.052	0.0061299	1.0337	1.0449	1.0516	0.0059363	-0.0017	-6e-05	0.0011	0.00071833
50	1.0387	1.0455	1.0517	0.0041635	1.037	1.0447	1.0506	0.0049787	-0.0033	-0.00074	0.004	0.0021464
100	1.0373	1.0452	1.0515	0.0039689	1.0345	1.044	1.05	0.0042069	-0.0033	-0.00116	0.0013	0.0015714

Device Test: 23.21 LEAK|MAX/PWRGD/12////@PWRGD_OUTPUT_HIGH_LEAK



Test Results (Upper Limit = 500.0 (nA))

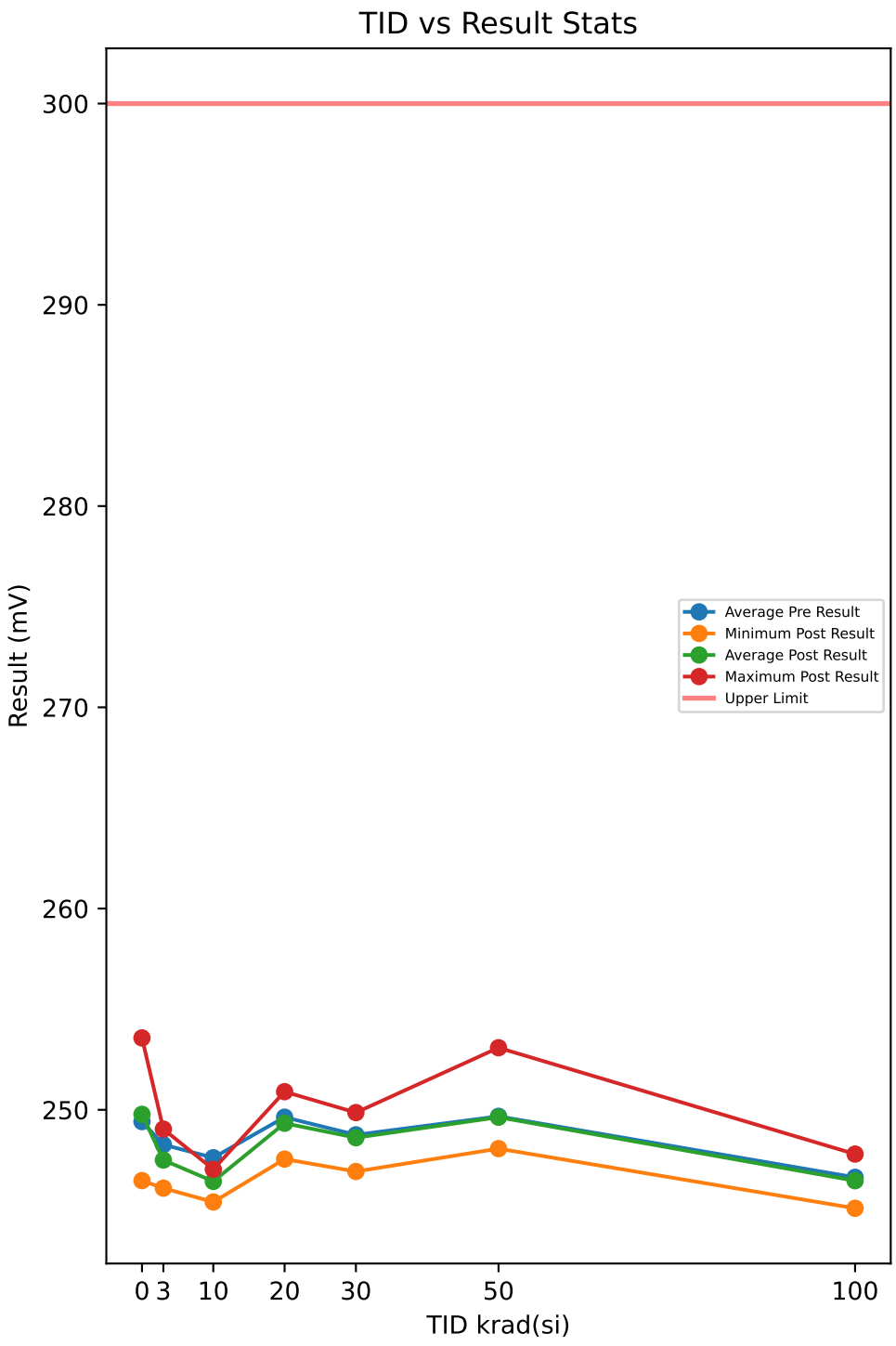
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.8566	0.9215	0.0649
51	3	Biased	0.6285	0.6491	0.0206
52	3	Biased	0.6784	0.6313	-0.0471
53	3	Biased	0.7265	0.6563	-0.0702
54	3	Biased	0.8378	0.8933	0.0555
55	3	Unbiased	0.9313	0.7656	-0.1657
56	3	Unbiased	0.6659	0.5647	-0.1012
57	3	Unbiased	0.6488	0.5366	-0.1122
58	3	Unbiased	0.8128	0.9058	0.093
59	3	Unbiased	0.7721	0.8277	0.0556
60	10	Biased	0.6909	0.6865	-0.0044
61	10	Biased	0.6239	0.8717	0.2478
62	10	Biased	0.7316	0.9965	0.2649
63	10	Biased	0.8064	0.8499	0.0435
64	10	Biased	0.6878	0.6334	-0.0544
65	10	Unbiased	0.7328	0.9215	0.1887
66	10	Unbiased	0.7348	0.6334	-0.1014
67	10	Unbiased	0.8439	0.8714	0.0275
68	10	Unbiased	0.6597	0.853	0.1933
69	10	Unbiased	0.8727	0.7156	-0.1571
100	20	Biased	1.0114	0.7825	-0.2289
200	20	Biased	0.7972	0.7017	-0.0955
300	20	Biased	0.7783	0.8033	0.025
400	20	Biased	0.5723	0.7502	0.1779
500	20	Biased	0.6425	0.7856	0.1431
600	20	Unbiased	0.8628	0.9407	0.0779
700	20	Unbiased	0.8751	0.822	-0.0531
800	20	Unbiased	0.8095	0.907	0.0975
900	20	Unbiased	0.767	0.8813	0.1143
1000	20	Unbiased	0.7879	0.8002	0.0123
1100	30	Biased	0.7596	0.8945	0.1349
1200	30	Biased	0.6316	1.0343	0.4027
1300	30	Biased	0.8168	1.0374	0.2206
1400	30	Biased	0.8285	1.0438	0.2153
1500	30	Biased	0.7346	0.7752	0.0406
1600	30	Unbiased	0.7596	0.9563	0.1967
1700	30	Unbiased	0.5243	0.7545	0.2302
1800	30	Unbiased	0.8035	1.1998	0.3963
1900	30	Unbiased	0.7502	1.0093	0.2591
2000	30	Unbiased	0.6784	0.907	0.2286
2100	50	Biased-84Hr-Anneal	1.2852	1.5026	0.2174
2200	50	Biased-84Hr-Anneal	1.3195	1.4245	0.105
2300	50	Biased-84Hr-Anneal	1.4662	1.0374	-0.4288
2400	50	Biased-84Hr-Anneal	1.4225	1.1994	-0.2231
2500	50	Biased-84Hr-Anneal	0.8959	1.1342	0.2383
2600	50	Unbiased	0.7722	1.3145	0.5423
2700	50	Unbiased	0.8657	1.3309	0.4652
2800	50	Unbiased	0.7377	1.206	0.4683
2900	50	Unbiased	0.5897	1.302	0.7123
3000	50	Unbiased	0.7067	1.2841	0.5774
4000	100	Biased-168Hr-Anneal	0.3406	2.1675	1.8269
4100	100	Biased-168Hr-Anneal	0.8092	1.6131	0.8039
4200	100	Biased-168Hr-Anneal	1.6571	2.2726	0.6155
4300	100	Biased-168Hr-Anneal	0.8186	2.1582	1.3396
4400	100	Biased-168Hr-Anneal	0.5184	2.3361	1.8177
4500	100	Unbiased-168Hr-Anneal	1.2076	1.8585	0.6509
4600	100	Unbiased-168Hr-Anneal	0.8748	1.7055	0.8307
4700	100	Unbiased-168Hr-Anneal	1.2076	2.1519	0.9443
4800	100	Unbiased-168Hr-Anneal	0.5559	2.058	1.5021
4900	100	Unbiased-168Hr-Anneal	0.9872	1.7625	0.7753
9300	0	CORRELATION	0.5617	0.694	0.1323
9400	0	CORRELATION	0.8676	0.5848	-0.2828
9500	0	CORRELATION	1.4069	0.6861	-0.7208
9600	0	CORRELATION	0.7898	0.6753	-0.1145
9700	0	CORRELATION	1.1205	0.8345	-0.286



Test Statistics (nA)

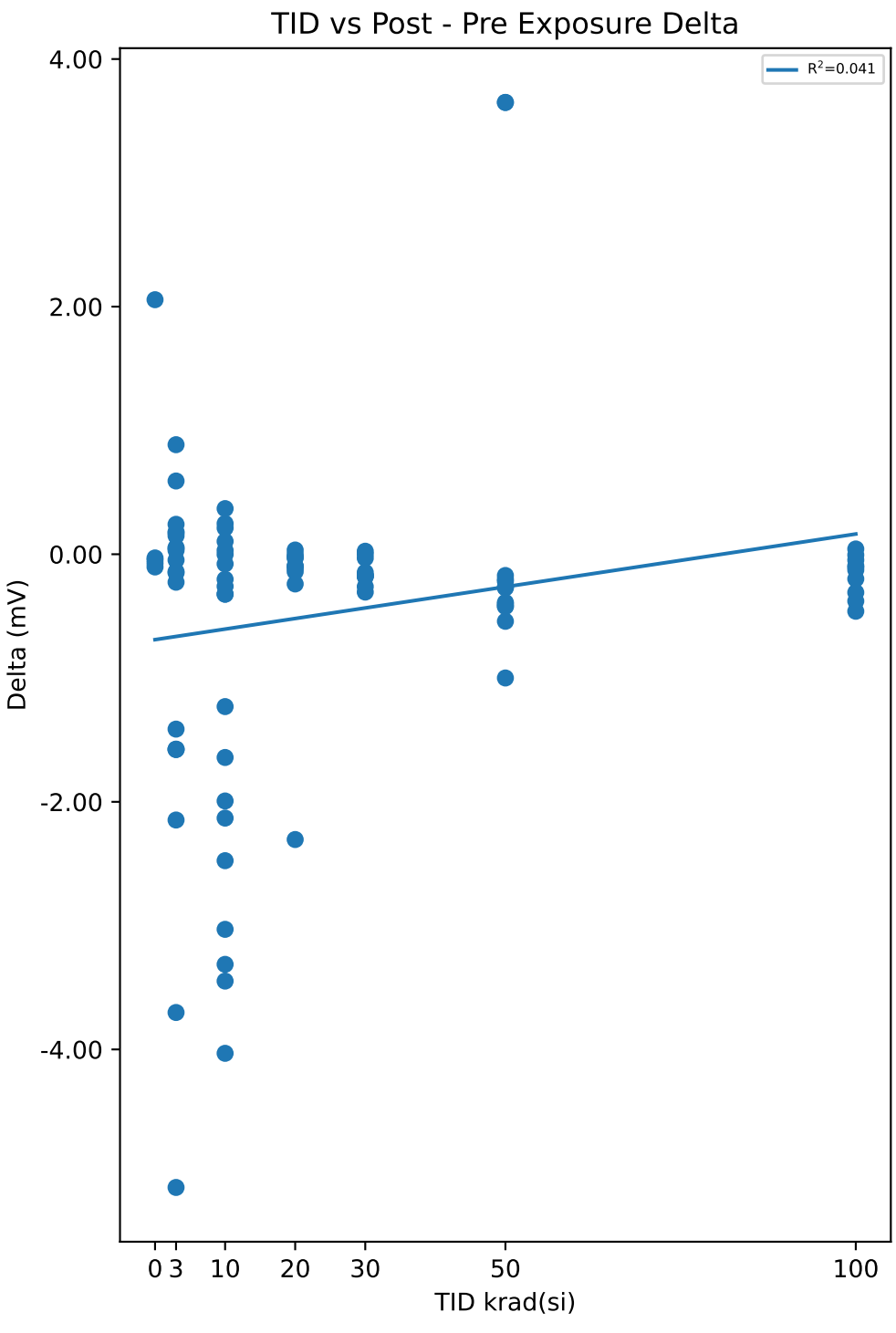
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5617	0.9493	1.4069	0.32444	0.5848	0.69494	0.8345	0.089544	-0.7208	-0.25436	0.1323	0.31163
3	0.6285	0.75587	0.9313	0.10208	0.5366	0.73519	0.9215	0.14577	-0.1657	-0.02068	0.093	0.089823
10	0.6239	0.73845	0.8727	0.080279	0.6334	0.80329	0.9965	0.12663	-0.1571	0.06484	0.2649	0.15022
20	0.5723	0.7904	1.0114	0.12102	0.7017	0.81745	0.9407	0.073	-0.2289	0.02705	0.1779	0.12408
30	0.5243	0.72871	0.8285	0.093963	0.7545	0.96121	1.1998	0.13414	0.0406	0.2325	0.4027	0.1078
50	0.5897	1.0061	1.4662	0.33046	1.0374	1.2736	1.5026	0.13597	-0.4288	0.26743	0.7123	0.36577
100	0.3406	0.8977	1.6571	0.38908	1.6131	2.0084	2.3361	0.25363	0.6155	1.1107	1.8269	0.46996

Device Test: 23.22 VOL|2mA/PWRGD/12////@PWRGD_OUTPUT_LOW



Test Results (Upper Limit = 300.0 (mV))

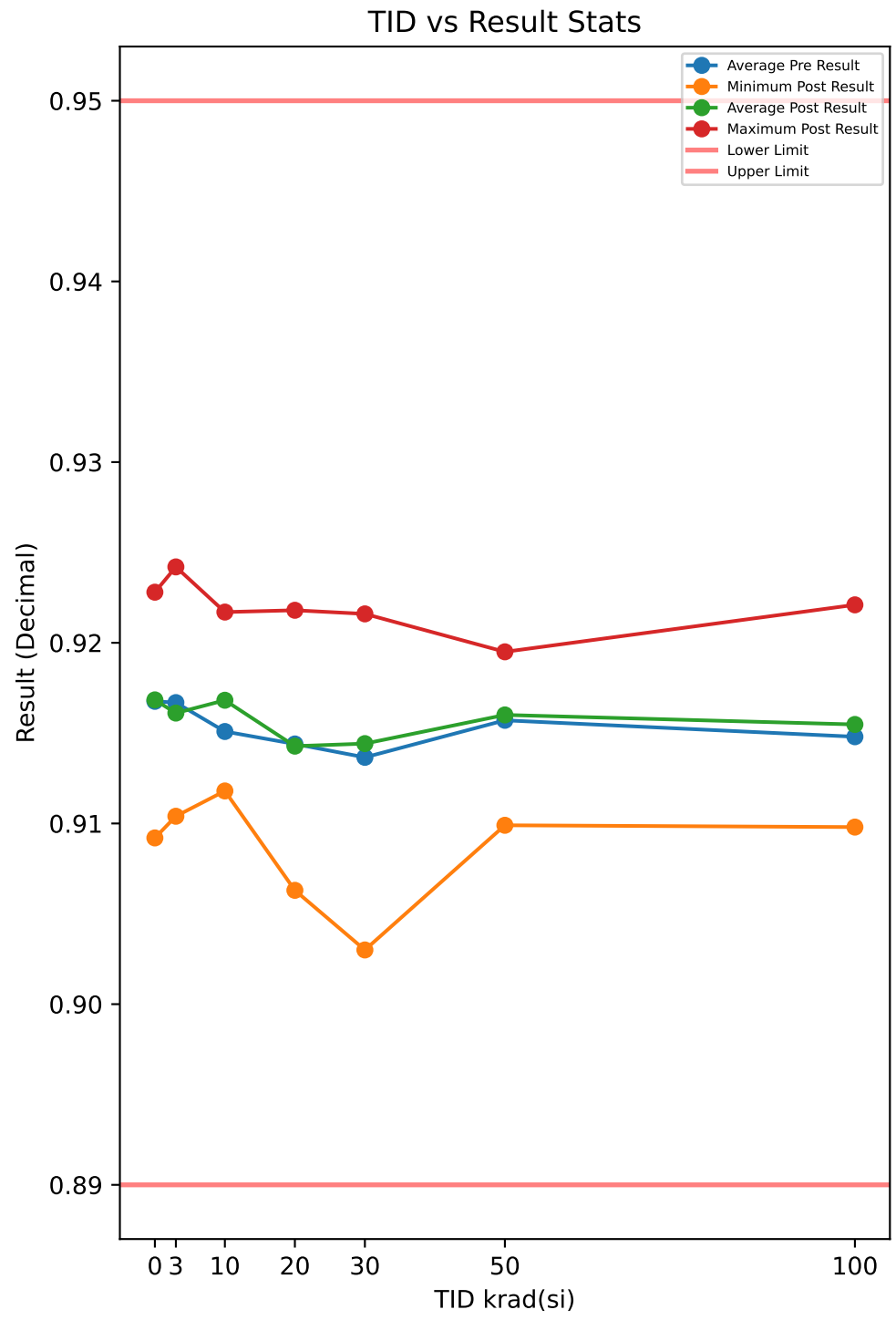
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	249.09	247.67	-1.4126
51	3	Biased	252.55	247.43	-5.115
52	3	Biased	249.81	246.11	-3.7017
53	3	Biased	248.95	247.37	-1.5745
54	3	Biased	247.85	248.74	0.8848
55	3	Unbiased	248.39	246.25	-2.1469
56	3	Unbiased	248.45	249.04	0.5916
57	3	Unbiased	248.91	247.34	-1.5757
58	3	Unbiased	246.84	247.08	0.2417
59	3	Unbiased	249.58	248	-1.5777
60	10	Biased	250.28	246.96	-3.3129
61	10	Biased	247.88	246.65	-1.2307
62	10	Biased	248.04	246.05	-1.9931
63	10	Biased	249.17	247.04	-2.1314
64	10	Biased	250.09	246.06	-4.0314
65	10	Unbiased	249.09	246.61	-2.4754
66	10	Unbiased	247.24	247.04	-0.2024
67	10	Unbiased	248.68	247.03	-1.6418
68	10	Unbiased	248.45	245.42	-3.0299
69	10	Unbiased	249.01	245.56	-3.448
100	20	Biased	250.56	248.26	-2.3045
200	20	Biased	249.84	249.84	-0.0006
300	20	Biased	250.78	250.64	-0.1406
400	20	Biased	251	250.9	-0.0937
500	20	Biased	249.65	249.62	-0.0313
600	20	Unbiased	247.79	247.55	-0.2401
700	20	Unbiased	249.52	249.5	-0.0222
800	20	Unbiased	249.82	249.73	-0.0972
900	20	Unbiased	247.98	247.86	-0.1143
1000	20	Unbiased	249.4	249.43	0.0341
1100	30	Biased	249.94	249.76	-0.1819
1200	30	Biased	249.84	249.53	-0.3057
1300	30	Biased	247.2	246.93	-0.2617
1400	30	Biased	249.56	249.38	-0.1724
1500	30	Biased	248.35	248.32	-0.0312
1600	30	Unbiased	248.75	248.75	0
1700	30	Unbiased	248.6	248.43	-0.1718
1800	30	Unbiased	250.01	249.86	-0.1466
1900	30	Unbiased	248.19	248.22	0.0244
2000	30	Unbiased	247.14	246.96	-0.1756
2100	50	Biased-84Hr-Anneal	248.49	252.14	3.6496
2200	50	Biased-84Hr-Anneal	249.41	248.87	-0.5418
2300	50	Biased-84Hr-Anneal	250.07	249.67	-0.401
2400	50	Biased-84Hr-Anneal	248.68	248.29	-0.3895
2500	50	Biased-84Hr-Anneal	250.59	250.39	-0.2016
2600	50	Unbiased	248.87	248.6	-0.2663
2700	50	Unbiased	248.89	248.68	-0.2186
2800	50	Unbiased	249.2	249.03	-0.1717
2900	50	Unbiased	254.08	253.08	-0.9996
3000	50	Unbiased	248.46	248.19	-0.2714
4000	100	Biased-168Hr-Anneal	247.39	247.26	-0.1274
4100	100	Biased-168Hr-Anneal	245.48	245.38	-0.0937
4200	100	Biased-168Hr-Anneal	245.92	245.46	-0.4606
4300	100	Biased-168Hr-Anneal	245.31	245.11	-0.1991
4400	100	Biased-168Hr-Anneal	246.73	246.63	-0.1048
4500	100	Unbiased-168Hr-Anneal	247.41	247.03	-0.3784
4600	100	Unbiased-168Hr-Anneal	245.21	245.26	0.0425
4700	100	Unbiased-168Hr-Anneal	248.11	247.8	-0.309
4800	100	Unbiased-168Hr-Anneal	247.27	247.26	-0.0063
4900	100	Unbiased-168Hr-Anneal	247.62	247.57	-0.0466
9300	0	CORRELATION	248.43	250.49	2.0561
9400	0	CORRELATION	253.68	253.57	-0.1029
9500	0	CORRELATION	248.59	248.54	-0.046
9600	0	CORRELATION	249.83	249.8	-0.0299
9700	0	CORRELATION	246.55	246.48	-0.0728

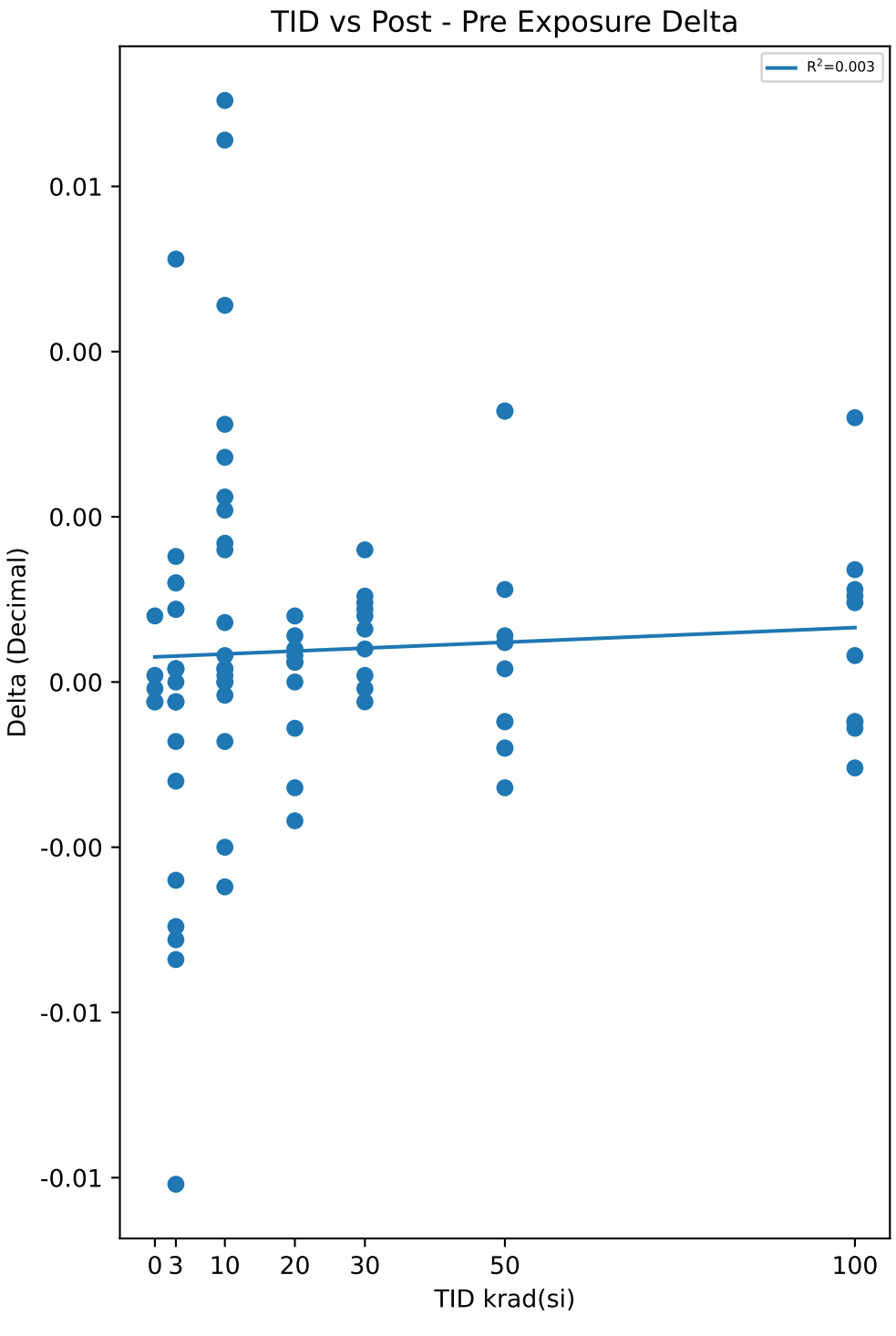


Test Statistics (mV)

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	246.55	249.42	253.68	2.6532	246.48	249.78	253.57	2.6122	-0.1029	0.3609	2.0561	0.94805
3	246.84	249.04	252.55	1.4994	246.11	247.5	249.04	0.93847	-5.115	-1.5386	0.8848	1.869
10	247.24	248.79	250.28	0.94769	245.42	246.44	247.04	0.62735	-4.0314	-2.3497	-0.2024	1.1537
20	247.79	249.63	251	1.071	247.55	249.33	250.9	1.1151	-2.3045	-0.30104	0.0341	0.70835
30	247.14	248.76	250.01	1.0721	246.93	248.61	249.86	1.062	-0.3057	-0.14225	0.0244	0.10843
50	248.46	249.68	254.08	1.695	248.19	249.69	253.08	1.6852	-0.9996	0.01881	3.6496	1.2989
100	245.21	246.64	248.11	1.0721	245.11	246.48	247.8	1.0591	-0.4606	-0.16834	0.0425	0.16569

Device Test: 23.24 THRESHOLD|FALL/PWRGD/14////@VSENSE_VTH_FALLING_FAULT





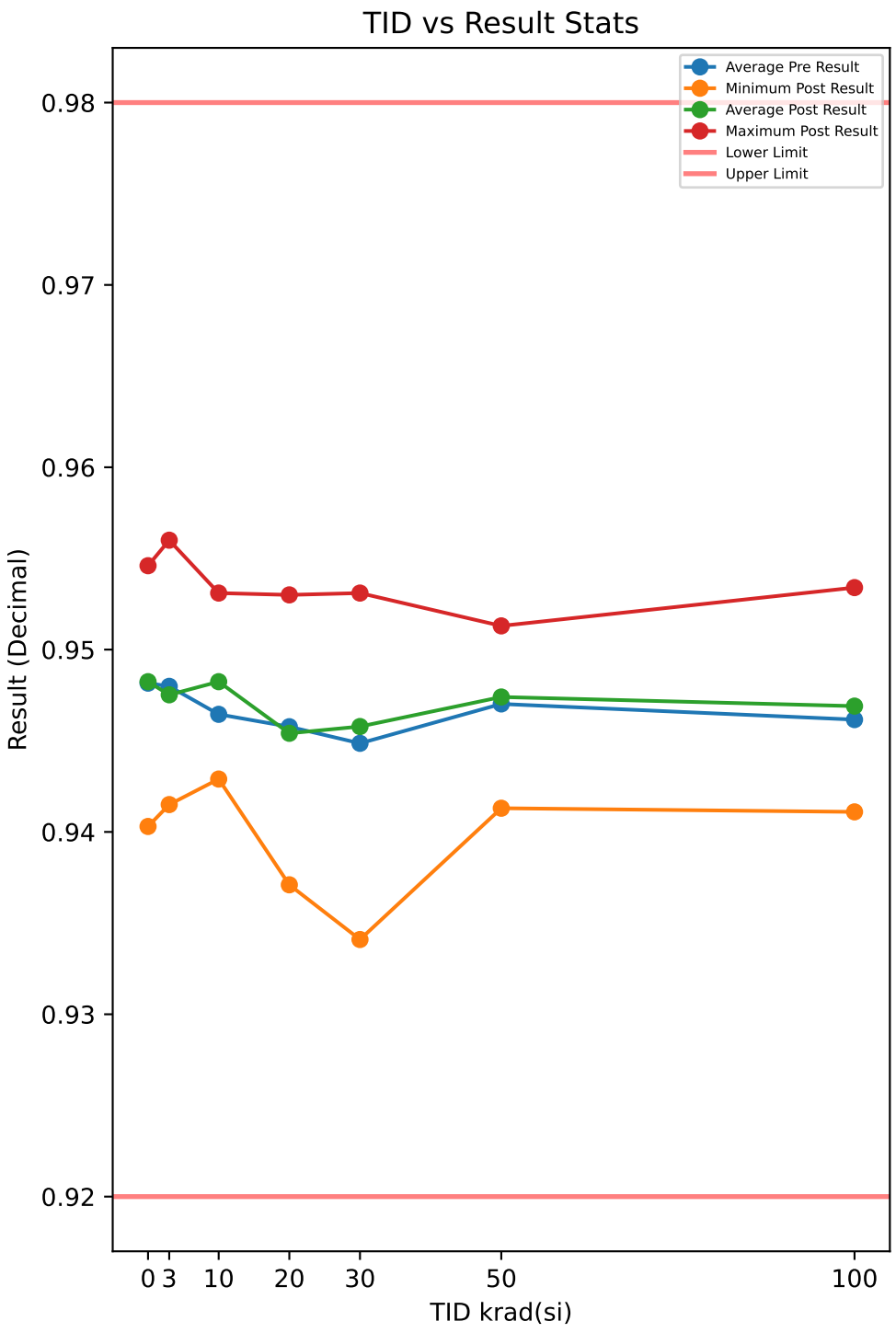
Test Results (Lower Limit = 0.89, Upper Limit = 0.95 (Decimal))

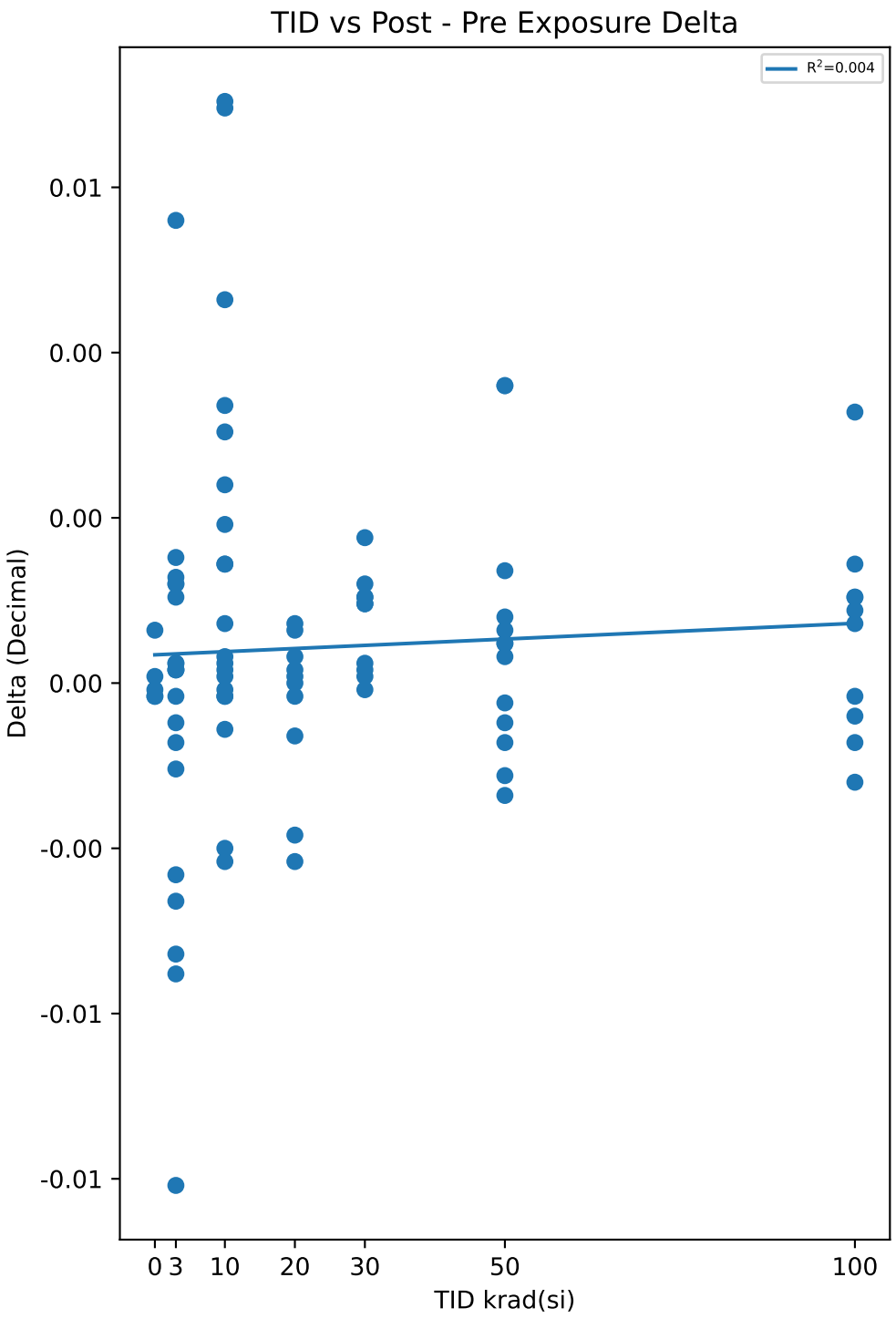
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9166	0.9151	-0.0015
51	3	Biased	0.9225	0.9225	0
52	3	Biased	0.9231	0.9242	0.0011
53	3	Biased	0.9155	0.9116	-0.0039
54	3	Biased	0.9146	0.9104	-0.0042
55	3	Unbiased	0.9178	0.9141	-0.0037
56	3	Unbiased	0.9217	0.9187	-0.003
57	3	Unbiased	0.911	0.9125	0.0015
58	3	Unbiased	0.9191	0.9115	-0.0076
59	3	Unbiased	0.9141	0.9205	0.0064
60	10	Biased	0.916	0.9217	0.0057
61	10	Biased	0.9162	0.9162	0
62	10	Biased	0.9114	0.9153	0.0039
63	10	Biased	0.9092	0.9118	0.0026
64	10	Biased	0.9117	0.9205	0.0088
65	10	Unbiased	0.9084	0.9166	0.0082
66	10	Unbiased	0.9171	0.9205	0.0034
67	10	Unbiased	0.918	0.9189	0.0009
68	10	Unbiased	0.9166	0.9141	-0.0025
69	10	Unbiased	0.9157	0.9126	-0.0031
100	20	Biased	0.9178	0.9157	-0.0021
200	20	Biased	0.9149	0.9156	0.0007
300	20	Biased	0.91	0.9103	0.0003
400	20	Biased	0.9234	0.9218	-0.0016
500	20	Biased	0.91	0.9103	0.0003
600	20	Unbiased	0.9063	0.9063	0
700	20	Unbiased	0.9154	0.9164	0.001
800	20	Unbiased	0.9186	0.919	0.0004
900	20	Unbiased	0.9139	0.9144	0.0005
1000	20	Unbiased	0.9137	0.913	-0.0007
1100	30	Biased	0.9189	0.9201	0.0012
1200	30	Biased	0.9146	0.9159	0.0013
1300	30	Biased	0.9196	0.9216	0.002
1400	30	Biased	0.9178	0.9186	0.0008
1500	30	Biased	0.9133	0.9143	0.001
1600	30	Unbiased	0.9019	0.903	0.0011
1700	30	Unbiased	0.9104	0.9101	-0.0003
1800	30	Unbiased	0.9092	0.9093	0.0001
1900	30	Unbiased	0.9163	0.9168	0.0005
2000	30	Unbiased	0.9146	0.9145	-0.0001
2100	50	Biased-84Hr-Anneal	0.9145	0.9186	0.0041
2200	50	Biased-84Hr-Anneal	0.9193	0.9195	0.0002
2300	50	Biased-84Hr-Anneal	0.9188	0.9195	0.0007
2400	50	Biased-84Hr-Anneal	0.9157	0.9147	-0.001
2500	50	Biased-84Hr-Anneal	0.9159	0.9173	0.0014
2600	50	Unbiased	0.9155	0.9139	-0.0016
2700	50	Unbiased	0.918	0.917	-0.001
2800	50	Unbiased	0.9167	0.9173	0.0006
2900	50	Unbiased	0.9122	0.9116	-0.0006
3000	50	Unbiased	0.9105	0.9099	-0.0006
4000	100	Biased-168Hr-Anneal	0.9153	0.9193	0.004
4100	100	Biased-168Hr-Anneal	0.9104	0.9098	-0.0006
4200	100	Biased-168Hr-Anneal	0.9135	0.9152	0.0017
4300	100	Biased-168Hr-Anneal	0.9208	0.9221	0.0013
4400	100	Biased-168Hr-Anneal	0.9145	0.9159	0.0014
4500	100	Unbiased-168Hr-Anneal	0.9164	0.9176	0.0012
4600	100	Unbiased-168Hr-Anneal	0.9117	0.911	-0.0007
4700	100	Unbiased-168Hr-Anneal	0.9175	0.9162	-0.0013
4800	100	Unbiased-168Hr-Anneal	0.9115	0.9119	0.0004
4900	100	Unbiased-168Hr-Anneal	0.9164	0.9158	-0.0006
9300	0	CORRELATION	0.9169	0.9179	0.001
9400	0	CORRELATION	0.9093	0.9092	-0.0001
9500	0	CORRELATION	0.9172	0.9169	-0.0003
9600	0	CORRELATION	0.9231	0.9228	-0.0003
9700	0	CORRELATION	0.9173	0.9174	0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9093	0.91676	0.9231	0.004908	0.9092	0.91684	0.9228	0.0048819	-0.0003	8e-05	0.001	0.00054037
3	0.911	0.9176	0.9231	0.0039942	0.9104	0.91611	0.9242	0.004995	-0.0076	-0.00149	0.0064	0.0039125
10	0.9084	0.91403	0.918	0.0035046	0.9118	0.91682	0.9217	0.0034701	-0.0031	0.00279	0.0088	0.0040761
20	0.9063	0.9144	0.9234	0.0049049	0.9063	0.91428	0.9218	0.0045227	-0.0021	-0.00012	0.001	0.0010218
30	0.9019	0.91366	0.9196	0.0053496	0.903	0.91442	0.9216	0.0056219	-0.0003	0.00076	0.002	0.00071212
50	0.9105	0.91571	0.9193	0.0027823	0.9099	0.91593	0.9195	0.0033042	-0.0016	0.00022	0.0041	0.0016484
100	0.9104	0.9148	0.9208	0.0031675	0.9098	0.91548	0.9221	0.003785	-0.0013	0.00068	0.004	0.0015782

Device Test: 23.25 THRESHOLD|RISE/PWRGD/14////@VSENSE_VTH_RISING_GOOD





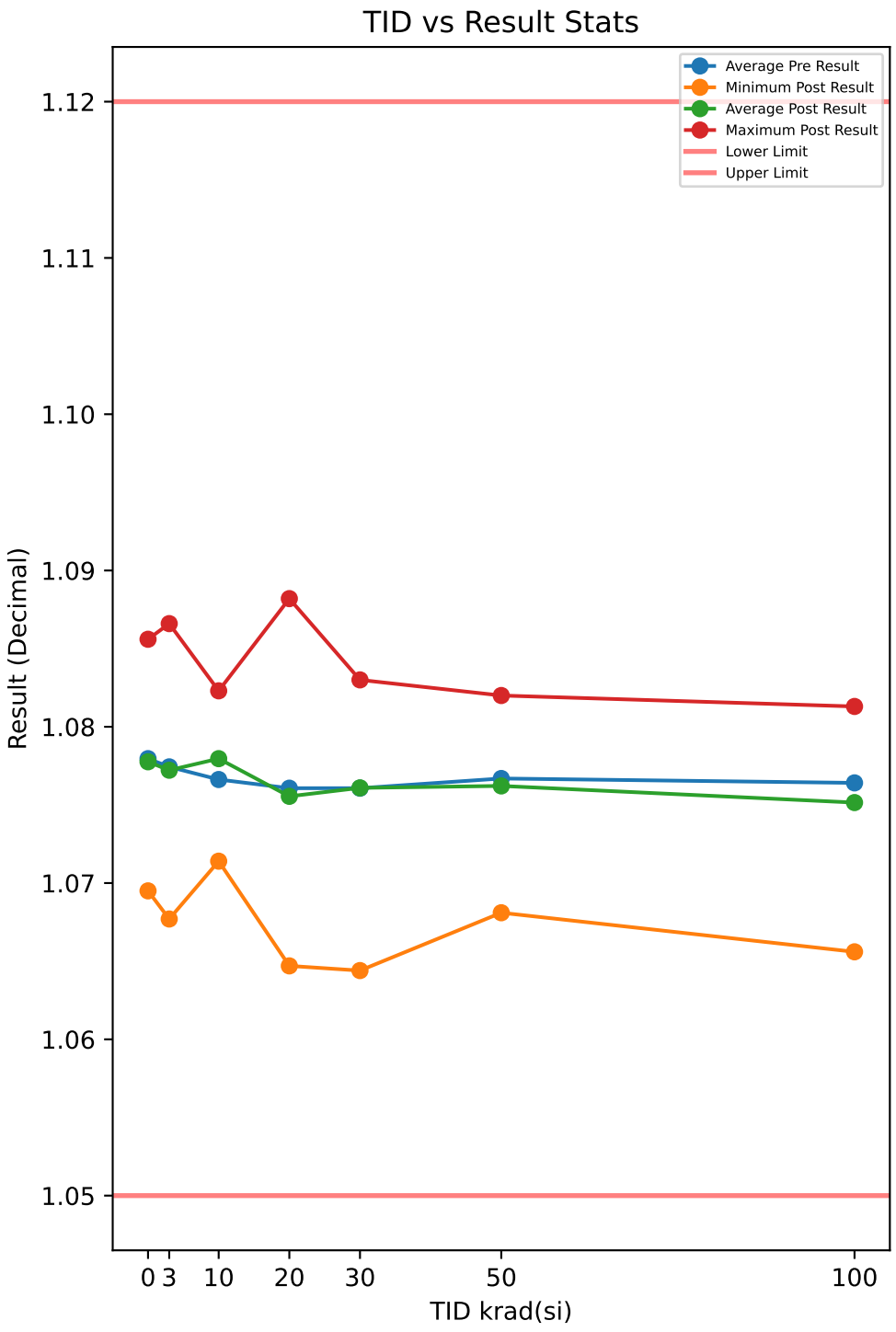
Test Results (Lower Limit = 0.92, Upper Limit = 0.98 (Decimal))

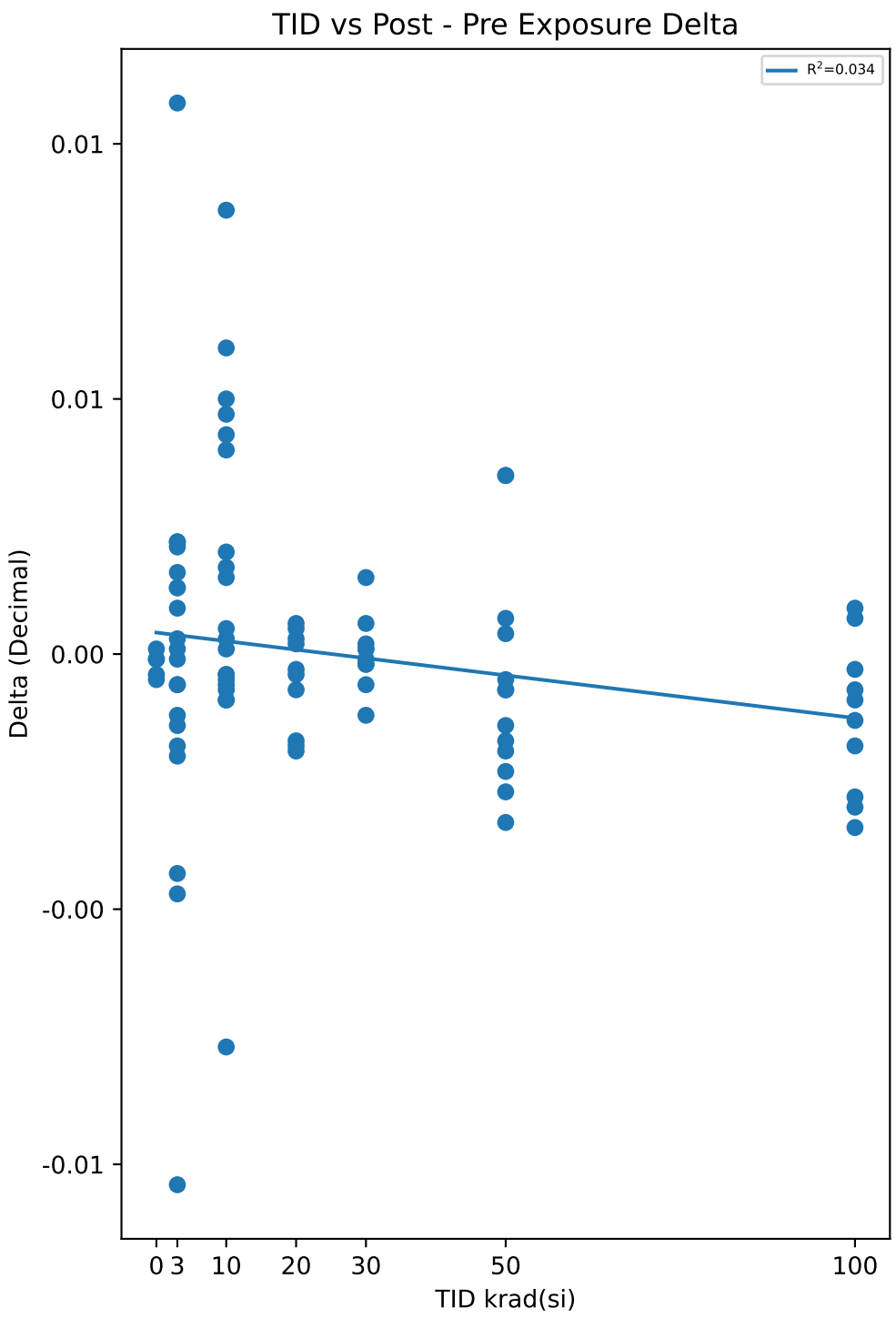
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9477	0.9464	-0.0013
51	3	Biased	0.9538	0.954	0.0002
52	3	Biased	0.9547	0.956	0.0013
53	3	Biased	0.9465	0.9432	-0.0033
54	3	Biased	0.9459	0.9415	-0.0044
55	3	Unbiased	0.9495	0.9454	-0.0041
56	3	Unbiased	0.9532	0.9503	-0.0029
57	3	Unbiased	0.942	0.9436	0.0016
58	3	Unbiased	0.9504	0.9428	-0.0076
59	3	Unbiased	0.945	0.952	0.007
60	10	Biased	0.9473	0.9531	0.0058
61	10	Biased	0.9476	0.9475	-0.0001
62	10	Biased	0.9424	0.9466	0.0042
63	10	Biased	0.9405	0.9429	0.0024
64	10	Biased	0.9432	0.9519	0.0087
65	10	Unbiased	0.9392	0.948	0.0088
66	10	Unbiased	0.9483	0.9521	0.0038
67	10	Unbiased	0.9497	0.9506	0.0009
68	10	Unbiased	0.9481	0.9456	-0.0025
69	10	Unbiased	0.9468	0.9441	-0.0027
100	20	Biased	0.9495	0.9468	-0.0027
200	20	Biased	0.9462	0.9464	0.0002
300	20	Biased	0.9413	0.9414	0.0001
400	20	Biased	0.9553	0.953	-0.0023
500	20	Biased	0.9411	0.9415	0.0004
600	20	Unbiased	0.9373	0.9371	-0.0002
700	20	Unbiased	0.9471	0.9479	0.0008
800	20	Unbiased	0.9501	0.9501	0
900	20	Unbiased	0.945	0.9459	0.0009
1000	20	Unbiased	0.9448	0.944	-0.0008
1100	30	Biased	0.9504	0.9517	0.0013
1200	30	Biased	0.9459	0.9474	0.0015
1300	30	Biased	0.9509	0.9531	0.0022
1400	30	Biased	0.9489	0.9501	0.0012
1500	30	Biased	0.9444	0.9456	0.0012
1600	30	Unbiased	0.9328	0.9341	0.0013
1700	30	Unbiased	0.9412	0.9413	0.0001
1800	30	Unbiased	0.9402	0.9405	0.0003
1900	30	Unbiased	0.948	0.9482	0.0002
2000	30	Unbiased	0.9459	0.9458	-0.0001
2100	50	Biased-84Hr-Anneal	0.9456	0.9501	0.0045
2200	50	Biased-84Hr-Anneal	0.9506	0.951	0.0004
2300	50	Biased-84Hr-Anneal	0.9505	0.9513	0.0008
2400	50	Biased-84Hr-Anneal	0.9472	0.9458	-0.0014
2500	50	Biased-84Hr-Anneal	0.9472	0.9489	0.0017
2600	50	Unbiased	0.9466	0.9449	-0.0017
2700	50	Unbiased	0.9494	0.9485	-0.0009
2800	50	Unbiased	0.9478	0.9488	0.001
2900	50	Unbiased	0.9437	0.9431	-0.0006
3000	50	Unbiased	0.9416	0.9413	-0.0003
4000	100	Biased-168Hr-Anneal	0.9468	0.9509	0.0041
4100	100	Biased-168Hr-Anneal	0.9413	0.9411	-0.0002
4200	100	Biased-168Hr-Anneal	0.945	0.9468	0.0018
4300	100	Biased-168Hr-Anneal	0.9523	0.9534	0.0011
4400	100	Biased-168Hr-Anneal	0.946	0.9473	0.0013
4500	100	Unbiased-168Hr-Anneal	0.9478	0.9491	0.0013
4600	100	Unbiased-168Hr-Anneal	0.943	0.9425	-0.0005
4700	100	Unbiased-168Hr-Anneal	0.9492	0.9477	-0.0015
4800	100	Unbiased-168Hr-Anneal	0.9425	0.9434	0.0009
4900	100	Unbiased-168Hr-Anneal	0.9477	0.9468	-0.0009
9300	0	CORRELATION	0.9484	0.9492	0.0008
9400	0	CORRELATION	0.9404	0.9403	-0.0001
9500	0	CORRELATION	0.9484	0.9482	-0.0002
9600	0	CORRELATION	0.9548	0.9546	-0.0002
9700	0	CORRELATION	0.9488	0.9489	0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9404	0.94816	0.9548	0.0051194	0.9403	0.94824	0.9546	0.0051199	-0.0002	8e-05	0.0008	0.00042071
3	0.942	0.94887	0.9547	0.0041868	0.9415	0.94752	0.956	0.0051639	-0.0076	-0.00135	0.007	0.0040823
10	0.9392	0.94531	0.9497	0.0036638	0.9429	0.94824	0.9531	0.0035497	-0.0027	0.00293	0.0088	0.0041247
20	0.9373	0.94577	0.9553	0.0051694	0.9371	0.94541	0.953	0.0046112	-0.0027	-0.00036	0.0009	0.0012304
30	0.9328	0.94486	0.9509	0.0055406	0.9341	0.94578	0.9531	0.0057752	-0.0001	0.00092	0.0022	0.00074803
50	0.9416	0.94702	0.9506	0.0028647	0.9413	0.94737	0.9513	0.0034218	-0.0017	0.00035	0.0045	0.0018204
100	0.9413	0.94616	0.9523	0.0033464	0.9411	0.9469	0.9534	0.0037883	-0.0015	0.00074	0.0041	0.0016098

Device Test: 23.26 THRESHOLD|RISE/PWRGD/14////@VSENSE_VTH_RISING_FAULT





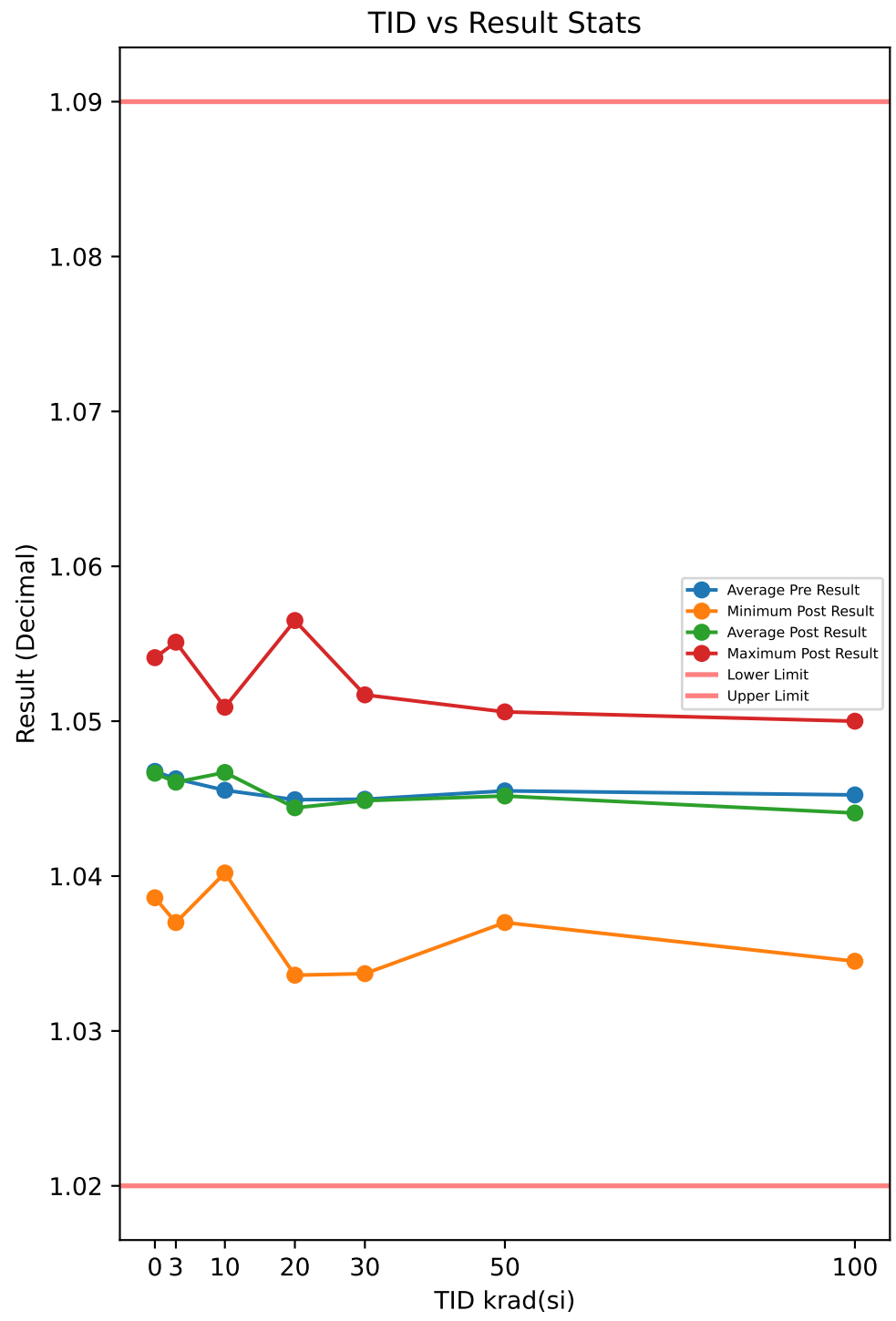
Test Results (Lower Limit = 1.05, Upper Limit = 1.12 (Decimal))

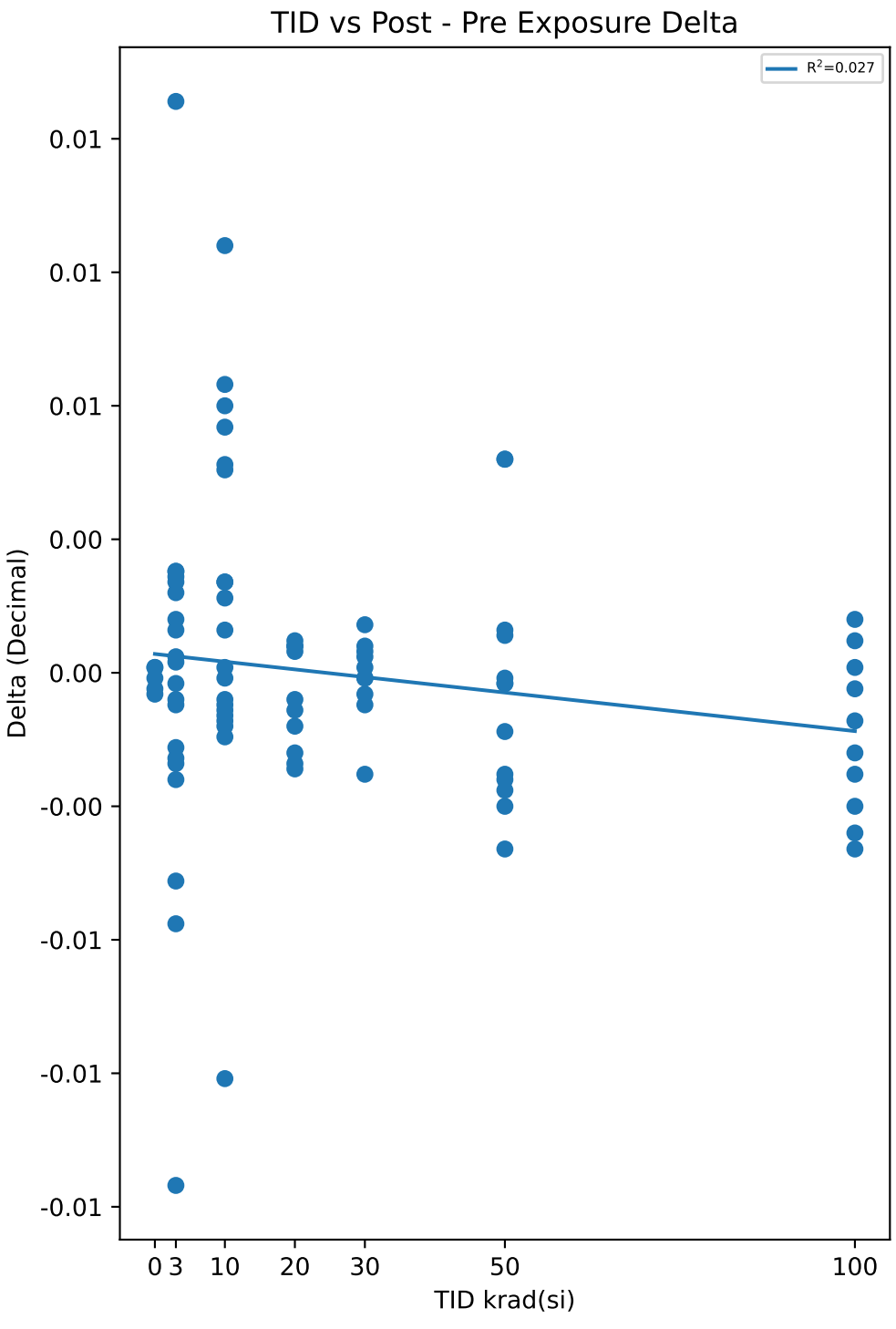
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0774	1.0754	-0.002
51	3	Biased	1.082	1.0836	0.0016
52	3	Biased	1.0853	1.0866	0.0013
53	3	Biased	1.0745	1.0733	-0.0012
54	3	Biased	1.0781	1.0677	-0.0104
55	3	Unbiased	1.0796	1.0749	-0.0047
56	3	Unbiased	1.0821	1.0803	-0.0018
57	3	Unbiased	1.0712	1.0733	0.0021
58	3	Unbiased	1.0775	1.0732	-0.0043
59	3	Unbiased	1.0731	1.0839	0.0108
60	10	Biased	1.0776	1.0819	0.0043
61	10	Biased	1.0767	1.0758	-0.0009
62	10	Biased	1.0708	1.0755	0.0047
63	10	Biased	1.0697	1.0747	0.005
64	10	Biased	1.0732	1.0819	0.0087
65	10	Unbiased	1.0701	1.0761	0.006
66	10	Unbiased	1.0783	1.0823	0.004
67	10	Unbiased	1.0815	1.082	0.0005
68	10	Unbiased	1.0784	1.078	-0.0004
69	10	Unbiased	1.0791	1.0714	-0.0077
100	20	Biased	1.0781	1.0762	-0.0019
200	20	Biased	1.0775	1.0771	-0.0004
300	20	Biased	1.0722	1.0724	0.0002
400	20	Biased	1.0899	1.0882	-0.0017
500	20	Biased	1.0705	1.0698	-0.0007
600	20	Unbiased	1.065	1.0647	-0.0003
700	20	Unbiased	1.0747	1.0752	0.0005
800	20	Unbiased	1.0807	1.0813	0.0006
900	20	Unbiased	1.0763	1.0766	0.0003
1000	20	Unbiased	1.0758	1.074	-0.0018
1100	30	Biased	1.0831	1.083	-0.0001
1200	30	Biased	1.0746	1.0748	0.0002
1300	30	Biased	1.0815	1.083	0.0015
1400	30	Biased	1.0833	1.0827	-0.0006
1500	30	Biased	1.0752	1.0753	0.0001
1600	30	Unbiased	1.0643	1.0644	0.0001
1700	30	Unbiased	1.0717	1.0715	-0.0002
1800	30	Unbiased	1.0698	1.0704	0.0006
1900	30	Unbiased	1.0812	1.08	-0.0012
2000	30	Unbiased	1.076	1.0758	-0.0002
2100	50	Biased-84Hr-Anneal	1.077	1.0805	0.0035
2200	50	Biased-84Hr-Anneal	1.0834	1.082	-0.0014
2300	50	Biased-84Hr-Anneal	1.0812	1.0807	-0.0005
2400	50	Biased-84Hr-Anneal	1.0759	1.0732	-0.0027
2500	50	Biased-84Hr-Anneal	1.0738	1.0742	0.0004
2600	50	Unbiased	1.0741	1.0718	-0.0023
2700	50	Unbiased	1.0815	1.0796	-0.0019
2800	50	Unbiased	1.0777	1.0784	0.0007
2900	50	Unbiased	1.0725	1.0692	-0.0033
3000	50	Unbiased	1.0698	1.0681	-0.0017
4000	100	Biased-168Hr-Anneal	1.0771	1.078	0.0009
4100	100	Biased-168Hr-Anneal	1.0686	1.0656	-0.003
4200	100	Biased-168Hr-Anneal	1.0763	1.0745	-0.0018
4300	100	Biased-168Hr-Anneal	1.0826	1.0813	-0.0013
4400	100	Biased-168Hr-Anneal	1.0781	1.0753	-0.0028
4500	100	Unbiased-168Hr-Anneal	1.08	1.0797	-0.0003
4600	100	Unbiased-168Hr-Anneal	1.0739	1.0732	-0.0007
4700	100	Unbiased-168Hr-Anneal	1.0764	1.0755	-0.0009
4800	100	Unbiased-168Hr-Anneal	1.0724	1.0731	0.0007
4900	100	Unbiased-168Hr-Anneal	1.0787	1.0753	-0.0034
9300	0	CORRELATION	1.0777	1.0778	0.0001
9400	0	CORRELATION	1.0696	1.0695	-0.0001
9500	0	CORRELATION	1.0769	1.0764	-0.0005
9600	0	CORRELATION	1.086	1.0856	-0.0004
9700	0	CORRELATION	1.0796	1.0795	-0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0696	1.078	1.086	0.0058824	1.0695	1.0778	1.0856	0.0058003	-0.0005	-0.0002	0.0001	0.00024495
3	1.0712	1.0781	1.0853	0.004368	1.0677	1.0772	1.0866	0.0060463	-0.0104	-0.00086	0.0108	0.005531
10	1.0697	1.0755	1.0815	0.0042325	1.0714	1.078	1.0823	0.0038592	-0.0077	0.00242	0.0087	0.0046573
20	1.065	1.0761	1.0899	0.0065779	1.0647	1.0756	1.0882	0.0063267	-0.0019	-0.00052	0.0006	0.00097274
30	1.0643	1.0761	1.0833	0.0063013	1.0644	1.0761	1.083	0.0062089	-0.0012	2e-05	0.0015	0.00071149
50	1.0698	1.0767	1.0834	0.0043503	1.0681	1.0758	1.082	0.0050979	-0.0033	-0.00092	0.0035	0.002017
100	1.0686	1.0764	1.0826	0.0039884	1.0656	1.0752	1.0813	0.0043005	-0.0034	-0.00126	0.0009	0.0014961

Device Test: 23.27 THRESHOLD|FALL/PWRGD/14////@VSENSE_VTH_FALLING_GOOD





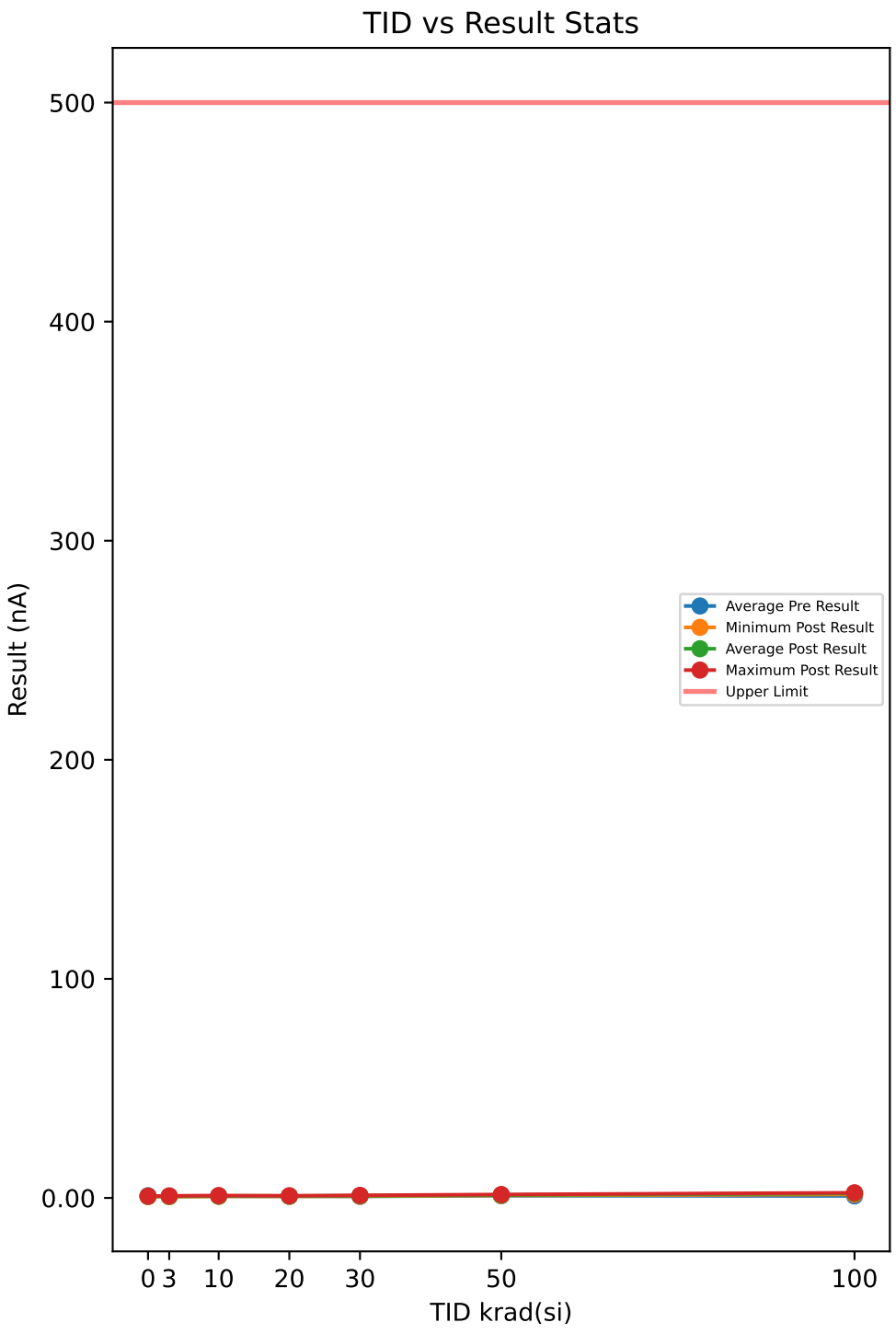
Test Results (Lower Limit = 1.02, Upper Limit = 1.09 (Decimal))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0463	1.0443	-0.002
51	3	Biased	1.0505	1.0523	0.0018
52	3	Biased	1.0541	1.0551	0.001
53	3	Biased	1.0438	1.0422	-0.0016
54	3	Biased	1.0466	1.037	-0.0096
55	3	Unbiased	1.0485	1.0438	-0.0047
56	3	Unbiased	1.0506	1.0489	-0.0017
57	3	Unbiased	1.0403	1.042	0.0017
58	3	Unbiased	1.0463	1.0424	-0.0039
59	3	Unbiased	1.0419	1.0526	0.0107
60	10	Biased	1.0468	1.0506	0.0038
61	10	Biased	1.0458	1.0446	-0.0012
62	10	Biased	1.0396	1.0446	0.005
63	10	Biased	1.0391	1.0437	0.0046
64	10	Biased	1.0425	1.0505	0.008
65	10	Unbiased	1.0392	1.0446	0.0054
66	10	Unbiased	1.047	1.0509	0.0039
67	10	Unbiased	1.0504	1.0505	0.0001
68	10	Unbiased	1.0473	1.0467	-0.0006
69	10	Unbiased	1.0478	1.0402	-0.0076
100	20	Biased	1.0468	1.0451	-0.0017
200	20	Biased	1.0463	1.0456	-0.0007
300	20	Biased	1.0409	1.0413	0.0004
400	20	Biased	1.058	1.0565	-0.0015
500	20	Biased	1.0396	1.0386	-0.001
600	20	Unbiased	1.0341	1.0336	-0.0005
700	20	Unbiased	1.0439	1.0445	0.0006
800	20	Unbiased	1.0498	1.0503	0.0005
900	20	Unbiased	1.0452	1.0457	0.0005
1000	20	Unbiased	1.0447	1.0429	-0.0018
1100	30	Biased	1.0518	1.0517	-0.0001
1200	30	Biased	1.0431	1.0435	0.0004
1300	30	Biased	1.0504	1.0513	0.0009
1400	30	Biased	1.052	1.0514	-0.0006
1500	30	Biased	1.0441	1.044	-0.0001
1600	30	Unbiased	1.0334	1.0337	0.0003
1700	30	Unbiased	1.0407	1.0408	0.0001
1800	30	Unbiased	1.039	1.0395	0.0005
1900	30	Unbiased	1.0502	1.0483	-0.0019
2000	30	Unbiased	1.0449	1.0445	-0.0004
2100	50	Biased-84Hr-Anneal	1.0454	1.0494	0.004
2200	50	Biased-84Hr-Anneal	1.0517	1.0506	-0.0011
2300	50	Biased-84Hr-Anneal	1.0497	1.0496	-0.0001
2400	50	Biased-84Hr-Anneal	1.0448	1.0423	-0.0025
2500	50	Biased-84Hr-Anneal	1.0425	1.0433	0.0008
2600	50	Unbiased	1.0432	1.041	-0.0022
2700	50	Unbiased	1.0504	1.0484	-0.002
2800	50	Unbiased	1.0466	1.0473	0.0007
2900	50	Unbiased	1.0418	1.0385	-0.0033
3000	50	Unbiased	1.0389	1.037	-0.0019
4000	100	Biased-168Hr-Anneal	1.0458	1.0464	0.0006
4100	100	Biased-168Hr-Anneal	1.0375	1.0345	-0.003
4200	100	Biased-168Hr-Anneal	1.0454	1.0435	-0.0019
4300	100	Biased-168Hr-Anneal	1.0515	1.05	-0.0015
4400	100	Biased-168Hr-Anneal	1.0468	1.0443	-0.0025
4500	100	Unbiased-168Hr-Anneal	1.0485	1.0486	0.0001
4600	100	Unbiased-168Hr-Anneal	1.0426	1.0423	-0.0003
4700	100	Unbiased-168Hr-Anneal	1.0451	1.0442	-0.0009
4800	100	Unbiased-168Hr-Anneal	1.0416	1.0426	0.001
4900	100	Unbiased-168Hr-Anneal	1.0476	1.0443	-0.0033
9300	0	CORRELATION	1.0466	1.0465	-0.0001
9400	0	CORRELATION	1.0385	1.0386	0.0001
9500	0	CORRELATION	1.0458	1.0454	-0.0004
9600	0	CORRELATION	1.0544	1.0541	-0.0003
9700	0	CORRELATION	1.0485	1.0486	0.0001

Test Statistics (Decimal)

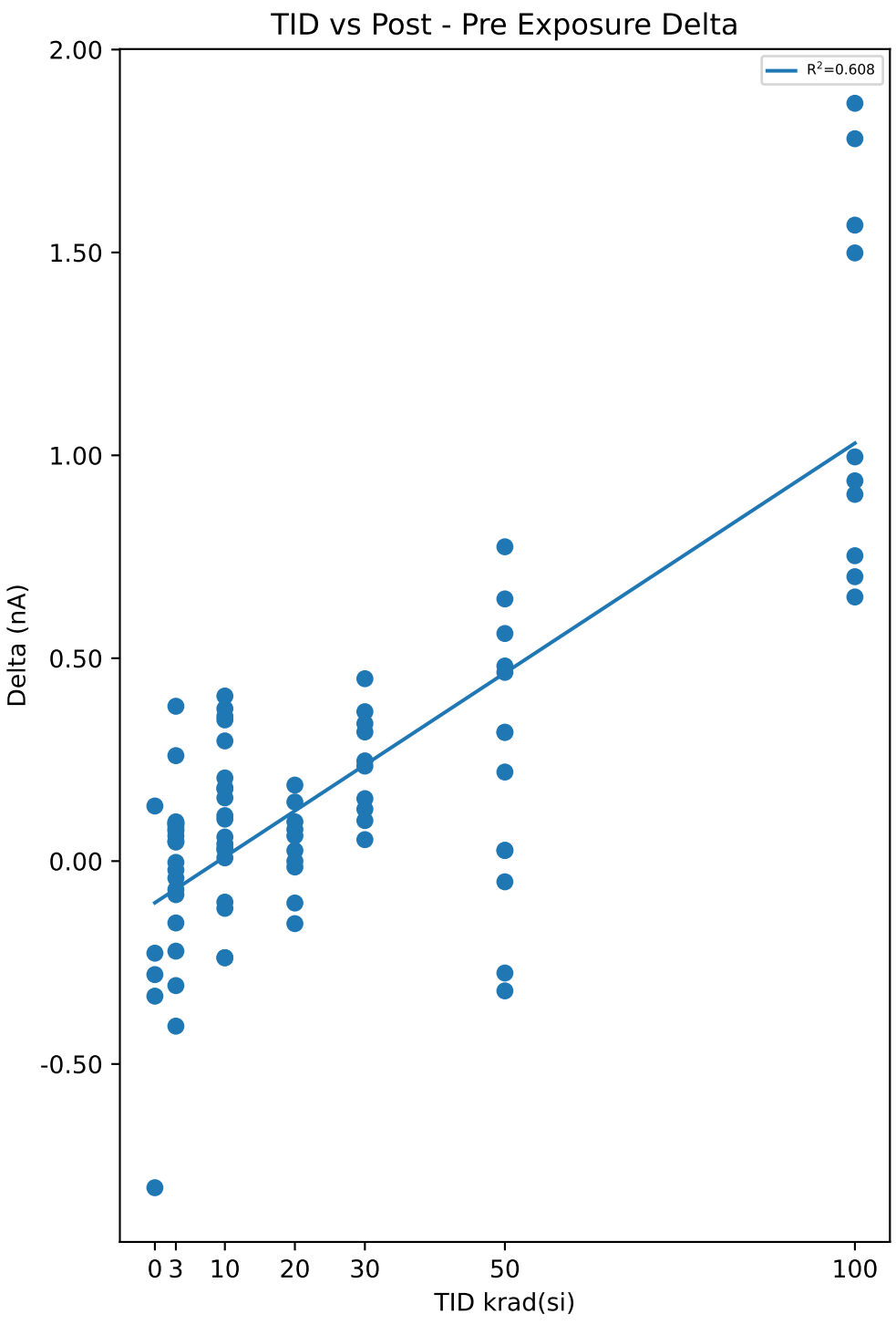
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0385	1.0468	1.0544	0.0057134	1.0386	1.0466	1.0541	0.0056056	-0.0004	-0.00012	0.0001	0.00022804
3	1.0403	1.0469	1.0541	0.0042168	1.037	1.0461	1.0551	0.0058363	-0.0096	-0.00083	0.0107	0.0053087
10	1.0391	1.0445	1.0504	0.0041097	1.0402	1.0467	1.0509	0.0037448	-0.0076	0.00214	0.008	0.0045061
20	1.0341	1.0449	1.058	0.0063512	1.0336	1.0444	1.0565	0.0062092	-0.0018	-0.00052	0.0006	0.00096816
30	1.0334	1.045	1.052	0.0061905	1.0337	1.0449	1.0517	0.0059193	-0.0019	-9e-05	0.0009	0.00077381
50	1.0389	1.0455	1.0517	0.0041277	1.037	1.0447	1.0506	0.0049496	-0.0033	-0.00076	0.004	0.0021645
100	1.0375	1.0452	1.0515	0.0039201	1.0345	1.0441	1.05	0.0041958	-0.0033	-0.00117	0.001	0.0015122

Device Test: 23.28 LEAK|MAX/PWRGD/14////@PWRGD_OUTPUT_HIGH_LEAK



Test Results (Upper Limit = 500.0 (nA))

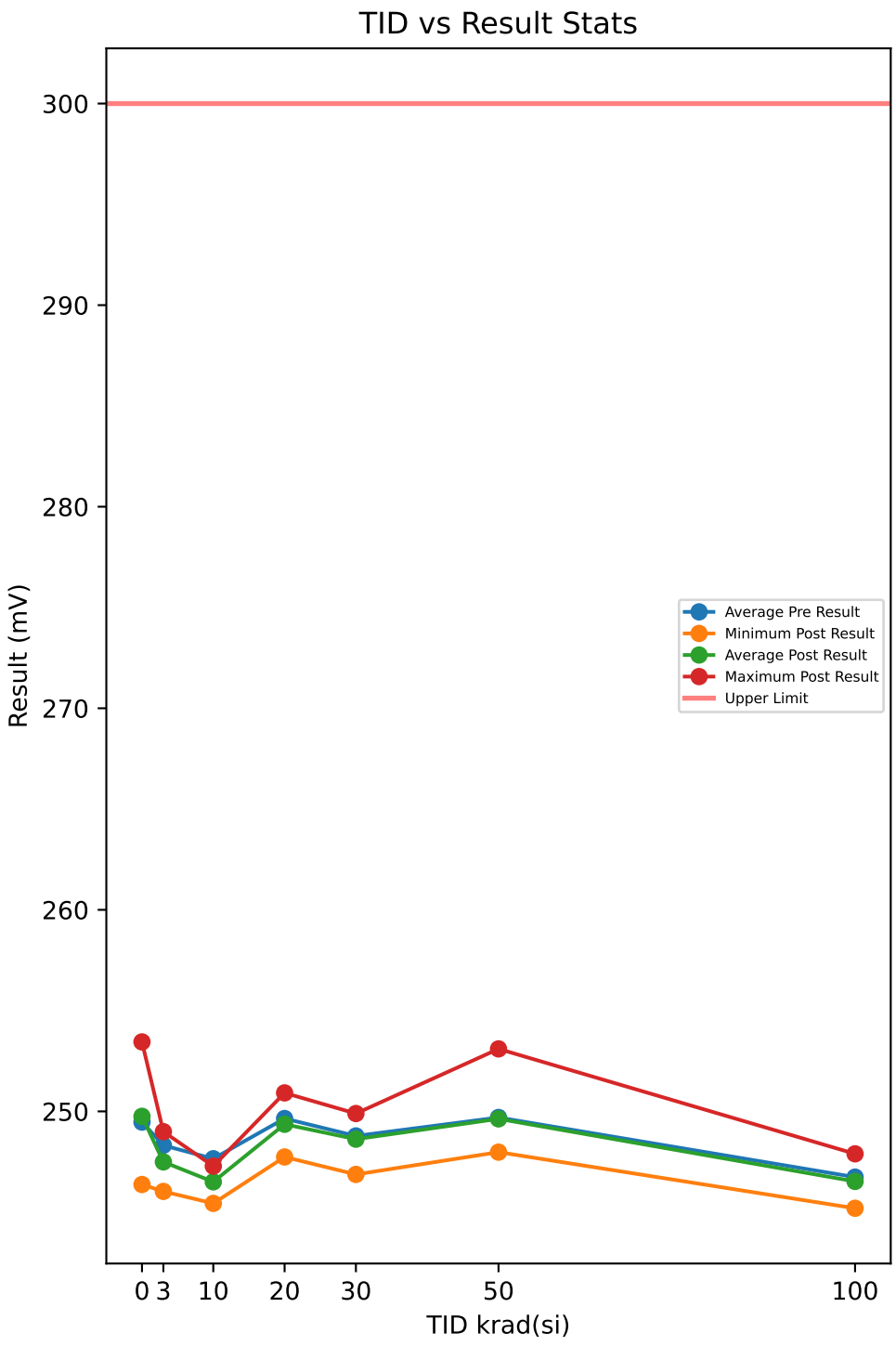
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.8441	0.9371	0.093
51	3	Biased	0.6753	0.6053	-0.07
52	3	Biased	0.6035	0.6657	0.0622
53	3	Biased	0.7452	0.6625	-0.0827
54	3	Biased	0.8691	0.9183	0.0492
55	3	Unbiased	0.9001	0.6782	-0.2219
56	3	Unbiased	0.6503	0.6085	-0.0418
57	3	Unbiased	0.7203	0.5679	-0.1524
58	3	Unbiased	0.8503	0.9433	0.093
59	3	Unbiased	0.7846	0.8589	0.0743
60	10	Biased	0.6784	0.7209	0.0425
61	10	Biased	0.5648	0.9404	0.3756
62	10	Biased	0.7847	1.0809	0.2962
63	10	Biased	0.8002	0.9123	0.1121
64	10	Biased	0.5816	0.7865	0.2049
65	10	Unbiased	0.6923	1.0403	0.348
66	10	Unbiased	0.716	0.724	0.008
67	10	Unbiased	0.8002	0.9809	0.1807
68	10	Unbiased	0.719	0.8749	0.1559
69	10	Unbiased	0.8479	0.7468	-0.1011
100	20	Biased	0.9677	0.8136	-0.1541
200	20	Biased	0.7566	0.7421	-0.0145
300	20	Biased	0.7221	0.8189	0.0968
400	20	Biased	0.5567	0.744	0.1873
500	20	Biased	0.7265	0.7888	0.0623
600	20	Unbiased	0.9534	0.8501	-0.1033
700	20	Unbiased	0.9126	0.9906	0.078
800	20	Unbiased	0.8002	0.8261	0.0259
900	20	Unbiased	0.7794	0.925	0.1456
1000	20	Unbiased	0.7847	0.7846	-0.0001
1100	30	Biased	0.7377	0.9847	0.247
1200	30	Biased	0.6597	1.1092	0.4495
1300	30	Biased	0.7421	1.0811	0.339
1400	30	Biased	0.7847	1.103	0.3183
1500	30	Biased	0.6972	0.7971	0.0999
1600	30	Unbiased	0.7752	0.9032	0.128
1700	30	Unbiased	0.7514	0.8043	0.0529
1800	30	Unbiased	0.8097	1.1779	0.3682
1900	30	Unbiased	0.694	0.9282	0.2342
2000	30	Unbiased	0.6815	0.8354	0.1539
2100	50	Biased-84Hr-Anneal	1.2383	1.5557	0.3174
2200	50	Biased-84Hr-Anneal	1.4069	1.3559	-0.051
2300	50	Biased-84Hr-Anneal	1.4287	1.1529	-0.2758
2400	50	Biased-84Hr-Anneal	1.4787	1.1589	-0.3198
2500	50	Biased-84Hr-Anneal	0.9178	1.1373	0.2195
2600	50	Unbiased	0.7691	1.33	0.5609
2700	50	Unbiased	0.9625	1.4277	0.4652
2800	50	Unbiased	0.7252	1.206	0.4808
2900	50	Unbiased	0.599	1.3736	0.7746
3000	50	Unbiased	0.6348	1.2809	0.6461
4000	100	Biased-168Hr-Anneal	0.3593	2.2269	1.8676
4100	100	Biased-168Hr-Anneal	0.906	1.6069	0.7009
4200	100	Biased-168Hr-Anneal	1.5885	2.3411	0.7526
4300	100	Biased-168Hr-Anneal	0.8498	2.3486	1.4988
4400	100	Biased-168Hr-Anneal	0.5278	2.308	1.7802
4500	100	Unbiased-168Hr-Anneal	1.2013	1.8522	0.6509
4600	100	Unbiased-168Hr-Anneal	0.8342	1.8304	0.9962
4700	100	Unbiased-168Hr-Anneal	1.27	2.1738	0.9038
4800	100	Unbiased-168Hr-Anneal	0.5871	2.1544	1.5673
4900	100	Unbiased-168Hr-Anneal	0.9528	1.89	0.9372
9300	0	CORRELATION	0.6363	0.7721	0.1358
9400	0	CORRELATION	0.8801	0.6004	-0.2797
9500	0	CORRELATION	1.4568	0.6519	-0.8049
9600	0	CORRELATION	0.8398	0.6129	-0.2269
9700	0	CORRELATION	1.1486	0.8158	-0.3328



Test Statistics (nA)

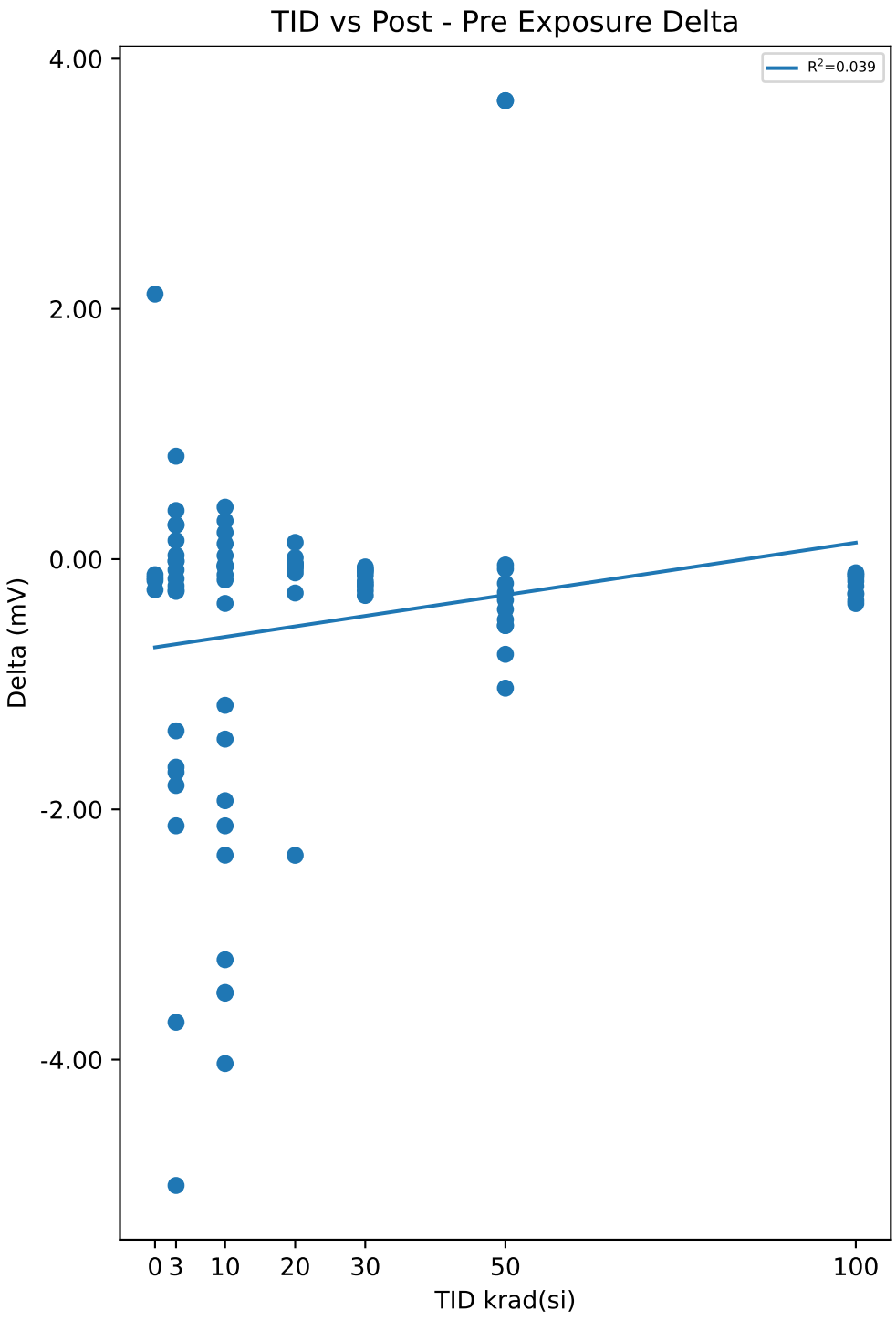
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6363	0.99232	1.4568	0.31732	0.6004	0.69062	0.8158	0.097453	-0.8049	-0.3017	0.1358	0.33603
3	0.6035	0.76428	0.9001	0.10148	0.5679	0.74457	0.9433	0.1514	-0.2219	-0.01971	0.093	0.11114
10	0.5648	0.71851	0.8479	0.093774	0.7209	0.88079	1.0809	0.13211	-0.1011	0.16228	0.3756	0.15281
20	0.5567	0.79599	0.9677	0.12355	0.7421	0.82838	0.9906	0.077806	-0.1541	0.03239	0.1873	0.10563
30	0.6597	0.73332	0.8097	0.048998	0.7971	0.97241	1.1779	0.13923	0.0529	0.23909	0.4495	0.1295
50	0.599	1.0161	1.4787	0.34381	1.1373	1.2979	1.5557	0.13675	-0.3198	0.28179	0.7746	0.38231
100	0.3593	0.90768	1.5885	0.37112	1.6069	2.0732	2.3486	0.2586	0.6509	1.1656	1.8676	0.46473

Device Test: 23.29 VOL|2mA/PWRGD/14////@PWRGD_OUTPUT_LOW



Test Results (Upper Limit = 300.0 (mV))

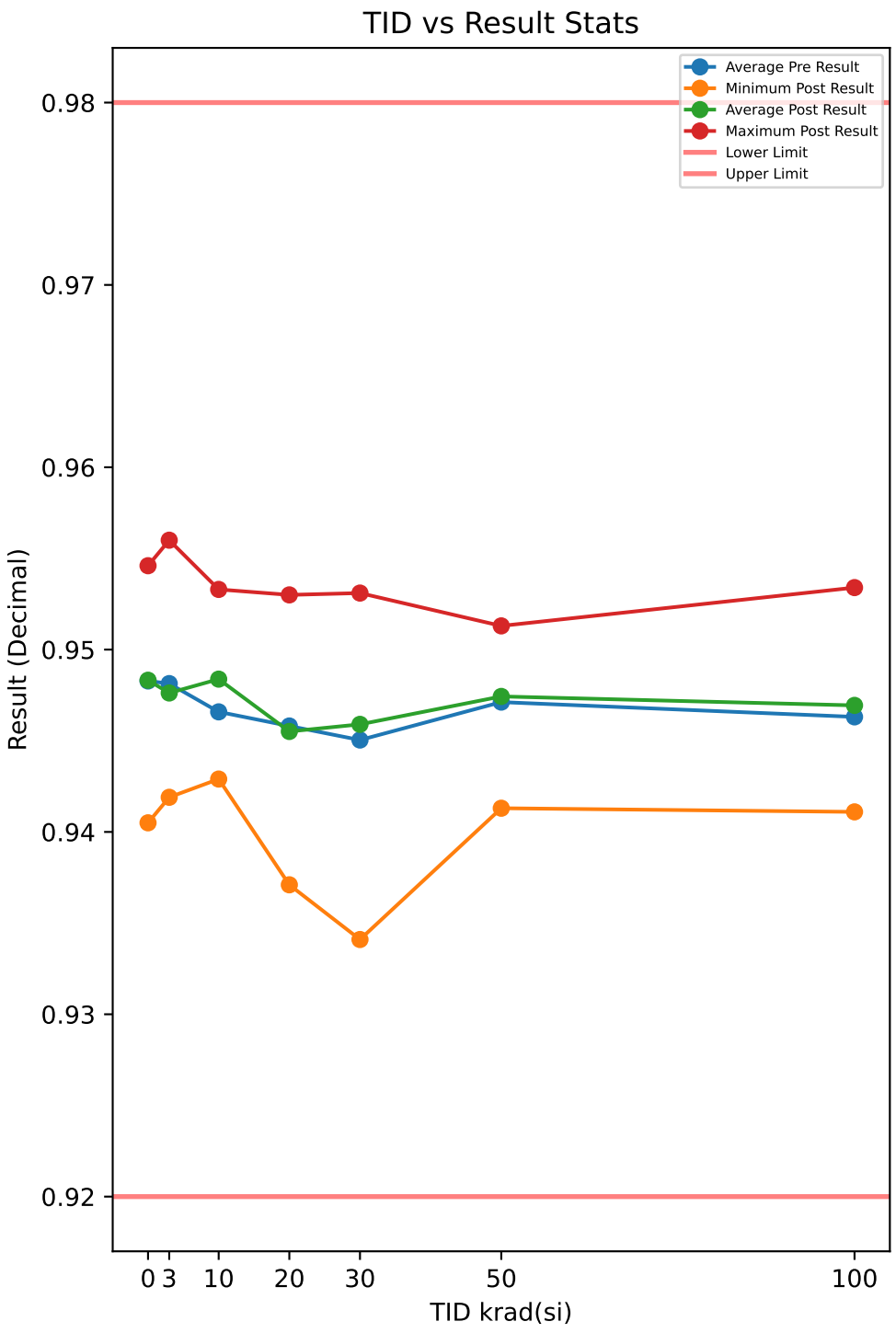
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	249.17	247.5	-1.6626
51	3	Biased	252.47	247.46	-5.0058
52	3	Biased	249.73	246.03	-3.7017
53	3	Biased	249.07	247.26	-1.8088
54	3	Biased	247.92	248.74	0.8223
55	3	Unbiased	248.46	246.33	-2.1312
56	3	Unbiased	248.61	248.99	0.3886
57	3	Unbiased	248.88	247.51	-1.3727
58	3	Unbiased	246.84	247.11	0.273
59	3	Unbiased	249.71	248	-1.7026
60	10	Biased	250.34	246.87	-3.4691
61	10	Biased	247.93	246.76	-1.1682
62	10	Biased	248.03	246.09	-1.9305
63	10	Biased	249.24	247.11	-2.1314
64	10	Biased	250.23	246.2	-4.0314
65	10	Unbiased	248.99	246.63	-2.3661
66	10	Unbiased	247.23	247.17	-0.0619
67	10	Unbiased	248.72	247.28	-1.4384
68	10	Unbiased	248.64	245.44	-3.2017
69	10	Unbiased	248.96	245.5	-3.4636
100	20	Biased	250.61	248.24	-2.367
200	20	Biased	249.96	249.91	-0.0475
300	20	Biased	250.78	250.67	-0.1094
400	20	Biased	251	250.92	-0.0781
500	20	Biased	249.6	249.57	-0.0312
600	20	Unbiased	247.78	247.74	-0.0372
700	20	Unbiased	249.52	249.65	0.1339
800	20	Unbiased	249.75	249.76	0.012
900	20	Unbiased	248.01	247.74	-0.2705
1000	20	Unbiased	249.46	249.4	-0.0595
1100	30	Biased	249.89	249.7	-0.1976
1200	30	Biased	249.86	249.57	-0.2901
1300	30	Biased	247.09	246.87	-0.2148
1400	30	Biased	249.63	249.38	-0.2505
1500	30	Biased	248.44	248.38	-0.0624
1600	30	Unbiased	248.79	248.72	-0.0781
1700	30	Unbiased	248.59	248.49	-0.0937
1800	30	Unbiased	250.02	249.89	-0.131
1900	30	Unbiased	248.32	248.22	-0.1005
2000	30	Unbiased	247.18	247.01	-0.1756
2100	50	Biased-84Hr-Anneal	248.51	252.17	3.6652
2200	50	Biased-84Hr-Anneal	249.54	248.78	-0.7604
2300	50	Biased-84Hr-Anneal	249.99	249.59	-0.4011
2400	50	Biased-84Hr-Anneal	248.77	248.29	-0.4832
2500	50	Biased-84Hr-Anneal	250.64	250.31	-0.3265
2600	50	Unbiased	248.95	248.68	-0.2663
2700	50	Unbiased	248.83	248.78	-0.0469
2800	50	Unbiased	249.12	249.04	-0.0781
2900	50	Unbiased	254.13	253.1	-1.0308
3000	50	Unbiased	248.49	248.3	-0.1934
4000	100	Biased-168Hr-Anneal	247.56	247.23	-0.3303
4100	100	Biased-168Hr-Anneal	245.56	245.28	-0.281
4200	100	Biased-168Hr-Anneal	245.94	245.67	-0.2732
4300	100	Biased-168Hr-Anneal	245.43	245.31	-0.1209
4400	100	Biased-168Hr-Anneal	246.94	246.58	-0.3547
4500	100	Unbiased-168Hr-Anneal	247.38	247.2	-0.1755
4600	100	Unbiased-168Hr-Anneal	245.32	245.19	-0.1293
4700	100	Unbiased-168Hr-Anneal	248.11	247.89	-0.2153
4800	100	Unbiased-168Hr-Anneal	247.44	247.29	-0.1467
4900	100	Unbiased-168Hr-Anneal	247.71	247.6	-0.1091
9300	0	CORRELATION	248.41	250.53	2.1185
9400	0	CORRELATION	253.6	253.45	-0.1498
9500	0	CORRELATION	248.77	248.65	-0.124
9600	0	CORRELATION	249.94	249.77	-0.1704
9700	0	CORRELATION	246.62	246.37	-0.2446

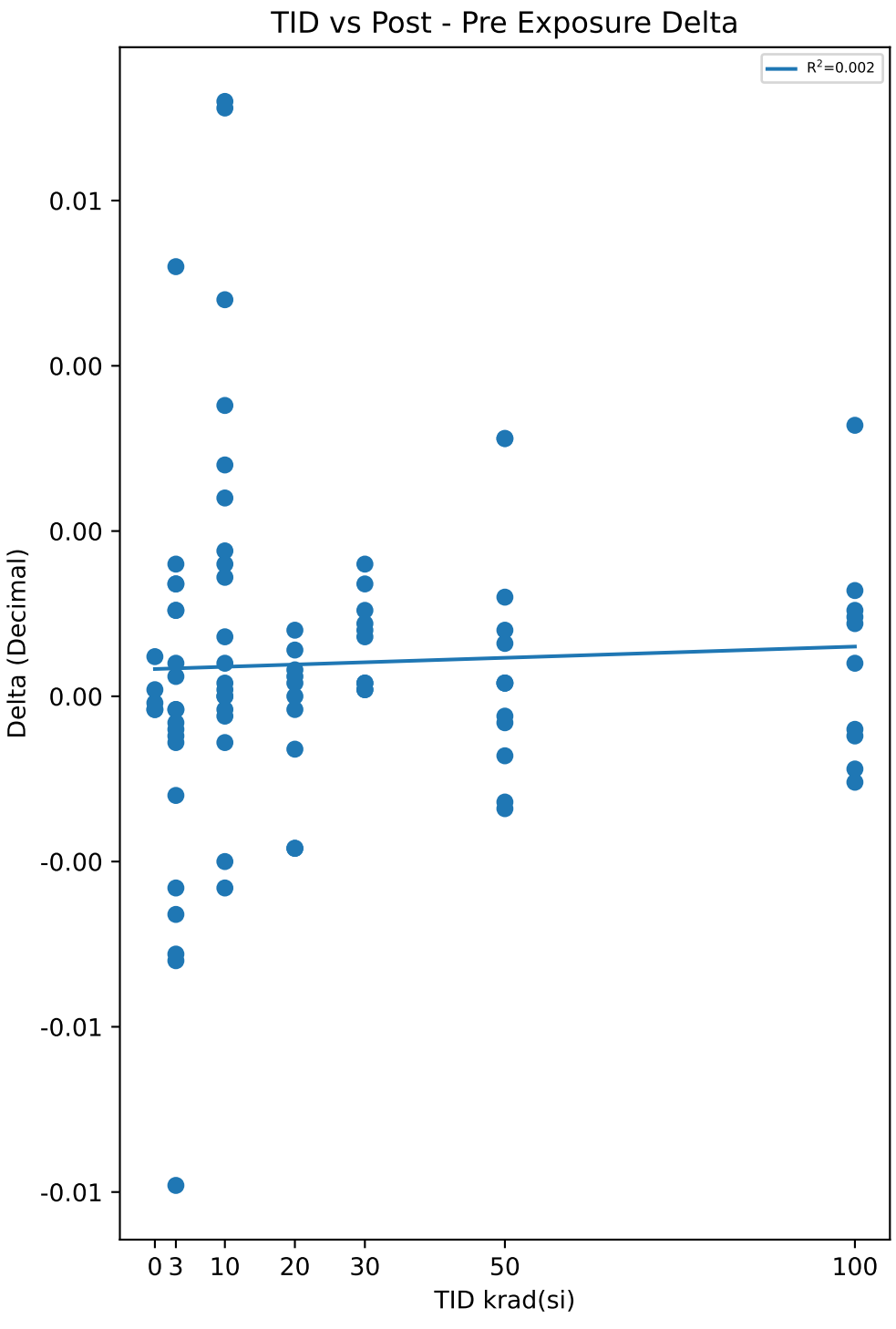


Test Statistics (mV)

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	246.62	249.47	253.6	2.5976	246.37	249.75	253.45	2.5934	-0.2446	0.28594	2.1185	1.0254
3	246.84	249.08	252.47	1.466	246.03	247.49	248.99	0.92937	-5.0058	-1.5901	0.8223	1.8177
10	247.23	248.83	250.34	0.9728	245.44	246.5	247.28	0.67004	-4.0314	-2.3262	-0.0619	1.235
20	247.78	249.65	251	1.0742	247.74	249.36	250.92	1.1183	-2.367	-0.28545	0.1339	0.73827
30	247.09	248.78	250.02	1.0776	246.87	248.62	249.89	1.0619	-0.2901	-0.15943	-0.0624	0.07802
50	248.49	249.7	254.13	1.7005	248.29	249.71	253.1	1.6725	-1.0308	0.00785	3.6652	1.3204
100	245.32	246.74	248.11	1.064	245.19	246.52	247.89	1.0609	-0.3547	-0.2136	-0.1091	0.090782

Device Test: 23.3 THRESHOLD|RISE/PWRGD/4.5////@VSENSE_VTH_RISING_GOOD





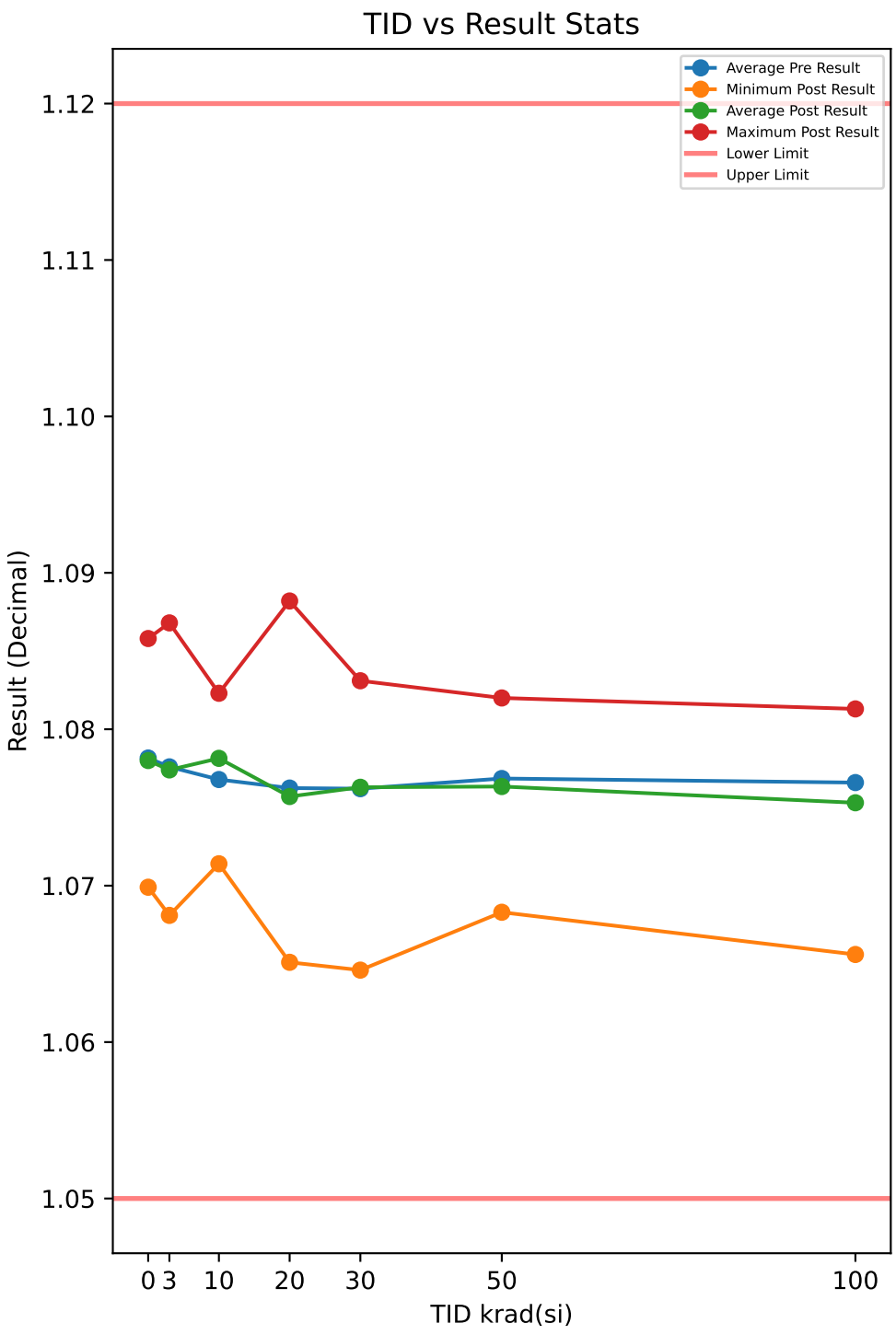
Test Results (Lower Limit = 0.92, Upper Limit = 0.98 (Decimal))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.9479	0.9464	-0.0015
51	3	Biased	0.9545	0.954	-0.0005
52	3	Biased	0.9547	0.956	0.0013
53	3	Biased	0.9465	0.9432	-0.0033
54	3	Biased	0.9459	0.9419	-0.004
55	3	Unbiased	0.9495	0.9456	-0.0039
56	3	Unbiased	0.9532	0.9503	-0.0029
57	3	Unbiased	0.9418	0.9438	0.002
58	3	Unbiased	0.9504	0.943	-0.0074
59	3	Unbiased	0.9455	0.952	0.0065
60	10	Biased	0.9473	0.9533	0.006
61	10	Biased	0.9478	0.9475	-0.0003
62	10	Biased	0.9426	0.947	0.0044
63	10	Biased	0.9407	0.9429	0.0022
64	10	Biased	0.9434	0.9523	0.0089
65	10	Unbiased	0.9392	0.9482	0.009
66	10	Unbiased	0.9486	0.9521	0.0035
67	10	Unbiased	0.9497	0.9506	0.0009
68	10	Unbiased	0.9481	0.9456	-0.0025
69	10	Unbiased	0.9472	0.9443	-0.0029
100	20	Biased	0.9495	0.9472	-0.0023
200	20	Biased	0.9462	0.9464	0.0002
300	20	Biased	0.9413	0.9416	0.0003
400	20	Biased	0.9553	0.953	-0.0023
500	20	Biased	0.9411	0.9415	0.0004
600	20	Unbiased	0.9373	0.9371	-0.0002
700	20	Unbiased	0.9471	0.9481	0.001
800	20	Unbiased	0.9501	0.9501	0
900	20	Unbiased	0.9454	0.9461	0.0007
1000	20	Unbiased	0.9448	0.944	-0.0008
1100	30	Biased	0.9506	0.9519	0.0013
1200	30	Biased	0.9459	0.9476	0.0017
1300	30	Biased	0.9511	0.9531	0.002
1400	30	Biased	0.9494	0.9503	0.0009
1500	30	Biased	0.9446	0.9456	0.001
1600	30	Unbiased	0.933	0.9341	0.0011
1700	30	Unbiased	0.9412	0.9413	0.0001
1800	30	Unbiased	0.9405	0.9407	0.0002
1900	30	Unbiased	0.9482	0.9484	0.0002
2000	30	Unbiased	0.9459	0.946	0.0001
2100	50	Biased-84Hr-Anneal	0.9462	0.9501	0.0039
2200	50	Biased-84Hr-Anneal	0.9508	0.951	0.0002
2300	50	Biased-84Hr-Anneal	0.9505	0.9513	0.0008
2400	50	Biased-84Hr-Anneal	0.9474	0.9458	-0.0016
2500	50	Biased-84Hr-Anneal	0.9474	0.9489	0.0015
2600	50	Unbiased	0.9466	0.9449	-0.0017
2700	50	Unbiased	0.9494	0.9485	-0.0009
2800	50	Unbiased	0.948	0.949	0.001
2900	50	Unbiased	0.9433	0.9429	-0.0004
3000	50	Unbiased	0.9416	0.9413	-0.0003
4000	100	Biased-168Hr-Anneal	0.9468	0.9509	0.0041
4100	100	Biased-168Hr-Anneal	0.9417	0.9411	-0.0006
4200	100	Biased-168Hr-Anneal	0.945	0.9466	0.0016
4300	100	Biased-168Hr-Anneal	0.9523	0.9534	0.0011
4400	100	Biased-168Hr-Anneal	0.9462	0.9475	0.0013
4500	100	Unbiased-168Hr-Anneal	0.9481	0.9493	0.0012
4600	100	Unbiased-168Hr-Anneal	0.943	0.9425	-0.0005
4700	100	Unbiased-168Hr-Anneal	0.9492	0.9479	-0.0013
4800	100	Unbiased-168Hr-Anneal	0.9429	0.9434	0.0005
4900	100	Unbiased-168Hr-Anneal	0.9479	0.9468	-0.0011
9300	0	CORRELATION	0.9486	0.9492	0.0006
9400	0	CORRELATION	0.9406	0.9405	-0.0001
9500	0	CORRELATION	0.9484	0.9482	-0.0002
9600	0	CORRELATION	0.9548	0.9546	-0.0002
9700	0	CORRELATION	0.949	0.9491	0.0001

Test Statistics (Decimal)

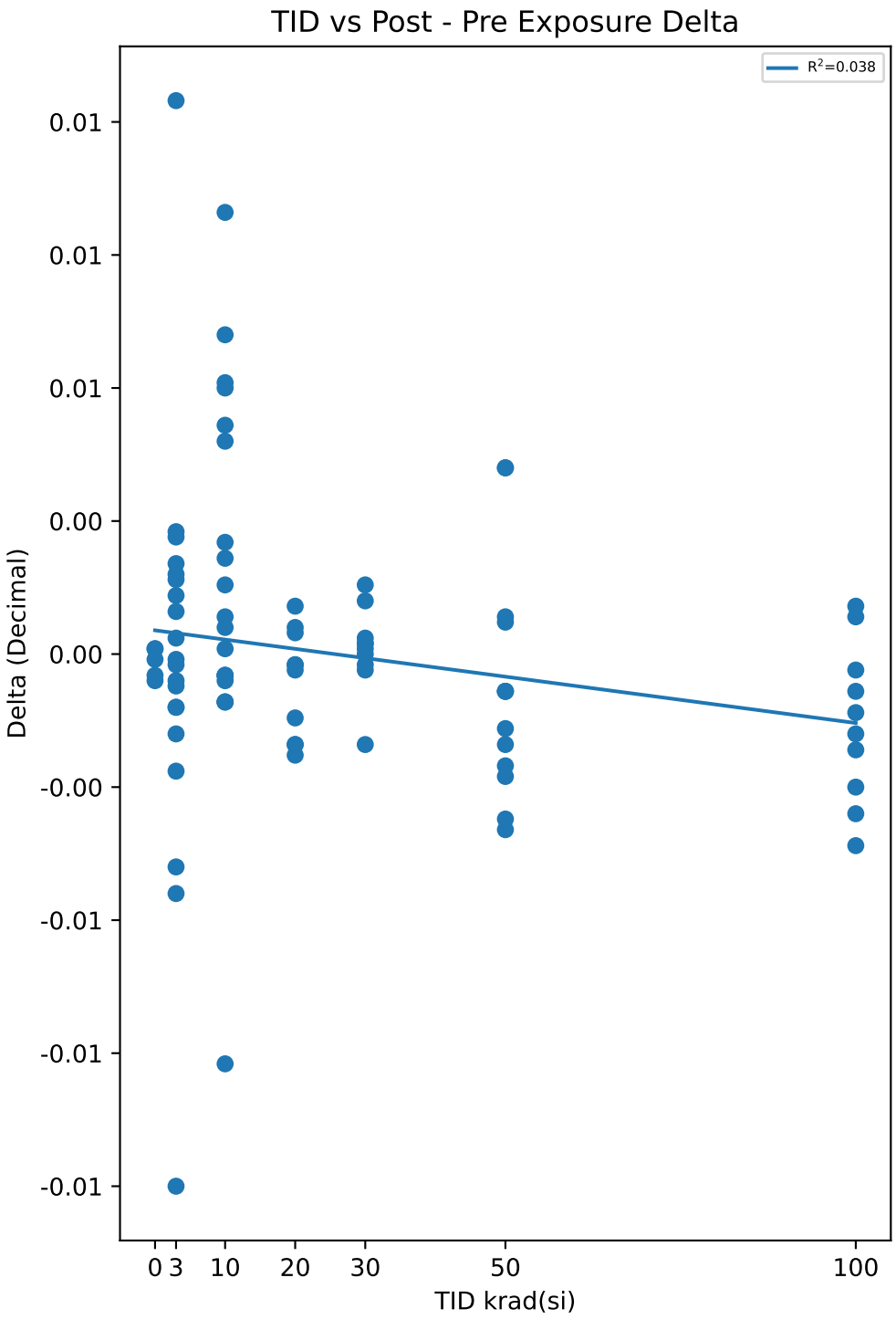
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9406	0.94828	0.9548	0.0050529	0.9405	0.94832	0.9546	0.0050495	-0.0002	4e-05	0.0006	0.00033615
3	0.9418	0.94899	0.9547	0.0042655	0.9419	0.94762	0.956	0.0050668	-0.0074	-0.00137	0.0065	0.0039007
10	0.9392	0.94546	0.9497	0.0036661	0.9429	0.94838	0.9533	0.0035817	-0.0029	0.00292	0.009	0.0042551
20	0.9373	0.94581	0.9553	0.0051643	0.9371	0.94551	0.953	0.0046218	-0.0023	-0.0003	0.001	0.0011614
30	0.933	0.94504	0.9511	0.005564	0.9341	0.9459	0.9531	0.0058107	0.0001	0.00086	0.002	0.00069154
50	0.9416	0.94712	0.9508	0.0029302	0.9413	0.94737	0.9513	0.0034599	-0.0017	0.00025	0.0039	0.0016675
100	0.9417	0.94631	0.9523	0.0032621	0.9411	0.94694	0.9534	0.0038109	-0.0013	0.00063	0.0041	0.0016159

Device Test: 23.4 THRESHOLD|RISE/PWRGD/4.5////@VSENSE_VTH_RISING_FAULT



Test Results (Lower Limit = 1.05, Upper Limit = 1.12 (Decimal))

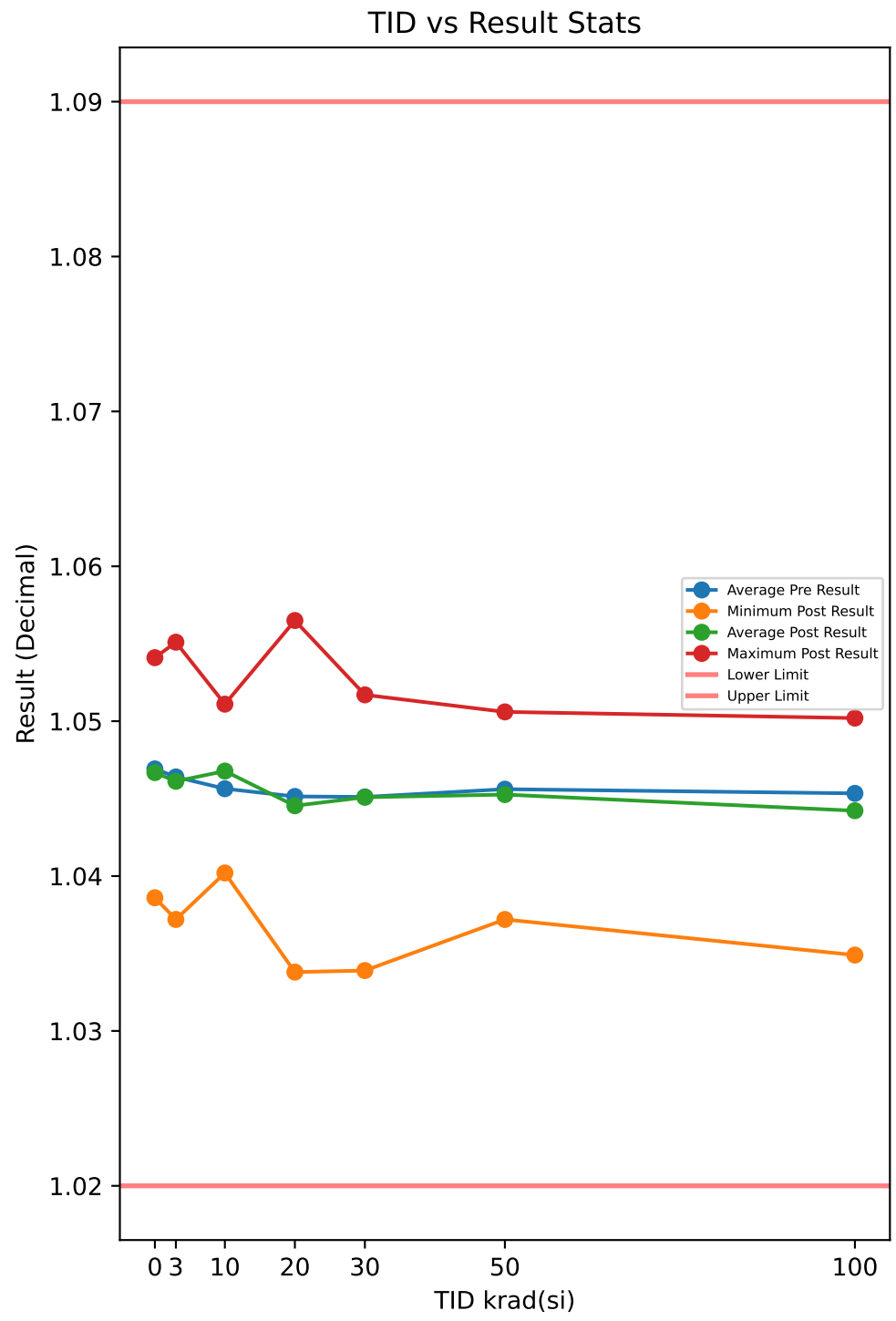
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0776	1.0754	-0.0022
51	3	Biased	1.0822	1.0836	0.0014
52	3	Biased	1.0853	1.0868	0.0015
53	3	Biased	1.0747	1.0737	-0.001
54	3	Biased	1.0781	1.0681	-0.01
55	3	Unbiased	1.0796	1.0751	-0.0045
56	3	Unbiased	1.0821	1.0806	-0.0015
57	3	Unbiased	1.0716	1.0733	0.0017
58	3	Unbiased	1.0775	1.0735	-0.004
59	3	Unbiased	1.0735	1.0839	0.0104
60	10	Biased	1.078	1.0823	0.0043
61	10	Biased	1.0769	1.076	-0.0009
62	10	Biased	1.0708	1.0759	0.0051
63	10	Biased	1.0699	1.0749	0.005
64	10	Biased	1.0736	1.0819	0.0083
65	10	Unbiased	1.0703	1.0763	0.006
66	10	Unbiased	1.0783	1.0823	0.004
67	10	Unbiased	1.0815	1.0822	0.0007
68	10	Unbiased	1.0786	1.0782	-0.0004
69	10	Unbiased	1.0791	1.0714	-0.0077
100	20	Biased	1.0781	1.0762	-0.0019
200	20	Biased	1.0775	1.0773	-0.0002
300	20	Biased	1.0726	1.0724	-0.0002
400	20	Biased	1.0899	1.0882	-0.0017
500	20	Biased	1.071	1.0698	-0.0012
600	20	Unbiased	1.0654	1.0651	-0.0003
700	20	Unbiased	1.0747	1.0756	0.0009
800	20	Unbiased	1.0809	1.0813	0.0004
900	20	Unbiased	1.0763	1.0768	0.0005
1000	20	Unbiased	1.076	1.0743	-0.0017
1100	30	Biased	1.0833	1.083	-0.0003
1200	30	Biased	1.0746	1.0748	0.0002
1300	30	Biased	1.0817	1.083	0.0013
1400	30	Biased	1.0833	1.0831	-0.0002
1500	30	Biased	1.0754	1.0757	0.0003
1600	30	Unbiased	1.0645	1.0646	0.0001
1700	30	Unbiased	1.0717	1.0719	0.0002
1800	30	Unbiased	1.0698	1.0708	0.001
1900	30	Unbiased	1.0817	1.08	-0.0017
2000	30	Unbiased	1.076	1.076	0
2100	50	Biased-84Hr-Anneal	1.0772	1.0807	0.0035
2200	50	Biased-84Hr-Anneal	1.0834	1.082	-0.0014
2300	50	Biased-84Hr-Anneal	1.0814	1.0807	-0.0007
2400	50	Biased-84Hr-Anneal	1.0763	1.0732	-0.0031
2500	50	Biased-84Hr-Anneal	1.0738	1.0744	0.0006
2600	50	Unbiased	1.0741	1.0718	-0.0023
2700	50	Unbiased	1.0819	1.0798	-0.0021
2800	50	Unbiased	1.0777	1.0784	0.0007
2900	50	Unbiased	1.0727	1.0694	-0.0033
3000	50	Unbiased	1.07	1.0683	-0.0017
4000	100	Biased-168Hr-Anneal	1.0773	1.0782	0.0009
4100	100	Biased-168Hr-Anneal	1.0686	1.0656	-0.003
4200	100	Biased-168Hr-Anneal	1.0765	1.0747	-0.0018
4300	100	Biased-168Hr-Anneal	1.0828	1.0813	-0.0015
4400	100	Biased-168Hr-Anneal	1.0783	1.0758	-0.0025
4500	100	Unbiased-168Hr-Anneal	1.0802	1.0799	-0.0003
4600	100	Unbiased-168Hr-Anneal	1.0739	1.0732	-0.0007
4700	100	Unbiased-168Hr-Anneal	1.0766	1.0755	-0.0011
4800	100	Unbiased-168Hr-Anneal	1.0726	1.0733	0.0007
4900	100	Unbiased-168Hr-Anneal	1.0791	1.0755	-0.0036
9300	0	CORRELATION	1.0781	1.078	-0.0001
9400	0	CORRELATION	1.0698	1.0699	0.0001
9500	0	CORRELATION	1.0771	1.0766	-0.0005
9600	0	CORRELATION	1.0862	1.0858	-0.0004
9700	0	CORRELATION	1.0796	1.0797	0.0001

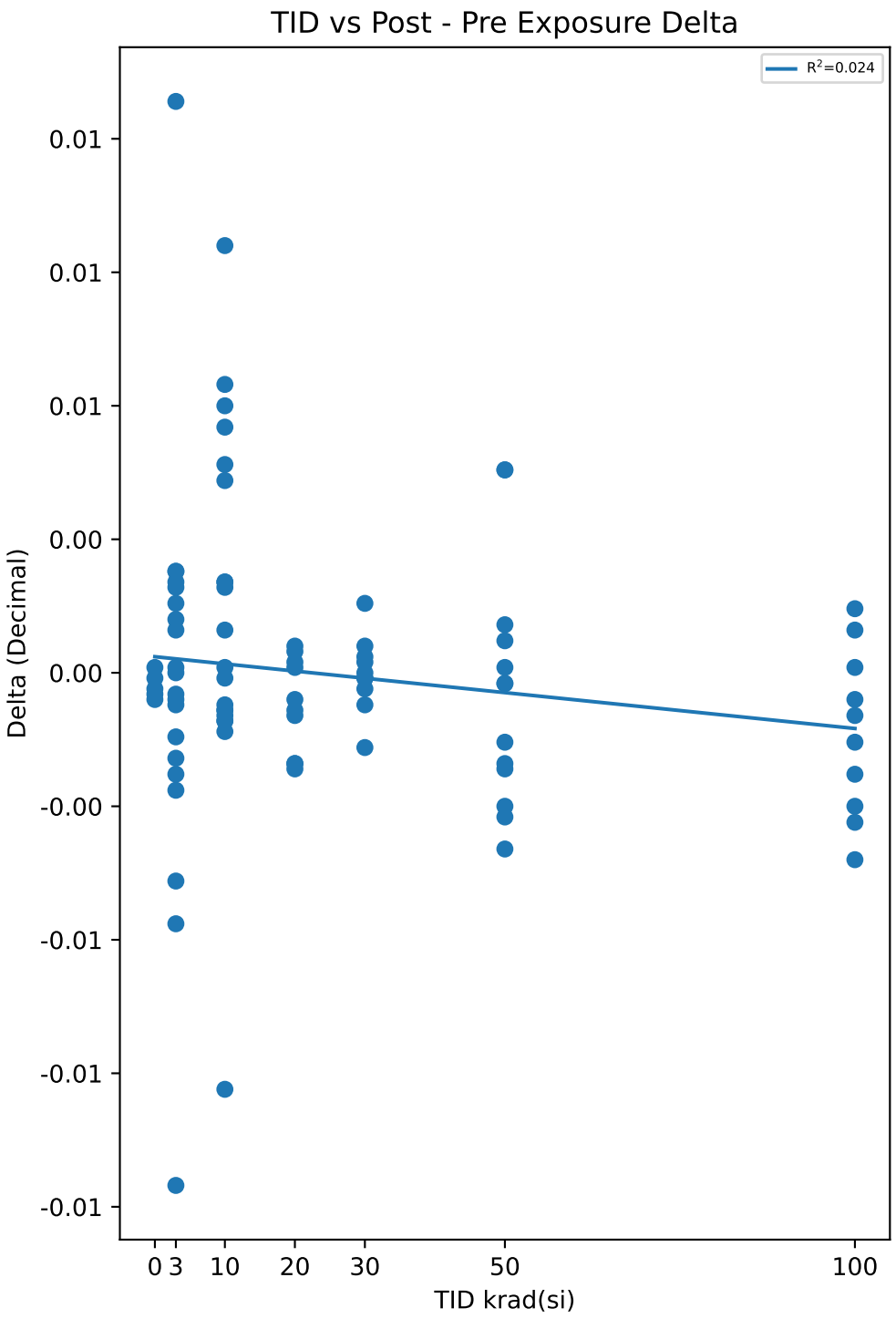


Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0698	1.0782	1.0862	0.005868	1.0699	1.078	1.0858	0.0057293	-0.0005	-0.00016	0.0001	0.00027928
3	1.0716	1.0782	1.0853	0.004247	1.0681	1.0774	1.0868	0.0059701	-0.01	-0.00082	0.0104	0.0053007
10	1.0699	1.0757	1.0815	0.0041942	1.0714	1.0781	1.0823	0.0038607	-0.0077	0.00244	0.0083	0.004614
20	1.0654	1.0762	1.0899	0.0064464	1.0651	1.0757	1.0882	0.0062509	-0.0019	-0.00054	0.0009	0.0010167
30	1.0645	1.0762	1.0833	0.0063479	1.0646	1.0763	1.0831	0.0061365	-0.0017	9e-05	0.0013	0.0008034
50	1.07	1.0768	1.0834	0.0043623	1.0683	1.0759	1.082	0.0050673	-0.0033	-0.00098	0.0035	0.0020826
100	1.0686	1.0766	1.0828	0.0040597	1.0656	1.0753	1.0813	0.0043303	-0.0036	-0.00129	0.0009	0.0014963

Device Test: 23.5 THRESHOLD|FALL/PWRGD/4.5////@VSENSE_VTH_FALLING_GOOD





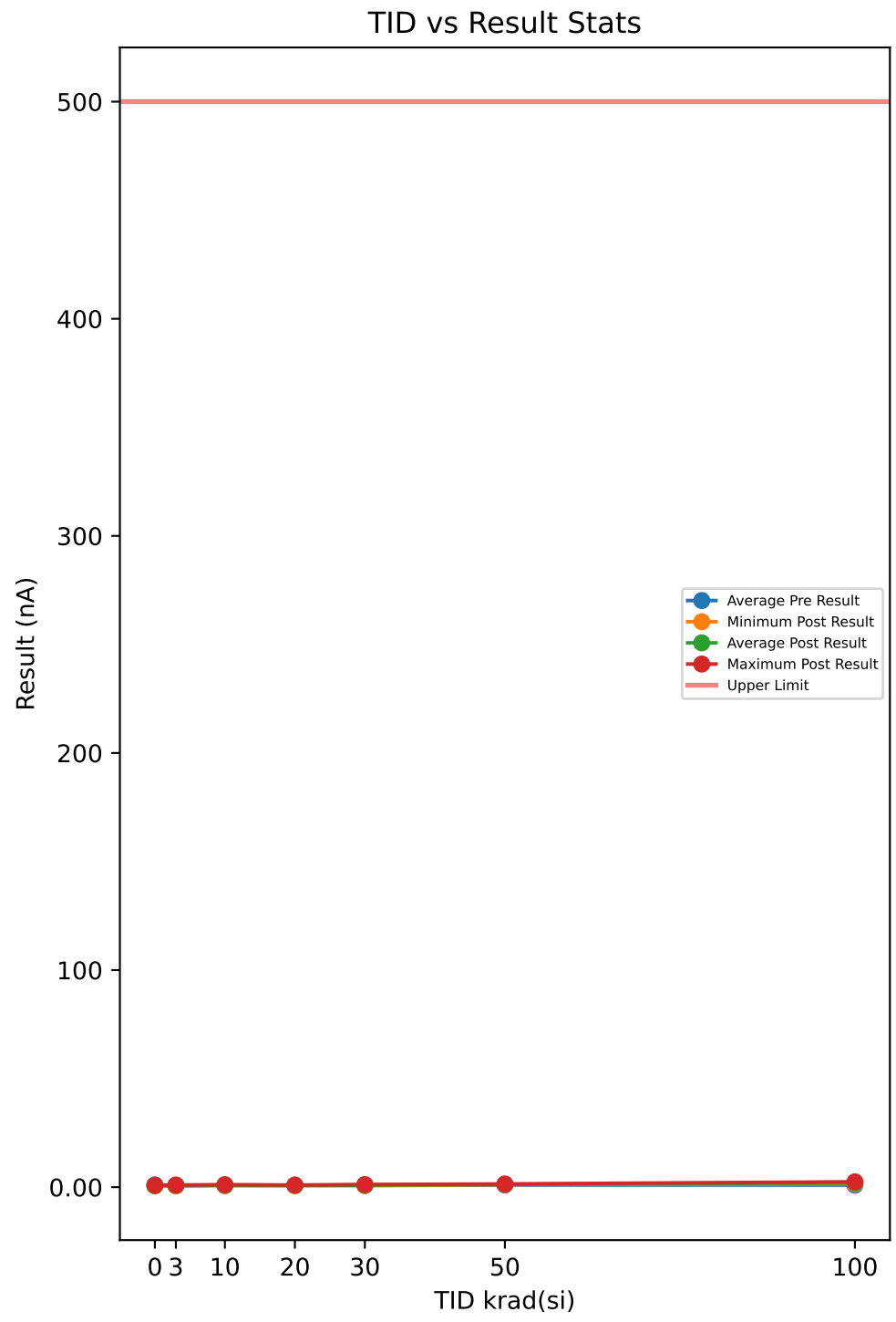
Test Results (Lower Limit = 1.02, Upper Limit = 1.09 (Decimal))

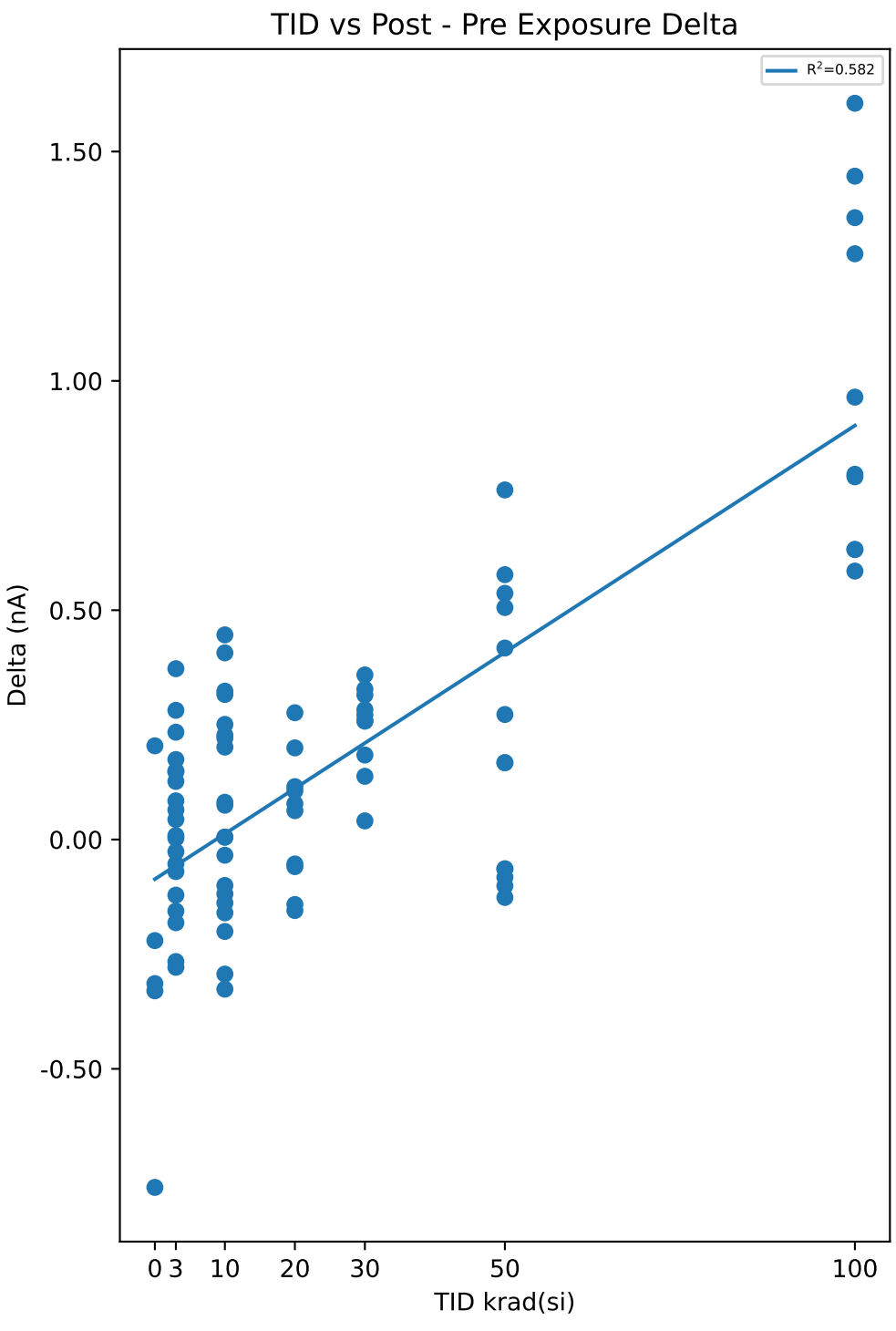
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.0465	1.0443	-0.0022
51	3	Biased	1.0507	1.0523	0.0016
52	3	Biased	1.0541	1.0551	0.001
53	3	Biased	1.0438	1.0422	-0.0016
54	3	Biased	1.0468	1.0372	-0.0096
55	3	Unbiased	1.0485	1.0438	-0.0047
56	3	Unbiased	1.0508	1.0489	-0.0019
57	3	Unbiased	1.0407	1.0424	0.0017
58	3	Unbiased	1.0463	1.0424	-0.0039
59	3	Unbiased	1.0419	1.0526	0.0107
60	10	Biased	1.047	1.0506	0.0036
61	10	Biased	1.0458	1.0449	-0.0009
62	10	Biased	1.0396	1.0446	0.005
63	10	Biased	1.0391	1.0437	0.0046
64	10	Biased	1.0427	1.0507	0.008
65	10	Unbiased	1.0392	1.0446	0.0054
66	10	Unbiased	1.0472	1.0511	0.0039
67	10	Unbiased	1.0504	1.0505	0.0001
68	10	Unbiased	1.0475	1.0469	-0.0006
69	10	Unbiased	1.048	1.0402	-0.0078
100	20	Biased	1.047	1.0453	-0.0017
200	20	Biased	1.0463	1.0458	-0.0005
300	20	Biased	1.0411	1.0413	0.0002
400	20	Biased	1.0582	1.0565	-0.0017
500	20	Biased	1.0399	1.0391	-0.0008
600	20	Unbiased	1.0345	1.0338	-0.0007
700	20	Unbiased	1.0441	1.0445	0.0004
800	20	Unbiased	1.0498	1.0503	0.0005
900	20	Unbiased	1.0456	1.0457	0.0001
1000	20	Unbiased	1.0449	1.0431	-0.0018
1100	30	Biased	1.0518	1.0517	-0.0001
1200	30	Biased	1.0433	1.0435	0.0002
1300	30	Biased	1.0504	1.0517	0.0013
1400	30	Biased	1.0522	1.0516	-0.0006
1500	30	Biased	1.0443	1.044	-0.0003
1600	30	Unbiased	1.0339	1.0339	0
1700	30	Unbiased	1.0409	1.0412	0.0003
1800	30	Unbiased	1.0392	1.0397	0.0005
1900	30	Unbiased	1.0502	1.0488	-0.0014
2000	30	Unbiased	1.0449	1.0448	-0.0001
2100	50	Biased-84Hr-Anneal	1.0456	1.0494	0.0038
2200	50	Biased-84Hr-Anneal	1.0519	1.0506	-0.0013
2300	50	Biased-84Hr-Anneal	1.0497	1.0498	0.0001
2400	50	Biased-84Hr-Anneal	1.045	1.0423	-0.0027
2500	50	Biased-84Hr-Anneal	1.0427	1.0433	0.0006
2600	50	Unbiased	1.0435	1.041	-0.0025
2700	50	Unbiased	1.0504	1.0486	-0.0018
2800	50	Unbiased	1.0466	1.0475	0.0009
2900	50	Unbiased	1.0418	1.0385	-0.0033
3000	50	Unbiased	1.0389	1.0372	-0.0017
4000	100	Biased-168Hr-Anneal	1.046	1.0468	0.0008
4100	100	Biased-168Hr-Anneal	1.0377	1.0349	-0.0028
4200	100	Biased-168Hr-Anneal	1.0454	1.0435	-0.0019
4300	100	Biased-168Hr-Anneal	1.0515	1.0502	-0.0013
4400	100	Biased-168Hr-Anneal	1.0468	1.0443	-0.0025
4500	100	Unbiased-168Hr-Anneal	1.0485	1.0486	0.0001
4600	100	Unbiased-168Hr-Anneal	1.0428	1.0423	-0.0005
4700	100	Unbiased-168Hr-Anneal	1.0453	1.0445	-0.0008
4800	100	Unbiased-168Hr-Anneal	1.0416	1.0428	0.0012
4900	100	Unbiased-168Hr-Anneal	1.0478	1.0443	-0.0035
9300	0	CORRELATION	1.0468	1.0467	-0.0001
9400	0	CORRELATION	1.0389	1.0386	-0.0003
9500	0	CORRELATION	1.0458	1.0454	-0.0004
9600	0	CORRELATION	1.0546	1.0541	-0.0005
9700	0	CORRELATION	1.0485	1.0486	0.0001

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0389	1.0469	1.0546	0.0056362	1.0386	1.0467	1.0541	0.0056051	-0.0005	-0.00024	0.0001	0.00024083
3	1.0407	1.047	1.0541	0.0041834	1.0372	1.0461	1.0551	0.0057721	-0.0096	-0.00089	0.0107	0.0053071
10	1.0391	1.0447	1.0504	0.0041575	1.0402	1.0468	1.0511	0.0037756	-0.0078	0.00213	0.008	0.0045233
20	1.0345	1.0451	1.0582	0.0062842	1.0338	1.0445	1.0565	0.0061214	-0.0018	-0.0006	0.0005	0.00089815
30	1.0339	1.0451	1.0522	0.0060664	1.0339	1.0451	1.0517	0.0059323	-0.0014	-2e-05	0.0013	0.00070679
50	1.0389	1.0456	1.0519	0.0041238	1.0372	1.0448	1.0506	0.0049656	-0.0033	-0.00079	0.0038	0.0021507
100	1.0377	1.0453	1.0515	0.0038782	1.0349	1.0442	1.0502	0.004147	-0.0035	-0.00112	0.0012	0.0015662

Device Test: 23.6 LEAK|MAX/PWRGD/4.5////@PWRGD_OUTPUT_HIGH_LEAK





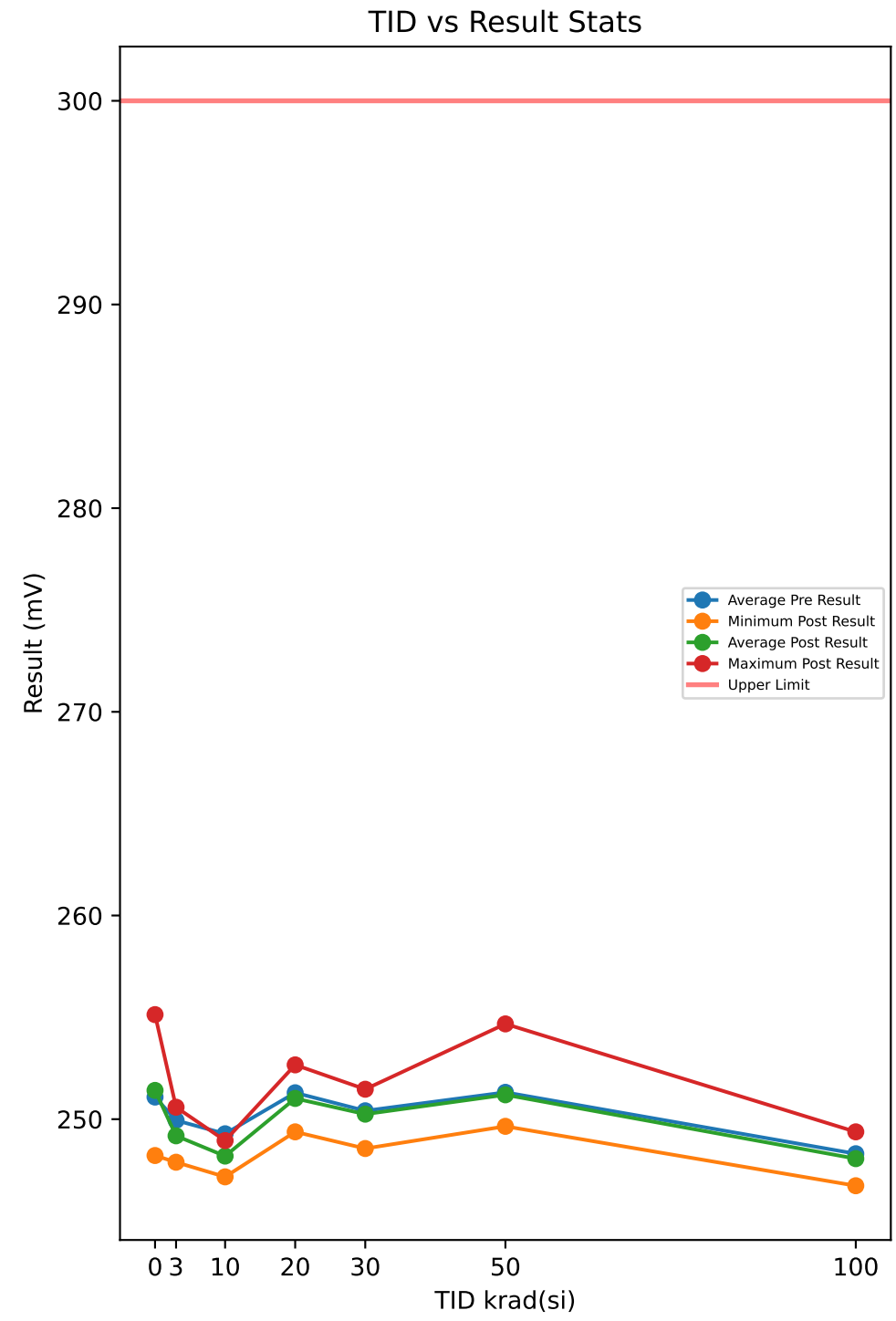
Test Results (Upper Limit = 500.0 (nA))

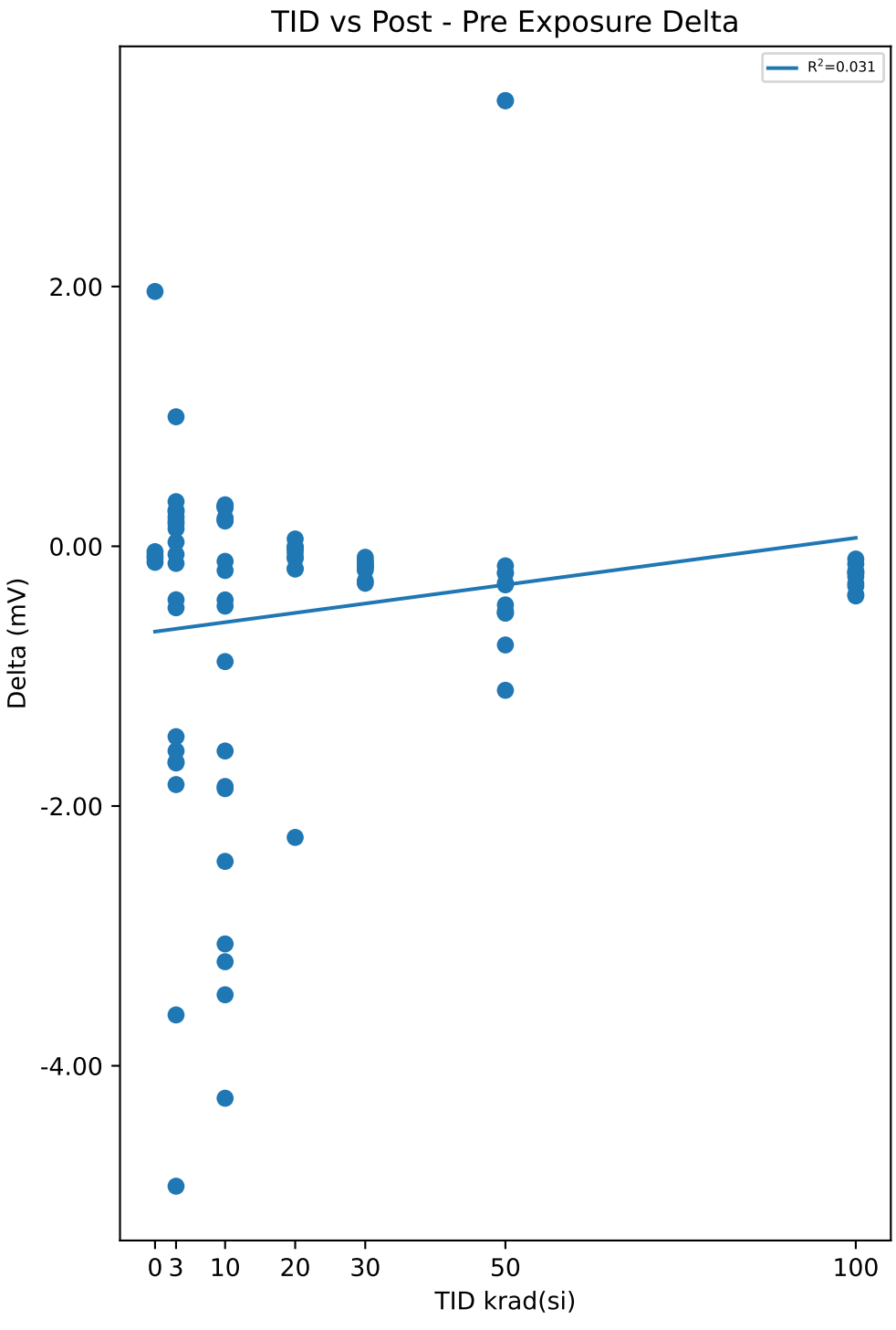
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.841	0.9058	0.0648
51	3	Biased	0.7221	0.6522	-0.0699
52	3	Biased	0.6347	0.6376	0.0029
53	3	Biased	0.7234	0.6969	-0.0265
54	3	Biased	0.8847	0.8933	0.0086
55	3	Unbiased	0.9407	0.7593	-0.1814
56	3	Unbiased	0.5973	0.724	0.1267
57	3	Unbiased	0.6985	0.5772	-0.1213
58	3	Unbiased	0.8253	0.9746	0.1493
59	3	Unbiased	0.7596	0.934	0.1744
60	10	Biased	0.7377	0.7428	0.0051
61	10	Biased	0.6145	0.8655	0.251
62	10	Biased	0.7004	1.1466	0.4462
63	10	Biased	0.7253	0.9529	0.2276
64	10	Biased	0.5754	0.8989	0.3235
65	10	Unbiased	0.7981	0.9996	0.2015
66	10	Unbiased	1.0502	0.724	-0.3262
67	10	Unbiased	0.7533	0.9746	0.2213
68	10	Unbiased	0.8127	0.7125	-0.1002
69	10	Unbiased	0.8727	0.7344	-0.1383
100	20	Biased	0.9958	0.8541	-0.1417
200	20	Biased	0.8378	0.683	-0.1548
300	20	Biased	0.7377	0.8158	0.0781
400	20	Biased	0.616	0.8158	0.1998
500	20	Biased	0.851	0.7919	-0.0591
600	20	Unbiased	0.8503	0.9656	0.1153
700	20	Unbiased	0.8127	0.9188	0.1061
800	20	Unbiased	0.8564	0.9194	0.063
900	20	Unbiased	0.6705	0.9469	0.2764
1000	20	Unbiased	0.841	0.7877	-0.0533
1100	30	Biased	0.822	0.9599	0.1379
1200	30	Biased	0.6659	0.9812	0.3153
1300	30	Biased	0.7763	1.0343	0.258
1400	30	Biased	0.7254	1.0532	0.3278
1500	30	Biased	0.7596	0.8002	0.0406
1600	30	Unbiased	0.8033	0.9875	0.1842
1700	30	Unbiased	0.6892	0.9723	0.2831
1800	30	Unbiased	0.841	1.1998	0.3588
1900	30	Unbiased	0.7128	0.9844	0.2716
2000	30	Unbiased	0.6878	0.9474	0.2596
2100	50	Biased-84Hr-Anneal	1.2945	1.462	0.1675
2200	50	Biased-84Hr-Anneal	1.41	1.309	-0.101
2300	50	Biased-84Hr-Anneal	1.357	1.2747	-0.0823
2400	50	Biased-84Hr-Anneal	1.3008	1.1745	-0.1263
2500	50	Biased-84Hr-Anneal	0.9303	1.2029	0.2726
2600	50	Unbiased	0.8659	1.2834	0.4175
2700	50	Unbiased	0.8938	1.3996	0.5058
2800	50	Unbiased	0.6566	1.2341	0.5775
2900	50	Unbiased	0.4683	1.2305	0.7622
3000	50	Unbiased	0.6879	1.2247	0.5368
4000	100	Biased-168Hr-Anneal	0.6651	2.1114	1.4463
4100	100	Biased-168Hr-Anneal	0.9216	1.554	0.6324
4200	100	Biased-168Hr-Anneal	1.4979	2.4624	0.9645
4300	100	Biased-168Hr-Anneal	0.8405	2.1176	1.2771
4400	100	Biased-168Hr-Anneal	0.506	2.1113	1.6053
4500	100	Unbiased-168Hr-Anneal	1.167	1.7992	0.6322
4600	100	Unbiased-168Hr-Anneal	0.9341	1.7305	0.7964
4700	100	Unbiased-168Hr-Anneal	1.4542	2.0395	0.5853
4800	100	Unbiased-168Hr-Anneal	0.5684	1.9242	1.3558
4900	100	Unbiased-168Hr-Anneal	0.9934	1.7842	0.7908
9300	0	CORRELATION	0.5834	0.7877	0.2043
9400	0	CORRELATION	0.8551	0.6347	-0.2204
9500	0	CORRELATION	1.5317	0.7732	-0.7585
9600	0	CORRELATION	0.9115	0.5816	-0.3299
9700	0	CORRELATION	1.1892	0.8751	-0.3141

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	0.5834	1.0142	1.5317	0.36051	0.5816	0.73046	0.8751	0.11974	-0.7585	-0.28372	0.2043	0.34302
3	0.5973	0.76273	0.9407	0.10938	0.5772	0.77549	0.9746	0.14073	-0.1814	0.01276	0.1744	0.11767
10	0.5754	0.76403	1.0502	0.13397	0.7125	0.87518	1.1466	0.14621	-0.3262	0.11115	0.4462	0.24041
20	0.616	0.80692	0.9958	0.10747	0.683	0.8499	0.9656	0.088069	-0.1548	0.04298	0.2764	0.14253
30	0.6659	0.74833	0.841	0.061182	0.8002	0.99202	1.1998	0.099502	0.0406	0.24369	0.3588	0.096735
50	0.4683	0.98651	1.41	0.33385	1.1745	1.2795	1.462	0.09006	-0.1263	0.29303	0.7622	0.31787
100	0.506	0.95482	1.4979	0.33995	1.554	1.9634	2.4624	0.25923	0.5853	1.0086	1.6053	0.37963

Device Test: 23.7 VOL|2mA/PWRGD/4.5////@PWRGD_OUTPUT_LOW





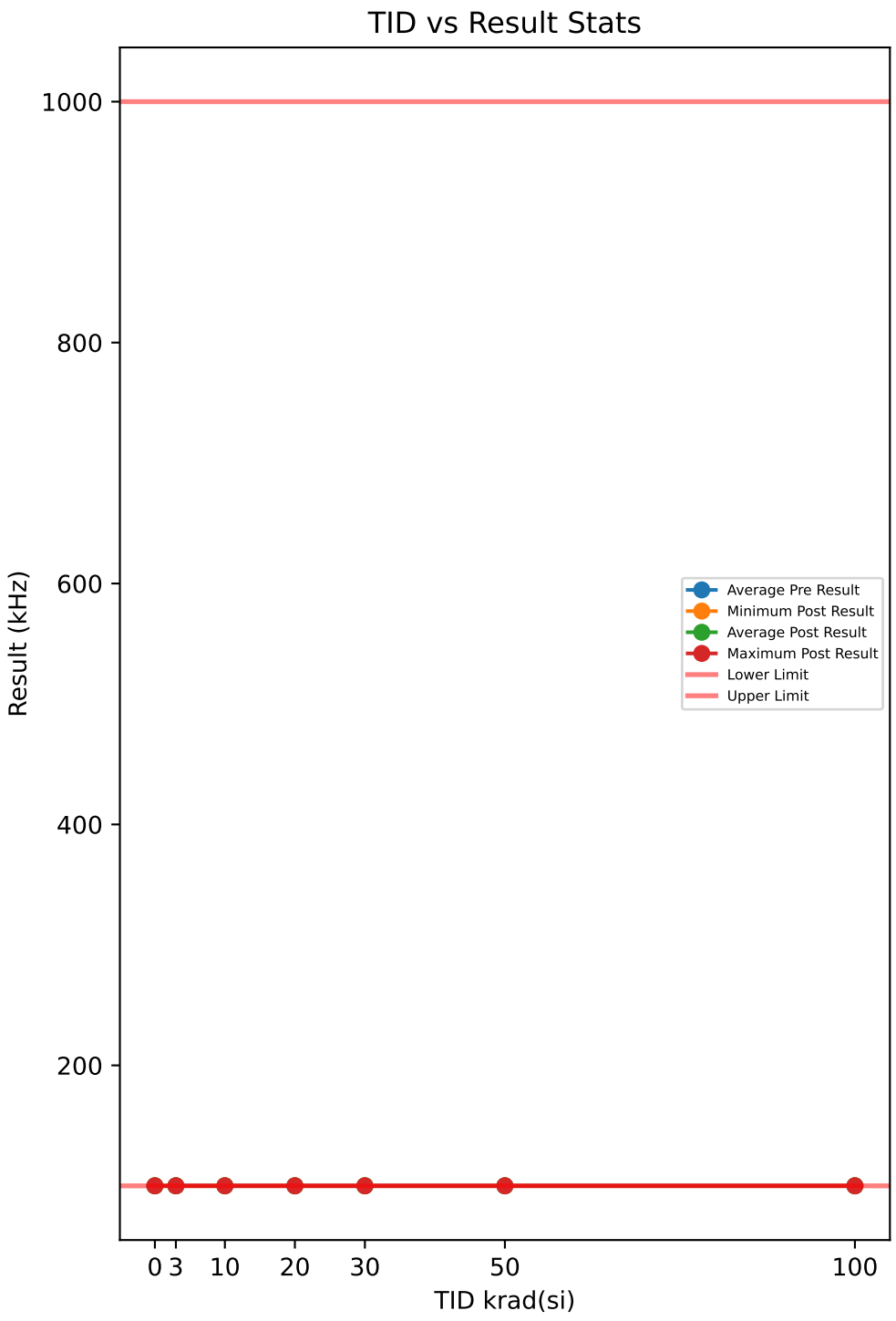
Test Results (Upper Limit = 300.0 (mV))

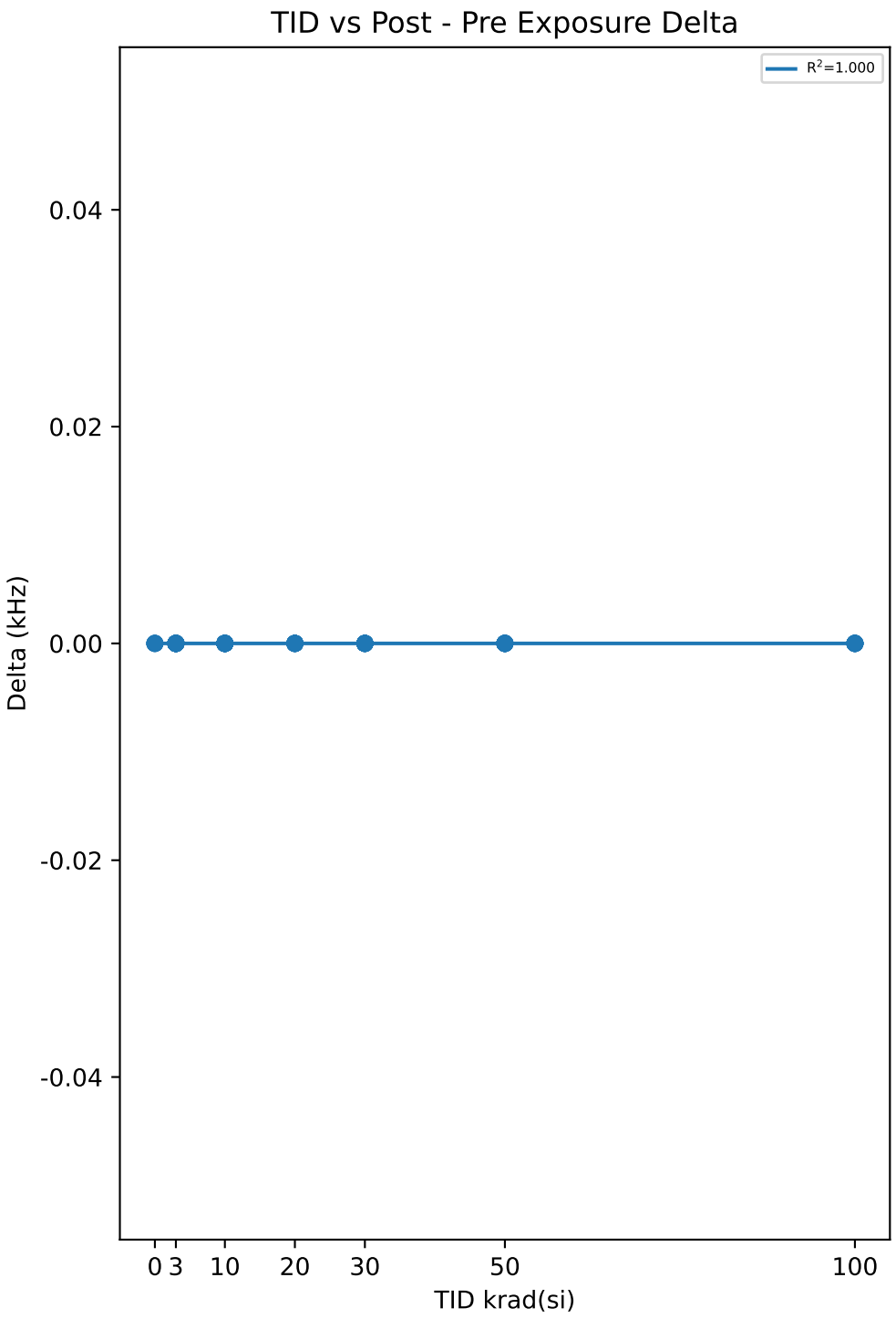
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	250.71	249.05	-1.66
51	3	Biased	254.06	249.13	-4.9273
52	3	Biased	251.5	247.89	-3.6086
53	3	Biased	250.63	249.17	-1.4659
54	3	Biased	249.48	250.47	0.997
55	3	Unbiased	250.11	248.28	-1.8349
56	3	Unbiased	250.31	250.59	0.2794
57	3	Unbiased	250.63	249.06	-1.5757
58	3	Unbiased	248.45	248.58	0.135
59	3	Unbiased	251.28	249.61	-1.6685
60	10	Biased	251.96	248.51	-3.4533
61	10	Biased	249.52	248.64	-0.8878
62	10	Biased	249.65	247.8	-1.8495
63	10	Biased	250.81	248.95	-1.8663
64	10	Biased	251.98	247.73	-4.2499
65	10	Unbiased	250.65	248.22	-2.4262
66	10	Unbiased	248.88	248.7	-0.1865
67	10	Unbiased	250.39	248.82	-1.5763
68	10	Unbiased	250.23	247.17	-3.0618
69	10	Unbiased	250.55	247.36	-3.1988
100	20	Biased	252.17	249.93	-2.2417
200	20	Biased	251.49	251.44	-0.0472
300	20	Biased	252.36	252.36	0
400	20	Biased	252.76	252.67	-0.0937
500	20	Biased	251.38	251.21	-0.1718
600	20	Unbiased	249.4	249.38	-0.0217
700	20	Unbiased	251.24	251.29	0.0561
800	20	Unbiased	251.48	251.3	-0.1753
900	20	Unbiased	249.62	249.53	-0.0834
1000	20	Unbiased	251.07	251.06	-0.0126
1100	30	Biased	251.55	251.4	-0.1504
1200	30	Biased	251.35	251.19	-0.1654
1300	30	Biased	248.74	248.56	-0.1838
1400	30	Biased	251.2	250.93	-0.2659
1500	30	Biased	250.05	249.94	-0.1093
1600	30	Unbiased	250.43	250.28	-0.1562
1700	30	Unbiased	250.32	250.2	-0.125
1800	30	Unbiased	251.6	251.47	-0.1311
1900	30	Unbiased	249.96	249.87	-0.0847
2000	30	Unbiased	248.92	248.63	-0.2847
2100	50	Biased-84Hr-Anneal	250.16	253.59	3.4312
2200	50	Biased-84Hr-Anneal	251.18	250.42	-0.7599
2300	50	Biased-84Hr-Anneal	251.51	251.35	-0.1508
2400	50	Biased-84Hr-Anneal	250.44	249.95	-0.4982
2500	50	Biased-84Hr-Anneal	252.31	251.86	-0.4514
2600	50	Unbiased	250.45	250.16	-0.2817
2700	50	Unbiased	250.5	250.3	-0.203
2800	50	Unbiased	250.82	250.53	-0.2967
2900	50	Unbiased	255.79	254.68	-1.1089
3000	50	Unbiased	250.02	249.81	-0.2091
4000	100	Biased-168Hr-Anneal	249.11	248.92	-0.1894
4100	100	Biased-168Hr-Anneal	247.26	247.06	-0.2028
4200	100	Biased-168Hr-Anneal	247.39	247.01	-0.3823
4300	100	Biased-168Hr-Anneal	246.87	246.73	-0.1366
4400	100	Biased-168Hr-Anneal	248.47	248.16	-0.3077
4500	100	Unbiased-168Hr-Anneal	248.92	248.72	-0.2066
4600	100	Unbiased-168Hr-Anneal	246.84	246.74	-0.0982
4700	100	Unbiased-168Hr-Anneal	249.75	249.38	-0.3716
4800	100	Unbiased-168Hr-Anneal	249.08	248.79	-0.2868
4900	100	Unbiased-168Hr-Anneal	249.35	249.12	-0.2339
9300	0	CORRELATION	250.04	252	1.962
9400	0	CORRELATION	255.21	255.13	-0.0714
9500	0	CORRELATION	250.4	250.3	-0.0922
9600	0	CORRELATION	251.53	251.41	-0.1236
9700	0	CORRELATION	248.26	248.22	-0.0413

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	248.26	251.09	255.21	2.5856	248.22	251.41	255.13	2.532	-0.1236	0.3267	1.962	0.91465
3	248.45	250.72	254.06	1.4664	247.89	249.18	250.59	0.86451	-4.9273	-1.5329	0.997	1.7773
10	248.88	250.46	251.98	0.98956	247.17	248.19	248.95	0.63525	-4.2499	-2.2756	-0.1865	1.243
20	249.4	251.3	252.76	1.0848	249.38	251.02	252.67	1.1042	-2.2417	-0.27913	0.0561	0.69347
30	248.74	250.41	251.6	1.0314	248.56	250.25	251.47	1.047	-0.2847	-0.16565	-0.0847	0.064506
50	250.02	251.32	255.79	1.7145	249.81	251.27	254.68	1.6561	-1.1089	-0.05285	3.4312	1.2596
100	246.84	248.3	249.75	1.1043	246.73	248.06	249.38	1.0638	-0.3823	-0.24159	-0.0982	0.094406

Device Test: 24.1 FREQ|100kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE





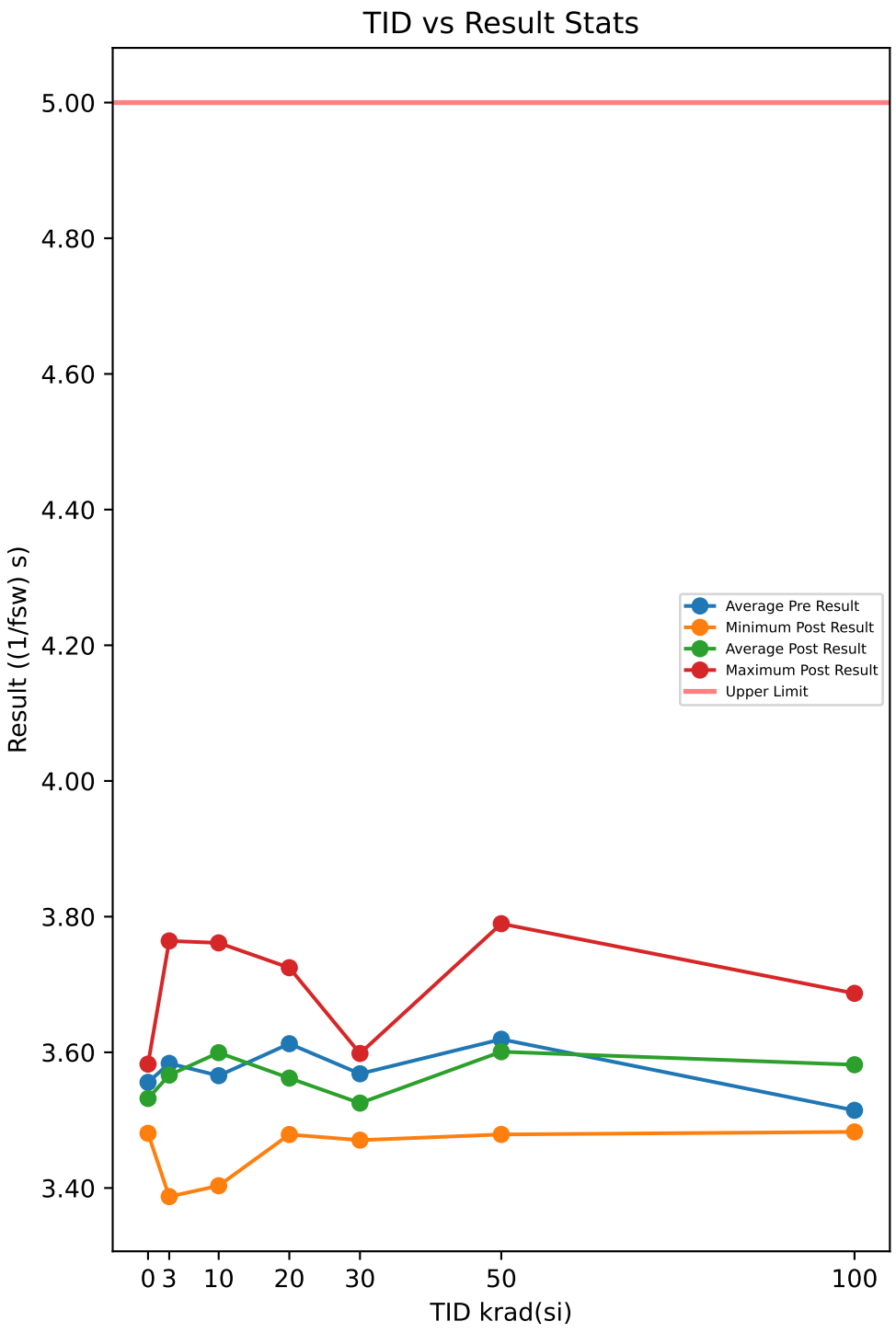
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

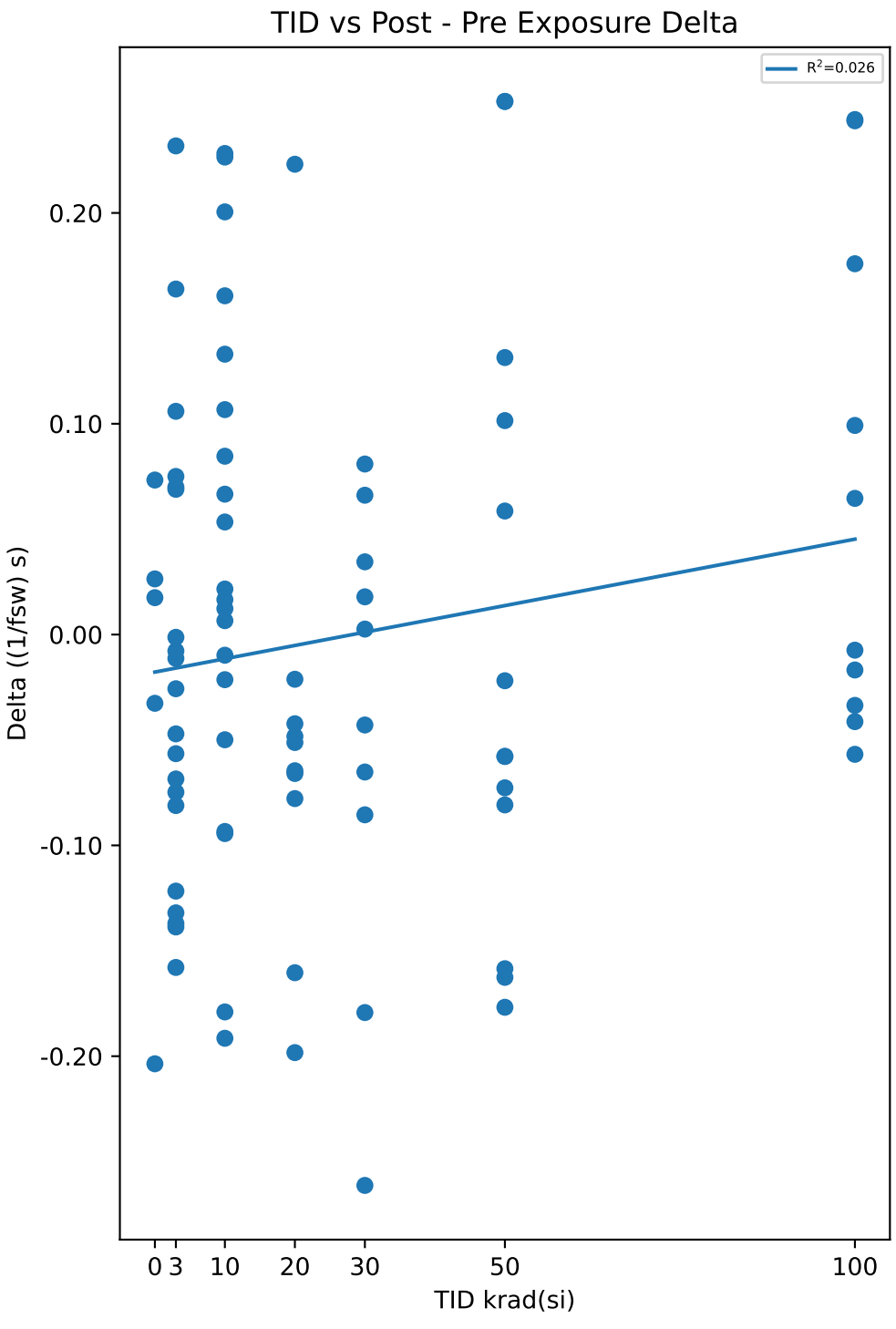
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	100	100	0
51	3	Biased	100	100	0
52	3	Biased	100	100	0
53	3	Biased	100	100	0
54	3	Biased	100	100	0
55	3	Unbiased	100	100	0
56	3	Unbiased	100	100	0
57	3	Unbiased	100	100	0
58	3	Unbiased	100	100	0
59	3	Unbiased	100	100	0
60	10	Biased	100	100	0
61	10	Biased	100	100	0
62	10	Biased	100	100	0
63	10	Biased	100	100	0
64	10	Biased	100	100	0
65	10	Unbiased	100	100	0
66	10	Unbiased	100	100	0
67	10	Unbiased	100	100	0
68	10	Unbiased	100	100	0
69	10	Unbiased	100	100	0
100	20	Biased	100	100	0
200	20	Biased	100	100	0
300	20	Biased	100	100	0
400	20	Biased	100	100	0
500	20	Biased	100	100	0
600	20	Unbiased	100	100	0
700	20	Unbiased	100	100	0
800	20	Unbiased	100	100	0
900	20	Unbiased	100	100	0
1000	20	Unbiased	100	100	0
1100	30	Biased	100	100	0
1200	30	Biased	100	100	0
1300	30	Biased	100	100	0
1400	30	Biased	100	100	0
1500	30	Biased	100	100	0
1600	30	Unbiased	100	100	0
1700	30	Unbiased	100	100	0
1800	30	Unbiased	100	100	0
1900	30	Unbiased	100	100	0
2000	30	Unbiased	100	100	0
2100	50	Biased-84Hr-Anneal	100	100	0
2200	50	Biased-84Hr-Anneal	100	100	0
2300	50	Biased-84Hr-Anneal	100	100	0
2400	50	Biased-84Hr-Anneal	100	100	0
2500	50	Biased-84Hr-Anneal	100	100	0
2600	50	Unbiased	100	100	0
2700	50	Unbiased	100	100	0
2800	50	Unbiased	100	100	0
2900	50	Unbiased	100	100	0
3000	50	Unbiased	100	100	0
4000	100	Biased-168Hr-Anneal	100	100	0
4100	100	Biased-168Hr-Anneal	100	100	0
4200	100	Biased-168Hr-Anneal	100	100	0
4300	100	Biased-168Hr-Anneal	100	100	0
4400	100	Biased-168Hr-Anneal	100	100	0
4500	100	Unbiased-168Hr-Anneal	100	100	0
4600	100	Unbiased-168Hr-Anneal	100	100	0
4700	100	Unbiased-168Hr-Anneal	100	100	0
4800	100	Unbiased-168Hr-Anneal	100	100	0
4900	100	Unbiased-168Hr-Anneal	100	100	0
9300	0	CORRELATION	100	100	0
9400	0	CORRELATION	100	100	0
9500	0	CORRELATION	100	100	0
9600	0	CORRELATION	100	100	0
9700	0	CORRELATION	100	100	0

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	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
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
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.10 TIMING|CLKDETECT/SYNC1/4.5//511k//@T_CLOCK_DET





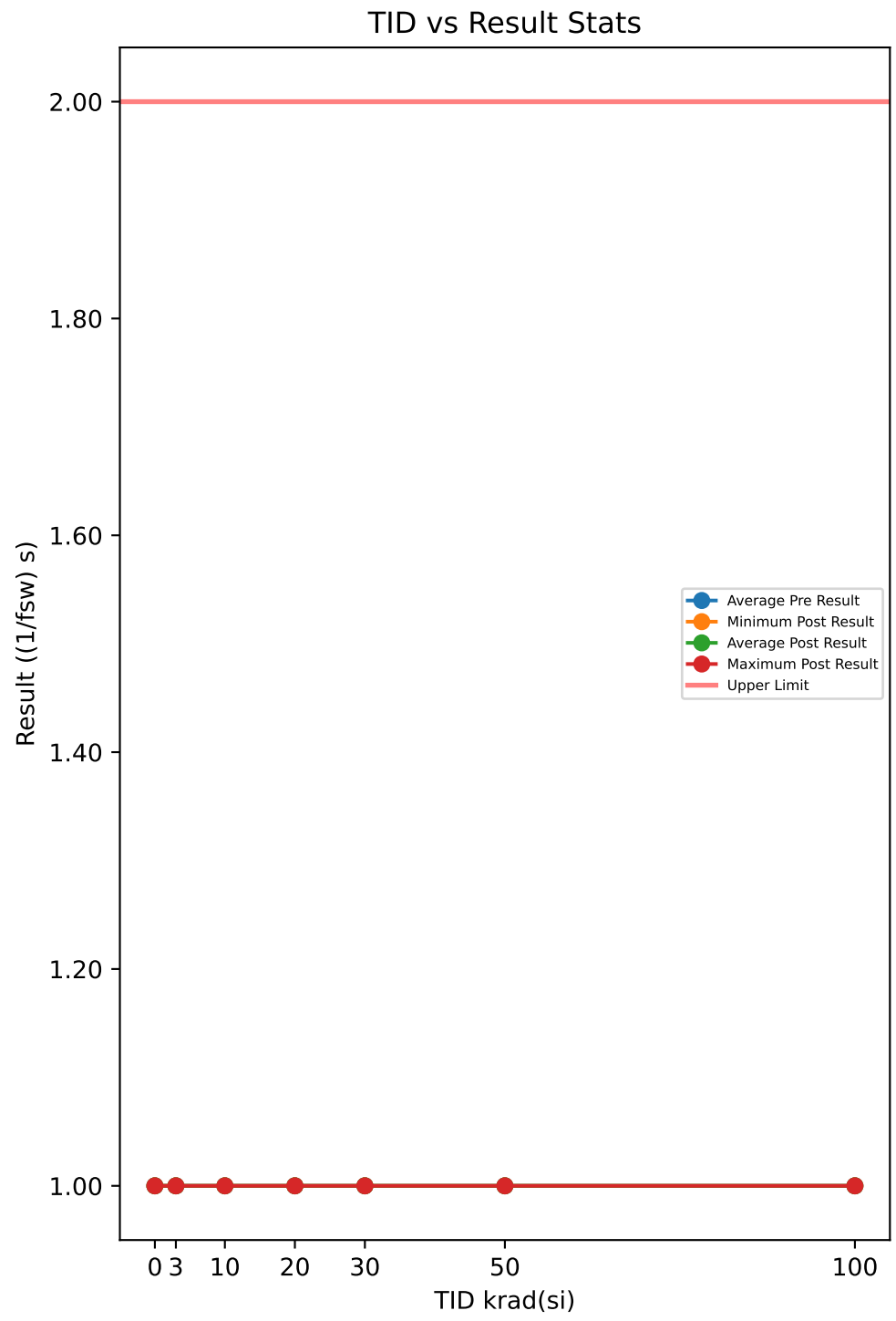
Test Results (Upper Limit = 5.0 ((1/fsw) s))

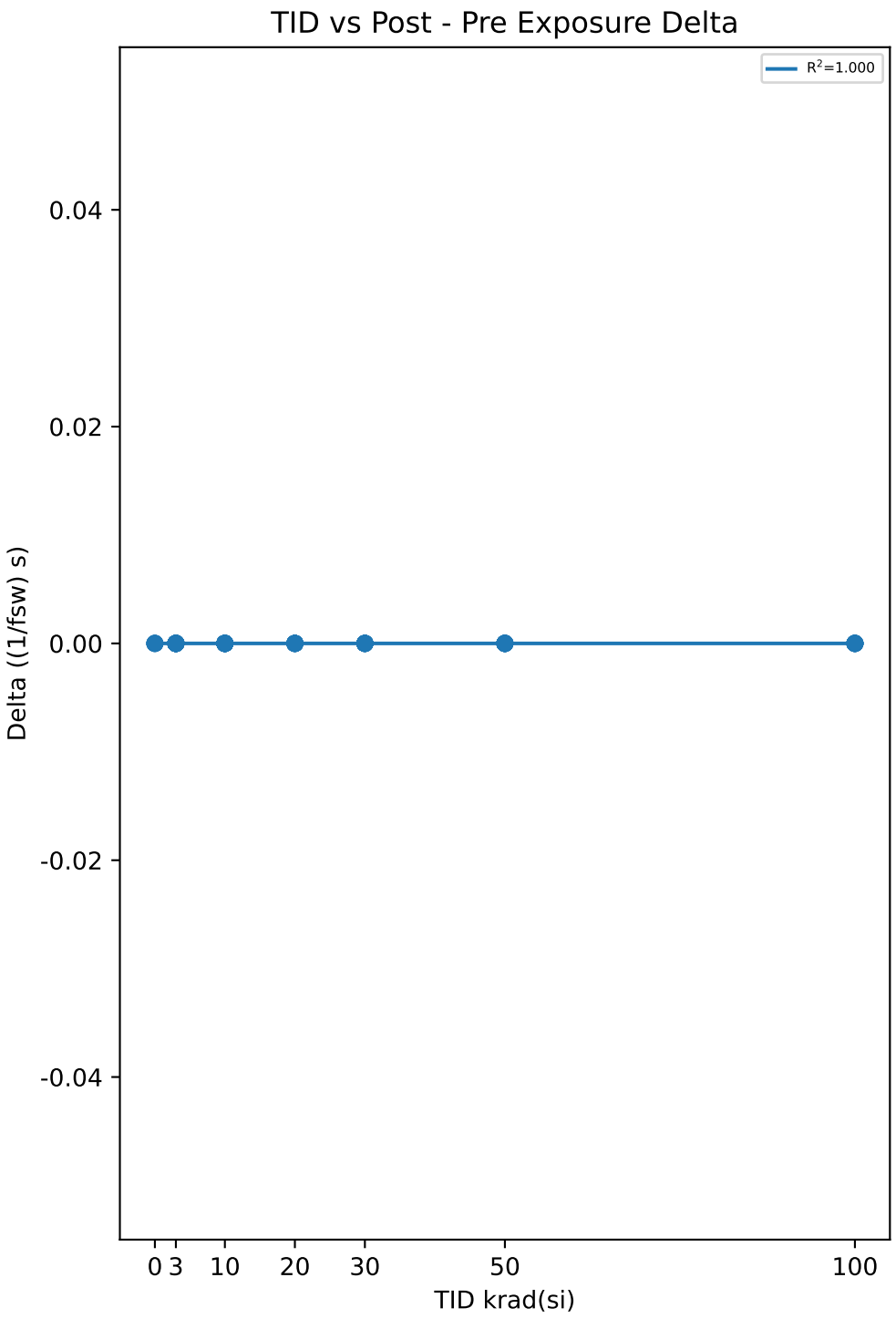
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.7086	3.5766	-0.132
51	3	Biased	3.5506	3.6565	0.1059
52	3	Biased	3.5369	3.4804	-0.0565
53	3	Biased	3.6575	3.6462	-0.0113
54	3	Biased	3.526	3.3873	-0.1387
55	3	Unbiased	3.535	3.5337	-0.0013
56	3	Unbiased	3.5405	3.4657	-0.0748
57	3	Unbiased	3.6352	3.6274	-0.0078
58	3	Unbiased	3.5517	3.526	-0.0257
59	3	Unbiased	3.6003	3.7642	0.1639
60	10	Biased	3.6115	3.4325	-0.179
61	10	Biased	3.5789	3.5691	-0.0098
62	10	Biased	3.4977	3.4033	-0.0944
63	10	Biased	3.5487	3.5653	0.0166
64	10	Biased	3.5116	3.7121	0.2005
65	10	Unbiased	3.5331	3.7613	0.2282
66	10	Unbiased	3.5163	3.5229	0.0066
67	10	Unbiased	3.7252	3.7038	-0.0214
68	10	Unbiased	3.4669	3.5999	0.133
69	10	Unbiased	3.6397	3.7243	0.0846
100	20	Biased	3.6173	3.575	-0.0423
200	20	Biased	3.562	3.4974	-0.0646
300	20	Biased	3.633	3.5818	-0.0512
400	20	Biased	3.6771	3.4788	-0.1983
500	20	Biased	3.5837	3.5354	-0.0483
600	20	Unbiased	3.5909	3.5131	-0.0778
700	20	Unbiased	3.6303	3.5644	-0.0659
800	20	Unbiased	3.5016	3.7247	0.2231
900	20	Unbiased	3.6155	3.5943	-0.0212
1000	20	Unbiased	3.7153	3.5549	-0.1604
1100	30	Biased	3.5731	3.5079	-0.0652
1200	30	Biased	3.7477	3.4864	-0.2613
1300	30	Biased	3.4872	3.4898	0.0026
1400	30	Biased	3.4697	3.5358	0.0661
1500	30	Biased	3.436	3.4705	0.0345
1600	30	Unbiased	3.6887	3.5094	-0.1793
1700	30	Unbiased	3.496	3.5769	0.0809
1800	30	Unbiased	3.5804	3.5983	0.0179
1900	30	Unbiased	3.6075	3.522	-0.0855
2000	30	Unbiased	3.5973	3.5544	-0.0429
2100	50	Biased-84Hr-Anneal	3.5367	3.4789	-0.0578
2200	50	Biased-84Hr-Anneal	3.6035	3.5816	-0.0219
2300	50	Biased-84Hr-Anneal	3.7071	3.6344	-0.0727
2400	50	Biased-84Hr-Anneal	3.4776	3.5791	0.1015
2500	50	Biased-84Hr-Anneal	3.5866	3.5058	-0.0808
2600	50	Unbiased	3.5486	3.6072	0.0586
2700	50	Unbiased	3.6981	3.5213	-0.1768
2800	50	Unbiased	3.7891	3.6265	-0.1626
2900	50	Unbiased	3.5253	3.6567	0.1314
3000	50	Unbiased	3.7201	3.5616	-0.1585
4000	100	Biased-168Hr-Anneal	3.6943	3.6869	-0.0074
4100	100	Biased-168Hr-Anneal	3.5176	3.5008	-0.0168
4200	100	Biased-168Hr-Anneal	3.5842	3.5274	-0.0568
4300	100	Biased-168Hr-Anneal	3.4404	3.6847	0.2443
4400	100	Biased-168Hr-Anneal	3.4847	3.6606	0.1759
4500	100	Unbiased-168Hr-Anneal	3.4807	3.5799	0.0992
4600	100	Unbiased-168Hr-Anneal	3.4223	3.4869	0.0646
4700	100	Unbiased-168Hr-Anneal	3.6116	3.578	-0.0336
4800	100	Unbiased-168Hr-Anneal	3.3851	3.6288	0.2437
4900	100	Unbiased-168Hr-Anneal	3.524	3.4827	-0.0413
9300	0	CORRELATION	3.5562	3.5826	0.0264
9400	0	CORRELATION	3.49	3.5075	0.0175
9500	0	CORRELATION	3.5614	3.5288	-0.0326
9600	0	CORRELATION	3.4869	3.5602	0.0733
9700	0	CORRELATION	3.6842	3.4806	-0.2036

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	3.4869	3.5557	3.6842	0.079992	3.4806	3.5319	3.5826	0.040645	-0.2036	-0.0238	0.0733	0.10731
3	3.526	3.5842	3.7086	0.063112	3.3873	3.5664	3.7642	0.11043	-0.1387	-0.01783	0.1639	0.094985
10	3.4669	3.563	3.7252	0.077615	3.4033	3.5995	3.7613	0.12457	-0.179	0.03649	0.2282	0.12721
20	3.5016	3.6127	3.7153	0.059306	3.4788	3.562	3.7247	0.068578	-0.1983	-0.05069	0.2231	0.111
30	3.436	3.5684	3.7477	0.099027	3.4705	3.5251	3.5983	0.041219	-0.2613	-0.04322	0.0809	0.10933
50	3.4776	3.6193	3.7891	0.10272	3.4789	3.5753	3.6567	0.058726	-0.1768	-0.04396	0.1314	0.11062
100	3.3851	3.5145	3.6943	0.093975	3.4827	3.5817	3.6869	0.080566	-0.0568	0.06718	0.2443	0.11799

Device Test: 24.100 TIMING|CLKDETECT/SYNC1/12//511k//@T_CLOCK_DET_EXT





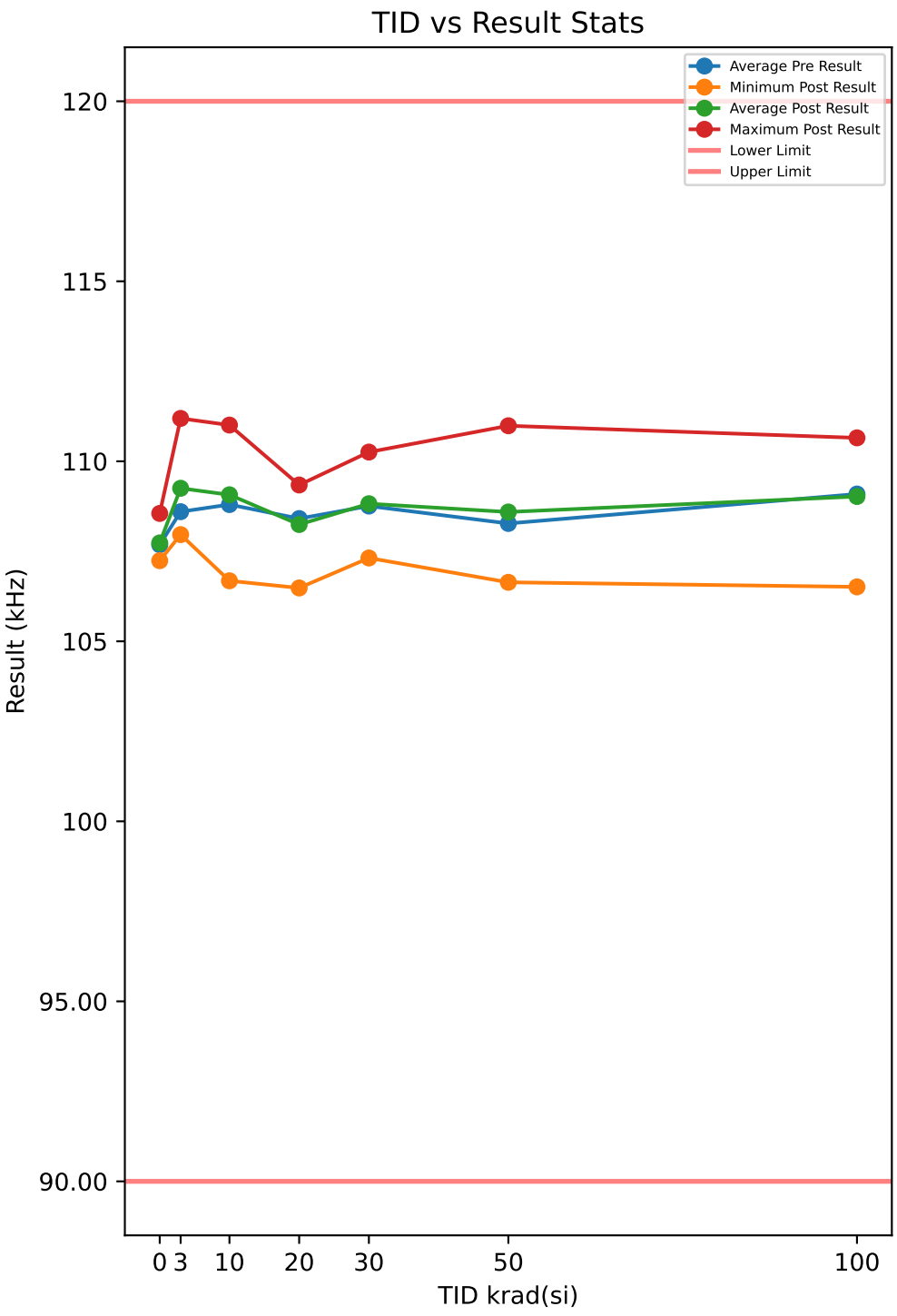
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1	1	0
51	3	Biased	1	1	0
52	3	Biased	1	1	0
53	3	Biased	1	1	0
54	3	Biased	1	1	0
55	3	Unbiased	1	1	0
56	3	Unbiased	1	1	0
57	3	Unbiased	1	1	0
58	3	Unbiased	1	1	0
59	3	Unbiased	1	1	0
60	10	Biased	1	1	0
61	10	Biased	1	1	0
62	10	Biased	1	1	0
63	10	Biased	1	1	0
64	10	Biased	1	1	0
65	10	Unbiased	1	1	0
66	10	Unbiased	1	1	0
67	10	Unbiased	1	1	0
68	10	Unbiased	1	1	0
69	10	Unbiased	1	1	0
100	20	Biased	1	1	0
200	20	Biased	1	1	0
300	20	Biased	1	1	0
400	20	Biased	1	1	0
500	20	Biased	1	1	0
600	20	Unbiased	1	1	0
700	20	Unbiased	1	1	0
800	20	Unbiased	1	1	0
900	20	Unbiased	1	1	0
1000	20	Unbiased	1	1	0
1100	30	Biased	1	1	0
1200	30	Biased	1	1	0
1300	30	Biased	1	1	0
1400	30	Biased	1	1	0
1500	30	Biased	1	1	0
1600	30	Unbiased	1	1	0
1700	30	Unbiased	1	1	0
1800	30	Unbiased	1	1	0
1900	30	Unbiased	1	1	0
2000	30	Unbiased	1	1	0
2100	50	Biased-84Hr-Anneal	1	1	0
2200	50	Biased-84Hr-Anneal	1	1	0
2300	50	Biased-84Hr-Anneal	1	1	0
2400	50	Biased-84Hr-Anneal	1	1	0
2500	50	Biased-84Hr-Anneal	1	1	0
2600	50	Unbiased	1	1	0
2700	50	Unbiased	1	1	0
2800	50	Unbiased	1	1	0
2900	50	Unbiased	1	1	0
3000	50	Unbiased	1	1	0
4000	100	Biased-168Hr-Anneal	1	1	0
4100	100	Biased-168Hr-Anneal	1	1	0
4200	100	Biased-168Hr-Anneal	1	1	0
4300	100	Biased-168Hr-Anneal	1	1	0
4400	100	Biased-168Hr-Anneal	1	1	0
4500	100	Unbiased-168Hr-Anneal	1	1	0
4600	100	Unbiased-168Hr-Anneal	1	1	0
4700	100	Unbiased-168Hr-Anneal	1	1	0
4800	100	Unbiased-168Hr-Anneal	1	1	0
4900	100	Unbiased-168Hr-Anneal	1	1	0
9300	0	CORRELATION	1	1	0
9400	0	CORRELATION	1	1	0
9500	0	CORRELATION	1	1	0
9600	0	CORRELATION	1	1	0
9700	0	CORRELATION	1	1	0

Test Statistics ((1/fsw) s)

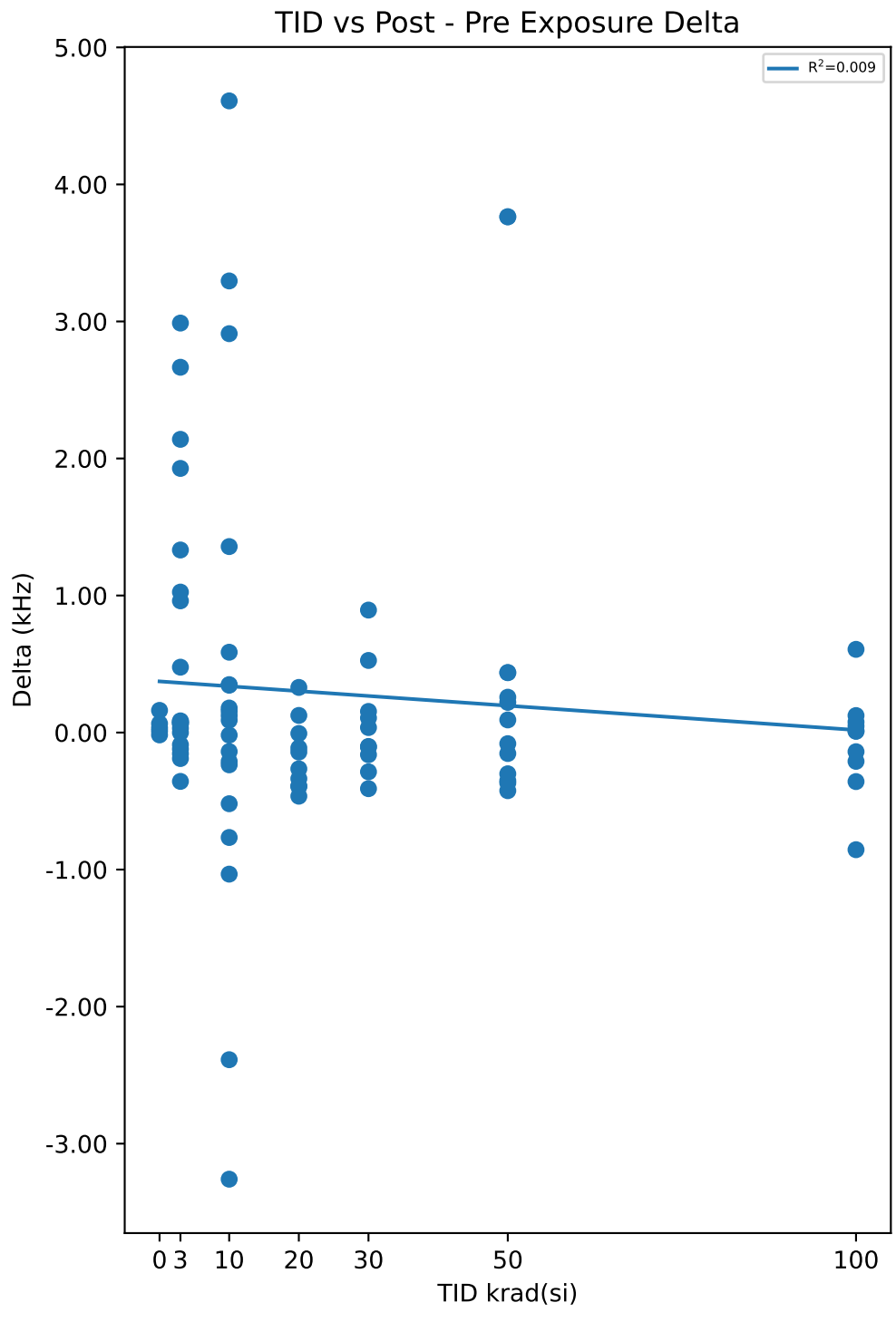
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1	1	1	0	1	1	1	0	0	0	0	0
3	1	1	1	0	1	1	1	0	0	0	0	0
10	1	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0
100	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.101 FREQ|100kHz/SYNC1/12//511k//@EXT_SET_FREQ_100kHz



Test Results (Lower Limit = 90.0, Upper Limit = 120.0 (kHz))

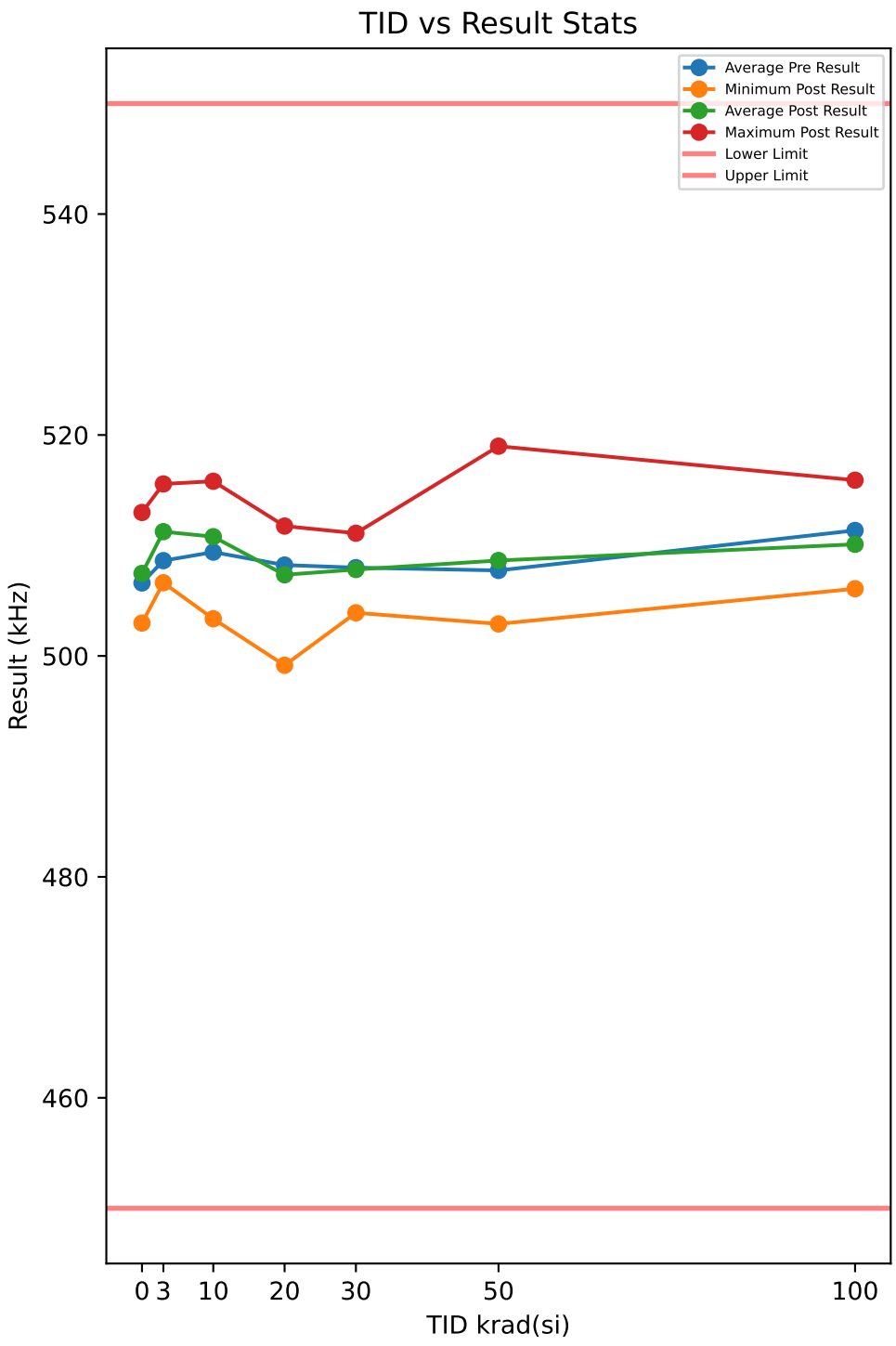
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	108.43	108.43	-0.0005
51	3	Biased	107.82	108.78	0.9612
52	3	Biased	106.1	109.09	2.9882
53	3	Biased	109.1	108.74	-0.3565
54	3	Biased	108.45	108.92	0.477
55	3	Unbiased	107.32	109.25	1.9275
56	3	Unbiased	106.63	107.96	1.3322
57	3	Unbiased	108.61	109.63	1.025
58	3	Unbiased	109.05	111.19	2.1397
59	3	Unbiased	107.85	110.52	2.6657
60	10	Biased	108.1	111.01	2.9108
61	10	Biased	106.32	110.93	4.6096
62	10	Biased	107.21	110.51	3.2956
63	10	Biased	110.1	109.07	-1.0332
64	10	Biased	109.94	106.68	-3.2593
65	10	Unbiased	109.38	108.86	-0.5194
66	10	Unbiased	107.59	106.82	-0.7657
67	10	Unbiased	109	109.58	0.5862
68	10	Unbiased	109.85	107.46	-2.3874
69	10	Unbiased	108.43	109.78	1.3572
100	20	Biased	107.23	107.22	-0.0068
200	20	Biased	107.02	106.62	-0.3945
300	20	Biased	109.32	109.05	-0.2649
400	20	Biased	109.06	108.95	-0.1122
500	20	Biased	108.56	108.68	0.1249
600	20	Unbiased	106.82	106.48	-0.3363
700	20	Unbiased	109.07	108.68	-0.3895
800	20	Unbiased	108.8	109.12	0.3293
900	20	Unbiased	109.48	109.34	-0.1423
1000	20	Unbiased	108.75	108.28	-0.4644
1100	30	Biased	108.53	108.56	0.0365
1200	30	Biased	108.12	108.27	0.1541
1300	30	Biased	106.79	107.31	0.5261
1400	30	Biased	108.14	107.85	-0.2865
1500	30	Biased	109.66	109.55	-0.1014
1600	30	Unbiased	108.78	108.88	0.1066
1700	30	Unbiased	109.71	109.3	-0.4095
1800	30	Unbiased	110.36	110.26	-0.1062
1900	30	Unbiased	109.48	109.32	-0.1616
2000	30	Unbiased	108.01	108.91	0.8937
2100	50	Biased-84Hr-Anneal	107.22	110.99	3.7638
2200	50	Biased-84Hr-Anneal	108.91	108.83	-0.0811
2300	50	Biased-84Hr-Anneal	108.47	108.05	-0.4243
2400	50	Biased-84Hr-Anneal	108.82	108.52	-0.3009
2500	50	Biased-84Hr-Anneal	109.65	109.75	0.0922
2600	50	Unbiased	108.71	108.56	-0.153
2700	50	Unbiased	107.21	107.47	0.2579
2800	50	Unbiased	106.42	106.64	0.2202
2900	50	Unbiased	108.11	107.76	-0.3513
3000	50	Unbiased	109.2	108.83	-0.3682
4000	100	Biased-168Hr-Anneal	107.37	106.51	-0.8549
4100	100	Biased-168Hr-Anneal	109.17	109.29	0.124
4200	100	Biased-168Hr-Anneal	109.38	109.38	0.0091
4300	100	Biased-168Hr-Anneal	108.25	108.3	0.0472
4400	100	Biased-168Hr-Anneal	107.63	108.24	0.6071
4500	100	Unbiased-168Hr-Anneal	109.25	109.33	0.0769
4600	100	Unbiased-168Hr-Anneal	109.66	109.45	-0.2101
4700	100	Unbiased-168Hr-Anneal	111.01	110.65	-0.3578
4800	100	Unbiased-168Hr-Anneal	108.95	108.81	-0.1398
4900	100	Unbiased-168Hr-Anneal	110.24	110.25	0.0112
9300	0	CORRELATION	107.08	107.24	0.1617
9400	0	CORRELATION	108.11	108.12	0.0112
9500	0	CORRELATION	108.57	108.55	-0.0172
9600	0	CORRELATION	107.42	107.48	0.0657
9700	0	CORRELATION	107.24	107.27	0.0342

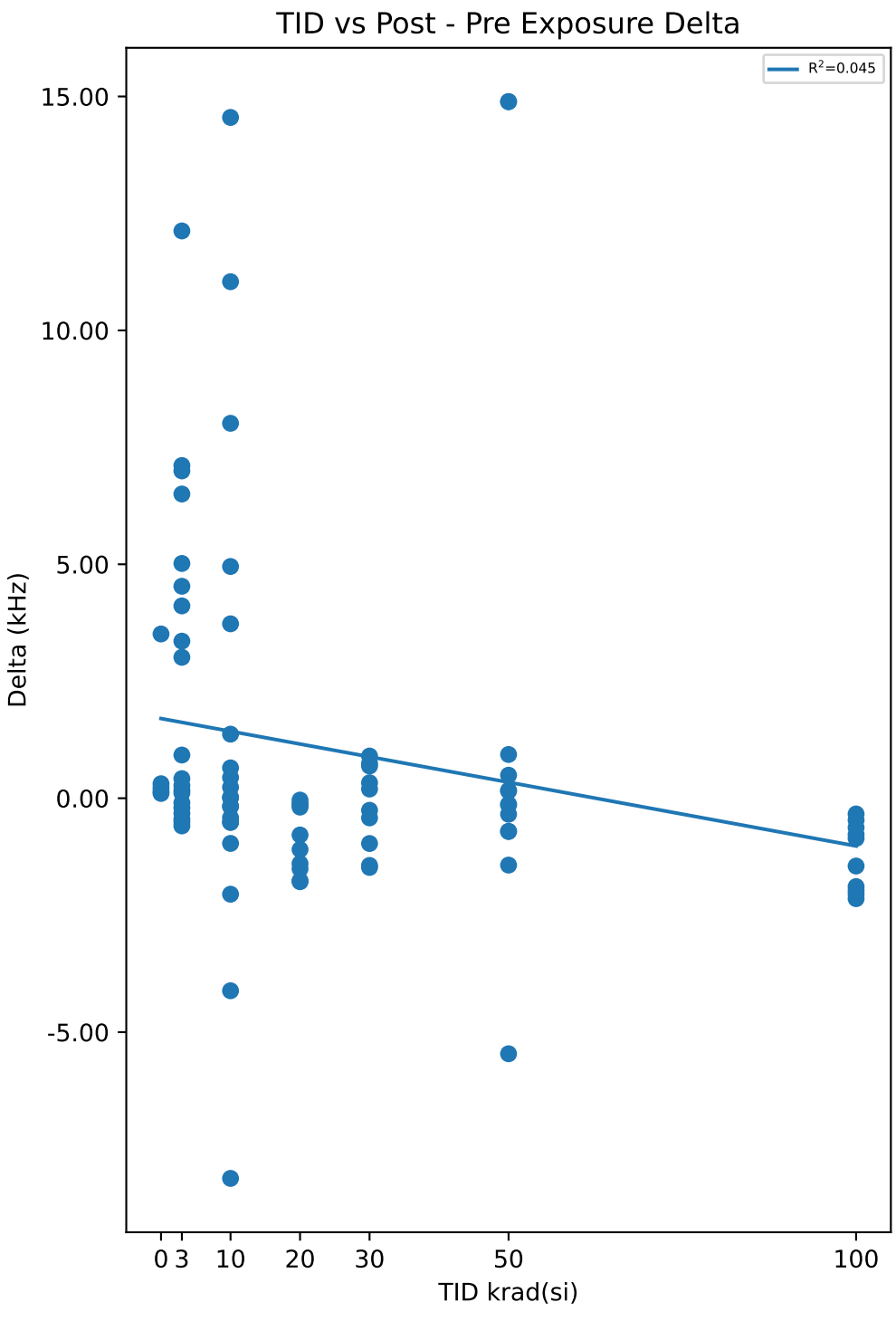


Test Statistics (kHz)

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	107.08	107.68	108.57	0.63376	107.24	107.73	108.55	0.57961	-0.0172	0.05112	0.1617	0.068899
3	106.1	107.93	109.1	1.0013	107.96	109.25	111.19	0.97028	-0.3565	1.3159	2.9882	1.1113
10	106.32	108.59	110.1	1.283	106.68	109.07	111.01	1.6131	-3.2593	0.47944	4.6096	2.5542
20	106.82	108.41	109.48	0.99923	106.48	108.24	109.34	1.0693	-0.4644	-0.16567	0.3293	0.25576
30	106.79	108.76	110.36	1.059	107.31	108.82	110.26	0.86063	-0.4095	0.06518	0.8937	0.38971
50	106.42	108.27	109.65	1.0228	106.64	108.54	110.99	1.2128	-0.4243	0.26553	3.7638	1.2536
100	107.37	109.09	111.01	1.1183	106.51	109.02	110.65	1.1605	-0.8549	-0.06871	0.6071	0.3753

Device Test: 24.108 FREQ|500kHz/SYNC1/12//90.9k//@EXT_SET_FREQ_500kHz





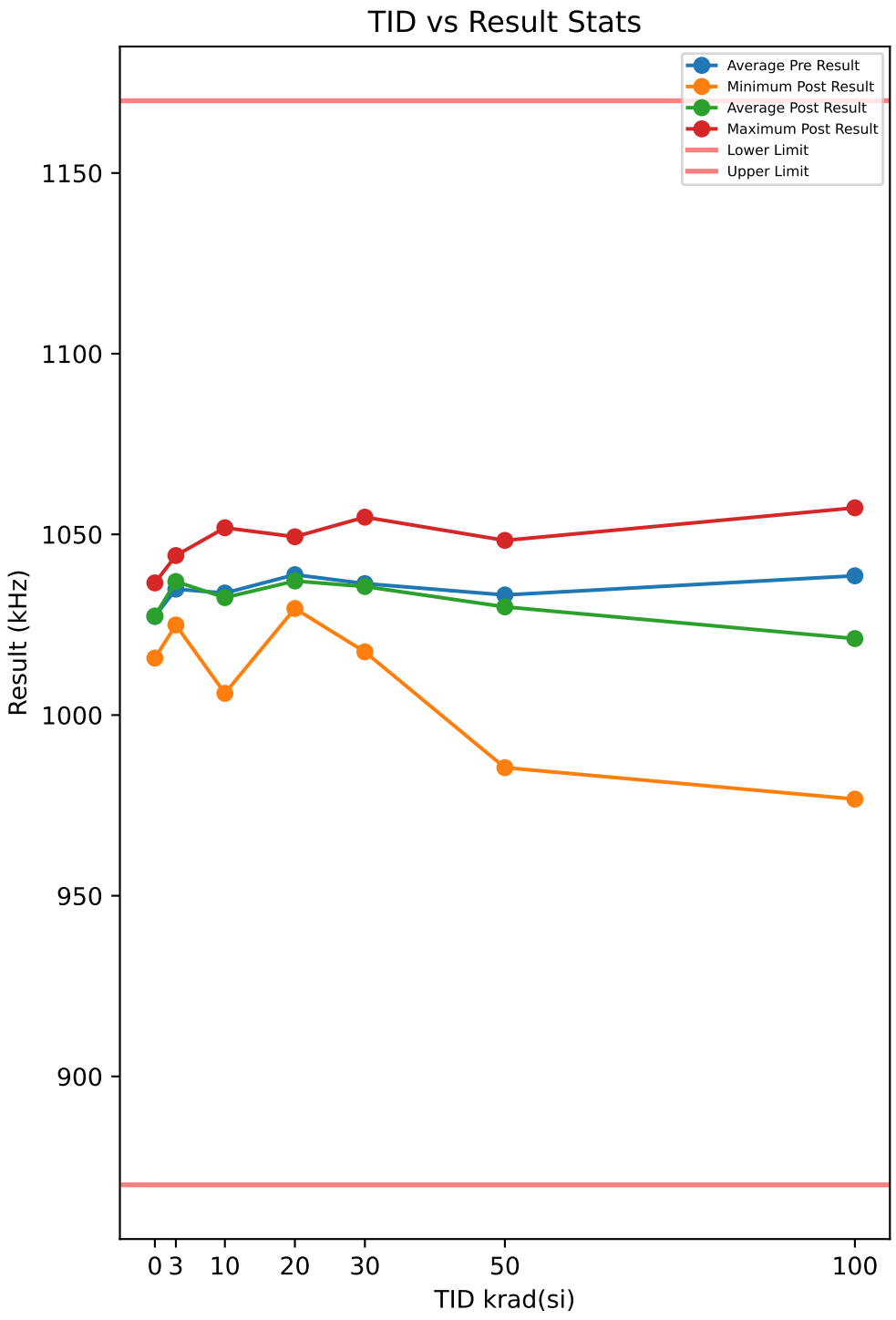
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	502.83	509.94	7.111
51	3	Biased	511.42	510.91	-0.5115
52	3	Biased	503.44	515.57	12.126
53	3	Biased	504.77	509.79	5.0174
54	3	Biased	505.54	508.56	3.0123
55	3	Unbiased	505.31	509.84	4.5305
56	3	Unbiased	502.51	506.62	4.1108
57	3	Unbiased	507.82	514.33	6.5023
58	3	Unbiased	508.35	515.35	6.9964
59	3	Unbiased	508.22	511.58	3.3571
60	10	Biased	510.86	515.81	4.9534
61	10	Biased	500.9	515.46	14.552
62	10	Biased	503.78	514.82	11.041
63	10	Biased	510.84	508.79	-2.0517
64	10	Biased	511.64	503.52	-8.1258
65	10	Unbiased	506.67	510.4	3.7277
66	10	Unbiased	507.48	503.36	-4.1153
67	10	Unbiased	509.95	510.59	0.6489
68	10	Unbiased	511.93	510.96	-0.9662
69	10	Unbiased	506.21	514.22	8.0139
100	20	Biased	507.11	505.6	-1.5086
200	20	Biased	507.63	505.86	-1.7612
300	20	Biased	508.68	506.9	-1.7848
400	20	Biased	512.85	511.76	-1.0959
500	20	Biased	510.95	510.83	-0.1217
600	20	Unbiased	500.55	499.15	-1.3968
700	20	Unbiased	507.98	507.94	-0.0397
800	20	Unbiased	509.42	509.23	-0.19
900	20	Unbiased	511.08	510.3	-0.7856
1000	20	Unbiased	506.02	505.88	-0.1419
1100	30	Biased	506.5	506.69	0.1963
1200	30	Biased	509.73	508.3	-1.437
1300	30	Biased	503	503.9	0.9019
1400	30	Biased	505.18	504.76	-0.42
1500	30	Biased	507.99	507.02	-0.968
1600	30	Unbiased	510.33	510.07	-0.2574
1700	30	Unbiased	511.3	509.82	-1.4793
1800	30	Unbiased	510.78	511.11	0.3302
1900	30	Unbiased	508.92	509.61	0.6886
2000	30	Unbiased	506.2	506.94	0.7432
2100	50	Biased-84Hr-Anneal	504.1	518.99	14.889
2200	50	Biased-84Hr-Anneal	508.74	503.28	-5.4621
2300	50	Biased-84Hr-Anneal	511.05	509.62	-1.4294
2400	50	Biased-84Hr-Anneal	505.85	506.01	0.1534
2500	50	Biased-84Hr-Anneal	513.33	513.18	-0.1453
2600	50	Unbiased	510.38	510.55	0.1679
2700	50	Unbiased	505.38	505.87	0.4922
2800	50	Unbiased	501.96	502.9	0.9347
2900	50	Unbiased	509.05	508.92	-0.1279
3000	50	Unbiased	507.54	507.2	-0.3418
4000	100	Biased-168Hr-Anneal	507.53	506.08	-1.4496
4100	100	Biased-168Hr-Anneal	511.48	509.33	-2.1473
4200	100	Biased-168Hr-Anneal	511.7	511.37	-0.3361
4300	100	Biased-168Hr-Anneal	507.97	507.19	-0.7759
4400	100	Biased-168Hr-Anneal	507.3	506.68	-0.6264
4500	100	Unbiased-168Hr-Anneal	510.67	510.2	-0.469
4600	100	Unbiased-168Hr-Anneal	511.01	508.95	-2.0531
4700	100	Unbiased-168Hr-Anneal	517.8	515.91	-1.8888
4800	100	Unbiased-168Hr-Anneal	510.66	509.81	-0.8591
4900	100	Unbiased-168Hr-Anneal	517.49	515.52	-1.9743
9300	0	CORRELATION	503.83	507.34	3.5106
9400	0	CORRELATION	512.76	512.99	0.223
9500	0	CORRELATION	506.27	506.37	0.102
9600	0	CORRELATION	502.67	502.97	0.3098
9700	0	CORRELATION	507.51	507.66	0.1465

Test Statistics (kHz)

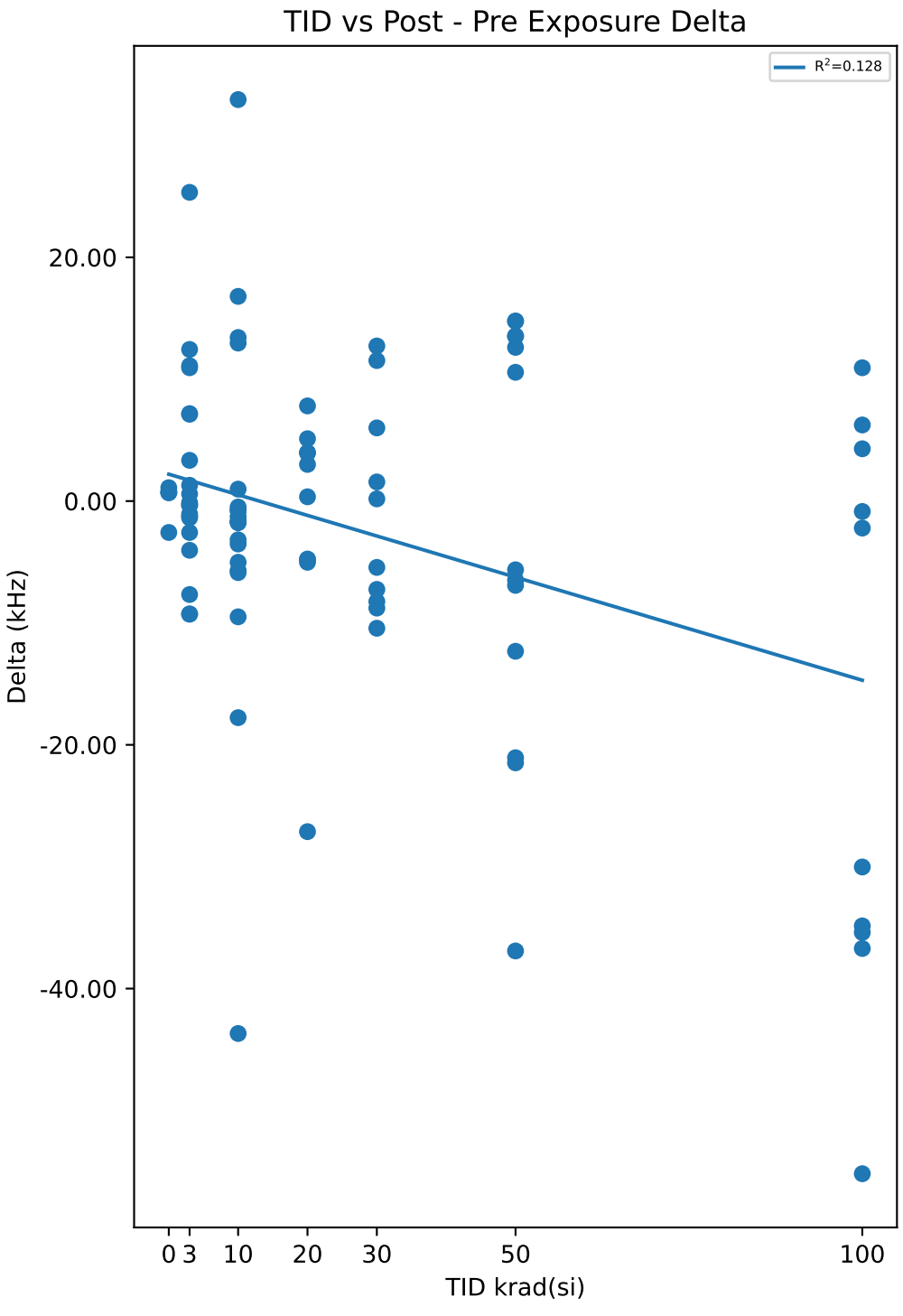
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	502.67	506.61	512.76	3.9404	502.97	507.46	512.99	3.6024	0.102	0.85838	3.5106	1.4847
3	502.51	506.02	511.42	2.8698	506.62	511.25	515.57	2.9742	-0.5115	5.2252	12.126	3.3167
10	500.9	508.03	511.93	3.6829	503.36	510.79	515.81	4.5624	-8.1258	2.7677	14.552	7.0571
20	500.55	508.23	512.85	3.4005	499.15	507.34	511.76	3.6349	-1.7848	-0.88262	-0.0397	0.71607
30	503	507.99	511.3	2.7148	503.9	507.82	511.11	2.3731	-1.4793	-0.17015	0.9019	0.89013
50	501.96	507.74	513.33	3.4585	502.9	508.65	518.99	4.8382	-5.4621	0.91309	14.889	5.234
100	507.3	511.36	517.8	3.6952	506.08	510.1	515.91	3.3834	-2.1473	-1.258	-0.3361	0.71753

Device Test: 24.109 FREQ|1MHz/SYNC1/12//34.8k//@EXT_SET_FREQ_1000kHz



Test Results (Lower Limit = 870.0, Upper Limit = 1170.0 (kHz))

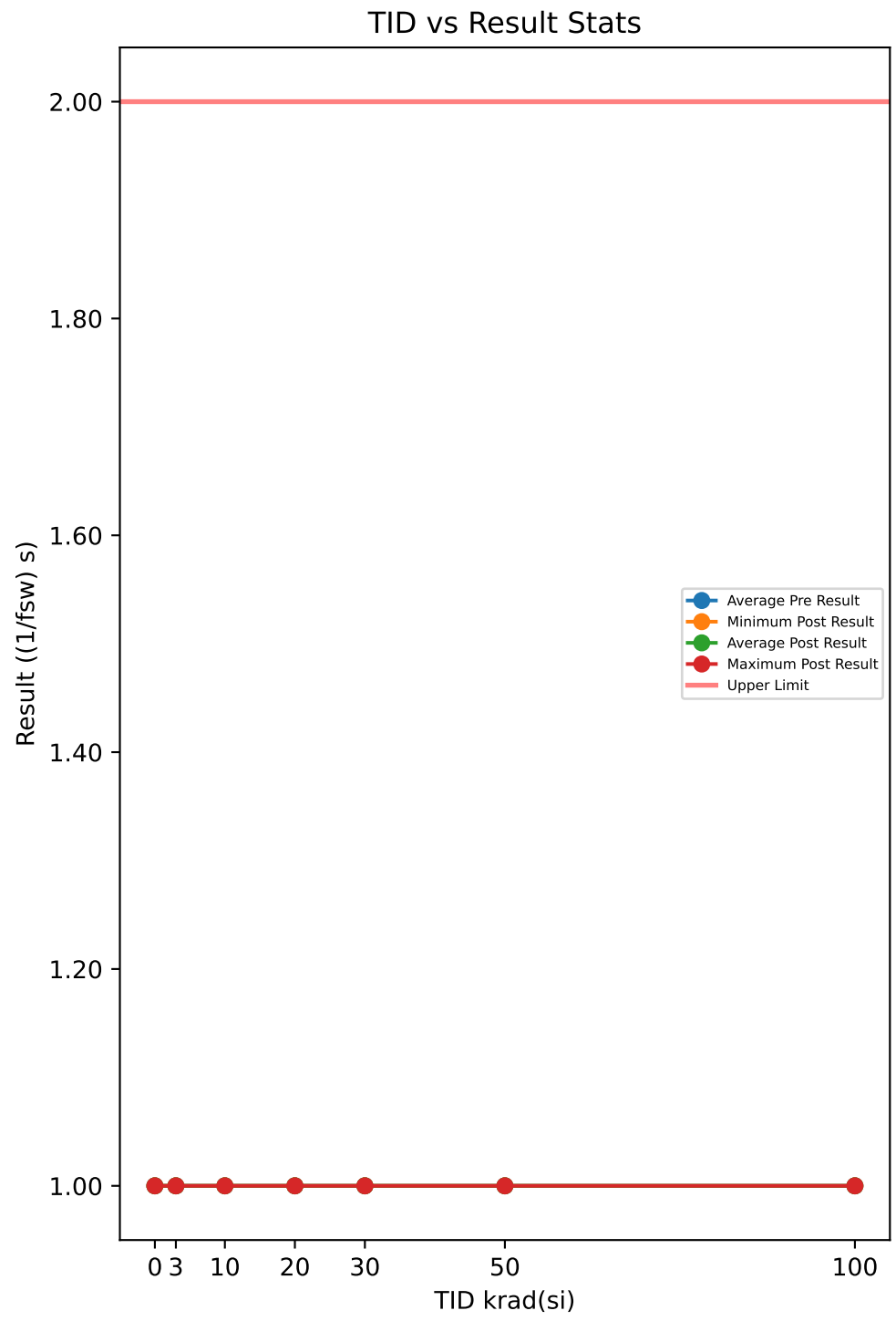
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1034.2	1024.9	-9.2576
51	3	Biased	1037.3	1029.6	-7.6667
52	3	Biased	1018.8	1044.1	25.333
53	3	Biased	1044.3	1035	-9.2811
54	3	Biased	1031.9	1042.8	10.943
55	3	Unbiased	1028.8	1039.9	11.107
56	3	Unbiased	1022.2	1034.7	12.442
57	3	Unbiased	1035.3	1038.6	3.3431
58	3	Unbiased	1031.5	1038.6	7.1261
59	3	Unbiased	1034	1041.2	7.1749
60	10	Biased	1031.2	1044.2	12.966
61	10	Biased	1018.9	1051.8	32.943
62	10	Biased	1028.4	1041.8	13.422
63	10	Biased	1043.2	1037.5	-5.6846
64	10	Biased	1039.1	1021.4	-17.77
65	10	Unbiased	1035.5	1026	-9.4969
66	10	Unbiased	1027.8	1022.8	-5.0203
67	10	Unbiased	1028	1026.3	-1.6952
68	10	Unbiased	1049.7	1006	-43.685
69	10	Unbiased	1030.4	1047.2	16.796
100	20	Biased	1029.4	1033.4	3.948
200	20	Biased	1034.5	1029.5	-5.0205
300	20	Biased	1076.5	1049.3	-27.123
400	20	Biased	1036.5	1031.8	-4.756
500	20	Biased	1038.9	1039.2	0.3517
600	20	Unbiased	1023.5	1031.4	7.8092
700	20	Unbiased	1041.6	1036.8	-4.801
800	20	Unbiased	1038.1	1041.1	3.0085
900	20	Unbiased	1037.3	1041.2	3.9869
1000	20	Unbiased	1032.2	1037.3	5.1167
1100	30	Biased	1040.4	1033.2	-7.248
1200	30	Biased	1028.1	1019.3	-8.7793
1300	30	Biased	1017.3	1017.5	0.1822
1400	30	Biased	1034.9	1036.5	1.5704
1500	30	Biased	1033.7	1039.7	6.0041
1600	30	Unbiased	1029.2	1020.9	-8.2411
1700	30	Unbiased	1042	1054.8	12.727
1800	30	Unbiased	1054.7	1044.3	-10.434
1900	30	Unbiased	1047.8	1042.4	-5.4422
2000	30	Unbiased	1035.7	1047.2	11.53
2100	50	Biased-84Hr-Anneal	1029.3	1042.9	13.538
2200	50	Biased-84Hr-Anneal	1034.7	1027.8	-6.9149
2300	50	Biased-84Hr-Anneal	1032.8	1020.5	-12.322
2400	50	Biased-84Hr-Anneal	1036.1	1046.7	10.567
2500	50	Biased-84Hr-Anneal	1041.9	1035.5	-6.4825
2600	50	Unbiased	1031.4	1009.9	-21.477
2700	50	Unbiased	1020.4	999.3	-21.058
2800	50	Unbiased	1022.4	985.45	-36.913
2900	50	Unbiased	1047.6	1042	-5.6366
3000	50	Unbiased	1035.7	1048.3	12.611
4000	100	Biased-168Hr-Anneal	1031.9	976.74	-55.191
4100	100	Biased-168Hr-Anneal	1045.7	1056.6	10.94
4200	100	Biased-168Hr-Anneal	1038.6	1037.7	-0.8534
4300	100	Biased-168Hr-Anneal	1031.6	1035.9	4.2916
4400	100	Biased-168Hr-Anneal	1024.4	987.65	-36.709
4500	100	Unbiased-168Hr-Anneal	1028.9	998.88	-30.022
4600	100	Unbiased-168Hr-Anneal	1050.5	1056.8	6.2449
4700	100	Unbiased-168Hr-Anneal	1059.6	1057.3	-2.2143
4800	100	Unbiased-168Hr-Anneal	1038	1003.1	-34.856
4900	100	Unbiased-168Hr-Anneal	1036.3	1000.9	-35.395
9300	0	CORRELATION	1033.3	1030.7	-2.5744
9400	0	CORRELATION	1035.5	1036.6	1.0982
9500	0	CORRELATION	1027.1	1027.8	0.6795
9600	0	CORRELATION	1025.5	1026.2	0.7147
9700	0	CORRELATION	1015	1015.8	0.7376

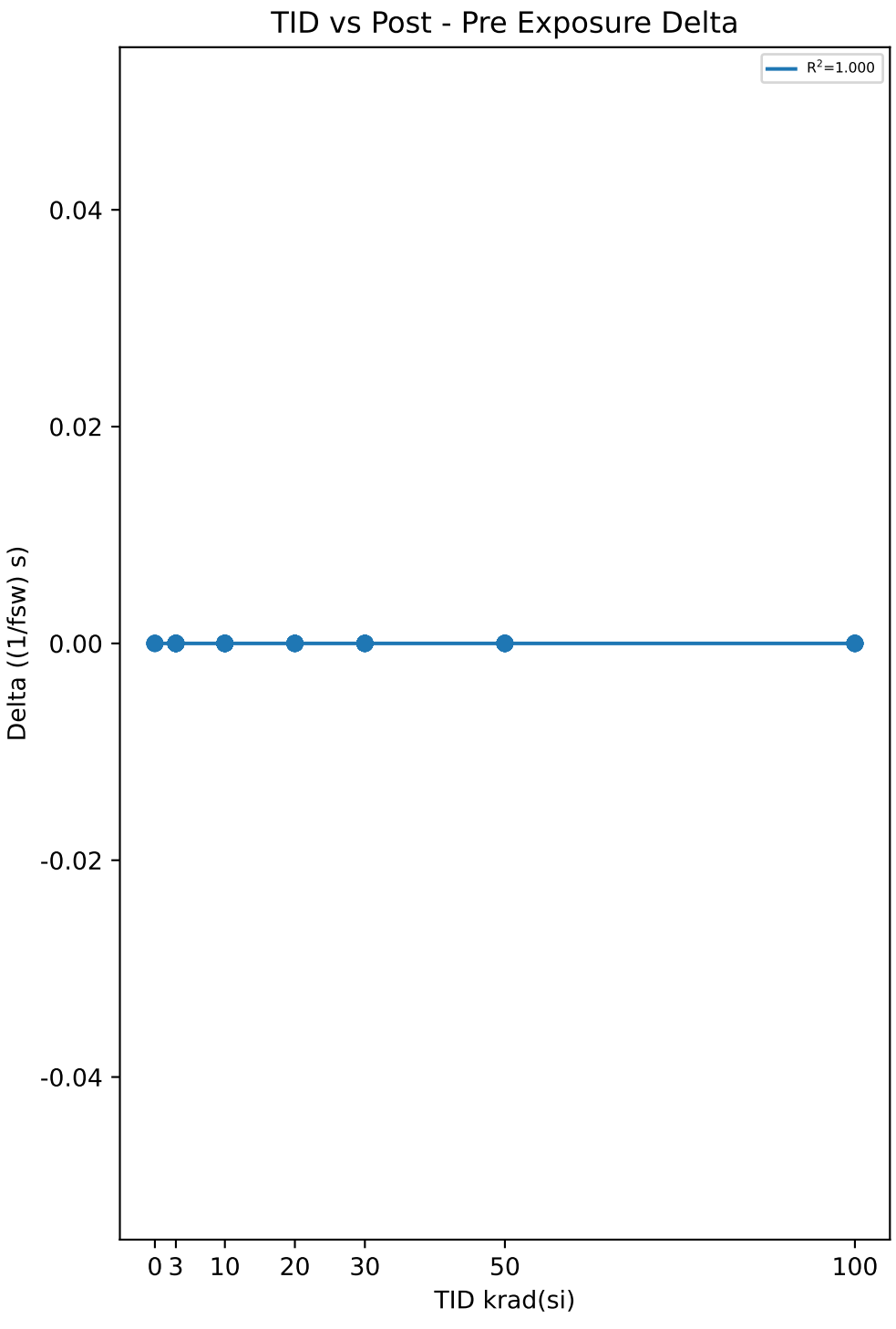


Test Statistics (kHz)

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	1015	1027.3	1035.5	8.0092	1015.8	1027.4	1036.6	7.6162	-2.5744	0.13112	1.0982	1.5219
3	1018.8	1031.8	1044.3	7.2917	1024.9	1037	1044.1	6.0128	-9.2811	5.1264	25.333	11.16
10	1018.9	1033.2	1049.7	8.8756	1006	1032.5	1051.8	14.291	-43.685	-0.72242	32.943	21.305
20	1023.5	1038.8	1076.5	14.206	1029.5	1037.1	1049.3	5.9693	-27.123	-1.748	7.8092	10.021
30	1017.3	1036.4	1054.7	10.588	1017.5	1035.6	1054.8	12.714	-10.434	-0.81309	12.727	8.5821
50	1020.4	1033.2	1047.6	8.1828	985.45	1025.8	1048.3	21.622	-36.913	-7.4087	13.538	16.485
100	1024.4	1038.5	1059.6	10.682	976.74	1021.2	1057.3	31.009	-55.191	-17.376	10.94	23.395

Device Test: 24.11 TIMING|CLKDETECT/SYNC1/4.5//511k//@T_CLOCK_DET_EXT





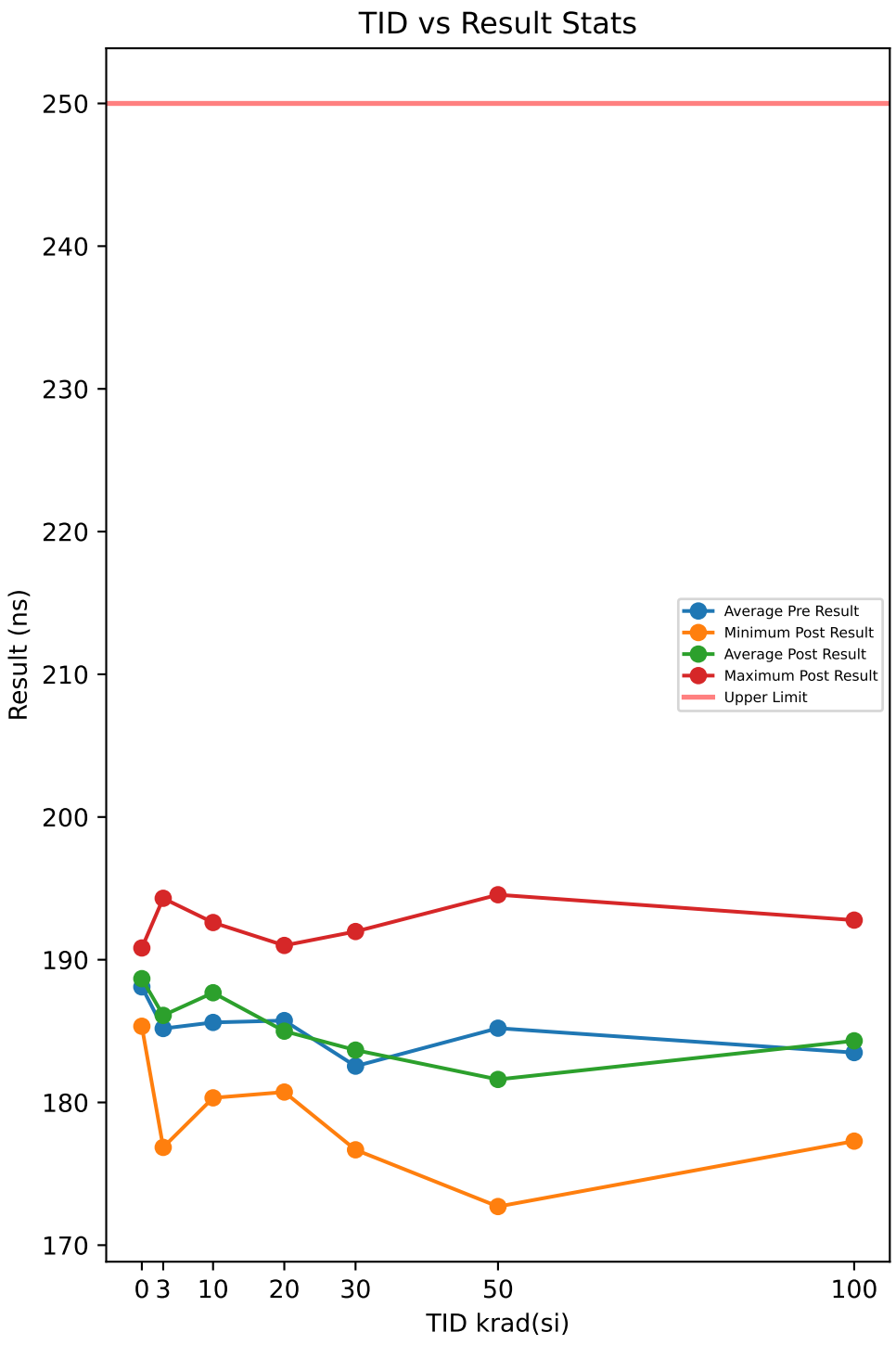
Test Results (Upper Limit = 2.0 ((1/fsw) s))

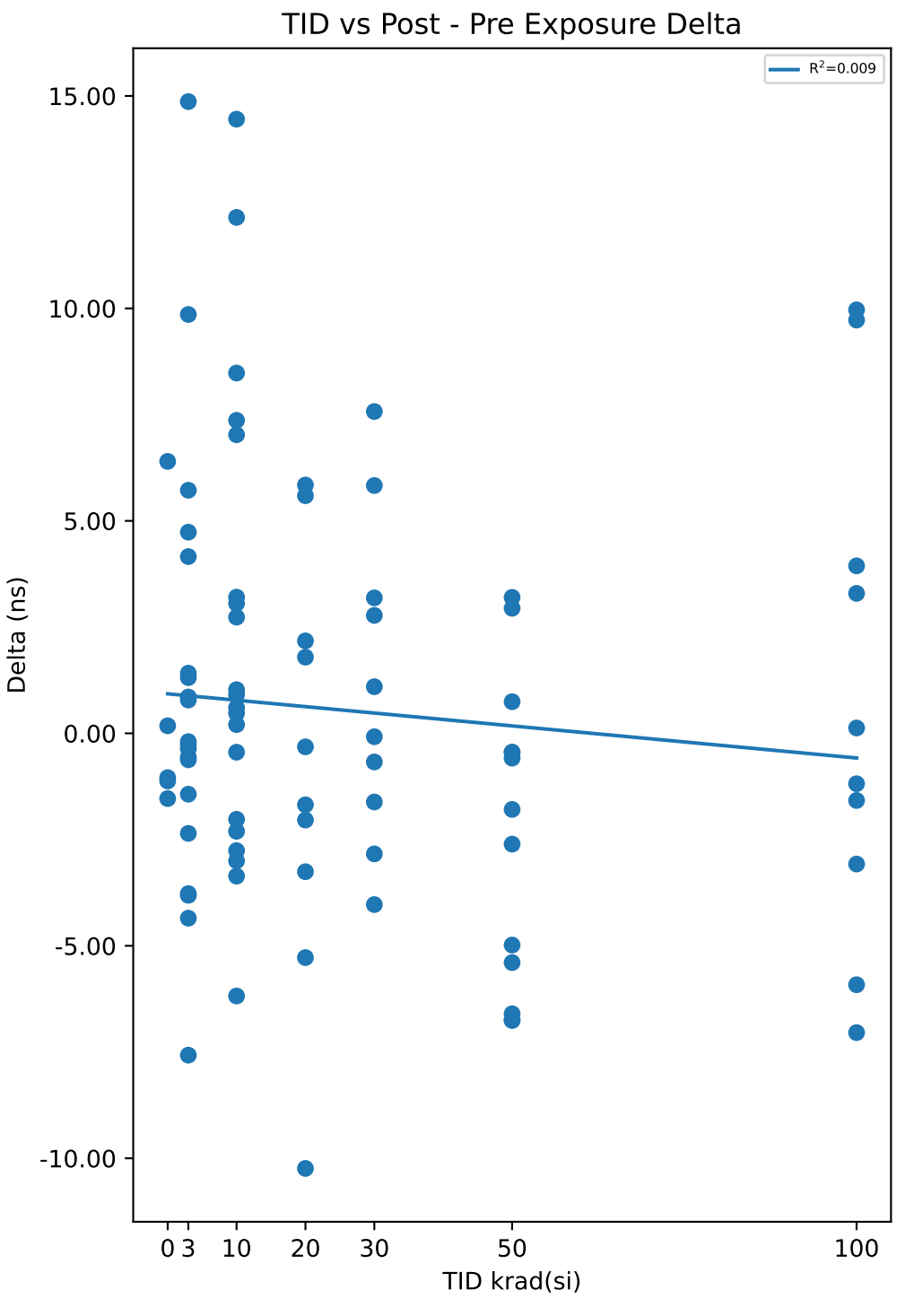
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1	1	0
51	3	Biased	1	1	0
52	3	Biased	1	1	0
53	3	Biased	1	1	0
54	3	Biased	1	1	0
55	3	Unbiased	1	1	0
56	3	Unbiased	1	1	0
57	3	Unbiased	1	1	0
58	3	Unbiased	1	1	0
59	3	Unbiased	1	1	0
60	10	Biased	1	1	0
61	10	Biased	1	1	0
62	10	Biased	1	1	0
63	10	Biased	1	1	0
64	10	Biased	1	1	0
65	10	Unbiased	1	1	0
66	10	Unbiased	1	1	0
67	10	Unbiased	1	1	0
68	10	Unbiased	1	1	0
69	10	Unbiased	1	1	0
100	20	Biased	1	1	0
200	20	Biased	1	1	0
300	20	Biased	1	1	0
400	20	Biased	1	1	0
500	20	Biased	1	1	0
600	20	Unbiased	1	1	0
700	20	Unbiased	1	1	0
800	20	Unbiased	1	1	0
900	20	Unbiased	1	1	0
1000	20	Unbiased	1	1	0
1100	30	Biased	1	1	0
1200	30	Biased	1	1	0
1300	30	Biased	1	1	0
1400	30	Biased	1	1	0
1500	30	Biased	1	1	0
1600	30	Unbiased	1	1	0
1700	30	Unbiased	1	1	0
1800	30	Unbiased	1	1	0
1900	30	Unbiased	1	1	0
2000	30	Unbiased	1	1	0
2100	50	Biased-84Hr-Anneal	1	1	0
2200	50	Biased-84Hr-Anneal	1	1	0
2300	50	Biased-84Hr-Anneal	1	1	0
2400	50	Biased-84Hr-Anneal	1	1	0
2500	50	Biased-84Hr-Anneal	1	1	0
2600	50	Unbiased	1	1	0
2700	50	Unbiased	1	1	0
2800	50	Unbiased	1	1	0
2900	50	Unbiased	1	1	0
3000	50	Unbiased	1	1	0
4000	100	Biased-168Hr-Anneal	1	1	0
4100	100	Biased-168Hr-Anneal	1	1	0
4200	100	Biased-168Hr-Anneal	1	1	0
4300	100	Biased-168Hr-Anneal	1	1	0
4400	100	Biased-168Hr-Anneal	1	1	0
4500	100	Unbiased-168Hr-Anneal	1	1	0
4600	100	Unbiased-168Hr-Anneal	1	1	0
4700	100	Unbiased-168Hr-Anneal	1	1	0
4800	100	Unbiased-168Hr-Anneal	1	1	0
4900	100	Unbiased-168Hr-Anneal	1	1	0
9300	0	CORRELATION	1	1	0
9400	0	CORRELATION	1	1	0
9500	0	CORRELATION	1	1	0
9600	0	CORRELATION	1	1	0
9700	0	CORRELATION	1	1	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	1	1	1	0	1	1	1	0	0	0	0	0
3	1	1	1	0	1	1	1	0	0	0	0	0
10	1	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0
100	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.111 TIMING|MINON/SW/12//511k//@ON_TIME_MIN_12V





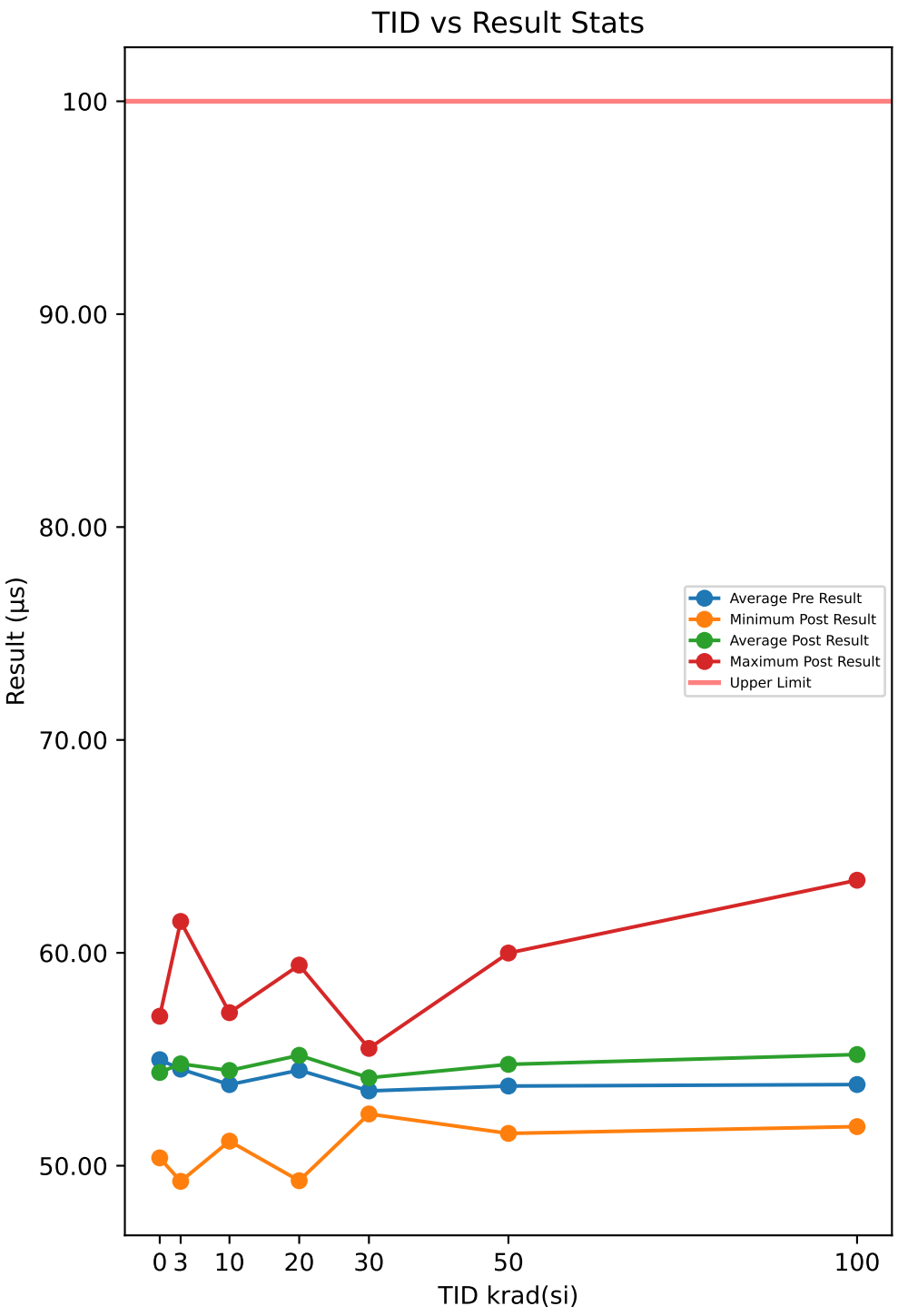
Test Results (Upper Limit = 250.0 (ns))

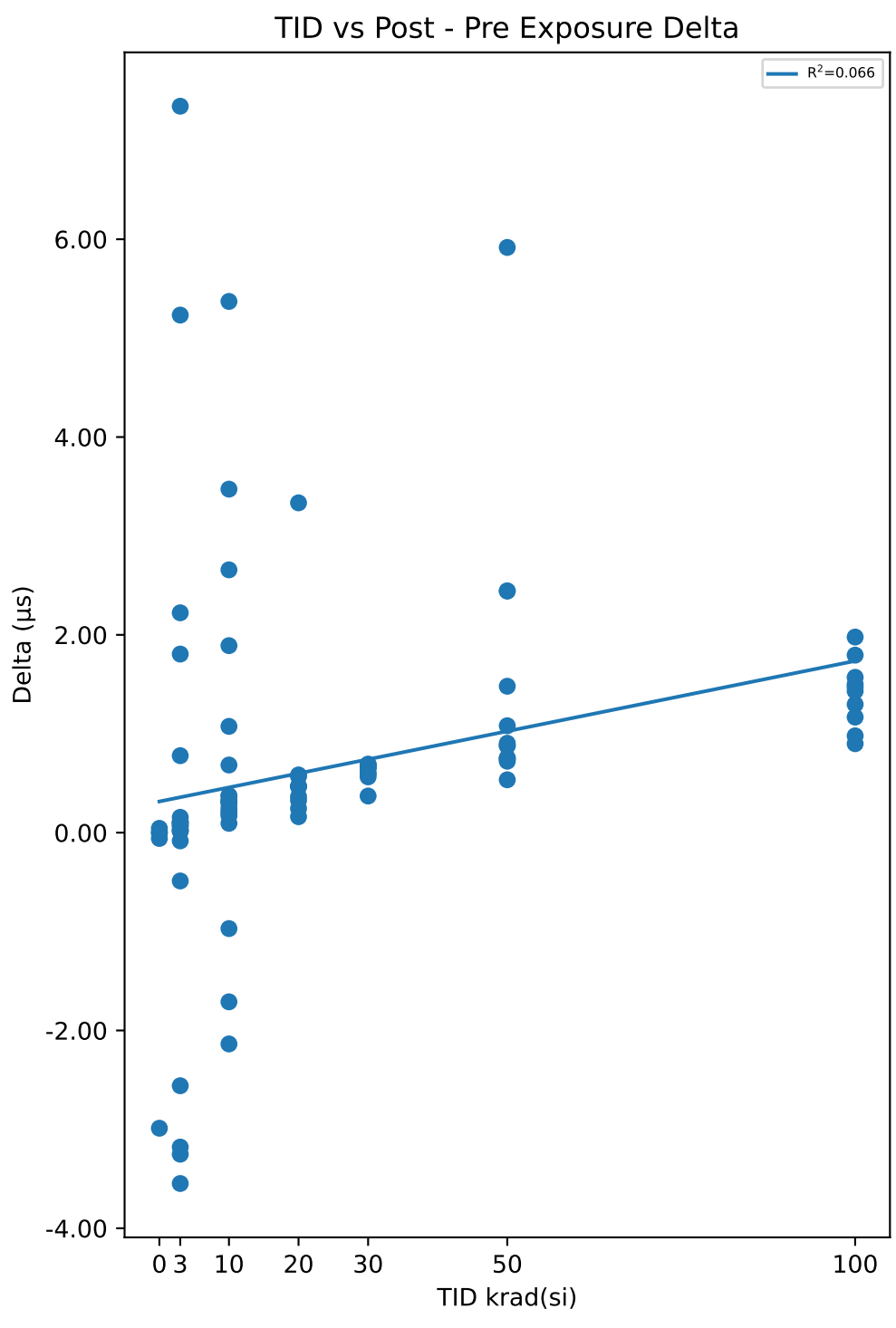
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	179.73	185.45	5.7207
51	3	Biased	183.58	182.96	-0.6233
52	3	Biased	184.42	176.85	-7.5732
53	3	Biased	182.38	182.18	-0.1952
54	3	Biased	182.89	178.54	-4.35
55	3	Unbiased	190.48	190.11	-0.3658
56	3	Unbiased	190.65	186.84	-3.8116
57	3	Unbiased	179.44	194.3	14.867
58	3	Unbiased	179.8	189.66	9.8568
59	3	Unbiased	189.36	194.1	4.7341
60	10	Biased	182.12	189.49	7.3655
61	10	Biased	184.61	187.35	2.7338
62	10	Biased	182.25	190.73	8.4793
63	10	Biased	191.82	185.64	-6.1812
64	10	Biased	189.69	189.25	-0.4443
65	10	Unbiased	180.46	192.61	12.141
66	10	Unbiased	179.41	180.32	0.9108
67	10	Unbiased	183.6	190.62	7.0264
68	10	Unbiased	176.07	190.53	14.453
69	10	Unbiased	179.86	180.34	0.4739
100	20	Biased	190.97	180.73	-10.239
200	20	Biased	179.71	185.3	5.5929
300	20	Biased	183.31	181.27	-2.0407
400	20	Biased	184.94	183.26	-1.6818
500	20	Biased	190.95	187.7	-3.2565
600	20	Unbiased	182.34	188.19	5.8435
700	20	Unbiased	193.97	188.7	-5.2775
800	20	Unbiased	180.14	181.93	1.793
900	20	Unbiased	191.32	191	-0.3177
1000	20	Unbiased	179.71	181.89	2.1756
1100	30	Biased	178.3	176.68	-1.6153
1200	30	Biased	182.39	185.58	3.188
1300	30	Biased	182.62	178.59	-4.0297
1400	30	Biased	180.56	186.4	5.832
1500	30	Biased	186.64	185.97	-0.6733
1600	30	Unbiased	189.2	191.98	2.7755
1700	30	Unbiased	185.37	185.3	-0.0793
1800	30	Unbiased	179.33	186.91	7.5737
1900	30	Unbiased	185.01	182.17	-2.8371
2000	30	Unbiased	176	177.1	1.0975
2100	50	Biased-84Hr-Anneal	179.46	179.01	-0.4445
2200	50	Biased-84Hr-Anneal	180.94	174.34	-6.5993
2300	50	Biased-84Hr-Anneal	181.07	175.68	-5.3953
2400	50	Biased-84Hr-Anneal	189.83	187.22	-2.6077
2500	50	Biased-84Hr-Anneal	189.4	187.61	-1.7903
2600	50	Unbiased	183.35	186.55	3.1995
2700	50	Unbiased	193.81	194.55	0.7441
2800	50	Unbiased	184.4	179.42	-4.9825
2900	50	Unbiased	188.05	187.47	-0.5839
3000	50	Unbiased	181.72	184.66	2.9435
4000	100	Biased-168Hr-Anneal	194.35	192.77	-1.5798
4100	100	Biased-168Hr-Anneal	177.48	180.77	3.2935
4200	100	Biased-168Hr-Anneal	193.92	188	-5.9163
4300	100	Biased-168Hr-Anneal	174.27	178.21	3.9412
4400	100	Biased-168Hr-Anneal	185.02	177.98	-7.043
4500	100	Unbiased-168Hr-Anneal	187.55	187.67	0.1262
4600	100	Unbiased-168Hr-Anneal	167.56	177.29	9.7257
4700	100	Unbiased-168Hr-Anneal	190.42	187.35	-3.0758
4800	100	Unbiased-168Hr-Anneal	187.34	186.15	-1.1857
4900	100	Unbiased-168Hr-Anneal	177.02	186.99	9.9653
9300	0	CORRELATION	184.42	190.82	6.3995
9400	0	CORRELATION	191.66	190.13	-1.5347
9500	0	CORRELATION	190.21	190.39	0.1775
9600	0	CORRELATION	187.81	186.69	-1.1214
9700	0	CORRELATION	186.38	185.34	-1.0428

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	184.42	188.1	191.66	2.9025	185.34	188.67	190.82	2.4875	-1.5347	0.57562	6.3995	3.3177
3	179.44	184.27	190.65	4.4097	176.85	186.1	194.3	6.0444	-7.5732	1.8259	14.867	6.9229
10	176.07	182.99	191.82	4.7613	180.32	187.69	192.61	4.3256	-6.1812	4.6959	14.453	6.3091
20	179.71	185.74	193.97	5.5346	180.73	184.99	191	3.6744	-10.239	-0.74079	5.8435	4.9246
30	176	182.54	189.2	4.0865	176.68	183.67	191.98	4.9276	-4.0297	1.1232	7.5737	3.7295
50	179.46	185.2	193.81	4.78	174.34	183.65	194.55	6.3331	-6.5993	-1.5516	3.1995	3.3897
100	167.56	183.49	194.35	8.9756	177.29	184.32	192.77	5.328	-7.043	0.82513	9.9653	5.8827

Device Test: 24.112 TIMING|DELAY/EN/12//511k//@T_EN_DELAY





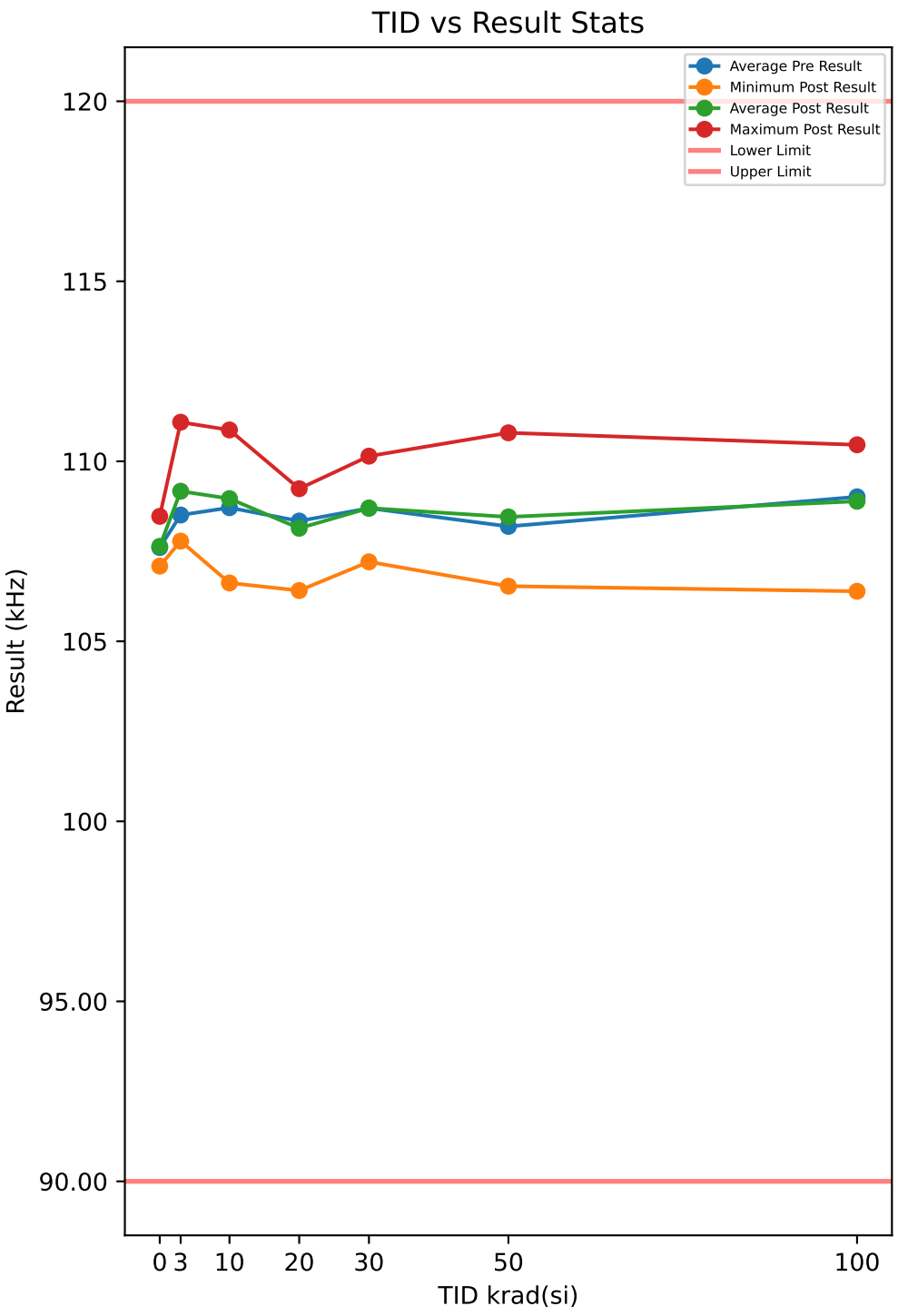
Test Results (Upper Limit = 100.0 (µs))

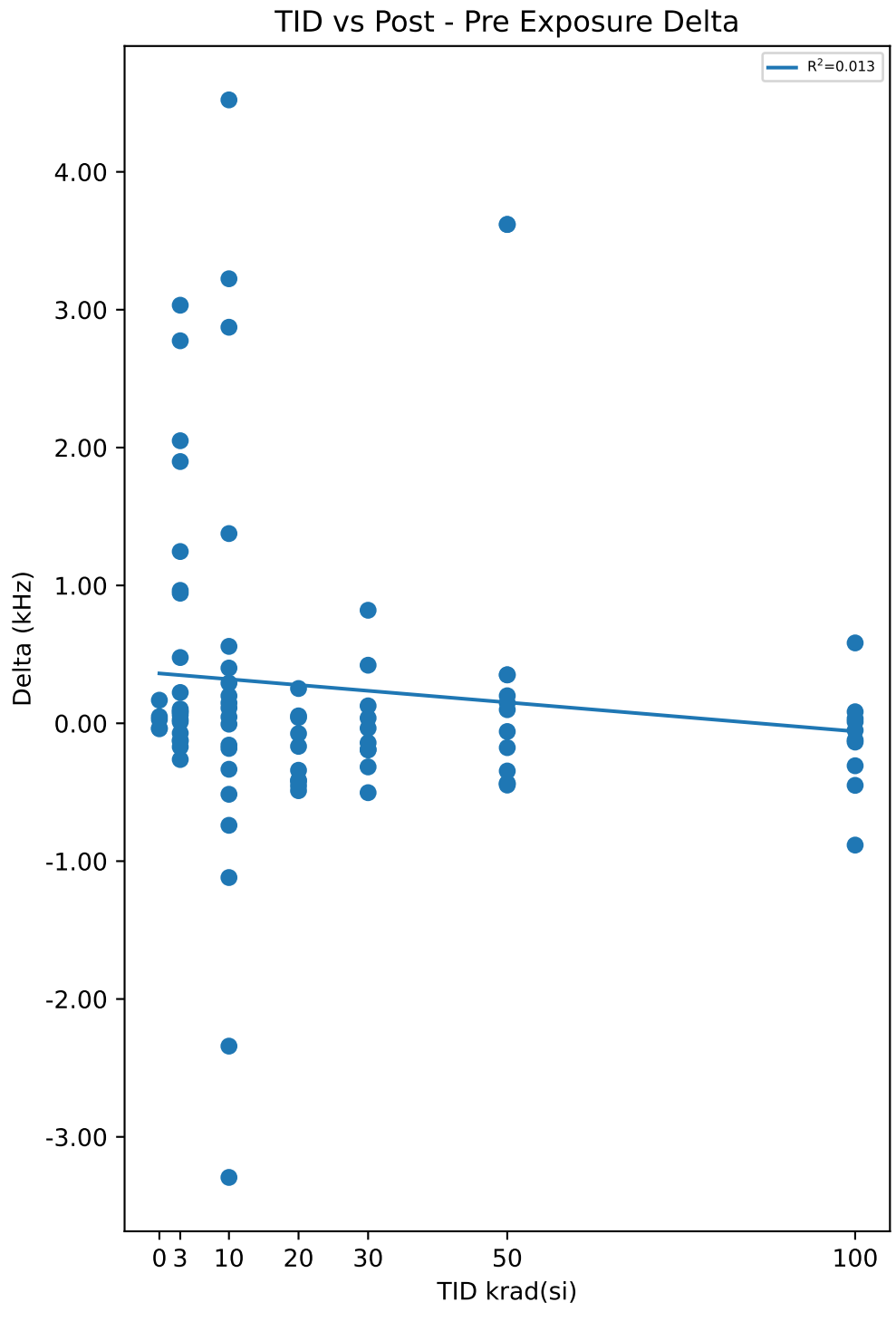
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	56.258	58.064	1.8056
51	3	Biased	56.236	52.688	-3.5475
52	3	Biased	53.583	50.404	-3.1792
53	3	Biased	54.703	54.214	-0.4884
54	3	Biased	51.057	56.29	5.2333
55	3	Unbiased	57.134	59.357	2.2229
56	3	Unbiased	53.343	54.121	0.7783
57	3	Unbiased	52.517	49.266	-3.2511
58	3	Unbiased	54.526	51.967	-2.559
59	3	Unbiased	54.129	61.474	7.345
60	10	Biased	55.343	56.027	0.684
61	10	Biased	52.464	55.938	3.4733
62	10	Biased	55.721	56.796	1.0745
63	10	Biased	55.298	57.189	1.8909
64	10	Biased	54.291	52.58	-1.7107
65	10	Unbiased	53.291	51.155	-2.1364
66	10	Unbiased	55.226	54.256	-0.9701
67	10	Unbiased	49.214	54.586	5.3712
68	10	Unbiased	52.811	53.133	0.3217
69	10	Unbiased	50.416	53.073	2.6572
100	20	Biased	50.382	53.717	3.3348
200	20	Biased	48.931	49.296	0.3649
300	20	Biased	57.335	57.497	0.1613
400	20	Biased	57.816	58.283	0.467
500	20	Biased	51.589	51.915	0.3266
600	20	Unbiased	58.856	59.424	0.5683
700	20	Unbiased	55.519	55.987	0.4683
800	20	Unbiased	55.415	55.999	0.5836
900	20	Unbiased	52.374	52.841	0.4671
1000	20	Unbiased	56.658	56.902	0.2445
1100	30	Biased	52.649	53.33	0.6814
1200	30	Biased	53.505	54.195	0.6895
1300	30	Biased	54.733	55.395	0.6625
1400	30	Biased	54.688	55.059	0.3704
1500	30	Biased	54.855	55.511	0.6563
1600	30	Unbiased	54.37	54.934	0.564
1700	30	Unbiased	51.776	52.431	0.6557
1800	30	Unbiased	53.517	54.11	0.5925
1900	30	Unbiased	51.842	52.534	0.6924
2000	30	Unbiased	53.206	53.811	0.6053
2100	50	Biased-84Hr-Anneal	51.644	54.088	2.4437
2200	50	Biased-84Hr-Anneal	54.073	59.99	5.9171
2300	50	Biased-84Hr-Anneal	55.148	55.888	0.7399
2400	50	Biased-84Hr-Anneal	54.108	54.864	0.7563
2500	50	Biased-84Hr-Anneal	53.215	53.938	0.7223
2600	50	Unbiased	50.983	51.518	0.5345
2700	50	Unbiased	55.828	57.309	1.4804
2800	50	Unbiased	53.49	54.243	0.7528
2900	50	Unbiased	54.997	55.901	0.9037
3000	50	Unbiased	53.94	55.021	1.081
4000	100	Biased-168Hr-Anneal	54.514	56.016	1.501
4100	100	Biased-168Hr-Anneal	52.652	53.631	0.9787
4200	100	Biased-168Hr-Anneal	53.552	54.451	0.8993
4300	100	Biased-168Hr-Anneal	61.433	63.411	1.9776
4400	100	Biased-168Hr-Anneal	50.936	52.234	1.2973
4500	100	Unbiased-168Hr-Anneal	54.834	56.305	1.4713
4600	100	Unbiased-168Hr-Anneal	56.129	57.924	1.795
4700	100	Unbiased-168Hr-Anneal	52.752	54.322	1.5704
4800	100	Unbiased-168Hr-Anneal	50.668	51.836	1.1682
4900	100	Unbiased-168Hr-Anneal	50.662	52.094	1.4317
9300	0	CORRELATION	53.358	50.369	-2.9886
9400	0	CORRELATION	54.919	54.963	0.0435
9500	0	CORRELATION	55.893	55.896	0.0029
9600	0	CORRELATION	57.024	57.021	-0.0032
9700	0	CORRELATION	53.709	53.651	-0.0586

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	53.358	54.981	57.024	1.5218	50.369	54.38	57.021	2.5609	-2.9886	-0.6008	0.0435	1.3353
3	51.057	54.349	57.134	1.8547	49.266	54.785	61.474	3.964	-3.5475	0.43599	7.345	3.7755
10	49.214	53.408	55.721	2.2248	51.155	54.473	57.189	1.9927	-2.1364	1.0656	5.3712	2.3653
20	48.931	54.487	58.856	3.4239	49.296	55.186	59.424	3.1656	0.1613	0.69864	3.3348	0.93599
30	51.776	53.514	54.855	1.1575	52.431	54.131	55.511	1.1154	0.3704	0.617	0.6924	0.09693
50	50.983	53.743	55.828	1.5107	51.518	55.276	59.99	2.2547	0.5345	1.5332	5.9171	1.638
100	50.662	53.813	61.433	3.2592	51.836	55.222	63.411	3.5004	0.8993	1.4091	1.9776	0.33774

Device Test: 24.12 FREQ|100kHz/SYNC1/4.5//511k//@EXT_SET_FREQ_100kHz





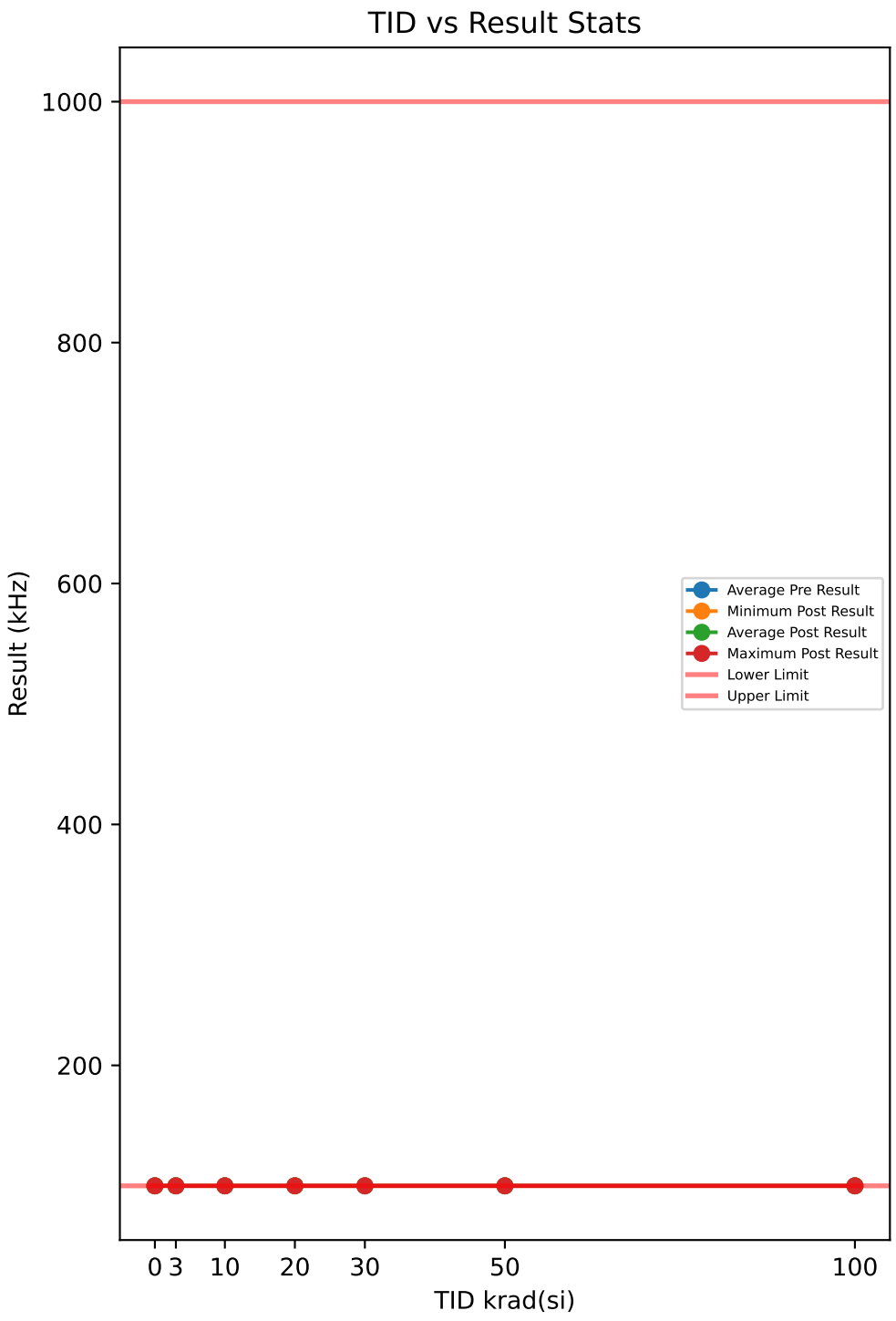
Test Results (Lower Limit = 90.0, Upper Limit = 120.0 (kHz))

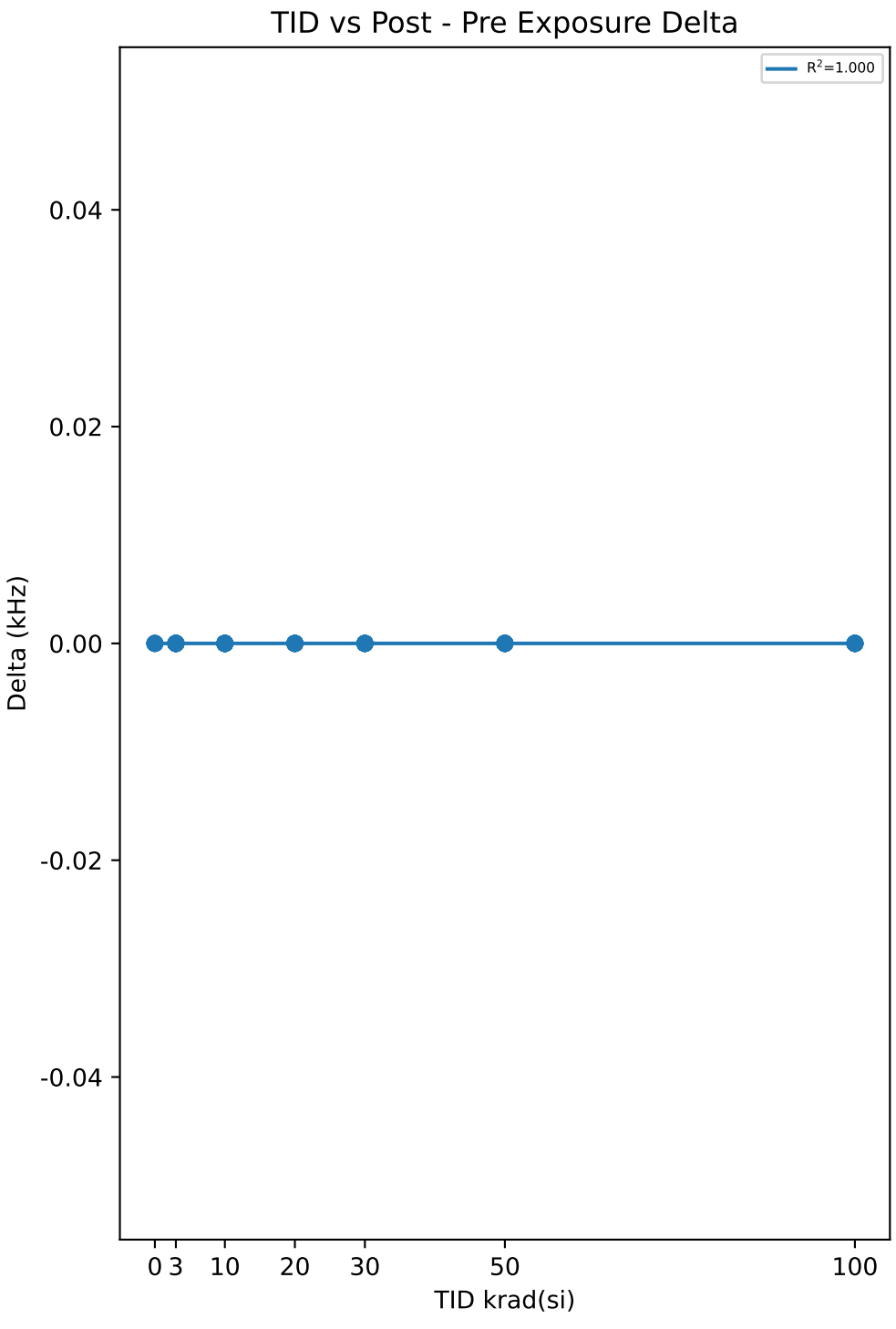
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	108.32	108.38	0.0607
51	3	Biased	107.73	108.7	0.964
52	3	Biased	106.01	109.05	3.0325
53	3	Biased	108.94	108.67	-0.2628
54	3	Biased	108.37	108.85	0.477
55	3	Unbiased	107.26	109.16	1.8987
56	3	Unbiased	106.54	107.78	1.246
57	3	Unbiased	108.57	109.51	0.9436
58	3	Unbiased	109.04	111.09	2.0496
59	3	Unbiased	107.73	110.51	2.7746
60	10	Biased	108	110.87	2.8728
61	10	Biased	106.27	110.79	4.5219
62	10	Biased	107.11	110.33	3.2245
63	10	Biased	110.02	108.9	-1.1189
64	10	Biased	109.92	106.62	-3.2941
65	10	Unbiased	109.29	108.78	-0.515
66	10	Unbiased	107.55	106.8	-0.7401
67	10	Unbiased	108.91	109.47	0.558
68	10	Unbiased	109.73	107.39	-2.3418
69	10	Unbiased	108.31	109.68	1.3762
100	20	Biased	107.05	107.09	0.0421
200	20	Biased	106.99	106.58	-0.4191
300	20	Biased	109.23	108.89	-0.3407
400	20	Biased	109.04	108.87	-0.1673
500	20	Biased	108.55	108.6	0.0537
600	20	Unbiased	106.82	106.41	-0.4128
700	20	Unbiased	108.99	108.54	-0.453
800	20	Unbiased	108.76	109.01	0.2522
900	20	Unbiased	109.31	109.24	-0.0746
1000	20	Unbiased	108.66	108.17	-0.4888
1100	30	Biased	108.43	108.4	-0.0358
1200	30	Biased	108.1	108.14	0.0381
1300	30	Biased	106.79	107.21	0.4213
1400	30	Biased	108.09	107.77	-0.3165
1500	30	Biased	109.57	109.38	-0.1891
1600	30	Unbiased	108.7	108.82	0.1264
1700	30	Unbiased	109.69	109.19	-0.5033
1800	30	Unbiased	110.28	110.14	-0.1413
1900	30	Unbiased	109.38	109.19	-0.1937
2000	30	Unbiased	107.94	108.76	0.8199
2100	50	Biased-84Hr-Anneal	107.17	110.79	3.6184
2200	50	Biased-84Hr-Anneal	108.79	108.73	-0.0598
2300	50	Biased-84Hr-Anneal	108.36	107.93	-0.4358
2400	50	Biased-84Hr-Anneal	108.69	108.35	-0.3461
2500	50	Biased-84Hr-Anneal	109.51	109.61	0.0987
2600	50	Unbiased	108.64	108.47	-0.1767
2700	50	Unbiased	107.19	107.34	0.148
2800	50	Unbiased	106.33	106.53	0.1996
2900	50	Unbiased	108.11	107.66	-0.4482
3000	50	Unbiased	109.12	108.68	-0.4357
4000	100	Biased-168Hr-Anneal	107.27	106.39	-0.8835
4100	100	Biased-168Hr-Anneal	109.04	109.12	0.0836
4200	100	Biased-168Hr-Anneal	109.32	109.27	-0.0512
4300	100	Biased-168Hr-Anneal	108.19	108.22	0.0337
4400	100	Biased-168Hr-Anneal	107.58	108.16	0.5829
4500	100	Unbiased-168Hr-Anneal	109.2	109.21	0.011
4600	100	Unbiased-168Hr-Anneal	109.56	109.25	-0.308
4700	100	Unbiased-168Hr-Anneal	110.91	110.46	-0.4503
4800	100	Unbiased-168Hr-Anneal	108.86	108.73	-0.1362
4900	100	Unbiased-168Hr-Anneal	110.2	110.08	-0.121
9300	0	CORRELATION	106.92	107.09	0.1675
9400	0	CORRELATION	107.97	108.02	0.0483
9500	0	CORRELATION	108.51	108.47	-0.0357
9600	0	CORRELATION	107.41	107.37	-0.0398
9700	0	CORRELATION	107.21	107.24	0.0275

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	106.92	107.6	108.51	0.63373	107.09	107.64	108.47	0.58547	-0.0398	0.03356	0.1675	0.084221
3	106.01	107.85	109.04	1.0034	107.78	109.17	111.09	0.98328	-0.2628	1.3184	3.0325	1.1051
10	106.27	108.51	110.02	1.2803	106.62	108.96	110.87	1.5737	-3.2941	0.45435	4.5219	2.5307
20	106.82	108.34	109.31	0.98624	106.41	108.14	109.24	1.0528	-0.4888	-0.20083	0.2522	0.25922
30	106.79	108.7	110.28	1.0408	107.21	108.7	110.14	0.85152	-0.5033	0.0026	0.8199	0.38226
50	106.33	108.19	109.51	0.99666	106.53	108.41	110.79	1.1908	-0.4482	0.21624	3.6184	1.2217
100	107.27	109.01	110.91	1.1166	106.39	108.89	110.46	1.1337	-0.8835	-0.1239	0.5829	0.3813

Device Test: 24.133 FREQ|100kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE





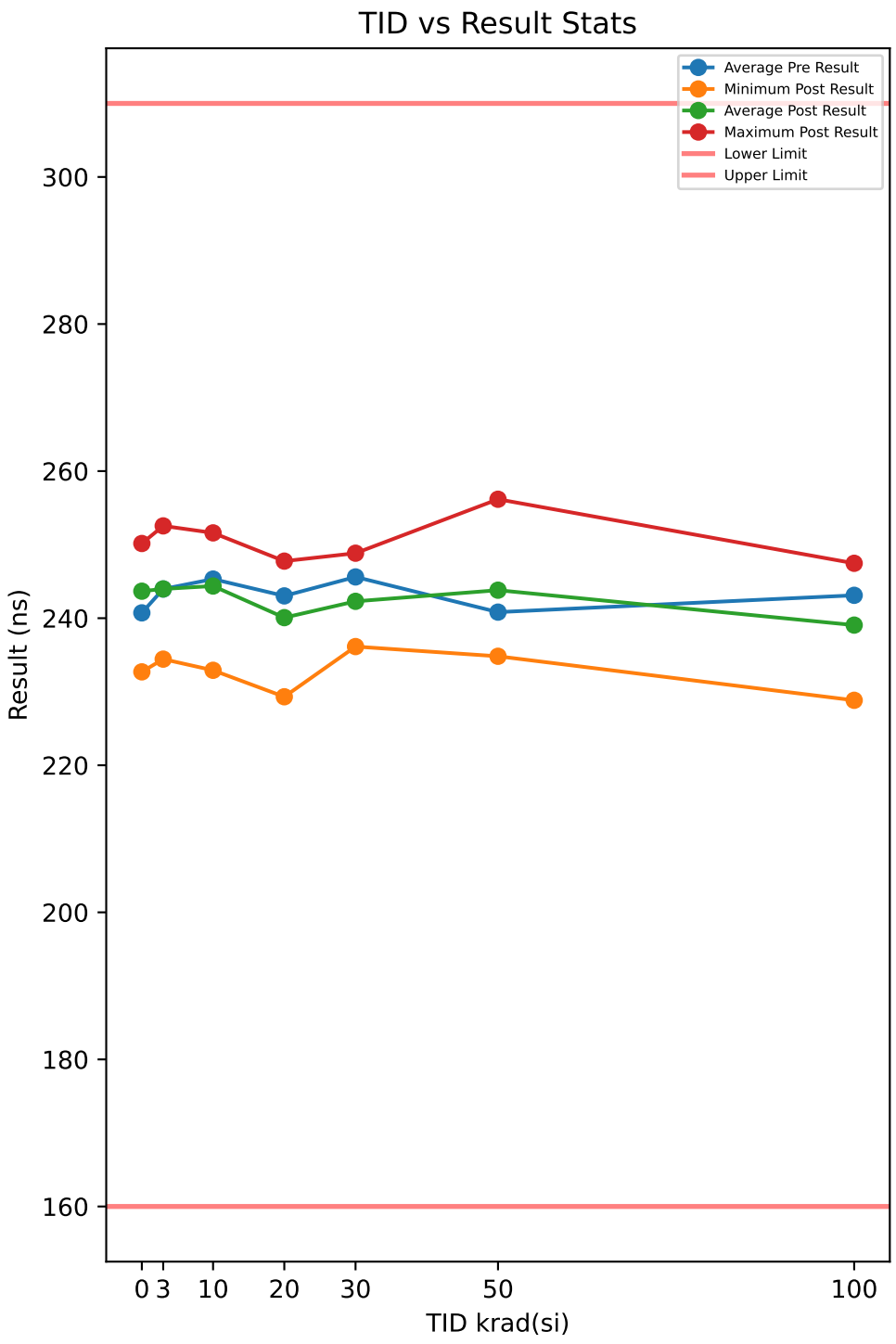
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

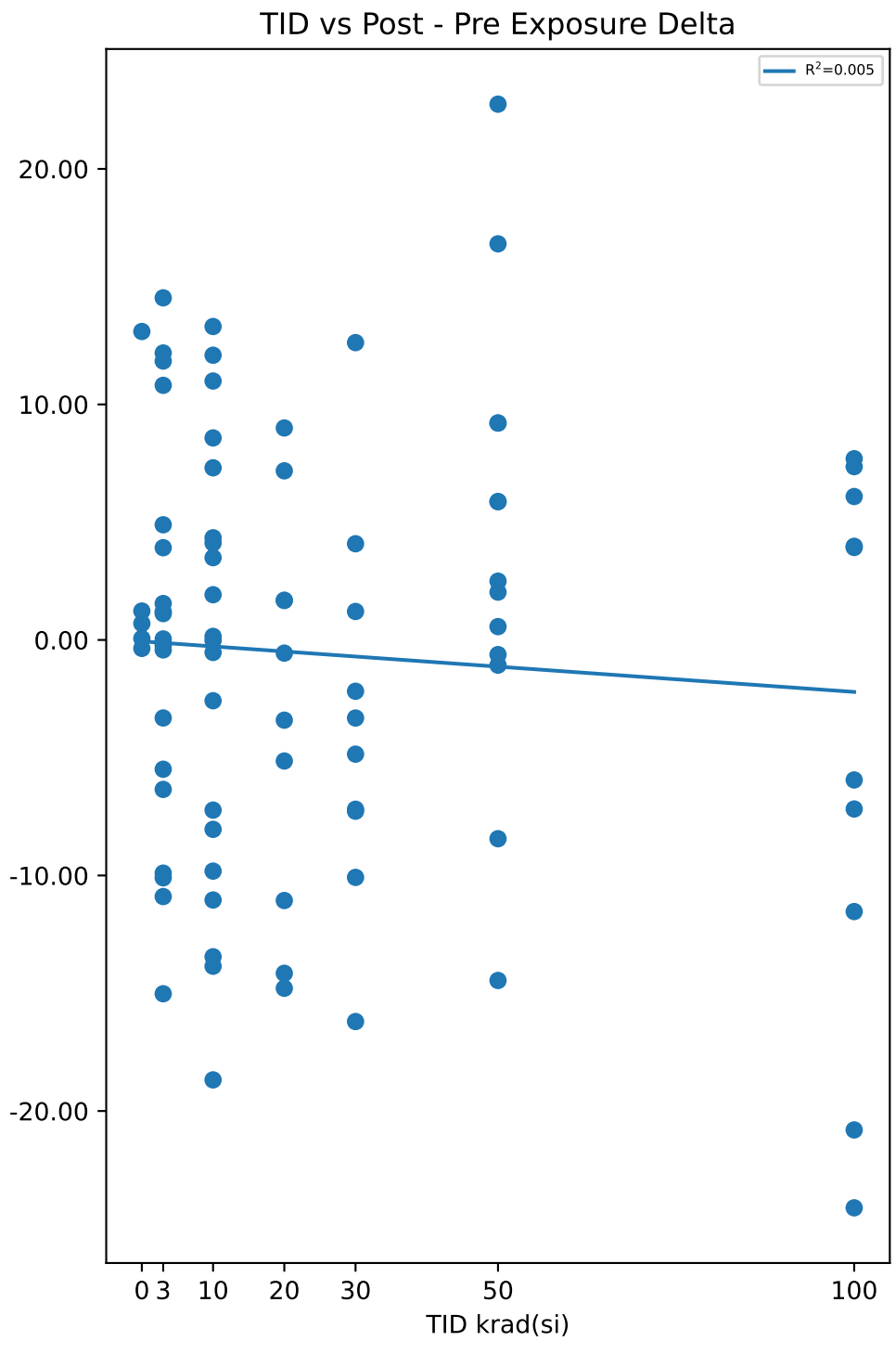
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	100	100	0
51	3	Biased	100	100	0
52	3	Biased	100	100	0
53	3	Biased	100	100	0
54	3	Biased	100	100	0
55	3	Unbiased	100	100	0
56	3	Unbiased	100	100	0
57	3	Unbiased	100	100	0
58	3	Unbiased	100	100	0
59	3	Unbiased	100	100	0
60	10	Biased	100	100	0
61	10	Biased	100	100	0
62	10	Biased	100	100	0
63	10	Biased	100	100	0
64	10	Biased	100	100	0
65	10	Unbiased	100	100	0
66	10	Unbiased	100	100	0
67	10	Unbiased	100	100	0
68	10	Unbiased	100	100	0
69	10	Unbiased	100	100	0
100	20	Biased	100	100	0
200	20	Biased	100	100	0
300	20	Biased	100	100	0
400	20	Biased	100	100	0
500	20	Biased	100	100	0
600	20	Unbiased	100	100	0
700	20	Unbiased	100	100	0
800	20	Unbiased	100	100	0
900	20	Unbiased	100	100	0
1000	20	Unbiased	100	100	0
1100	30	Biased	100	100	0
1200	30	Biased	100	100	0
1300	30	Biased	100	100	0
1400	30	Biased	100	100	0
1500	30	Biased	100	100	0
1600	30	Unbiased	100	100	0
1700	30	Unbiased	100	100	0
1800	30	Unbiased	100	100	0
1900	30	Unbiased	100	100	0
2000	30	Unbiased	100	100	0
2100	50	Biased-84Hr-Anneal	100	100	0
2200	50	Biased-84Hr-Anneal	100	100	0
2300	50	Biased-84Hr-Anneal	100	100	0
2400	50	Biased-84Hr-Anneal	100	100	0
2500	50	Biased-84Hr-Anneal	100	100	0
2600	50	Unbiased	100	100	0
2700	50	Unbiased	100	100	0
2800	50	Unbiased	100	100	0
2900	50	Unbiased	100	100	0
3000	50	Unbiased	100	100	0
4000	100	Biased-168Hr-Anneal	100	100	0
4100	100	Biased-168Hr-Anneal	100	100	0
4200	100	Biased-168Hr-Anneal	100	100	0
4300	100	Biased-168Hr-Anneal	100	100	0
4400	100	Biased-168Hr-Anneal	100	100	0
4500	100	Unbiased-168Hr-Anneal	100	100	0
4600	100	Unbiased-168Hr-Anneal	100	100	0
4700	100	Unbiased-168Hr-Anneal	100	100	0
4800	100	Unbiased-168Hr-Anneal	100	100	0
4900	100	Unbiased-168Hr-Anneal	100	100	0
9300	0	CORRELATION	100	100	0
9400	0	CORRELATION	100	100	0
9500	0	CORRELATION	100	100	0
9600	0	CORRELATION	100	100	0
9700	0	CORRELATION	100	100	0

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	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
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
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.135 TIMING|DELAY/SYNC1/14//OPEN//@SYNC1_SW_DELAY_INV





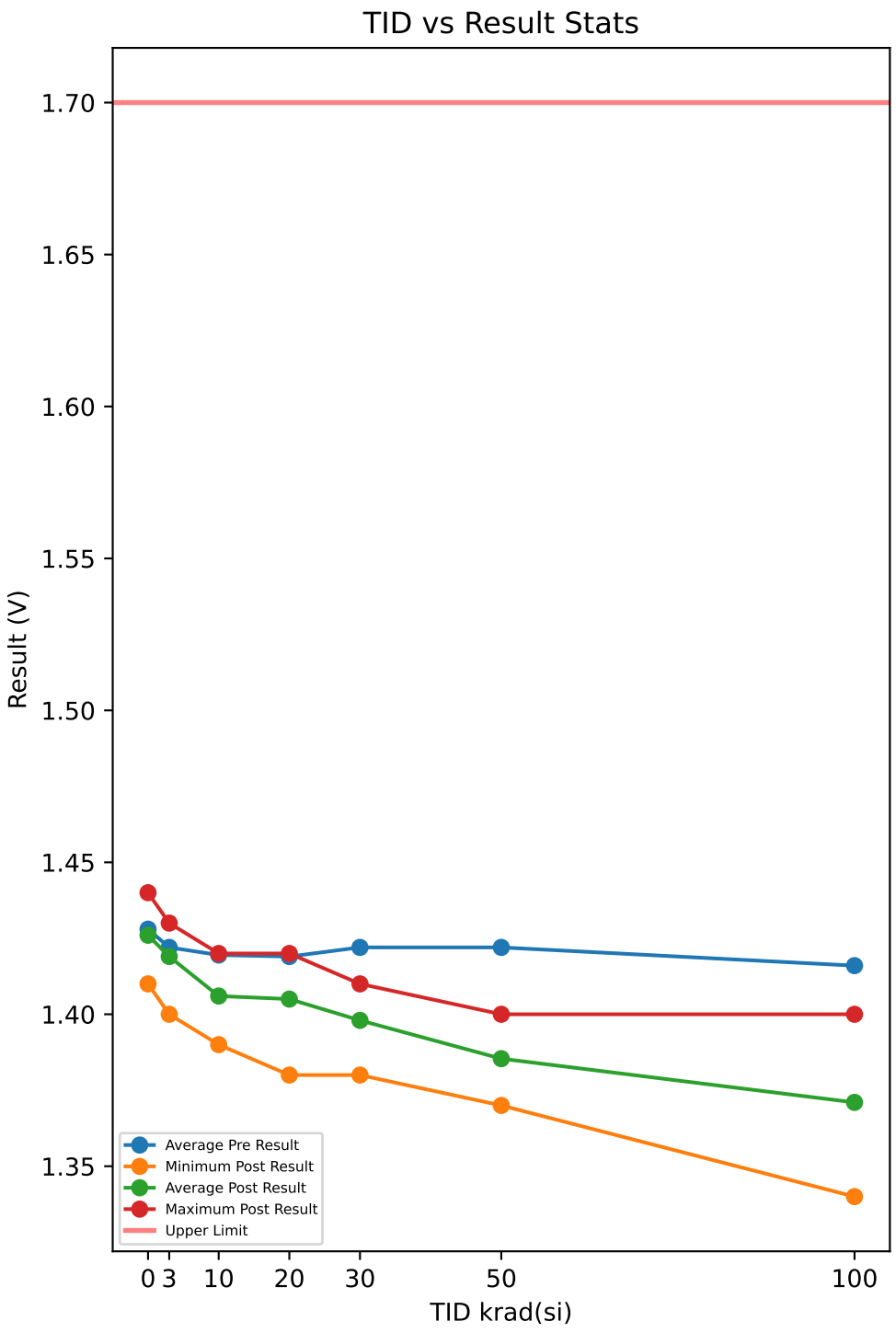
Test Results (Lower Limit = 160.0, Upper Limit = 310.0 (ns))

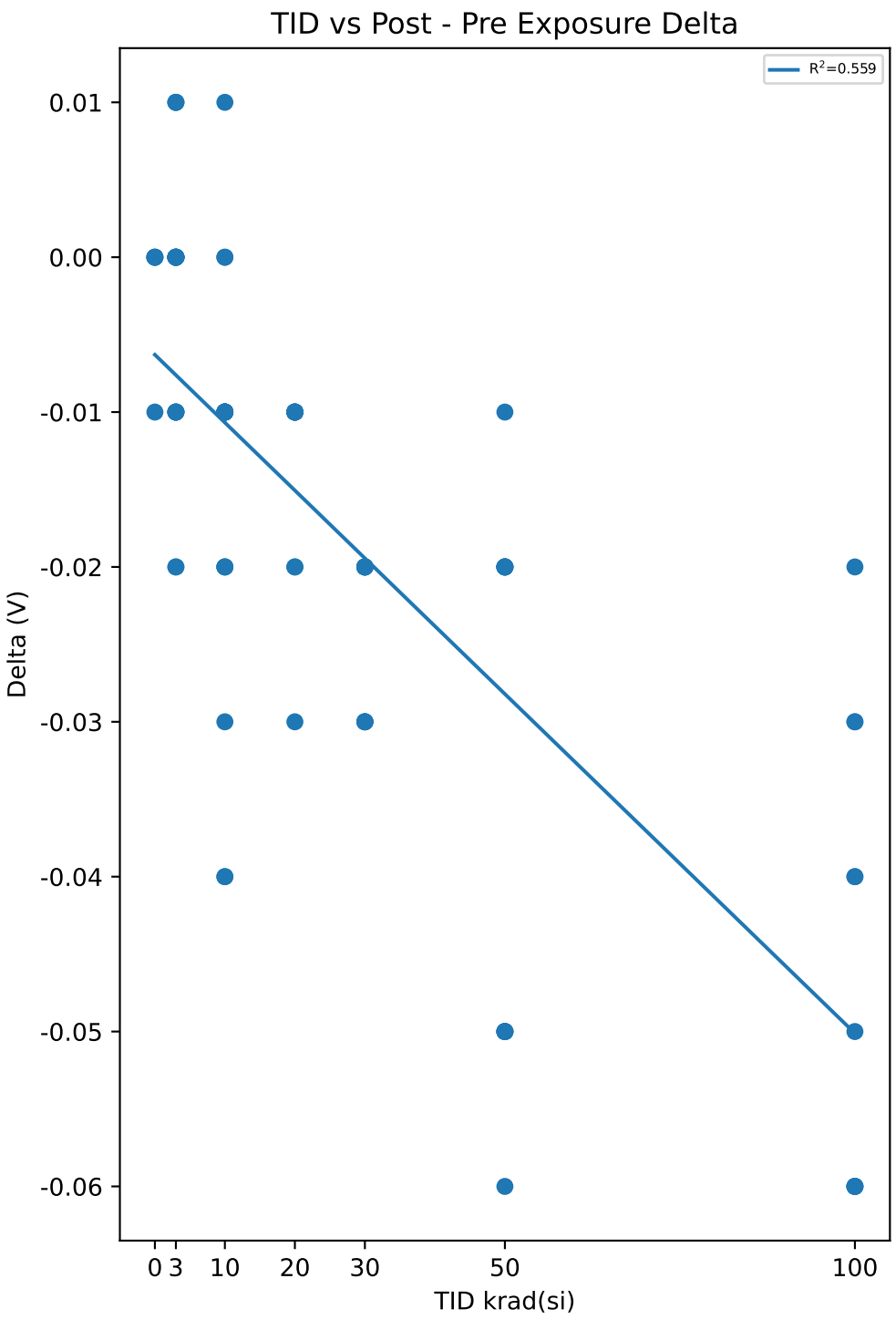
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	251.41	250.99	-0.4222
51	3	Biased	239.92	234.43	-5.489
52	3	Biased	254.53	239.5	-15.022
53	3	Biased	241.71	245.63	3.9166
54	3	Biased	246.04	250.93	4.8905
55	3	Unbiased	240.37	252.55	12.184
56	3	Unbiased	246.25	239.9	-6.3455
57	3	Unbiased	234.77	234.65	-0.1289
58	3	Unbiased	251.89	241.99	-9.9008
59	3	Unbiased	247.99	249.2	1.2013
60	10	Biased	246.77	232.91	-13.853
61	10	Biased	234.35	241.65	7.3088
62	10	Biased	254.41	246.37	-8.0414
63	10	Biased	238.29	251.6	13.308
64	10	Biased	243.87	243.84	-0.0228
65	10	Unbiased	240.04	244.15	4.118
66	10	Unbiased	258.66	239.98	-18.678
67	10	Unbiased	246.63	248.55	1.9205
68	10	Unbiased	253.39	246.17	-7.2249
69	10	Unbiased	239.9	248.48	8.5774
100	20	Biased	249.07	238.01	-11.063
200	20	Biased	247.66	232.87	-14.789
300	20	Biased	245.26	244.71	-0.5595
400	20	Biased	239.44	241.12	1.6833
500	20	Biased	227.96	229.64	1.6773
600	20	Unbiased	251.99	246.85	-5.1394
700	20	Unbiased	238.06	245.24	7.1806
800	20	Unbiased	243.47	229.31	-14.153
900	20	Unbiased	236.23	245.24	9.0007
1000	20	Unbiased	251.17	247.76	-3.4059
1100	30	Biased	245.3	238.03	-7.2714
1200	30	Biased	241.02	236.17	-4.8482
1300	30	Biased	236.14	248.76	12.624
1400	30	Biased	255.03	238.83	-16.202
1500	30	Biased	240.14	241.35	1.2094
1600	30	Unbiased	248.07	244.76	-3.3149
1700	30	Unbiased	238.32	236.14	-2.178
1800	30	Unbiased	251.49	244.3	-7.1879
1900	30	Unbiased	244.75	248.84	4.085
2000	30	Unbiased	255.83	245.75	-10.081
2100	50	Biased-84Hr-Anneal	237	246.22	9.211
2200	50	Biased-84Hr-Anneal	233.43	256.17	22.748
2300	50	Biased-84Hr-Anneal	235.1	251.92	16.819
2400	50	Biased-84Hr-Anneal	232.74	235.24	2.4961
2500	50	Biased-84Hr-Anneal	242.4	241.78	-0.6224
2600	50	Unbiased	249.28	234.82	-14.458
2700	50	Unbiased	242.59	241.52	-1.0695
2800	50	Unbiased	248.25	250.28	2.0309
2900	50	Unbiased	235.75	236.31	0.5666
3000	50	Unbiased	251.7	243.26	-8.4388
4000	100	Biased-168Hr-Anneal	232.23	236.16	3.9262
4100	100	Biased-168Hr-Anneal	255.66	234.85	-20.803
4200	100	Biased-168Hr-Anneal	234.88	238.85	3.9768
4300	100	Biased-168Hr-Anneal	253.67	246.49	-7.1777
4400	100	Biased-168Hr-Anneal	241.37	247.46	6.0902
4500	100	Unbiased-168Hr-Anneal	234.63	241.99	7.3583
4600	100	Unbiased-168Hr-Anneal	258.47	246.94	-11.532
4700	100	Unbiased-168Hr-Anneal	231.28	238.97	7.6947
4800	100	Unbiased-168Hr-Anneal	234.78	228.83	-5.944
4900	100	Unbiased-168Hr-Anneal	254.14	230.03	-24.11
9300	0	CORRELATION	237.06	250.16	13.096
9400	0	CORRELATION	247.78	247.42	-0.3585
9500	0	CORRELATION	231.47	232.7	1.2278
9600	0	CORRELATION	244.43	245.13	0.7008
9700	0	CORRELATION	242.88	242.95	0.0631

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	231.47	240.72	247.78	6.4642	232.7	243.67	250.16	6.692	-0.3585	2.9459	13.096	5.7064
3	234.77	245.49	254.53	6.2468	234.43	243.98	252.55	6.8292	-15.022	-1.5116	12.184	7.8921
10	234.35	245.63	258.66	7.873	232.91	244.37	251.6	5.2918	-18.678	-1.2587	13.308	10.363
20	227.96	243.03	251.99	7.6041	229.31	240.07	247.76	7.1612	-14.789	-2.9568	9.0007	8.3702
30	236.14	245.61	255.83	6.9012	236.14	242.29	248.84	4.8665	-16.202	-3.3165	12.624	7.996
50	232.74	240.82	251.7	7.0203	234.82	243.75	256.17	7.3521	-14.458	2.9283	22.748	11.015
100	231.28	243.11	258.47	11.04	228.83	239.06	247.46	6.7395	-24.11	-4.0521	7.6947	11.792

Device Test: 24.136 THRESHOLD|RISE/SYNC1/14//OPEN//@SYNC1_VIH





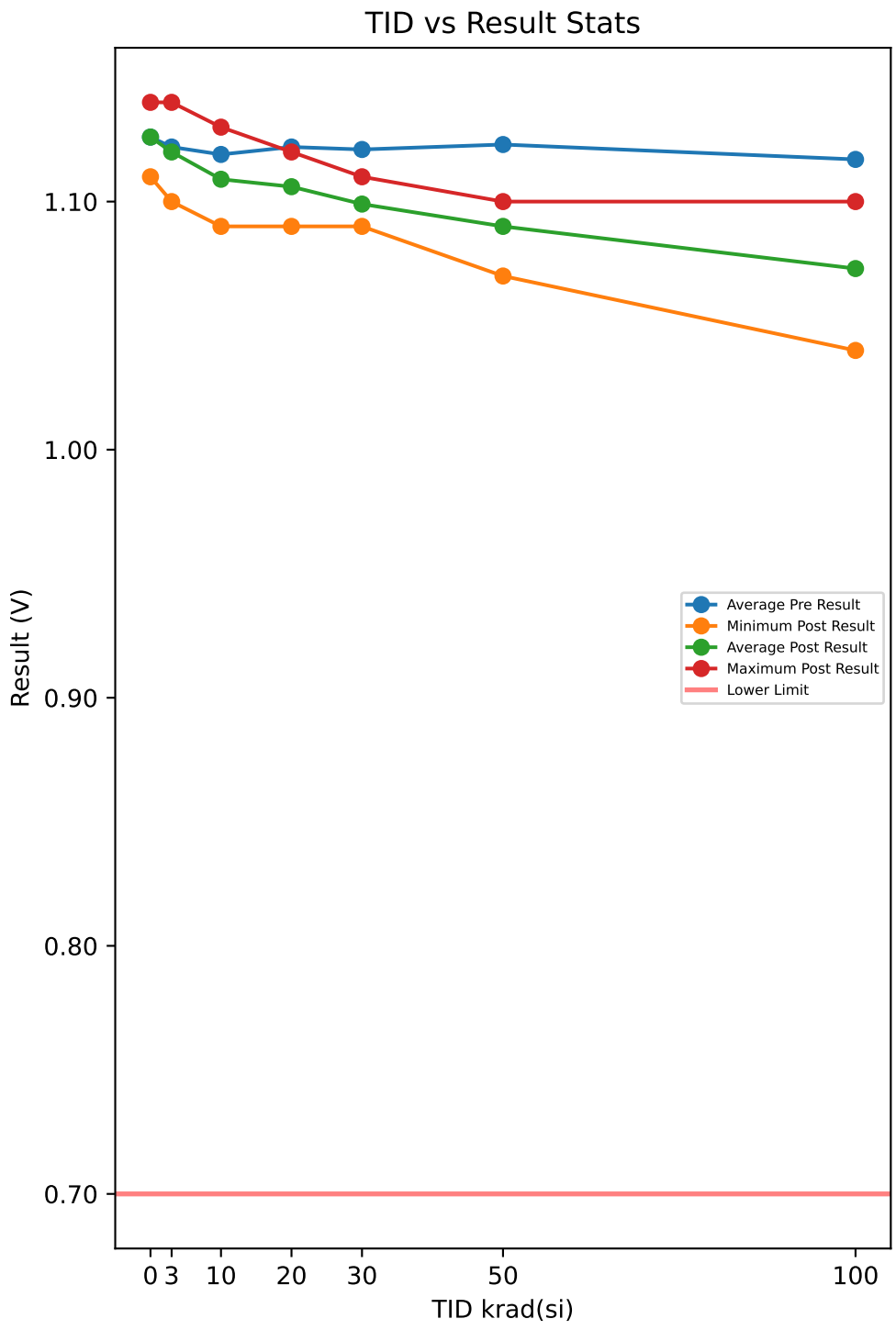
Test Results (Upper Limit = 1.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.41	1.42	0.01
51	3	Biased	1.43	1.43	0
52	3	Biased	1.42	1.43	0.01
53	3	Biased	1.41	1.42	0.01
54	3	Biased	1.42	1.4	-0.02
55	3	Unbiased	1.43	1.42	-0.01
56	3	Unbiased	1.43	1.42	-0.01
57	3	Unbiased	1.42	1.42	0
58	3	Unbiased	1.44	1.42	-0.02
59	3	Unbiased	1.41	1.41	0
60	10	Biased	1.44	1.4	-0.04
61	10	Biased	1.43	1.39	-0.04
62	10	Biased	1.43	1.4	-0.03
63	10	Biased	1.4	1.4	0
64	10	Biased	1.43	1.42	-0.01
65	10	Unbiased	1.41	1.42	0.01
66	10	Unbiased	1.43	1.42	-0.01
67	10	Unbiased	1.42	1.4	-0.02
68	10	Unbiased	1.42	1.41	-0.01
69	10	Unbiased	1.42	1.4	-0.02
100	20	Biased	1.41	1.4	-0.01
200	20	Biased	1.42	1.41	-0.01
300	20	Biased	1.41	1.4	-0.01
400	20	Biased	1.42	1.41	-0.01
500	20	Biased	1.42	1.41	-0.01
600	20	Unbiased	1.43	1.42	-0.01
700	20	Unbiased	1.41	1.38	-0.03
800	20	Unbiased	1.42	1.41	-0.01
900	20	Unbiased	1.42	1.4	-0.02
1000	20	Unbiased	1.43	1.41	-0.02
1100	30	Biased	1.42	1.4	-0.02
1200	30	Biased	1.43	1.41	-0.02
1300	30	Biased	1.42	1.4	-0.02
1400	30	Biased	1.42	1.4	-0.02
1500	30	Biased	1.43	1.41	-0.02
1600	30	Unbiased	1.43	1.4	-0.03
1700	30	Unbiased	1.42	1.39	-0.03
1800	30	Unbiased	1.42	1.39	-0.03
1900	30	Unbiased	1.41	1.38	-0.03
2000	30	Unbiased	1.42	1.4	-0.02
2100	50	Biased-84Hr-Anneal	1.41	1.39	-0.02
2200	50	Biased-84Hr-Anneal	1.44	1.39	-0.05
2300	50	Biased-84Hr-Anneal	1.42	1.4	-0.02
2400	50	Biased-84Hr-Anneal	1.41	1.39	-0.02
2500	50	Biased-84Hr-Anneal	1.4	1.39	-0.01
2600	50	Unbiased	1.42	1.37	-0.05
2700	50	Unbiased	1.43	1.37	-0.06
2800	50	Unbiased	1.43	1.38	-0.05
2900	50	Unbiased	1.43	1.38	-0.05
3000	50	Unbiased	1.43	1.38	-0.05
4000	100	Biased-168Hr-Anneal	1.42	1.38	-0.04
4100	100	Biased-168Hr-Anneal	1.4	1.38	-0.02
4200	100	Biased-168Hr-Anneal	1.43	1.4	-0.03
4300	100	Biased-168Hr-Anneal	1.42	1.38	-0.04
4400	100	Biased-168Hr-Anneal	1.42	1.39	-0.03
4500	100	Unbiased-168Hr-Anneal	1.43	1.37	-0.06
4600	100	Unbiased-168Hr-Anneal	1.41	1.35	-0.06
4700	100	Unbiased-168Hr-Anneal	1.4	1.34	-0.06
4800	100	Unbiased-168Hr-Anneal	1.41	1.35	-0.06
4900	100	Unbiased-168Hr-Anneal	1.42	1.37	-0.05
9300	0	CORRELATION	1.42	1.41	-0.01
9400	0	CORRELATION	1.43	1.43	0
9500	0	CORRELATION	1.44	1.44	0
9600	0	CORRELATION	1.42	1.42	0
9700	0	CORRELATION	1.43	1.43	0

Test Statistics (V)

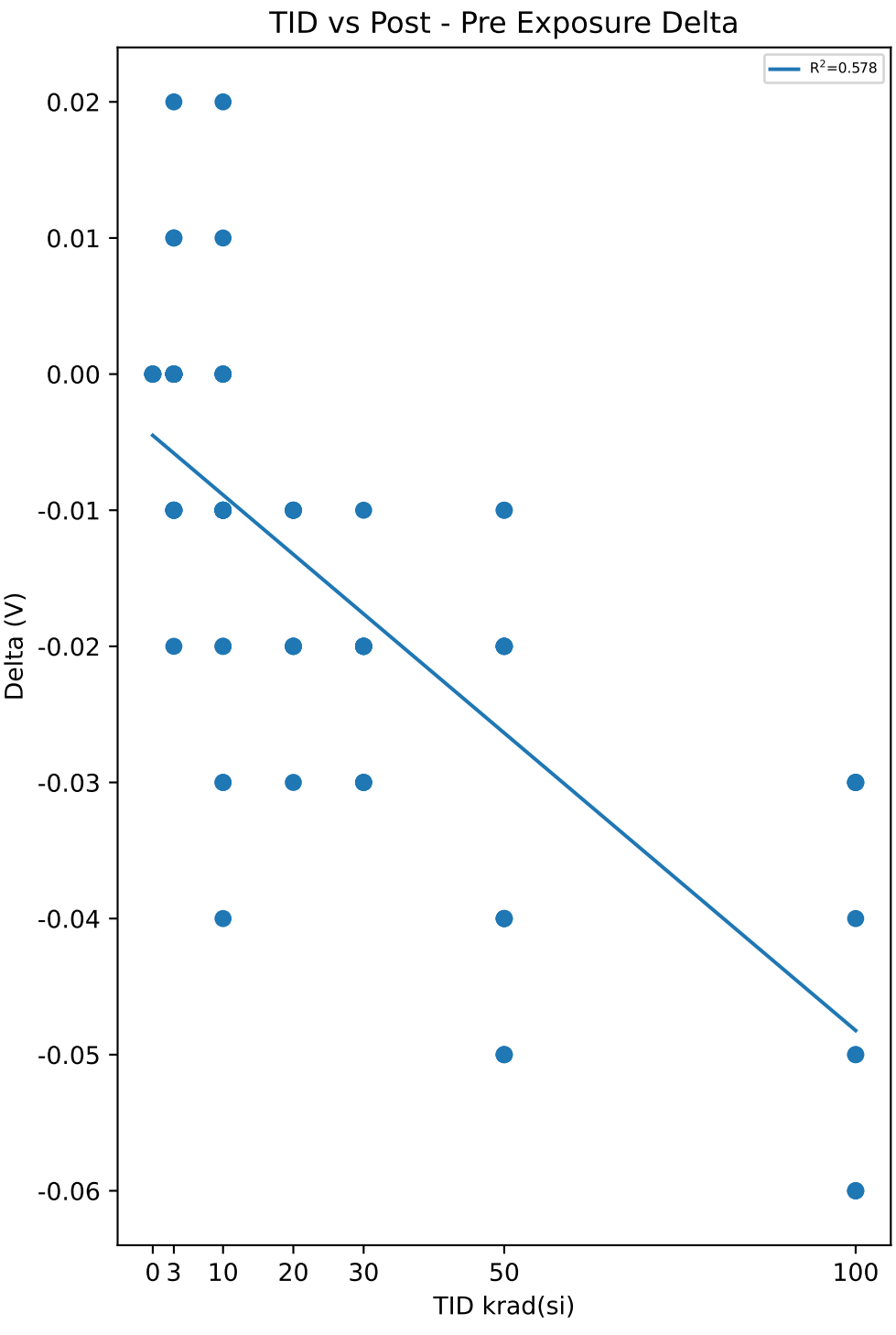
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.42	1.428	1.44	0.0083666	1.41	1.426	1.44	0.011402	-0.01	-0.002	0	0.0044721
3	1.41	1.422	1.44	0.010328	1.4	1.419	1.43	0.008756	-0.02	-0.003	0.01	0.011595
10	1.4	1.423	1.44	0.011595	1.39	1.406	1.42	0.01075	-0.04	-0.017	0.01	0.016364
20	1.41	1.419	1.43	0.0073786	1.38	1.405	1.42	0.010801	-0.03	-0.014	-0.01	0.0069921
30	1.41	1.422	1.43	0.0063246	1.38	1.398	1.41	0.0091894	-0.03	-0.024	-0.02	0.005164
50	1.4	1.422	1.44	0.012293	1.37	1.384	1.4	0.0096609	-0.06	-0.038	-0.01	0.018135
100	1.4	1.416	1.43	0.01075	1.34	1.371	1.4	0.01912	-0.06	-0.045	-0.02	0.015092

Device Test: 24.137 THRESHOLD|FALL/SYNC1/14//OPEN//@SYNC1_VIL



Test Results (Lower Limit = 0.7 (V))

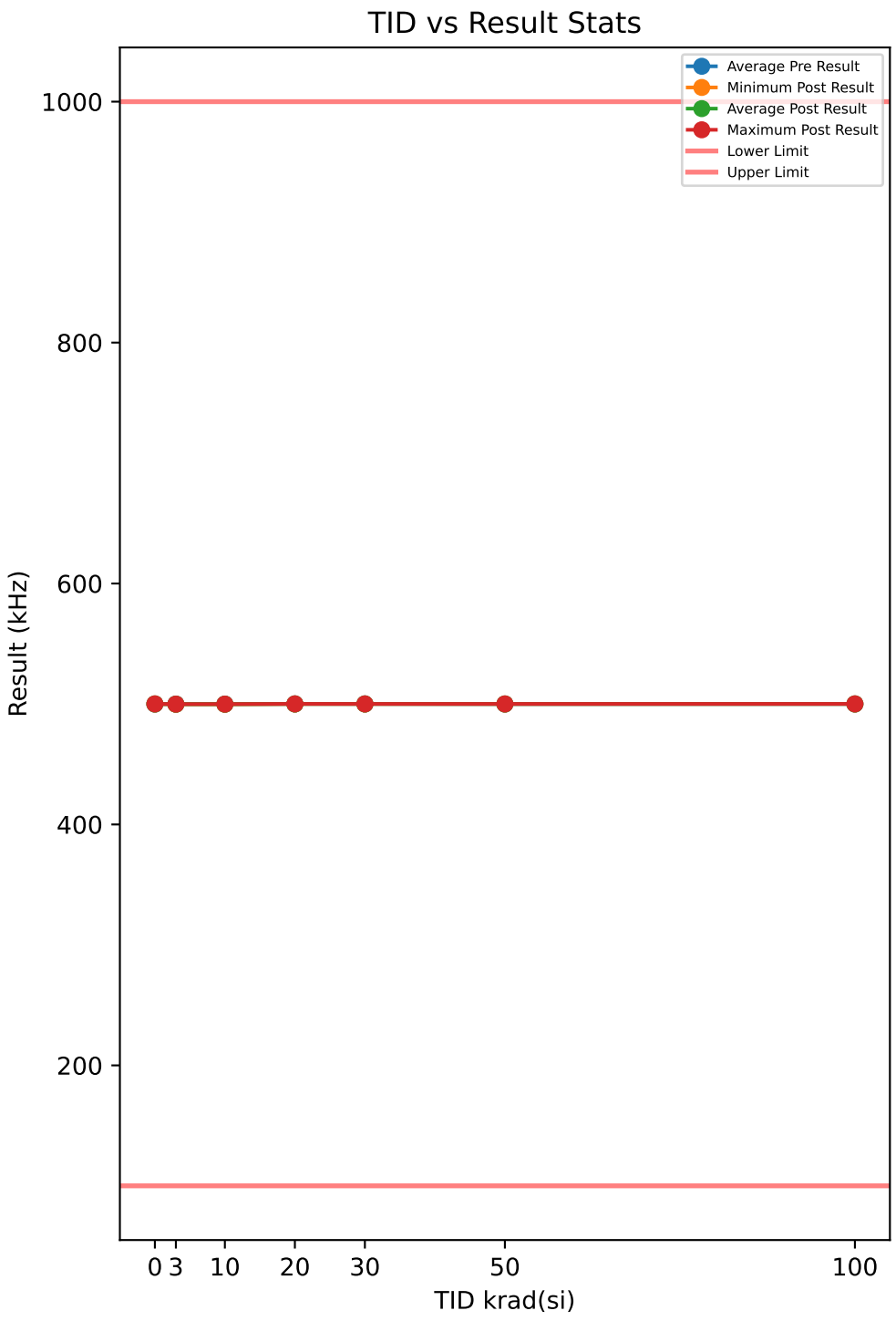
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.11	1.12	0.01
51	3	Biased	1.13	1.12	-0.01
52	3	Biased	1.12	1.14	0.02
53	3	Biased	1.11	1.12	0.01
54	3	Biased	1.12	1.1	-0.02
55	3	Unbiased	1.13	1.12	-0.01
56	3	Unbiased	1.13	1.12	-0.01
57	3	Unbiased	1.12	1.12	0
58	3	Unbiased	1.14	1.13	-0.01
59	3	Unbiased	1.11	1.11	0
60	10	Biased	1.14	1.11	-0.03
61	10	Biased	1.13	1.09	-0.04
62	10	Biased	1.13	1.1	-0.03
63	10	Biased	1.1	1.1	0
64	10	Biased	1.13	1.12	-0.01
65	10	Unbiased	1.11	1.13	0.02
66	10	Unbiased	1.12	1.12	0
67	10	Unbiased	1.12	1.1	-0.02
68	10	Unbiased	1.11	1.12	0.01
69	10	Unbiased	1.12	1.1	-0.02
100	20	Biased	1.11	1.1	-0.01
200	20	Biased	1.12	1.11	-0.01
300	20	Biased	1.11	1.1	-0.01
400	20	Biased	1.12	1.11	-0.01
500	20	Biased	1.12	1.11	-0.01
600	20	Unbiased	1.14	1.12	-0.02
700	20	Unbiased	1.11	1.09	-0.02
800	20	Unbiased	1.13	1.11	-0.02
900	20	Unbiased	1.13	1.1	-0.03
1000	20	Unbiased	1.13	1.11	-0.02
1100	30	Biased	1.11	1.1	-0.01
1200	30	Biased	1.13	1.11	-0.02
1300	30	Biased	1.12	1.1	-0.02
1400	30	Biased	1.12	1.1	-0.02
1500	30	Biased	1.13	1.11	-0.02
1600	30	Unbiased	1.13	1.1	-0.03
1700	30	Unbiased	1.12	1.09	-0.03
1800	30	Unbiased	1.12	1.09	-0.03
1900	30	Unbiased	1.11	1.09	-0.02
2000	30	Unbiased	1.12	1.1	-0.02
2100	50	Biased-84Hr-Anneal	1.11	1.1	-0.01
2200	50	Biased-84Hr-Anneal	1.14	1.1	-0.04
2300	50	Biased-84Hr-Anneal	1.12	1.1	-0.02
2400	50	Biased-84Hr-Anneal	1.11	1.09	-0.02
2500	50	Biased-84Hr-Anneal	1.11	1.09	-0.02
2600	50	Unbiased	1.12	1.07	-0.05
2700	50	Unbiased	1.12	1.08	-0.04
2800	50	Unbiased	1.13	1.08	-0.05
2900	50	Unbiased	1.14	1.09	-0.05
3000	50	Unbiased	1.13	1.09	-0.04
4000	100	Biased-168Hr-Anneal	1.12	1.09	-0.03
4100	100	Biased-168Hr-Anneal	1.11	1.08	-0.03
4200	100	Biased-168Hr-Anneal	1.13	1.1	-0.03
4300	100	Biased-168Hr-Anneal	1.12	1.08	-0.04
4400	100	Biased-168Hr-Anneal	1.12	1.09	-0.03
4500	100	Unbiased-168Hr-Anneal	1.13	1.07	-0.06
4600	100	Unbiased-168Hr-Anneal	1.11	1.05	-0.06
4700	100	Unbiased-168Hr-Anneal	1.1	1.04	-0.06
4800	100	Unbiased-168Hr-Anneal	1.11	1.06	-0.05
4900	100	Unbiased-168Hr-Anneal	1.12	1.07	-0.05
9300	0	CORRELATION	1.11	1.11	0
9400	0	CORRELATION	1.13	1.13	0
9500	0	CORRELATION	1.14	1.14	0
9600	0	CORRELATION	1.12	1.12	0
9700	0	CORRELATION	1.13	1.13	0

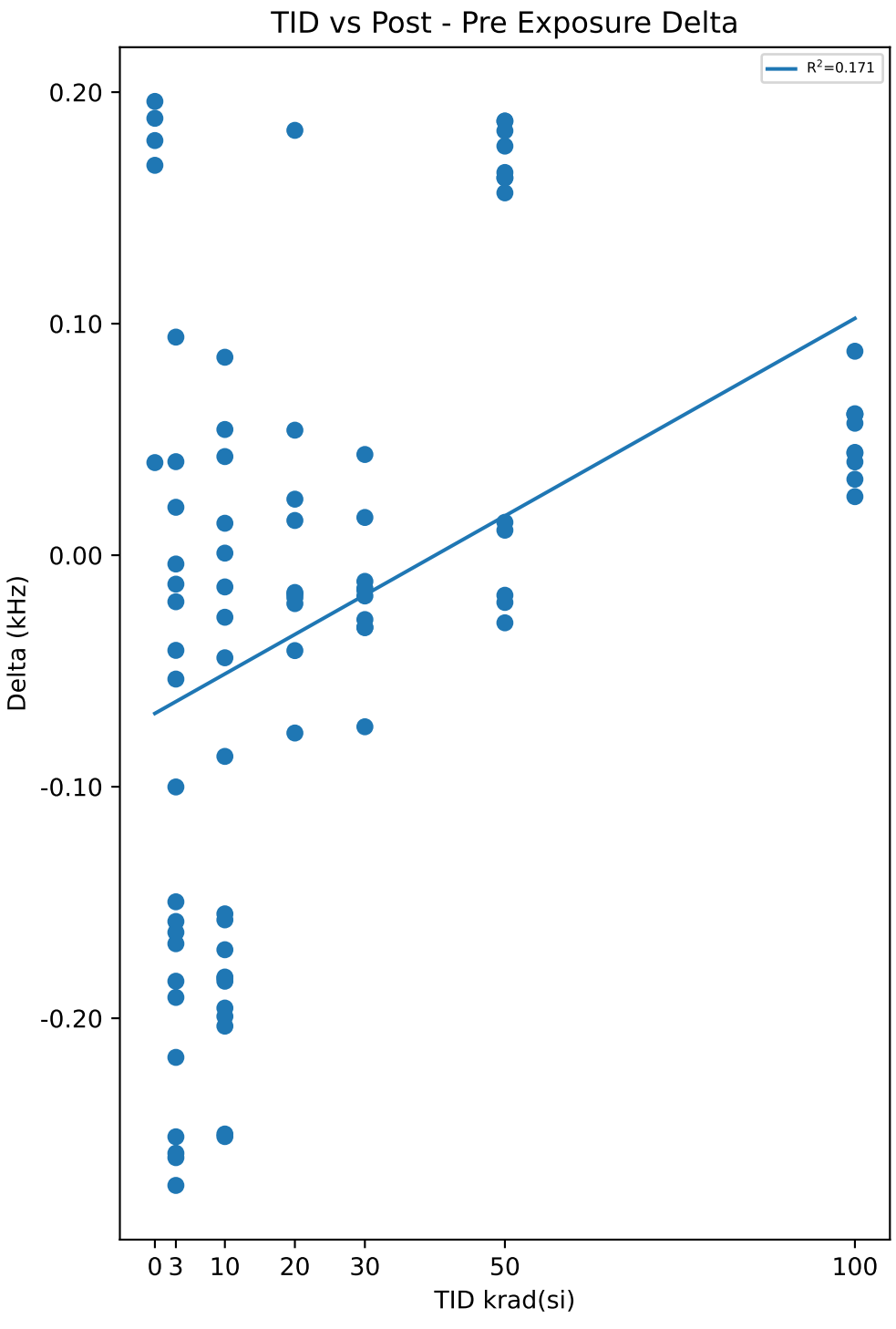


Test Statistics (V)

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	1.11	1.126	1.14	0.011402	1.11	1.126	1.14	0.011402	0	0	0	0
3	1.11	1.122	1.14	0.010328	1.1	1.12	1.14	0.010541	-0.02	-0.002	0.02	0.012293
10	1.1	1.121	1.14	0.011972	1.09	1.109	1.13	0.012867	-0.04	-0.012	0.02	0.019322
20	1.11	1.122	1.14	0.010328	1.09	1.106	1.12	0.0084327	-0.03	-0.016	-0.01	0.0069921
30	1.11	1.121	1.13	0.0073786	1.09	1.099	1.11	0.0073786	-0.03	-0.022	-0.01	0.0063246
50	1.11	1.123	1.14	0.011595	1.07	1.089	1.1	0.0099443	-0.05	-0.034	-0.01	0.015055
100	1.1	1.117	1.13	0.0094868	1.04	1.073	1.1	0.018886	-0.06	-0.044	-0.03	0.013499

Device Test: 24.138 FREQ|500kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE





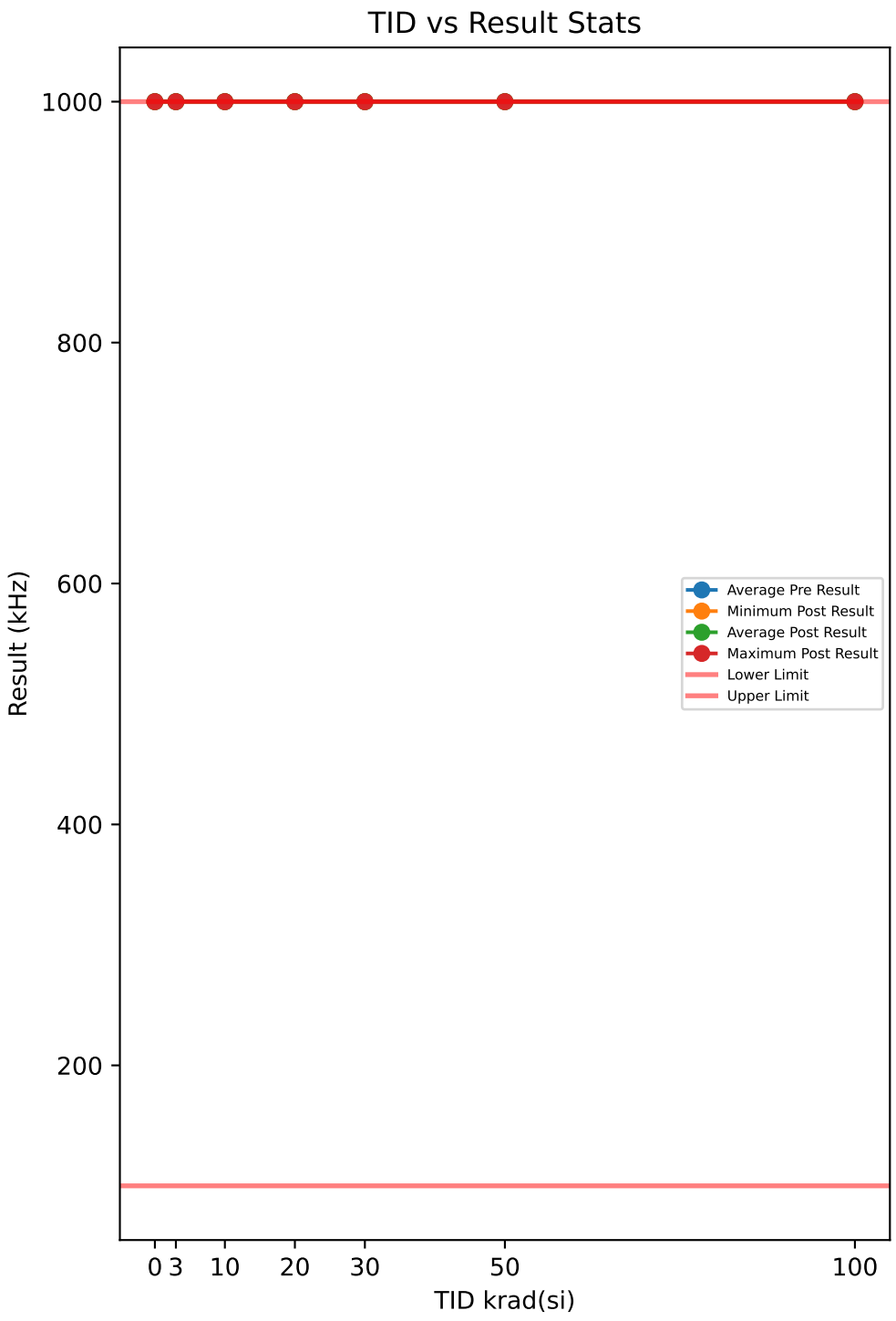
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

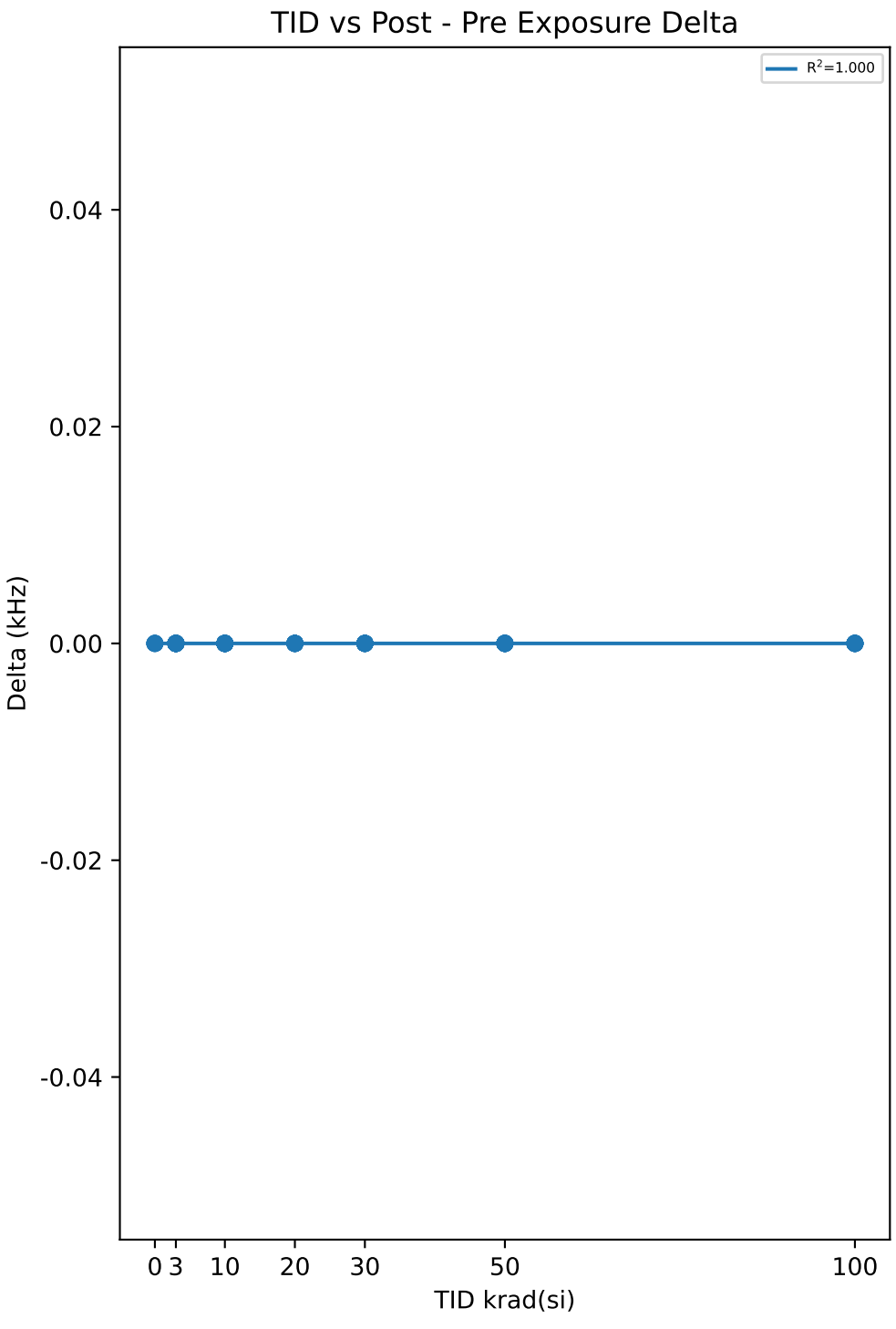
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	500.06	499.79	-0.2722
51	3	Biased	500.05	499.88	-0.1678
52	3	Biased	500.02	499.86	-0.1629
53	3	Biased	499.99	499.84	-0.1497
54	3	Biased	500.07	499.81	-0.2602
55	3	Unbiased	500.03	499.84	-0.191
56	3	Unbiased	500.03	499.81	-0.2169
57	3	Unbiased	500.01	499.83	-0.184
58	3	Unbiased	500.06	499.8	-0.2583
59	3	Unbiased	500.04	499.79	-0.2512
60	10	Biased	500.04	499.85	-0.1827
61	10	Biased	500.02	499.84	-0.184
62	10	Biased	500.05	499.8	-0.25
63	10	Biased	500.03	499.85	-0.1822
64	10	Biased	500.01	499.81	-0.1992
65	10	Unbiased	500.02	499.81	-0.2034
66	10	Unbiased	500.05	499.9	-0.1575
67	10	Unbiased	500.04	499.79	-0.2511
68	10	Unbiased	500.03	499.86	-0.1704
69	10	Unbiased	500.02	499.82	-0.1956
100	20	Biased	499.85	500.04	0.1835
200	20	Biased	500.05	500.01	-0.0412
300	20	Biased	500.07	500.05	-0.0161
400	20	Biased	500.06	500.04	-0.0183
500	20	Biased	500.02	500.04	0.0242
600	20	Unbiased	500.06	500.03	-0.0209
700	20	Unbiased	500.03	500.04	0.015
800	20	Unbiased	500.08	500	-0.0768
900	20	Unbiased	500.03	500.09	0.054
1000	20	Unbiased	500.05	500.03	-0.0168
1100	30	Biased	500.04	500.01	-0.0313
1200	30	Biased	500.04	500.03	-0.0113
1300	30	Biased	500.02	500.03	0.0163
1400	30	Biased	500.05	500.03	-0.0176
1500	30	Biased	500.04	500.03	-0.0143
1600	30	Unbiased	500.01	500.05	0.0435
1700	30	Unbiased	500.06	500.03	-0.0278
1800	30	Unbiased	500.06	500.04	-0.0151
1900	30	Unbiased	500.08	500.01	-0.0741
2000	30	Unbiased	500.04	500.01	-0.0311
2100	50	Biased-84Hr-Anneal	499.84	500.03	0.1875
2200	50	Biased-84Hr-Anneal	499.85	500.04	0.1833
2300	50	Biased-84Hr-Anneal	499.84	500.02	0.1767
2400	50	Biased-84Hr-Anneal	499.83	499.99	0.1565
2500	50	Biased-84Hr-Anneal	499.86	500.02	0.1653
2600	50	Unbiased	500.05	500.02	-0.0292
2700	50	Unbiased	500.03	500.04	0.0142
2800	50	Unbiased	500.04	500.03	-0.0173
2900	50	Unbiased	500	500.01	0.0108
3000	50	Unbiased	500.05	500.03	-0.0204
4000	100	Biased-168Hr-Anneal	500.02	500.06	0.0403
4100	100	Biased-168Hr-Anneal	499.98	500.02	0.0328
4200	100	Biased-168Hr-Anneal	499.98	500.03	0.0444
4300	100	Biased-168Hr-Anneal	499.98	500.06	0.0881
4400	100	Biased-168Hr-Anneal	500.01	500.06	0.0441
4500	100	Unbiased-168Hr-Anneal	499.98	500.04	0.0611
4600	100	Unbiased-168Hr-Anneal	500.01	500.07	0.0609
4700	100	Unbiased-168Hr-Anneal	499.98	500.03	0.057
4800	100	Unbiased-168Hr-Anneal	500.01	500.03	0.0253
4900	100	Unbiased-168Hr-Anneal	499.96	500.02	0.0608
9300	0	CORRELATION	500.02	500.06	0.04
9400	0	CORRELATION	499.85	500.02	0.1684
9500	0	CORRELATION	499.82	500	0.1791
9600	0	CORRELATION	499.88	500.08	0.196
9700	0	CORRELATION	499.86	500.05	0.1887

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	499.82	499.89	500.02	0.076195	500	500.04	500.08	0.031234	0.04	0.15444	0.196	0.064808
3	499.99	500.04	500.07	0.022422	499.79	499.82	499.88	0.031894	-0.2722	-0.21142	-0.1497	0.04609
10	500.01	500.03	500.05	0.014737	499.79	499.83	499.9	0.032201	-0.2511	-0.19761	-0.1575	0.030984
20	499.85	500.03	500.08	0.063413	500	500.04	500.09	0.023836	-0.0768	0.00866	0.1835	0.071148
30	500.01	500.04	500.08	0.021714	500.01	500.03	500.05	0.012837	-0.0741	-0.01628	0.0435	0.030891
50	499.83	499.94	500.05	0.10056	499.99	500.02	500.04	0.015787	-0.0292	0.08274	0.1875	0.097309
100	499.96	499.99	500.02	0.019254	500.02	500.04	500.07	0.018778	0.0253	0.05148	0.0881	0.017962

Device Test: 24.139 FREQ|1000kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE





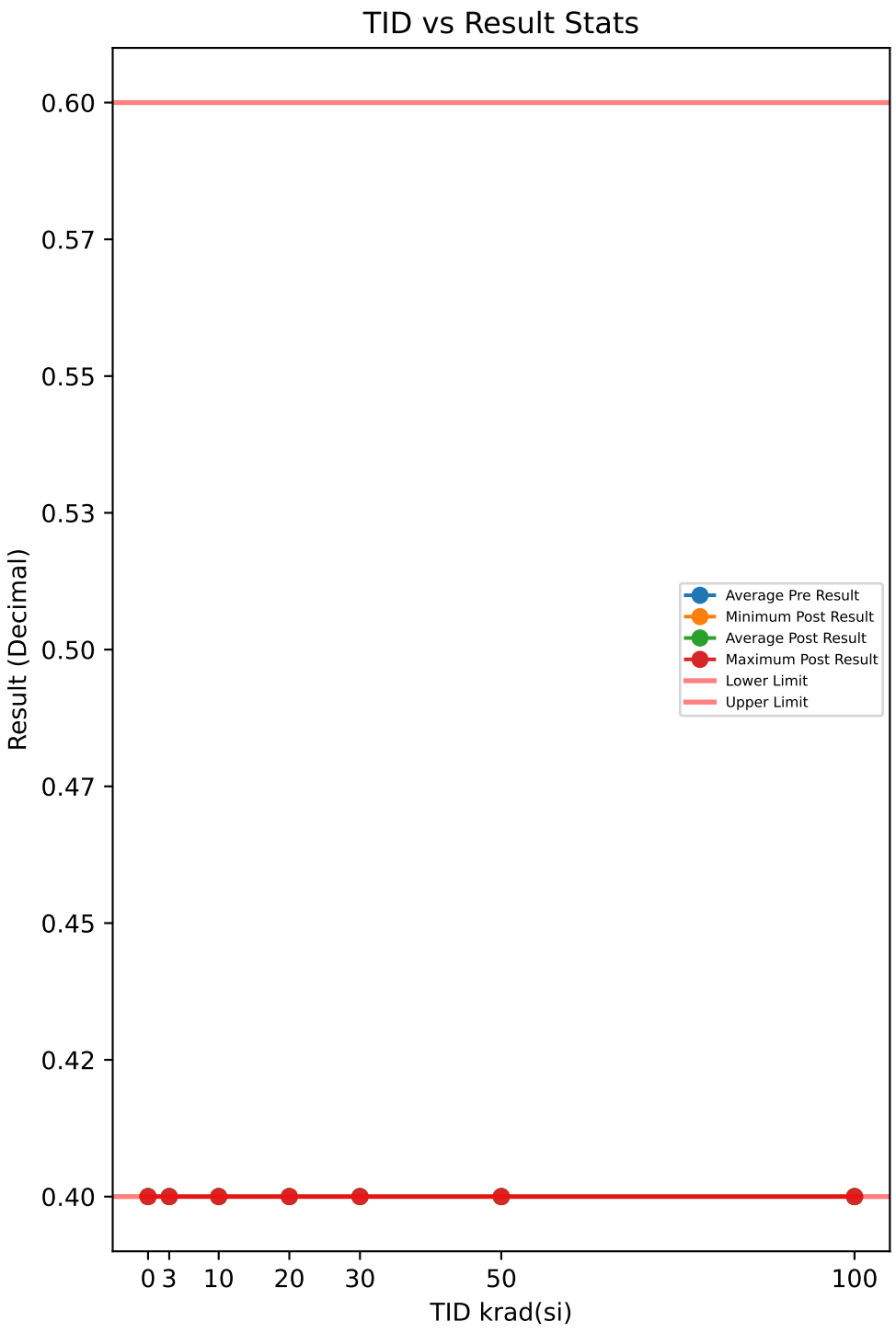
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1000	1000	0
51	3	Biased	1000	1000	0
52	3	Biased	1000	1000	0
53	3	Biased	1000	1000	0
54	3	Biased	1000	1000	0
55	3	Unbiased	1000	1000	0
56	3	Unbiased	1000	1000	0
57	3	Unbiased	1000	1000	0
58	3	Unbiased	1000	1000	0
59	3	Unbiased	1000	1000	0
60	10	Biased	1000	1000	0
61	10	Biased	1000	1000	0
62	10	Biased	1000	1000	0
63	10	Biased	1000	1000	0
64	10	Biased	1000	1000	0
65	10	Unbiased	1000	1000	0
66	10	Unbiased	1000	1000	0
67	10	Unbiased	1000	1000	0
68	10	Unbiased	1000	1000	0
69	10	Unbiased	1000	1000	0
100	20	Biased	1000	1000	0
200	20	Biased	1000	1000	0
300	20	Biased	1000	1000	0
400	20	Biased	1000	1000	0
500	20	Biased	1000	1000	0
600	20	Unbiased	1000	1000	0
700	20	Unbiased	1000	1000	0
800	20	Unbiased	1000	1000	0
900	20	Unbiased	1000	1000	0
1000	20	Unbiased	1000	1000	0
1100	30	Biased	1000	1000	0
1200	30	Biased	1000	1000	0
1300	30	Biased	1000	1000	0
1400	30	Biased	1000	1000	0
1500	30	Biased	1000	1000	0
1600	30	Unbiased	1000	1000	0
1700	30	Unbiased	1000	1000	0
1800	30	Unbiased	1000	1000	0
1900	30	Unbiased	1000	1000	0
2000	30	Unbiased	1000	1000	0
2100	50	Biased-84Hr-Anneal	1000	1000	0
2200	50	Biased-84Hr-Anneal	1000	1000	0
2300	50	Biased-84Hr-Anneal	1000	1000	0
2400	50	Biased-84Hr-Anneal	1000	1000	0
2500	50	Biased-84Hr-Anneal	1000	1000	0
2600	50	Unbiased	1000	1000	0
2700	50	Unbiased	1000	1000	0
2800	50	Unbiased	1000	1000	0
2900	50	Unbiased	1000	1000	0
3000	50	Unbiased	1000	1000	0
4000	100	Biased-168Hr-Anneal	1000	1000	0
4100	100	Biased-168Hr-Anneal	1000	1000	0
4200	100	Biased-168Hr-Anneal	1000	1000	0
4300	100	Biased-168Hr-Anneal	1000	1000	0
4400	100	Biased-168Hr-Anneal	1000	1000	0
4500	100	Unbiased-168Hr-Anneal	1000	1000	0
4600	100	Unbiased-168Hr-Anneal	1000	1000	0
4700	100	Unbiased-168Hr-Anneal	1000	1000	0
4800	100	Unbiased-168Hr-Anneal	1000	1000	0
4900	100	Unbiased-168Hr-Anneal	1000	1000	0
9300	0	CORRELATION	1000	1000	0
9400	0	CORRELATION	1000	1000	0
9500	0	CORRELATION	1000	1000	0
9600	0	CORRELATION	1000	1000	0
9700	0	CORRELATION	1000	1000	0

Test Statistics (kHz)

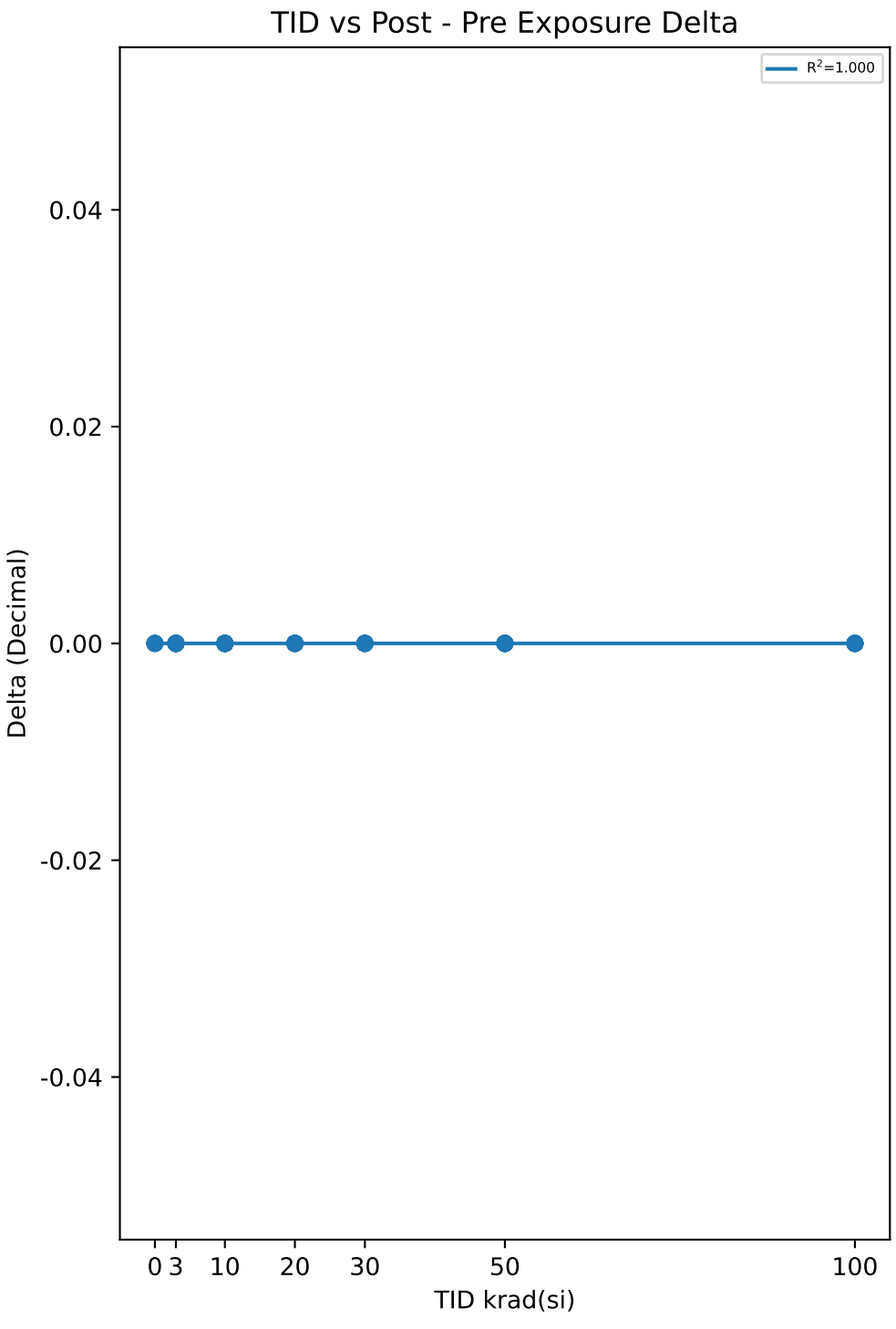
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
3	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
10	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
100	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

Device Test: 24.140 DUTYCYCLE|GNG_40dml/SYNC1/14//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE



Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

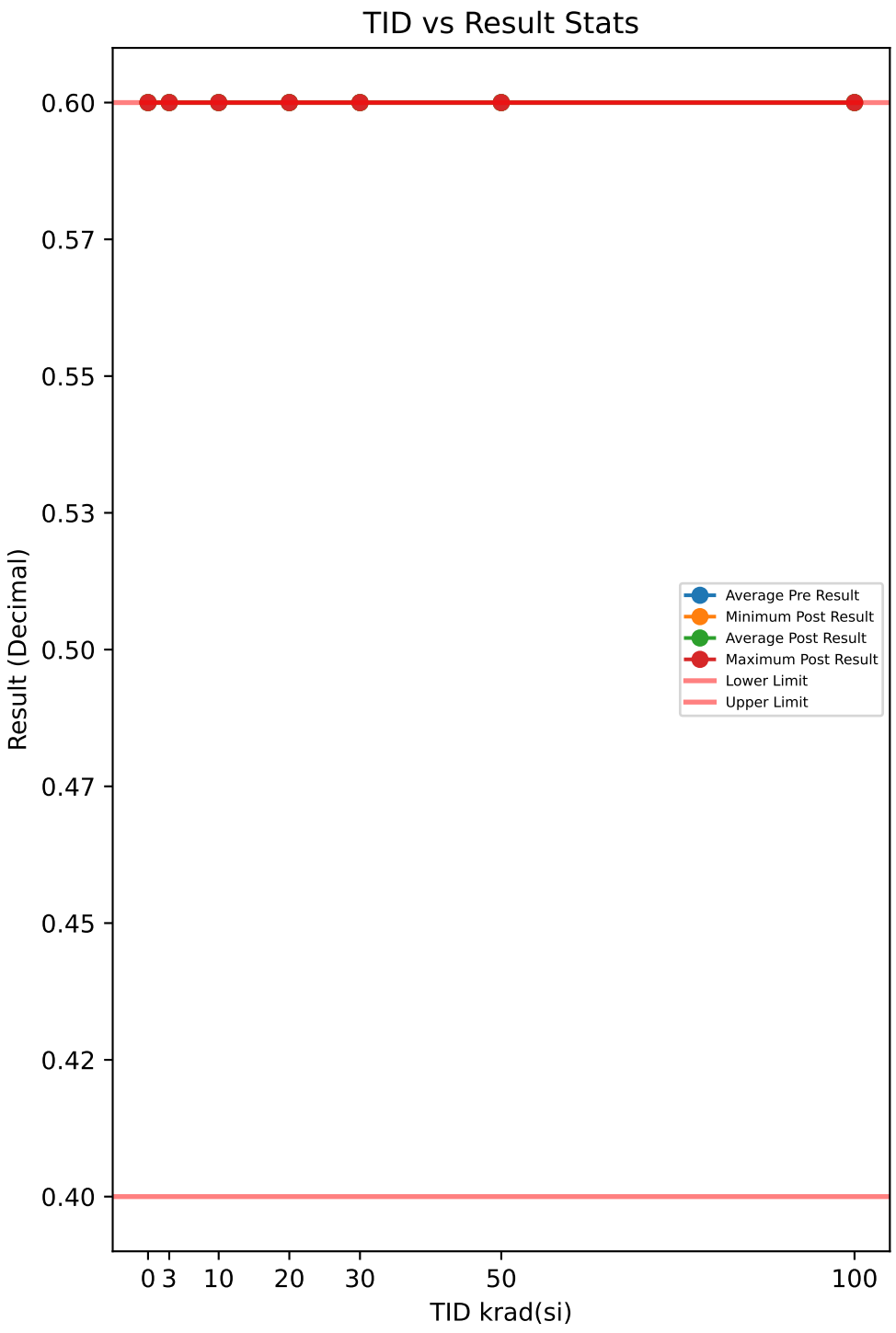
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.4	0.4	0
51	3	Biased	0.4	0.4	0
52	3	Biased	0.4	0.4	0
53	3	Biased	0.4	0.4	0
54	3	Biased	0.4	0.4	0
55	3	Unbiased	0.4	0.4	0
56	3	Unbiased	0.4	0.4	0
57	3	Unbiased	0.4	0.4	0
58	3	Unbiased	0.4	0.4	0
59	3	Unbiased	0.4	0.4	0
60	10	Biased	0.4	0.4	0
61	10	Biased	0.4	0.4	0
62	10	Biased	0.4	0.4	0
63	10	Biased	0.4	0.4	0
64	10	Biased	0.4	0.4	0
65	10	Unbiased	0.4	0.4	0
66	10	Unbiased	0.4	0.4	0
67	10	Unbiased	0.4	0.4	0
68	10	Unbiased	0.4	0.4	0
69	10	Unbiased	0.4	0.4	0
100	20	Biased	0.4	0.4	0
200	20	Biased	0.4	0.4	0
300	20	Biased	0.4	0.4	0
400	20	Biased	0.4	0.4	0
500	20	Biased	0.4	0.4	0
600	20	Unbiased	0.4	0.4	0
700	20	Unbiased	0.4	0.4	0
800	20	Unbiased	0.4	0.4	0
900	20	Unbiased	0.4	0.4	0
1000	20	Unbiased	0.4	0.4	0
1100	30	Biased	0.4	0.4	0
1200	30	Biased	0.4	0.4	0
1300	30	Biased	0.4	0.4	0
1400	30	Biased	0.4	0.4	0
1500	30	Biased	0.4	0.4	0
1600	30	Unbiased	0.4	0.4	0
1700	30	Unbiased	0.4	0.4	0
1800	30	Unbiased	0.4	0.4	0
1900	30	Unbiased	0.4	0.4	0
2000	30	Unbiased	0.4	0.4	0
2100	50	Biased-84Hr-Anneal	0.4	0.4	0
2200	50	Biased-84Hr-Anneal	0.4	0.4	0
2300	50	Biased-84Hr-Anneal	0.4	0.4	0
2400	50	Biased-84Hr-Anneal	0.4	0.4	0
2500	50	Biased-84Hr-Anneal	0.4	0.4	0
2600	50	Unbiased	0.4	0.4	0
2700	50	Unbiased	0.4	0.4	0
2800	50	Unbiased	0.4	0.4	0
2900	50	Unbiased	0.4	0.4	0
3000	50	Unbiased	0.4	0.4	0
4000	100	Biased-168Hr-Anneal	0.4	0.4	0
4100	100	Biased-168Hr-Anneal	0.4	0.4	0
4200	100	Biased-168Hr-Anneal	0.4	0.4	0
4300	100	Biased-168Hr-Anneal	0.4	0.4	0
4400	100	Biased-168Hr-Anneal	0.4	0.4	0
4500	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4600	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4700	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4800	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4900	100	Unbiased-168Hr-Anneal	0.4	0.4	0
9300	0	CORRELATION	0.4	0.4	0
9400	0	CORRELATION	0.4	0.4	0
9500	0	CORRELATION	0.4	0.4	0
9600	0	CORRELATION	0.4	0.4	0
9700	0	CORRELATION	0.4	0.4	0



Test Statistics (Decimal)

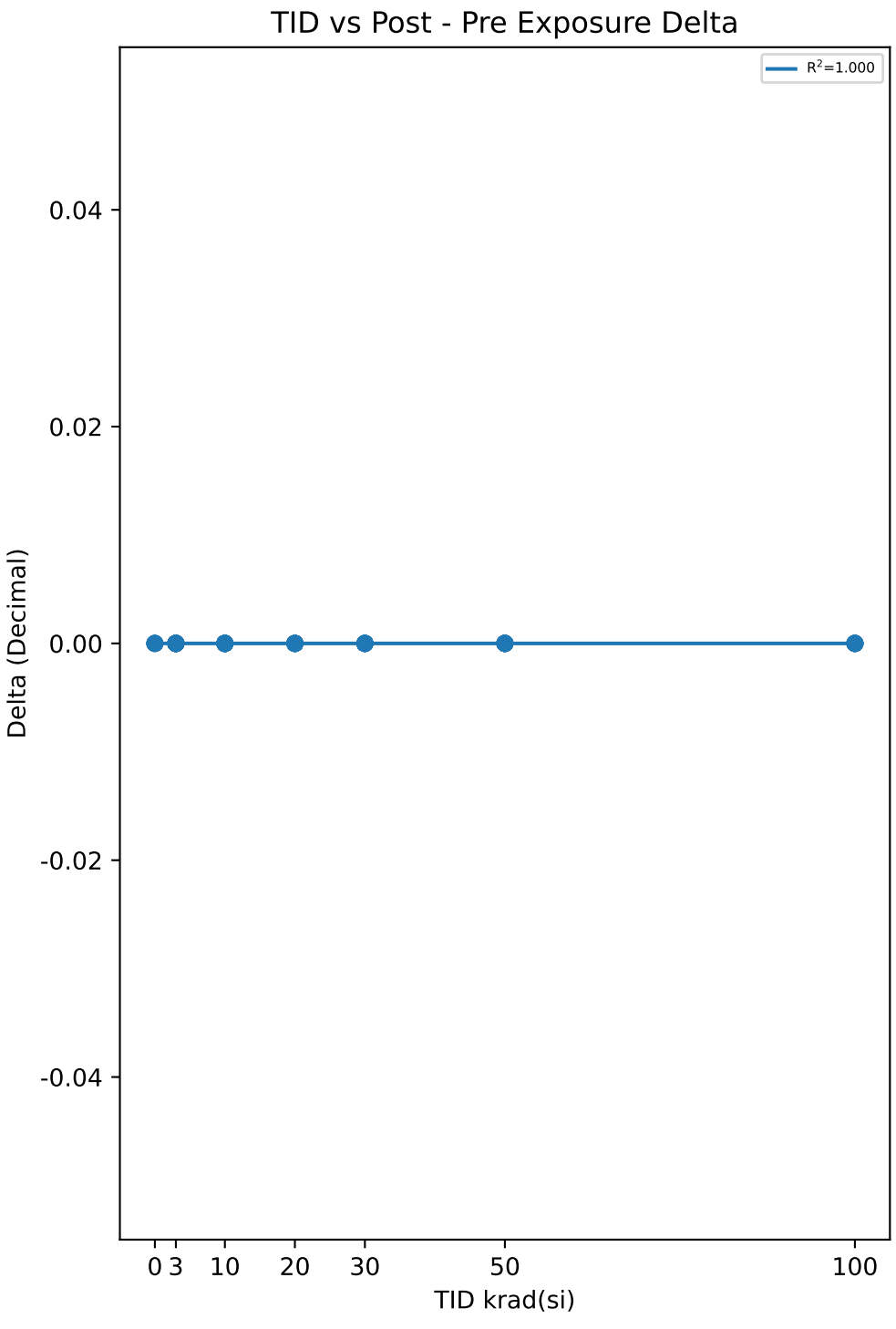
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
3	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
10	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
100	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

Device Test: 24.141 DUTYCYCLE|GNG_60dml/SYNC1/14//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE



Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

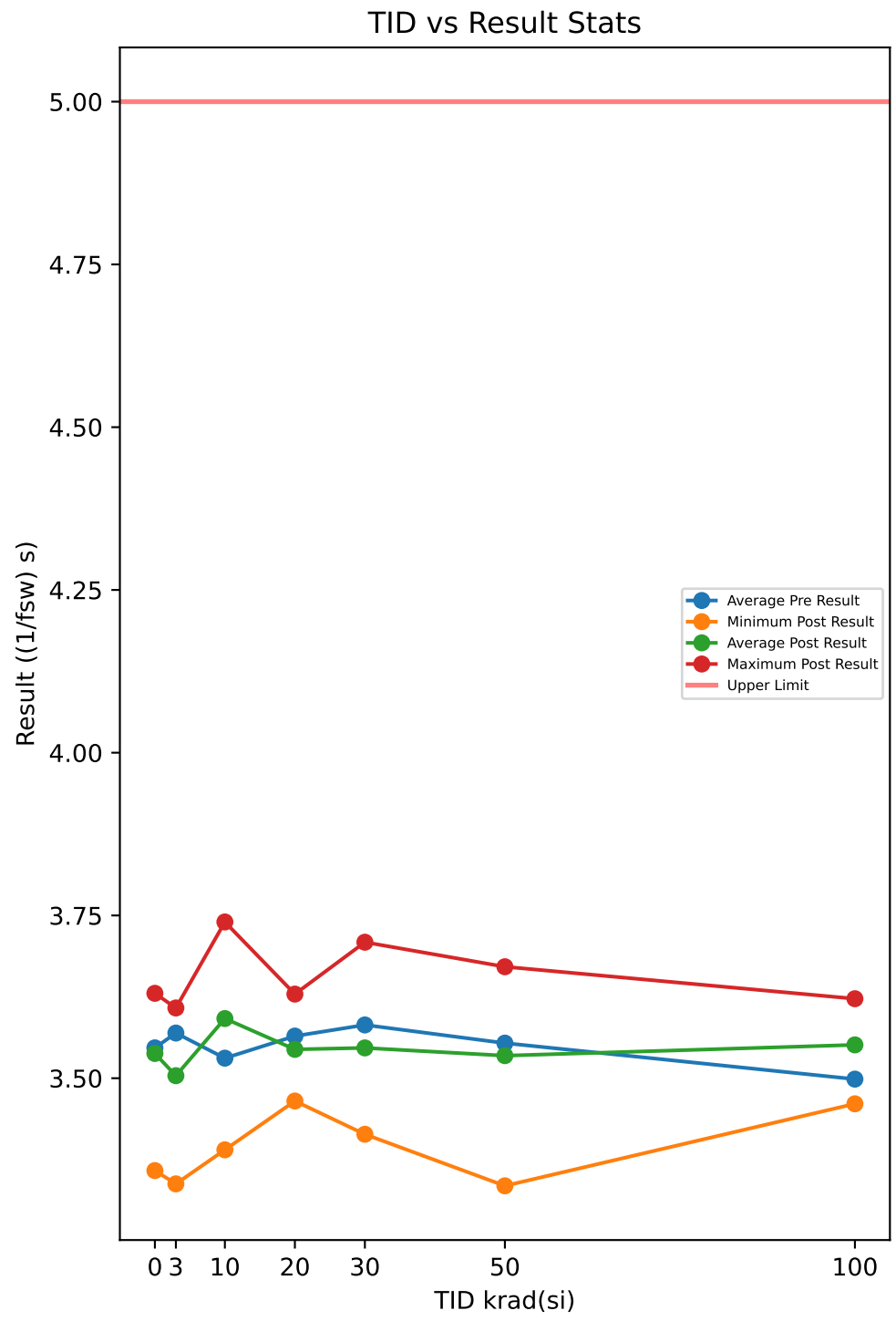
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6	0.6	0
51	3	Biased	0.6	0.6	0
52	3	Biased	0.6	0.6	0
53	3	Biased	0.6	0.6	0
54	3	Biased	0.6	0.6	0
55	3	Unbiased	0.6	0.6	0
56	3	Unbiased	0.6	0.6	0
57	3	Unbiased	0.6	0.6	0
58	3	Unbiased	0.6	0.6	0
59	3	Unbiased	0.6	0.6	0
60	10	Biased	0.6	0.6	0
61	10	Biased	0.6	0.6	0
62	10	Biased	0.6	0.6	0
63	10	Biased	0.6	0.6	0
64	10	Biased	0.6	0.6	0
65	10	Unbiased	0.6	0.6	0
66	10	Unbiased	0.6	0.6	0
67	10	Unbiased	0.6	0.6	0
68	10	Unbiased	0.6	0.6	0
69	10	Unbiased	0.6	0.6	0
100	20	Biased	0.6	0.6	0
200	20	Biased	0.6	0.6	0
300	20	Biased	0.6	0.6	0
400	20	Biased	0.6	0.6	0
500	20	Biased	0.6	0.6	0
600	20	Unbiased	0.6	0.6	0
700	20	Unbiased	0.6	0.6	0
800	20	Unbiased	0.6	0.6	0
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.6	0.6	0
1100	30	Biased	0.6	0.6	0
1200	30	Biased	0.6	0.6	0
1300	30	Biased	0.6	0.6	0
1400	30	Biased	0.6	0.6	0
1500	30	Biased	0.6	0.6	0
1600	30	Unbiased	0.6	0.6	0
1700	30	Unbiased	0.6	0.6	0
1800	30	Unbiased	0.6	0.6	0
1900	30	Unbiased	0.6	0.6	0
2000	30	Unbiased	0.6	0.6	0
2100	50	Biased-84Hr-Anneal	0.6	0.6	0
2200	50	Biased-84Hr-Anneal	0.6	0.6	0
2300	50	Biased-84Hr-Anneal	0.6	0.6	0
2400	50	Biased-84Hr-Anneal	0.6	0.6	0
2500	50	Biased-84Hr-Anneal	0.6	0.6	0
2600	50	Unbiased	0.6	0.6	0
2700	50	Unbiased	0.6	0.6	0
2800	50	Unbiased	0.6	0.6	0
2900	50	Unbiased	0.6	0.6	0
3000	50	Unbiased	0.6	0.6	0
4000	100	Biased-168Hr-Anneal	0.6	0.6	0
4100	100	Biased-168Hr-Anneal	0.6	0.6	0
4200	100	Biased-168Hr-Anneal	0.6	0.6	0
4300	100	Biased-168Hr-Anneal	0.6	0.6	0
4400	100	Biased-168Hr-Anneal	0.6	0.6	0
4500	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4600	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4700	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4800	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4900	100	Unbiased-168Hr-Anneal	0.6	0.6	0
9300	0	CORRELATION	0.6	0.6	0
9400	0	CORRELATION	0.6	0.6	0
9500	0	CORRELATION	0.6	0.6	0
9600	0	CORRELATION	0.6	0.6	0
9700	0	CORRELATION	0.6	0.6	0

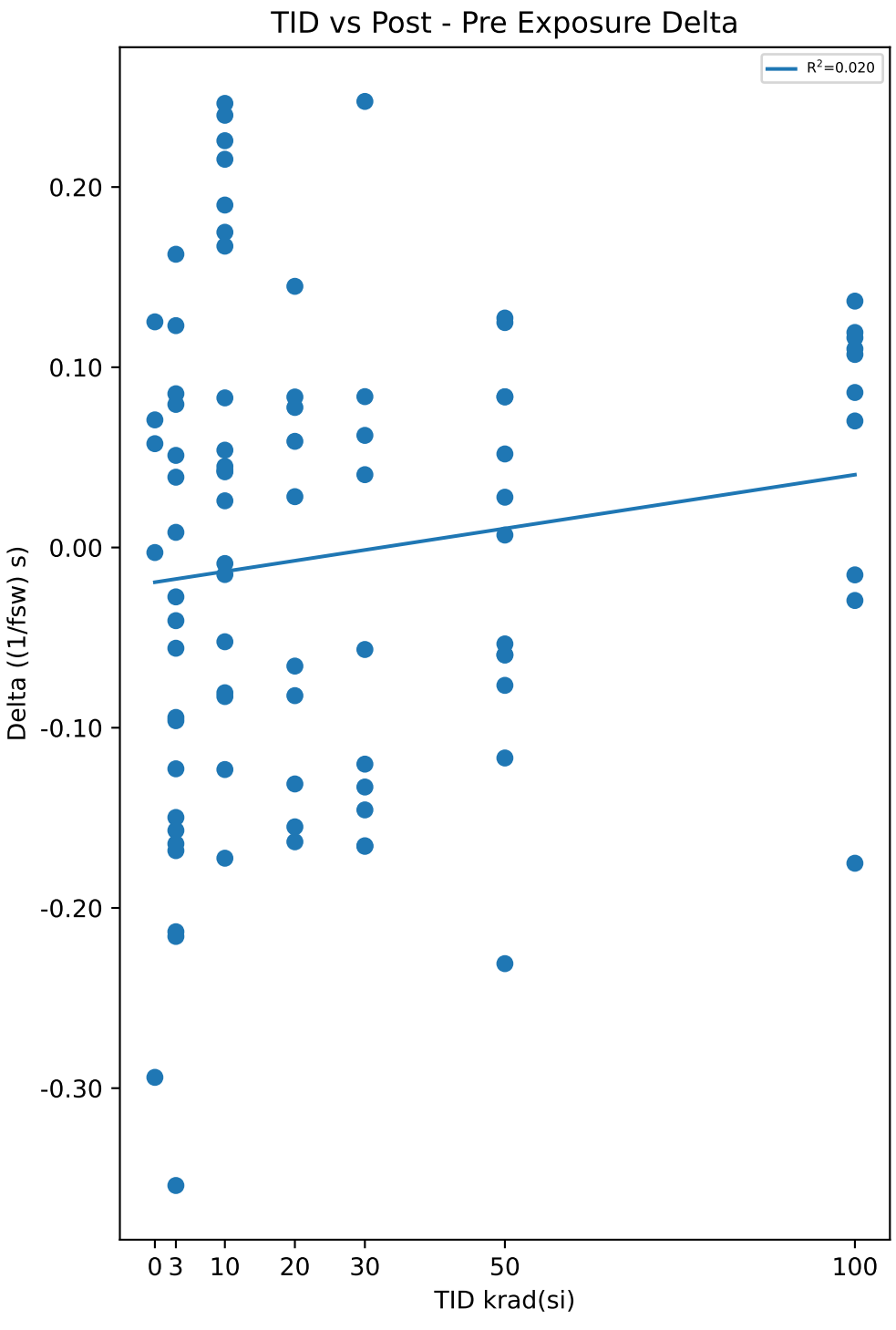


Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
3	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
10	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
100	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

Device Test: 24.142 TIMING|CLKDETECT/SYNC1/14//511k//@T_CLOCK_DET





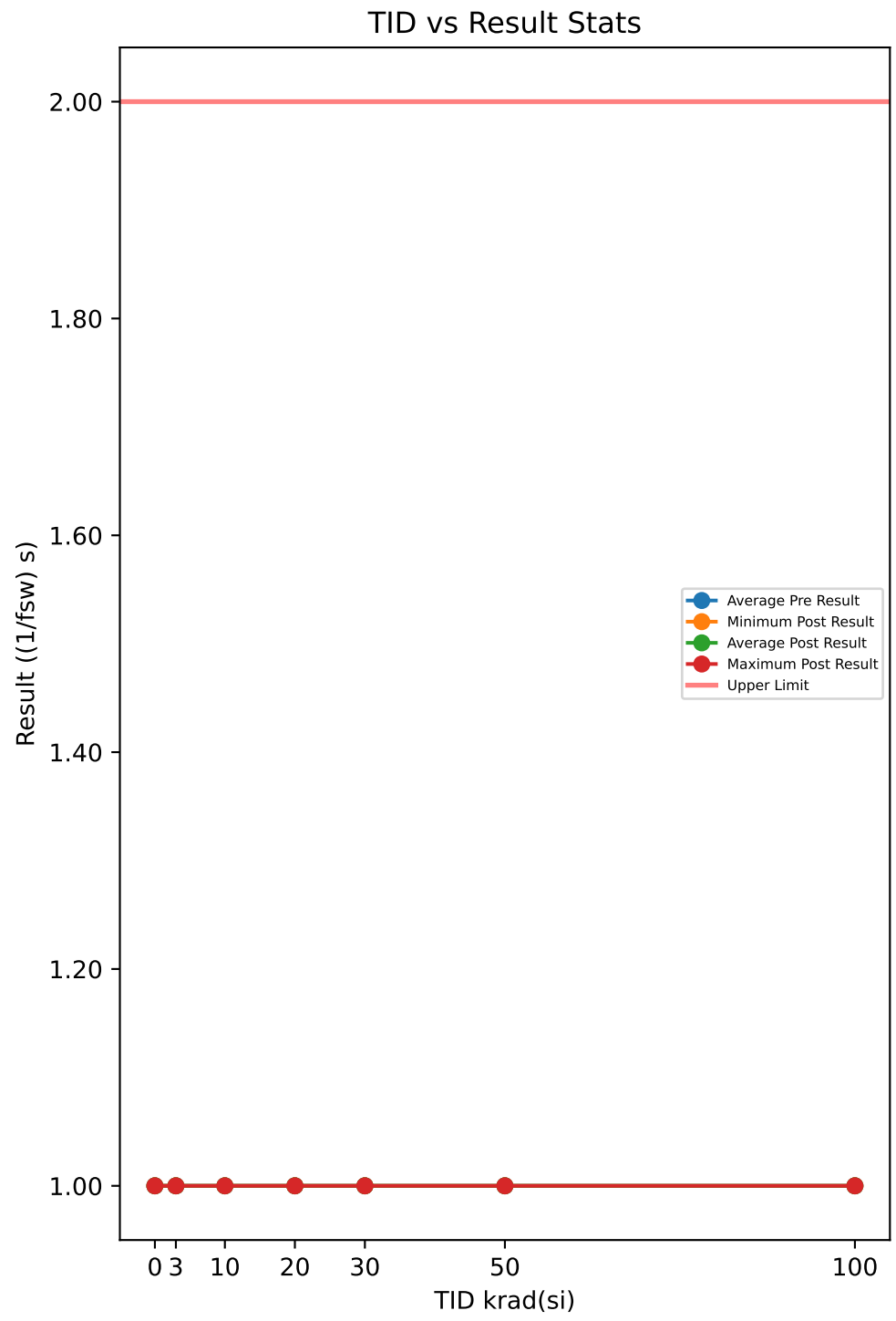
Test Results (Upper Limit = 5.0 ((1/fsw) s))

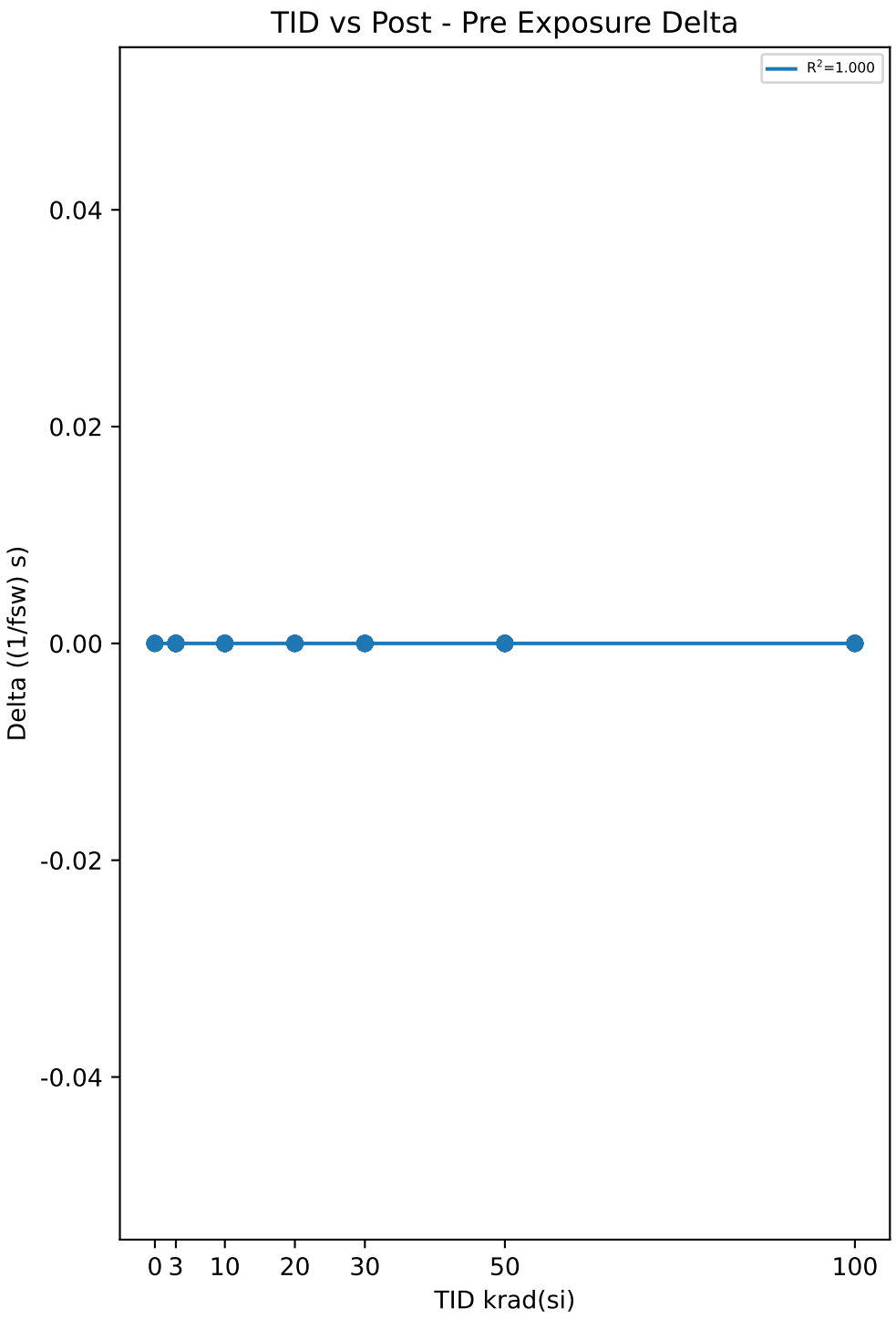
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.5948	3.5389	-0.0559
51	3	Biased	3.6466	3.4784	-0.1682
52	3	Biased	3.6485	3.6079	-0.0406
53	3	Biased	3.6049	3.4821	-0.1228
54	3	Biased	3.4714	3.5104	0.039
55	3	Unbiased	3.4946	3.3985	-0.0961
56	3	Unbiased	3.5911	3.4968	-0.0943
57	3	Unbiased	3.3651	3.3377	-0.0274
58	3	Unbiased	3.4224	3.5851	0.1627
59	3	Unbiased	3.5516	3.6027	0.0511
60	10	Biased	3.4727	3.39	-0.0827
61	10	Biased	3.705	3.5818	-0.1232
62	10	Biased	3.6972	3.74	0.0428
63	10	Biased	3.6068	3.6518	0.045
64	10	Biased	3.6237	3.4513	-0.1724
65	10	Unbiased	3.4571	3.6969	0.2398
66	10	Unbiased	3.3904	3.6161	0.2257
67	10	Unbiased	3.5447	3.4924	-0.0523
68	10	Unbiased	3.6191	3.645	0.0259
69	10	Unbiased	3.4612	3.6512	0.19
100	20	Biased	3.5307	3.5896	0.0589
200	20	Biased	3.5703	3.4881	-0.0822
300	20	Biased	3.6412	3.4779	-0.1633
400	20	Biased	3.5962	3.465	-0.1312
500	20	Biased	3.5515	3.6292	0.0777
600	20	Unbiased	3.6152	3.5494	-0.0658
700	20	Unbiased	3.5249	3.6084	0.0835
800	20	Unbiased	3.5729	3.6011	0.0282
900	20	Unbiased	3.4229	3.5678	0.1449
1000	20	Unbiased	3.6216	3.4666	-0.155
1100	30	Biased	3.572	3.6342	0.0622
1200	30	Biased	3.5794	3.4139	-0.1655
1300	30	Biased	3.6606	3.515	-0.1456
1400	30	Biased	3.65	3.5934	-0.0566
1500	30	Biased	3.6757	3.5428	-0.1329
1600	30	Unbiased	3.45	3.4904	0.0404
1700	30	Unbiased	3.6312	3.4654	-0.1658
1800	30	Unbiased	3.4614	3.7089	0.2475
1900	30	Unbiased	3.4977	3.5814	0.0837
2000	30	Unbiased	3.6403	3.5201	-0.1202
2100	50	Biased-84Hr-Anneal	3.5008	3.4412	-0.0596
2200	50	Biased-84Hr-Anneal	3.4793	3.6066	0.1273
2300	50	Biased-84Hr-Anneal	3.482	3.5339	0.0519
2400	50	Biased-84Hr-Anneal	3.5375	3.5444	0.0069
2500	50	Biased-84Hr-Anneal	3.4515	3.3347	-0.1168
2600	50	Unbiased	3.6787	3.4478	-0.2309
2700	50	Unbiased	3.5854	3.6133	0.0279
2800	50	Unbiased	3.6278	3.5743	-0.0535
2900	50	Unbiased	3.5464	3.6712	0.1248
3000	50	Unbiased	3.6496	3.5731	-0.0765
4000	100	Biased-168Hr-Anneal	3.4661	3.5363	0.0702
4100	100	Biased-168Hr-Anneal	3.5684	3.539	-0.0294
4200	100	Biased-168Hr-Anneal	3.4796	3.5989	0.1193
4300	100	Biased-168Hr-Anneal	3.4778	3.5849	0.1071
4400	100	Biased-168Hr-Anneal	3.6359	3.4607	-0.1752
4500	100	Unbiased-168Hr-Anneal	3.4822	3.5924	0.1102
4600	100	Unbiased-168Hr-Anneal	3.4252	3.5112	0.086
4700	100	Unbiased-168Hr-Anneal	3.5385	3.5233	-0.0152
4800	100	Unbiased-168Hr-Anneal	3.4269	3.5433	0.1164
4900	100	Unbiased-168Hr-Anneal	3.4854	3.6221	0.1367
9300	0	CORRELATION	3.5064	3.564	0.0576
9400	0	CORRELATION	3.3985	3.5237	0.1252
9500	0	CORRELATION	3.6332	3.6304	-0.0028
9600	0	CORRELATION	3.543	3.6138	0.0708
9700	0	CORRELATION	3.6521	3.3581	-0.294

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	3.3985	3.5466	3.6521	0.1027	3.3581	3.538	3.6304	0.109	-0.294	-0.00864	0.1252	0.16589
3	3.3651	3.5391	3.6485	0.096767	3.3377	3.5038	3.6079	0.087143	-0.1682	-0.03525	0.1627	0.097297
10	3.3904	3.5578	3.705	0.10879	3.39	3.5917	3.74	0.11255	-0.1724	0.03386	0.2398	0.14609
20	3.4229	3.5647	3.6412	0.063028	3.465	3.5443	3.6292	0.064176	-0.1633	-0.02043	0.1449	0.1121
30	3.45	3.5818	3.6757	0.08471	3.4139	3.5465	3.7089	0.085954	-0.1658	-0.03528	0.2475	0.13853
50	3.4515	3.5539	3.6787	0.078565	3.3347	3.534	3.6712	0.09967	-0.2309	-0.01985	0.1273	0.11085
100	3.4252	3.4986	3.6359	0.065096	3.4607	3.5512	3.6221	0.048462	-0.1752	0.05261	0.1367	0.098047

Device Test: 24.143 TIMING|CLKDETECT/SYNC1/14//511k//@T_CLOCK_DET_EXT





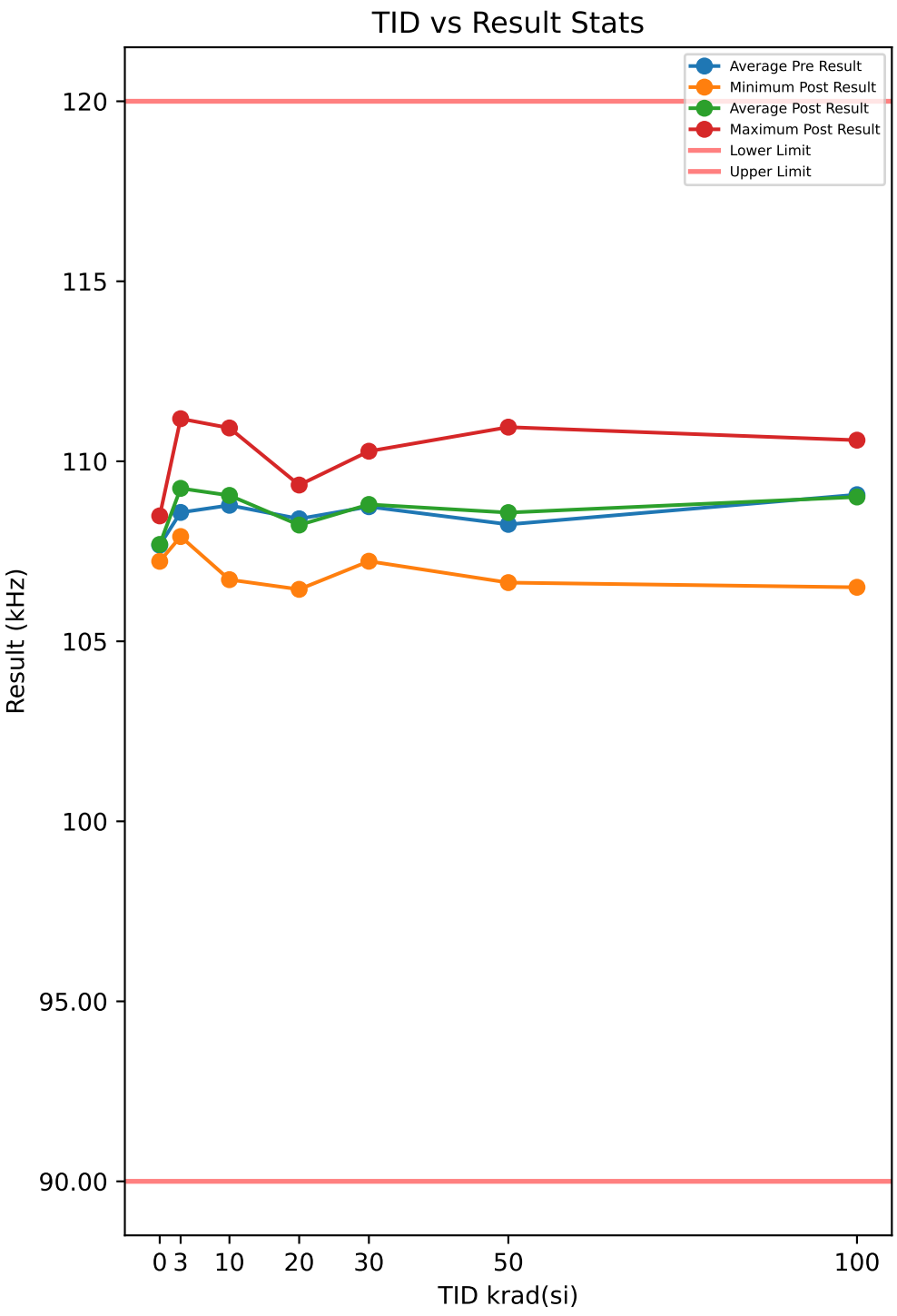
Test Results (Upper Limit = 2.0 ((1/fsw) s))

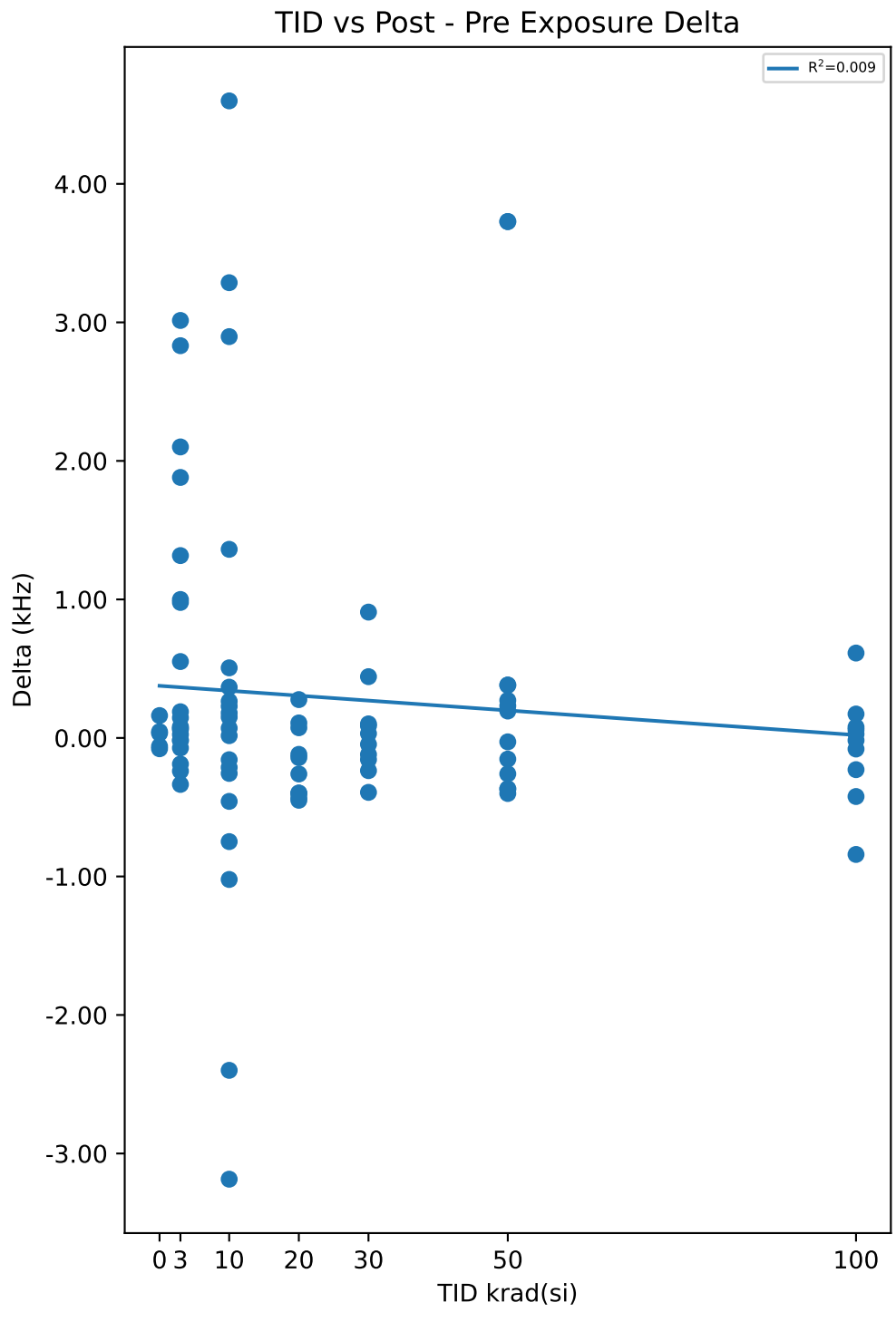
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1	1	0
51	3	Biased	1	1	0
52	3	Biased	1	1	0
53	3	Biased	1	1	0
54	3	Biased	1	1	0
55	3	Unbiased	1	1	0
56	3	Unbiased	1	1	0
57	3	Unbiased	1	1	0
58	3	Unbiased	1	1	0
59	3	Unbiased	1	1	0
60	10	Biased	1	1	0
61	10	Biased	1	1	0
62	10	Biased	1	1	0
63	10	Biased	1	1	0
64	10	Biased	1	1	0
65	10	Unbiased	1	1	0
66	10	Unbiased	1	1	0
67	10	Unbiased	1	1	0
68	10	Unbiased	1	1	0
69	10	Unbiased	1	1	0
100	20	Biased	1	1	0
200	20	Biased	1	1	0
300	20	Biased	1	1	0
400	20	Biased	1	1	0
500	20	Biased	1	1	0
600	20	Unbiased	1	1	0
700	20	Unbiased	1	1	0
800	20	Unbiased	1	1	0
900	20	Unbiased	1	1	0
1000	20	Unbiased	1	1	0
1100	30	Biased	1	1	0
1200	30	Biased	1	1	0
1300	30	Biased	1	1	0
1400	30	Biased	1	1	0
1500	30	Biased	1	1	0
1600	30	Unbiased	1	1	0
1700	30	Unbiased	1	1	0
1800	30	Unbiased	1	1	0
1900	30	Unbiased	1	1	0
2000	30	Unbiased	1	1	0
2100	50	Biased-84Hr-Anneal	1	1	0
2200	50	Biased-84Hr-Anneal	1	1	0
2300	50	Biased-84Hr-Anneal	1	1	0
2400	50	Biased-84Hr-Anneal	1	1	0
2500	50	Biased-84Hr-Anneal	1	1	0
2600	50	Unbiased	1	1	0
2700	50	Unbiased	1	1	0
2800	50	Unbiased	1	1	0
2900	50	Unbiased	1	1	0
3000	50	Unbiased	1	1	0
4000	100	Biased-168Hr-Anneal	1	1	0
4100	100	Biased-168Hr-Anneal	1	1	0
4200	100	Biased-168Hr-Anneal	1	1	0
4300	100	Biased-168Hr-Anneal	1	1	0
4400	100	Biased-168Hr-Anneal	1	1	0
4500	100	Unbiased-168Hr-Anneal	1	1	0
4600	100	Unbiased-168Hr-Anneal	1	1	0
4700	100	Unbiased-168Hr-Anneal	1	1	0
4800	100	Unbiased-168Hr-Anneal	1	1	0
4900	100	Unbiased-168Hr-Anneal	1	1	0
9300	0	CORRELATION	1	1	0
9400	0	CORRELATION	1	1	0
9500	0	CORRELATION	1	1	0
9600	0	CORRELATION	1	1	0
9700	0	CORRELATION	1	1	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	1	1	1	0	1	1	1	0	0	0	0	0
3	1	1	1	0	1	1	1	0	0	0	0	0
10	1	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0
100	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.144 FREQ|100kHz/SYNC1/14//511k//@EXT_SET_FREQ_100kHz





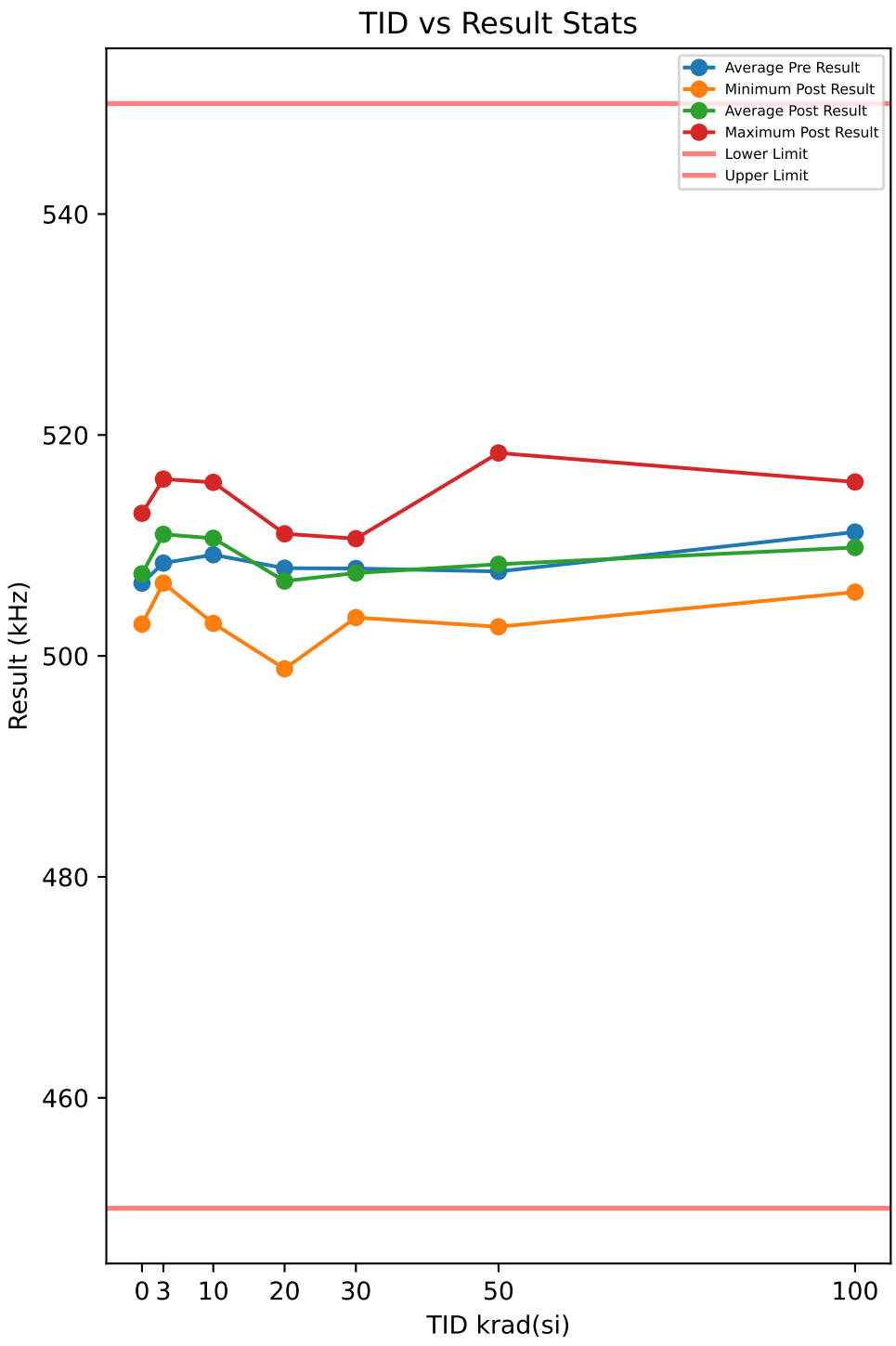
Test Results (Lower Limit = 90.0, Upper Limit = 120.0 (kHz))

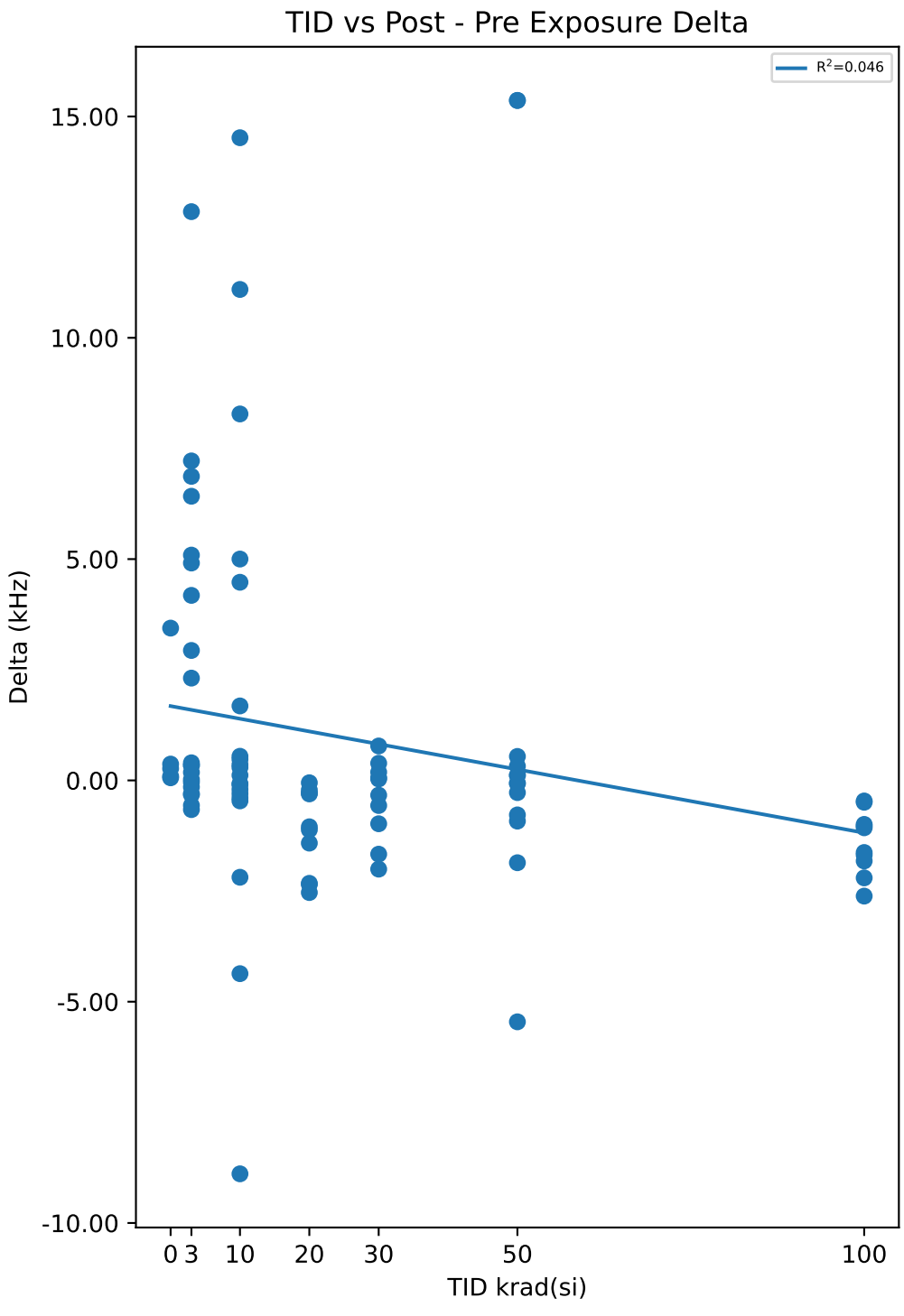
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	108.39	108.38	-0.0169
51	3	Biased	107.81	108.79	0.9781
52	3	Biased	106.09	109.1	3.0138
53	3	Biased	109.05	108.71	-0.3355
54	3	Biased	108.39	108.94	0.5515
55	3	Unbiased	107.33	109.21	1.8806
56	3	Unbiased	106.59	107.91	1.3164
57	3	Unbiased	108.64	109.64	0.9995
58	3	Unbiased	109.08	111.18	2.1008
59	3	Unbiased	107.79	110.62	2.8317
60	10	Biased	108.03	110.92	2.8971
61	10	Biased	106.33	110.93	4.599
62	10	Biased	107.21	110.49	3.2864
63	10	Biased	110.08	109.06	-1.0217
64	10	Biased	109.9	106.71	-3.1854
65	10	Unbiased	109.33	108.88	-0.458
66	10	Unbiased	107.58	106.83	-0.7484
67	10	Unbiased	109	109.51	0.506
68	10	Unbiased	109.84	107.44	-2.3996
69	10	Unbiased	108.39	109.75	1.3616
100	20	Biased	107.14	107.22	0.0736
200	20	Biased	107.02	106.62	-0.3973
300	20	Biased	109.29	109.03	-0.2602
400	20	Biased	109.06	108.92	-0.1417
500	20	Biased	108.58	108.68	0.1083
600	20	Unbiased	106.84	106.44	-0.3997
700	20	Unbiased	109.12	108.67	-0.4499
800	20	Unbiased	108.82	109.09	0.2768
900	20	Unbiased	109.46	109.34	-0.1186
1000	20	Unbiased	108.7	108.27	-0.4304
1100	30	Biased	108.51	108.54	0.0315
1200	30	Biased	108.14	108.22	0.0872
1300	30	Biased	106.78	107.22	0.4423
1400	30	Biased	108.11	107.87	-0.2361
1500	30	Biased	109.65	109.53	-0.1193
1600	30	Unbiased	108.79	108.89	0.1015
1700	30	Unbiased	109.67	109.28	-0.393
1800	30	Unbiased	110.33	110.28	-0.046
1900	30	Unbiased	109.44	109.28	-0.1561
2000	30	Unbiased	107.98	108.89	0.9084
2100	50	Biased-84Hr-Anneal	107.22	110.95	3.7278
2200	50	Biased-84Hr-Anneal	108.85	108.82	-0.0282
2300	50	Biased-84Hr-Anneal	108.44	108.04	-0.401
2400	50	Biased-84Hr-Anneal	108.8	108.54	-0.2592
2500	50	Biased-84Hr-Anneal	109.57	109.76	0.1942
2600	50	Unbiased	108.72	108.57	-0.1528
2700	50	Unbiased	107.17	107.44	0.2714
2800	50	Unbiased	106.4	106.63	0.2315
2900	50	Unbiased	108.13	107.77	-0.3673
3000	50	Unbiased	109.18	108.81	-0.3681
4000	100	Biased-168Hr-Anneal	107.34	106.5	-0.8411
4100	100	Biased-168Hr-Anneal	109.11	109.28	0.1727
4200	100	Biased-168Hr-Anneal	109.39	109.38	-0.0176
4300	100	Biased-168Hr-Anneal	108.24	108.3	0.0593
4400	100	Biased-168Hr-Anneal	107.59	108.2	0.6128
4500	100	Unbiased-168Hr-Anneal	109.26	109.34	0.0788
4600	100	Unbiased-168Hr-Anneal	109.64	109.41	-0.229
4700	100	Unbiased-168Hr-Anneal	111.01	110.59	-0.4229
4800	100	Unbiased-168Hr-Anneal	108.93	108.85	-0.08
4900	100	Unbiased-168Hr-Anneal	110.21	110.24	0.0279
9300	0	CORRELATION	107.06	107.22	0.1615
9400	0	CORRELATION	108.03	108.07	0.0339
9500	0	CORRELATION	108.54	108.48	-0.06
9600	0	CORRELATION	107.39	107.44	0.0453
9700	0	CORRELATION	107.32	107.24	-0.0781

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	107.06	107.67	108.54	0.60586	107.22	107.69	108.48	0.5608	-0.0781	0.02052	0.1615	0.096018
3	106.09	107.92	109.08	1.0043	107.91	109.25	111.18	0.9962	-0.3355	1.332	3.0138	1.1262
10	106.33	108.57	110.08	1.2757	106.71	109.05	110.93	1.5923	-3.1854	0.4837	4.599	2.5349
20	106.84	108.4	109.46	1.0041	106.44	108.23	109.34	1.0697	-0.4499	-0.17391	0.2768	0.25786
30	106.78	108.74	110.33	1.0506	107.22	108.8	110.28	0.87903	-0.393	0.06204	0.9084	0.373
50	106.4	108.25	109.57	1.0096	106.63	108.53	110.95	1.2086	-0.401	0.28483	3.7278	1.2371
100	107.34	109.07	111.01	1.1267	106.5	109.01	110.59	1.1529	-0.8411	-0.06391	0.6128	0.38304

Device Test: 24.151 FREQ|500kHz/SYNC1/14//90.9k//@EXT_SET_FREQ_500kHz





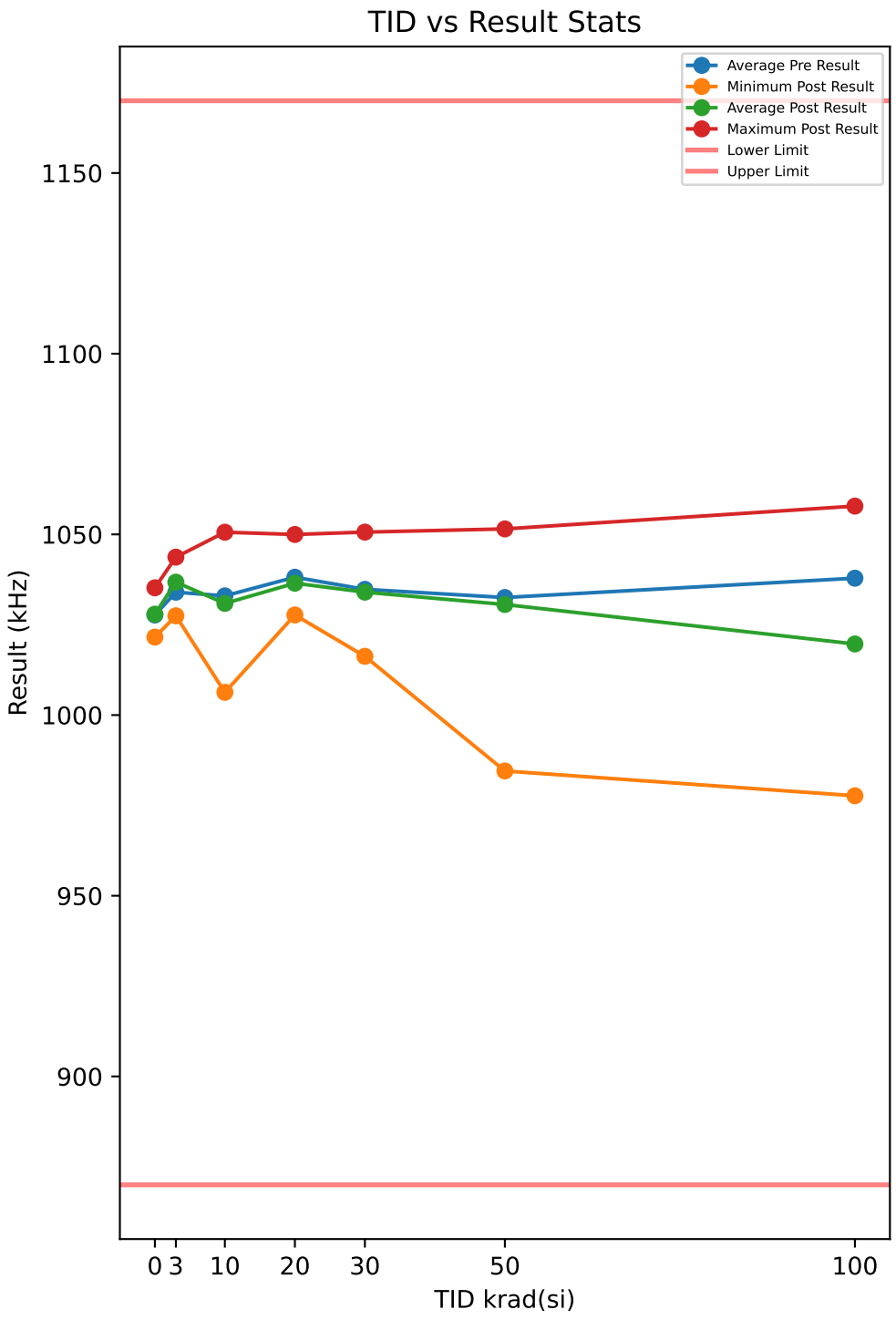
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	502.99	510.21	7.2184
51	3	Biased	510.94	510.38	-0.5644
52	3	Biased	503.16	516.01	12.851
53	3	Biased	504.62	509.53	4.9114
54	3	Biased	505.19	507.5	2.3111
55	3	Unbiased	504.52	509.61	5.0904
56	3	Unbiased	502.41	506.59	4.1805
57	3	Unbiased	507.67	514.09	6.4201
58	3	Unbiased	508.14	515.01	6.8697
59	3	Unbiased	508.21	511.15	2.9358
60	10	Biased	510.71	515.71	5.0012
61	10	Biased	500.88	515.4	14.521
62	10	Biased	503.53	514.62	11.093
63	10	Biased	510.83	508.64	-2.1888
64	10	Biased	512.04	503.15	-8.8893
65	10	Unbiased	505.77	510.24	4.4767
66	10	Unbiased	507.31	502.95	-4.3665
67	10	Unbiased	509.88	510.42	0.545
68	10	Unbiased	510.92	510.82	-0.0951
69	10	Unbiased	506.26	514.54	8.2795
100	20	Biased	507.02	504.49	-2.534
200	20	Biased	507.86	505.51	-2.3493
300	20	Biased	508.94	506.61	-2.3256
400	20	Biased	512.1	511.06	-1.0484
500	20	Biased	510.8	510.51	-0.2871
600	20	Unbiased	500.25	498.84	-1.417
700	20	Unbiased	508.01	507.7	-0.3052
800	20	Unbiased	508.29	508.07	-0.2168
900	20	Unbiased	510.97	509.85	-1.1151
1000	20	Unbiased	505.17	505.12	-0.0532
1100	30	Biased	506.32	506.38	0.061
1200	30	Biased	508.53	507.96	-0.5674
1300	30	Biased	502.7	503.47	0.7775
1400	30	Biased	505.54	504.56	-0.9797
1500	30	Biased	508.4	506.73	-1.667
1600	30	Unbiased	510.21	509.87	-0.3333
1700	30	Unbiased	511.39	509.39	-2.0049
1800	30	Unbiased	510.58	510.61	0.0319
1900	30	Unbiased	509.05	509.24	0.1863
2000	30	Unbiased	506.42	506.81	0.3872
2100	50	Biased-84Hr-Anneal	503.01	518.37	15.363
2200	50	Biased-84Hr-Anneal	508.49	503.03	-5.4548
2300	50	Biased-84Hr-Anneal	511.27	509.41	-1.8602
2400	50	Biased-84Hr-Anneal	505.68	505.4	-0.2756
2500	50	Biased-84Hr-Anneal	513.53	512.75	-0.7798
2600	50	Unbiased	510.54	510.48	-0.0598
2700	50	Unbiased	505.59	505.91	0.3222
2800	50	Unbiased	502.1	502.64	0.5412
2900	50	Unbiased	508.71	507.79	-0.9202
3000	50	Unbiased	507.55	507.48	-0.0712
4000	100	Biased-168Hr-Anneal	507.41	505.78	-1.6293
4100	100	Biased-168Hr-Anneal	511.57	508.95	-2.6144
4200	100	Biased-168Hr-Anneal	511.23	510.76	-0.465
4300	100	Biased-168Hr-Anneal	508	506.93	-1.0705
4400	100	Biased-168Hr-Anneal	507.49	506.46	-1.0284
4500	100	Unbiased-168Hr-Anneal	510.58	510.09	-0.494
4600	100	Unbiased-168Hr-Anneal	510.51	508.31	-2.2023
4700	100	Unbiased-168Hr-Anneal	517.57	515.75	-1.8202
4800	100	Unbiased-168Hr-Anneal	510.41	509.42	-0.9942
4900	100	Unbiased-168Hr-Anneal	517.39	515.71	-1.6852
9300	0	CORRELATION	503.88	507.33	3.4406
9400	0	CORRELATION	512.64	512.91	0.2683
9500	0	CORRELATION	506.06	506.12	0.0587
9600	0	CORRELATION	502.78	502.88	0.0937
9700	0	CORRELATION	507.55	507.92	0.3686

Test Statistics (kHz)

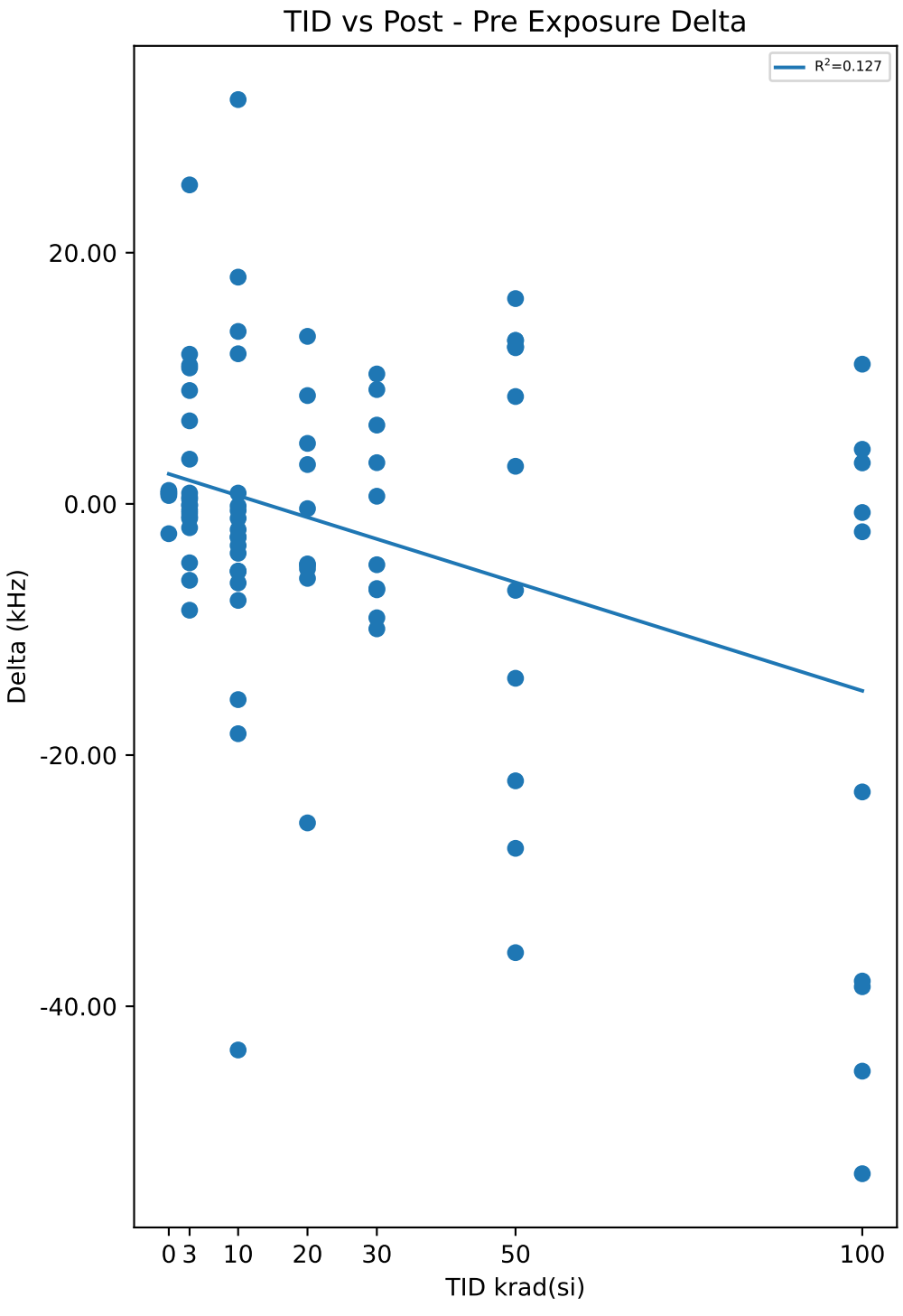
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	502.78	506.58	512.64	3.8604	502.88	507.43	512.91	3.6299	0.0587	0.84598	3.4406	1.456
3	502.41	505.79	510.94	2.8082	506.59	511.01	516.01	3.1167	-0.5644	5.2224	12.851	3.5701
10	500.88	507.81	512.04	3.6897	502.95	510.65	515.71	4.7023	-8.8893	2.8376	14.521	7.2278
20	500.25	507.94	512.1	3.39	498.84	506.78	511.06	3.6049	-2.534	-1.1652	-0.0532	0.96312
30	502.7	507.91	511.39	2.667	503.47	507.5	510.61	2.3403	-2.0049	-0.41084	0.7775	0.90045
50	502.1	507.65	513.53	3.6267	502.64	508.33	518.37	4.7376	-5.4548	0.68053	15.363	5.4422
100	507.41	511.21	517.57	3.6342	505.78	509.81	515.75	3.4946	-2.6144	-1.4003	-0.465	0.70988

Device Test: 24.152 FREQ|1MHz/SYNC1/14//34.8k//@EXT_SET_FREQ_1000kHz



Test Results (Lower Limit = 870.0, Upper Limit = 1170.0 (kHz))

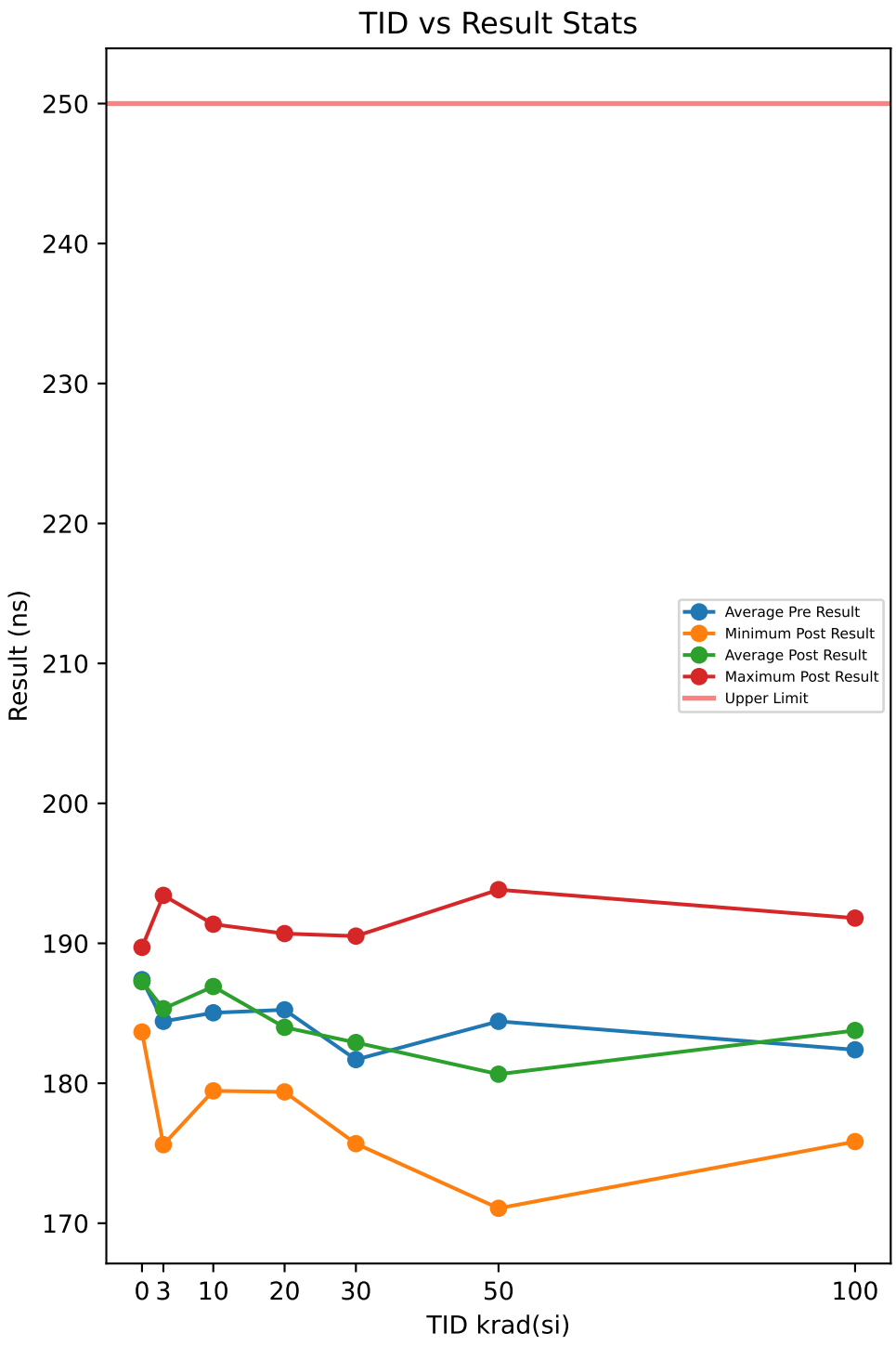
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1032.2	1027.5	-4.6912
51	3	Biased	1035.2	1029.1	-6.0842
52	3	Biased	1018.3	1043.7	25.398
53	3	Biased	1042.2	1033.8	-8.4646
54	3	Biased	1032.6	1043.4	10.824
55	3	Unbiased	1029	1041	11.916
56	3	Unbiased	1021.8	1032.8	11.034
57	3	Unbiased	1033.9	1037.4	3.56
58	3	Unbiased	1030.5	1037.1	6.612
59	3	Unbiased	1032.9	1041.9	9.0262
60	10	Biased	1030.2	1042.2	11.952
61	10	Biased	1018.4	1050.6	32.19
62	10	Biased	1026.5	1040.3	13.73
63	10	Biased	1042.4	1036.1	-6.2931
64	10	Biased	1038.4	1020.1	-18.298
65	10	Unbiased	1036.6	1021	-15.583
66	10	Unbiased	1027.6	1022.2	-5.3785
67	10	Unbiased	1026.7	1024.6	-2.0463
68	10	Unbiased	1049.8	1006.3	-43.48
69	10	Unbiased	1027.5	1045.5	18.054
100	20	Biased	1028	1041.3	13.339
200	20	Biased	1032.6	1027.7	-4.8772
300	20	Biased	1075.4	1050	-25.399
400	20	Biased	1037	1031	-5.9304
500	20	Biased	1038.5	1038.1	-0.3766
600	20	Unbiased	1020.9	1029.6	8.6246
700	20	Unbiased	1040.4	1035.6	-4.7805
800	20	Unbiased	1039.2	1042.3	3.133
900	20	Unbiased	1036.3	1041.1	4.8164
1000	20	Unbiased	1033.4	1028.2	-5.169
1100	30	Biased	1039.3	1032.4	-6.8396
1200	30	Biased	1027.3	1018.3	-9.0682
1300	30	Biased	1015.6	1016.3	0.6096
1400	30	Biased	1033.1	1036.3	3.2813
1500	30	Biased	1031.7	1038	6.2731
1600	30	Unbiased	1026.7	1019.9	-6.7404
1700	30	Unbiased	1041.5	1050.6	9.1027
1800	30	Unbiased	1053.4	1043.4	-9.9485
1900	30	Unbiased	1045.8	1040.9	-4.8447
2000	30	Unbiased	1033.6	1043.9	10.344
2100	50	Biased-84Hr-Anneal	1029	1041.5	12.512
2200	50	Biased-84Hr-Anneal	1036.3	1044.8	8.5485
2300	50	Biased-84Hr-Anneal	1033.3	1019.4	-13.885
2400	50	Biased-84Hr-Anneal	1035.2	1051.5	16.347
2500	50	Biased-84Hr-Anneal	1041.1	1034.2	-6.8841
2600	50	Unbiased	1031.2	1003.8	-27.423
2700	50	Unbiased	1021.9	999.83	-22.049
2800	50	Unbiased	1020.3	984.53	-35.731
2900	50	Unbiased	1043.8	1046.8	2.9955
3000	50	Unbiased	1033.4	1045.8	12.433
4000	100	Biased-168Hr-Anneal	1031	977.67	-53.332
4100	100	Biased-168Hr-Anneal	1044	1055.1	11.124
4200	100	Biased-168Hr-Anneal	1038.4	1036.2	-2.2201
4300	100	Biased-168Hr-Anneal	1031.5	1034.8	3.2637
4400	100	Biased-168Hr-Anneal	1024.4	979.25	-45.165
4500	100	Unbiased-168Hr-Anneal	1024.9	1002	-22.933
4600	100	Unbiased-168Hr-Anneal	1050.9	1055.3	4.3459
4700	100	Unbiased-168Hr-Anneal	1058.5	1057.8	-0.6855
4800	100	Unbiased-168Hr-Anneal	1035.9	997.47	-38.443
4900	100	Unbiased-168Hr-Anneal	1039.2	1001.2	-37.991
9300	0	CORRELATION	1031.8	1029.4	-2.3726
9400	0	CORRELATION	1034.1	1035.2	1.0706
9500	0	CORRELATION	1026.9	1027.6	0.6666
9600	0	CORRELATION	1025	1025.8	0.8351
9700	0	CORRELATION	1020.7	1021.6	0.9128

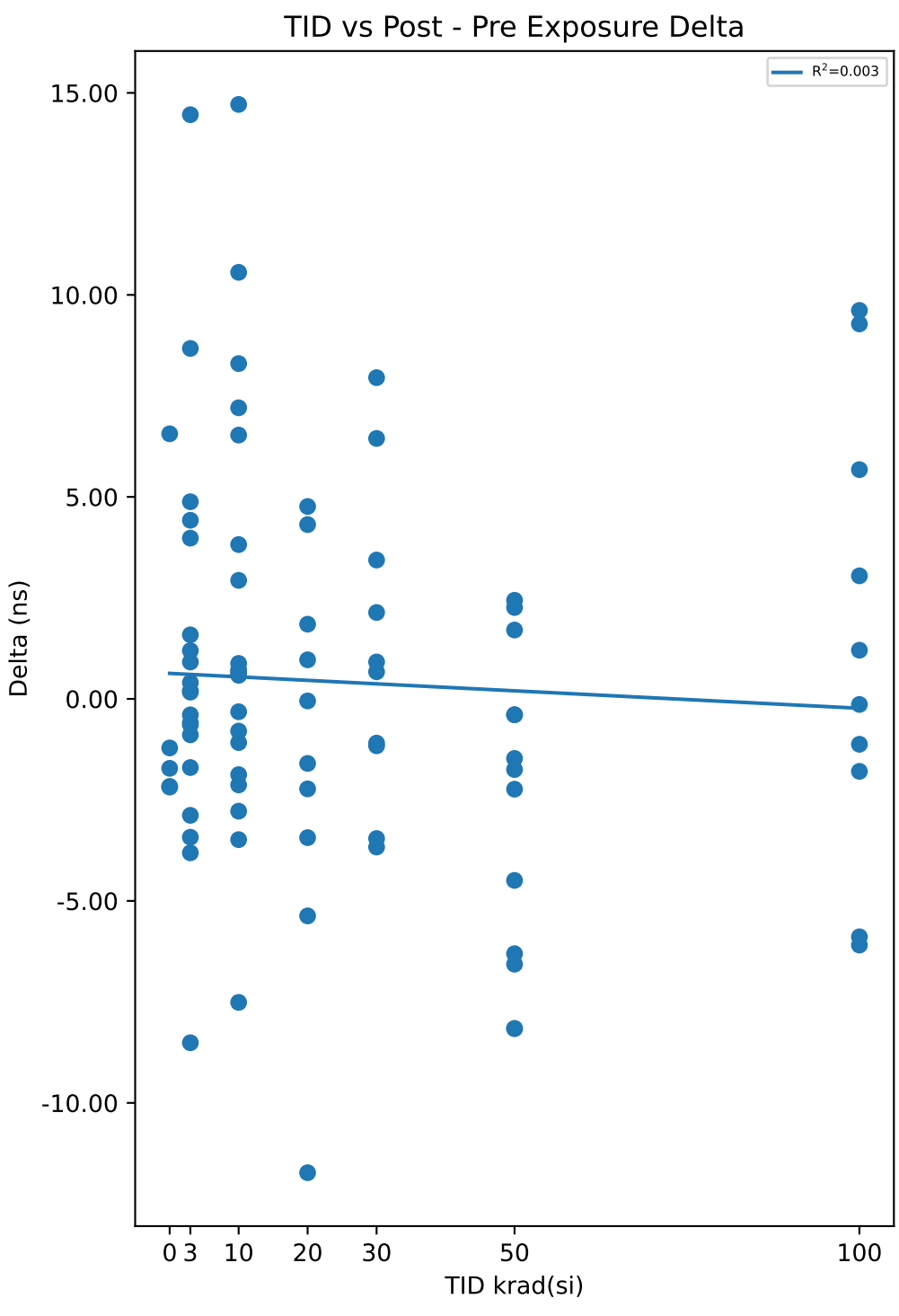


Test Statistics (kHz)

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	1020.7	1027.7	1034.1	5.379	1021.6	1027.9	1035.2	5.0047	-2.3726	0.2225	1.0706	1.458
3	1018.3	1030.9	1042.2	6.7547	1027.5	1036.8	1043.7	5.8378	-8.4646	5.913	25.398	10.246
10	1018.4	1032.4	1049.8	9.2649	1006.3	1030.9	1050.6	14.058	-43.48	-1.5151	32.19	21.632
20	1020.9	1038.1	1075.4	14.336	1027.7	1036.5	1050	7.355	-25.399	-1.662	13.339	10.601
30	1015.6	1034.8	1053.4	10.713	1016.3	1034	1050.6	11.995	-9.9485	-0.78309	10.344	7.6819
50	1020.3	1032.5	1043.8	7.4565	984.53	1027.2	1051.5	23.728	-35.731	-5.3137	16.347	18.658
100	1024.4	1037.9	1058.5	10.936	977.67	1019.7	1057.8	31.67	-53.332	-18.204	11.124	23.982

Device Test: 24.154 TIMING|MINON/SW/14//511k//@ON_TIME_MIN_14V





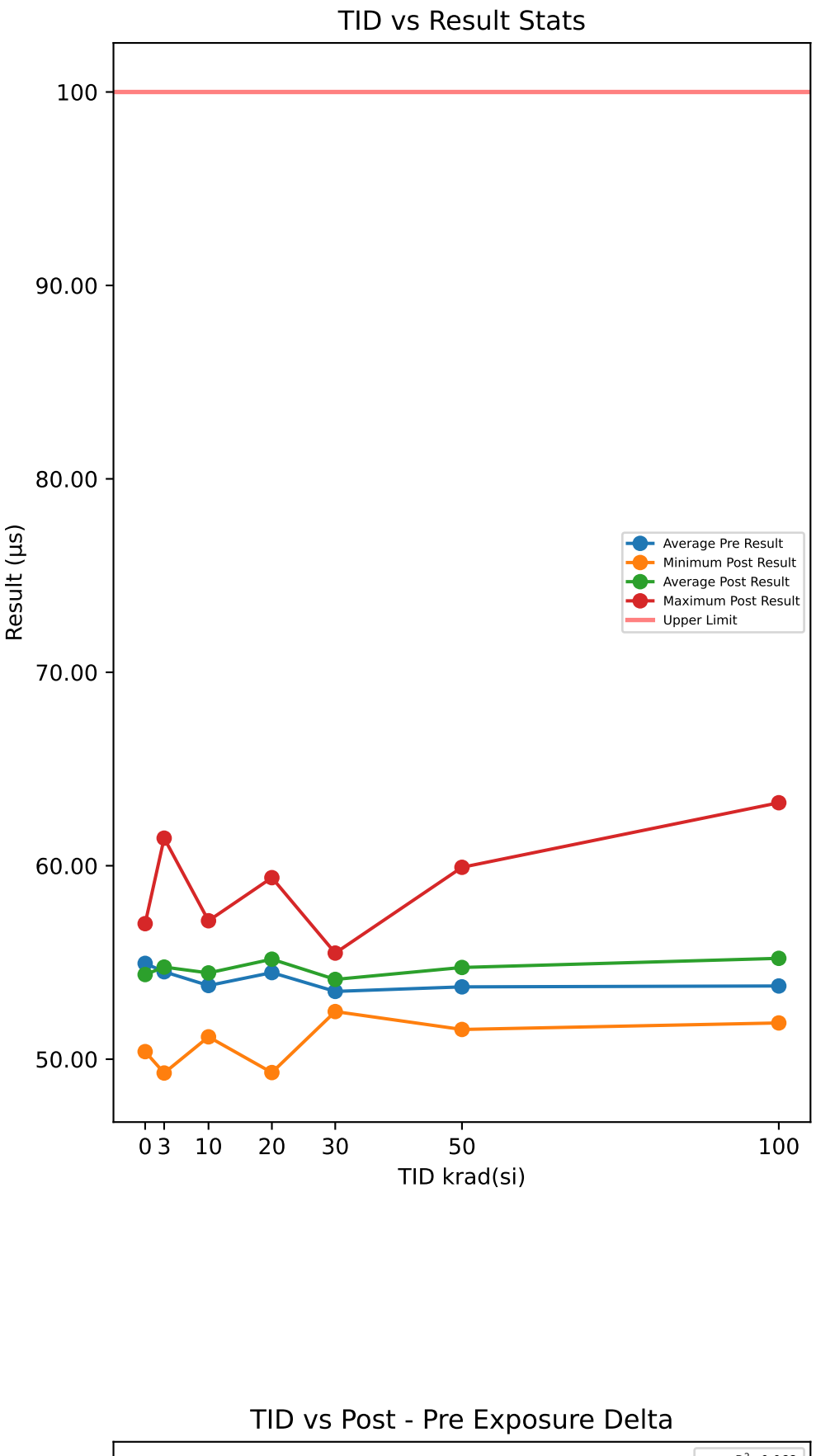
Test Results (Upper Limit = 250.0 (ns))

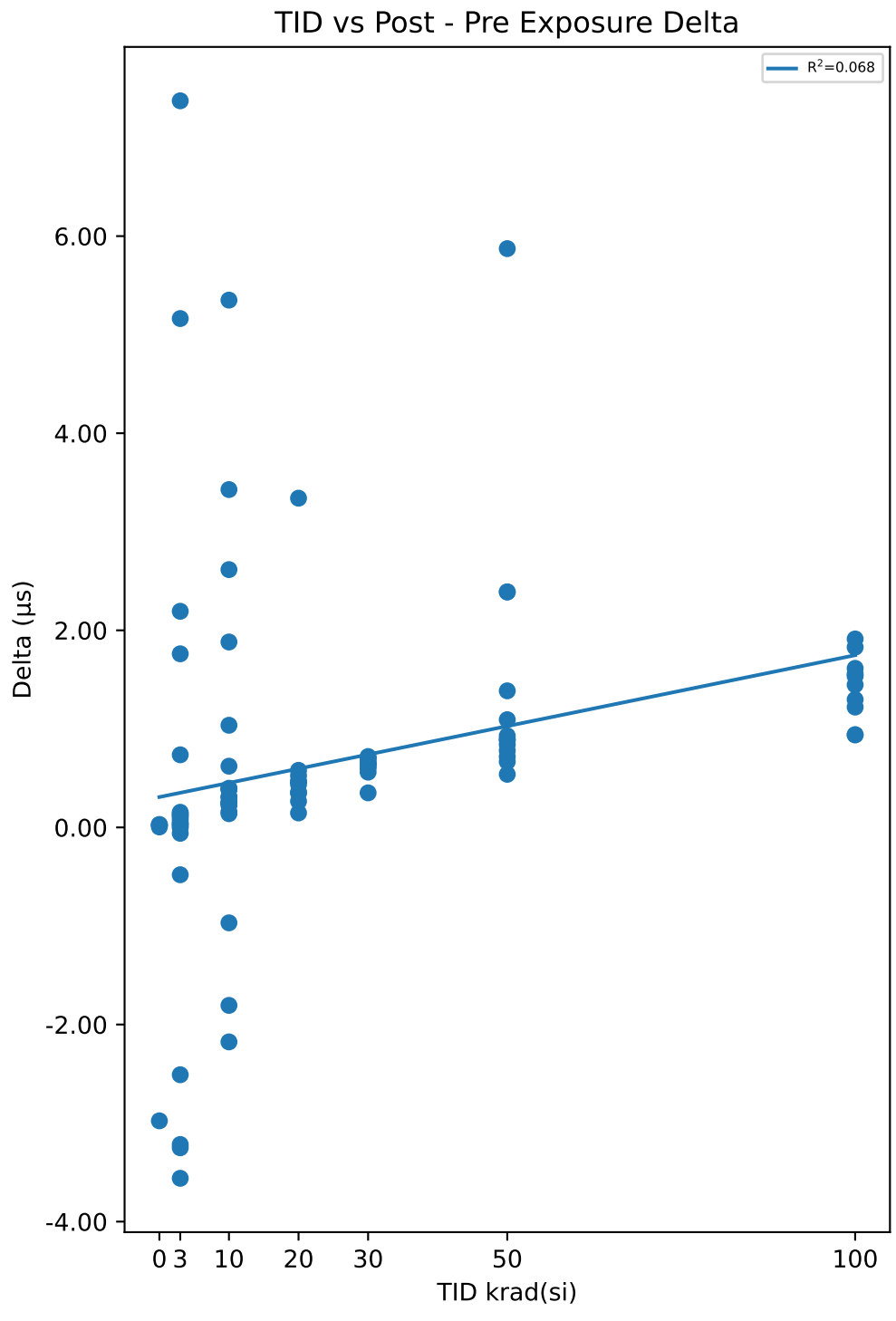
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	179.18	184.06	4.8802
51	3	Biased	182.58	183.49	0.9132
52	3	Biased	184.12	175.61	-8.5116
53	3	Biased	182.95	181.25	-1.699
54	3	Biased	181.58	178.7	-2.882
55	3	Unbiased	189.78	189.38	-0.3943
56	3	Unbiased	189.66	185.85	-3.8102
57	3	Unbiased	178.02	192.48	14.46
58	3	Unbiased	180.34	189.01	8.6745
59	3	Unbiased	189	193.42	4.4218
60	10	Biased	181.16	188.36	7.2058
61	10	Biased	185.59	186.31	0.7186
62	10	Biased	181.9	190.2	8.3
63	10	Biased	192.45	184.94	-7.5124
64	10	Biased	189.25	188.17	-1.0806
65	10	Unbiased	180.81	191.36	10.558
66	10	Unbiased	178.79	179.46	0.6606
67	10	Unbiased	183.77	190.3	6.5304
68	10	Unbiased	175.03	189.74	14.714
69	10	Unbiased	179.7	180.28	0.584
100	20	Biased	191.11	179.38	-11.728
200	20	Biased	179.34	184.1	4.7627
300	20	Biased	182.33	180.1	-2.2272
400	20	Biased	184.64	183.04	-1.5976
500	20	Biased	189.81	186.38	-3.434
600	20	Unbiased	182.15	186.46	4.3151
700	20	Unbiased	193.13	187.76	-5.3712
800	20	Unbiased	179.62	181.47	1.8488
900	20	Unbiased	190.74	190.69	-0.0509
1000	20	Unbiased	179.63	180.59	0.9671
1100	30	Biased	177.32	176.16	-1.1606
1200	30	Biased	181.13	184.57	3.4375
1300	30	Biased	181.55	178.09	-3.4565
1400	30	Biased	179.57	186.02	6.4471
1500	30	Biased	186.67	185.57	-1.0945
1600	30	Unbiased	188.38	190.51	2.1385
1700	30	Unbiased	185.06	185.73	0.6708
1800	30	Unbiased	178.24	186.19	7.9514
1900	30	Unbiased	184.23	180.56	-3.6664
2000	30	Unbiased	174.77	175.68	0.9138
2100	50	Biased-84Hr-Anneal	179.23	178.83	-0.3932
2200	50	Biased-84Hr-Anneal	179.63	173.33	-6.3069
2300	50	Biased-84Hr-Anneal	181.55	174.98	-6.5671
2400	50	Biased-84Hr-Anneal	188.5	186.76	-1.7484
2500	50	Biased-84Hr-Anneal	188.88	187.4	-1.4743
2600	50	Unbiased	182.45	184.71	2.2624
2700	50	Unbiased	192.13	193.83	1.7048
2800	50	Unbiased	183.18	178.68	-4.4928
2900	50	Unbiased	187.64	185.41	-2.2349
3000	50	Unbiased	181.08	183.52	2.4411
4000	100	Biased-168Hr-Anneal	192.92	191.8	-1.123
4100	100	Biased-168Hr-Anneal	177	180.05	3.0464
4200	100	Biased-168Hr-Anneal	192.13	186.24	-5.8891
4300	100	Biased-168Hr-Anneal	173.08	178.75	5.6754
4400	100	Biased-168Hr-Anneal	184.36	178.27	-6.0936
4500	100	Unbiased-168Hr-Anneal	186.37	187.57	1.2056
4600	100	Unbiased-168Hr-Anneal	166.55	175.83	9.2817
4700	100	Unbiased-168Hr-Anneal	188.81	187.02	-1.7936
4800	100	Unbiased-168Hr-Anneal	186.16	186.02	-0.1376
4900	100	Unbiased-168Hr-Anneal	176.55	186.16	9.6154
9300	0	CORRELATION	183.15	189.71	6.5619
9400	0	CORRELATION	191.3	189.12	-2.1825
9500	0	CORRELATION	190.31	188.14	-2.1663
9600	0	CORRELATION	186.88	185.66	-1.214
9700	0	CORRELATION	185.38	183.66	-1.7182

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	183.15	187.4	191.3	3.3935	183.66	187.26	189.71	2.5355	-2.1825	-0.14382	6.5619	3.7695
3	178.02	183.72	189.78	4.3591	175.61	185.33	193.42	5.8401	-8.5116	1.6053	14.46	6.6757
10	175.03	182.84	192.45	5.1327	179.46	186.91	191.36	4.185	-7.5124	4.0679	14.714	6.5393
20	179.34	185.25	193.13	5.4189	179.38	184	190.69	3.744	-11.728	-1.2515	4.7627	4.8955
30	174.77	181.69	188.38	4.3593	175.68	182.91	190.51	4.9732	-3.6664	1.2181	7.9514	3.881
50	179.23	184.43	192.13	4.4857	173.33	182.75	193.83	6.2635	-6.5671	-1.6809	2.4411	3.3199
100	166.55	182.39	192.92	8.704	175.83	183.77	191.8	5.1507	-6.0936	1.3788	9.6154	5.5663

Device Test: 24.155 TIMING|DELAY/EN/14//511k//@T_EN_DELAY





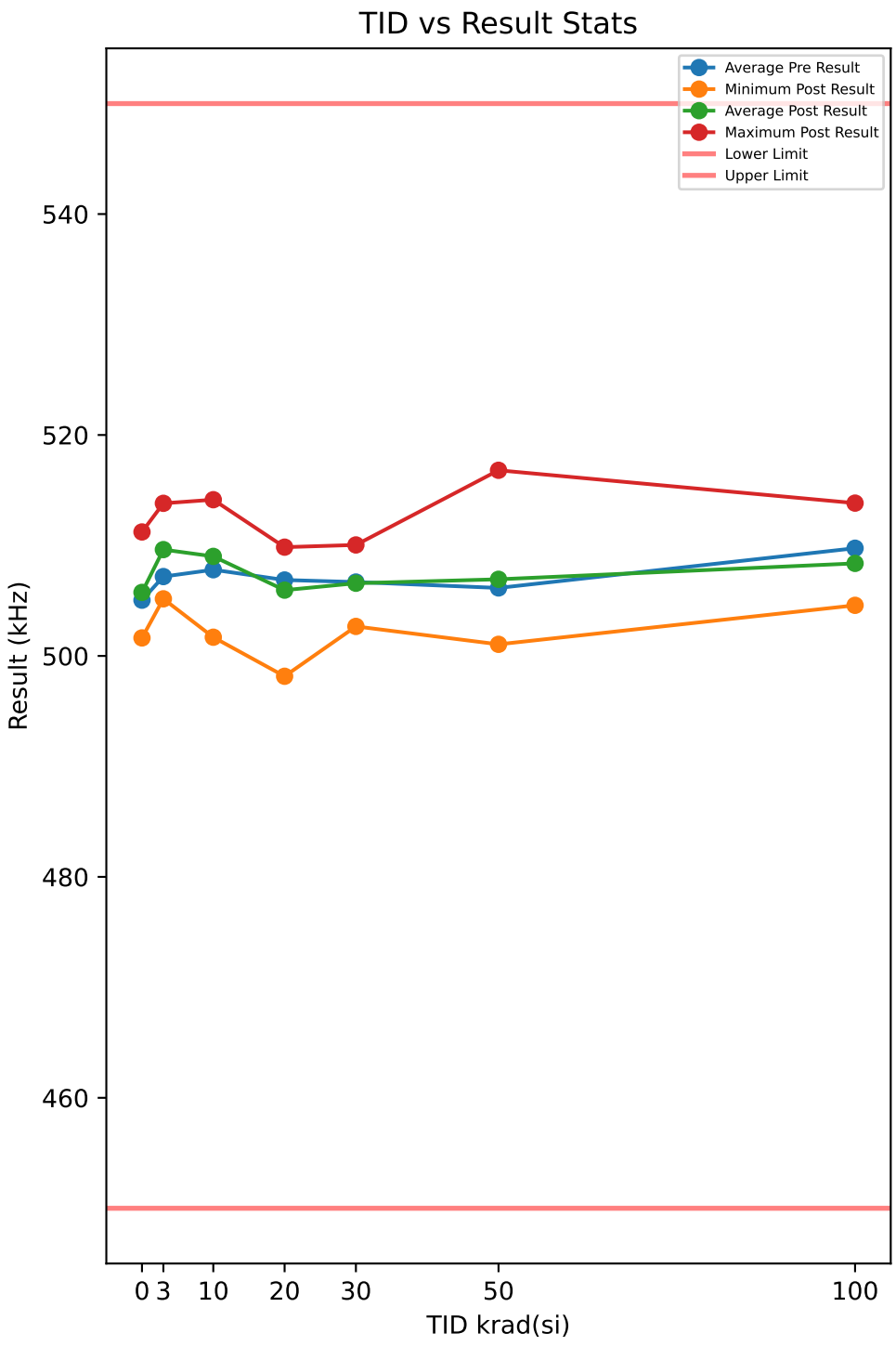
Test Results (Upper Limit = 100.0 (µs))

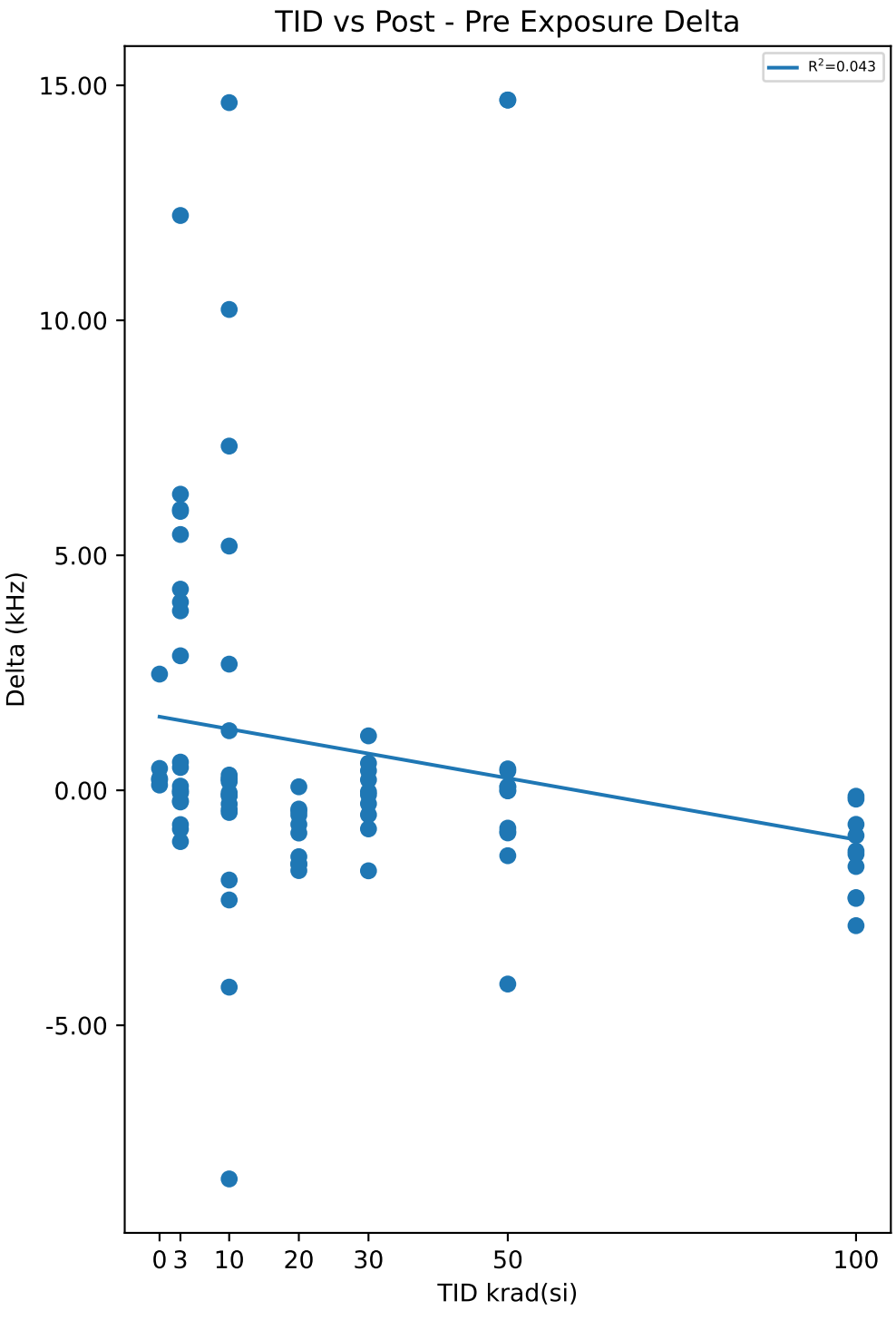
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	56.234	57.995	1.7616
51	3	Biased	56.236	52.675	-3.5603
52	3	Biased	53.606	50.389	-3.2175
53	3	Biased	54.667	54.187	-0.4803
54	3	Biased	51.119	56.283	5.1636
55	3	Unbiased	57.134	59.327	2.1932
56	3	Unbiased	53.365	54.102	0.7368
57	3	Unbiased	52.535	49.285	-3.2509
58	3	Unbiased	54.451	51.941	-2.5097
59	3	Unbiased	54.053	61.426	7.373
60	10	Biased	55.35	55.971	0.6213
61	10	Biased	52.495	55.923	3.4283
62	10	Biased	55.72	56.757	1.0366
63	10	Biased	55.274	57.155	1.8815
64	10	Biased	54.33	52.524	-1.8058
65	10	Unbiased	53.331	51.155	-2.1763
66	10	Unbiased	55.231	54.263	-0.9683
67	10	Unbiased	49.223	54.573	5.3506
68	10	Unbiased	52.812	53.204	0.3925
69	10	Unbiased	50.452	53.068	2.616
100	20	Biased	50.362	53.703	3.3407
200	20	Biased	48.96	49.308	0.3477
300	20	Biased	57.303	57.45	0.1469
400	20	Biased	57.811	58.249	0.4377
500	20	Biased	51.54	51.899	0.3587
600	20	Unbiased	58.859	59.384	0.5252
700	20	Unbiased	55.511	55.975	0.4636
800	20	Unbiased	55.414	55.993	0.5793
900	20	Unbiased	52.387	52.855	0.4673
1000	20	Unbiased	56.608	56.873	0.2652
1100	30	Biased	52.662	53.358	0.6959
1200	30	Biased	53.497	54.137	0.6398
1300	30	Biased	54.737	55.393	0.656
1400	30	Biased	54.681	55.031	0.3508
1500	30	Biased	54.831	55.485	0.6536
1600	30	Unbiased	54.346	54.949	0.6027
1700	30	Unbiased	51.758	52.462	0.7031
1800	30	Unbiased	53.482	54.102	0.62
1900	30	Unbiased	51.817	52.537	0.7194
2000	30	Unbiased	53.216	53.777	0.5607
2100	50	Biased-84Hr-Anneal	51.622	54.012	2.3895
2200	50	Biased-84Hr-Anneal	54.046	59.919	5.8731
2300	50	Biased-84Hr-Anneal	55.13	55.847	0.7174
2400	50	Biased-84Hr-Anneal	54.136	54.804	0.6674
2500	50	Biased-84Hr-Anneal	53.255	54.035	0.7795
2600	50	Unbiased	50.997	51.536	0.539
2700	50	Unbiased	55.837	57.223	1.3859
2800	50	Unbiased	53.463	54.305	0.8418
2900	50	Unbiased	54.979	55.908	0.9292
3000	50	Unbiased	53.911	55.005	1.0933
4000	100	Biased-168Hr-Anneal	54.472	56.03	1.5574
4100	100	Biased-168Hr-Anneal	52.674	53.615	0.9412
4200	100	Biased-168Hr-Anneal	53.5	54.438	0.9385
4300	100	Biased-168Hr-Anneal	61.344	63.257	1.9123
4400	100	Biased-168Hr-Anneal	50.944	52.241	1.2975
4500	100	Unbiased-168Hr-Anneal	54.82	56.355	1.535
4600	100	Unbiased-168Hr-Anneal	56.064	57.893	1.829
4700	100	Unbiased-168Hr-Anneal	52.716	54.33	1.6141
4800	100	Unbiased-168Hr-Anneal	50.652	51.873	1.2211
4900	100	Unbiased-168Hr-Anneal	50.65	52.098	1.4475
9300	0	CORRELATION	53.367	50.39	-2.9773
9400	0	CORRELATION	54.896	54.919	0.0235
9500	0	CORRELATION	55.842	55.871	0.0293
9600	0	CORRELATION	57.001	57.006	0.0047
9700	0	CORRELATION	53.657	53.684	0.0275

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	53.367	54.952	57.001	1.5151	50.39	54.374	57.006	2.5403	-2.9773	-0.57846	0.0293	1.341
3	51.119	54.34	57.134	1.835	49.285	54.761	61.426	3.9471	-3.5603	0.42095	7.373	3.7688
10	49.223	53.422	55.72	2.2166	51.155	54.459	57.155	1.9777	-2.1763	1.0376	5.3506	2.3699
20	48.96	54.475	58.859	3.4181	49.308	55.169	59.384	3.1489	0.1469	0.69323	3.3407	0.93882
30	51.758	53.503	54.831	1.1576	52.462	54.123	55.485	1.1034	0.3508	0.6202	0.7194	0.10627
50	50.997	53.738	55.837	1.508	51.536	55.259	59.919	2.2221	0.539	1.5216	5.8731	1.6192
100	50.65	53.784	61.344	3.2328	51.873	55.213	63.257	3.4558	0.9385	1.4294	1.9123	0.33249

Device Test: 24.19 FREQ|500kHz/SYNC1/4.5//90.9k//@EXT_SET_FREQ_500kHz





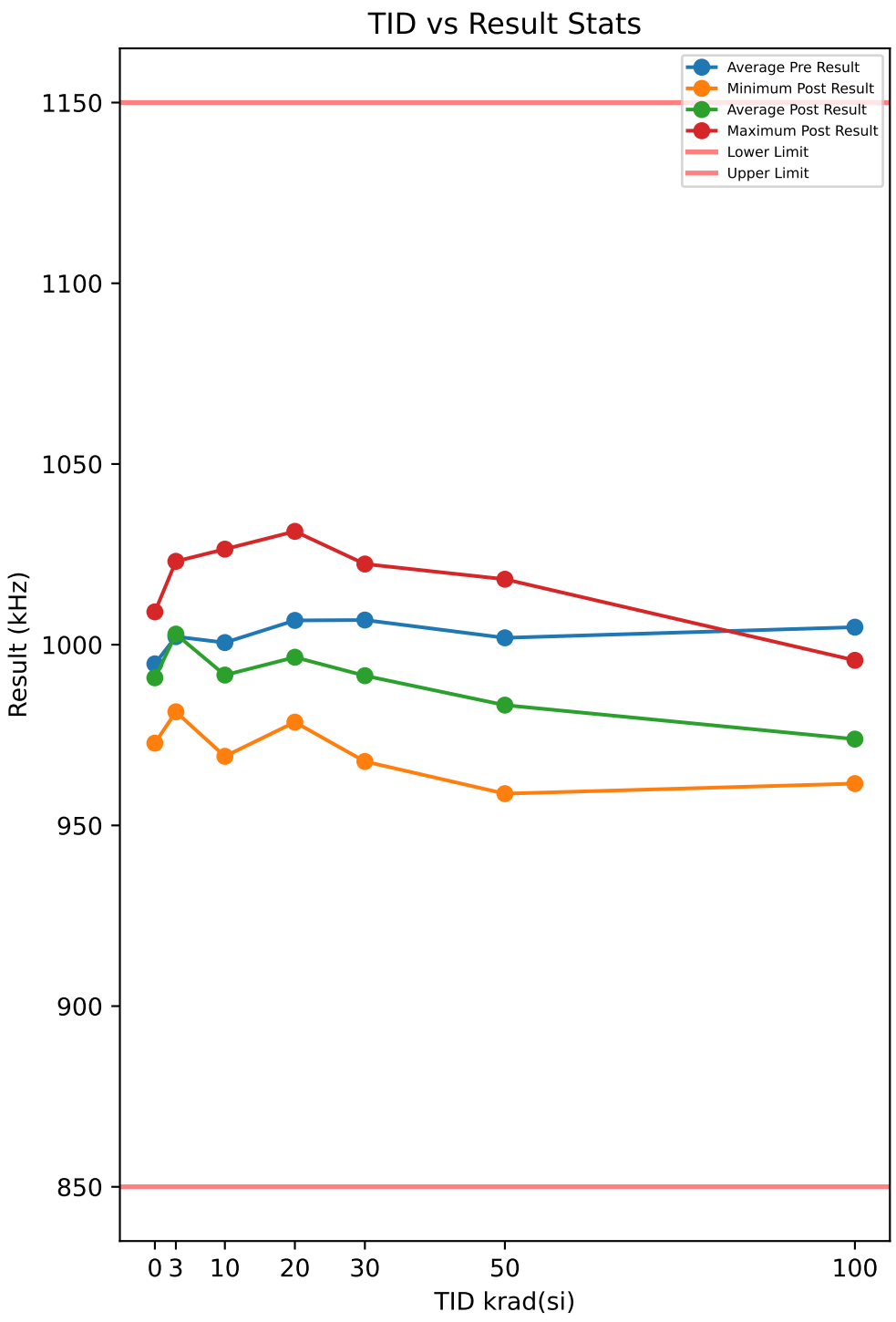
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

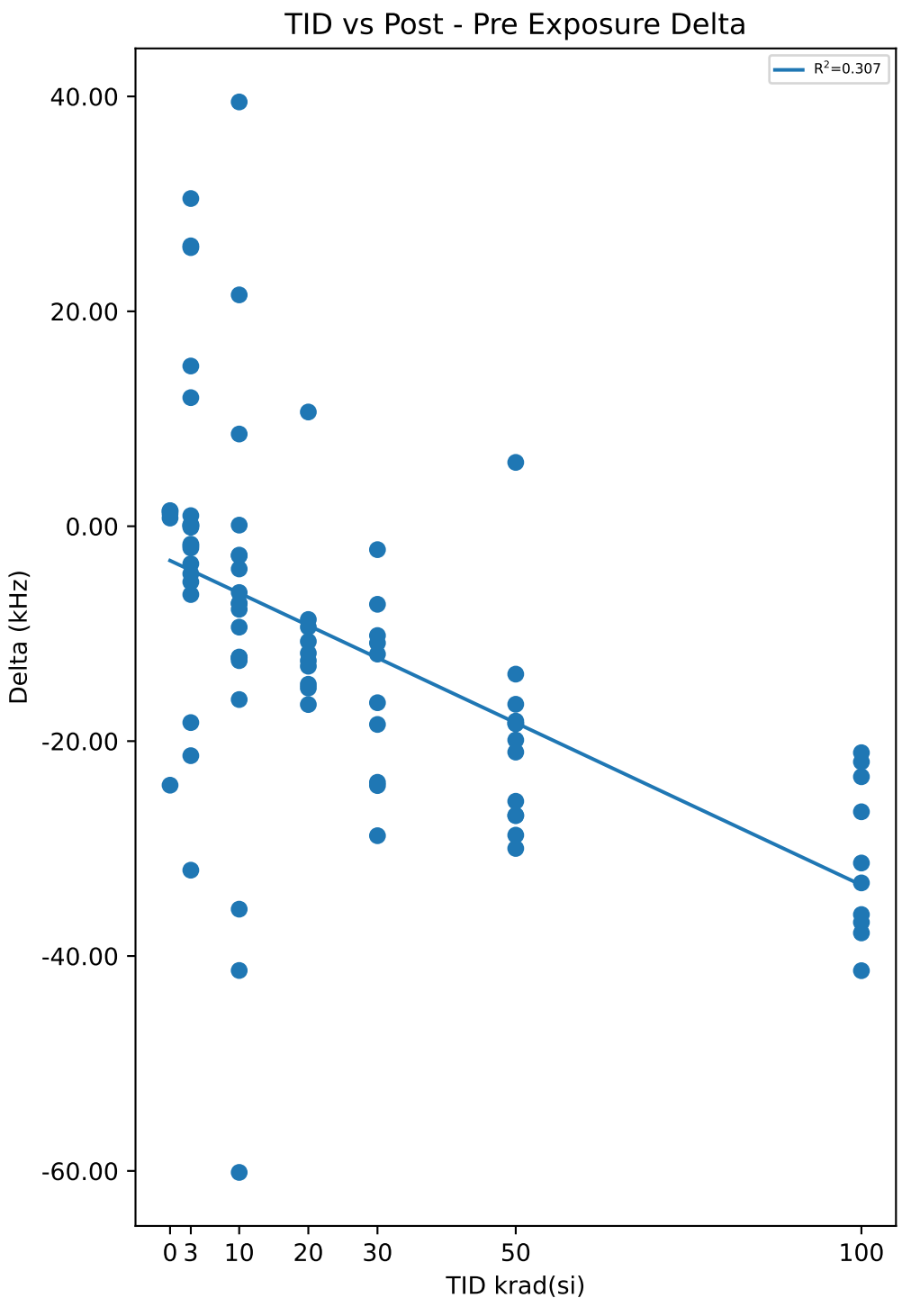
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	502.06	508.03	5.9747
51	3	Biased	509.59	508.5	-1.0909
52	3	Biased	501.58	513.81	12.231
53	3	Biased	504.55	508.37	3.8181
54	3	Biased	504.35	507.21	2.862
55	3	Unbiased	503.43	508.87	5.4429
56	3	Unbiased	500.89	505.17	4.2796
57	3	Unbiased	506.49	512.42	5.9349
58	3	Unbiased	507.13	513.43	6.3002
59	3	Unbiased	506.44	510.44	4.0051
60	10	Biased	508.92	514.12	5.1967
61	10	Biased	499.51	514.14	14.632
62	10	Biased	502.5	512.74	10.231
63	10	Biased	509.7	507.36	-2.3335
64	10	Biased	510.41	502.14	-8.2691
65	10	Unbiased	505.84	508.53	2.6847
66	10	Unbiased	505.88	501.69	-4.1883
67	10	Unbiased	508.39	508.57	0.1834
68	10	Unbiased	510.31	508.4	-1.9093
69	10	Unbiased	505.09	512.41	7.3242
100	20	Biased	504.89	503.19	-1.708
200	20	Biased	505.82	504.41	-1.4125
300	20	Biased	508.42	506.87	-1.557
400	20	Biased	510.57	509.85	-0.7255
500	20	Biased	509.78	509.26	-0.5264
600	20	Unbiased	499.74	498.16	-1.5826
700	20	Unbiased	507.12	506.67	-0.443
800	20	Unbiased	507.86	507.46	-0.3994
900	20	Unbiased	509.65	508.74	-0.9089
1000	20	Unbiased	504.88	504.95	0.0749
1100	30	Biased	505.7	505.93	0.2232
1200	30	Biased	507.33	506.81	-0.5202
1300	30	Biased	501.51	502.67	1.1586
1400	30	Biased	504.1	504.07	-0.0295
1500	30	Biased	506.9	506.08	-0.821
1600	30	Unbiased	508.57	508.28	-0.286
1700	30	Unbiased	509.86	508.15	-1.7129
1800	30	Unbiased	510.14	510.05	-0.0941
1900	30	Unbiased	507.89	508.31	0.4174
2000	30	Unbiased	504.88	505.45	0.5771
2100	50	Biased-84Hr-Anneal	502.12	516.81	14.688
2200	50	Biased-84Hr-Anneal	507.13	503.01	-4.1223
2300	50	Biased-84Hr-Anneal	509.1	508.23	-0.8772
2400	50	Biased-84Hr-Anneal	504.89	504.09	-0.8048
2500	50	Biased-84Hr-Anneal	511.48	511.48	-0.0036
2600	50	Unbiased	508.28	508.27	-0.0113
2700	50	Unbiased	503.52	503.93	0.4137
2800	50	Unbiased	500.59	501.05	0.4557
2900	50	Unbiased	507.99	506.6	-1.3915
3000	50	Unbiased	506.45	505.54	-0.9061
4000	100	Biased-168Hr-Anneal	505.87	504.58	-1.2925
4100	100	Biased-168Hr-Anneal	509.74	508.12	-1.621
4200	100	Biased-168Hr-Anneal	510.25	509.28	-0.963
4300	100	Biased-168Hr-Anneal	506.49	506.3	-0.1871
4400	100	Biased-168Hr-Anneal	505.38	505.26	-0.1262
4500	100	Unbiased-168Hr-Anneal	508.93	508.2	-0.7249
4600	100	Unbiased-168Hr-Anneal	510.41	507.52	-2.8801
4700	100	Unbiased-168Hr-Anneal	516.13	513.83	-2.3
4800	100	Unbiased-168Hr-Anneal	509.04	507.68	-1.3592
4900	100	Unbiased-168Hr-Anneal	515.26	512.98	-2.2827
9300	0	CORRELATION	502.75	505.22	2.4727
9400	0	CORRELATION	510.76	511.22	0.4656
9500	0	CORRELATION	504.89	505.11	0.2208
9600	0	CORRELATION	501.52	501.63	0.1117
9700	0	CORRELATION	505.31	505.57	0.2504

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	501.52	505.05	510.76	3.5514	501.63	505.75	511.22	3.4513	0.1117	0.70424	2.4727	0.99689
3	500.89	504.65	509.59	2.7684	505.17	509.62	513.81	2.8326	-1.0909	4.9757	12.231	3.3427
10	499.51	506.66	510.41	3.6037	501.69	509.01	514.14	4.4979	-8.2691	2.3552	14.632	7.0412
20	499.74	506.87	510.57	3.217	498.16	505.96	509.85	3.484	-1.708	-0.91884	0.0749	0.61369
30	501.51	506.69	510.14	2.691	502.67	506.58	510.05	2.2098	-1.7129	-0.10874	1.1586	0.7994
50	500.59	506.16	511.48	3.3623	501.05	506.9	516.81	4.6032	-4.1223	0.74401	14.688	5.0743
100	505.38	509.75	516.13	3.6167	504.58	508.38	513.83	3.0099	-2.8801	-1.3737	-0.1262	0.91745

Device Test: 24.20 FREQ|1MHz/SYNC1/4.5//34.8k//@EXT_SET_FREQ_1000kHz_4V5





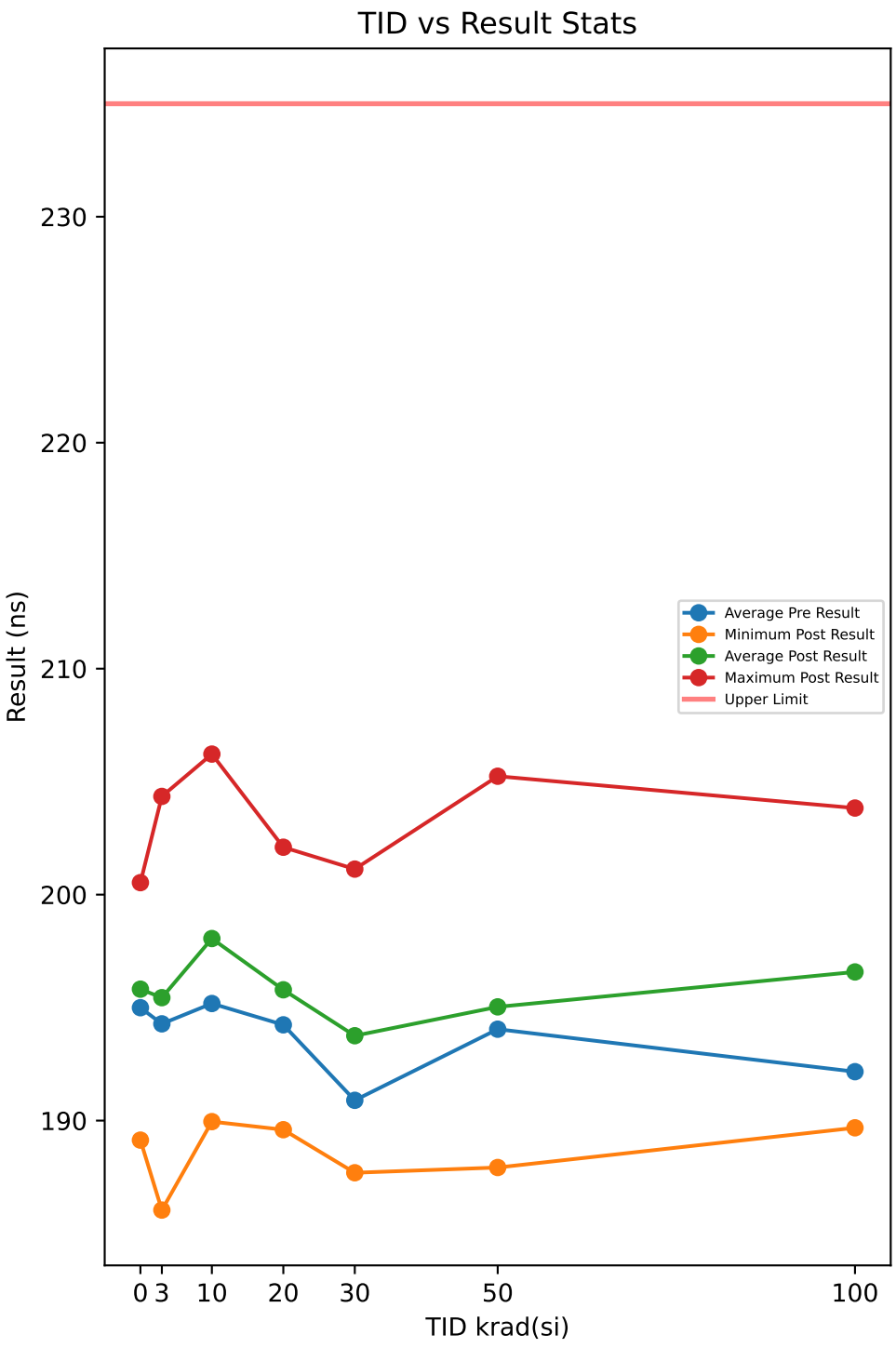
Test Results (Lower Limit = 850.0, Upper Limit = 1150.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1013.4	981.42	-32.011
51	3	Biased	988.11	983.68	-4.4247
52	3	Biased	971.4	1001.9	30.498
53	3	Biased	1022.3	1000.9	-21.354
54	3	Biased	1011.1	1023.1	11.967
55	3	Unbiased	1004.5	1019.4	14.91
56	3	Unbiased	984.83	1010.8	25.929
57	3	Unbiased	1008.3	990.06	-18.275
58	3	Unbiased	997.21	997.35	0.1457
59	3	Unbiased	994.55	1020.6	26.093
60	10	Biased	978.96	1000.5	21.53
61	10	Biased	986.95	1026.4	39.486
62	10	Biased	1005.6	989.44	-16.13
63	10	Biased	1021.5	1009	-12.51
64	10	Biased	1013.8	978.12	-35.639
65	10	Unbiased	1019	977.64	-41.345
66	10	Unbiased	982.86	982.96	0.1024
67	10	Unbiased	985.28	973.05	-12.235
68	10	Unbiased	1029.3	969.11	-60.139
69	10	Unbiased	1001.1	1009.7	8.5817
100	20	Biased	986.4	997.03	10.631
200	20	Biased	995.31	980.6	-14.708
300	20	Biased	1044.4	1031.4	-13.03
400	20	Biased	989.29	978.57	-10.721
500	20	Biased	1002	990.18	-11.812
600	20	Unbiased	1000.4	985.29	-15.061
700	20	Unbiased	1019.2	1010.6	-8.6787
800	20	Unbiased	1017.5	1000.9	-16.595
900	20	Unbiased	998.76	986.24	-12.517
1000	20	Unbiased	1013.9	1004.5	-9.3872
1100	30	Biased	1017.9	999.48	-18.449
1200	30	Biased	981.71	969.81	-11.902
1300	30	Biased	969.87	967.69	-2.1799
1400	30	Biased	1015.6	986.76	-28.802
1500	30	Biased	1010.9	987.06	-23.832
1600	30	Unbiased	981.87	971.69	-10.173
1700	30	Unbiased	1020.9	996.75	-24.136
1800	30	Unbiased	1033.2	1022.3	-10.868
1900	30	Unbiased	1024.6	1017.4	-7.2665
2000	30	Unbiased	1011.7	995.31	-16.427
2100	50	Biased-84Hr-Anneal	1007.3	988.96	-18.374
2200	50	Biased-84Hr-Anneal	1012.2	1018.1	5.9396
2300	50	Biased-84Hr-Anneal	987.77	971.2	-16.57
2400	50	Biased-84Hr-Anneal	1014.5	1000.7	-13.764
2500	50	Biased-84Hr-Anneal	1007.5	987.62	-19.898
2600	50	Unbiased	985.83	964.81	-21.024
2700	50	Unbiased	976.92	958.78	-18.135
2800	50	Unbiased	985.96	960.36	-25.596
2900	50	Unbiased	1024.9	994.87	-29.988
3000	50	Unbiased	1016.1	987.38	-28.751
4000	100	Biased-168Hr-Anneal	988.14	961.57	-26.576
4100	100	Biased-168Hr-Anneal	1018.2	985.01	-33.195
4200	100	Biased-168Hr-Anneal	1008.3	976.97	-31.343
4300	100	Biased-168Hr-Anneal	1008.5	970.62	-37.851
4400	100	Biased-168Hr-Anneal	985.01	963.08	-21.93
4500	100	Unbiased-168Hr-Anneal	984.77	963.69	-21.077
4600	100	Unbiased-168Hr-Anneal	1028.8	991.91	-36.866
4700	100	Unbiased-168Hr-Anneal	1037	995.68	-41.364
4800	100	Unbiased-168Hr-Anneal	999.19	963.05	-36.14
4900	100	Unbiased-168Hr-Anneal	990.53	967.22	-23.314
9300	0	CORRELATION	1011.7	987.58	-24.101
9400	0	CORRELATION	987.83	989.28	1.452
9500	0	CORRELATION	994.73	995.49	0.7584
9600	0	CORRELATION	1007.7	1009.1	1.411
9700	0	CORRELATION	971.58	972.76	1.1721

Test Statistics (kHz)

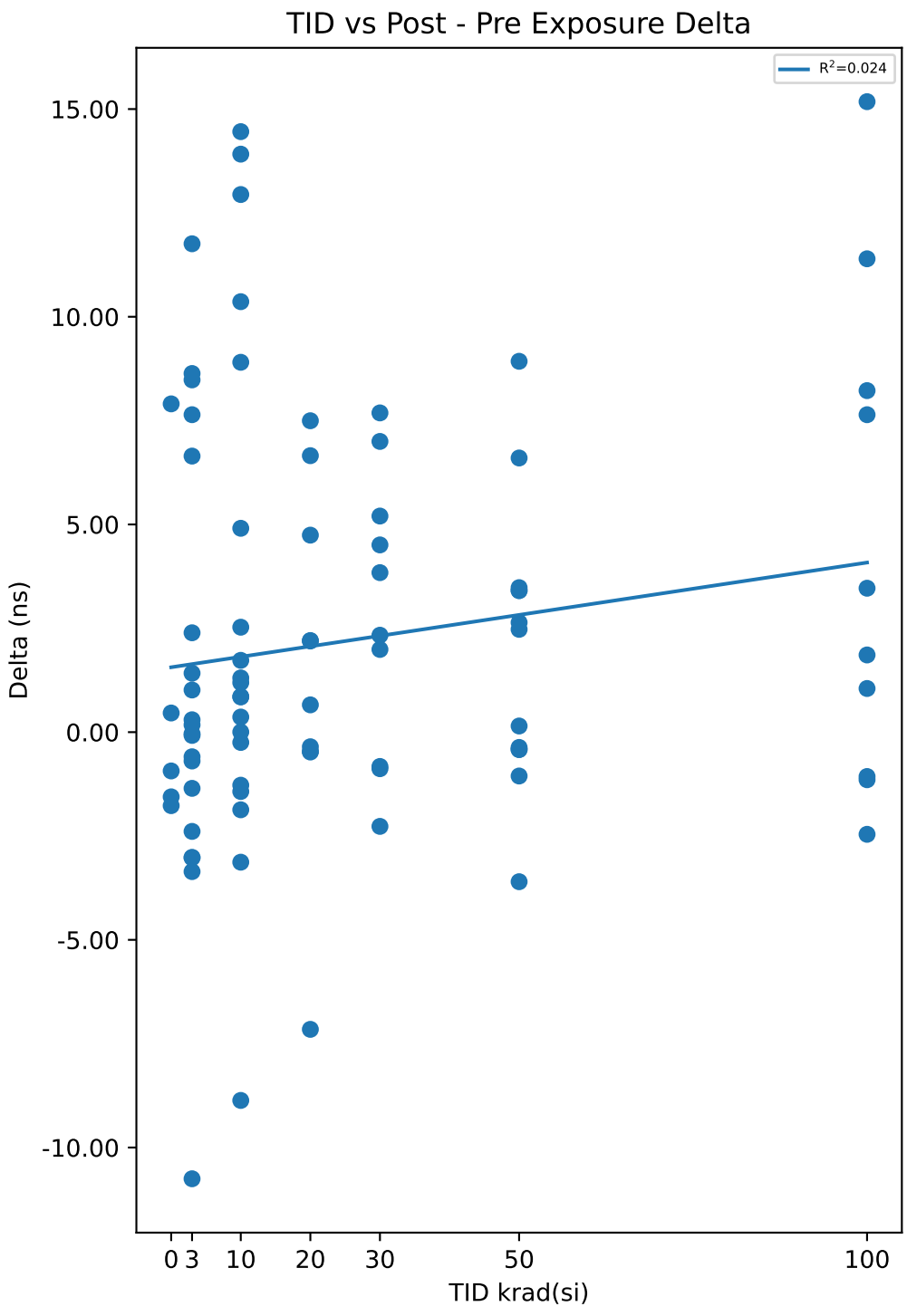
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	971.58	994.7	1011.7	16.109	972.76	990.84	1009.1	13.176	-24.101	-3.8616	1.452	11.318
3	971.4	999.58	1022.3	15.333	981.42	1002.9	1023.1	15.23	-32.011	3.3478	30.498	22.038
10	978.96	1002.4	1029.3	18.151	969.11	991.59	1026.4	18.938	-60.139	-10.83	39.486	29.974
20	986.4	1006.7	1044.4	17.375	978.57	996.53	1031.4	16.133	-16.595	-10.188	10.631	7.7316
30	969.87	1006.8	1033.2	21.263	967.69	991.42	1022.3	18.844	-28.802	-15.403	-2.1799	8.422
50	976.92	1001.9	1024.9	16.3	958.78	983.28	1018.1	19.245	-29.988	-18.616	5.9396	10.106
100	984.77	1004.8	1037	18.635	961.57	973.88	995.68	12.815	-41.364	-30.966	-21.077	7.299

Device Test: 24.22 TIMING|MINON/SW/4.5//511k//@ON_TIME_MIN_4V5



Test Results (Upper Limit = 235.0 (ns))

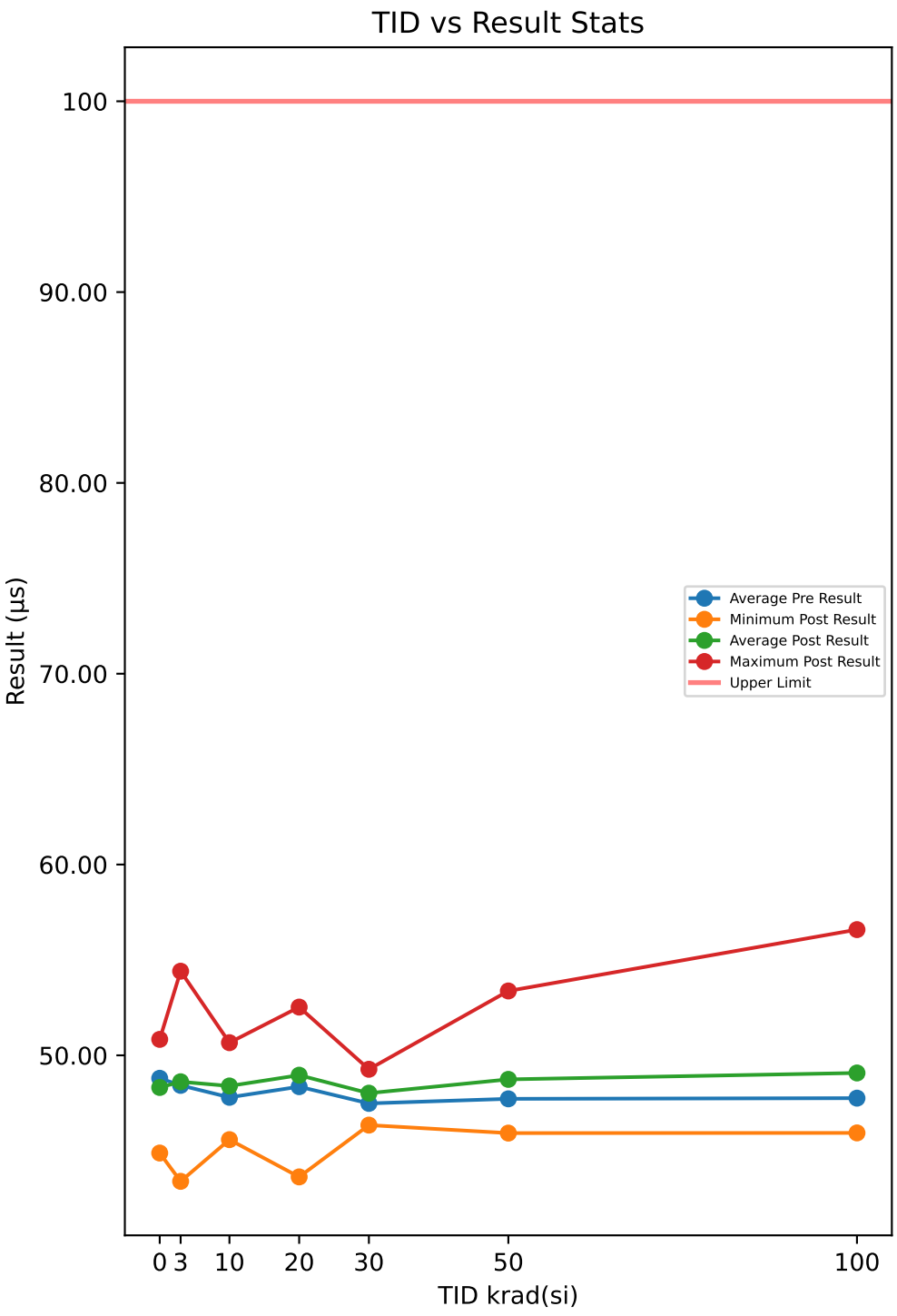
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	187.2	195.68	8.4803
51	3	Biased	193.64	190.62	-3.0154
52	3	Biased	196.79	186.04	-10.752
53	3	Biased	191.89	191.85	-0.037
54	3	Biased	193.09	189.73	-3.357
55	3	Unbiased	193.99	200.64	6.6459
56	3	Unbiased	198.68	197.99	-0.6944
57	3	Unbiased	186.97	198.73	11.757
58	3	Unbiased	191.12	198.77	7.6424
59	3	Unbiased	195.71	204.35	8.6338
60	10	Biased	190.93	201.29	10.363
61	10	Biased	192.99	194.18	1.1928
62	10	Biased	192.3	206.22	13.915
63	10	Biased	201.97	193.1	-8.8661
64	10	Biased	198.33	197.05	-1.2772
65	10	Unbiased	188.54	201.48	12.943
66	10	Unbiased	191.43	196.33	4.9077
67	10	Unbiased	194.03	202.93	8.904
68	10	Unbiased	183.56	198.02	14.457
69	10	Unbiased	189.59	189.96	0.3636
100	20	Biased	200.59	193.44	-7.1549
200	20	Biased	187.74	194.4	6.6559
300	20	Biased	190.4	189.94	-0.4632
400	20	Biased	192.47	193.13	0.657
500	20	Biased	201.7	201.35	-0.3516
600	20	Unbiased	191.86	199.36	7.4967
700	20	Unbiased	202.58	202.1	-0.4782
800	20	Unbiased	188.07	192.82	4.7426
900	20	Unbiased	199.57	201.78	2.2052
1000	20	Unbiased	187.4	189.6	2.1944
1100	30	Biased	187.03	189.36	2.3337
1200	30	Biased	190.32	195.52	5.2023
1300	30	Biased	189.96	187.69	-2.2685
1400	30	Biased	189.1	193.61	4.5076
1500	30	Biased	194.97	194.14	-0.8259
1600	30	Unbiased	197.29	201.13	3.84
1700	30	Unbiased	190.35	192.34	1.9909
1800	30	Unbiased	187.58	195.27	7.6855
1900	30	Unbiased	192.55	191.67	-0.8799
2000	30	Unbiased	189.83	196.83	6.9988
2100	50	Biased-84Hr-Anneal	189.92	193.33	3.4087
2200	50	Biased-84Hr-Anneal	191.31	190.26	-1.0558
2300	50	Biased-84Hr-Anneal	191.52	187.92	-3.6003
2400	50	Biased-84Hr-Anneal	197.45	197.6	0.1479
2500	50	Biased-84Hr-Anneal	196.2	195.83	-0.3681
2600	50	Unbiased	192.8	201.73	8.9278
2700	50	Unbiased	201.76	205.24	3.4788
2800	50	Unbiased	193.68	196.32	2.6398
2900	50	Unbiased	195.81	198.29	2.4749
3000	50	Unbiased	189.99	196.59	6.6002
4000	100	Biased-168Hr-Anneal	202.04	199.58	-2.4596
4100	100	Biased-168Hr-Anneal	185.78	194	8.2219
4200	100	Biased-168Hr-Anneal	201.99	200.92	-1.0681
4300	100	Biased-168Hr-Anneal	182.04	189.68	7.642
4400	100	Biased-168Hr-Anneal	196.76	195.62	-1.1455
4500	100	Unbiased-168Hr-Anneal	194.19	195.24	1.0509
4600	100	Unbiased-168Hr-Anneal	177.41	192.59	15.178
4700	100	Unbiased-168Hr-Anneal	200.37	203.83	3.4649
4800	100	Unbiased-168Hr-Anneal	194.6	196.46	1.8583
4900	100	Unbiased-168Hr-Anneal	186.47	197.86	11.396
9300	0	CORRELATION	192.63	200.53	7.903
9400	0	CORRELATION	198.72	197.78	-0.934
9500	0	CORRELATION	197.34	197.8	0.461
9600	0	CORRELATION	195.39	193.84	-1.5573
9700	0	CORRELATION	190.91	189.14	-1.7695

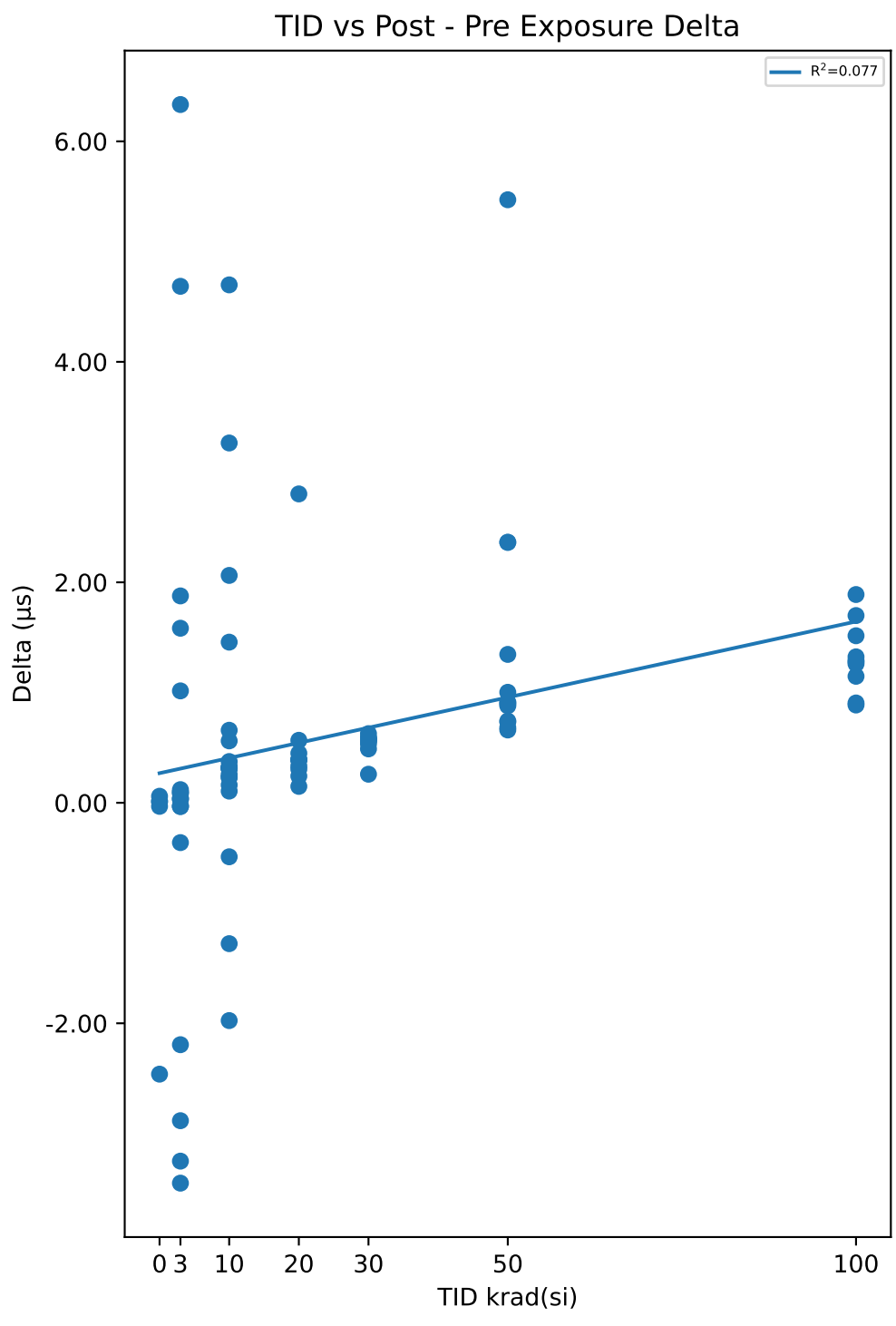


Test Statistics (ns)

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	190.91	195	198.72	3.2334	189.14	195.82	200.53	4.4319	-1.7695	0.82064	7.903	4.0537
3	186.97	192.91	198.68	3.8015	186.04	195.44	204.35	5.6943	-10.752	2.5304	11.757	7.1468
10	183.56	192.37	201.97	5.096	189.96	198.06	206.22	4.9637	-8.8661	5.6902	14.457	7.7381
20	187.4	194.24	202.58	6.186	189.6	195.79	202.1	4.8902	-7.1549	1.5504	7.4967	4.2272
30	187.03	190.9	197.29	3.1966	187.69	193.76	201.13	3.8274	-2.2685	2.8585	7.6855	3.4072
50	189.92	194.04	201.76	3.7695	187.92	196.31	205.24	5.0648	-3.6003	2.2654	8.9278	3.6968
100	177.41	192.16	202.04	8.7286	189.68	196.58	203.83	4.149	-2.4596	4.4138	15.178	5.9299

Device Test: 24.23 TIMING|DELAY/EN/4.5//511k//@T_EN_DELAY





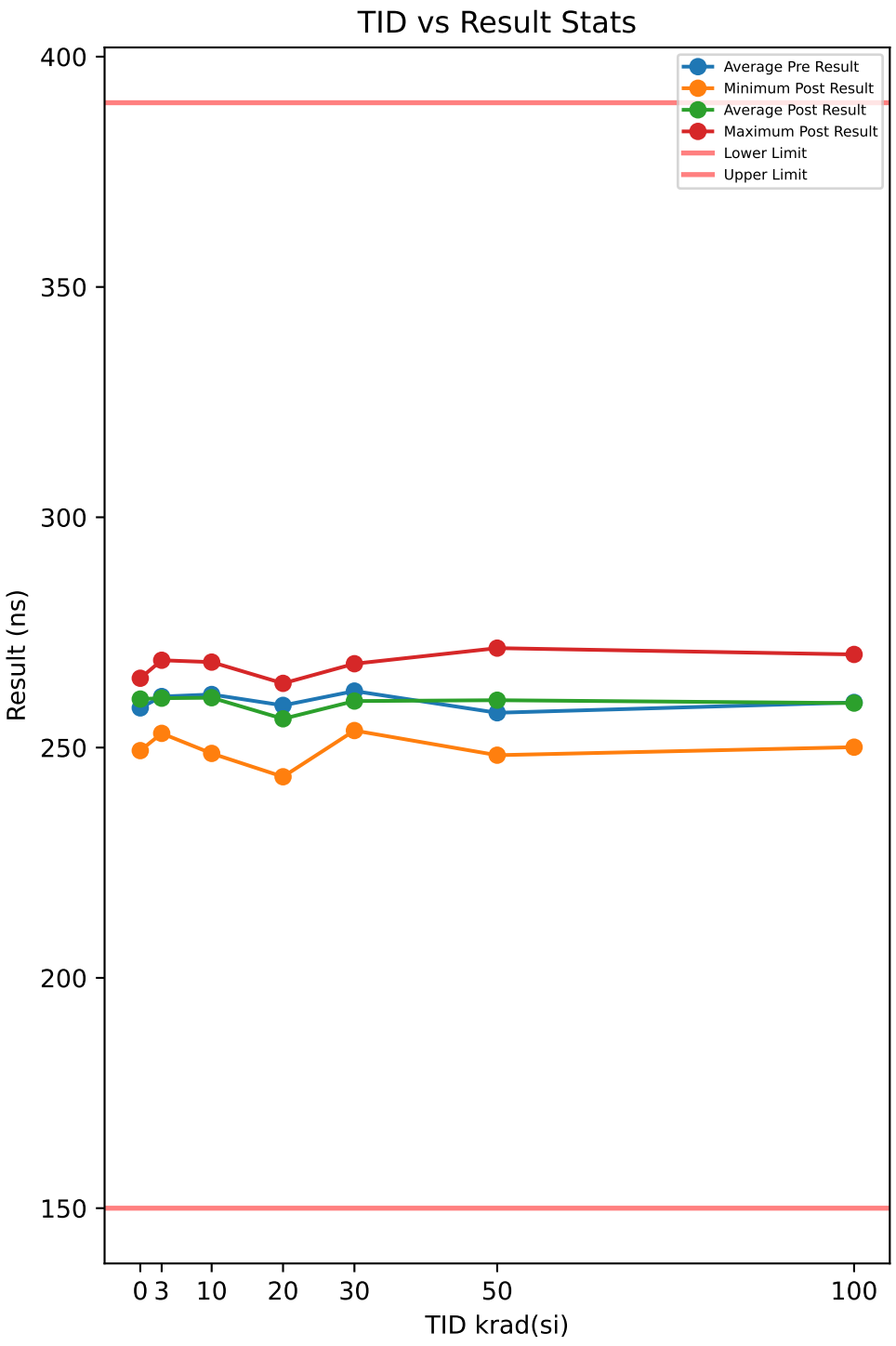
Test Results (Upper Limit = 100.0 (µs))

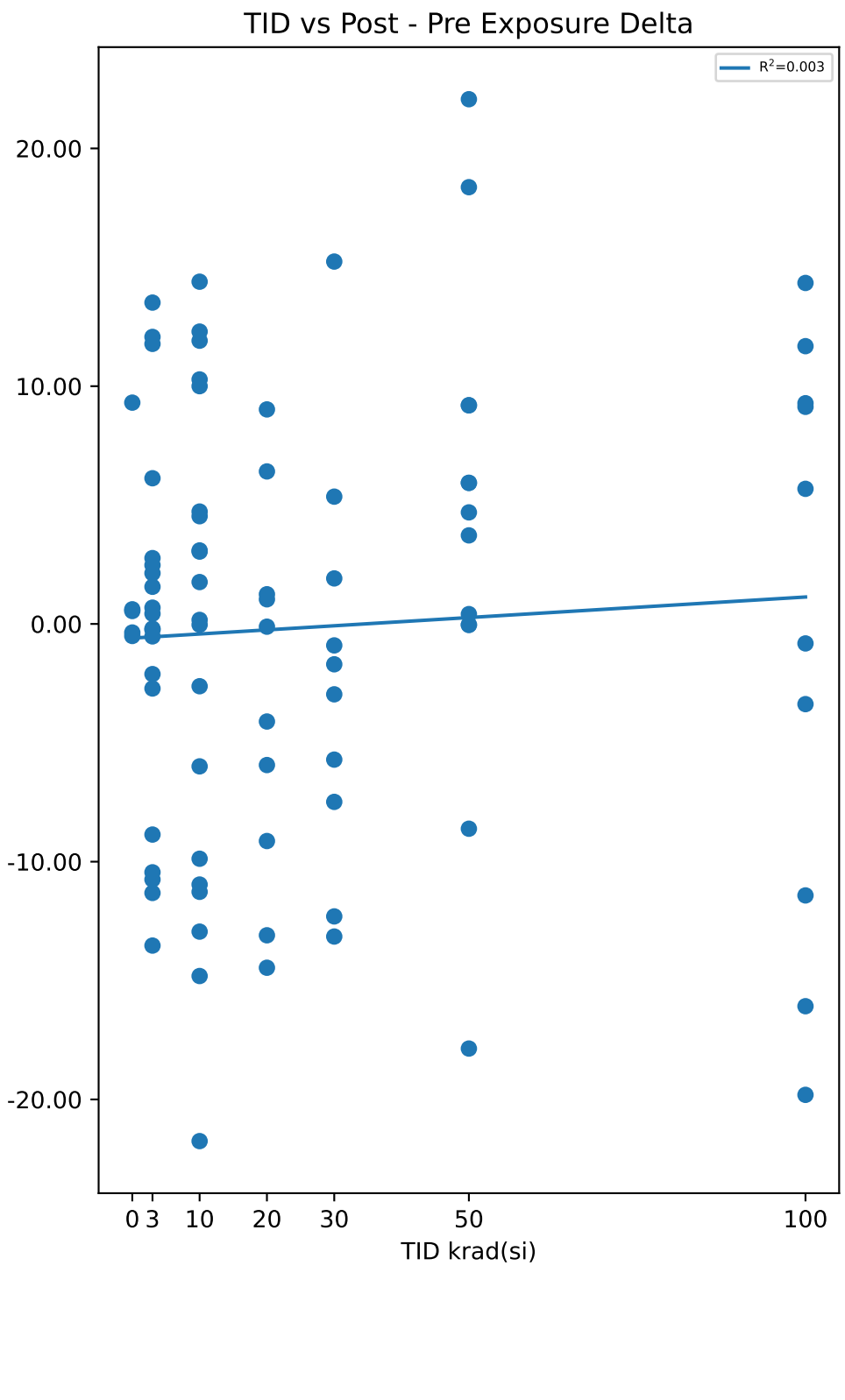
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	49.996	51.58	1.5835
51	3	Biased	50.158	46.708	-3.45
52	3	Biased	47.719	44.835	-2.8836
53	3	Biased	48.475	48.114	-0.3612
54	3	Biased	45.423	50.108	4.685
55	3	Unbiased	50.65	52.527	1.8766
56	3	Unbiased	47.186	48.201	1.0152
57	3	Unbiased	46.647	43.397	-3.2504
58	3	Unbiased	48.468	46.274	-2.1942
59	3	Unbiased	48.075	54.409	6.3338
60	10	Biased	49.224	49.786	0.5617
61	10	Biased	46.464	49.728	3.2638
62	10	Biased	49.498	50.156	0.6581
63	10	Biased	49.206	50.663	1.4572
64	10	Biased	48.113	46.835	-1.2777
65	10	Unbiased	47.558	45.582	-1.9755
66	10	Unbiased	49.027	48.537	-0.4897
67	10	Unbiased	43.838	48.536	4.6981
68	10	Unbiased	46.822	47.13	0.308
69	10	Unbiased	44.939	47.001	2.0625
100	20	Biased	44.896	47.698	2.8018
200	20	Biased	43.295	43.629	0.3342
300	20	Biased	50.952	51.101	0.1489
400	20	Biased	51.162	51.547	0.3857
500	20	Biased	45.702	46.007	0.305
600	20	Unbiased	52.08	52.529	0.4495
700	20	Unbiased	49.35	49.741	0.3914
800	20	Unbiased	49.258	49.825	0.567
900	20	Unbiased	46.481	46.876	0.3946
1000	20	Unbiased	50.403	50.645	0.2423
1100	30	Biased	46.713	47.28	0.5672
1200	30	Biased	47.652	48.186	0.5343
1300	30	Biased	48.495	49.081	0.5861
1400	30	Biased	48.55	48.809	0.2593
1500	30	Biased	48.678	49.27	0.5919
1600	30	Unbiased	48.368	48.857	0.489
1700	30	Unbiased	45.766	46.344	0.5782
1800	30	Unbiased	47.584	48.154	0.5702
1900	30	Unbiased	45.834	46.461	0.6273
2000	30	Unbiased	47.178	47.735	0.5572
2100	50	Biased-84Hr-Anneal	45.822	48.185	2.3628
2200	50	Biased-84Hr-Anneal	47.904	53.374	5.4701
2300	50	Biased-84Hr-Anneal	48.998	49.733	0.7348
2400	50	Biased-84Hr-Anneal	47.909	48.651	0.7417
2500	50	Biased-84Hr-Anneal	47.357	48.039	0.6814
2600	50	Unbiased	45.265	45.925	0.6605
2700	50	Unbiased	49.59	50.936	1.3461
2800	50	Unbiased	47.584	48.464	0.8798
2900	50	Unbiased	48.764	49.656	0.8925
3000	50	Unbiased	48.018	49.02	1.0024
4000	100	Biased-168Hr-Anneal	48.17	49.495	1.324
4100	100	Biased-168Hr-Anneal	46.566	47.453	0.8871
4200	100	Biased-168Hr-Anneal	47.695	48.601	0.9055
4300	100	Biased-168Hr-Anneal	54.7	56.589	1.8891
4400	100	Biased-168Hr-Anneal	45.382	46.642	1.2603
4500	100	Unbiased-168Hr-Anneal	48.475	49.766	1.2913
4600	100	Unbiased-168Hr-Anneal	49.92	51.618	1.6985
4700	100	Unbiased-168Hr-Anneal	46.958	48.473	1.5153
4800	100	Unbiased-168Hr-Anneal	44.788	45.935	1.1476
4900	100	Unbiased-168Hr-Anneal	44.911	46.19	1.2788
9300	0	CORRELATION	47.342	44.88	-2.4613
9400	0	CORRELATION	48.736	48.75	0.0144
9500	0	CORRELATION	49.537	49.596	0.0595
9600	0	CORRELATION	50.87	50.837	-0.0322
9700	0	CORRELATION	47.508	47.519	0.0103

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	47.342	48.798	50.87	1.4684	44.88	48.317	50.837	2.2707	-2.4613	-0.48186	0.0595	1.107
3	45.423	48.28	50.65	1.6515	43.397	48.615	54.409	3.5111	-3.45	0.33547	6.3338	3.3949
10	43.838	47.469	49.498	1.946	45.582	48.396	50.663	1.6959	-1.9755	0.92665	4.6981	2.0312
20	43.295	48.358	52.08	3.0296	43.629	48.96	52.529	2.8144	0.1489	0.60204	2.8018	0.78119
30	45.766	47.482	48.678	1.0938	46.344	48.018	49.27	1.0501	0.2593	0.53607	0.6273	0.10388
50	45.265	47.721	49.59	1.3399	45.925	49.198	53.374	1.9694	0.6605	1.4772	5.4701	1.493
100	44.788	47.756	54.7	2.9474	45.935	49.076	56.589	3.1781	0.8871	1.3198	1.8891	0.31628

Device Test: 24.3 TIMING|DELAY/SYNC1/4.5//OPEN//@SYNC1_SW_DELAY_INV_4V5





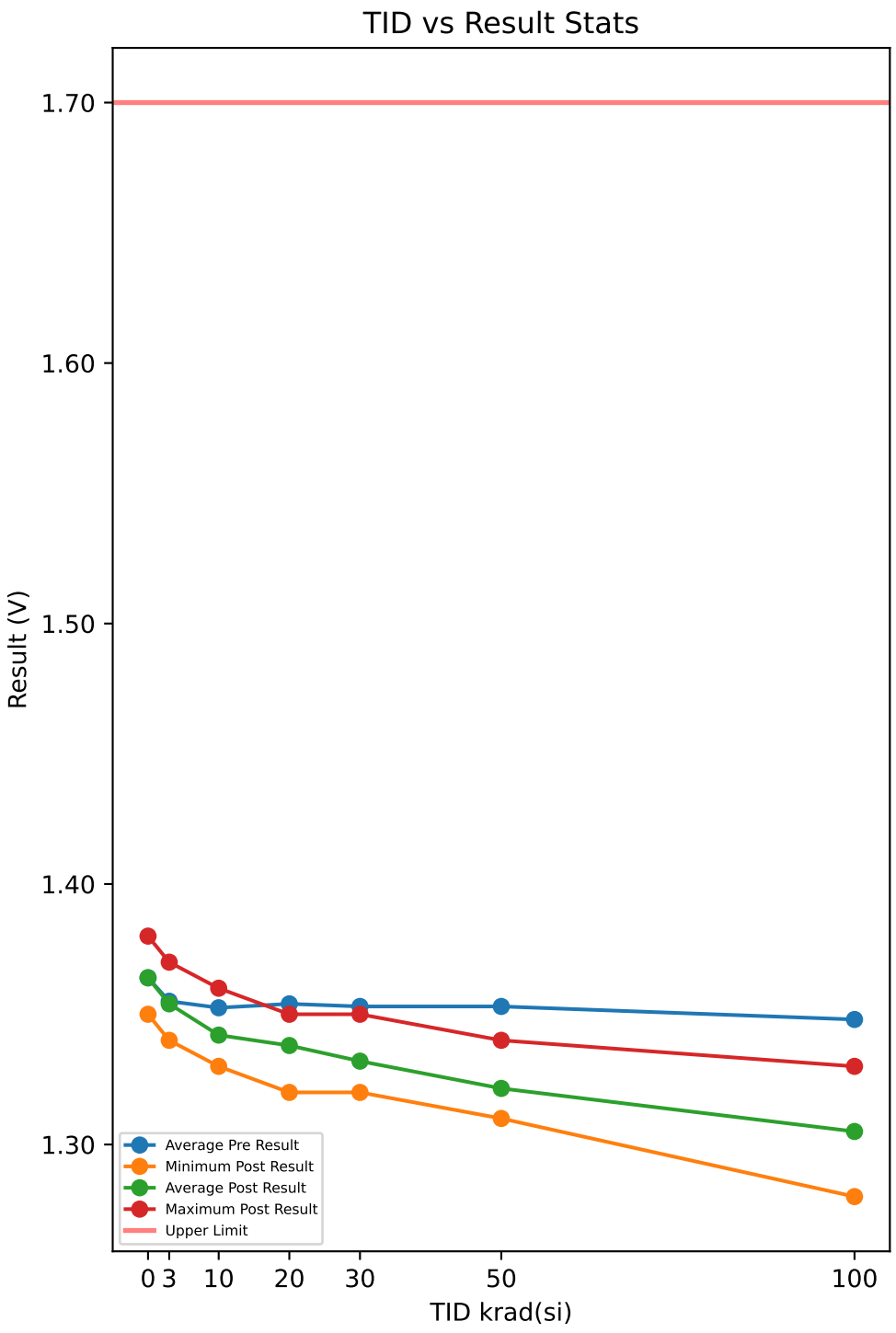
Test Results (Lower Limit = 150.0, Upper Limit = 390.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	269.16	268.96	-0.1975
51	3	Biased	255.2	253.09	-2.1098
52	3	Biased	268.87	255.34	-13.529
53	3	Biased	260.37	263.14	2.7689
54	3	Biased	262.72	265.19	2.4736
55	3	Unbiased	262.02	268.15	6.1278
56	3	Unbiased	265.02	254.57	-10.447
57	3	Unbiased	251.87	254.01	2.1346
58	3	Unbiased	268.08	259.22	-8.8592
59	3	Unbiased	264.85	265.54	0.6847
60	10	Biased	263.54	248.73	-14.809
61	10	Biased	250.68	260.97	10.284
62	10	Biased	270.77	259.5	-11.268
63	10	Biased	254.16	268.55	14.395
64	10	Biased	261.3	261.47	0.17
65	10	Unbiased	258.13	261.22	3.0916
66	10	Unbiased	274.2	252.44	-21.753
67	10	Unbiased	261.71	264.75	3.0422
68	10	Unbiased	270.22	264.23	-5.9909
69	10	Unbiased	256.35	266.35	10
100	20	Biased	263.27	254.13	-9.1314
200	20	Biased	263.82	250.73	-13.096
300	20	Biased	262.86	262.74	-0.1157
400	20	Biased	256.7	257.95	1.2482
500	20	Biased	243.89	244.92	1.0357
600	20	Unbiased	269.69	263.76	-5.9355
700	20	Unbiased	254.32	260.74	6.4142
800	20	Unbiased	258.12	243.66	-14.461
900	20	Unbiased	250.87	259.9	9.0226
1000	20	Unbiased	268.05	263.94	-4.1045
1100	30	Biased	259.4	253.7	-5.7072
1200	30	Biased	258.95	255.99	-2.9608
1300	30	Biased	252.96	268.2	15.241
1400	30	Biased	272.67	259.52	-13.149
1500	30	Biased	258.09	260.01	1.9145
1600	30	Unbiased	266.39	264.69	-1.6979
1700	30	Unbiased	255.31	254.41	-0.903
1800	30	Unbiased	268.89	261.41	-7.485
1900	30	Unbiased	261.38	266.74	5.3538
2000	30	Unbiased	268.63	256.33	-12.302
2100	50	Biased-84Hr-Anneal	251.71	260.91	9.1965
2200	50	Biased-84Hr-Anneal	249.52	271.59	22.07
2300	50	Biased-84Hr-Anneal	251.38	269.75	18.37
2400	50	Biased-84Hr-Anneal	251.36	256.05	4.6918
2500	50	Biased-84Hr-Anneal	259.99	263.72	3.7248
2600	50	Unbiased	266.21	248.35	-17.86
2700	50	Unbiased	260.65	260.6	-0.0437
2800	50	Unbiased	264.43	264.85	0.4137
2900	50	Unbiased	251.63	251.6	-0.0307
3000	50	Unbiased	268.68	260.07	-8.6137
4000	100	Biased-168Hr-Anneal	249.36	263.7	14.341
4100	100	Biased-168Hr-Anneal	272.1	256.02	-16.079
4200	100	Biased-168Hr-Anneal	250.8	256.48	5.6826
4300	100	Biased-168Hr-Anneal	271.04	270.22	-0.8202
4400	100	Biased-168Hr-Anneal	256.97	266.25	9.2829
4500	100	Unbiased-168Hr-Anneal	253.49	265.18	11.683
4600	100	Unbiased-168Hr-Anneal	274.31	262.89	-11.419
4700	100	Unbiased-168Hr-Anneal	246.38	255.51	9.1311
4800	100	Unbiased-168Hr-Anneal	253.6	250.23	-3.3732
4900	100	Unbiased-168Hr-Anneal	269.89	250.09	-19.807
9300	0	CORRELATION	254.54	263.85	9.3079
9400	0	CORRELATION	265.41	265.05	-0.3607
9500	0	CORRELATION	248.72	249.34	0.6155
9600	0	CORRELATION	262.35	262.89	0.5432
9700	0	CORRELATION	262.04	261.53	-0.5069

Test Statistics (ns)

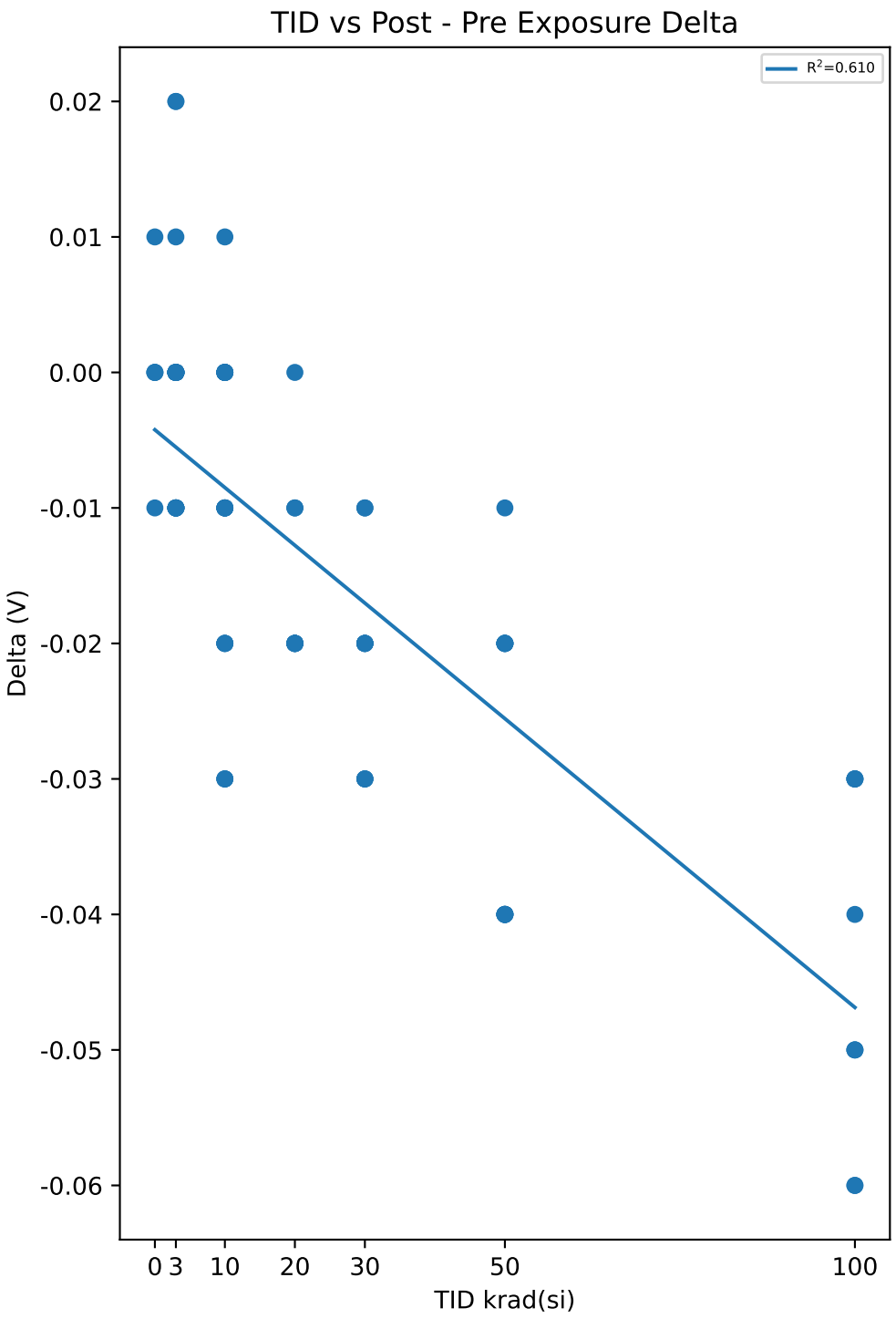
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	248.72	258.61	265.41	6.825	249.34	260.53	265.05	6.3893	-0.5069	1.9198	9.3079	4.1614
3	251.87	262.82	269.16	5.755	253.09	260.72	268.96	6.1858	-13.529	-2.0952	6.1278	6.5625
10	250.68	262.11	274.2	7.6918	248.73	260.82	268.55	6.1119	-21.753	-1.2838	14.395	11.882
20	243.89	259.16	269.69	7.9905	243.66	256.25	263.94	7.5696	-14.461	-2.9123	9.0226	7.8631
30	252.96	262.27	272.67	6.5145	253.7	260.1	268.2	5.1359	-13.149	-2.1695	15.241	8.4514
50	249.52	257.56	268.68	7.2417	248.35	260.75	271.59	7.3353	-17.86	3.1918	22.07	11.721
100	246.38	259.79	274.31	10.782	250.09	259.66	270.22	6.9386	-19.807	-0.13783	14.341	12.189

Device Test: 24.4 THRESHOLD|RISE/SYNC1/4.5//OPEN//@SYNC1_VIH



Test Results (Upper Limit = 1.7 (V))

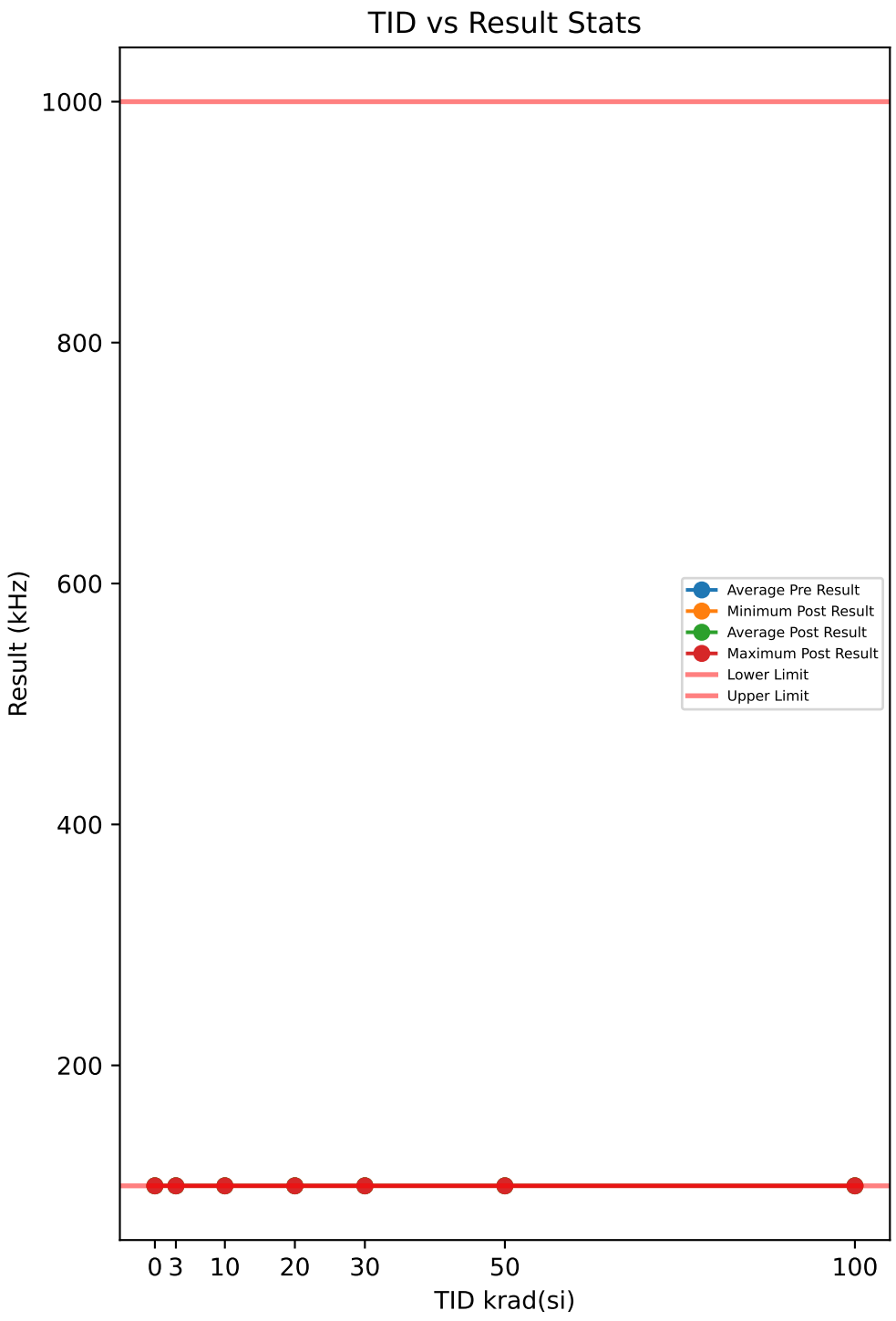
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.34	1.35	0.01
51	3	Biased	1.36	1.36	0
52	3	Biased	1.35	1.37	0.02
53	3	Biased	1.34	1.36	0.02
54	3	Biased	1.35	1.34	-0.01
55	3	Unbiased	1.36	1.35	-0.01
56	3	Unbiased	1.36	1.36	0
57	3	Unbiased	1.35	1.35	0
58	3	Unbiased	1.37	1.36	-0.01
59	3	Unbiased	1.34	1.34	0
60	10	Biased	1.37	1.34	-0.03
61	10	Biased	1.36	1.33	-0.03
62	10	Biased	1.36	1.33	-0.03
63	10	Biased	1.33	1.33	0
64	10	Biased	1.36	1.36	0
65	10	Unbiased	1.34	1.35	0.01
66	10	Unbiased	1.36	1.36	0
67	10	Unbiased	1.35	1.33	-0.02
68	10	Unbiased	1.35	1.35	0
69	10	Unbiased	1.35	1.34	-0.01
100	20	Biased	1.35	1.34	-0.01
200	20	Biased	1.35	1.34	-0.01
300	20	Biased	1.35	1.33	-0.02
400	20	Biased	1.36	1.34	-0.02
500	20	Biased	1.35	1.35	0
600	20	Unbiased	1.36	1.34	-0.02
700	20	Unbiased	1.34	1.32	-0.02
800	20	Unbiased	1.36	1.34	-0.02
900	20	Unbiased	1.36	1.34	-0.02
1000	20	Unbiased	1.36	1.34	-0.02
1100	30	Biased	1.34	1.33	-0.01
1200	30	Biased	1.37	1.34	-0.03
1300	30	Biased	1.35	1.33	-0.02
1400	30	Biased	1.36	1.34	-0.02
1500	30	Biased	1.36	1.35	-0.01
1600	30	Unbiased	1.36	1.34	-0.02
1700	30	Unbiased	1.35	1.32	-0.03
1800	30	Unbiased	1.35	1.32	-0.03
1900	30	Unbiased	1.34	1.32	-0.02
2000	30	Unbiased	1.35	1.33	-0.02
2100	50	Biased-84Hr-Anneal	1.34	1.32	-0.02
2200	50	Biased-84Hr-Anneal	1.37	1.33	-0.04
2300	50	Biased-84Hr-Anneal	1.35	1.34	-0.01
2400	50	Biased-84Hr-Anneal	1.35	1.33	-0.02
2500	50	Biased-84Hr-Anneal	1.34	1.32	-0.02
2600	50	Unbiased	1.35	1.31	-0.04
2700	50	Unbiased	1.35	1.31	-0.04
2800	50	Unbiased	1.36	1.32	-0.04
2900	50	Unbiased	1.36	1.32	-0.04
3000	50	Unbiased	1.36	1.32	-0.04
4000	100	Biased-168Hr-Anneal	1.35	1.31	-0.04
4100	100	Biased-168Hr-Anneal	1.34	1.31	-0.03
4200	100	Biased-168Hr-Anneal	1.36	1.33	-0.03
4300	100	Biased-168Hr-Anneal	1.35	1.32	-0.03
4400	100	Biased-168Hr-Anneal	1.35	1.32	-0.03
4500	100	Unbiased-168Hr-Anneal	1.36	1.3	-0.06
4600	100	Unbiased-168Hr-Anneal	1.34	1.28	-0.06
4700	100	Unbiased-168Hr-Anneal	1.33	1.28	-0.05
4800	100	Unbiased-168Hr-Anneal	1.34	1.29	-0.05
4900	100	Unbiased-168Hr-Anneal	1.36	1.31	-0.05
9300	0	CORRELATION	1.35	1.35	0
9400	0	CORRELATION	1.36	1.37	0.01
9500	0	CORRELATION	1.38	1.38	0
9600	0	CORRELATION	1.36	1.36	0
9700	0	CORRELATION	1.37	1.36	-0.01



Test Statistics (V)

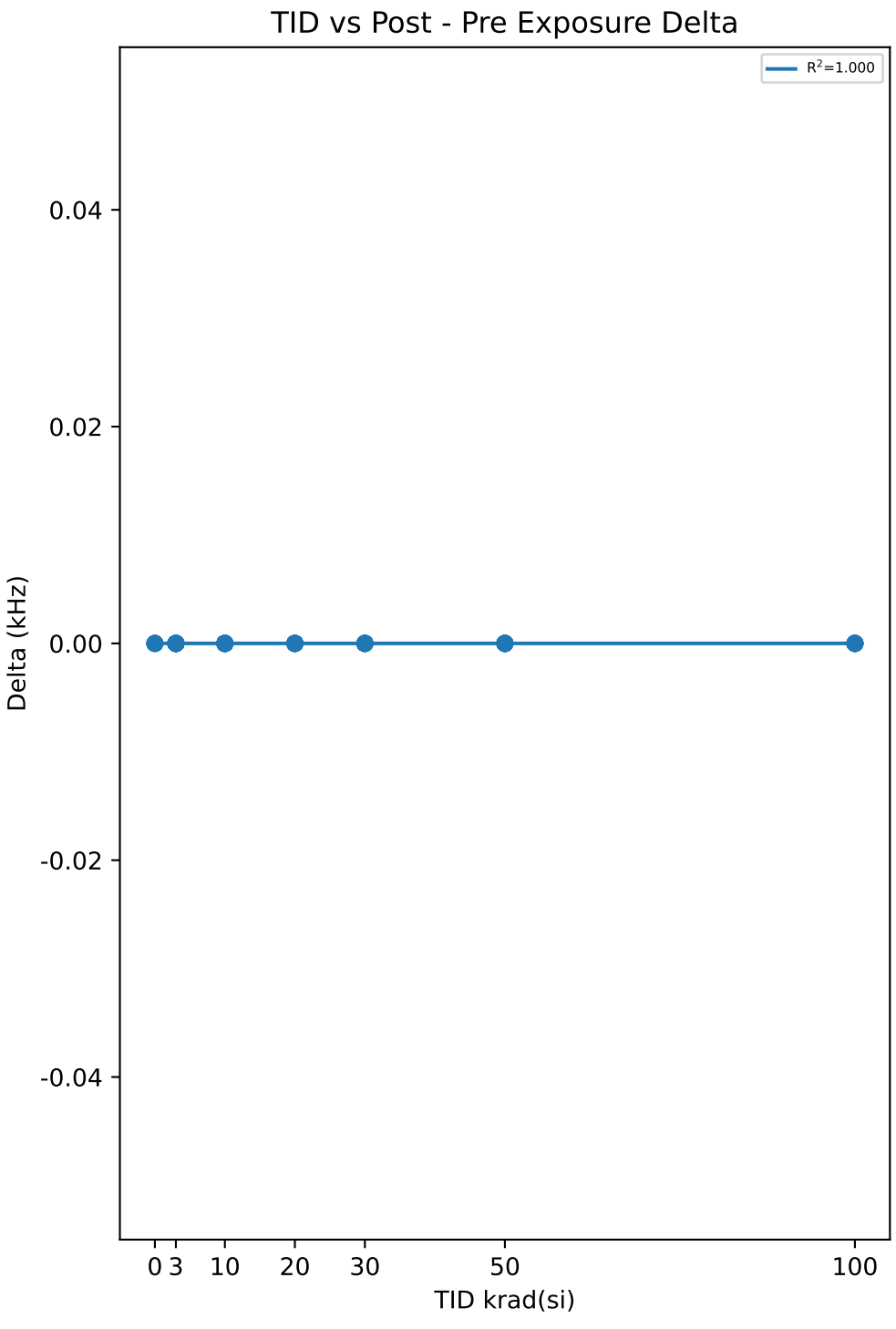
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.35	1.364	1.38	0.011402	1.35	1.364	1.38	0.011402	-0.01	0	0.01	0.0070711
3	1.34	1.352	1.37	0.010328	1.34	1.354	1.37	0.0096609	-0.01	0.002	0.02	0.011353
10	1.33	1.353	1.37	0.011595	1.33	1.342	1.36	0.012293	-0.03	-0.011	0.01	0.015239
20	1.34	1.354	1.36	0.0069921	1.32	1.338	1.35	0.0078881	-0.02	-0.016	0	0.0069921
30	1.34	1.353	1.37	0.0094868	1.32	1.332	1.35	0.010328	-0.03	-0.021	-0.01	0.0073786
50	1.34	1.353	1.37	0.0094868	1.31	1.322	1.34	0.0091894	-0.04	-0.031	-0.01	0.011972
100	1.33	1.348	1.36	0.010328	1.28	1.305	1.33	0.017159	-0.06	-0.043	-0.03	0.012517

Device Test: 24.47 FREQ|100kHz/SYNC1/5//OPEN//@SYNC_FREQ_RANGE



Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	100	100	0
51	3	Biased	100	100	0
52	3	Biased	100	100	0
53	3	Biased	100	100	0
54	3	Biased	100	100	0
55	3	Unbiased	100	100	0
56	3	Unbiased	100	100	0
57	3	Unbiased	100	100	0
58	3	Unbiased	100	100	0
59	3	Unbiased	100	100	0
60	10	Biased	100	100	0
61	10	Biased	100	100	0
62	10	Biased	100	100	0
63	10	Biased	100	100	0
64	10	Biased	100	100	0
65	10	Unbiased	100	100	0
66	10	Unbiased	100	100	0
67	10	Unbiased	100	100	0
68	10	Unbiased	100	100	0
69	10	Unbiased	100	100	0
100	20	Biased	100	100	0
200	20	Biased	100	100	0
300	20	Biased	100	100	0
400	20	Biased	100	100	0
500	20	Biased	100	100	0
600	20	Unbiased	100	100	0
700	20	Unbiased	100	100	0
800	20	Unbiased	100	100	0
900	20	Unbiased	100	100	0
1000	20	Unbiased	100	100	0
1100	30	Biased	100	100	0
1200	30	Biased	100	100	0
1300	30	Biased	100	100	0
1400	30	Biased	100	100	0
1500	30	Biased	100	100	0
1600	30	Unbiased	100	100	0
1700	30	Unbiased	100	100	0
1800	30	Unbiased	100	100	0
1900	30	Unbiased	100	100	0
2000	30	Unbiased	100	100	0
2100	50	Biased-84Hr-Anneal	100	100	0
2200	50	Biased-84Hr-Anneal	100	100	0
2300	50	Biased-84Hr-Anneal	100	100	0
2400	50	Biased-84Hr-Anneal	100	100	0
2500	50	Biased-84Hr-Anneal	100	100	0
2600	50	Unbiased	100	100	0
2700	50	Unbiased	100	100	0
2800	50	Unbiased	100	100	0
2900	50	Unbiased	100	100	0
3000	50	Unbiased	100	100	0
4000	100	Biased-168Hr-Anneal	100	100	0
4100	100	Biased-168Hr-Anneal	100	100	0
4200	100	Biased-168Hr-Anneal	100	100	0
4300	100	Biased-168Hr-Anneal	100	100	0
4400	100	Biased-168Hr-Anneal	100	100	0
4500	100	Unbiased-168Hr-Anneal	100	100	0
4600	100	Unbiased-168Hr-Anneal	100	100	0
4700	100	Unbiased-168Hr-Anneal	100	100	0
4800	100	Unbiased-168Hr-Anneal	100	100	0
4900	100	Unbiased-168Hr-Anneal	100	100	0
9300	0	CORRELATION	100	100	0
9400	0	CORRELATION	100	100	0
9500	0	CORRELATION	100	100	0
9600	0	CORRELATION	100	100	0
9700	0	CORRELATION	100	100	0

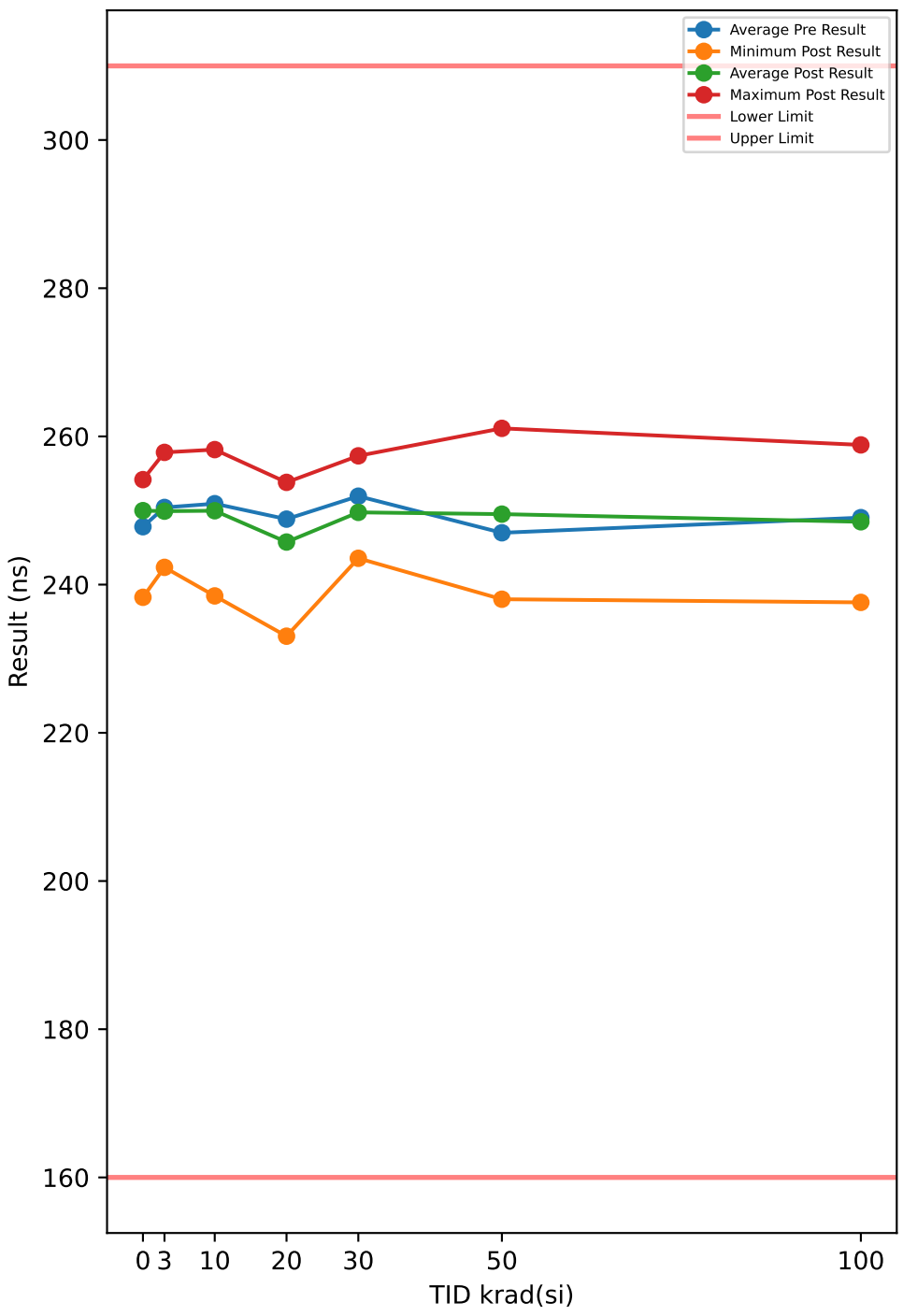


Test Statistics (kHz)

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	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
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
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.49 TIMING|DELAY/SYNC1/5//OPEN//@SYNC1_SW_DELAY_INV

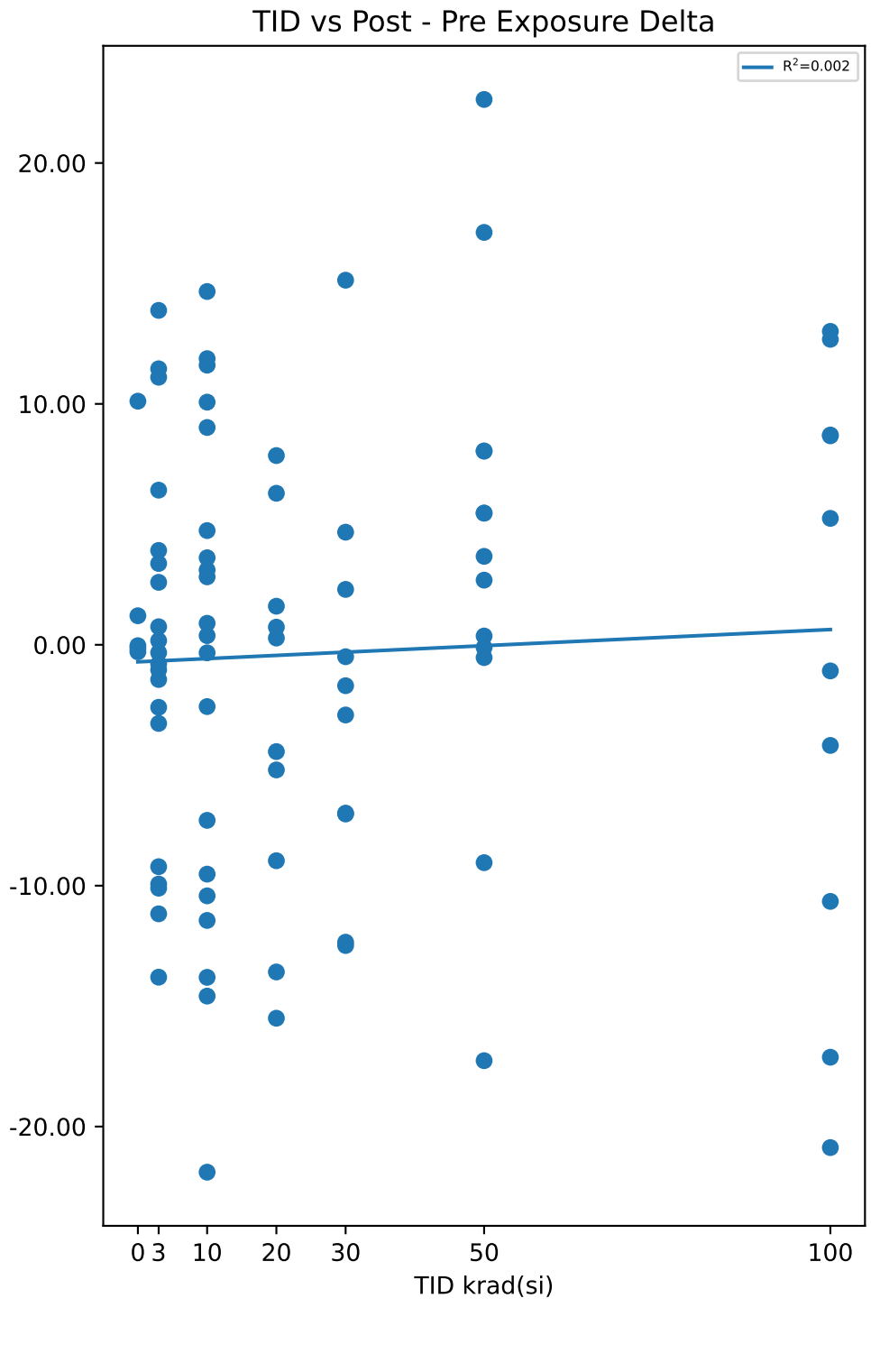
TID vs Result Stats



Test Results (Lower Limit = 160.0, Upper Limit = 310.0 (ns))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	258.64	257.84	-0.7906
51	3	Biased	245.59	242.33	-3.2652
52	3	Biased	258.58	244.78	-13.799
53	3	Biased	249.7	252.29	2.5928
54	3	Biased	251.59	255.5	3.9165
55	3	Unbiased	250.64	257.06	6.4194
56	3	Unbiased	254.06	242.89	-11.168
57	3	Unbiased	240.87	244.25	3.3753
58	3	Unbiased	257.41	248.2	-9.2122
59	3	Unbiased	255.4	253.96	-1.4413
60	10	Biased	253.06	238.48	-14.584
61	10	Biased	239.4	249.47	10.072
62	10	Biased	260.05	248.6	-11.444
63	10	Biased	243.55	258.22	14.665
64	10	Biased	250.32	249.99	-0.3335
65	10	Unbiased	247.67	250.49	2.8209
66	10	Unbiased	263.45	241.55	-21.894
67	10	Unbiased	250.76	253.86	3.1066
68	10	Unbiased	260.51	253.22	-7.2885
69	10	Unbiased	246.77	255.79	9.0204
100	20	Biased	253.14	244.17	-8.9645
200	20	Biased	253.22	239.63	-13.583
300	20	Biased	252.26	252.54	0.2797
400	20	Biased	246.09	247.69	1.6011
500	20	Biased	232.75	233.48	0.7316
600	20	Unbiased	258.83	253.64	-5.1951
700	20	Unbiased	243.84	250.13	6.2893
800	20	Unbiased	248.54	233.04	-15.503
900	20	Unbiased	241.47	249.32	7.8548
1000	20	Unbiased	258.23	253.8	-4.4342
1100	30	Biased	250.58	243.55	-7.0244
1200	30	Biased	247.68	244.76	-2.9139
1300	30	Biased	242.24	257.38	15.135
1400	30	Biased	262.56	250.08	-12.484
1500	30	Biased	246.9	249.2	2.299
1600	30	Unbiased	255.52	253.83	-1.6987
1700	30	Unbiased	245.36	244.87	-0.4957
1800	30	Unbiased	258.97	251.98	-6.9889
1900	30	Unbiased	251.34	256.01	4.6742
2000	30	Unbiased	258.18	245.83	-12.347
2100	50	Biased-84Hr-Anneal	242.39	250.43	8.0423
2200	50	Biased-84Hr-Anneal	238.45	261.09	22.638
2300	50	Biased-84Hr-Anneal	241.87	258.99	17.119
2400	50	Biased-84Hr-Anneal	240.72	244.39	3.6709
2500	50	Biased-84Hr-Anneal	249.03	251.72	2.6836
2600	50	Unbiased	255.29	238.03	-17.265
2700	50	Unbiased	249.43	248.9	-0.5316
2800	50	Unbiased	253.56	253.93	0.3642
2900	50	Unbiased	241.25	241.13	-0.1123
3000	50	Unbiased	257.96	248.92	-9.0451
4000	100	Biased-168Hr-Anneal	239.1	251.78	12.681
4100	100	Biased-168Hr-Anneal	262.28	245.16	-17.122
4200	100	Biased-168Hr-Anneal	240.26	245.51	5.2476
4300	100	Biased-168Hr-Anneal	259.94	258.85	-1.084
4400	100	Biased-168Hr-Anneal	246.12	254.83	8.708
4500	100	Unbiased-168Hr-Anneal	241.81	254.82	13.011
4600	100	Unbiased-168Hr-Anneal	263.35	252.7	-10.653
4700	100	Unbiased-168Hr-Anneal	236.64	245.32	8.6749
4800	100	Unbiased-168Hr-Anneal	241.78	237.6	-4.1783
4900	100	Unbiased-168Hr-Anneal	259.08	238.21	-20.873
9300	0	CORRELATION	243.8	253.91	10.112
9400	0	CORRELATION	254.46	254.17	-0.2912
9500	0	CORRELATION	238.43	238.29	-0.1431
9600	0	CORRELATION	251.25	252.46	1.2054
9700	0	CORRELATION	251.13	251.09	-0.0381

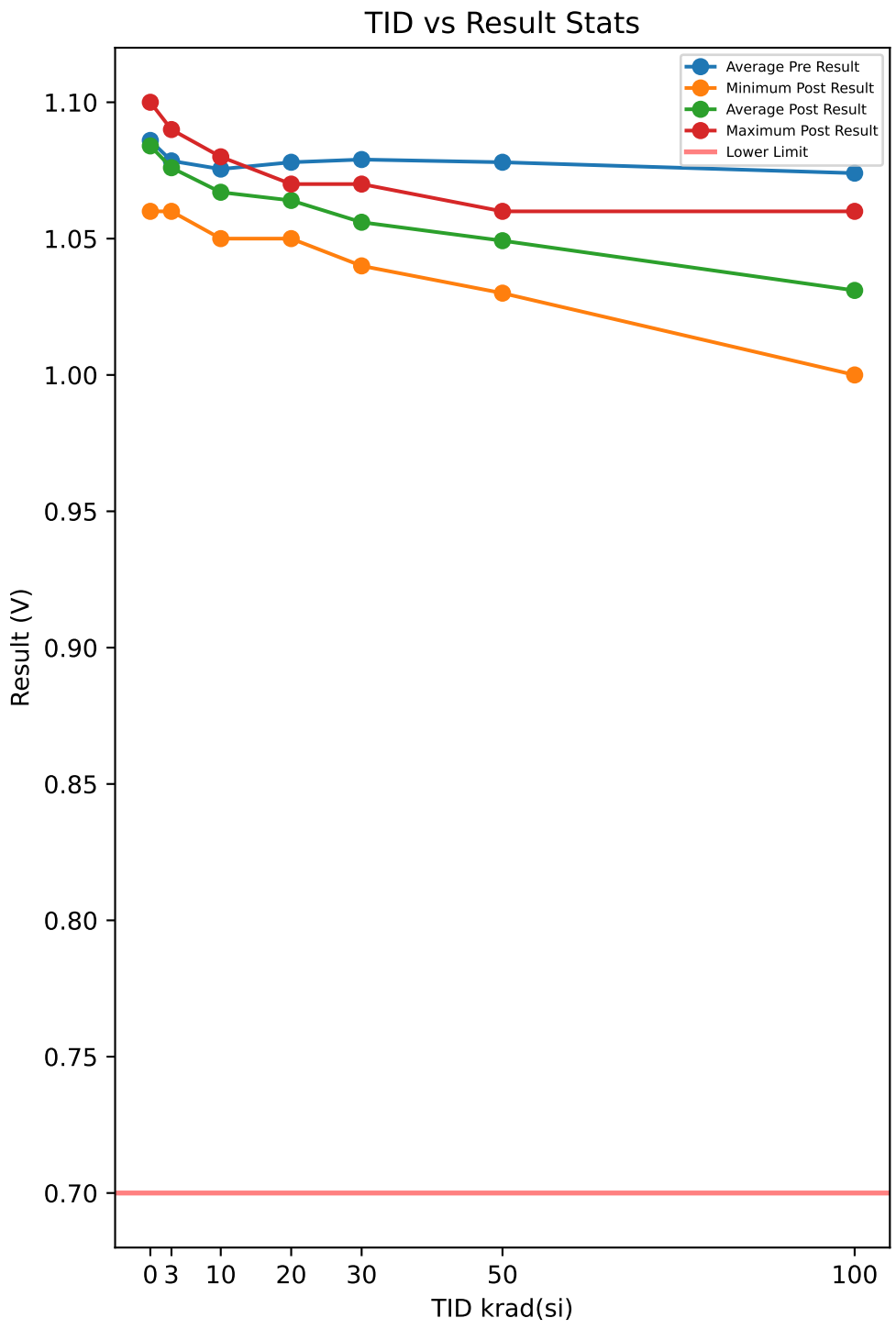
TID vs Post - Pre Exposure Delta

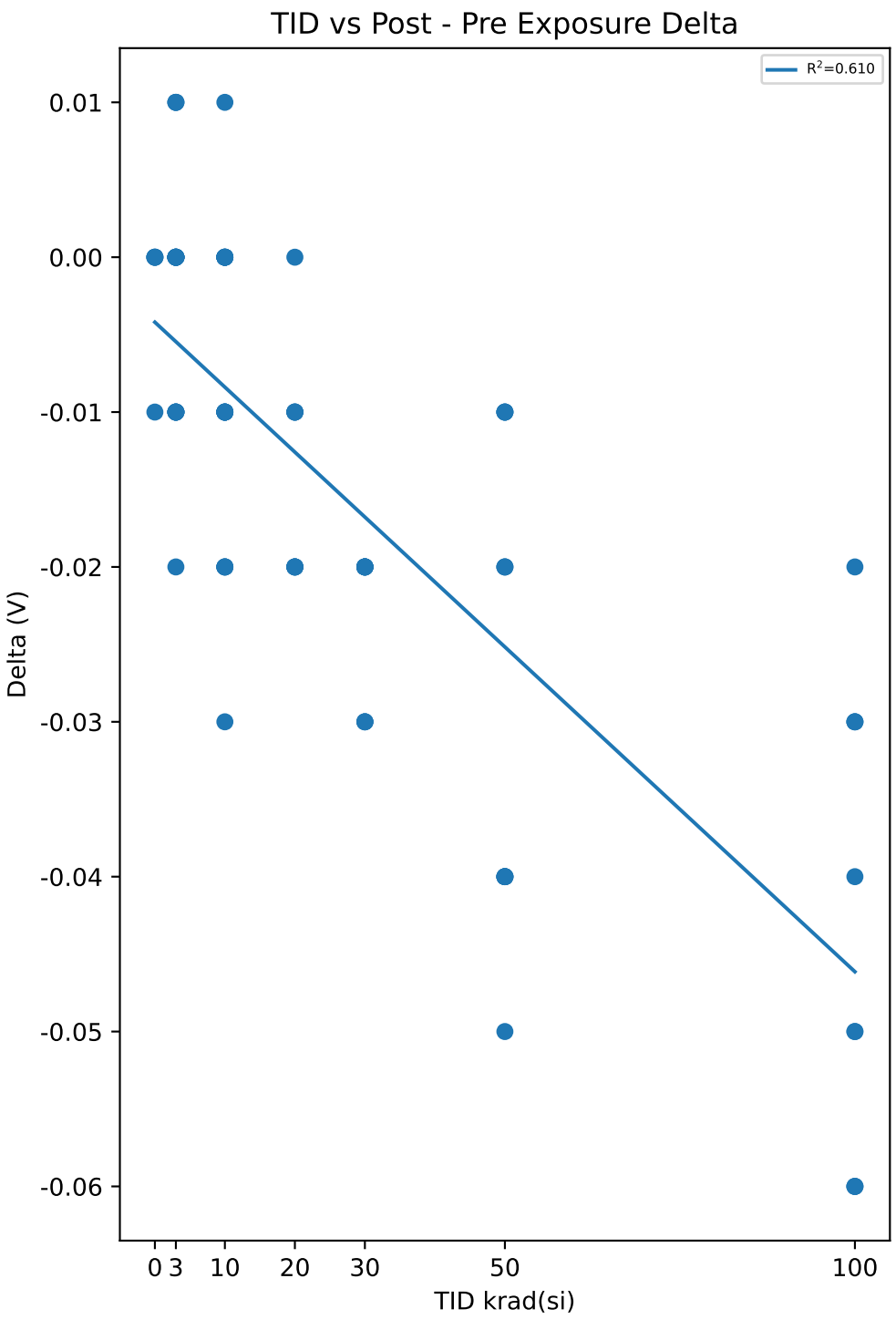


Test Statistics (ns)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	238.43	247.81	254.46	6.5407	238.29	249.98	254.17	6.6527	-0.2912	2.1691	10.112	4.4804
3	240.87	252.25	258.64	5.8114	242.33	249.91	257.84	6.105	-13.799	-2.3372	6.4194	6.9394
10	239.4	251.55	263.45	7.8027	238.48	249.97	258.22	6.0824	-21.894	-1.5859	14.665	11.863
20	232.75	248.84	258.83	8.0505	233.04	245.74	253.8	7.8937	-15.503	-3.0923	7.8548	7.8927
30	242.24	251.93	262.56	6.643	243.55	249.75	257.38	4.966	-12.484	-2.1845	15.135	8.344
50	238.45	247	257.96	6.9554	238.03	249.75	261.09	7.2844	-17.265	2.7564	22.638	11.524
100	236.64	249.04	263.35	10.764	237.6	248.48	258.85	7.2304	-20.873	-0.5588	13.011	12.322

Device Test: 24.5 THRESHOLD|FALL/SYNC1/4.5//OPEN//@SYNC1_VIL





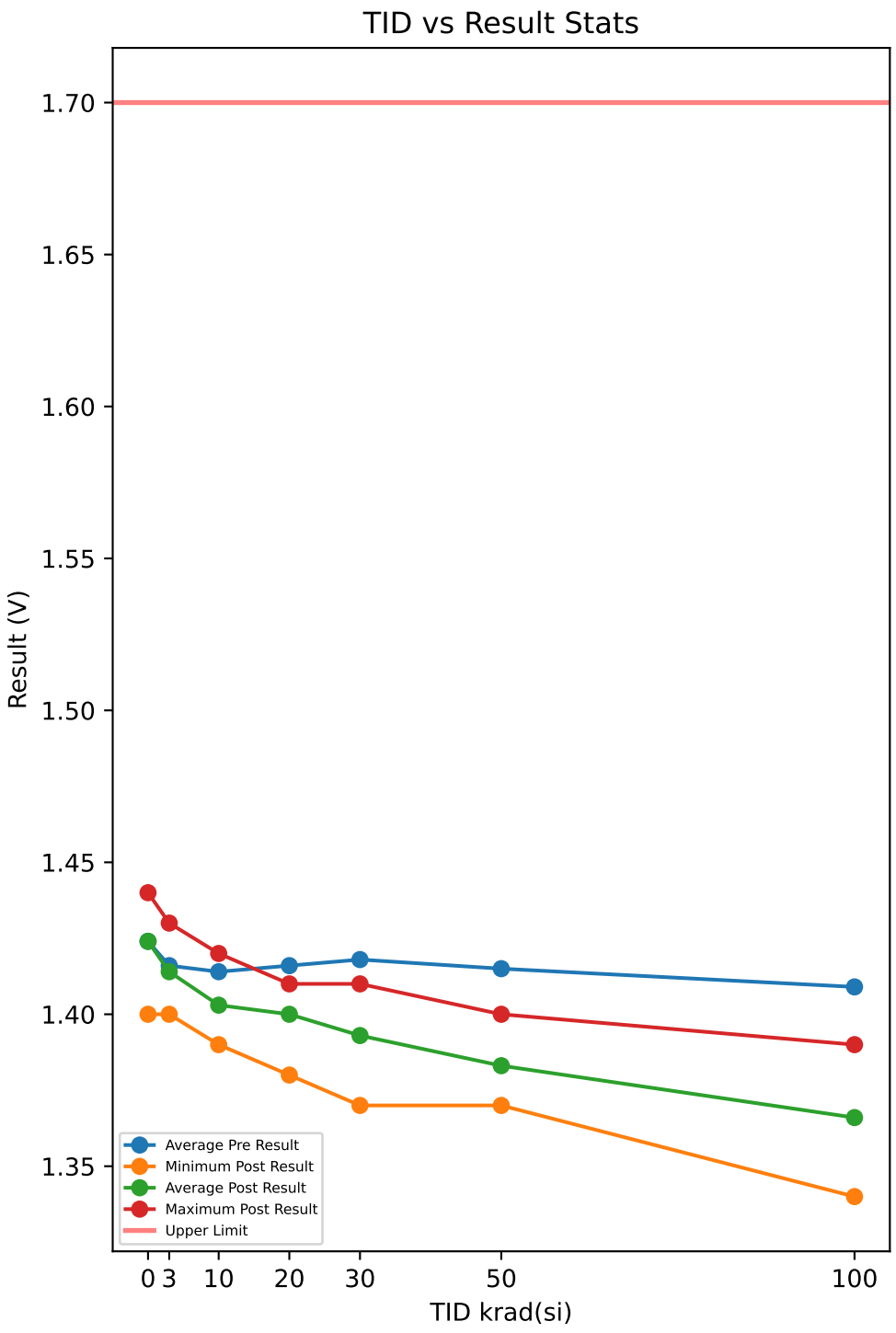
Test Results (Lower Limit = 0.7 (V))

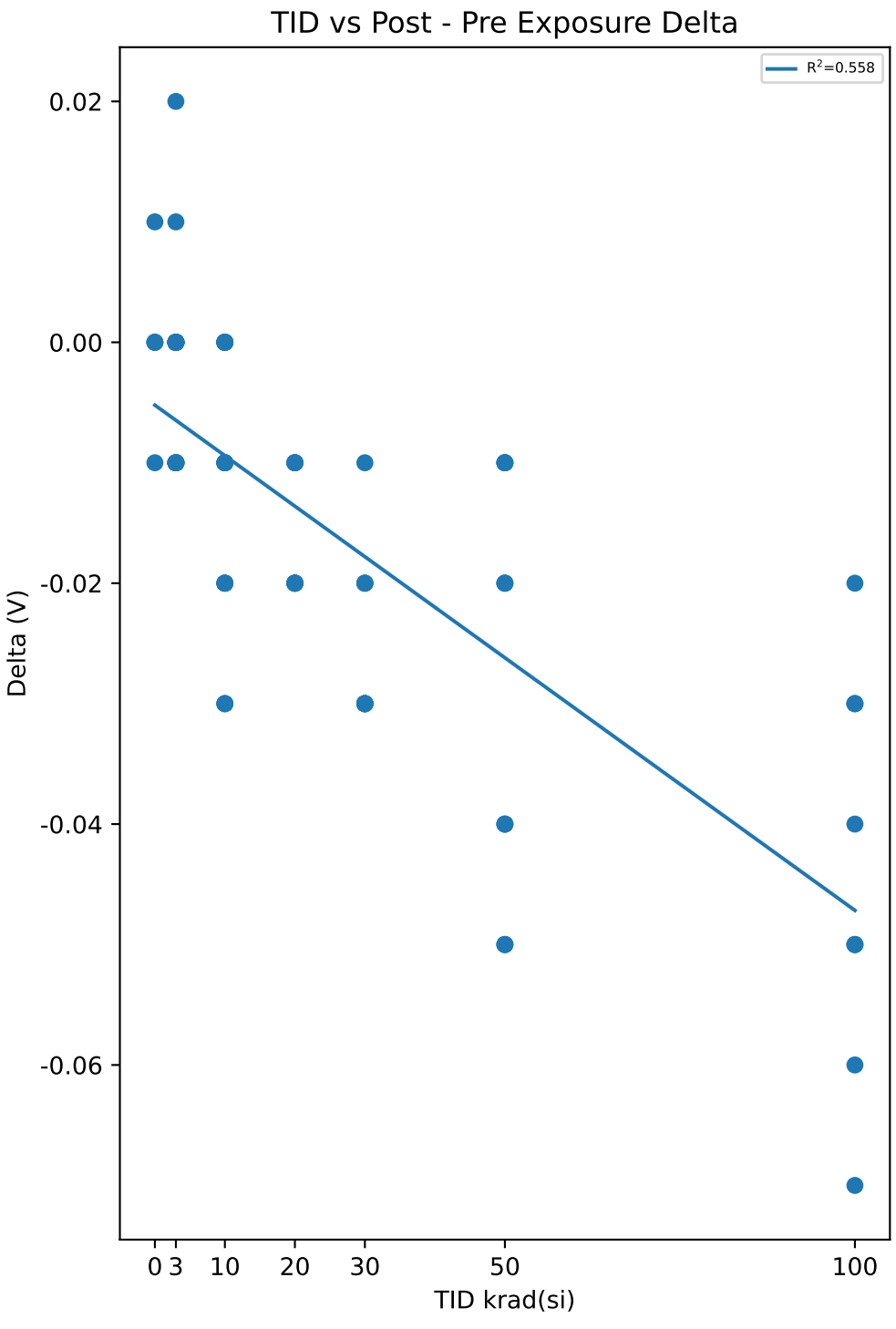
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.07	1.08	0.01
51	3	Biased	1.09	1.08	-0.01
52	3	Biased	1.08	1.09	0.01
53	3	Biased	1.07	1.08	0.01
54	3	Biased	1.08	1.06	-0.02
55	3	Unbiased	1.08	1.07	-0.01
56	3	Unbiased	1.08	1.07	-0.01
57	3	Unbiased	1.08	1.08	0
58	3	Unbiased	1.09	1.08	-0.01
59	3	Unbiased	1.07	1.07	0
60	10	Biased	1.09	1.07	-0.02
61	10	Biased	1.08	1.05	-0.03
62	10	Biased	1.08	1.06	-0.02
63	10	Biased	1.06	1.06	0
64	10	Biased	1.09	1.08	-0.01
65	10	Unbiased	1.07	1.08	0.01
66	10	Unbiased	1.08	1.08	0
67	10	Unbiased	1.08	1.06	-0.02
68	10	Unbiased	1.07	1.07	0
69	10	Unbiased	1.07	1.06	-0.01
100	20	Biased	1.06	1.06	0
200	20	Biased	1.08	1.06	-0.02
300	20	Biased	1.07	1.06	-0.01
400	20	Biased	1.08	1.07	-0.01
500	20	Biased	1.08	1.07	-0.01
600	20	Unbiased	1.09	1.07	-0.02
700	20	Unbiased	1.07	1.05	-0.02
800	20	Unbiased	1.08	1.07	-0.01
900	20	Unbiased	1.08	1.06	-0.02
1000	20	Unbiased	1.09	1.07	-0.02
1100	30	Biased	1.07	1.05	-0.02
1200	30	Biased	1.09	1.07	-0.02
1300	30	Biased	1.08	1.06	-0.02
1400	30	Biased	1.08	1.06	-0.02
1500	30	Biased	1.09	1.07	-0.02
1600	30	Unbiased	1.09	1.06	-0.03
1700	30	Unbiased	1.07	1.05	-0.02
1800	30	Unbiased	1.07	1.05	-0.02
1900	30	Unbiased	1.07	1.04	-0.03
2000	30	Unbiased	1.08	1.05	-0.03
2100	50	Biased-84Hr-Anneal	1.07	1.06	-0.01
2200	50	Biased-84Hr-Anneal	1.09	1.05	-0.04
2300	50	Biased-84Hr-Anneal	1.08	1.06	-0.02
2400	50	Biased-84Hr-Anneal	1.06	1.05	-0.01
2500	50	Biased-84Hr-Anneal	1.06	1.05	-0.01
2600	50	Unbiased	1.08	1.03	-0.05
2700	50	Unbiased	1.08	1.04	-0.04
2800	50	Unbiased	1.08	1.04	-0.04
2900	50	Unbiased	1.09	1.05	-0.04
3000	50	Unbiased	1.09	1.05	-0.04
4000	100	Biased-168Hr-Anneal	1.07	1.04	-0.03
4100	100	Biased-168Hr-Anneal	1.06	1.04	-0.02
4200	100	Biased-168Hr-Anneal	1.09	1.06	-0.03
4300	100	Biased-168Hr-Anneal	1.08	1.04	-0.04
4400	100	Biased-168Hr-Anneal	1.08	1.05	-0.03
4500	100	Unbiased-168Hr-Anneal	1.08	1.03	-0.05
4600	100	Unbiased-168Hr-Anneal	1.07	1.01	-0.06
4700	100	Unbiased-168Hr-Anneal	1.06	1	-0.06
4800	100	Unbiased-168Hr-Anneal	1.07	1.01	-0.06
4900	100	Unbiased-168Hr-Anneal	1.08	1.03	-0.05
9300	0	CORRELATION	1.07	1.06	-0.01
9400	0	CORRELATION	1.09	1.09	0
9500	0	CORRELATION	1.1	1.1	0
9600	0	CORRELATION	1.08	1.08	0
9700	0	CORRELATION	1.09	1.09	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	1.07	1.086	1.1	0.011402	1.06	1.084	1.1	0.015166	-0.01	-0.002	0	0.0044721
3	1.07	1.079	1.09	0.0073786	1.06	1.076	1.09	0.0084327	-0.02	-0.003	0.01	0.010593
10	1.06	1.077	1.09	0.0094868	1.05	1.067	1.08	0.010593	-0.03	-0.01	0.01	0.012472
20	1.06	1.078	1.09	0.0091894	1.05	1.064	1.07	0.0069921	-0.02	-0.014	0	0.0069921
30	1.07	1.079	1.09	0.008756	1.04	1.056	1.07	0.0096609	-0.03	-0.023	-0.02	0.0048305
50	1.06	1.078	1.09	0.011353	1.03	1.048	1.06	0.0091894	-0.05	-0.03	-0.01	0.015635
100	1.06	1.074	1.09	0.0096609	1	1.031	1.06	0.01912	-0.06	-0.043	-0.02	0.014944

Device Test: 24.50 THRESHOLD|RISE/SYNC1/5//OPEN//@SYNC1_VIH





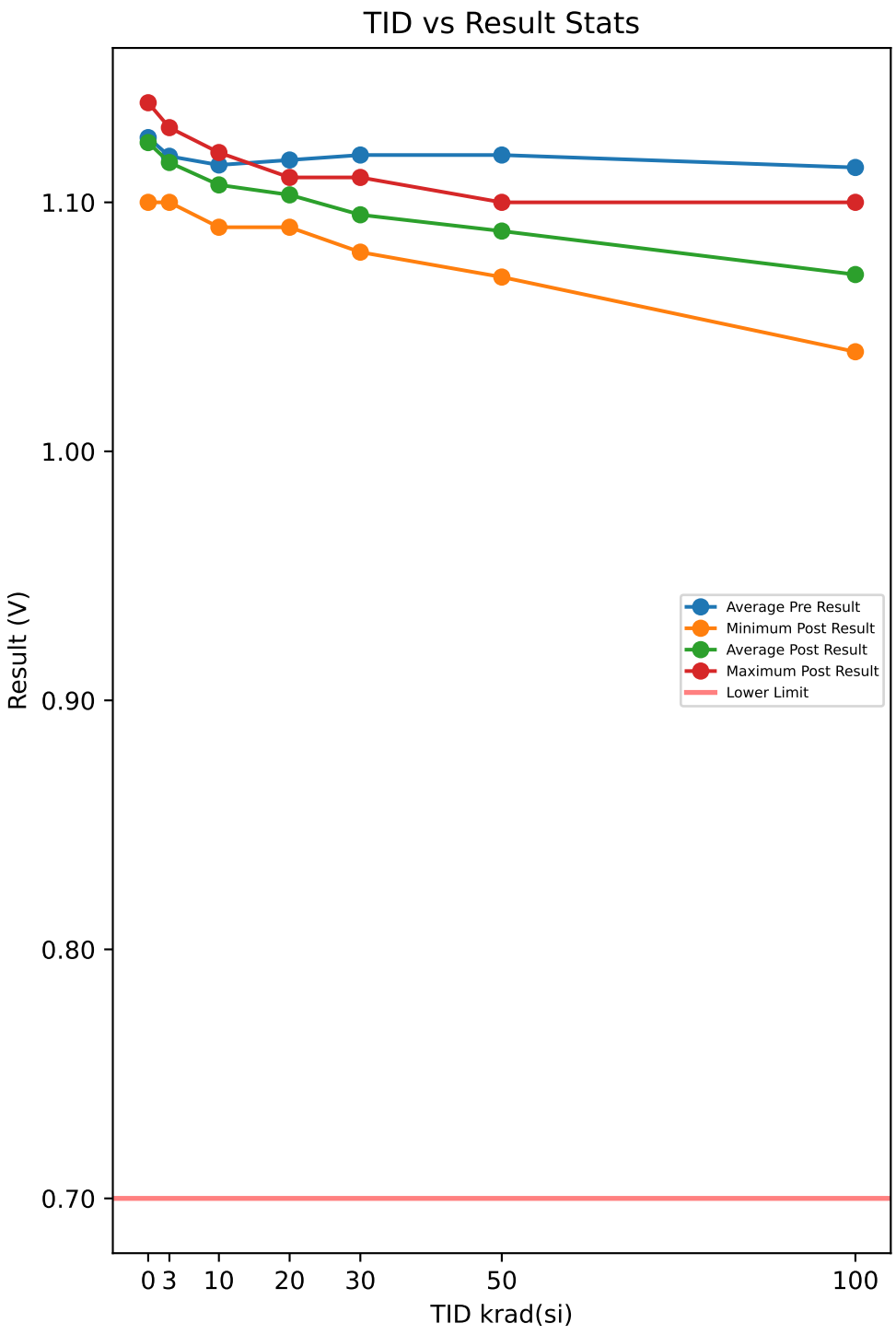
Test Results (Upper Limit = 1.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.41	1.41	0
51	3	Biased	1.43	1.42	-0.01
52	3	Biased	1.42	1.43	0.01
53	3	Biased	1.4	1.42	0.02
54	3	Biased	1.41	1.4	-0.01
55	3	Unbiased	1.42	1.41	-0.01
56	3	Unbiased	1.42	1.42	0
57	3	Unbiased	1.42	1.41	-0.01
58	3	Unbiased	1.43	1.42	-0.01
59	3	Unbiased	1.4	1.4	0
60	10	Biased	1.43	1.4	-0.03
61	10	Biased	1.42	1.39	-0.03
62	10	Biased	1.42	1.39	-0.03
63	10	Biased	1.4	1.39	-0.01
64	10	Biased	1.42	1.42	0
65	10	Unbiased	1.41	1.41	0
66	10	Unbiased	1.42	1.42	0
67	10	Unbiased	1.42	1.4	-0.02
68	10	Unbiased	1.41	1.41	0
69	10	Unbiased	1.41	1.4	-0.01
100	20	Biased	1.41	1.4	-0.01
200	20	Biased	1.41	1.4	-0.01
300	20	Biased	1.41	1.4	-0.01
400	20	Biased	1.42	1.41	-0.01
500	20	Biased	1.42	1.4	-0.02
600	20	Unbiased	1.43	1.41	-0.02
700	20	Unbiased	1.4	1.38	-0.02
800	20	Unbiased	1.42	1.4	-0.02
900	20	Unbiased	1.42	1.4	-0.02
1000	20	Unbiased	1.42	1.4	-0.02
1100	30	Biased	1.41	1.4	-0.01
1200	30	Biased	1.43	1.4	-0.03
1300	30	Biased	1.42	1.39	-0.03
1400	30	Biased	1.42	1.4	-0.02
1500	30	Biased	1.43	1.41	-0.02
1600	30	Unbiased	1.43	1.4	-0.03
1700	30	Unbiased	1.41	1.38	-0.03
1800	30	Unbiased	1.41	1.38	-0.03
1900	30	Unbiased	1.4	1.37	-0.03
2000	30	Unbiased	1.42	1.4	-0.02
2100	50	Biased-84Hr-Anneal	1.4	1.39	-0.01
2200	50	Biased-84Hr-Anneal	1.43	1.39	-0.04
2300	50	Biased-84Hr-Anneal	1.42	1.4	-0.02
2400	50	Biased-84Hr-Anneal	1.4	1.38	-0.02
2500	50	Biased-84Hr-Anneal	1.4	1.38	-0.02
2600	50	Unbiased	1.41	1.37	-0.04
2700	50	Unbiased	1.42	1.37	-0.05
2800	50	Unbiased	1.42	1.37	-0.05
2900	50	Unbiased	1.42	1.38	-0.04
3000	50	Unbiased	1.43	1.38	-0.05
4000	100	Biased-168Hr-Anneal	1.4	1.38	-0.02
4100	100	Biased-168Hr-Anneal	1.4	1.37	-0.03
4200	100	Biased-168Hr-Anneal	1.43	1.39	-0.04
4300	100	Biased-168Hr-Anneal	1.41	1.38	-0.03
4400	100	Biased-168Hr-Anneal	1.42	1.39	-0.03
4500	100	Unbiased-168Hr-Anneal	1.42	1.36	-0.06
4600	100	Unbiased-168Hr-Anneal	1.41	1.34	-0.07
4700	100	Unbiased-168Hr-Anneal	1.39	1.34	-0.05
4800	100	Unbiased-168Hr-Anneal	1.4	1.35	-0.05
4900	100	Unbiased-168Hr-Anneal	1.41	1.36	-0.05
9300	0	CORRELATION	1.41	1.4	-0.01
9400	0	CORRELATION	1.43	1.43	0
9500	0	CORRELATION	1.44	1.44	0
9600	0	CORRELATION	1.42	1.42	0
9700	0	CORRELATION	1.42	1.43	0.01

Test Statistics (V)

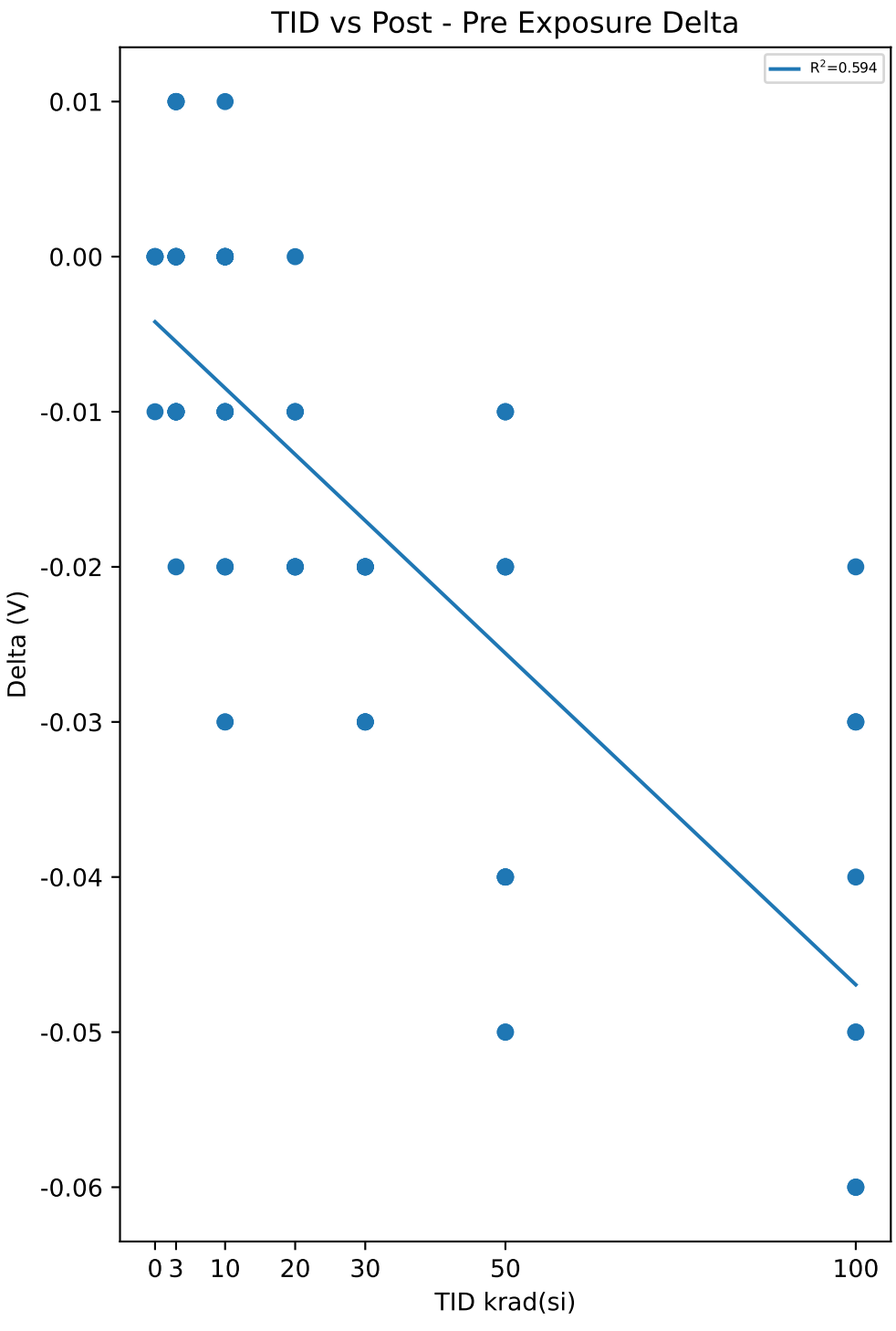
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.41	1.424	1.44	0.011402	1.4	1.424	1.44	0.015166	-0.01	0	0.01	0.0070711
3	1.4	1.416	1.43	0.01075	1.4	1.414	1.43	0.0096609	-0.01	-0.002	0.02	0.010328
10	1.4	1.416	1.43	0.0084327	1.39	1.403	1.42	0.011595	-0.03	-0.013	0	0.013375
20	1.4	1.416	1.43	0.0084327	1.38	1.4	1.41	0.008165	-0.02	-0.016	-0.01	0.005164
30	1.4	1.418	1.43	0.010328	1.37	1.393	1.41	0.012517	-0.03	-0.025	-0.01	0.0070711
50	1.4	1.415	1.43	0.011785	1.37	1.381	1.4	0.0099443	-0.05	-0.034	-0.01	0.015055
100	1.39	1.409	1.43	0.011972	1.34	1.366	1.39	0.018974	-0.07	-0.043	-0.02	0.01567

Device Test: 24.51 THRESHOLD|FALL/SYNC1/5//OPEN//@SYNC1_VIL



Test Results (Lower Limit = 0.7 (V))

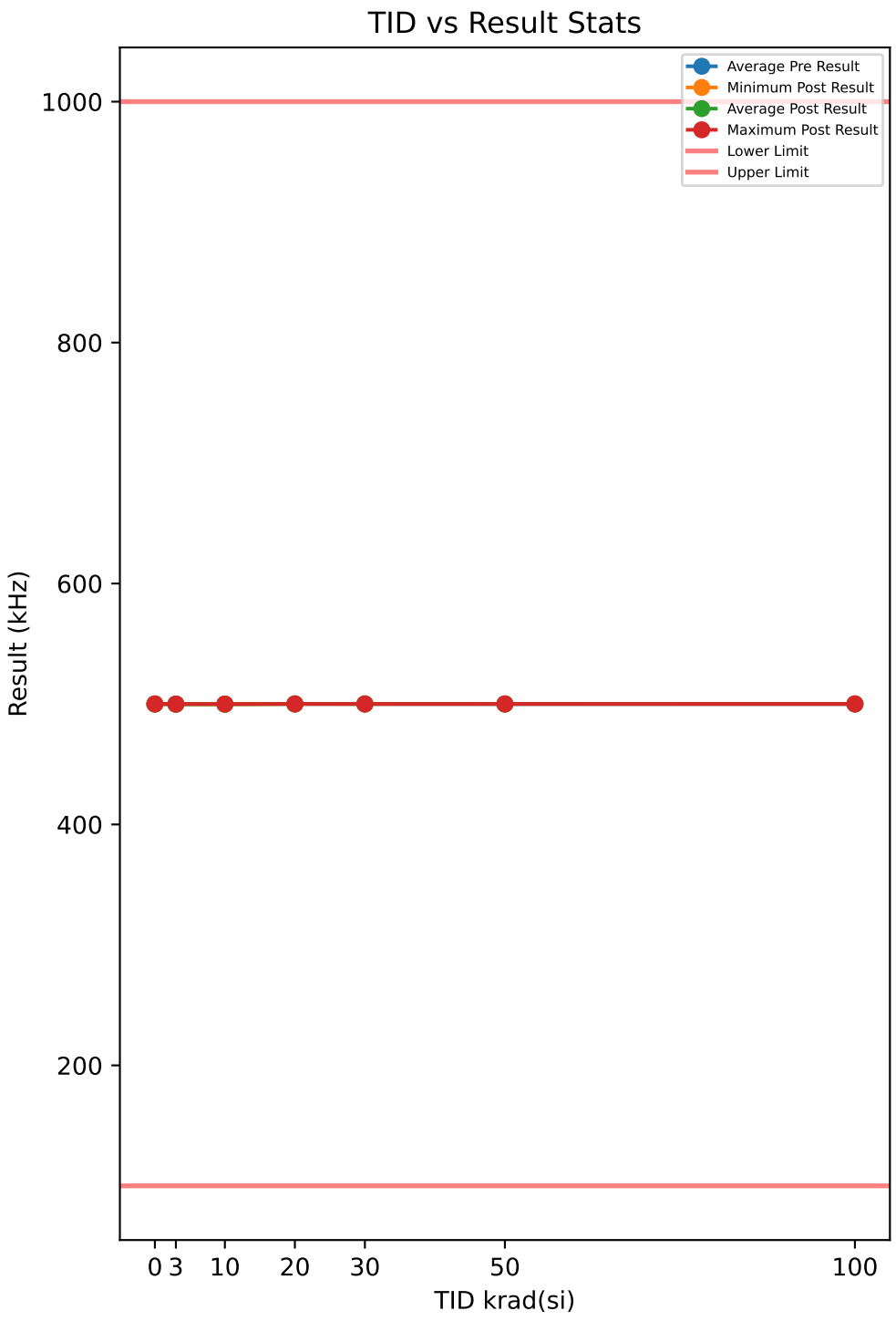
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.11	1.12	0.01
51	3	Biased	1.13	1.12	-0.01
52	3	Biased	1.12	1.13	0.01
53	3	Biased	1.11	1.12	0.01
54	3	Biased	1.12	1.1	-0.02
55	3	Unbiased	1.12	1.11	-0.01
56	3	Unbiased	1.12	1.11	-0.01
57	3	Unbiased	1.12	1.11	-0.01
58	3	Unbiased	1.13	1.13	0
59	3	Unbiased	1.11	1.11	0
60	10	Biased	1.14	1.11	-0.03
61	10	Biased	1.12	1.09	-0.03
62	10	Biased	1.12	1.1	-0.02
63	10	Biased	1.1	1.1	0
64	10	Biased	1.13	1.12	-0.01
65	10	Unbiased	1.11	1.12	0.01
66	10	Unbiased	1.12	1.12	0
67	10	Unbiased	1.12	1.1	-0.02
68	10	Unbiased	1.11	1.11	0
69	10	Unbiased	1.11	1.1	-0.01
100	20	Biased	1.1	1.1	0
200	20	Biased	1.11	1.1	-0.01
300	20	Biased	1.11	1.09	-0.02
400	20	Biased	1.12	1.11	-0.01
500	20	Biased	1.12	1.11	-0.01
600	20	Unbiased	1.13	1.11	-0.02
700	20	Unbiased	1.1	1.09	-0.01
800	20	Unbiased	1.13	1.11	-0.02
900	20	Unbiased	1.12	1.1	-0.02
1000	20	Unbiased	1.13	1.11	-0.02
1100	30	Biased	1.11	1.09	-0.02
1200	30	Biased	1.13	1.11	-0.02
1300	30	Biased	1.12	1.1	-0.02
1400	30	Biased	1.12	1.1	-0.02
1500	30	Biased	1.13	1.11	-0.02
1600	30	Unbiased	1.13	1.1	-0.03
1700	30	Unbiased	1.11	1.08	-0.03
1800	30	Unbiased	1.11	1.09	-0.02
1900	30	Unbiased	1.11	1.08	-0.03
2000	30	Unbiased	1.12	1.09	-0.03
2100	50	Biased-84Hr-Anneal	1.11	1.1	-0.01
2200	50	Biased-84Hr-Anneal	1.13	1.09	-0.04
2300	50	Biased-84Hr-Anneal	1.12	1.1	-0.02
2400	50	Biased-84Hr-Anneal	1.1	1.09	-0.01
2500	50	Biased-84Hr-Anneal	1.11	1.09	-0.02
2600	50	Unbiased	1.12	1.07	-0.05
2700	50	Unbiased	1.12	1.07	-0.05
2800	50	Unbiased	1.12	1.08	-0.04
2900	50	Unbiased	1.13	1.09	-0.04
3000	50	Unbiased	1.13	1.09	-0.04
4000	100	Biased-168Hr-Anneal	1.11	1.08	-0.03
4100	100	Biased-168Hr-Anneal	1.1	1.08	-0.02
4200	100	Biased-168Hr-Anneal	1.13	1.1	-0.03
4300	100	Biased-168Hr-Anneal	1.12	1.08	-0.04
4400	100	Biased-168Hr-Anneal	1.12	1.09	-0.03
4500	100	Unbiased-168Hr-Anneal	1.12	1.07	-0.05
4600	100	Unbiased-168Hr-Anneal	1.11	1.05	-0.06
4700	100	Unbiased-168Hr-Anneal	1.1	1.04	-0.06
4800	100	Unbiased-168Hr-Anneal	1.11	1.05	-0.06
4900	100	Unbiased-168Hr-Anneal	1.12	1.07	-0.05
9300	0	CORRELATION	1.11	1.1	-0.01
9400	0	CORRELATION	1.13	1.13	0
9500	0	CORRELATION	1.14	1.14	0
9600	0	CORRELATION	1.12	1.12	0
9700	0	CORRELATION	1.13	1.13	0

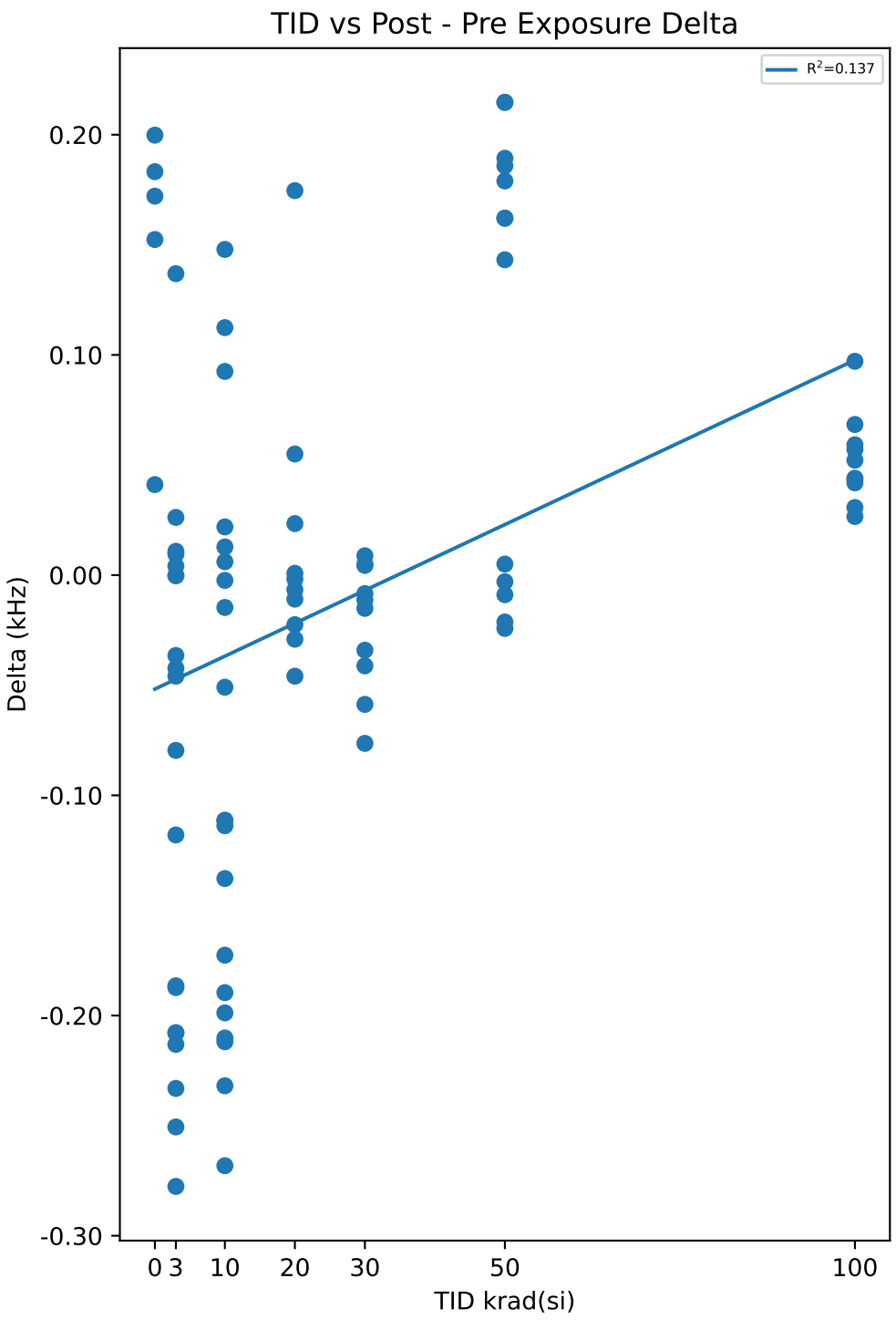


Test Statistics (V)

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	1.11	1.126	1.14	0.011402	1.1	1.124	1.14	0.015166	-0.01	-0.002	0	0.0044721
3	1.11	1.119	1.13	0.0073786	1.1	1.116	1.13	0.0096609	-0.02	-0.003	0.01	0.010593
10	1.1	1.118	1.14	0.011353	1.09	1.107	1.12	0.010593	-0.03	-0.011	0.01	0.013703
20	1.1	1.117	1.13	0.011595	1.09	1.103	1.11	0.0082327	-0.02	-0.014	0	0.0069921
30	1.11	1.119	1.13	0.008756	1.08	1.095	1.11	0.010801	-0.03	-0.024	-0.02	0.005164
50	1.1	1.119	1.13	0.0099443	1.07	1.087	1.1	0.010593	-0.05	-0.032	-0.01	0.015492
100	1.1	1.114	1.13	0.0096609	1.04	1.071	1.1	0.01912	-0.06	-0.043	-0.02	0.014944

Device Test: 24.52 FREQ|500kHz/SYNC1/5//OPEN//@SYNC_FREQ_RANGE





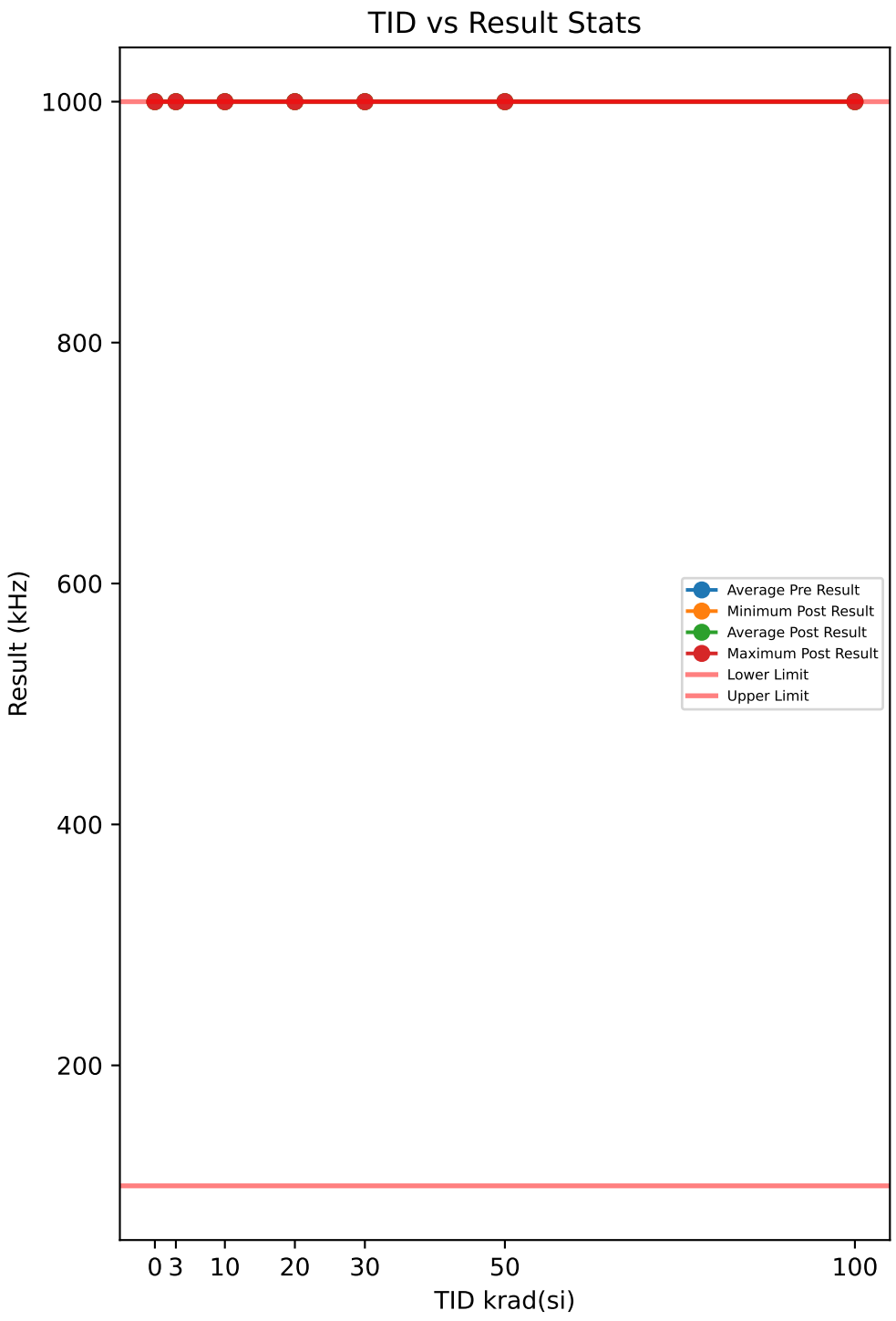
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

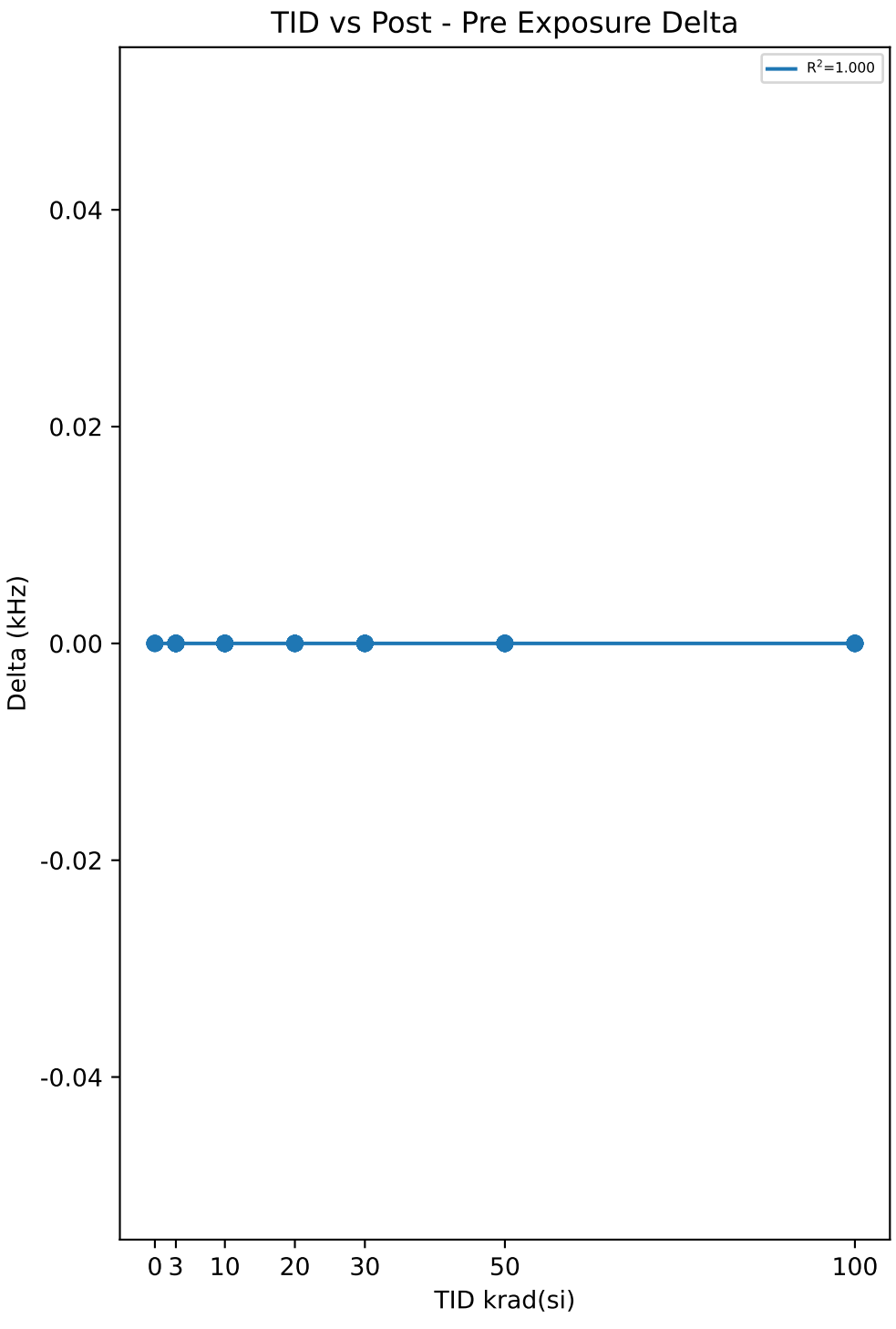
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	500.04	499.81	-0.2331
51	3	Biased	500.05	499.84	-0.2079
52	3	Biased	500.06	499.85	-0.2131
53	3	Biased	500.02	499.84	-0.1865
54	3	Biased	500.06	499.78	-0.2776
55	3	Unbiased	500.04	499.85	-0.1873
56	3	Unbiased	500.03	499.95	-0.0796
57	3	Unbiased	499.99	499.95	-0.0423
58	3	Unbiased	500.04	499.79	-0.2506
59	3	Unbiased	500.03	499.82	-0.2078
60	10	Biased	500.06	499.92	-0.1378
61	10	Biased	500.01	499.84	-0.1726
62	10	Biased	500.03	499.8	-0.2319
63	10	Biased	500.06	499.85	-0.2119
64	10	Biased	500.05	499.94	-0.1138
65	10	Unbiased	500.03	499.82	-0.2102
66	10	Unbiased	500.06	499.95	-0.1115
67	10	Unbiased	500.07	499.8	-0.2682
68	10	Unbiased	500.04	499.84	-0.1988
69	10	Unbiased	500.02	499.83	-0.1896
100	20	Biased	499.85	500.03	0.1746
200	20	Biased	500.08	500.03	-0.0459
300	20	Biased	500.06	500.05	-0.0066
400	20	Biased	500.05	500.04	-0.0109
500	20	Biased	500.04	500.02	-0.0225
600	20	Unbiased	500.01	500.01	0.0008
700	20	Unbiased	500.06	500.09	0.0234
800	20	Unbiased	500.04	500.01	-0.0291
900	20	Unbiased	500.01	500.06	0.055
1000	20	Unbiased	500.05	500.05	-0.0018
1100	30	Biased	500.04	500.03	-0.0084
1200	30	Biased	500.07	500.01	-0.0587
1300	30	Biased	500.02	500.01	-0.0151
1400	30	Biased	500.05	500.02	-0.0341
1500	30	Biased	500.03	500.03	0.0088
1600	30	Unbiased	500.03	500.03	0.0044
1700	30	Unbiased	500.01	500.02	0.0049
1800	30	Unbiased	500.06	500.01	-0.0412
1900	30	Unbiased	500.04	500.03	-0.0113
2000	30	Unbiased	500.07	500	-0.0764
2100	50	Biased-84Hr-Anneal	499.85	500.06	0.2147
2200	50	Biased-84Hr-Anneal	499.84	500.03	0.1859
2300	50	Biased-84Hr-Anneal	499.86	500.04	0.179
2400	50	Biased-84Hr-Anneal	499.82	500.01	0.1893
2500	50	Biased-84Hr-Anneal	499.89	500.03	0.1432
2600	50	Unbiased	500.05	500.03	-0.0242
2700	50	Unbiased	500.07	500.05	-0.0213
2800	50	Unbiased	500.04	500.03	-0.0089
2900	50	Unbiased	500.03	500.02	-0.003
3000	50	Unbiased	500.03	500.03	0.005
4000	100	Biased-168Hr-Anneal	500	500.03	0.0266
4100	100	Biased-168Hr-Anneal	499.99	500.03	0.0419
4200	100	Biased-168Hr-Anneal	499.98	500.01	0.0307
4300	100	Biased-168Hr-Anneal	499.97	500.02	0.044
4400	100	Biased-168Hr-Anneal	500	500.05	0.0522
4500	100	Unbiased-168Hr-Anneal	499.99	500.05	0.0571
4600	100	Unbiased-168Hr-Anneal	499.98	500.05	0.0684
4700	100	Unbiased-168Hr-Anneal	499.96	500.06	0.0971
4800	100	Unbiased-168Hr-Anneal	500	500.05	0.0436
4900	100	Unbiased-168Hr-Anneal	499.96	500.02	0.0592
9300	0	CORRELATION	499.99	500.03	0.0411
9400	0	CORRELATION	499.85	500.02	0.1721
9500	0	CORRELATION	499.86	500.01	0.1524
9600	0	CORRELATION	499.84	500.04	0.1998
9700	0	CORRELATION	499.85	500.03	0.1832

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	499.84	499.88	499.99	0.061886	500.01	500.03	500.04	0.012244	0.0411	0.14972	0.1998	0.063117
3	499.99	500.04	500.06	0.020213	499.78	499.85	499.95	0.058388	-0.2776	-0.18858	-0.0423	0.073316
10	500.01	500.04	500.07	0.019107	499.8	499.86	499.95	0.057214	-0.2682	-0.18463	-0.1115	0.051147
20	499.85	500.03	500.08	0.064506	500.01	500.04	500.09	0.023982	-0.0459	0.0137	0.1746	0.063076
30	500.01	500.04	500.07	0.020564	500	500.02	500.03	0.012231	-0.0764	-0.02271	0.0088	0.02893
50	499.82	499.95	500.07	0.10345	500.01	500.03	500.06	0.013715	-0.0242	0.08597	0.2147	0.10343
100	499.96	499.98	500	0.015807	500.01	500.04	500.06	0.016693	0.0266	0.05208	0.0971	0.02032

Device Test: 24.53 FREQ|1000kHz/SYNC1/5//OPEN//@SYNC_FREQ_RANGE





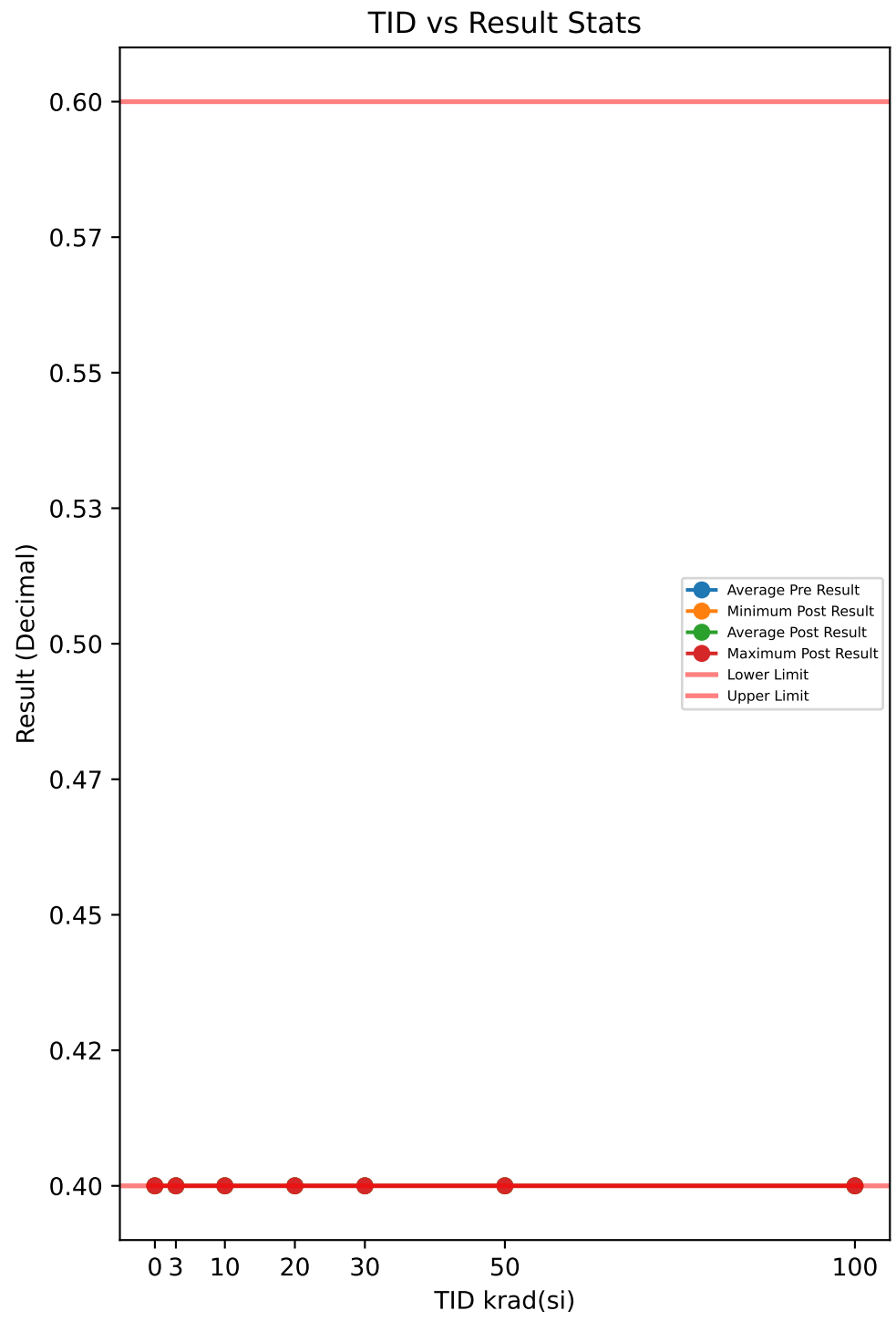
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1000	1000	0
51	3	Biased	1000	1000	0
52	3	Biased	1000	1000	0
53	3	Biased	1000	1000	0
54	3	Biased	1000	1000	0
55	3	Unbiased	1000	1000	0
56	3	Unbiased	1000	1000	0
57	3	Unbiased	1000	1000	0
58	3	Unbiased	1000	1000	0
59	3	Unbiased	1000	1000	0
60	10	Biased	1000	1000	0
61	10	Biased	1000	1000	0
62	10	Biased	1000	1000	0
63	10	Biased	1000	1000	0
64	10	Biased	1000	1000	0
65	10	Unbiased	1000	1000	0
66	10	Unbiased	1000	1000	0
67	10	Unbiased	1000	1000	0
68	10	Unbiased	1000	1000	0
69	10	Unbiased	1000	1000	0
100	20	Biased	1000	1000	0
200	20	Biased	1000	1000	0
300	20	Biased	1000	1000	0
400	20	Biased	1000	1000	0
500	20	Biased	1000	1000	0
600	20	Unbiased	1000	1000	0
700	20	Unbiased	1000	1000	0
800	20	Unbiased	1000	1000	0
900	20	Unbiased	1000	1000	0
1000	20	Unbiased	1000	1000	0
1100	30	Biased	1000	1000	0
1200	30	Biased	1000	1000	0
1300	30	Biased	1000	1000	0
1400	30	Biased	1000	1000	0
1500	30	Biased	1000	1000	0
1600	30	Unbiased	1000	1000	0
1700	30	Unbiased	1000	1000	0
1800	30	Unbiased	1000	1000	0
1900	30	Unbiased	1000	1000	0
2000	30	Unbiased	1000	1000	0
2100	50	Biased-84Hr-Anneal	1000	1000	0
2200	50	Biased-84Hr-Anneal	1000	1000	0
2300	50	Biased-84Hr-Anneal	1000	1000	0
2400	50	Biased-84Hr-Anneal	1000	1000	0
2500	50	Biased-84Hr-Anneal	1000	1000	0
2600	50	Unbiased	1000	1000	0
2700	50	Unbiased	1000	1000	0
2800	50	Unbiased	1000	1000	0
2900	50	Unbiased	1000	1000	0
3000	50	Unbiased	1000	1000	0
4000	100	Biased-168Hr-Anneal	1000	1000	0
4100	100	Biased-168Hr-Anneal	1000	1000	0
4200	100	Biased-168Hr-Anneal	1000	1000	0
4300	100	Biased-168Hr-Anneal	1000	1000	0
4400	100	Biased-168Hr-Anneal	1000	1000	0
4500	100	Unbiased-168Hr-Anneal	1000	1000	0
4600	100	Unbiased-168Hr-Anneal	1000	1000	0
4700	100	Unbiased-168Hr-Anneal	1000	1000	0
4800	100	Unbiased-168Hr-Anneal	1000	1000	0
4900	100	Unbiased-168Hr-Anneal	1000	1000	0
9300	0	CORRELATION	1000	1000	0
9400	0	CORRELATION	1000	1000	0
9500	0	CORRELATION	1000	1000	0
9600	0	CORRELATION	1000	1000	0
9700	0	CORRELATION	1000	1000	0

Test Statistics (kHz)

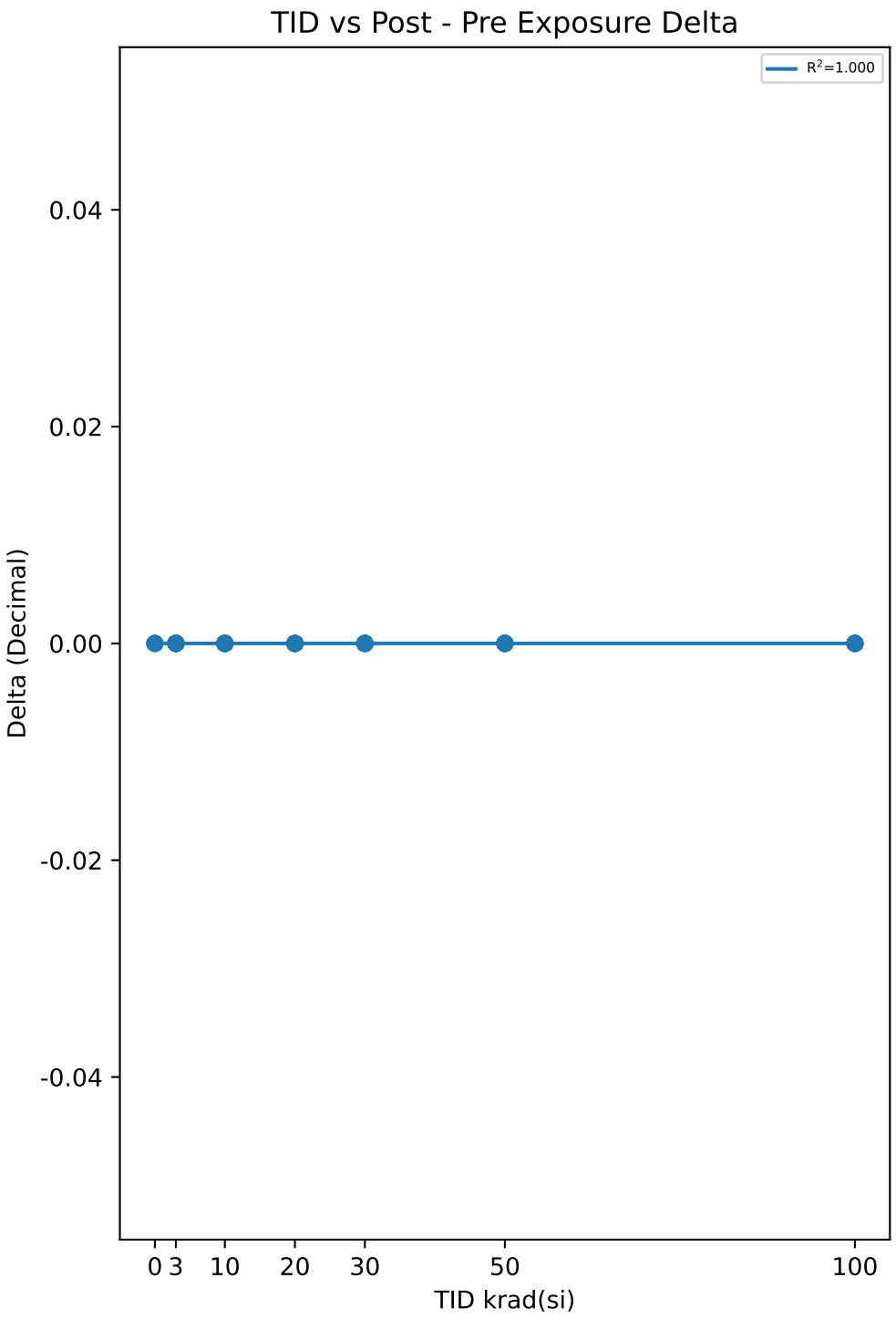
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
3	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
10	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
100	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

Device Test: 24.54 DUTYCYCLE|GNG_40dml/SYNC1/5//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE



Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

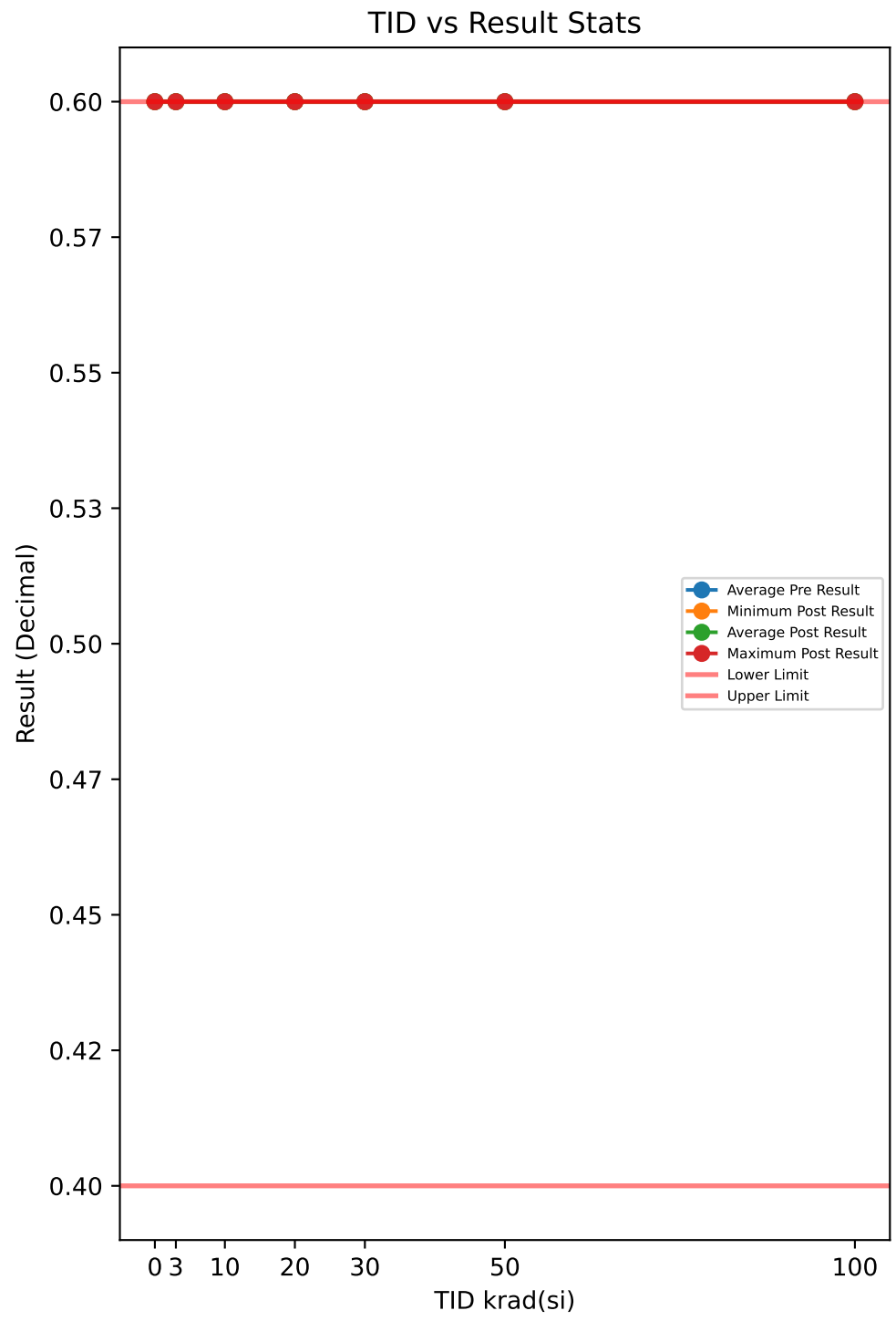
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.4	0.4	0
51	3	Biased	0.4	0.4	0
52	3	Biased	0.4	0.4	0
53	3	Biased	0.4	0.4	0
54	3	Biased	0.4	0.4	0
55	3	Unbiased	0.4	0.4	0
56	3	Unbiased	0.4	0.4	0
57	3	Unbiased	0.4	0.4	0
58	3	Unbiased	0.4	0.4	0
59	3	Unbiased	0.4	0.4	0
60	10	Biased	0.4	0.4	0
61	10	Biased	0.4	0.4	0
62	10	Biased	0.4	0.4	0
63	10	Biased	0.4	0.4	0
64	10	Biased	0.4	0.4	0
65	10	Unbiased	0.4	0.4	0
66	10	Unbiased	0.4	0.4	0
67	10	Unbiased	0.4	0.4	0
68	10	Unbiased	0.4	0.4	0
69	10	Unbiased	0.4	0.4	0
100	20	Biased	0.4	0.4	0
200	20	Biased	0.4	0.4	0
300	20	Biased	0.4	0.4	0
400	20	Biased	0.4	0.4	0
500	20	Biased	0.4	0.4	0
600	20	Unbiased	0.4	0.4	0
700	20	Unbiased	0.4	0.4	0
800	20	Unbiased	0.4	0.4	0
900	20	Unbiased	0.4	0.4	0
1000	20	Unbiased	0.4	0.4	0
1100	30	Biased	0.4	0.4	0
1200	30	Biased	0.4	0.4	0
1300	30	Biased	0.4	0.4	0
1400	30	Biased	0.4	0.4	0
1500	30	Biased	0.4	0.4	0
1600	30	Unbiased	0.4	0.4	0
1700	30	Unbiased	0.4	0.4	0
1800	30	Unbiased	0.4	0.4	0
1900	30	Unbiased	0.4	0.4	0
2000	30	Unbiased	0.4	0.4	0
2100	50	Biased-84Hr-Anneal	0.4	0.4	0
2200	50	Biased-84Hr-Anneal	0.4	0.4	0
2300	50	Biased-84Hr-Anneal	0.4	0.4	0
2400	50	Biased-84Hr-Anneal	0.4	0.4	0
2500	50	Biased-84Hr-Anneal	0.4	0.4	0
2600	50	Unbiased	0.4	0.4	0
2700	50	Unbiased	0.4	0.4	0
2800	50	Unbiased	0.4	0.4	0
2900	50	Unbiased	0.4	0.4	0
3000	50	Unbiased	0.4	0.4	0
4000	100	Biased-168Hr-Anneal	0.4	0.4	0
4100	100	Biased-168Hr-Anneal	0.4	0.4	0
4200	100	Biased-168Hr-Anneal	0.4	0.4	0
4300	100	Biased-168Hr-Anneal	0.4	0.4	0
4400	100	Biased-168Hr-Anneal	0.4	0.4	0
4500	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4600	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4700	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4800	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4900	100	Unbiased-168Hr-Anneal	0.4	0.4	0
9300	0	CORRELATION	0.4	0.4	0
9400	0	CORRELATION	0.4	0.4	0
9500	0	CORRELATION	0.4	0.4	0
9600	0	CORRELATION	0.4	0.4	0
9700	0	CORRELATION	0.4	0.4	0

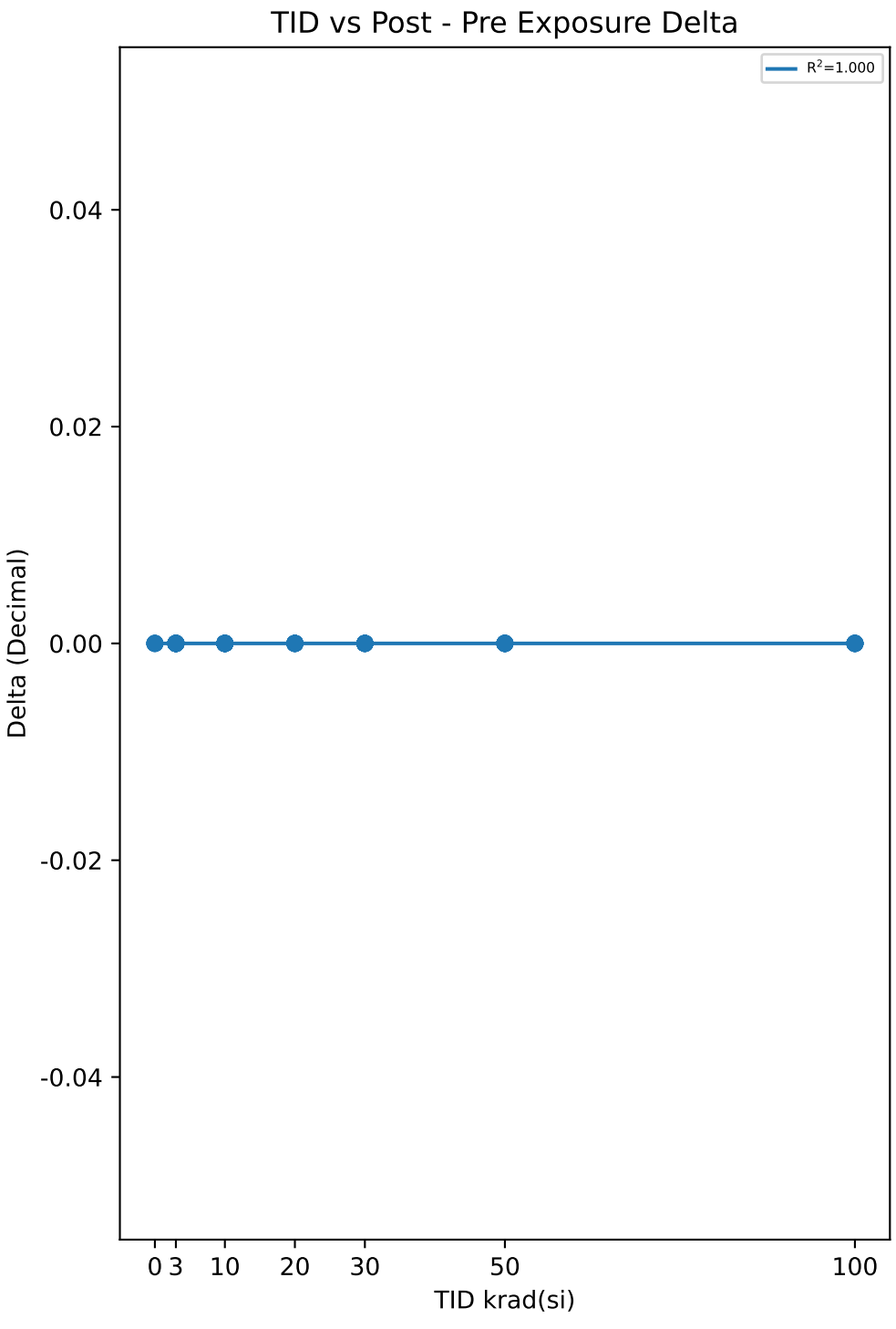


Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
3	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
10	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
100	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

Device Test: 24.55 DUTYCYCLE|GNG_60dml/SYNC1/5//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE





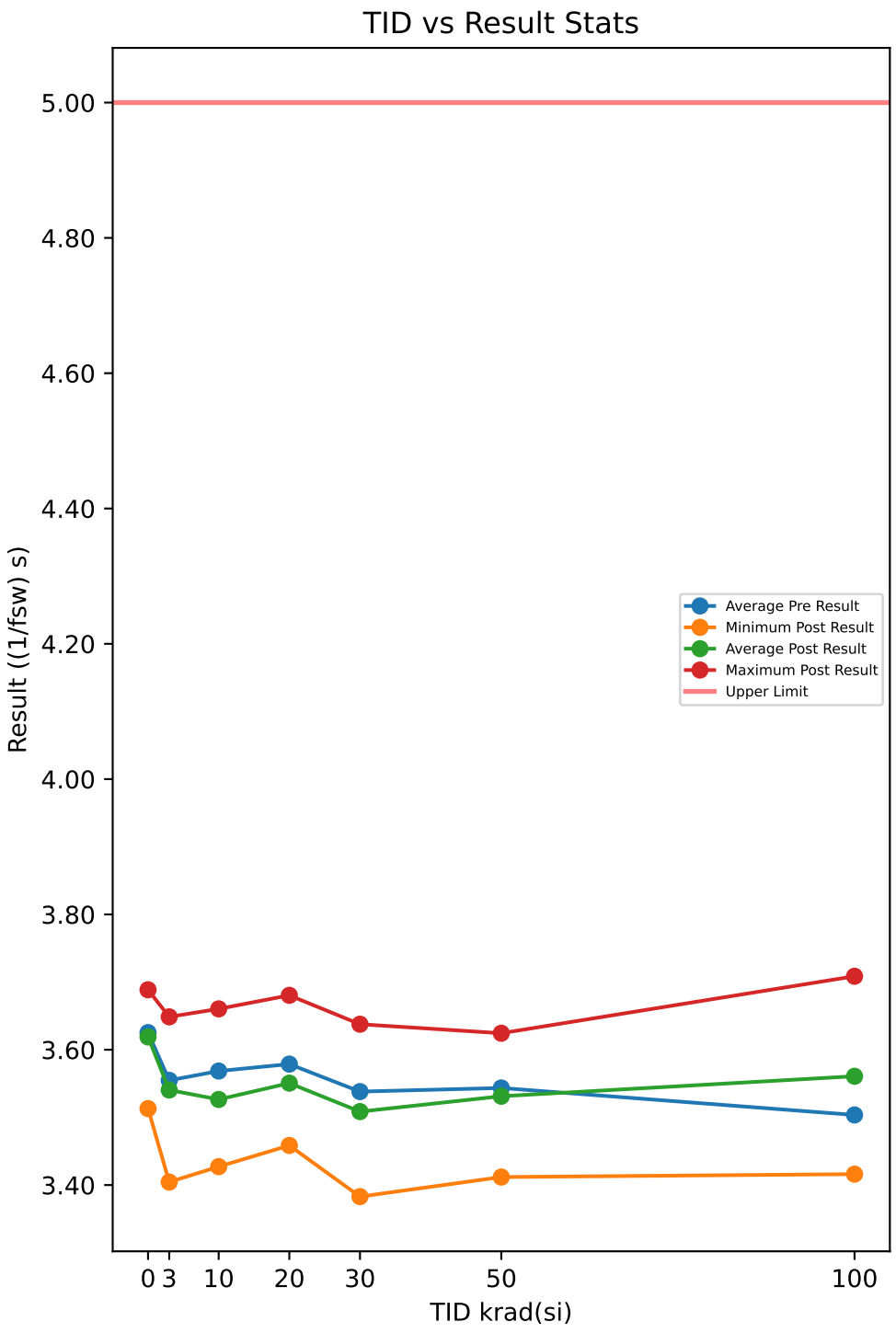
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

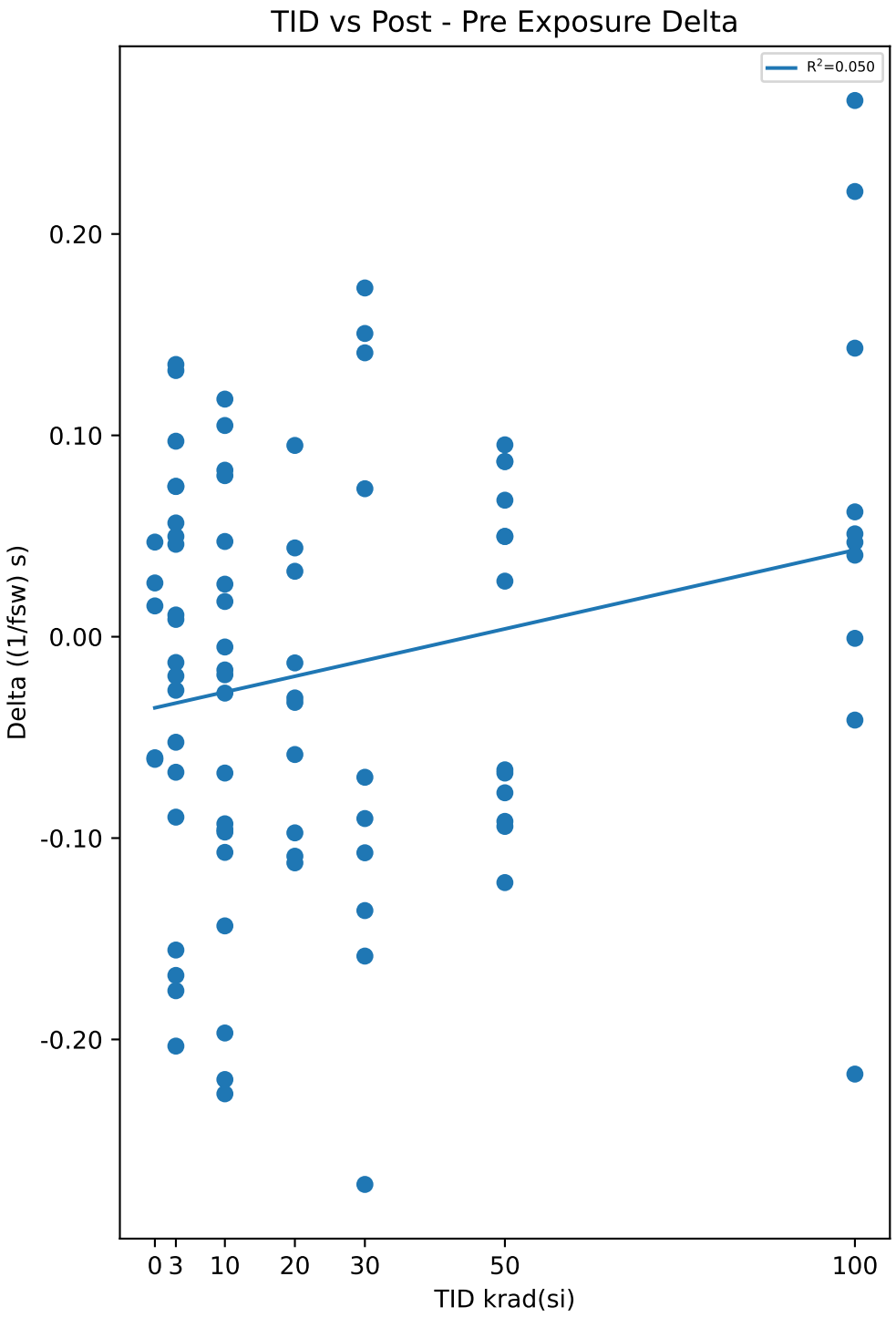
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6	0.6	0
51	3	Biased	0.6	0.6	0
52	3	Biased	0.6	0.6	0
53	3	Biased	0.6	0.6	0
54	3	Biased	0.6	0.6	0
55	3	Unbiased	0.6	0.6	0
56	3	Unbiased	0.6	0.6	0
57	3	Unbiased	0.6	0.6	0
58	3	Unbiased	0.6	0.6	0
59	3	Unbiased	0.6	0.6	0
60	10	Biased	0.6	0.6	0
61	10	Biased	0.6	0.6	0
62	10	Biased	0.6	0.6	0
63	10	Biased	0.6	0.6	0
64	10	Biased	0.6	0.6	0
65	10	Unbiased	0.6	0.6	0
66	10	Unbiased	0.6	0.6	0
67	10	Unbiased	0.6	0.6	0
68	10	Unbiased	0.6	0.6	0
69	10	Unbiased	0.6	0.6	0
100	20	Biased	0.6	0.6	0
200	20	Biased	0.6	0.6	0
300	20	Biased	0.6	0.6	0
400	20	Biased	0.6	0.6	0
500	20	Biased	0.6	0.6	0
600	20	Unbiased	0.6	0.6	0
700	20	Unbiased	0.6	0.6	0
800	20	Unbiased	0.6	0.6	0
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.6	0.6	0
1100	30	Biased	0.6	0.6	0
1200	30	Biased	0.6	0.6	0
1300	30	Biased	0.6	0.6	0
1400	30	Biased	0.6	0.6	0
1500	30	Biased	0.6	0.6	0
1600	30	Unbiased	0.6	0.6	0
1700	30	Unbiased	0.6	0.6	0
1800	30	Unbiased	0.6	0.6	0
1900	30	Unbiased	0.6	0.6	0
2000	30	Unbiased	0.6	0.6	0
2100	50	Biased-84Hr-Anneal	0.6	0.6	0
2200	50	Biased-84Hr-Anneal	0.6	0.6	0
2300	50	Biased-84Hr-Anneal	0.6	0.6	0
2400	50	Biased-84Hr-Anneal	0.6	0.6	0
2500	50	Biased-84Hr-Anneal	0.6	0.6	0
2600	50	Unbiased	0.6	0.6	0
2700	50	Unbiased	0.6	0.6	0
2800	50	Unbiased	0.6	0.6	0
2900	50	Unbiased	0.6	0.6	0
3000	50	Unbiased	0.6	0.6	0
4000	100	Biased-168Hr-Anneal	0.6	0.6	0
4100	100	Biased-168Hr-Anneal	0.6	0.6	0
4200	100	Biased-168Hr-Anneal	0.6	0.6	0
4300	100	Biased-168Hr-Anneal	0.6	0.6	0
4400	100	Biased-168Hr-Anneal	0.6	0.6	0
4500	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4600	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4700	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4800	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4900	100	Unbiased-168Hr-Anneal	0.6	0.6	0
9300	0	CORRELATION	0.6	0.6	0
9400	0	CORRELATION	0.6	0.6	0
9500	0	CORRELATION	0.6	0.6	0
9600	0	CORRELATION	0.6	0.6	0
9700	0	CORRELATION	0.6	0.6	0

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
3	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
10	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
100	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

Device Test: 24.56 TIMING|CLKDETECT/SYNC1/5//511k//@T_CLOCK_DET





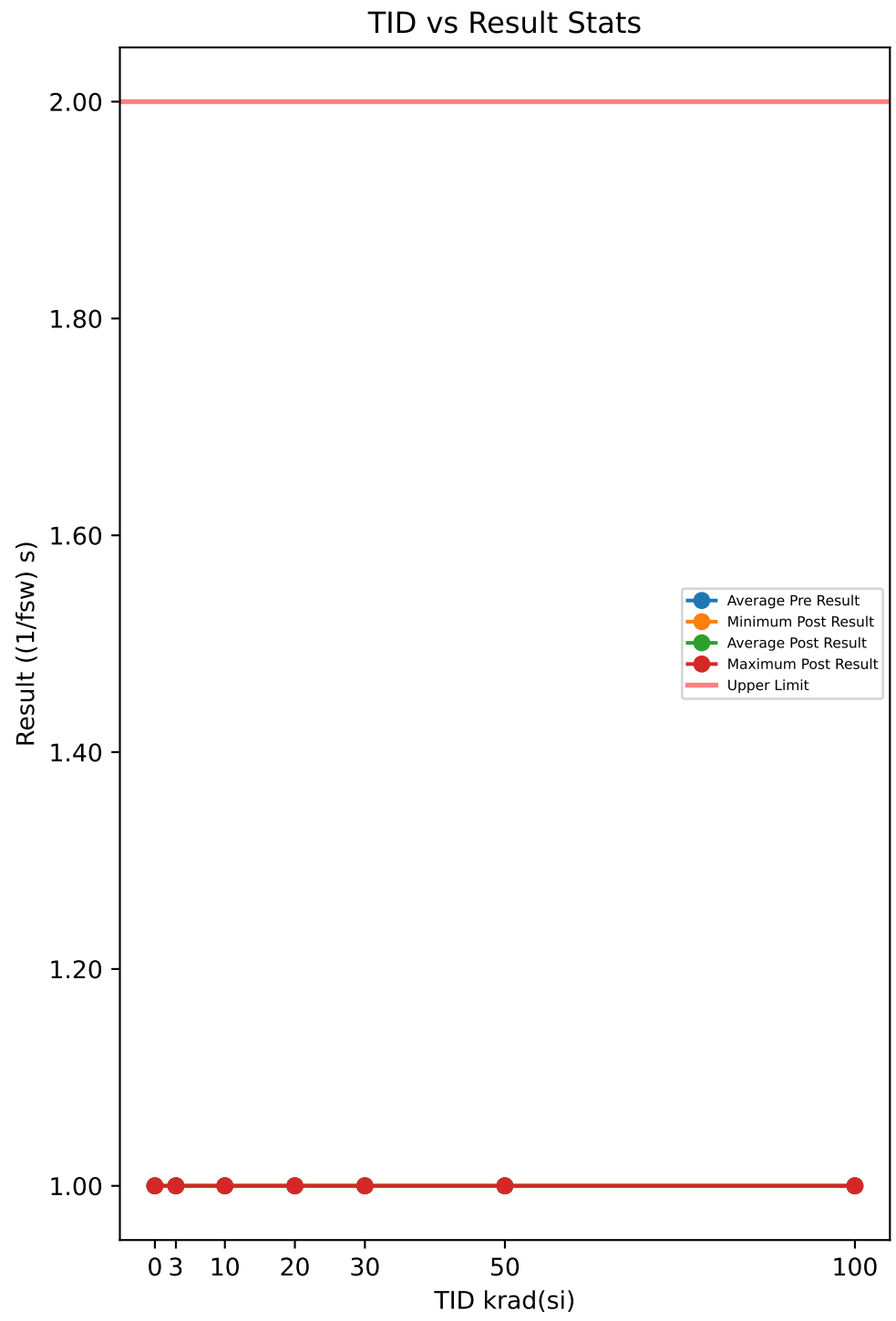
Test Results (Upper Limit = 5.0 ((1/fsw) s))

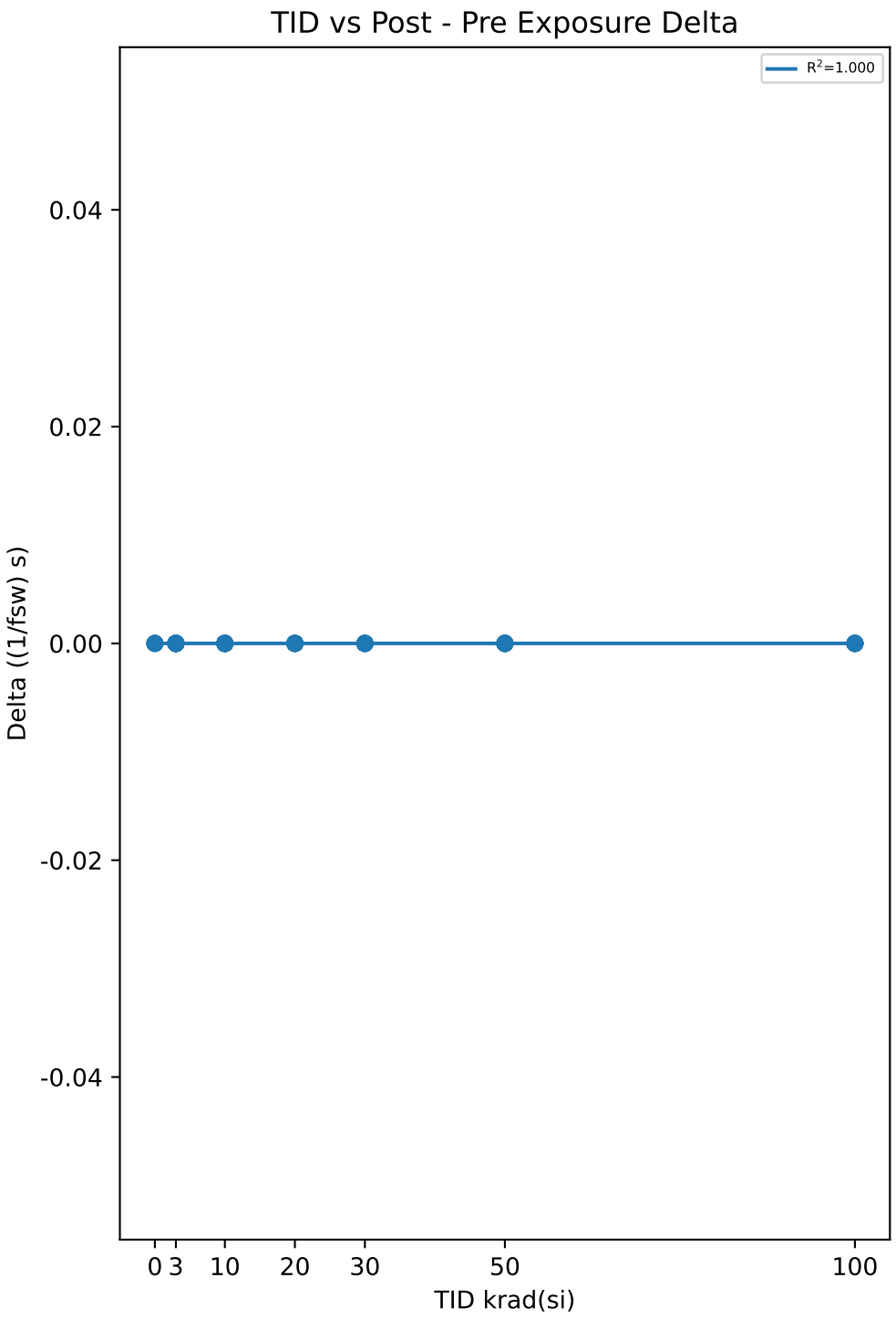
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.4763	3.5222	0.0459
51	3	Biased	3.5651	3.5759	0.0108
52	3	Biased	3.495	3.6302	0.1352
53	3	Biased	3.5776	3.488	-0.0896
54	3	Biased	3.6739	3.4981	-0.1758
55	3	Unbiased	3.4738	3.606	0.1322
56	3	Unbiased	3.5921	3.6486	0.0565
57	3	Unbiased	3.4949	3.4425	-0.0524
58	3	Unbiased	3.5726	3.4044	-0.1682
59	3	Unbiased	3.6151	3.5885	-0.0266
60	10	Biased	3.6363	3.5393	-0.097
61	10	Biased	3.5123	3.4843	-0.028
62	10	Biased	3.6471	3.4272	-0.2199
63	10	Biased	3.5208	3.4531	-0.0677
64	10	Biased	3.572	3.5555	-0.0165
65	10	Unbiased	3.5804	3.6604	0.08
66	10	Unbiased	3.6539	3.635	-0.0189
67	10	Unbiased	3.5893	3.4936	-0.0957
68	10	Unbiased	3.4108	3.4935	0.0827
69	10	Unbiased	3.4183	3.5232	0.1049
100	20	Biased	3.517	3.4585	-0.0585
200	20	Biased	3.5465	3.579	0.0325
300	20	Biased	3.5058	3.4732	-0.0326
400	20	Biased	3.6521	3.5398	-0.1123
500	20	Biased	3.5247	3.5688	0.0441
600	20	Unbiased	3.6394	3.5304	-0.109
700	20	Unbiased	3.5975	3.5001	-0.0974
800	20	Unbiased	3.666	3.6356	-0.0304
900	20	Unbiased	3.5531	3.5401	-0.013
1000	20	Unbiased	3.5854	3.6804	0.095
1100	30	Biased	3.4871	3.6377	0.1506
1200	30	Biased	3.4732	3.3829	-0.0903
1300	30	Biased	3.4923	3.5658	0.0735
1400	30	Biased	3.7147	3.4427	-0.272
1500	30	Biased	3.6151	3.4791	-0.136
1600	30	Unbiased	3.6232	3.4646	-0.1586
1700	30	Unbiased	3.5177	3.4104	-0.1073
1800	30	Unbiased	3.4273	3.5683	0.141
1900	30	Unbiased	3.4202	3.5934	0.1732
2000	30	Unbiased	3.6104	3.5406	-0.0698
2100	50	Biased-84Hr-Anneal	3.509	3.5588	0.0498
2200	50	Biased-84Hr-Anneal	3.5422	3.4745	-0.0677
2300	50	Biased-84Hr-Anneal	3.5322	3.4405	-0.0917
2400	50	Biased-84Hr-Anneal	3.6299	3.5638	-0.0661
2500	50	Biased-84Hr-Anneal	3.5443	3.4501	-0.0942
2600	50	Unbiased	3.4403	3.5356	0.0953
2700	50	Unbiased	3.5181	3.5859	0.0678
2800	50	Unbiased	3.7019	3.6244	-0.0775
2900	50	Unbiased	3.4827	3.5103	0.0276
3000	50	Unbiased	3.5339	3.4118	-0.1221
4000	100	Biased-168Hr-Anneal	3.4895	3.5364	0.0469
4100	100	Biased-168Hr-Anneal	3.5202	3.5713	0.0511
4200	100	Biased-168Hr-Anneal	3.6333	3.4161	-0.2172
4300	100	Biased-168Hr-Anneal	3.4003	3.5436	0.1433
4400	100	Biased-168Hr-Anneal	3.4423	3.7086	0.2663
4500	100	Unbiased-168Hr-Anneal	3.5474	3.5466	-0.0008
4600	100	Unbiased-168Hr-Anneal	3.4961	3.5366	0.0405
4700	100	Unbiased-168Hr-Anneal	3.4533	3.6744	0.2211
4800	100	Unbiased-168Hr-Anneal	3.5117	3.5737	0.062
4900	100	Unbiased-168Hr-Anneal	3.5419	3.5005	-0.0414
9300	0	CORRELATION	3.6053	3.6206	0.0153
9400	0	CORRELATION	3.5775	3.6042	0.0267
9500	0	CORRELATION	3.5739	3.513	-0.0609
9600	0	CORRELATION	3.7282	3.6681	-0.0601
9700	0	CORRELATION	3.6416	3.6886	0.047

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	3.5739	3.6253	3.7282	0.063602	3.513	3.6189	3.6886	0.068397	-0.0609	-0.0064	0.047	0.050675
3	3.4738	3.5536	3.6739	0.066691	3.4044	3.5404	3.6486	0.082054	-0.1758	-0.0132	0.1352	0.11061
10	3.4108	3.5541	3.6539	0.087844	3.4272	3.5265	3.6604	0.074474	-0.2199	-0.02761	0.1049	0.099744
20	3.5058	3.5788	3.666	0.05852	3.4585	3.5506	3.6804	0.069016	-0.1123	-0.02816	0.095	0.069645
30	3.4202	3.5381	3.7147	0.097234	3.3829	3.5085	3.6377	0.084532	-0.272	-0.02957	0.1732	0.15326
50	3.4403	3.5434	3.7019	0.073756	3.4118	3.5156	3.6244	0.069754	-0.1221	-0.02788	0.0953	0.07909
100	3.4003	3.5036	3.6333	0.064775	3.4161	3.5608	3.7086	0.082515	-0.2172	0.05718	0.2663	0.13615

Device Test: 24.57 TIMING|CLKDETECT/SYNC1/5//511k//@T_CLOCK_DET_EXT





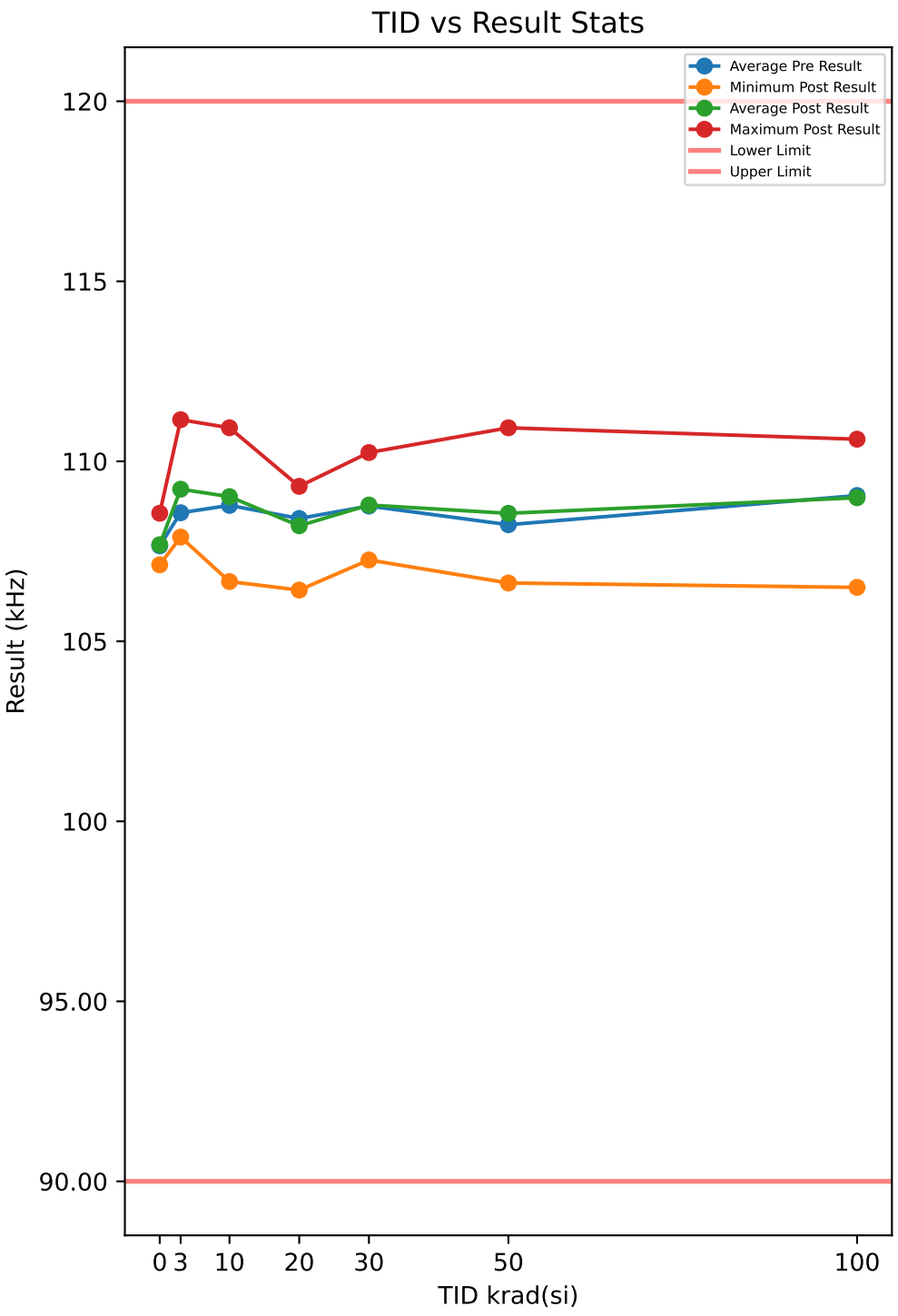
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1	1	0
51	3	Biased	1	1	0
52	3	Biased	1	1	0
53	3	Biased	1	1	0
54	3	Biased	1	1	0
55	3	Unbiased	1	1	0
56	3	Unbiased	1	1	0
57	3	Unbiased	1	1	0
58	3	Unbiased	1	1	0
59	3	Unbiased	1	1	0
60	10	Biased	1	1	0
61	10	Biased	1	1	0
62	10	Biased	1	1	0
63	10	Biased	1	1	0
64	10	Biased	1	1	0
65	10	Unbiased	1	1	0
66	10	Unbiased	1	1	0
67	10	Unbiased	1	1	0
68	10	Unbiased	1	1	0
69	10	Unbiased	1	1	0
100	20	Biased	1	1	0
200	20	Biased	1	1	0
300	20	Biased	1	1	0
400	20	Biased	1	1	0
500	20	Biased	1	1	0
600	20	Unbiased	1	1	0
700	20	Unbiased	1	1	0
800	20	Unbiased	1	1	0
900	20	Unbiased	1	1	0
1000	20	Unbiased	1	1	0
1100	30	Biased	1	1	0
1200	30	Biased	1	1	0
1300	30	Biased	1	1	0
1400	30	Biased	1	1	0
1500	30	Biased	1	1	0
1600	30	Unbiased	1	1	0
1700	30	Unbiased	1	1	0
1800	30	Unbiased	1	1	0
1900	30	Unbiased	1	1	0
2000	30	Unbiased	1	1	0
2100	50	Biased-84Hr-Anneal	1	1	0
2200	50	Biased-84Hr-Anneal	1	1	0
2300	50	Biased-84Hr-Anneal	1	1	0
2400	50	Biased-84Hr-Anneal	1	1	0
2500	50	Biased-84Hr-Anneal	1	1	0
2600	50	Unbiased	1	1	0
2700	50	Unbiased	1	1	0
2800	50	Unbiased	1	1	0
2900	50	Unbiased	1	1	0
3000	50	Unbiased	1	1	0
4000	100	Biased-168Hr-Anneal	1	1	0
4100	100	Biased-168Hr-Anneal	1	1	0
4200	100	Biased-168Hr-Anneal	1	1	0
4300	100	Biased-168Hr-Anneal	1	1	0
4400	100	Biased-168Hr-Anneal	1	1	0
4500	100	Unbiased-168Hr-Anneal	1	1	0
4600	100	Unbiased-168Hr-Anneal	1	1	0
4700	100	Unbiased-168Hr-Anneal	1	1	0
4800	100	Unbiased-168Hr-Anneal	1	1	0
4900	100	Unbiased-168Hr-Anneal	1	1	0
9300	0	CORRELATION	1	1	0
9400	0	CORRELATION	1	1	0
9500	0	CORRELATION	1	1	0
9600	0	CORRELATION	1	1	0
9700	0	CORRELATION	1	1	0

Test Statistics ((1/fsw) s)

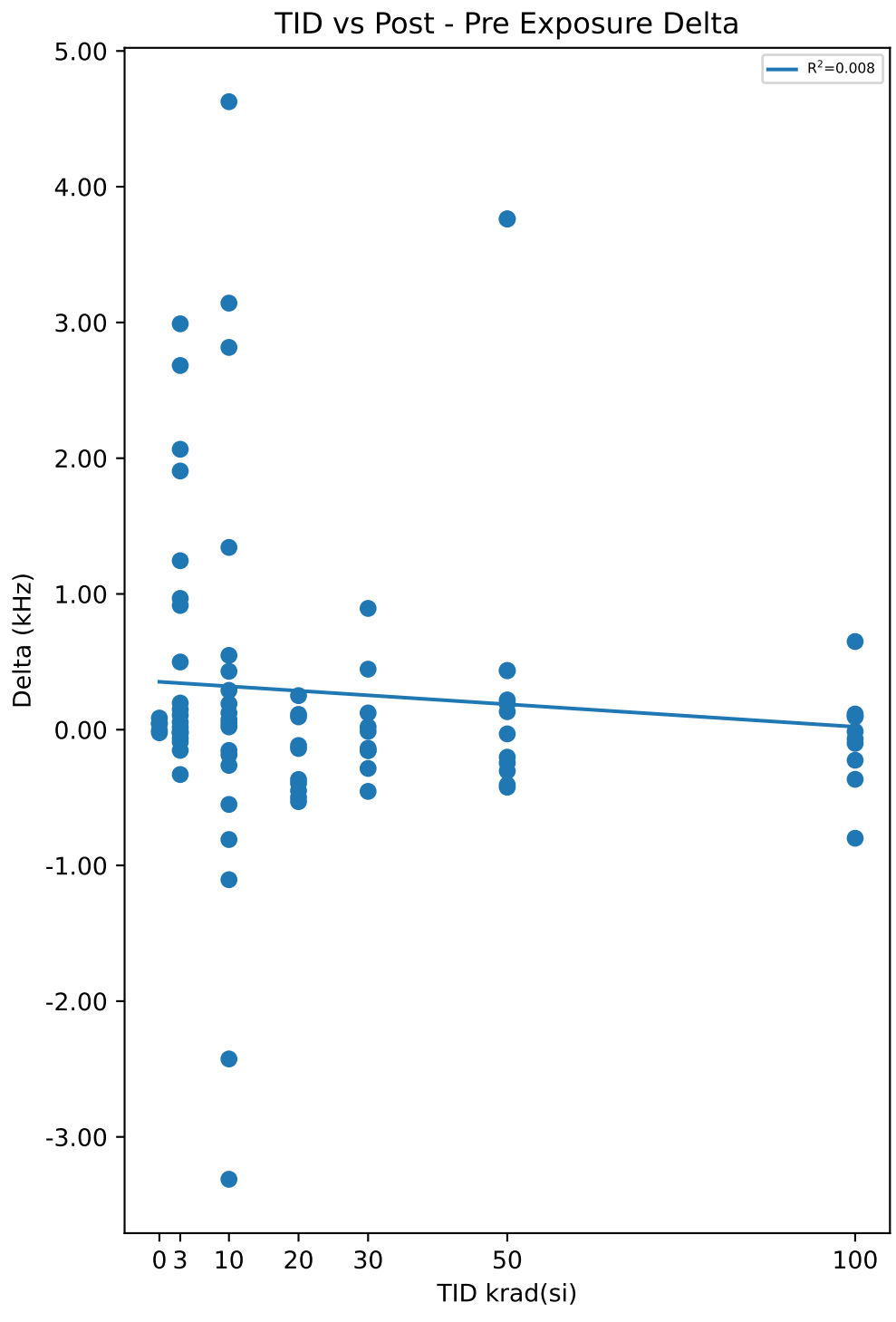
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1	1	1	0	1	1	1	0	0	0	0	0
3	1	1	1	0	1	1	1	0	0	0	0	0
10	1	1	1	0	1	1	1	0	0	0	0	0
20	1	1	1	0	1	1	1	0	0	0	0	0
30	1	1	1	0	1	1	1	0	0	0	0	0
50	1	1	1	0	1	1	1	0	0	0	0	0
100	1	1	1	0	1	1	1	0	0	0	0	0

Device Test: 24.58 FREQ|100kHz/SYNC1/5//511k//@EXT_SET_FREQ_100kHz



Test Results (Lower Limit = 90.0, Upper Limit = 120.0 (kHz))

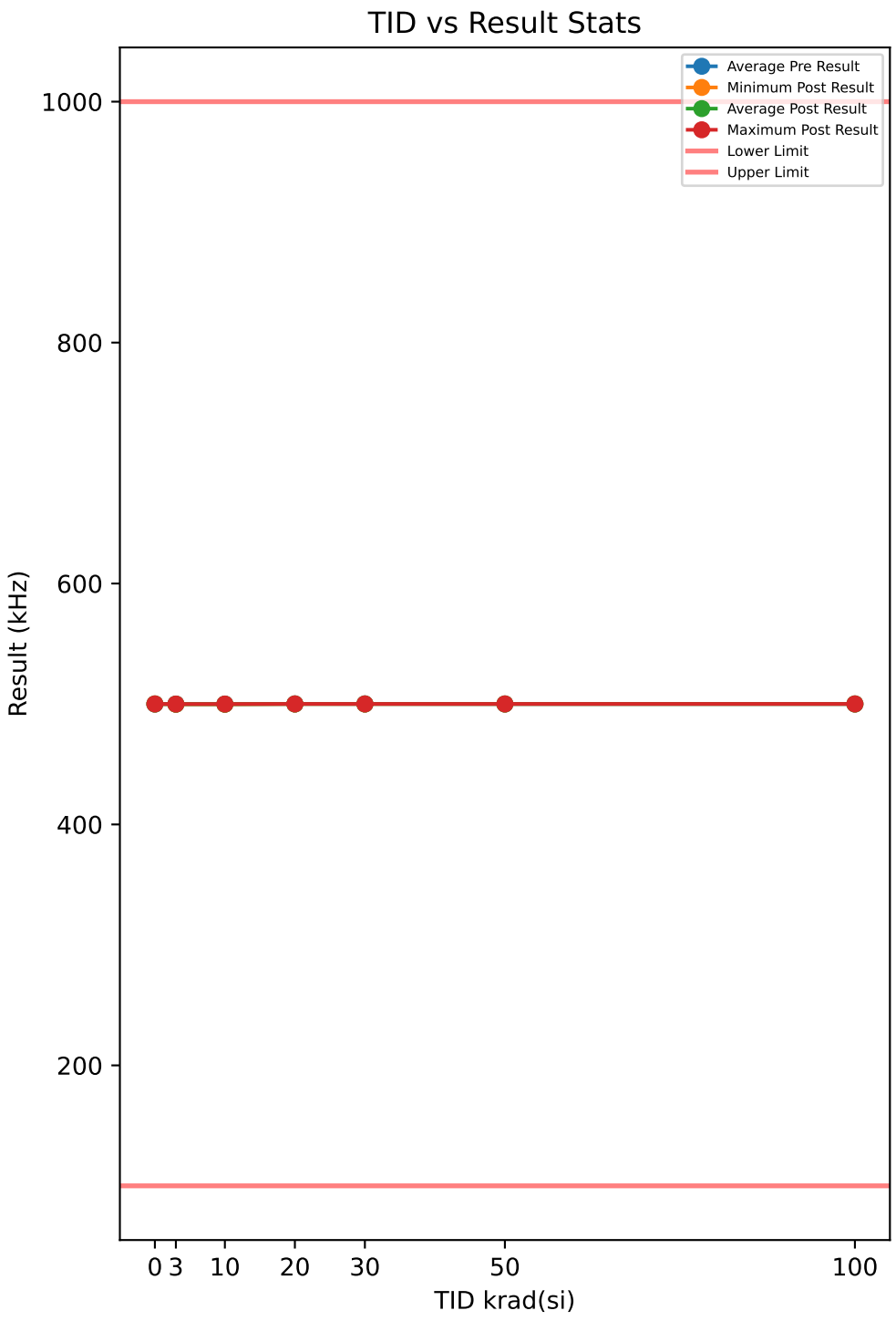
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	108.44	108.42	-0.0226
51	3	Biased	107.79	108.76	0.9671
52	3	Biased	106.11	109.1	2.99
53	3	Biased	109.05	108.72	-0.3305
54	3	Biased	108.45	108.95	0.4986
55	3	Unbiased	107.3	109.2	1.9057
56	3	Unbiased	106.65	107.9	1.2448
57	3	Unbiased	108.63	109.55	0.9151
58	3	Unbiased	109.09	111.16	2.0659
59	3	Unbiased	107.82	110.51	2.683
60	10	Biased	108.1	110.92	2.8162
61	10	Biased	106.31	110.93	4.6262
62	10	Biased	107.23	110.37	3.1424
63	10	Biased	110.12	109.01	-1.1052
64	10	Biased	109.97	106.66	-3.3122
65	10	Unbiased	109.38	108.83	-0.5507
66	10	Unbiased	107.58	106.77	-0.8094
67	10	Unbiased	108.99	109.54	0.5474
68	10	Unbiased	109.83	107.4	-2.4258
69	10	Unbiased	108.41	109.75	1.3427
100	20	Biased	107.14	107.23	0.0944
200	20	Biased	107.03	106.5	-0.5302
300	20	Biased	109.37	108.98	-0.3944
400	20	Biased	109.08	108.94	-0.1386
500	20	Biased	108.57	108.68	0.1126
600	20	Unbiased	106.87	106.42	-0.4496
700	20	Unbiased	109.04	108.68	-0.3668
800	20	Unbiased	108.85	109.1	0.2509
900	20	Unbiased	109.42	109.3	-0.1166
1000	20	Unbiased	108.74	108.24	-0.4973
1100	30	Biased	108.51	108.49	-0.0125
1200	30	Biased	108.17	108.19	0.0207
1300	30	Biased	106.81	107.26	0.4457
1400	30	Biased	108.12	107.84	-0.2856
1500	30	Biased	109.64	109.49	-0.1543
1600	30	Unbiased	108.77	108.89	0.1232
1700	30	Unbiased	109.73	109.28	-0.4546
1800	30	Unbiased	110.38	110.24	-0.1372
1900	30	Unbiased	109.44	109.28	-0.1529
2000	30	Unbiased	108	108.89	0.8934
2100	50	Biased-84Hr-Anneal	107.17	110.93	3.7627
2200	50	Biased-84Hr-Anneal	108.84	108.81	-0.031
2300	50	Biased-84Hr-Anneal	108.45	108.03	-0.424
2400	50	Biased-84Hr-Anneal	108.75	108.5	-0.246
2500	50	Biased-84Hr-Anneal	109.53	109.75	0.2192
2600	50	Unbiased	108.75	108.55	-0.2026
2700	50	Unbiased	107.21	107.35	0.1324
2800	50	Unbiased	106.43	106.62	0.1902
2900	50	Unbiased	108.06	107.76	-0.3046
3000	50	Unbiased	109.18	108.78	-0.4059
4000	100	Biased-168Hr-Anneal	107.3	106.5	-0.7996
4100	100	Biased-168Hr-Anneal	109.15	109.27	0.1155
4200	100	Biased-168Hr-Anneal	109.36	109.35	-0.0128
4300	100	Biased-168Hr-Anneal	108.21	108.3	0.0947
4400	100	Biased-168Hr-Anneal	107.54	108.19	0.6493
4500	100	Unbiased-168Hr-Anneal	109.23	109.33	0.1026
4600	100	Unbiased-168Hr-Anneal	109.6	109.37	-0.2252
4700	100	Unbiased-168Hr-Anneal	110.98	110.61	-0.3656
4800	100	Unbiased-168Hr-Anneal	108.91	108.81	-0.1007
4900	100	Unbiased-168Hr-Anneal	110.23	110.16	-0.0678
9300	0	CORRELATION	107.04	107.12	0.0856
9400	0	CORRELATION	108.03	108.08	0.0469
9500	0	CORRELATION	108.51	108.56	0.0441
9600	0	CORRELATION	107.44	107.42	-0.0229
9700	0	CORRELATION	107.24	107.23	-0.0059

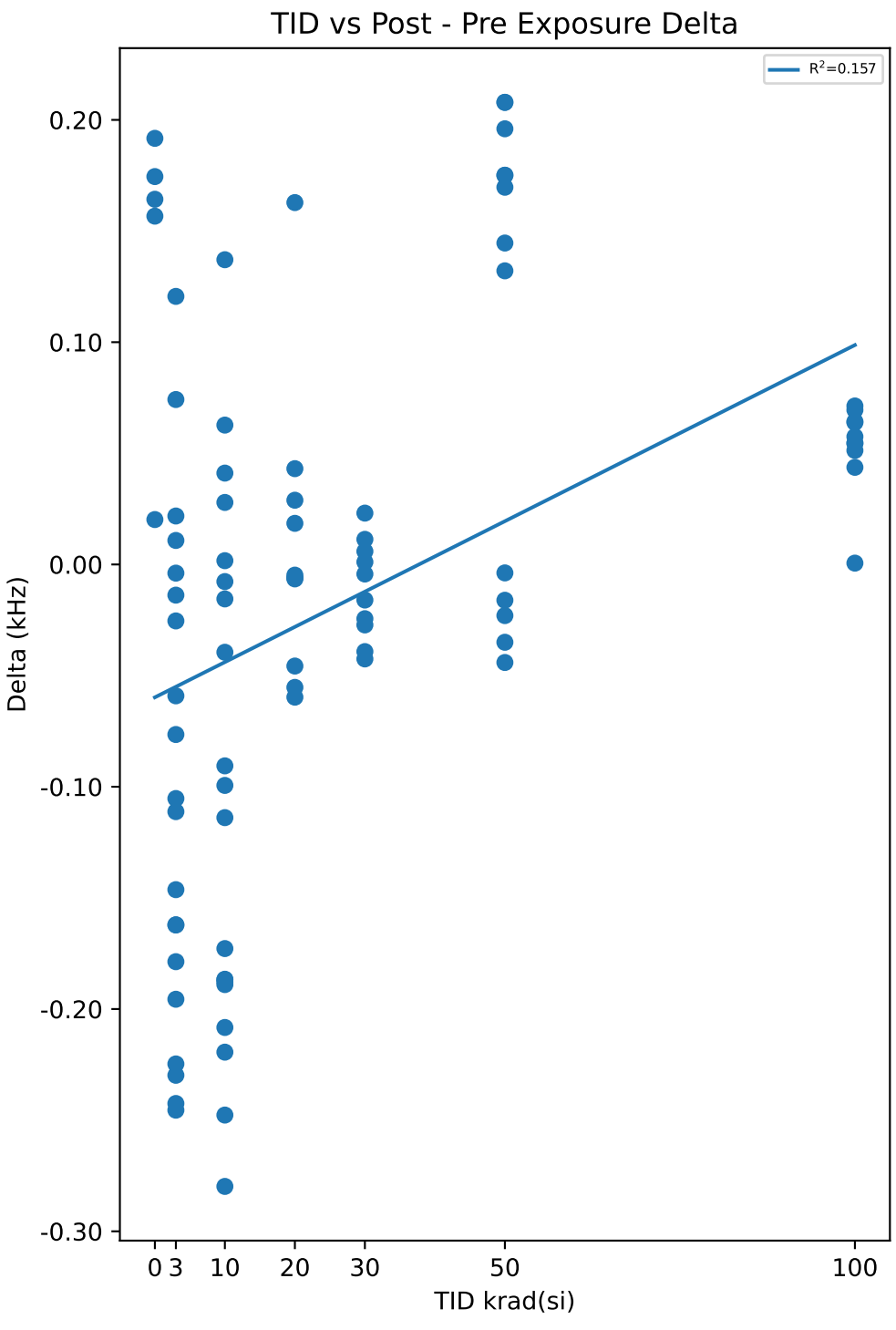


Test Statistics (kHz)

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	107.04	107.65	108.51	0.60829	107.12	107.68	108.56	0.61418	-0.0229	0.02956	0.0856	0.043767
3	106.11	107.93	109.09	0.99979	107.9	109.23	111.16	0.96945	-0.3305	1.2917	2.99	1.1072
10	106.31	108.59	110.12	1.2873	106.66	109.02	110.93	1.6044	-3.3122	0.42716	4.6262	2.55
20	106.87	108.41	109.42	1.0002	106.42	108.21	109.3	1.0863	-0.5302	-0.20356	0.2509	0.28356
30	106.81	108.76	110.38	1.054	107.26	108.79	110.24	0.86923	-0.4546	0.02859	0.8934	0.38854
50	106.43	108.24	109.53	1.0001	106.62	108.51	110.93	1.2154	-0.424	0.26904	3.7627	1.2506
100	107.3	109.05	110.98	1.1374	106.5	108.99	110.61	1.1469	-0.7996	-0.06096	0.6493	0.37356

Device Test: 24.6 FREQ|500kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE





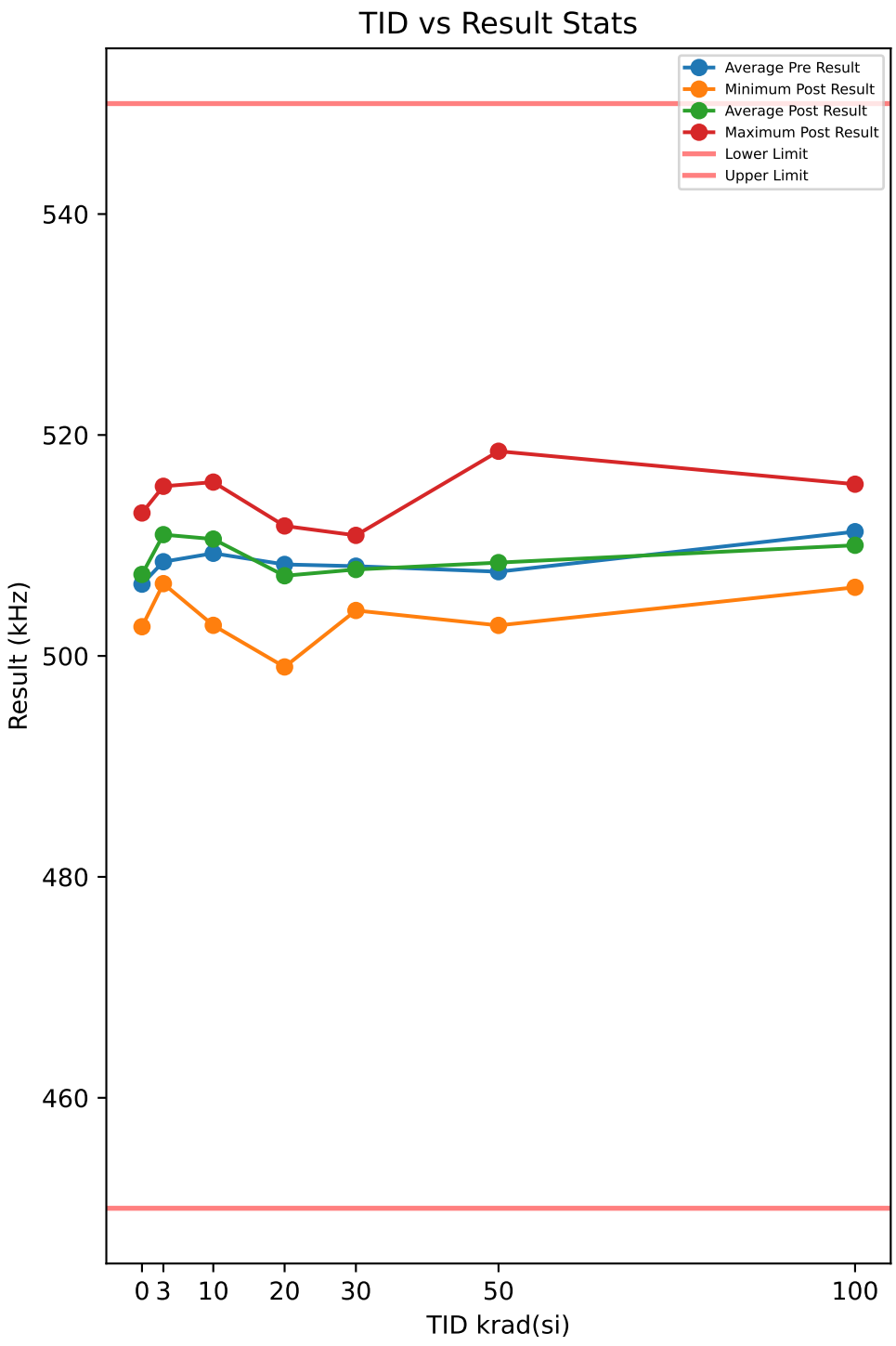
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

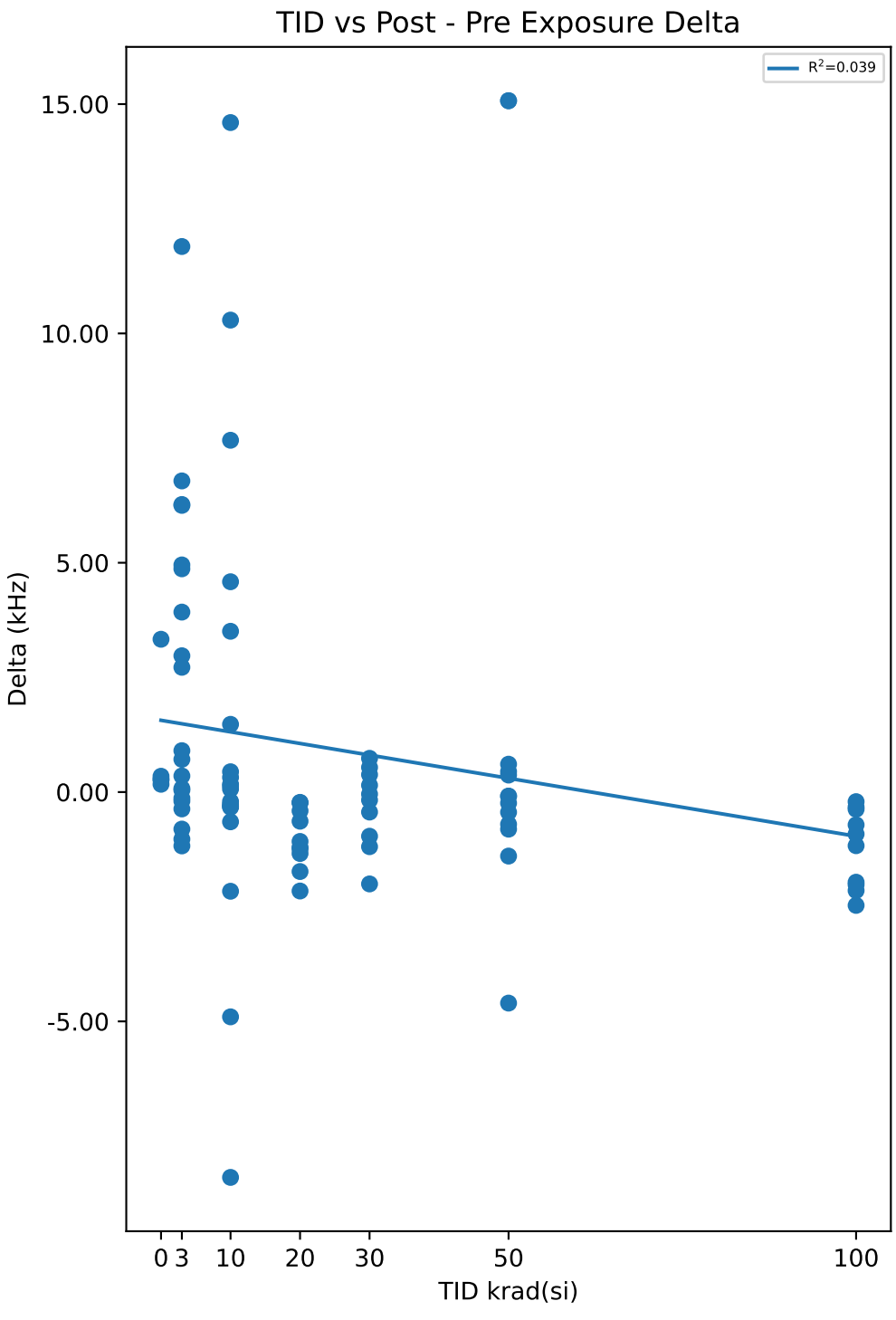
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	500.06	499.81	-0.2425
51	3	Biased	500.04	499.93	-0.1053
52	3	Biased	500.01	499.85	-0.1622
53	3	Biased	500.02	499.84	-0.1787
54	3	Biased	500.05	499.82	-0.2298
55	3	Unbiased	500.05	499.85	-0.1956
56	3	Unbiased	500.03	499.87	-0.1621
57	3	Unbiased	500.04	499.89	-0.1463
58	3	Unbiased	500.05	499.8	-0.2455
59	3	Unbiased	500.03	499.8	-0.2247
60	10	Biased	500.04	499.85	-0.1878
61	10	Biased	500.03	499.84	-0.1866
62	10	Biased	500.07	499.79	-0.2798
63	10	Biased	500.06	499.85	-0.2083
64	10	Biased	500.03	499.84	-0.189
65	10	Unbiased	500.03	499.81	-0.2194
66	10	Unbiased	500.06	499.95	-0.1139
67	10	Unbiased	500.05	499.8	-0.2477
68	10	Unbiased	500.03	499.86	-0.1728
69	10	Unbiased	500.02	499.84	-0.1868
100	20	Biased	499.85	500.02	0.1628
200	20	Biased	500.05	499.99	-0.0553
300	20	Biased	500.04	500.06	0.0185
400	20	Biased	500.03	500.02	-0.0065
500	20	Biased	500.02	500.02	-0.006
600	20	Unbiased	500.09	500.03	-0.0597
700	20	Unbiased	500.03	500.06	0.0289
800	20	Unbiased	500.05	500.01	-0.0457
900	20	Unbiased	500.02	500.06	0.0431
1000	20	Unbiased	500.06	500.06	-0.0048
1100	30	Biased	500.05	500.01	-0.0392
1200	30	Biased	500.04	500.04	-0.0043
1300	30	Biased	500.02	500.04	0.0231
1400	30	Biased	500.05	500.03	-0.0272
1500	30	Biased	500.03	500.04	0.0113
1600	30	Unbiased	500.04	500.05	0.0059
1700	30	Unbiased	500.01	499.99	-0.0244
1800	30	Unbiased	500.05	500.03	-0.016
1900	30	Unbiased	500.05	500.05	0.0011
2000	30	Unbiased	500.05	500.01	-0.0425
2100	50	Biased-84Hr-Anneal	499.84	500.04	0.2079
2200	50	Biased-84Hr-Anneal	499.84	500.03	0.196
2300	50	Biased-84Hr-Anneal	499.9	500.03	0.1321
2400	50	Biased-84Hr-Anneal	499.85	499.99	0.1446
2500	50	Biased-84Hr-Anneal	499.86	500.02	0.1697
2600	50	Unbiased	500.05	500.03	-0.0161
2700	50	Unbiased	500.06	500.03	-0.035
2800	50	Unbiased	500.06	500.04	-0.023
2900	50	Unbiased	500.06	500.02	-0.0441
3000	50	Unbiased	500.05	500.05	-0.0038
4000	100	Biased-168Hr-Anneal	500	500.05	0.0513
4100	100	Biased-168Hr-Anneal	499.97	500.03	0.0639
4200	100	Biased-168Hr-Anneal	499.98	500.04	0.0546
4300	100	Biased-168Hr-Anneal	499.96	500.02	0.0575
4400	100	Biased-168Hr-Anneal	499.99	500.05	0.0643
4500	100	Unbiased-168Hr-Anneal	499.96	500.03	0.0713
4600	100	Unbiased-168Hr-Anneal	499.96	500.03	0.0695
4700	100	Unbiased-168Hr-Anneal	499.98	500.02	0.0437
4800	100	Unbiased-168Hr-Anneal	500.01	500.01	0.0006
4900	100	Unbiased-168Hr-Anneal	499.97	500.02	0.0545
9300	0	CORRELATION	500.03	500.05	0.0202
9400	0	CORRELATION	499.84	500.03	0.1917
9500	0	CORRELATION	499.85	500.01	0.1643
9600	0	CORRELATION	499.86	500.03	0.1745
9700	0	CORRELATION	499.88	500.04	0.1567

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	499.84	499.89	500.03	0.078273	500.01	500.03	500.05	0.012976	0.0202	0.14148	0.1917	0.069054
3	500.01	500.04	500.06	0.014123	499.8	499.85	499.93	0.042597	-0.2455	-0.18927	-0.1053	0.046444
10	500.02	500.04	500.07	0.01699	499.79	499.84	499.95	0.043938	-0.2798	-0.19921	-0.1139	0.044546
20	499.85	500.02	500.09	0.063266	499.99	500.03	500.06	0.025269	-0.0597	0.00753	0.1628	0.064794
30	500.01	500.04	500.05	0.01438	499.99	500.03	500.05	0.019113	-0.0425	-0.01122	0.0231	0.022088
50	499.84	499.96	500.06	0.10823	499.99	500.03	500.05	0.016322	-0.0441	0.07283	0.2079	0.10526
100	499.96	499.98	500.01	0.018288	500.01	500.03	500.05	0.012738	0.0006	0.05312	0.0713	0.020313

Device Test: 24.65 FREQ|500kHz/SYNC1/5//90.9k//@EXT_SET_FREQ_500kHz





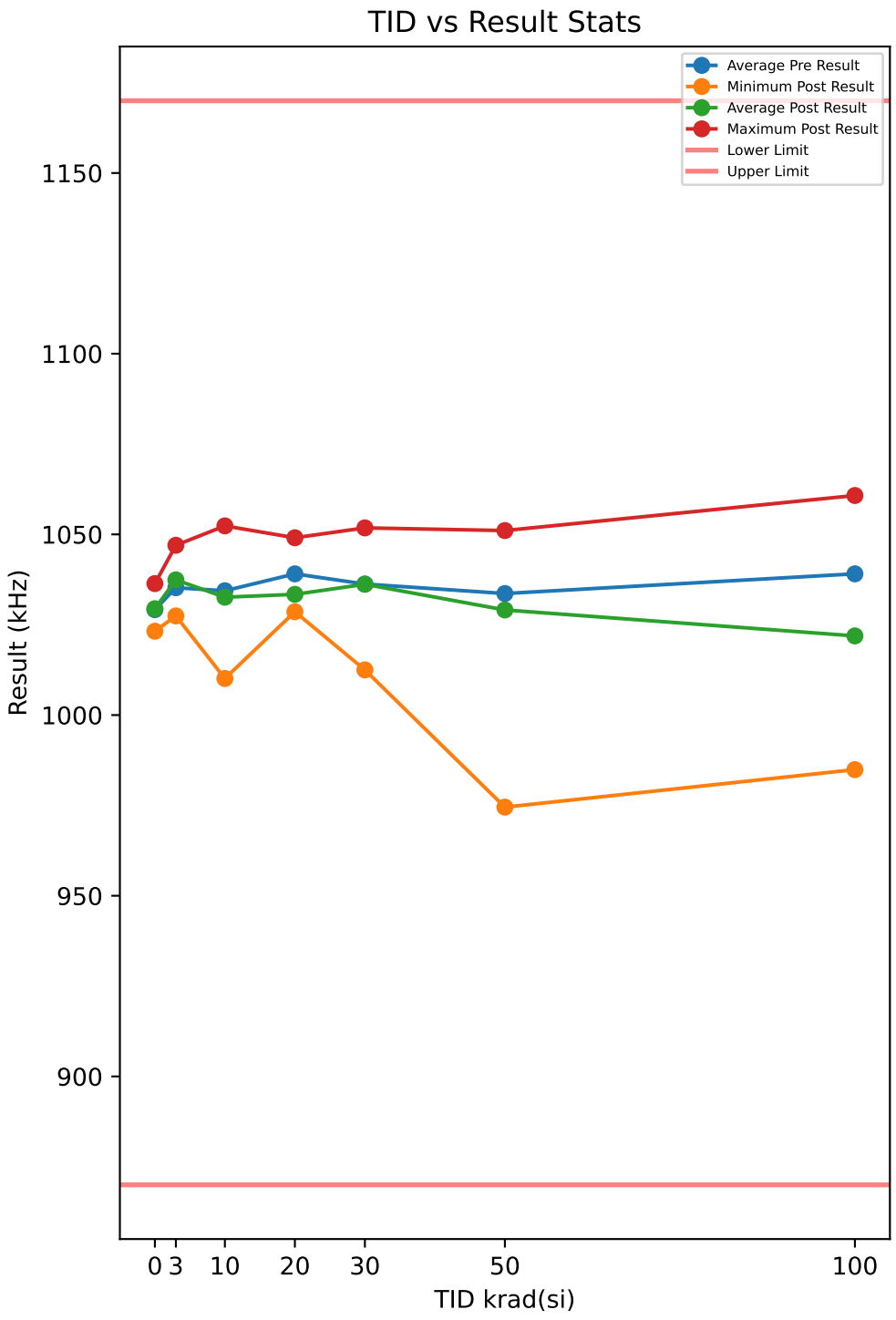
Test Results (Lower Limit = 450.0, Upper Limit = 550.0 (kHz))

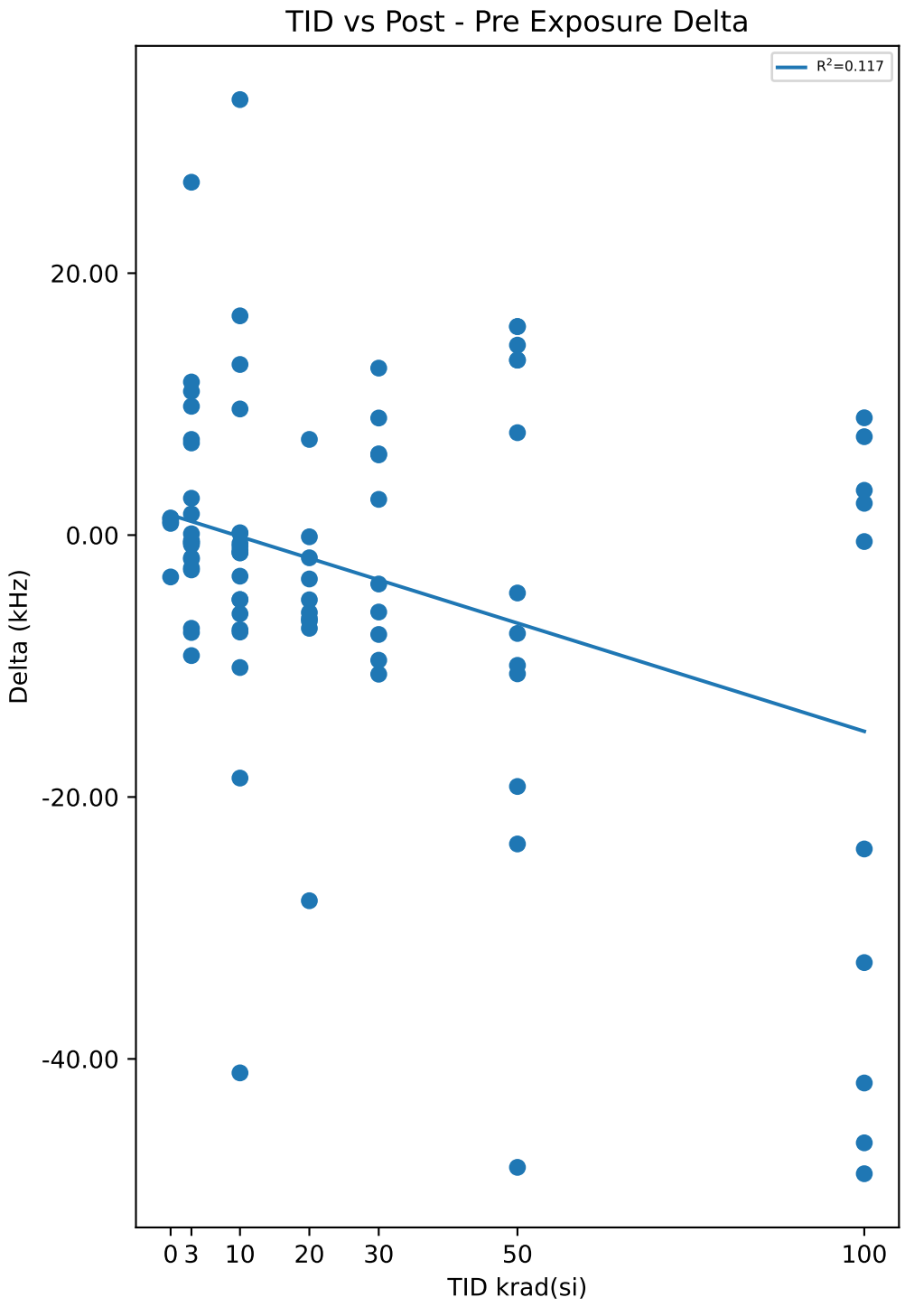
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	502.89	509.67	6.7842
51	3	Biased	511.5	510.32	-1.1739
52	3	Biased	503.46	515.36	11.895
53	3	Biased	504.81	509.77	4.9524
54	3	Biased	505.46	508.18	2.7205
55	3	Unbiased	504.88	509.75	4.8679
56	3	Unbiased	502.62	506.54	3.924
57	3	Unbiased	507.92	514.17	6.251
58	3	Unbiased	508.55	514.82	6.2697
59	3	Unbiased	508.24	511.21	2.9719
60	10	Biased	511.15	515.74	4.5857
61	10	Biased	500.8	515.4	14.598
62	10	Biased	504.04	514.33	10.291
63	10	Biased	510.94	508.78	-2.1626
64	10	Biased	511.73	503.33	-8.4016
65	10	Unbiased	506.62	510.13	3.5057
66	10	Unbiased	507.67	502.77	-4.9009
67	10	Unbiased	509.98	510.3	0.3196
68	10	Unbiased	511.51	510.86	-0.6483
69	10	Unbiased	506.49	514.16	7.6705
100	20	Biased	506.95	504.79	-2.1575
200	20	Biased	507.52	506.44	-1.0768
300	20	Biased	508.67	507.33	-1.3398
400	20	Biased	512.97	511.77	-1.2027
500	20	Biased	511.04	510.63	-0.4094
600	20	Unbiased	500.73	499	-1.7323
700	20	Unbiased	508.05	507.83	-0.2245
800	20	Unbiased	509.52	508.88	-0.6355
900	20	Unbiased	511.3	510.06	-1.2392
1000	20	Unbiased	506.07	505.84	-0.2336
1100	30	Biased	506.85	506.68	-0.1752
1200	30	Biased	509.49	508.3	-1.1907
1300	30	Biased	503.38	504.11	0.7355
1400	30	Biased	505.31	505.46	0.1484
1500	30	Biased	507.95	506.99	-0.9629
1600	30	Unbiased	510.56	510.13	-0.4362
1700	30	Unbiased	511.21	509.21	-2.003
1800	30	Unbiased	510.96	510.91	-0.0441
1900	30	Unbiased	509.1	509.48	0.3797
2000	30	Unbiased	506.43	506.97	0.5381
2100	50	Biased-84Hr-Anneal	503.45	518.53	15.074
2200	50	Biased-84Hr-Anneal	508.46	503.86	-4.6014
2300	50	Biased-84Hr-Anneal	510.76	510.05	-0.7013
2400	50	Biased-84Hr-Anneal	505.77	505.33	-0.4393
2500	50	Biased-84Hr-Anneal	512.95	513.32	0.3705
2600	50	Unbiased	510.42	510.18	-0.2403
2700	50	Unbiased	505.45	505.9	0.4481
2800	50	Unbiased	502.16	502.76	0.6078
2900	50	Unbiased	509.15	507.76	-1.3958
3000	50	Unbiased	507.68	506.87	-0.8088
4000	100	Biased-168Hr-Anneal	507.38	506.21	-1.1693
4100	100	Biased-168Hr-Anneal	511.43	509.28	-2.1476
4200	100	Biased-168Hr-Anneal	511.46	510.74	-0.7146
4300	100	Biased-168Hr-Anneal	507.81	507.49	-0.3264
4400	100	Biased-168Hr-Anneal	506.95	506.74	-0.209
4500	100	Unbiased-168Hr-Anneal	510.58	510.2	-0.3749
4600	100	Unbiased-168Hr-Anneal	511.57	509.1	-2.4708
4700	100	Unbiased-168Hr-Anneal	517.51	515.54	-1.9653
4800	100	Unbiased-168Hr-Anneal	510.46	509.55	-0.9155
4900	100	Unbiased-168Hr-Anneal	517.33	515.31	-2.0199
9300	0	CORRELATION	503.86	507.2	3.3318
9400	0	CORRELATION	512.67	512.94	0.2654
9500	0	CORRELATION	506.07	506.42	0.345
9600	0	CORRELATION	502.47	502.64	0.1701
9700	0	CORRELATION	507.41	507.69	0.2818

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	502.47	506.5	512.67	3.9462	502.64	507.38	512.94	3.6878	0.1701	0.87882	3.3318	1.3727
3	502.62	506.03	511.5	2.9051	506.54	510.98	515.36	2.9211	-1.1739	4.9463	11.895	3.3743
10	500.8	508.09	511.73	3.6571	502.77	510.58	515.74	4.6412	-8.4016	2.4856	14.598	7.0645
20	500.73	508.28	512.97	3.4088	499	507.26	511.77	3.6422	-2.1575	-1.0251	-0.2245	0.64635
30	503.38	508.12	511.21	2.6095	504.11	507.82	510.91	2.156	-2.003	-0.30104	0.7355	0.8609
50	502.16	507.62	512.95	3.4065	502.76	508.46	518.53	4.755	-4.6014	0.83131	15.074	5.2231
100	506.95	511.25	517.51	3.6931	506.21	510.02	515.54	3.2045	-2.4708	-1.2313	-0.209	0.85013

Device Test: 24.66 FREQ|1MHz/SYNC1/5//34.8k//@EXT_SET_FREQ_1000kHz





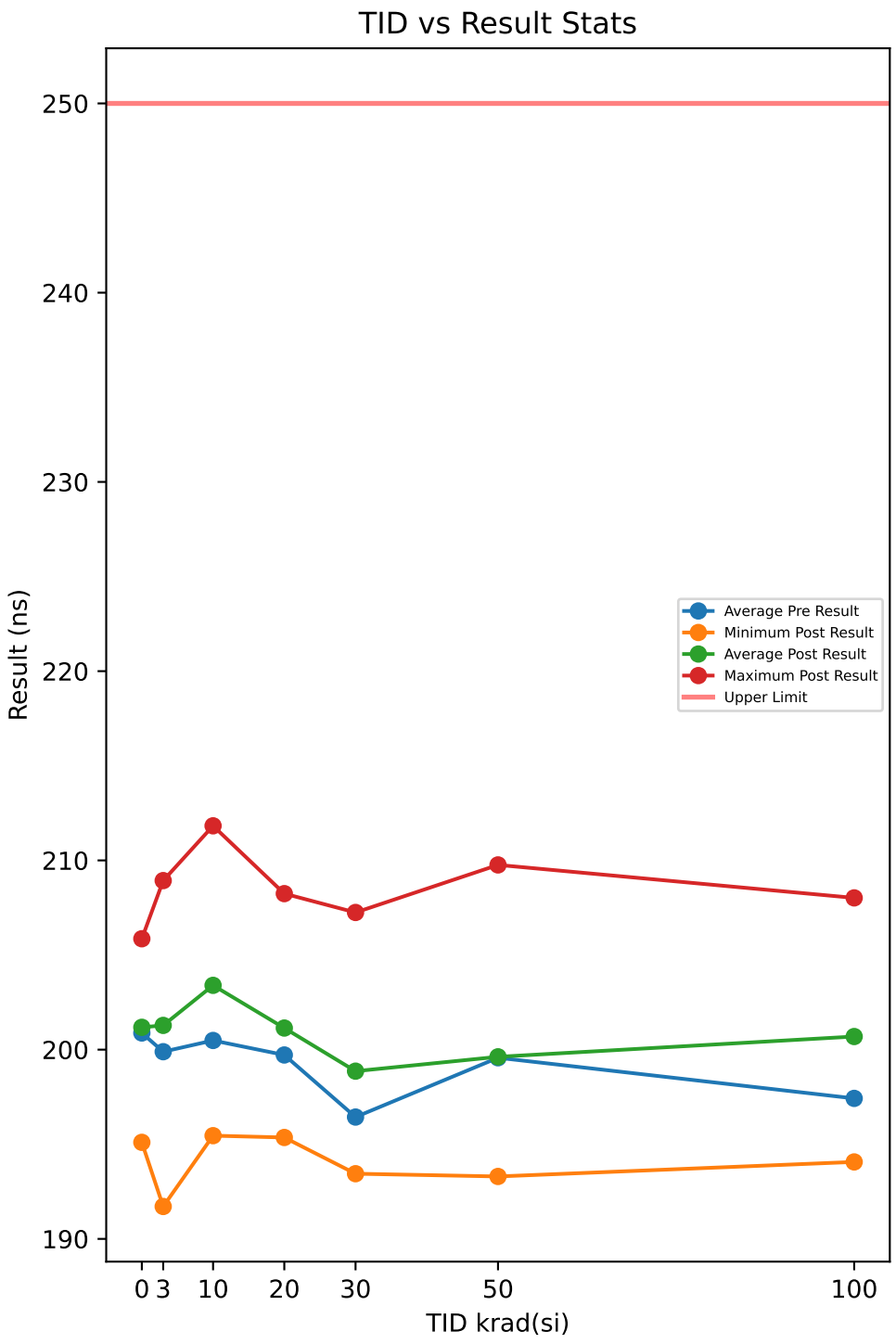
Test Results (Lower Limit = 870.0, Upper Limit = 1170.0 (kHz))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1034.6	1027.4	-7.1176
51	3	Biased	1036.6	1029.1	-7.4385
52	3	Biased	1020	1047	26.944
53	3	Biased	1044.2	1035	-9.2017
54	3	Biased	1033.4	1043.2	9.8333
55	3	Unbiased	1029.7	1040.6	10.975
56	3	Unbiased	1022.6	1034.3	11.692
57	3	Unbiased	1035.1	1037.9	2.8141
58	3	Unbiased	1031.4	1038.5	7.0337
59	3	Unbiased	1033.8	1041.1	7.3044
60	10	Biased	1031.2	1044.2	13.027
61	10	Biased	1019.1	1052.4	33.256
62	10	Biased	1029.4	1039.1	9.6306
63	10	Biased	1044.5	1037.3	-7.2175
64	10	Biased	1040	1021.4	-18.554
65	10	Unbiased	1036.6	1026.5	-10.114
66	10	Unbiased	1029.2	1023.2	-6.0084
67	10	Unbiased	1029.1	1024.1	-4.9269
68	10	Unbiased	1051.2	1010.1	-41.067
69	10	Unbiased	1031	1047.7	16.742
100	20	Biased	1029.2	1029.1	-0.1301
200	20	Biased	1035.2	1028.6	-6.5582
300	20	Biased	1077	1049.1	-27.921
400	20	Biased	1036.2	1029	-7.1183
500	20	Biased	1038	1036.3	-1.7337
600	20	Unbiased	1022.9	1030.2	7.3065
700	20	Unbiased	1041.7	1035.8	-5.9102
800	20	Unbiased	1039.5	1033.1	-6.356
900	20	Unbiased	1037.5	1034.1	-3.3508
1000	20	Unbiased	1033.7	1028.7	-4.9407
1100	30	Biased	1038.7	1051.4	12.75
1200	30	Biased	1028.9	1021.3	-7.5879
1300	30	Biased	1016.2	1012.5	-3.7361
1400	30	Biased	1035.8	1038.5	2.7273
1500	30	Biased	1033.5	1039.7	6.2033
1600	30	Unbiased	1030.4	1020.8	-9.5549
1700	30	Unbiased	1042.9	1051.8	8.9406
1800	30	Unbiased	1054.6	1044	-10.622
1900	30	Unbiased	1046.9	1041.1	-5.8749
2000	30	Unbiased	1034.7	1040.9	6.1251
2100	50	Biased-84Hr-Anneal	1028.2	1044.1	15.924
2200	50	Biased-84Hr-Anneal	1034.6	1024	-10.594
2300	50	Biased-84Hr-Anneal	1032.8	1022.9	-9.947
2400	50	Biased-84Hr-Anneal	1035.3	1043.1	7.8197
2500	50	Biased-84Hr-Anneal	1042.6	1035.1	-7.5116
2600	50	Unbiased	1033.2	1009.6	-23.586
2700	50	Unbiased	1023.3	1004.1	-19.197
2800	50	Unbiased	1022.8	974.52	-48.281
2900	50	Unbiased	1047	1042.6	-4.4221
3000	50	Unbiased	1036.6	1051.1	14.506
4000	100	Biased-168Hr-Anneal	1031.3	984.9	-46.409
4100	100	Biased-168Hr-Anneal	1044.9	1053.9	8.9553
4200	100	Biased-168Hr-Anneal	1038.9	1041.3	2.4271
4300	100	Biased-168Hr-Anneal	1032.8	1036.2	3.4182
4400	100	Biased-168Hr-Anneal	1024.5	991.85	-32.644
4500	100	Unbiased-168Hr-Anneal	1028.2	1004.2	-23.969
4600	100	Unbiased-168Hr-Anneal	1050.6	1058.1	7.5133
4700	100	Unbiased-168Hr-Anneal	1061.2	1060.8	-0.4935
4800	100	Unbiased-168Hr-Anneal	1036.8	988.01	-48.767
4900	100	Unbiased-168Hr-Anneal	1041.7	999.84	-41.838
9300	0	CORRELATION	1033.5	1030.3	-3.197
9400	0	CORRELATION	1035.1	1036.4	1.2592
9500	0	CORRELATION	1029.1	1030	0.8937
9600	0	CORRELATION	1026.2	1027.3	1.0289
9700	0	CORRELATION	1021.9	1023.2	1.3065

Test Statistics (kHz)

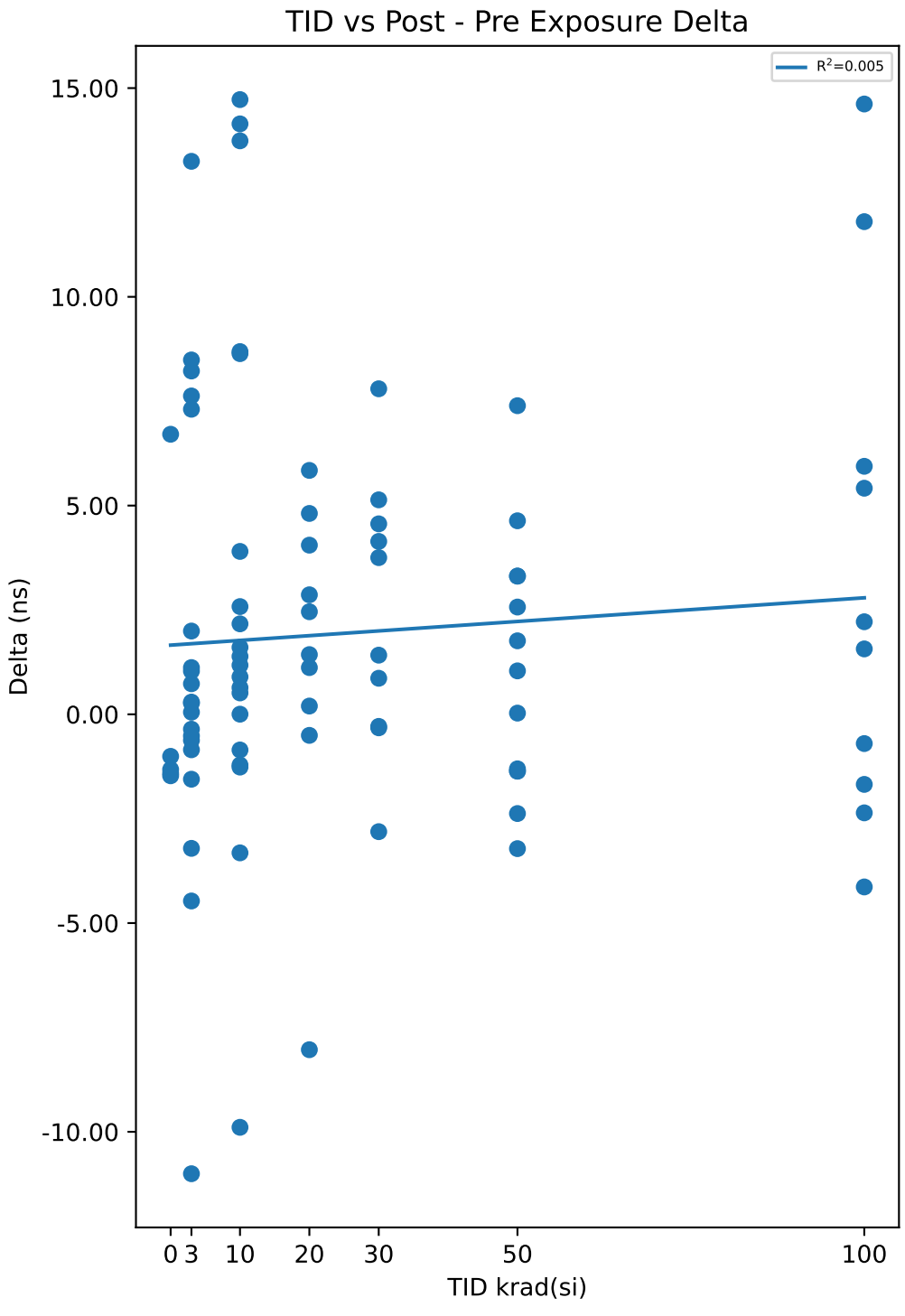
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1021.9	1029.2	1035.1	5.3752	1023.2	1029.4	1036.4	4.8197	-3.197	0.25826	1.3065	1.9389
3	1020	1032.1	1044.2	6.8966	1027.4	1037.4	1047	6.1017	-9.2017	5.2838	26.944	11.066
10	1019.1	1034.1	1051.2	9.1655	1010.1	1032.6	1052.4	13.514	-41.067	-1.5233	33.256	20.739
20	1022.9	1039.1	1077	14.373	1028.6	1033.4	1049.1	6.2569	-27.921	-5.6712	7.3065	8.9381
30	1016.2	1036.3	1054.6	10.536	1012.5	1036.2	1051.8	13.415	-10.622	-0.06287	12.75	8.4068
50	1022.8	1033.6	1047	7.6555	974.52	1025.1	1051.1	23.595	-48.281	-8.5288	15.924	19.266
100	1024.5	1039.1	1061.2	11.06	984.9	1021.9	1060.8	30.985	-48.767	-17.181	8.9553	23.864

Device Test: 24.68 TIMING|MINON/SW/5//511k//@ON_TIME_MIN_5V



Test Results (Upper Limit = 250.0 (ns))

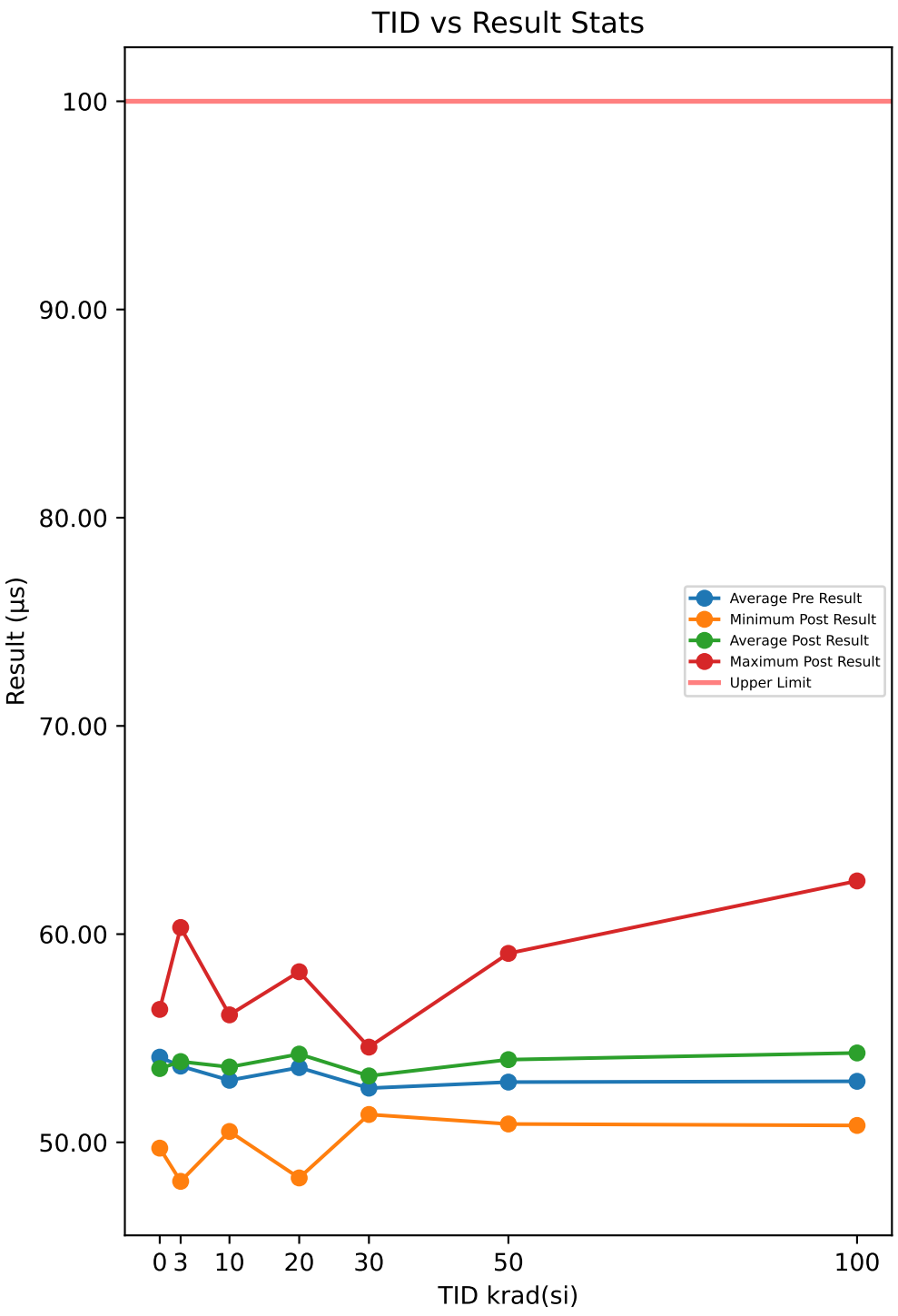
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	192.65	200.28	7.6258
51	3	Biased	200.07	196.86	-3.2108
52	3	Biased	202.72	191.71	-11.004
53	3	Biased	197.98	198.25	0.2674
54	3	Biased	199.35	194.87	-4.4712
55	3	Unbiased	199.26	207.48	8.2239
56	3	Unbiased	204.9	204.05	-0.8492
57	3	Unbiased	192.13	205.38	13.246
58	3	Unbiased	196.51	204.99	8.4883
59	3	Unbiased	201.62	208.93	7.3076
60	10	Biased	197.06	205.7	8.6392
61	10	Biased	199.12	200.01	0.8972
62	10	Biased	198.09	211.83	13.737
63	10	Biased	208.26	198.36	-9.8926
64	10	Biased	203.78	202.51	-1.264
65	10	Unbiased	192.69	206.83	14.143
66	10	Unbiased	197.21	201.11	3.9021
67	10	Unbiased	199.23	207.92	8.6887
68	10	Unbiased	189.51	204.24	14.725
69	10	Unbiased	194.07	195.45	1.3873
100	20	Biased	205.75	197.72	-8.0335
200	20	Biased	193.51	198.32	4.8117
300	20	Biased	196.22	195.72	-0.5043
400	20	Biased	198.31	199.43	1.1194
500	20	Biased	206.1	207.53	1.4304
600	20	Unbiased	197.62	203.46	5.8424
700	20	Unbiased	208.05	208.24	0.198
800	20	Unbiased	194.06	198.11	4.0522
900	20	Unbiased	204.67	207.53	2.8631
1000	20	Unbiased	192.9	195.36	2.4572
1100	30	Biased	192.21	193.62	1.4171
1200	30	Biased	196.39	200.53	4.1414
1300	30	Biased	196.25	193.44	-2.8107
1400	30	Biased	194.5	199.06	4.5625
1500	30	Biased	199.6	199.31	-0.2893
1600	30	Unbiased	203.49	207.25	3.7532
1700	30	Unbiased	196.32	197.19	0.8636
1800	30	Unbiased	192.07	199.87	7.7974
1900	30	Unbiased	197.81	197.49	-0.3233
2000	30	Unbiased	195.72	200.86	5.1374
2100	50	Biased-84Hr-Anneal	194.98	198.29	3.3107
2200	50	Biased-84Hr-Anneal	195.9	194.59	-1.3058
2300	50	Biased-84Hr-Anneal	196.52	193.3	-3.2171
2400	50	Biased-84Hr-Anneal	203.3	200.93	-2.3766
2500	50	Biased-84Hr-Anneal	201.87	201.89	0.029
2600	50	Unbiased	197.91	205.31	7.3925
2700	50	Unbiased	207.19	209.76	2.5694
2800	50	Unbiased	199.72	201.48	1.7606
2900	50	Unbiased	201.55	202.59	1.0406
3000	50	Unbiased	196.77	201.4	4.6357
4000	100	Biased-168Hr-Anneal	207.86	203.73	-4.1348
4100	100	Biased-168Hr-Anneal	191.42	196.84	5.4159
4200	100	Biased-168Hr-Anneal	206.55	204.87	-1.6785
4300	100	Biased-168Hr-Anneal	188.13	194.07	5.9407
4400	100	Biased-168Hr-Anneal	201.09	198.73	-2.3601
4500	100	Unbiased-168Hr-Anneal	199.02	200.58	1.5668
4600	100	Unbiased-168Hr-Anneal	182.57	197.19	14.619
4700	100	Unbiased-168Hr-Anneal	205.8	208.02	2.2172
4800	100	Unbiased-168Hr-Anneal	200.55	199.85	-0.7006
4900	100	Unbiased-168Hr-Anneal	191.25	203.05	11.801
9300	0	CORRELATION	199.15	205.86	6.7082
9400	0	CORRELATION	205.44	204.03	-1.4121
9500	0	CORRELATION	203.7	202.38	-1.3198
9600	0	CORRELATION	200.01	198.54	-1.472
9700	0	CORRELATION	196.11	195.1	-1.0066

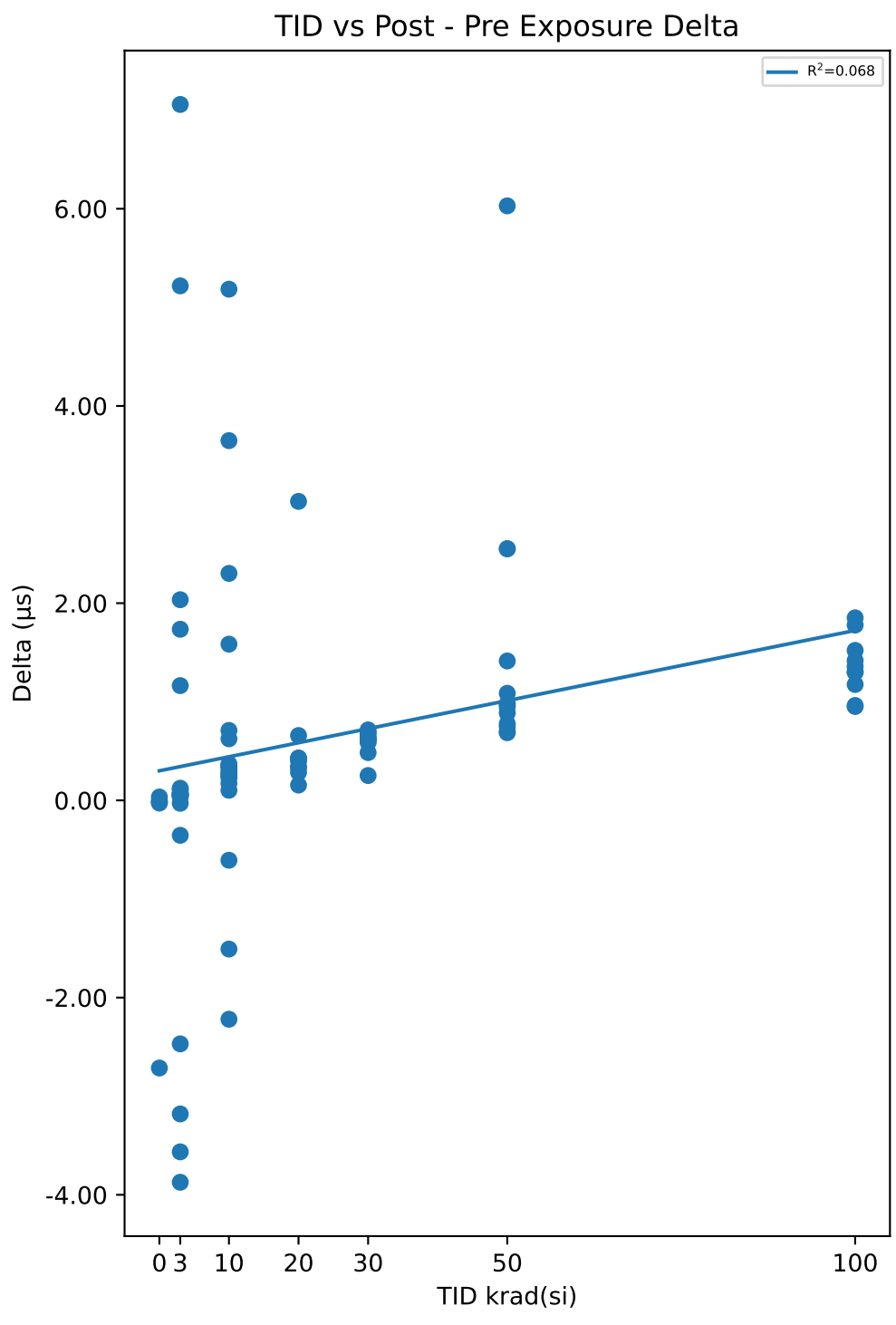


Test Statistics (ns)

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	196.11	200.88	205.44	3.716	195.1	201.18	205.86	4.3409	-1.472	0.29954	6.7082	3.587
3	192.13	198.72	204.9	4.0935	191.71	201.28	208.93	5.7502	-11.004	2.5624	13.246	7.5515
10	189.51	197.9	208.26	5.3593	195.45	203.4	211.83	4.8902	-9.8926	5.4963	14.725	7.9652
20	192.9	199.72	208.05	5.837	195.36	201.14	208.24	5.0792	-8.0335	1.4237	5.8424	3.8845
30	192.07	196.44	203.49	3.3828	193.44	198.86	207.25	3.9418	-2.8107	2.4249	7.7974	3.1848
50	194.98	199.57	207.19	3.8831	193.3	200.95	209.76	4.7924	-3.2171	1.3839	7.3925	3.2734
100	182.57	197.42	207.86	8.6251	194.07	200.69	208.02	4.2363	-4.1348	3.2686	14.619	6.1833

Device Test: 24.69 TIMING|DELAY/EN/5//511k//@T_EN_DELAY





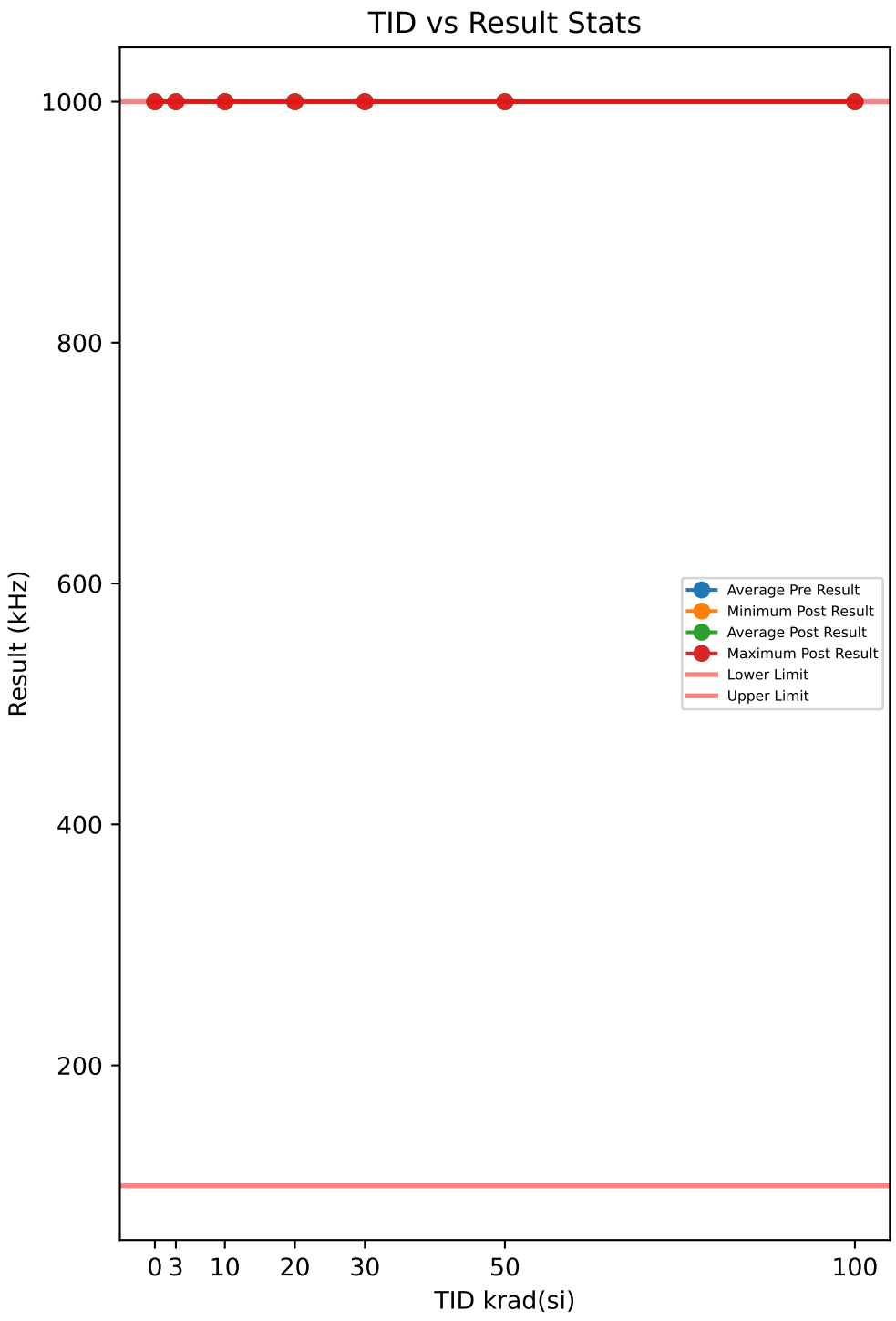
Test Results (Upper Limit = 100.0 (µs))

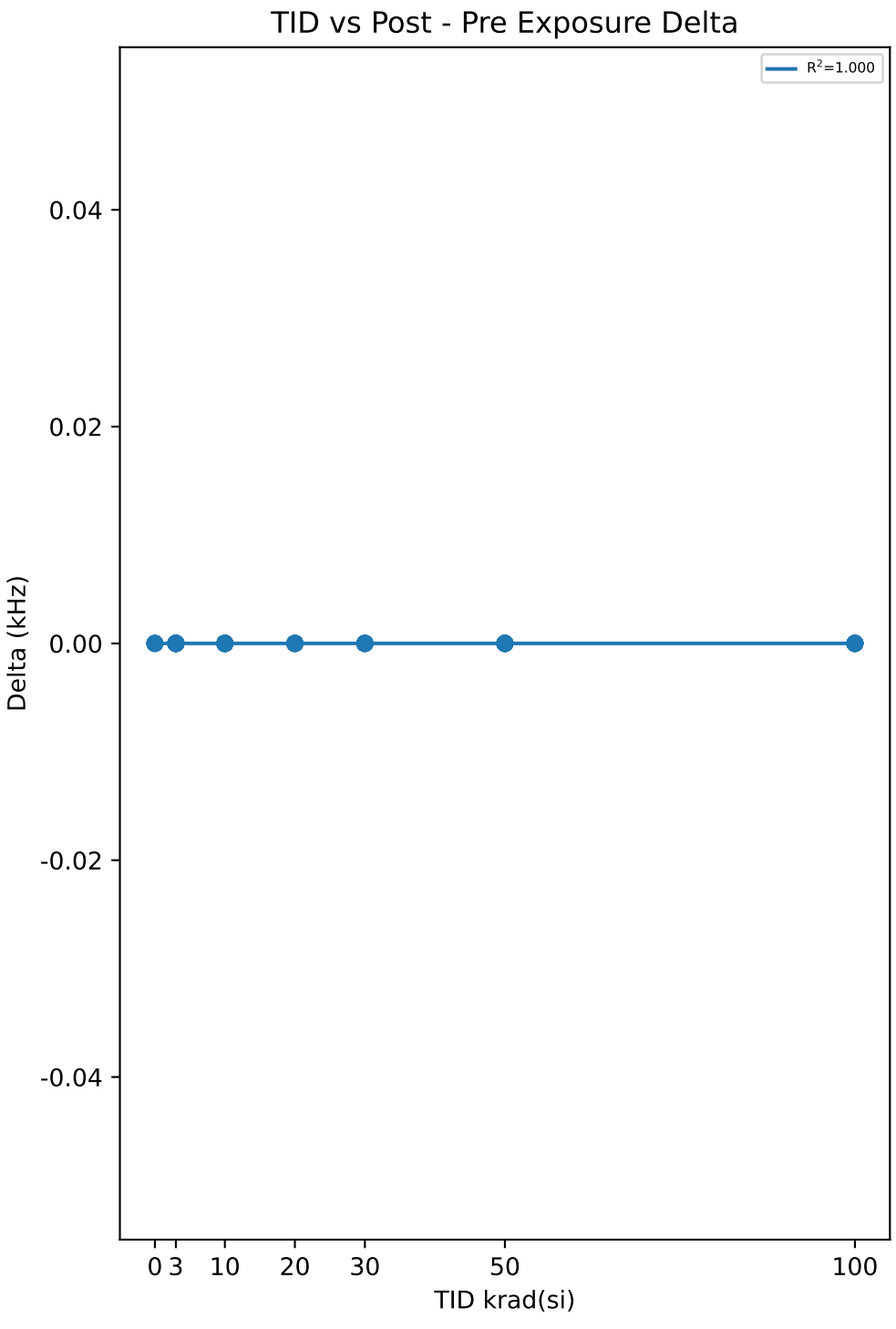
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	55.455	57.19	1.7354
51	3	Biased	55.58	51.707	-3.8727
52	3	Biased	52.86	49.68	-3.1799
53	3	Biased	53.752	53.398	-0.3543
54	3	Biased	50.302	55.52	5.2179
55	3	Unbiased	56.152	58.187	2.0349
56	3	Unbiased	52.244	53.408	1.1637
57	3	Unbiased	51.691	48.127	-3.5644
58	3	Unbiased	53.728	51.258	-2.4695
59	3	Unbiased	53.261	60.319	7.0575
60	10	Biased	54.564	55.189	0.6247
61	10	Biased	51.435	55.084	3.6484
62	10	Biased	54.904	55.614	0.7094
63	10	Biased	54.538	56.123	1.5841
64	10	Biased	53.353	51.845	-1.508
65	10	Unbiased	52.742	50.522	-2.2196
66	10	Unbiased	54.38	53.773	-0.6074
67	10	Unbiased	48.591	53.775	5.1842
68	10	Unbiased	51.898	52.176	0.278
69	10	Unbiased	49.778	52.08	2.302
100	20	Biased	49.796	52.828	3.032
200	20	Biased	47.949	48.291	0.342
300	20	Biased	56.467	56.623	0.1552
400	20	Biased	56.707	57.136	0.4295
500	20	Biased	50.566	50.964	0.3983
600	20	Unbiased	57.767	58.194	0.4267
700	20	Unbiased	54.737	55.066	0.3298
800	20	Unbiased	54.549	55.206	0.6575
900	20	Unbiased	51.532	51.957	0.4242
1000	20	Unbiased	55.841	56.125	0.2835
1100	30	Biased	51.72	52.409	0.6886
1200	30	Biased	52.794	53.428	0.6336
1300	30	Biased	53.754	54.382	0.6279
1400	30	Biased	53.803	54.055	0.2519
1500	30	Biased	53.967	54.573	0.6059
1600	30	Unbiased	53.603	54.088	0.4846
1700	30	Unbiased	50.721	51.338	0.6167
1800	30	Unbiased	52.595	53.31	0.7147
1900	30	Unbiased	50.805	51.474	0.6686
2000	30	Unbiased	52.268	52.856	0.5873
2100	50	Biased-84Hr-Anneal	50.789	53.341	2.5516
2200	50	Biased-84Hr-Anneal	53.046	59.075	6.0294
2300	50	Biased-84Hr-Anneal	54.328	55.106	0.7774
2400	50	Biased-84Hr-Anneal	53.161	53.857	0.6957
2500	50	Biased-84Hr-Anneal	52.459	53.206	0.7478
2600	50	Unbiased	50.195	50.881	0.6862
2700	50	Unbiased	54.974	56.388	1.4137
2800	50	Unbiased	52.727	53.613	0.8859
2900	50	Unbiased	54.032	54.978	0.9468
3000	50	Unbiased	53.228	54.314	1.086
4000	100	Biased-168Hr-Anneal	53.369	54.788	1.4186
4100	100	Biased-168Hr-Anneal	51.57	52.532	0.9622
4200	100	Biased-168Hr-Anneal	52.799	53.751	0.952
4300	100	Biased-168Hr-Anneal	60.703	62.555	1.8514
4400	100	Biased-168Hr-Anneal	50.266	51.565	1.2987
4500	100	Unbiased-168Hr-Anneal	53.757	55.059	1.303
4600	100	Unbiased-168Hr-Anneal	55.339	57.116	1.7778
4700	100	Unbiased-168Hr-Anneal	52.114	53.635	1.521
4800	100	Unbiased-168Hr-Anneal	49.636	50.812	1.1753
4900	100	Unbiased-168Hr-Anneal	49.759	51.117	1.3579
9300	0	CORRELATION	52.436	49.722	-2.7142
9400	0	CORRELATION	53.977	54.012	0.0343
9500	0	CORRELATION	54.976	54.949	-0.0274
9600	0	CORRELATION	56.39	56.385	-0.0058
9700	0	CORRELATION	52.674	52.656	-0.0182

Test Statistics (µs)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	52.436	54.091	56.39	1.6455	49.722	53.545	56.385	2.5328	-2.7142	-0.54626	0.0343	1.2121
3	50.302	53.502	56.152	1.851	48.127	53.879	60.319	3.8936	-3.8727	0.37686	7.0575	3.7736
10	48.591	52.618	54.904	2.1747	50.522	53.618	56.123	1.8885	-2.2196	0.99958	5.1842	2.2741
20	47.949	53.591	57.767	3.3722	48.291	54.239	58.194	3.1305	0.1552	0.64787	3.032	0.84743
30	50.721	52.603	53.967	1.2169	51.338	53.191	54.573	1.1574	0.2519	0.58798	0.7147	0.13381
50	50.195	52.894	54.974	1.4838	50.881	54.476	59.075	2.1714	0.6862	1.582	6.0294	1.6604
100	49.636	52.931	60.703	3.2937	50.812	54.293	62.555	3.5046	0.952	1.3618	1.8514	0.30022

Device Test: 24.7 FREQ|1000kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE





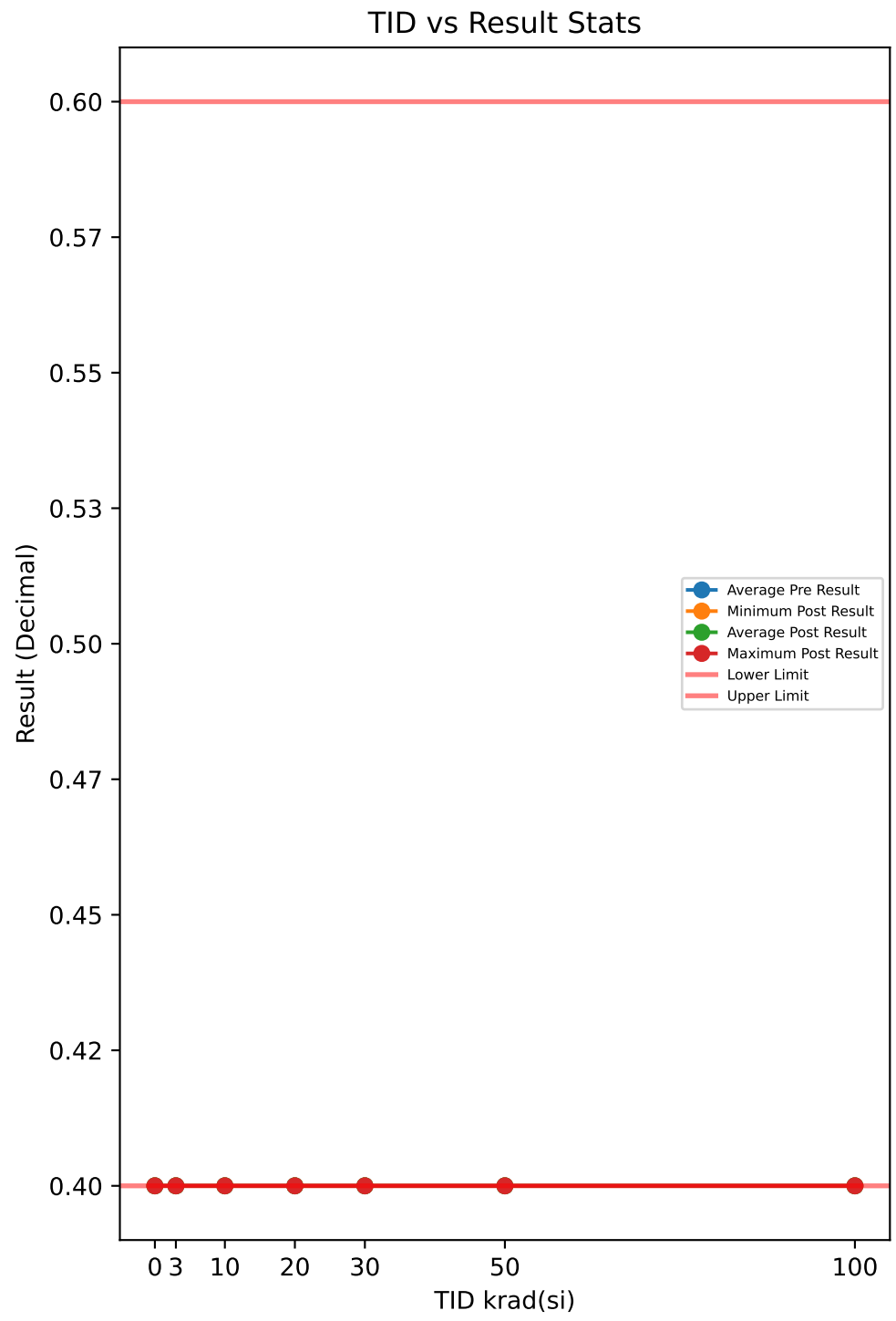
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

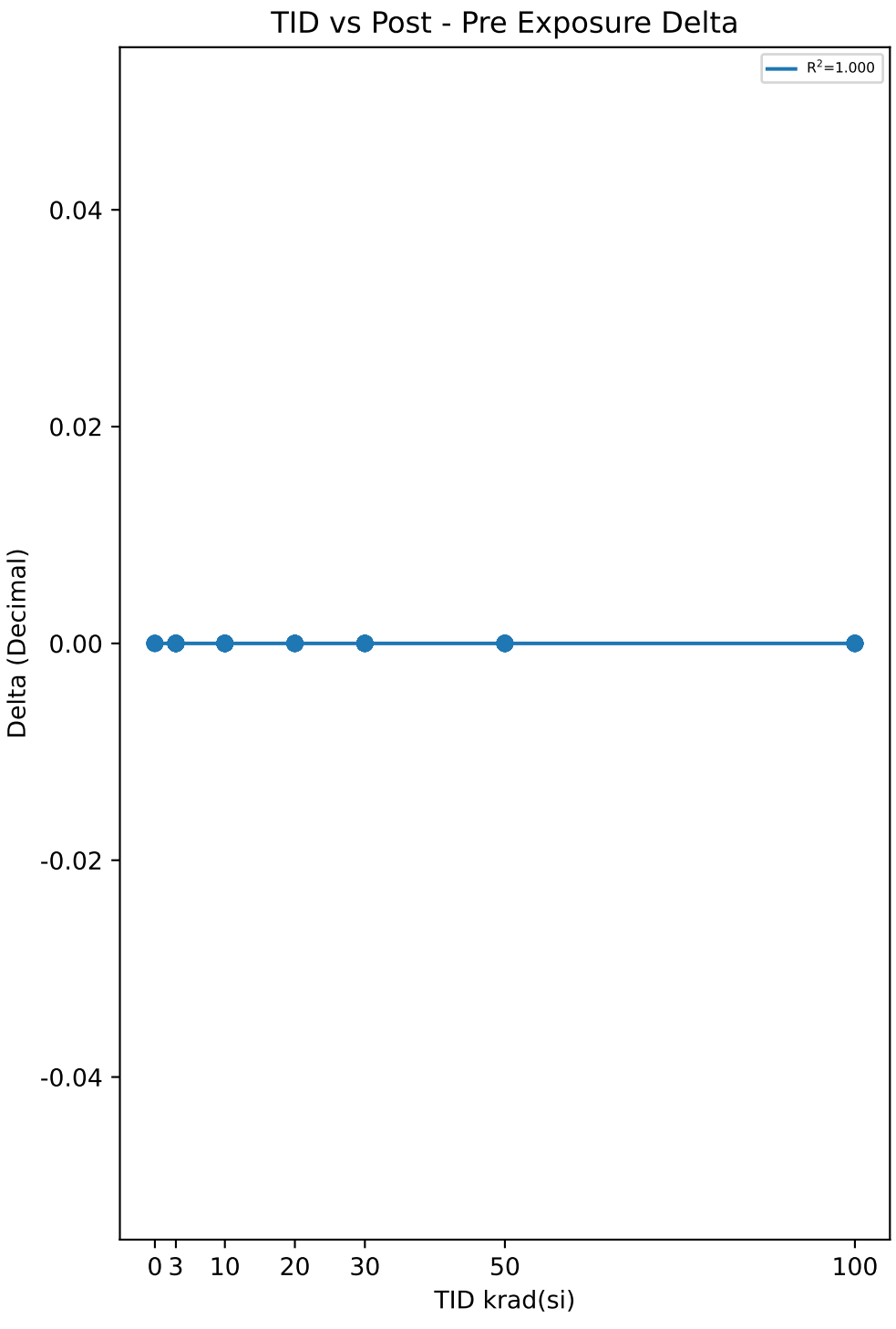
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1000	1000	0
51	3	Biased	1000	1000	0
52	3	Biased	1000	1000	0
53	3	Biased	1000	1000	0
54	3	Biased	1000	1000	0
55	3	Unbiased	1000	1000	0
56	3	Unbiased	1000	1000	0
57	3	Unbiased	1000	1000	0
58	3	Unbiased	1000	1000	0
59	3	Unbiased	1000	1000	0
60	10	Biased	1000	1000	0
61	10	Biased	1000	1000	0
62	10	Biased	1000	1000	0
63	10	Biased	1000	1000	0
64	10	Biased	1000	1000	0
65	10	Unbiased	1000	1000	0
66	10	Unbiased	1000	1000	0
67	10	Unbiased	1000	1000	0
68	10	Unbiased	1000	1000	0
69	10	Unbiased	1000	1000	0
100	20	Biased	1000	1000	0
200	20	Biased	1000	1000	0
300	20	Biased	1000	1000	0
400	20	Biased	1000	1000	0
500	20	Biased	1000	1000	0
600	20	Unbiased	1000	1000	0
700	20	Unbiased	1000	1000	0
800	20	Unbiased	1000	1000	0
900	20	Unbiased	1000	1000	0
1000	20	Unbiased	1000	1000	0
1100	30	Biased	1000	1000	0
1200	30	Biased	1000	1000	0
1300	30	Biased	1000	1000	0
1400	30	Biased	1000	1000	0
1500	30	Biased	1000	1000	0
1600	30	Unbiased	1000	1000	0
1700	30	Unbiased	1000	1000	0
1800	30	Unbiased	1000	1000	0
1900	30	Unbiased	1000	1000	0
2000	30	Unbiased	1000	1000	0
2100	50	Biased-84Hr-Anneal	1000	1000	0
2200	50	Biased-84Hr-Anneal	1000	1000	0
2300	50	Biased-84Hr-Anneal	1000	1000	0
2400	50	Biased-84Hr-Anneal	1000	1000	0
2500	50	Biased-84Hr-Anneal	1000	1000	0
2600	50	Unbiased	1000	1000	0
2700	50	Unbiased	1000	1000	0
2800	50	Unbiased	1000	1000	0
2900	50	Unbiased	1000	1000	0
3000	50	Unbiased	1000	1000	0
4000	100	Biased-168Hr-Anneal	1000	1000	0
4100	100	Biased-168Hr-Anneal	1000	1000	0
4200	100	Biased-168Hr-Anneal	1000	1000	0
4300	100	Biased-168Hr-Anneal	1000	1000	0
4400	100	Biased-168Hr-Anneal	1000	1000	0
4500	100	Unbiased-168Hr-Anneal	1000	1000	0
4600	100	Unbiased-168Hr-Anneal	1000	1000	0
4700	100	Unbiased-168Hr-Anneal	1000	1000	0
4800	100	Unbiased-168Hr-Anneal	1000	1000	0
4900	100	Unbiased-168Hr-Anneal	1000	1000	0
9300	0	CORRELATION	1000	1000	0
9400	0	CORRELATION	1000	1000	0
9500	0	CORRELATION	1000	1000	0
9600	0	CORRELATION	1000	1000	0
9700	0	CORRELATION	1000	1000	0

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	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
3	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
10	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
100	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

Device Test: 24.8 DUTYCYCLE|GNG_40dml/SYNC1/4.5//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE





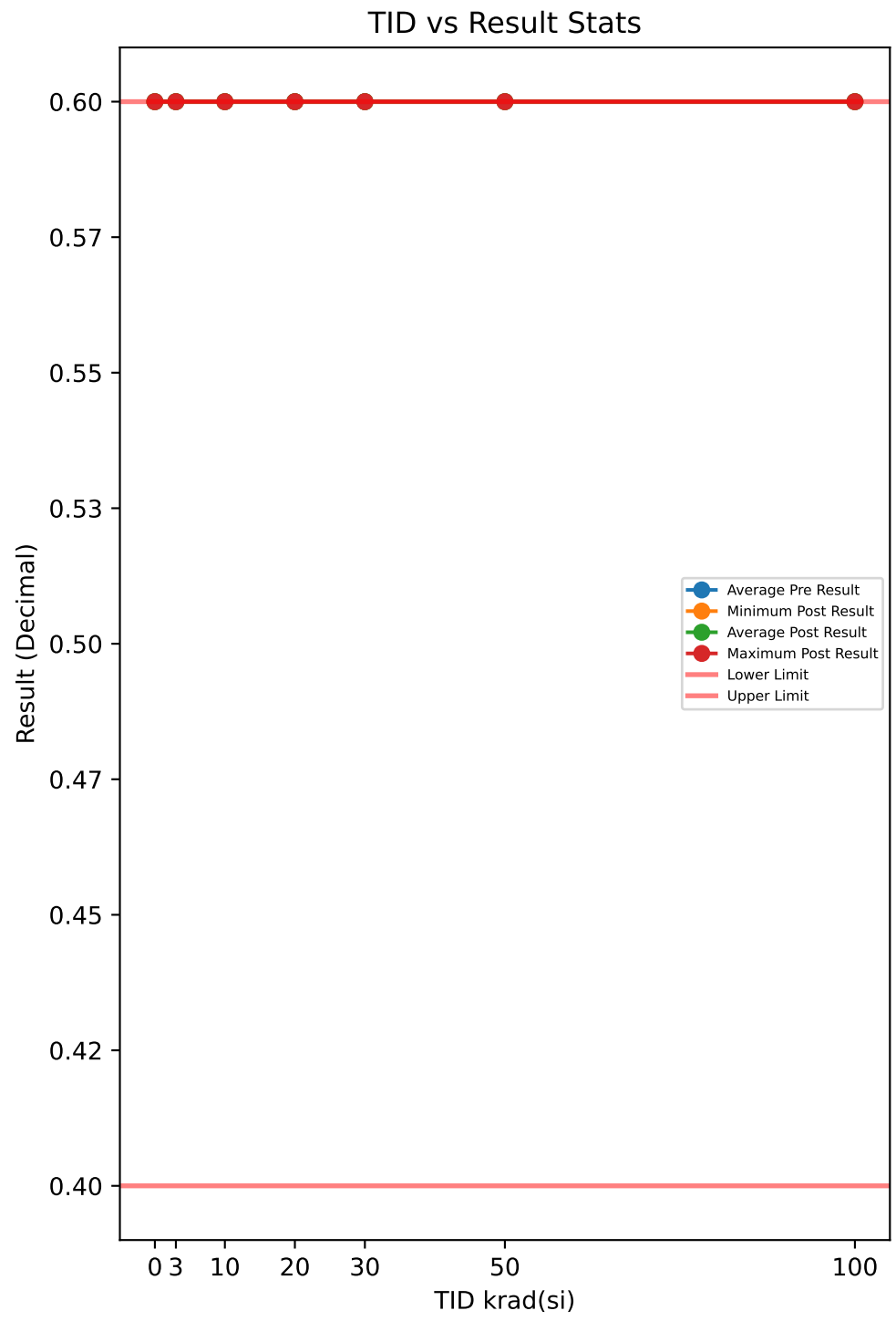
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

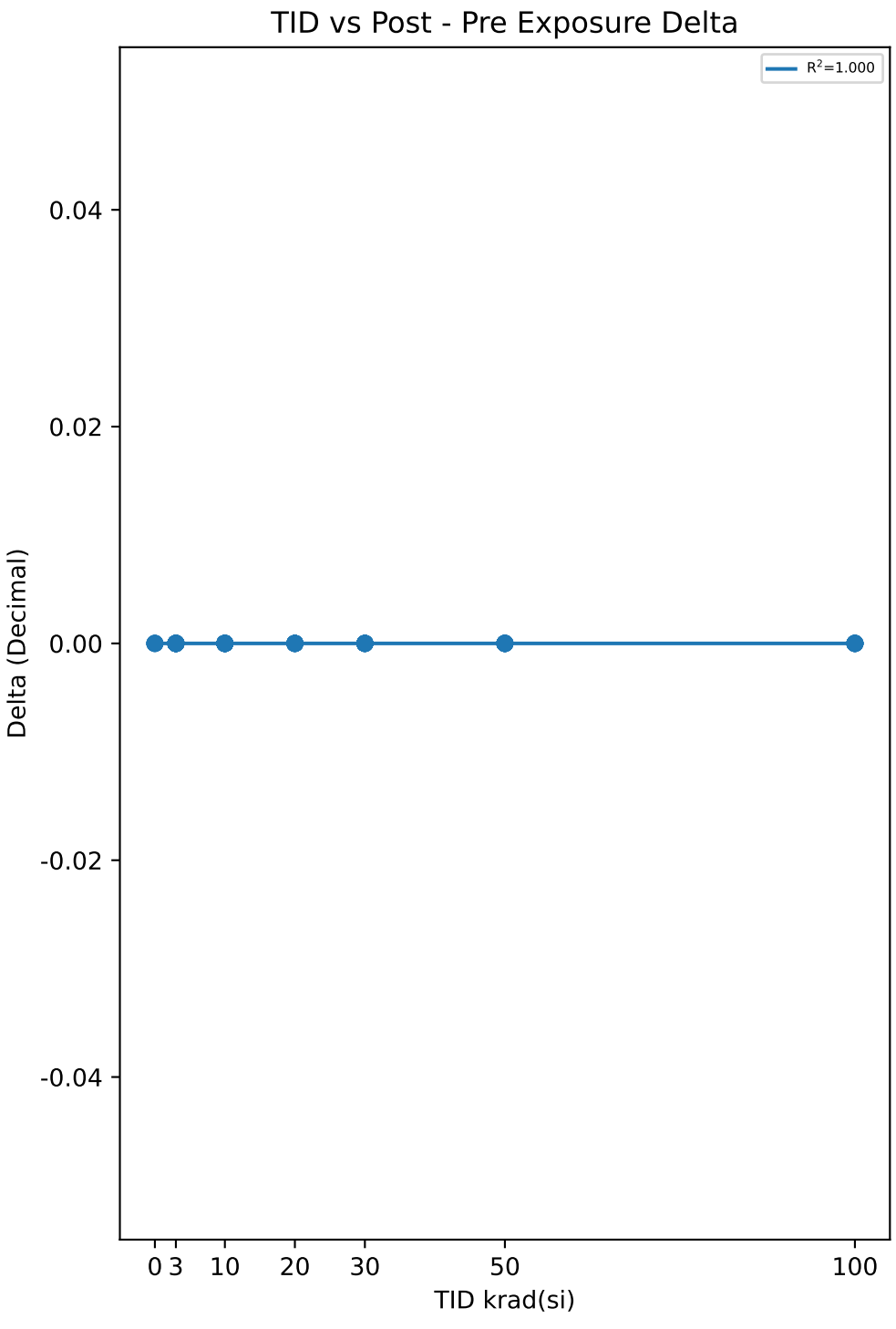
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.4	0.4	0
51	3	Biased	0.4	0.4	0
52	3	Biased	0.4	0.4	0
53	3	Biased	0.4	0.4	0
54	3	Biased	0.4	0.4	0
55	3	Unbiased	0.4	0.4	0
56	3	Unbiased	0.4	0.4	0
57	3	Unbiased	0.4	0.4	0
58	3	Unbiased	0.4	0.4	0
59	3	Unbiased	0.4	0.4	0
60	10	Biased	0.4	0.4	0
61	10	Biased	0.4	0.4	0
62	10	Biased	0.4	0.4	0
63	10	Biased	0.4	0.4	0
64	10	Biased	0.4	0.4	0
65	10	Unbiased	0.4	0.4	0
66	10	Unbiased	0.4	0.4	0
67	10	Unbiased	0.4	0.4	0
68	10	Unbiased	0.4	0.4	0
69	10	Unbiased	0.4	0.4	0
100	20	Biased	0.4	0.4	0
200	20	Biased	0.4	0.4	0
300	20	Biased	0.4	0.4	0
400	20	Biased	0.4	0.4	0
500	20	Biased	0.4	0.4	0
600	20	Unbiased	0.4	0.4	0
700	20	Unbiased	0.4	0.4	0
800	20	Unbiased	0.4	0.4	0
900	20	Unbiased	0.4	0.4	0
1000	20	Unbiased	0.4	0.4	0
1100	30	Biased	0.4	0.4	0
1200	30	Biased	0.4	0.4	0
1300	30	Biased	0.4	0.4	0
1400	30	Biased	0.4	0.4	0
1500	30	Biased	0.4	0.4	0
1600	30	Unbiased	0.4	0.4	0
1700	30	Unbiased	0.4	0.4	0
1800	30	Unbiased	0.4	0.4	0
1900	30	Unbiased	0.4	0.4	0
2000	30	Unbiased	0.4	0.4	0
2100	50	Biased-84Hr-Anneal	0.4	0.4	0
2200	50	Biased-84Hr-Anneal	0.4	0.4	0
2300	50	Biased-84Hr-Anneal	0.4	0.4	0
2400	50	Biased-84Hr-Anneal	0.4	0.4	0
2500	50	Biased-84Hr-Anneal	0.4	0.4	0
2600	50	Unbiased	0.4	0.4	0
2700	50	Unbiased	0.4	0.4	0
2800	50	Unbiased	0.4	0.4	0
2900	50	Unbiased	0.4	0.4	0
3000	50	Unbiased	0.4	0.4	0
4000	100	Biased-168Hr-Anneal	0.4	0.4	0
4100	100	Biased-168Hr-Anneal	0.4	0.4	0
4200	100	Biased-168Hr-Anneal	0.4	0.4	0
4300	100	Biased-168Hr-Anneal	0.4	0.4	0
4400	100	Biased-168Hr-Anneal	0.4	0.4	0
4500	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4600	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4700	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4800	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4900	100	Unbiased-168Hr-Anneal	0.4	0.4	0
9300	0	CORRELATION	0.4	0.4	0
9400	0	CORRELATION	0.4	0.4	0
9500	0	CORRELATION	0.4	0.4	0
9600	0	CORRELATION	0.4	0.4	0
9700	0	CORRELATION	0.4	0.4	0

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
3	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
10	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
100	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

Device Test: 24.9 DUTYCYCLE|GNG_60dml/SYNC1/4.5//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE





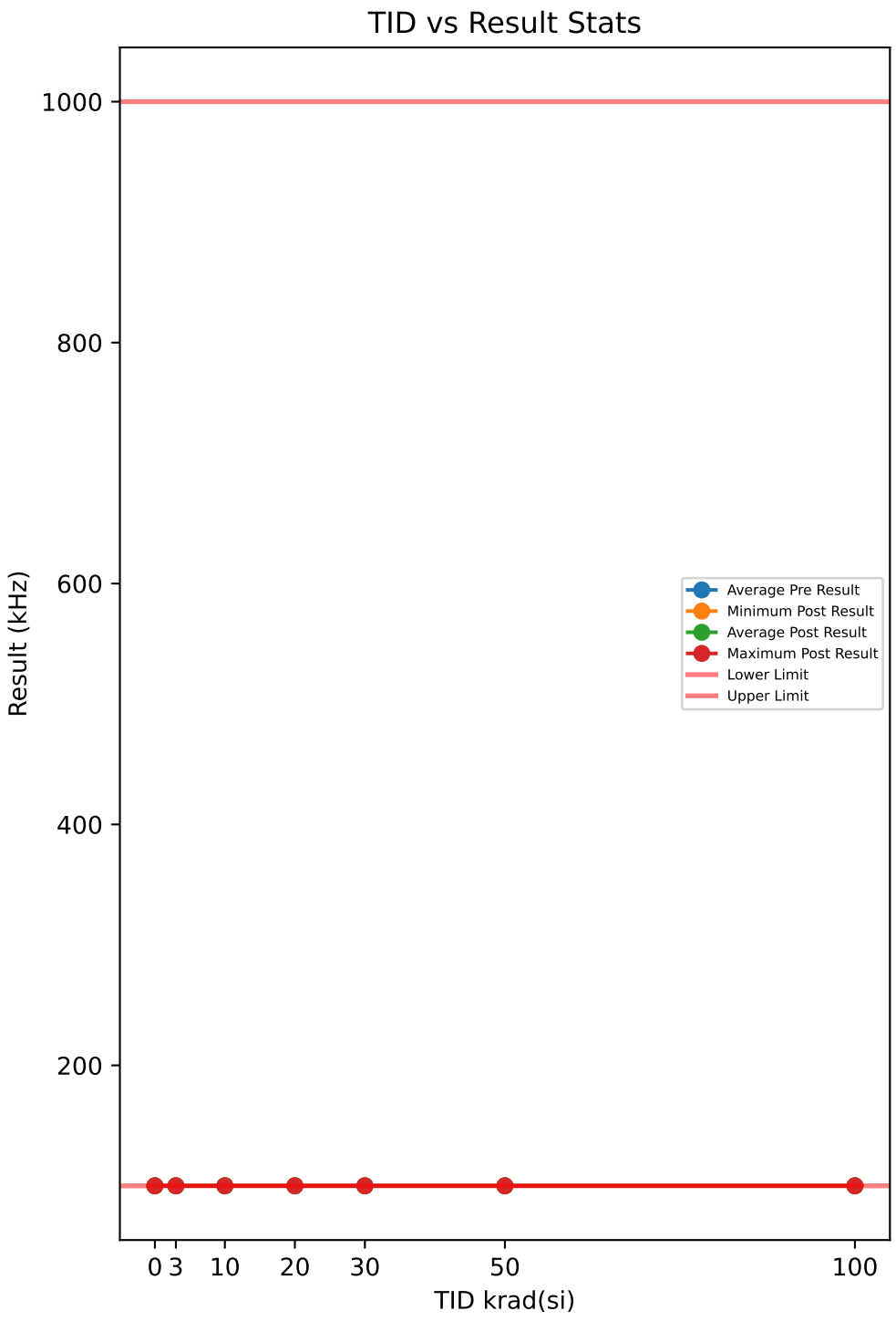
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

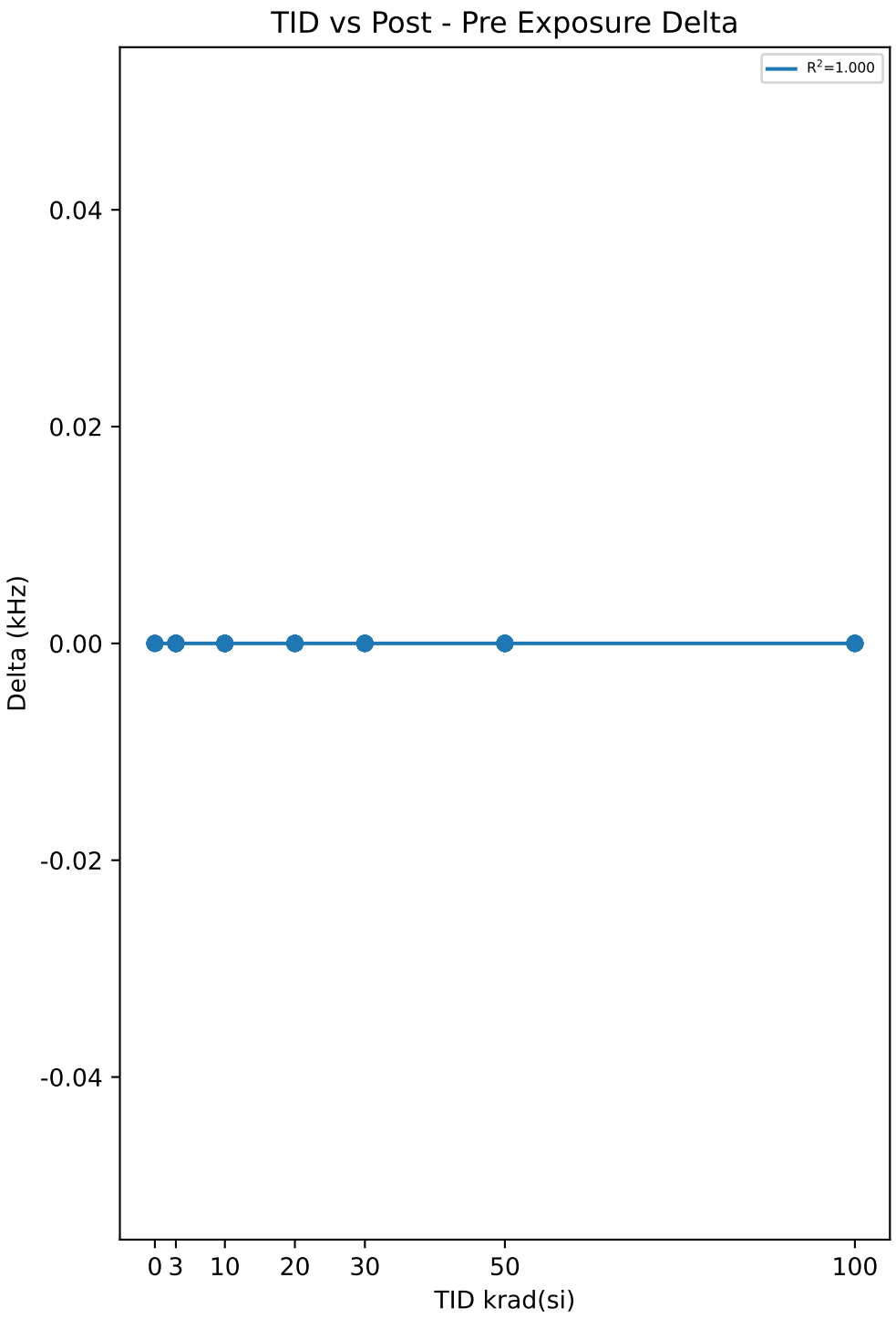
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6	0.6	0
51	3	Biased	0.6	0.6	0
52	3	Biased	0.6	0.6	0
53	3	Biased	0.6	0.6	0
54	3	Biased	0.6	0.6	0
55	3	Unbiased	0.6	0.6	0
56	3	Unbiased	0.6	0.6	0
57	3	Unbiased	0.6	0.6	0
58	3	Unbiased	0.6	0.6	0
59	3	Unbiased	0.6	0.6	0
60	10	Biased	0.6	0.6	0
61	10	Biased	0.6	0.6	0
62	10	Biased	0.6	0.6	0
63	10	Biased	0.6	0.6	0
64	10	Biased	0.6	0.6	0
65	10	Unbiased	0.6	0.6	0
66	10	Unbiased	0.6	0.6	0
67	10	Unbiased	0.6	0.6	0
68	10	Unbiased	0.6	0.6	0
69	10	Unbiased	0.6	0.6	0
100	20	Biased	0.6	0.6	0
200	20	Biased	0.6	0.6	0
300	20	Biased	0.6	0.6	0
400	20	Biased	0.6	0.6	0
500	20	Biased	0.6	0.6	0
600	20	Unbiased	0.6	0.6	0
700	20	Unbiased	0.6	0.6	0
800	20	Unbiased	0.6	0.6	0
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.6	0.6	0
1100	30	Biased	0.6	0.6	0
1200	30	Biased	0.6	0.6	0
1300	30	Biased	0.6	0.6	0
1400	30	Biased	0.6	0.6	0
1500	30	Biased	0.6	0.6	0
1600	30	Unbiased	0.6	0.6	0
1700	30	Unbiased	0.6	0.6	0
1800	30	Unbiased	0.6	0.6	0
1900	30	Unbiased	0.6	0.6	0
2000	30	Unbiased	0.6	0.6	0
2100	50	Biased-84Hr-Anneal	0.6	0.6	0
2200	50	Biased-84Hr-Anneal	0.6	0.6	0
2300	50	Biased-84Hr-Anneal	0.6	0.6	0
2400	50	Biased-84Hr-Anneal	0.6	0.6	0
2500	50	Biased-84Hr-Anneal	0.6	0.6	0
2600	50	Unbiased	0.6	0.6	0
2700	50	Unbiased	0.6	0.6	0
2800	50	Unbiased	0.6	0.6	0
2900	50	Unbiased	0.6	0.6	0
3000	50	Unbiased	0.6	0.6	0
4000	100	Biased-168Hr-Anneal	0.6	0.6	0
4100	100	Biased-168Hr-Anneal	0.6	0.6	0
4200	100	Biased-168Hr-Anneal	0.6	0.6	0
4300	100	Biased-168Hr-Anneal	0.6	0.6	0
4400	100	Biased-168Hr-Anneal	0.6	0.6	0
4500	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4600	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4700	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4800	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4900	100	Unbiased-168Hr-Anneal	0.6	0.6	0
9300	0	CORRELATION	0.6	0.6	0
9400	0	CORRELATION	0.6	0.6	0
9500	0	CORRELATION	0.6	0.6	0
9600	0	CORRELATION	0.6	0.6	0
9700	0	CORRELATION	0.6	0.6	0

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
3	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
10	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
100	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

Device Test: 24.90 FREQ|100kHz/SYNC1/12//OPEN//@SYNC_FREQ_RANGE





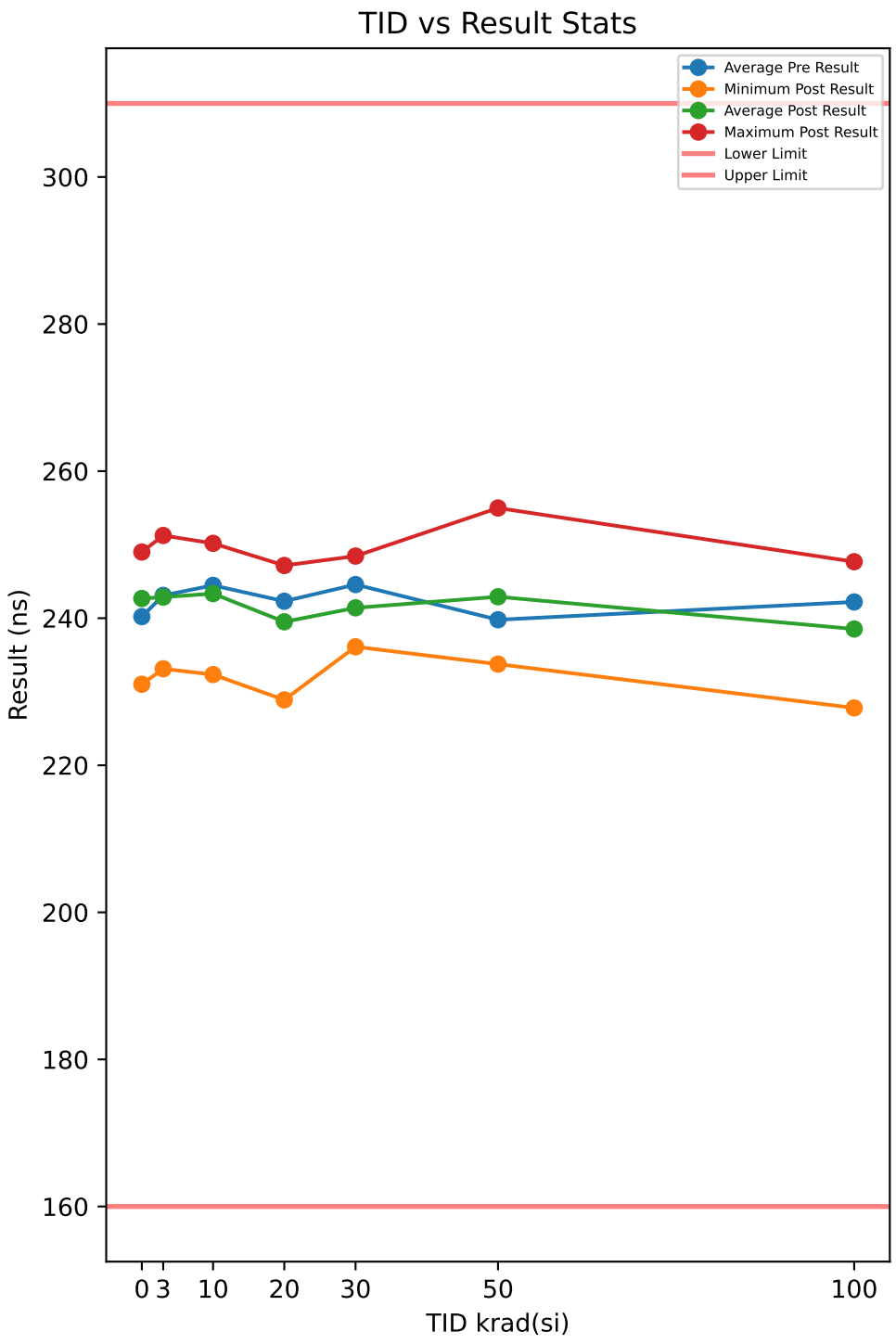
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

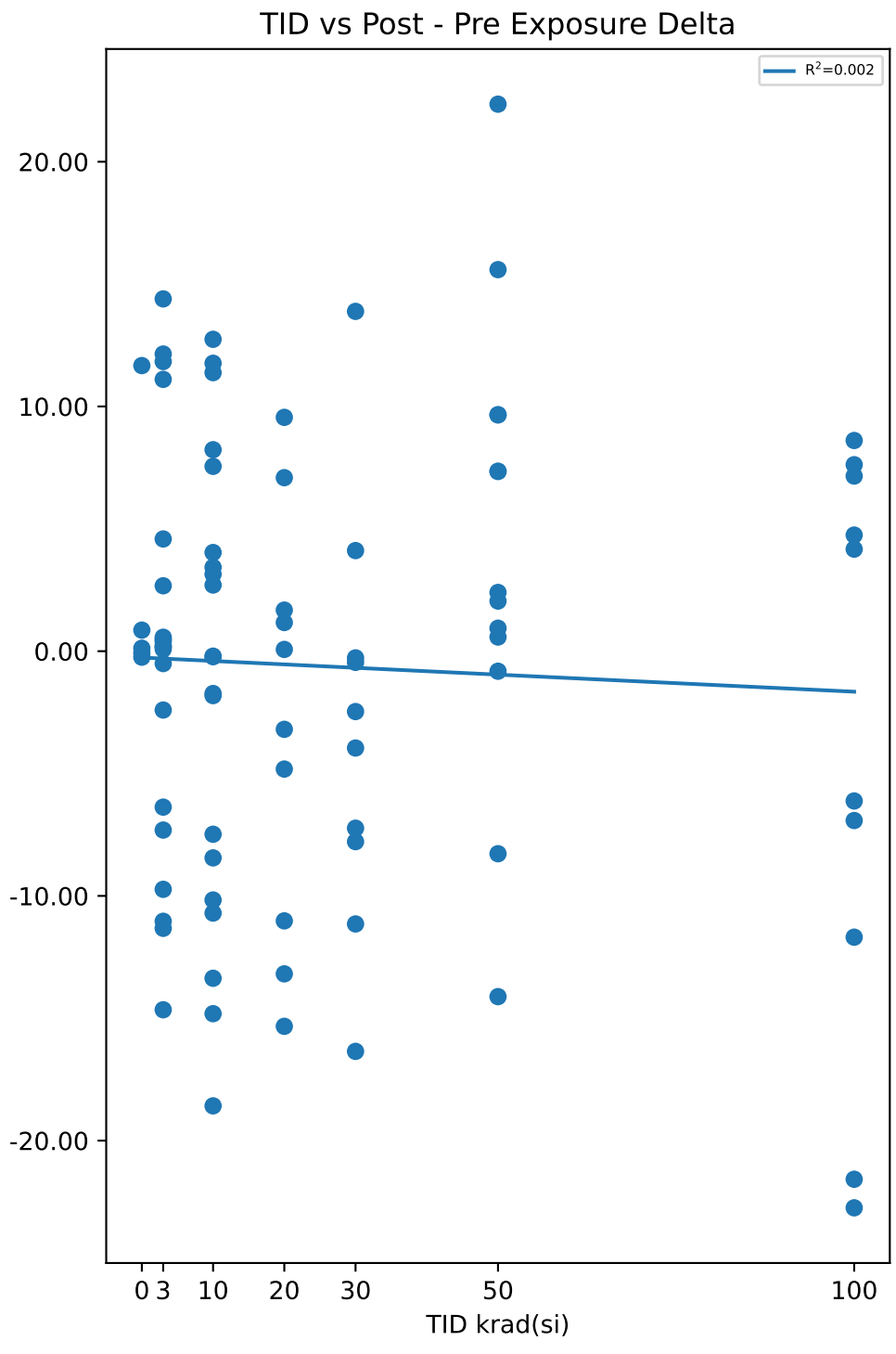
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	100	100	0
51	3	Biased	100	100	0
52	3	Biased	100	100	0
53	3	Biased	100	100	0
54	3	Biased	100	100	0
55	3	Unbiased	100	100	0
56	3	Unbiased	100	100	0
57	3	Unbiased	100	100	0
58	3	Unbiased	100	100	0
59	3	Unbiased	100	100	0
60	10	Biased	100	100	0
61	10	Biased	100	100	0
62	10	Biased	100	100	0
63	10	Biased	100	100	0
64	10	Biased	100	100	0
65	10	Unbiased	100	100	0
66	10	Unbiased	100	100	0
67	10	Unbiased	100	100	0
68	10	Unbiased	100	100	0
69	10	Unbiased	100	100	0
100	20	Biased	100	100	0
200	20	Biased	100	100	0
300	20	Biased	100	100	0
400	20	Biased	100	100	0
500	20	Biased	100	100	0
600	20	Unbiased	100	100	0
700	20	Unbiased	100	100	0
800	20	Unbiased	100	100	0
900	20	Unbiased	100	100	0
1000	20	Unbiased	100	100	0
1100	30	Biased	100	100	0
1200	30	Biased	100	100	0
1300	30	Biased	100	100	0
1400	30	Biased	100	100	0
1500	30	Biased	100	100	0
1600	30	Unbiased	100	100	0
1700	30	Unbiased	100	100	0
1800	30	Unbiased	100	100	0
1900	30	Unbiased	100	100	0
2000	30	Unbiased	100	100	0
2100	50	Biased-84Hr-Anneal	100	100	0
2200	50	Biased-84Hr-Anneal	100	100	0
2300	50	Biased-84Hr-Anneal	100	100	0
2400	50	Biased-84Hr-Anneal	100	100	0
2500	50	Biased-84Hr-Anneal	100	100	0
2600	50	Unbiased	100	100	0
2700	50	Unbiased	100	100	0
2800	50	Unbiased	100	100	0
2900	50	Unbiased	100	100	0
3000	50	Unbiased	100	100	0
4000	100	Biased-168Hr-Anneal	100	100	0
4100	100	Biased-168Hr-Anneal	100	100	0
4200	100	Biased-168Hr-Anneal	100	100	0
4300	100	Biased-168Hr-Anneal	100	100	0
4400	100	Biased-168Hr-Anneal	100	100	0
4500	100	Unbiased-168Hr-Anneal	100	100	0
4600	100	Unbiased-168Hr-Anneal	100	100	0
4700	100	Unbiased-168Hr-Anneal	100	100	0
4800	100	Unbiased-168Hr-Anneal	100	100	0
4900	100	Unbiased-168Hr-Anneal	100	100	0
9300	0	CORRELATION	100	100	0
9400	0	CORRELATION	100	100	0
9500	0	CORRELATION	100	100	0
9600	0	CORRELATION	100	100	0
9700	0	CORRELATION	100	100	0

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	100	100	100	0	100	100	100	0	0	0	0	0
3	100	100	100	0	100	100	100	0	0	0	0	0
10	100	100	100	0	100	100	100	0	0	0	0	0
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
100	100	100	100	0	100	100	100	0	0	0	0	0

Device Test: 24.92 TIMING|DELAY/SYNC1/12//OPEN//@SYNC1_SW_DELAY_INV





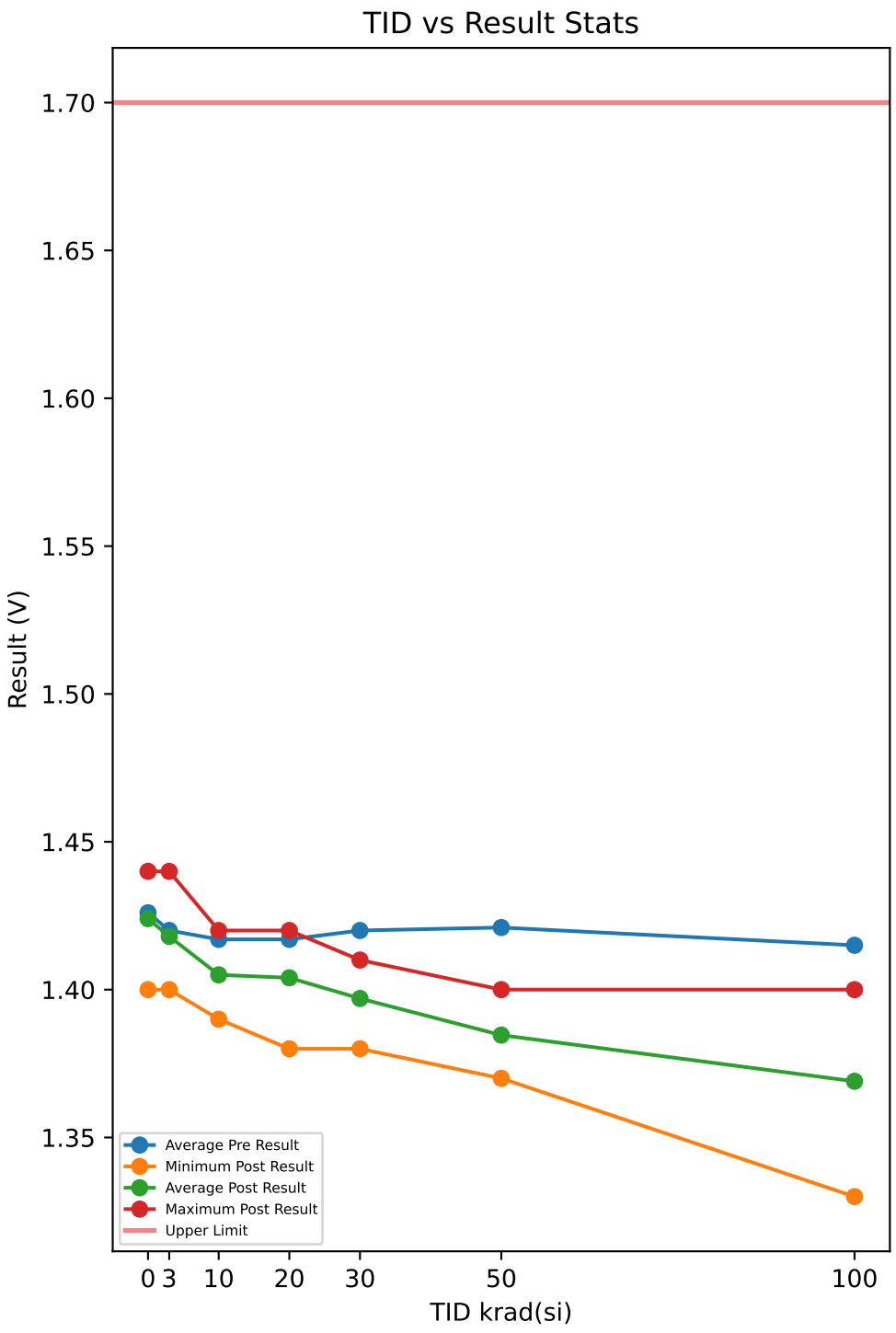
Test Results (Lower Limit = 160.0, Upper Limit = 310.0 (ns))

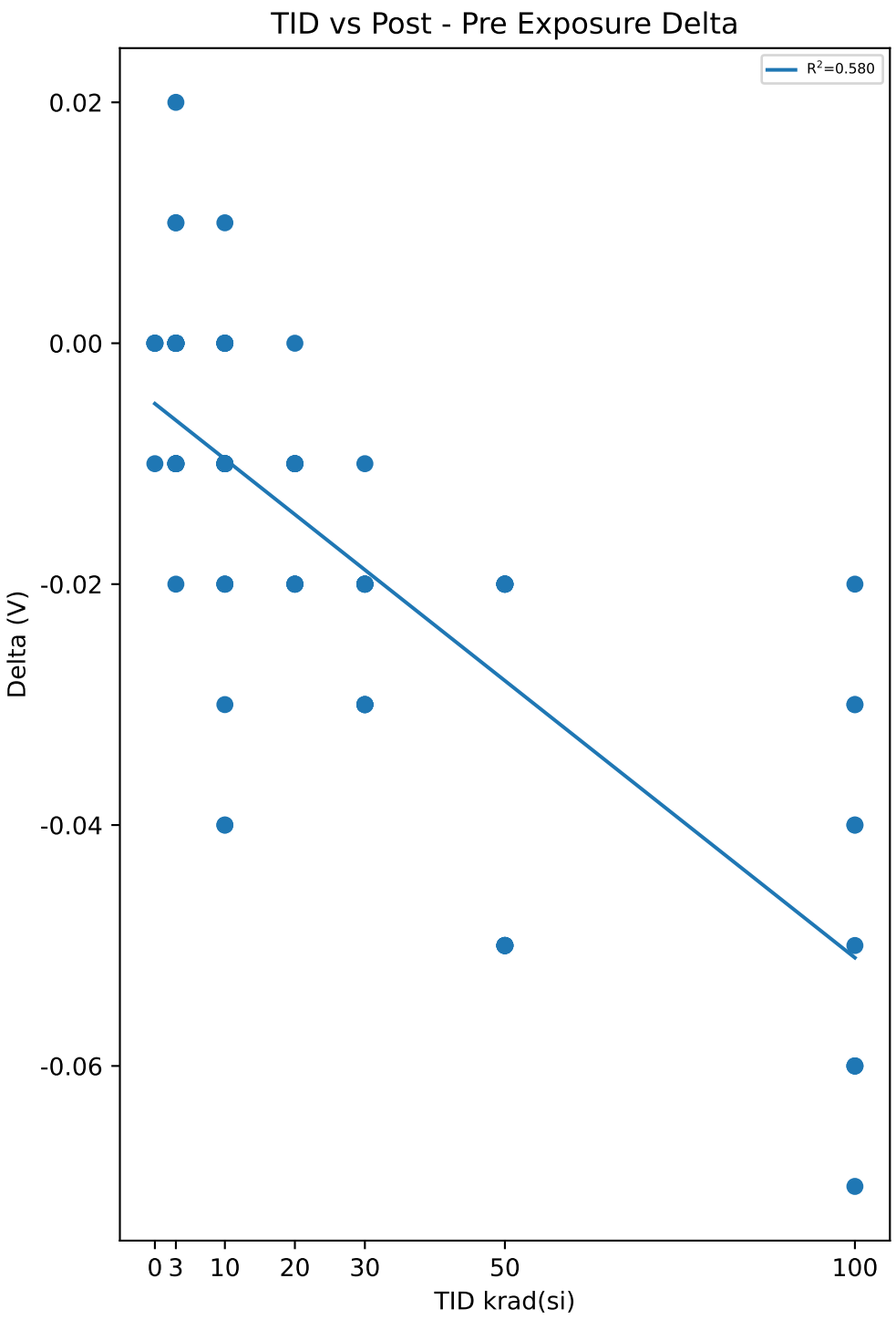
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	250.64	250.13	-0.5064
51	3	Biased	239.49	233.12	-6.3723
52	3	Biased	254.14	239.48	-14.653
53	3	Biased	241.53	244.21	2.6728
54	3	Biased	245	249.58	4.5853
55	3	Unbiased	239.1	251.24	12.142
56	3	Unbiased	245.36	238.05	-7.3097
57	3	Unbiased	232.96	233.53	0.5702
58	3	Unbiased	251.07	241.34	-9.7312
59	3	Unbiased	247.76	247.96	0.1993
60	10	Biased	245.7	232.33	-13.366
61	10	Biased	233.4	240.95	7.5532
62	10	Biased	253.52	245.08	-8.4467
63	10	Biased	237.43	250.18	12.744
64	10	Biased	243.3	241.57	-1.7298
65	10	Unbiased	240.06	244.09	4.0316
66	10	Unbiased	257.47	238.89	-18.579
67	10	Unbiased	245.41	248.12	2.7036
68	10	Unbiased	252.54	245.06	-7.4808
69	10	Unbiased	238.89	247.12	8.232
100	20	Biased	248.73	237.71	-11.021
200	20	Biased	247.17	231.84	-15.33
300	20	Biased	244.69	244.76	0.0717
400	20	Biased	238.93	240.1	1.1707
500	20	Biased	227.21	228.89	1.6789
600	20	Unbiased	251.12	246.3	-4.817
700	20	Unbiased	237.33	244.42	7.0901
800	20	Unbiased	242.48	229.29	-13.185
900	20	Unbiased	235.06	244.61	9.5551
1000	20	Unbiased	250.36	247.17	-3.1934
1100	30	Biased	244.11	236.33	-7.783
1200	30	Biased	240.34	236.39	-3.9567
1300	30	Biased	234.37	248.25	13.886
1400	30	Biased	254.13	237.78	-16.353
1500	30	Biased	240.25	239.8	-0.4575
1600	30	Unbiased	247.05	244.58	-2.4675
1700	30	Unbiased	236.39	236.11	-0.2742
1800	30	Unbiased	250.23	243	-7.234
1900	30	Unbiased	244.33	248.45	4.1109
2000	30	Unbiased	254.53	243.39	-11.146
2100	50	Biased-84Hr-Anneal	235.1	244.76	9.659
2200	50	Biased-84Hr-Anneal	232.63	254.98	22.352
2300	50	Biased-84Hr-Anneal	235.4	250.99	15.591
2400	50	Biased-84Hr-Anneal	232.11	234.16	2.0486
2500	50	Biased-84Hr-Anneal	241.26	241.84	0.5788
2600	50	Unbiased	247.87	233.75	-14.116
2700	50	Unbiased	241.21	240.39	-0.8192
2800	50	Unbiased	247.38	249.78	2.3999
2900	50	Unbiased	234.02	234.96	0.939
3000	50	Unbiased	250.89	242.62	-8.2767
4000	100	Biased-168Hr-Anneal	230.85	235.59	4.7447
4100	100	Biased-168Hr-Anneal	254.74	233.16	-21.579
4200	100	Biased-168Hr-Anneal	234.17	238.34	4.1702
4300	100	Biased-168Hr-Anneal	252.77	245.85	-6.9195
4400	100	Biased-168Hr-Anneal	240.06	247.68	7.62
4500	100	Unbiased-168Hr-Anneal	234.57	241.73	7.1562
4600	100	Unbiased-168Hr-Anneal	257.65	245.96	-11.687
4700	100	Unbiased-168Hr-Anneal	230.28	238.89	8.6093
4800	100	Unbiased-168Hr-Anneal	233.92	227.8	-6.1207
4900	100	Unbiased-168Hr-Anneal	253.04	230.3	-22.746
9300	0	CORRELATION	237.33	249	11.67
9400	0	CORRELATION	246.85	246.6	-0.2446
9500	0	CORRELATION	230.16	231.02	0.8604
9600	0	CORRELATION	244.71	244.83	0.1209
9700	0	CORRELATION	242.02	241.95	-0.0708

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	230.16	240.21	246.85	6.6515	231.02	242.68	249	7.0091	-0.2446	2.4672	11.67	5.1617
3	232.96	244.71	254.14	6.5085	233.12	242.87	251.24	6.7911	-14.653	-1.8402	12.142	7.7874
10	233.4	244.77	257.47	7.7569	232.33	243.34	250.18	5.1662	-18.579	-1.4338	12.744	10.244
20	227.21	242.31	251.12	7.6716	228.89	239.51	247.17	7.1646	-15.33	-2.7979	9.5551	8.3745
30	234.37	244.57	254.53	6.9661	236.11	241.41	248.45	4.804	-16.353	-3.1676	13.886	8.4062
50	232.11	239.79	250.89	6.953	233.75	242.82	254.98	7.3997	-14.116	3.0357	22.352	10.664
100	230.28	242.21	257.65	11.015	227.8	238.53	247.68	6.8584	-22.746	-3.6752	8.6093	11.987

Device Test: 24.93 THRESHOLD|RISE/SYNC1/12//OPEN//@SYNC1_VIH





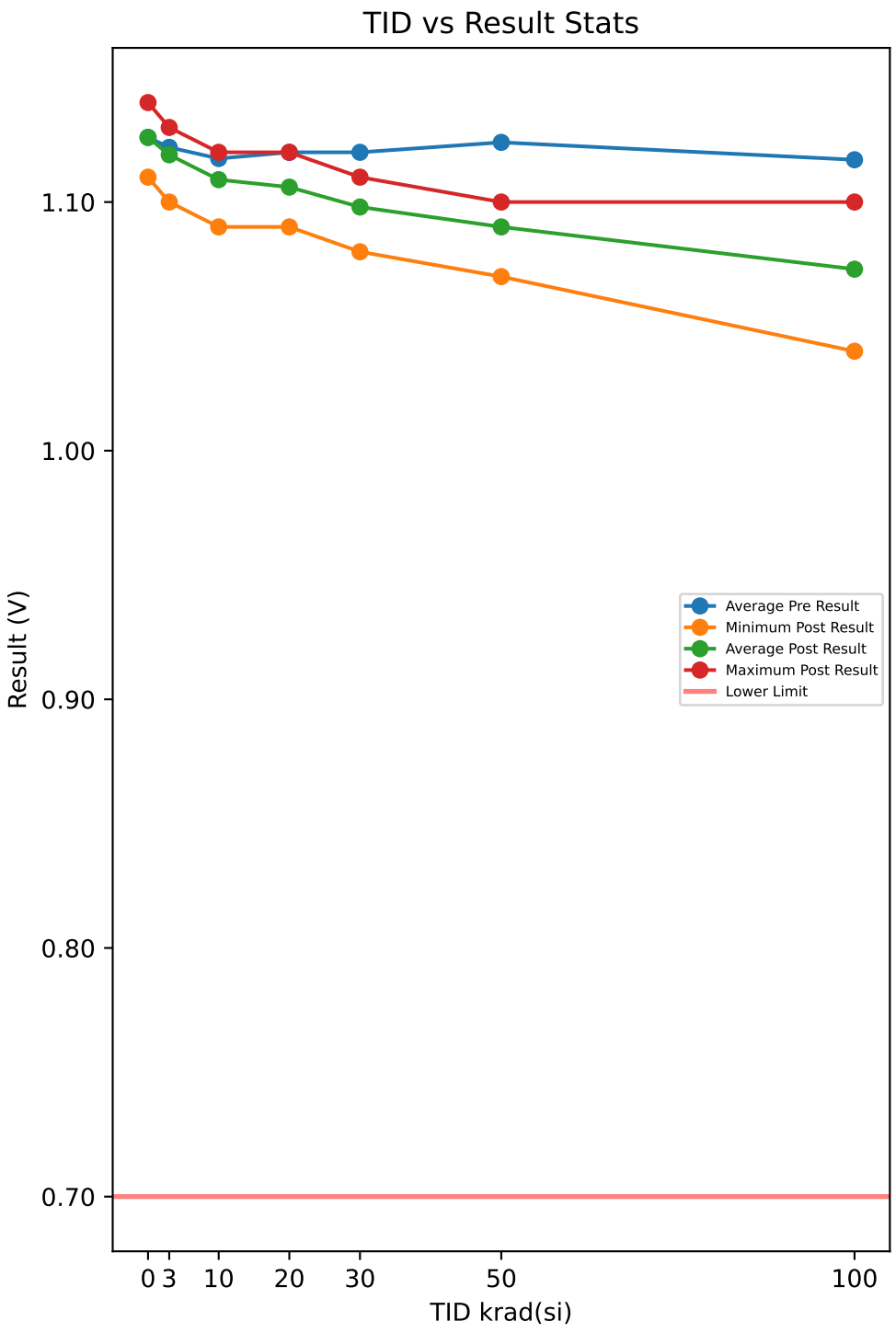
Test Results (Upper Limit = 1.7 (V))

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.41	1.41	0
51	3	Biased	1.43	1.42	-0.01
52	3	Biased	1.42	1.44	0.02
53	3	Biased	1.41	1.42	0.01
54	3	Biased	1.42	1.4	-0.02
55	3	Unbiased	1.42	1.42	0
56	3	Unbiased	1.43	1.42	-0.01
57	3	Unbiased	1.42	1.42	0
58	3	Unbiased	1.43	1.42	-0.01
59	3	Unbiased	1.41	1.41	0
60	10	Biased	1.44	1.4	-0.04
61	10	Biased	1.43	1.39	-0.04
62	10	Biased	1.43	1.4	-0.03
63	10	Biased	1.4	1.4	0
64	10	Biased	1.43	1.42	-0.01
65	10	Unbiased	1.41	1.42	0.01
66	10	Unbiased	1.42	1.41	-0.01
67	10	Unbiased	1.42	1.4	-0.02
68	10	Unbiased	1.41	1.41	0
69	10	Unbiased	1.41	1.4	-0.01
100	20	Biased	1.4	1.4	0
200	20	Biased	1.42	1.41	-0.01
300	20	Biased	1.41	1.4	-0.01
400	20	Biased	1.42	1.41	-0.01
500	20	Biased	1.42	1.41	-0.01
600	20	Unbiased	1.43	1.42	-0.01
700	20	Unbiased	1.4	1.38	-0.02
800	20	Unbiased	1.42	1.4	-0.02
900	20	Unbiased	1.42	1.4	-0.02
1000	20	Unbiased	1.43	1.41	-0.02
1100	30	Biased	1.41	1.4	-0.01
1200	30	Biased	1.43	1.41	-0.02
1300	30	Biased	1.42	1.4	-0.02
1400	30	Biased	1.42	1.4	-0.02
1500	30	Biased	1.43	1.41	-0.02
1600	30	Unbiased	1.43	1.4	-0.03
1700	30	Unbiased	1.41	1.38	-0.03
1800	30	Unbiased	1.42	1.39	-0.03
1900	30	Unbiased	1.41	1.38	-0.03
2000	30	Unbiased	1.42	1.4	-0.02
2100	50	Biased-84Hr-Anneal	1.41	1.39	-0.02
2200	50	Biased-84Hr-Anneal	1.44	1.39	-0.05
2300	50	Biased-84Hr-Anneal	1.42	1.4	-0.02
2400	50	Biased-84Hr-Anneal	1.41	1.39	-0.02
2500	50	Biased-84Hr-Anneal	1.4	1.38	-0.02
2600	50	Unbiased	1.42	1.37	-0.05
2700	50	Unbiased	1.42	1.37	-0.05
2800	50	Unbiased	1.43	1.38	-0.05
2900	50	Unbiased	1.43	1.38	-0.05
3000	50	Unbiased	1.43	1.38	-0.05
4000	100	Biased-168Hr-Anneal	1.41	1.38	-0.03
4100	100	Biased-168Hr-Anneal	1.4	1.38	-0.02
4200	100	Biased-168Hr-Anneal	1.43	1.4	-0.03
4300	100	Biased-168Hr-Anneal	1.42	1.38	-0.04
4400	100	Biased-168Hr-Anneal	1.42	1.38	-0.04
4500	100	Unbiased-168Hr-Anneal	1.43	1.37	-0.06
4600	100	Unbiased-168Hr-Anneal	1.41	1.35	-0.06
4700	100	Unbiased-168Hr-Anneal	1.4	1.33	-0.07
4800	100	Unbiased-168Hr-Anneal	1.41	1.35	-0.06
4900	100	Unbiased-168Hr-Anneal	1.42	1.37	-0.05
9300	0	CORRELATION	1.41	1.4	-0.01
9400	0	CORRELATION	1.43	1.43	0
9500	0	CORRELATION	1.44	1.44	0
9600	0	CORRELATION	1.42	1.42	0
9700	0	CORRELATION	1.43	1.43	0

Test Statistics (V)

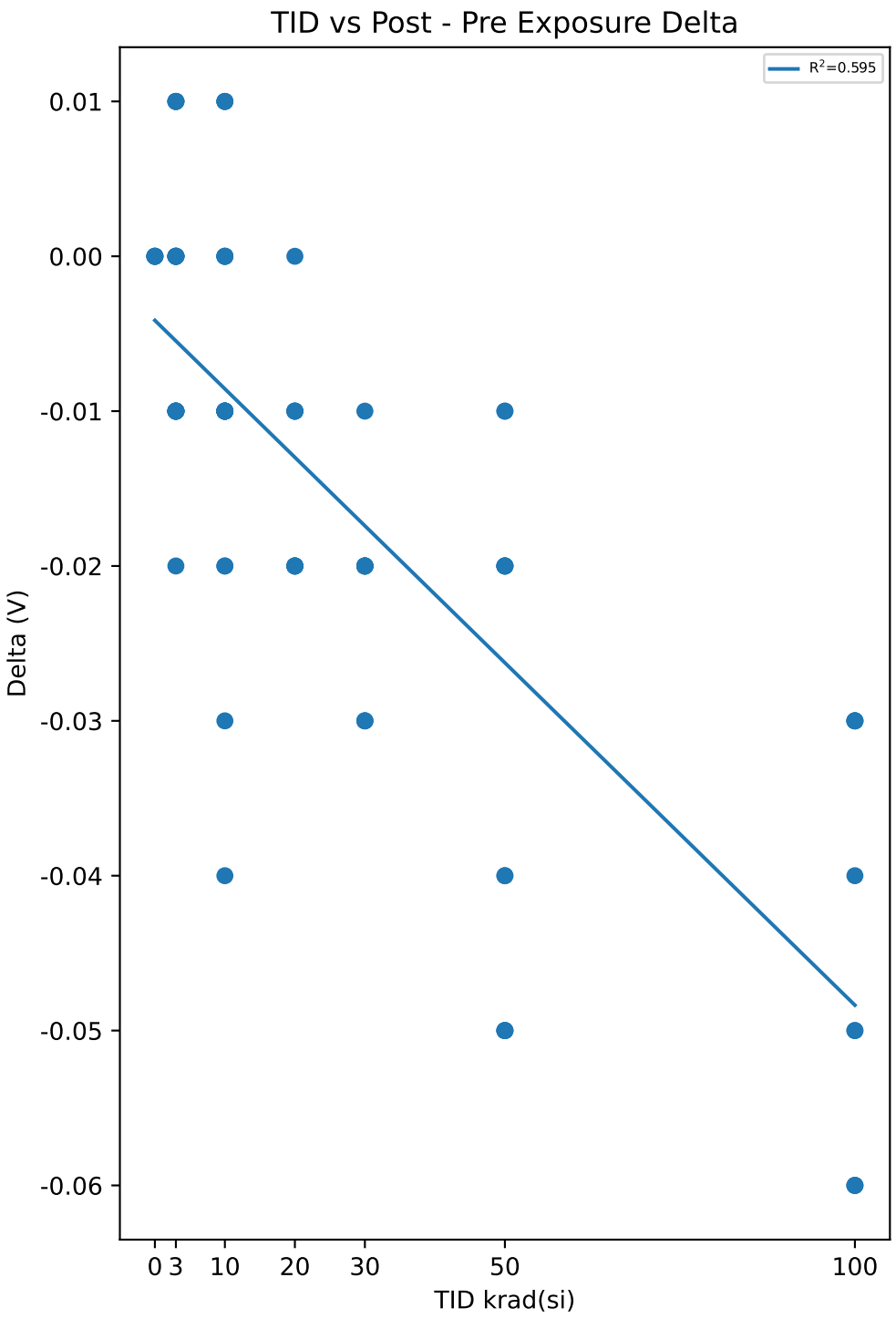
krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.41	1.426	1.44	0.011402	1.4	1.424	1.44	0.015166	-0.01	-0.002	0	0.0044721
3	1.41	1.42	1.43	0.008165	1.4	1.418	1.44	0.010328	-0.02	-0.002	0.02	0.011353
10	1.4	1.42	1.44	0.012472	1.39	1.405	1.42	0.0097183	-0.04	-0.015	0.01	0.017159
20	1.4	1.417	1.43	0.010593	1.38	1.404	1.42	0.01075	-0.02	-0.013	0	0.0067495
30	1.41	1.42	1.43	0.008165	1.38	1.397	1.41	0.010593	-0.03	-0.023	-0.01	0.0067495
50	1.4	1.421	1.44	0.011972	1.37	1.383	1.4	0.0094868	-0.05	-0.038	-0.02	0.015492
100	1.4	1.415	1.43	0.010801	1.33	1.369	1.4	0.020248	-0.07	-0.046	-0.02	0.016465

Device Test: 24.94 THRESHOLD|FALL/SYNC1/12//OPEN//@SYNC1_VIL



Test Results (Lower Limit = 0.7 (V))

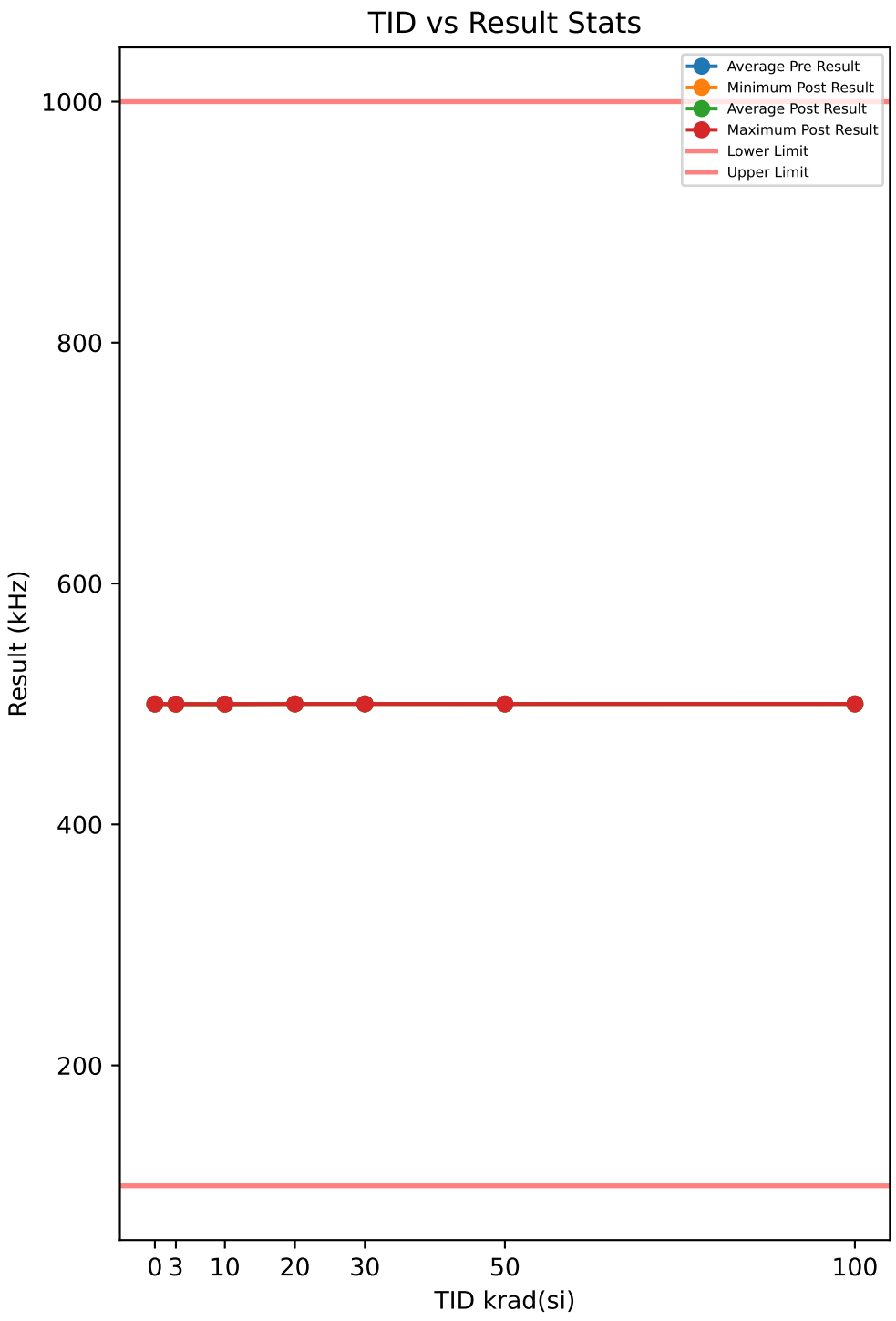
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1.11	1.12	0.01
51	3	Biased	1.13	1.12	-0.01
52	3	Biased	1.12	1.13	0.01
53	3	Biased	1.11	1.12	0.01
54	3	Biased	1.12	1.1	-0.02
55	3	Unbiased	1.13	1.12	-0.01
56	3	Unbiased	1.13	1.12	-0.01
57	3	Unbiased	1.12	1.12	0
58	3	Unbiased	1.14	1.13	-0.01
59	3	Unbiased	1.11	1.11	0
60	10	Biased	1.14	1.11	-0.03
61	10	Biased	1.13	1.09	-0.04
62	10	Biased	1.12	1.1	-0.02
63	10	Biased	1.1	1.11	0.01
64	10	Biased	1.13	1.12	-0.01
65	10	Unbiased	1.11	1.12	0.01
66	10	Unbiased	1.12	1.12	0
67	10	Unbiased	1.12	1.1	-0.02
68	10	Unbiased	1.11	1.12	0.01
69	10	Unbiased	1.11	1.1	-0.01
100	20	Biased	1.1	1.1	0
200	20	Biased	1.12	1.11	-0.01
300	20	Biased	1.11	1.1	-0.01
400	20	Biased	1.12	1.11	-0.01
500	20	Biased	1.12	1.11	-0.01
600	20	Unbiased	1.14	1.12	-0.02
700	20	Unbiased	1.11	1.09	-0.02
800	20	Unbiased	1.13	1.11	-0.02
900	20	Unbiased	1.12	1.1	-0.02
1000	20	Unbiased	1.13	1.11	-0.02
1100	30	Biased	1.11	1.1	-0.01
1200	30	Biased	1.13	1.11	-0.02
1300	30	Biased	1.12	1.1	-0.02
1400	30	Biased	1.12	1.1	-0.02
1500	30	Biased	1.13	1.11	-0.02
1600	30	Unbiased	1.13	1.1	-0.03
1700	30	Unbiased	1.11	1.09	-0.02
1800	30	Unbiased	1.12	1.09	-0.03
1900	30	Unbiased	1.11	1.08	-0.03
2000	30	Unbiased	1.12	1.1	-0.02
2100	50	Biased-84Hr-Anneal	1.11	1.1	-0.01
2200	50	Biased-84Hr-Anneal	1.14	1.1	-0.04
2300	50	Biased-84Hr-Anneal	1.12	1.1	-0.02
2400	50	Biased-84Hr-Anneal	1.11	1.09	-0.02
2500	50	Biased-84Hr-Anneal	1.11	1.09	-0.02
2600	50	Unbiased	1.12	1.07	-0.05
2700	50	Unbiased	1.13	1.08	-0.05
2800	50	Unbiased	1.13	1.08	-0.05
2900	50	Unbiased	1.14	1.09	-0.05
3000	50	Unbiased	1.13	1.09	-0.04
4000	100	Biased-168Hr-Anneal	1.12	1.09	-0.03
4100	100	Biased-168Hr-Anneal	1.11	1.08	-0.03
4200	100	Biased-168Hr-Anneal	1.13	1.1	-0.03
4300	100	Biased-168Hr-Anneal	1.12	1.08	-0.04
4400	100	Biased-168Hr-Anneal	1.12	1.09	-0.03
4500	100	Unbiased-168Hr-Anneal	1.13	1.07	-0.06
4600	100	Unbiased-168Hr-Anneal	1.11	1.05	-0.06
4700	100	Unbiased-168Hr-Anneal	1.1	1.04	-0.06
4800	100	Unbiased-168Hr-Anneal	1.11	1.06	-0.05
4900	100	Unbiased-168Hr-Anneal	1.12	1.07	-0.05
9300	0	CORRELATION	1.11	1.11	0
9400	0	CORRELATION	1.13	1.13	0
9500	0	CORRELATION	1.14	1.14	0
9600	0	CORRELATION	1.12	1.12	0
9700	0	CORRELATION	1.13	1.13	0

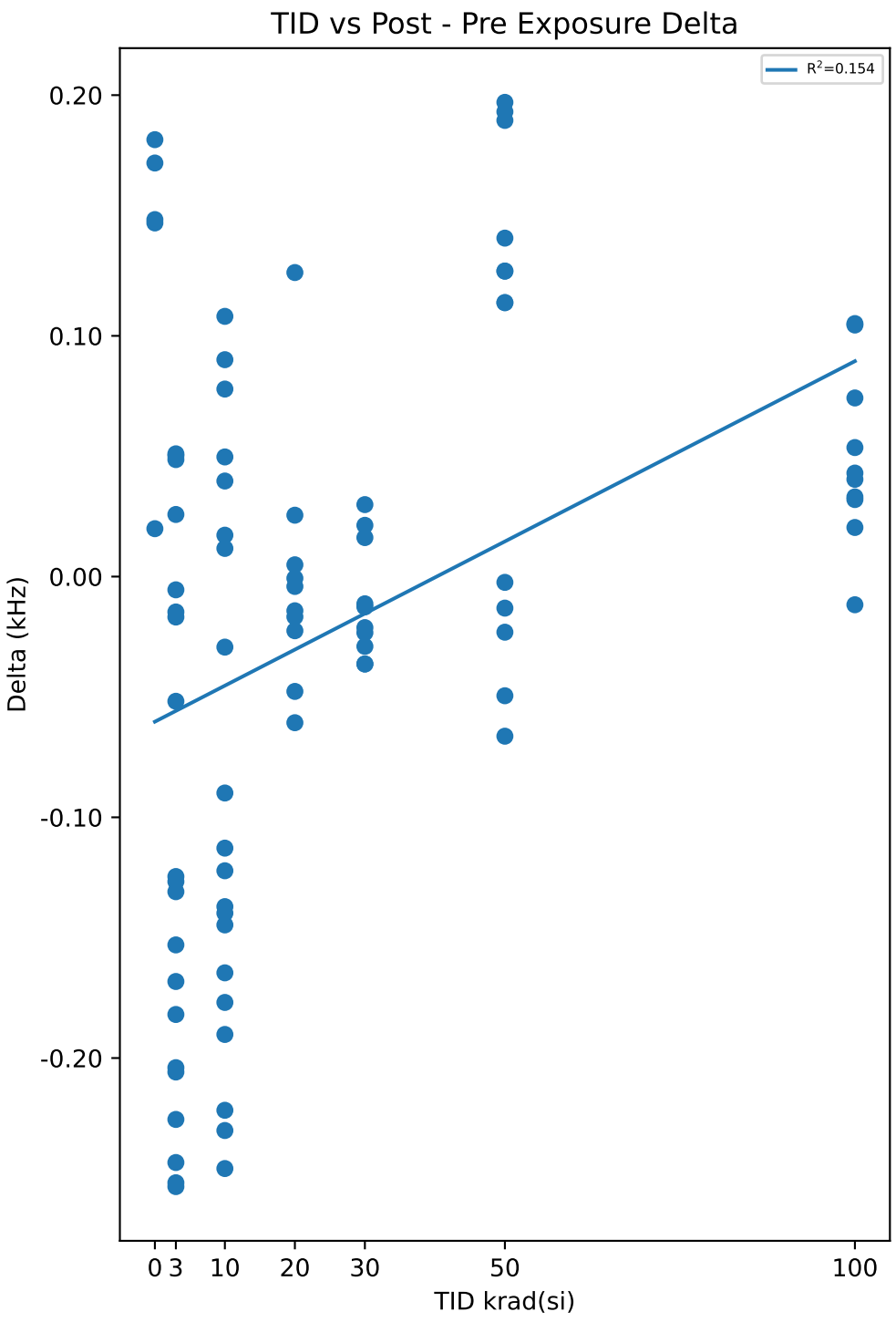


Test Statistics (V)

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	1.11	1.126	1.14	0.011402	1.11	1.126	1.14	0.011402	0	0	0	0
3	1.11	1.122	1.14	0.010328	1.1	1.119	1.13	0.008756	-0.02	-0.003	0.01	0.010593
10	1.1	1.119	1.14	0.011972	1.09	1.109	1.12	0.011005	-0.04	-0.01	0.01	0.017638
20	1.1	1.12	1.14	0.011547	1.09	1.106	1.12	0.0084327	-0.02	-0.014	0	0.0069921
30	1.11	1.12	1.13	0.008165	1.08	1.098	1.11	0.0091894	-0.03	-0.022	-0.01	0.0063246
50	1.11	1.124	1.14	0.011738	1.07	1.089	1.1	0.0099443	-0.05	-0.035	-0.01	0.015811
100	1.1	1.117	1.13	0.0094868	1.04	1.073	1.1	0.018886	-0.06	-0.044	-0.03	0.013499

Device Test: 24.95 FREQ|500kHz/SYNC1/12//OPEN//@SYNC_FREQ_RANGE





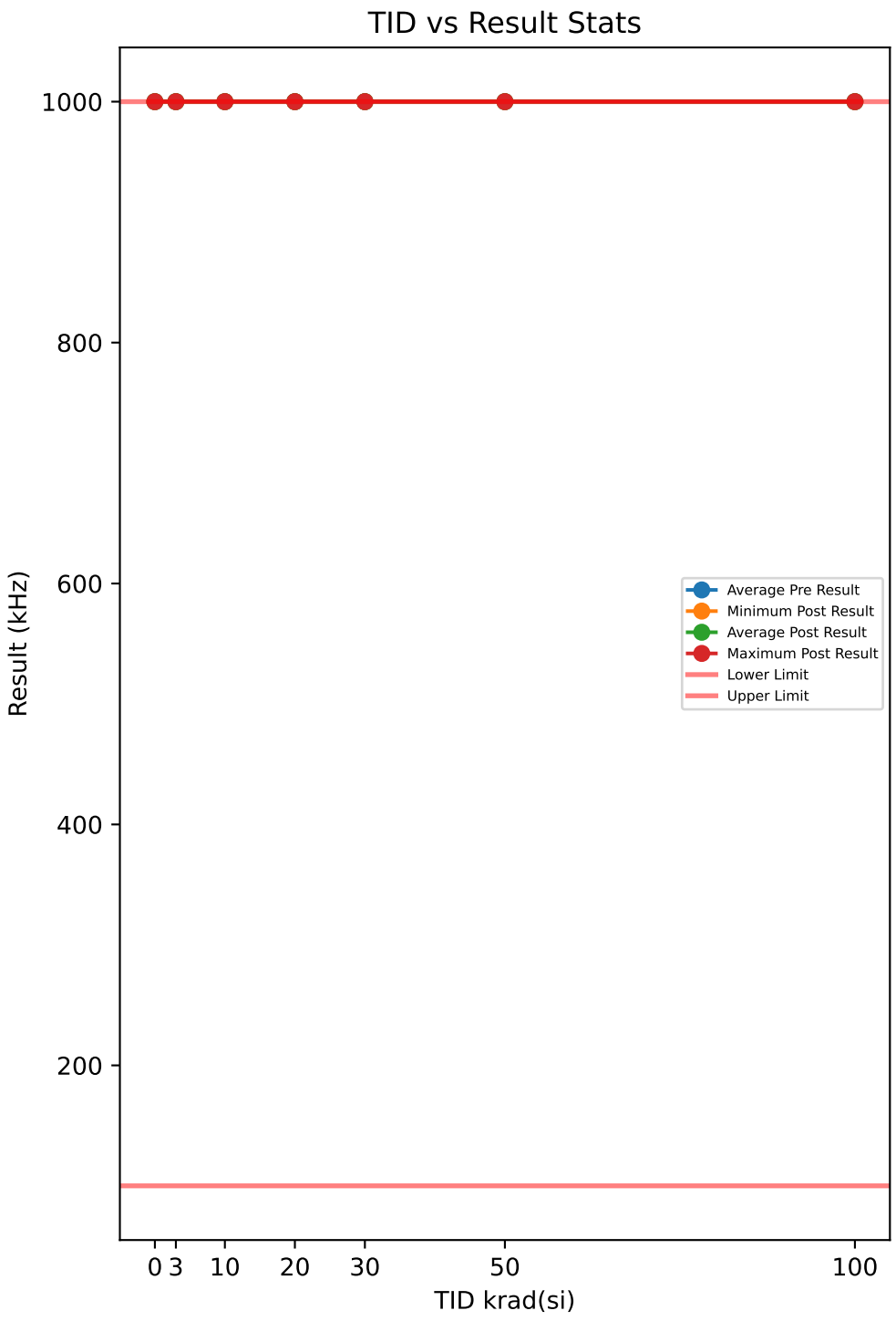
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

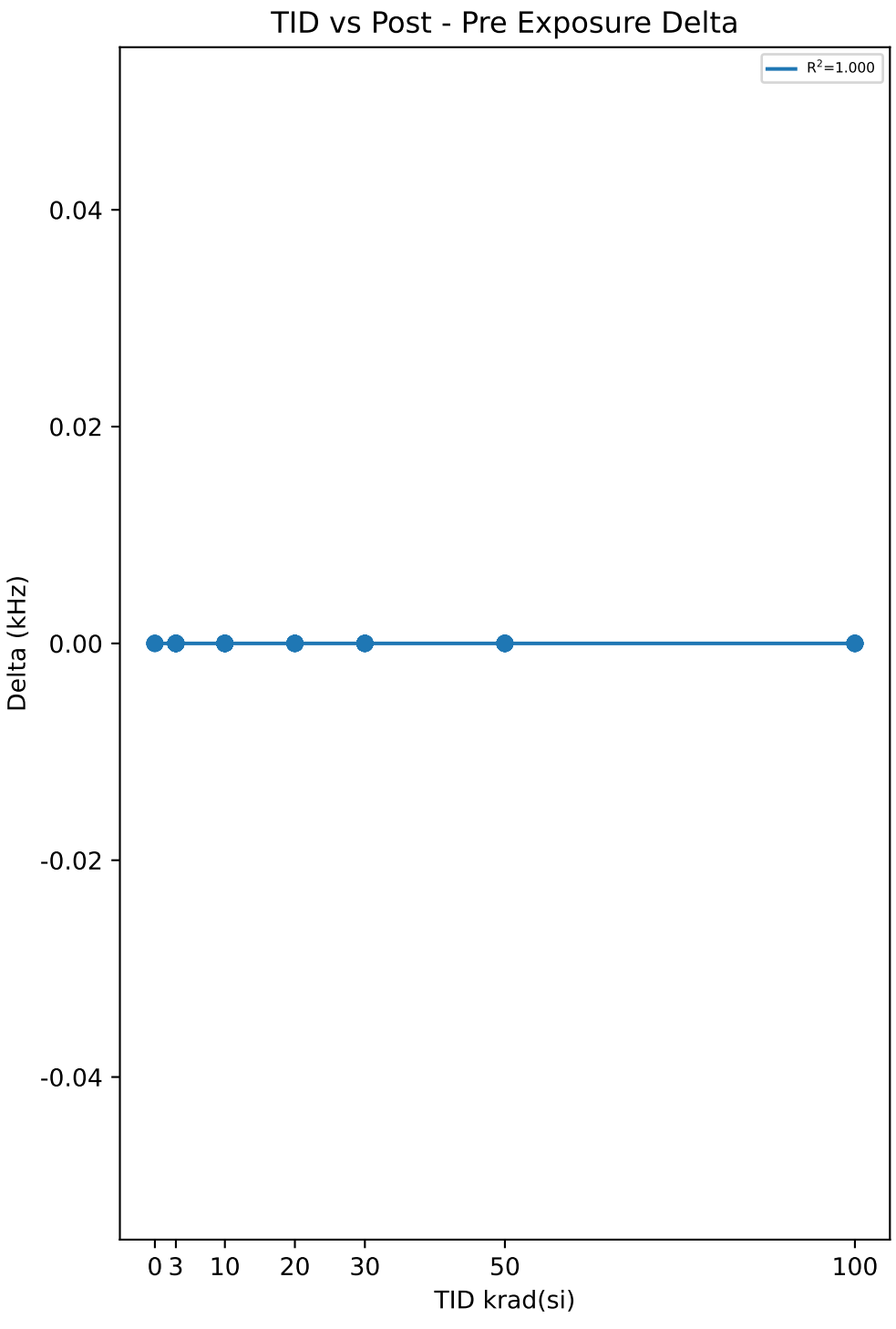
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	500.06	499.81	-0.2534
51	3	Biased	500.05	499.82	-0.2255
52	3	Biased	500.04	499.86	-0.1819
53	3	Biased	500.02	499.86	-0.153
54	3	Biased	500.02	499.82	-0.204
55	3	Unbiased	500.04	499.83	-0.2058
56	3	Unbiased	500.07	499.94	-0.1246
57	3	Unbiased	500.02	499.85	-0.1682
58	3	Unbiased	500.04	499.79	-0.2518
59	3	Unbiased	500.03	499.79	-0.2434
60	10	Biased	500.03	499.89	-0.1447
61	10	Biased	499.99	499.85	-0.1398
62	10	Biased	500.04	499.79	-0.2459
63	10	Biased	500.02	499.85	-0.1769
64	10	Biased	500.05	499.94	-0.1128
65	10	Unbiased	500.02	499.8	-0.2217
66	10	Unbiased	500.02	499.9	-0.1222
67	10	Unbiased	500.03	499.8	-0.2301
68	10	Unbiased	500.04	499.85	-0.1902
69	10	Unbiased	500.02	499.86	-0.1646
100	20	Biased	499.88	500.01	0.1263
200	20	Biased	500.08	500.01	-0.0607
300	20	Biased	500.05	500.05	-0.0007
400	20	Biased	500.04	500.02	-0.0167
500	20	Biased	500.04	500.01	-0.0225
600	20	Unbiased	500.04	500.03	-0.0041
700	20	Unbiased	500.03	500.04	0.0049
800	20	Unbiased	500.03	500.01	-0.0142
900	20	Unbiased	500.02	500.04	0.0255
1000	20	Unbiased	500.06	500.01	-0.0477
1100	30	Biased	500.05	500.02	-0.0363
1200	30	Biased	500.02	500.04	0.0162
1300	30	Biased	500.02	500.04	0.0213
1400	30	Biased	500.05	500.02	-0.029
1500	30	Biased	500.04	500.02	-0.0212
1600	30	Unbiased	500.01	500.04	0.0299
1700	30	Unbiased	500.02	500.01	-0.0126
1800	30	Unbiased	500.06	500.05	-0.0113
1900	30	Unbiased	500.05	500.02	-0.0363
2000	30	Unbiased	500.04	500.01	-0.0233
2100	50	Biased-84Hr-Anneal	499.87	499.98	0.1138
2200	50	Biased-84Hr-Anneal	499.84	500.04	0.1931
2300	50	Biased-84Hr-Anneal	499.85	500.03	0.1895
2400	50	Biased-84Hr-Anneal	499.86	500	0.1406
2500	50	Biased-84Hr-Anneal	499.86	500.06	0.197
2600	50	Unbiased	500.07	500.02	-0.0495
2700	50	Unbiased	500.05	500.04	-0.0131
2800	50	Unbiased	500.04	500.04	-0.0024
2900	50	Unbiased	500.04	499.97	-0.0663
3000	50	Unbiased	500.05	500.03	-0.0231
4000	100	Biased-168Hr-Anneal	500	500.03	0.032
4100	100	Biased-168Hr-Anneal	499.97	500.01	0.0404
4200	100	Biased-168Hr-Anneal	499.97	500.02	0.043
4300	100	Biased-168Hr-Anneal	499.96	500.06	0.1045
4400	100	Biased-168Hr-Anneal	500.01	500	-0.0117
4500	100	Unbiased-168Hr-Anneal	499.98	500.02	0.0331
4600	100	Unbiased-168Hr-Anneal	499.98	500.03	0.0536
4700	100	Unbiased-168Hr-Anneal	499.99	500.09	0.1051
4800	100	Unbiased-168Hr-Anneal	500	500.02	0.0204
4900	100	Unbiased-168Hr-Anneal	499.94	500.01	0.0742
9300	0	CORRELATION	500.02	500.04	0.0199
9400	0	CORRELATION	499.85	500.03	0.1718
9500	0	CORRELATION	499.84	499.99	0.1483
9600	0	CORRELATION	499.88	500.03	0.1469
9700	0	CORRELATION	499.84	500.02	0.1815

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	499.84	499.89	500.02	0.075839	499.99	500.02	500.04	0.018217	0.0199	0.13368	0.1815	0.065334
3	500.02	500.04	500.07	0.017207	499.79	499.84	499.94	0.044434	-0.2534	-0.20116	-0.1246	0.043891
10	499.99	500.03	500.05	0.017468	499.79	499.85	499.94	0.047828	-0.2459	-0.17489	-0.1128	0.046428
20	499.88	500.03	500.08	0.053665	500.01	500.02	500.05	0.014064	-0.0607	-0.00099	0.1263	0.051186
30	500.01	500.04	500.06	0.018239	500.01	500.03	500.05	0.01498	-0.0363	-0.01026	0.0299	0.024296
50	499.84	499.95	500.07	0.10292	499.97	500.02	500.06	0.027872	-0.0663	0.06796	0.197	0.10858
100	499.94	499.98	500.01	0.022926	500	500.03	500.09	0.027284	-0.0117	0.04946	0.1051	0.036569

Device Test: 24.96 FREQ|1000kHz/SYNC1/12//OPEN//@SYNC_FREQ_RANGE





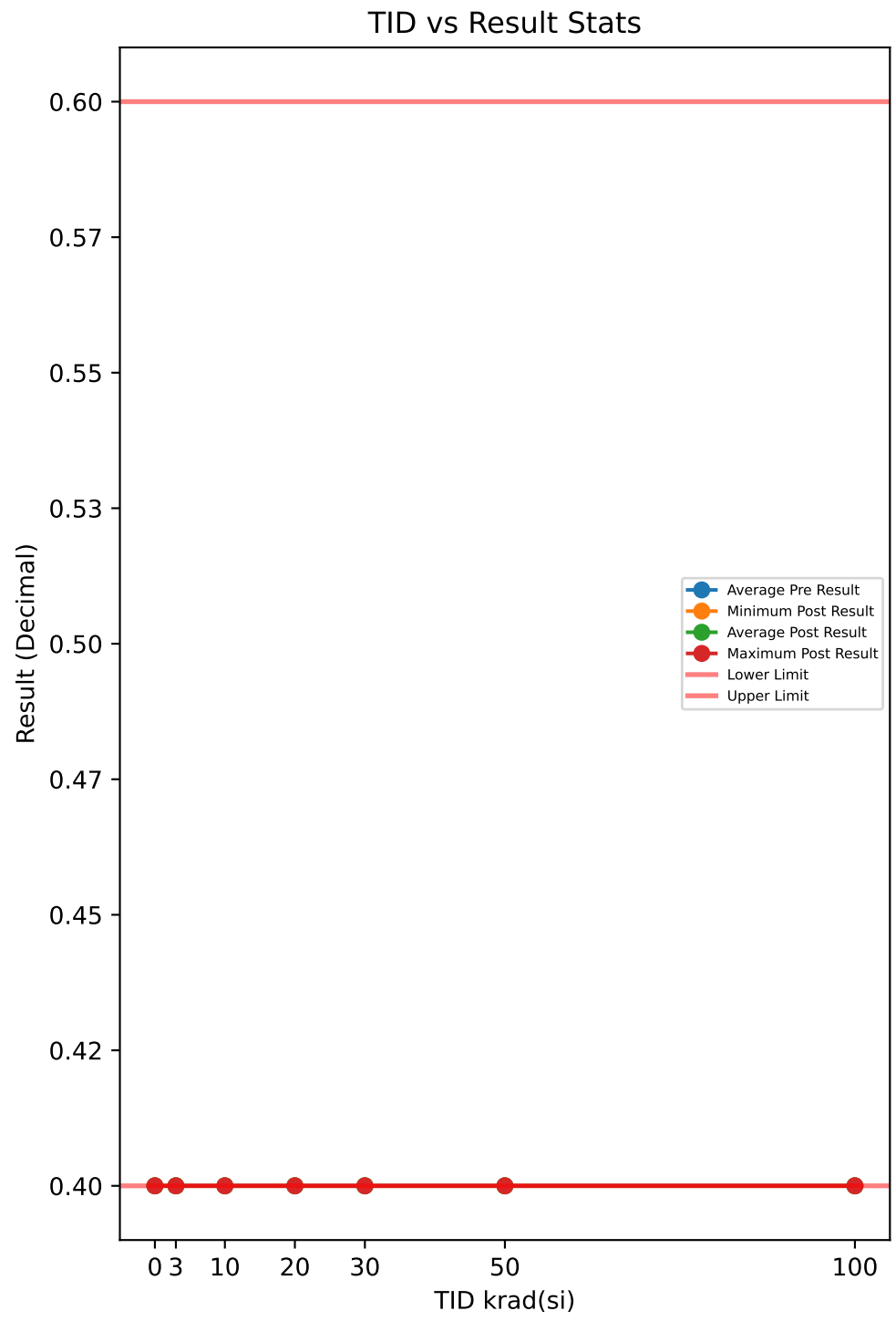
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

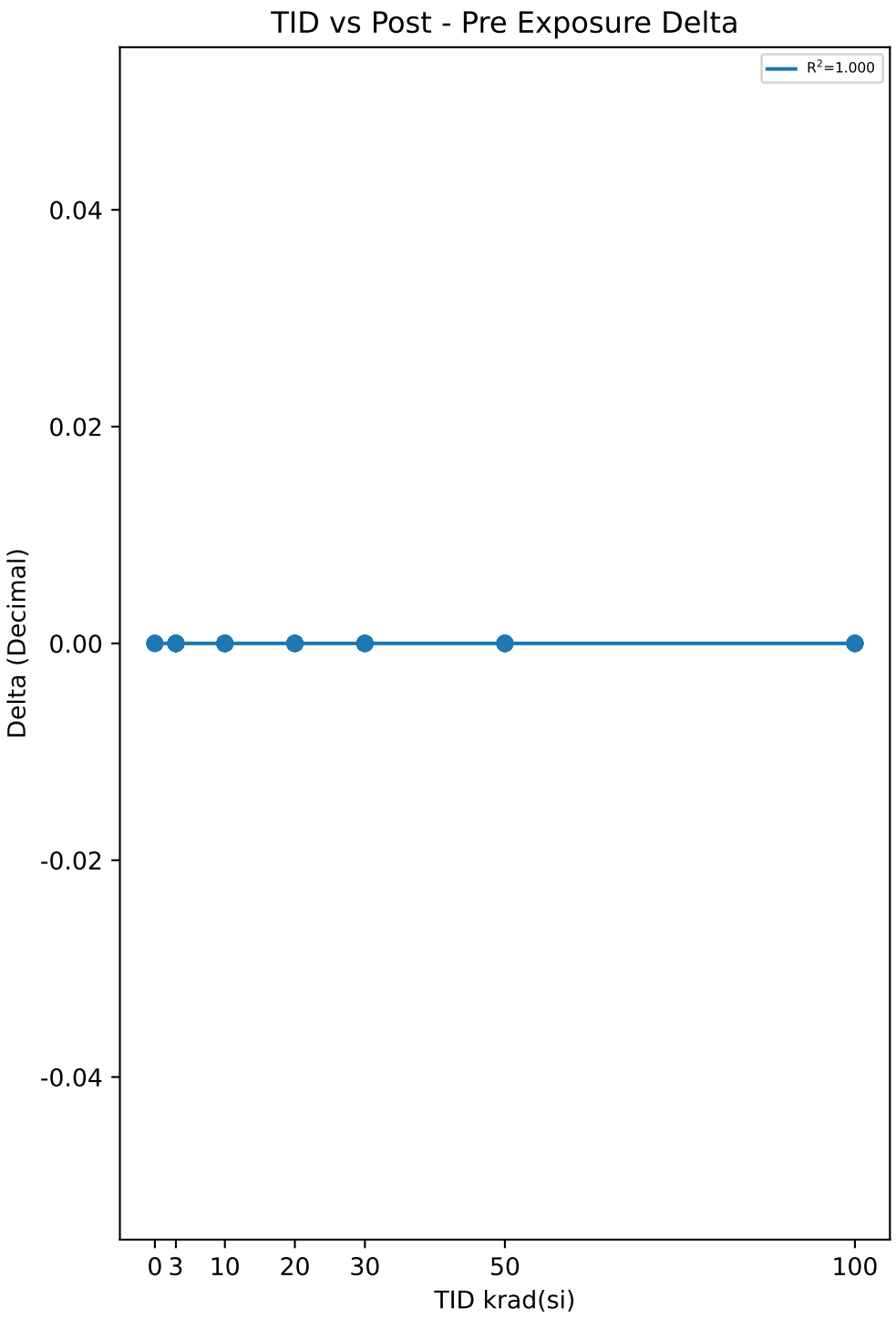
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	1000	1000	0
51	3	Biased	1000	1000	0
52	3	Biased	1000	1000	0
53	3	Biased	1000	1000	0
54	3	Biased	1000	1000	0
55	3	Unbiased	1000	1000	0
56	3	Unbiased	1000	1000	0
57	3	Unbiased	1000	1000	0
58	3	Unbiased	1000	1000	0
59	3	Unbiased	1000	1000	0
60	10	Biased	1000	1000	0
61	10	Biased	1000	1000	0
62	10	Biased	1000	1000	0
63	10	Biased	1000	1000	0
64	10	Biased	1000	1000	0
65	10	Unbiased	1000	1000	0
66	10	Unbiased	1000	1000	0
67	10	Unbiased	1000	1000	0
68	10	Unbiased	1000	1000	0
69	10	Unbiased	1000	1000	0
100	20	Biased	1000	1000	0
200	20	Biased	1000	1000	0
300	20	Biased	1000	1000	0
400	20	Biased	1000	1000	0
500	20	Biased	1000	1000	0
600	20	Unbiased	1000	1000	0
700	20	Unbiased	1000	1000	0
800	20	Unbiased	1000	1000	0
900	20	Unbiased	1000	1000	0
1000	20	Unbiased	1000	1000	0
1100	30	Biased	1000	1000	0
1200	30	Biased	1000	1000	0
1300	30	Biased	1000	1000	0
1400	30	Biased	1000	1000	0
1500	30	Biased	1000	1000	0
1600	30	Unbiased	1000	1000	0
1700	30	Unbiased	1000	1000	0
1800	30	Unbiased	1000	1000	0
1900	30	Unbiased	1000	1000	0
2000	30	Unbiased	1000	1000	0
2100	50	Biased-84Hr-Anneal	1000	1000	0
2200	50	Biased-84Hr-Anneal	1000	1000	0
2300	50	Biased-84Hr-Anneal	1000	1000	0
2400	50	Biased-84Hr-Anneal	1000	1000	0
2500	50	Biased-84Hr-Anneal	1000	1000	0
2600	50	Unbiased	1000	1000	0
2700	50	Unbiased	1000	1000	0
2800	50	Unbiased	1000	1000	0
2900	50	Unbiased	1000	1000	0
3000	50	Unbiased	1000	1000	0
4000	100	Biased-168Hr-Anneal	1000	1000	0
4100	100	Biased-168Hr-Anneal	1000	1000	0
4200	100	Biased-168Hr-Anneal	1000	1000	0
4300	100	Biased-168Hr-Anneal	1000	1000	0
4400	100	Biased-168Hr-Anneal	1000	1000	0
4500	100	Unbiased-168Hr-Anneal	1000	1000	0
4600	100	Unbiased-168Hr-Anneal	1000	1000	0
4700	100	Unbiased-168Hr-Anneal	1000	1000	0
4800	100	Unbiased-168Hr-Anneal	1000	1000	0
4900	100	Unbiased-168Hr-Anneal	1000	1000	0
9300	0	CORRELATION	1000	1000	0
9400	0	CORRELATION	1000	1000	0
9500	0	CORRELATION	1000	1000	0
9600	0	CORRELATION	1000	1000	0
9700	0	CORRELATION	1000	1000	0

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	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
3	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
10	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
20	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
30	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
50	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
100	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

Device Test: 24.97 DUTYCYCLE|GNG_40dml/SYNC1/12//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE





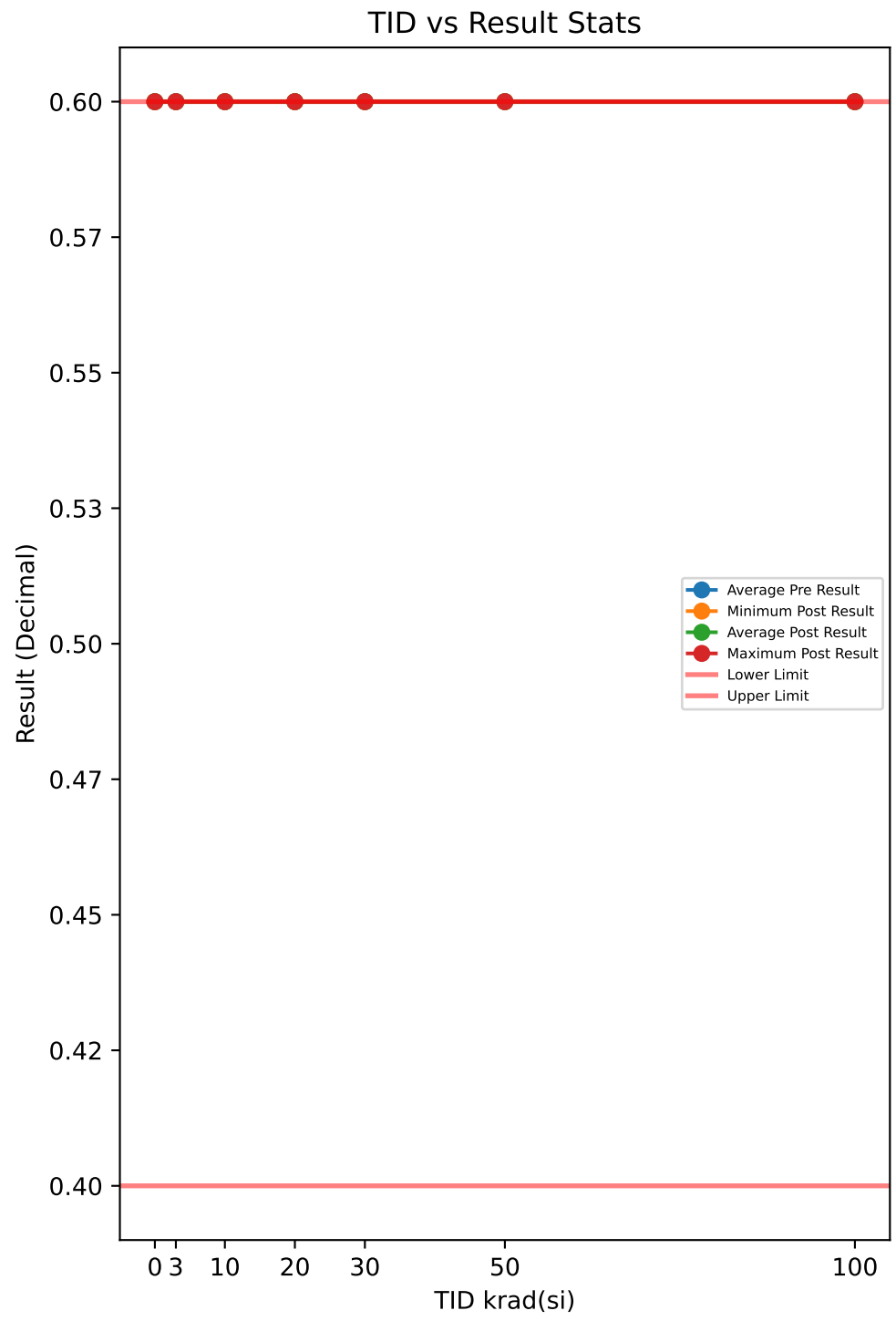
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

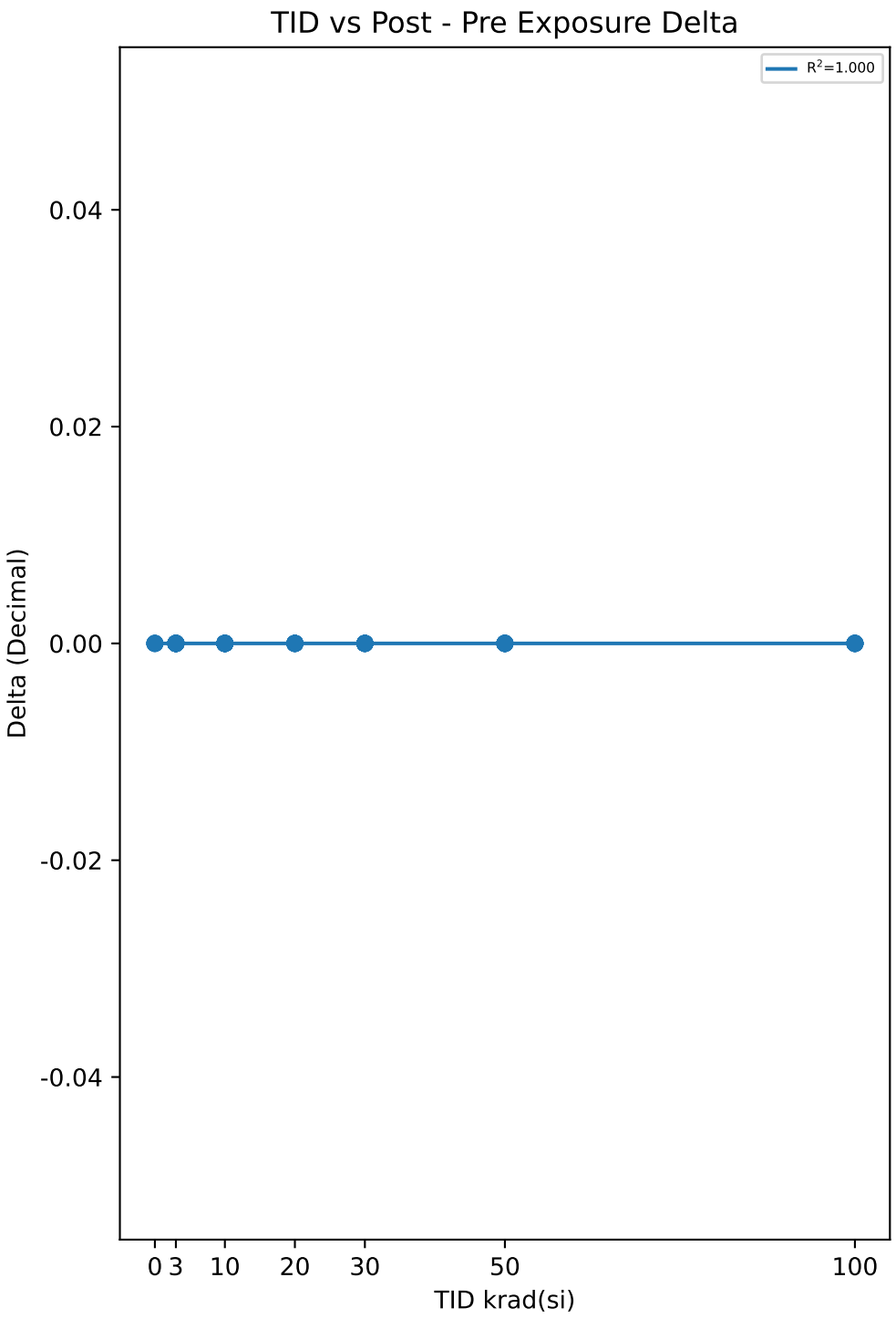
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.4	0.4	0
51	3	Biased	0.4	0.4	0
52	3	Biased	0.4	0.4	0
53	3	Biased	0.4	0.4	0
54	3	Biased	0.4	0.4	0
55	3	Unbiased	0.4	0.4	0
56	3	Unbiased	0.4	0.4	0
57	3	Unbiased	0.4	0.4	0
58	3	Unbiased	0.4	0.4	0
59	3	Unbiased	0.4	0.4	0
60	10	Biased	0.4	0.4	0
61	10	Biased	0.4	0.4	0
62	10	Biased	0.4	0.4	0
63	10	Biased	0.4	0.4	0
64	10	Biased	0.4	0.4	0
65	10	Unbiased	0.4	0.4	0
66	10	Unbiased	0.4	0.4	0
67	10	Unbiased	0.4	0.4	0
68	10	Unbiased	0.4	0.4	0
69	10	Unbiased	0.4	0.4	0
100	20	Biased	0.4	0.4	0
200	20	Biased	0.4	0.4	0
300	20	Biased	0.4	0.4	0
400	20	Biased	0.4	0.4	0
500	20	Biased	0.4	0.4	0
600	20	Unbiased	0.4	0.4	0
700	20	Unbiased	0.4	0.4	0
800	20	Unbiased	0.4	0.4	0
900	20	Unbiased	0.4	0.4	0
1000	20	Unbiased	0.4	0.4	0
1100	30	Biased	0.4	0.4	0
1200	30	Biased	0.4	0.4	0
1300	30	Biased	0.4	0.4	0
1400	30	Biased	0.4	0.4	0
1500	30	Biased	0.4	0.4	0
1600	30	Unbiased	0.4	0.4	0
1700	30	Unbiased	0.4	0.4	0
1800	30	Unbiased	0.4	0.4	0
1900	30	Unbiased	0.4	0.4	0
2000	30	Unbiased	0.4	0.4	0
2100	50	Biased-84Hr-Anneal	0.4	0.4	0
2200	50	Biased-84Hr-Anneal	0.4	0.4	0
2300	50	Biased-84Hr-Anneal	0.4	0.4	0
2400	50	Biased-84Hr-Anneal	0.4	0.4	0
2500	50	Biased-84Hr-Anneal	0.4	0.4	0
2600	50	Unbiased	0.4	0.4	0
2700	50	Unbiased	0.4	0.4	0
2800	50	Unbiased	0.4	0.4	0
2900	50	Unbiased	0.4	0.4	0
3000	50	Unbiased	0.4	0.4	0
4000	100	Biased-168Hr-Anneal	0.4	0.4	0
4100	100	Biased-168Hr-Anneal	0.4	0.4	0
4200	100	Biased-168Hr-Anneal	0.4	0.4	0
4300	100	Biased-168Hr-Anneal	0.4	0.4	0
4400	100	Biased-168Hr-Anneal	0.4	0.4	0
4500	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4600	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4700	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4800	100	Unbiased-168Hr-Anneal	0.4	0.4	0
4900	100	Unbiased-168Hr-Anneal	0.4	0.4	0
9300	0	CORRELATION	0.4	0.4	0
9400	0	CORRELATION	0.4	0.4	0
9500	0	CORRELATION	0.4	0.4	0
9600	0	CORRELATION	0.4	0.4	0
9700	0	CORRELATION	0.4	0.4	0

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
3	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
10	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
20	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
30	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
50	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
100	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

Device Test: 24.98 DUTYCYCLE|GNG_60dml/SYNC1/12//OPEN//@SYNC_IN_DUTY_CYCLE_RANGE





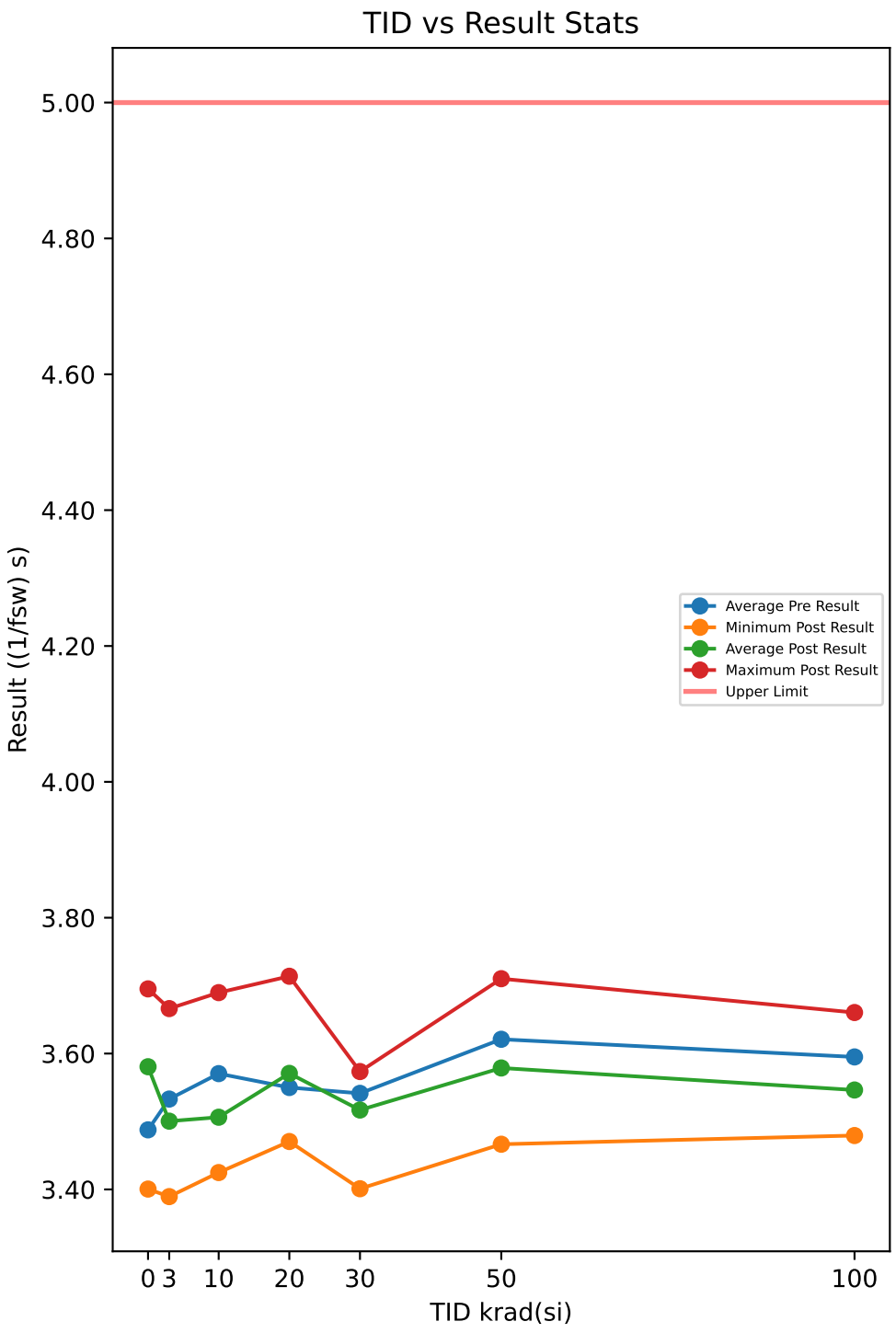
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

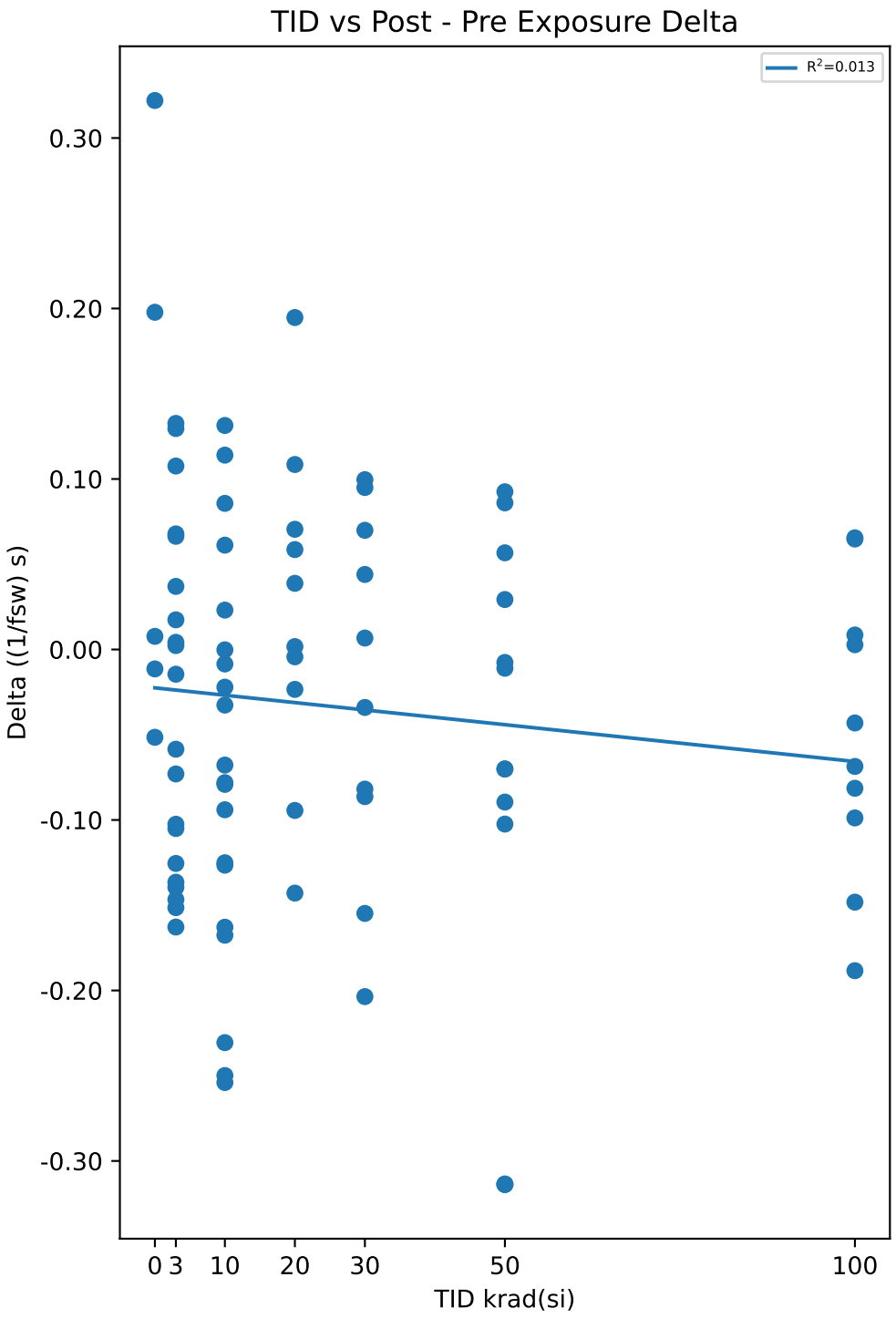
Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	0.6	0.6	0
51	3	Biased	0.6	0.6	0
52	3	Biased	0.6	0.6	0
53	3	Biased	0.6	0.6	0
54	3	Biased	0.6	0.6	0
55	3	Unbiased	0.6	0.6	0
56	3	Unbiased	0.6	0.6	0
57	3	Unbiased	0.6	0.6	0
58	3	Unbiased	0.6	0.6	0
59	3	Unbiased	0.6	0.6	0
60	10	Biased	0.6	0.6	0
61	10	Biased	0.6	0.6	0
62	10	Biased	0.6	0.6	0
63	10	Biased	0.6	0.6	0
64	10	Biased	0.6	0.6	0
65	10	Unbiased	0.6	0.6	0
66	10	Unbiased	0.6	0.6	0
67	10	Unbiased	0.6	0.6	0
68	10	Unbiased	0.6	0.6	0
69	10	Unbiased	0.6	0.6	0
100	20	Biased	0.6	0.6	0
200	20	Biased	0.6	0.6	0
300	20	Biased	0.6	0.6	0
400	20	Biased	0.6	0.6	0
500	20	Biased	0.6	0.6	0
600	20	Unbiased	0.6	0.6	0
700	20	Unbiased	0.6	0.6	0
800	20	Unbiased	0.6	0.6	0
900	20	Unbiased	0.6	0.6	0
1000	20	Unbiased	0.6	0.6	0
1100	30	Biased	0.6	0.6	0
1200	30	Biased	0.6	0.6	0
1300	30	Biased	0.6	0.6	0
1400	30	Biased	0.6	0.6	0
1500	30	Biased	0.6	0.6	0
1600	30	Unbiased	0.6	0.6	0
1700	30	Unbiased	0.6	0.6	0
1800	30	Unbiased	0.6	0.6	0
1900	30	Unbiased	0.6	0.6	0
2000	30	Unbiased	0.6	0.6	0
2100	50	Biased-84Hr-Anneal	0.6	0.6	0
2200	50	Biased-84Hr-Anneal	0.6	0.6	0
2300	50	Biased-84Hr-Anneal	0.6	0.6	0
2400	50	Biased-84Hr-Anneal	0.6	0.6	0
2500	50	Biased-84Hr-Anneal	0.6	0.6	0
2600	50	Unbiased	0.6	0.6	0
2700	50	Unbiased	0.6	0.6	0
2800	50	Unbiased	0.6	0.6	0
2900	50	Unbiased	0.6	0.6	0
3000	50	Unbiased	0.6	0.6	0
4000	100	Biased-168Hr-Anneal	0.6	0.6	0
4100	100	Biased-168Hr-Anneal	0.6	0.6	0
4200	100	Biased-168Hr-Anneal	0.6	0.6	0
4300	100	Biased-168Hr-Anneal	0.6	0.6	0
4400	100	Biased-168Hr-Anneal	0.6	0.6	0
4500	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4600	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4700	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4800	100	Unbiased-168Hr-Anneal	0.6	0.6	0
4900	100	Unbiased-168Hr-Anneal	0.6	0.6	0
9300	0	CORRELATION	0.6	0.6	0
9400	0	CORRELATION	0.6	0.6	0
9500	0	CORRELATION	0.6	0.6	0
9600	0	CORRELATION	0.6	0.6	0
9700	0	CORRELATION	0.6	0.6	0

Test Statistics (Decimal)

krad(si)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
3	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
10	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
20	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
30	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
50	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
100	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

Device Test: 24.99 TIMING|CLKDETECT/SYNC1/12//511k//@T_CLOCK_DET





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

Serial #	krad(si)	Exposure Conditions	Pre Result	Post Result	Delta
50	3	Biased	3.5998	3.5268	-0.073
51	3	Biased	3.4845	3.426	-0.0585
52	3	Biased	3.6357	3.489	-0.1467
53	3	Biased	3.5013	3.5055	0.0042
54	3	Biased	3.5586	3.6662	0.1076
55	3	Unbiased	3.5625	3.4111	-0.1514
56	3	Unbiased	3.3485	3.4781	0.1296
57	3	Unbiased	3.59	3.5755	-0.0145
58	3	Unbiased	3.4044	3.537	0.1326
59	3	Unbiased	3.4919	3.3894	-0.1025
60	10	Biased	3.604	3.6897	0.0857
61	10	Biased	3.4193	3.5507	0.1314
62	10	Biased	3.5136	3.481	-0.0326
63	10	Biased	3.564	3.4389	-0.1251
64	10	Biased	3.5924	3.4248	-0.1676
65	10	Unbiased	3.5978	3.5187	-0.0791
66	10	Unbiased	3.6484	3.5219	-0.1265
67	10	Unbiased	3.5943	3.4314	-0.1629
68	10	Unbiased	3.6082	3.5301	-0.0781
69	10	Unbiased	3.484	3.4755	-0.0085
100	20	Biased	3.6137	3.6842	0.0705
200	20	Biased	3.4484	3.5569	0.1085
300	20	Biased	3.5191	3.7138	0.1947
400	20	Biased	3.5635	3.6023	0.0388
500	20	Biased	3.5511	3.5528	0.0017
600	20	Unbiased	3.5773	3.573	-0.0043
700	20	Unbiased	3.4229	3.4815	0.0586
800	20	Unbiased	3.6272	3.4843	-0.1429
900	20	Unbiased	3.4939	3.4705	-0.0234
1000	20	Unbiased	3.6831	3.5887	-0.0944
1100	30	Biased	3.6511	3.4475	-0.2036
1200	30	Biased	3.4356	3.5352	0.0996
1300	30	Biased	3.6598	3.5735	-0.0863
1400	30	Biased	3.6325	3.5506	-0.0819
1500	30	Biased	3.5558	3.401	-0.1548
1600	30	Unbiased	3.4715	3.5414	0.0699
1700	30	Unbiased	3.5456	3.5523	0.0067
1800	30	Unbiased	3.4991	3.5431	0.044
1900	30	Unbiased	3.44	3.535	0.095
2000	30	Unbiased	3.5231	3.4891	-0.034
2100	50	Biased-84Hr-Anneal	3.7803	3.4665	-0.3138
2200	50	Biased-84Hr-Anneal	3.5041	3.5901	0.086
2300	50	Biased-84Hr-Anneal	3.5867	3.6434	0.0567
2400	50	Biased-84Hr-Anneal	3.5181	3.5474	0.0293
2500	50	Biased-84Hr-Anneal	3.6266	3.6156	-0.011
2600	50	Unbiased	3.5237	3.5161	-0.0076
2700	50	Unbiased	3.5248	3.6173	0.0925
2800	50	Unbiased	3.6559	3.5535	-0.1024
2900	50	Unbiased	3.7995	3.486	-0.3135
3000	50	Unbiased	3.6905	3.601	-0.0895
4000	100	Biased-168Hr-Anneal	3.6895	3.5011	-0.1884
4100	100	Biased-168Hr-Anneal	3.5949	3.6604	0.0655
4200	100	Biased-168Hr-Anneal	3.5469	3.5497	0.0028
4300	100	Biased-168Hr-Anneal	3.6041	3.6126	0.0085
4400	100	Biased-168Hr-Anneal	3.6514	3.57	-0.0814
4500	100	Unbiased-168Hr-Anneal	3.5647	3.4961	-0.0686
4600	100	Unbiased-168Hr-Anneal	3.751	3.6028	-0.1482
4700	100	Unbiased-168Hr-Anneal	3.5224	3.4793	-0.0431
4800	100	Unbiased-168Hr-Anneal	3.5784	3.4796	-0.0988
4900	100	Unbiased-168Hr-Anneal	3.4469	3.5117	0.0648
9300	0	CORRELATION	3.4236	3.6214	0.1978
9400	0	CORRELATION	3.4119	3.4005	-0.0114
9500	0	CORRELATION	3.6555	3.604	-0.0515
9600	0	CORRELATION	3.3732	3.6952	0.322
9700	0	CORRELATION	3.5742	3.5819	0.0077

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	3.3732	3.4877	3.6555	0.12104	3.4005	3.5806	3.6952	0.1093	-0.0515	0.09292	0.322	0.16006
3	3.3485	3.5177	3.6357	0.090107	3.3894	3.5005	3.6662	0.082765	-0.1514	-0.01726	0.1326	0.10899
10	3.4193	3.5626	3.6484	0.069444	3.4248	3.5063	3.6897	0.078141	-0.1676	-0.05633	0.1314	0.10146
20	3.4229	3.55	3.6831	0.081131	3.4705	3.5708	3.7138	0.082098	-0.1429	0.02078	0.1947	0.097281
30	3.4356	3.5414	3.6598	0.083708	3.401	3.5169	3.5735	0.054328	-0.2036	-0.02454	0.0996	0.10568
50	3.5041	3.621	3.7995	0.10928	3.4665	3.5637	3.6434	0.059747	-0.3138	-0.05733	0.0925	0.15003
100	3.4469	3.595	3.751	0.086437	3.4793	3.5463	3.6604	0.063138	-0.1884	-0.04869	0.0655	0.085161

6 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision * (February 2026) to Revision A (March 2026)	Page
• Updated Product Description section to match datasheet description	2

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