

TPS7H6025-SEP Total Ionizing Dose (TID) Report



ABSTRACT

This report discusses the results of the total ionizing dose (TID) testing for the Texas Instruments TPS7H6025-SEP radiation hardness-assured 1.3A, 2.5A, half bridge gate driver. The study was done to determine TID effects at 50krad (Si) High Dose Rate (HDR). The results show that all samples pass within device specified test limits.

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1 Device Information

1.1 Product Description

The TPS7H6025-SEP is a 22V radiation-hardness-assured, high voltage gate driver for space applications. The TPS7H6025-SEP is designed for high frequency, high efficiency applications. The driver features adjustable dead time capability, small 30ns propagation delay and 5.5ns high-side and low-side matching. This part also includes internal high-side and low-side LDOs which specifies a drive voltage of 5V regardless of supply voltage. The TPS7H6025-SEP is packaged in a plastic 56-pin HTSSOP DCA package.

1.2 Device Details

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

Table 1-1. Device and Exposure Details

| RHA TID Details: Up to 50krad(Si) | |
|--|--|
| TI Part Number | TPS7H6025-SEP |
| Device Function | Half Bridge Gate Driver |
| Die Name | RTPS7H6005ASEP |
| Package | 56-pin HTSSOP DCA |
| Technology | LBC7 (250nm Linear BiCMOS) |
| Quantity tested | HDR : <ul style="list-style-type: none"> • 5 biased and 5 unbiased units at 20krad(Si) levels • 5 biased and 5 unbiased units at 30krad(Si) levels • 5 biased and 5 unbiased units at 50krad(Si) levels • One control unit |
| Lot Accept/Reject | Passes 50krad(Si); no observed fails |
| HDR Radiation Facility | Texas Instruments CLAB Dallas, Texas |
| Die Lot Number and Assembly Lot Number | 4095498TI1 / 4576577ML4 |
| HDR Dose Rate | 173.3 rad (Si) / s |
| HDR Radiation Source | Gammacell 220 Excel (GC-220E) Co-60 |
| Irradiation and Test Temperature | Ambient, room temperature controlled to 25°C ±6°C per MIL-STD-883 and MIL-STD-750 |

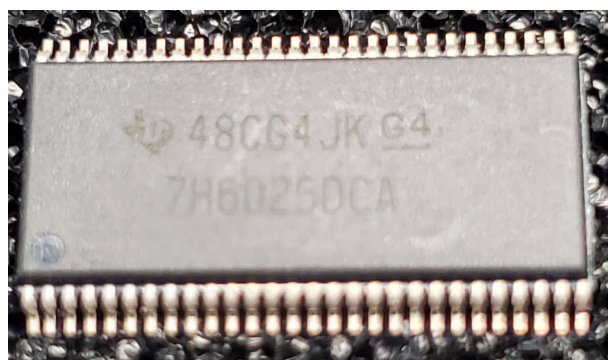


Figure 1-1. Device Used in Exposure (Front)

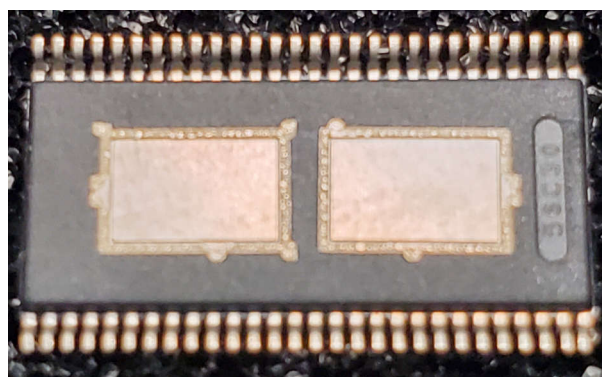


Figure 1-2. Device Used in Exposure (Back)

2 Total Dose Test Setup

2.1 Test Overview

The TPS7H6025-SEP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, condition A was used. For this test, the product was irradiated up to the target radiation level, and then put through full electrical parametric testing on the production Automated Test Equipment (ATE). All devices remained functional passing all parametric test limits.

2.2 Test Description and Facilities

The TPS7H6025-SEP HDR exposure was performed on biased devices in a Co-60 Gammacell at the TI Dallas C-Lab facility in Dallas, Texas. The unattenuated dose rate of this cell is 169.2rad (Si) / s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and post-radiation electrical testing at TI's Dallas Forest Lane facility. Test limit guard bands are set within SMD electrical test limits.

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

2.3 Test Setup Details

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

2.3.1 Unbiased

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

2.3.2 Biased

Table 2-1. DUT Power Supply Bias and V_{out} Measurements

| Power Supply Bias | | | | |
|-----------------------------------|----------------|-------------------|---------|---|
| | Edge Connector | BUS | Typical | Comments |
| Power Supply | BUS A | VIN | 14VDC | 14VDC - Fixed power supply |
| | BUS D | BOOT | 14VDC | 14VDCWRTSW - Floating power supply WRT to SW |
| | BUS B | ASW | ≤ 150V | Increase HV gradually. Recommend using safety interlock HV protection when working with high voltage. |
| DUT V _{out} Measurements | | | | |
| VOUT Test Points | TP_PGOOD | ON | 5V | LS is ON |
| | TP_LO | PWM_LI | 1.8V | PWM mode |
| | TP_HO | PWM_LI DC WRT ASW | 3.51V | PWM mode |
| | TP_SW | SW = PSW = ASW | ≤ 150V | SW = PSW = ASW |
| | PWM_LI | DUT Mon | 1.85V | DUT monitor edge connector |

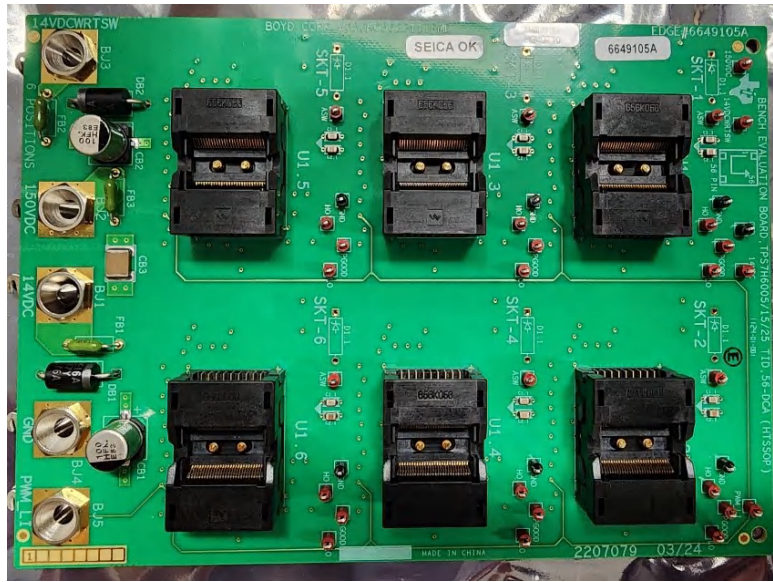


Figure 2-1. HDR TID Hardware

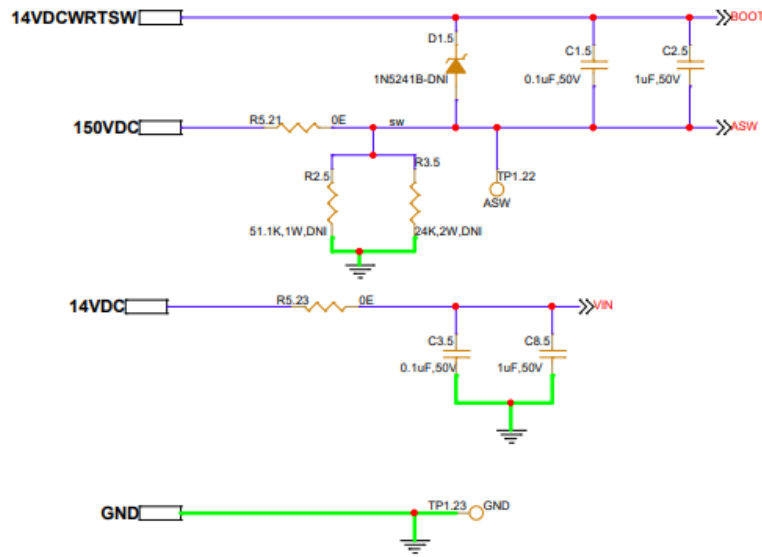


Figure 2-2. Supplies and GND HDR TID Bias Diagram

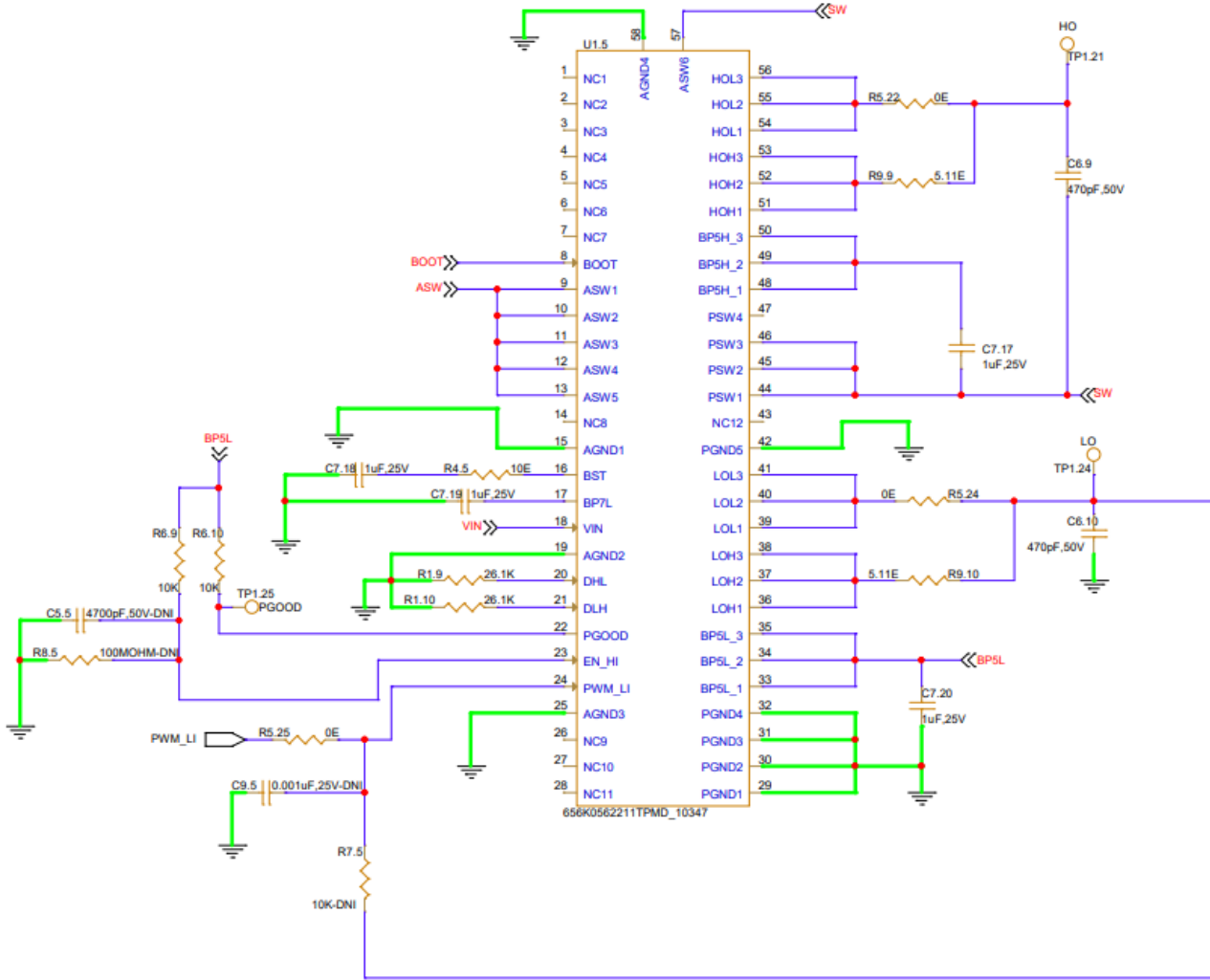


Figure 2-3. HDR TID Bias Diagram

2.4 Test Configuration and Conditions

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

Table 2-2. HDR Biased Device Information

| Total Samples: 15 units + 1 control | | | |
|-------------------------------------|-------------------------|-------------------------|-------------------------|
| Exposure Levels: | | | |
| Control | 20krad (Si) | 30krad (Si) | 50krad (Si) |
| 1 | 521, 522, 523, 524, 525 | 531, 532, 533, 534, 535 | 551, 552, 553, 554, 555 |

Table 2-3. HDR Unbiased Device Information

| Total Samples: 15 units + 1 control | | | |
|-------------------------------------|-------------------------|-------------------------|-------------------------|
| Exposure Levels: | | | |
| Control | 20krad (Si) | 30krad (Si) | 50krad (Si) |
| 1 | 321, 322, 323, 324, 325 | 331, 332, 333, 334, 335 | 351, 352, 353, 354, 355 |

3 TID Characterization Test Results

3.1 TID Characterization Results Summary

The results show that all TPS7H6025-SEP devices were fully functional and within specification limits up to 50krad (Si) HDR. Overall the TPS7H6025-SEP show a strong degree of hardness to TID HDR exposure levels at 50krad (Si) under bias and unbiased conditions. Performance is measured based on the difference between pre- and post-irradiation with respect to SMD electrical minimum and maximum specification. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each dose level for both biased and unbiased. (see [Section 3.2](#) for the electrical parameters). Note that test numbers are listed only for parameters tested post-TID.

See [Appendix: HDR TID Report](#) for HDR report.

3.2 Data Sheet Electrical Parameters

Specifications are at ambient temperature $T_A = 25^\circ\text{C}$, $V_{IN} = 10\text{V}$ to 14V , $V_{BP5L} = V_{BP5H} = 5\text{V}$, and no load on LOH, LOL, HOH, and HOL (unless otherwise noted).

Table 3-1. TPS7H6025-SEP Data Sheet Electrical Parameters

| Parameter | | Test Conditions | | MIN | MAX | UNIT | Test Number |
|--------------------------------|---------------------------------------|---|----------------------------|------|-------|------|---|
| SUPPLY CURRENTS | | | | | | | |
| I_{QLS} | Low-side quiescent current | $V_{IN} = 12\text{V}$, $BOOT = 10\text{V}$ | MODE = PWM, EN = 0V | | 6.8 | mA | 35.0, 36.0, 37.0 |
| | | | MODE = IIM LI = HI = 0V | | 8 | | 35.2, 36.2, 37.2 |
| I_{QHS} | High-side quiescent current | $V_{IN} = 12\text{V}$, $BOOT = 10\text{V}$ | MODE = PWM EN = 0V | | 6.3 | mA | 35.1, 36.1, 37.1 |
| | | | MODE = IIM LI = HI = 0V | | 6.3 | | 35.3, 36.3, 37.3 |
| I_{OP_LS} | Low-side operating current | MODE = PWM, no load for HOL and HOH | f = 500kHz | | 9 | mA | 35.6, 36.6, 37.6 |
| | | | f = 1MHz | | 11 | | 35.8, 36.8, 37.8 |
| | | | f = 2MHz | | 16 | | 35.10, 36.10, 37.10 |
| | | | f = 5MHz | | 30 | | 35.12, 36.12, 37.12 |
| | | MODE = IIM, no load for HOL and HOH | f = 500kHz | | 9 | | 35.14, 36.14, 37.14 |
| | | | f = 1MHz | | 12 | | 35.16, 36.16, 37.16 |
| | | | f = 2MHz | | 17 | | 35.18, 36.18, 37.18 |
| | | | f = 5MHz | | 30 | | 35.20, 36.20, 37.20 |
| I_{OP_HS} | High-side operating current | MODE = PWM, no load for HOL and HOH | f = 500kHz | | 6.5 | mA | 35.7, 36.7, 37.7 |
| | | | f = 1MHz | | 8 | | 35.9, 36.9, 37.9 |
| | | | f = 2MHz | | 10.5 | | 35.11, 36.11, 37.11 |
| | | | f = 5MHz | | 19 | | 35.13, 36.13, 37.13 |
| | | MODE = IIM, no load for HOL and HOH | f = 500kHz | | 6.5 | | 35.15, 36.15, 37.15 |
| | | | f = 1MHz | | 8 | | 35.17, 36.17, 37.17 |
| | | | f = 2MHz | | 10.5 | | 35.19, 36.19, 37.19 |
| | | | f = 5MHz | | 15 | | 35.21, 36.21, 37.21 |
| GATE DRIVER | | | | | | | |
| V_{OL} | Low-level output voltage | $I_{OL} = 100\text{mA}$ | | | 0.15 | V | 45.0, 46.0, 47.0 |
| $BP5x - V_{OH}$ | High-level output voltage | $I_{OH} = 100\text{mA}$ | | | 0.3 | V | 45.2, 46.2, 47.2 |
| I_{OH} | Peak source current | HOH, LOH = 0V, BP5x = 5V | | 0.7 | 2.3 | A | 50.0, 50.1, 51.0, 51.1, 52.0, 52.1 |
| I_{OL} | Peak sink current | HOL, LOL = 5V, BP5x = 5V | | 1.6 | 4.6 | A | 50.2, 51.2, 52.2 |
| INTERNAL REGULATORS | | | | | | | |
| V_{BP5L} | Low-side 5V regulator output voltage | $C_{BP5L} = 1\mu\text{F}$ | | 4.75 | 5.175 | V | 60.1, 60.4, 60.7, 60.10, 60.13, 60.16, 60.19, 60.22, 61.1, 61.4, 61.7, 61.10, 61.13, 61.16, 61.19, 61.22, 62.1, 62.4, 62.7, 62.10, 62.13, 62.16, 62.19, 62.22 |
| V_{BP5H} | High-side 5V regulator output voltage | $C_{BP5H} = 1\mu\text{F}$ | | 4.75 | 5.175 | V | 60.2, 60.5, 60.8, 60.11, 60.14, 60.17, 60.20, 60.23, 61.2, 61.5, 61.8, 61.11, 61.14, 61.17, 61.20, 61.23, 62.2, 62.5, 62.8, 62.11, 62.14, 62.17, 62.20, 62.23 |
| V_{BP7L} | 7V regulator output voltage | $C_{BP7L} = 1\mu\text{F}$ | | 6.65 | 7.35 | V | 60.0, 60.3, 60.6, 60.9, 60.12, 60.15, 60.18, 60.21, 61.0, 61.3, 61.6, 61.9, 61.12, 61.15, 61.18, 61.21, 61.23, 62.0, 62.3, 62.6, 62.9, 62.12, 62.15, 62.18, 62.21 |
| UNDERVOLTAGE PROTECTION | | | | | | | |
| $BP5H_R$ | BP5H UVLO rising threshold | $C_{BP5H} = 1\mu\text{F}$ | | 4 | 4.5 | V | |
| $BP5H_F$ | BP5H UVLO falling threshold | $C_{BP5H} = 1\mu\text{F}$ | | 3.8 | 4.3 | V | |
| $BP5L_R$ | BP5L UVLO rising threshold | $C_{BP5L} = 1\mu\text{F}$ | | 4 | 4.5 | V | |
| $BP5L_F$ | BP5L UVLO falling threshold | $C_{BP5L} = 1\mu\text{F}$ | | 3.8 | 4.3 | V | |

Table 3-1. TPS7H6025-SEP Data Sheet Electrical Parameters (continued)

| Parameter | | Test Conditions | MIN | MAX | UNIT | Test Number | |
|-------------------------------|---|--|--------------|------|-------|------------------------------------|---|
| BP7L _R | BP7L UVLO rising threshold | C _{BP7L} = 1μF | 6.2 | 6.8 | V | | |
| BP7L _F | BP7L UVLO falling threshold | C _{BP7L} = 1μF | 5.9 | 6.5 | V | | |
| VIN _R | VIN UVLO rising threshold | | 8 | 9 | V | 70.0 | |
| VIN _F | VIN UVLO falling threshold | | 7.5 | 8.5 | V | 70.1 | |
| BOOT _R | BOOT UVLO rising threshold | | 6.6 | 7.4 | V | 75.0 | |
| BOOT _F | BOOT UVLO falling threshold | | 6.2 | 7 | V | 75.1 | |
| INPUT PINS | | | | | | | |
| V _{IR} | Input rising edge threshold | | 1.80 | 2.65 | V | 90.0, 91.0, 92.0, 90.3, 91.3, 92.3 | |
| V _{IF} | Input falling edge threshold | | 1.15 | 1.85 | V | 90.1, 91.1, 92.1, 90.4, 91.4, 92.4 | |
| R _{PD} | Input pull-down resistance | V = 2.15V applied at input (EN_HI or PWM_LI) | 100 | 400 | kΩ | 90.6, 90.7, 91.6, 91.7, 92.6, 92.7 | |
| PROGRAMMABLE DEAD TIME | | | | | | | |
| T _{DLH} | LO off to HO on dead time | MODE = PWM, LO falling to HO rising (90% to 10%), f ≤ 2MHz | RLH = 3.32kΩ | 0 | 10 | ns | 95.0, 95.5, 95.10, 96.0, 96.5, 96.10, 97.0, 97.5, 97.10 |
| | | | RLH = 11.8kΩ | 8 | 15.5 | | 95.1, 95.6, 95.11, 96.1, 96.6, 96.11, 97.1, 97.6, 97.11 |
| | | | RLH = 21kΩ | 15.5 | 24 | | 95.2, 95.7, 95.12, 96.2, 96.7, 96.12, 97.2, 97.7, 97.12 |
| | | | RLH = 52.3kΩ | 36 | 59 | | 95.3, 95.8, 95.13, 96.3, 96.8, 96.13, 97.3, 97.8, 97.13 |
| | | | RLH = 105kΩ | 74 | 113.5 | | 95.4, 95.9, 95.14, 96.4, 96.9, 96.14, 97.4, 97.9, 97.14 |
| T _{DHL} | HO off to LO on dead time | MODE = PWM, HO falling to LO rising (90% to 10%), f ≤ 2MHz | RHL = 7.87kΩ | 0 | 10 | ns | 95.19, 95.24, 95.29, 96.19, 96.24, 96.29, 97.19, 97.24, 97.29 |
| | | | RHL = 13.3kΩ | 6 | 15 | | 95.20, 95.25, 95.30, 96.20, 96.25, 96.30, 97.20, 97.25, 97.30 |
| | | | RHL = 23.7kΩ | 16 | 24.5 | | 95.21, 95.26, 95.31, 96.21, 96.26, 96.31, 97.21, 97.26, 97.31 |
| | | | RHL = 57.6kΩ | 44 | 61 | | 95.22, 95.27, 95.32, 96.22, 96.27, 96.32, 97.22, 97.27, 97.32 |
| | | | RHL = 113kΩ | 81 | 125 | | 95.23, 95.28, 95.33, 96.23, 96.28, 96.33, 97.23, 97.28, 97.33 |
| BOOTSTRAP DIODE SWITCH | | | | | | | |
| | Bootstrap diode switch parallel resistance | I _{BST_SW} = 1mA | 0.8 | 1.2 | kΩ | 100.1, 101.1, 102.1 | |
| POWER GOOD | | | | | | | |
| | Logic-low output | I _{FLT} = 1mA | | 0.4 | V | 105.0, 106.0, 107.0 | |
| | PGOOD internal resistance | BP5L = 5V, BP7L = 7V, VIN = 12V | 0.7 | 1.9 | MΩ | 105.2, 106.2, 107.2 | |
| | Minimum BP5L voltage for valid PGOOD output | | | 2.85 | V | 105.1, 106.1, 107.1 | |

Table 3-2. TPS7H6025-SEP Switching Characteristics

| Parameter | | Test Conditions | | MIN | MAX | UNIT | Test Number |
|-------------------------|--------------------------------------|-------------------------|----------------------------|-----|-----|------|---|
| t _{LPHL} | LO turnoff propagation delay | MODE = PWM | PWM rising to LOL falling | | 48 | ns | 110.0, 111.0, 112.0 |
| | | MODE = IIM | LI falling to LOL falling | | 38 | ns | 110.3, 110.7, 111.3, 111.7, 112.3, 112.7 |
| t _{LPLH} | LO turnon propagation delay | MODE = IIM | LI rising to LOH rising | | 38 | ns | 110.2, 110.6, 111.2, 111.6, 112.2, 112.6 |
| t _{HPhL} | HO turnoff propagation delay | MODE = PWM | PWM falling to HOL falling | | 50 | ns | 110.1, 111.1, 112.1 |
| | | MODE = IIM | HI falling to HOL falling | | 40 | | 110.5, 110.9, 111.5, 111.9, 112.5, 112.9 |
| t _{HPLH} | HO turnon propagation delay | MODE = IIM | HI rising to HOH rising | | 40 | ns | 110.4, 110.8, 111.4, 111.8, 112.4, 112.8 |
| t _{MON} | Delay matching LO on and HO off | MODE = IIM | | | 12 | ns | 110.12, 111.12, 112.12 |
| t _{MOFF} | Delay matching LO off and HO on | MODE = IIM | | | 4 | ns | 110.11, 110.13, 111.11, 111.13, 112.11, 112.13 |
| t _{HRC} | HO rise time | C _L = 1000pF | 10% to 90% | | 7.5 | ns | 115.0, 116.0, 117.0 |
| t _{LRC} | LO rise time | | | | 7.5 | ns | 115.2, 116.2, 117.2 |
| t _{HFC} | HO fall time | | 90% to 10% | | 5.5 | ns | 115.1, 116.1, 117.1 |
| t _{LFC} | LO fall time | | | | 5.5 | ns | 115.3, 116.3, 117.3 |
| t _{PW_IIM} | Minimum input pulse width (turn-on) | MODE = IIM | | | 8 | ns | 120.0, 120.2, 120.4, 121.0, 121.2, 121.4, 122.0, 122.2, 122.4 |
| t _{PW_IIM_OFF} | Minimum input pulse width (turn-off) | MODE = IIM | | | 12 | ns | 120.1, 120.3, 120.5, 121.1, 121.3, 121.5, 122.1, 122.3, 122.5 |

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H6005-SP Radiation-Hardness-Assured 200-V, 1.3A, 2.5A, Half-Bridge GaN FET Gate Driver](#), data sheet.
- Texas Instruments, [TPS7H6005EVM-CVAL Evaluation Module User's Guide](#), EVM user's guide.

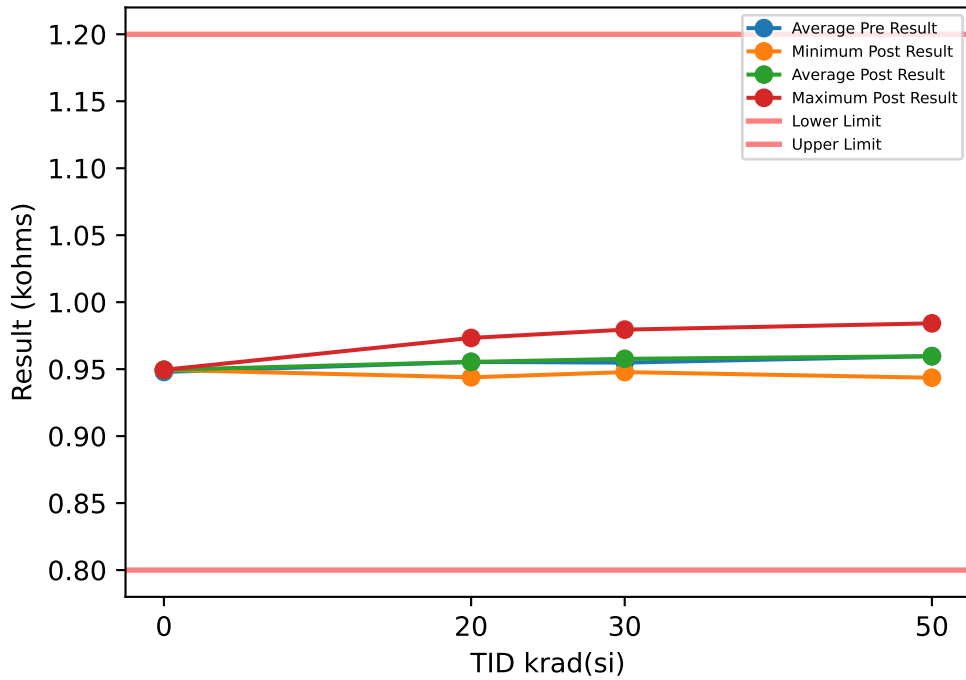
4.2 Reference Documents

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

A Appendix: HDR TID Report

Device Test: 100.1 R_BST_SW_PARALLEL(Bootstrap Diode Switch Parallel Resistance VIN_10V)

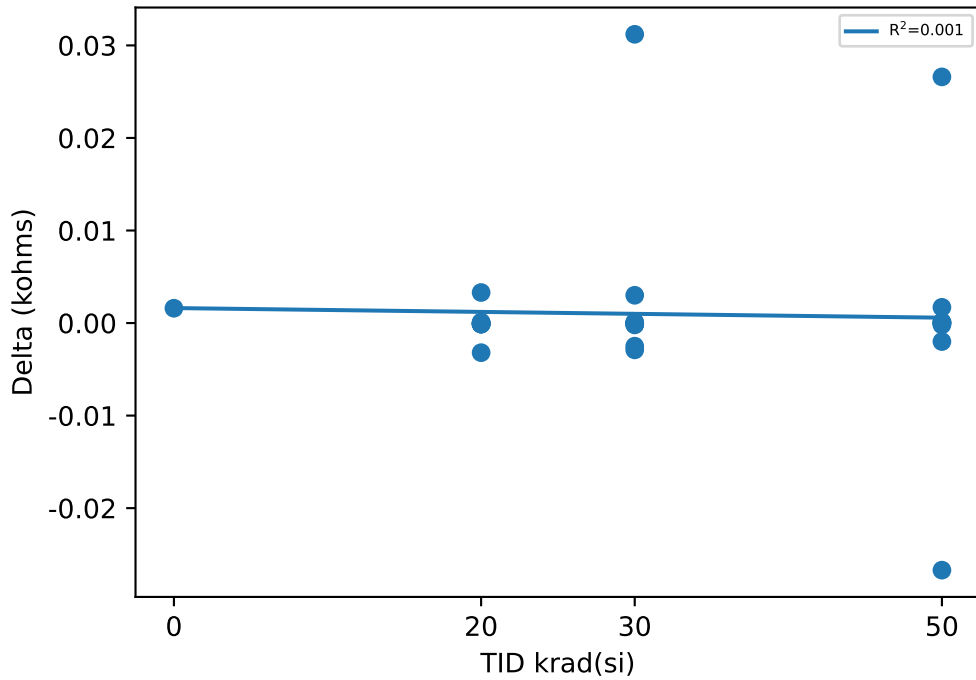
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (kohms))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.9479 | 0.9495 | 0.0016 |
| 321 | 20 | HDR unbiased | 0.9549 | 0.9548 | -0.0001 |
| 322 | 20 | HDR unbiased | 0.9608 | 0.9607 | -0.0001 |
| 323 | 20 | HDR unbiased | 0.9557 | 0.9557 | 0 |
| 324 | 20 | HDR unbiased | 0.9734 | 0.9733 | -0.0001 |
| 325 | 20 | HDR unbiased | 0.9722 | 0.9722 | 0 |
| 331 | 30 | HDR unbiased | 0.9595 | 0.9594 | -0.0001 |
| 332 | 30 | HDR unbiased | 0.963 | 0.9629 | -0.0001 |
| 333 | 30 | HDR unbiased | 0.9596 | 0.9597 | 0.0001 |
| 334 | 30 | HDR unbiased | 0.9608 | 0.9608 | 0 |
| 335 | 30 | HDR unbiased | 0.9584 | 0.9582 | -0.0002 |
| 351 | 50 | HDR unbiased | 0.9809 | 0.9542 | -0.0267 |
| 352 | 50 | HDR unbiased | 0.9844 | 0.9842 | -0.0002 |
| 353 | 50 | HDR unbiased | 0.9543 | 0.9809 | 0.0266 |
| 354 | 50 | HDR unbiased | 0.9701 | 0.9718 | 0.0017 |
| 355 | 50 | HDR unbiased | 0.9719 | 0.9699 | -0.002 |
| 521 | 20 | HDR biased | 0.9499 | 0.9498 | -0.0001 |
| 522 | 20 | HDR biased | 0.9496 | 0.9497 | 0.0001 |
| 523 | 20 | HDR biased | 0.9467 | 0.9466 | -0.0001 |
| 524 | 20 | HDR biased | 0.9439 | 0.9472 | 0.0033 |
| 525 | 20 | HDR biased | 0.9471 | 0.9439 | -0.0032 |
| 531 | 30 | HDR biased | 0.9516 | 0.9487 | -0.0029 |
| 532 | 30 | HDR biased | 0.9483 | 0.9795 | 0.0312 |
| 533 | 30 | HDR biased | 0.9509 | 0.9484 | -0.0025 |
| 534 | 30 | HDR biased | 0.9478 | 0.9478 | 0 |
| 535 | 30 | HDR biased | 0.9487 | 0.9517 | 0.003 |
| 551 | 50 | HDR biased | 0.9467 | 0.9467 | 0 |
| 552 | 50 | HDR biased | 0.9466 | 0.9466 | 0 |
| 553 | 50 | HDR biased | 0.9475 | 0.9476 | 0.0001 |
| 554 | 50 | HDR biased | 0.9435 | 0.9436 | 0.0001 |
| 555 | 50 | HDR biased | 0.9513 | 0.9513 | 0 |

TID vs Post - Pre Exposure Delta

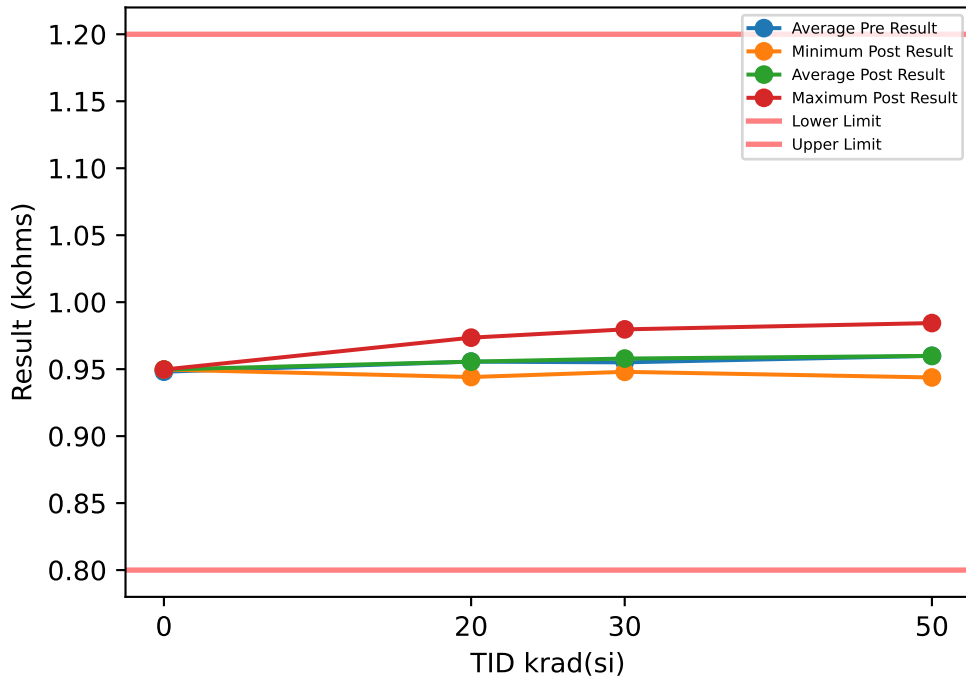


Test Statistics (kohms)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.9479 | 0.9479 | 0.9479 | | 0.9495 | 0.9495 | 0.9495 | | 0.0016 | 0.0016 | 0.0016 | |
| 20 | 0.9439 | 0.95542 | 0.9734 | 0.010416 | 0.9439 | 0.95539 | 0.9733 | 0.010392 | -0.0032 | -3e-05 | 0.0033 | 0.0015341 |
| 30 | 0.9478 | 0.95486 | 0.963 | 0.005918 | 0.9478 | 0.95771 | 0.9795 | 0.0095483 | -0.0029 | 0.00285 | 0.0312 | 0.010088 |
| 50 | 0.9435 | 0.95972 | 0.9844 | 0.015521 | 0.9436 | 0.95968 | 0.9842 | 0.015446 | -0.0267 | -4e-05 | 0.0266 | 0.012594 |

Device Test: 101.1 R_BST_SW_PARALLEL(Bootstrap Diode Switch Parallel Resistance VIN_12V)

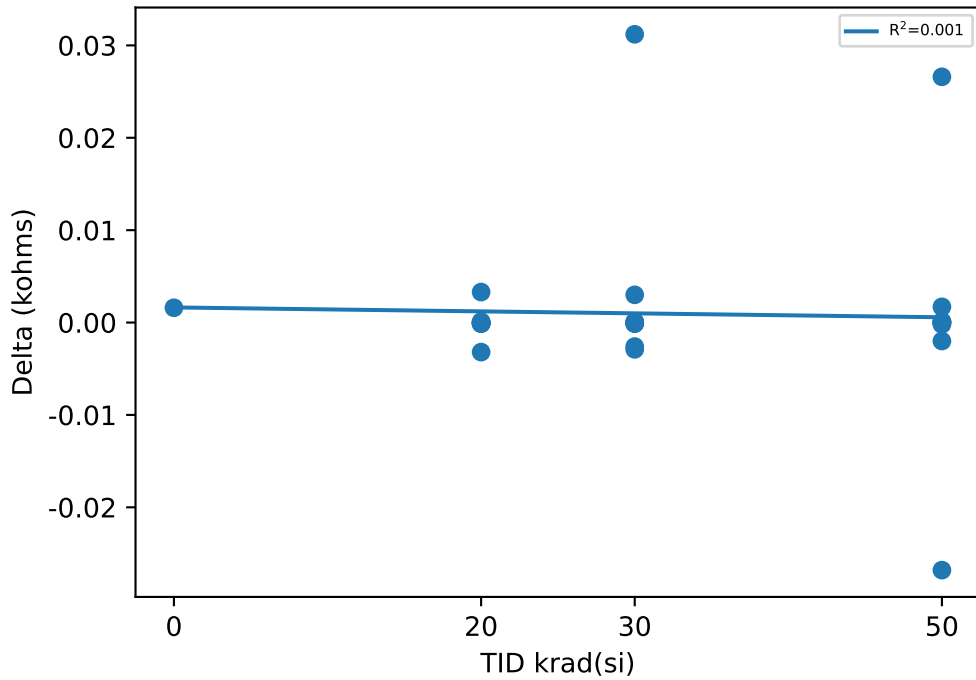
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (kohms))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.9481 | 0.9497 | 0.0016 |
| 321 | 20 | HDR unbiased | 0.9551 | 0.955 | -0.0001 |
| 322 | 20 | HDR unbiased | 0.961 | 0.9609 | -0.0001 |
| 323 | 20 | HDR unbiased | 0.9559 | 0.9559 | 0 |
| 324 | 20 | HDR unbiased | 0.9736 | 0.9735 | -0.0001 |
| 325 | 20 | HDR unbiased | 0.9724 | 0.9724 | 0 |
| 331 | 30 | HDR unbiased | 0.9597 | 0.9596 | -0.0001 |
| 332 | 30 | HDR unbiased | 0.9632 | 0.9631 | -0.0001 |
| 333 | 30 | HDR unbiased | 0.9598 | 0.9599 | 0.0001 |
| 334 | 30 | HDR unbiased | 0.961 | 0.961 | 0 |
| 335 | 30 | HDR unbiased | 0.9586 | 0.9585 | -0.0001 |
| 351 | 50 | HDR unbiased | 0.9812 | 0.9544 | -0.0268 |
| 352 | 50 | HDR unbiased | 0.9846 | 0.9844 | -0.0002 |
| 353 | 50 | HDR unbiased | 0.9545 | 0.9811 | 0.0266 |
| 354 | 50 | HDR unbiased | 0.9703 | 0.972 | 0.0017 |
| 355 | 50 | HDR unbiased | 0.9722 | 0.9702 | -0.002 |
| 521 | 20 | HDR biased | 0.9501 | 0.95 | -0.0001 |
| 522 | 20 | HDR biased | 0.9498 | 0.9499 | 0.0001 |
| 523 | 20 | HDR biased | 0.9469 | 0.9469 | 0 |
| 524 | 20 | HDR biased | 0.9441 | 0.9474 | 0.0033 |
| 525 | 20 | HDR biased | 0.9473 | 0.9441 | -0.0032 |
| 531 | 30 | HDR biased | 0.9518 | 0.9489 | -0.0029 |
| 532 | 30 | HDR biased | 0.9485 | 0.9797 | 0.0312 |
| 533 | 30 | HDR biased | 0.9511 | 0.9485 | -0.0026 |
| 534 | 30 | HDR biased | 0.948 | 0.948 | 0 |
| 535 | 30 | HDR biased | 0.9489 | 0.9519 | 0.003 |
| 551 | 50 | HDR biased | 0.9469 | 0.9469 | 0 |
| 552 | 50 | HDR biased | 0.9468 | 0.9468 | 0 |
| 553 | 50 | HDR biased | 0.9477 | 0.9478 | 0.0001 |
| 554 | 50 | HDR biased | 0.9437 | 0.9438 | 0.0001 |
| 555 | 50 | HDR biased | 0.9515 | 0.9515 | 0 |

TID vs Post - Pre Exposure Delta

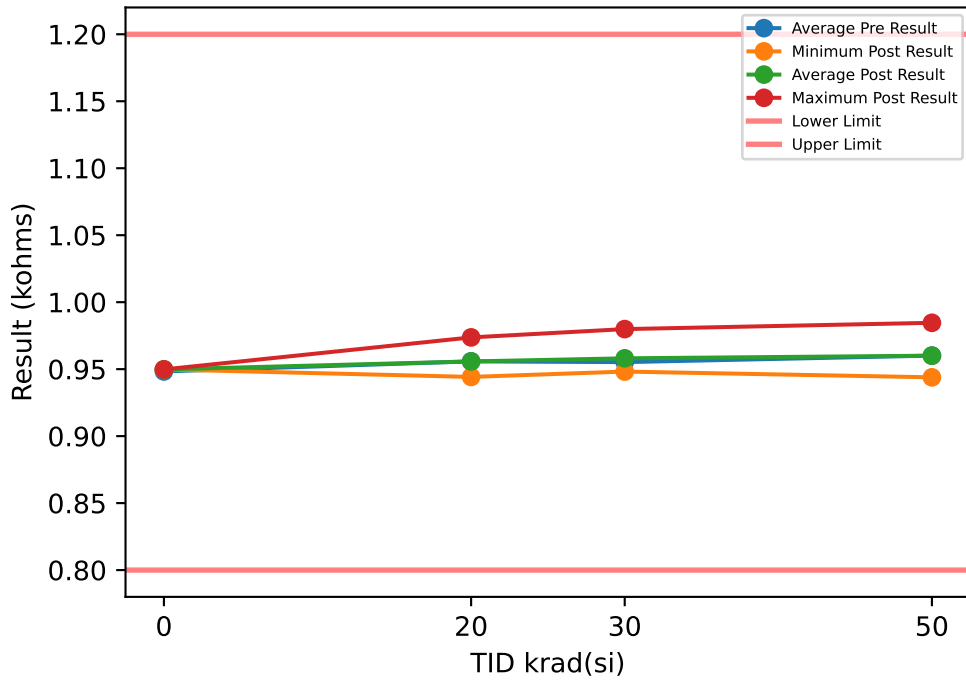


Test Statistics (kohms)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.9481 | 0.9481 | 0.9481 | | 0.9497 | 0.9497 | 0.9497 | | 0.0016 | 0.0016 | 0.0016 | |
| 20 | 0.9441 | 0.95562 | 0.9736 | 0.010416 | 0.9441 | 0.9556 | 0.9735 | 0.010383 | -0.0032 | -2e-05 | 0.0033 | 0.0015339 |
| 30 | 0.948 | 0.95506 | 0.9632 | 0.005918 | 0.948 | 0.95791 | 0.9797 | 0.0095598 | -0.0029 | 0.00285 | 0.0312 | 0.010091 |
| 50 | 0.9437 | 0.95994 | 0.9846 | 0.015545 | 0.9438 | 0.95989 | 0.9844 | 0.015453 | -0.0268 | -5e-05 | 0.0266 | 0.012617 |

Device Test: 102.1 R_BST_SW_PARALLEL(Bootstrap Diode Switch Parallel Resistance VIN_14V)

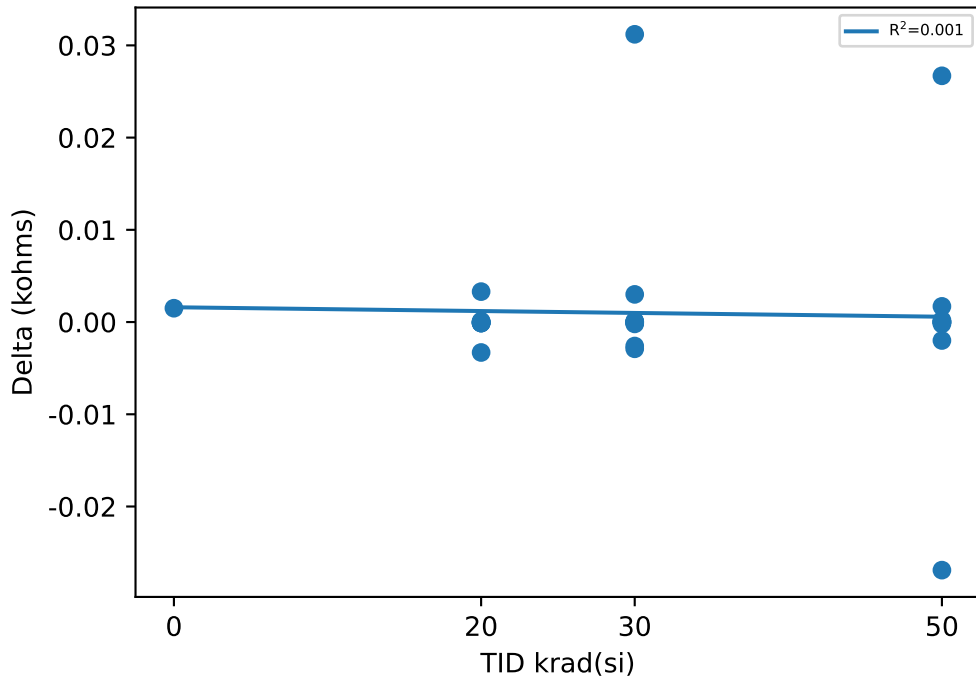
TID vs Result Stats



Test Results (Lower Limit = 0.8, Upper Limit = 1.2 (kohms))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.9483 | 0.9498 | 0.0015 |
| 321 | 20 | HDR unbiased | 0.9552 | 0.9552 | 0 |
| 322 | 20 | HDR unbiased | 0.9612 | 0.9611 | -0.0001 |
| 323 | 20 | HDR unbiased | 0.9561 | 0.956 | -0.0001 |
| 324 | 20 | HDR unbiased | 0.9737 | 0.9737 | 0 |
| 325 | 20 | HDR unbiased | 0.9726 | 0.9726 | 0 |
| 331 | 30 | HDR unbiased | 0.9598 | 0.9598 | 0 |
| 332 | 30 | HDR unbiased | 0.9634 | 0.9633 | -0.0001 |
| 333 | 30 | HDR unbiased | 0.96 | 0.9601 | 0.0001 |
| 334 | 30 | HDR unbiased | 0.9612 | 0.9612 | 0 |
| 335 | 30 | HDR unbiased | 0.9588 | 0.9586 | -0.0002 |
| 351 | 50 | HDR unbiased | 0.9814 | 0.9545 | -0.0269 |
| 352 | 50 | HDR unbiased | 0.9848 | 0.9846 | -0.0002 |
| 353 | 50 | HDR unbiased | 0.9546 | 0.9813 | 0.0267 |
| 354 | 50 | HDR unbiased | 0.9705 | 0.9722 | 0.0017 |
| 355 | 50 | HDR unbiased | 0.9723 | 0.9703 | -0.002 |
| 521 | 20 | HDR biased | 0.9503 | 0.9502 | -0.0001 |
| 522 | 20 | HDR biased | 0.95 | 0.9501 | 0.0001 |
| 523 | 20 | HDR biased | 0.9471 | 0.947 | -0.0001 |
| 524 | 20 | HDR biased | 0.9443 | 0.9476 | 0.0033 |
| 525 | 20 | HDR biased | 0.9475 | 0.9442 | -0.0033 |
| 531 | 30 | HDR biased | 0.952 | 0.9491 | -0.0029 |
| 532 | 30 | HDR biased | 0.9487 | 0.9799 | 0.0312 |
| 533 | 30 | HDR biased | 0.9513 | 0.9487 | -0.0026 |
| 534 | 30 | HDR biased | 0.9482 | 0.9482 | 0 |
| 535 | 30 | HDR biased | 0.949 | 0.952 | 0.003 |
| 551 | 50 | HDR biased | 0.9471 | 0.9471 | 0 |
| 552 | 50 | HDR biased | 0.947 | 0.947 | 0 |
| 553 | 50 | HDR biased | 0.9478 | 0.948 | 0.0002 |
| 554 | 50 | HDR biased | 0.9439 | 0.9439 | 0 |
| 555 | 50 | HDR biased | 0.9517 | 0.9517 | 0 |

TID vs Post - Pre Exposure Delta

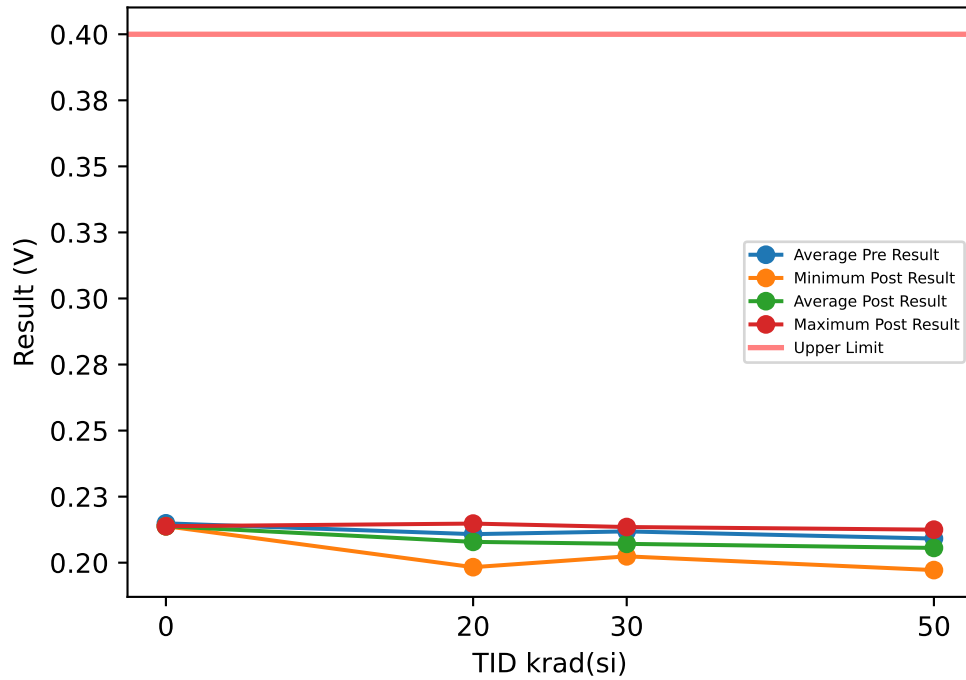


Test Statistics (kohms)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.9483 | 0.9483 | 0.9483 | | 0.9498 | 0.9498 | 0.9498 | | 0.0015 | 0.0015 | 0.0015 | |
| 20 | 0.9443 | 0.9558 | 0.9737 | 0.010398 | 0.9442 | 0.95577 | 0.9737 | 0.010404 | -0.0033 | -3e-05 | 0.0033 | 0.0015571 |
| 30 | 0.9482 | 0.95524 | 0.9634 | 0.005921 | 0.9482 | 0.95809 | 0.9799 | 0.0095662 | -0.0029 | 0.00285 | 0.0312 | 0.010091 |
| 50 | 0.9439 | 0.96011 | 0.9848 | 0.015549 | 0.9439 | 0.96006 | 0.9846 | 0.015461 | -0.0269 | -5e-05 | 0.0267 | 0.012664 |

Device Test: 105.0 V_PGOOD_OL(_PGOOD Logic Low Outupt)

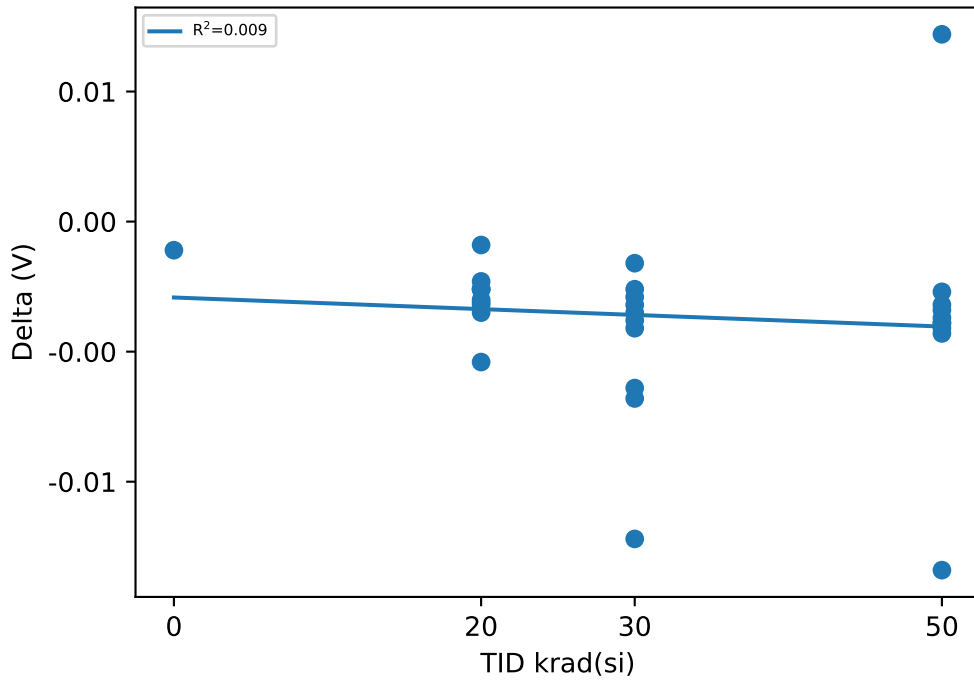
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.2149 | 0.2138 | -0.0011 |
| 321 | 20 | HDR unbiased | 0.2065 | 0.2039 | -0.0026 |
| 322 | 20 | HDR unbiased | 0.2031 | 0.2008 | -0.0023 |
| 323 | 20 | HDR unbiased | 0.2075 | 0.2043 | -0.0032 |
| 324 | 20 | HDR unbiased | 0.2009 | 0.1983 | -0.0026 |
| 325 | 20 | HDR unbiased | 0.2089 | 0.2059 | -0.003 |
| 331 | 30 | HDR unbiased | 0.2087 | 0.2052 | -0.0035 |
| 332 | 30 | HDR unbiased | 0.206 | 0.2031 | -0.0029 |
| 333 | 30 | HDR unbiased | 0.2095 | 0.2057 | -0.0038 |
| 334 | 30 | HDR unbiased | 0.2069 | 0.2037 | -0.0032 |
| 335 | 30 | HDR unbiased | 0.2096 | 0.207 | -0.0026 |
| 351 | 50 | HDR unbiased | 0.2039 | 0.2005 | -0.0034 |
| 352 | 50 | HDR unbiased | 0.2019 | 0.1992 | -0.0027 |
| 353 | 50 | HDR unbiased | 0.2037 | 0.2005 | -0.0032 |
| 354 | 50 | HDR unbiased | 0.2004 | 0.2076 | 0.0072 |
| 355 | 50 | HDR unbiased | 0.2106 | 0.1972 | -0.0134 |
| 521 | 20 | HDR biased | 0.2171 | 0.2145 | -0.0026 |
| 522 | 20 | HDR biased | 0.2153 | 0.2118 | -0.0035 |
| 523 | 20 | HDR biased | 0.2179 | 0.2148 | -0.0031 |
| 524 | 20 | HDR biased | 0.2164 | 0.211 | -0.0054 |
| 525 | 20 | HDR biased | 0.2144 | 0.2135 | -0.0009 |
| 531 | 30 | HDR biased | 0.2127 | 0.2111 | -0.0016 |
| 532 | 30 | HDR biased | 0.2146 | 0.2024 | -0.0122 |
| 533 | 30 | HDR biased | 0.2177 | 0.2109 | -0.0068 |
| 534 | 30 | HDR biased | 0.2176 | 0.2135 | -0.0041 |
| 535 | 30 | HDR biased | 0.2151 | 0.2087 | -0.0064 |
| 551 | 50 | HDR biased | 0.2162 | 0.2125 | -0.0037 |
| 552 | 50 | HDR biased | 0.2132 | 0.2091 | -0.0041 |
| 553 | 50 | HDR biased | 0.2155 | 0.2112 | -0.0043 |
| 554 | 50 | HDR biased | 0.2152 | 0.2113 | -0.0039 |
| 555 | 50 | HDR biased | 0.2107 | 0.2068 | -0.0039 |

TID vs Post - Pre Exposure Delta

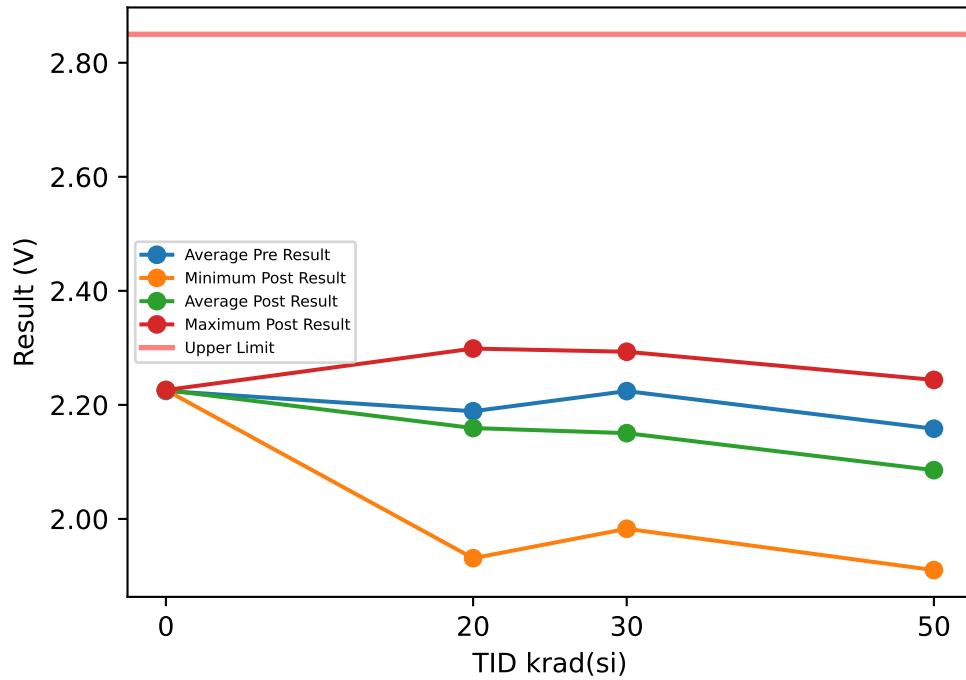


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2149 | 0.2149 | 0.2149 | | 0.2138 | 0.2138 | 0.2138 | | -0.0011 | -0.0011 | -0.0011 | |
| 20 | 0.2009 | 0.2108 | 0.2179 | 0.006191 | 0.1983 | 0.20788 | 0.2148 | 0.0059896 | -0.0054 | -0.00292 | -0.0009 | 0.0011243 |
| 30 | 0.206 | 0.21184 | 0.2177 | 0.0042865 | 0.2024 | 0.20713 | 0.2135 | 0.0037886 | -0.0122 | -0.00471 | -0.0016 | 0.0030853 |
| 50 | 0.2004 | 0.20913 | 0.2162 | 0.0060912 | 0.1972 | 0.20559 | 0.2125 | 0.0057027 | -0.0134 | -0.00354 | 0.0072 | 0.0048829 |

Device Test: 105.1 V_BP5L_MIN_FOR_PGOOD(_Min BP5L for Valid PGOOD)

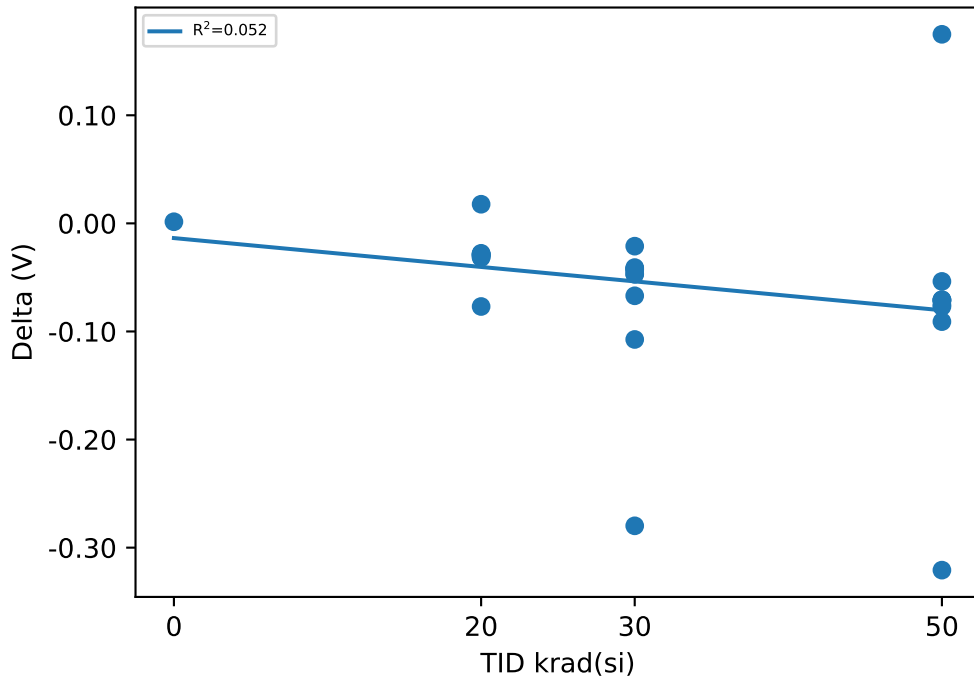
TID vs Result Stats



Test Results (Upper Limit = 2.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.2245 | 2.226 | 0.0015 |
| 321 | 20 | HDR unbiased | 2.1026 | 2.0738 | -0.0288 |
| 322 | 20 | HDR unbiased | 2.0419 | 2.0127 | -0.0292 |
| 323 | 20 | HDR unbiased | 2.132 | 2.1033 | -0.0287 |
| 324 | 20 | HDR unbiased | 1.9588 | 1.9311 | -0.0277 |
| 325 | 20 | HDR unbiased | 2.2278 | 2.1994 | -0.0284 |
| 331 | 30 | HDR unbiased | 2.2104 | 2.1637 | -0.0467 |
| 332 | 30 | HDR unbiased | 2.1724 | 2.1304 | -0.042 |
| 333 | 30 | HDR unbiased | 2.1095 | 2.0624 | -0.0471 |
| 334 | 30 | HDR unbiased | 2.144 | 2.1017 | -0.0423 |
| 335 | 30 | HDR unbiased | 2.1768 | 2.1337 | -0.0431 |
| 351 | 50 | HDR unbiased | 2.0823 | 2.0286 | -0.0537 |
| 352 | 50 | HDR unbiased | 2.046 | 1.9707 | -0.0753 |
| 353 | 50 | HDR unbiased | 2.0995 | 2.0086 | -0.0909 |
| 354 | 50 | HDR unbiased | 1.9847 | 2.1596 | 0.1749 |
| 355 | 50 | HDR unbiased | 2.2311 | 1.9103 | -0.3208 |
| 521 | 20 | HDR biased | 2.3305 | 2.2988 | -0.0317 |
| 522 | 20 | HDR biased | 2.2632 | 2.2333 | -0.0299 |
| 523 | 20 | HDR biased | 2.327 | 2.296 | -0.031 |
| 524 | 20 | HDR biased | 2.2763 | 2.1994 | -0.0769 |
| 525 | 20 | HDR biased | 2.2283 | 2.246 | 0.0177 |
| 531 | 30 | HDR biased | 2.262 | 2.195 | -0.067 |
| 532 | 30 | HDR biased | 2.2625 | 1.9827 | -0.2798 |
| 533 | 30 | HDR biased | 2.3265 | 2.2191 | -0.1074 |
| 534 | 30 | HDR biased | 2.3341 | 2.2932 | -0.0409 |
| 535 | 30 | HDR biased | 2.2437 | 2.2226 | -0.0211 |
| 551 | 50 | HDR biased | 2.3151 | 2.2438 | -0.0713 |
| 552 | 50 | HDR biased | 2.2581 | 2.1811 | -0.077 |
| 553 | 50 | HDR biased | 2.2164 | 2.145 | -0.0714 |
| 554 | 50 | HDR biased | 2.1907 | 2.1199 | -0.0708 |
| 555 | 50 | HDR biased | 2.1584 | 2.0878 | -0.0706 |

TID vs Post - Pre Exposure Delta

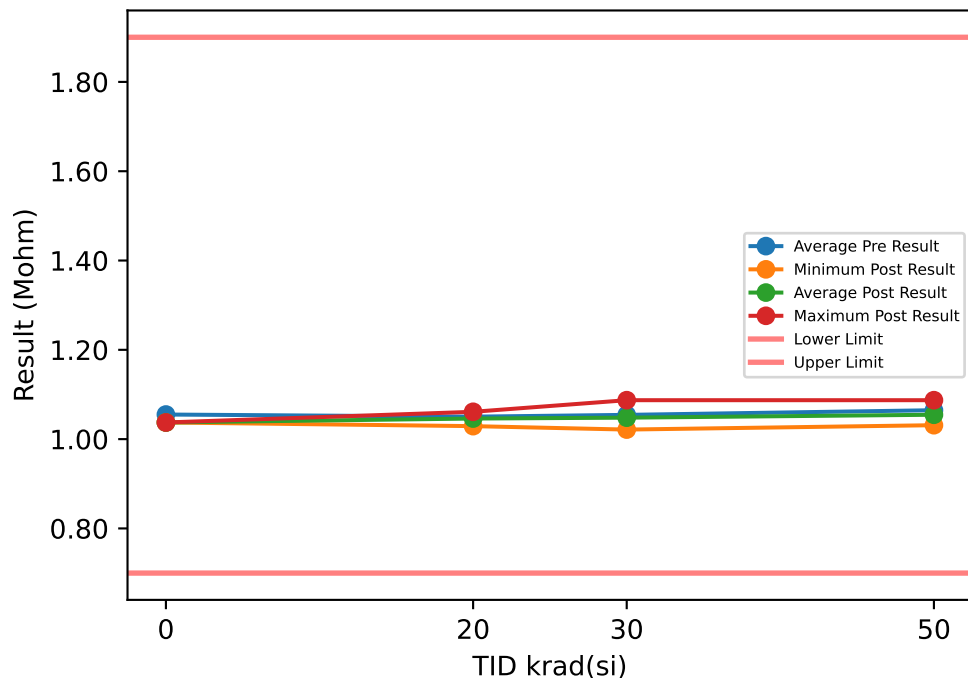


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.2245 | 2.2245 | 2.2245 | | 2.226 | 2.226 | 2.226 | | 0.0015 | 0.0015 | 0.0015 | |
| 20 | 1.9588 | 2.1888 | 2.3305 | 0.12498 | 1.9311 | 2.1594 | 2.2988 | 0.12399 | -0.0769 | -0.02946 | 0.0177 | 0.02233 |
| 30 | 2.1095 | 2.2242 | 2.3341 | 0.074928 | 1.9827 | 2.1505 | 2.2932 | 0.089074 | -0.2798 | -0.07374 | -0.0211 | 0.075912 |
| 50 | 1.9847 | 2.1582 | 2.3151 | 0.10342 | 1.9103 | 2.0855 | 2.2438 | 0.10405 | -0.3208 | -0.07269 | 0.1749 | 0.11718 |

Device Test: 105.2 I_PGOOD_PD_RES(_PGOOD Internal Resistance VIN_10V)

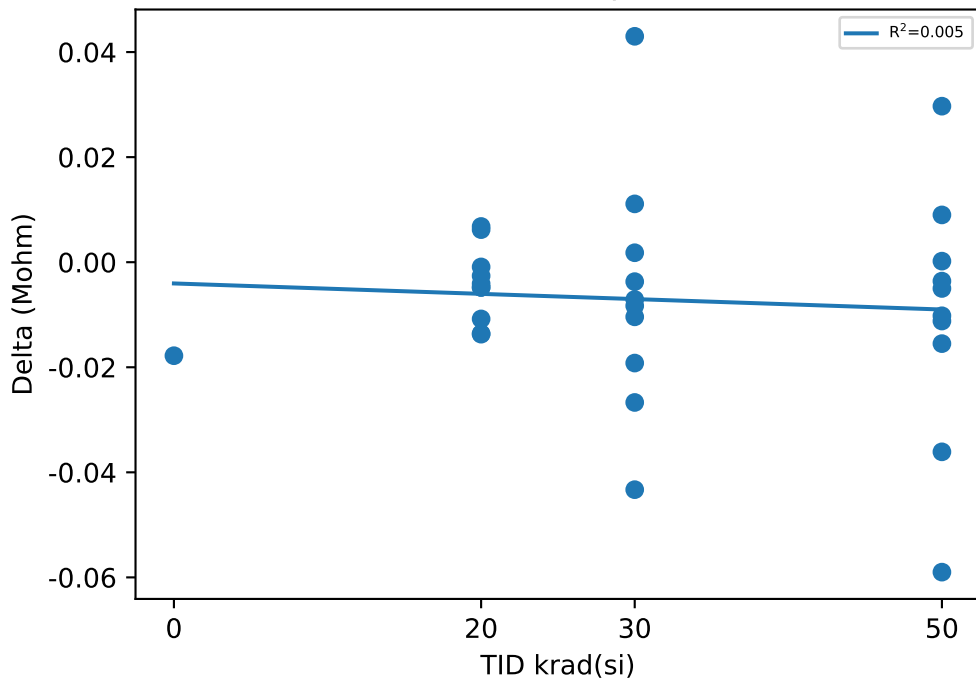
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 1.9 (Mohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.0551 | 1.0373 | -0.0178 |
| 321 | 20 | HDR unbiased | 1.03 | 1.0291 | -0.0009 |
| 322 | 20 | HDR unbiased | 1.0533 | 1.0485 | -0.0048 |
| 323 | 20 | HDR unbiased | 1.0404 | 1.0356 | -0.0048 |
| 324 | 20 | HDR unbiased | 1.072 | 1.0612 | -0.0108 |
| 325 | 20 | HDR unbiased | 1.0633 | 1.0496 | -0.0137 |
| 331 | 30 | HDR unbiased | 1.0398 | 1.0294 | -0.0104 |
| 332 | 30 | HDR unbiased | 1.0684 | 1.0492 | -0.0192 |
| 333 | 30 | HDR unbiased | 1.0386 | 1.0349 | -0.0037 |
| 334 | 30 | HDR unbiased | 1.042 | 1.0349 | -0.0071 |
| 335 | 30 | HDR unbiased | 1.0297 | 1.0214 | -0.0083 |
| 351 | 50 | HDR unbiased | 1.091 | 1.032 | -0.059 |
| 352 | 50 | HDR unbiased | 1.0749 | 1.0699 | -0.005 |
| 353 | 50 | HDR unbiased | 1.0451 | 1.0748 | 0.0297 |
| 354 | 50 | HDR unbiased | 1.0789 | 1.0428 | -0.0361 |
| 355 | 50 | HDR unbiased | 1.0586 | 1.0676 | 0.009 |
| 521 | 20 | HDR biased | 1.0477 | 1.0545 | 0.0068 |
| 522 | 20 | HDR biased | 1.042 | 1.0394 | -0.0026 |
| 523 | 20 | HDR biased | 1.0522 | 1.0481 | -0.0041 |
| 524 | 20 | HDR biased | 1.0558 | 1.0422 | -0.0136 |
| 525 | 20 | HDR biased | 1.0467 | 1.0529 | 0.0062 |
| 531 | 30 | HDR biased | 1.0859 | 1.0426 | -0.0433 |
| 532 | 30 | HDR biased | 1.0582 | 1.0693 | 0.0111 |
| 533 | 30 | HDR biased | 1.068 | 1.0413 | -0.0267 |
| 534 | 30 | HDR biased | 1.0685 | 1.0703 | 0.0018 |
| 535 | 30 | HDR biased | 1.0442 | 1.0872 | 0.043 |
| 551 | 50 | HDR biased | 1.0526 | 1.0424 | -0.0102 |
| 552 | 50 | HDR biased | 1.0424 | 1.0312 | -0.0112 |
| 553 | 50 | HDR biased | 1.0537 | 1.0539 | 0.0002 |
| 554 | 50 | HDR biased | 1.0596 | 1.0441 | -0.0155 |
| 555 | 50 | HDR biased | 1.0908 | 1.0872 | -0.0036 |

TID vs Post - Pre Exposure Delta

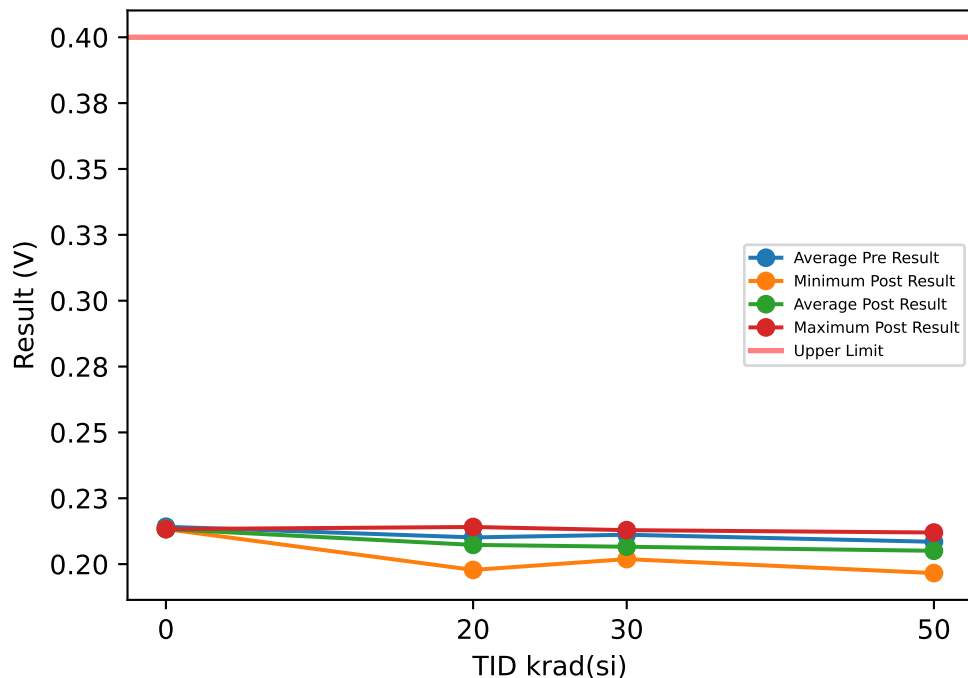


Test Statistics (Mohm)

| 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 | 1.0551 | 1.0551 | 1.0551 | | 1.0373 | 1.0373 | 1.0373 | | -0.0178 | -0.0178 | -0.0178 | |
| 20 | 1.03 | 1.0503 | 1.072 | 0.011932 | 1.0291 | 1.0461 | 1.0612 | 0.0095811 | -0.0137 | -0.00423 | 0.0068 | 0.0071918 |
| 30 | 1.0297 | 1.0543 | 1.0859 | 0.018003 | 1.0214 | 1.048 | 1.0872 | 0.020976 | -0.0433 | -0.00628 | 0.043 | 0.023043 |
| 50 | 1.0424 | 1.0648 | 1.091 | 0.017922 | 1.0312 | 1.0546 | 1.0872 | 0.019238 | -0.059 | -0.01017 | 0.0297 | 0.024085 |

Device Test: 106.0 V_PGOOD_OL(_PGOOD Logic Low Outupt)

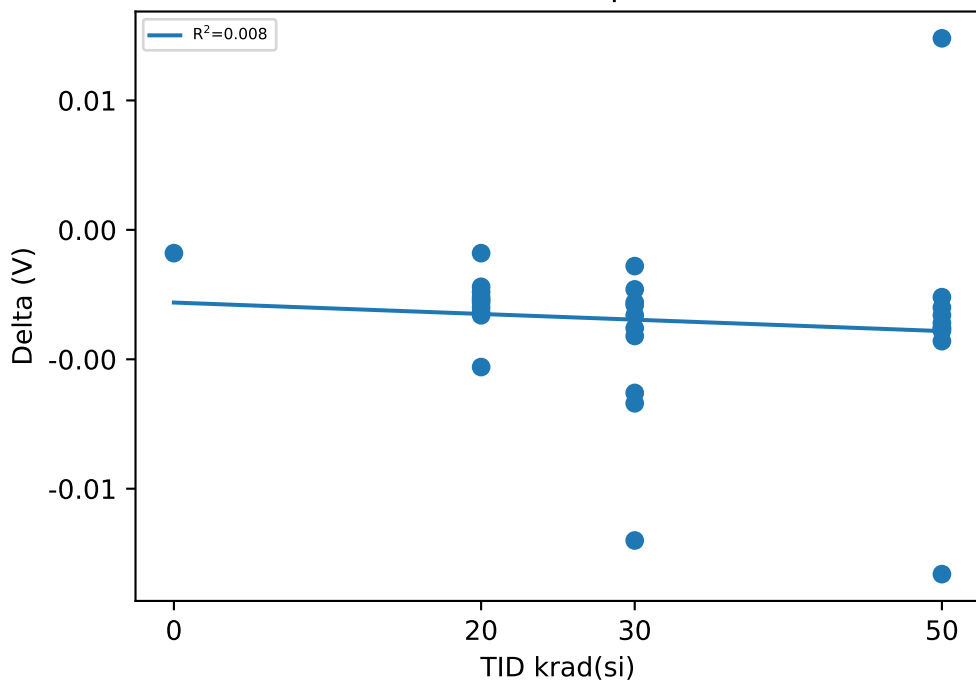
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.2142 | 0.2133 | -0.0009 |
| 321 | 20 | HDR unbiased | 0.2059 | 0.2033 | -0.0026 |
| 322 | 20 | HDR unbiased | 0.2024 | 0.2002 | -0.0022 |
| 323 | 20 | HDR unbiased | 0.2068 | 0.2036 | -0.0032 |
| 324 | 20 | HDR unbiased | 0.2002 | 0.1978 | -0.0024 |
| 325 | 20 | HDR unbiased | 0.2082 | 0.2054 | -0.0028 |
| 331 | 30 | HDR unbiased | 0.208 | 0.2047 | -0.0033 |
| 332 | 30 | HDR unbiased | 0.2054 | 0.2026 | -0.0028 |
| 333 | 30 | HDR unbiased | 0.2088 | 0.205 | -0.0038 |
| 334 | 30 | HDR unbiased | 0.2062 | 0.2033 | -0.0029 |
| 335 | 30 | HDR unbiased | 0.2089 | 0.2066 | -0.0023 |
| 351 | 50 | HDR unbiased | 0.2033 | 0.2 | -0.0033 |
| 352 | 50 | HDR unbiased | 0.2012 | 0.1986 | -0.0026 |
| 353 | 50 | HDR unbiased | 0.2031 | 0.2001 | -0.003 |
| 354 | 50 | HDR unbiased | 0.1998 | 0.2072 | 0.0074 |
| 355 | 50 | HDR unbiased | 0.2099 | 0.1966 | -0.0133 |
| 521 | 20 | HDR biased | 0.2165 | 0.2138 | -0.0027 |
| 522 | 20 | HDR biased | 0.2147 | 0.2114 | -0.0033 |
| 523 | 20 | HDR biased | 0.2171 | 0.2141 | -0.003 |
| 524 | 20 | HDR biased | 0.2158 | 0.2105 | -0.0053 |
| 525 | 20 | HDR biased | 0.2138 | 0.2129 | -0.0009 |
| 531 | 30 | HDR biased | 0.212 | 0.2106 | -0.0014 |
| 532 | 30 | HDR biased | 0.2139 | 0.2019 | -0.012 |
| 533 | 30 | HDR biased | 0.217 | 0.2103 | -0.0067 |
| 534 | 30 | HDR biased | 0.217 | 0.2129 | -0.0041 |
| 535 | 30 | HDR biased | 0.2144 | 0.2081 | -0.0063 |
| 551 | 50 | HDR biased | 0.2156 | 0.212 | -0.0036 |
| 552 | 50 | HDR biased | 0.2125 | 0.2086 | -0.0039 |
| 553 | 50 | HDR biased | 0.2148 | 0.2105 | -0.0043 |
| 554 | 50 | HDR biased | 0.2146 | 0.2108 | -0.0038 |
| 555 | 50 | HDR biased | 0.21 | 0.2062 | -0.0038 |

TID vs Post - Pre Exposure Delta

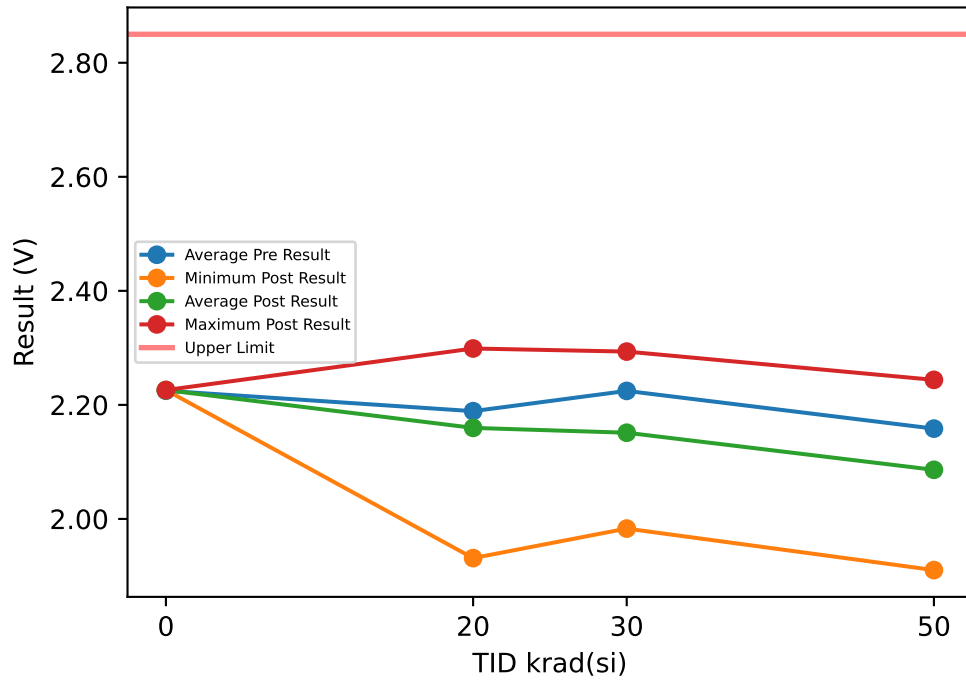


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2142 | 0.2142 | 0.2142 | | 0.2133 | 0.2133 | 0.2133 | | -0.0009 | -0.0009 | -0.0009 | |
| 20 | 0.2002 | 0.21014 | 0.2171 | 0.0062068 | 0.1978 | 0.2073 | 0.2141 | 0.0059709 | -0.0053 | -0.00284 | -0.0009 | 0.0010987 |
| 30 | 0.2054 | 0.21116 | 0.217 | 0.0042865 | 0.2019 | 0.2066 | 0.2129 | 0.0037532 | -0.012 | -0.00456 | -0.0014 | 0.0030963 |
| 50 | 0.1998 | 0.20848 | 0.2156 | 0.00608 | 0.1966 | 0.20506 | 0.212 | 0.0057021 | -0.0133 | -0.00342 | 0.0074 | 0.0049089 |

Device Test: 106.1 V_BP5L_MIN_FOR_PGOOD(_Min BP5L for Valid PGOOD)

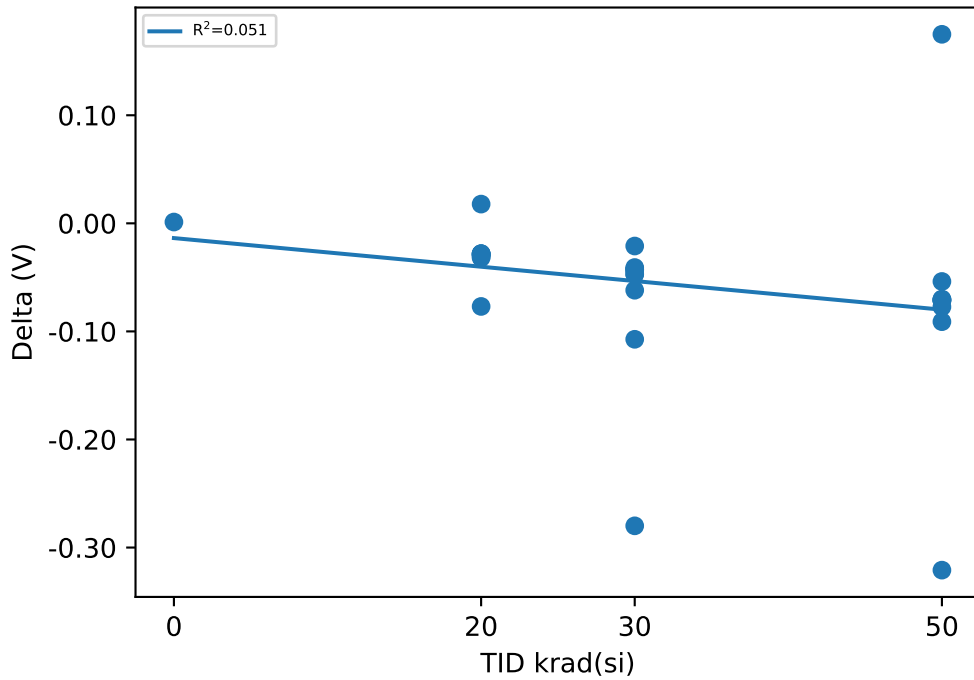
TID vs Result Stats



Test Results (Upper Limit = 2.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.2248 | 2.226 | 0.0012 |
| 321 | 20 | HDR unbiased | 2.1025 | 2.0741 | -0.0284 |
| 322 | 20 | HDR unbiased | 2.0421 | 2.0134 | -0.0287 |
| 323 | 20 | HDR unbiased | 2.1323 | 2.1039 | -0.0284 |
| 324 | 20 | HDR unbiased | 1.9593 | 1.9313 | -0.028 |
| 325 | 20 | HDR unbiased | 2.2278 | 2.1996 | -0.0282 |
| 331 | 30 | HDR unbiased | 2.2105 | 2.1637 | -0.0468 |
| 332 | 30 | HDR unbiased | 2.1729 | 2.1304 | -0.0425 |
| 333 | 30 | HDR unbiased | 2.11 | 2.0627 | -0.0473 |
| 334 | 30 | HDR unbiased | 2.1443 | 2.1018 | -0.0425 |
| 335 | 30 | HDR unbiased | 2.1774 | 2.134 | -0.0434 |
| 351 | 50 | HDR unbiased | 2.0825 | 2.0287 | -0.0538 |
| 352 | 50 | HDR unbiased | 2.0458 | 1.9757 | -0.0701 |
| 353 | 50 | HDR unbiased | 2.0997 | 2.0087 | -0.091 |
| 354 | 50 | HDR unbiased | 1.9847 | 2.1596 | 0.1749 |
| 355 | 50 | HDR unbiased | 2.2312 | 1.9103 | -0.3209 |
| 521 | 20 | HDR biased | 2.3308 | 2.2989 | -0.0319 |
| 522 | 20 | HDR biased | 2.2634 | 2.2338 | -0.0296 |
| 523 | 20 | HDR biased | 2.3272 | 2.2963 | -0.0309 |
| 524 | 20 | HDR biased | 2.2763 | 2.1994 | -0.0769 |
| 525 | 20 | HDR biased | 2.2284 | 2.2462 | 0.0178 |
| 531 | 30 | HDR biased | 2.2624 | 2.2005 | -0.0619 |
| 532 | 30 | HDR biased | 2.263 | 1.9831 | -0.2799 |
| 533 | 30 | HDR biased | 2.3265 | 2.2192 | -0.1073 |
| 534 | 30 | HDR biased | 2.3344 | 2.2935 | -0.0409 |
| 535 | 30 | HDR biased | 2.244 | 2.223 | -0.021 |
| 551 | 50 | HDR biased | 2.3154 | 2.2439 | -0.0715 |
| 552 | 50 | HDR biased | 2.2586 | 2.1813 | -0.0773 |
| 553 | 50 | HDR biased | 2.2164 | 2.1453 | -0.0711 |
| 554 | 50 | HDR biased | 2.1907 | 2.1202 | -0.0705 |
| 555 | 50 | HDR biased | 2.159 | 2.0878 | -0.0712 |

TID vs Post - Pre Exposure Delta

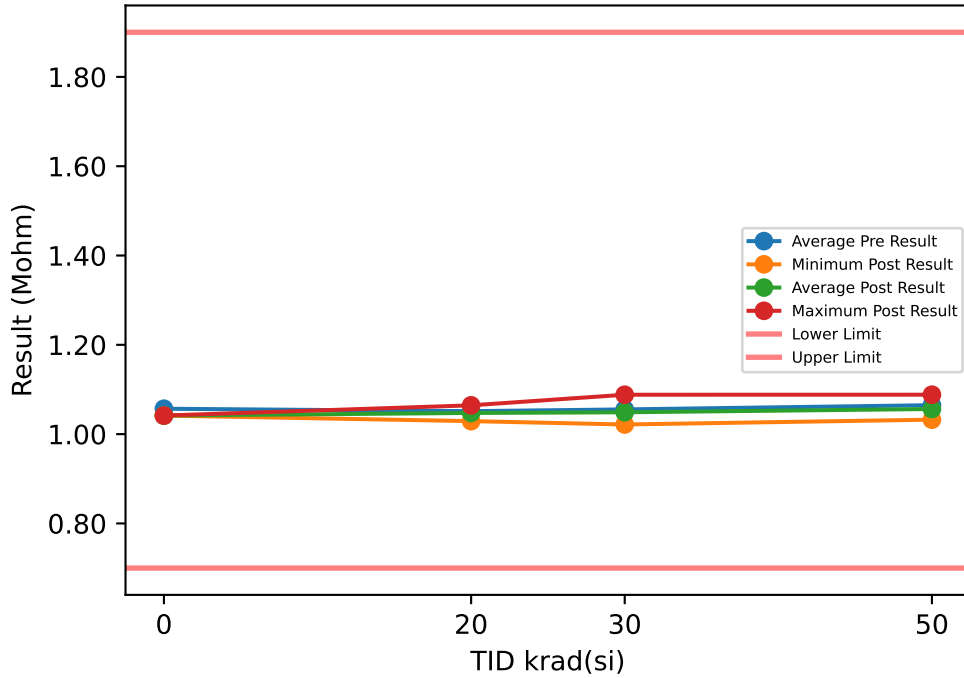


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.2248 | 2.2248 | 2.2248 | | 2.226 | 2.226 | 2.226 | | 0.0012 | 0.0012 | 0.0012 | |
| 20 | 1.9593 | 2.189 | 2.3308 | 0.12493 | 1.9313 | 2.1597 | 2.2989 | 0.12391 | -0.0769 | -0.02932 | 0.0178 | 0.022357 |
| 30 | 2.11 | 2.2245 | 2.3344 | 0.074833 | 1.9831 | 2.1512 | 2.2935 | 0.089364 | -0.2799 | -0.07335 | -0.021 | 0.075956 |
| 50 | 1.9847 | 2.1584 | 2.3154 | 0.10352 | 1.9103 | 2.0861 | 2.2439 | 0.1035 | -0.3209 | -0.07225 | 0.1749 | 0.11721 |

Device Test: 106.2 I_PGOOD_PD_RES(_PGOOD Internal Resistance VIN_12V)

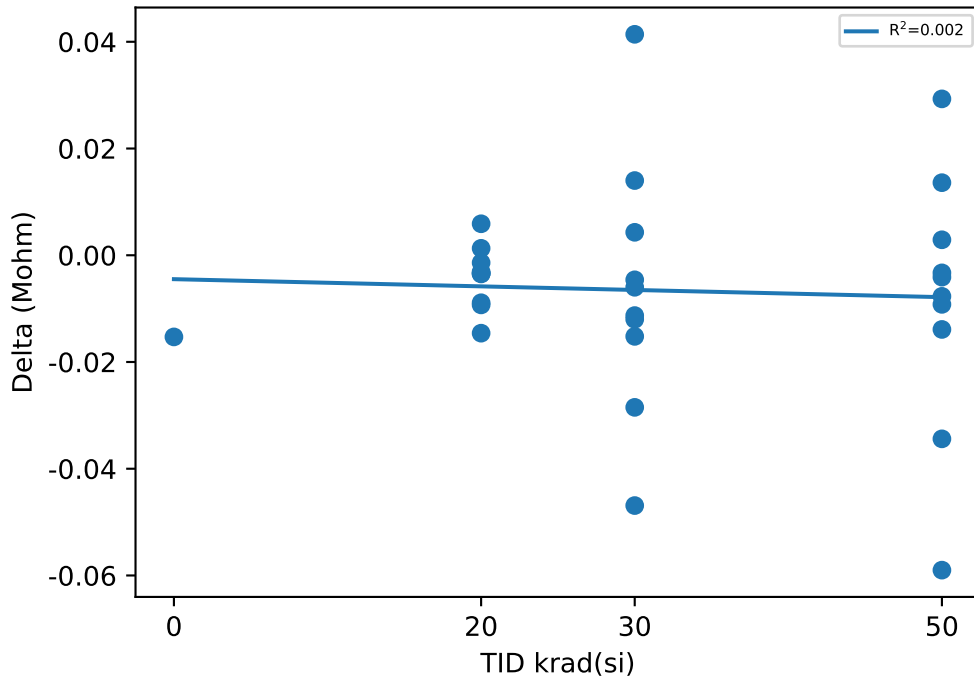
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 1.9 (Mohm))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.0569 | 1.0416 | -0.0153 |
| 321 | 20 | HDR unbiased | 1.0325 | 1.0291 | -0.0034 |
| 322 | 20 | HDR unbiased | 1.0534 | 1.0503 | -0.0031 |
| 323 | 20 | HDR unbiased | 1.0388 | 1.0374 | -0.0014 |
| 324 | 20 | HDR unbiased | 1.0734 | 1.0645 | -0.0089 |
| 325 | 20 | HDR unbiased | 1.0648 | 1.0502 | -0.0146 |
| 331 | 30 | HDR unbiased | 1.0408 | 1.0288 | -0.012 |
| 332 | 30 | HDR unbiased | 1.0637 | 1.0485 | -0.0152 |
| 333 | 30 | HDR unbiased | 1.0404 | 1.0344 | -0.006 |
| 334 | 30 | HDR unbiased | 1.0442 | 1.0396 | -0.0046 |
| 335 | 30 | HDR unbiased | 1.0329 | 1.0216 | -0.0113 |
| 351 | 50 | HDR unbiased | 1.0914 | 1.0324 | -0.059 |
| 352 | 50 | HDR unbiased | 1.0758 | 1.0717 | -0.0041 |
| 353 | 50 | HDR unbiased | 1.0456 | 1.0749 | 0.0293 |
| 354 | 50 | HDR unbiased | 1.0786 | 1.0442 | -0.0344 |
| 355 | 50 | HDR unbiased | 1.0579 | 1.0715 | 0.0136 |
| 521 | 20 | HDR biased | 1.0493 | 1.0552 | 0.0059 |
| 522 | 20 | HDR biased | 1.0459 | 1.0425 | -0.0034 |
| 523 | 20 | HDR biased | 1.0515 | 1.048 | -0.0035 |
| 524 | 20 | HDR biased | 1.0553 | 1.046 | -0.0093 |
| 525 | 20 | HDR biased | 1.0497 | 1.051 | 0.0013 |
| 531 | 30 | HDR biased | 1.0891 | 1.0422 | -0.0469 |
| 532 | 30 | HDR biased | 1.0562 | 1.0702 | 0.014 |
| 533 | 30 | HDR biased | 1.0695 | 1.041 | -0.0285 |
| 534 | 30 | HDR biased | 1.0702 | 1.0745 | 0.0043 |
| 535 | 30 | HDR biased | 1.0468 | 1.0882 | 0.0414 |
| 551 | 50 | HDR biased | 1.0508 | 1.0431 | -0.0077 |
| 552 | 50 | HDR biased | 1.0445 | 1.0353 | -0.0092 |
| 553 | 50 | HDR biased | 1.0538 | 1.0567 | 0.0029 |
| 554 | 50 | HDR biased | 1.0584 | 1.0445 | -0.0139 |
| 555 | 50 | HDR biased | 1.0916 | 1.0883 | -0.0033 |

TID vs Post - Pre Exposure Delta

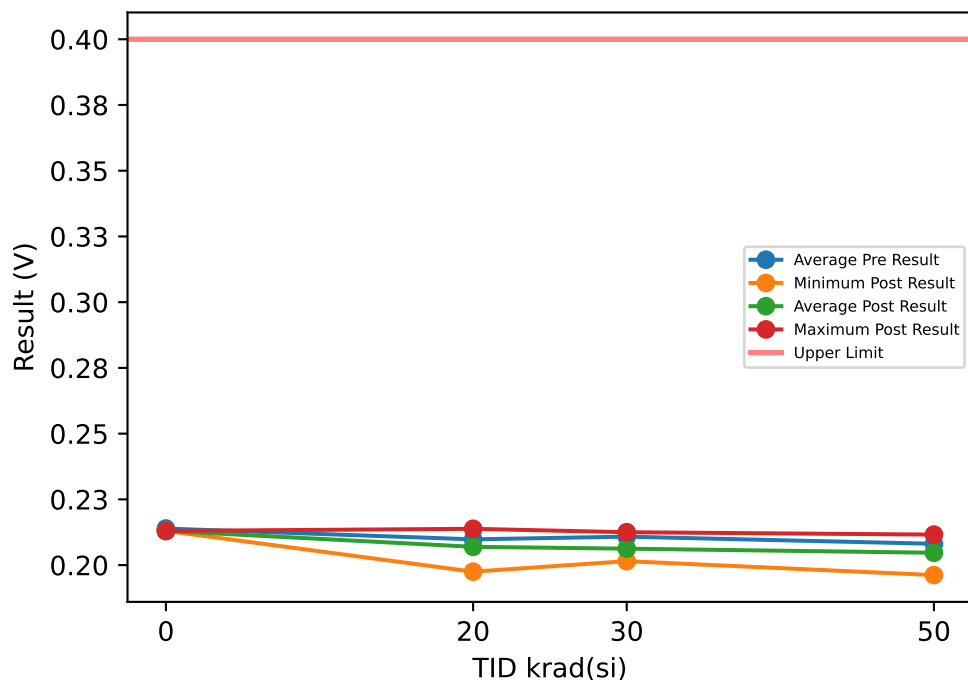


Test Statistics (Mohm)

| 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 | 1.0569 | 1.0569 | 1.0569 | | 1.0416 | 1.0416 | 1.0416 | | -0.0153 | -0.0153 | -0.0153 | |
| 20 | 1.0325 | 1.0515 | 1.0734 | 0.01172 | 1.0291 | 1.0474 | 1.0645 | 0.009682 | -0.0146 | -0.00404 | 0.0059 | 0.0057647 |
| 30 | 1.0329 | 1.0554 | 1.0891 | 0.017534 | 1.0216 | 1.0489 | 1.0882 | 0.021621 | -0.0469 | -0.00648 | 0.0414 | 0.023759 |
| 50 | 1.0445 | 1.0648 | 1.0916 | 0.018023 | 1.0324 | 1.0563 | 1.0883 | 0.019179 | -0.059 | -0.00858 | 0.0293 | 0.02437 |

Device Test: 107.0 V_PGOOD_OL(_PGOOD Logic Low Outupt)

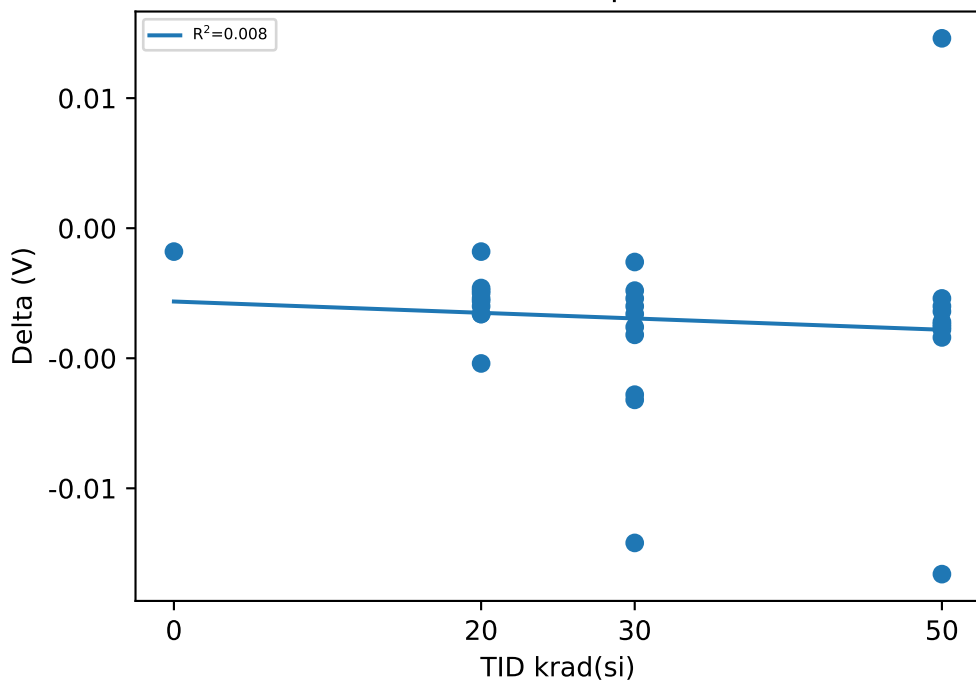
TID vs Result Stats



Test Results (Upper Limit = 0.4 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.2139 | 0.213 | -0.0009 |
| 321 | 20 | HDR unbiased | 0.2055 | 0.203 | -0.0025 |
| 322 | 20 | HDR unbiased | 0.2021 | 0.1998 | -0.0023 |
| 323 | 20 | HDR unbiased | 0.2065 | 0.2032 | -0.0033 |
| 324 | 20 | HDR unbiased | 0.1999 | 0.1975 | -0.0024 |
| 325 | 20 | HDR unbiased | 0.2079 | 0.2051 | -0.0028 |
| 331 | 30 | HDR unbiased | 0.2077 | 0.2044 | -0.0033 |
| 332 | 30 | HDR unbiased | 0.205 | 0.2023 | -0.0027 |
| 333 | 30 | HDR unbiased | 0.2085 | 0.2047 | -0.0038 |
| 334 | 30 | HDR unbiased | 0.2059 | 0.2029 | -0.003 |
| 335 | 30 | HDR unbiased | 0.2086 | 0.2062 | -0.0024 |
| 351 | 50 | HDR unbiased | 0.2029 | 0.1997 | -0.0032 |
| 352 | 50 | HDR unbiased | 0.2009 | 0.1982 | -0.0027 |
| 353 | 50 | HDR unbiased | 0.2027 | 0.1997 | -0.003 |
| 354 | 50 | HDR unbiased | 0.1995 | 0.2068 | 0.0073 |
| 355 | 50 | HDR unbiased | 0.2095 | 0.1962 | -0.0133 |
| 521 | 20 | HDR biased | 0.2161 | 0.2134 | -0.0027 |
| 522 | 20 | HDR biased | 0.2143 | 0.211 | -0.0033 |
| 523 | 20 | HDR biased | 0.2168 | 0.2138 | -0.003 |
| 524 | 20 | HDR biased | 0.2154 | 0.2102 | -0.0052 |
| 525 | 20 | HDR biased | 0.2134 | 0.2125 | -0.0009 |
| 531 | 30 | HDR biased | 0.2116 | 0.2103 | -0.0013 |
| 532 | 30 | HDR biased | 0.2136 | 0.2015 | -0.0121 |
| 533 | 30 | HDR biased | 0.2166 | 0.21 | -0.0066 |
| 534 | 30 | HDR biased | 0.2166 | 0.2125 | -0.0041 |
| 535 | 30 | HDR biased | 0.2141 | 0.2077 | -0.0064 |
| 551 | 50 | HDR biased | 0.2152 | 0.2116 | -0.0036 |
| 552 | 50 | HDR biased | 0.2121 | 0.2082 | -0.0039 |
| 553 | 50 | HDR biased | 0.2144 | 0.2102 | -0.0042 |
| 554 | 50 | HDR biased | 0.2142 | 0.2105 | -0.0037 |
| 555 | 50 | HDR biased | 0.2096 | 0.2058 | -0.0038 |

TID vs Post - Pre Exposure Delta

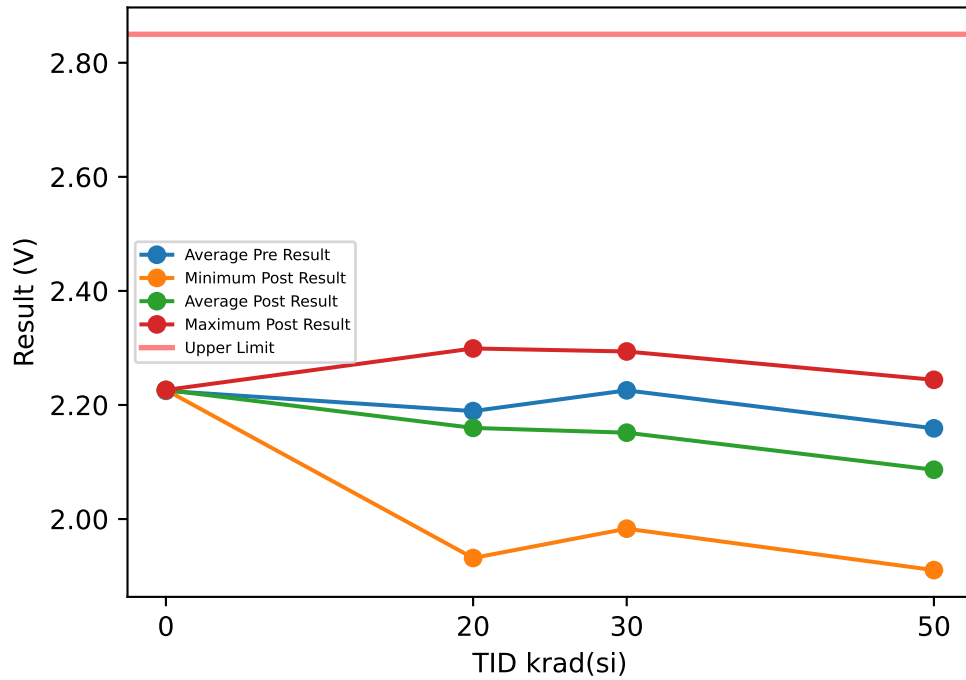


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 0.2139 | 0.2139 | 0.2139 | | 0.213 | 0.213 | 0.213 | | -0.0009 | -0.0009 | -0.0009 | |
| 20 | 0.1999 | 0.20979 | 0.2168 | 0.0061784 | 0.1975 | 0.20695 | 0.2138 | 0.005961 | -0.0052 | -0.00284 | -0.0009 | 0.0010752 |
| 30 | 0.205 | 0.21082 | 0.2166 | 0.0042692 | 0.2015 | 0.20625 | 0.2125 | 0.0037542 | -0.0121 | -0.00457 | -0.0013 | 0.0031263 |
| 50 | 0.1995 | 0.2081 | 0.2152 | 0.0060509 | 0.1962 | 0.20469 | 0.2116 | 0.0057142 | -0.0133 | -0.00341 | 0.0073 | 0.0048804 |

Device Test: 107.1 V_BP5L_MIN_FOR_PGOOD(_Min BP5L for Valid PGOOD)

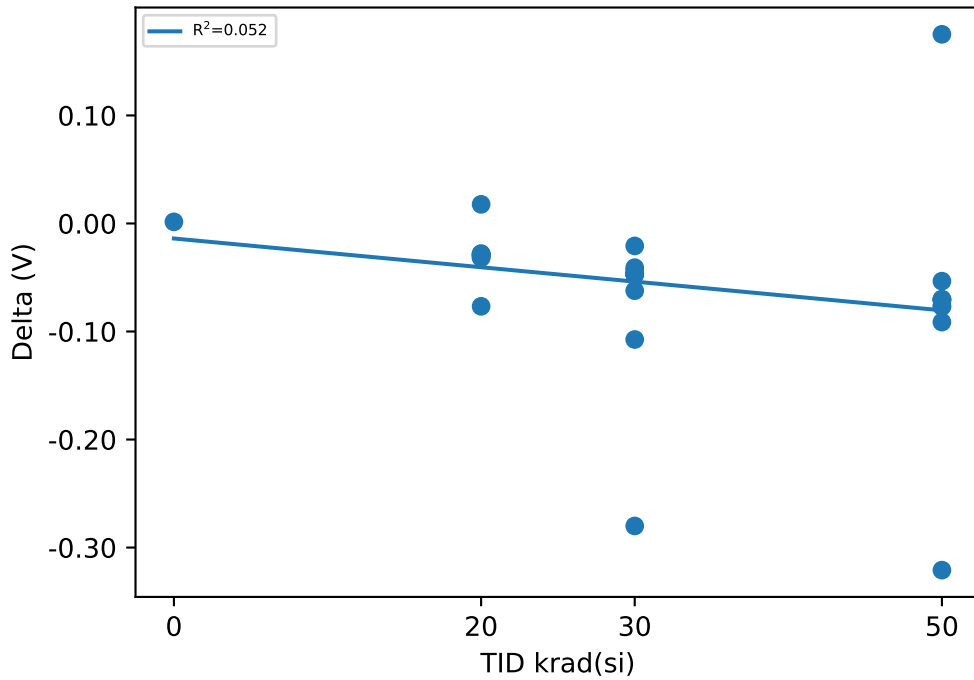
TID vs Result Stats



Test Results (Upper Limit = 2.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.2248 | 2.2263 | 0.0015 |
| 321 | 20 | HDR unbiased | 2.1028 | 2.0742 | -0.0286 |
| 322 | 20 | HDR unbiased | 2.0427 | 2.0134 | -0.0293 |
| 323 | 20 | HDR unbiased | 2.1324 | 2.1039 | -0.0285 |
| 324 | 20 | HDR unbiased | 1.9596 | 1.9317 | -0.0279 |
| 325 | 20 | HDR unbiased | 2.2283 | 2.1997 | -0.0286 |
| 331 | 30 | HDR unbiased | 2.2107 | 2.1641 | -0.0466 |
| 332 | 30 | HDR unbiased | 2.1777 | 2.1307 | -0.047 |
| 333 | 30 | HDR unbiased | 2.11 | 2.063 | -0.047 |
| 334 | 30 | HDR unbiased | 2.149 | 2.1021 | -0.0469 |
| 335 | 30 | HDR unbiased | 2.1774 | 2.1341 | -0.0433 |
| 351 | 50 | HDR unbiased | 2.0826 | 2.0292 | -0.0534 |
| 352 | 50 | HDR unbiased | 2.0458 | 1.9757 | -0.0701 |
| 353 | 50 | HDR unbiased | 2.1 | 2.0087 | -0.0913 |
| 354 | 50 | HDR unbiased | 1.985 | 2.1601 | 0.1751 |
| 355 | 50 | HDR unbiased | 2.2314 | 1.9105 | -0.3209 |
| 521 | 20 | HDR biased | 2.3308 | 2.2991 | -0.0317 |
| 522 | 20 | HDR biased | 2.2636 | 2.2338 | -0.0298 |
| 523 | 20 | HDR biased | 2.3275 | 2.2961 | -0.0314 |
| 524 | 20 | HDR biased | 2.2764 | 2.1997 | -0.0767 |
| 525 | 20 | HDR biased | 2.2286 | 2.2463 | 0.0177 |
| 531 | 30 | HDR biased | 2.2627 | 2.2005 | -0.0622 |
| 532 | 30 | HDR biased | 2.2631 | 1.9831 | -0.28 |
| 533 | 30 | HDR biased | 2.3268 | 2.2194 | -0.1074 |
| 534 | 30 | HDR biased | 2.3347 | 2.2938 | -0.0409 |
| 535 | 30 | HDR biased | 2.2442 | 2.2234 | -0.0208 |
| 551 | 50 | HDR biased | 2.3205 | 2.2441 | -0.0764 |
| 552 | 50 | HDR biased | 2.2588 | 2.1818 | -0.077 |
| 553 | 50 | HDR biased | 2.2164 | 2.1453 | -0.0711 |
| 554 | 50 | HDR biased | 2.1907 | 2.1202 | -0.0705 |
| 555 | 50 | HDR biased | 2.1588 | 2.0885 | -0.0703 |

TID vs Post - Pre Exposure Delta

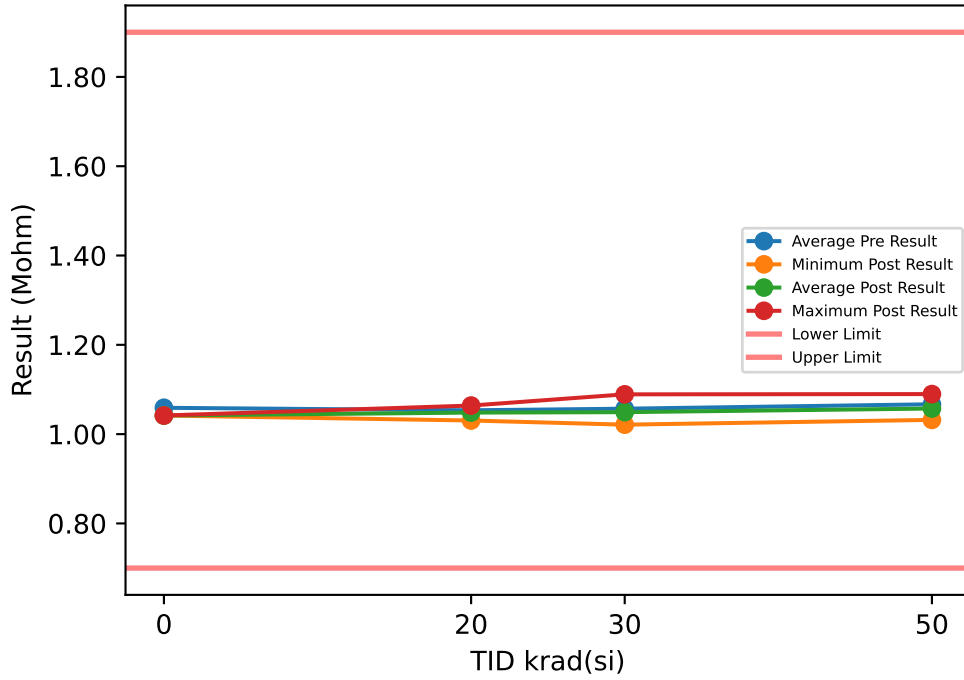


Test Statistics (V)

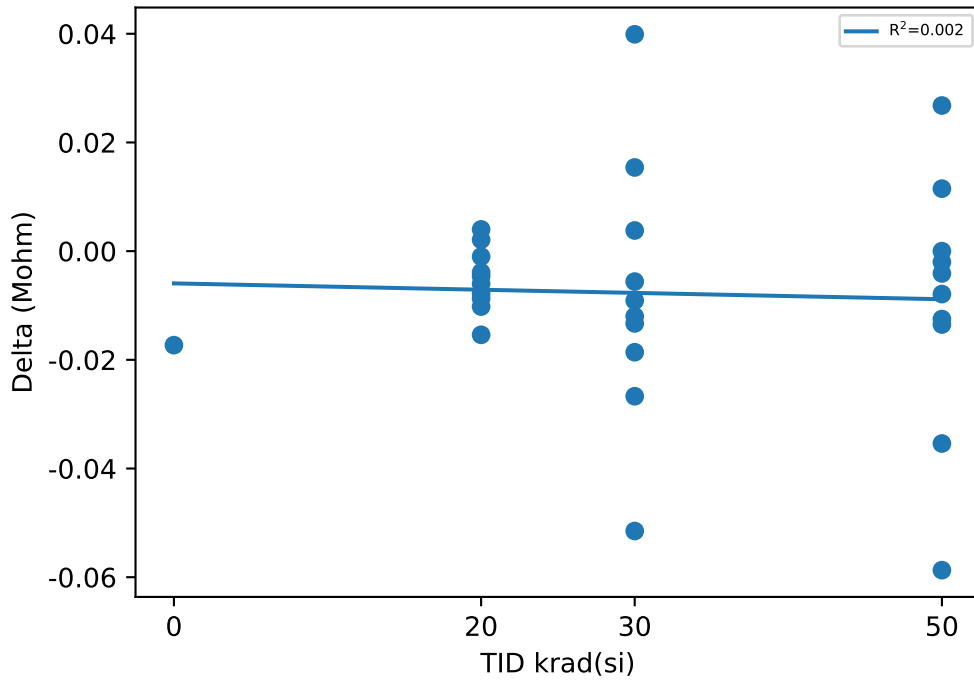
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.2248 | 2.2248 | 2.2248 | | 2.2263 | 2.2263 | 2.2263 | | 0.0015 | 0.0015 | 0.0015 | |
| 20 | 1.9596 | 2.1893 | 2.3308 | 0.12484 | 1.9317 | 2.1598 | 2.2991 | 0.12385 | -0.0767 | -0.02948 | 0.0177 | 0.022285 |
| 30 | 2.11 | 2.2256 | 2.3347 | 0.074045 | 1.9831 | 2.1514 | 2.2938 | 0.089415 | -0.28 | -0.07421 | -0.0208 | 0.075647 |
| 50 | 1.985 | 2.159 | 2.3205 | 0.10435 | 1.9105 | 2.0864 | 2.2441 | 0.10356 | -0.3209 | -0.07259 | 0.1751 | 0.11727 |

Device Test: 107.2 I_PGOOD_PD_RES(_PGOOD Internal Resistance VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.7, Upper Limit = 1.9 (Mohm))

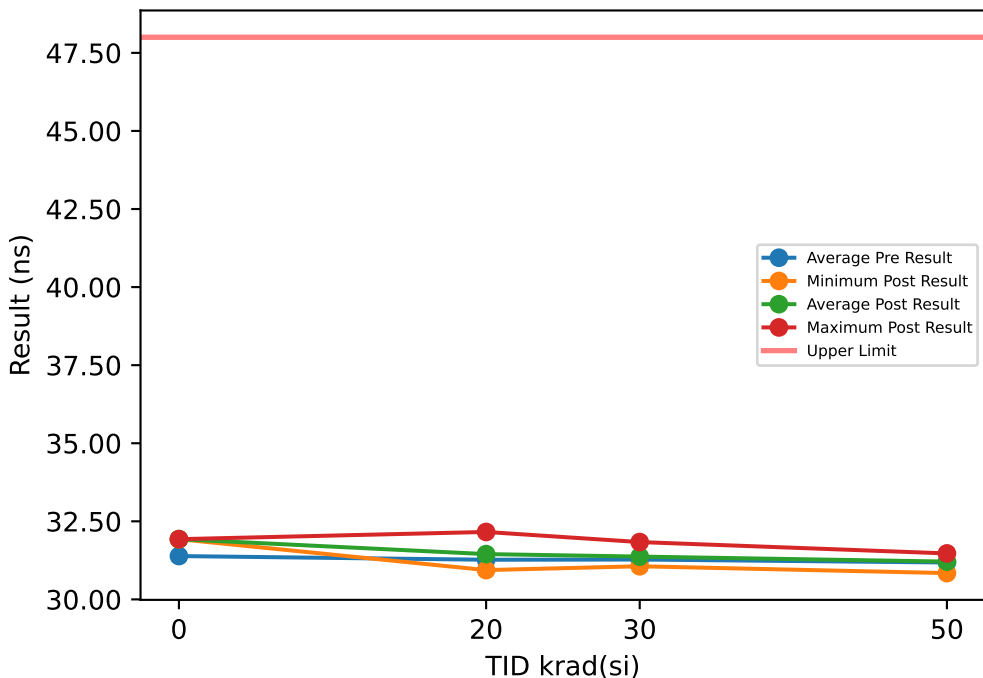
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.059 | 1.0417 | -0.0173 |
| 321 | 20 | HDR unbiased | 1.0315 | 1.0305 | -0.001 |
| 322 | 20 | HDR unbiased | 1.0548 | 1.0509 | -0.0039 |
| 323 | 20 | HDR unbiased | 1.046 | 1.0382 | -0.0078 |
| 324 | 20 | HDR unbiased | 1.0727 | 1.064 | -0.0087 |
| 325 | 20 | HDR unbiased | 1.0681 | 1.0527 | -0.0154 |
| 331 | 30 | HDR unbiased | 1.0423 | 1.029 | -0.0133 |
| 332 | 30 | HDR unbiased | 1.0678 | 1.0492 | -0.0186 |
| 333 | 30 | HDR unbiased | 1.0426 | 1.037 | -0.0056 |
| 334 | 30 | HDR unbiased | 1.0471 | 1.038 | -0.0091 |
| 335 | 30 | HDR unbiased | 1.0332 | 1.0212 | -0.012 |
| 351 | 50 | HDR unbiased | 1.0906 | 1.0319 | -0.0587 |
| 352 | 50 | HDR unbiased | 1.0796 | 1.0755 | -0.0041 |
| 353 | 50 | HDR unbiased | 1.0482 | 1.075 | 0.0268 |
| 354 | 50 | HDR unbiased | 1.0825 | 1.0471 | -0.0354 |
| 355 | 50 | HDR unbiased | 1.0595 | 1.071 | 0.0115 |
| 521 | 20 | HDR biased | 1.0509 | 1.0549 | 0.004 |
| 522 | 20 | HDR biased | 1.0448 | 1.0402 | -0.0046 |
| 523 | 20 | HDR biased | 1.0563 | 1.0503 | -0.006 |
| 524 | 20 | HDR biased | 1.0573 | 1.0471 | -0.0102 |
| 525 | 20 | HDR biased | 1.0514 | 1.0535 | 0.0021 |
| 531 | 30 | HDR biased | 1.0914 | 1.0399 | -0.0515 |
| 532 | 30 | HDR biased | 1.0551 | 1.0705 | 0.0154 |
| 533 | 30 | HDR biased | 1.0694 | 1.0427 | -0.0267 |
| 534 | 30 | HDR biased | 1.0716 | 1.0754 | 0.0038 |
| 535 | 30 | HDR biased | 1.0492 | 1.0891 | 0.0399 |
| 551 | 50 | HDR biased | 1.0539 | 1.046 | -0.0079 |
| 552 | 50 | HDR biased | 1.0464 | 1.0339 | -0.0125 |
| 553 | 50 | HDR biased | 1.0576 | 1.0576 | 0 |
| 554 | 50 | HDR biased | 1.0587 | 1.0452 | -0.0135 |
| 555 | 50 | HDR biased | 1.0917 | 1.0897 | -0.002 |

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 | 1.059 | 1.059 | 1.059 | | 1.0417 | 1.0417 | 1.0417 | | -0.0173 | -0.0173 | -0.0173 | |
| 20 | 1.0315 | 1.0534 | 1.0727 | 0.0111703 | 1.0305 | 1.0482 | 1.064 | 0.0096209 | -0.0154 | -0.00515 | 0.004 | 0.0058337 |
| 30 | 1.0332 | 1.057 | 1.0914 | 0.017699 | 1.0212 | 1.0492 | 1.0891 | 0.021927 | -0.0515 | -0.00777 | 0.0399 | 0.024463 |
| 50 | 1.0464 | 1.0669 | 1.0917 | 0.017413 | 1.0319 | 1.0573 | 1.0897 | 0.019587 | -0.0587 | -0.00958 | 0.0268 | 0.023696 |

Device Test: 110.0 SW_T_LPHL_PWM(_Prop Delay LO Off PWM VIN_10V)

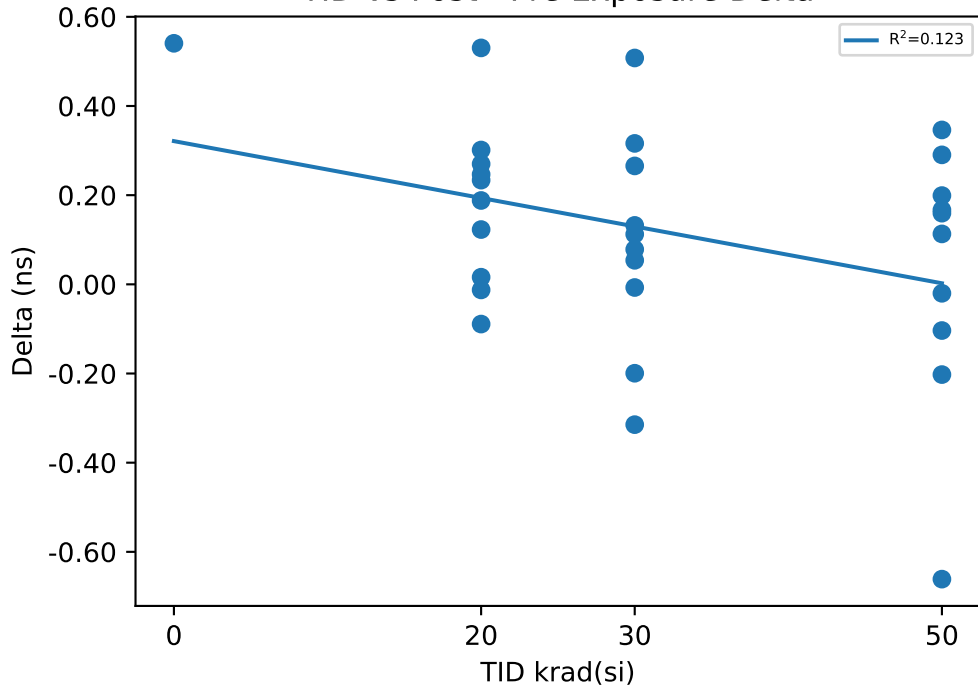
TID vs Result Stats



Test Results (Upper Limit = 48.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 31.388 | 31.928 | 0.5406 |
| 321 | 20 | HDR unbiased | 31.232 | 31.502 | 0.27 |
| 322 | 20 | HDR unbiased | 31.266 | 31.512 | 0.2466 |
| 323 | 20 | HDR unbiased | 31.629 | 32.159 | 0.5303 |
| 324 | 20 | HDR unbiased | 31.332 | 31.348 | 0.016 |
| 325 | 20 | HDR unbiased | 31.245 | 31.368 | 0.1229 |
| 331 | 30 | HDR unbiased | 31.206 | 31.284 | 0.0783 |
| 332 | 30 | HDR unbiased | 31.474 | 31.607 | 0.1322 |
| 333 | 30 | HDR unbiased | 30.949 | 31.215 | 0.2656 |
| 334 | 30 | HDR unbiased | 31.152 | 31.264 | 0.1124 |
| 335 | 30 | HDR unbiased | 31.287 | 31.34 | 0.0539 |
| 351 | 50 | HDR unbiased | 31.081 | 31.427 | 0.3463 |
| 352 | 50 | HDR unbiased | 31.138 | 31.297 | 0.1596 |
| 353 | 50 | HDR unbiased | 31.504 | 30.842 | -0.6612 |
| 354 | 50 | HDR unbiased | 30.835 | 31.126 | 0.2904 |
| 355 | 50 | HDR unbiased | 31.241 | 31.038 | -0.2024 |
| 521 | 20 | HDR biased | 31.156 | 31.344 | 0.1881 |
| 522 | 20 | HDR biased | 31.503 | 31.491 | -0.0125 |
| 523 | 20 | HDR biased | 31.308 | 31.61 | 0.3013 |
| 524 | 20 | HDR biased | 31.027 | 30.938 | -0.0891 |
| 525 | 20 | HDR biased | 30.996 | 31.23 | 0.2337 |
| 531 | 30 | HDR biased | 31.466 | 31.267 | -0.1994 |
| 532 | 30 | HDR biased | 31.068 | 31.061 | -0.0071 |
| 533 | 30 | HDR biased | 31.475 | 31.16 | -0.3147 |
| 534 | 30 | HDR biased | 31.359 | 31.675 | 0.3161 |
| 535 | 30 | HDR biased | 31.328 | 31.836 | 0.5077 |
| 551 | 50 | HDR biased | 31.168 | 31.064 | -0.1036 |
| 552 | 50 | HDR biased | 31.492 | 31.472 | -0.0201 |
| 553 | 50 | HDR biased | 31.102 | 31.268 | 0.1669 |
| 554 | 50 | HDR biased | 31.002 | 31.115 | 0.1131 |
| 555 | 50 | HDR biased | 31.253 | 31.453 | 0.1991 |

TID vs Post - Pre Exposure Delta

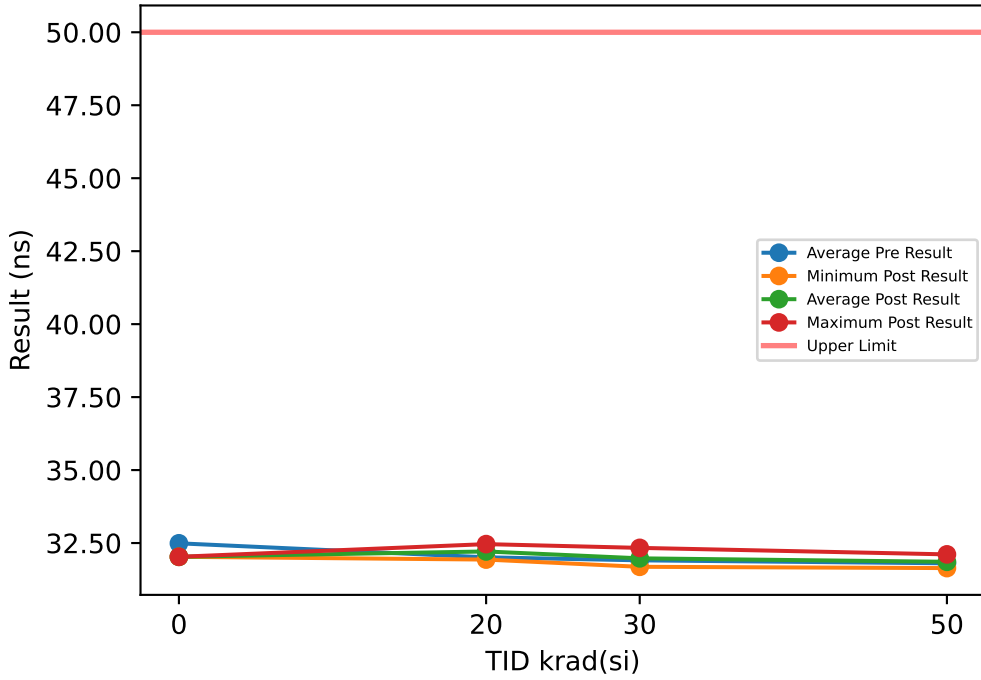


Test Statistics (ns)

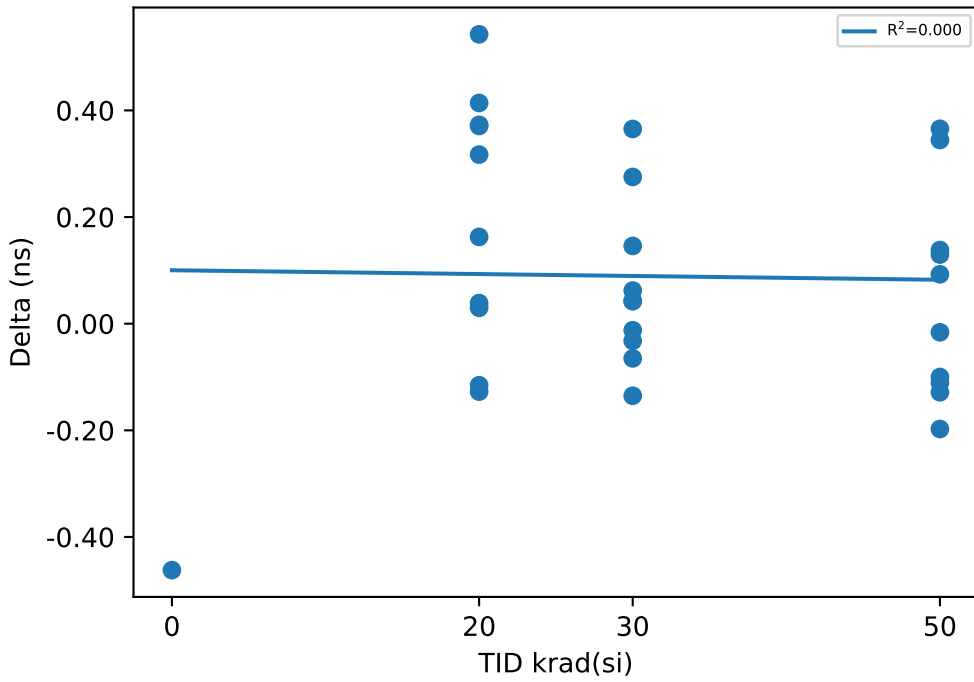
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 31.388 | 31.388 | 31.388 | | 31.928 | 31.928 | 31.928 | | 0.5406 | 0.5406 | 0.5406 | |
| 20 | 30.996 | 31.269 | 31.629 | 0.19369 | 30.938 | 31.45 | 32.159 | 0.31187 | -0.0891 | 0.18073 | 0.5303 | 0.18029 |
| 30 | 30.949 | 31.276 | 31.475 | 0.18111 | 31.061 | 31.371 | 31.836 | 0.24949 | -0.3147 | 0.0945 | 0.5077 | 0.23966 |
| 50 | 30.835 | 31.182 | 31.504 | 0.20536 | 30.842 | 31.21 | 31.472 | 0.20751 | -0.6612 | 0.02881 | 0.3463 | 0.29646 |

Device Test: 110.1 SW_T_HPHL_PWM(_Prop Delay HO Off PWM VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 50.0 (ns))

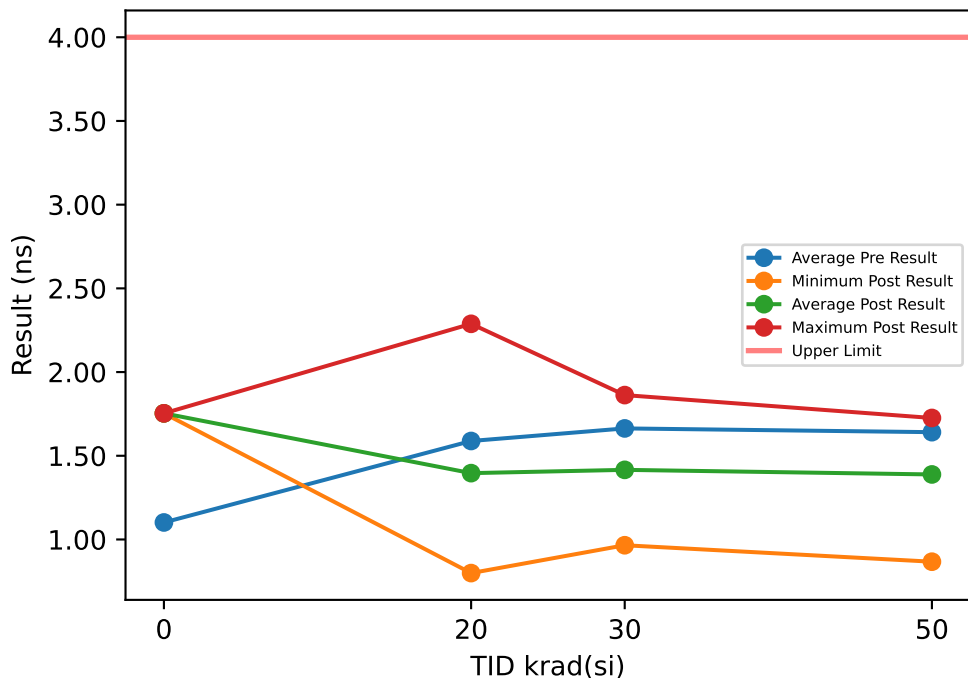
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 32.491 | 32.029 | -0.4622 |
| 321 | 20 | HDR unbiased | 31.757 | 32.299 | 0.5427 |
| 322 | 20 | HDR unbiased | 31.899 | 32.27 | 0.3708 |
| 323 | 20 | HDR unbiased | 31.721 | 32.038 | 0.3171 |
| 324 | 20 | HDR unbiased | 32.107 | 32.137 | 0.0298 |
| 325 | 20 | HDR unbiased | 32.392 | 32.276 | -0.1154 |
| 331 | 30 | HDR unbiased | 32.015 | 31.983 | -0.0322 |
| 332 | 30 | HDR unbiased | 31.821 | 31.686 | -0.1352 |
| 333 | 30 | HDR unbiased | 31.996 | 32.142 | 0.1458 |
| 334 | 30 | HDR unbiased | 31.657 | 31.699 | 0.0423 |
| 335 | 30 | HDR unbiased | 31.962 | 32.004 | 0.0426 |
| 351 | 50 | HDR unbiased | 32.048 | 31.85 | -0.1975 |
| 352 | 50 | HDR unbiased | 31.541 | 31.885 | 0.3445 |
| 353 | 50 | HDR unbiased | 31.776 | 31.905 | 0.1296 |
| 354 | 50 | HDR unbiased | 31.472 | 31.837 | 0.3655 |
| 355 | 50 | HDR unbiased | 31.753 | 31.642 | -0.1107 |
| 521 | 20 | HDR biased | 31.953 | 32.325 | 0.3729 |
| 522 | 20 | HDR biased | 31.895 | 31.934 | 0.0386 |
| 523 | 20 | HDR biased | 32.09 | 32.252 | 0.1627 |
| 524 | 20 | HDR biased | 32.25 | 32.122 | -0.1274 |
| 525 | 20 | HDR biased | 32.049 | 32.463 | 0.4139 |
| 531 | 30 | HDR biased | 32.039 | 32.027 | -0.0123 |
| 532 | 30 | HDR biased | 31.867 | 31.802 | -0.0651 |
| 533 | 30 | HDR biased | 31.848 | 31.91 | 0.0622 |
| 534 | 30 | HDR biased | 31.899 | 32.175 | 0.2752 |
| 535 | 30 | HDR biased | 31.969 | 32.334 | 0.3652 |
| 551 | 50 | HDR biased | 31.637 | 31.775 | 0.1381 |
| 552 | 50 | HDR biased | 31.779 | 31.651 | -0.1286 |
| 553 | 50 | HDR biased | 31.825 | 31.917 | 0.0926 |
| 554 | 50 | HDR biased | 32.101 | 32.001 | -0.1 |
| 555 | 50 | HDR biased | 32.128 | 32.112 | -0.0161 |

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 | 32.491 | 32.491 | 32.491 | | 32.029 | 32.029 | 32.029 | | -0.4622 | -0.4622 | -0.4622 | |
| 20 | 31.721 | 32.011 | 32.392 | 0.21008 | 31.934 | 32.212 | 32.463 | 0.1542 | -0.1274 | 0.20057 | 0.5427 | 0.23548 |
| 30 | 31.657 | 31.907 | 32.039 | 0.11515 | 31.686 | 31.976 | 32.334 | 0.20933 | -0.1352 | 0.06885 | 0.3652 | 0.15425 |
| 50 | 31.472 | 31.806 | 32.128 | 0.22721 | 31.642 | 31.858 | 32.112 | 0.14471 | -0.1975 | 0.05174 | 0.3655 | 0.19664 |

Device Test: 110.11 SW_T_MATCH_OFF(_Delay Match LO Off HO On IIM Interlock VIN_10V)

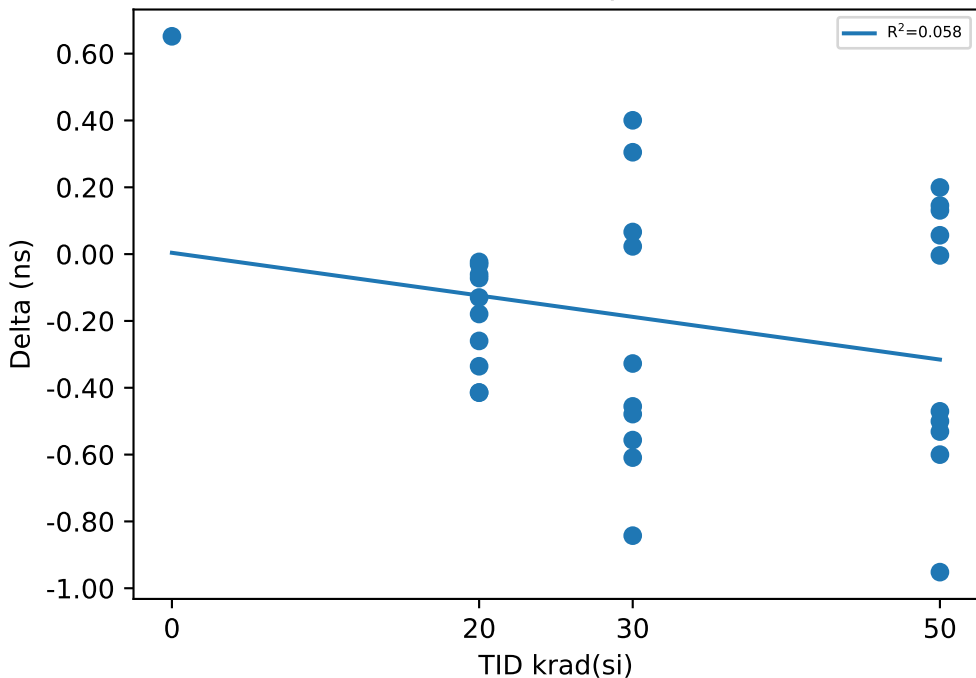
TID vs Result Stats



Test Results (Upper Limit = 4.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.1016 | 1.7535 | 0.6519 |
| 321 | 20 | HDR unbiased | 1.4198 | 1.2406 | -0.1792 |
| 322 | 20 | HDR unbiased | 1.6818 | 1.6585 | -0.0233 |
| 323 | 20 | HDR unbiased | 2.3599 | 2.2882 | -0.0717 |
| 324 | 20 | HDR unbiased | 1.6287 | 1.214 | -0.4147 |
| 325 | 20 | HDR unbiased | 1.5642 | 1.1502 | -0.414 |
| 331 | 30 | HDR unbiased | 1.67 | 1.1134 | -0.5566 |
| 332 | 30 | HDR unbiased | 2.2377 | 1.782 | -0.4557 |
| 333 | 30 | HDR unbiased | 1.1623 | 1.2285 | 0.0662 |
| 334 | 30 | HDR unbiased | 1.5917 | 1.2643 | -0.3274 |
| 335 | 30 | HDR unbiased | 1.9067 | 1.4279 | -0.4788 |
| 351 | 50 | HDR unbiased | 1.4467 | 1.4428 | -0.0039 |
| 352 | 50 | HDR unbiased | 1.5556 | 1.701 | 0.1454 |
| 353 | 50 | HDR unbiased | 1.819 | 0.8672 | -0.9518 |
| 354 | 50 | HDR unbiased | 1.7246 | 1.2244 | -0.5002 |
| 355 | 50 | HDR unbiased | 1.5263 | 1.7258 | 0.1995 |
| 521 | 20 | HDR biased | 1.5721 | 1.5411 | -0.031 |
| 522 | 20 | HDR biased | 1.76 | 1.4244 | -0.3356 |
| 523 | 20 | HDR biased | 1.6901 | 1.5602 | -0.1299 |
| 524 | 20 | HDR biased | 1.059 | 0.7992 | -0.2598 |
| 525 | 20 | HDR biased | 1.1472 | 1.0863 | -0.0609 |
| 531 | 30 | HDR biased | 1.9849 | 1.1423 | -0.8426 |
| 532 | 30 | HDR biased | 1.5526 | 1.8575 | 0.3049 |
| 533 | 30 | HDR biased | 1.5745 | 0.9655 | -0.609 |
| 534 | 30 | HDR biased | 1.4916 | 1.5148 | 0.0232 |
| 535 | 30 | HDR biased | 1.462 | 1.8625 | 0.4005 |
| 551 | 50 | HDR biased | 1.7775 | 1.1774 | -0.6001 |
| 552 | 50 | HDR biased | 2.0633 | 1.5322 | -0.5311 |
| 553 | 50 | HDR biased | 1.2922 | 1.4231 | 0.1309 |
| 554 | 50 | HDR biased | 1.5935 | 1.123 | -0.4705 |
| 555 | 50 | HDR biased | 1.6112 | 1.6676 | 0.0564 |

TID vs Post - Pre Exposure Delta

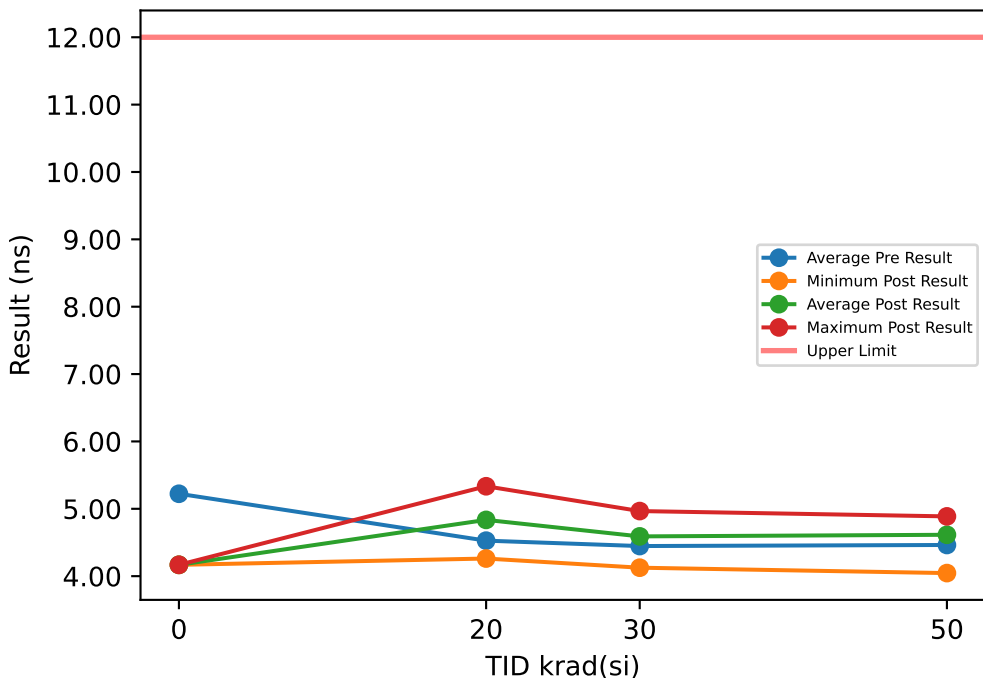


Test Statistics (ns)

| 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 | 1.1016 | 1.1016 | 1.1016 | | 1.7535 | 1.7535 | 1.7535 | | 0.6519 | 0.6519 | 0.6519 | |
| 20 | 1.059 | 1.5883 | 2.3599 | 0.35739 | 0.7992 | 1.3963 | 2.2882 | 0.406 | -0.4147 | -0.19201 | -0.0233 | 0.15426 |
| 30 | 1.1623 | 1.6634 | 2.2377 | 0.30531 | 0.9655 | 1.4159 | 1.8625 | 0.32757 | -0.8426 | -0.24753 | 0.4005 | 0.41904 |
| 50 | 1.2922 | 1.641 | 2.0633 | 0.21568 | 0.8672 | 1.3884 | 1.7258 | 0.28438 | -0.9518 | -0.25254 | 0.1995 | 0.40321 |

Device Test: 110.12 SW_T_MATCH_ON(_Delay Match LO On HO Off IIM Interlock Disable VIN_10V)

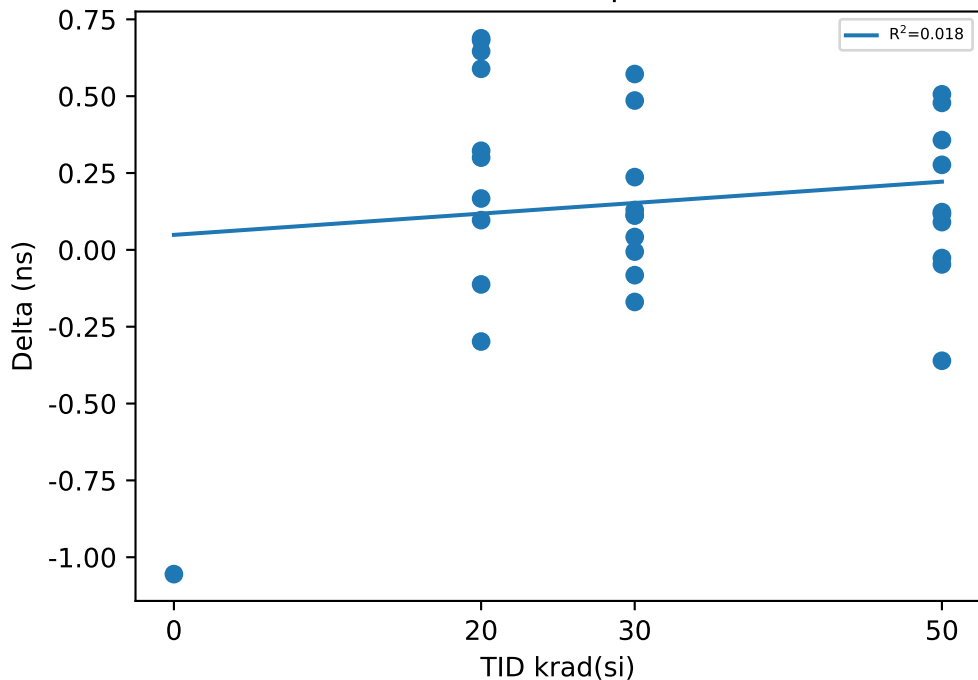
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.2231 | 4.1681 | -1.055 |
| 321 | 20 | HDR unbiased | 4.4275 | 5.1093 | 0.6818 |
| 322 | 20 | HDR unbiased | 4.3585 | 4.9476 | 0.5891 |
| 323 | 20 | HDR unbiased | 4.1119 | 4.4343 | 0.3224 |
| 324 | 20 | HDR unbiased | 4.6348 | 4.7315 | 0.0967 |
| 325 | 20 | HDR unbiased | 5.0501 | 4.7519 | -0.2982 |
| 331 | 30 | HDR unbiased | 4.6422 | 4.5599 | -0.0823 |
| 332 | 30 | HDR unbiased | 4.2952 | 4.1257 | -0.1695 |
| 333 | 30 | HDR unbiased | 4.8018 | 4.9315 | 0.1297 |
| 334 | 30 | HDR unbiased | 4.2676 | 4.381 | 0.1134 |
| 335 | 30 | HDR unbiased | 4.5497 | 4.5441 | -0.0056 |
| 351 | 50 | HDR unbiased | 4.8735 | 4.5127 | -0.3608 |
| 352 | 50 | HDR unbiased | 4.3804 | 4.8865 | 0.5061 |
| 353 | 50 | HDR unbiased | 4.2952 | 4.7734 | 0.4782 |
| 354 | 50 | HDR unbiased | 4.5054 | 4.6219 | 0.1165 |
| 355 | 50 | HDR unbiased | 4.488 | 4.5783 | 0.0903 |
| 521 | 20 | HDR biased | 4.4809 | 5.1692 | 0.6883 |
| 522 | 20 | HDR biased | 4.0945 | 4.2616 | 0.1671 |
| 523 | 20 | HDR biased | 4.4806 | 4.7807 | 0.3001 |
| 524 | 20 | HDR biased | 4.9436 | 4.8312 | -0.1124 |
| 525 | 20 | HDR biased | 4.6884 | 5.3345 | 0.6461 |
| 531 | 30 | HDR biased | 4.4844 | 4.5262 | 0.0418 |
| 532 | 30 | HDR biased | 4.3911 | 4.5027 | 0.1116 |
| 533 | 30 | HDR biased | 4.2289 | 4.4656 | 0.2367 |
| 534 | 30 | HDR biased | 4.4804 | 4.9663 | 0.4859 |
| 535 | 30 | HDR biased | 4.3289 | 4.901 | 0.5721 |
| 551 | 50 | HDR biased | 4.0594 | 4.3361 | 0.2767 |
| 552 | 50 | HDR biased | 4.0929 | 4.0456 | -0.0473 |
| 553 | 50 | HDR biased | 4.3612 | 4.7184 | 0.3572 |
| 554 | 50 | HDR biased | 4.8081 | 4.7815 | -0.0266 |
| 555 | 50 | HDR biased | 4.7646 | 4.8874 | 0.1228 |

TID vs Post - Pre Exposure Delta

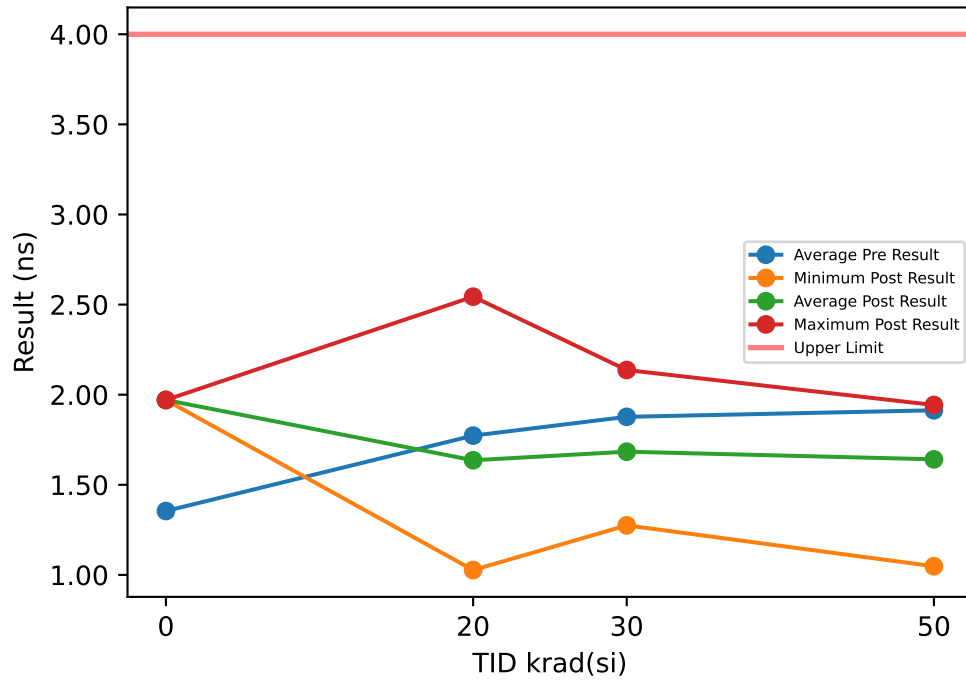


Test Statistics (ns)

| 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 | 5.2231 | 5.2231 | 5.2231 | | 4.1681 | 4.1681 | 4.1681 | | -1.055 | -1.055 | -1.055 | |
| 20 | 4.0945 | 4.5271 | 5.0501 | 0.3139 | 4.2616 | 4.8352 | 5.3345 | 0.32643 | -0.2982 | 0.3081 | 0.6883 | 0.34748 |
| 30 | 4.2289 | 4.447 | 4.8018 | 0.18163 | 4.1257 | 4.5904 | 4.9663 | 0.26758 | -0.1695 | 0.14338 | 0.5721 | 0.23411 |
| 50 | 4.0594 | 4.4629 | 4.8735 | 0.28406 | 4.0456 | 4.6142 | 4.8874 | 0.26358 | -0.3608 | 0.15131 | 0.5061 | 0.26456 |

Device Test: 110.13 SW_T_MATCH_OFF(_Delay Match LO Off HO On IIM Interlock Disable VIN_10V)

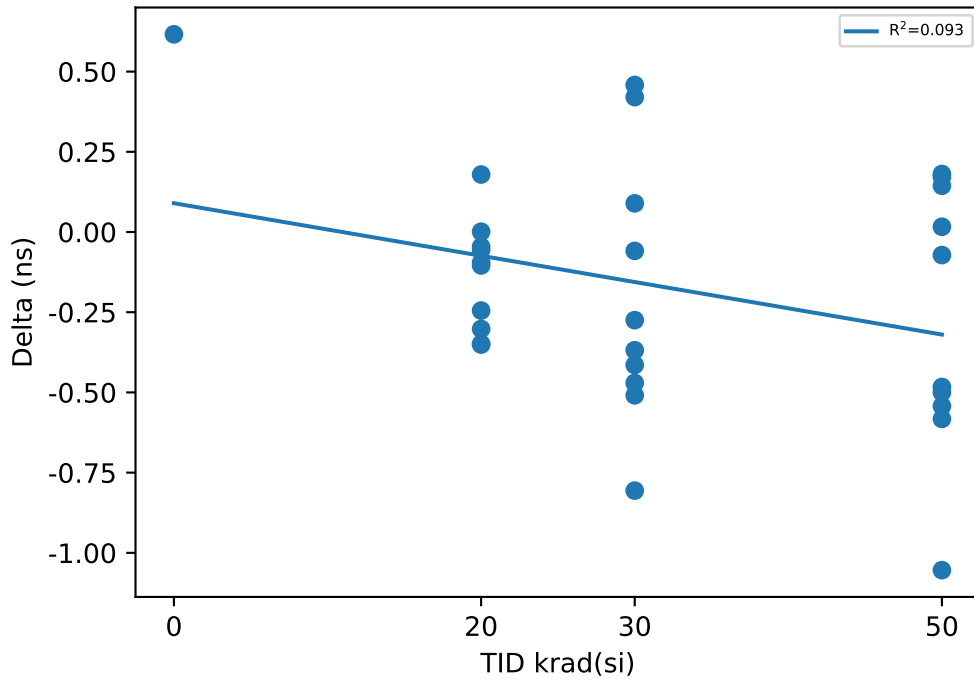
TID vs Result Stats



Test Results (Upper Limit = 4.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.3545 | 1.9707 | 0.6162 |
| 321 | 20 | HDR unbiased | 1.5703 | 1.5141 | -0.0562 |
| 322 | 20 | HDR unbiased | 1.7827 | 1.9619 | 0.1792 |
| 323 | 20 | HDR unbiased | 2.543 | 2.5439 | 0.0009 |
| 324 | 20 | HDR unbiased | 1.828 | 1.4794 | -0.3486 |
| 325 | 20 | HDR unbiased | 1.7515 | 1.4007 | -0.3508 |
| 331 | 30 | HDR unbiased | 1.8413 | 1.4269 | -0.4144 |
| 332 | 30 | HDR unbiased | 2.4388 | 1.9685 | -0.4703 |
| 333 | 30 | HDR unbiased | 1.5641 | 1.5052 | -0.0589 |
| 334 | 30 | HDR unbiased | 1.8045 | 1.5298 | -0.2747 |
| 335 | 30 | HDR unbiased | 2.1078 | 1.7393 | -0.3685 |
| 351 | 50 | HDR unbiased | 1.7948 | 1.7229 | -0.0719 |
| 352 | 50 | HDR unbiased | 1.7913 | 1.9356 | 0.1443 |
| 353 | 50 | HDR unbiased | 2.1018 | 1.0479 | -1.0539 |
| 354 | 50 | HDR unbiased | 1.9436 | 1.4439 | -0.4997 |
| 355 | 50 | HDR unbiased | 1.7714 | 1.9429 | 0.1715 |
| 521 | 20 | HDR biased | 1.8594 | 1.8134 | -0.046 |
| 522 | 20 | HDR biased | 1.9989 | 1.6968 | -0.3021 |
| 523 | 20 | HDR biased | 1.8861 | 1.7819 | -0.1042 |
| 524 | 20 | HDR biased | 1.1218 | 1.0268 | -0.095 |
| 525 | 20 | HDR biased | 1.387 | 1.1422 | -0.2448 |
| 531 | 30 | HDR biased | 2.2175 | 1.4114 | -0.8061 |
| 532 | 30 | HDR biased | 1.7165 | 2.137 | 0.4205 |
| 533 | 30 | HDR biased | 1.784 | 1.275 | -0.509 |
| 534 | 30 | HDR biased | 1.6877 | 1.777 | 0.0893 |
| 535 | 30 | HDR biased | 1.6094 | 2.0677 | 0.4583 |
| 551 | 50 | HDR biased | 1.9935 | 1.5105 | -0.483 |
| 552 | 50 | HDR biased | 2.3754 | 1.8329 | -0.5425 |
| 553 | 50 | HDR biased | 1.5979 | 1.7788 | 0.1809 |
| 554 | 50 | HDR biased | 1.934 | 1.3514 | -0.5826 |
| 555 | 50 | HDR biased | 1.8306 | 1.847 | 0.0164 |

TID vs Post - Pre Exposure Delta

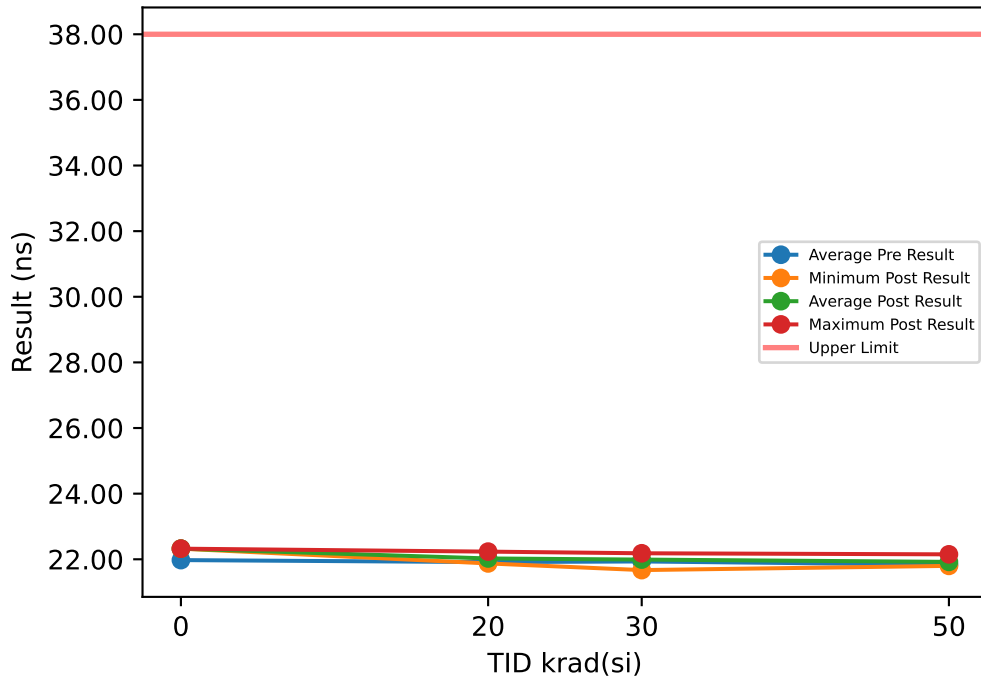


Test Statistics (ns)

| 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 | 1.3545 | 1.3545 | 1.3545 | | 1.9707 | 1.9707 | 1.9707 | | 0.6162 | 0.6162 | 0.6162 | |
| 20 | 1.1218 | 1.7729 | 2.543 | 0.37741 | 1.0268 | 1.6361 | 2.5439 | 0.43419 | -0.3508 | -0.13676 | 0.1792 | 0.17192 |
| 30 | 1.5641 | 1.8772 | 2.4388 | 0.28502 | 1.275 | 1.6838 | 2.137 | 0.29973 | -0.8061 | -0.19338 | 0.4583 | 0.4133 |
| 50 | 1.5979 | 1.9134 | 2.3754 | 0.21402 | 1.0479 | 1.6414 | 1.9429 | 0.29333 | -1.0539 | -0.27205 | 0.1809 | 0.41842 |

Device Test: 110.2 SW_T_LPLH_IIM(Prop Delay LO On IIM Interlock VIN_10V)

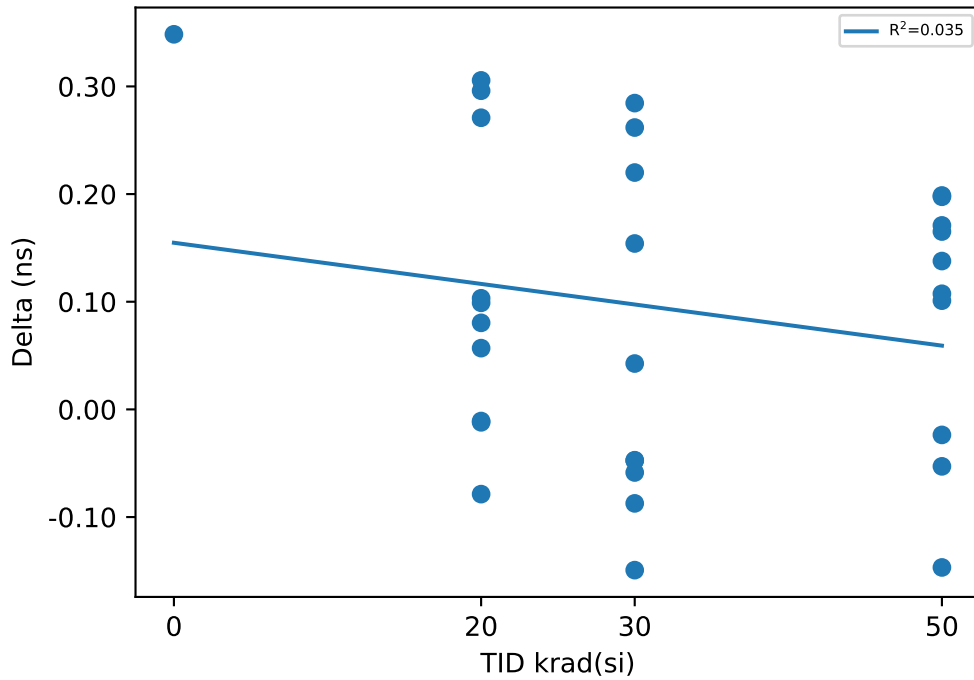
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 21.975 | 22.324 | 0.3484 |
| 321 | 20 | HDR unbiased | 22.035 | 22.023 | -0.012 |
| 322 | 20 | HDR unbiased | 21.831 | 21.911 | 0.0804 |
| 323 | 20 | HDR unbiased | 21.885 | 22.19 | 0.3056 |
| 324 | 20 | HDR unbiased | 21.817 | 21.874 | 0.0569 |
| 325 | 20 | HDR unbiased | 21.663 | 21.934 | 0.2709 |
| 331 | 30 | HDR unbiased | 21.865 | 22.127 | 0.2618 |
| 332 | 30 | HDR unbiased | 21.717 | 22.002 | 0.2845 |
| 333 | 30 | HDR unbiased | 21.826 | 22.046 | 0.22 |
| 334 | 30 | HDR unbiased | 21.957 | 21.91 | -0.0472 |
| 335 | 30 | HDR unbiased | 21.988 | 21.94 | -0.0476 |
| 351 | 50 | HDR unbiased | 21.666 | 21.837 | 0.1709 |
| 352 | 50 | HDR unbiased | 21.701 | 21.808 | 0.1074 |
| 353 | 50 | HDR unbiased | 21.852 | 21.799 | -0.0529 |
| 354 | 50 | HDR unbiased | 21.663 | 21.828 | 0.1652 |
| 355 | 50 | HDR unbiased | 21.698 | 21.799 | 0.101 |
| 521 | 20 | HDR biased | 21.963 | 22.066 | 0.1032 |
| 522 | 20 | HDR biased | 22.312 | 22.233 | -0.0787 |
| 523 | 20 | HDR biased | 22.099 | 22.198 | 0.099 |
| 524 | 20 | HDR biased | 21.639 | 21.935 | 0.296 |
| 525 | 20 | HDR biased | 21.898 | 21.887 | -0.0108 |
| 531 | 30 | HDR biased | 21.941 | 22.095 | 0.1541 |
| 532 | 30 | HDR biased | 21.82 | 21.671 | -0.1493 |
| 533 | 30 | HDR biased | 22.173 | 22.086 | -0.0873 |
| 534 | 30 | HDR biased | 21.908 | 21.85 | -0.0586 |
| 535 | 30 | HDR biased | 22.14 | 22.183 | 0.0426 |
| 551 | 50 | HDR biased | 22.144 | 22.121 | -0.0237 |
| 552 | 50 | HDR biased | 22.013 | 22.151 | 0.1378 |
| 553 | 50 | HDR biased | 22.094 | 21.948 | -0.1468 |
| 554 | 50 | HDR biased | 21.751 | 21.949 | 0.1975 |
| 555 | 50 | HDR biased | 21.772 | 21.97 | 0.1987 |

TID vs Post - Pre Exposure Delta

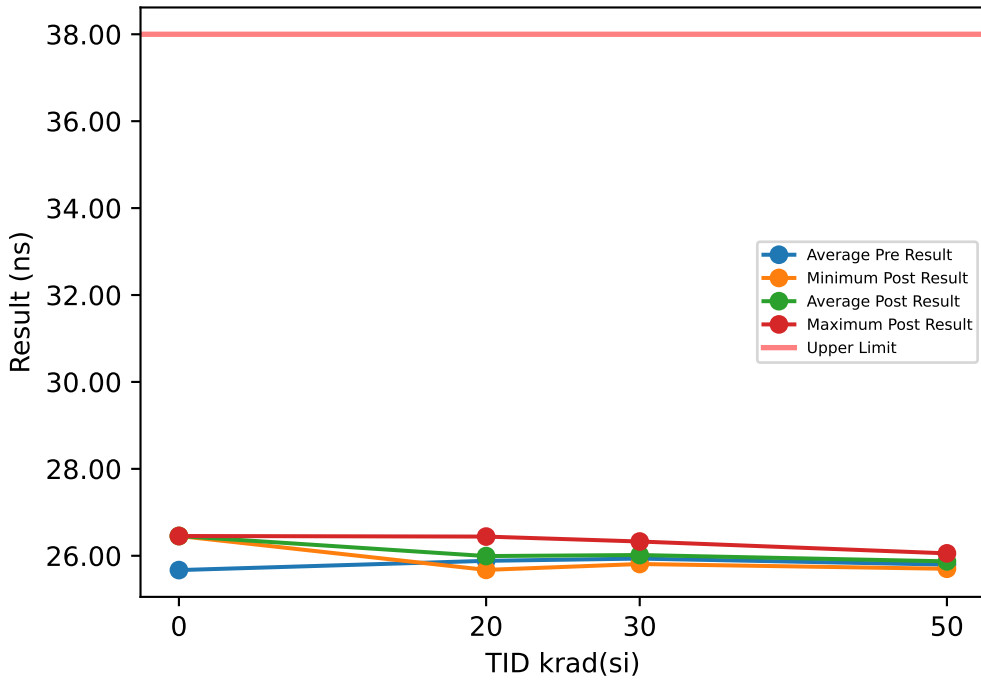


Test Statistics (ns)

| 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 | 21.975 | 21.975 | 21.975 | | 22.324 | 22.324 | 22.324 | | 0.3484 | 0.3484 | 0.3484 | |
| 20 | 21.639 | 21.914 | 22.312 | 0.20156 | 21.874 | 22.025 | 22.233 | 0.13897 | -0.0787 | 0.11105 | 0.3056 | 0.1365 |
| 30 | 21.717 | 21.934 | 22.173 | 0.14154 | 21.671 | 21.991 | 22.183 | 0.15273 | -0.1493 | 0.0573 | 0.2845 | 0.15932 |
| 50 | 21.663 | 21.836 | 22.144 | 0.18272 | 21.799 | 21.921 | 22.151 | 0.13098 | -0.1468 | 0.08551 | 0.1987 | 0.11902 |

Device Test: 110.3 SW_T_LPHL_IIM(Prop Delay LO Off IIM Interlock VIN_10V)

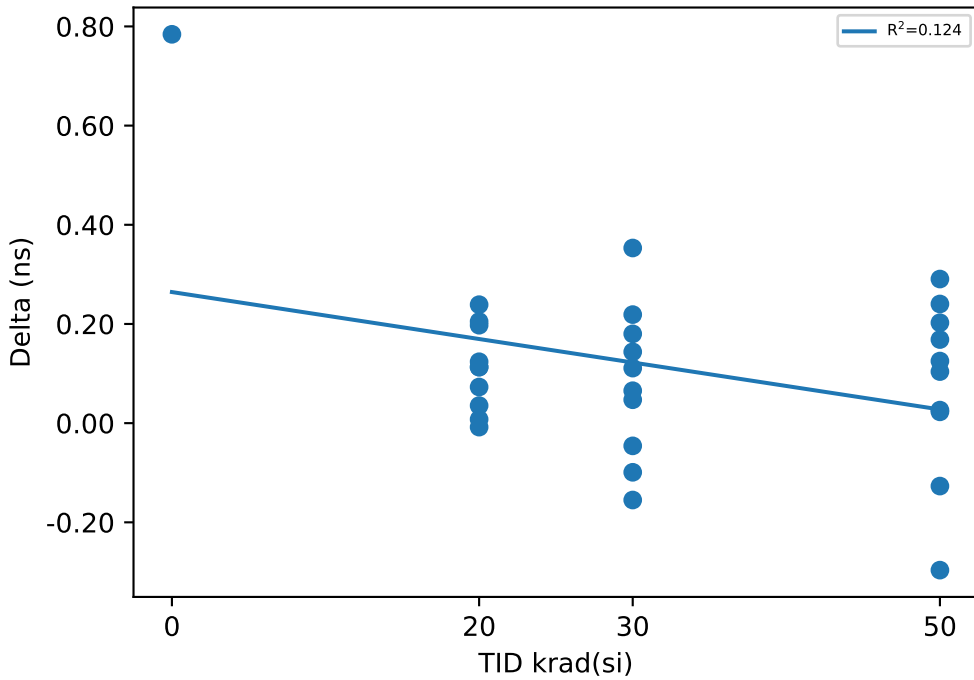
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 25.671 | 26.455 | 0.7841 |
| 321 | 20 | HDR unbiased | 25.923 | 25.915 | -0.008 |
| 322 | 20 | HDR unbiased | 25.756 | 25.869 | 0.113 |
| 323 | 20 | HDR unbiased | 26.244 | 26.442 | 0.1975 |
| 324 | 20 | HDR unbiased | 25.886 | 25.893 | 0.0077 |
| 325 | 20 | HDR unbiased | 25.732 | 25.937 | 0.2049 |
| 331 | 30 | HDR unbiased | 25.926 | 26.069 | 0.1438 |
| 332 | 30 | HDR unbiased | 25.971 | 26.151 | 0.1801 |
| 333 | 30 | HDR unbiased | 25.663 | 25.882 | 0.2189 |
| 334 | 30 | HDR unbiased | 25.995 | 26.042 | 0.0472 |
| 335 | 30 | HDR unbiased | 26.072 | 26.026 | -0.0458 |
| 351 | 50 | HDR unbiased | 25.773 | 26.014 | 0.2403 |
| 352 | 50 | HDR unbiased | 25.735 | 25.86 | 0.1252 |
| 353 | 50 | HDR unbiased | 25.997 | 25.701 | -0.2964 |
| 354 | 50 | HDR unbiased | 25.528 | 25.819 | 0.2906 |
| 355 | 50 | HDR unbiased | 25.743 | 25.766 | 0.0228 |
| 521 | 20 | HDR biased | 25.906 | 25.979 | 0.0729 |
| 522 | 20 | HDR biased | 26.142 | 26.177 | 0.0354 |
| 523 | 20 | HDR biased | 26.029 | 26.268 | 0.2389 |
| 524 | 20 | HDR biased | 25.551 | 25.675 | 0.1238 |
| 525 | 20 | HDR biased | 25.666 | 25.779 | 0.1131 |
| 531 | 30 | HDR biased | 26.097 | 25.998 | -0.0991 |
| 532 | 30 | HDR biased | 25.745 | 25.811 | 0.0654 |
| 533 | 30 | HDR biased | 26.043 | 25.888 | -0.155 |
| 534 | 30 | HDR biased | 25.868 | 25.979 | 0.111 |
| 535 | 30 | HDR biased | 25.975 | 26.328 | 0.3532 |
| 551 | 50 | HDR biased | 25.953 | 25.826 | -0.1269 |
| 552 | 50 | HDR biased | 25.952 | 26.056 | 0.104 |
| 553 | 50 | HDR biased | 25.749 | 25.775 | 0.0263 |
| 554 | 50 | HDR biased | 25.701 | 25.87 | 0.1686 |
| 555 | 50 | HDR biased | 25.829 | 26.031 | 0.2025 |

TID vs Post - Pre Exposure Delta

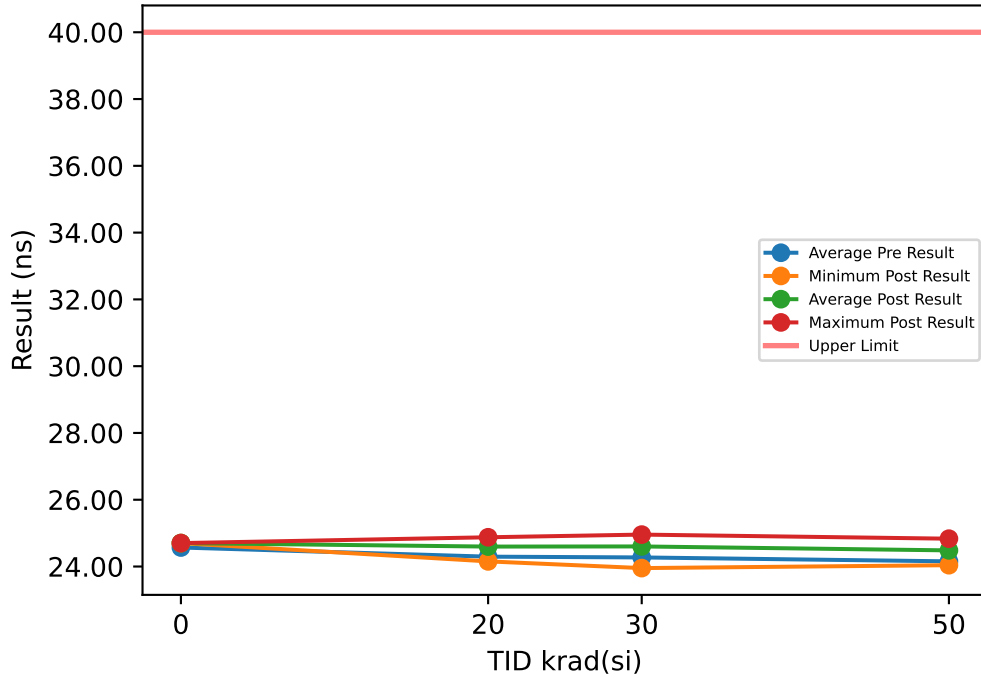


Test Statistics (ns)

| 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 | 25.671 | 25.671 | 25.671 | | 26.455 | 26.455 | 26.455 | | 0.7841 | 0.7841 | 0.7841 | |
| 20 | 25.551 | 25.884 | 26.244 | 0.21522 | 25.675 | 25.994 | 26.442 | 0.23386 | -0.008 | 0.10992 | 0.2389 | 0.084864 |
| 30 | 25.663 | 25.935 | 26.097 | 0.14057 | 25.811 | 26.017 | 26.328 | 0.14825 | -0.155 | 0.08197 | 0.3532 | 0.15397 |
| 50 | 25.528 | 25.796 | 25.997 | 0.14155 | 25.701 | 25.872 | 26.056 | 0.12217 | -0.2964 | 0.0757 | 0.2906 | 0.17826 |

Device Test: 110.4 SW_T_HPLH_IIM(Prop Delay HO On IIM Interlock VIN_10V)

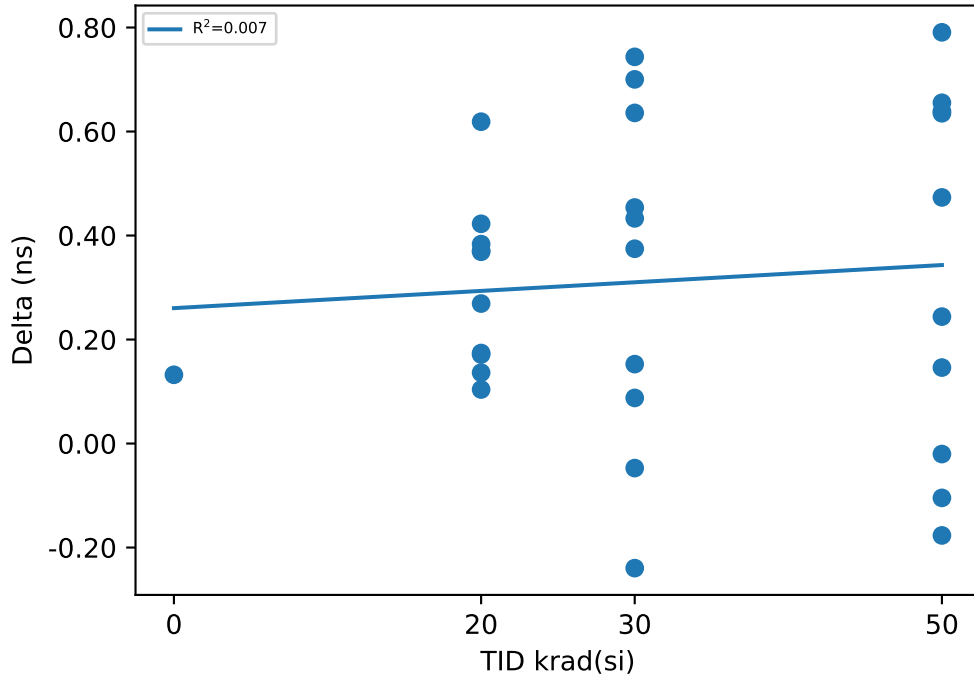
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 24.569 | 24.701 | 0.1322 |
| 321 | 20 | HDR unbiased | 24.503 | 24.675 | 0.1712 |
| 322 | 20 | HDR unbiased | 24.075 | 24.211 | 0.1363 |
| 323 | 20 | HDR unbiased | 23.884 | 24.154 | 0.2692 |
| 324 | 20 | HDR unbiased | 24.257 | 24.68 | 0.4226 |
| 325 | 20 | HDR unbiased | 24.168 | 24.786 | 0.6189 |
| 331 | 30 | HDR unbiased | 24.256 | 24.956 | 0.7003 |
| 332 | 30 | HDR unbiased | 23.733 | 24.369 | 0.6358 |
| 333 | 30 | HDR unbiased | 24.5 | 24.653 | 0.1527 |
| 334 | 30 | HDR unbiased | 24.403 | 24.778 | 0.3746 |
| 335 | 30 | HDR unbiased | 24.165 | 24.598 | 0.433 |
| 351 | 50 | HDR unbiased | 24.327 | 24.571 | 0.2441 |
| 352 | 50 | HDR unbiased | 24.18 | 24.16 | -0.0202 |
| 353 | 50 | HDR unbiased | 24.178 | 24.834 | 0.6553 |
| 354 | 50 | HDR unbiased | 23.803 | 24.594 | 0.7908 |
| 355 | 50 | HDR unbiased | 24.216 | 24.04 | -0.1767 |
| 521 | 20 | HDR biased | 24.334 | 24.438 | 0.1039 |
| 522 | 20 | HDR biased | 24.382 | 24.753 | 0.371 |
| 523 | 20 | HDR biased | 24.339 | 24.708 | 0.3688 |
| 524 | 20 | HDR biased | 24.492 | 24.876 | 0.3835 |
| 525 | 20 | HDR biased | 24.519 | 24.693 | 0.1741 |
| 531 | 30 | HDR biased | 24.112 | 24.855 | 0.7436 |
| 532 | 30 | HDR biased | 24.193 | 23.953 | -0.2396 |
| 533 | 30 | HDR biased | 24.469 | 24.922 | 0.4539 |
| 534 | 30 | HDR biased | 24.376 | 24.464 | 0.0877 |
| 535 | 30 | HDR biased | 24.513 | 24.466 | -0.0472 |
| 551 | 50 | HDR biased | 24.175 | 24.648 | 0.4733 |
| 552 | 50 | HDR biased | 23.888 | 24.523 | 0.6351 |
| 553 | 50 | HDR biased | 24.457 | 24.352 | -0.1045 |
| 554 | 50 | HDR biased | 24.108 | 24.747 | 0.6391 |
| 555 | 50 | HDR biased | 24.218 | 24.364 | 0.1461 |

TID vs Post - Pre Exposure Delta

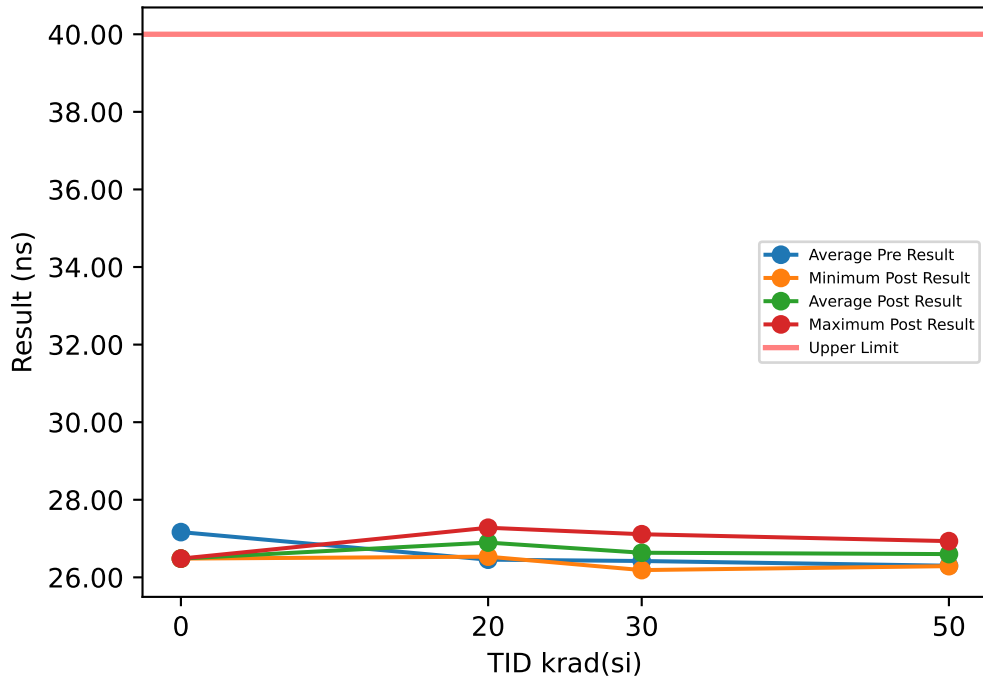


Test Statistics (ns)

| 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 | 24.569 | 24.569 | 24.569 | | 24.701 | 24.701 | 24.701 | | 0.1322 | 0.1322 | 0.1322 | |
| 20 | 23.884 | 24.295 | 24.519 | 0.20505 | 24.154 | 24.597 | 24.876 | 0.2457 | 0.1039 | 0.30195 | 0.6189 | 0.16058 |
| 30 | 23.733 | 24.272 | 24.513 | 0.23823 | 23.953 | 24.601 | 24.956 | 0.30526 | -0.2396 | 0.32948 | 0.7436 | 0.33108 |
| 50 | 23.803 | 24.155 | 24.457 | 0.19054 | 24.04 | 24.483 | 24.834 | 0.25251 | -0.1767 | 0.32824 | 0.7908 | 0.35538 |

Device Test: 110.5 SW_T_HPHL_IIM(Prop Delay HO Off IIM Interlock VIN_10V)

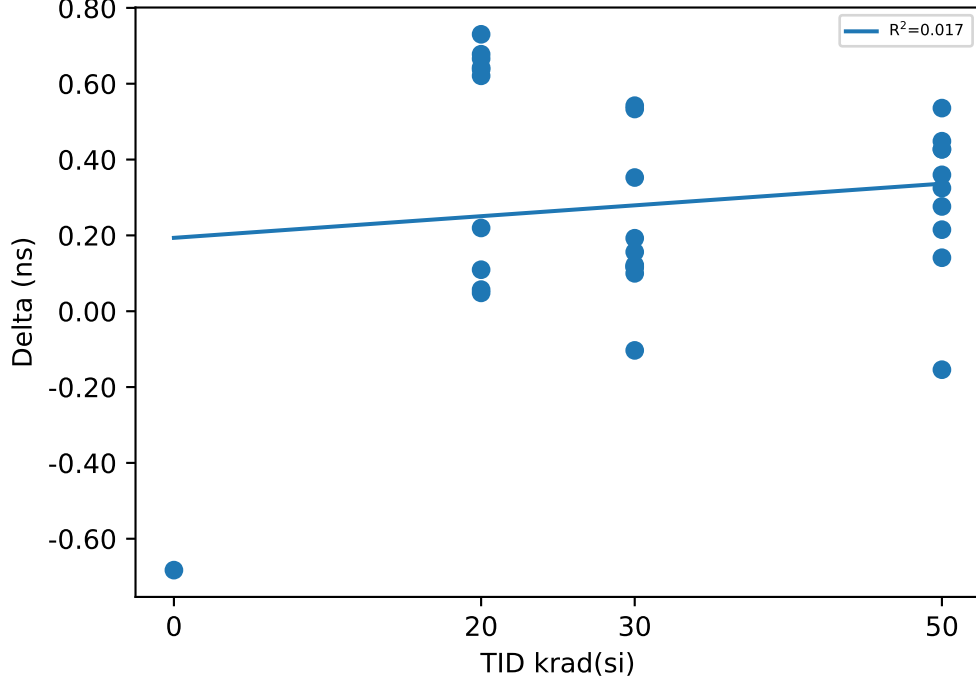
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 27.166 | 26.484 | -0.6828 |
| 321 | 20 | HDR unbiased | 26.448 | 27.179 | 0.7303 |
| 322 | 20 | HDR unbiased | 26.181 | 26.847 | 0.6661 |
| 323 | 20 | HDR unbiased | 26.07 | 26.707 | 0.6376 |
| 324 | 20 | HDR unbiased | 26.384 | 26.604 | 0.2196 |
| 325 | 20 | HDR unbiased | 26.657 | 26.705 | 0.0484 |
| 331 | 30 | HDR unbiased | 26.453 | 26.645 | 0.1925 |
| 332 | 30 | HDR unbiased | 26.088 | 26.188 | 0.0999 |
| 333 | 30 | HDR unbiased | 26.729 | 27.082 | 0.3526 |
| 334 | 30 | HDR unbiased | 26.273 | 26.391 | 0.118 |
| 335 | 30 | HDR unbiased | 26.46 | 26.576 | 0.1155 |
| 351 | 50 | HDR unbiased | 26.582 | 26.428 | -0.1542 |
| 352 | 50 | HDR unbiased | 26.185 | 26.721 | 0.5357 |
| 353 | 50 | HDR unbiased | 26.253 | 26.613 | 0.3597 |
| 354 | 50 | HDR unbiased | 26.008 | 26.435 | 0.4272 |
| 355 | 50 | HDR unbiased | 26.229 | 26.553 | 0.3247 |
| 521 | 20 | HDR biased | 26.598 | 27.219 | 0.6208 |
| 522 | 20 | HDR biased | 26.424 | 26.533 | 0.1095 |
| 523 | 20 | HDR biased | 26.517 | 27.16 | 0.6427 |
| 524 | 20 | HDR biased | 26.676 | 26.733 | 0.057 |
| 525 | 20 | HDR biased | 26.601 | 27.279 | 0.6778 |
| 531 | 30 | HDR biased | 26.522 | 26.644 | 0.1217 |
| 532 | 30 | HDR biased | 26.316 | 26.213 | -0.1033 |
| 533 | 30 | HDR biased | 26.395 | 26.551 | 0.1563 |
| 534 | 30 | HDR biased | 26.403 | 26.945 | 0.5421 |
| 535 | 30 | HDR biased | 26.579 | 27.112 | 0.5333 |
| 551 | 50 | HDR biased | 26.218 | 26.495 | 0.2763 |
| 552 | 50 | HDR biased | 26.074 | 26.289 | 0.2151 |
| 553 | 50 | HDR biased | 26.358 | 26.807 | 0.4484 |
| 554 | 50 | HDR biased | 26.583 | 26.724 | 0.1411 |
| 555 | 50 | HDR biased | 26.507 | 26.934 | 0.427 |

TID vs Post - Pre Exposure Delta

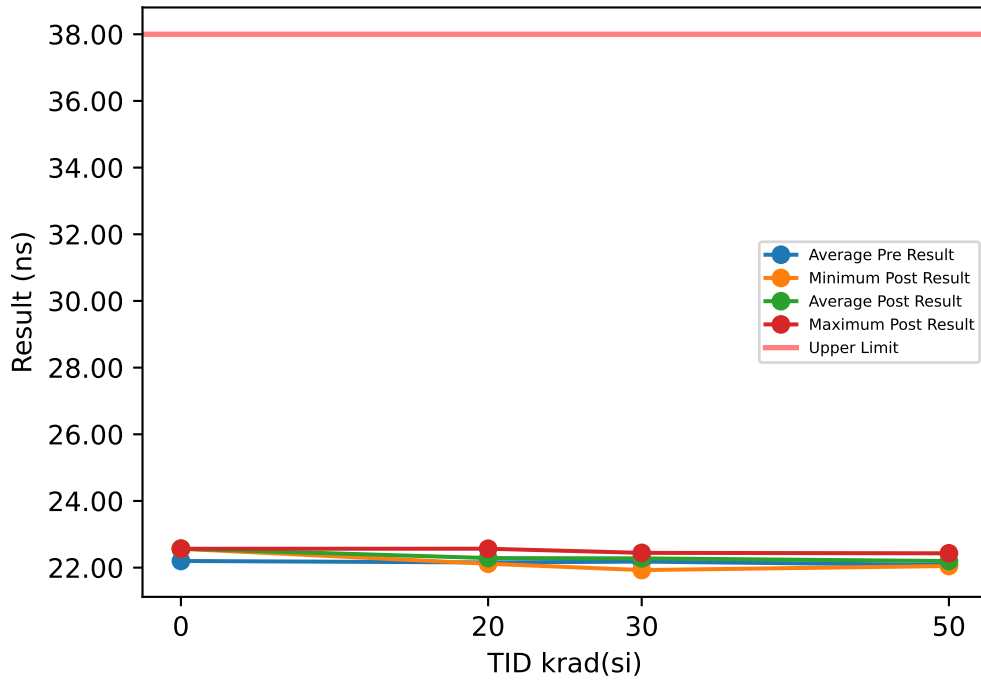


Test Statistics (ns)

| 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 | 27.166 | 27.166 | 27.166 | | 26.484 | 26.484 | 26.484 | | -0.6828 | -0.6828 | -0.6828 | |
| 20 | 26.07 | 26.456 | 26.676 | 0.20147 | 26.533 | 26.897 | 27.279 | 0.28249 | 0.0484 | 0.44098 | 0.7303 | 0.29109 |
| 30 | 26.088 | 26.422 | 26.729 | 0.1756 | 26.188 | 26.635 | 27.112 | 0.32853 | -0.1033 | 0.21286 | 0.5421 | 0.20378 |
| 50 | 26.008 | 26.3 | 26.583 | 0.20255 | 26.289 | 26.6 | 26.934 | 0.19741 | -0.1542 | 0.3001 | 0.5357 | 0.19815 |

Device Test: 110.6 SW_T_LPLH_IIM(Prop Delay LO On IIM Interlock Disable VIN_10V)

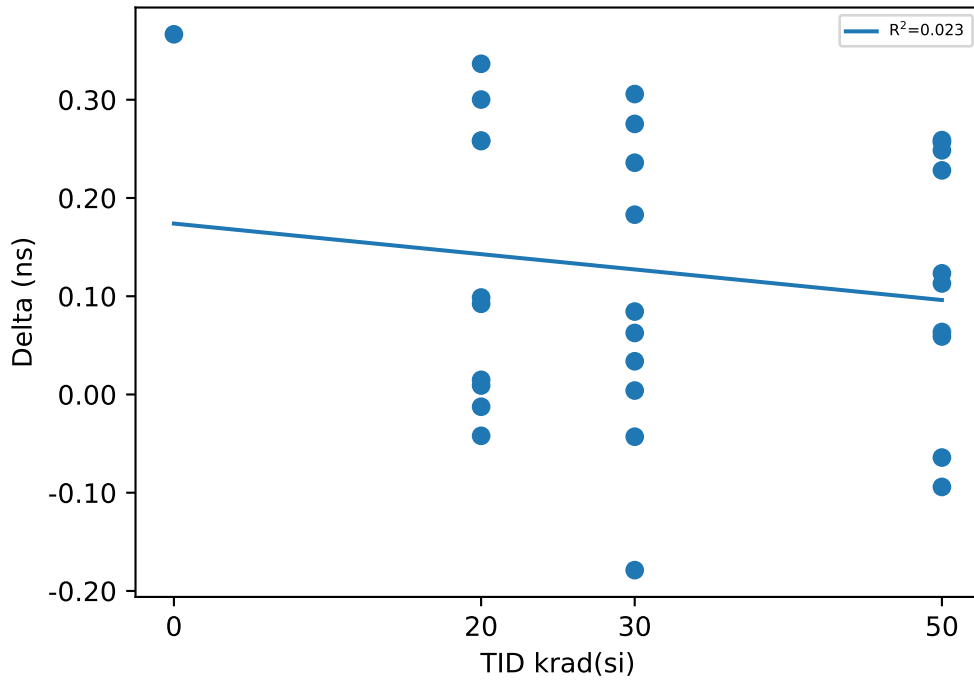
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 22.2 | 22.566 | 0.3666 |
| 321 | 20 | HDR unbiased | 22.238 | 22.248 | 0.0091 |
| 322 | 20 | HDR unbiased | 22.086 | 22.178 | 0.0923 |
| 323 | 20 | HDR unbiased | 22.171 | 22.471 | 0.3002 |
| 324 | 20 | HDR unbiased | 22.018 | 22.117 | 0.0987 |
| 325 | 20 | HDR unbiased | 21.865 | 22.202 | 0.3366 |
| 331 | 30 | HDR unbiased | 22.057 | 22.363 | 0.3058 |
| 332 | 30 | HDR unbiased | 21.986 | 22.261 | 0.2754 |
| 333 | 30 | HDR unbiased | 22.174 | 22.41 | 0.2359 |
| 334 | 30 | HDR unbiased | 22.188 | 22.222 | 0.0338 |
| 335 | 30 | HDR unbiased | 22.171 | 22.234 | 0.0626 |
| 351 | 50 | HDR unbiased | 21.889 | 22.117 | 0.2281 |
| 352 | 50 | HDR unbiased | 21.986 | 22.049 | 0.0636 |
| 353 | 50 | HDR unbiased | 22.143 | 22.049 | -0.0941 |
| 354 | 50 | HDR unbiased | 21.791 | 22.05 | 0.2589 |
| 355 | 50 | HDR unbiased | 22.021 | 22.134 | 0.113 |
| 521 | 20 | HDR biased | 22.296 | 22.254 | -0.0421 |
| 522 | 20 | HDR biased | 22.483 | 22.498 | 0.0149 |
| 523 | 20 | HDR biased | 22.309 | 22.567 | 0.2579 |
| 524 | 20 | HDR biased | 21.903 | 22.162 | 0.2585 |
| 525 | 20 | HDR biased | 22.186 | 22.174 | -0.0125 |
| 531 | 30 | HDR biased | 22.194 | 22.377 | 0.183 |
| 532 | 30 | HDR biased | 22.105 | 21.927 | -0.1788 |
| 533 | 30 | HDR biased | 22.364 | 22.321 | -0.043 |
| 534 | 30 | HDR biased | 22.136 | 22.22 | 0.0844 |
| 535 | 30 | HDR biased | 22.439 | 22.443 | 0.004 |
| 551 | 50 | HDR biased | 22.441 | 22.377 | -0.0642 |
| 552 | 50 | HDR biased | 22.307 | 22.43 | 0.1233 |
| 553 | 50 | HDR biased | 22.268 | 22.327 | 0.059 |
| 554 | 50 | HDR biased | 21.933 | 22.181 | 0.2485 |
| 555 | 50 | HDR biased | 22.011 | 22.267 | 0.2567 |

TID vs Post - Pre Exposure Delta

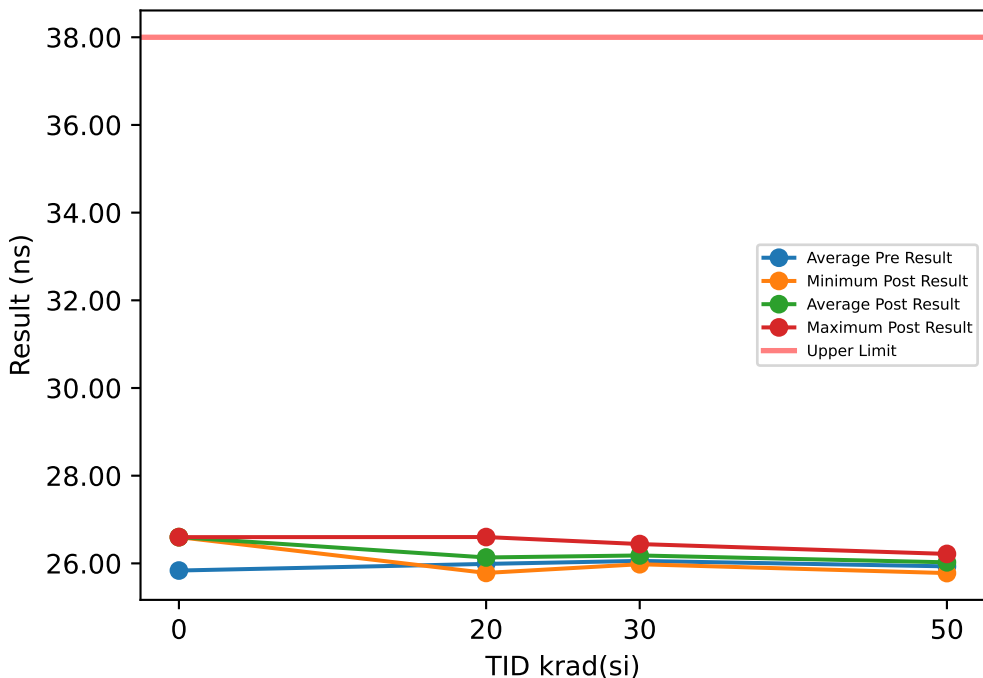


Test Statistics (ns)

| 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 | 22.2 | 22.2 | 22.2 | | 22.566 | 22.566 | 22.566 | | 0.3666 | 0.3666 | 0.3666 | |
| 20 | 21.865 | 22.156 | 22.483 | 0.19168 | 22.117 | 22.287 | 22.567 | 0.16199 | -0.0421 | 0.13136 | 0.3366 | 0.14325 |
| 30 | 21.986 | 22.181 | 22.439 | 0.13408 | 21.927 | 22.278 | 22.443 | 0.14743 | -0.1788 | 0.09631 | 0.3058 | 0.15339 |
| 50 | 21.791 | 22.079 | 22.441 | 0.20545 | 22.049 | 22.198 | 22.43 | 0.14317 | -0.0941 | 0.11928 | 0.2589 | 0.13034 |

Device Test: 110.7 SW_T_LPHL_IIM(Prop Delay LO Off IIM Interlock Disable VIN_10V)

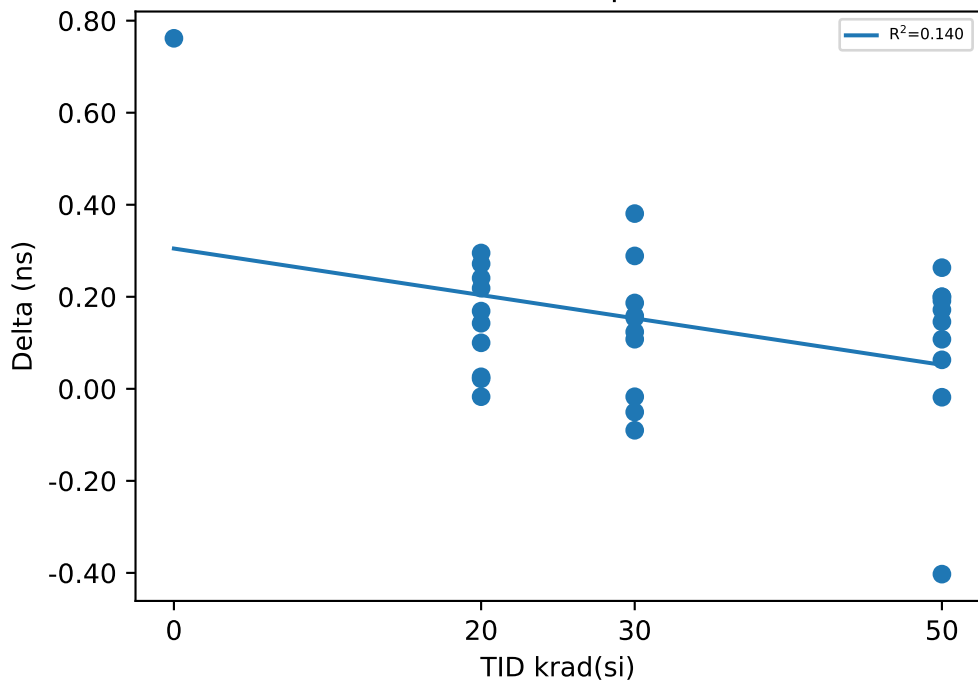
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 25.837 | 26.599 | 0.7617 |
| 321 | 20 | HDR unbiased | 25.99 | 26.133 | 0.1425 |
| 322 | 20 | HDR unbiased | 25.846 | 26.087 | 0.2407 |
| 323 | 20 | HDR unbiased | 26.305 | 26.601 | 0.2952 |
| 324 | 20 | HDR unbiased | 26.02 | 26.041 | 0.0219 |
| 325 | 20 | HDR unbiased | 25.862 | 26.081 | 0.2187 |
| 331 | 30 | HDR unbiased | 25.963 | 26.252 | 0.2888 |
| 332 | 30 | HDR unbiased | 26.085 | 26.272 | 0.1866 |
| 333 | 30 | HDR unbiased | 25.922 | 26.08 | 0.1584 |
| 334 | 30 | HDR unbiased | 26.052 | 26.206 | 0.1542 |
| 335 | 30 | HDR unbiased | 26.223 | 26.206 | -0.0172 |
| 351 | 50 | HDR unbiased | 25.912 | 26.176 | 0.2633 |
| 352 | 50 | HDR unbiased | 25.839 | 26.039 | 0.1999 |
| 353 | 50 | HDR unbiased | 26.181 | 25.779 | -0.4027 |
| 354 | 50 | HDR unbiased | 25.715 | 25.915 | 0.2 |
| 355 | 50 | HDR unbiased | 25.834 | 25.897 | 0.063 |
| 521 | 20 | HDR biased | 26.037 | 26.137 | 0.1 |
| 522 | 20 | HDR biased | 26.297 | 26.323 | 0.0261 |
| 523 | 20 | HDR biased | 26.171 | 26.34 | 0.1689 |
| 524 | 20 | HDR biased | 25.554 | 25.826 | 0.2717 |
| 525 | 20 | HDR biased | 25.799 | 25.782 | -0.0171 |
| 531 | 30 | HDR biased | 26.218 | 26.168 | -0.0505 |
| 532 | 30 | HDR biased | 25.873 | 25.98 | 0.1078 |
| 533 | 30 | HDR biased | 26.162 | 26.072 | -0.0901 |
| 534 | 30 | HDR biased | 26.008 | 26.132 | 0.1237 |
| 535 | 30 | HDR biased | 26.06 | 26.441 | 0.3808 |
| 551 | 50 | HDR biased | 26.031 | 26.013 | -0.0183 |
| 552 | 50 | HDR biased | 26.108 | 26.216 | 0.1077 |
| 553 | 50 | HDR biased | 25.912 | 26.058 | 0.1458 |
| 554 | 50 | HDR biased | 25.847 | 26.018 | 0.1717 |
| 555 | 50 | HDR biased | 25.94 | 26.131 | 0.1914 |

TID vs Post - Pre Exposure Delta

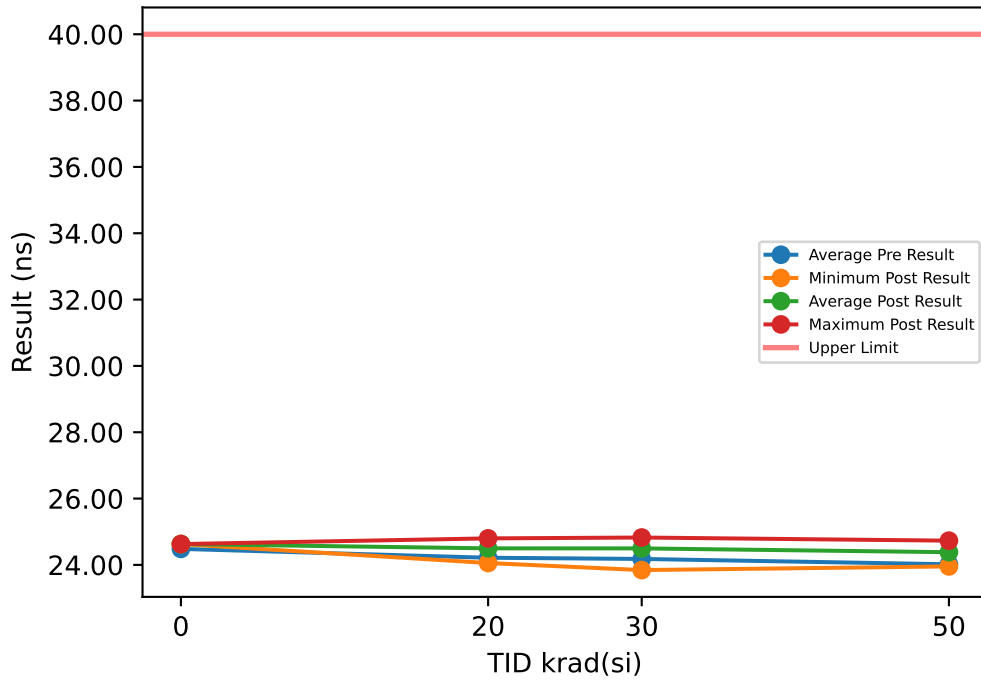


Test Statistics (ns)

| 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 | 25.837 | 25.837 | 25.837 | | 26.599 | 26.599 | 26.599 | | 0.7617 | 0.7617 | 0.7617 | |
| 20 | 25.554 | 25.988 | 26.305 | 0.23402 | 25.782 | 26.135 | 26.601 | 0.24222 | -0.0171 | 0.14686 | 0.2952 | 0.11122 |
| 30 | 25.873 | 26.057 | 26.223 | 0.11977 | 25.98 | 26.181 | 26.441 | 0.12786 | -0.0901 | 0.12425 | 0.3808 | 0.14743 |
| 50 | 25.715 | 25.932 | 26.181 | 0.13999 | 25.779 | 26.024 | 26.216 | 0.13377 | -0.4027 | 0.09218 | 0.2633 | 0.19142 |

Device Test: 110.8 SW_T_HPLH_IIM(Prop Delay HO On IIM Interlock Disable VIN_10V)

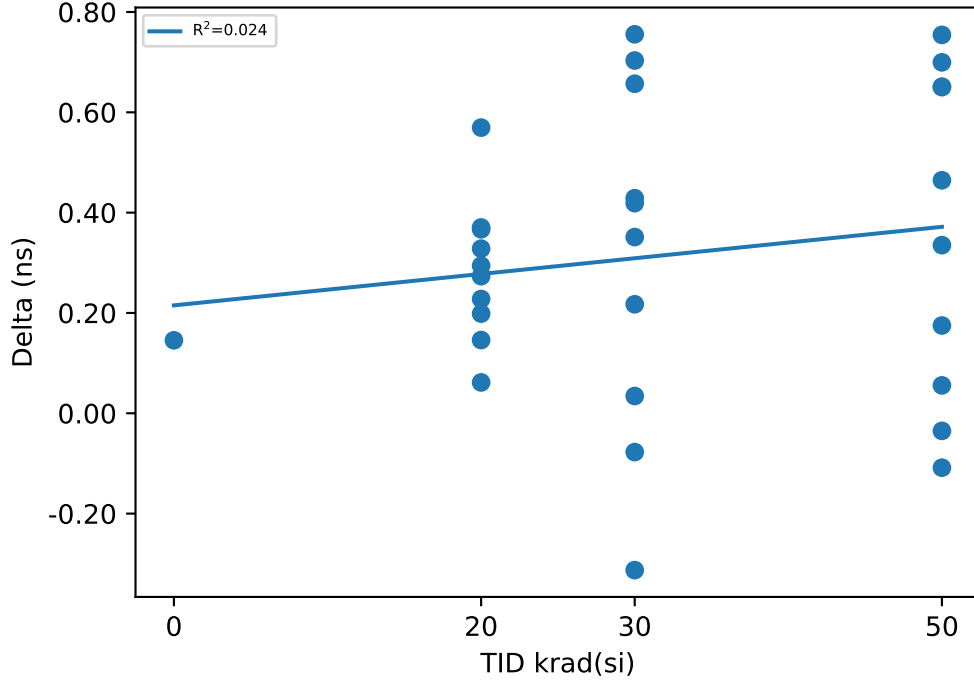
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 24.482 | 24.628 | 0.1455 |
| 321 | 20 | HDR unbiased | 24.42 | 24.618 | 0.1987 |
| 322 | 20 | HDR unbiased | 24.063 | 24.125 | 0.0615 |
| 323 | 20 | HDR unbiased | 23.762 | 24.057 | 0.2942 |
| 324 | 20 | HDR unbiased | 24.192 | 24.562 | 0.3704 |
| 325 | 20 | HDR unbiased | 24.11 | 24.68 | 0.5695 |
| 331 | 30 | HDR unbiased | 24.122 | 24.825 | 0.7033 |
| 332 | 30 | HDR unbiased | 23.647 | 24.304 | 0.657 |
| 333 | 30 | HDR unbiased | 24.358 | 24.575 | 0.2173 |
| 334 | 30 | HDR unbiased | 24.248 | 24.676 | 0.4288 |
| 335 | 30 | HDR unbiased | 24.116 | 24.467 | 0.3513 |
| 351 | 50 | HDR unbiased | 24.118 | 24.453 | 0.3352 |
| 352 | 50 | HDR unbiased | 24.048 | 24.104 | 0.0556 |
| 353 | 50 | HDR unbiased | 24.08 | 24.731 | 0.6511 |
| 354 | 50 | HDR unbiased | 23.772 | 24.471 | 0.6996 |
| 355 | 50 | HDR unbiased | 24.062 | 23.954 | -0.1085 |
| 521 | 20 | HDR biased | 24.177 | 24.323 | 0.146 |
| 522 | 20 | HDR biased | 24.298 | 24.627 | 0.3282 |
| 523 | 20 | HDR biased | 24.285 | 24.558 | 0.2733 |
| 524 | 20 | HDR biased | 24.433 | 24.799 | 0.3668 |
| 525 | 20 | HDR biased | 24.413 | 24.64 | 0.2278 |
| 531 | 30 | HDR biased | 24.001 | 24.757 | 0.7555 |
| 532 | 30 | HDR biased | 24.156 | 23.843 | -0.3127 |
| 533 | 30 | HDR biased | 24.378 | 24.797 | 0.4189 |
| 534 | 30 | HDR biased | 24.32 | 24.355 | 0.0344 |
| 535 | 30 | HDR biased | 24.451 | 24.373 | -0.0774 |
| 551 | 50 | HDR biased | 24.038 | 24.502 | 0.4646 |
| 552 | 50 | HDR biased | 23.733 | 24.383 | 0.6502 |
| 553 | 50 | HDR biased | 24.314 | 24.279 | -0.0351 |
| 554 | 50 | HDR biased | 23.913 | 24.667 | 0.7543 |
| 555 | 50 | HDR biased | 24.109 | 24.284 | 0.175 |

TID vs Post - Pre Exposure Delta

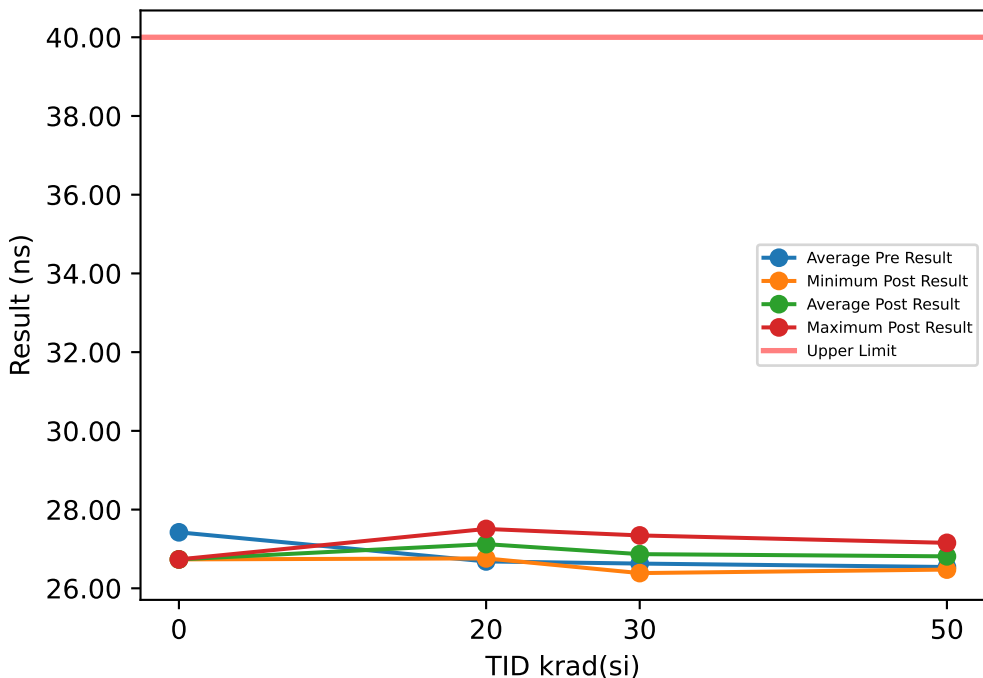


Test Statistics (ns)

| 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 | 24.482 | 24.482 | 24.482 | | 24.628 | 24.628 | 24.628 | | 0.1455 | 0.1455 | 0.1455 | |
| 20 | 23.762 | 24.215 | 24.433 | 0.20568 | 24.057 | 24.499 | 24.799 | 0.24661 | 0.0615 | 0.28364 | 0.5695 | 0.14023 |
| 30 | 23.647 | 24.18 | 24.451 | 0.23396 | 23.843 | 24.497 | 24.825 | 0.29895 | -0.3127 | 0.31764 | 0.7555 | 0.35325 |
| 50 | 23.733 | 24.019 | 24.314 | 0.17201 | 23.954 | 24.383 | 24.731 | 0.23836 | -0.1085 | 0.3642 | 0.7543 | 0.32551 |

Device Test: 110.9 SW_T_HPHL_IIM(_Prop Delay HO Off IIM Interlock Disable VIN_10V)

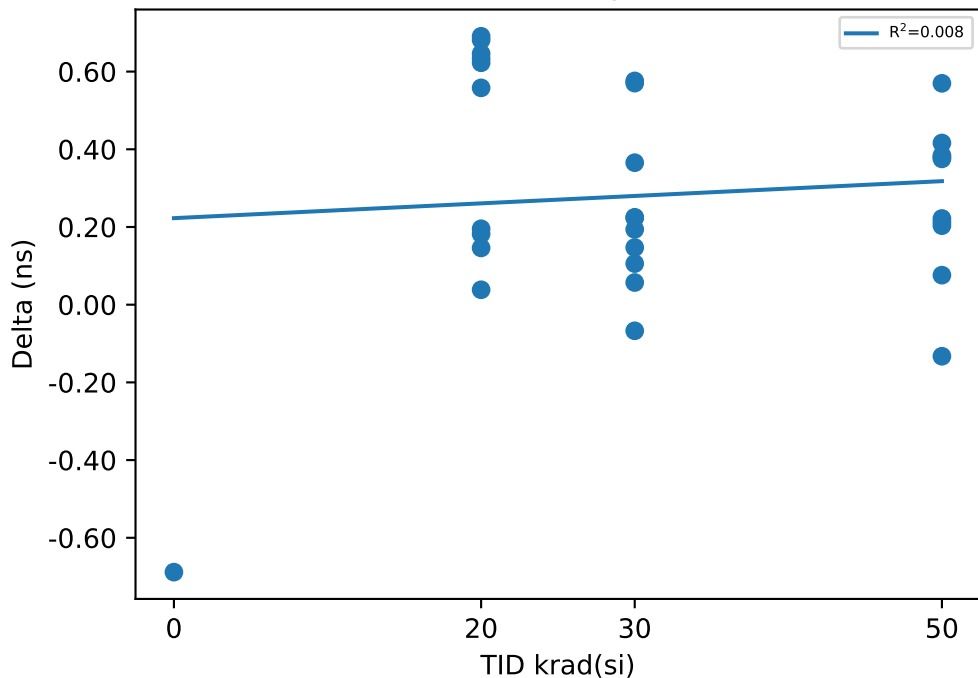
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 27.423 | 26.734 | -0.6884 |
| 321 | 20 | HDR unbiased | 26.666 | 27.357 | 0.6908 |
| 322 | 20 | HDR unbiased | 26.444 | 27.126 | 0.6814 |
| 323 | 20 | HDR unbiased | 26.283 | 26.906 | 0.6227 |
| 324 | 20 | HDR unbiased | 26.653 | 26.849 | 0.1954 |
| 325 | 20 | HDR unbiased | 26.915 | 26.953 | 0.0384 |
| 331 | 30 | HDR unbiased | 26.699 | 26.923 | 0.2235 |
| 332 | 30 | HDR unbiased | 26.281 | 26.387 | 0.1058 |
| 333 | 30 | HDR unbiased | 26.975 | 27.341 | 0.3655 |
| 334 | 30 | HDR unbiased | 26.456 | 26.603 | 0.1472 |
| 335 | 30 | HDR unbiased | 26.721 | 26.778 | 0.0571 |
| 351 | 50 | HDR unbiased | 26.762 | 26.629 | -0.1327 |
| 352 | 50 | HDR unbiased | 26.366 | 26.936 | 0.5698 |
| 353 | 50 | HDR unbiased | 26.438 | 26.822 | 0.3842 |
| 354 | 50 | HDR unbiased | 26.296 | 26.672 | 0.3753 |
| 355 | 50 | HDR unbiased | 26.509 | 26.712 | 0.2034 |
| 521 | 20 | HDR biased | 26.777 | 27.424 | 0.6462 |
| 522 | 20 | HDR biased | 26.578 | 26.76 | 0.182 |
| 523 | 20 | HDR biased | 26.79 | 27.348 | 0.5581 |
| 524 | 20 | HDR biased | 26.847 | 26.993 | 0.1461 |
| 525 | 20 | HDR biased | 26.875 | 27.509 | 0.6336 |
| 531 | 30 | HDR biased | 26.678 | 26.903 | 0.2249 |
| 532 | 30 | HDR biased | 26.496 | 26.429 | -0.0672 |
| 533 | 30 | HDR biased | 26.593 | 26.787 | 0.1938 |
| 534 | 30 | HDR biased | 26.616 | 27.187 | 0.5703 |
| 535 | 30 | HDR biased | 26.768 | 27.344 | 0.576 |
| 551 | 50 | HDR biased | 26.5 | 26.713 | 0.2125 |
| 552 | 50 | HDR biased | 26.4 | 26.476 | 0.076 |
| 553 | 50 | HDR biased | 26.629 | 27.045 | 0.4162 |
| 554 | 50 | HDR biased | 26.741 | 26.963 | 0.2219 |
| 555 | 50 | HDR biased | 26.775 | 27.155 | 0.3795 |

TID vs Post - Pre Exposure Delta

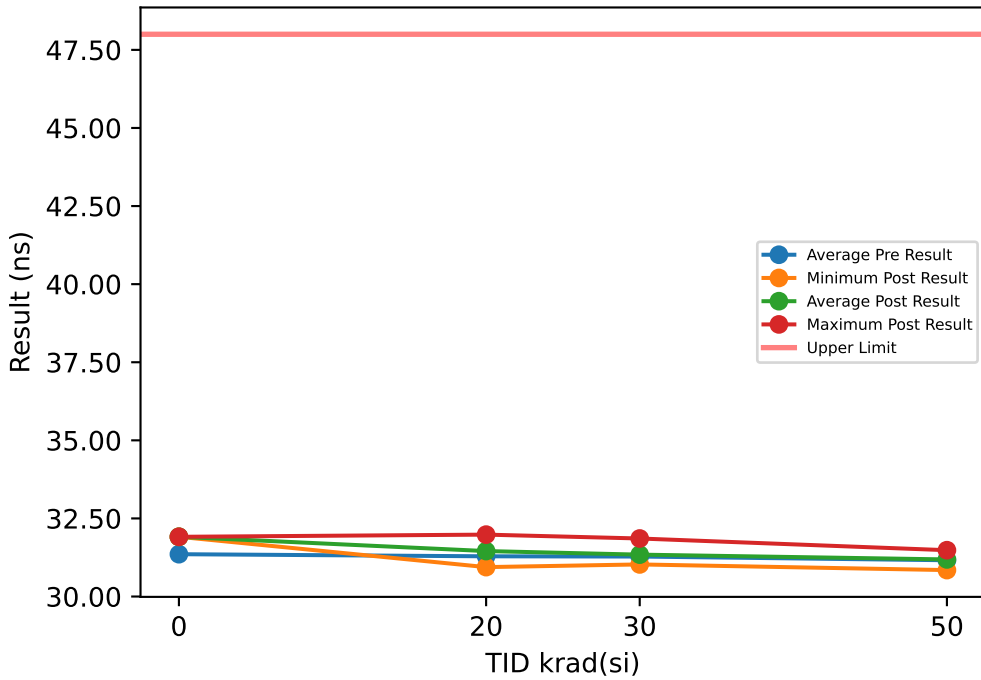


Test Statistics (ns)

| 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 | 27.423 | 27.423 | 27.423 | | 26.734 | 26.734 | 26.734 | | -0.6884 | -0.6884 | -0.6884 | |
| 20 | 26.283 | 26.683 | 26.915 | 0.20198 | 26.76 | 27.122 | 27.509 | 0.26761 | 0.0384 | 0.43947 | 0.6908 | 0.26301 |
| 30 | 26.281 | 26.628 | 26.975 | 0.19014 | 26.387 | 26.868 | 27.344 | 0.34401 | -0.0672 | 0.23969 | 0.576 | 0.20945 |
| 50 | 26.296 | 26.542 | 26.775 | 0.17483 | 26.476 | 26.812 | 27.155 | 0.20978 | -0.1327 | 0.27061 | 0.5698 | 0.19923 |

Device Test: 111.0 SW_T_LPHL_PWM(_Prop Delay LO Off PWM VIN_12V)

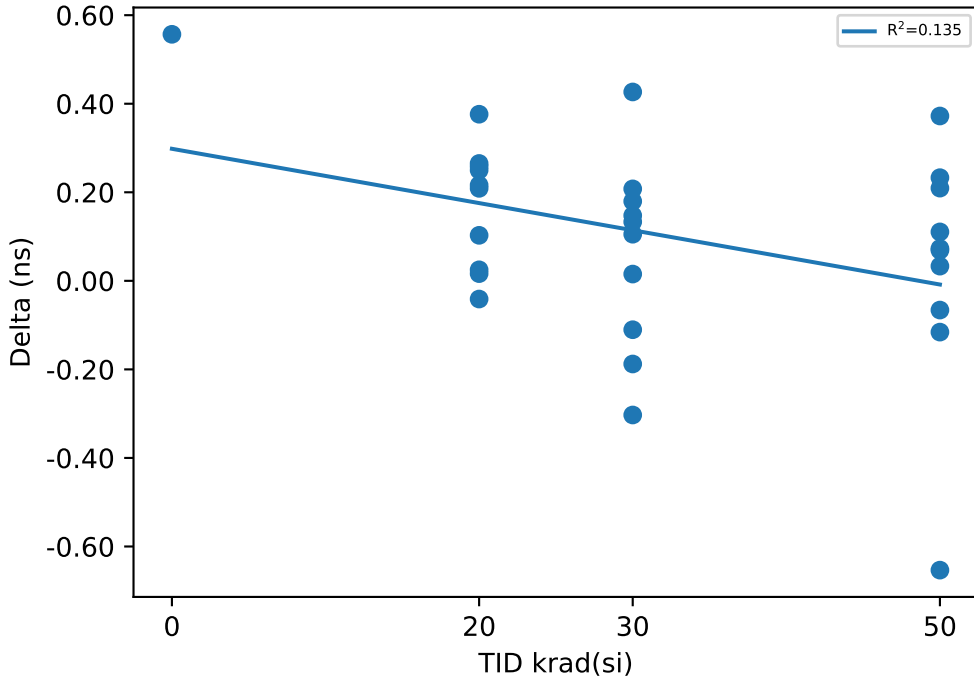
TID vs Result Stats



Test Results (Upper Limit = 48.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 31.355 | 31.912 | 0.5568 |
| 321 | 20 | HDR unbiased | 31.268 | 31.477 | 0.2089 |
| 322 | 20 | HDR unbiased | 31.219 | 31.595 | 0.3763 |
| 323 | 20 | HDR unbiased | 31.723 | 31.982 | 0.2583 |
| 324 | 20 | HDR unbiased | 31.393 | 31.352 | -0.0411 |
| 325 | 20 | HDR unbiased | 31.259 | 31.361 | 0.1028 |
| 331 | 30 | HDR unbiased | 31.114 | 31.294 | 0.1797 |
| 332 | 30 | HDR unbiased | 31.457 | 31.591 | 0.1333 |
| 333 | 30 | HDR unbiased | 30.885 | 31.032 | 0.1475 |
| 334 | 30 | HDR unbiased | 31.155 | 31.26 | 0.1053 |
| 335 | 30 | HDR unbiased | 31.296 | 31.312 | 0.0153 |
| 351 | 50 | HDR unbiased | 31.007 | 31.38 | 0.3723 |
| 352 | 50 | HDR unbiased | 31.12 | 31.189 | 0.0691 |
| 353 | 50 | HDR unbiased | 31.5 | 30.846 | -0.6534 |
| 354 | 50 | HDR unbiased | 30.863 | 31.096 | 0.233 |
| 355 | 50 | HDR unbiased | 31.055 | 31.089 | 0.0332 |
| 521 | 20 | HDR biased | 31.23 | 31.446 | 0.2162 |
| 522 | 20 | HDR biased | 31.486 | 31.503 | 0.0163 |
| 523 | 20 | HDR biased | 31.379 | 31.629 | 0.25 |
| 524 | 20 | HDR biased | 30.916 | 30.941 | 0.0249 |
| 525 | 20 | HDR biased | 31.001 | 31.266 | 0.2651 |
| 531 | 30 | HDR biased | 31.462 | 31.274 | -0.1878 |
| 532 | 30 | HDR biased | 31.138 | 31.027 | -0.1104 |
| 533 | 30 | HDR biased | 31.484 | 31.181 | -0.303 |
| 534 | 30 | HDR biased | 31.375 | 31.583 | 0.2077 |
| 535 | 30 | HDR biased | 31.431 | 31.858 | 0.4266 |
| 551 | 50 | HDR biased | 31.181 | 31.066 | -0.1158 |
| 552 | 50 | HDR biased | 31.502 | 31.436 | -0.066 |
| 553 | 50 | HDR biased | 31.062 | 31.173 | 0.1105 |
| 554 | 50 | HDR biased | 31.046 | 31.119 | 0.073 |
| 555 | 50 | HDR biased | 31.274 | 31.483 | 0.2094 |

TID vs Post - Pre Exposure Delta

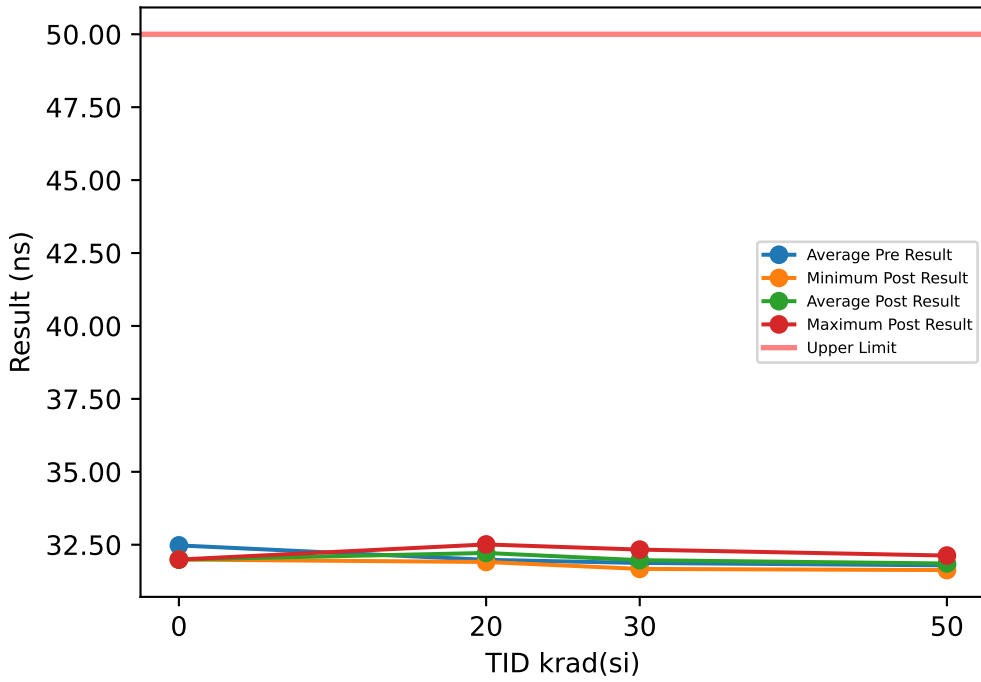


Test Statistics (ns)

| 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 | 31.355 | 31.355 | 31.355 | | 31.912 | 31.912 | 31.912 | | 0.5568 | 0.5568 | 0.5568 | |
| 20 | 30.916 | 31.287 | 31.723 | 0.23036 | 30.941 | 31.455 | 31.982 | 0.26847 | -0.0411 | 0.16777 | 0.3763 | 0.13464 |
| 30 | 30.885 | 31.28 | 31.484 | 0.19939 | 31.027 | 31.341 | 31.858 | 0.26272 | -0.303 | 0.06142 | 0.4266 | 0.21339 |
| 50 | 30.863 | 31.161 | 31.502 | 0.20862 | 30.846 | 31.188 | 31.483 | 0.19435 | -0.6534 | 0.02653 | 0.3723 | 0.27845 |

Device Test: 111.1 SW_T_HPHL_PWM(_Prop Delay HO Off PWM VIN_12V)

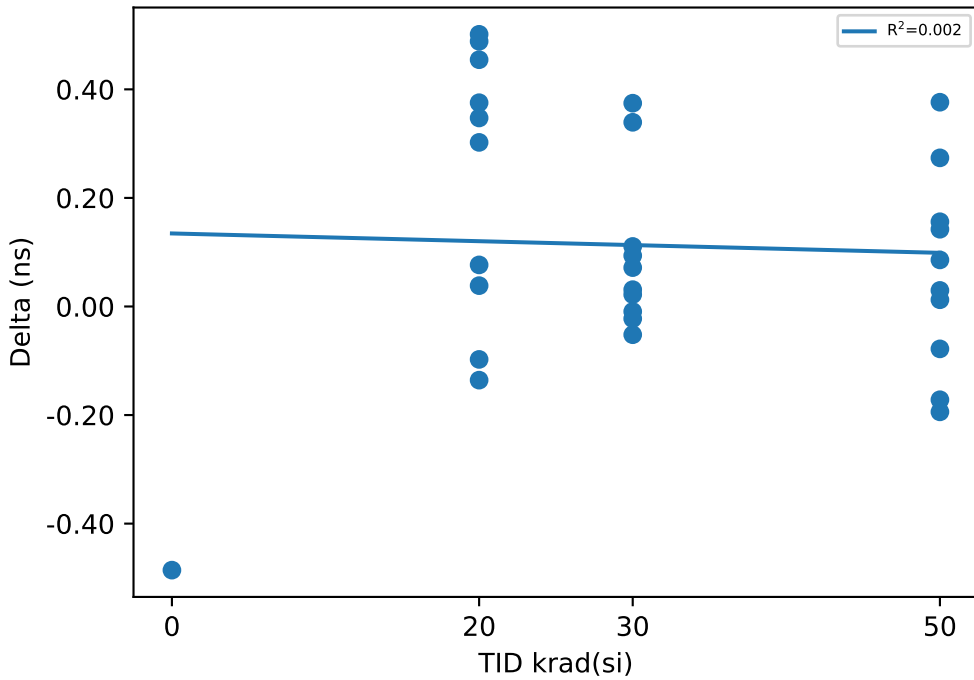
TID vs Result Stats



Test Results (Upper Limit = 50.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 32.477 | 31.992 | -0.4857 |
| 321 | 20 | HDR unbiased | 31.781 | 32.282 | 0.5014 |
| 322 | 20 | HDR unbiased | 31.8 | 32.289 | 0.4885 |
| 323 | 20 | HDR unbiased | 31.676 | 32.052 | 0.3754 |
| 324 | 20 | HDR unbiased | 32.065 | 32.142 | 0.0766 |
| 325 | 20 | HDR unbiased | 32.388 | 32.29 | -0.0975 |
| 331 | 30 | HDR unbiased | 31.929 | 32.001 | 0.0716 |
| 332 | 30 | HDR unbiased | 31.68 | 31.671 | -0.0093 |
| 333 | 30 | HDR unbiased | 32.072 | 32.103 | 0.031 |
| 334 | 30 | HDR unbiased | 31.609 | 31.719 | 0.1106 |
| 335 | 30 | HDR unbiased | 31.994 | 32.016 | 0.022 |
| 351 | 50 | HDR unbiased | 32.043 | 31.849 | -0.1941 |
| 352 | 50 | HDR unbiased | 31.517 | 31.893 | 0.3763 |
| 353 | 50 | HDR unbiased | 31.786 | 31.872 | 0.0858 |
| 354 | 50 | HDR unbiased | 31.549 | 31.823 | 0.2738 |
| 355 | 50 | HDR unbiased | 31.746 | 31.668 | -0.0781 |
| 521 | 20 | HDR biased | 31.98 | 32.328 | 0.3473 |
| 522 | 20 | HDR biased | 31.87 | 31.909 | 0.0384 |
| 523 | 20 | HDR biased | 31.955 | 32.258 | 0.3023 |
| 524 | 20 | HDR biased | 32.257 | 32.121 | -0.1357 |
| 525 | 20 | HDR biased | 32.055 | 32.51 | 0.4546 |
| 531 | 30 | HDR biased | 31.999 | 31.977 | -0.0224 |
| 532 | 30 | HDR biased | 31.84 | 31.788 | -0.052 |
| 533 | 30 | HDR biased | 31.81 | 31.904 | 0.0937 |
| 534 | 30 | HDR biased | 31.854 | 32.193 | 0.3393 |
| 535 | 30 | HDR biased | 31.959 | 32.333 | 0.3745 |
| 551 | 50 | HDR biased | 31.652 | 31.794 | 0.1423 |
| 552 | 50 | HDR biased | 31.802 | 31.631 | -0.1718 |
| 553 | 50 | HDR biased | 31.75 | 31.906 | 0.1561 |
| 554 | 50 | HDR biased | 31.989 | 32.001 | 0.0124 |
| 555 | 50 | HDR biased | 32.099 | 32.129 | 0.0296 |

TID vs Post - Pre Exposure Delta

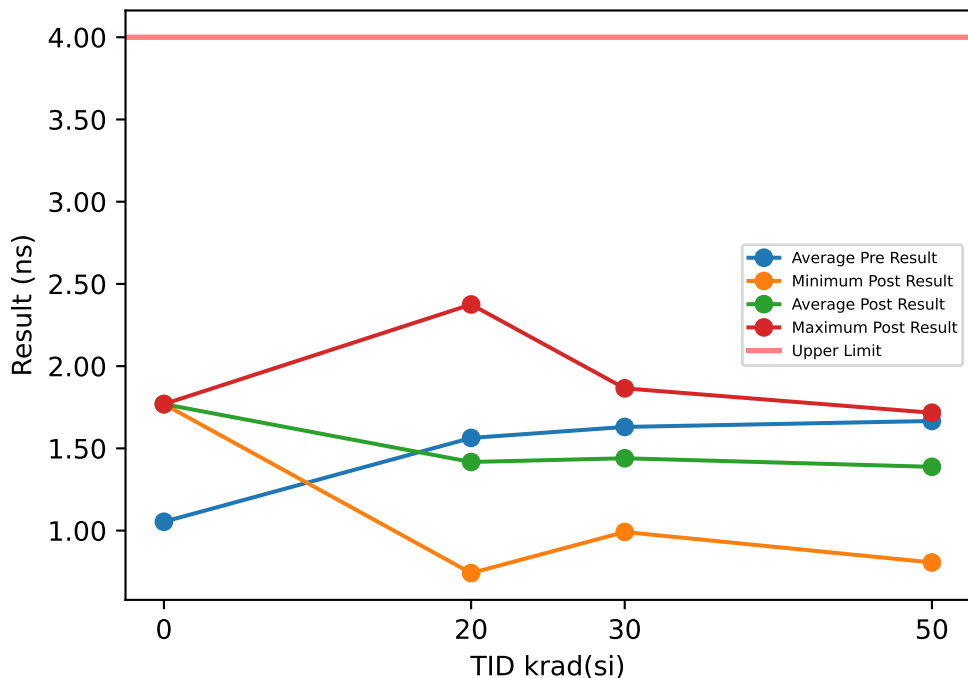


Test Statistics (ns)

| 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 | 32.477 | 32.477 | 32.477 | | 31.992 | 31.992 | 31.992 | | -0.4857 | -0.4857 | -0.4857 | |
| 20 | 31.676 | 31.983 | 32.388 | 0.21915 | 31.909 | 32.218 | 32.51 | 0.16721 | -0.1357 | 0.23513 | 0.5014 | 0.24313 |
| 30 | 31.609 | 31.875 | 32.072 | 0.14652 | 31.671 | 31.971 | 32.333 | 0.20876 | -0.052 | 0.0959 | 0.3745 | 0.14692 |
| 50 | 31.517 | 31.793 | 32.099 | 0.19849 | 31.631 | 31.856 | 32.129 | 0.14562 | -0.1941 | 0.06323 | 0.3763 | 0.18345 |

Device Test: 111.11 SW_T_MATCH_OFF(_Delay Match LO Off HO On IIM Interlock VIN_12V)

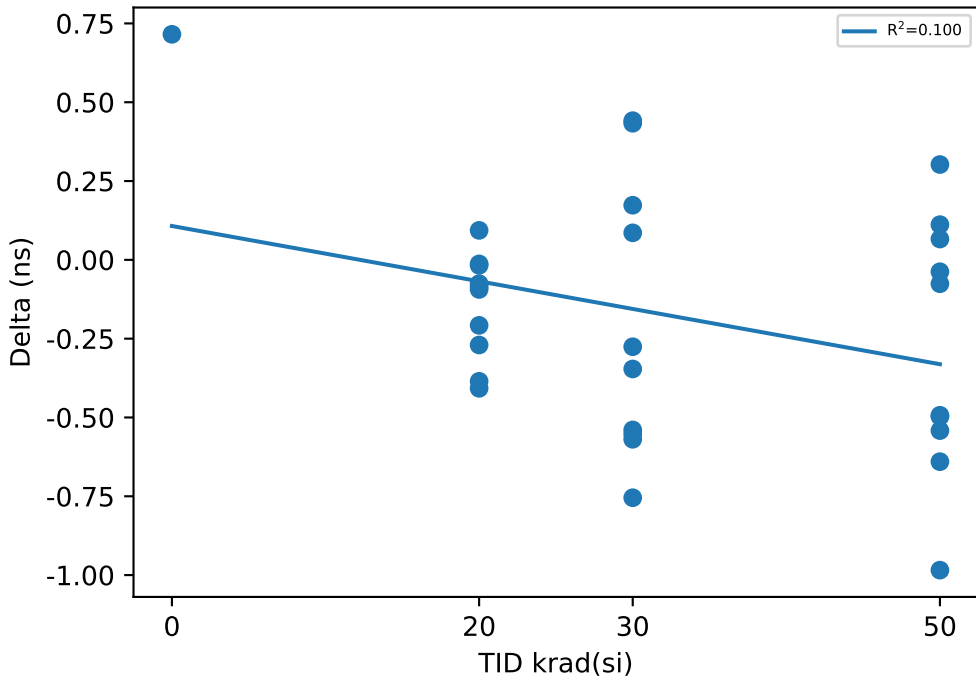
TID vs Result Stats



Test Results (Upper Limit = 4.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.0536 | 1.7691 | 0.7155 |
| 321 | 20 | HDR unbiased | 1.4692 | 1.384 | -0.0852 |
| 322 | 20 | HDR unbiased | 1.5703 | 1.553 | -0.0173 |
| 323 | 20 | HDR unbiased | 2.4506 | 2.3751 | -0.0755 |
| 324 | 20 | HDR unbiased | 1.4887 | 1.2809 | -0.2078 |
| 325 | 20 | HDR unbiased | 1.534 | 1.1487 | -0.3853 |
| 331 | 30 | HDR unbiased | 1.7202 | 1.151 | -0.5692 |
| 332 | 30 | HDR unbiased | 2.3186 | 1.7655 | -0.5531 |
| 333 | 30 | HDR unbiased | 1.2195 | 1.3052 | 0.0857 |
| 334 | 30 | HDR unbiased | 1.5517 | 1.2761 | -0.2756 |
| 335 | 30 | HDR unbiased | 1.8223 | 1.4762 | -0.3461 |
| 351 | 50 | HDR unbiased | 1.4368 | 1.3991 | -0.0377 |
| 352 | 50 | HDR unbiased | 1.5979 | 1.6639 | 0.066 |
| 353 | 50 | HDR unbiased | 1.7904 | 0.8061 | -0.9843 |
| 354 | 50 | HDR unbiased | 1.7119 | 1.2189 | -0.493 |
| 355 | 50 | HDR unbiased | 1.4141 | 1.7165 | 0.3024 |
| 521 | 20 | HDR biased | 1.4826 | 1.5761 | 0.0935 |
| 522 | 20 | HDR biased | 1.8652 | 1.4577 | -0.4075 |
| 523 | 20 | HDR biased | 1.5967 | 1.5839 | -0.0128 |
| 524 | 20 | HDR biased | 1.0117 | 0.7416 | -0.2701 |
| 525 | 20 | HDR biased | 1.1653 | 1.0714 | -0.0939 |
| 531 | 30 | HDR biased | 1.888 | 1.1334 | -0.7546 |
| 532 | 30 | HDR biased | 1.4235 | 1.8651 | 0.4416 |
| 533 | 30 | HDR biased | 1.5312 | 0.9916 | -0.5396 |
| 534 | 30 | HDR biased | 1.4456 | 1.6189 | 0.1733 |
| 535 | 30 | HDR biased | 1.3822 | 1.8156 | 0.4334 |
| 551 | 50 | HDR biased | 1.7936 | 1.252 | -0.5416 |
| 552 | 50 | HDR biased | 2.209 | 1.5688 | -0.6402 |
| 553 | 50 | HDR biased | 1.4842 | 1.5959 | 0.1117 |
| 554 | 50 | HDR biased | 1.5794 | 1.0826 | -0.4968 |
| 555 | 50 | HDR biased | 1.6491 | 1.5733 | -0.0758 |

TID vs Post - Pre Exposure Delta

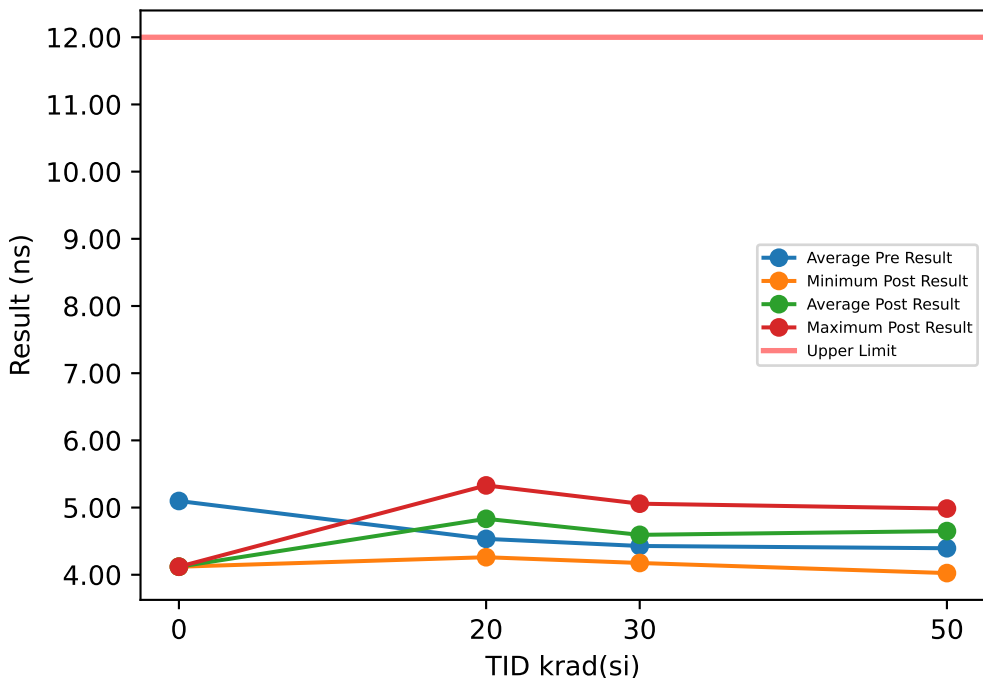


Test Statistics (ns)

| 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 | 1.0536 | 1.0536 | 1.0536 | | 1.7691 | 1.7691 | 1.7691 | | 0.7155 | 0.7155 | 0.7155 | |
| 20 | 1.0117 | 1.5634 | 2.4506 | 0.38931 | 0.7416 | 1.4172 | 2.3751 | 0.42927 | -0.4075 | -0.14619 | 0.0935 | 0.16597 |
| 30 | 1.2195 | 1.6303 | 2.3186 | 0.31768 | 0.9916 | 1.4399 | 1.8651 | 0.31352 | -0.7546 | -0.19042 | 0.4416 | 0.44018 |
| 50 | 1.4141 | 1.6666 | 2.209 | 0.23337 | 0.8061 | 1.3877 | 1.7165 | 0.29314 | -0.9843 | -0.27893 | 0.3024 | 0.40816 |

Device Test: 111.12 SW_T_MATCH_ON(_Delay Match LO On HO Off IIM Interlock Disable VIN_12V)

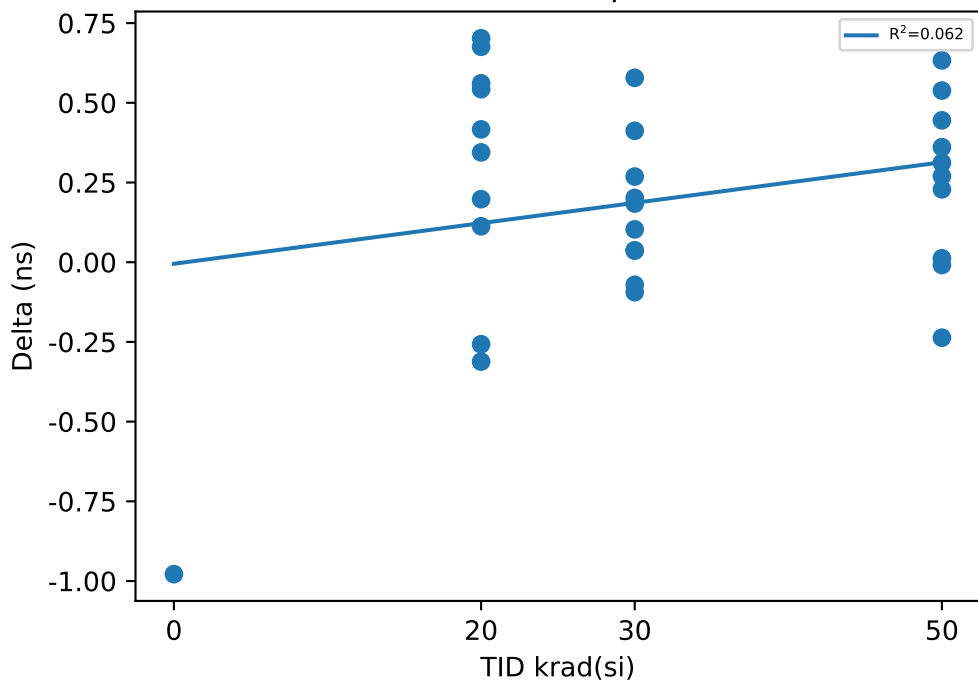
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0979 | 4.1195 | -0.9784 |
| 321 | 20 | HDR unbiased | 4.4335 | 5.1358 | 0.7023 |
| 322 | 20 | HDR unbiased | 4.3387 | 4.8997 | 0.561 |
| 323 | 20 | HDR unbiased | 4.0925 | 4.437 | 0.3445 |
| 324 | 20 | HDR unbiased | 4.5602 | 4.6729 | 0.1127 |
| 325 | 20 | HDR unbiased | 5.011 | 4.7537 | -0.2573 |
| 331 | 30 | HDR unbiased | 4.6273 | 4.5332 | -0.0941 |
| 332 | 30 | HDR unbiased | 4.246 | 4.1751 | -0.0709 |
| 333 | 30 | HDR unbiased | 4.7231 | 4.907 | 0.1839 |
| 334 | 30 | HDR unbiased | 4.1581 | 4.3597 | 0.2016 |
| 335 | 30 | HDR unbiased | 4.4848 | 4.5878 | 0.103 |
| 351 | 50 | HDR unbiased | 4.7685 | 4.5317 | -0.2368 |
| 352 | 50 | HDR unbiased | 4.3429 | 4.976 | 0.6331 |
| 353 | 50 | HDR unbiased | 4.4082 | 4.769 | 0.3608 |
| 354 | 50 | HDR unbiased | 4.3834 | 4.612 | 0.2286 |
| 355 | 50 | HDR unbiased | 4.3955 | 4.6656 | 0.2701 |
| 521 | 20 | HDR biased | 4.548 | 5.0907 | 0.5427 |
| 522 | 20 | HDR biased | 4.0632 | 4.2609 | 0.1977 |
| 523 | 20 | HDR biased | 4.4595 | 4.8761 | 0.4166 |
| 524 | 20 | HDR biased | 5.1814 | 4.8696 | -0.3118 |
| 525 | 20 | HDR biased | 4.654 | 5.3297 | 0.6757 |
| 531 | 30 | HDR biased | 4.4704 | 4.5074 | 0.037 |
| 532 | 30 | HDR biased | 4.4536 | 4.4903 | 0.0367 |
| 533 | 30 | HDR biased | 4.1812 | 4.4499 | 0.2687 |
| 534 | 30 | HDR biased | 4.4593 | 4.8715 | 0.4122 |
| 535 | 30 | HDR biased | 4.4793 | 5.0577 | 0.5784 |
| 551 | 50 | HDR biased | 3.8394 | 4.2844 | 0.445 |
| 552 | 50 | HDR biased | 4.0125 | 4.0248 | 0.0123 |
| 553 | 50 | HDR biased | 4.3432 | 4.8816 | 0.5384 |
| 554 | 50 | HDR biased | 4.7789 | 4.7701 | -0.0088 |
| 555 | 50 | HDR biased | 4.6733 | 4.9852 | 0.3119 |

TID vs Post - Pre Exposure Delta

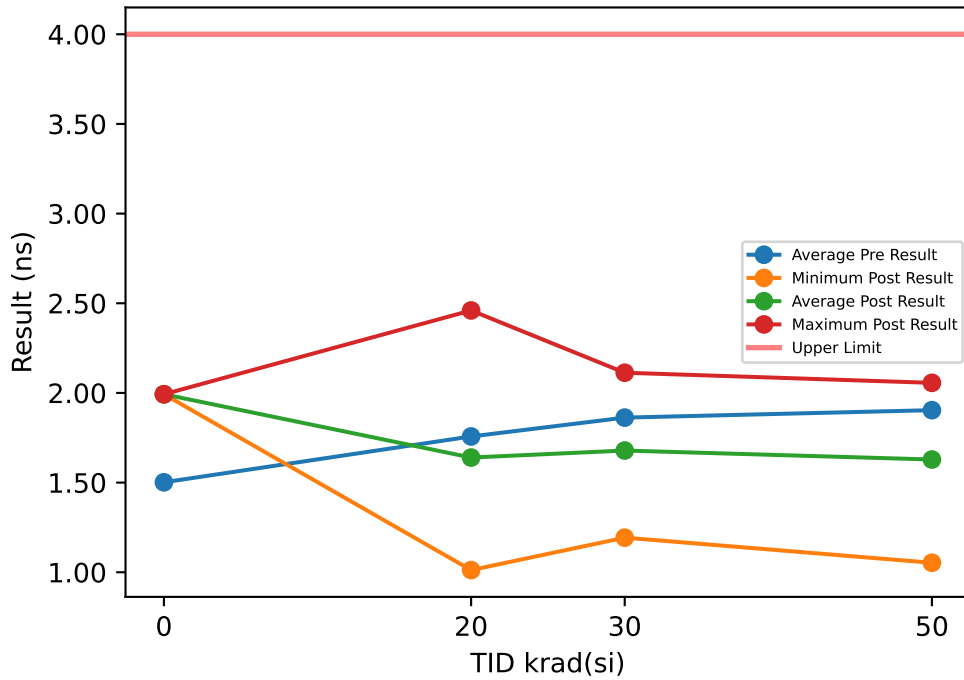


Test Statistics (ns)

| 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 | 5.0979 | 5.0979 | 5.0979 | | 4.1195 | 4.1195 | 4.1195 | | -0.9784 | -0.9784 | -0.9784 | |
| 20 | 4.0632 | 4.5342 | 5.1814 | 0.3547 | 4.2609 | 4.8326 | 5.3297 | 0.32119 | -0.3118 | 0.29841 | 0.7023 | 0.36148 |
| 30 | 4.1581 | 4.4283 | 4.7231 | 0.18348 | 4.1751 | 4.594 | 5.0577 | 0.27144 | -0.0941 | 0.16565 | 0.5784 | 0.21185 |
| 50 | 3.8394 | 4.3946 | 4.7789 | 0.30277 | 4.0248 | 4.65 | 4.9852 | 0.3057 | -0.2368 | 0.25546 | 0.6331 | 0.26773 |

Device Test: 111.13 SW_T_MATCH_OFF(_Delay Match LO Off HO On IIM Interlock Disable VIN_12V)

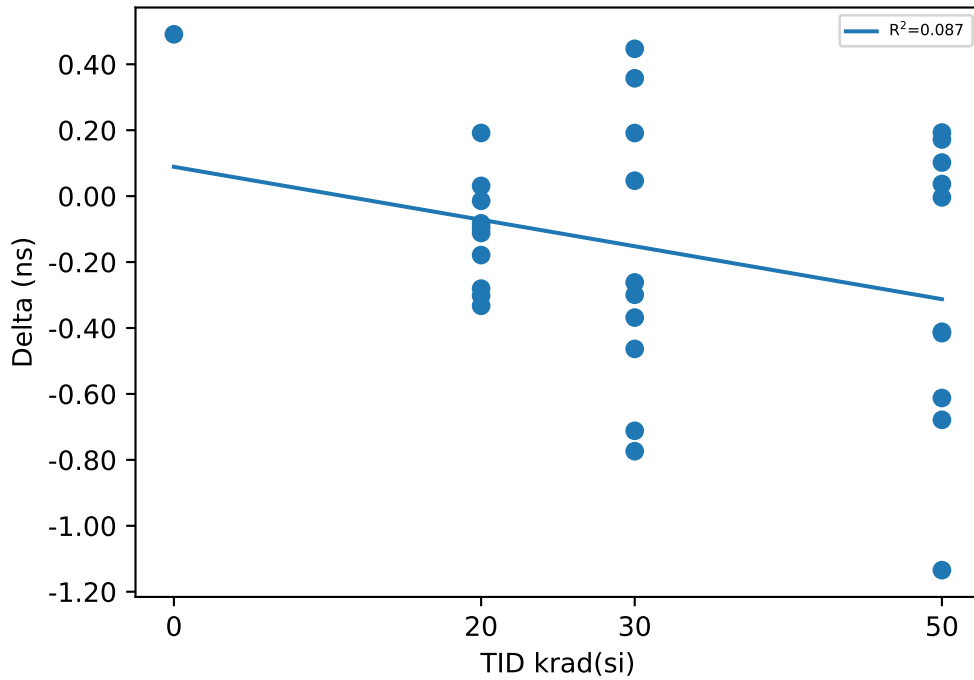
TID vs Result Stats



Test Results (Upper Limit = 4.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.5017 | 1.9926 | 0.4909 |
| 321 | 20 | HDR unbiased | 1.6737 | 1.6595 | -0.0142 |
| 322 | 20 | HDR unbiased | 1.7663 | 1.9579 | 0.1916 |
| 323 | 20 | HDR unbiased | 2.5425 | 2.4599 | -0.0826 |
| 324 | 20 | HDR unbiased | 1.7646 | 1.4621 | -0.3025 |
| 325 | 20 | HDR unbiased | 1.6902 | 1.3576 | -0.3326 |
| 331 | 30 | HDR unbiased | 1.8948 | 1.4314 | -0.4634 |
| 332 | 30 | HDR unbiased | 2.3975 | 2.0291 | -0.3684 |
| 333 | 30 | HDR unbiased | 1.4859 | 1.5328 | 0.0469 |
| 334 | 30 | HDR unbiased | 1.7853 | 1.5236 | -0.2617 |
| 335 | 30 | HDR unbiased | 2.009 | 1.7099 | -0.2991 |
| 351 | 50 | HDR unbiased | 1.5694 | 1.6713 | 0.1019 |
| 352 | 50 | HDR unbiased | 1.8843 | 2.0562 | 0.1719 |
| 353 | 50 | HDR unbiased | 2.1874 | 1.0529 | -1.1345 |
| 354 | 50 | HDR unbiased | 2.0673 | 1.455 | -0.6123 |
| 355 | 50 | HDR unbiased | 1.7158 | 1.9088 | 0.193 |
| 521 | 20 | HDR biased | 1.7808 | 1.669 | -0.1118 |
| 522 | 20 | HDR biased | 2.0208 | 1.7402 | -0.2806 |
| 523 | 20 | HDR biased | 1.8509 | 1.755 | -0.0959 |
| 524 | 20 | HDR biased | 1.1909 | 1.0121 | -0.1788 |
| 525 | 20 | HDR biased | 1.2918 | 1.3229 | 0.0311 |
| 531 | 30 | HDR biased | 2.1752 | 1.4015 | -0.7737 |
| 532 | 30 | HDR biased | 1.6658 | 2.1127 | 0.4469 |
| 533 | 30 | HDR biased | 1.9048 | 1.193 | -0.7118 |
| 534 | 30 | HDR biased | 1.5847 | 1.7761 | 0.1914 |
| 535 | 30 | HDR biased | 1.7199 | 2.0774 | 0.3575 |
| 551 | 50 | HDR biased | 1.9374 | 1.5218 | -0.4156 |
| 552 | 50 | HDR biased | 2.4654 | 1.7868 | -0.6786 |
| 553 | 50 | HDR biased | 1.6263 | 1.6632 | 0.0369 |
| 554 | 50 | HDR biased | 1.7604 | 1.349 | -0.4114 |
| 555 | 50 | HDR biased | 1.8247 | 1.8209 | -0.0038 |

TID vs Post - Pre Exposure Delta

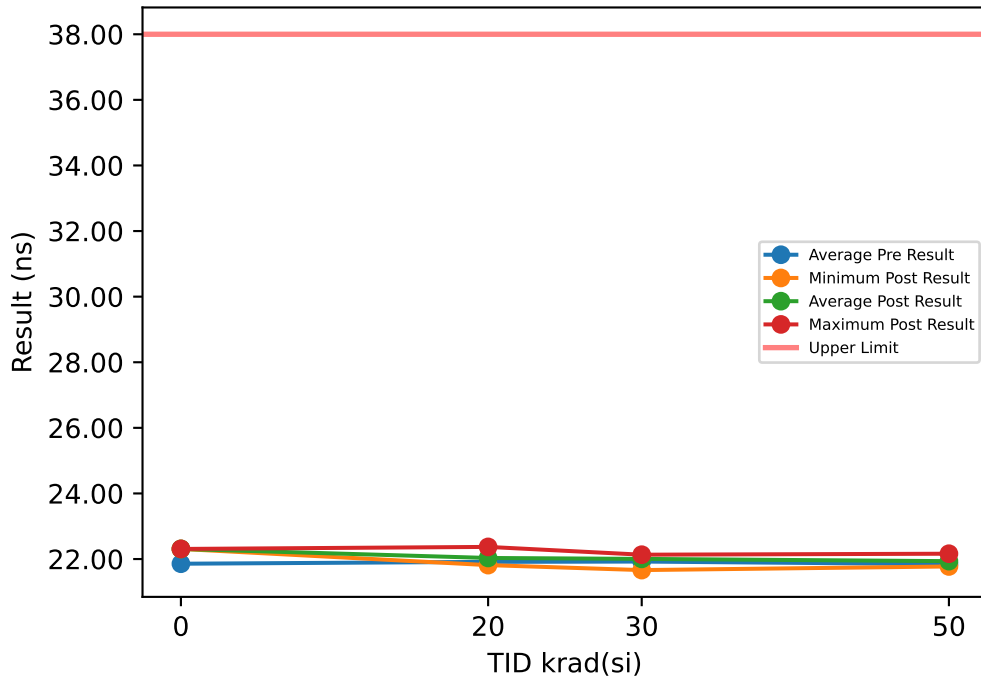


Test Statistics (ns)

| 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 | 1.5017 | 1.5017 | 1.5017 | | 1.9926 | 1.9926 | 1.9926 | | 0.4909 | 0.4909 | 0.4909 | |
| 20 | 1.1909 | 1.7572 | 2.5425 | 0.37184 | 1.0121 | 1.6396 | 2.4599 | 0.39497 | -0.3326 | -0.11763 | 0.1916 | 0.16359 |
| 30 | 1.4859 | 1.8623 | 2.3975 | 0.27735 | 1.193 | 1.6788 | 2.1127 | 0.31619 | -0.7737 | -0.18354 | 0.4469 | 0.42729 |
| 50 | 1.5694 | 1.9038 | 2.4654 | 0.27387 | 1.0529 | 1.6286 | 2.0562 | 0.29393 | -1.1345 | -0.27525 | 0.193 | 0.4454 |

Device Test: 111.2 SW_T_LPLH_IIM(Prop Delay LO On IIM Interlock VIN_12V)

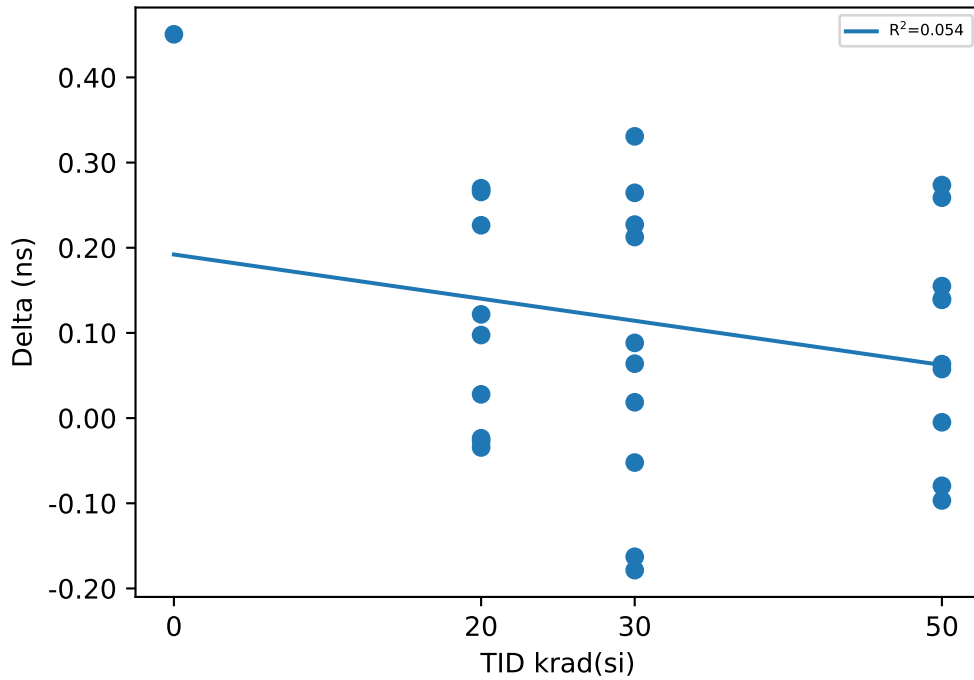
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 21.857 | 22.308 | 0.4506 |
| 321 | 20 | HDR unbiased | 21.964 | 22.062 | 0.0975 |
| 322 | 20 | HDR unbiased | 21.849 | 21.815 | -0.0345 |
| 323 | 20 | HDR unbiased | 21.954 | 22.222 | 0.268 |
| 324 | 20 | HDR unbiased | 21.881 | 21.853 | -0.0274 |
| 325 | 20 | HDR unbiased | 21.689 | 21.916 | 0.2264 |
| 331 | 30 | HDR unbiased | 21.802 | 22.133 | 0.3308 |
| 332 | 30 | HDR unbiased | 21.755 | 22.02 | 0.2645 |
| 333 | 30 | HDR unbiased | 21.9 | 22.113 | 0.2126 |
| 334 | 30 | HDR unbiased | 21.926 | 21.945 | 0.0186 |
| 335 | 30 | HDR unbiased | 21.909 | 21.973 | 0.0639 |
| 351 | 50 | HDR unbiased | 21.686 | 21.824 | 0.1388 |
| 352 | 50 | HDR unbiased | 21.716 | 21.774 | 0.0576 |
| 353 | 50 | HDR unbiased | 21.901 | 21.805 | -0.0967 |
| 354 | 50 | HDR unbiased | 21.674 | 21.829 | 0.155 |
| 355 | 50 | HDR unbiased | 21.791 | 21.854 | 0.0634 |
| 521 | 20 | HDR biased | 21.976 | 22.097 | 0.1218 |
| 522 | 20 | HDR biased | 22.195 | 22.223 | 0.0279 |
| 523 | 20 | HDR biased | 22.1 | 22.37 | 0.2699 |
| 524 | 20 | HDR biased | 21.643 | 21.909 | 0.2655 |
| 525 | 20 | HDR biased | 21.886 | 21.863 | -0.0237 |
| 531 | 30 | HDR biased | 21.896 | 22.123 | 0.2272 |
| 532 | 30 | HDR biased | 21.842 | 21.663 | -0.1785 |
| 533 | 30 | HDR biased | 22.124 | 22.072 | -0.0522 |
| 534 | 30 | HDR biased | 21.905 | 21.994 | 0.0883 |
| 535 | 30 | HDR biased | 22.174 | 22.011 | -0.1628 |
| 551 | 50 | HDR biased | 22.227 | 22.148 | -0.0795 |
| 552 | 50 | HDR biased | 21.904 | 22.162 | 0.2588 |
| 553 | 50 | HDR biased | 22.051 | 22.046 | -0.0049 |
| 554 | 50 | HDR biased | 21.677 | 21.951 | 0.2736 |
| 555 | 50 | HDR biased | 21.824 | 21.964 | 0.1401 |

TID vs Post - Pre Exposure Delta

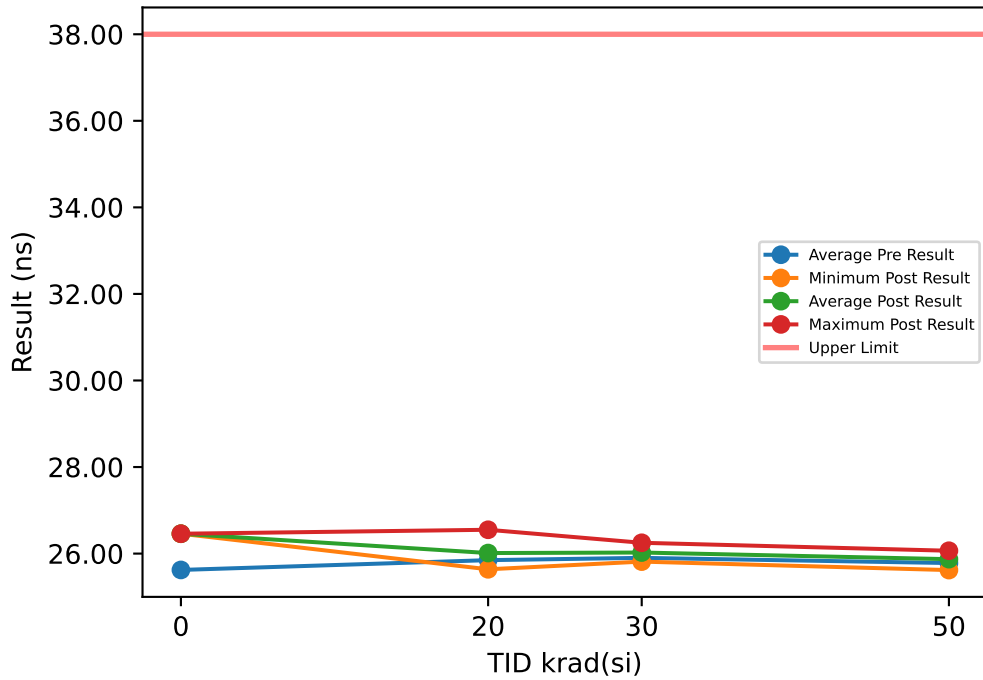


Test Statistics (ns)

| 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 | 21.857 | 21.857 | 21.857 | | 22.308 | 22.308 | 22.308 | | 0.4506 | 0.4506 | 0.4506 | |
| 20 | 21.643 | 21.914 | 22.195 | 0.16705 | 21.815 | 22.033 | 22.37 | 0.19097 | -0.0345 | 0.11914 | 0.2699 | 0.13 |
| 30 | 21.755 | 21.923 | 22.174 | 0.13109 | 21.663 | 22.004 | 22.133 | 0.13665 | -0.1785 | 0.08124 | 0.3308 | 0.17749 |
| 50 | 21.674 | 21.845 | 22.227 | 0.18194 | 21.774 | 21.936 | 22.162 | 0.14276 | -0.0967 | 0.09062 | 0.2736 | 0.12722 |

Device Test: 111.3 SW_T_LPHL_IIM(Prop Delay LO Off IIM Interlock VIN_12V)

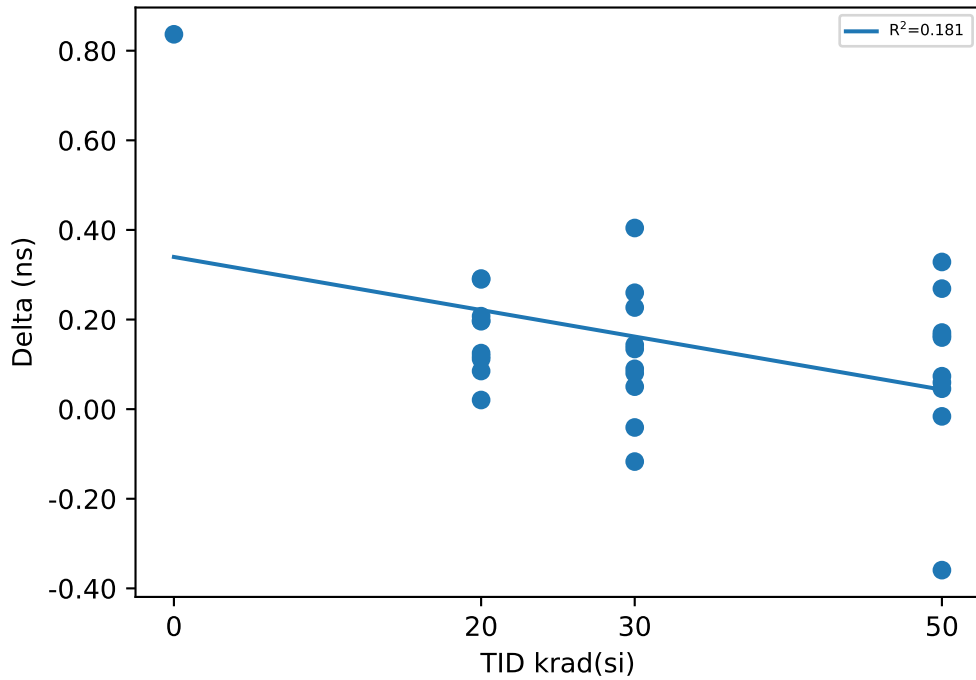
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 25.622 | 26.459 | 0.8366 |
| 321 | 20 | HDR unbiased | 25.959 | 26.071 | 0.1119 |
| 322 | 20 | HDR unbiased | 25.694 | 25.779 | 0.0851 |
| 323 | 20 | HDR unbiased | 26.261 | 26.55 | 0.2896 |
| 324 | 20 | HDR unbiased | 25.789 | 25.907 | 0.1179 |
| 325 | 20 | HDR unbiased | 25.726 | 25.923 | 0.1975 |
| 331 | 30 | HDR unbiased | 25.945 | 26.079 | 0.1343 |
| 332 | 30 | HDR unbiased | 26.038 | 26.118 | 0.0804 |
| 333 | 30 | HDR unbiased | 25.689 | 25.948 | 0.2598 |
| 334 | 30 | HDR unbiased | 25.906 | 26.049 | 0.1434 |
| 335 | 30 | HDR unbiased | 25.981 | 26.031 | 0.0502 |
| 351 | 50 | HDR unbiased | 25.658 | 25.987 | 0.3285 |
| 352 | 50 | HDR unbiased | 25.789 | 25.835 | 0.0456 |
| 353 | 50 | HDR unbiased | 25.978 | 25.619 | -0.3593 |
| 354 | 50 | HDR unbiased | 25.523 | 25.792 | 0.269 |
| 355 | 50 | HDR unbiased | 25.642 | 25.802 | 0.1598 |
| 521 | 20 | HDR biased | 25.808 | 26.005 | 0.1962 |
| 522 | 20 | HDR biased | 26.173 | 26.193 | 0.0204 |
| 523 | 20 | HDR biased | 25.96 | 26.252 | 0.2915 |
| 524 | 20 | HDR biased | 25.512 | 25.637 | 0.1251 |
| 525 | 20 | HDR biased | 25.603 | 25.811 | 0.2075 |
| 531 | 30 | HDR biased | 26.024 | 25.983 | -0.0409 |
| 532 | 30 | HDR biased | 25.725 | 25.815 | 0.09 |
| 533 | 30 | HDR biased | 26.004 | 25.887 | -0.117 |
| 534 | 30 | HDR biased | 25.859 | 26.086 | 0.2268 |
| 535 | 30 | HDR biased | 25.846 | 26.25 | 0.4043 |
| 551 | 50 | HDR biased | 25.892 | 25.876 | -0.0161 |
| 552 | 50 | HDR biased | 25.992 | 26.066 | 0.0735 |
| 553 | 50 | HDR biased | 25.789 | 25.96 | 0.171 |
| 554 | 50 | HDR biased | 25.708 | 25.872 | 0.1644 |
| 555 | 50 | HDR biased | 25.845 | 25.904 | 0.0595 |

TID vs Post - Pre Exposure Delta

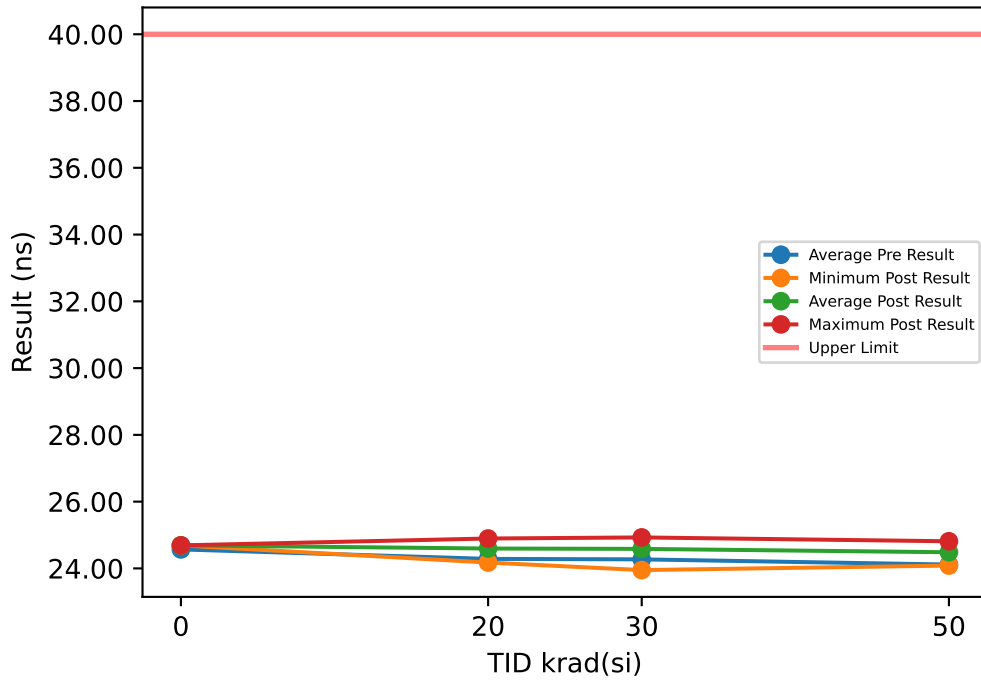


Test Statistics (ns)

| 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 | 25.622 | 25.622 | 25.622 | | 26.459 | 26.459 | 26.459 | | 0.8366 | 0.8366 | 0.8366 | |
| 20 | 25.512 | 25.848 | 26.261 | 0.23977 | 25.637 | 26.013 | 26.55 | 0.26626 | 0.0204 | 0.16427 | 0.2915 | 0.087738 |
| 30 | 25.689 | 25.901 | 26.038 | 0.12183 | 25.815 | 26.025 | 26.25 | 0.12351 | -0.117 | 0.12313 | 0.4043 | 0.14975 |
| 50 | 25.523 | 25.782 | 25.992 | 0.15142 | 25.619 | 25.871 | 26.066 | 0.12308 | -0.3593 | 0.08959 | 0.3285 | 0.18921 |

Device Test: 111.4 SW_T_HPLH_IIM(Prop Delay HO On IIM Interlock VIN_12V)

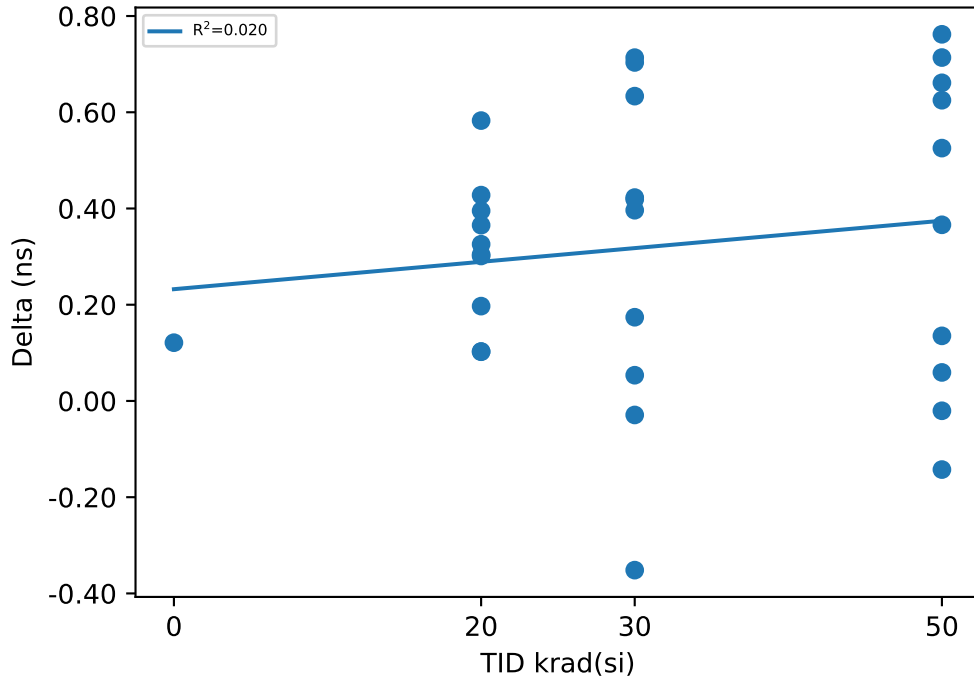
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 24.569 | 24.69 | 0.1211 |
| 321 | 20 | HDR unbiased | 24.49 | 24.687 | 0.1971 |
| 322 | 20 | HDR unbiased | 24.123 | 24.226 | 0.1023 |
| 323 | 20 | HDR unbiased | 23.81 | 24.175 | 0.3653 |
| 324 | 20 | HDR unbiased | 24.3 | 24.626 | 0.3257 |
| 325 | 20 | HDR unbiased | 24.192 | 24.775 | 0.5827 |
| 331 | 30 | HDR unbiased | 24.224 | 24.928 | 0.7035 |
| 332 | 30 | HDR unbiased | 23.719 | 24.352 | 0.6335 |
| 333 | 30 | HDR unbiased | 24.469 | 24.643 | 0.174 |
| 334 | 30 | HDR unbiased | 24.354 | 24.773 | 0.419 |
| 335 | 30 | HDR unbiased | 24.158 | 24.555 | 0.3964 |
| 351 | 50 | HDR unbiased | 24.221 | 24.588 | 0.3661 |
| 352 | 50 | HDR unbiased | 24.192 | 24.171 | -0.0204 |
| 353 | 50 | HDR unbiased | 24.188 | 24.813 | 0.625 |
| 354 | 50 | HDR unbiased | 23.811 | 24.573 | 0.762 |
| 355 | 50 | HDR unbiased | 24.228 | 24.085 | -0.1426 |
| 521 | 20 | HDR biased | 24.326 | 24.428 | 0.1028 |
| 522 | 20 | HDR biased | 24.308 | 24.735 | 0.4278 |
| 523 | 20 | HDR biased | 24.363 | 24.668 | 0.3043 |
| 524 | 20 | HDR biased | 24.5 | 24.895 | 0.3952 |
| 525 | 20 | HDR biased | 24.438 | 24.739 | 0.3013 |
| 531 | 30 | HDR biased | 24.136 | 24.849 | 0.7135 |
| 532 | 30 | HDR biased | 24.301 | 23.95 | -0.3516 |
| 533 | 30 | HDR biased | 24.473 | 24.895 | 0.4227 |
| 534 | 30 | HDR biased | 24.413 | 24.467 | 0.0535 |
| 535 | 30 | HDR biased | 24.463 | 24.434 | -0.0291 |
| 551 | 50 | HDR biased | 24.098 | 24.624 | 0.5255 |
| 552 | 50 | HDR biased | 23.783 | 24.497 | 0.7137 |
| 553 | 50 | HDR biased | 24.305 | 24.364 | 0.0593 |
| 554 | 50 | HDR biased | 24.128 | 24.79 | 0.6612 |
| 555 | 50 | HDR biased | 24.195 | 24.331 | 0.1353 |

TID vs Post - Pre Exposure Delta

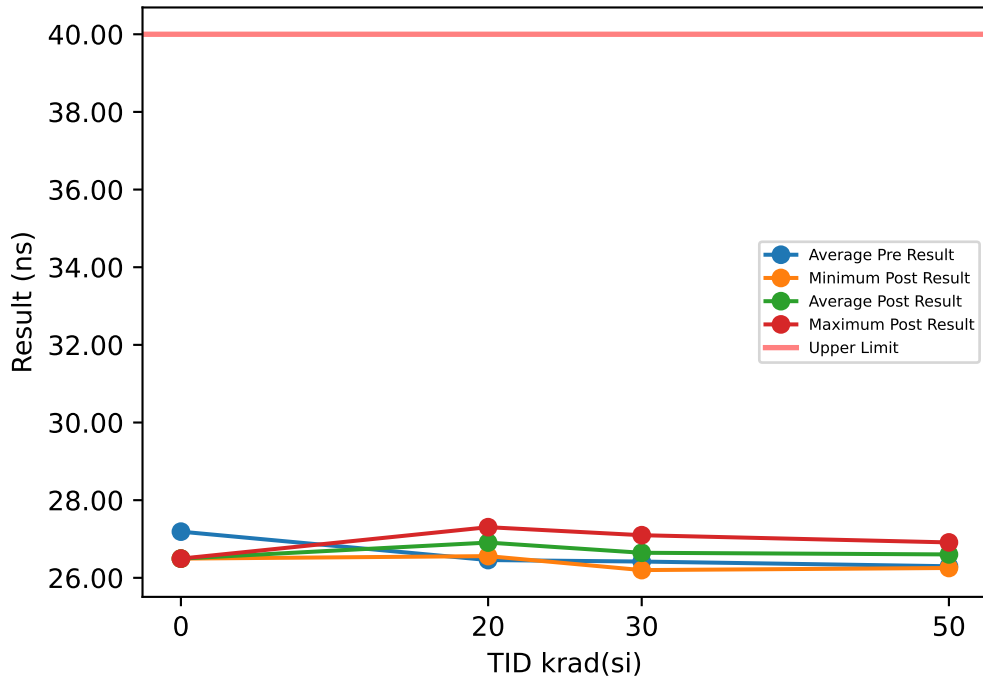


Test Statistics (ns)

| 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 | 24.569 | 24.569 | 24.569 | | 24.69 | 24.69 | 24.69 | | 0.1211 | 0.1211 | 0.1211 | |
| 20 | 23.81 | 24.285 | 24.5 | 0.20564 | 24.175 | 24.595 | 24.895 | 0.2399 | 0.1023 | 0.31045 | 0.5827 | 0.14822 |
| 30 | 23.719 | 24.271 | 24.473 | 0.23164 | 23.95 | 24.585 | 24.928 | 0.30149 | -0.3516 | 0.31354 | 0.7135 | 0.3482 |
| 50 | 23.783 | 24.115 | 24.305 | 0.17655 | 24.085 | 24.484 | 24.813 | 0.24374 | -0.1426 | 0.36851 | 0.762 | 0.33542 |

Device Test: 111.5 SW_T_HPHL_IIM(_Prop Delay HO Off IIM Interlock VIN_12V)

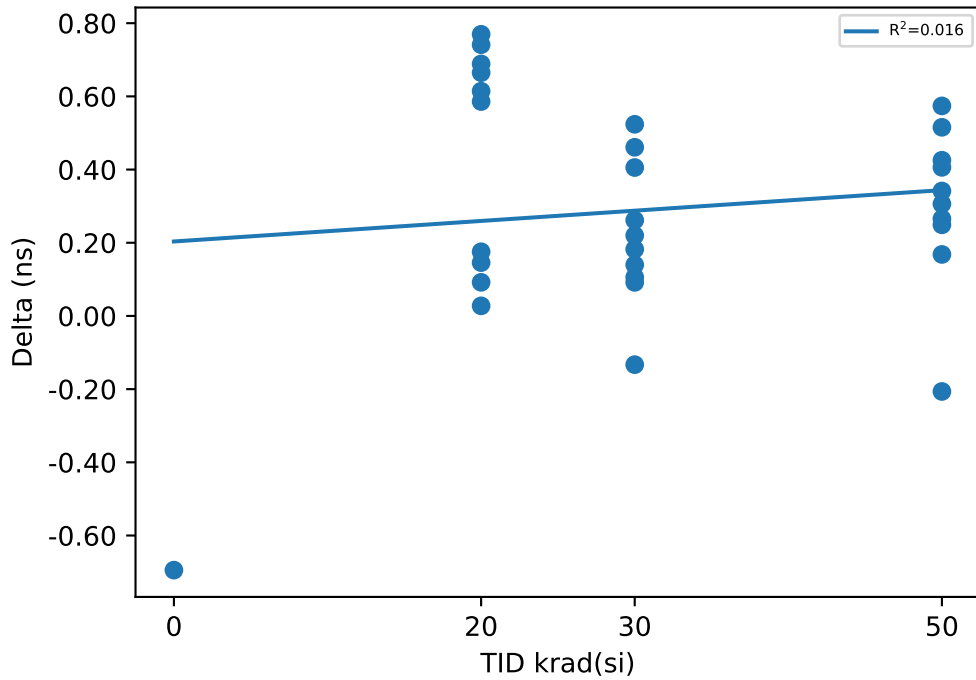
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 27.189 | 26.495 | -0.6946 |
| 321 | 20 | HDR unbiased | 26.445 | 27.186 | 0.7412 |
| 322 | 20 | HDR unbiased | 26.244 | 26.908 | 0.6648 |
| 323 | 20 | HDR unbiased | 26.037 | 26.726 | 0.6887 |
| 324 | 20 | HDR unbiased | 26.397 | 26.572 | 0.1754 |
| 325 | 20 | HDR unbiased | 26.713 | 26.741 | 0.0276 |
| 331 | 30 | HDR unbiased | 26.492 | 26.675 | 0.1822 |
| 332 | 30 | HDR unbiased | 26.06 | 26.199 | 0.1397 |
| 333 | 30 | HDR unbiased | 26.692 | 27.098 | 0.4056 |
| 334 | 30 | HDR unbiased | 26.195 | 26.415 | 0.2199 |
| 335 | 30 | HDR unbiased | 26.488 | 26.58 | 0.0917 |
| 351 | 50 | HDR unbiased | 26.632 | 26.425 | -0.2064 |
| 352 | 50 | HDR unbiased | 26.166 | 26.74 | 0.5739 |
| 353 | 50 | HDR unbiased | 26.155 | 26.581 | 0.4255 |
| 354 | 50 | HDR unbiased | 26.044 | 26.45 | 0.406 |
| 355 | 50 | HDR unbiased | 26.25 | 26.592 | 0.3414 |
| 521 | 20 | HDR biased | 26.635 | 27.221 | 0.5859 |
| 522 | 20 | HDR biased | 26.413 | 26.559 | 0.1457 |
| 523 | 20 | HDR biased | 26.483 | 27.097 | 0.6142 |
| 524 | 20 | HDR biased | 26.675 | 26.767 | 0.0919 |
| 525 | 20 | HDR biased | 26.535 | 27.304 | 0.7696 |
| 531 | 30 | HDR biased | 26.422 | 26.683 | 0.2617 |
| 532 | 30 | HDR biased | 26.343 | 26.21 | -0.1331 |
| 533 | 30 | HDR biased | 26.441 | 26.547 | 0.1059 |
| 534 | 30 | HDR biased | 26.45 | 26.973 | 0.5237 |
| 535 | 30 | HDR biased | 26.612 | 27.073 | 0.4609 |
| 551 | 50 | HDR biased | 26.21 | 26.459 | 0.249 |
| 552 | 50 | HDR biased | 26.085 | 26.253 | 0.1681 |
| 553 | 50 | HDR biased | 26.358 | 26.873 | 0.5155 |
| 554 | 50 | HDR biased | 26.479 | 26.745 | 0.2656 |
| 555 | 50 | HDR biased | 26.606 | 26.912 | 0.3063 |

TID vs Post - Pre Exposure Delta

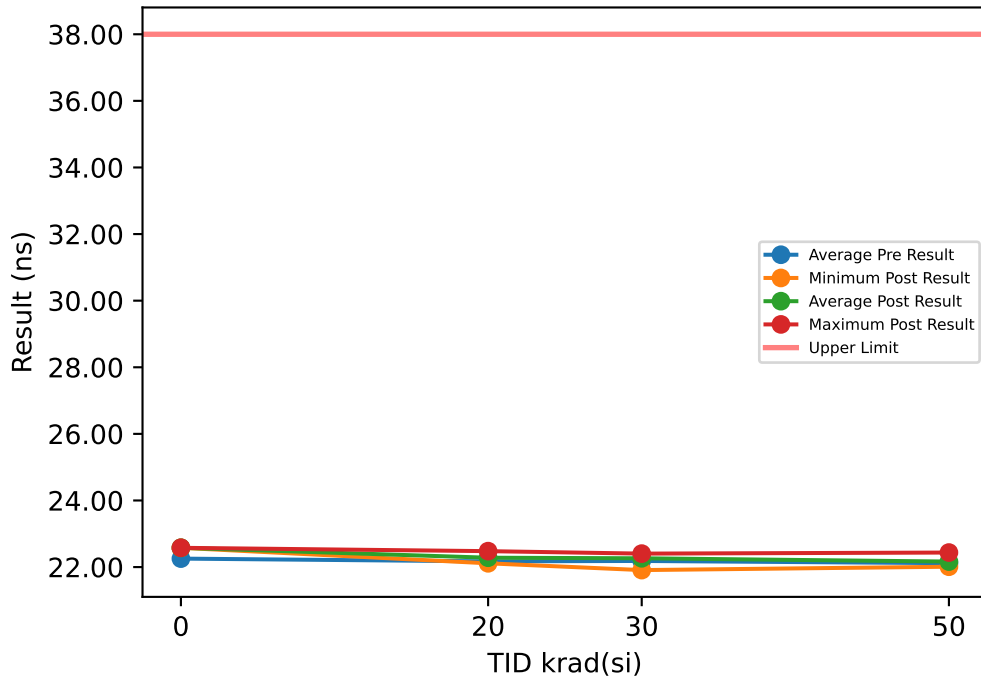


Test Statistics (ns)

| 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 | 27.189 | 27.189 | 27.189 | | 26.495 | 26.495 | 26.495 | | -0.6946 | -0.6946 | -0.6946 | |
| 20 | 26.037 | 26.458 | 26.713 | 0.20526 | 26.559 | 26.908 | 27.304 | 0.27561 | 0.0276 | 0.4505 | 0.7696 | 0.30003 |
| 30 | 26.06 | 26.419 | 26.692 | 0.18518 | 26.199 | 26.645 | 27.098 | 0.32541 | -0.1331 | 0.22582 | 0.5237 | 0.19668 |
| 50 | 26.044 | 26.298 | 26.632 | 0.21098 | 26.253 | 26.603 | 26.912 | 0.21248 | -0.2064 | 0.30449 | 0.5739 | 0.21798 |

Device Test: 111.6 SW_T_LPLH_IIM(Prop Delay LO On IIM Interlock Disable VIN_12V)

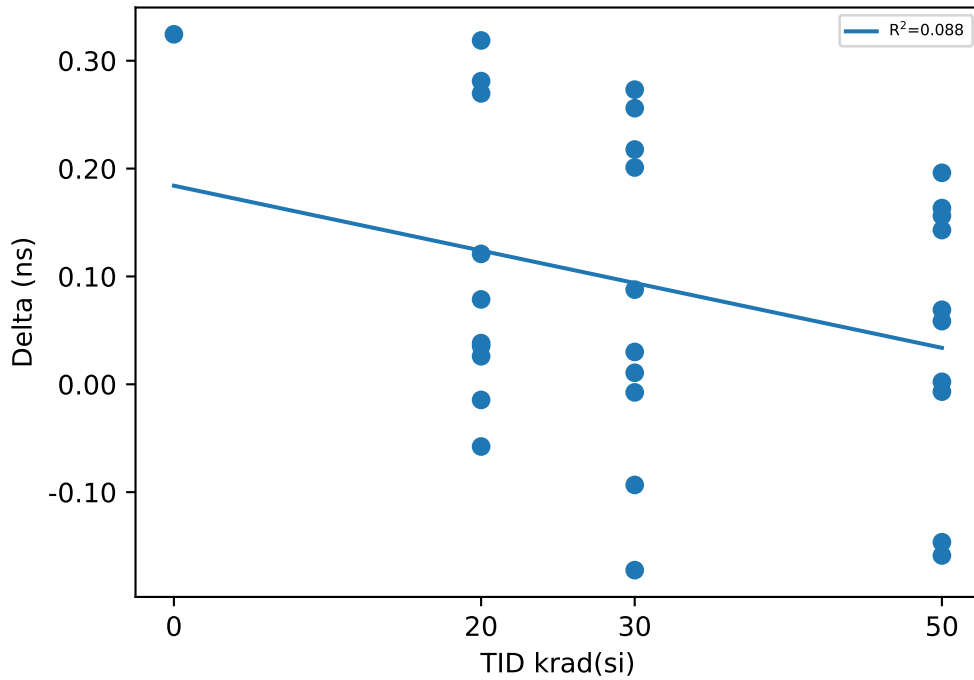
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 22.254 | 22.579 | 0.3245 |
| 321 | 20 | HDR unbiased | 22.22 | 22.258 | 0.0382 |
| 322 | 20 | HDR unbiased | 22.128 | 22.206 | 0.0787 |
| 323 | 20 | HDR unbiased | 22.206 | 22.476 | 0.2697 |
| 324 | 20 | HDR unbiased | 22.128 | 22.113 | -0.0145 |
| 325 | 20 | HDR unbiased | 21.869 | 22.188 | 0.3188 |
| 331 | 30 | HDR unbiased | 22.173 | 22.391 | 0.2177 |
| 332 | 30 | HDR unbiased | 21.975 | 22.231 | 0.256 |
| 333 | 30 | HDR unbiased | 22.18 | 22.381 | 0.201 |
| 334 | 30 | HDR unbiased | 22.213 | 22.243 | 0.03 |
| 335 | 30 | HDR unbiased | 22.213 | 22.224 | 0.0107 |
| 351 | 50 | HDR unbiased | 21.905 | 22.068 | 0.1634 |
| 352 | 50 | HDR unbiased | 22.017 | 22.011 | -0.0068 |
| 353 | 50 | HDR unbiased | 22.066 | 22.068 | 0.0023 |
| 354 | 50 | HDR unbiased | 21.857 | 22.053 | 0.1961 |
| 355 | 50 | HDR unbiased | 22.075 | 22.134 | 0.0586 |
| 521 | 20 | HDR biased | 22.302 | 22.328 | 0.026 |
| 522 | 20 | HDR biased | 22.536 | 22.478 | -0.0577 |
| 523 | 20 | HDR biased | 22.346 | 22.467 | 0.1209 |
| 524 | 20 | HDR biased | 21.851 | 22.132 | 0.2811 |
| 525 | 20 | HDR biased | 22.13 | 22.166 | 0.0354 |
| 531 | 30 | HDR biased | 22.131 | 22.404 | 0.2732 |
| 532 | 30 | HDR biased | 22.082 | 21.91 | -0.1723 |
| 533 | 30 | HDR biased | 22.407 | 22.314 | -0.0933 |
| 534 | 30 | HDR biased | 22.179 | 22.267 | 0.0878 |
| 535 | 30 | HDR biased | 22.284 | 22.277 | -0.0075 |
| 551 | 50 | HDR biased | 22.555 | 22.396 | -0.1587 |
| 552 | 50 | HDR biased | 22.293 | 22.436 | 0.143 |
| 553 | 50 | HDR biased | 22.33 | 22.184 | -0.1464 |
| 554 | 50 | HDR biased | 22.016 | 22.172 | 0.1562 |
| 555 | 50 | HDR biased | 22.064 | 22.133 | 0.0691 |

TID vs Post - Pre Exposure Delta

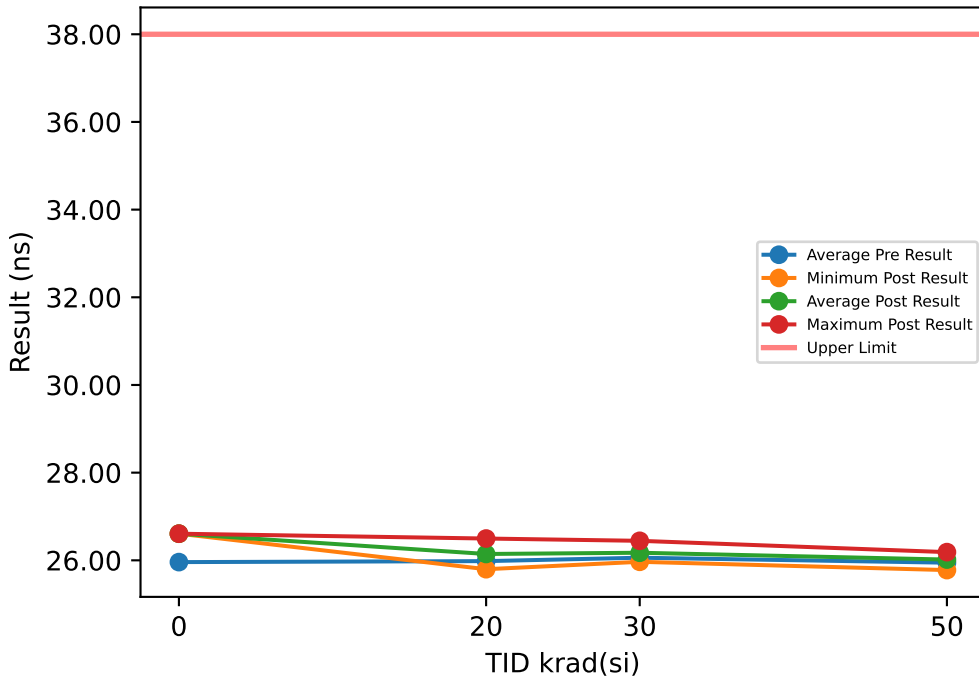


Test Statistics (ns)

| 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 | 22.254 | 22.254 | 22.254 | | 22.579 | 22.579 | 22.579 | | 0.3245 | 0.3245 | 0.3245 | |
| 20 | 21.851 | 22.172 | 22.536 | 0.20637 | 22.113 | 22.281 | 22.478 | 0.14604 | -0.0577 | 0.10966 | 0.3188 | 0.1337 |
| 30 | 21.975 | 22.184 | 22.407 | 0.11462 | 21.91 | 22.264 | 22.404 | 0.1417 | -0.1723 | 0.08033 | 0.2732 | 0.15297 |
| 50 | 21.857 | 22.118 | 22.555 | 0.21291 | 22.011 | 22.166 | 22.436 | 0.14319 | -0.1587 | 0.04768 | 0.1961 | 0.12567 |

Device Test: 111.7 SW_T_LPHL_IIM(Prop Delay LO Off IIM Interlock Disable VIN_12V)

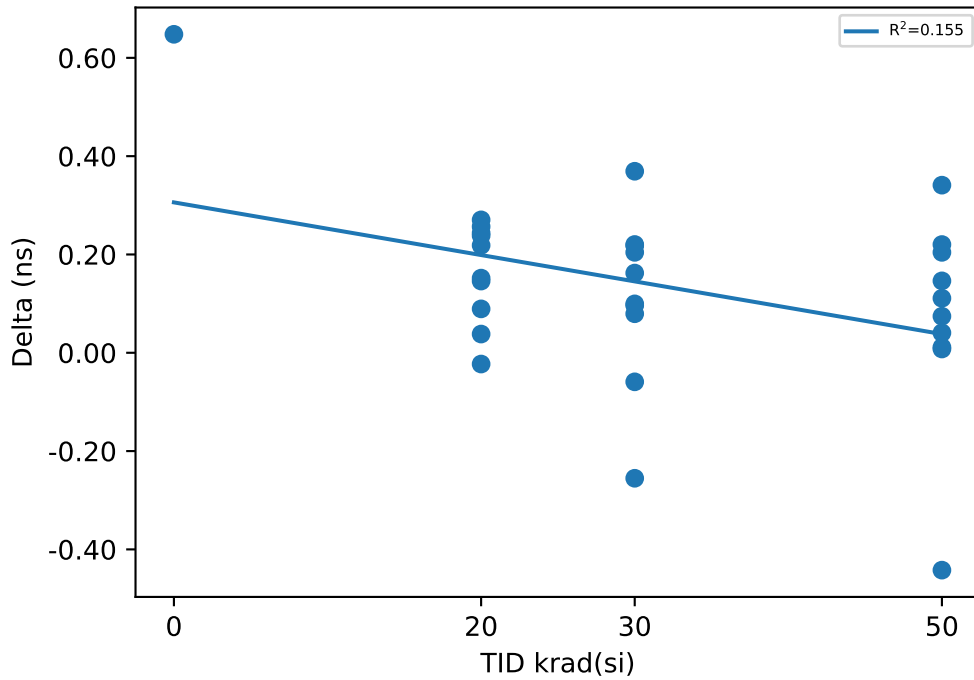
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 25.959 | 26.607 | 0.6479 |
| 321 | 20 | HDR unbiased | 26.101 | 26.253 | 0.1519 |
| 322 | 20 | HDR unbiased | 25.846 | 26.116 | 0.2704 |
| 323 | 20 | HDR unbiased | 26.259 | 26.497 | 0.2382 |
| 324 | 20 | HDR unbiased | 25.951 | 26.04 | 0.0893 |
| 325 | 20 | HDR unbiased | 25.809 | 26.028 | 0.2186 |
| 331 | 30 | HDR unbiased | 26.023 | 26.244 | 0.2203 |
| 332 | 30 | HDR unbiased | 26.083 | 26.3 | 0.2179 |
| 333 | 30 | HDR unbiased | 25.909 | 26.113 | 0.2043 |
| 334 | 30 | HDR unbiased | 26.08 | 26.18 | 0.0995 |
| 335 | 30 | HDR unbiased | 26.107 | 26.204 | 0.0963 |
| 351 | 50 | HDR unbiased | 25.802 | 26.143 | 0.341 |
| 352 | 50 | HDR unbiased | 25.939 | 26.144 | 0.2043 |
| 353 | 50 | HDR unbiased | 26.22 | 25.777 | -0.4422 |
| 354 | 50 | HDR unbiased | 25.804 | 25.915 | 0.1109 |
| 355 | 50 | HDR unbiased | 25.885 | 25.896 | 0.0113 |
| 521 | 20 | HDR biased | 26.026 | 26.003 | -0.0229 |
| 522 | 20 | HDR biased | 26.309 | 26.347 | 0.0381 |
| 523 | 20 | HDR biased | 26.137 | 26.394 | 0.2567 |
| 524 | 20 | HDR biased | 25.652 | 25.797 | 0.1459 |
| 525 | 20 | HDR biased | 25.728 | 25.972 | 0.2436 |
| 531 | 30 | HDR biased | 26.201 | 26.142 | -0.0591 |
| 532 | 30 | HDR biased | 25.887 | 25.966 | 0.0794 |
| 533 | 30 | HDR biased | 26.266 | 26.01 | -0.2553 |
| 534 | 30 | HDR biased | 25.965 | 26.127 | 0.1622 |
| 535 | 30 | HDR biased | 26.076 | 26.445 | 0.3693 |
| 551 | 50 | HDR biased | 25.953 | 26.027 | 0.0743 |
| 552 | 50 | HDR biased | 26.179 | 26.187 | 0.0077 |
| 553 | 50 | HDR biased | 25.894 | 25.934 | 0.0406 |
| 554 | 50 | HDR biased | 25.821 | 26.042 | 0.2202 |
| 555 | 50 | HDR biased | 25.963 | 26.109 | 0.1463 |

TID vs Post - Pre Exposure Delta

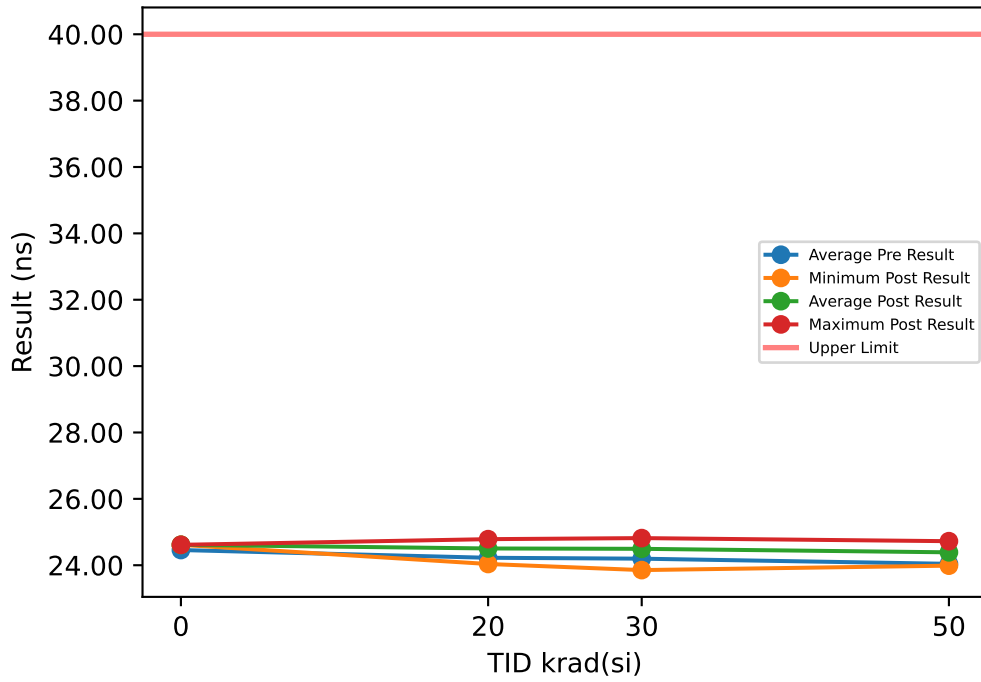


Test Statistics (ns)

| 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 | 25.959 | 25.959 | 25.959 | | 26.607 | 26.607 | 26.607 | | 0.6479 | 0.6479 | 0.6479 | |
| 20 | 25.652 | 25.982 | 26.309 | 0.2229 | 25.797 | 26.145 | 26.497 | 0.21989 | -0.0229 | 0.16298 | 0.2704 | 0.10086 |
| 30 | 25.887 | 26.06 | 26.266 | 0.11966 | 25.966 | 26.173 | 26.445 | 0.13827 | -0.2553 | 0.11348 | 0.3693 | 0.17186 |
| 50 | 25.802 | 25.946 | 26.22 | 0.14627 | 25.777 | 26.017 | 26.187 | 0.13302 | -0.4422 | 0.07144 | 0.341 | 0.20872 |

Device Test: 111.8 SW_T_HPLH_IIM(Prop Delay HO On IIM Interlock Disable VIN_12V)

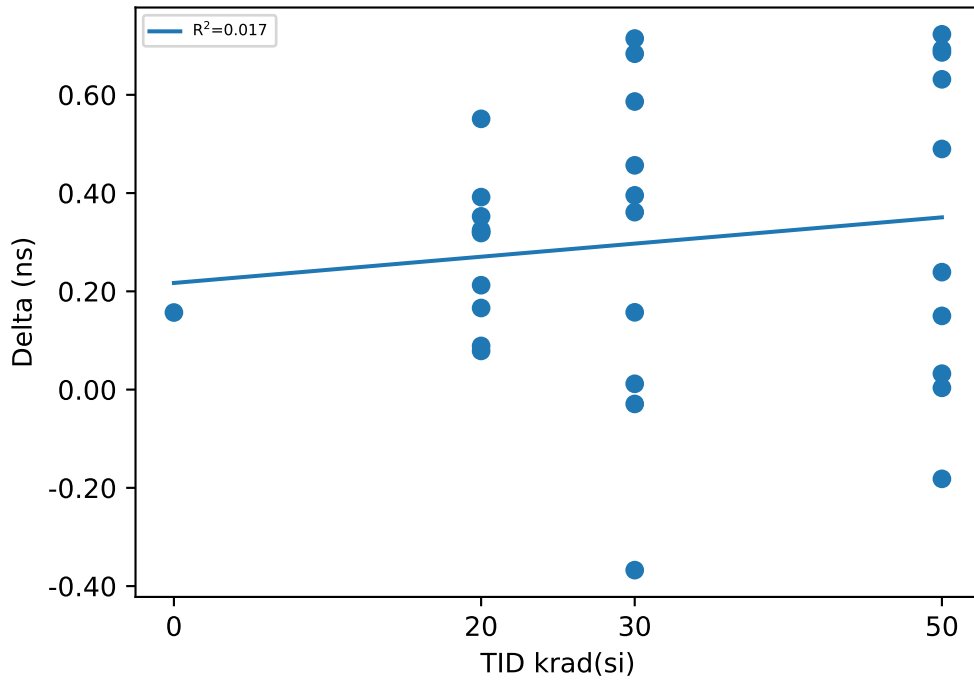
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 24.458 | 24.615 | 0.1569 |
| 321 | 20 | HDR unbiased | 24.427 | 24.593 | 0.1661 |
| 322 | 20 | HDR unbiased | 24.08 | 24.158 | 0.0787 |
| 323 | 20 | HDR unbiased | 23.716 | 24.037 | 0.3208 |
| 324 | 20 | HDR unbiased | 24.186 | 24.578 | 0.3918 |
| 325 | 20 | HDR unbiased | 24.119 | 24.67 | 0.5511 |
| 331 | 30 | HDR unbiased | 24.128 | 24.812 | 0.6837 |
| 332 | 30 | HDR unbiased | 23.685 | 24.271 | 0.5864 |
| 333 | 30 | HDR unbiased | 24.423 | 24.58 | 0.1573 |
| 334 | 30 | HDR unbiased | 24.295 | 24.656 | 0.3612 |
| 335 | 30 | HDR unbiased | 24.098 | 24.494 | 0.3954 |
| 351 | 50 | HDR unbiased | 24.232 | 24.471 | 0.2391 |
| 352 | 50 | HDR unbiased | 24.055 | 24.087 | 0.0324 |
| 353 | 50 | HDR unbiased | 24.032 | 24.724 | 0.6923 |
| 354 | 50 | HDR unbiased | 23.737 | 24.46 | 0.7232 |
| 355 | 50 | HDR unbiased | 24.169 | 23.987 | -0.1817 |
| 521 | 20 | HDR biased | 24.246 | 24.334 | 0.0889 |
| 522 | 20 | HDR biased | 24.288 | 24.607 | 0.3187 |
| 523 | 20 | HDR biased | 24.287 | 24.639 | 0.3526 |
| 524 | 20 | HDR biased | 24.461 | 24.785 | 0.3248 |
| 525 | 20 | HDR biased | 24.436 | 24.649 | 0.2125 |
| 531 | 30 | HDR biased | 24.026 | 24.74 | 0.7146 |
| 532 | 30 | HDR biased | 24.221 | 23.854 | -0.3675 |
| 533 | 30 | HDR biased | 24.361 | 24.817 | 0.4565 |
| 534 | 30 | HDR biased | 24.38 | 24.351 | -0.0292 |
| 535 | 30 | HDR biased | 24.356 | 24.368 | 0.0118 |
| 551 | 50 | HDR biased | 24.016 | 24.505 | 0.4898 |
| 552 | 50 | HDR biased | 23.714 | 24.4 | 0.6863 |
| 553 | 50 | HDR biased | 24.267 | 24.271 | 0.0036 |
| 554 | 50 | HDR biased | 24.061 | 24.693 | 0.6316 |
| 555 | 50 | HDR biased | 24.139 | 24.288 | 0.15 |

TID vs Post - Pre Exposure Delta

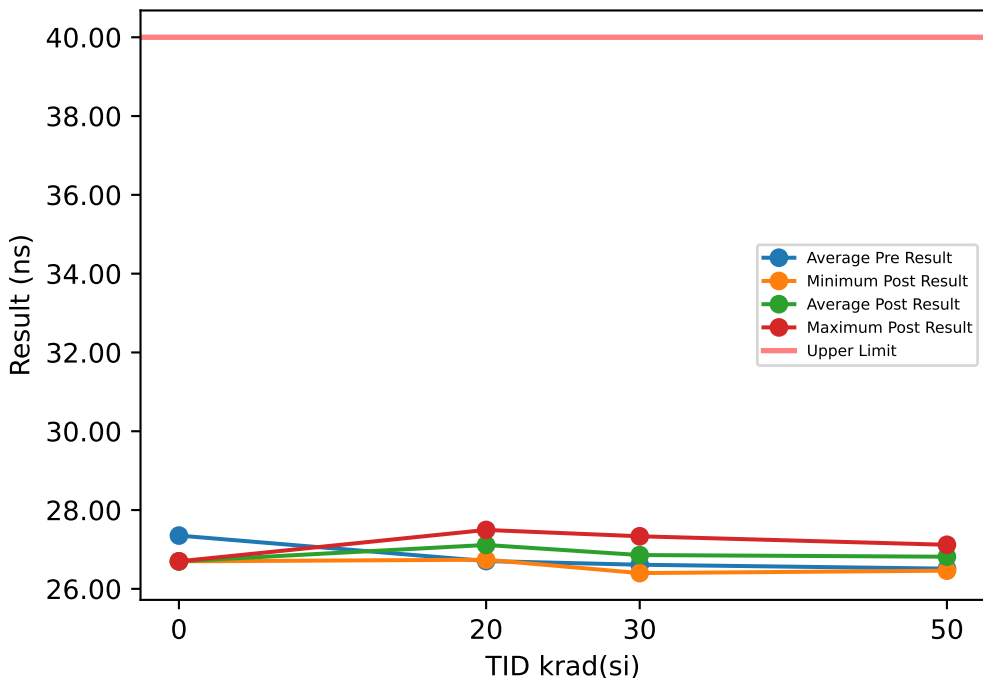


Test Statistics (ns)

| 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 | 24.458 | 24.458 | 24.458 | | 24.615 | 24.615 | 24.615 | | 0.1569 | 0.1569 | 0.1569 | |
| 20 | 23.716 | 24.225 | 24.461 | 0.22158 | 24.037 | 24.505 | 24.785 | 0.24407 | 0.0787 | 0.2806 | 0.5511 | 0.14568 |
| 30 | 23.685 | 24.197 | 24.423 | 0.22425 | 23.854 | 24.494 | 24.817 | 0.29743 | -0.3675 | 0.29702 | 0.7146 | 0.34893 |
| 50 | 23.714 | 24.042 | 24.267 | 0.18693 | 23.987 | 24.389 | 24.724 | 0.23729 | -0.1817 | 0.34666 | 0.7232 | 0.33733 |

Device Test: 111.9 SW_T_HPHL_IIM(Prop Delay HO Off IIM Interlock Disable VIN_12V)

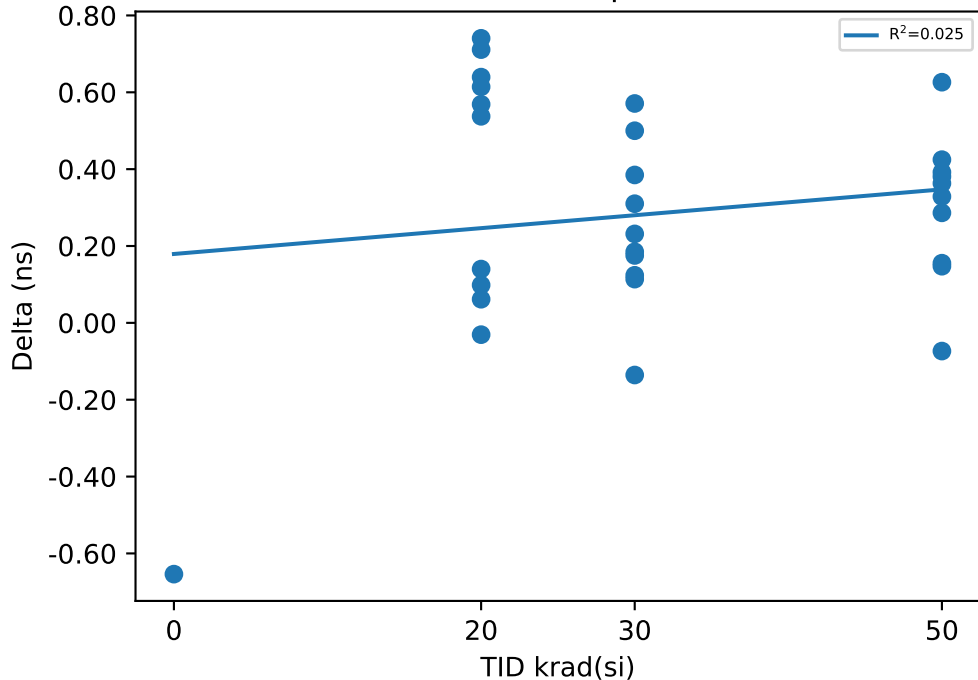
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 27.352 | 26.698 | -0.6539 |
| 321 | 20 | HDR unbiased | 26.653 | 27.393 | 0.7405 |
| 322 | 20 | HDR unbiased | 26.466 | 27.106 | 0.6395 |
| 323 | 20 | HDR unbiased | 26.299 | 26.913 | 0.6143 |
| 324 | 20 | HDR unbiased | 26.688 | 26.786 | 0.0984 |
| 325 | 20 | HDR unbiased | 26.88 | 26.942 | 0.0615 |
| 331 | 30 | HDR unbiased | 26.8 | 26.924 | 0.1238 |
| 332 | 30 | HDR unbiased | 26.221 | 26.406 | 0.185 |
| 333 | 30 | HDR unbiased | 26.903 | 27.288 | 0.3849 |
| 334 | 30 | HDR unbiased | 26.371 | 26.602 | 0.2315 |
| 335 | 30 | HDR unbiased | 26.698 | 26.812 | 0.1138 |
| 351 | 50 | HDR unbiased | 26.673 | 26.6 | -0.0734 |
| 352 | 50 | HDR unbiased | 26.36 | 26.987 | 0.6263 |
| 353 | 50 | HDR unbiased | 26.474 | 26.837 | 0.3631 |
| 354 | 50 | HDR unbiased | 26.24 | 26.665 | 0.4247 |
| 355 | 50 | HDR unbiased | 26.471 | 26.799 | 0.3288 |
| 521 | 20 | HDR biased | 26.85 | 27.419 | 0.5687 |
| 522 | 20 | HDR biased | 26.599 | 26.739 | 0.14 |
| 523 | 20 | HDR biased | 26.805 | 27.343 | 0.5375 |
| 524 | 20 | HDR biased | 27.033 | 27.002 | -0.0307 |
| 525 | 20 | HDR biased | 26.784 | 27.495 | 0.7111 |
| 531 | 30 | HDR biased | 26.602 | 26.912 | 0.3101 |
| 532 | 30 | HDR biased | 26.536 | 26.4 | -0.1357 |
| 533 | 30 | HDR biased | 26.588 | 26.763 | 0.1754 |
| 534 | 30 | HDR biased | 26.638 | 27.138 | 0.5 |
| 535 | 30 | HDR biased | 26.763 | 27.334 | 0.5709 |
| 551 | 50 | HDR biased | 26.394 | 26.68 | 0.2863 |
| 552 | 50 | HDR biased | 26.306 | 26.461 | 0.1553 |
| 553 | 50 | HDR biased | 26.673 | 27.065 | 0.392 |
| 554 | 50 | HDR biased | 26.795 | 26.942 | 0.1474 |
| 555 | 50 | HDR biased | 26.738 | 27.118 | 0.3809 |

TID vs Post - Pre Exposure Delta

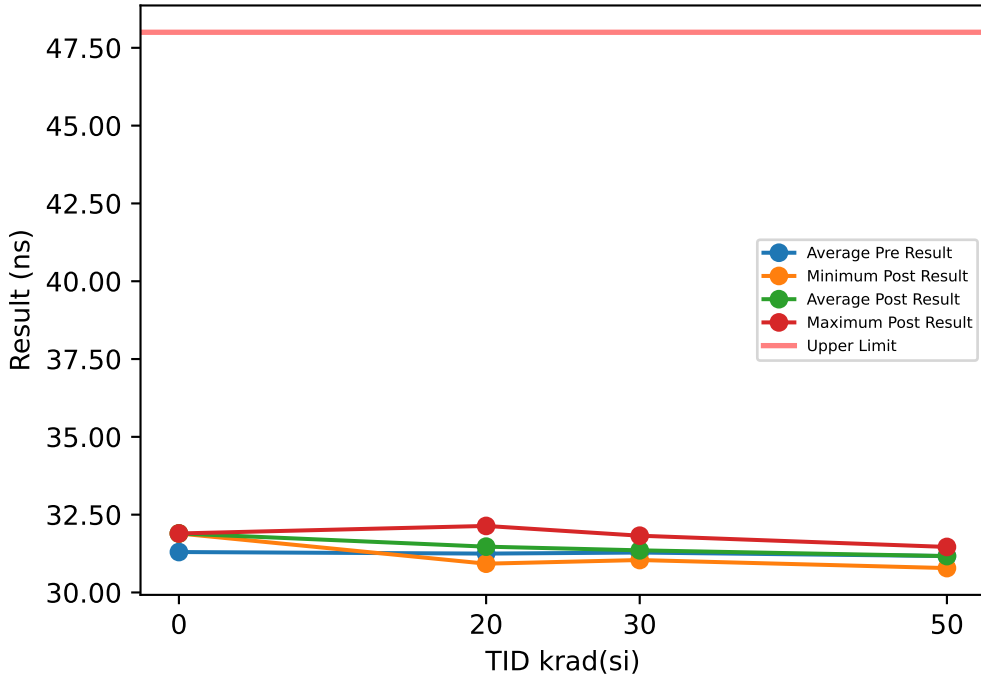


Test Statistics (ns)

| 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 | 27.352 | 27.352 | 27.352 | | 26.698 | 26.698 | 26.698 | | -0.6539 | -0.6539 | -0.6539 | |
| 20 | 26.299 | 26.706 | 27.033 | 0.21382 | 26.739 | 27.114 | 27.495 | 0.2787 | -0.0307 | 0.40808 | 0.7405 | 0.3021 |
| 30 | 26.221 | 26.612 | 26.903 | 0.20233 | 26.4 | 26.858 | 27.334 | 0.33126 | -0.1357 | 0.24597 | 0.5709 | 0.20562 |
| 50 | 26.24 | 26.512 | 26.795 | 0.19416 | 26.461 | 26.816 | 27.118 | 0.21425 | -0.0734 | 0.30314 | 0.6263 | 0.1902 |

Device Test: 112.0 SW_T_LPHL_PWM(_Prop Delay LO Off PWM VIN_14V)

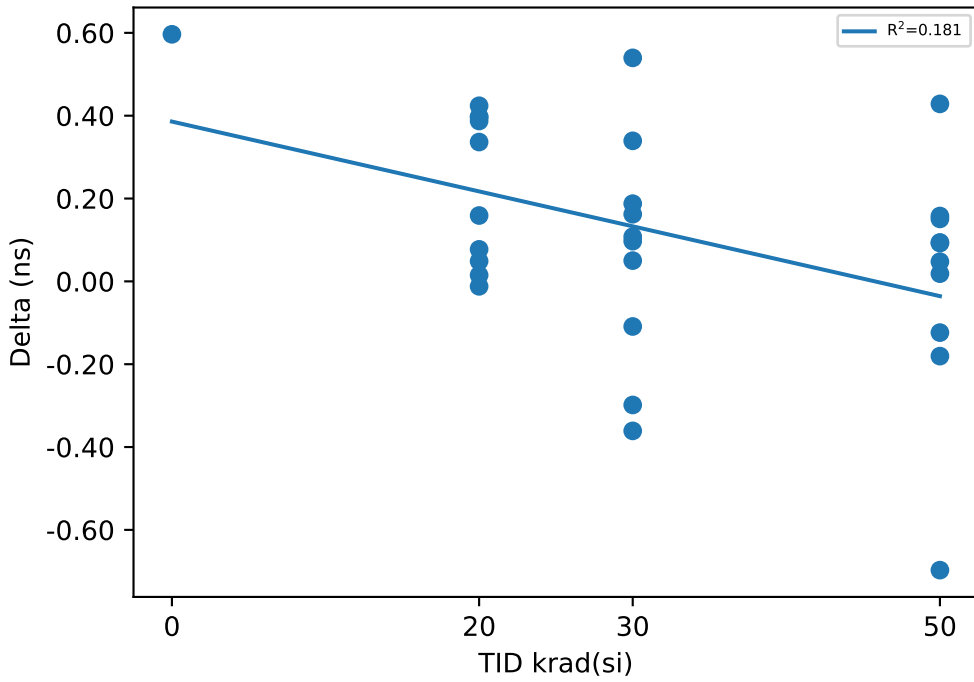
TID vs Result Stats



Test Results (Upper Limit = 48.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 31.299 | 31.895 | 0.5965 |
| 321 | 20 | HDR unbiased | 31.162 | 31.499 | 0.3364 |
| 322 | 20 | HDR unbiased | 31.195 | 31.592 | 0.3974 |
| 323 | 20 | HDR unbiased | 31.75 | 32.138 | 0.3872 |
| 324 | 20 | HDR unbiased | 31.301 | 31.35 | 0.0489 |
| 325 | 20 | HDR unbiased | 31.217 | 31.376 | 0.159 |
| 331 | 30 | HDR unbiased | 31.18 | 31.277 | 0.0971 |
| 332 | 30 | HDR unbiased | 31.428 | 31.615 | 0.1876 |
| 333 | 30 | HDR unbiased | 30.871 | 31.21 | 0.3393 |
| 334 | 30 | HDR unbiased | 31.179 | 31.286 | 0.1078 |
| 335 | 30 | HDR unbiased | 31.262 | 31.312 | 0.0501 |
| 351 | 50 | HDR unbiased | 30.941 | 31.37 | 0.4285 |
| 352 | 50 | HDR unbiased | 31.196 | 31.215 | 0.0186 |
| 353 | 50 | HDR unbiased | 31.48 | 30.783 | -0.6972 |
| 354 | 50 | HDR unbiased | 30.95 | 31.108 | 0.1578 |
| 355 | 50 | HDR unbiased | 31.116 | 30.992 | -0.1237 |
| 521 | 20 | HDR biased | 31.246 | 31.261 | 0.015 |
| 522 | 20 | HDR biased | 31.52 | 31.508 | -0.012 |
| 523 | 20 | HDR biased | 31.279 | 31.703 | 0.424 |
| 524 | 20 | HDR biased | 30.848 | 30.925 | 0.0773 |
| 525 | 20 | HDR biased | 30.97 | 31.367 | 0.3969 |
| 531 | 30 | HDR biased | 31.59 | 31.23 | -0.361 |
| 532 | 30 | HDR biased | 31.151 | 31.042 | -0.1089 |
| 533 | 30 | HDR biased | 31.459 | 31.161 | -0.2984 |
| 534 | 30 | HDR biased | 31.421 | 31.583 | 0.1621 |
| 535 | 30 | HDR biased | 31.284 | 31.824 | 0.5396 |
| 551 | 50 | HDR biased | 31.203 | 31.023 | -0.1805 |
| 552 | 50 | HDR biased | 31.414 | 31.462 | 0.0475 |
| 553 | 50 | HDR biased | 31.088 | 31.182 | 0.094 |
| 554 | 50 | HDR biased | 30.939 | 31.09 | 0.1508 |
| 555 | 50 | HDR biased | 31.37 | 31.463 | 0.0924 |

TID vs Post - Pre Exposure Delta

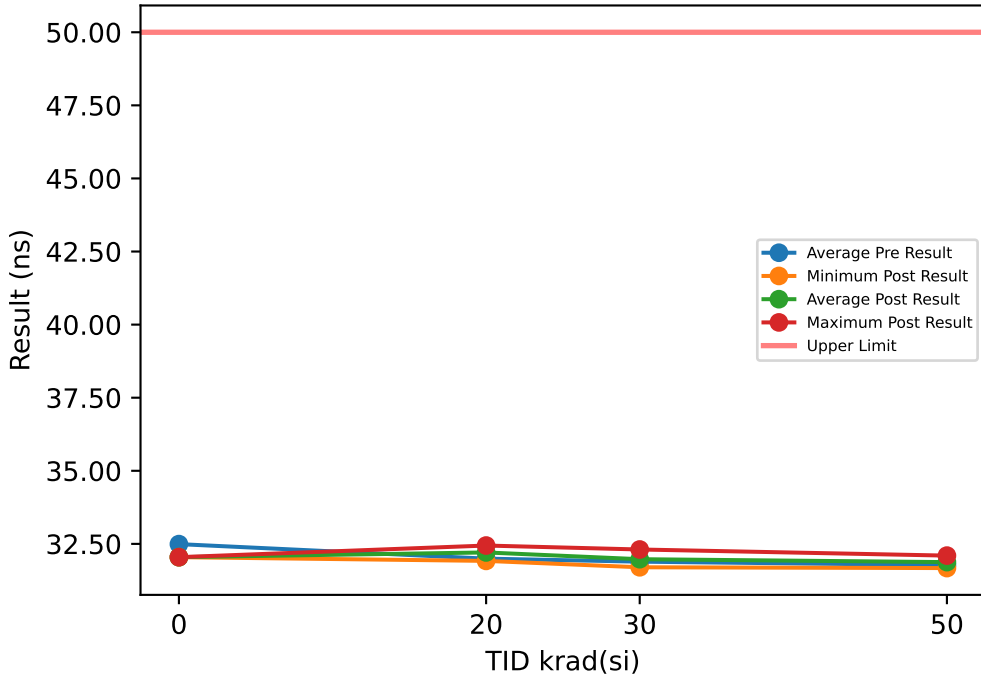


Test Statistics (ns)

| 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 | 31.299 | 31.299 | 31.299 | | 31.895 | 31.895 | 31.895 | | 0.5965 | 0.5965 | 0.5965 | |
| 20 | 30.848 | 31.249 | 31.75 | 0.25361 | 30.925 | 31.472 | 32.138 | 0.31477 | -0.012 | 0.22301 | 0.424 | 0.18105 |
| 30 | 30.871 | 31.282 | 31.59 | 0.20409 | 31.042 | 31.354 | 31.824 | 0.24133 | -0.361 | 0.07153 | 0.5396 | 0.27313 |
| 50 | 30.939 | 31.17 | 31.48 | 0.2004 | 30.783 | 31.169 | 31.463 | 0.21753 | -0.6972 | -0.00118 | 0.4285 | 0.29537 |

Device Test: 112.1 SW_T_HPHL_PWM(_Prop Delay HO Off PWM VIN_14V)

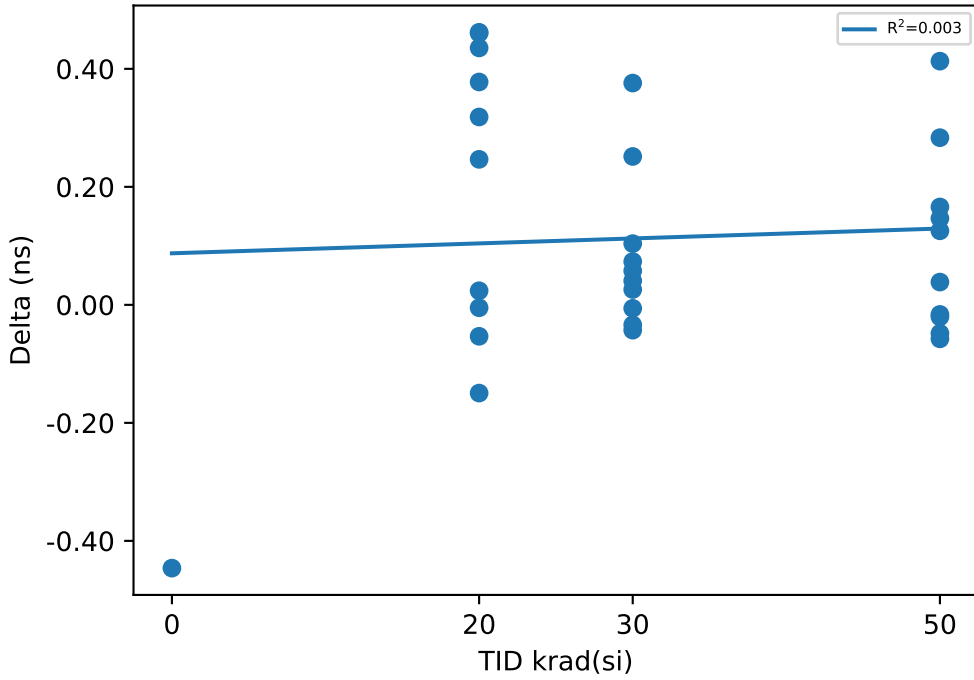
TID vs Result Stats



Test Results (Upper Limit = 50.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 32.492 | 32.046 | -0.4462 |
| 321 | 20 | HDR unbiased | 31.824 | 32.259 | 0.4354 |
| 322 | 20 | HDR unbiased | 31.827 | 32.288 | 0.4619 |
| 323 | 20 | HDR unbiased | 31.639 | 32.017 | 0.3777 |
| 324 | 20 | HDR unbiased | 32.102 | 32.126 | 0.0239 |
| 325 | 20 | HDR unbiased | 32.42 | 32.271 | -0.1495 |
| 331 | 30 | HDR unbiased | 31.961 | 32.019 | 0.0577 |
| 332 | 30 | HDR unbiased | 31.706 | 31.7 | -0.0059 |
| 333 | 30 | HDR unbiased | 32.108 | 32.074 | -0.0339 |
| 334 | 30 | HDR unbiased | 31.626 | 31.73 | 0.1038 |
| 335 | 30 | HDR unbiased | 31.967 | 32.008 | 0.0408 |
| 351 | 50 | HDR unbiased | 31.93 | 31.873 | -0.0576 |
| 352 | 50 | HDR unbiased | 31.608 | 31.891 | 0.2833 |
| 353 | 50 | HDR unbiased | 31.745 | 31.87 | 0.1255 |
| 354 | 50 | HDR unbiased | 31.457 | 31.87 | 0.413 |
| 355 | 50 | HDR unbiased | 31.741 | 31.721 | -0.0203 |
| 521 | 20 | HDR biased | 31.977 | 32.295 | 0.3184 |
| 522 | 20 | HDR biased | 31.923 | 31.918 | -0.0049 |
| 523 | 20 | HDR biased | 32.063 | 32.309 | 0.2466 |
| 524 | 20 | HDR biased | 32.197 | 32.144 | -0.0533 |
| 525 | 20 | HDR biased | 31.983 | 32.444 | 0.4605 |
| 531 | 30 | HDR biased | 31.977 | 32.051 | 0.0734 |
| 532 | 30 | HDR biased | 31.854 | 31.811 | -0.0429 |
| 533 | 30 | HDR biased | 31.882 | 31.908 | 0.026 |
| 534 | 30 | HDR biased | 31.904 | 32.155 | 0.2515 |
| 535 | 30 | HDR biased | 31.933 | 32.308 | 0.3759 |
| 551 | 50 | HDR biased | 31.632 | 31.779 | 0.1466 |
| 552 | 50 | HDR biased | 31.721 | 31.672 | -0.0483 |
| 553 | 50 | HDR biased | 31.758 | 31.924 | 0.1659 |
| 554 | 50 | HDR biased | 32.027 | 32.066 | 0.0386 |
| 555 | 50 | HDR biased | 32.115 | 32.099 | -0.0162 |

TID vs Post - Pre Exposure Delta

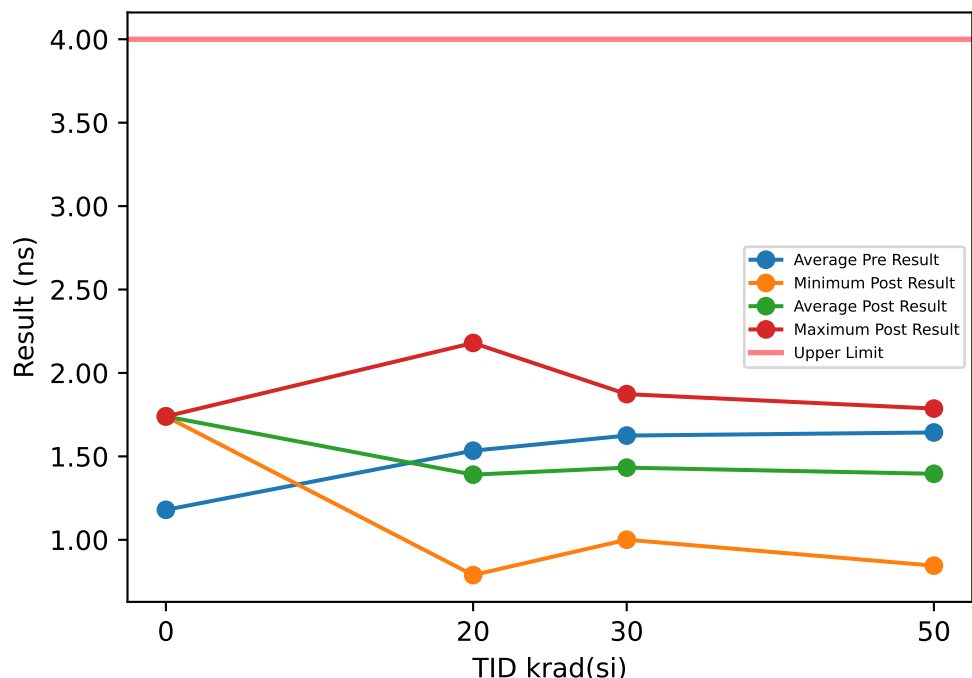


Test Statistics (ns)

| 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 | 32.492 | 32.492 | 32.492 | | 32.046 | 32.046 | 32.046 | | -0.4462 | -0.4462 | -0.4462 | |
| 20 | 31.639 | 31.996 | 32.42 | 0.218 | 31.918 | 32.207 | 32.444 | 0.15557 | -0.1495 | 0.21167 | 0.4619 | 0.23513 |
| 30 | 31.626 | 31.892 | 32.108 | 0.13854 | 31.7 | 31.976 | 32.308 | 0.19124 | -0.0429 | 0.08464 | 0.3759 | 0.1324 |
| 50 | 31.457 | 31.773 | 32.115 | 0.19948 | 31.672 | 31.877 | 32.099 | 0.1347 | -0.0576 | 0.10305 | 0.413 | 0.15535 |

Device Test: 112.11 SW_T_MATCH_OFF(_Delay Match LO Off HO On IIM Interlock VIN_14V)

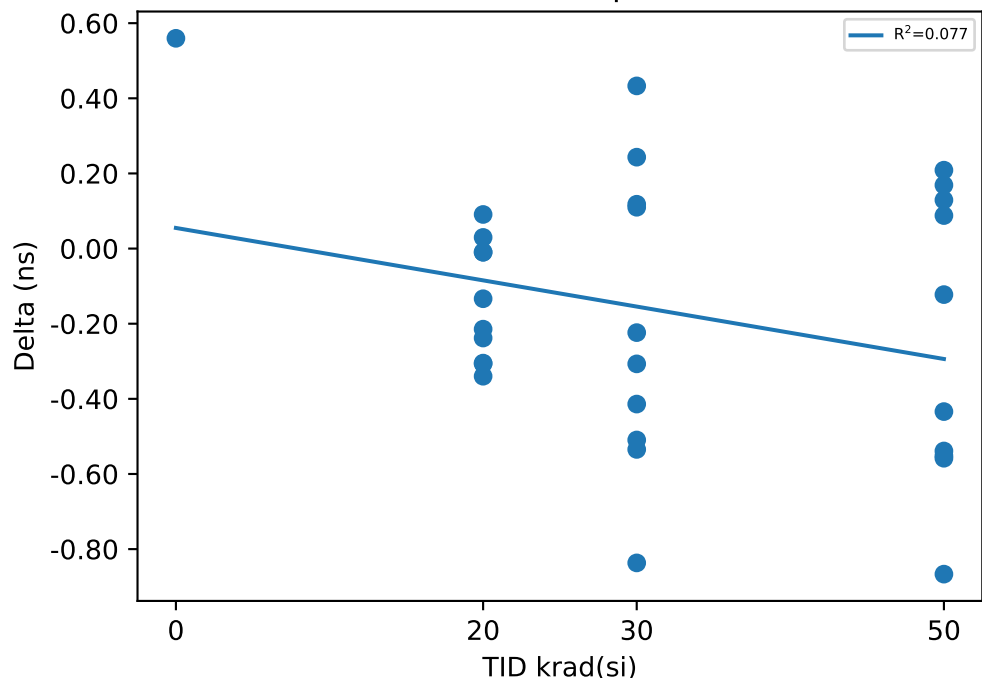
TID vs Result Stats



Test Results (Upper Limit = 4.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.1798 | 1.7395 | 0.5597 |
| 321 | 20 | HDR unbiased | 1.3718 | 1.3622 | -0.0096 |
| 322 | 20 | HDR unbiased | 1.5731 | 1.5634 | -0.0097 |
| 323 | 20 | HDR unbiased | 2.3134 | 2.1799 | -0.1335 |
| 324 | 20 | HDR unbiased | 1.5836 | 1.2438 | -0.3398 |
| 325 | 20 | HDR unbiased | 1.4631 | 1.1582 | -0.3049 |
| 331 | 30 | HDR unbiased | 1.6758 | 1.1663 | -0.5095 |
| 332 | 30 | HDR unbiased | 2.1917 | 1.7778 | -0.4139 |
| 333 | 30 | HDR unbiased | 1.1946 | 1.3126 | 0.118 |
| 334 | 30 | HDR unbiased | 1.5227 | 1.299 | -0.2237 |
| 335 | 30 | HDR unbiased | 1.7406 | 1.4337 | -0.3069 |
| 351 | 50 | HDR unbiased | 1.3142 | 1.4434 | 0.1292 |
| 352 | 50 | HDR unbiased | 1.5778 | 1.7865 | 0.2087 |
| 353 | 50 | HDR unbiased | 1.7117 | 0.8451 | -0.8666 |
| 354 | 50 | HDR unbiased | 1.7561 | 1.198 | -0.5581 |
| 355 | 50 | HDR unbiased | 1.5148 | 1.6027 | 0.0879 |
| 521 | 20 | HDR biased | 1.5471 | 1.6379 | 0.0908 |
| 522 | 20 | HDR biased | 1.7433 | 1.437 | -0.3063 |
| 523 | 20 | HDR biased | 1.6621 | 1.424 | -0.2381 |
| 524 | 20 | HDR biased | 1.0031 | 0.7886 | -0.2145 |
| 525 | 20 | HDR biased | 1.0806 | 1.1103 | 0.0297 |
| 531 | 30 | HDR biased | 2.0165 | 1.1798 | -0.8367 |
| 532 | 30 | HDR biased | 1.4402 | 1.8732 | 0.433 |
| 533 | 30 | HDR biased | 1.5352 | 1.0006 | -0.5346 |
| 534 | 30 | HDR biased | 1.4096 | 1.5196 | 0.11 |
| 535 | 30 | HDR biased | 1.5204 | 1.7637 | 0.2433 |
| 551 | 50 | HDR biased | 1.7989 | 1.2474 | -0.5515 |
| 552 | 50 | HDR biased | 2.0365 | 1.6026 | -0.4339 |
| 553 | 50 | HDR biased | 1.3479 | 1.5168 | 0.1689 |
| 554 | 50 | HDR biased | 1.6173 | 1.0785 | -0.5388 |
| 555 | 50 | HDR biased | 1.7581 | 1.6356 | -0.1225 |

TID vs Post - Pre Exposure Delta

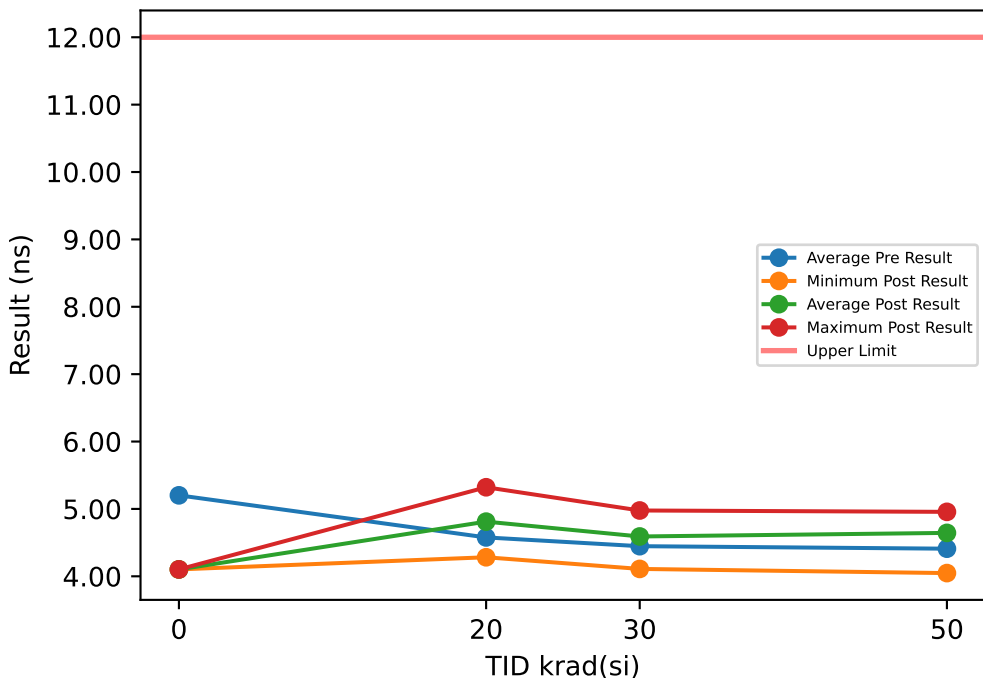


Test Statistics (ns)

| 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 | 1.1798 | 1.1798 | 1.1798 | | 1.7395 | 1.7395 | 1.7395 | | 0.5597 | 0.5597 | 0.5597 | |
| 20 | 1.0031 | 1.5341 | 2.3134 | 0.36372 | 0.7886 | 1.3905 | 2.1799 | 0.37038 | -0.3398 | -0.14359 | 0.0908 | 0.15843 |
| 30 | 1.1946 | 1.6247 | 2.1917 | 0.29545 | 1.0006 | 1.4326 | 1.8732 | 0.29518 | -0.8367 | -0.1921 | 0.433 | 0.40341 |
| 50 | 1.3142 | 1.6433 | 2.0365 | 0.21768 | 0.8451 | 1.3957 | 1.7865 | 0.29396 | -0.8666 | -0.24767 | 0.2087 | 0.38634 |

Device Test: 112.12 SW_T_MATCH_ON(_Delay Match LO On HO Off IIM Interlock Disable VIN_14V)

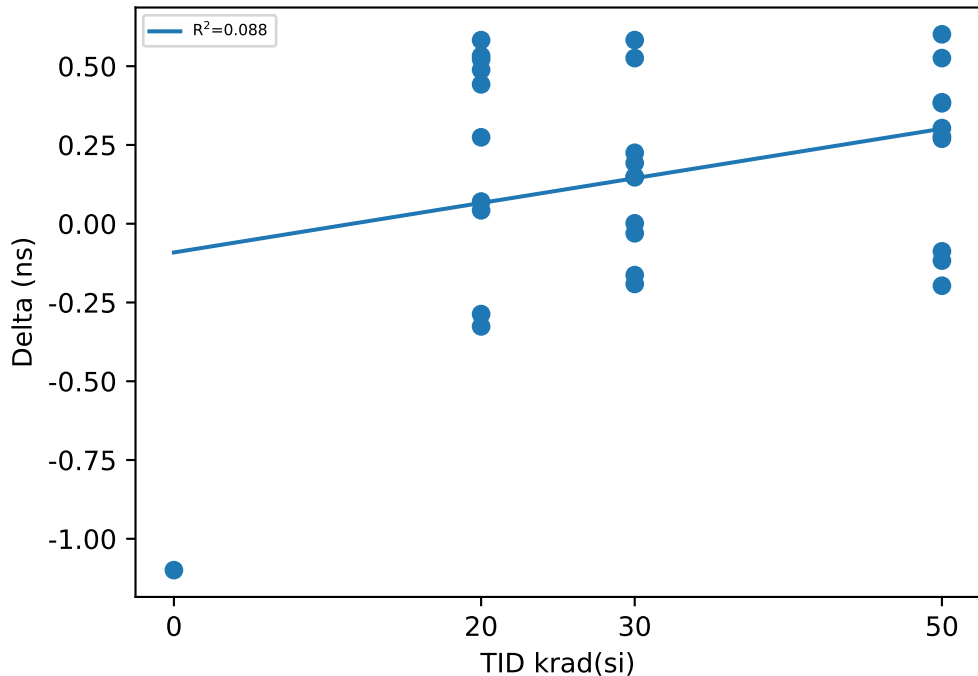
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.2017 | 4.1022 | -1.0995 |
| 321 | 20 | HDR unbiased | 4.4673 | 4.9891 | 0.5218 |
| 322 | 20 | HDR unbiased | 4.3582 | 4.8465 | 0.4883 |
| 323 | 20 | HDR unbiased | 4.071 | 4.3453 | 0.2743 |
| 324 | 20 | HDR unbiased | 4.6388 | 4.7092 | 0.0704 |
| 325 | 20 | HDR unbiased | 5.0978 | 4.7719 | -0.3259 |
| 331 | 30 | HDR unbiased | 4.6858 | 4.5227 | -0.1631 |
| 332 | 30 | HDR unbiased | 4.3007 | 4.1095 | -0.1912 |
| 333 | 30 | HDR unbiased | 4.7517 | 4.9768 | 0.2251 |
| 334 | 30 | HDR unbiased | 4.2779 | 4.4252 | 0.1473 |
| 335 | 30 | HDR unbiased | 4.4639 | 4.6134 | 0.1495 |
| 351 | 50 | HDR unbiased | 4.7267 | 4.5299 | -0.1968 |
| 352 | 50 | HDR unbiased | 4.3553 | 4.9565 | 0.6012 |
| 353 | 50 | HDR unbiased | 4.3797 | 4.762 | 0.3823 |
| 354 | 50 | HDR unbiased | 4.3178 | 4.5875 | 0.2697 |
| 355 | 50 | HDR unbiased | 4.4044 | 4.7079 | 0.3035 |
| 521 | 20 | HDR biased | 4.5924 | 5.125 | 0.5326 |
| 522 | 20 | HDR biased | 4.2399 | 4.2825 | 0.0426 |
| 523 | 20 | HDR biased | 4.4636 | 4.9059 | 0.4423 |
| 524 | 20 | HDR biased | 5.1022 | 4.8154 | -0.2868 |
| 525 | 20 | HDR biased | 4.7388 | 5.3215 | 0.5827 |
| 531 | 30 | HDR biased | 4.5212 | 4.5225 | 0.0013 |
| 532 | 30 | HDR biased | 4.4751 | 4.4447 | -0.0304 |
| 533 | 30 | HDR biased | 4.2175 | 4.4103 | 0.1928 |
| 534 | 30 | HDR biased | 4.4374 | 4.9631 | 0.5257 |
| 535 | 30 | HDR biased | 4.3392 | 4.9221 | 0.5829 |
| 551 | 50 | HDR biased | 3.9401 | 4.3257 | 0.3856 |
| 552 | 50 | HDR biased | 4.1648 | 4.0477 | -0.1171 |
| 553 | 50 | HDR biased | 4.3067 | 4.8324 | 0.5257 |
| 554 | 50 | HDR biased | 4.8608 | 4.7732 | -0.0876 |
| 555 | 50 | HDR biased | 4.642 | 4.9193 | 0.2773 |

TID vs Post - Pre Exposure Delta

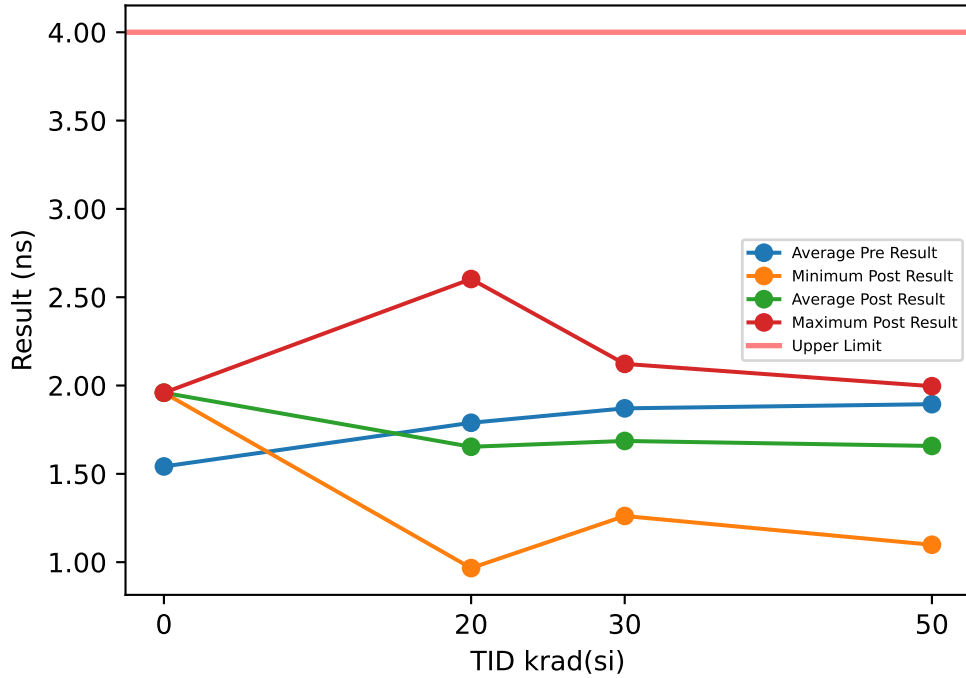


Test Statistics (ns)

| 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 | 5.2017 | 5.2017 | 5.2017 | | 4.1022 | 4.1022 | 4.1022 | | -1.0995 | -1.0995 | -1.0995 | |
| 20 | 4.071 | 4.577 | 5.1022 | 0.33661 | 4.2825 | 4.8112 | 5.3215 | 0.31786 | -0.3259 | 0.23423 | 0.5827 | 0.34179 |
| 30 | 4.2175 | 4.447 | 4.7517 | 0.17347 | 4.1095 | 4.591 | 4.9768 | 0.28288 | -0.1912 | 0.14399 | 0.5829 | 0.25922 |
| 50 | 3.9401 | 4.4098 | 4.8608 | 0.27109 | 4.0477 | 4.6442 | 4.9565 | 0.2822 | -0.1968 | 0.23438 | 0.6012 | 0.27592 |

Device Test: 112.13 SW_T_MATCH_OFF(_Delay Match LO Off HO On IIM Interlock Disable VIN_14V)

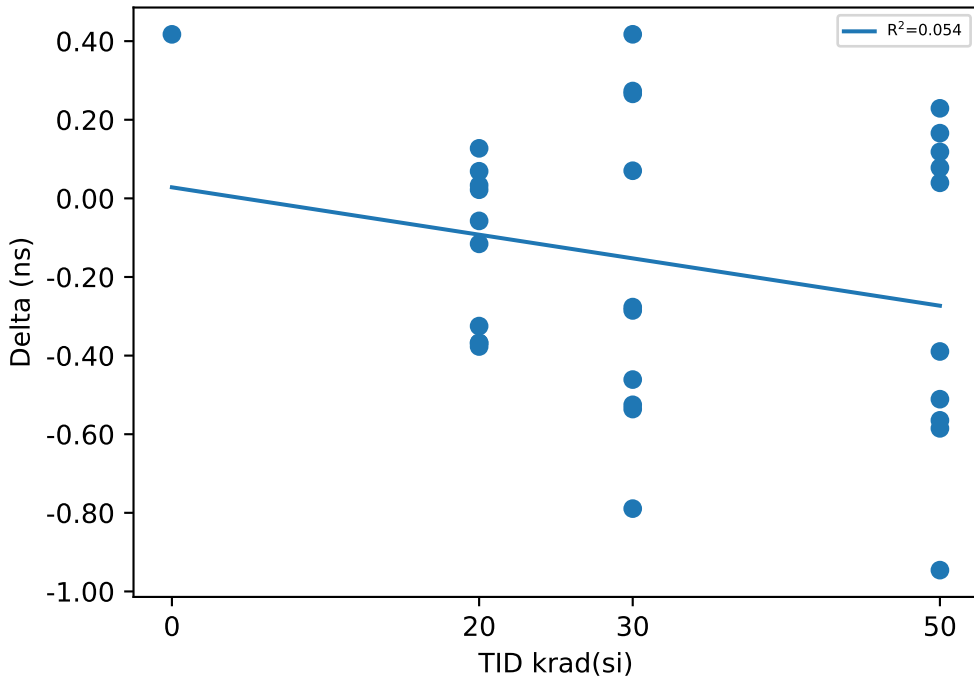
TID vs Result Stats



Test Results (Upper Limit = 4.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.5419 | 1.9592 | 0.4173 |
| 321 | 20 | HDR unbiased | 1.6476 | 1.7166 | 0.069 |
| 322 | 20 | HDR unbiased | 1.839 | 1.861 | 0.022 |
| 323 | 20 | HDR unbiased | 2.4757 | 2.603 | 0.1273 |
| 324 | 20 | HDR unbiased | 1.8454 | 1.5205 | -0.3249 |
| 325 | 20 | HDR unbiased | 1.7678 | 1.4002 | -0.3676 |
| 331 | 30 | HDR unbiased | 1.8268 | 1.3658 | -0.461 |
| 332 | 30 | HDR unbiased | 2.5425 | 2.0173 | -0.5252 |
| 333 | 30 | HDR unbiased | 1.4424 | 1.5127 | 0.0703 |
| 334 | 30 | HDR unbiased | 1.8176 | 1.5325 | -0.2851 |
| 335 | 30 | HDR unbiased | 1.9691 | 1.6925 | -0.2766 |
| 351 | 50 | HDR unbiased | 1.5864 | 1.6644 | 0.078 |
| 352 | 50 | HDR unbiased | 1.8304 | 1.9963 | 0.1659 |
| 353 | 50 | HDR unbiased | 2.0443 | 1.0985 | -0.9458 |
| 354 | 50 | HDR unbiased | 1.8694 | 1.4799 | -0.3895 |
| 355 | 50 | HDR unbiased | 1.7253 | 1.8436 | 0.1183 |
| 521 | 20 | HDR biased | 1.801 | 1.8343 | 0.0333 |
| 522 | 20 | HDR biased | 2.015 | 1.647 | -0.368 |
| 523 | 20 | HDR biased | 1.7818 | 1.7245 | -0.0573 |
| 524 | 20 | HDR biased | 1.3434 | 0.9665 | -0.3769 |
| 525 | 20 | HDR biased | 1.375 | 1.2593 | -0.1157 |
| 531 | 30 | HDR biased | 2.1774 | 1.3881 | -0.7893 |
| 532 | 30 | HDR biased | 1.7052 | 2.1226 | 0.4174 |
| 533 | 30 | HDR biased | 1.7975 | 1.2615 | -0.536 |
| 534 | 30 | HDR biased | 1.6591 | 1.925 | 0.2659 |
| 535 | 30 | HDR biased | 1.7711 | 2.0442 | 0.2731 |
| 551 | 50 | HDR biased | 2.0676 | 1.5029 | -0.5647 |
| 552 | 50 | HDR biased | 2.362 | 1.8511 | -0.5109 |
| 553 | 50 | HDR biased | 1.6773 | 1.9064 | 0.2291 |
| 554 | 50 | HDR biased | 1.9311 | 1.346 | -0.5851 |
| 555 | 50 | HDR biased | 1.8503 | 1.8899 | 0.0396 |

TID vs Post - Pre Exposure Delta

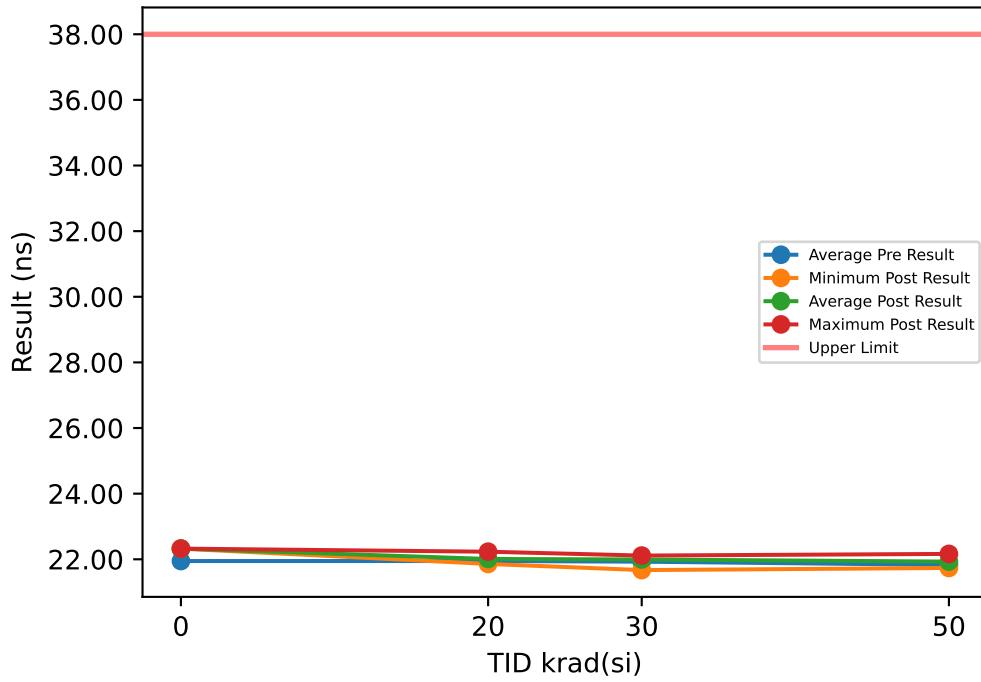


Test Statistics (ns)

| 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 | 1.5419 | 1.5419 | 1.5419 | | 1.9592 | 1.9592 | 1.9592 | | 0.4173 | 0.4173 | 0.4173 | |
| 20 | 1.3434 | 1.7892 | 2.4757 | 0.31953 | 0.9665 | 1.6533 | 2.603 | 0.43405 | -0.3769 | -0.13588 | 0.1273 | 0.20351 |
| 30 | 1.4424 | 1.8709 | 2.5425 | 0.30381 | 1.2615 | 1.6862 | 2.1226 | 0.31814 | -0.7893 | -0.18465 | 0.4174 | 0.41365 |
| 50 | 1.5864 | 1.8944 | 2.362 | 0.22354 | 1.0985 | 1.6579 | 1.9963 | 0.29209 | -0.9458 | -0.23651 | 0.2291 | 0.40971 |

Device Test: 112.2 SW_T_LPLH_IIM(Prop Delay LO On IIM Interlock VIN_14V)

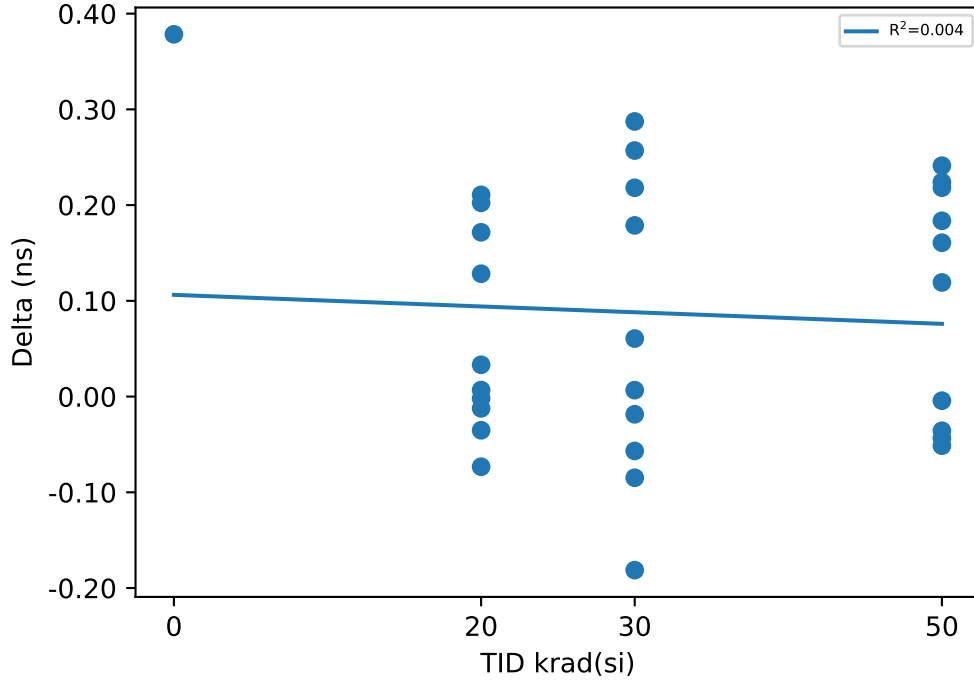
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 21.947 | 22.325 | 0.3784 |
| 321 | 20 | HDR unbiased | 22.035 | 22.023 | -0.0123 |
| 322 | 20 | HDR unbiased | 21.883 | 21.916 | 0.0332 |
| 323 | 20 | HDR unbiased | 21.982 | 22.154 | 0.1716 |
| 324 | 20 | HDR unbiased | 21.894 | 21.858 | -0.0352 |
| 325 | 20 | HDR unbiased | 21.7 | 21.902 | 0.2024 |
| 331 | 30 | HDR unbiased | 21.826 | 22.113 | 0.2874 |
| 332 | 30 | HDR unbiased | 21.773 | 21.992 | 0.2181 |
| 333 | 30 | HDR unbiased | 21.823 | 22.081 | 0.257 |
| 334 | 30 | HDR unbiased | 21.873 | 21.933 | 0.0606 |
| 335 | 30 | HDR unbiased | 21.937 | 21.944 | 0.0067 |
| 351 | 50 | HDR unbiased | 21.65 | 21.834 | 0.1836 |
| 352 | 50 | HDR unbiased | 21.771 | 21.736 | -0.0357 |
| 353 | 50 | HDR unbiased | 21.848 | 21.797 | -0.0513 |
| 354 | 50 | HDR unbiased | 21.567 | 21.808 | 0.2412 |
| 355 | 50 | HDR unbiased | 21.763 | 21.882 | 0.1192 |
| 521 | 20 | HDR biased | 21.988 | 21.986 | -0.002 |
| 522 | 20 | HDR biased | 22.224 | 22.231 | 0.0068 |
| 523 | 20 | HDR biased | 22.088 | 22.216 | 0.1283 |
| 524 | 20 | HDR biased | 21.712 | 21.922 | 0.2107 |
| 525 | 20 | HDR biased | 21.965 | 21.892 | -0.0733 |
| 531 | 30 | HDR biased | 21.925 | 22.104 | 0.1788 |
| 532 | 30 | HDR biased | 21.852 | 21.671 | -0.1813 |
| 533 | 30 | HDR biased | 22.14 | 22.084 | -0.0568 |
| 534 | 30 | HDR biased | 22.011 | 21.926 | -0.0848 |
| 535 | 30 | HDR biased | 22.114 | 22.095 | -0.0185 |
| 551 | 50 | HDR biased | 22.174 | 22.131 | -0.0434 |
| 552 | 50 | HDR biased | 21.94 | 22.164 | 0.224 |
| 553 | 50 | HDR biased | 22.002 | 21.998 | -0.0043 |
| 554 | 50 | HDR biased | 21.766 | 21.927 | 0.1607 |
| 555 | 50 | HDR biased | 21.802 | 22.021 | 0.2182 |

TID vs Post - Pre Exposure Delta

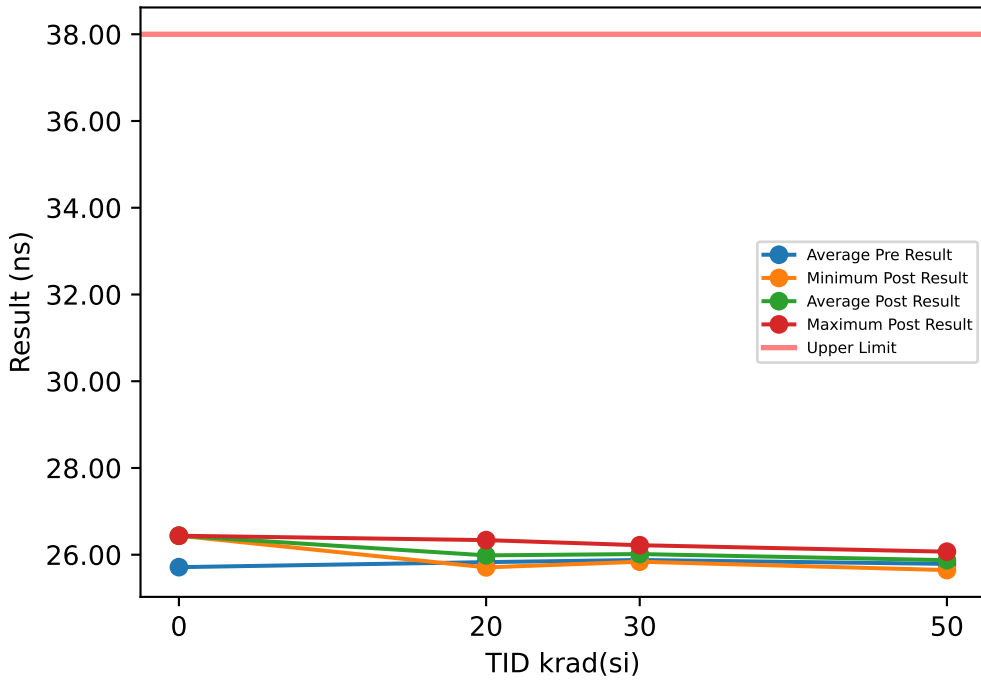


Test Statistics (ns)

| 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 | 21.947 | 21.947 | 21.947 | | 22.325 | 22.325 | 22.325 | | 0.3784 | 0.3784 | 0.3784 | |
| 20 | 21.7 | 21.947 | 22.224 | 0.16029 | 21.858 | 22.01 | 22.231 | 0.14053 | -0.0733 | 0.06302 | 0.2107 | 0.10513 |
| 30 | 21.773 | 21.928 | 22.14 | 0.12497 | 21.671 | 21.994 | 22.113 | 0.13637 | -0.1813 | 0.06672 | 0.2874 | 0.16021 |
| 50 | 21.567 | 21.828 | 22.174 | 0.17484 | 21.736 | 21.93 | 22.164 | 0.14524 | -0.0513 | 0.10122 | 0.2412 | 0.12159 |

Device Test: 112.3 SW_T_LPHL_IIM(Prop Delay LO Off IIM Interlock VIN_14V)

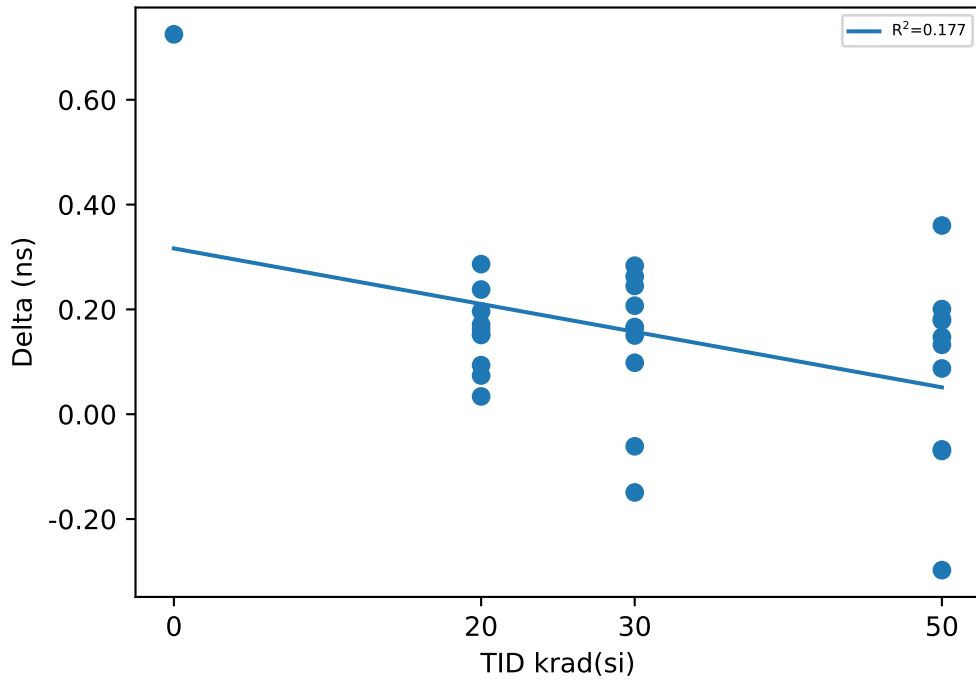
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 25.713 | 26.438 | 0.7249 |
| 321 | 20 | HDR unbiased | 25.881 | 26.033 | 0.1526 |
| 322 | 20 | HDR unbiased | 25.663 | 25.825 | 0.1622 |
| 323 | 20 | HDR unbiased | 26.166 | 26.337 | 0.171 |
| 324 | 20 | HDR unbiased | 25.835 | 25.909 | 0.0738 |
| 325 | 20 | HDR unbiased | 25.693 | 25.931 | 0.2379 |
| 331 | 30 | HDR unbiased | 25.925 | 26.076 | 0.1502 |
| 332 | 30 | HDR unbiased | 25.955 | 26.121 | 0.1664 |
| 333 | 30 | HDR unbiased | 25.674 | 25.957 | 0.2834 |
| 334 | 30 | HDR unbiased | 25.814 | 26.059 | 0.2448 |
| 335 | 30 | HDR unbiased | 25.93 | 26.028 | 0.0982 |
| 351 | 50 | HDR unbiased | 25.627 | 25.987 | 0.3601 |
| 352 | 50 | HDR unbiased | 25.772 | 25.972 | 0.2006 |
| 353 | 50 | HDR unbiased | 25.943 | 25.646 | -0.2975 |
| 354 | 50 | HDR unbiased | 25.602 | 25.781 | 0.1788 |
| 355 | 50 | HDR unbiased | 25.729 | 25.662 | -0.0671 |
| 521 | 20 | HDR biased | 25.856 | 26.007 | 0.1512 |
| 522 | 20 | HDR biased | 26.113 | 26.147 | 0.0339 |
| 523 | 20 | HDR biased | 26.01 | 26.104 | 0.0936 |
| 524 | 20 | HDR biased | 25.512 | 25.708 | 0.1963 |
| 525 | 20 | HDR biased | 25.565 | 25.852 | 0.2864 |
| 531 | 30 | HDR biased | 26.067 | 26.006 | -0.0612 |
| 532 | 30 | HDR biased | 25.673 | 25.838 | 0.165 |
| 533 | 30 | HDR biased | 26.027 | 25.878 | -0.1493 |
| 534 | 30 | HDR biased | 25.767 | 25.974 | 0.2071 |
| 535 | 30 | HDR biased | 25.957 | 26.219 | 0.2628 |
| 551 | 50 | HDR biased | 25.939 | 25.869 | -0.0701 |
| 552 | 50 | HDR biased | 25.889 | 26.07 | 0.1817 |
| 553 | 50 | HDR biased | 25.729 | 25.876 | 0.1472 |
| 554 | 50 | HDR biased | 25.734 | 25.866 | 0.1324 |
| 555 | 50 | HDR biased | 25.927 | 26.015 | 0.0873 |

TID vs Post - Pre Exposure Delta

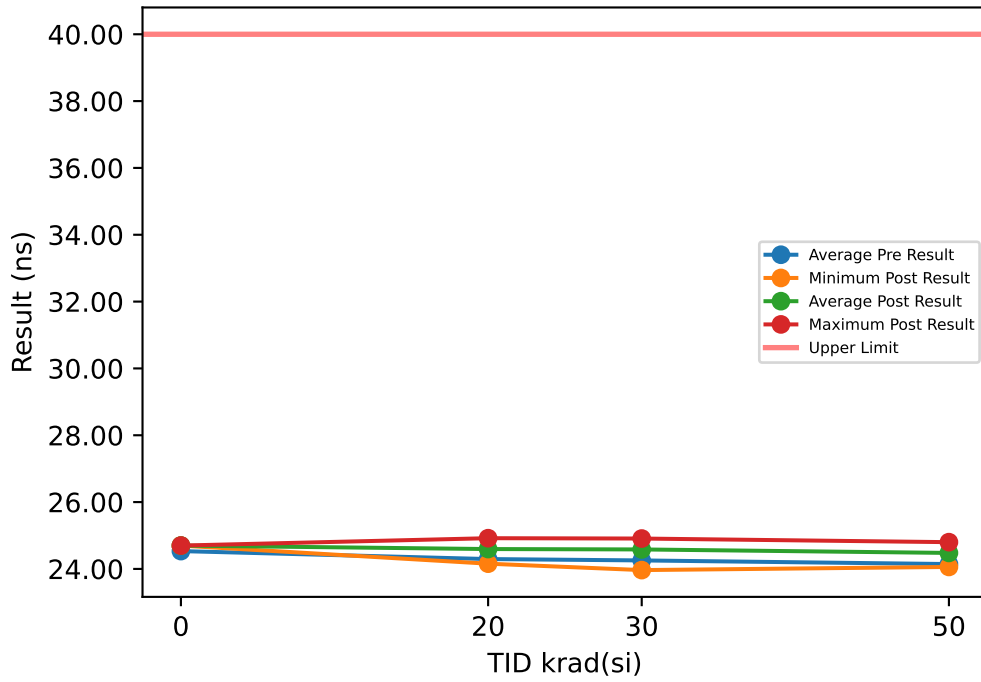


Test Statistics (ns)

| 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 | 25.713 | 25.713 | 25.713 | | 26.438 | 26.438 | 26.438 | | 0.7249 | 0.7249 | 0.7249 | |
| 20 | 25.512 | 25.829 | 26.166 | 0.22283 | 25.708 | 25.985 | 26.337 | 0.18131 | 0.0339 | 0.15589 | 0.2864 | 0.075419 |
| 30 | 25.673 | 25.879 | 26.067 | 0.13945 | 25.838 | 26.016 | 26.219 | 0.1125 | -0.1493 | 0.13674 | 0.2834 | 0.14078 |
| 50 | 25.602 | 25.789 | 25.943 | 0.12799 | 25.646 | 25.874 | 26.07 | 0.14396 | -0.2975 | 0.08534 | 0.3601 | 0.18463 |

Device Test: 112.4 SW_T_HPLH_IIM(Prop Delay HO On IIM Interlock VIN_14V)

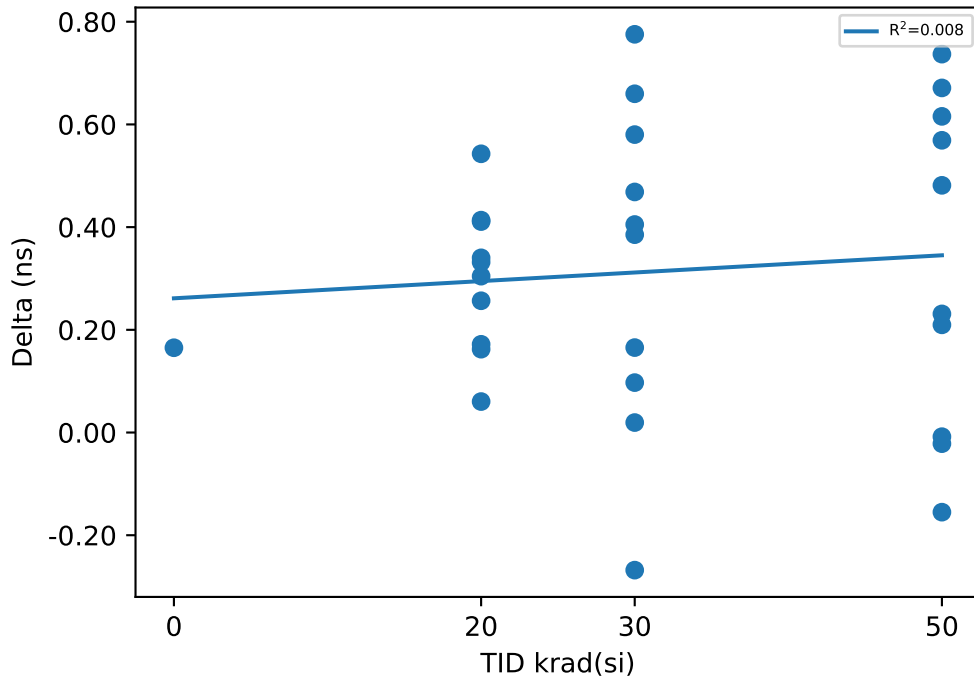
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 24.534 | 24.699 | 0.1651 |
| 321 | 20 | HDR unbiased | 24.509 | 24.671 | 0.1623 |
| 322 | 20 | HDR unbiased | 24.09 | 24.261 | 0.1718 |
| 323 | 20 | HDR unbiased | 23.852 | 24.157 | 0.3045 |
| 324 | 20 | HDR unbiased | 24.251 | 24.665 | 0.4136 |
| 325 | 20 | HDR unbiased | 24.23 | 24.773 | 0.5428 |
| 331 | 30 | HDR unbiased | 24.25 | 24.909 | 0.6597 |
| 332 | 30 | HDR unbiased | 23.763 | 24.343 | 0.5802 |
| 333 | 30 | HDR unbiased | 24.479 | 24.644 | 0.1654 |
| 334 | 30 | HDR unbiased | 24.291 | 24.76 | 0.4685 |
| 335 | 30 | HDR unbiased | 24.189 | 24.595 | 0.4051 |
| 351 | 50 | HDR unbiased | 24.312 | 24.544 | 0.231 |
| 352 | 50 | HDR unbiased | 24.194 | 24.186 | -0.0081 |
| 353 | 50 | HDR unbiased | 24.232 | 24.801 | 0.5691 |
| 354 | 50 | HDR unbiased | 23.846 | 24.583 | 0.7369 |
| 355 | 50 | HDR unbiased | 24.214 | 24.059 | -0.1551 |
| 521 | 20 | HDR biased | 24.309 | 24.369 | 0.0603 |
| 522 | 20 | HDR biased | 24.37 | 24.71 | 0.3402 |
| 523 | 20 | HDR biased | 24.348 | 24.68 | 0.3318 |
| 524 | 20 | HDR biased | 24.509 | 24.919 | 0.4108 |
| 525 | 20 | HDR biased | 24.485 | 24.741 | 0.2566 |
| 531 | 30 | HDR biased | 24.05 | 24.826 | 0.7755 |
| 532 | 30 | HDR biased | 24.233 | 23.965 | -0.268 |
| 533 | 30 | HDR biased | 24.492 | 24.877 | 0.3853 |
| 534 | 30 | HDR biased | 24.358 | 24.455 | 0.0972 |
| 535 | 30 | HDR biased | 24.436 | 24.456 | 0.0194 |
| 551 | 50 | HDR biased | 24.14 | 24.622 | 0.4814 |
| 552 | 50 | HDR biased | 23.852 | 24.468 | 0.6157 |
| 553 | 50 | HDR biased | 24.381 | 24.36 | -0.0217 |
| 554 | 50 | HDR biased | 24.116 | 24.788 | 0.6711 |
| 555 | 50 | HDR biased | 24.169 | 24.379 | 0.2097 |

TID vs Post - Pre Exposure Delta

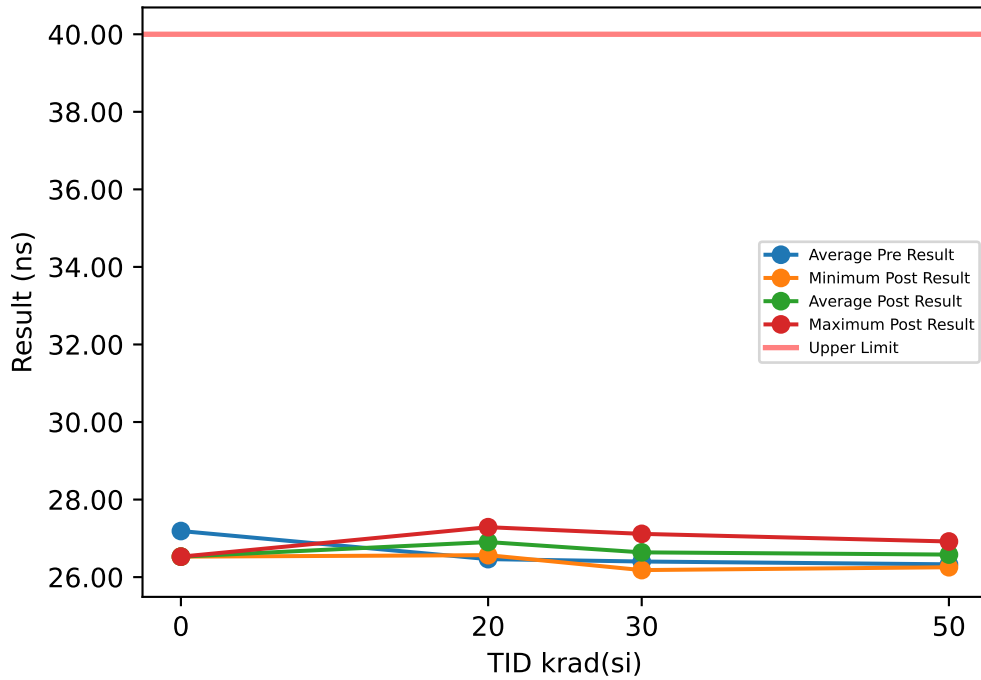


Test Statistics (ns)

| 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 | 24.534 | 24.534 | 24.534 | | 24.699 | 24.699 | 24.699 | | 0.1651 | 0.1651 | 0.1651 | |
| 20 | 23.852 | 24.295 | 24.509 | 0.20551 | 24.157 | 24.595 | 24.919 | 0.2457 | 0.0603 | 0.29947 | 0.5428 | 0.14201 |
| 30 | 23.763 | 24.254 | 24.492 | 0.221 | 23.965 | 24.583 | 24.909 | 0.29043 | -0.268 | 0.32883 | 0.7755 | 0.32197 |
| 50 | 23.846 | 24.146 | 24.381 | 0.17493 | 24.059 | 24.479 | 24.801 | 0.24054 | -0.1551 | 0.333 | 0.7369 | 0.32337 |

Device Test: 112.5 SW_T_HPHL_IIM(Prop Delay HO Off IIM Interlock VIN_14V)

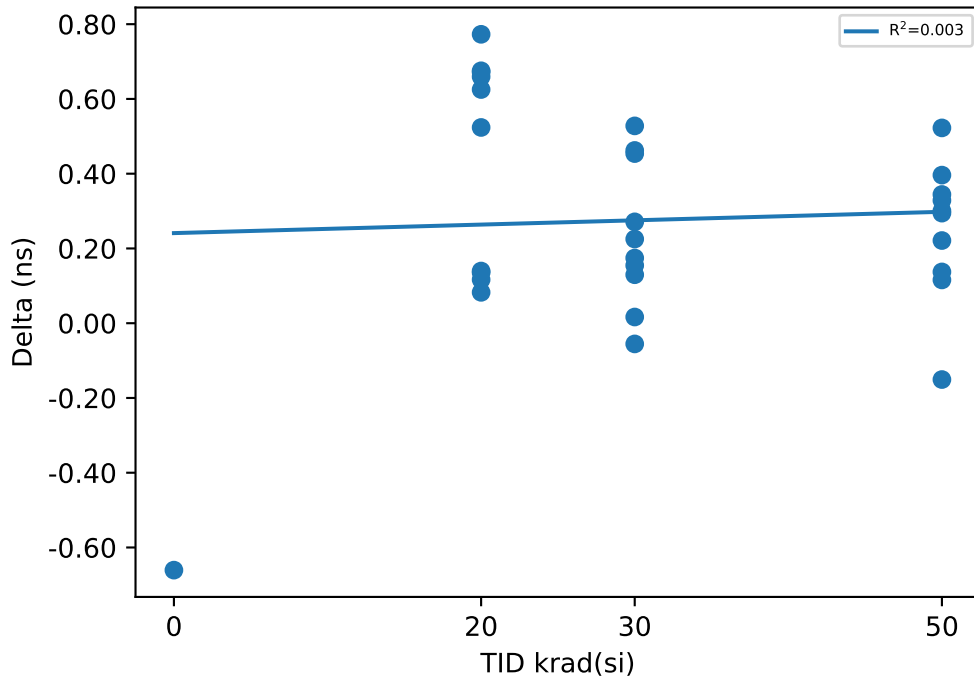
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 27.189 | 26.528 | -0.6606 |
| 321 | 20 | HDR unbiased | 26.371 | 27.144 | 0.7729 |
| 322 | 20 | HDR unbiased | 26.29 | 26.916 | 0.6252 |
| 323 | 20 | HDR unbiased | 26.186 | 26.709 | 0.5237 |
| 324 | 20 | HDR unbiased | 26.498 | 26.614 | 0.1166 |
| 325 | 20 | HDR unbiased | 26.568 | 26.703 | 0.1354 |
| 331 | 30 | HDR unbiased | 26.525 | 26.68 | 0.1546 |
| 332 | 30 | HDR unbiased | 26.068 | 26.198 | 0.1297 |
| 333 | 30 | HDR unbiased | 26.652 | 27.105 | 0.4538 |
| 334 | 30 | HDR unbiased | 26.22 | 26.394 | 0.1744 |
| 335 | 30 | HDR unbiased | 26.538 | 26.555 | 0.0166 |
| 351 | 50 | HDR unbiased | 26.593 | 26.442 | -0.1507 |
| 352 | 50 | HDR unbiased | 26.173 | 26.696 | 0.5225 |
| 353 | 50 | HDR unbiased | 26.278 | 26.606 | 0.3285 |
| 354 | 50 | HDR unbiased | 26.044 | 26.388 | 0.3444 |
| 355 | 50 | HDR unbiased | 26.249 | 26.55 | 0.3006 |
| 521 | 20 | HDR biased | 26.544 | 27.203 | 0.6595 |
| 522 | 20 | HDR biased | 26.427 | 26.566 | 0.1396 |
| 523 | 20 | HDR biased | 26.475 | 27.15 | 0.6753 |
| 524 | 20 | HDR biased | 26.668 | 26.751 | 0.0826 |
| 525 | 20 | HDR biased | 26.616 | 27.288 | 0.6719 |
| 531 | 30 | HDR biased | 26.403 | 26.674 | 0.2712 |
| 532 | 30 | HDR biased | 26.237 | 26.181 | -0.0554 |
| 533 | 30 | HDR biased | 26.304 | 26.529 | 0.2252 |
| 534 | 30 | HDR biased | 26.492 | 26.954 | 0.4622 |
| 535 | 30 | HDR biased | 26.588 | 27.116 | 0.5279 |
| 551 | 50 | HDR biased | 26.226 | 26.447 | 0.2212 |
| 552 | 50 | HDR biased | 26.139 | 26.255 | 0.1158 |
| 553 | 50 | HDR biased | 26.405 | 26.801 | 0.3962 |
| 554 | 50 | HDR biased | 26.573 | 26.71 | 0.1372 |
| 555 | 50 | HDR biased | 26.625 | 26.919 | 0.2945 |

TID vs Post - Pre Exposure Delta

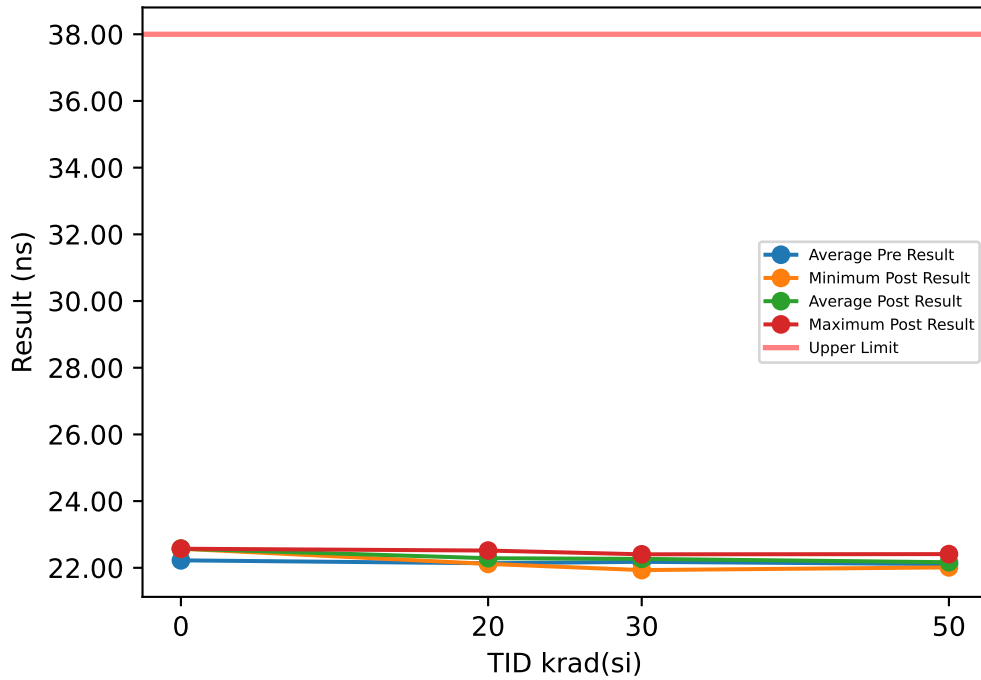


Test Statistics (ns)

| 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 | 27.189 | 27.189 | 27.189 | | 26.528 | 26.528 | 26.528 | | -0.6606 | -0.6606 | -0.6606 | |
| 20 | 26.186 | 26.464 | 26.668 | 0.14931 | 26.566 | 26.904 | 27.288 | 0.26968 | 0.0826 | 0.44027 | 0.7729 | 0.28378 |
| 30 | 26.068 | 26.403 | 26.652 | 0.18855 | 26.181 | 26.639 | 27.116 | 0.33826 | -0.0554 | 0.23602 | 0.5279 | 0.19435 |
| 50 | 26.044 | 26.33 | 26.625 | 0.20637 | 26.255 | 26.581 | 26.919 | 0.20411 | -0.1507 | 0.25102 | 0.5225 | 0.1848 |

Device Test: 112.6 SW_T_LPLH_IIM(Prop Delay LO On IIM Interlock Disable VIN_14V)

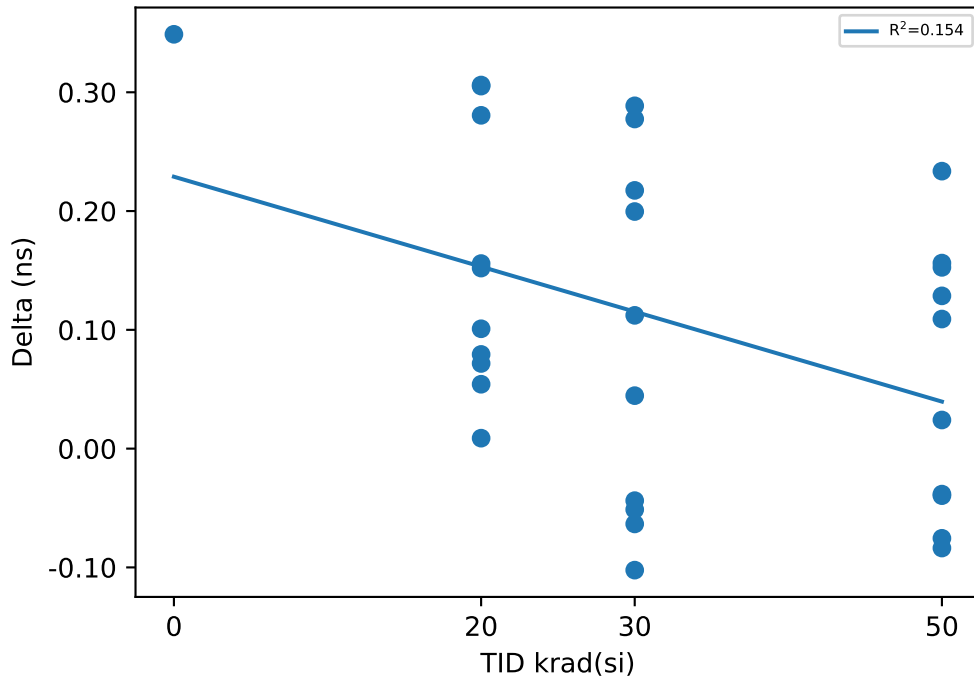
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 22.224 | 22.573 | 0.3488 |
| 321 | 20 | HDR unbiased | 22.166 | 22.322 | 0.1558 |
| 322 | 20 | HDR unbiased | 22.133 | 22.234 | 0.1009 |
| 323 | 20 | HDR unbiased | 22.212 | 22.517 | 0.3052 |
| 324 | 20 | HDR unbiased | 22.046 | 22.117 | 0.0717 |
| 325 | 20 | HDR unbiased | 21.843 | 22.149 | 0.3061 |
| 331 | 30 | HDR unbiased | 22.082 | 22.37 | 0.2886 |
| 332 | 30 | HDR unbiased | 21.999 | 22.277 | 0.2775 |
| 333 | 30 | HDR unbiased | 22.123 | 22.34 | 0.2174 |
| 334 | 30 | HDR unbiased | 22.154 | 22.199 | 0.0446 |
| 335 | 30 | HDR unbiased | 22.247 | 22.196 | -0.0513 |
| 351 | 50 | HDR unbiased | 21.959 | 22.087 | 0.1286 |
| 352 | 50 | HDR unbiased | 21.989 | 22.013 | 0.0241 |
| 353 | 50 | HDR unbiased | 22.134 | 22.05 | -0.0837 |
| 354 | 50 | HDR unbiased | 21.897 | 22.049 | 0.1526 |
| 355 | 50 | HDR unbiased | 22.061 | 22.022 | -0.0383 |
| 521 | 20 | HDR biased | 22.259 | 22.313 | 0.0542 |
| 522 | 20 | HDR biased | 22.448 | 22.457 | 0.0088 |
| 523 | 20 | HDR biased | 22.307 | 22.459 | 0.152 |
| 524 | 20 | HDR biased | 21.864 | 22.145 | 0.2806 |
| 525 | 20 | HDR biased | 22.081 | 22.16 | 0.0793 |
| 531 | 30 | HDR biased | 22.166 | 22.365 | 0.1996 |
| 532 | 30 | HDR biased | 22.034 | 21.932 | -0.1023 |
| 533 | 30 | HDR biased | 22.404 | 22.341 | -0.0634 |
| 534 | 30 | HDR biased | 22.14 | 22.253 | 0.1122 |
| 535 | 30 | HDR biased | 22.448 | 22.405 | -0.0438 |
| 551 | 50 | HDR biased | 22.446 | 22.407 | -0.0396 |
| 552 | 50 | HDR biased | 22.254 | 22.411 | 0.1562 |
| 553 | 50 | HDR biased | 22.327 | 22.252 | -0.0755 |
| 554 | 50 | HDR biased | 21.951 | 22.184 | 0.2336 |
| 555 | 50 | HDR biased | 22.092 | 22.201 | 0.1091 |

TID vs Post - Pre Exposure Delta

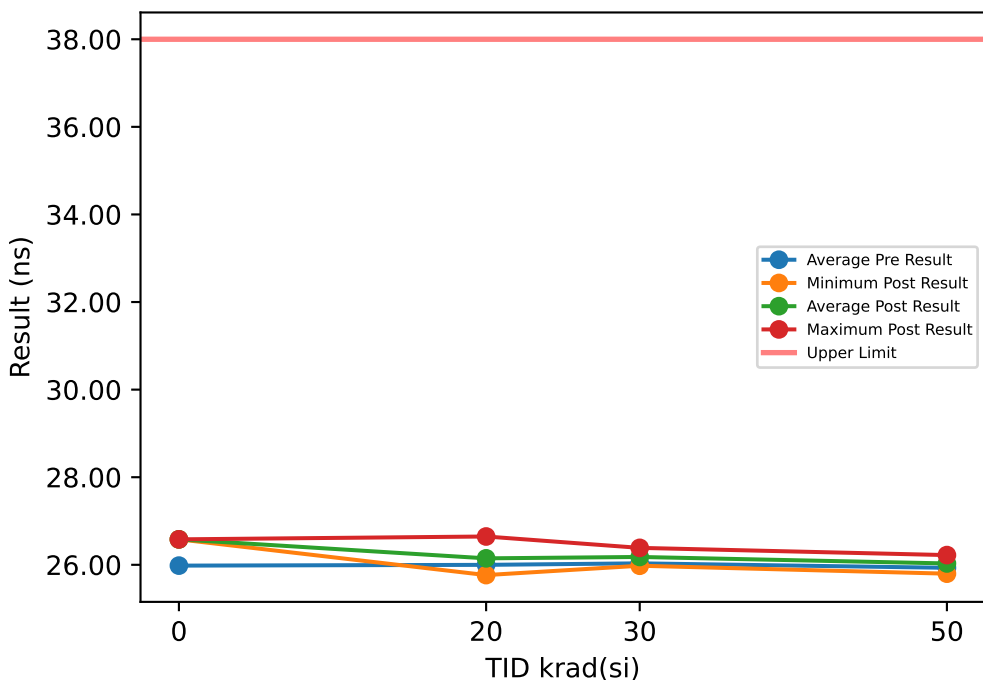


Test Statistics (ns)

| 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 | 22.224 | 22.224 | 22.224 | | 22.573 | 22.573 | 22.573 | | 0.3488 | 0.3488 | 0.3488 | |
| 20 | 21.843 | 22.136 | 22.448 | 0.18846 | 22.117 | 22.288 | 22.517 | 0.14922 | 0.0088 | 0.15146 | 0.3061 | 0.10964 |
| 30 | 21.999 | 22.18 | 22.448 | 0.14766 | 21.932 | 22.268 | 22.405 | 0.13846 | -0.1023 | 0.08791 | 0.2886 | 0.15046 |
| 50 | 21.897 | 22.111 | 22.446 | 0.18042 | 22.013 | 22.168 | 22.411 | 0.15059 | -0.0837 | 0.05671 | 0.2336 | 0.11297 |

Device Test: 112.7 SW_T_LPHL_IIM(Prop Delay LO Off IIM Interlock Disable VIN_14V)

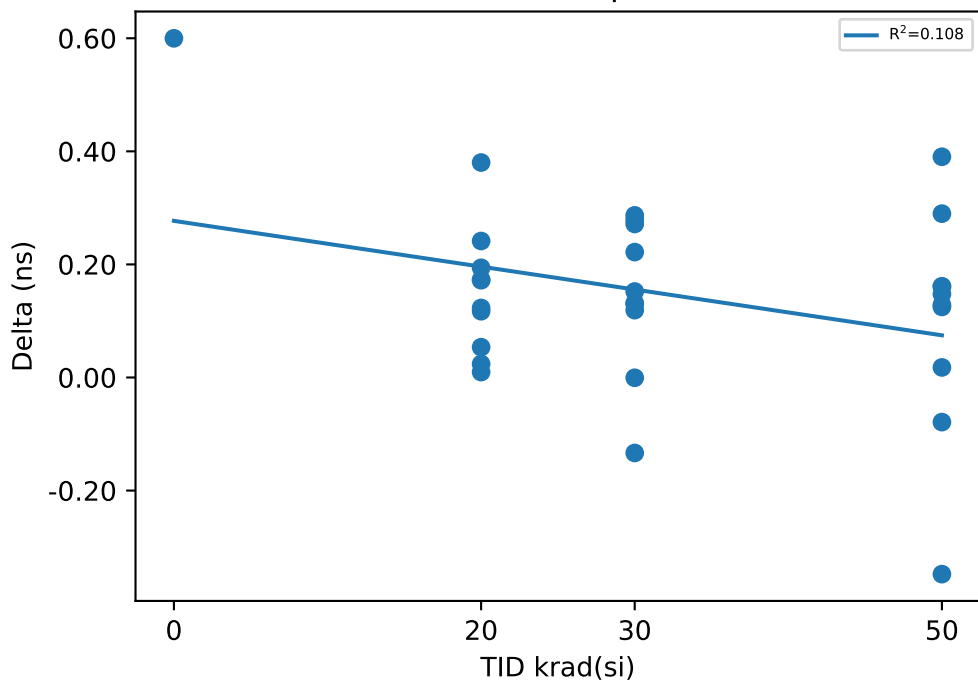
TID vs Result Stats



Test Results (Upper Limit = 38.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 25.982 | 26.581 | 0.5999 |
| 321 | 20 | HDR unbiased | 26.061 | 26.255 | 0.194 |
| 322 | 20 | HDR unbiased | 25.859 | 26.031 | 0.172 |
| 323 | 20 | HDR unbiased | 26.266 | 26.646 | 0.3802 |
| 324 | 20 | HDR unbiased | 26.003 | 26.057 | 0.0536 |
| 325 | 20 | HDR unbiased | 25.861 | 26.103 | 0.2414 |
| 331 | 30 | HDR unbiased | 26.005 | 26.226 | 0.2218 |
| 332 | 30 | HDR unbiased | 26.171 | 26.303 | 0.1317 |
| 333 | 30 | HDR unbiased | 25.796 | 26.075 | 0.2784 |
| 334 | 30 | HDR unbiased | 26.064 | 26.193 | 0.1298 |
| 335 | 30 | HDR unbiased | 26.049 | 26.168 | 0.1191 |
| 351 | 50 | HDR unbiased | 25.752 | 26.143 | 0.3904 |
| 352 | 50 | HDR unbiased | 25.929 | 26.076 | 0.1475 |
| 353 | 50 | HDR unbiased | 26.145 | 25.798 | -0.3478 |
| 354 | 50 | HDR unbiased | 25.645 | 25.935 | 0.2898 |
| 355 | 50 | HDR unbiased | 25.817 | 25.834 | 0.0178 |
| 521 | 20 | HDR biased | 26.017 | 26.14 | 0.123 |
| 522 | 20 | HDR biased | 26.267 | 26.29 | 0.0239 |
| 523 | 20 | HDR biased | 26.131 | 26.304 | 0.1731 |
| 524 | 20 | HDR biased | 25.756 | 25.765 | 0.0096 |
| 525 | 20 | HDR biased | 25.768 | 25.885 | 0.1172 |
| 531 | 30 | HDR biased | 26.171 | 26.17 | -0.0005 |
| 532 | 30 | HDR biased | 25.827 | 25.979 | 0.1521 |
| 533 | 30 | HDR biased | 26.197 | 26.064 | -0.1335 |
| 534 | 30 | HDR biased | 25.956 | 26.227 | 0.2715 |
| 535 | 30 | HDR biased | 26.1 | 26.387 | 0.2867 |
| 551 | 50 | HDR biased | 26.102 | 26.023 | -0.0789 |
| 552 | 50 | HDR biased | 26.093 | 26.222 | 0.1285 |
| 553 | 50 | HDR biased | 26.016 | 26.141 | 0.1248 |
| 554 | 50 | HDR biased | 25.852 | 26.013 | 0.1609 |
| 555 | 50 | HDR biased | 25.963 | 26.125 | 0.1612 |

TID vs Post - Pre Exposure Delta

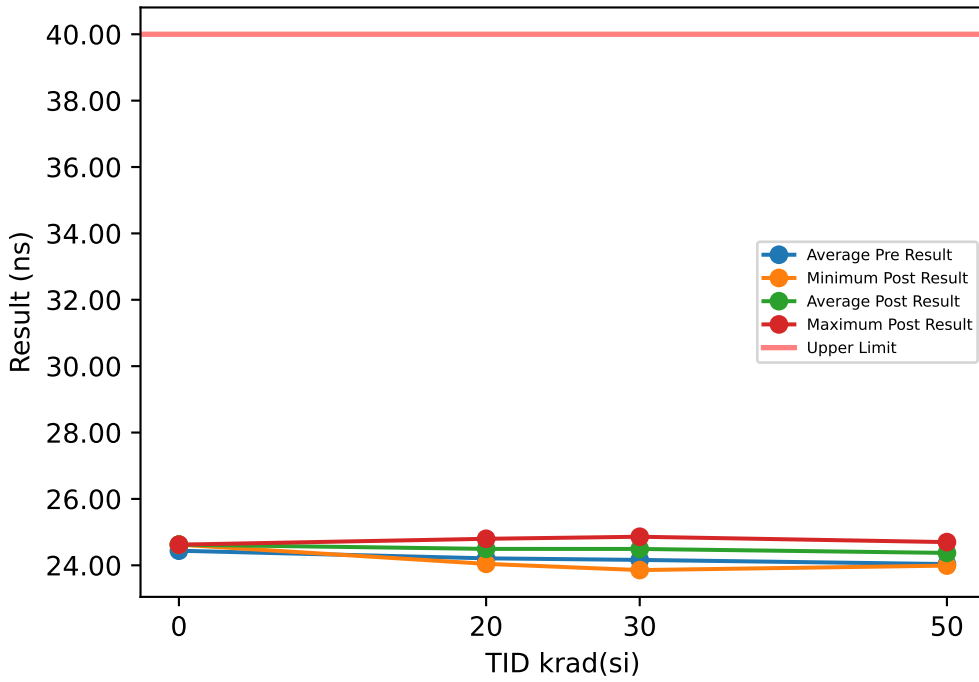


Test Statistics (ns)

| 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 | 25.982 | 25.982 | 25.982 | | 26.581 | 26.581 | 26.581 | | 0.5999 | 0.5999 | 0.5999 | |
| 20 | 25.756 | 25.999 | 26.267 | 0.18718 | 25.765 | 26.148 | 26.646 | 0.24578 | 0.0096 | 0.1488 | 0.3802 | 0.11105 |
| 30 | 25.796 | 26.034 | 26.197 | 0.13991 | 25.979 | 26.179 | 26.387 | 0.11913 | -0.1335 | 0.14571 | 0.2867 | 0.13318 |
| 50 | 25.645 | 25.932 | 26.145 | 0.16432 | 25.798 | 26.031 | 26.222 | 0.13926 | -0.3478 | 0.09942 | 0.3904 | 0.20297 |

Device Test: 112.8 SW_T_HPLH_IIM(Prop Delay HO On IIM Interlock Disable VIN_14V)

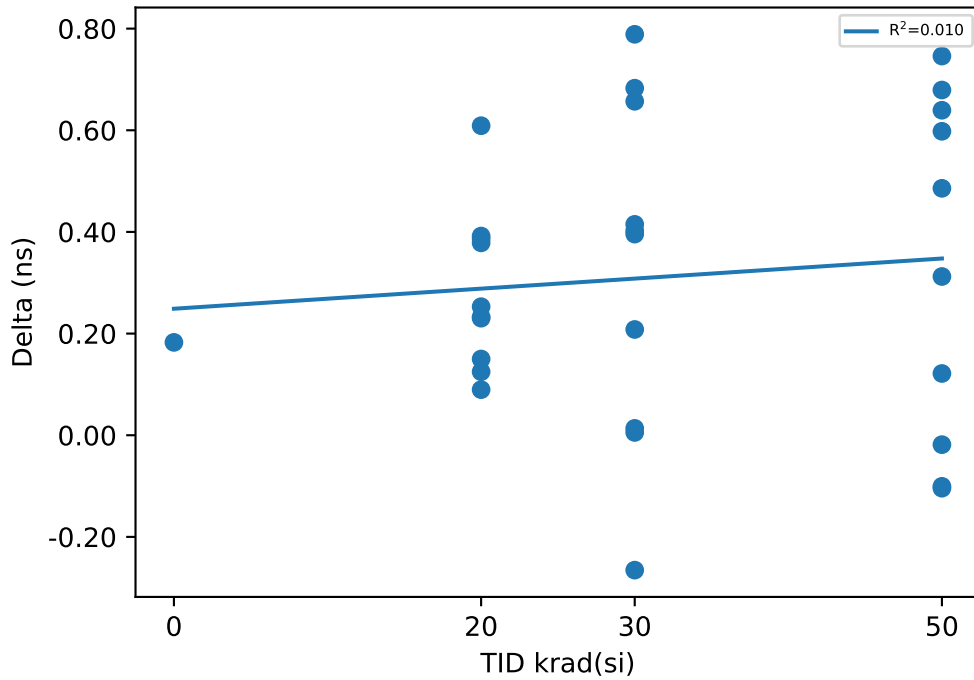
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 24.439 | 24.622 | 0.1827 |
| 321 | 20 | HDR unbiased | 24.413 | 24.538 | 0.125 |
| 322 | 20 | HDR unbiased | 24.02 | 24.17 | 0.15 |
| 323 | 20 | HDR unbiased | 23.791 | 24.043 | 0.2529 |
| 324 | 20 | HDR unbiased | 24.158 | 24.537 | 0.3785 |
| 325 | 20 | HDR unbiased | 24.093 | 24.703 | 0.609 |
| 331 | 30 | HDR unbiased | 24.178 | 24.861 | 0.6828 |
| 332 | 30 | HDR unbiased | 23.629 | 24.286 | 0.657 |
| 333 | 30 | HDR unbiased | 24.354 | 24.562 | 0.2081 |
| 334 | 30 | HDR unbiased | 24.246 | 24.661 | 0.4149 |
| 335 | 30 | HDR unbiased | 24.08 | 24.476 | 0.3957 |
| 351 | 50 | HDR unbiased | 24.166 | 24.478 | 0.3123 |
| 352 | 50 | HDR unbiased | 24.099 | 24.08 | -0.0185 |
| 353 | 50 | HDR unbiased | 24.101 | 24.699 | 0.598 |
| 354 | 50 | HDR unbiased | 23.776 | 24.455 | 0.6792 |
| 355 | 50 | HDR unbiased | 24.091 | 23.991 | -0.1005 |
| 521 | 20 | HDR biased | 24.216 | 24.306 | 0.0897 |
| 522 | 20 | HDR biased | 24.252 | 24.643 | 0.3919 |
| 523 | 20 | HDR biased | 24.349 | 24.579 | 0.2303 |
| 524 | 20 | HDR biased | 24.412 | 24.799 | 0.3865 |
| 525 | 20 | HDR biased | 24.393 | 24.626 | 0.2329 |
| 531 | 30 | HDR biased | 23.994 | 24.782 | 0.7888 |
| 532 | 30 | HDR biased | 24.121 | 23.856 | -0.2654 |
| 533 | 30 | HDR biased | 24.4 | 24.802 | 0.4024 |
| 534 | 30 | HDR biased | 24.297 | 24.302 | 0.0055 |
| 535 | 30 | HDR biased | 24.329 | 24.343 | 0.0135 |
| 551 | 50 | HDR biased | 24.035 | 24.52 | 0.4858 |
| 552 | 50 | HDR biased | 23.731 | 24.371 | 0.6394 |
| 553 | 50 | HDR biased | 24.339 | 24.235 | -0.1042 |
| 554 | 50 | HDR biased | 23.921 | 24.667 | 0.746 |
| 555 | 50 | HDR biased | 24.113 | 24.235 | 0.1215 |

TID vs Post - Pre Exposure Delta

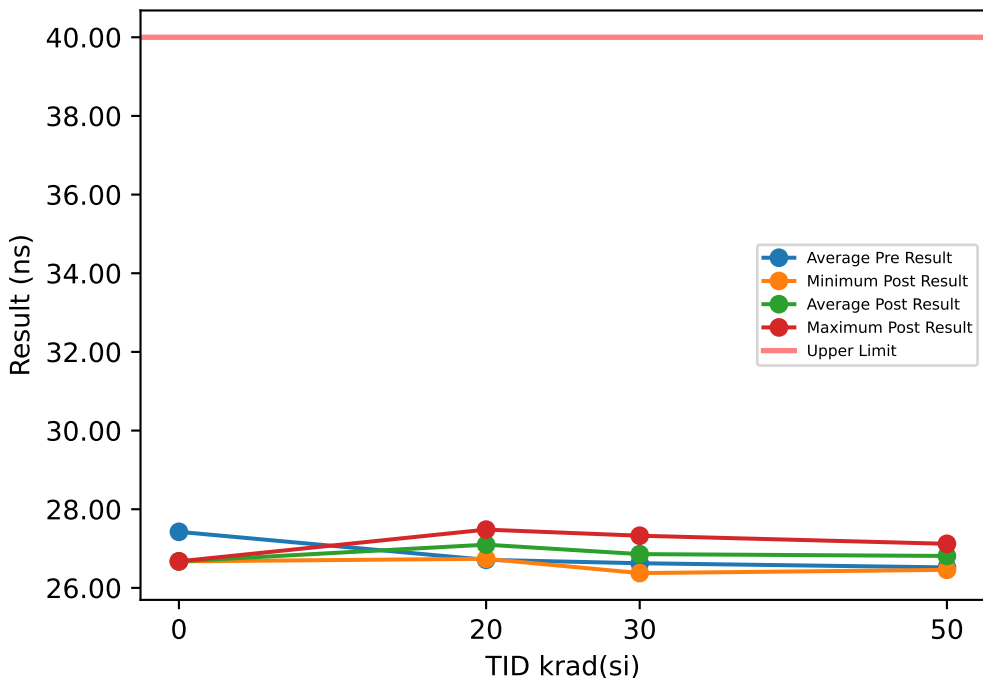


Test Statistics (ns)

| 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 | 24.439 | 24.439 | 24.439 | | 24.622 | 24.622 | 24.622 | | 0.1827 | 0.1827 | 0.1827 | |
| 20 | 23.791 | 24.21 | 24.413 | 0.20137 | 24.043 | 24.494 | 24.799 | 0.24271 | 0.0897 | 0.28467 | 0.609 | 0.15782 |
| 30 | 23.629 | 24.163 | 24.4 | 0.22803 | 23.856 | 24.493 | 24.861 | 0.30832 | -0.2654 | 0.33033 | 0.7888 | 0.33887 |
| 50 | 23.731 | 24.037 | 24.339 | 0.18247 | 23.991 | 24.373 | 24.699 | 0.23626 | -0.1042 | 0.3359 | 0.746 | 0.33757 |

Device Test: 112.9 SW_T_HPHL_IIM(_Prop Delay HO Off IIM Interlock Disable VIN_14V)

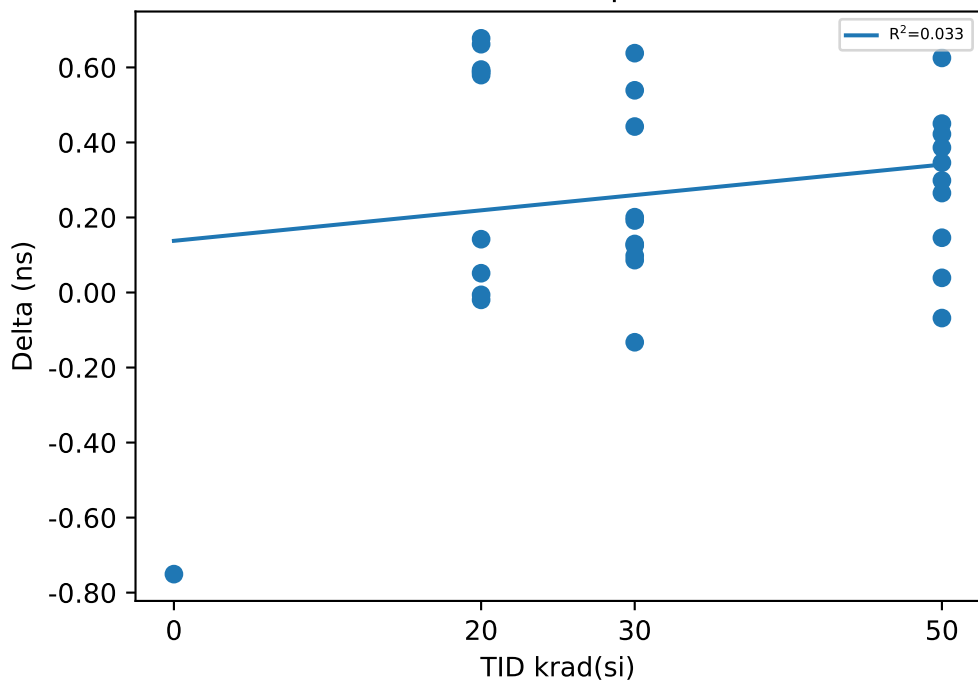
TID vs Result Stats



Test Results (Upper Limit = 40.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 27.425 | 26.675 | -0.7507 |
| 321 | 20 | HDR unbiased | 26.633 | 27.311 | 0.6776 |
| 322 | 20 | HDR unbiased | 26.491 | 27.081 | 0.5892 |
| 323 | 20 | HDR unbiased | 26.283 | 26.863 | 0.5795 |
| 324 | 20 | HDR unbiased | 26.684 | 26.827 | 0.1421 |
| 325 | 20 | HDR unbiased | 26.941 | 26.921 | -0.0196 |
| 331 | 30 | HDR unbiased | 26.768 | 26.893 | 0.1255 |
| 332 | 30 | HDR unbiased | 26.3 | 26.386 | 0.0863 |
| 333 | 30 | HDR unbiased | 26.875 | 27.317 | 0.4424 |
| 334 | 30 | HDR unbiased | 26.432 | 26.624 | 0.1919 |
| 335 | 30 | HDR unbiased | 26.711 | 26.809 | 0.0981 |
| 351 | 50 | HDR unbiased | 26.685 | 26.617 | -0.0681 |
| 352 | 50 | HDR unbiased | 26.344 | 26.969 | 0.6253 |
| 353 | 50 | HDR unbiased | 26.514 | 26.812 | 0.2986 |
| 354 | 50 | HDR unbiased | 26.215 | 26.637 | 0.4223 |
| 355 | 50 | HDR unbiased | 26.465 | 26.73 | 0.2651 |
| 521 | 20 | HDR biased | 26.852 | 27.438 | 0.5867 |
| 522 | 20 | HDR biased | 26.688 | 26.74 | 0.0514 |
| 523 | 20 | HDR biased | 26.771 | 27.365 | 0.5943 |
| 524 | 20 | HDR biased | 26.967 | 26.96 | -0.0062 |
| 525 | 20 | HDR biased | 26.82 | 27.482 | 0.6619 |
| 531 | 30 | HDR biased | 26.687 | 26.888 | 0.2008 |
| 532 | 30 | HDR biased | 26.509 | 26.376 | -0.1326 |
| 533 | 30 | HDR biased | 26.622 | 26.751 | 0.1294 |
| 534 | 30 | HDR biased | 26.578 | 27.216 | 0.638 |
| 535 | 30 | HDR biased | 26.788 | 27.327 | 0.539 |
| 551 | 50 | HDR biased | 26.386 | 26.732 | 0.346 |
| 552 | 50 | HDR biased | 26.419 | 26.458 | 0.0391 |
| 553 | 50 | HDR biased | 26.634 | 27.084 | 0.4503 |
| 554 | 50 | HDR biased | 26.812 | 26.958 | 0.146 |
| 555 | 50 | HDR biased | 26.734 | 27.121 | 0.3863 |

TID vs Post - Pre Exposure Delta

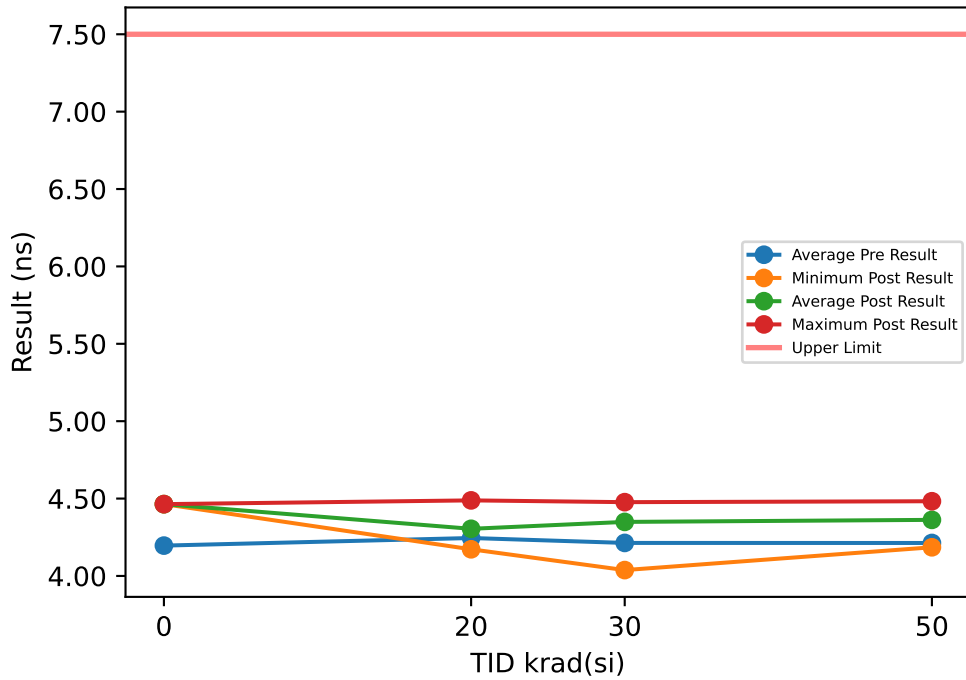


Test Statistics (ns)

| 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 | 27.425 | 27.425 | 27.425 | | 26.675 | 26.675 | 26.675 | | -0.7507 | -0.7507 | -0.7507 | |
| 20 | 26.283 | 26.713 | 26.967 | 0.20862 | 26.74 | 27.099 | 27.482 | 0.27643 | -0.0196 | 0.38569 | 0.6776 | 0.30062 |
| 30 | 26.3 | 26.627 | 26.875 | 0.17598 | 26.376 | 26.859 | 27.327 | 0.34691 | -0.1326 | 0.23188 | 0.638 | 0.23568 |
| 50 | 26.215 | 26.521 | 26.812 | 0.19052 | 26.458 | 26.812 | 27.121 | 0.21661 | -0.0681 | 0.29109 | 0.6253 | 0.20565 |

Device Test: 115.0 SW_T_HRC(_Rise Time HO VIN_10V)

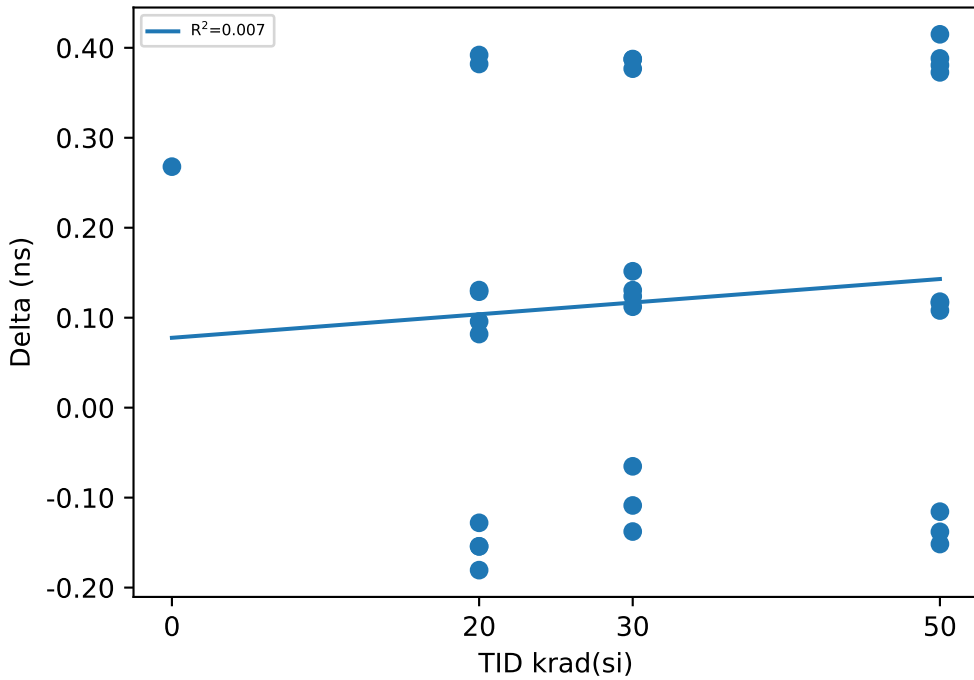
TID vs Result Stats



Test Results (Upper Limit = 7.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.1961 | 4.464 | 0.2679 |
| 321 | 20 | HDR unbiased | 4.3264 | 4.1723 | -0.1541 |
| 322 | 20 | HDR unbiased | 4.3383 | 4.2103 | -0.128 |
| 323 | 20 | HDR unbiased | 4.1107 | 4.1925 | 0.0818 |
| 324 | 20 | HDR unbiased | 4.3437 | 4.4744 | 0.1307 |
| 325 | 20 | HDR unbiased | 4.0822 | 4.4742 | 0.392 |
| 331 | 30 | HDR unbiased | 4.0914 | 4.4682 | 0.3768 |
| 332 | 30 | HDR unbiased | 4.0834 | 4.4706 | 0.3872 |
| 333 | 30 | HDR unbiased | 4.0603 | 4.2119 | 0.1516 |
| 334 | 30 | HDR unbiased | 4.3422 | 4.4728 | 0.1306 |
| 335 | 30 | HDR unbiased | 4.3472 | 4.471 | 0.1238 |
| 351 | 50 | HDR unbiased | 4.0918 | 4.4645 | 0.3727 |
| 352 | 50 | HDR unbiased | 4.3232 | 4.1852 | -0.138 |
| 353 | 50 | HDR unbiased | 4.352 | 4.4698 | 0.1178 |
| 354 | 50 | HDR unbiased | 4.0896 | 4.4778 | 0.3882 |
| 355 | 50 | HDR unbiased | 4.312 | 4.1964 | -0.1156 |
| 521 | 20 | HDR biased | 4.3564 | 4.2022 | -0.1542 |
| 522 | 20 | HDR biased | 4.3594 | 4.4883 | 0.1289 |
| 523 | 20 | HDR biased | 4.0868 | 4.1826 | 0.0958 |
| 524 | 20 | HDR biased | 4.0844 | 4.4664 | 0.382 |
| 525 | 20 | HDR biased | 4.3636 | 4.183 | -0.1806 |
| 531 | 30 | HDR biased | 4.0893 | 4.4768 | 0.3875 |
| 532 | 30 | HDR biased | 4.1031 | 4.0379 | -0.0652 |
| 533 | 30 | HDR biased | 4.3506 | 4.4628 | 0.1122 |
| 534 | 30 | HDR biased | 4.3274 | 4.2187 | -0.1087 |
| 535 | 30 | HDR biased | 4.3392 | 4.2015 | -0.1377 |
| 551 | 50 | HDR biased | 4.3628 | 4.4791 | 0.1163 |
| 552 | 50 | HDR biased | 4.0677 | 4.4827 | 0.415 |
| 553 | 50 | HDR biased | 4.3537 | 4.2021 | -0.1516 |
| 554 | 50 | HDR biased | 4.093 | 4.4737 | 0.3807 |
| 555 | 50 | HDR biased | 4.0847 | 4.1927 | 0.108 |

TID vs Post - Pre Exposure Delta

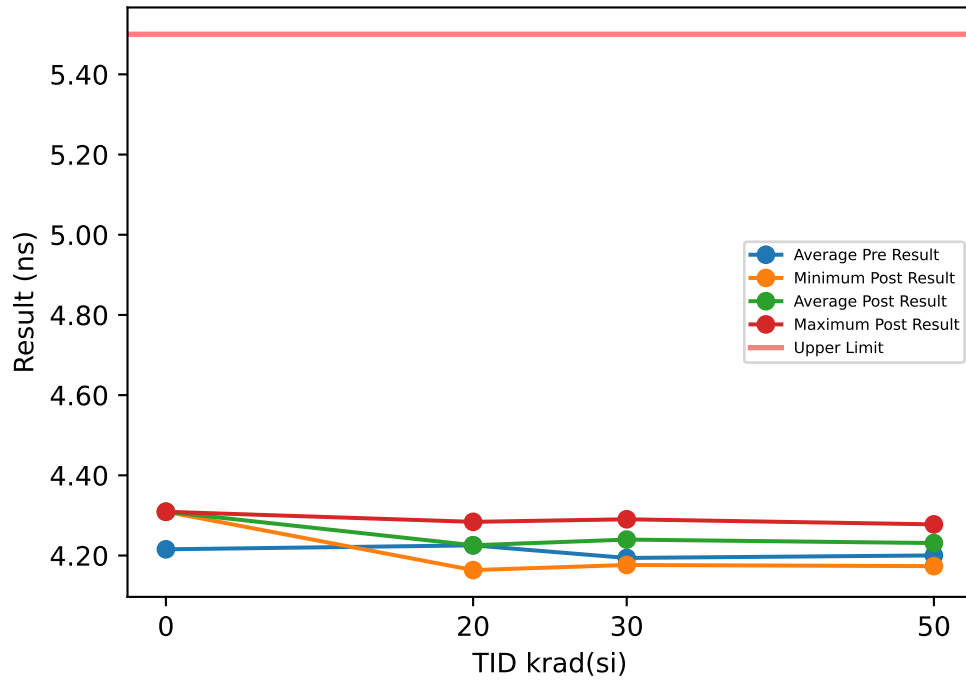


Test Statistics (ns)

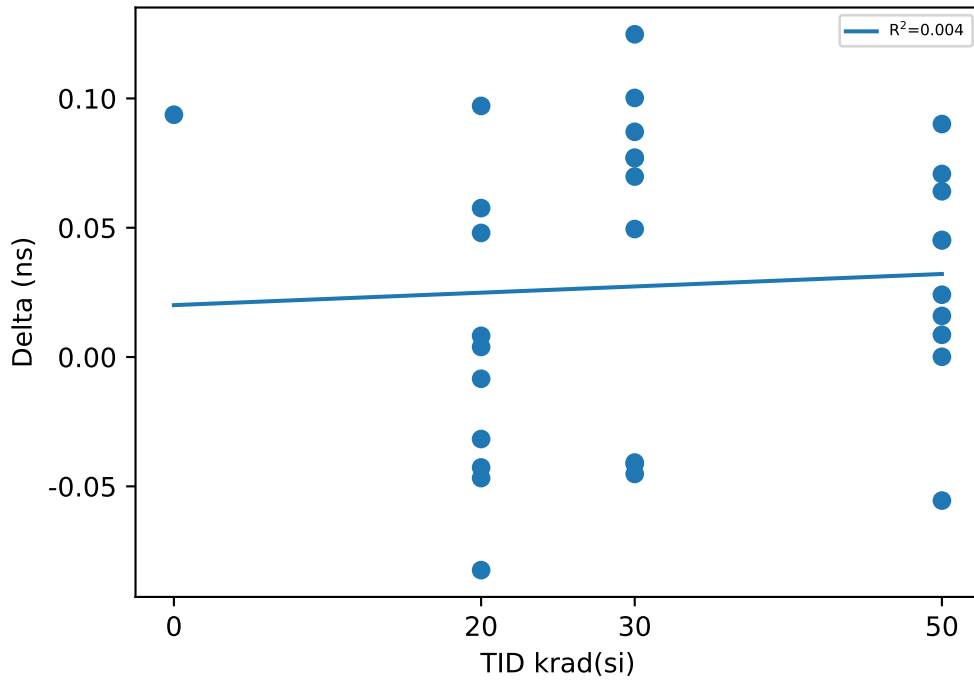
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.1961 | 4.1961 | 4.1961 | | 4.464 | 4.464 | 4.464 | | 0.2679 | 0.2679 | 0.2679 | |
| 20 | 4.0822 | 4.2452 | 4.3636 | 0.13333 | 4.1723 | 4.3046 | 4.4883 | 0.14781 | -0.1806 | 0.05943 | 0.392 | 0.21353 |
| 30 | 4.0603 | 4.2134 | 4.3506 | 0.13537 | 4.0379 | 4.3492 | 4.4768 | 0.16425 | -0.1377 | 0.13581 | 0.3875 | 0.20017 |
| 50 | 4.0677 | 4.213 | 4.3628 | 0.13556 | 4.1852 | 4.3624 | 4.4827 | 0.14499 | -0.1516 | 0.14935 | 0.415 | 0.2305 |

Device Test: 115.1 SW_T_HFC(Fall Time HO VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.5 (ns))

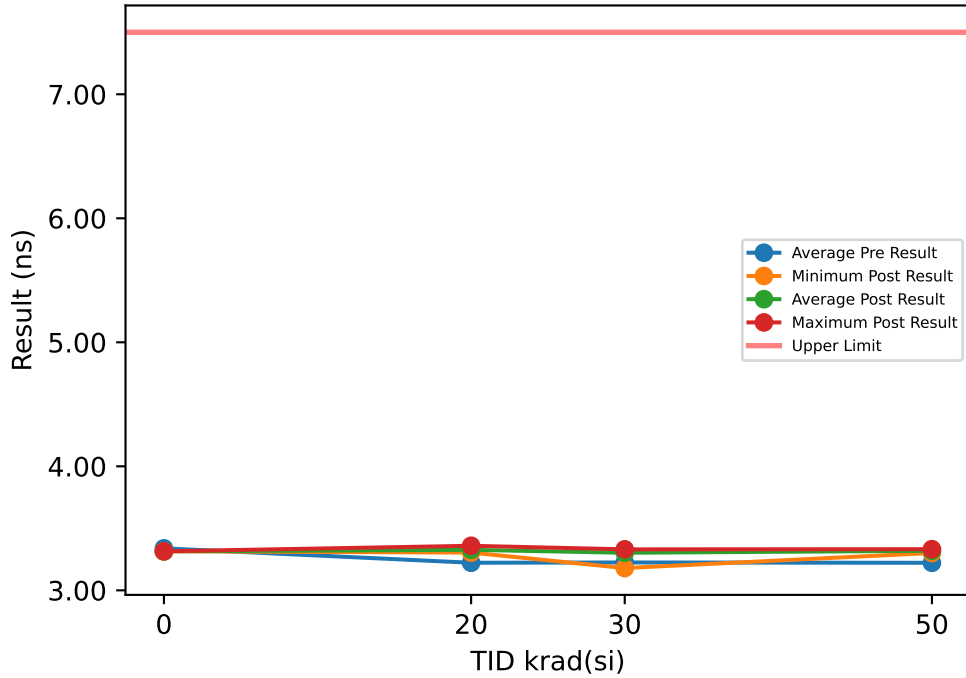
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.2155 | 4.3092 | 0.0937 |
| 321 | 20 | HDR unbiased | 4.2627 | 4.1803 | -0.0824 |
| 322 | 20 | HDR unbiased | 4.1954 | 4.1637 | -0.0317 |
| 323 | 20 | HDR unbiased | 4.1974 | 4.2013 | 0.0039 |
| 324 | 20 | HDR unbiased | 4.2267 | 4.2747 | 0.048 |
| 325 | 20 | HDR unbiased | 4.2254 | 4.283 | 0.0576 |
| 331 | 30 | HDR unbiased | 4.1902 | 4.2904 | 0.1002 |
| 332 | 30 | HDR unbiased | 4.1858 | 4.2729 | 0.0871 |
| 333 | 30 | HDR unbiased | 4.1269 | 4.1764 | 0.0495 |
| 334 | 30 | HDR unbiased | 4.2082 | 4.2851 | 0.0769 |
| 335 | 30 | HDR unbiased | 4.2085 | 4.2783 | 0.0698 |
| 351 | 50 | HDR unbiased | 4.2008 | 4.2461 | 0.0453 |
| 352 | 50 | HDR unbiased | 4.1762 | 4.1921 | 0.0159 |
| 353 | 50 | HDR unbiased | 4.2326 | 4.2777 | 0.0451 |
| 354 | 50 | HDR unbiased | 4.1835 | 4.2543 | 0.0708 |
| 355 | 50 | HDR unbiased | 4.1494 | 4.1735 | 0.0241 |
| 521 | 20 | HDR biased | 4.2507 | 4.208 | -0.0427 |
| 522 | 20 | HDR biased | 4.2725 | 4.2641 | -0.0084 |
| 523 | 20 | HDR biased | 4.1939 | 4.2021 | 0.0082 |
| 524 | 20 | HDR biased | 4.1869 | 4.284 | 0.0971 |
| 525 | 20 | HDR biased | 4.2418 | 4.195 | -0.0468 |
| 531 | 30 | HDR biased | 4.1464 | 4.2712 | 0.1248 |
| 532 | 30 | HDR biased | 4.1623 | 4.2394 | 0.0771 |
| 533 | 30 | HDR biased | 4.2506 | 4.2054 | -0.0452 |
| 534 | 30 | HDR biased | 4.223 | 4.1817 | -0.0413 |
| 535 | 30 | HDR biased | 4.238 | 4.1972 | -0.0408 |
| 551 | 50 | HDR biased | 4.274 | 4.2741 | 0.0001 |
| 552 | 50 | HDR biased | 4.1642 | 4.2543 | 0.0901 |
| 553 | 50 | HDR biased | 4.2496 | 4.1941 | -0.0555 |
| 554 | 50 | HDR biased | 4.1928 | 4.2569 | 0.0641 |
| 555 | 50 | HDR biased | 4.1793 | 4.1879 | 0.0086 |

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 | 4.2155 | 4.2155 | 4.2155 | | 4.3092 | 4.3092 | 4.3092 | | 0.0937 | 0.0937 | 0.0937 | |
| 20 | 4.1869 | 4.2253 | 4.2725 | 0.031054 | 4.1637 | 4.2256 | 4.284 | 0.045791 | -0.0824 | 0.00028 | 0.0971 | 0.054783 |
| 30 | 4.1269 | 4.194 | 4.2506 | 0.039787 | 4.1764 | 4.2398 | 4.2904 | 0.045424 | -0.0452 | 0.04581 | 0.1248 | 0.063953 |
| 50 | 4.1494 | 4.2002 | 4.274 | 0.039665 | 4.1735 | 4.2311 | 4.2777 | 0.039527 | -0.0555 | 0.03086 | 0.0901 | 0.041886 |

Device Test: 115.2 SW_T_LRC(Rise Time LO VIN_10V)

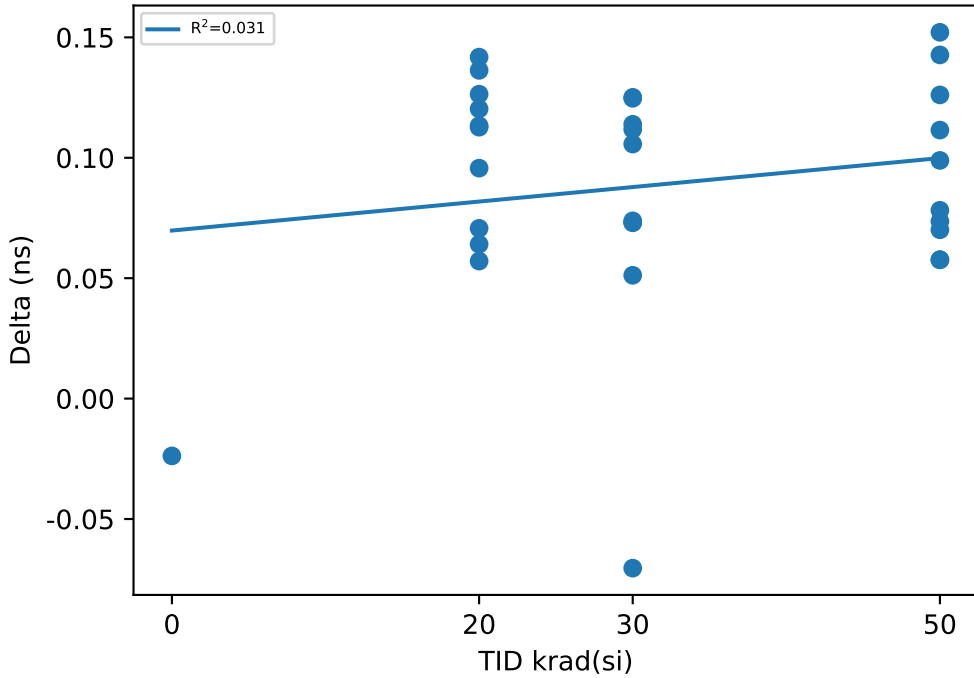
TID vs Result Stats



Test Results (Upper Limit = 7.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.3386 | 3.3148 | -0.0238 |
| 321 | 20 | HDR unbiased | 3.1988 | 3.3351 | 0.1363 |
| 322 | 20 | HDR unbiased | 3.1841 | 3.3105 | 0.1264 |
| 323 | 20 | HDR unbiased | 3.256 | 3.3267 | 0.0707 |
| 324 | 20 | HDR unbiased | 3.1921 | 3.3124 | 0.1203 |
| 325 | 20 | HDR unbiased | 3.2404 | 3.3045 | 0.0641 |
| 331 | 30 | HDR unbiased | 3.2639 | 3.3151 | 0.0512 |
| 332 | 30 | HDR unbiased | 3.2354 | 3.3092 | 0.0738 |
| 333 | 30 | HDR unbiased | 3.2573 | 3.3303 | 0.073 |
| 334 | 30 | HDR unbiased | 3.1904 | 3.3151 | 0.1247 |
| 335 | 30 | HDR unbiased | 3.1805 | 3.3056 | 0.1251 |
| 351 | 50 | HDR unbiased | 3.2366 | 3.3148 | 0.0782 |
| 352 | 50 | HDR unbiased | 3.189 | 3.3317 | 0.1427 |
| 353 | 50 | HDR unbiased | 3.2028 | 3.3017 | 0.0989 |
| 354 | 50 | HDR unbiased | 3.2438 | 3.3014 | 0.0576 |
| 355 | 50 | HDR unbiased | 3.1701 | 3.3222 | 0.1521 |
| 521 | 20 | HDR biased | 3.2069 | 3.3202 | 0.1133 |
| 522 | 20 | HDR biased | 3.2176 | 3.3303 | 0.1127 |
| 523 | 20 | HDR biased | 3.2635 | 3.3592 | 0.0957 |
| 524 | 20 | HDR biased | 3.2616 | 3.3187 | 0.0571 |
| 525 | 20 | HDR biased | 3.2034 | 3.3452 | 0.1418 |
| 531 | 30 | HDR biased | 3.2573 | 3.3305 | 0.0732 |
| 532 | 30 | HDR biased | 3.2498 | 3.1794 | -0.0704 |
| 533 | 30 | HDR biased | 3.2025 | 3.3164 | 0.1139 |
| 534 | 30 | HDR biased | 3.2042 | 3.316 | 0.1118 |
| 535 | 30 | HDR biased | 3.2062 | 3.3119 | 0.1057 |
| 551 | 50 | HDR biased | 3.2057 | 3.3172 | 0.1115 |
| 552 | 50 | HDR biased | 3.2671 | 3.3248 | 0.0577 |
| 553 | 50 | HDR biased | 3.196 | 3.3221 | 0.1261 |
| 554 | 50 | HDR biased | 3.2559 | 3.326 | 0.0701 |
| 555 | 50 | HDR biased | 3.2533 | 3.3269 | 0.0736 |

TID vs Post - Pre Exposure Delta

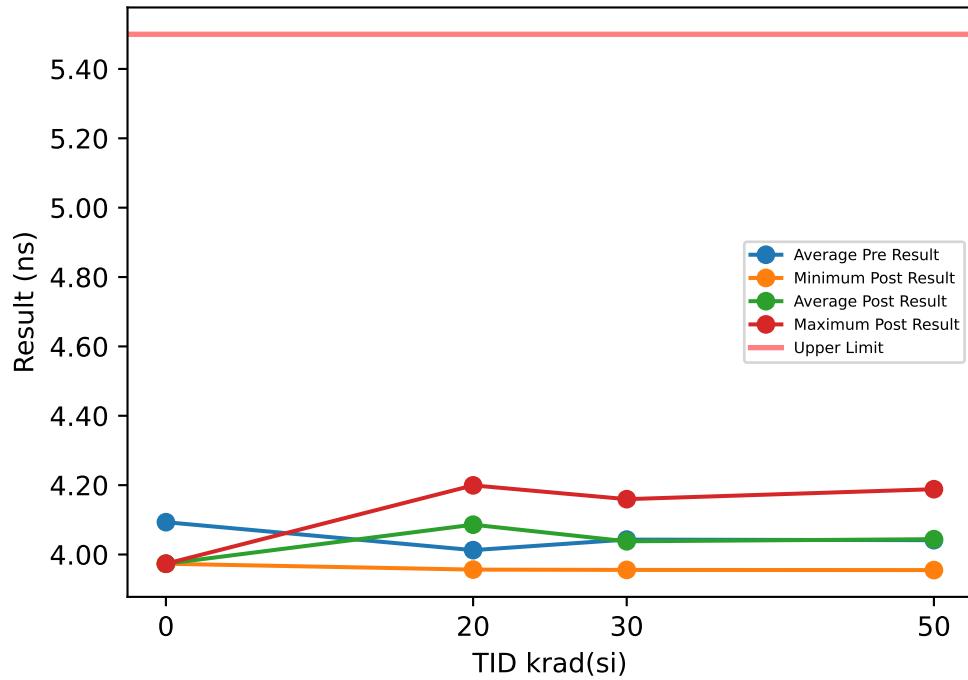


Test Statistics (ns)

| 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 | 3.3386 | 3.3386 | 3.3386 | | 3.3148 | 3.3148 | 3.3148 | | -0.0238 | -0.0238 | -0.0238 | |
| 20 | 3.1841 | 3.2224 | 3.2635 | 0.030267 | 3.3045 | 3.3263 | 3.3592 | 0.01682 | 0.0571 | 0.10384 | 0.1418 | 0.030498 |
| 30 | 3.1805 | 3.2248 | 3.2639 | 0.031255 | 3.1794 | 3.303 | 3.3305 | 0.044152 | -0.0704 | 0.0782 | 0.1251 | 0.058122 |
| 50 | 3.1701 | 3.222 | 3.2671 | 0.03324 | 3.3014 | 3.3189 | 3.3317 | 0.010306 | 0.0576 | 0.09685 | 0.1521 | 0.034811 |

Device Test: 115.3 SW_T_LFC(Fall Time LO VIN_10V)

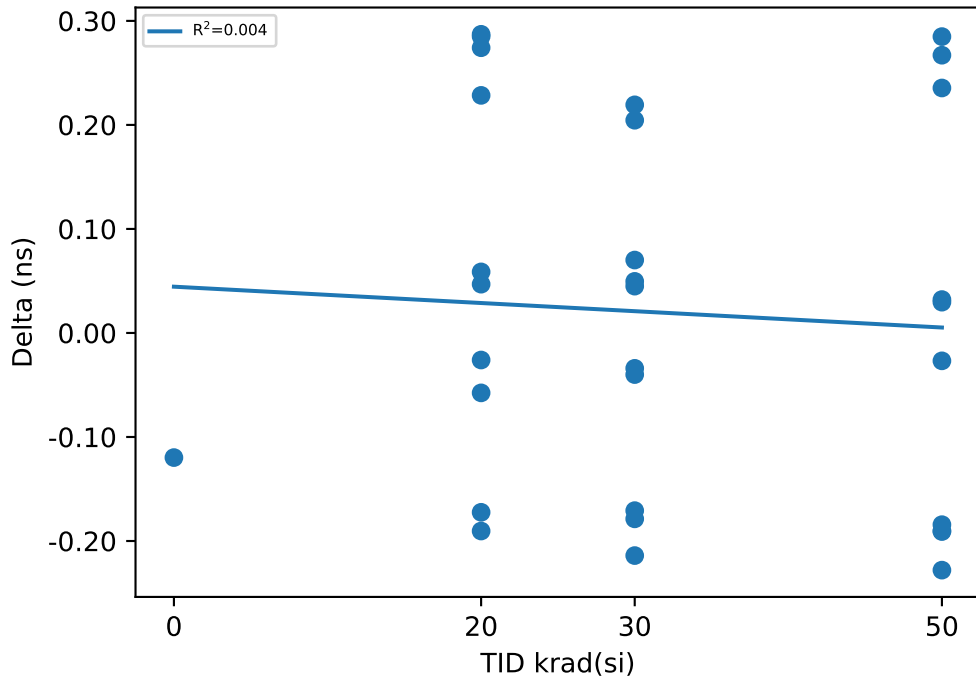
TID vs Result Stats



Test Results (Upper Limit = 5.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.0932 | 3.9734 | -0.1198 |
| 321 | 20 | HDR unbiased | 3.9018 | 4.1868 | 0.285 |
| 322 | 20 | HDR unbiased | 3.8963 | 4.1705 | 0.2742 |
| 323 | 20 | HDR unbiased | 4.1877 | 4.1301 | -0.0576 |
| 324 | 20 | HDR unbiased | 3.9096 | 3.9565 | 0.0469 |
| 325 | 20 | HDR unbiased | 4.1419 | 3.9695 | -0.1724 |
| 331 | 30 | HDR unbiased | 4.1763 | 3.9623 | -0.214 |
| 332 | 30 | HDR unbiased | 4.1481 | 3.9773 | -0.1708 |
| 333 | 30 | HDR unbiased | 4.1813 | 4.1413 | -0.04 |
| 334 | 30 | HDR unbiased | 3.9106 | 3.9556 | 0.045 |
| 335 | 30 | HDR unbiased | 3.8962 | 3.9663 | 0.0701 |
| 351 | 50 | HDR unbiased | 4.2116 | 3.9836 | -0.228 |
| 352 | 50 | HDR unbiased | 3.9034 | 4.1883 | 0.2849 |
| 353 | 50 | HDR unbiased | 3.9255 | 3.9551 | 0.0296 |
| 354 | 50 | HDR unbiased | 4.1425 | 3.9582 | -0.1843 |
| 355 | 50 | HDR unbiased | 3.8905 | 4.1575 | 0.267 |
| 521 | 20 | HDR biased | 3.9245 | 4.1529 | 0.2284 |
| 522 | 20 | HDR biased | 3.9249 | 3.9836 | 0.0587 |
| 523 | 20 | HDR biased | 4.1734 | 4.1474 | -0.026 |
| 524 | 20 | HDR biased | 4.1536 | 3.9632 | -0.1904 |
| 525 | 20 | HDR biased | 3.9123 | 4.1994 | 0.2871 |
| 531 | 30 | HDR biased | 4.1629 | 3.9842 | -0.1787 |
| 532 | 30 | HDR biased | 4.1936 | 4.1596 | -0.034 |
| 533 | 30 | HDR biased | 3.9132 | 3.9628 | 0.0496 |
| 534 | 30 | HDR biased | 3.9122 | 4.1167 | 0.2045 |
| 535 | 30 | HDR biased | 3.9355 | 4.1548 | 0.2193 |
| 551 | 50 | HDR biased | 3.9273 | 3.9594 | 0.0321 |
| 552 | 50 | HDR biased | 4.1669 | 3.9767 | -0.1902 |
| 553 | 50 | HDR biased | 3.9202 | 4.1557 | 0.2355 |
| 554 | 50 | HDR biased | 4.1572 | 3.9663 | -0.1909 |
| 555 | 50 | HDR biased | 4.1683 | 4.1415 | -0.0268 |

TID vs Post - Pre Exposure Delta

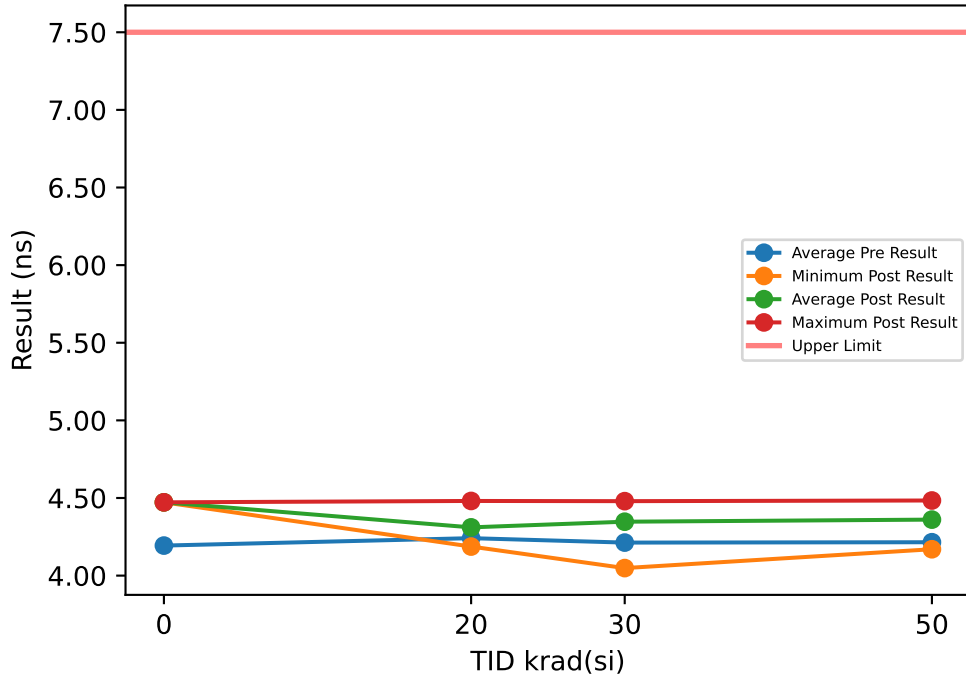


Test Statistics (ns)

| 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 | 4.0932 | 4.0932 | 4.0932 | | 3.9734 | 3.9734 | 3.9734 | | -0.1198 | -0.1198 | -0.1198 | |
| 20 | 3.8963 | 4.0126 | 4.1877 | 0.13125 | 3.9565 | 4.086 | 4.1994 | 0.10342 | -0.1904 | 0.07339 | 0.2871 | 0.18642 |
| 30 | 3.8962 | 4.043 | 4.1936 | 0.13727 | 3.9556 | 4.0381 | 4.1596 | 0.091402 | -0.214 | -0.0049 | 0.2193 | 0.15229 |
| 50 | 3.8905 | 4.0413 | 4.2116 | 0.13639 | 3.9551 | 4.0442 | 4.1883 | 0.10128 | -0.228 | 0.00289 | 0.2849 | 0.20249 |

Device Test: 116.0 SW_T_HRC(Rise Time HO VIN_12V)

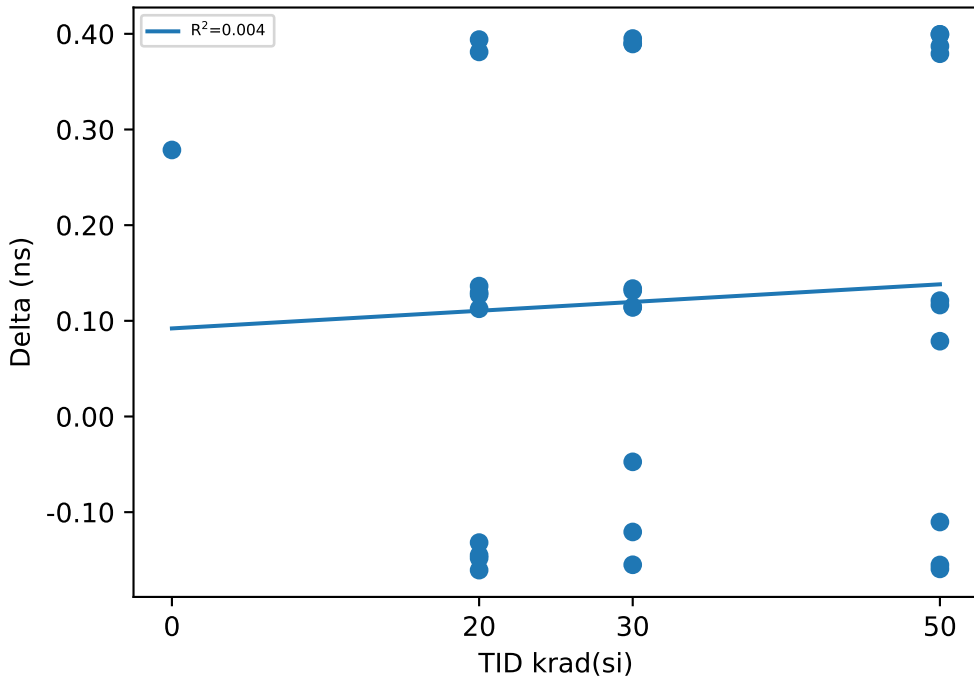
TID vs Result Stats



Test Results (Upper Limit = 7.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.1935 | 4.4721 | 0.2786 |
| 321 | 20 | HDR unbiased | 4.3357 | 4.1877 | -0.148 |
| 322 | 20 | HDR unbiased | 4.3358 | 4.204 | -0.1318 |
| 323 | 20 | HDR unbiased | 4.0916 | 4.2189 | 0.1273 |
| 324 | 20 | HDR unbiased | 4.3396 | 4.4759 | 0.1363 |
| 325 | 20 | HDR unbiased | 4.0778 | 4.4718 | 0.394 |
| 331 | 30 | HDR unbiased | 4.0797 | 4.4691 | 0.3894 |
| 332 | 30 | HDR unbiased | 4.0895 | 4.4796 | 0.3901 |
| 333 | 30 | HDR unbiased | 4.0729 | 4.1869 | 0.114 |
| 334 | 30 | HDR unbiased | 4.3425 | 4.474 | 0.1315 |
| 335 | 30 | HDR unbiased | 4.3408 | 4.4745 | 0.1337 |
| 351 | 50 | HDR unbiased | 4.086 | 4.4731 | 0.3871 |
| 352 | 50 | HDR unbiased | 4.3292 | 4.1699 | -0.1593 |
| 353 | 50 | HDR unbiased | 4.3574 | 4.4739 | 0.1165 |
| 354 | 50 | HDR unbiased | 4.0949 | 4.4741 | 0.3792 |
| 355 | 50 | HDR unbiased | 4.3173 | 4.207 | -0.1103 |
| 521 | 20 | HDR biased | 4.3618 | 4.2012 | -0.1606 |
| 522 | 20 | HDR biased | 4.3513 | 4.4809 | 0.1296 |
| 523 | 20 | HDR biased | 4.0746 | 4.1872 | 0.1126 |
| 524 | 20 | HDR biased | 4.0928 | 4.4739 | 0.3811 |
| 525 | 20 | HDR biased | 4.3516 | 4.2066 | -0.145 |
| 531 | 30 | HDR biased | 4.0843 | 4.4794 | 0.3951 |
| 532 | 30 | HDR biased | 4.0959 | 4.0485 | -0.0474 |
| 533 | 30 | HDR biased | 4.3493 | 4.4639 | 0.1146 |
| 534 | 30 | HDR biased | 4.3356 | 4.2149 | -0.1207 |
| 535 | 30 | HDR biased | 4.3369 | 4.1819 | -0.155 |
| 551 | 50 | HDR biased | 4.3577 | 4.4788 | 0.1211 |
| 552 | 50 | HDR biased | 4.0845 | 4.4839 | 0.3994 |
| 553 | 50 | HDR biased | 4.3459 | 4.1907 | -0.1552 |
| 554 | 50 | HDR biased | 4.0815 | 4.481 | 0.3995 |
| 555 | 50 | HDR biased | 4.0961 | 4.1748 | 0.0787 |

TID vs Post - Pre Exposure Delta

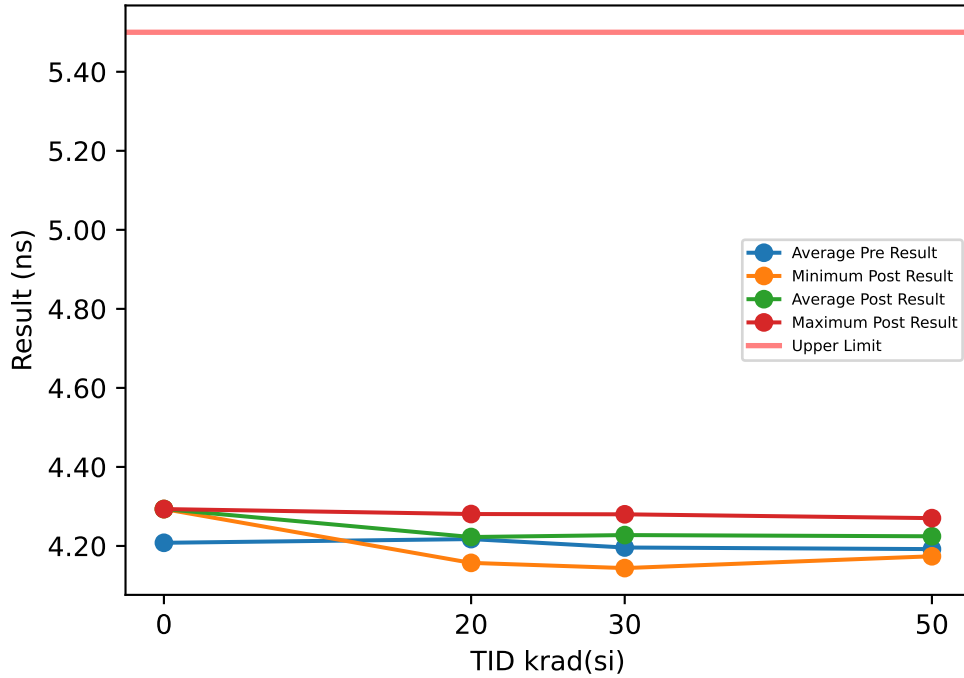


Test Statistics (ns)

| 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 | 4.1935 | 4.1935 | 4.1935 | | 4.4721 | 4.4721 | 4.4721 | | 0.2786 | 0.2786 | 0.2786 | |
| 20 | 4.0746 | 4.2413 | 4.3618 | 0.13551 | 4.1872 | 4.3108 | 4.4809 | 0.14215 | -0.1606 | 0.06955 | 0.394 | 0.21146 |
| 30 | 4.0729 | 4.2127 | 4.3493 | 0.1354 | 4.0485 | 4.3473 | 4.4796 | 0.16849 | -0.155 | 0.13453 | 0.3951 | 0.20577 |
| 50 | 4.0815 | 4.215 | 4.3577 | 0.13389 | 4.1699 | 4.3607 | 4.4839 | 0.15107 | -0.1593 | 0.14567 | 0.3995 | 0.2349 |

Device Test: 116.1 SW_T_HFC(Fall Time HO VIN_12V)

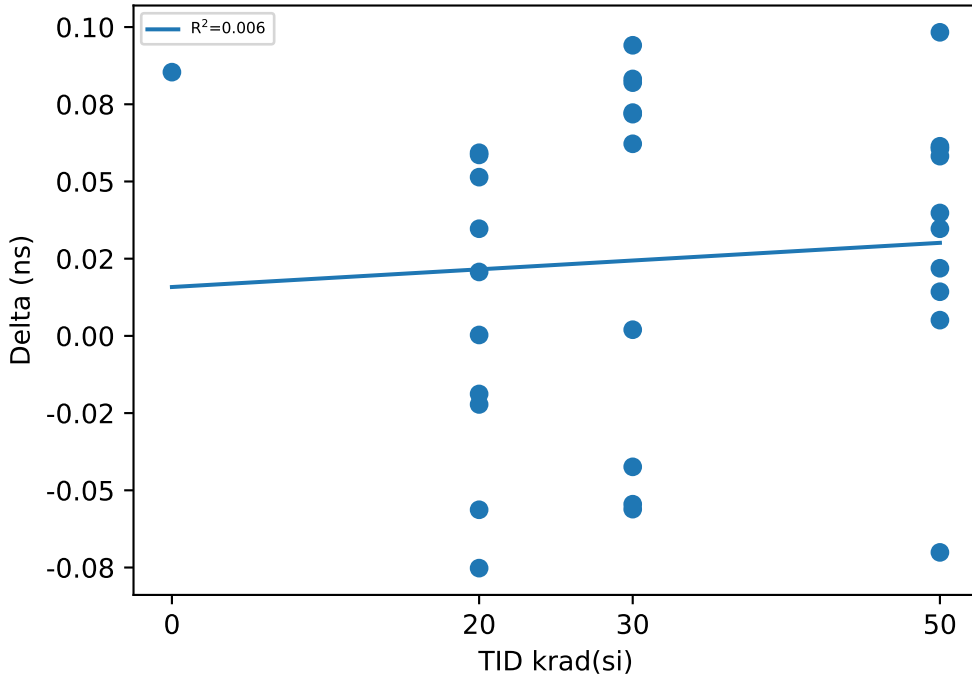
TID vs Result Stats



Test Results (Upper Limit = 5.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.208 | 4.2934 | 0.0854 |
| 321 | 20 | HDR unbiased | 4.2522 | 4.177 | -0.0752 |
| 322 | 20 | HDR unbiased | 4.176 | 4.1572 | -0.0188 |
| 323 | 20 | HDR unbiased | 4.1637 | 4.1984 | 0.0347 |
| 324 | 20 | HDR unbiased | 4.2222 | 4.2808 | 0.0586 |
| 325 | 20 | HDR unbiased | 4.2093 | 4.2607 | 0.0514 |
| 331 | 30 | HDR unbiased | 4.1927 | 4.2759 | 0.0832 |
| 332 | 30 | HDR unbiased | 4.1899 | 4.2617 | 0.0718 |
| 333 | 30 | HDR unbiased | 4.142 | 4.144 | 0.002 |
| 334 | 30 | HDR unbiased | 4.2053 | 4.2776 | 0.0723 |
| 335 | 30 | HDR unbiased | 4.1981 | 4.2801 | 0.082 |
| 351 | 50 | HDR unbiased | 4.1773 | 4.2355 | 0.0582 |
| 352 | 50 | HDR unbiased | 4.1752 | 4.1895 | 0.0143 |
| 353 | 50 | HDR unbiased | 4.232 | 4.2667 | 0.0347 |
| 354 | 50 | HDR unbiased | 4.1895 | 4.2501 | 0.0606 |
| 355 | 50 | HDR unbiased | 4.1459 | 4.1857 | 0.0398 |
| 521 | 20 | HDR biased | 4.265 | 4.2087 | -0.0563 |
| 522 | 20 | HDR biased | 4.2674 | 4.2677 | 0.0003 |
| 523 | 20 | HDR biased | 4.1757 | 4.1964 | 0.0207 |
| 524 | 20 | HDR biased | 4.2079 | 4.2672 | 0.0593 |
| 525 | 20 | HDR biased | 4.2344 | 4.2122 | -0.0222 |
| 531 | 30 | HDR biased | 4.1593 | 4.2534 | 0.0941 |
| 532 | 30 | HDR biased | 4.1671 | 4.2293 | 0.0622 |
| 533 | 30 | HDR biased | 4.2589 | 4.2028 | -0.0561 |
| 534 | 30 | HDR biased | 4.2246 | 4.1822 | -0.0424 |
| 535 | 30 | HDR biased | 4.223 | 4.1685 | -0.0545 |
| 551 | 50 | HDR biased | 4.2485 | 4.2704 | 0.0219 |
| 552 | 50 | HDR biased | 4.1489 | 4.2472 | 0.0983 |
| 553 | 50 | HDR biased | 4.2471 | 4.177 | -0.0701 |
| 554 | 50 | HDR biased | 4.1873 | 4.2487 | 0.0614 |
| 555 | 50 | HDR biased | 4.1688 | 4.1739 | 0.0051 |

TID vs Post - Pre Exposure Delta

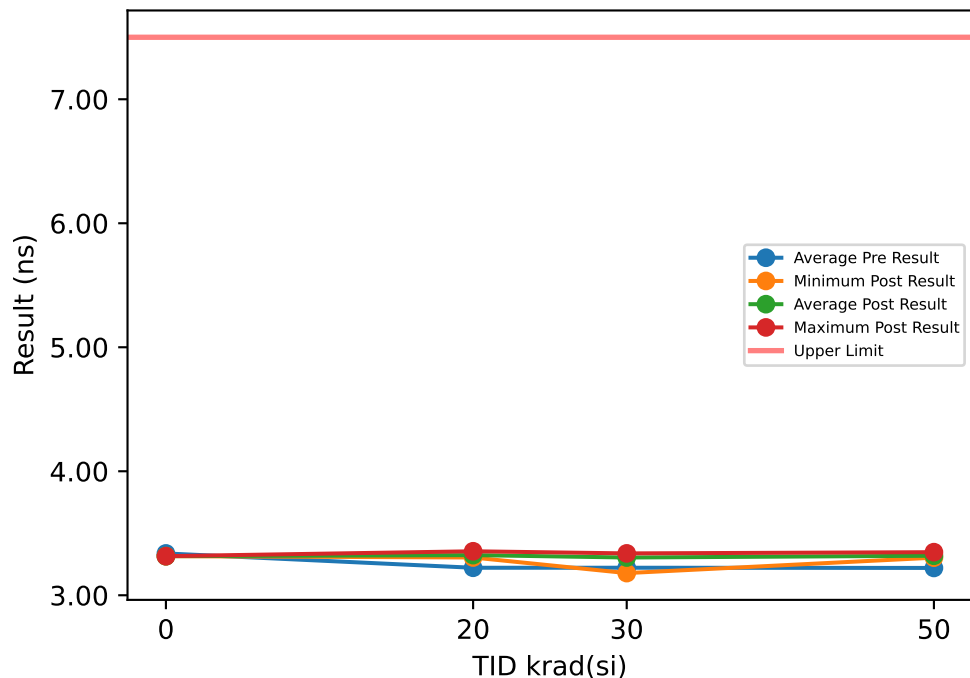


Test Statistics (ns)

| 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 | 4.208 | 4.208 | 4.208 | | 4.2934 | 4.2934 | 4.2934 | | 0.0854 | 0.0854 | 0.0854 | |
| 20 | 4.1637 | 4.2174 | 4.2674 | 0.037685 | 4.1572 | 4.2226 | 4.2808 | 0.043195 | -0.0752 | 0.00525 | 0.0593 | 0.047866 |
| 30 | 4.142 | 4.1961 | 4.2589 | 0.034545 | 4.144 | 4.2275 | 4.2801 | 0.050087 | -0.0561 | 0.03146 | 0.0941 | 0.06216 |
| 50 | 4.1459 | 4.1921 | 4.2485 | 0.037824 | 4.1739 | 4.2245 | 4.2704 | 0.038459 | -0.0701 | 0.03242 | 0.0983 | 0.045208 |

Device Test: 116.2 SW_T_LRC(Rise Time LO VIN_12V)

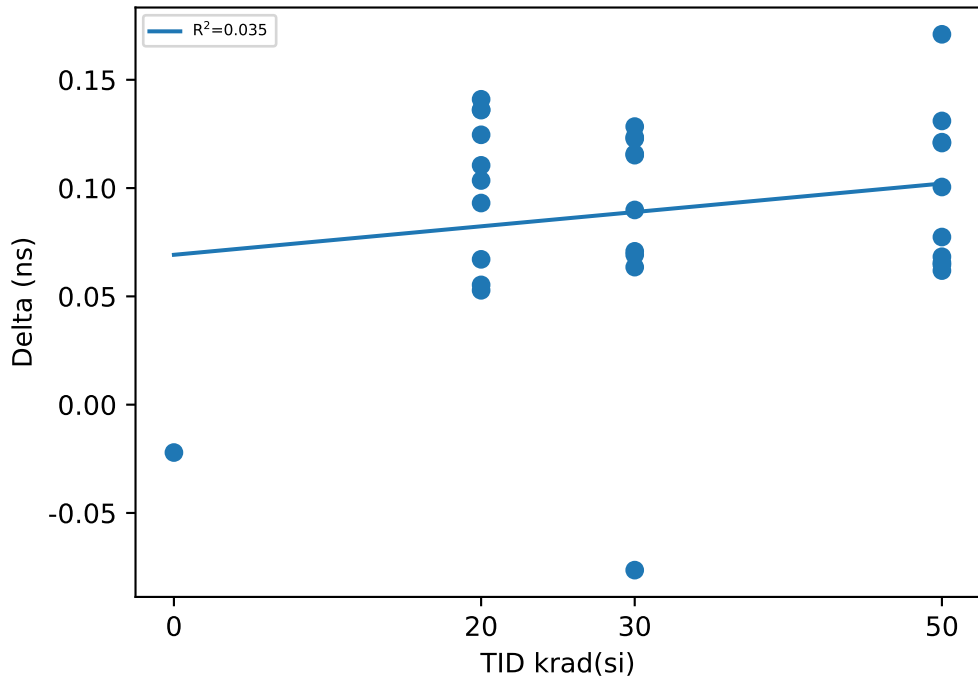
TID vs Result Stats



Test Results (Upper Limit = 7.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.3373 | 3.3152 | -0.0221 |
| 321 | 20 | HDR unbiased | 3.2085 | 3.3447 | 0.1362 |
| 322 | 20 | HDR unbiased | 3.1726 | 3.3136 | 0.141 |
| 323 | 20 | HDR unbiased | 3.2621 | 3.3174 | 0.0553 |
| 324 | 20 | HDR unbiased | 3.2001 | 3.3106 | 0.1105 |
| 325 | 20 | HDR unbiased | 3.2373 | 3.3044 | 0.0671 |
| 331 | 30 | HDR unbiased | 3.2539 | 3.3174 | 0.0635 |
| 332 | 30 | HDR unbiased | 3.2427 | 3.3135 | 0.0708 |
| 333 | 30 | HDR unbiased | 3.2403 | 3.3302 | 0.0899 |
| 334 | 30 | HDR unbiased | 3.1988 | 3.314 | 0.1152 |
| 335 | 30 | HDR unbiased | 3.1865 | 3.3023 | 0.1158 |
| 351 | 50 | HDR unbiased | 3.2442 | 3.3125 | 0.0683 |
| 352 | 50 | HDR unbiased | 3.1765 | 3.3475 | 0.171 |
| 353 | 50 | HDR unbiased | 3.1862 | 3.307 | 0.1208 |
| 354 | 50 | HDR unbiased | 3.2258 | 3.3032 | 0.0774 |
| 355 | 50 | HDR unbiased | 3.1799 | 3.3109 | 0.131 |
| 521 | 20 | HDR biased | 3.1977 | 3.3223 | 0.1246 |
| 522 | 20 | HDR biased | 3.2232 | 3.3267 | 0.1035 |
| 523 | 20 | HDR biased | 3.2616 | 3.3547 | 0.0931 |
| 524 | 20 | HDR biased | 3.2613 | 3.3141 | 0.0528 |
| 525 | 20 | HDR biased | 3.1929 | 3.3289 | 0.136 |
| 531 | 30 | HDR biased | 3.2564 | 3.3256 | 0.0692 |
| 532 | 30 | HDR biased | 3.2552 | 3.1788 | -0.0764 |
| 533 | 30 | HDR biased | 3.1887 | 3.3171 | 0.1284 |
| 534 | 30 | HDR biased | 3.1838 | 3.3066 | 0.1228 |
| 535 | 30 | HDR biased | 3.2141 | 3.3376 | 0.1235 |
| 551 | 50 | HDR biased | 3.2146 | 3.3151 | 0.1005 |
| 552 | 50 | HDR biased | 3.259 | 3.3209 | 0.0619 |
| 553 | 50 | HDR biased | 3.2019 | 3.3231 | 0.1212 |
| 554 | 50 | HDR biased | 3.2545 | 3.3191 | 0.0646 |
| 555 | 50 | HDR biased | 3.2611 | 3.3267 | 0.0656 |

TID vs Post - Pre Exposure Delta

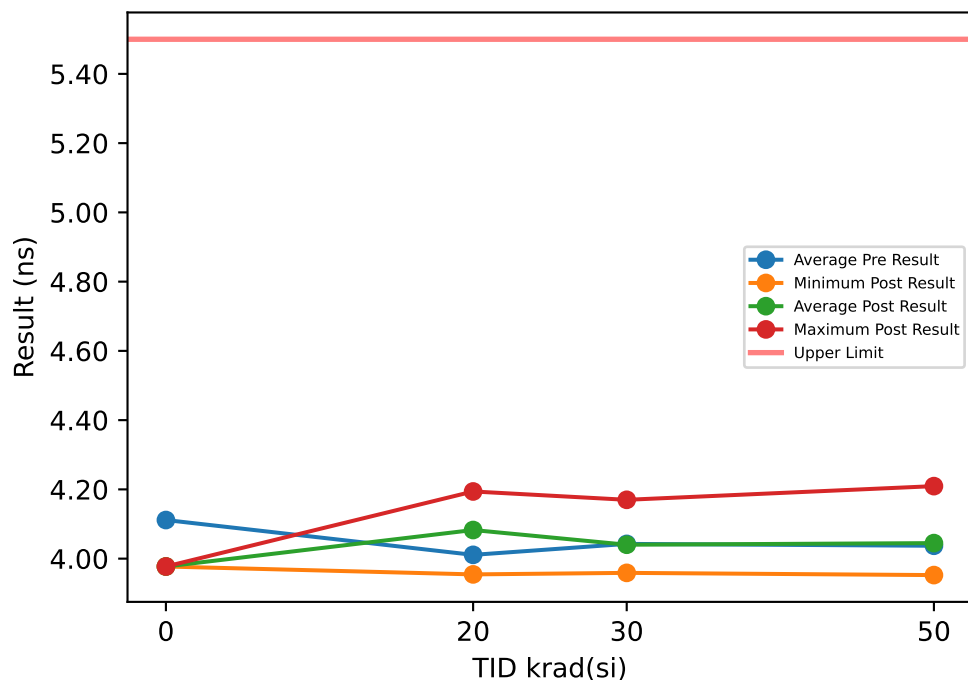


Test Statistics (ns)

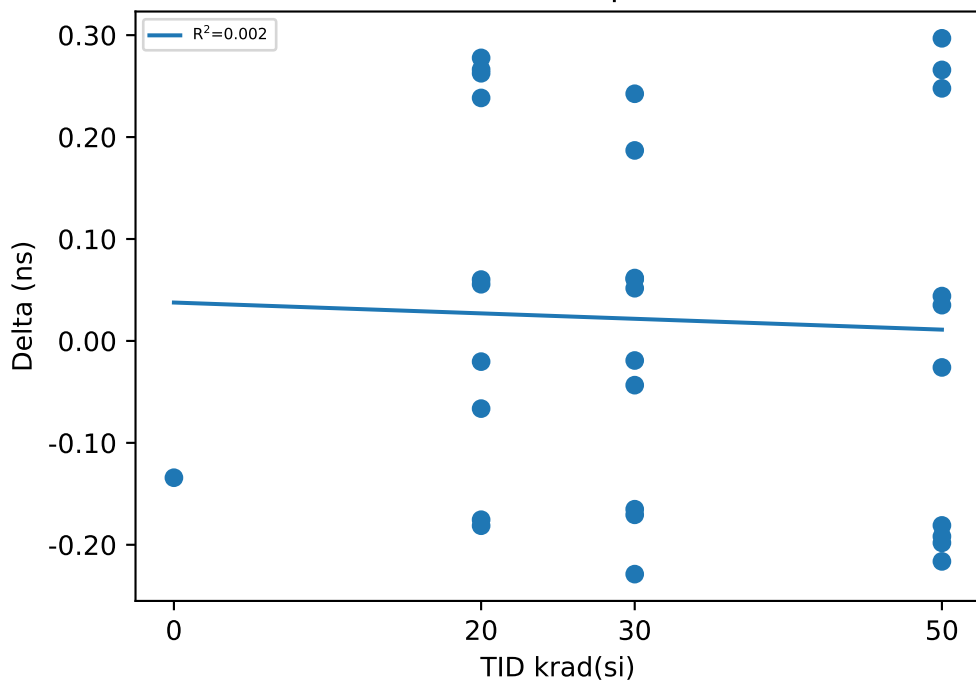
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.3373 | 3.3373 | 3.3373 | | 3.3152 | 3.3152 | 3.3152 | | -0.0221 | -0.0221 | -0.0221 | |
| 20 | 3.1726 | 3.2217 | 3.2621 | 0.032481 | 3.3044 | 3.3237 | 3.3547 | 0.015698 | 0.0528 | 0.10201 | 0.141 | 0.03388 |
| 30 | 3.1838 | 3.222 | 3.2564 | 0.030724 | 3.1788 | 3.3043 | 3.3376 | 0.045347 | -0.0764 | 0.08227 | 0.1284 | 0.061072 |
| 50 | 3.1765 | 3.2204 | 3.2611 | 0.033363 | 3.3032 | 3.3186 | 3.3475 | 0.012504 | 0.0619 | 0.09823 | 0.171 | 0.036903 |

Device Test: 116.3 SW_T_LFC(Fall Time LO VIN_12V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.5 (ns))

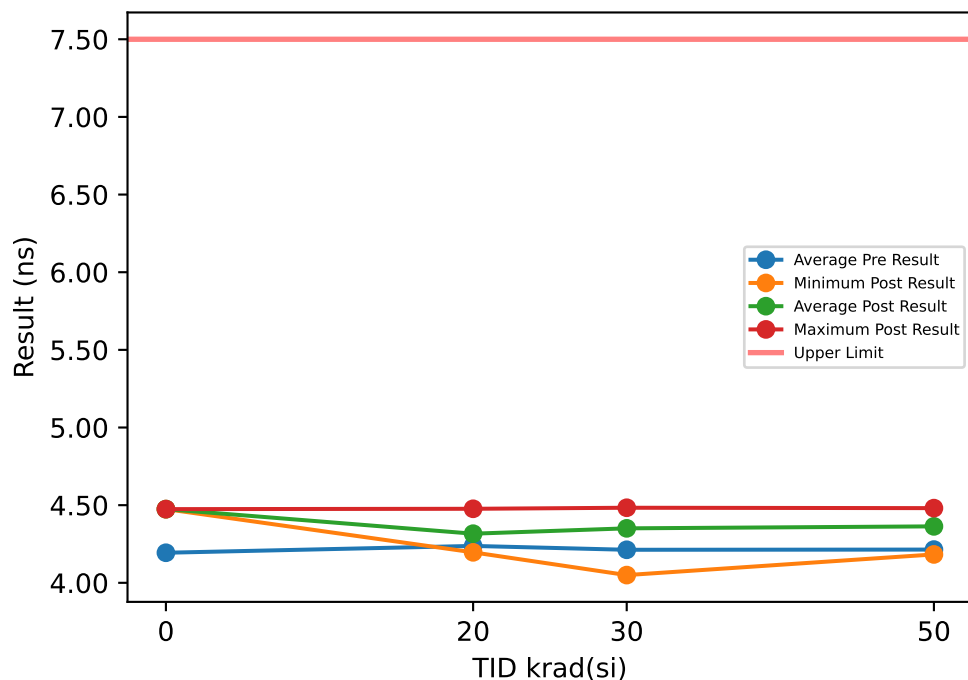
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.1115 | 3.9773 | -0.1342 |
| 321 | 20 | HDR unbiased | 3.9163 | 4.194 | 0.2777 |
| 322 | 20 | HDR unbiased | 3.906 | 4.1723 | 0.2663 |
| 323 | 20 | HDR unbiased | 4.1783 | 4.1119 | -0.0664 |
| 324 | 20 | HDR unbiased | 3.8943 | 3.9545 | 0.0602 |
| 325 | 20 | HDR unbiased | 4.1499 | 3.9686 | -0.1813 |
| 331 | 30 | HDR unbiased | 4.1919 | 3.9631 | -0.2288 |
| 332 | 30 | HDR unbiased | 4.1497 | 3.9791 | -0.1706 |
| 333 | 30 | HDR unbiased | 4.1962 | 4.1528 | -0.0434 |
| 334 | 30 | HDR unbiased | 3.9072 | 3.9589 | 0.0517 |
| 335 | 30 | HDR unbiased | 3.9062 | 3.9667 | 0.0605 |
| 351 | 50 | HDR unbiased | 4.1952 | 3.9789 | -0.2163 |
| 352 | 50 | HDR unbiased | 3.9125 | 4.2094 | 0.2969 |
| 353 | 50 | HDR unbiased | 3.9085 | 3.9525 | 0.044 |
| 354 | 50 | HDR unbiased | 4.1536 | 3.9555 | -0.1981 |
| 355 | 50 | HDR unbiased | 3.8845 | 4.1323 | 0.2478 |
| 521 | 20 | HDR biased | 3.9199 | 4.1583 | 0.2384 |
| 522 | 20 | HDR biased | 3.9237 | 3.9793 | 0.0556 |
| 523 | 20 | HDR biased | 4.1712 | 4.1509 | -0.0203 |
| 524 | 20 | HDR biased | 4.1405 | 3.9651 | -0.1754 |
| 525 | 20 | HDR biased | 3.9091 | 4.1717 | 0.2626 |
| 531 | 30 | HDR biased | 4.1462 | 3.9811 | -0.1651 |
| 532 | 30 | HDR biased | 4.1851 | 4.1659 | -0.0192 |
| 533 | 30 | HDR biased | 3.9014 | 3.9631 | 0.0617 |
| 534 | 30 | HDR biased | 3.9144 | 4.1013 | 0.1869 |
| 535 | 30 | HDR biased | 3.9274 | 4.1699 | 0.2425 |
| 551 | 50 | HDR biased | 3.9232 | 3.9583 | 0.0351 |
| 552 | 50 | HDR biased | 4.1639 | 3.9721 | -0.1918 |
| 553 | 50 | HDR biased | 3.915 | 4.1809 | 0.2659 |
| 554 | 50 | HDR biased | 4.1405 | 3.9595 | -0.181 |
| 555 | 50 | HDR biased | 4.1752 | 4.1492 | -0.026 |

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 | 4.1115 | 4.1115 | 4.1115 | | 3.9773 | 3.9773 | 3.9773 | | -0.1342 | -0.1342 | -0.1342 | |
| 20 | 3.8943 | 4.0109 | 4.1783 | 0.12894 | 3.9545 | 4.0827 | 4.194 | 0.10194 | -0.1813 | 0.07174 | 0.2777 | 0.18182 |
| 30 | 3.9014 | 4.0426 | 4.1962 | 0.13943 | 3.9589 | 4.0402 | 4.1699 | 0.094376 | -0.2288 | -0.00238 | 0.2425 | 0.15448 |
| 50 | 3.8845 | 4.0372 | 4.1952 | 0.13648 | 3.9525 | 4.0449 | 4.2094 | 0.10804 | -0.2163 | 0.00765 | 0.2969 | 0.20524 |

Device Test: 117.0 SW_T_HRC(Rise Time HO VIN_14V)

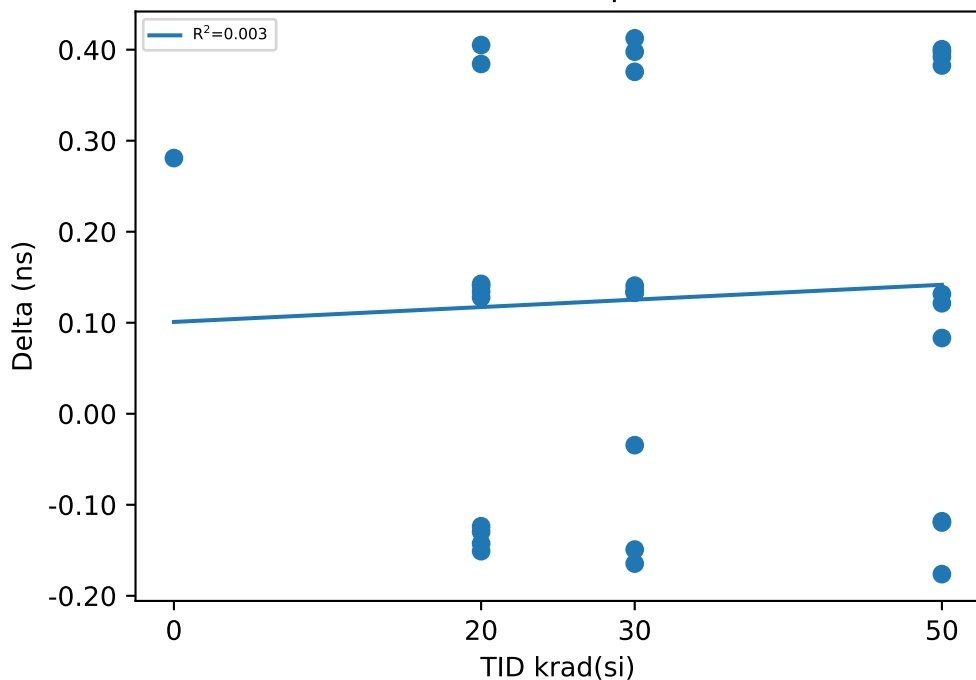
TID vs Result Stats



Test Results (Upper Limit = 7.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.1936 | 4.4745 | 0.2809 |
| 321 | 20 | HDR unbiased | 4.3339 | 4.2103 | -0.1236 |
| 322 | 20 | HDR unbiased | 4.3388 | 4.1963 | -0.1425 |
| 323 | 20 | HDR unbiased | 4.076 | 4.2187 | 0.1427 |
| 324 | 20 | HDR unbiased | 4.3412 | 4.4754 | 0.1342 |
| 325 | 20 | HDR unbiased | 4.0645 | 4.4696 | 0.4051 |
| 331 | 30 | HDR unbiased | 4.0905 | 4.4662 | 0.3757 |
| 332 | 30 | HDR unbiased | 4.0806 | 4.4784 | 0.3978 |
| 333 | 30 | HDR unbiased | 4.0811 | 4.2141 | 0.133 |
| 334 | 30 | HDR unbiased | 4.3339 | 4.4747 | 0.1408 |
| 335 | 30 | HDR unbiased | 4.3451 | 4.4808 | 0.1357 |
| 351 | 50 | HDR unbiased | 4.0936 | 4.4762 | 0.3826 |
| 352 | 50 | HDR unbiased | 4.3184 | 4.1989 | -0.1195 |
| 353 | 50 | HDR unbiased | 4.3402 | 4.4717 | 0.1315 |
| 354 | 50 | HDR unbiased | 4.0835 | 4.4809 | 0.3974 |
| 355 | 50 | HDR unbiased | 4.3222 | 4.2041 | -0.1181 |
| 521 | 20 | HDR biased | 4.3563 | 4.2053 | -0.151 |
| 522 | 20 | HDR biased | 4.3447 | 4.4724 | 0.1277 |
| 523 | 20 | HDR biased | 4.0821 | 4.2225 | 0.1404 |
| 524 | 20 | HDR biased | 4.0924 | 4.4767 | 0.3843 |
| 525 | 20 | HDR biased | 4.3463 | 4.2165 | -0.1298 |
| 531 | 30 | HDR biased | 4.0709 | 4.4834 | 0.4125 |
| 532 | 30 | HDR biased | 4.0843 | 4.0498 | -0.0345 |
| 533 | 30 | HDR biased | 4.3332 | 4.4664 | 0.1332 |
| 534 | 30 | HDR biased | 4.3575 | 4.1929 | -0.1646 |
| 535 | 30 | HDR biased | 4.3504 | 4.2012 | -0.1492 |
| 551 | 50 | HDR biased | 4.3593 | 4.4807 | 0.1214 |
| 552 | 50 | HDR biased | 4.0887 | 4.4807 | 0.392 |
| 553 | 50 | HDR biased | 4.359 | 4.1828 | -0.1762 |
| 554 | 50 | HDR biased | 4.0755 | 4.476 | 0.4005 |
| 555 | 50 | HDR biased | 4.1 | 4.1832 | 0.0832 |

TID vs Post - Pre Exposure Delta

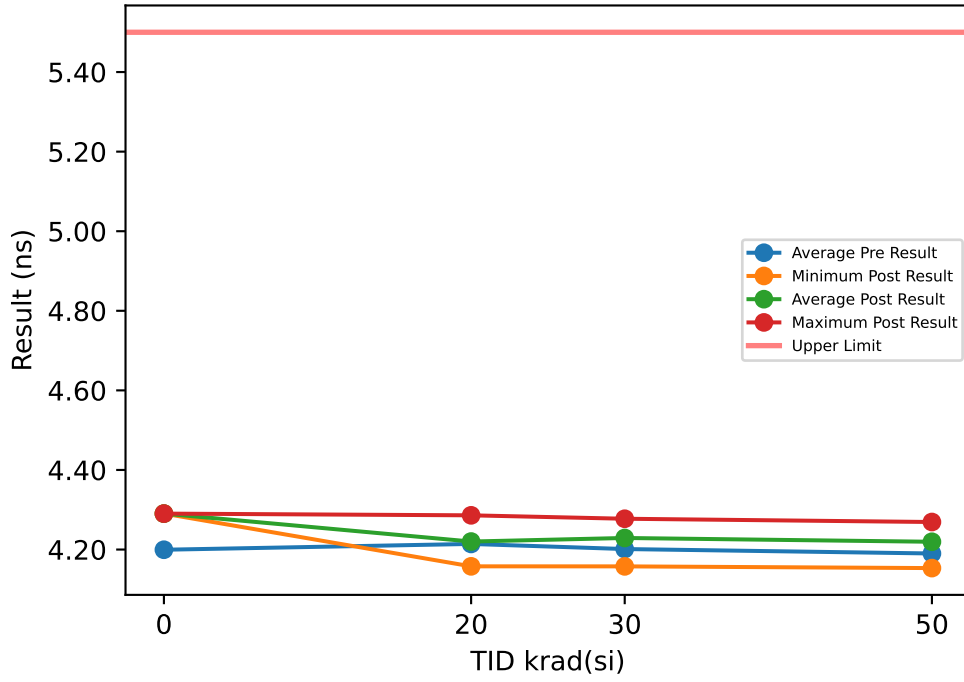


Test Statistics (ns)

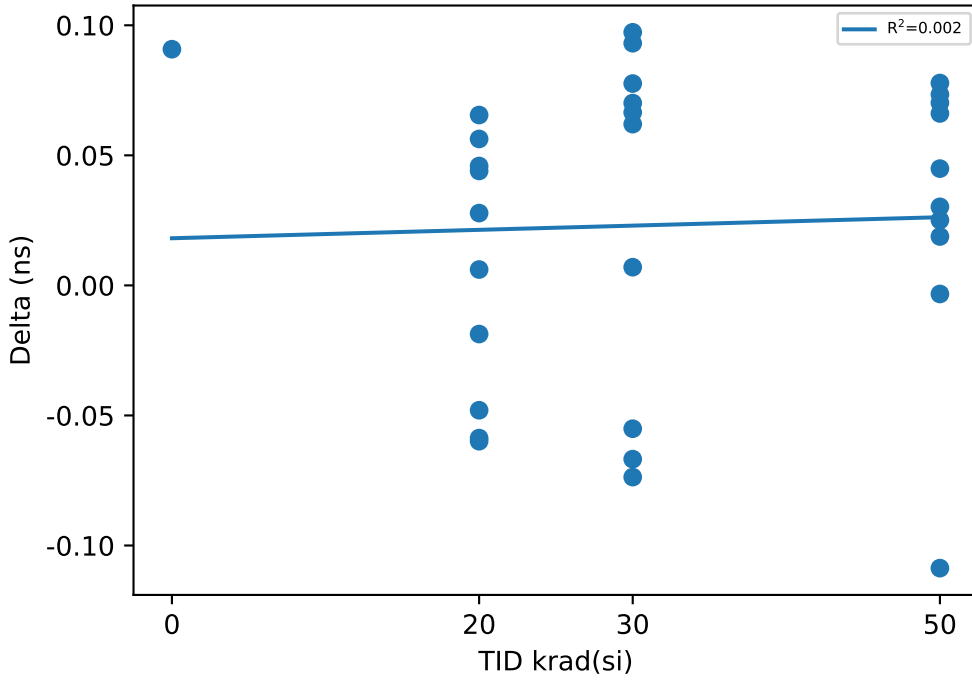
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.1936 | 4.1936 | 4.1936 | | 4.4745 | 4.4745 | 4.4745 | | 0.2809 | 0.2809 | 0.2809 | |
| 20 | 4.0645 | 4.2376 | 4.3563 | 0.13702 | 4.1963 | 4.3164 | 4.4767 | 0.13546 | -0.151 | 0.07875 | 0.4051 | 0.21066 |
| 30 | 4.0709 | 4.2127 | 4.3575 | 0.13863 | 4.0498 | 4.3508 | 4.4834 | 0.16647 | -0.1646 | 0.13804 | 0.4125 | 0.21166 |
| 50 | 4.0755 | 4.214 | 4.3593 | 0.13336 | 4.1828 | 4.3635 | 4.4809 | 0.14757 | -0.1762 | 0.14948 | 0.4005 | 0.23408 |

Device Test: 117.1 SW_T_HFC(Fall Time HO VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.5 (ns))

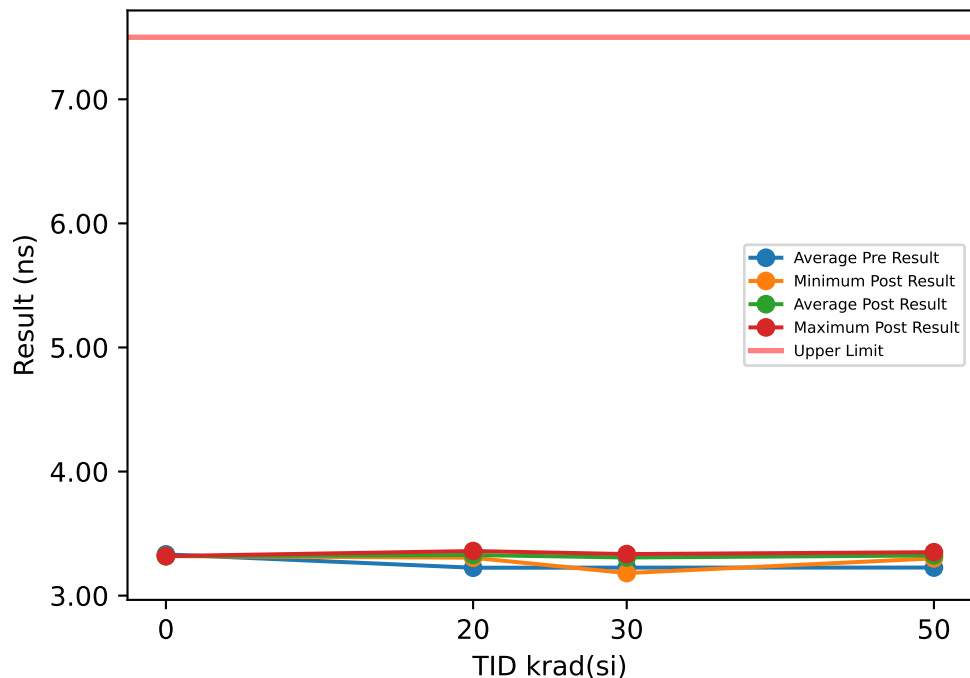
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.1995 | 4.2903 | 0.0908 |
| 321 | 20 | HDR unbiased | 4.2352 | 4.1872 | -0.048 |
| 322 | 20 | HDR unbiased | 4.1765 | 4.1578 | -0.0187 |
| 323 | 20 | HDR unbiased | 4.1606 | 4.1667 | 0.0061 |
| 324 | 20 | HDR unbiased | 4.2297 | 4.286 | 0.0563 |
| 325 | 20 | HDR unbiased | 4.2136 | 4.2576 | 0.044 |
| 331 | 30 | HDR unbiased | 4.1949 | 4.2614 | 0.0665 |
| 332 | 30 | HDR unbiased | 4.1897 | 4.2673 | 0.0776 |
| 333 | 30 | HDR unbiased | 4.1561 | 4.1631 | 0.007 |
| 334 | 30 | HDR unbiased | 4.2139 | 4.2759 | 0.062 |
| 335 | 30 | HDR unbiased | 4.2073 | 4.2774 | 0.0701 |
| 351 | 50 | HDR unbiased | 4.1618 | 4.2279 | 0.0661 |
| 352 | 50 | HDR unbiased | 4.1644 | 4.2093 | 0.0449 |
| 353 | 50 | HDR unbiased | 4.2282 | 4.2533 | 0.0251 |
| 354 | 50 | HDR unbiased | 4.1914 | 4.2692 | 0.0778 |
| 355 | 50 | HDR unbiased | 4.1477 | 4.1779 | 0.0302 |
| 521 | 20 | HDR biased | 4.2635 | 4.2048 | -0.0587 |
| 522 | 20 | HDR biased | 4.2506 | 4.2784 | 0.0278 |
| 523 | 20 | HDR biased | 4.1709 | 4.2168 | 0.0459 |
| 524 | 20 | HDR biased | 4.1971 | 4.2626 | 0.0655 |
| 525 | 20 | HDR biased | 4.2432 | 4.1833 | -0.0599 |
| 531 | 30 | HDR biased | 4.1568 | 4.2541 | 0.0973 |
| 532 | 30 | HDR biased | 4.1559 | 4.249 | 0.0931 |
| 533 | 30 | HDR biased | 4.2624 | 4.2073 | -0.0551 |
| 534 | 30 | HDR biased | 4.2511 | 4.1774 | -0.0737 |
| 535 | 30 | HDR biased | 4.2245 | 4.1577 | -0.0668 |
| 551 | 50 | HDR biased | 4.2429 | 4.2617 | 0.0188 |
| 552 | 50 | HDR biased | 4.1614 | 4.2316 | 0.0702 |
| 553 | 50 | HDR biased | 4.2621 | 4.1534 | -0.1087 |
| 554 | 50 | HDR biased | 4.1733 | 4.2467 | 0.0734 |
| 555 | 50 | HDR biased | 4.1678 | 4.1645 | -0.0033 |

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 | 4.1995 | 4.1995 | 4.1995 | | 4.2903 | 4.2903 | 4.2903 | | 0.0908 | 0.0908 | 0.0908 | |
| 20 | 4.1606 | 4.2141 | 4.2635 | 0.036116 | 4.1578 | 4.2201 | 4.286 | 0.047573 | -0.0599 | 0.00603 | 0.0655 | 0.049031 |
| 30 | 4.1559 | 4.2013 | 4.2624 | 0.038306 | 4.1577 | 4.2291 | 4.2774 | 0.047899 | -0.0737 | 0.0278 | 0.0973 | 0.068789 |
| 50 | 4.1477 | 4.1901 | 4.2621 | 0.039843 | 4.1534 | 4.2195 | 4.2692 | 0.041605 | -0.1087 | 0.02945 | 0.0778 | 0.05558 |

Device Test: 117.2 SW_T_LRC(Rise Time LO VIN_14V)

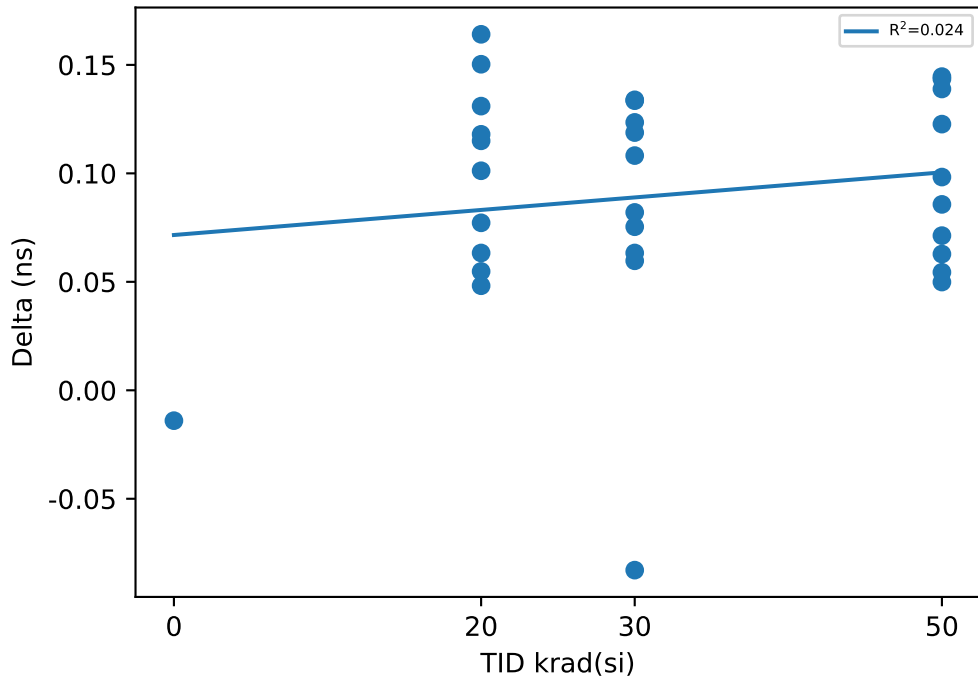
TID vs Result Stats



Test Results (Upper Limit = 7.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.3326 | 3.3186 | -0.014 |
| 321 | 20 | HDR unbiased | 3.1922 | 3.3425 | 0.1503 |
| 322 | 20 | HDR unbiased | 3.184 | 3.315 | 0.131 |
| 323 | 20 | HDR unbiased | 3.2598 | 3.337 | 0.0772 |
| 324 | 20 | HDR unbiased | 3.2043 | 3.3055 | 0.1012 |
| 325 | 20 | HDR unbiased | 3.254 | 3.3088 | 0.0548 |
| 331 | 30 | HDR unbiased | 3.2548 | 3.3181 | 0.0633 |
| 332 | 30 | HDR unbiased | 3.2439 | 3.3193 | 0.0754 |
| 333 | 30 | HDR unbiased | 3.2529 | 3.3349 | 0.082 |
| 334 | 30 | HDR unbiased | 3.2016 | 3.3098 | 0.1082 |
| 335 | 30 | HDR unbiased | 3.1683 | 3.3018 | 0.1335 |
| 351 | 50 | HDR unbiased | 3.2485 | 3.3113 | 0.0628 |
| 352 | 50 | HDR unbiased | 3.192 | 3.3366 | 0.1446 |
| 353 | 50 | HDR unbiased | 3.2019 | 3.3002 | 0.0983 |
| 354 | 50 | HDR unbiased | 3.2367 | 3.308 | 0.0713 |
| 355 | 50 | HDR unbiased | 3.1839 | 3.3274 | 0.1435 |
| 521 | 20 | HDR biased | 3.2123 | 3.3273 | 0.115 |
| 522 | 20 | HDR biased | 3.2103 | 3.3283 | 0.118 |
| 523 | 20 | HDR biased | 3.271 | 3.3343 | 0.0633 |
| 524 | 20 | HDR biased | 3.2652 | 3.3134 | 0.0482 |
| 525 | 20 | HDR biased | 3.1953 | 3.3594 | 0.1641 |
| 531 | 30 | HDR biased | 3.2636 | 3.3233 | 0.0597 |
| 532 | 30 | HDR biased | 3.2646 | 3.1817 | -0.0829 |
| 533 | 30 | HDR biased | 3.1988 | 3.3176 | 0.1188 |
| 534 | 30 | HDR biased | 3.1979 | 3.3318 | 0.1339 |
| 535 | 30 | HDR biased | 3.2113 | 3.3348 | 0.1235 |
| 551 | 50 | HDR biased | 3.2009 | 3.3236 | 0.1227 |
| 552 | 50 | HDR biased | 3.2693 | 3.3192 | 0.0499 |
| 553 | 50 | HDR biased | 3.204 | 3.3429 | 0.1389 |
| 554 | 50 | HDR biased | 3.2606 | 3.315 | 0.0544 |
| 555 | 50 | HDR biased | 3.2643 | 3.35 | 0.0857 |

TID vs Post - Pre Exposure Delta

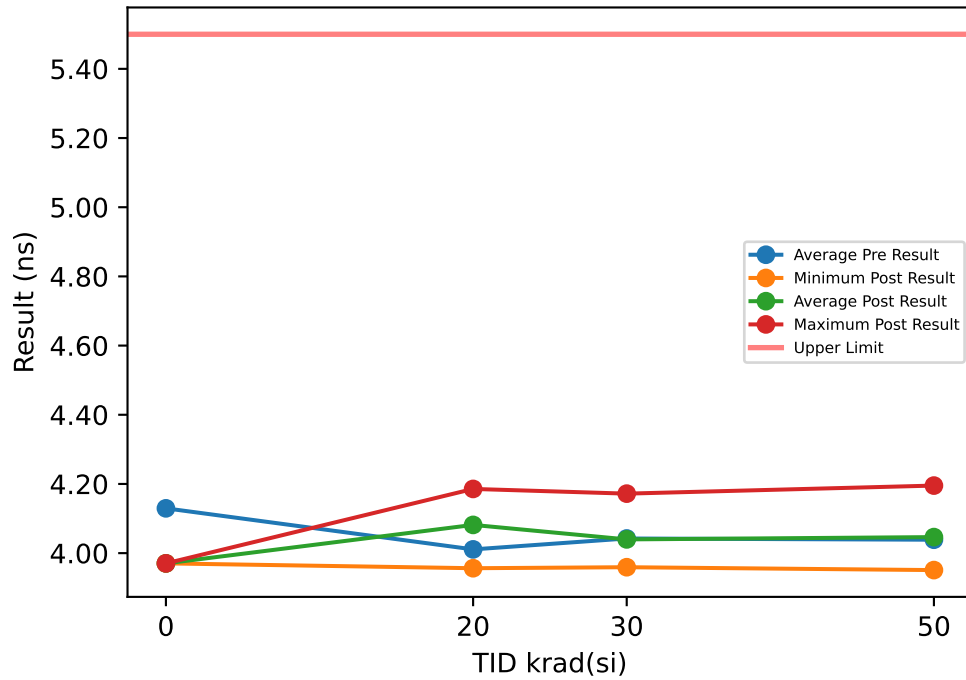


Test Statistics (ns)

| 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 | 3.3326 | 3.3326 | 3.3326 | | 3.3186 | 3.3186 | 3.3186 | | -0.014 | -0.014 | -0.014 | |
| 20 | 3.184 | 3.2248 | 3.271 | 0.033712 | 3.3055 | 3.3272 | 3.3594 | 0.01689 | 0.0482 | 0.10231 | 0.1641 | 0.040401 |
| 30 | 3.1683 | 3.2258 | 3.2646 | 0.03407 | 3.1817 | 3.3073 | 3.3349 | 0.045403 | -0.0829 | 0.08154 | 0.1339 | 0.064282 |
| 50 | 3.1839 | 3.2262 | 3.2693 | 0.032969 | 3.3002 | 3.3234 | 3.35 | 0.015945 | 0.0499 | 0.09721 | 0.1446 | 0.037766 |

Device Test: 117.3 SW_T_LFC(Fall Time LO VIN_14V)

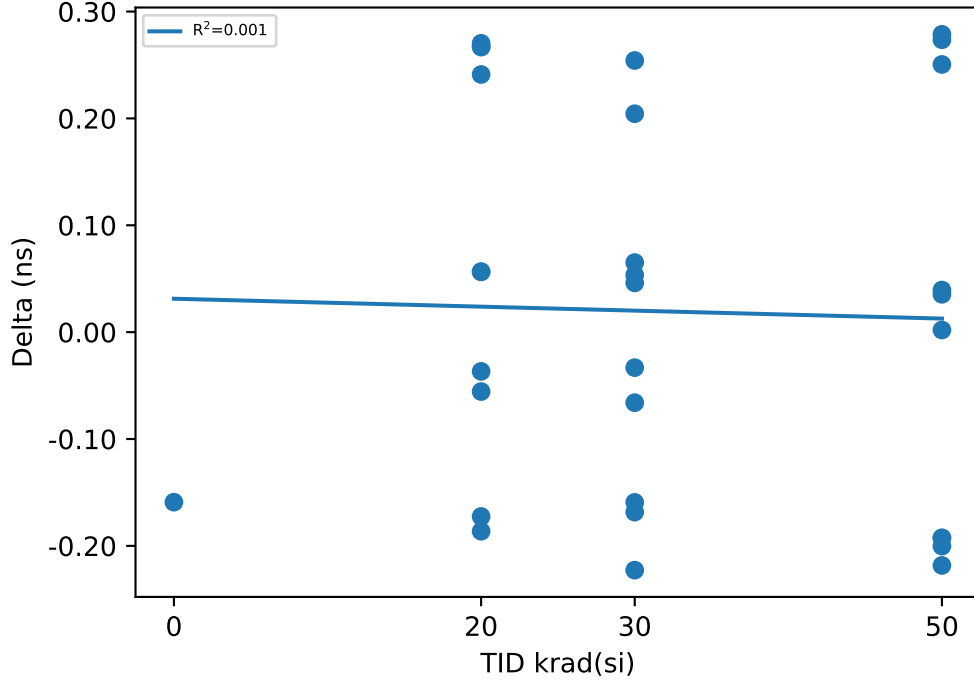
TID vs Result Stats



Test Results (Upper Limit = 5.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.1295 | 3.9704 | -0.1591 |
| 321 | 20 | HDR unbiased | 3.9057 | 4.1724 | 0.2667 |
| 322 | 20 | HDR unbiased | 3.9011 | 4.1714 | 0.2703 |
| 323 | 20 | HDR unbiased | 4.185 | 4.1294 | -0.0556 |
| 324 | 20 | HDR unbiased | 3.9 | 3.9564 | 0.0564 |
| 325 | 20 | HDR unbiased | 4.139 | 3.9665 | -0.1725 |
| 331 | 30 | HDR unbiased | 4.182 | 3.9593 | -0.2227 |
| 332 | 30 | HDR unbiased | 4.1388 | 3.9795 | -0.1593 |
| 333 | 30 | HDR unbiased | 4.201 | 4.135 | -0.066 |
| 334 | 30 | HDR unbiased | 3.9133 | 3.9594 | 0.0461 |
| 335 | 30 | HDR unbiased | 3.9026 | 3.9677 | 0.0651 |
| 351 | 50 | HDR unbiased | 4.1953 | 3.977 | -0.2183 |
| 352 | 50 | HDR unbiased | 3.9063 | 4.1799 | 0.2736 |
| 353 | 50 | HDR unbiased | 3.9156 | 3.951 | 0.0354 |
| 354 | 50 | HDR unbiased | 4.1512 | 3.951 | -0.2002 |
| 355 | 50 | HDR unbiased | 3.8936 | 4.1441 | 0.2505 |
| 521 | 20 | HDR biased | 3.9232 | 4.1643 | 0.2411 |
| 522 | 20 | HDR biased | 3.9237 | 3.9803 | 0.0566 |
| 523 | 20 | HDR biased | 4.1663 | 4.1296 | -0.0367 |
| 524 | 20 | HDR biased | 4.1463 | 3.96 | -0.1863 |
| 525 | 20 | HDR biased | 3.9181 | 4.1856 | 0.2675 |
| 531 | 30 | HDR biased | 4.1509 | 3.9825 | -0.1684 |
| 532 | 30 | HDR biased | 4.1886 | 4.1554 | -0.0332 |
| 533 | 30 | HDR biased | 3.9104 | 3.9639 | 0.0535 |
| 534 | 30 | HDR biased | 3.9181 | 4.1225 | 0.2044 |
| 535 | 30 | HDR biased | 3.9178 | 4.172 | 0.2542 |
| 551 | 50 | HDR biased | 3.922 | 3.9614 | 0.0394 |
| 552 | 50 | HDR biased | 4.1673 | 3.9748 | -0.1925 |
| 553 | 50 | HDR biased | 3.9166 | 4.1953 | 0.2787 |
| 554 | 50 | HDR biased | 4.1473 | 3.9546 | -0.1927 |
| 555 | 50 | HDR biased | 4.1725 | 4.1745 | 0.002 |

TID vs Post - Pre Exposure Delta

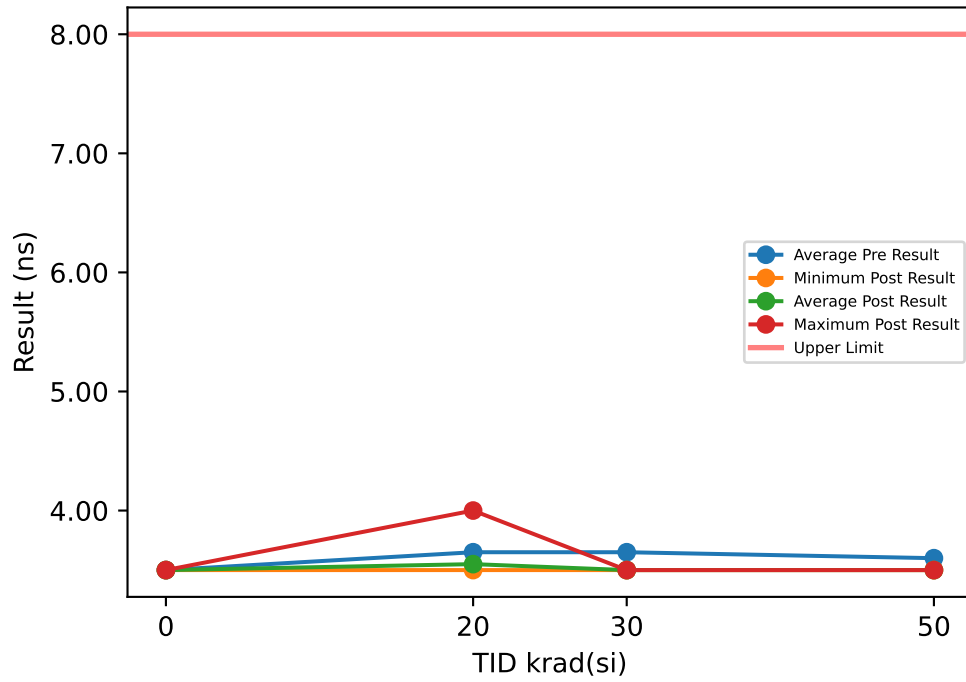


Test Statistics (ns)

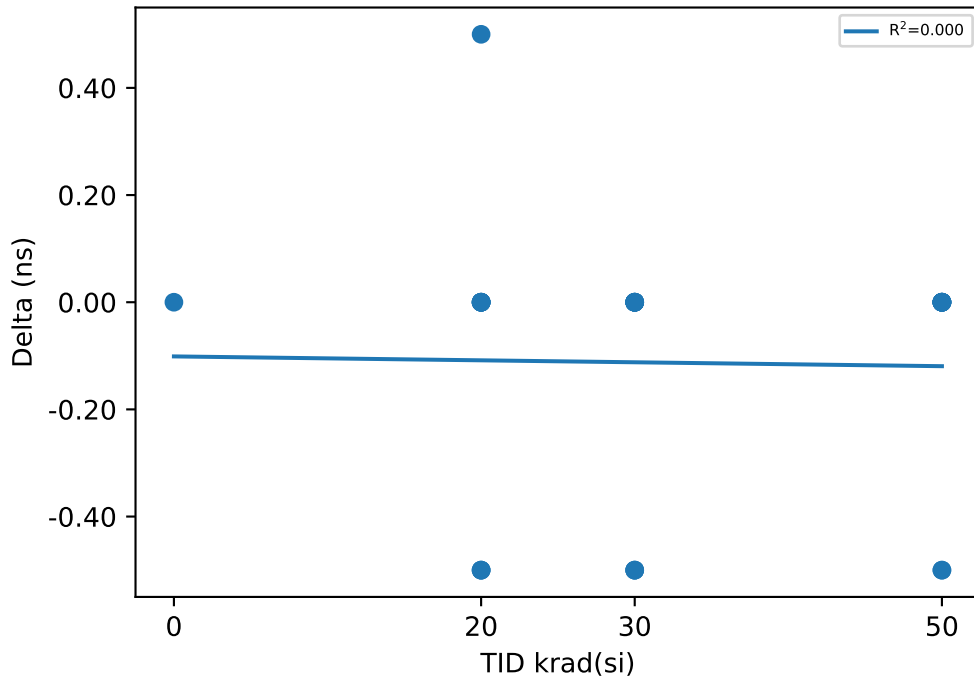
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.1295 | 4.1295 | 4.1295 | | 3.9704 | 3.9704 | 3.9704 | | -0.1591 | -0.1591 | -0.1591 | |
| 20 | 3.9 | 4.0108 | 4.185 | 0.12847 | 3.9564 | 4.0816 | 4.1856 | 0.10139 | -0.1863 | 0.07075 | 0.2703 | 0.1823 |
| 30 | 3.9026 | 4.0423 | 4.201 | 0.13812 | 3.9593 | 4.0397 | 4.172 | 0.092835 | -0.2227 | -0.00263 | 0.2542 | 0.15788 |
| 50 | 3.8936 | 4.0388 | 4.1953 | 0.13568 | 3.951 | 4.0464 | 4.1953 | 0.11043 | -0.2183 | 0.00759 | 0.2787 | 0.20533 |

Device Test: 120.0 SW_T_PW_MIN(_Min Input PW Static HS Turn On VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 8.0 (ns))

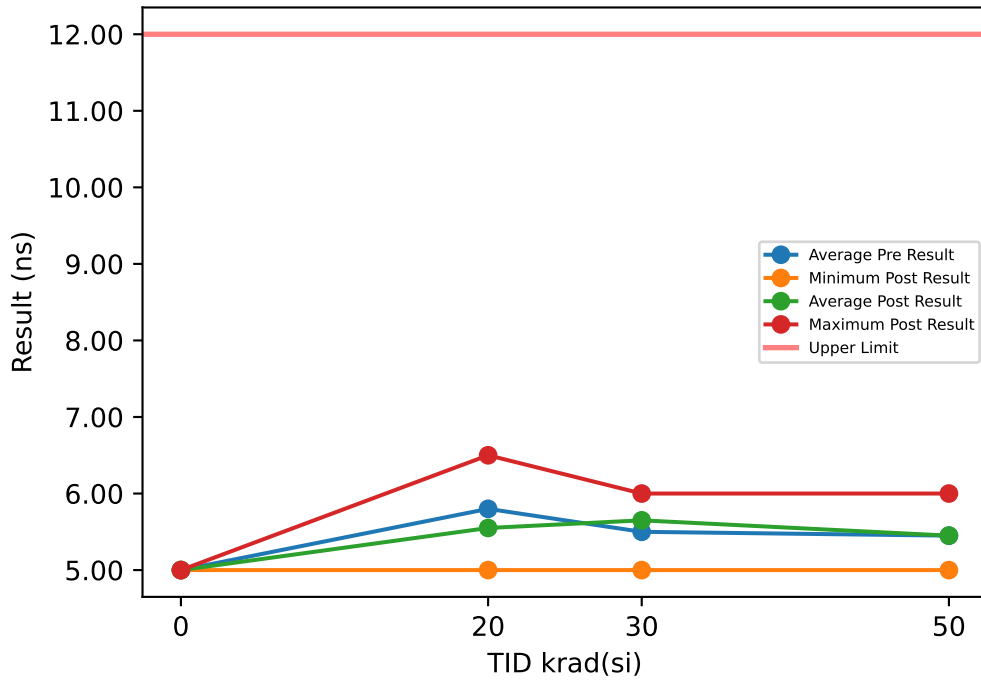
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 4 | 3.5 | -0.5 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 4 | 3.5 | -0.5 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 4 | 3.5 | -0.5 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 524 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 525 | 20 | HDR biased | 3.5 | 4 | 0.5 |
| 531 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 532 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 4 | 3.5 | -0.5 |

Test Statistics (ns)

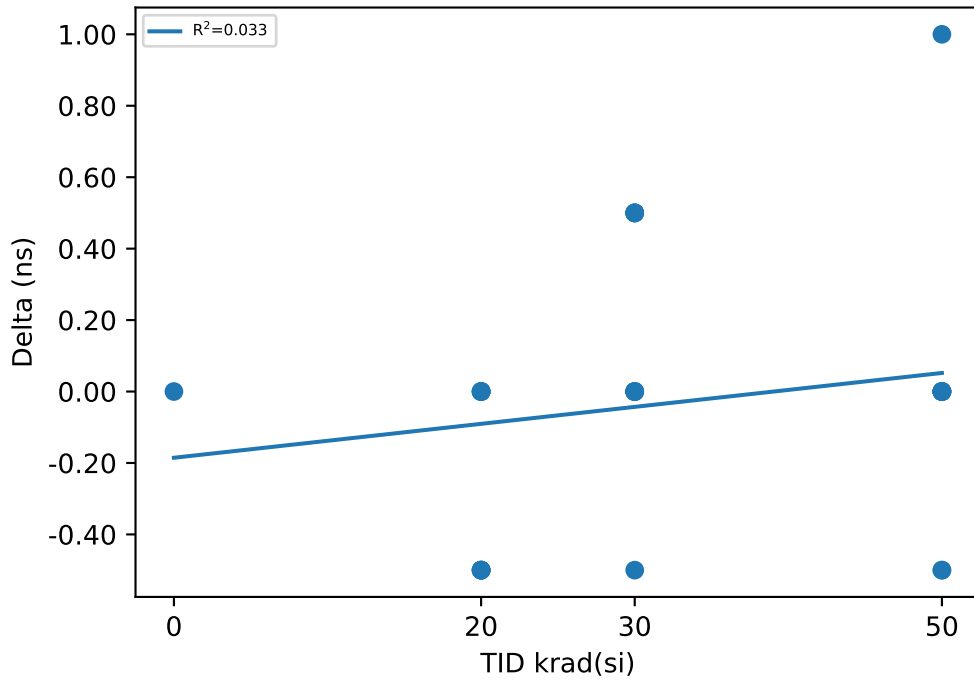
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.55 | 4 | 0.15811 | -0.5 | -0.1 | 0.5 | 0.31623 |
| 30 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.15 | 0 | 0.24152 |
| 50 | 3.5 | 3.6 | 4 | 0.21082 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.1 | 0 | 0.21082 |

Device Test: 120.1 SW_T_PW_MIN_OFF(_Min Input PW Static HS Turn Off VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 12.0 (ns))

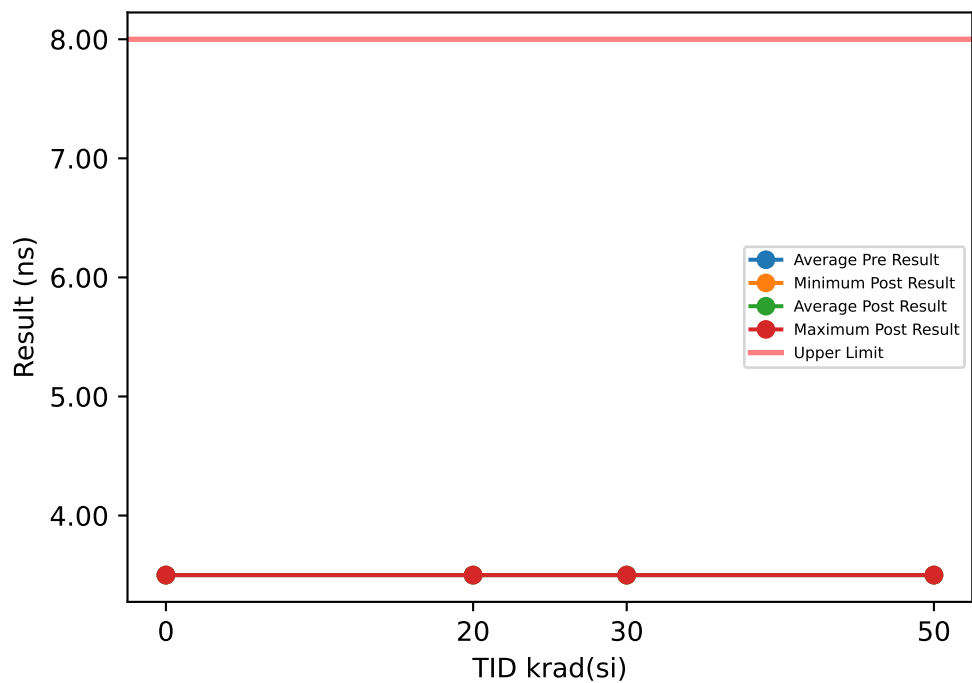
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 5 | 5 | 0 |
| 321 | 20 | HDR unbiased | 6 | 6 | 0 |
| 322 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 323 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 324 | 20 | HDR unbiased | 5.5 | 5.5 | 0 |
| 325 | 20 | HDR unbiased | 6.5 | 6.5 | 0 |
| 331 | 30 | HDR unbiased | 5.5 | 6 | 0.5 |
| 332 | 30 | HDR unbiased | 5 | 5 | 0 |
| 333 | 30 | HDR unbiased | 6 | 6 | 0 |
| 334 | 30 | HDR unbiased | 5 | 5.5 | 0.5 |
| 335 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 351 | 50 | HDR unbiased | 6 | 6 | 0 |
| 352 | 50 | HDR unbiased | 5.5 | 5.5 | 0 |
| 353 | 50 | HDR unbiased | 6 | 6 | 0 |
| 354 | 50 | HDR unbiased | 5 | 6 | 1 |
| 355 | 50 | HDR unbiased | 5.5 | 5 | -0.5 |
| 521 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 522 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 523 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 524 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 525 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 531 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 532 | 30 | HDR biased | 6 | 6 | 0 |
| 533 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 534 | 30 | HDR biased | 5.5 | 5 | -0.5 |
| 535 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 551 | 50 | HDR biased | 5 | 5 | 0 |
| 552 | 50 | HDR biased | 5 | 5 | 0 |
| 553 | 50 | HDR biased | 5.5 | 5 | -0.5 |
| 554 | 50 | HDR biased | 5.5 | 5.5 | 0 |
| 555 | 50 | HDR biased | 5.5 | 5.5 | 0 |

Test Statistics (ns)

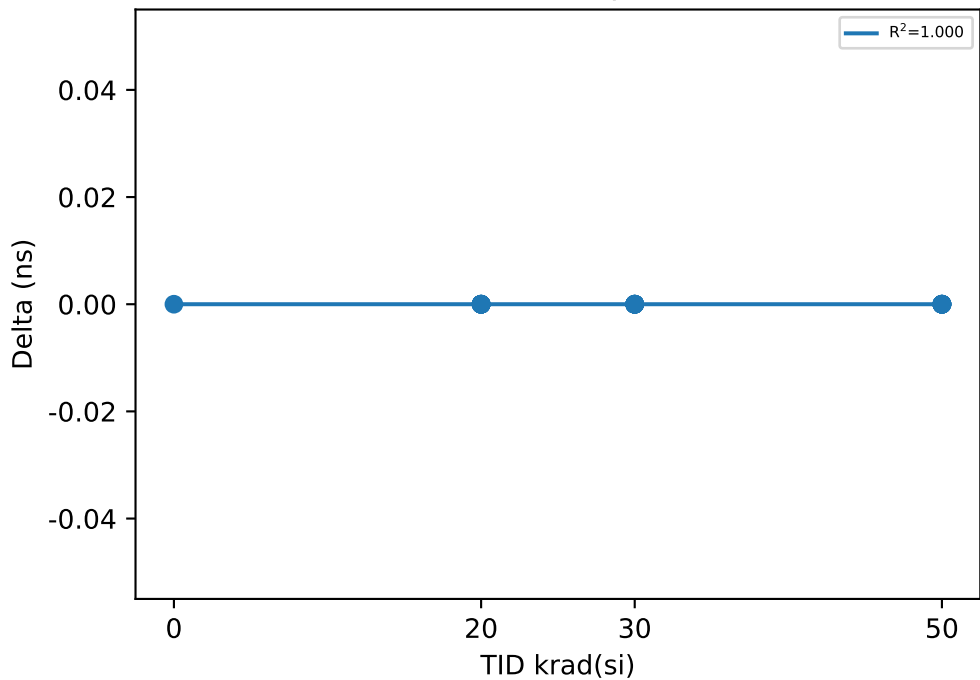
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5 | 5 | 5 | | 5 | 5 | 5 | | 0 | 0 | 0 | |
| 20 | 5.5 | 5.8 | 6.5 | 0.3496 | 5 | 5.55 | 6.5 | 0.4378 | -0.5 | -0.25 | 0 | 0.26352 |
| 30 | 5 | 5.5 | 6 | 0.33333 | 5 | 5.65 | 6 | 0.41164 | -0.5 | 0.15 | 0.5 | 0.33747 |
| 50 | 5 | 5.45 | 6 | 0.36893 | 5 | 5.45 | 6 | 0.4378 | -0.5 | 0 | 1 | 0.40825 |

Device Test: 120.2 SW_T_PW_MIN(_Min Input PW Static LS Turn On VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 8.0 (ns))

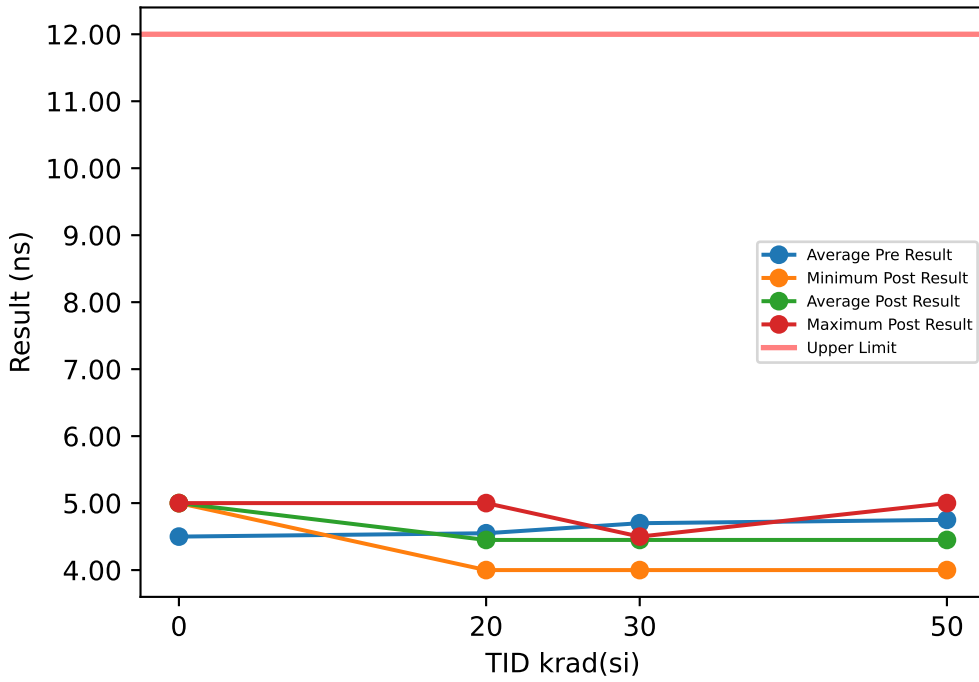
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 524 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 525 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 531 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 532 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 3.5 | 3.5 | 0 |

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 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |
| 30 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |
| 50 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |

Device Test: 120.3 SW_T_PW_MIN_OFF(_Min Input PW Static LS Turn Off VIN_10V)

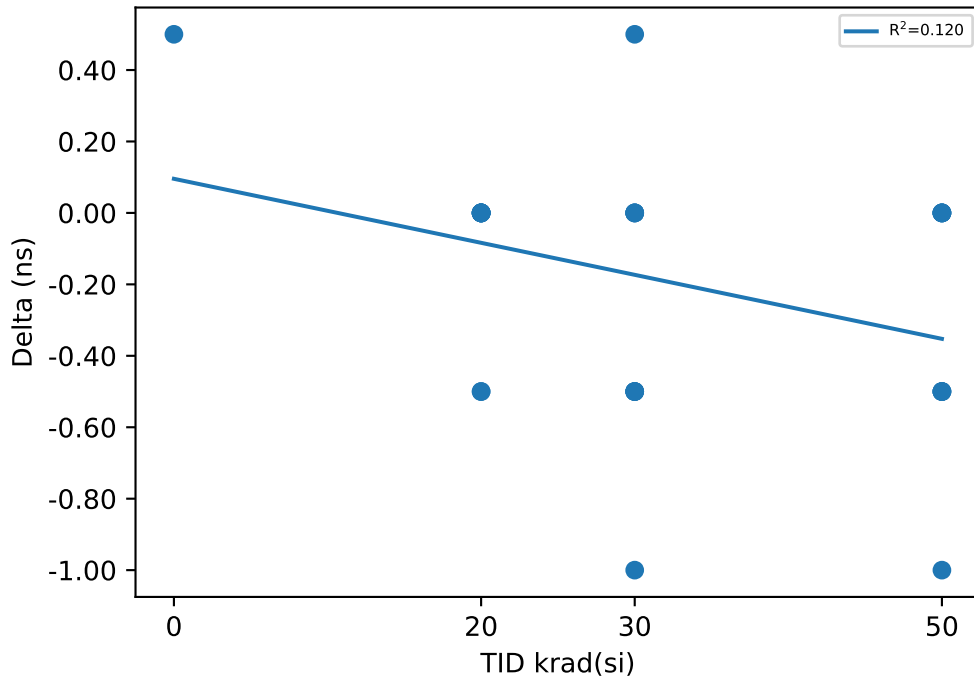
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 4.5 | 5 | 0.5 |
| 321 | 20 | HDR unbiased | 4.5 | 4.5 | 0 |
| 322 | 20 | HDR unbiased | 4.5 | 4.5 | 0 |
| 323 | 20 | HDR unbiased | 5 | 5 | 0 |
| 324 | 20 | HDR unbiased | 5 | 5 | 0 |
| 325 | 20 | HDR unbiased | 4.5 | 4 | -0.5 |
| 331 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 332 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 333 | 30 | HDR unbiased | 4.5 | 4.5 | 0 |
| 334 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 335 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 351 | 50 | HDR unbiased | 5 | 4.5 | -0.5 |
| 352 | 50 | HDR unbiased | 5 | 5 | 0 |
| 353 | 50 | HDR unbiased | 5 | 4.5 | -0.5 |
| 354 | 50 | HDR unbiased | 5 | 4 | -1 |
| 355 | 50 | HDR unbiased | 4.5 | 4.5 | 0 |
| 521 | 20 | HDR biased | 4 | 4 | 0 |
| 522 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 523 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 524 | 20 | HDR biased | 4.5 | 4 | -0.5 |
| 525 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 531 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 532 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 533 | 30 | HDR biased | 5 | 4 | -1 |
| 534 | 30 | HDR biased | 4 | 4.5 | 0.5 |
| 535 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 551 | 50 | HDR biased | 4.5 | 4.5 | 0 |
| 552 | 50 | HDR biased | 4.5 | 4 | -0.5 |
| 553 | 50 | HDR biased | 4.5 | 4.5 | 0 |
| 554 | 50 | HDR biased | 4.5 | 4 | -0.5 |
| 555 | 50 | HDR biased | 5 | 5 | 0 |

TID vs Post - Pre Exposure Delta

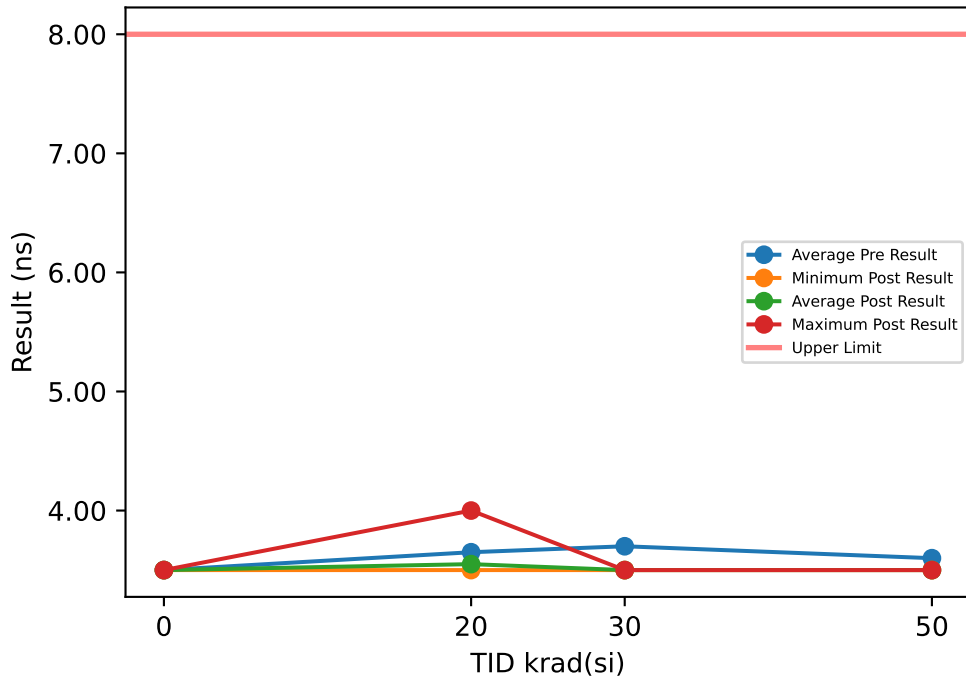


Test Statistics (ns)

| 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 | 4.5 | 4.5 | 4.5 | | 5 | 5 | 5 | | 0.5 | 0.5 | 0.5 | |
| 20 | 4 | 4.55 | 5 | 0.28382 | 4 | 4.45 | 5 | 0.36893 | -0.5 | -0.1 | 0 | 0.21082 |
| 30 | 4 | 4.7 | 5 | 0.3496 | 4 | 4.45 | 4.5 | 0.15811 | -1 | -0.25 | 0.5 | 0.42492 |
| 50 | 4.5 | 4.75 | 5 | 0.26352 | 4 | 4.45 | 5 | 0.36893 | -1 | -0.3 | 0 | 0.3496 |

Device Test: 120.4 SW_T_PW_MIN(_Min Input PW Static HS Turn On SW=12V VIN_10V)

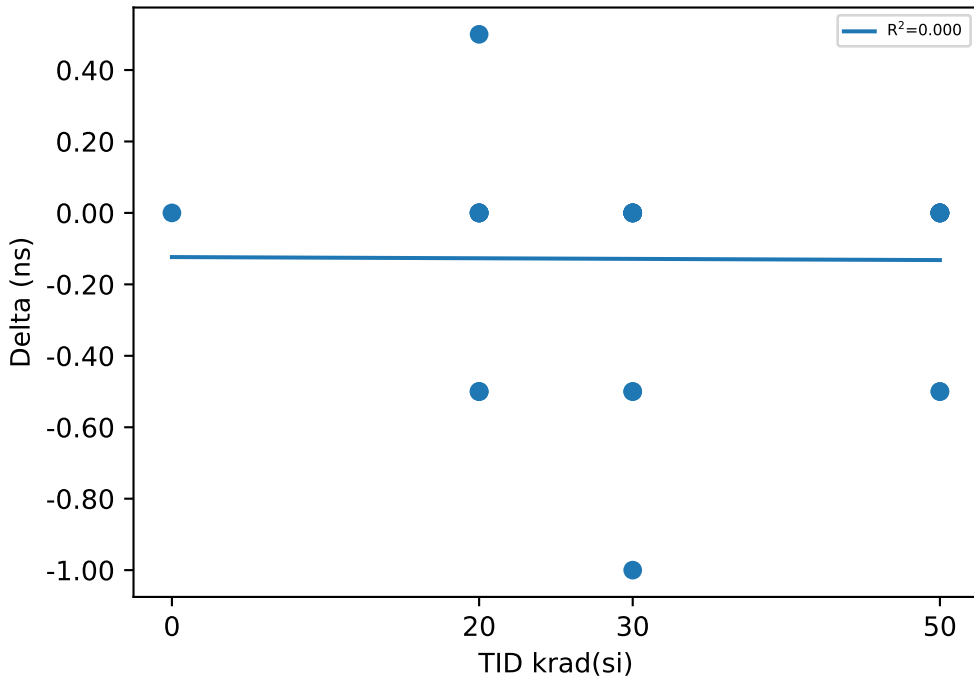
TID vs Result Stats



Test Results (Upper Limit = 8.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 4 | 3.5 | -0.5 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 4.5 | 3.5 | -1 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 4 | 3.5 | -0.5 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 524 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 525 | 20 | HDR biased | 3.5 | 4 | 0.5 |
| 531 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 532 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 4 | 3.5 | -0.5 |

TID vs Post - Pre Exposure Delta

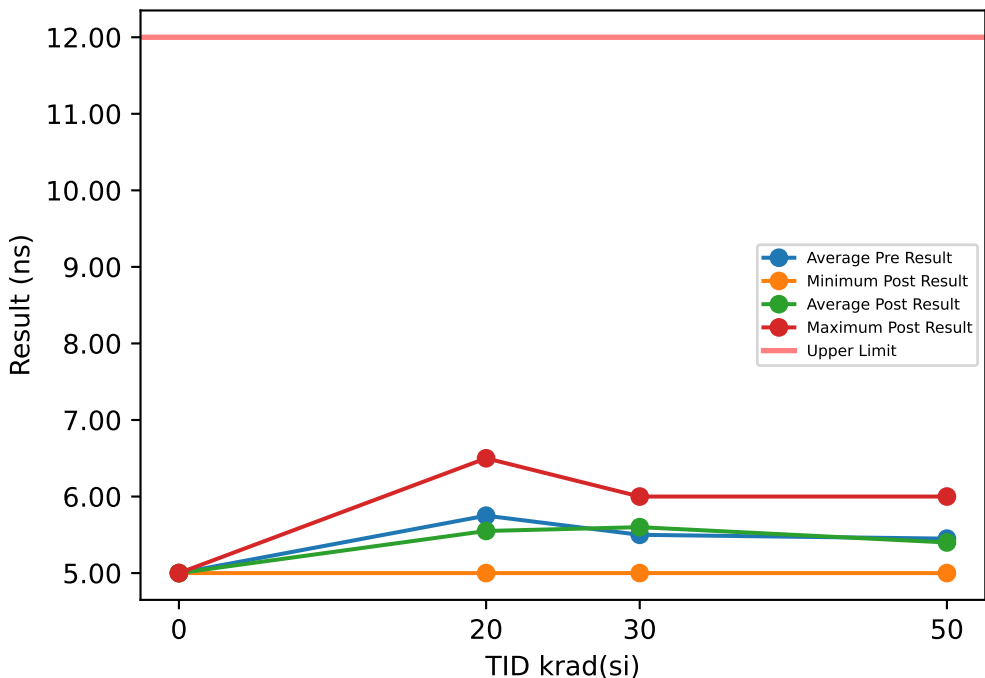


Test Statistics (ns)

| 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 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.55 | 4 | 0.15811 | -0.5 | -0.1 | 0.5 | 0.31623 |
| 30 | 3.5 | 3.7 | 4.5 | 0.3496 | 3.5 | 3.5 | 3.5 | 0 | -1 | -0.2 | 0 | 0.3496 |
| 50 | 3.5 | 3.6 | 4 | 0.21082 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.1 | 0 | 0.21082 |

Device Test: 120.5 SW_T_PW_MIN_OFF(_Min Input PW Static HS Turn Off SW=12V VIN_10V)

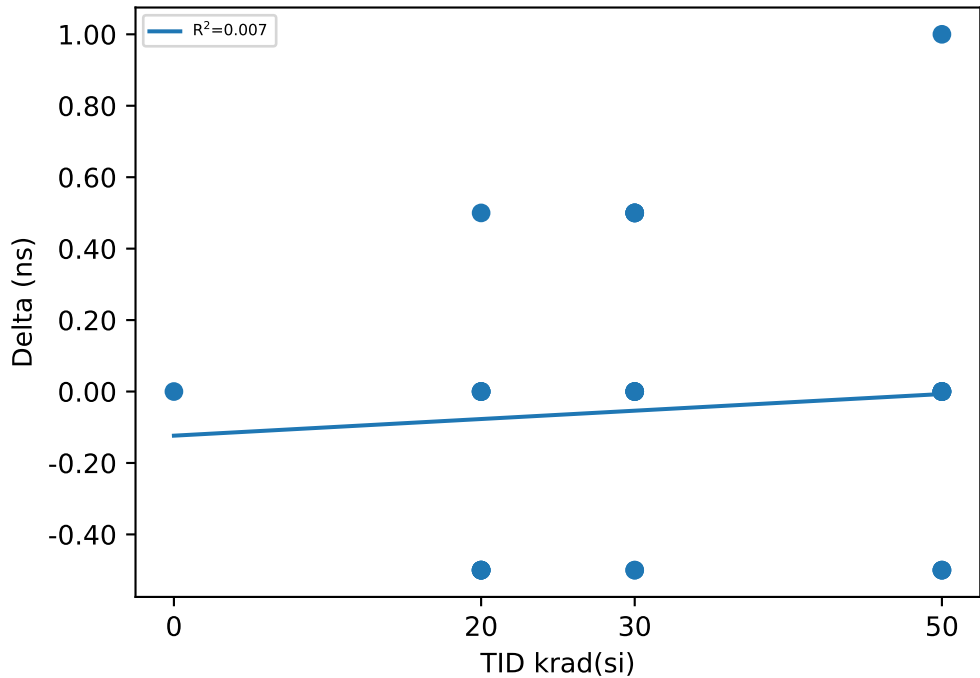
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 5 | 5 | 0 |
| 321 | 20 | HDR unbiased | 6 | 6 | 0 |
| 322 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 323 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 324 | 20 | HDR unbiased | 5.5 | 5.5 | 0 |
| 325 | 20 | HDR unbiased | 6.5 | 6.5 | 0 |
| 331 | 30 | HDR unbiased | 5.5 | 6 | 0.5 |
| 332 | 30 | HDR unbiased | 5 | 5 | 0 |
| 333 | 30 | HDR unbiased | 6 | 5.5 | -0.5 |
| 334 | 30 | HDR unbiased | 5 | 5.5 | 0.5 |
| 335 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 351 | 50 | HDR unbiased | 6 | 6 | 0 |
| 352 | 50 | HDR unbiased | 5.5 | 5.5 | 0 |
| 353 | 50 | HDR unbiased | 6 | 6 | 0 |
| 354 | 50 | HDR unbiased | 5 | 6 | 1 |
| 355 | 50 | HDR unbiased | 5.5 | 5 | -0.5 |
| 521 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 522 | 20 | HDR biased | 5 | 5.5 | 0.5 |
| 523 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 524 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 525 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 531 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 532 | 30 | HDR biased | 6 | 6 | 0 |
| 533 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 534 | 30 | HDR biased | 5.5 | 5 | -0.5 |
| 535 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 551 | 50 | HDR biased | 5 | 5 | 0 |
| 552 | 50 | HDR biased | 5 | 5 | 0 |
| 553 | 50 | HDR biased | 5.5 | 5 | -0.5 |
| 554 | 50 | HDR biased | 5.5 | 5.5 | 0 |
| 555 | 50 | HDR biased | 5.5 | 5 | -0.5 |

TID vs Post - Pre Exposure Delta

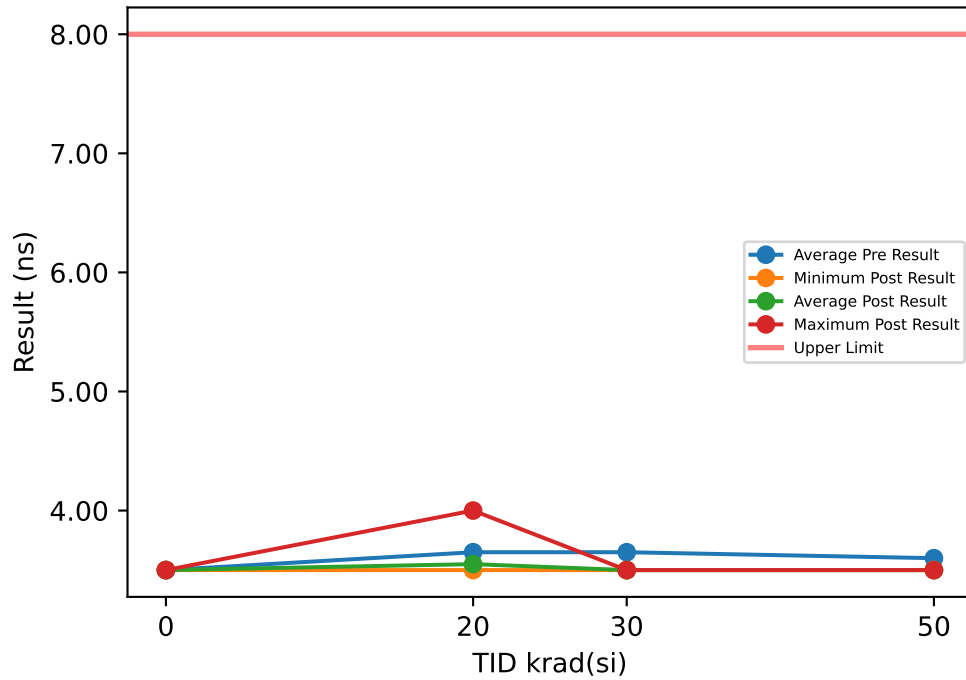


Test Statistics (ns)

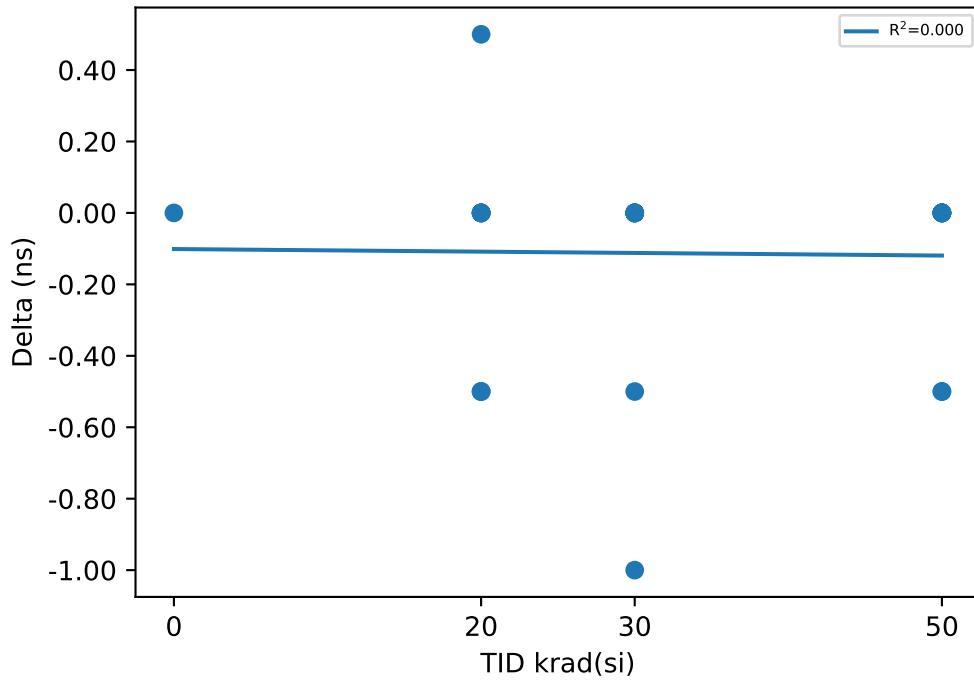
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5 | 5 | 5 | | 5 | 5 | 5 | | 0 | 0 | 0 | |
| 20 | 5 | 5.75 | 6.5 | 0.42492 | 5 | 5.55 | 6.5 | 0.4378 | -0.5 | -0.2 | 0.5 | 0.3496 |
| 30 | 5 | 5.5 | 6 | 0.33333 | 5 | 5.6 | 6 | 0.39441 | -0.5 | 0.1 | 0.5 | 0.39441 |
| 50 | 5 | 5.45 | 6 | 0.36893 | 5 | 5.4 | 6 | 0.45947 | -0.5 | -0.05 | 1 | 0.4378 |

Device Test: 121.0 SW_T_PW_MIN(_Min Input PW Static HS Turn On VIN_12V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 8.0 (ns))

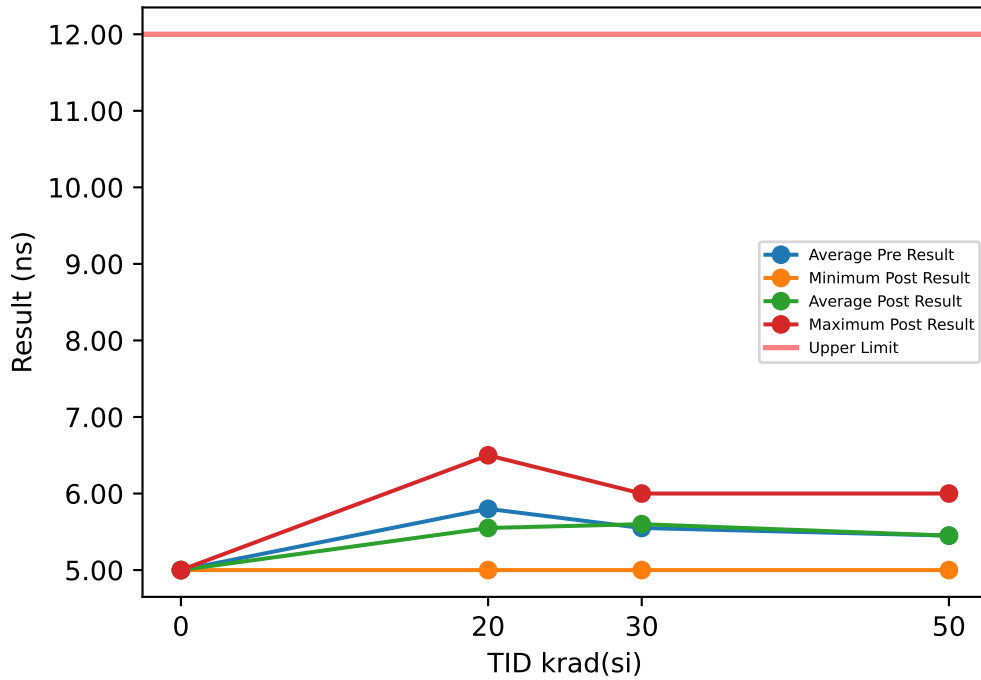
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 4 | 3.5 | -0.5 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 4.5 | 3.5 | -1 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 4 | 3.5 | -0.5 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 524 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 525 | 20 | HDR biased | 3.5 | 4 | 0.5 |
| 531 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 532 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 4 | 3.5 | -0.5 |

Test Statistics (ns)

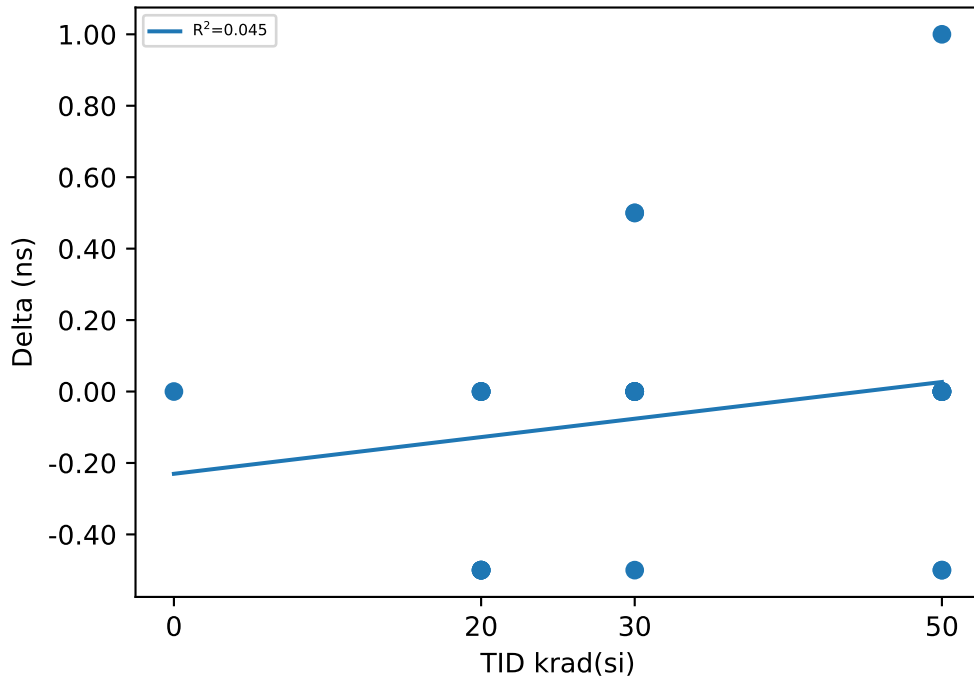
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.55 | 4 | 0.15811 | -0.5 | -0.1 | 0.5 | 0.31623 |
| 30 | 3.5 | 3.65 | 4.5 | 0.33747 | 3.5 | 3.5 | 3.5 | 0 | -1 | -0.15 | 0 | 0.33747 |
| 50 | 3.5 | 3.6 | 4 | 0.21082 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.1 | 0 | 0.21082 |

Device Test: 121.1 SW_T_PW_MIN_OFF(_Min Input PW Static HS Turn Off VIN_12V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 12.0 (ns))

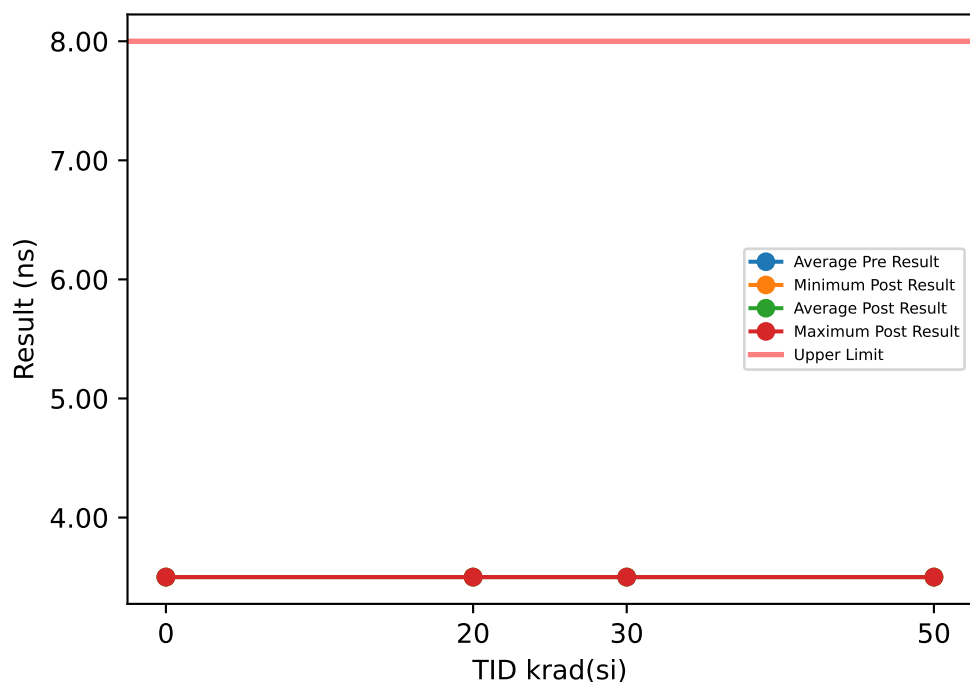
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 5 | 5 | 0 |
| 321 | 20 | HDR unbiased | 6 | 6 | 0 |
| 322 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 323 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 324 | 20 | HDR unbiased | 5.5 | 5.5 | 0 |
| 325 | 20 | HDR unbiased | 6.5 | 6.5 | 0 |
| 331 | 30 | HDR unbiased | 5.5 | 6 | 0.5 |
| 332 | 30 | HDR unbiased | 5 | 5 | 0 |
| 333 | 30 | HDR unbiased | 6 | 6 | 0 |
| 334 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 335 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 351 | 50 | HDR unbiased | 6 | 6 | 0 |
| 352 | 50 | HDR unbiased | 5.5 | 5.5 | 0 |
| 353 | 50 | HDR unbiased | 6 | 6 | 0 |
| 354 | 50 | HDR unbiased | 5 | 6 | 1 |
| 355 | 50 | HDR unbiased | 5.5 | 5 | -0.5 |
| 521 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 522 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 523 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 524 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 525 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 531 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 532 | 30 | HDR biased | 6 | 6 | 0 |
| 533 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 534 | 30 | HDR biased | 5.5 | 5 | -0.5 |
| 535 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 551 | 50 | HDR biased | 5 | 5 | 0 |
| 552 | 50 | HDR biased | 5 | 5 | 0 |
| 553 | 50 | HDR biased | 5.5 | 5 | -0.5 |
| 554 | 50 | HDR biased | 5.5 | 5.5 | 0 |
| 555 | 50 | HDR biased | 5.5 | 5.5 | 0 |

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 | 5 | 5 | 5 | | 5 | 5 | 5 | | 0 | 0 | 0 | |
| 20 | 5.5 | 5.8 | 6.5 | 0.3496 | 5 | 5.55 | 6.5 | 0.4378 | -0.5 | -0.25 | 0 | 0.26352 |
| 30 | 5 | 5.55 | 6 | 0.28382 | 5 | 5.6 | 6 | 0.39441 | -0.5 | 0.05 | 0.5 | 0.28382 |
| 50 | 5 | 5.45 | 6 | 0.36893 | 5 | 5.45 | 6 | 0.4378 | -0.5 | 0 | 1 | 0.40825 |

Device Test: 121.2 SW_T_PW_MIN(_Min Input PW Static LS Turn On VIN_12V)

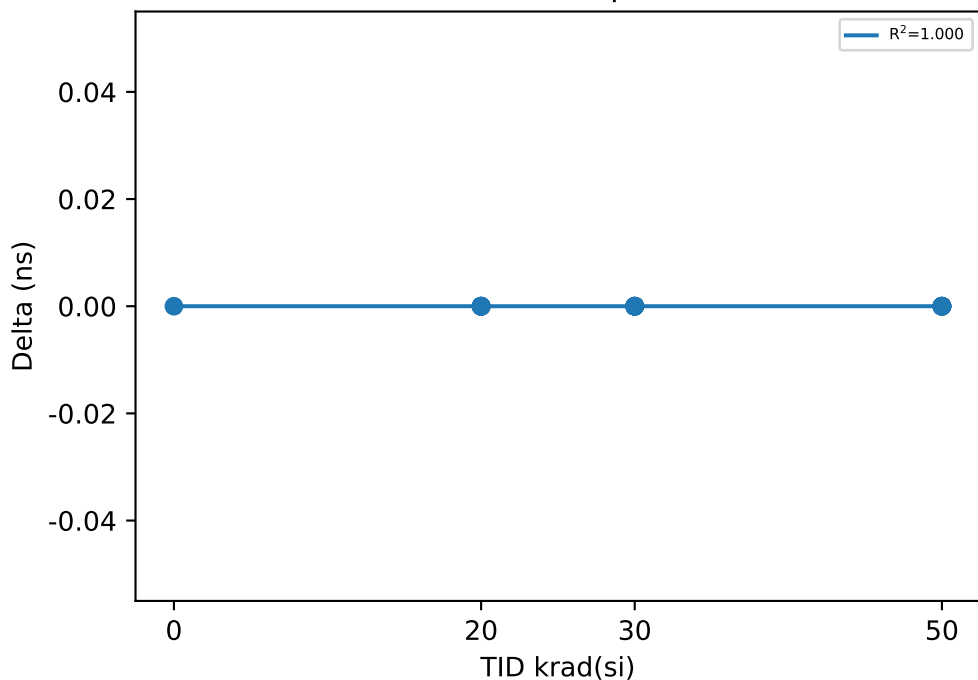
TID vs Result Stats



Test Results (Upper Limit = 8.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 524 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 525 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 531 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 532 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 3.5 | 3.5 | 0 |

TID vs Post - Pre Exposure Delta

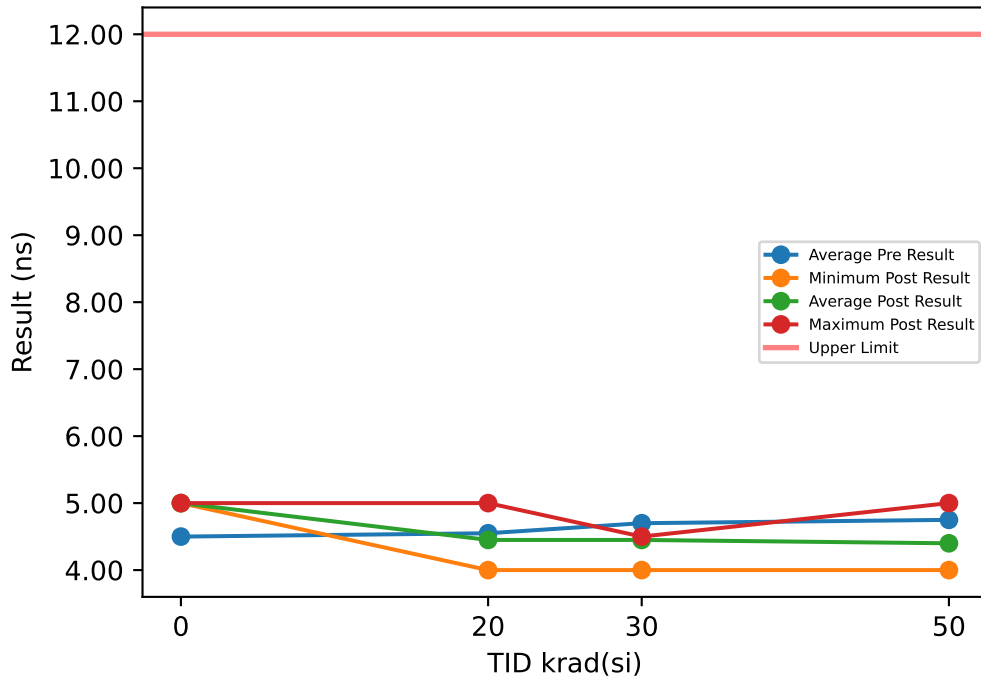


Test Statistics (ns)

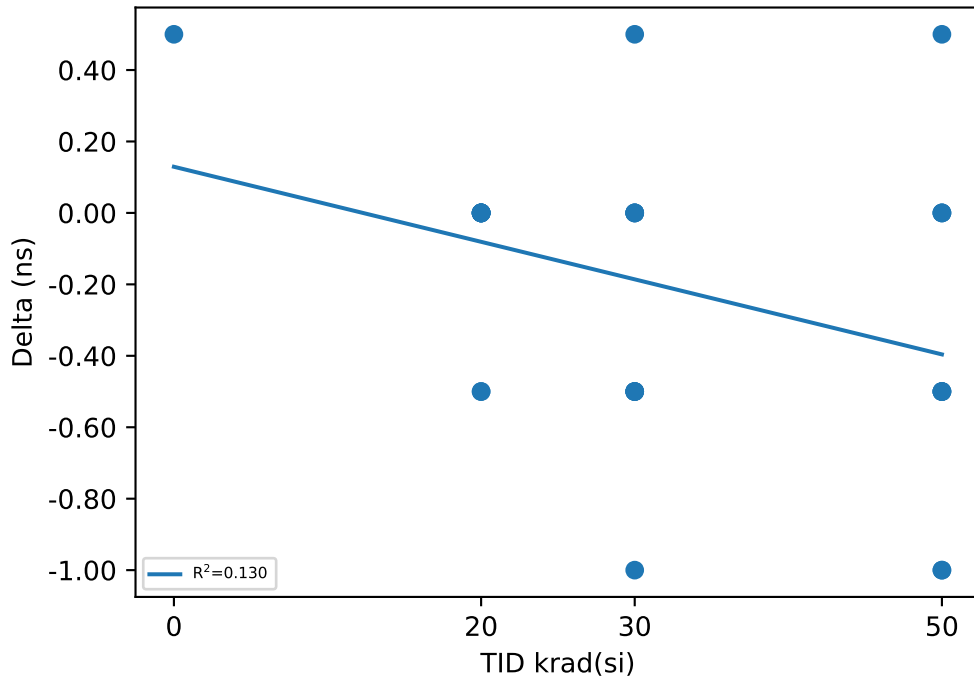
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |
| 30 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |
| 50 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |

Device Test: 121.3 SW_T_PW_MIN_OFF(_Min Input PW Static LS Turn Off VIN_12V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 12.0 (ns))

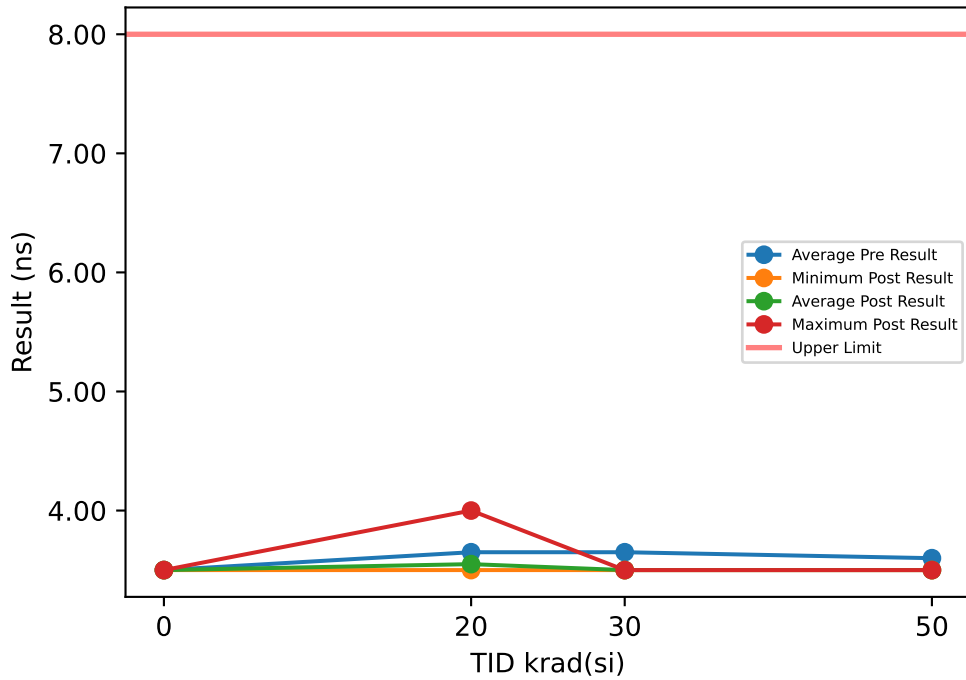
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 4.5 | 5 | 0.5 |
| 321 | 20 | HDR unbiased | 4.5 | 4.5 | 0 |
| 322 | 20 | HDR unbiased | 4.5 | 4.5 | 0 |
| 323 | 20 | HDR unbiased | 5 | 5 | 0 |
| 324 | 20 | HDR unbiased | 5 | 5 | 0 |
| 325 | 20 | HDR unbiased | 4.5 | 4 | -0.5 |
| 331 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 332 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 333 | 30 | HDR unbiased | 4.5 | 4.5 | 0 |
| 334 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 335 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 351 | 50 | HDR unbiased | 5 | 4.5 | -0.5 |
| 352 | 50 | HDR unbiased | 5 | 5 | 0 |
| 353 | 50 | HDR unbiased | 5 | 4 | -1 |
| 354 | 50 | HDR unbiased | 5 | 4 | -1 |
| 355 | 50 | HDR unbiased | 4.5 | 5 | 0.5 |
| 521 | 20 | HDR biased | 4 | 4 | 0 |
| 522 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 523 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 524 | 20 | HDR biased | 4.5 | 4 | -0.5 |
| 525 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 531 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 532 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 533 | 30 | HDR biased | 5 | 4 | -1 |
| 534 | 30 | HDR biased | 4 | 4.5 | 0.5 |
| 535 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 551 | 50 | HDR biased | 4.5 | 4.5 | 0 |
| 552 | 50 | HDR biased | 4.5 | 4 | -0.5 |
| 553 | 50 | HDR biased | 4.5 | 4.5 | 0 |
| 554 | 50 | HDR biased | 4.5 | 4 | -0.5 |
| 555 | 50 | HDR biased | 5 | 4.5 | -0.5 |

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 | 4.5 | 4.5 | 4.5 | | 5 | 5 | 5 | | 0.5 | 0.5 | 0.5 | |
| 20 | 4 | 4.55 | 5 | 0.28382 | 4 | 4.45 | 5 | 0.36893 | -0.5 | -0.1 | 0 | 0.21082 |
| 30 | 4 | 4.7 | 5 | 0.3496 | 4 | 4.45 | 4.5 | 0.15811 | -1 | -0.25 | 0.5 | 0.42492 |
| 50 | 4.5 | 4.75 | 5 | 0.26352 | 4 | 4.4 | 5 | 0.39441 | -1 | -0.35 | 0.5 | 0.47434 |

Device Test: 121.4 SW_T_PW_MIN(_Min Input PW Static HS Turn On SW=12V VIN_12V)

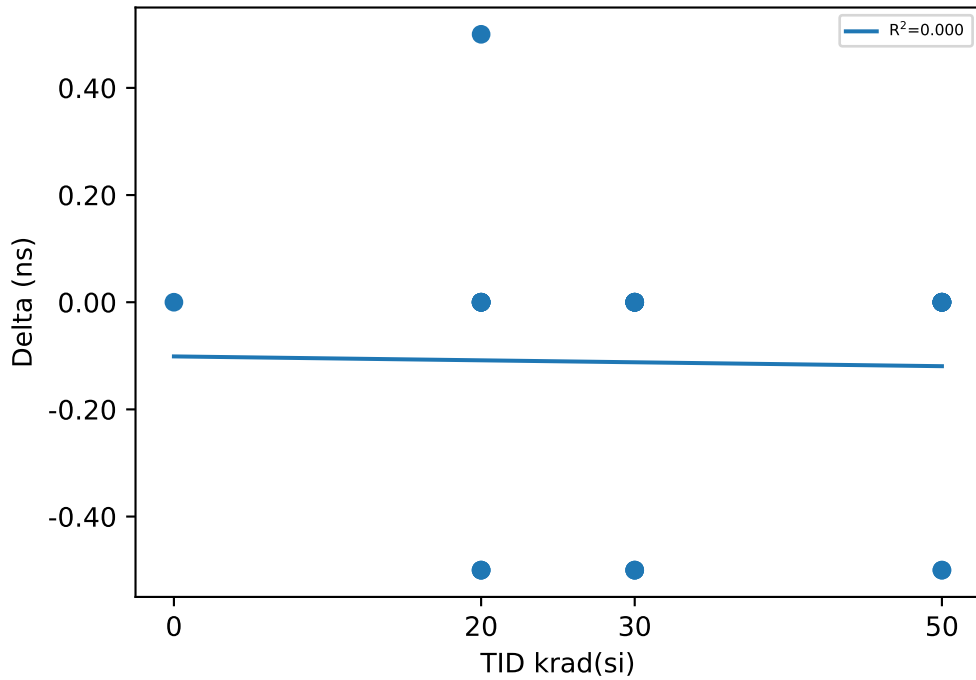
TID vs Result Stats



Test Results (Upper Limit = 8.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 4 | 3.5 | -0.5 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 4 | 3.5 | -0.5 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 4 | 3.5 | -0.5 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 524 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 525 | 20 | HDR biased | 3.5 | 4 | 0.5 |
| 531 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 532 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 4 | 3.5 | -0.5 |

TID vs Post - Pre Exposure Delta

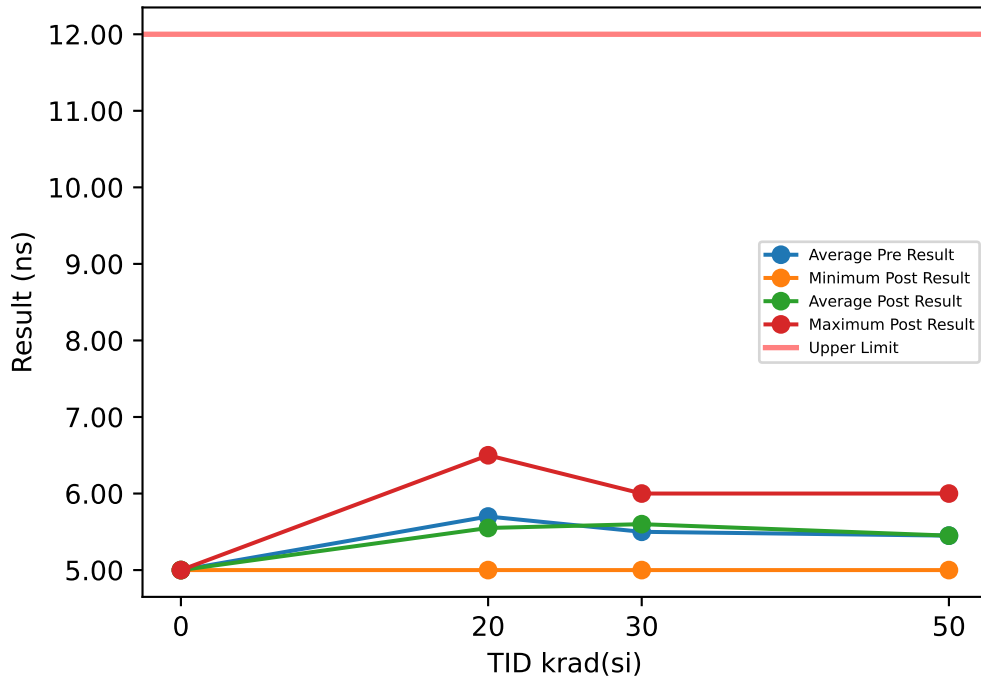


Test Statistics (ns)

| 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 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.55 | 4 | 0.15811 | -0.5 | -0.1 | 0.5 | 0.31623 |
| 30 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.15 | 0 | 0.24152 |
| 50 | 3.5 | 3.6 | 4 | 0.21082 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.1 | 0 | 0.21082 |

Device Test: 121.5 SW_T_PW_MIN_OFF(_Min Input PW Static HS Turn Off SW=12V VIN_12V)

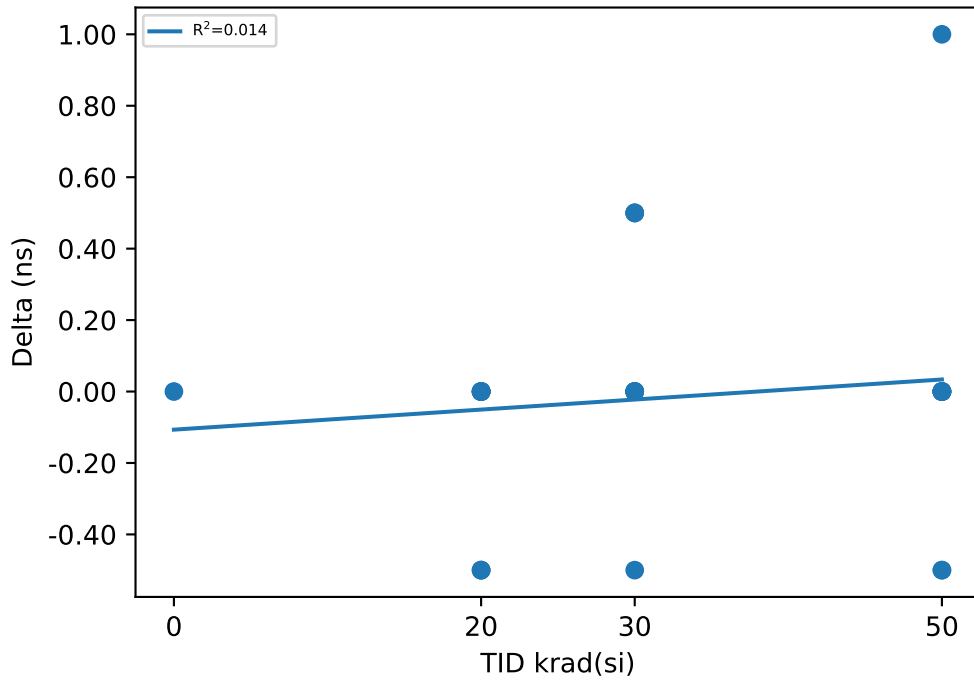
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 5 | 5 | 0 |
| 321 | 20 | HDR unbiased | 6 | 6 | 0 |
| 322 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 323 | 20 | HDR unbiased | 5 | 5 | 0 |
| 324 | 20 | HDR unbiased | 5.5 | 5.5 | 0 |
| 325 | 20 | HDR unbiased | 6.5 | 6.5 | 0 |
| 331 | 30 | HDR unbiased | 5.5 | 6 | 0.5 |
| 332 | 30 | HDR unbiased | 5 | 5 | 0 |
| 333 | 30 | HDR unbiased | 6 | 6 | 0 |
| 334 | 30 | HDR unbiased | 5 | 5.5 | 0.5 |
| 335 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 351 | 50 | HDR unbiased | 6 | 6 | 0 |
| 352 | 50 | HDR unbiased | 5.5 | 5.5 | 0 |
| 353 | 50 | HDR unbiased | 6 | 6 | 0 |
| 354 | 50 | HDR unbiased | 5 | 6 | 1 |
| 355 | 50 | HDR unbiased | 5.5 | 5 | -0.5 |
| 521 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 522 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 523 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 524 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 525 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 531 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 532 | 30 | HDR biased | 6 | 6 | 0 |
| 533 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 534 | 30 | HDR biased | 5.5 | 5 | -0.5 |
| 535 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 551 | 50 | HDR biased | 5 | 5 | 0 |
| 552 | 50 | HDR biased | 5 | 5 | 0 |
| 553 | 50 | HDR biased | 5.5 | 5 | -0.5 |
| 554 | 50 | HDR biased | 5.5 | 5.5 | 0 |
| 555 | 50 | HDR biased | 5.5 | 5.5 | 0 |

TID vs Post - Pre Exposure Delta

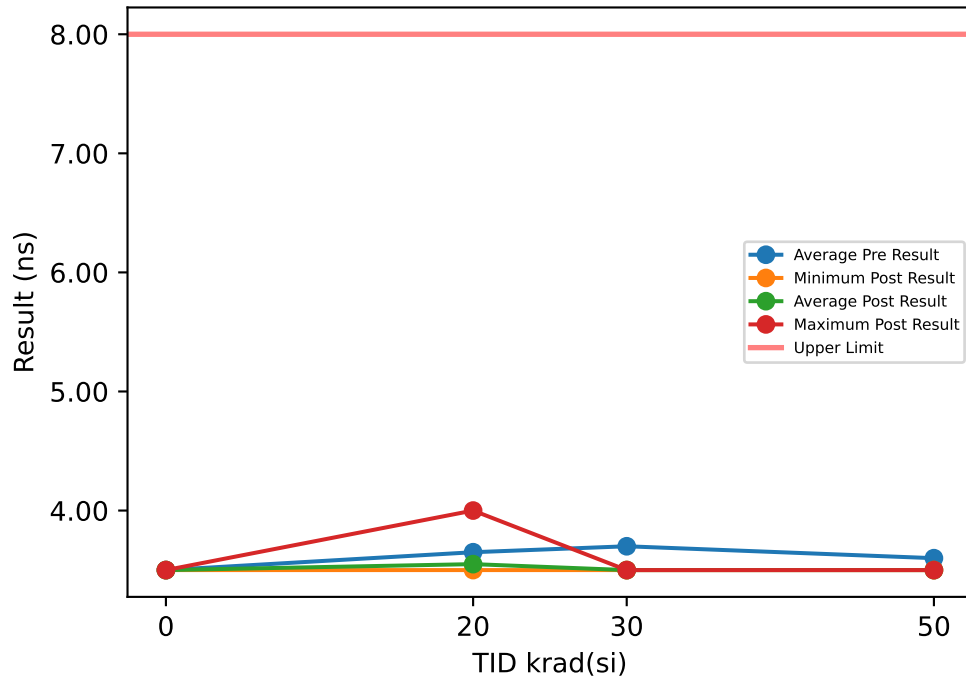


Test Statistics (ns)

| 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 | 5 | 5 | 5 | | 5 | 5 | 5 | | 0 | 0 | 0 | |
| 20 | 5 | 5.7 | 6.5 | 0.42164 | 5 | 5.55 | 6.5 | 0.4378 | -0.5 | -0.15 | 0 | 0.24152 |
| 30 | 5 | 5.5 | 6 | 0.33333 | 5 | 5.6 | 6 | 0.39441 | -0.5 | 0.1 | 0.5 | 0.31623 |
| 50 | 5 | 5.45 | 6 | 0.36893 | 5 | 5.45 | 6 | 0.4378 | -0.5 | 0 | 1 | 0.40825 |

Device Test: 122.0 SW_T_PW_MIN(_Min Input PW Static HS Turn On VIN_14V)

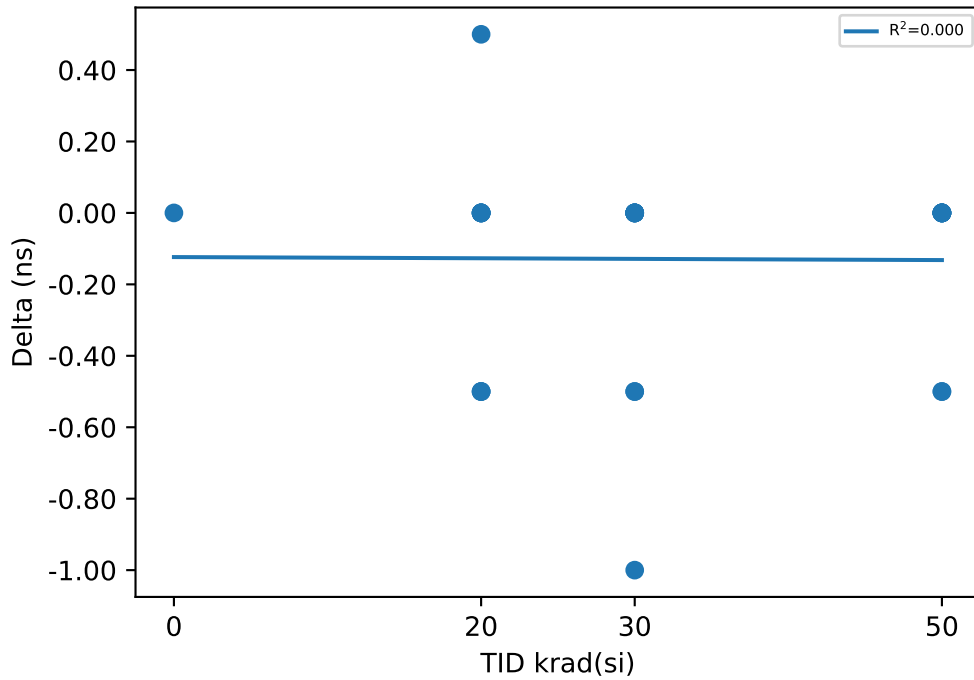
TID vs Result Stats



Test Results (Upper Limit = 8.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 4 | 3.5 | -0.5 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 4.5 | 3.5 | -1 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 4 | 3.5 | -0.5 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 524 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 525 | 20 | HDR biased | 3.5 | 4 | 0.5 |
| 531 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 532 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 4 | 3.5 | -0.5 |

TID vs Post - Pre Exposure Delta

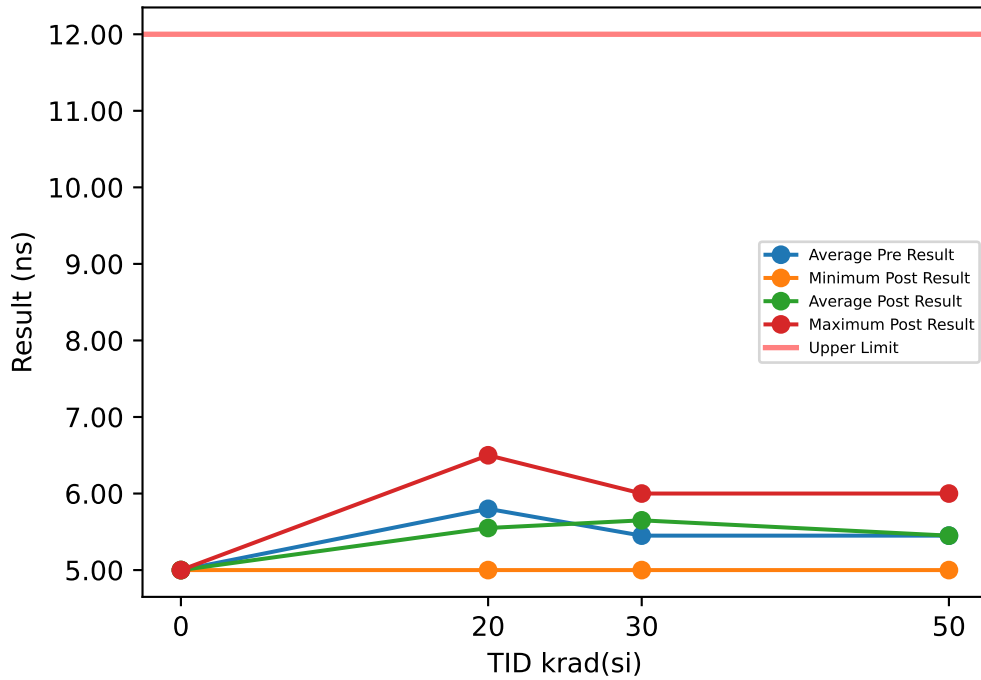


Test Statistics (ns)

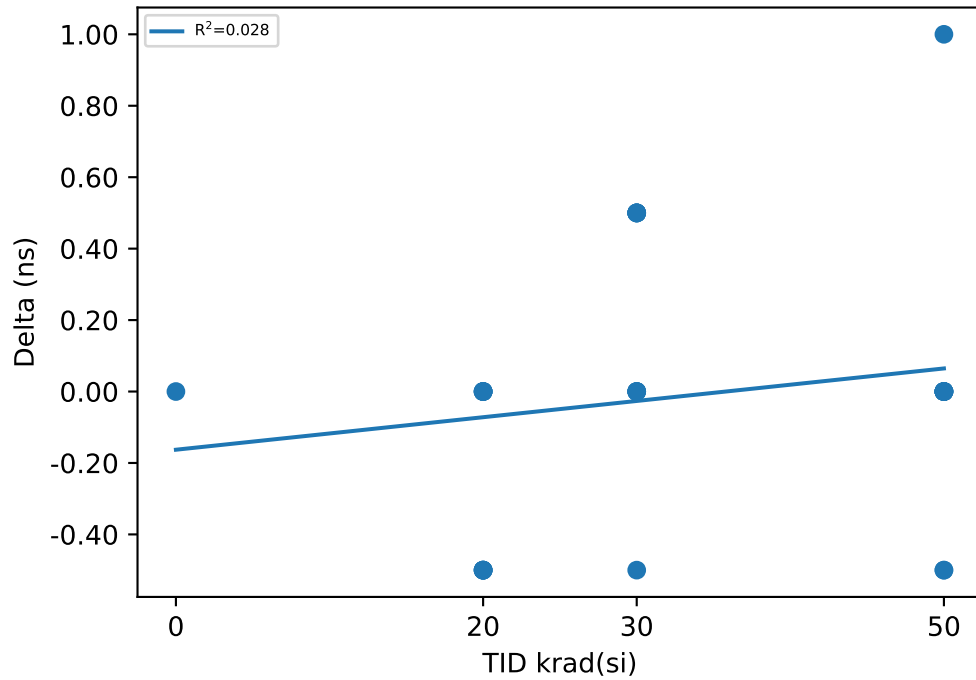
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.55 | 4 | 0.15811 | -0.5 | -0.1 | 0.5 | 0.31623 |
| 30 | 3.5 | 3.7 | 4.5 | 0.3496 | 3.5 | 3.5 | 3.5 | 0 | -1 | -0.2 | 0 | 0.3496 |
| 50 | 3.5 | 3.6 | 4 | 0.21082 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.1 | 0 | 0.21082 |

Device Test: 122.1 SW_T_PW_MIN_OFF(_Min Input PW Static HS Turn Off VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 12.0 (ns))

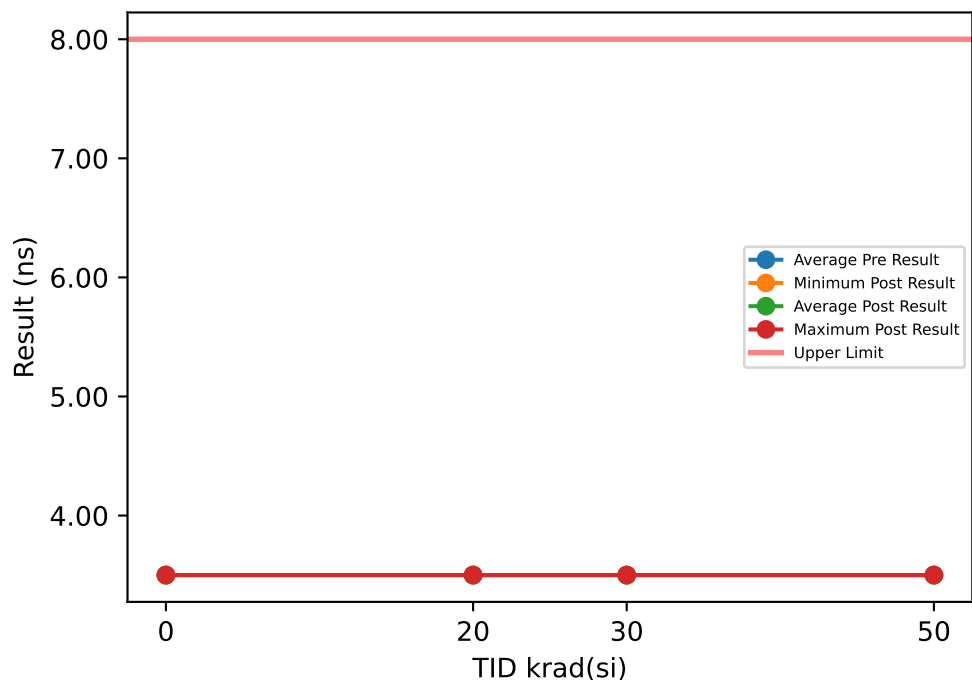
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 5 | 5 | 0 |
| 321 | 20 | HDR unbiased | 6 | 6 | 0 |
| 322 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 323 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 324 | 20 | HDR unbiased | 5.5 | 5.5 | 0 |
| 325 | 20 | HDR unbiased | 6.5 | 6.5 | 0 |
| 331 | 30 | HDR unbiased | 5.5 | 6 | 0.5 |
| 332 | 30 | HDR unbiased | 5 | 5 | 0 |
| 333 | 30 | HDR unbiased | 6 | 6 | 0 |
| 334 | 30 | HDR unbiased | 5 | 5.5 | 0.5 |
| 335 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 351 | 50 | HDR unbiased | 6 | 6 | 0 |
| 352 | 50 | HDR unbiased | 5.5 | 5.5 | 0 |
| 353 | 50 | HDR unbiased | 6 | 6 | 0 |
| 354 | 50 | HDR unbiased | 5 | 6 | 1 |
| 355 | 50 | HDR unbiased | 5.5 | 5 | -0.5 |
| 521 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 522 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 523 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 524 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 525 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 531 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 532 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 533 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 534 | 30 | HDR biased | 5.5 | 5 | -0.5 |
| 535 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 551 | 50 | HDR biased | 5 | 5 | 0 |
| 552 | 50 | HDR biased | 5 | 5 | 0 |
| 553 | 50 | HDR biased | 5.5 | 5 | -0.5 |
| 554 | 50 | HDR biased | 5.5 | 5.5 | 0 |
| 555 | 50 | HDR biased | 5.5 | 5.5 | 0 |

Test Statistics (ns)

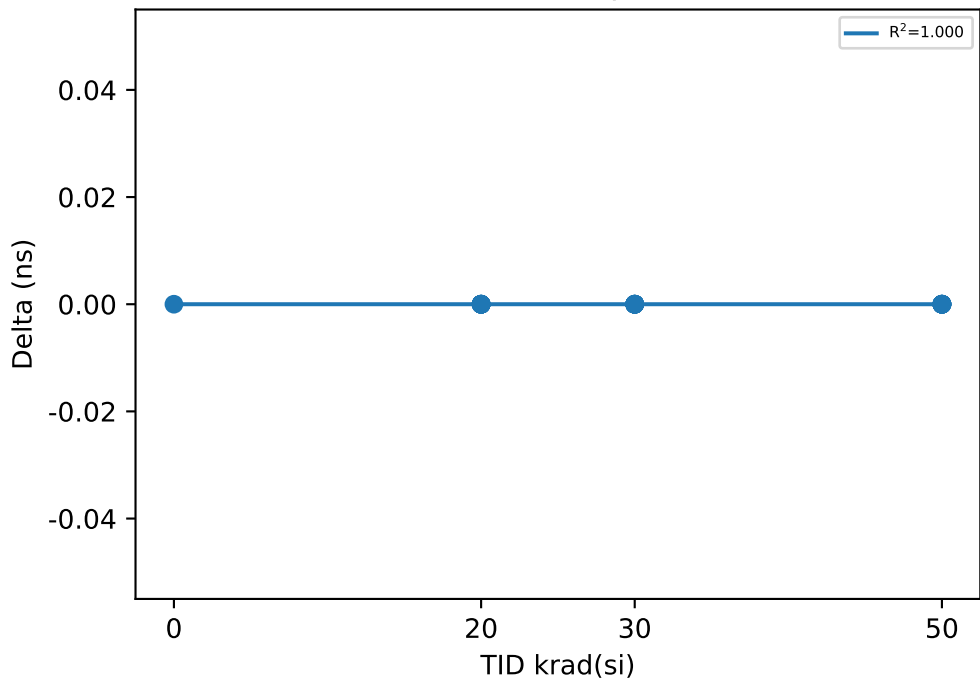
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5 | 5 | 5 | | 5 | 5 | 5 | | 0 | 0 | 0 | |
| 20 | 5.5 | 5.8 | 6.5 | 0.3496 | 5 | 5.55 | 6.5 | 0.4378 | -0.5 | -0.25 | 0 | 0.26352 |
| 30 | 5 | 5.45 | 6 | 0.28382 | 5 | 5.65 | 6 | 0.41164 | -0.5 | 0.2 | 0.5 | 0.3496 |
| 50 | 5 | 5.45 | 6 | 0.36893 | 5 | 5.45 | 6 | 0.4378 | -0.5 | 0 | 1 | 0.40825 |

Device Test: 122.2 SW_T_PW_MIN(_Min Input PW Static LS Turn On VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 8.0 (ns))

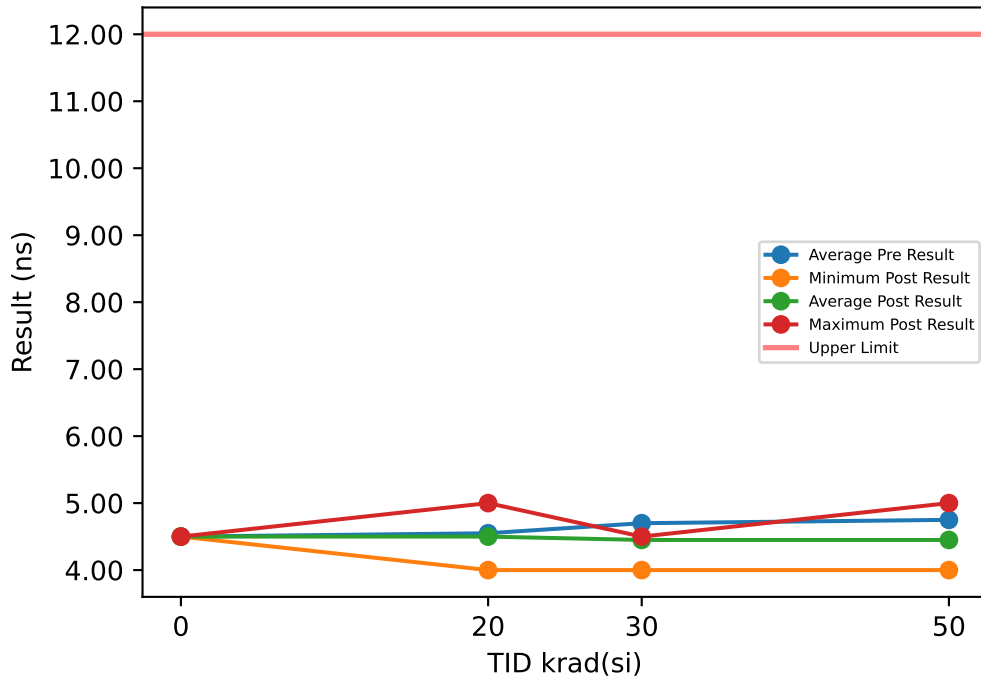
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 524 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 525 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 531 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 532 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 3.5 | 3.5 | 0 |

Test Statistics (ns)

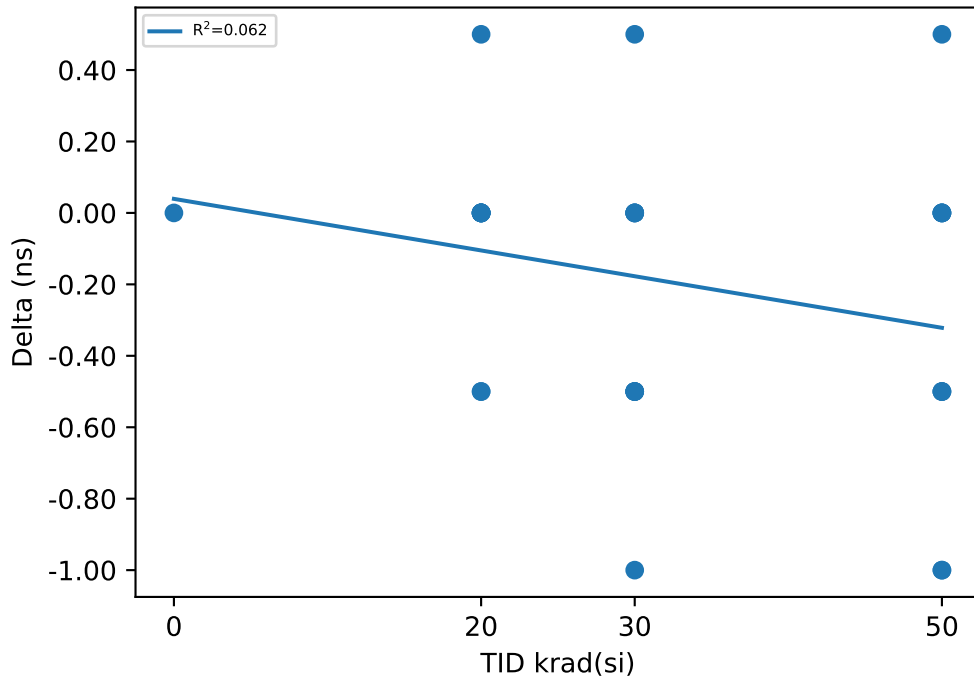
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |
| 30 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |
| 50 | 3.5 | 3.5 | 3.5 | 0 | 3.5 | 3.5 | 3.5 | 0 | 0 | 0 | 0 | 0 |

Device Test: 122.3 SW_T_PW_MIN_OFF(_Min Input PW Static LS Turn Off VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 12.0 (ns))

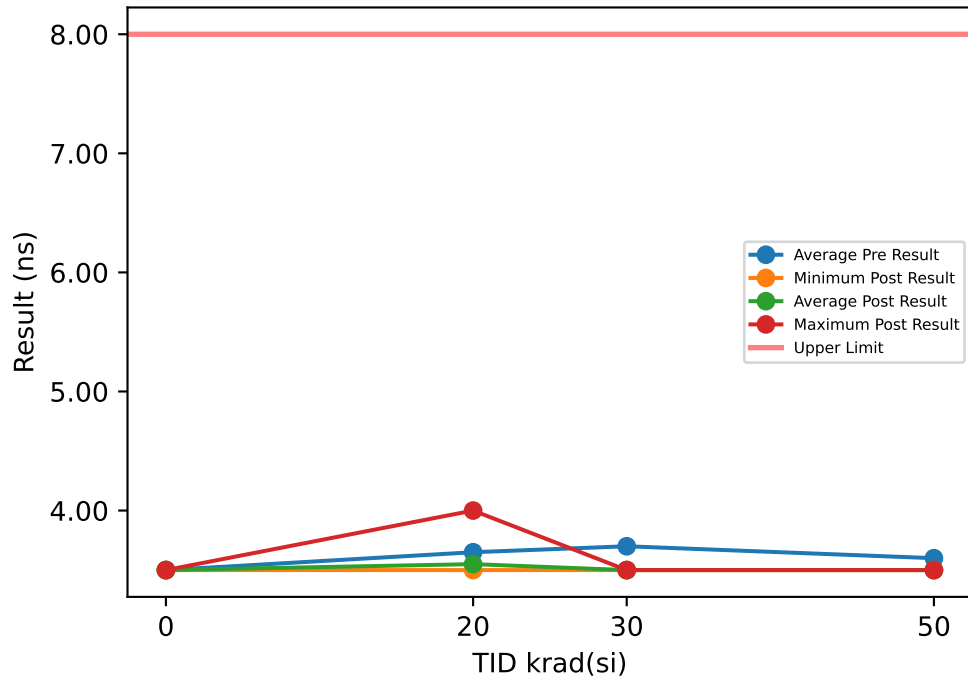
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 4.5 | 4.5 | 0 |
| 321 | 20 | HDR unbiased | 4.5 | 4.5 | 0 |
| 322 | 20 | HDR unbiased | 4.5 | 4.5 | 0 |
| 323 | 20 | HDR unbiased | 5 | 5 | 0 |
| 324 | 20 | HDR unbiased | 5 | 5 | 0 |
| 325 | 20 | HDR unbiased | 4.5 | 4 | -0.5 |
| 331 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 332 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 333 | 30 | HDR unbiased | 4.5 | 4.5 | 0 |
| 334 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 335 | 30 | HDR unbiased | 5 | 4.5 | -0.5 |
| 351 | 50 | HDR unbiased | 5 | 4.5 | -0.5 |
| 352 | 50 | HDR unbiased | 5 | 5 | 0 |
| 353 | 50 | HDR unbiased | 5 | 4 | -1 |
| 354 | 50 | HDR unbiased | 5 | 4 | -1 |
| 355 | 50 | HDR unbiased | 4.5 | 5 | 0.5 |
| 521 | 20 | HDR biased | 4 | 4.5 | 0.5 |
| 522 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 523 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 524 | 20 | HDR biased | 4.5 | 4 | -0.5 |
| 525 | 20 | HDR biased | 4.5 | 4.5 | 0 |
| 531 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 532 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 533 | 30 | HDR biased | 5 | 4 | -1 |
| 534 | 30 | HDR biased | 4 | 4.5 | 0.5 |
| 535 | 30 | HDR biased | 4.5 | 4.5 | 0 |
| 551 | 50 | HDR biased | 4.5 | 4.5 | 0 |
| 552 | 50 | HDR biased | 4.5 | 4 | -0.5 |
| 553 | 50 | HDR biased | 4.5 | 4.5 | 0 |
| 554 | 50 | HDR biased | 4.5 | 4 | -0.5 |
| 555 | 50 | HDR biased | 5 | 5 | 0 |

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 | 4.5 | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 0 | 0 | 0 | |
| 20 | 4 | 4.55 | 5 | 0.28382 | 4 | 4.5 | 5 | 0.33333 | -0.5 | -0.05 | 0.5 | 0.28382 |
| 30 | 4 | 4.7 | 5 | 0.3496 | 4 | 4.45 | 4.5 | 0.15811 | -1 | -0.25 | 0.5 | 0.42492 |
| 50 | 4.5 | 4.75 | 5 | 0.26352 | 4 | 4.45 | 5 | 0.4378 | -1 | -0.3 | 0.5 | 0.48305 |

Device Test: 122.4 SW_T_PW_MIN(_Min Input PW Static HS Turn On SW=12V VIN_14V)

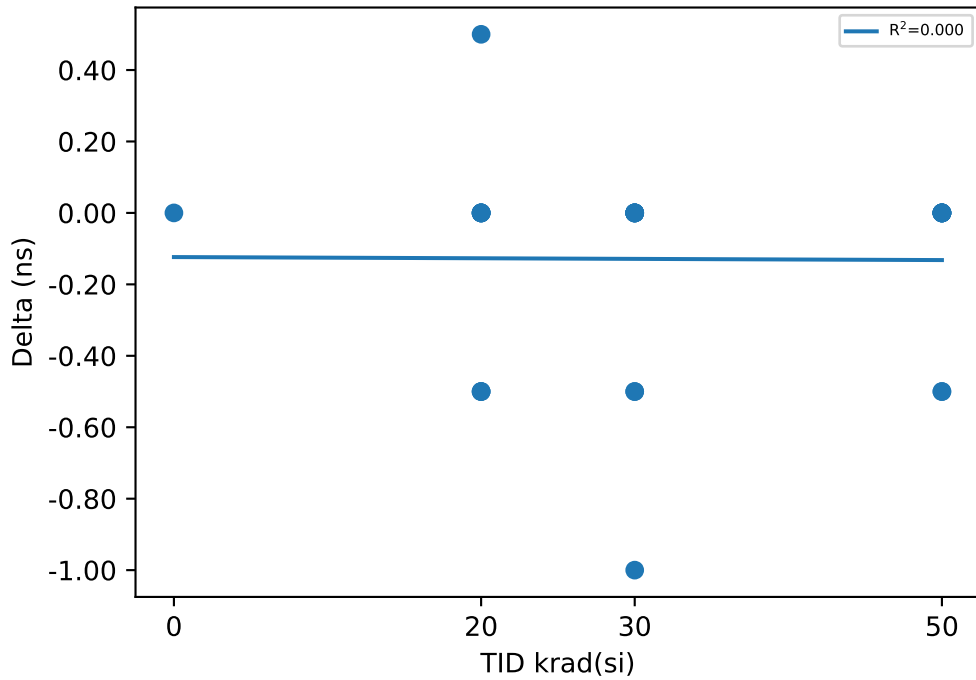
TID vs Result Stats



Test Results (Upper Limit = 8.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 3.5 | 3.5 | 0 |
| 321 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 322 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 323 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 324 | 20 | HDR unbiased | 3.5 | 3.5 | 0 |
| 325 | 20 | HDR unbiased | 4 | 3.5 | -0.5 |
| 331 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 332 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 333 | 30 | HDR unbiased | 4.5 | 3.5 | -1 |
| 334 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 335 | 30 | HDR unbiased | 3.5 | 3.5 | 0 |
| 351 | 50 | HDR unbiased | 4 | 3.5 | -0.5 |
| 352 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 353 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 354 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 355 | 50 | HDR unbiased | 3.5 | 3.5 | 0 |
| 521 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 522 | 20 | HDR biased | 3.5 | 3.5 | 0 |
| 523 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 524 | 20 | HDR biased | 4 | 3.5 | -0.5 |
| 525 | 20 | HDR biased | 3.5 | 4 | 0.5 |
| 531 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 532 | 30 | HDR biased | 4 | 3.5 | -0.5 |
| 533 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 534 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 535 | 30 | HDR biased | 3.5 | 3.5 | 0 |
| 551 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 552 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 553 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 554 | 50 | HDR biased | 3.5 | 3.5 | 0 |
| 555 | 50 | HDR biased | 4 | 3.5 | -0.5 |

TID vs Post - Pre Exposure Delta

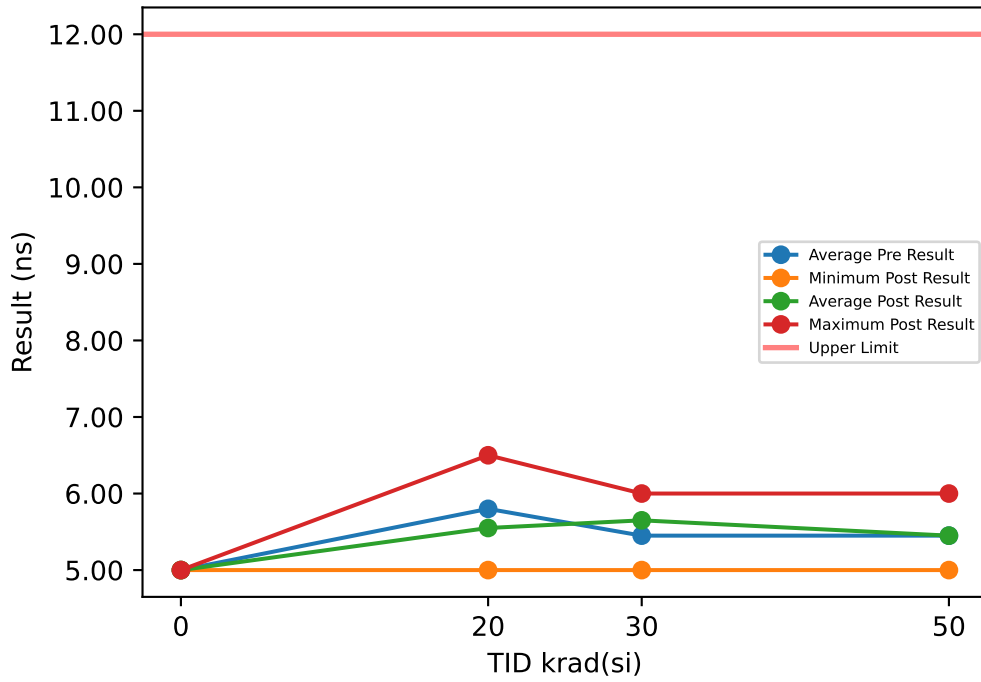


Test Statistics (ns)

| 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 | 3.5 | 3.5 | 3.5 | | 3.5 | 3.5 | 3.5 | | 0 | 0 | 0 | |
| 20 | 3.5 | 3.65 | 4 | 0.24152 | 3.5 | 3.55 | 4 | 0.15811 | -0.5 | -0.1 | 0.5 | 0.31623 |
| 30 | 3.5 | 3.7 | 4.5 | 0.3496 | 3.5 | 3.5 | 3.5 | 0 | -1 | -0.2 | 0 | 0.3496 |
| 50 | 3.5 | 3.6 | 4 | 0.21082 | 3.5 | 3.5 | 3.5 | 0 | -0.5 | -0.1 | 0 | 0.21082 |

Device Test: 122.5 SW_T_PW_MIN_OFF(_Min Input PW Static HS Turn Off SW=12V VIN_14V)

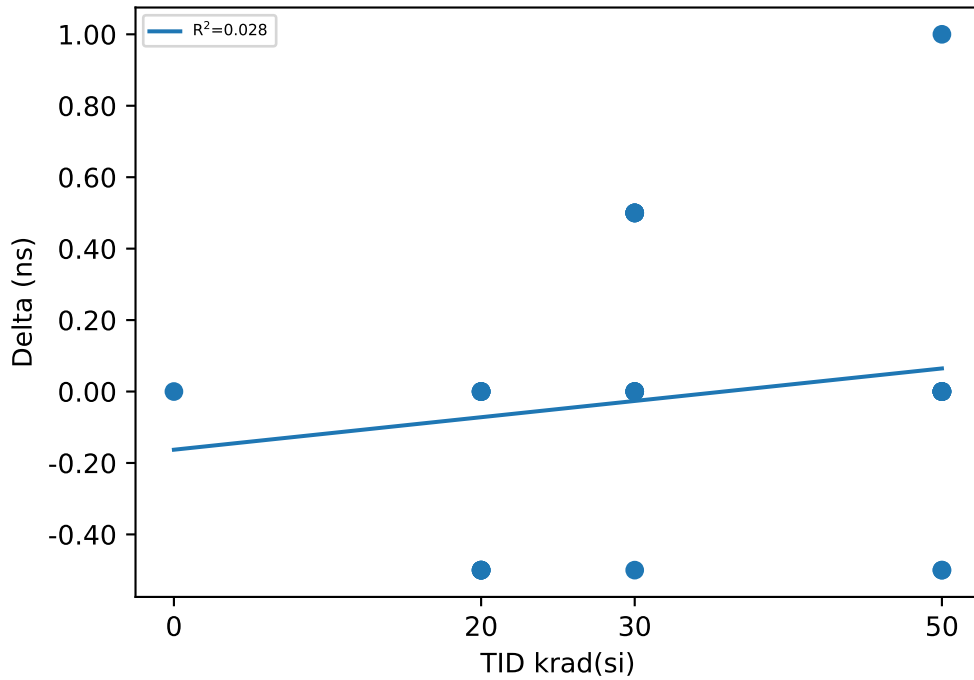
TID vs Result Stats



Test Results (Upper Limit = 12.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 5 | 5 | 0 |
| 321 | 20 | HDR unbiased | 6 | 6 | 0 |
| 322 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 323 | 20 | HDR unbiased | 5.5 | 5 | -0.5 |
| 324 | 20 | HDR unbiased | 5.5 | 5.5 | 0 |
| 325 | 20 | HDR unbiased | 6.5 | 6.5 | 0 |
| 331 | 30 | HDR unbiased | 5.5 | 6 | 0.5 |
| 332 | 30 | HDR unbiased | 5 | 5 | 0 |
| 333 | 30 | HDR unbiased | 6 | 6 | 0 |
| 334 | 30 | HDR unbiased | 5 | 5.5 | 0.5 |
| 335 | 30 | HDR unbiased | 5.5 | 5.5 | 0 |
| 351 | 50 | HDR unbiased | 6 | 6 | 0 |
| 352 | 50 | HDR unbiased | 5.5 | 5.5 | 0 |
| 353 | 50 | HDR unbiased | 6 | 6 | 0 |
| 354 | 50 | HDR unbiased | 5 | 6 | 1 |
| 355 | 50 | HDR unbiased | 5.5 | 5 | -0.5 |
| 521 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 522 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 523 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 524 | 20 | HDR biased | 6 | 5.5 | -0.5 |
| 525 | 20 | HDR biased | 5.5 | 5.5 | 0 |
| 531 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 532 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 533 | 30 | HDR biased | 5.5 | 6 | 0.5 |
| 534 | 30 | HDR biased | 5.5 | 5 | -0.5 |
| 535 | 30 | HDR biased | 5.5 | 5.5 | 0 |
| 551 | 50 | HDR biased | 5 | 5 | 0 |
| 552 | 50 | HDR biased | 5 | 5 | 0 |
| 553 | 50 | HDR biased | 5.5 | 5 | -0.5 |
| 554 | 50 | HDR biased | 5.5 | 5.5 | 0 |
| 555 | 50 | HDR biased | 5.5 | 5.5 | 0 |

TID vs Post - Pre Exposure Delta

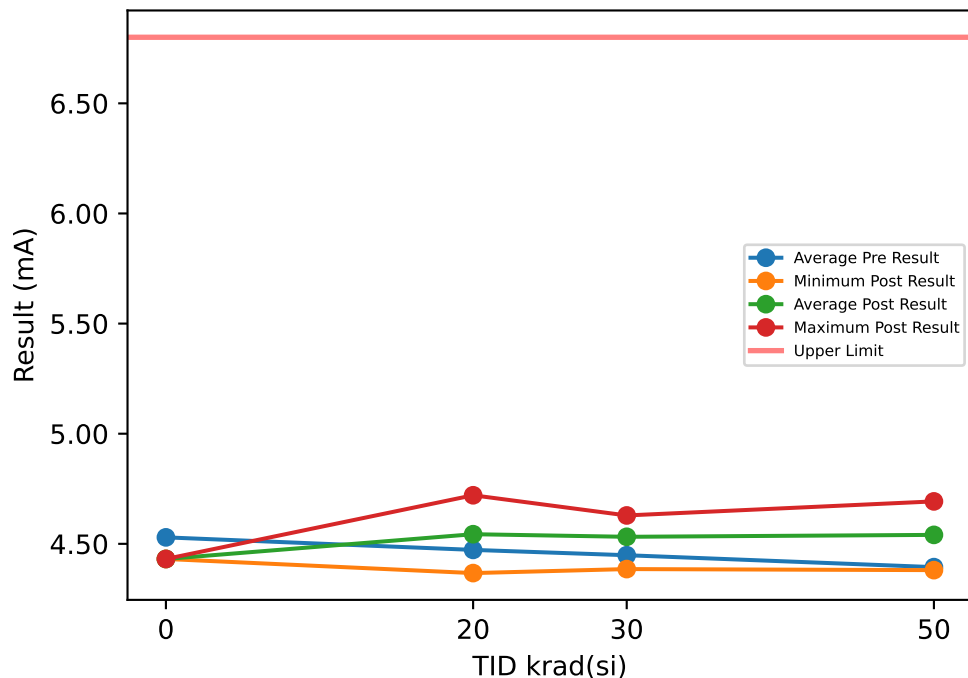


Test Statistics (ns)

| 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 | 5 | 5 | 5 | | 5 | 5 | 5 | | 0 | 0 | 0 | |
| 20 | 5.5 | 5.8 | 6.5 | 0.3496 | 5 | 5.55 | 6.5 | 0.4378 | -0.5 | -0.25 | 0 | 0.26352 |
| 30 | 5 | 5.45 | 6 | 0.28382 | 5 | 5.65 | 6 | 0.41164 | -0.5 | 0.2 | 0.5 | 0.3496 |
| 50 | 5 | 5.45 | 6 | 0.36893 | 5 | 5.45 | 6 | 0.4378 | -0.5 | 0 | 1 | 0.40825 |

Device Test: 35.0 IQ_LS_PWM(_Iq LS VIN PWM VIN_10V)

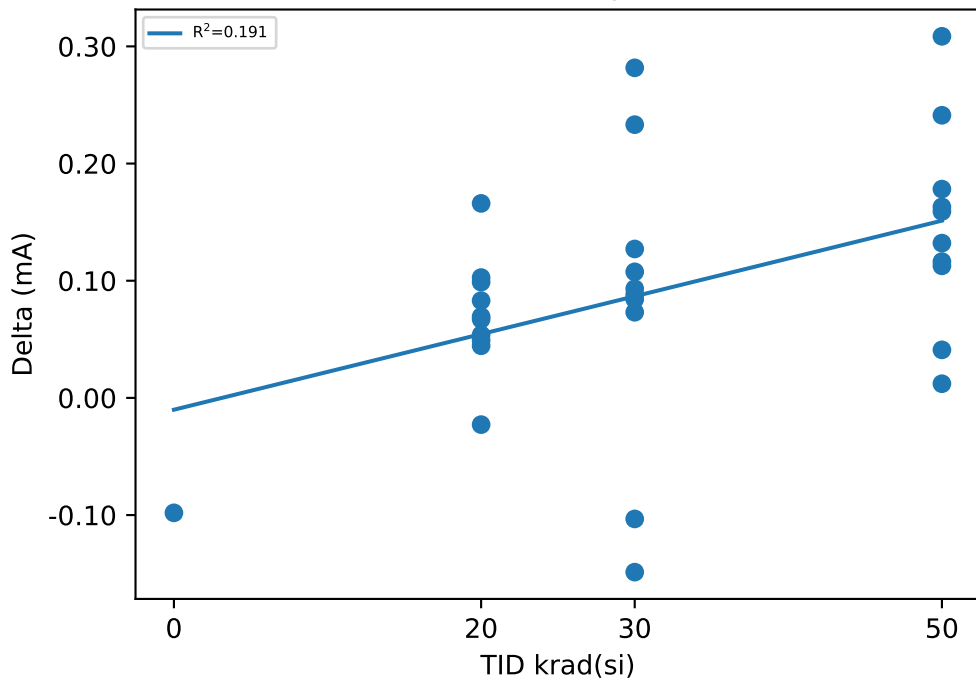
TID vs Result Stats



Test Results (Upper Limit = 6.8 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.5294 | 4.4313 | -0.0981 |
| 321 | 20 | HDR unbiased | 4.4662 | 4.5201 | 0.0539 |
| 322 | 20 | HDR unbiased | 4.3227 | 4.3672 | 0.0445 |
| 323 | 20 | HDR unbiased | 4.299 | 4.3684 | 0.0694 |
| 324 | 20 | HDR unbiased | 4.3766 | 4.4437 | 0.0671 |
| 325 | 20 | HDR unbiased | 4.4221 | 4.4714 | 0.0493 |
| 331 | 30 | HDR unbiased | 4.4822 | 4.5704 | 0.0882 |
| 332 | 30 | HDR unbiased | 4.3502 | 4.4434 | 0.0932 |
| 333 | 30 | HDR unbiased | 4.4818 | 4.5894 | 0.1076 |
| 334 | 30 | HDR unbiased | 4.4805 | 4.5647 | 0.0842 |
| 335 | 30 | HDR unbiased | 4.4407 | 4.5678 | 0.1271 |
| 351 | 50 | HDR unbiased | 4.4058 | 4.4468 | 0.041 |
| 352 | 50 | HDR unbiased | 4.3792 | 4.4955 | 0.1163 |
| 353 | 50 | HDR unbiased | 4.2941 | 4.6027 | 0.3086 |
| 354 | 50 | HDR unbiased | 4.258 | 4.4992 | 0.2412 |
| 355 | 50 | HDR unbiased | 4.3685 | 4.3806 | 0.0121 |
| 521 | 20 | HDR biased | 4.6178 | 4.7205 | 0.1027 |
| 522 | 20 | HDR biased | 4.5418 | 4.6248 | 0.083 |
| 523 | 20 | HDR biased | 4.506 | 4.6048 | 0.0988 |
| 524 | 20 | HDR biased | 4.6315 | 4.6087 | -0.0228 |
| 525 | 20 | HDR biased | 4.5414 | 4.7074 | 0.166 |
| 531 | 30 | HDR biased | 4.3472 | 4.6289 | 0.2817 |
| 532 | 30 | HDR biased | 4.5341 | 4.3854 | -0.1487 |
| 533 | 30 | HDR biased | 4.3687 | 4.6019 | 0.2332 |
| 534 | 30 | HDR biased | 4.4658 | 4.5389 | 0.0731 |
| 535 | 30 | HDR biased | 4.5321 | 4.4288 | -0.1033 |
| 551 | 50 | HDR biased | 4.4309 | 4.59 | 0.1591 |
| 552 | 50 | HDR biased | 4.5297 | 4.6927 | 0.163 |
| 553 | 50 | HDR biased | 4.4286 | 4.5413 | 0.1127 |
| 554 | 50 | HDR biased | 4.4874 | 4.6656 | 0.1782 |
| 555 | 50 | HDR biased | 4.3599 | 4.492 | 0.1321 |

TID vs Post - Pre Exposure Delta

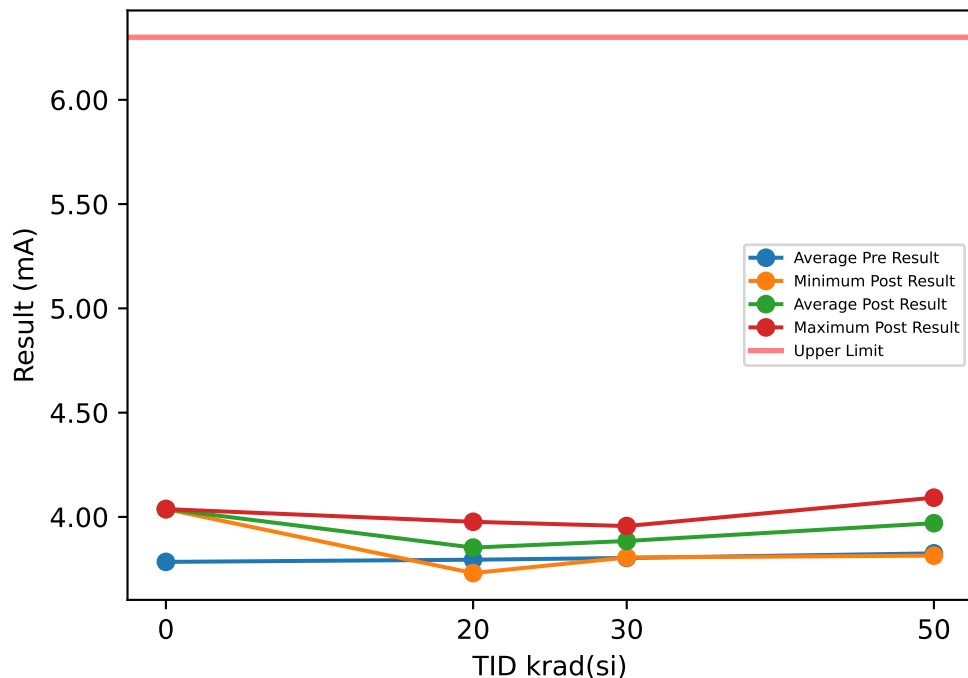


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.5294 | 4.5294 | 4.5294 | | 4.4313 | 4.4313 | 4.4313 | | -0.0981 | -0.0981 | -0.0981 | |
| 20 | 4.299 | 4.4725 | 4.6315 | 0.11613 | 4.3672 | 4.5437 | 4.7205 | 0.12921 | -0.0228 | 0.07119 | 0.166 | 0.048566 |
| 30 | 4.3472 | 4.4483 | 4.5341 | 0.070109 | 4.3854 | 4.532 | 4.6289 | 0.08262 | -0.1487 | 0.08363 | 0.2817 | 0.13047 |
| 50 | 4.258 | 4.3942 | 4.5297 | 0.081883 | 4.3806 | 4.5406 | 4.6927 | 0.097505 | 0.0121 | 0.14643 | 0.3086 | 0.087009 |

Device Test: 35.1 IQ_HS_PWM(Iq HS BOOT PWM VIN_10V)

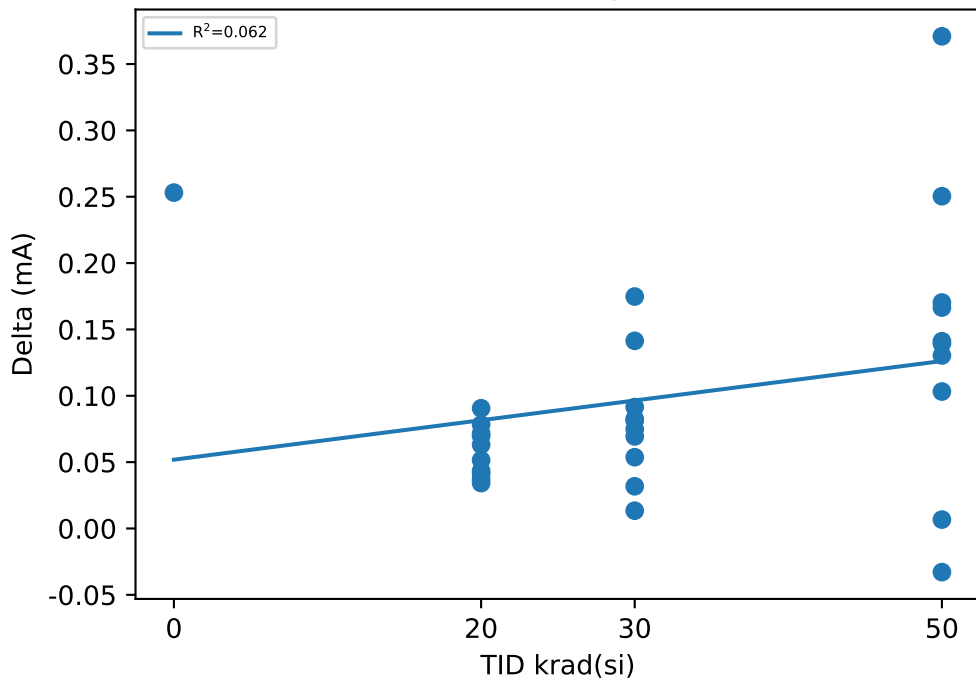
TID vs Result Stats



Test Results (Upper Limit = 6.3 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.7844 | 4.0375 | 0.2531 |
| 321 | 20 | HDR unbiased | 3.6965 | 3.7307 | 0.0342 |
| 322 | 20 | HDR unbiased | 3.9141 | 3.9575 | 0.0434 |
| 323 | 20 | HDR unbiased | 3.9397 | 3.9766 | 0.0369 |
| 324 | 20 | HDR unbiased | 3.7489 | 3.8206 | 0.0717 |
| 325 | 20 | HDR unbiased | 3.7315 | 3.7725 | 0.041 |
| 331 | 30 | HDR unbiased | 3.773 | 3.8477 | 0.0747 |
| 332 | 30 | HDR unbiased | 3.7995 | 3.8821 | 0.0826 |
| 333 | 30 | HDR unbiased | 3.7525 | 3.8219 | 0.0694 |
| 334 | 30 | HDR unbiased | 3.8814 | 3.9351 | 0.0537 |
| 335 | 30 | HDR unbiased | 3.7761 | 3.8676 | 0.0915 |
| 351 | 50 | HDR unbiased | 3.7213 | 4.0922 | 0.3709 |
| 352 | 50 | HDR unbiased | 3.8389 | 3.98 | 0.1411 |
| 353 | 50 | HDR unbiased | 3.94 | 3.9071 | -0.0329 |
| 354 | 50 | HDR unbiased | 3.9113 | 3.918 | 0.0067 |
| 355 | 50 | HDR unbiased | 3.7862 | 4.0366 | 0.2504 |
| 521 | 20 | HDR biased | 3.8729 | 3.936 | 0.0631 |
| 522 | 20 | HDR biased | 3.8063 | 3.876 | 0.0697 |
| 523 | 20 | HDR biased | 3.7596 | 3.8111 | 0.0515 |
| 524 | 20 | HDR biased | 3.7328 | 3.8234 | 0.0906 |
| 525 | 20 | HDR biased | 3.7463 | 3.8246 | 0.0783 |
| 531 | 30 | HDR biased | 3.8458 | 3.8776 | 0.0318 |
| 532 | 30 | HDR biased | 3.7584 | 3.9332 | 0.1748 |
| 533 | 30 | HDR biased | 3.7921 | 3.8055 | 0.0134 |
| 534 | 30 | HDR biased | 3.8751 | 3.9563 | 0.0812 |
| 535 | 30 | HDR biased | 3.7779 | 3.9193 | 0.1414 |
| 551 | 50 | HDR biased | 3.9171 | 4.0203 | 0.1032 |
| 552 | 50 | HDR biased | 3.8669 | 3.9973 | 0.1304 |
| 553 | 50 | HDR biased | 3.8929 | 4.0632 | 0.1703 |
| 554 | 50 | HDR biased | 3.7305 | 3.8699 | 0.1394 |
| 555 | 50 | HDR biased | 3.6478 | 3.8143 | 0.1665 |

TID vs Post - Pre Exposure Delta

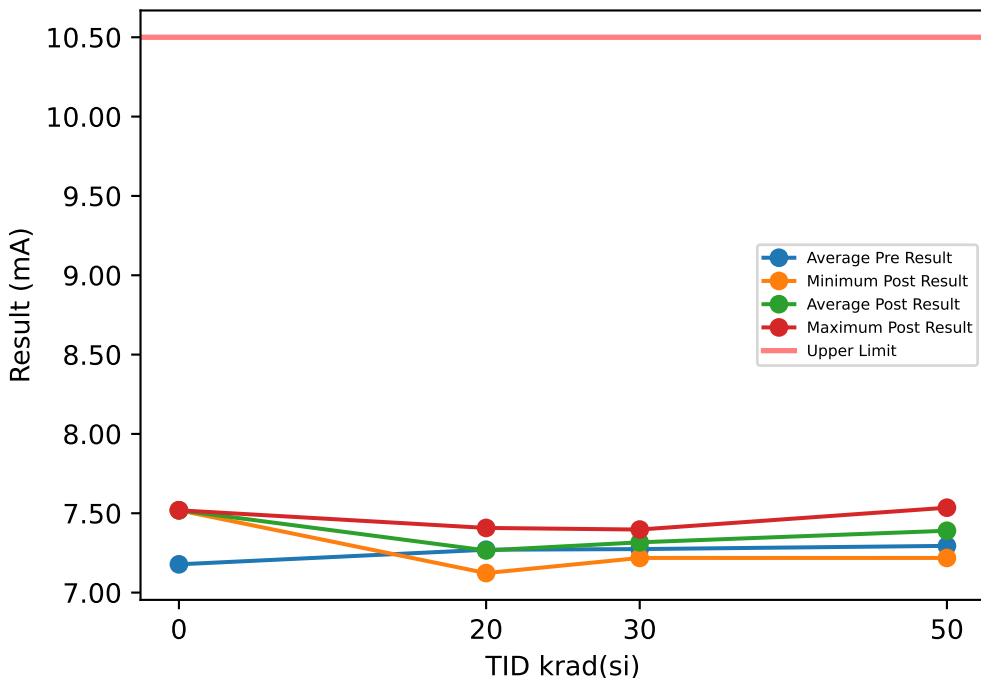


Test Statistics (mA)

| 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 | 3.7844 | 3.7844 | 3.7844 | | 4.0375 | 4.0375 | 4.0375 | | 0.2531 | 0.2531 | 0.2531 | |
| 20 | 3.6965 | 3.7949 | 3.9397 | 0.084769 | 3.7307 | 3.8529 | 3.9766 | 0.081337 | 0.0342 | 0.05804 | 0.0906 | 0.019384 |
| 30 | 3.7525 | 3.8032 | 3.8814 | 0.047259 | 3.8055 | 3.8846 | 3.9563 | 0.050718 | 0.0134 | 0.08145 | 0.1748 | 0.047688 |
| 50 | 3.6478 | 3.8253 | 3.94 | 0.099053 | 3.8143 | 3.9699 | 4.0922 | 0.089662 | -0.0329 | 0.1446 | 0.3709 | 0.11354 |

Device Test: 35.11 I_OP_HS_PWM_2MHZ(_lop HS BOOT PWM 2MHz VIN_10V)

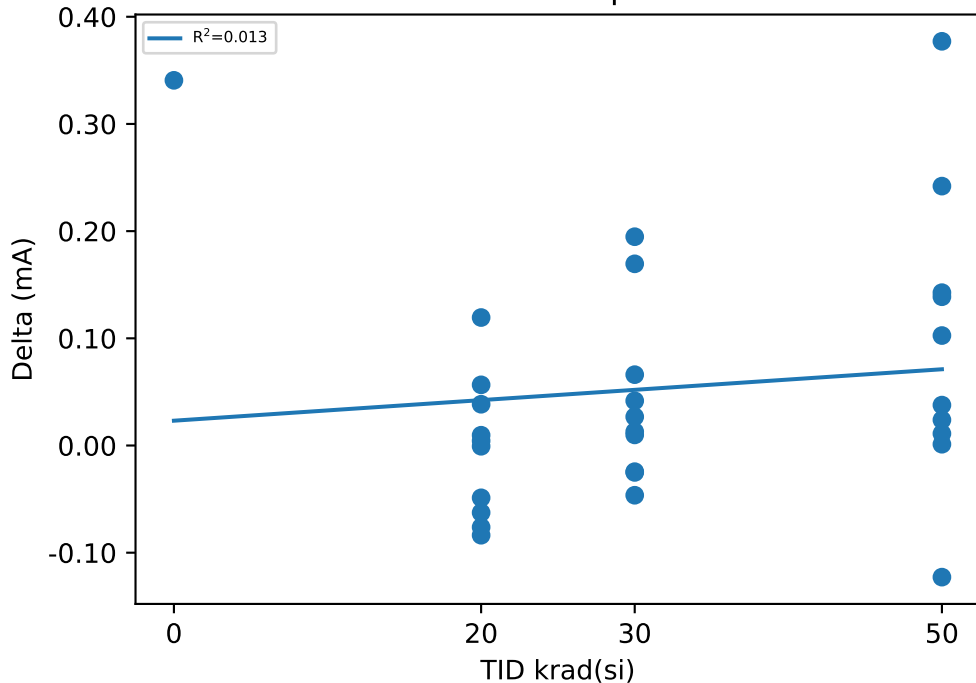
TID vs Result Stats



Test Results (Upper Limit = 10.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.1781 | 7.5188 | 0.3407 |
| 321 | 20 | HDR unbiased | 7.2066 | 7.1229 | -0.0837 |
| 322 | 20 | HDR unbiased | 7.4562 | 7.38 | -0.0762 |
| 323 | 20 | HDR unbiased | 7.3509 | 7.4075 | 0.0566 |
| 324 | 20 | HDR unbiased | 7.2677 | 7.267 | -0.0007 |
| 325 | 20 | HDR unbiased | 7.1648 | 7.2033 | 0.0385 |
| 331 | 30 | HDR unbiased | 7.209 | 7.2751 | 0.0661 |
| 332 | 30 | HDR unbiased | 7.2025 | 7.3973 | 0.1948 |
| 333 | 30 | HDR unbiased | 7.2055 | 7.2184 | 0.0129 |
| 334 | 30 | HDR unbiased | 7.3914 | 7.3663 | -0.0251 |
| 335 | 30 | HDR unbiased | 7.2956 | 7.3055 | 0.0099 |
| 351 | 50 | HDR unbiased | 7.1579 | 7.535 | 0.3771 |
| 352 | 50 | HDR unbiased | 7.3637 | 7.3649 | 0.0012 |
| 353 | 50 | HDR unbiased | 7.456 | 7.3332 | -0.1228 |
| 354 | 50 | HDR unbiased | 7.3473 | 7.3584 | 0.0111 |
| 355 | 50 | HDR unbiased | 7.314 | 7.4166 | 0.1026 |
| 521 | 20 | HDR biased | 7.372 | 7.3094 | -0.0626 |
| 522 | 20 | HDR biased | 7.3273 | 7.3369 | 0.0096 |
| 523 | 20 | HDR biased | 7.196 | 7.2004 | 0.0044 |
| 524 | 20 | HDR biased | 7.1223 | 7.2417 | 0.1194 |
| 525 | 20 | HDR biased | 7.2362 | 7.1874 | -0.0488 |
| 531 | 30 | HDR biased | 7.2839 | 7.3107 | 0.0268 |
| 532 | 30 | HDR biased | 7.1947 | 7.3642 | 0.1695 |
| 533 | 30 | HDR biased | 7.2696 | 7.2452 | -0.0244 |
| 534 | 30 | HDR biased | 7.3941 | 7.3477 | -0.0464 |
| 535 | 30 | HDR biased | 7.2957 | 7.3374 | 0.0417 |
| 551 | 50 | HDR biased | 7.4275 | 7.4514 | 0.0239 |
| 552 | 50 | HDR biased | 7.2437 | 7.4857 | 0.242 |
| 553 | 50 | HDR biased | 7.3993 | 7.437 | 0.0377 |
| 554 | 50 | HDR biased | 7.1588 | 7.2976 | 0.1388 |
| 555 | 50 | HDR biased | 7.0757 | 7.2183 | 0.1426 |

TID vs Post - Pre Exposure Delta

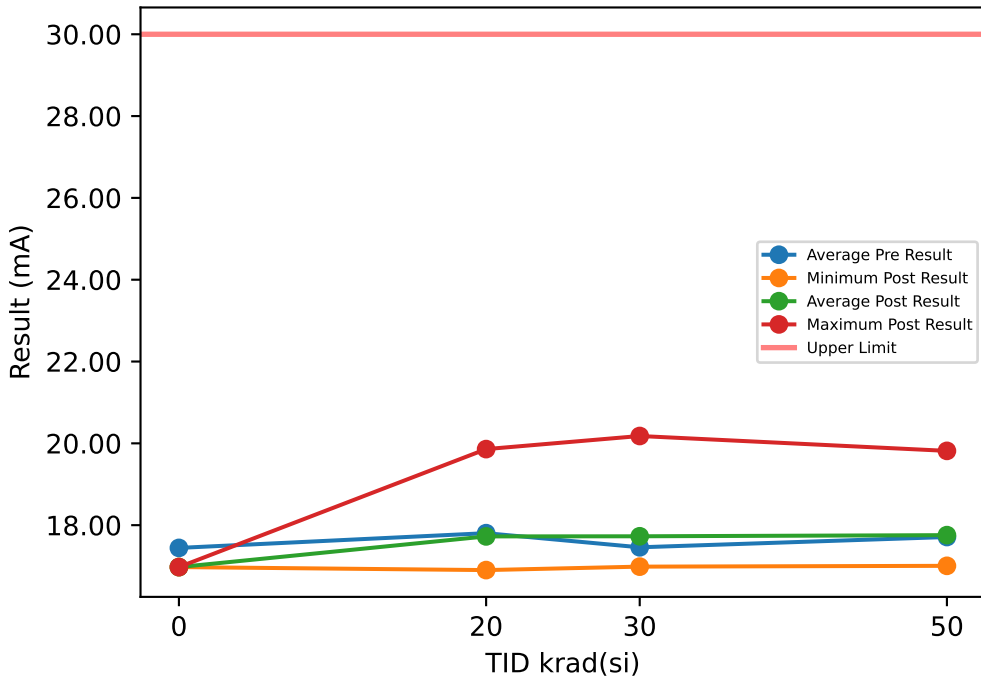


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.1781 | 7.1781 | 7.1781 | | 7.5188 | 7.5188 | 7.5188 | | 0.3407 | 0.3407 | 0.3407 | |
| 20 | 7.1223 | 7.27 | 7.4562 | 0.10458 | 7.1229 | 7.2656 | 7.4075 | 0.091536 | -0.0837 | -0.00435 | 0.1194 | 0.064959 |
| 30 | 7.1947 | 7.2742 | 7.3941 | 0.074221 | 7.2184 | 7.3168 | 7.3973 | 0.057028 | -0.0464 | 0.04258 | 0.1948 | 0.080977 |
| 50 | 7.0757 | 7.2944 | 7.456 | 0.1292 | 7.2183 | 7.3898 | 7.535 | 0.094129 | -0.1228 | 0.09542 | 0.3771 | 0.14025 |

Device Test: 35.12 I_OP_LS_PWM_5MHZ(Iop LS VIN PWM 5MHz VIN_10V)

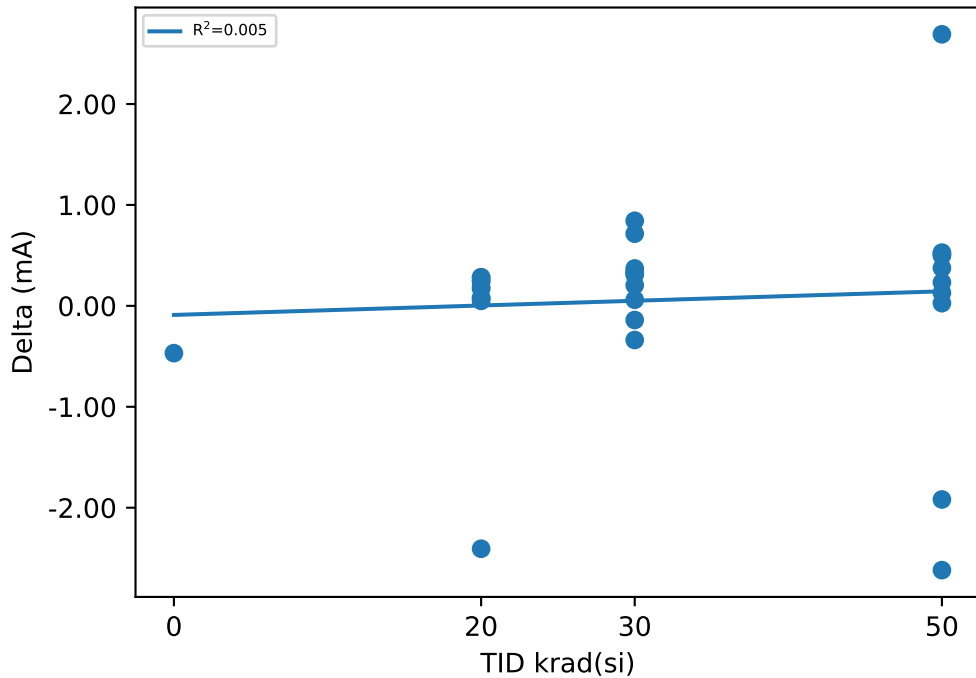
TID vs Result Stats



Test Results (Upper Limit = 30.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 17.444 | 16.975 | -0.4685 |
| 321 | 20 | HDR unbiased | 17.332 | 17.411 | 0.079 |
| 322 | 20 | HDR unbiased | 17.091 | 17.14 | 0.0495 |
| 323 | 20 | HDR unbiased | 19.309 | 16.902 | -2.4068 |
| 324 | 20 | HDR unbiased | 19.782 | 19.859 | 0.0775 |
| 325 | 20 | HDR unbiased | 17 | 17.242 | 0.2427 |
| 331 | 30 | HDR unbiased | 17.311 | 17.649 | 0.3381 |
| 332 | 30 | HDR unbiased | 19.809 | 20.18 | 0.3707 |
| 333 | 30 | HDR unbiased | 17.519 | 17.847 | 0.3283 |
| 334 | 30 | HDR unbiased | 17.237 | 17.442 | 0.2047 |
| 335 | 30 | HDR unbiased | 17.108 | 17.417 | 0.309 |
| 351 | 50 | HDR unbiased | 17.125 | 19.816 | 2.6907 |
| 352 | 50 | HDR unbiased | 17.094 | 17.121 | 0.0268 |
| 353 | 50 | HDR unbiased | 19.746 | 17.827 | -1.9183 |
| 354 | 50 | HDR unbiased | 16.874 | 17.402 | 0.5278 |
| 355 | 50 | HDR unbiased | 17.08 | 17.313 | 0.2327 |
| 521 | 20 | HDR biased | 17.707 | 17.875 | 0.1686 |
| 522 | 20 | HDR biased | 17.274 | 17.523 | 0.2494 |
| 523 | 20 | HDR biased | 17.436 | 17.718 | 0.2823 |
| 524 | 20 | HDR biased | 17.519 | 17.802 | 0.2833 |
| 525 | 20 | HDR biased | 17.595 | 17.779 | 0.1839 |
| 531 | 30 | HDR biased | 16.783 | 17.626 | 0.843 |
| 532 | 30 | HDR biased | 17.327 | 17.187 | -0.1403 |
| 533 | 30 | HDR biased | 16.997 | 17.713 | 0.7156 |
| 534 | 30 | HDR biased | 17.175 | 17.235 | 0.0607 |
| 535 | 30 | HDR biased | 17.324 | 16.986 | -0.3382 |
| 551 | 50 | HDR biased | 17.589 | 17.965 | 0.3761 |
| 552 | 50 | HDR biased | 17.171 | 17.669 | 0.4981 |
| 553 | 50 | HDR biased | 17.575 | 17.704 | 0.1291 |
| 554 | 50 | HDR biased | 17.223 | 17.738 | 0.5145 |
| 555 | 50 | HDR biased | 19.624 | 17.006 | -2.6185 |

TID vs Post - Pre Exposure Delta

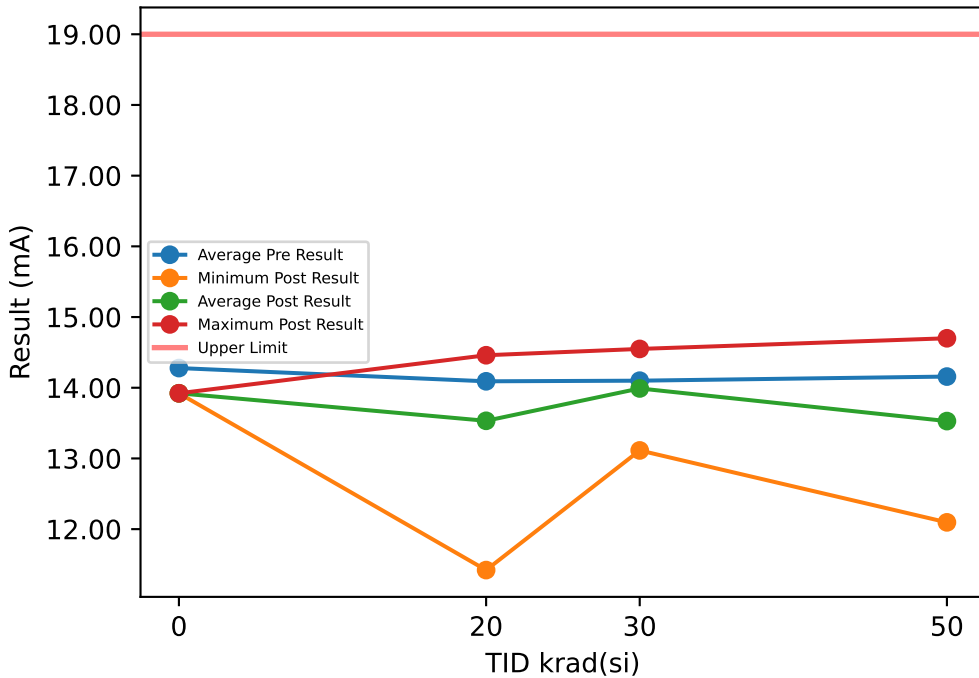


Test Statistics (mA)

| 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 | 17.444 | 17.444 | 17.444 | | 16.975 | 16.975 | 16.975 | | -0.4685 | -0.4685 | -0.4685 | |
| 20 | 17 | 17.804 | 19.782 | 0.94902 | 16.902 | 17.725 | 19.859 | 0.81504 | -2.4068 | -0.07906 | 0.2833 | 0.82247 |
| 30 | 16.783 | 17.459 | 19.809 | 0.85024 | 16.986 | 17.728 | 20.18 | 0.90092 | -0.3382 | 0.26916 | 0.843 | 0.35479 |
| 50 | 16.874 | 17.71 | 19.746 | 1.0639 | 17.006 | 17.756 | 19.816 | 0.78819 | -2.6185 | 0.0459 | 2.6907 | 1.4437 |

Device Test: 35.13 I_OP_HS_PWM_5MHZ(_lop HS BOOT PWM 5MHz VIN_10V)

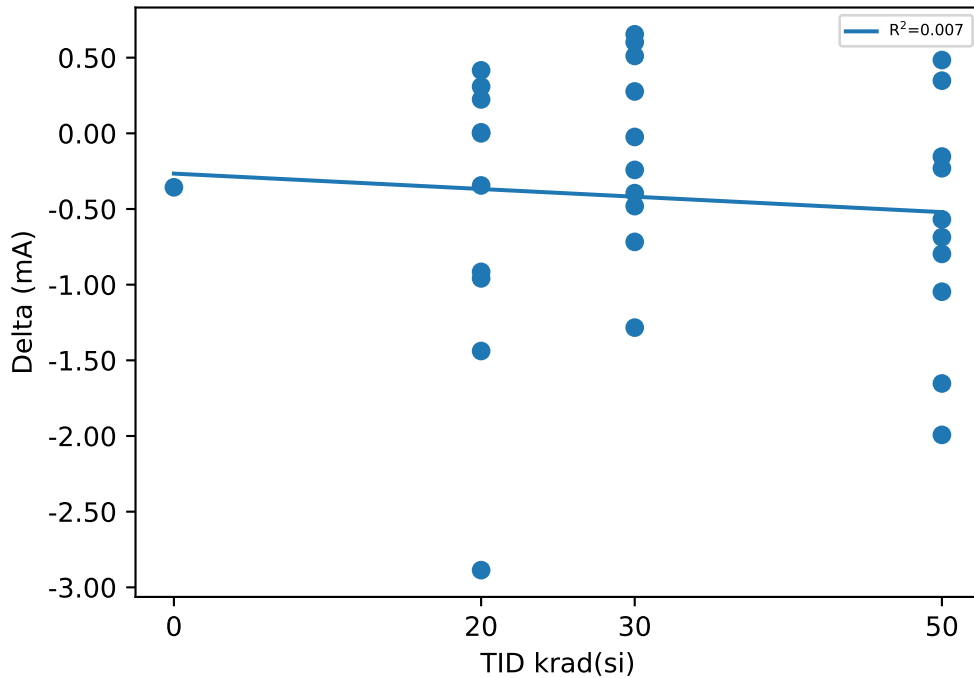
TID vs Result Stats



Test Results (Upper Limit = 19.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 14.278 | 13.922 | -0.3567 |
| 321 | 20 | HDR unbiased | 14.165 | 13.25 | -0.9154 |
| 322 | 20 | HDR unbiased | 14.46 | 14.46 | -0.0001 |
| 323 | 20 | HDR unbiased | 14.164 | 14.171 | 0.0068 |
| 324 | 20 | HDR unbiased | 14.3 | 13.956 | -0.3444 |
| 325 | 20 | HDR unbiased | 14.344 | 12.905 | -1.4384 |
| 331 | 30 | HDR unbiased | 14.166 | 13.448 | -0.7173 |
| 332 | 30 | HDR unbiased | 14.146 | 13.904 | -0.2417 |
| 333 | 30 | HDR unbiased | 14.397 | 13.113 | -1.2838 |
| 334 | 30 | HDR unbiased | 14.152 | 13.757 | -0.3951 |
| 335 | 30 | HDR unbiased | 14.482 | 14.458 | -0.024 |
| 351 | 50 | HDR unbiased | 14.352 | 14.7 | 0.3479 |
| 352 | 50 | HDR unbiased | 14.04 | 13.809 | -0.2308 |
| 353 | 50 | HDR unbiased | 14.089 | 12.096 | -1.9926 |
| 354 | 50 | HDR unbiased | 14.289 | 12.636 | -1.6528 |
| 355 | 50 | HDR unbiased | 14.368 | 13.799 | -0.5686 |
| 521 | 20 | HDR biased | 14.539 | 13.58 | -0.9585 |
| 522 | 20 | HDR biased | 13.874 | 14.29 | 0.4161 |
| 523 | 20 | HDR biased | 13.629 | 13.938 | 0.309 |
| 524 | 20 | HDR biased | 13.128 | 13.352 | 0.224 |
| 525 | 20 | HDR biased | 14.307 | 11.421 | -2.8863 |
| 531 | 30 | HDR biased | 14.114 | 13.633 | -0.481 |
| 532 | 30 | HDR biased | 13.83 | 14.484 | 0.6543 |
| 533 | 30 | HDR biased | 13.472 | 14.074 | 0.6023 |
| 534 | 30 | HDR biased | 13.969 | 14.48 | 0.5113 |
| 535 | 30 | HDR biased | 14.272 | 14.549 | 0.2767 |
| 551 | 50 | HDR biased | 14.178 | 13.492 | -0.6865 |
| 552 | 50 | HDR biased | 13.842 | 13.689 | -0.1534 |
| 553 | 50 | HDR biased | 14.285 | 13.488 | -0.7967 |
| 554 | 50 | HDR biased | 14.205 | 13.158 | -1.0466 |
| 555 | 50 | HDR biased | 13.933 | 14.418 | 0.4842 |

TID vs Post - Pre Exposure Delta

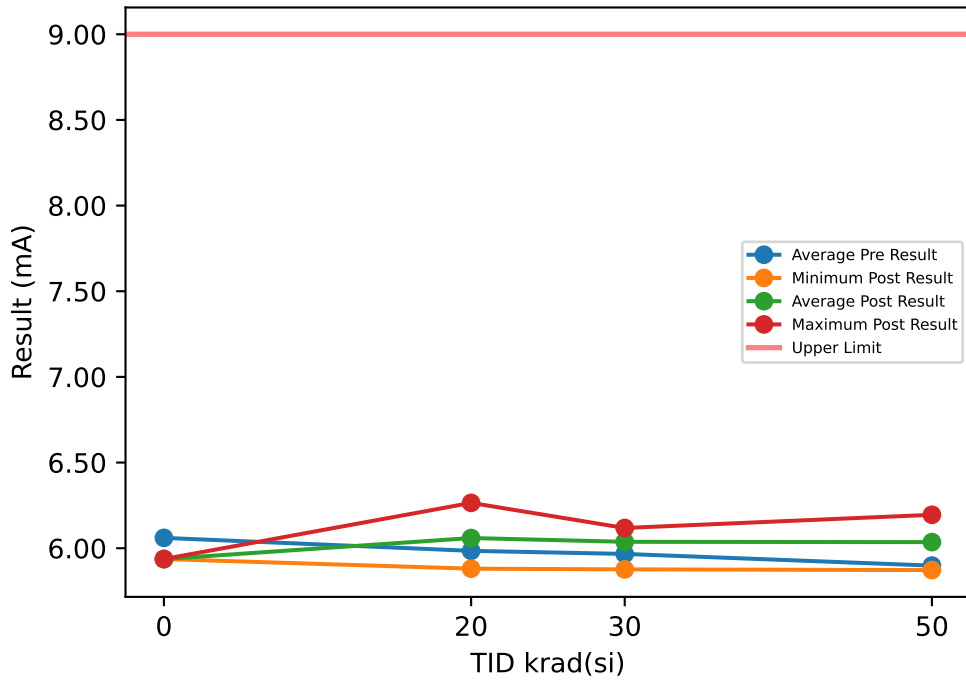


Test Statistics (mA)

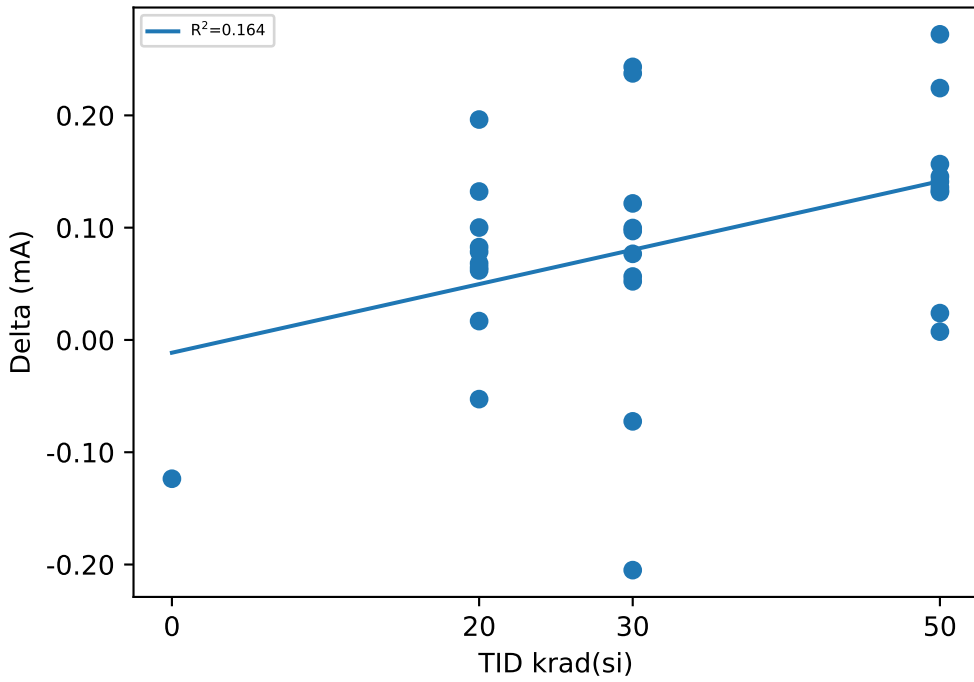
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 14.278 | 14.278 | 14.278 | | 13.922 | 13.922 | 13.922 | | -0.3567 | -0.3567 | -0.3567 | |
| 20 | 13.128 | 14.091 | 14.539 | 0.43313 | 11.421 | 13.532 | 14.46 | 0.89145 | -2.8863 | -0.55872 | 0.4161 | 1.0259 |
| 30 | 13.472 | 14.1 | 14.482 | 0.29027 | 13.113 | 13.99 | 14.549 | 0.50255 | -1.2838 | -0.10983 | 0.6543 | 0.63398 |
| 50 | 13.842 | 14.158 | 14.368 | 0.17838 | 12.096 | 13.528 | 14.7 | 0.76944 | -1.9926 | -0.62959 | 0.4842 | 0.7955 |

Device Test: 35.14 I_OP_LS_IIM_500KHZ(_lop LS VIN IIM Interlock 500kHz VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 9.0 (mA))

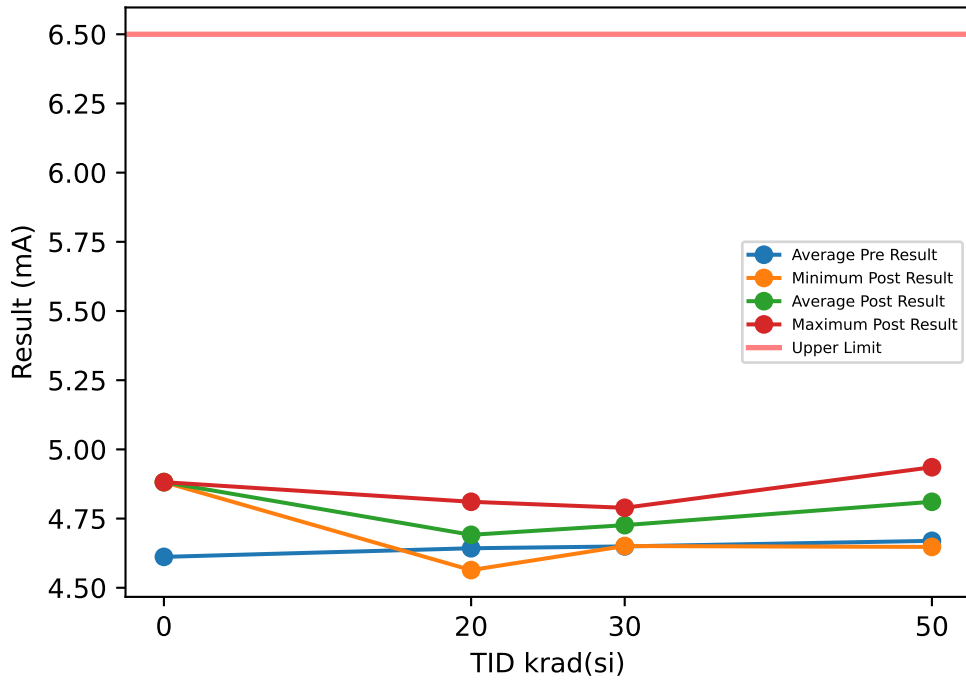
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.0605 | 5.9369 | -0.1236 |
| 321 | 20 | HDR unbiased | 5.9622 | 6.0407 | 0.0785 |
| 322 | 20 | HDR unbiased | 5.8224 | 5.8906 | 0.0682 |
| 323 | 20 | HDR unbiased | 5.8161 | 5.8806 | 0.0645 |
| 324 | 20 | HDR unbiased | 5.8421 | 5.904 | 0.0619 |
| 325 | 20 | HDR unbiased | 5.9649 | 5.9817 | 0.0168 |
| 331 | 30 | HDR unbiased | 6.0198 | 6.072 | 0.0522 |
| 332 | 30 | HDR unbiased | 5.9046 | 5.9611 | 0.0565 |
| 333 | 30 | HDR unbiased | 5.9939 | 6.0936 | 0.0997 |
| 334 | 30 | HDR unbiased | 5.9834 | 6.0601 | 0.0767 |
| 335 | 30 | HDR unbiased | 5.9341 | 6.0557 | 0.1216 |
| 351 | 50 | HDR unbiased | 5.9132 | 5.9371 | 0.0239 |
| 352 | 50 | HDR unbiased | 5.8503 | 5.9862 | 0.1359 |
| 353 | 50 | HDR unbiased | 5.7957 | 6.0679 | 0.2722 |
| 354 | 50 | HDR unbiased | 5.7593 | 5.9836 | 0.2243 |
| 355 | 50 | HDR unbiased | 5.865 | 5.8724 | 0.0074 |
| 521 | 20 | HDR biased | 6.1324 | 6.2646 | 0.1322 |
| 522 | 20 | HDR biased | 6.0436 | 6.1263 | 0.0827 |
| 523 | 20 | HDR biased | 6.0562 | 6.1563 | 0.1001 |
| 524 | 20 | HDR biased | 6.1633 | 6.1106 | -0.0527 |
| 525 | 20 | HDR biased | 6.0436 | 6.2399 | 0.1963 |
| 531 | 30 | HDR biased | 5.8808 | 6.1182 | 0.2374 |
| 532 | 30 | HDR biased | 6.0816 | 5.8766 | -0.205 |
| 533 | 30 | HDR biased | 5.8696 | 6.1128 | 0.2432 |
| 534 | 30 | HDR biased | 5.9708 | 6.0678 | 0.097 |
| 535 | 30 | HDR biased | 6.0288 | 5.9563 | -0.0725 |
| 551 | 50 | HDR biased | 5.9468 | 6.1034 | 0.1566 |
| 552 | 50 | HDR biased | 6.0623 | 6.1951 | 0.1328 |
| 553 | 50 | HDR biased | 5.9229 | 6.0639 | 0.141 |
| 554 | 50 | HDR biased | 6.0032 | 6.1487 | 0.1455 |
| 555 | 50 | HDR biased | 5.8664 | 5.9981 | 0.1317 |

Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.0605 | 6.0605 | 6.0605 | | 5.9369 | 5.9369 | 5.9369 | | -0.1236 | -0.1236 | -0.1236 | |
| 20 | 5.8161 | 5.9847 | 6.1633 | 0.12551 | 5.8806 | 6.0595 | 6.2646 | 0.14227 | -0.0527 | 0.07485 | 0.1963 | 0.065582 |
| 30 | 5.8696 | 5.9667 | 6.0816 | 0.068831 | 5.8766 | 6.0374 | 6.1182 | 0.079302 | -0.205 | 0.07068 | 0.2432 | 0.13282 |
| 50 | 5.7593 | 5.8985 | 6.0623 | 0.091504 | 5.8724 | 6.0356 | 6.1951 | 0.098635 | 0.0074 | 0.13713 | 0.2722 | 0.078886 |

Device Test: 35.15 I_OP_HS_IIM_500KHZ(_Iop HS BOOT IIM Interlock 500kHz VIN_10V)

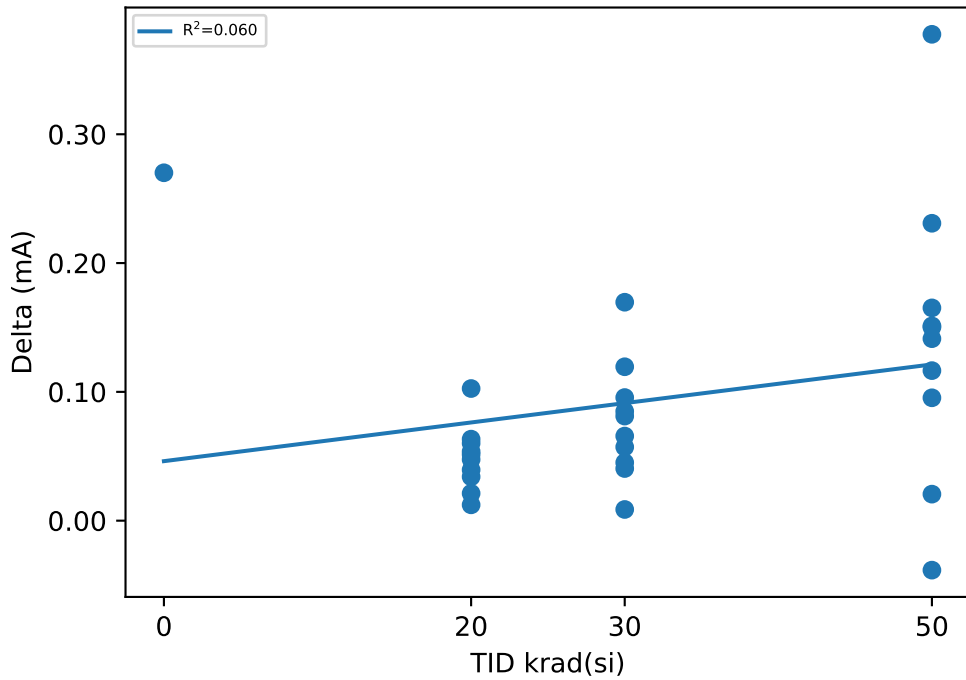
TID vs Result Stats



Test Results (Upper Limit = 6.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.6116 | 4.8817 | 0.2701 |
| 321 | 20 | HDR unbiased | 4.5516 | 4.5639 | 0.0123 |
| 322 | 20 | HDR unbiased | 4.7763 | 4.7975 | 0.0212 |
| 323 | 20 | HDR unbiased | 4.7766 | 4.8107 | 0.0341 |
| 324 | 20 | HDR unbiased | 4.6091 | 4.6724 | 0.0633 |
| 325 | 20 | HDR unbiased | 4.5661 | 4.6175 | 0.0514 |
| 331 | 30 | HDR unbiased | 4.6075 | 4.6924 | 0.0849 |
| 332 | 30 | HDR unbiased | 4.6389 | 4.7345 | 0.0956 |
| 333 | 30 | HDR unbiased | 4.5941 | 4.6598 | 0.0657 |
| 334 | 30 | HDR unbiased | 4.7368 | 4.7819 | 0.0451 |
| 335 | 30 | HDR unbiased | 4.6313 | 4.7125 | 0.0812 |
| 351 | 50 | HDR unbiased | 4.5579 | 4.9355 | 0.3776 |
| 352 | 50 | HDR unbiased | 4.694 | 4.8105 | 0.1165 |
| 353 | 50 | HDR unbiased | 4.7932 | 4.7548 | -0.0384 |
| 354 | 50 | HDR unbiased | 4.7454 | 4.766 | 0.0206 |
| 355 | 50 | HDR unbiased | 4.6419 | 4.8728 | 0.2309 |
| 521 | 20 | HDR biased | 4.7248 | 4.7643 | 0.0395 |
| 522 | 20 | HDR biased | 4.6629 | 4.723 | 0.0601 |
| 523 | 20 | HDR biased | 4.5939 | 4.6414 | 0.0475 |
| 524 | 20 | HDR biased | 4.5663 | 4.6689 | 0.1026 |
| 525 | 20 | HDR biased | 4.6001 | 4.6538 | 0.0537 |
| 531 | 30 | HDR biased | 4.6836 | 4.7241 | 0.0405 |
| 532 | 30 | HDR biased | 4.5933 | 4.7629 | 0.1696 |
| 533 | 30 | HDR biased | 4.6421 | 4.6508 | 0.0087 |
| 534 | 30 | HDR biased | 4.7318 | 4.789 | 0.0572 |
| 535 | 30 | HDR biased | 4.6355 | 4.755 | 0.1195 |
| 551 | 50 | HDR biased | 4.7696 | 4.865 | 0.0954 |
| 552 | 50 | HDR biased | 4.7013 | 4.8426 | 0.1413 |
| 553 | 50 | HDR biased | 4.7451 | 4.8953 | 0.1502 |
| 554 | 50 | HDR biased | 4.5651 | 4.7163 | 0.1512 |
| 555 | 50 | HDR biased | 4.4824 | 4.6476 | 0.1652 |

TID vs Post - Pre Exposure Delta

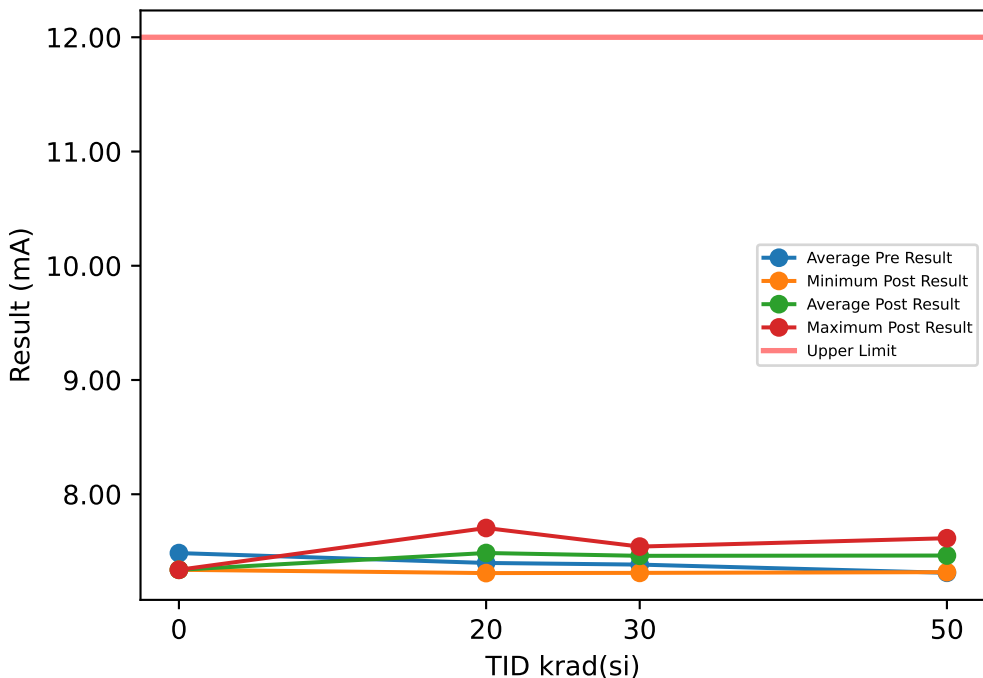


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.6116 | 4.6116 | 4.6116 | | 4.8817 | 4.8817 | 4.8817 | | 0.2701 | 0.2701 | 0.2701 | |
| 20 | 4.5516 | 4.6428 | 4.7766 | 0.087086 | 4.5639 | 4.6913 | 4.8107 | 0.080485 | 0.0123 | 0.04857 | 0.1026 | 0.02508 |
| 30 | 4.5933 | 4.6495 | 4.7368 | 0.051901 | 4.6508 | 4.7263 | 4.789 | 0.047982 | 0.0087 | 0.0768 | 0.1696 | 0.045143 |
| 50 | 4.4824 | 4.6696 | 4.7932 | 0.1041 | 4.6476 | 4.8106 | 4.9355 | 0.088939 | -0.0384 | 0.14105 | 0.3776 | 0.11264 |

Device Test: 35.16 I_OP_LS_IIM_1MHZ(_lop LS VIN IIM Interlock 1MHz VIN_10V)

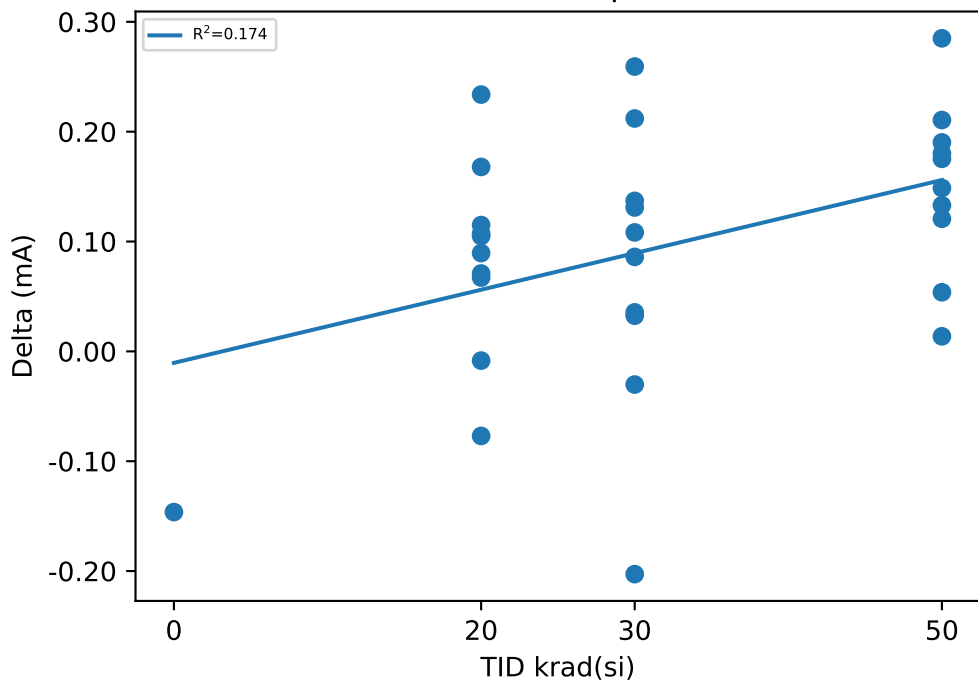
TID vs Result Stats



Test Results (Upper Limit = 12.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.485 | 7.3387 | -0.1463 |
| 321 | 20 | HDR unbiased | 7.3706 | 7.4856 | 0.115 |
| 322 | 20 | HDR unbiased | 7.2278 | 7.3328 | 0.105 |
| 323 | 20 | HDR unbiased | 7.2495 | 7.3204 | 0.0709 |
| 324 | 20 | HDR unbiased | 7.2427 | 7.3099 | 0.0672 |
| 325 | 20 | HDR unbiased | 7.3955 | 7.3871 | -0.0084 |
| 331 | 30 | HDR unbiased | 7.4515 | 7.484 | 0.0325 |
| 332 | 30 | HDR unbiased | 7.3367 | 7.3722 | 0.0355 |
| 333 | 30 | HDR unbiased | 7.4336 | 7.5419 | 0.1083 |
| 334 | 30 | HDR unbiased | 7.3877 | 7.4737 | 0.086 |
| 335 | 30 | HDR unbiased | 7.3394 | 7.4704 | 0.131 |
| 351 | 50 | HDR unbiased | 7.3391 | 7.3528 | 0.0137 |
| 352 | 50 | HDR unbiased | 7.2468 | 7.4271 | 0.1803 |
| 353 | 50 | HDR unbiased | 7.1949 | 7.4799 | 0.285 |
| 354 | 50 | HDR unbiased | 7.1893 | 7.3999 | 0.2106 |
| 355 | 50 | HDR unbiased | 7.2642 | 7.318 | 0.0538 |
| 521 | 20 | HDR biased | 7.5366 | 7.7045 | 0.1679 |
| 522 | 20 | HDR biased | 7.445 | 7.5345 | 0.0895 |
| 523 | 20 | HDR biased | 7.4854 | 7.5926 | 0.1072 |
| 524 | 20 | HDR biased | 7.5915 | 7.5145 | -0.077 |
| 525 | 20 | HDR biased | 7.4413 | 7.6751 | 0.2338 |
| 531 | 30 | HDR biased | 7.3137 | 7.5257 | 0.212 |
| 532 | 30 | HDR biased | 7.5145 | 7.3117 | -0.2028 |
| 533 | 30 | HDR biased | 7.2636 | 7.5229 | 0.2593 |
| 534 | 30 | HDR biased | 7.3731 | 7.5101 | 0.137 |
| 535 | 30 | HDR biased | 7.4279 | 7.3977 | -0.0302 |
| 551 | 50 | HDR biased | 7.3487 | 7.524 | 0.1753 |
| 552 | 50 | HDR biased | 7.4944 | 7.6151 | 0.1207 |
| 553 | 50 | HDR biased | 7.3221 | 7.5123 | 0.1902 |
| 554 | 50 | HDR biased | 7.4329 | 7.5659 | 0.133 |
| 555 | 50 | HDR biased | 7.2921 | 7.4408 | 0.1487 |

TID vs Post - Pre Exposure Delta

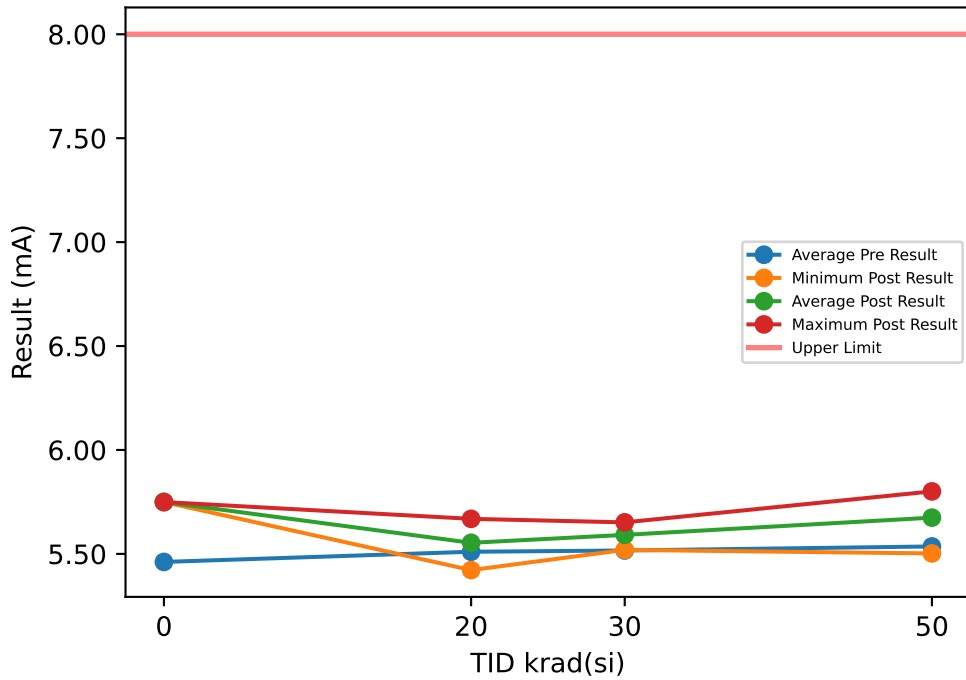


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.485 | 7.485 | 7.485 | | 7.3387 | 7.3387 | 7.3387 | | -0.1463 | -0.1463 | -0.1463 | |
| 20 | 7.2278 | 7.3986 | 7.5915 | 0.12661 | 7.3099 | 7.4857 | 7.7045 | 0.14519 | -0.077 | 0.08711 | 0.2338 | 0.085807 |
| 30 | 7.2636 | 7.3842 | 7.5145 | 0.074365 | 7.3117 | 7.461 | 7.5419 | 0.075964 | -0.2028 | 0.07686 | 0.2593 | 0.13018 |
| 50 | 7.1893 | 7.3125 | 7.4944 | 0.09762 | 7.318 | 7.4636 | 7.6151 | 0.093742 | 0.0137 | 0.15113 | 0.285 | 0.077488 |

Device Test: 35.17 I_OP_HS_IIM_1MHZ(_Iop HS BOOT IIM Interlock 1MHz VIN_10V)

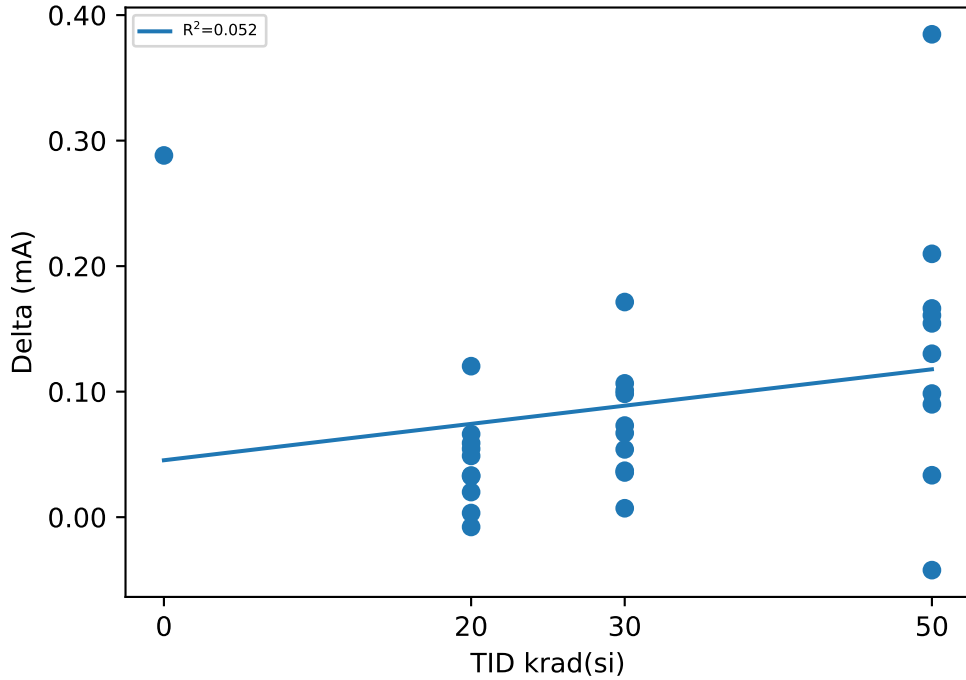
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.4613 | 5.7495 | 0.2882 |
| 321 | 20 | HDR unbiased | 5.4299 | 5.4221 | -0.0078 |
| 322 | 20 | HDR unbiased | 5.6578 | 5.6611 | 0.0033 |
| 323 | 20 | HDR unbiased | 5.636 | 5.6686 | 0.0326 |
| 324 | 20 | HDR unbiased | 5.4869 | 5.5459 | 0.059 |
| 325 | 20 | HDR unbiased | 5.4204 | 5.4866 | 0.0662 |
| 331 | 30 | HDR unbiased | 5.4628 | 5.5611 | 0.0983 |
| 332 | 30 | HDR unbiased | 5.4994 | 5.606 | 0.1066 |
| 333 | 30 | HDR unbiased | 5.4555 | 5.5225 | 0.067 |
| 334 | 30 | HDR unbiased | 5.6147 | 5.6517 | 0.037 |
| 335 | 30 | HDR unbiased | 5.5086 | 5.5816 | 0.073 |
| 351 | 50 | HDR unbiased | 5.4159 | 5.8006 | 0.3847 |
| 352 | 50 | HDR unbiased | 5.5695 | 5.668 | 0.0985 |
| 353 | 50 | HDR unbiased | 5.6671 | 5.6249 | -0.0422 |
| 354 | 50 | HDR unbiased | 5.6041 | 5.6375 | 0.0334 |
| 355 | 50 | HDR unbiased | 5.5201 | 5.7299 | 0.2098 |
| 521 | 20 | HDR biased | 5.5969 | 5.6169 | 0.02 |
| 522 | 20 | HDR biased | 5.538 | 5.5925 | 0.0545 |
| 523 | 20 | HDR biased | 5.4459 | 5.4947 | 0.0488 |
| 524 | 20 | HDR biased | 5.4171 | 5.5374 | 0.1203 |
| 525 | 20 | HDR biased | 5.4744 | 5.5076 | 0.0332 |
| 531 | 30 | HDR biased | 5.5406 | 5.5946 | 0.054 |
| 532 | 30 | HDR biased | 5.448 | 5.6194 | 0.1714 |
| 533 | 30 | HDR biased | 5.5121 | 5.5192 | 0.0071 |
| 534 | 30 | HDR biased | 5.6099 | 5.6455 | 0.0356 |
| 535 | 30 | HDR biased | 5.5123 | 5.6133 | 0.101 |
| 551 | 50 | HDR biased | 5.644 | 5.7339 | 0.0899 |
| 552 | 50 | HDR biased | 5.5568 | 5.7112 | 0.1544 |
| 553 | 50 | HDR biased | 5.6192 | 5.7494 | 0.1302 |
| 554 | 50 | HDR biased | 5.4198 | 5.5861 | 0.1663 |
| 555 | 50 | HDR biased | 5.3415 | 5.5023 | 0.1608 |

TID vs Post - Pre Exposure Delta

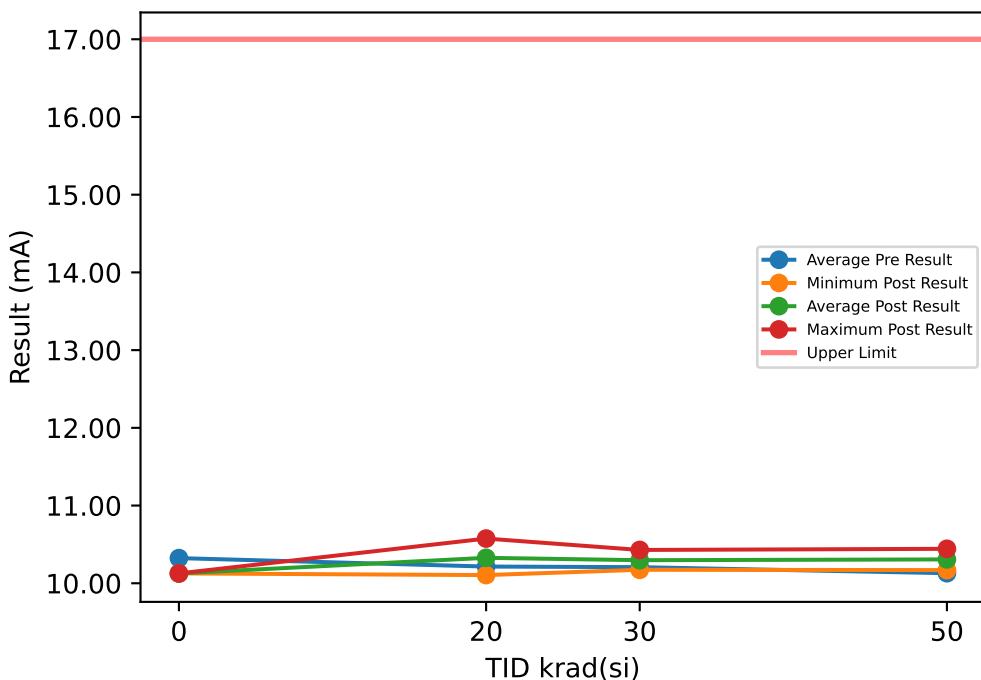


Test Statistics (mA)

| 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 | 5.4613 | 5.4613 | 5.4613 | | 5.7495 | 5.7495 | 5.7495 | | 0.2882 | 0.2882 | 0.2882 | |
| 20 | 5.4171 | 5.5103 | 5.6578 | 0.091311 | 5.4221 | 5.5533 | 5.6686 | 0.08027 | -0.0078 | 0.04301 | 0.1203 | 0.036248 |
| 30 | 5.448 | 5.5164 | 5.6147 | 0.058344 | 5.5192 | 5.5915 | 5.6517 | 0.045976 | 0.0071 | 0.0751 | 0.1714 | 0.046698 |
| 50 | 5.3415 | 5.5358 | 5.6671 | 0.10953 | 5.5023 | 5.6744 | 5.8006 | 0.088691 | -0.0422 | 0.13858 | 0.3847 | 0.11301 |

Device Test: 35.18 I_OP_LS_IIM_2MHZ(_Iop LS VIN IIM Interlock 2MHz VIN_10V)

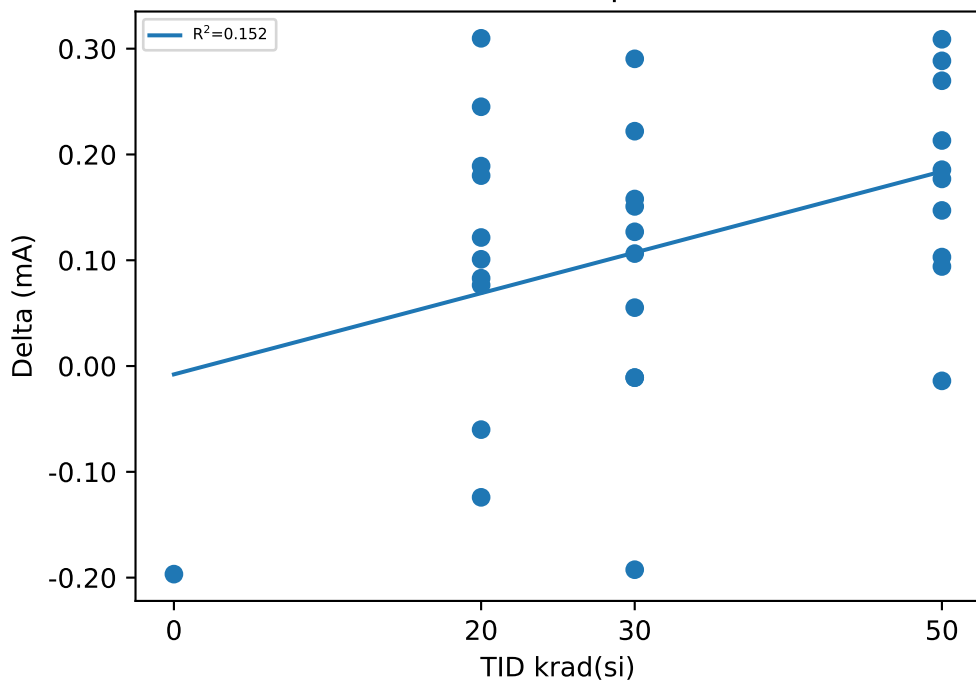
TID vs Result Stats



Test Results (Upper Limit = 17.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.324 | 10.127 | -0.1967 |
| 321 | 20 | HDR unbiased | 10.177 | 10.366 | 0.189 |
| 322 | 20 | HDR unbiased | 10.029 | 10.209 | 0.18 |
| 323 | 20 | HDR unbiased | 10.108 | 10.191 | 0.083 |
| 324 | 20 | HDR unbiased | 10.029 | 10.105 | 0.0765 |
| 325 | 20 | HDR unbiased | 10.246 | 10.186 | -0.0601 |
| 331 | 30 | HDR unbiased | 10.308 | 10.297 | -0.0109 |
| 332 | 30 | HDR unbiased | 10.192 | 10.181 | -0.011 |
| 333 | 30 | HDR unbiased | 10.302 | 10.429 | 0.1269 |
| 334 | 30 | HDR unbiased | 10.181 | 10.288 | 0.1063 |
| 335 | 30 | HDR unbiased | 10.138 | 10.289 | 0.1509 |
| 351 | 50 | HDR unbiased | 10.184 | 10.169 | -0.014 |
| 352 | 50 | HDR unbiased | 10.027 | 10.297 | 0.2697 |
| 353 | 50 | HDR unbiased | 9.9814 | 10.29 | 0.3089 |
| 354 | 50 | HDR unbiased | 10.041 | 10.218 | 0.1769 |
| 355 | 50 | HDR unbiased | 10.054 | 10.201 | 0.1471 |
| 521 | 20 | HDR biased | 10.33 | 10.575 | 0.2451 |
| 522 | 20 | HDR biased | 10.238 | 10.339 | 0.1009 |
| 523 | 20 | HDR biased | 10.334 | 10.456 | 0.1215 |
| 524 | 20 | HDR biased | 10.435 | 10.311 | -0.1241 |
| 525 | 20 | HDR biased | 10.225 | 10.535 | 0.3098 |
| 531 | 30 | HDR biased | 10.168 | 10.326 | 0.1579 |
| 532 | 30 | HDR biased | 10.366 | 10.174 | -0.1925 |
| 533 | 30 | HDR biased | 10.04 | 10.33 | 0.2904 |
| 534 | 30 | HDR biased | 10.165 | 10.386 | 0.222 |
| 535 | 30 | HDR biased | 10.213 | 10.268 | 0.0552 |
| 551 | 50 | HDR biased | 10.136 | 10.35 | 0.2132 |
| 552 | 50 | HDR biased | 10.349 | 10.443 | 0.0941 |
| 553 | 50 | HDR biased | 10.108 | 10.397 | 0.2885 |
| 554 | 50 | HDR biased | 10.283 | 10.386 | 0.103 |
| 555 | 50 | HDR biased | 10.133 | 10.319 | 0.1856 |

TID vs Post - Pre Exposure Delta

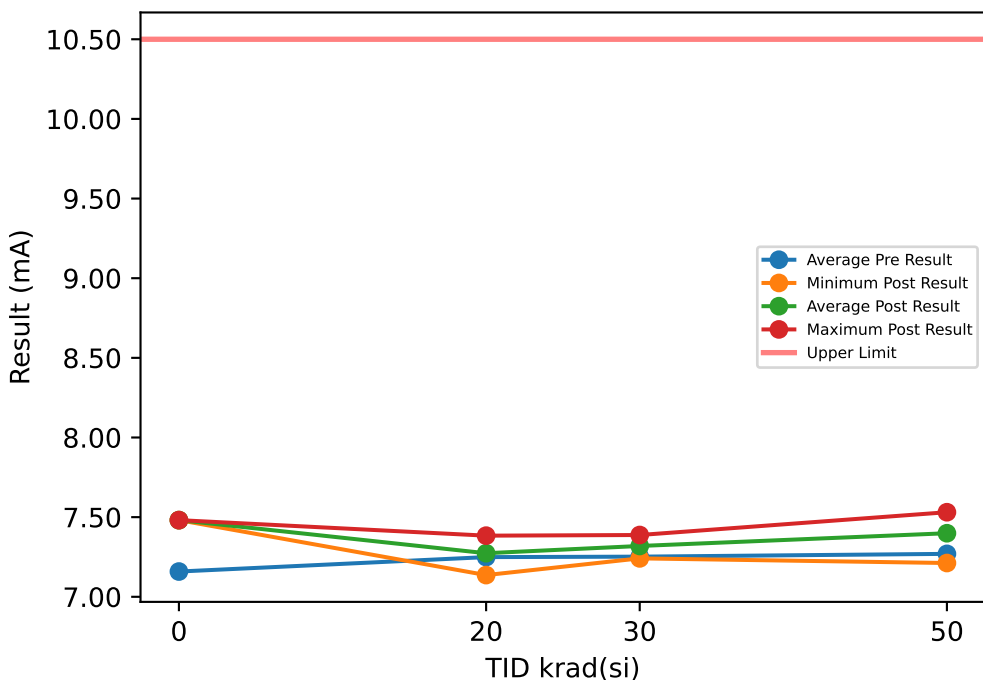


Test Statistics (mA)

| 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 | 10.324 | 10.324 | 10.324 | | 10.127 | 10.127 | 10.127 | | -0.1967 | -0.1967 | -0.1967 | |
| 20 | 10.029 | 10.215 | 10.435 | 0.13313 | 10.105 | 10.327 | 10.575 | 0.15797 | -0.1241 | 0.11216 | 0.3098 | 0.13126 |
| 30 | 10.04 | 10.207 | 10.366 | 0.095069 | 10.174 | 10.297 | 10.429 | 0.079586 | -0.1925 | 0.08952 | 0.2904 | 0.137 |
| 50 | 9.9814 | 10.13 | 10.349 | 0.11605 | 10.169 | 10.307 | 10.443 | 0.090227 | -0.014 | 0.1773 | 0.3089 | 0.099739 |

Device Test: 35.19 I_OP_HS_IIM_2MHZ(_Iop HS BOOT IIM Interlock 2MHz VIN_10V)

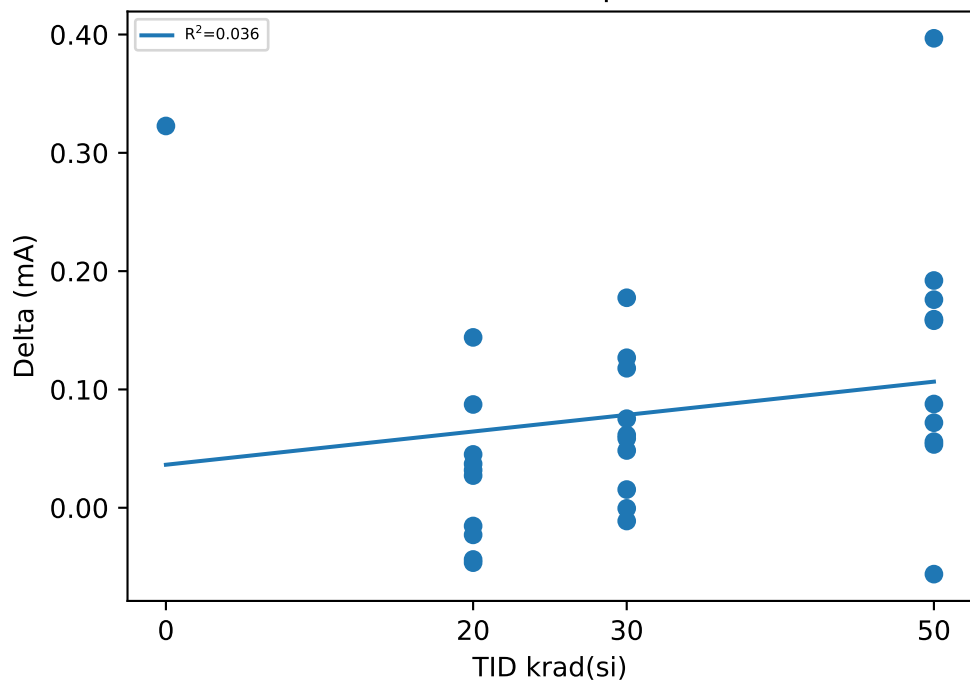
TID vs Result Stats



Test Results (Upper Limit = 10.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.1586 | 7.4813 | 0.3227 |
| 321 | 20 | HDR unbiased | 7.1827 | 7.1363 | -0.0464 |
| 322 | 20 | HDR unbiased | 7.4275 | 7.3838 | -0.0437 |
| 323 | 20 | HDR unbiased | 7.3543 | 7.3815 | 0.0272 |
| 324 | 20 | HDR unbiased | 7.25 | 7.2871 | 0.0371 |
| 325 | 20 | HDR unbiased | 7.1317 | 7.219 | 0.0873 |
| 331 | 30 | HDR unbiased | 7.1756 | 7.2935 | 0.1179 |
| 332 | 30 | HDR unbiased | 7.2231 | 7.3499 | 0.1268 |
| 333 | 30 | HDR unbiased | 7.1797 | 7.2412 | 0.0615 |
| 334 | 30 | HDR unbiased | 7.3725 | 7.3879 | 0.0154 |
| 335 | 30 | HDR unbiased | 7.264 | 7.3124 | 0.0484 |
| 351 | 50 | HDR unbiased | 7.1341 | 7.5309 | 0.3968 |
| 352 | 50 | HDR unbiased | 7.3249 | 7.3784 | 0.0535 |
| 353 | 50 | HDR unbiased | 7.4189 | 7.3628 | -0.0561 |
| 354 | 50 | HDR unbiased | 7.3198 | 7.3757 | 0.0559 |
| 355 | 50 | HDR unbiased | 7.2822 | 7.4416 | 0.1594 |
| 521 | 20 | HDR biased | 7.3428 | 7.3199 | -0.0229 |
| 522 | 20 | HDR biased | 7.2942 | 7.326 | 0.0318 |
| 523 | 20 | HDR biased | 7.1556 | 7.2007 | 0.0451 |
| 524 | 20 | HDR biased | 7.1258 | 7.2698 | 0.144 |
| 525 | 20 | HDR biased | 7.2267 | 7.2113 | -0.0154 |
| 531 | 30 | HDR biased | 7.2574 | 7.3327 | 0.0753 |
| 532 | 30 | HDR biased | 7.1571 | 7.3346 | 0.1775 |
| 533 | 30 | HDR biased | 7.2546 | 7.2541 | -0.0005 |
| 534 | 30 | HDR biased | 7.3677 | 7.3565 | -0.0112 |
| 535 | 30 | HDR biased | 7.269 | 7.3276 | 0.0586 |
| 551 | 50 | HDR biased | 7.3922 | 7.4641 | 0.0719 |
| 552 | 50 | HDR biased | 7.2688 | 7.4447 | 0.1759 |
| 553 | 50 | HDR biased | 7.3706 | 7.4583 | 0.0877 |
| 554 | 50 | HDR biased | 7.1296 | 7.3217 | 0.1921 |
| 555 | 50 | HDR biased | 7.054 | 7.2121 | 0.1581 |

TID vs Post - Pre Exposure Delta

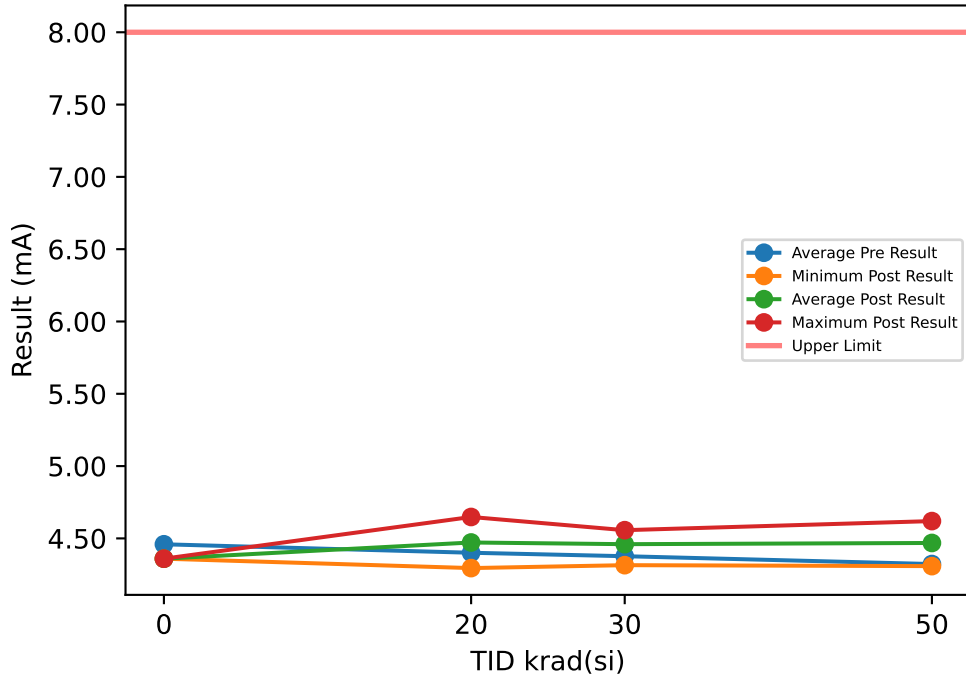


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.1586 | 7.1586 | 7.1586 | | 7.4813 | 7.4813 | 7.4813 | | 0.3227 | 0.3227 | 0.3227 | |
| 20 | 7.1258 | 7.2491 | 7.4275 | 0.10347 | 7.1363 | 7.2735 | 7.3838 | 0.081582 | -0.0464 | 0.02441 | 0.144 | 0.059986 |
| 30 | 7.1571 | 7.2521 | 7.3725 | 0.073998 | 7.2412 | 7.319 | 7.3879 | 0.045426 | -0.0112 | 0.06697 | 0.1775 | 0.059839 |
| 50 | 7.054 | 7.2695 | 7.4189 | 0.12369 | 7.2121 | 7.399 | 7.5309 | 0.089592 | -0.0561 | 0.12952 | 0.3968 | 0.12016 |

Device Test: 35.2 IQ_LS_IIM(Iq LS VIN IIM Interlock VIN_10V)

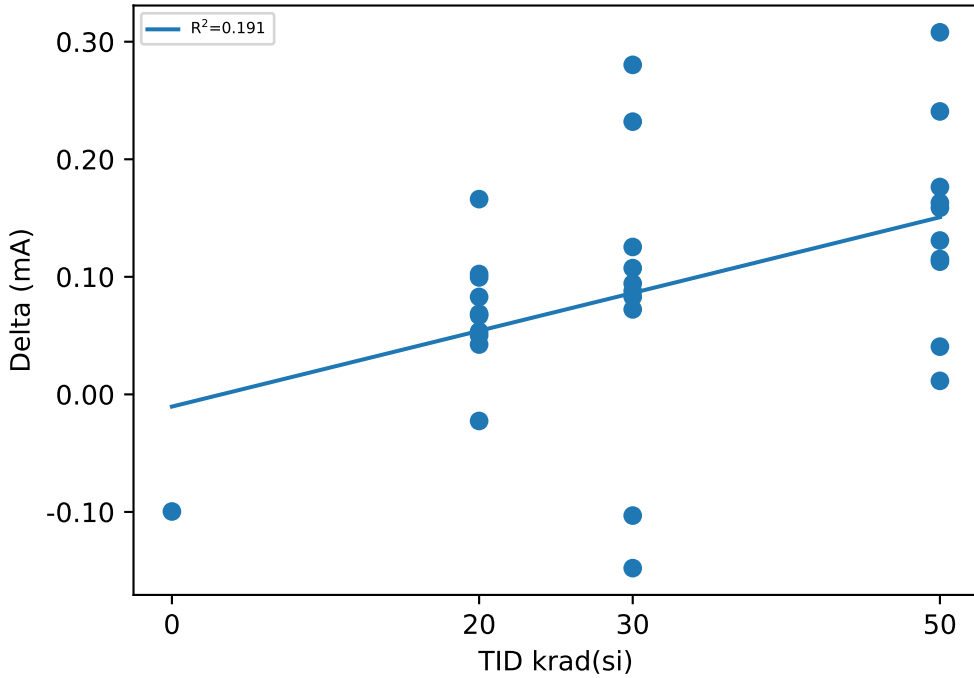
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.4593 | 4.3597 | -0.0996 |
| 321 | 20 | HDR unbiased | 4.3946 | 4.4481 | 0.0535 |
| 322 | 20 | HDR unbiased | 4.2523 | 4.2947 | 0.0424 |
| 323 | 20 | HDR unbiased | 4.2273 | 4.2959 | 0.0686 |
| 324 | 20 | HDR unbiased | 4.3054 | 4.3724 | 0.067 |
| 325 | 20 | HDR unbiased | 4.3503 | 4.4004 | 0.0501 |
| 331 | 30 | HDR unbiased | 4.41 | 4.4979 | 0.0879 |
| 332 | 30 | HDR unbiased | 4.2791 | 4.3734 | 0.0943 |
| 333 | 30 | HDR unbiased | 4.4099 | 4.5173 | 0.1074 |
| 334 | 30 | HDR unbiased | 4.4098 | 4.4928 | 0.083 |
| 335 | 30 | HDR unbiased | 4.3686 | 4.494 | 0.1254 |
| 351 | 50 | HDR unbiased | 4.3345 | 4.3751 | 0.0406 |
| 352 | 50 | HDR unbiased | 4.3087 | 4.4239 | 0.1152 |
| 353 | 50 | HDR unbiased | 4.2224 | 4.5304 | 0.308 |
| 354 | 50 | HDR unbiased | 4.1866 | 4.4273 | 0.2407 |
| 355 | 50 | HDR unbiased | 4.2968 | 4.3083 | 0.0115 |
| 521 | 20 | HDR biased | 4.5457 | 4.6481 | 0.1024 |
| 522 | 20 | HDR biased | 4.4695 | 4.5524 | 0.0829 |
| 523 | 20 | HDR biased | 4.4336 | 4.5331 | 0.0995 |
| 524 | 20 | HDR biased | 4.5589 | 4.5363 | -0.0226 |
| 525 | 20 | HDR biased | 4.4696 | 4.6357 | 0.1661 |
| 531 | 30 | HDR biased | 4.2765 | 4.5568 | 0.2803 |
| 532 | 30 | HDR biased | 4.4627 | 4.3149 | -0.1478 |
| 533 | 30 | HDR biased | 4.2979 | 4.5299 | 0.232 |
| 534 | 30 | HDR biased | 4.3937 | 4.466 | 0.0723 |
| 535 | 30 | HDR biased | 4.4606 | 4.3575 | -0.1031 |
| 551 | 50 | HDR biased | 4.3586 | 4.5173 | 0.1587 |
| 552 | 50 | HDR biased | 4.4567 | 4.6197 | 0.163 |
| 553 | 50 | HDR biased | 4.3564 | 4.4693 | 0.1129 |
| 554 | 50 | HDR biased | 4.4159 | 4.5923 | 0.1764 |
| 555 | 50 | HDR biased | 4.2896 | 4.4205 | 0.1309 |

TID vs Post - Pre Exposure Delta

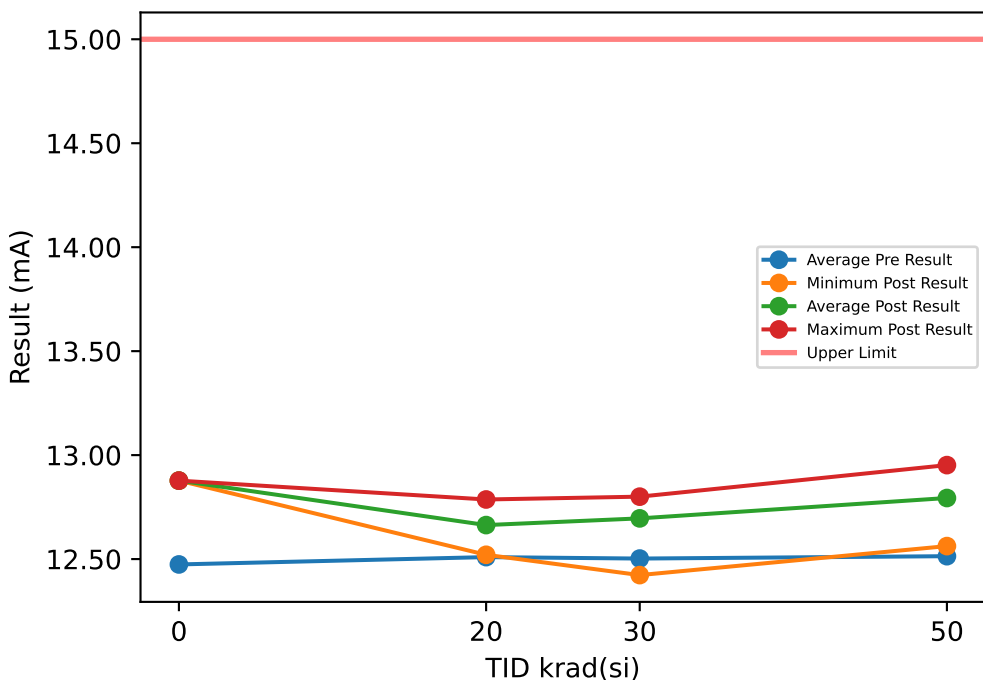


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.4593 | 4.4593 | 4.4593 | | 4.3597 | 4.3597 | 4.3597 | | -0.0996 | -0.0996 | -0.0996 | |
| 20 | 4.2273 | 4.4007 | 4.5589 | 0.11565 | 4.2947 | 4.4717 | 4.6481 | 0.12919 | -0.0226 | 0.07099 | 0.1661 | 0.04868 |
| 30 | 4.2765 | 4.3769 | 4.4627 | 0.069818 | 4.3149 | 4.46 | 4.5568 | 0.081856 | -0.1478 | 0.08317 | 0.2803 | 0.12982 |
| 50 | 4.1866 | 4.3226 | 4.4567 | 0.08148 | 4.3083 | 4.4684 | 4.6197 | 0.097057 | 0.0115 | 0.14579 | 0.308 | 0.08696 |

Device Test: 35.21 I_OP_HS_IIM_5MHZ(_Iop HS BOOT IIM Interlock 5MHz VIN_10V)

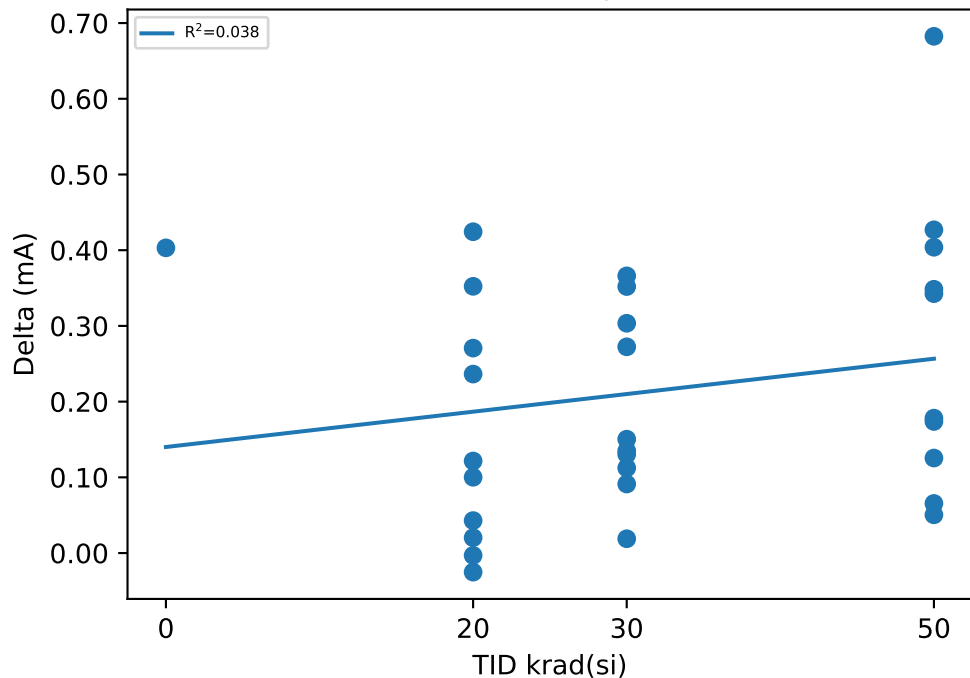
TID vs Result Stats



Test Results (Upper Limit = 15.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 12.474 | 12.877 | 0.4031 |
| 321 | 20 | HDR unbiased | 12.478 | 12.521 | 0.0429 |
| 322 | 20 | HDR unbiased | 12.812 | 12.787 | -0.0252 |
| 323 | 20 | HDR unbiased | 12.513 | 12.749 | 0.2364 |
| 324 | 20 | HDR unbiased | 12.629 | 12.729 | 0.1001 |
| 325 | 20 | HDR unbiased | 12.294 | 12.646 | 0.3523 |
| 331 | 30 | HDR unbiased | 12.342 | 12.694 | 0.352 |
| 332 | 30 | HDR unbiased | 12.425 | 12.791 | 0.3661 |
| 333 | 30 | HDR unbiased | 12.352 | 12.625 | 0.2724 |
| 334 | 30 | HDR unbiased | 12.688 | 12.8 | 0.1125 |
| 335 | 30 | HDR unbiased | 12.657 | 12.748 | 0.0912 |
| 351 | 50 | HDR unbiased | 12.269 | 12.952 | 0.6825 |
| 352 | 50 | HDR unbiased | 12.68 | 12.746 | 0.0655 |
| 353 | 50 | HDR unbiased | 12.733 | 12.783 | 0.0505 |
| 354 | 50 | HDR unbiased | 12.475 | 12.824 | 0.3484 |
| 355 | 50 | HDR unbiased | 12.65 | 12.828 | 0.1782 |
| 521 | 20 | HDR biased | 12.677 | 12.697 | 0.0203 |
| 522 | 20 | HDR biased | 12.613 | 12.735 | 0.1216 |
| 523 | 20 | HDR biased | 12.255 | 12.526 | 0.2707 |
| 524 | 20 | HDR biased | 12.252 | 12.677 | 0.4244 |
| 525 | 20 | HDR biased | 12.573 | 12.57 | -0.0031 |
| 531 | 30 | HDR biased | 12.459 | 12.762 | 0.3035 |
| 532 | 30 | HDR biased | 12.293 | 12.423 | 0.1304 |
| 533 | 30 | HDR biased | 12.513 | 12.663 | 0.1504 |
| 534 | 30 | HDR biased | 12.701 | 12.72 | 0.0189 |
| 535 | 30 | HDR biased | 12.597 | 12.732 | 0.135 |
| 551 | 50 | HDR biased | 12.692 | 12.866 | 0.1738 |
| 552 | 50 | HDR biased | 12.419 | 12.846 | 0.4269 |
| 553 | 50 | HDR biased | 12.664 | 12.789 | 0.1255 |
| 554 | 50 | HDR biased | 12.336 | 12.74 | 0.4039 |
| 555 | 50 | HDR biased | 12.22 | 12.562 | 0.3426 |

TID vs Post - Pre Exposure Delta

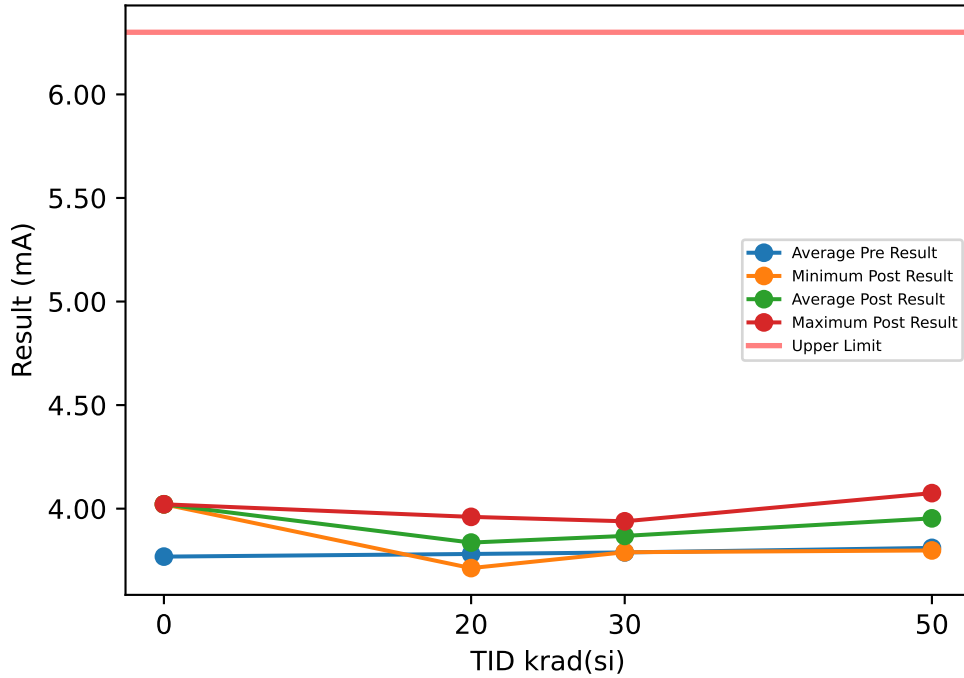


Test Statistics (mA)

| 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 | 12.474 | 12.474 | 12.474 | | 12.877 | 12.877 | 12.877 | | 0.4031 | 0.4031 | 0.4031 | |
| 20 | 12.252 | 12.509 | 12.812 | 0.19061 | 12.521 | 12.664 | 12.787 | 0.095302 | -0.0252 | 0.15404 | 0.4244 | 0.1577 |
| 30 | 12.293 | 12.502 | 12.701 | 0.15162 | 12.423 | 12.696 | 12.8 | 0.11029 | 0.0189 | 0.19324 | 0.3661 | 0.12019 |
| 50 | 12.22 | 12.514 | 12.733 | 0.19342 | 12.562 | 12.794 | 12.952 | 0.10211 | 0.0505 | 0.27978 | 0.6825 | 0.19769 |

Device Test: 35.3 IQ_HS_IIM(Iq HS BOOT IIM Interlock VIN_10V)

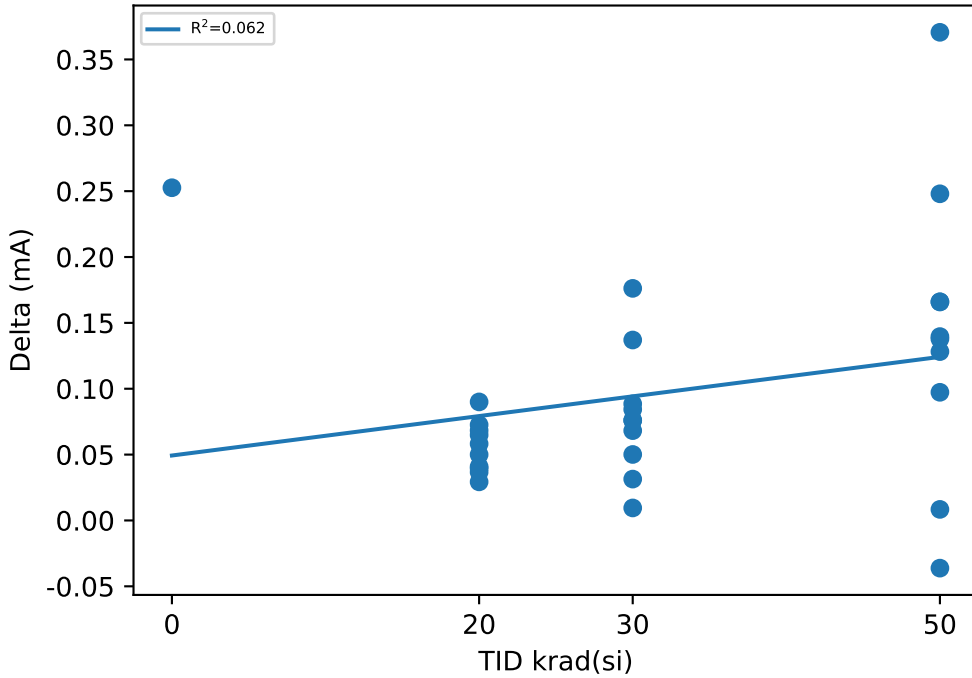
TID vs Result Stats



Test Results (Upper Limit = 6.3 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.7685 | 4.0211 | 0.2526 |
| 321 | 20 | HDR unbiased | 3.6838 | 3.7131 | 0.0293 |
| 322 | 20 | HDR unbiased | 3.9021 | 3.9416 | 0.0395 |
| 323 | 20 | HDR unbiased | 3.9237 | 3.9604 | 0.0367 |
| 324 | 20 | HDR unbiased | 3.7366 | 3.8049 | 0.0683 |
| 325 | 20 | HDR unbiased | 3.7154 | 3.7563 | 0.0409 |
| 331 | 30 | HDR unbiased | 3.7557 | 3.8317 | 0.076 |
| 332 | 30 | HDR unbiased | 3.7821 | 3.8664 | 0.0843 |
| 333 | 30 | HDR unbiased | 3.7374 | 3.8056 | 0.0682 |
| 334 | 30 | HDR unbiased | 3.8686 | 3.9187 | 0.0501 |
| 335 | 30 | HDR unbiased | 3.7629 | 3.8514 | 0.0885 |
| 351 | 50 | HDR unbiased | 3.7044 | 4.075 | 0.3706 |
| 352 | 50 | HDR unbiased | 3.8253 | 3.9631 | 0.1378 |
| 353 | 50 | HDR unbiased | 3.9276 | 3.8914 | -0.0362 |
| 354 | 50 | HDR unbiased | 3.8932 | 3.9016 | 0.0084 |
| 355 | 50 | HDR unbiased | 3.7712 | 4.0192 | 0.248 |
| 521 | 20 | HDR biased | 3.8606 | 3.9188 | 0.0582 |
| 522 | 20 | HDR biased | 3.7944 | 3.8593 | 0.0649 |
| 523 | 20 | HDR biased | 3.7441 | 3.7941 | 0.05 |
| 524 | 20 | HDR biased | 3.7173 | 3.8073 | 0.09 |
| 525 | 20 | HDR biased | 3.7344 | 3.807 | 0.0726 |
| 531 | 30 | HDR biased | 3.8298 | 3.8612 | 0.0314 |
| 532 | 30 | HDR biased | 3.7423 | 3.9185 | 0.1762 |
| 533 | 30 | HDR biased | 3.7801 | 3.7896 | 0.0095 |
| 534 | 30 | HDR biased | 3.863 | 3.939 | 0.076 |
| 535 | 30 | HDR biased | 3.7651 | 3.9021 | 0.137 |
| 551 | 50 | HDR biased | 3.9049 | 4.0022 | 0.0973 |
| 552 | 50 | HDR biased | 3.8517 | 3.9799 | 0.1282 |
| 553 | 50 | HDR biased | 3.8812 | 4.0471 | 0.1659 |
| 554 | 50 | HDR biased | 3.7143 | 3.8539 | 0.1396 |
| 555 | 50 | HDR biased | 3.6323 | 3.7983 | 0.166 |

TID vs Post - Pre Exposure Delta

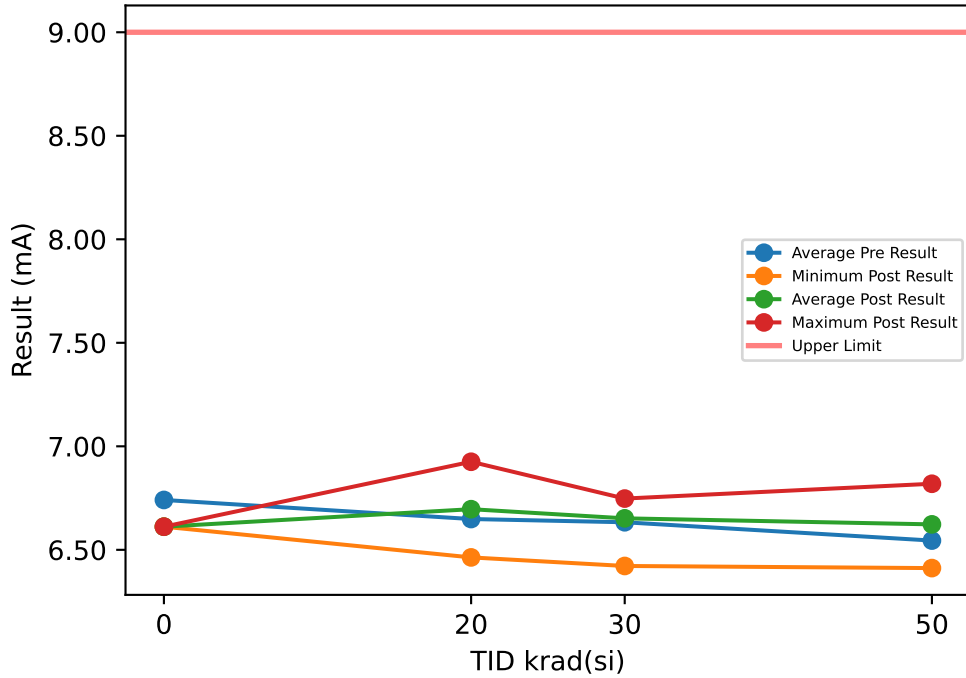


Test Statistics (mA)

| 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 | 3.7685 | 3.7685 | 3.7685 | | 4.0211 | 4.0211 | 4.0211 | | 0.2526 | 0.2526 | 0.2526 | |
| 20 | 3.6838 | 3.7812 | 3.9237 | 0.08489 | 3.7131 | 3.8363 | 3.9604 | 0.08156 | 0.0293 | 0.05504 | 0.09 | 0.019088 |
| 30 | 3.7374 | 3.7887 | 3.8686 | 0.048083 | 3.7896 | 3.8684 | 3.939 | 0.050558 | 0.0095 | 0.07972 | 0.1762 | 0.048294 |
| 50 | 3.6323 | 3.8106 | 3.9276 | 0.10011 | 3.7983 | 3.9532 | 4.075 | 0.089167 | -0.0362 | 0.14256 | 0.3706 | 0.11375 |

Device Test: 35.6 I_OP_LS_PWM_500KHZ(_lop LS VIN PWM 500kHz VIN_10V)

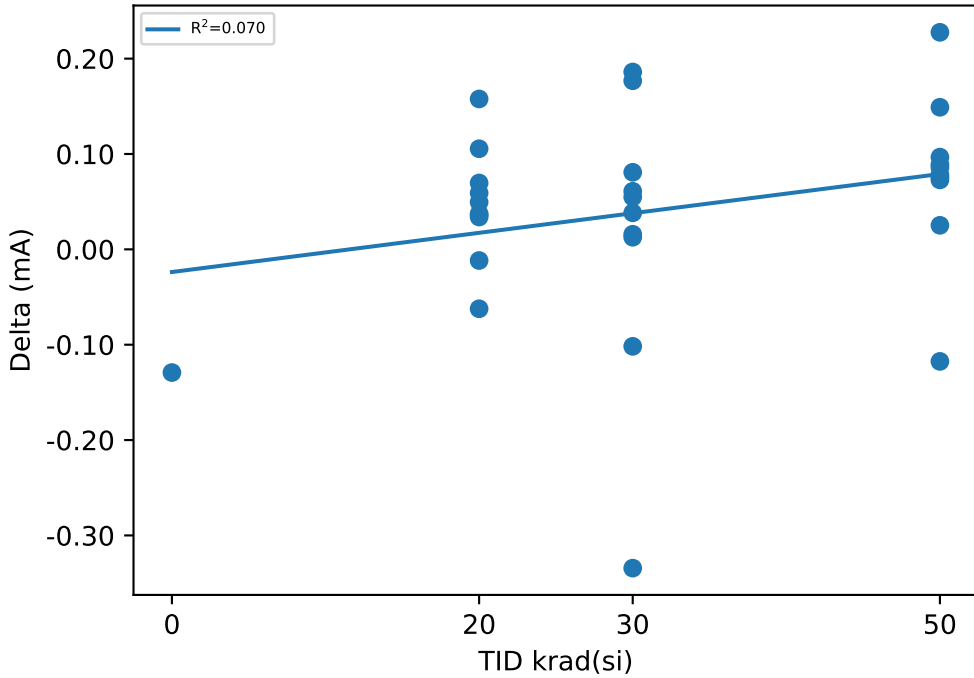
TID vs Result Stats



Test Results (Upper Limit = 9.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.7409 | 6.6117 | -0.1292 |
| 321 | 20 | HDR unbiased | 6.61 | 6.6595 | 0.0495 |
| 322 | 20 | HDR unbiased | 6.4647 | 6.5021 | 0.0374 |
| 323 | 20 | HDR unbiased | 6.4518 | 6.4857 | 0.0339 |
| 324 | 20 | HDR unbiased | 6.4274 | 6.4634 | 0.036 |
| 325 | 20 | HDR unbiased | 6.658 | 6.6463 | -0.0117 |
| 331 | 30 | HDR unbiased | 6.6749 | 6.6876 | 0.0127 |
| 332 | 30 | HDR unbiased | 6.6086 | 6.6244 | 0.0158 |
| 333 | 30 | HDR unbiased | 6.5903 | 6.6512 | 0.0609 |
| 334 | 30 | HDR unbiased | 6.6318 | 6.6701 | 0.0383 |
| 335 | 30 | HDR unbiased | 6.5745 | 6.6553 | 0.0808 |
| 351 | 50 | HDR unbiased | 6.5149 | 6.5401 | 0.0252 |
| 352 | 50 | HDR unbiased | 6.4585 | 6.5313 | 0.0728 |
| 353 | 50 | HDR unbiased | 6.4621 | 6.6111 | 0.149 |
| 354 | 50 | HDR unbiased | 6.3573 | 6.5849 | 0.2276 |
| 355 | 50 | HDR unbiased | 6.5293 | 6.4118 | -0.1175 |
| 521 | 20 | HDR biased | 6.8199 | 6.9254 | 0.1055 |
| 522 | 20 | HDR biased | 6.7173 | 6.7764 | 0.0591 |
| 523 | 20 | HDR biased | 6.7639 | 6.8335 | 0.0696 |
| 524 | 20 | HDR biased | 6.8402 | 6.7779 | -0.0623 |
| 525 | 20 | HDR biased | 6.7347 | 6.8924 | 0.1577 |
| 531 | 30 | HDR biased | 6.5616 | 6.7476 | 0.186 |
| 532 | 30 | HDR biased | 6.7563 | 6.422 | -0.3343 |
| 533 | 30 | HDR biased | 6.5699 | 6.7467 | 0.1768 |
| 534 | 30 | HDR biased | 6.6638 | 6.7187 | 0.0549 |
| 535 | 30 | HDR biased | 6.6997 | 6.598 | -0.1017 |
| 551 | 50 | HDR biased | 6.6506 | 6.7473 | 0.0967 |
| 552 | 50 | HDR biased | 6.7434 | 6.8191 | 0.0757 |
| 553 | 50 | HDR biased | 6.5833 | 6.6691 | 0.0858 |
| 554 | 50 | HDR biased | 6.6523 | 6.7413 | 0.089 |
| 555 | 50 | HDR biased | 6.4955 | 6.5737 | 0.0782 |

TID vs Post - Pre Exposure Delta

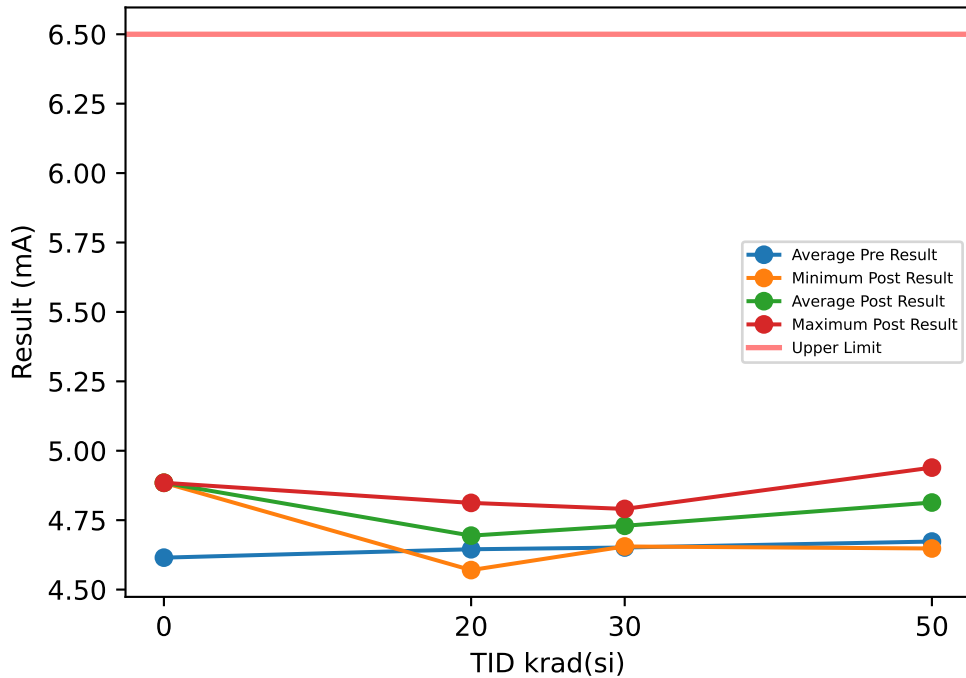


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.7409 | 6.7409 | 6.7409 | | 6.6117 | 6.6117 | 6.6117 | | -0.1292 | -0.1292 | -0.1292 | |
| 20 | 6.4274 | 6.6488 | 6.8402 | 0.15439 | 6.4634 | 6.6963 | 6.9254 | 0.17095 | -0.0623 | 0.04747 | 0.1577 | 0.059735 |
| 30 | 6.5616 | 6.6331 | 6.7563 | 0.064358 | 6.422 | 6.6522 | 6.7476 | 0.094716 | -0.3343 | 0.01902 | 0.186 | 0.14887 |
| 50 | 6.3573 | 6.5447 | 6.7434 | 0.11386 | 6.4118 | 6.623 | 6.8191 | 0.12199 | -0.1175 | 0.07825 | 0.2276 | 0.087555 |

Device Test: 35.7 I_OP_HS_PWM_500KHZ(_Iop HS BOOT PWM 500kHz VIN_10V)

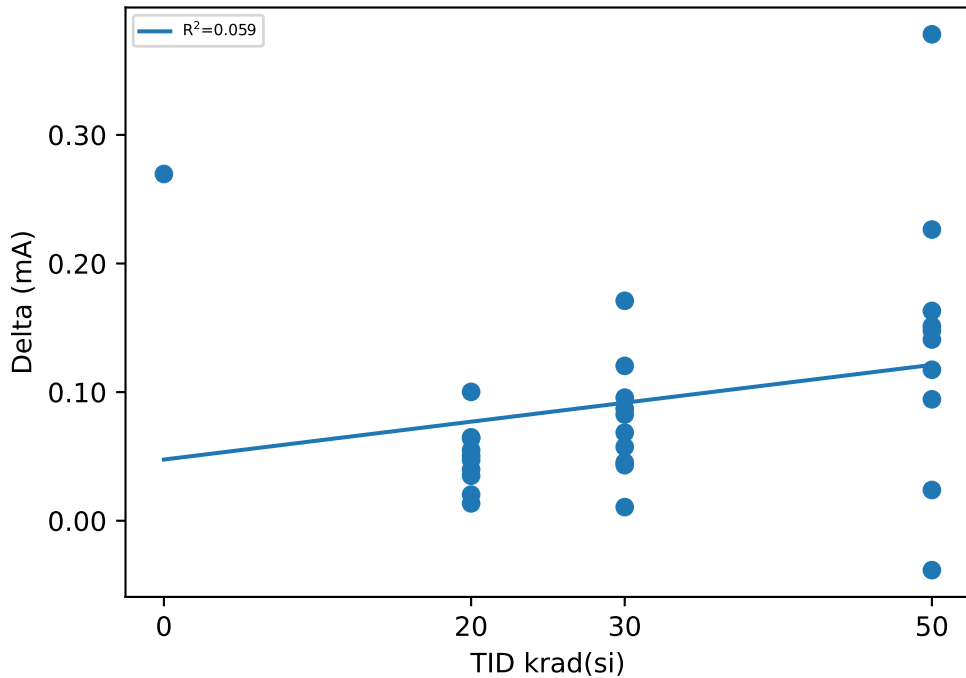
TID vs Result Stats



Test Results (Upper Limit = 6.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.615 | 4.8846 | 0.2696 |
| 321 | 20 | HDR unbiased | 4.5567 | 4.5702 | 0.0135 |
| 322 | 20 | HDR unbiased | 4.7788 | 4.7991 | 0.0203 |
| 323 | 20 | HDR unbiased | 4.7772 | 4.8122 | 0.035 |
| 324 | 20 | HDR unbiased | 4.6076 | 4.6724 | 0.0648 |
| 325 | 20 | HDR unbiased | 4.571 | 4.6215 | 0.0505 |
| 331 | 30 | HDR unbiased | 4.611 | 4.6981 | 0.0871 |
| 332 | 30 | HDR unbiased | 4.6424 | 4.7381 | 0.0957 |
| 333 | 30 | HDR unbiased | 4.5956 | 4.6641 | 0.0685 |
| 334 | 30 | HDR unbiased | 4.7387 | 4.7841 | 0.0454 |
| 335 | 30 | HDR unbiased | 4.6321 | 4.7147 | 0.0826 |
| 351 | 50 | HDR unbiased | 4.5611 | 4.9393 | 0.3782 |
| 352 | 50 | HDR unbiased | 4.6972 | 4.8146 | 0.1174 |
| 353 | 50 | HDR unbiased | 4.7961 | 4.7577 | -0.0384 |
| 354 | 50 | HDR unbiased | 4.7471 | 4.771 | 0.0239 |
| 355 | 50 | HDR unbiased | 4.6475 | 4.8739 | 0.2264 |
| 521 | 20 | HDR biased | 4.7295 | 4.7694 | 0.0399 |
| 522 | 20 | HDR biased | 4.6624 | 4.7266 | 0.0642 |
| 523 | 20 | HDR biased | 4.5978 | 4.645 | 0.0472 |
| 524 | 20 | HDR biased | 4.5695 | 4.6697 | 0.1002 |
| 525 | 20 | HDR biased | 4.6015 | 4.6564 | 0.0549 |
| 531 | 30 | HDR biased | 4.6838 | 4.727 | 0.0432 |
| 532 | 30 | HDR biased | 4.5976 | 4.7686 | 0.171 |
| 533 | 30 | HDR biased | 4.6447 | 4.6553 | 0.0106 |
| 534 | 30 | HDR biased | 4.7331 | 4.7905 | 0.0574 |
| 535 | 30 | HDR biased | 4.636 | 4.7564 | 0.1204 |
| 551 | 50 | HDR biased | 4.7741 | 4.8685 | 0.0944 |
| 552 | 50 | HDR biased | 4.7053 | 4.8462 | 0.1409 |
| 553 | 50 | HDR biased | 4.7499 | 4.8977 | 0.1478 |
| 554 | 50 | HDR biased | 4.5668 | 4.7181 | 0.1513 |
| 555 | 50 | HDR biased | 4.4849 | 4.648 | 0.1631 |

TID vs Post - Pre Exposure Delta

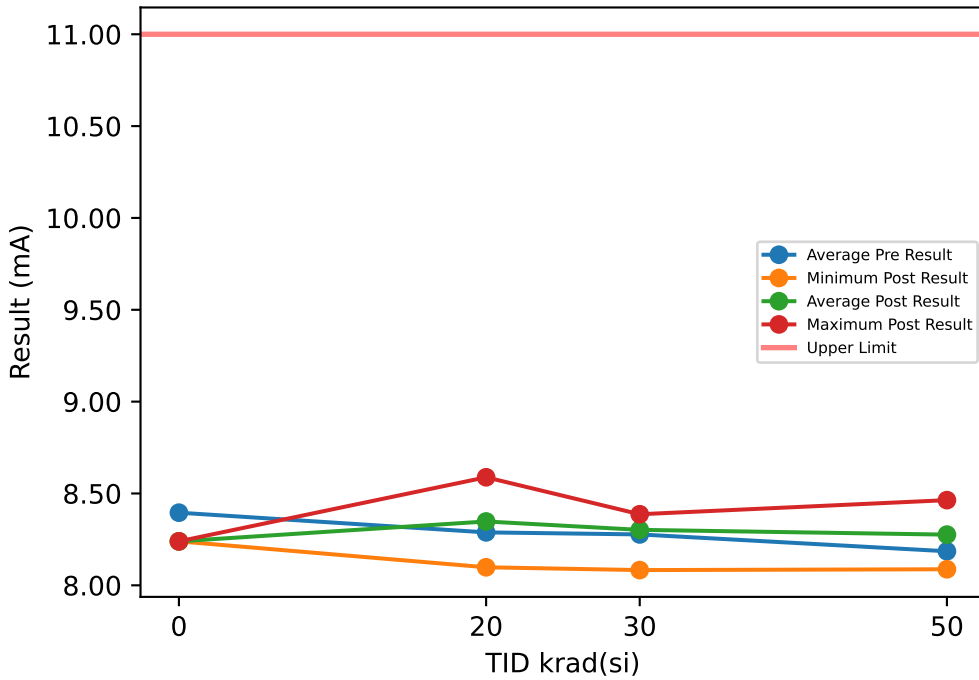


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.615 | 4.615 | 4.615 | | 4.8846 | 4.8846 | 4.8846 | | 0.2696 | 0.2696 | 0.2696 | |
| 20 | 4.5567 | 4.6452 | 4.7788 | 0.086483 | 4.5702 | 4.6942 | 4.8122 | 0.079735 | 0.0135 | 0.04905 | 0.1002 | 0.024732 |
| 30 | 4.5956 | 4.6515 | 4.7387 | 0.051339 | 4.6553 | 4.7297 | 4.7905 | 0.047167 | 0.0106 | 0.07819 | 0.171 | 0.044963 |
| 50 | 4.4849 | 4.673 | 4.7961 | 0.10448 | 4.648 | 4.8135 | 4.9393 | 0.089486 | -0.0384 | 0.1405 | 0.3782 | 0.11196 |

Device Test: 35.8 I_OP_LS_PWM_1MHZ(_lop LS VIN PWM 1MHz VIN_10V)

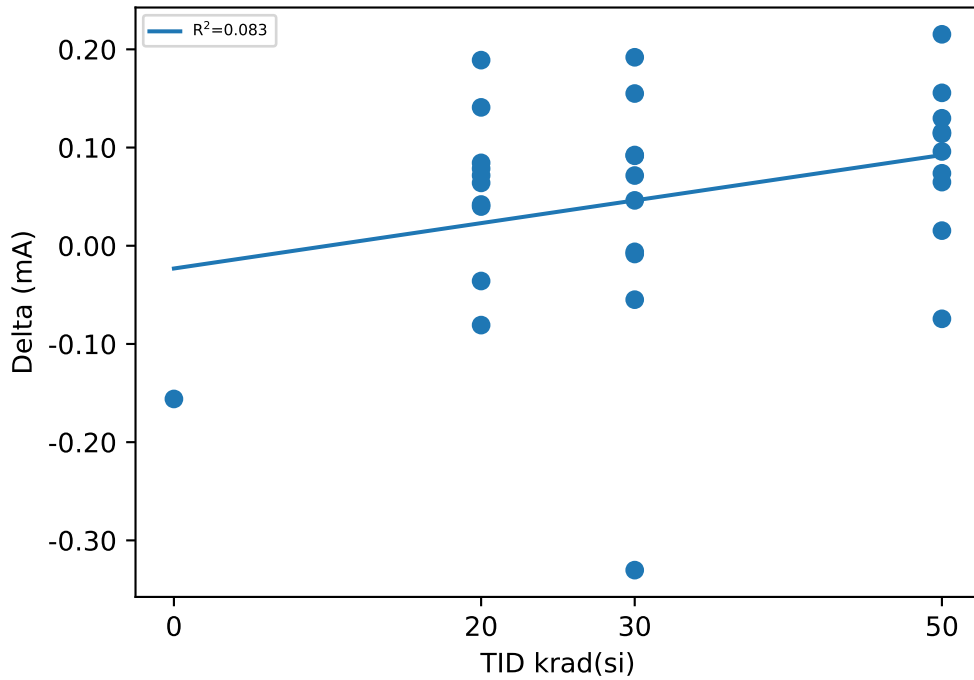
TID vs Result Stats



Test Results (Upper Limit = 11.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.3954 | 8.2394 | -0.156 |
| 321 | 20 | HDR unbiased | 8.2446 | 8.329 | 0.0844 |
| 322 | 20 | HDR unbiased | 8.1028 | 8.1744 | 0.0716 |
| 323 | 20 | HDR unbiased | 8.1137 | 8.1536 | 0.0399 |
| 324 | 20 | HDR unbiased | 8.0562 | 8.0982 | 0.042 |
| 325 | 20 | HDR unbiased | 8.3165 | 8.2806 | -0.0359 |
| 331 | 30 | HDR unbiased | 8.331 | 8.3226 | -0.0084 |
| 332 | 30 | HDR unbiased | 8.271 | 8.2648 | -0.0062 |
| 333 | 30 | HDR unbiased | 8.2565 | 8.328 | 0.0715 |
| 334 | 30 | HDR unbiased | 8.2623 | 8.3085 | 0.0462 |
| 335 | 30 | HDR unbiased | 8.2094 | 8.301 | 0.0916 |
| 351 | 50 | HDR unbiased | 8.168 | 8.1834 | 0.0154 |
| 352 | 50 | HDR unbiased | 8.083 | 8.1985 | 0.1155 |
| 353 | 50 | HDR unbiased | 8.0922 | 8.2479 | 0.1557 |
| 354 | 50 | HDR unbiased | 8.0157 | 8.231 | 0.2153 |
| 355 | 50 | HDR unbiased | 8.1618 | 8.0874 | -0.0744 |
| 521 | 20 | HDR biased | 8.4473 | 8.5882 | 0.1409 |
| 522 | 20 | HDR biased | 8.3428 | 8.4068 | 0.064 |
| 523 | 20 | HDR biased | 8.4107 | 8.4893 | 0.0786 |
| 524 | 20 | HDR biased | 8.4889 | 8.4081 | -0.0808 |
| 525 | 20 | HDR biased | 8.3584 | 8.5474 | 0.189 |
| 531 | 30 | HDR biased | 8.221 | 8.376 | 0.155 |
| 532 | 30 | HDR biased | 8.4132 | 8.0829 | -0.3303 |
| 533 | 30 | HDR biased | 8.1913 | 8.3832 | 0.1919 |
| 534 | 30 | HDR biased | 8.2945 | 8.3869 | 0.0924 |
| 535 | 30 | HDR biased | 8.3205 | 8.2656 | -0.0549 |
| 551 | 50 | HDR biased | 8.2738 | 8.3879 | 0.1141 |
| 552 | 50 | HDR biased | 8.3989 | 8.4637 | 0.0648 |
| 553 | 50 | HDR biased | 8.2066 | 8.3364 | 0.1298 |
| 554 | 50 | HDR biased | 8.3071 | 8.3809 | 0.0738 |
| 555 | 50 | HDR biased | 8.1468 | 8.2428 | 0.096 |

TID vs Post - Pre Exposure Delta

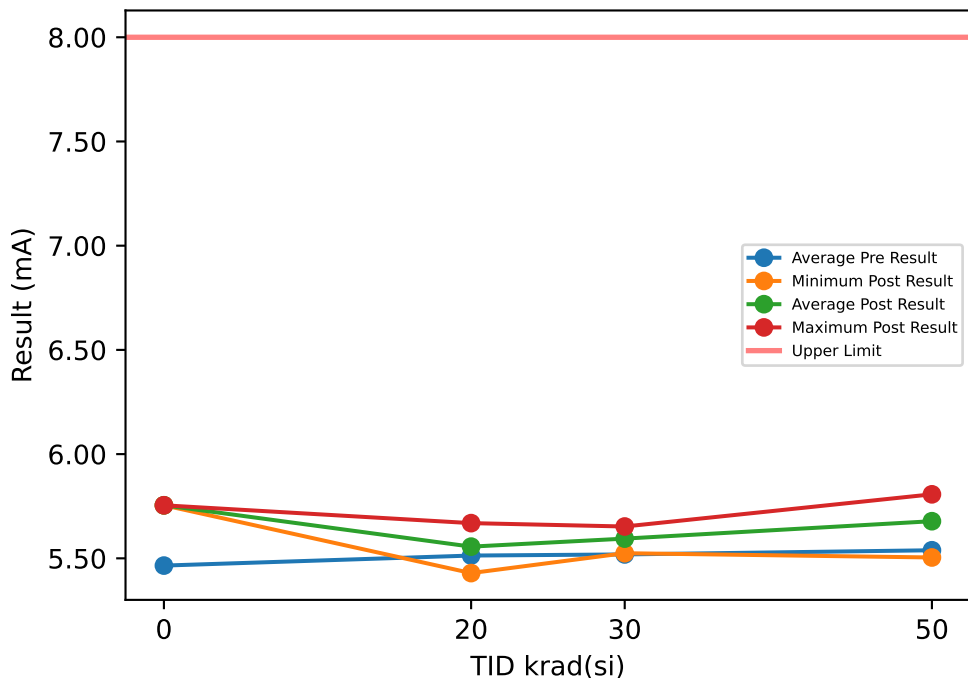


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 8.3954 | 8.3954 | 8.3954 | | 8.2394 | 8.2394 | 8.2394 | | -0.156 | -0.156 | -0.156 | |
| 20 | 8.0562 | 8.2882 | 8.4889 | 0.1527 | 8.0982 | 8.3476 | 8.5882 | 0.16988 | -0.0808 | 0.05937 | 0.189 | 0.077476 |
| 30 | 8.1913 | 8.2771 | 8.4132 | 0.066154 | 8.0829 | 8.3019 | 8.3869 | 0.088904 | -0.3303 | 0.02488 | 0.1919 | 0.1457 |
| 50 | 8.0157 | 8.1854 | 8.3989 | 0.11498 | 8.0874 | 8.276 | 8.4637 | 0.11376 | -0.0744 | 0.0906 | 0.2153 | 0.07913 |

Device Test: 35.9 I_OP_HS_PWM_1MHZ(_Iop HS BOOT PWM 1MHz VIN_10V)

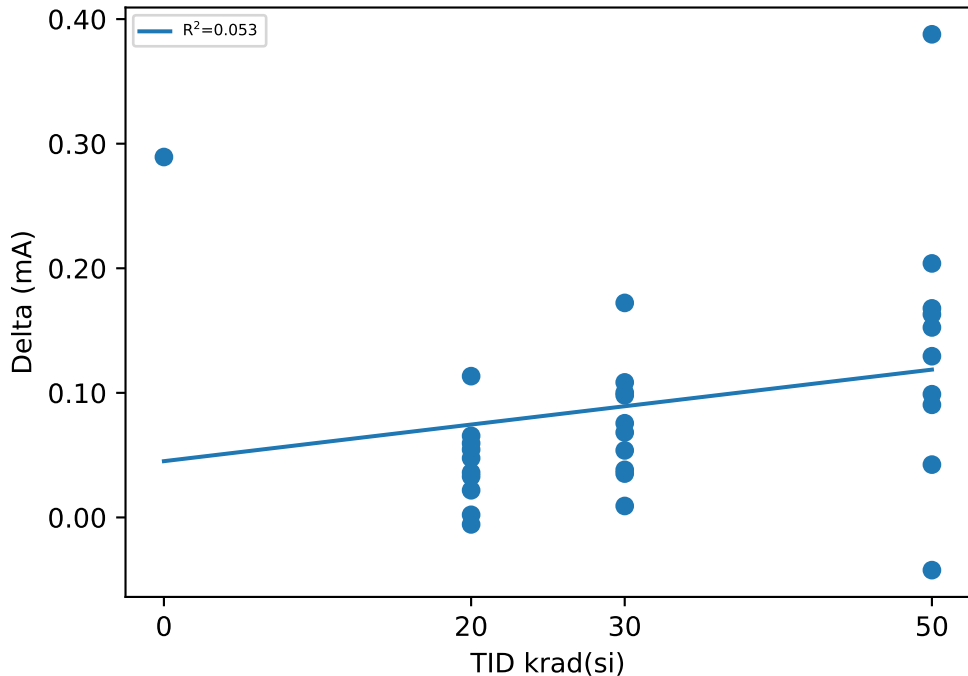
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.4652 | 5.7545 | 0.2893 |
| 321 | 20 | HDR unbiased | 5.4348 | 5.4292 | -0.0056 |
| 322 | 20 | HDR unbiased | 5.6597 | 5.6618 | 0.0021 |
| 323 | 20 | HDR unbiased | 5.636 | 5.6689 | 0.0329 |
| 324 | 20 | HDR unbiased | 5.4848 | 5.5443 | 0.0595 |
| 325 | 20 | HDR unbiased | 5.4262 | 5.4917 | 0.0655 |
| 331 | 30 | HDR unbiased | 5.4675 | 5.5655 | 0.098 |
| 332 | 30 | HDR unbiased | 5.5059 | 5.6143 | 0.1084 |
| 333 | 30 | HDR unbiased | 5.458 | 5.5262 | 0.0682 |
| 334 | 30 | HDR unbiased | 5.6145 | 5.6527 | 0.0382 |
| 335 | 30 | HDR unbiased | 5.5079 | 5.5835 | 0.0756 |
| 351 | 50 | HDR unbiased | 5.4193 | 5.8071 | 0.3878 |
| 352 | 50 | HDR unbiased | 5.575 | 5.6739 | 0.0989 |
| 353 | 50 | HDR unbiased | 5.6714 | 5.6291 | -0.0423 |
| 354 | 50 | HDR unbiased | 5.6026 | 5.645 | 0.0424 |
| 355 | 50 | HDR unbiased | 5.5267 | 5.7306 | 0.2039 |
| 521 | 20 | HDR biased | 5.6024 | 5.6242 | 0.0218 |
| 522 | 20 | HDR biased | 5.5401 | 5.5946 | 0.0545 |
| 523 | 20 | HDR biased | 5.4523 | 5.4999 | 0.0476 |
| 524 | 20 | HDR biased | 5.4231 | 5.5365 | 0.1134 |
| 525 | 20 | HDR biased | 5.474 | 5.51 | 0.036 |
| 531 | 30 | HDR biased | 5.5432 | 5.597 | 0.0538 |
| 532 | 30 | HDR biased | 5.4533 | 5.6255 | 0.1722 |
| 533 | 30 | HDR biased | 5.5154 | 5.5246 | 0.0092 |
| 534 | 30 | HDR biased | 5.6085 | 5.6437 | 0.0352 |
| 535 | 30 | HDR biased | 5.5127 | 5.6129 | 0.1002 |
| 551 | 50 | HDR biased | 5.647 | 5.7374 | 0.0904 |
| 552 | 50 | HDR biased | 5.5612 | 5.7137 | 0.1525 |
| 553 | 50 | HDR biased | 5.6233 | 5.7527 | 0.1294 |
| 554 | 50 | HDR biased | 5.4197 | 5.5875 | 0.1678 |
| 555 | 50 | HDR biased | 5.3411 | 5.5041 | 0.163 |

TID vs Post - Pre Exposure Delta

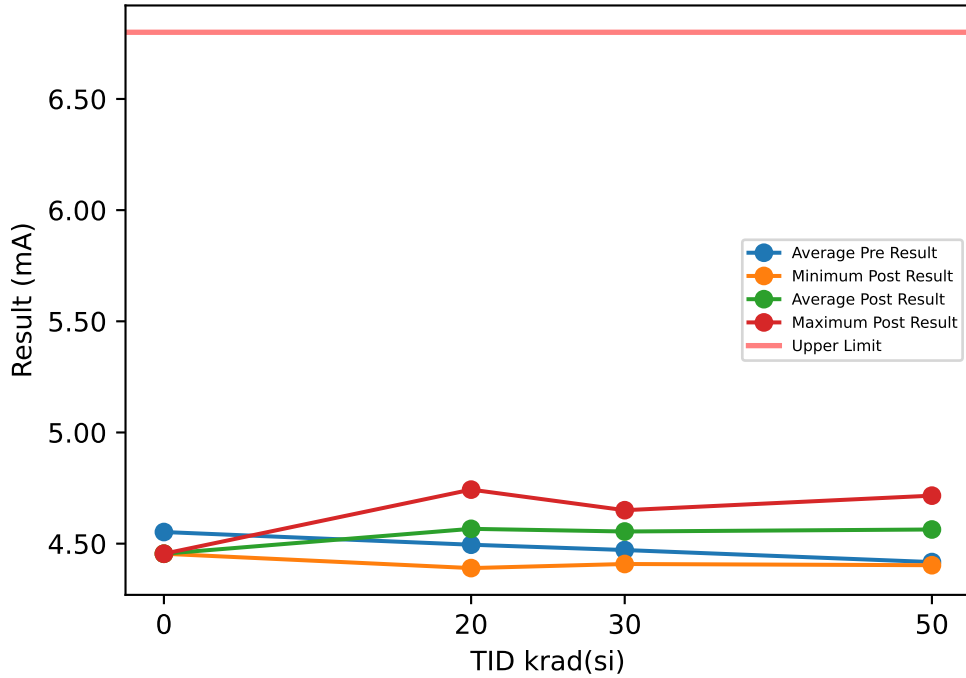


Test Statistics (mA)

| 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 | 5.4652 | 5.4652 | 5.4652 | | 5.7545 | 5.7545 | 5.7545 | | 0.2893 | 0.2893 | 0.2893 | |
| 20 | 5.4231 | 5.5133 | 5.6597 | 0.090128 | 5.4292 | 5.5561 | 5.6689 | 0.078933 | -0.0056 | 0.04277 | 0.1134 | 0.034194 |
| 30 | 5.4533 | 5.5187 | 5.6145 | 0.056522 | 5.5246 | 5.5946 | 5.6527 | 0.044744 | 0.0092 | 0.0759 | 0.1722 | 0.046528 |
| 50 | 5.3411 | 5.5387 | 5.6714 | 0.11056 | 5.5041 | 5.6781 | 5.8071 | 0.089284 | -0.0423 | 0.13938 | 0.3878 | 0.11253 |

Device Test: 36.0 IQ_LS_PWM(_Iq LS VIN PWM VIN_12V)

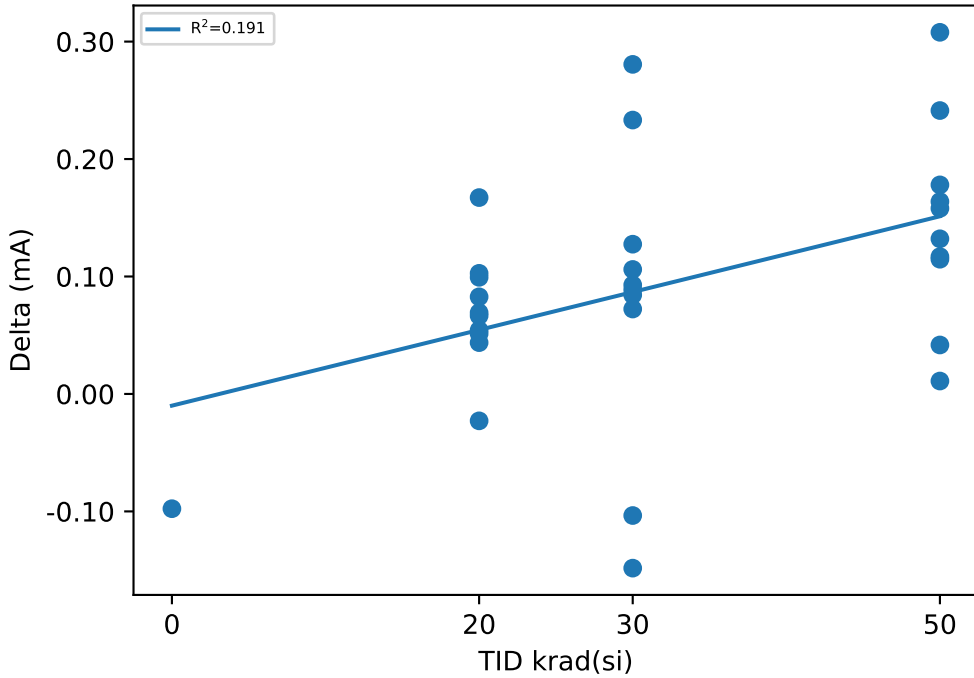
TID vs Result Stats



Test Results (Upper Limit = 6.8 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.5523 | 4.4546 | -0.0977 |
| 321 | 20 | HDR unbiased | 4.4893 | 4.5436 | 0.0543 |
| 322 | 20 | HDR unbiased | 4.3464 | 4.3901 | 0.0437 |
| 323 | 20 | HDR unbiased | 4.3219 | 4.3911 | 0.0692 |
| 324 | 20 | HDR unbiased | 4.3996 | 4.4662 | 0.0666 |
| 325 | 20 | HDR unbiased | 4.444 | 4.4953 | 0.0513 |
| 331 | 30 | HDR unbiased | 4.5058 | 4.5945 | 0.0887 |
| 332 | 30 | HDR unbiased | 4.3732 | 4.466 | 0.0928 |
| 333 | 30 | HDR unbiased | 4.5067 | 4.6127 | 0.106 |
| 334 | 30 | HDR unbiased | 4.5031 | 4.5874 | 0.0843 |
| 335 | 30 | HDR unbiased | 4.4635 | 4.591 | 0.1275 |
| 351 | 50 | HDR unbiased | 4.4285 | 4.4702 | 0.0417 |
| 352 | 50 | HDR unbiased | 4.402 | 4.5189 | 0.1169 |
| 353 | 50 | HDR unbiased | 4.3175 | 4.6254 | 0.3079 |
| 354 | 50 | HDR unbiased | 4.2809 | 4.5222 | 0.2413 |
| 355 | 50 | HDR unbiased | 4.392 | 4.403 | 0.011 |
| 521 | 20 | HDR biased | 4.6403 | 4.743 | 0.1027 |
| 522 | 20 | HDR biased | 4.5644 | 4.6471 | 0.0827 |
| 523 | 20 | HDR biased | 4.5283 | 4.6276 | 0.0993 |
| 524 | 20 | HDR biased | 4.6539 | 4.631 | -0.0229 |
| 525 | 20 | HDR biased | 4.564 | 4.7312 | 0.1672 |
| 531 | 30 | HDR biased | 4.3698 | 4.6504 | 0.2806 |
| 532 | 30 | HDR biased | 4.5568 | 4.4085 | -0.1483 |
| 533 | 30 | HDR biased | 4.3912 | 4.6244 | 0.2332 |
| 534 | 30 | HDR biased | 4.4886 | 4.5609 | 0.0723 |
| 535 | 30 | HDR biased | 4.5544 | 4.4509 | -0.1035 |
| 551 | 50 | HDR biased | 4.4537 | 4.6117 | 0.158 |
| 552 | 50 | HDR biased | 4.5521 | 4.7159 | 0.1638 |
| 553 | 50 | HDR biased | 4.4515 | 4.5662 | 0.1147 |
| 554 | 50 | HDR biased | 4.511 | 4.689 | 0.178 |
| 555 | 50 | HDR biased | 4.3821 | 4.5142 | 0.1321 |

TID vs Post - Pre Exposure Delta

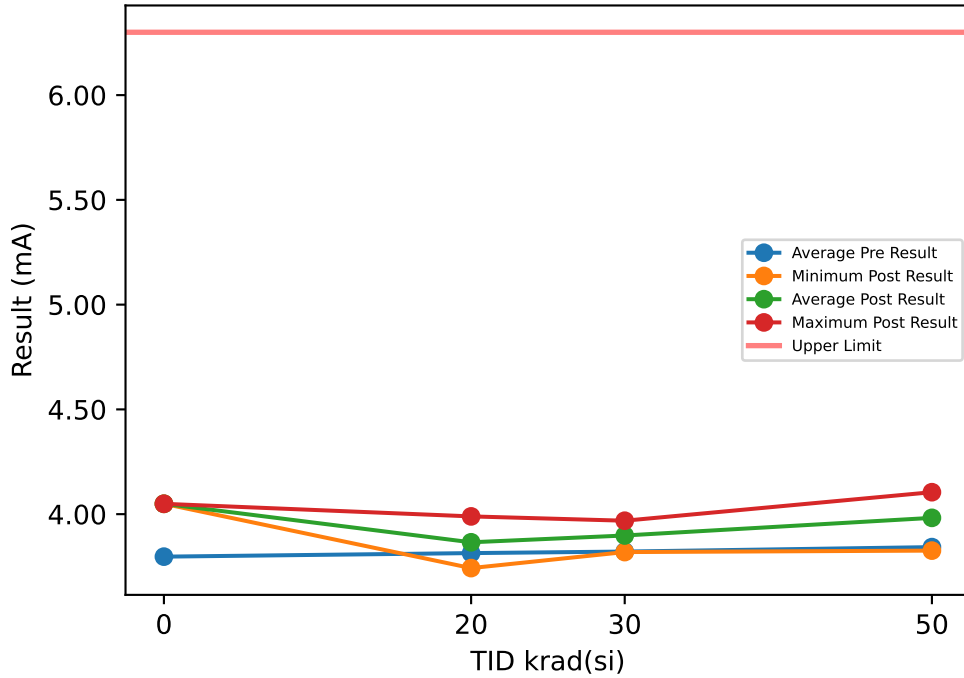


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.5523 | 4.5523 | 4.5523 | | 4.4546 | 4.4546 | 4.4546 | | -0.0977 | -0.0977 | -0.0977 | |
| 20 | 4.3219 | 4.4952 | 4.6539 | 0.11587 | 4.3901 | 4.5666 | 4.743 | 0.12919 | -0.0229 | 0.07141 | 0.1672 | 0.048817 |
| 30 | 4.3698 | 4.4713 | 4.5568 | 0.070216 | 4.4085 | 4.5547 | 4.6504 | 0.082601 | -0.1483 | 0.08336 | 0.2806 | 0.13023 |
| 50 | 4.2809 | 4.4171 | 4.5521 | 0.081819 | 4.403 | 4.5637 | 4.7159 | 0.097598 | 0.011 | 0.14654 | 0.3079 | 0.086858 |

Device Test: 36.1 IQ_HS_PWM(Iq HS BOOT PWM VIN_12V)

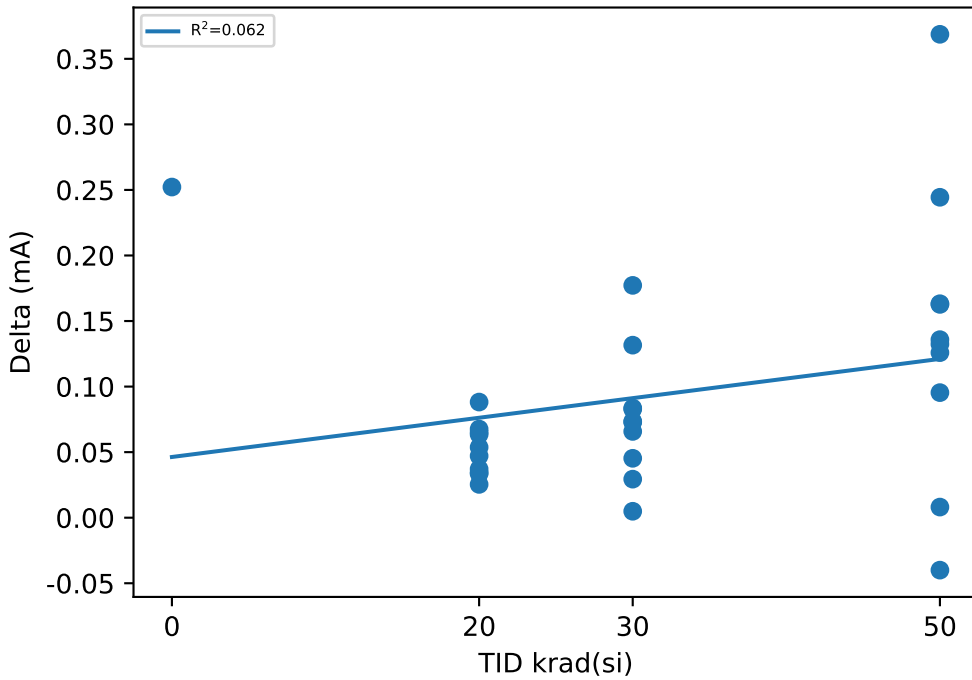
TID vs Result Stats



Test Results (Upper Limit = 6.3 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|--------|
| 1 | 0 | correlation | 3.7972 | 4.0494 | 0.2522 |
| 321 | 20 | HDR unbiased | 3.7172 | 3.7426 | 0.0254 |
| 322 | 20 | HDR unbiased | 3.9356 | 3.97 | 0.0344 |
| 323 | 20 | HDR unbiased | 3.9557 | 3.9893 | 0.0336 |
| 324 | 20 | HDR unbiased | 3.7706 | 3.8357 | 0.0651 |
| 325 | 20 | HDR unbiased | 3.7478 | 3.7849 | 0.0371 |
| 331 | 30 | HDR unbiased | 3.7883 | 3.8618 | 0.0735 |
| 332 | 30 | HDR unbiased | 3.8136 | 3.8964 | 0.0828 |
| 333 | 30 | HDR unbiased | 3.7684 | 3.8342 | 0.0658 |
| 334 | 30 | HDR unbiased | 3.9026 | 3.9479 | 0.0453 |
| 335 | 30 | HDR unbiased | 3.7969 | 3.8805 | 0.0836 |
| 351 | 50 | HDR unbiased | 3.7361 | 4.1048 | 0.3687 |
| 352 | 50 | HDR unbiased | 3.8585 | 3.9909 | 0.1324 |
| 353 | 50 | HDR unbiased | 3.9604 | 3.9204 | -0.04 |
| 354 | 50 | HDR unbiased | 3.923 | 3.9311 | 0.0081 |
| 355 | 50 | HDR unbiased | 3.8044 | 4.0488 | 0.2444 |
| 521 | 20 | HDR biased | 3.8941 | 3.9478 | 0.0537 |
| 522 | 20 | HDR biased | 3.8274 | 3.8909 | 0.0635 |
| 523 | 20 | HDR biased | 3.7754 | 3.8225 | 0.0471 |
| 524 | 20 | HDR biased | 3.7492 | 3.8374 | 0.0882 |
| 525 | 20 | HDR biased | 3.7683 | 3.8359 | 0.0676 |
| 531 | 30 | HDR biased | 3.861 | 3.8904 | 0.0294 |
| 532 | 30 | HDR biased | 3.7744 | 3.9516 | 0.1772 |
| 533 | 30 | HDR biased | 3.8141 | 3.819 | 0.0049 |
| 534 | 30 | HDR biased | 3.8959 | 3.9687 | 0.0728 |
| 535 | 30 | HDR biased | 3.7995 | 3.9311 | 0.1316 |
| 551 | 50 | HDR biased | 3.9378 | 4.0332 | 0.0954 |
| 552 | 50 | HDR biased | 3.8831 | 4.009 | 0.1259 |
| 553 | 50 | HDR biased | 3.9142 | 4.0769 | 0.1627 |
| 554 | 50 | HDR biased | 3.7463 | 3.8821 | 0.1358 |
| 555 | 50 | HDR biased | 3.6628 | 3.826 | 0.1632 |

TID vs Post - Pre Exposure Delta

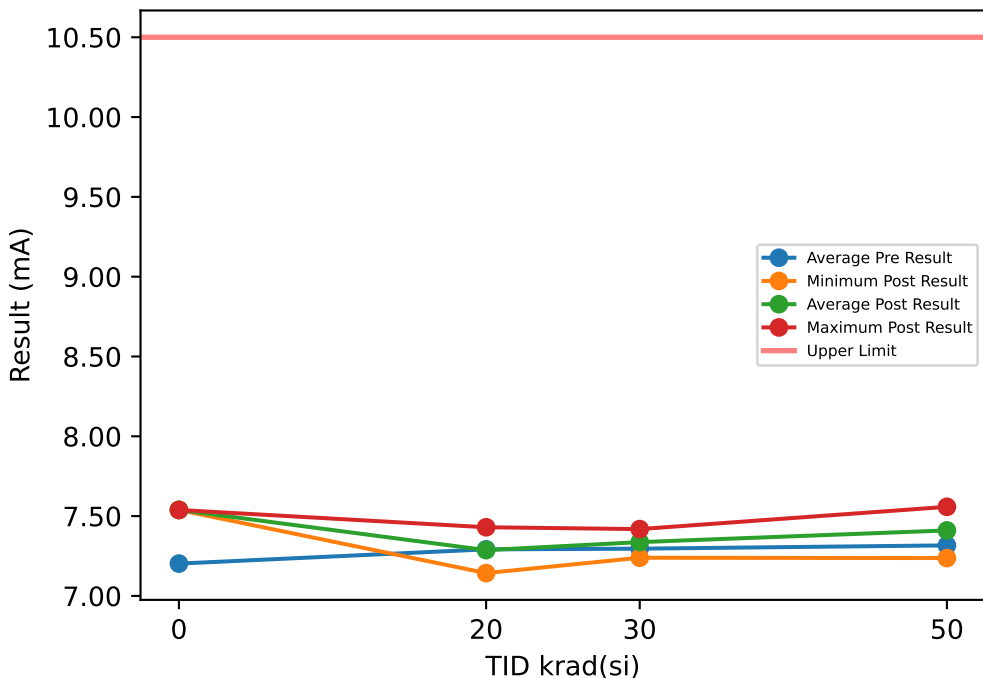


Test Statistics (mA)

| 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 | 3.7972 | 3.7972 | 3.7972 | | 4.0494 | 4.0494 | 4.0494 | | 0.2522 | 0.2522 | 0.2522 | |
| 20 | 3.7172 | 3.8141 | 3.9557 | 0.084902 | 3.7426 | 3.8657 | 3.9893 | 0.081424 | 0.0254 | 0.05157 | 0.0882 | 0.019609 |
| 30 | 3.7684 | 3.8215 | 3.9026 | 0.048327 | 3.819 | 3.8982 | 3.9687 | 0.051039 | 0.0049 | 0.07669 | 0.1772 | 0.049128 |
| 50 | 3.6628 | 3.8427 | 3.9604 | 0.10046 | 3.826 | 3.9823 | 4.1048 | 0.089863 | -0.04 | 0.13966 | 0.3687 | 0.11368 |

Device Test: 36.11 I_OP_HS_PWM_2MHZ(_lop HS BOOT PWM 2MHz VIN_12V)

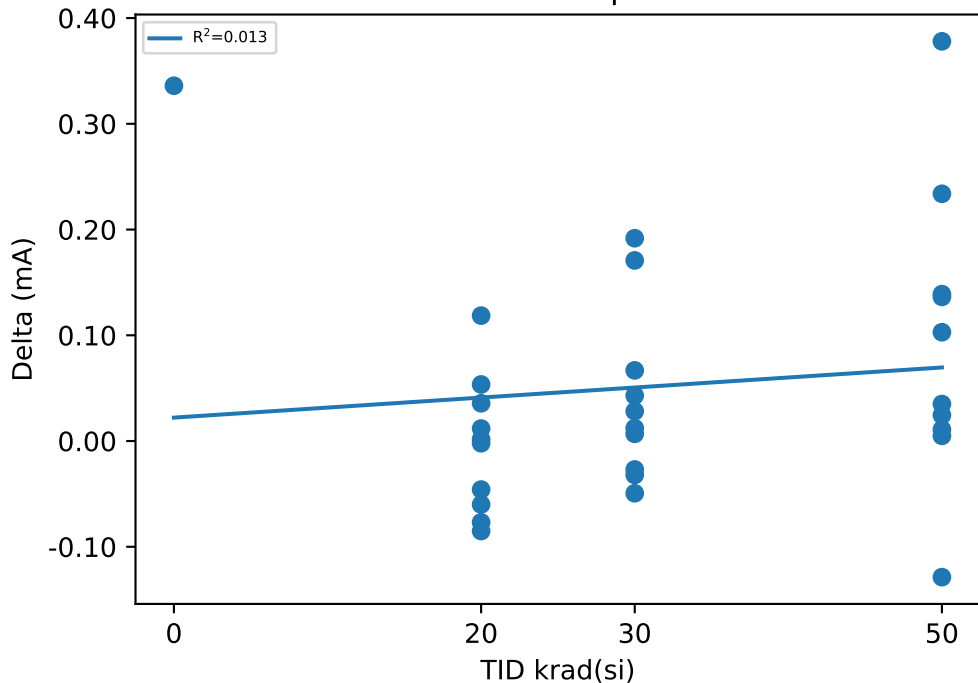
TID vs Result Stats



Test Results (Upper Limit = 10.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.2025 | 7.5385 | 0.336 |
| 321 | 20 | HDR unbiased | 7.2281 | 7.143 | -0.0851 |
| 322 | 20 | HDR unbiased | 7.4783 | 7.4014 | -0.0769 |
| 323 | 20 | HDR unbiased | 7.3766 | 7.4301 | 0.0535 |
| 324 | 20 | HDR unbiased | 7.2904 | 7.2883 | -0.0021 |
| 325 | 20 | HDR unbiased | 7.1868 | 7.2225 | 0.0357 |
| 331 | 30 | HDR unbiased | 7.2287 | 7.2955 | 0.0668 |
| 332 | 30 | HDR unbiased | 7.2268 | 7.4186 | 0.1918 |
| 333 | 30 | HDR unbiased | 7.2269 | 7.2391 | 0.0122 |
| 334 | 30 | HDR unbiased | 7.4166 | 7.3845 | -0.0321 |
| 335 | 30 | HDR unbiased | 7.3171 | 7.3239 | 0.0068 |
| 351 | 50 | HDR unbiased | 7.1801 | 7.5581 | 0.378 |
| 352 | 50 | HDR unbiased | 7.3848 | 7.3897 | 0.0049 |
| 353 | 50 | HDR unbiased | 7.4775 | 7.3488 | -0.1287 |
| 354 | 50 | HDR unbiased | 7.37 | 7.381 | 0.011 |
| 355 | 50 | HDR unbiased | 7.3362 | 7.4391 | 0.1029 |
| 521 | 20 | HDR biased | 7.391 | 7.331 | -0.06 |
| 522 | 20 | HDR biased | 7.3472 | 7.359 | 0.0118 |
| 523 | 20 | HDR biased | 7.218 | 7.2197 | 0.0017 |
| 524 | 20 | HDR biased | 7.1438 | 7.2624 | 0.1186 |
| 525 | 20 | HDR biased | 7.256 | 7.2101 | -0.0459 |
| 531 | 30 | HDR biased | 7.3017 | 7.3299 | 0.0282 |
| 532 | 30 | HDR biased | 7.2162 | 7.387 | 0.1708 |
| 533 | 30 | HDR biased | 7.2915 | 7.2646 | -0.0269 |
| 534 | 30 | HDR biased | 7.4183 | 7.3689 | -0.0494 |
| 535 | 30 | HDR biased | 7.3154 | 7.3584 | 0.043 |
| 551 | 50 | HDR biased | 7.4483 | 7.4728 | 0.0245 |
| 552 | 50 | HDR biased | 7.2674 | 7.5012 | 0.2338 |
| 553 | 50 | HDR biased | 7.4228 | 7.4578 | 0.035 |
| 554 | 50 | HDR biased | 7.1806 | 7.3169 | 0.1363 |
| 555 | 50 | HDR biased | 7.0982 | 7.2371 | 0.1389 |

TID vs Post - Pre Exposure Delta

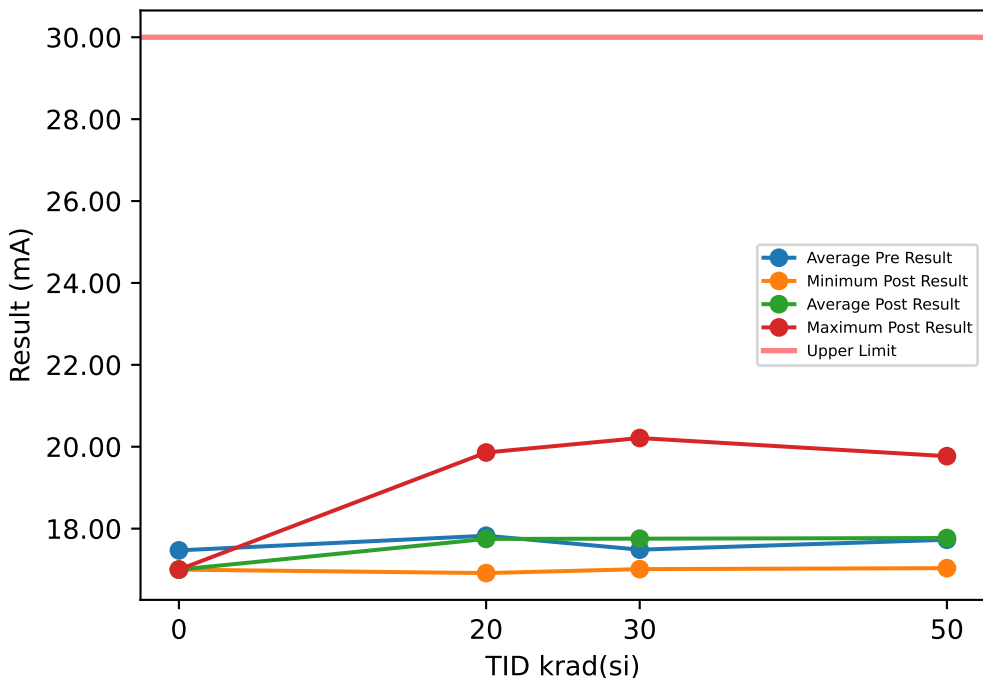


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.2025 | 7.2025 | 7.2025 | | 7.5385 | 7.5385 | 7.5385 | | 0.336 | 0.336 | 0.336 | |
| 20 | 7.1438 | 7.2916 | 7.4783 | 0.10467 | 7.143 | 7.2868 | 7.4301 | 0.092274 | -0.0851 | -0.00487 | 0.1186 | 0.064096 |
| 30 | 7.2162 | 7.2959 | 7.4183 | 0.075157 | 7.2391 | 7.337 | 7.4186 | 0.057408 | -0.0494 | 0.04112 | 0.1918 | 0.082021 |
| 50 | 7.0982 | 7.3166 | 7.4775 | 0.12895 | 7.2371 | 7.4103 | 7.5581 | 0.094802 | -0.1287 | 0.09366 | 0.378 | 0.14017 |

Device Test: 36.12 I_OP_LS_PWM_5MHZ(Iop LS VIN PWM 5MHz VIN_12V)

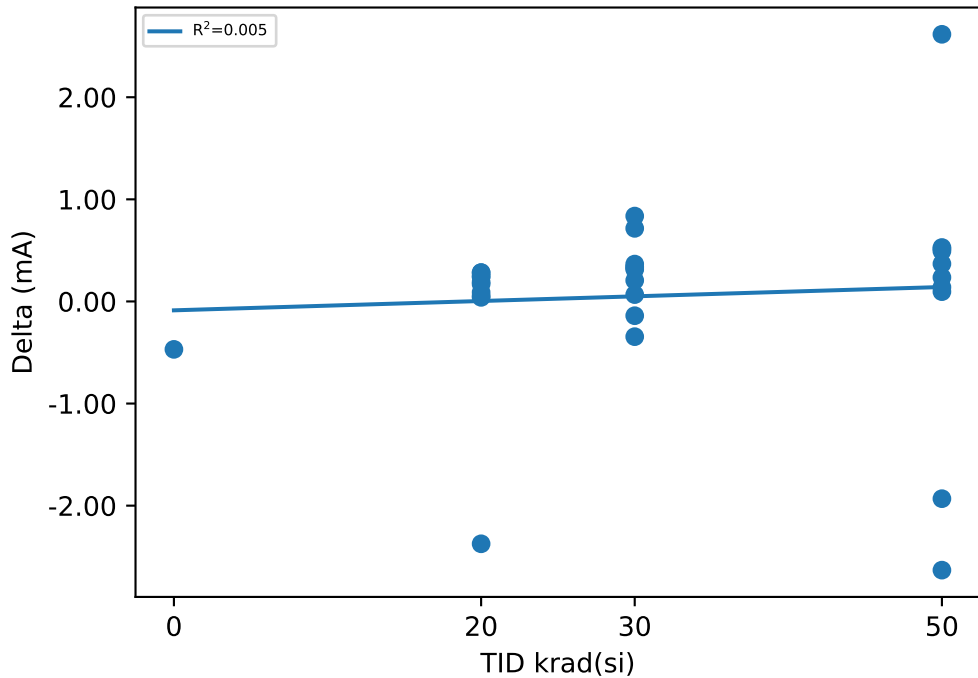
TID vs Result Stats



Test Results (Upper Limit = 30.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 17.469 | 16.999 | -0.4694 |
| 321 | 20 | HDR unbiased | 17.355 | 17.444 | 0.0894 |
| 322 | 20 | HDR unbiased | 17.114 | 17.168 | 0.0539 |
| 323 | 20 | HDR unbiased | 19.288 | 16.914 | -2.3735 |
| 324 | 20 | HDR unbiased | 19.819 | 19.859 | 0.04 |
| 325 | 20 | HDR unbiased | 17.027 | 17.268 | 0.2405 |
| 331 | 30 | HDR unbiased | 17.337 | 17.677 | 0.3402 |
| 332 | 30 | HDR unbiased | 19.846 | 20.212 | 0.3659 |
| 333 | 30 | HDR unbiased | 17.546 | 17.874 | 0.3284 |
| 334 | 30 | HDR unbiased | 17.26 | 17.466 | 0.2061 |
| 335 | 30 | HDR unbiased | 17.133 | 17.446 | 0.3137 |
| 351 | 50 | HDR unbiased | 17.153 | 19.769 | 2.6162 |
| 352 | 50 | HDR unbiased | 17.012 | 17.151 | 0.1395 |
| 353 | 50 | HDR unbiased | 19.782 | 17.85 | -1.9317 |
| 354 | 50 | HDR unbiased | 16.899 | 17.428 | 0.5283 |
| 355 | 50 | HDR unbiased | 17.104 | 17.339 | 0.2354 |
| 521 | 20 | HDR biased | 17.731 | 17.901 | 0.1697 |
| 522 | 20 | HDR biased | 17.306 | 17.552 | 0.2469 |
| 523 | 20 | HDR biased | 17.462 | 17.745 | 0.283 |
| 524 | 20 | HDR biased | 17.545 | 17.826 | 0.281 |
| 525 | 20 | HDR biased | 17.617 | 17.806 | 0.1898 |
| 531 | 30 | HDR biased | 16.808 | 17.644 | 0.8361 |
| 532 | 30 | HDR biased | 17.354 | 17.214 | -0.1397 |
| 533 | 30 | HDR biased | 17.021 | 17.737 | 0.7158 |
| 534 | 30 | HDR biased | 17.195 | 17.262 | 0.067 |
| 535 | 30 | HDR biased | 17.356 | 17.011 | -0.345 |
| 551 | 50 | HDR biased | 17.616 | 17.984 | 0.3685 |
| 552 | 50 | HDR biased | 17.199 | 17.692 | 0.4928 |
| 553 | 50 | HDR biased | 17.598 | 17.694 | 0.0958 |
| 554 | 50 | HDR biased | 17.251 | 17.766 | 0.5151 |
| 555 | 50 | HDR biased | 19.666 | 17.034 | -2.6315 |

TID vs Post - Pre Exposure Delta

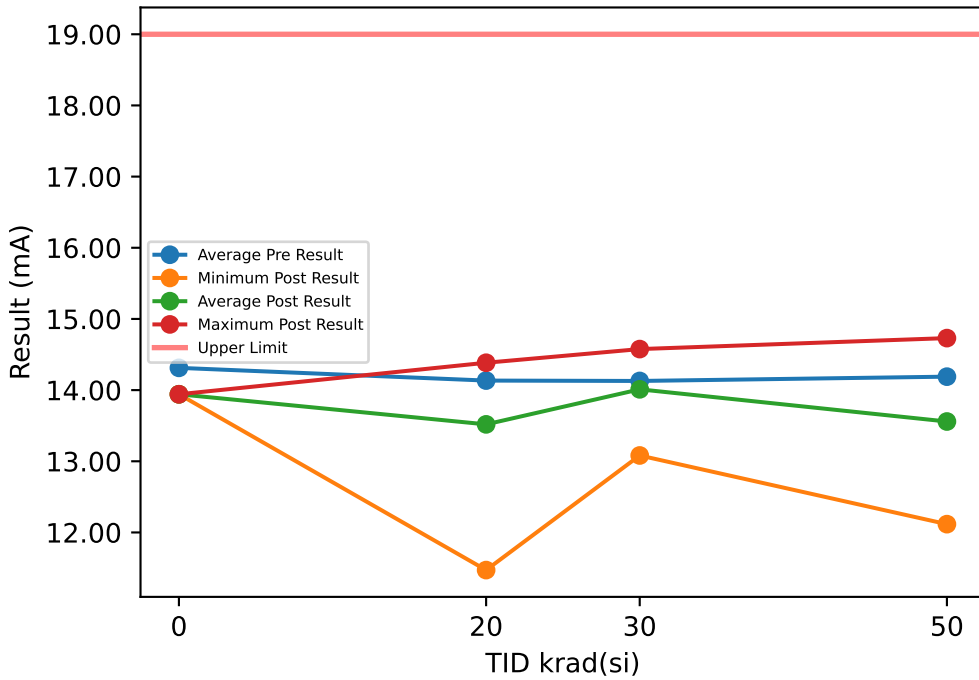


Test Statistics (mA)

| 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 | 17.469 | 17.469 | 17.469 | | 16.999 | 16.999 | 16.999 | | -0.4694 | -0.4694 | -0.4694 | |
| 20 | 17.027 | 17.826 | 19.819 | 0.94332 | 16.914 | 17.748 | 19.859 | 0.80834 | -2.3735 | -0.07793 | 0.283 | 0.81158 |
| 30 | 16.808 | 17.486 | 19.846 | 0.85427 | 17.011 | 17.754 | 20.212 | 0.90303 | -0.345 | 0.26885 | 0.8361 | 0.35434 |
| 50 | 16.899 | 17.728 | 19.782 | 1.0766 | 17.034 | 17.771 | 19.769 | 0.76658 | -2.6315 | 0.04284 | 2.6162 | 1.4333 |

Device Test: 36.13 I_OP_HS_PWM_5MHZ(_lop HS BOOT PWM 5MHz VIN_12V)

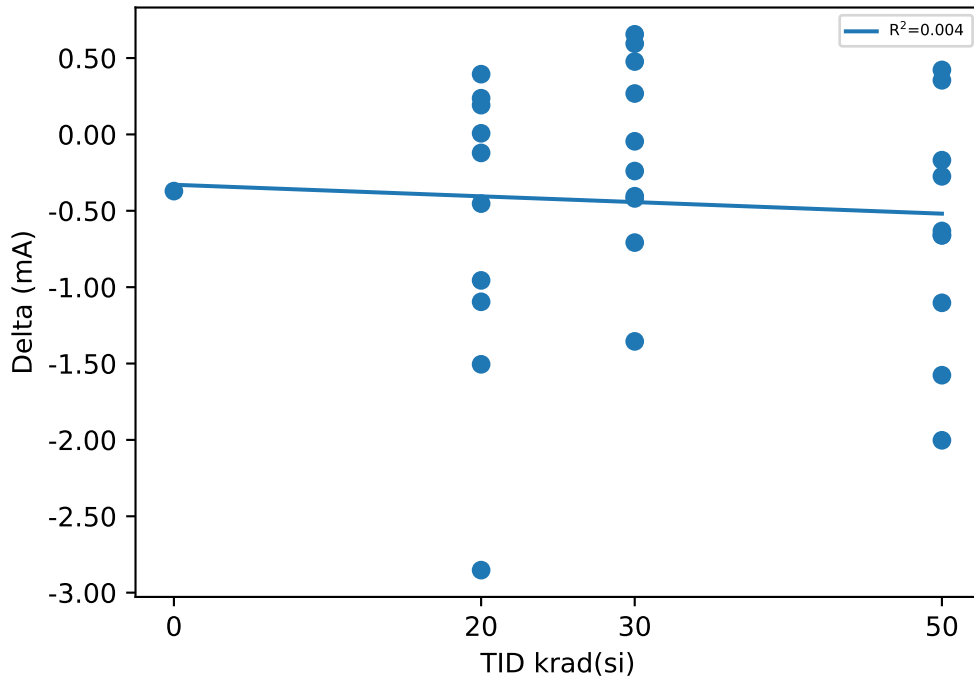
TID vs Result Stats



Test Results (Upper Limit = 19.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 14.313 | 13.942 | -0.3711 |
| 321 | 20 | HDR unbiased | 14.248 | 13.152 | -1.0958 |
| 322 | 20 | HDR unbiased | 14.506 | 14.384 | -0.1211 |
| 323 | 20 | HDR unbiased | 14.195 | 14.202 | 0.0073 |
| 324 | 20 | HDR unbiased | 14.338 | 13.885 | -0.453 |
| 325 | 20 | HDR unbiased | 14.369 | 12.864 | -1.5051 |
| 331 | 30 | HDR unbiased | 14.172 | 13.464 | -0.7082 |
| 332 | 30 | HDR unbiased | 14.176 | 13.936 | -0.2397 |
| 333 | 30 | HDR unbiased | 14.437 | 13.082 | -1.355 |
| 334 | 30 | HDR unbiased | 14.188 | 13.784 | -0.4046 |
| 335 | 30 | HDR unbiased | 14.519 | 14.474 | -0.0451 |
| 351 | 50 | HDR unbiased | 14.376 | 14.731 | 0.3543 |
| 352 | 50 | HDR unbiased | 14.063 | 13.789 | -0.2745 |
| 353 | 50 | HDR unbiased | 14.119 | 12.117 | -2.0026 |
| 354 | 50 | HDR unbiased | 14.315 | 12.738 | -1.5764 |
| 355 | 50 | HDR unbiased | 14.399 | 13.767 | -0.6321 |
| 521 | 20 | HDR biased | 14.572 | 13.616 | -0.9557 |
| 522 | 20 | HDR biased | 13.923 | 14.318 | 0.3944 |
| 523 | 20 | HDR biased | 13.674 | 13.912 | 0.2372 |
| 524 | 20 | HDR biased | 13.191 | 13.383 | 0.1917 |
| 525 | 20 | HDR biased | 14.324 | 11.471 | -2.8526 |
| 531 | 30 | HDR biased | 14.153 | 13.734 | -0.419 |
| 532 | 30 | HDR biased | 13.829 | 14.485 | 0.6554 |
| 533 | 30 | HDR biased | 13.502 | 14.097 | 0.5945 |
| 534 | 30 | HDR biased | 14.001 | 14.478 | 0.4771 |
| 535 | 30 | HDR biased | 14.309 | 14.576 | 0.2678 |
| 551 | 50 | HDR biased | 14.213 | 13.553 | -0.6601 |
| 552 | 50 | HDR biased | 13.873 | 13.704 | -0.1686 |
| 553 | 50 | HDR biased | 14.316 | 13.655 | -0.6609 |
| 554 | 50 | HDR biased | 14.245 | 13.143 | -1.1025 |
| 555 | 50 | HDR biased | 13.97 | 14.392 | 0.4223 |

TID vs Post - Pre Exposure Delta

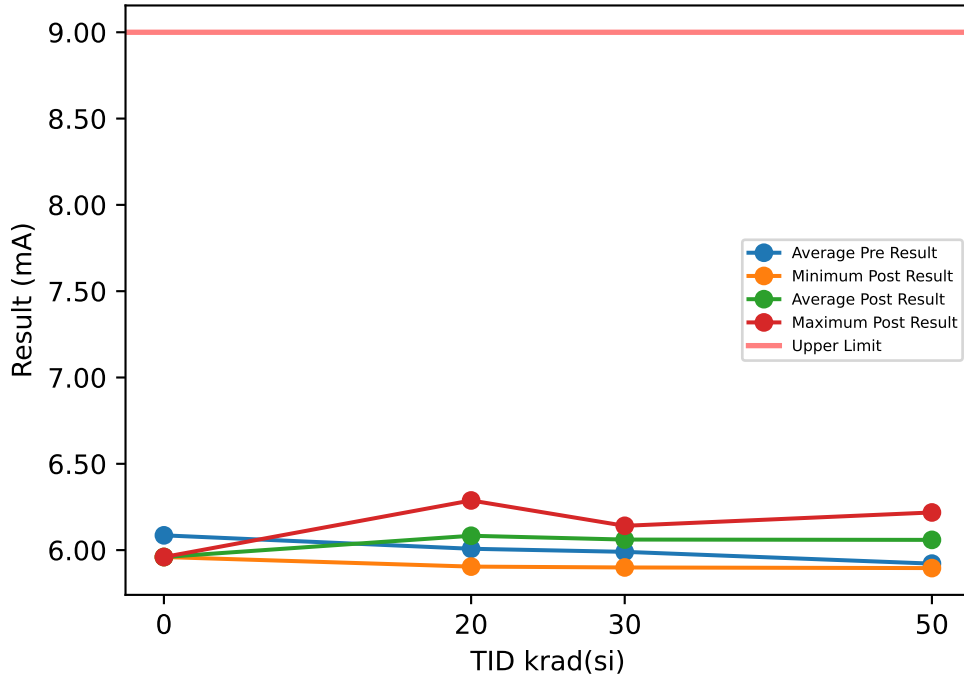


Test Statistics (mA)

| 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 | 14.313 | 14.313 | 14.313 | | 13.942 | 13.942 | 13.942 | | -0.3711 | -0.3711 | -0.3711 | |
| 20 | 13.191 | 14.134 | 14.572 | 0.42473 | 11.471 | 13.519 | 14.384 | 0.87728 | -2.8526 | -0.61527 | 0.3944 | 1.011 |
| 30 | 13.502 | 14.129 | 14.519 | 0.29563 | 13.082 | 14.011 | 14.576 | 0.50345 | -1.355 | -0.11768 | 0.6554 | 0.63946 |
| 50 | 13.873 | 14.189 | 14.399 | 0.1777 | 12.117 | 13.559 | 14.731 | 0.7543 | -2.0026 | -0.63011 | 0.4223 | 0.77605 |

Device Test: 36.14 I_OP_LS_IIM_500KHZ(_lop LS VIN IIM Interlock 500kHz VIN_12V)

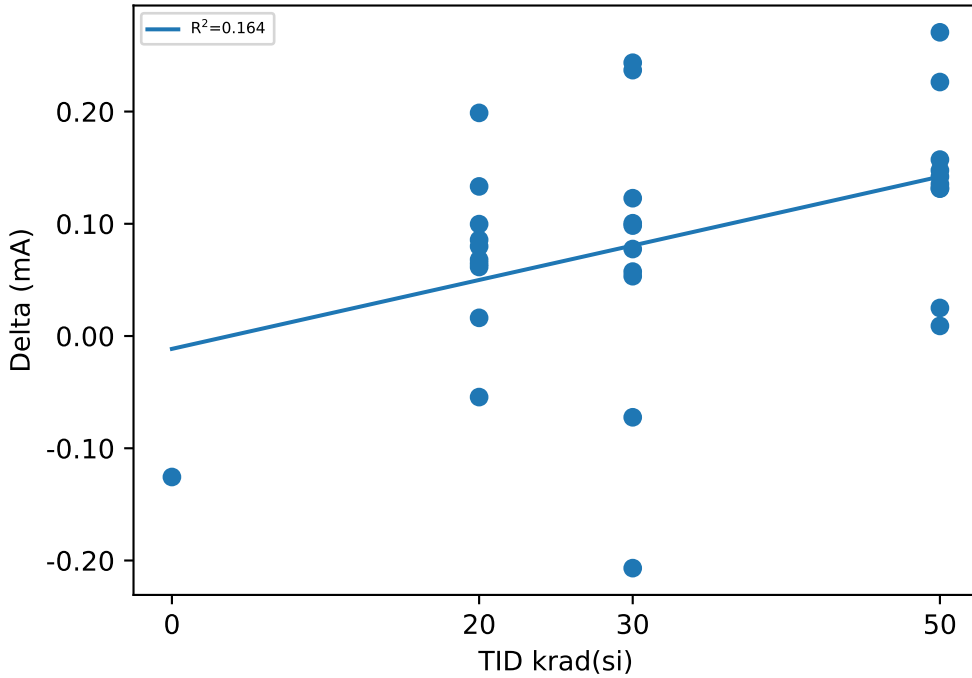
TID vs Result Stats



Test Results (Upper Limit = 9.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.0856 | 5.96 | -0.1256 |
| 321 | 20 | HDR unbiased | 5.9856 | 6.0655 | 0.0799 |
| 322 | 20 | HDR unbiased | 5.8456 | 5.9136 | 0.068 |
| 323 | 20 | HDR unbiased | 5.84 | 5.9045 | 0.0645 |
| 324 | 20 | HDR unbiased | 5.8654 | 5.9269 | 0.0615 |
| 325 | 20 | HDR unbiased | 5.9886 | 6.0048 | 0.0162 |
| 331 | 30 | HDR unbiased | 6.0432 | 6.0965 | 0.0533 |
| 332 | 30 | HDR unbiased | 5.9274 | 5.9848 | 0.0574 |
| 333 | 30 | HDR unbiased | 6.018 | 6.1185 | 0.1005 |
| 334 | 30 | HDR unbiased | 6.006 | 6.0835 | 0.0775 |
| 335 | 30 | HDR unbiased | 5.9575 | 6.0803 | 0.1228 |
| 351 | 50 | HDR unbiased | 5.9358 | 5.9608 | 0.025 |
| 352 | 50 | HDR unbiased | 5.8744 | 6.0097 | 0.1353 |
| 353 | 50 | HDR unbiased | 5.8201 | 6.0907 | 0.2706 |
| 354 | 50 | HDR unbiased | 5.7811 | 6.0074 | 0.2263 |
| 355 | 50 | HDR unbiased | 5.8869 | 5.8959 | 0.009 |
| 521 | 20 | HDR biased | 6.1544 | 6.2877 | 0.1333 |
| 522 | 20 | HDR biased | 6.0659 | 6.1516 | 0.0857 |
| 523 | 20 | HDR biased | 6.0791 | 6.1788 | 0.0997 |
| 524 | 20 | HDR biased | 6.1876 | 6.1332 | -0.0544 |
| 525 | 20 | HDR biased | 6.0661 | 6.2649 | 0.1988 |
| 531 | 30 | HDR biased | 5.9039 | 6.1408 | 0.2369 |
| 532 | 30 | HDR biased | 6.1063 | 5.8995 | -0.2068 |
| 533 | 30 | HDR biased | 5.8929 | 6.1364 | 0.2435 |
| 534 | 30 | HDR biased | 5.9934 | 6.0918 | 0.0984 |
| 535 | 30 | HDR biased | 6.0518 | 5.9794 | -0.0724 |
| 551 | 50 | HDR biased | 5.9705 | 6.1277 | 0.1572 |
| 552 | 50 | HDR biased | 6.0865 | 6.2182 | 0.1317 |
| 553 | 50 | HDR biased | 5.9463 | 6.0883 | 0.142 |
| 554 | 50 | HDR biased | 6.026 | 6.1736 | 0.1476 |
| 555 | 50 | HDR biased | 5.8897 | 6.021 | 0.1313 |

TID vs Post - Pre Exposure Delta

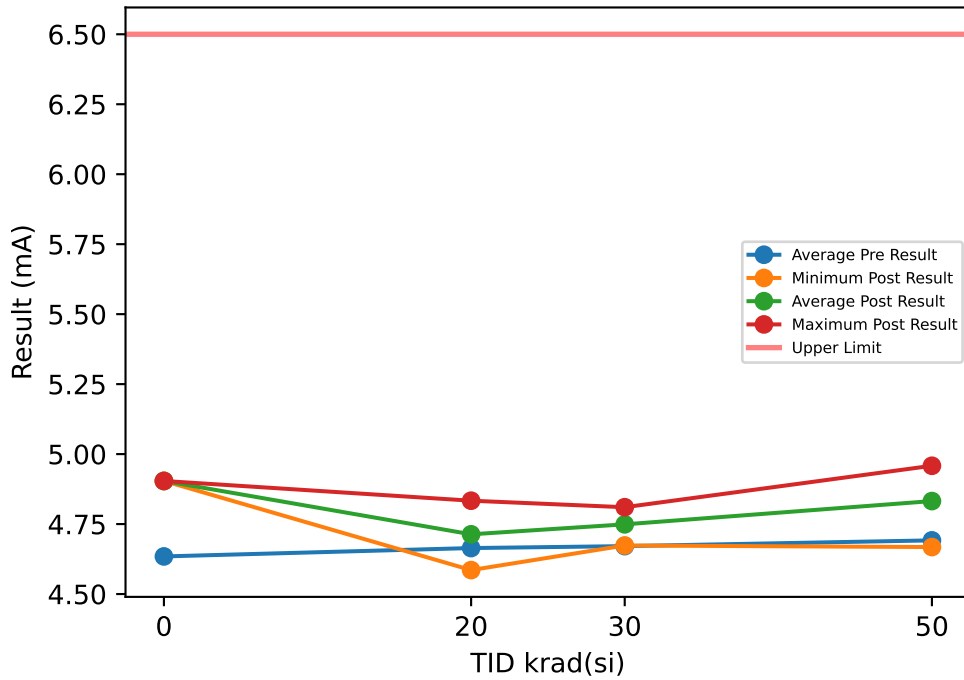


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.0856 | 6.0856 | 6.0856 | | 5.96 | 5.96 | 5.96 | | -0.1256 | -0.1256 | -0.1256 | |
| 20 | 5.84 | 6.0078 | 6.1876 | 0.12529 | 5.9045 | 6.0831 | 6.2877 | 0.14249 | -0.0544 | 0.07532 | 0.1988 | 0.06668 |
| 30 | 5.8929 | 5.99 | 6.1063 | 0.069156 | 5.8995 | 6.0611 | 6.1408 | 0.079578 | -0.2068 | 0.07111 | 0.2435 | 0.13328 |
| 50 | 5.7811 | 5.9217 | 6.0865 | 0.091764 | 5.8959 | 6.0593 | 6.2182 | 0.098794 | 0.009 | 0.1376 | 0.2706 | 0.078427 |

Device Test: 36.15 I_OP_HS_IIM_500KHZ(_Iop HS BOOT IIM Interlock 500kHz VIN_12V)

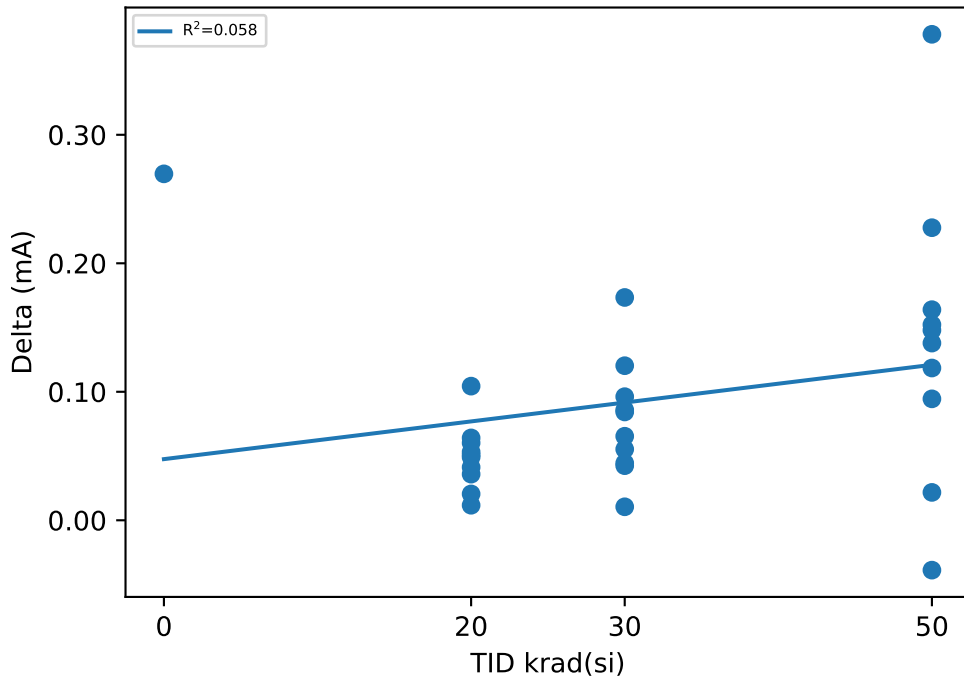
TID vs Result Stats



Test Results (Upper Limit = 6.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.6344 | 4.904 | 0.2696 |
| 321 | 20 | HDR unbiased | 4.5739 | 4.5856 | 0.0117 |
| 322 | 20 | HDR unbiased | 4.7996 | 4.8201 | 0.0205 |
| 323 | 20 | HDR unbiased | 4.7976 | 4.8335 | 0.0359 |
| 324 | 20 | HDR unbiased | 4.6309 | 4.695 | 0.0641 |
| 325 | 20 | HDR unbiased | 4.5872 | 4.6404 | 0.0532 |
| 331 | 30 | HDR unbiased | 4.6301 | 4.716 | 0.0859 |
| 332 | 30 | HDR unbiased | 4.6605 | 4.7567 | 0.0962 |
| 333 | 30 | HDR unbiased | 4.6166 | 4.682 | 0.0654 |
| 334 | 30 | HDR unbiased | 4.7599 | 4.8044 | 0.0445 |
| 335 | 30 | HDR unbiased | 4.6534 | 4.7377 | 0.0843 |
| 351 | 50 | HDR unbiased | 4.5801 | 4.9583 | 0.3782 |
| 352 | 50 | HDR unbiased | 4.7159 | 4.8344 | 0.1185 |
| 353 | 50 | HDR unbiased | 4.8151 | 4.7763 | -0.0388 |
| 354 | 50 | HDR unbiased | 4.7663 | 4.788 | 0.0217 |
| 355 | 50 | HDR unbiased | 4.6658 | 4.8935 | 0.2277 |
| 521 | 20 | HDR biased | 4.7454 | 4.7867 | 0.0413 |
| 522 | 20 | HDR biased | 4.6837 | 4.7439 | 0.0602 |
| 523 | 20 | HDR biased | 4.6148 | 4.6639 | 0.0491 |
| 524 | 20 | HDR biased | 4.5868 | 4.6912 | 0.1044 |
| 525 | 20 | HDR biased | 4.6231 | 4.674 | 0.0509 |
| 531 | 30 | HDR biased | 4.7038 | 4.7463 | 0.0425 |
| 532 | 30 | HDR biased | 4.6141 | 4.7875 | 0.1734 |
| 533 | 30 | HDR biased | 4.663 | 4.6735 | 0.0105 |
| 534 | 30 | HDR biased | 4.7549 | 4.8102 | 0.0553 |
| 535 | 30 | HDR biased | 4.6558 | 4.7761 | 0.1203 |
| 551 | 50 | HDR biased | 4.7918 | 4.8863 | 0.0945 |
| 552 | 50 | HDR biased | 4.7245 | 4.8624 | 0.1379 |
| 553 | 50 | HDR biased | 4.7685 | 4.9164 | 0.1479 |
| 554 | 50 | HDR biased | 4.5858 | 4.738 | 0.1522 |
| 555 | 50 | HDR biased | 4.504 | 4.6679 | 0.1639 |

TID vs Post - Pre Exposure Delta

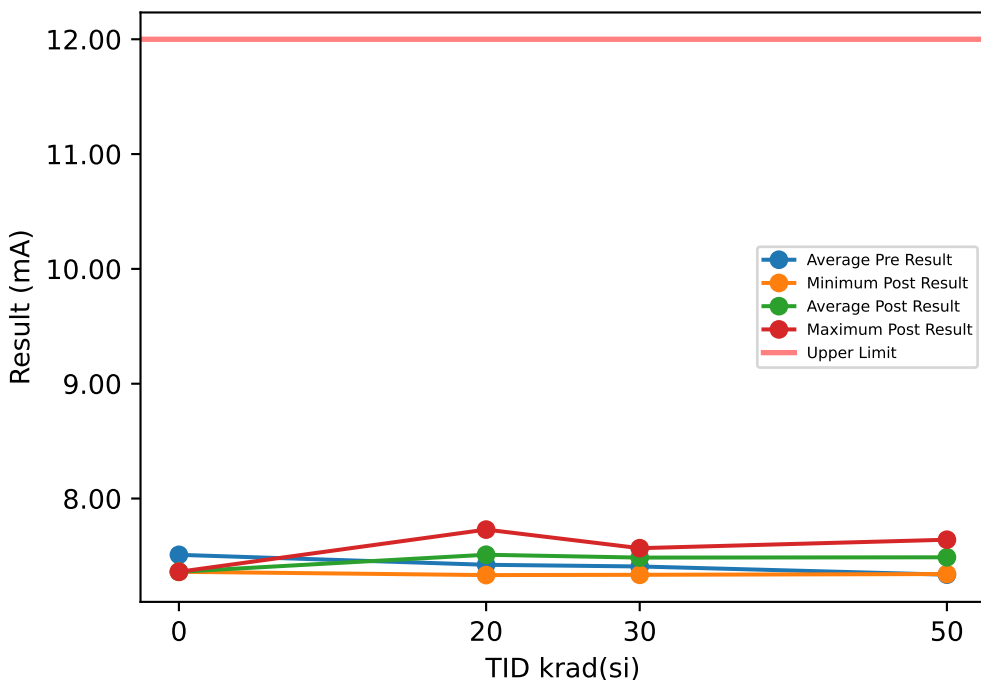


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.6344 | 4.6344 | 4.6344 | | 4.904 | 4.904 | 4.904 | | 0.2696 | 0.2696 | 0.2696 | |
| 20 | 4.5739 | 4.6643 | 4.7996 | 0.087187 | 4.5856 | 4.7134 | 4.8335 | 0.080697 | 0.0117 | 0.04913 | 0.1044 | 0.025556 |
| 30 | 4.6141 | 4.6712 | 4.7599 | 0.052284 | 4.6735 | 4.749 | 4.8102 | 0.04773 | 0.0105 | 0.07783 | 0.1734 | 0.04587 |
| 50 | 4.504 | 4.6918 | 4.8151 | 0.10432 | 4.6679 | 4.8322 | 4.9583 | 0.089156 | -0.0388 | 0.14037 | 0.3782 | 0.1124 |

Device Test: 36.16 I_OP_LS_IIM_1MHZ(_Iop LS VIN IIM Interlock 1MHz VIN_12V)

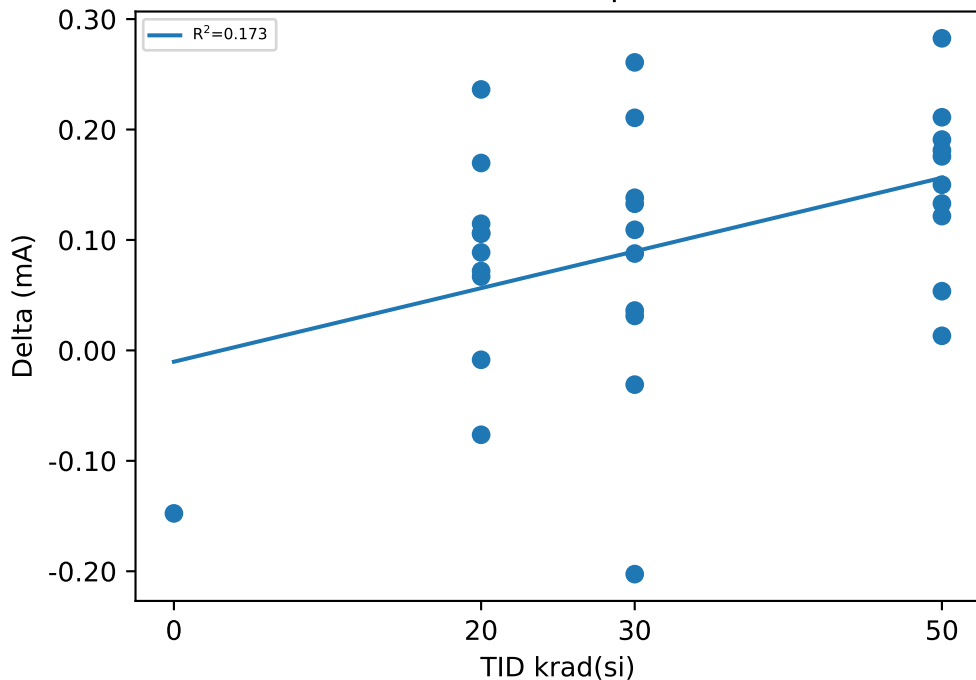
TID vs Result Stats



Test Results (Upper Limit = 12.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.5097 | 7.3621 | -0.1476 |
| 321 | 20 | HDR unbiased | 7.3959 | 7.5106 | 0.1147 |
| 322 | 20 | HDR unbiased | 7.2523 | 7.358 | 0.1057 |
| 323 | 20 | HDR unbiased | 7.2741 | 7.346 | 0.0719 |
| 324 | 20 | HDR unbiased | 7.2665 | 7.3333 | 0.0668 |
| 325 | 20 | HDR unbiased | 7.4195 | 7.411 | -0.0085 |
| 331 | 30 | HDR unbiased | 7.4777 | 7.5089 | 0.0312 |
| 332 | 30 | HDR unbiased | 7.3611 | 7.3972 | 0.0361 |
| 333 | 30 | HDR unbiased | 7.4584 | 7.5676 | 0.1092 |
| 334 | 30 | HDR unbiased | 7.41 | 7.4977 | 0.0877 |
| 335 | 30 | HDR unbiased | 7.3645 | 7.4973 | 0.1328 |
| 351 | 50 | HDR unbiased | 7.3641 | 7.3773 | 0.0132 |
| 352 | 50 | HDR unbiased | 7.2708 | 7.452 | 0.1812 |
| 353 | 50 | HDR unbiased | 7.22 | 7.5026 | 0.2826 |
| 354 | 50 | HDR unbiased | 7.2126 | 7.4237 | 0.2111 |
| 355 | 50 | HDR unbiased | 7.2888 | 7.3424 | 0.0536 |
| 521 | 20 | HDR biased | 7.5598 | 7.7295 | 0.1697 |
| 522 | 20 | HDR biased | 7.4713 | 7.56 | 0.0887 |
| 523 | 20 | HDR biased | 7.5099 | 7.6162 | 0.1063 |
| 524 | 20 | HDR biased | 7.616 | 7.5396 | -0.0764 |
| 525 | 20 | HDR biased | 7.4647 | 7.701 | 0.2363 |
| 531 | 30 | HDR biased | 7.3379 | 7.5485 | 0.2106 |
| 532 | 30 | HDR biased | 7.5383 | 7.3357 | -0.2026 |
| 533 | 30 | HDR biased | 7.2872 | 7.548 | 0.2608 |
| 534 | 30 | HDR biased | 7.3965 | 7.5347 | 0.1382 |
| 535 | 30 | HDR biased | 7.4521 | 7.4211 | -0.031 |
| 551 | 50 | HDR biased | 7.3727 | 7.5484 | 0.1757 |
| 552 | 50 | HDR biased | 7.5197 | 7.6413 | 0.1216 |
| 553 | 50 | HDR biased | 7.3469 | 7.5378 | 0.1909 |
| 554 | 50 | HDR biased | 7.4578 | 7.5908 | 0.133 |
| 555 | 50 | HDR biased | 7.3159 | 7.4659 | 0.15 |

TID vs Post - Pre Exposure Delta

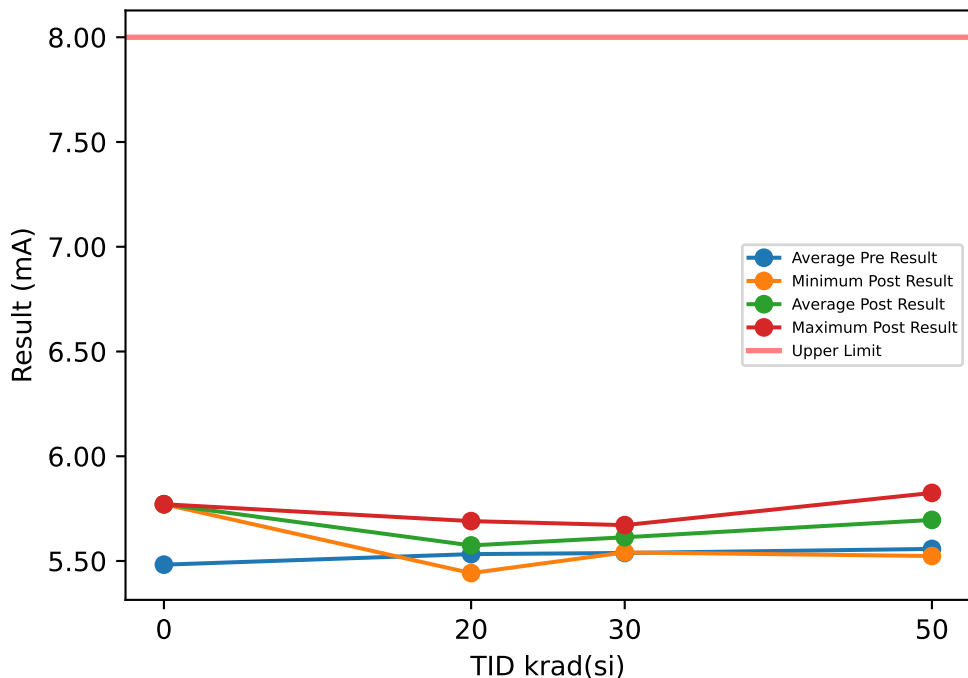


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.5097 | 7.5097 | 7.5097 | | 7.3621 | 7.3621 | 7.3621 | | -0.1476 | -0.1476 | -0.1476 | |
| 20 | 7.2523 | 7.423 | 7.616 | 0.12655 | 7.3333 | 7.5105 | 7.7295 | 0.14543 | -0.0764 | 0.08752 | 0.2363 | 0.08633 |
| 30 | 7.2872 | 7.4084 | 7.5383 | 0.074576 | 7.3357 | 7.4857 | 7.5676 | 0.076199 | -0.2026 | 0.0773 | 0.2608 | 0.13049 |
| 50 | 7.2126 | 7.3369 | 7.5197 | 0.097976 | 7.3424 | 7.4882 | 7.6413 | 0.094153 | 0.0132 | 0.15129 | 0.2826 | 0.077251 |

Device Test: 36.17 I_OP_HS_IIM_1MHZ(_Iop HS BOOT IIM Interlock 1MHz VIN_12V)

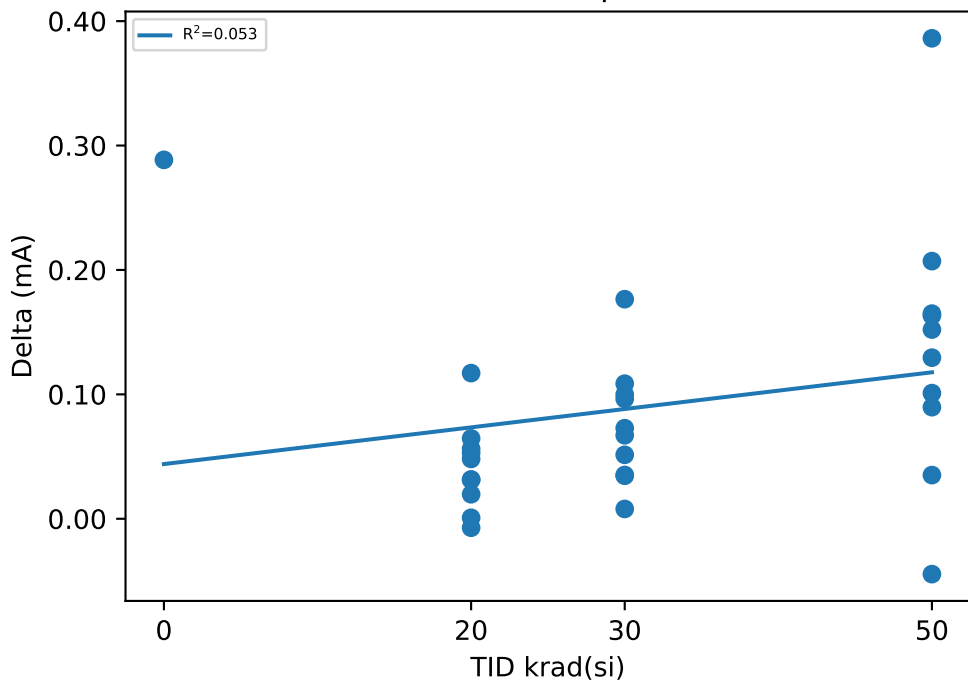
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.4825 | 5.771 | 0.2885 |
| 321 | 20 | HDR unbiased | 5.4495 | 5.4423 | -0.0072 |
| 322 | 20 | HDR unbiased | 5.6821 | 5.6829 | 0.0008 |
| 323 | 20 | HDR unbiased | 5.6591 | 5.6904 | 0.0313 |
| 324 | 20 | HDR unbiased | 5.5108 | 5.5671 | 0.0563 |
| 325 | 20 | HDR unbiased | 5.4433 | 5.5079 | 0.0646 |
| 331 | 30 | HDR unbiased | 5.4864 | 5.5828 | 0.0964 |
| 332 | 30 | HDR unbiased | 5.522 | 5.6306 | 0.1086 |
| 333 | 30 | HDR unbiased | 5.4761 | 5.5432 | 0.0671 |
| 334 | 30 | HDR unbiased | 5.6366 | 5.6712 | 0.0346 |
| 335 | 30 | HDR unbiased | 5.5306 | 5.6034 | 0.0728 |
| 351 | 50 | HDR unbiased | 5.4387 | 5.8249 | 0.3862 |
| 352 | 50 | HDR unbiased | 5.591 | 5.692 | 0.101 |
| 353 | 50 | HDR unbiased | 5.6905 | 5.646 | -0.0445 |
| 354 | 50 | HDR unbiased | 5.6251 | 5.6602 | 0.0351 |
| 355 | 50 | HDR unbiased | 5.5433 | 5.7504 | 0.2071 |
| 521 | 20 | HDR biased | 5.6183 | 5.638 | 0.0197 |
| 522 | 20 | HDR biased | 5.5597 | 5.6126 | 0.0529 |
| 523 | 20 | HDR biased | 5.4687 | 5.5168 | 0.0481 |
| 524 | 20 | HDR biased | 5.441 | 5.5581 | 0.1171 |
| 525 | 20 | HDR biased | 5.4955 | 5.5271 | 0.0316 |
| 531 | 30 | HDR biased | 5.5637 | 5.6151 | 0.0514 |
| 532 | 30 | HDR biased | 5.4689 | 5.6454 | 0.1765 |
| 533 | 30 | HDR biased | 5.5332 | 5.5411 | 0.0079 |
| 534 | 30 | HDR biased | 5.6314 | 5.6666 | 0.0352 |
| 535 | 30 | HDR biased | 5.5336 | 5.6335 | 0.0999 |
| 551 | 50 | HDR biased | 5.6647 | 5.7544 | 0.0897 |
| 552 | 50 | HDR biased | 5.5794 | 5.7315 | 0.1521 |
| 553 | 50 | HDR biased | 5.6417 | 5.7712 | 0.1295 |
| 554 | 50 | HDR biased | 5.4417 | 5.6066 | 0.1649 |
| 555 | 50 | HDR biased | 5.3604 | 5.5237 | 0.1633 |

TID vs Post - Pre Exposure Delta

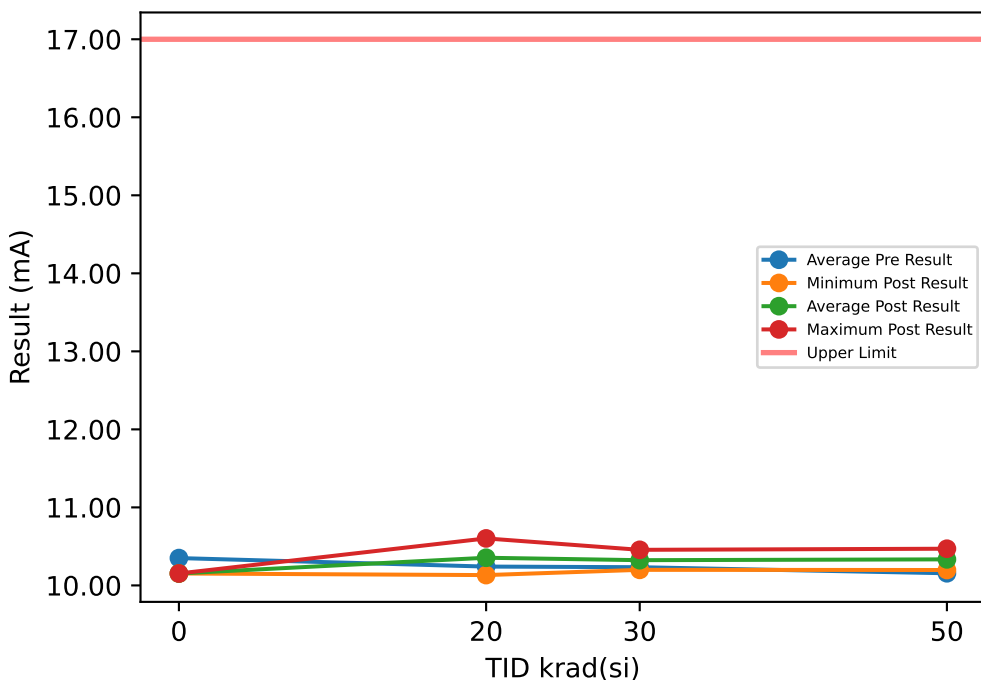


Test Statistics (mA)

| 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 | 5.4825 | 5.4825 | 5.4825 | | 5.771 | 5.771 | 5.771 | | 0.2885 | 0.2885 | 0.2885 | |
| 20 | 5.441 | 5.5328 | 5.6821 | 0.091674 | 5.4423 | 5.5743 | 5.6904 | 0.080608 | -0.0072 | 0.04152 | 0.1171 | 0.035507 |
| 30 | 5.4689 | 5.5382 | 5.6366 | 0.058431 | 5.5411 | 5.6133 | 5.6712 | 0.046055 | 0.0079 | 0.07504 | 0.1765 | 0.048134 |
| 50 | 5.3604 | 5.5577 | 5.6905 | 0.11006 | 5.5237 | 5.6961 | 5.8249 | 0.089055 | -0.0445 | 0.13844 | 0.3862 | 0.11334 |

Device Test: 36.18 I_OP_LS_IIM_2MHZ(_Iop LS VIN IIM Interlock 2MHz VIN_12V)

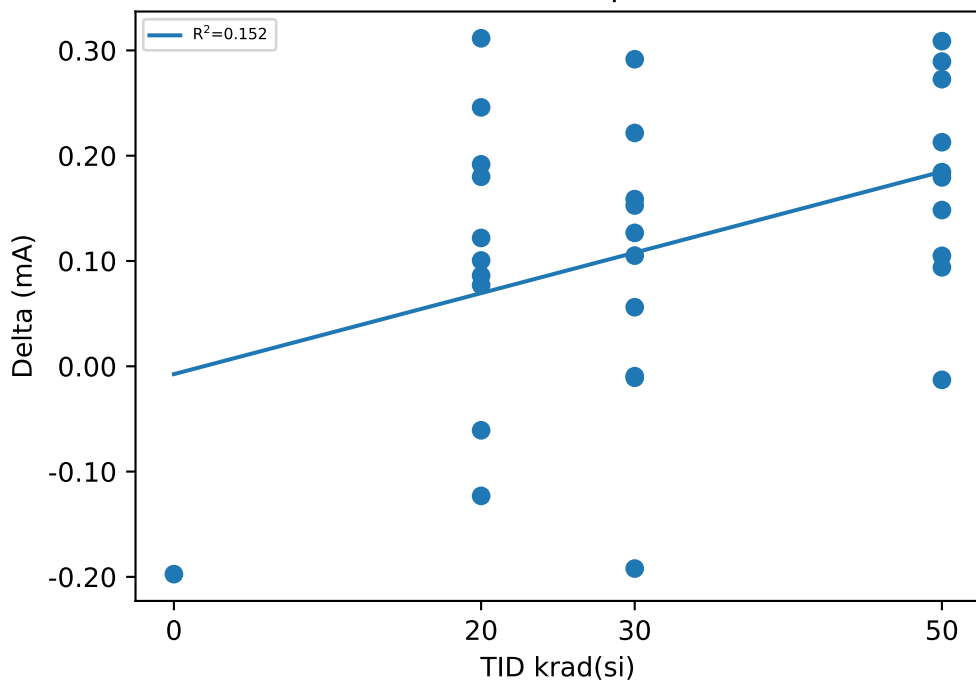
TID vs Result Stats



Test Results (Upper Limit = 17.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.35 | 10.153 | -0.1974 |
| 321 | 20 | HDR unbiased | 10.203 | 10.394 | 0.1918 |
| 322 | 20 | HDR unbiased | 10.056 | 10.236 | 0.18 |
| 323 | 20 | HDR unbiased | 10.134 | 10.22 | 0.0861 |
| 324 | 20 | HDR unbiased | 10.055 | 10.132 | 0.0771 |
| 325 | 20 | HDR unbiased | 10.273 | 10.212 | -0.0608 |
| 331 | 30 | HDR unbiased | 10.335 | 10.324 | -0.0109 |
| 332 | 30 | HDR unbiased | 10.218 | 10.208 | -0.0094 |
| 333 | 30 | HDR unbiased | 10.329 | 10.456 | 0.1267 |
| 334 | 30 | HDR unbiased | 10.208 | 10.313 | 0.1051 |
| 335 | 30 | HDR unbiased | 10.164 | 10.317 | 0.1527 |
| 351 | 50 | HDR unbiased | 10.21 | 10.197 | -0.0129 |
| 352 | 50 | HDR unbiased | 10.052 | 10.325 | 0.2727 |
| 353 | 50 | HDR unbiased | 10.007 | 10.316 | 0.3088 |
| 354 | 50 | HDR unbiased | 10.066 | 10.245 | 0.1794 |
| 355 | 50 | HDR unbiased | 10.079 | 10.227 | 0.1484 |
| 521 | 20 | HDR biased | 10.357 | 10.602 | 0.2459 |
| 522 | 20 | HDR biased | 10.265 | 10.365 | 0.1005 |
| 523 | 20 | HDR biased | 10.361 | 10.482 | 0.1219 |
| 524 | 20 | HDR biased | 10.462 | 10.339 | -0.1231 |
| 525 | 20 | HDR biased | 10.251 | 10.562 | 0.3115 |
| 531 | 30 | HDR biased | 10.193 | 10.352 | 0.1588 |
| 532 | 30 | HDR biased | 10.392 | 10.2 | -0.1921 |
| 533 | 30 | HDR biased | 10.066 | 10.357 | 0.2916 |
| 534 | 30 | HDR biased | 10.19 | 10.412 | 0.2216 |
| 535 | 30 | HDR biased | 10.239 | 10.295 | 0.0561 |
| 551 | 50 | HDR biased | 10.163 | 10.376 | 0.2128 |
| 552 | 50 | HDR biased | 10.376 | 10.47 | 0.094 |
| 553 | 50 | HDR biased | 10.135 | 10.424 | 0.2894 |
| 554 | 50 | HDR biased | 10.308 | 10.413 | 0.1049 |
| 555 | 50 | HDR biased | 10.161 | 10.345 | 0.1844 |

TID vs Post - Pre Exposure Delta

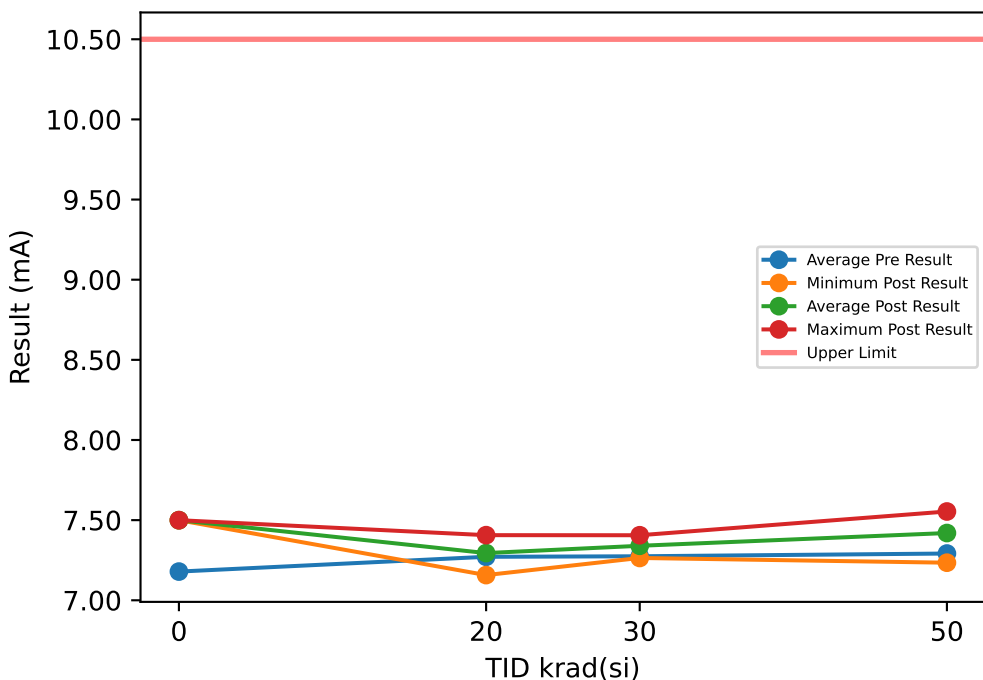


Test Statistics (mA)

| 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 | 10.35 | 10.35 | 10.35 | | 10.153 | 10.153 | 10.153 | | -0.1974 | -0.1974 | -0.1974 | |
| 20 | 10.055 | 10.242 | 10.462 | 0.13324 | 10.132 | 10.355 | 10.602 | 0.15807 | -0.1231 | 0.11309 | 0.3115 | 0.13164 |
| 30 | 10.066 | 10.233 | 10.392 | 0.095315 | 10.2 | 10.323 | 10.456 | 0.079553 | -0.1921 | 0.09002 | 0.2916 | 0.13703 |
| 50 | 10.007 | 10.156 | 10.376 | 0.11644 | 10.197 | 10.334 | 10.47 | 0.090105 | -0.0129 | 0.17819 | 0.3088 | 0.099699 |

Device Test: 36.19 I_OP_HS_IIM_2MHZ(_Iop HS BOOT IIM Interlock 2MHz VIN_12V)

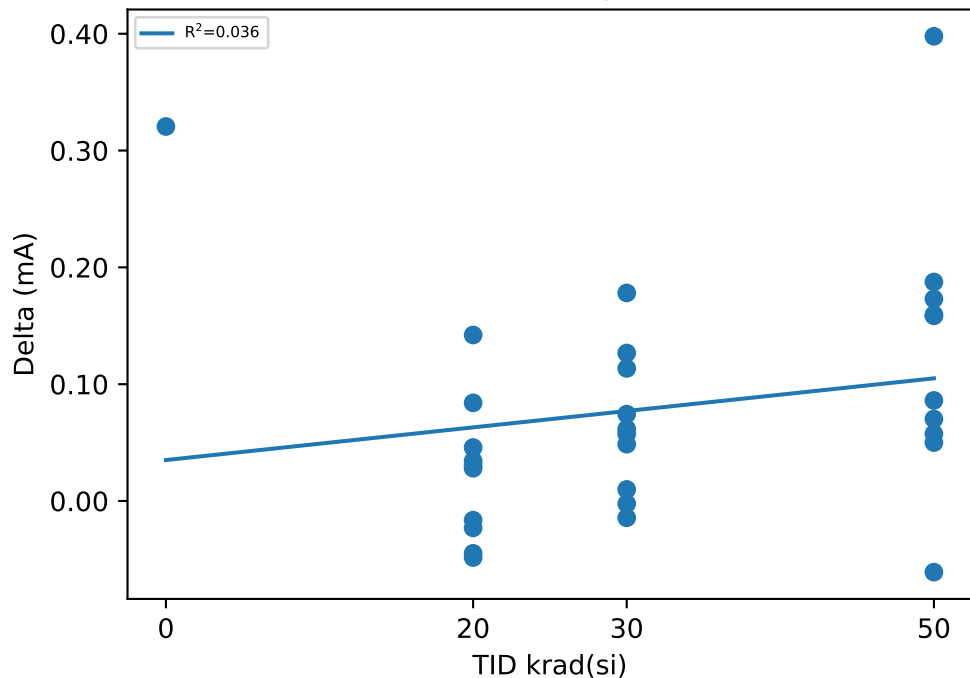
TID vs Result Stats



Test Results (Upper Limit = 10.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.1791 | 7.4997 | 0.3206 |
| 321 | 20 | HDR unbiased | 7.2056 | 7.1572 | -0.0484 |
| 322 | 20 | HDR unbiased | 7.4511 | 7.4063 | -0.0448 |
| 323 | 20 | HDR unbiased | 7.3736 | 7.4016 | 0.028 |
| 324 | 20 | HDR unbiased | 7.2748 | 7.3091 | 0.0343 |
| 325 | 20 | HDR unbiased | 7.1549 | 7.2389 | 0.084 |
| 331 | 30 | HDR unbiased | 7.1988 | 7.3123 | 0.1135 |
| 332 | 30 | HDR unbiased | 7.2458 | 7.3725 | 0.1267 |
| 333 | 30 | HDR unbiased | 7.2023 | 7.264 | 0.0617 |
| 334 | 30 | HDR unbiased | 7.3959 | 7.4058 | 0.0099 |
| 335 | 30 | HDR unbiased | 7.287 | 7.3356 | 0.0486 |
| 351 | 50 | HDR unbiased | 7.1561 | 7.5539 | 0.3978 |
| 352 | 50 | HDR unbiased | 7.3487 | 7.3987 | 0.05 |
| 353 | 50 | HDR unbiased | 7.442 | 7.3811 | -0.0609 |
| 354 | 50 | HDR unbiased | 7.3408 | 7.3983 | 0.0575 |
| 355 | 50 | HDR unbiased | 7.304 | 7.4625 | 0.1585 |
| 521 | 20 | HDR biased | 7.3643 | 7.3413 | -0.023 |
| 522 | 20 | HDR biased | 7.3159 | 7.3464 | 0.0305 |
| 523 | 20 | HDR biased | 7.1781 | 7.2239 | 0.0458 |
| 524 | 20 | HDR biased | 7.1464 | 7.2885 | 0.1421 |
| 525 | 20 | HDR biased | 7.2482 | 7.2318 | -0.0164 |
| 531 | 30 | HDR biased | 7.2781 | 7.3525 | 0.0744 |
| 532 | 30 | HDR biased | 7.1794 | 7.3575 | 0.1781 |
| 533 | 30 | HDR biased | 7.2765 | 7.2742 | -0.0023 |
| 534 | 30 | HDR biased | 7.3915 | 7.3771 | -0.0144 |
| 535 | 30 | HDR biased | 7.2907 | 7.3481 | 0.0574 |
| 551 | 50 | HDR biased | 7.4161 | 7.4863 | 0.0702 |
| 552 | 50 | HDR biased | 7.289 | 7.462 | 0.173 |
| 553 | 50 | HDR biased | 7.3932 | 7.4793 | 0.0861 |
| 554 | 50 | HDR biased | 7.1518 | 7.3393 | 0.1875 |
| 555 | 50 | HDR biased | 7.075 | 7.2345 | 0.1595 |

TID vs Post - Pre Exposure Delta

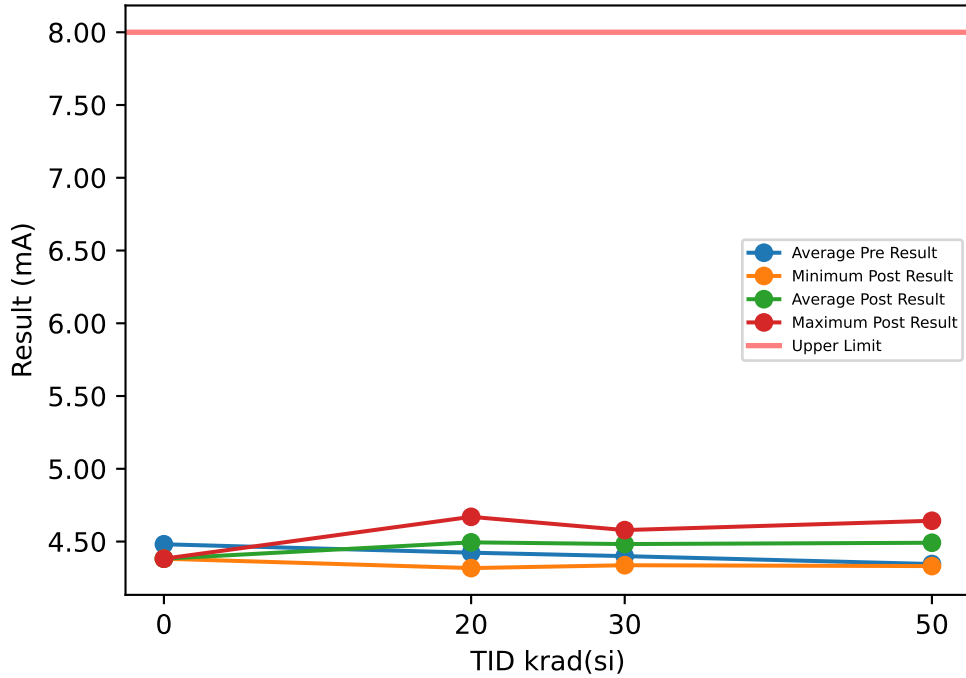


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.1791 | 7.1791 | 7.1791 | | 7.4997 | 7.4997 | 7.4997 | | 0.3206 | 0.3206 | 0.3206 | |
| 20 | 7.1464 | 7.2713 | 7.4511 | 0.10335 | 7.1572 | 7.2945 | 7.4063 | 0.081623 | -0.0484 | 0.02321 | 0.1421 | 0.059626 |
| 30 | 7.1794 | 7.2746 | 7.3959 | 0.074292 | 7.264 | 7.34 | 7.4058 | 0.044948 | -0.0144 | 0.06536 | 0.1781 | 0.060777 |
| 50 | 7.075 | 7.2917 | 7.442 | 0.12432 | 7.2345 | 7.4196 | 7.5539 | 0.08992 | -0.0609 | 0.12792 | 0.3978 | 0.12116 |

Device Test: 36.2 IQ_LS_IIM(Iq LS VIN IIM Interlock VIN_12V)

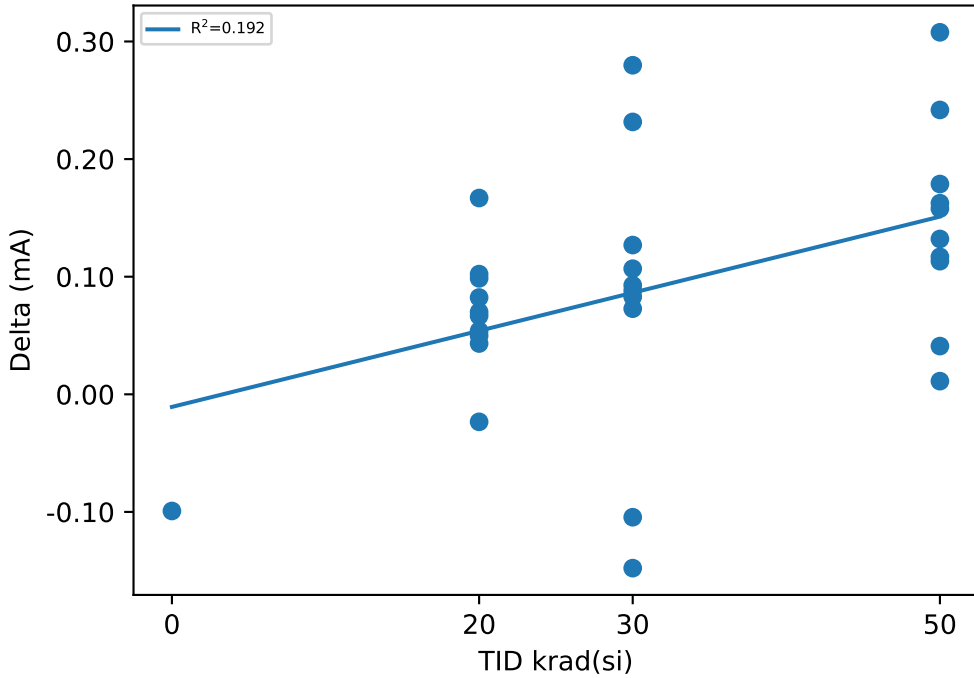
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.4813 | 4.3821 | -0.0992 |
| 321 | 20 | HDR unbiased | 4.4183 | 4.4723 | 0.054 |
| 322 | 20 | HDR unbiased | 4.2744 | 4.3176 | 0.0432 |
| 323 | 20 | HDR unbiased | 4.2499 | 4.3199 | 0.07 |
| 324 | 20 | HDR unbiased | 4.3282 | 4.3949 | 0.0667 |
| 325 | 20 | HDR unbiased | 4.3727 | 4.4225 | 0.0498 |
| 331 | 30 | HDR unbiased | 4.434 | 4.5221 | 0.0881 |
| 332 | 30 | HDR unbiased | 4.3021 | 4.3948 | 0.0927 |
| 333 | 30 | HDR unbiased | 4.4341 | 4.5409 | 0.1068 |
| 334 | 30 | HDR unbiased | 4.4326 | 4.5155 | 0.0829 |
| 335 | 30 | HDR unbiased | 4.392 | 4.5189 | 0.1269 |
| 351 | 50 | HDR unbiased | 4.3568 | 4.3978 | 0.041 |
| 352 | 50 | HDR unbiased | 4.3314 | 4.4483 | 0.1169 |
| 353 | 50 | HDR unbiased | 4.2456 | 4.5534 | 0.3078 |
| 354 | 50 | HDR unbiased | 4.2091 | 4.4509 | 0.2418 |
| 355 | 50 | HDR unbiased | 4.3201 | 4.3313 | 0.0112 |
| 521 | 20 | HDR biased | 4.5676 | 4.6698 | 0.1022 |
| 522 | 20 | HDR biased | 4.4924 | 4.5747 | 0.0823 |
| 523 | 20 | HDR biased | 4.4565 | 4.5551 | 0.0986 |
| 524 | 20 | HDR biased | 4.5823 | 4.5589 | -0.0234 |
| 525 | 20 | HDR biased | 4.4921 | 4.659 | 0.1669 |
| 531 | 30 | HDR biased | 4.2989 | 4.5787 | 0.2798 |
| 532 | 30 | HDR biased | 4.485 | 4.3372 | -0.1478 |
| 533 | 30 | HDR biased | 4.3203 | 4.5519 | 0.2316 |
| 534 | 30 | HDR biased | 4.4158 | 4.4886 | 0.0728 |
| 535 | 30 | HDR biased | 4.4835 | 4.379 | -0.1045 |
| 551 | 50 | HDR biased | 4.3815 | 4.5394 | 0.1579 |
| 552 | 50 | HDR biased | 4.4803 | 4.6428 | 0.1625 |
| 553 | 50 | HDR biased | 4.3788 | 4.492 | 0.1132 |
| 554 | 50 | HDR biased | 4.4381 | 4.6169 | 0.1788 |
| 555 | 50 | HDR biased | 4.312 | 4.4441 | 0.1321 |

TID vs Post - Pre Exposure Delta

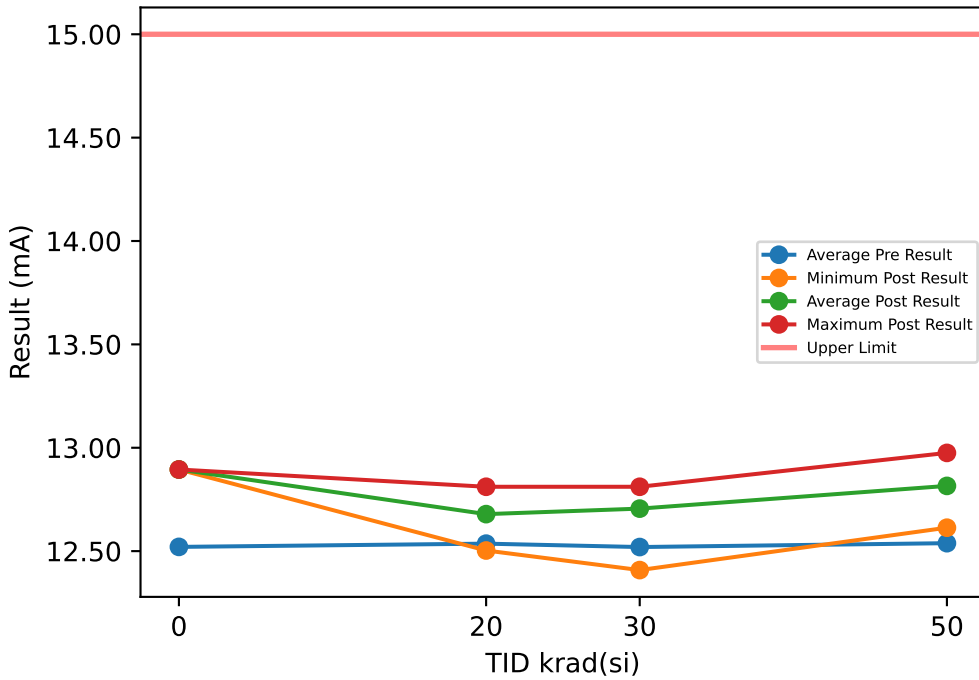


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.4813 | 4.4813 | 4.4813 | | 4.3821 | 4.3821 | 4.3821 | | -0.0992 | -0.0992 | -0.0992 | |
| 20 | 4.2499 | 4.4234 | 4.5823 | 0.11575 | 4.3176 | 4.4945 | 4.6698 | 0.12885 | -0.0234 | 0.07103 | 0.1669 | 0.048878 |
| 30 | 4.2989 | 4.3998 | 4.485 | 0.06996 | 4.3372 | 4.4828 | 4.5787 | 0.082338 | -0.1478 | 0.08293 | 0.2798 | 0.12994 |
| 50 | 4.2091 | 4.3454 | 4.4803 | 0.081533 | 4.3313 | 4.4917 | 4.6428 | 0.097153 | 0.0112 | 0.14632 | 0.3078 | 0.087023 |

Device Test: 36.21 I_OP_HS_IIM_5MHZ(_Iop HS BOOT IIM Interlock 5MHz VIN_12V)

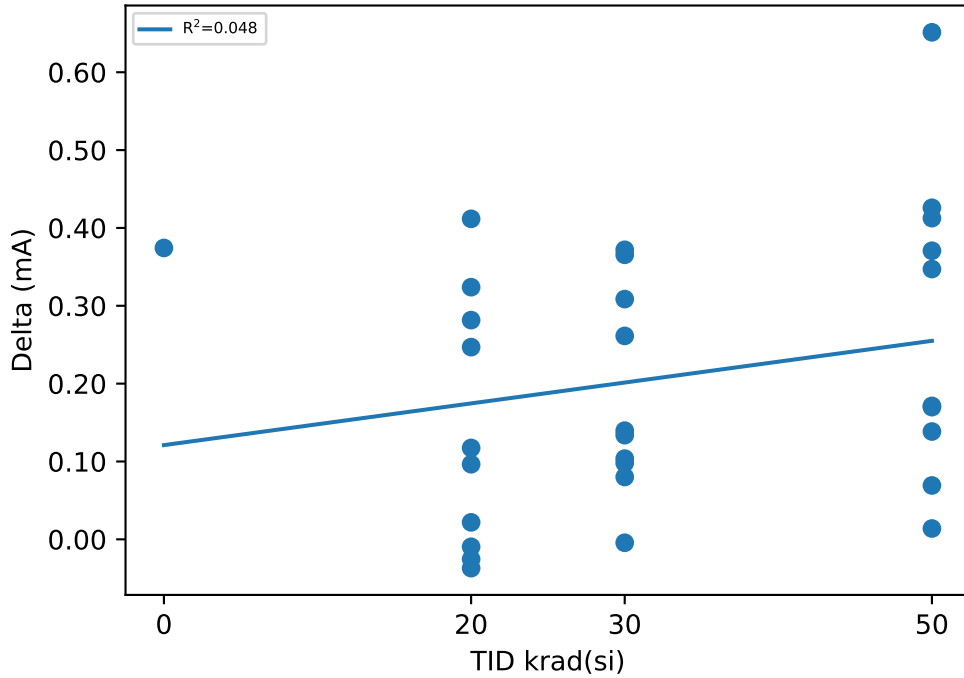
TID vs Result Stats



Test Results (Upper Limit = 15.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 12.521 | 12.895 | 0.3743 |
| 321 | 20 | HDR unbiased | 12.513 | 12.503 | -0.0096 |
| 322 | 20 | HDR unbiased | 12.837 | 12.811 | -0.0254 |
| 323 | 20 | HDR unbiased | 12.538 | 12.784 | 0.2469 |
| 324 | 20 | HDR unbiased | 12.646 | 12.743 | 0.0965 |
| 325 | 20 | HDR unbiased | 12.335 | 12.659 | 0.3239 |
| 331 | 30 | HDR unbiased | 12.346 | 12.711 | 0.3655 |
| 332 | 30 | HDR unbiased | 12.439 | 12.811 | 0.3719 |
| 333 | 30 | HDR unbiased | 12.362 | 12.623 | 0.2613 |
| 334 | 30 | HDR unbiased | 12.711 | 12.809 | 0.0981 |
| 335 | 30 | HDR unbiased | 12.687 | 12.767 | 0.0801 |
| 351 | 50 | HDR unbiased | 12.324 | 12.975 | 0.6513 |
| 352 | 50 | HDR unbiased | 12.694 | 12.763 | 0.0692 |
| 353 | 50 | HDR unbiased | 12.772 | 12.786 | 0.0139 |
| 354 | 50 | HDR unbiased | 12.499 | 12.847 | 0.3472 |
| 355 | 50 | HDR unbiased | 12.681 | 12.85 | 0.1698 |
| 521 | 20 | HDR biased | 12.697 | 12.719 | 0.0218 |
| 522 | 20 | HDR biased | 12.645 | 12.762 | 0.1174 |
| 523 | 20 | HDR biased | 12.286 | 12.568 | 0.2816 |
| 524 | 20 | HDR biased | 12.275 | 12.687 | 0.4117 |
| 525 | 20 | HDR biased | 12.591 | 12.553 | -0.037 |
| 531 | 30 | HDR biased | 12.467 | 12.775 | 0.3086 |
| 532 | 30 | HDR biased | 12.305 | 12.408 | 0.1037 |
| 533 | 30 | HDR biased | 12.538 | 12.678 | 0.1396 |
| 534 | 30 | HDR biased | 12.726 | 12.722 | -0.0044 |
| 535 | 30 | HDR biased | 12.617 | 12.751 | 0.1338 |
| 551 | 50 | HDR biased | 12.715 | 12.886 | 0.1714 |
| 552 | 50 | HDR biased | 12.428 | 12.854 | 0.4259 |
| 553 | 50 | HDR biased | 12.689 | 12.828 | 0.1385 |
| 554 | 50 | HDR biased | 12.34 | 12.753 | 0.4126 |
| 555 | 50 | HDR biased | 12.243 | 12.613 | 0.3707 |

TID vs Post - Pre Exposure Delta

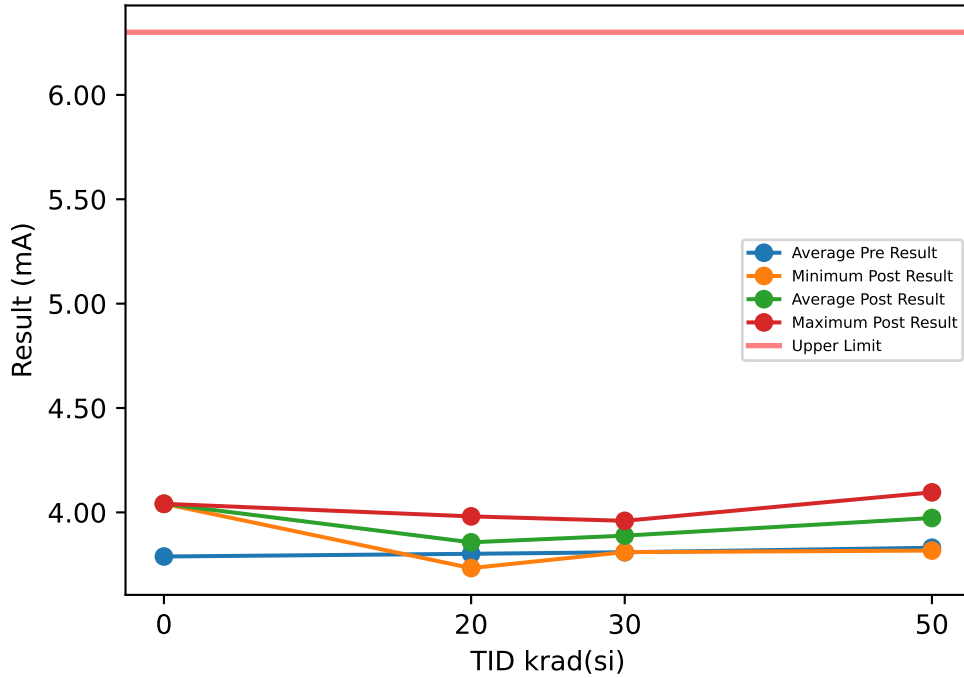


Test Statistics (mA)

| 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 | 12.521 | 12.521 | 12.521 | | 12.895 | 12.895 | 12.895 | | 0.3743 | 0.3743 | 0.3743 | |
| 20 | 12.275 | 12.536 | 12.837 | 0.18712 | 12.503 | 12.679 | 12.811 | 0.10584 | -0.037 | 0.14278 | 0.4117 | 0.1621 |
| 30 | 12.305 | 12.52 | 12.726 | 0.15914 | 12.408 | 12.706 | 12.811 | 0.11967 | -0.0044 | 0.18582 | 0.3719 | 0.13095 |
| 50 | 12.243 | 12.538 | 12.772 | 0.19414 | 12.613 | 12.815 | 12.975 | 0.095938 | 0.0139 | 0.27705 | 0.6513 | 0.19681 |

Device Test: 36.3 IQ_HS_IIM(Iq HS BOOT IIM Interlock VIN_12V)

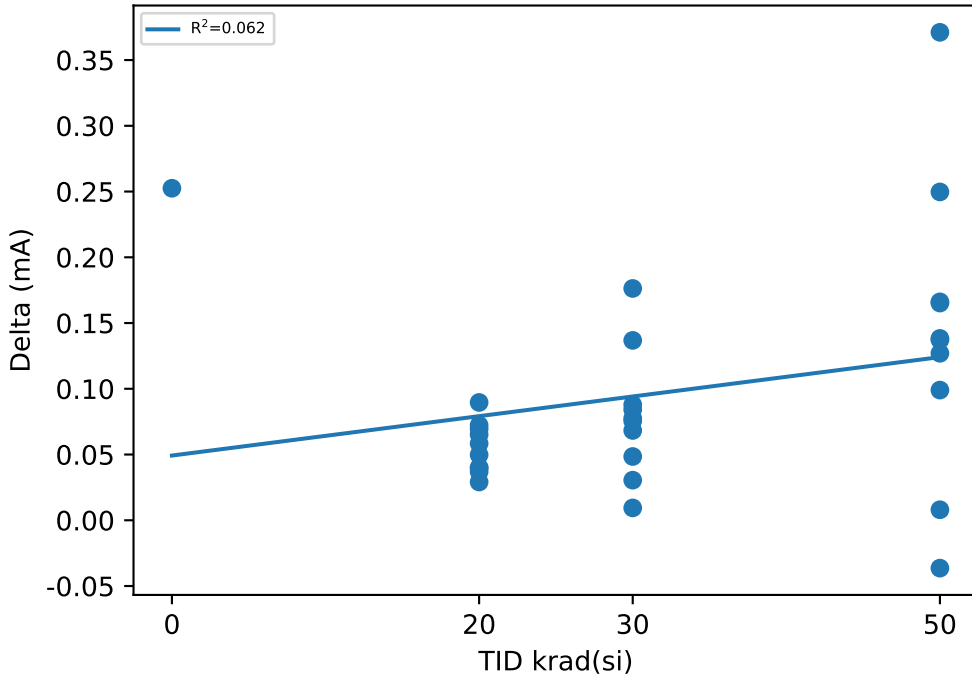
TID vs Result Stats



Test Results (Upper Limit = 6.3 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.7887 | 4.0412 | 0.2525 |
| 321 | 20 | HDR unbiased | 3.7041 | 3.7332 | 0.0291 |
| 322 | 20 | HDR unbiased | 3.9229 | 3.9626 | 0.0397 |
| 323 | 20 | HDR unbiased | 3.944 | 3.9809 | 0.0369 |
| 324 | 20 | HDR unbiased | 3.7571 | 3.8265 | 0.0694 |
| 325 | 20 | HDR unbiased | 3.7362 | 3.7764 | 0.0402 |
| 331 | 30 | HDR unbiased | 3.7773 | 3.8528 | 0.0755 |
| 332 | 30 | HDR unbiased | 3.8031 | 3.8873 | 0.0842 |
| 333 | 30 | HDR unbiased | 3.7573 | 3.8256 | 0.0683 |
| 334 | 30 | HDR unbiased | 3.8898 | 3.9383 | 0.0485 |
| 335 | 30 | HDR unbiased | 3.7835 | 3.8714 | 0.0879 |
| 351 | 50 | HDR unbiased | 3.7249 | 4.096 | 0.3711 |
| 352 | 50 | HDR unbiased | 3.845 | 3.9833 | 0.1383 |
| 353 | 50 | HDR unbiased | 3.947 | 3.9106 | -0.0364 |
| 354 | 50 | HDR unbiased | 3.9128 | 3.9208 | 0.008 |
| 355 | 50 | HDR unbiased | 3.7909 | 4.0406 | 0.2497 |
| 521 | 20 | HDR biased | 3.8804 | 3.9388 | 0.0584 |
| 522 | 20 | HDR biased | 3.8149 | 3.8801 | 0.0652 |
| 523 | 20 | HDR biased | 3.7643 | 3.8141 | 0.0498 |
| 524 | 20 | HDR biased | 3.7378 | 3.8274 | 0.0896 |
| 525 | 20 | HDR biased | 3.7547 | 3.827 | 0.0723 |
| 531 | 30 | HDR biased | 3.8502 | 3.8807 | 0.0305 |
| 532 | 30 | HDR biased | 3.7626 | 3.9389 | 0.1763 |
| 533 | 30 | HDR biased | 3.8002 | 3.8096 | 0.0094 |
| 534 | 30 | HDR biased | 3.882 | 3.9596 | 0.0776 |
| 535 | 30 | HDR biased | 3.7853 | 3.9221 | 0.1368 |
| 551 | 50 | HDR biased | 3.9244 | 4.0234 | 0.099 |
| 552 | 50 | HDR biased | 3.8725 | 3.9995 | 0.127 |
| 553 | 50 | HDR biased | 3.9007 | 4.0668 | 0.1661 |
| 554 | 50 | HDR biased | 3.7355 | 3.8727 | 0.1372 |
| 555 | 50 | HDR biased | 3.6519 | 3.8171 | 0.1652 |

TID vs Post - Pre Exposure Delta

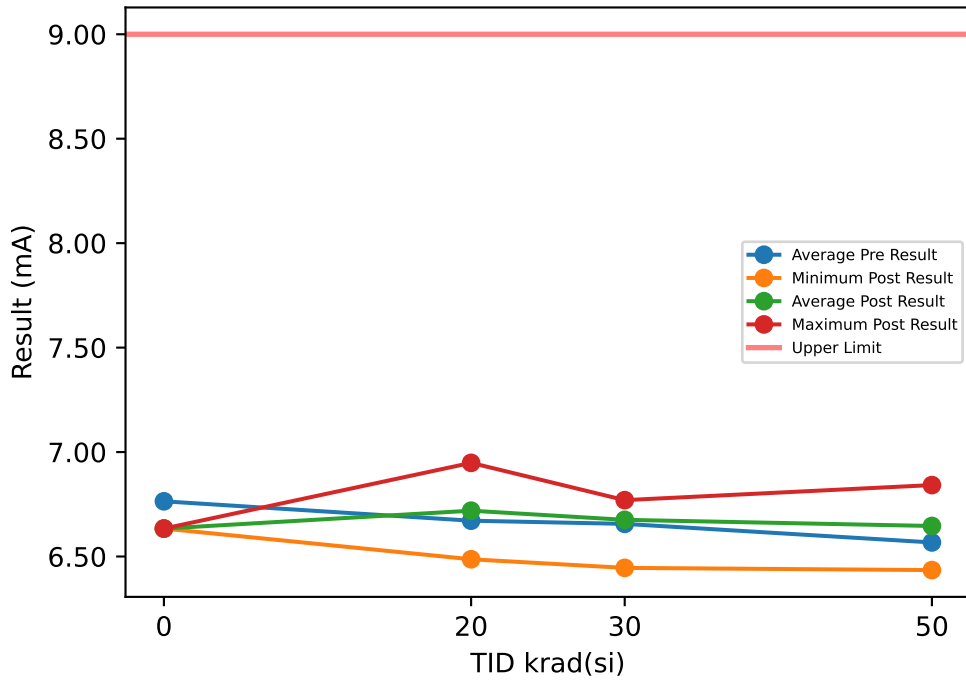


Test Statistics (mA)

| 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 | 3.7887 | 3.7887 | 3.7887 | | 4.0412 | 4.0412 | 4.0412 | | 0.2525 | 0.2525 | 0.2525 | |
| 20 | 3.7041 | 3.8016 | 3.944 | 0.084855 | 3.7332 | 3.8567 | 3.9809 | 0.081715 | 0.0291 | 0.05506 | 0.0896 | 0.019143 |
| 30 | 3.7573 | 3.8091 | 3.8898 | 0.04797 | 3.8096 | 3.8886 | 3.9596 | 0.050569 | 0.0094 | 0.0795 | 0.1763 | 0.048497 |
| 50 | 3.6519 | 3.8306 | 3.947 | 0.099837 | 3.8171 | 3.9731 | 4.096 | 0.089956 | -0.0364 | 0.14252 | 0.3711 | 0.11406 |

Device Test: 36.6 I_OP_LS_PWM_500KHZ(_lop LS VIN PWM 500kHz VIN_12V)

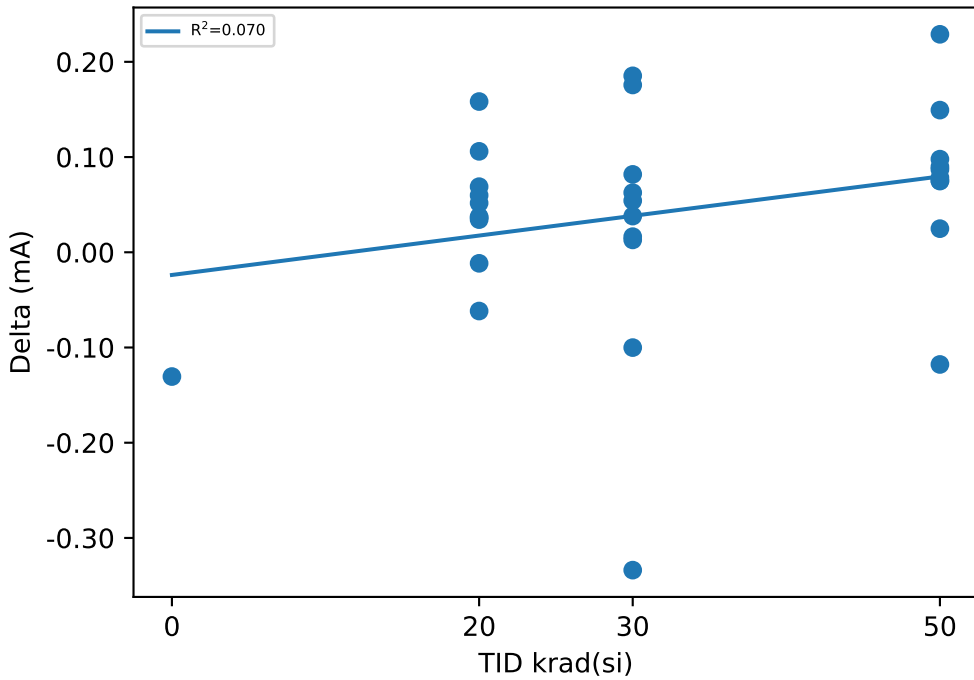
TID vs Result Stats



Test Results (Upper Limit = 9.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.7642 | 6.6337 | -0.1305 |
| 321 | 20 | HDR unbiased | 6.6325 | 6.6842 | 0.0517 |
| 322 | 20 | HDR unbiased | 6.4872 | 6.5246 | 0.0374 |
| 323 | 20 | HDR unbiased | 6.4745 | 6.5088 | 0.0343 |
| 324 | 20 | HDR unbiased | 6.4504 | 6.4868 | 0.0364 |
| 325 | 20 | HDR unbiased | 6.6803 | 6.6687 | -0.0116 |
| 331 | 30 | HDR unbiased | 6.6989 | 6.7119 | 0.013 |
| 332 | 30 | HDR unbiased | 6.6302 | 6.6466 | 0.0164 |
| 333 | 30 | HDR unbiased | 6.6142 | 6.6768 | 0.0626 |
| 334 | 30 | HDR unbiased | 6.6556 | 6.6936 | 0.038 |
| 335 | 30 | HDR unbiased | 6.5978 | 6.6796 | 0.0818 |
| 351 | 50 | HDR unbiased | 6.5382 | 6.563 | 0.0248 |
| 352 | 50 | HDR unbiased | 6.4808 | 6.5556 | 0.0748 |
| 353 | 50 | HDR unbiased | 6.4845 | 6.6338 | 0.1493 |
| 354 | 50 | HDR unbiased | 6.3797 | 6.6086 | 0.2289 |
| 355 | 50 | HDR unbiased | 6.5528 | 6.435 | -0.1178 |
| 521 | 20 | HDR biased | 6.8423 | 6.9483 | 0.106 |
| 522 | 20 | HDR biased | 6.7399 | 6.7997 | 0.0598 |
| 523 | 20 | HDR biased | 6.7868 | 6.8557 | 0.0689 |
| 524 | 20 | HDR biased | 6.8632 | 6.8015 | -0.0617 |
| 525 | 20 | HDR biased | 6.757 | 6.9153 | 0.1583 |
| 531 | 30 | HDR biased | 6.5845 | 6.7698 | 0.1853 |
| 532 | 30 | HDR biased | 6.7794 | 6.4456 | -0.3338 |
| 533 | 30 | HDR biased | 6.5932 | 6.7689 | 0.1757 |
| 534 | 30 | HDR biased | 6.6869 | 6.7411 | 0.0542 |
| 535 | 30 | HDR biased | 6.7217 | 6.6216 | -0.1001 |
| 551 | 50 | HDR biased | 6.6723 | 6.7701 | 0.0978 |
| 552 | 50 | HDR biased | 6.7668 | 6.8419 | 0.0751 |
| 553 | 50 | HDR biased | 6.6057 | 6.6927 | 0.087 |
| 554 | 50 | HDR biased | 6.6751 | 6.7649 | 0.0898 |
| 555 | 50 | HDR biased | 6.5176 | 6.596 | 0.0784 |

TID vs Post - Pre Exposure Delta

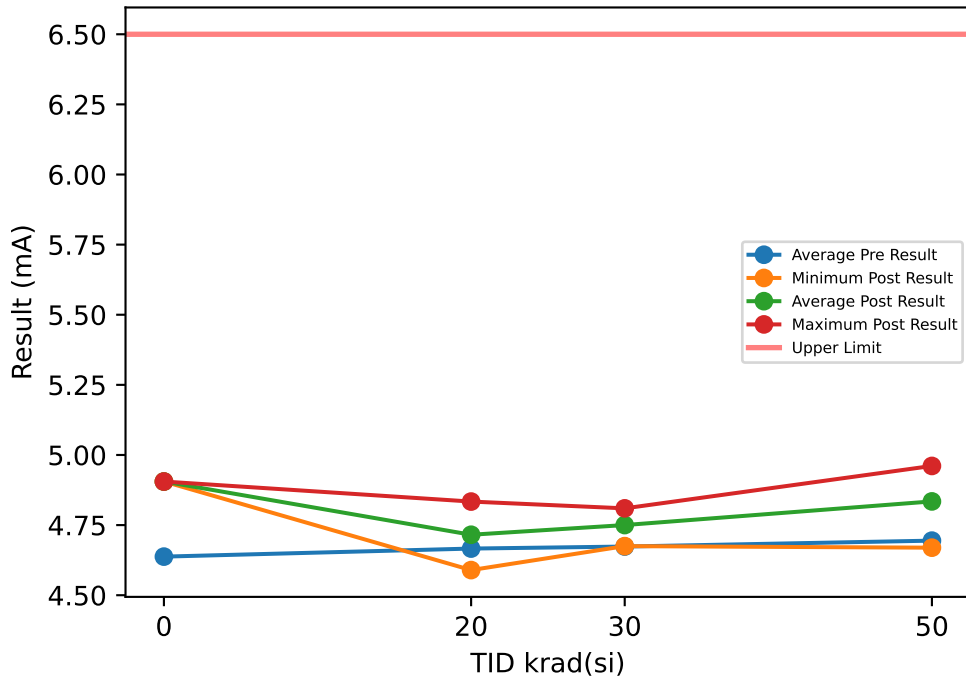


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.7642 | 6.7642 | 6.7642 | | 6.6337 | 6.6337 | 6.6337 | | -0.1305 | -0.1305 | -0.1305 | |
| 20 | 6.4504 | 6.6714 | 6.8632 | 0.15437 | 6.4868 | 6.7194 | 6.9483 | 0.17086 | -0.0617 | 0.04795 | 0.1583 | 0.059759 |
| 30 | 6.5845 | 6.6562 | 6.7794 | 0.064287 | 6.4456 | 6.6755 | 6.7698 | 0.09439 | -0.3338 | 0.01931 | 0.1853 | 0.14845 |
| 50 | 6.3797 | 6.5674 | 6.7668 | 0.11401 | 6.435 | 6.6462 | 6.8419 | 0.12189 | -0.1178 | 0.07881 | 0.2289 | 0.087969 |

Device Test: 36.7 I_OP_HS_PWM_500KHZ(_Iop HS BOOT PWM 500kHz VIN_12V)

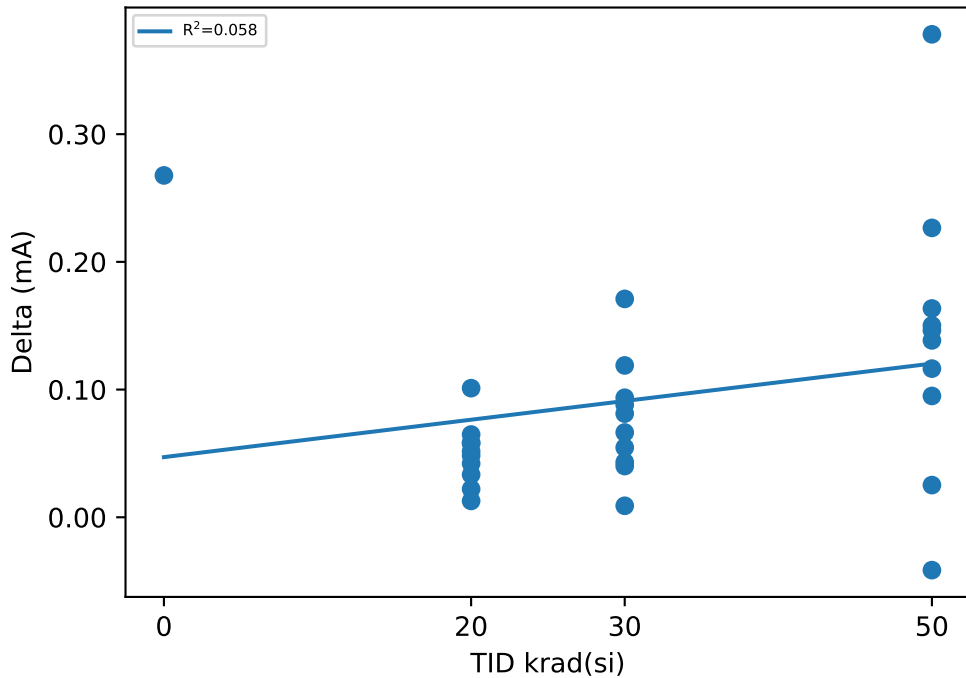
TID vs Result Stats



Test Results (Upper Limit = 6.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.6376 | 4.9053 | 0.2677 |
| 321 | 20 | HDR unbiased | 4.5768 | 4.5896 | 0.0128 |
| 322 | 20 | HDR unbiased | 4.7992 | 4.8213 | 0.0221 |
| 323 | 20 | HDR unbiased | 4.8005 | 4.8339 | 0.0334 |
| 324 | 20 | HDR unbiased | 4.6295 | 4.6943 | 0.0648 |
| 325 | 20 | HDR unbiased | 4.5912 | 4.6428 | 0.0516 |
| 331 | 30 | HDR unbiased | 4.6316 | 4.7197 | 0.0881 |
| 332 | 30 | HDR unbiased | 4.6655 | 4.7591 | 0.0936 |
| 333 | 30 | HDR unbiased | 4.6182 | 4.6846 | 0.0664 |
| 334 | 30 | HDR unbiased | 4.7611 | 4.8043 | 0.0432 |
| 335 | 30 | HDR unbiased | 4.6551 | 4.7363 | 0.0812 |
| 351 | 50 | HDR unbiased | 4.5827 | 4.9609 | 0.3782 |
| 352 | 50 | HDR unbiased | 4.7207 | 4.8371 | 0.1164 |
| 353 | 50 | HDR unbiased | 4.8191 | 4.7777 | -0.0414 |
| 354 | 50 | HDR unbiased | 4.7668 | 4.792 | 0.0252 |
| 355 | 50 | HDR unbiased | 4.6688 | 4.8954 | 0.2266 |
| 521 | 20 | HDR biased | 4.7483 | 4.7904 | 0.0421 |
| 522 | 20 | HDR biased | 4.6867 | 4.7453 | 0.0586 |
| 523 | 20 | HDR biased | 4.6186 | 4.6669 | 0.0483 |
| 524 | 20 | HDR biased | 4.5907 | 4.6918 | 0.1011 |
| 525 | 20 | HDR biased | 4.6217 | 4.6794 | 0.0577 |
| 531 | 30 | HDR biased | 4.7068 | 4.7469 | 0.0401 |
| 532 | 30 | HDR biased | 4.6173 | 4.7883 | 0.171 |
| 533 | 30 | HDR biased | 4.666 | 4.675 | 0.009 |
| 534 | 30 | HDR biased | 4.7551 | 4.8097 | 0.0546 |
| 535 | 30 | HDR biased | 4.6585 | 4.7774 | 0.1189 |
| 551 | 50 | HDR biased | 4.795 | 4.89 | 0.095 |
| 552 | 50 | HDR biased | 4.727 | 4.8655 | 0.1385 |
| 553 | 50 | HDR biased | 4.7715 | 4.9179 | 0.1464 |
| 554 | 50 | HDR biased | 4.5883 | 4.7385 | 0.1502 |
| 555 | 50 | HDR biased | 4.506 | 4.6695 | 0.1635 |

TID vs Post - Pre Exposure Delta

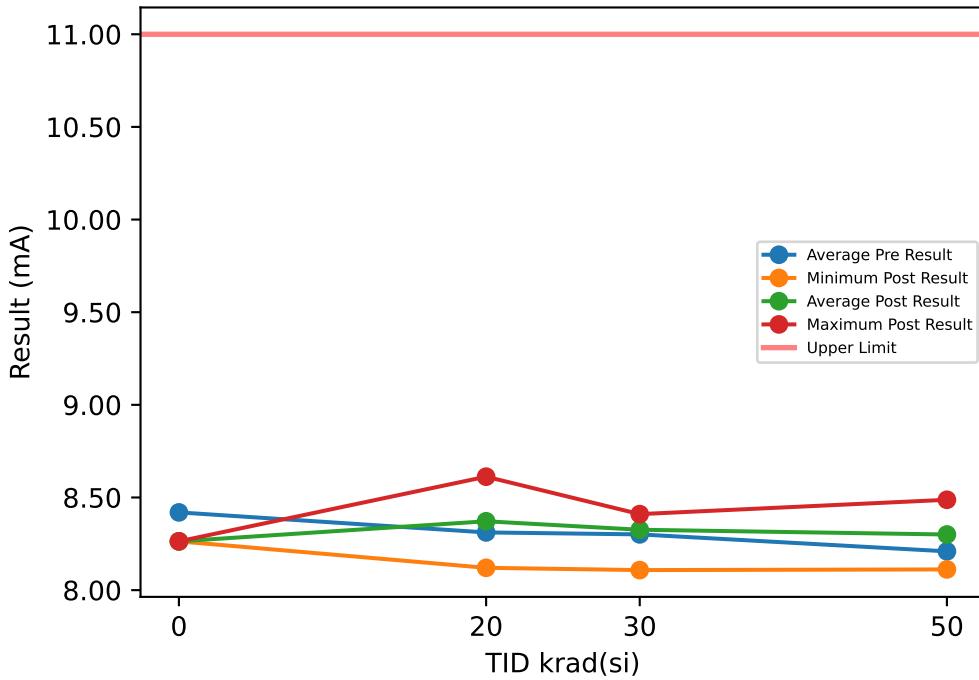


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.6376 | 4.6376 | 4.6376 | | 4.9053 | 4.9053 | 4.9053 | | 0.2677 | 0.2677 | 0.2677 | |
| 20 | 4.5768 | 4.6663 | 4.8005 | 0.086793 | 4.5896 | 4.7156 | 4.8339 | 0.079946 | 0.0128 | 0.04925 | 0.1011 | 0.024639 |
| 30 | 4.6173 | 4.6735 | 4.7611 | 0.051744 | 4.675 | 4.7501 | 4.8097 | 0.04694 | 0.009 | 0.07661 | 0.171 | 0.045642 |
| 50 | 4.506 | 4.6946 | 4.8191 | 0.10461 | 4.6695 | 4.8345 | 4.9609 | 0.089544 | -0.0414 | 0.13986 | 0.3782 | 0.11235 |

Device Test: 36.8 I_OP_LS_PWM_1MHZ(_lop LS VIN PWM 1MHz VIN_12V)

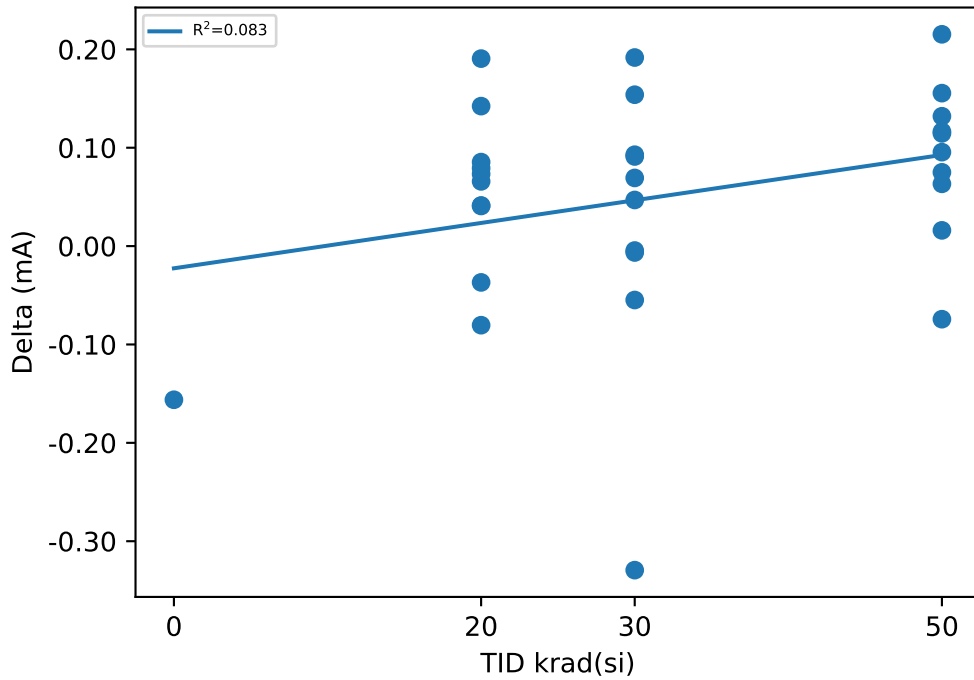
TID vs Result Stats



Test Results (Upper Limit = 11.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.4195 | 8.2633 | -0.1562 |
| 321 | 20 | HDR unbiased | 8.2688 | 8.3542 | 0.0854 |
| 322 | 20 | HDR unbiased | 8.1251 | 8.1984 | 0.0733 |
| 323 | 20 | HDR unbiased | 8.1364 | 8.1777 | 0.0413 |
| 324 | 20 | HDR unbiased | 8.0797 | 8.1205 | 0.0408 |
| 325 | 20 | HDR unbiased | 8.3397 | 8.3028 | -0.0369 |
| 331 | 30 | HDR unbiased | 8.3539 | 8.3474 | -0.0065 |
| 332 | 30 | HDR unbiased | 8.2946 | 8.2901 | -0.0045 |
| 333 | 30 | HDR unbiased | 8.282 | 8.3513 | 0.0693 |
| 334 | 30 | HDR unbiased | 8.2852 | 8.3321 | 0.0469 |
| 335 | 30 | HDR unbiased | 8.2342 | 8.3253 | 0.0911 |
| 351 | 50 | HDR unbiased | 8.1925 | 8.2085 | 0.016 |
| 352 | 50 | HDR unbiased | 8.1069 | 8.2233 | 0.1164 |
| 353 | 50 | HDR unbiased | 8.1166 | 8.2721 | 0.1555 |
| 354 | 50 | HDR unbiased | 8.0393 | 8.2546 | 0.2153 |
| 355 | 50 | HDR unbiased | 8.1861 | 8.1118 | -0.0743 |
| 521 | 20 | HDR biased | 8.47 | 8.6123 | 0.1423 |
| 522 | 20 | HDR biased | 8.3663 | 8.4321 | 0.0658 |
| 523 | 20 | HDR biased | 8.4348 | 8.514 | 0.0792 |
| 524 | 20 | HDR biased | 8.5123 | 8.4319 | -0.0804 |
| 525 | 20 | HDR biased | 8.3815 | 8.5721 | 0.1906 |
| 531 | 30 | HDR biased | 8.2448 | 8.3987 | 0.1539 |
| 532 | 30 | HDR biased | 8.4376 | 8.1082 | -0.3294 |
| 533 | 30 | HDR biased | 8.2145 | 8.4062 | 0.1917 |
| 534 | 30 | HDR biased | 8.3173 | 8.4102 | 0.0929 |
| 535 | 30 | HDR biased | 8.3446 | 8.2898 | -0.0548 |
| 551 | 50 | HDR biased | 8.2975 | 8.4121 | 0.1146 |
| 552 | 50 | HDR biased | 8.4243 | 8.4876 | 0.0633 |
| 553 | 50 | HDR biased | 8.2306 | 8.3626 | 0.132 |
| 554 | 50 | HDR biased | 8.3295 | 8.4045 | 0.075 |
| 555 | 50 | HDR biased | 8.1701 | 8.2656 | 0.0955 |

TID vs Post - Pre Exposure Delta

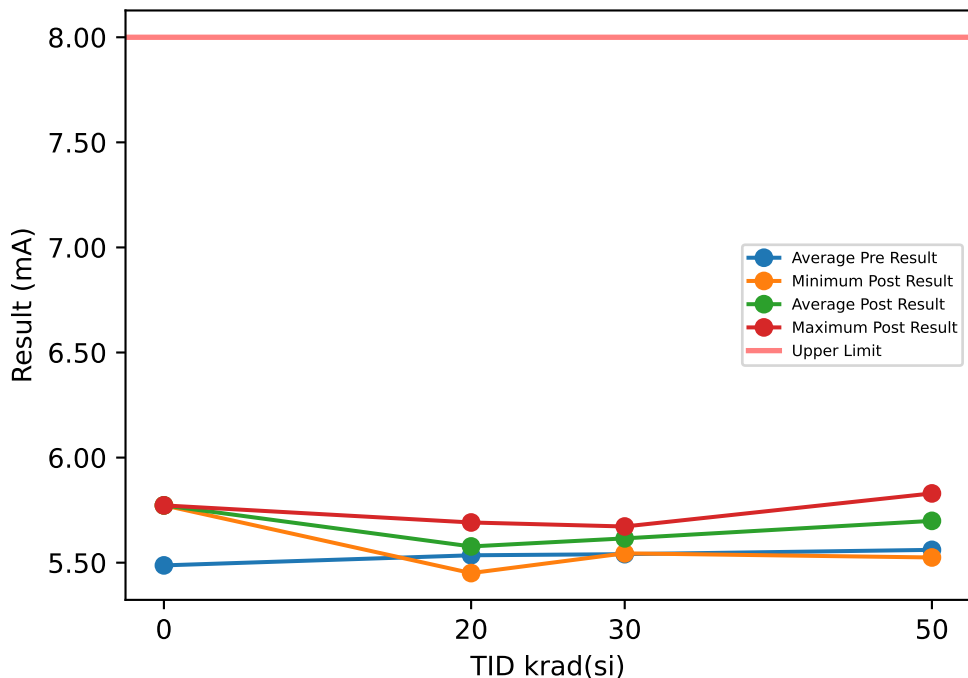


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 8.4195 | 8.4195 | 8.4195 | | 8.2633 | 8.2633 | 8.2633 | | -0.1562 | -0.1562 | -0.1562 | |
| 20 | 8.0797 | 8.3115 | 8.5123 | 0.15286 | 8.1205 | 8.3716 | 8.6123 | 0.17042 | -0.0804 | 0.06014 | 0.1906 | 0.078084 |
| 30 | 8.2145 | 8.3009 | 8.4376 | 0.066147 | 8.1082 | 8.3259 | 8.4102 | 0.088178 | -0.3294 | 0.02506 | 0.1917 | 0.14516 |
| 50 | 8.0393 | 8.2093 | 8.4243 | 0.1151 | 8.1118 | 8.3003 | 8.4876 | 0.11367 | -0.0743 | 0.09093 | 0.2153 | 0.079223 |

Device Test: 36.9 I_OP_HS_PWM_1MHZ(_Iop HS BOOT PWM 1MHz VIN_12V)

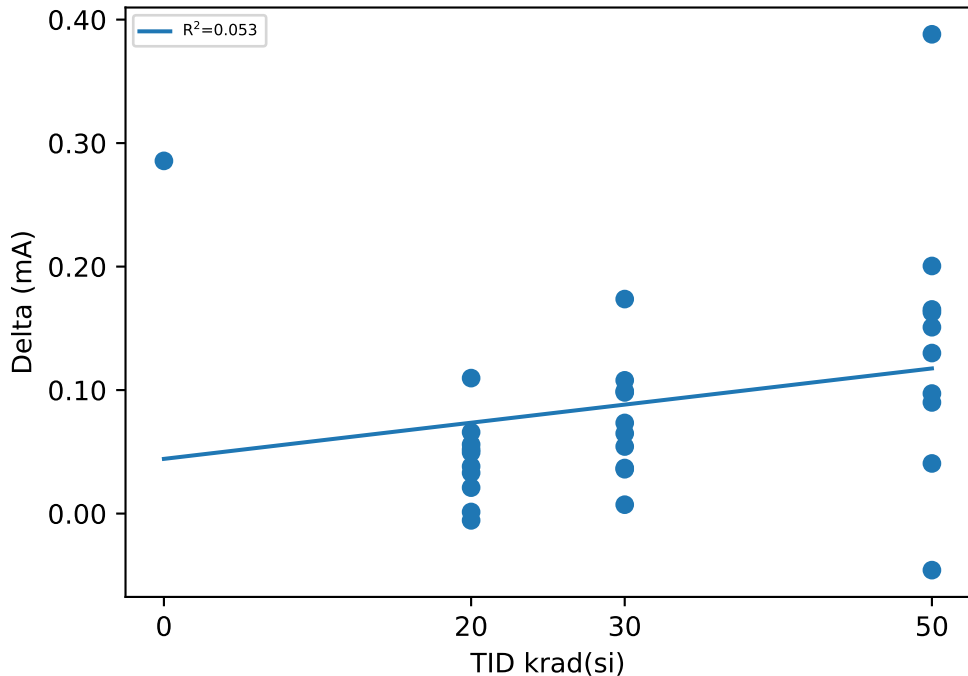
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.4871 | 5.7727 | 0.2856 |
| 321 | 20 | HDR unbiased | 5.456 | 5.4505 | -0.0055 |
| 322 | 20 | HDR unbiased | 5.6832 | 5.6845 | 0.0013 |
| 323 | 20 | HDR unbiased | 5.6583 | 5.6913 | 0.033 |
| 324 | 20 | HDR unbiased | 5.5086 | 5.5645 | 0.0559 |
| 325 | 20 | HDR unbiased | 5.4475 | 5.5134 | 0.0659 |
| 331 | 30 | HDR unbiased | 5.4904 | 5.5885 | 0.0981 |
| 332 | 30 | HDR unbiased | 5.5274 | 5.6353 | 0.1079 |
| 333 | 30 | HDR unbiased | 5.4808 | 5.5457 | 0.0649 |
| 334 | 30 | HDR unbiased | 5.6363 | 5.6722 | 0.0359 |
| 335 | 30 | HDR unbiased | 5.5316 | 5.605 | 0.0734 |
| 351 | 50 | HDR unbiased | 5.4415 | 5.8296 | 0.3881 |
| 352 | 50 | HDR unbiased | 5.5976 | 5.6948 | 0.0972 |
| 353 | 50 | HDR unbiased | 5.694 | 5.6482 | -0.0458 |
| 354 | 50 | HDR unbiased | 5.6255 | 5.6661 | 0.0406 |
| 355 | 50 | HDR unbiased | 5.5512 | 5.7517 | 0.2005 |
| 521 | 20 | HDR biased | 5.6223 | 5.6433 | 0.021 |
| 522 | 20 | HDR biased | 5.5617 | 5.6136 | 0.0519 |
| 523 | 20 | HDR biased | 5.4743 | 5.5238 | 0.0495 |
| 524 | 20 | HDR biased | 5.4455 | 5.5552 | 0.1097 |
| 525 | 20 | HDR biased | 5.4946 | 5.5328 | 0.0382 |
| 531 | 30 | HDR biased | 5.5638 | 5.6181 | 0.0543 |
| 532 | 30 | HDR biased | 5.4737 | 5.6474 | 0.1737 |
| 533 | 30 | HDR biased | 5.5373 | 5.5445 | 0.0072 |
| 534 | 30 | HDR biased | 5.6285 | 5.6654 | 0.0369 |
| 535 | 30 | HDR biased | 5.5353 | 5.6345 | 0.0992 |
| 551 | 50 | HDR biased | 5.6695 | 5.7595 | 0.09 |
| 552 | 50 | HDR biased | 5.5821 | 5.733 | 0.1509 |
| 553 | 50 | HDR biased | 5.6448 | 5.7748 | 0.13 |
| 554 | 50 | HDR biased | 5.4419 | 5.6072 | 0.1653 |
| 555 | 50 | HDR biased | 5.3618 | 5.5248 | 0.163 |

TID vs Post - Pre Exposure Delta

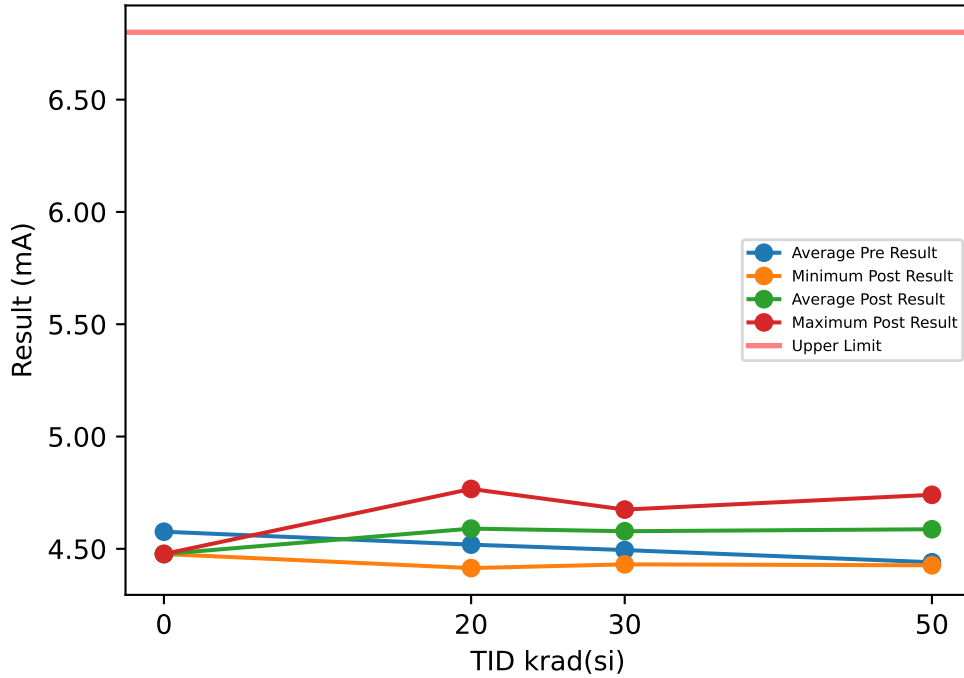


Test Statistics (mA)

| 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 | 5.4871 | 5.4871 | 5.4871 | | 5.7727 | 5.7727 | 5.7727 | | 0.2856 | 0.2856 | 0.2856 | |
| 20 | 5.4455 | 5.5352 | 5.6832 | 0.090321 | 5.4505 | 5.5773 | 5.6913 | 0.078753 | -0.0055 | 0.04209 | 0.1097 | 0.033252 |
| 30 | 5.4737 | 5.5405 | 5.6363 | 0.056064 | 5.5445 | 5.6157 | 5.6722 | 0.045012 | 0.0072 | 0.07515 | 0.1737 | 0.047203 |
| 50 | 5.3618 | 5.561 | 5.694 | 0.11089 | 5.5248 | 5.699 | 5.8296 | 0.089969 | -0.0458 | 0.13798 | 0.3881 | 0.11318 |

Device Test: 37.0 IQ_LS_PWM(_Iq LS VIN PWM VIN_14V)

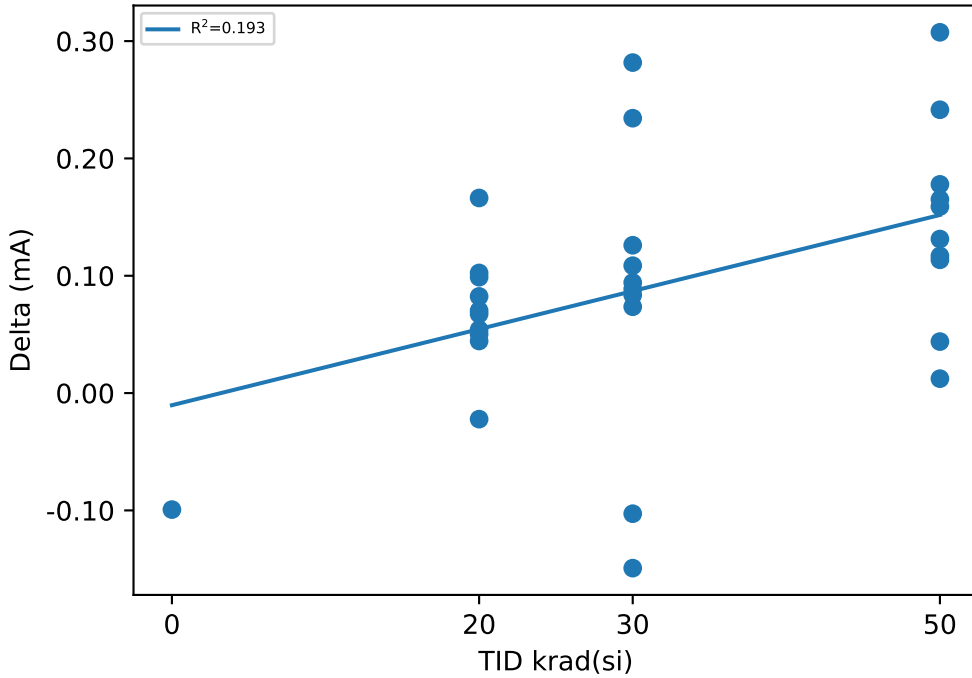
TID vs Result Stats



Test Results (Upper Limit = 6.8 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.5762 | 4.4769 | -0.0993 |
| 321 | 20 | HDR unbiased | 4.5134 | 4.5675 | 0.0541 |
| 322 | 20 | HDR unbiased | 4.3698 | 4.4142 | 0.0444 |
| 323 | 20 | HDR unbiased | 4.345 | 4.4153 | 0.0703 |
| 324 | 20 | HDR unbiased | 4.4217 | 4.4891 | 0.0674 |
| 325 | 20 | HDR unbiased | 4.4673 | 4.5175 | 0.0502 |
| 331 | 30 | HDR unbiased | 4.5294 | 4.618 | 0.0886 |
| 332 | 30 | HDR unbiased | 4.3953 | 4.4895 | 0.0942 |
| 333 | 30 | HDR unbiased | 4.5284 | 4.637 | 0.1086 |
| 334 | 30 | HDR unbiased | 4.5269 | 4.6105 | 0.0836 |
| 335 | 30 | HDR unbiased | 4.4879 | 4.6139 | 0.126 |
| 351 | 50 | HDR unbiased | 4.4505 | 4.4944 | 0.0439 |
| 352 | 50 | HDR unbiased | 4.4251 | 4.542 | 0.1169 |
| 353 | 50 | HDR unbiased | 4.3416 | 4.6491 | 0.3075 |
| 354 | 50 | HDR unbiased | 4.304 | 4.5455 | 0.2415 |
| 355 | 50 | HDR unbiased | 4.4143 | 4.4266 | 0.0123 |
| 521 | 20 | HDR biased | 4.6642 | 4.7666 | 0.1024 |
| 522 | 20 | HDR biased | 4.5875 | 4.6699 | 0.0824 |
| 523 | 20 | HDR biased | 4.5522 | 4.651 | 0.0988 |
| 524 | 20 | HDR biased | 4.6771 | 4.6549 | -0.0222 |
| 525 | 20 | HDR biased | 4.588 | 4.7543 | 0.1663 |
| 531 | 30 | HDR biased | 4.393 | 4.6747 | 0.2817 |
| 532 | 30 | HDR biased | 4.58 | 4.4308 | -0.1492 |
| 533 | 30 | HDR biased | 4.4141 | 4.6484 | 0.2343 |
| 534 | 30 | HDR biased | 4.5112 | 4.5848 | 0.0736 |
| 535 | 30 | HDR biased | 4.5781 | 4.4753 | -0.1028 |
| 551 | 50 | HDR biased | 4.477 | 4.636 | 0.159 |
| 552 | 50 | HDR biased | 4.5753 | 4.7404 | 0.1651 |
| 553 | 50 | HDR biased | 4.4753 | 4.5889 | 0.1136 |
| 554 | 50 | HDR biased | 4.534 | 4.7119 | 0.1779 |
| 555 | 50 | HDR biased | 4.4049 | 4.5362 | 0.1313 |

TID vs Post - Pre Exposure Delta

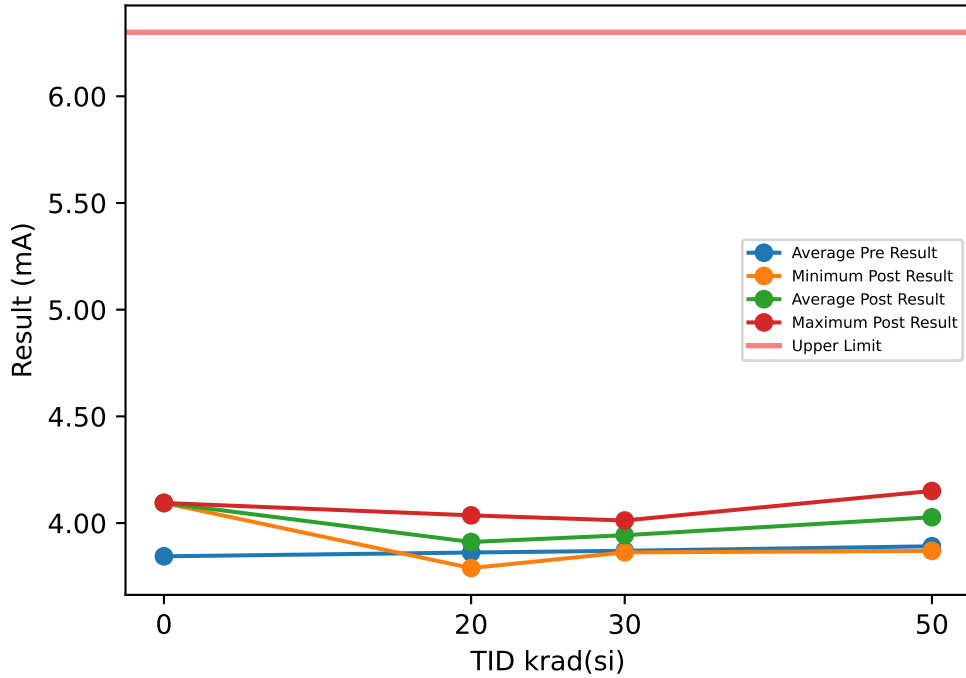


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.5762 | 4.5762 | 4.5762 | | 4.4769 | 4.4769 | 4.4769 | | -0.0993 | -0.0993 | -0.0993 | |
| 20 | 4.345 | 4.5186 | 4.6771 | 0.11611 | 4.4142 | 4.59 | 4.7666 | 0.12904 | -0.0222 | 0.07141 | 0.1663 | 0.048413 |
| 30 | 4.393 | 4.4944 | 4.58 | 0.070432 | 4.4308 | 4.5783 | 4.6747 | 0.082883 | -0.1492 | 0.08386 | 0.2817 | 0.13062 |
| 50 | 4.304 | 4.4402 | 4.5753 | 0.081759 | 4.4266 | 4.5871 | 4.7404 | 0.097766 | 0.0123 | 0.1469 | 0.3075 | 0.086383 |

Device Test: 37.1 IQ_HS_PWM(Iq HS BOOT PWM VIN_14V)

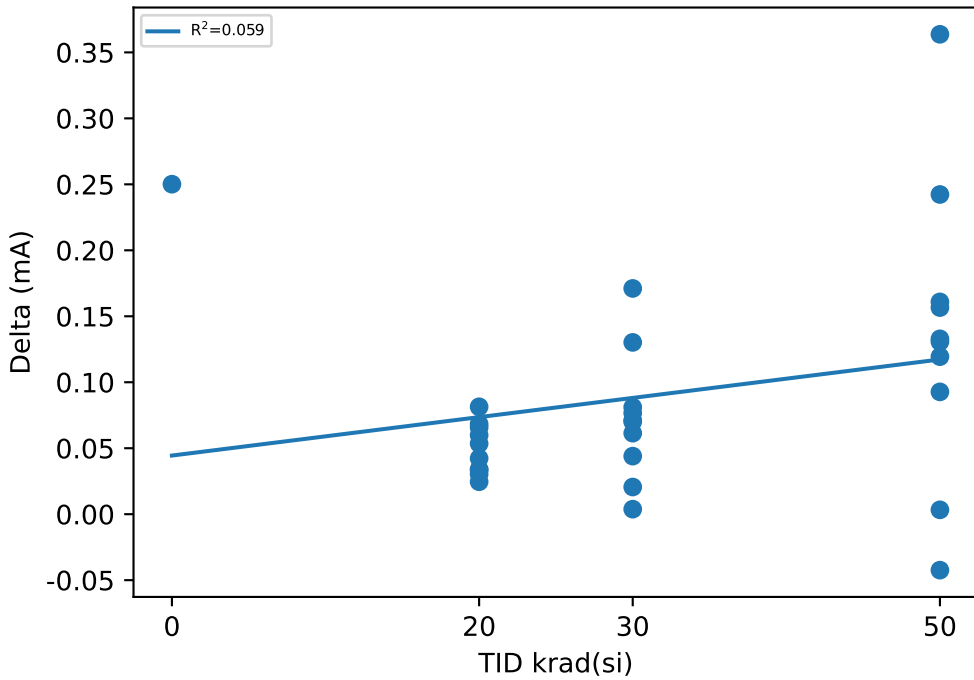
TID vs Result Stats



Test Results (Upper Limit = 6.3 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.8442 | 4.0943 | 0.2501 |
| 321 | 20 | HDR unbiased | 3.7645 | 3.7891 | 0.0246 |
| 322 | 20 | HDR unbiased | 3.9848 | 4.0185 | 0.0337 |
| 323 | 20 | HDR unbiased | 4.0059 | 4.0362 | 0.0303 |
| 324 | 20 | HDR unbiased | 3.8174 | 3.8831 | 0.0657 |
| 325 | 20 | HDR unbiased | 3.7977 | 3.8316 | 0.0339 |
| 331 | 30 | HDR unbiased | 3.8376 | 3.9077 | 0.0701 |
| 332 | 30 | HDR unbiased | 3.8669 | 3.9436 | 0.0767 |
| 333 | 30 | HDR unbiased | 3.8203 | 3.8817 | 0.0614 |
| 334 | 30 | HDR unbiased | 3.9508 | 3.9948 | 0.044 |
| 335 | 30 | HDR unbiased | 3.8452 | 3.9263 | 0.0811 |
| 351 | 50 | HDR unbiased | 3.7868 | 4.1505 | 0.3637 |
| 352 | 50 | HDR unbiased | 3.9063 | 4.0392 | 0.1329 |
| 353 | 50 | HDR unbiased | 4.0082 | 3.9658 | -0.0424 |
| 354 | 50 | HDR unbiased | 3.9722 | 3.9755 | 0.0033 |
| 355 | 50 | HDR unbiased | 3.8531 | 4.0954 | 0.2423 |
| 521 | 20 | HDR biased | 3.9389 | 3.9924 | 0.0535 |
| 522 | 20 | HDR biased | 3.8731 | 3.933 | 0.0599 |
| 523 | 20 | HDR biased | 3.8263 | 3.8686 | 0.0423 |
| 524 | 20 | HDR biased | 3.7994 | 3.8808 | 0.0814 |
| 525 | 20 | HDR biased | 3.8123 | 3.8807 | 0.0684 |
| 531 | 30 | HDR biased | 3.912 | 3.9326 | 0.0206 |
| 532 | 30 | HDR biased | 3.8246 | 3.9957 | 0.1711 |
| 533 | 30 | HDR biased | 3.8589 | 3.8627 | 0.0038 |
| 534 | 30 | HDR biased | 3.9409 | 4.0121 | 0.0712 |
| 535 | 30 | HDR biased | 3.845 | 3.9752 | 0.1302 |
| 551 | 50 | HDR biased | 3.983 | 4.0757 | 0.0927 |
| 552 | 50 | HDR biased | 3.9341 | 4.0535 | 0.1194 |
| 553 | 50 | HDR biased | 3.9598 | 4.1207 | 0.1609 |
| 554 | 50 | HDR biased | 3.7967 | 3.9274 | 0.1307 |
| 555 | 50 | HDR biased | 3.713 | 3.8696 | 0.1566 |

TID vs Post - Pre Exposure Delta

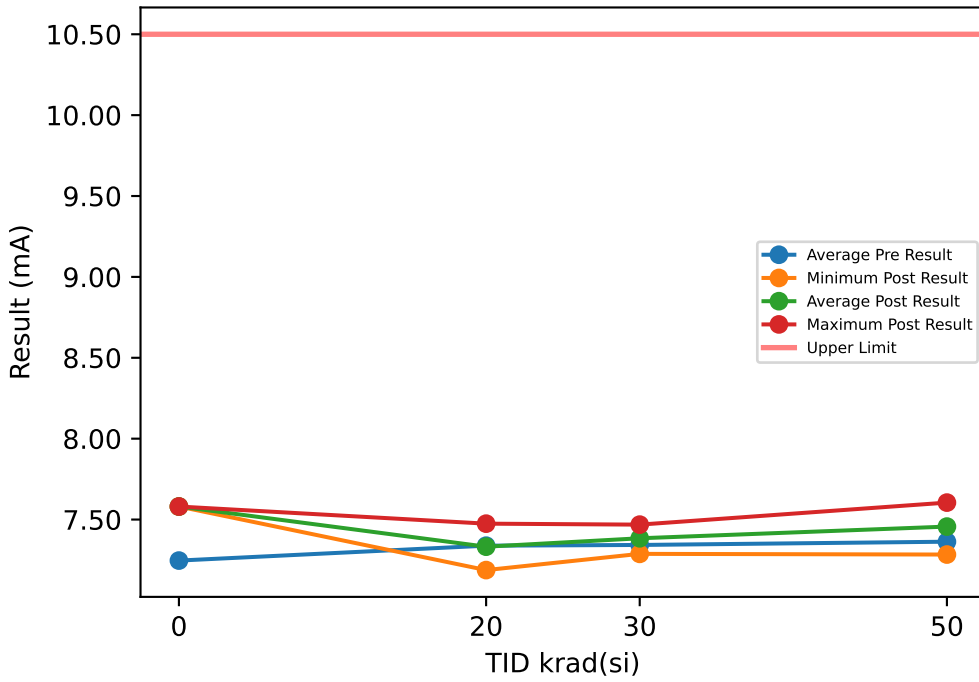


Test Statistics (mA)

| 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 | 3.8442 | 3.8442 | 3.8442 | | 4.0943 | 4.0943 | 4.0943 | | 0.2501 | 0.2501 | 0.2501 | |
| 20 | 3.7645 | 3.862 | 4.0059 | 0.08506 | 3.7891 | 3.9114 | 4.0362 | 0.081588 | 0.0246 | 0.04937 | 0.0814 | 0.019133 |
| 30 | 3.8203 | 3.8702 | 3.9508 | 0.047461 | 3.8627 | 3.9432 | 4.0121 | 0.050674 | 0.0038 | 0.07302 | 0.1711 | 0.048872 |
| 50 | 3.713 | 3.8913 | 4.0082 | 0.099156 | 3.8696 | 4.0273 | 4.1505 | 0.090077 | -0.0424 | 0.13601 | 0.3637 | 0.11344 |

Device Test: 37.11 I_OP_HS_PWM_2MHZ(_lop HS BOOT PWM 2MHz VIN_14V)

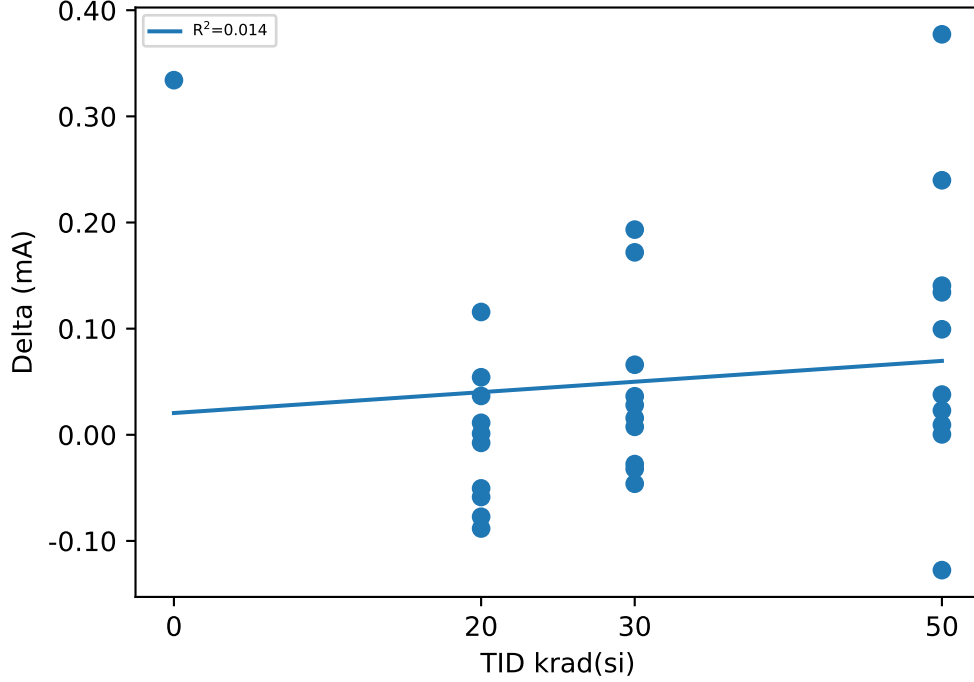
TID vs Result Stats



Test Results (Upper Limit = 10.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.2464 | 7.5805 | 0.3341 |
| 321 | 20 | HDR unbiased | 7.2759 | 7.1876 | -0.0883 |
| 322 | 20 | HDR unbiased | 7.5284 | 7.4512 | -0.0772 |
| 323 | 20 | HDR unbiased | 7.4204 | 7.4746 | 0.0542 |
| 324 | 20 | HDR unbiased | 7.3398 | 7.3322 | -0.0076 |
| 325 | 20 | HDR unbiased | 7.2322 | 7.2688 | 0.0366 |
| 331 | 30 | HDR unbiased | 7.2772 | 7.3432 | 0.066 |
| 332 | 30 | HDR unbiased | 7.2753 | 7.4686 | 0.1933 |
| 333 | 30 | HDR unbiased | 7.2721 | 7.2879 | 0.0158 |
| 334 | 30 | HDR unbiased | 7.4625 | 7.4304 | -0.0321 |
| 335 | 30 | HDR unbiased | 7.3656 | 7.3731 | 0.0075 |
| 351 | 50 | HDR unbiased | 7.2275 | 7.6048 | 0.3773 |
| 352 | 50 | HDR unbiased | 7.4338 | 7.4342 | 0.0004 |
| 353 | 50 | HDR unbiased | 7.5262 | 7.3987 | -0.1275 |
| 354 | 50 | HDR unbiased | 7.4165 | 7.4259 | 0.0094 |
| 355 | 50 | HDR unbiased | 7.3831 | 7.4825 | 0.0994 |
| 521 | 20 | HDR biased | 7.4357 | 7.3771 | -0.0586 |
| 522 | 20 | HDR biased | 7.3935 | 7.4048 | 0.0113 |
| 523 | 20 | HDR biased | 7.2649 | 7.2661 | 0.0012 |
| 524 | 20 | HDR biased | 7.1908 | 7.3065 | 0.1157 |
| 525 | 20 | HDR biased | 7.3036 | 7.2531 | -0.0505 |
| 531 | 30 | HDR biased | 7.3491 | 7.3771 | 0.028 |
| 532 | 30 | HDR biased | 7.2631 | 7.435 | 0.1719 |
| 533 | 30 | HDR biased | 7.3373 | 7.3097 | -0.0276 |
| 534 | 30 | HDR biased | 7.4627 | 7.4166 | -0.0461 |
| 535 | 30 | HDR biased | 7.3642 | 7.4005 | 0.0363 |
| 551 | 50 | HDR biased | 7.4958 | 7.5187 | 0.0229 |
| 552 | 50 | HDR biased | 7.3104 | 7.5502 | 0.2398 |
| 553 | 50 | HDR biased | 7.4683 | 7.5062 | 0.0379 |
| 554 | 50 | HDR biased | 7.2257 | 7.3599 | 0.1342 |
| 555 | 50 | HDR biased | 7.1432 | 7.2837 | 0.1405 |

TID vs Post - Pre Exposure Delta

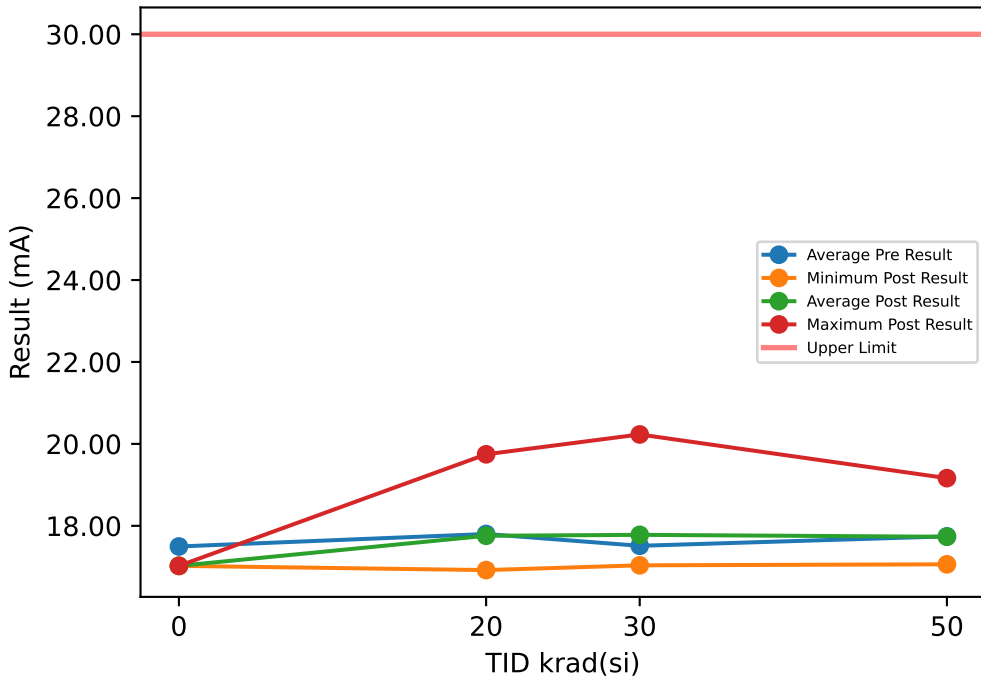


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.2464 | 7.2464 | 7.2464 | | 7.5805 | 7.5805 | 7.5805 | | 0.3341 | 0.3341 | 0.3341 | |
| 20 | 7.1908 | 7.3385 | 7.5284 | 0.10483 | 7.1876 | 7.3322 | 7.4746 | 0.09306 | -0.0883 | -0.00632 | 0.1157 | 0.064284 |
| 30 | 7.2631 | 7.3429 | 7.4627 | 0.074507 | 7.2879 | 7.3842 | 7.4686 | 0.057574 | -0.0461 | 0.0413 | 0.1933 | 0.082015 |
| 50 | 7.1432 | 7.363 | 7.5262 | 0.12993 | 7.2837 | 7.4565 | 7.6048 | 0.095309 | -0.1275 | 0.09343 | 0.3773 | 0.14083 |

Device Test: 37.12 I_OP_LS_PWM_5MHZ(_Iop LS VIN PWM 5MHz VIN_14V)

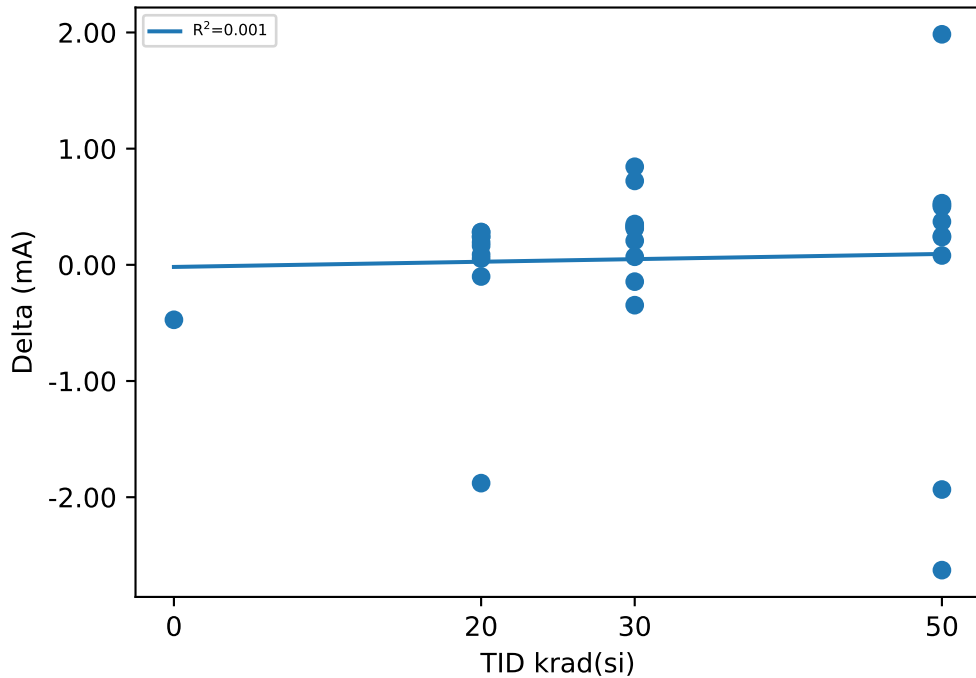
TID vs Result Stats



Test Results (Upper Limit = 30.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 17.496 | 17.023 | -0.4731 |
| 321 | 20 | HDR unbiased | 17.382 | 17.47 | 0.0881 |
| 322 | 20 | HDR unbiased | 17.138 | 17.192 | 0.0541 |
| 323 | 20 | HDR unbiased | 18.799 | 16.92 | -1.879 |
| 324 | 20 | HDR unbiased | 19.847 | 19.746 | -0.1005 |
| 325 | 20 | HDR unbiased | 17.052 | 17.292 | 0.2402 |
| 331 | 30 | HDR unbiased | 17.367 | 17.703 | 0.3362 |
| 332 | 30 | HDR unbiased | 19.879 | 20.231 | 0.3512 |
| 333 | 30 | HDR unbiased | 17.575 | 17.899 | 0.3247 |
| 334 | 30 | HDR unbiased | 17.285 | 17.492 | 0.2071 |
| 335 | 30 | HDR unbiased | 17.159 | 17.471 | 0.3129 |
| 351 | 50 | HDR unbiased | 17.18 | 19.164 | 1.9842 |
| 352 | 50 | HDR unbiased | 16.929 | 17.176 | 0.2471 |
| 353 | 50 | HDR unbiased | 19.811 | 17.877 | -1.934 |
| 354 | 50 | HDR unbiased | 16.922 | 17.452 | 0.5306 |
| 355 | 50 | HDR unbiased | 17.126 | 17.365 | 0.2389 |
| 521 | 20 | HDR biased | 17.758 | 17.921 | 0.1636 |
| 522 | 20 | HDR biased | 17.331 | 17.575 | 0.2444 |
| 523 | 20 | HDR biased | 17.489 | 17.77 | 0.281 |
| 524 | 20 | HDR biased | 17.569 | 17.851 | 0.2823 |
| 525 | 20 | HDR biased | 17.64 | 17.833 | 0.1933 |
| 531 | 30 | HDR biased | 16.83 | 17.675 | 0.8442 |
| 532 | 30 | HDR biased | 17.381 | 17.236 | -0.1446 |
| 533 | 30 | HDR biased | 17.044 | 17.766 | 0.7223 |
| 534 | 30 | HDR biased | 17.221 | 17.29 | 0.0694 |
| 535 | 30 | HDR biased | 17.383 | 17.036 | -0.3473 |
| 551 | 50 | HDR biased | 17.643 | 18.015 | 0.3719 |
| 552 | 50 | HDR biased | 17.226 | 17.726 | 0.4999 |
| 553 | 50 | HDR biased | 17.627 | 17.708 | 0.0805 |
| 554 | 50 | HDR biased | 17.276 | 17.791 | 0.5148 |
| 555 | 50 | HDR biased | 19.688 | 17.061 | -2.6278 |

TID vs Post - Pre Exposure Delta

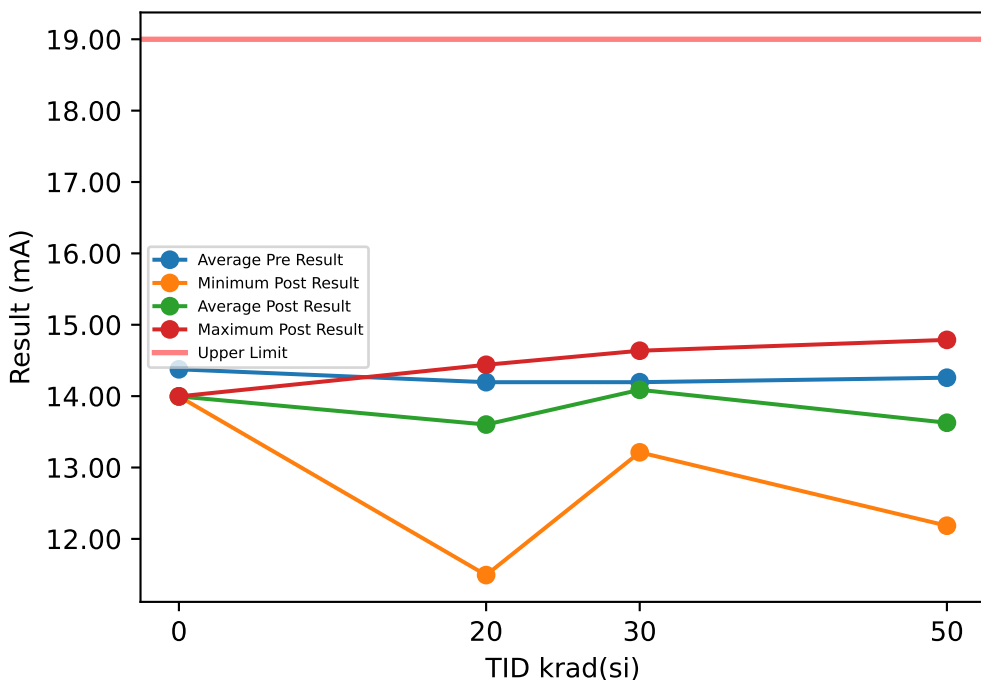


Test Statistics (mA)

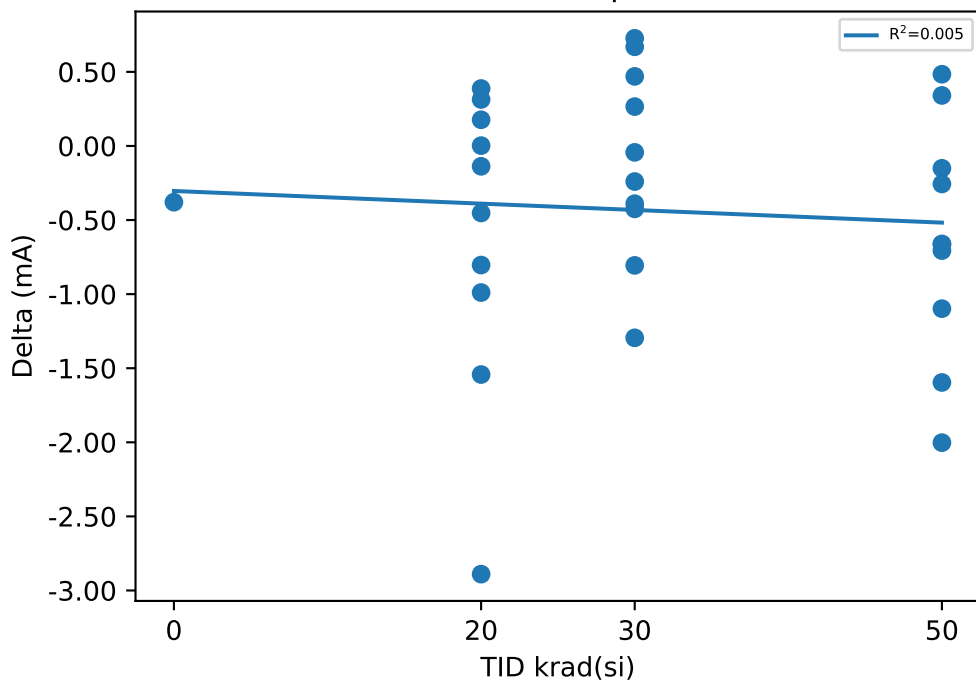
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 17.496 | 17.496 | 17.496 | | 17.023 | 17.023 | 17.023 | | -0.4731 | -0.4731 | -0.4731 | |
| 20 | 17.052 | 17.8 | 19.847 | 0.86636 | 16.92 | 17.757 | 19.746 | 0.77098 | -1.879 | -0.04325 | 0.2823 | 0.65599 |
| 30 | 16.83 | 17.512 | 19.879 | 0.85691 | 17.036 | 17.78 | 20.231 | 0.9009 | -0.3473 | 0.26761 | 0.8442 | 0.35702 |
| 50 | 16.922 | 17.743 | 19.811 | 1.0855 | 17.061 | 17.733 | 19.164 | 0.58967 | -2.6278 | -0.00939 | 1.9842 | 1.3183 |

Device Test: 37.13 I_OP_HS_PWM_5MHZ(_lop HS BOOT PWM 5MHz VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 19.0 (mA))

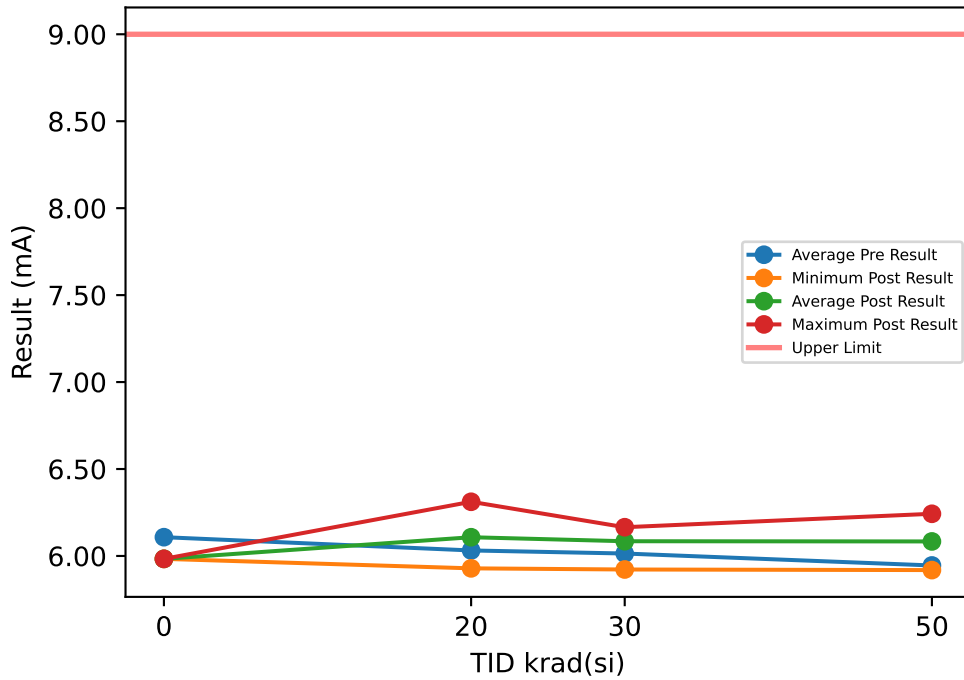
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 14.376 | 13.996 | -0.3795 |
| 321 | 20 | HDR unbiased | 14.312 | 13.322 | -0.9893 |
| 322 | 20 | HDR unbiased | 14.577 | 14.439 | -0.1373 |
| 323 | 20 | HDR unbiased | 14.256 | 14.258 | 0.0023 |
| 324 | 20 | HDR unbiased | 14.41 | 13.958 | -0.4522 |
| 325 | 20 | HDR unbiased | 14.423 | 12.88 | -1.5427 |
| 331 | 30 | HDR unbiased | 14.256 | 13.45 | -0.806 |
| 332 | 30 | HDR unbiased | 14.243 | 14.003 | -0.2401 |
| 333 | 30 | HDR unbiased | 14.508 | 13.213 | -1.2949 |
| 334 | 30 | HDR unbiased | 14.242 | 13.817 | -0.4246 |
| 335 | 30 | HDR unbiased | 14.587 | 14.544 | -0.0432 |
| 351 | 50 | HDR unbiased | 14.447 | 14.788 | 0.341 |
| 352 | 50 | HDR unbiased | 14.149 | 13.892 | -0.2565 |
| 353 | 50 | HDR unbiased | 14.187 | 12.185 | -2.0023 |
| 354 | 50 | HDR unbiased | 14.367 | 12.77 | -1.5962 |
| 355 | 50 | HDR unbiased | 14.47 | 13.808 | -0.6622 |
| 521 | 20 | HDR biased | 14.633 | 13.83 | -0.8037 |
| 522 | 20 | HDR biased | 13.993 | 14.38 | 0.3876 |
| 523 | 20 | HDR biased | 13.729 | 14.043 | 0.3137 |
| 524 | 20 | HDR biased | 13.238 | 13.415 | 0.1768 |
| 525 | 20 | HDR biased | 14.383 | 11.493 | -2.8897 |
| 531 | 30 | HDR biased | 14.213 | 13.823 | -0.3896 |
| 532 | 30 | HDR biased | 13.904 | 14.574 | 0.6692 |
| 533 | 30 | HDR biased | 13.562 | 14.288 | 0.7265 |
| 534 | 30 | HDR biased | 14.071 | 14.541 | 0.4696 |
| 535 | 30 | HDR biased | 14.37 | 14.636 | 0.2657 |
| 551 | 50 | HDR biased | 14.281 | 13.575 | -0.7061 |
| 552 | 50 | HDR biased | 13.935 | 13.784 | -0.1507 |
| 553 | 50 | HDR biased | 14.382 | 13.72 | -0.6621 |
| 554 | 50 | HDR biased | 14.332 | 13.234 | -1.098 |
| 555 | 50 | HDR biased | 14.03 | 14.514 | 0.4841 |

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 | 14.376 | 14.376 | 14.376 | | 13.996 | 13.996 | 13.996 | | -0.3795 | -0.3795 | -0.3795 | |
| 20 | 13.238 | 14.195 | 14.633 | 0.42982 | 11.493 | 13.602 | 14.439 | 0.89399 | -2.8897 | -0.59345 | 0.3876 | 1.0185 |
| 30 | 13.562 | 14.196 | 14.587 | 0.2966 | 13.213 | 14.089 | 14.636 | 0.50687 | -1.2949 | -0.10674 | 0.7265 | 0.65581 |
| 50 | 13.935 | 14.258 | 14.47 | 0.17858 | 12.185 | 13.627 | 14.788 | 0.76332 | -2.0023 | -0.6309 | 0.4841 | 0.78859 |

Device Test: 37.14 I_OP_LS_IIM_500KHZ(_lop LS VIN IIM Interlock 500kHz VIN_14V)

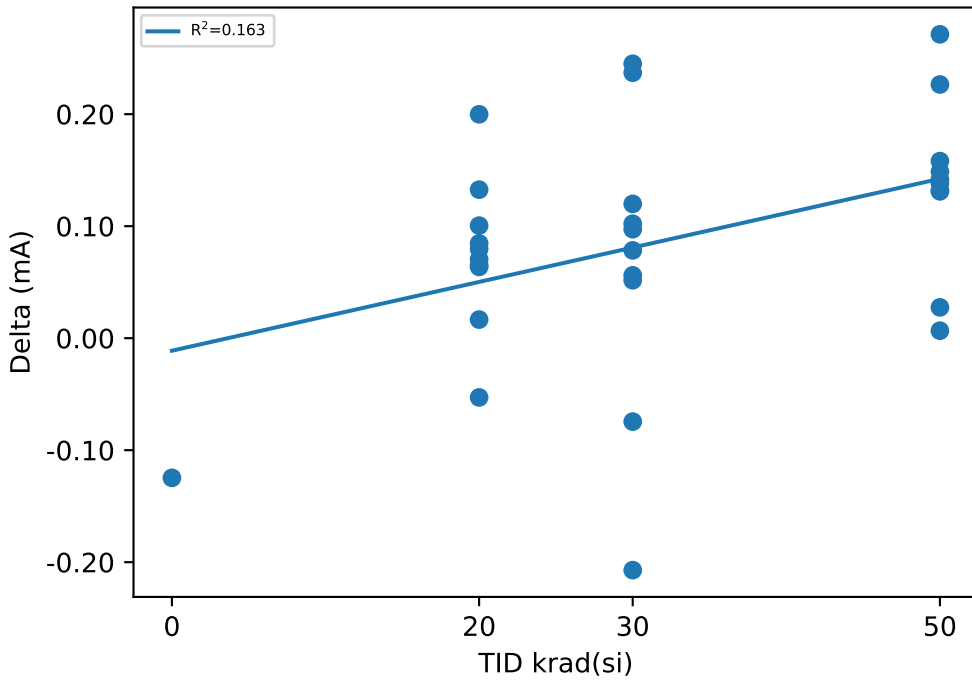
TID vs Result Stats



Test Results (Upper Limit = 9.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.108 | 5.9833 | -0.1247 |
| 321 | 20 | HDR unbiased | 6.011 | 6.0905 | 0.0795 |
| 322 | 20 | HDR unbiased | 5.8691 | 5.9396 | 0.0705 |
| 323 | 20 | HDR unbiased | 5.8636 | 5.9288 | 0.0652 |
| 324 | 20 | HDR unbiased | 5.8888 | 5.9524 | 0.0636 |
| 325 | 20 | HDR unbiased | 6.0125 | 6.0291 | 0.0166 |
| 331 | 30 | HDR unbiased | 6.0672 | 6.1189 | 0.0517 |
| 332 | 30 | HDR unbiased | 5.9524 | 6.0085 | 0.0561 |
| 333 | 30 | HDR unbiased | 6.0423 | 6.1445 | 0.1022 |
| 334 | 30 | HDR unbiased | 6.0298 | 6.1082 | 0.0784 |
| 335 | 30 | HDR unbiased | 5.9824 | 6.1023 | 0.1199 |
| 351 | 50 | HDR unbiased | 5.9595 | 5.987 | 0.0275 |
| 352 | 50 | HDR unbiased | 5.896 | 6.0343 | 0.1383 |
| 353 | 50 | HDR unbiased | 5.8442 | 6.1155 | 0.2713 |
| 354 | 50 | HDR unbiased | 5.8051 | 6.0316 | 0.2265 |
| 355 | 50 | HDR unbiased | 5.9121 | 5.9188 | 0.0067 |
| 521 | 20 | HDR biased | 6.179 | 6.3116 | 0.1326 |
| 522 | 20 | HDR biased | 6.0904 | 6.175 | 0.0846 |
| 523 | 20 | HDR biased | 6.1028 | 6.2033 | 0.1005 |
| 524 | 20 | HDR biased | 6.2112 | 6.1583 | -0.0529 |
| 525 | 20 | HDR biased | 6.0886 | 6.2885 | 0.1999 |
| 531 | 30 | HDR biased | 5.9283 | 6.1653 | 0.237 |
| 532 | 30 | HDR biased | 6.1293 | 5.9222 | -0.2071 |
| 533 | 30 | HDR biased | 5.9157 | 6.1607 | 0.245 |
| 534 | 30 | HDR biased | 6.017 | 6.1143 | 0.0973 |
| 535 | 30 | HDR biased | 6.0765 | 6.002 | -0.0745 |
| 551 | 50 | HDR biased | 5.9947 | 6.1528 | 0.1581 |
| 552 | 50 | HDR biased | 6.1106 | 6.2425 | 0.1319 |
| 553 | 50 | HDR biased | 5.9696 | 6.1113 | 0.1417 |
| 554 | 50 | HDR biased | 6.0494 | 6.1981 | 0.1487 |
| 555 | 50 | HDR biased | 5.9125 | 6.0436 | 0.1311 |

TID vs Post - Pre Exposure Delta

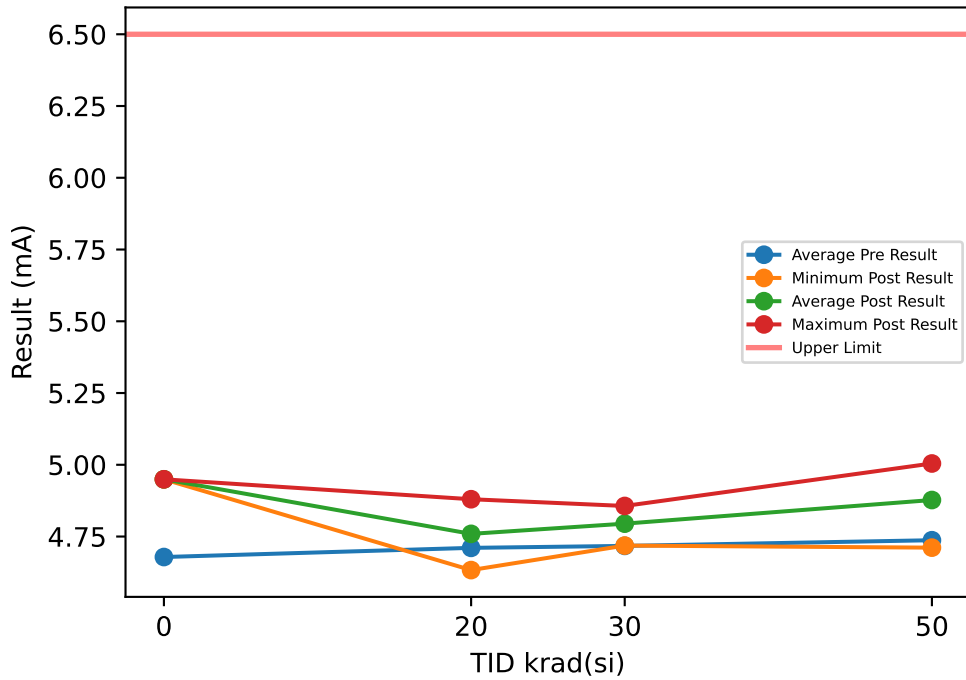


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.108 | 6.108 | 6.108 | | 5.9833 | 5.9833 | 5.9833 | | -0.1247 | -0.1247 | -0.1247 | |
| 20 | 5.8636 | 6.0317 | 6.2112 | 0.12542 | 5.9288 | 6.1077 | 6.3116 | 0.14195 | -0.0529 | 0.07601 | 0.1999 | 0.066404 |
| 30 | 5.9157 | 6.0141 | 6.1293 | 0.069033 | 5.9222 | 6.0847 | 6.1653 | 0.080144 | -0.2071 | 0.0706 | 0.245 | 0.13377 |
| 50 | 5.8051 | 5.9454 | 6.1106 | 0.091821 | 5.9188 | 6.0835 | 6.2425 | 0.098971 | 0.0067 | 0.13818 | 0.2713 | 0.078647 |

Device Test: 37.15 I_OP_HS_IIM_500KHZ(_Iop HS BOOT IIM Interlock 500kHz VIN_14V)

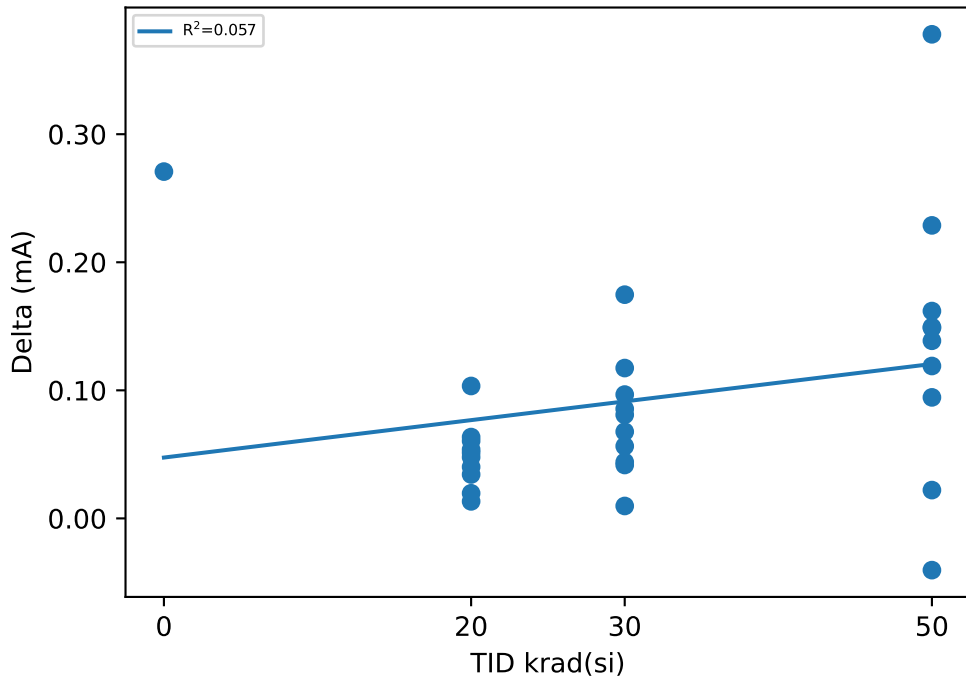
TID vs Result Stats



Test Results (Upper Limit = 6.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.6786 | 4.9494 | 0.2708 |
| 321 | 20 | HDR unbiased | 4.6198 | 4.6331 | 0.0133 |
| 322 | 20 | HDR unbiased | 4.8472 | 4.8668 | 0.0196 |
| 323 | 20 | HDR unbiased | 4.8457 | 4.88 | 0.0343 |
| 324 | 20 | HDR unbiased | 4.6783 | 4.7418 | 0.0635 |
| 325 | 20 | HDR unbiased | 4.6339 | 4.6852 | 0.0513 |
| 331 | 30 | HDR unbiased | 4.677 | 4.7625 | 0.0855 |
| 332 | 30 | HDR unbiased | 4.7079 | 4.8046 | 0.0967 |
| 333 | 30 | HDR unbiased | 4.661 | 4.7287 | 0.0677 |
| 334 | 30 | HDR unbiased | 4.8079 | 4.8496 | 0.0417 |
| 335 | 30 | HDR unbiased | 4.7016 | 4.7825 | 0.0809 |
| 351 | 50 | HDR unbiased | 4.6265 | 5.0045 | 0.378 |
| 352 | 50 | HDR unbiased | 4.7604 | 4.8794 | 0.119 |
| 353 | 50 | HDR unbiased | 4.8623 | 4.8219 | -0.0404 |
| 354 | 50 | HDR unbiased | 4.8117 | 4.8338 | 0.0221 |
| 355 | 50 | HDR unbiased | 4.7103 | 4.9391 | 0.2288 |
| 521 | 20 | HDR biased | 4.7919 | 4.8321 | 0.0402 |
| 522 | 20 | HDR biased | 4.7295 | 4.79 | 0.0605 |
| 523 | 20 | HDR biased | 4.6599 | 4.7077 | 0.0478 |
| 524 | 20 | HDR biased | 4.6322 | 4.7356 | 0.1034 |
| 525 | 20 | HDR biased | 4.667 | 4.7208 | 0.0538 |
| 531 | 30 | HDR biased | 4.7481 | 4.7921 | 0.044 |
| 532 | 30 | HDR biased | 4.659 | 4.8337 | 0.1747 |
| 533 | 30 | HDR biased | 4.7088 | 4.7185 | 0.0097 |
| 534 | 30 | HDR biased | 4.8001 | 4.8565 | 0.0564 |
| 535 | 30 | HDR biased | 4.7025 | 4.8199 | 0.1174 |
| 551 | 50 | HDR biased | 4.8367 | 4.9312 | 0.0945 |
| 552 | 50 | HDR biased | 4.7688 | 4.9075 | 0.1387 |
| 553 | 50 | HDR biased | 4.8132 | 4.962 | 0.1488 |
| 554 | 50 | HDR biased | 4.6321 | 4.7815 | 0.1494 |
| 555 | 50 | HDR biased | 4.5494 | 4.7113 | 0.1619 |

TID vs Post - Pre Exposure Delta

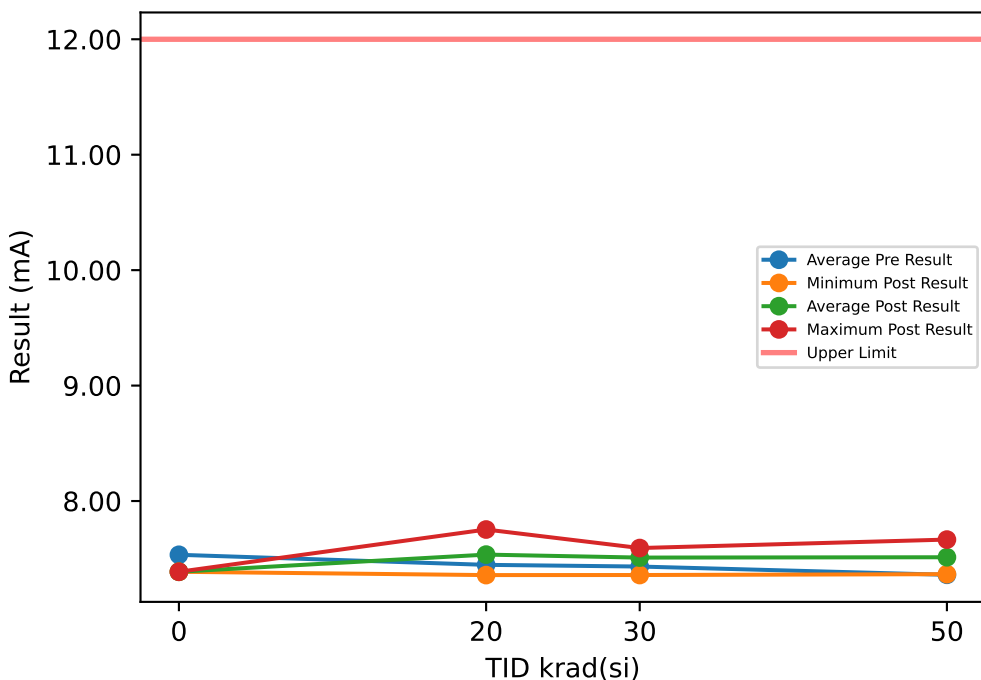


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.6786 | 4.6786 | 4.6786 | | 4.9494 | 4.9494 | 4.9494 | | 0.2708 | 0.2708 | 0.2708 | |
| 20 | 4.6198 | 4.7105 | 4.8472 | 0.087982 | 4.6331 | 4.7593 | 4.88 | 0.080827 | 0.0133 | 0.04877 | 0.1034 | 0.025306 |
| 30 | 4.659 | 4.7174 | 4.8079 | 0.052527 | 4.7185 | 4.7949 | 4.8565 | 0.047658 | 0.0097 | 0.07747 | 0.1747 | 0.045978 |
| 50 | 4.5494 | 4.7371 | 4.8623 | 0.10419 | 4.7113 | 4.8772 | 5.0045 | 0.08987 | -0.0404 | 0.14008 | 0.378 | 0.11261 |

Device Test: 37.16 I_OP_LS_IIM_1MHZ(_lop LS VIN IIM Interlock 1MHz VIN_14V)

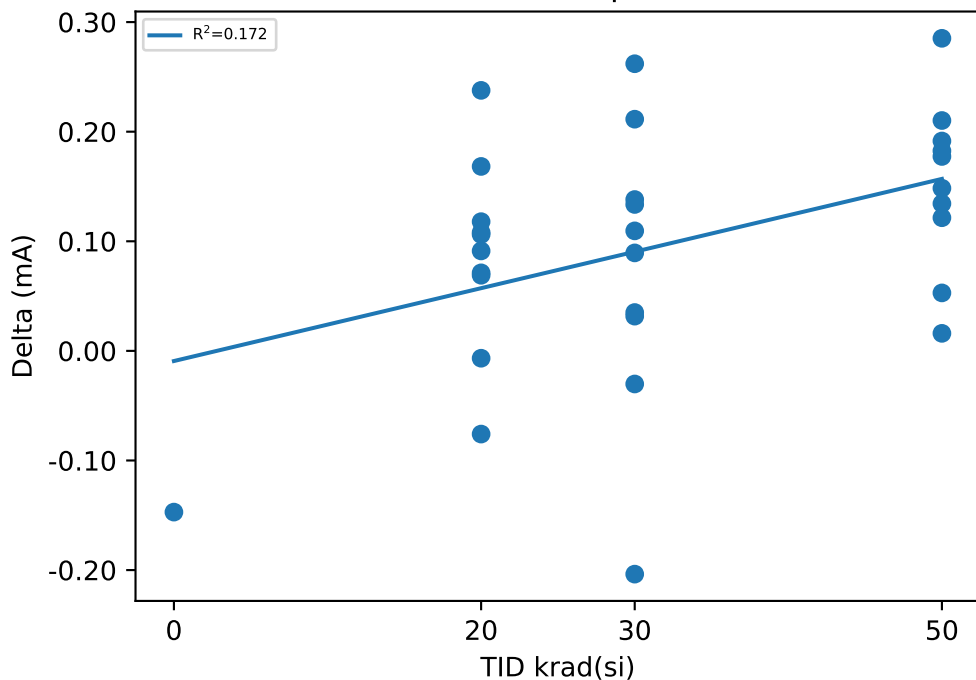
TID vs Result Stats



Test Results (Upper Limit = 12.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.5343 | 7.3872 | -0.1471 |
| 321 | 20 | HDR unbiased | 7.4196 | 7.5375 | 0.1179 |
| 322 | 20 | HDR unbiased | 7.2771 | 7.3833 | 0.1062 |
| 323 | 20 | HDR unbiased | 7.2993 | 7.3705 | 0.0712 |
| 324 | 20 | HDR unbiased | 7.2895 | 7.3585 | 0.069 |
| 325 | 20 | HDR unbiased | 7.4438 | 7.4371 | -0.0067 |
| 331 | 30 | HDR unbiased | 7.5018 | 7.5335 | 0.0317 |
| 332 | 30 | HDR unbiased | 7.3854 | 7.4204 | 0.035 |
| 333 | 30 | HDR unbiased | 7.4833 | 7.5928 | 0.1095 |
| 334 | 30 | HDR unbiased | 7.4352 | 7.5246 | 0.0894 |
| 335 | 30 | HDR unbiased | 7.3886 | 7.5222 | 0.1336 |
| 351 | 50 | HDR unbiased | 7.3878 | 7.4038 | 0.016 |
| 352 | 50 | HDR unbiased | 7.2938 | 7.4763 | 0.1825 |
| 353 | 50 | HDR unbiased | 7.244 | 7.5292 | 0.2852 |
| 354 | 50 | HDR unbiased | 7.2374 | 7.4476 | 0.2102 |
| 355 | 50 | HDR unbiased | 7.3136 | 7.3665 | 0.0529 |
| 521 | 20 | HDR biased | 7.5849 | 7.7532 | 0.1683 |
| 522 | 20 | HDR biased | 7.4943 | 7.5855 | 0.0912 |
| 523 | 20 | HDR biased | 7.5341 | 7.6422 | 0.1081 |
| 524 | 20 | HDR biased | 7.6407 | 7.5648 | -0.0759 |
| 525 | 20 | HDR biased | 7.4888 | 7.7265 | 0.2377 |
| 531 | 30 | HDR biased | 7.3618 | 7.5732 | 0.2114 |
| 532 | 30 | HDR biased | 7.5628 | 7.3591 | -0.2037 |
| 533 | 30 | HDR biased | 7.3107 | 7.5727 | 0.262 |
| 534 | 30 | HDR biased | 7.421 | 7.5591 | 0.1381 |
| 535 | 30 | HDR biased | 7.475 | 7.4448 | -0.0302 |
| 551 | 50 | HDR biased | 7.3962 | 7.5736 | 0.1774 |
| 552 | 50 | HDR biased | 7.5445 | 7.666 | 0.1215 |
| 553 | 50 | HDR biased | 7.3706 | 7.5621 | 0.1915 |
| 554 | 50 | HDR biased | 7.4814 | 7.6158 | 0.1344 |
| 555 | 50 | HDR biased | 7.3405 | 7.4889 | 0.1484 |

TID vs Post - Pre Exposure Delta

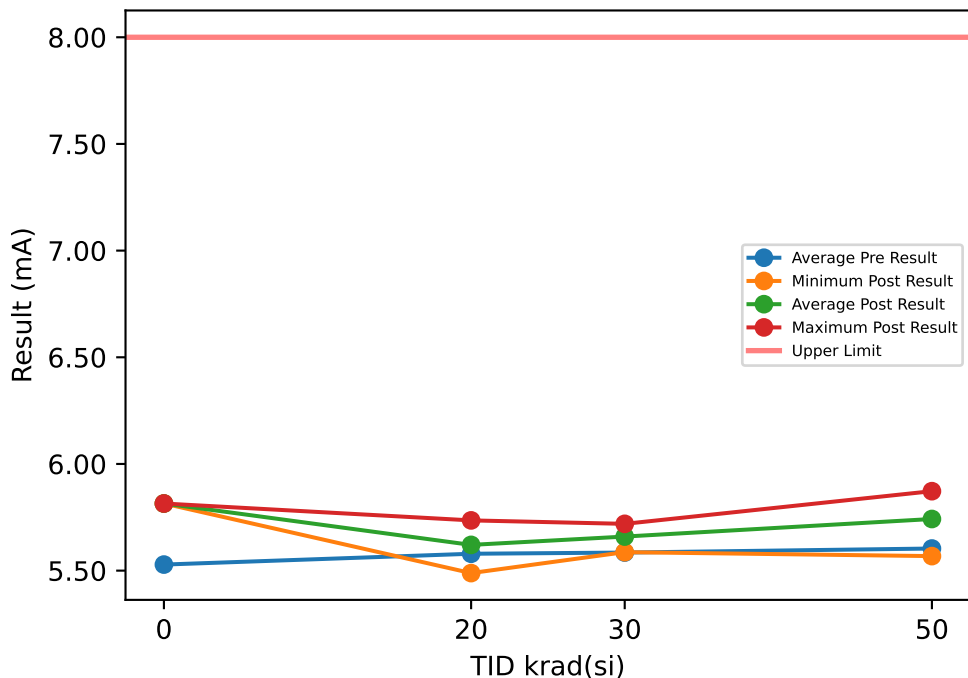


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.5343 | 7.5343 | 7.5343 | | 7.3872 | 7.3872 | 7.3872 | | -0.1471 | -0.1471 | -0.1471 | |
| 20 | 7.2771 | 7.4472 | 7.6407 | 0.12665 | 7.3585 | 7.5359 | 7.7532 | 0.1453 | -0.0759 | 0.0887 | 0.2377 | 0.08626 |
| 30 | 7.3107 | 7.4326 | 7.5628 | 0.074749 | 7.3591 | 7.5102 | 7.5928 | 0.076852 | -0.2037 | 0.07768 | 0.262 | 0.13103 |
| 50 | 7.2374 | 7.361 | 7.5445 | 0.097961 | 7.3665 | 7.513 | 7.666 | 0.09423 | 0.016 | 0.152 | 0.2852 | 0.077341 |

Device Test: 37.17 I_OP_HS_IIM_1MHZ(_Iop HS BOOT IIM Interlock 1MHz VIN_14V)

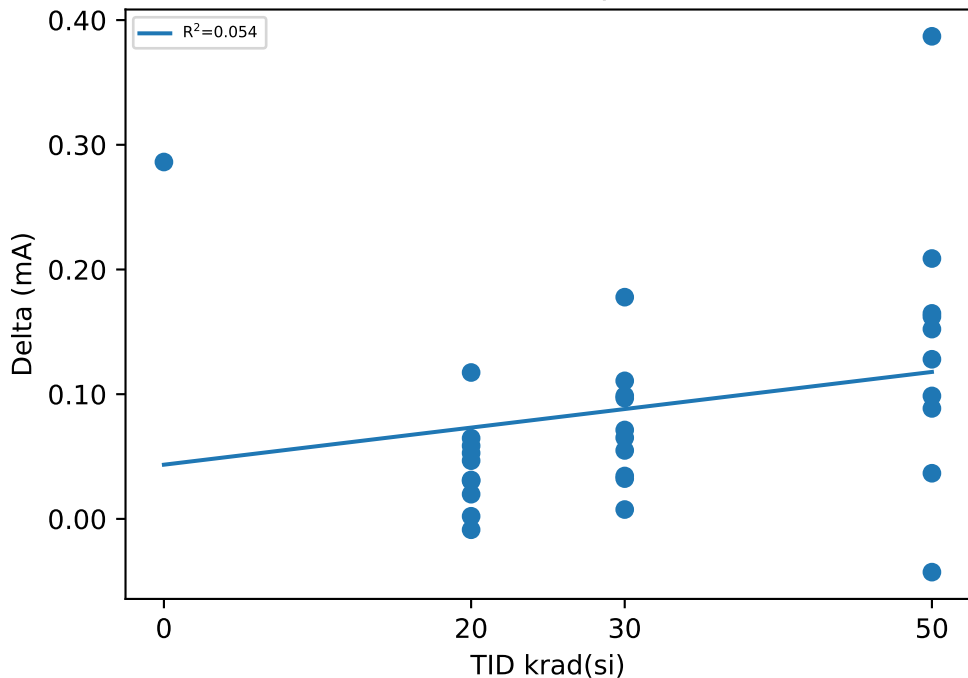
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.5284 | 5.8146 | 0.2862 |
| 321 | 20 | HDR unbiased | 5.4972 | 5.4885 | -0.0087 |
| 322 | 20 | HDR unbiased | 5.7294 | 5.7315 | 0.0021 |
| 323 | 20 | HDR unbiased | 5.7043 | 5.7355 | 0.0312 |
| 324 | 20 | HDR unbiased | 5.5574 | 5.616 | 0.0586 |
| 325 | 20 | HDR unbiased | 5.4902 | 5.5549 | 0.0647 |
| 331 | 30 | HDR unbiased | 5.533 | 5.6298 | 0.0968 |
| 332 | 30 | HDR unbiased | 5.5695 | 5.6802 | 0.1107 |
| 333 | 30 | HDR unbiased | 5.5245 | 5.5896 | 0.0651 |
| 334 | 30 | HDR unbiased | 5.6849 | 5.7193 | 0.0344 |
| 335 | 30 | HDR unbiased | 5.5783 | 5.6496 | 0.0713 |
| 351 | 50 | HDR unbiased | 5.4854 | 5.8724 | 0.387 |
| 352 | 50 | HDR unbiased | 5.6379 | 5.7365 | 0.0986 |
| 353 | 50 | HDR unbiased | 5.7353 | 5.6926 | -0.0427 |
| 354 | 50 | HDR unbiased | 5.6706 | 5.7072 | 0.0366 |
| 355 | 50 | HDR unbiased | 5.5896 | 5.7984 | 0.2088 |
| 521 | 20 | HDR biased | 5.6639 | 5.6837 | 0.0198 |
| 522 | 20 | HDR biased | 5.6063 | 5.6591 | 0.0528 |
| 523 | 20 | HDR biased | 5.5153 | 5.562 | 0.0467 |
| 524 | 20 | HDR biased | 5.4853 | 5.6027 | 0.1174 |
| 525 | 20 | HDR biased | 5.5419 | 5.5724 | 0.0305 |
| 531 | 30 | HDR biased | 5.6059 | 5.6608 | 0.0549 |
| 532 | 30 | HDR biased | 5.5139 | 5.6917 | 0.1778 |
| 533 | 30 | HDR biased | 5.5791 | 5.5866 | 0.0075 |
| 534 | 30 | HDR biased | 5.6788 | 5.7111 | 0.0323 |
| 535 | 30 | HDR biased | 5.5791 | 5.6778 | 0.0987 |
| 551 | 50 | HDR biased | 5.7114 | 5.8 | 0.0886 |
| 552 | 50 | HDR biased | 5.6246 | 5.7768 | 0.1522 |
| 553 | 50 | HDR biased | 5.6888 | 5.8168 | 0.128 |
| 554 | 50 | HDR biased | 5.4866 | 5.6514 | 0.1648 |
| 555 | 50 | HDR biased | 5.4059 | 5.5681 | 0.1622 |

TID vs Post - Pre Exposure Delta

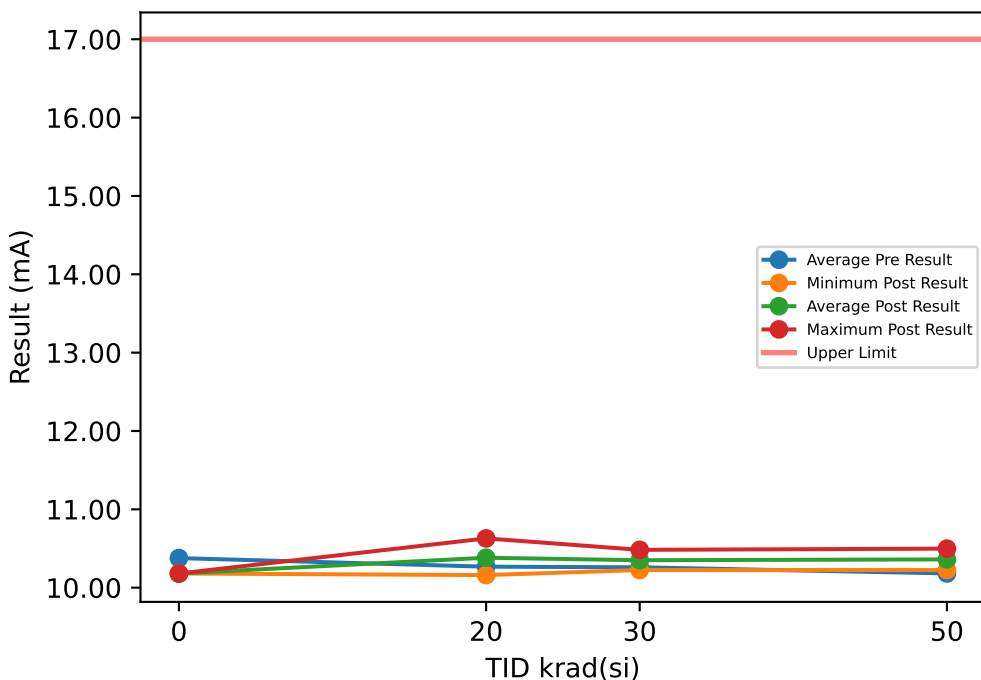


Test Statistics (mA)

| 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 | 5.5284 | 5.5284 | 5.5284 | | 5.8146 | 5.8146 | 5.8146 | | 0.2862 | 0.2862 | 0.2862 | |
| 20 | 5.4853 | 5.5791 | 5.7294 | 0.091609 | 5.4885 | 5.6206 | 5.7355 | 0.08085 | -0.0087 | 0.04151 | 0.1174 | 0.035772 |
| 30 | 5.5139 | 5.5847 | 5.6849 | 0.058679 | 5.5866 | 5.6597 | 5.7193 | 0.046213 | 0.0075 | 0.07495 | 0.1778 | 0.048788 |
| 50 | 5.4059 | 5.6036 | 5.7353 | 0.11019 | 5.5681 | 5.742 | 5.8724 | 0.089744 | -0.0427 | 0.13841 | 0.387 | 0.11331 |

Device Test: 37.18 I_OP_LS_IIM_2MHZ(_Iop LS VIN IIM Interlock 2MHz VIN_14V)

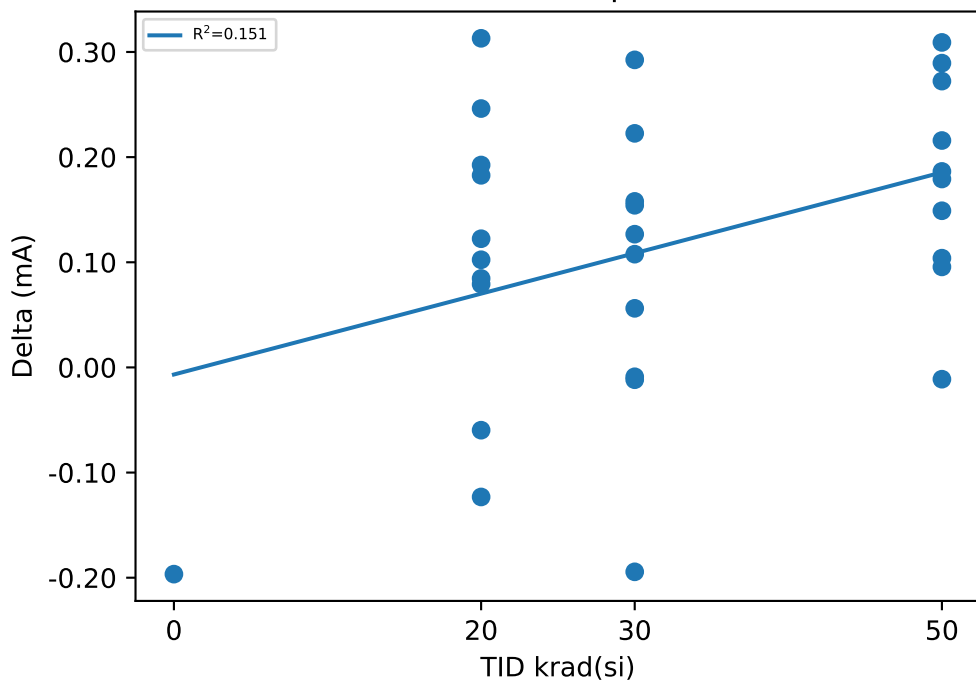
TID vs Result Stats



Test Results (Upper Limit = 17.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.377 | 10.181 | -0.1966 |
| 321 | 20 | HDR unbiased | 10.229 | 10.421 | 0.1925 |
| 322 | 20 | HDR unbiased | 10.082 | 10.265 | 0.1827 |
| 323 | 20 | HDR unbiased | 10.162 | 10.246 | 0.0846 |
| 324 | 20 | HDR unbiased | 10.081 | 10.161 | 0.0792 |
| 325 | 20 | HDR unbiased | 10.299 | 10.239 | -0.0597 |
| 331 | 30 | HDR unbiased | 10.362 | 10.35 | -0.0117 |
| 332 | 30 | HDR unbiased | 10.244 | 10.236 | -0.0089 |
| 333 | 30 | HDR unbiased | 10.356 | 10.483 | 0.1267 |
| 334 | 30 | HDR unbiased | 10.234 | 10.342 | 0.1077 |
| 335 | 30 | HDR unbiased | 10.191 | 10.345 | 0.1542 |
| 351 | 50 | HDR unbiased | 10.236 | 10.225 | -0.0112 |
| 352 | 50 | HDR unbiased | 10.078 | 10.351 | 0.2723 |
| 353 | 50 | HDR unbiased | 10.034 | 10.343 | 0.3091 |
| 354 | 50 | HDR unbiased | 10.092 | 10.271 | 0.1792 |
| 355 | 50 | HDR unbiased | 10.105 | 10.254 | 0.149 |
| 521 | 20 | HDR biased | 10.383 | 10.629 | 0.2462 |
| 522 | 20 | HDR biased | 10.291 | 10.394 | 0.1024 |
| 523 | 20 | HDR biased | 10.387 | 10.509 | 0.1224 |
| 524 | 20 | HDR biased | 10.489 | 10.366 | -0.1232 |
| 525 | 20 | HDR biased | 10.277 | 10.589 | 0.313 |
| 531 | 30 | HDR biased | 10.22 | 10.378 | 0.1579 |
| 532 | 30 | HDR biased | 10.419 | 10.225 | -0.1944 |
| 533 | 30 | HDR biased | 10.091 | 10.384 | 0.2925 |
| 534 | 30 | HDR biased | 10.216 | 10.438 | 0.2226 |
| 535 | 30 | HDR biased | 10.266 | 10.322 | 0.0562 |
| 551 | 50 | HDR biased | 10.188 | 10.404 | 0.2158 |
| 552 | 50 | HDR biased | 10.403 | 10.498 | 0.0956 |
| 553 | 50 | HDR biased | 10.162 | 10.451 | 0.2894 |
| 554 | 50 | HDR biased | 10.335 | 10.439 | 0.1039 |
| 555 | 50 | HDR biased | 10.185 | 10.372 | 0.1864 |

TID vs Post - Pre Exposure Delta

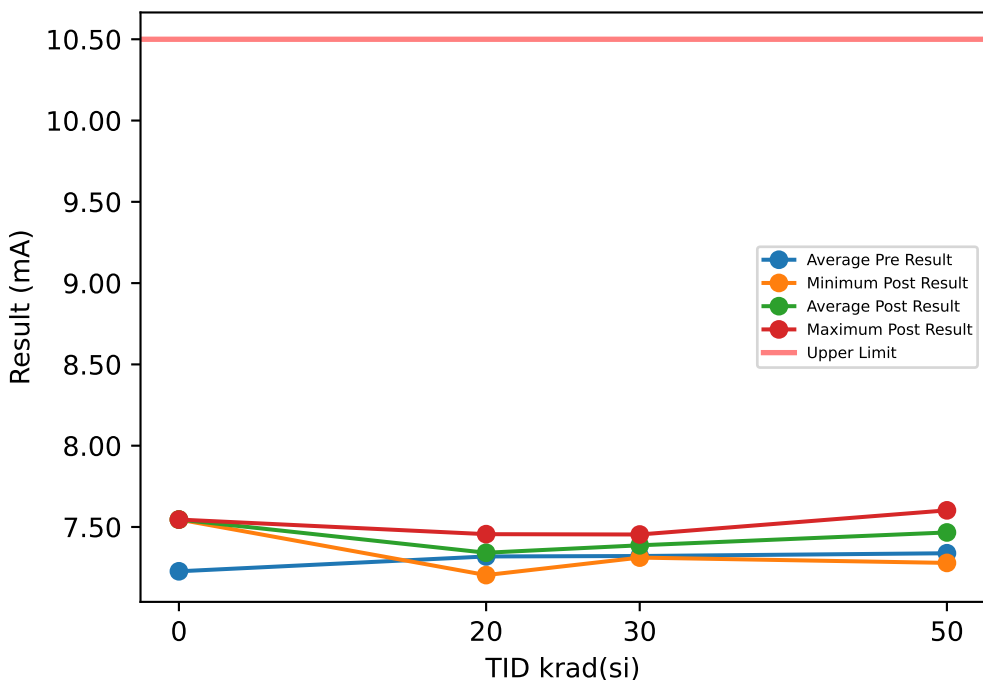


Test Statistics (mA)

| 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 | 10.377 | 10.377 | 10.377 | | 10.181 | 10.181 | 10.181 | | -0.1966 | -0.1966 | -0.1966 | |
| 20 | 10.081 | 10.268 | 10.489 | 0.13331 | 10.161 | 10.382 | 10.629 | 0.15768 | -0.1232 | 0.11401 | 0.313 | 0.13194 |
| 30 | 10.091 | 10.26 | 10.419 | 0.095898 | 10.225 | 10.35 | 10.483 | 0.079514 | -0.1944 | 0.09028 | 0.2925 | 0.13789 |
| 50 | 10.034 | 10.182 | 10.403 | 0.11656 | 10.225 | 10.361 | 10.498 | 0.090355 | -0.0112 | 0.17895 | 0.3091 | 0.099387 |

Device Test: 37.19 I_OP_HS_IIM_2MHZ(_Iop HS BOOT IIM Interlock 2MHz VIN_14V)

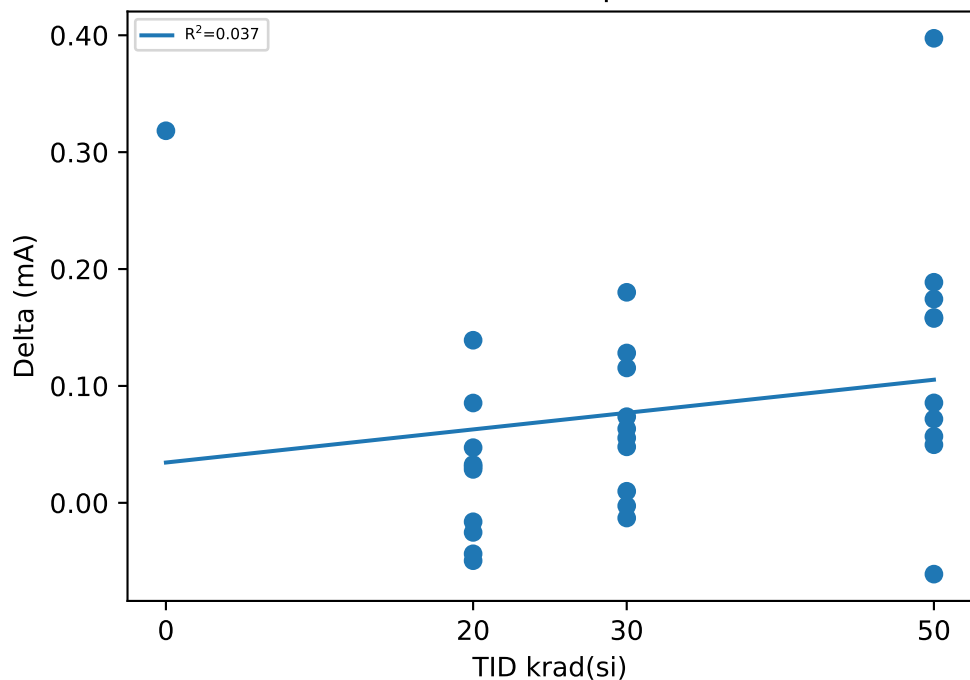
TID vs Result Stats



Test Results (Upper Limit = 10.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.2274 | 7.5457 | 0.3183 |
| 321 | 20 | HDR unbiased | 7.2536 | 7.2041 | -0.0495 |
| 322 | 20 | HDR unbiased | 7.4994 | 7.4558 | -0.0436 |
| 323 | 20 | HDR unbiased | 7.4219 | 7.4505 | 0.0286 |
| 324 | 20 | HDR unbiased | 7.3235 | 7.3562 | 0.0327 |
| 325 | 20 | HDR unbiased | 7.2021 | 7.2875 | 0.0854 |
| 331 | 30 | HDR unbiased | 7.246 | 7.3614 | 0.1154 |
| 332 | 30 | HDR unbiased | 7.293 | 7.4212 | 0.1282 |
| 333 | 30 | HDR unbiased | 7.2483 | 7.3117 | 0.0634 |
| 334 | 30 | HDR unbiased | 7.4439 | 7.4538 | 0.0099 |
| 335 | 30 | HDR unbiased | 7.3353 | 7.3832 | 0.0479 |
| 351 | 50 | HDR unbiased | 7.2049 | 7.6023 | 0.3974 |
| 352 | 50 | HDR unbiased | 7.3961 | 7.4458 | 0.0497 |
| 353 | 50 | HDR unbiased | 7.4895 | 7.4285 | -0.061 |
| 354 | 50 | HDR unbiased | 7.3889 | 7.4458 | 0.0569 |
| 355 | 50 | HDR unbiased | 7.3528 | 7.5105 | 0.1577 |
| 521 | 20 | HDR biased | 7.4111 | 7.3858 | -0.0253 |
| 522 | 20 | HDR biased | 7.3631 | 7.394 | 0.0309 |
| 523 | 20 | HDR biased | 7.2226 | 7.2698 | 0.0472 |
| 524 | 20 | HDR biased | 7.1946 | 7.3337 | 0.1391 |
| 525 | 20 | HDR biased | 7.2946 | 7.2784 | -0.0162 |
| 531 | 30 | HDR biased | 7.3246 | 7.3983 | 0.0737 |
| 532 | 30 | HDR biased | 7.2254 | 7.4055 | 0.1801 |
| 533 | 30 | HDR biased | 7.3227 | 7.3201 | -0.0026 |
| 534 | 30 | HDR biased | 7.4362 | 7.4232 | -0.013 |
| 535 | 30 | HDR biased | 7.3388 | 7.3943 | 0.0555 |
| 551 | 50 | HDR biased | 7.4604 | 7.5321 | 0.0717 |
| 552 | 50 | HDR biased | 7.3343 | 7.5086 | 0.1743 |
| 553 | 50 | HDR biased | 7.4388 | 7.5243 | 0.0855 |
| 554 | 50 | HDR biased | 7.1981 | 7.3868 | 0.1887 |
| 555 | 50 | HDR biased | 7.1204 | 7.279 | 0.1586 |

TID vs Post - Pre Exposure Delta

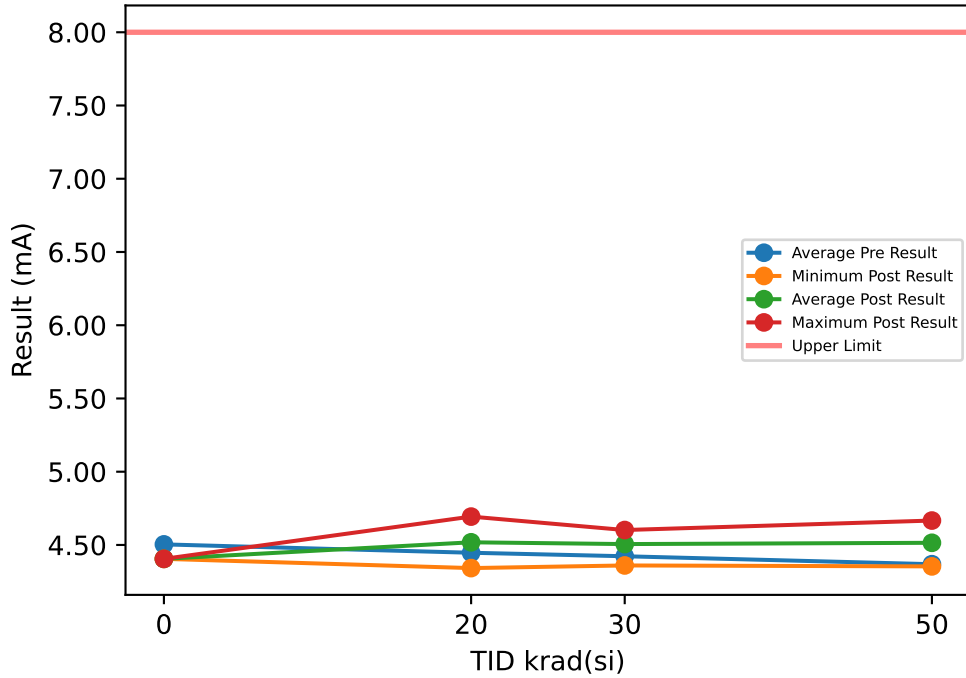


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.2274 | 7.2274 | 7.2274 | | 7.5457 | 7.5457 | 7.5457 | | 0.3183 | 0.3183 | 0.3183 | |
| 20 | 7.1946 | 7.3186 | 7.4994 | 0.10375 | 7.2041 | 7.3416 | 7.4558 | 0.082232 | -0.0495 | 0.02293 | 0.1391 | 0.059356 |
| 30 | 7.2254 | 7.3214 | 7.4439 | 0.074345 | 7.3117 | 7.3873 | 7.4538 | 0.045068 | -0.013 | 0.06585 | 0.1801 | 0.061397 |
| 50 | 7.1204 | 7.3384 | 7.4895 | 0.12424 | 7.279 | 7.4664 | 7.6023 | 0.090433 | -0.061 | 0.12795 | 0.3974 | 0.12115 |

Device Test: 37.2 IQ_LS_IIM(Iq LS VIN IIM Interlock VIN_14V)

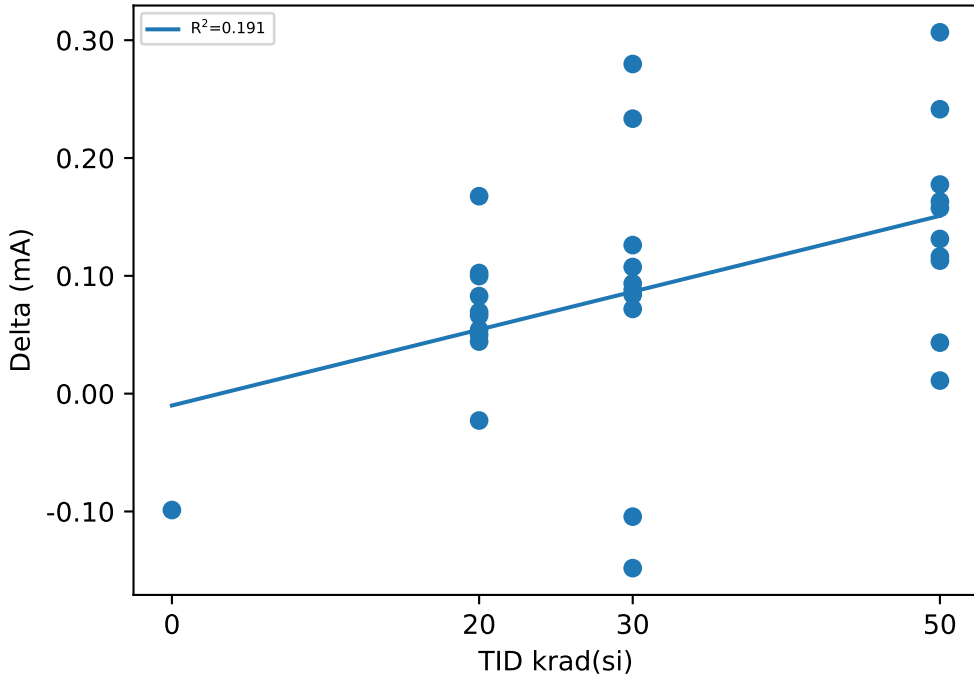
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.5039 | 4.4051 | -0.0988 |
| 321 | 20 | HDR unbiased | 4.4419 | 4.4962 | 0.0543 |
| 322 | 20 | HDR unbiased | 4.2979 | 4.3421 | 0.0442 |
| 323 | 20 | HDR unbiased | 4.2736 | 4.3429 | 0.0693 |
| 324 | 20 | HDR unbiased | 4.3512 | 4.4175 | 0.0663 |
| 325 | 20 | HDR unbiased | 4.3958 | 4.4456 | 0.0498 |
| 331 | 30 | HDR unbiased | 4.4577 | 4.5457 | 0.088 |
| 332 | 30 | HDR unbiased | 4.3246 | 4.4181 | 0.0935 |
| 333 | 30 | HDR unbiased | 4.4565 | 4.564 | 0.1075 |
| 334 | 30 | HDR unbiased | 4.4553 | 4.5392 | 0.0839 |
| 335 | 30 | HDR unbiased | 4.4161 | 4.5422 | 0.1261 |
| 351 | 50 | HDR unbiased | 4.3795 | 4.4228 | 0.0433 |
| 352 | 50 | HDR unbiased | 4.3546 | 4.471 | 0.1164 |
| 353 | 50 | HDR unbiased | 4.2699 | 4.5766 | 0.3067 |
| 354 | 50 | HDR unbiased | 4.231 | 4.4724 | 0.2414 |
| 355 | 50 | HDR unbiased | 4.3426 | 4.3537 | 0.0111 |
| 521 | 20 | HDR biased | 4.5912 | 4.6936 | 0.1024 |
| 522 | 20 | HDR biased | 4.5157 | 4.5985 | 0.0828 |
| 523 | 20 | HDR biased | 4.4798 | 4.5796 | 0.0998 |
| 524 | 20 | HDR biased | 4.6055 | 4.5827 | -0.0228 |
| 525 | 20 | HDR biased | 4.5151 | 4.6827 | 0.1676 |
| 531 | 30 | HDR biased | 4.3221 | 4.6019 | 0.2798 |
| 532 | 30 | HDR biased | 4.5082 | 4.3601 | -0.1481 |
| 533 | 30 | HDR biased | 4.343 | 4.5764 | 0.2334 |
| 534 | 30 | HDR biased | 4.4392 | 4.5111 | 0.0719 |
| 535 | 30 | HDR biased | 4.5063 | 4.4019 | -0.1044 |
| 551 | 50 | HDR biased | 4.4051 | 4.5626 | 0.1575 |
| 552 | 50 | HDR biased | 4.5035 | 4.6666 | 0.1631 |
| 553 | 50 | HDR biased | 4.4029 | 4.5158 | 0.1129 |
| 554 | 50 | HDR biased | 4.4624 | 4.6399 | 0.1775 |
| 555 | 50 | HDR biased | 4.3344 | 4.4657 | 0.1313 |

TID vs Post - Pre Exposure Delta

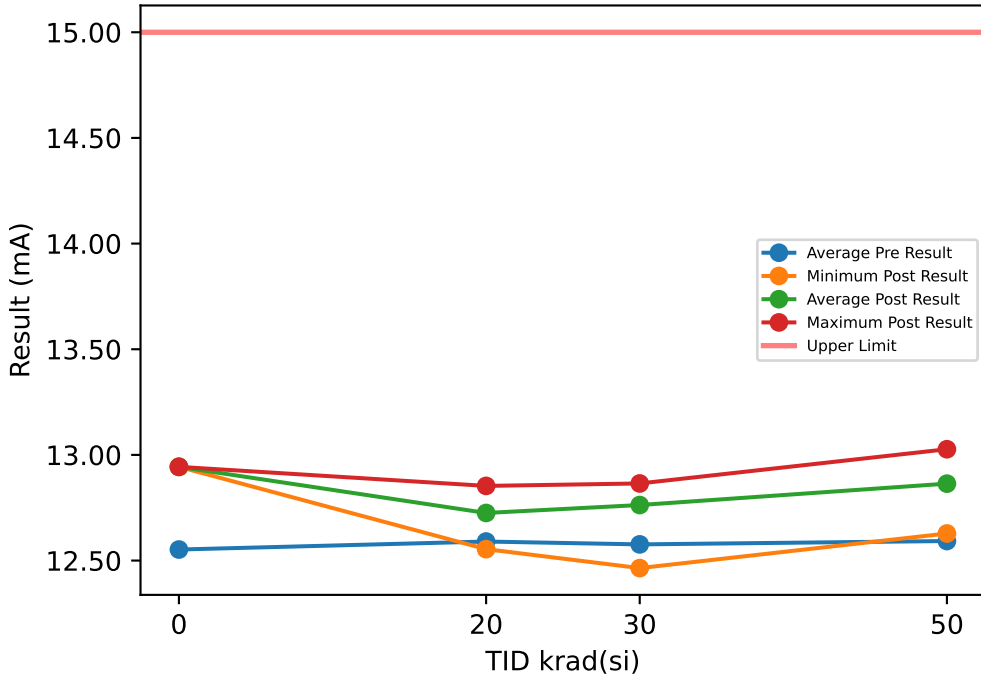


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.5039 | 4.5039 | 4.5039 | | 4.4051 | 4.4051 | 4.4051 | | -0.0988 | -0.0988 | -0.0988 | |
| 20 | 4.2736 | 4.4468 | 4.6055 | 0.1157 | 4.3421 | 4.5181 | 4.6936 | 0.12903 | -0.0228 | 0.07137 | 0.1676 | 0.048939 |
| 30 | 4.3221 | 4.4229 | 4.5082 | 0.070032 | 4.3601 | 4.5061 | 4.6019 | 0.082584 | -0.1481 | 0.08316 | 0.2798 | 0.13021 |
| 50 | 4.231 | 4.3686 | 4.5035 | 0.081881 | 4.3537 | 4.5147 | 4.6666 | 0.097378 | 0.0111 | 0.14612 | 0.3067 | 0.086458 |

Device Test: 37.21 I_OP_HS_IIM_5MHZ(_Iop HS BOOT IIM Interlock 5MHz VIN_14V)

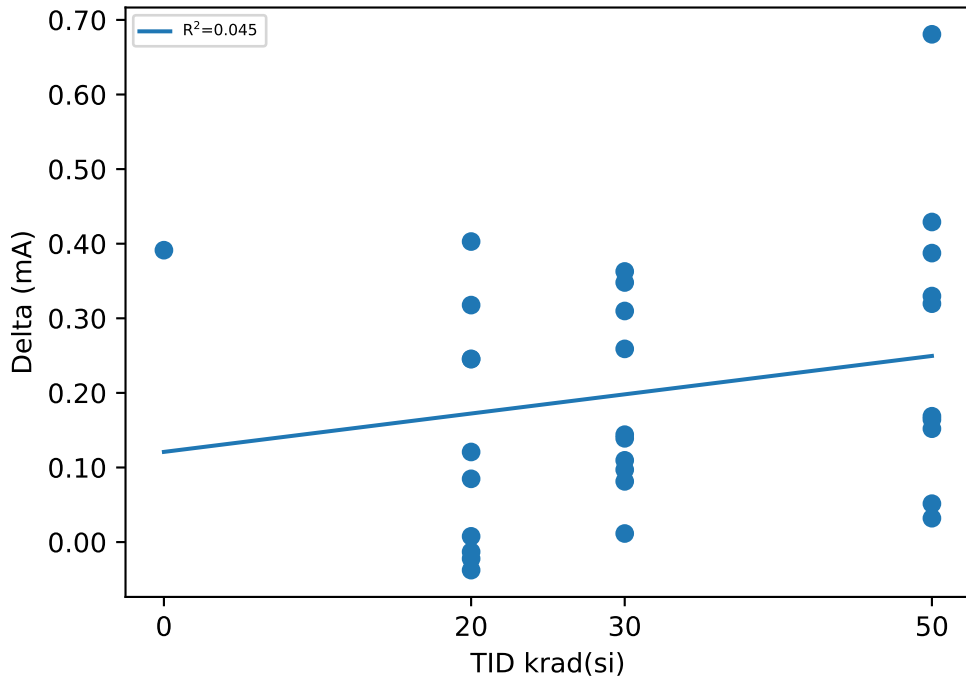
TID vs Result Stats



Test Results (Upper Limit = 15.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 12.552 | 12.944 | 0.3913 |
| 321 | 20 | HDR unbiased | 12.567 | 12.554 | -0.013 |
| 322 | 20 | HDR unbiased | 12.891 | 12.853 | -0.0376 |
| 323 | 20 | HDR unbiased | 12.593 | 12.839 | 0.2456 |
| 324 | 20 | HDR unbiased | 12.708 | 12.792 | 0.0848 |
| 325 | 20 | HDR unbiased | 12.392 | 12.71 | 0.3177 |
| 331 | 30 | HDR unbiased | 12.423 | 12.771 | 0.348 |
| 332 | 30 | HDR unbiased | 12.499 | 12.862 | 0.3628 |
| 333 | 30 | HDR unbiased | 12.445 | 12.704 | 0.259 |
| 334 | 30 | HDR unbiased | 12.768 | 12.865 | 0.097 |
| 335 | 30 | HDR unbiased | 12.738 | 12.82 | 0.0814 |
| 351 | 50 | HDR unbiased | 12.346 | 13.027 | 0.6807 |
| 352 | 50 | HDR unbiased | 12.756 | 12.807 | 0.0515 |
| 353 | 50 | HDR unbiased | 12.815 | 12.847 | 0.032 |
| 354 | 50 | HDR unbiased | 12.568 | 12.898 | 0.3298 |
| 355 | 50 | HDR unbiased | 12.734 | 12.902 | 0.1687 |
| 521 | 20 | HDR biased | 12.748 | 12.756 | 0.0077 |
| 522 | 20 | HDR biased | 12.692 | 12.813 | 0.1208 |
| 523 | 20 | HDR biased | 12.334 | 12.579 | 0.2452 |
| 524 | 20 | HDR biased | 12.332 | 12.735 | 0.4029 |
| 525 | 20 | HDR biased | 12.643 | 12.621 | -0.0222 |
| 531 | 30 | HDR biased | 12.513 | 12.823 | 0.3098 |
| 532 | 30 | HDR biased | 12.355 | 12.464 | 0.1096 |
| 533 | 30 | HDR biased | 12.588 | 12.727 | 0.1391 |
| 534 | 30 | HDR biased | 12.774 | 12.786 | 0.0115 |
| 535 | 30 | HDR biased | 12.662 | 12.806 | 0.144 |
| 551 | 50 | HDR biased | 12.767 | 12.931 | 0.1644 |
| 552 | 50 | HDR biased | 12.479 | 12.908 | 0.4291 |
| 553 | 50 | HDR biased | 12.742 | 12.894 | 0.152 |
| 554 | 50 | HDR biased | 12.41 | 12.798 | 0.3874 |
| 555 | 50 | HDR biased | 12.309 | 12.628 | 0.3196 |

TID vs Post - Pre Exposure Delta

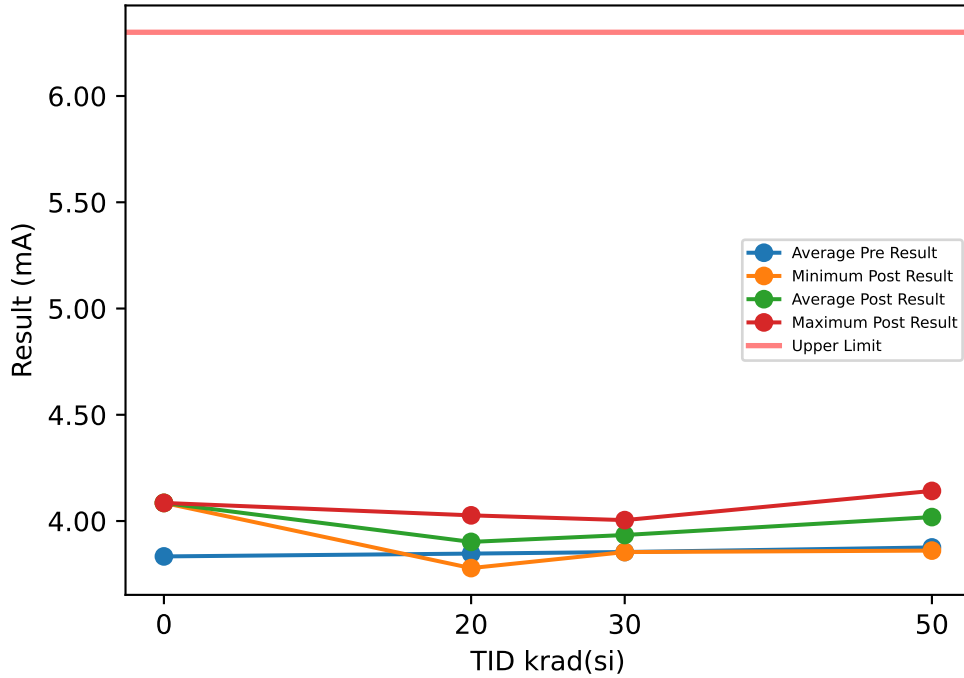


Test Statistics (mA)

| 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 | 12.552 | 12.552 | 12.552 | | 12.944 | 12.944 | 12.944 | | 0.3913 | 0.3913 | 0.3913 | |
| 20 | 12.332 | 12.59 | 12.891 | 0.18692 | 12.554 | 12.725 | 12.853 | 0.10766 | -0.0376 | 0.13519 | 0.4029 | 0.15806 |
| 30 | 12.355 | 12.577 | 12.774 | 0.15257 | 12.464 | 12.763 | 12.865 | 0.1171 | 0.0115 | 0.18622 | 0.3628 | 0.1235 |
| 50 | 12.309 | 12.592 | 12.815 | 0.19349 | 12.628 | 12.864 | 13.027 | 0.10541 | 0.032 | 0.27152 | 0.6807 | 0.19819 |

Device Test: 37.3 IQ_HS_IIM(Iq HS BOOT IIM Interlock VIN_14V)

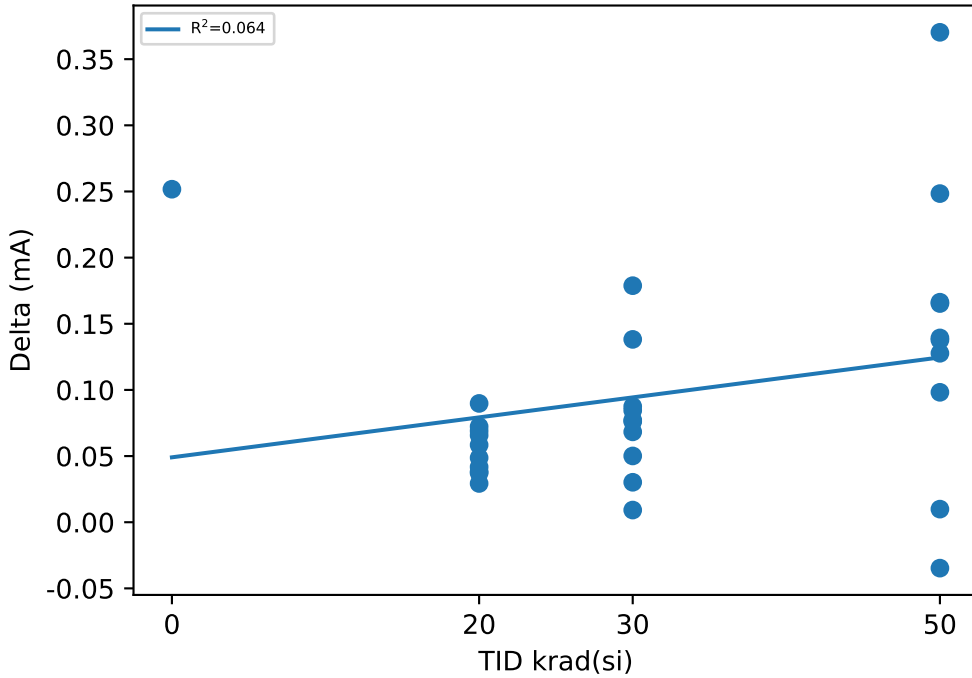
TID vs Result Stats



Test Results (Upper Limit = 6.3 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.8335 | 4.0852 | 0.2517 |
| 321 | 20 | HDR unbiased | 3.7493 | 3.7786 | 0.0293 |
| 322 | 20 | HDR unbiased | 3.9698 | 4.008 | 0.0382 |
| 323 | 20 | HDR unbiased | 3.9896 | 4.0268 | 0.0372 |
| 324 | 20 | HDR unbiased | 3.8036 | 3.8726 | 0.069 |
| 325 | 20 | HDR unbiased | 3.7802 | 3.822 | 0.0418 |
| 331 | 30 | HDR unbiased | 3.8224 | 3.8985 | 0.0761 |
| 332 | 30 | HDR unbiased | 3.8499 | 3.9344 | 0.0845 |
| 333 | 30 | HDR unbiased | 3.8029 | 3.8712 | 0.0683 |
| 334 | 30 | HDR unbiased | 3.9355 | 3.9856 | 0.0501 |
| 335 | 30 | HDR unbiased | 3.829 | 3.9165 | 0.0875 |
| 351 | 50 | HDR unbiased | 3.7714 | 4.1417 | 0.3703 |
| 352 | 50 | HDR unbiased | 3.8904 | 4.0297 | 0.1393 |
| 353 | 50 | HDR unbiased | 3.9925 | 3.9578 | -0.0347 |
| 354 | 50 | HDR unbiased | 3.958 | 3.9679 | 0.0099 |
| 355 | 50 | HDR unbiased | 3.8375 | 4.0859 | 0.2484 |
| 521 | 20 | HDR biased | 3.9252 | 3.9836 | 0.0584 |
| 522 | 20 | HDR biased | 3.8592 | 3.9249 | 0.0657 |
| 523 | 20 | HDR biased | 3.809 | 3.8577 | 0.0487 |
| 524 | 20 | HDR biased | 3.7827 | 3.8725 | 0.0898 |
| 525 | 20 | HDR biased | 3.7992 | 3.8715 | 0.0723 |
| 531 | 30 | HDR biased | 3.8949 | 3.9251 | 0.0302 |
| 532 | 30 | HDR biased | 3.8073 | 3.9861 | 0.1788 |
| 533 | 30 | HDR biased | 3.8447 | 3.8539 | 0.0092 |
| 534 | 30 | HDR biased | 3.9271 | 4.0043 | 0.0772 |
| 535 | 30 | HDR biased | 3.8289 | 3.9671 | 0.1382 |
| 551 | 50 | HDR biased | 3.9693 | 4.0675 | 0.0982 |
| 552 | 50 | HDR biased | 3.917 | 4.0447 | 0.1277 |
| 553 | 50 | HDR biased | 3.9461 | 4.1124 | 0.1663 |
| 554 | 50 | HDR biased | 3.7797 | 3.9174 | 0.1377 |
| 555 | 50 | HDR biased | 3.6956 | 3.8609 | 0.1653 |

TID vs Post - Pre Exposure Delta

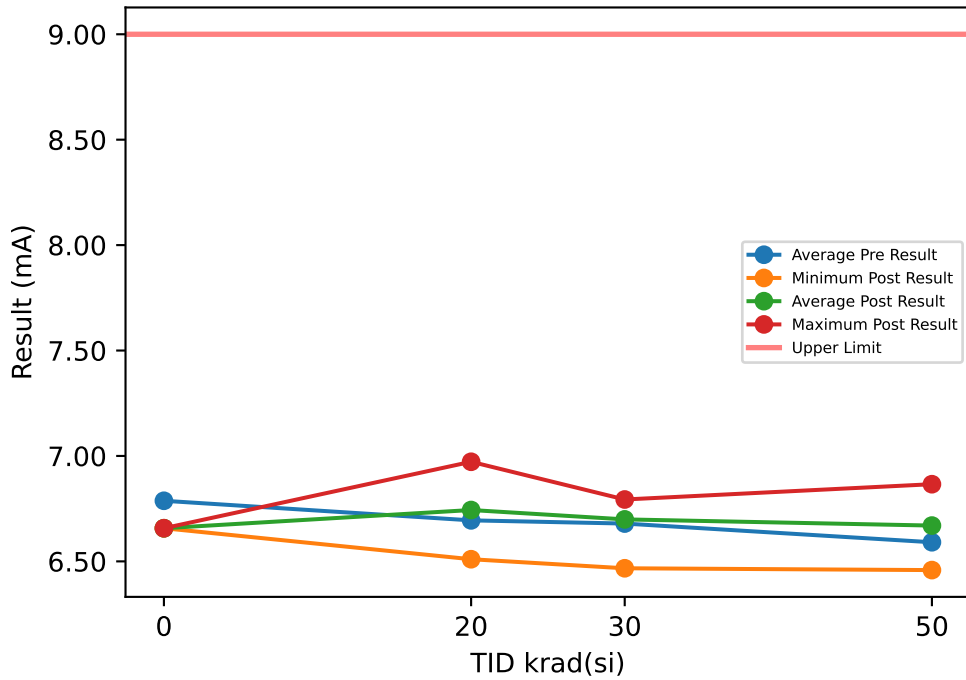


Test Statistics (mA)

| 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 | 3.8335 | 3.8335 | 3.8335 | | 4.0852 | 4.0852 | 4.0852 | | 0.2517 | 0.2517 | 0.2517 | |
| 20 | 3.7493 | 3.8468 | 3.9896 | 0.085266 | 3.7786 | 3.9018 | 4.0268 | 0.081819 | 0.0293 | 0.05504 | 0.0898 | 0.019166 |
| 30 | 3.8029 | 3.8543 | 3.9355 | 0.048082 | 3.8539 | 3.9343 | 4.0043 | 0.051012 | 0.0092 | 0.08001 | 0.1788 | 0.049184 |
| 50 | 3.6956 | 3.8758 | 3.9925 | 0.10002 | 3.8609 | 4.0186 | 4.1417 | 0.090096 | -0.0347 | 0.14284 | 0.3703 | 0.11323 |

Device Test: 37.6 I_OP_LS_PWM_500KHZ(_lop LS VIN PWM 500kHz VIN_14V)

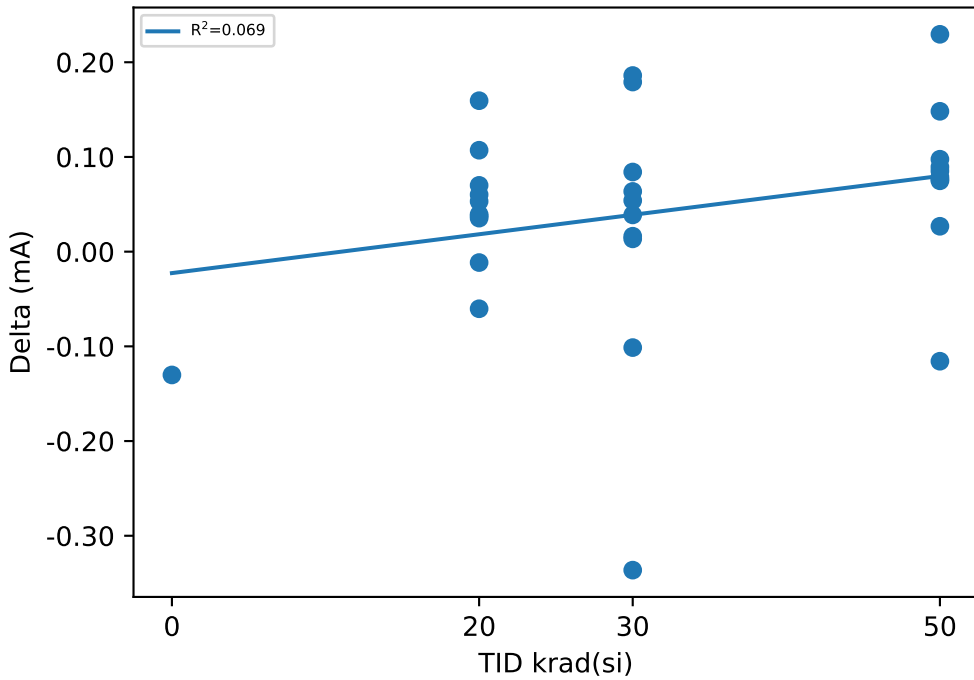
TID vs Result Stats



Test Results (Upper Limit = 9.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.7874 | 6.6572 | -0.1302 |
| 321 | 20 | HDR unbiased | 6.656 | 6.7091 | 0.0531 |
| 322 | 20 | HDR unbiased | 6.5103 | 6.5496 | 0.0393 |
| 323 | 20 | HDR unbiased | 6.4985 | 6.5339 | 0.0354 |
| 324 | 20 | HDR unbiased | 6.4726 | 6.5102 | 0.0376 |
| 325 | 20 | HDR unbiased | 6.7033 | 6.6918 | -0.0115 |
| 331 | 30 | HDR unbiased | 6.7218 | 6.7353 | 0.0135 |
| 332 | 30 | HDR unbiased | 6.6545 | 6.6708 | 0.0163 |
| 333 | 30 | HDR unbiased | 6.6376 | 6.7012 | 0.0636 |
| 334 | 30 | HDR unbiased | 6.6784 | 6.7172 | 0.0388 |
| 335 | 30 | HDR unbiased | 6.6209 | 6.705 | 0.0841 |
| 351 | 50 | HDR unbiased | 6.5618 | 6.5886 | 0.0268 |
| 352 | 50 | HDR unbiased | 6.5039 | 6.5787 | 0.0748 |
| 353 | 50 | HDR unbiased | 6.5088 | 6.657 | 0.1482 |
| 354 | 50 | HDR unbiased | 6.4026 | 6.6321 | 0.2295 |
| 355 | 50 | HDR unbiased | 6.5744 | 6.4587 | -0.1157 |
| 521 | 20 | HDR biased | 6.8653 | 6.9724 | 0.1071 |
| 522 | 20 | HDR biased | 6.7637 | 6.8239 | 0.0602 |
| 523 | 20 | HDR biased | 6.8101 | 6.8801 | 0.07 |
| 524 | 20 | HDR biased | 6.8857 | 6.8254 | -0.0603 |
| 525 | 20 | HDR biased | 6.7799 | 6.9393 | 0.1594 |
| 531 | 30 | HDR biased | 6.6073 | 6.7933 | 0.186 |
| 532 | 30 | HDR biased | 6.8036 | 6.4673 | -0.3363 |
| 533 | 30 | HDR biased | 6.6144 | 6.7935 | 0.1791 |
| 534 | 30 | HDR biased | 6.7101 | 6.7641 | 0.054 |
| 535 | 30 | HDR biased | 6.7452 | 6.6439 | -0.1013 |
| 551 | 50 | HDR biased | 6.6963 | 6.7939 | 0.0976 |
| 552 | 50 | HDR biased | 6.7897 | 6.866 | 0.0763 |
| 553 | 50 | HDR biased | 6.63 | 6.7152 | 0.0852 |
| 554 | 50 | HDR biased | 6.6987 | 6.7881 | 0.0894 |
| 555 | 50 | HDR biased | 6.5412 | 6.62 | 0.0788 |

TID vs Post - Pre Exposure Delta

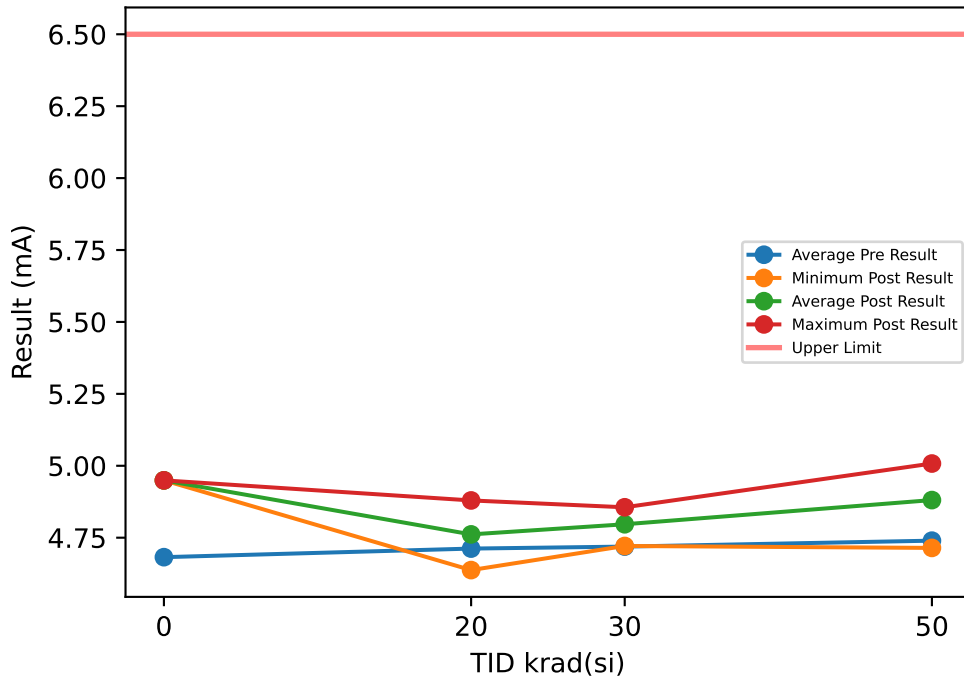


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.7874 | 6.7874 | 6.7874 | | 6.6572 | 6.6572 | 6.6572 | | -0.1302 | -0.1302 | -0.1302 | |
| 20 | 6.4726 | 6.6945 | 6.8857 | 0.15432 | 6.5102 | 6.7436 | 6.9724 | 0.17074 | -0.0603 | 0.04903 | 0.1594 | 0.05978 |
| 30 | 6.6073 | 6.6794 | 6.8036 | 0.06473 | 6.4673 | 6.6992 | 6.7935 | 0.095024 | -0.3363 | 0.01978 | 0.186 | 0.14985 |
| 50 | 6.4026 | 6.5907 | 6.7897 | 0.11408 | 6.4587 | 6.6698 | 6.866 | 0.12178 | -0.1157 | 0.07909 | 0.2295 | 0.087299 |

Device Test: 37.7 I_OP_HS_PWM_500KHZ(_Iop HS BOOT PWM 500kHz VIN_14V)

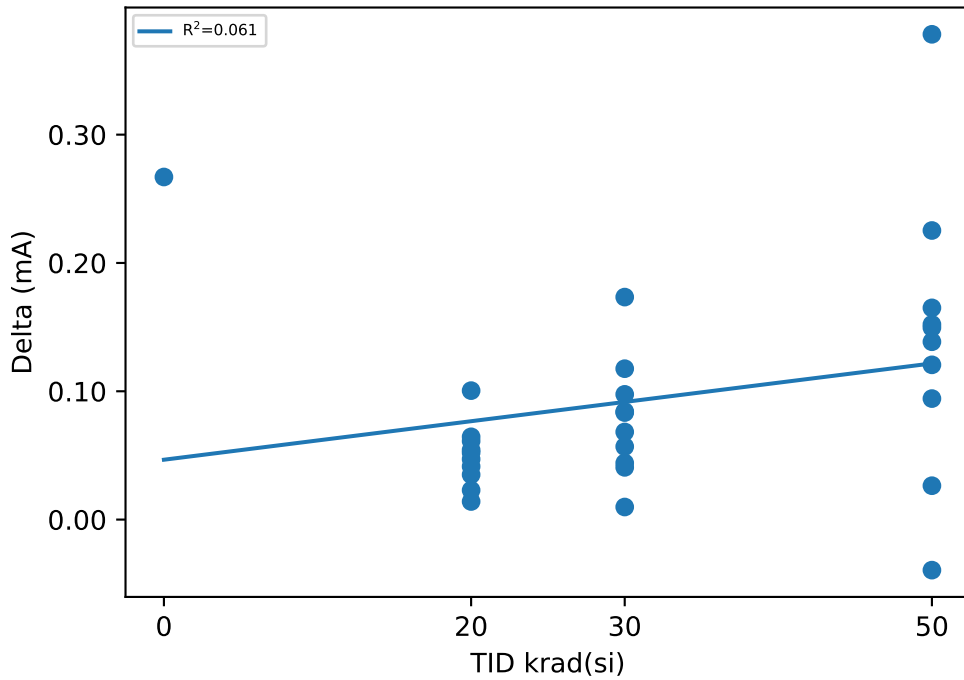
TID vs Result Stats



Test Results (Upper Limit = 6.5 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.6823 | 4.9493 | 0.267 |
| 321 | 20 | HDR unbiased | 4.6233 | 4.6374 | 0.0141 |
| 322 | 20 | HDR unbiased | 4.8467 | 4.8696 | 0.0229 |
| 323 | 20 | HDR unbiased | 4.8445 | 4.8795 | 0.035 |
| 324 | 20 | HDR unbiased | 4.6762 | 4.7407 | 0.0645 |
| 325 | 20 | HDR unbiased | 4.6366 | 4.6888 | 0.0522 |
| 331 | 30 | HDR unbiased | 4.6799 | 4.7641 | 0.0842 |
| 332 | 30 | HDR unbiased | 4.7114 | 4.809 | 0.0976 |
| 333 | 30 | HDR unbiased | 4.6633 | 4.7316 | 0.0683 |
| 334 | 30 | HDR unbiased | 4.8077 | 4.8518 | 0.0441 |
| 335 | 30 | HDR unbiased | 4.7012 | 4.7846 | 0.0834 |
| 351 | 50 | HDR unbiased | 4.6296 | 5.0078 | 0.3782 |
| 352 | 50 | HDR unbiased | 4.7641 | 4.8847 | 0.1206 |
| 353 | 50 | HDR unbiased | 4.8651 | 4.8257 | -0.0394 |
| 354 | 50 | HDR unbiased | 4.813 | 4.8394 | 0.0264 |
| 355 | 50 | HDR unbiased | 4.7155 | 4.9408 | 0.2253 |
| 521 | 20 | HDR biased | 4.7943 | 4.8357 | 0.0414 |
| 522 | 20 | HDR biased | 4.731 | 4.7922 | 0.0612 |
| 523 | 20 | HDR biased | 4.665 | 4.7121 | 0.0471 |
| 524 | 20 | HDR biased | 4.6353 | 4.7358 | 0.1005 |
| 525 | 20 | HDR biased | 4.6686 | 4.7229 | 0.0543 |
| 531 | 30 | HDR biased | 4.7506 | 4.7913 | 0.0407 |
| 532 | 30 | HDR biased | 4.6632 | 4.8366 | 0.1734 |
| 533 | 30 | HDR biased | 4.7114 | 4.7212 | 0.0098 |
| 534 | 30 | HDR biased | 4.7988 | 4.8557 | 0.0569 |
| 535 | 30 | HDR biased | 4.7032 | 4.8208 | 0.1176 |
| 551 | 50 | HDR biased | 4.8401 | 4.9344 | 0.0943 |
| 552 | 50 | HDR biased | 4.7721 | 4.9107 | 0.1386 |
| 553 | 50 | HDR biased | 4.8153 | 4.9649 | 0.1496 |
| 554 | 50 | HDR biased | 4.6325 | 4.7846 | 0.1521 |
| 555 | 50 | HDR biased | 4.5495 | 4.7145 | 0.165 |

TID vs Post - Pre Exposure Delta

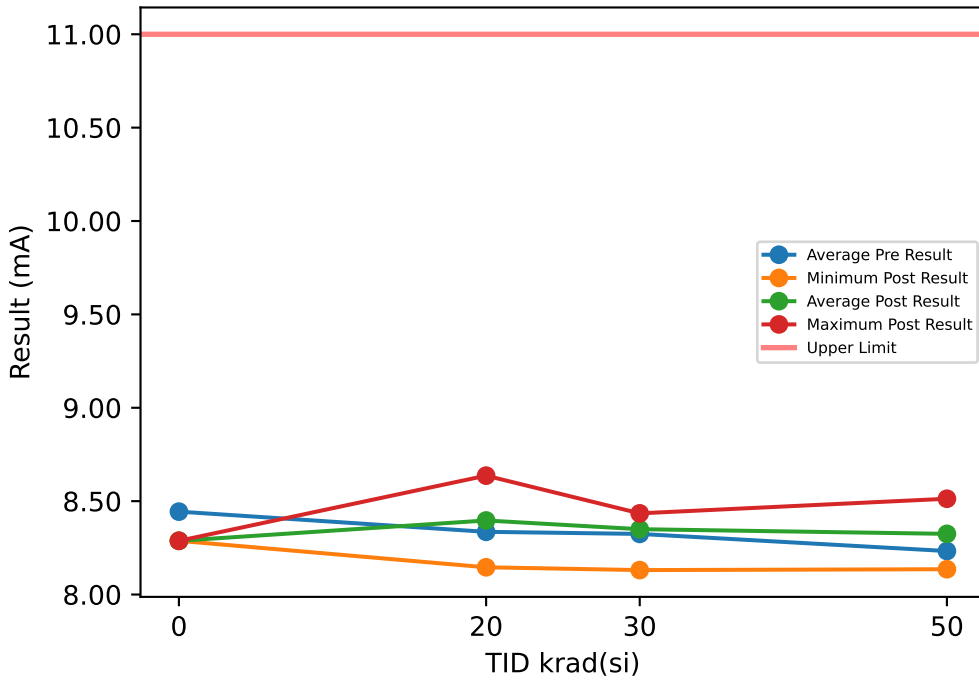


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.6823 | 4.6823 | 4.6823 | | 4.9493 | 4.9493 | 4.9493 | | 0.267 | 0.267 | 0.267 | |
| 20 | 4.6233 | 4.7121 | 4.8467 | 0.086695 | 4.6374 | 4.7615 | 4.8795 | 0.080116 | 0.0141 | 0.04932 | 0.1005 | 0.024118 |
| 30 | 4.6632 | 4.7191 | 4.8077 | 0.051274 | 4.7212 | 4.7967 | 4.8557 | 0.047161 | 0.0098 | 0.0776 | 0.1734 | 0.045766 |
| 50 | 4.5495 | 4.7397 | 4.8651 | 0.10484 | 4.7145 | 4.8808 | 5.0078 | 0.089594 | -0.0394 | 0.14107 | 0.3782 | 0.11177 |

Device Test: 37.8 I_OP_LS_PWM_1MHZ(_lop LS VIN PWM 1MHz VIN_14V)

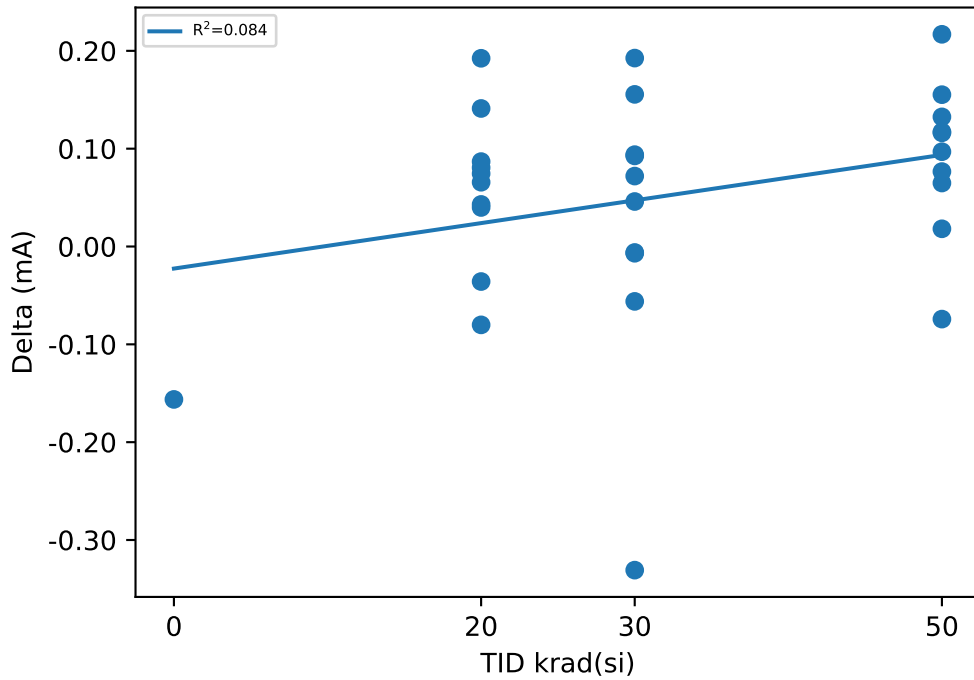
TID vs Result Stats



Test Results (Upper Limit = 11.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.4439 | 8.2876 | -0.1563 |
| 321 | 20 | HDR unbiased | 8.2935 | 8.3803 | 0.0868 |
| 322 | 20 | HDR unbiased | 8.15 | 8.2245 | 0.0745 |
| 323 | 20 | HDR unbiased | 8.1629 | 8.2028 | 0.0399 |
| 324 | 20 | HDR unbiased | 8.1029 | 8.1459 | 0.043 |
| 325 | 20 | HDR unbiased | 8.363 | 8.3272 | -0.0358 |
| 331 | 30 | HDR unbiased | 8.3784 | 8.3715 | -0.0069 |
| 332 | 30 | HDR unbiased | 8.3181 | 8.312 | -0.0061 |
| 333 | 30 | HDR unbiased | 8.305 | 8.377 | 0.072 |
| 334 | 30 | HDR unbiased | 8.3102 | 8.3562 | 0.046 |
| 335 | 30 | HDR unbiased | 8.2568 | 8.3494 | 0.0926 |
| 351 | 50 | HDR unbiased | 8.2162 | 8.2343 | 0.0181 |
| 352 | 50 | HDR unbiased | 8.1298 | 8.247 | 0.1172 |
| 353 | 50 | HDR unbiased | 8.1412 | 8.2964 | 0.1552 |
| 354 | 50 | HDR unbiased | 8.0629 | 8.2798 | 0.2169 |
| 355 | 50 | HDR unbiased | 8.2097 | 8.1355 | -0.0742 |
| 521 | 20 | HDR biased | 8.4955 | 8.6366 | 0.1411 |
| 522 | 20 | HDR biased | 8.3903 | 8.456 | 0.0657 |
| 523 | 20 | HDR biased | 8.4587 | 8.5393 | 0.0806 |
| 524 | 20 | HDR biased | 8.5364 | 8.4563 | -0.0801 |
| 525 | 20 | HDR biased | 8.4047 | 8.5971 | 0.1924 |
| 531 | 30 | HDR biased | 8.2678 | 8.4233 | 0.1555 |
| 532 | 30 | HDR biased | 8.4617 | 8.1309 | -0.3308 |
| 533 | 30 | HDR biased | 8.2381 | 8.4307 | 0.1926 |
| 534 | 30 | HDR biased | 8.3408 | 8.4347 | 0.0939 |
| 535 | 30 | HDR biased | 8.3691 | 8.313 | -0.0561 |
| 551 | 50 | HDR biased | 8.3202 | 8.4364 | 0.1162 |
| 552 | 50 | HDR biased | 8.448 | 8.5129 | 0.0649 |
| 553 | 50 | HDR biased | 8.2535 | 8.386 | 0.1325 |
| 554 | 50 | HDR biased | 8.3543 | 8.4309 | 0.0766 |
| 555 | 50 | HDR biased | 8.193 | 8.2899 | 0.0969 |

TID vs Post - Pre Exposure Delta

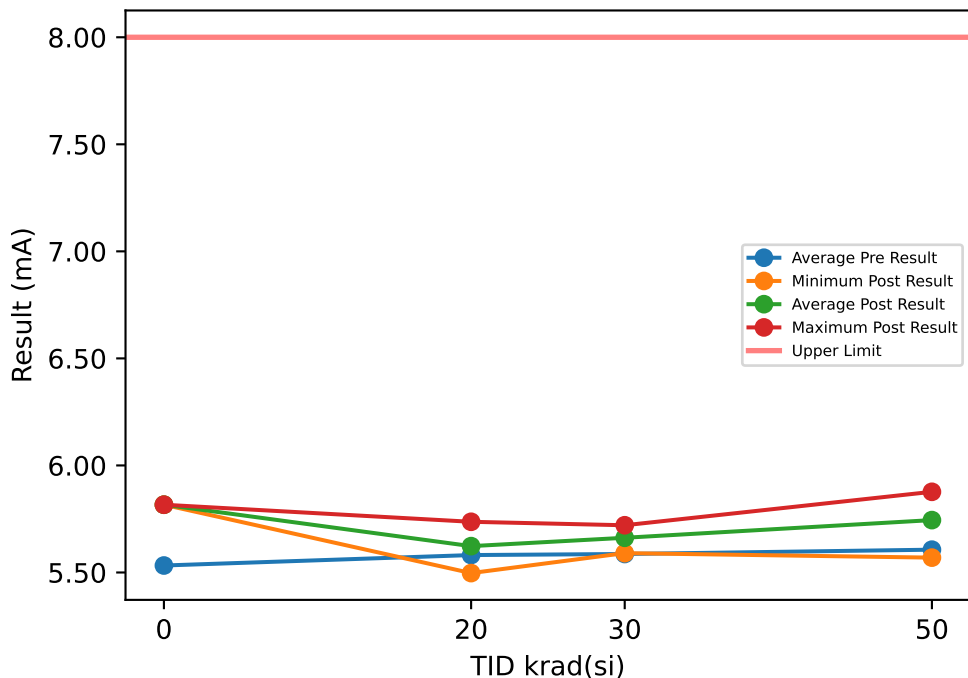


Test Statistics (mA)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 8.4439 | 8.4439 | 8.4439 | | 8.2876 | 8.2876 | 8.2876 | | -0.1563 | -0.1563 | -0.1563 | |
| 20 | 8.1029 | 8.3358 | 8.5364 | 0.15266 | 8.1459 | 8.3966 | 8.6366 | 0.17009 | -0.0801 | 0.06081 | 0.1924 | 0.078163 |
| 30 | 8.2381 | 8.3246 | 8.4617 | 0.06656 | 8.1309 | 8.3499 | 8.4347 | 0.088886 | -0.3308 | 0.02527 | 0.1926 | 0.14615 |
| 50 | 8.0629 | 8.2329 | 8.448 | 0.11518 | 8.1355 | 8.3249 | 8.5129 | 0.114 | -0.0742 | 0.09203 | 0.2169 | 0.079257 |

Device Test: 37.9 I_OP_HS_PWM_1MHZ(_Iop HS BOOT PWM 1MHz VIN_14V)

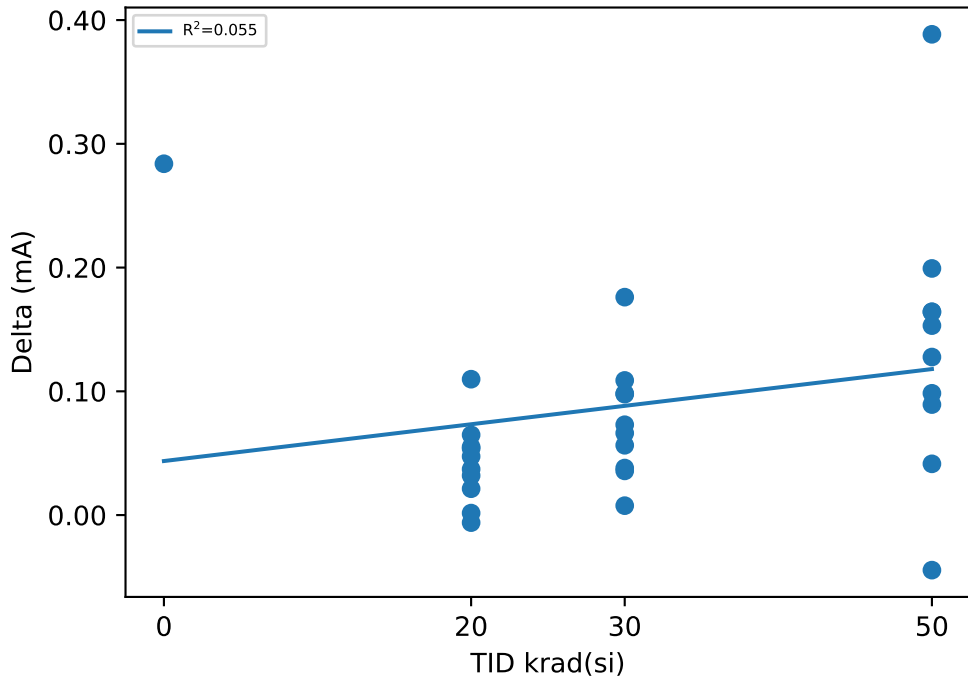
TID vs Result Stats



Test Results (Upper Limit = 8.0 (mA))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.5326 | 5.8165 | 0.2839 |
| 321 | 20 | HDR unbiased | 5.5033 | 5.4972 | -0.0061 |
| 322 | 20 | HDR unbiased | 5.7294 | 5.731 | 0.0016 |
| 323 | 20 | HDR unbiased | 5.7049 | 5.7368 | 0.0319 |
| 324 | 20 | HDR unbiased | 5.5561 | 5.6112 | 0.0551 |
| 325 | 20 | HDR unbiased | 5.4942 | 5.559 | 0.0648 |
| 331 | 30 | HDR unbiased | 5.536 | 5.6337 | 0.0977 |
| 332 | 30 | HDR unbiased | 5.5751 | 5.6839 | 0.1088 |
| 333 | 30 | HDR unbiased | 5.5263 | 5.5925 | 0.0662 |
| 334 | 30 | HDR unbiased | 5.6826 | 5.7206 | 0.038 |
| 335 | 30 | HDR unbiased | 5.5782 | 5.6512 | 0.073 |
| 351 | 50 | HDR unbiased | 5.4883 | 5.8768 | 0.3885 |
| 352 | 50 | HDR unbiased | 5.6436 | 5.742 | 0.0984 |
| 353 | 50 | HDR unbiased | 5.7398 | 5.6953 | -0.0445 |
| 354 | 50 | HDR unbiased | 5.6711 | 5.7125 | 0.0414 |
| 355 | 50 | HDR unbiased | 5.5964 | 5.7957 | 0.1993 |
| 521 | 20 | HDR biased | 5.6679 | 5.6892 | 0.0213 |
| 522 | 20 | HDR biased | 5.6072 | 5.661 | 0.0538 |
| 523 | 20 | HDR biased | 5.5194 | 5.5668 | 0.0474 |
| 524 | 20 | HDR biased | 5.4911 | 5.6009 | 0.1098 |
| 525 | 20 | HDR biased | 5.5406 | 5.5777 | 0.0371 |
| 531 | 30 | HDR biased | 5.607 | 5.6634 | 0.0564 |
| 532 | 30 | HDR biased | 5.5191 | 5.6952 | 0.1761 |
| 533 | 30 | HDR biased | 5.5828 | 5.5904 | 0.0076 |
| 534 | 30 | HDR biased | 5.6749 | 5.7106 | 0.0357 |
| 535 | 30 | HDR biased | 5.5815 | 5.6797 | 0.0982 |
| 551 | 50 | HDR biased | 5.7157 | 5.805 | 0.0893 |
| 552 | 50 | HDR biased | 5.6268 | 5.7799 | 0.1531 |
| 553 | 50 | HDR biased | 5.6916 | 5.8193 | 0.1277 |
| 554 | 50 | HDR biased | 5.4867 | 5.651 | 0.1643 |
| 555 | 50 | HDR biased | 5.4053 | 5.5694 | 0.1641 |

TID vs Post - Pre Exposure Delta

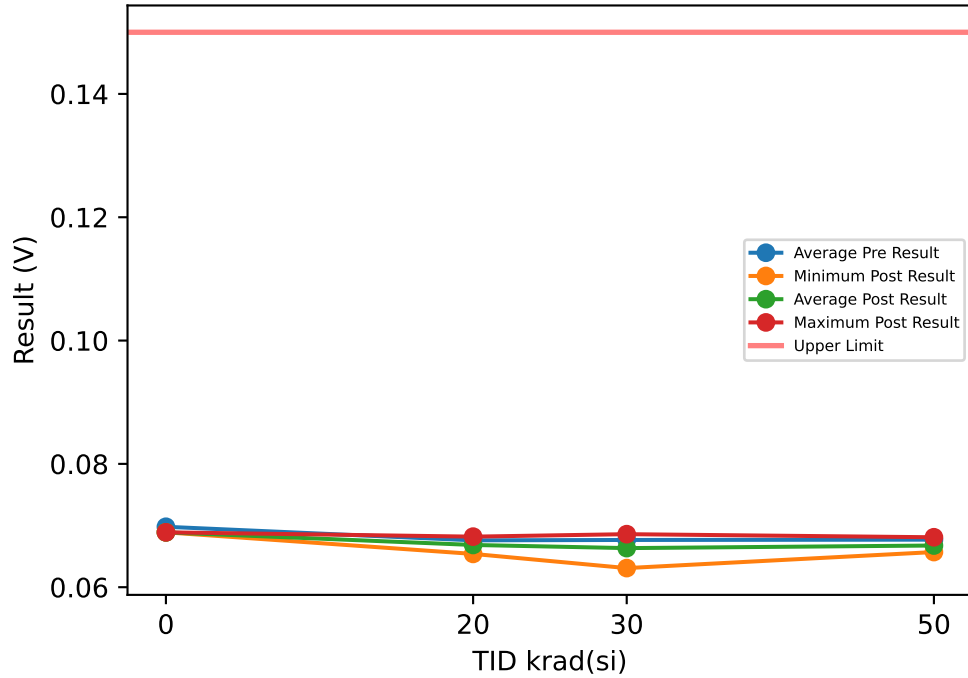


Test Statistics (mA)

| 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 | 5.5326 | 5.5326 | 5.5326 | | 5.8165 | 5.8165 | 5.8165 | | 0.2839 | 0.2839 | 0.2839 | |
| 20 | 5.4911 | 5.5814 | 5.7294 | 0.090253 | 5.4972 | 5.6231 | 5.7368 | 0.079022 | -0.0061 | 0.04167 | 0.1098 | 0.03326 |
| 30 | 5.5191 | 5.5864 | 5.6826 | 0.056198 | 5.5904 | 5.6621 | 5.7206 | 0.045421 | 0.0076 | 0.07577 | 0.1761 | 0.047487 |
| 50 | 5.4053 | 5.6065 | 5.7398 | 0.11146 | 5.5694 | 5.7447 | 5.8768 | 0.090361 | -0.0445 | 0.13816 | 0.3885 | 0.11294 |

Device Test: 45.0 V_OL(_VOL LO VIN_10V)

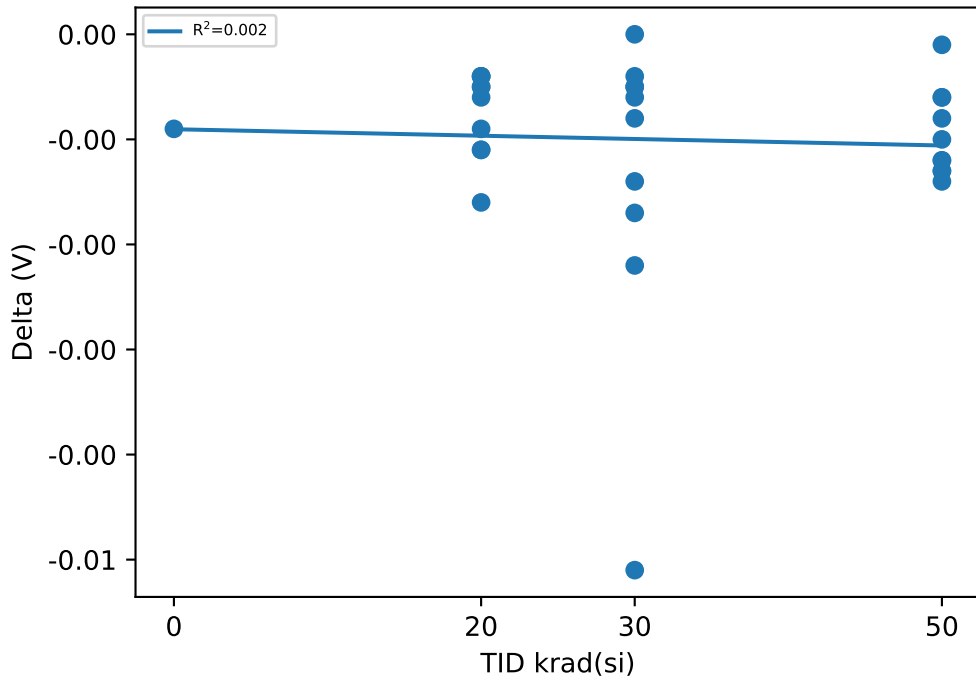
TID vs Result Stats



Test Results (Upper Limit = 0.15 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.0698 | 0.0689 | -0.0009 |
| 321 | 20 | HDR unbiased | 0.0659 | 0.0654 | -0.0005 |
| 322 | 20 | HDR unbiased | 0.0661 | 0.0657 | -0.0004 |
| 323 | 20 | HDR unbiased | 0.0662 | 0.0656 | -0.0006 |
| 324 | 20 | HDR unbiased | 0.0665 | 0.0661 | -0.0004 |
| 325 | 20 | HDR unbiased | 0.0665 | 0.0661 | -0.0004 |
| 331 | 30 | HDR unbiased | 0.0664 | 0.0659 | -0.0005 |
| 332 | 30 | HDR unbiased | 0.0663 | 0.0658 | -0.0005 |
| 333 | 30 | HDR unbiased | 0.0659 | 0.0651 | -0.0008 |
| 334 | 30 | HDR unbiased | 0.066 | 0.0654 | -0.0006 |
| 335 | 30 | HDR unbiased | 0.066 | 0.0656 | -0.0004 |
| 351 | 50 | HDR unbiased | 0.0664 | 0.0658 | -0.0006 |
| 352 | 50 | HDR unbiased | 0.0666 | 0.066 | -0.0006 |
| 353 | 50 | HDR unbiased | 0.0665 | 0.0657 | -0.0008 |
| 354 | 50 | HDR unbiased | 0.0665 | 0.0664 | -0.0001 |
| 355 | 50 | HDR unbiased | 0.0668 | 0.0658 | -0.001 |
| 521 | 20 | HDR biased | 0.0689 | 0.068 | -0.0009 |
| 522 | 20 | HDR biased | 0.0688 | 0.0677 | -0.0011 |
| 523 | 20 | HDR biased | 0.069 | 0.0679 | -0.0011 |
| 524 | 20 | HDR biased | 0.0687 | 0.0682 | -0.0005 |
| 525 | 20 | HDR biased | 0.0694 | 0.0678 | -0.0016 |
| 531 | 30 | HDR biased | 0.0694 | 0.068 | -0.0014 |
| 532 | 30 | HDR biased | 0.0682 | 0.0631 | -0.0051 |
| 533 | 30 | HDR biased | 0.0699 | 0.0677 | -0.0022 |
| 534 | 30 | HDR biased | 0.0699 | 0.0682 | -0.0017 |
| 535 | 30 | HDR biased | 0.0686 | 0.0686 | 0 |
| 551 | 50 | HDR biased | 0.0684 | 0.0672 | -0.0012 |
| 552 | 50 | HDR biased | 0.0684 | 0.0672 | -0.0012 |
| 553 | 50 | HDR biased | 0.069 | 0.0676 | -0.0014 |
| 554 | 50 | HDR biased | 0.0691 | 0.0678 | -0.0013 |
| 555 | 50 | HDR biased | 0.0694 | 0.0681 | -0.0013 |

TID vs Post - Pre Exposure Delta

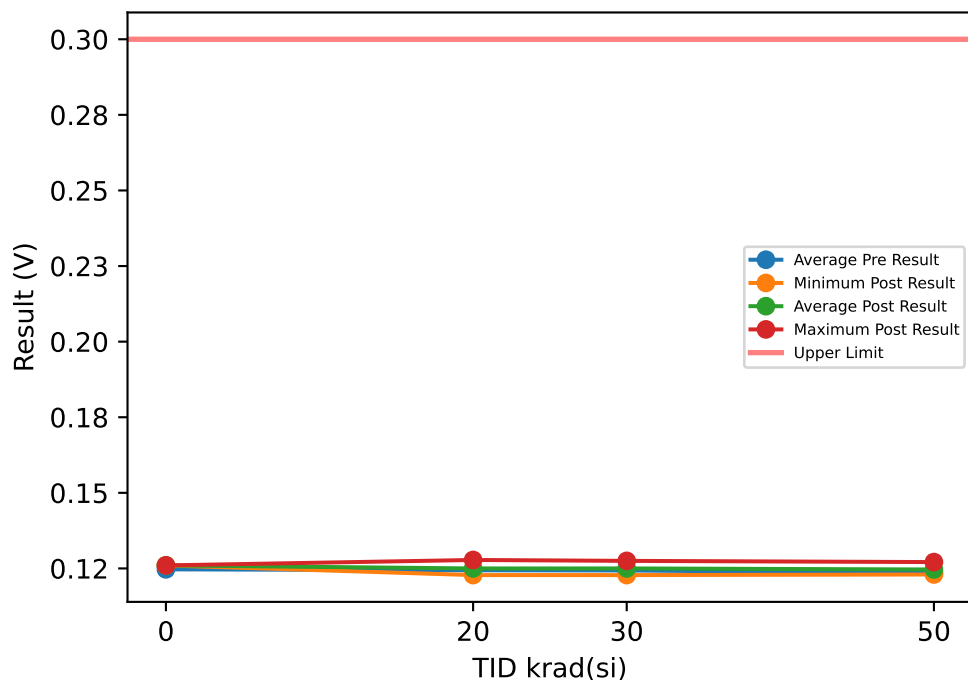


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|------------|
| 0 | 0.0698 | 0.0698 | 0.0698 | | 0.0689 | 0.0689 | 0.0689 | | -0.0009 | -0.0009 | -0.0009 | |
| 20 | 0.0659 | 0.0676 | 0.0694 | 0.0014553 | 0.0654 | 0.06685 | 0.0682 | 0.001154 | -0.0016 | -0.00075 | -0.0004 | 0.00040893 |
| 30 | 0.0659 | 0.06766 | 0.0699 | 0.0017089 | 0.0631 | 0.06634 | 0.0686 | 0.001736 | -0.0051 | -0.00132 | 0 | 0.0014883 |
| 50 | 0.0664 | 0.06771 | 0.0694 | 0.0012521 | 0.0657 | 0.06676 | 0.0681 | 0.00092159 | -0.0014 | -0.00095 | -0.0001 | 0.000417 |

Device Test: 45.2 V_OH_DELTA(_VOH Delta LO VIN_10V)

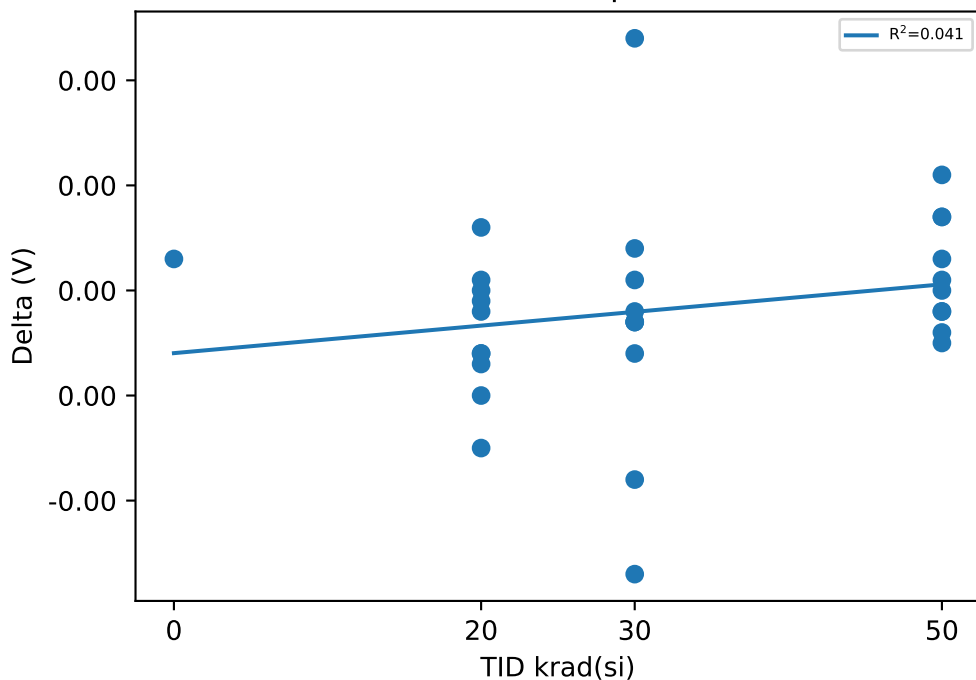
TID vs Result Stats



Test Results (Upper Limit = 0.3 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.1247 | 0.126 | 0.0013 |
| 321 | 20 | HDR unbiased | 0.1238 | 0.1247 | 0.0009 |
| 322 | 20 | HDR unbiased | 0.1225 | 0.1236 | 0.0011 |
| 323 | 20 | HDR unbiased | 0.1231 | 0.1247 | 0.0016 |
| 324 | 20 | HDR unbiased | 0.1224 | 0.1228 | 0.0004 |
| 325 | 20 | HDR unbiased | 0.1231 | 0.1241 | 0.001 |
| 331 | 30 | HDR unbiased | 0.1235 | 0.1242 | 0.0007 |
| 332 | 30 | HDR unbiased | 0.1221 | 0.1228 | 0.0007 |
| 333 | 30 | HDR unbiased | 0.1242 | 0.1256 | 0.0014 |
| 334 | 30 | HDR unbiased | 0.1235 | 0.1239 | 0.0004 |
| 335 | 30 | HDR unbiased | 0.1242 | 0.1249 | 0.0007 |
| 351 | 50 | HDR unbiased | 0.1219 | 0.1232 | 0.0013 |
| 352 | 50 | HDR unbiased | 0.1226 | 0.1247 | 0.0021 |
| 353 | 50 | HDR unbiased | 0.1223 | 0.1233 | 0.001 |
| 354 | 50 | HDR unbiased | 0.1213 | 0.123 | 0.0017 |
| 355 | 50 | HDR unbiased | 0.1218 | 0.1235 | 0.0017 |
| 521 | 20 | HDR biased | 0.1259 | 0.1262 | 0.0003 |
| 522 | 20 | HDR biased | 0.1273 | 0.1268 | -0.0005 |
| 523 | 20 | HDR biased | 0.127 | 0.1278 | 0.0008 |
| 524 | 20 | HDR biased | 0.1242 | 0.1242 | 0 |
| 525 | 20 | HDR biased | 0.1246 | 0.125 | 0.0004 |
| 531 | 30 | HDR biased | 0.1241 | 0.1275 | 0.0034 |
| 532 | 30 | HDR biased | 0.1253 | 0.1245 | -0.0008 |
| 533 | 30 | HDR biased | 0.1249 | 0.126 | 0.0011 |
| 534 | 30 | HDR biased | 0.1246 | 0.1254 | 0.0008 |
| 535 | 30 | HDR biased | 0.1269 | 0.1252 | -0.0017 |
| 551 | 50 | HDR biased | 0.1255 | 0.1263 | 0.0008 |
| 552 | 50 | HDR biased | 0.1266 | 0.1271 | 0.0005 |
| 553 | 50 | HDR biased | 0.1259 | 0.1267 | 0.0008 |
| 554 | 50 | HDR biased | 0.1242 | 0.1248 | 0.0006 |
| 555 | 50 | HDR biased | 0.1228 | 0.1239 | 0.0011 |

TID vs Post - Pre Exposure Delta

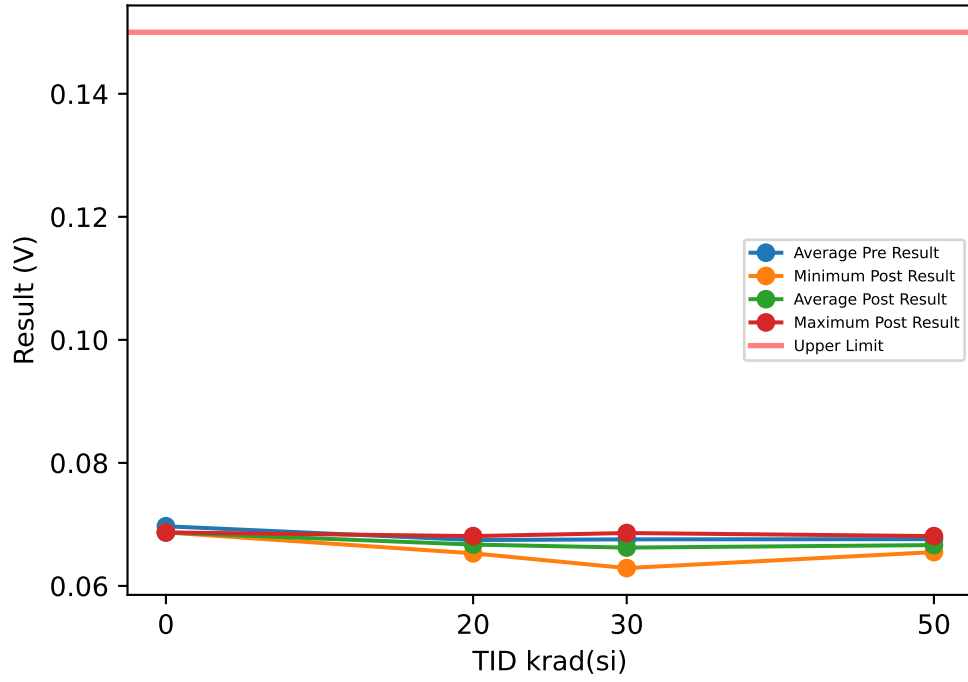


Test Statistics (V)

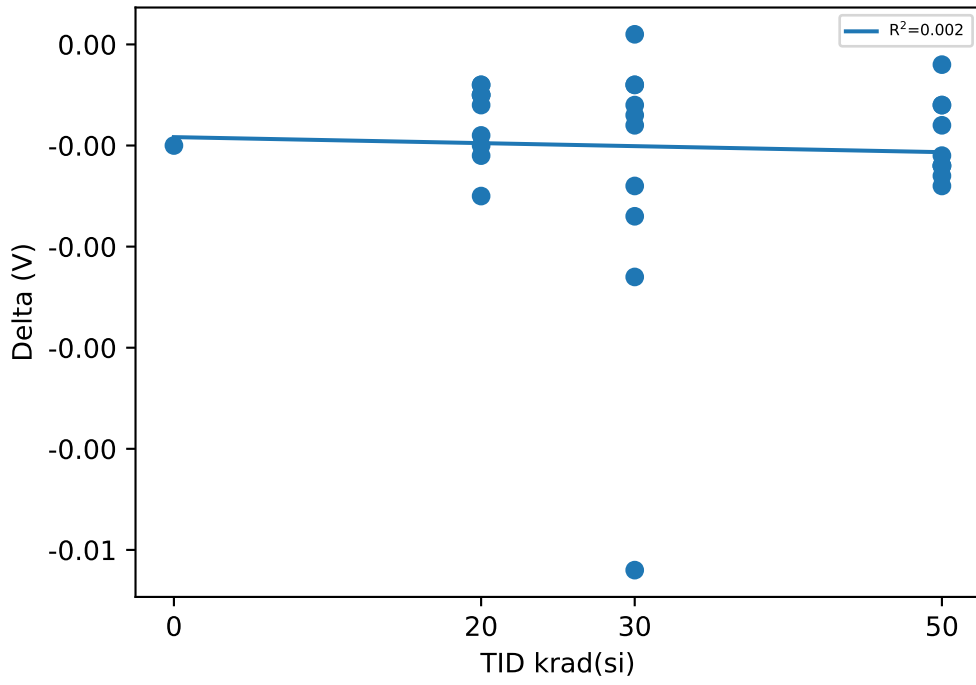
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|------------|
| 0 | 0.1247 | 0.1247 | 0.1247 | | 0.126 | 0.126 | 0.126 | | 0.0013 | 0.0013 | 0.0013 | |
| 20 | 0.1224 | 0.12439 | 0.1273 | 0.0017904 | 0.1228 | 0.12499 | 0.1278 | 0.0015257 | -0.0005 | 0.0006 | 0.0016 | 0.00060369 |
| 30 | 0.1221 | 0.12433 | 0.1269 | 0.0012641 | 0.1228 | 0.125 | 0.1275 | 0.0012806 | -0.0017 | 0.00067 | 0.0034 | 0.001335 |
| 50 | 0.1213 | 0.12349 | 0.1266 | 0.0019116 | 0.123 | 0.12465 | 0.1271 | 0.0015451 | 0.0005 | 0.00116 | 0.0021 | 0.00052957 |

Device Test: 46.0 V_OL(_VOL LO VIN_12V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Upper Limit = 0.15 (V))

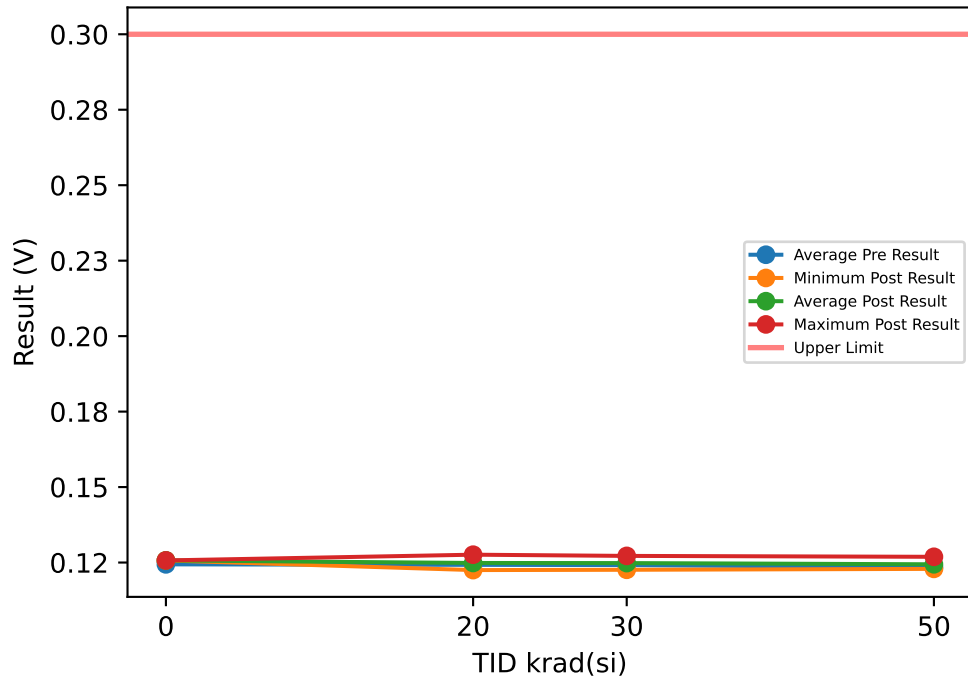
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.0697 | 0.0687 | -0.001 |
| 321 | 20 | HDR unbiased | 0.0658 | 0.0653 | -0.0005 |
| 322 | 20 | HDR unbiased | 0.066 | 0.0656 | -0.0004 |
| 323 | 20 | HDR unbiased | 0.0661 | 0.0655 | -0.0006 |
| 324 | 20 | HDR unbiased | 0.0664 | 0.066 | -0.0004 |
| 325 | 20 | HDR unbiased | 0.0664 | 0.0659 | -0.0005 |
| 331 | 30 | HDR unbiased | 0.0664 | 0.0657 | -0.0007 |
| 332 | 30 | HDR unbiased | 0.0661 | 0.0657 | -0.0004 |
| 333 | 30 | HDR unbiased | 0.0658 | 0.065 | -0.0008 |
| 334 | 30 | HDR unbiased | 0.0659 | 0.0653 | -0.0006 |
| 335 | 30 | HDR unbiased | 0.0659 | 0.0655 | -0.0004 |
| 351 | 50 | HDR unbiased | 0.0663 | 0.0657 | -0.0006 |
| 352 | 50 | HDR unbiased | 0.0665 | 0.0659 | -0.0006 |
| 353 | 50 | HDR unbiased | 0.0664 | 0.0656 | -0.0008 |
| 354 | 50 | HDR unbiased | 0.0664 | 0.0662 | -0.0002 |
| 355 | 50 | HDR unbiased | 0.0667 | 0.0655 | -0.0012 |
| 521 | 20 | HDR biased | 0.0687 | 0.0678 | -0.0009 |
| 522 | 20 | HDR biased | 0.0687 | 0.0676 | -0.0011 |
| 523 | 20 | HDR biased | 0.0688 | 0.0678 | -0.001 |
| 524 | 20 | HDR biased | 0.0686 | 0.0681 | -0.0005 |
| 525 | 20 | HDR biased | 0.0691 | 0.0676 | -0.0015 |
| 531 | 30 | HDR biased | 0.0693 | 0.0679 | -0.0014 |
| 532 | 30 | HDR biased | 0.0681 | 0.0629 | -0.0052 |
| 533 | 30 | HDR biased | 0.0699 | 0.0676 | -0.0023 |
| 534 | 30 | HDR biased | 0.0698 | 0.0681 | -0.0017 |
| 535 | 30 | HDR biased | 0.0685 | 0.0686 | 0.0001 |
| 551 | 50 | HDR biased | 0.0682 | 0.0671 | -0.0011 |
| 552 | 50 | HDR biased | 0.0683 | 0.0671 | -0.0012 |
| 553 | 50 | HDR biased | 0.0689 | 0.0675 | -0.0014 |
| 554 | 50 | HDR biased | 0.069 | 0.0677 | -0.0013 |
| 555 | 50 | HDR biased | 0.0693 | 0.0681 | -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 | 0.0697 | 0.0697 | 0.0697 | | 0.0687 | 0.0687 | 0.0687 | | -0.001 | -0.001 | -0.001 | |
| 20 | 0.0658 | 0.06746 | 0.0691 | 0.0014081 | 0.0653 | 0.06672 | 0.0681 | 0.0011419 | -0.0015 | -0.00074 | -0.0004 | 0.00036878 |
| 30 | 0.0658 | 0.06757 | 0.0699 | 0.001725 | 0.0629 | 0.06623 | 0.0686 | 0.0017745 | -0.0052 | -0.00134 | 0.0001 | 0.0015291 |
| 50 | 0.0663 | 0.0676 | 0.0693 | 0.0012463 | 0.0655 | 0.06664 | 0.0681 | 0.00096747 | -0.0014 | -0.00096 | -0.0002 | 0.0003893 |

Device Test: 46.2 V_OH_DELTA(_VOH Delta LO VIN_12V)

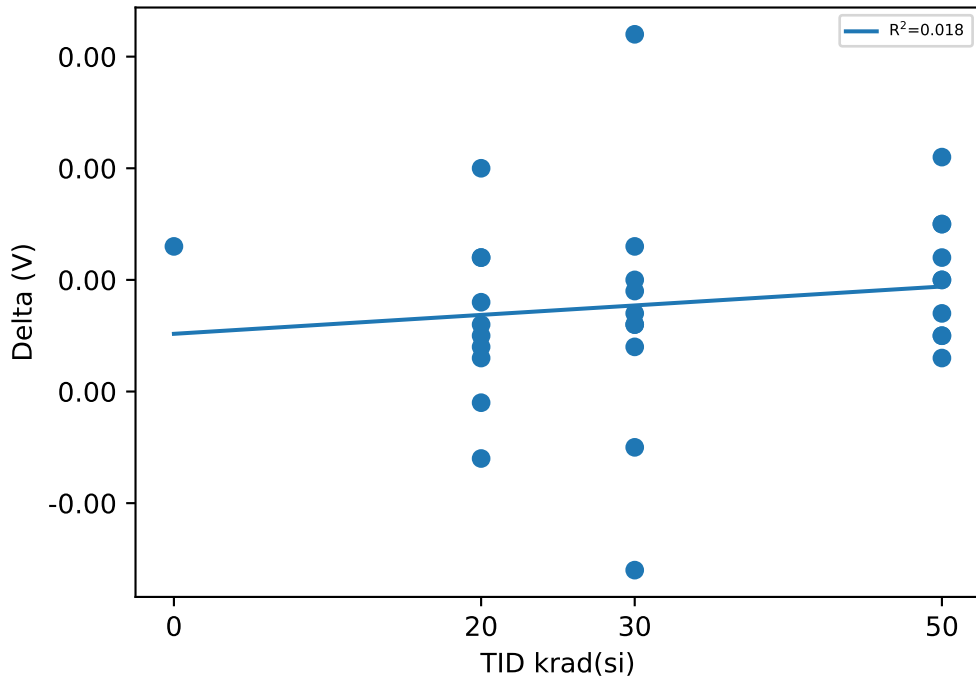
TID vs Result Stats



Test Results (Upper Limit = 0.3 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.1244 | 0.1257 | 0.0013 |
| 321 | 20 | HDR unbiased | 0.1235 | 0.1247 | 0.0012 |
| 322 | 20 | HDR unbiased | 0.1225 | 0.1237 | 0.0012 |
| 323 | 20 | HDR unbiased | 0.1228 | 0.1248 | 0.002 |
| 324 | 20 | HDR unbiased | 0.1221 | 0.1225 | 0.0004 |
| 325 | 20 | HDR unbiased | 0.1232 | 0.1238 | 0.0006 |
| 331 | 30 | HDR unbiased | 0.1233 | 0.1242 | 0.0009 |
| 332 | 30 | HDR unbiased | 0.122 | 0.1226 | 0.0006 |
| 333 | 30 | HDR unbiased | 0.124 | 0.1253 | 0.0013 |
| 334 | 30 | HDR unbiased | 0.1232 | 0.1236 | 0.0004 |
| 335 | 30 | HDR unbiased | 0.1241 | 0.1248 | 0.0007 |
| 351 | 50 | HDR unbiased | 0.1217 | 0.1229 | 0.0012 |
| 352 | 50 | HDR unbiased | 0.1225 | 0.1246 | 0.0021 |
| 353 | 50 | HDR unbiased | 0.1221 | 0.1231 | 0.001 |
| 354 | 50 | HDR unbiased | 0.1214 | 0.1229 | 0.0015 |
| 355 | 50 | HDR unbiased | 0.1216 | 0.1231 | 0.0015 |
| 521 | 20 | HDR biased | 0.1256 | 0.1259 | 0.0003 |
| 522 | 20 | HDR biased | 0.1272 | 0.1266 | -0.0006 |
| 523 | 20 | HDR biased | 0.1268 | 0.1276 | 0.0008 |
| 524 | 20 | HDR biased | 0.1241 | 0.124 | -0.0001 |
| 525 | 20 | HDR biased | 0.1245 | 0.125 | 0.0005 |
| 531 | 30 | HDR biased | 0.124 | 0.1272 | 0.0032 |
| 532 | 30 | HDR biased | 0.125 | 0.1245 | -0.0005 |
| 533 | 30 | HDR biased | 0.1249 | 0.1259 | 0.001 |
| 534 | 30 | HDR biased | 0.1244 | 0.125 | 0.0006 |
| 535 | 30 | HDR biased | 0.1267 | 0.1251 | -0.0016 |
| 551 | 50 | HDR biased | 0.1256 | 0.1259 | 0.0003 |
| 552 | 50 | HDR biased | 0.1264 | 0.1269 | 0.0005 |
| 553 | 50 | HDR biased | 0.1257 | 0.1264 | 0.0007 |
| 554 | 50 | HDR biased | 0.1242 | 0.1247 | 0.0005 |
| 555 | 50 | HDR biased | 0.1227 | 0.1237 | 0.001 |

TID vs Post - Pre Exposure Delta

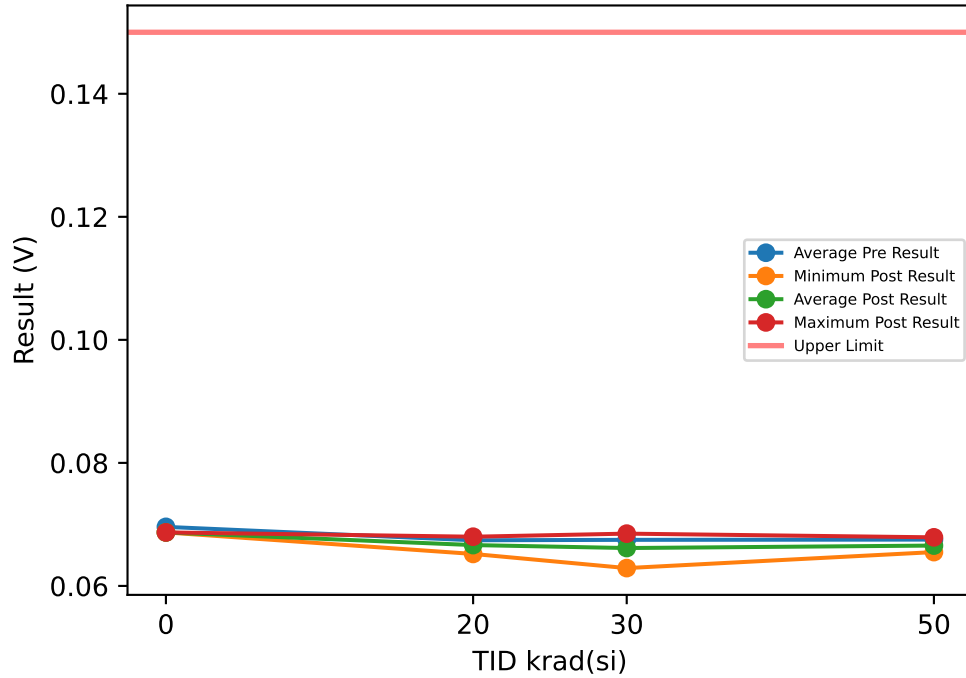


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|------------|
| 0 | 0.1244 | 0.1244 | 0.1244 | | 0.1257 | 0.1257 | 0.1257 | | 0.0013 | 0.0013 | 0.0013 | |
| 20 | 0.1221 | 0.12423 | 0.1272 | 0.0017814 | 0.1225 | 0.12486 | 0.1276 | 0.0015072 | -0.0006 | 0.00063 | 0.002 | 0.00072885 |
| 30 | 0.122 | 0.12416 | 0.1267 | 0.0012536 | 0.1226 | 0.12482 | 0.1272 | 0.0012506 | -0.0016 | 0.00066 | 0.0032 | 0.0012276 |
| 50 | 0.1214 | 0.12339 | 0.1264 | 0.0019116 | 0.1229 | 0.12442 | 0.1269 | 0.0015274 | 0.0003 | 0.00103 | 0.0021 | 0.00055986 |

Device Test: 47.0 V_OL(_VOL LO VIN_14V)

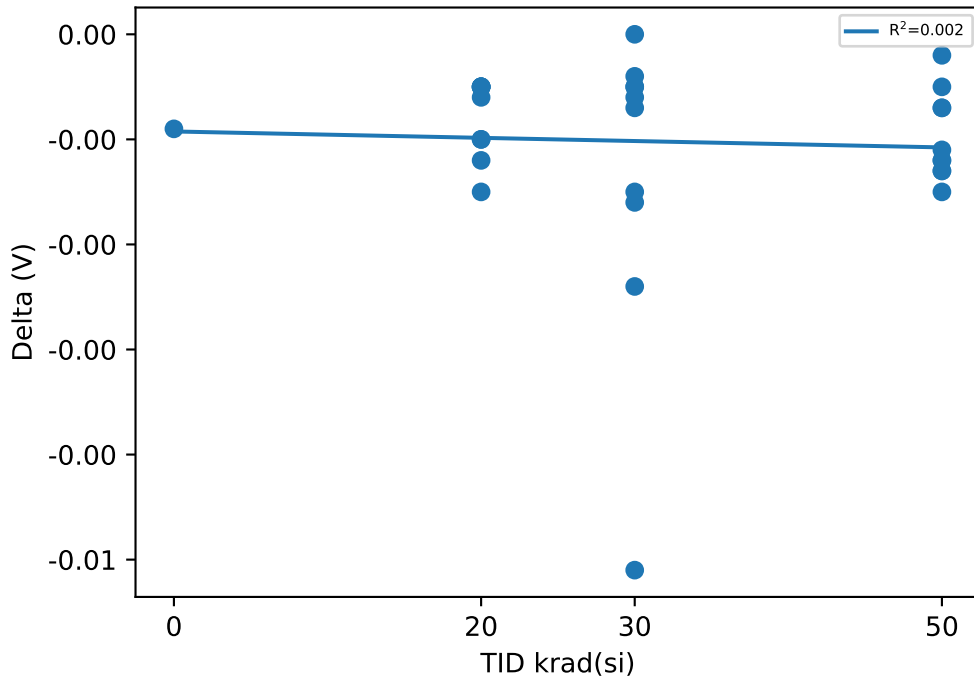
TID vs Result Stats



Test Results (Upper Limit = 0.15 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.0696 | 0.0687 | -0.0009 |
| 321 | 20 | HDR unbiased | 0.0658 | 0.0652 | -0.0006 |
| 322 | 20 | HDR unbiased | 0.066 | 0.0655 | -0.0005 |
| 323 | 20 | HDR unbiased | 0.066 | 0.0655 | -0.0005 |
| 324 | 20 | HDR unbiased | 0.0663 | 0.0658 | -0.0005 |
| 325 | 20 | HDR unbiased | 0.0663 | 0.0658 | -0.0005 |
| 331 | 30 | HDR unbiased | 0.0663 | 0.0657 | -0.0006 |
| 332 | 30 | HDR unbiased | 0.0661 | 0.0656 | -0.0005 |
| 333 | 30 | HDR unbiased | 0.0657 | 0.065 | -0.0007 |
| 334 | 30 | HDR unbiased | 0.0658 | 0.0653 | -0.0005 |
| 335 | 30 | HDR unbiased | 0.0658 | 0.0654 | -0.0004 |
| 351 | 50 | HDR unbiased | 0.0662 | 0.0657 | -0.0005 |
| 352 | 50 | HDR unbiased | 0.0665 | 0.0658 | -0.0007 |
| 353 | 50 | HDR unbiased | 0.0663 | 0.0656 | -0.0007 |
| 354 | 50 | HDR unbiased | 0.0663 | 0.0661 | -0.0002 |
| 355 | 50 | HDR unbiased | 0.0666 | 0.0655 | -0.0011 |
| 521 | 20 | HDR biased | 0.0688 | 0.0678 | -0.001 |
| 522 | 20 | HDR biased | 0.0687 | 0.0675 | -0.0012 |
| 523 | 20 | HDR biased | 0.0688 | 0.0678 | -0.001 |
| 524 | 20 | HDR biased | 0.0685 | 0.068 | -0.0005 |
| 525 | 20 | HDR biased | 0.069 | 0.0675 | -0.0015 |
| 531 | 30 | HDR biased | 0.0693 | 0.0678 | -0.0015 |
| 532 | 30 | HDR biased | 0.068 | 0.0629 | -0.0051 |
| 533 | 30 | HDR biased | 0.0698 | 0.0674 | -0.0024 |
| 534 | 30 | HDR biased | 0.0696 | 0.068 | -0.0016 |
| 535 | 30 | HDR biased | 0.0685 | 0.0685 | 0 |
| 551 | 50 | HDR biased | 0.0682 | 0.067 | -0.0012 |
| 552 | 50 | HDR biased | 0.0682 | 0.067 | -0.0012 |
| 553 | 50 | HDR biased | 0.0689 | 0.0674 | -0.0015 |
| 554 | 50 | HDR biased | 0.0689 | 0.0676 | -0.0013 |
| 555 | 50 | HDR biased | 0.0692 | 0.0679 | -0.0013 |

TID vs Post - Pre Exposure Delta

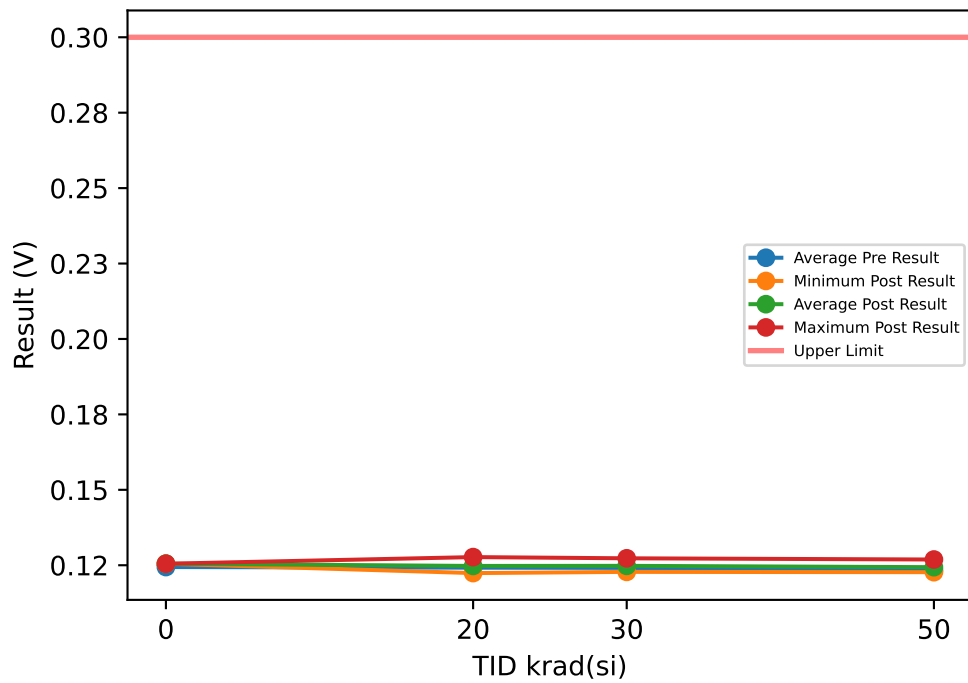


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|------------|
| 0 | 0.0696 | 0.0696 | 0.0696 | | 0.0687 | 0.0687 | 0.0687 | | -0.0009 | -0.0009 | -0.0009 | |
| 20 | 0.0658 | 0.06742 | 0.069 | 0.001425 | 0.0652 | 0.06664 | 0.068 | 0.0011597 | -0.0015 | -0.00078 | -0.0005 | 0.00036757 |
| 30 | 0.0657 | 0.06749 | 0.0698 | 0.0017195 | 0.0629 | 0.06616 | 0.0685 | 0.001729 | -0.0051 | -0.00133 | 0 | 0.0015056 |
| 50 | 0.0662 | 0.06753 | 0.0692 | 0.0012544 | 0.0655 | 0.06656 | 0.0679 | 0.00091554 | -0.0015 | -0.00097 | -0.0002 | 0.00041913 |

Device Test: 47.2 V_OH_DELTA(_VOH Delta LO VIN_14V)

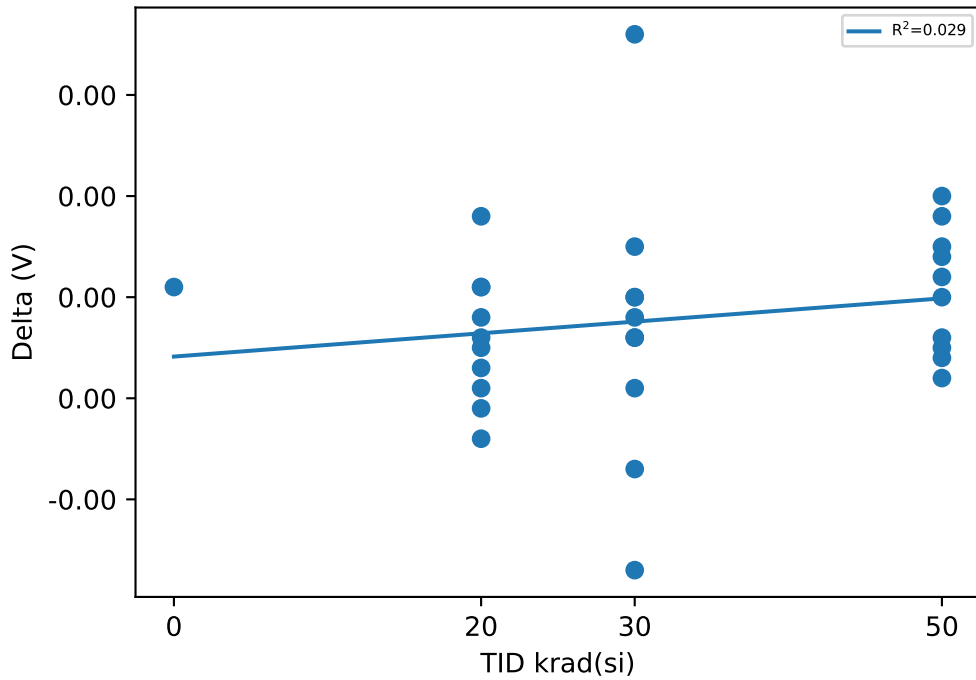
TID vs Result Stats



Test Results (Upper Limit = 0.3 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 0.1244 | 0.1255 | 0.0011 |
| 321 | 20 | HDR unbiased | 0.1237 | 0.1245 | 0.0008 |
| 322 | 20 | HDR unbiased | 0.1224 | 0.1235 | 0.0011 |
| 323 | 20 | HDR unbiased | 0.1229 | 0.1247 | 0.0018 |
| 324 | 20 | HDR unbiased | 0.1221 | 0.1224 | 0.0003 |
| 325 | 20 | HDR unbiased | 0.1231 | 0.1237 | 0.0006 |
| 331 | 30 | HDR unbiased | 0.1233 | 0.1241 | 0.0008 |
| 332 | 30 | HDR unbiased | 0.1218 | 0.1228 | 0.001 |
| 333 | 30 | HDR unbiased | 0.1239 | 0.1254 | 0.0015 |
| 334 | 30 | HDR unbiased | 0.1235 | 0.1236 | 0.0001 |
| 335 | 30 | HDR unbiased | 0.124 | 0.1246 | 0.0006 |
| 351 | 50 | HDR unbiased | 0.1217 | 0.1231 | 0.0014 |
| 352 | 50 | HDR unbiased | 0.1224 | 0.1244 | 0.002 |
| 353 | 50 | HDR unbiased | 0.1219 | 0.1231 | 0.0012 |
| 354 | 50 | HDR unbiased | 0.1212 | 0.1227 | 0.0015 |
| 355 | 50 | HDR unbiased | 0.1214 | 0.1232 | 0.0018 |
| 521 | 20 | HDR biased | 0.1257 | 0.1258 | 0.0001 |
| 522 | 20 | HDR biased | 0.127 | 0.1266 | -0.0004 |
| 523 | 20 | HDR biased | 0.1266 | 0.1277 | 0.0011 |
| 524 | 20 | HDR biased | 0.124 | 0.1239 | -0.0001 |
| 525 | 20 | HDR biased | 0.1244 | 0.1249 | 0.0005 |
| 531 | 30 | HDR biased | 0.1237 | 0.1273 | 0.0036 |
| 532 | 30 | HDR biased | 0.1251 | 0.1244 | -0.0007 |
| 533 | 30 | HDR biased | 0.1248 | 0.1258 | 0.001 |
| 534 | 30 | HDR biased | 0.1244 | 0.125 | 0.0006 |
| 535 | 30 | HDR biased | 0.1267 | 0.125 | -0.0017 |
| 551 | 50 | HDR biased | 0.1254 | 0.1259 | 0.0005 |
| 552 | 50 | HDR biased | 0.1263 | 0.1269 | 0.0006 |
| 553 | 50 | HDR biased | 0.126 | 0.1262 | 0.0002 |
| 554 | 50 | HDR biased | 0.1241 | 0.1245 | 0.0004 |
| 555 | 50 | HDR biased | 0.1226 | 0.1236 | 0.001 |

TID vs Post - Pre Exposure Delta

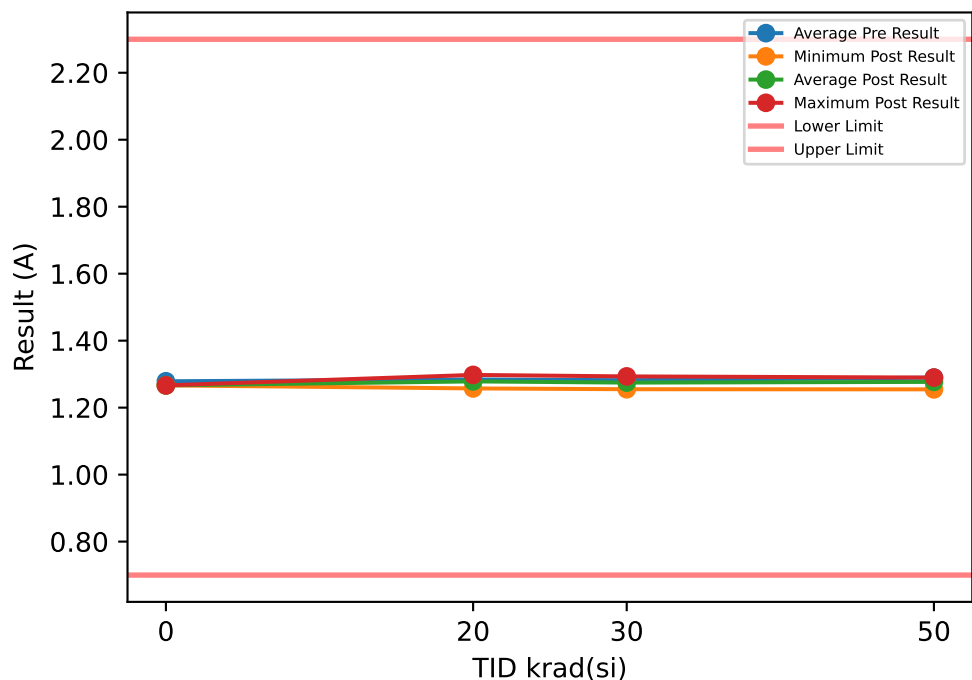


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|------------|
| 0 | 0.1244 | 0.1244 | 0.1244 | | 0.1255 | 0.1255 | 0.1255 | | 0.0011 | 0.0011 | 0.0011 | |
| 20 | 0.1221 | 0.12419 | 0.127 | 0.0017233 | 0.1224 | 0.12477 | 0.1277 | 0.0015713 | -0.0004 | 0.00058 | 0.0018 | 0.00065115 |
| 30 | 0.1218 | 0.12412 | 0.1267 | 0.0012839 | 0.1228 | 0.1248 | 0.1273 | 0.0012392 | -0.0017 | 0.00068 | 0.0036 | 0.0013879 |
| 50 | 0.1212 | 0.1233 | 0.1263 | 0.0019771 | 0.1227 | 0.12436 | 0.1269 | 0.0014938 | 0.0002 | 0.00106 | 0.002 | 0.00062039 |

Device Test: 50.0 I_OH(IOH LO VIN_10V)

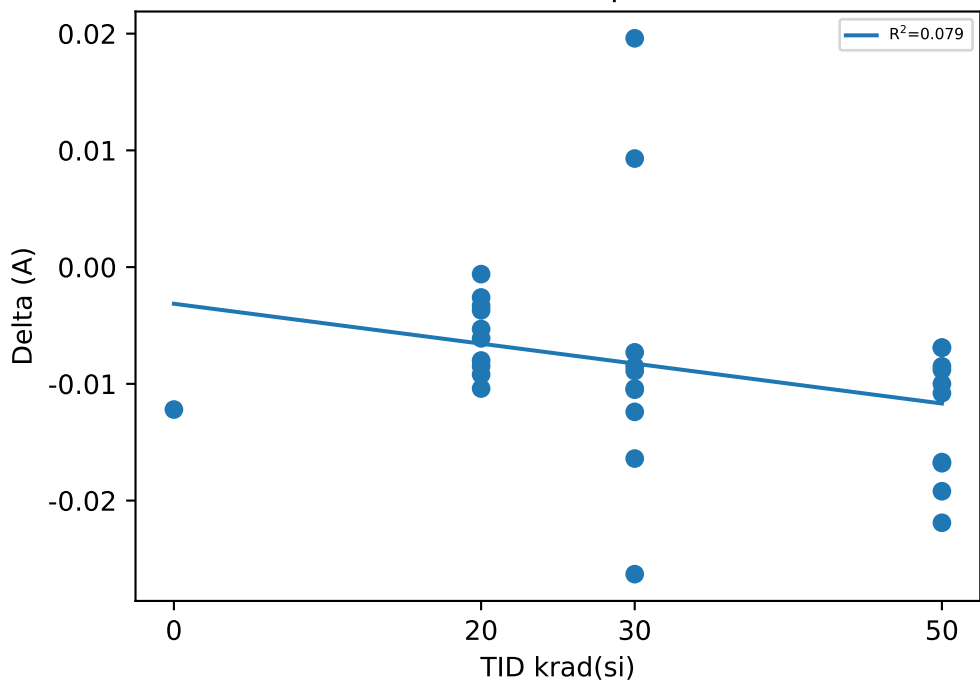
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 2.3 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.2787 | 1.2665 | -0.0122 |
| 321 | 20 | HDR unbiased | 1.2943 | 1.2858 | -0.0085 |
| 322 | 20 | HDR unbiased | 1.2998 | 1.2906 | -0.0092 |
| 323 | 20 | HDR unbiased | 1.2903 | 1.2799 | -0.0104 |
| 324 | 20 | HDR unbiased | 1.3057 | 1.2977 | -0.008 |
| 325 | 20 | HDR unbiased | 1.2931 | 1.2878 | -0.0053 |
| 331 | 30 | HDR unbiased | 1.2856 | 1.2783 | -0.0073 |
| 332 | 30 | HDR unbiased | 1.3022 | 1.2933 | -0.0089 |
| 333 | 30 | HDR unbiased | 1.2797 | 1.2712 | -0.0085 |
| 334 | 30 | HDR unbiased | 1.2951 | 1.2846 | -0.0105 |
| 335 | 30 | HDR unbiased | 1.2868 | 1.2744 | -0.0124 |
| 351 | 50 | HDR unbiased | 1.2986 | 1.2886 | -0.01 |
| 352 | 50 | HDR unbiased | 1.2971 | 1.2779 | -0.0192 |
| 353 | 50 | HDR unbiased | 1.3061 | 1.2842 | -0.0219 |
| 354 | 50 | HDR unbiased | 1.3054 | 1.2886 | -0.0168 |
| 355 | 50 | HDR unbiased | 1.3065 | 1.2898 | -0.0167 |
| 521 | 20 | HDR biased | 1.2702 | 1.2665 | -0.0037 |
| 522 | 20 | HDR biased | 1.2627 | 1.2601 | -0.0026 |
| 523 | 20 | HDR biased | 1.2607 | 1.2574 | -0.0033 |
| 524 | 20 | HDR biased | 1.2836 | 1.2775 | -0.0061 |
| 525 | 20 | HDR biased | 1.2809 | 1.2803 | -0.0006 |
| 531 | 30 | HDR biased | 1.2813 | 1.255 | -0.0263 |
| 532 | 30 | HDR biased | 1.269 | 1.2886 | 0.0196 |
| 533 | 30 | HDR biased | 1.2773 | 1.2609 | -0.0164 |
| 534 | 30 | HDR biased | 1.2773 | 1.2669 | -0.0104 |
| 535 | 30 | HDR biased | 1.2651 | 1.2744 | 0.0093 |
| 551 | 50 | HDR biased | 1.2761 | 1.2653 | -0.0108 |
| 552 | 50 | HDR biased | 1.2615 | 1.2546 | -0.0069 |
| 553 | 50 | HDR biased | 1.2686 | 1.2598 | -0.0088 |
| 554 | 50 | HDR biased | 1.2809 | 1.274 | -0.0069 |
| 555 | 50 | HDR biased | 1.2947 | 1.2862 | -0.0085 |

TID vs Post - Pre Exposure Delta

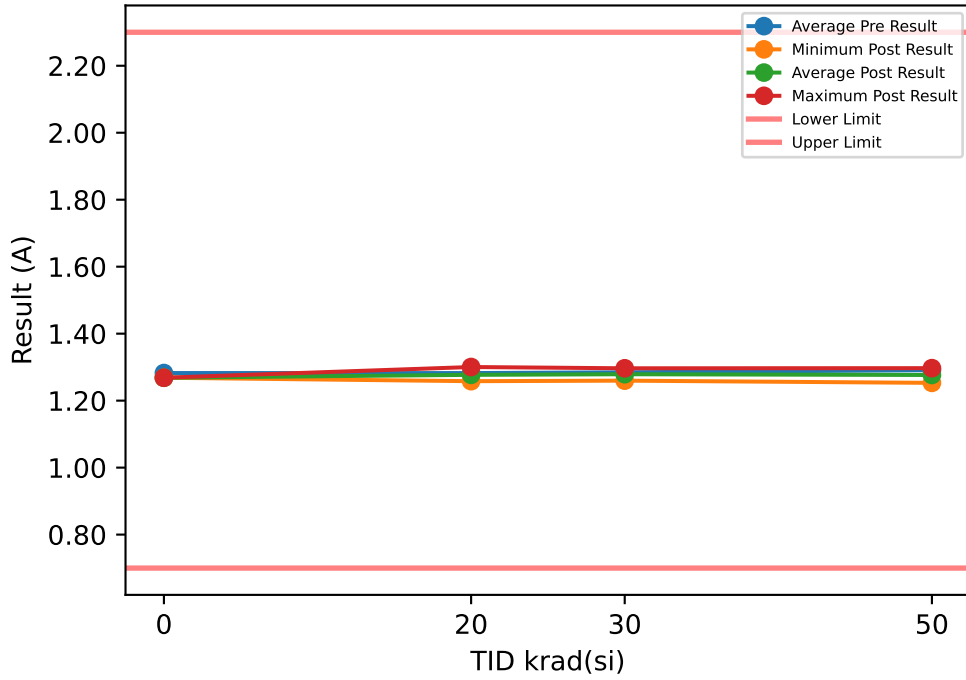


Test Statistics (A)

| 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 | 1.2787 | 1.2787 | 1.2787 | | 1.2665 | 1.2665 | 1.2665 | | -0.0122 | -0.0122 | -0.0122 | |
| 20 | 1.2607 | 1.2841 | 1.3057 | 0.015441 | 1.2574 | 1.2784 | 1.2977 | 0.013286 | -0.0104 | -0.00577 | -0.0006 | 0.0032166 |
| 30 | 1.2651 | 1.2819 | 1.3022 | 0.011156 | 1.255 | 1.2748 | 1.2933 | 0.012027 | -0.0263 | -0.00718 | 0.0196 | 0.012878 |
| 50 | 1.2615 | 1.2895 | 1.3065 | 0.01653 | 1.2546 | 1.2769 | 1.2898 | 0.012969 | -0.0219 | -0.01265 | -0.0069 | 0.0054844 |

Device Test: 50.1 I_OH(IOH HO VIN_10V)

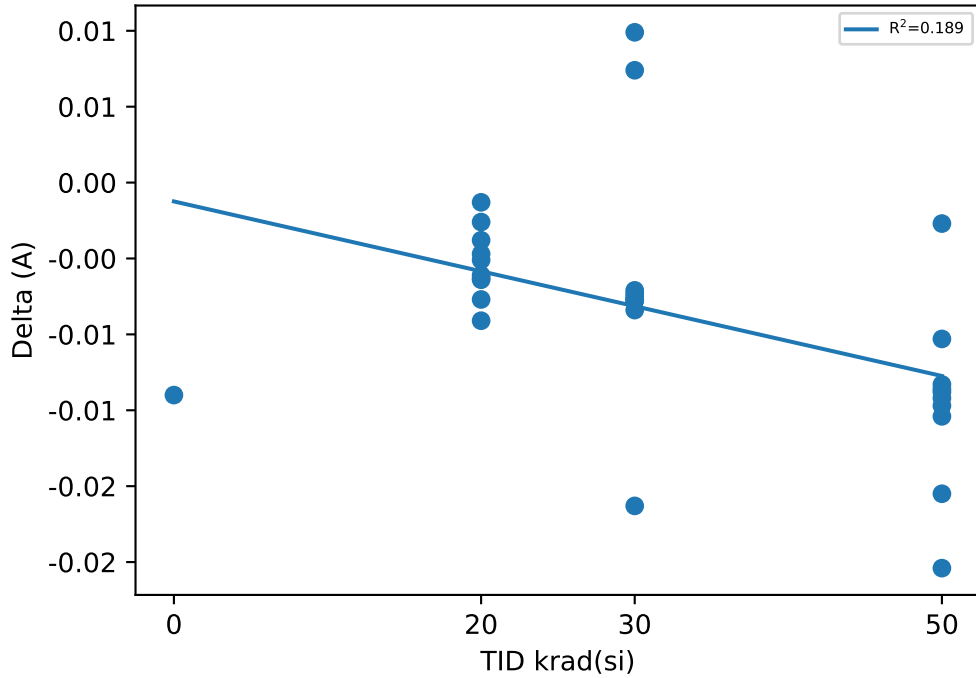
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 2.3 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.2824 | 1.2684 | -0.014 |
| 321 | 20 | HDR unbiased | 1.2966 | 1.2915 | -0.0051 |
| 322 | 20 | HDR unbiased | 1.286 | 1.2796 | -0.0064 |
| 323 | 20 | HDR unbiased | 1.3039 | 1.2962 | -0.0077 |
| 324 | 20 | HDR unbiased | 1.2781 | 1.2743 | -0.0038 |
| 325 | 20 | HDR unbiased | 1.3051 | 1.3004 | -0.0047 |
| 331 | 30 | HDR unbiased | 1.2948 | 1.287 | -0.0078 |
| 332 | 30 | HDR unbiased | 1.283 | 1.2759 | -0.0071 |
| 333 | 30 | HDR unbiased | 1.3043 | 1.2966 | -0.0077 |
| 334 | 30 | HDR unbiased | 1.2907 | 1.2834 | -0.0073 |
| 335 | 30 | HDR unbiased | 1.3041 | 1.2957 | -0.0084 |
| 351 | 50 | HDR unbiased | 1.294 | 1.2913 | -0.0027 |
| 352 | 50 | HDR unbiased | 1.3124 | 1.297 | -0.0154 |
| 353 | 50 | HDR unbiased | 1.3053 | 1.2799 | -0.0254 |
| 354 | 50 | HDR unbiased | 1.3094 | 1.2889 | -0.0205 |
| 355 | 50 | HDR unbiased | 1.3037 | 1.2934 | -0.0103 |
| 521 | 20 | HDR biased | 1.2662 | 1.2599 | -0.0063 |
| 522 | 20 | HDR biased | 1.2607 | 1.2581 | -0.0026 |
| 523 | 20 | HDR biased | 1.2652 | 1.2591 | -0.0061 |
| 524 | 20 | HDR biased | 1.2834 | 1.2743 | -0.0091 |
| 525 | 20 | HDR biased | 1.2781 | 1.2768 | -0.0013 |
| 531 | 30 | HDR biased | 1.281 | 1.2597 | -0.0213 |
| 532 | 30 | HDR biased | 1.2743 | 1.2842 | 0.0099 |
| 533 | 30 | HDR biased | 1.2737 | 1.266 | -0.0077 |
| 534 | 30 | HDR biased | 1.2745 | 1.267 | -0.0075 |
| 535 | 30 | HDR biased | 1.2659 | 1.2733 | 0.0074 |
| 551 | 50 | HDR biased | 1.2694 | 1.2558 | -0.0136 |
| 552 | 50 | HDR biased | 1.2692 | 1.2554 | -0.0138 |
| 553 | 50 | HDR biased | 1.2678 | 1.2531 | -0.0147 |
| 554 | 50 | HDR biased | 1.2798 | 1.2656 | -0.0142 |
| 555 | 50 | HDR biased | 1.2988 | 1.2855 | -0.0133 |

TID vs Post - Pre Exposure Delta

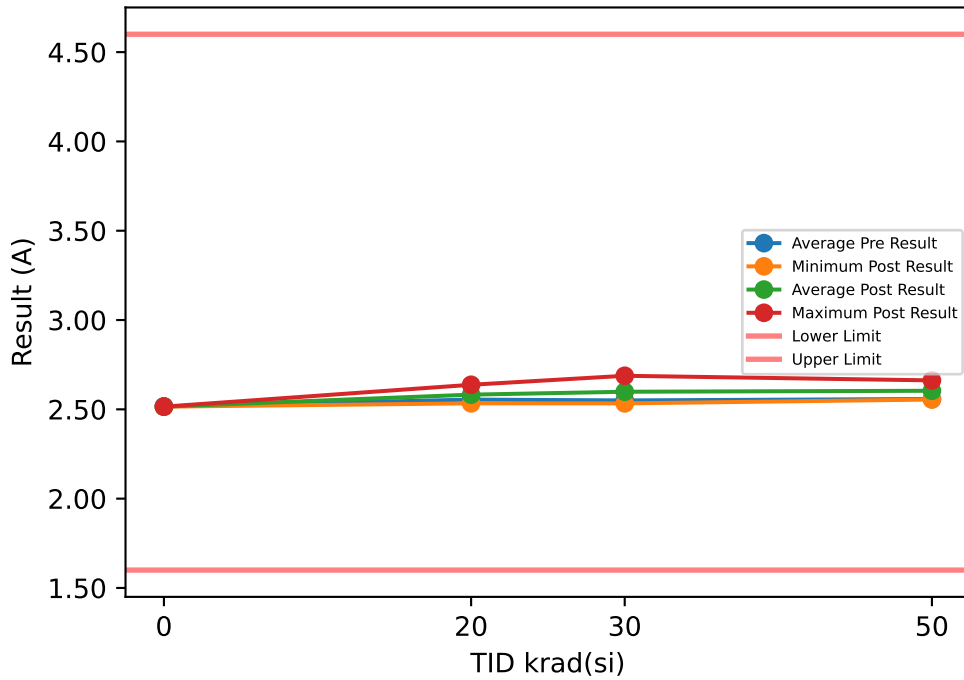


Test Statistics (A)

| 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 | 1.2824 | 1.2824 | 1.2824 | | 1.2684 | 1.2684 | 1.2684 | | -0.014 | -0.014 | -0.014 | |
| 20 | 1.2607 | 1.2823 | 1.3051 | 0.015844 | 1.2581 | 1.277 | 1.3004 | 0.01534 | -0.0091 | -0.00531 | -0.0013 | 0.0023331 |
| 30 | 1.2659 | 1.2846 | 1.3043 | 0.01334 | 1.2597 | 1.2789 | 1.2966 | 0.01259 | -0.0213 | -0.00575 | 0.0099 | 0.008729 |
| 50 | 1.2678 | 1.291 | 1.3124 | 0.017756 | 1.2531 | 1.2766 | 1.297 | 0.017356 | -0.0254 | -0.01439 | -0.0027 | 0.0059184 |

Device Test: 50.2 I_OL(I_OL LO VIN_10V)

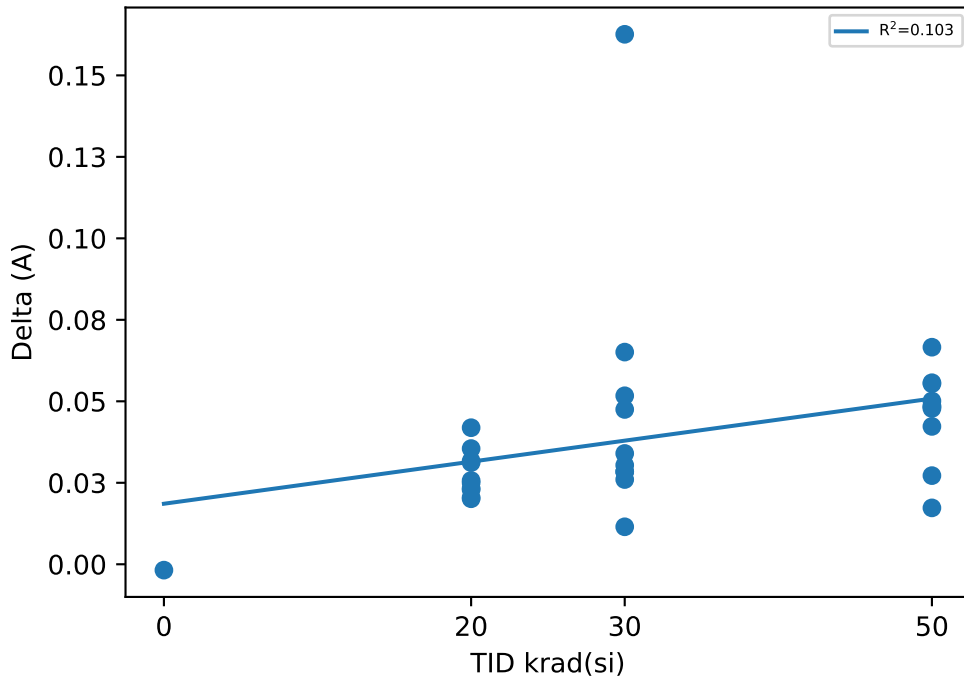
TID vs Result Stats



Test Results (Lower Limit = 1.6, Upper Limit = 4.6 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.5168 | 2.515 | -0.0018 |
| 321 | 20 | HDR unbiased | 2.5988 | 2.6238 | 0.025 |
| 322 | 20 | HDR unbiased | 2.5953 | 2.6182 | 0.0229 |
| 323 | 20 | HDR unbiased | 2.5909 | 2.6166 | 0.0257 |
| 324 | 20 | HDR unbiased | 2.6142 | 2.6375 | 0.0233 |
| 325 | 20 | HDR unbiased | 2.5941 | 2.6142 | 0.0201 |
| 331 | 30 | HDR unbiased | 2.5909 | 2.6193 | 0.0284 |
| 332 | 30 | HDR unbiased | 2.5937 | 2.6197 | 0.026 |
| 333 | 30 | HDR unbiased | 2.5945 | 2.6285 | 0.034 |
| 334 | 30 | HDR unbiased | 2.6051 | 2.6355 | 0.0304 |
| 335 | 30 | HDR unbiased | 2.5925 | 2.6209 | 0.0284 |
| 351 | 50 | HDR unbiased | 2.6142 | 2.6315 | 0.0173 |
| 352 | 50 | HDR unbiased | 2.6198 | 2.6621 | 0.0423 |
| 353 | 50 | HDR unbiased | 2.589 | 2.6556 | 0.0666 |
| 354 | 50 | HDR unbiased | 2.6028 | 2.63 | 0.0272 |
| 355 | 50 | HDR unbiased | 2.5886 | 2.6443 | 0.0557 |
| 521 | 20 | HDR biased | 2.5088 | 2.54 | 0.0312 |
| 522 | 20 | HDR biased | 2.5178 | 2.5533 | 0.0355 |
| 523 | 20 | HDR biased | 2.5115 | 2.5432 | 0.0317 |
| 524 | 20 | HDR biased | 2.5131 | 2.5336 | 0.0205 |
| 525 | 20 | HDR biased | 2.5005 | 2.5424 | 0.0419 |
| 531 | 30 | HDR biased | 2.5024 | 2.5541 | 0.0517 |
| 532 | 30 | HDR biased | 2.5253 | 2.6879 | 0.1626 |
| 533 | 30 | HDR biased | 2.4874 | 2.5525 | 0.0651 |
| 534 | 30 | HDR biased | 2.4858 | 2.5333 | 0.0475 |
| 535 | 30 | HDR biased | 2.5218 | 2.5333 | 0.0115 |
| 551 | 50 | HDR biased | 2.5107 | 2.5593 | 0.0486 |
| 552 | 50 | HDR biased | 2.5162 | 2.564 | 0.0478 |
| 553 | 50 | HDR biased | 2.5143 | 2.5697 | 0.0554 |
| 554 | 50 | HDR biased | 2.5048 | 2.5549 | 0.0501 |
| 555 | 50 | HDR biased | 2.5198 | 2.5681 | 0.0483 |

TID vs Post - Pre Exposure Delta

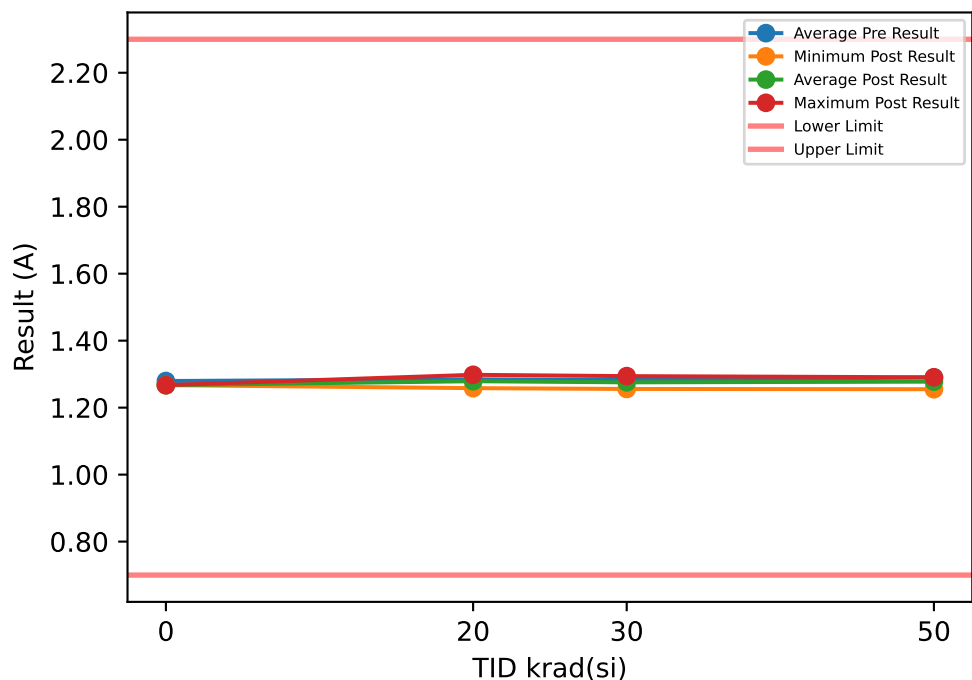


Test Statistics (A)

| 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 | 2.5168 | 2.5168 | 2.5168 | | 2.515 | 2.515 | 2.515 | | -0.0018 | -0.0018 | -0.0018 | |
| 20 | 2.5005 | 2.5545 | 2.6142 | 0.047139 | 2.5336 | 2.5823 | 2.6375 | 0.042655 | 0.0201 | 0.02778 | 0.0419 | 0.0071021 |
| 30 | 2.4858 | 2.5499 | 2.6051 | 0.049572 | 2.5333 | 2.5985 | 2.6879 | 0.051892 | 0.0115 | 0.04856 | 0.1626 | 0.042852 |
| 50 | 2.5048 | 2.558 | 2.6198 | 0.04838 | 2.5549 | 2.604 | 2.6621 | 0.044182 | 0.0173 | 0.04593 | 0.0666 | 0.014258 |

Device Test: 51.0 I_OH(IOH LO VIN_12V)

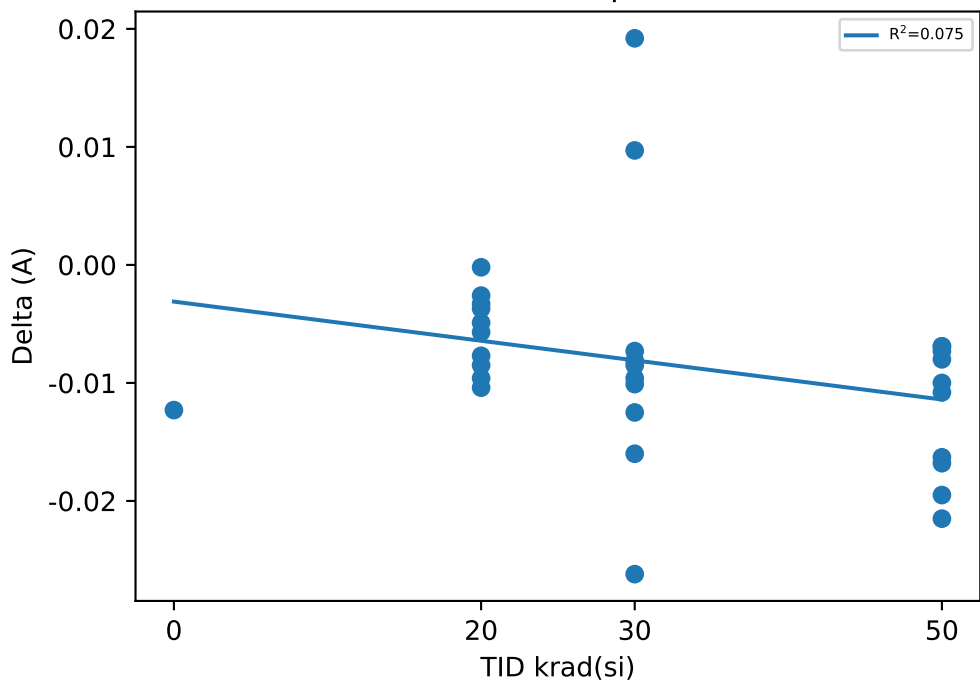
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 2.3 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.2795 | 1.2672 | -0.0123 |
| 321 | 20 | HDR unbiased | 1.2947 | 1.2862 | -0.0085 |
| 322 | 20 | HDR unbiased | 1.3002 | 1.2906 | -0.0096 |
| 323 | 20 | HDR unbiased | 1.2907 | 1.2803 | -0.0104 |
| 324 | 20 | HDR unbiased | 1.3057 | 1.298 | -0.0077 |
| 325 | 20 | HDR unbiased | 1.2935 | 1.2886 | -0.0049 |
| 331 | 30 | HDR unbiased | 1.286 | 1.2787 | -0.0073 |
| 332 | 30 | HDR unbiased | 1.3026 | 1.2941 | -0.0085 |
| 333 | 30 | HDR unbiased | 1.2805 | 1.2724 | -0.0081 |
| 334 | 30 | HDR unbiased | 1.2955 | 1.2854 | -0.0101 |
| 335 | 30 | HDR unbiased | 1.2872 | 1.2747 | -0.0125 |
| 351 | 50 | HDR unbiased | 1.2994 | 1.2894 | -0.01 |
| 352 | 50 | HDR unbiased | 1.2978 | 1.2783 | -0.0195 |
| 353 | 50 | HDR unbiased | 1.3061 | 1.2846 | -0.0215 |
| 354 | 50 | HDR unbiased | 1.3058 | 1.289 | -0.0168 |
| 355 | 50 | HDR unbiased | 1.3069 | 1.2906 | -0.0163 |
| 521 | 20 | HDR biased | 1.2706 | 1.2669 | -0.0037 |
| 522 | 20 | HDR biased | 1.2635 | 1.2609 | -0.0026 |
| 523 | 20 | HDR biased | 1.2615 | 1.2582 | -0.0033 |
| 524 | 20 | HDR biased | 1.284 | 1.2783 | -0.0057 |
| 525 | 20 | HDR biased | 1.2813 | 1.2811 | -0.0002 |
| 531 | 30 | HDR biased | 1.282 | 1.2558 | -0.0262 |
| 532 | 30 | HDR biased | 1.2698 | 1.289 | 0.0192 |
| 533 | 30 | HDR biased | 1.2781 | 1.2621 | -0.016 |
| 534 | 30 | HDR biased | 1.2777 | 1.2681 | -0.0096 |
| 535 | 30 | HDR biased | 1.2655 | 1.2752 | 0.0097 |
| 551 | 50 | HDR biased | 1.2769 | 1.2661 | -0.0108 |
| 552 | 50 | HDR biased | 1.2619 | 1.255 | -0.0069 |
| 553 | 50 | HDR biased | 1.269 | 1.261 | -0.008 |
| 554 | 50 | HDR biased | 1.2816 | 1.2747 | -0.0069 |
| 555 | 50 | HDR biased | 1.2947 | 1.2874 | -0.0073 |

TID vs Post - Pre Exposure Delta

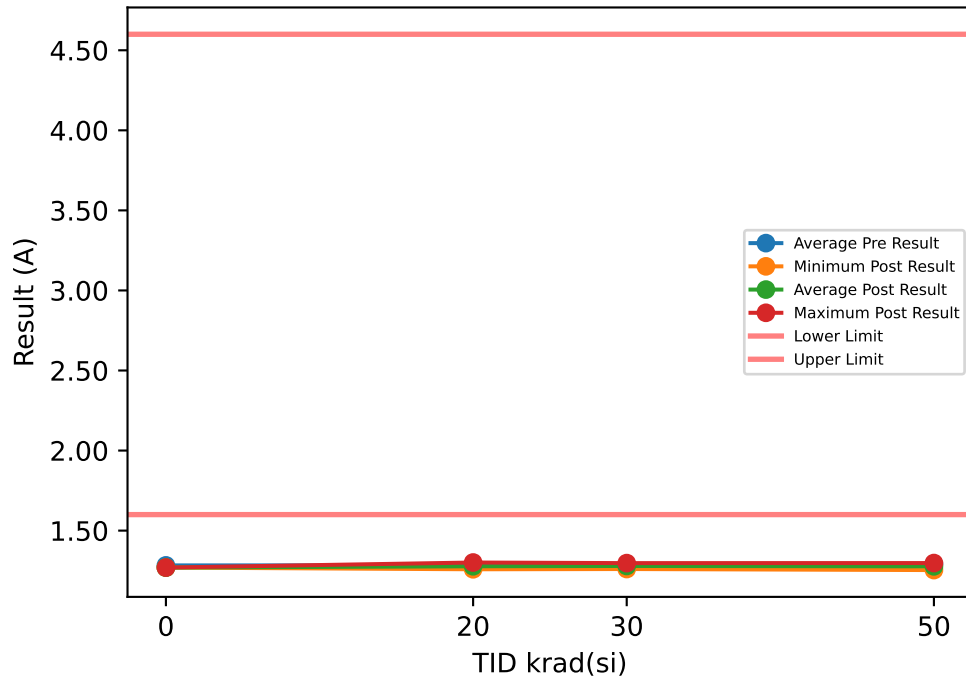


Test Statistics (A)

| 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 | 1.2795 | 1.2795 | 1.2795 | | 1.2672 | 1.2672 | 1.2672 | | -0.0123 | -0.0123 | -0.0123 | |
| 20 | 1.2615 | 1.2846 | 1.3057 | 0.01525 | 1.2582 | 1.2789 | 1.298 | 0.013135 | -0.0104 | -0.00566 | -0.0002 | 0.0033231 |
| 30 | 1.2655 | 1.2825 | 1.3026 | 0.011077 | 1.2558 | 1.2755 | 1.2941 | 0.011875 | -0.0262 | -0.00694 | 0.0192 | 0.012759 |
| 50 | 1.2619 | 1.29 | 1.3069 | 0.01646 | 1.255 | 1.2776 | 1.2906 | 0.012956 | -0.0215 | -0.0124 | -0.0069 | 0.0055974 |

Device Test: 51.1 I_OL(IOH HO VIN_12V)

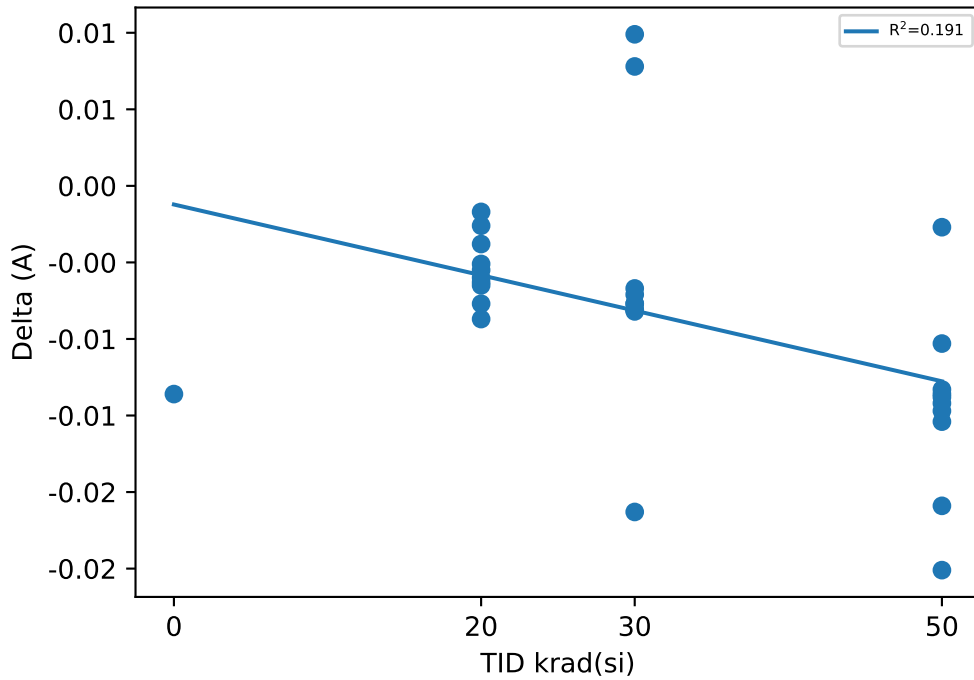
TID vs Result Stats



Test Results (Lower Limit = 1.6, Upper Limit = 4.6 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.2828 | 1.2692 | -0.0136 |
| 321 | 20 | HDR unbiased | 1.297 | 1.2915 | -0.0055 |
| 322 | 20 | HDR unbiased | 1.286 | 1.28 | -0.006 |
| 323 | 20 | HDR unbiased | 1.3043 | 1.2966 | -0.0077 |
| 324 | 20 | HDR unbiased | 1.2785 | 1.2747 | -0.0038 |
| 325 | 20 | HDR unbiased | 1.3059 | 1.3008 | -0.0051 |
| 331 | 30 | HDR unbiased | 1.2956 | 1.2874 | -0.0082 |
| 332 | 30 | HDR unbiased | 1.283 | 1.2763 | -0.0067 |
| 333 | 30 | HDR unbiased | 1.3047 | 1.297 | -0.0077 |
| 334 | 30 | HDR unbiased | 1.2915 | 1.2838 | -0.0077 |
| 335 | 30 | HDR unbiased | 1.3041 | 1.296 | -0.0081 |
| 351 | 50 | HDR unbiased | 1.2944 | 1.2917 | -0.0027 |
| 352 | 50 | HDR unbiased | 1.3128 | 1.2974 | -0.0154 |
| 353 | 50 | HDR unbiased | 1.3053 | 1.2802 | -0.0251 |
| 354 | 50 | HDR unbiased | 1.3102 | 1.2893 | -0.0209 |
| 355 | 50 | HDR unbiased | 1.3037 | 1.2934 | -0.0103 |
| 521 | 20 | HDR biased | 1.2666 | 1.2603 | -0.0063 |
| 522 | 20 | HDR biased | 1.2611 | 1.2585 | -0.0026 |
| 523 | 20 | HDR biased | 1.2656 | 1.2591 | -0.0065 |
| 524 | 20 | HDR biased | 1.2838 | 1.2751 | -0.0087 |
| 525 | 20 | HDR biased | 1.2789 | 1.2772 | -0.0017 |
| 531 | 30 | HDR biased | 1.2814 | 1.2601 | -0.0213 |
| 532 | 30 | HDR biased | 1.2747 | 1.2846 | 0.0099 |
| 533 | 30 | HDR biased | 1.2741 | 1.266 | -0.0081 |
| 534 | 30 | HDR biased | 1.2749 | 1.2678 | -0.0071 |
| 535 | 30 | HDR biased | 1.2659 | 1.2737 | 0.0078 |
| 551 | 50 | HDR biased | 1.2694 | 1.2558 | -0.0136 |
| 552 | 50 | HDR biased | 1.2696 | 1.2558 | -0.0138 |
| 553 | 50 | HDR biased | 1.2682 | 1.2535 | -0.0147 |
| 554 | 50 | HDR biased | 1.2802 | 1.266 | -0.0142 |
| 555 | 50 | HDR biased | 1.2996 | 1.2863 | -0.0133 |

TID vs Post - Pre Exposure Delta

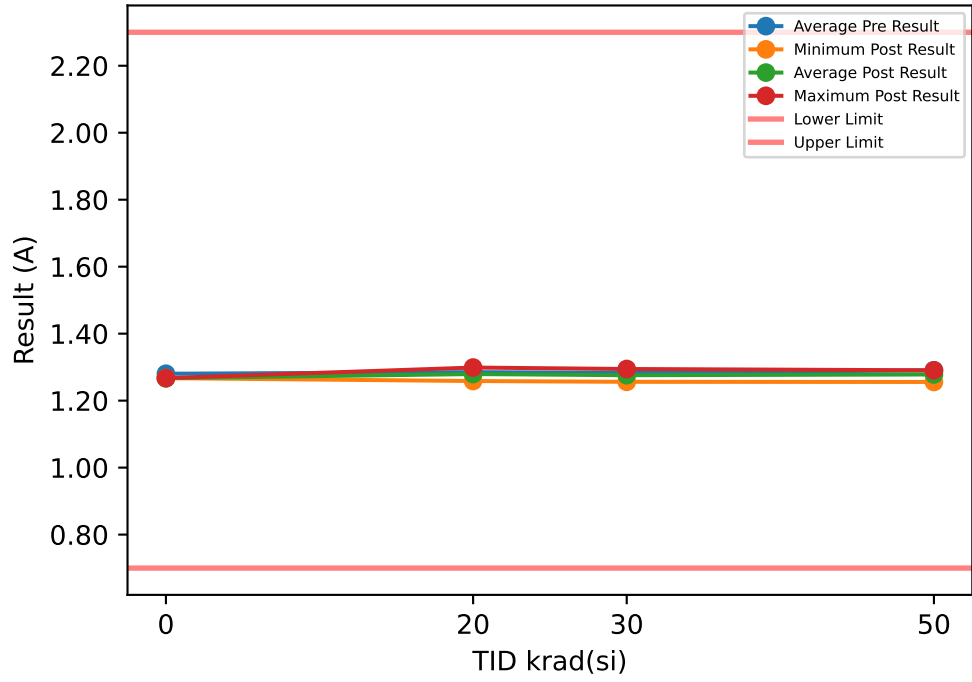


Test Statistics (A)

| 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 | 1.2828 | 1.2828 | 1.2828 | | 1.2692 | 1.2692 | 1.2692 | | -0.0136 | -0.0136 | -0.0136 | |
| 20 | 1.2611 | 1.2828 | 1.3059 | 0.015887 | 1.2585 | 1.2774 | 1.3008 | 0.015344 | -0.0087 | -0.00539 | -0.0017 | 0.0021794 |
| 30 | 1.2659 | 1.285 | 1.3047 | 0.013401 | 1.2601 | 1.2793 | 1.297 | 0.01258 | -0.0213 | -0.00572 | 0.0099 | 0.0088046 |
| 50 | 1.2682 | 1.2913 | 1.3128 | 0.017811 | 1.2535 | 1.2769 | 1.2974 | 0.017389 | -0.0251 | -0.0144 | -0.0027 | 0.0059046 |

Device Test: 52.0 I_OH(IOH LO VIN_14V)

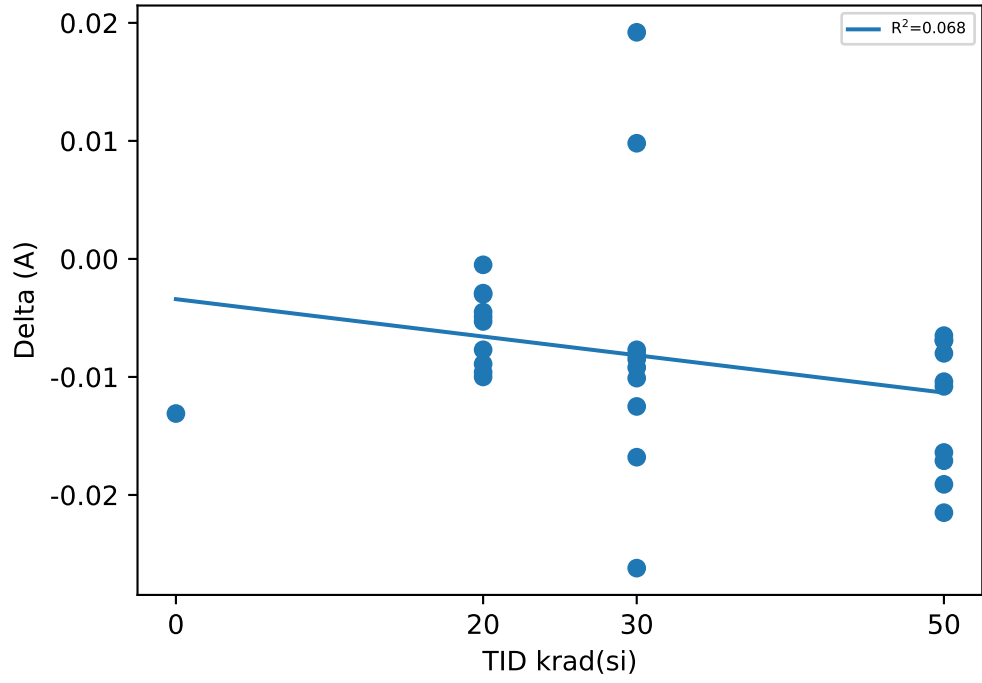
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 2.3 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.2803 | 1.2672 | -0.0131 |
| 321 | 20 | HDR unbiased | 1.2951 | 1.2862 | -0.0089 |
| 322 | 20 | HDR unbiased | 1.301 | 1.2914 | -0.0096 |
| 323 | 20 | HDR unbiased | 1.2911 | 1.2811 | -0.01 |
| 324 | 20 | HDR unbiased | 1.3065 | 1.2988 | -0.0077 |
| 325 | 20 | HDR unbiased | 1.2939 | 1.289 | -0.0049 |
| 331 | 30 | HDR unbiased | 1.2868 | 1.2791 | -0.0077 |
| 332 | 30 | HDR unbiased | 1.303 | 1.2945 | -0.0085 |
| 333 | 30 | HDR unbiased | 1.2809 | 1.2728 | -0.0081 |
| 334 | 30 | HDR unbiased | 1.2959 | 1.2858 | -0.0101 |
| 335 | 30 | HDR unbiased | 1.2876 | 1.2751 | -0.0125 |
| 351 | 50 | HDR unbiased | 1.3002 | 1.2894 | -0.0108 |
| 352 | 50 | HDR unbiased | 1.2978 | 1.2787 | -0.0191 |
| 353 | 50 | HDR unbiased | 1.3069 | 1.2854 | -0.0215 |
| 354 | 50 | HDR unbiased | 1.3062 | 1.2898 | -0.0164 |
| 355 | 50 | HDR unbiased | 1.3077 | 1.2906 | -0.0171 |
| 521 | 20 | HDR biased | 1.2714 | 1.2669 | -0.0045 |
| 522 | 20 | HDR biased | 1.2639 | 1.2609 | -0.003 |
| 523 | 20 | HDR biased | 1.2615 | 1.2586 | -0.0029 |
| 524 | 20 | HDR biased | 1.2844 | 1.2791 | -0.0053 |
| 525 | 20 | HDR biased | 1.282 | 1.2815 | -0.0005 |
| 531 | 30 | HDR biased | 1.2824 | 1.2562 | -0.0262 |
| 532 | 30 | HDR biased | 1.2702 | 1.2894 | 0.0192 |
| 533 | 30 | HDR biased | 1.2789 | 1.2621 | -0.0168 |
| 534 | 30 | HDR biased | 1.2781 | 1.2689 | -0.0092 |
| 535 | 30 | HDR biased | 1.2658 | 1.2756 | 0.0098 |
| 551 | 50 | HDR biased | 1.2769 | 1.2665 | -0.0104 |
| 552 | 50 | HDR biased | 1.2623 | 1.2558 | -0.0065 |
| 553 | 50 | HDR biased | 1.2694 | 1.2614 | -0.008 |
| 554 | 50 | HDR biased | 1.282 | 1.2751 | -0.0069 |
| 555 | 50 | HDR biased | 1.2955 | 1.2886 | -0.0069 |

TID vs Post - Pre Exposure Delta

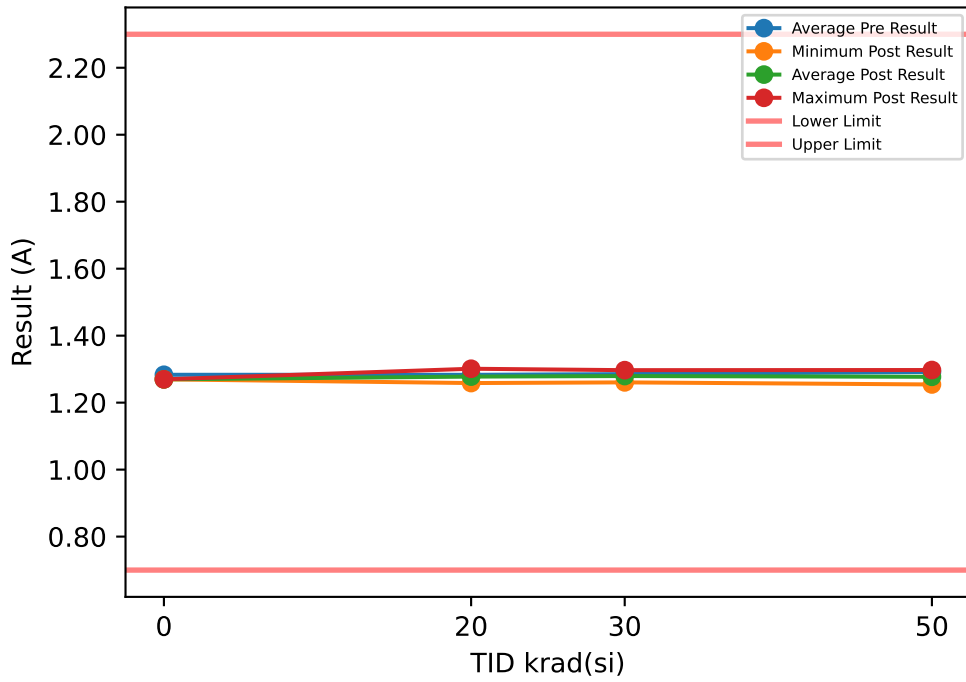


Test Statistics (A)

| 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 | 1.2803 | 1.2803 | 1.2803 | | 1.2672 | 1.2672 | 1.2672 | | -0.0131 | -0.0131 | -0.0131 | |
| 20 | 1.2615 | 1.2851 | 1.3065 | 0.015378 | 1.2586 | 1.2793 | 1.2988 | 0.013322 | -0.01 | -0.00573 | -0.0005 | 0.0032031 |
| 30 | 1.2658 | 1.283 | 1.303 | 0.011092 | 1.2562 | 1.2759 | 1.2945 | 0.011899 | -0.0262 | -0.00701 | 0.0192 | 0.012832 |
| 50 | 1.2623 | 1.2905 | 1.3077 | 0.016604 | 1.2558 | 1.2781 | 1.2906 | 0.012929 | -0.0215 | -0.01236 | -0.0065 | 0.0056471 |

Device Test: 52.1 I_OH(IOH HO VIN_14V)

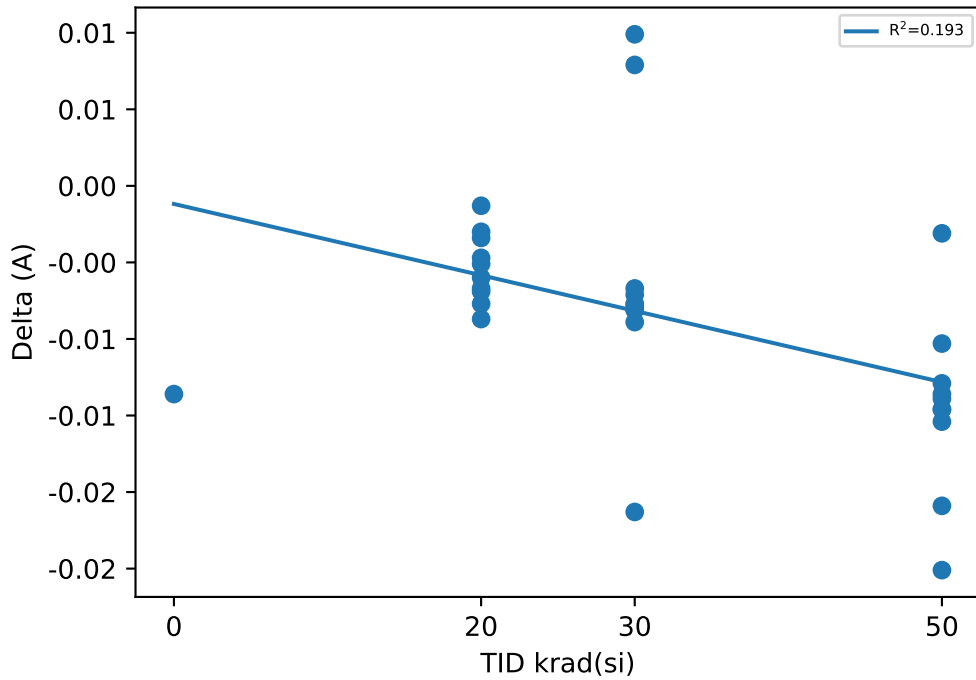
TID vs Result Stats



Test Results (Lower Limit = 0.7, Upper Limit = 2.3 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 1.2832 | 1.2696 | -0.0136 |
| 321 | 20 | HDR unbiased | 1.297 | 1.2919 | -0.0051 |
| 322 | 20 | HDR unbiased | 1.2864 | 1.2804 | -0.006 |
| 323 | 20 | HDR unbiased | 1.3047 | 1.297 | -0.0077 |
| 324 | 20 | HDR unbiased | 1.2785 | 1.2751 | -0.0034 |
| 325 | 20 | HDR unbiased | 1.3059 | 1.3012 | -0.0047 |
| 331 | 30 | HDR unbiased | 1.2952 | 1.2874 | -0.0078 |
| 332 | 30 | HDR unbiased | 1.2834 | 1.2763 | -0.0071 |
| 333 | 30 | HDR unbiased | 1.3047 | 1.297 | -0.0077 |
| 334 | 30 | HDR unbiased | 1.2919 | 1.2838 | -0.0081 |
| 335 | 30 | HDR unbiased | 1.3049 | 1.296 | -0.0089 |
| 351 | 50 | HDR unbiased | 1.2948 | 1.2917 | -0.0031 |
| 352 | 50 | HDR unbiased | 1.3128 | 1.2974 | -0.0154 |
| 353 | 50 | HDR unbiased | 1.3057 | 1.2806 | -0.0251 |
| 354 | 50 | HDR unbiased | 1.3102 | 1.2893 | -0.0209 |
| 355 | 50 | HDR unbiased | 1.3041 | 1.2938 | -0.0103 |
| 521 | 20 | HDR biased | 1.2674 | 1.2607 | -0.0067 |
| 522 | 20 | HDR biased | 1.2615 | 1.2585 | -0.003 |
| 523 | 20 | HDR biased | 1.2664 | 1.2595 | -0.0069 |
| 524 | 20 | HDR biased | 1.2838 | 1.2751 | -0.0087 |
| 525 | 20 | HDR biased | 1.2793 | 1.278 | -0.0013 |
| 531 | 30 | HDR biased | 1.2818 | 1.2605 | -0.0213 |
| 532 | 30 | HDR biased | 1.2747 | 1.2846 | 0.0099 |
| 533 | 30 | HDR biased | 1.2745 | 1.2664 | -0.0081 |
| 534 | 30 | HDR biased | 1.2745 | 1.2678 | -0.0067 |
| 535 | 30 | HDR biased | 1.2662 | 1.2741 | 0.0079 |
| 551 | 50 | HDR biased | 1.2698 | 1.2562 | -0.0136 |
| 552 | 50 | HDR biased | 1.2704 | 1.2558 | -0.0146 |
| 553 | 50 | HDR biased | 1.2682 | 1.2543 | -0.0139 |
| 554 | 50 | HDR biased | 1.2806 | 1.266 | -0.0146 |
| 555 | 50 | HDR biased | 1.2996 | 1.2867 | -0.0129 |

TID vs Post - Pre Exposure Delta

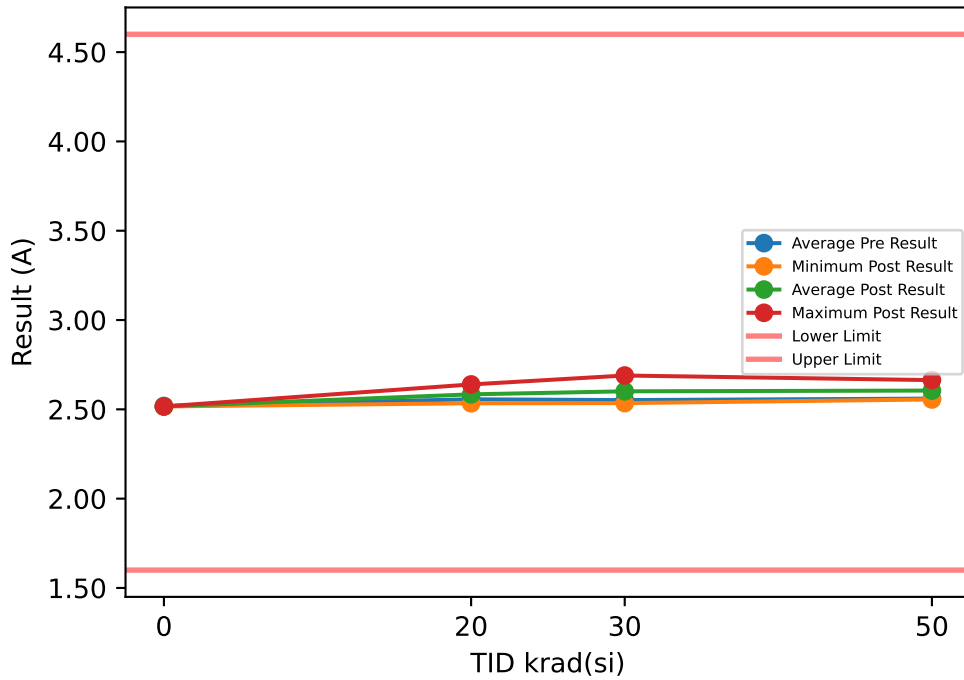


Test Statistics (A)

| 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 | 1.2832 | 1.2832 | 1.2832 | | 1.2696 | 1.2696 | 1.2696 | | -0.0136 | -0.0136 | -0.0136 | |
| 20 | 1.2615 | 1.2831 | 1.3059 | 0.0157 | 1.2585 | 1.2777 | 1.3012 | 0.015406 | -0.0087 | -0.00535 | -0.0013 | 0.0022999 |
| 30 | 1.2662 | 1.2852 | 1.3049 | 0.013451 | 1.2605 | 1.2794 | 1.297 | 0.012446 | -0.0213 | -0.00579 | 0.0099 | 0.0088489 |
| 50 | 1.2682 | 1.2916 | 1.3128 | 0.017695 | 1.2543 | 1.2772 | 1.2974 | 0.017291 | -0.0251 | -0.01444 | -0.0031 | 0.0058257 |

Device Test: 52.2 I_OL(I_OL LO VIN_14V)

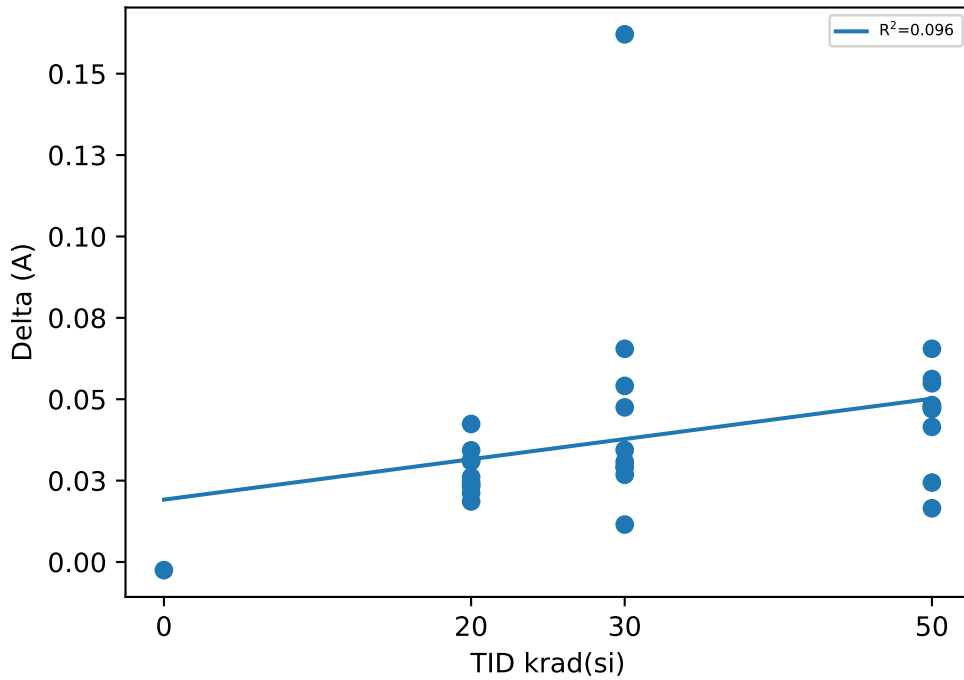
TID vs Result Stats



Test Results (Lower Limit = 1.6, Upper Limit = 4.6 (A))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.5187 | 2.5162 | -0.0025 |
| 321 | 20 | HDR unbiased | 2.6008 | 2.6253 | 0.0245 |
| 322 | 20 | HDR unbiased | 2.5965 | 2.6198 | 0.0233 |
| 323 | 20 | HDR unbiased | 2.5925 | 2.6186 | 0.0261 |
| 324 | 20 | HDR unbiased | 2.6158 | 2.6394 | 0.0236 |
| 325 | 20 | HDR unbiased | 2.5957 | 2.6169 | 0.0212 |
| 331 | 30 | HDR unbiased | 2.5925 | 2.6217 | 0.0292 |
| 332 | 30 | HDR unbiased | 2.5953 | 2.6221 | 0.0268 |
| 333 | 30 | HDR unbiased | 2.5965 | 2.6309 | 0.0344 |
| 334 | 30 | HDR unbiased | 2.6067 | 2.6375 | 0.0308 |
| 335 | 30 | HDR unbiased | 2.5949 | 2.624 | 0.0291 |
| 351 | 50 | HDR unbiased | 2.6162 | 2.6327 | 0.0165 |
| 352 | 50 | HDR unbiased | 2.6221 | 2.6636 | 0.0415 |
| 353 | 50 | HDR unbiased | 2.5909 | 2.6564 | 0.0655 |
| 354 | 50 | HDR unbiased | 2.6048 | 2.6292 | 0.0244 |
| 355 | 50 | HDR unbiased | 2.5901 | 2.6463 | 0.0562 |
| 521 | 20 | HDR biased | 2.5103 | 2.5416 | 0.0313 |
| 522 | 20 | HDR biased | 2.5194 | 2.5537 | 0.0343 |
| 523 | 20 | HDR biased | 2.5143 | 2.5452 | 0.0309 |
| 524 | 20 | HDR biased | 2.5154 | 2.534 | 0.0186 |
| 525 | 20 | HDR biased | 2.502 | 2.5444 | 0.0424 |
| 531 | 30 | HDR biased | 2.5044 | 2.5585 | 0.0541 |
| 532 | 30 | HDR biased | 2.5273 | 2.6894 | 0.1621 |
| 533 | 30 | HDR biased | 2.4894 | 2.5549 | 0.0655 |
| 534 | 30 | HDR biased | 2.4874 | 2.5349 | 0.0475 |
| 535 | 30 | HDR biased | 2.5238 | 2.5353 | 0.0115 |
| 551 | 50 | HDR biased | 2.5131 | 2.5601 | 0.047 |
| 552 | 50 | HDR biased | 2.5182 | 2.566 | 0.0478 |
| 553 | 50 | HDR biased | 2.5163 | 2.5712 | 0.0549 |
| 554 | 50 | HDR biased | 2.5071 | 2.5553 | 0.0482 |
| 555 | 50 | HDR biased | 2.5226 | 2.5701 | 0.0475 |

TID vs Post - Pre Exposure Delta

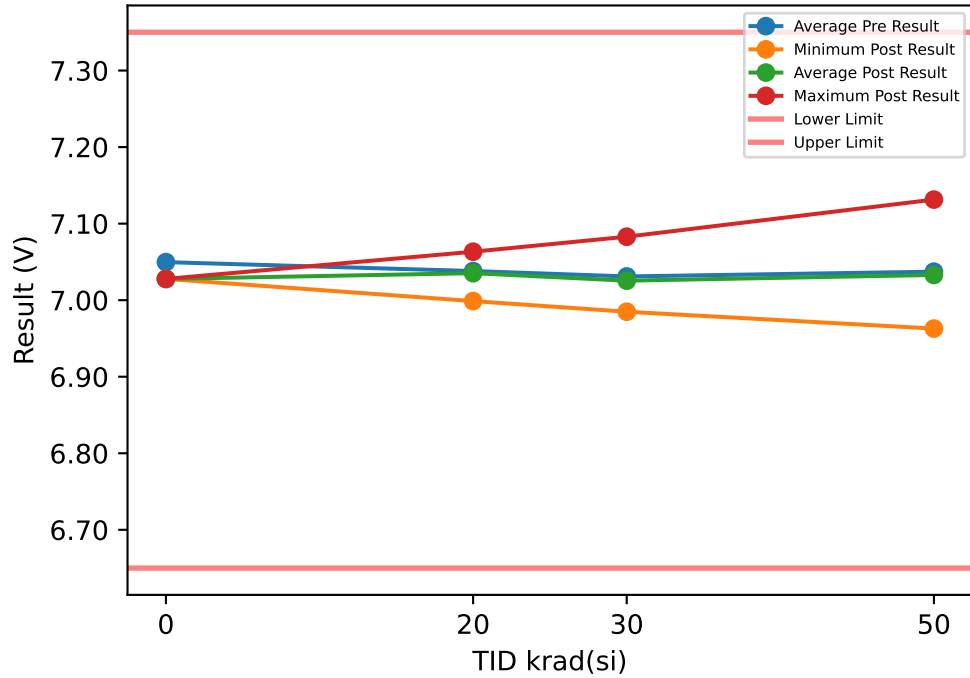


Test Statistics (A)

| 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 | 2.5187 | 2.5187 | 2.5187 | | 2.5162 | 2.5162 | 2.5162 | | -0.0025 | -0.0025 | -0.0025 | |
| 20 | 2.502 | 2.5563 | 2.6158 | 0.046978 | 2.534 | 2.5839 | 2.6394 | 0.04298 | 0.0186 | 0.02762 | 0.0424 | 0.0071244 |
| 30 | 2.4874 | 2.5518 | 2.6067 | 0.049543 | 2.5349 | 2.6009 | 2.6894 | 0.051705 | 0.0115 | 0.0491 | 0.1621 | 0.042588 |
| 50 | 2.5071 | 2.5601 | 2.6221 | 0.048231 | 2.5553 | 2.6051 | 2.6636 | 0.044098 | 0.0165 | 0.04495 | 0.0655 | 0.014609 |

Device Test: 60.0 V_BP7L(V_BP7L PWM 500kHz VIN_10V)

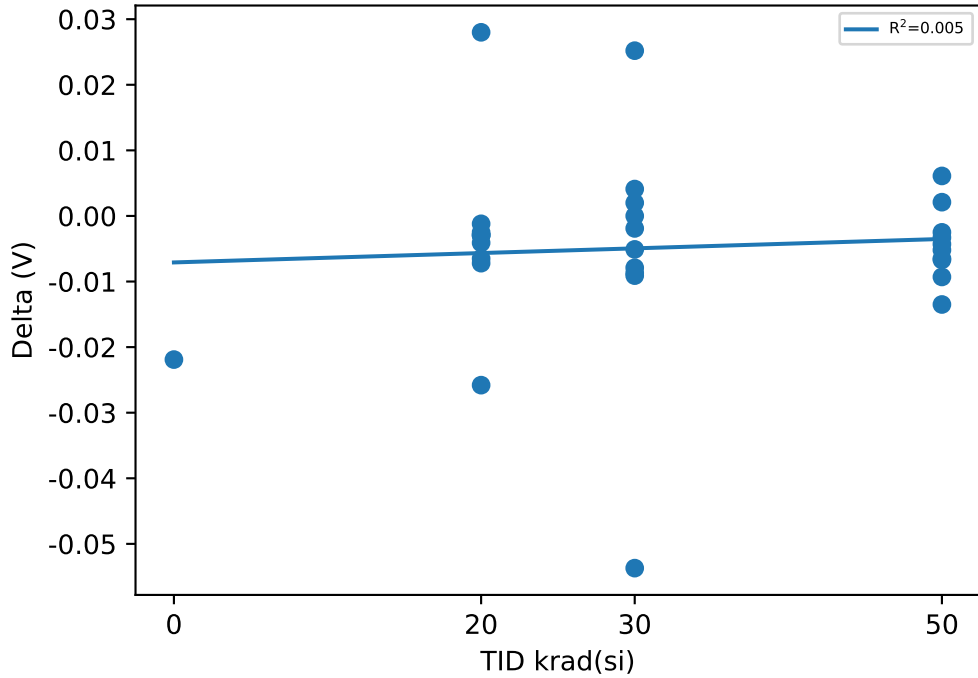
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0497 | 7.0278 | -0.0219 |
| 321 | 20 | HDR unbiased | 7.0674 | 7.0633 | -0.0041 |
| 322 | 20 | HDR unbiased | 7.0599 | 7.0574 | -0.0025 |
| 323 | 20 | HDR unbiased | 7.0118 | 7.0046 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.028 | 7.0251 | -0.0029 |
| 325 | 20 | HDR unbiased | 7.0632 | 7.0602 | -0.003 |
| 331 | 30 | HDR unbiased | 7.0065 | 7.0014 | -0.0051 |
| 332 | 30 | HDR unbiased | 6.994 | 6.9849 | -0.0091 |
| 333 | 30 | HDR unbiased | 7.0273 | 7.0194 | -0.0079 |
| 334 | 30 | HDR unbiased | 7.0202 | 7.0243 | 0.0041 |
| 335 | 30 | HDR unbiased | 6.9849 | 6.9869 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0053 | 7.0114 | 0.0061 |
| 352 | 50 | HDR unbiased | 6.9672 | 6.9629 | -0.0043 |
| 353 | 50 | HDR unbiased | 7.0147 | 7.0012 | -0.0135 |
| 354 | 50 | HDR unbiased | 7.0687 | 7.0654 | -0.0033 |
| 355 | 50 | HDR unbiased | 7.0663 | 7.0684 | 0.0021 |
| 521 | 20 | HDR biased | 7.0084 | 7.0019 | -0.0065 |
| 522 | 20 | HDR biased | 7.0522 | 7.051 | -0.0012 |
| 523 | 20 | HDR biased | 7.0017 | 6.9988 | -0.0029 |
| 524 | 20 | HDR biased | 7.0585 | 7.0327 | -0.0258 |
| 525 | 20 | HDR biased | 7.0296 | 7.0576 | 0.028 |
| 531 | 30 | HDR biased | 7.0629 | 7.0542 | -0.0087 |
| 532 | 30 | HDR biased | 7.0103 | 7.0355 | 0.0252 |
| 533 | 30 | HDR biased | 7.0563 | 7.0026 | -0.0537 |
| 534 | 30 | HDR biased | 7.0848 | 7.0829 | -0.0019 |
| 535 | 30 | HDR biased | 7.0627 | 7.0627 | 0 |
| 551 | 50 | HDR biased | 7.0234 | 7.0209 | -0.0025 |
| 552 | 50 | HDR biased | 7.0499 | 7.0447 | -0.0052 |
| 553 | 50 | HDR biased | 7.0248 | 7.0181 | -0.0067 |
| 554 | 50 | HDR biased | 7.0113 | 7.0048 | -0.0065 |
| 555 | 50 | HDR biased | 7.1407 | 7.1314 | -0.0093 |

TID vs Post - Pre Exposure Delta

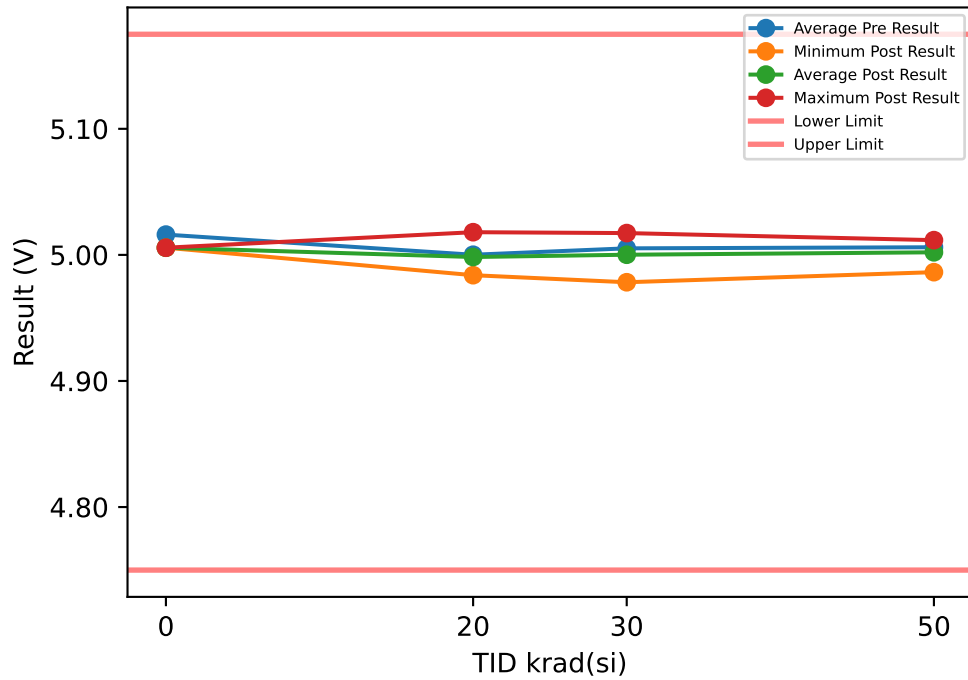


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0497 | 7.0497 | 7.0497 | | 7.0278 | 7.0278 | 7.0278 | | -0.0219 | -0.0219 | -0.0219 | |
| 20 | 7.0017 | 7.0381 | 7.0674 | 0.025059 | 6.9988 | 7.0353 | 7.0633 | 0.026114 | -0.0258 | -0.00281 | 0.028 | 0.012975 |
| 30 | 6.9849 | 7.031 | 7.0848 | 0.033682 | 6.9849 | 7.0255 | 7.0829 | 0.03314 | -0.0537 | -0.00551 | 0.0252 | 0.019682 |
| 50 | 6.9672 | 7.0372 | 7.1407 | 0.047319 | 6.9629 | 7.0329 | 7.1314 | 0.046759 | -0.0135 | -0.00431 | 0.0061 | 0.0055218 |

Device Test: 60.1 V_BP5L(V_BP5L PWM 500kHz VIN_10V)

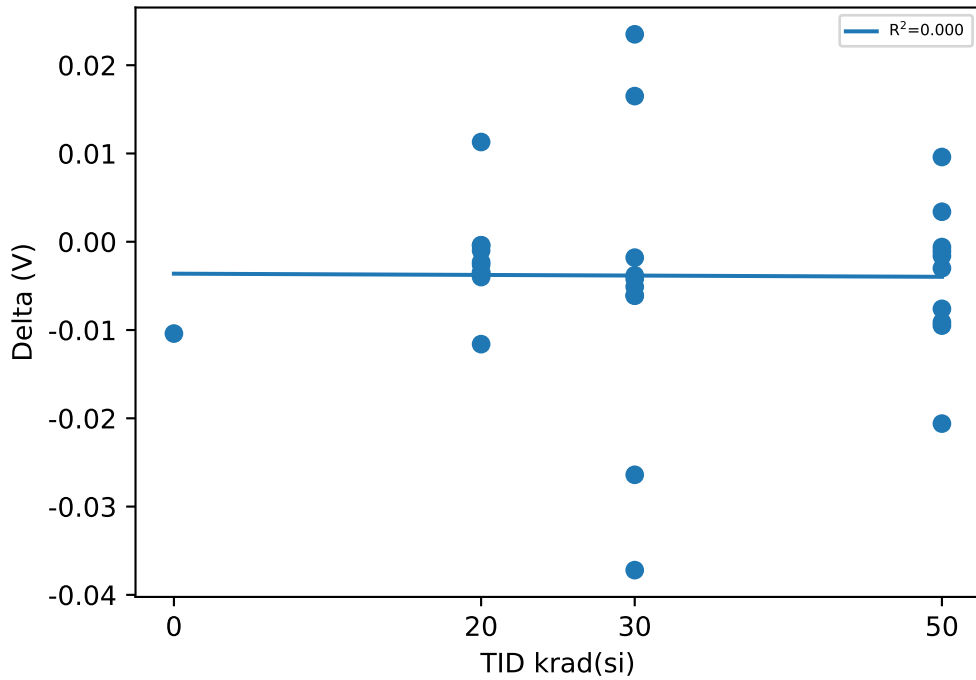
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0161 | 5.0057 | -0.0104 |
| 321 | 20 | HDR unbiased | 4.9892 | 4.9888 | -0.0004 |
| 322 | 20 | HDR unbiased | 5.0158 | 5.0135 | -0.0023 |
| 323 | 20 | HDR unbiased | 4.9965 | 4.9961 | -0.0004 |
| 324 | 20 | HDR unbiased | 4.9944 | 4.9909 | -0.0035 |
| 325 | 20 | HDR unbiased | 5.0021 | 4.9986 | -0.0035 |
| 331 | 30 | HDR unbiased | 4.9989 | 4.9938 | -0.0051 |
| 332 | 30 | HDR unbiased | 5 | 4.9958 | -0.0042 |
| 333 | 30 | HDR unbiased | 5.0135 | 5.0074 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9964 | 4.9903 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.018 | 5.0162 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0104 | 4.9898 | -0.0206 |
| 352 | 50 | HDR unbiased | 4.9958 | 4.9863 | -0.0095 |
| 353 | 50 | HDR unbiased | 4.9934 | 5.003 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0107 | 5.0096 | -0.0011 |
| 355 | 50 | HDR unbiased | 5.0178 | 5.0087 | -0.0091 |
| 521 | 20 | HDR biased | 5.022 | 5.018 | -0.004 |
| 522 | 20 | HDR biased | 4.9927 | 4.9901 | -0.0026 |
| 523 | 20 | HDR biased | 4.9849 | 4.9839 | -0.001 |
| 524 | 20 | HDR biased | 4.9962 | 5.0075 | 0.0113 |
| 525 | 20 | HDR biased | 5.0074 | 4.9958 | -0.0116 |
| 531 | 30 | HDR biased | 5.0047 | 4.9783 | -0.0264 |
| 532 | 30 | HDR biased | 5.0216 | 4.9844 | -0.0372 |
| 533 | 30 | HDR biased | 4.9926 | 5.0161 | 0.0235 |
| 534 | 30 | HDR biased | 5.0211 | 5.0173 | -0.0038 |
| 535 | 30 | HDR biased | 4.9852 | 5.0017 | 0.0165 |
| 551 | 50 | HDR biased | 5.0002 | 4.9996 | -0.0006 |
| 552 | 50 | HDR biased | 5.0029 | 5.0013 | -0.0016 |
| 553 | 50 | HDR biased | 5.0147 | 5.0117 | -0.003 |
| 554 | 50 | HDR biased | 5.0151 | 5.0075 | -0.0076 |
| 555 | 50 | HDR biased | 4.9996 | 5.003 | 0.0034 |

TID vs Post - Pre Exposure Delta

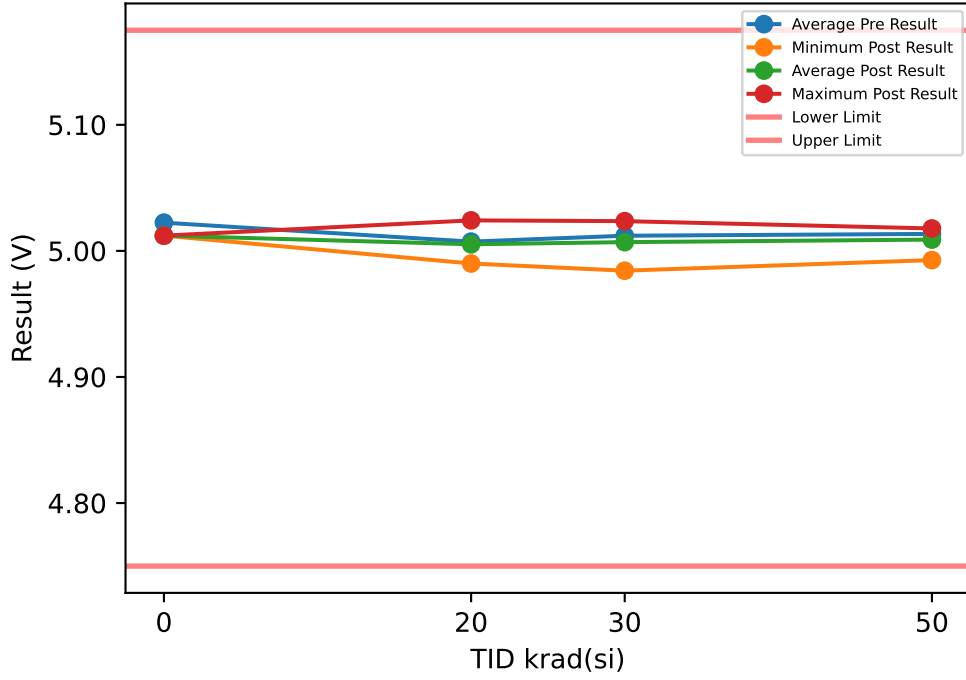


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0161 | 5.0161 | 5.0161 | | 5.0057 | 5.0057 | 5.0057 | | -0.0104 | -0.0104 | -0.0104 | |
| 20 | 4.9849 | 5.0001 | 5.022 | 0.011779 | 4.9839 | 4.9983 | 5.018 | 0.011228 | -0.0116 | -0.0018 | 0.0113 | 0.0056147 |
| 30 | 4.9852 | 5.0052 | 5.0216 | 0.012727 | 4.9783 | 5.0001 | 5.0173 | 0.013916 | -0.0372 | -0.00507 | 0.0235 | 0.017588 |
| 50 | 4.9934 | 5.0061 | 5.0178 | 0.0087316 | 4.9863 | 5.002 | 5.0117 | 0.0083702 | -0.0206 | -0.00401 | 0.0096 | 0.008241 |

Device Test: 60.10 V_BP5L(_V_BP5L PWM 5MHz VIN_10V)

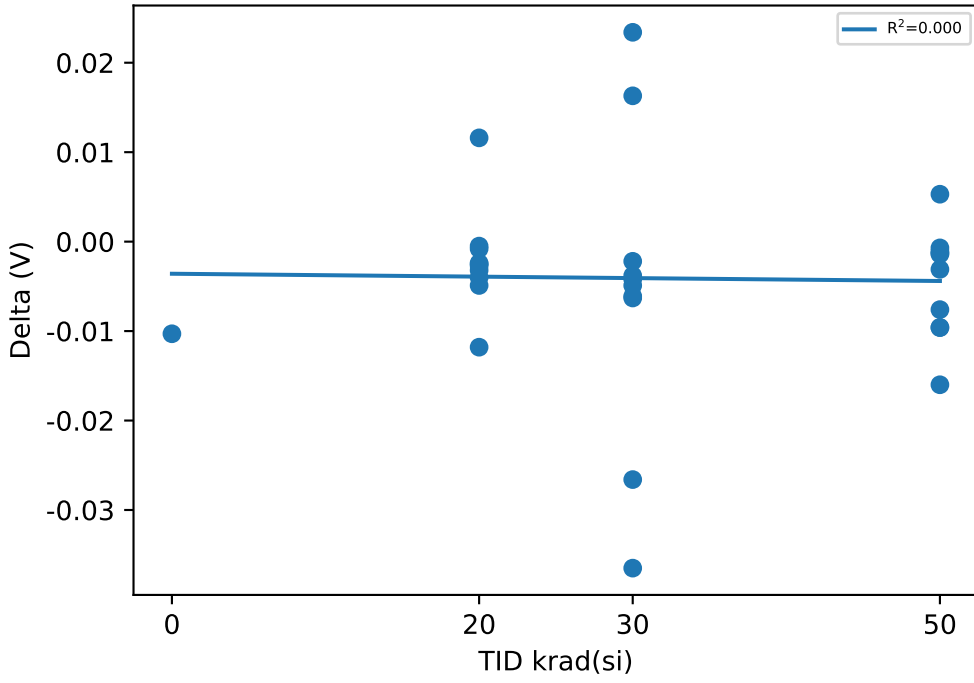
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0224 | 5.0121 | -0.0103 |
| 321 | 20 | HDR unbiased | 4.996 | 4.9955 | -0.0005 |
| 322 | 20 | HDR unbiased | 5.0226 | 5.0201 | -0.0025 |
| 323 | 20 | HDR unbiased | 5.0075 | 5.0026 | -0.0049 |
| 324 | 20 | HDR unbiased | 5.0051 | 5.0027 | -0.0024 |
| 325 | 20 | HDR unbiased | 5.0088 | 5.0056 | -0.0032 |
| 331 | 30 | HDR unbiased | 5.005 | 5.0001 | -0.0049 |
| 332 | 30 | HDR unbiased | 5.0103 | 5.0061 | -0.0042 |
| 333 | 30 | HDR unbiased | 5.0202 | 5.0141 | -0.0061 |
| 334 | 30 | HDR unbiased | 5.003 | 4.9967 | -0.0063 |
| 335 | 30 | HDR unbiased | 5.0255 | 5.0233 | -0.0022 |
| 351 | 50 | HDR unbiased | 5.0165 | 5.0005 | -0.016 |
| 352 | 50 | HDR unbiased | 5.0023 | 4.9927 | -0.0096 |
| 353 | 50 | HDR unbiased | 5.0038 | 5.0091 | 0.0053 |
| 354 | 50 | HDR unbiased | 5.0176 | 5.0169 | -0.0007 |
| 355 | 50 | HDR unbiased | 5.0253 | 5.0157 | -0.0096 |
| 521 | 20 | HDR biased | 5.0282 | 5.0242 | -0.004 |
| 522 | 20 | HDR biased | 4.9991 | 4.9964 | -0.0027 |
| 523 | 20 | HDR biased | 4.9908 | 4.99 | -0.0008 |
| 524 | 20 | HDR biased | 5.0018 | 5.0134 | 0.0116 |
| 525 | 20 | HDR biased | 5.0136 | 5.0018 | -0.0118 |
| 531 | 30 | HDR biased | 5.0109 | 4.9843 | -0.0266 |
| 532 | 30 | HDR biased | 5.0277 | 4.9912 | -0.0365 |
| 533 | 30 | HDR biased | 4.9988 | 5.0222 | 0.0234 |
| 534 | 30 | HDR biased | 5.0274 | 5.0236 | -0.0038 |
| 535 | 30 | HDR biased | 4.9915 | 5.0078 | 0.0163 |
| 551 | 50 | HDR biased | 5.0065 | 5.0054 | -0.0011 |
| 552 | 50 | HDR biased | 5.0089 | 5.0076 | -0.0013 |
| 553 | 50 | HDR biased | 5.0209 | 5.0178 | -0.0031 |
| 554 | 50 | HDR biased | 5.0213 | 5.0137 | -0.0076 |
| 555 | 50 | HDR biased | 5.0116 | 5.0102 | -0.0014 |

TID vs Post - Pre Exposure Delta

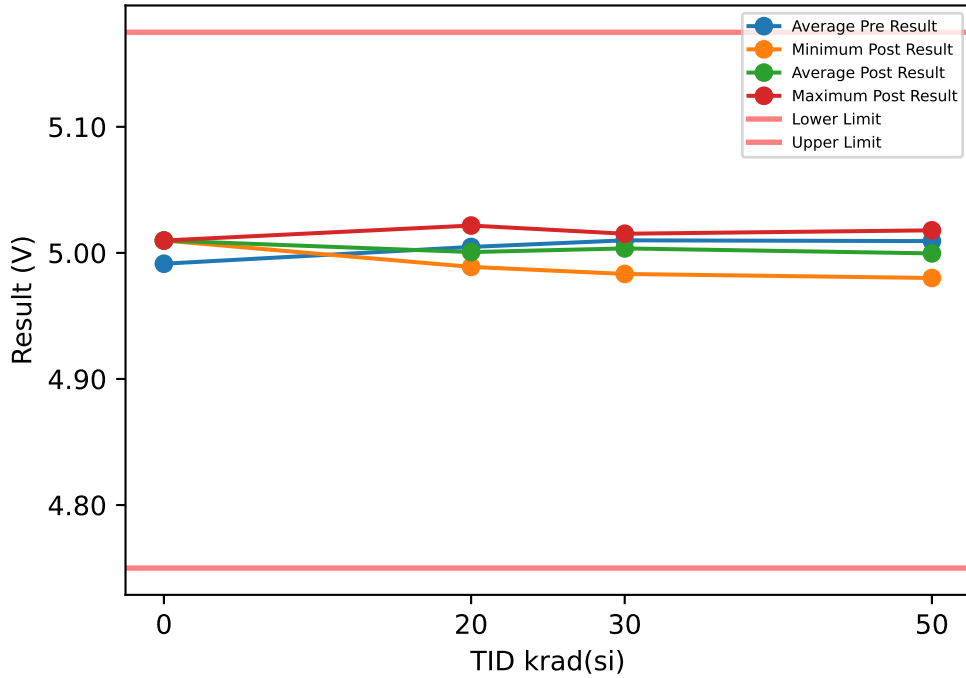


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0224 | 5.0224 | 5.0224 | | 5.0121 | 5.0121 | 5.0121 | | -0.0103 | -0.0103 | -0.0103 | |
| 20 | 4.9908 | 5.0074 | 5.0282 | 0.01162 | 4.99 | 5.0052 | 5.0242 | 0.010942 | -0.0118 | -0.00212 | 0.0116 | 0.0057667 |
| 30 | 4.9915 | 5.012 | 5.0277 | 0.012744 | 4.9843 | 5.0069 | 5.0236 | 0.013915 | -0.0365 | -0.00509 | 0.0234 | 0.017422 |
| 50 | 5.0023 | 5.0135 | 5.0253 | 0.0079857 | 4.9927 | 5.009 | 5.0178 | 0.007896 | -0.016 | -0.00451 | 0.0053 | 0.0061258 |

Device Test: 60.11 V_BP5H(_V_BP5H PWM 5MHz VIN_10V)

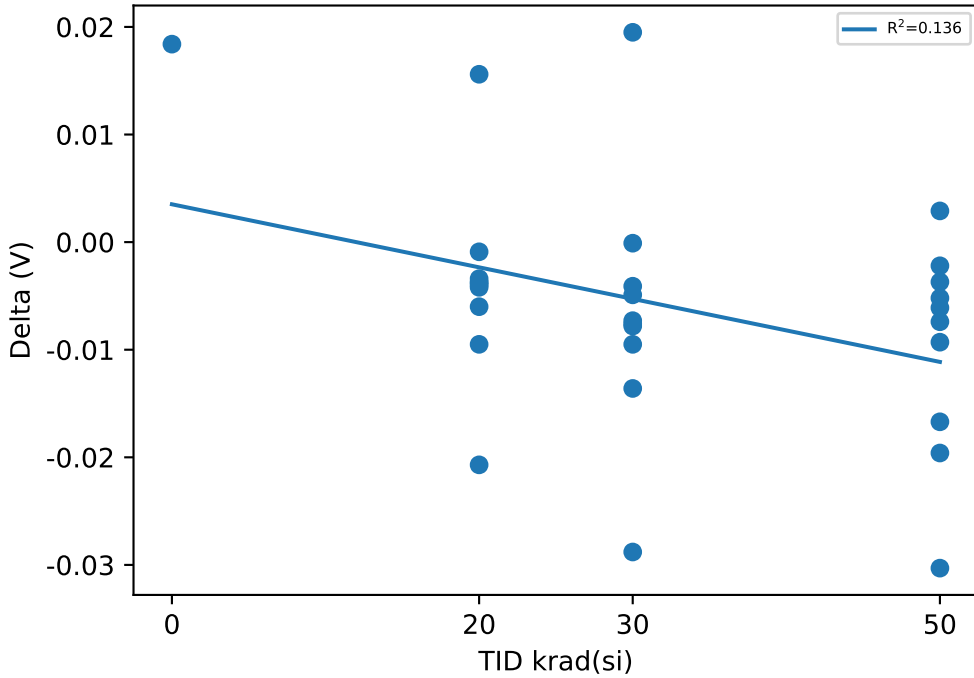
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9914 | 5.0098 | 0.0184 |
| 321 | 20 | HDR unbiased | 4.9961 | 4.9921 | -0.004 |
| 322 | 20 | HDR unbiased | 5.0259 | 5.0217 | -0.0042 |
| 323 | 20 | HDR unbiased | 5.0135 | 5.004 | -0.0095 |
| 324 | 20 | HDR unbiased | 4.9981 | 4.9943 | -0.0038 |
| 325 | 20 | HDR unbiased | 4.9975 | 4.9966 | -0.0009 |
| 331 | 30 | HDR unbiased | 4.9942 | 4.9864 | -0.0078 |
| 332 | 30 | HDR unbiased | 5.0153 | 5.0152 | -0.0001 |
| 333 | 30 | HDR unbiased | 5.0244 | 5.0149 | -0.0095 |
| 334 | 30 | HDR unbiased | 4.9961 | 4.9912 | -0.0049 |
| 335 | 30 | HDR unbiased | 4.9909 | 4.9833 | -0.0076 |
| 351 | 50 | HDR unbiased | 4.9997 | 4.9801 | -0.0196 |
| 352 | 50 | HDR unbiased | 5.0126 | 4.9959 | -0.0167 |
| 353 | 50 | HDR unbiased | 4.9937 | 4.9863 | -0.0074 |
| 354 | 50 | HDR unbiased | 5.0042 | 5.0071 | 0.0029 |
| 355 | 50 | HDR unbiased | 5.0225 | 4.9922 | -0.0303 |
| 521 | 20 | HDR biased | 4.9953 | 4.9893 | -0.006 |
| 522 | 20 | HDR biased | 5.0165 | 5.0128 | -0.0037 |
| 523 | 20 | HDR biased | 5.0015 | 4.9981 | -0.0034 |
| 524 | 20 | HDR biased | 4.9932 | 5.0088 | 0.0156 |
| 525 | 20 | HDR biased | 5.0096 | 4.9889 | -0.0207 |
| 531 | 30 | HDR biased | 5.0196 | 5.0123 | -0.0073 |
| 532 | 30 | HDR biased | 5.0186 | 4.9898 | -0.0288 |
| 533 | 30 | HDR biased | 4.9945 | 5.014 | 0.0195 |
| 534 | 30 | HDR biased | 5.027 | 5.0134 | -0.0136 |
| 535 | 30 | HDR biased | 5.0191 | 5.015 | -0.0041 |
| 551 | 50 | HDR biased | 4.9979 | 4.9886 | -0.0093 |
| 552 | 50 | HDR biased | 5.0144 | 5.0092 | -0.0052 |
| 553 | 50 | HDR biased | 5.0138 | 5.0077 | -0.0061 |
| 554 | 50 | HDR biased | 5.0132 | 5.011 | -0.0022 |
| 555 | 50 | HDR biased | 5.0216 | 5.0179 | -0.0037 |

TID vs Post - Pre Exposure Delta

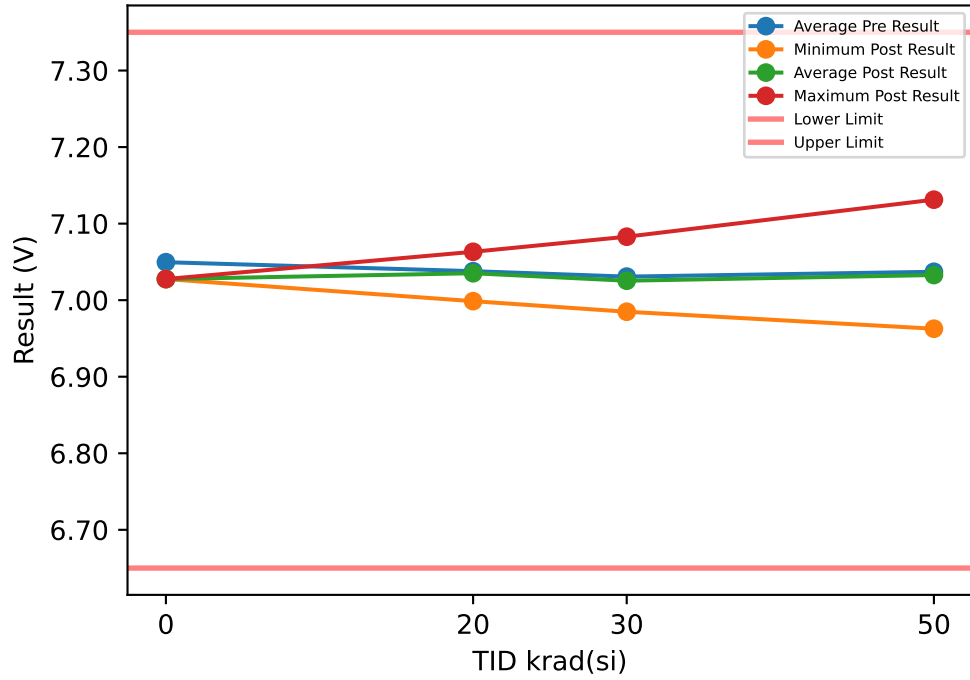


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9914 | 4.9914 | 4.9914 | | 5.0098 | 5.0098 | 5.0098 | | 0.0184 | 0.0184 | 0.0184 | |
| 20 | 4.9932 | 5.0047 | 5.0259 | 0.0111007 | 4.9889 | 5.0007 | 5.0217 | 0.010912 | -0.0207 | -0.00406 | 0.0156 | 0.0088657 |
| 30 | 4.9909 | 5.01 | 5.027 | 0.014225 | 4.9833 | 5.0035 | 5.0152 | 0.013841 | -0.0288 | -0.00642 | 0.0195 | 0.011951 |
| 50 | 4.9937 | 5.0094 | 5.0225 | 0.0099406 | 4.9801 | 4.9996 | 5.0179 | 0.012585 | -0.0303 | -0.00976 | 0.0029 | 0.009781 |

Device Test: 60.12 V_BP7L(_V_BP7L IIM 500kHz VIN_10V)

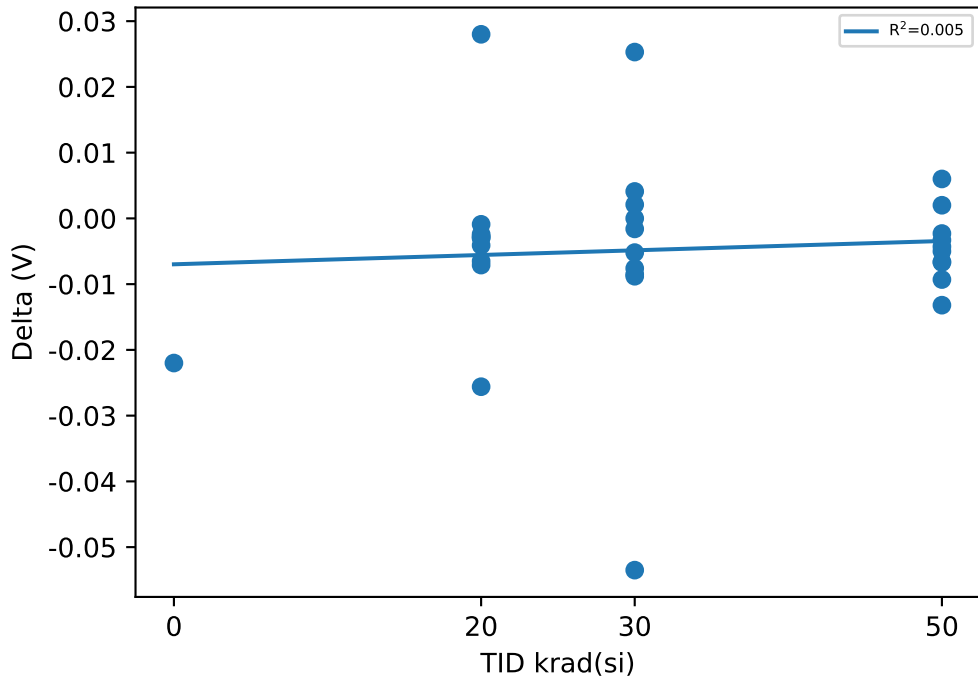
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0496 | 7.0276 | -0.022 |
| 321 | 20 | HDR unbiased | 7.0673 | 7.0632 | -0.0041 |
| 322 | 20 | HDR unbiased | 7.0597 | 7.0573 | -0.0024 |
| 323 | 20 | HDR unbiased | 7.0116 | 7.0045 | -0.0071 |
| 324 | 20 | HDR unbiased | 7.0278 | 7.0249 | -0.0029 |
| 325 | 20 | HDR unbiased | 7.063 | 7.0603 | -0.0027 |
| 331 | 30 | HDR unbiased | 7.0064 | 7.0012 | -0.0052 |
| 332 | 30 | HDR unbiased | 6.9937 | 6.9849 | -0.0088 |
| 333 | 30 | HDR unbiased | 7.0269 | 7.0193 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.02 | 7.0241 | 0.0041 |
| 335 | 30 | HDR unbiased | 6.9847 | 6.9868 | 0.0021 |
| 351 | 50 | HDR unbiased | 7.0052 | 7.0112 | 0.006 |
| 352 | 50 | HDR unbiased | 6.967 | 6.9627 | -0.0043 |
| 353 | 50 | HDR unbiased | 7.0145 | 7.0013 | -0.0132 |
| 354 | 50 | HDR unbiased | 7.0686 | 7.0653 | -0.0033 |
| 355 | 50 | HDR unbiased | 7.0663 | 7.0683 | 0.002 |
| 521 | 20 | HDR biased | 7.0083 | 7.0018 | -0.0065 |
| 522 | 20 | HDR biased | 7.0519 | 7.051 | -0.0009 |
| 523 | 20 | HDR biased | 7.0017 | 6.9987 | -0.003 |
| 524 | 20 | HDR biased | 7.0582 | 7.0326 | -0.0256 |
| 525 | 20 | HDR biased | 7.0295 | 7.0575 | 0.028 |
| 531 | 30 | HDR biased | 7.0626 | 7.0541 | -0.0085 |
| 532 | 30 | HDR biased | 7.0102 | 7.0355 | 0.0253 |
| 533 | 30 | HDR biased | 7.0561 | 7.0026 | -0.0535 |
| 534 | 30 | HDR biased | 7.0845 | 7.0829 | -0.0016 |
| 535 | 30 | HDR biased | 7.0627 | 7.0627 | 0 |
| 551 | 50 | HDR biased | 7.0231 | 7.0208 | -0.0023 |
| 552 | 50 | HDR biased | 7.0496 | 7.0446 | -0.005 |
| 553 | 50 | HDR biased | 7.0248 | 7.0181 | -0.0067 |
| 554 | 50 | HDR biased | 7.0112 | 7.0046 | -0.0066 |
| 555 | 50 | HDR biased | 7.1406 | 7.1313 | -0.0093 |

TID vs Post - Pre Exposure Delta

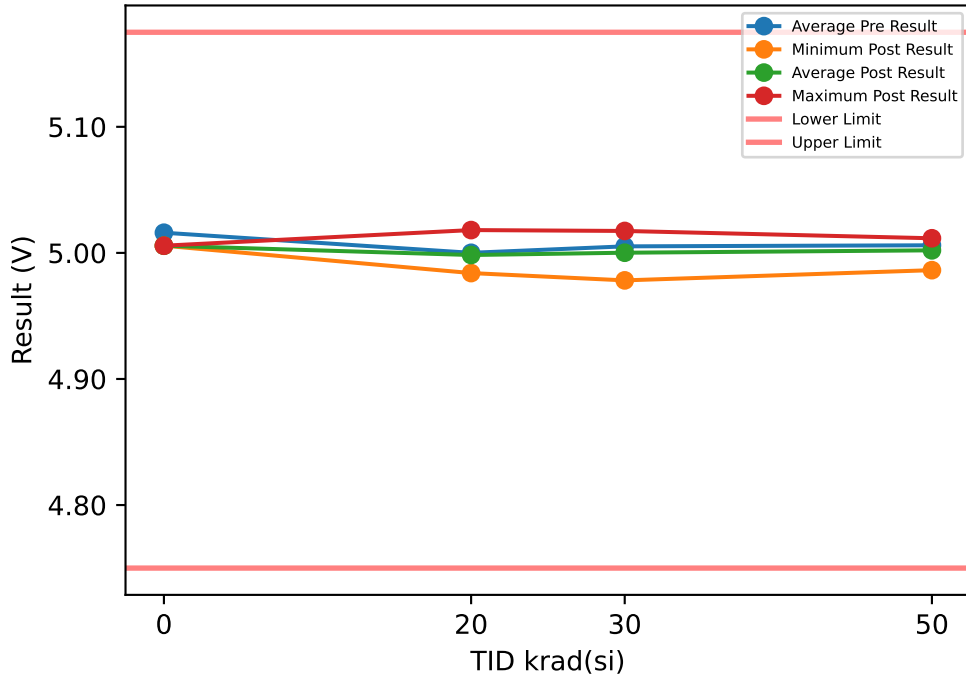


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0496 | 7.0496 | 7.0496 | | 7.0276 | 7.0276 | 7.0276 | | -0.022 | -0.022 | -0.022 | |
| 20 | 7.0017 | 7.0379 | 7.0673 | 0.025008 | 6.9987 | 7.0352 | 7.0632 | 0.026146 | -0.0256 | -0.00272 | 0.028 | 0.012936 |
| 30 | 6.9847 | 7.0308 | 7.0845 | 0.033675 | 6.9849 | 7.0254 | 7.0829 | 0.033163 | -0.0535 | -0.00537 | 0.0253 | 0.019642 |
| 50 | 6.967 | 7.0371 | 7.1406 | 0.047345 | 6.9627 | 7.0328 | 7.1313 | 0.046769 | -0.0132 | -0.00427 | 0.006 | 0.0054418 |

Device Test: 60.13 V_BP5L(_V_BP5L IIM 500kHz VIN_10V)

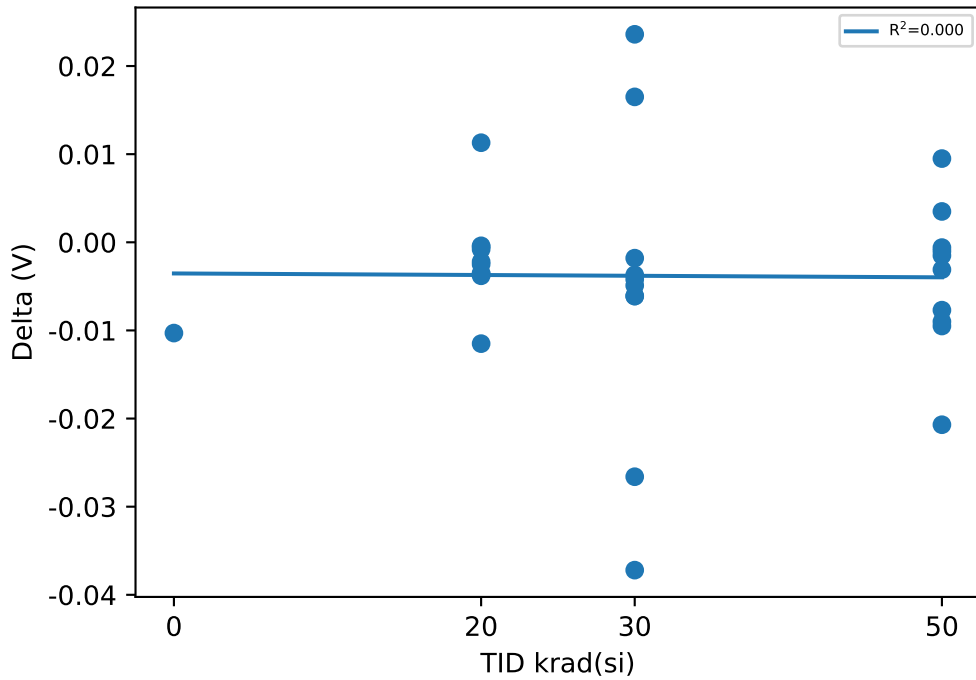
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.016 | 5.0057 | -0.0103 |
| 321 | 20 | HDR unbiased | 4.9893 | 4.9889 | -0.0004 |
| 322 | 20 | HDR unbiased | 5.0157 | 5.0135 | -0.0022 |
| 323 | 20 | HDR unbiased | 4.9965 | 4.996 | -0.0005 |
| 324 | 20 | HDR unbiased | 4.9944 | 4.9908 | -0.0036 |
| 325 | 20 | HDR unbiased | 5.002 | 4.9985 | -0.0035 |
| 331 | 30 | HDR unbiased | 4.9988 | 4.9939 | -0.0049 |
| 332 | 30 | HDR unbiased | 5 | 4.9958 | -0.0042 |
| 333 | 30 | HDR unbiased | 5.0135 | 5.0074 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9964 | 4.9903 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.0179 | 5.0161 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0105 | 4.9898 | -0.0207 |
| 352 | 50 | HDR unbiased | 4.9958 | 4.9863 | -0.0095 |
| 353 | 50 | HDR unbiased | 4.9935 | 5.003 | 0.0095 |
| 354 | 50 | HDR unbiased | 5.0106 | 5.0096 | -0.001 |
| 355 | 50 | HDR unbiased | 5.0177 | 5.0087 | -0.009 |
| 521 | 20 | HDR biased | 5.0219 | 5.0181 | -0.0038 |
| 522 | 20 | HDR biased | 4.9926 | 4.9901 | -0.0025 |
| 523 | 20 | HDR biased | 4.9848 | 4.984 | -0.0008 |
| 524 | 20 | HDR biased | 4.9961 | 5.0074 | 0.0113 |
| 525 | 20 | HDR biased | 5.0074 | 4.9959 | -0.0115 |
| 531 | 30 | HDR biased | 5.0048 | 4.9782 | -0.0266 |
| 532 | 30 | HDR biased | 5.0216 | 4.9844 | -0.0372 |
| 533 | 30 | HDR biased | 4.9926 | 5.0162 | 0.0236 |
| 534 | 30 | HDR biased | 5.0211 | 5.0174 | -0.0037 |
| 535 | 30 | HDR biased | 4.9852 | 5.0017 | 0.0165 |
| 551 | 50 | HDR biased | 5.0001 | 4.9995 | -0.0006 |
| 552 | 50 | HDR biased | 5.0029 | 5.0014 | -0.0015 |
| 553 | 50 | HDR biased | 5.0147 | 5.0116 | -0.0031 |
| 554 | 50 | HDR biased | 5.0151 | 5.0074 | -0.0077 |
| 555 | 50 | HDR biased | 4.9995 | 5.003 | 0.0035 |

TID vs Post - Pre Exposure Delta

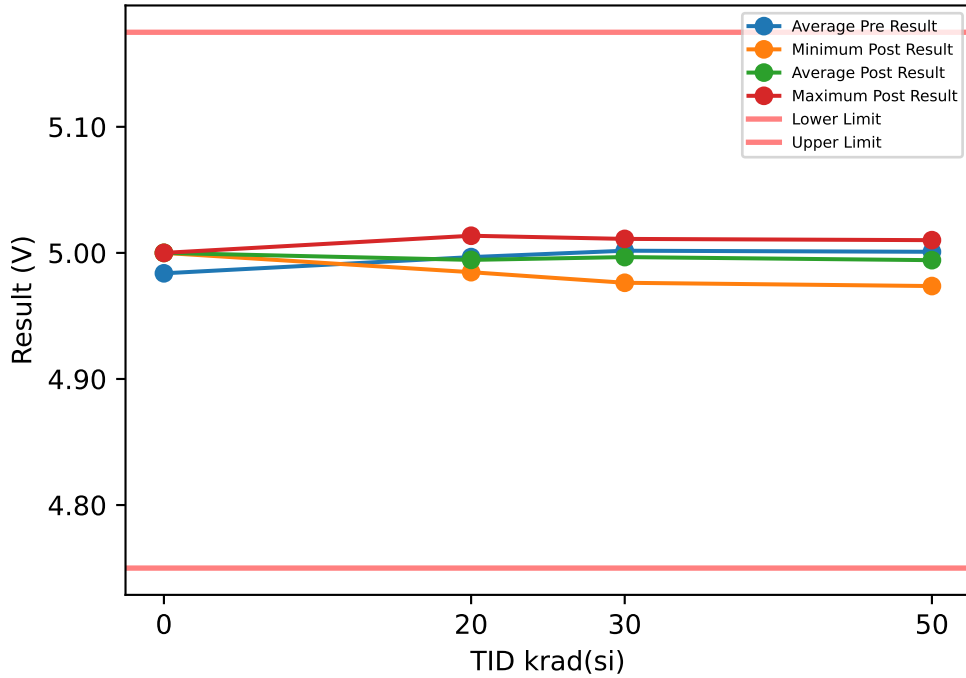


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.016 | 5.016 | 5.016 | | 5.0057 | 5.0057 | 5.0057 | | -0.0103 | -0.0103 | -0.0103 | |
| 20 | 4.9848 | 5.0001 | 5.0219 | 0.011756 | 4.984 | 4.9983 | 5.0181 | 0.011222 | -0.0115 | -0.00175 | 0.0113 | 0.0055887 |
| 30 | 4.9852 | 5.0052 | 5.0216 | 0.012721 | 4.9782 | 5.0001 | 5.0174 | 0.013942 | -0.0372 | -0.00505 | 0.0236 | 0.017634 |
| 50 | 4.9935 | 5.006 | 5.0177 | 0.0087162 | 4.9863 | 5.002 | 5.0116 | 0.0083527 | -0.0207 | -0.00401 | 0.0095 | 0.0082593 |

Device Test: 60.14 V_BP5H(_BP5H IIM 500kHz VIN_10V)

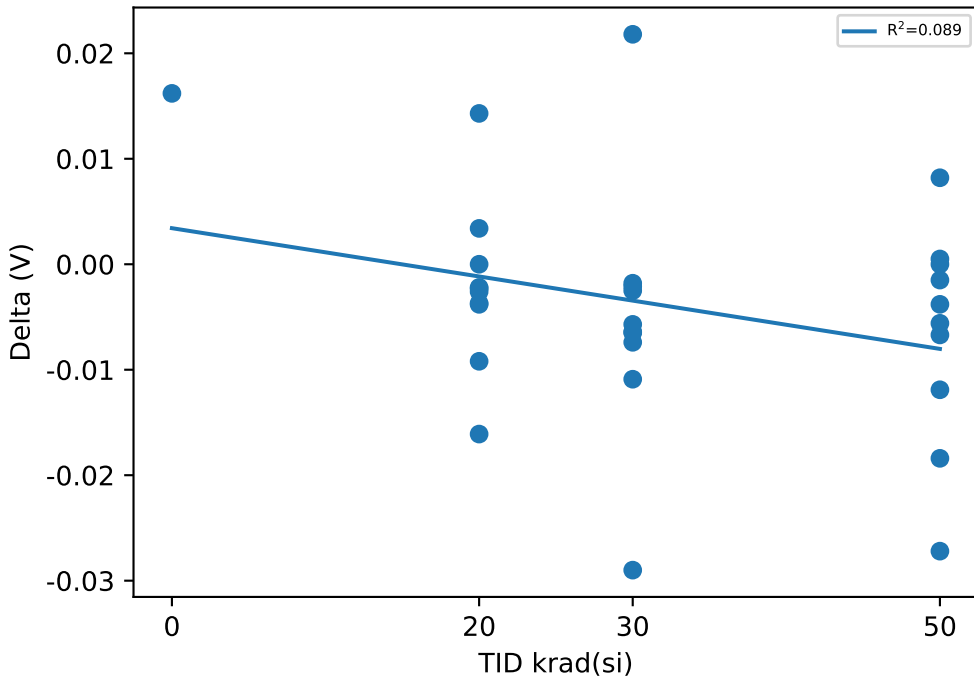
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9838 | 5 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9868 | 4.9868 | 0 |
| 322 | 20 | HDR unbiased | 5.0174 | 5.0136 | -0.0038 |
| 323 | 20 | HDR unbiased | 5.005 | 4.9958 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.9895 | 4.9872 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9898 | 4.9932 | 0.0034 |
| 331 | 30 | HDR unbiased | 4.9863 | 4.9806 | -0.0057 |
| 332 | 30 | HDR unbiased | 5.0073 | 5.0048 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0175 | 5.0111 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9862 | 4.9844 | -0.0018 |
| 335 | 30 | HDR unbiased | 4.9837 | 4.9763 | -0.0074 |
| 351 | 50 | HDR unbiased | 4.9921 | 4.9737 | -0.0184 |
| 352 | 50 | HDR unbiased | 5.0021 | 4.9902 | -0.0119 |
| 353 | 50 | HDR unbiased | 4.9842 | 4.9842 | 0 |
| 354 | 50 | HDR unbiased | 4.997 | 5.0052 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0139 | 4.9867 | -0.0272 |
| 521 | 20 | HDR biased | 4.9884 | 4.9847 | -0.0037 |
| 522 | 20 | HDR biased | 5.006 | 5.0038 | -0.0022 |
| 523 | 20 | HDR biased | 4.9928 | 4.9902 | -0.0026 |
| 524 | 20 | HDR biased | 4.9891 | 5.0034 | 0.0143 |
| 525 | 20 | HDR biased | 5.0018 | 4.9857 | -0.0161 |
| 531 | 30 | HDR biased | 5.0125 | 5.006 | -0.0065 |
| 532 | 30 | HDR biased | 5.0107 | 4.9817 | -0.029 |
| 533 | 30 | HDR biased | 4.9853 | 5.0071 | 0.0218 |
| 534 | 30 | HDR biased | 5.0176 | 5.0067 | -0.0109 |
| 535 | 30 | HDR biased | 5.0102 | 5.0081 | -0.0021 |
| 551 | 50 | HDR biased | 4.989 | 4.9834 | -0.0056 |
| 552 | 50 | HDR biased | 5.0061 | 4.9994 | -0.0067 |
| 553 | 50 | HDR biased | 5.0046 | 5.0031 | -0.0015 |
| 554 | 50 | HDR biased | 5.0058 | 5.0063 | 0.0005 |
| 555 | 50 | HDR biased | 5.0139 | 5.0101 | -0.0038 |

TID vs Post - Pre Exposure Delta

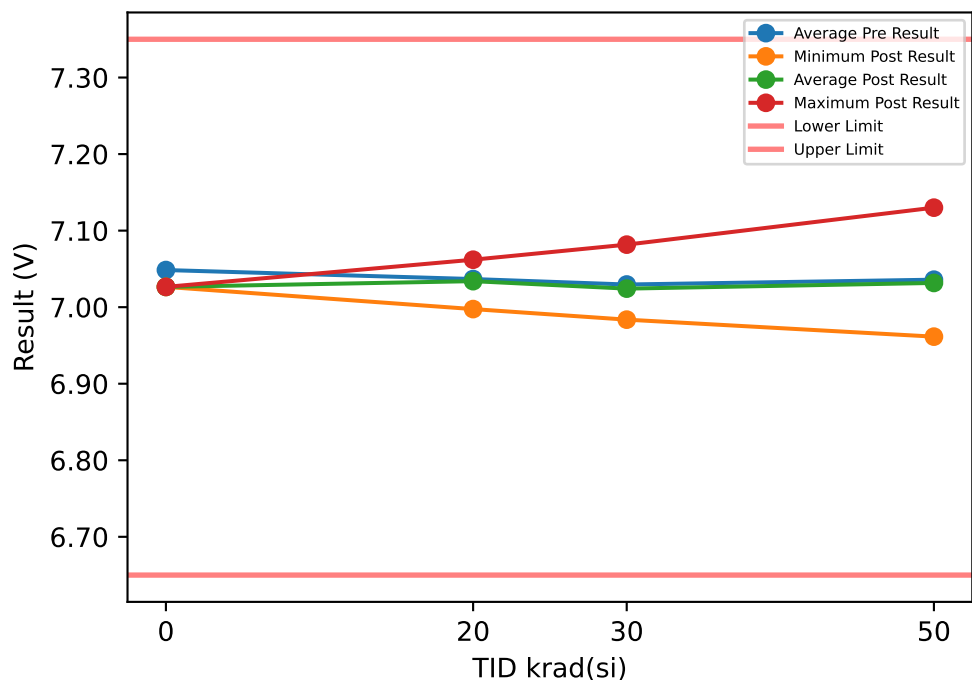


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9838 | 4.9838 | 4.9838 | | 5 | 5 | 5 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9868 | 4.9967 | 5.0174 | 0.01027 | 4.9847 | 4.9944 | 5.0136 | 0.0096517 | -0.0161 | -0.00222 | 0.0143 | 0.0078573 |
| 30 | 4.9837 | 5.0017 | 5.0176 | 0.01443 | 4.9763 | 4.9967 | 5.0111 | 0.013941 | -0.029 | -0.00505 | 0.0218 | 0.012313 |
| 50 | 4.9842 | 5.0009 | 5.0139 | 0.010096 | 4.9737 | 4.9942 | 5.0101 | 0.012182 | -0.0272 | -0.00664 | 0.0082 | 0.010217 |

Device Test: 60.15 V_BP7L(_V_BP7L IIM 1MHz VIN_10V)

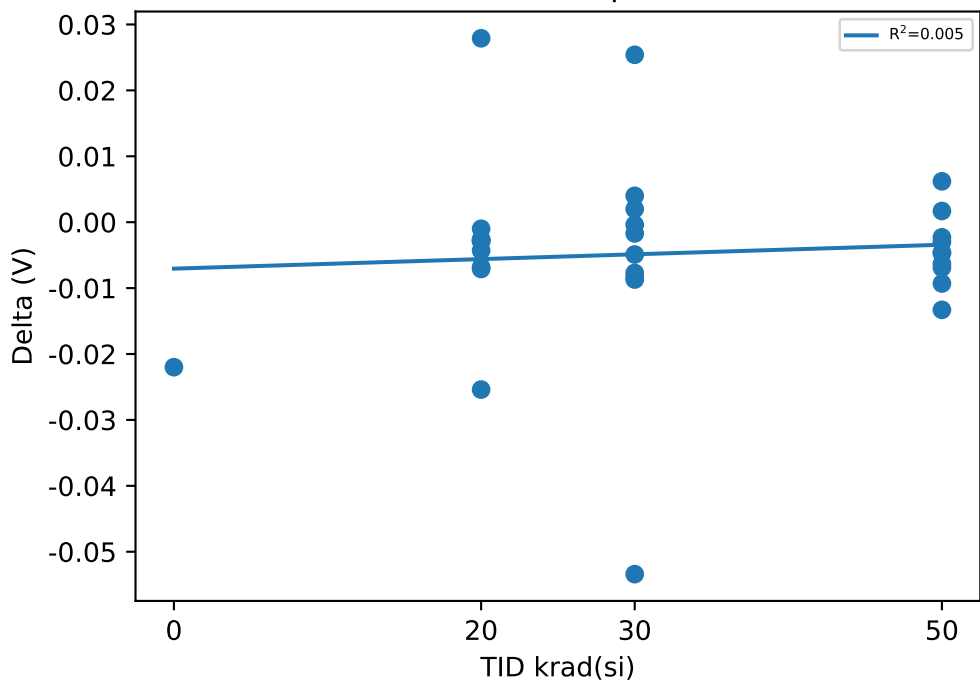
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0485 | 7.0265 | -0.022 |
| 321 | 20 | HDR unbiased | 7.0663 | 7.062 | -0.0043 |
| 322 | 20 | HDR unbiased | 7.0586 | 7.056 | -0.0026 |
| 323 | 20 | HDR unbiased | 7.0103 | 7.0032 | -0.0071 |
| 324 | 20 | HDR unbiased | 7.0267 | 7.0239 | -0.0028 |
| 325 | 20 | HDR unbiased | 7.0619 | 7.0592 | -0.0027 |
| 331 | 30 | HDR unbiased | 7.0051 | 7.0002 | -0.0049 |
| 332 | 30 | HDR unbiased | 6.9924 | 6.9837 | -0.0087 |
| 333 | 30 | HDR unbiased | 7.0258 | 7.0181 | -0.0077 |
| 334 | 30 | HDR unbiased | 7.0189 | 7.0229 | 0.004 |
| 335 | 30 | HDR unbiased | 6.9837 | 6.9857 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0038 | 7.01 | 0.0062 |
| 352 | 50 | HDR unbiased | 6.9661 | 6.9615 | -0.0046 |
| 353 | 50 | HDR unbiased | 7.0134 | 7.0001 | -0.0133 |
| 354 | 50 | HDR unbiased | 7.0672 | 7.0642 | -0.003 |
| 355 | 50 | HDR unbiased | 7.0653 | 7.067 | 0.0017 |
| 521 | 20 | HDR biased | 7.0073 | 7.0005 | -0.0068 |
| 522 | 20 | HDR biased | 7.0507 | 7.0497 | -0.001 |
| 523 | 20 | HDR biased | 7.0004 | 6.9975 | -0.0029 |
| 524 | 20 | HDR biased | 7.057 | 7.0316 | -0.0254 |
| 525 | 20 | HDR biased | 7.0283 | 7.0562 | 0.0279 |
| 531 | 30 | HDR biased | 7.0614 | 7.053 | -0.0084 |
| 532 | 30 | HDR biased | 7.0089 | 7.0343 | 0.0254 |
| 533 | 30 | HDR biased | 7.0548 | 7.0014 | -0.0534 |
| 534 | 30 | HDR biased | 7.0834 | 7.0817 | -0.0017 |
| 535 | 30 | HDR biased | 7.0617 | 7.0613 | -0.0004 |
| 551 | 50 | HDR biased | 7.022 | 7.0197 | -0.0023 |
| 552 | 50 | HDR biased | 7.0483 | 7.0436 | -0.0047 |
| 553 | 50 | HDR biased | 7.0237 | 7.0168 | -0.0069 |
| 554 | 50 | HDR biased | 7.0099 | 7.0036 | -0.0063 |
| 555 | 50 | HDR biased | 7.1393 | 7.13 | -0.0093 |

TID vs Post - Pre Exposure Delta

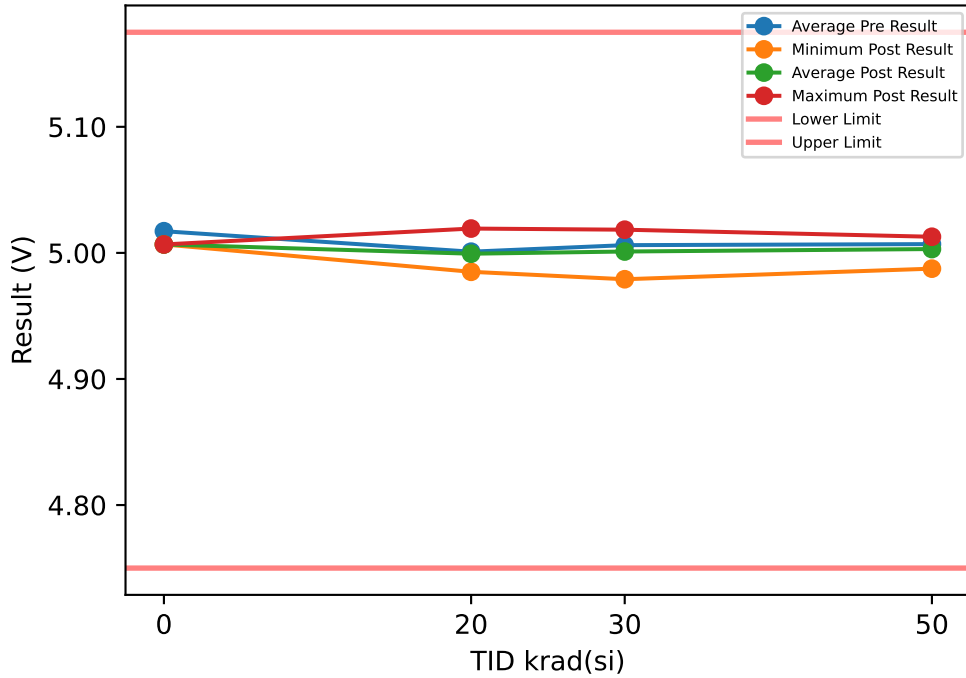


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0485 | 7.0485 | 7.0485 | | 7.0265 | 7.0265 | 7.0265 | | -0.022 | -0.022 | -0.022 | |
| 20 | 7.0004 | 7.0368 | 7.0663 | 0.025052 | 6.9975 | 7.034 | 7.062 | 0.026148 | -0.0254 | -0.00277 | 0.0279 | 0.012881 |
| 30 | 6.9837 | 7.0296 | 7.0834 | 0.033697 | 6.9837 | 7.0242 | 7.0817 | 0.033118 | -0.0534 | -0.00538 | 0.0254 | 0.019607 |
| 50 | 6.9661 | 7.0359 | 7.1393 | 0.047277 | 6.9615 | 7.0317 | 7.13 | 0.046738 | -0.0133 | -0.00425 | 0.0062 | 0.0054663 |

Device Test: 60.16 V_BP5L(_V_BP5L IIM 1MHz VIN_10V)

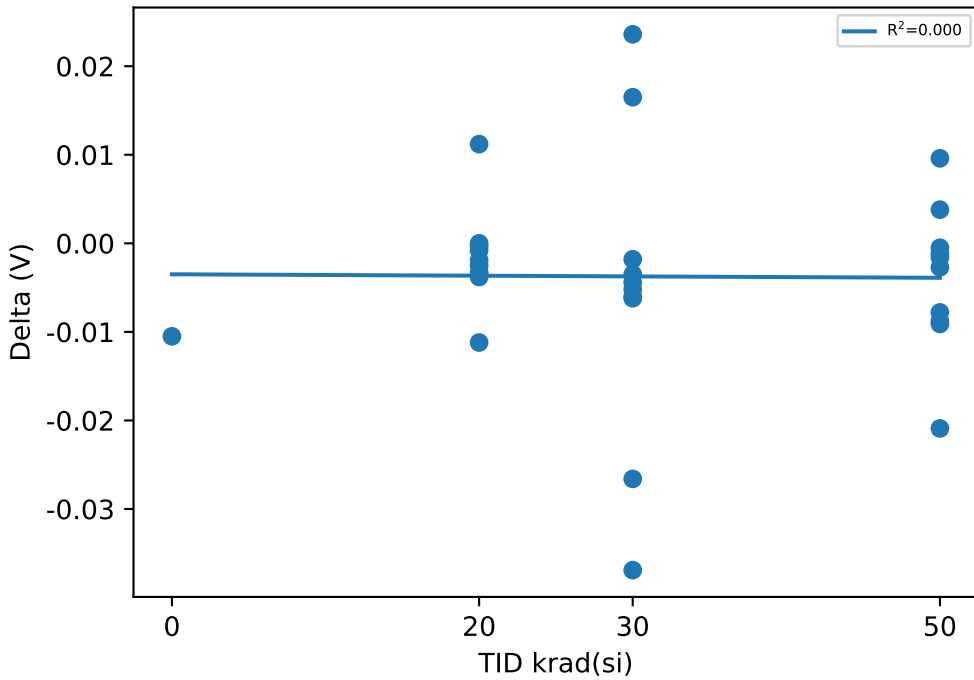
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0172 | 5.0067 | -0.0105 |
| 321 | 20 | HDR unbiased | 4.99 | 4.99 | 0 |
| 322 | 20 | HDR unbiased | 5.0165 | 5.0146 | -0.0019 |
| 323 | 20 | HDR unbiased | 4.9974 | 4.9971 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9952 | 4.9919 | -0.0033 |
| 325 | 20 | HDR unbiased | 5.0032 | 4.9994 | -0.0038 |
| 331 | 30 | HDR unbiased | 4.9998 | 4.9946 | -0.0052 |
| 332 | 30 | HDR unbiased | 5.0011 | 4.9967 | -0.0044 |
| 333 | 30 | HDR unbiased | 5.0147 | 5.0087 | -0.006 |
| 334 | 30 | HDR unbiased | 4.9972 | 4.991 | -0.0062 |
| 335 | 30 | HDR unbiased | 5.0189 | 5.0171 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0115 | 4.9906 | -0.0209 |
| 352 | 50 | HDR unbiased | 4.9966 | 4.9875 | -0.0091 |
| 353 | 50 | HDR unbiased | 4.9942 | 5.0038 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0118 | 5.0106 | -0.0012 |
| 355 | 50 | HDR unbiased | 5.0187 | 5.0099 | -0.0088 |
| 521 | 20 | HDR biased | 5.0228 | 5.0193 | -0.0035 |
| 522 | 20 | HDR biased | 4.9935 | 4.991 | -0.0025 |
| 523 | 20 | HDR biased | 4.9858 | 4.985 | -0.0008 |
| 524 | 20 | HDR biased | 4.9971 | 5.0083 | 0.0112 |
| 525 | 20 | HDR biased | 5.0081 | 4.9969 | -0.0112 |
| 531 | 30 | HDR biased | 5.0057 | 4.9791 | -0.0266 |
| 532 | 30 | HDR biased | 5.0226 | 4.9857 | -0.0369 |
| 533 | 30 | HDR biased | 4.9934 | 5.017 | 0.0236 |
| 534 | 30 | HDR biased | 5.0219 | 5.0184 | -0.0035 |
| 535 | 30 | HDR biased | 4.9861 | 5.0026 | 0.0165 |
| 551 | 50 | HDR biased | 5.0009 | 5.0004 | -0.0005 |
| 552 | 50 | HDR biased | 5.0038 | 5.0022 | -0.0016 |
| 553 | 50 | HDR biased | 5.0155 | 5.0128 | -0.0027 |
| 554 | 50 | HDR biased | 5.0161 | 5.0083 | -0.0078 |
| 555 | 50 | HDR biased | 5.0006 | 5.0044 | 0.0038 |

TID vs Post - Pre Exposure Delta

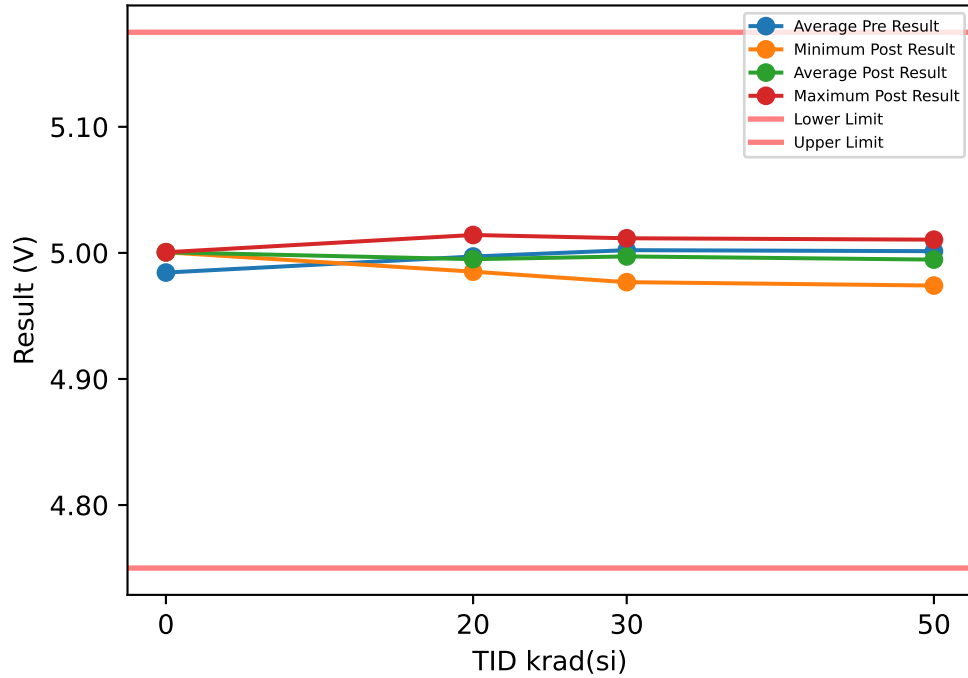


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0172 | 5.0172 | 5.0172 | | 5.0067 | 5.0067 | 5.0067 | | -0.0105 | -0.0105 | -0.0105 | |
| 20 | 4.9858 | 5.001 | 5.0228 | 0.011742 | 4.985 | 4.9993 | 5.0193 | 0.011256 | -0.0112 | -0.00161 | 0.0112 | 0.0055089 |
| 30 | 4.9861 | 5.0061 | 5.0226 | 0.012759 | 4.9791 | 5.0011 | 5.0184 | 0.013956 | -0.0369 | -0.00505 | 0.0236 | 0.017574 |
| 50 | 4.9942 | 5.007 | 5.0187 | 0.0087917 | 4.9875 | 5.003 | 5.0128 | 0.0083897 | -0.0209 | -0.00392 | 0.0096 | 0.0083158 |

Device Test: 60.17 V_BP5H(_V_BP5H IIM 1MHz VIN_10V)

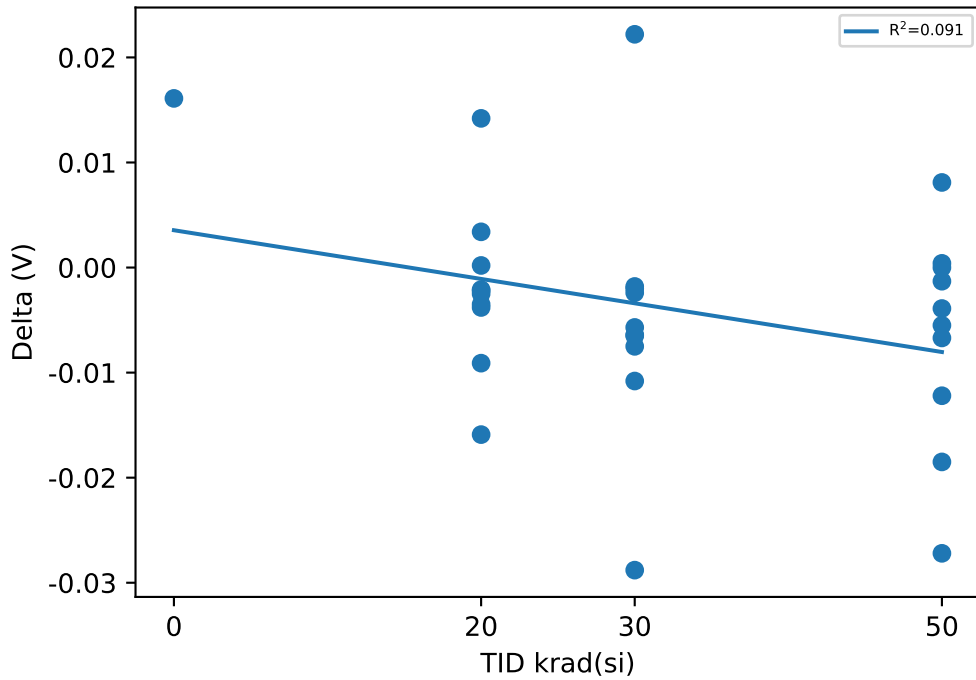
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9844 | 5.0005 | 0.0161 |
| 321 | 20 | HDR unbiased | 4.9873 | 4.9875 | 0.0002 |
| 322 | 20 | HDR unbiased | 5.0177 | 5.0142 | -0.0035 |
| 323 | 20 | HDR unbiased | 5.0055 | 4.9964 | -0.0091 |
| 324 | 20 | HDR unbiased | 4.99 | 4.9878 | -0.0022 |
| 325 | 20 | HDR unbiased | 4.9903 | 4.9937 | 0.0034 |
| 331 | 30 | HDR unbiased | 4.9868 | 4.9811 | -0.0057 |
| 332 | 30 | HDR unbiased | 5.0078 | 5.0054 | -0.0024 |
| 333 | 30 | HDR unbiased | 5.018 | 5.0116 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9867 | 4.9849 | -0.0018 |
| 335 | 30 | HDR unbiased | 4.9843 | 4.9768 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9926 | 4.9741 | -0.0185 |
| 352 | 50 | HDR unbiased | 5.0027 | 4.9905 | -0.0122 |
| 353 | 50 | HDR unbiased | 4.9847 | 4.9847 | 0 |
| 354 | 50 | HDR unbiased | 4.9974 | 5.0055 | 0.0081 |
| 355 | 50 | HDR unbiased | 5.0143 | 4.9871 | -0.0272 |
| 521 | 20 | HDR biased | 4.9889 | 4.9851 | -0.0038 |
| 522 | 20 | HDR biased | 5.0064 | 5.0043 | -0.0021 |
| 523 | 20 | HDR biased | 4.9933 | 4.9908 | -0.0025 |
| 524 | 20 | HDR biased | 4.9897 | 5.0039 | 0.0142 |
| 525 | 20 | HDR biased | 5.0022 | 4.9863 | -0.0159 |
| 531 | 30 | HDR biased | 5.013 | 5.0065 | -0.0065 |
| 532 | 30 | HDR biased | 5.0111 | 4.9823 | -0.0288 |
| 533 | 30 | HDR biased | 4.9855 | 5.0077 | 0.0222 |
| 534 | 30 | HDR biased | 5.0179 | 5.0071 | -0.0108 |
| 535 | 30 | HDR biased | 5.0106 | 5.0086 | -0.002 |
| 551 | 50 | HDR biased | 4.9894 | 4.9839 | -0.0055 |
| 552 | 50 | HDR biased | 5.0066 | 4.9999 | -0.0067 |
| 553 | 50 | HDR biased | 5.005 | 5.0037 | -0.0013 |
| 554 | 50 | HDR biased | 5.0065 | 5.0069 | 0.0004 |
| 555 | 50 | HDR biased | 5.0144 | 5.0105 | -0.0039 |

TID vs Post - Pre Exposure Delta

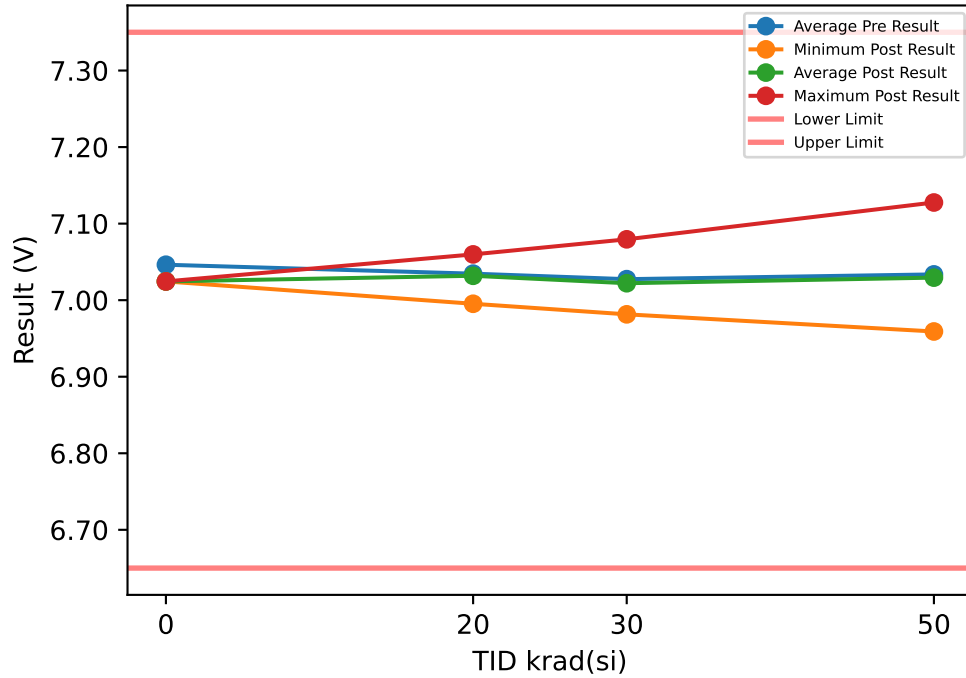


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9844 | 4.9844 | 4.9844 | | 5.0005 | 5.0005 | 5.0005 | | 0.0161 | 0.0161 | 0.0161 | |
| 20 | 4.9873 | 4.9971 | 5.0177 | 0.010201 | 4.9851 | 4.995 | 5.0142 | 0.0096461 | -0.0159 | -0.00213 | 0.0142 | 0.0077866 |
| 30 | 4.9843 | 5.0022 | 5.018 | 0.014417 | 4.9768 | 4.9972 | 5.0116 | 0.013936 | -0.0288 | -0.00497 | 0.0222 | 0.012369 |
| 50 | 4.9847 | 5.0014 | 5.0144 | 0.010107 | 4.9741 | 4.9947 | 5.0105 | 0.0122 | -0.0272 | -0.00668 | 0.0081 | 0.010233 |

Device Test: 60.18 V_BP7L(_V_BP7L IIM 2MHz VIN_10V)

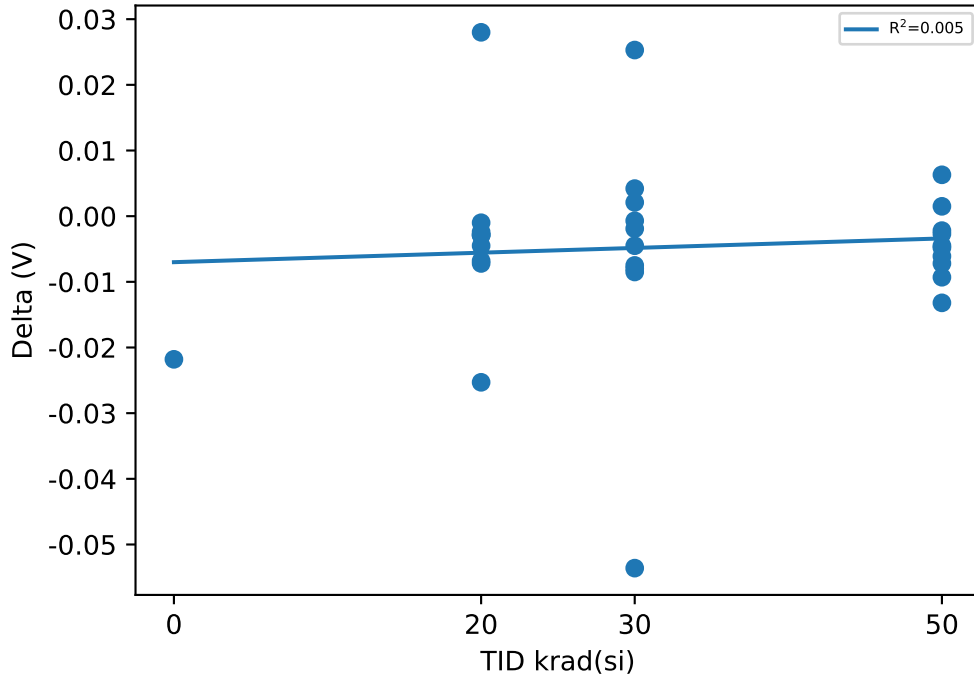
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0463 | 7.0245 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0643 | 7.0598 | -0.0045 |
| 322 | 20 | HDR unbiased | 7.0566 | 7.0538 | -0.0028 |
| 323 | 20 | HDR unbiased | 7.008 | 7.0008 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.0246 | 7.0217 | -0.0029 |
| 325 | 20 | HDR unbiased | 7.0596 | 7.0572 | -0.0024 |
| 331 | 30 | HDR unbiased | 7.0028 | 6.9983 | -0.0045 |
| 332 | 30 | HDR unbiased | 6.99 | 6.9815 | -0.0085 |
| 333 | 30 | HDR unbiased | 7.0235 | 7.016 | -0.0075 |
| 334 | 30 | HDR unbiased | 7.0169 | 7.0211 | 0.0042 |
| 335 | 30 | HDR unbiased | 6.9816 | 6.9837 | 0.0021 |
| 351 | 50 | HDR unbiased | 7.0016 | 7.0079 | 0.0063 |
| 352 | 50 | HDR unbiased | 6.9639 | 6.9591 | -0.0048 |
| 353 | 50 | HDR unbiased | 7.0112 | 6.998 | -0.0132 |
| 354 | 50 | HDR unbiased | 7.0649 | 7.0622 | -0.0027 |
| 355 | 50 | HDR unbiased | 7.0631 | 7.0646 | 0.0015 |
| 521 | 20 | HDR biased | 7.0052 | 6.9984 | -0.0068 |
| 522 | 20 | HDR biased | 7.0487 | 7.0477 | -0.001 |
| 523 | 20 | HDR biased | 6.9982 | 6.9953 | -0.0029 |
| 524 | 20 | HDR biased | 7.0548 | 7.0295 | -0.0253 |
| 525 | 20 | HDR biased | 7.0264 | 7.0544 | 0.028 |
| 531 | 30 | HDR biased | 7.059 | 7.051 | -0.008 |
| 532 | 30 | HDR biased | 7.0067 | 7.032 | 0.0253 |
| 533 | 30 | HDR biased | 7.0529 | 6.9993 | -0.0536 |
| 534 | 30 | HDR biased | 7.0814 | 7.0795 | -0.0019 |
| 535 | 30 | HDR biased | 7.0597 | 7.059 | -0.0007 |
| 551 | 50 | HDR biased | 7.0199 | 7.0177 | -0.0022 |
| 552 | 50 | HDR biased | 7.046 | 7.0415 | -0.0045 |
| 553 | 50 | HDR biased | 7.0216 | 7.0144 | -0.0072 |
| 554 | 50 | HDR biased | 7.0076 | 7.0015 | -0.0061 |
| 555 | 50 | HDR biased | 7.1369 | 7.1276 | -0.0093 |

TID vs Post - Pre Exposure Delta

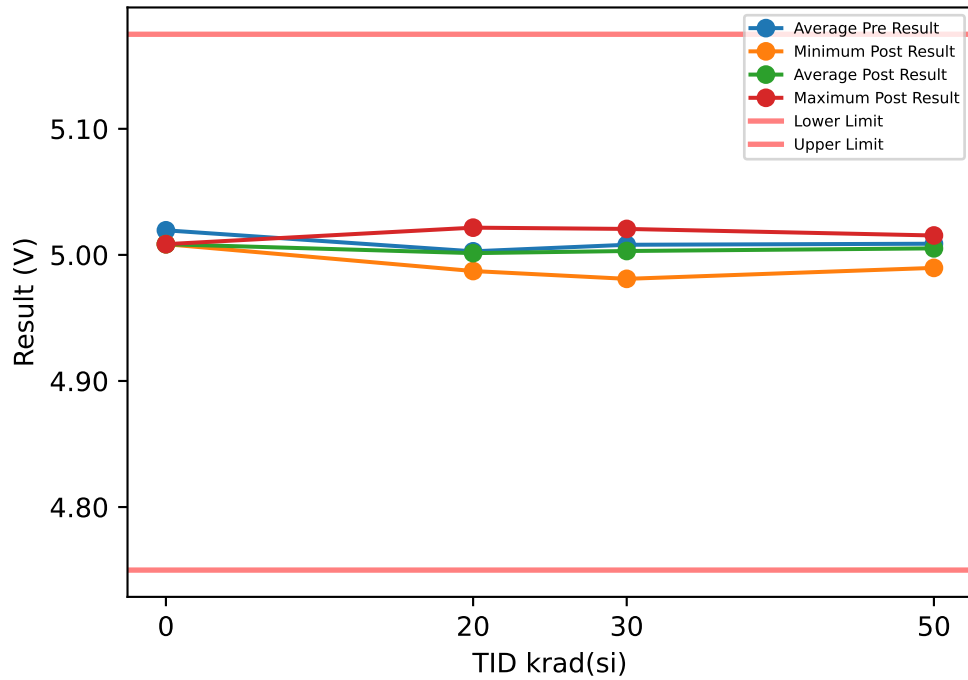


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0463 | 7.0463 | 7.0463 | | 7.0245 | 7.0245 | 7.0245 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 6.9982 | 7.0346 | 7.0643 | 0.025082 | 6.9953 | 7.0319 | 7.0598 | 0.026231 | -0.0253 | -0.00278 | 0.028 | 0.012895 |
| 30 | 6.9816 | 7.0274 | 7.0814 | 0.03377 | 6.9815 | 7.0221 | 7.0795 | 0.033061 | -0.0536 | -0.00531 | 0.0253 | 0.019636 |
| 50 | 6.9639 | 7.0337 | 7.1369 | 0.047218 | 6.9591 | 7.0294 | 7.1276 | 0.046708 | -0.0132 | -0.00422 | 0.0063 | 0.0054676 |

Device Test: 60.19 V_BP5L(_V_BP5L IIM 2MHz VIN_10V)

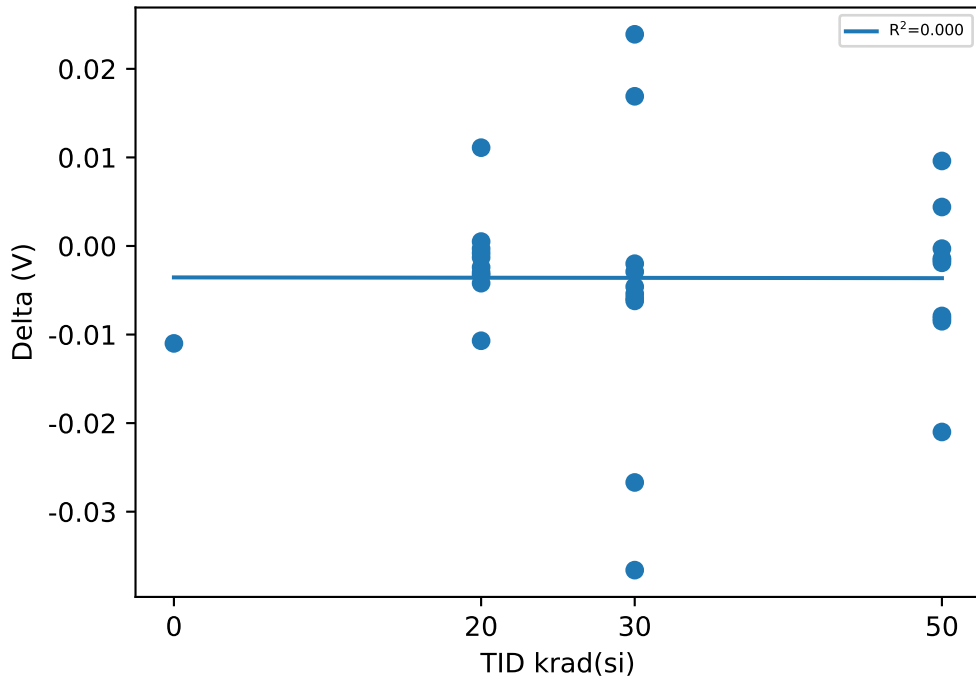
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0195 | 5.0085 | -0.011 |
| 321 | 20 | HDR unbiased | 4.9916 | 4.9921 | 0.0005 |
| 322 | 20 | HDR unbiased | 5.0182 | 5.0169 | -0.0013 |
| 323 | 20 | HDR unbiased | 4.9995 | 4.9992 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9969 | 4.9936 | -0.0033 |
| 325 | 20 | HDR unbiased | 5.0054 | 5.0012 | -0.0042 |
| 331 | 30 | HDR unbiased | 5.0017 | 4.9963 | -0.0054 |
| 332 | 30 | HDR unbiased | 5.0032 | 4.9986 | -0.0046 |
| 333 | 30 | HDR unbiased | 5.017 | 5.0111 | -0.0059 |
| 334 | 30 | HDR unbiased | 4.9987 | 4.9925 | -0.0062 |
| 335 | 30 | HDR unbiased | 5.021 | 5.019 | -0.002 |
| 351 | 50 | HDR unbiased | 5.0134 | 4.9924 | -0.021 |
| 352 | 50 | HDR unbiased | 4.9982 | 4.9897 | -0.0085 |
| 353 | 50 | HDR unbiased | 4.9959 | 5.0055 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0141 | 5.0127 | -0.0014 |
| 355 | 50 | HDR unbiased | 5.0206 | 5.0124 | -0.0082 |
| 521 | 20 | HDR biased | 5.0246 | 5.0216 | -0.003 |
| 522 | 20 | HDR biased | 4.9952 | 4.9928 | -0.0024 |
| 523 | 20 | HDR biased | 4.988 | 4.9872 | -0.0008 |
| 524 | 20 | HDR biased | 4.999 | 5.0101 | 0.0111 |
| 525 | 20 | HDR biased | 5.0099 | 4.9992 | -0.0107 |
| 531 | 30 | HDR biased | 5.0077 | 4.981 | -0.0267 |
| 532 | 30 | HDR biased | 5.0248 | 4.9882 | -0.0366 |
| 533 | 30 | HDR biased | 4.9949 | 5.0188 | 0.0239 |
| 534 | 30 | HDR biased | 5.0235 | 5.0206 | -0.0029 |
| 535 | 30 | HDR biased | 4.9878 | 5.0047 | 0.0169 |
| 551 | 50 | HDR biased | 5.0027 | 5.0024 | -0.0003 |
| 552 | 50 | HDR biased | 5.0057 | 5.0041 | -0.0016 |
| 553 | 50 | HDR biased | 5.0173 | 5.0154 | -0.0019 |
| 554 | 50 | HDR biased | 5.0182 | 5.0103 | -0.0079 |
| 555 | 50 | HDR biased | 5.0025 | 5.0069 | 0.0044 |

TID vs Post - Pre Exposure Delta

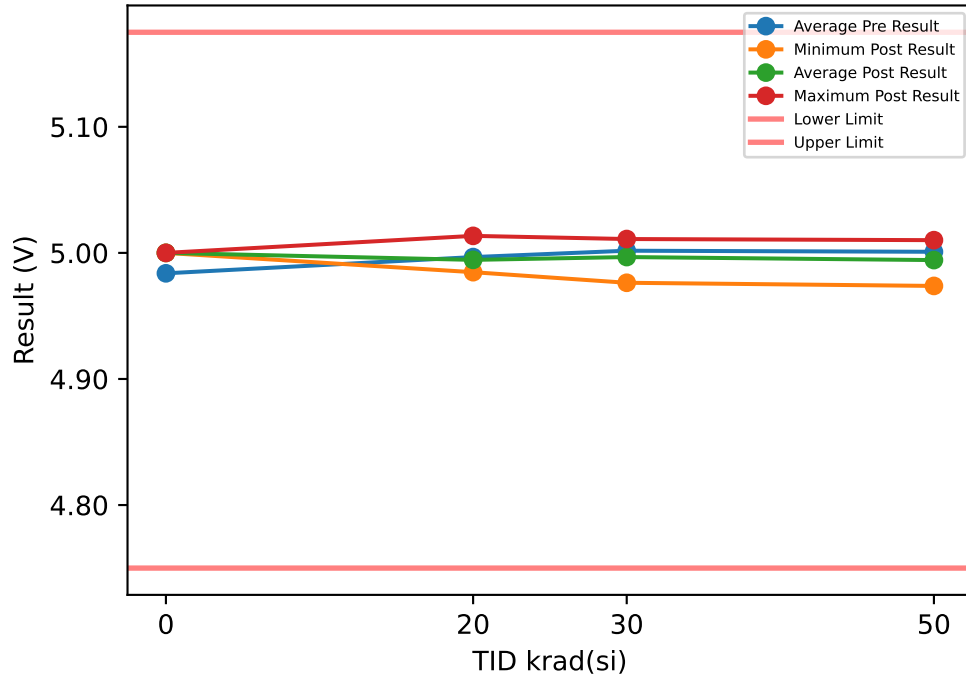


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0195 | 5.0195 | 5.0195 | | 5.0085 | 5.0085 | 5.0085 | | -0.011 | -0.011 | -0.011 | |
| 20 | 4.988 | 5.0028 | 5.0246 | 0.0117 | 4.9872 | 5.0014 | 5.0216 | 0.011336 | -0.0107 | -0.00144 | 0.0111 | 0.005405 |
| 30 | 4.9878 | 5.008 | 5.0248 | 0.012916 | 4.981 | 5.0031 | 5.0206 | 0.01399 | -0.0366 | -0.00495 | 0.0239 | 0.017639 |
| 50 | 4.9959 | 5.0089 | 5.0206 | 0.0089091 | 4.9897 | 5.0052 | 5.0154 | 0.0085261 | -0.021 | -0.00368 | 0.0096 | 0.0083481 |

Device Test: 60.2 V_BP5H(_V_BP5H PWM 500kHz VIN_10V)

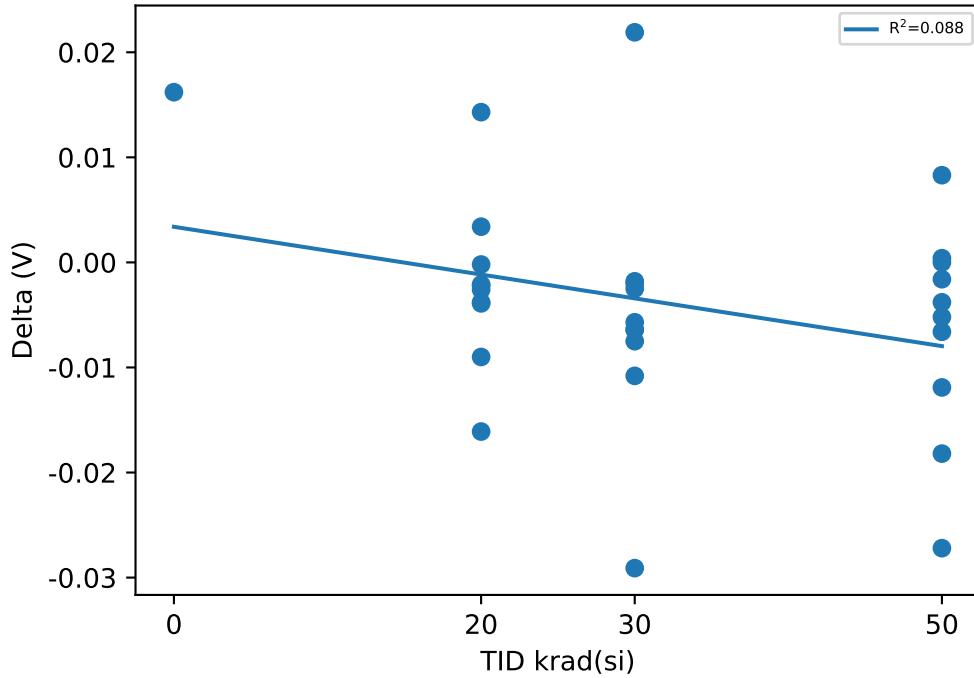
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9838 | 5 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.987 | 4.9868 | -0.0002 |
| 322 | 20 | HDR unbiased | 5.0174 | 5.0135 | -0.0039 |
| 323 | 20 | HDR unbiased | 5.0049 | 4.9959 | -0.009 |
| 324 | 20 | HDR unbiased | 4.9895 | 4.9873 | -0.0022 |
| 325 | 20 | HDR unbiased | 4.9898 | 4.9932 | 0.0034 |
| 331 | 30 | HDR unbiased | 4.9863 | 4.9806 | -0.0057 |
| 332 | 30 | HDR unbiased | 5.0073 | 5.0048 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0174 | 5.011 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9862 | 4.9844 | -0.0018 |
| 335 | 30 | HDR unbiased | 4.9838 | 4.9763 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.992 | 4.9738 | -0.0182 |
| 352 | 50 | HDR unbiased | 5.0022 | 4.9903 | -0.0119 |
| 353 | 50 | HDR unbiased | 4.9842 | 4.9842 | 0 |
| 354 | 50 | HDR unbiased | 4.9969 | 5.0052 | 0.0083 |
| 355 | 50 | HDR unbiased | 5.014 | 4.9868 | -0.0272 |
| 521 | 20 | HDR biased | 4.9885 | 4.9847 | -0.0038 |
| 522 | 20 | HDR biased | 5.0059 | 5.0038 | -0.0021 |
| 523 | 20 | HDR biased | 4.9928 | 4.9902 | -0.0026 |
| 524 | 20 | HDR biased | 4.9892 | 5.0035 | 0.0143 |
| 525 | 20 | HDR biased | 5.0018 | 4.9857 | -0.0161 |
| 531 | 30 | HDR biased | 5.0125 | 5.0061 | -0.0064 |
| 532 | 30 | HDR biased | 5.0107 | 4.9816 | -0.0291 |
| 533 | 30 | HDR biased | 4.9852 | 5.0071 | 0.0219 |
| 534 | 30 | HDR biased | 5.0176 | 5.0068 | -0.0108 |
| 535 | 30 | HDR biased | 5.0103 | 5.0083 | -0.002 |
| 551 | 50 | HDR biased | 4.9889 | 4.9837 | -0.0052 |
| 552 | 50 | HDR biased | 5.0061 | 4.9995 | -0.0066 |
| 553 | 50 | HDR biased | 5.0047 | 5.0031 | -0.0016 |
| 554 | 50 | HDR biased | 5.0059 | 5.0063 | 0.0004 |
| 555 | 50 | HDR biased | 5.0139 | 5.0101 | -0.0038 |

TID vs Post - Pre Exposure Delta

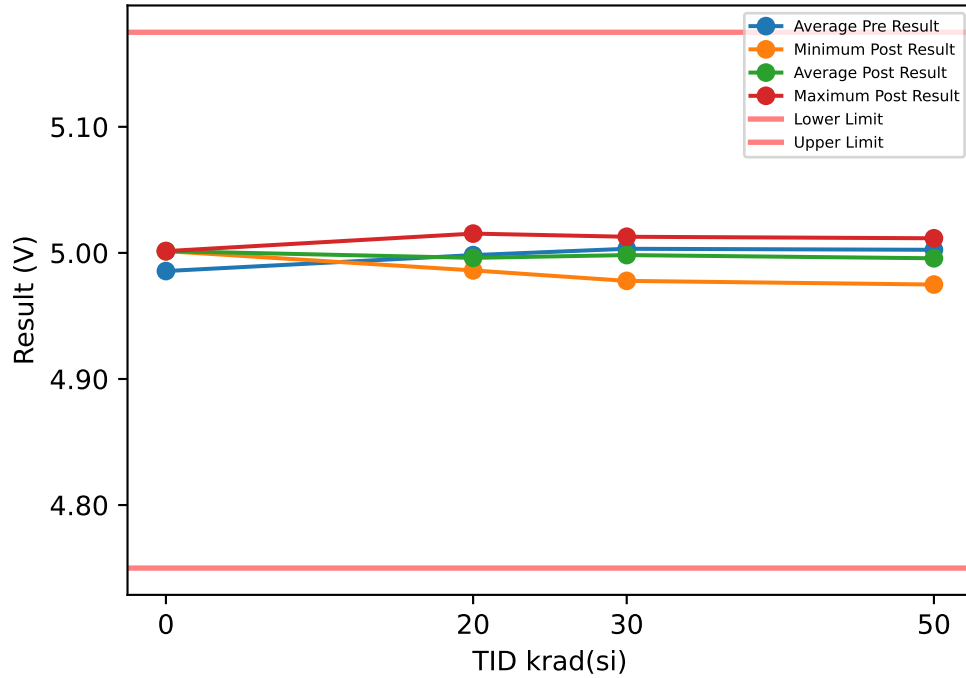


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9838 | 4.9838 | 4.9838 | | 5 | 5 | 5 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.987 | 4.9967 | 5.0174 | 0.010212 | 4.9847 | 4.9945 | 5.0135 | 0.0096334 | -0.0161 | -0.00222 | 0.0143 | 0.0078364 |
| 30 | 4.9838 | 5.0017 | 5.0176 | 0.014423 | 4.9763 | 4.9967 | 5.011 | 0.013976 | -0.0291 | -0.00503 | 0.0219 | 0.012357 |
| 50 | 4.9842 | 5.0009 | 5.014 | 0.010148 | 4.9738 | 4.9943 | 5.0101 | 0.012128 | -0.0272 | -0.00658 | 0.0083 | 0.0102 |

Device Test: 60.20 V_BP5H(_V_BP5H IIM 2MHz VIN_10V)

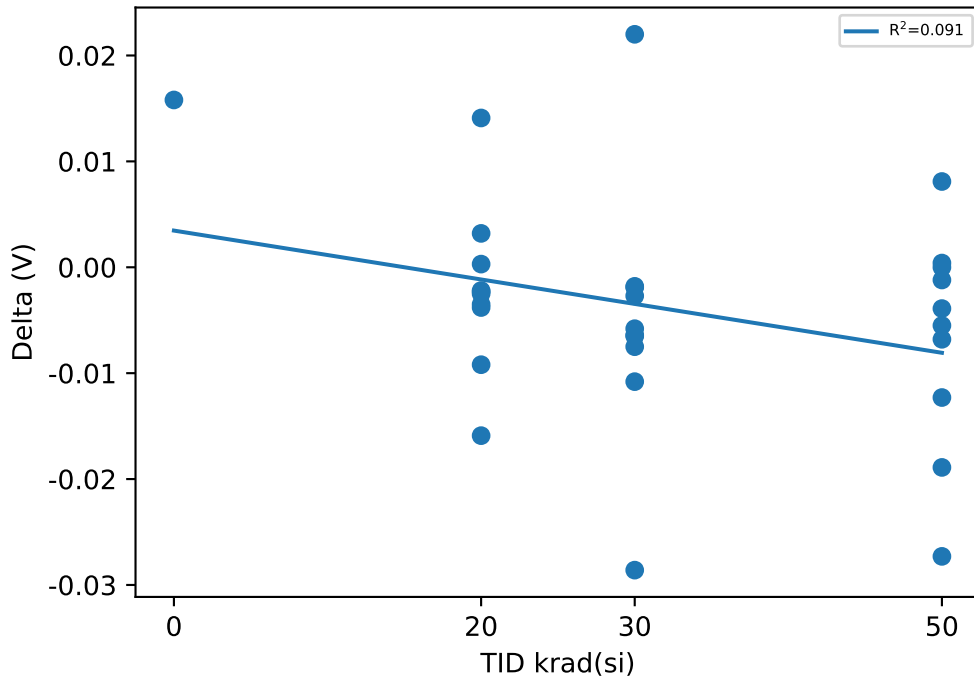
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9856 | 5.0014 | 0.0158 |
| 321 | 20 | HDR unbiased | 4.9884 | 4.9887 | 0.0003 |
| 322 | 20 | HDR unbiased | 5.0188 | 5.0153 | -0.0035 |
| 323 | 20 | HDR unbiased | 5.0067 | 4.9975 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.991 | 4.9888 | -0.0022 |
| 325 | 20 | HDR unbiased | 4.9915 | 4.9947 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9881 | 4.9823 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.0091 | 5.0064 | -0.0027 |
| 333 | 30 | HDR unbiased | 5.0192 | 5.0128 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9877 | 4.9859 | -0.0018 |
| 335 | 30 | HDR unbiased | 4.9853 | 4.9778 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9938 | 4.9749 | -0.0189 |
| 352 | 50 | HDR unbiased | 5.004 | 4.9917 | -0.0123 |
| 353 | 50 | HDR unbiased | 4.9857 | 4.9857 | 0 |
| 354 | 50 | HDR unbiased | 4.9986 | 5.0067 | 0.0081 |
| 355 | 50 | HDR unbiased | 5.0154 | 4.9881 | -0.0273 |
| 521 | 20 | HDR biased | 4.9899 | 4.9861 | -0.0038 |
| 522 | 20 | HDR biased | 5.0076 | 5.0053 | -0.0023 |
| 523 | 20 | HDR biased | 4.9944 | 4.9919 | -0.0025 |
| 524 | 20 | HDR biased | 4.9908 | 5.0049 | 0.0141 |
| 525 | 20 | HDR biased | 5.0033 | 4.9874 | -0.0159 |
| 531 | 30 | HDR biased | 5.014 | 5.0075 | -0.0065 |
| 532 | 30 | HDR biased | 5.0122 | 4.9836 | -0.0286 |
| 533 | 30 | HDR biased | 4.9866 | 5.0086 | 0.022 |
| 534 | 30 | HDR biased | 5.0188 | 5.008 | -0.0108 |
| 535 | 30 | HDR biased | 5.0116 | 5.0097 | -0.0019 |
| 551 | 50 | HDR biased | 4.9903 | 4.9848 | -0.0055 |
| 552 | 50 | HDR biased | 5.0076 | 5.0008 | -0.0068 |
| 553 | 50 | HDR biased | 5.0061 | 5.0049 | -0.0012 |
| 554 | 50 | HDR biased | 5.0076 | 5.008 | 0.0004 |
| 555 | 50 | HDR biased | 5.0155 | 5.0116 | -0.0039 |

TID vs Post - Pre Exposure Delta

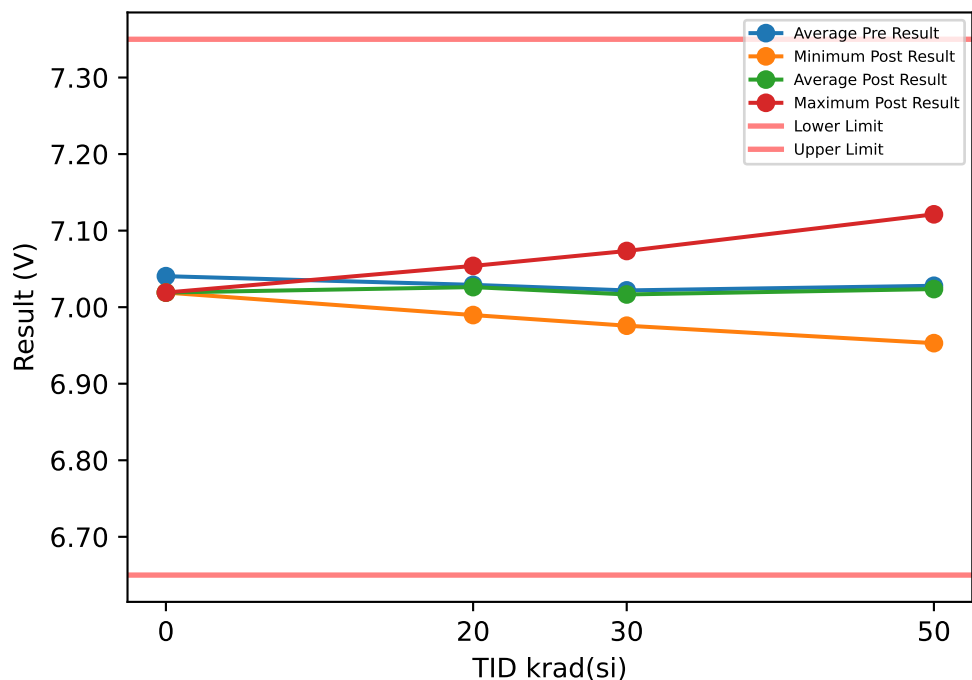


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9856 | 4.9856 | 4.9856 | | 5.0014 | 5.0014 | 5.0014 | | 0.0158 | 0.0158 | 0.0158 | |
| 20 | 4.9884 | 4.9982 | 5.0188 | 0.01023 | 4.9861 | 4.9961 | 5.0153 | 0.0096379 | -0.0159 | -0.00218 | 0.0141 | 0.0077613 |
| 30 | 4.9853 | 5.0033 | 5.0192 | 0.014401 | 4.9778 | 4.9983 | 5.0128 | 0.013891 | -0.0286 | -0.005 | 0.022 | 0.012274 |
| 50 | 4.9857 | 5.0025 | 5.0155 | 0.010136 | 4.9749 | 4.9957 | 5.0116 | 0.012297 | -0.0273 | -0.00674 | 0.0081 | 0.010319 |

Device Test: 60.21 V_BP7L(_V_BP7L IIM 5MHz VIN_10V)

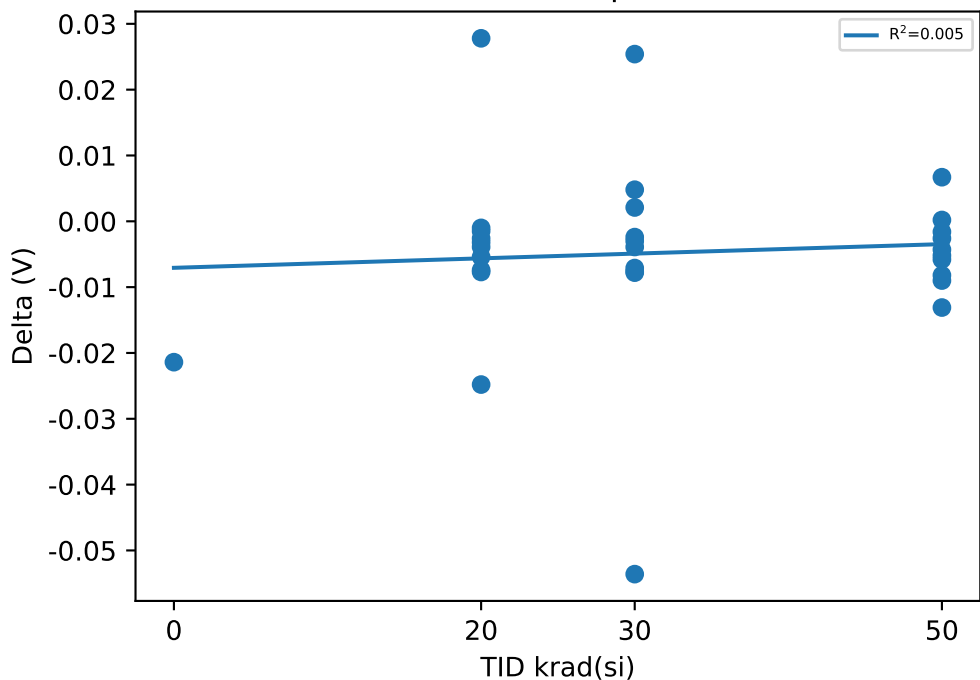
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0405 | 7.0191 | -0.0214 |
| 321 | 20 | HDR unbiased | 7.0593 | 7.0539 | -0.0054 |
| 322 | 20 | HDR unbiased | 7.0514 | 7.0475 | -0.0039 |
| 323 | 20 | HDR unbiased | 7.002 | 6.9946 | -0.0074 |
| 324 | 20 | HDR unbiased | 7.0193 | 7.0161 | -0.0032 |
| 325 | 20 | HDR unbiased | 7.0535 | 7.052 | -0.0015 |
| 331 | 30 | HDR unbiased | 6.9969 | 6.993 | -0.0039 |
| 332 | 30 | HDR unbiased | 6.9836 | 6.9758 | -0.0078 |
| 333 | 30 | HDR unbiased | 7.0176 | 7.01 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0119 | 7.0167 | 0.0048 |
| 335 | 30 | HDR unbiased | 6.9766 | 6.9787 | 0.0021 |
| 351 | 50 | HDR unbiased | 6.9955 | 7.0022 | 0.0067 |
| 352 | 50 | HDR unbiased | 6.9588 | 6.953 | -0.0058 |
| 353 | 50 | HDR unbiased | 7.0056 | 6.9925 | -0.0131 |
| 354 | 50 | HDR unbiased | 7.0586 | 7.057 | -0.0016 |
| 355 | 50 | HDR unbiased | 7.0579 | 7.0581 | 0.0002 |
| 521 | 20 | HDR biased | 7.0003 | 6.9926 | -0.0077 |
| 522 | 20 | HDR biased | 7.0433 | 7.0423 | -0.001 |
| 523 | 20 | HDR biased | 6.9923 | 6.9897 | -0.0026 |
| 524 | 20 | HDR biased | 7.0492 | 7.0244 | -0.0248 |
| 525 | 20 | HDR biased | 7.0212 | 7.049 | 0.0278 |
| 531 | 30 | HDR biased | 7.0528 | 7.0457 | -0.0071 |
| 532 | 30 | HDR biased | 7.0007 | 7.0261 | 0.0254 |
| 533 | 30 | HDR biased | 7.0477 | 6.9941 | -0.0536 |
| 534 | 30 | HDR biased | 7.0764 | 7.0734 | -0.003 |
| 535 | 30 | HDR biased | 7.0549 | 7.0525 | -0.0024 |
| 551 | 50 | HDR biased | 7.0147 | 7.0121 | -0.0026 |
| 552 | 50 | HDR biased | 7.0399 | 7.0356 | -0.0043 |
| 553 | 50 | HDR biased | 7.0165 | 7.0083 | -0.0082 |
| 554 | 50 | HDR biased | 7.0016 | 6.9964 | -0.0052 |
| 555 | 50 | HDR biased | 7.1303 | 7.1213 | -0.009 |

TID vs Post - Pre Exposure Delta

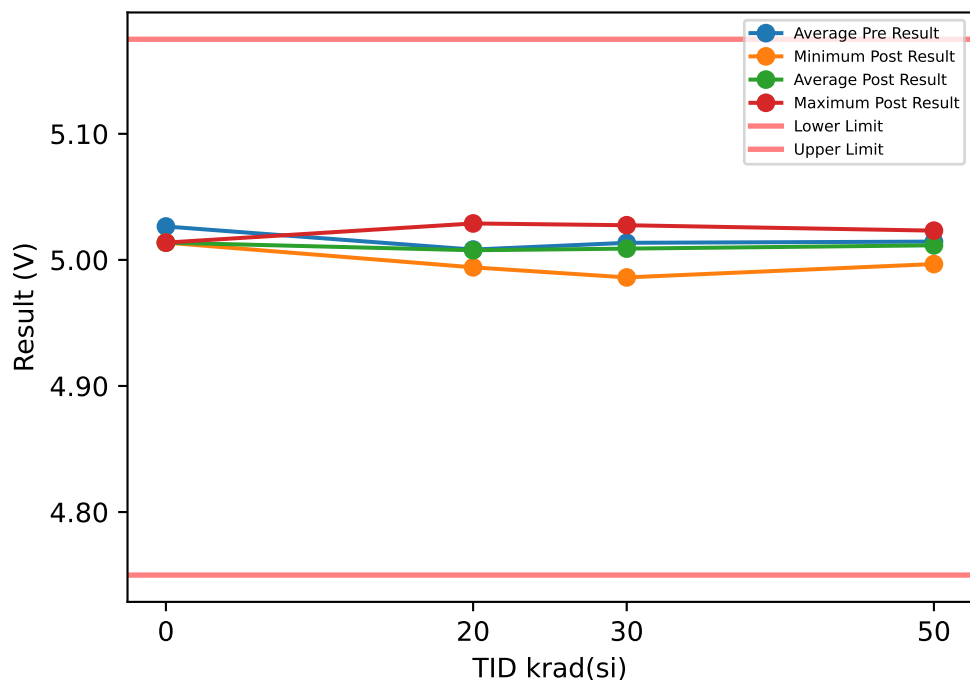


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0405 | 7.0405 | 7.0405 | | 7.0191 | 7.0191 | 7.0191 | | -0.0214 | -0.0214 | -0.0214 | |
| 20 | 6.9923 | 7.0292 | 7.0593 | 0.025137 | 6.9897 | 7.0262 | 7.0539 | 0.026312 | -0.0248 | -0.00297 | 0.0278 | 0.012816 |
| 30 | 6.9766 | 7.0219 | 7.0764 | 0.03398 | 6.9758 | 7.0166 | 7.0734 | 0.032762 | -0.0536 | -0.00531 | 0.0254 | 0.019615 |
| 50 | 6.9588 | 7.0279 | 7.1303 | 0.046892 | 6.953 | 7.0237 | 7.1213 | 0.04656 | -0.0131 | -0.00429 | 0.0067 | 0.0054694 |

Device Test: 60.22 V_BP5L(_V_BP5L IIM 5MHz VIN_10V)

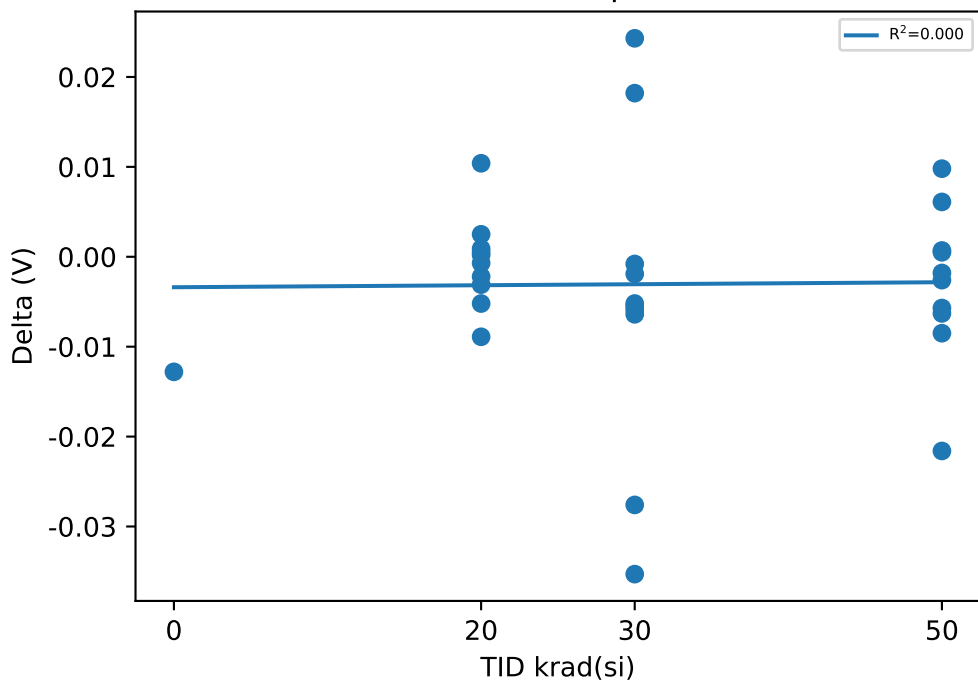
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0265 | 5.0137 | -0.0128 |
| 321 | 20 | HDR unbiased | 4.9963 | 4.9988 | 0.0025 |
| 322 | 20 | HDR unbiased | 5.0231 | 5.024 | 0.0009 |
| 323 | 20 | HDR unbiased | 5.0055 | 5.006 | 0.0005 |
| 324 | 20 | HDR unbiased | 5.0017 | 4.9986 | -0.0031 |
| 325 | 20 | HDR unbiased | 5.0119 | 5.0067 | -0.0052 |
| 331 | 30 | HDR unbiased | 5.0074 | 5.001 | -0.0064 |
| 332 | 30 | HDR unbiased | 5.0093 | 5.0038 | -0.0055 |
| 333 | 30 | HDR unbiased | 5.0238 | 5.0186 | -0.0052 |
| 334 | 30 | HDR unbiased | 5.0031 | 4.9972 | -0.0059 |
| 335 | 30 | HDR unbiased | 5.0263 | 5.0244 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0193 | 4.9977 | -0.0216 |
| 352 | 50 | HDR unbiased | 5.003 | 4.9967 | -0.0063 |
| 353 | 50 | HDR unbiased | 5.0006 | 5.0104 | 0.0098 |
| 354 | 50 | HDR unbiased | 5.021 | 5.0184 | -0.0026 |
| 355 | 50 | HDR unbiased | 5.026 | 5.0203 | -0.0057 |
| 521 | 20 | HDR biased | 5.0296 | 5.0289 | -0.0007 |
| 522 | 20 | HDR biased | 5.0004 | 4.9982 | -0.0022 |
| 523 | 20 | HDR biased | 4.9939 | 4.9941 | 0.0002 |
| 524 | 20 | HDR biased | 5.0048 | 5.0152 | 0.0104 |
| 525 | 20 | HDR biased | 5.0147 | 5.0058 | -0.0089 |
| 531 | 30 | HDR biased | 5.0137 | 4.9861 | -0.0276 |
| 532 | 30 | HDR biased | 5.031 | 4.9957 | -0.0353 |
| 533 | 30 | HDR biased | 4.9996 | 5.0239 | 0.0243 |
| 534 | 30 | HDR biased | 5.0283 | 5.0275 | -0.0008 |
| 535 | 30 | HDR biased | 4.993 | 5.0112 | 0.0182 |
| 551 | 50 | HDR biased | 5.0078 | 5.0083 | 0.0005 |
| 552 | 50 | HDR biased | 5.0115 | 5.0097 | -0.0018 |
| 553 | 50 | HDR biased | 5.0225 | 5.0232 | 0.0007 |
| 554 | 50 | HDR biased | 5.0243 | 5.0158 | -0.0085 |
| 555 | 50 | HDR biased | 5.009 | 5.0151 | 0.0061 |

TID vs Post - Pre Exposure Delta

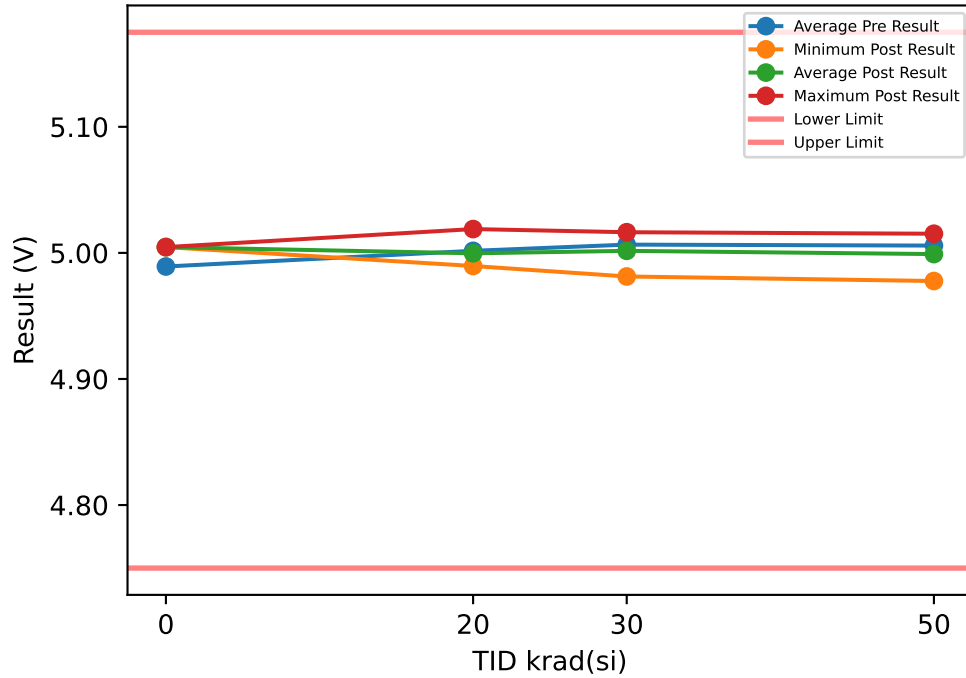


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0265 | 5.0265 | 5.0265 | | 5.0137 | 5.0137 | 5.0137 | | -0.0128 | -0.0128 | -0.0128 | |
| 20 | 4.9939 | 5.0082 | 5.0296 | 0.011566 | 4.9941 | 5.0076 | 5.0289 | 0.011624 | -0.0089 | -0.00056 | 0.0104 | 0.0050943 |
| 30 | 4.993 | 5.0136 | 5.031 | 0.013215 | 4.9861 | 5.0089 | 5.0275 | 0.014259 | -0.0353 | -0.00461 | 0.0243 | 0.017809 |
| 50 | 5.0006 | 5.0145 | 5.026 | 0.0092327 | 4.9967 | 5.0116 | 5.0232 | 0.0089289 | -0.0216 | -0.00294 | 0.0098 | 0.0086187 |

Device Test: 60.23 V_BP5H(_V_BP5H IIM 5MHz VIN_10V)

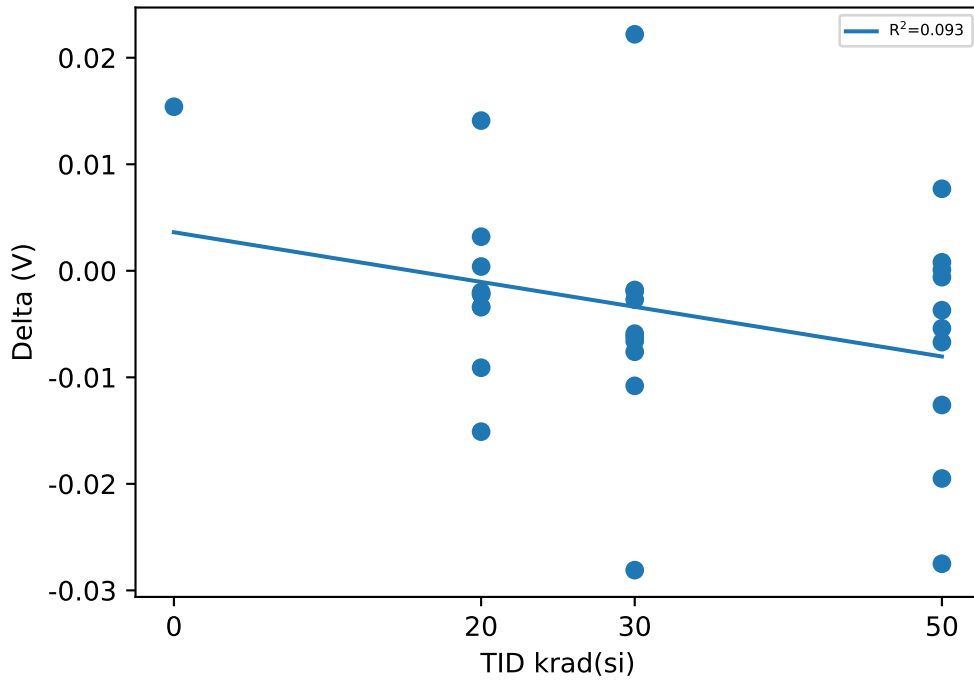
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9892 | 5.0046 | 0.0154 |
| 321 | 20 | HDR unbiased | 4.9921 | 4.9925 | 0.0004 |
| 322 | 20 | HDR unbiased | 5.0223 | 5.0189 | -0.0034 |
| 323 | 20 | HDR unbiased | 5.0101 | 5.001 | -0.0091 |
| 324 | 20 | HDR unbiased | 4.9944 | 4.9924 | -0.002 |
| 325 | 20 | HDR unbiased | 4.995 | 4.9982 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9916 | 4.9857 | -0.0059 |
| 332 | 30 | HDR unbiased | 5.0125 | 5.0098 | -0.0027 |
| 333 | 30 | HDR unbiased | 5.0226 | 5.0164 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9911 | 4.9892 | -0.0019 |
| 335 | 30 | HDR unbiased | 4.9889 | 4.9813 | -0.0076 |
| 351 | 50 | HDR unbiased | 4.9972 | 4.9777 | -0.0195 |
| 352 | 50 | HDR unbiased | 5.0075 | 4.9949 | -0.0126 |
| 353 | 50 | HDR unbiased | 4.9889 | 4.989 | 0.0001 |
| 354 | 50 | HDR unbiased | 5.0018 | 5.0095 | 0.0077 |
| 355 | 50 | HDR unbiased | 5.0188 | 4.9913 | -0.0275 |
| 521 | 20 | HDR biased | 4.993 | 4.9896 | -0.0034 |
| 522 | 20 | HDR biased | 5.011 | 5.0088 | -0.0022 |
| 523 | 20 | HDR biased | 4.9978 | 4.9956 | -0.0022 |
| 524 | 20 | HDR biased | 4.9943 | 5.0084 | 0.0141 |
| 525 | 20 | HDR biased | 5.0064 | 4.9913 | -0.0151 |
| 531 | 30 | HDR biased | 5.0173 | 5.0107 | -0.0066 |
| 532 | 30 | HDR biased | 5.0153 | 4.9872 | -0.0281 |
| 533 | 30 | HDR biased | 4.9895 | 5.0117 | 0.0222 |
| 534 | 30 | HDR biased | 5.0218 | 5.011 | -0.0108 |
| 535 | 30 | HDR biased | 5.015 | 5.0132 | -0.0018 |
| 551 | 50 | HDR biased | 4.9936 | 4.9882 | -0.0054 |
| 552 | 50 | HDR biased | 5.011 | 5.0043 | -0.0067 |
| 553 | 50 | HDR biased | 5.0093 | 5.0087 | -0.0006 |
| 554 | 50 | HDR biased | 5.011 | 5.0118 | 0.0008 |
| 555 | 50 | HDR biased | 5.0189 | 5.0152 | -0.0037 |

TID vs Post - Pre Exposure Delta

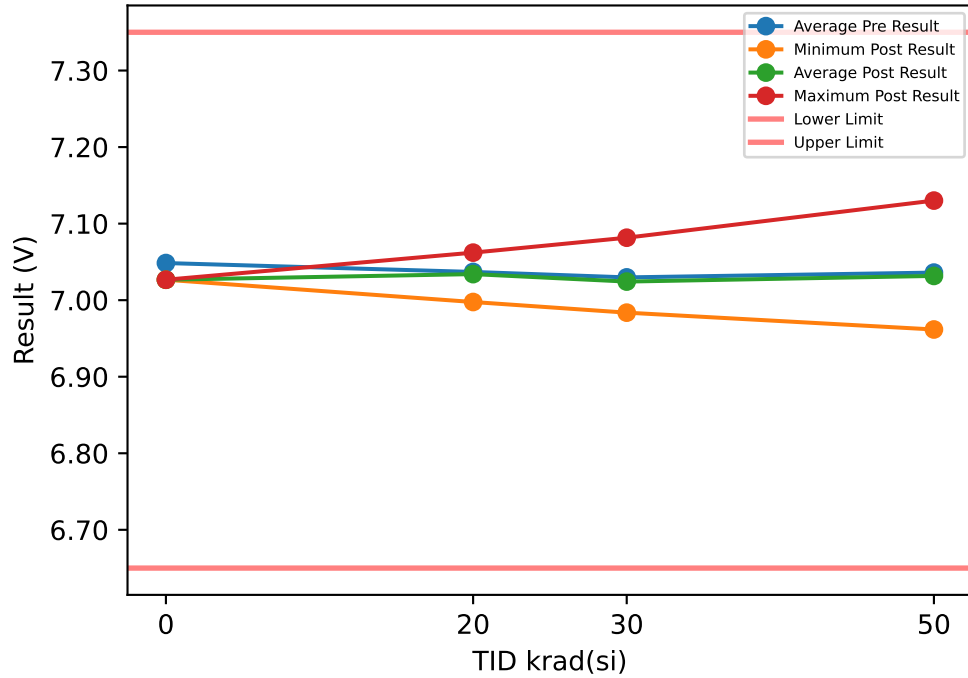


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9892 | 4.9892 | 4.9892 | | 5.0046 | 5.0046 | 5.0046 | | 0.0154 | 0.0154 | 0.0154 | |
| 20 | 4.9921 | 5.0016 | 5.0223 | 0.010217 | 4.9896 | 4.9997 | 5.0189 | 0.0095776 | -0.0151 | -0.00197 | 0.0141 | 0.0075867 |
| 30 | 4.9889 | 5.0066 | 5.0226 | 0.014351 | 4.9813 | 5.0016 | 5.0164 | 0.013824 | -0.0281 | -0.00494 | 0.0222 | 0.012219 |
| 50 | 4.9889 | 5.0058 | 5.0189 | 0.010188 | 4.9777 | 4.9991 | 5.0152 | 0.012495 | -0.0275 | -0.00674 | 0.0077 | 0.010483 |

Device Test: 60.3 V_BP7L(_V_BP7L PWM 1MHz VIN_10V)

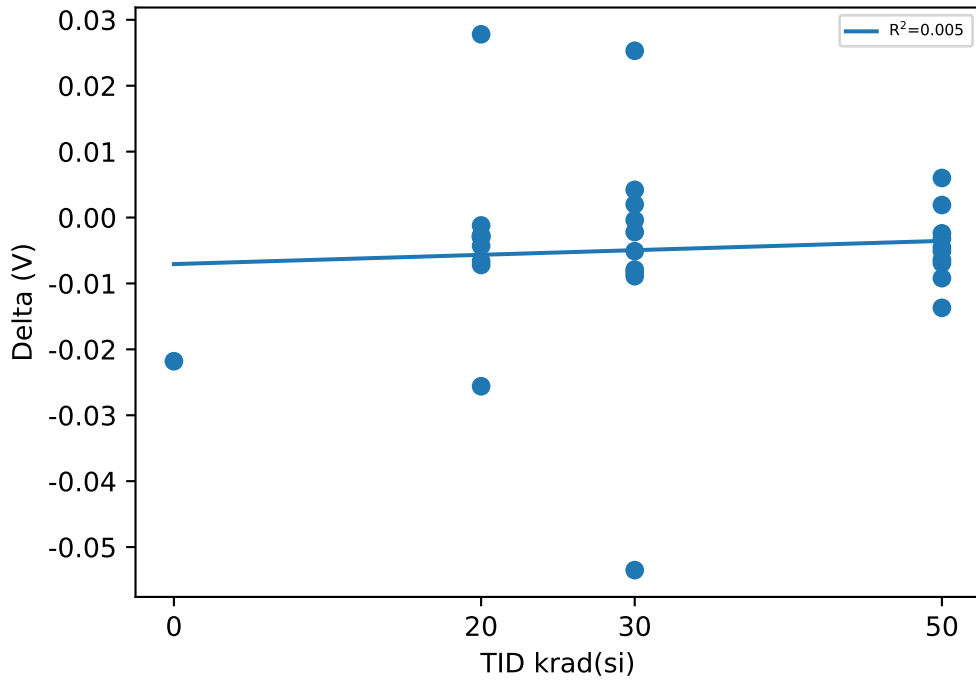
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0485 | 7.0267 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0664 | 7.0621 | -0.0043 |
| 322 | 20 | HDR unbiased | 7.0588 | 7.056 | -0.0028 |
| 323 | 20 | HDR unbiased | 7.0106 | 7.0034 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.0268 | 7.0238 | -0.003 |
| 325 | 20 | HDR unbiased | 7.0619 | 7.0592 | -0.0027 |
| 331 | 30 | HDR unbiased | 7.0054 | 7.0003 | -0.0051 |
| 332 | 30 | HDR unbiased | 6.9926 | 6.9837 | -0.0089 |
| 333 | 30 | HDR unbiased | 7.0261 | 7.0182 | -0.0079 |
| 334 | 30 | HDR unbiased | 7.0191 | 7.0233 | 0.0042 |
| 335 | 30 | HDR unbiased | 6.9837 | 6.9857 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0041 | 7.0101 | 0.006 |
| 352 | 50 | HDR unbiased | 6.9662 | 6.9617 | -0.0045 |
| 353 | 50 | HDR unbiased | 7.0136 | 6.9999 | -0.0137 |
| 354 | 50 | HDR unbiased | 7.0675 | 7.0643 | -0.0032 |
| 355 | 50 | HDR unbiased | 7.0652 | 7.0671 | 0.0019 |
| 521 | 20 | HDR biased | 7.0073 | 7.0007 | -0.0066 |
| 522 | 20 | HDR biased | 7.0509 | 7.0497 | -0.0012 |
| 523 | 20 | HDR biased | 7.0005 | 6.9976 | -0.0029 |
| 524 | 20 | HDR biased | 7.0572 | 7.0316 | -0.0256 |
| 525 | 20 | HDR biased | 7.0285 | 7.0563 | 0.0278 |
| 531 | 30 | HDR biased | 7.0615 | 7.0532 | -0.0083 |
| 532 | 30 | HDR biased | 7.009 | 7.0343 | 0.0253 |
| 533 | 30 | HDR biased | 7.0549 | 7.0014 | -0.0535 |
| 534 | 30 | HDR biased | 7.0838 | 7.0816 | -0.0022 |
| 535 | 30 | HDR biased | 7.0616 | 7.0612 | -0.0004 |
| 551 | 50 | HDR biased | 7.0221 | 7.0197 | -0.0024 |
| 552 | 50 | HDR biased | 7.0486 | 7.0435 | -0.0051 |
| 553 | 50 | HDR biased | 7.0237 | 7.0168 | -0.0069 |
| 554 | 50 | HDR biased | 7.01 | 7.0036 | -0.0064 |
| 555 | 50 | HDR biased | 7.1393 | 7.1301 | -0.0092 |

TID vs Post - Pre Exposure Delta

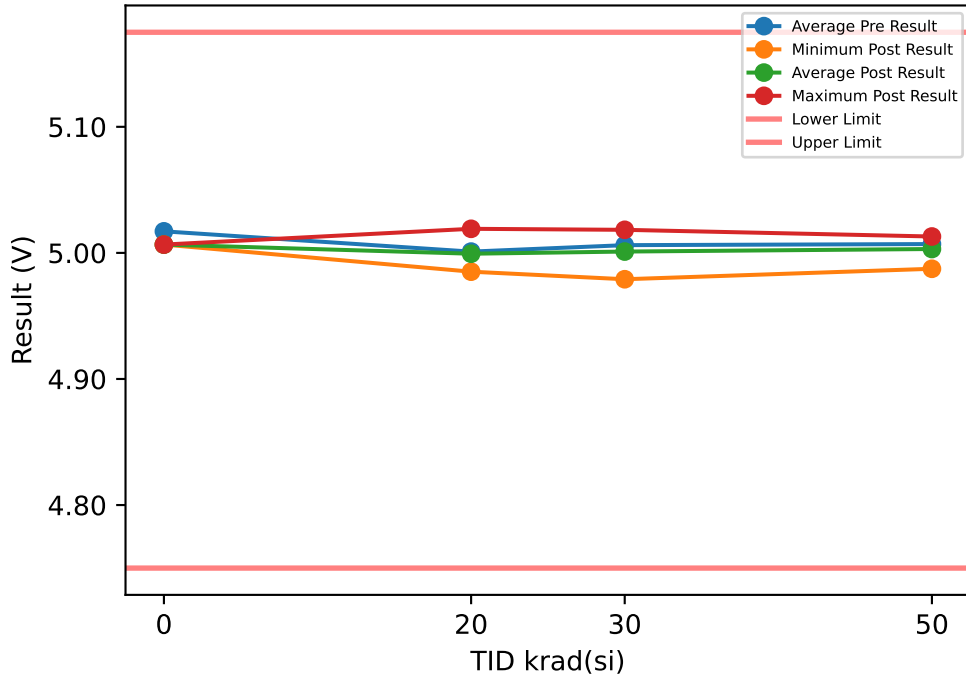


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0485 | 7.0485 | 7.0485 | | 7.0267 | 7.0267 | 7.0267 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 7.0005 | 7.0369 | 7.0664 | 0.025052 | 6.9976 | 7.034 | 7.0621 | 0.026103 | -0.0256 | -0.00285 | 0.0278 | 0.012888 |
| 30 | 6.9837 | 7.0298 | 7.0838 | 0.03371 | 6.9837 | 7.0243 | 7.0816 | 0.033094 | -0.0535 | -0.00548 | 0.0253 | 0.019622 |
| 50 | 6.9662 | 7.036 | 7.1393 | 0.047242 | 6.9617 | 7.0317 | 7.1301 | 0.046751 | -0.0137 | -0.00435 | 0.006 | 0.0055131 |

Device Test: 60.4 V_BP5L(_V_BP5L PWM 1MHz VIN_10V)

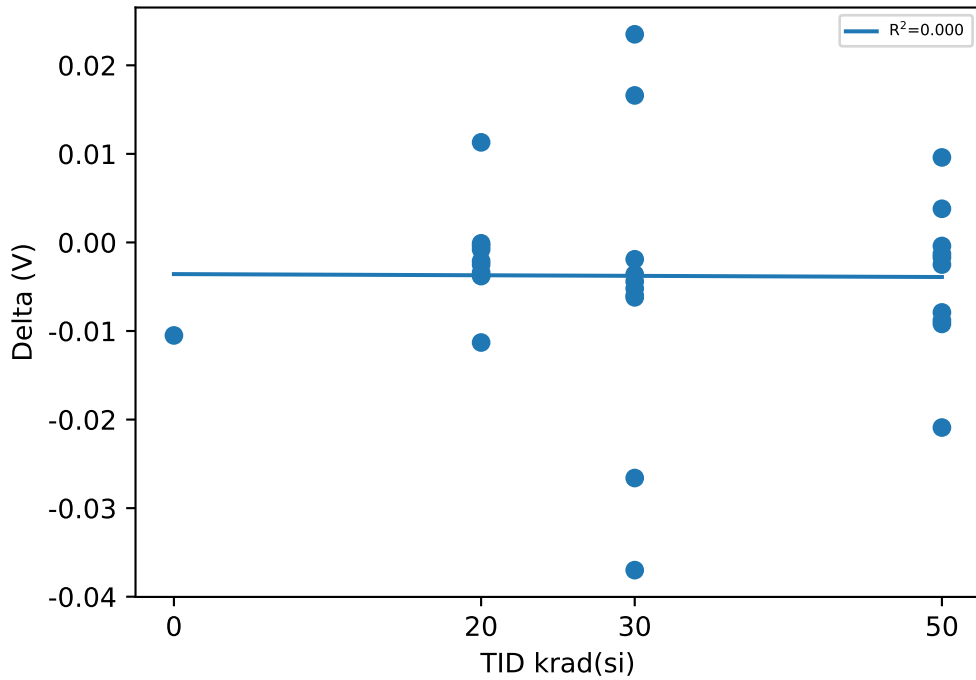
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0171 | 5.0066 | -0.0105 |
| 321 | 20 | HDR unbiased | 4.9901 | 4.99 | -0.0001 |
| 322 | 20 | HDR unbiased | 5.0167 | 5.0146 | -0.0021 |
| 323 | 20 | HDR unbiased | 4.9975 | 4.9971 | -0.0004 |
| 324 | 20 | HDR unbiased | 4.9952 | 4.9918 | -0.0034 |
| 325 | 20 | HDR unbiased | 5.0031 | 4.9994 | -0.0037 |
| 331 | 30 | HDR unbiased | 4.9999 | 4.9947 | -0.0052 |
| 332 | 30 | HDR unbiased | 5.0011 | 4.9967 | -0.0044 |
| 333 | 30 | HDR unbiased | 5.0147 | 5.0085 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9971 | 4.9911 | -0.006 |
| 335 | 30 | HDR unbiased | 5.019 | 5.0171 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0115 | 4.9906 | -0.0209 |
| 352 | 50 | HDR unbiased | 4.9966 | 4.9874 | -0.0092 |
| 353 | 50 | HDR unbiased | 4.9942 | 5.0038 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.012 | 5.0107 | -0.0013 |
| 355 | 50 | HDR unbiased | 5.0187 | 5.0099 | -0.0088 |
| 521 | 20 | HDR biased | 5.0229 | 5.0191 | -0.0038 |
| 522 | 20 | HDR biased | 4.9935 | 4.991 | -0.0025 |
| 523 | 20 | HDR biased | 4.9859 | 4.9851 | -0.0008 |
| 524 | 20 | HDR biased | 4.9971 | 5.0084 | 0.0113 |
| 525 | 20 | HDR biased | 5.0082 | 4.9969 | -0.0113 |
| 531 | 30 | HDR biased | 5.0057 | 4.9791 | -0.0266 |
| 532 | 30 | HDR biased | 5.0226 | 4.9856 | -0.037 |
| 533 | 30 | HDR biased | 4.9934 | 5.0169 | 0.0235 |
| 534 | 30 | HDR biased | 5.0219 | 5.0183 | -0.0036 |
| 535 | 30 | HDR biased | 4.986 | 5.0026 | 0.0166 |
| 551 | 50 | HDR biased | 5.0009 | 5.0005 | -0.0004 |
| 552 | 50 | HDR biased | 5.0039 | 5.0022 | -0.0017 |
| 553 | 50 | HDR biased | 5.0155 | 5.013 | -0.0025 |
| 554 | 50 | HDR biased | 5.0163 | 5.0084 | -0.0079 |
| 555 | 50 | HDR biased | 5.0005 | 5.0043 | 0.0038 |

TID vs Post - Pre Exposure Delta

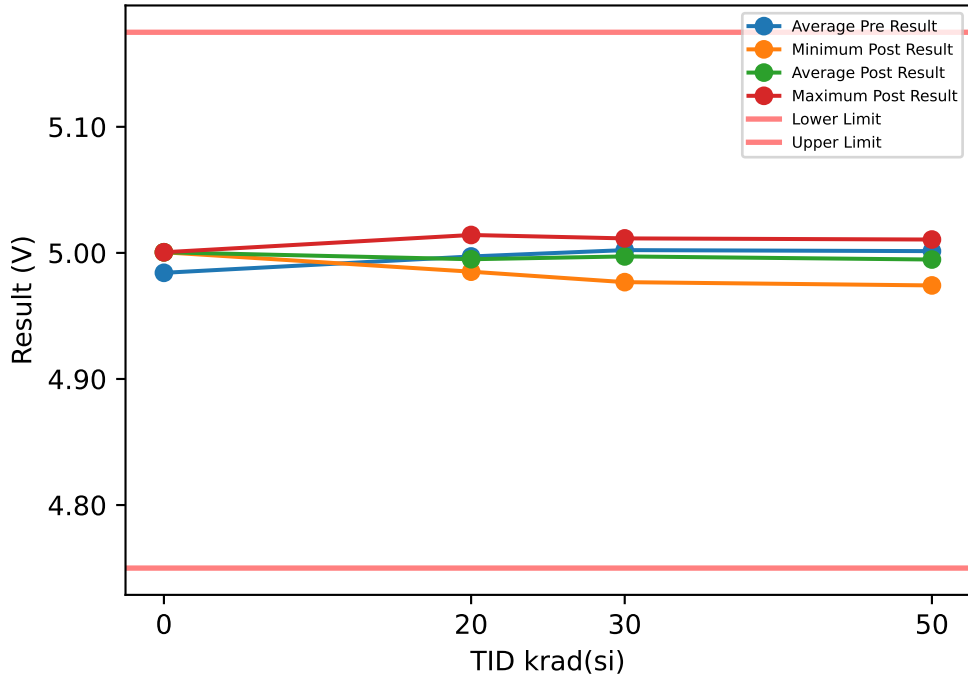


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0171 | 5.0171 | 5.0171 | | 5.0066 | 5.0066 | 5.0066 | | -0.0105 | -0.0105 | -0.0105 | |
| 20 | 4.9859 | 5.001 | 5.0229 | 0.011769 | 4.9851 | 4.9993 | 5.0191 | 0.011219 | -0.0113 | -0.00168 | 0.0113 | 0.0055609 |
| 30 | 4.986 | 5.0061 | 5.0226 | 0.01279 | 4.9791 | 5.0011 | 5.0183 | 0.013917 | -0.037 | -0.00508 | 0.0235 | 0.017587 |
| 50 | 4.9942 | 5.007 | 5.0187 | 0.0088314 | 4.9874 | 5.0031 | 5.013 | 0.0084481 | -0.0209 | -0.00393 | 0.0096 | 0.0083296 |

Device Test: 60.5 V_BP5H(V_BP5H PWM 1MHz VIN_10V)

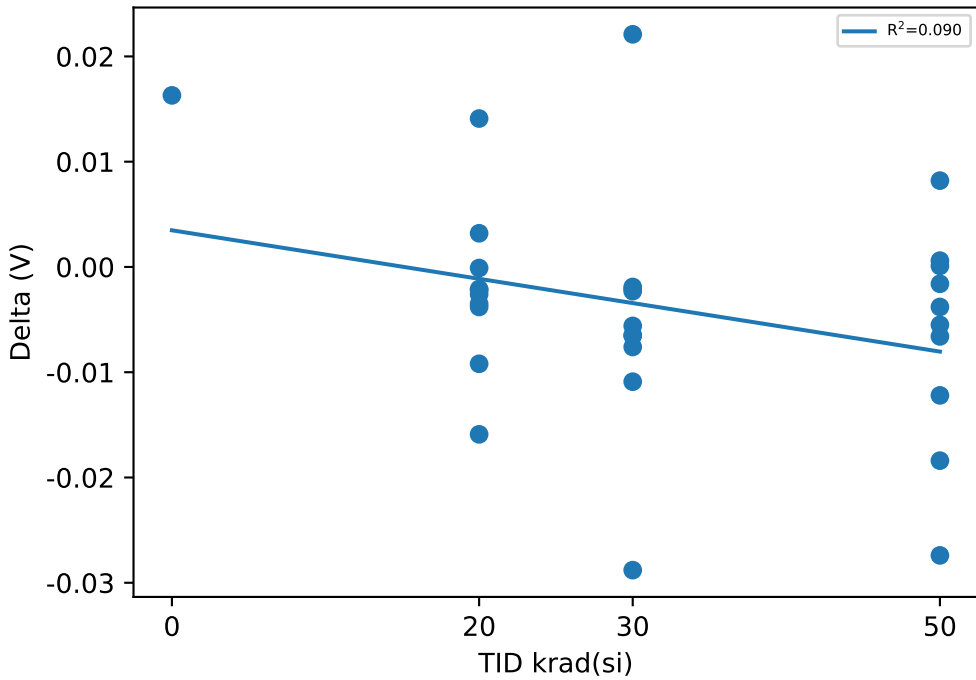
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9842 | 5.0005 | 0.0163 |
| 321 | 20 | HDR unbiased | 4.9875 | 4.9874 | -0.0001 |
| 322 | 20 | HDR unbiased | 5.0177 | 5.0142 | -0.0035 |
| 323 | 20 | HDR unbiased | 5.0055 | 4.9963 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.99 | 4.9879 | -0.0021 |
| 325 | 20 | HDR unbiased | 4.9904 | 4.9936 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9868 | 4.9812 | -0.0056 |
| 332 | 30 | HDR unbiased | 5.0078 | 5.0055 | -0.0023 |
| 333 | 30 | HDR unbiased | 5.018 | 5.0115 | -0.0065 |
| 334 | 30 | HDR unbiased | 4.9868 | 4.9849 | -0.0019 |
| 335 | 30 | HDR unbiased | 4.9844 | 4.9768 | -0.0076 |
| 351 | 50 | HDR unbiased | 4.9926 | 4.9742 | -0.0184 |
| 352 | 50 | HDR unbiased | 5.0027 | 4.9905 | -0.0122 |
| 353 | 50 | HDR unbiased | 4.9846 | 4.9847 | 0.0001 |
| 354 | 50 | HDR unbiased | 4.9975 | 5.0057 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0145 | 4.9871 | -0.0274 |
| 521 | 20 | HDR biased | 4.9889 | 4.9851 | -0.0038 |
| 522 | 20 | HDR biased | 5.0065 | 5.0043 | -0.0022 |
| 523 | 20 | HDR biased | 4.9933 | 4.9907 | -0.0026 |
| 524 | 20 | HDR biased | 4.9897 | 5.0038 | 0.0141 |
| 525 | 20 | HDR biased | 5.0022 | 4.9863 | -0.0159 |
| 531 | 30 | HDR biased | 5.013 | 5.0065 | -0.0065 |
| 532 | 30 | HDR biased | 5.0111 | 4.9823 | -0.0288 |
| 533 | 30 | HDR biased | 4.9855 | 5.0076 | 0.0221 |
| 534 | 30 | HDR biased | 5.018 | 5.0071 | -0.0109 |
| 535 | 30 | HDR biased | 5.0107 | 5.0086 | -0.0021 |
| 551 | 50 | HDR biased | 4.9895 | 4.984 | -0.0055 |
| 552 | 50 | HDR biased | 5.0066 | 5 | -0.0066 |
| 553 | 50 | HDR biased | 5.0053 | 5.0037 | -0.0016 |
| 554 | 50 | HDR biased | 5.0063 | 5.0069 | 0.0006 |
| 555 | 50 | HDR biased | 5.0144 | 5.0106 | -0.0038 |

TID vs Post - Pre Exposure Delta

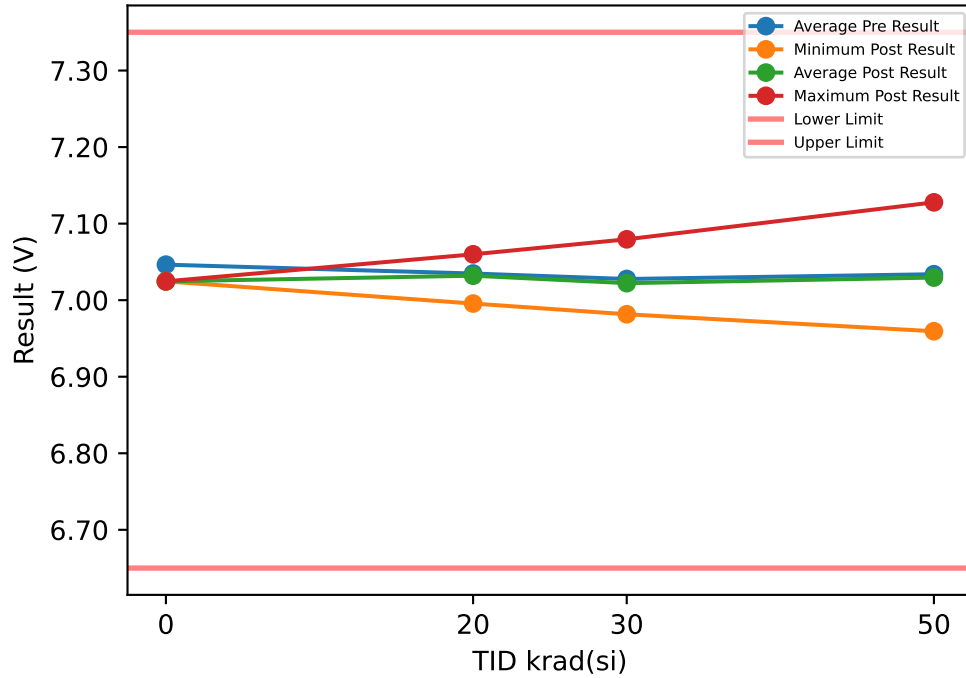


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9842 | 4.9842 | 4.9842 | | 5.0005 | 5.0005 | 5.0005 | | 0.0163 | 0.0163 | 0.0163 | |
| 20 | 4.9875 | 4.9972 | 5.0177 | 0.010182 | 4.9851 | 4.995 | 5.0142 | 0.0096411 | -0.0159 | -0.00221 | 0.0141 | 0.0077486 |
| 30 | 4.9844 | 5.0022 | 5.018 | 0.01441 | 4.9768 | 4.9972 | 5.0115 | 0.01391 | -0.0288 | -0.00501 | 0.0221 | 0.012349 |
| 50 | 4.9846 | 5.0014 | 5.0145 | 0.010138 | 4.9742 | 4.9947 | 5.0106 | 0.01221 | -0.0274 | -0.00666 | 0.0082 | 0.01029 |

Device Test: 60.6 V_BP7L(_V_BP7L PWM 2MHz VIN_10V)

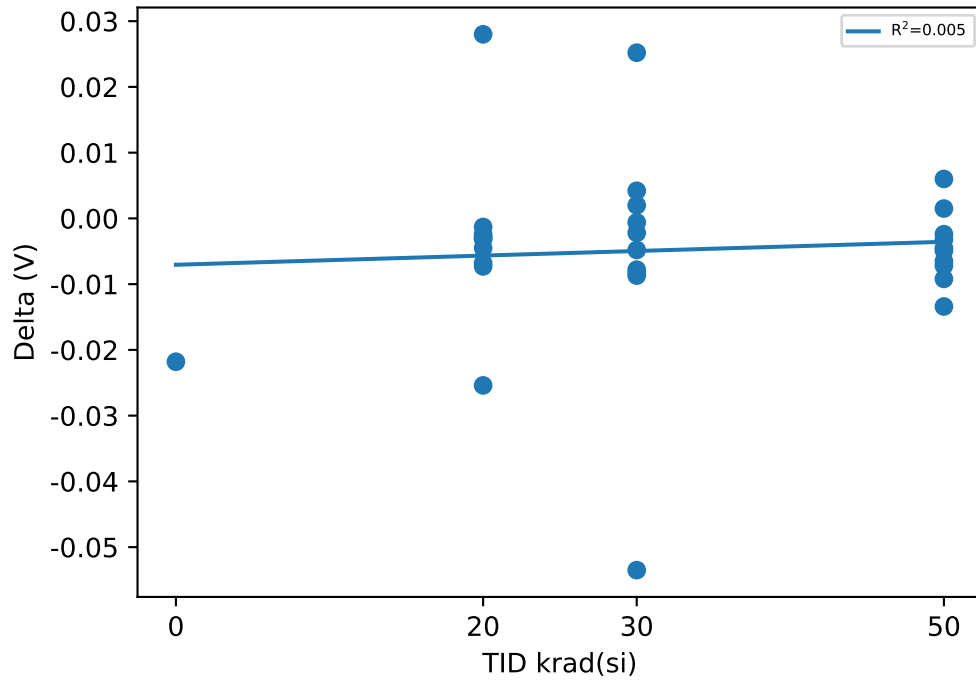
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0464 | 7.0246 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0644 | 7.0599 | -0.0045 |
| 322 | 20 | HDR unbiased | 7.0568 | 7.0537 | -0.0031 |
| 323 | 20 | HDR unbiased | 7.0085 | 7.0012 | -0.0073 |
| 324 | 20 | HDR unbiased | 7.0247 | 7.0216 | -0.0031 |
| 325 | 20 | HDR unbiased | 7.0597 | 7.0573 | -0.0024 |
| 331 | 30 | HDR unbiased | 7.0031 | 6.9983 | -0.0048 |
| 332 | 30 | HDR unbiased | 6.9903 | 6.9816 | -0.0087 |
| 333 | 30 | HDR unbiased | 7.0238 | 7.016 | -0.0078 |
| 334 | 30 | HDR unbiased | 7.0172 | 7.0214 | 0.0042 |
| 335 | 30 | HDR unbiased | 6.9818 | 6.9838 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0018 | 7.0078 | 0.006 |
| 352 | 50 | HDR unbiased | 6.9643 | 6.9594 | -0.0049 |
| 353 | 50 | HDR unbiased | 7.0114 | 6.998 | -0.0134 |
| 354 | 50 | HDR unbiased | 7.0653 | 7.0621 | -0.0032 |
| 355 | 50 | HDR unbiased | 7.0633 | 7.0648 | 0.0015 |
| 521 | 20 | HDR biased | 7.0054 | 6.9986 | -0.0068 |
| 522 | 20 | HDR biased | 7.049 | 7.0477 | -0.0013 |
| 523 | 20 | HDR biased | 6.9984 | 6.9956 | -0.0028 |
| 524 | 20 | HDR biased | 7.055 | 7.0296 | -0.0254 |
| 525 | 20 | HDR biased | 7.0264 | 7.0544 | 0.028 |
| 531 | 30 | HDR biased | 7.0593 | 7.051 | -0.0083 |
| 532 | 30 | HDR biased | 7.0068 | 7.032 | 0.0252 |
| 533 | 30 | HDR biased | 7.0531 | 6.9996 | -0.0535 |
| 534 | 30 | HDR biased | 7.0817 | 7.0795 | -0.0022 |
| 535 | 30 | HDR biased | 7.0597 | 7.0591 | -0.0006 |
| 551 | 50 | HDR biased | 7.0201 | 7.0177 | -0.0024 |
| 552 | 50 | HDR biased | 7.0461 | 7.0416 | -0.0045 |
| 553 | 50 | HDR biased | 7.0218 | 7.0146 | -0.0072 |
| 554 | 50 | HDR biased | 7.0079 | 7.0014 | -0.0065 |
| 555 | 50 | HDR biased | 7.137 | 7.1278 | -0.0092 |

TID vs Post - Pre Exposure Delta

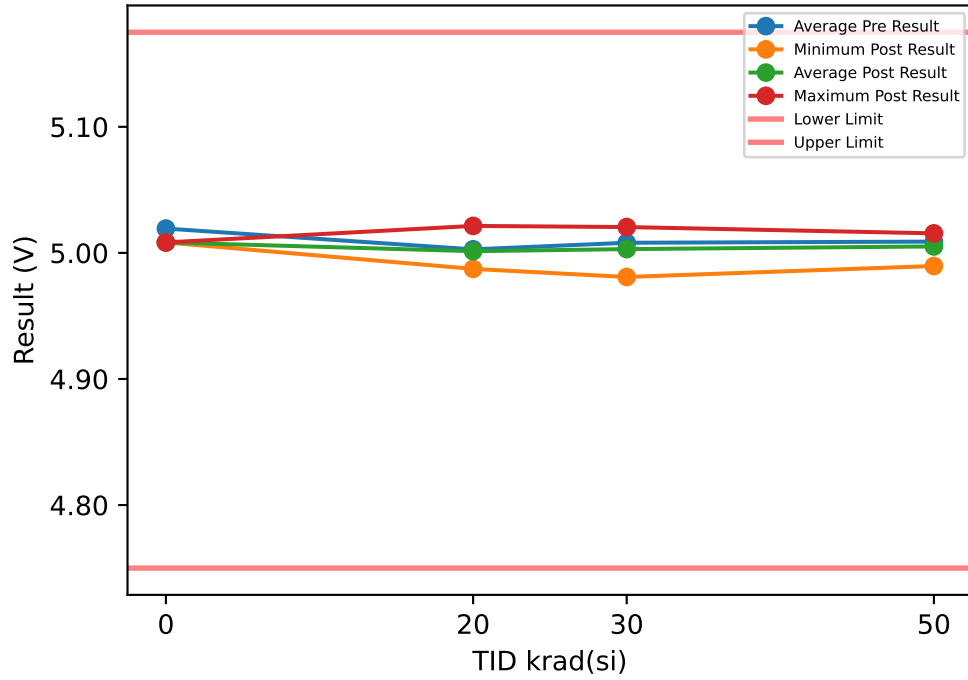


Test Statistics (V)

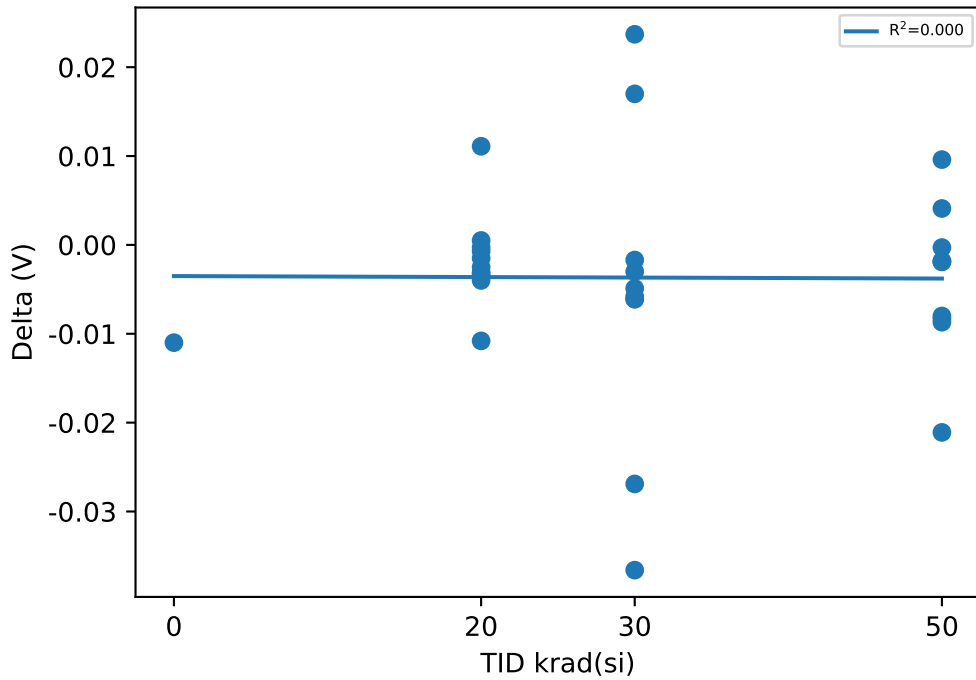
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0464 | 7.0464 | 7.0464 | | 7.0246 | 7.0246 | 7.0246 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 6.9984 | 7.0348 | 7.0644 | 0.025041 | 6.9956 | 7.032 | 7.0599 | 0.026121 | -0.0254 | -0.00287 | 0.028 | 0.012915 |
| 30 | 6.9818 | 7.0277 | 7.0817 | 0.033758 | 6.9816 | 7.0222 | 7.0795 | 0.033022 | -0.0535 | -0.00545 | 0.0252 | 0.019595 |
| 50 | 6.9643 | 7.0339 | 7.137 | 0.047167 | 6.9594 | 7.0295 | 7.1278 | 0.046722 | -0.0134 | -0.00438 | 0.006 | 0.0054258 |

Device Test: 60.7 V_BP5L(_V_BP5L PWM 2MHz VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

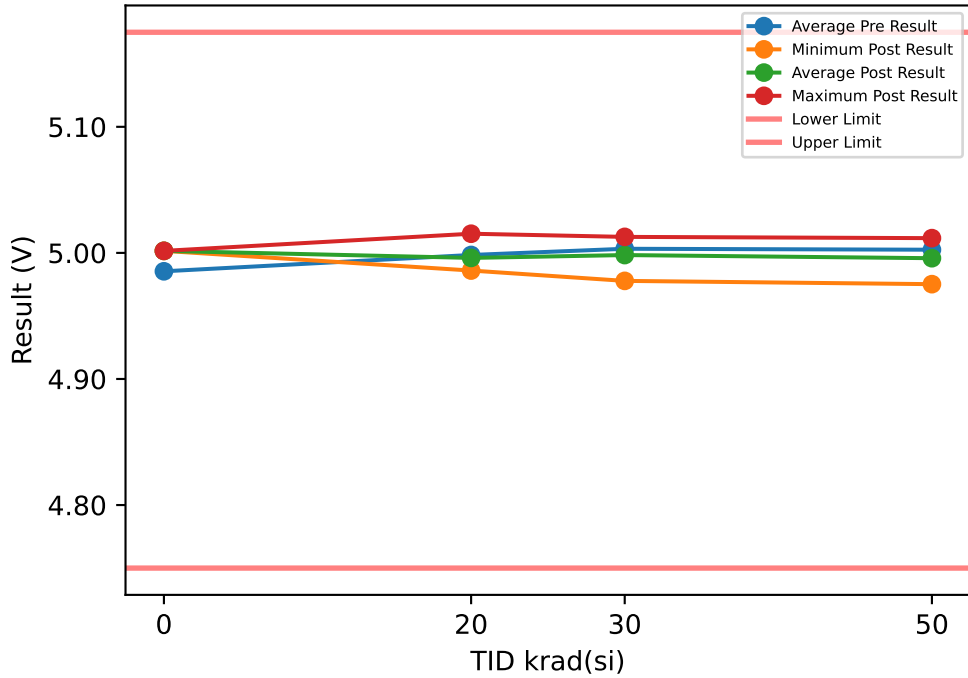
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0193 | 5.0083 | -0.011 |
| 321 | 20 | HDR unbiased | 4.9916 | 4.9921 | 0.0005 |
| 322 | 20 | HDR unbiased | 5.0183 | 5.0168 | -0.0015 |
| 323 | 20 | HDR unbiased | 4.9996 | 4.9993 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9968 | 4.9935 | -0.0033 |
| 325 | 20 | HDR unbiased | 5.0053 | 5.0013 | -0.004 |
| 331 | 30 | HDR unbiased | 5.002 | 4.9962 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.0033 | 4.9984 | -0.0049 |
| 333 | 30 | HDR unbiased | 5.017 | 5.0109 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9987 | 4.9926 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.0207 | 5.019 | -0.0017 |
| 351 | 50 | HDR unbiased | 5.0134 | 4.9923 | -0.0211 |
| 352 | 50 | HDR unbiased | 4.9983 | 4.9896 | -0.0087 |
| 353 | 50 | HDR unbiased | 4.9958 | 5.0054 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0143 | 5.0125 | -0.0018 |
| 355 | 50 | HDR unbiased | 5.0205 | 5.0125 | -0.008 |
| 521 | 20 | HDR biased | 5.0245 | 5.0214 | -0.0031 |
| 522 | 20 | HDR biased | 4.9952 | 4.9927 | -0.0025 |
| 523 | 20 | HDR biased | 4.988 | 4.9873 | -0.0007 |
| 524 | 20 | HDR biased | 4.9991 | 5.0102 | 0.0111 |
| 525 | 20 | HDR biased | 5.0098 | 4.999 | -0.0108 |
| 531 | 30 | HDR biased | 5.0078 | 4.9809 | -0.0269 |
| 532 | 30 | HDR biased | 5.0247 | 4.9881 | -0.0366 |
| 533 | 30 | HDR biased | 4.9949 | 5.0186 | 0.0237 |
| 534 | 30 | HDR biased | 5.0235 | 5.0205 | -0.003 |
| 535 | 30 | HDR biased | 4.9878 | 5.0048 | 0.017 |
| 551 | 50 | HDR biased | 5.0026 | 5.0023 | -0.0003 |
| 552 | 50 | HDR biased | 5.0059 | 5.004 | -0.0019 |
| 553 | 50 | HDR biased | 5.0174 | 5.0155 | -0.0019 |
| 554 | 50 | HDR biased | 5.0185 | 5.0102 | -0.0083 |
| 555 | 50 | HDR biased | 5.0028 | 5.0069 | 0.0041 |

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 | 5.0193 | 5.0193 | 5.0193 | | 5.0083 | 5.0083 | 5.0083 | | -0.011 | -0.011 | -0.011 | |
| 20 | 4.988 | 5.0028 | 5.0245 | 0.011684 | 4.9873 | 5.0014 | 5.0214 | 0.011295 | -0.0108 | -0.00146 | 0.0111 | 0.0054198 |
| 30 | 4.9878 | 5.008 | 5.0247 | 0.012848 | 4.9809 | 5.003 | 5.0205 | 0.013973 | -0.0366 | -0.00504 | 0.0237 | 0.01765 |
| 50 | 4.9958 | 5.009 | 5.0205 | 0.0089332 | 4.9896 | 5.0051 | 5.0155 | 0.0085645 | -0.0211 | -0.00383 | 0.0096 | 0.0083441 |

Device Test: 60.8 V_BP5H(V_BP5H PWM 2MHz VIN_10V)

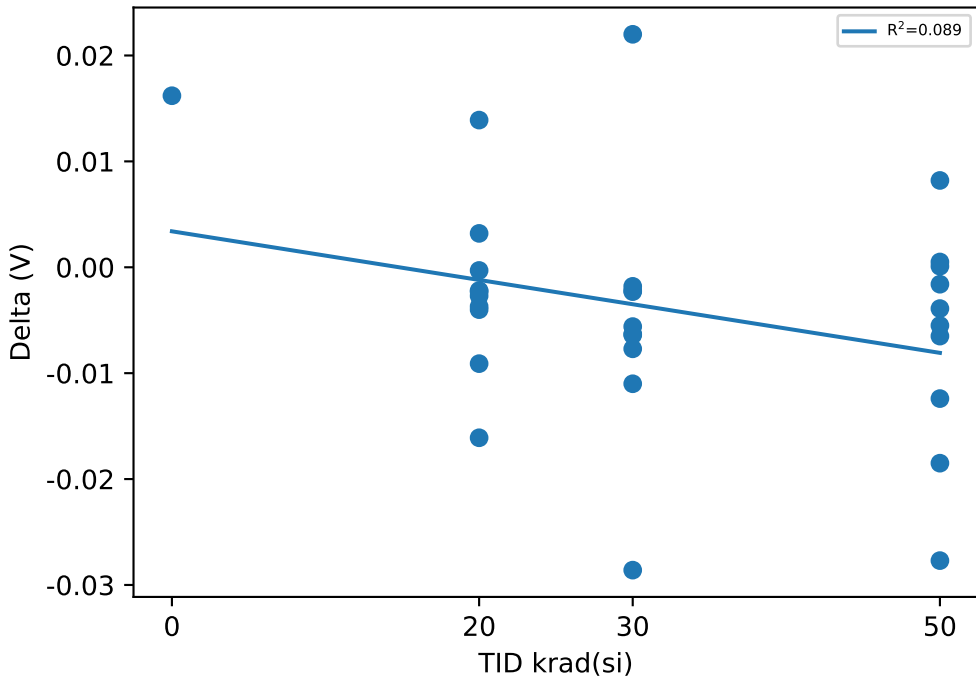
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9854 | 5.0016 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9888 | 4.9885 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0189 | 5.0152 | -0.0037 |
| 323 | 20 | HDR unbiased | 5.0066 | 4.9975 | -0.0091 |
| 324 | 20 | HDR unbiased | 4.9912 | 4.9889 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9915 | 4.9947 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9879 | 4.9823 | -0.0056 |
| 332 | 30 | HDR unbiased | 5.0089 | 5.0066 | -0.0023 |
| 333 | 30 | HDR unbiased | 5.0191 | 5.0127 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9879 | 4.9861 | -0.0018 |
| 335 | 30 | HDR unbiased | 4.9855 | 4.9778 | -0.0077 |
| 351 | 50 | HDR unbiased | 4.9937 | 4.9752 | -0.0185 |
| 352 | 50 | HDR unbiased | 5.004 | 4.9916 | -0.0124 |
| 353 | 50 | HDR unbiased | 4.9857 | 4.9858 | 0.0001 |
| 354 | 50 | HDR unbiased | 4.9985 | 5.0067 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0157 | 4.988 | -0.0277 |
| 521 | 20 | HDR biased | 4.99 | 4.986 | -0.004 |
| 522 | 20 | HDR biased | 5.0077 | 5.0055 | -0.0022 |
| 523 | 20 | HDR biased | 4.9945 | 4.9918 | -0.0027 |
| 524 | 20 | HDR biased | 4.9909 | 5.0048 | 0.0139 |
| 525 | 20 | HDR biased | 5.0034 | 4.9873 | -0.0161 |
| 531 | 30 | HDR biased | 5.0139 | 5.0076 | -0.0063 |
| 532 | 30 | HDR biased | 5.0121 | 4.9835 | -0.0286 |
| 533 | 30 | HDR biased | 4.9866 | 5.0086 | 0.022 |
| 534 | 30 | HDR biased | 5.019 | 5.008 | -0.011 |
| 535 | 30 | HDR biased | 5.0118 | 5.0096 | -0.0022 |
| 551 | 50 | HDR biased | 4.9905 | 4.985 | -0.0055 |
| 552 | 50 | HDR biased | 5.0076 | 5.0011 | -0.0065 |
| 553 | 50 | HDR biased | 5.0064 | 5.0048 | -0.0016 |
| 554 | 50 | HDR biased | 5.0075 | 5.008 | 0.0005 |
| 555 | 50 | HDR biased | 5.0156 | 5.0117 | -0.0039 |

TID vs Post - Pre Exposure Delta

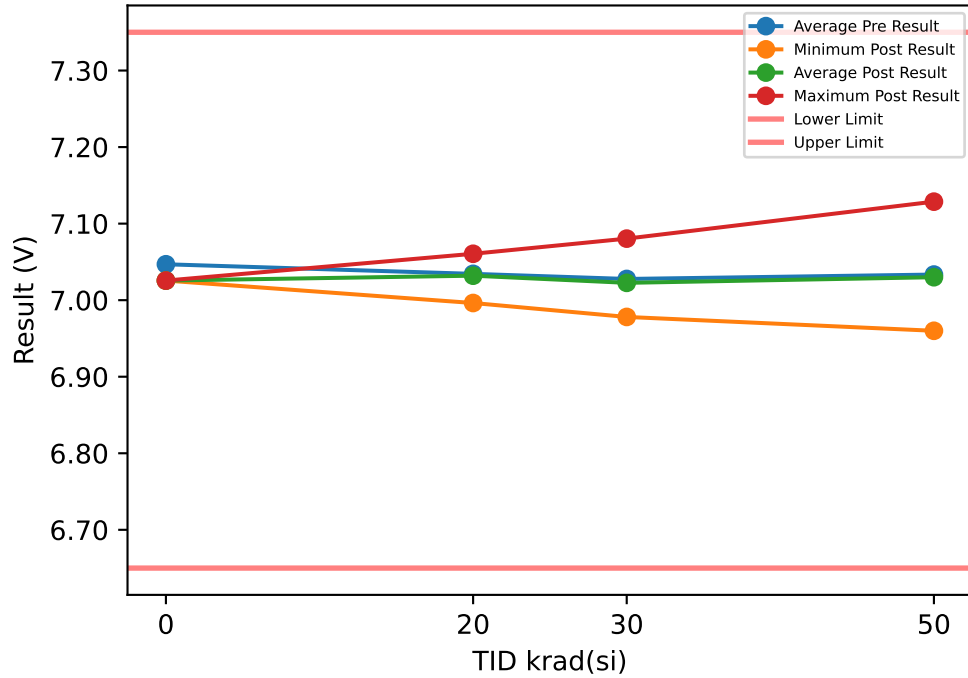


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9854 | 4.9854 | 4.9854 | | 5.0016 | 5.0016 | 5.0016 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9888 | 4.9984 | 5.0189 | 0.010179 | 4.986 | 4.996 | 5.0152 | 0.0096624 | -0.0161 | -0.00233 | 0.0139 | 0.0077343 |
| 30 | 4.9855 | 5.0033 | 5.0191 | 0.014374 | 4.9778 | 4.9983 | 5.0127 | 0.013883 | -0.0286 | -0.00499 | 0.022 | 0.012287 |
| 50 | 4.9857 | 5.0025 | 5.0157 | 0.010187 | 4.9752 | 4.9958 | 5.0117 | 0.012243 | -0.0277 | -0.00673 | 0.0082 | 0.010372 |

Device Test: 60.9 V_BP7L(_V_BP7L PWM 5MHz VIN_10V)

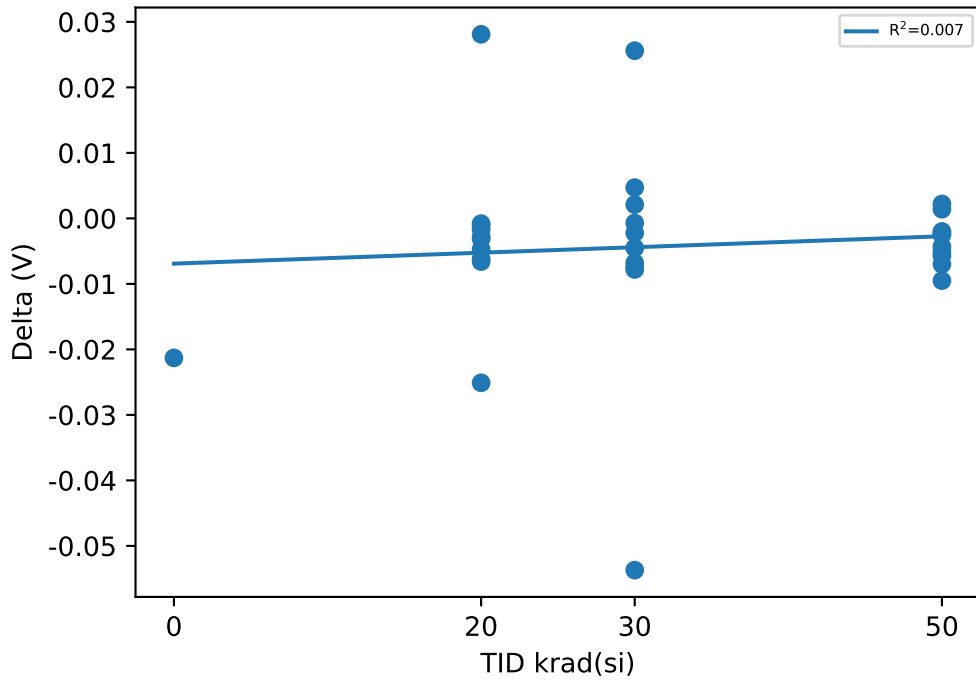
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0469 | 7.0256 | -0.0213 |
| 321 | 20 | HDR unbiased | 7.0653 | 7.0606 | -0.0047 |
| 322 | 20 | HDR unbiased | 7.0575 | 7.0544 | -0.0031 |
| 323 | 20 | HDR unbiased | 7.0024 | 7.0016 | -0.0008 |
| 324 | 20 | HDR unbiased | 7.0216 | 7.0154 | -0.0062 |
| 325 | 20 | HDR unbiased | 7.0601 | 7.0584 | -0.0017 |
| 331 | 30 | HDR unbiased | 7.0033 | 6.9988 | -0.0045 |
| 332 | 30 | HDR unbiased | 6.9849 | 6.9781 | -0.0068 |
| 333 | 30 | HDR unbiased | 7.0242 | 7.0167 | -0.0075 |
| 334 | 30 | HDR unbiased | 7.0179 | 7.0226 | 0.0047 |
| 335 | 30 | HDR unbiased | 6.9825 | 6.9846 | 0.0021 |
| 351 | 50 | HDR unbiased | 7.0021 | 7.0043 | 0.0022 |
| 352 | 50 | HDR unbiased | 6.9651 | 6.96 | -0.0051 |
| 353 | 50 | HDR unbiased | 7.0084 | 6.9989 | -0.0095 |
| 354 | 50 | HDR unbiased | 7.0657 | 7.0632 | -0.0025 |
| 355 | 50 | HDR unbiased | 7.0643 | 7.0657 | 0.0014 |
| 521 | 20 | HDR biased | 7.0057 | 6.9991 | -0.0066 |
| 522 | 20 | HDR biased | 7.0495 | 7.0485 | -0.001 |
| 523 | 20 | HDR biased | 6.9991 | 6.9963 | -0.0028 |
| 524 | 20 | HDR biased | 7.0555 | 7.0304 | -0.0251 |
| 525 | 20 | HDR biased | 7.0271 | 7.0552 | 0.0281 |
| 531 | 30 | HDR biased | 7.06 | 7.0522 | -0.0078 |
| 532 | 30 | HDR biased | 7.0072 | 7.0328 | 0.0256 |
| 533 | 30 | HDR biased | 7.0539 | 7.0002 | -0.0537 |
| 534 | 30 | HDR biased | 7.0826 | 7.0804 | -0.0022 |
| 535 | 30 | HDR biased | 7.0607 | 7.06 | -0.0007 |
| 551 | 50 | HDR biased | 7.0209 | 7.0189 | -0.002 |
| 552 | 50 | HDR biased | 7.0464 | 7.0421 | -0.0043 |
| 553 | 50 | HDR biased | 7.0224 | 7.0154 | -0.007 |
| 554 | 50 | HDR biased | 7.0084 | 7.0027 | -0.0057 |
| 555 | 50 | HDR biased | 7.1309 | 7.1287 | -0.0022 |

TID vs Post - Pre Exposure Delta

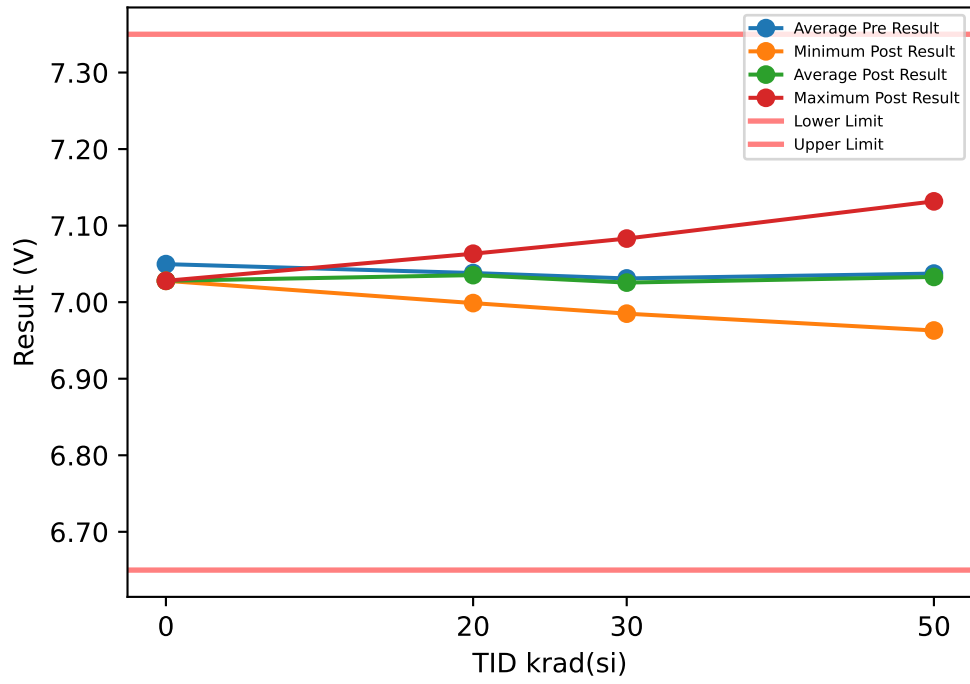


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0469 | 7.0469 | 7.0469 | | 7.0256 | 7.0256 | 7.0256 | | -0.0213 | -0.0213 | -0.0213 | |
| 20 | 6.9991 | 7.0344 | 7.0653 | 0.026105 | 6.9963 | 7.032 | 7.0606 | 0.026638 | -0.0251 | -0.00239 | 0.0281 | 0.012861 |
| 30 | 6.9825 | 7.0277 | 7.0826 | 0.034692 | 6.9781 | 7.0226 | 7.0804 | 0.033743 | -0.0537 | -0.00508 | 0.0256 | 0.01971 |
| 50 | 6.9651 | 7.0335 | 7.1309 | 0.045759 | 6.96 | 7.03 | 7.1287 | 0.046992 | -0.0095 | -0.00347 | 0.0022 | 0.0036166 |

Device Test: 61.0 V_BP7L(V_BP7L PWM 500kHz VIN_12V)

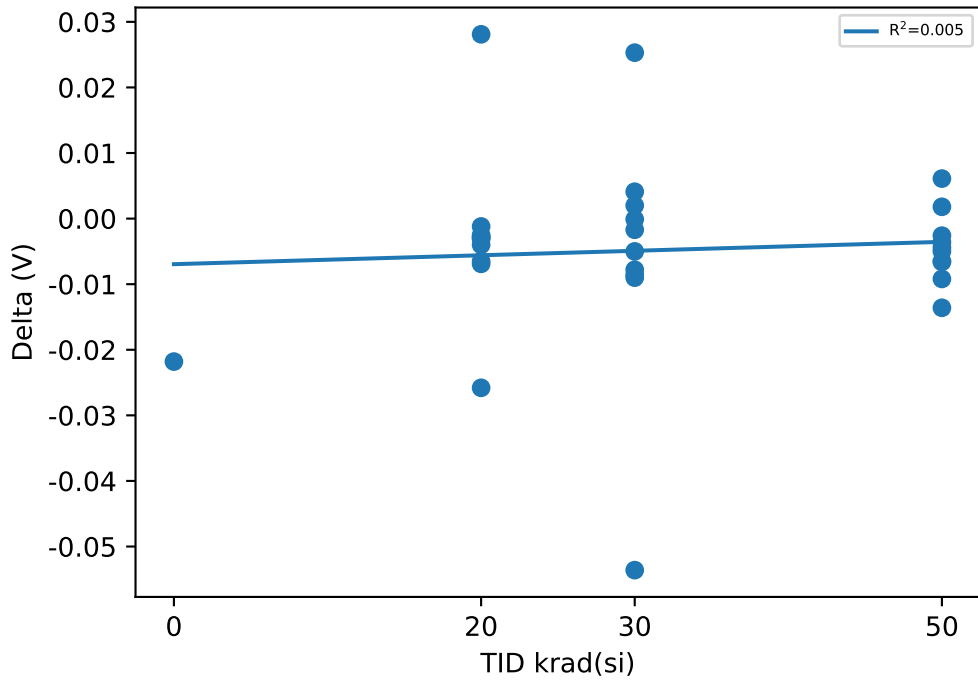
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0497 | 7.0279 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0673 | 7.0633 | -0.004 |
| 322 | 20 | HDR unbiased | 7.06 | 7.0575 | -0.0025 |
| 323 | 20 | HDR unbiased | 7.0117 | 7.0048 | -0.0069 |
| 324 | 20 | HDR unbiased | 7.0281 | 7.0252 | -0.0029 |
| 325 | 20 | HDR unbiased | 7.0632 | 7.0604 | -0.0028 |
| 331 | 30 | HDR unbiased | 7.0065 | 7.0015 | -0.005 |
| 332 | 30 | HDR unbiased | 6.994 | 6.985 | -0.009 |
| 333 | 30 | HDR unbiased | 7.0273 | 7.0195 | -0.0078 |
| 334 | 30 | HDR unbiased | 7.0202 | 7.0243 | 0.0041 |
| 335 | 30 | HDR unbiased | 6.9849 | 6.9869 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0054 | 7.0115 | 0.0061 |
| 352 | 50 | HDR unbiased | 6.9674 | 6.963 | -0.0044 |
| 353 | 50 | HDR unbiased | 7.0148 | 7.0012 | -0.0136 |
| 354 | 50 | HDR unbiased | 7.0689 | 7.0653 | -0.0036 |
| 355 | 50 | HDR unbiased | 7.0665 | 7.0683 | 0.0018 |
| 521 | 20 | HDR biased | 7.0084 | 7.0019 | -0.0065 |
| 522 | 20 | HDR biased | 7.0522 | 7.051 | -0.0012 |
| 523 | 20 | HDR biased | 7.0019 | 6.9988 | -0.0031 |
| 524 | 20 | HDR biased | 7.0585 | 7.0327 | -0.0258 |
| 525 | 20 | HDR biased | 7.0296 | 7.0577 | 0.0281 |
| 531 | 30 | HDR biased | 7.0629 | 7.0543 | -0.0086 |
| 532 | 30 | HDR biased | 7.0104 | 7.0357 | 0.0253 |
| 533 | 30 | HDR biased | 7.0564 | 7.0028 | -0.0536 |
| 534 | 30 | HDR biased | 7.0848 | 7.0831 | -0.0017 |
| 535 | 30 | HDR biased | 7.0628 | 7.0627 | -0.0001 |
| 551 | 50 | HDR biased | 7.0235 | 7.0209 | -0.0026 |
| 552 | 50 | HDR biased | 7.0498 | 7.0448 | -0.005 |
| 553 | 50 | HDR biased | 7.0249 | 7.0183 | -0.0066 |
| 554 | 50 | HDR biased | 7.0113 | 7.0048 | -0.0065 |
| 555 | 50 | HDR biased | 7.1409 | 7.1317 | -0.0092 |

TID vs Post - Pre Exposure Delta

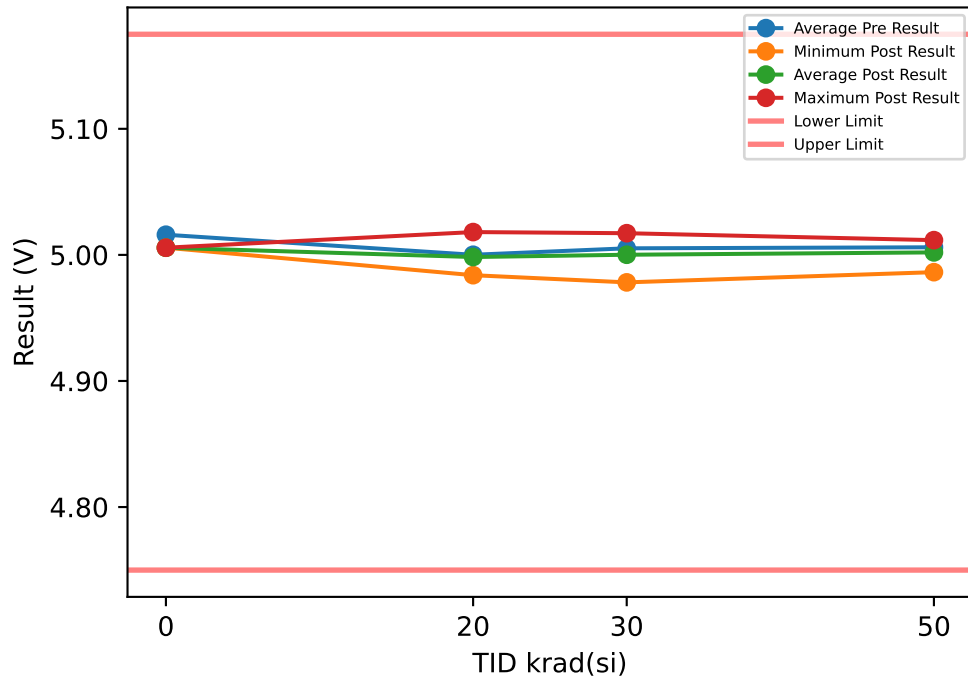


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0497 | 7.0497 | 7.0497 | | 7.0279 | 7.0279 | 7.0279 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 7.0019 | 7.0381 | 7.0673 | 0.025031 | 6.9988 | 7.0353 | 7.0633 | 0.026123 | -0.0258 | -0.00276 | 0.0281 | 0.012989 |
| 30 | 6.9849 | 7.031 | 7.0848 | 0.033694 | 6.985 | 7.0256 | 7.0831 | 0.033156 | -0.0536 | -0.00544 | 0.0253 | 0.019668 |
| 50 | 6.9674 | 7.0373 | 7.1409 | 0.047341 | 6.963 | 7.033 | 7.1317 | 0.046787 | -0.0136 | -0.00436 | 0.0061 | 0.0054756 |

Device Test: 61.1 V_BP5L(V_BP5L PWM 500kHz VIN_12V)

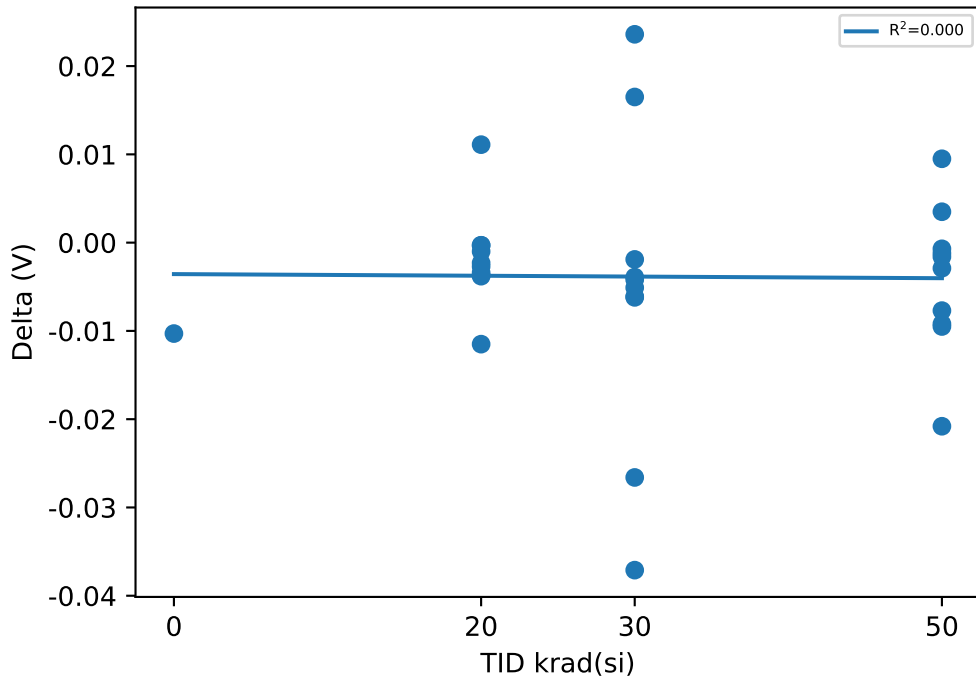
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.016 | 5.0057 | -0.0103 |
| 321 | 20 | HDR unbiased | 4.9893 | 4.989 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0158 | 5.0135 | -0.0023 |
| 323 | 20 | HDR unbiased | 4.9964 | 4.9961 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9943 | 4.9909 | -0.0034 |
| 325 | 20 | HDR unbiased | 5.0021 | 4.9984 | -0.0037 |
| 331 | 30 | HDR unbiased | 4.9989 | 4.9938 | -0.0051 |
| 332 | 30 | HDR unbiased | 5 | 4.9958 | -0.0042 |
| 333 | 30 | HDR unbiased | 5.0136 | 5.0074 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9965 | 4.9904 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.0179 | 5.016 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0104 | 4.9896 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9958 | 4.9863 | -0.0095 |
| 353 | 50 | HDR unbiased | 4.9934 | 5.0029 | 0.0095 |
| 354 | 50 | HDR unbiased | 5.0108 | 5.0096 | -0.0012 |
| 355 | 50 | HDR unbiased | 5.0178 | 5.0086 | -0.0092 |
| 521 | 20 | HDR biased | 5.0219 | 5.0181 | -0.0038 |
| 522 | 20 | HDR biased | 4.9927 | 4.99 | -0.0027 |
| 523 | 20 | HDR biased | 4.9849 | 4.9839 | -0.001 |
| 524 | 20 | HDR biased | 4.9963 | 5.0074 | 0.0111 |
| 525 | 20 | HDR biased | 5.0073 | 4.9958 | -0.0115 |
| 531 | 30 | HDR biased | 5.0048 | 4.9782 | -0.0266 |
| 532 | 30 | HDR biased | 5.0216 | 4.9845 | -0.0371 |
| 533 | 30 | HDR biased | 4.9926 | 5.0162 | 0.0236 |
| 534 | 30 | HDR biased | 5.0211 | 5.0172 | -0.0039 |
| 535 | 30 | HDR biased | 4.9852 | 5.0017 | 0.0165 |
| 551 | 50 | HDR biased | 5.0001 | 4.9994 | -0.0007 |
| 552 | 50 | HDR biased | 5.0029 | 5.0013 | -0.0016 |
| 553 | 50 | HDR biased | 5.0146 | 5.0117 | -0.0029 |
| 554 | 50 | HDR biased | 5.0151 | 5.0074 | -0.0077 |
| 555 | 50 | HDR biased | 4.9995 | 5.003 | 0.0035 |

TID vs Post - Pre Exposure Delta

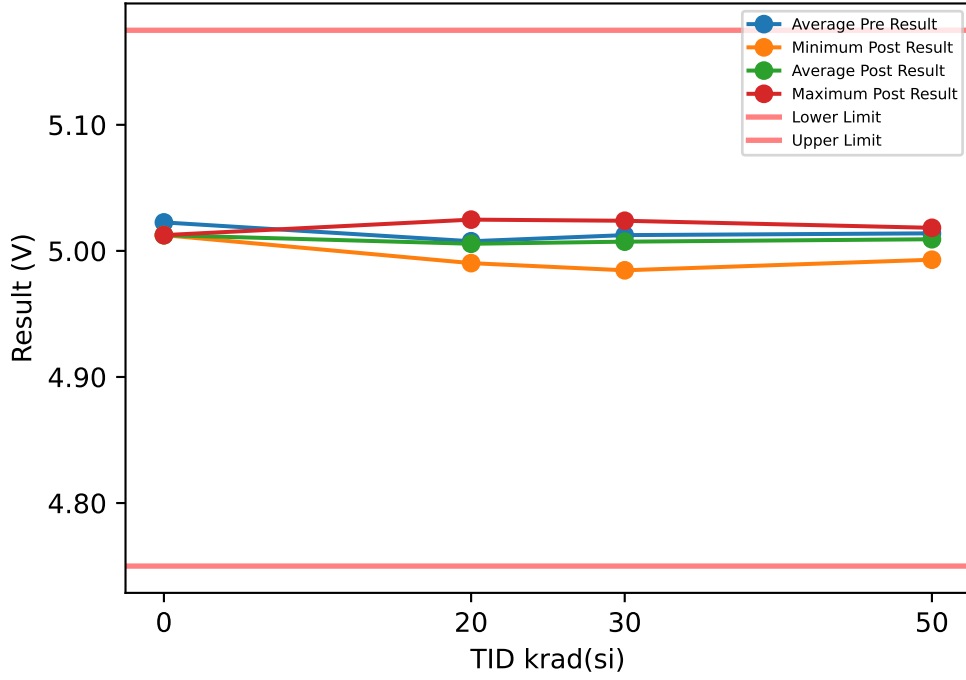


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.016 | 5.016 | 5.016 | | 5.0057 | 5.0057 | 5.0057 | | -0.0103 | -0.0103 | -0.0103 | |
| 20 | 4.9849 | 5.0001 | 5.0219 | 0.011746 | 4.9839 | 4.9983 | 5.0181 | 0.011227 | -0.0115 | -0.00179 | 0.0111 | 0.0055465 |
| 30 | 4.9852 | 5.0052 | 5.0216 | 0.012715 | 4.9782 | 5.0001 | 5.0172 | 0.013887 | -0.0371 | -0.0051 | 0.0236 | 0.017611 |
| 50 | 4.9934 | 5.006 | 5.0178 | 0.0087424 | 4.9863 | 5.002 | 5.0117 | 0.0083923 | -0.0208 | -0.00406 | 0.0095 | 0.0082824 |

Device Test: 61.10 V_BP5L(_V_BP5L PWM 5MHz VIN_12V)

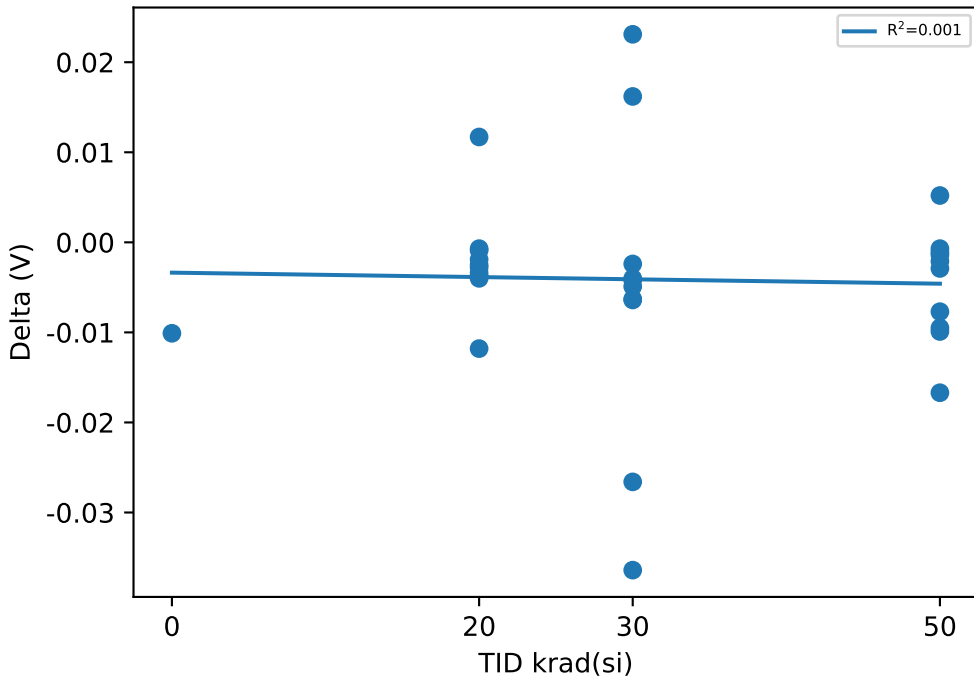
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0226 | 5.0125 | -0.0101 |
| 321 | 20 | HDR unbiased | 4.9965 | 4.9958 | -0.0007 |
| 322 | 20 | HDR unbiased | 5.023 | 5.0205 | -0.0025 |
| 323 | 20 | HDR unbiased | 5.007 | 5.003 | -0.004 |
| 324 | 20 | HDR unbiased | 5.0055 | 5.0036 | -0.0019 |
| 325 | 20 | HDR unbiased | 5.0093 | 5.0059 | -0.0034 |
| 331 | 30 | HDR unbiased | 5.0054 | 5.0005 | -0.0049 |
| 332 | 30 | HDR unbiased | 5.0109 | 5.0067 | -0.0042 |
| 333 | 30 | HDR unbiased | 5.0207 | 5.0144 | -0.0063 |
| 334 | 30 | HDR unbiased | 5.0036 | 4.9972 | -0.0064 |
| 335 | 30 | HDR unbiased | 5.026 | 5.0236 | -0.0024 |
| 351 | 50 | HDR unbiased | 5.017 | 5.0003 | -0.0167 |
| 352 | 50 | HDR unbiased | 5.0029 | 4.993 | -0.0099 |
| 353 | 50 | HDR unbiased | 5.0041 | 5.0093 | 0.0052 |
| 354 | 50 | HDR unbiased | 5.0181 | 5.0174 | -0.0007 |
| 355 | 50 | HDR unbiased | 5.0256 | 5.0161 | -0.0095 |
| 521 | 20 | HDR biased | 5.0286 | 5.0248 | -0.0038 |
| 522 | 20 | HDR biased | 4.9995 | 4.9967 | -0.0028 |
| 523 | 20 | HDR biased | 4.9912 | 4.9903 | -0.0009 |
| 524 | 20 | HDR biased | 5.0021 | 5.0138 | 0.0117 |
| 525 | 20 | HDR biased | 5.0139 | 5.0021 | -0.0118 |
| 531 | 30 | HDR biased | 5.0112 | 4.9846 | -0.0266 |
| 532 | 30 | HDR biased | 5.028 | 4.9916 | -0.0364 |
| 533 | 30 | HDR biased | 4.9994 | 5.0225 | 0.0231 |
| 534 | 30 | HDR biased | 5.0279 | 5.0239 | -0.004 |
| 535 | 30 | HDR biased | 4.992 | 5.0082 | 0.0162 |
| 551 | 50 | HDR biased | 5.0067 | 5.0056 | -0.0011 |
| 552 | 50 | HDR biased | 5.0093 | 5.0079 | -0.0014 |
| 553 | 50 | HDR biased | 5.0212 | 5.0183 | -0.0029 |
| 554 | 50 | HDR biased | 5.0217 | 5.014 | -0.0077 |
| 555 | 50 | HDR biased | 5.0126 | 5.0105 | -0.0021 |

TID vs Post - Pre Exposure Delta

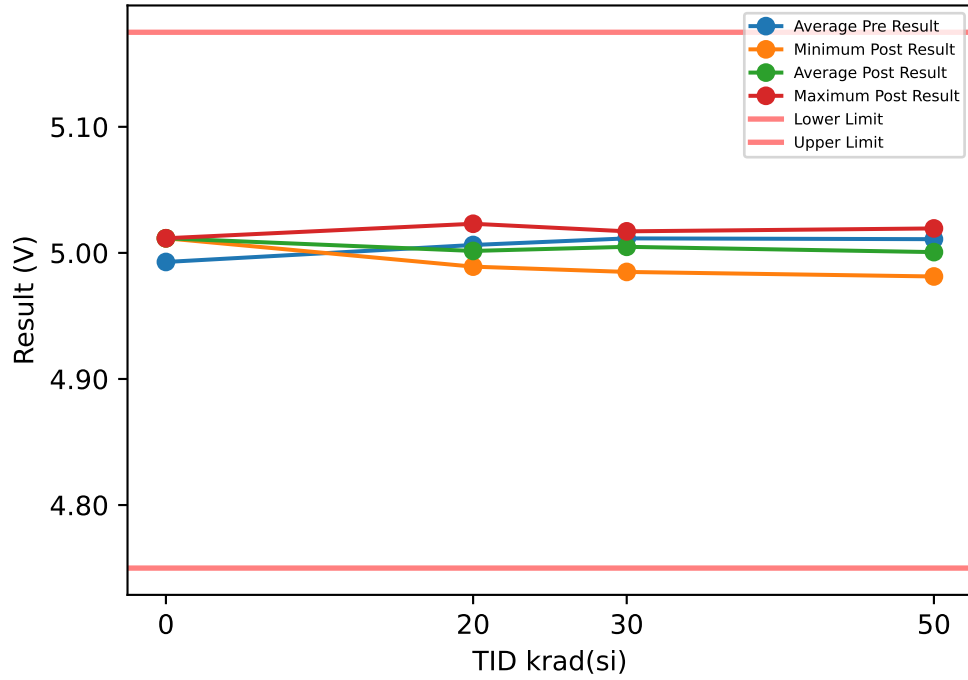


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0226 | 5.0226 | 5.0226 | | 5.0125 | 5.0125 | 5.0125 | | -0.0101 | -0.0101 | -0.0101 | |
| 20 | 4.9912 | 5.0077 | 5.0286 | 0.011612 | 4.9903 | 5.0057 | 5.0248 | 0.011007 | -0.0118 | -0.00201 | 0.0117 | 0.0057419 |
| 30 | 4.992 | 5.0125 | 5.028 | 0.012704 | 4.9846 | 5.0073 | 5.0239 | 0.01388 | -0.0364 | -0.00519 | 0.0231 | 0.017331 |
| 50 | 5.0029 | 5.0139 | 5.0256 | 0.0079582 | 4.993 | 5.0092 | 5.0183 | 0.0080186 | -0.0167 | -0.00468 | 0.0052 | 0.0062444 |

Device Test: 61.11 V_BP5H(_V_BP5H PWM 5MHz VIN_12V)

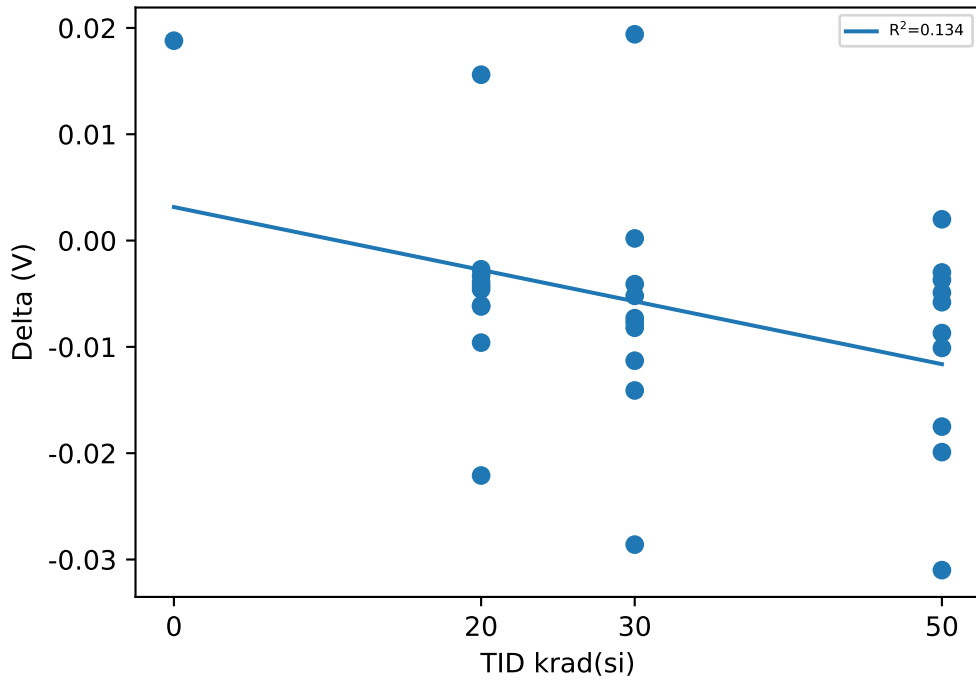
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9928 | 5.0116 | 0.0188 |
| 321 | 20 | HDR unbiased | 4.9976 | 4.9915 | -0.0061 |
| 322 | 20 | HDR unbiased | 5.0277 | 5.0231 | -0.0046 |
| 323 | 20 | HDR unbiased | 5.0147 | 5.0051 | -0.0096 |
| 324 | 20 | HDR unbiased | 4.9998 | 4.9955 | -0.0043 |
| 325 | 20 | HDR unbiased | 4.9993 | 4.9966 | -0.0027 |
| 331 | 30 | HDR unbiased | 4.9958 | 4.9876 | -0.0082 |
| 332 | 30 | HDR unbiased | 5.0169 | 5.0171 | 0.0002 |
| 333 | 30 | HDR unbiased | 5.0261 | 5.0148 | -0.0113 |
| 334 | 30 | HDR unbiased | 4.9976 | 4.9924 | -0.0052 |
| 335 | 30 | HDR unbiased | 4.9926 | 4.9849 | -0.0077 |
| 351 | 50 | HDR unbiased | 5.0012 | 4.9813 | -0.0199 |
| 352 | 50 | HDR unbiased | 5.0147 | 4.9972 | -0.0175 |
| 353 | 50 | HDR unbiased | 4.9953 | 4.9866 | -0.0087 |
| 354 | 50 | HDR unbiased | 5.0055 | 5.0075 | 0.002 |
| 355 | 50 | HDR unbiased | 5.024 | 4.993 | -0.031 |
| 521 | 20 | HDR biased | 4.9969 | 4.9907 | -0.0062 |
| 522 | 20 | HDR biased | 5.0183 | 5.0144 | -0.0039 |
| 523 | 20 | HDR biased | 5.003 | 4.9997 | -0.0033 |
| 524 | 20 | HDR biased | 4.9942 | 5.0098 | 0.0156 |
| 525 | 20 | HDR biased | 5.0112 | 4.9891 | -0.0221 |
| 531 | 30 | HDR biased | 5.0209 | 5.0136 | -0.0073 |
| 532 | 30 | HDR biased | 5.0199 | 4.9913 | -0.0286 |
| 533 | 30 | HDR biased | 4.996 | 5.0154 | 0.0194 |
| 534 | 30 | HDR biased | 5.0286 | 5.0145 | -0.0141 |
| 535 | 30 | HDR biased | 5.0207 | 5.0166 | -0.0041 |
| 551 | 50 | HDR biased | 4.9994 | 4.9893 | -0.0101 |
| 552 | 50 | HDR biased | 5.0157 | 5.0108 | -0.0049 |
| 553 | 50 | HDR biased | 5.0154 | 5.0096 | -0.0058 |
| 554 | 50 | HDR biased | 5.0145 | 5.0115 | -0.003 |
| 555 | 50 | HDR biased | 5.0231 | 5.0194 | -0.0037 |

TID vs Post - Pre Exposure Delta

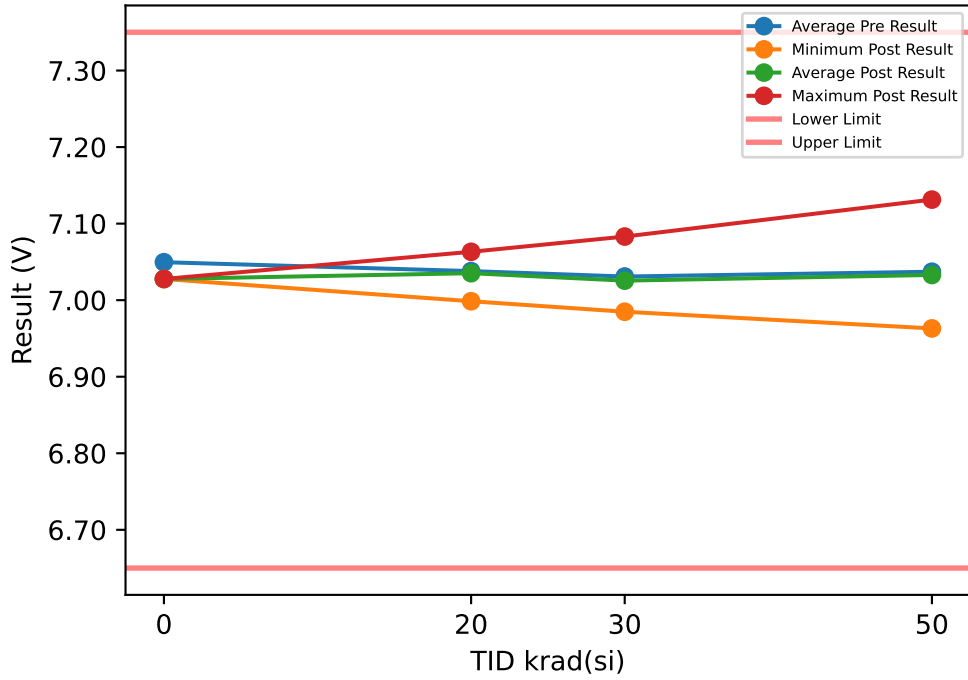


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9928 | 4.9928 | 4.9928 | | 5.0116 | 5.0116 | 5.0116 | | 0.0188 | 0.0188 | 0.0188 | |
| 20 | 4.9942 | 5.0063 | 5.0277 | 0.011101 | 4.9891 | 5.0015 | 5.0231 | 0.011296 | -0.0221 | -0.00472 | 0.0156 | 0.0091277 |
| 30 | 4.9926 | 5.0115 | 5.0286 | 0.014203 | 4.9849 | 5.0048 | 5.0171 | 0.013753 | -0.0286 | -0.00669 | 0.0194 | 0.012004 |
| 50 | 4.9953 | 5.0109 | 5.024 | 0.0099443 | 4.9813 | 5.0006 | 5.0194 | 0.012782 | -0.031 | -0.01026 | 0.002 | 0.0098467 |

Device Test: 61.12 V_BP7L(_V_BP7L IIM 500kHz VIN_12V)

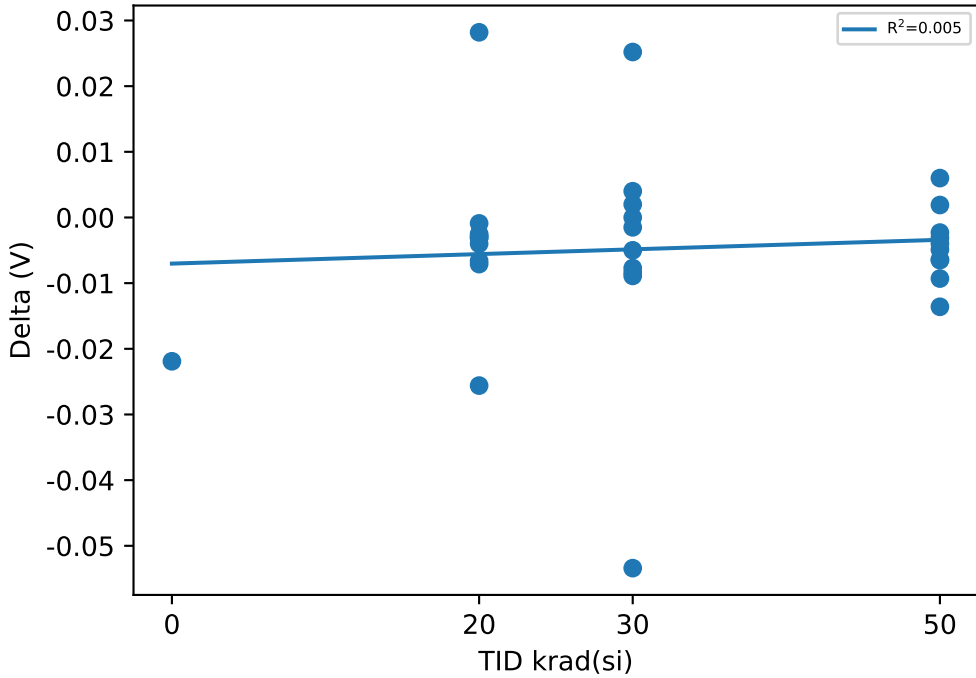
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0496 | 7.0277 | -0.0219 |
| 321 | 20 | HDR unbiased | 7.0672 | 7.0632 | -0.004 |
| 322 | 20 | HDR unbiased | 7.0598 | 7.0573 | -0.0025 |
| 323 | 20 | HDR unbiased | 7.0117 | 7.0046 | -0.0071 |
| 324 | 20 | HDR unbiased | 7.028 | 7.0249 | -0.0031 |
| 325 | 20 | HDR unbiased | 7.0632 | 7.0604 | -0.0028 |
| 331 | 30 | HDR unbiased | 7.0063 | 7.0013 | -0.005 |
| 332 | 30 | HDR unbiased | 6.9938 | 6.9849 | -0.0089 |
| 333 | 30 | HDR unbiased | 7.0271 | 7.0194 | -0.0077 |
| 334 | 30 | HDR unbiased | 7.0204 | 7.0244 | 0.004 |
| 335 | 30 | HDR unbiased | 6.9848 | 6.9868 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0052 | 7.0112 | 0.006 |
| 352 | 50 | HDR unbiased | 6.9671 | 6.9631 | -0.004 |
| 353 | 50 | HDR unbiased | 7.0147 | 7.0011 | -0.0136 |
| 354 | 50 | HDR unbiased | 7.0686 | 7.0655 | -0.0031 |
| 355 | 50 | HDR unbiased | 7.0663 | 7.0682 | 0.0019 |
| 521 | 20 | HDR biased | 7.0085 | 7.0019 | -0.0066 |
| 522 | 20 | HDR biased | 7.052 | 7.0511 | -0.0009 |
| 523 | 20 | HDR biased | 7.0017 | 6.9986 | -0.0031 |
| 524 | 20 | HDR biased | 7.0583 | 7.0327 | -0.0256 |
| 525 | 20 | HDR biased | 7.0294 | 7.0576 | 0.0282 |
| 531 | 30 | HDR biased | 7.0628 | 7.0544 | -0.0084 |
| 532 | 30 | HDR biased | 7.0103 | 7.0355 | 0.0252 |
| 533 | 30 | HDR biased | 7.0561 | 7.0027 | -0.0534 |
| 534 | 30 | HDR biased | 7.0846 | 7.0831 | -0.0015 |
| 535 | 30 | HDR biased | 7.0627 | 7.0627 | 0 |
| 551 | 50 | HDR biased | 7.0232 | 7.0209 | -0.0023 |
| 552 | 50 | HDR biased | 7.0497 | 7.0448 | -0.0049 |
| 553 | 50 | HDR biased | 7.0247 | 7.0182 | -0.0065 |
| 554 | 50 | HDR biased | 7.0112 | 7.0048 | -0.0064 |
| 555 | 50 | HDR biased | 7.1407 | 7.1314 | -0.0093 |

TID vs Post - Pre Exposure Delta

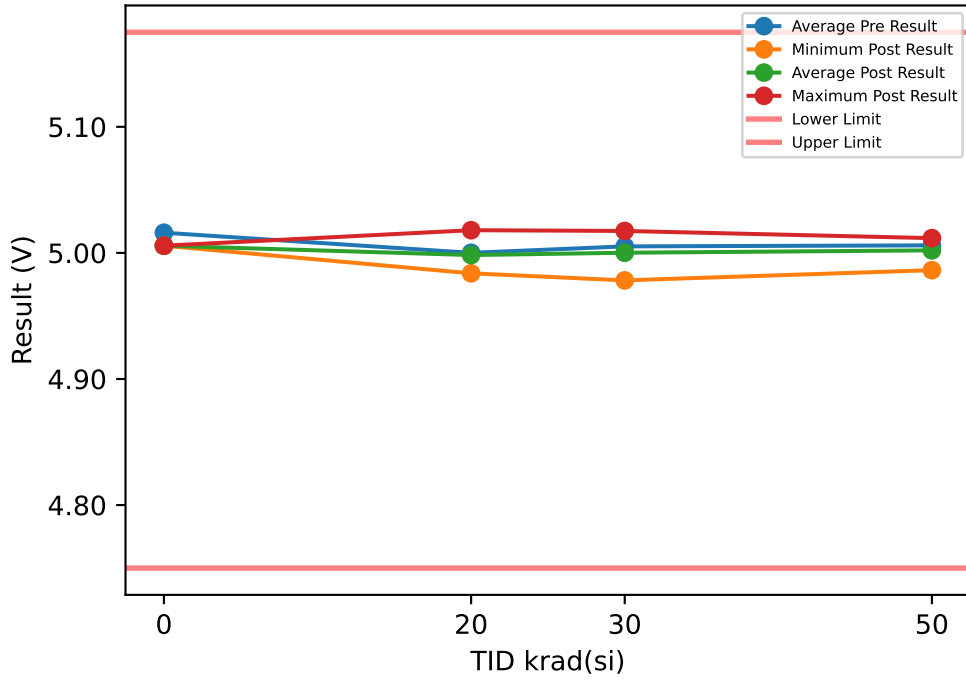


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0496 | 7.0496 | 7.0496 | | 7.0277 | 7.0277 | 7.0277 | | -0.0219 | -0.0219 | -0.0219 | |
| 20 | 7.0017 | 7.038 | 7.0672 | 0.024999 | 6.9986 | 7.0352 | 7.0632 | 0.02616 | -0.0256 | -0.00275 | 0.0282 | 0.012992 |
| 30 | 6.9848 | 7.0309 | 7.0846 | 0.033671 | 6.9849 | 7.0255 | 7.0831 | 0.033211 | -0.0534 | -0.00537 | 0.0252 | 0.019592 |
| 50 | 6.9671 | 7.0371 | 7.1407 | 0.047345 | 6.9631 | 7.0329 | 7.1314 | 0.046734 | -0.0136 | -0.00422 | 0.006 | 0.0054883 |

Device Test: 61.13 V_BP5L(_V_BP5L IIM 500kHz VIN_12V)

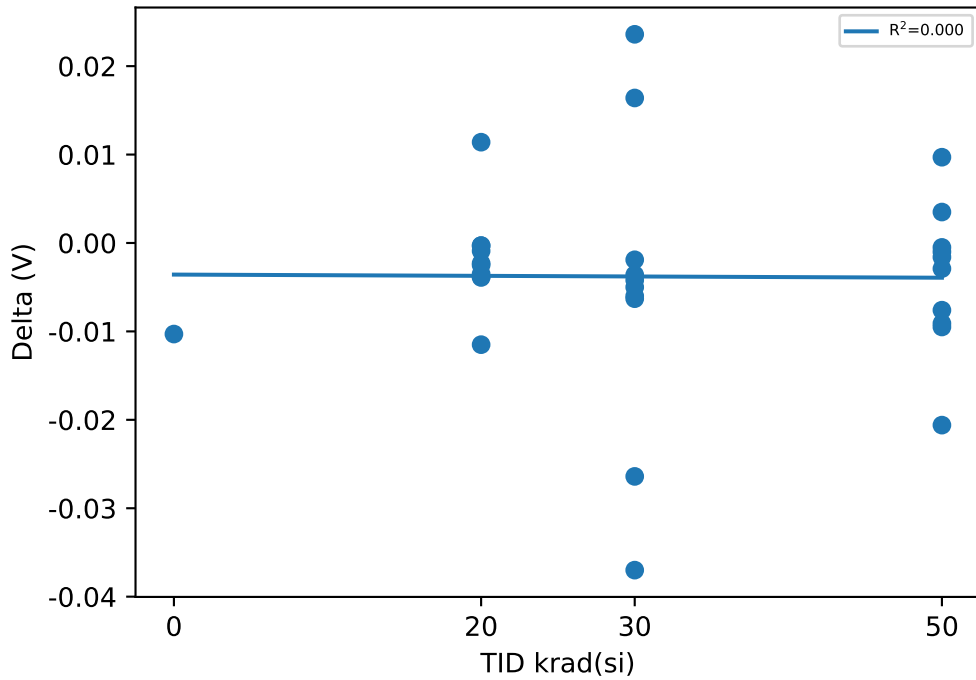
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.016 | 5.0057 | -0.0103 |
| 321 | 20 | HDR unbiased | 4.9892 | 4.9889 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0158 | 5.0135 | -0.0023 |
| 323 | 20 | HDR unbiased | 4.9964 | 4.9961 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9943 | 4.9908 | -0.0035 |
| 325 | 20 | HDR unbiased | 5.0022 | 4.9984 | -0.0038 |
| 331 | 30 | HDR unbiased | 4.9989 | 4.9939 | -0.005 |
| 332 | 30 | HDR unbiased | 5 | 4.9958 | -0.0042 |
| 333 | 30 | HDR unbiased | 5.0136 | 5.0073 | -0.0063 |
| 334 | 30 | HDR unbiased | 4.9964 | 4.9904 | -0.006 |
| 335 | 30 | HDR unbiased | 5.018 | 5.0161 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0103 | 4.9897 | -0.0206 |
| 352 | 50 | HDR unbiased | 4.9958 | 4.9863 | -0.0095 |
| 353 | 50 | HDR unbiased | 4.9934 | 5.0031 | 0.0097 |
| 354 | 50 | HDR unbiased | 5.0106 | 5.0096 | -0.001 |
| 355 | 50 | HDR unbiased | 5.0177 | 5.0086 | -0.0091 |
| 521 | 20 | HDR biased | 5.0219 | 5.018 | -0.0039 |
| 522 | 20 | HDR biased | 4.9926 | 4.9901 | -0.0025 |
| 523 | 20 | HDR biased | 4.9847 | 4.9838 | -0.0009 |
| 524 | 20 | HDR biased | 4.9961 | 5.0075 | 0.0114 |
| 525 | 20 | HDR biased | 5.0073 | 4.9958 | -0.0115 |
| 531 | 30 | HDR biased | 5.0046 | 4.9782 | -0.0264 |
| 532 | 30 | HDR biased | 5.0215 | 4.9845 | -0.037 |
| 533 | 30 | HDR biased | 4.9925 | 5.0161 | 0.0236 |
| 534 | 30 | HDR biased | 5.021 | 5.0174 | -0.0036 |
| 535 | 30 | HDR biased | 4.9852 | 5.0016 | 0.0164 |
| 551 | 50 | HDR biased | 4.9999 | 4.9994 | -0.0005 |
| 552 | 50 | HDR biased | 5.0029 | 5.0013 | -0.0016 |
| 553 | 50 | HDR biased | 5.0146 | 5.0117 | -0.0029 |
| 554 | 50 | HDR biased | 5.015 | 5.0074 | -0.0076 |
| 555 | 50 | HDR biased | 4.9995 | 5.003 | 0.0035 |

TID vs Post - Pre Exposure Delta

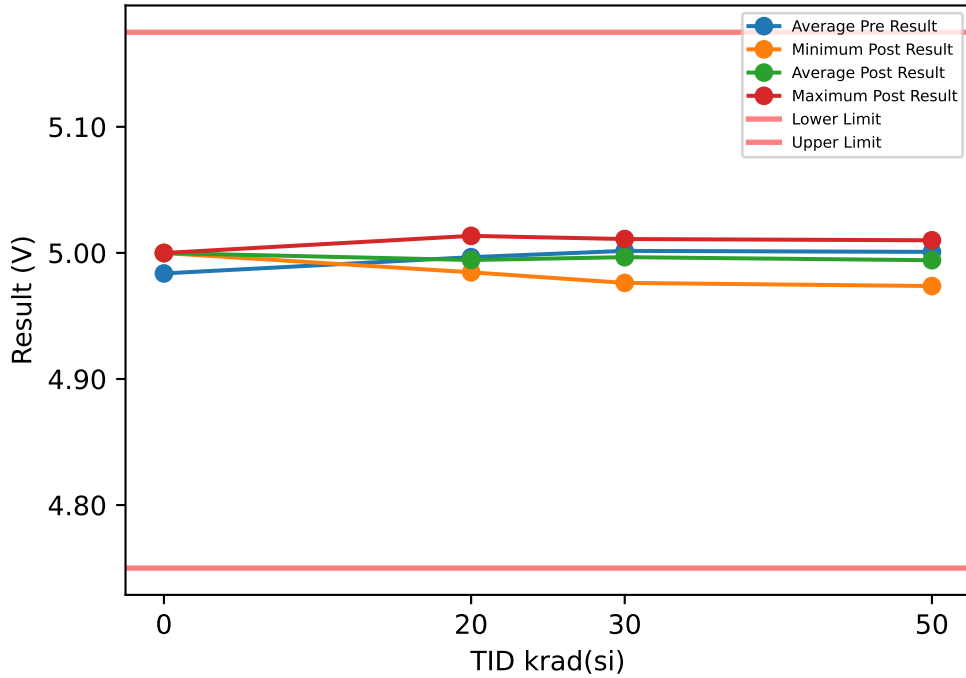


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.016 | 5.016 | 5.016 | | 5.0057 | 5.0057 | 5.0057 | | -0.0103 | -0.0103 | -0.0103 | |
| 20 | 4.9847 | 5 | 5.0219 | 0.011802 | 4.9838 | 4.9983 | 5.018 | 0.01124 | -0.0115 | -0.00176 | 0.0114 | 0.0056339 |
| 30 | 4.9852 | 5.0052 | 5.0215 | 0.012717 | 4.9782 | 5.0001 | 5.0174 | 0.013902 | -0.037 | -0.00504 | 0.0236 | 0.017552 |
| 50 | 4.9934 | 5.006 | 5.0177 | 0.0087137 | 4.9863 | 5.002 | 5.0117 | 0.0083786 | -0.0206 | -0.00396 | 0.0097 | 0.0082793 |

Device Test: 61.14 V_BP5H(_V_BP5H IIM 500kHz VIN_12V)

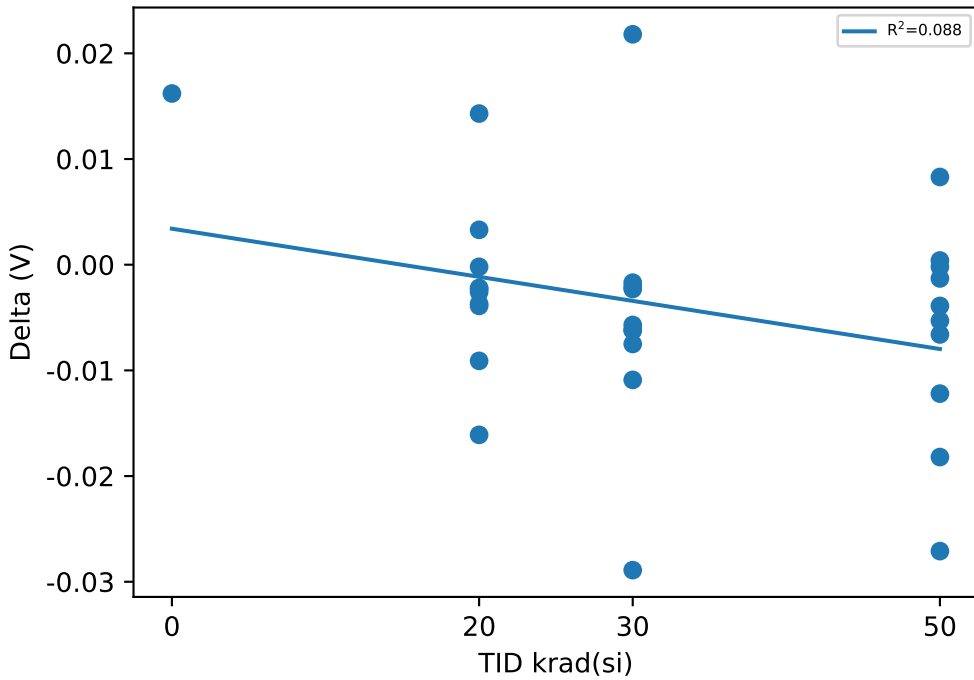
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9837 | 4.9999 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9869 | 4.9867 | -0.0002 |
| 322 | 20 | HDR unbiased | 5.0172 | 5.0135 | -0.0037 |
| 323 | 20 | HDR unbiased | 5.0049 | 4.9958 | -0.0091 |
| 324 | 20 | HDR unbiased | 4.9894 | 4.9871 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9897 | 4.993 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9862 | 4.9805 | -0.0057 |
| 332 | 30 | HDR unbiased | 5.0071 | 5.0048 | -0.0023 |
| 333 | 30 | HDR unbiased | 5.0172 | 5.011 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.986 | 4.9843 | -0.0017 |
| 335 | 30 | HDR unbiased | 4.9837 | 4.9762 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9919 | 4.9737 | -0.0182 |
| 352 | 50 | HDR unbiased | 5.0021 | 4.9899 | -0.0122 |
| 353 | 50 | HDR unbiased | 4.9842 | 4.984 | -0.0002 |
| 354 | 50 | HDR unbiased | 4.9969 | 5.0052 | 0.0083 |
| 355 | 50 | HDR unbiased | 5.0139 | 4.9868 | -0.0271 |
| 521 | 20 | HDR biased | 4.9885 | 4.9846 | -0.0039 |
| 522 | 20 | HDR biased | 5.0059 | 5.0037 | -0.0022 |
| 523 | 20 | HDR biased | 4.9928 | 4.9902 | -0.0026 |
| 524 | 20 | HDR biased | 4.9891 | 5.0034 | 0.0143 |
| 525 | 20 | HDR biased | 5.0017 | 4.9856 | -0.0161 |
| 531 | 30 | HDR biased | 5.0123 | 5.0061 | -0.0062 |
| 532 | 30 | HDR biased | 5.0105 | 4.9816 | -0.0289 |
| 533 | 30 | HDR biased | 4.9852 | 5.007 | 0.0218 |
| 534 | 30 | HDR biased | 5.0175 | 5.0066 | -0.0109 |
| 535 | 30 | HDR biased | 5.0102 | 5.0081 | -0.0021 |
| 551 | 50 | HDR biased | 4.9889 | 4.9836 | -0.0053 |
| 552 | 50 | HDR biased | 5.006 | 4.9994 | -0.0066 |
| 553 | 50 | HDR biased | 5.0044 | 5.0031 | -0.0013 |
| 554 | 50 | HDR biased | 5.0058 | 5.0062 | 0.0004 |
| 555 | 50 | HDR biased | 5.0139 | 5.01 | -0.0039 |

TID vs Post - Pre Exposure Delta

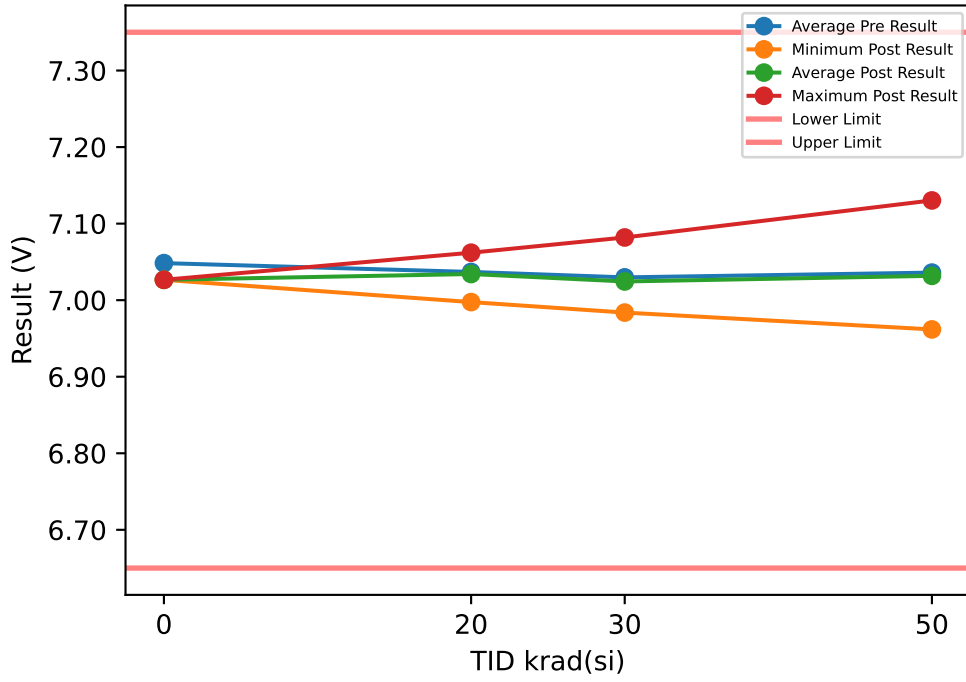


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9837 | 4.9837 | 4.9837 | | 4.9999 | 4.9999 | 4.9999 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9869 | 4.9966 | 5.0172 | 0.010196 | 4.9846 | 4.9944 | 5.0135 | 0.0096604 | -0.0161 | -0.00225 | 0.0143 | 0.0078359 |
| 30 | 4.9837 | 5.0016 | 5.0175 | 0.014391 | 4.9762 | 4.9966 | 5.011 | 0.013972 | -0.0289 | -0.00497 | 0.0218 | 0.012295 |
| 50 | 4.9842 | 5.0008 | 5.0139 | 0.010119 | 4.9737 | 4.9942 | 5.01 | 0.01216 | -0.0271 | -0.00661 | 0.0083 | 0.010194 |

Device Test: 61.15 V_BP7L(_V_BP7L IIM 1MHz VIN_12V)

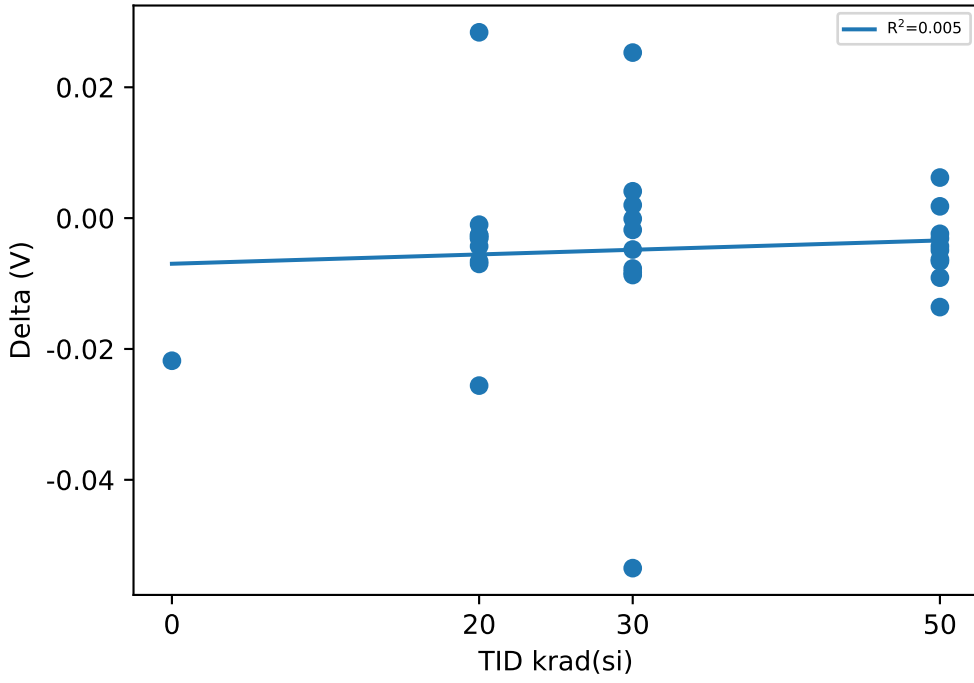
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0484 | 7.0266 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0663 | 7.062 | -0.0043 |
| 322 | 20 | HDR unbiased | 7.0588 | 7.0562 | -0.0026 |
| 323 | 20 | HDR unbiased | 7.0104 | 7.0034 | -0.007 |
| 324 | 20 | HDR unbiased | 7.027 | 7.024 | -0.003 |
| 325 | 20 | HDR unbiased | 7.062 | 7.0594 | -0.0026 |
| 331 | 30 | HDR unbiased | 7.0051 | 7.0003 | -0.0048 |
| 332 | 30 | HDR unbiased | 6.9925 | 6.9838 | -0.0087 |
| 333 | 30 | HDR unbiased | 7.026 | 7.0183 | -0.0077 |
| 334 | 30 | HDR unbiased | 7.0193 | 7.0234 | 0.0041 |
| 335 | 30 | HDR unbiased | 6.9838 | 6.9858 | 0.002 |
| 351 | 50 | HDR unbiased | 7.004 | 7.0102 | 0.0062 |
| 352 | 50 | HDR unbiased | 6.9661 | 6.9618 | -0.0043 |
| 353 | 50 | HDR unbiased | 7.0136 | 7 | -0.0136 |
| 354 | 50 | HDR unbiased | 7.0675 | 7.0644 | -0.0031 |
| 355 | 50 | HDR unbiased | 7.0653 | 7.0671 | 0.0018 |
| 521 | 20 | HDR biased | 7.0074 | 7.0008 | -0.0066 |
| 522 | 20 | HDR biased | 7.0509 | 7.0499 | -0.001 |
| 523 | 20 | HDR biased | 7.0006 | 6.9975 | -0.0031 |
| 524 | 20 | HDR biased | 7.0572 | 7.0316 | -0.0256 |
| 525 | 20 | HDR biased | 7.0283 | 7.0567 | 0.0284 |
| 531 | 30 | HDR biased | 7.0616 | 7.0533 | -0.0083 |
| 532 | 30 | HDR biased | 7.0092 | 7.0345 | 0.0253 |
| 533 | 30 | HDR biased | 7.055 | 7.0015 | -0.0535 |
| 534 | 30 | HDR biased | 7.0837 | 7.0819 | -0.0018 |
| 535 | 30 | HDR biased | 7.0617 | 7.0616 | -0.0001 |
| 551 | 50 | HDR biased | 7.0221 | 7.0197 | -0.0024 |
| 552 | 50 | HDR biased | 7.0485 | 7.0436 | -0.0049 |
| 553 | 50 | HDR biased | 7.0236 | 7.017 | -0.0066 |
| 554 | 50 | HDR biased | 7.01 | 7.0037 | -0.0063 |
| 555 | 50 | HDR biased | 7.1394 | 7.1303 | -0.0091 |

TID vs Post - Pre Exposure Delta

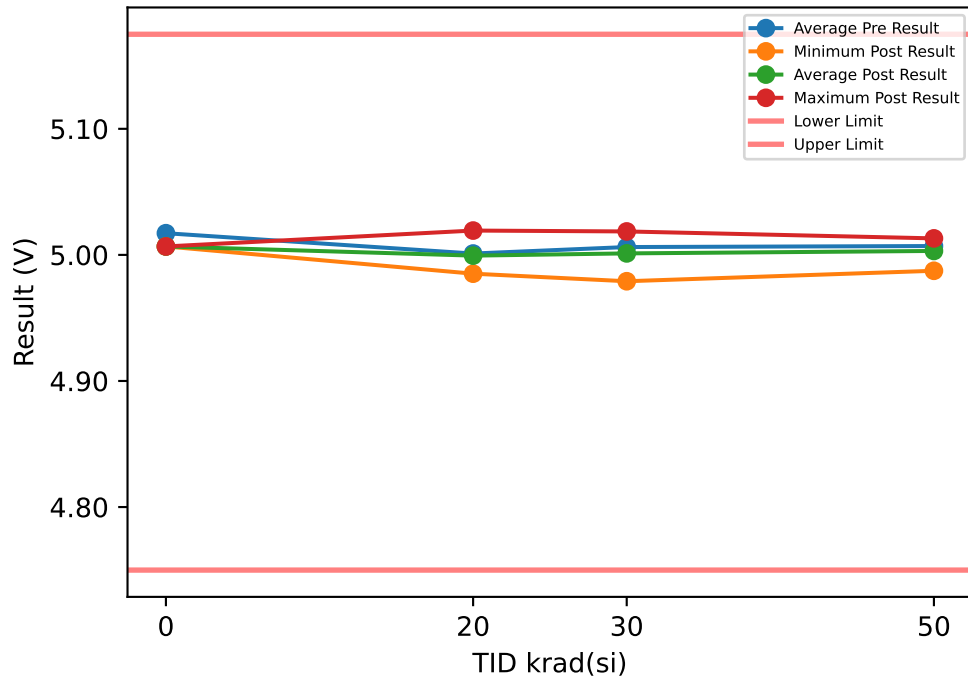


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0484 | 7.0484 | 7.0484 | | 7.0266 | 7.0266 | 7.0266 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 7.0006 | 7.0369 | 7.0663 | 0.025043 | 6.9975 | 7.0341 | 7.062 | 0.026176 | -0.0256 | -0.00274 | 0.0284 | 0.013043 |
| 30 | 6.9838 | 7.0298 | 7.0837 | 0.033724 | 6.9838 | 7.0244 | 7.0819 | 0.033181 | -0.0535 | -0.00535 | 0.0253 | 0.019627 |
| 50 | 6.9661 | 7.036 | 7.1394 | 0.047297 | 6.9618 | 7.0318 | 7.1303 | 0.046766 | -0.0136 | -0.00423 | 0.0062 | 0.0054938 |

Device Test: 61.16 V_BP5L(_V_BP5L IIM 1MHz VIN_12V)

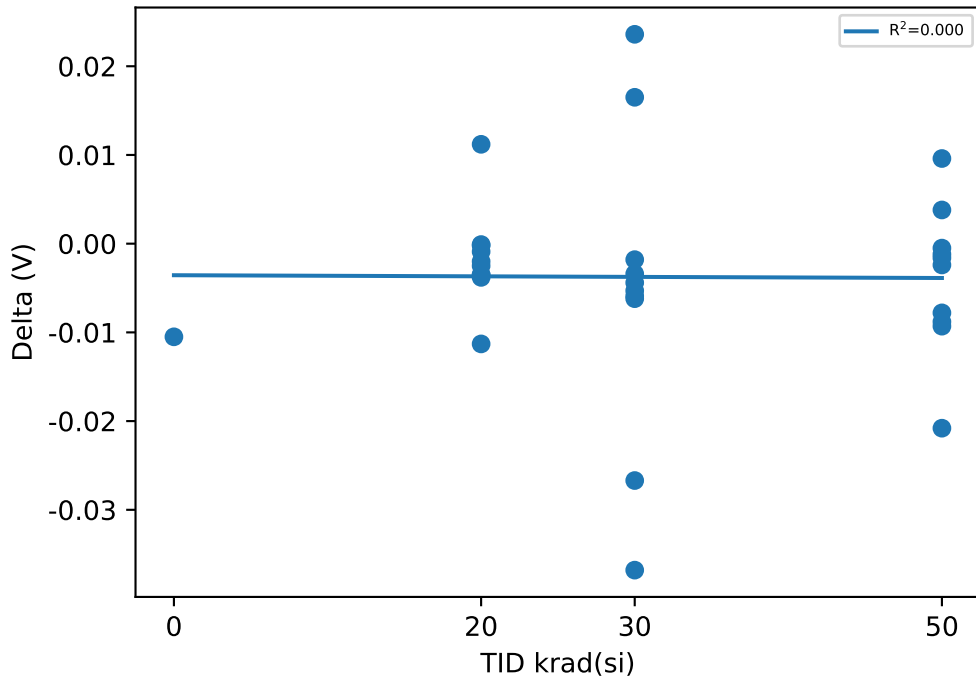
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0172 | 5.0067 | -0.0105 |
| 321 | 20 | HDR unbiased | 4.9902 | 4.9901 | -0.0001 |
| 322 | 20 | HDR unbiased | 5.0167 | 5.0147 | -0.002 |
| 323 | 20 | HDR unbiased | 4.9975 | 4.9973 | -0.0002 |
| 324 | 20 | HDR unbiased | 4.9953 | 4.9918 | -0.0035 |
| 325 | 20 | HDR unbiased | 5.0033 | 4.9995 | -0.0038 |
| 331 | 30 | HDR unbiased | 5 | 4.9947 | -0.0053 |
| 332 | 30 | HDR unbiased | 5.0012 | 4.9968 | -0.0044 |
| 333 | 30 | HDR unbiased | 5.0149 | 5.0087 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9972 | 4.9913 | -0.0059 |
| 335 | 30 | HDR unbiased | 5.019 | 5.0172 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0115 | 4.9907 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9967 | 4.9874 | -0.0093 |
| 353 | 50 | HDR unbiased | 4.9943 | 5.0039 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0119 | 5.0107 | -0.0012 |
| 355 | 50 | HDR unbiased | 5.0188 | 5.01 | -0.0088 |
| 521 | 20 | HDR biased | 5.0228 | 5.0193 | -0.0035 |
| 522 | 20 | HDR biased | 4.9935 | 4.991 | -0.0025 |
| 523 | 20 | HDR biased | 4.986 | 4.9851 | -0.0009 |
| 524 | 20 | HDR biased | 4.9972 | 5.0084 | 0.0112 |
| 525 | 20 | HDR biased | 5.0083 | 4.997 | -0.0113 |
| 531 | 30 | HDR biased | 5.0058 | 4.9791 | -0.0267 |
| 532 | 30 | HDR biased | 5.0226 | 4.9858 | -0.0368 |
| 533 | 30 | HDR biased | 4.9934 | 5.017 | 0.0236 |
| 534 | 30 | HDR biased | 5.022 | 5.0186 | -0.0034 |
| 535 | 30 | HDR biased | 4.9862 | 5.0027 | 0.0165 |
| 551 | 50 | HDR biased | 5.0009 | 5.0004 | -0.0005 |
| 552 | 50 | HDR biased | 5.0039 | 5.0023 | -0.0016 |
| 553 | 50 | HDR biased | 5.0155 | 5.0131 | -0.0024 |
| 554 | 50 | HDR biased | 5.0162 | 5.0084 | -0.0078 |
| 555 | 50 | HDR biased | 5.0006 | 5.0044 | 0.0038 |

TID vs Post - Pre Exposure Delta

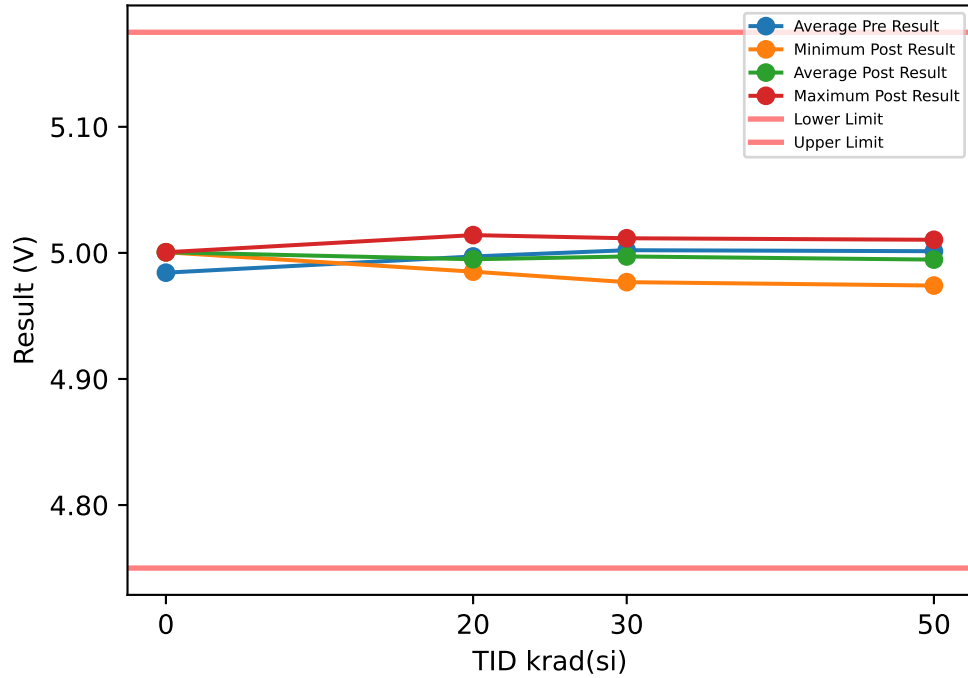


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0172 | 5.0172 | 5.0172 | | 5.0067 | 5.0067 | 5.0067 | | -0.0105 | -0.0105 | -0.0105 | |
| 20 | 4.986 | 5.0011 | 5.0228 | 0.011725 | 4.9851 | 4.9994 | 5.0193 | 0.011257 | -0.0113 | -0.00166 | 0.0112 | 0.005534 |
| 30 | 4.9862 | 5.0062 | 5.0226 | 0.012765 | 4.9791 | 5.0012 | 5.0186 | 0.013953 | -0.0368 | -0.00504 | 0.0236 | 0.017568 |
| 50 | 4.9943 | 5.007 | 5.0188 | 0.008791 | 4.9874 | 5.0031 | 5.0131 | 0.0084588 | -0.0208 | -0.0039 | 0.0096 | 0.0083128 |

Device Test: 61.17 V_BP5H(_V_BP5H IIM 1MHz VIN_12V)

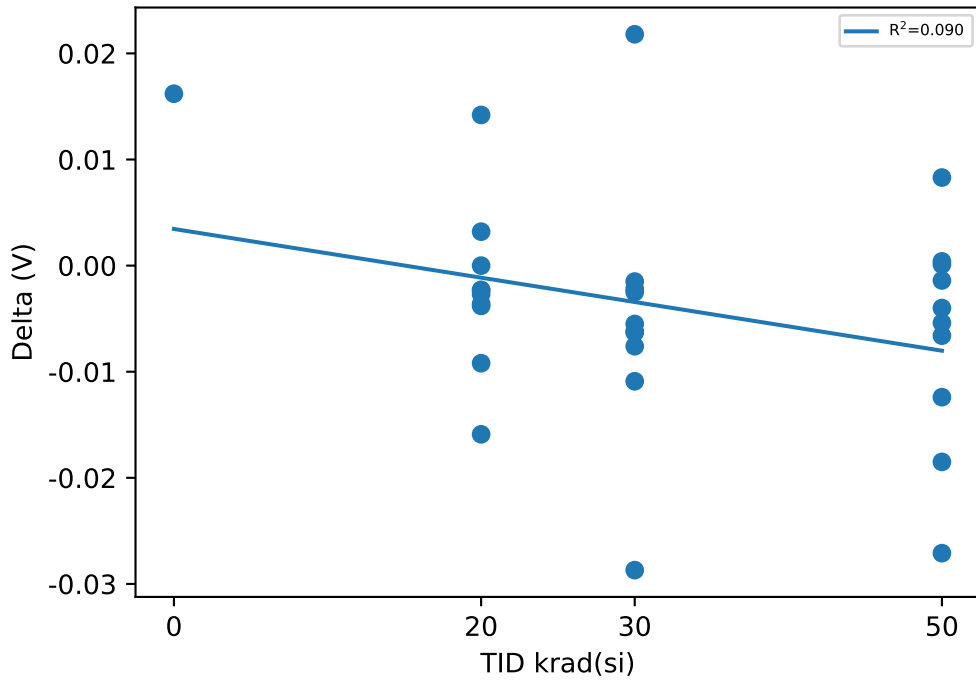
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9843 | 5.0005 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9874 | 4.9874 | 0 |
| 322 | 20 | HDR unbiased | 5.0177 | 5.0141 | -0.0036 |
| 323 | 20 | HDR unbiased | 5.0055 | 4.9963 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.99 | 4.9877 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9903 | 4.9935 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9867 | 4.9812 | -0.0055 |
| 332 | 30 | HDR unbiased | 5.0078 | 5.0053 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0179 | 5.0116 | -0.0063 |
| 334 | 30 | HDR unbiased | 4.9864 | 4.9849 | -0.0015 |
| 335 | 30 | HDR unbiased | 4.9844 | 4.9768 | -0.0076 |
| 351 | 50 | HDR unbiased | 4.9926 | 4.9741 | -0.0185 |
| 352 | 50 | HDR unbiased | 5.0028 | 4.9904 | -0.0124 |
| 353 | 50 | HDR unbiased | 4.9845 | 4.9846 | 0.0001 |
| 354 | 50 | HDR unbiased | 4.9974 | 5.0057 | 0.0083 |
| 355 | 50 | HDR unbiased | 5.0144 | 4.9873 | -0.0271 |
| 521 | 20 | HDR biased | 4.9889 | 4.9851 | -0.0038 |
| 522 | 20 | HDR biased | 5.0066 | 5.0043 | -0.0023 |
| 523 | 20 | HDR biased | 4.9934 | 4.9907 | -0.0027 |
| 524 | 20 | HDR biased | 4.9897 | 5.0039 | 0.0142 |
| 525 | 20 | HDR biased | 5.0022 | 4.9863 | -0.0159 |
| 531 | 30 | HDR biased | 5.0128 | 5.0066 | -0.0062 |
| 532 | 30 | HDR biased | 5.011 | 4.9823 | -0.0287 |
| 533 | 30 | HDR biased | 4.9856 | 5.0074 | 0.0218 |
| 534 | 30 | HDR biased | 5.0179 | 5.007 | -0.0109 |
| 535 | 30 | HDR biased | 5.0108 | 5.0086 | -0.0022 |
| 551 | 50 | HDR biased | 4.9894 | 4.984 | -0.0054 |
| 552 | 50 | HDR biased | 5.0065 | 4.9999 | -0.0066 |
| 553 | 50 | HDR biased | 5.005 | 5.0036 | -0.0014 |
| 554 | 50 | HDR biased | 5.0064 | 5.0068 | 0.0004 |
| 555 | 50 | HDR biased | 5.0144 | 5.0104 | -0.004 |

TID vs Post - Pre Exposure Delta

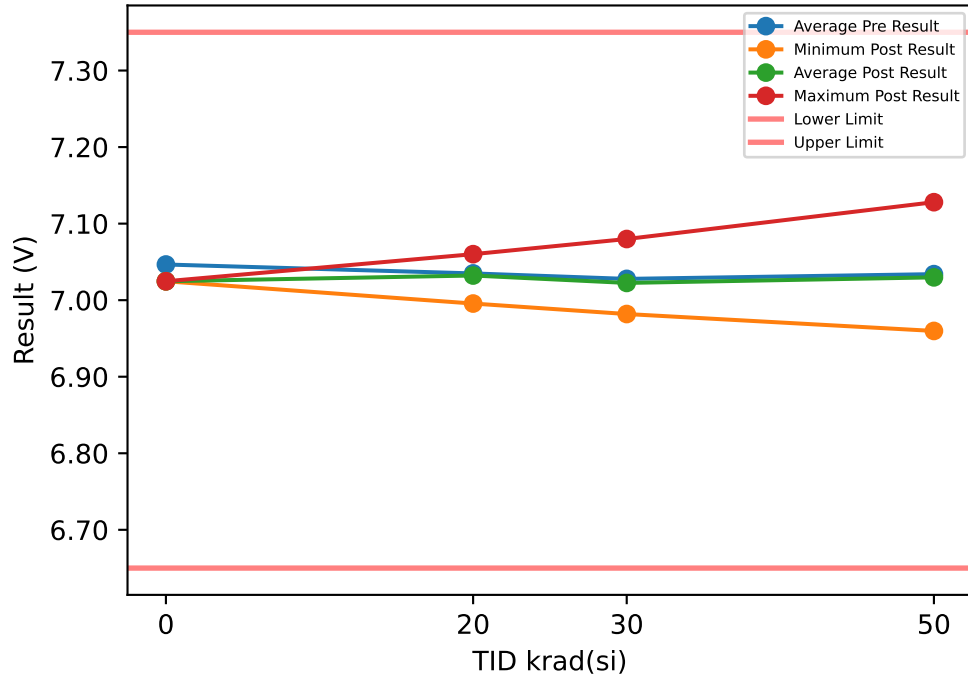


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9843 | 4.9843 | 4.9843 | | 5.0005 | 5.0005 | 5.0005 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9874 | 4.9972 | 5.0177 | 0.010207 | 4.9851 | 4.9949 | 5.0141 | 0.0096473 | -0.0159 | -0.00224 | 0.0142 | 0.0077776 |
| 30 | 4.9844 | 5.0021 | 5.0179 | 0.014416 | 4.9768 | 4.9972 | 5.0116 | 0.013892 | -0.0287 | -0.00496 | 0.0218 | 0.012253 |
| 50 | 4.9845 | 5.0013 | 5.0144 | 0.010149 | 4.9741 | 4.9947 | 5.0104 | 0.012176 | -0.0271 | -0.00666 | 0.0083 | 0.010256 |

Device Test: 61.18 V_BP7L(_V_BP7L IIM 2MHz VIN_12V)

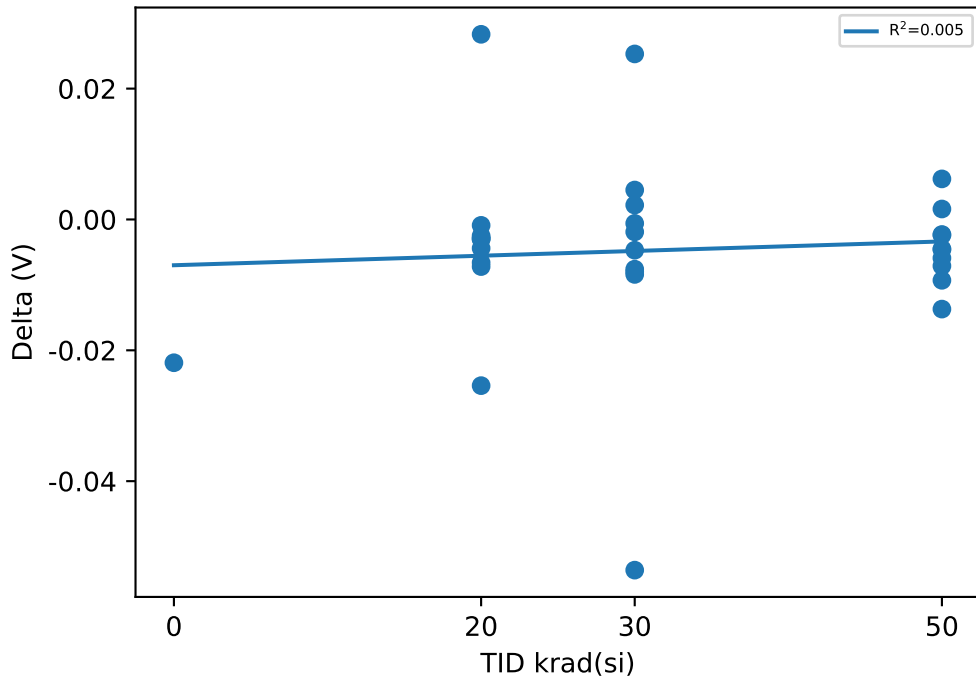
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0466 | 7.0247 | -0.0219 |
| 321 | 20 | HDR unbiased | 7.0645 | 7.0601 | -0.0044 |
| 322 | 20 | HDR unbiased | 7.0569 | 7.0541 | -0.0028 |
| 323 | 20 | HDR unbiased | 7.0084 | 7.0012 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.0251 | 7.0221 | -0.003 |
| 325 | 20 | HDR unbiased | 7.0599 | 7.0574 | -0.0025 |
| 331 | 30 | HDR unbiased | 7.0031 | 6.9984 | -0.0047 |
| 332 | 30 | HDR unbiased | 6.9903 | 6.9819 | -0.0084 |
| 333 | 30 | HDR unbiased | 7.0239 | 7.0163 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0174 | 7.0219 | 0.0045 |
| 335 | 30 | HDR unbiased | 6.9819 | 6.9841 | 0.0022 |
| 351 | 50 | HDR unbiased | 7.0019 | 7.0081 | 0.0062 |
| 352 | 50 | HDR unbiased | 6.9643 | 6.9598 | -0.0045 |
| 353 | 50 | HDR unbiased | 7.0117 | 6.998 | -0.0137 |
| 354 | 50 | HDR unbiased | 7.0652 | 7.0628 | -0.0024 |
| 355 | 50 | HDR unbiased | 7.0634 | 7.065 | 0.0016 |
| 521 | 20 | HDR biased | 7.0054 | 6.9988 | -0.0066 |
| 522 | 20 | HDR biased | 7.049 | 7.0481 | -0.0009 |
| 523 | 20 | HDR biased | 6.9986 | 6.9956 | -0.003 |
| 524 | 20 | HDR biased | 7.0553 | 7.0299 | -0.0254 |
| 525 | 20 | HDR biased | 7.0265 | 7.0548 | 0.0283 |
| 531 | 30 | HDR biased | 7.0595 | 7.0515 | -0.008 |
| 532 | 30 | HDR biased | 7.0071 | 7.0324 | 0.0253 |
| 533 | 30 | HDR biased | 7.0532 | 6.9996 | -0.0536 |
| 534 | 30 | HDR biased | 7.0818 | 7.0799 | -0.0019 |
| 535 | 30 | HDR biased | 7.0599 | 7.0593 | -0.0006 |
| 551 | 50 | HDR biased | 7.0203 | 7.018 | -0.0023 |
| 552 | 50 | HDR biased | 7.0463 | 7.0417 | -0.0046 |
| 553 | 50 | HDR biased | 7.0219 | 7.0148 | -0.0071 |
| 554 | 50 | HDR biased | 7.0078 | 7.0019 | -0.0059 |
| 555 | 50 | HDR biased | 7.1373 | 7.128 | -0.0093 |

TID vs Post - Pre Exposure Delta

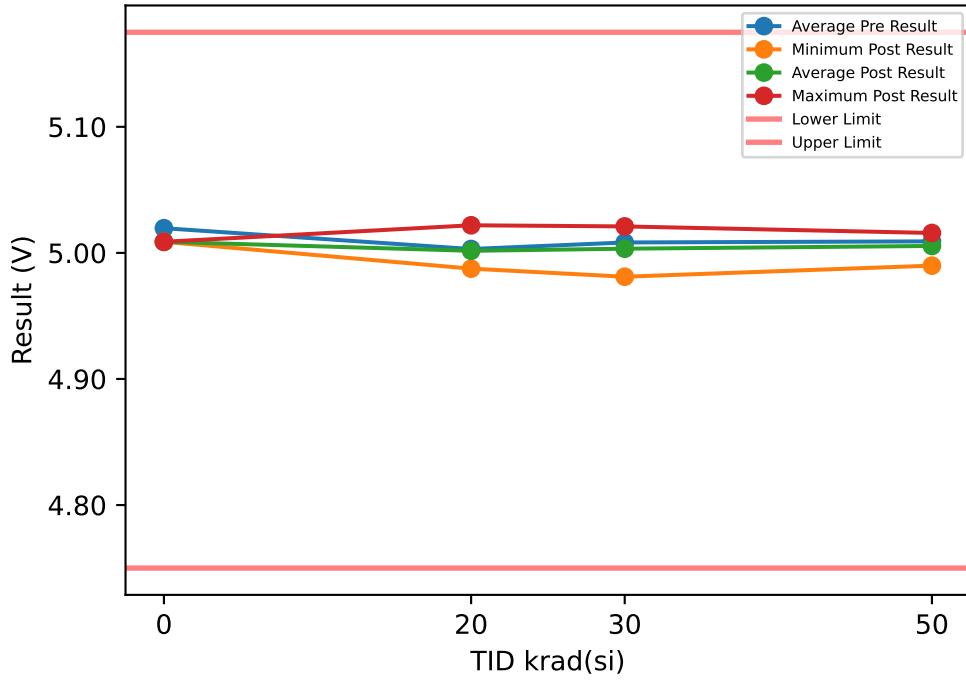


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0466 | 7.0466 | 7.0466 | | 7.0247 | 7.0247 | 7.0247 | | -0.0219 | -0.0219 | -0.0219 | |
| 20 | 6.9986 | 7.035 | 7.0645 | 0.025071 | 6.9956 | 7.0322 | 7.0601 | 0.026204 | -0.0254 | -0.00275 | 0.0283 | 0.012988 |
| 30 | 6.9819 | 7.0278 | 7.0818 | 0.033783 | 6.9819 | 7.0225 | 7.0799 | 0.033091 | -0.0536 | -0.00528 | 0.0253 | 0.019657 |
| 50 | 6.9643 | 7.034 | 7.1373 | 0.047219 | 6.9598 | 7.0298 | 7.128 | 0.046711 | -0.0137 | -0.0042 | 0.0062 | 0.0055424 |

Device Test: 61.19 V_BP5L(_V_BP5L IIM 2MHz VIN_12V)

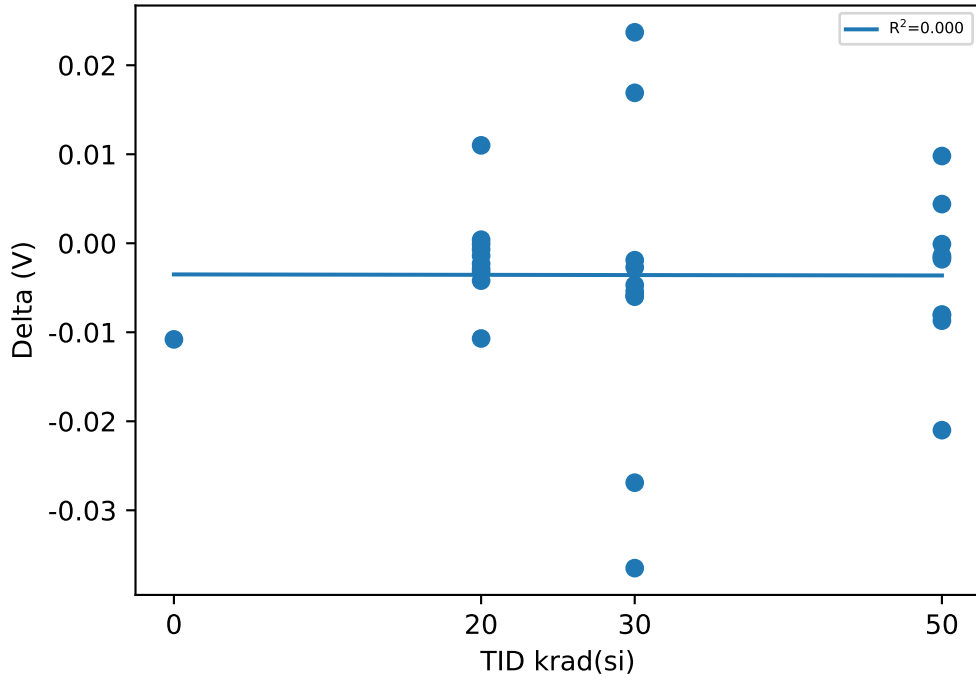
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0196 | 5.0088 | -0.0108 |
| 321 | 20 | HDR unbiased | 4.992 | 4.9924 | 0.0004 |
| 322 | 20 | HDR unbiased | 5.0185 | 5.0171 | -0.0014 |
| 323 | 20 | HDR unbiased | 4.9997 | 4.9996 | -0.0001 |
| 324 | 20 | HDR unbiased | 4.9971 | 4.9938 | -0.0033 |
| 325 | 20 | HDR unbiased | 5.0057 | 5.0015 | -0.0042 |
| 331 | 30 | HDR unbiased | 5.0019 | 4.9965 | -0.0054 |
| 332 | 30 | HDR unbiased | 5.0035 | 4.9988 | -0.0047 |
| 333 | 30 | HDR unbiased | 5.0173 | 5.0113 | -0.006 |
| 334 | 30 | HDR unbiased | 4.9989 | 4.993 | -0.0059 |
| 335 | 30 | HDR unbiased | 5.0211 | 5.0192 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0137 | 4.9927 | -0.021 |
| 352 | 50 | HDR unbiased | 4.9986 | 4.9899 | -0.0087 |
| 353 | 50 | HDR unbiased | 4.9961 | 5.0059 | 0.0098 |
| 354 | 50 | HDR unbiased | 5.0144 | 5.013 | -0.0014 |
| 355 | 50 | HDR unbiased | 5.0209 | 5.0128 | -0.0081 |
| 521 | 20 | HDR biased | 5.0248 | 5.0219 | -0.0029 |
| 522 | 20 | HDR biased | 4.9955 | 4.9932 | -0.0023 |
| 523 | 20 | HDR biased | 4.9882 | 4.9875 | -0.0007 |
| 524 | 20 | HDR biased | 4.9993 | 5.0103 | 0.011 |
| 525 | 20 | HDR biased | 5.01 | 4.9993 | -0.0107 |
| 531 | 30 | HDR biased | 5.008 | 4.9811 | -0.0269 |
| 532 | 30 | HDR biased | 5.025 | 4.9885 | -0.0365 |
| 533 | 30 | HDR biased | 4.9952 | 5.0189 | 0.0237 |
| 534 | 30 | HDR biased | 5.0237 | 5.021 | -0.0027 |
| 535 | 30 | HDR biased | 4.9881 | 5.005 | 0.0169 |
| 551 | 50 | HDR biased | 5.0028 | 5.0027 | -0.0001 |
| 552 | 50 | HDR biased | 5.006 | 5.0044 | -0.0016 |
| 553 | 50 | HDR biased | 5.0176 | 5.0158 | -0.0018 |
| 554 | 50 | HDR biased | 5.0185 | 5.0105 | -0.008 |
| 555 | 50 | HDR biased | 5.0029 | 5.0073 | 0.0044 |

TID vs Post - Pre Exposure Delta

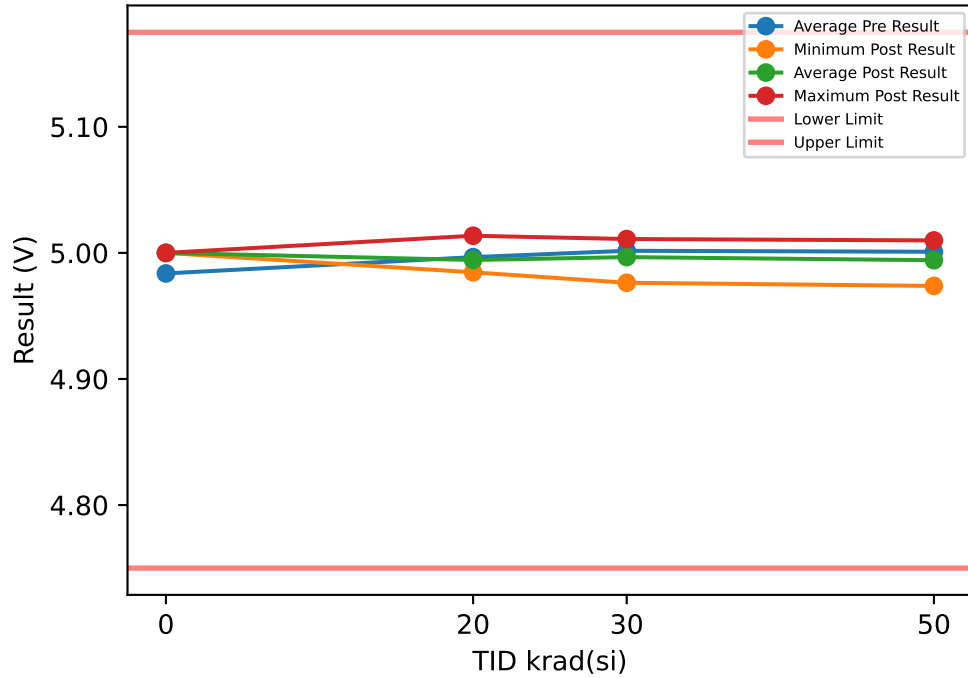


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0196 | 5.0196 | 5.0196 | | 5.0088 | 5.0088 | 5.0088 | | -0.0108 | -0.0108 | -0.0108 | |
| 20 | 4.9882 | 5.0031 | 5.0248 | 0.011678 | 4.9875 | 5.0017 | 5.0219 | 0.011314 | -0.0107 | -0.00142 | 0.011 | 0.0053767 |
| 30 | 4.9881 | 5.0083 | 5.025 | 0.01288 | 4.9811 | 5.0033 | 5.021 | 0.013987 | -0.0365 | -0.00494 | 0.0237 | 0.017613 |
| 50 | 4.9961 | 5.0091 | 5.0209 | 0.0089198 | 4.9899 | 5.0055 | 5.0158 | 0.0085653 | -0.021 | -0.00365 | 0.0098 | 0.008408 |

Device Test: 61.2 V_BP5H(_V_BP5H PWM 500kHz VIN_12V)

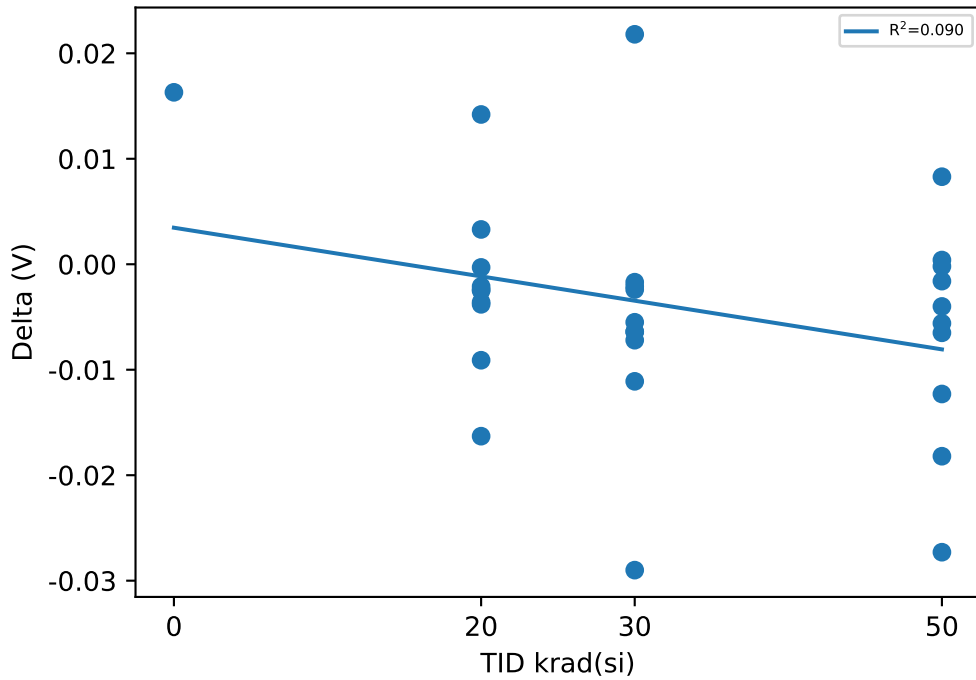
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9837 | 5 | 0.0163 |
| 321 | 20 | HDR unbiased | 4.987 | 4.9867 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0172 | 5.0136 | -0.0036 |
| 323 | 20 | HDR unbiased | 5.0049 | 4.9958 | -0.0091 |
| 324 | 20 | HDR unbiased | 4.9895 | 4.9871 | -0.0024 |
| 325 | 20 | HDR unbiased | 4.9898 | 4.9931 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9862 | 4.9807 | -0.0055 |
| 332 | 30 | HDR unbiased | 5.0073 | 5.0049 | -0.0024 |
| 333 | 30 | HDR unbiased | 5.0174 | 5.011 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9861 | 4.9844 | -0.0017 |
| 335 | 30 | HDR unbiased | 4.9835 | 4.9763 | -0.0072 |
| 351 | 50 | HDR unbiased | 4.992 | 4.9738 | -0.0182 |
| 352 | 50 | HDR unbiased | 5.0023 | 4.99 | -0.0123 |
| 353 | 50 | HDR unbiased | 4.9842 | 4.984 | -0.0002 |
| 354 | 50 | HDR unbiased | 4.9969 | 5.0052 | 0.0083 |
| 355 | 50 | HDR unbiased | 5.0141 | 4.9868 | -0.0273 |
| 521 | 20 | HDR biased | 4.9884 | 4.9846 | -0.0038 |
| 522 | 20 | HDR biased | 5.0059 | 5.0038 | -0.0021 |
| 523 | 20 | HDR biased | 4.9927 | 4.9902 | -0.0025 |
| 524 | 20 | HDR biased | 4.9891 | 5.0033 | 0.0142 |
| 525 | 20 | HDR biased | 5.0019 | 4.9856 | -0.0163 |
| 531 | 30 | HDR biased | 5.0125 | 5.0061 | -0.0064 |
| 532 | 30 | HDR biased | 5.0106 | 4.9816 | -0.029 |
| 533 | 30 | HDR biased | 4.9852 | 5.007 | 0.0218 |
| 534 | 30 | HDR biased | 5.0176 | 5.0065 | -0.0111 |
| 535 | 30 | HDR biased | 5.0102 | 5.0081 | -0.0021 |
| 551 | 50 | HDR biased | 4.9891 | 4.9835 | -0.0056 |
| 552 | 50 | HDR biased | 5.0061 | 4.9996 | -0.0065 |
| 553 | 50 | HDR biased | 5.0046 | 5.003 | -0.0016 |
| 554 | 50 | HDR biased | 5.0058 | 5.0062 | 0.0004 |
| 555 | 50 | HDR biased | 5.0139 | 5.0099 | -0.004 |

TID vs Post - Pre Exposure Delta

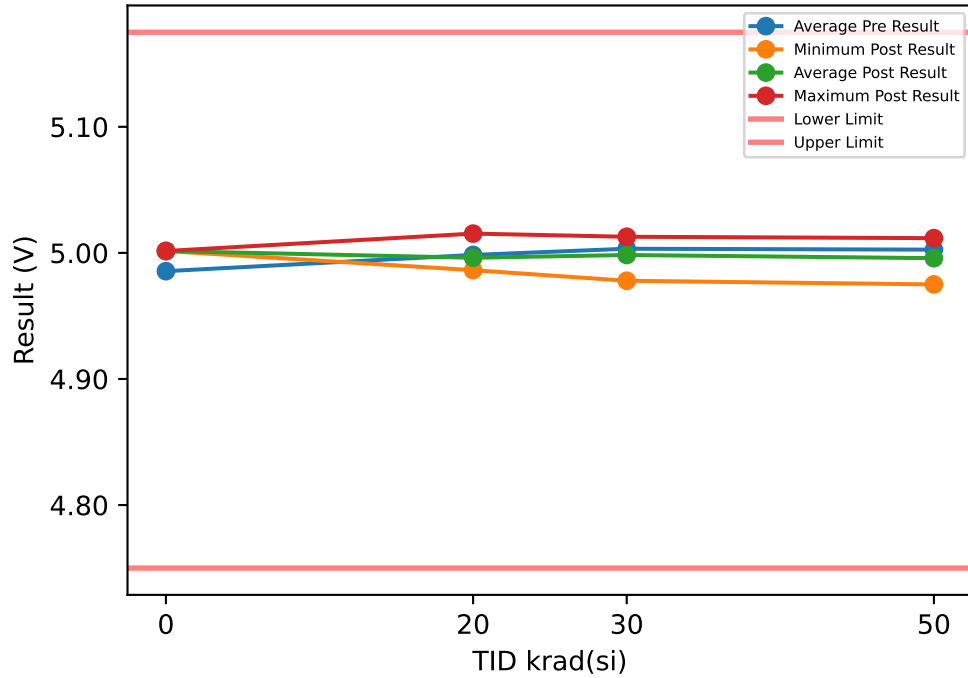


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9837 | 4.9837 | 4.9837 | | 5 | 5 | 5 | | 0.0163 | 0.0163 | 0.0163 | |
| 20 | 4.987 | 4.9966 | 5.0172 | 0.010194 | 4.9846 | 4.9944 | 5.0136 | 0.0096813 | -0.0163 | -0.00226 | 0.0142 | 0.0078448 |
| 30 | 4.9835 | 5.0017 | 5.0176 | 0.014475 | 4.9763 | 4.9967 | 5.011 | 0.013919 | -0.029 | -0.005 | 0.0218 | 0.012322 |
| 50 | 4.9842 | 5.0009 | 5.0141 | 0.010129 | 4.9738 | 4.9942 | 5.0099 | 0.012134 | -0.0273 | -0.0067 | 0.0083 | 0.010221 |

Device Test: 61.20 V_BP5H(_V_BP5H IIM 2MHz VIN_12V)

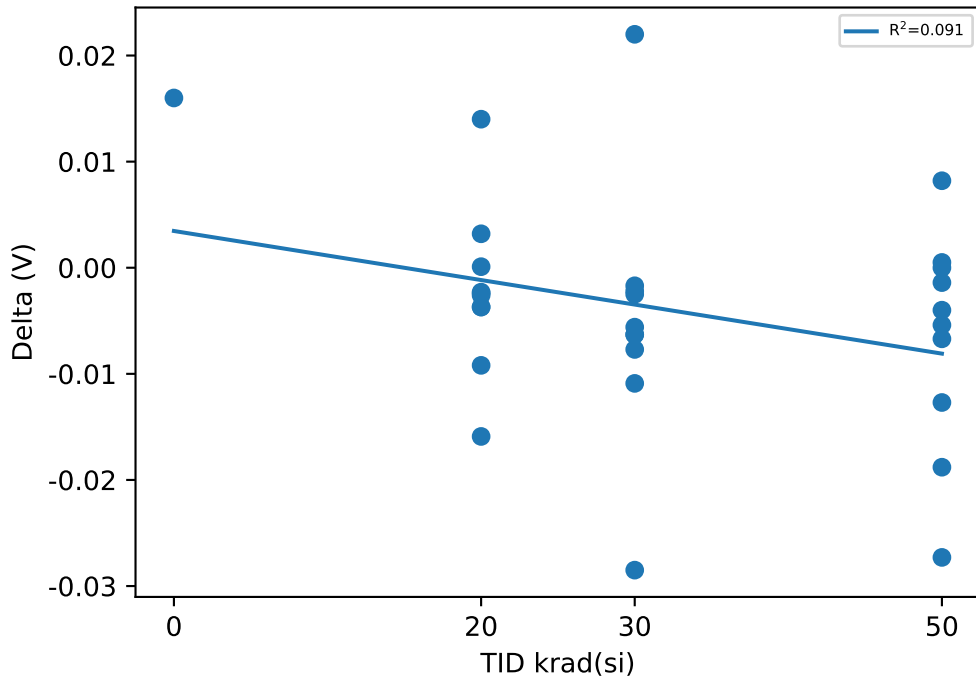
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9855 | 5.0015 | 0.016 |
| 321 | 20 | HDR unbiased | 4.9886 | 4.9887 | 0.0001 |
| 322 | 20 | HDR unbiased | 5.019 | 5.0153 | -0.0037 |
| 323 | 20 | HDR unbiased | 5.0067 | 4.9975 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.9911 | 4.9888 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9916 | 4.9948 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.988 | 4.9824 | -0.0056 |
| 332 | 30 | HDR unbiased | 5.009 | 5.0065 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0191 | 5.0128 | -0.0063 |
| 334 | 30 | HDR unbiased | 4.9877 | 4.986 | -0.0017 |
| 335 | 30 | HDR unbiased | 4.9856 | 4.9779 | -0.0077 |
| 351 | 50 | HDR unbiased | 4.9938 | 4.975 | -0.0188 |
| 352 | 50 | HDR unbiased | 5.0042 | 4.9915 | -0.0127 |
| 353 | 50 | HDR unbiased | 4.9858 | 4.9858 | 0 |
| 354 | 50 | HDR unbiased | 4.9986 | 5.0068 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0156 | 4.9883 | -0.0273 |
| 521 | 20 | HDR biased | 4.99 | 4.9863 | -0.0037 |
| 522 | 20 | HDR biased | 5.0078 | 5.0054 | -0.0024 |
| 523 | 20 | HDR biased | 4.9946 | 4.992 | -0.0026 |
| 524 | 20 | HDR biased | 4.991 | 5.005 | 0.014 |
| 525 | 20 | HDR biased | 5.0034 | 4.9875 | -0.0159 |
| 531 | 30 | HDR biased | 5.014 | 5.0077 | -0.0063 |
| 532 | 30 | HDR biased | 5.0122 | 4.9837 | -0.0285 |
| 533 | 30 | HDR biased | 4.9866 | 5.0086 | 0.022 |
| 534 | 30 | HDR biased | 5.0189 | 5.008 | -0.0109 |
| 535 | 30 | HDR biased | 5.0119 | 5.0097 | -0.0022 |
| 551 | 50 | HDR biased | 4.9905 | 4.9851 | -0.0054 |
| 552 | 50 | HDR biased | 5.0077 | 5.001 | -0.0067 |
| 553 | 50 | HDR biased | 5.0063 | 5.0049 | -0.0014 |
| 554 | 50 | HDR biased | 5.0076 | 5.0081 | 0.0005 |
| 555 | 50 | HDR biased | 5.0157 | 5.0117 | -0.004 |

TID vs Post - Pre Exposure Delta

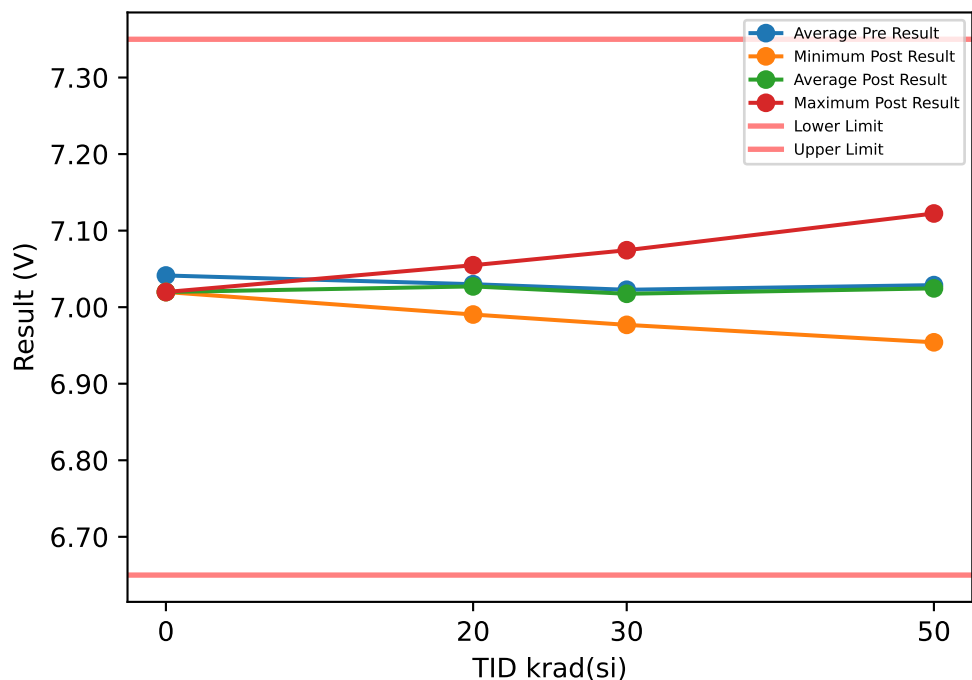


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9855 | 4.9855 | 4.9855 | | 5.0015 | 5.0015 | 5.0015 | | 0.016 | 0.016 | 0.016 | |
| 20 | 4.9886 | 4.9984 | 5.019 | 0.01023 | 4.9863 | 4.9961 | 5.0153 | 0.0096197 | -0.0159 | -0.00225 | 0.014 | 0.0077335 |
| 30 | 4.9856 | 5.0033 | 5.0191 | 0.014387 | 4.9779 | 4.9983 | 5.0128 | 0.013862 | -0.0285 | -0.00497 | 0.022 | 0.012257 |
| 50 | 4.9858 | 5.0026 | 5.0157 | 0.010165 | 4.975 | 4.9958 | 5.0117 | 0.012278 | -0.0273 | -0.00676 | 0.0082 | 0.010342 |

Device Test: 61.21 V_BP7L(_V_BP7L IIM 5MHz VIN_12V)

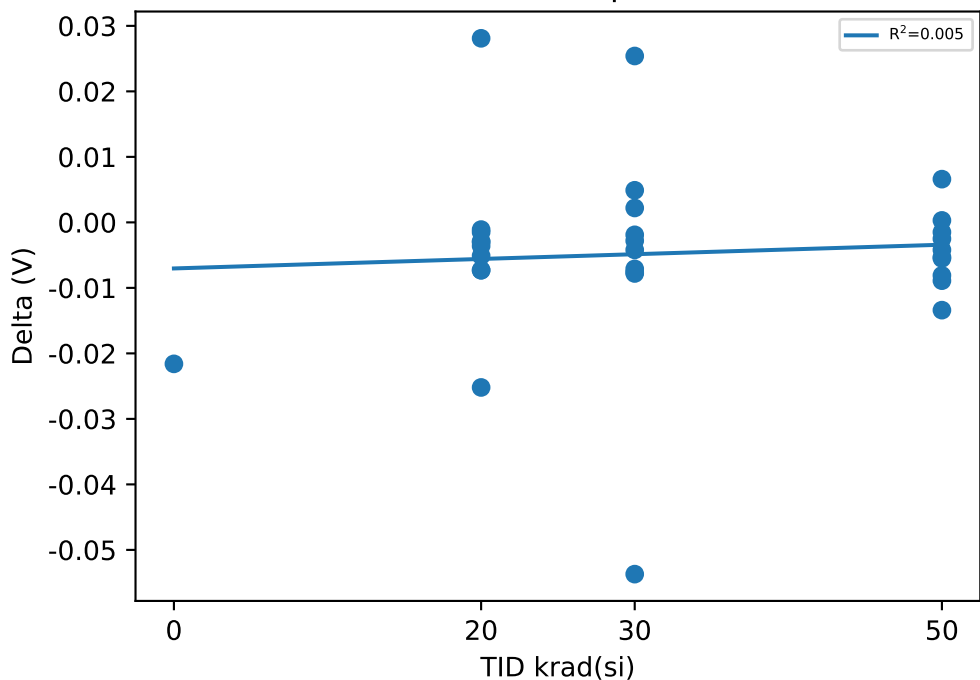
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0414 | 7.0198 | -0.0216 |
| 321 | 20 | HDR unbiased | 7.0599 | 7.0548 | -0.0051 |
| 322 | 20 | HDR unbiased | 7.0521 | 7.0485 | -0.0036 |
| 323 | 20 | HDR unbiased | 7.003 | 6.9957 | -0.0073 |
| 324 | 20 | HDR unbiased | 7.0202 | 7.0172 | -0.003 |
| 325 | 20 | HDR unbiased | 7.0542 | 7.0527 | -0.0015 |
| 331 | 30 | HDR unbiased | 6.9977 | 6.9935 | -0.0042 |
| 332 | 30 | HDR unbiased | 6.9847 | 6.9769 | -0.0078 |
| 333 | 30 | HDR unbiased | 7.0185 | 7.0109 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0129 | 7.0178 | 0.0049 |
| 335 | 30 | HDR unbiased | 6.9773 | 6.9795 | 0.0022 |
| 351 | 50 | HDR unbiased | 6.9964 | 7.003 | 0.0066 |
| 352 | 50 | HDR unbiased | 6.9596 | 6.9541 | -0.0055 |
| 353 | 50 | HDR unbiased | 7.0065 | 6.9931 | -0.0134 |
| 354 | 50 | HDR unbiased | 7.0594 | 7.0579 | -0.0015 |
| 355 | 50 | HDR unbiased | 7.0587 | 7.059 | 0.0003 |
| 521 | 20 | HDR biased | 7.001 | 6.9937 | -0.0073 |
| 522 | 20 | HDR biased | 7.0442 | 7.0431 | -0.0011 |
| 523 | 20 | HDR biased | 6.9933 | 6.9904 | -0.0029 |
| 524 | 20 | HDR biased | 7.0503 | 7.0251 | -0.0252 |
| 525 | 20 | HDR biased | 7.0219 | 7.05 | 0.0281 |
| 531 | 30 | HDR biased | 7.0538 | 7.0467 | -0.0071 |
| 532 | 30 | HDR biased | 7.0015 | 7.0269 | 0.0254 |
| 533 | 30 | HDR biased | 7.0484 | 6.9947 | -0.0537 |
| 534 | 30 | HDR biased | 7.0772 | 7.0744 | -0.0028 |
| 535 | 30 | HDR biased | 7.0554 | 7.0535 | -0.0019 |
| 551 | 50 | HDR biased | 7.0155 | 7.013 | -0.0025 |
| 552 | 50 | HDR biased | 7.0409 | 7.0367 | -0.0042 |
| 553 | 50 | HDR biased | 7.0173 | 7.0092 | -0.0081 |
| 554 | 50 | HDR biased | 7.0025 | 6.9972 | -0.0053 |
| 555 | 50 | HDR biased | 7.1313 | 7.1224 | -0.0089 |

TID vs Post - Pre Exposure Delta

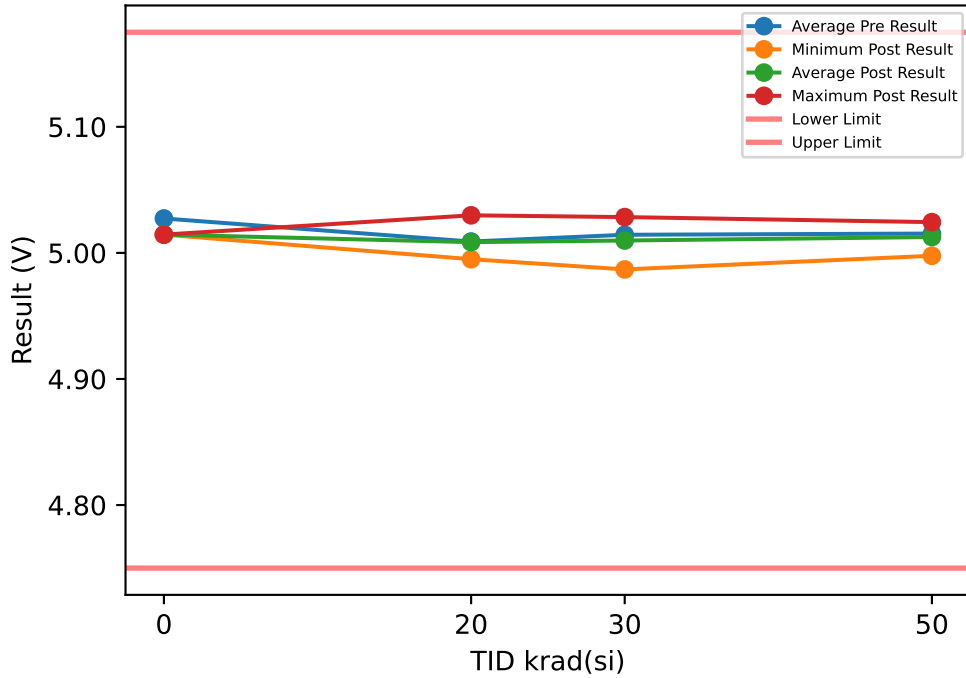


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0414 | 7.0414 | 7.0414 | | 7.0198 | 7.0198 | 7.0198 | | -0.0216 | -0.0216 | -0.0216 | |
| 20 | 6.9933 | 7.03 | 7.0599 | 0.025078 | 6.9904 | 7.0271 | 7.0548 | 0.026271 | -0.0252 | -0.00289 | 0.0281 | 0.012942 |
| 30 | 6.9773 | 7.0227 | 7.0772 | 0.033929 | 6.9769 | 7.0175 | 7.0744 | 0.03284 | -0.0537 | -0.00526 | 0.0254 | 0.019661 |
| 50 | 6.9596 | 7.0288 | 7.1313 | 0.046927 | 6.9541 | 7.0246 | 7.1224 | 0.046613 | -0.0134 | -0.00425 | 0.0066 | 0.0054963 |

Device Test: 61.22 V_BP5L(_V_BP5L IIM 5MHz VIN_12V)

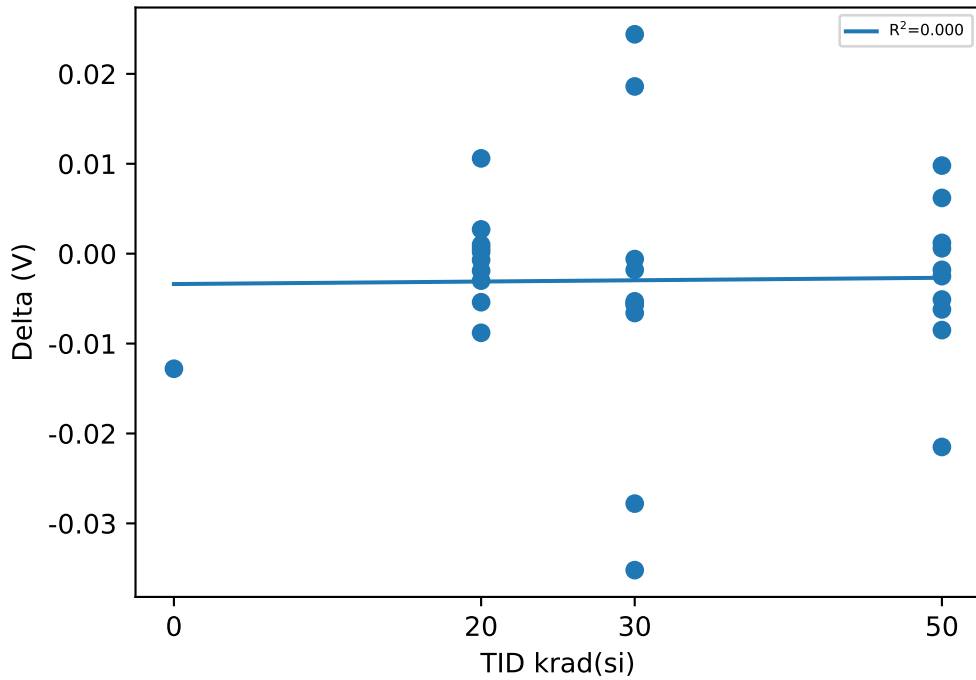
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0273 | 5.0145 | -0.0128 |
| 321 | 20 | HDR unbiased | 4.9971 | 4.9998 | 0.0027 |
| 322 | 20 | HDR unbiased | 5.0239 | 5.0249 | 0.001 |
| 323 | 20 | HDR unbiased | 5.0063 | 5.0069 | 0.0006 |
| 324 | 20 | HDR unbiased | 5.0025 | 4.9995 | -0.003 |
| 325 | 20 | HDR unbiased | 5.0129 | 5.0075 | -0.0054 |
| 331 | 30 | HDR unbiased | 5.0083 | 5.0017 | -0.0066 |
| 332 | 30 | HDR unbiased | 5.0102 | 5.0047 | -0.0055 |
| 333 | 30 | HDR unbiased | 5.0248 | 5.0195 | -0.0053 |
| 334 | 30 | HDR unbiased | 5.0039 | 4.9982 | -0.0057 |
| 335 | 30 | HDR unbiased | 5.027 | 5.0252 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0201 | 4.9986 | -0.0215 |
| 352 | 50 | HDR unbiased | 5.0039 | 4.9977 | -0.0062 |
| 353 | 50 | HDR unbiased | 5.0015 | 5.0113 | 0.0098 |
| 354 | 50 | HDR unbiased | 5.0218 | 5.0193 | -0.0025 |
| 355 | 50 | HDR unbiased | 5.0267 | 5.0216 | -0.0051 |
| 521 | 20 | HDR biased | 5.0305 | 5.0298 | -0.0007 |
| 522 | 20 | HDR biased | 5.0011 | 4.9992 | -0.0019 |
| 523 | 20 | HDR biased | 4.9948 | 4.995 | 0.0002 |
| 524 | 20 | HDR biased | 5.0056 | 5.0162 | 0.0106 |
| 525 | 20 | HDR biased | 5.0154 | 5.0066 | -0.0088 |
| 531 | 30 | HDR biased | 5.0147 | 4.9869 | -0.0278 |
| 532 | 30 | HDR biased | 5.0317 | 4.9965 | -0.0352 |
| 533 | 30 | HDR biased | 5.0003 | 5.0247 | 0.0244 |
| 534 | 30 | HDR biased | 5.029 | 5.0284 | -0.0006 |
| 535 | 30 | HDR biased | 4.9938 | 5.0124 | 0.0186 |
| 551 | 50 | HDR biased | 5.0085 | 5.0091 | 0.0006 |
| 552 | 50 | HDR biased | 5.0124 | 5.0106 | -0.0018 |
| 553 | 50 | HDR biased | 5.0232 | 5.0244 | 0.0012 |
| 554 | 50 | HDR biased | 5.0253 | 5.0168 | -0.0085 |
| 555 | 50 | HDR biased | 5.01 | 5.0162 | 0.0062 |

TID vs Post - Pre Exposure Delta

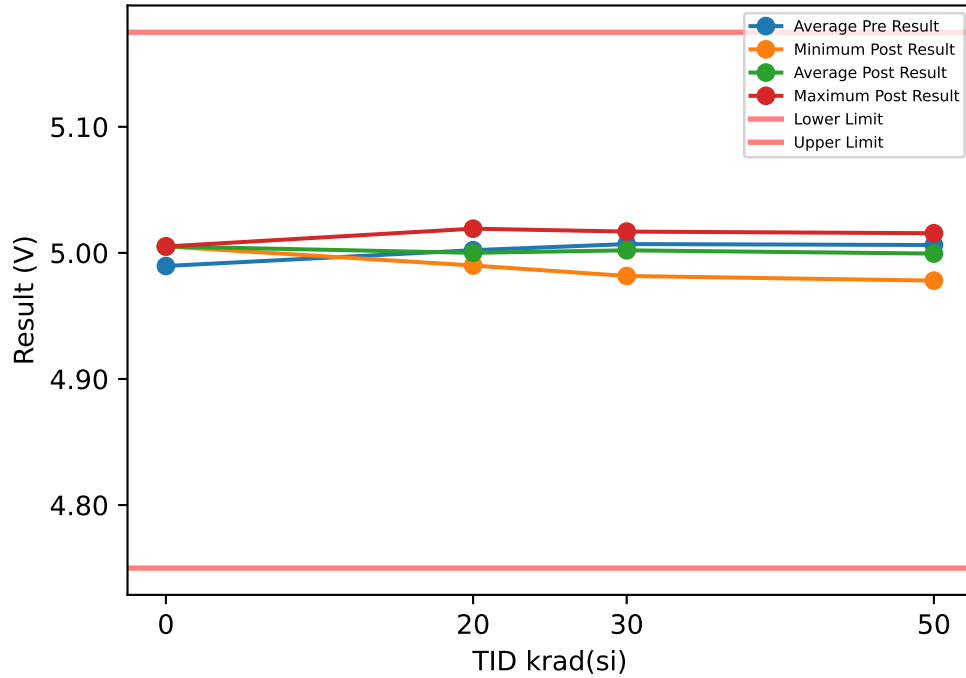


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0273 | 5.0273 | 5.0273 | | 5.0145 | 5.0145 | 5.0145 | | -0.0128 | -0.0128 | -0.0128 | |
| 20 | 4.9948 | 5.009 | 5.0305 | 0.011582 | 4.995 | 5.0085 | 5.0298 | 0.011617 | -0.0088 | -0.00047 | 0.0106 | 0.0051483 |
| 30 | 4.9938 | 5.0144 | 5.0317 | 0.013198 | 4.9869 | 5.0098 | 5.0284 | 0.014273 | -0.0352 | -0.00455 | 0.0244 | 0.017901 |
| 50 | 5.0015 | 5.0153 | 5.0267 | 0.0091941 | 4.9977 | 5.0126 | 5.0244 | 0.0090164 | -0.0215 | -0.00278 | 0.0098 | 0.0086116 |

Device Test: 61.23 V_BP5H(_V_BP5H IIM 5MHz VIN_12V)

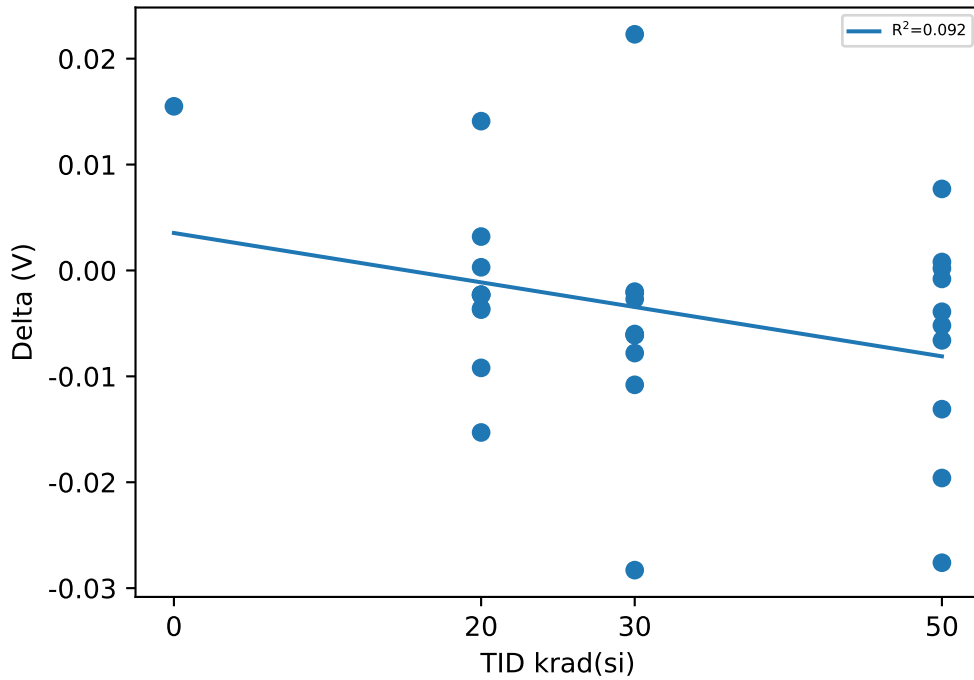
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9896 | 5.0051 | 0.0155 |
| 321 | 20 | HDR unbiased | 4.9925 | 4.9928 | 0.0003 |
| 322 | 20 | HDR unbiased | 5.0229 | 5.0192 | -0.0037 |
| 323 | 20 | HDR unbiased | 5.0105 | 5.0013 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.995 | 4.9927 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9954 | 4.9986 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9921 | 4.9861 | -0.006 |
| 332 | 30 | HDR unbiased | 5.013 | 5.0103 | -0.0027 |
| 333 | 30 | HDR unbiased | 5.023 | 5.0169 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9917 | 4.9896 | -0.0021 |
| 335 | 30 | HDR unbiased | 4.9895 | 4.9817 | -0.0078 |
| 351 | 50 | HDR unbiased | 4.9976 | 4.978 | -0.0196 |
| 352 | 50 | HDR unbiased | 5.0082 | 4.9951 | -0.0131 |
| 353 | 50 | HDR unbiased | 4.9893 | 4.9895 | 0.0002 |
| 354 | 50 | HDR unbiased | 5.0022 | 5.0099 | 0.0077 |
| 355 | 50 | HDR unbiased | 5.0193 | 4.9917 | -0.0276 |
| 521 | 20 | HDR biased | 4.9936 | 4.99 | -0.0036 |
| 522 | 20 | HDR biased | 5.0116 | 5.0093 | -0.0023 |
| 523 | 20 | HDR biased | 4.9983 | 4.996 | -0.0023 |
| 524 | 20 | HDR biased | 4.9947 | 5.0088 | 0.0141 |
| 525 | 20 | HDR biased | 5.007 | 4.9917 | -0.0153 |
| 531 | 30 | HDR biased | 5.0175 | 5.0114 | -0.0061 |
| 532 | 30 | HDR biased | 5.0157 | 4.9874 | -0.0283 |
| 533 | 30 | HDR biased | 4.9898 | 5.0121 | 0.0223 |
| 534 | 30 | HDR biased | 5.0221 | 5.0113 | -0.0108 |
| 535 | 30 | HDR biased | 5.0156 | 5.0136 | -0.002 |
| 551 | 50 | HDR biased | 4.9939 | 4.9887 | -0.0052 |
| 552 | 50 | HDR biased | 5.0113 | 5.0047 | -0.0066 |
| 553 | 50 | HDR biased | 5.0099 | 5.0091 | -0.0008 |
| 554 | 50 | HDR biased | 5.0114 | 5.0122 | 0.0008 |
| 555 | 50 | HDR biased | 5.0195 | 5.0156 | -0.0039 |

TID vs Post - Pre Exposure Delta

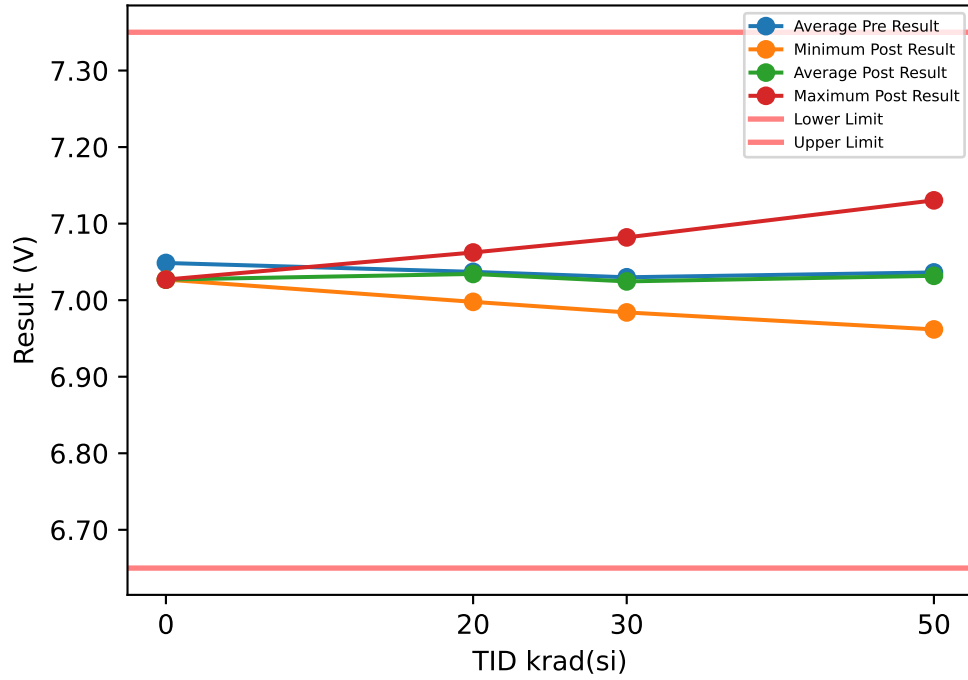


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9896 | 4.9896 | 4.9896 | | 5.0051 | 5.0051 | 5.0051 | | 0.0155 | 0.0155 | 0.0155 | |
| 20 | 4.9925 | 5.0022 | 5.0229 | 0.010254 | 4.99 | 5 | 5.0192 | 0.0095814 | -0.0153 | -0.00211 | 0.0141 | 0.0076439 |
| 30 | 4.9895 | 5.007 | 5.023 | 0.014291 | 4.9817 | 5.002 | 5.0169 | 0.013881 | -0.0283 | -0.00496 | 0.0223 | 0.012274 |
| 50 | 4.9893 | 5.0063 | 5.0195 | 0.010253 | 4.978 | 4.9995 | 5.0156 | 0.012503 | -0.0276 | -0.00681 | 0.0077 | 0.010542 |

Device Test: 61.3 V_BP7L(_V_BP7L PWM 1MHz VIN_12V)

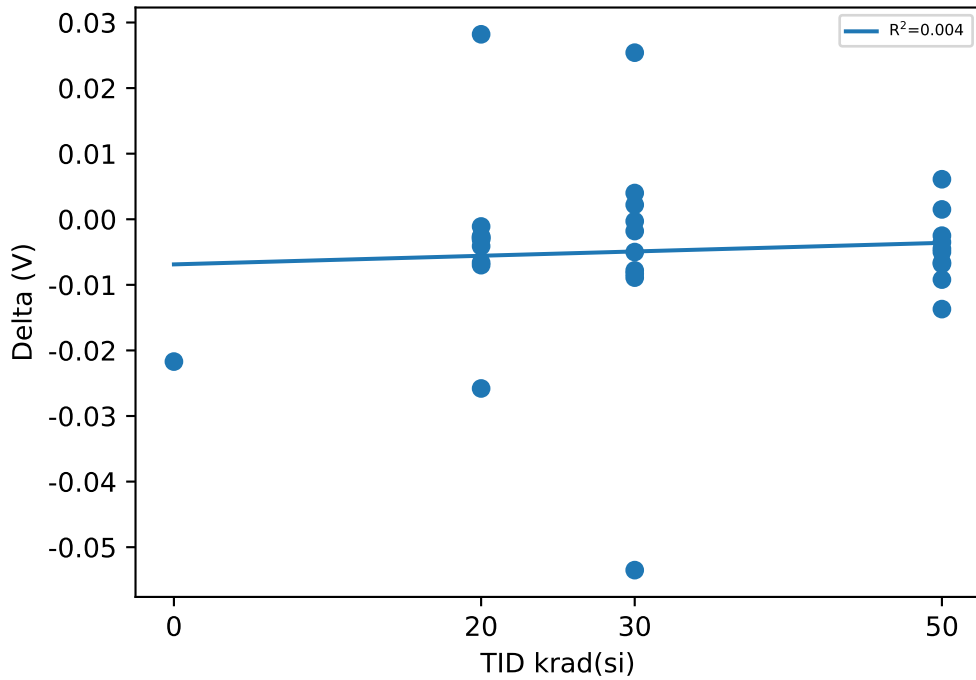
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0486 | 7.0269 | -0.0217 |
| 321 | 20 | HDR unbiased | 7.0664 | 7.0623 | -0.0041 |
| 322 | 20 | HDR unbiased | 7.0588 | 7.0562 | -0.0026 |
| 323 | 20 | HDR unbiased | 7.0105 | 7.0035 | -0.007 |
| 324 | 20 | HDR unbiased | 7.0271 | 7.024 | -0.0031 |
| 325 | 20 | HDR unbiased | 7.0621 | 7.0594 | -0.0027 |
| 331 | 30 | HDR unbiased | 7.0054 | 7.0004 | -0.005 |
| 332 | 30 | HDR unbiased | 6.9929 | 6.984 | -0.0089 |
| 333 | 30 | HDR unbiased | 7.0261 | 7.0183 | -0.0078 |
| 334 | 30 | HDR unbiased | 7.0193 | 7.0233 | 0.004 |
| 335 | 30 | HDR unbiased | 6.9838 | 6.986 | 0.0022 |
| 351 | 50 | HDR unbiased | 7.0042 | 7.0103 | 0.0061 |
| 352 | 50 | HDR unbiased | 6.9663 | 6.9618 | -0.0045 |
| 353 | 50 | HDR unbiased | 7.0138 | 7.0001 | -0.0137 |
| 354 | 50 | HDR unbiased | 7.0678 | 7.0643 | -0.0035 |
| 355 | 50 | HDR unbiased | 7.0655 | 7.067 | 0.0015 |
| 521 | 20 | HDR biased | 7.0075 | 7.0009 | -0.0066 |
| 522 | 20 | HDR biased | 7.0511 | 7.05 | -0.0011 |
| 523 | 20 | HDR biased | 7.0007 | 6.9978 | -0.0029 |
| 524 | 20 | HDR biased | 7.0574 | 7.0316 | -0.0258 |
| 525 | 20 | HDR biased | 7.0285 | 7.0567 | 0.0282 |
| 531 | 30 | HDR biased | 7.0616 | 7.0533 | -0.0083 |
| 532 | 30 | HDR biased | 7.0092 | 7.0346 | 0.0254 |
| 533 | 30 | HDR biased | 7.0552 | 7.0017 | -0.0535 |
| 534 | 30 | HDR biased | 7.0838 | 7.082 | -0.0018 |
| 535 | 30 | HDR biased | 7.0618 | 7.0615 | -0.0003 |
| 551 | 50 | HDR biased | 7.0224 | 7.0199 | -0.0025 |
| 552 | 50 | HDR biased | 7.0487 | 7.0437 | -0.005 |
| 553 | 50 | HDR biased | 7.0239 | 7.0171 | -0.0068 |
| 554 | 50 | HDR biased | 7.0103 | 7.0037 | -0.0066 |
| 555 | 50 | HDR biased | 7.1396 | 7.1304 | -0.0092 |

TID vs Post - Pre Exposure Delta

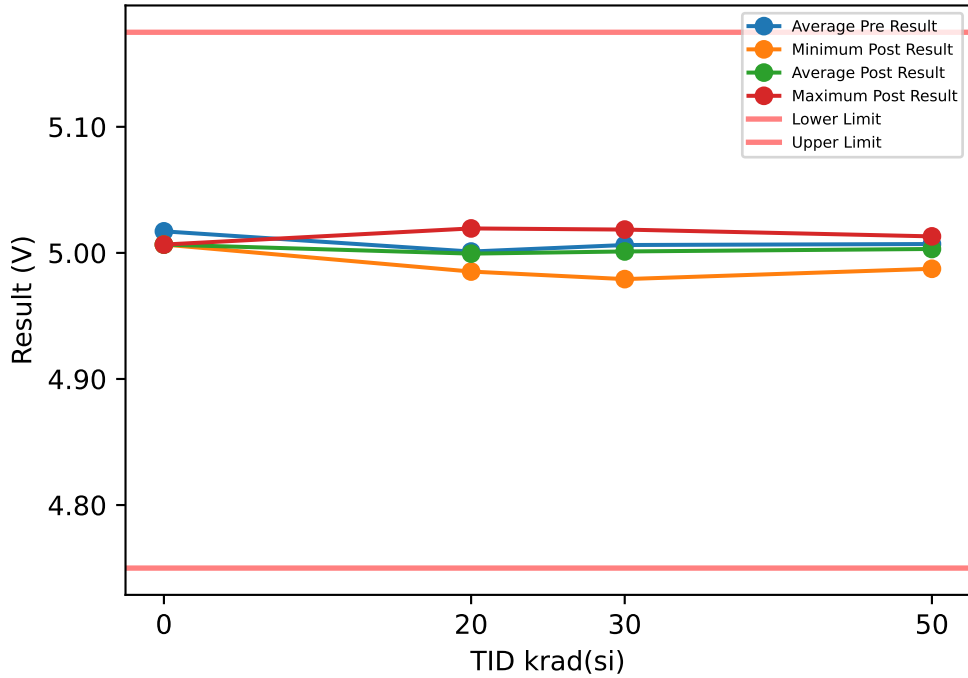


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0486 | 7.0486 | 7.0486 | | 7.0269 | 7.0269 | 7.0269 | | -0.0217 | -0.0217 | -0.0217 | |
| 20 | 7.0007 | 7.037 | 7.0664 | 0.025044 | 6.9978 | 7.0342 | 7.0623 | 0.026144 | -0.0258 | -0.00277 | 0.0282 | 0.013025 |
| 30 | 6.9838 | 7.0299 | 7.0838 | 0.033694 | 6.984 | 7.0245 | 7.082 | 0.033116 | -0.0535 | -0.0054 | 0.0254 | 0.019647 |
| 50 | 6.9663 | 7.0362 | 7.1396 | 0.047292 | 6.9618 | 7.0318 | 7.1304 | 0.046754 | -0.0137 | -0.00442 | 0.0061 | 0.005477 |

Device Test: 61.4 V_BP5L(_V_BP5L PWM 1MHz VIN_12V)

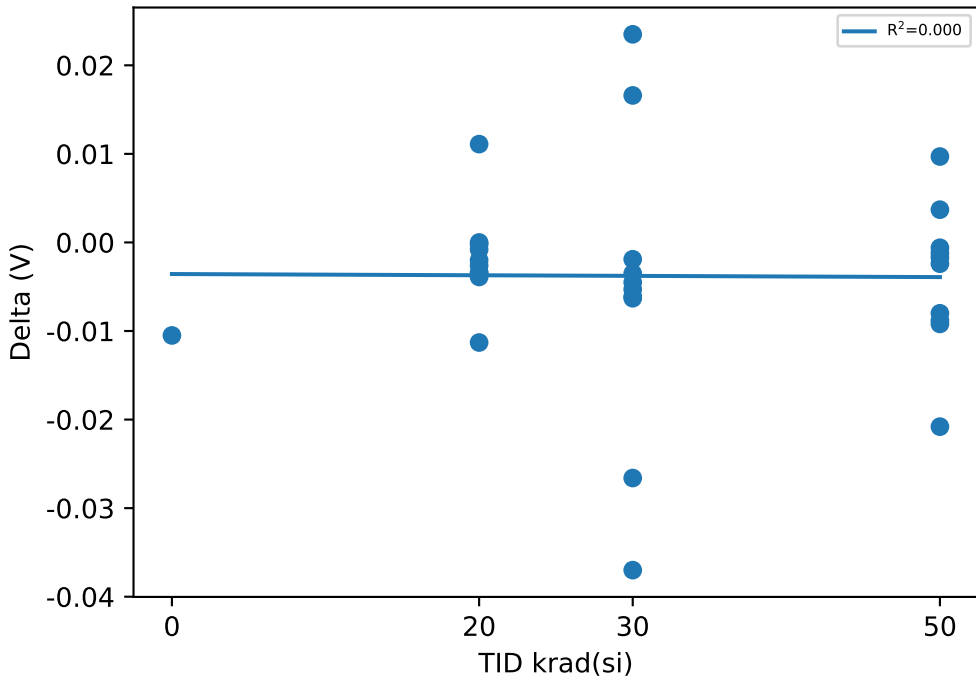
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0171 | 5.0066 | -0.0105 |
| 321 | 20 | HDR unbiased | 4.9901 | 4.9901 | 0 |
| 322 | 20 | HDR unbiased | 5.0166 | 5.0146 | -0.002 |
| 323 | 20 | HDR unbiased | 4.9975 | 4.9973 | -0.0002 |
| 324 | 20 | HDR unbiased | 4.9952 | 4.9918 | -0.0034 |
| 325 | 20 | HDR unbiased | 5.0033 | 4.9994 | -0.0039 |
| 331 | 30 | HDR unbiased | 5 | 4.9947 | -0.0053 |
| 332 | 30 | HDR unbiased | 5.0012 | 4.9967 | -0.0045 |
| 333 | 30 | HDR unbiased | 5.0149 | 5.0086 | -0.0063 |
| 334 | 30 | HDR unbiased | 4.9973 | 4.9912 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.019 | 5.0171 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0115 | 4.9907 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9966 | 4.9874 | -0.0092 |
| 353 | 50 | HDR unbiased | 4.9942 | 5.0039 | 0.0097 |
| 354 | 50 | HDR unbiased | 5.0119 | 5.0107 | -0.0012 |
| 355 | 50 | HDR unbiased | 5.0188 | 5.01 | -0.0088 |
| 521 | 20 | HDR biased | 5.0229 | 5.0194 | -0.0035 |
| 522 | 20 | HDR biased | 4.9935 | 4.9909 | -0.0026 |
| 523 | 20 | HDR biased | 4.986 | 4.9852 | -0.0008 |
| 524 | 20 | HDR biased | 4.9973 | 5.0084 | 0.0111 |
| 525 | 20 | HDR biased | 5.0083 | 4.997 | -0.0113 |
| 531 | 30 | HDR biased | 5.0058 | 4.9792 | -0.0266 |
| 532 | 30 | HDR biased | 5.0227 | 4.9857 | -0.037 |
| 533 | 30 | HDR biased | 4.9935 | 5.017 | 0.0235 |
| 534 | 30 | HDR biased | 5.022 | 5.0185 | -0.0035 |
| 535 | 30 | HDR biased | 4.9861 | 5.0027 | 0.0166 |
| 551 | 50 | HDR biased | 5.001 | 5.0004 | -0.0006 |
| 552 | 50 | HDR biased | 5.004 | 5.0023 | -0.0017 |
| 553 | 50 | HDR biased | 5.0155 | 5.0131 | -0.0024 |
| 554 | 50 | HDR biased | 5.0163 | 5.0083 | -0.008 |
| 555 | 50 | HDR biased | 5.0006 | 5.0043 | 0.0037 |

TID vs Post - Pre Exposure Delta

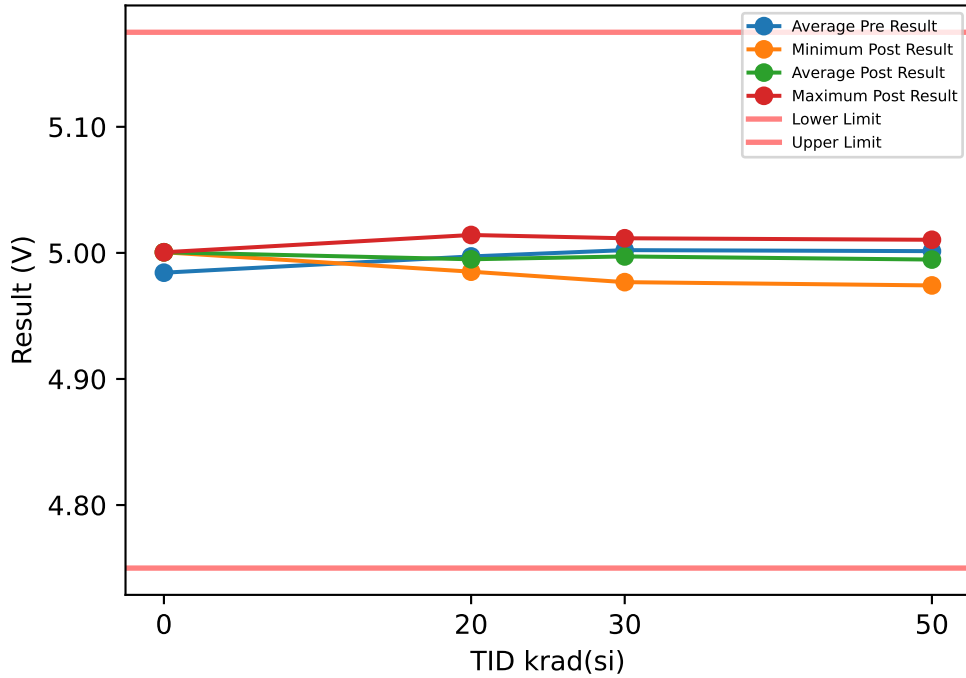


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0171 | 5.0171 | 5.0171 | | 5.0066 | 5.0066 | 5.0066 | | -0.0105 | -0.0105 | -0.0105 | |
| 20 | 4.986 | 5.0011 | 5.0229 | 0.011743 | 4.9852 | 4.9994 | 5.0194 | 0.011256 | -0.0113 | -0.00166 | 0.0111 | 0.0055157 |
| 30 | 4.9861 | 5.0062 | 5.0227 | 0.012778 | 4.9792 | 5.0011 | 5.0185 | 0.013926 | -0.037 | -0.00511 | 0.0235 | 0.017589 |
| 50 | 4.9942 | 5.007 | 5.0188 | 0.0088203 | 4.9874 | 5.0031 | 5.0131 | 0.0084503 | -0.0208 | -0.00393 | 0.0097 | 0.0083167 |

Device Test: 61.5 V_BP5H(V_BP5H PWM 1MHz VIN_12V)

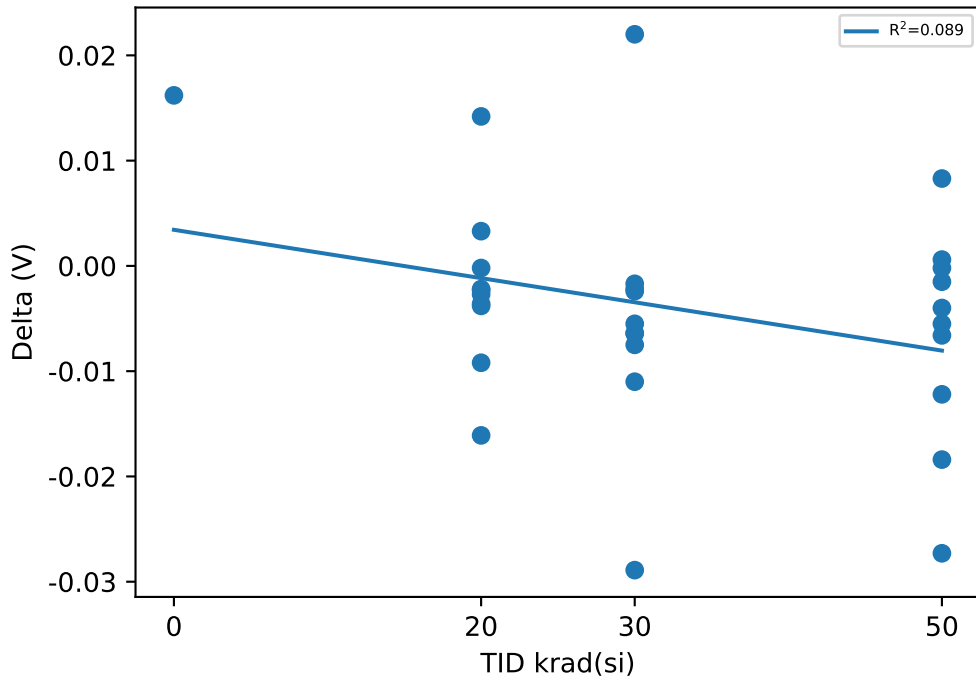
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9843 | 5.0005 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9875 | 4.9873 | -0.0002 |
| 322 | 20 | HDR unbiased | 5.0178 | 5.0142 | -0.0036 |
| 323 | 20 | HDR unbiased | 5.0055 | 4.9963 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.99 | 4.9877 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9903 | 4.9936 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9868 | 4.9813 | -0.0055 |
| 332 | 30 | HDR unbiased | 5.0078 | 5.0054 | -0.0024 |
| 333 | 30 | HDR unbiased | 5.018 | 5.0116 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9867 | 4.985 | -0.0017 |
| 335 | 30 | HDR unbiased | 4.9843 | 4.9768 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9926 | 4.9742 | -0.0184 |
| 352 | 50 | HDR unbiased | 5.0028 | 4.9906 | -0.0122 |
| 353 | 50 | HDR unbiased | 4.9847 | 4.9845 | -0.0002 |
| 354 | 50 | HDR unbiased | 4.9974 | 5.0057 | 0.0083 |
| 355 | 50 | HDR unbiased | 5.0144 | 4.9871 | -0.0273 |
| 521 | 20 | HDR biased | 4.9889 | 4.9851 | -0.0038 |
| 522 | 20 | HDR biased | 5.0065 | 5.0043 | -0.0022 |
| 523 | 20 | HDR biased | 4.9934 | 4.9907 | -0.0027 |
| 524 | 20 | HDR biased | 4.9897 | 5.0039 | 0.0142 |
| 525 | 20 | HDR biased | 5.0023 | 4.9862 | -0.0161 |
| 531 | 30 | HDR biased | 5.013 | 5.0066 | -0.0064 |
| 532 | 30 | HDR biased | 5.0111 | 4.9822 | -0.0289 |
| 533 | 30 | HDR biased | 4.9855 | 5.0075 | 0.022 |
| 534 | 30 | HDR biased | 5.0179 | 5.0069 | -0.011 |
| 535 | 30 | HDR biased | 5.0108 | 5.0086 | -0.0022 |
| 551 | 50 | HDR biased | 4.9895 | 4.984 | -0.0055 |
| 552 | 50 | HDR biased | 5.0066 | 5 | -0.0066 |
| 553 | 50 | HDR biased | 5.0051 | 5.0036 | -0.0015 |
| 554 | 50 | HDR biased | 5.0064 | 5.007 | 0.0006 |
| 555 | 50 | HDR biased | 5.0144 | 5.0104 | -0.004 |

TID vs Post - Pre Exposure Delta

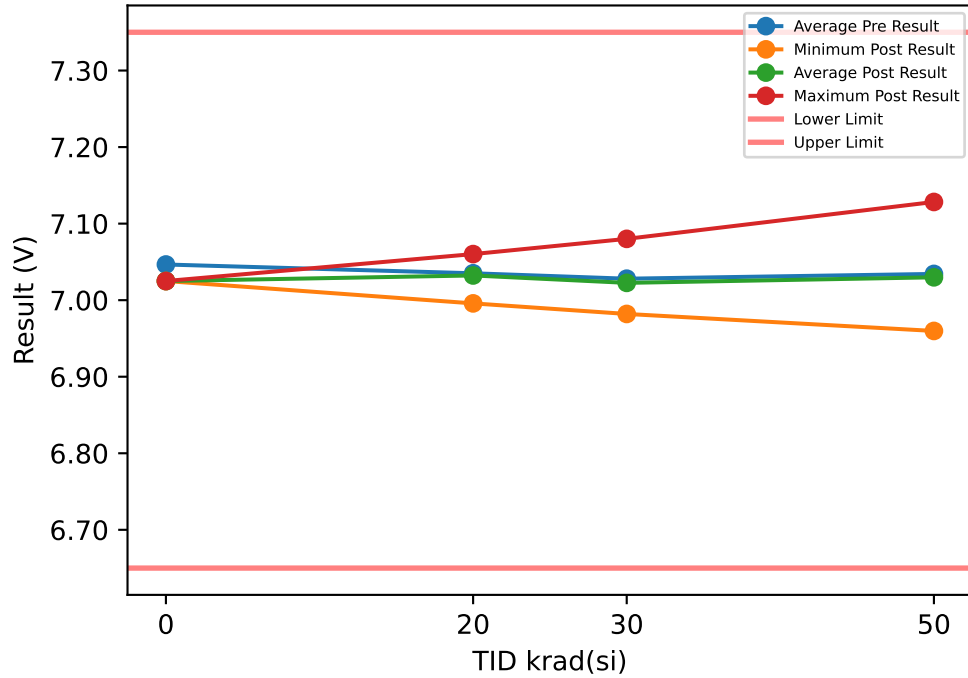


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9843 | 4.9843 | 4.9843 | | 5.0005 | 5.0005 | 5.0005 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9875 | 4.9972 | 5.0178 | 0.010214 | 4.9851 | 4.9949 | 5.0142 | 0.0096865 | -0.0161 | -0.00226 | 0.0142 | 0.0078185 |
| 30 | 4.9843 | 5.0022 | 5.018 | 0.01443 | 4.9768 | 4.9972 | 5.0116 | 0.013888 | -0.0289 | -0.005 | 0.022 | 0.012347 |
| 50 | 4.9847 | 5.0014 | 5.0144 | 0.010108 | 4.9742 | 4.9947 | 5.0104 | 0.012199 | -0.0273 | -0.00668 | 0.0083 | 0.010262 |

Device Test: 61.6 V_BP7L(_V_BP7L PWM 2MHz VIN_12V)

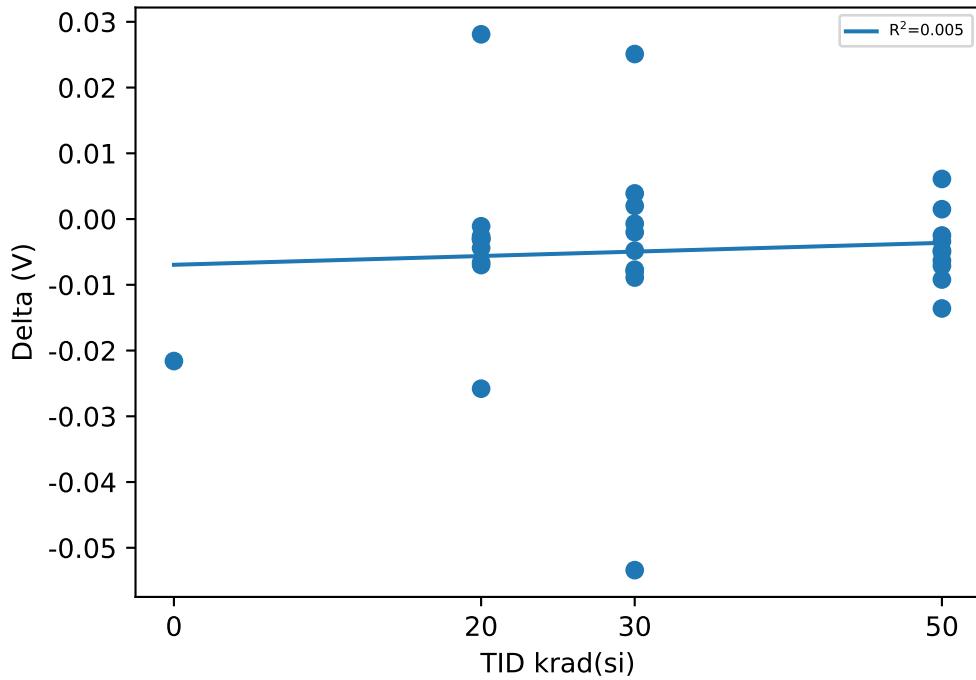
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0466 | 7.025 | -0.0216 |
| 321 | 20 | HDR unbiased | 7.0646 | 7.0602 | -0.0044 |
| 322 | 20 | HDR unbiased | 7.0571 | 7.0541 | -0.003 |
| 323 | 20 | HDR unbiased | 7.0085 | 7.0015 | -0.007 |
| 324 | 20 | HDR unbiased | 7.0252 | 7.0221 | -0.0031 |
| 325 | 20 | HDR unbiased | 7.0602 | 7.0576 | -0.0026 |
| 331 | 30 | HDR unbiased | 7.0033 | 6.9985 | -0.0048 |
| 332 | 30 | HDR unbiased | 6.9909 | 6.982 | -0.0089 |
| 333 | 30 | HDR unbiased | 7.0241 | 7.0164 | -0.0077 |
| 334 | 30 | HDR unbiased | 7.0176 | 7.0215 | 0.0039 |
| 335 | 30 | HDR unbiased | 6.9822 | 6.9842 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0022 | 7.0083 | 0.0061 |
| 352 | 50 | HDR unbiased | 6.9646 | 6.9598 | -0.0048 |
| 353 | 50 | HDR unbiased | 7.0118 | 6.9982 | -0.0136 |
| 354 | 50 | HDR unbiased | 7.0657 | 7.0623 | -0.0034 |
| 355 | 50 | HDR unbiased | 7.0636 | 7.0651 | 0.0015 |
| 521 | 20 | HDR biased | 7.0056 | 6.999 | -0.0066 |
| 522 | 20 | HDR biased | 7.0492 | 7.0481 | -0.0011 |
| 523 | 20 | HDR biased | 6.9988 | 6.9958 | -0.003 |
| 524 | 20 | HDR biased | 7.0555 | 7.0297 | -0.0258 |
| 525 | 20 | HDR biased | 7.0266 | 7.0547 | 0.0281 |
| 531 | 30 | HDR biased | 7.0596 | 7.0516 | -0.008 |
| 532 | 30 | HDR biased | 7.0073 | 7.0324 | 0.0251 |
| 533 | 30 | HDR biased | 7.0533 | 6.9999 | -0.0534 |
| 534 | 30 | HDR biased | 7.0821 | 7.0801 | -0.002 |
| 535 | 30 | HDR biased | 7.0602 | 7.0595 | -0.0007 |
| 551 | 50 | HDR biased | 7.0205 | 7.018 | -0.0025 |
| 552 | 50 | HDR biased | 7.0467 | 7.0417 | -0.005 |
| 553 | 50 | HDR biased | 7.0221 | 7.015 | -0.0071 |
| 554 | 50 | HDR biased | 7.0082 | 7.0019 | -0.0063 |
| 555 | 50 | HDR biased | 7.1375 | 7.1283 | -0.0092 |

TID vs Post - Pre Exposure Delta

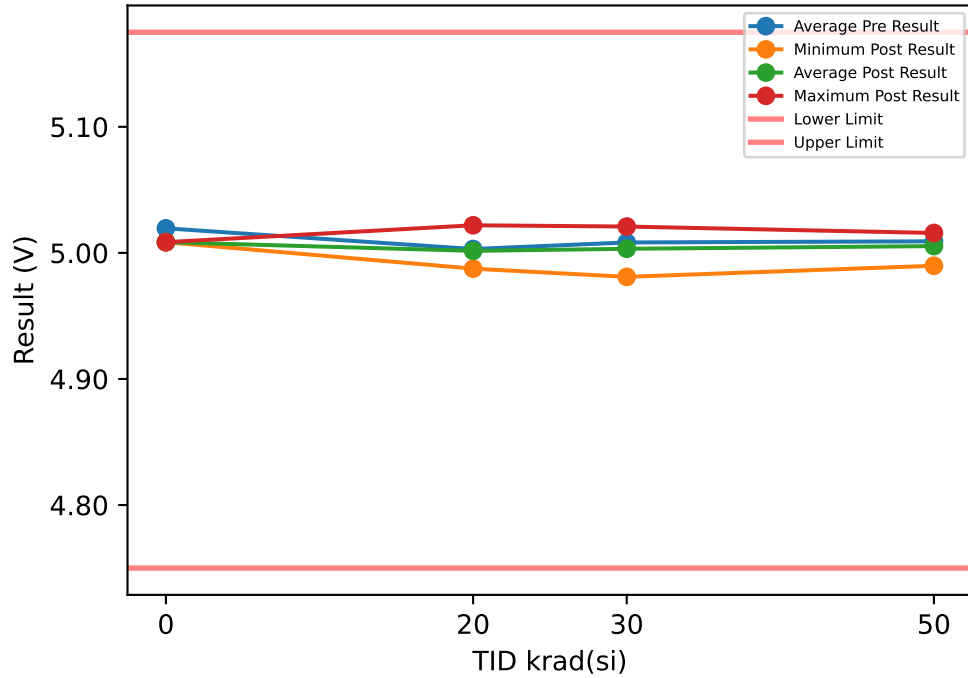


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0466 | 7.0466 | 7.0466 | | 7.025 | 7.025 | 7.025 | | -0.0216 | -0.0216 | -0.0216 | |
| 20 | 6.9988 | 7.0351 | 7.0646 | 0.025089 | 6.9958 | 7.0323 | 7.0602 | 0.026132 | -0.0258 | -0.00285 | 0.0281 | 0.013002 |
| 30 | 6.9822 | 7.0281 | 7.0821 | 0.033728 | 6.982 | 7.0226 | 7.0801 | 0.033105 | -0.0534 | -0.00545 | 0.0251 | 0.019533 |
| 50 | 6.9646 | 7.0343 | 7.1375 | 0.047215 | 6.9598 | 7.0299 | 7.1283 | 0.046719 | -0.0136 | -0.00443 | 0.0061 | 0.0054646 |

Device Test: 61.7 V_BP5L(_V_BP5L PWM 2MHz VIN_12V)

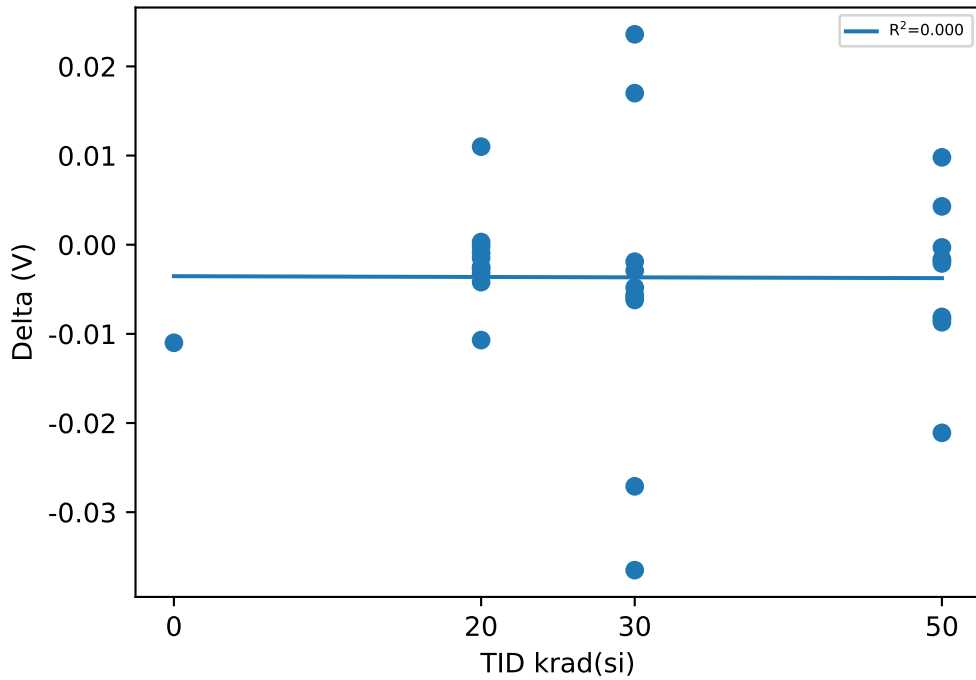
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0195 | 5.0085 | -0.011 |
| 321 | 20 | HDR unbiased | 4.992 | 4.9923 | 0.0003 |
| 322 | 20 | HDR unbiased | 5.0184 | 5.0169 | -0.0015 |
| 323 | 20 | HDR unbiased | 4.9998 | 4.9996 | -0.0002 |
| 324 | 20 | HDR unbiased | 4.997 | 4.9938 | -0.0032 |
| 325 | 20 | HDR unbiased | 5.0058 | 5.0016 | -0.0042 |
| 331 | 30 | HDR unbiased | 5.0021 | 4.9965 | -0.0056 |
| 332 | 30 | HDR unbiased | 5.0035 | 4.9987 | -0.0048 |
| 333 | 30 | HDR unbiased | 5.0173 | 5.0111 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9989 | 4.993 | -0.0059 |
| 335 | 30 | HDR unbiased | 5.021 | 5.0191 | -0.0019 |
| 351 | 50 | HDR unbiased | 5.0137 | 4.9926 | -0.0211 |
| 352 | 50 | HDR unbiased | 4.9985 | 4.9898 | -0.0087 |
| 353 | 50 | HDR unbiased | 4.996 | 5.0058 | 0.0098 |
| 354 | 50 | HDR unbiased | 5.0146 | 5.0128 | -0.0018 |
| 355 | 50 | HDR unbiased | 5.0208 | 5.0127 | -0.0081 |
| 521 | 20 | HDR biased | 5.0246 | 5.0219 | -0.0027 |
| 522 | 20 | HDR biased | 4.9954 | 4.9929 | -0.0025 |
| 523 | 20 | HDR biased | 4.9884 | 4.9875 | -0.0009 |
| 524 | 20 | HDR biased | 4.9994 | 5.0104 | 0.011 |
| 525 | 20 | HDR biased | 5.01 | 4.9993 | -0.0107 |
| 531 | 30 | HDR biased | 5.0081 | 4.981 | -0.0271 |
| 532 | 30 | HDR biased | 5.0249 | 4.9884 | -0.0365 |
| 533 | 30 | HDR biased | 4.9952 | 5.0188 | 0.0236 |
| 534 | 30 | HDR biased | 5.0238 | 5.0209 | -0.0029 |
| 535 | 30 | HDR biased | 4.988 | 5.005 | 0.017 |
| 551 | 50 | HDR biased | 5.0028 | 5.0025 | -0.0003 |
| 552 | 50 | HDR biased | 5.0063 | 5.0042 | -0.0021 |
| 553 | 50 | HDR biased | 5.0174 | 5.0158 | -0.0016 |
| 554 | 50 | HDR biased | 5.0187 | 5.0104 | -0.0083 |
| 555 | 50 | HDR biased | 5.003 | 5.0073 | 0.0043 |

TID vs Post - Pre Exposure Delta

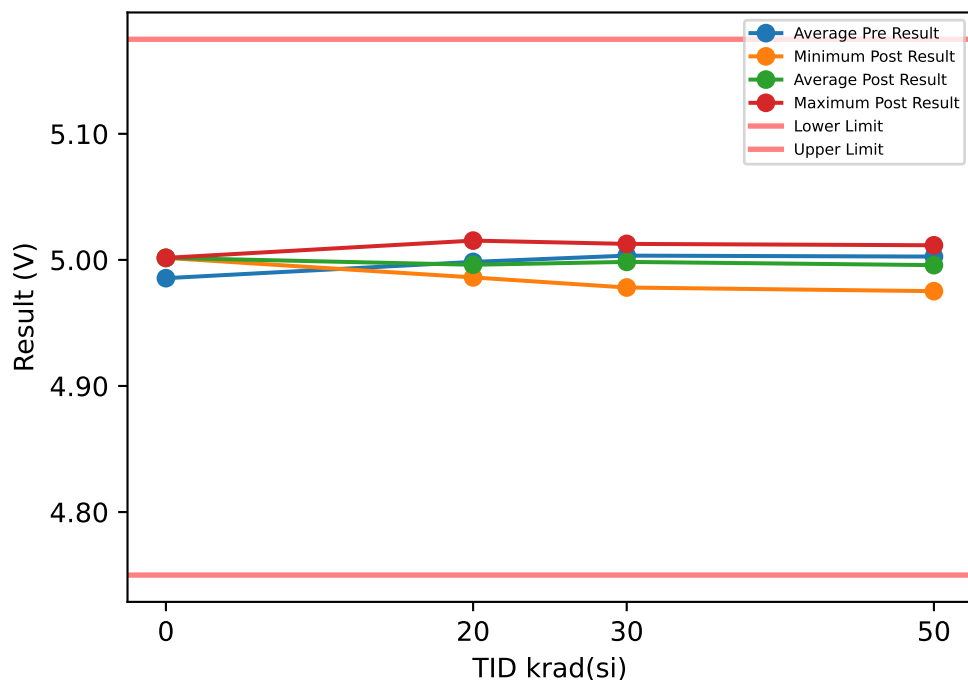


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0195 | 5.0195 | 5.0195 | | 5.0085 | 5.0085 | 5.0085 | | -0.011 | -0.011 | -0.011 | |
| 20 | 4.9884 | 5.0031 | 5.0246 | 0.011603 | 4.9875 | 5.0016 | 5.0219 | 0.011327 | -0.0107 | -0.00146 | 0.011 | 0.0053623 |
| 30 | 4.988 | 5.0083 | 5.0249 | 0.012874 | 4.981 | 5.0032 | 5.0209 | 0.013969 | -0.0365 | -0.00503 | 0.0236 | 0.017636 |
| 50 | 4.996 | 5.0092 | 5.0208 | 0.0089318 | 4.9898 | 5.0054 | 5.0158 | 0.0085766 | -0.0211 | -0.00379 | 0.0098 | 0.0084102 |

Device Test: 61.8 V_BP5H(_BP5H PWM 2MHz VIN_12V)

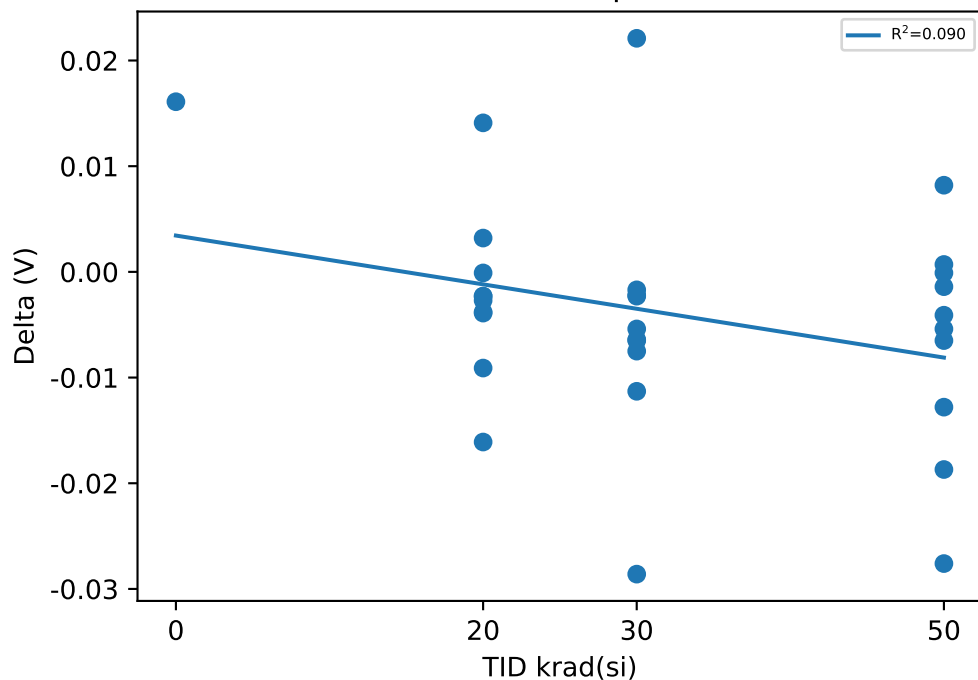
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9855 | 5.0016 | 0.0161 |
| 321 | 20 | HDR unbiased | 4.9887 | 4.9886 | -0.0001 |
| 322 | 20 | HDR unbiased | 5.0191 | 5.0153 | -0.0038 |
| 323 | 20 | HDR unbiased | 5.0067 | 4.9976 | -0.0091 |
| 324 | 20 | HDR unbiased | 4.9912 | 4.9889 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9916 | 4.9948 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.988 | 4.9826 | -0.0054 |
| 332 | 30 | HDR unbiased | 5.009 | 5.0068 | -0.0022 |
| 333 | 30 | HDR unbiased | 5.0192 | 5.0127 | -0.0065 |
| 334 | 30 | HDR unbiased | 4.988 | 4.9863 | -0.0017 |
| 335 | 30 | HDR unbiased | 4.9856 | 4.9781 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9939 | 4.9752 | -0.0187 |
| 352 | 50 | HDR unbiased | 5.0044 | 4.9916 | -0.0128 |
| 353 | 50 | HDR unbiased | 4.9858 | 4.9857 | -0.0001 |
| 354 | 50 | HDR unbiased | 4.9986 | 5.0068 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0157 | 4.9881 | -0.0276 |
| 521 | 20 | HDR biased | 4.99 | 4.9861 | -0.0039 |
| 522 | 20 | HDR biased | 5.0078 | 5.0055 | -0.0023 |
| 523 | 20 | HDR biased | 4.9946 | 4.9919 | -0.0027 |
| 524 | 20 | HDR biased | 4.9909 | 5.005 | 0.0141 |
| 525 | 20 | HDR biased | 5.0036 | 4.9875 | -0.0161 |
| 531 | 30 | HDR biased | 5.0141 | 5.0077 | -0.0064 |
| 532 | 30 | HDR biased | 5.0122 | 4.9836 | -0.0286 |
| 533 | 30 | HDR biased | 4.9866 | 5.0087 | 0.0221 |
| 534 | 30 | HDR biased | 5.0192 | 5.0079 | -0.0113 |
| 535 | 30 | HDR biased | 5.012 | 5.0097 | -0.0023 |
| 551 | 50 | HDR biased | 4.9905 | 4.9851 | -0.0054 |
| 552 | 50 | HDR biased | 5.0077 | 5.0012 | -0.0065 |
| 553 | 50 | HDR biased | 5.0063 | 5.0049 | -0.0014 |
| 554 | 50 | HDR biased | 5.0076 | 5.0083 | 0.0007 |
| 555 | 50 | HDR biased | 5.0157 | 5.0116 | -0.0041 |

TID vs Post - Pre Exposure Delta

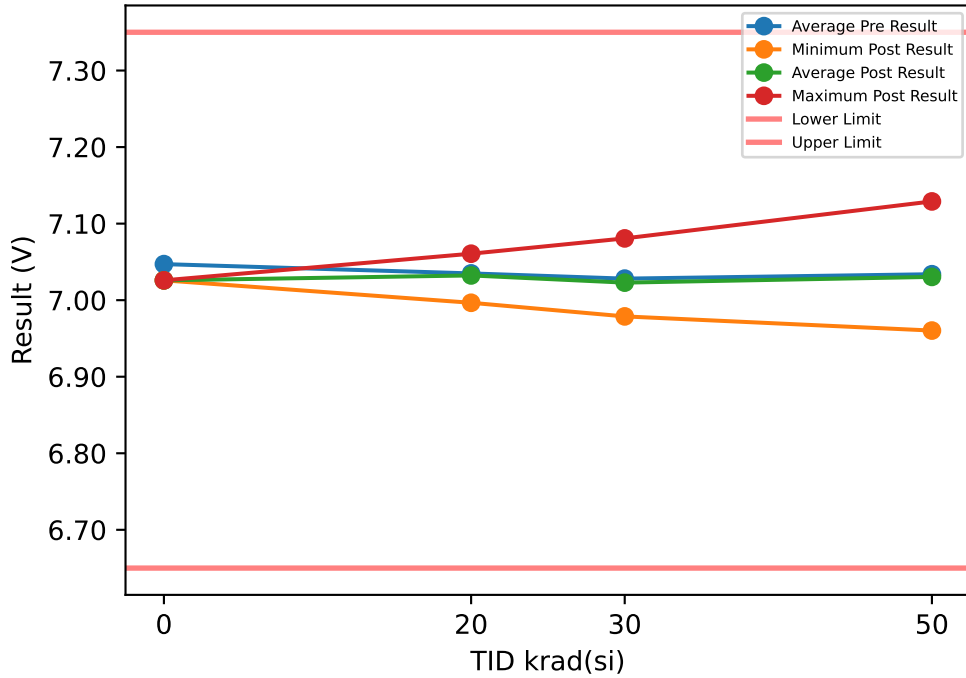


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9855 | 4.9855 | 4.9855 | | 5.0016 | 5.0016 | 5.0016 | | 0.0161 | 0.0161 | 0.0161 | |
| 20 | 4.9887 | 4.9984 | 5.0191 | 0.010253 | 4.9861 | 4.9961 | 5.0153 | 0.00966 | -0.0161 | -0.0023 | 0.0141 | 0.0077867 |
| 30 | 4.9856 | 5.0034 | 5.0192 | 0.014414 | 4.9781 | 4.9984 | 5.0127 | 0.013795 | -0.0286 | -0.00498 | 0.0221 | 0.012327 |
| 50 | 4.9858 | 5.0026 | 5.0157 | 0.010173 | 4.9752 | 4.9958 | 5.0116 | 0.012277 | -0.0276 | -0.00677 | 0.0082 | 0.010408 |

Device Test: 61.9 V_BP7L(_V_BP7L PWM 5MHz VIN_12V)

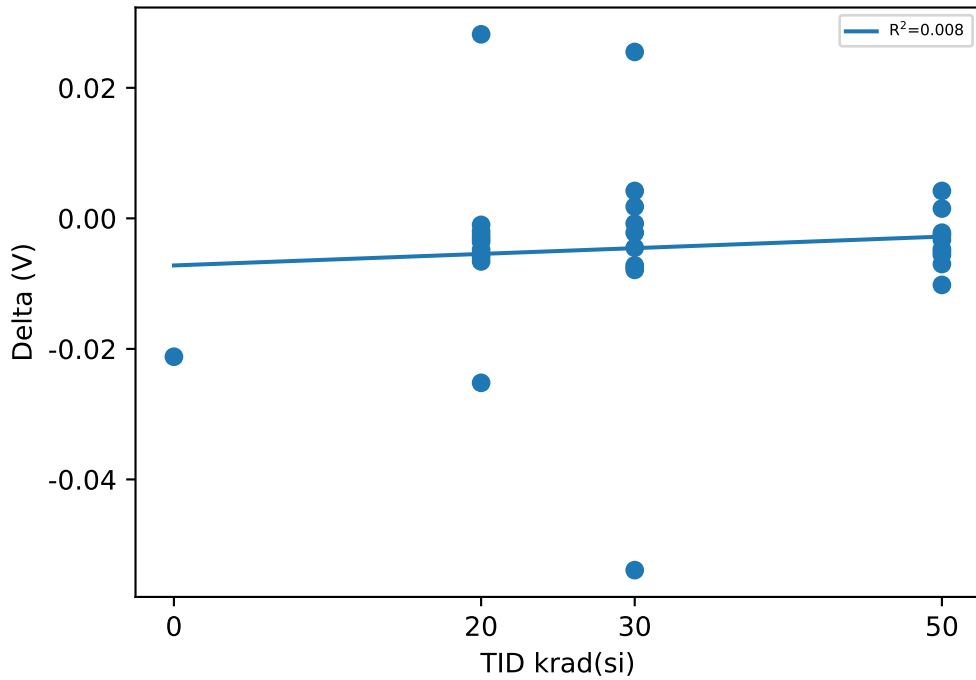
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0471 | 7.0259 | -0.0212 |
| 321 | 20 | HDR unbiased | 7.0655 | 7.0607 | -0.0048 |
| 322 | 20 | HDR unbiased | 7.0578 | 7.0547 | -0.0031 |
| 323 | 20 | HDR unbiased | 7.0055 | 7.0019 | -0.0036 |
| 324 | 20 | HDR unbiased | 7.0224 | 7.0165 | -0.0059 |
| 325 | 20 | HDR unbiased | 7.0604 | 7.0584 | -0.002 |
| 331 | 30 | HDR unbiased | 7.0035 | 6.999 | -0.0045 |
| 332 | 30 | HDR unbiased | 6.986 | 6.9788 | -0.0072 |
| 333 | 30 | HDR unbiased | 7.0244 | 7.0169 | -0.0075 |
| 334 | 30 | HDR unbiased | 7.0185 | 7.0227 | 0.0042 |
| 335 | 30 | HDR unbiased | 6.983 | 6.9848 | 0.0018 |
| 351 | 50 | HDR unbiased | 7.0023 | 7.0065 | 0.0042 |
| 352 | 50 | HDR unbiased | 6.9654 | 6.9603 | -0.0051 |
| 353 | 50 | HDR unbiased | 7.0092 | 6.999 | -0.0102 |
| 354 | 50 | HDR unbiased | 7.0661 | 7.0635 | -0.0026 |
| 355 | 50 | HDR unbiased | 7.0644 | 7.0659 | 0.0015 |
| 521 | 20 | HDR biased | 7.0062 | 6.9996 | -0.0066 |
| 522 | 20 | HDR biased | 7.0498 | 7.0488 | -0.001 |
| 523 | 20 | HDR biased | 6.9992 | 6.9966 | -0.0026 |
| 524 | 20 | HDR biased | 7.0558 | 7.0306 | -0.0252 |
| 525 | 20 | HDR biased | 7.0271 | 7.0553 | 0.0282 |
| 531 | 30 | HDR biased | 7.0604 | 7.0525 | -0.0079 |
| 532 | 30 | HDR biased | 7.0075 | 7.033 | 0.0255 |
| 533 | 30 | HDR biased | 7.0543 | 7.0004 | -0.0539 |
| 534 | 30 | HDR biased | 7.0829 | 7.0807 | -0.0022 |
| 535 | 30 | HDR biased | 7.0611 | 7.0603 | -0.0008 |
| 551 | 50 | HDR biased | 7.0212 | 7.019 | -0.0022 |
| 552 | 50 | HDR biased | 7.047 | 7.0423 | -0.0047 |
| 553 | 50 | HDR biased | 7.0226 | 7.0156 | -0.007 |
| 554 | 50 | HDR biased | 7.0085 | 7.0029 | -0.0056 |
| 555 | 50 | HDR biased | 7.1323 | 7.129 | -0.0033 |

TID vs Post - Pre Exposure Delta

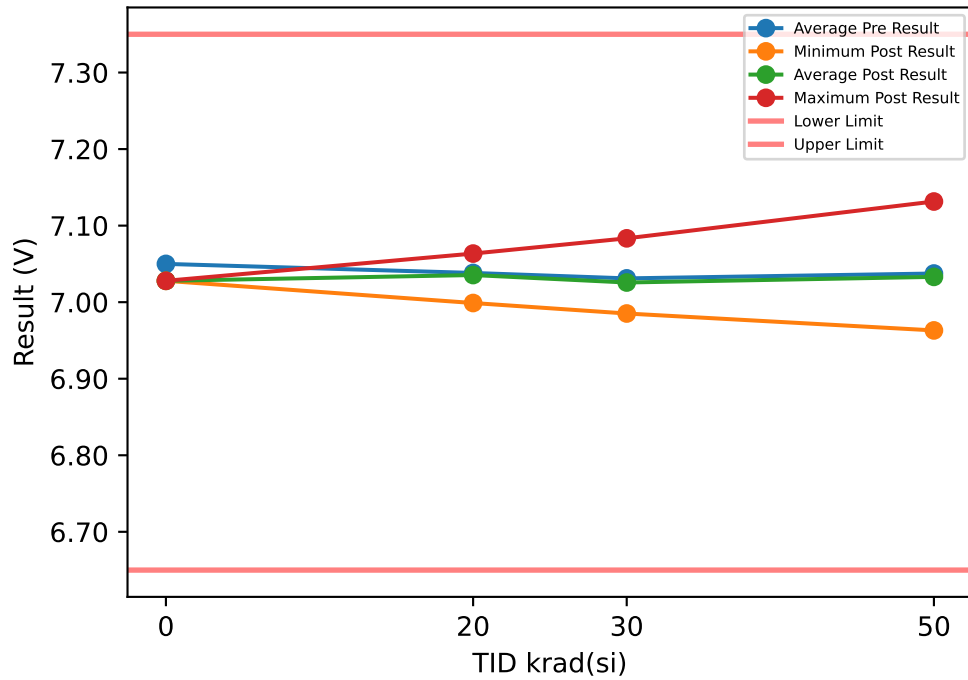


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0471 | 7.0471 | 7.0471 | | 7.0259 | 7.0259 | 7.0259 | | -0.0212 | -0.0212 | -0.0212 | |
| 20 | 6.9992 | 7.035 | 7.0655 | 0.025711 | 6.9966 | 7.0323 | 7.0607 | 0.026481 | -0.0252 | -0.00266 | 0.0282 | 0.01289 |
| 30 | 6.983 | 7.0282 | 7.0829 | 0.034582 | 6.9788 | 7.0229 | 7.0807 | 0.033711 | -0.0539 | -0.00525 | 0.0255 | 0.019712 |
| 50 | 6.9654 | 7.0339 | 7.1323 | 0.046015 | 6.9603 | 7.0304 | 7.129 | 0.046899 | -0.0102 | -0.0035 | 0.0042 | 0.0041147 |

Device Test: 62.0 V_BP7L(V_BP7L PWM 500kHz VIN_14V)

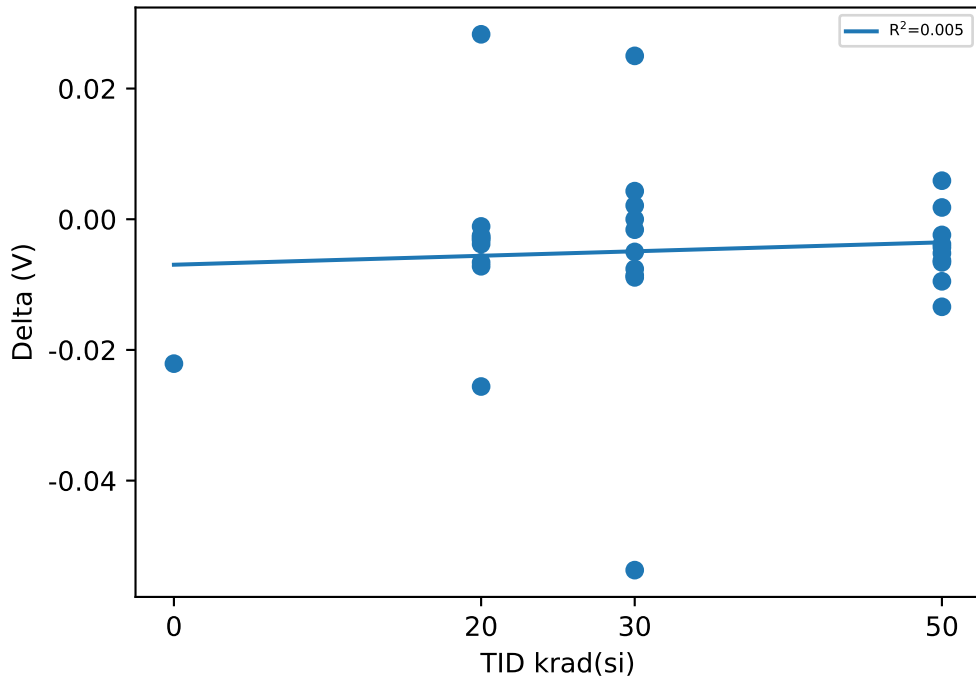
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.05 | 7.0279 | -0.0221 |
| 321 | 20 | HDR unbiased | 7.0673 | 7.0635 | -0.0038 |
| 322 | 20 | HDR unbiased | 7.0599 | 7.0574 | -0.0025 |
| 323 | 20 | HDR unbiased | 7.0119 | 7.0047 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.0281 | 7.0251 | -0.003 |
| 325 | 20 | HDR unbiased | 7.0633 | 7.0606 | -0.0027 |
| 331 | 30 | HDR unbiased | 7.0066 | 7.0016 | -0.005 |
| 332 | 30 | HDR unbiased | 6.9941 | 6.9852 | -0.0089 |
| 333 | 30 | HDR unbiased | 7.0273 | 7.0197 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0203 | 7.0246 | 0.0043 |
| 335 | 30 | HDR unbiased | 6.9849 | 6.987 | 0.0021 |
| 351 | 50 | HDR unbiased | 7.0056 | 7.0115 | 0.0059 |
| 352 | 50 | HDR unbiased | 6.9674 | 6.9631 | -0.0043 |
| 353 | 50 | HDR unbiased | 7.0148 | 7.0014 | -0.0134 |
| 354 | 50 | HDR unbiased | 7.069 | 7.0652 | -0.0038 |
| 355 | 50 | HDR unbiased | 7.0666 | 7.0684 | 0.0018 |
| 521 | 20 | HDR biased | 7.0087 | 7.0021 | -0.0066 |
| 522 | 20 | HDR biased | 7.0523 | 7.0512 | -0.0011 |
| 523 | 20 | HDR biased | 7.0021 | 6.9989 | -0.0032 |
| 524 | 20 | HDR biased | 7.0585 | 7.0329 | -0.0256 |
| 525 | 20 | HDR biased | 7.0297 | 7.058 | 0.0283 |
| 531 | 30 | HDR biased | 7.063 | 7.0544 | -0.0086 |
| 532 | 30 | HDR biased | 7.0105 | 7.0355 | 0.025 |
| 533 | 30 | HDR biased | 7.0564 | 7.0027 | -0.0537 |
| 534 | 30 | HDR biased | 7.085 | 7.0834 | -0.0016 |
| 535 | 30 | HDR biased | 7.0628 | 7.0628 | 0 |
| 551 | 50 | HDR biased | 7.0235 | 7.0211 | -0.0024 |
| 552 | 50 | HDR biased | 7.0501 | 7.0449 | -0.0052 |
| 553 | 50 | HDR biased | 7.025 | 7.0184 | -0.0066 |
| 554 | 50 | HDR biased | 7.0113 | 7.005 | -0.0063 |
| 555 | 50 | HDR biased | 7.141 | 7.1315 | -0.0095 |

TID vs Post - Pre Exposure Delta

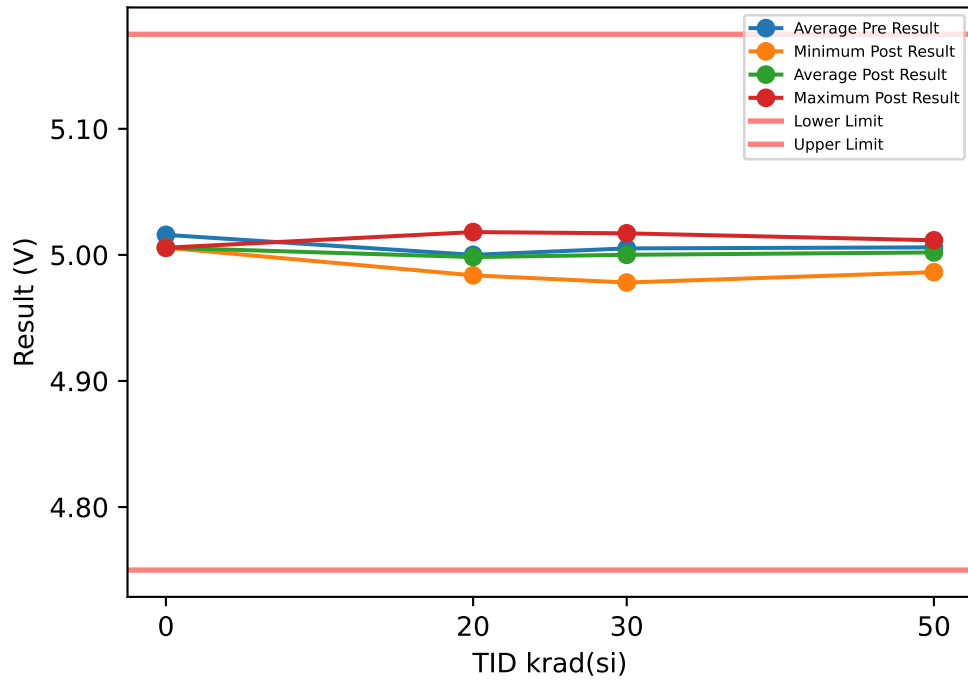


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.05 | 7.05 | 7.05 | | 7.0279 | 7.0279 | 7.0279 | | -0.0221 | -0.0221 | -0.0221 | |
| 20 | 7.0021 | 7.0382 | 7.0673 | 0.02494 | 6.9989 | 7.0354 | 7.0635 | 0.026173 | -0.0256 | -0.00274 | 0.0283 | 0.013017 |
| 30 | 6.9849 | 7.0311 | 7.085 | 0.033709 | 6.9852 | 7.0257 | 7.0834 | 0.033184 | -0.0537 | -0.0054 | 0.025 | 0.01966 |
| 50 | 6.9674 | 7.0374 | 7.141 | 0.04737 | 6.9631 | 7.0331 | 7.1315 | 0.04669 | -0.0134 | -0.00438 | 0.0059 | 0.0054262 |

Device Test: 62.1 V_BP5L(V_BP5L PWM 500kHz VIN_14V)

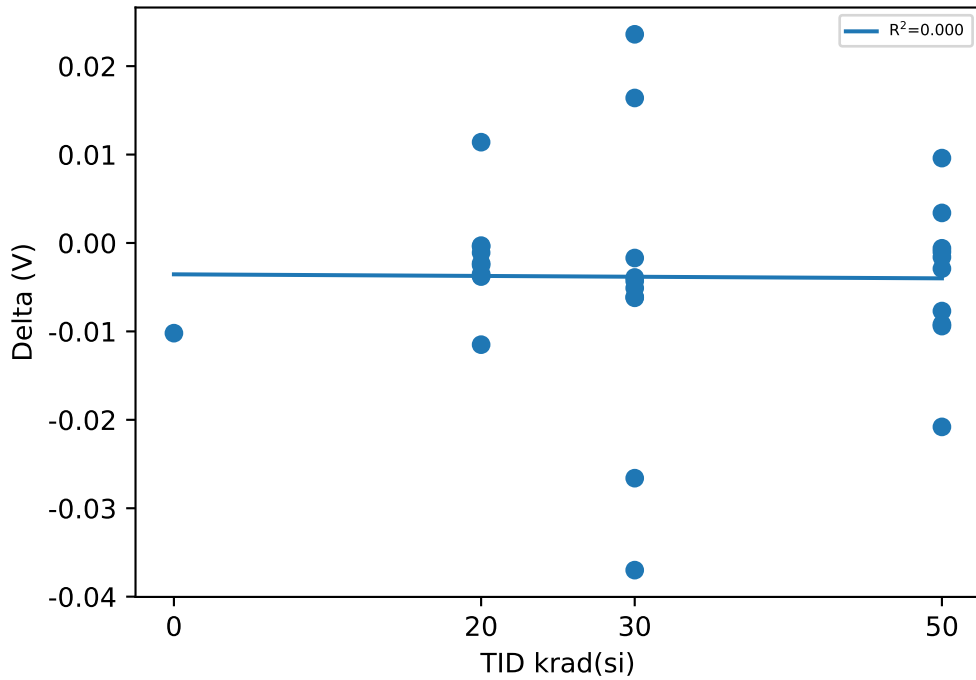
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0159 | 5.0057 | -0.0102 |
| 321 | 20 | HDR unbiased | 4.9892 | 4.9889 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0157 | 5.0134 | -0.0023 |
| 323 | 20 | HDR unbiased | 4.9965 | 4.9961 | -0.0004 |
| 324 | 20 | HDR unbiased | 4.9943 | 4.9908 | -0.0035 |
| 325 | 20 | HDR unbiased | 5.0021 | 4.9983 | -0.0038 |
| 331 | 30 | HDR unbiased | 4.9989 | 4.9938 | -0.0051 |
| 332 | 30 | HDR unbiased | 5 | 4.9957 | -0.0043 |
| 333 | 30 | HDR unbiased | 5.0135 | 5.0074 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9964 | 4.9902 | -0.0062 |
| 335 | 30 | HDR unbiased | 5.0178 | 5.0161 | -0.0017 |
| 351 | 50 | HDR unbiased | 5.0104 | 4.9896 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9957 | 4.9863 | -0.0094 |
| 353 | 50 | HDR unbiased | 4.9933 | 5.0029 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0106 | 5.0096 | -0.001 |
| 355 | 50 | HDR unbiased | 5.0177 | 5.0085 | -0.0092 |
| 521 | 20 | HDR biased | 5.0218 | 5.0181 | -0.0037 |
| 522 | 20 | HDR biased | 4.9925 | 4.99 | -0.0025 |
| 523 | 20 | HDR biased | 4.9849 | 4.9838 | -0.0011 |
| 524 | 20 | HDR biased | 4.9961 | 5.0075 | 0.0114 |
| 525 | 20 | HDR biased | 5.0073 | 4.9958 | -0.0115 |
| 531 | 30 | HDR biased | 5.0047 | 4.9781 | -0.0266 |
| 532 | 30 | HDR biased | 5.0215 | 4.9845 | -0.037 |
| 533 | 30 | HDR biased | 4.9926 | 5.0162 | 0.0236 |
| 534 | 30 | HDR biased | 5.021 | 5.0171 | -0.0039 |
| 535 | 30 | HDR biased | 4.9852 | 5.0016 | 0.0164 |
| 551 | 50 | HDR biased | 5 | 4.9994 | -0.0006 |
| 552 | 50 | HDR biased | 5.0029 | 5.0013 | -0.0016 |
| 553 | 50 | HDR biased | 5.0145 | 5.0116 | -0.0029 |
| 554 | 50 | HDR biased | 5.0151 | 5.0074 | -0.0077 |
| 555 | 50 | HDR biased | 4.9995 | 5.0029 | 0.0034 |

TID vs Post - Pre Exposure Delta

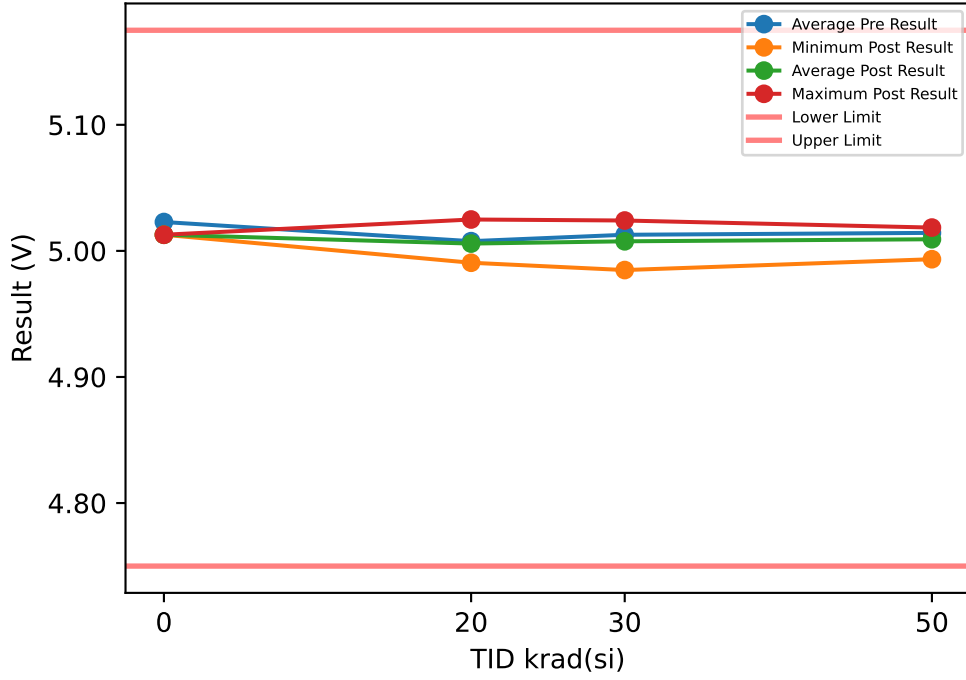


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0159 | 5.0159 | 5.0159 | | 5.0057 | 5.0057 | 5.0057 | | -0.0102 | -0.0102 | -0.0102 | |
| 20 | 4.9849 | 5 | 5.0218 | 0.011739 | 4.9838 | 4.9983 | 5.0181 | 0.011252 | -0.0115 | -0.00177 | 0.0114 | 0.00562 |
| 30 | 4.9852 | 5.0052 | 5.0215 | 0.012676 | 4.9781 | 5.0001 | 5.0171 | 0.013921 | -0.037 | -0.00509 | 0.0236 | 0.01758 |
| 50 | 4.9933 | 5.006 | 5.0177 | 0.0087414 | 4.9863 | 5.0019 | 5.0116 | 0.0083694 | -0.0208 | -0.00402 | 0.0096 | 0.0082958 |

Device Test: 62.10 V_BP5L(_V_BP5L PWM 5MHz VIN_14V)

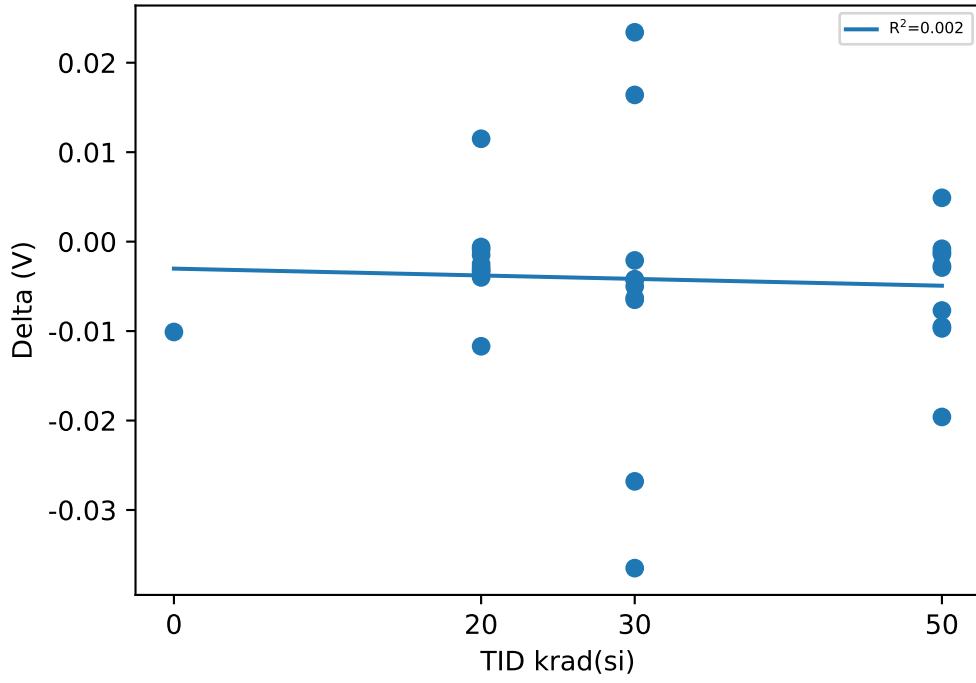
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0229 | 5.0128 | -0.0101 |
| 321 | 20 | HDR unbiased | 4.9968 | 4.9962 | -0.0006 |
| 322 | 20 | HDR unbiased | 5.0233 | 5.0208 | -0.0025 |
| 323 | 20 | HDR unbiased | 5.0047 | 5.0032 | -0.0015 |
| 324 | 20 | HDR unbiased | 5.006 | 5.0028 | -0.0032 |
| 325 | 20 | HDR unbiased | 5.0096 | 5.0062 | -0.0034 |
| 331 | 30 | HDR unbiased | 5.0056 | 5.0006 | -0.005 |
| 332 | 30 | HDR unbiased | 5.0116 | 5.0073 | -0.0043 |
| 333 | 30 | HDR unbiased | 5.021 | 5.0147 | -0.0063 |
| 334 | 30 | HDR unbiased | 5.0039 | 4.9974 | -0.0065 |
| 335 | 30 | HDR unbiased | 5.0262 | 5.0241 | -0.0021 |
| 351 | 50 | HDR unbiased | 5.0173 | 4.9977 | -0.0196 |
| 352 | 50 | HDR unbiased | 5.0031 | 4.9934 | -0.0097 |
| 353 | 50 | HDR unbiased | 5.0047 | 5.0096 | 0.0049 |
| 354 | 50 | HDR unbiased | 5.0184 | 5.0176 | -0.0008 |
| 355 | 50 | HDR unbiased | 5.0259 | 5.0164 | -0.0095 |
| 521 | 20 | HDR biased | 5.0289 | 5.0249 | -0.004 |
| 522 | 20 | HDR biased | 4.9998 | 4.9969 | -0.0029 |
| 523 | 20 | HDR biased | 4.9915 | 4.9906 | -0.0009 |
| 524 | 20 | HDR biased | 5.0025 | 5.014 | 0.0115 |
| 525 | 20 | HDR biased | 5.0141 | 5.0024 | -0.0117 |
| 531 | 30 | HDR biased | 5.0116 | 4.9848 | -0.0268 |
| 532 | 30 | HDR biased | 5.0283 | 4.9918 | -0.0365 |
| 533 | 30 | HDR biased | 4.9995 | 5.0229 | 0.0234 |
| 534 | 30 | HDR biased | 5.0281 | 5.0239 | -0.0042 |
| 535 | 30 | HDR biased | 4.9921 | 5.0085 | 0.0164 |
| 551 | 50 | HDR biased | 5.0071 | 5.0059 | -0.0012 |
| 552 | 50 | HDR biased | 5.0096 | 5.0082 | -0.0014 |
| 553 | 50 | HDR biased | 5.0214 | 5.0185 | -0.0029 |
| 554 | 50 | HDR biased | 5.0219 | 5.0142 | -0.0077 |
| 555 | 50 | HDR biased | 5.0135 | 5.0108 | -0.0027 |

TID vs Post - Pre Exposure Delta

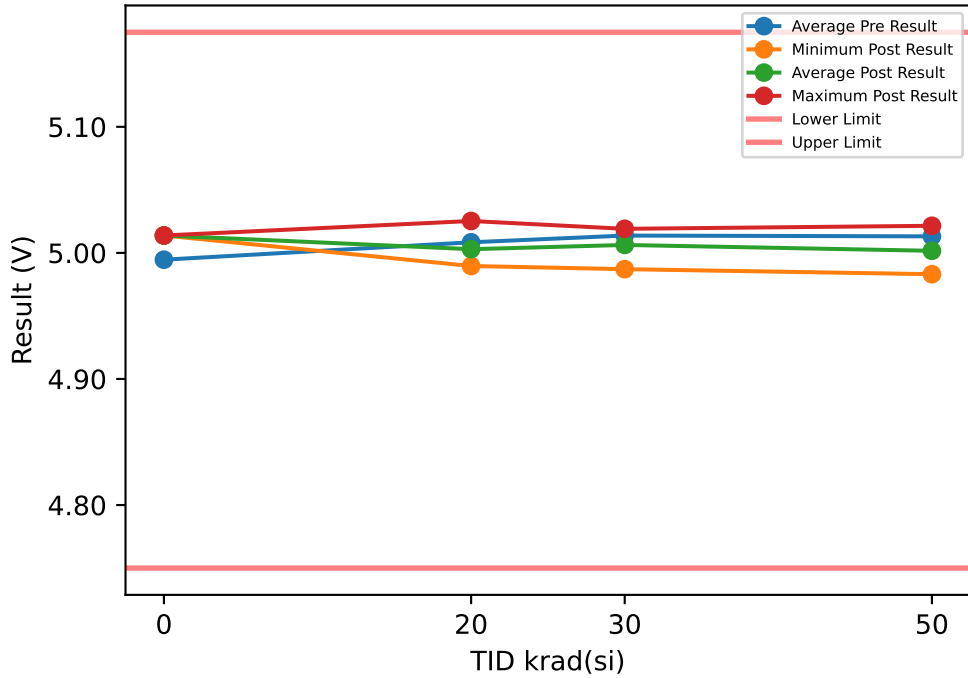


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0229 | 5.0229 | 5.0229 | | 5.0128 | 5.0128 | 5.0128 | | -0.0101 | -0.0101 | -0.0101 | |
| 20 | 4.9915 | 5.0077 | 5.0289 | 0.011643 | 4.9906 | 5.0058 | 5.0249 | 0.01099 | -0.0117 | -0.00192 | 0.0115 | 0.0056584 |
| 30 | 4.9921 | 5.0128 | 5.0283 | 0.012739 | 4.9848 | 5.0076 | 5.0241 | 0.013928 | -0.0365 | -0.00519 | 0.0234 | 0.017465 |
| 50 | 5.0031 | 5.0143 | 5.0259 | 0.0078931 | 4.9934 | 5.0092 | 5.0185 | 0.0083691 | -0.0196 | -0.00506 | 0.0049 | 0.0067946 |

Device Test: 62.11 V_BP5H(_V_BP5H PWM 5MHz VIN_14V)

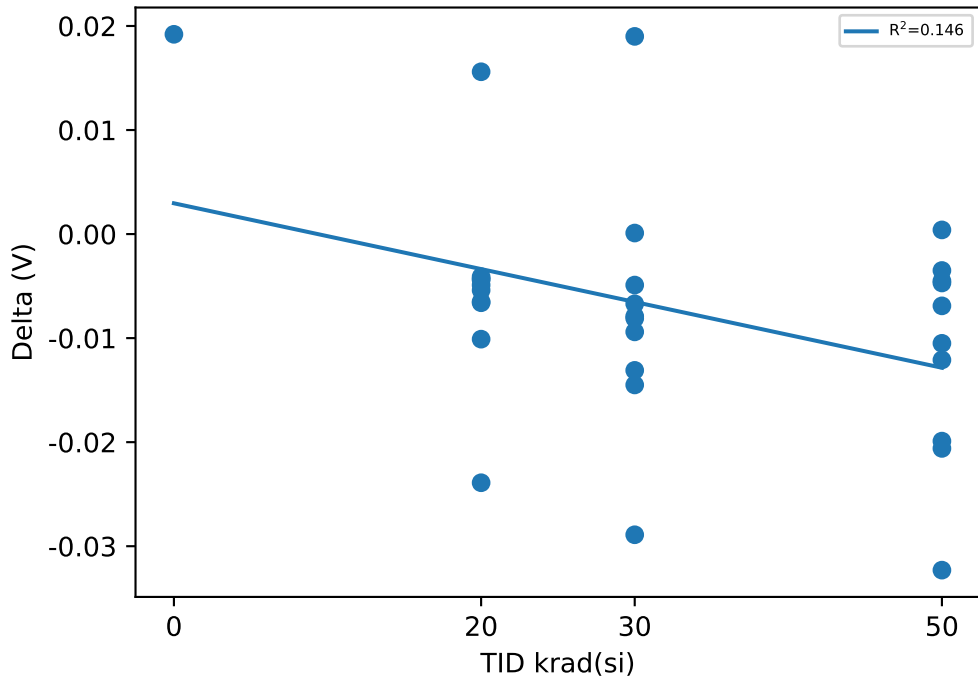
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9946 | 5.0138 | 0.0192 |
| 321 | 20 | HDR unbiased | 4.9999 | 4.9934 | -0.0065 |
| 322 | 20 | HDR unbiased | 5.0302 | 5.0253 | -0.0049 |
| 323 | 20 | HDR unbiased | 5.0168 | 5.0067 | -0.0101 |
| 324 | 20 | HDR unbiased | 5.0022 | 4.9968 | -0.0054 |
| 325 | 20 | HDR unbiased | 5.0013 | 4.9969 | -0.0044 |
| 331 | 30 | HDR unbiased | 4.9976 | 4.9882 | -0.0094 |
| 332 | 30 | HDR unbiased | 5.019 | 5.0191 | 0.0001 |
| 333 | 30 | HDR unbiased | 5.0283 | 5.0152 | -0.0131 |
| 334 | 30 | HDR unbiased | 5 | 4.9933 | -0.0067 |
| 335 | 30 | HDR unbiased | 4.9952 | 4.9871 | -0.0081 |
| 351 | 50 | HDR unbiased | 5.0037 | 4.9831 | -0.0206 |
| 352 | 50 | HDR unbiased | 5.0172 | 4.9973 | -0.0199 |
| 353 | 50 | HDR unbiased | 4.9976 | 4.9871 | -0.0105 |
| 354 | 50 | HDR unbiased | 5.0074 | 5.0078 | 0.0004 |
| 355 | 50 | HDR unbiased | 5.0265 | 4.9942 | -0.0323 |
| 521 | 20 | HDR biased | 4.9991 | 4.9925 | -0.0066 |
| 522 | 20 | HDR biased | 5.0208 | 5.0167 | -0.0041 |
| 523 | 20 | HDR biased | 5.005 | 5.0007 | -0.0043 |
| 524 | 20 | HDR biased | 4.9952 | 5.0108 | 0.0156 |
| 525 | 20 | HDR biased | 5.0135 | 4.9896 | -0.0239 |
| 531 | 30 | HDR biased | 5.023 | 5.0151 | -0.0079 |
| 532 | 30 | HDR biased | 5.0219 | 4.993 | -0.0289 |
| 533 | 30 | HDR biased | 4.9981 | 5.0171 | 0.019 |
| 534 | 30 | HDR biased | 5.0309 | 5.0164 | -0.0145 |
| 535 | 30 | HDR biased | 5.0234 | 5.0185 | -0.0049 |
| 551 | 50 | HDR biased | 5.0019 | 4.9898 | -0.0121 |
| 552 | 50 | HDR biased | 5.0177 | 5.013 | -0.0047 |
| 553 | 50 | HDR biased | 5.0176 | 5.0107 | -0.0069 |
| 554 | 50 | HDR biased | 5.0166 | 5.0121 | -0.0045 |
| 555 | 50 | HDR biased | 5.025 | 5.0215 | -0.0035 |

TID vs Post - Pre Exposure Delta

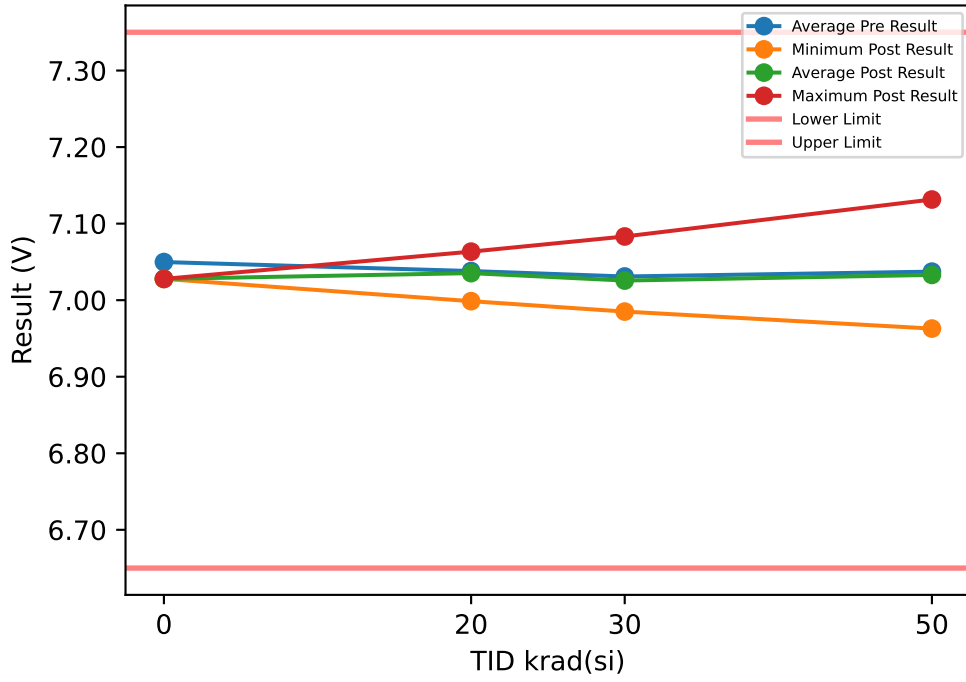


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9946 | 4.9946 | 4.9946 | | 5.0138 | 5.0138 | 5.0138 | | 0.0192 | 0.0192 | 0.0192 | |
| 20 | 4.9952 | 5.0084 | 5.0302 | 0.011348 | 4.9896 | 5.0029 | 5.0253 | 0.011654 | -0.0239 | -0.00546 | 0.0156 | 0.0094991 |
| 30 | 4.9952 | 5.0137 | 5.0309 | 0.01421 | 4.9871 | 5.0063 | 5.0191 | 0.013865 | -0.0289 | -0.00744 | 0.019 | 0.012064 |
| 50 | 4.9976 | 5.0131 | 5.0265 | 0.009878 | 4.9831 | 5.0017 | 5.0215 | 0.013006 | -0.0323 | -0.01146 | 0.0004 | 0.010052 |

Device Test: 62.12 V_BP7L(_V_BP7L IIM 500kHz VIN_14V)

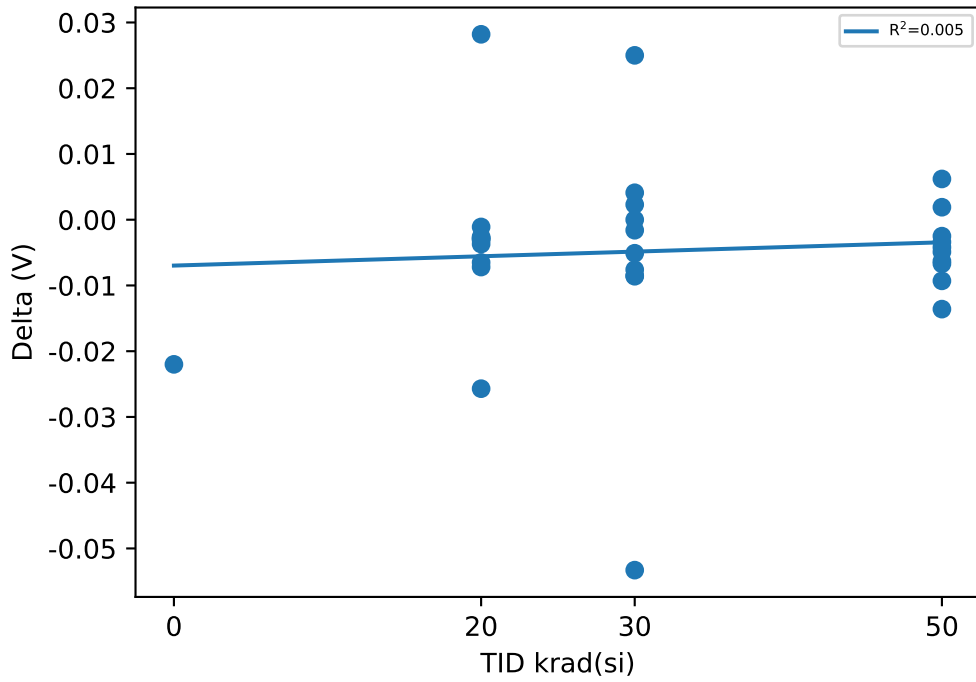
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0498 | 7.0278 | -0.022 |
| 321 | 20 | HDR unbiased | 7.0671 | 7.0634 | -0.0037 |
| 322 | 20 | HDR unbiased | 7.0599 | 7.0573 | -0.0026 |
| 323 | 20 | HDR unbiased | 7.0118 | 7.0046 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.028 | 7.0251 | -0.0029 |
| 325 | 20 | HDR unbiased | 7.0632 | 7.0604 | -0.0028 |
| 331 | 30 | HDR unbiased | 7.0065 | 7.0014 | -0.0051 |
| 332 | 30 | HDR unbiased | 6.9937 | 6.9851 | -0.0086 |
| 333 | 30 | HDR unbiased | 7.0272 | 7.0196 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0204 | 7.0245 | 0.0041 |
| 335 | 30 | HDR unbiased | 6.9847 | 6.987 | 0.0023 |
| 351 | 50 | HDR unbiased | 7.0053 | 7.0115 | 0.0062 |
| 352 | 50 | HDR unbiased | 6.9671 | 6.9629 | -0.0042 |
| 353 | 50 | HDR unbiased | 7.0149 | 7.0013 | -0.0136 |
| 354 | 50 | HDR unbiased | 7.0687 | 7.0653 | -0.0034 |
| 355 | 50 | HDR unbiased | 7.0665 | 7.0684 | 0.0019 |
| 521 | 20 | HDR biased | 7.0085 | 7.002 | -0.0065 |
| 522 | 20 | HDR biased | 7.0522 | 7.0511 | -0.0011 |
| 523 | 20 | HDR biased | 7.0018 | 6.9987 | -0.0031 |
| 524 | 20 | HDR biased | 7.0585 | 7.0328 | -0.0257 |
| 525 | 20 | HDR biased | 7.0296 | 7.0578 | 0.0282 |
| 531 | 30 | HDR biased | 7.0629 | 7.0544 | -0.0085 |
| 532 | 30 | HDR biased | 7.0104 | 7.0354 | 0.025 |
| 533 | 30 | HDR biased | 7.0561 | 7.0028 | -0.0533 |
| 534 | 30 | HDR biased | 7.0848 | 7.0832 | -0.0016 |
| 535 | 30 | HDR biased | 7.0627 | 7.0627 | 0 |
| 551 | 50 | HDR biased | 7.0234 | 7.0209 | -0.0025 |
| 552 | 50 | HDR biased | 7.0499 | 7.045 | -0.0049 |
| 553 | 50 | HDR biased | 7.0249 | 7.0182 | -0.0067 |
| 554 | 50 | HDR biased | 7.0112 | 7.0049 | -0.0063 |
| 555 | 50 | HDR biased | 7.1408 | 7.1315 | -0.0093 |

TID vs Post - Pre Exposure Delta

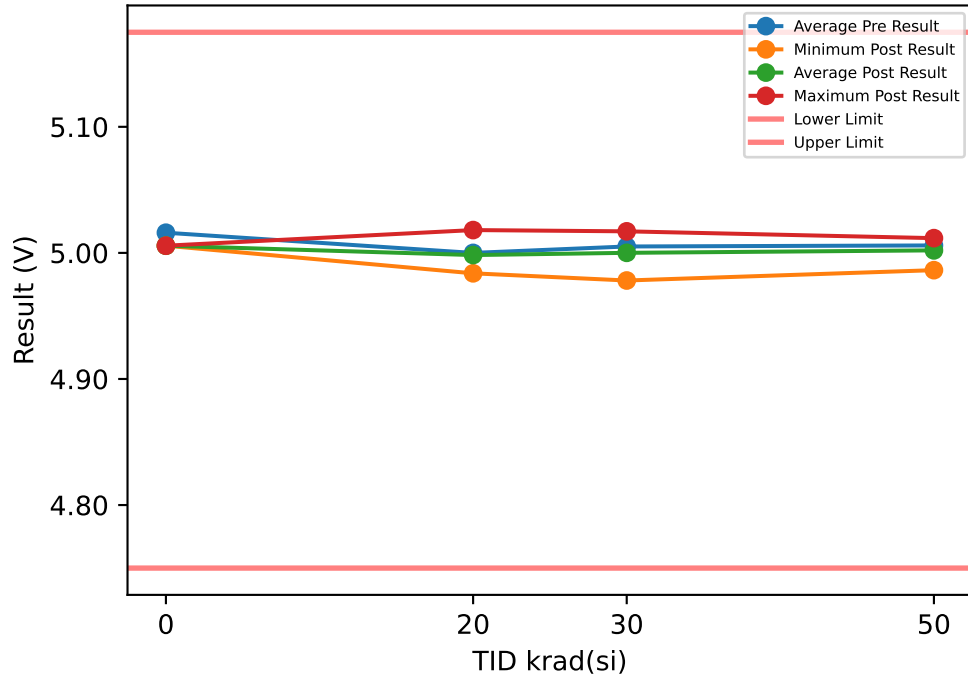


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0498 | 7.0498 | 7.0498 | | 7.0278 | 7.0278 | 7.0278 | | -0.022 | -0.022 | -0.022 | |
| 20 | 7.0018 | 7.0381 | 7.0671 | 0.024991 | 6.9987 | 7.0353 | 7.0634 | 0.026163 | -0.0257 | -0.00274 | 0.0282 | 0.013005 |
| 30 | 6.9847 | 7.0309 | 7.0848 | 0.033372 | 6.9851 | 7.0256 | 7.0832 | 0.033154 | -0.0533 | -0.00533 | 0.025 | 0.01954 |
| 50 | 6.9671 | 7.0373 | 7.1408 | 0.047366 | 6.9629 | 7.033 | 7.1315 | 0.046761 | -0.0136 | -0.00428 | 0.0062 | 0.0055212 |

Device Test: 62.13 V_BP5L(_V_BP5L IIM 500kHz VIN_14V)

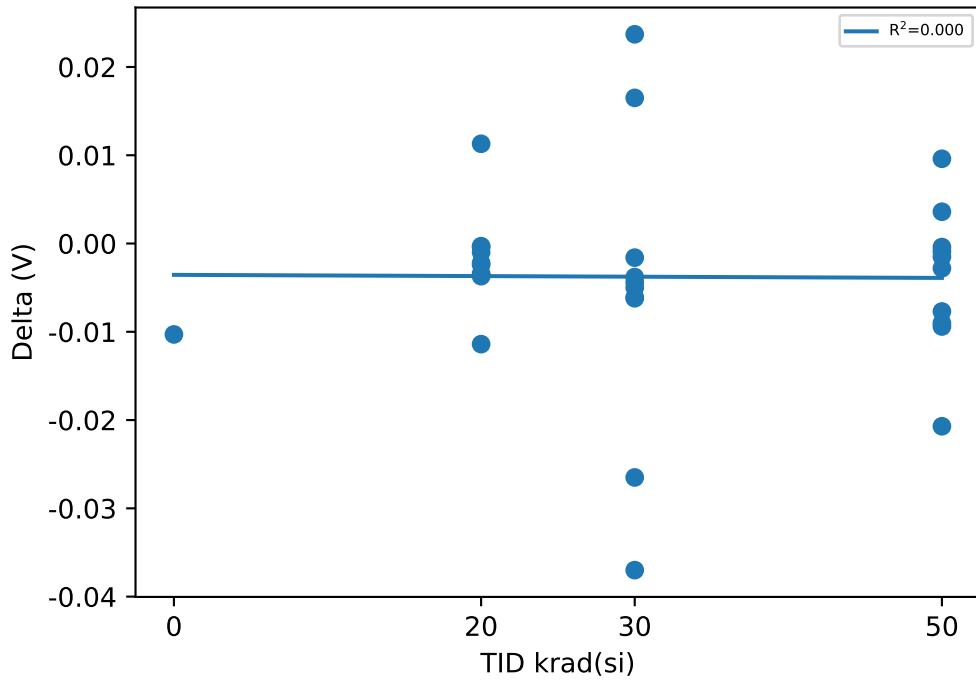
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.016 | 5.0057 | -0.0103 |
| 321 | 20 | HDR unbiased | 4.9892 | 4.9889 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0156 | 5.0134 | -0.0022 |
| 323 | 20 | HDR unbiased | 4.9964 | 4.996 | -0.0004 |
| 324 | 20 | HDR unbiased | 4.9943 | 4.9909 | -0.0034 |
| 325 | 20 | HDR unbiased | 5.002 | 4.9984 | -0.0036 |
| 331 | 30 | HDR unbiased | 4.9988 | 4.9938 | -0.005 |
| 332 | 30 | HDR unbiased | 4.9999 | 4.9955 | -0.0044 |
| 333 | 30 | HDR unbiased | 5.0134 | 5.0073 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9964 | 4.9902 | -0.0062 |
| 335 | 30 | HDR unbiased | 5.0178 | 5.0162 | -0.0016 |
| 351 | 50 | HDR unbiased | 5.0104 | 4.9897 | -0.0207 |
| 352 | 50 | HDR unbiased | 4.9957 | 4.9863 | -0.0094 |
| 353 | 50 | HDR unbiased | 4.9933 | 5.0029 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0105 | 5.0096 | -0.0009 |
| 355 | 50 | HDR unbiased | 5.0177 | 5.0087 | -0.009 |
| 521 | 20 | HDR biased | 5.0218 | 5.0181 | -0.0037 |
| 522 | 20 | HDR biased | 4.9925 | 4.9901 | -0.0024 |
| 523 | 20 | HDR biased | 4.9848 | 4.9838 | -0.001 |
| 524 | 20 | HDR biased | 4.9961 | 5.0074 | 0.0113 |
| 525 | 20 | HDR biased | 5.0072 | 4.9958 | -0.0114 |
| 531 | 30 | HDR biased | 5.0046 | 4.9781 | -0.0265 |
| 532 | 30 | HDR biased | 5.0214 | 4.9844 | -0.037 |
| 533 | 30 | HDR biased | 4.9925 | 5.0162 | 0.0237 |
| 534 | 30 | HDR biased | 5.0209 | 5.0171 | -0.0038 |
| 535 | 30 | HDR biased | 4.9852 | 5.0017 | 0.0165 |
| 551 | 50 | HDR biased | 4.9998 | 4.9994 | -0.0004 |
| 552 | 50 | HDR biased | 5.0028 | 5.0013 | -0.0015 |
| 553 | 50 | HDR biased | 5.0145 | 5.0117 | -0.0028 |
| 554 | 50 | HDR biased | 5.0151 | 5.0074 | -0.0077 |
| 555 | 50 | HDR biased | 4.9994 | 5.003 | 0.0036 |

TID vs Post - Pre Exposure Delta

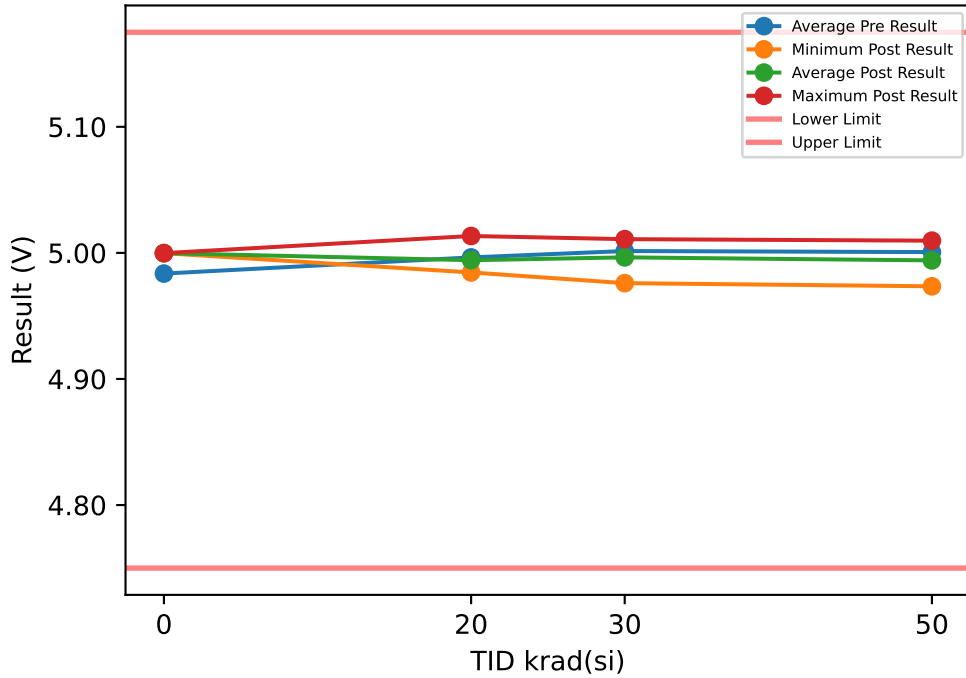


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.016 | 5.016 | 5.016 | | 5.0057 | 5.0057 | 5.0057 | | -0.0103 | -0.0103 | -0.0103 | |
| 20 | 4.9848 | 5 | 5.0218 | 0.011733 | 4.9838 | 4.9983 | 5.0181 | 0.01123 | -0.0114 | -0.00171 | 0.0113 | 0.0055625 |
| 30 | 4.9852 | 5.0051 | 5.0214 | 0.012662 | 4.9781 | 5 | 5.0171 | 0.013949 | -0.037 | -0.00504 | 0.0237 | 0.017601 |
| 50 | 4.9933 | 5.0059 | 5.0177 | 0.008763 | 4.9863 | 5.002 | 5.0117 | 0.0083848 | -0.0207 | -0.00392 | 0.0096 | 0.0082976 |

Device Test: 62.14 V_BP5H(_BP5H IIM 500kHz VIN_14V)

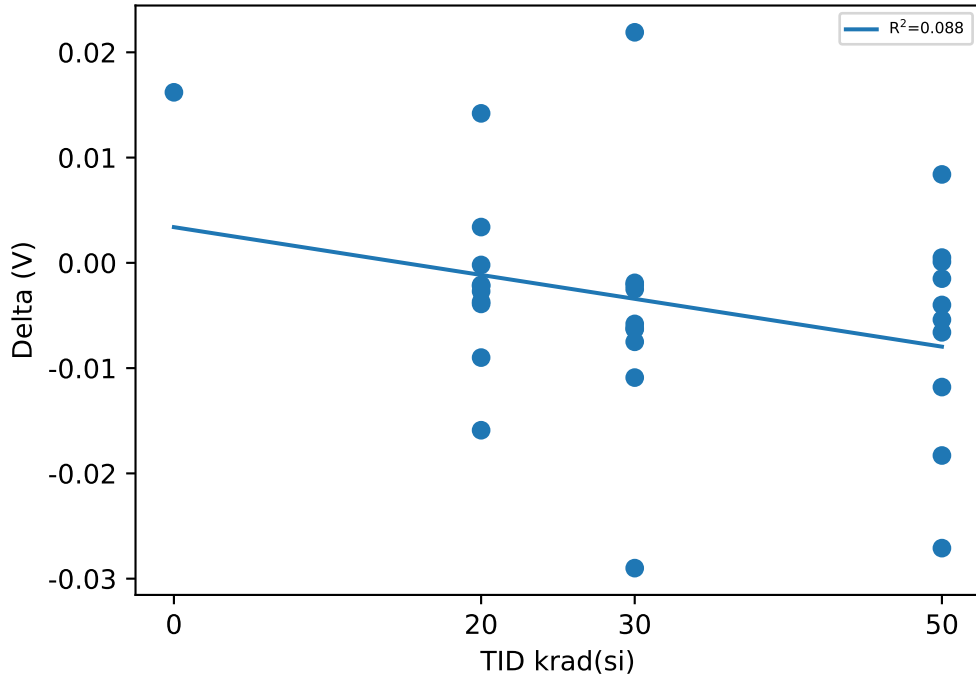
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9836 | 4.9998 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9867 | 4.9865 | -0.0002 |
| 322 | 20 | HDR unbiased | 5.0171 | 5.0134 | -0.0037 |
| 323 | 20 | HDR unbiased | 5.0046 | 4.9956 | -0.0090 |
| 324 | 20 | HDR unbiased | 4.9891 | 4.987 | -0.0021 |
| 325 | 20 | HDR unbiased | 4.9895 | 4.9929 | 0.0034 |
| 331 | 30 | HDR unbiased | 4.9862 | 4.9804 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.007 | 5.0045 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0172 | 5.0109 | -0.0063 |
| 334 | 30 | HDR unbiased | 4.9859 | 4.984 | -0.0019 |
| 335 | 30 | HDR unbiased | 4.9835 | 4.976 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9918 | 4.9735 | -0.0183 |
| 352 | 50 | HDR unbiased | 5.0019 | 4.9901 | -0.0118 |
| 353 | 50 | HDR unbiased | 4.9838 | 4.9839 | 0.0001 |
| 354 | 50 | HDR unbiased | 4.9967 | 5.0051 | 0.0084 |
| 355 | 50 | HDR unbiased | 5.0137 | 4.9866 | -0.0271 |
| 521 | 20 | HDR biased | 4.9884 | 4.9845 | -0.0039 |
| 522 | 20 | HDR biased | 5.0058 | 5.0036 | -0.0022 |
| 523 | 20 | HDR biased | 4.9926 | 4.9899 | -0.0027 |
| 524 | 20 | HDR biased | 4.9889 | 5.0031 | 0.0142 |
| 525 | 20 | HDR biased | 5.0015 | 4.9856 | -0.0159 |
| 531 | 30 | HDR biased | 5.0122 | 5.006 | -0.0062 |
| 532 | 30 | HDR biased | 5.0105 | 4.9815 | -0.029 |
| 533 | 30 | HDR biased | 4.985 | 5.0069 | 0.0219 |
| 534 | 30 | HDR biased | 5.0173 | 5.0064 | -0.0109 |
| 535 | 30 | HDR biased | 5.01 | 5.0079 | -0.0021 |
| 551 | 50 | HDR biased | 4.9888 | 4.9834 | -0.0054 |
| 552 | 50 | HDR biased | 5.0059 | 4.9993 | -0.0066 |
| 553 | 50 | HDR biased | 5.0044 | 5.0029 | -0.0015 |
| 554 | 50 | HDR biased | 5.0056 | 5.0061 | 0.0005 |
| 555 | 50 | HDR biased | 5.0137 | 5.0097 | -0.004 |

TID vs Post - Pre Exposure Delta

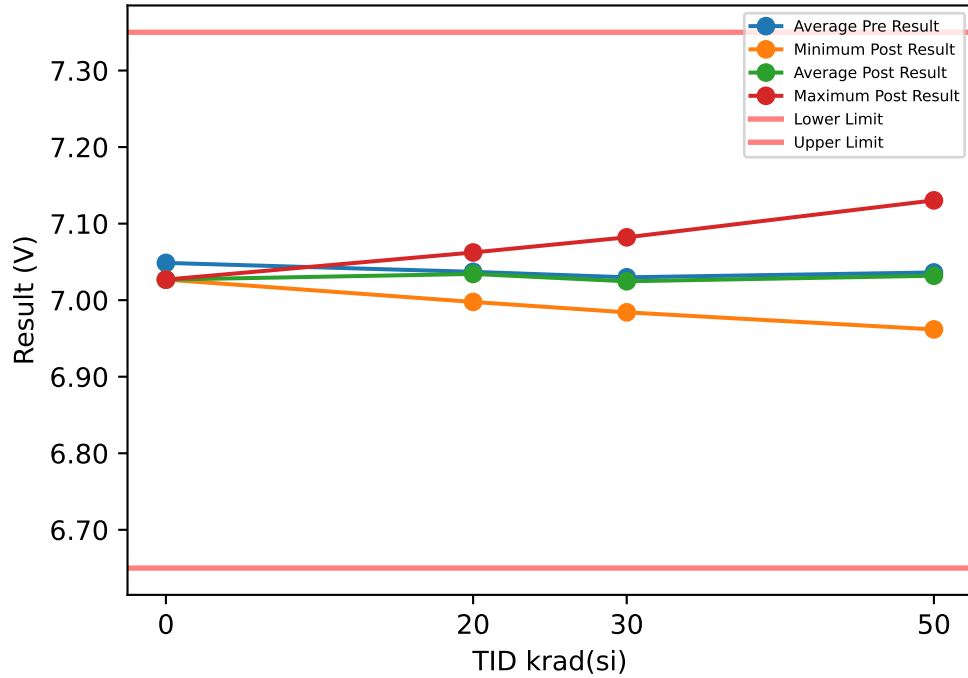


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9836 | 4.9836 | 4.9836 | | 4.9998 | 4.9998 | 4.9998 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9867 | 4.9964 | 5.0171 | 0.010219 | 4.9845 | 4.9942 | 5.0134 | 0.0096467 | -0.0159 | -0.00221 | 0.0142 | 0.0077721 |
| 30 | 4.9835 | 5.0015 | 5.0173 | 0.014406 | 4.976 | 4.9965 | 5.0109 | 0.013978 | -0.029 | -0.00503 | 0.0219 | 0.012332 |
| 50 | 4.9838 | 5.0006 | 5.0137 | 0.010146 | 4.9735 | 4.9941 | 5.0097 | 0.012147 | -0.0271 | -0.00657 | 0.0084 | 0.010213 |

Device Test: 62.15 V_BP7L(_V_BP7L IIM 1MHz VIN_14V)

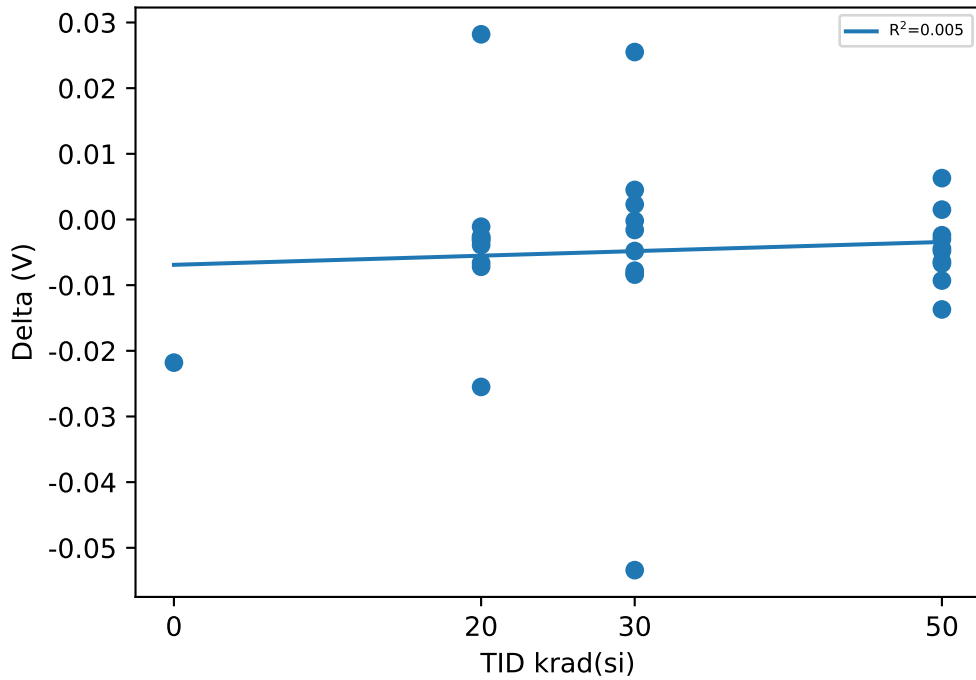
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0487 | 7.0269 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0662 | 7.0623 | -0.0039 |
| 322 | 20 | HDR unbiased | 7.0589 | 7.0563 | -0.0026 |
| 323 | 20 | HDR unbiased | 7.0106 | 7.0034 | -0.0072 |
| 324 | 20 | HDR unbiased | 7.0271 | 7.0239 | -0.0032 |
| 325 | 20 | HDR unbiased | 7.0622 | 7.0595 | -0.0027 |
| 331 | 30 | HDR unbiased | 7.0053 | 7.0005 | -0.0048 |
| 332 | 30 | HDR unbiased | 6.9925 | 6.9841 | -0.0084 |
| 333 | 30 | HDR unbiased | 7.0262 | 7.0184 | -0.0078 |
| 334 | 30 | HDR unbiased | 7.0195 | 7.024 | 0.0045 |
| 335 | 30 | HDR unbiased | 6.9838 | 6.9861 | 0.0023 |
| 351 | 50 | HDR unbiased | 7.0041 | 7.0104 | 0.0063 |
| 352 | 50 | HDR unbiased | 6.9662 | 6.9618 | -0.0044 |
| 353 | 50 | HDR unbiased | 7.0139 | 7.0002 | -0.0137 |
| 354 | 50 | HDR unbiased | 7.0676 | 7.0646 | -0.003 |
| 355 | 50 | HDR unbiased | 7.0656 | 7.0671 | 0.0015 |
| 521 | 20 | HDR biased | 7.0075 | 7.0009 | -0.0066 |
| 522 | 20 | HDR biased | 7.0511 | 7.05 | -0.0011 |
| 523 | 20 | HDR biased | 7.0008 | 6.9977 | -0.0031 |
| 524 | 20 | HDR biased | 7.0573 | 7.0318 | -0.0255 |
| 525 | 20 | HDR biased | 7.0285 | 7.0567 | 0.0282 |
| 531 | 30 | HDR biased | 7.0617 | 7.0535 | -0.0082 |
| 532 | 30 | HDR biased | 7.0092 | 7.0347 | 0.0255 |
| 533 | 30 | HDR biased | 7.0551 | 7.0017 | -0.0534 |
| 534 | 30 | HDR biased | 7.0837 | 7.0821 | -0.0016 |
| 535 | 30 | HDR biased | 7.0617 | 7.0615 | -0.0002 |
| 551 | 50 | HDR biased | 7.0223 | 7.0199 | -0.0024 |
| 552 | 50 | HDR biased | 7.0487 | 7.0439 | -0.0048 |
| 553 | 50 | HDR biased | 7.0238 | 7.0171 | -0.0067 |
| 554 | 50 | HDR biased | 7.0102 | 7.0038 | -0.0064 |
| 555 | 50 | HDR biased | 7.1397 | 7.1304 | -0.0093 |

TID vs Post - Pre Exposure Delta

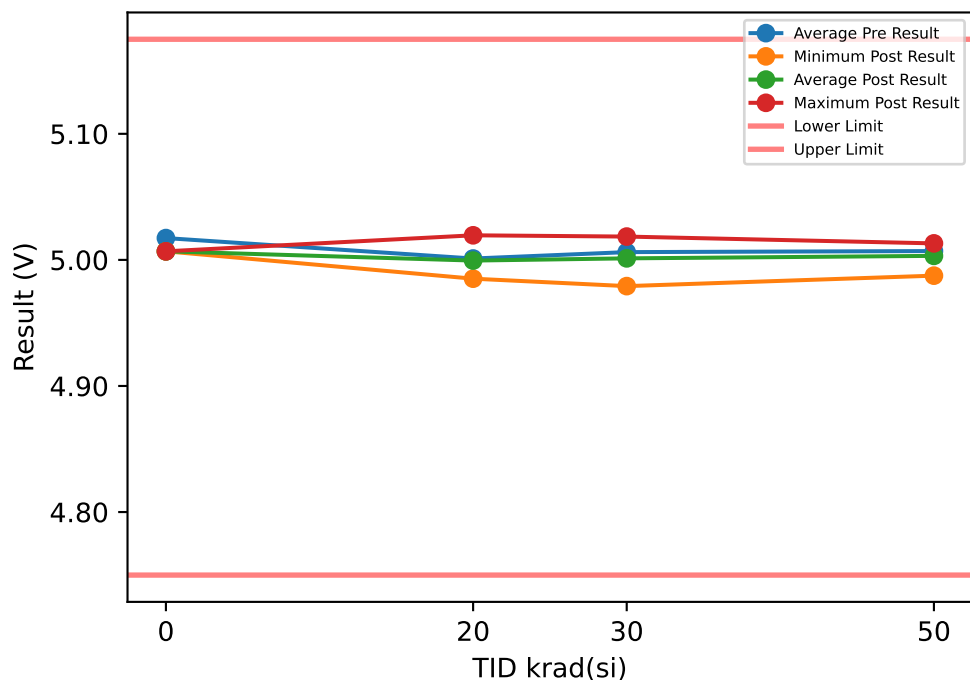


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0487 | 7.0487 | 7.0487 | | 7.0269 | 7.0269 | 7.0269 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 7.0008 | 7.037 | 7.0662 | 0.025002 | 6.9977 | 7.0343 | 7.0623 | 0.026195 | -0.0255 | -0.00277 | 0.0282 | 0.012972 |
| 30 | 6.9838 | 7.0299 | 7.0837 | 0.033717 | 6.9841 | 7.0247 | 7.0821 | 0.033119 | -0.0534 | -0.00521 | 0.0255 | 0.019664 |
| 50 | 6.9662 | 7.0362 | 7.1397 | 0.04734 | 6.9618 | 7.0319 | 7.1304 | 0.046772 | -0.0137 | -0.00429 | 0.0063 | 0.0055286 |

Device Test: 62.16 V_BP5L(_V_BP5L IIM 1MHz VIN_14V)

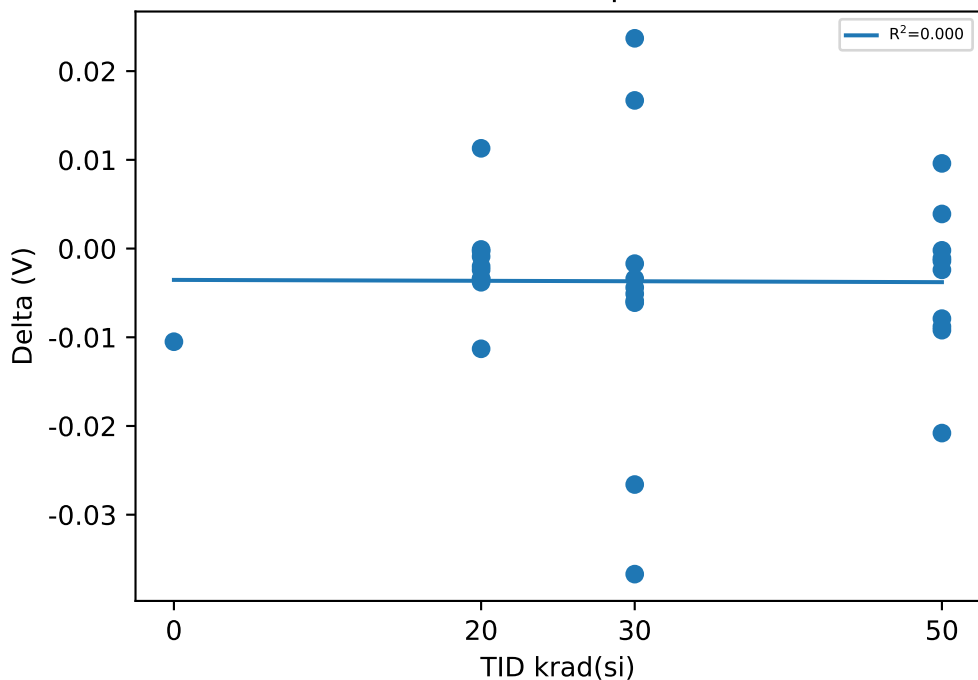
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0173 | 5.0068 | -0.0105 |
| 321 | 20 | HDR unbiased | 4.9902 | 4.9901 | -0.0001 |
| 322 | 20 | HDR unbiased | 5.0167 | 5.0147 | -0.002 |
| 323 | 20 | HDR unbiased | 4.9975 | 4.9972 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9953 | 4.9919 | -0.0034 |
| 325 | 20 | HDR unbiased | 5.0033 | 4.9995 | -0.0038 |
| 331 | 30 | HDR unbiased | 4.9998 | 4.9947 | -0.0051 |
| 332 | 30 | HDR unbiased | 5.0011 | 4.9967 | -0.0044 |
| 333 | 30 | HDR unbiased | 5.0148 | 5.0087 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9972 | 4.9913 | -0.0059 |
| 335 | 30 | HDR unbiased | 5.019 | 5.0173 | -0.0017 |
| 351 | 50 | HDR unbiased | 5.0116 | 4.9908 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9967 | 4.9875 | -0.0092 |
| 353 | 50 | HDR unbiased | 4.9943 | 5.0039 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0118 | 5.0107 | -0.0011 |
| 355 | 50 | HDR unbiased | 5.0188 | 5.01 | -0.0088 |
| 521 | 20 | HDR biased | 5.0229 | 5.0195 | -0.0034 |
| 522 | 20 | HDR biased | 4.9935 | 4.9911 | -0.0024 |
| 523 | 20 | HDR biased | 4.986 | 4.9851 | -0.0009 |
| 524 | 20 | HDR biased | 4.9972 | 5.0085 | 0.0113 |
| 525 | 20 | HDR biased | 5.0083 | 4.997 | -0.0113 |
| 531 | 30 | HDR biased | 5.0058 | 4.9792 | -0.0266 |
| 532 | 30 | HDR biased | 5.0226 | 4.9859 | -0.0367 |
| 533 | 30 | HDR biased | 4.9934 | 5.0171 | 0.0237 |
| 534 | 30 | HDR biased | 5.0219 | 5.0185 | -0.0034 |
| 535 | 30 | HDR biased | 4.9861 | 5.0028 | 0.0167 |
| 551 | 50 | HDR biased | 5.0008 | 5.0006 | -0.0002 |
| 552 | 50 | HDR biased | 5.0038 | 5.0024 | -0.0014 |
| 553 | 50 | HDR biased | 5.0155 | 5.0131 | -0.0024 |
| 554 | 50 | HDR biased | 5.0163 | 5.0084 | -0.0079 |
| 555 | 50 | HDR biased | 5.0006 | 5.0045 | 0.0039 |

TID vs Post - Pre Exposure Delta

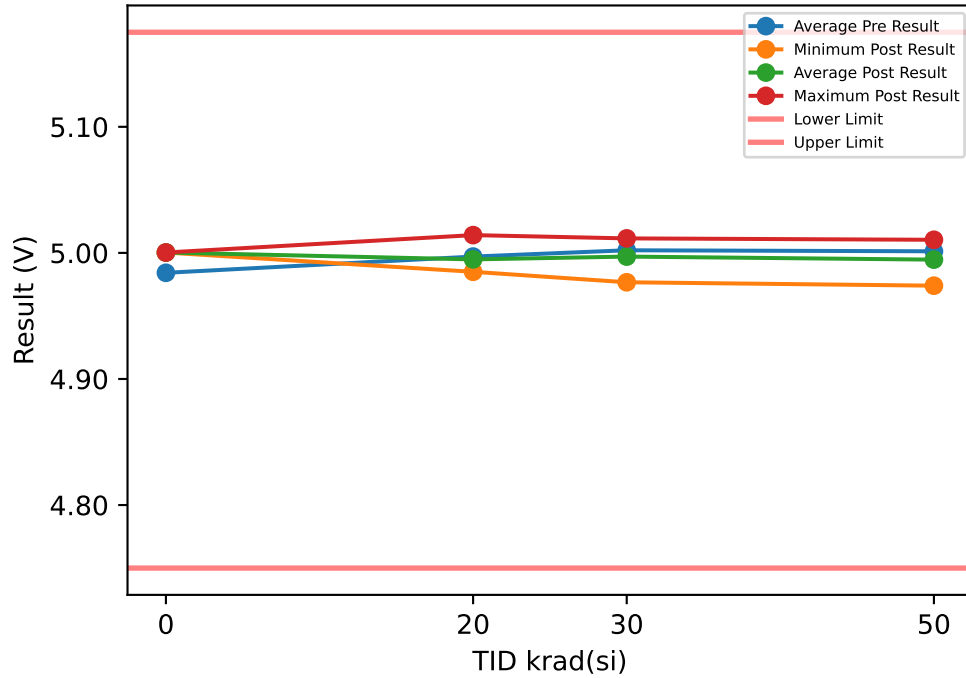


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0173 | 5.0173 | 5.0173 | | 5.0068 | 5.0068 | 5.0068 | | -0.0105 | -0.0105 | -0.0105 | |
| 20 | 4.986 | 5.0011 | 5.0229 | 0.011746 | 4.9851 | 4.9995 | 5.0195 | 0.011292 | -0.0113 | -0.00163 | 0.0113 | 0.0055482 |
| 30 | 4.9861 | 5.0062 | 5.0226 | 0.012777 | 4.9792 | 5.0012 | 5.0185 | 0.013939 | -0.0367 | -0.00495 | 0.0237 | 0.017581 |
| 50 | 4.9943 | 5.007 | 5.0188 | 0.0088141 | 4.9875 | 5.0032 | 5.0131 | 0.0084154 | -0.0208 | -0.00383 | 0.0096 | 0.0083452 |

Device Test: 62.17 V_BP5H(_V_BP5H IIM 1MHz VIN_14V)

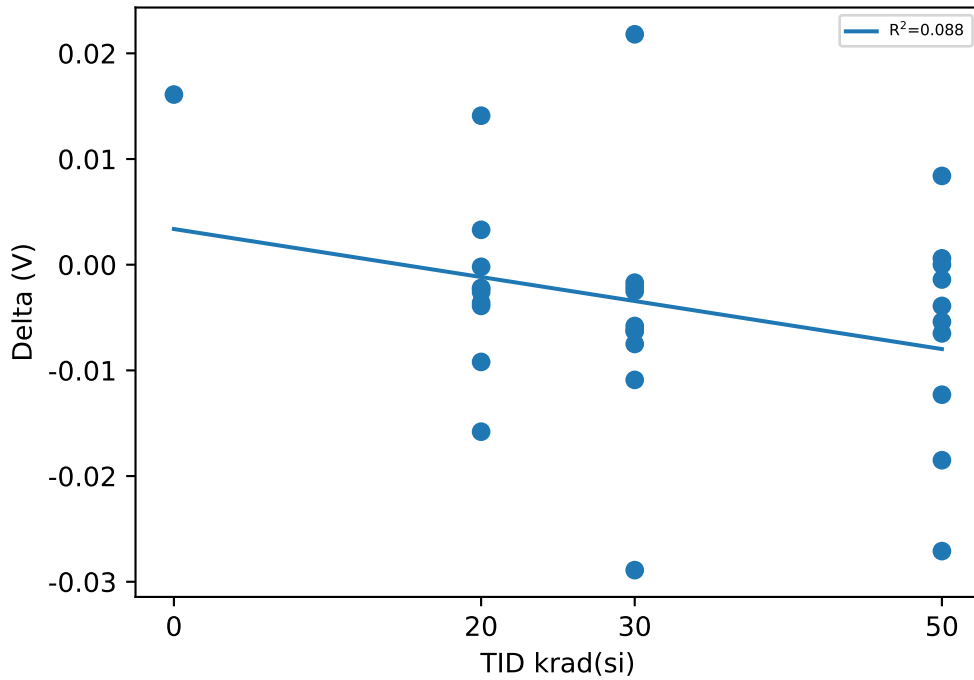
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9842 | 5.0003 | 0.0161 |
| 321 | 20 | HDR unbiased | 4.9874 | 4.9872 | -0.0002 |
| 322 | 20 | HDR unbiased | 5.0177 | 5.0141 | -0.0036 |
| 323 | 20 | HDR unbiased | 5.0054 | 4.9962 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.9898 | 4.9876 | -0.0022 |
| 325 | 20 | HDR unbiased | 4.9902 | 4.9935 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9868 | 4.981 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.0077 | 5.0052 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0178 | 5.0115 | -0.0063 |
| 334 | 30 | HDR unbiased | 4.9864 | 4.9847 | -0.0017 |
| 335 | 30 | HDR unbiased | 4.9842 | 4.9767 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9925 | 4.974 | -0.0185 |
| 352 | 50 | HDR unbiased | 5.0028 | 4.9905 | -0.0123 |
| 353 | 50 | HDR unbiased | 4.9845 | 4.9845 | 0 |
| 354 | 50 | HDR unbiased | 4.9973 | 5.0057 | 0.0084 |
| 355 | 50 | HDR unbiased | 5.0143 | 4.9872 | -0.0271 |
| 521 | 20 | HDR biased | 4.9889 | 4.985 | -0.0039 |
| 522 | 20 | HDR biased | 5.0065 | 5.0042 | -0.0023 |
| 523 | 20 | HDR biased | 4.9933 | 4.9907 | -0.0026 |
| 524 | 20 | HDR biased | 4.9896 | 5.0037 | 0.0141 |
| 525 | 20 | HDR biased | 5.002 | 4.9862 | -0.0158 |
| 531 | 30 | HDR biased | 5.0128 | 5.0066 | -0.0062 |
| 532 | 30 | HDR biased | 5.011 | 4.9821 | -0.0289 |
| 533 | 30 | HDR biased | 4.9856 | 5.0074 | 0.0218 |
| 534 | 30 | HDR biased | 5.0178 | 5.0069 | -0.0109 |
| 535 | 30 | HDR biased | 5.0107 | 5.0086 | -0.0021 |
| 551 | 50 | HDR biased | 4.9894 | 4.984 | -0.0054 |
| 552 | 50 | HDR biased | 5.0064 | 4.9999 | -0.0065 |
| 553 | 50 | HDR biased | 5.005 | 5.0036 | -0.0014 |
| 554 | 50 | HDR biased | 5.0062 | 5.0068 | 0.0006 |
| 555 | 50 | HDR biased | 5.0143 | 5.0104 | -0.0039 |

TID vs Post - Pre Exposure Delta

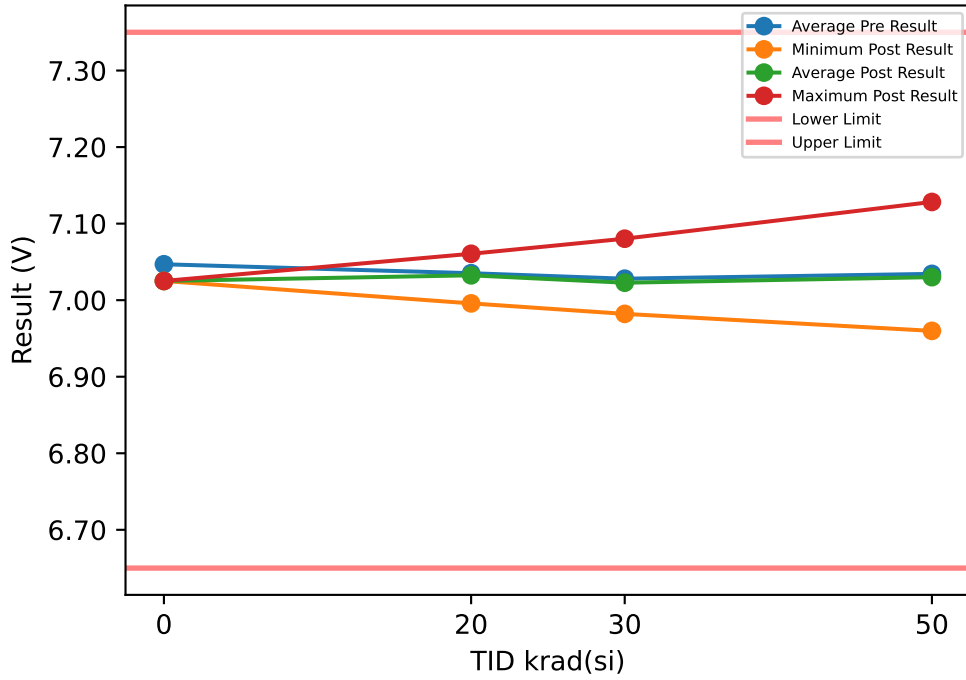


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9842 | 4.9842 | 4.9842 | | 5.0003 | 5.0003 | 5.0003 | | 0.0161 | 0.0161 | 0.0161 | |
| 20 | 4.9874 | 4.9971 | 5.0177 | 0.010212 | 4.985 | 4.9948 | 5.0141 | 0.0096615 | -0.0158 | -0.00224 | 0.0141 | 0.0077381 |
| 30 | 4.9842 | 5.0021 | 5.0178 | 0.014396 | 4.9767 | 4.9971 | 5.0115 | 0.013951 | -0.0289 | -0.00501 | 0.0218 | 0.012292 |
| 50 | 4.9845 | 5.0013 | 5.0143 | 0.010117 | 4.974 | 4.9947 | 5.0104 | 0.012207 | -0.0271 | -0.00661 | 0.0084 | 0.010277 |

Device Test: 62.18 V_BP7L(_V_BP7L IIM 2MHz VIN_14V)

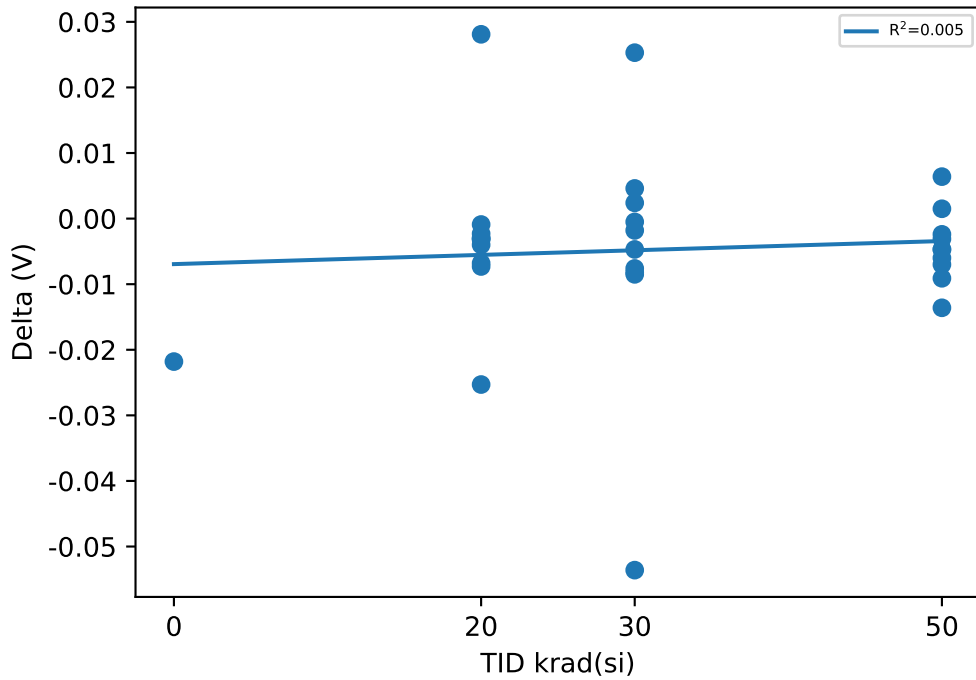
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0469 | 7.0251 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0646 | 7.0606 | -0.004 |
| 322 | 20 | HDR unbiased | 7.0572 | 7.0542 | -0.003 |
| 323 | 20 | HDR unbiased | 7.0087 | 7.0014 | -0.0073 |
| 324 | 20 | HDR unbiased | 7.0253 | 7.0223 | -0.003 |
| 325 | 20 | HDR unbiased | 7.0601 | 7.0578 | -0.0023 |
| 331 | 30 | HDR unbiased | 7.0034 | 6.9987 | -0.0047 |
| 332 | 30 | HDR unbiased | 6.9906 | 6.9821 | -0.0085 |
| 333 | 30 | HDR unbiased | 7.0241 | 7.0165 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0177 | 7.0223 | 0.0046 |
| 335 | 30 | HDR unbiased | 6.9821 | 6.9845 | 0.0024 |
| 351 | 50 | HDR unbiased | 7.0022 | 7.0086 | 0.0064 |
| 352 | 50 | HDR unbiased | 6.9646 | 6.9599 | -0.0047 |
| 353 | 50 | HDR unbiased | 7.0121 | 6.9985 | -0.0136 |
| 354 | 50 | HDR unbiased | 7.0658 | 7.0627 | -0.0031 |
| 355 | 50 | HDR unbiased | 7.0638 | 7.0653 | 0.0015 |
| 521 | 20 | HDR biased | 7.0058 | 6.999 | -0.0068 |
| 522 | 20 | HDR biased | 7.0492 | 7.0483 | -0.0009 |
| 523 | 20 | HDR biased | 6.999 | 6.9958 | -0.0032 |
| 524 | 20 | HDR biased | 7.0555 | 7.0302 | -0.0253 |
| 525 | 20 | HDR biased | 7.0269 | 7.055 | 0.0281 |
| 531 | 30 | HDR biased | 7.0598 | 7.0516 | -0.0082 |
| 532 | 30 | HDR biased | 7.0072 | 7.0325 | 0.0253 |
| 533 | 30 | HDR biased | 7.0535 | 6.9999 | -0.0536 |
| 534 | 30 | HDR biased | 7.0821 | 7.0803 | -0.0018 |
| 535 | 30 | HDR biased | 7.0601 | 7.0596 | -0.0005 |
| 551 | 50 | HDR biased | 7.0205 | 7.0181 | -0.0024 |
| 552 | 50 | HDR biased | 7.0467 | 7.042 | -0.0047 |
| 553 | 50 | HDR biased | 7.0221 | 7.0151 | -0.007 |
| 554 | 50 | HDR biased | 7.0082 | 7.0022 | -0.006 |
| 555 | 50 | HDR biased | 7.1374 | 7.1283 | -0.0091 |

TID vs Post - Pre Exposure Delta

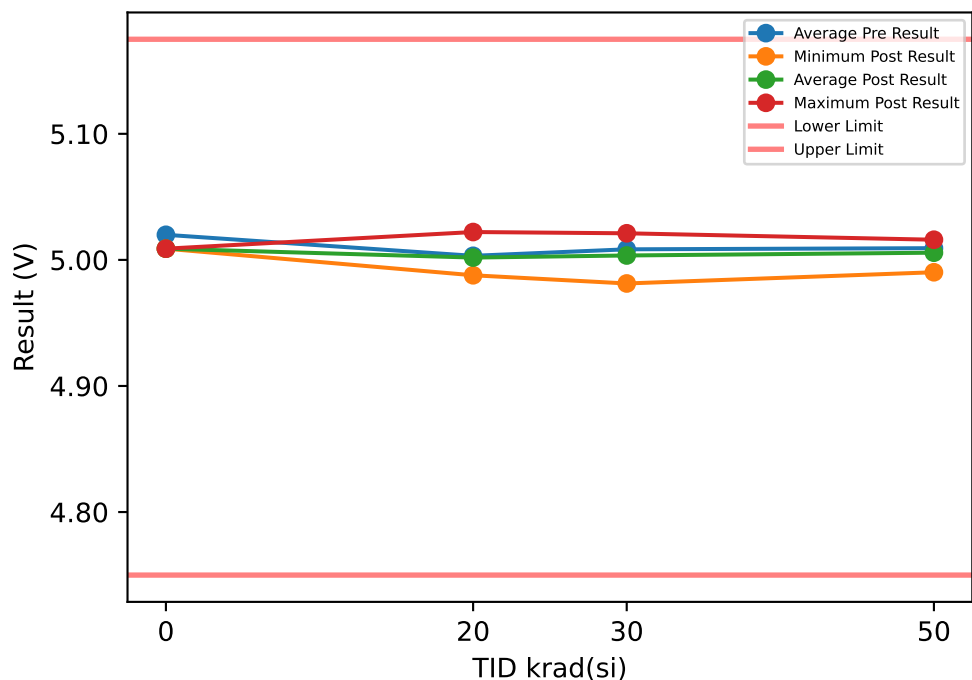


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0469 | 7.0469 | 7.0469 | | 7.0251 | 7.0251 | 7.0251 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 6.999 | 7.0352 | 7.0646 | 0.02499 | 6.9958 | 7.0325 | 7.0606 | 0.026251 | -0.0253 | -0.00277 | 0.0281 | 0.012922 |
| 30 | 6.9821 | 7.0281 | 7.0821 | 0.033802 | 6.9821 | 7.0228 | 7.0803 | 0.033087 | -0.0536 | -0.00526 | 0.0253 | 0.019681 |
| 50 | 6.9646 | 7.0343 | 7.1374 | 0.047197 | 6.9599 | 7.0301 | 7.1283 | 0.046694 | -0.0136 | -0.00427 | 0.0064 | 0.0055096 |

Device Test: 62.19 V_BP5L(_V_BP5L IIM 2MHz VIN_14V)

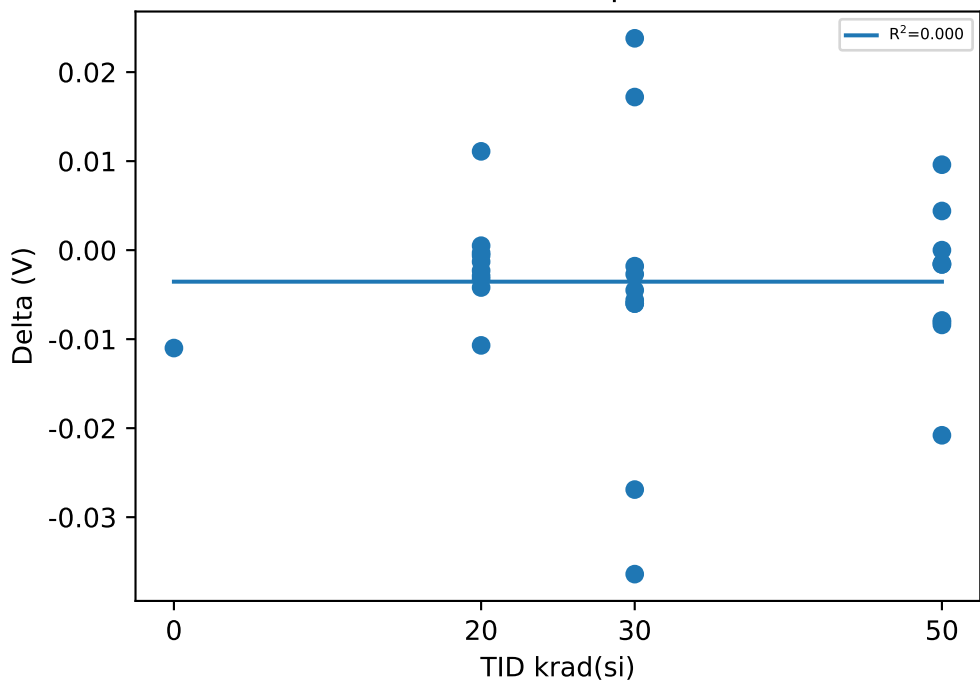
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0199 | 5.0089 | -0.011 |
| 321 | 20 | HDR unbiased | 4.9921 | 4.9926 | 0.0005 |
| 322 | 20 | HDR unbiased | 5.0186 | 5.0173 | -0.0013 |
| 323 | 20 | HDR unbiased | 4.9999 | 4.9996 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9972 | 4.9939 | -0.0033 |
| 325 | 20 | HDR unbiased | 5.0059 | 5.0017 | -0.0042 |
| 331 | 30 | HDR unbiased | 5.0021 | 4.9965 | -0.0056 |
| 332 | 30 | HDR unbiased | 5.0035 | 4.999 | -0.0045 |
| 333 | 30 | HDR unbiased | 5.0175 | 5.0115 | -0.006 |
| 334 | 30 | HDR unbiased | 4.9991 | 4.9931 | -0.006 |
| 335 | 30 | HDR unbiased | 5.0212 | 5.0194 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0138 | 4.993 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9986 | 4.9902 | -0.0084 |
| 353 | 50 | HDR unbiased | 4.9963 | 5.0059 | 0.0096 |
| 354 | 50 | HDR unbiased | 5.0146 | 5.0131 | -0.0015 |
| 355 | 50 | HDR unbiased | 5.0211 | 5.013 | -0.0081 |
| 521 | 20 | HDR biased | 5.025 | 5.0221 | -0.0029 |
| 522 | 20 | HDR biased | 4.9956 | 4.9933 | -0.0023 |
| 523 | 20 | HDR biased | 4.9884 | 4.9878 | -0.0006 |
| 524 | 20 | HDR biased | 4.9995 | 5.0106 | 0.0111 |
| 525 | 20 | HDR biased | 5.0102 | 4.9995 | -0.0107 |
| 531 | 30 | HDR biased | 5.0082 | 4.9813 | -0.0269 |
| 532 | 30 | HDR biased | 5.0251 | 4.9887 | -0.0364 |
| 533 | 30 | HDR biased | 4.9953 | 5.0191 | 0.0238 |
| 534 | 30 | HDR biased | 5.0238 | 5.0211 | -0.0027 |
| 535 | 30 | HDR biased | 4.9881 | 5.0053 | 0.0172 |
| 551 | 50 | HDR biased | 5.003 | 5.003 | 0 |
| 552 | 50 | HDR biased | 5.0062 | 5.0046 | -0.0016 |
| 553 | 50 | HDR biased | 5.0176 | 5.016 | -0.0016 |
| 554 | 50 | HDR biased | 5.0187 | 5.0108 | -0.0079 |
| 555 | 50 | HDR biased | 5.0031 | 5.0075 | 0.0044 |

TID vs Post - Pre Exposure Delta

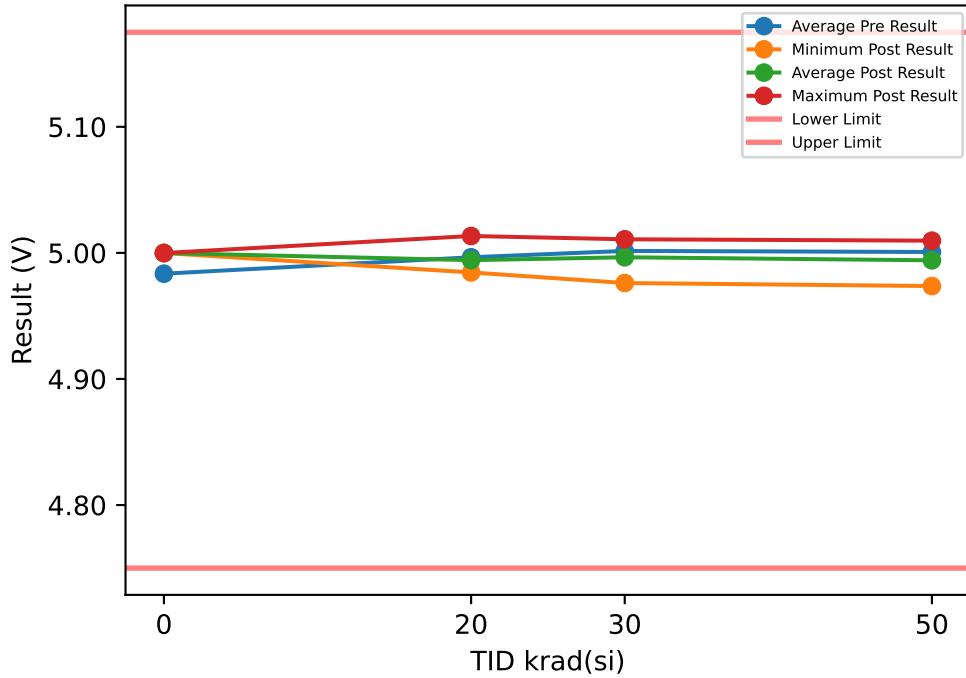


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0199 | 5.0199 | 5.0199 | | 5.0089 | 5.0089 | 5.0089 | | -0.011 | -0.011 | -0.011 | |
| 20 | 4.9884 | 5.0032 | 5.025 | 0.011687 | 4.9878 | 5.0018 | 5.0221 | 0.011329 | -0.0107 | -0.0014 | 0.0111 | 0.0054029 |
| 30 | 4.9881 | 5.0084 | 5.0251 | 0.012895 | 4.9813 | 5.0035 | 5.0211 | 0.013994 | -0.0364 | -0.00489 | 0.0238 | 0.017657 |
| 50 | 4.9963 | 5.0093 | 5.0211 | 0.0089198 | 4.9902 | 5.0057 | 5.016 | 0.008521 | -0.0208 | -0.00359 | 0.0096 | 0.0083082 |

Device Test: 62.2 V_BP5H(_V_BP5H PWM 500kHz VIN_14V)

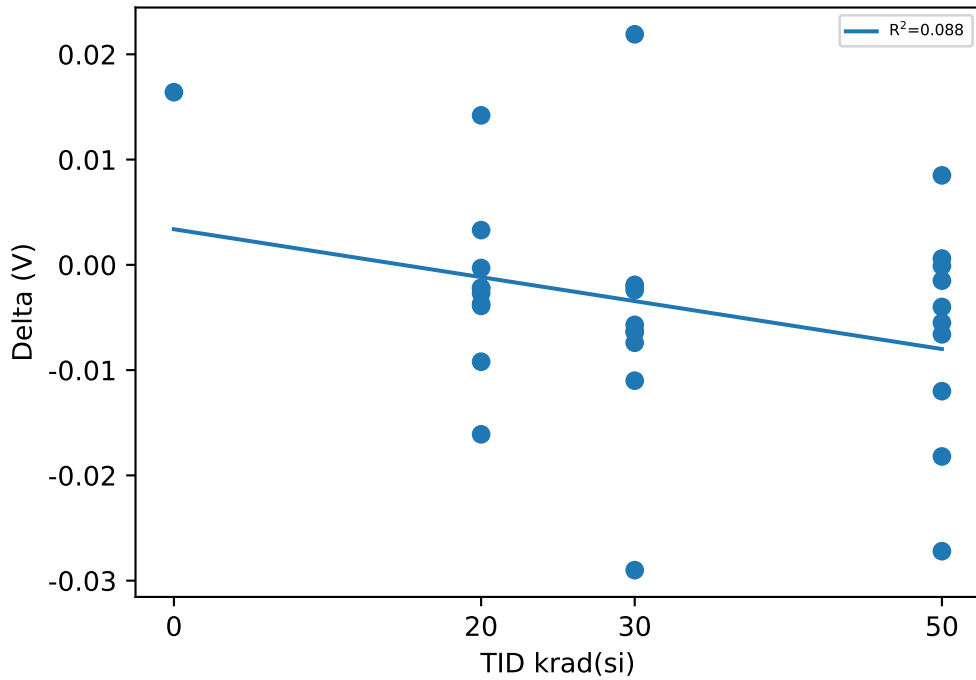
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9835 | 4.9999 | 0.0164 |
| 321 | 20 | HDR unbiased | 4.9868 | 4.9865 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0171 | 5.0134 | -0.0037 |
| 323 | 20 | HDR unbiased | 5.0048 | 4.9956 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.9891 | 4.9869 | -0.0022 |
| 325 | 20 | HDR unbiased | 4.9896 | 4.9929 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9861 | 4.9804 | -0.0057 |
| 332 | 30 | HDR unbiased | 5.0071 | 5.0047 | -0.0024 |
| 333 | 30 | HDR unbiased | 5.0172 | 5.0108 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9861 | 4.9842 | -0.0019 |
| 335 | 30 | HDR unbiased | 4.9835 | 4.9761 | -0.0074 |
| 351 | 50 | HDR unbiased | 4.9919 | 4.9737 | -0.0182 |
| 352 | 50 | HDR unbiased | 5.002 | 4.99 | -0.012 |
| 353 | 50 | HDR unbiased | 4.984 | 4.9839 | -0.0001 |
| 354 | 50 | HDR unbiased | 4.9967 | 5.0052 | 0.0085 |
| 355 | 50 | HDR unbiased | 5.0139 | 4.9867 | -0.0272 |
| 521 | 20 | HDR biased | 4.9884 | 4.9845 | -0.0039 |
| 522 | 20 | HDR biased | 5.006 | 5.0038 | -0.0022 |
| 523 | 20 | HDR biased | 4.9927 | 4.99 | -0.0027 |
| 524 | 20 | HDR biased | 4.989 | 5.0032 | 0.0142 |
| 525 | 20 | HDR biased | 5.0017 | 4.9856 | -0.0161 |
| 531 | 30 | HDR biased | 5.0123 | 5.006 | -0.0063 |
| 532 | 30 | HDR biased | 5.0105 | 4.9815 | -0.029 |
| 533 | 30 | HDR biased | 4.9851 | 5.007 | 0.0219 |
| 534 | 30 | HDR biased | 5.0175 | 5.0065 | -0.011 |
| 535 | 30 | HDR biased | 5.0102 | 5.0081 | -0.0021 |
| 551 | 50 | HDR biased | 4.9889 | 4.9834 | -0.0055 |
| 552 | 50 | HDR biased | 5.006 | 4.9994 | -0.0066 |
| 553 | 50 | HDR biased | 5.0045 | 5.003 | -0.0015 |
| 554 | 50 | HDR biased | 5.0056 | 5.0062 | 0.0006 |
| 555 | 50 | HDR biased | 5.0137 | 5.0097 | -0.004 |

TID vs Post - Pre Exposure Delta

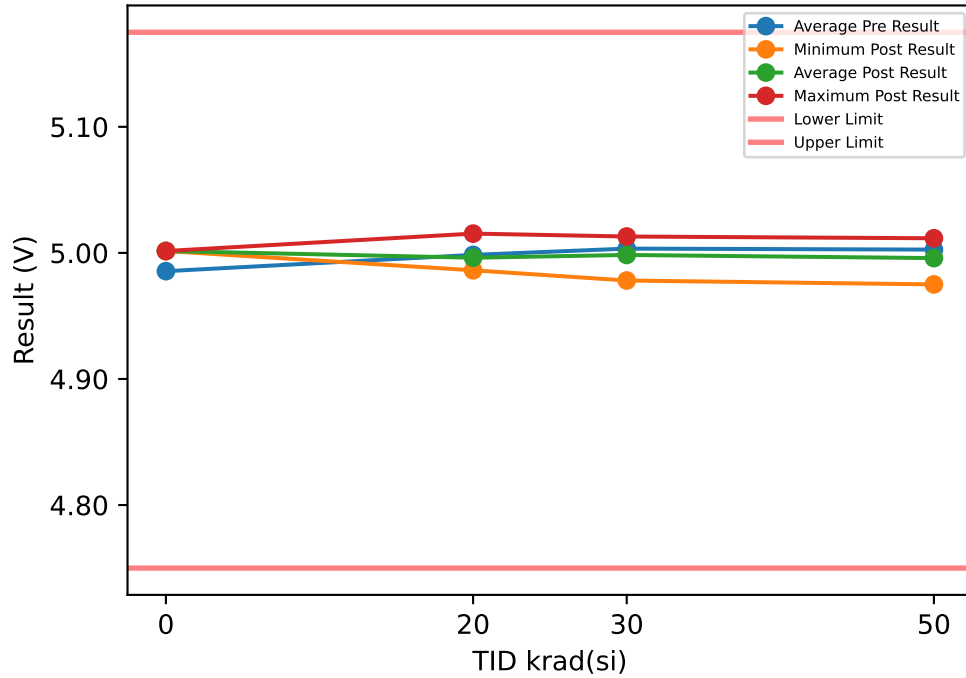


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9835 | 4.9835 | 4.9835 | | 4.9999 | 4.9999 | 4.9999 | | 0.0164 | 0.0164 | 0.0164 | |
| 20 | 4.9868 | 4.9965 | 5.0171 | 0.010238 | 4.9845 | 4.9942 | 5.0134 | 0.0096822 | -0.0161 | -0.00228 | 0.0142 | 0.0078199 |
| 30 | 4.9835 | 5.0016 | 5.0175 | 0.014432 | 4.9761 | 4.9965 | 5.0108 | 0.013978 | -0.029 | -0.00503 | 0.0219 | 0.012339 |
| 50 | 4.984 | 5.0007 | 5.0139 | 0.010127 | 4.9737 | 4.9941 | 5.0097 | 0.012141 | -0.0272 | -0.0066 | 0.0085 | 0.010242 |

Device Test: 62.20 V_BP5H(_V_BP5H IIM 2MHz VIN_14V)

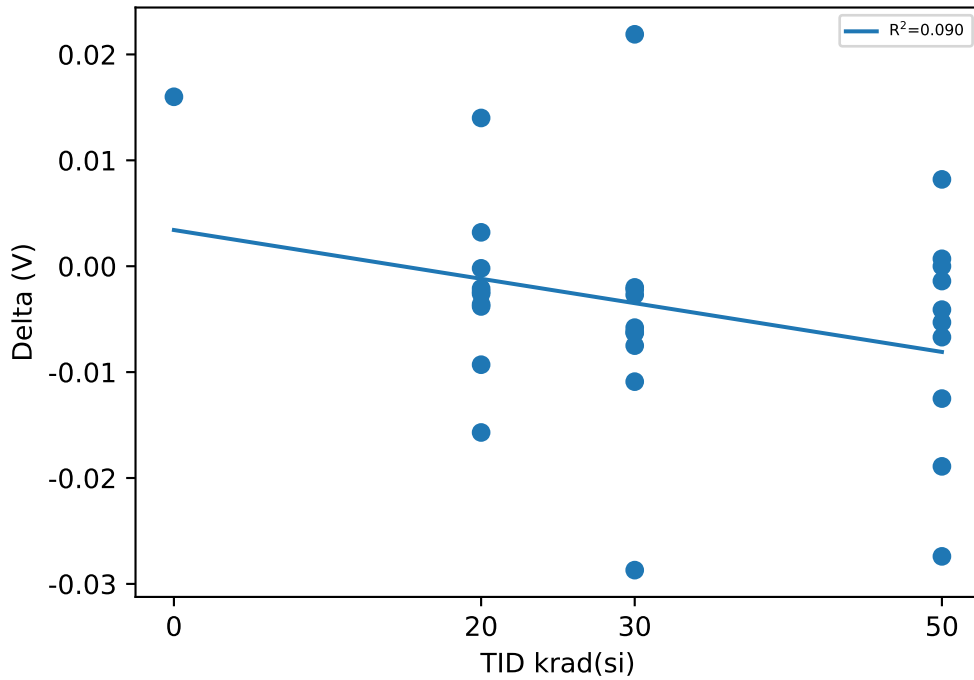
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9855 | 5.0015 | 0.016 |
| 321 | 20 | HDR unbiased | 4.9888 | 4.9886 | -0.0002 |
| 322 | 20 | HDR unbiased | 5.0189 | 5.0153 | -0.0036 |
| 323 | 20 | HDR unbiased | 5.0068 | 4.9975 | -0.0093 |
| 324 | 20 | HDR unbiased | 4.991 | 4.9889 | -0.0021 |
| 325 | 20 | HDR unbiased | 4.9916 | 4.9948 | 0.0032 |
| 331 | 30 | HDR unbiased | 4.9882 | 4.9824 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.0091 | 5.0064 | -0.0027 |
| 333 | 30 | HDR unbiased | 5.0192 | 5.013 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.988 | 4.986 | -0.002 |
| 335 | 30 | HDR unbiased | 4.9856 | 4.9781 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9939 | 4.975 | -0.0189 |
| 352 | 50 | HDR unbiased | 5.0042 | 4.9917 | -0.0125 |
| 353 | 50 | HDR unbiased | 4.9858 | 4.9858 | 0 |
| 354 | 50 | HDR unbiased | 4.9986 | 5.0068 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0157 | 4.9883 | -0.0274 |
| 521 | 20 | HDR biased | 4.99 | 4.9862 | -0.0038 |
| 522 | 20 | HDR biased | 5.0079 | 5.0055 | -0.0024 |
| 523 | 20 | HDR biased | 4.9947 | 4.9921 | -0.0026 |
| 524 | 20 | HDR biased | 4.991 | 5.005 | 0.014 |
| 525 | 20 | HDR biased | 5.0034 | 4.9877 | -0.0157 |
| 531 | 30 | HDR biased | 5.0141 | 5.0078 | -0.0063 |
| 532 | 30 | HDR biased | 5.0122 | 4.9835 | -0.0287 |
| 533 | 30 | HDR biased | 4.9867 | 5.0086 | 0.0219 |
| 534 | 30 | HDR biased | 5.0189 | 5.008 | -0.0109 |
| 535 | 30 | HDR biased | 5.012 | 5.0098 | -0.0022 |
| 551 | 50 | HDR biased | 4.9905 | 4.9852 | -0.0053 |
| 552 | 50 | HDR biased | 5.0078 | 5.0011 | -0.0067 |
| 553 | 50 | HDR biased | 5.0063 | 5.0049 | -0.0014 |
| 554 | 50 | HDR biased | 5.0076 | 5.0083 | 0.0007 |
| 555 | 50 | HDR biased | 5.0157 | 5.0116 | -0.0041 |

TID vs Post - Pre Exposure Delta

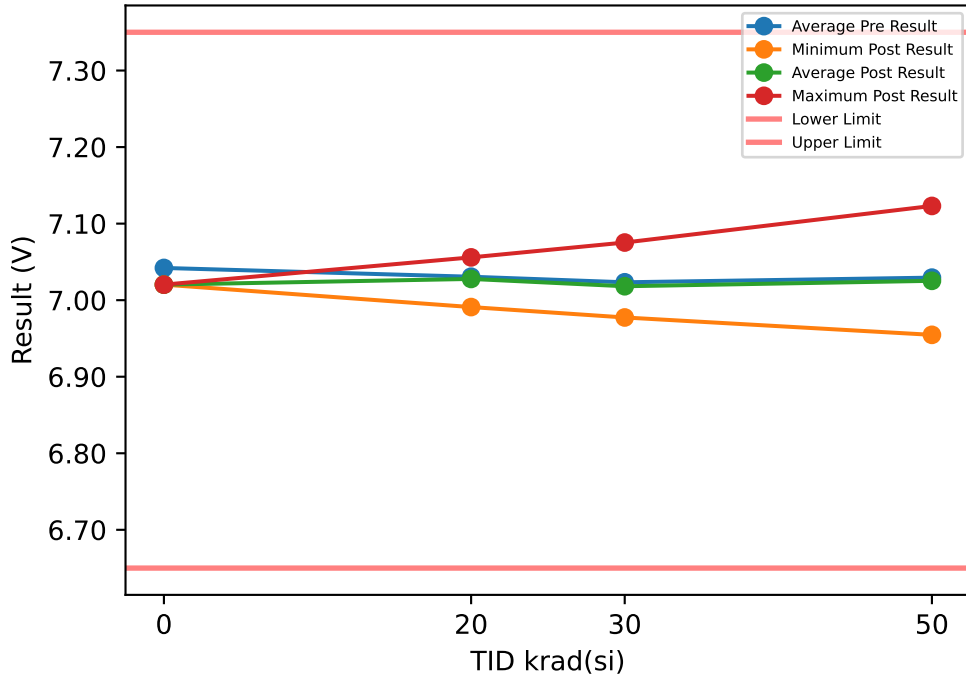


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9855 | 4.9855 | 4.9855 | | 5.0015 | 5.0015 | 5.0015 | | 0.016 | 0.016 | 0.016 | |
| 20 | 4.9888 | 4.9984 | 5.0189 | 0.01021 | 4.9862 | 4.9962 | 5.0153 | 0.0096176 | -0.0157 | -0.00225 | 0.014 | 0.0076953 |
| 30 | 4.9856 | 5.0034 | 5.0192 | 0.014346 | 4.9781 | 4.9984 | 5.013 | 0.013887 | -0.0287 | -0.00504 | 0.0219 | 0.012258 |
| 50 | 4.9858 | 5.0026 | 5.0157 | 0.010175 | 4.975 | 4.9959 | 5.0116 | 0.012274 | -0.0274 | -0.00674 | 0.0082 | 0.010379 |

Device Test: 62.21 V_BP7L(_V_BP7L IIM 5MHz VIN_14V)

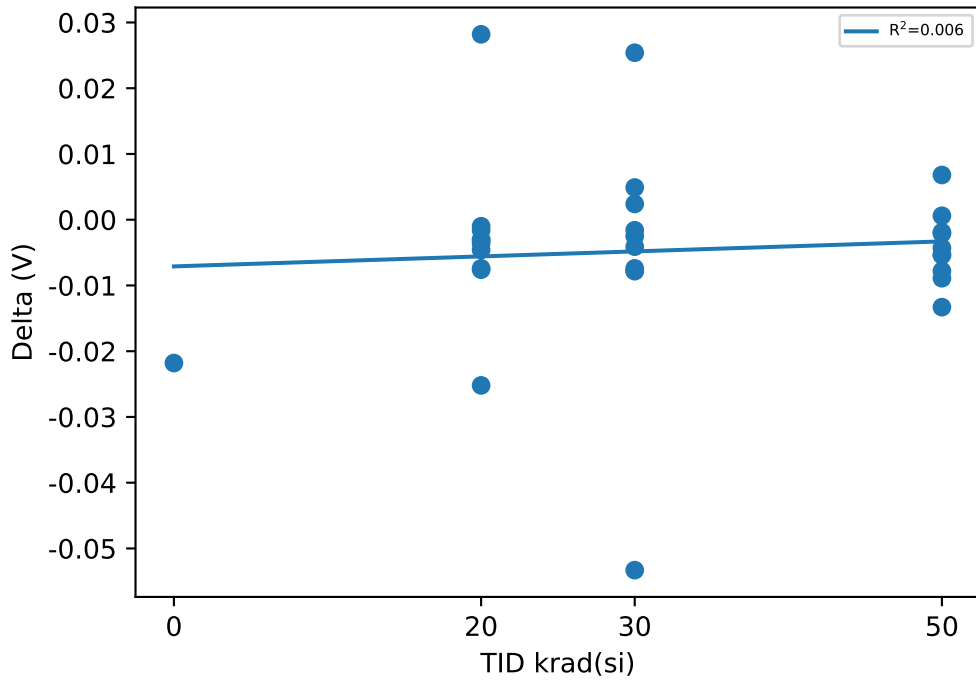
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0421 | 7.0203 | -0.0218 |
| 321 | 20 | HDR unbiased | 7.0605 | 7.0559 | -0.0046 |
| 322 | 20 | HDR unbiased | 7.0527 | 7.0491 | -0.0036 |
| 323 | 20 | HDR unbiased | 7.0037 | 6.9961 | -0.0076 |
| 324 | 20 | HDR unbiased | 7.0207 | 7.0177 | -0.003 |
| 325 | 20 | HDR unbiased | 7.055 | 7.0534 | -0.0016 |
| 331 | 30 | HDR unbiased | 6.9984 | 6.9943 | -0.0041 |
| 332 | 30 | HDR unbiased | 6.9852 | 6.9774 | -0.0078 |
| 333 | 30 | HDR unbiased | 7.0193 | 7.0115 | -0.0078 |
| 334 | 30 | HDR unbiased | 7.0135 | 7.0184 | 0.0049 |
| 335 | 30 | HDR unbiased | 6.9778 | 6.9802 | 0.0024 |
| 351 | 50 | HDR unbiased | 6.997 | 7.0038 | 0.0068 |
| 352 | 50 | HDR unbiased | 6.9601 | 6.9547 | -0.0054 |
| 353 | 50 | HDR unbiased | 7.0072 | 6.9939 | -0.0133 |
| 354 | 50 | HDR unbiased | 7.0603 | 7.0584 | -0.0019 |
| 355 | 50 | HDR unbiased | 7.0592 | 7.0598 | 0.0006 |
| 521 | 20 | HDR biased | 7.0015 | 6.9941 | -0.0074 |
| 522 | 20 | HDR biased | 7.0447 | 7.0437 | -0.001 |
| 523 | 20 | HDR biased | 6.9941 | 6.991 | -0.0031 |
| 524 | 20 | HDR biased | 7.0509 | 7.0257 | -0.0252 |
| 525 | 20 | HDR biased | 7.0225 | 7.0507 | 0.0282 |
| 531 | 30 | HDR biased | 7.0547 | 7.0473 | -0.0074 |
| 532 | 30 | HDR biased | 7.0022 | 7.0276 | 0.0254 |
| 533 | 30 | HDR biased | 7.0489 | 6.9956 | -0.0533 |
| 534 | 30 | HDR biased | 7.0778 | 7.0753 | -0.0025 |
| 535 | 30 | HDR biased | 7.0559 | 7.0543 | -0.0016 |
| 551 | 50 | HDR biased | 7.0158 | 7.0137 | -0.0021 |
| 552 | 50 | HDR biased | 7.0418 | 7.0375 | -0.0043 |
| 553 | 50 | HDR biased | 7.0177 | 7.0099 | -0.0078 |
| 554 | 50 | HDR biased | 7.0032 | 6.9979 | -0.0053 |
| 555 | 50 | HDR biased | 7.132 | 7.1231 | -0.0089 |

TID vs Post - Pre Exposure Delta

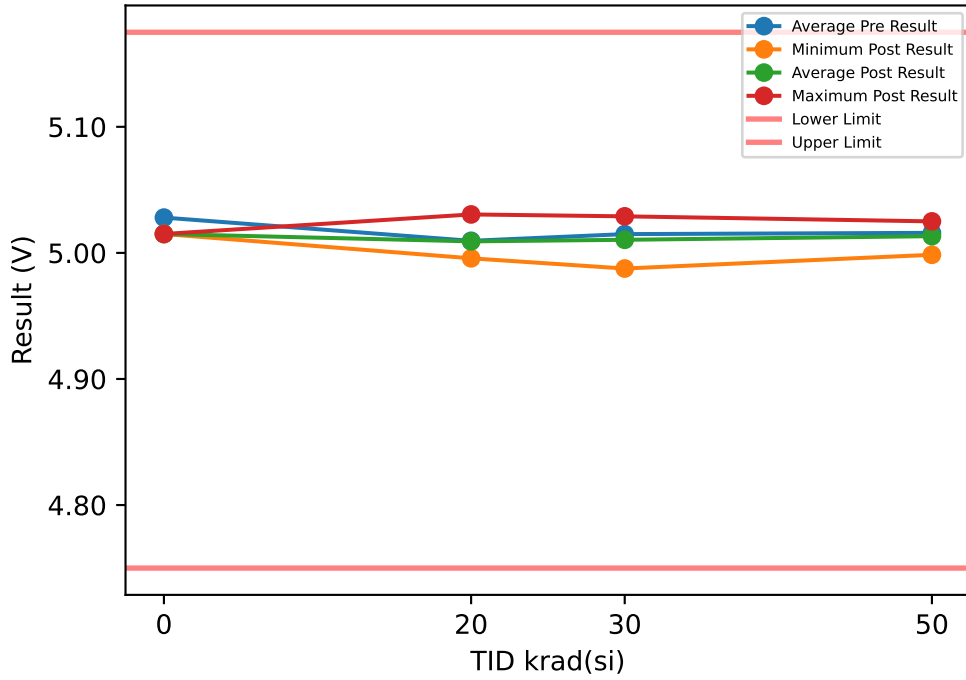


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0421 | 7.0421 | 7.0421 | | 7.0203 | 7.0203 | 7.0203 | | -0.0218 | -0.0218 | -0.0218 | |
| 20 | 6.9941 | 7.0306 | 7.0605 | 0.025066 | 6.991 | 7.0277 | 7.0559 | 0.026409 | -0.0252 | -0.00289 | 0.0282 | 0.012977 |
| 30 | 6.9778 | 7.0234 | 7.0778 | 0.03395 | 6.9774 | 7.0182 | 7.0753 | 0.032888 | -0.0533 | -0.00518 | 0.0254 | 0.019578 |
| 50 | 6.9601 | 7.0294 | 7.132 | 0.046995 | 6.9547 | 7.0253 | 7.1231 | 0.046613 | -0.0133 | -0.00416 | 0.0068 | 0.0055201 |

Device Test: 62.22 V_BP5L(_V_BP5L IIM 5MHz VIN_14V)

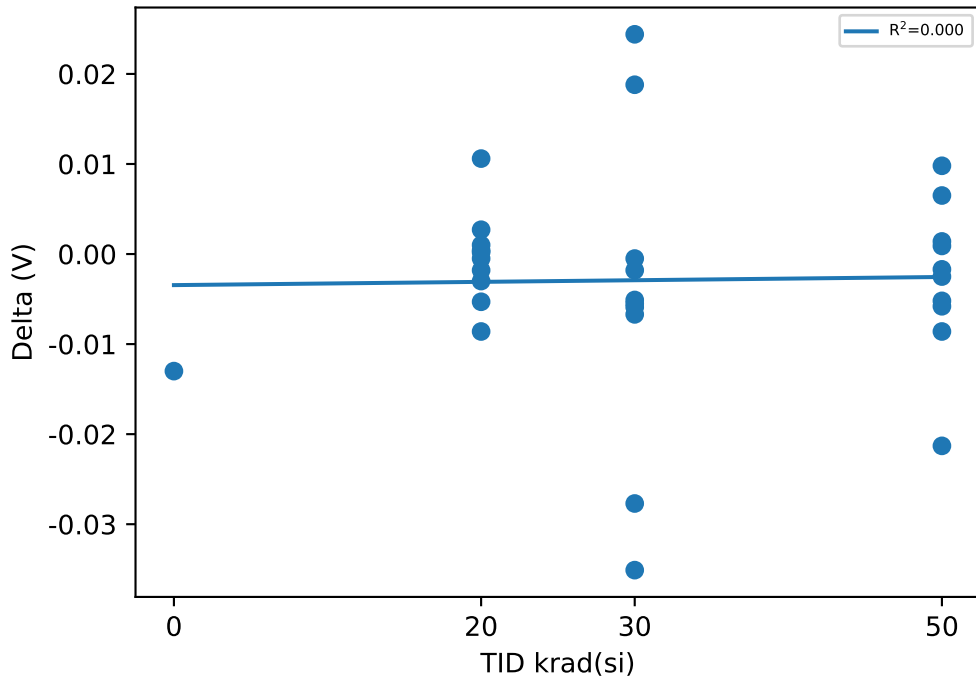
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.028 | 5.015 | -0.013 |
| 321 | 20 | HDR unbiased | 4.9977 | 5.0004 | 0.0027 |
| 322 | 20 | HDR unbiased | 5.0245 | 5.0255 | 0.001 |
| 323 | 20 | HDR unbiased | 5.0069 | 5.0073 | 0.0004 |
| 324 | 20 | HDR unbiased | 5.003 | 5 | -0.003 |
| 325 | 20 | HDR unbiased | 5.0135 | 5.0082 | -0.0053 |
| 331 | 30 | HDR unbiased | 5.0088 | 5.0021 | -0.0067 |
| 332 | 30 | HDR unbiased | 5.0108 | 5.0053 | -0.0055 |
| 333 | 30 | HDR unbiased | 5.0252 | 5.0201 | -0.0051 |
| 334 | 30 | HDR unbiased | 5.0045 | 4.9986 | -0.0059 |
| 335 | 30 | HDR unbiased | 5.0276 | 5.0258 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0207 | 4.9994 | -0.0213 |
| 352 | 50 | HDR unbiased | 5.0043 | 4.9985 | -0.0058 |
| 353 | 50 | HDR unbiased | 5.002 | 5.0118 | 0.0098 |
| 354 | 50 | HDR unbiased | 5.0225 | 5.02 | -0.0025 |
| 355 | 50 | HDR unbiased | 5.0273 | 5.0221 | -0.0052 |
| 521 | 20 | HDR biased | 5.031 | 5.0305 | -0.0005 |
| 522 | 20 | HDR biased | 5.0016 | 4.9998 | -0.0018 |
| 523 | 20 | HDR biased | 4.9955 | 4.9957 | 0.0002 |
| 524 | 20 | HDR biased | 5.0062 | 5.0168 | 0.0106 |
| 525 | 20 | HDR biased | 5.0159 | 5.0073 | -0.0086 |
| 531 | 30 | HDR biased | 5.0153 | 4.9876 | -0.0277 |
| 532 | 30 | HDR biased | 5.0323 | 4.9972 | -0.0351 |
| 533 | 30 | HDR biased | 5.0008 | 5.0252 | 0.0244 |
| 534 | 30 | HDR biased | 5.0295 | 5.029 | -0.0005 |
| 535 | 30 | HDR biased | 4.9942 | 5.013 | 0.0188 |
| 551 | 50 | HDR biased | 5.009 | 5.0099 | 0.0009 |
| 552 | 50 | HDR biased | 5.013 | 5.0113 | -0.0017 |
| 553 | 50 | HDR biased | 5.0236 | 5.025 | 0.0014 |
| 554 | 50 | HDR biased | 5.026 | 5.0174 | -0.0086 |
| 555 | 50 | HDR biased | 5.0106 | 5.0171 | 0.0065 |

TID vs Post - Pre Exposure Delta

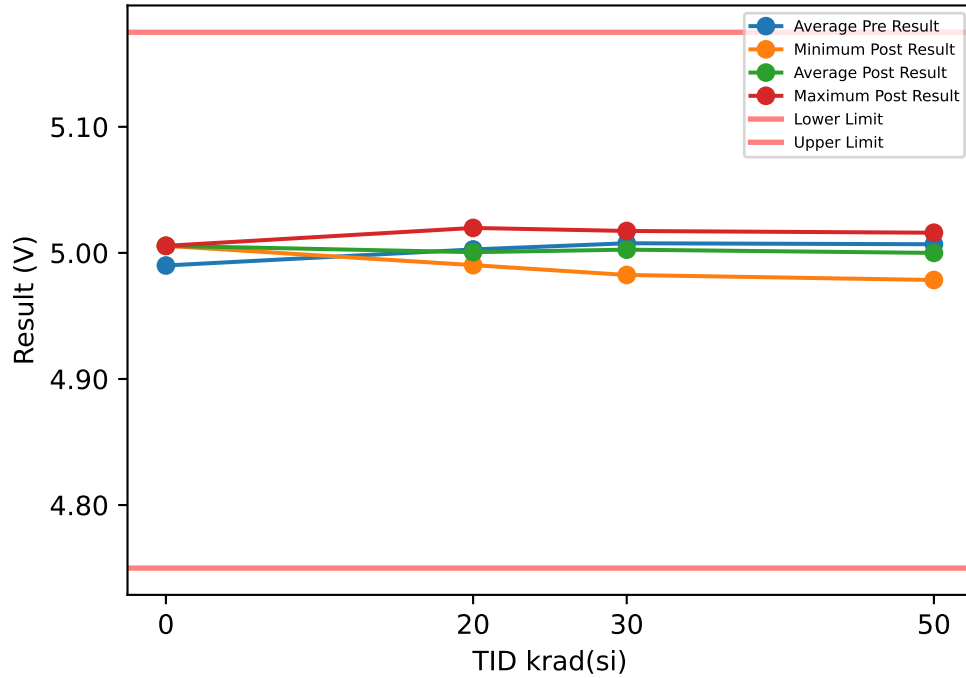


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.028 | 5.028 | 5.028 | | 5.015 | 5.015 | 5.015 | | -0.013 | -0.013 | -0.013 | |
| 20 | 4.9955 | 5.0096 | 5.031 | 0.011555 | 4.9957 | 5.0091 | 5.0305 | 0.011633 | -0.0086 | -0.00043 | 0.0106 | 0.005094 |
| 30 | 4.9942 | 5.0149 | 5.0323 | 0.01322 | 4.9876 | 5.0104 | 5.029 | 0.014264 | -0.0351 | -0.00451 | 0.0244 | 0.017901 |
| 50 | 5.002 | 5.0159 | 5.0273 | 0.0092481 | 4.9985 | 5.0133 | 5.025 | 0.0089474 | -0.0213 | -0.00265 | 0.0098 | 0.0086172 |

Device Test: 62.23 V_BP5H(_V_BP5H IIM 5MHz VIN_14V)

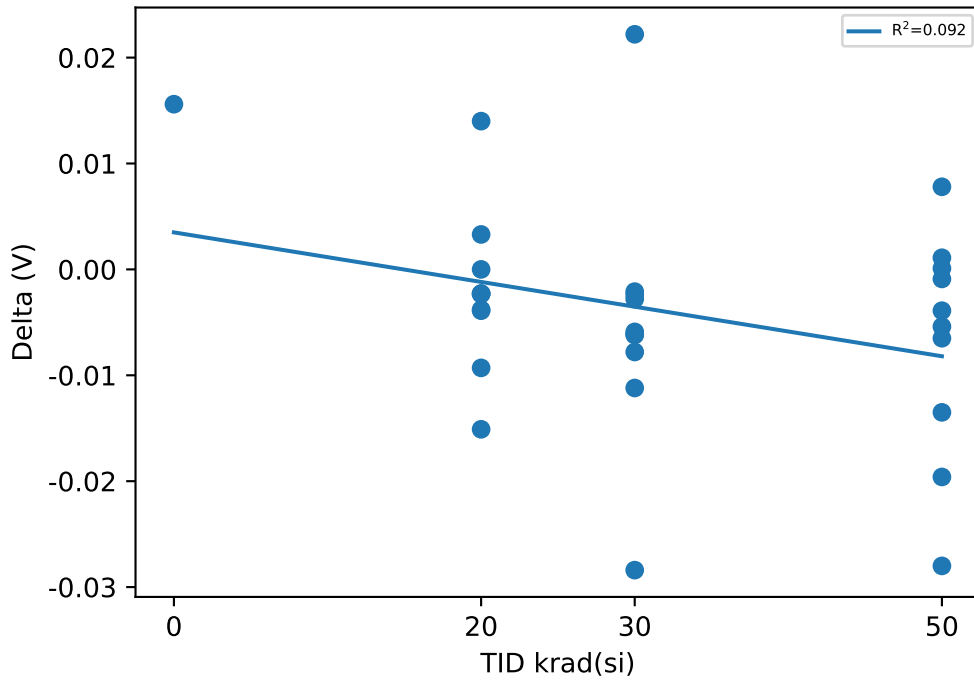
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.99 | 5.0056 | 0.0156 |
| 321 | 20 | HDR unbiased | 4.9933 | 4.9933 | 0 |
| 322 | 20 | HDR unbiased | 5.0237 | 5.0198 | -0.0039 |
| 323 | 20 | HDR unbiased | 5.011 | 5.0017 | -0.0093 |
| 324 | 20 | HDR unbiased | 4.9956 | 4.9933 | -0.0023 |
| 325 | 20 | HDR unbiased | 4.9959 | 4.9992 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9925 | 4.9866 | -0.0059 |
| 332 | 30 | HDR unbiased | 5.0135 | 5.0107 | -0.0028 |
| 333 | 30 | HDR unbiased | 5.0236 | 5.0174 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9925 | 4.9901 | -0.0024 |
| 335 | 30 | HDR unbiased | 4.9903 | 4.9825 | -0.0078 |
| 351 | 50 | HDR unbiased | 4.9981 | 4.9785 | -0.0196 |
| 352 | 50 | HDR unbiased | 5.009 | 4.9955 | -0.0135 |
| 353 | 50 | HDR unbiased | 4.99 | 4.9901 | 0.0001 |
| 354 | 50 | HDR unbiased | 5.0027 | 5.0105 | 0.0078 |
| 355 | 50 | HDR unbiased | 5.0201 | 4.9921 | -0.028 |
| 521 | 20 | HDR biased | 4.9941 | 4.9903 | -0.0038 |
| 522 | 20 | HDR biased | 5.0123 | 5.01 | -0.0023 |
| 523 | 20 | HDR biased | 4.9988 | 4.9965 | -0.0023 |
| 524 | 20 | HDR biased | 4.9953 | 5.0093 | 0.014 |
| 525 | 20 | HDR biased | 5.0074 | 4.9923 | -0.0151 |
| 531 | 30 | HDR biased | 5.0181 | 5.012 | -0.0061 |
| 532 | 30 | HDR biased | 5.0162 | 4.9878 | -0.0284 |
| 533 | 30 | HDR biased | 4.9905 | 5.0127 | 0.0222 |
| 534 | 30 | HDR biased | 5.0229 | 5.0117 | -0.0112 |
| 535 | 30 | HDR biased | 5.0163 | 5.0142 | -0.0021 |
| 551 | 50 | HDR biased | 4.9947 | 4.9893 | -0.0054 |
| 552 | 50 | HDR biased | 5.0118 | 5.0053 | -0.0065 |
| 553 | 50 | HDR biased | 5.0105 | 5.0096 | -0.0009 |
| 554 | 50 | HDR biased | 5.0118 | 5.0129 | 0.0011 |
| 555 | 50 | HDR biased | 5.0199 | 5.016 | -0.0039 |

TID vs Post - Pre Exposure Delta

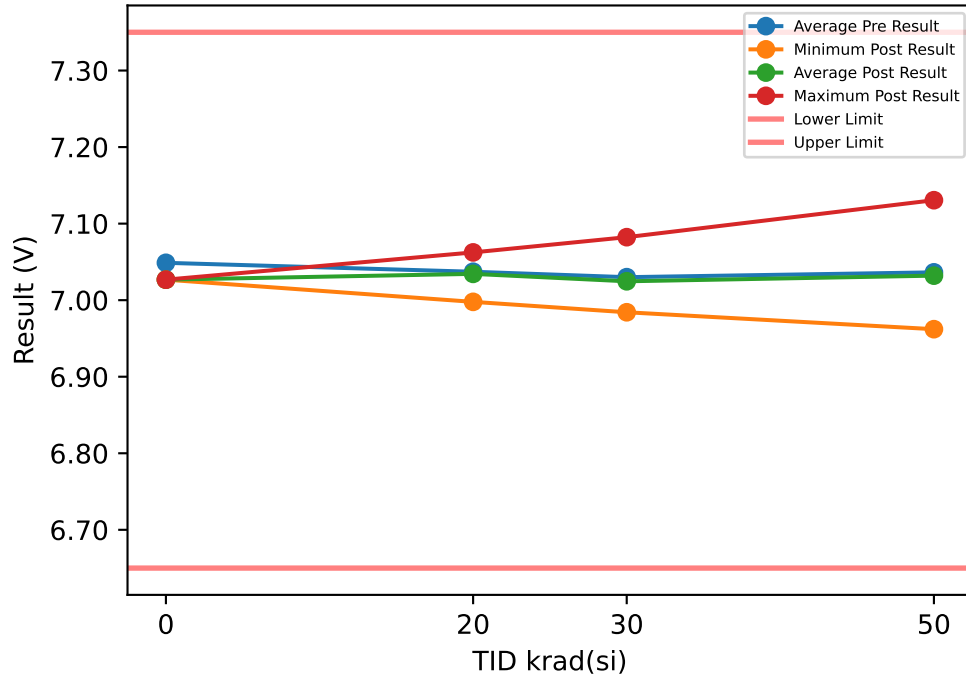


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.99 | 4.99 | 4.99 | | 5.0056 | 5.0056 | 5.0056 | | 0.0156 | 0.0156 | 0.0156 | |
| 20 | 4.9933 | 5.0027 | 5.0237 | 0.010291 | 4.9903 | 5.0006 | 5.0198 | 0.0096276 | -0.0151 | -0.00217 | 0.014 | 0.0075999 |
| 30 | 4.9903 | 5.0076 | 5.0236 | 0.014269 | 4.9825 | 5.0026 | 5.0174 | 0.013855 | -0.0284 | -0.00507 | 0.0222 | 0.01228 |
| 50 | 4.99 | 5.0069 | 5.0201 | 0.01021 | 4.9785 | 5 | 5.016 | 0.012518 | -0.028 | -0.00688 | 0.0078 | 0.01068 |

Device Test: 62.3 V_BP7L(_V_BP7L PWM 1MHz VIN_14V)

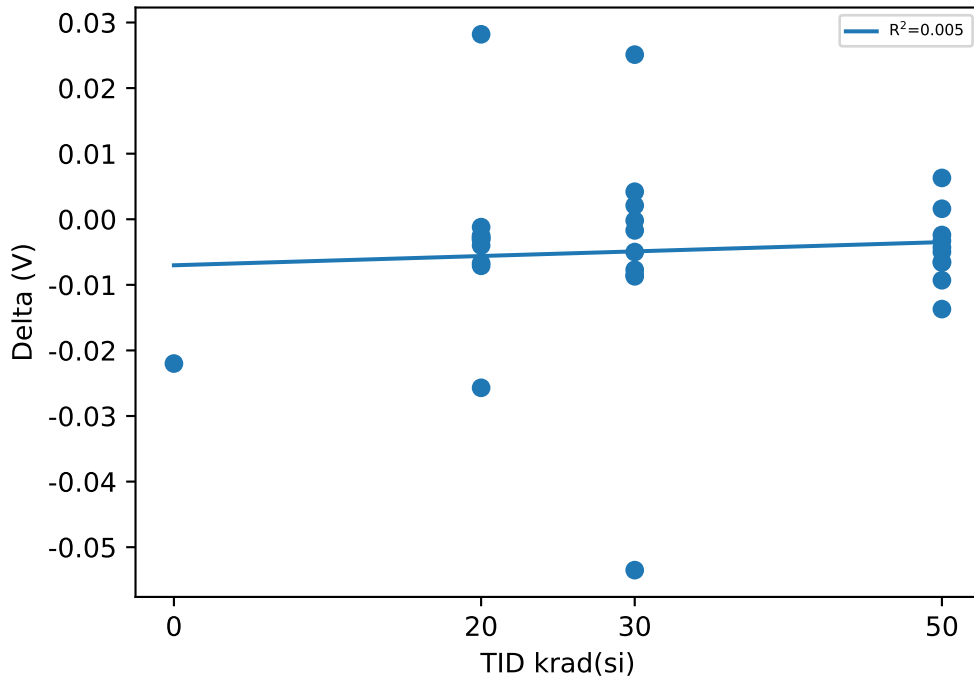
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0488 | 7.0268 | -0.022 |
| 321 | 20 | HDR unbiased | 7.0664 | 7.0624 | -0.004 |
| 322 | 20 | HDR unbiased | 7.059 | 7.0563 | -0.0027 |
| 323 | 20 | HDR unbiased | 7.0106 | 7.0035 | -0.0071 |
| 324 | 20 | HDR unbiased | 7.0271 | 7.0241 | -0.003 |
| 325 | 20 | HDR unbiased | 7.0622 | 7.0597 | -0.0025 |
| 331 | 30 | HDR unbiased | 7.0056 | 7.0006 | -0.005 |
| 332 | 30 | HDR unbiased | 6.9929 | 6.9842 | -0.0087 |
| 333 | 30 | HDR unbiased | 7.0262 | 7.0185 | -0.0077 |
| 334 | 30 | HDR unbiased | 7.0194 | 7.0236 | 0.0042 |
| 335 | 30 | HDR unbiased | 6.984 | 6.9861 | 0.0021 |
| 351 | 50 | HDR unbiased | 7.0043 | 7.0106 | 0.0063 |
| 352 | 50 | HDR unbiased | 6.9664 | 6.9621 | -0.0043 |
| 353 | 50 | HDR unbiased | 7.014 | 7.0003 | -0.0137 |
| 354 | 50 | HDR unbiased | 7.0676 | 7.0643 | -0.0033 |
| 355 | 50 | HDR unbiased | 7.0656 | 7.0672 | 0.0016 |
| 521 | 20 | HDR biased | 7.0077 | 7.001 | -0.0067 |
| 522 | 20 | HDR biased | 7.0513 | 7.0501 | -0.0012 |
| 523 | 20 | HDR biased | 7.0009 | 6.9978 | -0.0031 |
| 524 | 20 | HDR biased | 7.0576 | 7.0319 | -0.0257 |
| 525 | 20 | HDR biased | 7.0286 | 7.0568 | 0.0282 |
| 531 | 30 | HDR biased | 7.0618 | 7.0533 | -0.0085 |
| 532 | 30 | HDR biased | 7.0094 | 7.0345 | 0.0251 |
| 533 | 30 | HDR biased | 7.0553 | 7.0018 | -0.0535 |
| 534 | 30 | HDR biased | 7.084 | 7.0823 | -0.0017 |
| 535 | 30 | HDR biased | 7.0619 | 7.0617 | -0.0002 |
| 551 | 50 | HDR biased | 7.0224 | 7.02 | -0.0024 |
| 552 | 50 | HDR biased | 7.0489 | 7.0439 | -0.005 |
| 553 | 50 | HDR biased | 7.024 | 7.0174 | -0.0066 |
| 554 | 50 | HDR biased | 7.0105 | 7.004 | -0.0065 |
| 555 | 50 | HDR biased | 7.1399 | 7.1306 | -0.0093 |

TID vs Post - Pre Exposure Delta

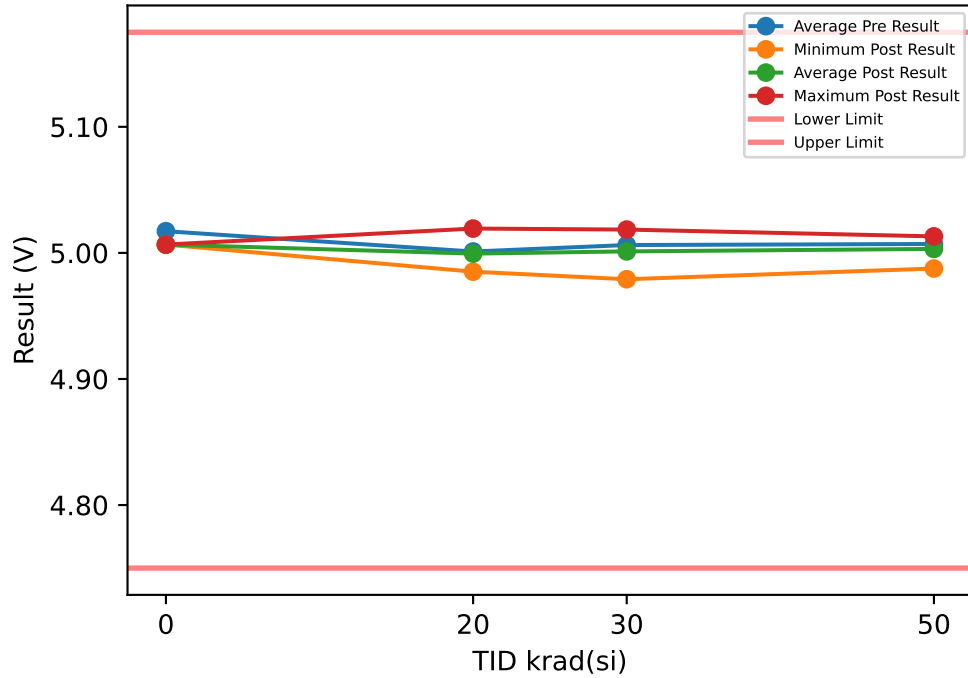


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0488 | 7.0488 | 7.0488 | | 7.0268 | 7.0268 | 7.0268 | | -0.022 | -0.022 | -0.022 | |
| 20 | 7.0009 | 7.0371 | 7.0664 | 0.025032 | 6.9978 | 7.0344 | 7.0624 | 0.026192 | -0.0257 | -0.00278 | 0.0282 | 0.01301 |
| 30 | 6.984 | 7.0301 | 7.084 | 0.033704 | 6.9842 | 7.0247 | 7.0823 | 0.033126 | -0.0535 | -0.00539 | 0.0251 | 0.019604 |
| 50 | 6.9664 | 7.0364 | 7.1399 | 0.047314 | 6.9621 | 7.032 | 7.1306 | 0.046709 | -0.0137 | -0.00432 | 0.0063 | 0.0055353 |

Device Test: 62.4 V_BP5L(_V_BP5L PWM 1MHz VIN_14V)

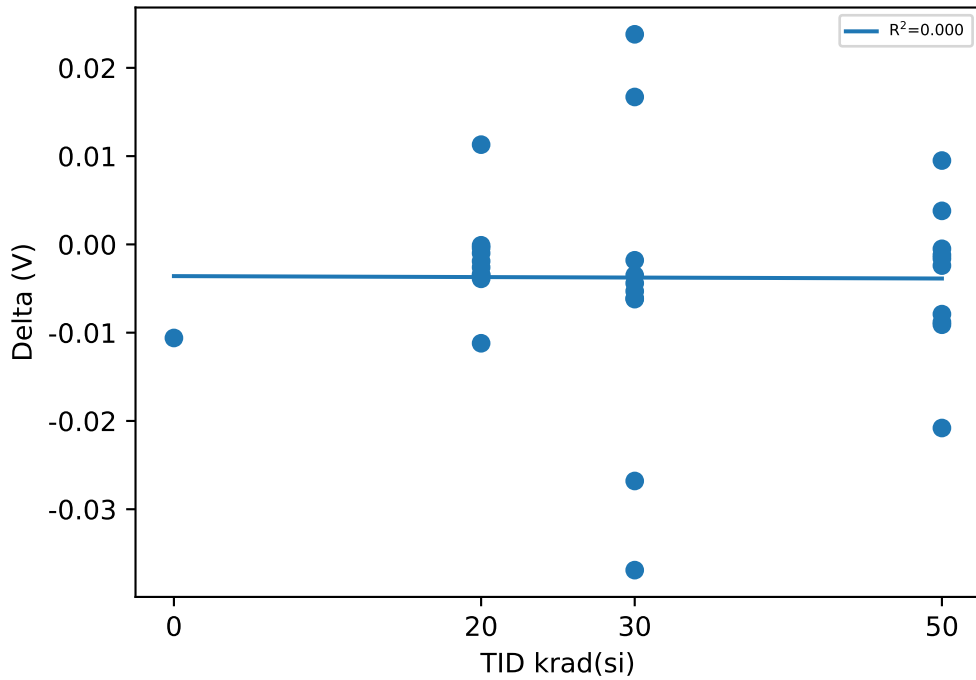
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0172 | 5.0066 | -0.0106 |
| 321 | 20 | HDR unbiased | 4.9902 | 4.9901 | -0.0001 |
| 322 | 20 | HDR unbiased | 5.0166 | 5.0147 | -0.0019 |
| 323 | 20 | HDR unbiased | 4.9976 | 4.9972 | -0.0004 |
| 324 | 20 | HDR unbiased | 4.9953 | 4.9919 | -0.0034 |
| 325 | 20 | HDR unbiased | 5.0034 | 4.9995 | -0.0039 |
| 331 | 30 | HDR unbiased | 5 | 4.9947 | -0.0053 |
| 332 | 30 | HDR unbiased | 5.0013 | 4.9969 | -0.0044 |
| 333 | 30 | HDR unbiased | 5.0148 | 5.0086 | -0.0062 |
| 334 | 30 | HDR unbiased | 4.9973 | 4.9912 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.0189 | 5.0171 | -0.0018 |
| 351 | 50 | HDR unbiased | 5.0115 | 4.9907 | -0.0208 |
| 352 | 50 | HDR unbiased | 4.9967 | 4.9876 | -0.0091 |
| 353 | 50 | HDR unbiased | 4.9943 | 5.0038 | 0.0095 |
| 354 | 50 | HDR unbiased | 5.0119 | 5.0107 | -0.0012 |
| 355 | 50 | HDR unbiased | 5.0187 | 5.0099 | -0.0088 |
| 521 | 20 | HDR biased | 5.0228 | 5.0193 | -0.0035 |
| 522 | 20 | HDR biased | 4.9936 | 4.991 | -0.0026 |
| 523 | 20 | HDR biased | 4.9861 | 4.9851 | -0.001 |
| 524 | 20 | HDR biased | 4.9972 | 5.0085 | 0.0113 |
| 525 | 20 | HDR biased | 5.0082 | 4.997 | -0.0112 |
| 531 | 30 | HDR biased | 5.0059 | 4.9791 | -0.0268 |
| 532 | 30 | HDR biased | 5.0227 | 4.9858 | -0.0369 |
| 533 | 30 | HDR biased | 4.9934 | 5.0172 | 0.0238 |
| 534 | 30 | HDR biased | 5.022 | 5.0185 | -0.0035 |
| 535 | 30 | HDR biased | 4.9861 | 5.0028 | 0.0167 |
| 551 | 50 | HDR biased | 5.001 | 5.0005 | -0.0005 |
| 552 | 50 | HDR biased | 5.004 | 5.0024 | -0.0016 |
| 553 | 50 | HDR biased | 5.0155 | 5.0131 | -0.0024 |
| 554 | 50 | HDR biased | 5.0163 | 5.0084 | -0.0079 |
| 555 | 50 | HDR biased | 5.0007 | 5.0045 | 0.0038 |

TID vs Post - Pre Exposure Delta

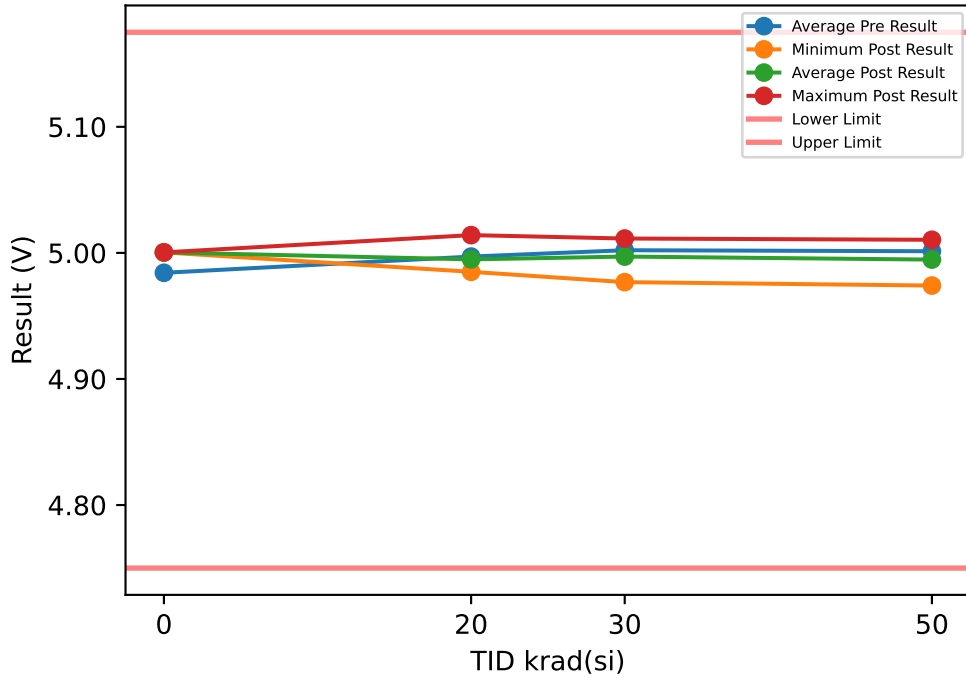


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0172 | 5.0172 | 5.0172 | | 5.0066 | 5.0066 | 5.0066 | | -0.0106 | -0.0106 | -0.0106 | |
| 20 | 4.9861 | 5.0011 | 5.0228 | 0.011681 | 4.9851 | 4.9994 | 5.0193 | 0.011261 | -0.0112 | -0.00167 | 0.0113 | 0.0055358 |
| 30 | 4.9861 | 5.0062 | 5.0227 | 0.012766 | 4.9791 | 5.0012 | 5.0185 | 0.013951 | -0.0369 | -0.00505 | 0.0238 | 0.017666 |
| 50 | 4.9943 | 5.0071 | 5.0187 | 0.0087681 | 4.9876 | 5.0032 | 5.0131 | 0.0084048 | -0.0208 | -0.0039 | 0.0095 | 0.0082859 |

Device Test: 62.5 V_BP5H(_V_BP5H PWM 1MHz VIN_14V)

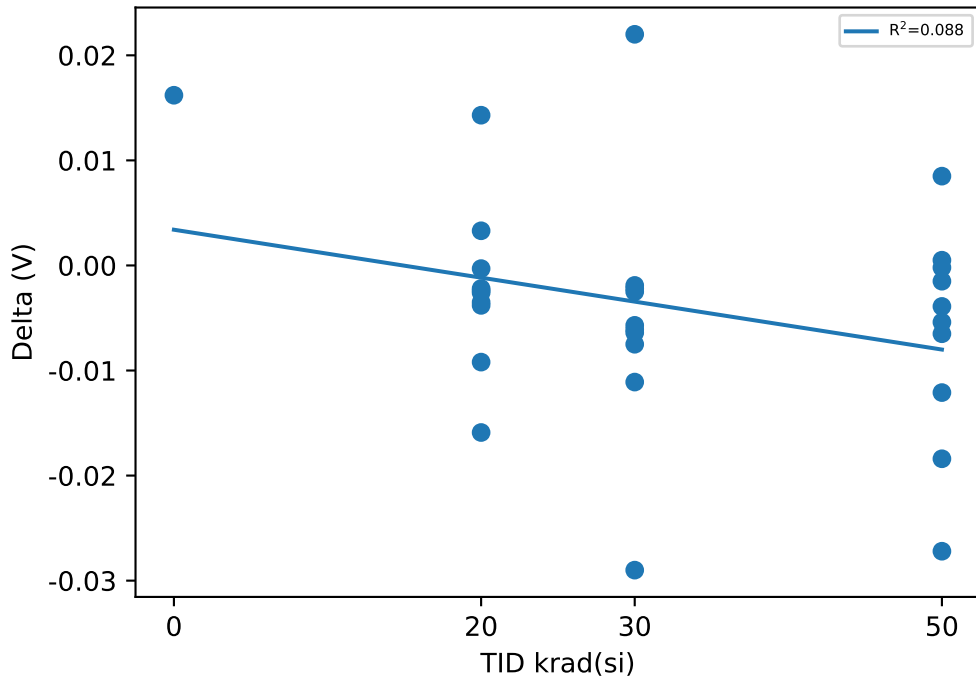
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9842 | 5.0004 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9875 | 4.9872 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0176 | 5.0141 | -0.0035 |
| 323 | 20 | HDR unbiased | 5.0054 | 4.9962 | -0.0092 |
| 324 | 20 | HDR unbiased | 4.9899 | 4.9875 | -0.0024 |
| 325 | 20 | HDR unbiased | 4.9902 | 4.9935 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9867 | 4.981 | -0.0057 |
| 332 | 30 | HDR unbiased | 5.0077 | 5.0052 | -0.0025 |
| 333 | 30 | HDR unbiased | 5.0178 | 5.0114 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.9867 | 4.9848 | -0.0019 |
| 335 | 30 | HDR unbiased | 4.9843 | 4.9768 | -0.0075 |
| 351 | 50 | HDR unbiased | 4.9925 | 4.9741 | -0.0184 |
| 352 | 50 | HDR unbiased | 5.0027 | 4.9906 | -0.0121 |
| 353 | 50 | HDR unbiased | 4.9847 | 4.9845 | -0.0002 |
| 354 | 50 | HDR unbiased | 4.9973 | 5.0058 | 0.0085 |
| 355 | 50 | HDR unbiased | 5.0144 | 4.9872 | -0.0272 |
| 521 | 20 | HDR biased | 4.9888 | 4.985 | -0.0038 |
| 522 | 20 | HDR biased | 5.0065 | 5.0043 | -0.0022 |
| 523 | 20 | HDR biased | 4.9933 | 4.9907 | -0.0026 |
| 524 | 20 | HDR biased | 4.9895 | 5.0038 | 0.0143 |
| 525 | 20 | HDR biased | 5.0021 | 4.9862 | -0.0159 |
| 531 | 30 | HDR biased | 5.0128 | 5.0067 | -0.0061 |
| 532 | 30 | HDR biased | 5.011 | 4.982 | -0.029 |
| 533 | 30 | HDR biased | 4.9856 | 5.0076 | 0.022 |
| 534 | 30 | HDR biased | 5.0179 | 5.0068 | -0.0111 |
| 535 | 30 | HDR biased | 5.0107 | 5.0085 | -0.0022 |
| 551 | 50 | HDR biased | 4.9893 | 4.9839 | -0.0054 |
| 552 | 50 | HDR biased | 5.0065 | 5 | -0.0065 |
| 553 | 50 | HDR biased | 5.0051 | 5.0036 | -0.0015 |
| 554 | 50 | HDR biased | 5.0063 | 5.0068 | 0.0005 |
| 555 | 50 | HDR biased | 5.0143 | 5.0104 | -0.0039 |

TID vs Post - Pre Exposure Delta

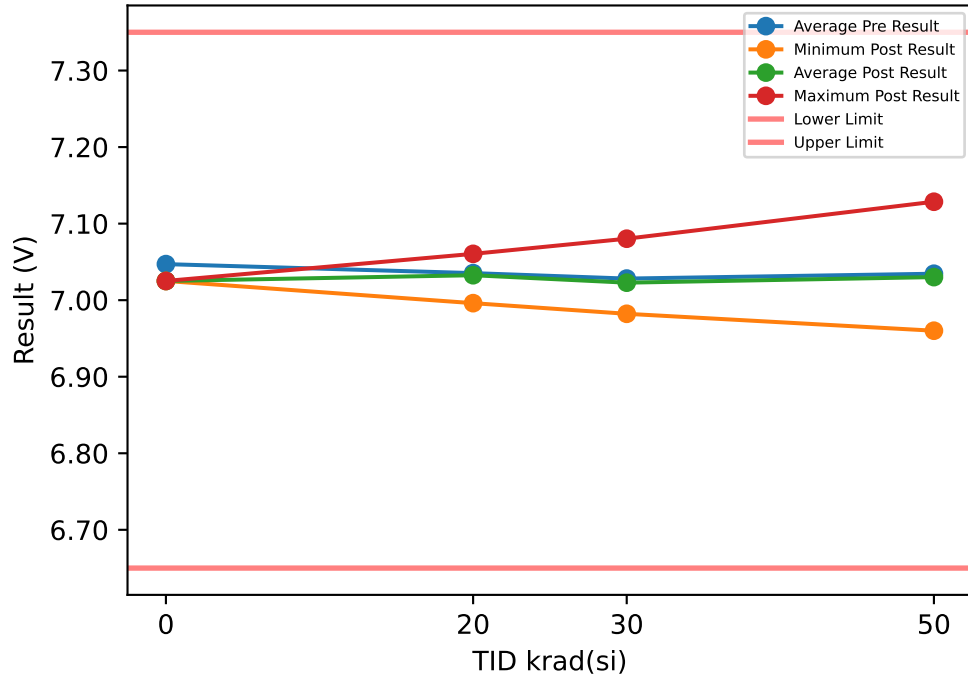


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9842 | 4.9842 | 4.9842 | | 5.0004 | 5.0004 | 5.0004 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9875 | 4.9971 | 5.0176 | 0.010194 | 4.985 | 4.9949 | 5.0141 | 0.0096909 | -0.0159 | -0.00223 | 0.0143 | 0.0077977 |
| 30 | 4.9843 | 5.0021 | 5.0179 | 0.01437 | 4.9768 | 4.9971 | 5.0114 | 0.013933 | -0.029 | -0.00504 | 0.022 | 0.012364 |
| 50 | 4.9847 | 5.0013 | 5.0144 | 0.010122 | 4.9741 | 4.9947 | 5.0104 | 0.012209 | -0.0272 | -0.00662 | 0.0085 | 0.010263 |

Device Test: 62.6 V_BP7L(_V_BP7L PWM 2MHz VIN_14V)

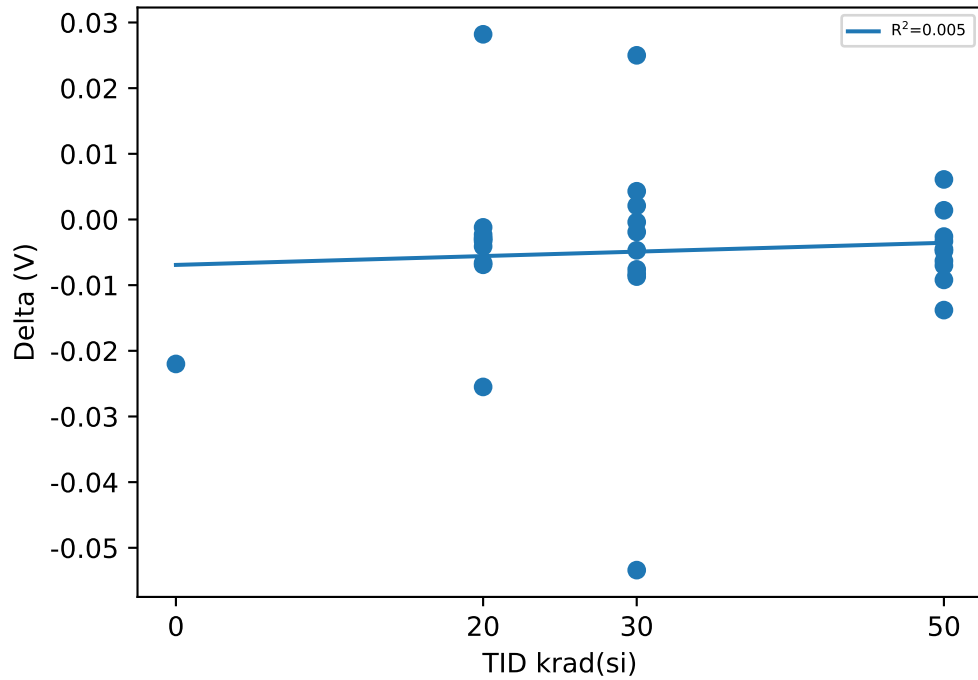
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0471 | 7.0251 | -0.022 |
| 321 | 20 | HDR unbiased | 7.0646 | 7.0605 | -0.0041 |
| 322 | 20 | HDR unbiased | 7.0572 | 7.0544 | -0.0028 |
| 323 | 20 | HDR unbiased | 7.0087 | 7.0018 | -0.0069 |
| 324 | 20 | HDR unbiased | 7.0255 | 7.0222 | -0.0033 |
| 325 | 20 | HDR unbiased | 7.0604 | 7.0581 | -0.0023 |
| 331 | 30 | HDR unbiased | 7.0035 | 6.9988 | -0.0047 |
| 332 | 30 | HDR unbiased | 6.9909 | 6.9822 | -0.0087 |
| 333 | 30 | HDR unbiased | 7.0244 | 7.0168 | -0.0076 |
| 334 | 30 | HDR unbiased | 7.0178 | 7.0221 | 0.0043 |
| 335 | 30 | HDR unbiased | 6.9823 | 6.9844 | 0.0021 |
| 351 | 50 | HDR unbiased | 7.0025 | 7.0086 | 0.0061 |
| 352 | 50 | HDR unbiased | 6.9646 | 6.9601 | -0.0045 |
| 353 | 50 | HDR unbiased | 7.0122 | 6.9984 | -0.0138 |
| 354 | 50 | HDR unbiased | 7.0659 | 7.0626 | -0.0033 |
| 355 | 50 | HDR unbiased | 7.0638 | 7.0652 | 0.0014 |
| 521 | 20 | HDR biased | 7.0057 | 6.9991 | -0.0066 |
| 522 | 20 | HDR biased | 7.0496 | 7.0484 | -0.0012 |
| 523 | 20 | HDR biased | 6.9991 | 6.9961 | -0.003 |
| 524 | 20 | HDR biased | 7.0557 | 7.0302 | -0.0255 |
| 525 | 20 | HDR biased | 7.0269 | 7.0551 | 0.0282 |
| 531 | 30 | HDR biased | 7.0599 | 7.0516 | -0.0083 |
| 532 | 30 | HDR biased | 7.0075 | 7.0325 | 0.025 |
| 533 | 30 | HDR biased | 7.0536 | 7.0002 | -0.0534 |
| 534 | 30 | HDR biased | 7.0822 | 7.0803 | -0.0019 |
| 535 | 30 | HDR biased | 7.0601 | 7.0597 | -0.0004 |
| 551 | 50 | HDR biased | 7.0207 | 7.0181 | -0.0026 |
| 552 | 50 | HDR biased | 7.047 | 7.0422 | -0.0048 |
| 553 | 50 | HDR biased | 7.0223 | 7.0153 | -0.007 |
| 554 | 50 | HDR biased | 7.0086 | 7.0023 | -0.0063 |
| 555 | 50 | HDR biased | 7.1378 | 7.1286 | -0.0092 |

TID vs Post - Pre Exposure Delta

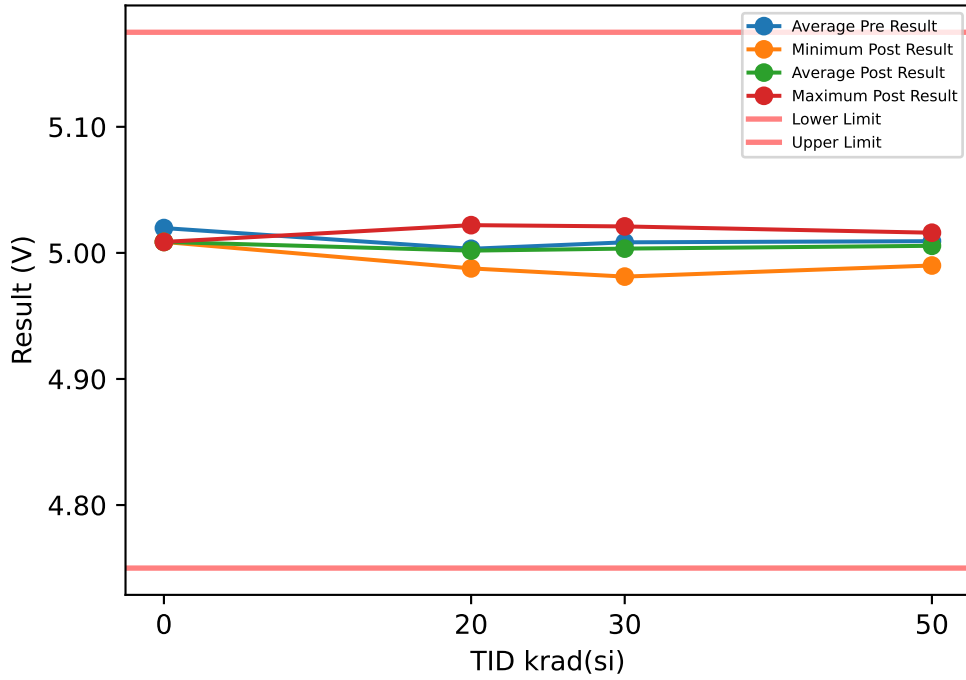


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0471 | 7.0471 | 7.0471 | | 7.0251 | 7.0251 | 7.0251 | | -0.022 | -0.022 | -0.022 | |
| 20 | 6.9991 | 7.0353 | 7.0646 | 0.025054 | 6.9961 | 7.0326 | 7.0605 | 0.026198 | -0.0255 | -0.00275 | 0.0282 | 0.012963 |
| 30 | 6.9823 | 7.0282 | 7.0822 | 0.033736 | 6.9822 | 7.0229 | 7.0803 | 0.033061 | -0.0534 | -0.00536 | 0.025 | 0.019552 |
| 50 | 6.9646 | 7.0345 | 7.1378 | 0.047245 | 6.9601 | 7.0301 | 7.1286 | 0.046714 | -0.0138 | -0.0044 | 0.0061 | 0.0054801 |

Device Test: 62.7 V_BP5L(_V_BP5L PWM 2MHz VIN_14V)

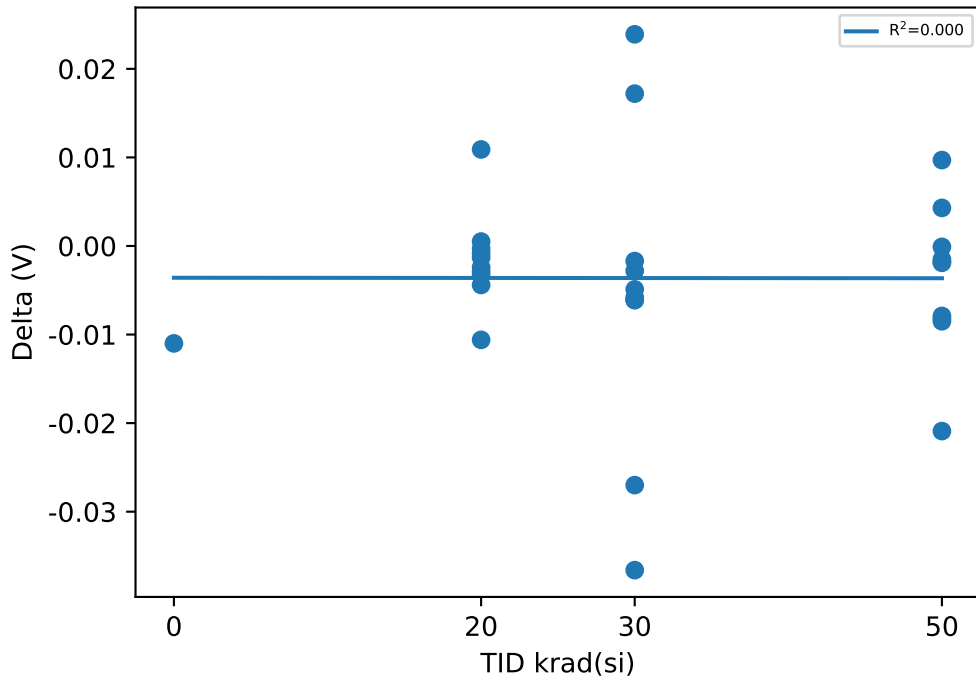
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 5.0197 | 5.0087 | -0.011 |
| 321 | 20 | HDR unbiased | 4.9921 | 4.9926 | 0.0005 |
| 322 | 20 | HDR unbiased | 5.0185 | 5.0172 | -0.0013 |
| 323 | 20 | HDR unbiased | 5 | 4.9997 | -0.0003 |
| 324 | 20 | HDR unbiased | 4.9972 | 4.9939 | -0.0033 |
| 325 | 20 | HDR unbiased | 5.006 | 5.0016 | -0.0044 |
| 331 | 30 | HDR unbiased | 5.0023 | 4.9965 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.0037 | 4.9988 | -0.0049 |
| 333 | 30 | HDR unbiased | 5.0174 | 5.0113 | -0.0061 |
| 334 | 30 | HDR unbiased | 4.9991 | 4.993 | -0.0061 |
| 335 | 30 | HDR unbiased | 5.021 | 5.0193 | -0.0017 |
| 351 | 50 | HDR unbiased | 5.0137 | 4.9928 | -0.0209 |
| 352 | 50 | HDR unbiased | 4.9985 | 4.99 | -0.0085 |
| 353 | 50 | HDR unbiased | 4.9962 | 5.0059 | 0.0097 |
| 354 | 50 | HDR unbiased | 5.0148 | 5.013 | -0.0018 |
| 355 | 50 | HDR unbiased | 5.0209 | 5.013 | -0.0079 |
| 521 | 20 | HDR biased | 5.0249 | 5.022 | -0.0029 |
| 522 | 20 | HDR biased | 4.9955 | 4.9931 | -0.0024 |
| 523 | 20 | HDR biased | 4.9885 | 4.9877 | -0.0008 |
| 524 | 20 | HDR biased | 4.9997 | 5.0106 | 0.0109 |
| 525 | 20 | HDR biased | 5.0101 | 4.9995 | -0.0106 |
| 531 | 30 | HDR biased | 5.0082 | 4.9812 | -0.027 |
| 532 | 30 | HDR biased | 5.0251 | 4.9885 | -0.0366 |
| 533 | 30 | HDR biased | 4.9953 | 5.0192 | 0.0239 |
| 534 | 30 | HDR biased | 5.0238 | 5.021 | -0.0028 |
| 535 | 30 | HDR biased | 4.988 | 5.0052 | 0.0172 |
| 551 | 50 | HDR biased | 5.0029 | 5.0028 | -0.0001 |
| 552 | 50 | HDR biased | 5.0064 | 5.0045 | -0.0019 |
| 553 | 50 | HDR biased | 5.0175 | 5.016 | -0.0015 |
| 554 | 50 | HDR biased | 5.0189 | 5.0107 | -0.0082 |
| 555 | 50 | HDR biased | 5.0032 | 5.0075 | 0.0043 |

TID vs Post - Pre Exposure Delta

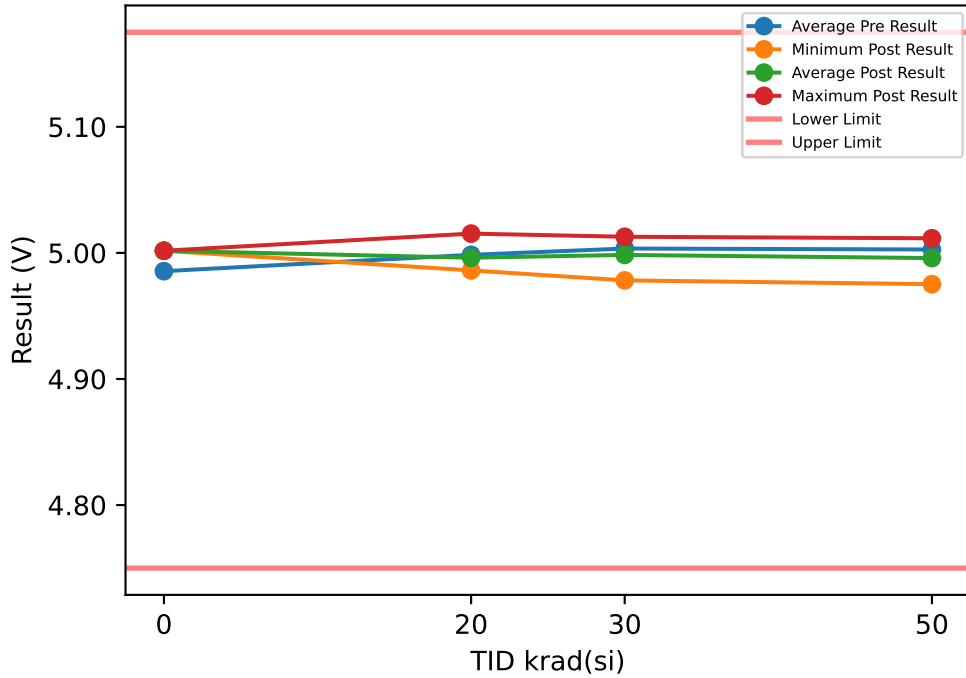


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 5.0197 | 5.0197 | 5.0197 | | 5.0087 | 5.0087 | 5.0087 | | -0.011 | -0.011 | -0.011 | |
| 20 | 4.9885 | 5.0032 | 5.0249 | 0.011631 | 4.9877 | 5.0018 | 5.022 | 0.011323 | -0.0106 | -0.00146 | 0.0109 | 0.0053432 |
| 30 | 4.988 | 5.0084 | 5.0251 | 0.012864 | 4.9812 | 5.0034 | 5.021 | 0.014022 | -0.0366 | -0.00499 | 0.0239 | 0.017731 |
| 50 | 4.9962 | 5.0093 | 5.0209 | 0.0089343 | 4.99 | 5.0056 | 5.016 | 0.008587 | -0.0209 | -0.00368 | 0.0097 | 0.0083332 |

Device Test: 62.8 V_BP5H(V_BP5H PWM 2MHz VIN_14V)

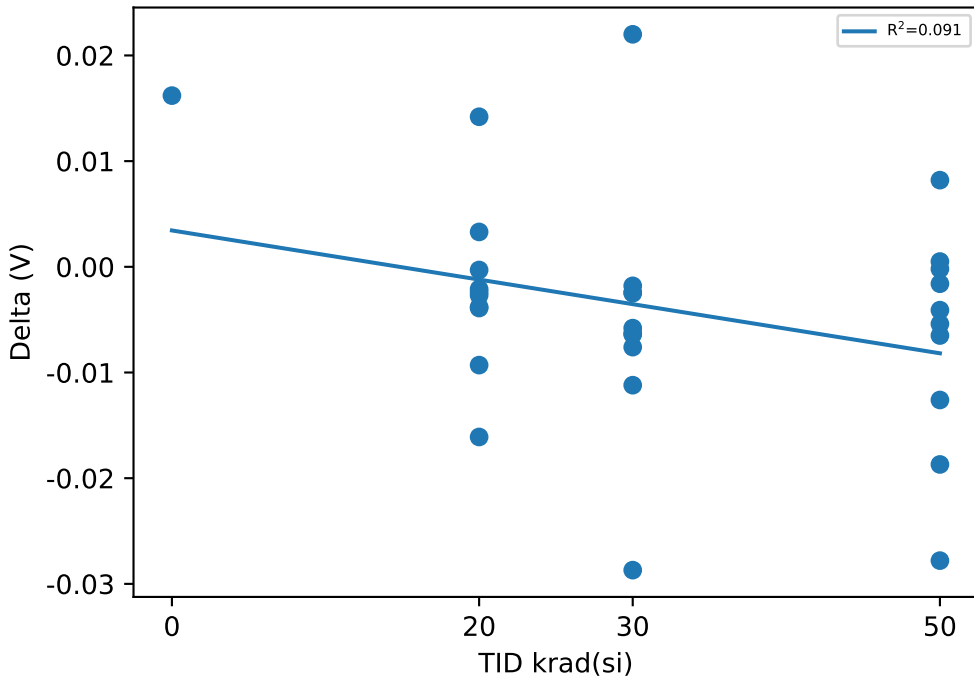
TID vs Result Stats



Test Results (Lower Limit = 4.75, Upper Limit = 5.175 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 4.9855 | 5.0017 | 0.0162 |
| 321 | 20 | HDR unbiased | 4.9889 | 4.9886 | -0.0003 |
| 322 | 20 | HDR unbiased | 5.0191 | 5.0153 | -0.0038 |
| 323 | 20 | HDR unbiased | 5.0068 | 4.9975 | -0.0093 |
| 324 | 20 | HDR unbiased | 4.9913 | 4.9889 | -0.0024 |
| 325 | 20 | HDR unbiased | 4.9916 | 4.9949 | 0.0033 |
| 331 | 30 | HDR unbiased | 4.9882 | 4.9824 | -0.0058 |
| 332 | 30 | HDR unbiased | 5.0091 | 5.0067 | -0.0024 |
| 333 | 30 | HDR unbiased | 5.0192 | 5.0128 | -0.0064 |
| 334 | 30 | HDR unbiased | 4.988 | 4.9862 | -0.0018 |
| 335 | 30 | HDR unbiased | 4.9858 | 4.9782 | -0.0076 |
| 351 | 50 | HDR unbiased | 4.9939 | 4.9752 | -0.0187 |
| 352 | 50 | HDR unbiased | 5.0044 | 4.9918 | -0.0126 |
| 353 | 50 | HDR unbiased | 4.986 | 4.9858 | -0.0002 |
| 354 | 50 | HDR unbiased | 4.9987 | 5.0069 | 0.0082 |
| 355 | 50 | HDR unbiased | 5.0159 | 4.9881 | -0.0278 |
| 521 | 20 | HDR biased | 4.99 | 4.9861 | -0.0039 |
| 522 | 20 | HDR biased | 5.0078 | 5.0057 | -0.0021 |
| 523 | 20 | HDR biased | 4.9947 | 4.992 | -0.0027 |
| 524 | 20 | HDR biased | 4.9909 | 5.0051 | 0.0142 |
| 525 | 20 | HDR biased | 5.0036 | 4.9875 | -0.0161 |
| 531 | 30 | HDR biased | 5.0141 | 5.0078 | -0.0063 |
| 532 | 30 | HDR biased | 5.0123 | 4.9836 | -0.0287 |
| 533 | 30 | HDR biased | 4.9867 | 5.0087 | 0.022 |
| 534 | 30 | HDR biased | 5.019 | 5.0078 | -0.0112 |
| 535 | 30 | HDR biased | 5.0122 | 5.0097 | -0.0025 |
| 551 | 50 | HDR biased | 4.9906 | 4.9852 | -0.0054 |
| 552 | 50 | HDR biased | 5.0078 | 5.0013 | -0.0065 |
| 553 | 50 | HDR biased | 5.0065 | 5.0049 | -0.0016 |
| 554 | 50 | HDR biased | 5.0076 | 5.0081 | 0.0005 |
| 555 | 50 | HDR biased | 5.0157 | 5.0116 | -0.0041 |

TID vs Post - Pre Exposure Delta

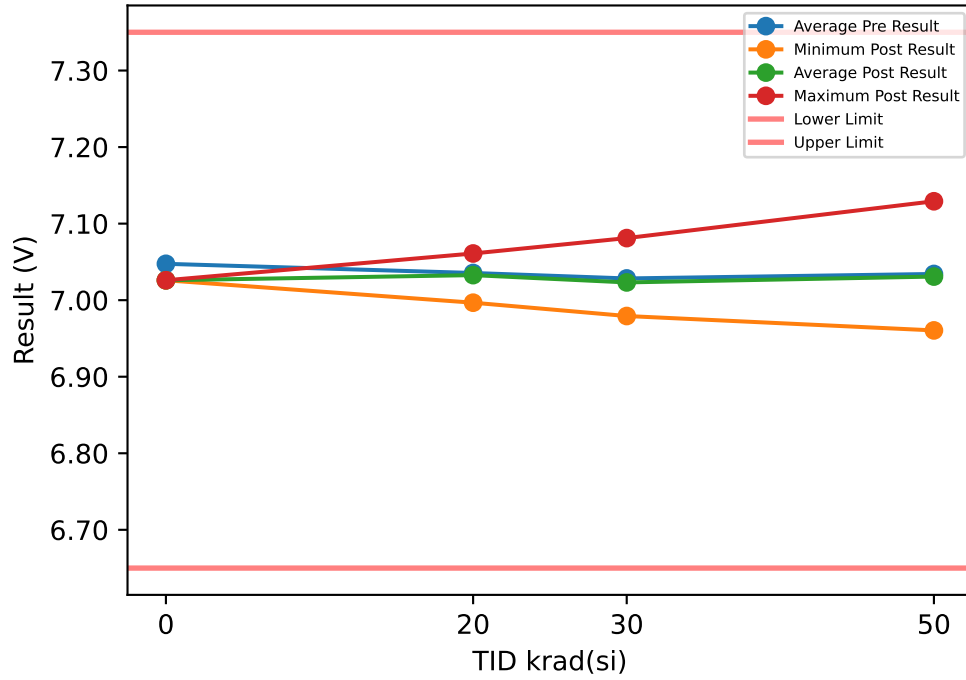


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 4.9855 | 4.9855 | 4.9855 | | 5.0017 | 5.0017 | 5.0017 | | 0.0162 | 0.0162 | 0.0162 | |
| 20 | 4.9889 | 4.9985 | 5.0191 | 0.01023 | 4.9861 | 4.9962 | 5.0153 | 0.009684 | -0.0161 | -0.00231 | 0.0142 | 0.007832 |
| 30 | 4.9858 | 5.0035 | 5.0192 | 0.014351 | 4.9782 | 4.9984 | 5.0128 | 0.013819 | -0.0287 | -0.00507 | 0.022 | 0.012308 |
| 50 | 4.986 | 5.0027 | 5.0159 | 0.010162 | 4.9752 | 4.9959 | 5.0116 | 0.012243 | -0.0278 | -0.00682 | 0.0082 | 0.010406 |

Device Test: 62.9 V_BP7L(_V_BP7L PWM 5MHz VIN_14V)

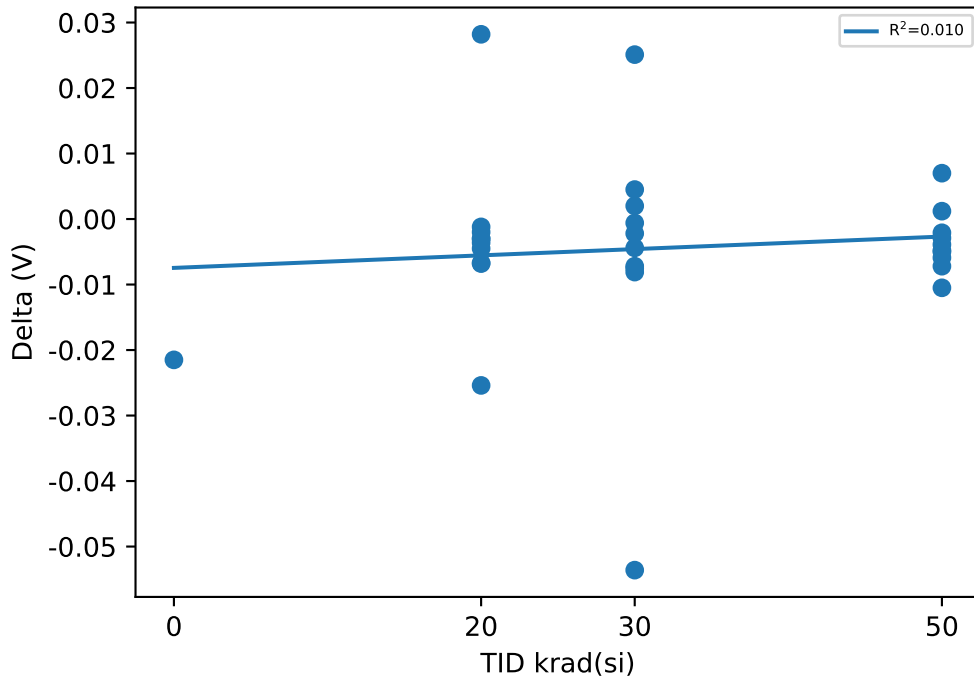
TID vs Result Stats



Test Results (Lower Limit = 6.65, Upper Limit = 7.35 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.0475 | 7.026 | -0.0215 |
| 321 | 20 | HDR unbiased | 7.0655 | 7.061 | -0.0045 |
| 322 | 20 | HDR unbiased | 7.0579 | 7.0549 | -0.003 |
| 323 | 20 | HDR unbiased | 7.0088 | 7.0021 | -0.0067 |
| 324 | 20 | HDR unbiased | 7.0228 | 7.0192 | -0.0036 |
| 325 | 20 | HDR unbiased | 7.0607 | 7.0587 | -0.002 |
| 331 | 30 | HDR unbiased | 7.0037 | 6.9993 | -0.0044 |
| 332 | 30 | HDR unbiased | 6.9865 | 6.9793 | -0.0072 |
| 333 | 30 | HDR unbiased | 7.0247 | 7.0172 | -0.0075 |
| 334 | 30 | HDR unbiased | 7.0186 | 7.0231 | 0.0045 |
| 335 | 30 | HDR unbiased | 6.9831 | 6.9851 | 0.002 |
| 351 | 50 | HDR unbiased | 7.0026 | 7.0096 | 0.007 |
| 352 | 50 | HDR unbiased | 6.9655 | 6.9605 | -0.005 |
| 353 | 50 | HDR unbiased | 7.0097 | 6.9992 | -0.0105 |
| 354 | 50 | HDR unbiased | 7.0664 | 7.0635 | -0.0029 |
| 355 | 50 | HDR unbiased | 7.0647 | 7.0659 | 0.0012 |
| 521 | 20 | HDR biased | 7.0063 | 6.9995 | -0.0068 |
| 522 | 20 | HDR biased | 7.0501 | 7.0489 | -0.0012 |
| 523 | 20 | HDR biased | 6.9997 | 6.9967 | -0.003 |
| 524 | 20 | HDR biased | 7.0561 | 7.0307 | -0.0254 |
| 525 | 20 | HDR biased | 7.0273 | 7.0555 | 0.0282 |
| 531 | 30 | HDR biased | 7.0607 | 7.0526 | -0.0081 |
| 532 | 30 | HDR biased | 7.0079 | 7.033 | 0.0251 |
| 533 | 30 | HDR biased | 7.0543 | 7.0007 | -0.0536 |
| 534 | 30 | HDR biased | 7.0833 | 7.0811 | -0.0022 |
| 535 | 30 | HDR biased | 7.0611 | 7.0605 | -0.0006 |
| 551 | 50 | HDR biased | 7.0212 | 7.0191 | -0.0021 |
| 552 | 50 | HDR biased | 7.0473 | 7.0425 | -0.0048 |
| 553 | 50 | HDR biased | 7.0229 | 7.0157 | -0.0072 |
| 554 | 50 | HDR biased | 7.009 | 7.0031 | -0.0059 |
| 555 | 50 | HDR biased | 7.1331 | 7.1292 | -0.0039 |

TID vs Post - Pre Exposure Delta

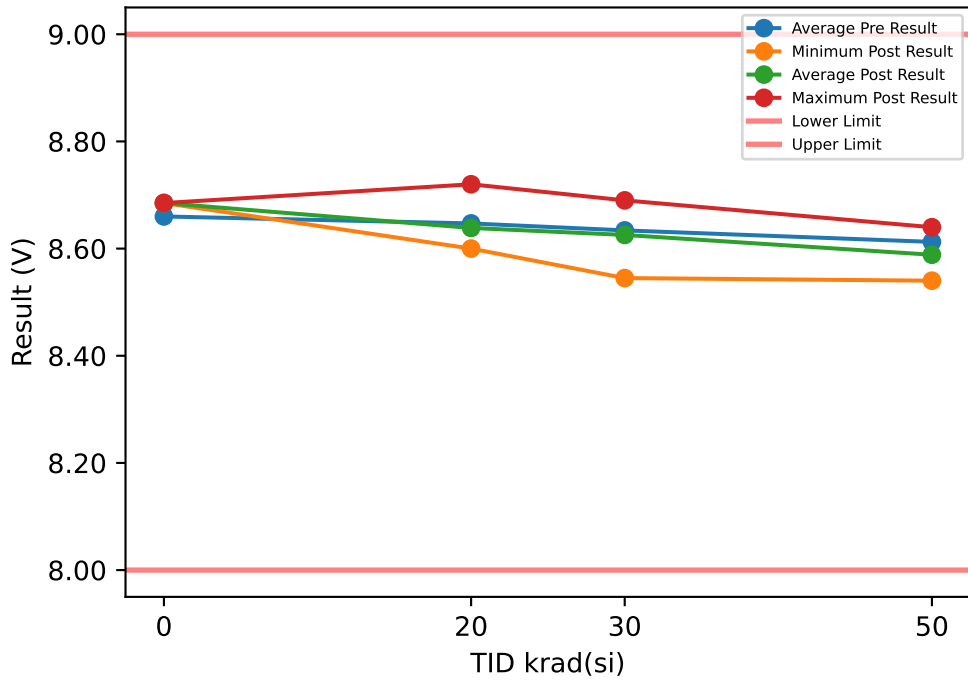


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.0475 | 7.0475 | 7.0475 | | 7.026 | 7.026 | 7.026 | | -0.0215 | -0.0215 | -0.0215 | |
| 20 | 6.9997 | 7.0355 | 7.0655 | 0.025276 | 6.9967 | 7.0327 | 7.061 | 0.0264 | -0.0254 | -0.0028 | 0.0282 | 0.012952 |
| 30 | 6.9831 | 7.0284 | 7.0833 | 0.034553 | 6.9793 | 7.0232 | 7.0811 | 0.033659 | -0.0536 | -0.0052 | 0.0251 | 0.019593 |
| 50 | 6.9655 | 7.0342 | 7.1331 | 0.046152 | 6.9605 | 7.0308 | 7.1292 | 0.046718 | -0.0105 | -0.00341 | 0.007 | 0.0047973 |

Device Test: 70.0 V_IN_TH_RISE(_UVLO VIN Rise Thresh)

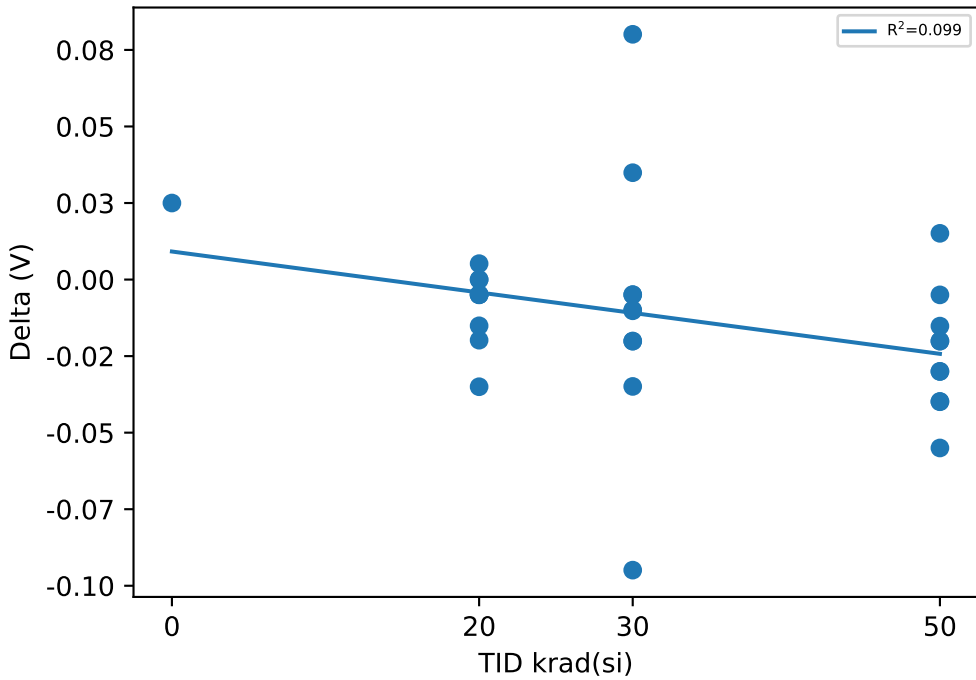
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 9.0 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.66 | 8.685 | 0.025 |
| 321 | 20 | HDR unbiased | 8.6399 | 8.635 | -0.0049 |
| 322 | 20 | HDR unbiased | 8.66 | 8.66 | 0 |
| 323 | 20 | HDR unbiased | 8.6399 | 8.635 | -0.0049 |
| 324 | 20 | HDR unbiased | 8.6399 | 8.635 | -0.0049 |
| 325 | 20 | HDR unbiased | 8.605 | 8.605 | 0 |
| 331 | 30 | HDR unbiased | 8.6149 | 8.6099 | -0.005 |
| 332 | 30 | HDR unbiased | 8.66 | 8.6501 | -0.0099 |
| 333 | 30 | HDR unbiased | 8.6201 | 8.6 | -0.0201 |
| 334 | 30 | HDR unbiased | 8.635 | 8.6149 | -0.0201 |
| 335 | 30 | HDR unbiased | 8.5499 | 8.545 | -0.0049 |
| 351 | 50 | HDR unbiased | 8.5849 | 8.6 | 0.0151 |
| 352 | 50 | HDR unbiased | 8.5651 | 8.5499 | -0.0152 |
| 353 | 50 | HDR unbiased | 8.5901 | 8.57 | -0.0201 |
| 354 | 50 | HDR unbiased | 8.6449 | 8.6399 | -0.005 |
| 355 | 50 | HDR unbiased | 8.6801 | 8.6251 | -0.055 |
| 521 | 20 | HDR biased | 8.6449 | 8.6251 | -0.0198 |
| 522 | 20 | HDR biased | 8.6551 | 8.6501 | -0.005 |
| 523 | 20 | HDR biased | 8.7351 | 8.72 | -0.0151 |
| 524 | 20 | HDR biased | 8.6149 | 8.6201 | 0.0052 |
| 525 | 20 | HDR biased | 8.635 | 8.6 | -0.035 |
| 531 | 30 | HDR biased | 8.635 | 8.6699 | 0.0349 |
| 532 | 30 | HDR biased | 8.6999 | 8.605 | -0.0949 |
| 533 | 30 | HDR biased | 8.6099 | 8.69 | 0.0801 |
| 534 | 30 | HDR biased | 8.6501 | 8.6399 | -0.0102 |
| 535 | 30 | HDR biased | 8.6649 | 8.63 | -0.0349 |
| 551 | 50 | HDR biased | 8.5901 | 8.5601 | -0.03 |
| 552 | 50 | HDR biased | 8.5799 | 8.5401 | -0.0398 |
| 553 | 50 | HDR biased | 8.66 | 8.6399 | -0.0201 |
| 554 | 50 | HDR biased | 8.6399 | 8.6 | -0.0399 |
| 555 | 50 | HDR biased | 8.5901 | 8.5601 | -0.03 |

TID vs Post - Pre Exposure Delta

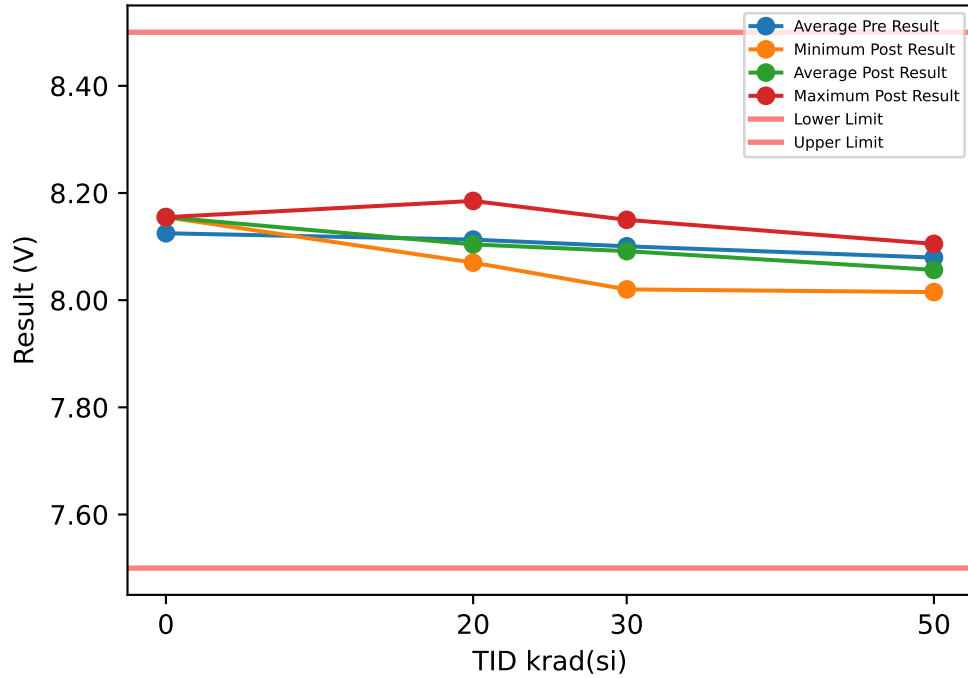


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 8.66 | 8.66 | 8.66 | | 8.685 | 8.685 | 8.685 | | 0.025 | 0.025 | 0.025 | |
| 20 | 8.605 | 8.647 | 8.7351 | 0.035103 | 8.6 | 8.6385 | 8.72 | 0.033991 | -0.035 | -0.00844 | 0.0052 | 0.011817 |
| 30 | 8.5499 | 8.634 | 8.6999 | 0.040064 | 8.545 | 8.6255 | 8.69 | 0.040649 | -0.0949 | -0.0085 | 0.0801 | 0.044962 |
| 50 | 8.5651 | 8.6125 | 8.6801 | 0.039726 | 8.5401 | 8.5885 | 8.6399 | 0.037529 | -0.055 | -0.024 | 0.0151 | 0.019813 |

Device Test: 70.1 V_IN_TH_FALL(_UVLO VIN Fall Thresh)

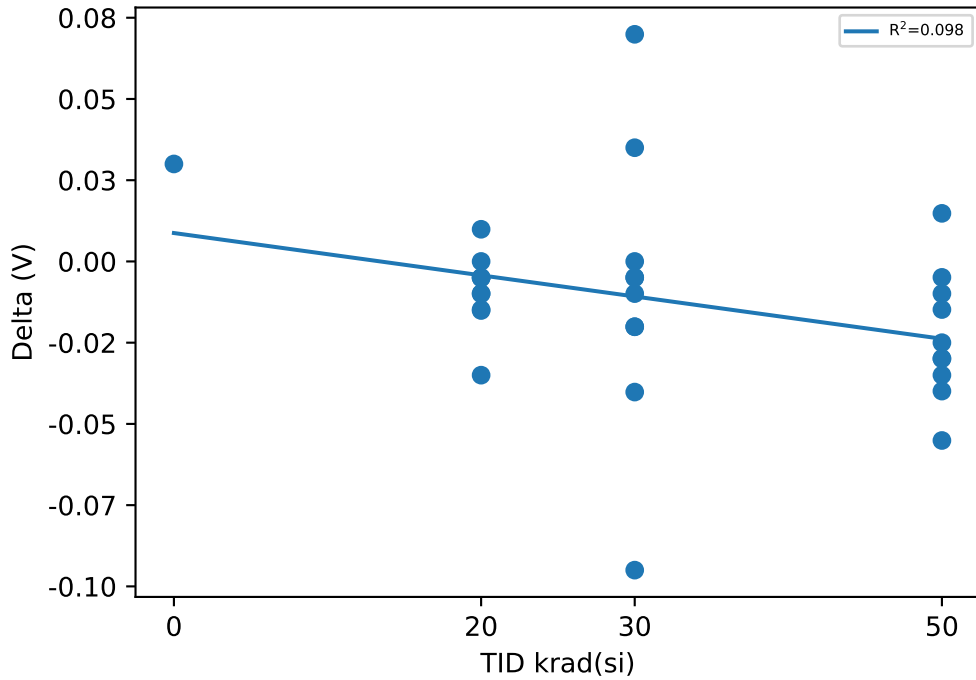
TID vs Result Stats



Test Results (Lower Limit = 7.5, Upper Limit = 8.5 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.1249 | 8.1549 | 0.03 |
| 321 | 20 | HDR unbiased | 8.1051 | 8.1001 | -0.005 |
| 322 | 20 | HDR unbiased | 8.1249 | 8.1199 | -0.005 |
| 323 | 20 | HDR unbiased | 8.11 | 8.1001 | -0.0099 |
| 324 | 20 | HDR unbiased | 8.1001 | 8.1001 | 0 |
| 325 | 20 | HDR unbiased | 8.0751 | 8.0701 | -0.005 |
| 331 | 30 | HDR unbiased | 8.08 | 8.0751 | -0.0049 |
| 332 | 30 | HDR unbiased | 8.1249 | 8.115 | -0.0099 |
| 333 | 30 | HDR unbiased | 8.085 | 8.0649 | -0.0201 |
| 334 | 30 | HDR unbiased | 8.1001 | 8.08 | -0.0201 |
| 335 | 30 | HDR unbiased | 8.0201 | 8.0201 | 0 |
| 351 | 50 | HDR unbiased | 8.0501 | 8.0649 | 0.0148 |
| 352 | 50 | HDR unbiased | 8.03 | 8.0201 | -0.0099 |
| 353 | 50 | HDR unbiased | 8.0599 | 8.0349 | -0.025 |
| 354 | 50 | HDR unbiased | 8.11 | 8.1051 | -0.0049 |
| 355 | 50 | HDR unbiased | 8.145 | 8.0899 | -0.0551 |
| 521 | 20 | HDR biased | 8.11 | 8.0949 | -0.0151 |
| 522 | 20 | HDR biased | 8.1199 | 8.11 | -0.0099 |
| 523 | 20 | HDR biased | 8.2 | 8.1852 | -0.0148 |
| 524 | 20 | HDR biased | 8.08 | 8.0899 | 0.0099 |
| 525 | 20 | HDR biased | 8.1051 | 8.0701 | -0.035 |
| 531 | 30 | HDR biased | 8.1001 | 8.1351 | 0.035 |
| 532 | 30 | HDR biased | 8.1651 | 8.0701 | -0.095 |
| 533 | 30 | HDR biased | 8.08 | 8.1499 | 0.0699 |
| 534 | 30 | HDR biased | 8.115 | 8.11 | -0.005 |
| 535 | 30 | HDR biased | 8.1351 | 8.0949 | -0.0402 |
| 551 | 50 | HDR biased | 8.0599 | 8.03 | -0.0299 |
| 552 | 50 | HDR biased | 8.0501 | 8.0151 | -0.035 |
| 553 | 50 | HDR biased | 8.1199 | 8.1051 | -0.0148 |
| 554 | 50 | HDR biased | 8.11 | 8.0701 | -0.0399 |
| 555 | 50 | HDR biased | 8.0599 | 8.03 | -0.0299 |

TID vs Post - Pre Exposure Delta

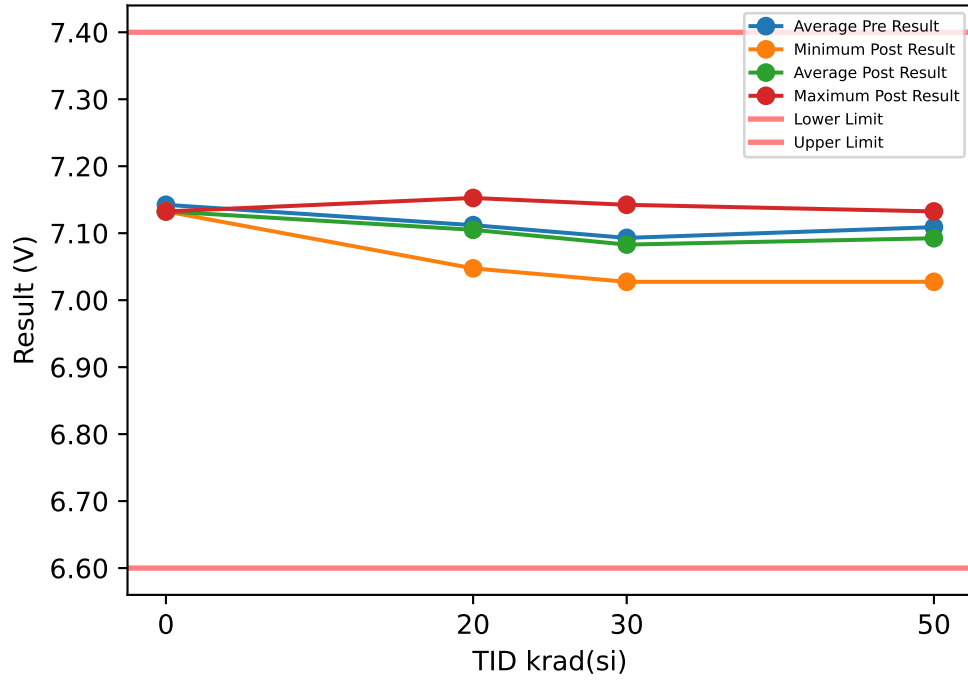


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 8.1249 | 8.1249 | 8.1249 | | 8.1549 | 8.1549 | 8.1549 | | 0.03 | 0.03 | 0.03 | |
| 20 | 8.0751 | 8.113 | 8.2 | 0.034307 | 8.0701 | 8.104 | 8.1852 | 0.032503 | -0.035 | -0.00898 | 0.0099 | 0.011713 |
| 30 | 8.0201 | 8.1005 | 8.1651 | 0.039046 | 8.0201 | 8.0915 | 8.1499 | 0.037833 | -0.095 | -0.00903 | 0.0699 | 0.043323 |
| 50 | 8.03 | 8.0795 | 8.145 | 0.038173 | 8.0151 | 8.0565 | 8.1051 | 0.034968 | -0.0551 | -0.02296 | 0.0148 | 0.019873 |

Device Test: 75.0 V_BOOT_TH_RISE(_UVLO BOOT Rise Thresh)

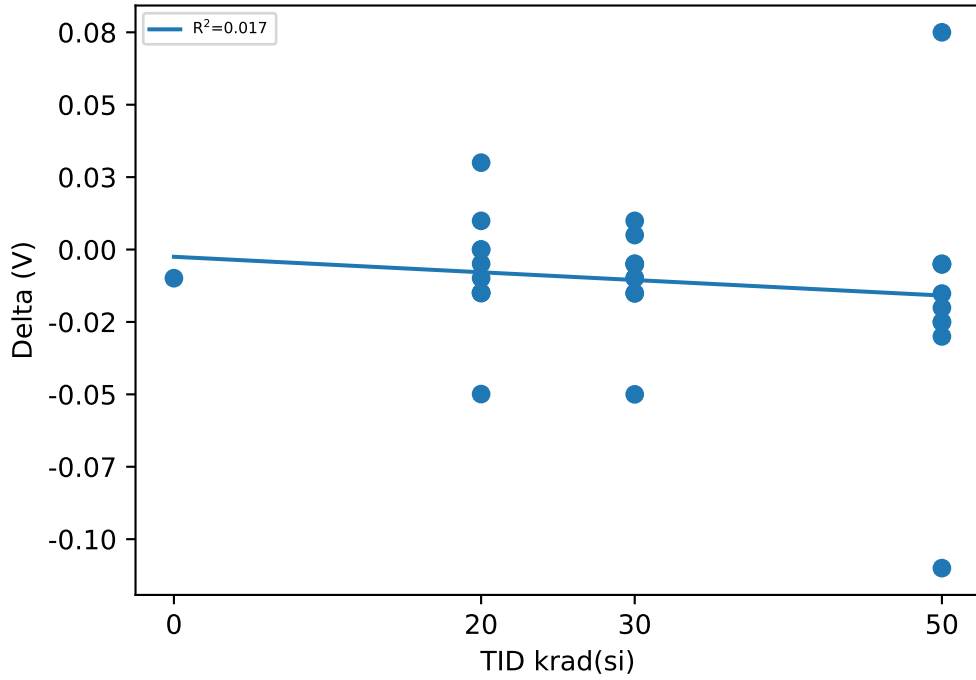
TID vs Result Stats



Test Results (Lower Limit = 6.6, Upper Limit = 7.4 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 7.1424 | 7.1325 | -0.0099 |
| 321 | 20 | HDR unbiased | 7.1025 | 7.0976 | -0.0049 |
| 322 | 20 | HDR unbiased | 7.0976 | 7.0976 | 0 |
| 323 | 20 | HDR unbiased | 7.0625 | 7.0475 | -0.015 |
| 324 | 20 | HDR unbiased | 7.0875 | 7.0875 | 0 |
| 325 | 20 | HDR unbiased | 7.1325 | 7.1424 | 0.0099 |
| 331 | 30 | HDR unbiased | 7.0725 | 7.0574 | -0.0151 |
| 332 | 30 | HDR unbiased | 7.0224 | 7.0274 | 0.005 |
| 333 | 30 | HDR unbiased | 7.1374 | 7.1276 | -0.0098 |
| 334 | 30 | HDR unbiased | 7.1025 | 7.0976 | -0.0049 |
| 335 | 30 | HDR unbiased | 7.1075 | 7.1025 | -0.005 |
| 351 | 50 | HDR unbiased | 7.1374 | 7.0274 | -0.11 |
| 352 | 50 | HDR unbiased | 7.1374 | 7.1325 | -0.0049 |
| 353 | 50 | HDR unbiased | 7.0425 | 7.1175 | 0.075 |
| 354 | 50 | HDR unbiased | 7.0875 | 7.0824 | -0.0051 |
| 355 | 50 | HDR unbiased | 7.0976 | 7.0824 | -0.0152 |
| 521 | 20 | HDR biased | 7.0775 | 7.0625 | -0.015 |
| 522 | 20 | HDR biased | 7.1075 | 7.0926 | -0.0149 |
| 523 | 20 | HDR biased | 7.1625 | 7.1526 | -0.0099 |
| 524 | 20 | HDR biased | 7.1226 | 7.1526 | 0.03 |
| 525 | 20 | HDR biased | 7.1674 | 7.1175 | -0.0499 |
| 531 | 30 | HDR biased | 7.0676 | 7.0625 | -0.0051 |
| 532 | 30 | HDR biased | 7.1575 | 7.1075 | -0.05 |
| 533 | 30 | HDR biased | 7.1325 | 7.1424 | 0.0099 |
| 534 | 30 | HDR biased | 7.0574 | 7.0475 | -0.0099 |
| 535 | 30 | HDR biased | 7.0725 | 7.0574 | -0.0151 |
| 551 | 50 | HDR biased | 7.0926 | 7.0676 | -0.025 |
| 552 | 50 | HDR biased | 7.1276 | 7.1025 | -0.0251 |
| 553 | 50 | HDR biased | 7.1025 | 7.0824 | -0.0201 |
| 554 | 50 | HDR biased | 7.1424 | 7.1124 | -0.03 |
| 555 | 50 | HDR biased | 7.1226 | 7.1175 | -0.0051 |

TID vs Post - Pre Exposure Delta

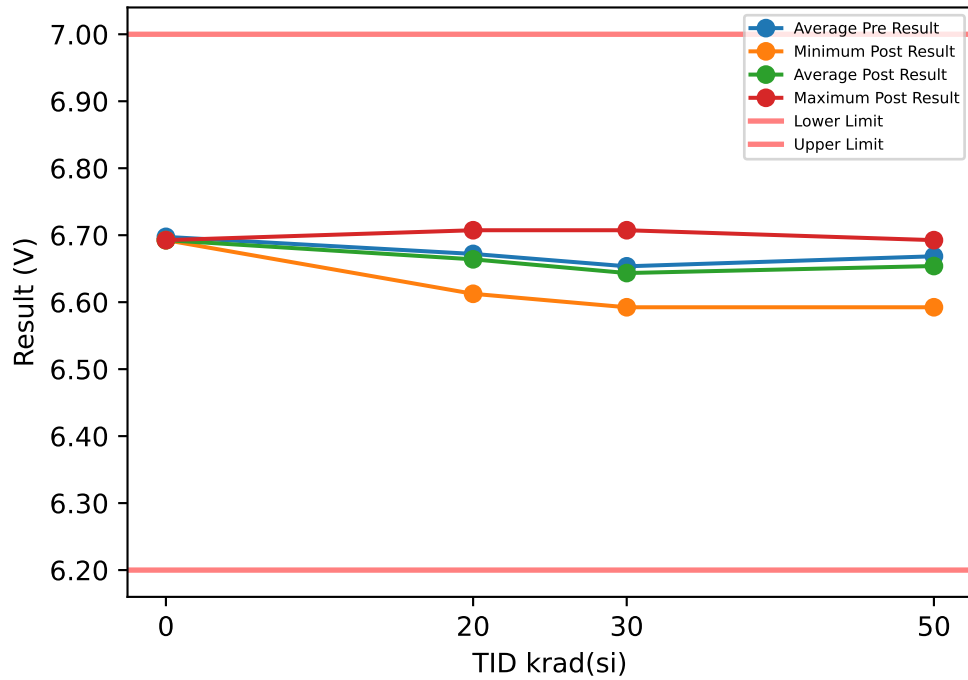


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 7.1424 | 7.1424 | 7.1424 | | 7.1325 | 7.1325 | 7.1325 | | -0.0099 | -0.0099 | -0.0099 | |
| 20 | 7.0625 | 7.112 | 7.1674 | 0.034497 | 7.0475 | 7.105 | 7.1526 | 0.036161 | -0.0499 | -0.00697 | 0.03 | 0.020538 |
| 30 | 7.0224 | 7.093 | 7.1575 | 0.041806 | 7.0274 | 7.083 | 7.1424 | 0.037703 | -0.05 | -0.01 | 0.0099 | 0.016152 |
| 50 | 7.0425 | 7.109 | 7.1424 | 0.030886 | 7.0274 | 7.0925 | 7.1325 | 0.03075 | -0.11 | -0.01655 | 0.075 | 0.044537 |

Device Test: 75.1 V_BOOT_TH_FALL(_UVLO BOOT Fall Thresh)

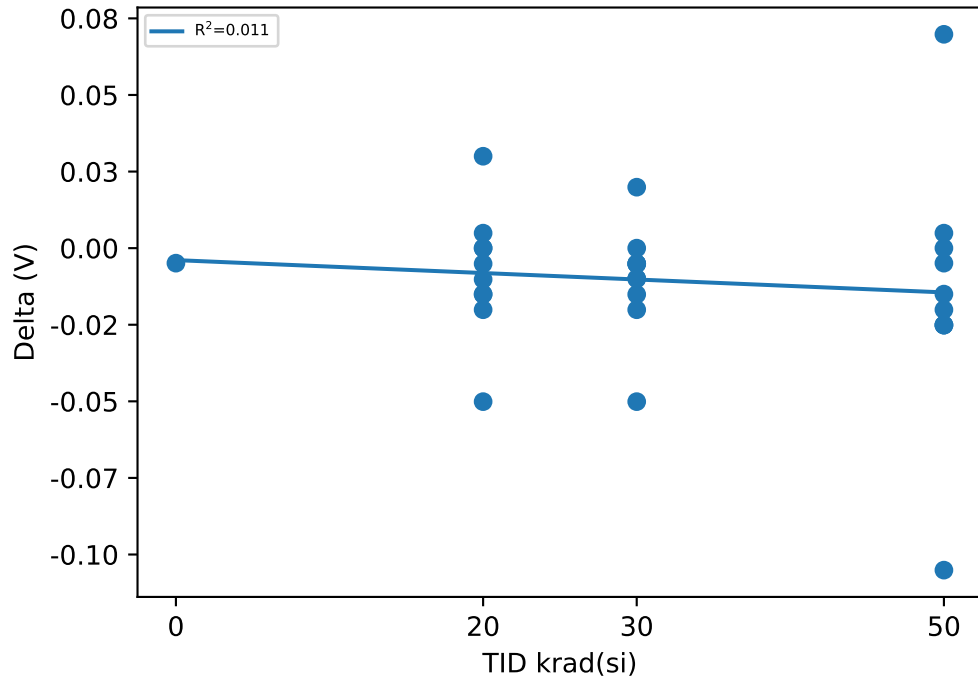
TID vs Result Stats



Test Results (Lower Limit = 6.2, Upper Limit = 7.0 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 6.6975 | 6.6926 | -0.0049 |
| 321 | 20 | HDR unbiased | 6.6626 | 6.6626 | 0 |
| 322 | 20 | HDR unbiased | 6.6626 | 6.6575 | -0.0051 |
| 323 | 20 | HDR unbiased | 6.6275 | 6.6125 | -0.015 |
| 324 | 20 | HDR unbiased | 6.6475 | 6.6475 | 0 |
| 325 | 20 | HDR unbiased | 6.6926 | 6.6975 | 0.0049 |
| 331 | 30 | HDR unbiased | 6.6376 | 6.6175 | -0.0201 |
| 332 | 30 | HDR unbiased | 6.5924 | 6.5924 | 0 |
| 333 | 30 | HDR unbiased | 6.6975 | 6.6875 | -0.01 |
| 334 | 30 | HDR unbiased | 6.6626 | 6.6575 | -0.0051 |
| 335 | 30 | HDR unbiased | 6.6626 | 6.6575 | -0.0051 |
| 351 | 50 | HDR unbiased | 6.6975 | 6.5924 | -0.1051 |
| 352 | 50 | HDR unbiased | 6.6926 | 6.6926 | 0 |
| 353 | 50 | HDR unbiased | 6.6076 | 6.6774 | 0.0698 |
| 354 | 50 | HDR unbiased | 6.6475 | 6.6524 | 0.0049 |
| 355 | 50 | HDR unbiased | 6.6575 | 6.6425 | -0.015 |
| 521 | 20 | HDR biased | 6.6425 | 6.6224 | -0.0201 |
| 522 | 20 | HDR biased | 6.6675 | 6.6524 | -0.0151 |
| 523 | 20 | HDR biased | 6.7176 | 6.7074 | -0.0102 |
| 524 | 20 | HDR biased | 6.6774 | 6.7074 | 0.03 |
| 525 | 20 | HDR biased | 6.7226 | 6.6725 | -0.0501 |
| 531 | 30 | HDR biased | 6.6275 | 6.6224 | -0.0051 |
| 532 | 30 | HDR biased | 6.7176 | 6.6675 | -0.0501 |
| 533 | 30 | HDR biased | 6.6875 | 6.7074 | 0.0199 |
| 534 | 30 | HDR biased | 6.6175 | 6.6076 | -0.0099 |
| 535 | 30 | HDR biased | 6.6326 | 6.6175 | -0.0151 |
| 551 | 50 | HDR biased | 6.6475 | 6.6224 | -0.0251 |
| 552 | 50 | HDR biased | 6.6926 | 6.6675 | -0.0251 |
| 553 | 50 | HDR biased | 6.6626 | 6.6425 | -0.0201 |
| 554 | 50 | HDR biased | 6.7025 | 6.6774 | -0.0251 |
| 555 | 50 | HDR biased | 6.6774 | 6.6725 | -0.0049 |

TID vs Post - Pre Exposure Delta

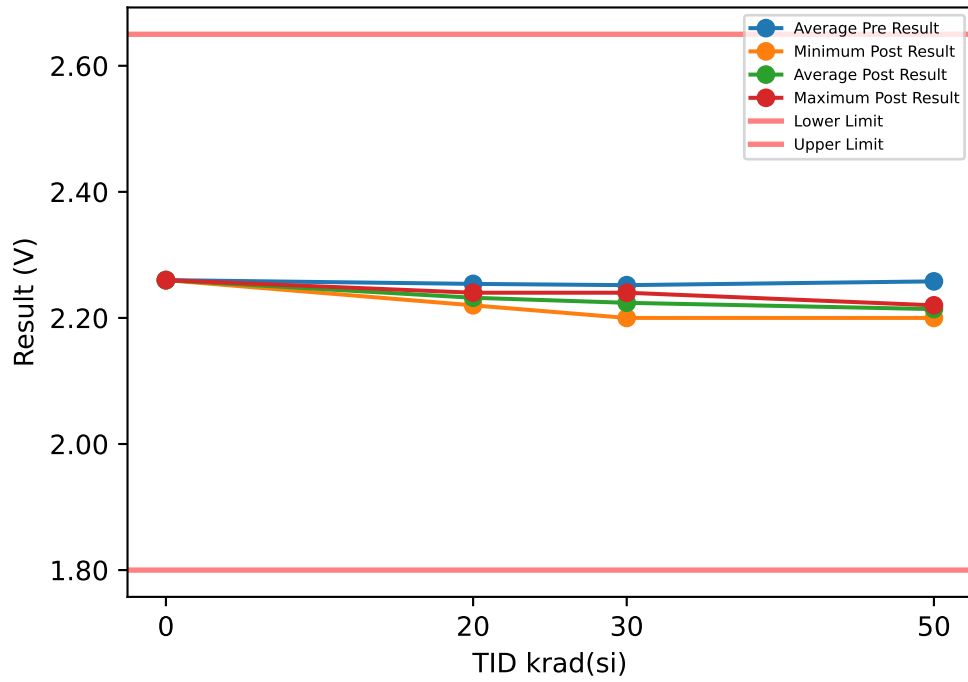


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 6.6975 | 6.6975 | 6.6975 | | 6.6926 | 6.6926 | 6.6926 | | -0.0049 | -0.0049 | -0.0049 | |
| 20 | 6.6275 | 6.672 | 6.7226 | 0.031164 | 6.6125 | 6.664 | 6.7074 | 0.032991 | -0.0501 | -0.00807 | 0.03 | 0.020466 |
| 30 | 6.5924 | 6.6535 | 6.7176 | 0.039103 | 6.5924 | 6.6435 | 6.7074 | 0.037542 | -0.0501 | -0.01006 | 0.0199 | 0.017645 |
| 50 | 6.6076 | 6.6685 | 6.7025 | 0.029785 | 6.5924 | 6.654 | 6.6926 | 0.030129 | -0.1051 | -0.01457 | 0.0698 | 0.042638 |

Device Test: 90.0 V_IH(PWM_LI Rise Thresh VIN_10V)

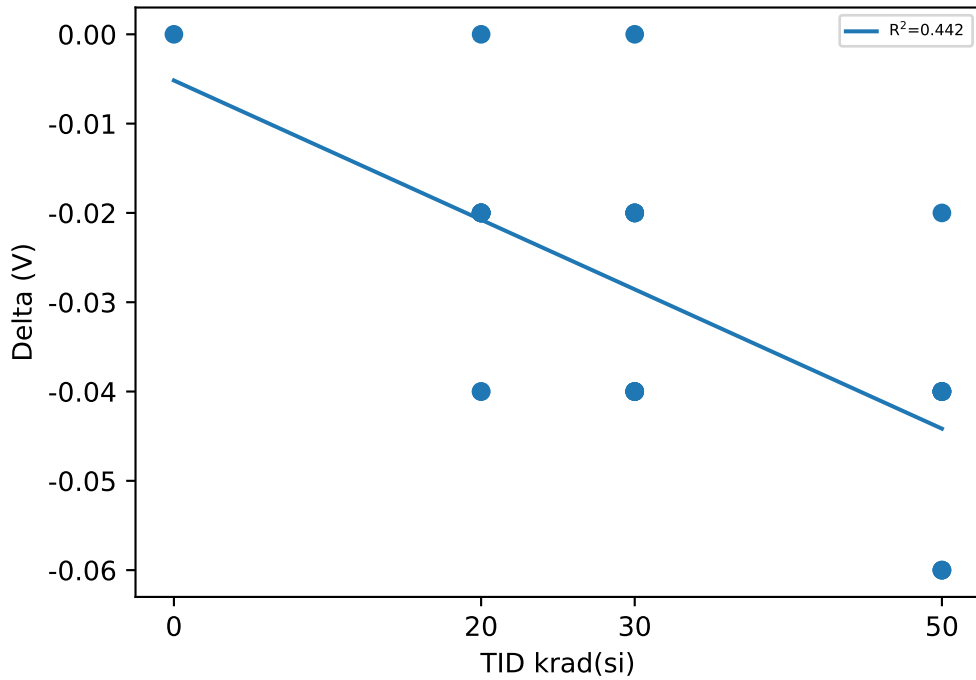
TID vs Result Stats



Test Results (Lower Limit = 1.8, Upper Limit = 2.65 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 2.26 | 2.26 | 0 |
| 321 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 322 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 323 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 324 | 20 | HDR unbiased | 2.24 | 2.24 | 0 |
| 325 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 331 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 332 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 333 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 334 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 335 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 351 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 352 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 353 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 354 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 355 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 521 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 522 | 20 | HDR biased | 2.26 | 2.22 | -0.04 |
| 523 | 20 | HDR biased | 2.26 | 2.22 | -0.04 |
| 524 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 525 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 531 | 30 | HDR biased | 2.24 | 2.2 | -0.04 |
| 532 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 533 | 30 | HDR biased | 2.24 | 2.24 | 0 |
| 534 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 535 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 551 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 552 | 50 | HDR biased | 2.24 | 2.22 | -0.02 |
| 553 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 554 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 555 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |

TID vs Post - Pre Exposure Delta

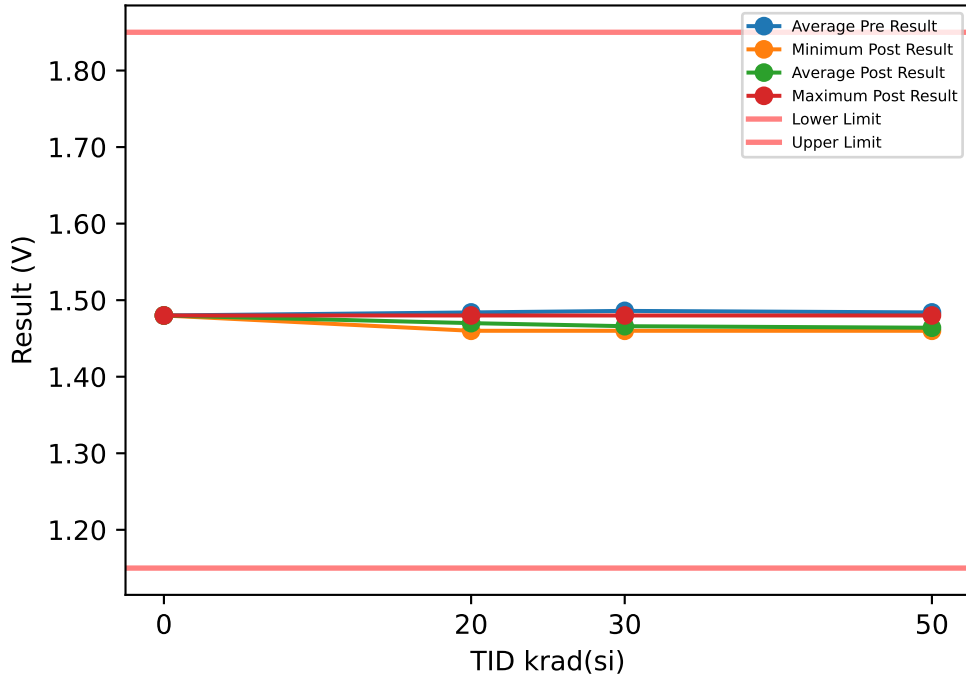


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.26 | 2.26 | 2.26 | | 2.26 | 2.26 | 2.26 | | 0 | 0 | 0 | |
| 20 | 2.24 | 2.254 | 2.26 | 0.0096609 | 2.22 | 2.232 | 2.24 | 0.010328 | -0.04 | -0.022 | 0 | 0.011353 |
| 30 | 2.24 | 2.252 | 2.26 | 0.010328 | 2.2 | 2.224 | 2.24 | 0.012649 | -0.04 | -0.028 | 0 | 0.013984 |
| 50 | 2.24 | 2.258 | 2.26 | 0.0063246 | 2.2 | 2.214 | 2.22 | 0.0096609 | -0.06 | -0.044 | -0.02 | 0.012649 |

Device Test: 90.1 V_IL(_PWM_LI Fall Thresh VIN_10V)

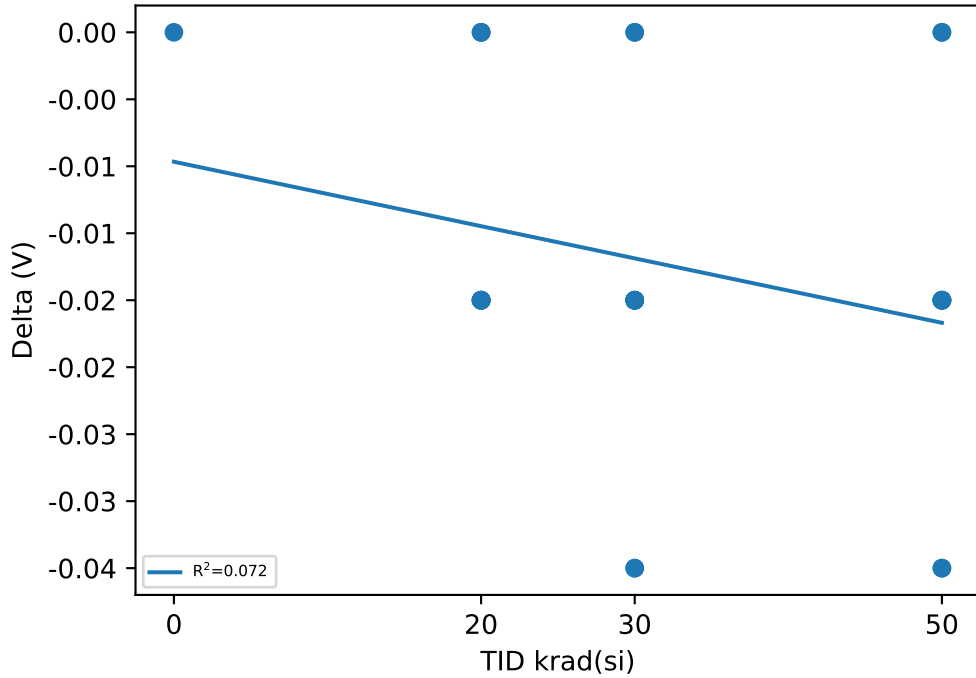
TID vs Result Stats



Test Results (Lower Limit = 1.15, Upper Limit = 1.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 1.48 | 1.48 | 0 |
| 321 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 322 | 20 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 323 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 324 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 325 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 331 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 332 | 30 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 333 | 30 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 334 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 335 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 351 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 352 | 50 | HDR unbiased | 1.46 | 1.46 | 0 |
| 353 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 354 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 355 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 521 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 522 | 20 | HDR biased | 1.48 | 1.46 | -0.02 |
| 523 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 524 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 525 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 531 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 532 | 30 | HDR biased | 1.5 | 1.46 | -0.04 |
| 533 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 534 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 535 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 551 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 552 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 553 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 554 | 50 | HDR biased | 1.48 | 1.48 | 0 |
| 555 | 50 | HDR biased | 1.5 | 1.48 | -0.02 |

TID vs Post - Pre Exposure Delta

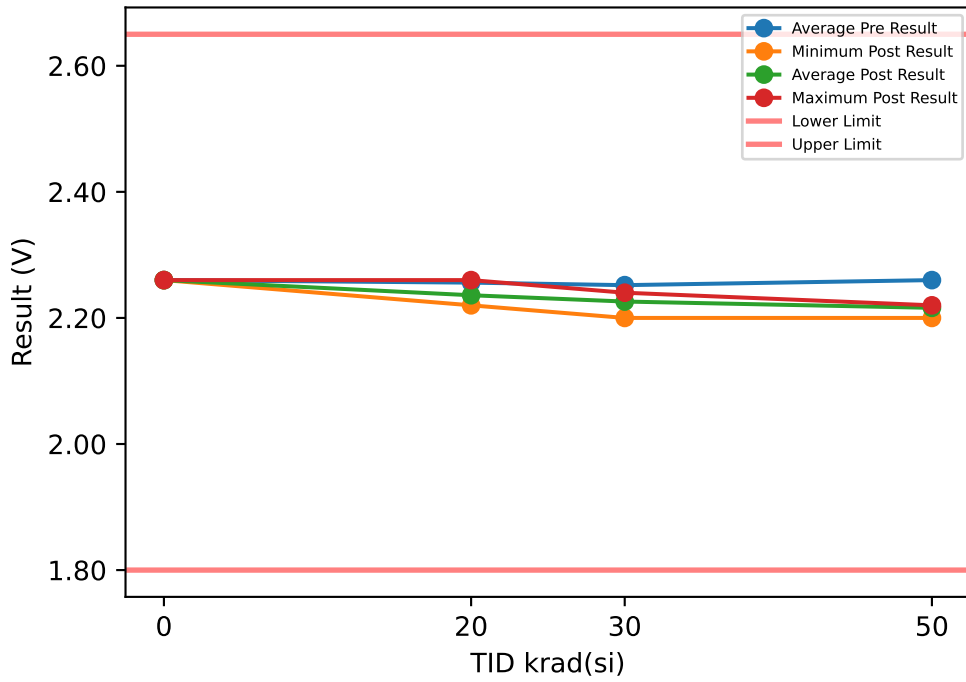


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.48 | 1.48 | 1.48 | | 1.48 | 1.48 | 1.48 | | 0 | 0 | 0 | |
| 20 | 1.48 | 1.484 | 1.5 | 0.0084327 | 1.46 | 1.47 | 1.48 | 0.010541 | -0.02 | -0.014 | 0 | 0.0096609 |
| 30 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.466 | 1.48 | 0.0096609 | -0.04 | -0.02 | 0 | 0.013333 |
| 50 | 1.46 | 1.484 | 1.5 | 0.012649 | 1.46 | 1.464 | 1.48 | 0.0084327 | -0.04 | -0.02 | 0 | 0.013333 |

Device Test: 90.3 V_IH(_EN_HI Rise Thresh VIN_10V)

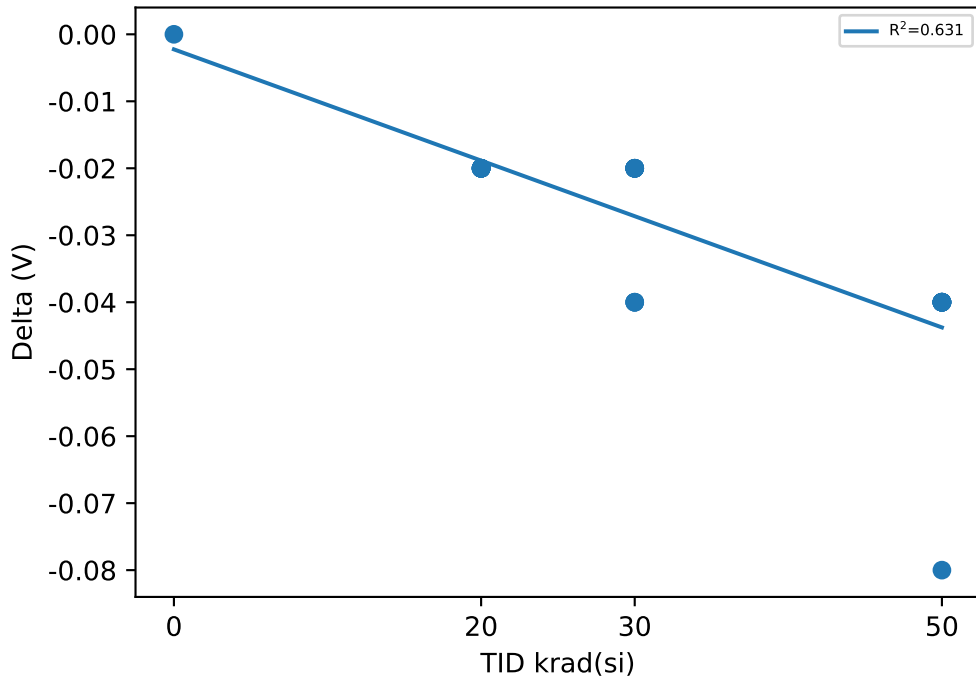
TID vs Result Stats



Test Results (Lower Limit = 1.8, Upper Limit = 2.65 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 2.26 | 2.26 | 0 |
| 321 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 322 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 323 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 324 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 325 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 331 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 332 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 333 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 334 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 335 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 351 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 352 | 50 | HDR unbiased | 2.24 | 2.2 | -0.04 |
| 353 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 354 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 355 | 50 | HDR unbiased | 2.28 | 2.2 | -0.08 |
| 521 | 20 | HDR biased | 2.28 | 2.26 | -0.02 |
| 522 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 523 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 524 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 525 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 531 | 30 | HDR biased | 2.24 | 2.2 | -0.04 |
| 532 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 533 | 30 | HDR biased | 2.26 | 2.24 | -0.02 |
| 534 | 30 | HDR biased | 2.26 | 2.24 | -0.02 |
| 535 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 551 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 552 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 553 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 554 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 555 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |

TID vs Post - Pre Exposure Delta

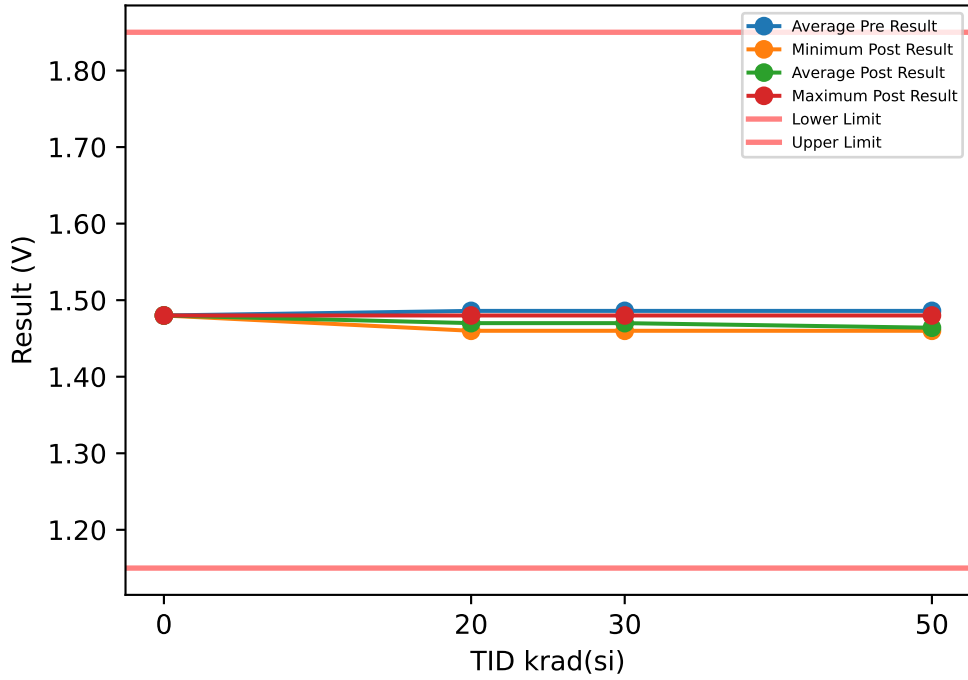


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|------------|
| 0 | 2.26 | 2.26 | 2.26 | | 2.26 | 2.26 | 2.26 | | 0 | 0 | 0 | |
| 20 | 2.24 | 2.256 | 2.28 | 0.012649 | 2.22 | 2.236 | 2.26 | 0.012649 | -0.02 | -0.02 | -0.02 | 2.3076e-16 |
| 30 | 2.24 | 2.252 | 2.26 | 0.010328 | 2.2 | 2.226 | 2.24 | 0.013499 | -0.04 | -0.026 | -0.02 | 0.0096609 |
| 50 | 2.24 | 2.26 | 2.28 | 0.0094281 | 2.2 | 2.216 | 2.22 | 0.0084327 | -0.08 | -0.044 | -0.04 | 0.012649 |

Device Test: 90.4 V_IL(_EN_HI Fall Thresh VIN_10V)

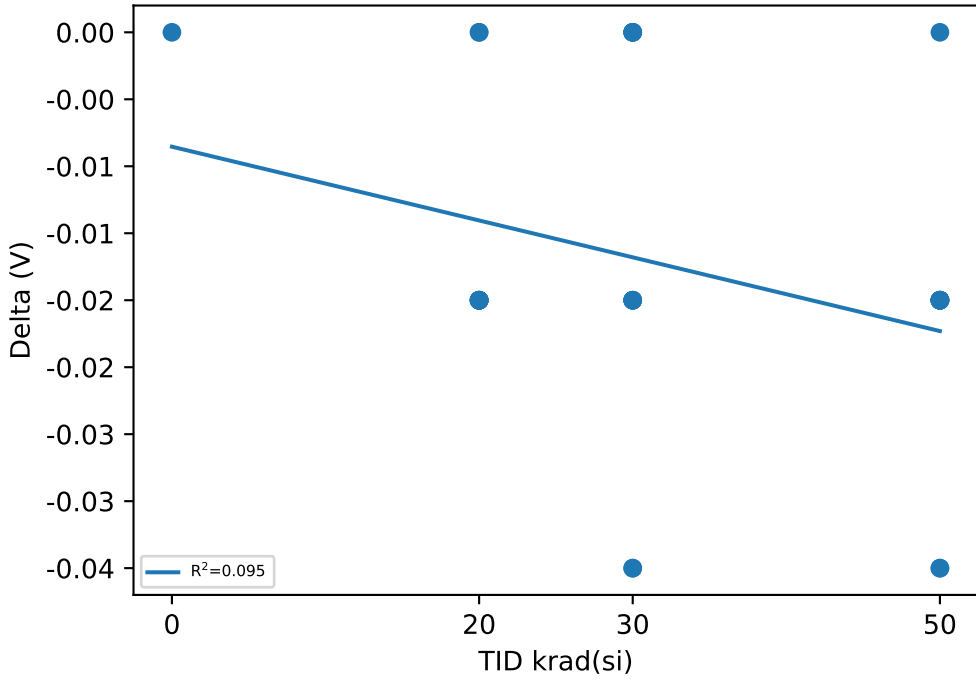
TID vs Result Stats



Test Results (Lower Limit = 1.15, Upper Limit = 1.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 1.48 | 1.48 | 0 |
| 321 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 322 | 20 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 323 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 324 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 325 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 331 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 332 | 30 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 333 | 30 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 334 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 335 | 30 | HDR unbiased | 1.48 | 1.48 | 0 |
| 351 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 352 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 353 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 354 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 355 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 521 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 522 | 20 | HDR biased | 1.48 | 1.46 | -0.02 |
| 523 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 524 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 525 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 531 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 532 | 30 | HDR biased | 1.5 | 1.46 | -0.04 |
| 533 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 534 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 535 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 551 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 552 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 553 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 554 | 50 | HDR biased | 1.5 | 1.48 | -0.02 |
| 555 | 50 | HDR biased | 1.48 | 1.48 | 0 |

TID vs Post - Pre Exposure Delta

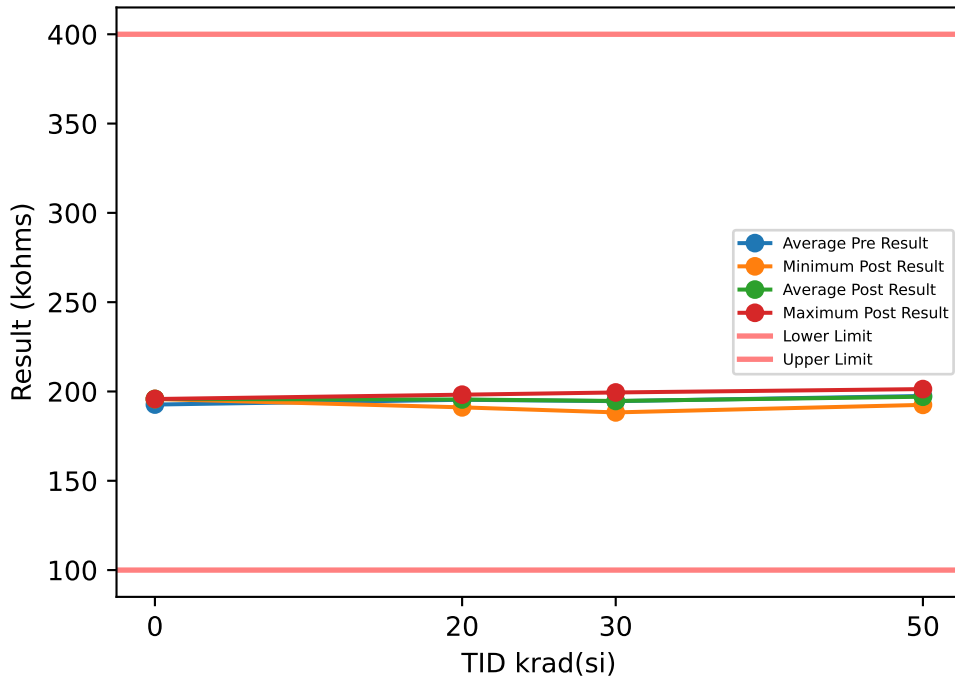


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.48 | 1.48 | 1.48 | | 1.48 | 1.48 | 1.48 | | 0 | 0 | 0 | |
| 20 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.47 | 1.48 | 0.010541 | -0.02 | -0.016 | 0 | 0.0084327 |
| 30 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.47 | 1.48 | 0.010541 | -0.04 | -0.016 | 0 | 0.015776 |
| 50 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.464 | 1.48 | 0.0084327 | -0.04 | -0.022 | 0 | 0.011353 |

Device Test: 90.6 R_PD(_PWM_LI Pull Down Resistance VIN_10V)

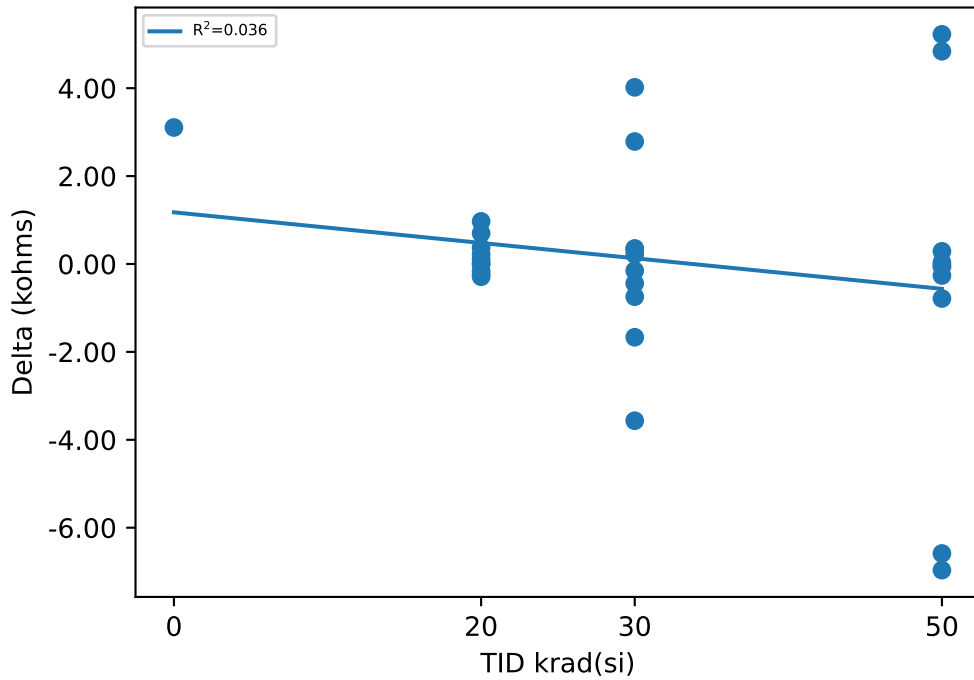
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 400.0 (kohms))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 192.68 | 195.78 | 3.1053 |
| 321 | 20 | HDR unbiased | 191.26 | 191.11 | -0.157 |
| 322 | 20 | HDR unbiased | 194.68 | 194.39 | -0.29 |
| 323 | 20 | HDR unbiased | 191.15 | 191.52 | 0.3706 |
| 324 | 20 | HDR unbiased | 198.21 | 198.2 | -0.0071 |
| 325 | 20 | HDR unbiased | 194.9 | 194.9 | 0.0087 |
| 331 | 30 | HDR unbiased | 190.24 | 190.46 | 0.219 |
| 332 | 30 | HDR unbiased | 198.09 | 197.65 | -0.4402 |
| 333 | 30 | HDR unbiased | 189.25 | 189.59 | 0.3387 |
| 334 | 30 | HDR unbiased | 193.34 | 193.19 | -0.1526 |
| 335 | 30 | HDR unbiased | 189.03 | 188.28 | -0.7442 |
| 351 | 50 | HDR unbiased | 200.92 | 194.34 | -6.5854 |
| 352 | 50 | HDR unbiased | 200.49 | 199.7 | -0.785 |
| 353 | 50 | HDR unbiased | 195.27 | 200.1 | 4.8399 |
| 354 | 50 | HDR unbiased | 199.47 | 192.51 | -6.9653 |
| 355 | 50 | HDR unbiased | 193.6 | 198.83 | 5.2256 |
| 521 | 20 | HDR biased | 197.43 | 197.54 | 0.1046 |
| 522 | 20 | HDR biased | 195.96 | 196.66 | 0.7007 |
| 523 | 20 | HDR biased | 196.98 | 197.2 | 0.2207 |
| 524 | 20 | HDR biased | 196.87 | 196.62 | -0.2417 |
| 525 | 20 | HDR biased | 196.08 | 197.05 | 0.9694 |
| 531 | 30 | HDR biased | 199.01 | 195.44 | -3.5656 |
| 532 | 30 | HDR biased | 196.66 | 199.45 | 2.787 |
| 533 | 30 | HDR biased | 198.34 | 196.68 | -1.667 |
| 534 | 30 | HDR biased | 196.47 | 196.82 | 0.3535 |
| 535 | 30 | HDR biased | 195.36 | 199.38 | 4.019 |
| 551 | 50 | HDR biased | 197.86 | 197.81 | -0.0514 |
| 552 | 50 | HDR biased | 194.86 | 194.8 | -0.0552 |
| 553 | 50 | HDR biased | 194.78 | 195.07 | 0.288 |
| 554 | 50 | HDR biased | 196.32 | 196.06 | -0.2614 |
| 555 | 50 | HDR biased | 201.3 | 201.34 | 0.0349 |

TID vs Post - Pre Exposure Delta

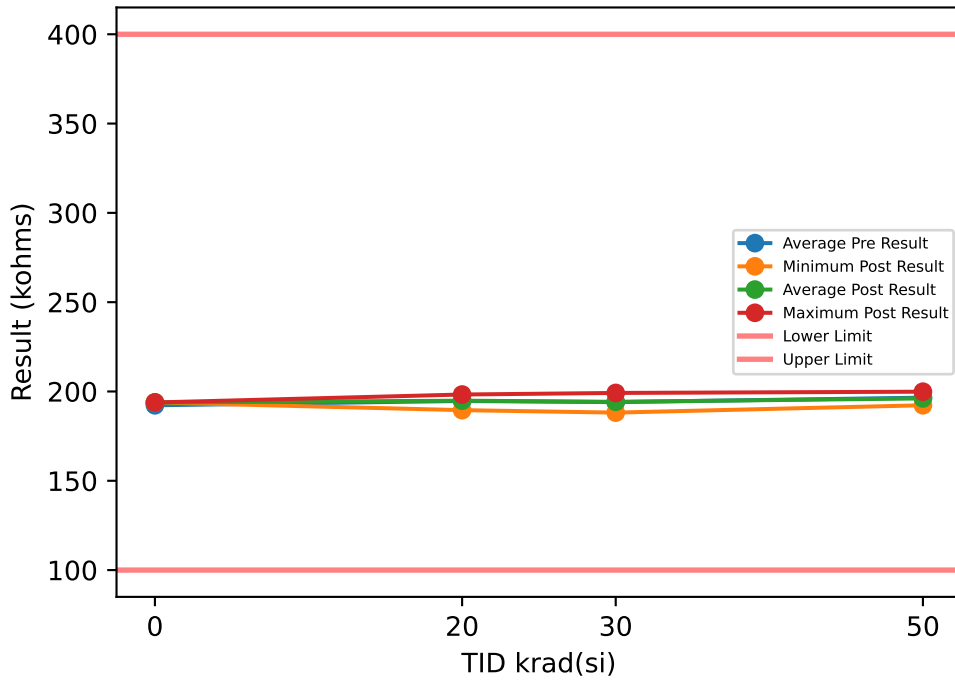


Test Statistics (kohms)

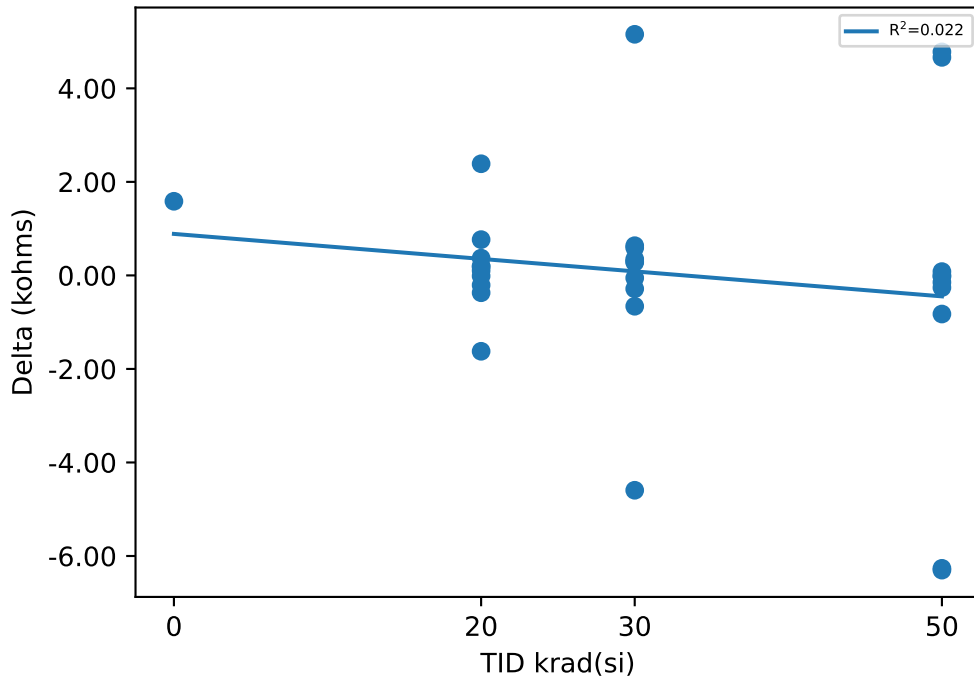
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 192.68 | 192.68 | 192.68 | | 195.78 | 195.78 | 195.78 | | 3.1053 | 3.1053 | 3.1053 | |
| 20 | 191.15 | 195.35 | 198.21 | 2.4337 | 191.11 | 195.52 | 198.2 | 2.4948 | -0.29 | 0.16789 | 0.9694 | 0.41003 |
| 30 | 189.03 | 194.58 | 199.01 | 3.8623 | 188.28 | 194.69 | 199.45 | 4.0793 | -3.5656 | 0.11476 | 4.019 | 2.1171 |
| 50 | 193.6 | 197.49 | 201.3 | 2.8881 | 192.51 | 197.06 | 201.34 | 2.9145 | -6.9653 | -0.43153 | 5.2256 | 3.9655 |

Device Test: 90.7 R_PD(_EN_HI Pull Down Resistance VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 100.0, Upper Limit = 400.0 (kohms))

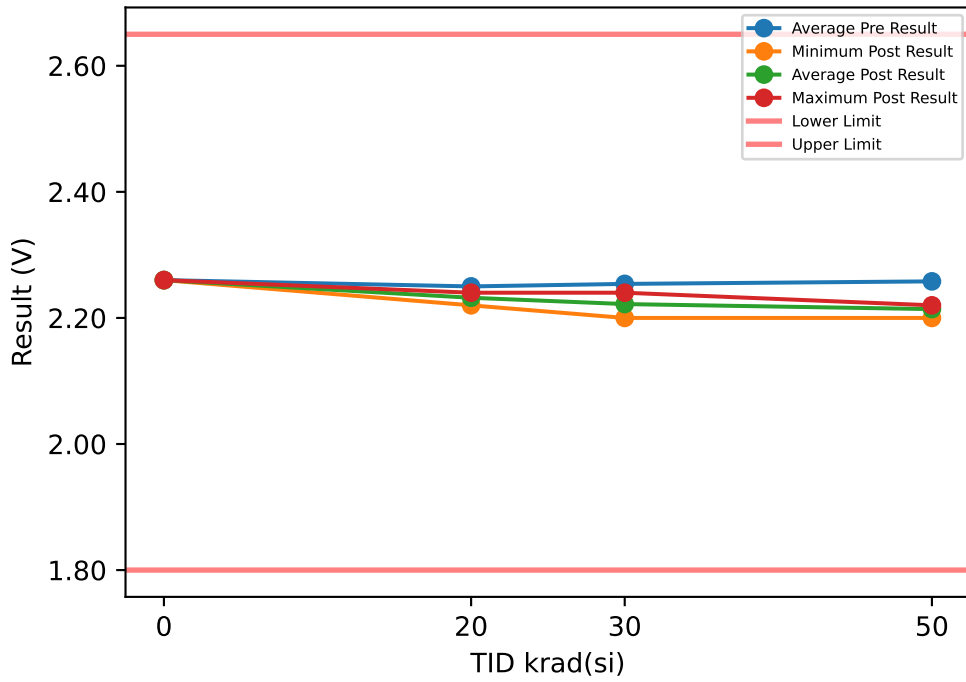
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 192.26 | 193.85 | 1.5852 |
| 321 | 20 | HDR unbiased | 189.75 | 189.55 | -0.2074 |
| 322 | 20 | HDR unbiased | 194.18 | 193.81 | -0.3706 |
| 323 | 20 | HDR unbiased | 191.33 | 191.7 | 0.3695 |
| 324 | 20 | HDR unbiased | 198.19 | 198.3 | 0.1043 |
| 325 | 20 | HDR unbiased | 194.55 | 194.74 | 0.1876 |
| 331 | 30 | HDR unbiased | 189.25 | 189.6 | 0.3491 |
| 332 | 30 | HDR unbiased | 197.61 | 197.33 | -0.2863 |
| 333 | 30 | HDR unbiased | 188.34 | 188.64 | 0.303 |
| 334 | 30 | HDR unbiased | 193.23 | 193.18 | -0.0547 |
| 335 | 30 | HDR unbiased | 188.83 | 188.17 | -0.6596 |
| 351 | 50 | HDR unbiased | 199.77 | 193.51 | -6.2635 |
| 352 | 50 | HDR unbiased | 198.66 | 197.84 | -0.8257 |
| 353 | 50 | HDR unbiased | 194.34 | 199.12 | 4.7796 |
| 354 | 50 | HDR unbiased | 198.58 | 192.28 | -6.3023 |
| 355 | 50 | HDR unbiased | 193.26 | 197.93 | 4.6624 |
| 521 | 20 | HDR biased | 196.76 | 196.75 | -0.0128 |
| 522 | 20 | HDR biased | 194.74 | 195.51 | 0.7654 |
| 523 | 20 | HDR biased | 195.78 | 195.98 | 0.1978 |
| 524 | 20 | HDR biased | 196.87 | 195.24 | -1.6224 |
| 525 | 20 | HDR biased | 194.6 | 196.98 | 2.3876 |
| 531 | 30 | HDR biased | 198.82 | 194.23 | -4.5943 |
| 532 | 30 | HDR biased | 197.05 | 197.68 | 0.6356 |
| 533 | 30 | HDR biased | 196.6 | 197.19 | 0.5914 |
| 534 | 30 | HDR biased | 196.61 | 196.89 | 0.2787 |
| 535 | 30 | HDR biased | 194.03 | 199.18 | 5.1556 |
| 551 | 50 | HDR biased | 197.71 | 197.69 | -0.0221 |
| 552 | 50 | HDR biased | 193.72 | 193.71 | -0.0047 |
| 553 | 50 | HDR biased | 193.7 | 193.78 | 0.0817 |
| 554 | 50 | HDR biased | 195.63 | 195.36 | -0.2603 |
| 555 | 50 | HDR biased | 200.03 | 199.88 | -0.1484 |

Test Statistics (kohms)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 192.26 | 192.26 | 192.26 | | 193.85 | 193.85 | 193.85 | | 1.5852 | 1.5852 | 1.5852 | |
| 20 | 189.75 | 194.68 | 198.19 | 2.5482 | 189.55 | 194.86 | 198.3 | 2.6048 | -1.6224 | 0.1799 | 2.3876 | 0.99985 |
| 30 | 188.34 | 194.04 | 198.82 | 3.9595 | 188.17 | 194.21 | 199.18 | 4.1149 | -4.5943 | 0.17185 | 5.1556 | 2.3323 |
| 50 | 193.26 | 196.54 | 200.03 | 2.6897 | 192.28 | 196.11 | 199.88 | 2.6906 | -6.3023 | -0.43033 | 4.7796 | 3.6887 |

Device Test: 91.0 V_IH(_PWM_LI Rise Thresh VIN_12V)

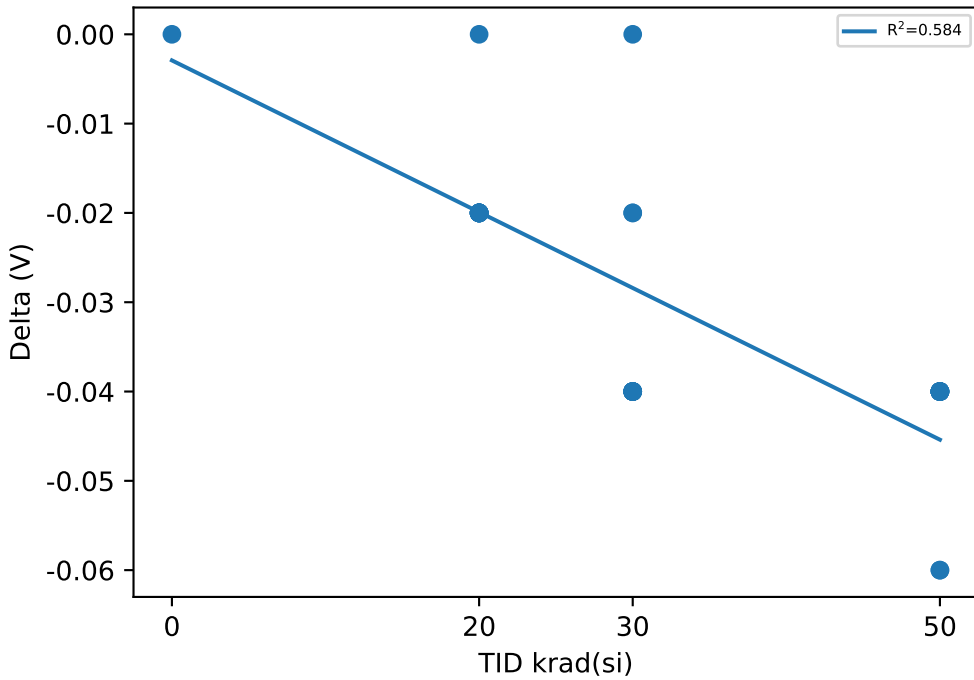
TID vs Result Stats



Test Results (Lower Limit = 1.8, Upper Limit = 2.65 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 2.26 | 2.26 | 0 |
| 321 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 322 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 323 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 324 | 20 | HDR unbiased | 2.24 | 2.24 | 0 |
| 325 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 331 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 332 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 333 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 334 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 335 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 351 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 352 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 353 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 354 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 355 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 521 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 522 | 20 | HDR biased | 2.24 | 2.22 | -0.02 |
| 523 | 20 | HDR biased | 2.24 | 2.22 | -0.02 |
| 524 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 525 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 531 | 30 | HDR biased | 2.24 | 2.2 | -0.04 |
| 532 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 533 | 30 | HDR biased | 2.24 | 2.24 | 0 |
| 534 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 535 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 551 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 552 | 50 | HDR biased | 2.24 | 2.2 | -0.04 |
| 553 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 554 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 555 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |

TID vs Post - Pre Exposure Delta

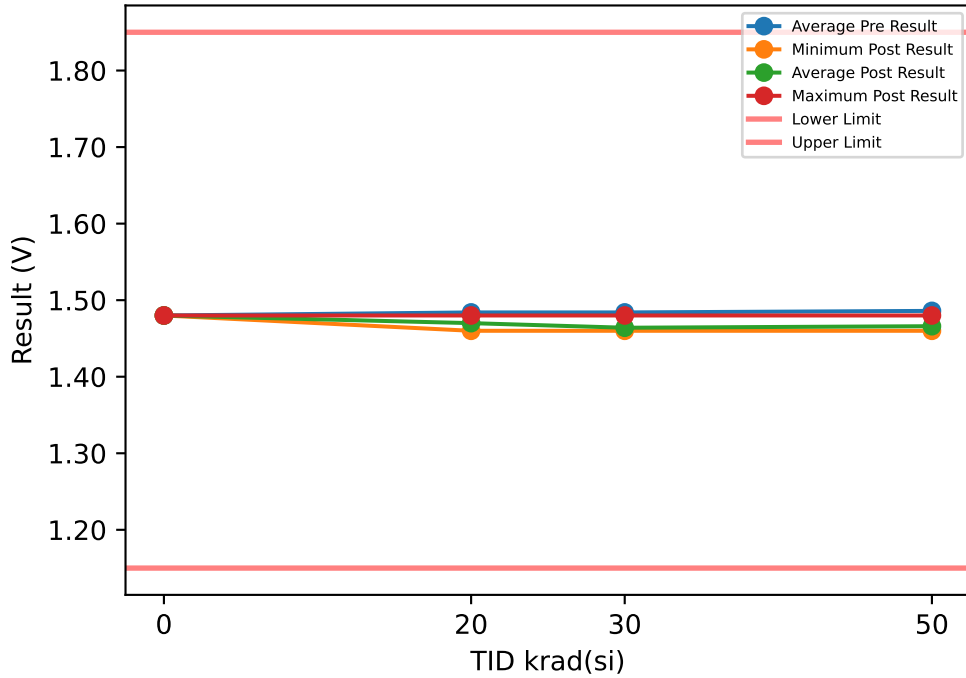


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.26 | 2.26 | 2.26 | | 2.26 | 2.26 | 2.26 | | 0 | 0 | 0 | |
| 20 | 2.24 | 2.25 | 2.26 | 0.010541 | 2.22 | 2.232 | 2.24 | 0.010328 | -0.02 | -0.018 | 0 | 0.0063246 |
| 30 | 2.24 | 2.254 | 2.26 | 0.0096609 | 2.2 | 2.222 | 2.24 | 0.011353 | -0.04 | -0.032 | 0 | 0.013984 |
| 50 | 2.24 | 2.258 | 2.26 | 0.0063246 | 2.2 | 2.214 | 2.22 | 0.0096609 | -0.06 | -0.044 | -0.04 | 0.0084327 |

Device Test: 91.1 V_IL(_PWM_LI Fall Thresh VIN_12V)

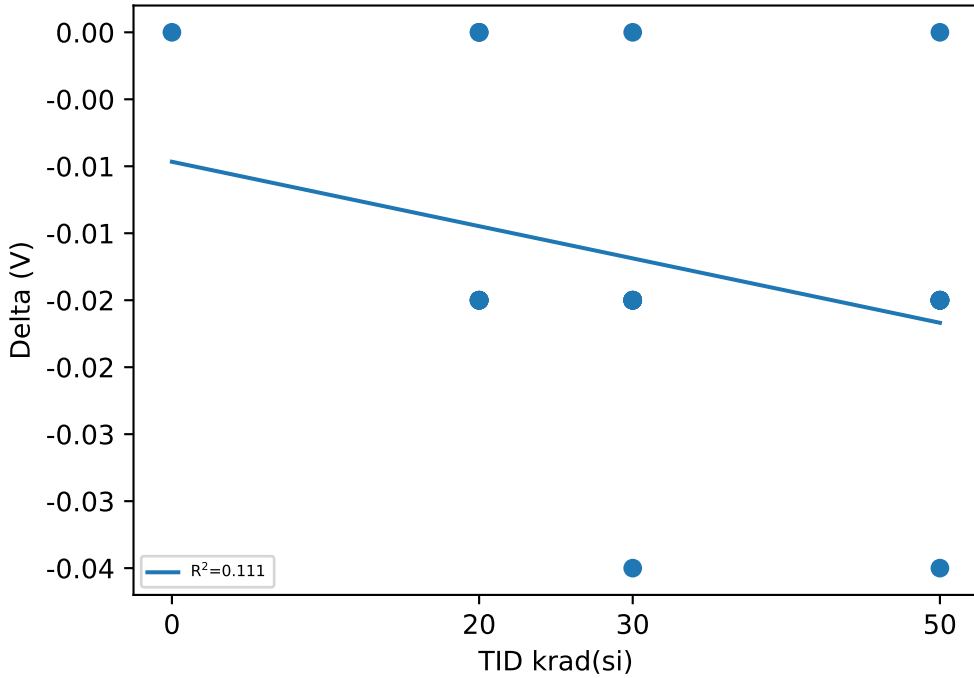
TID vs Result Stats



Test Results (Lower Limit = 1.15, Upper Limit = 1.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 1.48 | 1.48 | 0 |
| 321 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 322 | 20 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 323 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 324 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 325 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 331 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 332 | 30 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 333 | 30 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 334 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 335 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 351 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 352 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 353 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 354 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 355 | 50 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 521 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 522 | 20 | HDR biased | 1.48 | 1.46 | -0.02 |
| 523 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 524 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 525 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 531 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 532 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 533 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 534 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 535 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 551 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 552 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 553 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 554 | 50 | HDR biased | 1.48 | 1.48 | 0 |
| 555 | 50 | HDR biased | 1.5 | 1.48 | -0.02 |

TID vs Post - Pre Exposure Delta

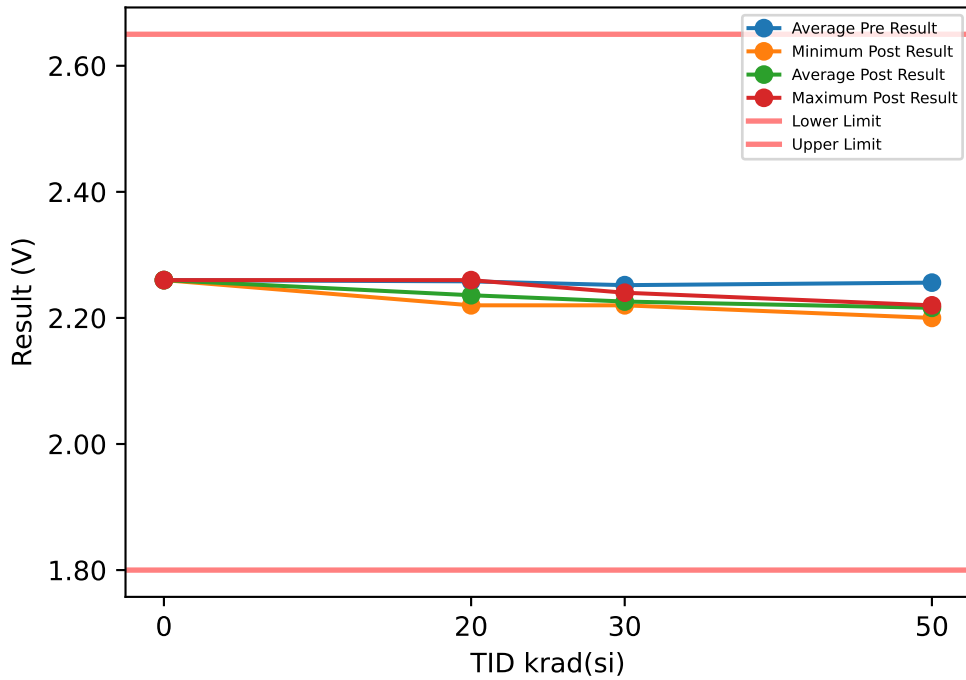


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.48 | 1.48 | 1.48 | | 1.48 | 1.48 | 1.48 | | 0 | 0 | 0 | |
| 20 | 1.48 | 1.484 | 1.5 | 0.0084327 | 1.46 | 1.47 | 1.48 | 0.010541 | -0.02 | -0.014 | 0 | 0.0096609 |
| 30 | 1.48 | 1.484 | 1.5 | 0.0084327 | 1.46 | 1.464 | 1.48 | 0.0084327 | -0.04 | -0.02 | 0 | 0.0094281 |
| 50 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.466 | 1.48 | 0.0096609 | -0.04 | -0.02 | 0 | 0.0094281 |

Device Test: 91.3 V_IH(_EN_HI Rise Thresh VIN_12V)

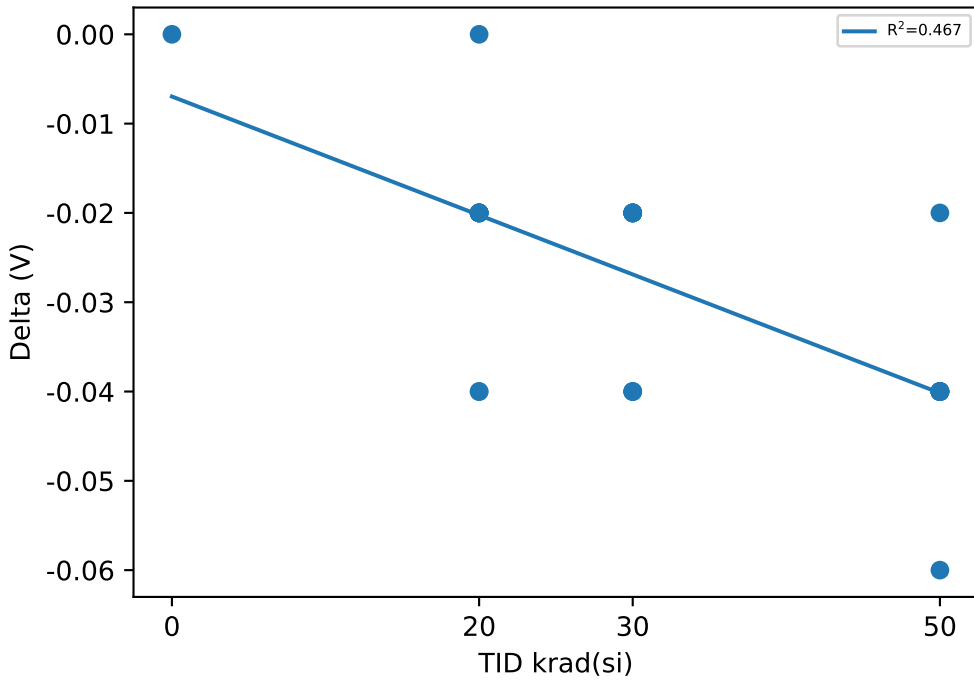
TID vs Result Stats



Test Results (Lower Limit = 1.8, Upper Limit = 2.65 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 2.26 | 2.26 | 0 |
| 321 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 322 | 20 | HDR unbiased | 2.28 | 2.24 | -0.04 |
| 323 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 324 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 325 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 331 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 332 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 333 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 334 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 335 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 351 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 352 | 50 | HDR unbiased | 2.24 | 2.2 | -0.04 |
| 353 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 354 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 355 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 521 | 20 | HDR biased | 2.28 | 2.24 | -0.04 |
| 522 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 523 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 524 | 20 | HDR biased | 2.26 | 2.26 | 0 |
| 525 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 531 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 532 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 533 | 30 | HDR biased | 2.26 | 2.24 | -0.02 |
| 534 | 30 | HDR biased | 2.26 | 2.24 | -0.02 |
| 535 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 551 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 552 | 50 | HDR biased | 2.24 | 2.22 | -0.02 |
| 553 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 554 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 555 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |

TID vs Post - Pre Exposure Delta

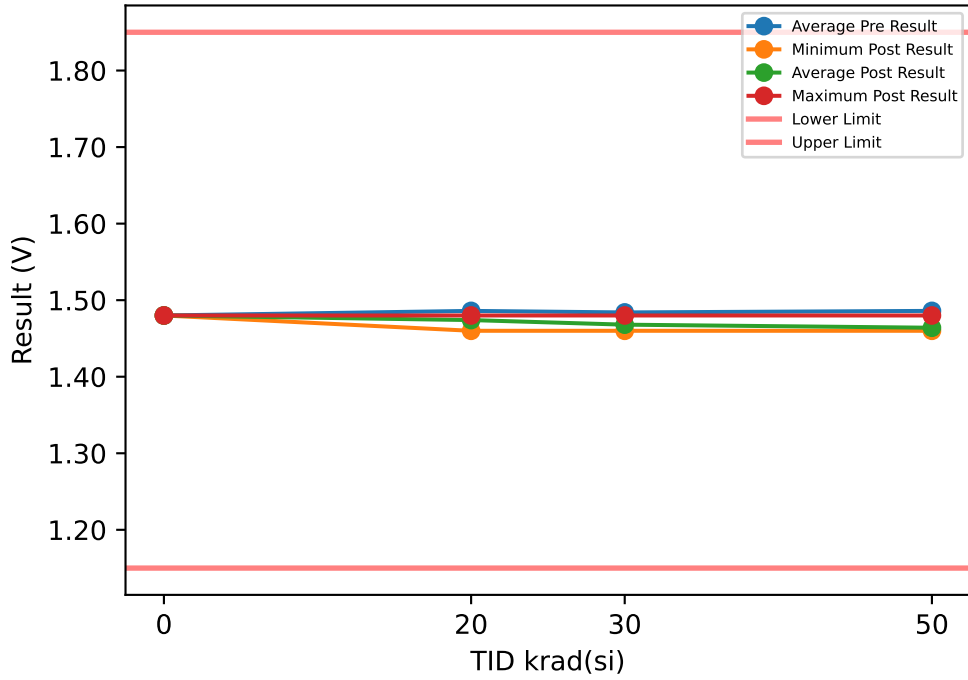


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.26 | 2.26 | 2.26 | | 2.26 | 2.26 | 2.26 | | 0 | 0 | 0 | |
| 20 | 2.24 | 2.258 | 2.28 | 0.014757 | 2.22 | 2.236 | 2.26 | 0.012649 | -0.04 | -0.022 | 0 | 0.011353 |
| 30 | 2.24 | 2.252 | 2.26 | 0.010328 | 2.22 | 2.226 | 2.24 | 0.0096609 | -0.04 | -0.026 | -0.02 | 0.0096609 |
| 50 | 2.24 | 2.256 | 2.26 | 0.0084327 | 2.2 | 2.216 | 2.22 | 0.0084327 | -0.06 | -0.04 | -0.02 | 0.0094281 |

Device Test: 91.4 V_IL(_EN_HI Fall Thresh VIN_12V)

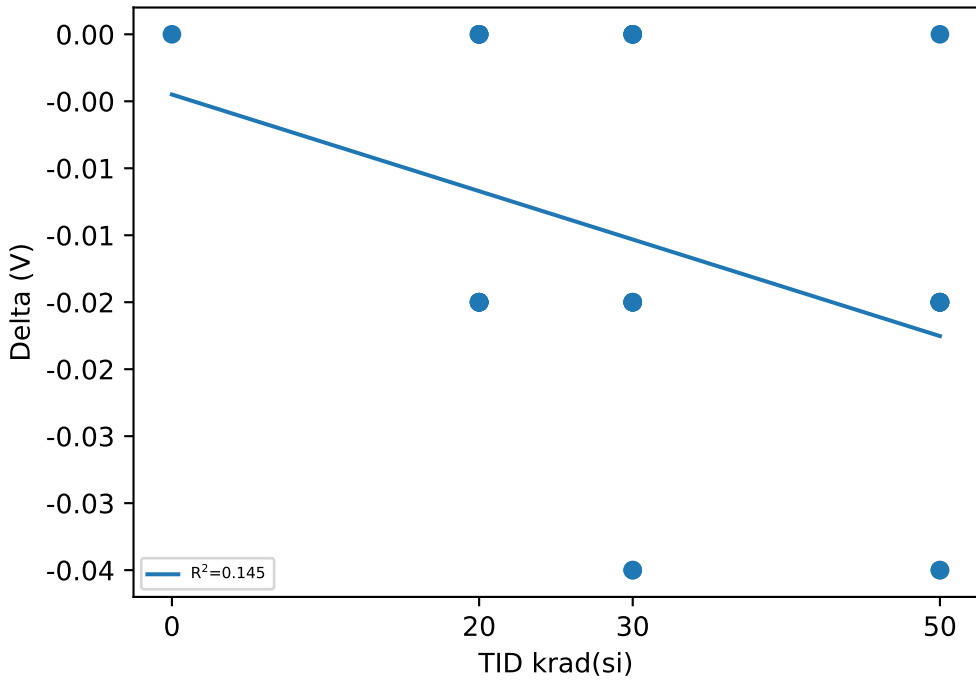
TID vs Result Stats



Test Results (Lower Limit = 1.15, Upper Limit = 1.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 1.48 | 1.48 | 0 |
| 321 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 322 | 20 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 323 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 324 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 325 | 20 | HDR unbiased | 1.48 | 1.48 | 0 |
| 331 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 332 | 30 | HDR unbiased | 1.48 | 1.48 | 0 |
| 333 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 334 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 335 | 30 | HDR unbiased | 1.48 | 1.48 | 0 |
| 351 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 352 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 353 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 354 | 50 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 355 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 521 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 522 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 523 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 524 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 525 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 531 | 30 | HDR biased | 1.5 | 1.46 | -0.04 |
| 532 | 30 | HDR biased | 1.5 | 1.46 | -0.04 |
| 533 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 534 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 535 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 551 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 552 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 553 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 554 | 50 | HDR biased | 1.5 | 1.46 | -0.04 |
| 555 | 50 | HDR biased | 1.48 | 1.48 | 0 |

TID vs Post - Pre Exposure Delta

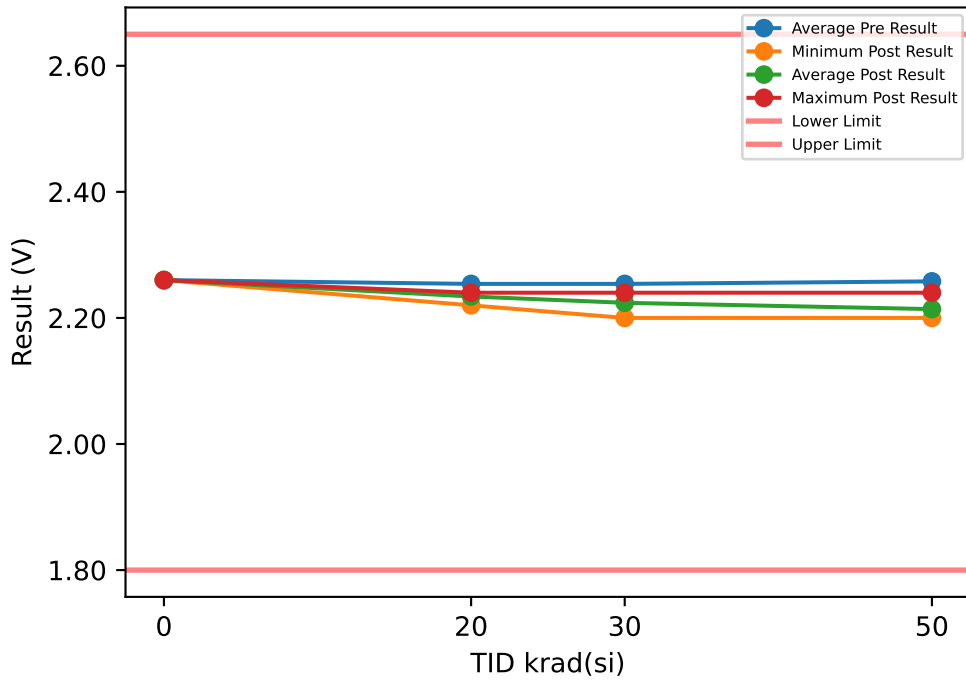


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.48 | 1.48 | 1.48 | | 1.48 | 1.48 | 1.48 | | 0 | 0 | 0 | |
| 20 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.474 | 1.48 | 0.0096609 | -0.02 | -0.012 | 0 | 0.010328 |
| 30 | 1.48 | 1.484 | 1.5 | 0.0084327 | 1.46 | 1.468 | 1.48 | 0.010328 | -0.04 | -0.016 | 0 | 0.015776 |
| 50 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.464 | 1.48 | 0.0084327 | -0.04 | -0.022 | 0 | 0.011353 |

Device Test: 92.0 V_IH(_PWM_LI Rise Thresh VIN_14V)

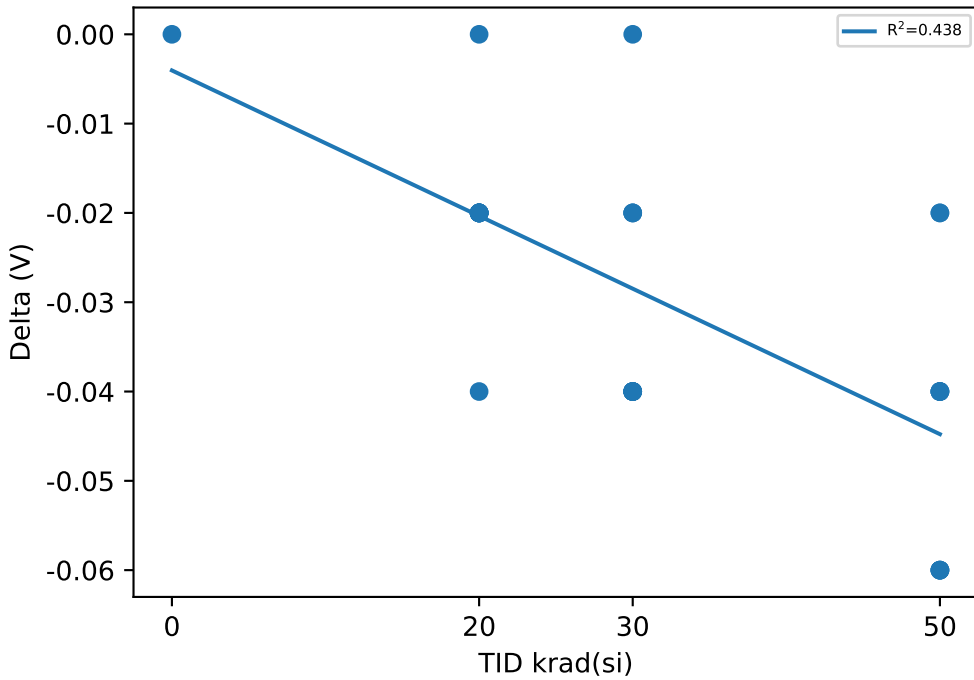
TID vs Result Stats



Test Results (Lower Limit = 1.8, Upper Limit = 2.65 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 2.26 | 2.26 | 0 |
| 321 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 322 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 323 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 324 | 20 | HDR unbiased | 2.24 | 2.24 | 0 |
| 325 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 331 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 332 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 333 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 334 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 335 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 351 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 352 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 353 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 354 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 355 | 50 | HDR unbiased | 2.26 | 2.2 | -0.06 |
| 521 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 522 | 20 | HDR biased | 2.26 | 2.22 | -0.04 |
| 523 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 524 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 525 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 531 | 30 | HDR biased | 2.24 | 2.2 | -0.04 |
| 532 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 533 | 30 | HDR biased | 2.24 | 2.24 | 0 |
| 534 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 535 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 551 | 50 | HDR biased | 2.26 | 2.24 | -0.02 |
| 552 | 50 | HDR biased | 2.24 | 2.22 | -0.02 |
| 553 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 554 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 555 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |

TID vs Post - Pre Exposure Delta

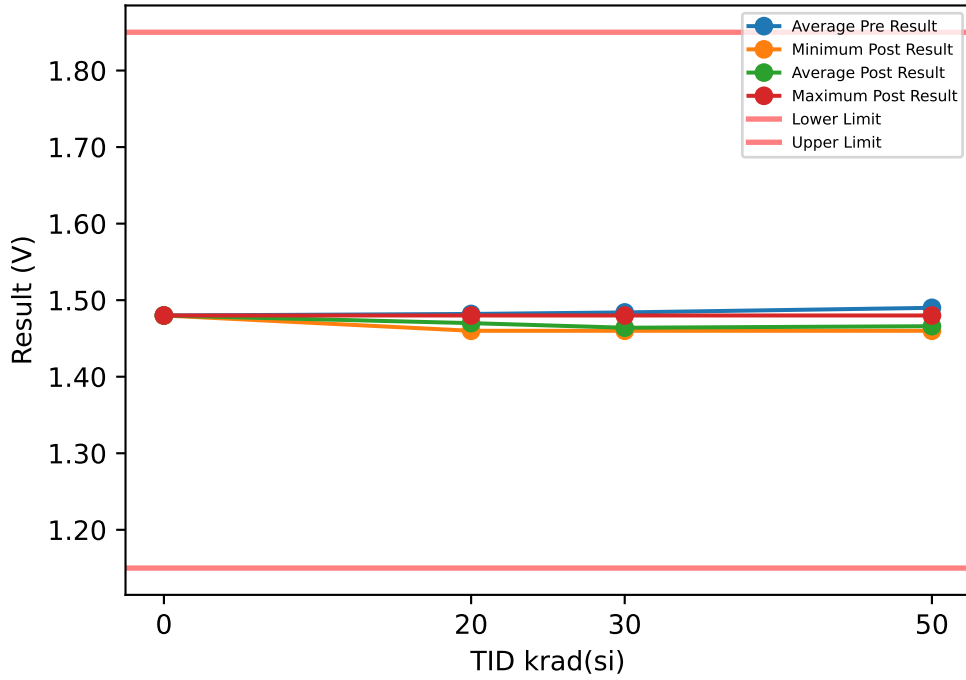


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.26 | 2.26 | 2.26 | | 2.26 | 2.26 | 2.26 | | 0 | 0 | 0 | |
| 20 | 2.24 | 2.254 | 2.26 | 0.0096609 | 2.22 | 2.234 | 2.24 | 0.0096609 | -0.04 | -0.02 | 0 | 0.0094281 |
| 30 | 2.24 | 2.254 | 2.26 | 0.0096609 | 2.2 | 2.224 | 2.24 | 0.012649 | -0.04 | -0.03 | 0 | 0.014142 |
| 50 | 2.24 | 2.258 | 2.26 | 0.0063246 | 2.2 | 2.214 | 2.24 | 0.013499 | -0.06 | -0.044 | -0.02 | 0.015776 |

Device Test: 92.1 V_IL(_PWM_LI Fall Thresh VIN_14V)

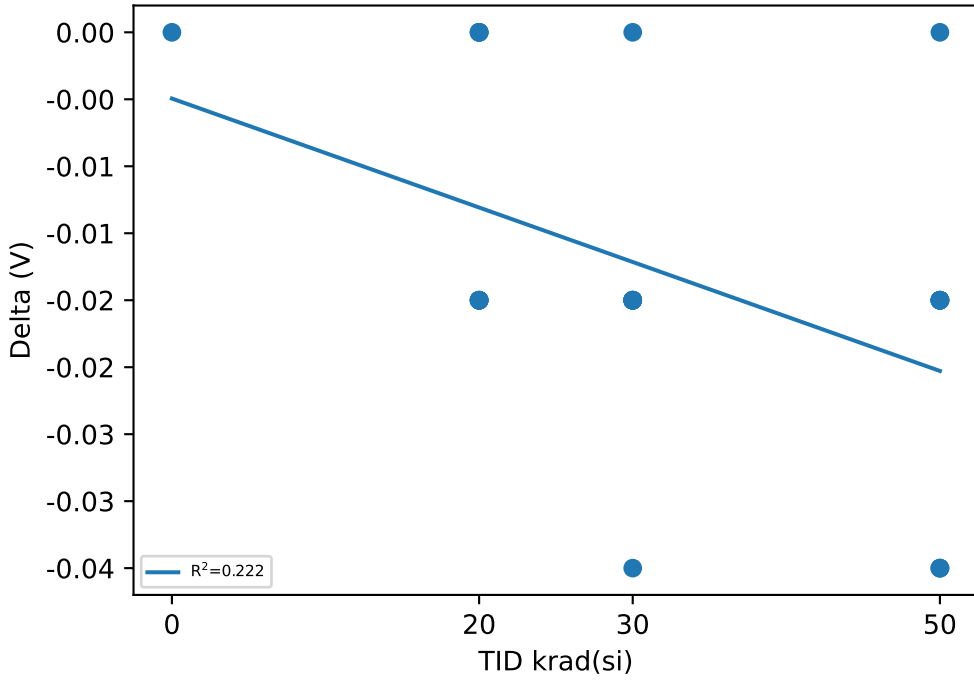
TID vs Result Stats



Test Results (Lower Limit = 1.15, Upper Limit = 1.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 1.48 | 1.48 | 0 |
| 321 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 322 | 20 | HDR unbiased | 1.48 | 1.48 | 0 |
| 323 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 324 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 325 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 331 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 332 | 30 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 333 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 334 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 335 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 351 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 352 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 353 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 354 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 355 | 50 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 521 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 522 | 20 | HDR biased | 1.48 | 1.46 | -0.02 |
| 523 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 524 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 525 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 531 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 532 | 30 | HDR biased | 1.5 | 1.46 | -0.04 |
| 533 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 534 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 535 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 551 | 50 | HDR biased | 1.48 | 1.48 | 0 |
| 552 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 553 | 50 | HDR biased | 1.5 | 1.46 | -0.04 |
| 554 | 50 | HDR biased | 1.5 | 1.46 | -0.04 |
| 555 | 50 | HDR biased | 1.5 | 1.48 | -0.02 |

TID vs Post - Pre Exposure Delta

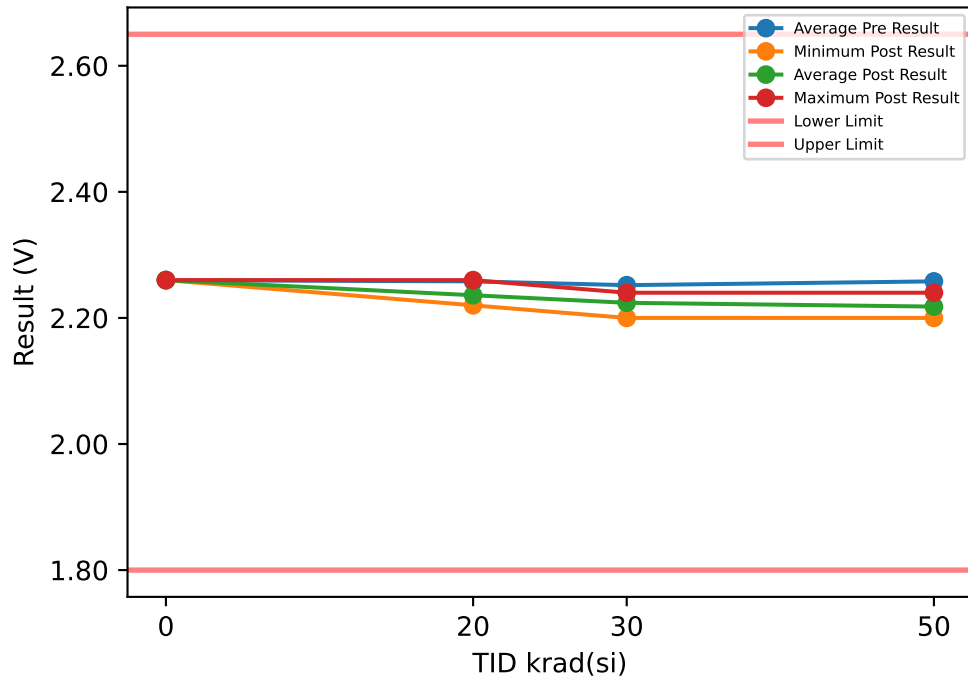


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.48 | 1.48 | 1.48 | | 1.48 | 1.48 | 1.48 | | 0 | 0 | 0 | |
| 20 | 1.48 | 1.482 | 1.5 | 0.0063246 | 1.46 | 1.47 | 1.48 | 0.010541 | -0.02 | -0.012 | 0 | 0.010328 |
| 30 | 1.48 | 1.484 | 1.5 | 0.0084327 | 1.46 | 1.464 | 1.48 | 0.0084327 | -0.04 | -0.02 | 0 | 0.0094281 |
| 50 | 1.48 | 1.49 | 1.5 | 0.010541 | 1.46 | 1.466 | 1.48 | 0.0096609 | -0.04 | -0.024 | 0 | 0.012649 |

Device Test: 92.3 V_IH(_EN_HI Rise Thresh VIN_14V)

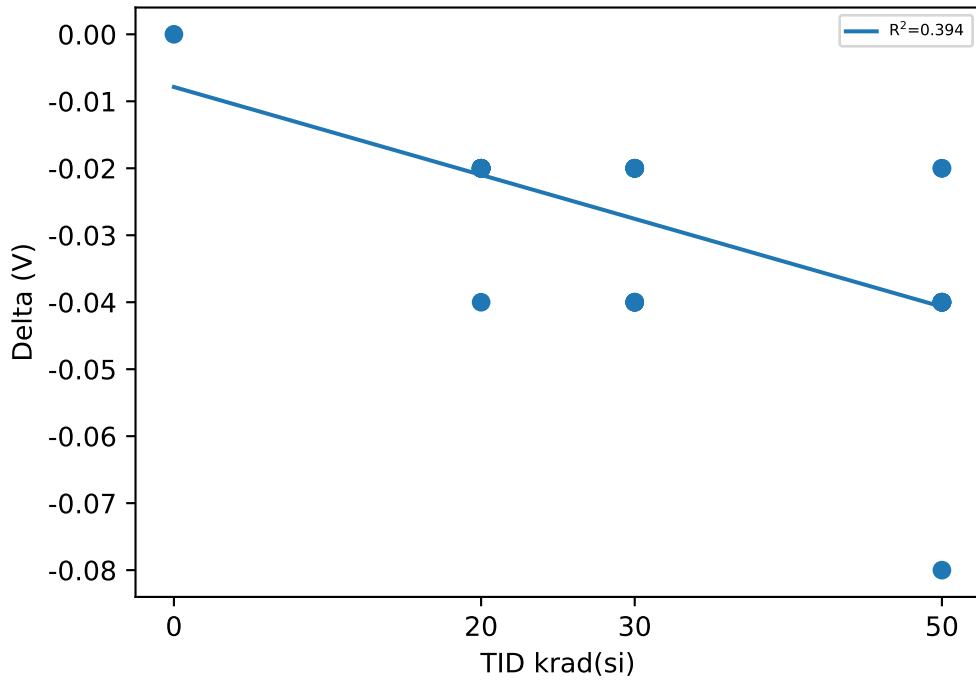
TID vs Result Stats



Test Results (Lower Limit = 1.8, Upper Limit = 2.65 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 2.26 | 2.26 | 0 |
| 321 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 322 | 20 | HDR unbiased | 2.28 | 2.26 | -0.02 |
| 323 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 324 | 20 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 325 | 20 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 331 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 332 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 333 | 30 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 334 | 30 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 335 | 30 | HDR unbiased | 2.26 | 2.24 | -0.02 |
| 351 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 352 | 50 | HDR unbiased | 2.24 | 2.2 | -0.04 |
| 353 | 50 | HDR unbiased | 2.26 | 2.22 | -0.04 |
| 354 | 50 | HDR unbiased | 2.24 | 2.22 | -0.02 |
| 355 | 50 | HDR unbiased | 2.28 | 2.2 | -0.08 |
| 521 | 20 | HDR biased | 2.28 | 2.24 | -0.04 |
| 522 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 523 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 524 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 525 | 20 | HDR biased | 2.26 | 2.24 | -0.02 |
| 531 | 30 | HDR biased | 2.24 | 2.2 | -0.04 |
| 532 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 533 | 30 | HDR biased | 2.26 | 2.22 | -0.04 |
| 534 | 30 | HDR biased | 2.26 | 2.24 | -0.02 |
| 535 | 30 | HDR biased | 2.24 | 2.22 | -0.02 |
| 551 | 50 | HDR biased | 2.26 | 2.24 | -0.02 |
| 552 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 553 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 554 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |
| 555 | 50 | HDR biased | 2.26 | 2.22 | -0.04 |

TID vs Post - Pre Exposure Delta

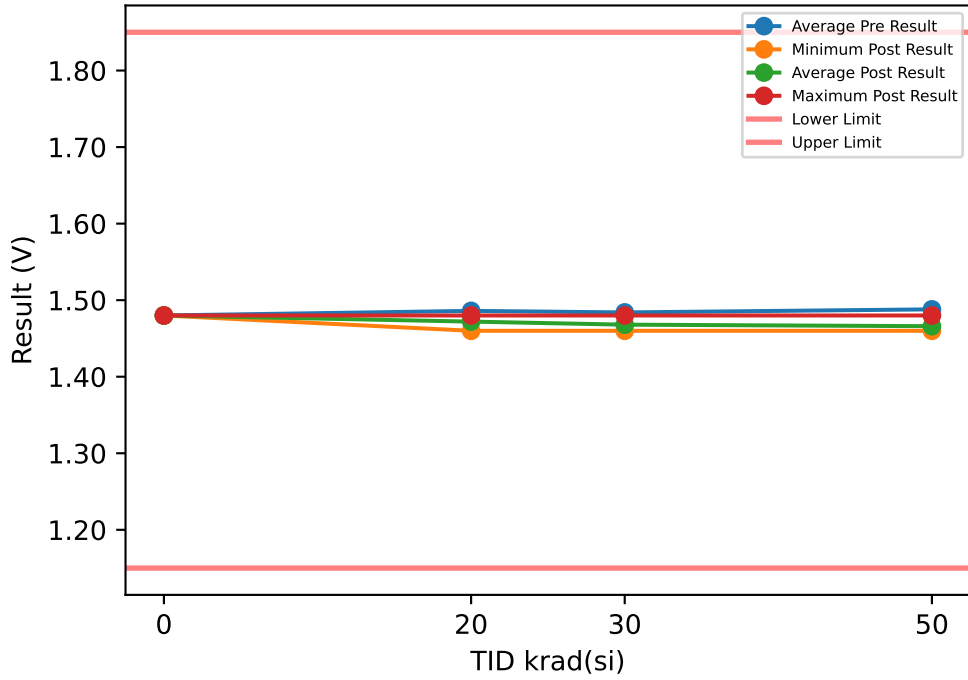


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 2.26 | 2.26 | 2.26 | | 2.26 | 2.26 | 2.26 | | 0 | 0 | 0 | |
| 20 | 2.24 | 2.258 | 2.28 | 0.014757 | 2.22 | 2.236 | 2.26 | 0.012649 | -0.04 | -0.022 | -0.02 | 0.0063246 |
| 30 | 2.24 | 2.252 | 2.26 | 0.010328 | 2.2 | 2.224 | 2.24 | 0.012649 | -0.04 | -0.028 | -0.02 | 0.010328 |
| 50 | 2.24 | 2.258 | 2.28 | 0.011353 | 2.2 | 2.218 | 2.24 | 0.011353 | -0.08 | -0.04 | -0.02 | 0.01633 |

Device Test: 92.4 V_IL(_EN_HI Fall Thresh VIN_14V)

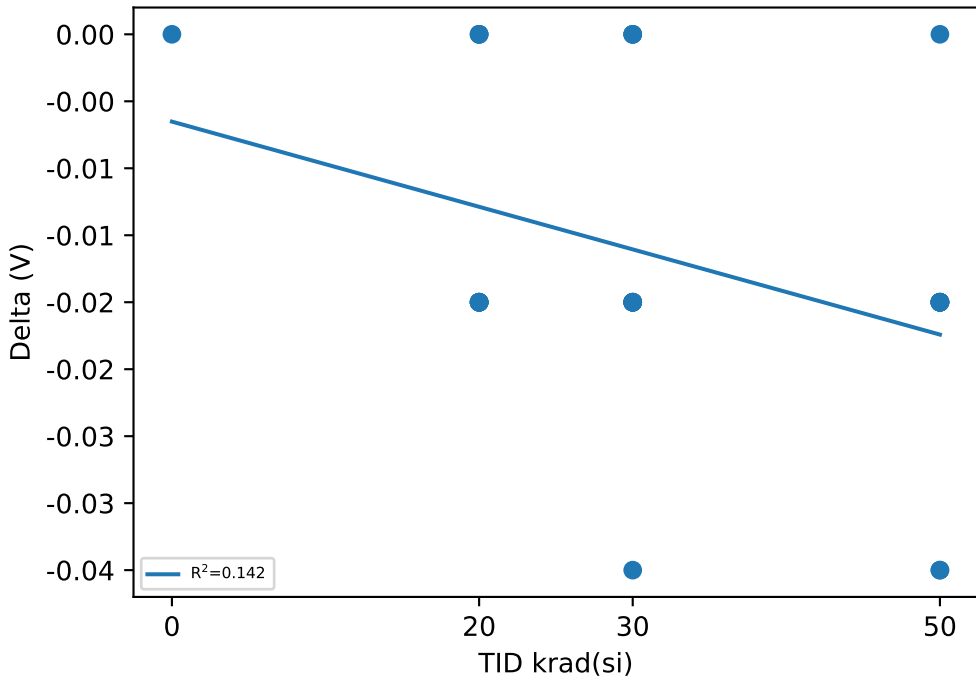
TID vs Result Stats



Test Results (Lower Limit = 1.15, Upper Limit = 1.85 (V))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|-------|
| 1 | 0 | correlation | 1.48 | 1.48 | 0 |
| 321 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 322 | 20 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 323 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 324 | 20 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 325 | 20 | HDR unbiased | 1.48 | 1.48 | 0 |
| 331 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 332 | 30 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 333 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 334 | 30 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 335 | 30 | HDR unbiased | 1.48 | 1.48 | 0 |
| 351 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 352 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 353 | 50 | HDR unbiased | 1.48 | 1.46 | -0.02 |
| 354 | 50 | HDR unbiased | 1.5 | 1.48 | -0.02 |
| 355 | 50 | HDR unbiased | 1.5 | 1.46 | -0.04 |
| 521 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 522 | 20 | HDR biased | 1.48 | 1.46 | -0.02 |
| 523 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 524 | 20 | HDR biased | 1.5 | 1.48 | -0.02 |
| 525 | 20 | HDR biased | 1.48 | 1.48 | 0 |
| 531 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 532 | 30 | HDR biased | 1.5 | 1.46 | -0.04 |
| 533 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 534 | 30 | HDR biased | 1.48 | 1.48 | 0 |
| 535 | 30 | HDR biased | 1.48 | 1.46 | -0.02 |
| 551 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 552 | 50 | HDR biased | 1.48 | 1.46 | -0.02 |
| 553 | 50 | HDR biased | 1.5 | 1.46 | -0.04 |
| 554 | 50 | HDR biased | 1.5 | 1.48 | -0.02 |
| 555 | 50 | HDR biased | 1.48 | 1.48 | 0 |

TID vs Post - Pre Exposure Delta

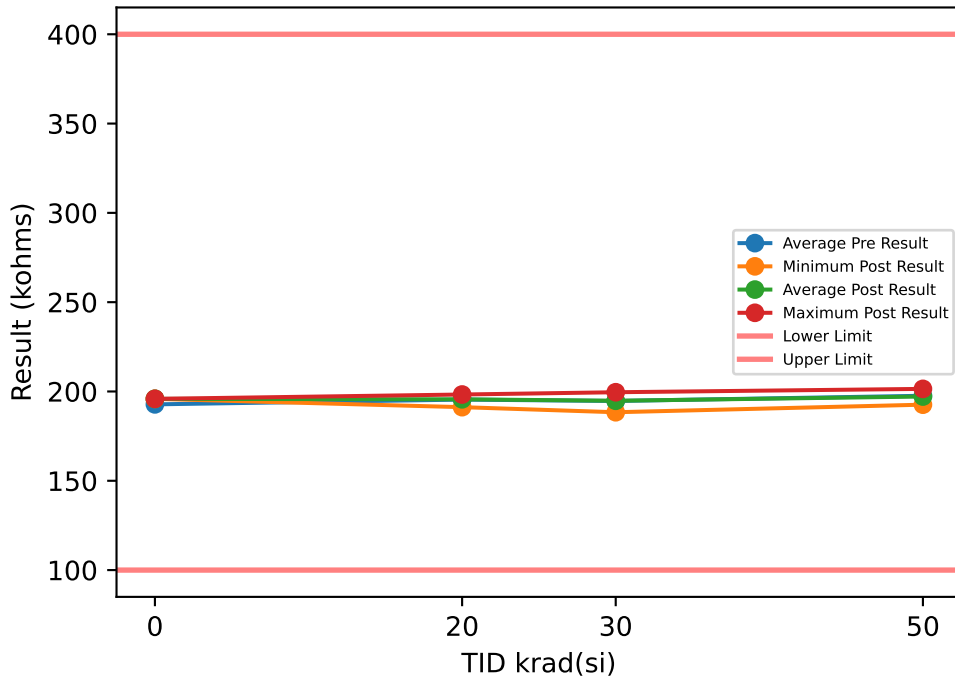


Test Statistics (V)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 1.48 | 1.48 | 1.48 | | 1.48 | 1.48 | 1.48 | | 0 | 0 | 0 | |
| 20 | 1.48 | 1.486 | 1.5 | 0.0096609 | 1.46 | 1.472 | 1.48 | 0.010328 | -0.02 | -0.014 | 0 | 0.0096609 |
| 30 | 1.48 | 1.484 | 1.5 | 0.0084327 | 1.46 | 1.468 | 1.48 | 0.010328 | -0.04 | -0.016 | 0 | 0.012649 |
| 50 | 1.48 | 1.488 | 1.5 | 0.010328 | 1.46 | 1.466 | 1.48 | 0.0096609 | -0.04 | -0.022 | 0 | 0.011353 |

Device Test: 92.6 R_PD(_PWM_LI Pull Down Resistance VIN_14V)

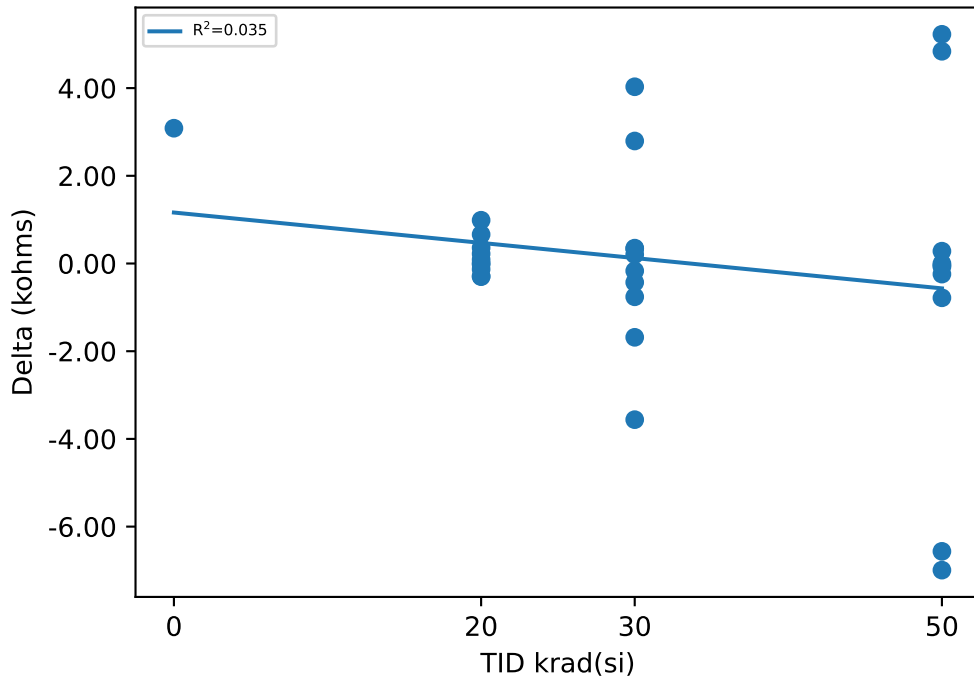
TID vs Result Stats



Test Results (Lower Limit = 100.0, Upper Limit = 400.0 (kohms))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 192.78 | 195.87 | 3.0853 |
| 321 | 20 | HDR unbiased | 191.35 | 191.22 | -0.1302 |
| 322 | 20 | HDR unbiased | 194.79 | 194.5 | -0.288 |
| 323 | 20 | HDR unbiased | 191.26 | 191.62 | 0.3586 |
| 324 | 20 | HDR unbiased | 198.32 | 198.3 | -0.0191 |
| 325 | 20 | HDR unbiased | 195 | 195.01 | 0.0075 |
| 331 | 30 | HDR unbiased | 190.33 | 190.54 | 0.2036 |
| 332 | 30 | HDR unbiased | 198.18 | 197.75 | -0.4298 |
| 333 | 30 | HDR unbiased | 189.36 | 189.7 | 0.3347 |
| 334 | 30 | HDR unbiased | 193.45 | 193.28 | -0.1688 |
| 335 | 30 | HDR unbiased | 189.13 | 188.38 | -0.7592 |
| 351 | 50 | HDR unbiased | 201.02 | 194.46 | -6.564 |
| 352 | 50 | HDR unbiased | 200.59 | 199.81 | -0.7821 |
| 353 | 50 | HDR unbiased | 195.38 | 200.22 | 4.8398 |
| 354 | 50 | HDR unbiased | 199.61 | 192.61 | -6.9925 |
| 355 | 50 | HDR unbiased | 193.71 | 198.94 | 5.2267 |
| 521 | 20 | HDR biased | 197.54 | 197.63 | 0.0892 |
| 522 | 20 | HDR biased | 196.08 | 196.74 | 0.6625 |
| 523 | 20 | HDR biased | 197.07 | 197.29 | 0.2221 |
| 524 | 20 | HDR biased | 197 | 196.7 | -0.3001 |
| 525 | 20 | HDR biased | 196.17 | 197.16 | 0.9869 |
| 531 | 30 | HDR biased | 199.1 | 195.54 | -3.5609 |
| 532 | 30 | HDR biased | 196.78 | 199.58 | 2.7939 |
| 533 | 30 | HDR biased | 198.45 | 196.77 | -1.6831 |
| 534 | 30 | HDR biased | 196.57 | 196.92 | 0.3503 |
| 535 | 30 | HDR biased | 195.47 | 199.5 | 4.0306 |
| 551 | 50 | HDR biased | 197.96 | 197.89 | -0.0718 |
| 552 | 50 | HDR biased | 194.97 | 194.93 | -0.0426 |
| 553 | 50 | HDR biased | 194.88 | 195.16 | 0.2813 |
| 554 | 50 | HDR biased | 196.43 | 196.19 | -0.2417 |
| 555 | 50 | HDR biased | 201.45 | 201.45 | -0.001 |

TID vs Post - Pre Exposure Delta

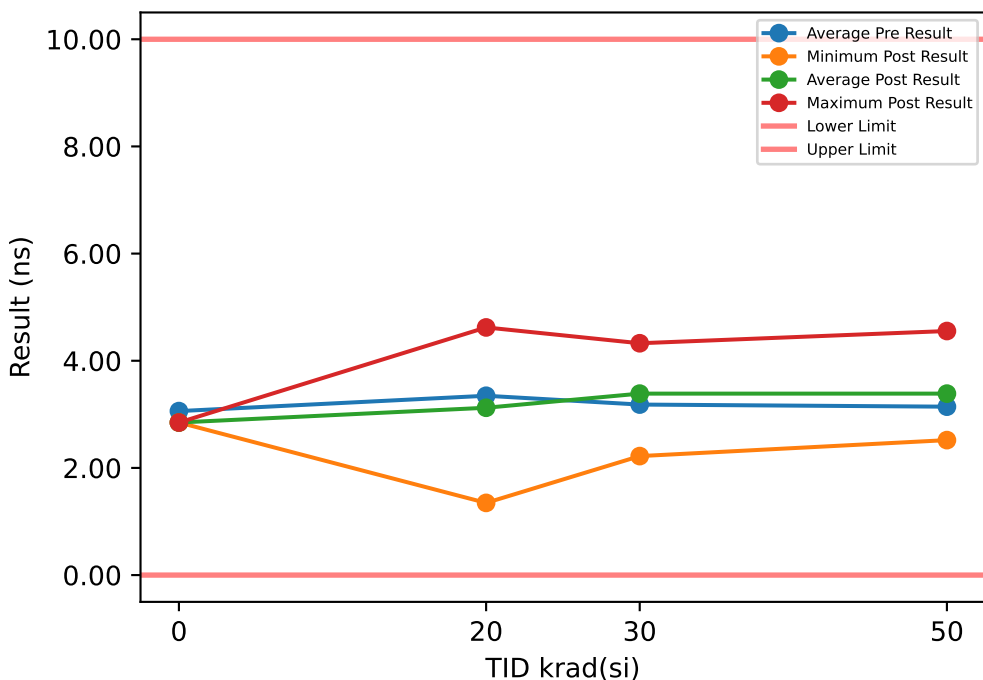


Test Statistics (kohms)

| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 192.78 | 192.78 | 192.78 | | 195.87 | 195.87 | 195.87 | | 3.0853 | 3.0853 | 3.0853 | |
| 20 | 191.26 | 195.46 | 198.32 | 2.44 | 191.22 | 195.62 | 198.3 | 2.4909 | -0.3001 | 0.15894 | 0.9869 | 0.41319 |
| 30 | 189.13 | 194.68 | 199.1 | 3.8605 | 188.38 | 194.79 | 199.58 | 4.0869 | -3.5609 | 0.11113 | 4.0306 | 2.1215 |
| 50 | 193.71 | 197.6 | 201.45 | 2.8937 | 192.61 | 197.17 | 201.45 | 2.9143 | -6.9925 | -0.43479 | 5.2267 | 3.9664 |

Device Test: 95.0 T_RLH_MIN(_DLH Dead Time Min 500kHz VIN_10V)

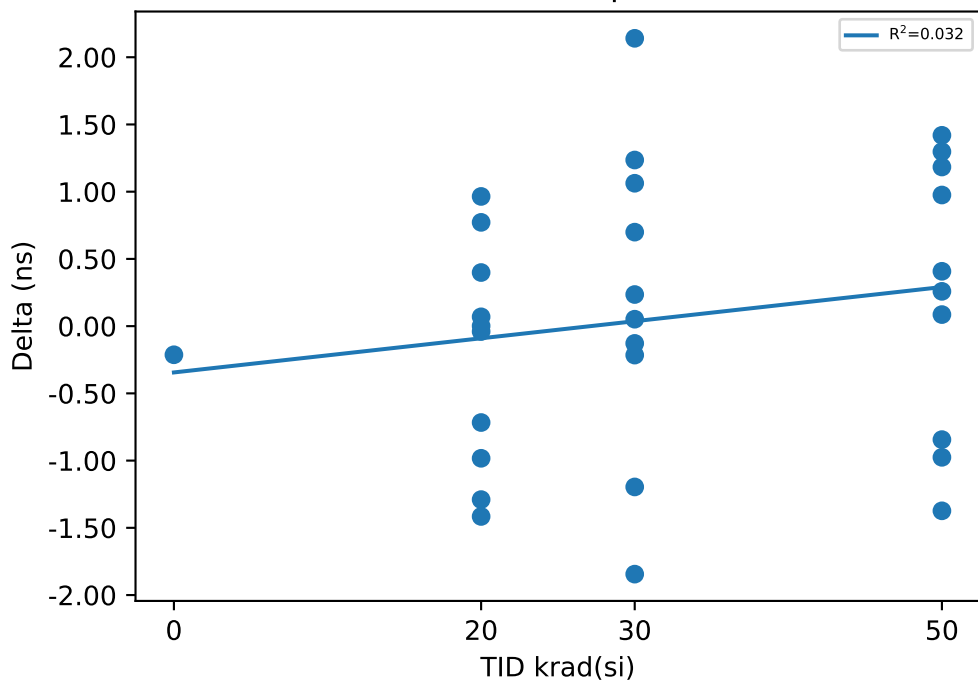
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.0604 | 2.8475 | -0.2129 |
| 321 | 20 | HDR unbiased | 4.2389 | 3.5221 | -0.7168 |
| 322 | 20 | HDR unbiased | 3.3791 | 2.0891 | -1.29 |
| 323 | 20 | HDR unbiased | 1.3456 | 1.3473 | 0.0017 |
| 324 | 20 | HDR unbiased | 3.4208 | 3.3808 | -0.04 |
| 325 | 20 | HDR unbiased | 2.649 | 3.4209 | 0.7719 |
| 331 | 30 | HDR unbiased | 2.873 | 4.1086 | 1.2356 |
| 332 | 30 | HDR unbiased | 1.6853 | 2.748 | 1.0627 |
| 333 | 30 | HDR unbiased | 3.7776 | 3.5623 | -0.2153 |
| 334 | 30 | HDR unbiased | 3.6989 | 3.7505 | 0.0516 |
| 335 | 30 | HDR unbiased | 3.4131 | 3.2848 | -0.1283 |
| 351 | 50 | HDR unbiased | 3.1719 | 3.4307 | 0.2588 |
| 352 | 50 | HDR unbiased | 3.7764 | 2.8008 | -0.9756 |
| 353 | 50 | HDR unbiased | 3.3713 | 4.5549 | 1.1836 |
| 354 | 50 | HDR unbiased | 2.4843 | 3.4596 | 0.9753 |
| 355 | 50 | HDR unbiased | 3.4457 | 2.6018 | -0.8439 |
| 521 | 20 | HDR biased | 3.6919 | 2.7091 | -0.9828 |
| 522 | 20 | HDR biased | 3.4493 | 3.5186 | 0.0693 |
| 523 | 20 | HDR biased | 2.9953 | 3.3941 | 0.3988 |
| 524 | 20 | HDR biased | 3.6571 | 4.6218 | 0.9647 |
| 525 | 20 | HDR biased | 4.6399 | 3.2245 | -1.4154 |
| 531 | 30 | HDR biased | 1.9956 | 4.1363 | 2.1407 |
| 532 | 30 | HDR biased | 2.8986 | 3.1338 | 0.2352 |
| 533 | 30 | HDR biased | 3.6275 | 4.3266 | 0.6991 |
| 534 | 30 | HDR biased | 3.7898 | 2.5939 | -1.1959 |
| 535 | 30 | HDR biased | 4.0651 | 2.2207 | -1.8444 |
| 551 | 50 | HDR biased | 3.6259 | 4.0338 | 0.4079 |
| 552 | 50 | HDR biased | 2.1049 | 3.5242 | 1.4193 |
| 553 | 50 | HDR biased | 4.2186 | 2.8451 | -1.3735 |
| 554 | 50 | HDR biased | 2.799 | 4.0966 | 1.2976 |
| 555 | 50 | HDR biased | 2.4328 | 2.5188 | 0.086 |

TID vs Post - Pre Exposure Delta

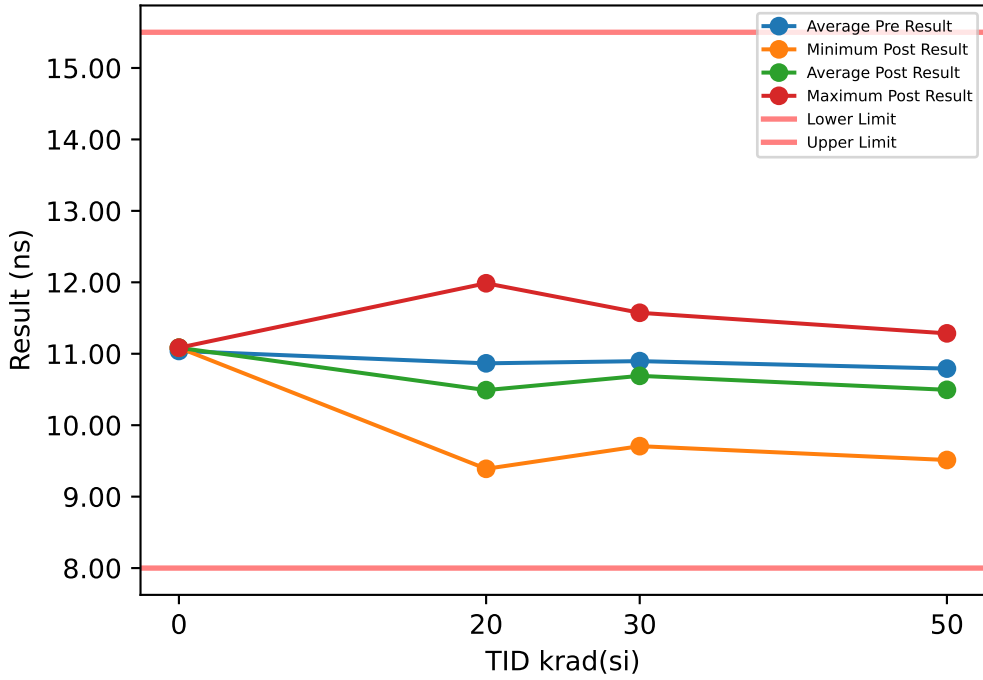


Test Statistics (ns)

| 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 | 3.0604 | 3.0604 | 3.0604 | | 2.8475 | 2.8475 | 2.8475 | | -0.2129 | -0.2129 | -0.2129 | |
| 20 | 1.3456 | 3.3467 | 4.6399 | 0.90158 | 1.3473 | 3.1228 | 4.6218 | 0.89409 | -1.4154 | -0.22386 | 0.9647 | 0.83918 |
| 30 | 1.6853 | 3.1825 | 4.0651 | 0.80599 | 2.2207 | 3.3865 | 4.3266 | 0.71492 | -1.8444 | 0.2041 | 2.1407 | 1.1673 |
| 50 | 2.1049 | 3.1431 | 4.2186 | 0.67249 | 2.5188 | 3.3866 | 4.5549 | 0.69278 | -1.3735 | 0.24355 | 1.4193 | 1.0137 |

Device Test: 95.1 T_RLH_SMALL(_DLHDead Time Small 500kHz VIN_10V)

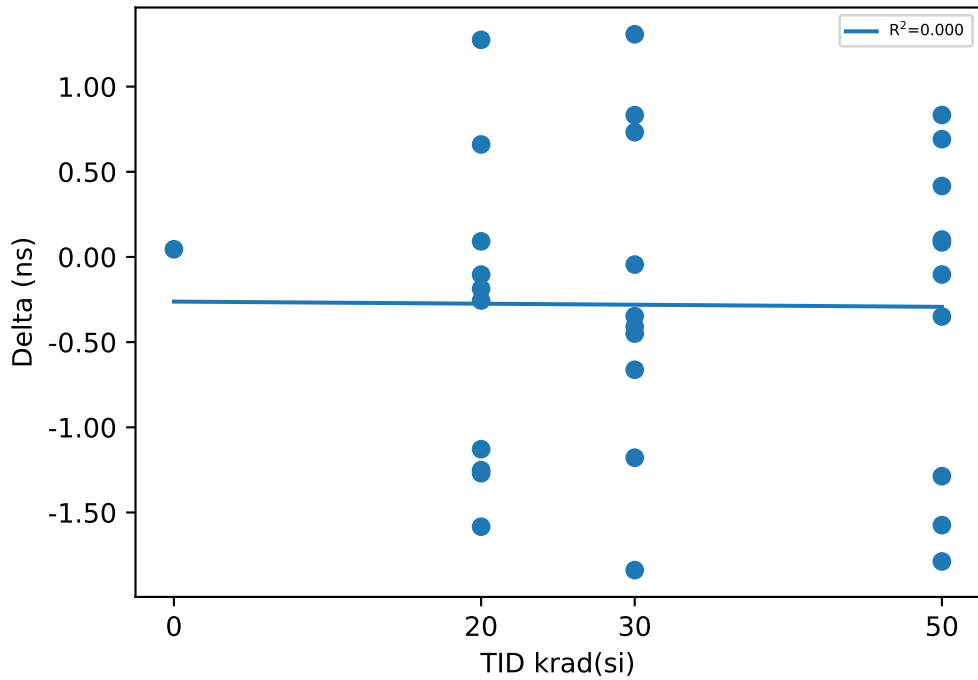
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 11.039 | 11.084 | 0.0451 |
| 321 | 20 | HDR unbiased | 11.585 | 10.315 | -1.2697 |
| 322 | 20 | HDR unbiased | 10.885 | 9.6331 | -1.2515 |
| 323 | 20 | HDR unbiased | 9.2978 | 9.3894 | 0.0916 |
| 324 | 20 | HDR unbiased | 10.964 | 10.86 | -0.1037 |
| 325 | 20 | HDR unbiased | 9.9776 | 10.638 | 0.6605 |
| 331 | 30 | HDR unbiased | 10.424 | 11.256 | 0.8326 |
| 332 | 30 | HDR unbiased | 9.8763 | 10.609 | 0.7324 |
| 333 | 30 | HDR unbiased | 11.096 | 10.433 | -0.6624 |
| 334 | 30 | HDR unbiased | 11.342 | 10.933 | -0.4087 |
| 335 | 30 | HDR unbiased | 11.074 | 10.727 | -0.3477 |
| 351 | 50 | HDR unbiased | 10.42 | 10.836 | 0.4165 |
| 352 | 50 | HDR unbiased | 11.3 | 9.5129 | -1.7874 |
| 353 | 50 | HDR unbiased | 11.183 | 11.285 | 0.1022 |
| 354 | 50 | HDR unbiased | 10.257 | 10.342 | 0.0856 |
| 355 | 50 | HDR unbiased | 10.985 | 9.6978 | -1.287 |
| 521 | 20 | HDR biased | 11.41 | 10.282 | -1.1284 |
| 522 | 20 | HDR biased | 11.225 | 11.039 | -0.1867 |
| 523 | 20 | HDR biased | 10.522 | 10.266 | -0.2555 |
| 524 | 20 | HDR biased | 10.712 | 11.986 | 1.2745 |
| 525 | 20 | HDR biased | 12.083 | 10.499 | -1.5835 |
| 531 | 30 | HDR biased | 9.9571 | 11.264 | 1.307 |
| 532 | 30 | HDR biased | 10.651 | 10.201 | -0.4502 |
| 533 | 30 | HDR biased | 11.618 | 11.573 | -0.0447 |
| 534 | 30 | HDR biased | 11.384 | 10.206 | -1.1786 |
| 535 | 30 | HDR biased | 11.545 | 9.7067 | -1.8384 |
| 551 | 50 | HDR biased | 11.184 | 11.081 | -0.103 |
| 552 | 50 | HDR biased | 10.262 | 11.095 | 0.8332 |
| 553 | 50 | HDR biased | 11.509 | 9.9345 | -1.5744 |
| 554 | 50 | HDR biased | 10.514 | 11.205 | 0.6913 |
| 555 | 50 | HDR biased | 10.31 | 9.9606 | -0.3495 |

TID vs Post - Pre Exposure Delta

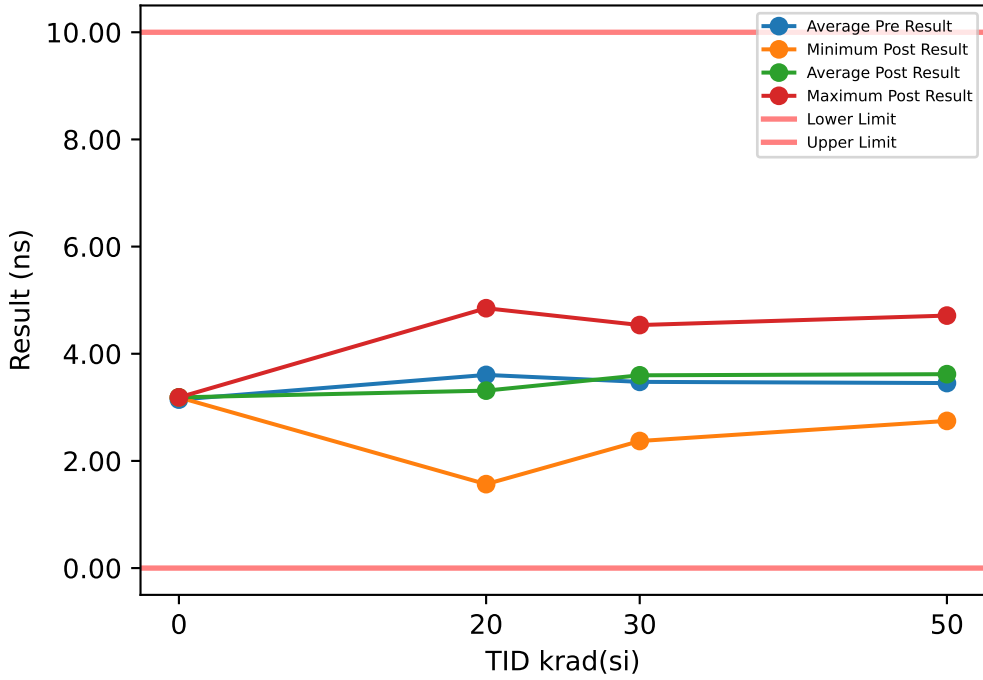


Test Statistics (ns)

| 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 | 11.039 | 11.039 | 11.039 | | 11.084 | 11.084 | 11.084 | | 0.0451 | 0.0451 | 0.0451 | |
| 20 | 9.2978 | 10.866 | 12.083 | 0.80434 | 9.3894 | 10.491 | 11.986 | 0.72798 | -1.5835 | -0.37524 | 1.2745 | 0.92682 |
| 30 | 9.8763 | 10.897 | 11.618 | 0.63735 | 9.7067 | 10.691 | 11.573 | 0.57781 | -1.8384 | -0.20587 | 1.307 | 0.95535 |
| 50 | 10.257 | 10.792 | 11.509 | 0.48674 | 9.5129 | 10.495 | 11.285 | 0.68088 | -1.7874 | -0.29725 | 0.8332 | 0.93941 |

Device Test: 95.10 T_RLH_MIN(_DLH Dead Time Min 2MHz VIN_10V)

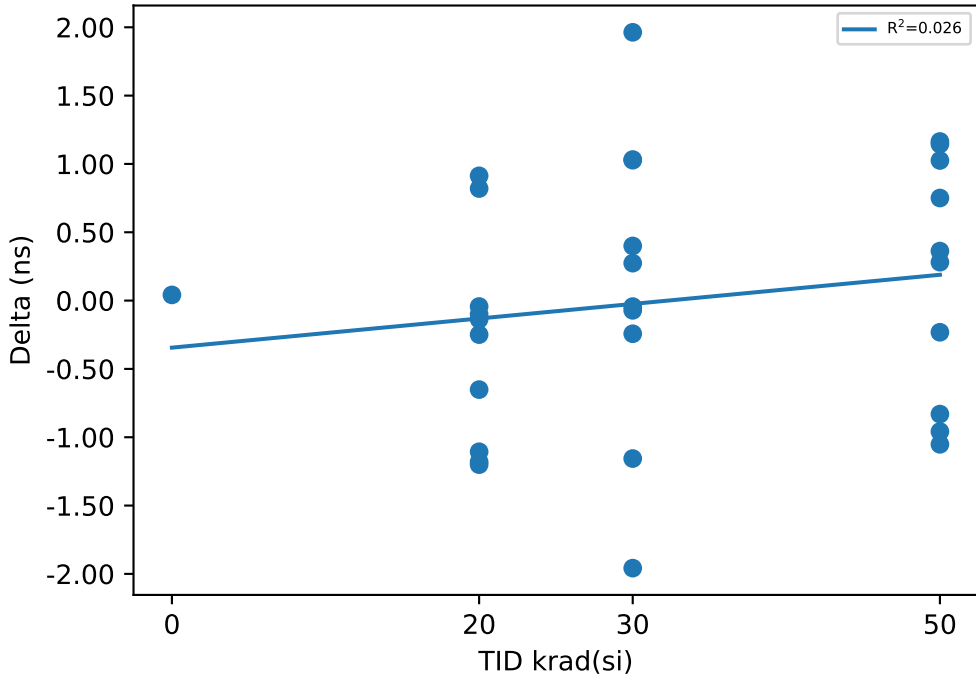
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.1443 | 3.1858 | 0.0415 |
| 321 | 20 | HDR unbiased | 4.3531 | 3.7017 | -0.6514 |
| 322 | 20 | HDR unbiased | 3.6056 | 2.405 | -1.2006 |
| 323 | 20 | HDR unbiased | 1.8155 | 1.5665 | -0.249 |
| 324 | 20 | HDR unbiased | 3.7498 | 3.7065 | -0.0433 |
| 325 | 20 | HDR unbiased | 2.8018 | 3.6217 | 0.8199 |
| 331 | 30 | HDR unbiased | 3.1873 | 4.2145 | 1.0272 |
| 332 | 30 | HDR unbiased | 1.9327 | 2.9649 | 1.0322 |
| 333 | 30 | HDR unbiased | 4.0222 | 3.9783 | -0.0439 |
| 334 | 30 | HDR unbiased | 4.1515 | 3.9088 | -0.2427 |
| 335 | 30 | HDR unbiased | 3.5319 | 3.4605 | -0.0714 |
| 351 | 50 | HDR unbiased | 3.419 | 3.6999 | 0.2809 |
| 352 | 50 | HDR unbiased | 3.8221 | 2.8638 | -0.9583 |
| 353 | 50 | HDR unbiased | 3.6871 | 4.7124 | 1.0253 |
| 354 | 50 | HDR unbiased | 2.9525 | 3.7031 | 0.7506 |
| 355 | 50 | HDR unbiased | 3.5773 | 2.7466 | -0.8307 |
| 521 | 20 | HDR biased | 4.0739 | 2.9677 | -1.1062 |
| 522 | 20 | HDR biased | 3.7669 | 3.6302 | -0.1367 |
| 523 | 20 | HDR biased | 3.2985 | 3.1982 | -0.1003 |
| 524 | 20 | HDR biased | 3.937 | 4.85 | 0.913 |
| 525 | 20 | HDR biased | 4.6498 | 3.4704 | -1.1794 |
| 531 | 30 | HDR biased | 2.329 | 4.2922 | 1.9632 |
| 532 | 30 | HDR biased | 3.2218 | 3.4957 | 0.2739 |
| 533 | 30 | HDR biased | 4.1359 | 4.5357 | 0.3998 |
| 534 | 30 | HDR biased | 3.9122 | 2.7562 | -1.156 |
| 535 | 30 | HDR biased | 4.3294 | 2.3715 | -1.9579 |
| 551 | 50 | HDR biased | 3.9098 | 4.2721 | 0.3623 |
| 552 | 50 | HDR biased | 2.5765 | 3.7408 | 1.1643 |
| 553 | 50 | HDR biased | 4.3737 | 3.3219 | -1.0518 |
| 554 | 50 | HDR biased | 3.202 | 4.347 | 1.145 |
| 555 | 50 | HDR biased | 3.013 | 2.7812 | -0.2318 |

TID vs Post - Pre Exposure Delta

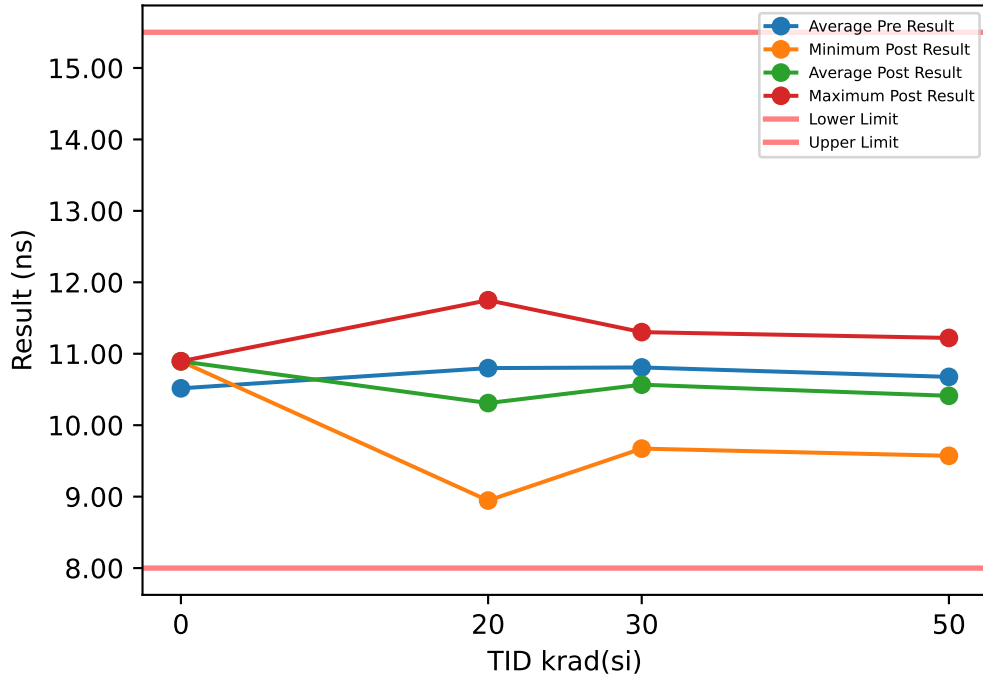


Test Statistics (ns)

| 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 | 3.1443 | 3.1443 | 3.1443 | | 3.1858 | 3.1858 | 3.1858 | | 0.0415 | 0.0415 | 0.0415 | |
| 20 | 1.8155 | 3.6052 | 4.6498 | 0.81445 | 1.5665 | 3.3118 | 4.85 | 0.87535 | -1.2006 | -0.2934 | 0.913 | 0.76143 |
| 30 | 1.9327 | 3.4754 | 4.3294 | 0.81357 | 2.3715 | 3.5978 | 4.5357 | 0.71691 | -1.9579 | 0.12244 | 1.9632 | 1.1203 |
| 50 | 2.5765 | 3.4533 | 4.3737 | 0.53118 | 2.7466 | 3.6189 | 4.7124 | 0.69138 | -1.0518 | 0.16558 | 1.1643 | 0.88101 |

Device Test: 95.11 T_RLH_SMALL(_DLH Dead Time Small 2MHz VIN_10V)

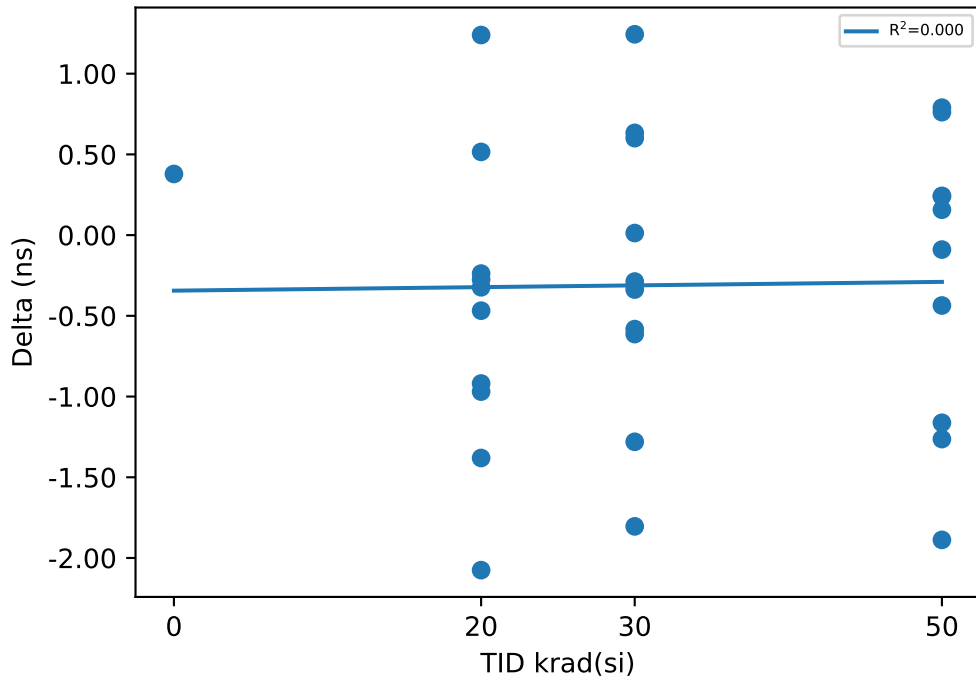
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.516 | 10.895 | 0.3788 |
| 321 | 20 | HDR unbiased | 11.541 | 10.16 | -1.3806 |
| 322 | 20 | HDR unbiased | 10.746 | 9.827 | -0.9193 |
| 323 | 20 | HDR unbiased | 9.2686 | 8.9454 | -0.3232 |
| 324 | 20 | HDR unbiased | 10.919 | 10.681 | -0.2383 |
| 325 | 20 | HDR unbiased | 9.8582 | 10.374 | 0.5154 |
| 331 | 30 | HDR unbiased | 10.364 | 10.998 | 0.6333 |
| 332 | 30 | HDR unbiased | 9.8635 | 10.464 | 0.6006 |
| 333 | 30 | HDR unbiased | 11.036 | 10.423 | -0.6131 |
| 334 | 30 | HDR unbiased | 11.197 | 10.615 | -0.5822 |
| 335 | 30 | HDR unbiased | 10.897 | 10.609 | -0.2876 |
| 351 | 50 | HDR unbiased | 10.356 | 10.513 | 0.1573 |
| 352 | 50 | HDR unbiased | 11.021 | 9.8586 | -1.1624 |
| 353 | 50 | HDR unbiased | 10.981 | 11.222 | 0.2403 |
| 354 | 50 | HDR unbiased | 10.103 | 10.346 | 0.2429 |
| 355 | 50 | HDR unbiased | 10.949 | 9.6853 | -1.2634 |
| 521 | 20 | HDR biased | 11.214 | 10.245 | -0.9693 |
| 522 | 20 | HDR biased | 11.268 | 10.8 | -0.468 |
| 523 | 20 | HDR biased | 10.561 | 10.286 | -0.2752 |
| 524 | 20 | HDR biased | 10.51 | 11.749 | 1.2395 |
| 525 | 20 | HDR biased | 12.106 | 10.031 | -2.0753 |
| 531 | 30 | HDR biased | 9.9084 | 11.152 | 1.2439 |
| 532 | 30 | HDR biased | 10.567 | 10.23 | -0.3372 |
| 533 | 30 | HDR biased | 11.29 | 11.303 | 0.0128 |
| 534 | 30 | HDR biased | 11.484 | 10.203 | -1.2804 |
| 535 | 30 | HDR biased | 11.477 | 9.6726 | -1.8042 |
| 551 | 50 | HDR biased | 11.084 | 10.994 | -0.0896 |
| 552 | 50 | HDR biased | 10.146 | 10.935 | 0.7895 |
| 553 | 50 | HDR biased | 11.459 | 9.5714 | -1.8879 |
| 554 | 50 | HDR biased | 10.313 | 11.075 | 0.7615 |
| 555 | 50 | HDR biased | 10.35 | 9.9142 | -0.436 |

TID vs Post - Pre Exposure Delta

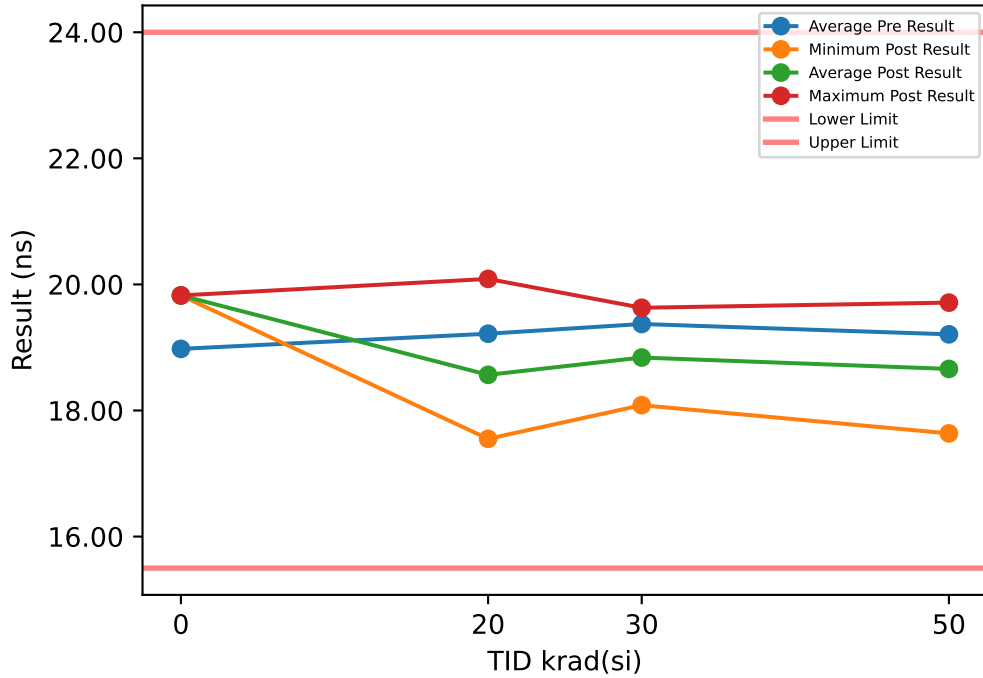


Test Statistics (ns)

| 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 | 10.516 | 10.516 | 10.516 | | 10.895 | 10.895 | 10.895 | | 0.3788 | 0.3788 | 0.3788 | |
| 20 | 9.2686 | 10.799 | 12.106 | 0.81893 | 8.9454 | 10.31 | 11.749 | 0.71909 | -2.0753 | -0.48943 | 1.2395 | 0.93453 |
| 30 | 9.8635 | 10.808 | 11.484 | 0.60589 | 9.6726 | 10.567 | 11.303 | 0.48884 | -1.8042 | -0.24141 | 1.2439 | 0.91483 |
| 50 | 10.103 | 10.676 | 11.459 | 0.47332 | 9.5714 | 10.411 | 11.222 | 0.62456 | -1.8879 | -0.26478 | 0.7895 | 0.9039 |

Device Test: 95.12 T_RLH_MID(_DLH Dead Time Mid 2MHz VIN_10V)

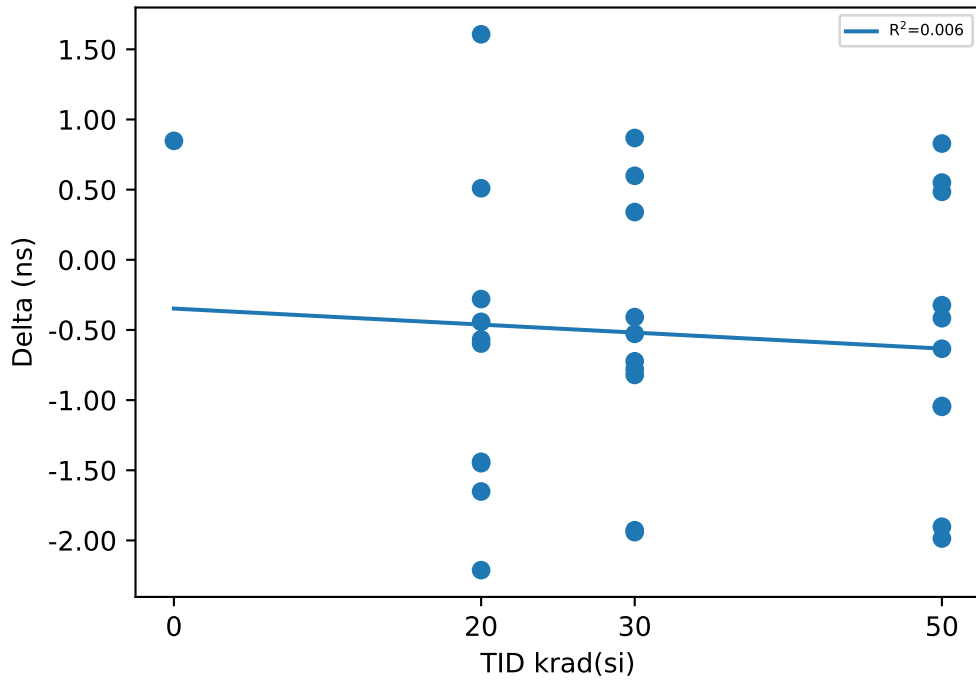
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 18.977 | 19.825 | 0.8477 |
| 321 | 20 | HDR unbiased | 19.837 | 18.387 | -1.4496 |
| 322 | 20 | HDR unbiased | 19.443 | 17.792 | -1.6512 |
| 323 | 20 | HDR unbiased | 18.147 | 17.55 | -0.5969 |
| 324 | 20 | HDR unbiased | 19.578 | 19.136 | -0.4421 |
| 325 | 20 | HDR unbiased | 18.08 | 18.59 | 0.5098 |
| 331 | 30 | HDR unbiased | 18.552 | 19.151 | 0.5986 |
| 332 | 30 | HDR unbiased | 18.924 | 19.265 | 0.3402 |
| 333 | 30 | HDR unbiased | 19.194 | 18.667 | -0.5275 |
| 334 | 30 | HDR unbiased | 19.682 | 18.903 | -0.7791 |
| 335 | 30 | HDR unbiased | 19.596 | 18.873 | -0.7233 |
| 351 | 50 | HDR unbiased | 18.301 | 19.13 | 0.8285 |
| 352 | 50 | HDR unbiased | 19.539 | 17.636 | -1.9023 |
| 353 | 50 | HDR unbiased | 20.074 | 19.026 | -1.0479 |
| 354 | 50 | HDR unbiased | 18.649 | 18.233 | -0.4164 |
| 355 | 50 | HDR unbiased | 19.223 | 18.18 | -1.0421 |
| 521 | 20 | HDR biased | 19.514 | 18.074 | -1.4395 |
| 522 | 20 | HDR biased | 19.89 | 19.322 | -0.5677 |
| 523 | 20 | HDR biased | 18.861 | 18.581 | -0.2797 |
| 524 | 20 | HDR biased | 18.48 | 20.087 | 1.607 |
| 525 | 20 | HDR biased | 20.348 | 18.136 | -2.2117 |
| 531 | 30 | HDR biased | 18.502 | 19.37 | 0.8682 |
| 532 | 30 | HDR biased | 19.097 | 18.277 | -0.8206 |
| 533 | 30 | HDR biased | 20.038 | 19.63 | -0.4084 |
| 534 | 30 | HDR biased | 20.122 | 18.181 | -1.9409 |
| 535 | 30 | HDR biased | 20.011 | 18.084 | -1.9271 |
| 551 | 50 | HDR biased | 19.538 | 19.214 | -0.3235 |
| 552 | 50 | HDR biased | 19.227 | 19.711 | 0.4845 |
| 553 | 50 | HDR biased | 19.739 | 17.752 | -1.9864 |
| 554 | 50 | HDR biased | 18.761 | 19.312 | 0.5503 |
| 555 | 50 | HDR biased | 19.032 | 18.398 | -0.6338 |

TID vs Post - Pre Exposure Delta

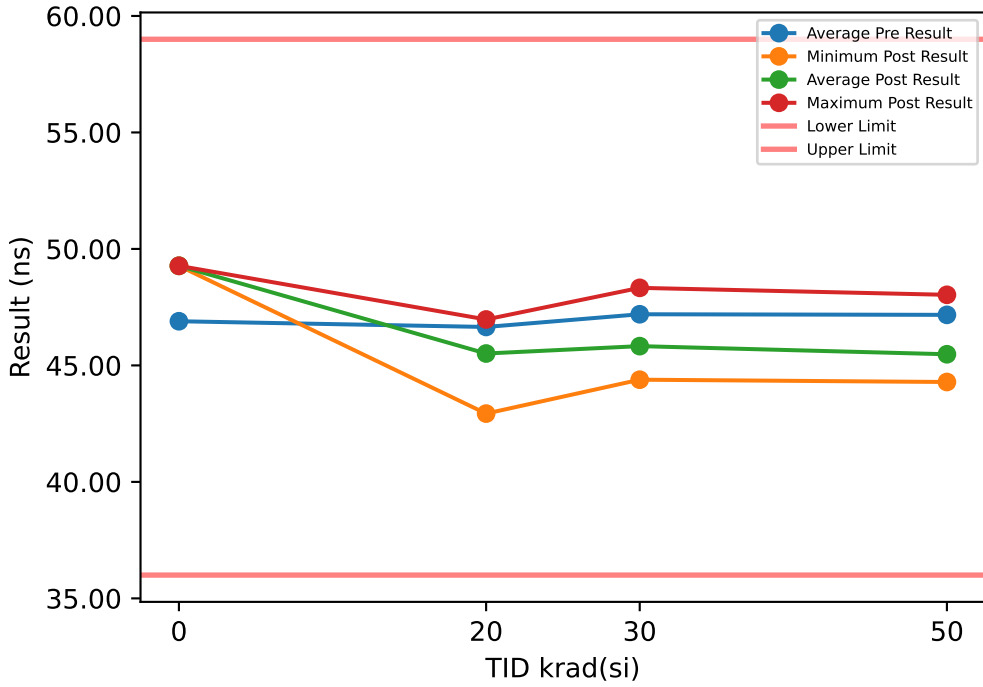


Test Statistics (ns)

| 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 | 18.977 | 18.977 | 18.977 | | 19.825 | 19.825 | 19.825 | | 0.8477 | 0.8477 | 0.8477 | |
| 20 | 18.08 | 19.218 | 20.348 | 0.78123 | 17.55 | 18.566 | 20.087 | 0.76747 | -2.2117 | -0.65216 | 1.607 | 1.1222 |
| 30 | 18.502 | 19.372 | 20.122 | 0.60524 | 18.084 | 18.84 | 19.63 | 0.5312 | -1.9409 | -0.53199 | 0.8682 | 0.95027 |
| 50 | 18.301 | 19.208 | 20.074 | 0.53894 | 17.636 | 18.659 | 19.711 | 0.71056 | -1.9864 | -0.54891 | 0.8285 | 0.97976 |

Device Test: 95.13 T_RLH_LARGE(_DLH Dead Time Large 2MHz VIN_10V)

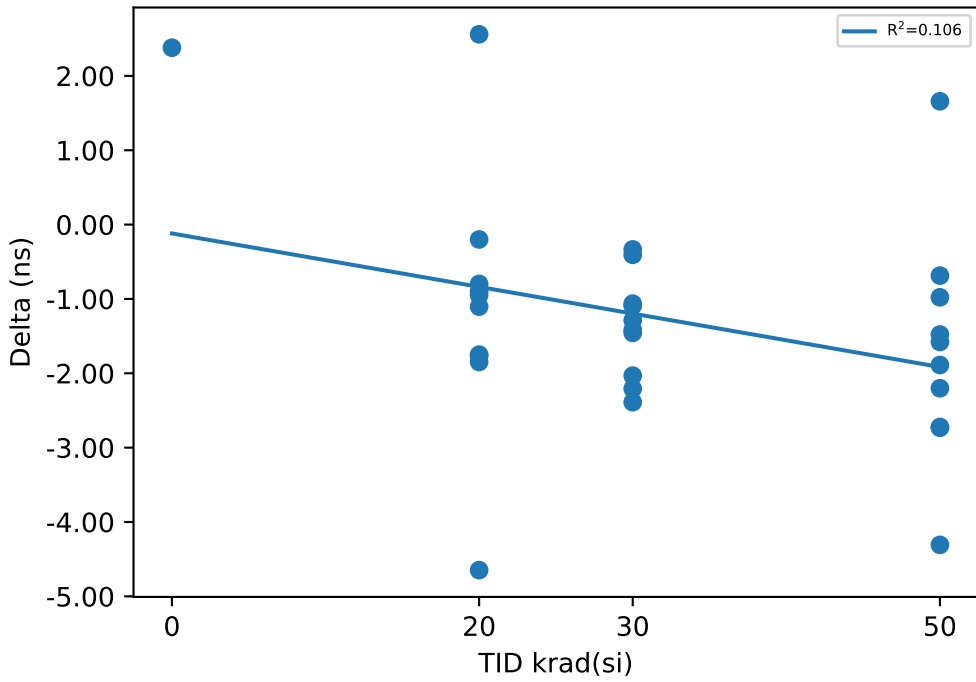
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 46.896 | 49.275 | 2.3789 |
| 321 | 20 | HDR unbiased | 46.793 | 45.043 | -1.7496 |
| 322 | 20 | HDR unbiased | 47.043 | 45.278 | -1.765 |
| 323 | 20 | HDR unbiased | 46.968 | 46.02 | -0.9482 |
| 324 | 20 | HDR unbiased | 47.204 | 46.307 | -0.8971 |
| 325 | 20 | HDR unbiased | 45.597 | 45.397 | -0.1999 |
| 331 | 30 | HDR unbiased | 45.953 | 45.546 | -0.4066 |
| 332 | 30 | HDR unbiased | 48.663 | 48.329 | -0.3341 |
| 333 | 30 | HDR unbiased | 45.673 | 44.387 | -1.2865 |
| 334 | 30 | HDR unbiased | 46.808 | 45.352 | -1.4566 |
| 335 | 30 | HDR unbiased | 47.178 | 45.762 | -1.4165 |
| 351 | 50 | HDR unbiased | 45.332 | 46.99 | 1.6582 |
| 352 | 50 | HDR unbiased | 47.555 | 44.833 | -2.722 |
| 353 | 50 | HDR unbiased | 48.907 | 44.6 | -4.3076 |
| 354 | 50 | HDR unbiased | 46.45 | 44.561 | -1.889 |
| 355 | 50 | HDR unbiased | 46.553 | 44.352 | -2.201 |
| 521 | 20 | HDR biased | 46.91 | 45.062 | -1.8481 |
| 522 | 20 | HDR biased | 47.77 | 46.972 | -0.7978 |
| 523 | 20 | HDR biased | 46.484 | 45.381 | -1.1034 |
| 524 | 20 | HDR biased | 44.159 | 46.718 | 2.5591 |
| 525 | 20 | HDR biased | 47.58 | 42.932 | -4.6475 |
| 531 | 30 | HDR biased | 46.928 | 45.837 | -1.091 |
| 532 | 30 | HDR biased | 46.682 | 44.651 | -2.0313 |
| 533 | 30 | HDR biased | 48.807 | 46.6 | -2.2073 |
| 534 | 30 | HDR biased | 48.019 | 45.63 | -2.3888 |
| 535 | 30 | HDR biased | 47.246 | 46.183 | -1.0633 |
| 551 | 50 | HDR biased | 47.157 | 45.679 | -1.4783 |
| 552 | 50 | HDR biased | 49.009 | 48.031 | -0.978 |
| 553 | 50 | HDR biased | 47.02 | 44.288 | -2.7321 |
| 554 | 50 | HDR biased | 46.364 | 45.678 | -0.6864 |
| 555 | 50 | HDR biased | 47.356 | 45.778 | -1.5786 |

TID vs Post - Pre Exposure Delta

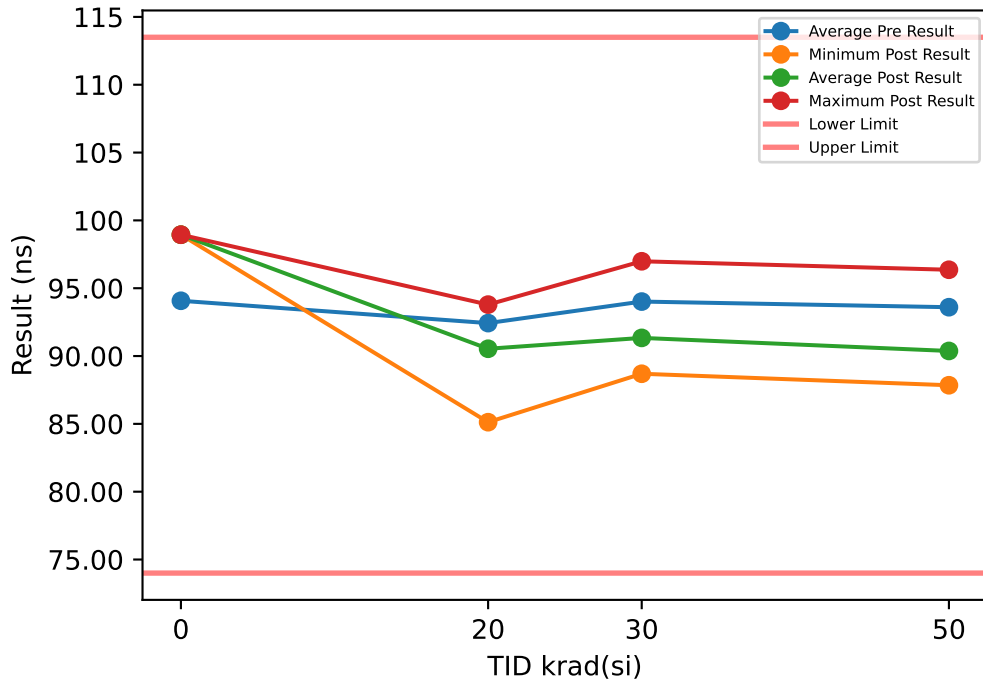


Test Statistics (ns)

| 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 | 46.896 | 46.896 | 46.896 | | 49.275 | 49.275 | 49.275 | | 2.3789 | 2.3789 | 2.3789 | |
| 20 | 44.159 | 46.651 | 47.77 | 1.0599 | 42.932 | 45.511 | 46.972 | 1.1372 | -4.6475 | -1.1398 | 2.5591 | 1.7747 |
| 30 | 45.673 | 47.196 | 48.807 | 1.0424 | 44.387 | 45.828 | 48.329 | 1.095 | -2.3888 | -1.3682 | -0.3341 | 0.69651 |
| 50 | 45.332 | 47.17 | 49.009 | 1.1319 | 44.288 | 45.479 | 48.031 | 1.2331 | -4.3076 | -1.6915 | 1.6582 | 1.5665 |

Device Test: 95.14 T_RLH_MAX(_DLH Dead Time Max 2MHz VIN_10V)

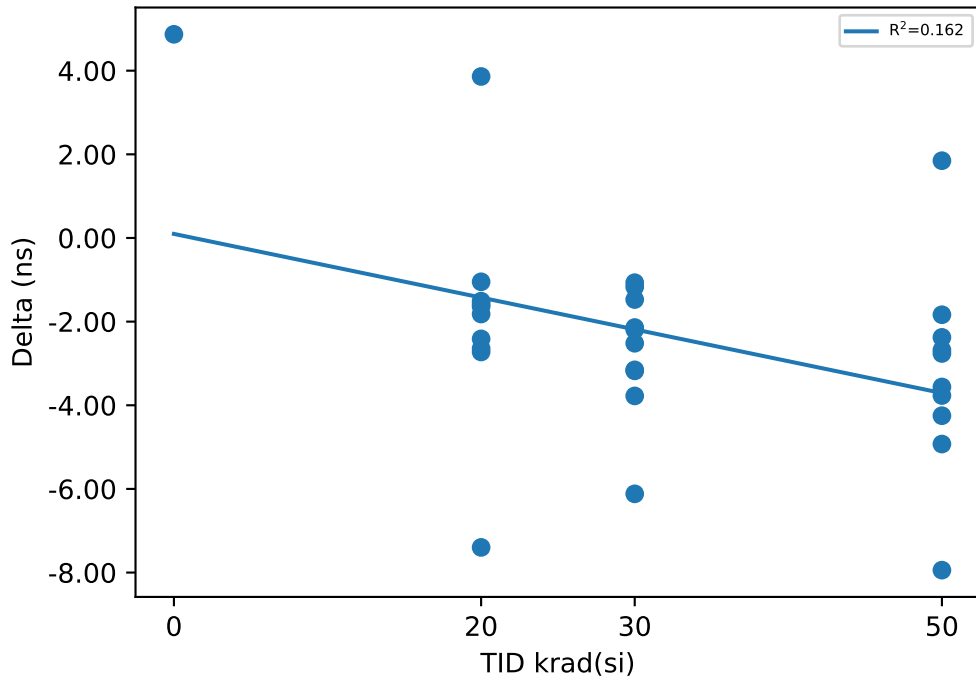
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 94.074 | 98.944 | 4.8697 |
| 321 | 20 | HDR unbiased | 91.501 | 88.859 | -2.6419 |
| 322 | 20 | HDR unbiased | 93.36 | 90.947 | -2.4127 |
| 323 | 20 | HDR unbiased | 95.43 | 93.792 | -1.6385 |
| 324 | 20 | HDR unbiased | 93.16 | 91.577 | -1.5825 |
| 325 | 20 | HDR unbiased | 91.411 | 90.363 | -1.048 |
| 331 | 30 | HDR unbiased | 91.23 | 90.161 | -1.0689 |
| 332 | 30 | HDR unbiased | 98.458 | 96.986 | -1.472 |
| 333 | 30 | HDR unbiased | 90.836 | 88.695 | -2.1411 |
| 334 | 30 | HDR unbiased | 92.266 | 90.075 | -2.1906 |
| 335 | 30 | HDR unbiased | 94.492 | 91.975 | -2.5172 |
| 351 | 50 | HDR unbiased | 90.535 | 92.383 | 1.8477 |
| 352 | 50 | HDR unbiased | 93.466 | 89.216 | -4.2494 |
| 353 | 50 | HDR unbiased | 95.789 | 87.847 | -7.942 |
| 354 | 50 | HDR unbiased | 92.053 | 88.286 | -3.767 |
| 355 | 50 | HDR unbiased | 92.476 | 88.913 | -3.5623 |
| 521 | 20 | HDR biased | 92.407 | 89.682 | -2.7258 |
| 522 | 20 | HDR biased | 95.107 | 93.596 | -1.5105 |
| 523 | 20 | HDR biased | 91.955 | 90.137 | -1.8185 |
| 524 | 20 | HDR biased | 87.435 | 91.297 | 3.8614 |
| 525 | 20 | HDR biased | 92.522 | 85.123 | -7.3983 |
| 531 | 30 | HDR biased | 94.556 | 90.779 | -3.7767 |
| 532 | 30 | HDR biased | 92.701 | 89.524 | -3.1771 |
| 533 | 30 | HDR biased | 97.777 | 91.659 | -6.1178 |
| 534 | 30 | HDR biased | 94.61 | 91.457 | -3.1531 |
| 535 | 30 | HDR biased | 93.234 | 92.064 | -1.1698 |
| 551 | 50 | HDR biased | 93.283 | 90.522 | -2.7616 |
| 552 | 50 | HDR biased | 98.738 | 96.361 | -2.3766 |
| 553 | 50 | HDR biased | 93.107 | 88.18 | -4.9271 |
| 554 | 50 | HDR biased | 92.078 | 90.243 | -1.835 |
| 555 | 50 | HDR biased | 94.478 | 91.8 | -2.6783 |

TID vs Post - Pre Exposure Delta

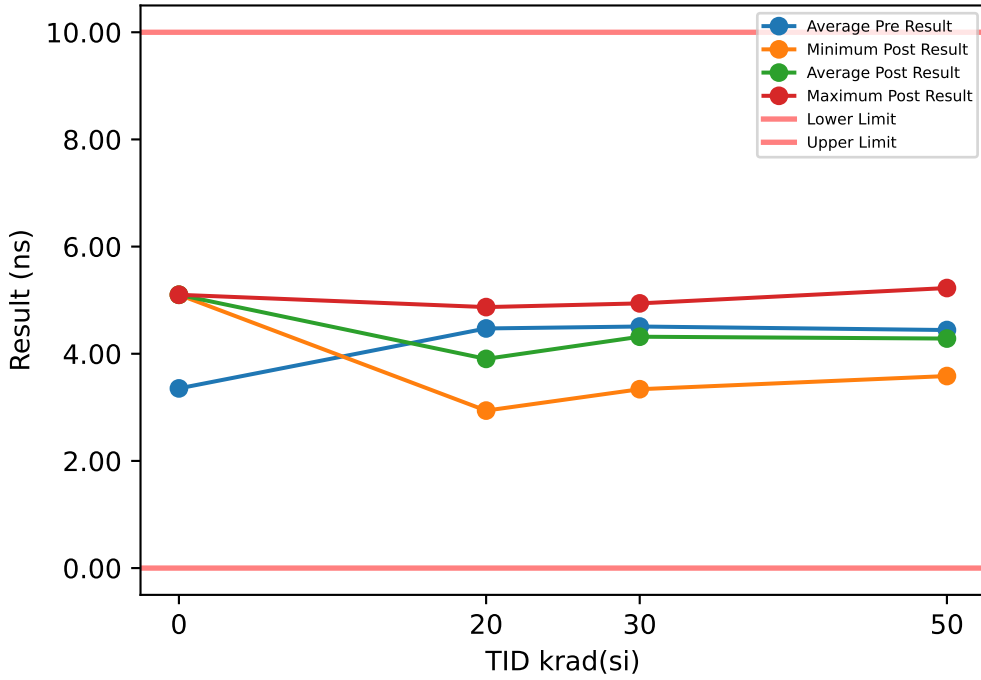


Test Statistics (ns)

| 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 | 94.074 | 94.074 | 94.074 | | 98.944 | 98.944 | 98.944 | | 4.8697 | 4.8697 | 4.8697 | |
| 20 | 87.435 | 92.429 | 95.43 | 2.2273 | 85.123 | 90.537 | 93.792 | 2.4682 | -7.3983 | -1.8915 | 3.8614 | 2.7075 |
| 30 | 90.836 | 94.016 | 98.458 | 2.5393 | 88.695 | 91.338 | 96.986 | 2.2735 | -6.1178 | -2.6784 | -1.0689 | 1.505 |
| 50 | 90.535 | 93.6 | 98.738 | 2.3018 | 87.847 | 90.375 | 96.361 | 2.6032 | -7.942 | -3.2252 | 1.8477 | 2.4833 |

Device Test: 95.19 T_RHL_MIN(_DHL Dead Time Min 500kHz VIN_10V)

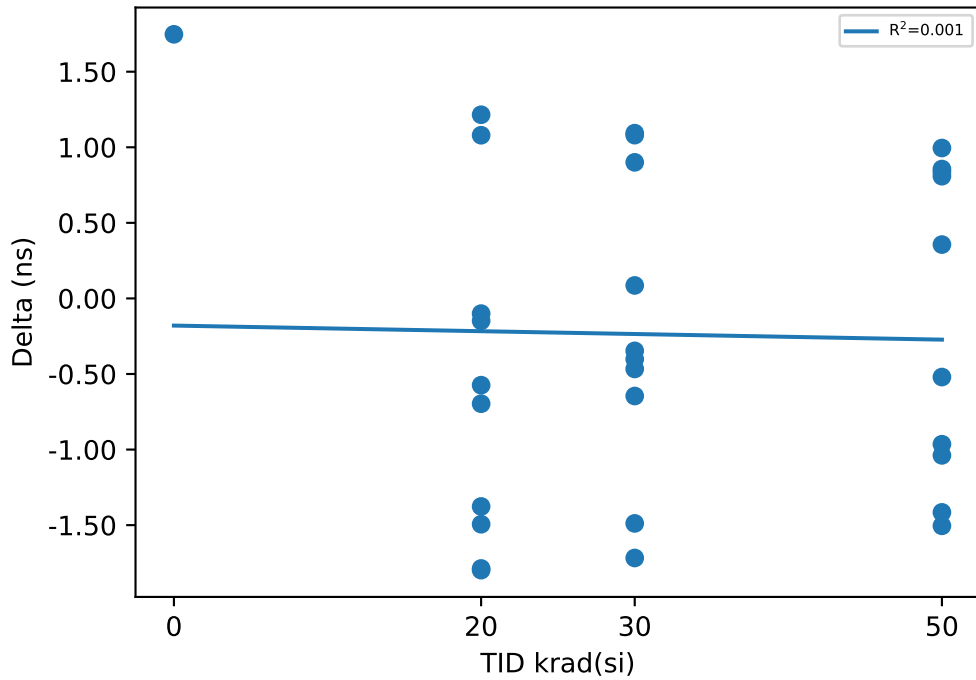
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.3533 | 5.1007 | 1.7474 |
| 321 | 20 | HDR unbiased | 5.3711 | 3.9946 | -1.3765 |
| 322 | 20 | HDR unbiased | 4.8972 | 3.4032 | -1.494 |
| 323 | 20 | HDR unbiased | 4.3112 | 4.163 | -0.1482 |
| 324 | 20 | HDR unbiased | 4.8281 | 4.1316 | -0.6965 |
| 325 | 20 | HDR unbiased | 2.9036 | 4.1189 | 1.2153 |
| 331 | 30 | HDR unbiased | 3.8808 | 4.7811 | 0.9003 |
| 332 | 30 | HDR unbiased | 3.8599 | 4.9401 | 1.0802 |
| 333 | 30 | HDR unbiased | 3.8897 | 3.9756 | 0.0859 |
| 334 | 30 | HDR unbiased | 5.3292 | 4.9275 | -0.4017 |
| 335 | 30 | HDR unbiased | 4.9614 | 4.6145 | -0.3469 |
| 351 | 50 | HDR unbiased | 3.6336 | 4.4896 | 0.856 |
| 352 | 50 | HDR unbiased | 5.1836 | 3.6791 | -1.5045 |
| 353 | 50 | HDR unbiased | 4.9135 | 4.3933 | -0.5202 |
| 354 | 50 | HDR unbiased | 3.7842 | 4.5928 | 0.8086 |
| 355 | 50 | HDR unbiased | 5.1415 | 4.1032 | -1.0383 |
| 521 | 20 | HDR biased | 5.1458 | 3.3481 | -1.7977 |
| 522 | 20 | HDR biased | 5.4447 | 4.8708 | -0.5739 |
| 523 | 20 | HDR biased | 4.0289 | 3.9284 | -0.1005 |
| 524 | 20 | HDR biased | 3.0652 | 4.1448 | 1.0796 |
| 525 | 20 | HDR biased | 4.7259 | 2.9392 | -1.7867 |
| 531 | 30 | HDR biased | 3.6757 | 4.7691 | 1.0934 |
| 532 | 30 | HDR biased | 4.0768 | 3.6102 | -0.4666 |
| 533 | 30 | HDR biased | 5.4778 | 4.8321 | -0.6457 |
| 534 | 30 | HDR biased | 4.8267 | 3.3382 | -1.4885 |
| 535 | 30 | HDR biased | 5.1072 | 3.3899 | -1.7173 |
| 551 | 50 | HDR biased | 5.779 | 4.8144 | -0.9646 |
| 552 | 50 | HDR biased | 4.2315 | 5.2266 | 0.9951 |
| 553 | 50 | HDR biased | 5.1764 | 3.7609 | -1.4155 |
| 554 | 50 | HDR biased | 3.3568 | 4.1925 | 0.8357 |
| 555 | 50 | HDR biased | 3.2277 | 3.584 | 0.3563 |

TID vs Post - Pre Exposure Delta

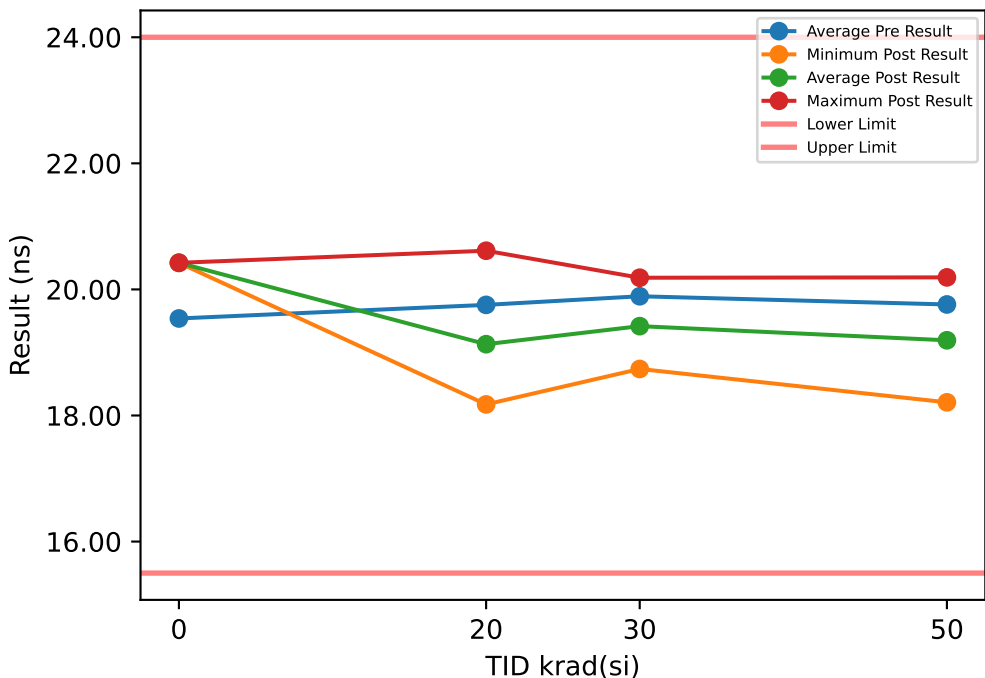


Test Statistics (ns)

| 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 | 3.3533 | 3.3533 | 3.3533 | | 5.1007 | 5.1007 | 5.1007 | | 1.7474 | 1.7474 | 1.7474 | |
| 20 | 2.9036 | 4.4722 | 5.4447 | 0.89702 | 2.9392 | 3.9043 | 4.8708 | 0.54337 | -1.7977 | -0.56791 | 1.2153 | 1.0962 |
| 30 | 3.6757 | 4.5085 | 5.4778 | 0.69566 | 3.3382 | 4.3178 | 4.9401 | 0.66402 | -1.7173 | -0.19069 | 1.0934 | 0.9943 |
| 50 | 3.2277 | 4.4428 | 5.779 | 0.905 | 3.584 | 4.2836 | 5.2266 | 0.52599 | -1.5045 | -0.15914 | 0.9951 | 1.0271 |

Device Test: 95.2 T_RLH_MID(_DLH Dead Time Mid 500kHz VIN_10V)

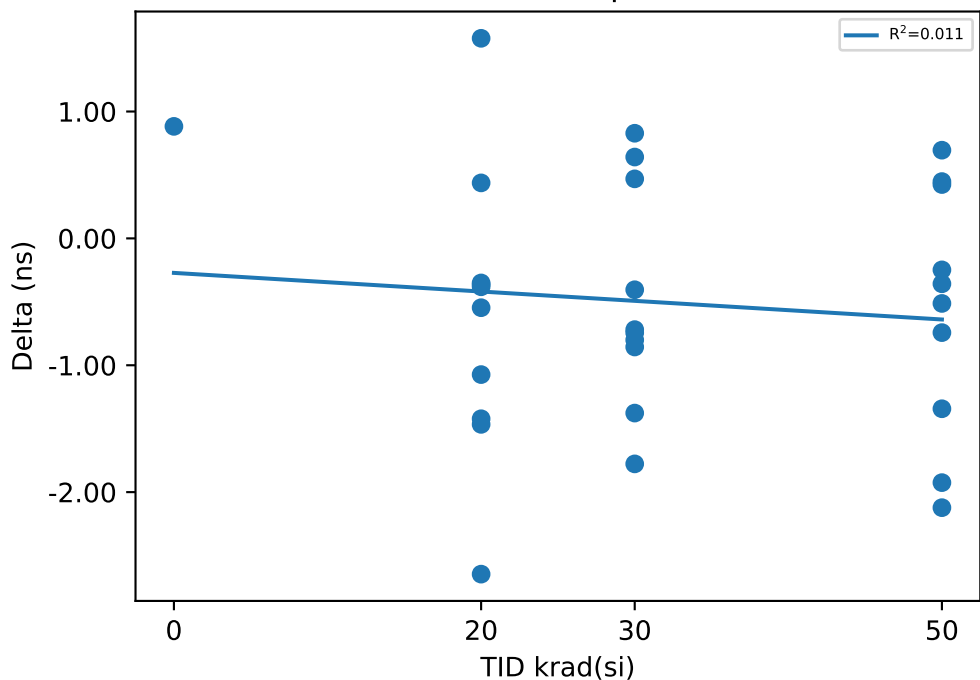
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.539 | 20.422 | 0.8829 |
| 321 | 20 | HDR unbiased | 20.405 | 18.939 | -1.4659 |
| 322 | 20 | HDR unbiased | 19.885 | 18.811 | -1.0735 |
| 323 | 20 | HDR unbiased | 18.722 | 18.176 | -0.5464 |
| 324 | 20 | HDR unbiased | 20.062 | 19.698 | -0.3641 |
| 325 | 20 | HDR unbiased | 18.778 | 19.215 | 0.4374 |
| 331 | 30 | HDR unbiased | 19.195 | 19.837 | 0.6412 |
| 332 | 30 | HDR unbiased | 19.476 | 19.945 | 0.4692 |
| 333 | 30 | HDR unbiased | 19.744 | 18.888 | -0.856 |
| 334 | 30 | HDR unbiased | 20.133 | 19.389 | -0.744 |
| 335 | 30 | HDR unbiased | 20.199 | 19.48 | -0.7191 |
| 351 | 50 | HDR unbiased | 19.01 | 19.705 | 0.6952 |
| 352 | 50 | HDR unbiased | 20.134 | 18.209 | -1.9251 |
| 353 | 50 | HDR unbiased | 20.464 | 19.722 | -0.7427 |
| 354 | 50 | HDR unbiased | 19.224 | 18.866 | -0.3579 |
| 355 | 50 | HDR unbiased | 19.682 | 18.339 | -1.3429 |
| 521 | 20 | HDR biased | 20.014 | 18.592 | -1.4217 |
| 522 | 20 | HDR biased | 20.248 | 19.897 | -0.3512 |
| 523 | 20 | HDR biased | 19.461 | 19.079 | -0.3815 |
| 524 | 20 | HDR biased | 19.037 | 20.614 | 1.577 |
| 525 | 20 | HDR biased | 20.935 | 18.289 | -2.6464 |
| 531 | 30 | HDR biased | 19.11 | 19.938 | 0.8287 |
| 532 | 30 | HDR biased | 19.539 | 18.738 | -0.8006 |
| 533 | 30 | HDR biased | 20.59 | 20.185 | -0.4048 |
| 534 | 30 | HDR biased | 20.534 | 18.756 | -1.7774 |
| 535 | 30 | HDR biased | 20.392 | 19.015 | -1.3769 |
| 551 | 50 | HDR biased | 20.042 | 19.794 | -0.2482 |
| 552 | 50 | HDR biased | 19.767 | 20.191 | 0.4245 |
| 553 | 50 | HDR biased | 20.34 | 18.217 | -2.1225 |
| 554 | 50 | HDR biased | 19.422 | 19.869 | 0.4478 |
| 555 | 50 | HDR biased | 19.529 | 19.016 | -0.5127 |

TID vs Post - Pre Exposure Delta

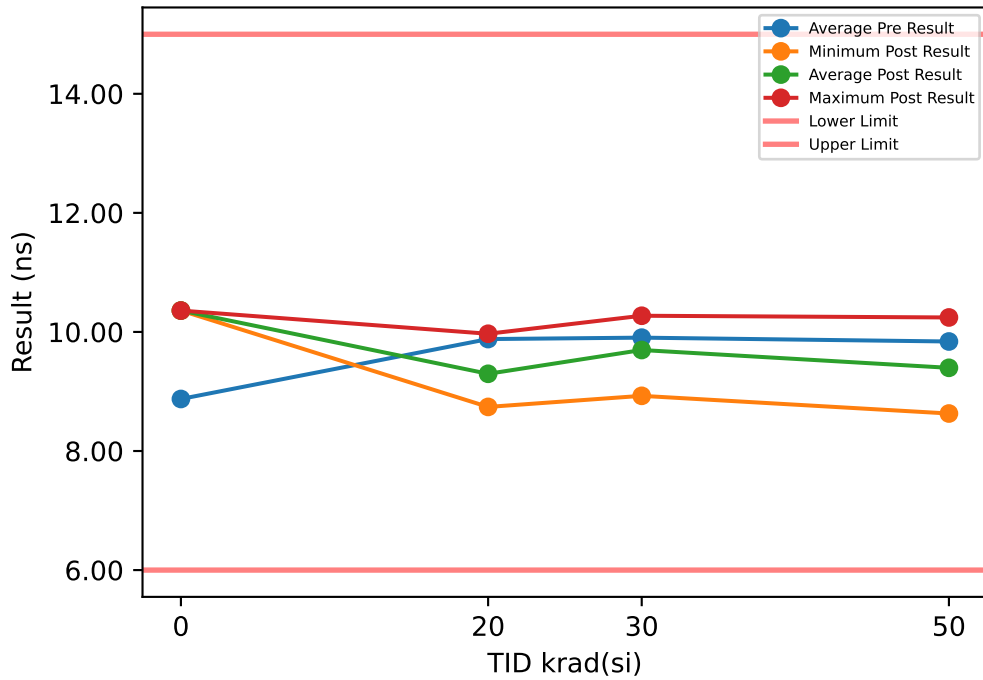


Test Statistics (ns)

| 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 | 19.539 | 19.539 | 19.539 | | 20.422 | 20.422 | 20.422 | | 0.8829 | 0.8829 | 0.8829 | |
| 20 | 18.722 | 19.755 | 20.935 | 0.73493 | 18.176 | 19.131 | 20.614 | 0.7578 | -2.6464 | -0.62363 | 1.577 | 1.1458 |
| 30 | 19.11 | 19.891 | 20.59 | 0.54965 | 18.738 | 19.417 | 20.185 | 0.54372 | -1.7774 | -0.47397 | 0.8287 | 0.86505 |
| 50 | 19.01 | 19.761 | 20.464 | 0.4803 | 18.209 | 19.193 | 20.191 | 0.75606 | -2.1225 | -0.56845 | 0.6952 | 0.98043 |

Device Test: 95.20 T_RHL_SMALL(_DHL Dead Time Small 500kHz VIN_10V)

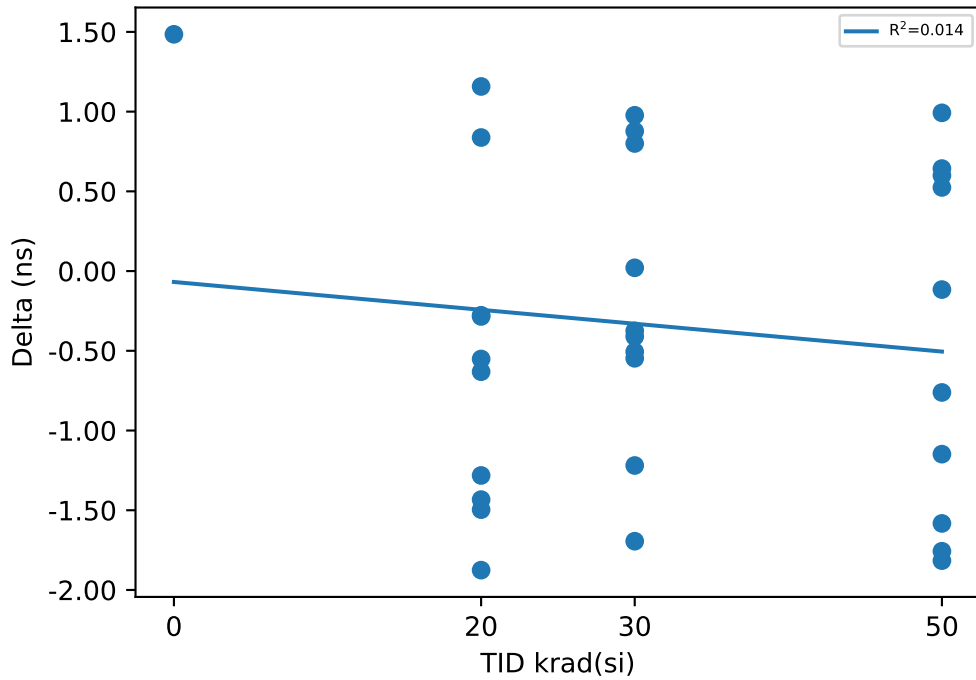
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.874 | 10.359 | 1.4849 |
| 321 | 20 | HDR unbiased | 10.848 | 8.972 | -1.8756 |
| 322 | 20 | HDR unbiased | 10.518 | 9.2361 | -1.2818 |
| 323 | 20 | HDR unbiased | 9.5869 | 9.3098 | -0.2771 |
| 324 | 20 | HDR unbiased | 10.188 | 9.6363 | -0.5513 |
| 325 | 20 | HDR unbiased | 8.4857 | 9.6435 | 1.1578 |
| 331 | 30 | HDR unbiased | 9.1824 | 9.9826 | 0.8002 |
| 332 | 30 | HDR unbiased | 9.2949 | 10.272 | 0.9771 |
| 333 | 30 | HDR unbiased | 9.2924 | 9.3129 | 0.0205 |
| 334 | 30 | HDR unbiased | 10.756 | 10.209 | -0.5471 |
| 335 | 30 | HDR unbiased | 10.423 | 10.048 | -0.3749 |
| 351 | 50 | HDR unbiased | 9.0204 | 9.6633 | 0.6429 |
| 352 | 50 | HDR unbiased | 10.652 | 8.895 | -1.7571 |
| 353 | 50 | HDR unbiased | 10.386 | 9.625 | -0.7612 |
| 354 | 50 | HDR unbiased | 8.9603 | 9.9527 | 0.9924 |
| 355 | 50 | HDR unbiased | 10.645 | 8.8285 | -1.816 |
| 521 | 20 | HDR biased | 10.465 | 8.9685 | -1.4962 |
| 522 | 20 | HDR biased | 10.601 | 9.9695 | -0.631 |
| 523 | 20 | HDR biased | 9.3766 | 9.092 | -0.2846 |
| 524 | 20 | HDR biased | 8.5628 | 9.4004 | 0.8376 |
| 525 | 20 | HDR biased | 10.174 | 8.7407 | -1.4333 |
| 531 | 30 | HDR biased | 9.1497 | 10.027 | 0.8776 |
| 532 | 30 | HDR biased | 9.3373 | 8.9268 | -0.4105 |
| 533 | 30 | HDR biased | 10.591 | 10.085 | -0.5061 |
| 534 | 30 | HDR biased | 10.304 | 9.0851 | -1.2193 |
| 535 | 30 | HDR biased | 10.711 | 9.0164 | -1.6942 |
| 551 | 50 | HDR biased | 11.002 | 9.8538 | -1.1482 |
| 552 | 50 | HDR biased | 9.644 | 10.243 | 0.5993 |
| 553 | 50 | HDR biased | 10.397 | 8.814 | -1.5826 |
| 554 | 50 | HDR biased | 8.9442 | 9.4687 | 0.5245 |
| 555 | 50 | HDR biased | 8.7459 | 8.6299 | -0.116 |

TID vs Post - Pre Exposure Delta

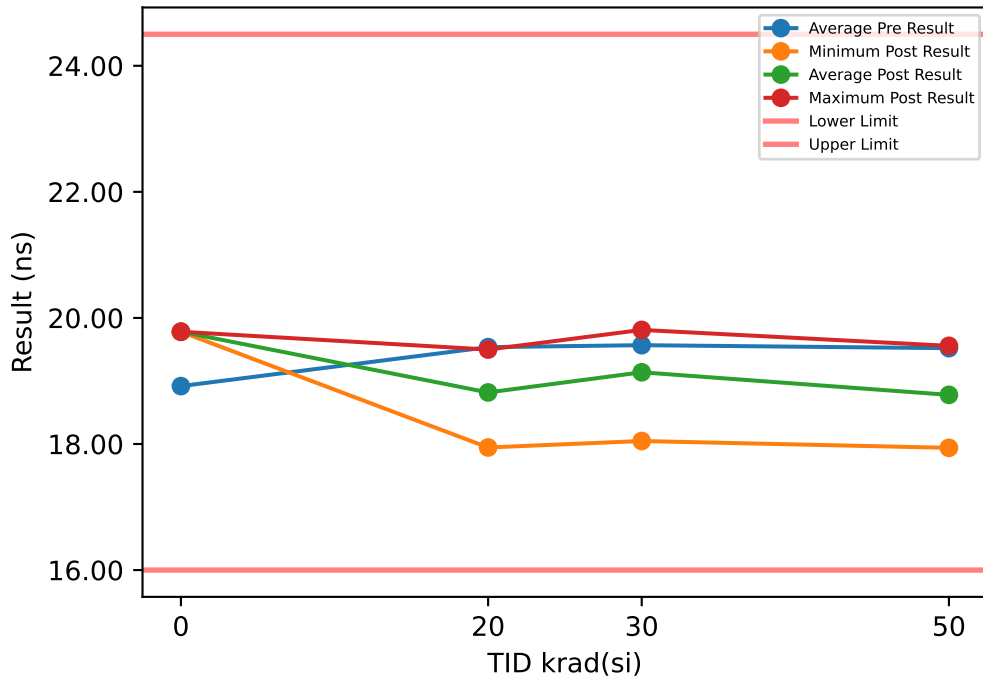


Test Statistics (ns)

| 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 | 8.874 | 8.874 | 8.874 | | 10.359 | 10.359 | 10.359 | | 1.4849 | 1.4849 | 1.4849 | |
| 20 | 8.4857 | 9.8804 | 10.848 | 0.84351 | 8.7407 | 9.2969 | 9.9695 | 0.37521 | -1.8756 | -0.58355 | 1.1578 | 0.99725 |
| 30 | 9.1497 | 9.9041 | 10.756 | 0.70185 | 8.9268 | 9.6965 | 10.272 | 0.54109 | -1.6942 | -0.20767 | 0.9771 | 0.89168 |
| 50 | 8.7459 | 9.8396 | 11.002 | 0.86594 | 8.6299 | 9.3974 | 10.243 | 0.56424 | -1.816 | -0.4422 | 0.9924 | 1.0994 |

Device Test: 95.21 T_RHL_MID(_DHL Dead Time Mid 500kHz VIN_10V)

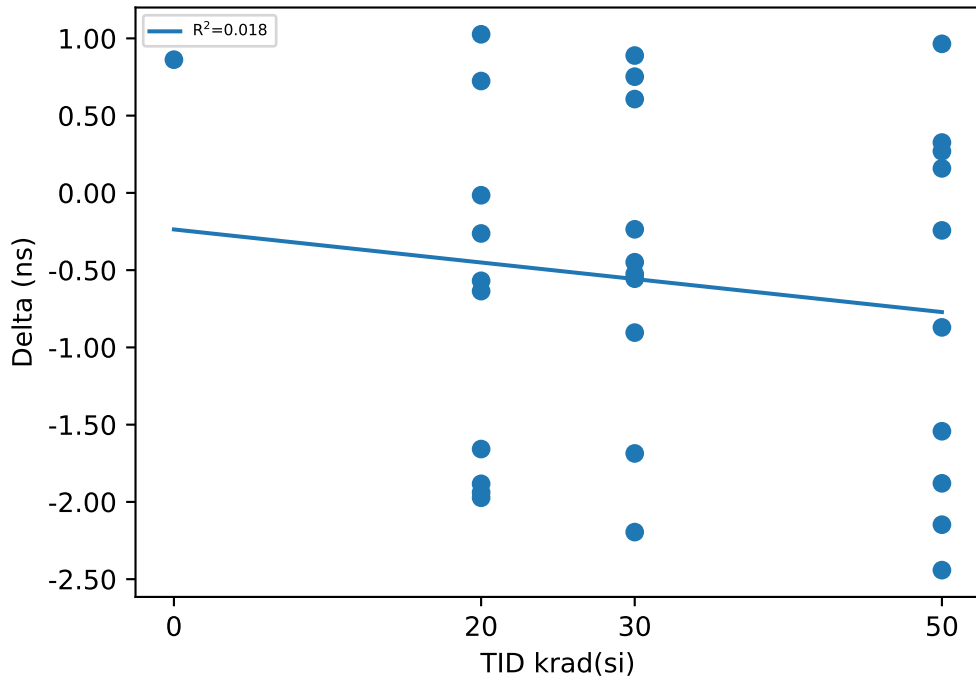
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 18.919 | 19.781 | 0.8621 |
| 321 | 20 | HDR unbiased | 20.601 | 18.662 | -1.9382 |
| 322 | 20 | HDR unbiased | 20.471 | 18.498 | -1.973 |
| 323 | 20 | HDR unbiased | 19.131 | 19.115 | -0.0153 |
| 324 | 20 | HDR unbiased | 20.069 | 19.434 | -0.6357 |
| 325 | 20 | HDR unbiased | 18.472 | 19.498 | 1.0263 |
| 331 | 30 | HDR unbiased | 18.828 | 19.435 | 0.6071 |
| 332 | 30 | HDR unbiased | 19.058 | 19.81 | 0.7521 |
| 333 | 30 | HDR unbiased | 19.114 | 18.878 | -0.2357 |
| 334 | 30 | HDR unbiased | 20.509 | 19.605 | -0.9043 |
| 335 | 30 | HDR unbiased | 20.229 | 19.674 | -0.5554 |
| 351 | 50 | HDR unbiased | 18.827 | 19.096 | 0.2696 |
| 352 | 50 | HDR unbiased | 20.702 | 18.555 | -2.1474 |
| 353 | 50 | HDR unbiased | 20.025 | 19.155 | -0.8704 |
| 354 | 50 | HDR unbiased | 18.593 | 19.557 | 0.9647 |
| 355 | 50 | HDR unbiased | 20.524 | 18.083 | -2.4415 |
| 521 | 20 | HDR biased | 19.997 | 18.114 | -1.8828 |
| 522 | 20 | HDR biased | 19.797 | 19.228 | -0.5691 |
| 523 | 20 | HDR biased | 18.976 | 18.713 | -0.2626 |
| 524 | 20 | HDR biased | 18.249 | 18.973 | 0.724 |
| 525 | 20 | HDR biased | 19.603 | 17.945 | -1.6578 |
| 531 | 30 | HDR biased | 18.655 | 19.544 | 0.8889 |
| 532 | 30 | HDR biased | 19.181 | 18.656 | -0.5248 |
| 533 | 30 | HDR biased | 20.006 | 19.557 | -0.4487 |
| 534 | 30 | HDR biased | 19.858 | 18.171 | -1.6863 |
| 535 | 30 | HDR biased | 20.243 | 18.047 | -2.1953 |
| 551 | 50 | HDR biased | 20.48 | 18.937 | -1.5426 |
| 552 | 50 | HDR biased | 19.131 | 19.457 | 0.3259 |
| 553 | 50 | HDR biased | 19.819 | 17.939 | -1.8796 |
| 554 | 50 | HDR biased | 18.665 | 18.823 | 0.1586 |
| 555 | 50 | HDR biased | 18.437 | 18.194 | -0.2427 |

TID vs Post - Pre Exposure Delta

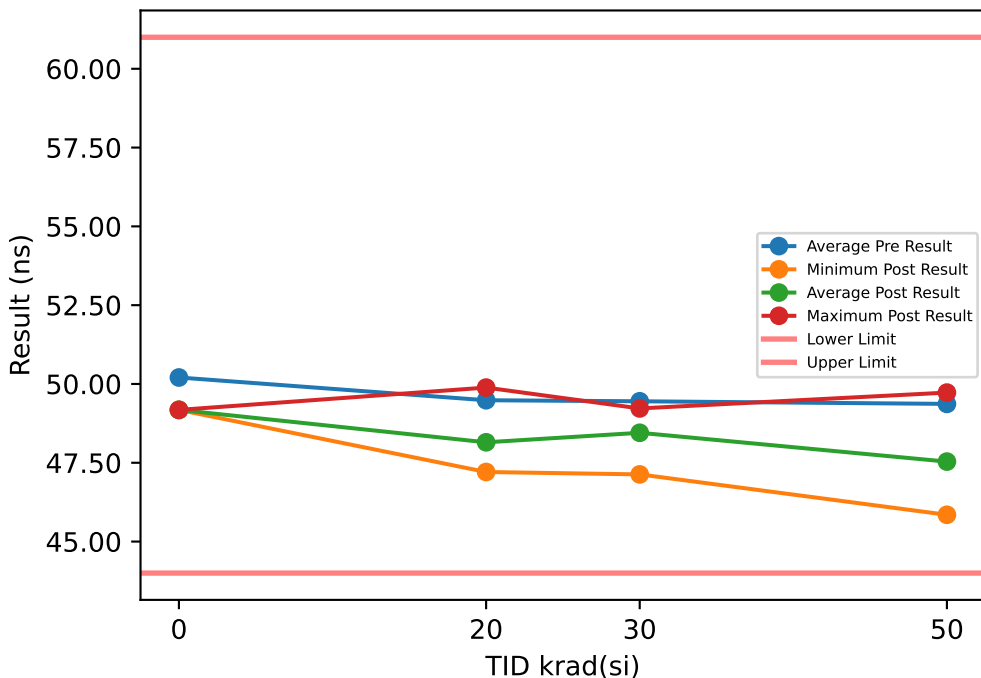


Test Statistics (ns)

| 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 | 18.919 | 18.919 | 18.919 | | 19.781 | 19.781 | 19.781 | | 0.8621 | 0.8621 | 0.8621 | |
| 20 | 18.249 | 19.536 | 20.601 | 0.80583 | 17.945 | 18.818 | 19.498 | 0.52884 | -1.973 | -0.71842 | 1.0263 | 1.1134 |
| 30 | 18.655 | 19.568 | 20.509 | 0.67098 | 18.047 | 19.138 | 19.81 | 0.65049 | -2.1953 | -0.43024 | 0.8889 | 1.0108 |
| 50 | 18.437 | 19.52 | 20.702 | 0.88629 | 17.939 | 18.78 | 19.557 | 0.56921 | -2.4415 | -0.74054 | 0.9647 | 1.1996 |

Device Test: 95.22 T_RHL_LARGE(_DHL Dead Time Large 500kHz VIN_10V)

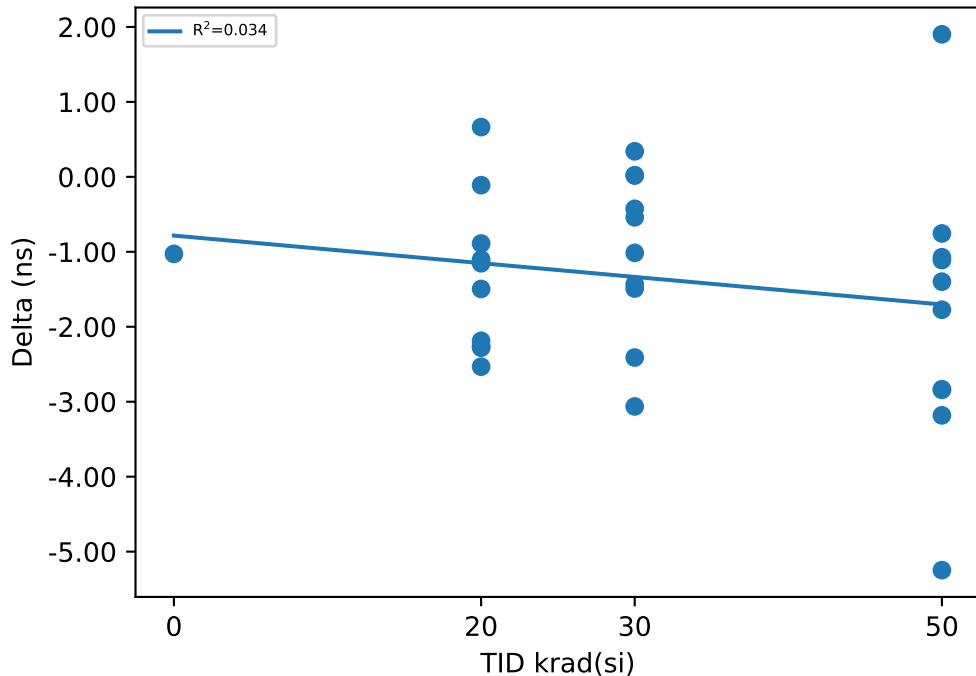
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 50.206 | 49.178 | -1.0279 |
| 321 | 20 | HDR unbiased | 50.562 | 48.283 | -2.279 |
| 322 | 20 | HDR unbiased | 50.837 | 48.304 | -2.5325 |
| 323 | 20 | HDR unbiased | 48.414 | 47.525 | -0.8891 |
| 324 | 20 | HDR unbiased | 50.554 | 49.401 | -1.1531 |
| 325 | 20 | HDR unbiased | 49.222 | 49.885 | 0.6637 |
| 331 | 30 | HDR unbiased | 48.394 | 48.413 | 0.0198 |
| 332 | 30 | HDR unbiased | 48.933 | 48.953 | 0.0202 |
| 333 | 30 | HDR unbiased | 49.268 | 48.254 | -1.0143 |
| 334 | 30 | HDR unbiased | 50.352 | 48.919 | -1.4322 |
| 335 | 30 | HDR unbiased | 50.714 | 49.224 | -1.4903 |
| 351 | 50 | HDR unbiased | 49.215 | 48.104 | -1.1106 |
| 352 | 50 | HDR unbiased | 51.282 | 48.1 | -3.1819 |
| 353 | 50 | HDR unbiased | 50.064 | 48.291 | -1.7727 |
| 354 | 50 | HDR unbiased | 47.825 | 49.727 | 1.9017 |
| 355 | 50 | HDR unbiased | 51.677 | 46.43 | -5.2468 |
| 521 | 20 | HDR biased | 49.464 | 47.208 | -2.2567 |
| 522 | 20 | HDR biased | 48.82 | 47.325 | -1.4956 |
| 523 | 20 | HDR biased | 48.356 | 47.253 | -1.1023 |
| 524 | 20 | HDR biased | 48.629 | 48.518 | -0.1109 |
| 525 | 20 | HDR biased | 49.981 | 47.794 | -2.1872 |
| 531 | 30 | HDR biased | 48.204 | 48.545 | 0.3409 |
| 532 | 30 | HDR biased | 49.058 | 48.632 | -0.4263 |
| 533 | 30 | HDR biased | 49.515 | 48.975 | -0.5401 |
| 534 | 30 | HDR biased | 49.876 | 47.465 | -2.4104 |
| 535 | 30 | HDR biased | 50.194 | 47.131 | -3.063 |
| 551 | 50 | HDR biased | 49.434 | 46.6 | -2.8335 |
| 552 | 50 | HDR biased | 48.193 | 47.438 | -0.7549 |
| 553 | 50 | HDR biased | 48.691 | 45.849 | -2.8419 |
| 554 | 50 | HDR biased | 48.815 | 47.743 | -1.072 |
| 555 | 50 | HDR biased | 48.484 | 47.086 | -1.3984 |

TID vs Post - Pre Exposure Delta

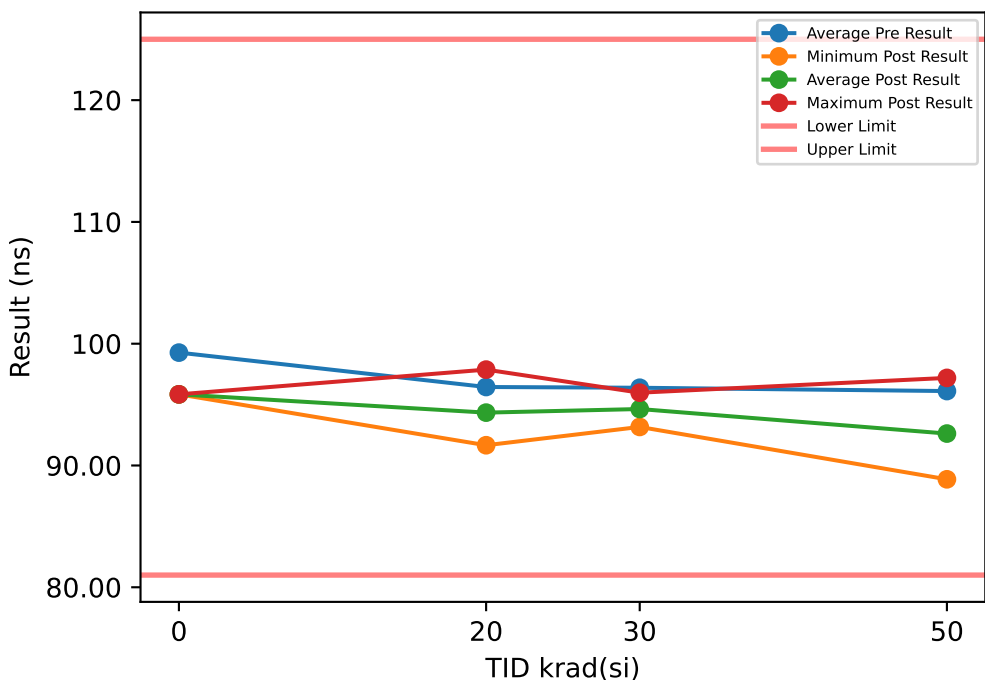


Test Statistics (ns)

| 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 | 50.206 | 50.206 | 50.206 | | 49.178 | 49.178 | 49.178 | | -1.0279 | -1.0279 | -1.0279 | |
| 20 | 48.356 | 49.484 | 50.837 | 0.94528 | 47.208 | 48.149 | 49.885 | 0.92161 | -2.5325 | -1.3343 | 0.6637 | 1.0385 |
| 30 | 48.204 | 49.451 | 50.714 | 0.83484 | 47.131 | 48.451 | 49.224 | 0.67819 | -3.063 | -0.99957 | 0.3409 | 1.1102 |
| 50 | 47.825 | 49.368 | 51.677 | 1.2829 | 45.849 | 47.537 | 49.727 | 1.1159 | -5.2468 | -1.8311 | 1.9017 | 1.8826 |

Device Test: 95.23 T_RHL_MAX(_DHL Dead Time Max 500kHz VIN_10V)

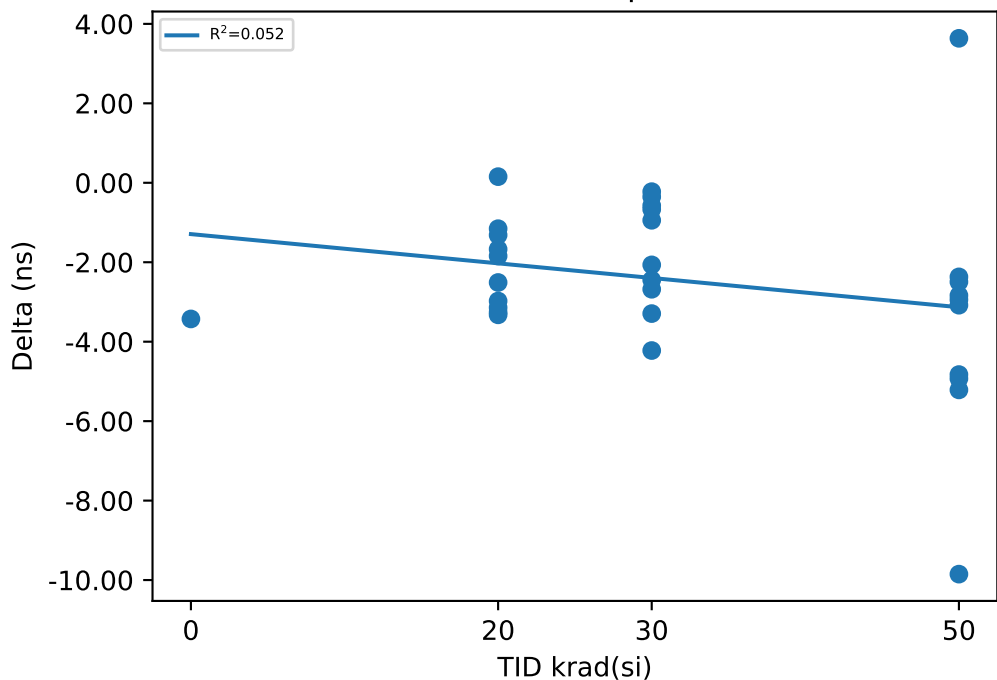
TID vs Result Stats



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 99.269 | 95.842 | -3.4273 |
| 321 | 20 | HDR unbiased | 97.605 | 94.463 | -3.1423 |
| 322 | 20 | HDR unbiased | 98.72 | 95.396 | -3.3239 |
| 323 | 20 | HDR unbiased | 94.243 | 92.927 | -1.3164 |
| 324 | 20 | HDR unbiased | 98.259 | 96.586 | -1.6725 |
| 325 | 20 | HDR unbiased | 97.718 | 97.873 | 0.1545 |
| 331 | 30 | HDR unbiased | 94.731 | 93.787 | -0.9439 |
| 332 | 30 | HDR unbiased | 95.581 | 95.008 | -0.5734 |
| 333 | 30 | HDR unbiased | 96.628 | 94.562 | -2.0663 |
| 334 | 30 | HDR unbiased | 97.469 | 95.022 | -2.4471 |
| 335 | 30 | HDR unbiased | 98.266 | 95.586 | -2.6803 |
| 351 | 50 | HDR unbiased | 96.463 | 93.627 | -2.8364 |
| 352 | 50 | HDR unbiased | 99.604 | 94.777 | -4.8272 |
| 353 | 50 | HDR unbiased | 97.215 | 94.133 | -3.0815 |
| 354 | 50 | HDR unbiased | 93.555 | 97.192 | 3.6368 |
| 355 | 50 | HDR unbiased | 100.93 | 91.082 | -9.8511 |
| 521 | 20 | HDR biased | 95.952 | 92.692 | -3.2602 |
| 522 | 20 | HDR biased | 94.172 | 91.663 | -2.5095 |
| 523 | 20 | HDR biased | 94.439 | 92.597 | -1.8429 |
| 524 | 20 | HDR biased | 95.998 | 94.842 | -1.1556 |
| 525 | 20 | HDR biased | 97.342 | 94.365 | -2.9761 |
| 531 | 30 | HDR biased | 95.002 | 94.333 | -0.6692 |
| 532 | 30 | HDR biased | 96.331 | 95.977 | -0.3531 |
| 533 | 30 | HDR biased | 95.939 | 95.716 | -0.2232 |
| 534 | 30 | HDR biased | 96.499 | 93.206 | -3.2924 |
| 535 | 30 | HDR biased | 97.387 | 93.165 | -4.2224 |
| 551 | 50 | HDR biased | 94.678 | 89.749 | -4.929 |
| 552 | 50 | HDR biased | 93.788 | 91.294 | -2.4938 |
| 553 | 50 | HDR biased | 94.078 | 88.865 | -5.2133 |
| 554 | 50 | HDR biased | 95.567 | 92.626 | -2.9413 |
| 555 | 50 | HDR biased | 95.24 | 92.871 | -2.3686 |

TID vs Post - Pre Exposure Delta

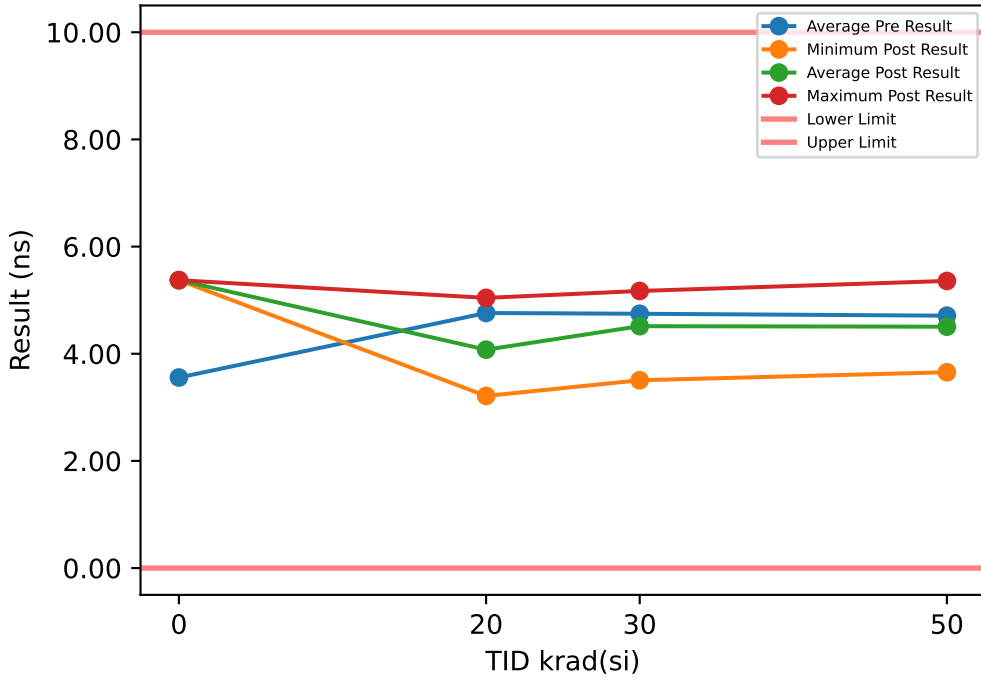


Test Statistics (ns)

| 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 | 99.269 | 99.269 | 99.269 | | 95.842 | 95.842 | 95.842 | | -3.4273 | -3.4273 | -3.4273 | |
| 20 | 94.172 | 96.445 | 98.72 | 1.7228 | 91.663 | 94.34 | 97.873 | 1.9388 | -3.3239 | -2.1045 | 0.1545 | 1.1403 |
| 30 | 94.731 | 96.383 | 98.266 | 1.12 | 93.165 | 94.636 | 95.977 | 1.0102 | -4.2224 | -1.7471 | -0.2232 | 1.3916 |
| 50 | 93.555 | 96.112 | 100.93 | 2.4936 | 88.865 | 92.622 | 97.192 | 2.4807 | -9.8511 | -3.4905 | 3.6368 | 3.3537 |

Device Test: 95.24 T_RHL_MIN(_DHL Dead Time Min 1MHz VIN_10V)

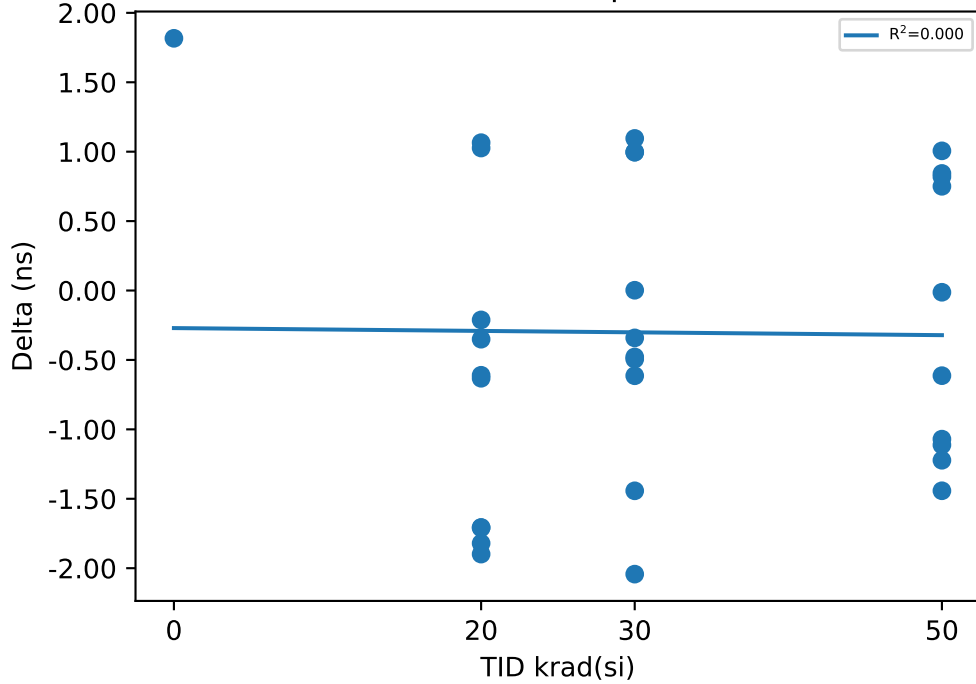
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.5566 | 5.3732 | 1.8166 |
| 321 | 20 | HDR unbiased | 5.613 | 3.7923 | -1.8207 |
| 322 | 20 | HDR unbiased | 5.2698 | 3.5632 | -1.7066 |
| 323 | 20 | HDR unbiased | 4.5117 | 4.3 | -0.2117 |
| 324 | 20 | HDR unbiased | 4.9614 | 4.351 | -0.6104 |
| 325 | 20 | HDR unbiased | 3.3911 | 4.4175 | 1.0264 |
| 331 | 30 | HDR unbiased | 4.0376 | 5.035 | 0.9974 |
| 332 | 30 | HDR unbiased | 4.0761 | 5.1716 | 1.0955 |
| 333 | 30 | HDR unbiased | 4.161 | 4.163 | 0.002 |
| 334 | 30 | HDR unbiased | 5.6898 | 5.0759 | -0.6139 |
| 335 | 30 | HDR unbiased | 5.1737 | 4.8325 | -0.3412 |
| 351 | 50 | HDR unbiased | 3.7058 | 4.7118 | 1.006 |
| 352 | 50 | HDR unbiased | 5.3471 | 4.2766 | -1.0705 |
| 353 | 50 | HDR unbiased | 5.2431 | 4.6298 | -0.6133 |
| 354 | 50 | HDR unbiased | 3.928 | 4.7713 | 0.8433 |
| 355 | 50 | HDR unbiased | 5.3143 | 4.0917 | -1.2226 |
| 521 | 20 | HDR biased | 5.2634 | 3.5544 | -1.709 |
| 522 | 20 | HDR biased | 5.6746 | 5.0426 | -0.632 |
| 523 | 20 | HDR biased | 4.4975 | 4.1469 | -0.3506 |
| 524 | 20 | HDR biased | 3.3145 | 4.3794 | 1.0649 |
| 525 | 20 | HDR biased | 5.1109 | 3.2125 | -1.8984 |
| 531 | 30 | HDR biased | 3.9819 | 4.9779 | 0.996 |
| 532 | 30 | HDR biased | 4.2306 | 3.7523 | -0.4783 |
| 533 | 30 | HDR biased | 5.5437 | 5.0496 | -0.4941 |
| 534 | 30 | HDR biased | 4.9481 | 3.5055 | -1.4426 |
| 535 | 30 | HDR biased | 5.6222 | 3.5794 | -2.0428 |
| 551 | 50 | HDR biased | 6.2189 | 5.1065 | -1.1124 |
| 552 | 50 | HDR biased | 4.6079 | 5.3586 | 0.7507 |
| 553 | 50 | HDR biased | 5.4029 | 3.9606 | -1.4423 |
| 554 | 50 | HDR biased | 3.6698 | 4.4897 | 0.8199 |
| 555 | 50 | HDR biased | 3.6673 | 3.6548 | -0.0125 |

TID vs Post - Pre Exposure Delta

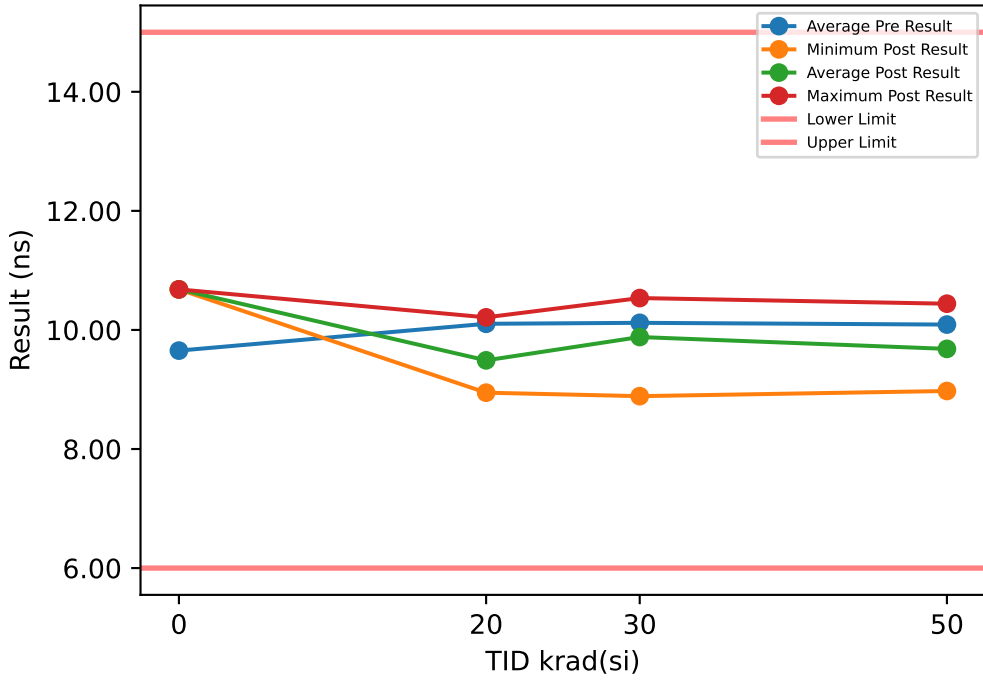


Test Statistics (ns)

| 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 | 3.5566 | 3.5566 | 3.5566 | | 5.3732 | 5.3732 | 5.3732 | | 1.8166 | 1.8166 | 1.8166 | |
| 20 | 3.3145 | 4.7608 | 5.6746 | 0.83898 | 3.2125 | 4.076 | 5.0426 | 0.54109 | -1.8984 | -0.68481 | 1.0649 | 1.115 |
| 30 | 3.9819 | 4.7465 | 5.6898 | 0.71964 | 3.5055 | 4.5143 | 5.1716 | 0.68452 | -2.0428 | -0.2322 | 1.0955 | 1.0471 |
| 50 | 3.6673 | 4.7105 | 6.2189 | 0.91965 | 3.6548 | 4.5051 | 5.3586 | 0.52304 | -1.4423 | -0.20537 | 1.006 | 0.99286 |

Device Test: 95.25 T_RHL_SMALL(_DHL Dead Time Small 1MHz VIN_10V)

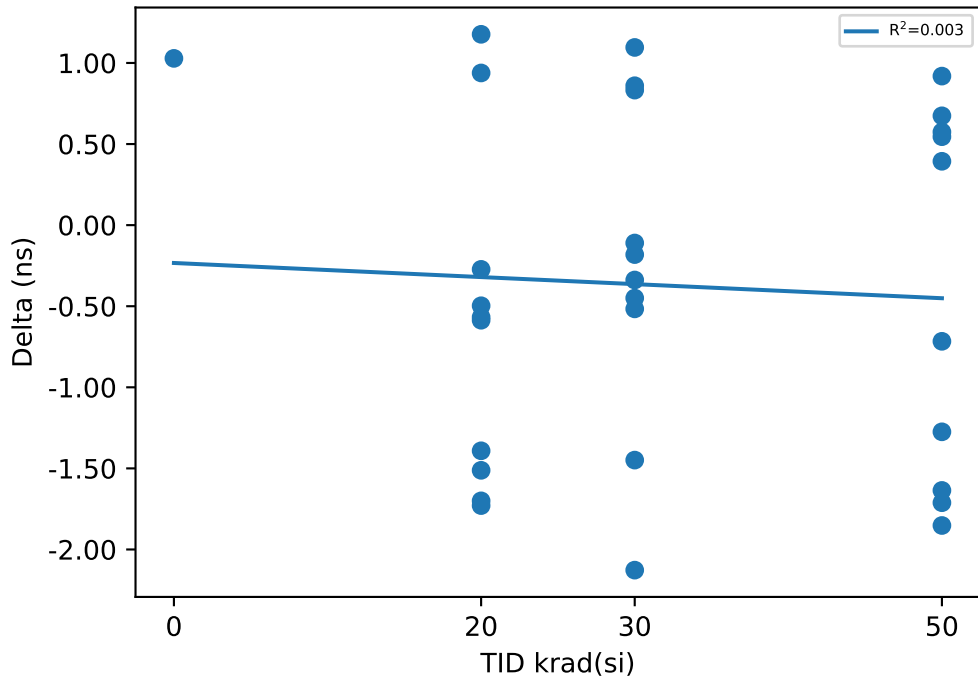
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.6528 | 10.681 | 1.0283 |
| 321 | 20 | HDR unbiased | 10.954 | 9.2535 | -1.7002 |
| 322 | 20 | HDR unbiased | 10.675 | 8.946 | -1.7293 |
| 323 | 20 | HDR unbiased | 9.6918 | 9.4191 | -0.2727 |
| 324 | 20 | HDR unbiased | 10.408 | 9.8214 | -0.5864 |
| 325 | 20 | HDR unbiased | 8.8184 | 9.9951 | 1.1767 |
| 331 | 30 | HDR unbiased | 9.4022 | 10.262 | 0.8596 |
| 332 | 30 | HDR unbiased | 9.4398 | 10.536 | 1.0957 |
| 333 | 30 | HDR unbiased | 9.6207 | 9.5105 | -0.1102 |
| 334 | 30 | HDR unbiased | 10.969 | 10.453 | -0.5164 |
| 335 | 30 | HDR unbiased | 10.446 | 10.264 | -0.1816 |
| 351 | 50 | HDR unbiased | 9.2642 | 9.9383 | 0.6741 |
| 352 | 50 | HDR unbiased | 10.922 | 9.2104 | -1.7116 |
| 353 | 50 | HDR unbiased | 10.624 | 9.908 | -0.7164 |
| 354 | 50 | HDR unbiased | 9.2136 | 10.133 | 0.919 |
| 355 | 50 | HDR unbiased | 10.868 | 9.0158 | -1.8521 |
| 521 | 20 | HDR biased | 10.716 | 9.3246 | -1.3915 |
| 522 | 20 | HDR biased | 10.779 | 10.212 | -0.5672 |
| 523 | 20 | HDR biased | 9.7907 | 9.2935 | -0.4972 |
| 524 | 20 | HDR biased | 8.7081 | 9.6465 | 0.9384 |
| 525 | 20 | HDR biased | 10.492 | 8.9806 | -1.5119 |
| 531 | 30 | HDR biased | 9.4469 | 10.28 | 0.8326 |
| 532 | 30 | HDR biased | 9.5614 | 9.2231 | -0.3383 |
| 533 | 30 | HDR biased | 10.773 | 10.323 | -0.4499 |
| 534 | 30 | HDR biased | 10.52 | 9.071 | -1.4489 |
| 535 | 30 | HDR biased | 11.015 | 8.8878 | -2.1274 |
| 551 | 50 | HDR biased | 11.413 | 10.139 | -1.2745 |
| 552 | 50 | HDR biased | 9.8664 | 10.441 | 0.5743 |
| 553 | 50 | HDR biased | 10.61 | 8.9745 | -1.6359 |
| 554 | 50 | HDR biased | 9.1336 | 9.679 | 0.5454 |
| 555 | 50 | HDR biased | 8.9878 | 9.3815 | 0.3937 |

TID vs Post - Pre Exposure Delta

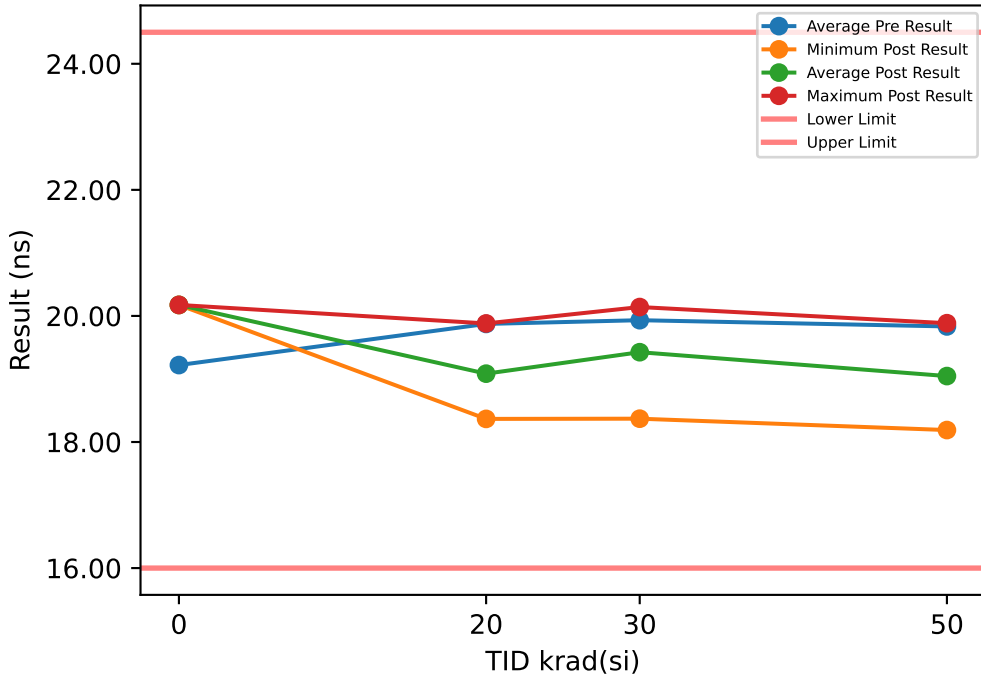


Test Statistics (ns)

| 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 | 9.6528 | 9.6528 | 9.6528 | | 10.681 | 10.681 | 10.681 | | 1.0283 | 1.0283 | 1.0283 | |
| 20 | 8.7081 | 10.103 | 10.954 | 0.81588 | 8.946 | 9.4892 | 10.212 | 0.42065 | -1.7293 | -0.61413 | 1.1767 | 1.0319 |
| 30 | 9.4022 | 10.119 | 11.015 | 0.68377 | 8.8878 | 9.881 | 10.536 | 0.63372 | -2.1274 | -0.23848 | 1.0957 | 1.0175 |
| 50 | 8.9878 | 10.09 | 11.413 | 0.89653 | 8.9745 | 9.6819 | 10.441 | 0.51219 | -1.8521 | -0.4084 | 0.919 | 1.1347 |

Device Test: 95.26 T_RHL_MID(_DHL Dead Time Mid 1MHz VIN_10V)

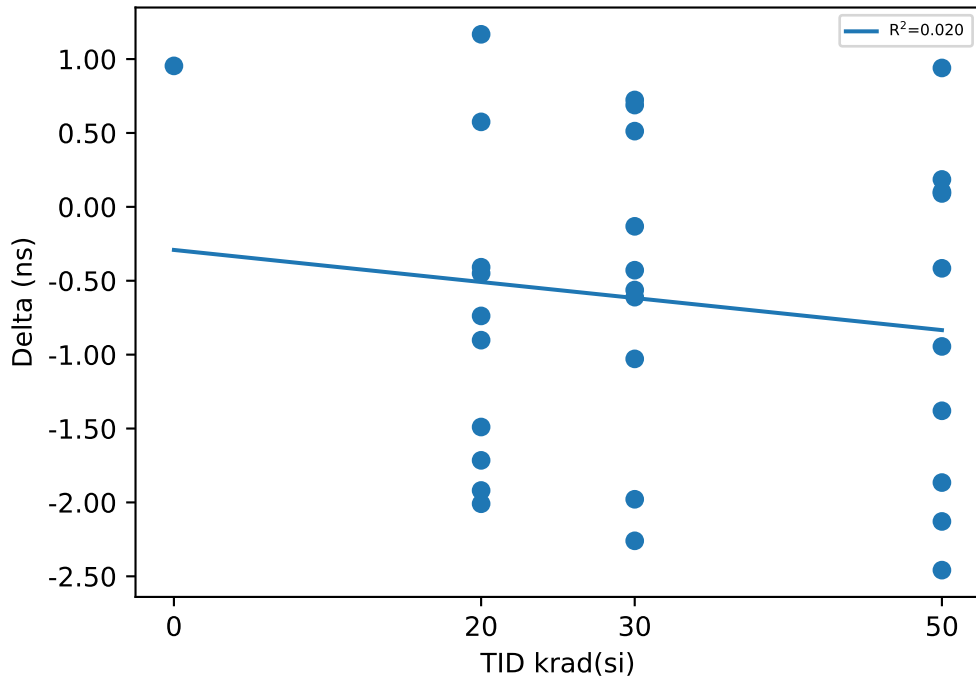
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.221 | 20.174 | 0.9539 |
| 321 | 20 | HDR unbiased | 20.96 | 18.951 | -2.0089 |
| 322 | 20 | HDR unbiased | 20.624 | 19.134 | -1.4897 |
| 323 | 20 | HDR unbiased | 19.337 | 18.887 | -0.4501 |
| 324 | 20 | HDR unbiased | 20.384 | 19.646 | -0.738 |
| 325 | 20 | HDR unbiased | 18.713 | 19.881 | 1.1676 |
| 331 | 30 | HDR unbiased | 19.203 | 19.716 | 0.5124 |
| 332 | 30 | HDR unbiased | 19.418 | 20.141 | 0.7233 |
| 333 | 30 | HDR unbiased | 19.294 | 19.163 | -0.1318 |
| 334 | 30 | HDR unbiased | 20.953 | 19.924 | -1.0287 |
| 335 | 30 | HDR unbiased | 20.537 | 19.925 | -0.6111 |
| 351 | 50 | HDR unbiased | 19.241 | 19.343 | 0.1023 |
| 352 | 50 | HDR unbiased | 20.927 | 18.798 | -2.1287 |
| 353 | 50 | HDR unbiased | 20.39 | 19.445 | -0.9444 |
| 354 | 50 | HDR unbiased | 18.945 | 19.885 | 0.9399 |
| 355 | 50 | HDR unbiased | 20.854 | 18.396 | -2.4582 |
| 521 | 20 | HDR biased | 20.379 | 18.46 | -1.9192 |
| 522 | 20 | HDR biased | 20.358 | 19.456 | -0.9021 |
| 523 | 20 | HDR biased | 19.154 | 18.746 | -0.4085 |
| 524 | 20 | HDR biased | 18.74 | 19.315 | 0.5751 |
| 525 | 20 | HDR biased | 20.082 | 18.367 | -1.7154 |
| 531 | 30 | HDR biased | 19.015 | 19.704 | 0.6888 |
| 532 | 30 | HDR biased | 19.374 | 18.945 | -0.4287 |
| 533 | 30 | HDR biased | 20.464 | 19.901 | -0.5628 |
| 534 | 30 | HDR biased | 20.436 | 18.457 | -1.9787 |
| 535 | 30 | HDR biased | 20.63 | 18.37 | -2.2598 |
| 551 | 50 | HDR biased | 20.708 | 19.328 | -1.3799 |
| 552 | 50 | HDR biased | 19.473 | 19.658 | 0.1855 |
| 553 | 50 | HDR biased | 20.055 | 18.19 | -1.8656 |
| 554 | 50 | HDR biased | 19.021 | 19.112 | 0.0907 |
| 555 | 50 | HDR biased | 18.721 | 18.305 | -0.4158 |

TID vs Post - Pre Exposure Delta

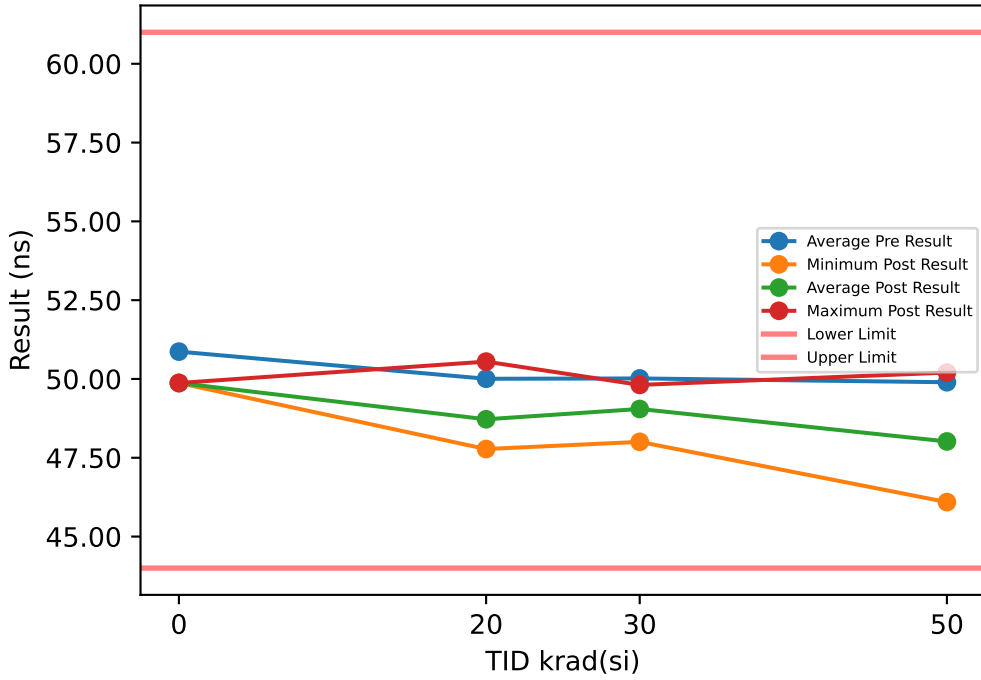


Test Statistics (ns)

| 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 | 19.221 | 19.221 | 19.221 | | 20.174 | 20.174 | 20.174 | | 0.9539 | 0.9539 | 0.9539 | |
| 20 | 18.713 | 19.873 | 20.96 | 0.81472 | 18.367 | 19.084 | 19.881 | 0.49651 | -2.0089 | -0.78892 | 1.1676 | 1.0582 |
| 30 | 19.015 | 19.932 | 20.953 | 0.72911 | 18.37 | 19.425 | 20.141 | 0.64547 | -2.2598 | -0.50771 | 0.7233 | 1.0357 |
| 50 | 18.721 | 19.833 | 20.927 | 0.85174 | 18.19 | 19.046 | 19.885 | 0.5942 | -2.4582 | -0.78742 | 0.9399 | 1.1431 |

Device Test: 95.27 T_RHL_LARGE(_DHL Dead Time Large 1MHz VIN_10V)

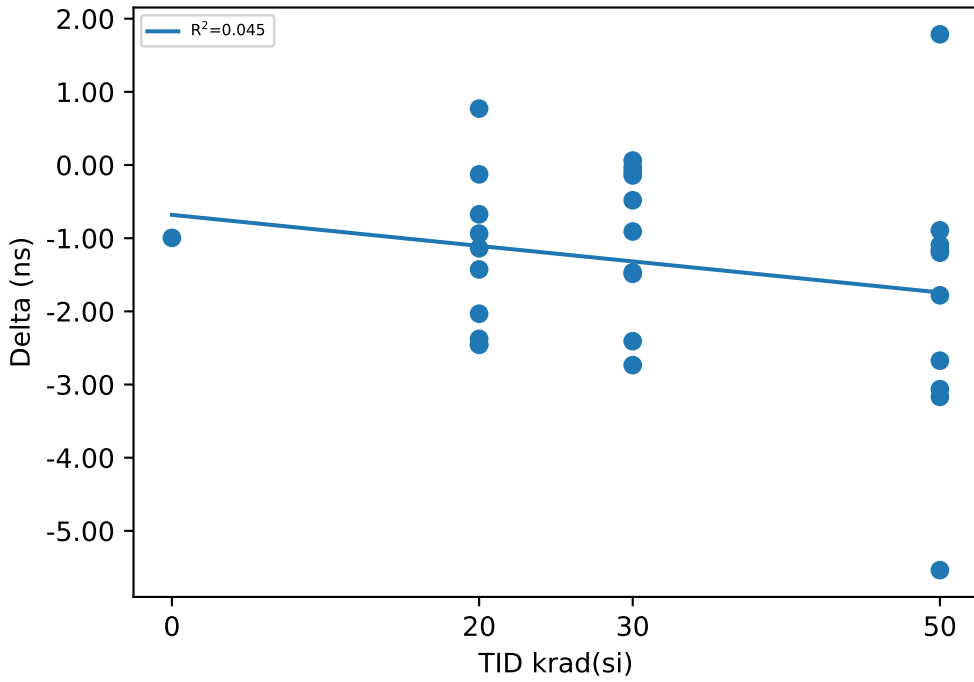
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 50.868 | 49.872 | -0.9956 |
| 321 | 20 | HDR unbiased | 51.218 | 48.842 | -2.3756 |
| 322 | 20 | HDR unbiased | 51.277 | 48.823 | -2.4542 |
| 323 | 20 | HDR unbiased | 48.809 | 47.871 | -0.9377 |
| 324 | 20 | HDR unbiased | 51.03 | 49.892 | -1.138 |
| 325 | 20 | HDR unbiased | 49.78 | 50.551 | 0.771 |
| 331 | 30 | HDR unbiased | 49 | 48.973 | -0.0276 |
| 332 | 30 | HDR unbiased | 49.557 | 49.464 | -0.0933 |
| 333 | 30 | HDR unbiased | 49.783 | 48.875 | -0.9085 |
| 334 | 30 | HDR unbiased | 50.932 | 49.465 | -1.4665 |
| 335 | 30 | HDR unbiased | 51.298 | 49.812 | -1.4866 |
| 351 | 50 | HDR unbiased | 49.776 | 48.607 | -1.1686 |
| 352 | 50 | HDR unbiased | 51.661 | 48.492 | -3.1691 |
| 353 | 50 | HDR unbiased | 50.728 | 48.947 | -1.7812 |
| 354 | 50 | HDR unbiased | 48.416 | 50.203 | 1.7865 |
| 355 | 50 | HDR unbiased | 52.458 | 46.922 | -5.5368 |
| 521 | 20 | HDR biased | 50.233 | 47.777 | -2.4567 |
| 522 | 20 | HDR biased | 49.294 | 47.867 | -1.4272 |
| 523 | 20 | HDR biased | 48.834 | 48.161 | -0.6734 |
| 524 | 20 | HDR biased | 49.237 | 49.11 | -0.1271 |
| 525 | 20 | HDR biased | 50.351 | 48.319 | -2.0326 |
| 531 | 30 | HDR biased | 49.025 | 49.086 | 0.0615 |
| 532 | 30 | HDR biased | 49.388 | 49.246 | -0.142 |
| 533 | 30 | HDR biased | 49.989 | 49.507 | -0.4816 |
| 534 | 30 | HDR biased | 50.413 | 48.005 | -2.4081 |
| 535 | 30 | HDR biased | 50.785 | 48.05 | -2.735 |
| 551 | 50 | HDR biased | 49.827 | 47.154 | -2.6736 |
| 552 | 50 | HDR biased | 48.74 | 47.848 | -0.8923 |
| 553 | 50 | HDR biased | 49.157 | 46.093 | -3.0638 |
| 554 | 50 | HDR biased | 49.353 | 48.261 | -1.0921 |
| 555 | 50 | HDR biased | 48.847 | 47.649 | -1.1978 |

TID vs Post - Pre Exposure Delta

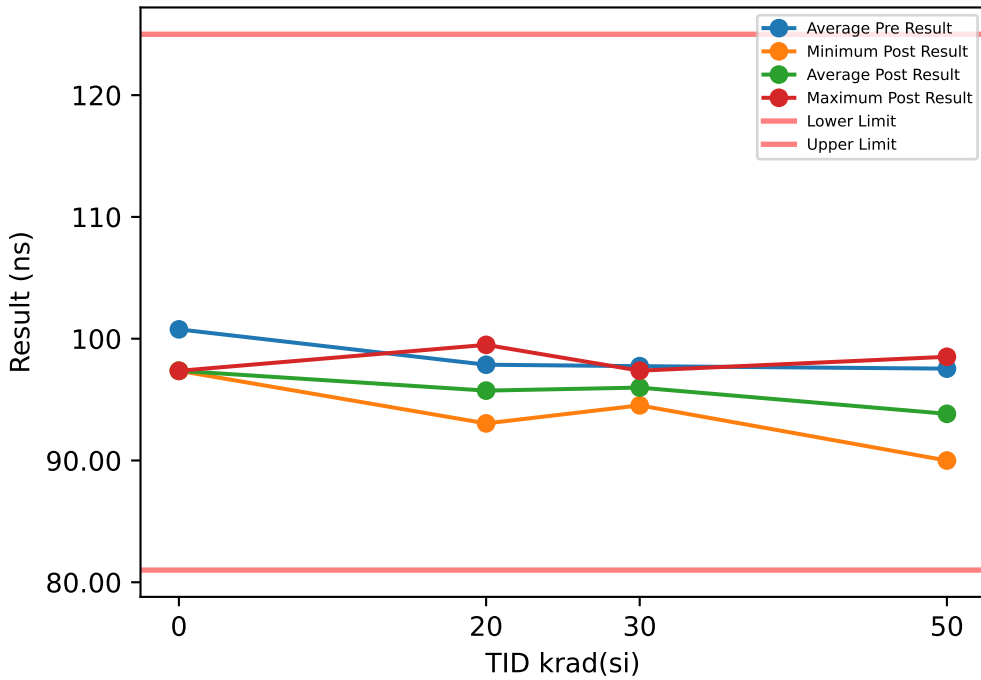


Test Statistics (ns)

| 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 | 50.868 | 50.868 | 50.868 | | 49.872 | 49.872 | 49.872 | | -0.9956 | -0.9956 | -0.9956 | |
| 20 | 48.809 | 50.006 | 51.277 | 0.95795 | 47.777 | 48.721 | 50.551 | 0.9258 | -2.4567 | -1.2852 | 0.771 | 1.0849 |
| 30 | 49 | 50.017 | 51.298 | 0.8101 | 48.005 | 49.048 | 49.812 | 0.60565 | -2.735 | -0.96877 | 0.0615 | 1.019 |
| 50 | 48.416 | 49.896 | 52.458 | 1.3275 | 46.093 | 48.018 | 50.203 | 1.1588 | -5.5368 | -1.8789 | 1.7865 | 1.9173 |

Device Test: 95.28 T_RHL_MAX(_DHL Dead Time Max 1MHz VIN_10V)

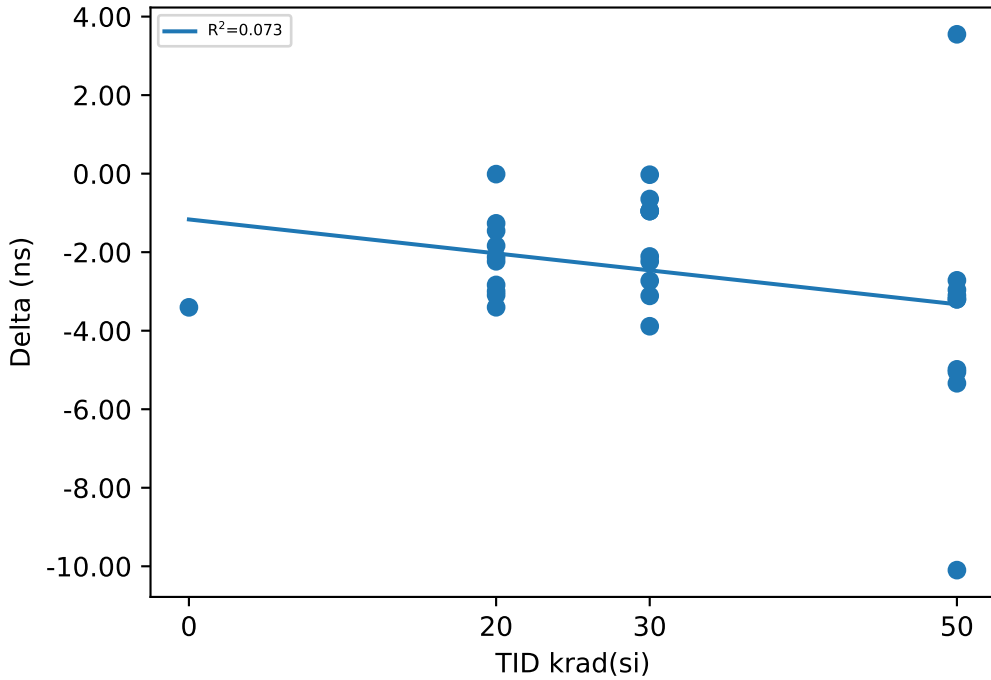
TID vs Result Stats



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 100.77 | 97.362 | -3.405 |
| 321 | 20 | HDR unbiased | 98.961 | 95.869 | -3.0927 |
| 322 | 20 | HDR unbiased | 100.21 | 96.805 | -3.4033 |
| 323 | 20 | HDR unbiased | 95.654 | 93.818 | -1.8361 |
| 324 | 20 | HDR unbiased | 99.463 | 98.006 | -1.4568 |
| 325 | 20 | HDR unbiased | 99.507 | 99.495 | -0.0121 |
| 331 | 30 | HDR unbiased | 96.143 | 95.19 | -0.9531 |
| 332 | 30 | HDR unbiased | 97.286 | 96.334 | -0.9519 |
| 333 | 30 | HDR unbiased | 98.058 | 95.949 | -2.1088 |
| 334 | 30 | HDR unbiased | 98.611 | 96.375 | -2.2355 |
| 335 | 30 | HDR unbiased | 99.562 | 96.832 | -2.7301 |
| 351 | 50 | HDR unbiased | 98.116 | 94.915 | -3.2002 |
| 352 | 50 | HDR unbiased | 101.08 | 96.031 | -5.0505 |
| 353 | 50 | HDR unbiased | 98.636 | 95.437 | -3.1987 |
| 354 | 50 | HDR unbiased | 94.966 | 98.515 | 3.549 |
| 355 | 50 | HDR unbiased | 102.44 | 92.337 | -10.098 |
| 521 | 20 | HDR biased | 97.36 | 94.526 | -2.8338 |
| 522 | 20 | HDR biased | 95.278 | 93.046 | -2.2323 |
| 523 | 20 | HDR biased | 95.949 | 93.825 | -2.1241 |
| 524 | 20 | HDR biased | 97.53 | 96.265 | -1.2656 |
| 525 | 20 | HDR biased | 98.724 | 95.727 | -2.9969 |
| 531 | 30 | HDR biased | 96.615 | 95.665 | -0.9504 |
| 532 | 30 | HDR biased | 98.02 | 97.374 | -0.646 |
| 533 | 30 | HDR biased | 97.068 | 97.041 | -0.0267 |
| 534 | 30 | HDR biased | 97.69 | 94.578 | -3.1126 |
| 535 | 30 | HDR biased | 98.413 | 94.527 | -3.8865 |
| 551 | 50 | HDR biased | 95.897 | 90.913 | -4.984 |
| 552 | 50 | HDR biased | 95.161 | 92.444 | -2.717 |
| 553 | 50 | HDR biased | 95.336 | 89.997 | -5.3391 |
| 554 | 50 | HDR biased | 97.059 | 93.955 | -3.1035 |
| 555 | 50 | HDR biased | 96.731 | 93.772 | -2.9593 |

TID vs Post - Pre Exposure Delta

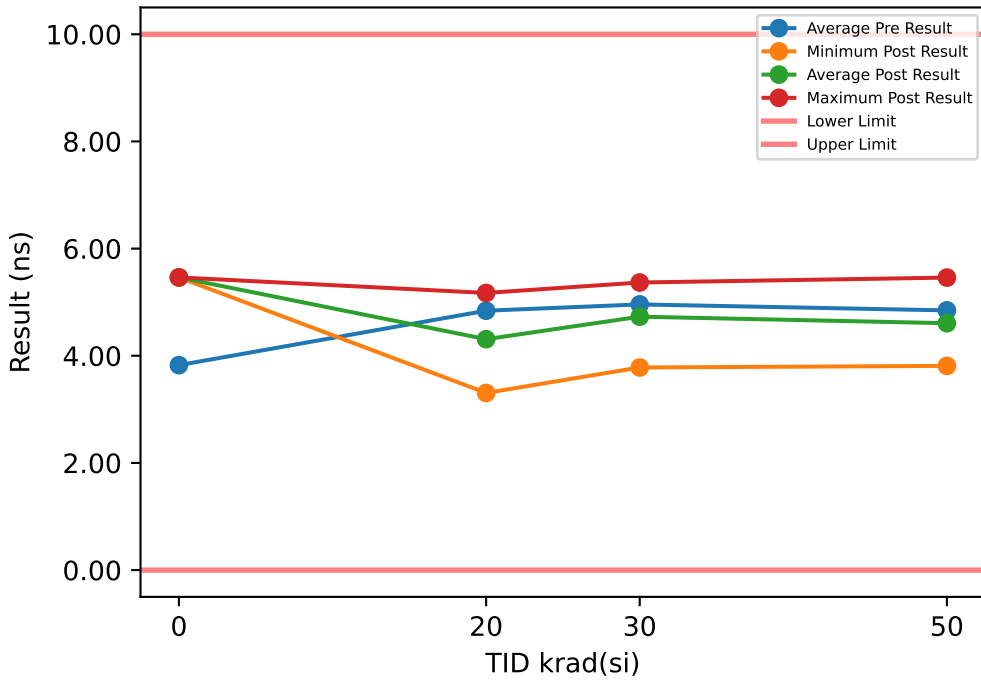


Test Statistics (ns)

| 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 | 100.77 | 100.77 | 100.77 | | 97.362 | 97.362 | 97.362 | | -3.405 | -3.405 | -3.405 | |
| 20 | 95.278 | 97.863 | 100.21 | 1.7732 | 93.046 | 95.738 | 99.495 | 2.0209 | -3.4033 | -2.1254 | -0.0121 | 1.0316 |
| 30 | 96.143 | 97.747 | 99.562 | 1.0105 | 94.527 | 95.986 | 97.374 | 0.99342 | -3.8865 | -1.7602 | -0.0267 | 1.2403 |
| 50 | 94.966 | 97.542 | 102.44 | 2.5554 | 89.997 | 93.832 | 98.515 | 2.5369 | -10.098 | -3.7101 | 3.549 | 3.3667 |

Device Test: 95.29 T_RHL_MIN(_DHL Dead Time Min 2MHz VIN_10V)

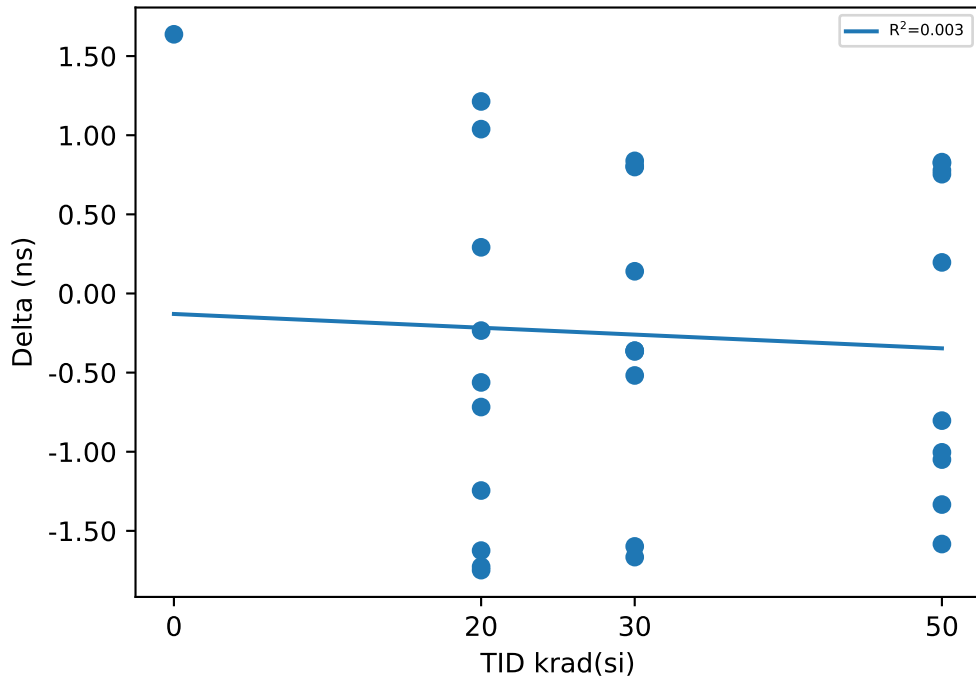
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.8247 | 5.4623 | 1.6376 |
| 321 | 20 | HDR unbiased | 5.6893 | 3.9412 | -1.7481 |
| 322 | 20 | HDR unbiased | 5.2845 | 3.6599 | -1.6246 |
| 323 | 20 | HDR unbiased | 4.6261 | 4.9178 | 0.2917 |
| 324 | 20 | HDR unbiased | 5.0225 | 4.4605 | -0.562 |
| 325 | 20 | HDR unbiased | 3.3691 | 4.5825 | 1.2134 |
| 331 | 30 | HDR unbiased | 4.321 | 5.1199 | 0.7989 |
| 332 | 30 | HDR unbiased | 4.5611 | 5.3669 | 0.8058 |
| 333 | 30 | HDR unbiased | 4.2223 | 4.3625 | 0.1402 |
| 334 | 30 | HDR unbiased | 5.7262 | 5.3645 | -0.3617 |
| 335 | 30 | HDR unbiased | 5.3378 | 4.9761 | -0.3617 |
| 351 | 50 | HDR unbiased | 3.9831 | 4.7368 | 0.7537 |
| 352 | 50 | HDR unbiased | 5.3815 | 4.0478 | -1.3337 |
| 353 | 50 | HDR unbiased | 5.5139 | 4.7105 | -0.8034 |
| 354 | 50 | HDR unbiased | 4.0842 | 4.9078 | 0.8236 |
| 355 | 50 | HDR unbiased | 5.5385 | 3.9553 | -1.5832 |
| 521 | 20 | HDR biased | 5.5008 | 4.2557 | -1.2451 |
| 522 | 20 | HDR biased | 5.8898 | 5.1722 | -0.7176 |
| 523 | 20 | HDR biased | 4.5508 | 4.3163 | -0.2345 |
| 524 | 20 | HDR biased | 3.4412 | 4.4796 | 1.0384 |
| 525 | 20 | HDR biased | 5.032 | 3.3057 | -1.7263 |
| 531 | 30 | HDR biased | 4.2305 | 5.0684 | 0.8379 |
| 532 | 30 | HDR biased | 4.2946 | 3.9282 | -0.3664 |
| 533 | 30 | HDR biased | 5.6462 | 5.1282 | -0.518 |
| 534 | 30 | HDR biased | 5.4469 | 3.7811 | -1.6658 |
| 535 | 30 | HDR biased | 5.7955 | 4.1973 | -1.5982 |
| 551 | 50 | HDR biased | 6.315 | 5.2654 | -1.0496 |
| 552 | 50 | HDR biased | 4.6808 | 5.4585 | 0.7777 |
| 553 | 50 | HDR biased | 5.5849 | 4.5812 | -1.0037 |
| 554 | 50 | HDR biased | 3.7708 | 4.6007 | 0.8299 |
| 555 | 50 | HDR biased | 3.6143 | 3.8107 | 0.1964 |

TID vs Post - Pre Exposure Delta

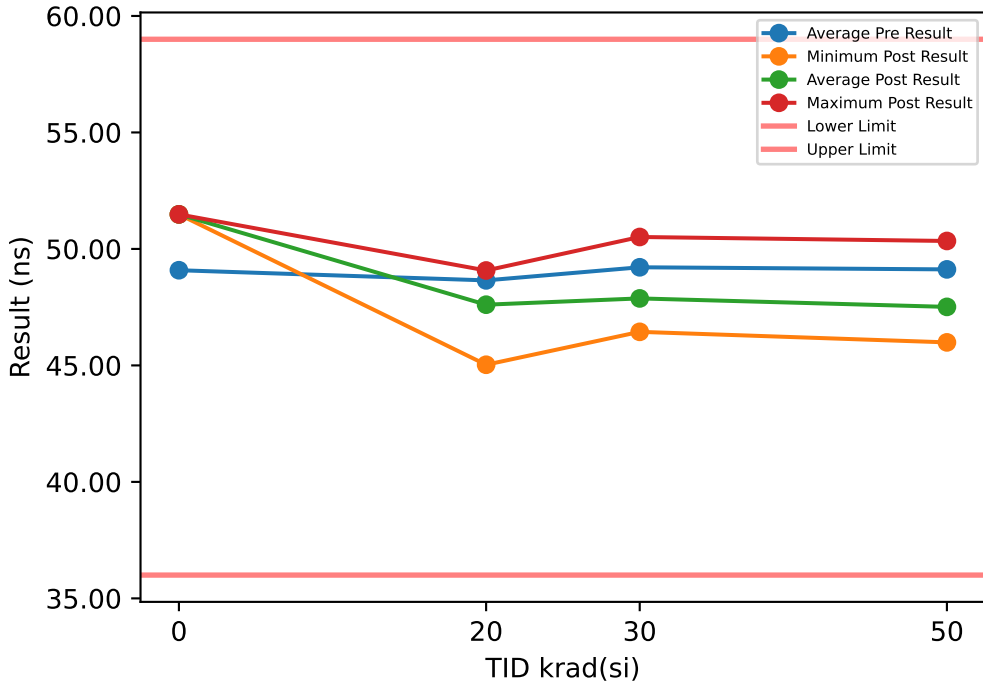


Test Statistics (ns)

| 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 | 3.8247 | 3.8247 | 3.8247 | | 5.4623 | 5.4623 | 5.4623 | | 1.6376 | 1.6376 | 1.6376 | |
| 20 | 3.3691 | 4.8406 | 5.8898 | 0.86778 | 3.3057 | 4.3091 | 5.1722 | 0.55864 | -1.7481 | -0.53147 | 1.2134 | 1.1016 |
| 30 | 4.2223 | 4.9582 | 5.7955 | 0.68494 | 3.7811 | 4.7293 | 5.3669 | 0.60148 | -1.6658 | -0.2289 | 0.8379 | 0.91157 |
| 50 | 3.6143 | 4.8467 | 6.315 | 0.93937 | 3.8107 | 4.6075 | 5.4585 | 0.5425 | -1.5832 | -0.23923 | 0.8299 | 1.0026 |

Device Test: 95.3 T_RLH_LARGE(_DLHDead Time Large 500kHz VIN_10V)

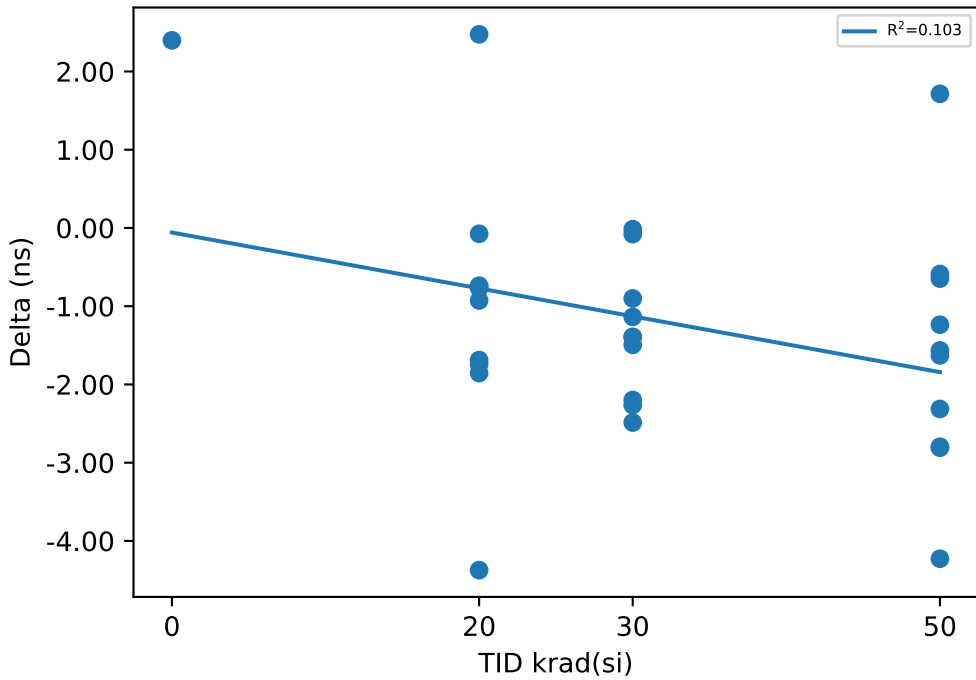
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 49.086 | 51.484 | 2.3981 |
| 321 | 20 | HDR unbiased | 48.93 | 47.241 | -1.6882 |
| 322 | 20 | HDR unbiased | 48.938 | 47.196 | -1.7422 |
| 323 | 20 | HDR unbiased | 49.235 | 48.496 | -0.7382 |
| 324 | 20 | HDR unbiased | 49.014 | 48.249 | -0.7654 |
| 325 | 20 | HDR unbiased | 47.628 | 47.554 | -0.0747 |
| 331 | 30 | HDR unbiased | 47.896 | 47.881 | -0.0158 |
| 332 | 30 | HDR unbiased | 50.592 | 50.513 | -0.0789 |
| 333 | 30 | HDR unbiased | 47.935 | 46.441 | -1.4935 |
| 334 | 30 | HDR unbiased | 48.676 | 47.54 | -1.1359 |
| 335 | 30 | HDR unbiased | 49.266 | 47.87 | -1.3956 |
| 351 | 50 | HDR unbiased | 47.381 | 49.095 | 1.7141 |
| 352 | 50 | HDR unbiased | 49.511 | 46.715 | -2.7959 |
| 353 | 50 | HDR unbiased | 50.933 | 46.705 | -4.2276 |
| 354 | 50 | HDR unbiased | 48.201 | 46.635 | -1.5655 |
| 355 | 50 | HDR unbiased | 48.612 | 46.299 | -2.3132 |
| 521 | 20 | HDR biased | 48.888 | 47.033 | -1.8543 |
| 522 | 20 | HDR biased | 49.822 | 49.075 | -0.7468 |
| 523 | 20 | HDR biased | 48.312 | 47.386 | -0.9269 |
| 524 | 20 | HDR biased | 46.332 | 48.807 | 2.475 |
| 525 | 20 | HDR biased | 49.402 | 45.029 | -4.3733 |
| 531 | 30 | HDR biased | 48.909 | 48.008 | -0.901 |
| 532 | 30 | HDR biased | 48.819 | 46.621 | -2.1983 |
| 533 | 30 | HDR biased | 51.066 | 48.579 | -2.4871 |
| 534 | 30 | HDR biased | 49.896 | 47.632 | -2.2636 |
| 535 | 30 | HDR biased | 49.067 | 47.675 | -1.3917 |
| 551 | 50 | HDR biased | 49.084 | 47.847 | -1.2367 |
| 552 | 50 | HDR biased | 50.93 | 50.342 | -0.5884 |
| 553 | 50 | HDR biased | 48.797 | 45.989 | -2.8083 |
| 554 | 50 | HDR biased | 48.395 | 47.748 | -0.6475 |
| 555 | 50 | HDR biased | 49.379 | 47.75 | -1.6287 |

TID vs Post - Pre Exposure Delta

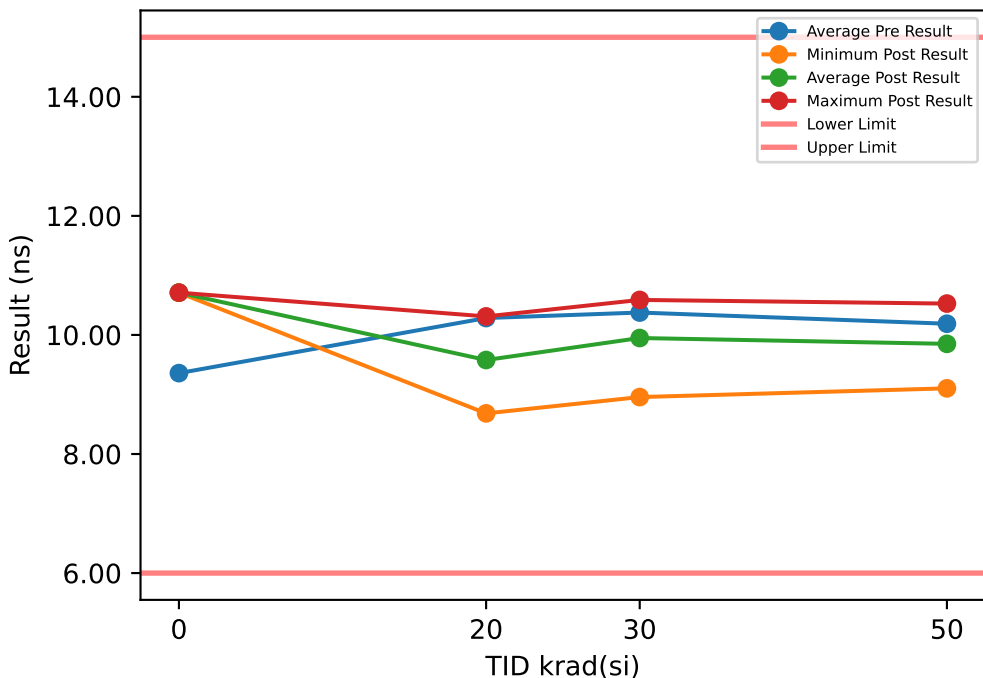


Test Statistics (ns)

| 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 | 49.086 | 49.086 | 49.086 | | 51.484 | 51.484 | 51.484 | | 2.3981 | 2.3981 | 2.3981 | |
| 20 | 46.332 | 48.65 | 49.822 | 1.0088 | 45.029 | 47.607 | 49.075 | 1.1609 | -4.3733 | -1.0435 | 2.475 | 1.7075 |
| 30 | 47.896 | 49.212 | 51.066 | 1.0396 | 46.441 | 47.876 | 50.513 | 1.121 | -2.4871 | -1.3361 | -0.0158 | 0.85069 |
| 50 | 47.381 | 49.122 | 50.933 | 1.1325 | 45.989 | 47.512 | 50.342 | 1.3575 | -4.2276 | -1.6098 | 1.7141 | 1.6107 |

Device Test: 95.30 T_RHL_SMALL(_DHL Dead Time Small 2MHz VIN_10V)

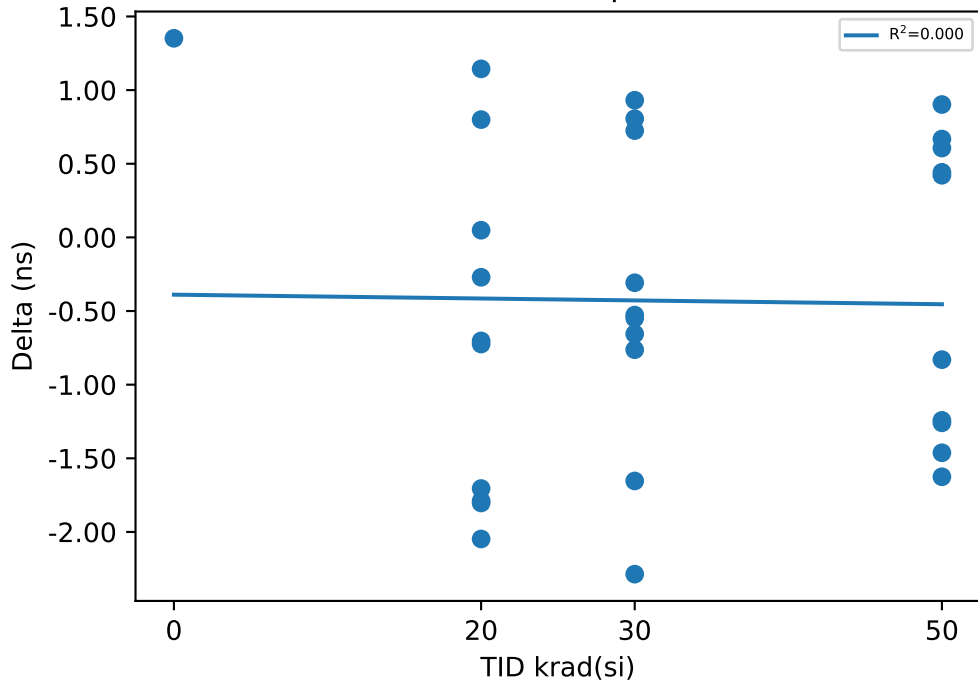
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.3586 | 10.71 | 1.3517 |
| 321 | 20 | HDR unbiased | 11.286 | 9.2388 | -2.0476 |
| 322 | 20 | HDR unbiased | 10.905 | 9.1164 | -1.7889 |
| 323 | 20 | HDR unbiased | 9.9089 | 9.6381 | -0.2708 |
| 324 | 20 | HDR unbiased | 10.63 | 9.9276 | -0.7029 |
| 325 | 20 | HDR unbiased | 8.92 | 10.064 | 1.1443 |
| 331 | 30 | HDR unbiased | 9.5343 | 10.34 | 0.8059 |
| 332 | 30 | HDR unbiased | 9.8631 | 10.588 | 0.725 |
| 333 | 30 | HDR unbiased | 9.9024 | 9.5945 | -0.3079 |
| 334 | 30 | HDR unbiased | 11.307 | 10.545 | -0.7626 |
| 335 | 30 | HDR unbiased | 10.887 | 10.339 | -0.5486 |
| 351 | 50 | HDR unbiased | 9.3324 | 10 | 0.6677 |
| 352 | 50 | HDR unbiased | 11.064 | 9.8052 | -1.2591 |
| 353 | 50 | HDR unbiased | 10.772 | 9.9417 | -0.8301 |
| 354 | 50 | HDR unbiased | 9.3483 | 10.251 | 0.9022 |
| 355 | 50 | HDR unbiased | 10.992 | 9.5298 | -1.4622 |
| 521 | 20 | HDR biased | 10.786 | 9.0804 | -1.7052 |
| 522 | 20 | HDR biased | 11.036 | 10.311 | -0.7242 |
| 523 | 20 | HDR biased | 9.8543 | 9.9029 | 0.0486 |
| 524 | 20 | HDR biased | 9.027 | 9.8268 | 0.7998 |
| 525 | 20 | HDR biased | 10.486 | 8.6826 | -1.8032 |
| 531 | 30 | HDR biased | 9.4528 | 10.384 | 0.9313 |
| 532 | 30 | HDR biased | 9.9401 | 9.2848 | -0.6553 |
| 533 | 30 | HDR biased | 10.948 | 10.421 | -0.5275 |
| 534 | 30 | HDR biased | 10.685 | 9.0309 | -1.6537 |
| 535 | 30 | HDR biased | 11.243 | 8.9564 | -2.2864 |
| 551 | 50 | HDR biased | 11.456 | 10.214 | -1.2423 |
| 552 | 50 | HDR biased | 9.9202 | 10.527 | 0.6066 |
| 553 | 50 | HDR biased | 10.728 | 9.103 | -1.6252 |
| 554 | 50 | HDR biased | 9.2867 | 9.7286 | 0.4419 |
| 555 | 50 | HDR biased | 8.9833 | 9.4051 | 0.4218 |

TID vs Post - Pre Exposure Delta

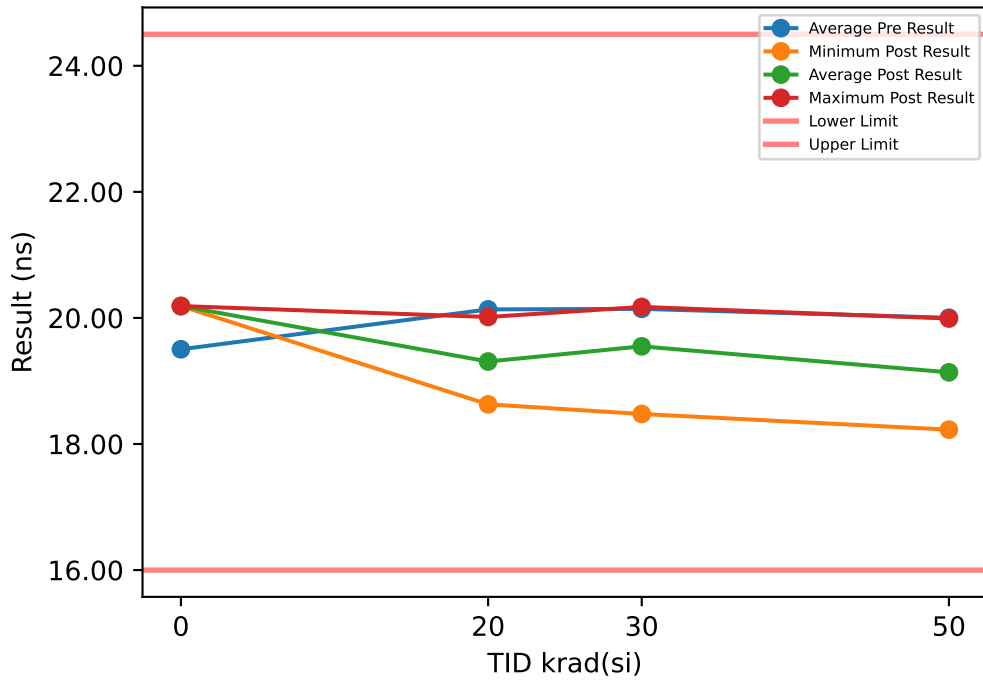


Test Statistics (ns)

| 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 | 9.3586 | 9.3586 | 9.3586 | | 10.71 | 10.71 | 10.71 | | 1.3517 | 1.3517 | 1.3517 | |
| 20 | 8.92 | 10.284 | 11.286 | 0.82555 | 8.6826 | 9.5789 | 10.311 | 0.52121 | -2.0476 | -0.70501 | 1.1443 | 1.1365 |
| 30 | 9.4528 | 10.376 | 11.307 | 0.71035 | 8.9564 | 9.9484 | 10.588 | 0.65621 | -2.2864 | -0.42798 | 0.9313 | 1.0466 |
| 50 | 8.9833 | 10.188 | 11.456 | 0.90847 | 9.103 | 9.8505 | 10.527 | 0.42909 | -1.6252 | -0.33787 | 0.9022 | 1.025 |

Device Test: 95.31 T_RHL_MID(_DHL Dead Time Mid 2MHz VIN_10V)

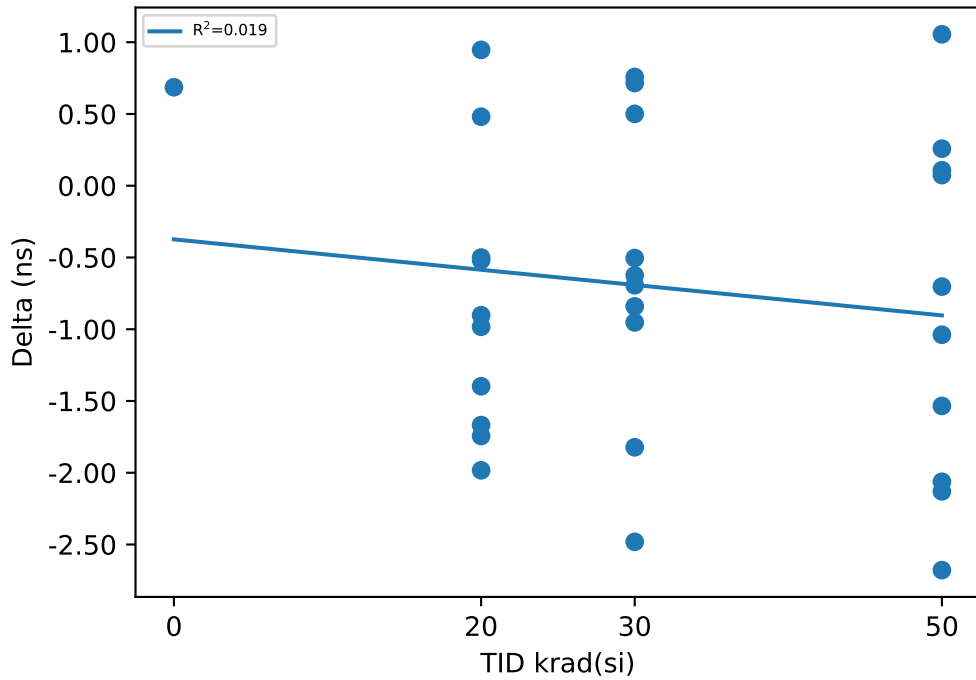
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.503 | 20.189 | 0.6862 |
| 321 | 20 | HDR unbiased | 21.164 | 19.421 | -1.7437 |
| 322 | 20 | HDR unbiased | 20.879 | 19.212 | -1.6677 |
| 323 | 20 | HDR unbiased | 19.635 | 19.135 | -0.5007 |
| 324 | 20 | HDR unbiased | 20.739 | 19.756 | -0.9829 |
| 325 | 20 | HDR unbiased | 19.068 | 20.015 | 0.9467 |
| 331 | 30 | HDR unbiased | 19.335 | 19.836 | 0.5008 |
| 332 | 30 | HDR unbiased | 19.46 | 20.175 | 0.7152 |
| 333 | 30 | HDR unbiased | 19.779 | 19.275 | -0.504 |
| 334 | 30 | HDR unbiased | 21.062 | 20.109 | -0.9524 |
| 335 | 30 | HDR unbiased | 20.823 | 19.983 | -0.8405 |
| 351 | 50 | HDR unbiased | 19.325 | 19.399 | 0.074 |
| 352 | 50 | HDR unbiased | 21.109 | 18.98 | -2.1298 |
| 353 | 50 | HDR unbiased | 20.58 | 19.541 | -1.0383 |
| 354 | 50 | HDR unbiased | 18.936 | 19.991 | 1.0551 |
| 355 | 50 | HDR unbiased | 21.112 | 18.434 | -2.6786 |
| 521 | 20 | HDR biased | 20.612 | 18.629 | -1.983 |
| 522 | 20 | HDR biased | 20.532 | 19.63 | -0.9024 |
| 523 | 20 | HDR biased | 19.468 | 18.949 | -0.5192 |
| 524 | 20 | HDR biased | 18.907 | 19.388 | 0.4808 |
| 525 | 20 | HDR biased | 20.349 | 18.951 | -1.3973 |
| 531 | 30 | HDR biased | 19.158 | 19.916 | 0.758 |
| 532 | 30 | HDR biased | 19.738 | 19.044 | -0.6936 |
| 533 | 30 | HDR biased | 20.663 | 20.038 | -0.6249 |
| 534 | 30 | HDR biased | 20.461 | 18.639 | -1.8226 |
| 535 | 30 | HDR biased | 20.958 | 18.476 | -2.4814 |
| 551 | 50 | HDR biased | 20.897 | 19.363 | -1.5343 |
| 552 | 50 | HDR biased | 19.5 | 19.758 | 0.2583 |
| 553 | 50 | HDR biased | 20.291 | 18.228 | -2.0628 |
| 554 | 50 | HDR biased | 19.154 | 19.262 | 0.1079 |
| 555 | 50 | HDR biased | 19.121 | 18.418 | -0.7028 |

TID vs Post - Pre Exposure Delta

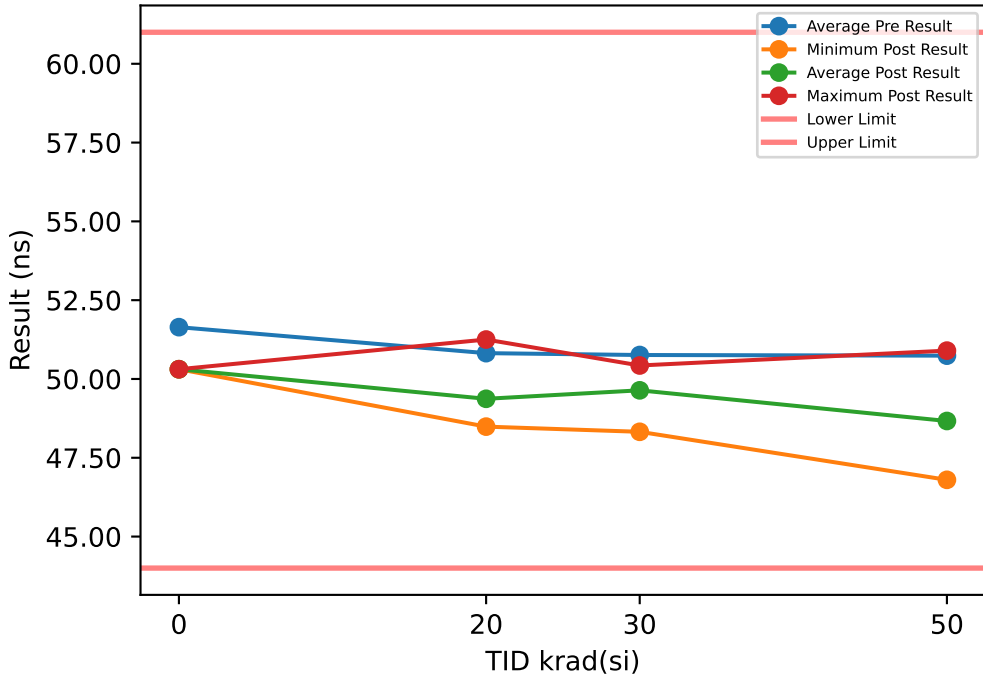


Test Statistics (ns)

| 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 | 19.503 | 19.503 | 19.503 | | 20.189 | 20.189 | 20.189 | | 0.6862 | 0.6862 | 0.6862 | |
| 20 | 18.907 | 20.135 | 21.164 | 0.79933 | 18.629 | 19.308 | 20.015 | 0.41891 | -1.983 | -0.82694 | 0.9467 | 0.96011 |
| 30 | 19.158 | 20.144 | 21.062 | 0.72485 | 18.476 | 19.549 | 20.175 | 0.63761 | -2.4814 | -0.59454 | 0.758 | 1.0552 |
| 50 | 18.936 | 20.002 | 21.112 | 0.88333 | 18.228 | 19.137 | 19.991 | 0.6033 | -2.6786 | -0.86513 | 1.0551 | 1.2295 |

Device Test: 95.32 T_RHL_LARGE(_DHL Dead Time Large 2MHz VIN_10V)

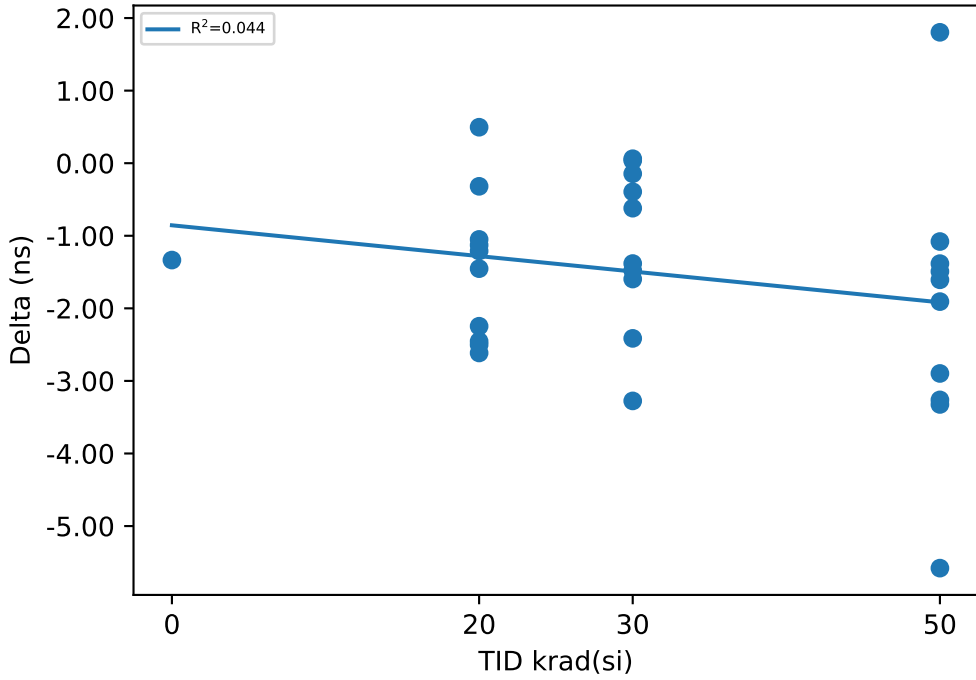
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 51.644 | 50.309 | -1.3347 |
| 321 | 20 | HDR unbiased | 51.954 | 49.5 | -2.4543 |
| 322 | 20 | HDR unbiased | 52.053 | 49.551 | -2.5015 |
| 323 | 20 | HDR unbiased | 49.574 | 48.523 | -1.0501 |
| 324 | 20 | HDR unbiased | 51.876 | 50.667 | -1.2097 |
| 325 | 20 | HDR unbiased | 50.756 | 51.251 | 0.4957 |
| 331 | 30 | HDR unbiased | 49.78 | 49.635 | -0.1449 |
| 332 | 30 | HDR unbiased | 50.122 | 50.183 | 0.0616 |
| 333 | 30 | HDR unbiased | 50.699 | 49.317 | -1.3826 |
| 334 | 30 | HDR unbiased | 51.618 | 50.14 | -1.4783 |
| 335 | 30 | HDR unbiased | 52.024 | 50.428 | -1.5963 |
| 351 | 50 | HDR unbiased | 50.653 | 49.162 | -1.4913 |
| 352 | 50 | HDR unbiased | 52.616 | 49.355 | -3.2615 |
| 353 | 50 | HDR unbiased | 51.476 | 49.569 | -1.9072 |
| 354 | 50 | HDR unbiased | 49.096 | 50.9 | 1.8035 |
| 355 | 50 | HDR unbiased | 53.163 | 47.584 | -5.5797 |
| 521 | 20 | HDR biased | 51.111 | 48.497 | -2.6148 |
| 522 | 20 | HDR biased | 50.007 | 48.554 | -1.4531 |
| 523 | 20 | HDR biased | 49.617 | 48.488 | -1.1286 |
| 524 | 20 | HDR biased | 50.007 | 49.689 | -0.3186 |
| 525 | 20 | HDR biased | 51.236 | 48.99 | -2.2464 |
| 531 | 30 | HDR biased | 49.69 | 49.726 | 0.0367 |
| 532 | 30 | HDR biased | 50.217 | 49.824 | -0.3935 |
| 533 | 30 | HDR biased | 50.735 | 50.115 | -0.6199 |
| 534 | 30 | HDR biased | 51.119 | 48.706 | -2.4137 |
| 535 | 30 | HDR biased | 51.599 | 48.324 | -3.2755 |
| 551 | 50 | HDR biased | 50.648 | 47.751 | -2.8972 |
| 552 | 50 | HDR biased | 49.567 | 48.487 | -1.0794 |
| 553 | 50 | HDR biased | 50.124 | 46.8 | -3.3241 |
| 554 | 50 | HDR biased | 50.213 | 48.829 | -1.3839 |
| 555 | 50 | HDR biased | 49.841 | 48.234 | -1.6066 |

TID vs Post - Pre Exposure Delta

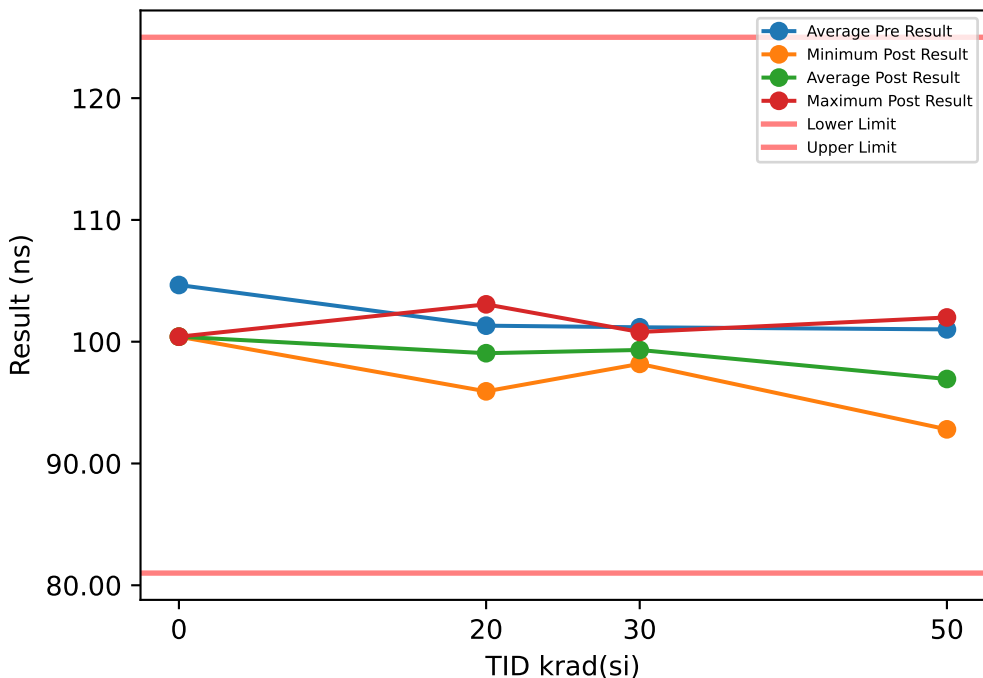


Test Statistics (ns)

| 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 | 51.644 | 51.644 | 51.644 | | 50.309 | 50.309 | 50.309 | | -1.3347 | -1.3347 | -1.3347 | |
| 20 | 49.574 | 50.819 | 52.053 | 0.97235 | 48.488 | 49.371 | 51.251 | 0.96842 | -2.6148 | -1.4481 | 0.4957 | 1.027 |
| 30 | 49.69 | 50.76 | 52.024 | 0.81515 | 48.324 | 49.64 | 50.428 | 0.67844 | -3.2755 | -1.1206 | 0.0616 | 1.1159 |
| 50 | 49.096 | 50.74 | 53.163 | 1.3121 | 46.8 | 48.667 | 50.9 | 1.1671 | -5.5797 | -2.0727 | 1.8035 | 1.9156 |

Device Test: 95.33 T_RHL_MAX(_DHL Dead Time Max 2MHz VIN_10V)

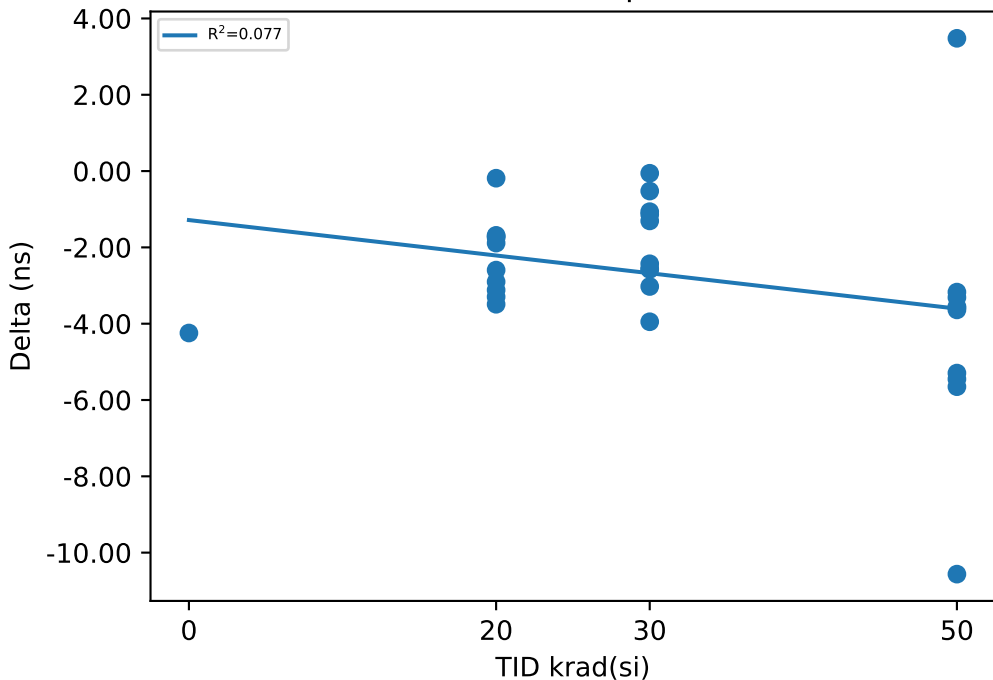
TID vs Result Stats



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 104.66 | 100.41 | -4.2439 |
| 321 | 20 | HDR unbiased | 102.54 | 99.641 | -2.9004 |
| 322 | 20 | HDR unbiased | 103.68 | 100.19 | -3.4906 |
| 323 | 20 | HDR unbiased | 99.031 | 97.143 | -1.8875 |
| 324 | 20 | HDR unbiased | 103.03 | 101.29 | -1.7456 |
| 325 | 20 | HDR unbiased | 103.25 | 103.07 | -0.1866 |
| 331 | 30 | HDR unbiased | 99.675 | 98.369 | -1.306 |
| 332 | 30 | HDR unbiased | 100.66 | 99.517 | -1.1381 |
| 333 | 30 | HDR unbiased | 101.67 | 99.242 | -2.4297 |
| 334 | 30 | HDR unbiased | 102.19 | 99.613 | -2.576 |
| 335 | 30 | HDR unbiased | 102.68 | 100.12 | -2.5619 |
| 351 | 50 | HDR unbiased | 101.77 | 98.132 | -3.6382 |
| 352 | 50 | HDR unbiased | 104.81 | 99.519 | -5.2941 |
| 353 | 50 | HDR unbiased | 102.32 | 98.74 | -3.5825 |
| 354 | 50 | HDR unbiased | 98.511 | 101.99 | 3.4798 |
| 355 | 50 | HDR unbiased | 105.95 | 95.389 | -10.564 |
| 521 | 20 | HDR biased | 100.7 | 97.408 | -3.296 |
| 522 | 20 | HDR biased | 98.519 | 95.924 | -2.595 |
| 523 | 20 | HDR biased | 99.196 | 97.489 | -1.7075 |
| 524 | 20 | HDR biased | 101.04 | 99.359 | -1.6845 |
| 525 | 20 | HDR biased | 102.16 | 99.042 | -3.1175 |
| 531 | 30 | HDR biased | 99.957 | 98.894 | -1.0639 |
| 532 | 30 | HDR biased | 101.32 | 100.8 | -0.5235 |
| 533 | 30 | HDR biased | 100.31 | 100.26 | -0.0571 |
| 534 | 30 | HDR biased | 101.26 | 98.231 | -3.0247 |
| 535 | 30 | HDR biased | 102.13 | 98.18 | -3.949 |
| 551 | 50 | HDR biased | 99.086 | 93.635 | -5.4506 |
| 552 | 50 | HDR biased | 98.451 | 95.279 | -3.1717 |
| 553 | 50 | HDR biased | 98.454 | 92.803 | -5.6508 |
| 554 | 50 | HDR biased | 100.5 | 96.951 | -3.5516 |
| 555 | 50 | HDR biased | 100.25 | 96.942 | -3.3123 |

TID vs Post - Pre Exposure Delta

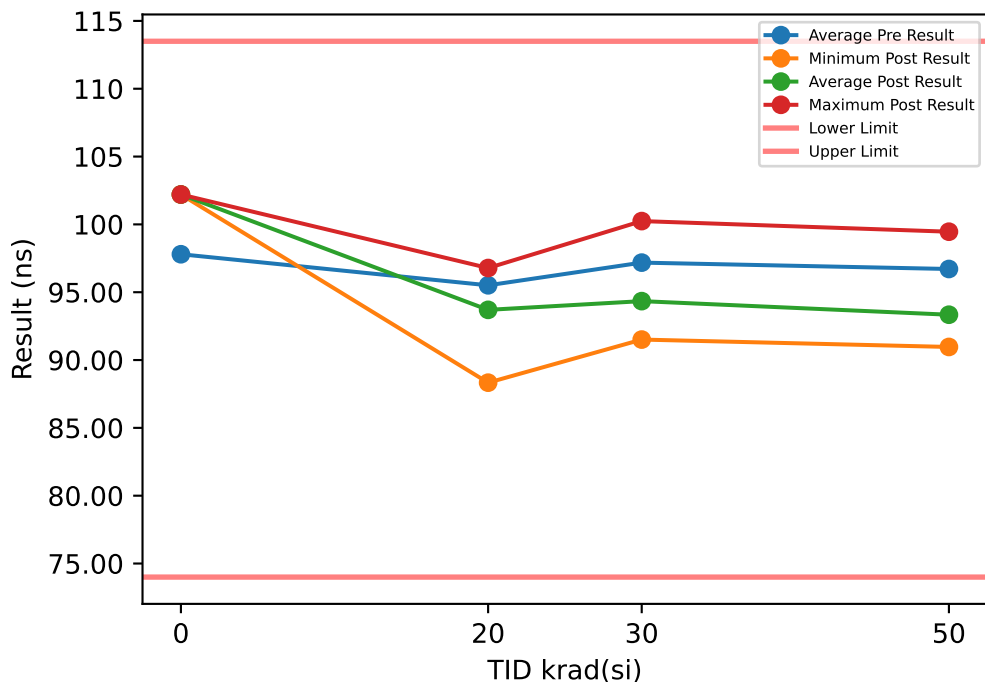


Test Statistics (ns)

| 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 | 104.66 | 104.66 | 104.66 | | 100.41 | 100.41 | 100.41 | | -4.2439 | -4.2439 | -4.2439 | |
| 20 | 98.519 | 101.32 | 103.68 | 1.9004 | 95.924 | 99.055 | 103.07 | 2.1457 | -3.4906 | -2.2611 | -0.1866 | 1.0102 |
| 30 | 99.675 | 101.19 | 102.68 | 1.0131 | 98.18 | 99.322 | 100.8 | 0.90712 | -3.949 | -1.863 | -0.0571 | 1.227 |
| 50 | 98.451 | 101.01 | 105.95 | 2.6884 | 92.803 | 96.938 | 101.99 | 2.7895 | -10.564 | -4.0736 | 3.4798 | 3.4503 |

Device Test: 95.4 T_RLH_MAX(_DLH Dead Time Max 500kHz VIN_10V)

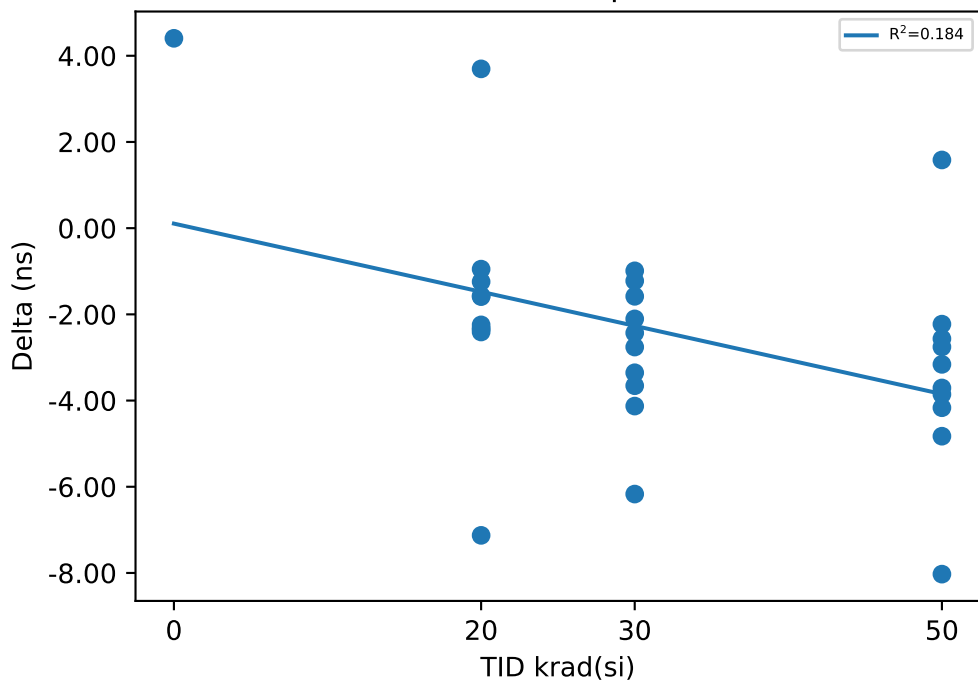
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 97.799 | 102.2 | 4.405 |
| 321 | 20 | HDR unbiased | 94.265 | 91.916 | -2.3481 |
| 322 | 20 | HDR unbiased | 96.524 | 94.115 | -2.4091 |
| 323 | 20 | HDR unbiased | 98.873 | 96.629 | -2.2442 |
| 324 | 20 | HDR unbiased | 96.232 | 94.662 | -1.5702 |
| 325 | 20 | HDR unbiased | 94.544 | 93.593 | -0.9505 |
| 331 | 30 | HDR unbiased | 94.514 | 93.291 | -1.223 |
| 332 | 30 | HDR unbiased | 101.83 | 100.24 | -1.5816 |
| 333 | 30 | HDR unbiased | 94.267 | 91.509 | -2.7584 |
| 334 | 30 | HDR unbiased | 95.392 | 93.287 | -2.1051 |
| 335 | 30 | HDR unbiased | 97.542 | 95.112 | -2.4303 |
| 351 | 50 | HDR unbiased | 93.722 | 95.304 | 1.5825 |
| 352 | 50 | HDR unbiased | 96.324 | 92.158 | -4.1663 |
| 353 | 50 | HDR unbiased | 98.992 | 90.965 | -8.0273 |
| 354 | 50 | HDR unbiased | 95.15 | 91.443 | -3.7076 |
| 355 | 50 | HDR unbiased | 95.361 | 91.505 | -3.8553 |
| 521 | 20 | HDR biased | 95.457 | 93.137 | -2.3201 |
| 522 | 20 | HDR biased | 98.026 | 96.784 | -1.2422 |
| 523 | 20 | HDR biased | 95.074 | 93.486 | -1.5884 |
| 524 | 20 | HDR biased | 90.644 | 94.34 | 3.6959 |
| 525 | 20 | HDR biased | 95.459 | 88.332 | -7.1276 |
| 531 | 30 | HDR biased | 97.784 | 93.656 | -4.128 |
| 532 | 30 | HDR biased | 95.842 | 92.487 | -3.3549 |
| 533 | 30 | HDR biased | 100.81 | 94.644 | -6.1695 |
| 534 | 30 | HDR biased | 97.705 | 94.049 | -3.6556 |
| 535 | 30 | HDR biased | 96.134 | 95.144 | -0.9899 |
| 551 | 50 | HDR biased | 96.088 | 93.332 | -2.7556 |
| 552 | 50 | HDR biased | 102.03 | 99.461 | -2.5652 |
| 553 | 50 | HDR biased | 96.156 | 91.329 | -4.8269 |
| 554 | 50 | HDR biased | 95.366 | 93.139 | -2.2269 |
| 555 | 50 | HDR biased | 97.936 | 94.776 | -3.16 |

TID vs Post - Pre Exposure Delta

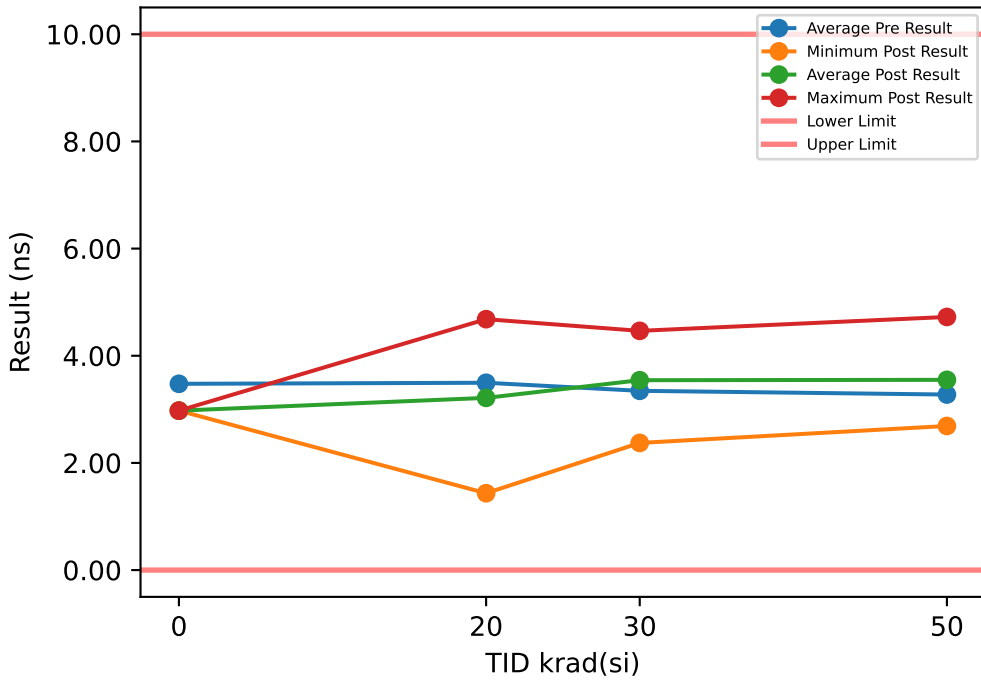


Test Statistics (ns)

| 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 | 97.799 | 97.799 | 97.799 | | 102.2 | 102.2 | 102.2 | | 4.405 | 4.405 | 4.405 | |
| 20 | 90.644 | 95.51 | 98.873 | 2.2495 | 88.332 | 93.699 | 96.784 | 2.4029 | -7.1276 | -1.8104 | 3.6959 | 2.6004 |
| 30 | 94.267 | 97.182 | 101.83 | 2.5215 | 91.509 | 94.342 | 100.24 | 2.3663 | -6.1695 | -2.8396 | -0.9899 | 1.5638 |
| 50 | 93.722 | 96.712 | 102.03 | 2.3759 | 90.965 | 93.341 | 99.461 | 2.6134 | -8.0273 | -3.3709 | 1.5825 | 2.3968 |

Device Test: 95.5 T_RLH_MIN(_DLH Dead Time Min 1MHz VIN_10V)

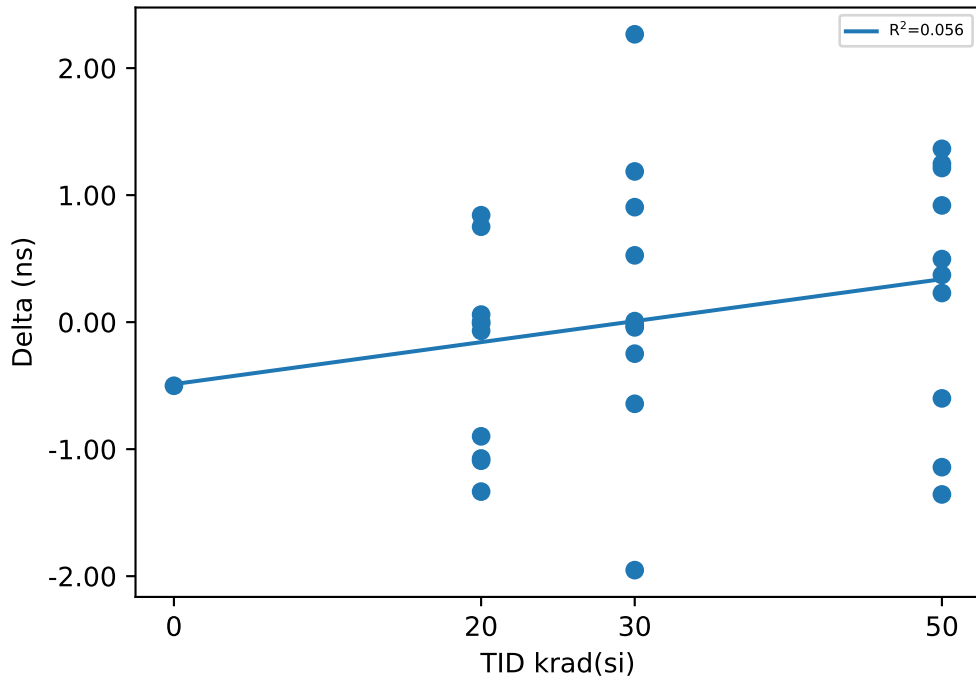
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.4763 | 2.9754 | -0.5009 |
| 321 | 20 | HDR unbiased | 4.4052 | 3.314 | -1.0912 |
| 322 | 20 | HDR unbiased | 3.5285 | 2.1943 | -1.3342 |
| 323 | 20 | HDR unbiased | 1.5032 | 1.4347 | -0.0685 |
| 324 | 20 | HDR unbiased | 3.46 | 3.5195 | 0.0595 |
| 325 | 20 | HDR unbiased | 2.8193 | 3.5706 | 0.7513 |
| 331 | 30 | HDR unbiased | 3.0919 | 4.2785 | 1.1866 |
| 332 | 30 | HDR unbiased | 1.9793 | 2.8845 | 0.9052 |
| 333 | 30 | HDR unbiased | 3.7828 | 3.5346 | -0.2482 |
| 334 | 30 | HDR unbiased | 3.8833 | 3.8568 | -0.0265 |
| 335 | 30 | HDR unbiased | 3.526 | 3.4848 | -0.0412 |
| 351 | 50 | HDR unbiased | 3.1799 | 3.5512 | 0.3713 |
| 352 | 50 | HDR unbiased | 3.8313 | 2.6894 | -1.1419 |
| 353 | 50 | HDR unbiased | 3.4775 | 4.7241 | 1.2466 |
| 354 | 50 | HDR unbiased | 2.7261 | 3.6452 | 0.9191 |
| 355 | 50 | HDR unbiased | 3.6473 | 3.047 | -0.6003 |
| 521 | 20 | HDR biased | 3.967 | 2.8935 | -1.0735 |
| 522 | 20 | HDR biased | 3.6655 | 3.6698 | 0.0043 |
| 523 | 20 | HDR biased | 3.1457 | 3.1346 | -0.0111 |
| 524 | 20 | HDR biased | 3.8407 | 4.6826 | 0.8419 |
| 525 | 20 | HDR biased | 4.6253 | 3.7262 | -0.8991 |
| 531 | 30 | HDR biased | 2.0082 | 4.2744 | 2.2662 |
| 532 | 30 | HDR biased | 3.2221 | 3.2302 | 0.0081 |
| 533 | 30 | HDR biased | 3.9388 | 4.4648 | 0.526 |
| 534 | 30 | HDR biased | 3.6982 | 3.0553 | -0.6429 |
| 535 | 30 | HDR biased | 4.3256 | 2.3731 | -1.9525 |
| 551 | 50 | HDR biased | 3.6919 | 4.1884 | 0.4965 |
| 552 | 50 | HDR biased | 2.3504 | 3.715 | 1.3646 |
| 553 | 50 | HDR biased | 4.2973 | 2.9408 | -1.3565 |
| 554 | 50 | HDR biased | 2.9798 | 4.1933 | 1.2135 |
| 555 | 50 | HDR biased | 2.5809 | 2.8101 | 0.2292 |

TID vs Post - Pre Exposure Delta

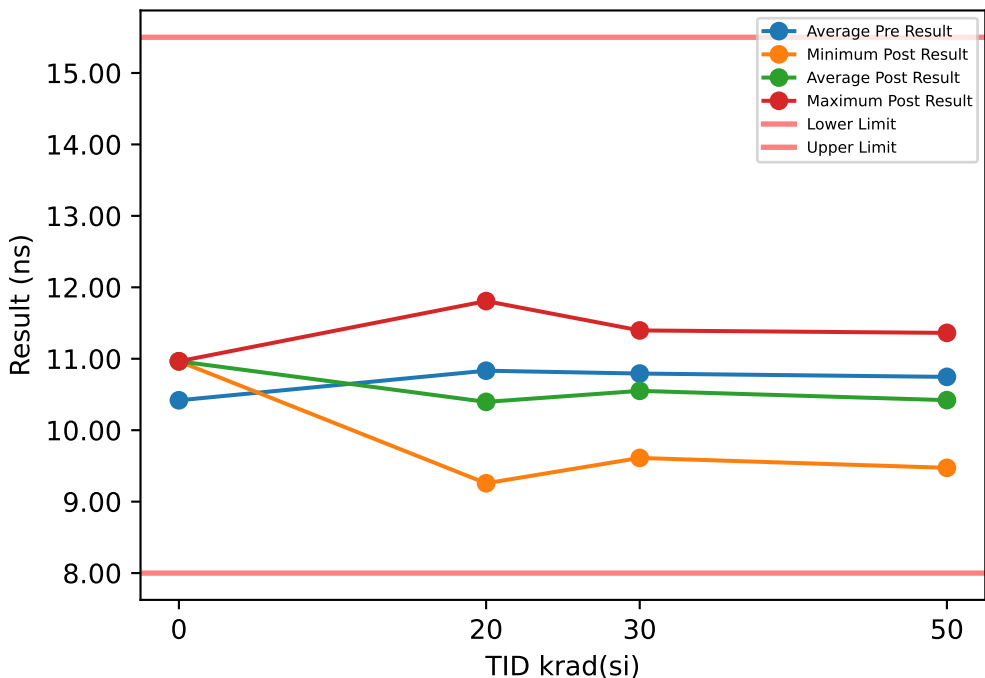


Test Statistics (ns)

| 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 | 3.4763 | 3.4763 | 3.4763 | | 2.9754 | 2.9754 | 2.9754 | | -0.5009 | -0.5009 | -0.5009 | |
| 20 | 1.5032 | 3.496 | 4.6253 | 0.88353 | 1.4347 | 3.214 | 4.6826 | 0.89269 | -1.3342 | -0.28206 | 0.8419 | 0.77586 |
| 30 | 1.9793 | 3.3456 | 4.3256 | 0.79474 | 2.3731 | 3.5437 | 4.4648 | 0.68032 | -1.9525 | 0.19808 | 2.2662 | 1.1322 |
| 50 | 2.3504 | 3.2762 | 4.2973 | 0.61843 | 2.6894 | 3.5505 | 4.7241 | 0.67892 | -1.3565 | 0.27421 | 1.3646 | 0.99571 |

Device Test: 95.6 T_RLH_SMALL(_DLH Dead Time Small 1MHz VIN_10V)

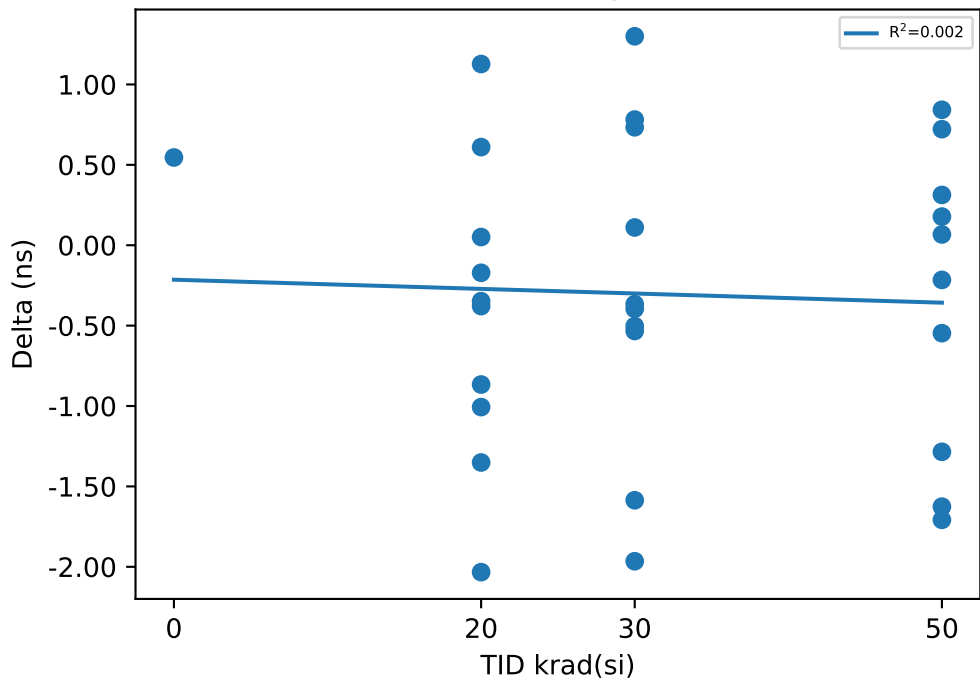
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.419 | 10.964 | 0.5458 |
| 321 | 20 | HDR unbiased | 11.525 | 10.659 | -0.8662 |
| 322 | 20 | HDR unbiased | 10.85 | 9.4986 | -1.3512 |
| 323 | 20 | HDR unbiased | 9.2062 | 9.2572 | 0.051 |
| 324 | 20 | HDR unbiased | 10.925 | 10.754 | -0.1713 |
| 325 | 20 | HDR unbiased | 9.931 | 10.541 | 0.6104 |
| 331 | 30 | HDR unbiased | 10.348 | 11.081 | 0.7337 |
| 332 | 30 | HDR unbiased | 9.7592 | 10.541 | 0.7817 |
| 333 | 30 | HDR unbiased | 10.933 | 10.43 | -0.5027 |
| 334 | 30 | HDR unbiased | 11.192 | 10.825 | -0.3666 |
| 335 | 30 | HDR unbiased | 11.038 | 10.505 | -0.5333 |
| 351 | 50 | HDR unbiased | 10.544 | 10.611 | 0.0672 |
| 352 | 50 | HDR unbiased | 11.181 | 9.4732 | -1.7077 |
| 353 | 50 | HDR unbiased | 11.184 | 11.362 | 0.1781 |
| 354 | 50 | HDR unbiased | 10.102 | 10.415 | 0.3128 |
| 355 | 50 | HDR unbiased | 10.848 | 9.5637 | -1.2848 |
| 521 | 20 | HDR biased | 11.303 | 10.296 | -1.0066 |
| 522 | 20 | HDR biased | 11.292 | 10.944 | -0.3479 |
| 523 | 20 | HDR biased | 10.653 | 10.275 | -0.3785 |
| 524 | 20 | HDR biased | 10.68 | 11.807 | 1.127 |
| 525 | 20 | HDR biased | 11.962 | 9.929 | -2.0331 |
| 531 | 30 | HDR biased | 9.878 | 11.177 | 1.2994 |
| 532 | 30 | HDR biased | 10.557 | 10.162 | -0.3953 |
| 533 | 30 | HDR biased | 11.286 | 11.396 | 0.1105 |
| 534 | 30 | HDR biased | 11.362 | 9.7764 | -1.586 |
| 535 | 30 | HDR biased | 11.577 | 9.6117 | -1.9654 |
| 551 | 50 | HDR biased | 11.24 | 11.024 | -0.2156 |
| 552 | 50 | HDR biased | 10.165 | 11.008 | 0.8425 |
| 553 | 50 | HDR biased | 11.383 | 9.7571 | -1.6259 |
| 554 | 50 | HDR biased | 10.47 | 11.192 | 0.7218 |
| 555 | 50 | HDR biased | 10.345 | 9.7982 | -0.5469 |

TID vs Post - Pre Exposure Delta

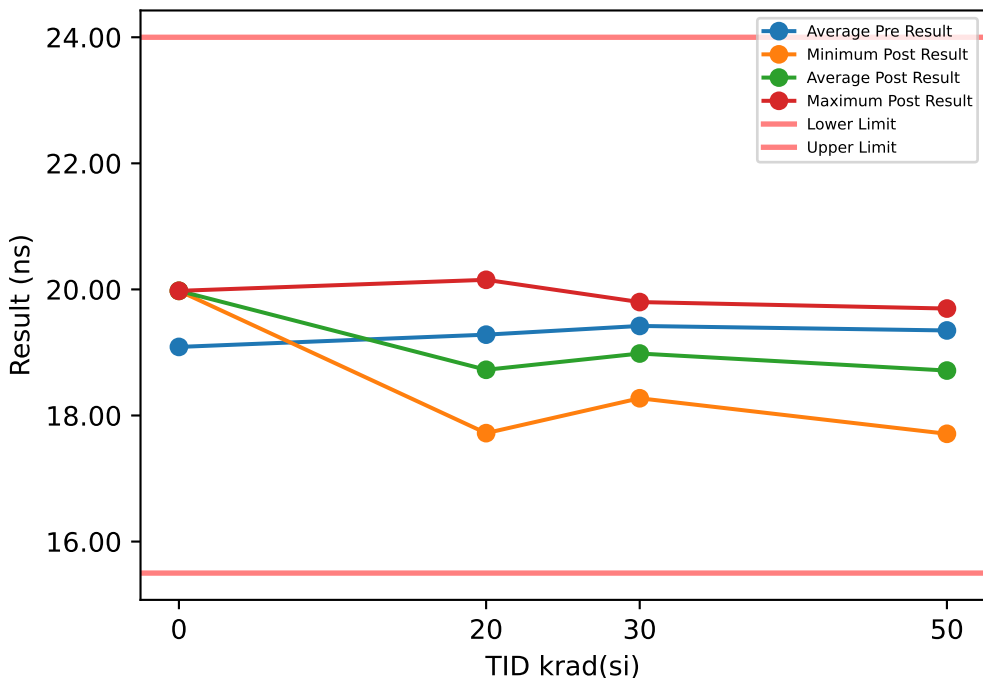


Test Statistics (ns)

| 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 | 10.419 | 10.419 | 10.419 | | 10.964 | 10.964 | 10.964 | | 0.5458 | 0.5458 | 0.5458 | |
| 20 | 9.2062 | 10.833 | 11.962 | 0.79649 | 9.2572 | 10.396 | 11.807 | 0.73448 | -2.0331 | -0.43664 | 1.127 | 0.92827 |
| 30 | 9.7592 | 10.793 | 11.577 | 0.63072 | 9.6117 | 10.551 | 11.396 | 0.5882 | -1.9654 | -0.2424 | 1.2994 | 1.0257 |
| 50 | 10.102 | 10.746 | 11.383 | 0.47955 | 9.4732 | 10.42 | 11.362 | 0.72159 | -1.7077 | -0.32585 | 0.8425 | 0.93447 |

Device Test: 95.7 T_RLH_MID(_DLH Dead Time Mid 1MHz VIN_10V)

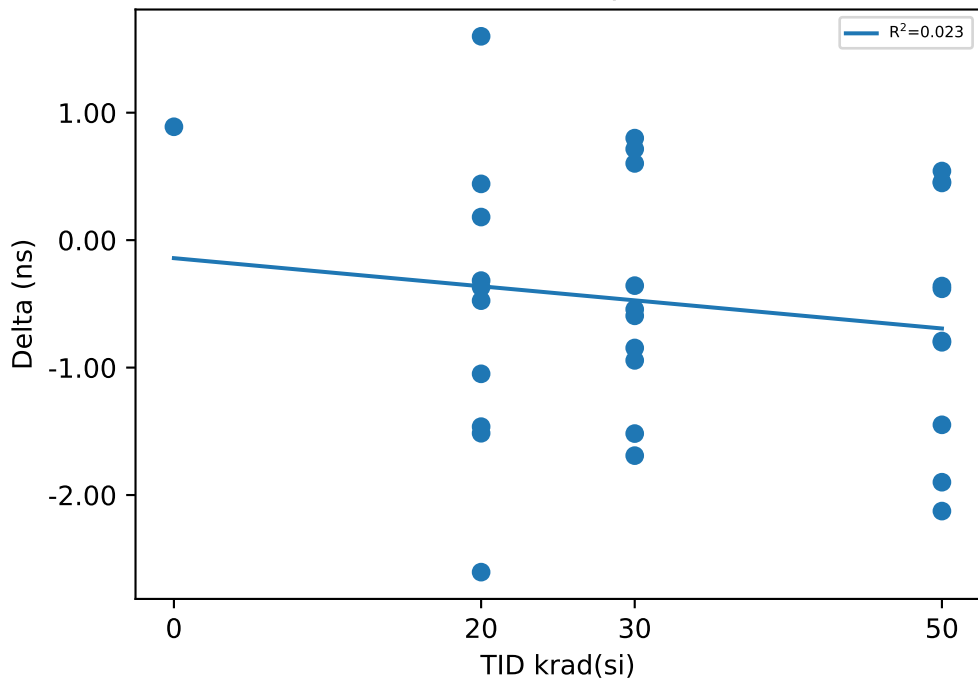
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.088 | 19.977 | 0.8895 |
| 321 | 20 | HDR unbiased | 20.032 | 18.517 | -1.5152 |
| 322 | 20 | HDR unbiased | 19.42 | 18.371 | -1.0489 |
| 323 | 20 | HDR unbiased | 18.089 | 17.72 | -0.3693 |
| 324 | 20 | HDR unbiased | 19.551 | 19.234 | -0.3175 |
| 325 | 20 | HDR unbiased | 18.268 | 18.709 | 0.4414 |
| 331 | 30 | HDR unbiased | 18.616 | 19.417 | 0.8004 |
| 332 | 30 | HDR unbiased | 18.922 | 19.524 | 0.6019 |
| 333 | 30 | HDR unbiased | 19.018 | 18.424 | -0.5938 |
| 334 | 30 | HDR unbiased | 19.526 | 18.983 | -0.5429 |
| 335 | 30 | HDR unbiased | 19.858 | 19.012 | -0.846 |
| 351 | 50 | HDR unbiased | 18.637 | 19.179 | 0.5422 |
| 352 | 50 | HDR unbiased | 19.609 | 17.709 | -1.8993 |
| 353 | 50 | HDR unbiased | 20.061 | 19.269 | -0.7913 |
| 354 | 50 | HDR unbiased | 18.805 | 18.445 | -0.3603 |
| 355 | 50 | HDR unbiased | 19.391 | 17.942 | -1.449 |
| 521 | 20 | HDR biased | 19.657 | 18.194 | -1.4634 |
| 522 | 20 | HDR biased | 19.89 | 19.415 | -0.4748 |
| 523 | 20 | HDR biased | 18.855 | 19.037 | 0.1812 |
| 524 | 20 | HDR biased | 18.553 | 20.152 | 1.5993 |
| 525 | 20 | HDR biased | 20.507 | 17.902 | -2.6049 |
| 531 | 30 | HDR biased | 18.777 | 19.492 | 0.715 |
| 532 | 30 | HDR biased | 19.217 | 18.273 | -0.9434 |
| 533 | 30 | HDR biased | 20.156 | 19.799 | -0.3569 |
| 534 | 30 | HDR biased | 20.033 | 18.342 | -1.6908 |
| 535 | 30 | HDR biased | 20.081 | 18.563 | -1.5177 |
| 551 | 50 | HDR biased | 19.655 | 19.273 | -0.3818 |
| 552 | 50 | HDR biased | 19.248 | 19.697 | 0.4488 |
| 553 | 50 | HDR biased | 19.88 | 17.754 | -2.1259 |
| 554 | 50 | HDR biased | 18.992 | 19.449 | 0.4569 |
| 555 | 50 | HDR biased | 19.214 | 18.413 | -0.8015 |

TID vs Post - Pre Exposure Delta

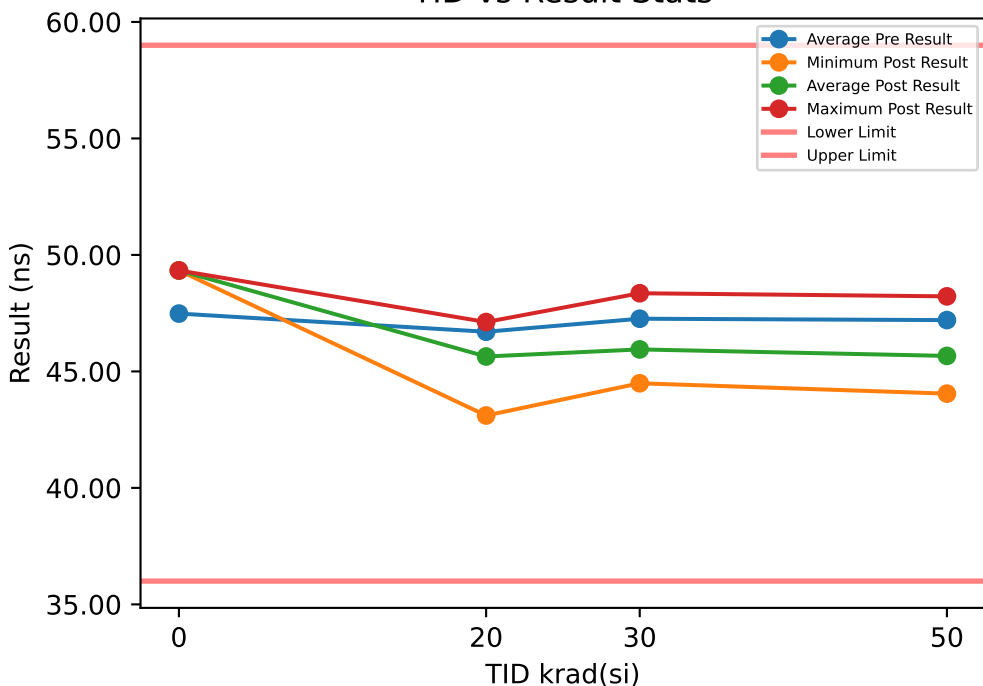


Test Statistics (ns)

| 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 | 19.088 | 19.088 | 19.088 | | 19.977 | 19.977 | 19.977 | | 0.8895 | 0.8895 | 0.8895 | |
| 20 | 18.089 | 19.282 | 20.507 | 0.80482 | 17.72 | 18.725 | 20.152 | 0.74594 | -2.6049 | -0.55721 | 1.5993 | 1.1769 |
| 30 | 18.616 | 19.42 | 20.156 | 0.58371 | 18.273 | 18.983 | 19.799 | 0.55886 | -1.6908 | -0.43742 | 0.8004 | 0.89091 |
| 50 | 18.637 | 19.349 | 20.061 | 0.46068 | 17.709 | 18.713 | 19.697 | 0.74776 | -2.1259 | -0.63612 | 0.5422 | 0.96771 |

Device Test: 95.8 T_RLH_LARGE(_DLH Dead Time Large 1MHz VIN_10V)

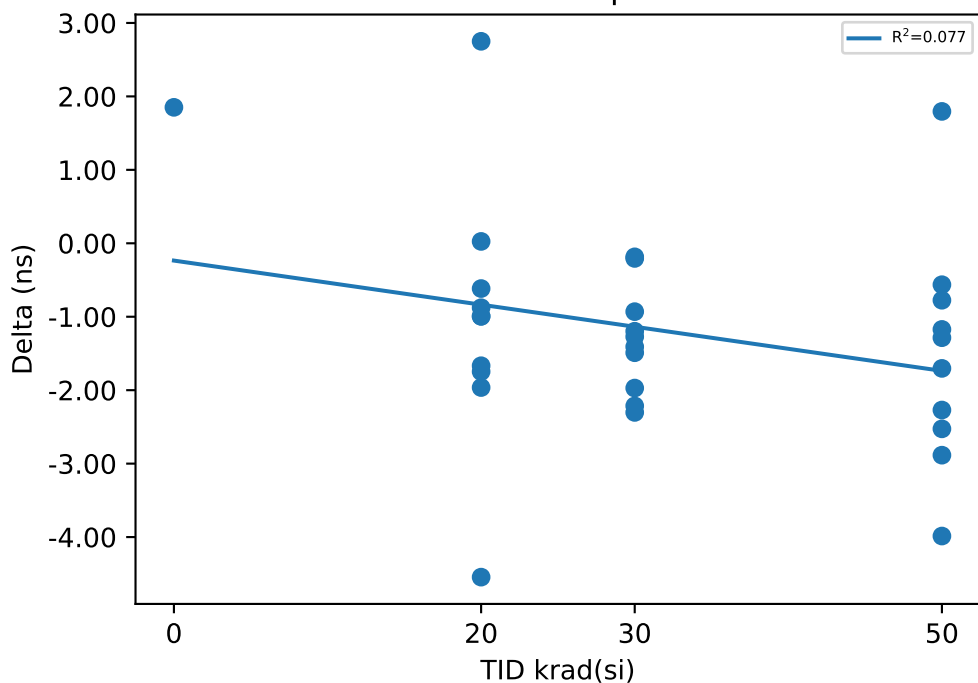
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 47.482 | 49.334 | 1.8511 |
| 321 | 20 | HDR unbiased | 46.99 | 45.323 | -1.6673 |
| 322 | 20 | HDR unbiased | 47.058 | 45.311 | -1.7465 |
| 323 | 20 | HDR unbiased | 47.102 | 46.107 | -0.9948 |
| 324 | 20 | HDR unbiased | 47.242 | 46.365 | -0.8773 |
| 325 | 20 | HDR unbiased | 45.529 | 45.554 | 0.0255 |
| 331 | 30 | HDR unbiased | 46.032 | 45.826 | -0.2061 |
| 332 | 30 | HDR unbiased | 48.54 | 48.355 | -0.1845 |
| 333 | 30 | HDR unbiased | 45.981 | 44.491 | -1.49 |
| 334 | 30 | HDR unbiased | 46.781 | 45.583 | -1.1973 |
| 335 | 30 | HDR unbiased | 47.318 | 46.047 | -1.2714 |
| 351 | 50 | HDR unbiased | 45.349 | 47.145 | 1.7957 |
| 352 | 50 | HDR unbiased | 47.473 | 44.946 | -2.5264 |
| 353 | 50 | HDR unbiased | 48.811 | 44.825 | -3.9859 |
| 354 | 50 | HDR unbiased | 46.444 | 44.741 | -1.7033 |
| 355 | 50 | HDR unbiased | 46.725 | 44.455 | -2.2702 |
| 521 | 20 | HDR biased | 47.047 | 45.083 | -1.9639 |
| 522 | 20 | HDR biased | 47.736 | 47.119 | -0.6162 |
| 523 | 20 | HDR biased | 46.51 | 45.518 | -0.9921 |
| 524 | 20 | HDR biased | 44.163 | 46.913 | 2.7501 |
| 525 | 20 | HDR biased | 47.653 | 43.107 | -4.5455 |
| 531 | 30 | HDR biased | 46.918 | 45.987 | -0.9308 |
| 532 | 30 | HDR biased | 46.932 | 44.718 | -2.2142 |
| 533 | 30 | HDR biased | 48.76 | 46.789 | -1.9711 |
| 534 | 30 | HDR biased | 48.114 | 45.811 | -2.3028 |
| 535 | 30 | HDR biased | 47.242 | 45.833 | -1.4089 |
| 551 | 50 | HDR biased | 47.18 | 45.895 | -1.2854 |
| 552 | 50 | HDR biased | 48.998 | 48.222 | -0.7754 |
| 553 | 50 | HDR biased | 46.932 | 44.047 | -2.885 |
| 554 | 50 | HDR biased | 46.494 | 45.93 | -0.5639 |
| 555 | 50 | HDR biased | 47.622 | 46.449 | -1.1727 |

TID vs Post - Pre Exposure Delta

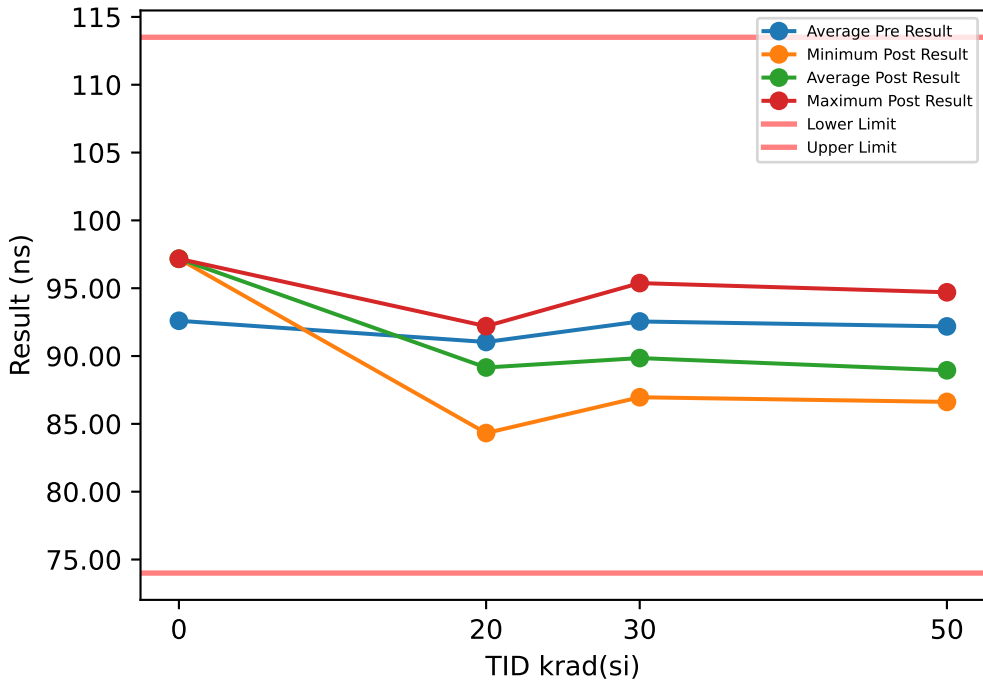


Test Statistics (ns)

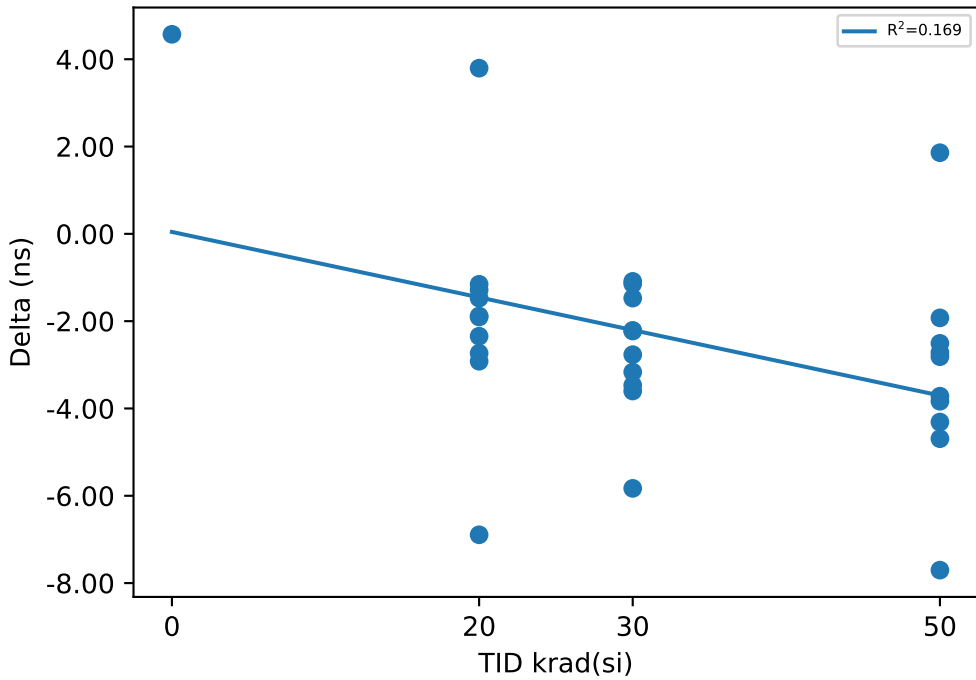
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 47.482 | 47.482 | 47.482 | | 49.334 | 49.334 | 49.334 | | 1.8511 | 1.8511 | 1.8511 | |
| 20 | 44.163 | 46.703 | 47.736 | 1.0858 | 43.107 | 45.64 | 47.119 | 1.1308 | -4.5455 | -1.0628 | 2.7501 | 1.8178 |
| 30 | 45.981 | 47.262 | 48.76 | 0.95566 | 44.491 | 45.944 | 48.355 | 1.0713 | -2.3028 | -1.3177 | -0.1845 | 0.73976 |
| 50 | 45.349 | 47.203 | 48.998 | 1.0991 | 44.047 | 45.666 | 48.222 | 1.3177 | -3.9859 | -1.5373 | 1.7957 | 1.5701 |

Device Test: 95.9 T_RLH_MAX(_DLH Dead Time Max 1MHz VIN_10V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

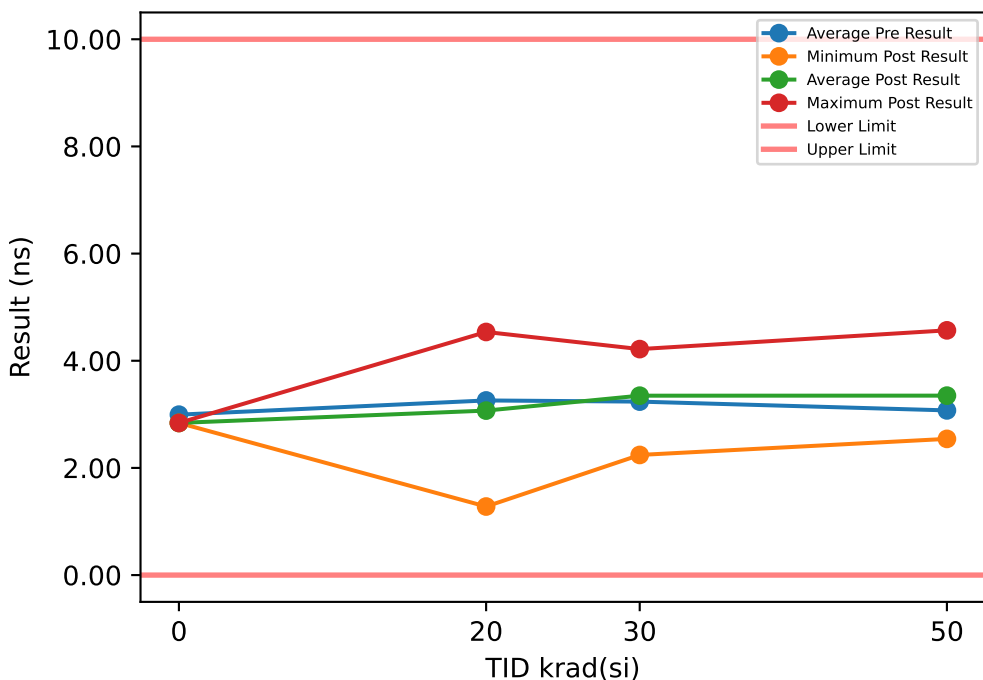
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 92.599 | 97.17 | 4.5708 |
| 321 | 20 | HDR unbiased | 90.109 | 87.374 | -2.7347 |
| 322 | 20 | HDR unbiased | 91.936 | 89.591 | -2.3451 |
| 323 | 20 | HDR unbiased | 93.795 | 91.891 | -1.9041 |
| 324 | 20 | HDR unbiased | 91.559 | 90.086 | -1.4727 |
| 325 | 20 | HDR unbiased | 90.242 | 89.086 | -1.1555 |
| 331 | 30 | HDR unbiased | 89.83 | 88.741 | -1.0887 |
| 332 | 30 | HDR unbiased | 96.85 | 95.378 | -1.472 |
| 333 | 30 | HDR unbiased | 89.729 | 86.961 | -2.7677 |
| 334 | 30 | HDR unbiased | 91.019 | 88.793 | -2.2262 |
| 335 | 30 | HDR unbiased | 92.791 | 90.579 | -2.2121 |
| 351 | 50 | HDR unbiased | 89.119 | 90.978 | 1.8583 |
| 352 | 50 | HDR unbiased | 92.066 | 87.755 | -4.311 |
| 353 | 50 | HDR unbiased | 94.323 | 86.619 | -7.7033 |
| 354 | 50 | HDR unbiased | 90.698 | 86.98 | -3.7188 |
| 355 | 50 | HDR unbiased | 91.089 | 87.254 | -3.8348 |
| 521 | 20 | HDR biased | 91.291 | 88.373 | -2.9179 |
| 522 | 20 | HDR biased | 93.489 | 92.201 | -1.2882 |
| 523 | 20 | HDR biased | 90.644 | 88.762 | -1.8821 |
| 524 | 20 | HDR biased | 86.07 | 89.865 | 3.7951 |
| 525 | 20 | HDR biased | 91.216 | 84.322 | -6.8939 |
| 531 | 30 | HDR biased | 92.851 | 89.381 | -3.4705 |
| 532 | 30 | HDR biased | 91.298 | 88.132 | -3.166 |
| 533 | 30 | HDR biased | 96.128 | 90.298 | -5.8302 |
| 534 | 30 | HDR biased | 93.236 | 89.636 | -3.6007 |
| 535 | 30 | HDR biased | 91.757 | 90.612 | -1.1452 |
| 551 | 50 | HDR biased | 91.829 | 89.113 | -2.7155 |
| 552 | 50 | HDR biased | 97.207 | 94.699 | -2.5082 |
| 553 | 50 | HDR biased | 91.649 | 86.957 | -4.6923 |
| 554 | 50 | HDR biased | 90.711 | 88.786 | -1.9249 |
| 555 | 50 | HDR biased | 93.151 | 90.337 | -2.8138 |

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 | 92.599 | 92.599 | 92.599 | | 97.17 | 97.17 | 97.17 | | 4.5708 | 4.5708 | 4.5708 | |
| 20 | 86.07 | 91.035 | 93.795 | 2.1375 | 84.322 | 89.155 | 92.201 | 2.2515 | -6.8939 | -1.8799 | 3.7951 | 2.5908 |
| 30 | 89.729 | 92.549 | 96.85 | 2.3992 | 86.961 | 89.851 | 95.378 | 2.2553 | -5.8302 | -2.6979 | -1.0887 | 1.4302 |
| 50 | 89.119 | 92.184 | 97.207 | 2.2641 | 86.619 | 88.948 | 94.699 | 2.5107 | -7.7033 | -3.2364 | 1.8583 | 2.4146 |

Device Test: 96.0 T_RLH_MIN(_DLH Dead Time Min 500kHz VIN_12V)

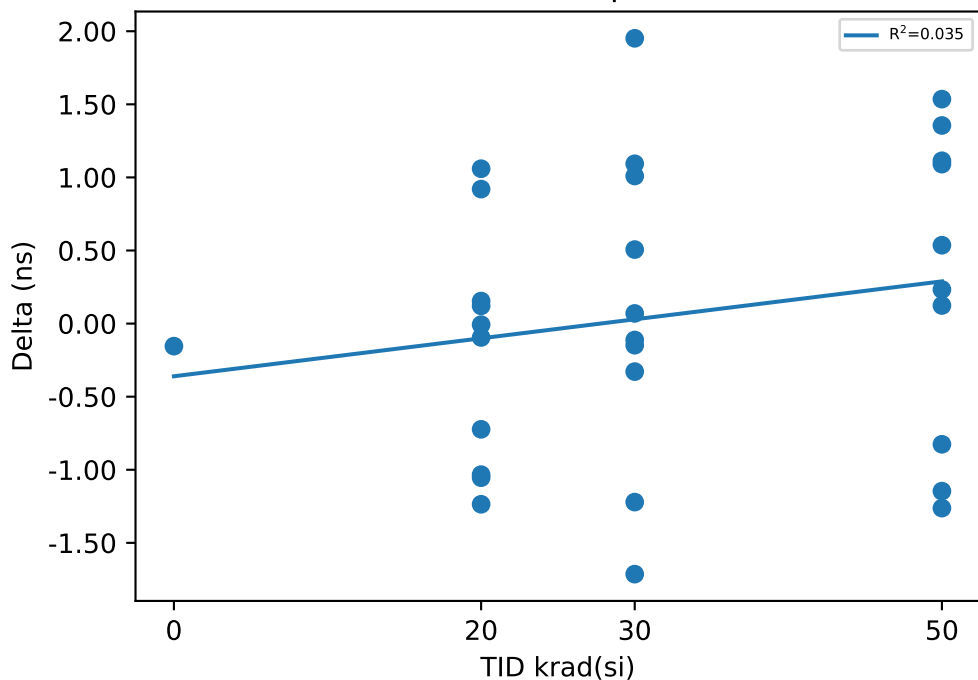
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.994 | 2.8397 | -0.1543 |
| 321 | 20 | HDR unbiased | 4.1456 | 3.1122 | -1.0334 |
| 322 | 20 | HDR unbiased | 3.1697 | 2.4465 | -0.7232 |
| 323 | 20 | HDR unbiased | 1.2868 | 1.2795 | -0.0073 |
| 324 | 20 | HDR unbiased | 3.4628 | 3.3679 | -0.0949 |
| 325 | 20 | HDR unbiased | 2.4736 | 3.3937 | 0.9201 |
| 331 | 30 | HDR unbiased | 3.0825 | 4.1758 | 1.0933 |
| 332 | 30 | HDR unbiased | 1.7446 | 2.7542 | 1.0096 |
| 333 | 30 | HDR unbiased | 3.8093 | 3.4809 | -0.3284 |
| 334 | 30 | HDR unbiased | 3.8811 | 3.7332 | -0.1479 |
| 335 | 30 | HDR unbiased | 3.356 | 3.2439 | -0.1121 |
| 351 | 50 | HDR unbiased | 3.1664 | 3.3995 | 0.2331 |
| 352 | 50 | HDR unbiased | 3.6881 | 2.5419 | -1.1462 |
| 353 | 50 | HDR unbiased | 3.2122 | 4.5676 | 1.3554 |
| 354 | 50 | HDR unbiased | 2.3414 | 3.4322 | 1.0908 |
| 355 | 50 | HDR unbiased | 3.3962 | 2.5705 | -0.8257 |
| 521 | 20 | HDR biased | 3.7628 | 2.7086 | -1.0542 |
| 522 | 20 | HDR biased | 3.3891 | 3.5433 | 0.1542 |
| 523 | 20 | HDR biased | 2.8933 | 3.0144 | 0.1211 |
| 524 | 20 | HDR biased | 3.4776 | 4.5371 | 1.0595 |
| 525 | 20 | HDR biased | 4.5303 | 3.2942 | -1.2361 |
| 531 | 30 | HDR biased | 2.1044 | 4.056 | 1.9516 |
| 532 | 30 | HDR biased | 3.0425 | 3.112 | 0.0695 |
| 533 | 30 | HDR biased | 3.7112 | 4.2175 | 0.5063 |
| 534 | 30 | HDR biased | 3.6874 | 2.4662 | -1.2212 |
| 535 | 30 | HDR biased | 3.9561 | 2.2421 | -1.714 |
| 551 | 50 | HDR biased | 3.5092 | 4.0453 | 0.5361 |
| 552 | 50 | HDR biased | 1.974 | 3.5095 | 1.5355 |
| 553 | 50 | HDR biased | 4.0636 | 2.8012 | -1.2624 |
| 554 | 50 | HDR biased | 2.941 | 4.0548 | 1.1138 |
| 555 | 50 | HDR biased | 2.4446 | 2.5684 | 0.1238 |

TID vs Post - Pre Exposure Delta

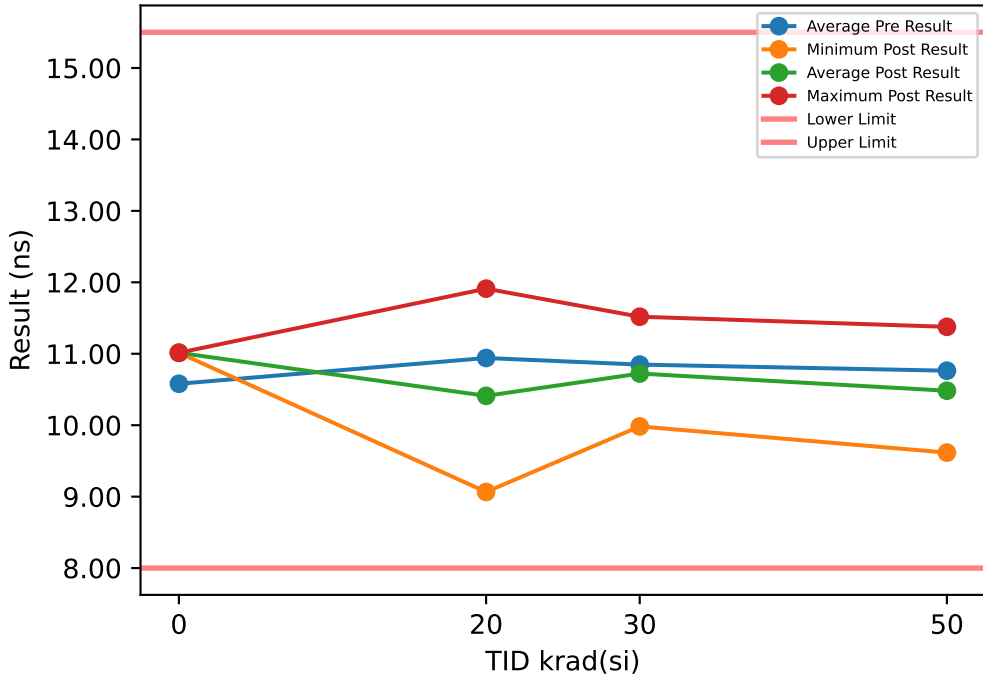


Test Statistics (ns)

| 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 | 2.994 | 2.994 | 2.994 | | 2.8397 | 2.8397 | 2.8397 | | -0.1543 | -0.1543 | -0.1543 | |
| 20 | 1.2868 | 3.2592 | 4.5303 | 0.90741 | 1.2795 | 3.0697 | 4.5371 | 0.83999 | -1.2361 | -0.18942 | 1.0595 | 0.80884 |
| 30 | 1.7446 | 3.2375 | 3.9561 | 0.76544 | 2.2421 | 3.3482 | 4.2175 | 0.70933 | -1.714 | 0.11067 | 1.9516 | 1.0921 |
| 50 | 1.974 | 3.0737 | 4.0636 | 0.65301 | 2.5419 | 3.3491 | 4.5676 | 0.72035 | -1.2624 | 0.27542 | 1.5355 | 1.0442 |

Device Test: 96.1 T_RLH_SMALL(_DLHDead Time Small 500kHz VIN_12V)

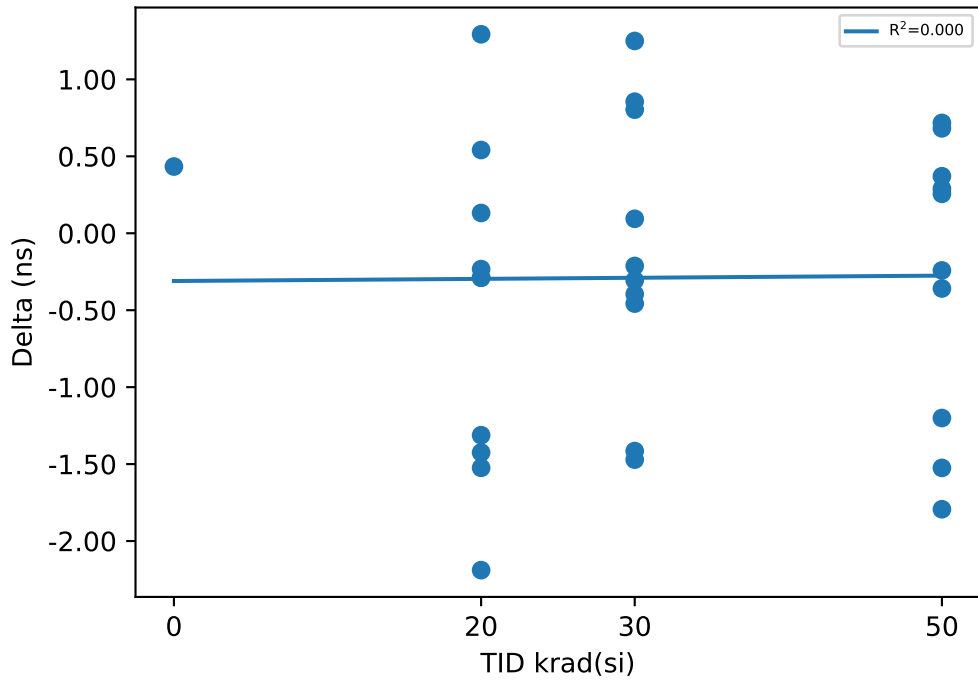
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.58 | 11.014 | 0.4336 |
| 321 | 20 | HDR unbiased | 11.701 | 10.388 | -1.3123 |
| 322 | 20 | HDR unbiased | 10.919 | 9.4944 | -1.4246 |
| 323 | 20 | HDR unbiased | 9.3534 | 9.0656 | -0.2878 |
| 324 | 20 | HDR unbiased | 11.097 | 10.864 | -0.233 |
| 325 | 20 | HDR unbiased | 10.042 | 10.583 | 0.541 |
| 331 | 30 | HDR unbiased | 10.379 | 11.234 | 0.8549 |
| 332 | 30 | HDR unbiased | 9.8034 | 10.607 | 0.8032 |
| 333 | 30 | HDR unbiased | 10.986 | 10.773 | -0.2126 |
| 334 | 30 | HDR unbiased | 11.207 | 10.902 | -0.3059 |
| 335 | 30 | HDR unbiased | 11.122 | 10.665 | -0.457 |
| 351 | 50 | HDR unbiased | 10.421 | 10.791 | 0.3705 |
| 352 | 50 | HDR unbiased | 11.141 | 9.6164 | -1.5247 |
| 353 | 50 | HDR unbiased | 11.121 | 11.377 | 0.2563 |
| 354 | 50 | HDR unbiased | 10.131 | 10.421 | 0.2901 |
| 355 | 50 | HDR unbiased | 10.959 | 9.7588 | -1.2006 |
| 521 | 20 | HDR biased | 11.524 | 10 | -1.5242 |
| 522 | 20 | HDR biased | 11.355 | 11.065 | -0.2895 |
| 523 | 20 | HDR biased | 10.558 | 10.69 | 0.1318 |
| 524 | 20 | HDR biased | 10.618 | 11.911 | 1.2928 |
| 525 | 20 | HDR biased | 12.237 | 10.048 | -2.1891 |
| 531 | 30 | HDR biased | 9.9223 | 11.172 | 1.2496 |
| 532 | 30 | HDR biased | 10.639 | 10.243 | -0.3955 |
| 533 | 30 | HDR biased | 11.425 | 11.518 | 0.094 |
| 534 | 30 | HDR biased | 11.454 | 9.9831 | -1.471 |
| 535 | 30 | HDR biased | 11.546 | 10.131 | -1.4155 |
| 551 | 50 | HDR biased | 11.273 | 11.032 | -0.2415 |
| 552 | 50 | HDR biased | 10.284 | 11.001 | 0.717 |
| 553 | 50 | HDR biased | 11.586 | 9.7923 | -1.7935 |
| 554 | 50 | HDR biased | 10.433 | 11.114 | 0.6818 |
| 555 | 50 | HDR biased | 10.28 | 9.9214 | -0.3589 |

TID vs Post - Pre Exposure Delta

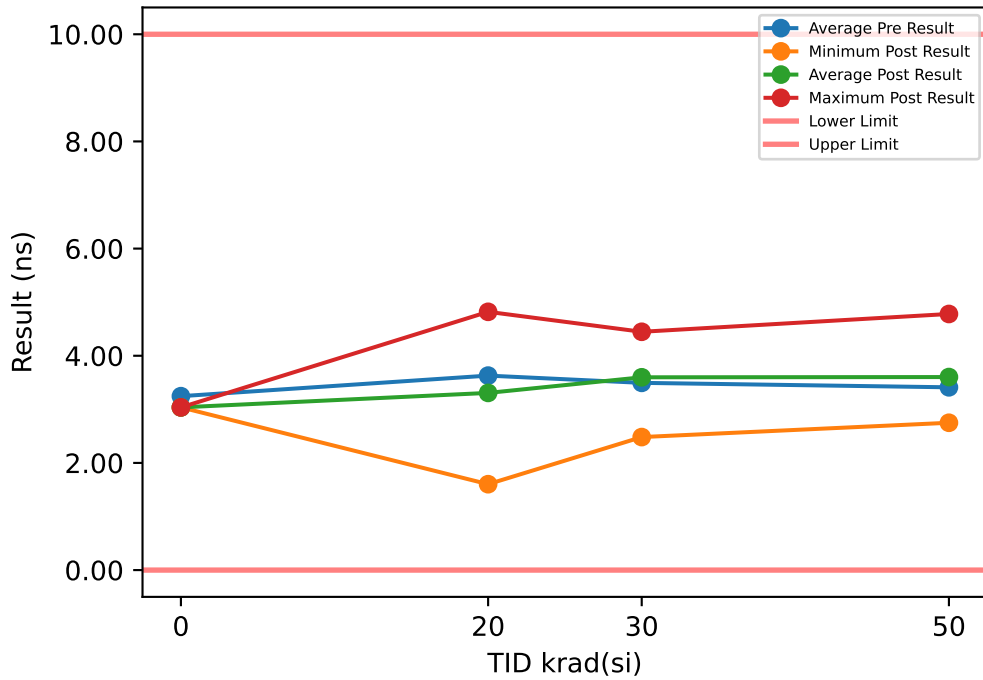


Test Statistics (ns)

| 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 | 10.58 | 10.58 | 10.58 | | 11.014 | 11.014 | 11.014 | | 0.4336 | 0.4336 | 0.4336 | |
| 20 | 9.3534 | 10.941 | 12.237 | 0.84153 | 9.0656 | 10.411 | 11.911 | 0.81257 | -2.1891 | -0.52949 | 1.2928 | 1.068 |
| 30 | 9.8034 | 10.848 | 11.546 | 0.63442 | 9.9831 | 10.723 | 11.518 | 0.5028 | -1.471 | -0.12558 | 1.2496 | 0.91044 |
| 50 | 10.131 | 10.763 | 11.586 | 0.50929 | 9.6164 | 10.483 | 11.377 | 0.66113 | -1.7935 | -0.28035 | 0.717 | 0.92196 |

Device Test: 96.10 T_RLH_MIN(_DLH Dead Time Min 2MHz VIN_12V)

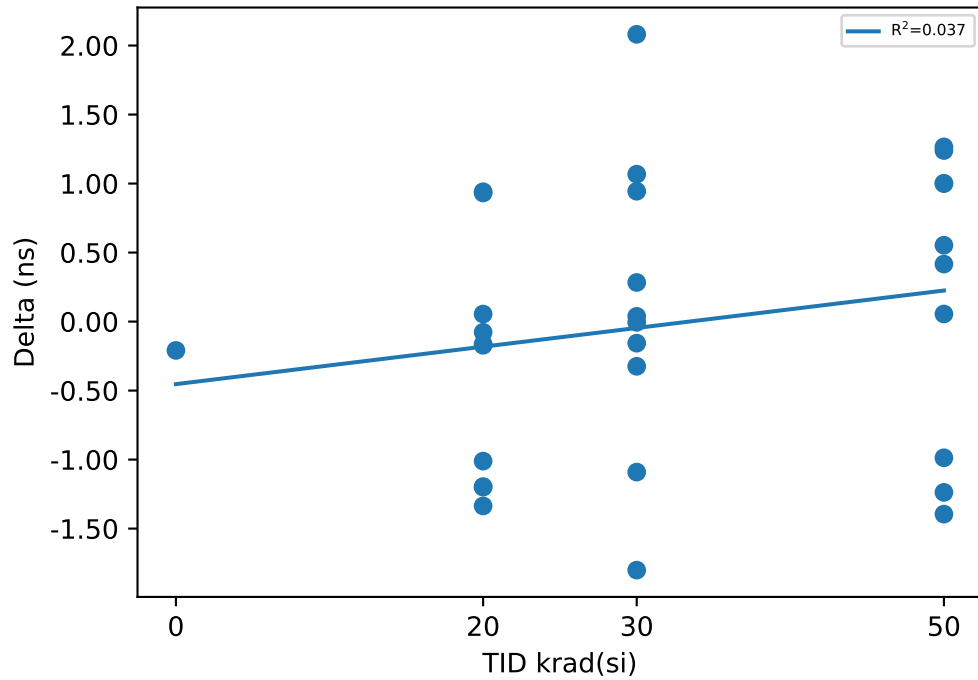
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.2456 | 3.0366 | -0.209 |
| 321 | 20 | HDR unbiased | 4.487 | 3.4759 | -1.0111 |
| 322 | 20 | HDR unbiased | 3.7441 | 2.4083 | -1.3358 |
| 323 | 20 | HDR unbiased | 1.7657 | 1.6029 | -0.1628 |
| 324 | 20 | HDR unbiased | 3.6553 | 3.7098 | 0.0545 |
| 325 | 20 | HDR unbiased | 2.759 | 3.6997 | 0.9407 |
| 331 | 30 | HDR unbiased | 3.22 | 4.2881 | 1.0681 |
| 332 | 30 | HDR unbiased | 2.0742 | 3.0185 | 0.9443 |
| 333 | 30 | HDR unbiased | 4.0805 | 3.7563 | -0.3242 |
| 334 | 30 | HDR unbiased | 4.0194 | 3.8629 | -0.1565 |
| 335 | 30 | HDR unbiased | 3.5757 | 3.5702 | -0.0055 |
| 351 | 50 | HDR unbiased | 3.199 | 3.7521 | 0.5531 |
| 352 | 50 | HDR unbiased | 4.0668 | 2.8292 | -1.2376 |
| 353 | 50 | HDR unbiased | 3.7775 | 4.7796 | 1.0021 |
| 354 | 50 | HDR unbiased | 2.7507 | 3.7504 | 0.9997 |
| 355 | 50 | HDR unbiased | 3.7364 | 2.7494 | -0.987 |
| 521 | 20 | HDR biased | 4.1065 | 2.9068 | -1.1997 |
| 522 | 20 | HDR biased | 3.8174 | 3.7399 | -0.0775 |
| 523 | 20 | HDR biased | 3.3456 | 3.1737 | -0.1719 |
| 524 | 20 | HDR biased | 3.8882 | 4.8199 | 0.9317 |
| 525 | 20 | HDR biased | 4.7257 | 3.5299 | -1.1958 |
| 531 | 30 | HDR biased | 2.2709 | 4.3523 | 2.0814 |
| 532 | 30 | HDR biased | 3.4211 | 3.4588 | 0.0377 |
| 533 | 30 | HDR biased | 4.1639 | 4.4473 | 0.2834 |
| 534 | 30 | HDR biased | 3.8328 | 2.7421 | -1.0907 |
| 535 | 30 | HDR biased | 4.2835 | 2.4825 | -1.801 |
| 551 | 50 | HDR biased | 3.8358 | 4.2525 | 0.4167 |
| 552 | 50 | HDR biased | 2.5338 | 3.7993 | 1.2655 |
| 553 | 50 | HDR biased | 4.438 | 3.0429 | -1.3951 |
| 554 | 50 | HDR biased | 3.0659 | 4.3052 | 1.2393 |
| 555 | 50 | HDR biased | 2.7085 | 2.7635 | 0.055 |

TID vs Post - Pre Exposure Delta

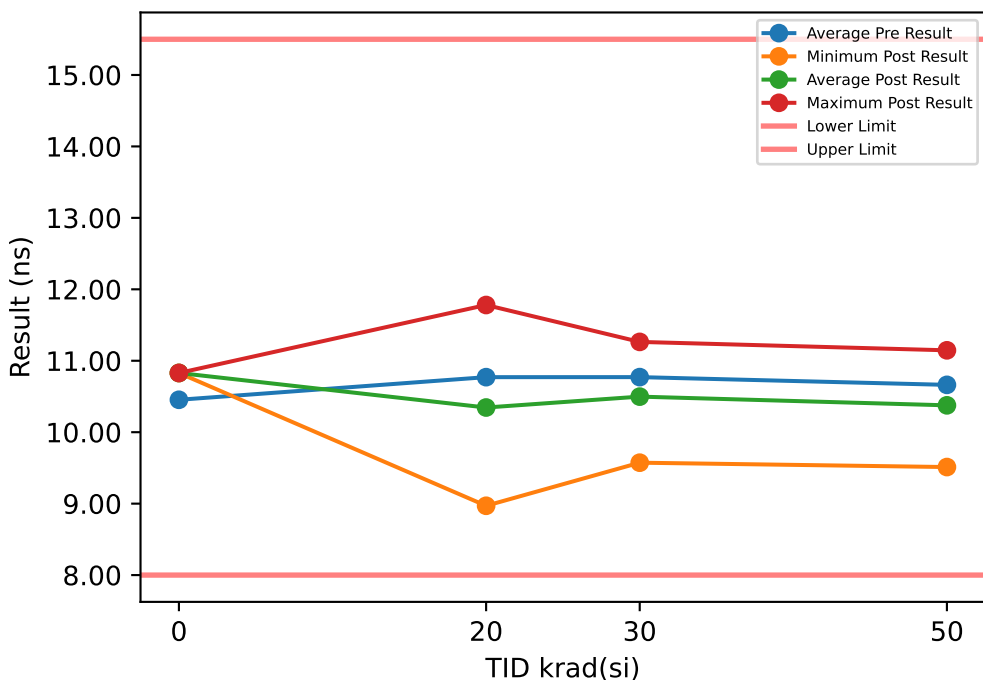


Test Statistics (ns)

| 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 | 3.2456 | 3.2456 | 3.2456 | | 3.0366 | 3.0366 | 3.0366 | | -0.209 | -0.209 | -0.209 | |
| 20 | 1.7657 | 3.6294 | 4.7257 | 0.85587 | 1.6029 | 3.3067 | 4.8199 | 0.8667 | -1.3358 | -0.32277 | 0.9407 | 0.8467 |
| 30 | 2.0742 | 3.4942 | 4.2835 | 0.77501 | 2.4825 | 3.5979 | 4.4473 | 0.68269 | -1.801 | 0.1037 | 2.0814 | 1.1006 |
| 50 | 2.5338 | 3.4112 | 4.438 | 0.64709 | 2.7494 | 3.6024 | 4.7796 | 0.72477 | -1.3951 | 0.19117 | 1.2655 | 1.0387 |

Device Test: 96.11 T_RLH_SMALL(_DLH Dead Time Small 2MHz VIN_12V)

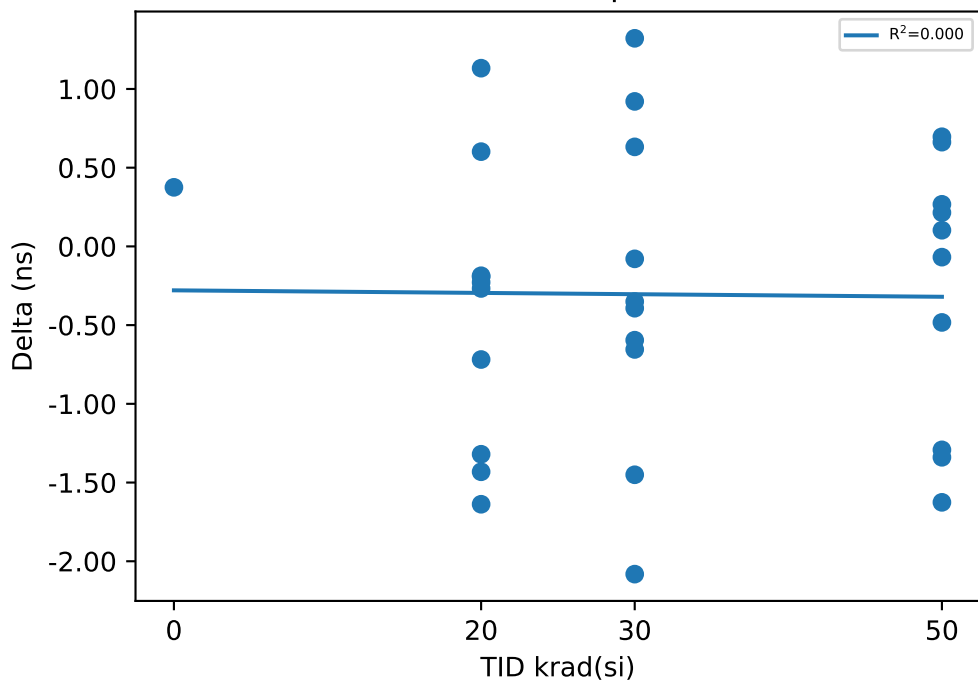
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.454 | 10.829 | 0.3752 |
| 321 | 20 | HDR unbiased | 11.368 | 10.649 | -0.7185 |
| 322 | 20 | HDR unbiased | 10.764 | 9.4437 | -1.3203 |
| 323 | 20 | HDR unbiased | 9.1628 | 8.9701 | -0.1927 |
| 324 | 20 | HDR unbiased | 10.956 | 10.769 | -0.1865 |
| 325 | 20 | HDR unbiased | 9.9066 | 10.508 | 0.6019 |
| 331 | 30 | HDR unbiased | 10.239 | 11.161 | 0.921 |
| 332 | 30 | HDR unbiased | 9.7238 | 10.356 | 0.6322 |
| 333 | 30 | HDR unbiased | 10.905 | 10.25 | -0.6545 |
| 334 | 30 | HDR unbiased | 11.144 | 10.793 | -0.3506 |
| 335 | 30 | HDR unbiased | 11.047 | 10.451 | -0.5958 |
| 351 | 50 | HDR unbiased | 10.359 | 10.627 | 0.2673 |
| 352 | 50 | HDR unbiased | 10.852 | 9.5122 | -1.3396 |
| 353 | 50 | HDR unbiased | 11.022 | 11.125 | 0.1027 |
| 354 | 50 | HDR unbiased | 10.097 | 10.312 | 0.2146 |
| 355 | 50 | HDR unbiased | 10.809 | 9.5171 | -1.2924 |
| 521 | 20 | HDR biased | 11.194 | 9.7628 | -1.4316 |
| 522 | 20 | HDR biased | 11.077 | 10.848 | -0.2285 |
| 523 | 20 | HDR biased | 10.561 | 10.293 | -0.2671 |
| 524 | 20 | HDR biased | 10.648 | 11.78 | 1.1321 |
| 525 | 20 | HDR biased | 12.067 | 10.429 | -1.6379 |
| 531 | 30 | HDR biased | 9.725 | 11.047 | 1.3218 |
| 532 | 30 | HDR biased | 10.586 | 10.194 | -0.3926 |
| 533 | 30 | HDR biased | 11.343 | 11.264 | -0.0791 |
| 534 | 30 | HDR biased | 11.341 | 9.8908 | -1.4506 |
| 535 | 30 | HDR biased | 11.655 | 9.5732 | -2.0818 |
| 551 | 50 | HDR biased | 11.008 | 10.94 | -0.0683 |
| 552 | 50 | HDR biased | 10.258 | 10.921 | 0.6622 |
| 553 | 50 | HDR biased | 11.407 | 9.7817 | -1.6257 |
| 554 | 50 | HDR biased | 10.45 | 11.146 | 0.6965 |
| 555 | 50 | HDR biased | 10.363 | 9.8803 | -0.4829 |

TID vs Post - Pre Exposure Delta

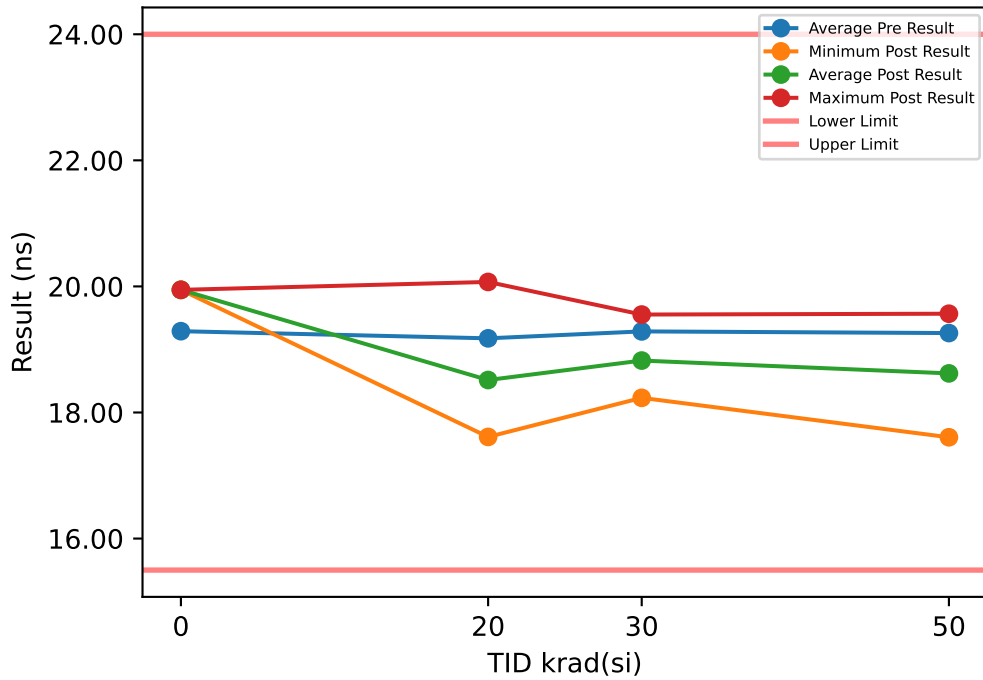


Test Statistics (ns)

| 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 | 10.454 | 10.454 | 10.454 | | 10.829 | 10.829 | 10.829 | | 0.3752 | 0.3752 | 0.3752 | |
| 20 | 9.1628 | 10.77 | 12.067 | 0.79828 | 8.9701 | 10.345 | 11.78 | 0.79332 | -1.6379 | -0.42491 | 1.1321 | 0.88353 |
| 30 | 9.7238 | 10.771 | 11.655 | 0.68105 | 9.5732 | 10.498 | 11.264 | 0.5592 | -2.0818 | -0.273 | 1.3218 | 1.0411 |
| 50 | 10.097 | 10.663 | 11.407 | 0.41779 | 9.5122 | 10.376 | 11.146 | 0.65977 | -1.6257 | -0.28656 | 0.6965 | 0.8548 |

Device Test: 96.12 T_RLH_MID(_DLH Dead Time Mid 2MHz VIN_12V)

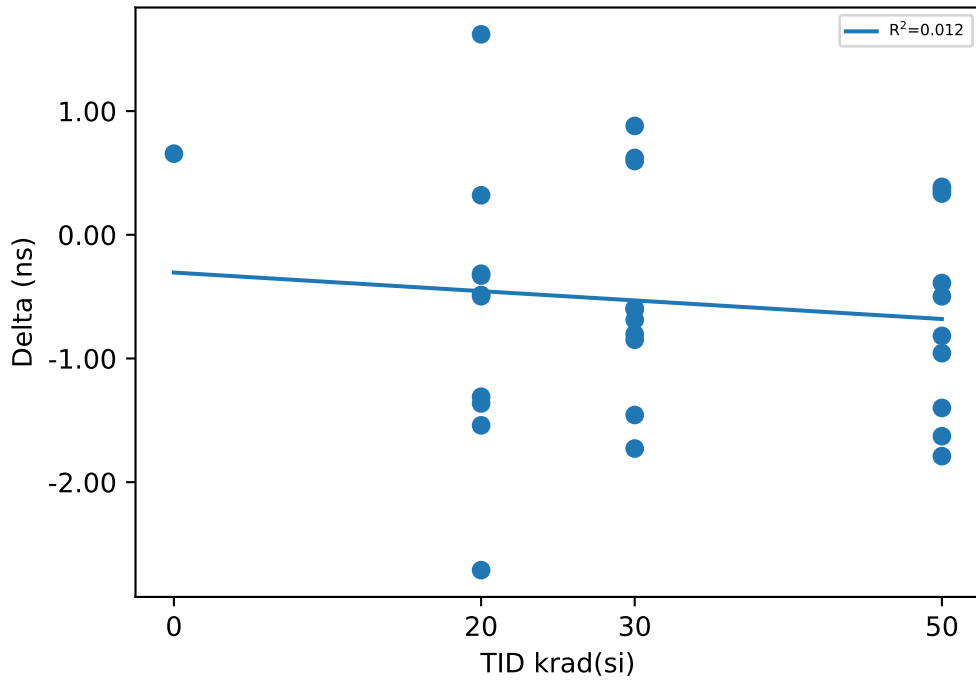
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.29 | 19.945 | 0.6558 |
| 321 | 20 | HDR unbiased | 19.709 | 18.4 | -1.3096 |
| 322 | 20 | HDR unbiased | 19.277 | 17.736 | -1.5407 |
| 323 | 20 | HDR unbiased | 18.109 | 17.612 | -0.4969 |
| 324 | 20 | HDR unbiased | 19.453 | 19.123 | -0.3296 |
| 325 | 20 | HDR unbiased | 18.271 | 18.59 | 0.3193 |
| 331 | 30 | HDR unbiased | 18.588 | 19.209 | 0.621 |
| 332 | 30 | HDR unbiased | 18.703 | 19.299 | 0.5961 |
| 333 | 30 | HDR unbiased | 19.084 | 18.235 | -0.8486 |
| 334 | 30 | HDR unbiased | 19.529 | 18.926 | -0.6032 |
| 335 | 30 | HDR unbiased | 19.658 | 18.854 | -0.8034 |
| 351 | 50 | HDR unbiased | 18.744 | 19.077 | 0.3332 |
| 352 | 50 | HDR unbiased | 19.397 | 17.607 | -1.7898 |
| 353 | 50 | HDR unbiased | 19.927 | 19.109 | -0.8176 |
| 354 | 50 | HDR unbiased | 18.769 | 18.271 | -0.4976 |
| 355 | 50 | HDR unbiased | 19.216 | 17.816 | -1.3999 |
| 521 | 20 | HDR biased | 19.471 | 18.108 | -1.3634 |
| 522 | 20 | HDR biased | 19.815 | 19.328 | -0.4872 |
| 523 | 20 | HDR biased | 18.805 | 18.491 | -0.3149 |
| 524 | 20 | HDR biased | 18.45 | 20.071 | 1.6208 |
| 525 | 20 | HDR biased | 20.404 | 17.693 | -2.7112 |
| 531 | 30 | HDR biased | 18.395 | 19.275 | 0.88 |
| 532 | 30 | HDR biased | 18.934 | 18.247 | -0.6876 |
| 533 | 30 | HDR biased | 20.148 | 19.554 | -0.5941 |
| 534 | 30 | HDR biased | 19.96 | 18.232 | -1.7281 |
| 535 | 30 | HDR biased | 19.863 | 18.407 | -1.4569 |
| 551 | 50 | HDR biased | 19.582 | 19.192 | -0.39 |
| 552 | 50 | HDR biased | 19.204 | 19.567 | 0.3631 |
| 553 | 50 | HDR biased | 19.747 | 18.119 | -1.6283 |
| 554 | 50 | HDR biased | 18.888 | 19.275 | 0.3872 |
| 555 | 50 | HDR biased | 19.128 | 18.171 | -0.9572 |

TID vs Post - Pre Exposure Delta

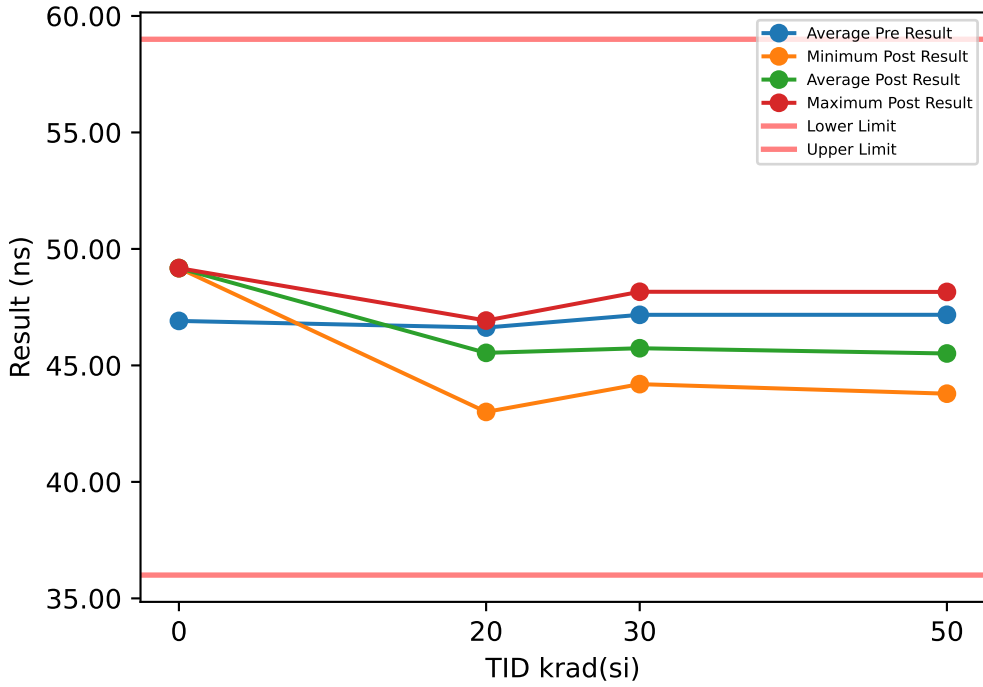


Test Statistics (ns)

| 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 | 19.29 | 19.29 | 19.29 | | 19.945 | 19.945 | 19.945 | | 0.6558 | 0.6558 | 0.6558 | |
| 20 | 18.109 | 19.176 | 20.404 | 0.74509 | 17.612 | 18.515 | 20.071 | 0.7982 | -2.7112 | -0.66134 | 1.6208 | 1.1712 |
| 30 | 18.395 | 19.286 | 20.148 | 0.62479 | 18.232 | 18.824 | 19.554 | 0.50838 | -1.7281 | -0.46248 | 0.88 | 0.88447 |
| 50 | 18.744 | 19.26 | 19.927 | 0.40454 | 17.607 | 18.62 | 19.567 | 0.69511 | -1.7898 | -0.63969 | 0.3872 | 0.82325 |

Device Test: 96.13 T_RLH_LARGE(_DLH Dead Time Large 2MHz VIN_12V)

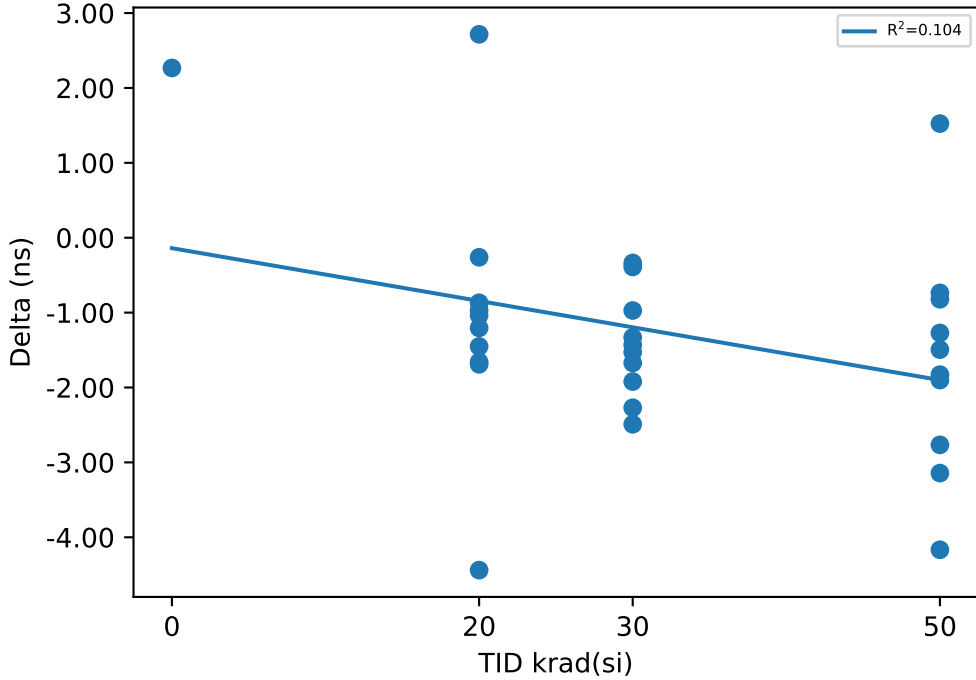
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 46.91 | 49.177 | 2.2671 |
| 321 | 20 | HDR unbiased | 46.829 | 45.17 | -1.6587 |
| 322 | 20 | HDR unbiased | 46.935 | 45.245 | -1.6905 |
| 323 | 20 | HDR unbiased | 47.118 | 45.913 | -1.2044 |
| 324 | 20 | HDR unbiased | 47.183 | 46.314 | -0.8689 |
| 325 | 20 | HDR unbiased | 45.646 | 45.385 | -0.261 |
| 331 | 30 | HDR unbiased | 45.984 | 45.647 | -0.3371 |
| 332 | 30 | HDR unbiased | 48.551 | 48.161 | -0.3901 |
| 333 | 30 | HDR unbiased | 45.869 | 44.197 | -1.6723 |
| 334 | 30 | HDR unbiased | 46.722 | 45.195 | -1.5275 |
| 335 | 30 | HDR unbiased | 47.153 | 45.822 | -1.3313 |
| 351 | 50 | HDR unbiased | 45.45 | 46.974 | 1.524 |
| 352 | 50 | HDR unbiased | 47.538 | 44.773 | -2.7657 |
| 353 | 50 | HDR unbiased | 48.799 | 44.632 | -4.1668 |
| 354 | 50 | HDR unbiased | 46.471 | 44.57 | -1.9003 |
| 355 | 50 | HDR unbiased | 46.533 | 44.705 | -1.8282 |
| 521 | 20 | HDR biased | 46.88 | 45.428 | -1.4518 |
| 522 | 20 | HDR biased | 47.893 | 46.926 | -0.9669 |
| 523 | 20 | HDR biased | 46.371 | 45.334 | -1.0367 |
| 524 | 20 | HDR biased | 43.953 | 46.67 | 2.7163 |
| 525 | 20 | HDR biased | 47.442 | 43.003 | -4.4387 |
| 531 | 30 | HDR biased | 46.838 | 45.867 | -0.9718 |
| 532 | 30 | HDR biased | 46.554 | 44.634 | -1.9204 |
| 533 | 30 | HDR biased | 48.853 | 46.583 | -2.2704 |
| 534 | 30 | HDR biased | 48.036 | 45.545 | -2.4912 |
| 535 | 30 | HDR biased | 47.156 | 45.725 | -1.4314 |
| 551 | 50 | HDR biased | 47.184 | 45.69 | -1.4942 |
| 552 | 50 | HDR biased | 48.892 | 48.155 | -0.7366 |
| 553 | 50 | HDR biased | 46.929 | 43.786 | -3.1429 |
| 554 | 50 | HDR biased | 46.42 | 45.598 | -0.8221 |
| 555 | 50 | HDR biased | 47.514 | 46.242 | -1.2715 |

TID vs Post - Pre Exposure Delta

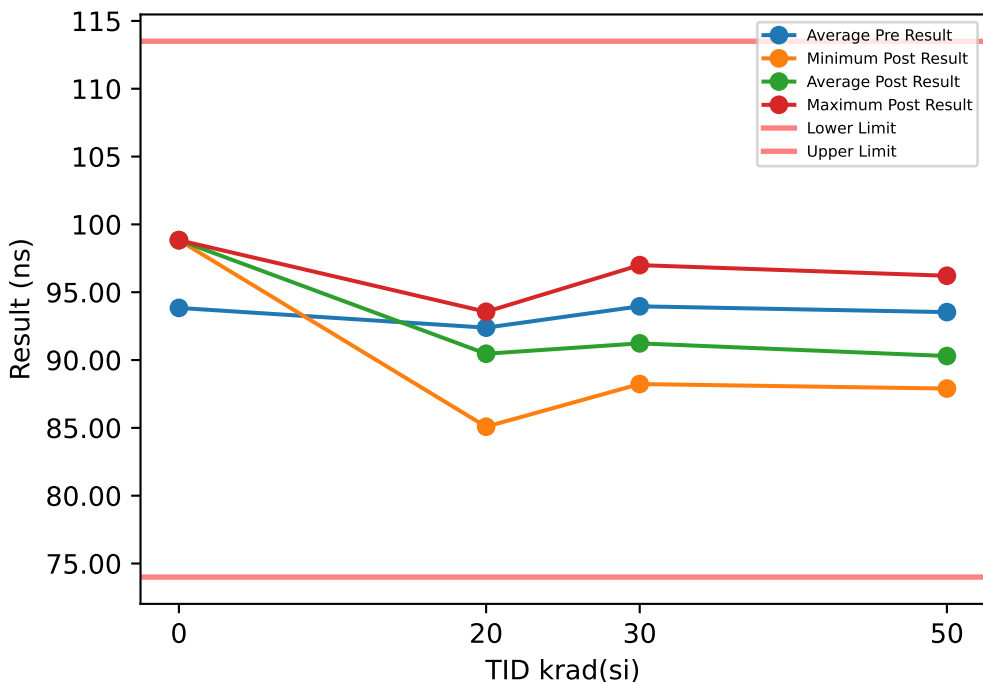


Test Statistics (ns)

| 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 | 46.91 | 46.91 | 46.91 | | 49.177 | 49.177 | 49.177 | | 2.2671 | 2.2671 | 2.2671 | |
| 20 | 43.953 | 46.625 | 47.893 | 1.1152 | 43.003 | 45.539 | 46.926 | 1.089 | -4.4387 | -1.0861 | 2.7163 | 1.7411 |
| 30 | 45.869 | 47.172 | 48.853 | 1.0154 | 44.197 | 45.737 | 48.161 | 1.0824 | -2.4912 | -1.4343 | -0.3371 | 0.71775 |
| 50 | 45.45 | 47.173 | 48.892 | 1.0722 | 43.786 | 45.512 | 48.155 | 1.3136 | -4.1668 | -1.6604 | 1.524 | 1.5514 |

Device Test: 96.14 T_RLH_MAX(_DLH Dead Time Max 2MHz VIN_12V)

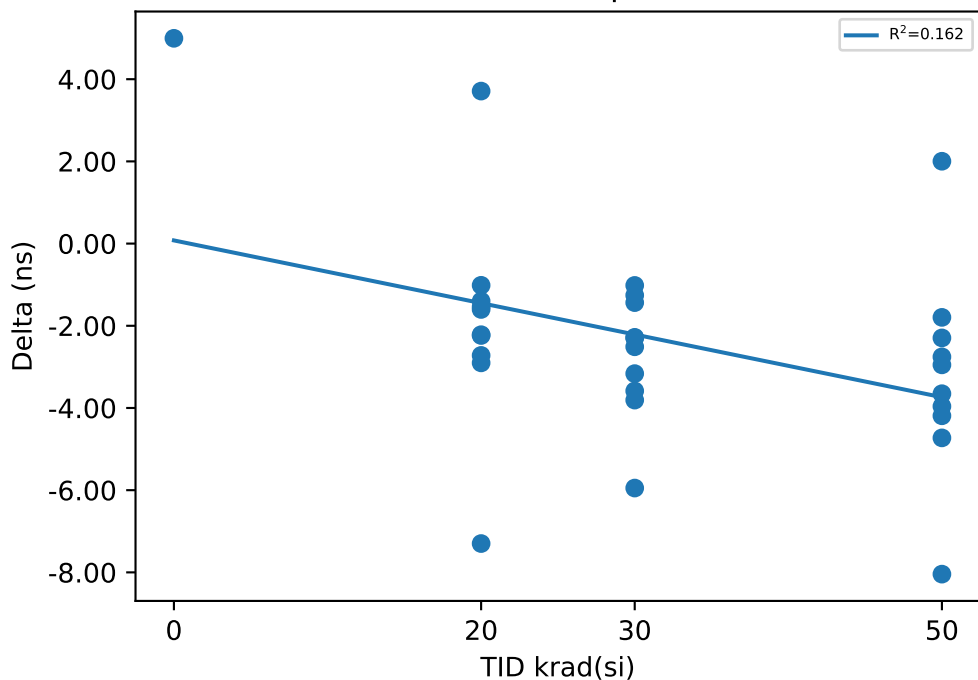
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 93.844 | 98.838 | 4.9948 |
| 321 | 20 | HDR unbiased | 91.59 | 88.688 | -2.9023 |
| 322 | 20 | HDR unbiased | 93.338 | 91.121 | -2.2172 |
| 323 | 20 | HDR unbiased | 95.568 | 93.332 | -2.236 |
| 324 | 20 | HDR unbiased | 92.986 | 91.587 | -1.3996 |
| 325 | 20 | HDR unbiased | 91.336 | 90.321 | -1.0151 |
| 331 | 30 | HDR unbiased | 91.149 | 90.131 | -1.0179 |
| 332 | 30 | HDR unbiased | 98.434 | 96.997 | -1.4364 |
| 333 | 30 | HDR unbiased | 90.742 | 88.231 | -2.5109 |
| 334 | 30 | HDR unbiased | 92.327 | 90.046 | -2.281 |
| 335 | 30 | HDR unbiased | 94.251 | 91.952 | -2.2994 |
| 351 | 50 | HDR unbiased | 90.371 | 92.374 | 2.0035 |
| 352 | 50 | HDR unbiased | 93.364 | 89.174 | -4.1899 |
| 353 | 50 | HDR unbiased | 95.941 | 87.898 | -8.0429 |
| 354 | 50 | HDR unbiased | 91.935 | 88.282 | -3.6527 |
| 355 | 50 | HDR unbiased | 92.453 | 88.493 | -3.96 |
| 521 | 20 | HDR biased | 92.376 | 89.655 | -2.7211 |
| 522 | 20 | HDR biased | 95.16 | 93.557 | -1.6026 |
| 523 | 20 | HDR biased | 91.658 | 90.118 | -1.5397 |
| 524 | 20 | HDR biased | 87.472 | 91.183 | 3.7106 |
| 525 | 20 | HDR biased | 92.383 | 85.084 | -7.2986 |
| 531 | 30 | HDR biased | 94.544 | 90.735 | -3.8082 |
| 532 | 30 | HDR biased | 92.646 | 89.482 | -3.1639 |
| 533 | 30 | HDR biased | 97.613 | 91.665 | -5.9483 |
| 534 | 30 | HDR biased | 94.591 | 91.006 | -3.5851 |
| 535 | 30 | HDR biased | 93.311 | 92.053 | -1.2576 |
| 551 | 50 | HDR biased | 93.179 | 90.423 | -2.756 |
| 552 | 50 | HDR biased | 98.509 | 96.214 | -2.2952 |
| 553 | 50 | HDR biased | 93.013 | 88.286 | -4.7276 |
| 554 | 50 | HDR biased | 91.921 | 90.126 | -1.7952 |
| 555 | 50 | HDR biased | 94.635 | 91.684 | -2.9508 |

TID vs Post - Pre Exposure Delta

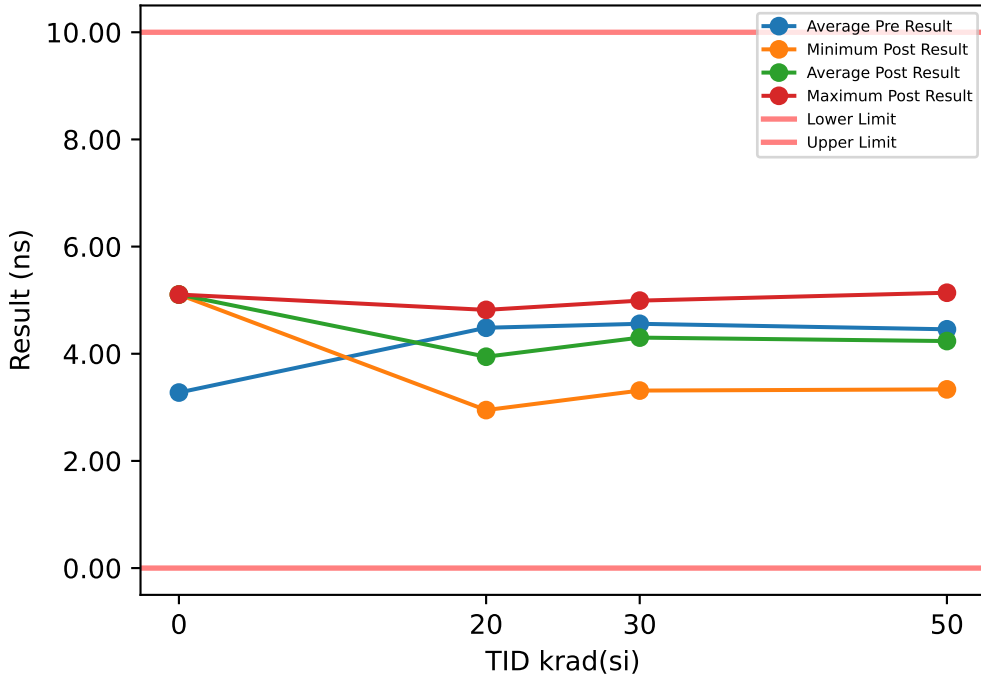


Test Statistics (ns)

| 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 | 93.844 | 93.844 | 93.844 | | 98.838 | 98.838 | 98.838 | | 4.9948 | 4.9948 | 4.9948 | |
| 20 | 87.472 | 92.387 | 95.568 | 2.2483 | 85.084 | 90.464 | 93.557 | 2.4241 | -7.2986 | -1.9222 | 3.7106 | 2.6617 |
| 30 | 90.742 | 93.961 | 98.434 | 2.5224 | 88.231 | 91.23 | 96.997 | 2.3477 | -5.9483 | -2.7309 | -1.0179 | 1.4775 |
| 50 | 90.371 | 93.532 | 98.509 | 2.3217 | 87.898 | 90.295 | 96.214 | 2.5749 | -8.0429 | -3.2367 | 2.0035 | 2.5312 |

Device Test: 96.19 T_RHL_MIN(_DHL Dead Time Min 500kHz VIN_12V)

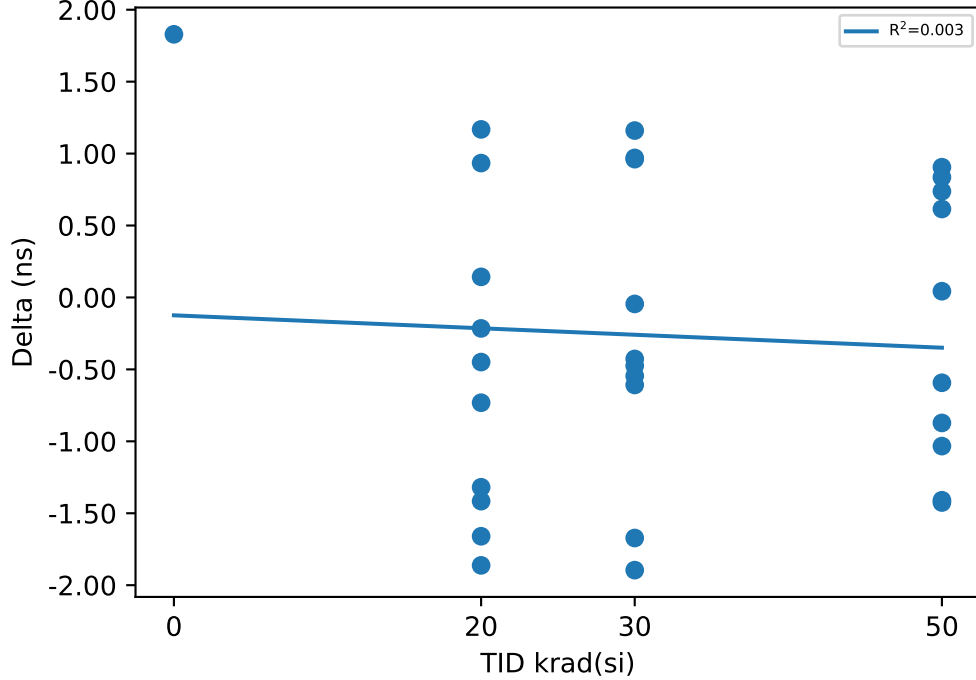
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.2762 | 5.1053 | 1.8291 |
| 321 | 20 | HDR unbiased | 5.192 | 3.532 | -1.66 |
| 322 | 20 | HDR unbiased | 5.1206 | 3.8012 | -1.3194 |
| 323 | 20 | HDR unbiased | 4.3376 | 4.4807 | 0.1431 |
| 324 | 20 | HDR unbiased | 4.6922 | 4.2431 | -0.4491 |
| 325 | 20 | HDR unbiased | 2.9465 | 4.1147 | 1.1682 |
| 331 | 30 | HDR unbiased | 3.8681 | 4.8294 | 0.9613 |
| 332 | 30 | HDR unbiased | 3.8315 | 4.9916 | 1.1601 |
| 333 | 30 | HDR unbiased | 3.9282 | 3.8831 | -0.0451 |
| 334 | 30 | HDR unbiased | 5.4596 | 4.9141 | -0.5455 |
| 335 | 30 | HDR unbiased | 5.0139 | 4.5866 | -0.4273 |
| 351 | 50 | HDR unbiased | 3.5383 | 4.3737 | 0.8354 |
| 352 | 50 | HDR unbiased | 5.0846 | 3.6592 | -1.4254 |
| 353 | 50 | HDR unbiased | 4.9263 | 4.3333 | -0.593 |
| 354 | 50 | HDR unbiased | 3.7487 | 4.4867 | 0.738 |
| 355 | 50 | HDR unbiased | 5.1364 | 3.7268 | -1.4096 |
| 521 | 20 | HDR biased | 4.9739 | 3.5581 | -1.4158 |
| 522 | 20 | HDR biased | 5.5504 | 4.8187 | -0.7317 |
| 523 | 20 | HDR biased | 4.0777 | 3.8625 | -0.2152 |
| 524 | 20 | HDR biased | 3.1514 | 4.0854 | 0.934 |
| 525 | 20 | HDR biased | 4.8109 | 2.9486 | -1.8623 |
| 531 | 30 | HDR biased | 3.7811 | 4.751 | 0.9699 |
| 532 | 30 | HDR biased | 3.9985 | 3.5239 | -0.4746 |
| 533 | 30 | HDR biased | 5.4105 | 4.8023 | -0.6082 |
| 534 | 30 | HDR biased | 4.9849 | 3.3128 | -1.6721 |
| 535 | 30 | HDR biased | 5.3139 | 3.4185 | -1.8954 |
| 551 | 50 | HDR biased | 5.7998 | 4.9276 | -0.8722 |
| 552 | 50 | HDR biased | 4.2335 | 5.1389 | 0.9054 |
| 553 | 50 | HDR biased | 5.2182 | 4.185 | -1.0332 |
| 554 | 50 | HDR biased | 3.5885 | 4.2034 | 0.6149 |
| 555 | 50 | HDR biased | 3.2919 | 3.3352 | 0.0433 |

TID vs Post - Pre Exposure Delta

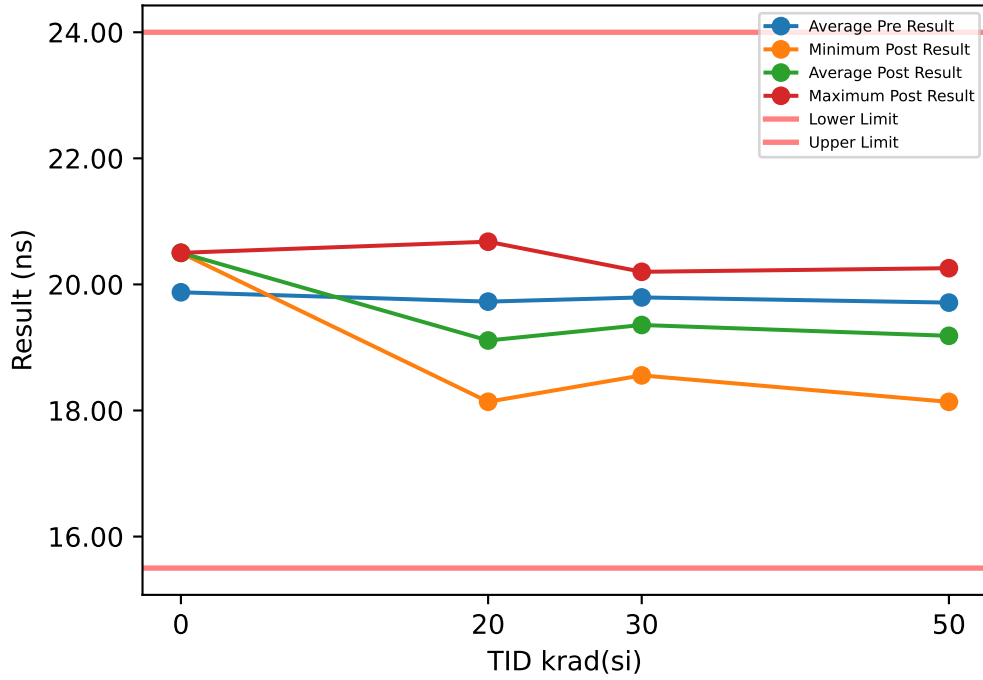


Test Statistics (ns)

| 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 | 3.2762 | 3.2762 | 3.2762 | | 5.1053 | 5.1053 | 5.1053 | | 1.8291 | 1.8291 | 1.8291 | |
| 20 | 2.9465 | 4.4853 | 5.5504 | 0.86668 | 2.9486 | 3.9445 | 4.8187 | 0.53002 | -1.8623 | -0.54082 | 1.1682 | 1.0586 |
| 30 | 3.7811 | 4.559 | 5.4596 | 0.73167 | 3.3128 | 4.3013 | 4.9916 | 0.68323 | -1.8954 | -0.25769 | 1.1601 | 1.0547 |
| 50 | 3.2919 | 4.4566 | 5.7998 | 0.87975 | 3.3352 | 4.237 | 5.1389 | 0.55697 | -1.4254 | -0.21964 | 0.9054 | 0.9521 |

Device Test: 96.2 T_RLH_MID(_DLH Dead Time Mid 500kHz VIN_12V)

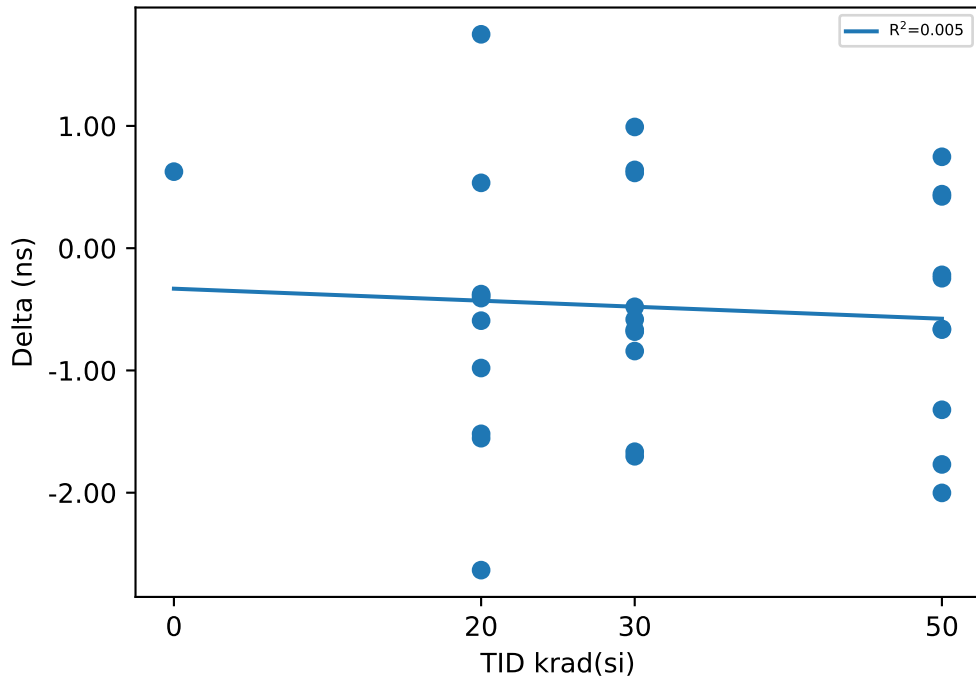
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.875 | 20.501 | 0.626 |
| 321 | 20 | HDR unbiased | 20.334 | 19.354 | -0.9802 |
| 322 | 20 | HDR unbiased | 19.881 | 18.327 | -1.5541 |
| 323 | 20 | HDR unbiased | 18.731 | 18.138 | -0.5929 |
| 324 | 20 | HDR unbiased | 20.033 | 19.625 | -0.4083 |
| 325 | 20 | HDR unbiased | 18.667 | 19.202 | 0.5344 |
| 331 | 30 | HDR unbiased | 19.115 | 19.755 | 0.6402 |
| 332 | 30 | HDR unbiased | 19.281 | 19.896 | 0.6155 |
| 333 | 30 | HDR unbiased | 19.584 | 18.901 | -0.6826 |
| 334 | 30 | HDR unbiased | 20.054 | 19.471 | -0.5827 |
| 335 | 30 | HDR unbiased | 20.196 | 19.355 | -0.8414 |
| 351 | 50 | HDR unbiased | 18.97 | 19.718 | 0.7475 |
| 352 | 50 | HDR unbiased | 20.139 | 18.137 | -2.0016 |
| 353 | 50 | HDR unbiased | 20.329 | 19.669 | -0.6604 |
| 354 | 50 | HDR unbiased | 19.006 | 18.788 | -0.2181 |
| 355 | 50 | HDR unbiased | 19.643 | 18.321 | -1.3218 |
| 521 | 20 | HDR biased | 20.16 | 18.642 | -1.5184 |
| 522 | 20 | HDR biased | 20.224 | 19.849 | -0.3756 |
| 523 | 20 | HDR biased | 19.39 | 19.002 | -0.3879 |
| 524 | 20 | HDR biased | 18.928 | 20.677 | 1.7493 |
| 525 | 20 | HDR biased | 20.921 | 18.287 | -2.6333 |
| 531 | 30 | HDR biased | 18.83 | 19.822 | 0.9915 |
| 532 | 30 | HDR biased | 19.347 | 18.679 | -0.6679 |
| 533 | 30 | HDR biased | 20.679 | 20.2 | -0.4794 |
| 534 | 30 | HDR biased | 20.591 | 18.926 | -1.6647 |
| 535 | 30 | HDR biased | 20.259 | 18.557 | -1.7021 |
| 551 | 50 | HDR biased | 19.98 | 19.734 | -0.2458 |
| 552 | 50 | HDR biased | 19.816 | 20.257 | 0.4418 |
| 553 | 50 | HDR biased | 20.341 | 18.572 | -1.7687 |
| 554 | 50 | HDR biased | 19.419 | 19.842 | 0.4235 |
| 555 | 50 | HDR biased | 19.474 | 18.808 | -0.6661 |

TID vs Post - Pre Exposure Delta

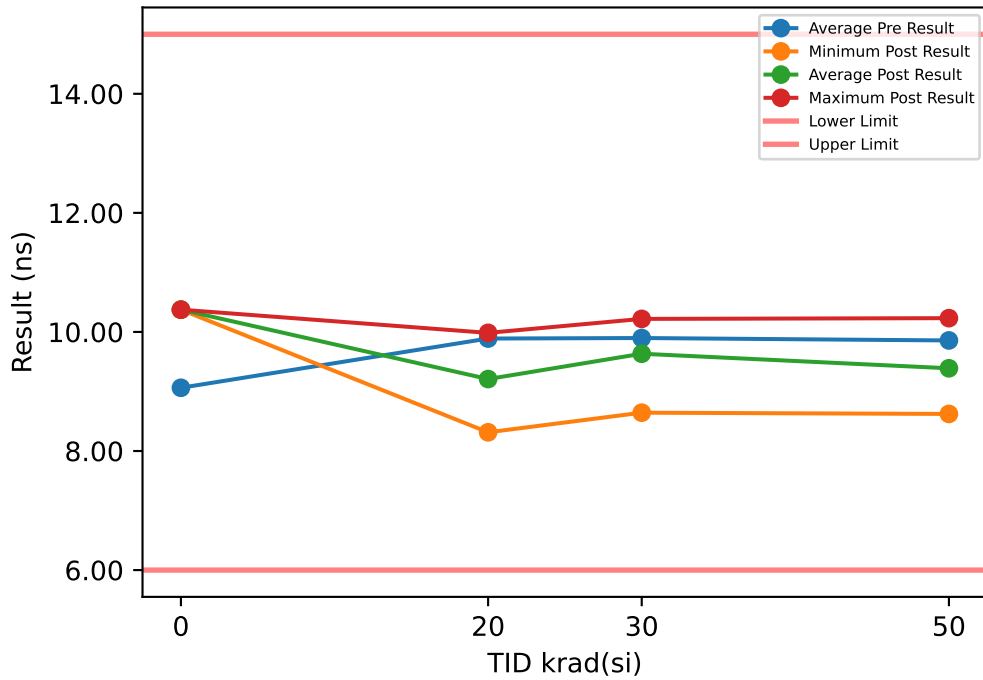


Test Statistics (ns)

| 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 | 19.875 | 19.875 | 19.875 | | 20.501 | 20.501 | 20.501 | | 0.626 | 0.626 | 0.626 | |
| 20 | 18.667 | 19.727 | 20.921 | 0.761 | 18.138 | 19.11 | 20.677 | 0.80278 | -2.6333 | -0.6167 | 1.7493 | 1.2004 |
| 30 | 18.83 | 19.794 | 20.679 | 0.64656 | 18.557 | 19.356 | 20.2 | 0.56584 | -1.7021 | -0.43736 | 0.9915 | 0.92596 |
| 50 | 18.97 | 19.712 | 20.341 | 0.49855 | 18.137 | 19.185 | 20.257 | 0.73954 | -2.0016 | -0.52697 | 0.7475 | 0.94434 |

Device Test: 96.20 T_RHL_SMALL(_DHL Dead Time Small 500kHz VIN_12V)

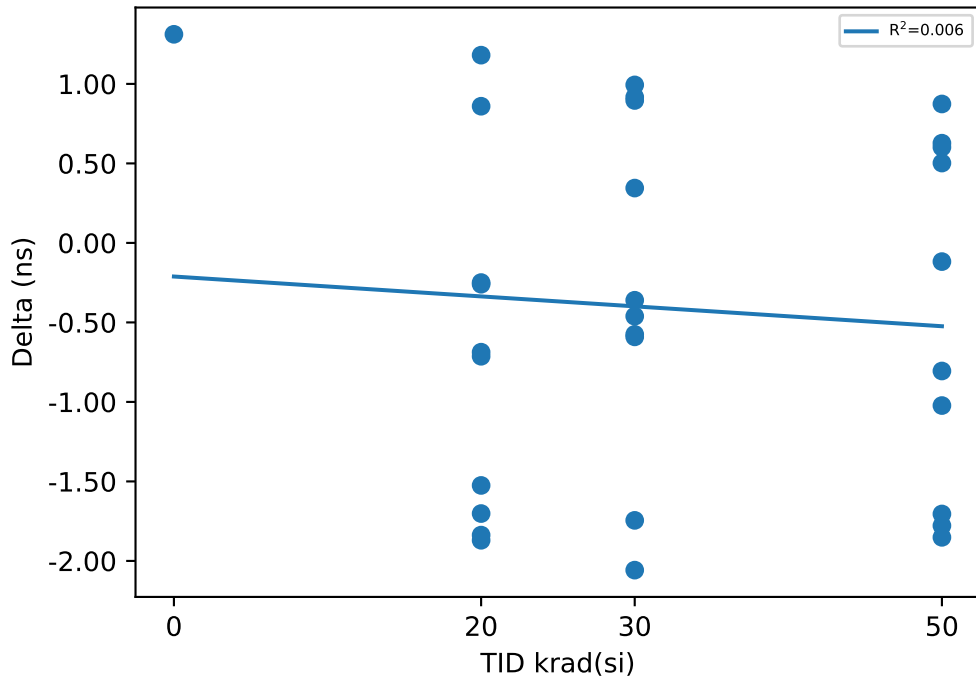
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.062 | 10.374 | 1.3119 |
| 321 | 20 | HDR unbiased | 10.807 | 9.2818 | -1.5252 |
| 322 | 20 | HDR unbiased | 10.49 | 8.7876 | -1.702 |
| 323 | 20 | HDR unbiased | 9.5089 | 9.2596 | -0.2493 |
| 324 | 20 | HDR unbiased | 10.299 | 9.6113 | -0.6872 |
| 325 | 20 | HDR unbiased | 8.479 | 9.6598 | 1.1808 |
| 331 | 30 | HDR unbiased | 9.1251 | 10.042 | 0.9173 |
| 332 | 30 | HDR unbiased | 9.2255 | 10.219 | 0.9937 |
| 333 | 30 | HDR unbiased | 9.3379 | 9.6828 | 0.3449 |
| 334 | 30 | HDR unbiased | 10.643 | 10.182 | -0.4611 |
| 335 | 30 | HDR unbiased | 10.525 | 9.9495 | -0.5751 |
| 351 | 50 | HDR unbiased | 9.0466 | 9.6738 | 0.6272 |
| 352 | 50 | HDR unbiased | 10.727 | 8.9489 | -1.7782 |
| 353 | 50 | HDR unbiased | 10.361 | 9.5555 | -0.8055 |
| 354 | 50 | HDR unbiased | 9.0456 | 9.9194 | 0.8738 |
| 355 | 50 | HDR unbiased | 10.662 | 8.8102 | -1.8516 |
| 521 | 20 | HDR biased | 10.483 | 8.6125 | -1.8701 |
| 522 | 20 | HDR biased | 10.697 | 9.9845 | -0.7129 |
| 523 | 20 | HDR biased | 9.4118 | 9.1519 | -0.2599 |
| 524 | 20 | HDR biased | 8.5653 | 9.4249 | 0.8596 |
| 525 | 20 | HDR biased | 10.152 | 8.3143 | -1.8376 |
| 531 | 30 | HDR biased | 9.0945 | 9.9903 | 0.8958 |
| 532 | 30 | HDR biased | 9.2327 | 8.8721 | -0.3606 |
| 533 | 30 | HDR biased | 10.697 | 10.106 | -0.5909 |
| 534 | 30 | HDR biased | 10.396 | 8.6508 | -1.7449 |
| 535 | 30 | HDR biased | 10.702 | 8.6438 | -2.0579 |
| 551 | 50 | HDR biased | 10.983 | 9.96 | -1.0228 |
| 552 | 50 | HDR biased | 9.6296 | 10.232 | 0.6019 |
| 553 | 50 | HDR biased | 10.433 | 8.7282 | -1.7047 |
| 554 | 50 | HDR biased | 8.9439 | 9.4461 | 0.5022 |
| 555 | 50 | HDR biased | 8.7403 | 8.6228 | -0.1175 |

TID vs Post - Pre Exposure Delta

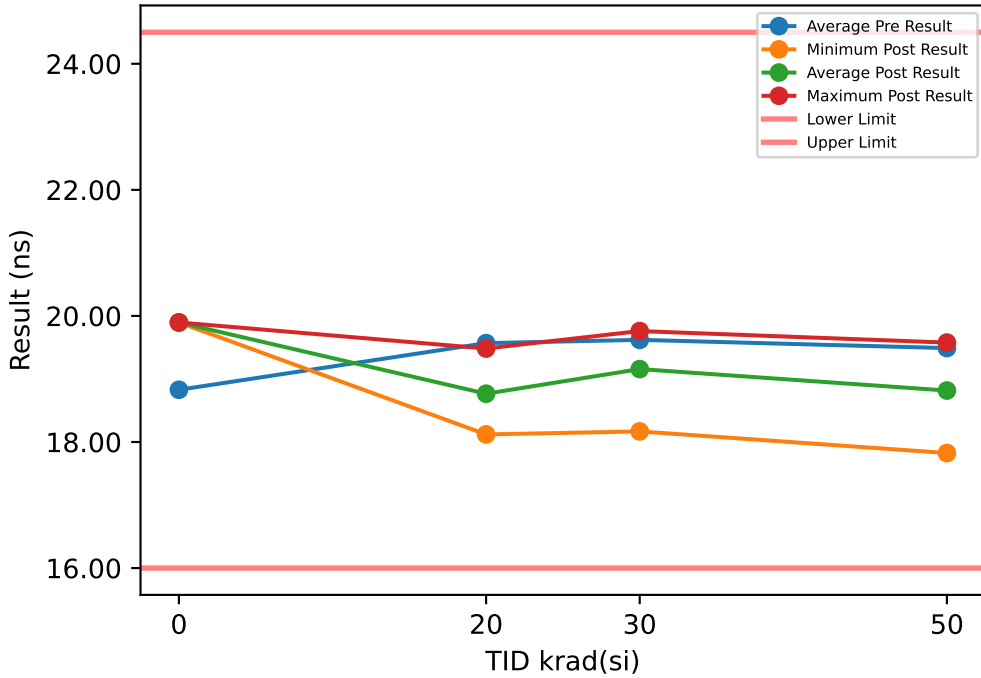


Test Statistics (ns)

| 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 | 9.062 | 9.062 | 9.062 | | 10.374 | 10.374 | 10.374 | | 1.3119 | 1.3119 | 1.3119 | |
| 20 | 8.479 | 9.8892 | 10.807 | 0.85366 | 8.3143 | 9.2088 | 9.9845 | 0.51187 | -1.8701 | -0.68038 | 1.1808 | 1.0909 |
| 30 | 9.0945 | 9.8978 | 10.702 | 0.74026 | 8.6438 | 9.6339 | 10.219 | 0.64887 | -2.0579 | -0.26388 | 0.9937 | 1.0727 |
| 50 | 8.7403 | 9.8572 | 10.983 | 0.86316 | 8.6228 | 9.3896 | 10.232 | 0.57558 | -1.8516 | -0.46752 | 0.8738 | 1.095 |

Device Test: 96.21 T_RHL_MID(_DHL Dead Time Mid 500kHz VIN_12V)

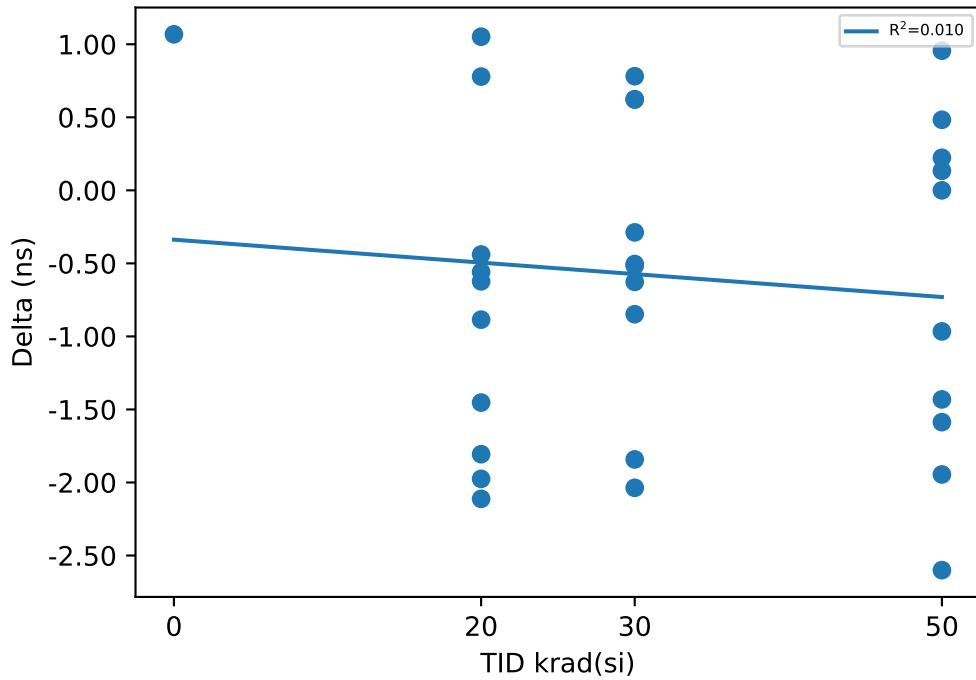
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 18.828 | 19.896 | 1.0681 |
| 321 | 20 | HDR unbiased | 20.672 | 18.56 | -2.112 |
| 322 | 20 | HDR unbiased | 20.282 | 18.476 | -1.8066 |
| 323 | 20 | HDR unbiased | 19.079 | 18.64 | -0.4392 |
| 324 | 20 | HDR unbiased | 19.961 | 19.338 | -0.623 |
| 325 | 20 | HDR unbiased | 18.431 | 19.483 | 1.0517 |
| 331 | 30 | HDR unbiased | 18.838 | 19.462 | 0.6238 |
| 332 | 30 | HDR unbiased | 18.979 | 19.76 | 0.7812 |
| 333 | 30 | HDR unbiased | 19.093 | 18.805 | -0.2878 |
| 334 | 30 | HDR unbiased | 20.522 | 19.674 | -0.8481 |
| 335 | 30 | HDR unbiased | 20.238 | 19.611 | -0.6269 |
| 351 | 50 | HDR unbiased | 18.651 | 19.134 | 0.4829 |
| 352 | 50 | HDR unbiased | 20.371 | 18.784 | -1.587 |
| 353 | 50 | HDR unbiased | 20.063 | 19.097 | -0.9659 |
| 354 | 50 | HDR unbiased | 18.621 | 19.577 | 0.9562 |
| 355 | 50 | HDR unbiased | 20.651 | 18.051 | -2.6 |
| 521 | 20 | HDR biased | 20.096 | 18.12 | -1.9753 |
| 522 | 20 | HDR biased | 20.049 | 19.164 | -0.8852 |
| 523 | 20 | HDR biased | 19.064 | 18.505 | -0.559 |
| 524 | 20 | HDR biased | 18.232 | 19.01 | 0.7787 |
| 525 | 20 | HDR biased | 19.819 | 18.366 | -1.4529 |
| 531 | 30 | HDR biased | 18.762 | 19.384 | 0.6216 |
| 532 | 30 | HDR biased | 19.08 | 18.565 | -0.5158 |
| 533 | 30 | HDR biased | 20.134 | 19.629 | -0.5047 |
| 534 | 30 | HDR biased | 20.01 | 18.168 | -1.8421 |
| 535 | 30 | HDR biased | 20.549 | 18.512 | -2.0364 |
| 551 | 50 | HDR biased | 20.494 | 19.063 | -1.4313 |
| 552 | 50 | HDR biased | 19.173 | 19.308 | 0.1341 |
| 553 | 50 | HDR biased | 19.77 | 17.825 | -1.945 |
| 554 | 50 | HDR biased | 18.559 | 18.782 | 0.2226 |
| 555 | 50 | HDR biased | 18.545 | 18.545 | 0 |

TID vs Post - Pre Exposure Delta

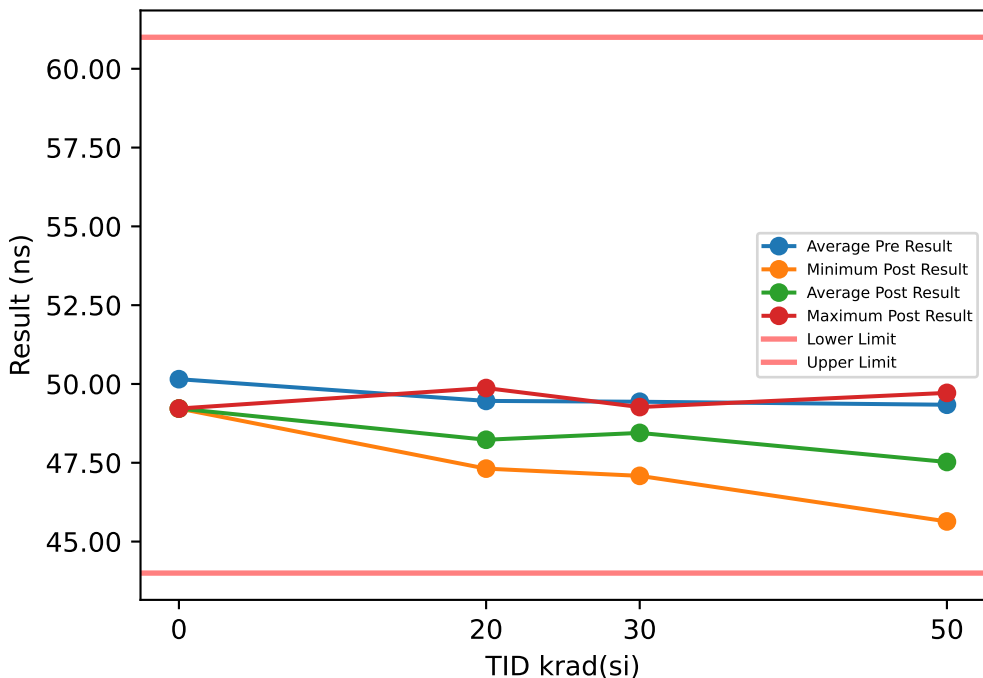


Test Statistics (ns)

| 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 | 18.828 | 18.828 | 18.828 | | 19.896 | 19.896 | 19.896 | | 1.0681 | 1.0681 | 1.0681 | |
| 20 | 18.232 | 19.569 | 20.672 | 0.81842 | 18.12 | 18.766 | 19.483 | 0.45296 | -2.112 | -0.80228 | 1.0517 | 1.0899 |
| 30 | 18.762 | 19.621 | 20.549 | 0.73031 | 18.168 | 19.157 | 19.76 | 0.58426 | -2.0364 | -0.46352 | 0.7812 | 0.97145 |
| 50 | 18.545 | 19.49 | 20.651 | 0.87295 | 17.825 | 18.816 | 19.577 | 0.5482 | -2.6 | -0.67334 | 0.9562 | 1.189 |

Device Test: 96.22 T_RHL_LARGE(_DHL Dead Time Large 500kHz VIN_12V)

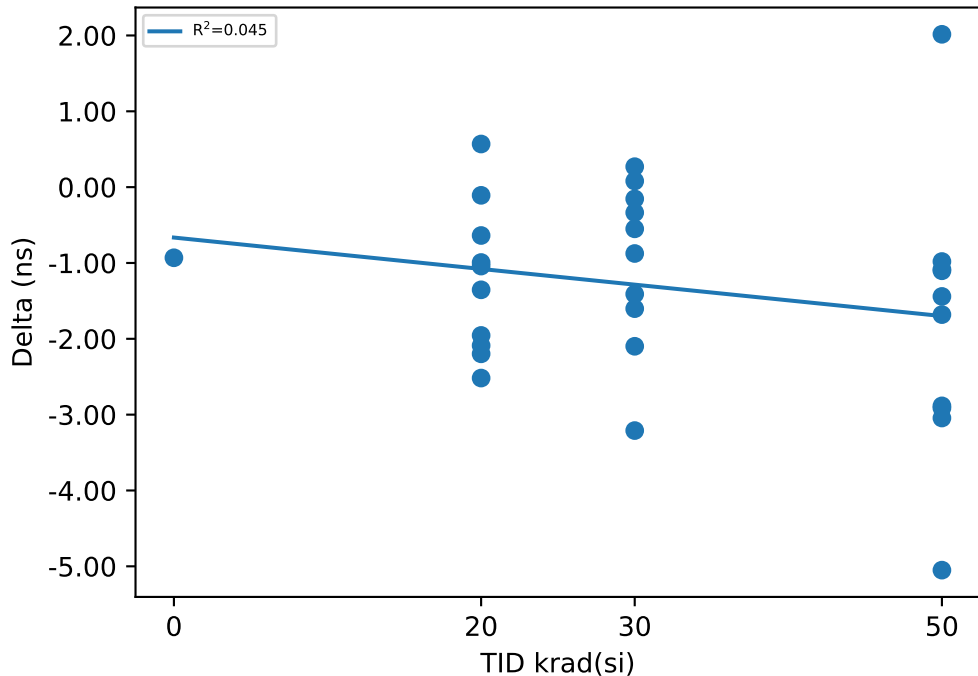
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 50.152 | 49.221 | -0.9314 |
| 321 | 20 | HDR unbiased | 50.746 | 48.229 | -2.5175 |
| 322 | 20 | HDR unbiased | 50.731 | 48.643 | -2.0884 |
| 323 | 20 | HDR unbiased | 48.355 | 47.314 | -1.0408 |
| 324 | 20 | HDR unbiased | 50.417 | 49.423 | -0.9938 |
| 325 | 20 | HDR unbiased | 49.302 | 49.871 | 0.5688 |
| 331 | 30 | HDR unbiased | 48.291 | 48.372 | 0.0807 |
| 332 | 30 | HDR unbiased | 49.061 | 48.906 | -0.1547 |
| 333 | 30 | HDR unbiased | 49.223 | 48.348 | -0.875 |
| 334 | 30 | HDR unbiased | 50.469 | 48.867 | -1.6023 |
| 335 | 30 | HDR unbiased | 50.678 | 49.267 | -1.4102 |
| 351 | 50 | HDR unbiased | 49.148 | 48.045 | -1.1028 |
| 352 | 50 | HDR unbiased | 51.049 | 48.136 | -2.9131 |
| 353 | 50 | HDR unbiased | 49.971 | 48.29 | -1.6809 |
| 354 | 50 | HDR unbiased | 47.702 | 49.717 | 2.0153 |
| 355 | 50 | HDR unbiased | 51.879 | 46.829 | -5.0504 |
| 521 | 20 | HDR biased | 49.562 | 47.607 | -1.9554 |
| 522 | 20 | HDR biased | 48.691 | 47.338 | -1.3539 |
| 523 | 20 | HDR biased | 48.359 | 47.721 | -0.6376 |
| 524 | 20 | HDR biased | 48.546 | 48.438 | -0.108 |
| 525 | 20 | HDR biased | 49.915 | 47.717 | -2.198 |
| 531 | 30 | HDR biased | 48.255 | 48.525 | 0.2698 |
| 532 | 30 | HDR biased | 48.94 | 48.604 | -0.336 |
| 533 | 30 | HDR biased | 49.478 | 48.928 | -0.5498 |
| 534 | 30 | HDR biased | 49.673 | 47.574 | -2.0986 |
| 535 | 30 | HDR biased | 50.295 | 47.085 | -3.21 |
| 551 | 50 | HDR biased | 49.523 | 46.639 | -2.8843 |
| 552 | 50 | HDR biased | 48.286 | 47.305 | -0.9808 |
| 553 | 50 | HDR biased | 48.683 | 45.638 | -3.0444 |
| 554 | 50 | HDR biased | 48.725 | 47.641 | -1.0834 |
| 555 | 50 | HDR biased | 48.447 | 47.006 | -1.4411 |

TID vs Post - Pre Exposure Delta

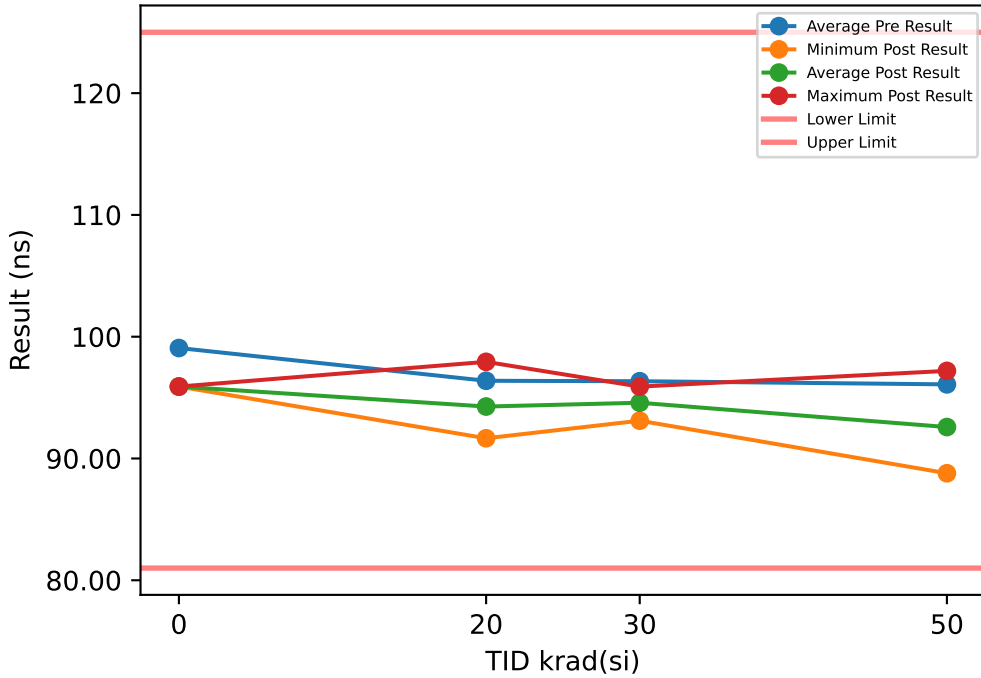


Test Statistics (ns)

| 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 | 50.152 | 50.152 | 50.152 | | 49.221 | 49.221 | 49.221 | | -0.9314 | -0.9314 | -0.9314 | |
| 20 | 48.355 | 49.462 | 50.746 | 0.95967 | 47.314 | 48.23 | 49.871 | 0.87412 | -2.5175 | -1.2325 | 0.5688 | 0.98939 |
| 30 | 48.255 | 49.436 | 50.678 | 0.85254 | 47.085 | 48.448 | 49.267 | 0.6628 | -3.21 | -0.98861 | 0.2698 | 1.0942 |
| 50 | 47.702 | 49.341 | 51.879 | 1.3012 | 45.638 | 47.525 | 49.717 | 1.1154 | -5.0504 | -1.8166 | 2.0153 | 1.8528 |

Device Test: 96.23 T_RHL_MAX(_DHL Dead Time Max 500kHz VIN_12V)

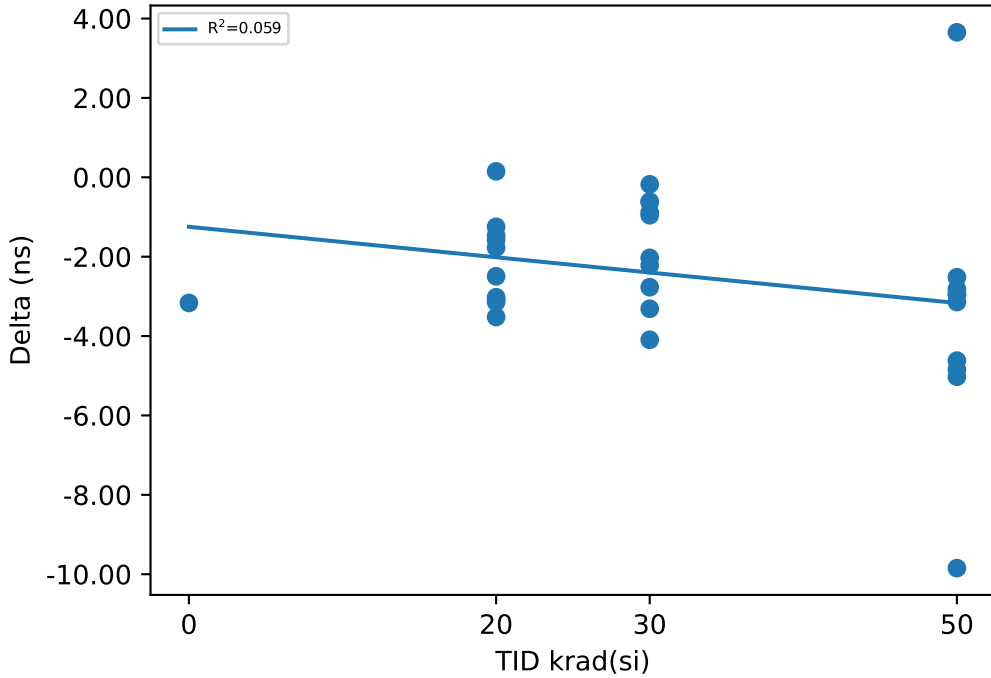
TID vs Result Stats



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 99.071 | 95.906 | -3.1655 |
| 321 | 20 | HDR unbiased | 97.502 | 94.36 | -3.1421 |
| 322 | 20 | HDR unbiased | 98.824 | 95.304 | -3.5204 |
| 323 | 20 | HDR unbiased | 94.038 | 92.572 | -1.4664 |
| 324 | 20 | HDR unbiased | 98.038 | 96.463 | -1.5758 |
| 325 | 20 | HDR unbiased | 97.785 | 97.935 | 0.1497 |
| 331 | 30 | HDR unbiased | 94.713 | 93.827 | -0.886 |
| 332 | 30 | HDR unbiased | 95.826 | 94.87 | -0.9556 |
| 333 | 30 | HDR unbiased | 96.506 | 94.477 | -2.029 |
| 334 | 30 | HDR unbiased | 97.204 | 94.987 | -2.2168 |
| 335 | 30 | HDR unbiased | 98.275 | 95.505 | -2.7693 |
| 351 | 50 | HDR unbiased | 96.517 | 93.55 | -2.9662 |
| 352 | 50 | HDR unbiased | 99.747 | 95.129 | -4.6188 |
| 353 | 50 | HDR unbiased | 97.229 | 94.086 | -3.1433 |
| 354 | 50 | HDR unbiased | 93.54 | 97.193 | 3.653 |
| 355 | 50 | HDR unbiased | 100.83 | 90.987 | -9.8468 |
| 521 | 20 | HDR biased | 95.825 | 92.755 | -3.0695 |
| 522 | 20 | HDR biased | 94.154 | 91.659 | -2.4944 |
| 523 | 20 | HDR biased | 94.375 | 92.605 | -1.7702 |
| 524 | 20 | HDR biased | 95.983 | 94.735 | -1.2475 |
| 525 | 20 | HDR biased | 97.289 | 94.268 | -3.0211 |
| 531 | 30 | HDR biased | 94.942 | 94.319 | -0.6224 |
| 532 | 30 | HDR biased | 96.516 | 95.901 | -0.6149 |
| 533 | 30 | HDR biased | 95.83 | 95.653 | -0.177 |
| 534 | 30 | HDR biased | 96.416 | 93.103 | -3.3126 |
| 535 | 30 | HDR biased | 97.224 | 93.13 | -4.0939 |
| 551 | 50 | HDR biased | 94.615 | 89.772 | -4.8426 |
| 552 | 50 | HDR biased | 93.726 | 91.208 | -2.518 |
| 553 | 50 | HDR biased | 93.813 | 88.788 | -5.0248 |
| 554 | 50 | HDR biased | 95.595 | 92.664 | -2.9304 |
| 555 | 50 | HDR biased | 95.255 | 92.438 | -2.8171 |

TID vs Post - Pre Exposure Delta

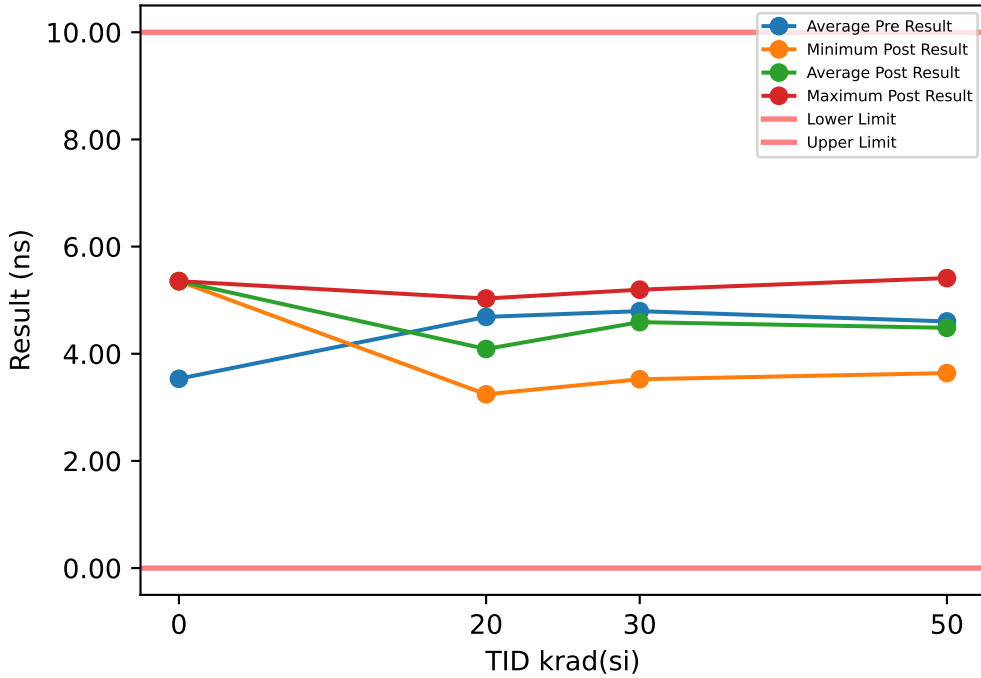


Test Statistics (ns)

| 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 | 99.071 | 99.071 | 99.071 | | 95.906 | 95.906 | 95.906 | | -3.1655 | -3.1655 | -3.1655 | |
| 20 | 94.038 | 96.381 | 98.824 | 1.7548 | 91.659 | 94.266 | 97.935 | 1.9522 | -3.5204 | -2.1158 | 0.1497 | 1.1362 |
| 30 | 94.713 | 96.345 | 98.275 | 1.0783 | 93.103 | 94.577 | 95.901 | 0.99619 | -4.0939 | -1.7678 | -0.177 | 1.3199 |
| 50 | 93.54 | 96.087 | 100.83 | 2.5332 | 88.788 | 92.581 | 97.193 | 2.532 | -9.8468 | -3.5055 | 3.653 | 3.3165 |

Device Test: 96.24 T_RHL_MIN(_DHL Dead Time Min 1MHz VIN_12V)

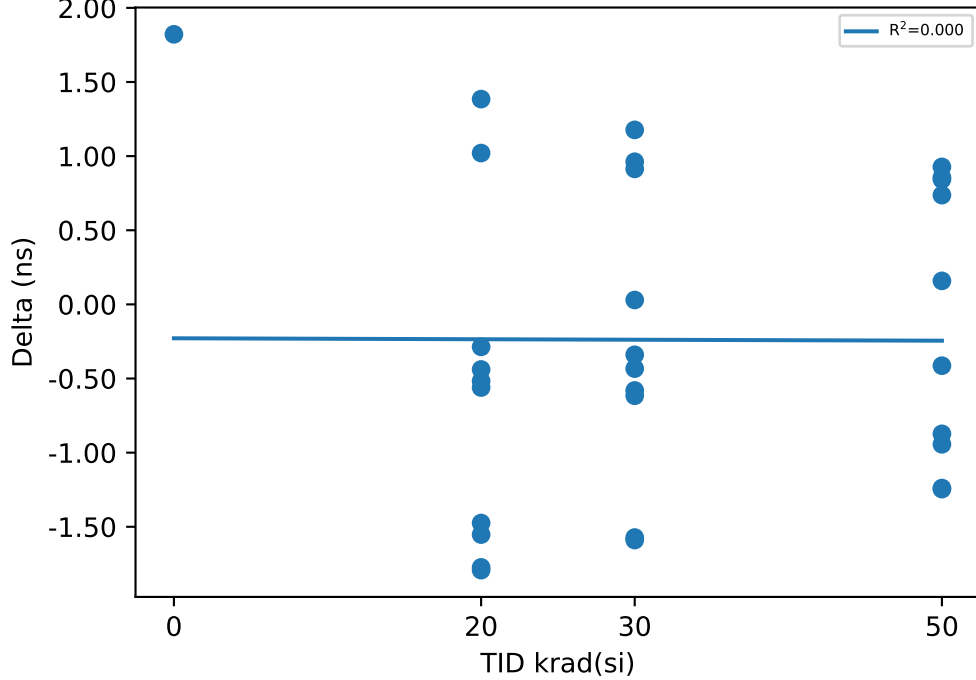
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.5334 | 5.355 | 1.8216 |
| 321 | 20 | HDR unbiased | 5.6121 | 3.8197 | -1.7924 |
| 322 | 20 | HDR unbiased | 5.0712 | 3.5966 | -1.4746 |
| 323 | 20 | HDR unbiased | 4.5857 | 4.2993 | -0.2864 |
| 324 | 20 | HDR unbiased | 4.9669 | 4.4504 | -0.5165 |
| 325 | 20 | HDR unbiased | 3.0371 | 4.4216 | 1.3845 |
| 331 | 30 | HDR unbiased | 4.1131 | 5.0751 | 0.962 |
| 332 | 30 | HDR unbiased | 4.2817 | 5.1957 | 0.914 |
| 333 | 30 | HDR unbiased | 4.1614 | 4.191 | 0.0296 |
| 334 | 30 | HDR unbiased | 5.7045 | 5.0884 | -0.6161 |
| 335 | 30 | HDR unbiased | 5.3303 | 4.8971 | -0.4332 |
| 351 | 50 | HDR unbiased | 3.754 | 4.6813 | 0.9273 |
| 352 | 50 | HDR unbiased | 5.1727 | 3.9267 | -1.246 |
| 353 | 50 | HDR unbiased | 4.9806 | 4.5671 | -0.4135 |
| 354 | 50 | HDR unbiased | 3.9029 | 4.7593 | 0.8564 |
| 355 | 50 | HDR unbiased | 5.1026 | 3.8637 | -1.2389 |
| 521 | 20 | HDR biased | 5.3017 | 3.5278 | -1.7739 |
| 522 | 20 | HDR biased | 5.5916 | 5.0307 | -0.5609 |
| 523 | 20 | HDR biased | 4.5639 | 4.125 | -0.4389 |
| 524 | 20 | HDR biased | 3.3537 | 4.3744 | 1.0207 |
| 525 | 20 | HDR biased | 4.7957 | 3.2432 | -1.5525 |
| 531 | 30 | HDR biased | 3.8972 | 5.0741 | 1.1769 |
| 532 | 30 | HDR biased | 4.3526 | 3.7721 | -0.5805 |
| 533 | 30 | HDR biased | 5.4079 | 5.0679 | -0.34 |
| 534 | 30 | HDR biased | 5.0964 | 3.5238 | -1.5726 |
| 535 | 30 | HDR biased | 5.6077 | 4.0181 | -1.5896 |
| 551 | 50 | HDR biased | 6.1504 | 5.2068 | -0.9436 |
| 552 | 50 | HDR biased | 4.5694 | 5.4119 | 0.8425 |
| 553 | 50 | HDR biased | 5.2046 | 4.3314 | -0.8732 |
| 554 | 50 | HDR biased | 3.7159 | 4.4529 | 0.737 |
| 555 | 50 | HDR biased | 3.4803 | 3.6389 | 0.1586 |

TID vs Post - Pre Exposure Delta

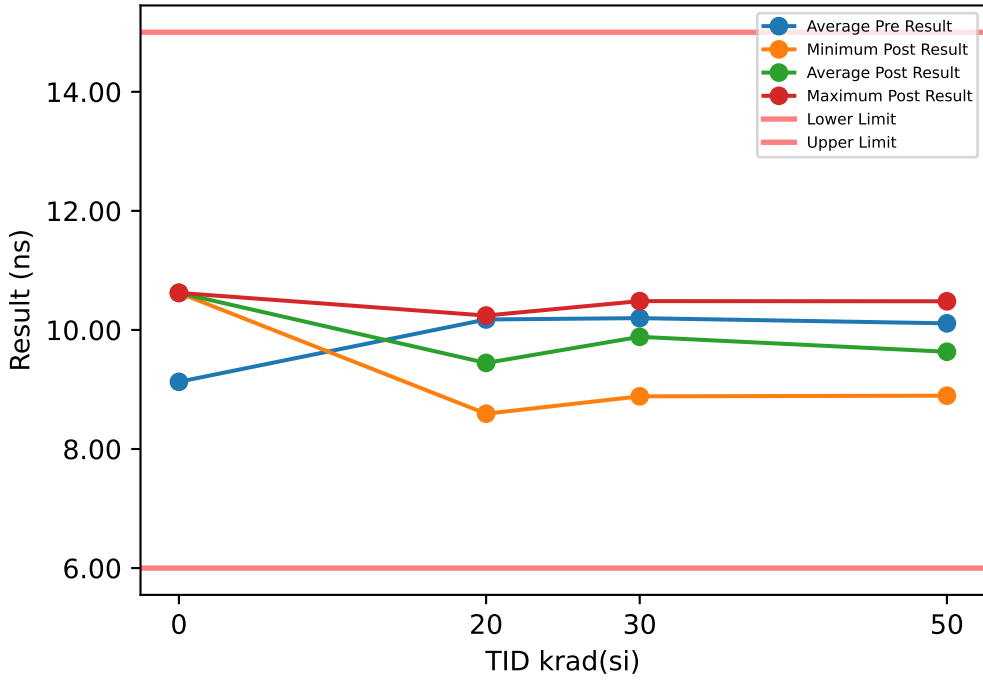


Test Statistics (ns)

| 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 | 3.5334 | 3.5334 | 3.5334 | | 5.355 | 5.355 | 5.355 | | 1.8216 | 1.8216 | 1.8216 | |
| 20 | 3.0371 | 4.688 | 5.6121 | 0.87019 | 3.2432 | 4.0889 | 5.0307 | 0.53752 | -1.7924 | -0.59909 | 1.3845 | 1.114 |
| 30 | 3.8972 | 4.7953 | 5.7045 | 0.69701 | 3.5238 | 4.5903 | 5.1957 | 0.64115 | -1.5896 | -0.20495 | 1.1769 | 0.98582 |
| 50 | 3.4803 | 4.6033 | 6.1504 | 0.86491 | 3.6389 | 4.484 | 5.4119 | 0.57144 | -1.246 | -0.11934 | 0.9273 | 0.92137 |

Device Test: 96.25 T_RHL_SMALL(_DHL Dead Time Small 1MHz VIN_12V)

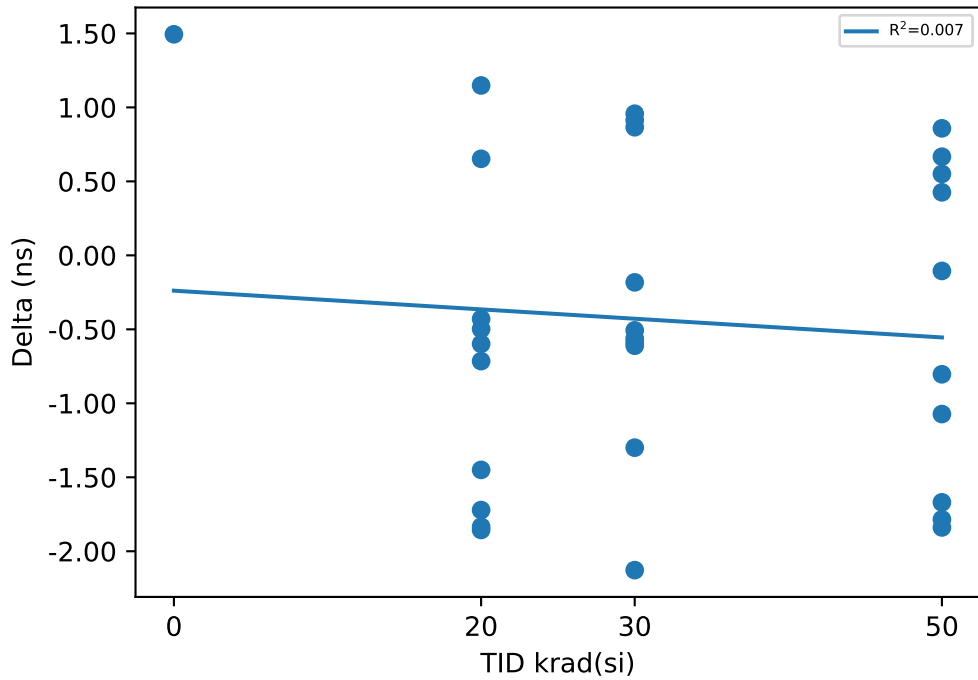
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.1285 | 10.623 | 1.494 |
| 321 | 20 | HDR unbiased | 11.013 | 9.1568 | -1.8561 |
| 322 | 20 | HDR unbiased | 10.83 | 9.38 | -1.4501 |
| 323 | 20 | HDR unbiased | 9.8716 | 9.4421 | -0.4295 |
| 324 | 20 | HDR unbiased | 10.455 | 9.8569 | -0.5983 |
| 325 | 20 | HDR unbiased | 8.7331 | 9.8814 | 1.1483 |
| 331 | 30 | HDR unbiased | 9.3302 | 10.196 | 0.8659 |
| 332 | 30 | HDR unbiased | 9.527 | 10.484 | 0.9573 |
| 333 | 30 | HDR unbiased | 9.6825 | 9.4999 | -0.1826 |
| 334 | 30 | HDR unbiased | 10.974 | 10.386 | -0.5881 |
| 335 | 30 | HDR unbiased | 10.908 | 10.297 | -0.6107 |
| 351 | 50 | HDR unbiased | 9.3747 | 9.9252 | 0.5505 |
| 352 | 50 | HDR unbiased | 10.962 | 9.1778 | -1.7846 |
| 353 | 50 | HDR unbiased | 10.691 | 9.8876 | -0.8038 |
| 354 | 50 | HDR unbiased | 9.2847 | 10.143 | 0.8585 |
| 355 | 50 | HDR unbiased | 10.849 | 9.0098 | -1.839 |
| 521 | 20 | HDR biased | 10.596 | 8.8743 | -1.7215 |
| 522 | 20 | HDR biased | 10.957 | 10.242 | -0.715 |
| 523 | 20 | HDR biased | 9.8301 | 9.3326 | -0.4975 |
| 524 | 20 | HDR biased | 9.0448 | 9.6973 | 0.6525 |
| 525 | 20 | HDR biased | 10.427 | 8.5932 | -1.8342 |
| 531 | 30 | HDR biased | 9.3926 | 10.306 | 0.9135 |
| 532 | 30 | HDR biased | 9.7744 | 9.2127 | -0.5617 |
| 533 | 30 | HDR biased | 10.875 | 10.368 | -0.5069 |
| 534 | 30 | HDR biased | 10.508 | 9.2087 | -1.2998 |
| 535 | 30 | HDR biased | 11.012 | 8.8847 | -2.1276 |
| 551 | 50 | HDR biased | 11.255 | 10.182 | -1.0727 |
| 552 | 50 | HDR biased | 9.8148 | 10.482 | 0.6667 |
| 553 | 50 | HDR biased | 10.614 | 8.9449 | -1.6693 |
| 554 | 50 | HDR biased | 9.2616 | 9.6876 | 0.426 |
| 555 | 50 | HDR biased | 9.001 | 8.8955 | -0.1055 |

TID vs Post - Pre Exposure Delta

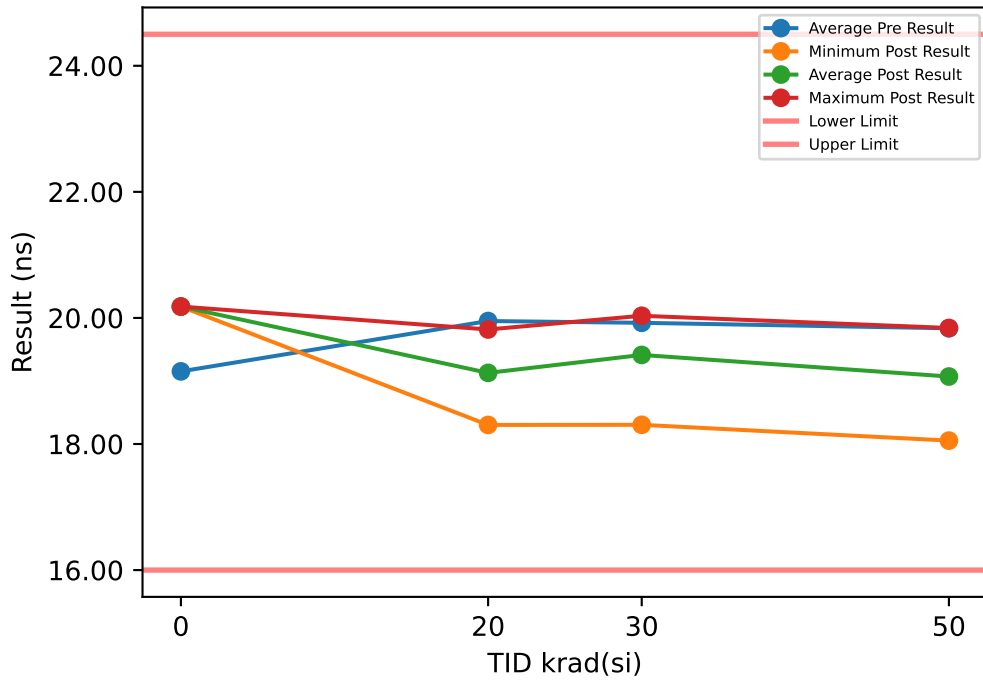


Test Statistics (ns)

| 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 | 9.1285 | 9.1285 | 9.1285 | | 10.623 | 10.623 | 10.623 | | 1.494 | 1.494 | 1.494 | |
| 20 | 8.7331 | 10.176 | 11.013 | 0.79085 | 8.5932 | 9.4456 | 10.242 | 0.4955 | -1.8561 | -0.73014 | 1.1483 | 1.0323 |
| 30 | 9.3302 | 10.198 | 11.012 | 0.71655 | 8.8847 | 9.8844 | 10.484 | 0.60971 | -2.1276 | -0.31407 | 0.9573 | 1.0031 |
| 50 | 9.001 | 10.111 | 11.255 | 0.84556 | 8.8955 | 9.6336 | 10.482 | 0.58199 | -1.839 | -0.47732 | 0.8585 | 1.0826 |

Device Test: 96.26 T_RHL_MID(_DHL Dead Time Mid 1MHz VIN_12V)

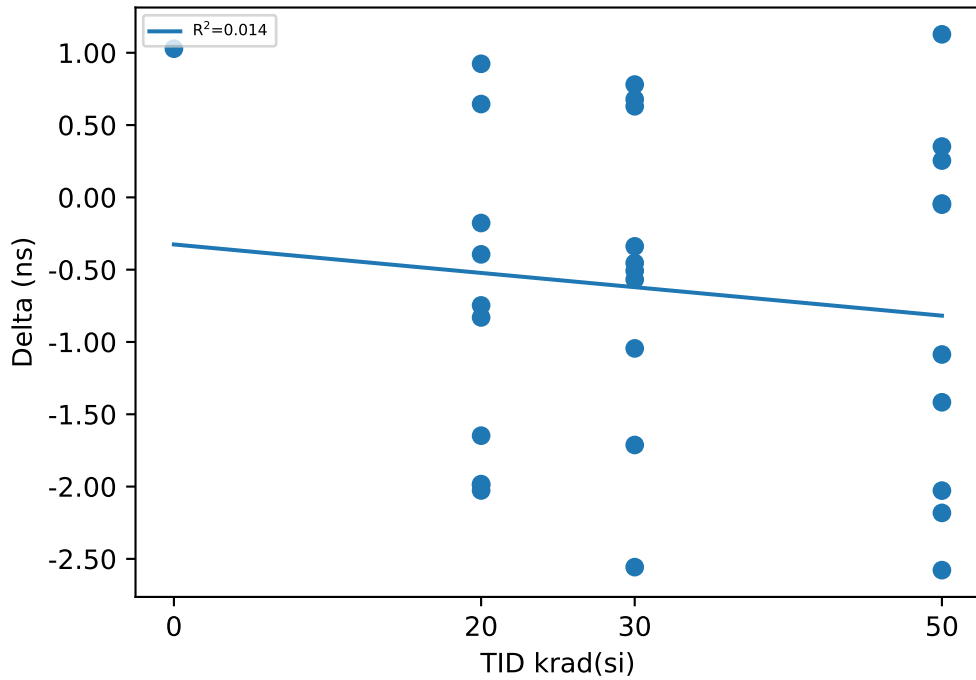
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.152 | 20.18 | 1.0282 |
| 321 | 20 | HDR unbiased | 20.896 | 18.907 | -1.9893 |
| 322 | 20 | HDR unbiased | 20.743 | 18.76 | -1.9829 |
| 323 | 20 | HDR unbiased | 19.357 | 18.963 | -0.394 |
| 324 | 20 | HDR unbiased | 20.445 | 19.698 | -0.7472 |
| 325 | 20 | HDR unbiased | 18.893 | 19.817 | 0.9238 |
| 331 | 30 | HDR unbiased | 19.112 | 19.742 | 0.6299 |
| 332 | 30 | HDR unbiased | 19.356 | 20.034 | 0.6783 |
| 333 | 30 | HDR unbiased | 19.515 | 19.177 | -0.3387 |
| 334 | 30 | HDR unbiased | 20.959 | 19.914 | -1.0445 |
| 335 | 30 | HDR unbiased | 20.574 | 20.006 | -0.568 |
| 351 | 50 | HDR unbiased | 19.035 | 19.387 | 0.3518 |
| 352 | 50 | HDR unbiased | 20.884 | 18.856 | -2.0279 |
| 353 | 50 | HDR unbiased | 20.484 | 19.397 | -1.0867 |
| 354 | 50 | HDR unbiased | 18.713 | 19.841 | 1.1277 |
| 355 | 50 | HDR unbiased | 20.879 | 18.301 | -2.5779 |
| 521 | 20 | HDR biased | 20.485 | 18.837 | -1.648 |
| 522 | 20 | HDR biased | 20.348 | 19.517 | -0.8304 |
| 523 | 20 | HDR biased | 19.287 | 19.11 | -0.1773 |
| 524 | 20 | HDR biased | 18.726 | 19.372 | 0.6454 |
| 525 | 20 | HDR biased | 20.329 | 18.302 | -2.027 |
| 531 | 30 | HDR biased | 18.958 | 19.738 | 0.7803 |
| 532 | 30 | HDR biased | 19.375 | 18.921 | -0.4538 |
| 533 | 30 | HDR biased | 20.375 | 19.867 | -0.5078 |
| 534 | 30 | HDR biased | 20.14 | 18.427 | -1.7124 |
| 535 | 30 | HDR biased | 20.862 | 18.305 | -2.5572 |
| 551 | 50 | HDR biased | 20.661 | 19.244 | -1.4171 |
| 552 | 50 | HDR biased | 19.433 | 19.688 | 0.2545 |
| 553 | 50 | HDR biased | 20.236 | 18.054 | -2.1821 |
| 554 | 50 | HDR biased | 19.142 | 19.099 | -0.0425 |
| 555 | 50 | HDR biased | 18.891 | 18.84 | -0.0505 |

TID vs Post - Pre Exposure Delta

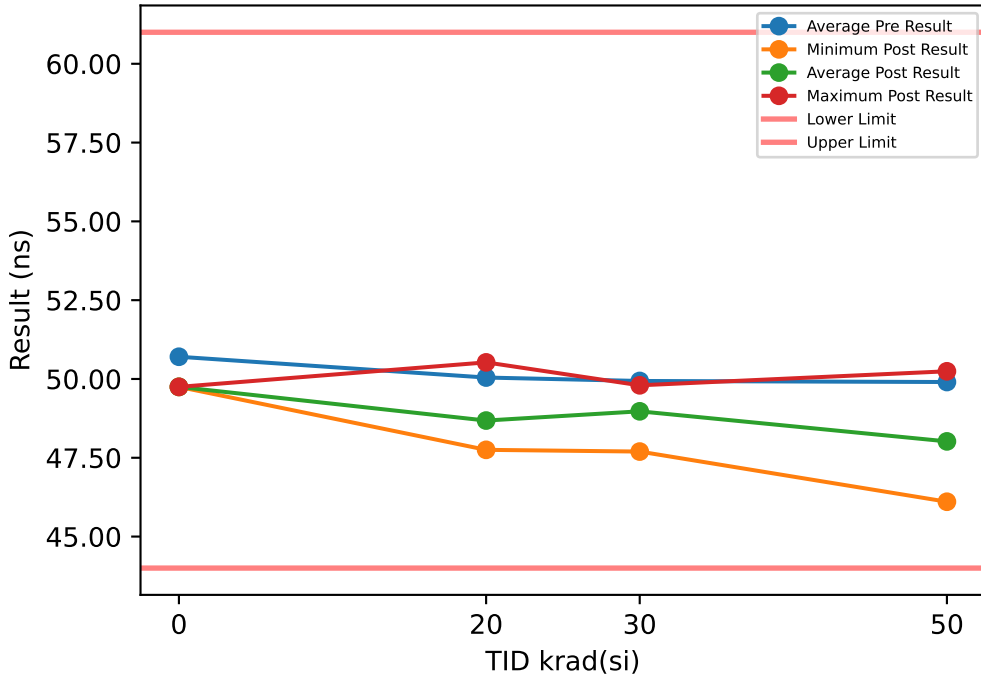


Test Statistics (ns)

| 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 | 19.152 | 19.152 | 19.152 | | 20.18 | 20.18 | 20.18 | | 1.0282 | 1.0282 | 1.0282 | |
| 20 | 18.726 | 19.951 | 20.896 | 0.80025 | 18.302 | 19.128 | 19.817 | 0.47 | -2.027 | -0.82269 | 0.9238 | 1.0878 |
| 30 | 18.958 | 19.922 | 20.959 | 0.74573 | 18.305 | 19.413 | 20.034 | 0.65889 | -2.5572 | -0.50939 | 0.7803 | 1.0716 |
| 50 | 18.713 | 19.836 | 20.884 | 0.87475 | 18.054 | 19.071 | 19.841 | 0.57116 | -2.5779 | -0.76507 | 1.1277 | 1.2614 |

Device Test: 96.27 T_RHL_LARGE(_DHL Dead Time Large 1MHz VIN_12V)

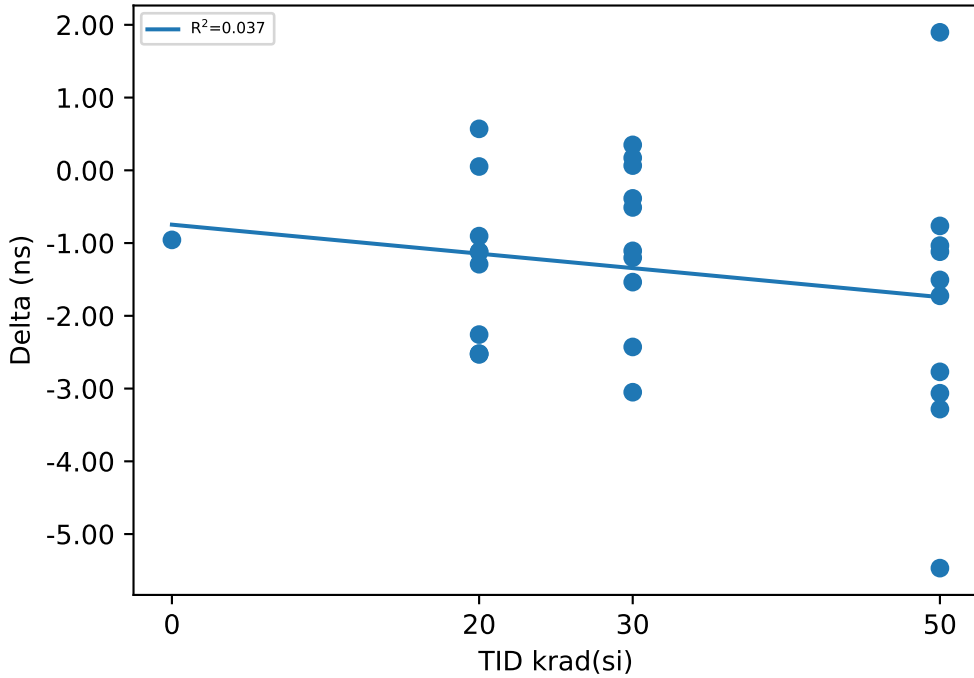
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 50.705 | 49.749 | -0.9562 |
| 321 | 20 | HDR unbiased | 51.33 | 48.807 | -2.5225 |
| 322 | 20 | HDR unbiased | 51.301 | 48.781 | -2.5198 |
| 323 | 20 | HDR unbiased | 48.788 | 47.884 | -0.9045 |
| 324 | 20 | HDR unbiased | 51.071 | 49.951 | -1.12 |
| 325 | 20 | HDR unbiased | 49.956 | 50.526 | 0.5702 |
| 331 | 30 | HDR unbiased | 48.822 | 48.993 | 0.1714 |
| 332 | 30 | HDR unbiased | 49.394 | 49.459 | 0.065 |
| 333 | 30 | HDR unbiased | 49.849 | 48.742 | -1.107 |
| 334 | 30 | HDR unbiased | 50.986 | 49.449 | -1.5369 |
| 335 | 30 | HDR unbiased | 51 | 49.799 | -1.2009 |
| 351 | 50 | HDR unbiased | 49.661 | 48.626 | -1.0344 |
| 352 | 50 | HDR unbiased | 51.742 | 48.678 | -3.064 |
| 353 | 50 | HDR unbiased | 50.583 | 48.857 | -1.7253 |
| 354 | 50 | HDR unbiased | 48.346 | 50.243 | 1.8971 |
| 355 | 50 | HDR unbiased | 52.369 | 46.901 | -5.4683 |
| 521 | 20 | HDR biased | 50.282 | 47.752 | -2.5306 |
| 522 | 20 | HDR biased | 49.237 | 47.946 | -1.2909 |
| 523 | 20 | HDR biased | 48.89 | 47.77 | -1.1199 |
| 524 | 20 | HDR biased | 49.044 | 49.096 | 0.0524 |
| 525 | 20 | HDR biased | 50.553 | 48.295 | -2.2578 |
| 531 | 30 | HDR biased | 48.712 | 49.062 | 0.3498 |
| 532 | 30 | HDR biased | 49.633 | 49.123 | -0.5103 |
| 533 | 30 | HDR biased | 49.881 | 49.495 | -0.3858 |
| 534 | 30 | HDR biased | 50.345 | 47.917 | -2.4278 |
| 535 | 30 | HDR biased | 50.747 | 47.697 | -3.0501 |
| 551 | 50 | HDR biased | 49.93 | 47.16 | -2.7701 |
| 552 | 50 | HDR biased | 48.693 | 47.929 | -0.7642 |
| 553 | 50 | HDR biased | 49.387 | 46.105 | -3.2823 |
| 554 | 50 | HDR biased | 49.289 | 48.17 | -1.1188 |
| 555 | 50 | HDR biased | 49.033 | 47.526 | -1.5065 |

TID vs Post - Pre Exposure Delta

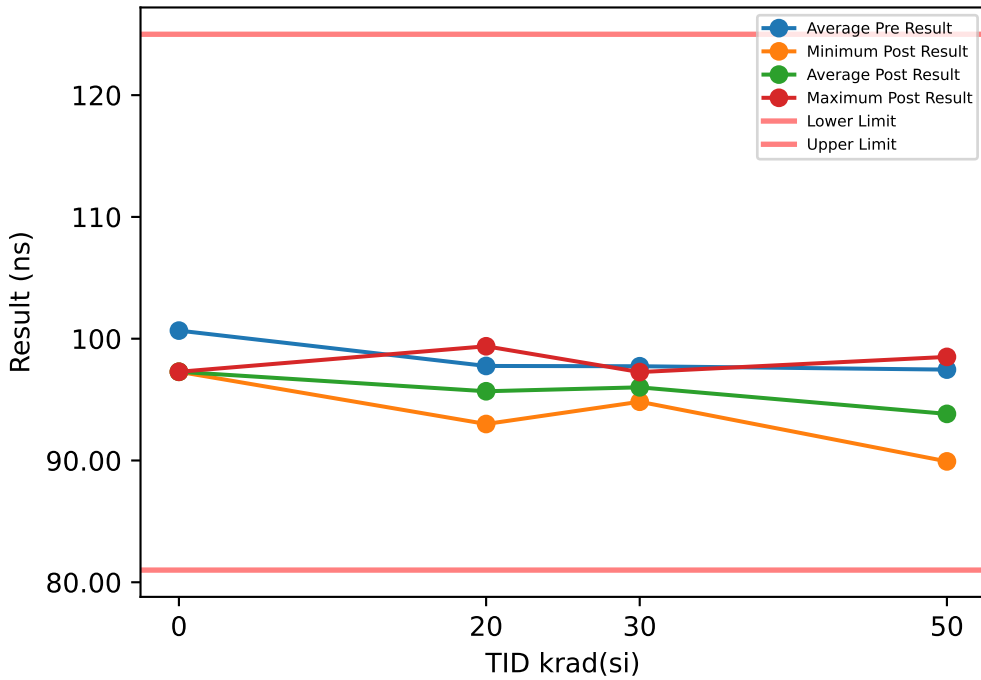


Test Statistics (ns)

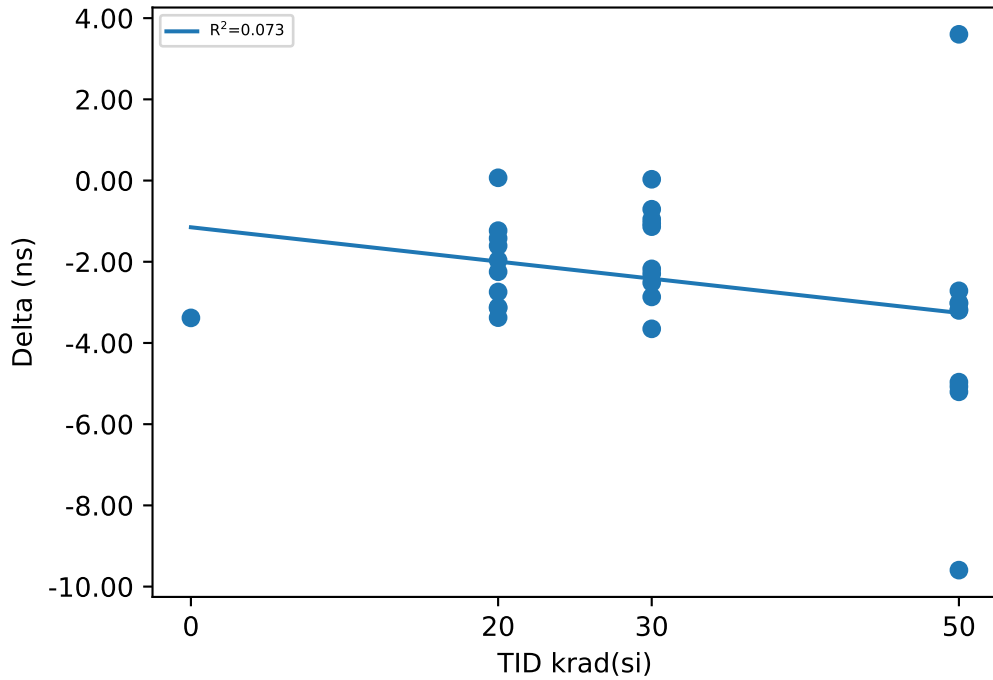
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 50.705 | 50.705 | 50.705 | | 49.749 | 49.749 | 49.749 | | -0.9562 | -0.9562 | -0.9562 | |
| 20 | 48.788 | 50.045 | 51.33 | 1.0093 | 47.752 | 48.681 | 50.526 | 0.95653 | -2.5306 | -1.3643 | 0.5702 | 1.1016 |
| 30 | 48.712 | 49.937 | 51 | 0.82957 | 47.697 | 48.974 | 49.799 | 0.68676 | -3.0501 | -0.96326 | 0.3498 | 1.1311 |
| 50 | 48.346 | 49.903 | 52.369 | 1.3026 | 46.105 | 48.02 | 50.243 | 1.1729 | -5.4683 | -1.8837 | 1.8971 | 1.9438 |

Device Test: 96.28 T_RHL_MAX(_DHL Dead Time Max 1MHz VIN_12V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

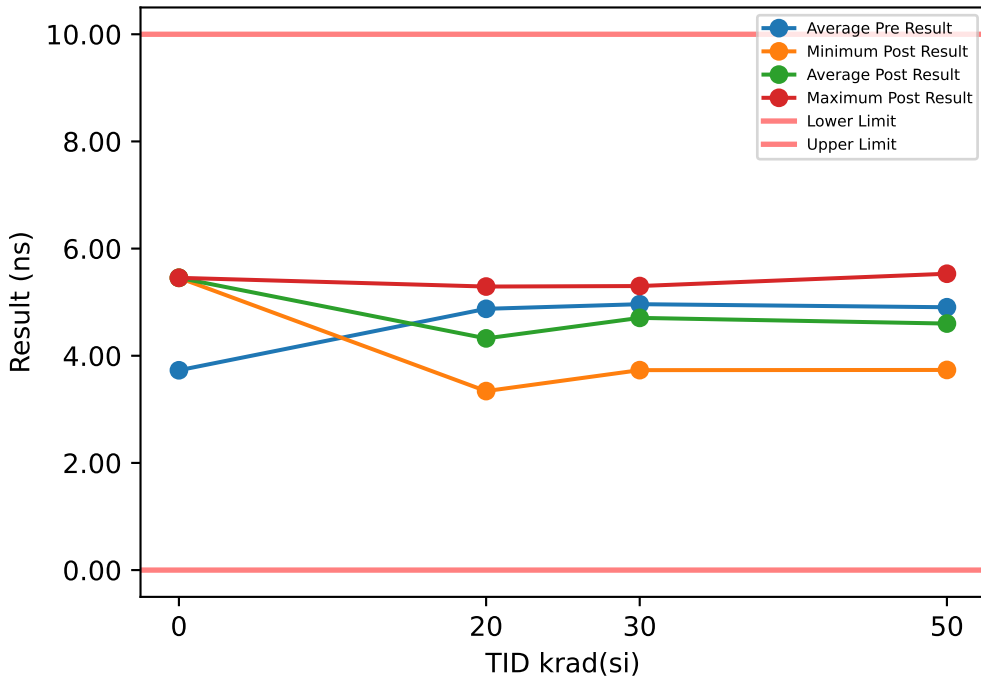
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 100.67 | 97.284 | -3.3824 |
| 321 | 20 | HDR unbiased | 98.965 | 95.846 | -3.1192 |
| 322 | 20 | HDR unbiased | 100.03 | 96.658 | -3.3764 |
| 323 | 20 | HDR unbiased | 95.803 | 94.196 | -1.6072 |
| 324 | 20 | HDR unbiased | 99.377 | 97.955 | -1.422 |
| 325 | 20 | HDR unbiased | 99.31 | 99.379 | 0.0682 |
| 331 | 30 | HDR unbiased | 96.133 | 95.079 | -1.054 |
| 332 | 30 | HDR unbiased | 97.3 | 96.165 | -1.1353 |
| 333 | 30 | HDR unbiased | 98.006 | 95.831 | -2.175 |
| 334 | 30 | HDR unbiased | 98.632 | 96.338 | -2.2943 |
| 335 | 30 | HDR unbiased | 99.379 | 96.865 | -2.5144 |
| 351 | 50 | HDR unbiased | 98.053 | 94.874 | -3.1791 |
| 352 | 50 | HDR unbiased | 101.11 | 96.043 | -5.0706 |
| 353 | 50 | HDR unbiased | 98.399 | 95.375 | -3.0244 |
| 354 | 50 | HDR unbiased | 94.904 | 98.506 | 3.6019 |
| 355 | 50 | HDR unbiased | 102.18 | 92.583 | -9.5946 |
| 521 | 20 | HDR biased | 97.21 | 94.072 | -3.1383 |
| 522 | 20 | HDR biased | 95.242 | 92.995 | -2.2463 |
| 523 | 20 | HDR biased | 95.806 | 93.843 | -1.963 |
| 524 | 20 | HDR biased | 97.383 | 96.149 | -1.2336 |
| 525 | 20 | HDR biased | 98.493 | 95.75 | -2.7431 |
| 531 | 30 | HDR biased | 96.418 | 95.712 | -0.7061 |
| 532 | 30 | HDR biased | 98.211 | 97.26 | -0.9508 |
| 533 | 30 | HDR biased | 97.072 | 97.104 | 0.0317 |
| 534 | 30 | HDR biased | 97.763 | 94.897 | -2.8656 |
| 535 | 30 | HDR biased | 98.476 | 94.824 | -3.6518 |
| 551 | 50 | HDR biased | 95.904 | 90.94 | -4.9648 |
| 552 | 50 | HDR biased | 95.187 | 92.472 | -2.7158 |
| 553 | 50 | HDR biased | 95.128 | 89.925 | -5.2029 |
| 554 | 50 | HDR biased | 97.043 | 93.844 | -3.1987 |
| 555 | 50 | HDR biased | 96.719 | 93.706 | -3.0124 |

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 | 100.67 | 100.67 | 100.67 | | 97.284 | 97.284 | 97.284 | | -3.3824 | -3.3824 | -3.3824 | |
| 20 | 95.242 | 97.762 | 100.03 | 1.7196 | 92.995 | 95.684 | 99.379 | 1.9842 | -3.3764 | -2.0781 | 0.0682 | 1.0723 |
| 30 | 96.133 | 97.739 | 99.379 | 1.0158 | 94.824 | 96.007 | 97.26 | 0.89785 | -3.6518 | -1.7316 | 0.0317 | 1.1394 |
| 50 | 94.904 | 97.463 | 102.18 | 2.5191 | 89.925 | 93.827 | 98.506 | 2.5222 | -9.5946 | -3.6361 | 3.6019 | 3.2691 |

Device Test: 96.29 T_RHL_MIN(_DHL Dead Time Min 2MHz VIN_12V)

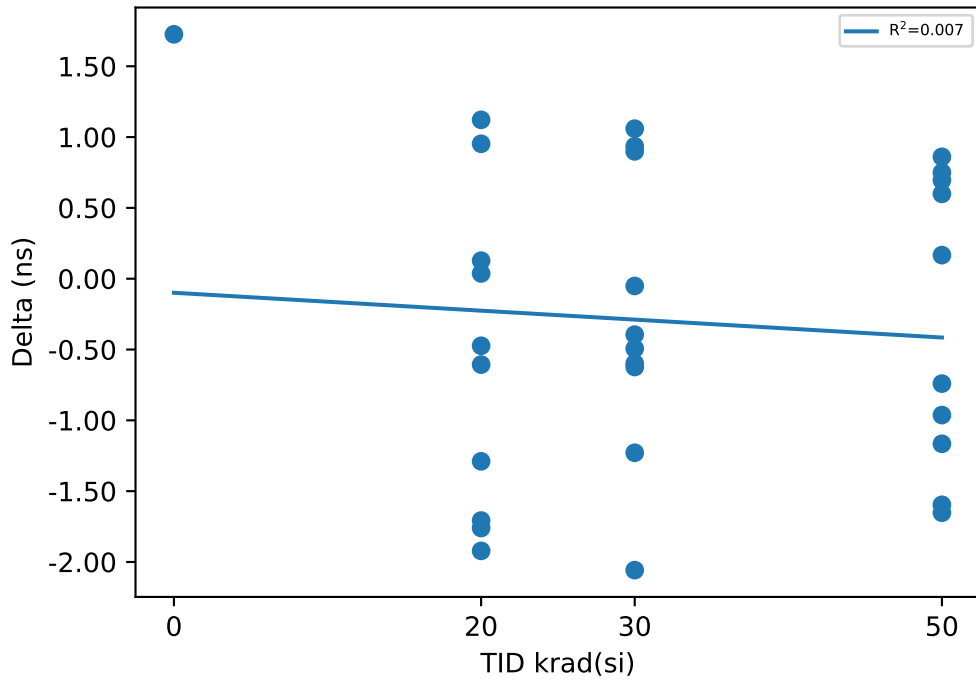
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.729 | 5.4546 | 1.7256 |
| 321 | 20 | HDR unbiased | 5.6718 | 3.9115 | -1.7603 |
| 322 | 20 | HDR unbiased | 5.4354 | 4.1461 | -1.2893 |
| 323 | 20 | HDR unbiased | 4.5026 | 4.5398 | 0.0372 |
| 324 | 20 | HDR unbiased | 5.0243 | 4.5508 | -0.4735 |
| 325 | 20 | HDR unbiased | 3.4594 | 4.5812 | 1.1218 |
| 331 | 30 | HDR unbiased | 4.118 | 5.1773 | 1.0593 |
| 332 | 30 | HDR unbiased | 4.4019 | 5.301 | 0.8991 |
| 333 | 30 | HDR unbiased | 4.2664 | 4.2152 | -0.0512 |
| 334 | 30 | HDR unbiased | 5.9025 | 5.279 | -0.6235 |
| 335 | 30 | HDR unbiased | 5.4761 | 4.9826 | -0.4935 |
| 351 | 50 | HDR unbiased | 3.9731 | 4.8337 | 0.8606 |
| 352 | 50 | HDR unbiased | 5.7605 | 4.1083 | -1.6522 |
| 353 | 50 | HDR unbiased | 5.4551 | 4.7145 | -0.7406 |
| 354 | 50 | HDR unbiased | 4.1625 | 4.9123 | 0.7498 |
| 355 | 50 | HDR unbiased | 5.6278 | 4.0315 | -1.5963 |
| 521 | 20 | HDR biased | 5.4857 | 3.7783 | -1.7074 |
| 522 | 20 | HDR biased | 5.898 | 5.2916 | -0.6064 |
| 523 | 20 | HDR biased | 4.547 | 4.6745 | 0.1275 |
| 524 | 20 | HDR biased | 3.4733 | 4.426 | 0.9527 |
| 525 | 20 | HDR biased | 5.2622 | 3.3406 | -1.9216 |
| 531 | 30 | HDR biased | 4.2493 | 5.1843 | 0.935 |
| 532 | 30 | HDR biased | 4.3263 | 3.9316 | -0.3947 |
| 533 | 30 | HDR biased | 5.7303 | 5.1314 | -0.5989 |
| 534 | 30 | HDR biased | 5.3644 | 4.1355 | -1.2289 |
| 535 | 30 | HDR biased | 5.7891 | 3.7315 | -2.0576 |
| 551 | 50 | HDR biased | 6.3214 | 5.3587 | -0.9627 |
| 552 | 50 | HDR biased | 4.9315 | 5.5306 | 0.5991 |
| 553 | 50 | HDR biased | 5.4043 | 4.2387 | -1.1656 |
| 554 | 50 | HDR biased | 3.8503 | 4.5453 | 0.695 |
| 555 | 50 | HDR biased | 3.5685 | 3.735 | 0.1665 |

TID vs Post - Pre Exposure Delta

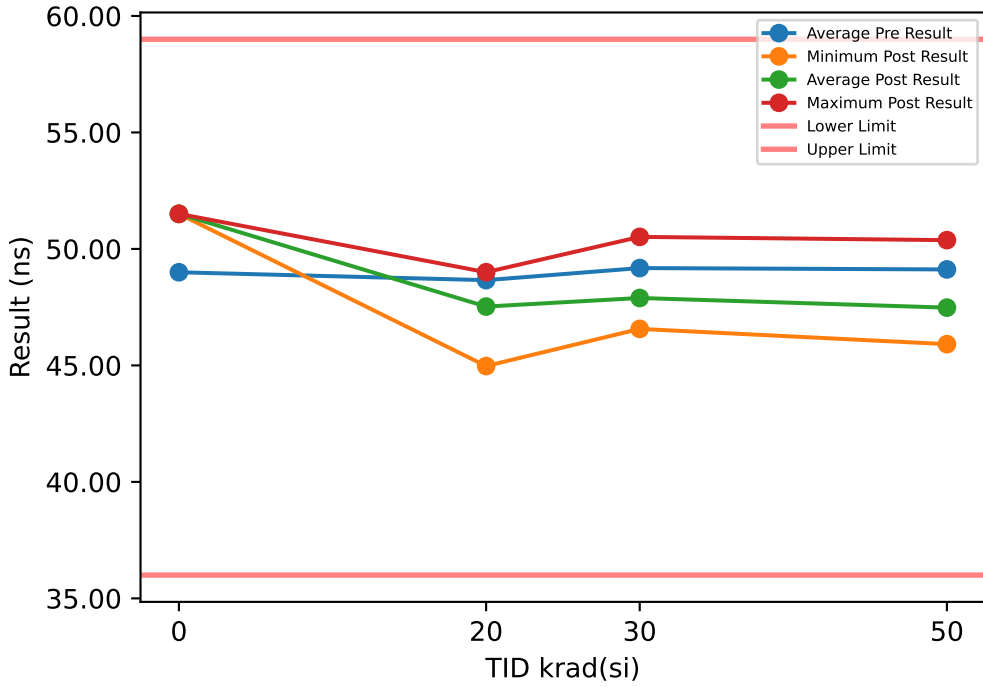


Test Statistics (ns)

| 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 | 3.729 | 3.729 | 3.729 | | 5.4546 | 5.4546 | 5.4546 | | 1.7256 | 1.7256 | 1.7256 | |
| 20 | 3.4594 | 4.876 | 5.898 | 0.86638 | 3.3406 | 4.324 | 5.2916 | 0.54776 | -1.9216 | -0.55193 | 1.1218 | 1.1105 |
| 30 | 4.118 | 4.9624 | 5.9025 | 0.74589 | 3.7315 | 4.7069 | 5.301 | 0.62418 | -2.0576 | -0.25549 | 1.0593 | 1.0025 |
| 50 | 3.5685 | 4.9055 | 6.3214 | 0.95053 | 3.735 | 4.6009 | 5.5306 | 0.58249 | -1.6522 | -0.30464 | 0.8606 | 1.0196 |

Device Test: 96.3 T_RLH_LARGE(_DLHDead Time Large 500kHz VIN_12V)

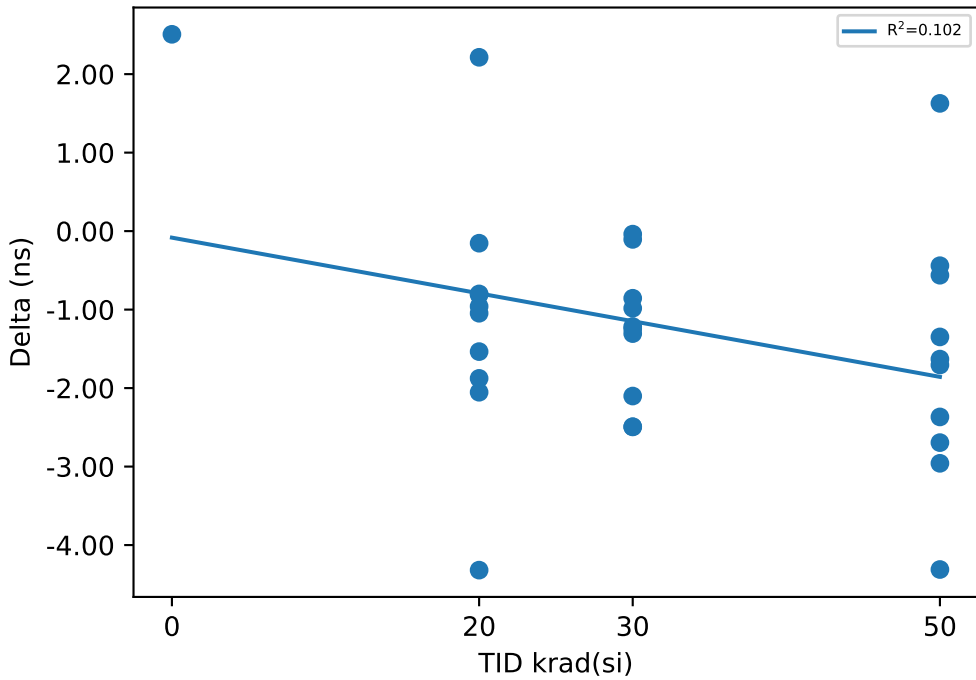
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 48.998 | 51.506 | 2.5074 |
| 321 | 20 | HDR unbiased | 48.834 | 47.299 | -1.5352 |
| 322 | 20 | HDR unbiased | 49.083 | 47.207 | -1.8762 |
| 323 | 20 | HDR unbiased | 49.059 | 48.1 | -0.9591 |
| 324 | 20 | HDR unbiased | 49.023 | 48.222 | -0.8002 |
| 325 | 20 | HDR unbiased | 47.589 | 47.435 | -0.1541 |
| 331 | 30 | HDR unbiased | 47.923 | 47.818 | -0.1055 |
| 332 | 30 | HDR unbiased | 50.556 | 50.517 | -0.0385 |
| 333 | 30 | HDR unbiased | 47.848 | 46.865 | -0.9827 |
| 334 | 30 | HDR unbiased | 48.721 | 47.475 | -1.2458 |
| 335 | 30 | HDR unbiased | 49.176 | 47.96 | -1.2159 |
| 351 | 50 | HDR unbiased | 47.352 | 48.98 | 1.6274 |
| 352 | 50 | HDR unbiased | 49.484 | 46.789 | -2.6947 |
| 353 | 50 | HDR unbiased | 51.012 | 46.7 | -4.3114 |
| 354 | 50 | HDR unbiased | 48.255 | 46.549 | -1.7057 |
| 355 | 50 | HDR unbiased | 48.629 | 46.262 | -2.3675 |
| 521 | 20 | HDR biased | 48.949 | 46.896 | -2.0529 |
| 522 | 20 | HDR biased | 49.811 | 49.001 | -0.8096 |
| 523 | 20 | HDR biased | 48.495 | 47.449 | -1.0465 |
| 524 | 20 | HDR biased | 46.463 | 48.677 | 2.2146 |
| 525 | 20 | HDR biased | 49.292 | 44.973 | -4.3194 |
| 531 | 30 | HDR biased | 48.816 | 47.961 | -0.8554 |
| 532 | 30 | HDR biased | 48.669 | 46.568 | -2.1013 |
| 533 | 30 | HDR biased | 51.025 | 48.532 | -2.4925 |
| 534 | 30 | HDR biased | 50.013 | 47.519 | -2.4942 |
| 535 | 30 | HDR biased | 49.037 | 47.731 | -1.3058 |
| 551 | 50 | HDR biased | 49.047 | 47.699 | -1.3481 |
| 552 | 50 | HDR biased | 50.818 | 50.378 | -0.4407 |
| 553 | 50 | HDR biased | 48.871 | 45.913 | -2.9584 |
| 554 | 50 | HDR biased | 48.321 | 47.759 | -0.5621 |
| 555 | 50 | HDR biased | 49.409 | 47.778 | -1.6307 |

TID vs Post - Pre Exposure Delta

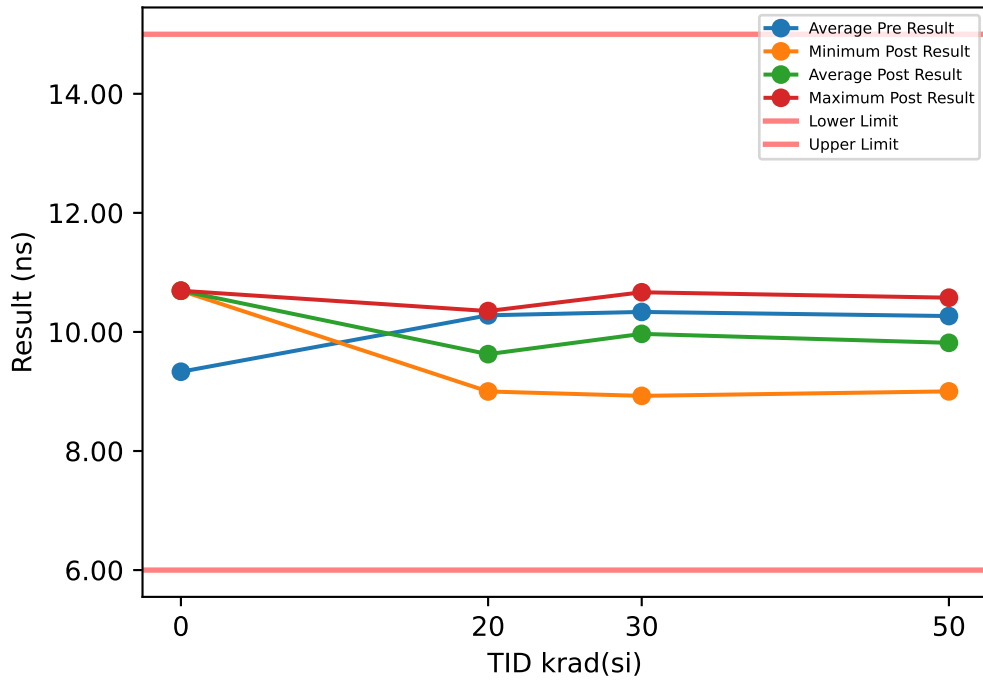


Test Statistics (ns)

| 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 | 48.998 | 48.998 | 48.998 | | 51.506 | 51.506 | 51.506 | | 2.5074 | 2.5074 | 2.5074 | |
| 20 | 46.463 | 48.66 | 49.811 | 0.9609 | 44.973 | 47.526 | 49.001 | 1.1255 | -4.3194 | -1.1339 | 2.2146 | 1.6375 |
| 30 | 47.848 | 49.178 | 51.025 | 1.0524 | 46.568 | 47.895 | 50.517 | 1.0782 | -2.4942 | -1.2838 | -0.0385 | 0.87014 |
| 50 | 47.352 | 49.12 | 51.012 | 1.1304 | 45.913 | 47.481 | 50.378 | 1.3643 | -4.3114 | -1.6392 | 1.6274 | 1.629 |

Device Test: 96.30 T_RHL_SMALL(_DHL Dead Time Small 2MHz VIN_12V)

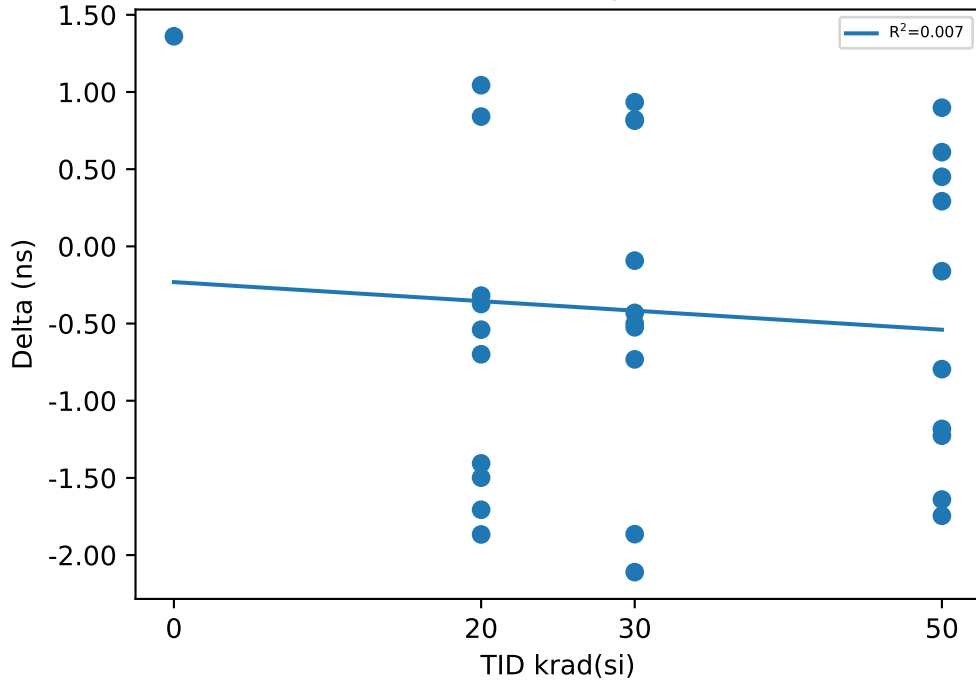
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.3314 | 10.692 | 1.3608 |
| 321 | 20 | HDR unbiased | 11.231 | 9.8252 | -1.4059 |
| 322 | 20 | HDR unbiased | 10.866 | 9.0001 | -1.8662 |
| 323 | 20 | HDR unbiased | 9.9435 | 9.6244 | -0.3191 |
| 324 | 20 | HDR unbiased | 10.526 | 9.9866 | -0.5397 |
| 325 | 20 | HDR unbiased | 9.0631 | 10.107 | 1.044 |
| 331 | 30 | HDR unbiased | 9.4618 | 10.284 | 0.8222 |
| 332 | 30 | HDR unbiased | 9.7322 | 10.666 | 0.9341 |
| 333 | 30 | HDR unbiased | 9.8078 | 9.7154 | -0.0924 |
| 334 | 30 | HDR unbiased | 11.238 | 10.506 | -0.7321 |
| 335 | 30 | HDR unbiased | 10.806 | 10.281 | -0.5243 |
| 351 | 50 | HDR unbiased | 9.476 | 10.086 | 0.6102 |
| 352 | 50 | HDR unbiased | 11.047 | 9.3013 | -1.7454 |
| 353 | 50 | HDR unbiased | 10.838 | 10.043 | -0.7953 |
| 354 | 50 | HDR unbiased | 9.3625 | 10.261 | 0.8984 |
| 355 | 50 | HDR unbiased | 10.917 | 9.2773 | -1.6401 |
| 521 | 20 | HDR biased | 10.772 | 9.0658 | -1.7063 |
| 522 | 20 | HDR biased | 11.05 | 10.351 | -0.6991 |
| 523 | 20 | HDR biased | 9.8406 | 9.467 | -0.3736 |
| 524 | 20 | HDR biased | 8.897 | 9.7378 | 0.8408 |
| 525 | 20 | HDR biased | 10.604 | 9.1053 | -1.4984 |
| 531 | 30 | HDR biased | 9.5863 | 10.401 | 0.8143 |
| 532 | 30 | HDR biased | 9.7659 | 9.2656 | -0.5003 |
| 533 | 30 | HDR biased | 10.906 | 10.475 | -0.4309 |
| 534 | 30 | HDR biased | 10.79 | 8.9262 | -1.8643 |
| 535 | 30 | HDR biased | 11.267 | 9.1563 | -2.1104 |
| 551 | 50 | HDR biased | 11.511 | 10.284 | -1.2265 |
| 552 | 50 | HDR biased | 10.125 | 10.575 | 0.4507 |
| 553 | 50 | HDR biased | 10.787 | 9.6039 | -1.1826 |
| 554 | 50 | HDR biased | 9.4437 | 9.7363 | 0.2926 |
| 555 | 50 | HDR biased | 9.1626 | 9.0016 | -0.161 |

TID vs Post - Pre Exposure Delta

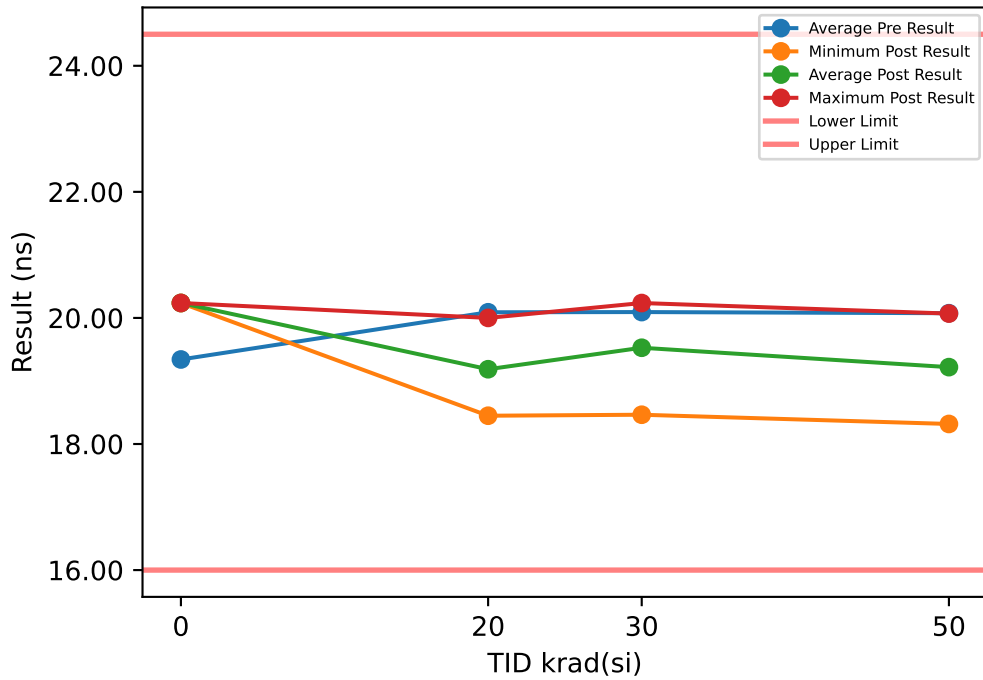


Test Statistics (ns)

| 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 | 9.3314 | 9.3314 | 9.3314 | | 10.692 | 10.692 | 10.692 | | 1.3608 | 1.3608 | 1.3608 | |
| 20 | 8.897 | 10.279 | 11.231 | 0.813 | 9.0001 | 9.627 | 10.351 | 0.46441 | -1.8662 | -0.65235 | 1.044 | 1.0099 |
| 30 | 9.4618 | 10.336 | 11.267 | 0.72464 | 8.9262 | 9.9676 | 10.666 | 0.64292 | -2.1104 | -0.36841 | 0.9341 | 1.0562 |
| 50 | 9.1626 | 10.267 | 11.511 | 0.85213 | 9.0016 | 9.817 | 10.575 | 0.51509 | -1.7454 | -0.4499 | 0.8984 | 0.98555 |

Device Test: 96.31 T_RHL_MID(_DHL Dead Time Mid 2MHz VIN_12V)

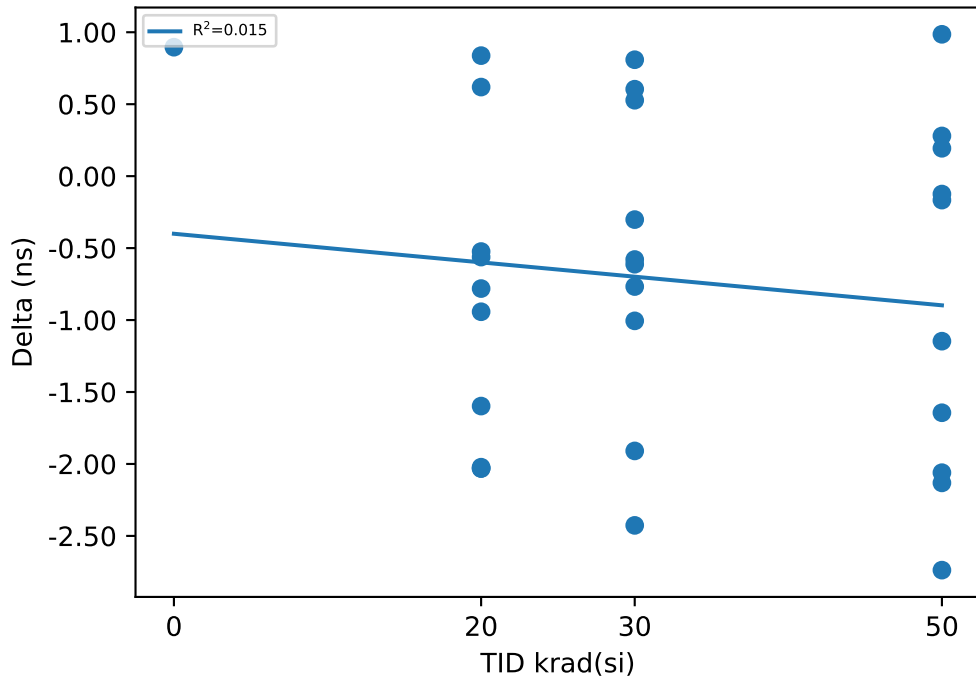
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.341 | 20.237 | 0.896 |
| 321 | 20 | HDR unbiased | 21.119 | 19.088 | -2.0318 |
| 322 | 20 | HDR unbiased | 20.898 | 18.867 | -2.0305 |
| 323 | 20 | HDR unbiased | 19.603 | 19.079 | -0.5239 |
| 324 | 20 | HDR unbiased | 20.612 | 19.831 | -0.7812 |
| 325 | 20 | HDR unbiased | 19.163 | 20 | 0.8375 |
| 331 | 30 | HDR unbiased | 19.271 | 19.799 | 0.5275 |
| 332 | 30 | HDR unbiased | 19.632 | 20.236 | 0.6042 |
| 333 | 30 | HDR unbiased | 19.591 | 19.29 | -0.3019 |
| 334 | 30 | HDR unbiased | 21.097 | 20.091 | -1.0056 |
| 335 | 30 | HDR unbiased | 20.725 | 19.957 | -0.7672 |
| 351 | 50 | HDR unbiased | 19.334 | 19.613 | 0.2793 |
| 352 | 50 | HDR unbiased | 21.105 | 18.973 | -2.1315 |
| 353 | 50 | HDR unbiased | 20.681 | 19.534 | -1.1468 |
| 354 | 50 | HDR unbiased | 19.084 | 20.069 | 0.9856 |
| 355 | 50 | HDR unbiased | 21.133 | 18.395 | -2.7378 |
| 521 | 20 | HDR biased | 20.635 | 18.612 | -2.0224 |
| 522 | 20 | HDR biased | 20.555 | 19.613 | -0.9423 |
| 523 | 20 | HDR biased | 19.49 | 18.928 | -0.5624 |
| 524 | 20 | HDR biased | 18.777 | 19.396 | 0.619 |
| 525 | 20 | HDR biased | 20.046 | 18.449 | -1.5977 |
| 531 | 30 | HDR biased | 19.07 | 19.879 | 0.809 |
| 532 | 30 | HDR biased | 19.624 | 19.012 | -0.6121 |
| 533 | 30 | HDR biased | 20.577 | 19.998 | -0.5793 |
| 534 | 30 | HDR biased | 20.452 | 18.542 | -1.9094 |
| 535 | 30 | HDR biased | 20.891 | 18.464 | -2.4268 |
| 551 | 50 | HDR biased | 21.119 | 19.475 | -1.6441 |
| 552 | 50 | HDR biased | 19.532 | 19.726 | 0.1936 |
| 553 | 50 | HDR biased | 20.379 | 18.318 | -2.0606 |
| 554 | 50 | HDR biased | 19.302 | 19.178 | -0.1244 |
| 555 | 50 | HDR biased | 19.081 | 18.915 | -0.1665 |

TID vs Post - Pre Exposure Delta

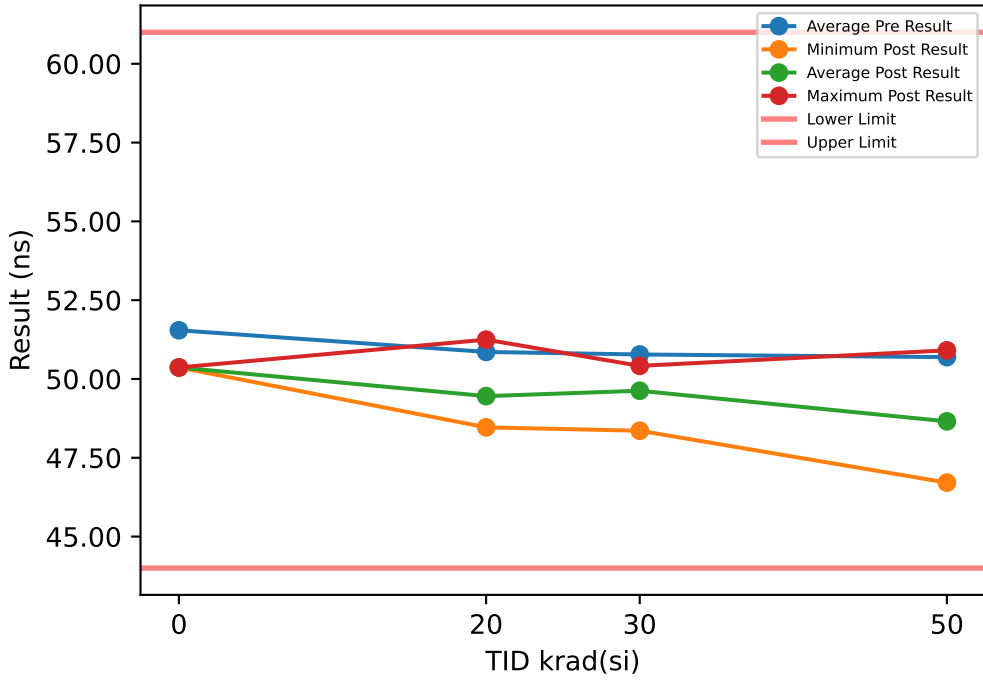


Test Statistics (ns)

| 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 | 19.341 | 19.341 | 19.341 | | 20.237 | 20.237 | 20.237 | | 0.896 | 0.896 | 0.896 | |
| 20 | 18.777 | 20.09 | 21.119 | 0.7945 | 18.449 | 19.186 | 20 | 0.51293 | -2.0318 | -0.90357 | 0.8375 | 1.049 |
| 30 | 19.07 | 20.093 | 21.097 | 0.73117 | 18.464 | 19.527 | 20.236 | 0.65374 | -2.4268 | -0.56616 | 0.809 | 1.0556 |
| 50 | 19.081 | 20.075 | 21.133 | 0.89074 | 18.318 | 19.22 | 20.069 | 0.572 | -2.7378 | -0.85532 | 0.9856 | 1.2524 |

Device Test: 96.32 T_RHL_LARGE(_DHL Dead Time Large 2MHz VIN_12V)

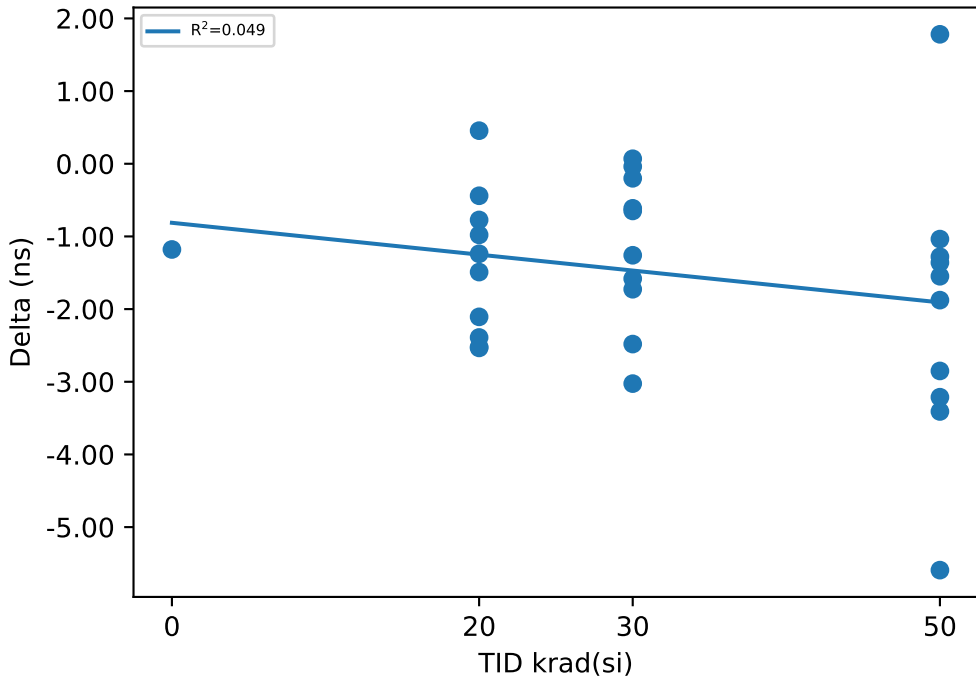
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 51.545 | 50.366 | -1.1794 |
| 321 | 20 | HDR unbiased | 52.075 | 49.541 | -2.5338 |
| 322 | 20 | HDR unbiased | 52.034 | 49.928 | -2.1066 |
| 323 | 20 | HDR unbiased | 49.583 | 48.604 | -0.9788 |
| 324 | 20 | HDR unbiased | 51.954 | 50.715 | -1.2388 |
| 325 | 20 | HDR unbiased | 50.793 | 51.248 | 0.4554 |
| 331 | 30 | HDR unbiased | 49.73 | 49.53 | -0.2001 |
| 332 | 30 | HDR unbiased | 50.237 | 50.2 | -0.0379 |
| 333 | 30 | HDR unbiased | 50.761 | 49.502 | -1.2592 |
| 334 | 30 | HDR unbiased | 51.846 | 50.12 | -1.7267 |
| 335 | 30 | HDR unbiased | 51.998 | 50.416 | -1.5816 |
| 351 | 50 | HDR unbiased | 50.501 | 49.222 | -1.2791 |
| 352 | 50 | HDR unbiased | 52.566 | 49.354 | -3.2124 |
| 353 | 50 | HDR unbiased | 51.413 | 49.536 | -1.8766 |
| 354 | 50 | HDR unbiased | 49.127 | 50.908 | 1.7814 |
| 355 | 50 | HDR unbiased | 53.207 | 47.615 | -5.5921 |
| 521 | 20 | HDR biased | 50.986 | 48.465 | -2.5214 |
| 522 | 20 | HDR biased | 49.957 | 48.467 | -1.4905 |
| 523 | 20 | HDR biased | 49.71 | 48.937 | -0.7732 |
| 524 | 20 | HDR biased | 50.121 | 49.681 | -0.4403 |
| 525 | 20 | HDR biased | 51.36 | 48.969 | -2.3904 |
| 531 | 30 | HDR biased | 49.6 | 49.669 | 0.0689 |
| 532 | 30 | HDR biased | 50.381 | 49.768 | -0.6132 |
| 533 | 30 | HDR biased | 50.752 | 50.103 | -0.6491 |
| 534 | 30 | HDR biased | 51.082 | 48.6 | -2.4812 |
| 535 | 30 | HDR biased | 51.383 | 48.357 | -3.0253 |
| 551 | 50 | HDR biased | 50.615 | 47.764 | -2.8511 |
| 552 | 50 | HDR biased | 49.441 | 48.405 | -1.0366 |
| 553 | 50 | HDR biased | 50.12 | 46.711 | -3.4086 |
| 554 | 50 | HDR biased | 50.139 | 48.779 | -1.3598 |
| 555 | 50 | HDR biased | 49.803 | 48.255 | -1.5481 |

TID vs Post - Pre Exposure Delta

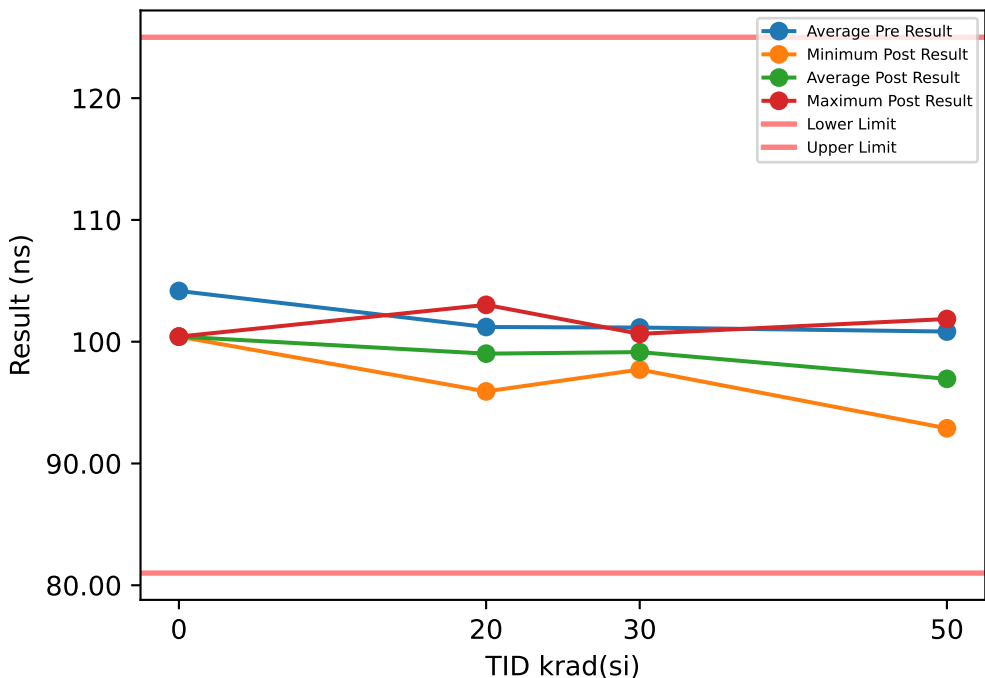


Test Statistics (ns)

| 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 | 51.545 | 51.545 | 51.545 | | 50.366 | 50.366 | 50.366 | | -1.1794 | -1.1794 | -1.1794 | |
| 20 | 49.583 | 50.857 | 52.075 | 0.97949 | 48.465 | 49.455 | 51.248 | 0.95854 | -2.5338 | -1.4018 | 0.4554 | 0.99951 |
| 30 | 49.6 | 50.777 | 51.998 | 0.81802 | 48.357 | 49.626 | 50.416 | 0.67757 | -3.0253 | -1.1505 | 0.0689 | 1.0532 |
| 50 | 49.127 | 50.693 | 53.207 | 1.3266 | 46.711 | 48.655 | 50.908 | 1.1811 | -5.5921 | -2.0383 | 1.7814 | 1.9277 |

Device Test: 96.33 T_RHL_MAX(_DHL Dead Time Max 2MHz VIN_12V)

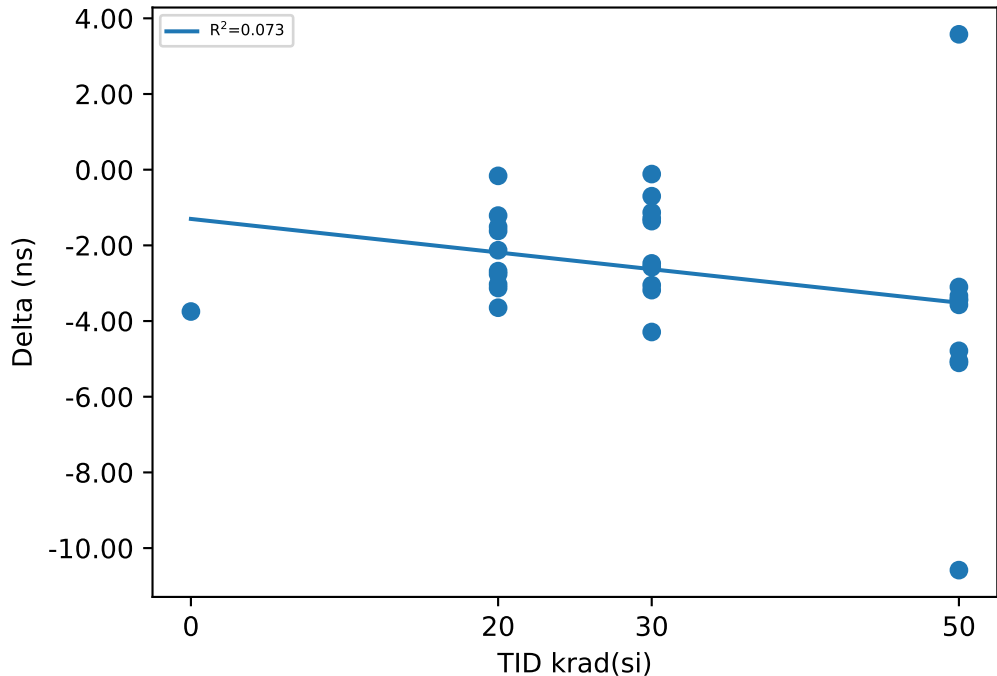
TID vs Result Stats



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 104.17 | 100.42 | -3.7479 |
| 321 | 20 | HDR unbiased | 102.29 | 99.167 | -3.1273 |
| 322 | 20 | HDR unbiased | 103.73 | 100.08 | -3.6475 |
| 323 | 20 | HDR unbiased | 98.743 | 97.531 | -1.2126 |
| 324 | 20 | HDR unbiased | 102.87 | 101.36 | -1.5091 |
| 325 | 20 | HDR unbiased | 103.19 | 103.03 | -0.163 |
| 331 | 30 | HDR unbiased | 99.568 | 98.209 | -1.3592 |
| 332 | 30 | HDR unbiased | 100.76 | 99.481 | -1.283 |
| 333 | 30 | HDR unbiased | 101.58 | 99.103 | -2.4762 |
| 334 | 30 | HDR unbiased | 102.09 | 99.516 | -2.5779 |
| 335 | 30 | HDR unbiased | 103.13 | 99.947 | -3.1826 |
| 351 | 50 | HDR unbiased | 101.63 | 98.061 | -3.572 |
| 352 | 50 | HDR unbiased | 104.74 | 99.951 | -4.7869 |
| 353 | 50 | HDR unbiased | 102.06 | 98.608 | -3.4496 |
| 354 | 50 | HDR unbiased | 98.287 | 101.87 | 3.5777 |
| 355 | 50 | HDR unbiased | 105.92 | 95.335 | -10.582 |
| 521 | 20 | HDR biased | 100.56 | 97.801 | -2.7608 |
| 522 | 20 | HDR biased | 98.598 | 95.917 | -2.6804 |
| 523 | 20 | HDR biased | 99.101 | 96.972 | -2.1285 |
| 524 | 20 | HDR biased | 100.94 | 99.32 | -1.6183 |
| 525 | 20 | HDR biased | 102.04 | 99.01 | -3.0292 |
| 531 | 30 | HDR biased | 99.925 | 98.795 | -1.1304 |
| 532 | 30 | HDR biased | 101.35 | 100.65 | -0.7002 |
| 533 | 30 | HDR biased | 100.32 | 100.21 | -0.1156 |
| 534 | 30 | HDR biased | 100.91 | 97.857 | -3.0512 |
| 535 | 30 | HDR biased | 102 | 97.713 | -4.2892 |
| 551 | 50 | HDR biased | 98.813 | 93.708 | -5.1048 |
| 552 | 50 | HDR biased | 98.386 | 95.286 | -3.0997 |
| 553 | 50 | HDR biased | 97.944 | 92.89 | -5.0545 |
| 554 | 50 | HDR biased | 100.35 | 96.926 | -3.423 |
| 555 | 50 | HDR biased | 100.21 | 96.88 | -3.3332 |

TID vs Post - Pre Exposure Delta

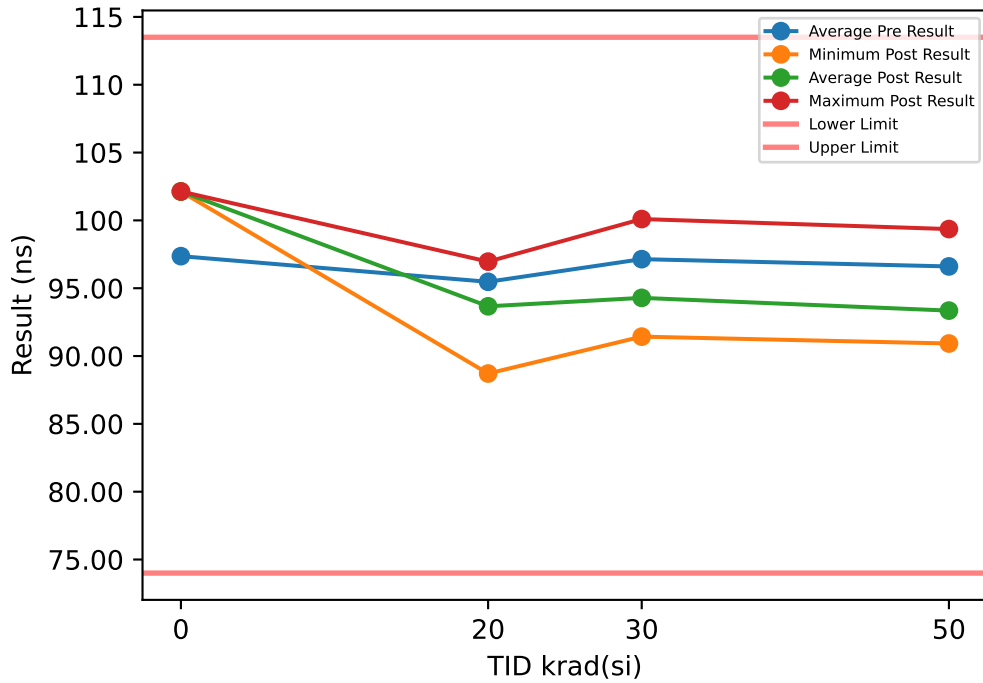


Test Statistics (ns)

| 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 | 104.17 | 104.17 | 104.17 | | 100.42 | 100.42 | 100.42 | | -3.7479 | -3.7479 | -3.7479 | |
| 20 | 98.598 | 101.21 | 103.73 | 1.9067 | 95.917 | 99.018 | 103.03 | 2.1155 | -3.6475 | -2.1877 | -0.163 | 1.061 |
| 30 | 99.568 | 101.16 | 103.13 | 1.0881 | 97.713 | 99.147 | 100.65 | 0.99901 | -4.2892 | -2.0165 | -0.1156 | 1.3006 |
| 50 | 97.944 | 100.83 | 105.92 | 2.7641 | 92.89 | 96.951 | 101.87 | 2.7795 | -10.582 | -3.8828 | 3.5777 | 3.426 |

Device Test: 96.4 T_RLH_MAX(_DLH Dead Time Max 500kHz VIN_12V)

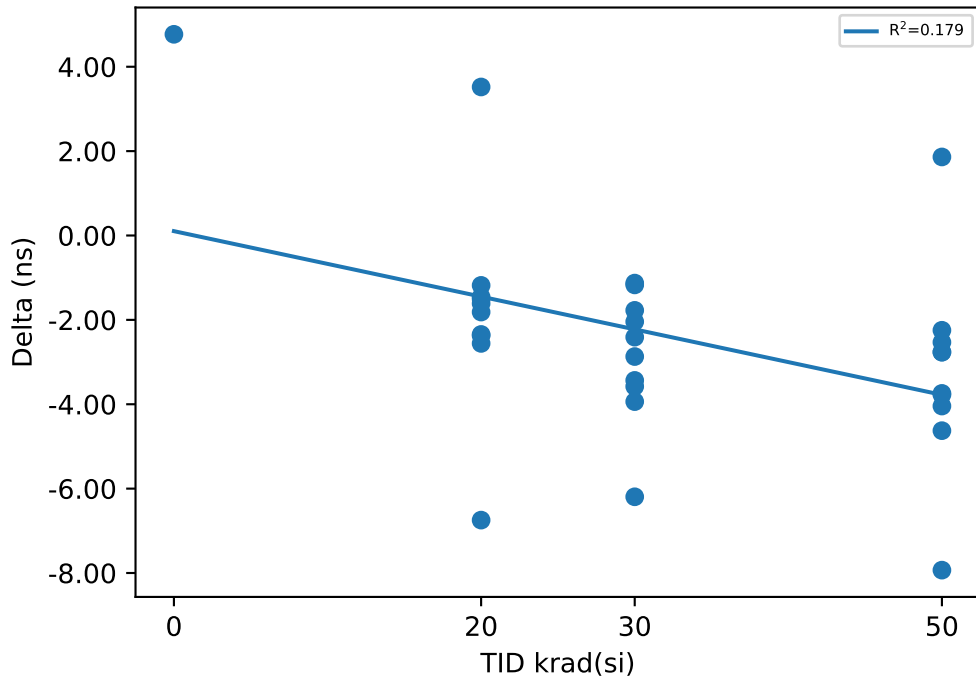
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 97.362 | 102.13 | 4.7689 |
| 321 | 20 | HDR unbiased | 94.324 | 91.953 | -2.3707 |
| 322 | 20 | HDR unbiased | 96.449 | 94.103 | -2.3458 |
| 323 | 20 | HDR unbiased | 98.774 | 96.96 | -1.8145 |
| 324 | 20 | HDR unbiased | 96.132 | 94.52 | -1.6124 |
| 325 | 20 | HDR unbiased | 94.661 | 93.478 | -1.1823 |
| 331 | 30 | HDR unbiased | 94.354 | 93.226 | -1.1281 |
| 332 | 30 | HDR unbiased | 101.87 | 100.1 | -1.7743 |
| 333 | 30 | HDR unbiased | 94.3 | 91.43 | -2.8694 |
| 334 | 30 | HDR unbiased | 95.243 | 93.201 | -2.0423 |
| 335 | 30 | HDR unbiased | 97.574 | 95.165 | -2.4095 |
| 351 | 50 | HDR unbiased | 93.448 | 95.309 | 1.8618 |
| 352 | 50 | HDR unbiased | 96.182 | 92.44 | -3.7427 |
| 353 | 50 | HDR unbiased | 98.857 | 90.925 | -7.9321 |
| 354 | 50 | HDR unbiased | 95.094 | 91.32 | -3.7739 |
| 355 | 50 | HDR unbiased | 95.458 | 91.416 | -4.0425 |
| 521 | 20 | HDR biased | 95.237 | 92.679 | -2.5579 |
| 522 | 20 | HDR biased | 98.113 | 96.657 | -1.4563 |
| 523 | 20 | HDR biased | 94.839 | 93.335 | -1.5046 |
| 524 | 20 | HDR biased | 90.745 | 94.265 | 3.5206 |
| 525 | 20 | HDR biased | 95.457 | 88.711 | -6.7463 |
| 531 | 30 | HDR biased | 97.628 | 93.69 | -3.9376 |
| 532 | 30 | HDR biased | 95.861 | 92.426 | -3.4347 |
| 533 | 30 | HDR biased | 100.79 | 94.597 | -6.1935 |
| 534 | 30 | HDR biased | 97.633 | 94.055 | -3.5779 |
| 535 | 30 | HDR biased | 96.165 | 94.994 | -1.171 |
| 551 | 50 | HDR biased | 96.129 | 93.362 | -2.7662 |
| 552 | 50 | HDR biased | 101.89 | 99.361 | -2.5311 |
| 553 | 50 | HDR biased | 95.885 | 91.259 | -4.6261 |
| 554 | 50 | HDR biased | 95.285 | 93.039 | -2.2463 |
| 555 | 50 | HDR biased | 97.829 | 95.067 | -2.7618 |

TID vs Post - Pre Exposure Delta

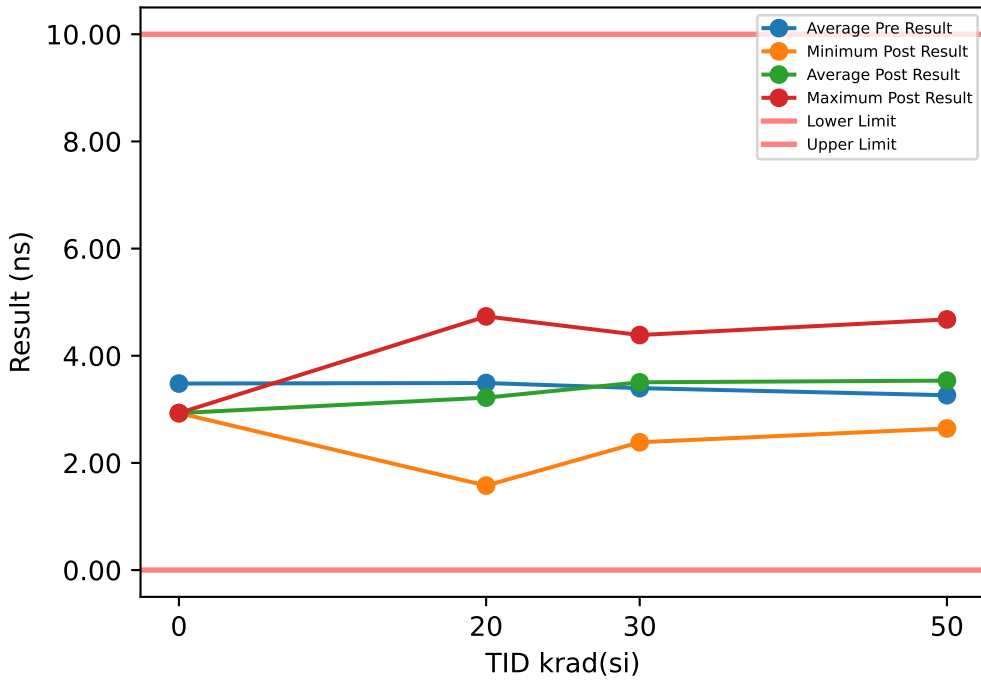


Test Statistics (ns)

| 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 | 97.362 | 97.362 | 97.362 | | 102.13 | 102.13 | 102.13 | | 4.7689 | 4.7689 | 4.7689 | |
| 20 | 90.745 | 95.473 | 98.774 | 2.2124 | 88.711 | 93.666 | 96.96 | 2.3494 | -6.7463 | -1.807 | 3.5206 | 2.4629 |
| 30 | 94.3 | 97.142 | 101.87 | 2.5476 | 91.43 | 94.288 | 100.1 | 2.3448 | -6.1935 | -2.8538 | -1.1281 | 1.5283 |
| 50 | 93.448 | 96.606 | 101.89 | 2.3746 | 90.925 | 93.35 | 99.361 | 2.6237 | -7.9321 | -3.2561 | 1.8618 | 2.4287 |

Device Test: 96.5 T_RLH_MIN(_DLH Dead Time Min 1MHz VIN_12V)

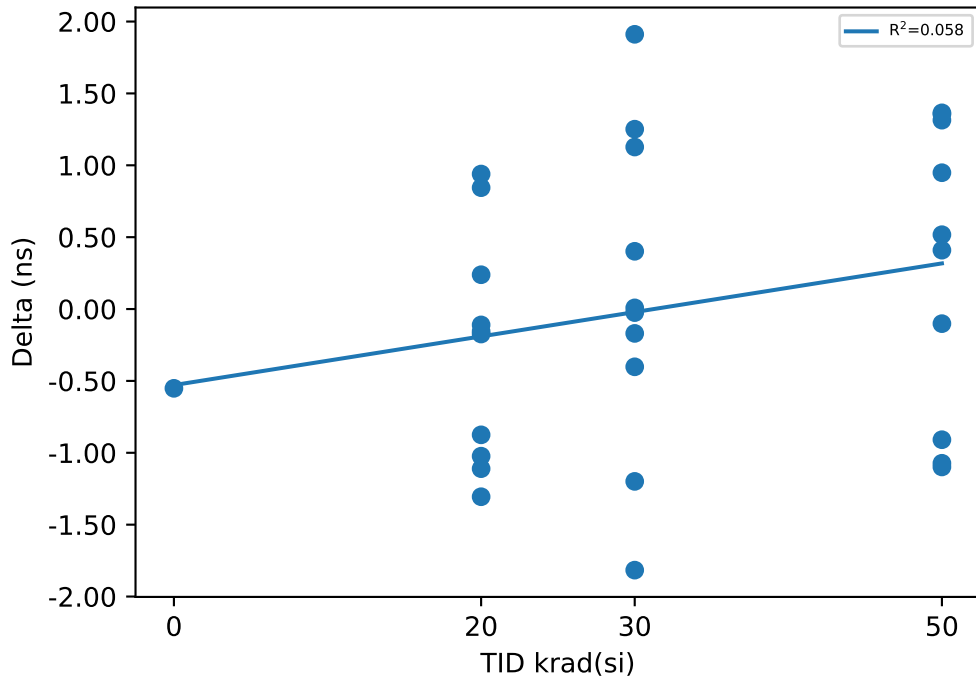
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.4813 | 2.9298 | -0.5515 |
| 321 | 20 | HDR unbiased | 4.3272 | 3.3037 | -1.0235 |
| 322 | 20 | HDR unbiased | 3.3711 | 2.2607 | -1.1104 |
| 323 | 20 | HDR unbiased | 1.3382 | 1.5769 | 0.2387 |
| 324 | 20 | HDR unbiased | 3.652 | 3.4965 | -0.1555 |
| 325 | 20 | HDR unbiased | 2.7153 | 3.5596 | 0.8443 |
| 331 | 30 | HDR unbiased | 3.0746 | 4.3258 | 1.2512 |
| 332 | 30 | HDR unbiased | 1.7816 | 2.9087 | 1.1271 |
| 333 | 30 | HDR unbiased | 3.9629 | 3.5611 | -0.4018 |
| 334 | 30 | HDR unbiased | 4.0121 | 3.8426 | -0.1695 |
| 335 | 30 | HDR unbiased | 3.4958 | 3.5039 | 0.0081 |
| 351 | 50 | HDR unbiased | 3.1104 | 3.6276 | 0.5172 |
| 352 | 50 | HDR unbiased | 3.8185 | 2.7201 | -1.0984 |
| 353 | 50 | HDR unbiased | 3.3223 | 4.6778 | 1.3555 |
| 354 | 50 | HDR unbiased | 2.653 | 3.6014 | 0.9484 |
| 355 | 50 | HDR unbiased | 3.7749 | 2.702 | -1.0729 |
| 521 | 20 | HDR biased | 4.0623 | 2.7566 | -1.3057 |
| 522 | 20 | HDR biased | 3.7754 | 3.6016 | -0.1738 |
| 523 | 20 | HDR biased | 3.2529 | 3.1425 | -0.1104 |
| 524 | 20 | HDR biased | 3.7952 | 4.7344 | 0.9392 |
| 525 | 20 | HDR biased | 4.623 | 3.7479 | -0.8751 |
| 531 | 30 | HDR biased | 2.2732 | 4.1844 | 1.9112 |
| 532 | 30 | HDR biased | 3.2993 | 3.2745 | -0.0248 |
| 533 | 30 | HDR biased | 3.9849 | 4.3866 | 0.4017 |
| 534 | 30 | HDR biased | 3.872 | 2.6731 | -1.1989 |
| 535 | 30 | HDR biased | 4.2017 | 2.3854 | -1.8163 |
| 551 | 50 | HDR biased | 3.7819 | 4.1914 | 0.4095 |
| 552 | 50 | HDR biased | 2.2491 | 3.614 | 1.3649 |
| 553 | 50 | HDR biased | 4.202 | 3.293 | -0.909 |
| 554 | 50 | HDR biased | 2.9762 | 4.2901 | 1.3139 |
| 555 | 50 | HDR biased | 2.7448 | 2.6432 | -0.1016 |

TID vs Post - Pre Exposure Delta

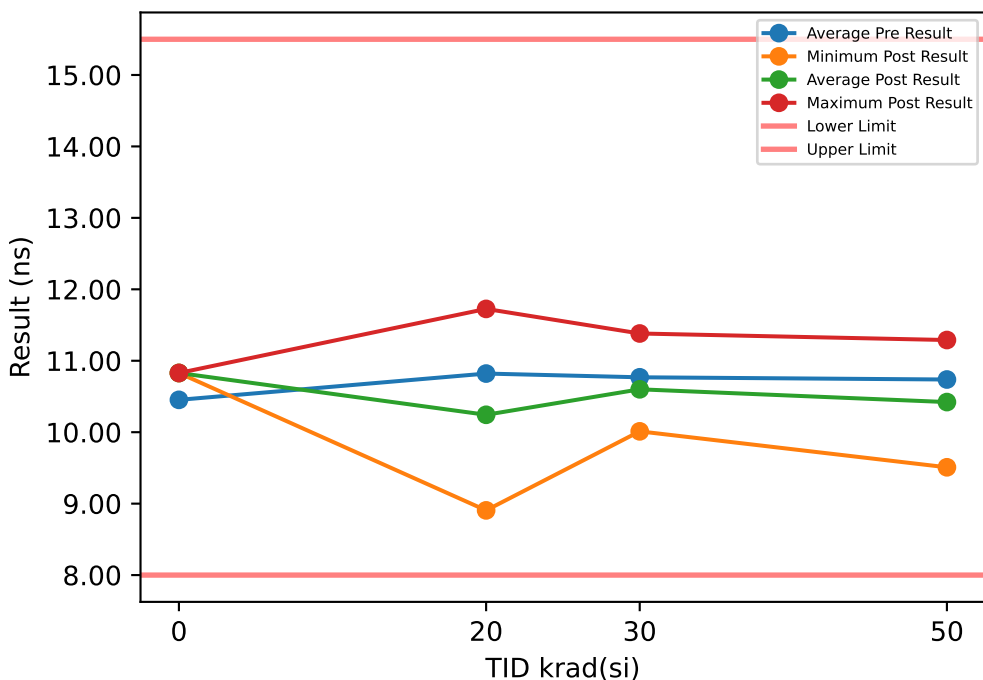


Test Statistics (ns)

| 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 | 3.4813 | 3.4813 | 3.4813 | | 2.9298 | 2.9298 | 2.9298 | | -0.5515 | -0.5515 | -0.5515 | |
| 20 | 1.3382 | 3.4913 | 4.623 | 0.93177 | 1.5769 | 3.218 | 4.7344 | 0.86649 | -1.3057 | -0.27322 | 0.9392 | 0.79744 |
| 30 | 1.7816 | 3.3958 | 4.2017 | 0.81056 | 2.3854 | 3.5046 | 4.3866 | 0.69793 | -1.8163 | 0.1088 | 1.9112 | 1.1284 |
| 50 | 2.2491 | 3.2633 | 4.202 | 0.62355 | 2.6432 | 3.5361 | 4.6778 | 0.71009 | -1.0984 | 0.27275 | 1.3649 | 1.0117 |

Device Test: 96.6 T_RLH_SMALL(_DLH Dead Time Small 1MHz VIN_12V)

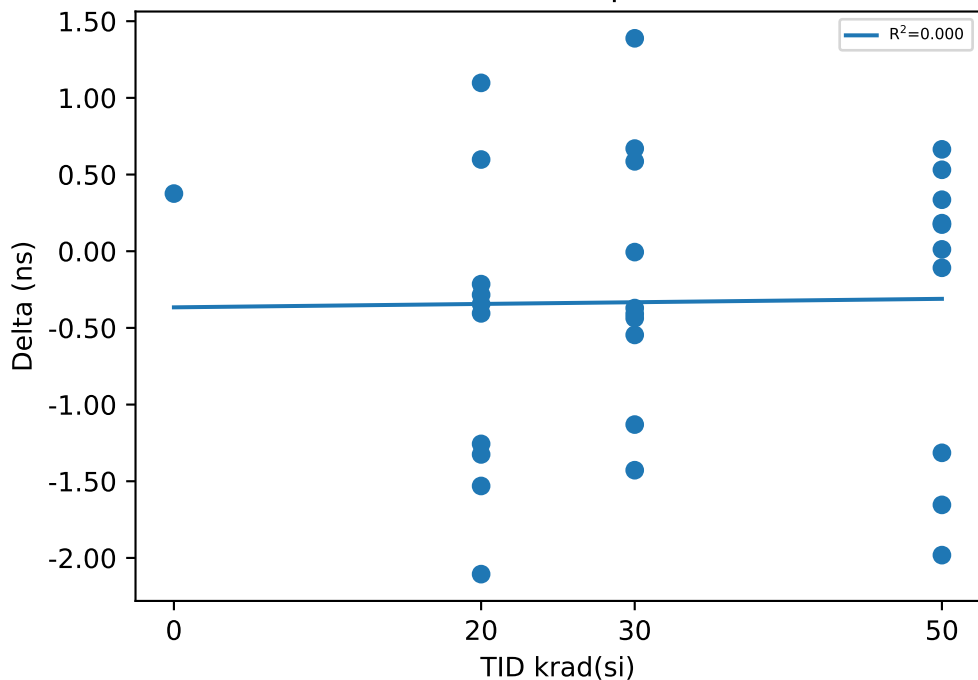
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.453 | 10.829 | 0.3759 |
| 321 | 20 | HDR unbiased | 11.452 | 10.195 | -1.2564 |
| 322 | 20 | HDR unbiased | 10.964 | 9.4328 | -1.5308 |
| 323 | 20 | HDR unbiased | 9.311 | 8.9057 | -0.4053 |
| 324 | 20 | HDR unbiased | 10.972 | 10.758 | -0.2146 |
| 325 | 20 | HDR unbiased | 9.9533 | 10.551 | 0.598 |
| 331 | 30 | HDR unbiased | 10.347 | 11.017 | 0.6694 |
| 332 | 30 | HDR unbiased | 9.8227 | 10.409 | 0.586 |
| 333 | 30 | HDR unbiased | 10.931 | 10.385 | -0.5458 |
| 334 | 30 | HDR unbiased | 11.133 | 10.697 | -0.4364 |
| 335 | 30 | HDR unbiased | 10.921 | 10.512 | -0.4086 |
| 351 | 50 | HDR unbiased | 10.371 | 10.544 | 0.1736 |
| 352 | 50 | HDR unbiased | 11.209 | 9.5545 | -1.6541 |
| 353 | 50 | HDR unbiased | 10.954 | 11.29 | 0.3359 |
| 354 | 50 | HDR unbiased | 10.179 | 10.362 | 0.183 |
| 355 | 50 | HDR unbiased | 10.823 | 9.5088 | -1.3146 |
| 521 | 20 | HDR biased | 11.191 | 9.8662 | -1.3251 |
| 522 | 20 | HDR biased | 11.169 | 10.885 | -0.2841 |
| 523 | 20 | HDR biased | 10.488 | 10.143 | -0.3444 |
| 524 | 20 | HDR biased | 10.628 | 11.726 | 1.0978 |
| 525 | 20 | HDR biased | 12.079 | 9.9738 | -2.1057 |
| 531 | 30 | HDR biased | 9.7826 | 11.171 | 1.3884 |
| 532 | 30 | HDR biased | 10.572 | 10.202 | -0.3707 |
| 533 | 30 | HDR biased | 11.387 | 11.382 | -0.0057 |
| 534 | 30 | HDR biased | 11.348 | 10.218 | -1.1304 |
| 535 | 30 | HDR biased | 11.44 | 10.012 | -1.428 |
| 551 | 50 | HDR biased | 11.064 | 11.076 | 0.012 |
| 552 | 50 | HDR biased | 10.28 | 10.945 | 0.6643 |
| 553 | 50 | HDR biased | 11.623 | 9.6413 | -1.9818 |
| 554 | 50 | HDR biased | 10.541 | 11.072 | 0.5311 |
| 555 | 50 | HDR biased | 10.331 | 10.223 | -0.108 |

TID vs Post - Pre Exposure Delta

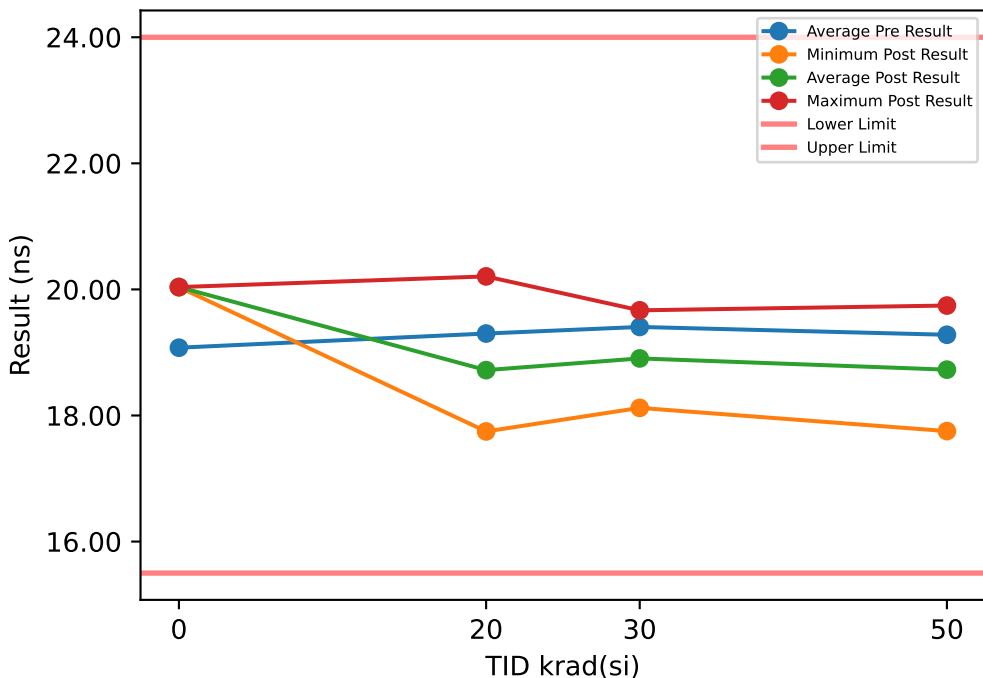


Test Statistics (ns)

| 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 | 10.453 | 10.453 | 10.453 | | 10.829 | 10.829 | 10.829 | | 0.3759 | 0.3759 | 0.3759 | |
| 20 | 9.311 | 10.821 | 12.079 | 0.77922 | 8.9057 | 10.244 | 11.726 | 0.79175 | -2.1057 | -0.57706 | 1.0978 | 0.98625 |
| 30 | 9.7826 | 10.769 | 11.44 | 0.61778 | 10.012 | 10.6 | 11.382 | 0.45472 | -1.428 | -0.16818 | 1.3884 | 0.85284 |
| 50 | 10.179 | 10.738 | 11.623 | 0.47455 | 9.5088 | 10.422 | 11.29 | 0.67761 | -1.9818 | -0.31586 | 0.6643 | 0.96065 |

Device Test: 96.7 T_RLH_MID(_DLH Dead Time Mid 1MHz VIN_12V)

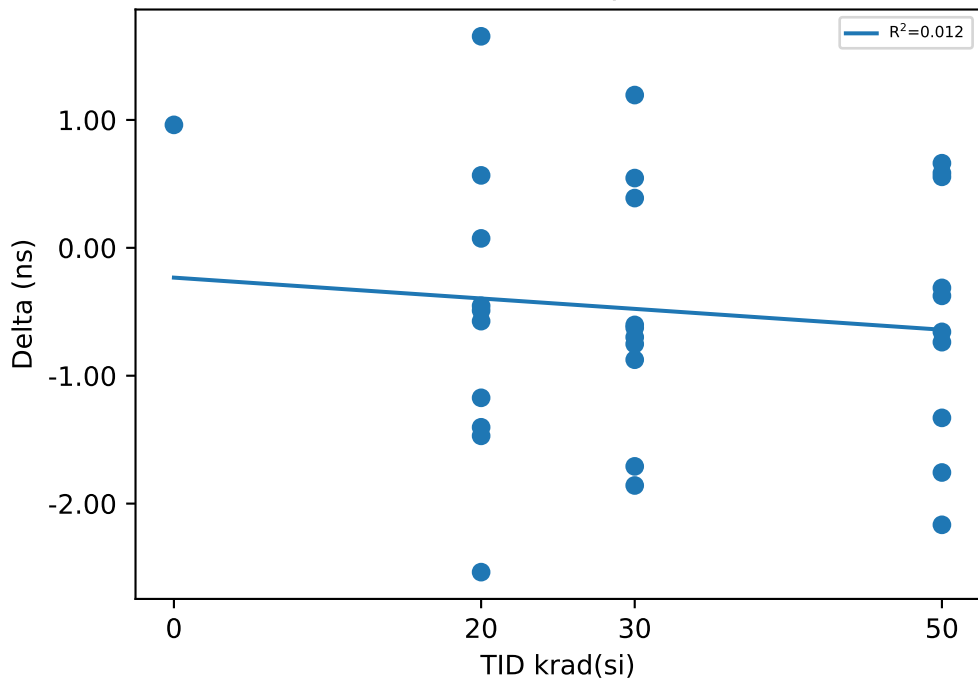
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.076 | 20.037 | 0.9615 |
| 321 | 20 | HDR unbiased | 19.926 | 18.523 | -1.4033 |
| 322 | 20 | HDR unbiased | 19.419 | 17.949 | -1.4702 |
| 323 | 20 | HDR unbiased | 18.32 | 17.747 | -0.5733 |
| 324 | 20 | HDR unbiased | 19.628 | 19.174 | -0.4535 |
| 325 | 20 | HDR unbiased | 18.222 | 18.789 | 0.5665 |
| 331 | 30 | HDR unbiased | 18.809 | 19.355 | 0.5455 |
| 332 | 30 | HDR unbiased | 19.027 | 19.416 | 0.3891 |
| 333 | 30 | HDR unbiased | 19.293 | 18.419 | -0.8748 |
| 334 | 30 | HDR unbiased | 19.567 | 18.964 | -0.6027 |
| 335 | 30 | HDR unbiased | 19.676 | 18.977 | -0.6987 |
| 351 | 50 | HDR unbiased | 18.602 | 19.264 | 0.6617 |
| 352 | 50 | HDR unbiased | 19.509 | 17.753 | -1.7567 |
| 353 | 50 | HDR unbiased | 19.989 | 19.252 | -0.7377 |
| 354 | 50 | HDR unbiased | 18.862 | 18.487 | -0.3756 |
| 355 | 50 | HDR unbiased | 19.273 | 17.944 | -1.3296 |
| 521 | 20 | HDR biased | 19.685 | 18.512 | -1.1728 |
| 522 | 20 | HDR biased | 19.919 | 19.43 | -0.4896 |
| 523 | 20 | HDR biased | 18.883 | 18.956 | 0.0738 |
| 524 | 20 | HDR biased | 18.552 | 20.206 | 1.654 |
| 525 | 20 | HDR biased | 20.444 | 17.908 | -2.5359 |
| 531 | 30 | HDR biased | 18.279 | 19.474 | 1.1946 |
| 532 | 30 | HDR biased | 19.065 | 18.313 | -0.7523 |
| 533 | 30 | HDR biased | 20.293 | 19.668 | -0.6248 |
| 534 | 30 | HDR biased | 20.058 | 18.349 | -1.7089 |
| 535 | 30 | HDR biased | 19.979 | 18.121 | -1.8583 |
| 551 | 50 | HDR biased | 19.556 | 19.243 | -0.3132 |
| 552 | 50 | HDR biased | 19.189 | 19.744 | 0.5552 |
| 553 | 50 | HDR biased | 19.948 | 17.782 | -2.1659 |
| 554 | 50 | HDR biased | 18.857 | 19.442 | 0.5849 |
| 555 | 50 | HDR biased | 19.02 | 18.362 | -0.6571 |

TID vs Post - Pre Exposure Delta

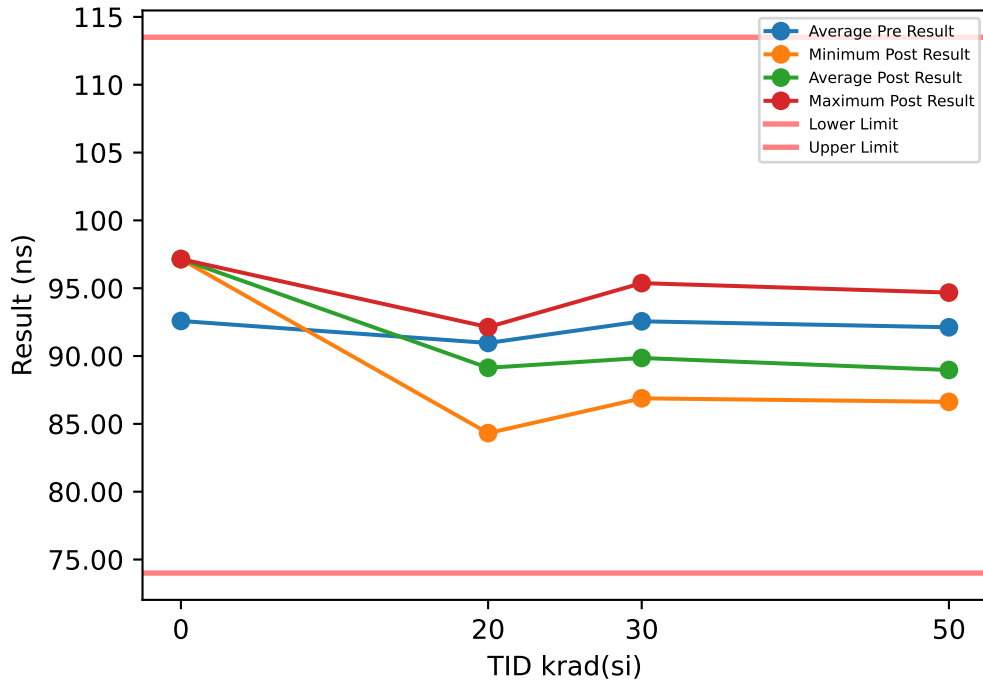


Test Statistics (ns)

| 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 | 19.076 | 19.076 | 19.076 | | 20.037 | 20.037 | 20.037 | | 0.9615 | 0.9615 | 0.9615 | |
| 20 | 18.222 | 19.3 | 20.444 | 0.76082 | 17.747 | 18.72 | 20.206 | 0.7646 | -2.5359 | -0.58043 | 1.654 | 1.174 |
| 30 | 18.279 | 19.405 | 20.293 | 0.62689 | 18.121 | 18.905 | 19.668 | 0.5666 | -1.8583 | -0.49913 | 1.1946 | 0.96214 |
| 50 | 18.602 | 19.281 | 19.989 | 0.46765 | 17.753 | 18.727 | 19.744 | 0.74694 | -2.1659 | -0.5534 | 0.6617 | 0.98803 |

Device Test: 96.9 T_RLH_MAX(_DLH Dead Time Max 1MHz VIN_12V)

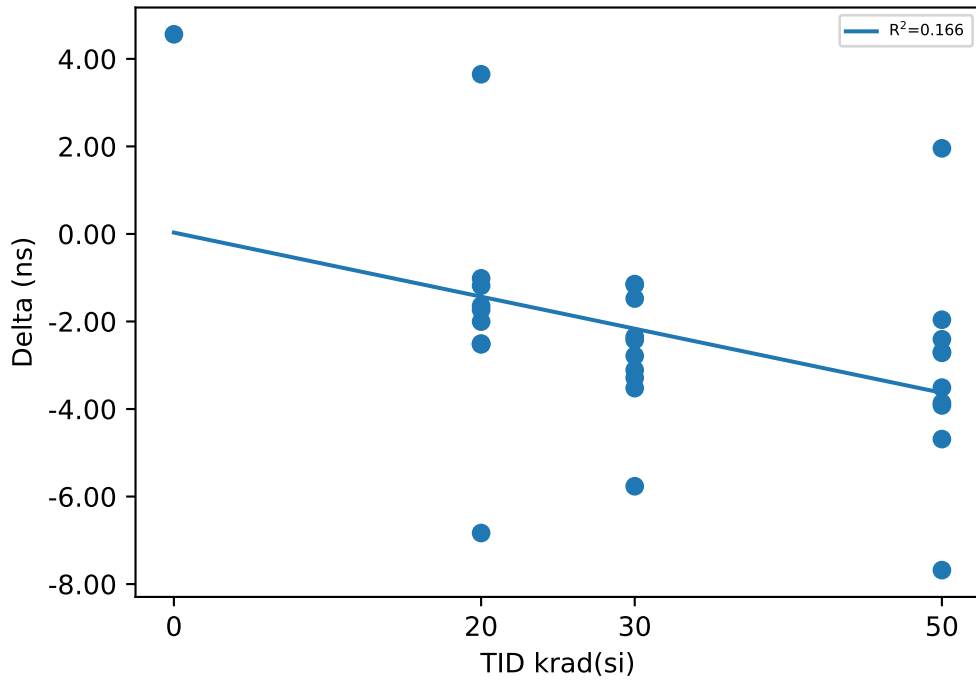
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 92.587 | 97.148 | 4.5612 |
| 321 | 20 | HDR unbiased | 89.888 | 87.384 | -2.5045 |
| 322 | 20 | HDR unbiased | 92.021 | 89.503 | -2.5184 |
| 323 | 20 | HDR unbiased | 93.854 | 91.852 | -2.0026 |
| 324 | 20 | HDR unbiased | 91.748 | 90.106 | -1.6417 |
| 325 | 20 | HDR unbiased | 90.003 | 88.989 | -1.0144 |
| 331 | 30 | HDR unbiased | 89.868 | 88.71 | -1.1579 |
| 332 | 30 | HDR unbiased | 96.85 | 95.374 | -1.4759 |
| 333 | 30 | HDR unbiased | 89.668 | 86.882 | -2.7851 |
| 334 | 30 | HDR unbiased | 90.974 | 88.623 | -2.3509 |
| 335 | 30 | HDR unbiased | 92.984 | 90.562 | -2.4222 |
| 351 | 50 | HDR unbiased | 88.966 | 90.922 | 1.9559 |
| 352 | 50 | HDR unbiased | 92.012 | 88.152 | -3.8602 |
| 353 | 50 | HDR unbiased | 94.304 | 86.623 | -7.6812 |
| 354 | 50 | HDR unbiased | 90.552 | 87.041 | -3.5109 |
| 355 | 50 | HDR unbiased | 91.165 | 87.246 | -3.9184 |
| 521 | 20 | HDR biased | 90.917 | 88.398 | -2.519 |
| 522 | 20 | HDR biased | 93.315 | 92.132 | -1.1827 |
| 523 | 20 | HDR biased | 90.521 | 88.788 | -1.7333 |
| 524 | 20 | HDR biased | 86.222 | 89.87 | 3.6482 |
| 525 | 20 | HDR biased | 91.151 | 84.318 | -6.833 |
| 531 | 30 | HDR biased | 92.921 | 89.398 | -3.5229 |
| 532 | 30 | HDR biased | 91.365 | 88.079 | -3.2863 |
| 533 | 30 | HDR biased | 96.063 | 90.298 | -5.7648 |
| 534 | 30 | HDR biased | 93.094 | 89.986 | -3.1076 |
| 535 | 30 | HDR biased | 91.813 | 90.667 | -1.1461 |
| 551 | 50 | HDR biased | 91.745 | 89.03 | -2.7156 |
| 552 | 50 | HDR biased | 97.084 | 94.678 | -2.4064 |
| 553 | 50 | HDR biased | 91.52 | 86.833 | -4.6872 |
| 554 | 50 | HDR biased | 90.778 | 88.818 | -1.9603 |
| 555 | 50 | HDR biased | 93.079 | 90.381 | -2.6985 |

TID vs Post - Pre Exposure Delta

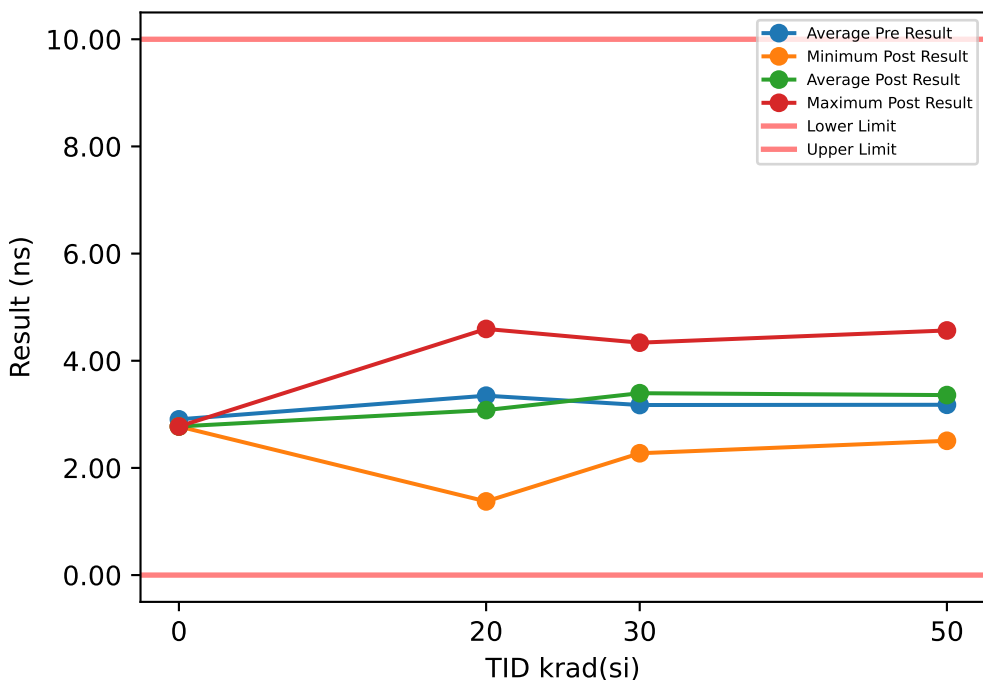


Test Statistics (ns)

| 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 | 92.587 | 92.587 | 92.587 | | 97.148 | 97.148 | 97.148 | | 4.5612 | 4.5612 | 4.5612 | |
| 20 | 86.222 | 90.964 | 93.854 | 2.1191 | 84.318 | 89.134 | 92.132 | 2.2345 | -6.833 | -1.8301 | 3.6482 | 2.5299 |
| 30 | 89.668 | 92.56 | 96.85 | 2.3893 | 86.882 | 89.858 | 95.374 | 2.2818 | -5.7648 | -2.702 | -1.1461 | 1.3775 |
| 50 | 88.966 | 92.121 | 97.084 | 2.2599 | 86.623 | 88.972 | 94.678 | 2.4909 | -7.6812 | -3.1483 | 1.9559 | 2.4164 |

Device Test: 97.0 T_RLH_MIN(_DLH Dead Time Min 500kHz VIN_14V)

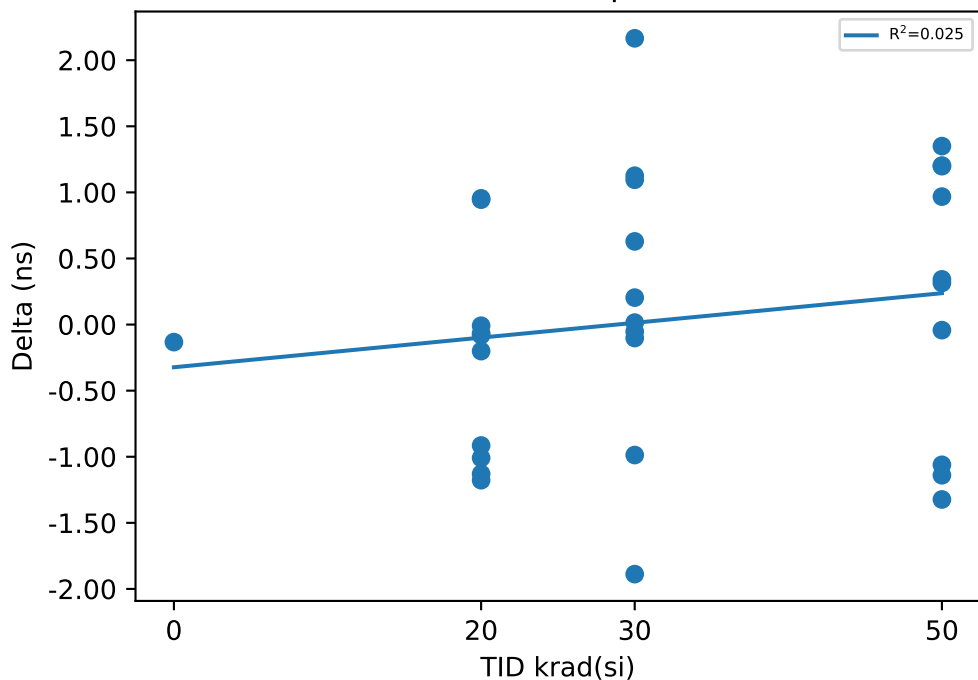
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 2.9064 | 2.7737 | -0.1327 |
| 321 | 20 | HDR unbiased | 4.075 | 3.0661 | -1.0089 |
| 322 | 20 | HDR unbiased | 3.2816 | 2.1042 | -1.1774 |
| 323 | 20 | HDR unbiased | 1.3836 | 1.3749 | -0.0087 |
| 324 | 20 | HDR unbiased | 3.4499 | 3.3697 | -0.0802 |
| 325 | 20 | HDR unbiased | 2.4508 | 3.3958 | 0.945 |
| 331 | 30 | HDR unbiased | 2.9905 | 4.1165 | 1.126 |
| 332 | 30 | HDR unbiased | 1.6214 | 2.7171 | 1.0957 |
| 333 | 30 | HDR unbiased | 3.6229 | 3.5209 | -0.102 |
| 334 | 30 | HDR unbiased | 3.809 | 3.7559 | -0.0531 |
| 335 | 30 | HDR unbiased | 3.2508 | 3.2656 | 0.0148 |
| 351 | 50 | HDR unbiased | 3.1032 | 3.4452 | 0.342 |
| 352 | 50 | HDR unbiased | 3.7347 | 2.5949 | -1.1398 |
| 353 | 50 | HDR unbiased | 3.3671 | 4.5655 | 1.1984 |
| 354 | 50 | HDR unbiased | 2.5445 | 3.5125 | 0.968 |
| 355 | 50 | HDR unbiased | 3.5875 | 2.5265 | -1.061 |
| 521 | 20 | HDR biased | 3.88 | 2.7503 | -1.1297 |
| 522 | 20 | HDR biased | 3.5763 | 3.5098 | -0.0665 |
| 523 | 20 | HDR biased | 3.1536 | 2.9528 | -0.2008 |
| 524 | 20 | HDR biased | 3.6391 | 4.5939 | 0.9548 |
| 525 | 20 | HDR biased | 4.5918 | 3.6769 | -0.9149 |
| 531 | 30 | HDR biased | 1.9882 | 4.1538 | 2.1656 |
| 532 | 30 | HDR biased | 2.8951 | 3.0989 | 0.2038 |
| 533 | 30 | HDR biased | 3.7083 | 4.3375 | 0.6292 |
| 534 | 30 | HDR biased | 3.6912 | 2.7041 | -0.9871 |
| 535 | 30 | HDR biased | 4.1617 | 2.2737 | -1.888 |
| 551 | 50 | HDR biased | 3.6966 | 4.0112 | 0.3146 |
| 552 | 50 | HDR biased | 2.2363 | 3.5864 | 1.3501 |
| 553 | 50 | HDR biased | 4.068 | 2.7448 | -1.3232 |
| 554 | 50 | HDR biased | 2.8974 | 4.1 | 1.2026 |
| 555 | 50 | HDR biased | 2.5485 | 2.5063 | -0.0422 |

TID vs Post - Pre Exposure Delta

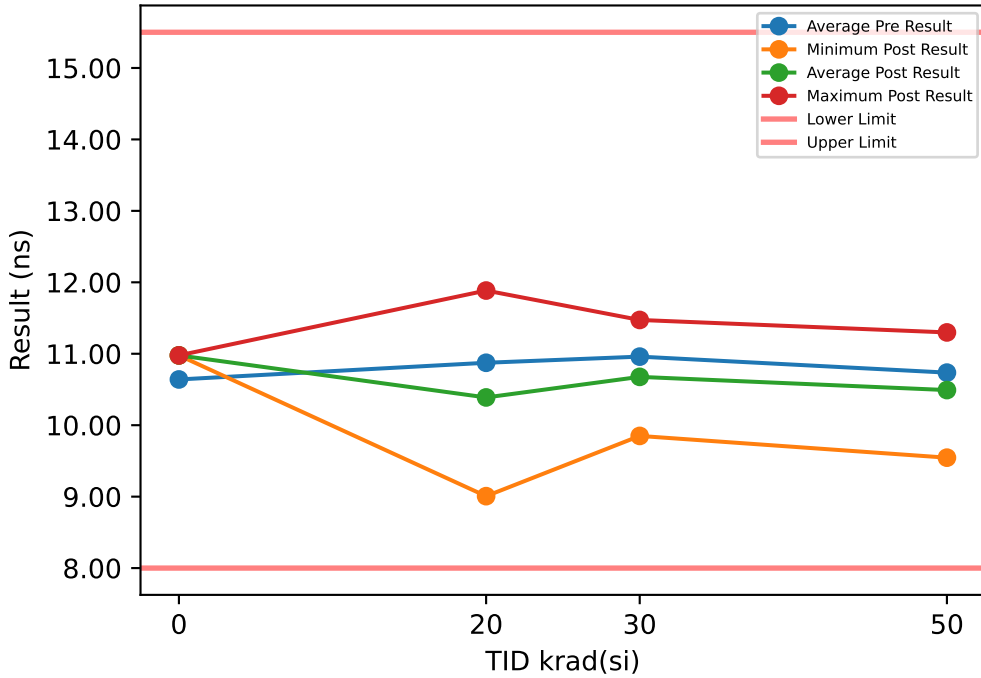


Test Statistics (ns)

| 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 | 2.9064 | 2.9064 | 2.9064 | | 2.7737 | 2.7737 | 2.7737 | | -0.1327 | -0.1327 | -0.1327 | |
| 20 | 1.3836 | 3.3482 | 4.5918 | 0.89516 | 1.3749 | 3.0794 | 4.5939 | 0.88199 | -1.1774 | -0.26873 | 0.9548 | 0.79241 |
| 30 | 1.6214 | 3.1739 | 4.1617 | 0.82106 | 2.2737 | 3.3944 | 4.3375 | 0.70154 | -1.888 | 0.22049 | 2.1656 | 1.1383 |
| 50 | 2.2363 | 3.1784 | 4.068 | 0.60947 | 2.5063 | 3.3593 | 4.5655 | 0.73742 | -1.3232 | 0.18095 | 1.3501 | 1.0386 |

Device Test: 97.1 T_RLH_SMALL(_DLHDead Time Small 500kHz VIN_14V)

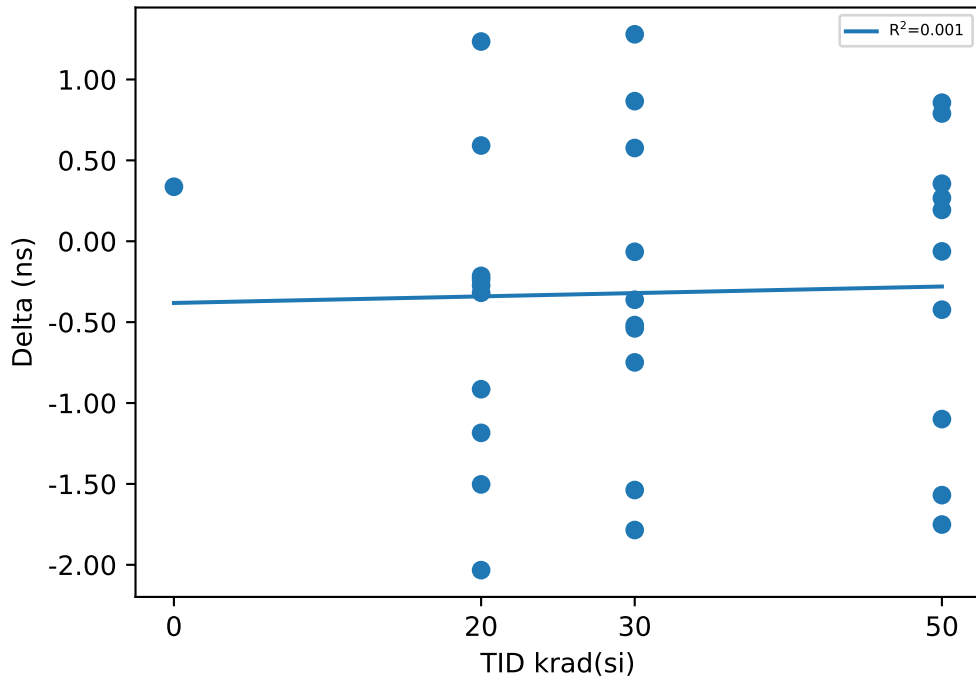
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.64 | 10.977 | 0.337 |
| 321 | 20 | HDR unbiased | 11.55 | 10.366 | -1.1843 |
| 322 | 20 | HDR unbiased | 11.096 | 9.5931 | -1.5029 |
| 323 | 20 | HDR unbiased | 9.2806 | 9.0067 | -0.2739 |
| 324 | 20 | HDR unbiased | 11.142 | 10.823 | -0.3184 |
| 325 | 20 | HDR unbiased | 9.9329 | 10.525 | 0.5917 |
| 331 | 30 | HDR unbiased | 10.394 | 11.26 | 0.866 |
| 332 | 30 | HDR unbiased | 10.038 | 10.615 | 0.5763 |
| 333 | 30 | HDR unbiased | 11.148 | 10.399 | -0.7487 |
| 334 | 30 | HDR unbiased | 11.373 | 10.855 | -0.5181 |
| 335 | 30 | HDR unbiased | 11.197 | 10.659 | -0.5385 |
| 351 | 50 | HDR unbiased | 10.464 | 10.819 | 0.3558 |
| 352 | 50 | HDR unbiased | 11.115 | 9.5455 | -1.5693 |
| 353 | 50 | HDR unbiased | 11.031 | 11.299 | 0.2675 |
| 354 | 50 | HDR unbiased | 10.163 | 10.357 | 0.1939 |
| 355 | 50 | HDR unbiased | 10.871 | 9.7713 | -1.0993 |
| 521 | 20 | HDR biased | 11.294 | 10.38 | -0.9146 |
| 522 | 20 | HDR biased | 11.259 | 11.022 | -0.2374 |
| 523 | 20 | HDR biased | 10.467 | 10.253 | -0.2142 |
| 524 | 20 | HDR biased | 10.65 | 11.885 | 1.2346 |
| 525 | 20 | HDR biased | 12.066 | 10.033 | -2.0329 |
| 531 | 30 | HDR biased | 10.043 | 11.322 | 1.2792 |
| 532 | 30 | HDR biased | 10.583 | 10.221 | -0.3617 |
| 533 | 30 | HDR biased | 11.538 | 11.473 | -0.0651 |
| 534 | 30 | HDR biased | 11.635 | 9.8498 | -1.785 |
| 535 | 30 | HDR biased | 11.649 | 10.111 | -1.5378 |
| 551 | 50 | HDR biased | 11.207 | 11.144 | -0.0626 |
| 552 | 50 | HDR biased | 10.188 | 11.045 | 0.8565 |
| 553 | 50 | HDR biased | 11.566 | 9.8154 | -1.751 |
| 554 | 50 | HDR biased | 10.386 | 11.176 | 0.7896 |
| 555 | 50 | HDR biased | 10.369 | 9.9463 | -0.423 |

TID vs Post - Pre Exposure Delta

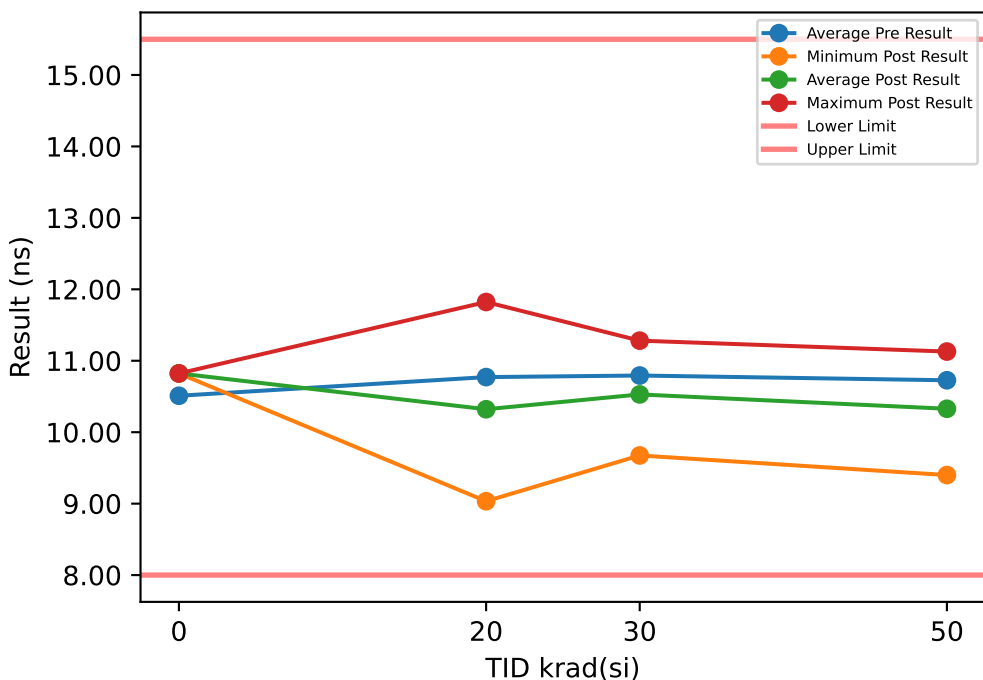


Test Statistics (ns)

| 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 | 10.64 | 10.64 | 10.64 | | 10.977 | 10.977 | 10.977 | | 0.337 | 0.337 | 0.337 | |
| 20 | 9.2806 | 10.874 | 12.066 | 0.81408 | 9.0067 | 10.389 | 11.885 | 0.78422 | -2.0329 | -0.48523 | 1.2346 | 0.96776 |
| 30 | 10.038 | 10.96 | 11.649 | 0.63953 | 9.8498 | 10.677 | 11.473 | 0.54917 | -1.785 | -0.28334 | 1.2792 | 0.98436 |
| 50 | 10.163 | 10.736 | 11.566 | 0.48529 | 9.5455 | 10.492 | 11.299 | 0.67867 | -1.751 | -0.24419 | 0.8565 | 0.93788 |

Device Test: 97.11 T_RLH_SMALL(_DLH Dead Time Small 2MHz VIN_14V)

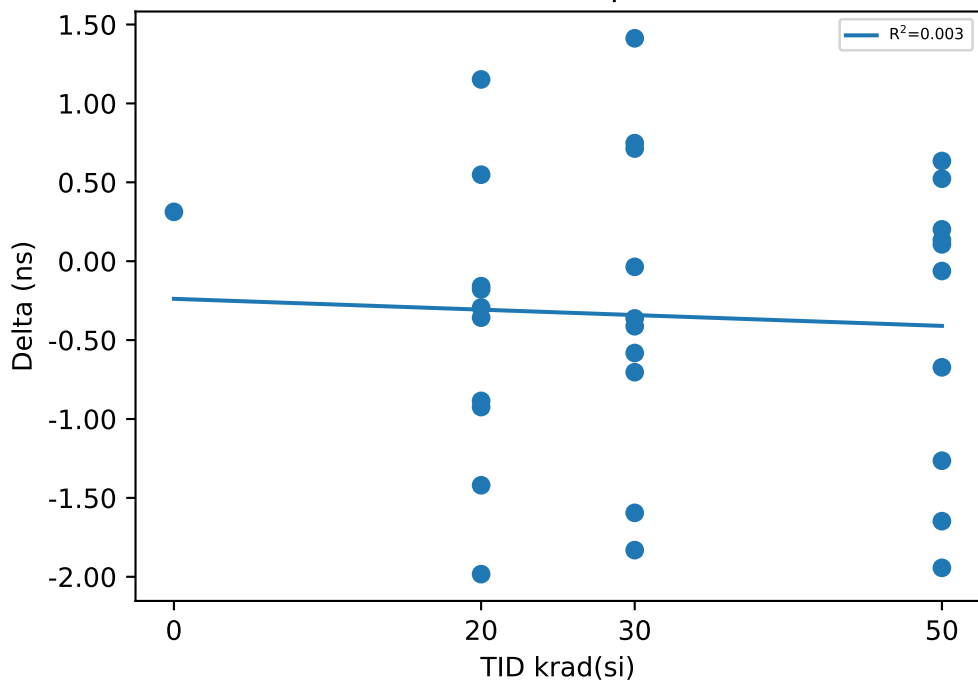
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.51 | 10.823 | 0.3127 |
| 321 | 20 | HDR unbiased | 11.509 | 10.623 | -0.8852 |
| 322 | 20 | HDR unbiased | 10.748 | 9.8234 | -0.9244 |
| 323 | 20 | HDR unbiased | 9.3274 | 9.0339 | -0.2935 |
| 324 | 20 | HDR unbiased | 10.902 | 10.744 | -0.158 |
| 325 | 20 | HDR unbiased | 9.8829 | 10.431 | 0.5481 |
| 331 | 30 | HDR unbiased | 10.283 | 11.031 | 0.7483 |
| 332 | 30 | HDR unbiased | 9.8129 | 10.527 | 0.7139 |
| 333 | 30 | HDR unbiased | 10.954 | 10.251 | -0.7034 |
| 334 | 30 | HDR unbiased | 11.31 | 10.729 | -0.5817 |
| 335 | 30 | HDR unbiased | 10.951 | 10.539 | -0.4121 |
| 351 | 50 | HDR unbiased | 10.463 | 10.57 | 0.1066 |
| 352 | 50 | HDR unbiased | 11.048 | 9.4003 | -1.6475 |
| 353 | 50 | HDR unbiased | 10.994 | 11.129 | 0.1346 |
| 354 | 50 | HDR unbiased | 10.186 | 10.388 | 0.2019 |
| 355 | 50 | HDR unbiased | 10.828 | 9.5632 | -1.2643 |
| 521 | 20 | HDR biased | 11.222 | 9.8022 | -1.42 |
| 522 | 20 | HDR biased | 11.152 | 10.794 | -0.3578 |
| 523 | 20 | HDR biased | 10.397 | 10.218 | -0.1788 |
| 524 | 20 | HDR biased | 10.67 | 11.822 | 1.1519 |
| 525 | 20 | HDR biased | 11.902 | 9.9184 | -1.9832 |
| 531 | 30 | HDR biased | 9.7539 | 11.166 | 1.4126 |
| 532 | 30 | HDR biased | 10.608 | 10.246 | -0.3625 |
| 533 | 30 | HDR biased | 11.317 | 11.281 | -0.0358 |
| 534 | 30 | HDR biased | 11.437 | 9.8426 | -1.5948 |
| 535 | 30 | HDR biased | 11.505 | 9.6744 | -1.8311 |
| 551 | 50 | HDR biased | 11.083 | 11.021 | -0.0622 |
| 552 | 50 | HDR biased | 10.245 | 10.88 | 0.6351 |
| 553 | 50 | HDR biased | 11.499 | 9.5552 | -1.9434 |
| 554 | 50 | HDR biased | 10.507 | 11.03 | 0.523 |
| 555 | 50 | HDR biased | 10.417 | 9.7441 | -0.6725 |

TID vs Post - Pre Exposure Delta

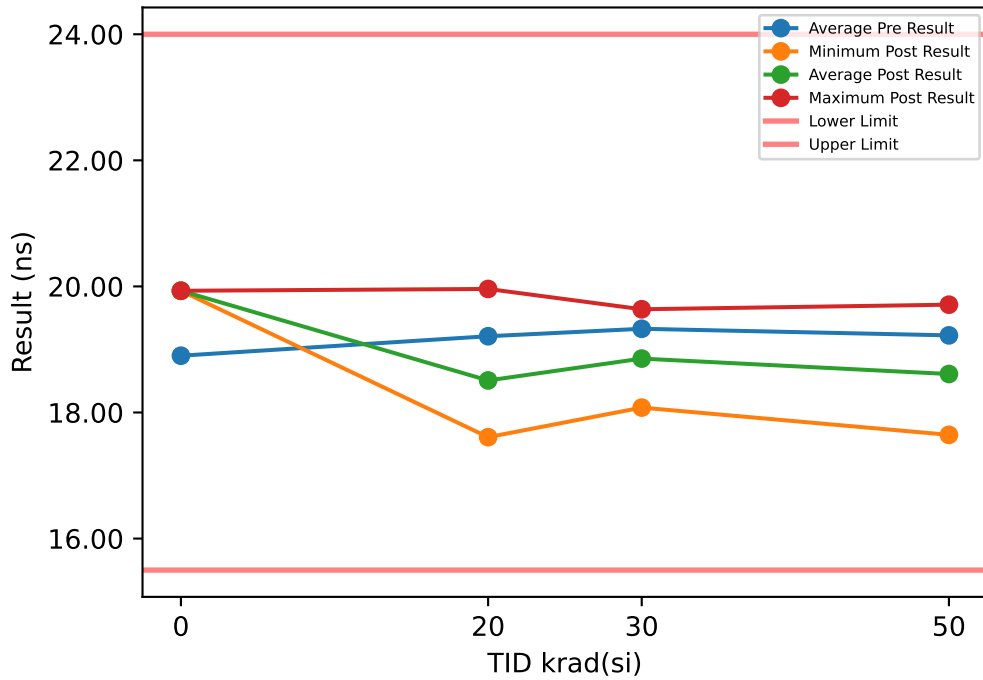


Test Statistics (ns)

| 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 | 10.51 | 10.51 | 10.51 | | 10.823 | 10.823 | 10.823 | | 0.3127 | 0.3127 | 0.3127 | |
| 20 | 9.3274 | 10.771 | 11.902 | 0.76096 | 9.0339 | 10.321 | 11.822 | 0.75326 | -1.9832 | -0.45009 | 1.1519 | 0.91044 |
| 30 | 9.7539 | 10.793 | 11.505 | 0.6541 | 9.6744 | 10.529 | 11.281 | 0.53995 | -1.8311 | -0.26466 | 1.4126 | 1.0218 |
| 50 | 10.186 | 10.727 | 11.499 | 0.42768 | 9.4003 | 10.328 | 11.129 | 0.69634 | -1.9434 | -0.39887 | 0.6351 | 0.92507 |

Device Test: 97.12 T_RLH_MID(_DLH Dead Time Mid 2MHz VIN_14V)

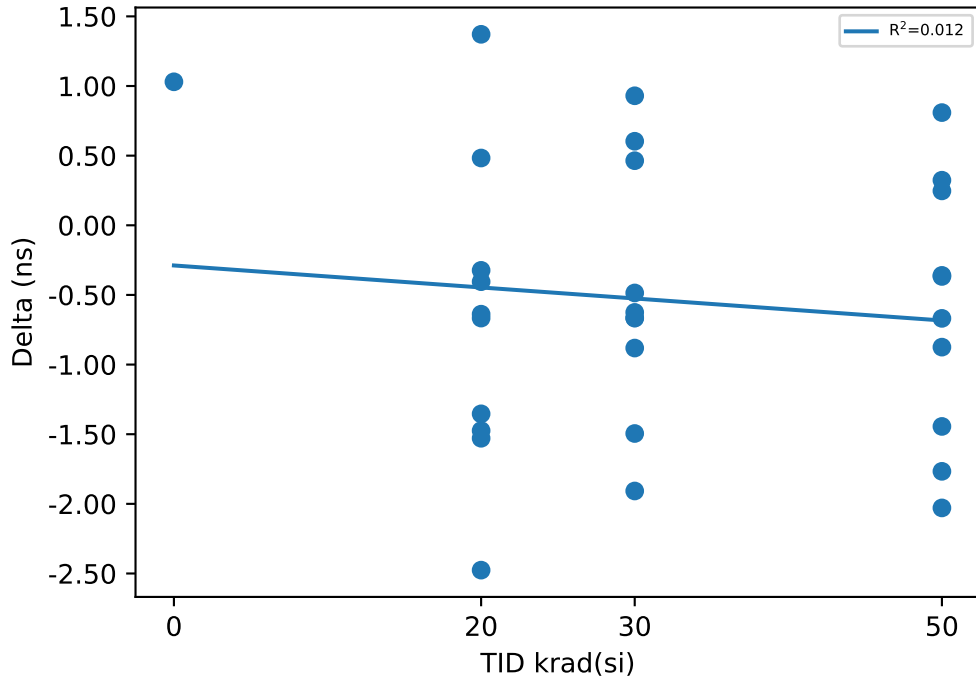
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 18.901 | 19.931 | 1.0302 |
| 321 | 20 | HDR unbiased | 19.726 | 18.372 | -1.3537 |
| 322 | 20 | HDR unbiased | 19.307 | 17.833 | -1.4742 |
| 323 | 20 | HDR unbiased | 18.275 | 17.608 | -0.6662 |
| 324 | 20 | HDR unbiased | 19.468 | 19.144 | -0.3235 |
| 325 | 20 | HDR unbiased | 18.124 | 18.607 | 0.4831 |
| 331 | 30 | HDR unbiased | 18.622 | 19.226 | 0.6034 |
| 332 | 30 | HDR unbiased | 18.906 | 19.37 | 0.4638 |
| 333 | 30 | HDR unbiased | 19.159 | 18.278 | -0.8814 |
| 334 | 30 | HDR unbiased | 19.478 | 18.813 | -0.6649 |
| 335 | 30 | HDR unbiased | 19.553 | 18.887 | -0.6663 |
| 351 | 50 | HDR unbiased | 18.376 | 19.186 | 0.8092 |
| 352 | 50 | HDR unbiased | 19.412 | 17.645 | -1.7665 |
| 353 | 50 | HDR unbiased | 19.996 | 19.121 | -0.8748 |
| 354 | 50 | HDR unbiased | 18.615 | 18.247 | -0.3673 |
| 355 | 50 | HDR unbiased | 19.26 | 17.816 | -1.4441 |
| 521 | 20 | HDR biased | 19.604 | 18.075 | -1.5291 |
| 522 | 20 | HDR biased | 19.784 | 19.379 | -0.4049 |
| 523 | 20 | HDR biased | 18.995 | 18.357 | -0.6382 |
| 524 | 20 | HDR biased | 18.588 | 19.96 | 1.3712 |
| 525 | 20 | HDR biased | 20.224 | 17.748 | -2.4759 |
| 531 | 30 | HDR biased | 18.438 | 19.367 | 0.9299 |
| 532 | 30 | HDR biased | 18.932 | 18.306 | -0.6254 |
| 533 | 30 | HDR biased | 20.123 | 19.638 | -0.4858 |
| 534 | 30 | HDR biased | 20.082 | 18.588 | -1.4949 |
| 535 | 30 | HDR biased | 19.985 | 18.078 | -1.9076 |
| 551 | 50 | HDR biased | 19.502 | 19.142 | -0.3596 |
| 552 | 50 | HDR biased | 19.386 | 19.71 | 0.3237 |
| 553 | 50 | HDR biased | 19.762 | 17.732 | -2.0292 |
| 554 | 50 | HDR biased | 18.943 | 19.19 | 0.247 |
| 555 | 50 | HDR biased | 18.982 | 18.314 | -0.6683 |

TID vs Post - Pre Exposure Delta

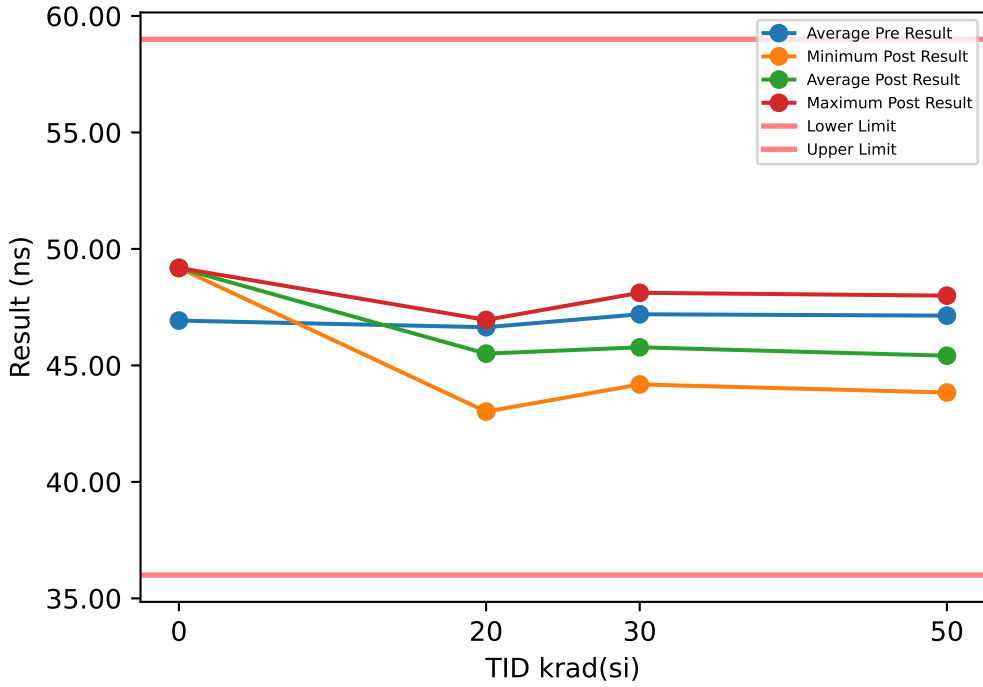


Test Statistics (ns)

| 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 | 18.901 | 18.901 | 18.901 | | 19.931 | 19.931 | 19.931 | | 1.0302 | 1.0302 | 1.0302 | |
| 20 | 18.124 | 19.21 | 20.224 | 0.69472 | 17.608 | 18.508 | 19.96 | 0.77107 | -2.4759 | -0.70114 | 1.3712 | 1.095 |
| 30 | 18.438 | 19.328 | 20.123 | 0.61114 | 18.078 | 18.855 | 19.638 | 0.53649 | -1.9076 | -0.47292 | 0.9299 | 0.90499 |
| 50 | 18.376 | 19.223 | 19.996 | 0.50023 | 17.645 | 18.61 | 19.71 | 0.74329 | -2.0292 | -0.61299 | 0.8092 | 0.93469 |

Device Test: 97.13 T_RLH_LARGE(_DLH Dead Time Large 2MHz VIN_14V)

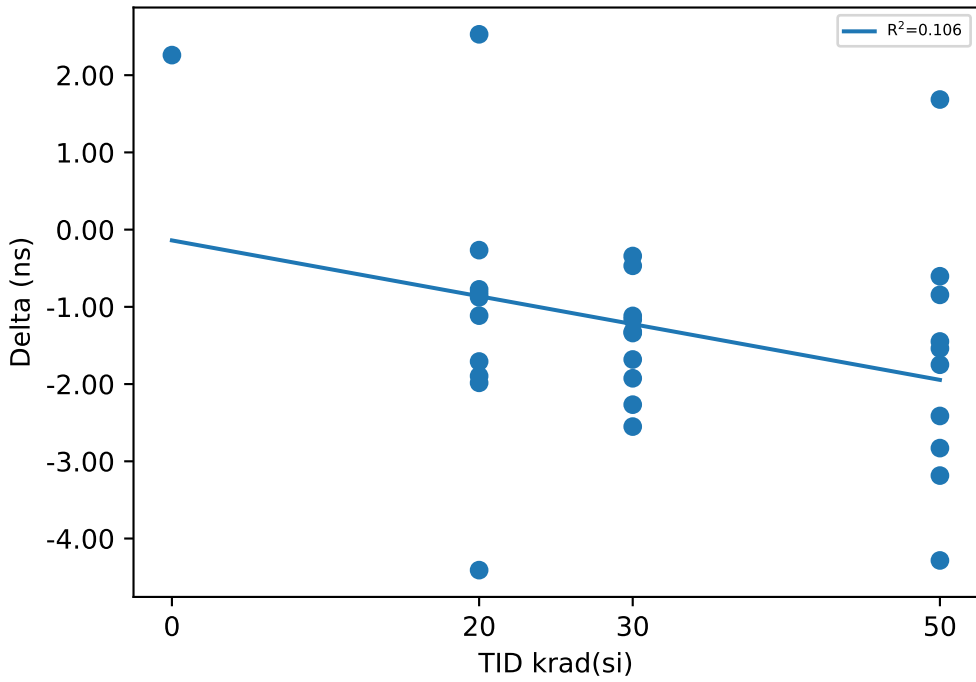
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 46.925 | 49.185 | 2.2599 |
| 321 | 20 | HDR unbiased | 46.868 | 45.161 | -1.7076 |
| 322 | 20 | HDR unbiased | 47.055 | 45.159 | -1.8956 |
| 323 | 20 | HDR unbiased | 46.957 | 46.081 | -0.8765 |
| 324 | 20 | HDR unbiased | 47.059 | 46.232 | -0.8269 |
| 325 | 20 | HDR unbiased | 45.637 | 45.372 | -0.2656 |
| 331 | 30 | HDR unbiased | 45.99 | 45.648 | -0.3417 |
| 332 | 30 | HDR unbiased | 48.585 | 48.116 | -0.4684 |
| 333 | 30 | HDR unbiased | 45.865 | 44.183 | -1.6815 |
| 334 | 30 | HDR unbiased | 46.674 | 45.351 | -1.3229 |
| 335 | 30 | HDR unbiased | 47.171 | 45.832 | -1.339 |
| 351 | 50 | HDR unbiased | 45.283 | 46.968 | 1.6848 |
| 352 | 50 | HDR unbiased | 47.526 | 44.697 | -2.8291 |
| 353 | 50 | HDR unbiased | 48.929 | 44.645 | -4.2838 |
| 354 | 50 | HDR unbiased | 46.206 | 44.456 | -1.7495 |
| 355 | 50 | HDR unbiased | 46.698 | 44.285 | -2.4129 |
| 521 | 20 | HDR biased | 46.978 | 44.994 | -1.9838 |
| 522 | 20 | HDR biased | 47.727 | 46.953 | -0.7736 |
| 523 | 20 | HDR biased | 46.469 | 45.355 | -1.1138 |
| 524 | 20 | HDR biased | 44.216 | 46.745 | 2.5292 |
| 525 | 20 | HDR biased | 47.427 | 43.018 | -4.4093 |
| 531 | 30 | HDR biased | 46.843 | 45.725 | -1.1174 |
| 532 | 30 | HDR biased | 46.629 | 44.704 | -1.925 |
| 533 | 30 | HDR biased | 48.796 | 46.53 | -2.2665 |
| 534 | 30 | HDR biased | 48.094 | 45.544 | -2.5505 |
| 535 | 30 | HDR biased | 47.308 | 46.142 | -1.1654 |
| 551 | 50 | HDR biased | 47.156 | 45.707 | -1.4482 |
| 552 | 50 | HDR biased | 48.839 | 47.995 | -0.8446 |
| 553 | 50 | HDR biased | 47.021 | 43.836 | -3.1849 |
| 554 | 50 | HDR biased | 46.283 | 45.68 | -0.6037 |
| 555 | 50 | HDR biased | 47.43 | 45.891 | -1.5384 |

TID vs Post - Pre Exposure Delta

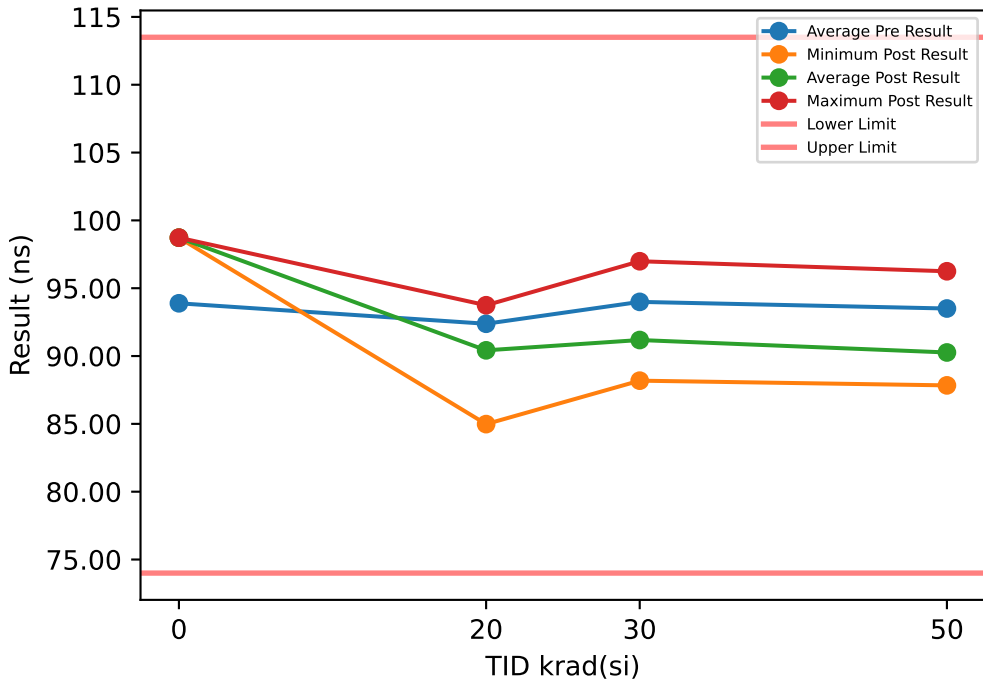


Test Statistics (ns)

| 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 | 46.925 | 46.925 | 46.925 | | 49.185 | 49.185 | 49.185 | | 2.2599 | 2.2599 | 2.2599 | |
| 20 | 44.216 | 46.639 | 47.727 | 1.0179 | 43.018 | 45.507 | 46.953 | 1.1166 | -4.4093 | -1.1323 | 2.5292 | 1.7264 |
| 30 | 45.865 | 47.195 | 48.796 | 1.0141 | 44.183 | 45.778 | 48.116 | 1.0605 | -2.5505 | -1.4178 | -0.3417 | 0.7117 |
| 50 | 45.283 | 47.137 | 48.929 | 1.1346 | 43.836 | 45.416 | 47.995 | 1.3016 | -4.2838 | -1.721 | 1.6848 | 1.6378 |

Device Test: 97.14 T_RLH_MAX(_DLH Dead Time Max 2MHz VIN_14V)

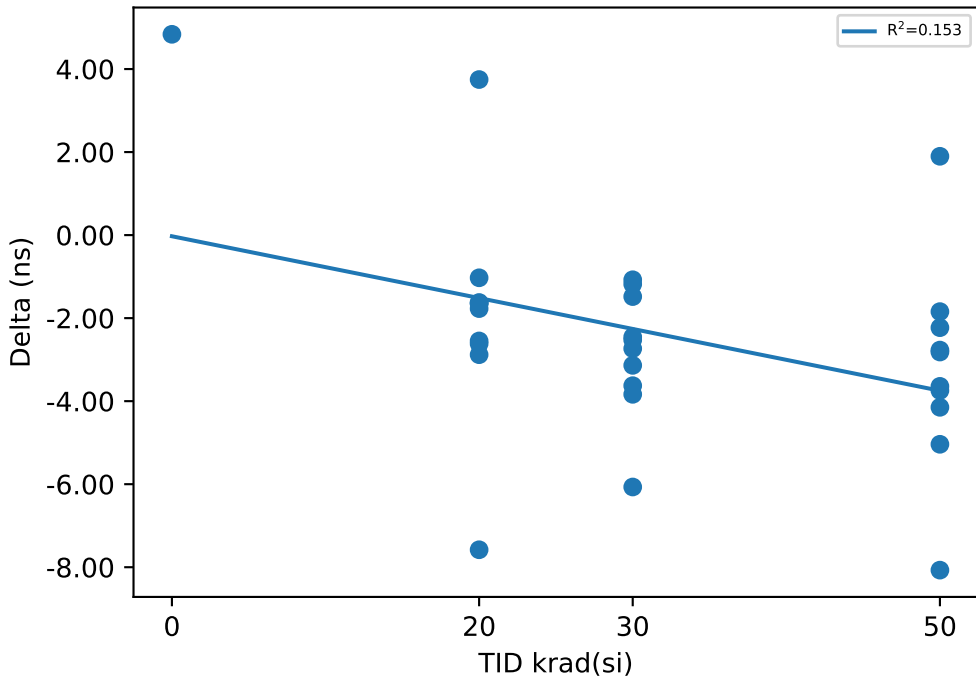
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 93.888 | 98.725 | 4.8368 |
| 321 | 20 | HDR unbiased | 91.214 | 88.665 | -2.5497 |
| 322 | 20 | HDR unbiased | 93.496 | 90.879 | -2.6167 |
| 323 | 20 | HDR unbiased | 95.39 | 93.745 | -1.6449 |
| 324 | 20 | HDR unbiased | 93.28 | 91.51 | -1.7704 |
| 325 | 20 | HDR unbiased | 91.278 | 90.25 | -1.0282 |
| 331 | 30 | HDR unbiased | 91.136 | 90.06 | -1.0757 |
| 332 | 30 | HDR unbiased | 98.469 | 96.988 | -1.4811 |
| 333 | 30 | HDR unbiased | 90.918 | 88.185 | -2.7333 |
| 334 | 30 | HDR unbiased | 92.512 | 90.058 | -2.4534 |
| 335 | 30 | HDR unbiased | 94.42 | 91.894 | -2.5254 |
| 351 | 50 | HDR unbiased | 90.406 | 92.304 | 1.8984 |
| 352 | 50 | HDR unbiased | 93.4 | 89.252 | -4.148 |
| 353 | 50 | HDR unbiased | 95.908 | 87.838 | -8.0704 |
| 354 | 50 | HDR unbiased | 92.01 | 88.266 | -3.7435 |
| 355 | 50 | HDR unbiased | 92.184 | 88.54 | -3.6434 |
| 521 | 20 | HDR biased | 92.459 | 89.578 | -2.8806 |
| 522 | 20 | HDR biased | 95.096 | 93.451 | -1.6452 |
| 523 | 20 | HDR biased | 91.631 | 90.008 | -1.6232 |
| 524 | 20 | HDR biased | 87.394 | 91.142 | 3.7473 |
| 525 | 20 | HDR biased | 92.561 | 84.982 | -7.5795 |
| 531 | 30 | HDR biased | 94.484 | 90.648 | -3.8353 |
| 532 | 30 | HDR biased | 92.54 | 89.402 | -3.1378 |
| 533 | 30 | HDR biased | 97.681 | 91.614 | -6.0676 |
| 534 | 30 | HDR biased | 94.587 | 90.96 | -3.6271 |
| 535 | 30 | HDR biased | 93.182 | 92.001 | -1.1809 |
| 551 | 50 | HDR biased | 93.214 | 90.398 | -2.8166 |
| 552 | 50 | HDR biased | 98.479 | 96.249 | -2.2296 |
| 553 | 50 | HDR biased | 93.137 | 88.098 | -5.039 |
| 554 | 50 | HDR biased | 91.867 | 90.024 | -1.8431 |
| 555 | 50 | HDR biased | 94.437 | 91.667 | -2.7697 |

TID vs Post - Pre Exposure Delta

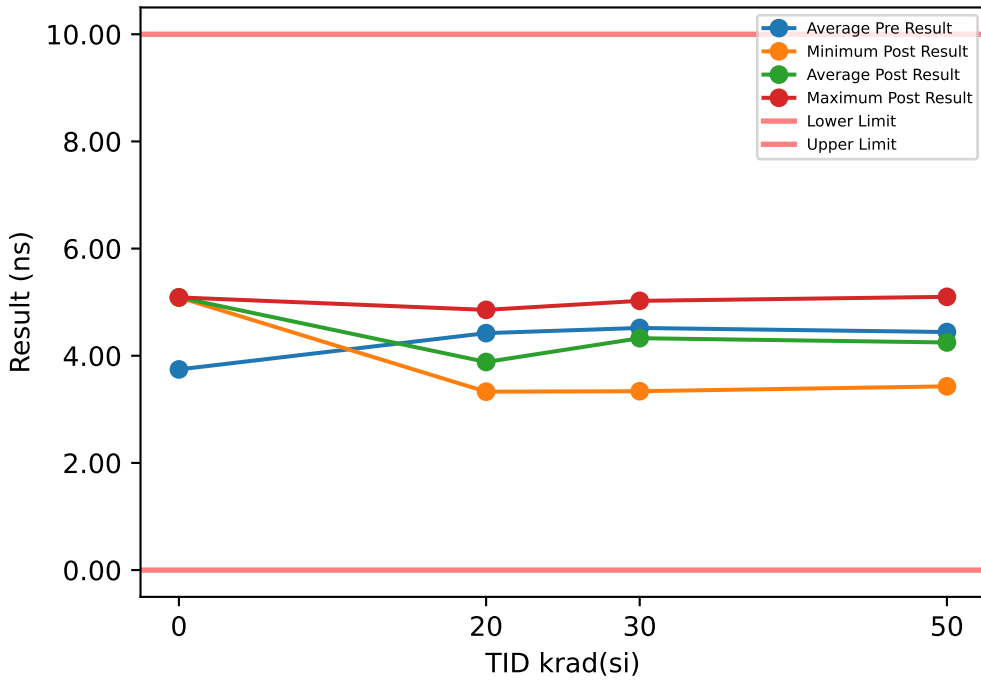


Test Statistics (ns)

| 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 | 93.888 | 93.888 | 93.888 | | 98.725 | 98.725 | 98.725 | | 4.8368 | 4.8368 | 4.8368 | |
| 20 | 87.394 | 92.38 | 95.39 | 2.2735 | 84.982 | 90.421 | 93.745 | 2.4883 | -7.5795 | -1.9591 | 3.7473 | 2.7283 |
| 30 | 90.918 | 93.993 | 98.469 | 2.5165 | 88.185 | 91.181 | 96.988 | 2.3589 | -6.0676 | -2.8118 | -1.0757 | 1.4937 |
| 50 | 90.406 | 93.504 | 98.479 | 2.3066 | 87.838 | 90.264 | 96.249 | 2.5947 | -8.0704 | -3.2405 | 1.8984 | 2.5295 |

Device Test: 97.19 T_RHL_MIN(_DHL Dead Time Min 500kHz VIN_14V)

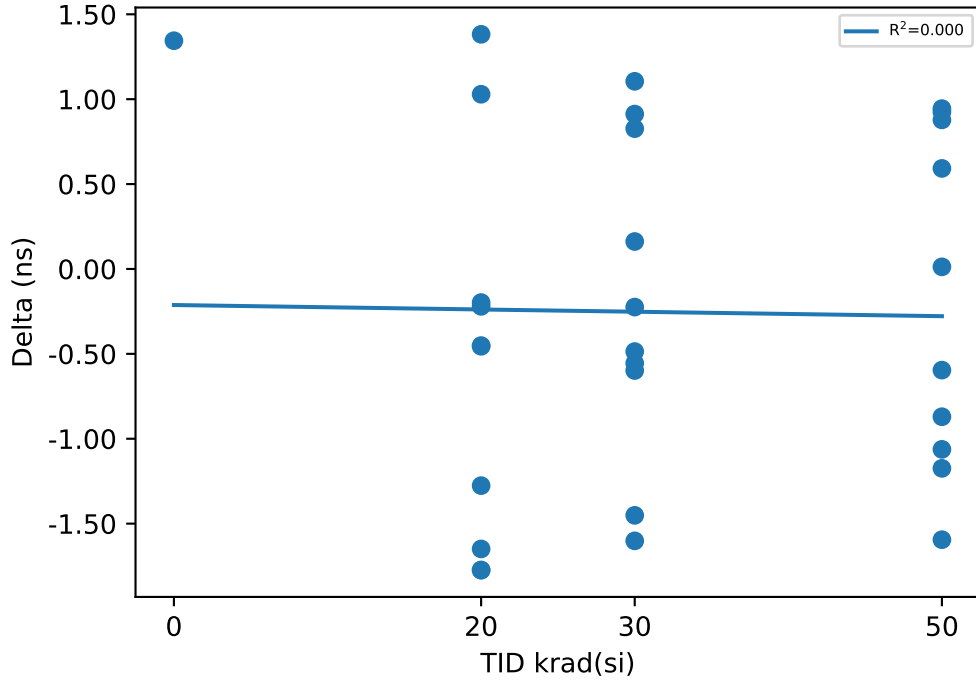
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.7448 | 5.0892 | 1.3444 |
| 321 | 20 | HDR unbiased | 5.2717 | 3.4984 | -1.7733 |
| 322 | 20 | HDR unbiased | 5.1287 | 3.3548 | -1.7739 |
| 323 | 20 | HDR unbiased | 4.2744 | 4.0541 | -0.2203 |
| 324 | 20 | HDR unbiased | 4.6652 | 4.2139 | -0.4513 |
| 325 | 20 | HDR unbiased | 2.7696 | 4.1517 | 1.3821 |
| 331 | 30 | HDR unbiased | 3.9674 | 4.7939 | 0.8265 |
| 332 | 30 | HDR unbiased | 3.9196 | 5.0248 | 1.1052 |
| 333 | 30 | HDR unbiased | 3.7399 | 3.9016 | 0.1617 |
| 334 | 30 | HDR unbiased | 5.4844 | 4.8862 | -0.5982 |
| 335 | 30 | HDR unbiased | 4.8452 | 4.6207 | -0.2245 |
| 351 | 50 | HDR unbiased | 3.4375 | 4.3819 | 0.9444 |
| 352 | 50 | HDR unbiased | 5.1592 | 3.5646 | -1.5946 |
| 353 | 50 | HDR unbiased | 4.9739 | 4.3781 | -0.5958 |
| 354 | 50 | HDR unbiased | 3.6782 | 4.5562 | 0.878 |
| 355 | 50 | HDR unbiased | 4.9539 | 3.7795 | -1.1744 |
| 521 | 20 | HDR biased | 4.9785 | 3.3295 | -1.649 |
| 522 | 20 | HDR biased | 5.3116 | 4.8562 | -0.4554 |
| 523 | 20 | HDR biased | 4.0744 | 3.8766 | -0.1978 |
| 524 | 20 | HDR biased | 3.0998 | 4.1288 | 1.029 |
| 525 | 20 | HDR biased | 4.6487 | 3.3726 | -1.2761 |
| 531 | 30 | HDR biased | 3.7556 | 4.668 | 0.9124 |
| 532 | 30 | HDR biased | 4.0202 | 3.4648 | -0.5554 |
| 533 | 30 | HDR biased | 5.2842 | 4.7977 | -0.4865 |
| 534 | 30 | HDR biased | 4.9397 | 3.3383 | -1.6014 |
| 535 | 30 | HDR biased | 5.2327 | 3.7816 | -1.4511 |
| 551 | 50 | HDR biased | 5.7737 | 4.9034 | -0.8703 |
| 552 | 50 | HDR biased | 4.5075 | 5.0997 | 0.5922 |
| 553 | 50 | HDR biased | 5.1891 | 4.1266 | -1.0625 |
| 554 | 50 | HDR biased | 3.3371 | 4.2618 | 0.9247 |
| 555 | 50 | HDR biased | 3.4164 | 3.4289 | 0.0125 |

TID vs Post - Pre Exposure Delta

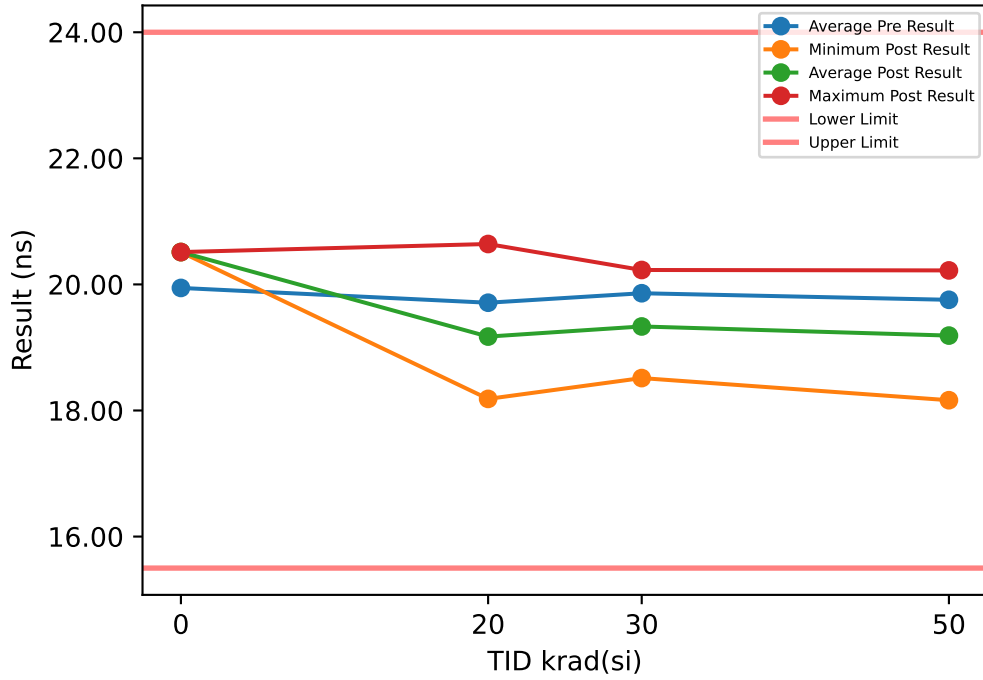


Test Statistics (ns)

| 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 | 3.7448 | 3.7448 | 3.7448 | | 5.0892 | 5.0892 | 5.0892 | | 1.3444 | 1.3444 | 1.3444 | |
| 20 | 2.7696 | 4.4223 | 5.3116 | 0.88533 | 3.3295 | 3.8837 | 4.8562 | 0.4958 | -1.7739 | -0.5386 | 1.3821 | 1.1158 |
| 30 | 3.7399 | 4.5189 | 5.4844 | 0.70019 | 3.3383 | 4.3278 | 5.0248 | 0.63605 | -1.6014 | -0.19113 | 1.1052 | 0.94407 |
| 50 | 3.3371 | 4.4426 | 5.7737 | 0.89816 | 3.4289 | 4.2481 | 5.0997 | 0.54336 | -1.5946 | -0.19458 | 0.9444 | 0.98055 |

Device Test: 97.2 T_RLH_MID(_DLH Dead Time Mid 500kHz VIN_14V)

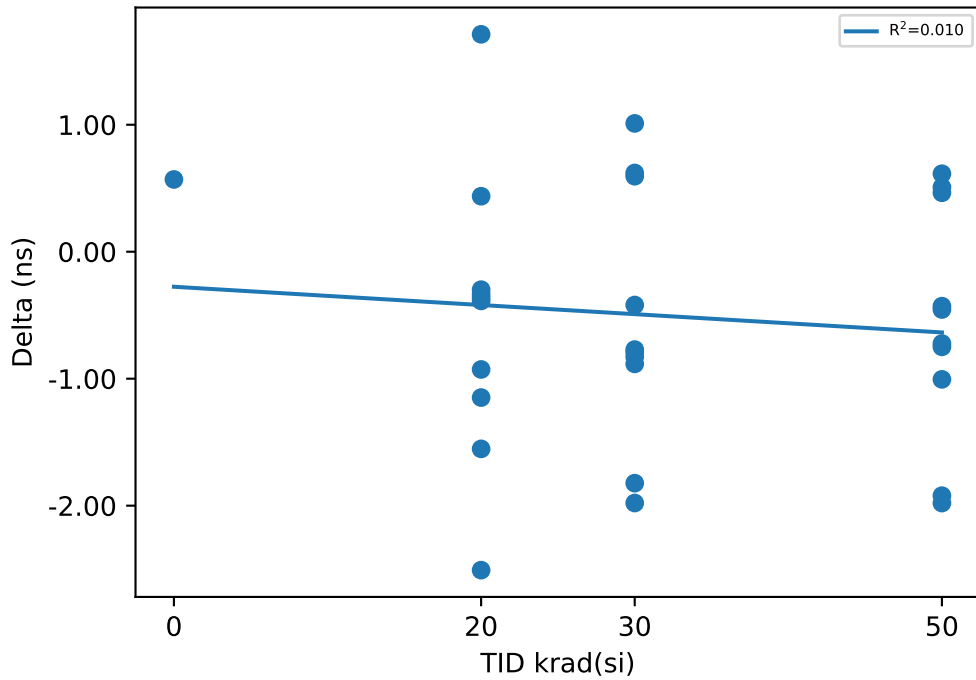
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.944 | 20.513 | 0.5691 |
| 321 | 20 | HDR unbiased | 20.281 | 19.354 | -0.9273 |
| 322 | 20 | HDR unbiased | 19.926 | 18.777 | -1.1486 |
| 323 | 20 | HDR unbiased | 18.572 | 18.184 | -0.3876 |
| 324 | 20 | HDR unbiased | 19.994 | 19.696 | -0.2989 |
| 325 | 20 | HDR unbiased | 18.741 | 19.177 | 0.4369 |
| 331 | 30 | HDR unbiased | 19.091 | 19.711 | 0.6202 |
| 332 | 30 | HDR unbiased | 19.25 | 19.845 | 0.5945 |
| 333 | 30 | HDR unbiased | 19.743 | 18.86 | -0.8835 |
| 334 | 30 | HDR unbiased | 20.196 | 19.368 | -0.8282 |
| 335 | 30 | HDR unbiased | 20.159 | 19.388 | -0.7707 |
| 351 | 50 | HDR unbiased | 19.117 | 19.731 | 0.6141 |
| 352 | 50 | HDR unbiased | 20.084 | 18.163 | -1.9214 |
| 353 | 50 | HDR unbiased | 20.43 | 19.681 | -0.7492 |
| 354 | 50 | HDR unbiased | 19.256 | 18.801 | -0.4551 |
| 355 | 50 | HDR unbiased | 19.678 | 18.672 | -1.0053 |
| 521 | 20 | HDR biased | 20.168 | 18.616 | -1.5527 |
| 522 | 20 | HDR biased | 20.305 | 19.942 | -0.3628 |
| 523 | 20 | HDR biased | 19.368 | 19.032 | -0.3355 |
| 524 | 20 | HDR biased | 18.929 | 20.641 | 1.7122 |
| 525 | 20 | HDR biased | 20.813 | 18.305 | -2.5077 |
| 531 | 30 | HDR biased | 18.876 | 19.886 | 1.0106 |
| 532 | 30 | HDR biased | 19.528 | 18.736 | -0.7912 |
| 533 | 30 | HDR biased | 20.648 | 20.229 | -0.4197 |
| 534 | 30 | HDR biased | 20.616 | 18.793 | -1.8228 |
| 535 | 30 | HDR biased | 20.493 | 18.514 | -1.9791 |
| 551 | 50 | HDR biased | 20.182 | 19.753 | -0.4288 |
| 552 | 50 | HDR biased | 19.714 | 20.222 | 0.5077 |
| 553 | 50 | HDR biased | 20.244 | 18.265 | -1.9795 |
| 554 | 50 | HDR biased | 19.332 | 19.797 | 0.4643 |
| 555 | 50 | HDR biased | 19.522 | 18.799 | -0.723 |

TID vs Post - Pre Exposure Delta

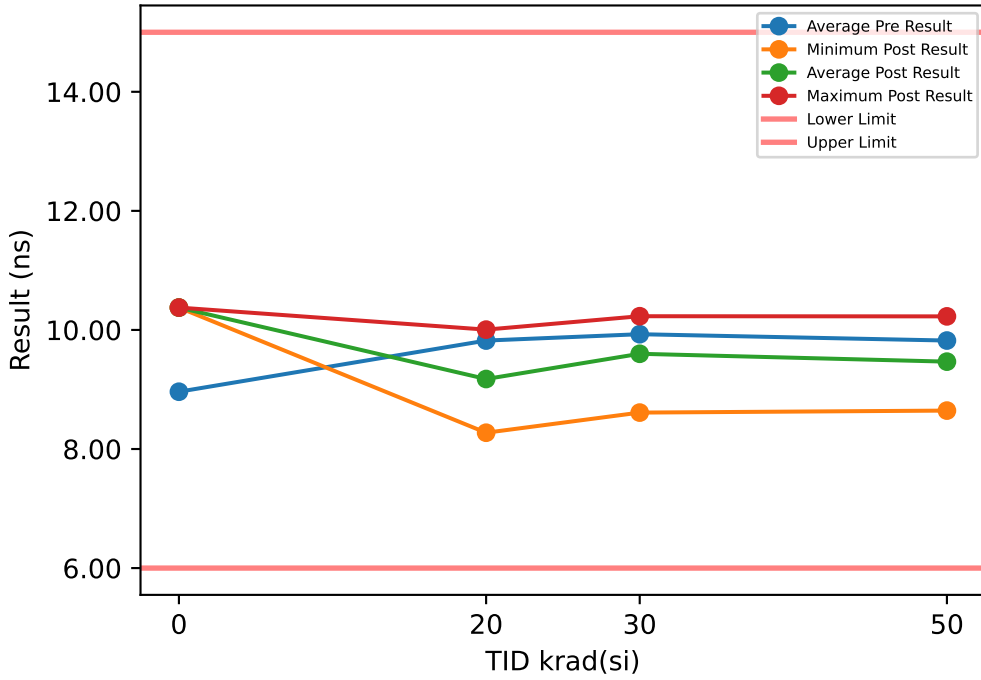


Test Statistics (ns)

| 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 | 19.944 | 19.944 | 19.944 | | 20.513 | 20.513 | 20.513 | | 0.5691 | 0.5691 | 0.5691 | |
| 20 | 18.572 | 19.71 | 20.813 | 0.75989 | 18.184 | 19.172 | 20.641 | 0.76525 | -2.5077 | -0.5372 | 1.7122 | 1.1352 |
| 30 | 18.876 | 19.86 | 20.648 | 0.65428 | 18.514 | 19.333 | 20.229 | 0.58304 | -1.9791 | -0.52699 | 1.0106 | 1.0047 |
| 50 | 19.117 | 19.756 | 20.43 | 0.45736 | 18.163 | 19.188 | 20.222 | 0.72784 | -1.9795 | -0.56762 | 0.6141 | 0.92642 |

Device Test: 97.20 T_RHL_SMALL(_DHL Dead Time Small 500kHz VIN_14V)

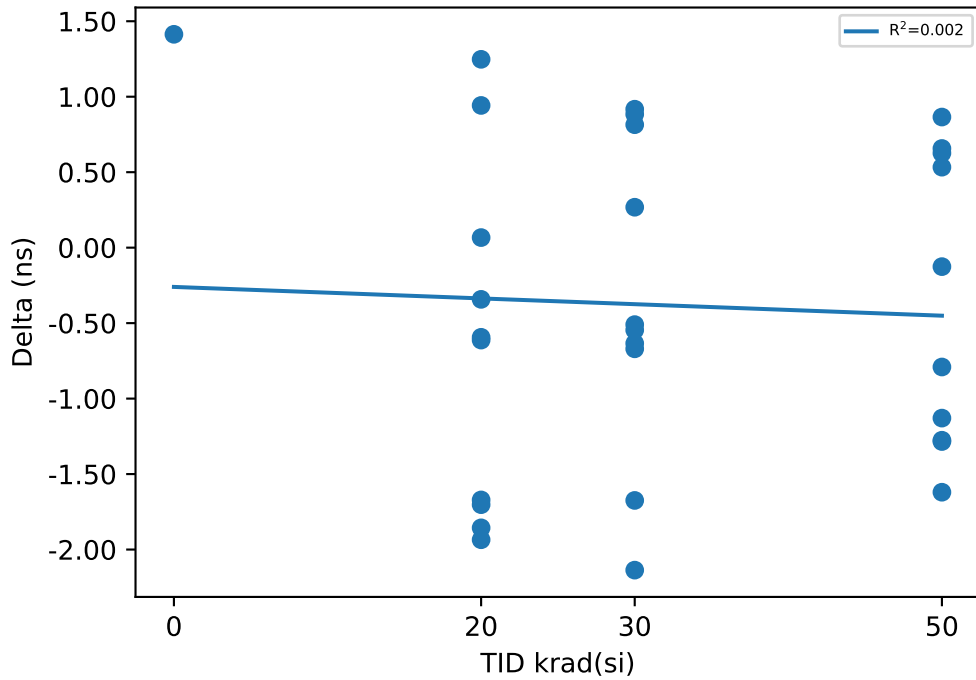
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 8.9623 | 10.376 | 1.4134 |
| 321 | 20 | HDR unbiased | 10.554 | 8.8823 | -1.6713 |
| 322 | 20 | HDR unbiased | 10.632 | 8.6966 | -1.935 |
| 323 | 20 | HDR unbiased | 9.5169 | 9.1744 | -0.3425 |
| 324 | 20 | HDR unbiased | 10.178 | 9.5838 | -0.5939 |
| 325 | 20 | HDR unbiased | 8.3494 | 9.5971 | 1.2477 |
| 331 | 30 | HDR unbiased | 9.2078 | 10.022 | 0.8146 |
| 332 | 30 | HDR unbiased | 9.3465 | 10.23 | 0.8839 |
| 333 | 30 | HDR unbiased | 9.1794 | 9.4472 | 0.2678 |
| 334 | 30 | HDR unbiased | 10.797 | 10.163 | -0.6342 |
| 335 | 30 | HDR unbiased | 10.527 | 9.9808 | -0.5459 |
| 351 | 50 | HDR unbiased | 8.9864 | 9.6129 | 0.6265 |
| 352 | 50 | HDR unbiased | 10.651 | 9.3756 | -1.2758 |
| 353 | 50 | HDR unbiased | 10.406 | 9.6153 | -0.7906 |
| 354 | 50 | HDR unbiased | 9.0151 | 9.8804 | 0.8653 |
| 355 | 50 | HDR unbiased | 10.535 | 9.2502 | -1.2844 |
| 521 | 20 | HDR biased | 10.333 | 8.6306 | -1.7027 |
| 522 | 20 | HDR biased | 10.618 | 10.005 | -0.6123 |
| 523 | 20 | HDR biased | 9.3953 | 9.4621 | 0.0668 |
| 524 | 20 | HDR biased | 8.5101 | 9.4523 | 0.9422 |
| 525 | 20 | HDR biased | 10.13 | 8.2736 | -1.8562 |
| 531 | 30 | HDR biased | 9.0758 | 9.993 | 0.9172 |
| 532 | 30 | HDR biased | 9.5086 | 8.8384 | -0.6702 |
| 533 | 30 | HDR biased | 10.587 | 10.077 | -0.5098 |
| 534 | 30 | HDR biased | 10.307 | 8.632 | -1.6746 |
| 535 | 30 | HDR biased | 10.748 | 8.6118 | -2.1364 |
| 551 | 50 | HDR biased | 10.975 | 9.8456 | -1.1292 |
| 552 | 50 | HDR biased | 9.6947 | 10.228 | 0.5332 |
| 553 | 50 | HDR biased | 10.366 | 8.7456 | -1.6202 |
| 554 | 50 | HDR biased | 8.8199 | 9.4769 | 0.657 |
| 555 | 50 | HDR biased | 8.771 | 8.6453 | -0.1257 |

TID vs Post - Pre Exposure Delta

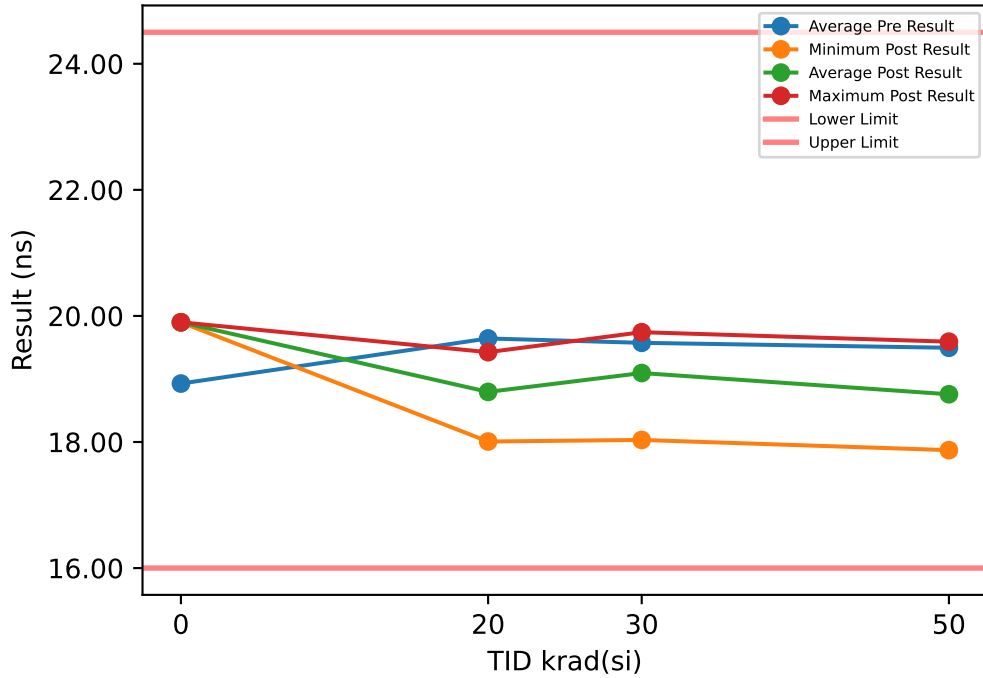


Test Statistics (ns)

| 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 | 8.9623 | 8.9623 | 8.9623 | | 10.376 | 10.376 | 10.376 | | 1.4134 | 1.4134 | 1.4134 | |
| 20 | 8.3494 | 9.8215 | 10.632 | 0.84795 | 8.2736 | 9.1758 | 10.005 | 0.53928 | -1.935 | -0.64572 | 1.2477 | 1.155 |
| 30 | 9.0758 | 9.9283 | 10.797 | 0.72134 | 8.6118 | 9.5996 | 10.23 | 0.66135 | -2.1364 | -0.32876 | 0.9172 | 1.057 |
| 50 | 8.771 | 9.822 | 10.975 | 0.85866 | 8.6453 | 9.4676 | 10.228 | 0.49301 | -1.6202 | -0.35439 | 0.8653 | 0.96722 |

Device Test: 97.21 T_RHL_MID(_DHL Dead Time Mid 500kHz VIN_14V)

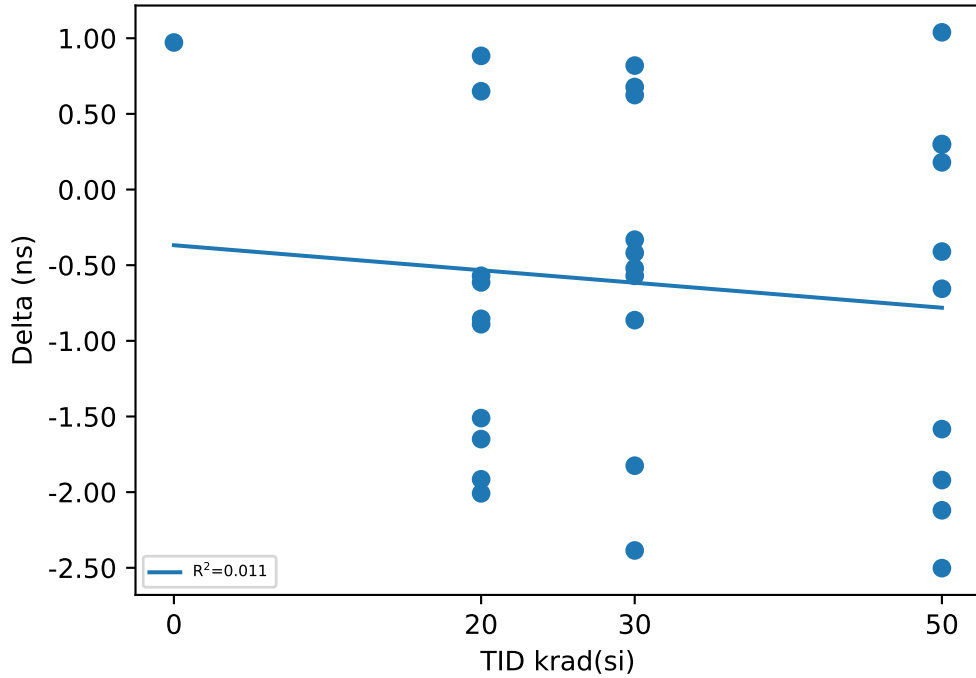
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 18.927 | 19.899 | 0.9719 |
| 321 | 20 | HDR unbiased | 20.605 | 18.955 | -1.6494 |
| 322 | 20 | HDR unbiased | 20.315 | 18.805 | -1.5105 |
| 323 | 20 | HDR unbiased | 19.193 | 18.579 | -0.6138 |
| 324 | 20 | HDR unbiased | 20.207 | 19.352 | -0.8543 |
| 325 | 20 | HDR unbiased | 18.542 | 19.425 | 0.8835 |
| 331 | 30 | HDR unbiased | 18.838 | 19.463 | 0.6242 |
| 332 | 30 | HDR unbiased | 18.923 | 19.742 | 0.8192 |
| 333 | 30 | HDR unbiased | 19.16 | 18.828 | -0.3314 |
| 334 | 30 | HDR unbiased | 20.226 | 19.655 | -0.5703 |
| 335 | 30 | HDR unbiased | 20.376 | 19.513 | -0.8633 |
| 351 | 50 | HDR unbiased | 18.7 | 18.997 | 0.2969 |
| 352 | 50 | HDR unbiased | 20.652 | 18.532 | -2.1199 |
| 353 | 50 | HDR unbiased | 19.785 | 19.13 | -0.6558 |
| 354 | 50 | HDR unbiased | 18.552 | 19.591 | 1.0391 |
| 355 | 50 | HDR unbiased | 20.614 | 18.112 | -2.5022 |
| 521 | 20 | HDR biased | 20.182 | 18.174 | -2.0078 |
| 522 | 20 | HDR biased | 20.104 | 19.214 | -0.8902 |
| 523 | 20 | HDR biased | 18.992 | 18.422 | -0.5701 |
| 524 | 20 | HDR biased | 18.364 | 19.014 | 0.6495 |
| 525 | 20 | HDR biased | 19.923 | 18.008 | -1.915 |
| 531 | 30 | HDR biased | 18.751 | 19.429 | 0.6777 |
| 532 | 30 | HDR biased | 18.971 | 18.553 | -0.4182 |
| 533 | 30 | HDR biased | 20.073 | 19.552 | -0.5206 |
| 534 | 30 | HDR biased | 19.998 | 18.173 | -1.8252 |
| 535 | 30 | HDR biased | 20.418 | 18.033 | -2.3853 |
| 551 | 50 | HDR biased | 20.584 | 19.001 | -1.5834 |
| 552 | 50 | HDR biased | 19.104 | 19.405 | 0.3009 |
| 553 | 50 | HDR biased | 19.791 | 17.871 | -1.9201 |
| 554 | 50 | HDR biased | 18.644 | 18.824 | 0.1797 |
| 555 | 50 | HDR biased | 18.521 | 18.111 | -0.41 |

TID vs Post - Pre Exposure Delta

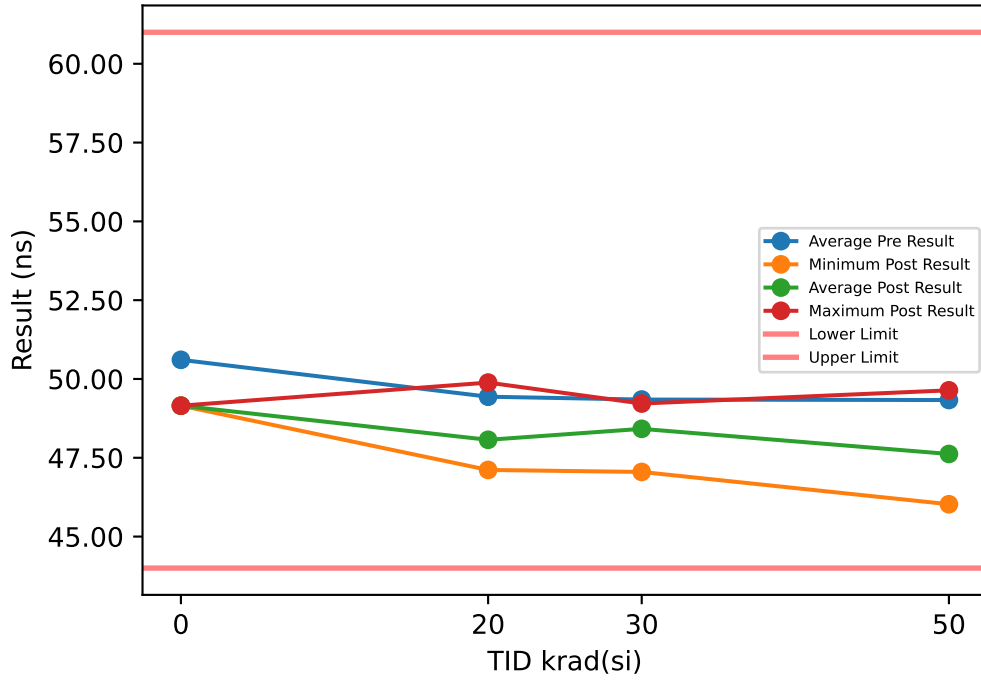


Test Statistics (ns)

| 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 | 18.927 | 18.927 | 18.927 | | 19.899 | 19.899 | 19.899 | | 0.9719 | 0.9719 | 0.9719 | |
| 20 | 18.364 | 19.643 | 20.605 | 0.7994 | 18.008 | 18.795 | 19.425 | 0.48852 | -2.0078 | -0.84781 | 0.8835 | 0.99662 |
| 30 | 18.751 | 19.573 | 20.418 | 0.69817 | 18.033 | 19.094 | 19.742 | 0.64176 | -2.3853 | -0.47932 | 0.8192 | 1.0472 |
| 50 | 18.521 | 19.495 | 20.652 | 0.90018 | 17.871 | 18.757 | 19.591 | 0.58176 | -2.5022 | -0.73748 | 1.0391 | 1.2202 |

Device Test: 97.22 T_RHL_LARGE(_DHL Dead Time Large 500kHz VIN_14V)

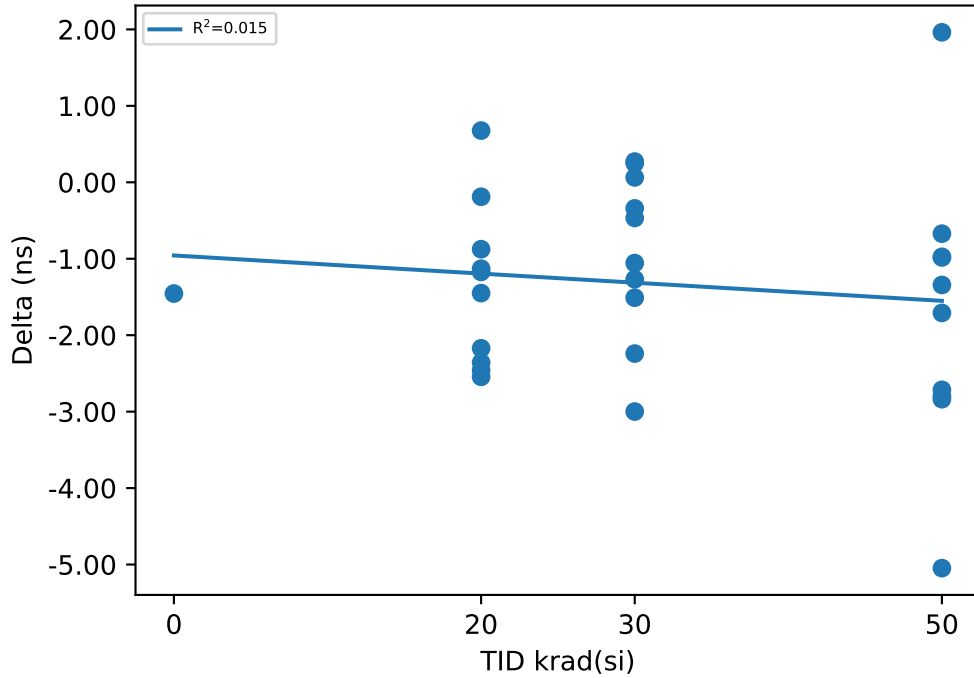
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 50.607 | 49.152 | -1.4552 |
| 321 | 20 | HDR unbiased | 50.491 | 48.134 | -2.3576 |
| 322 | 20 | HDR unbiased | 50.612 | 48.156 | -2.4561 |
| 323 | 20 | HDR unbiased | 48.273 | 47.398 | -0.8751 |
| 324 | 20 | HDR unbiased | 50.549 | 49.376 | -1.1725 |
| 325 | 20 | HDR unbiased | 49.209 | 49.885 | 0.6765 |
| 331 | 30 | HDR unbiased | 48.287 | 48.351 | 0.0639 |
| 332 | 30 | HDR unbiased | 48.645 | 48.917 | 0.2712 |
| 333 | 30 | HDR unbiased | 49.297 | 48.241 | -1.0564 |
| 334 | 30 | HDR unbiased | 50.415 | 48.906 | -1.5094 |
| 335 | 30 | HDR unbiased | 50.489 | 49.22 | -1.2687 |
| 351 | 50 | HDR unbiased | 49.008 | 48.033 | -0.9749 |
| 352 | 50 | HDR unbiased | 51.24 | 48.526 | -2.7147 |
| 353 | 50 | HDR unbiased | 50.005 | 48.296 | -1.7089 |
| 354 | 50 | HDR unbiased | 47.678 | 49.64 | 1.9621 |
| 355 | 50 | HDR unbiased | 51.854 | 46.807 | -5.0473 |
| 521 | 20 | HDR biased | 49.658 | 47.114 | -2.5448 |
| 522 | 20 | HDR biased | 48.73 | 47.28 | -1.4495 |
| 523 | 20 | HDR biased | 48.323 | 47.192 | -1.1303 |
| 524 | 20 | HDR biased | 48.646 | 48.457 | -0.1894 |
| 525 | 20 | HDR biased | 49.879 | 47.707 | -2.1717 |
| 531 | 30 | HDR biased | 48.281 | 48.531 | 0.2497 |
| 532 | 30 | HDR biased | 48.919 | 48.578 | -0.3414 |
| 533 | 30 | HDR biased | 49.372 | 48.905 | -0.4665 |
| 534 | 30 | HDR biased | 49.716 | 47.476 | -2.2404 |
| 535 | 30 | HDR biased | 50.049 | 47.05 | -2.9989 |
| 551 | 50 | HDR biased | 49.459 | 46.663 | -2.7966 |
| 552 | 50 | HDR biased | 48.068 | 47.396 | -0.6719 |
| 553 | 50 | HDR biased | 48.863 | 46.026 | -2.8374 |
| 554 | 50 | HDR biased | 48.735 | 47.753 | -0.9826 |
| 555 | 50 | HDR biased | 48.41 | 47.067 | -1.343 |

TID vs Post - Pre Exposure Delta

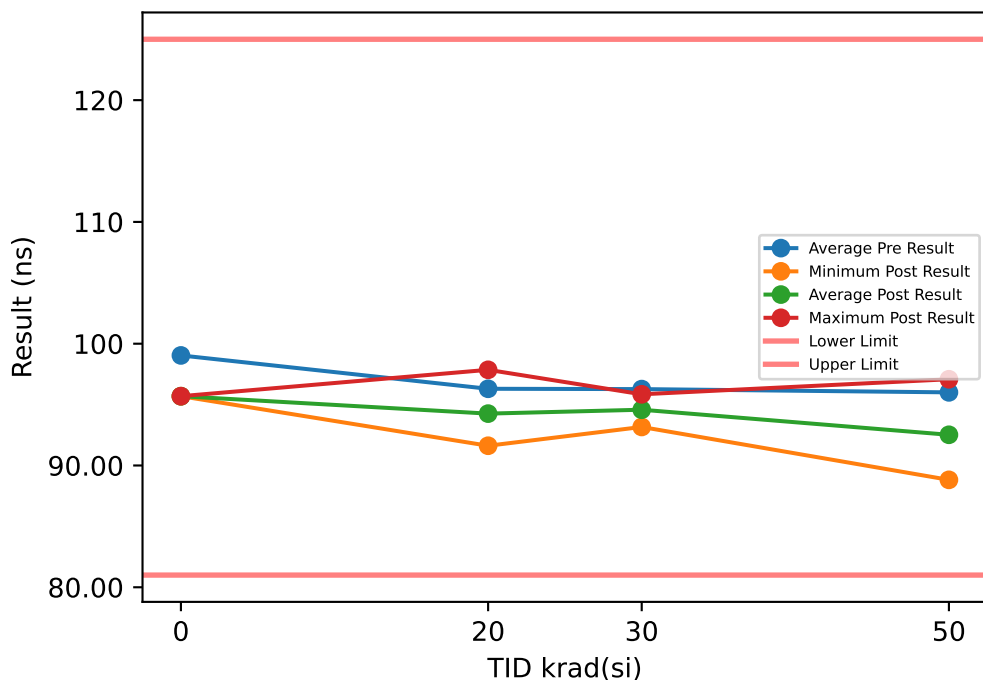


Test Statistics (ns)

| 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 | 50.607 | 50.607 | 50.607 | | 49.152 | 49.152 | 49.152 | | -1.4552 | -1.4552 | -1.4552 | |
| 20 | 48.273 | 49.437 | 50.612 | 0.9278 | 47.114 | 48.07 | 49.885 | 0.94598 | -2.5448 | -1.367 | 0.6765 | 1.0597 |
| 30 | 48.281 | 49.347 | 50.489 | 0.8173 | 47.05 | 48.418 | 49.22 | 0.68324 | -2.9989 | -0.92969 | 0.2712 | 1.0979 |
| 50 | 47.678 | 49.332 | 51.854 | 1.3473 | 46.026 | 47.621 | 49.64 | 1.0552 | -5.0473 | -1.7115 | 1.9621 | 1.8368 |

Device Test: 97.23 T_RHL_MAX(_DHL Dead Time Max 500kHz VIN_14V)

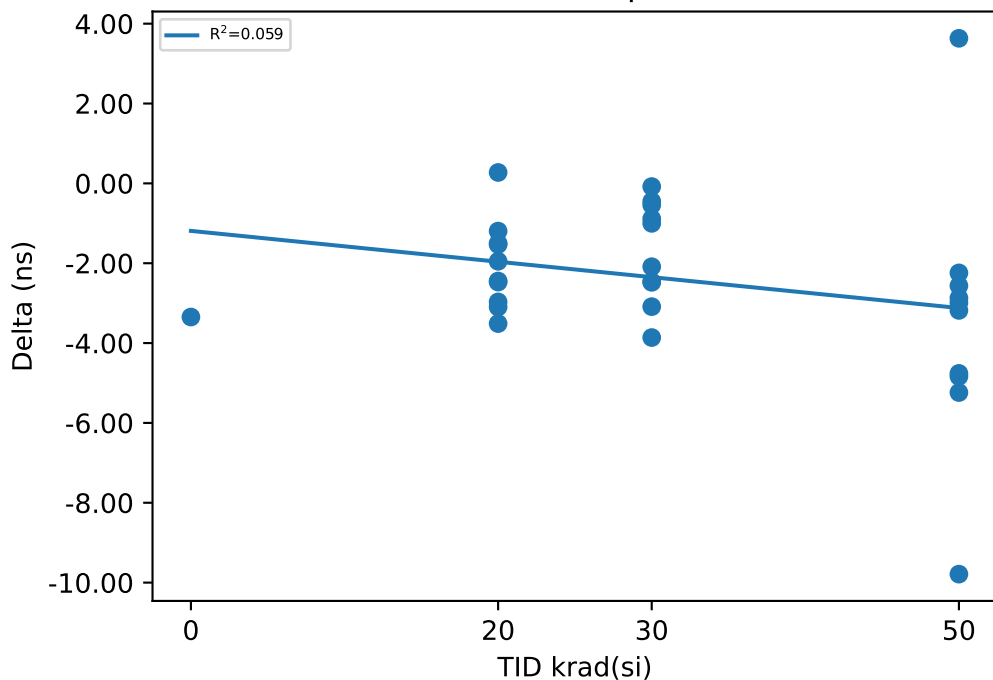
TID vs Result Stats



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 99.037 | 95.69 | -3.3476 |
| 321 | 20 | HDR unbiased | 97.475 | 94.378 | -3.0969 |
| 322 | 20 | HDR unbiased | 98.719 | 95.207 | -3.5118 |
| 323 | 20 | HDR unbiased | 94.018 | 92.517 | -1.5003 |
| 324 | 20 | HDR unbiased | 97.963 | 96.431 | -1.5315 |
| 325 | 20 | HDR unbiased | 97.582 | 97.856 | 0.2733 |
| 331 | 30 | HDR unbiased | 94.707 | 93.706 | -1.0014 |
| 332 | 30 | HDR unbiased | 95.793 | 94.908 | -0.8847 |
| 333 | 30 | HDR unbiased | 96.543 | 94.456 | -2.0873 |
| 334 | 30 | HDR unbiased | 97.414 | 94.936 | -2.4781 |
| 335 | 30 | HDR unbiased | 97.934 | 95.471 | -2.4636 |
| 351 | 50 | HDR unbiased | 96.444 | 93.572 | -2.8716 |
| 352 | 50 | HDR unbiased | 99.447 | 94.612 | -4.8356 |
| 353 | 50 | HDR unbiased | 97.207 | 94.025 | -3.1821 |
| 354 | 50 | HDR unbiased | 93.447 | 97.081 | 3.6335 |
| 355 | 50 | HDR unbiased | 100.73 | 90.94 | -9.7877 |
| 521 | 20 | HDR biased | 95.67 | 92.701 | -2.9689 |
| 522 | 20 | HDR biased | 94.093 | 91.621 | -2.4722 |
| 523 | 20 | HDR biased | 94.432 | 92.481 | -1.9517 |
| 524 | 20 | HDR biased | 95.945 | 94.75 | -1.1953 |
| 525 | 20 | HDR biased | 97.093 | 94.648 | -2.4453 |
| 531 | 30 | HDR biased | 94.851 | 94.309 | -0.5414 |
| 532 | 30 | HDR biased | 96.296 | 95.846 | -0.4504 |
| 533 | 30 | HDR biased | 95.683 | 95.603 | -0.0797 |
| 534 | 30 | HDR biased | 96.251 | 93.163 | -3.0877 |
| 535 | 30 | HDR biased | 97.25 | 93.388 | -3.8616 |
| 551 | 50 | HDR biased | 94.396 | 89.636 | -4.7594 |
| 552 | 50 | HDR biased | 93.709 | 91.145 | -2.5643 |
| 553 | 50 | HDR biased | 94.059 | 88.82 | -5.239 |
| 554 | 50 | HDR biased | 95.561 | 92.572 | -2.9894 |
| 555 | 50 | HDR biased | 95.052 | 92.81 | -2.2425 |

TID vs Post - Pre Exposure Delta

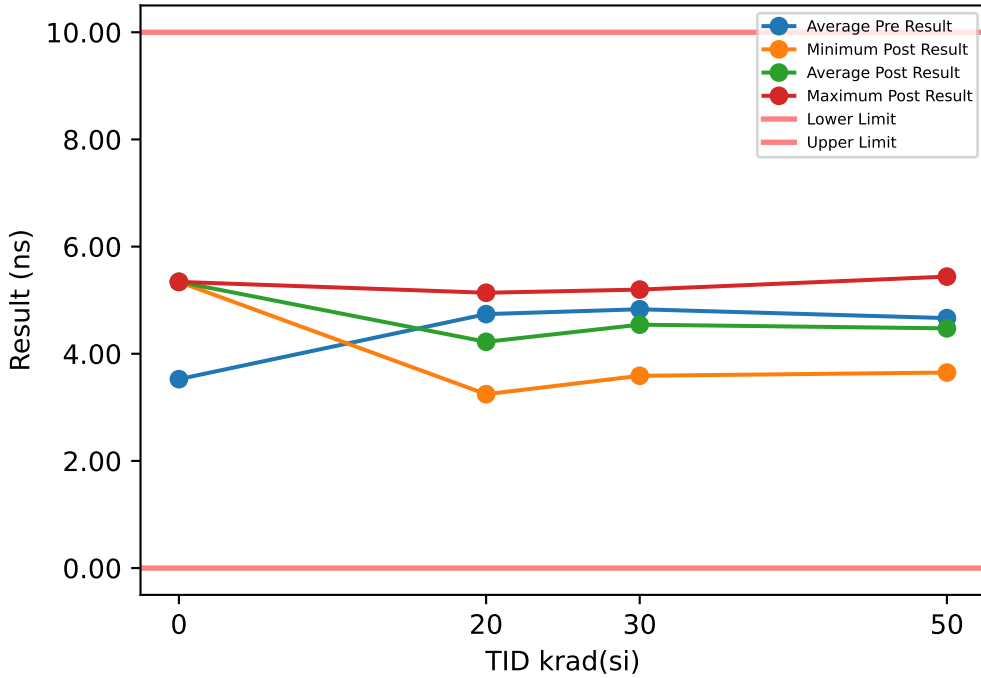


Test Statistics (ns)

| 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 | 99.037 | 99.037 | 99.037 | | 95.69 | 95.69 | 95.69 | | -3.3476 | -3.3476 | -3.3476 | |
| 20 | 94.018 | 96.299 | 98.719 | 1.7113 | 91.621 | 94.259 | 97.856 | 1.959 | -3.5118 | -2.0401 | 0.2733 | 1.1115 |
| 30 | 94.707 | 96.272 | 97.934 | 1.0616 | 93.163 | 94.579 | 95.846 | 0.94026 | -3.8616 | -1.6936 | -0.0797 | 1.2745 |
| 50 | 93.447 | 96.005 | 100.73 | 2.4739 | 88.82 | 92.521 | 97.081 | 2.4726 | -9.7877 | -3.4838 | 3.6335 | 3.3338 |

Device Test: 97.24 T_RHL_MIN(_DHL Dead Time Min 1MHz VIN_14V)

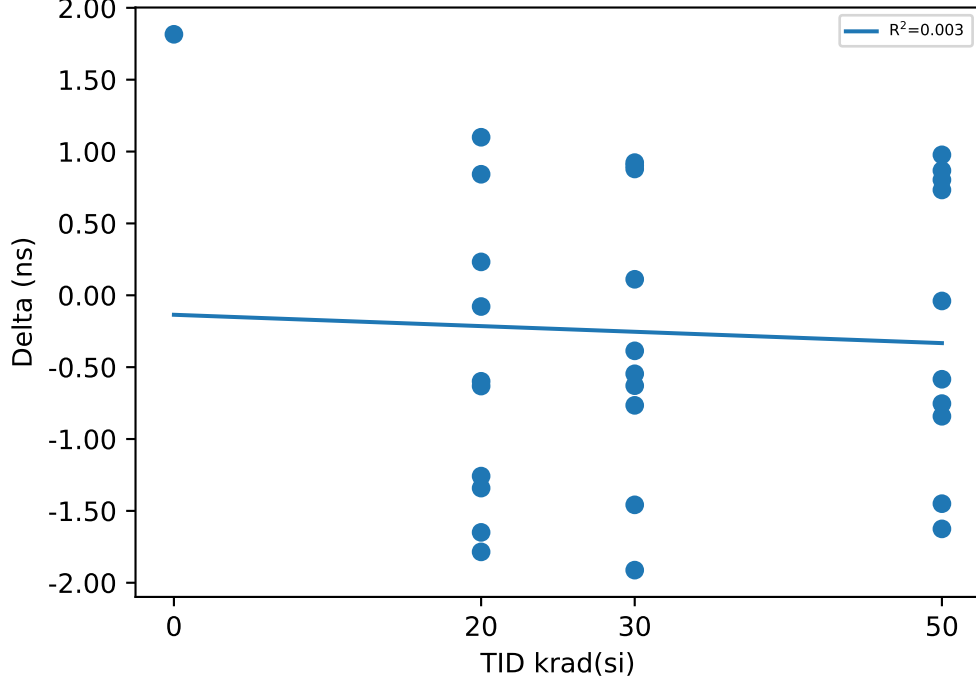
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.5257 | 5.3414 | 1.8157 |
| 321 | 20 | HDR unbiased | 5.4812 | 3.8317 | -1.6495 |
| 322 | 20 | HDR unbiased | 5.2801 | 3.9387 | -1.3414 |
| 323 | 20 | HDR unbiased | 4.4117 | 4.644 | 0.2323 |
| 324 | 20 | HDR unbiased | 4.9802 | 4.3818 | -0.5984 |
| 325 | 20 | HDR unbiased | 3.3152 | 4.4147 | 1.0995 |
| 331 | 30 | HDR unbiased | 4.1433 | 5.0664 | 0.9231 |
| 332 | 30 | HDR unbiased | 4.2944 | 5.1974 | 0.903 |
| 333 | 30 | HDR unbiased | 4.0918 | 4.2031 | 0.1113 |
| 334 | 30 | HDR unbiased | 5.8681 | 5.1024 | -0.7657 |
| 335 | 30 | HDR unbiased | 5.2664 | 4.8799 | -0.3865 |
| 351 | 50 | HDR unbiased | 3.876 | 4.6088 | 0.7328 |
| 352 | 50 | HDR unbiased | 5.2958 | 3.846 | -1.4498 |
| 353 | 50 | HDR unbiased | 5.2174 | 4.6332 | -0.5842 |
| 354 | 50 | HDR unbiased | 3.9228 | 4.7261 | 0.8033 |
| 355 | 50 | HDR unbiased | 5.1653 | 4.3235 | -0.8418 |
| 521 | 20 | HDR biased | 5.2408 | 3.9828 | -1.258 |
| 522 | 20 | HDR biased | 5.7701 | 5.1385 | -0.6316 |
| 523 | 20 | HDR biased | 4.4834 | 4.4052 | -0.0782 |
| 524 | 20 | HDR biased | 3.4022 | 4.2442 | 0.842 |
| 525 | 20 | HDR biased | 5.0304 | 3.2452 | -1.7852 |
| 531 | 30 | HDR biased | 4.0749 | 4.9537 | 0.8788 |
| 532 | 30 | HDR biased | 4.4299 | 3.801 | -0.6289 |
| 533 | 30 | HDR biased | 5.5731 | 5.0269 | -0.5462 |
| 534 | 30 | HDR biased | 5.0465 | 3.5886 | -1.4579 |
| 535 | 30 | HDR biased | 5.5199 | 3.6077 | -1.9122 |
| 551 | 50 | HDR biased | 5.8747 | 5.1212 | -0.7535 |
| 552 | 50 | HDR biased | 4.4624 | 5.4396 | 0.9772 |
| 553 | 50 | HDR biased | 5.5061 | 3.8809 | -1.6252 |
| 554 | 50 | HDR biased | 3.644 | 4.5119 | 0.8679 |
| 555 | 50 | HDR biased | 3.6889 | 3.6494 | -0.0395 |

TID vs Post - Pre Exposure Delta

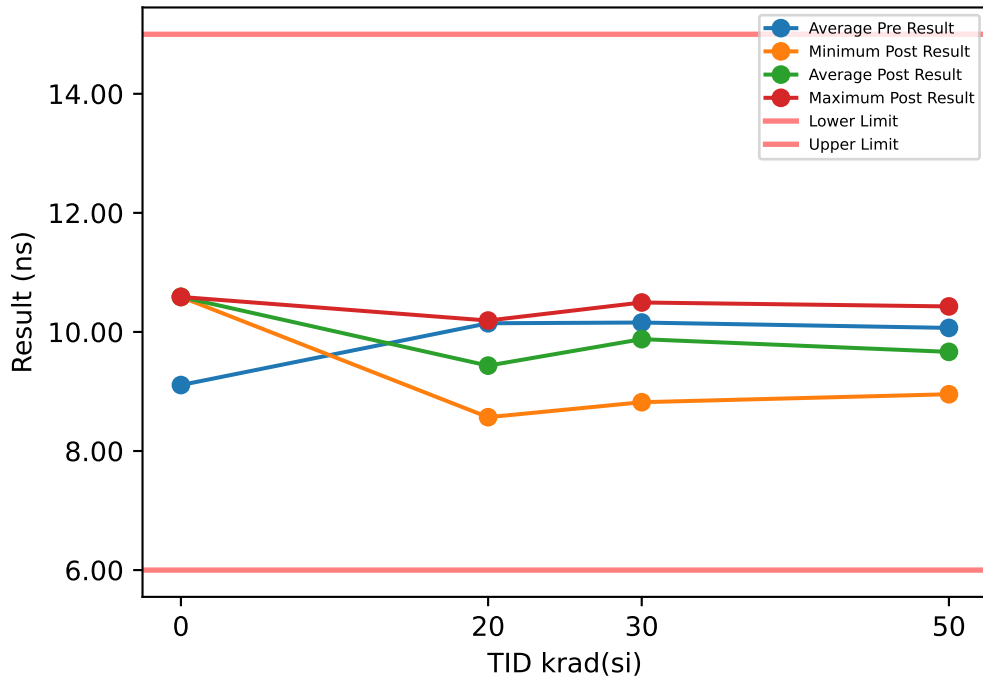


Test Statistics (ns)

| 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 | 3.5257 | 3.5257 | 3.5257 | | 5.3414 | 5.3414 | 5.3414 | | 1.8157 | 1.8157 | 1.8157 | |
| 20 | 3.3152 | 4.7395 | 5.7701 | 0.83589 | 3.2452 | 4.2227 | 5.1385 | 0.51194 | -1.7852 | -0.51685 | 1.0995 | 1.0194 |
| 30 | 4.0749 | 4.8308 | 5.8681 | 0.69736 | 3.5886 | 4.5427 | 5.1974 | 0.66527 | -1.9122 | -0.28812 | 0.9231 | 0.99071 |
| 50 | 3.644 | 4.6653 | 5.8747 | 0.8389 | 3.6494 | 4.4741 | 5.4396 | 0.56848 | -1.6252 | -0.19128 | 0.9772 | 0.9937 |

Device Test: 97.25 T_RHL_SMALL(_DHL Dead Time Small 1MHz VIN_14V)

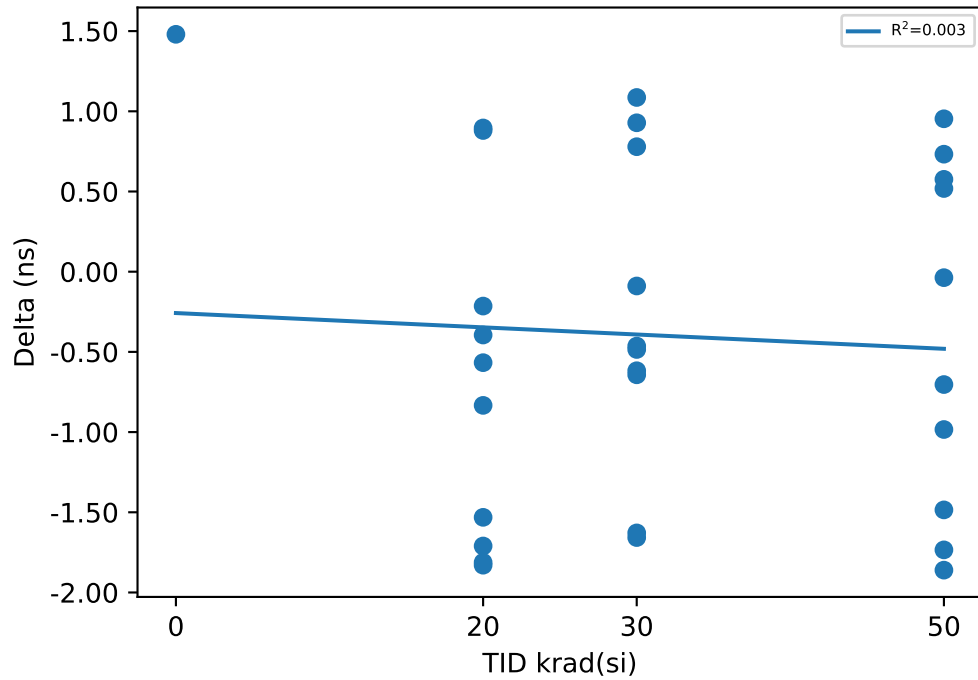
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.1079 | 10.588 | 1.48 |
| 321 | 20 | HDR unbiased | 11.091 | 9.559 | -1.5315 |
| 322 | 20 | HDR unbiased | 10.76 | 8.9304 | -1.8299 |
| 323 | 20 | HDR unbiased | 9.7799 | 9.5656 | -0.2143 |
| 324 | 20 | HDR unbiased | 10.374 | 9.8073 | -0.5672 |
| 325 | 20 | HDR unbiased | 8.9286 | 9.8247 | 0.8961 |
| 331 | 30 | HDR unbiased | 9.4658 | 10.245 | 0.7793 |
| 332 | 30 | HDR unbiased | 9.4084 | 10.495 | 1.0862 |
| 333 | 30 | HDR unbiased | 9.6613 | 9.5722 | -0.0891 |
| 334 | 30 | HDR unbiased | 11.016 | 10.398 | -0.6175 |
| 335 | 30 | HDR unbiased | 10.696 | 10.232 | -0.4638 |
| 351 | 50 | HDR unbiased | 9.2462 | 9.9788 | 0.7326 |
| 352 | 50 | HDR unbiased | 10.847 | 9.113 | -1.7344 |
| 353 | 50 | HDR unbiased | 10.638 | 9.9341 | -0.7036 |
| 354 | 50 | HDR unbiased | 9.2288 | 10.182 | 0.9533 |
| 355 | 50 | HDR unbiased | 10.911 | 9.0499 | -1.8607 |
| 521 | 20 | HDR biased | 10.662 | 8.9523 | -1.7102 |
| 522 | 20 | HDR biased | 11.025 | 10.191 | -0.8335 |
| 523 | 20 | HDR biased | 9.6418 | 9.247 | -0.3948 |
| 524 | 20 | HDR biased | 8.8155 | 9.6958 | 0.8803 |
| 525 | 20 | HDR biased | 10.38 | 8.5679 | -1.8123 |
| 531 | 30 | HDR biased | 9.3333 | 10.262 | 0.9284 |
| 532 | 30 | HDR biased | 9.7679 | 9.1251 | -0.6428 |
| 533 | 30 | HDR biased | 10.839 | 10.354 | -0.4849 |
| 534 | 30 | HDR biased | 10.448 | 8.8196 | -1.6286 |
| 535 | 30 | HDR biased | 10.944 | 9.2869 | -1.6575 |
| 551 | 50 | HDR biased | 11.194 | 10.21 | -0.9839 |
| 552 | 50 | HDR biased | 9.9099 | 10.429 | 0.5187 |
| 553 | 50 | HDR biased | 10.59 | 9.1048 | -1.4851 |
| 554 | 50 | HDR biased | 9.1232 | 9.699 | 0.5758 |
| 555 | 50 | HDR biased | 8.9909 | 8.9537 | -0.0372 |

TID vs Post - Pre Exposure Delta

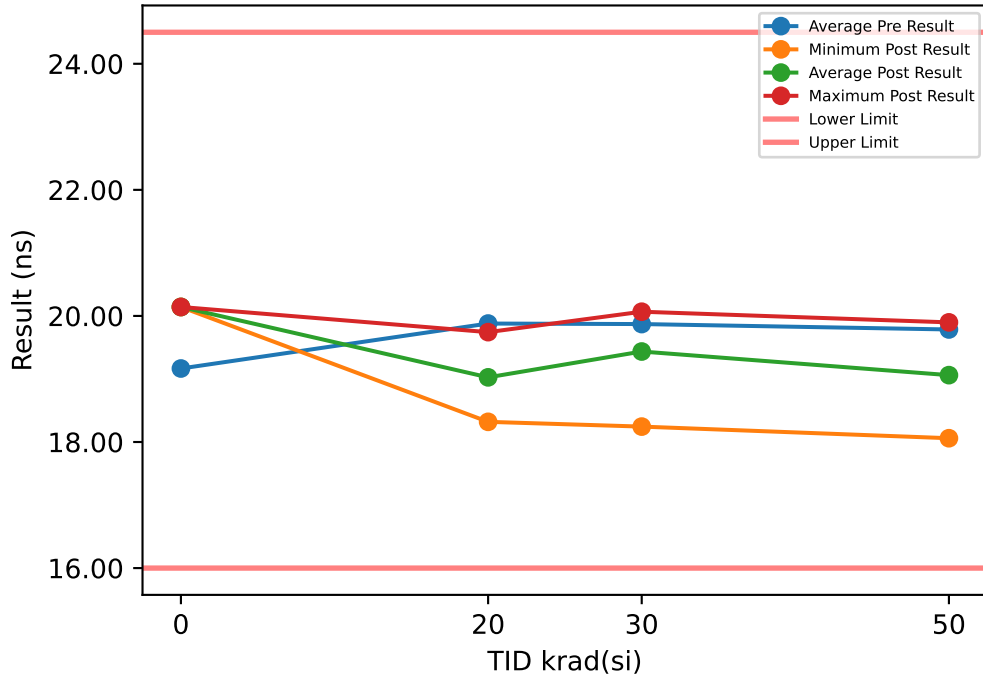


Test Statistics (ns)

| 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 | 9.1079 | 9.1079 | 9.1079 | | 10.588 | 10.588 | 10.588 | | 1.48 | 1.48 | 1.48 | |
| 20 | 8.8155 | 10.146 | 11.091 | 0.82033 | 8.5679 | 9.4341 | 10.191 | 0.49867 | -1.8299 | -0.71173 | 0.8961 | 1.0346 |
| 30 | 9.3333 | 10.158 | 11.016 | 0.69217 | 8.8196 | 9.879 | 10.495 | 0.616 | -1.6575 | -0.27903 | 1.0862 | 0.97313 |
| 50 | 8.9909 | 10.068 | 11.194 | 0.8589 | 8.9537 | 9.6654 | 10.429 | 0.56 | -1.8607 | -0.40245 | 0.9533 | 1.0836 |

Device Test: 97.26 T_RHL_MID(_DHL Dead Time Mid 1MHz VIN_14V)

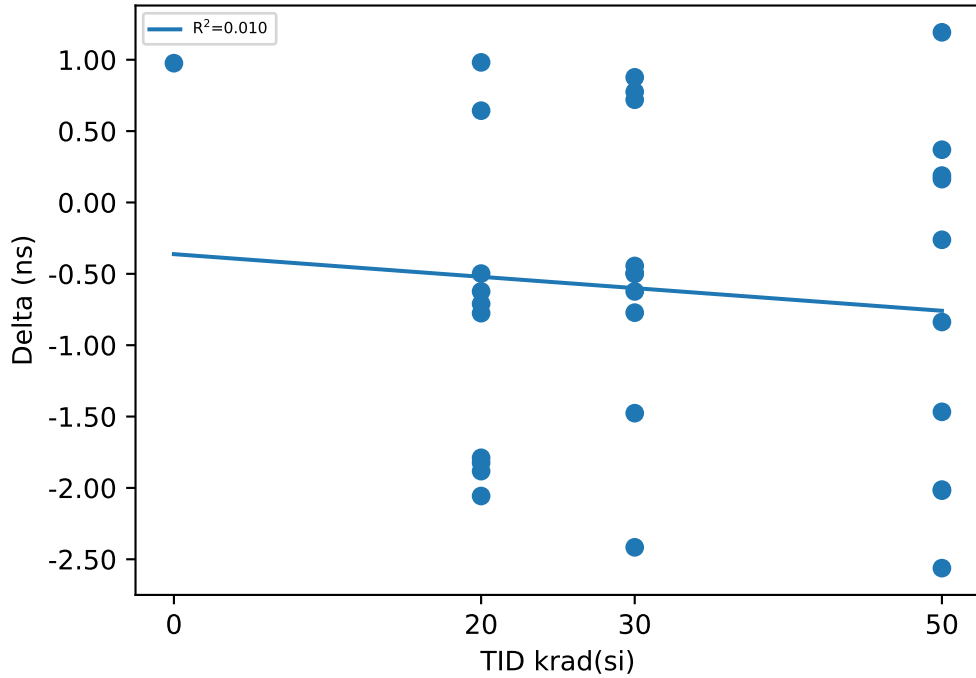
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.166 | 20.142 | 0.9759 |
| 321 | 20 | HDR unbiased | 21.006 | 18.949 | -2.0567 |
| 322 | 20 | HDR unbiased | 20.579 | 18.697 | -1.8824 |
| 323 | 20 | HDR unbiased | 19.463 | 18.965 | -0.4982 |
| 324 | 20 | HDR unbiased | 20.376 | 19.666 | -0.7101 |
| 325 | 20 | HDR unbiased | 18.761 | 19.743 | 0.9817 |
| 331 | 30 | HDR unbiased | 19.011 | 19.731 | 0.7198 |
| 332 | 30 | HDR unbiased | 19.291 | 20.067 | 0.7757 |
| 333 | 30 | HDR unbiased | 19.662 | 19.162 | -0.5005 |
| 334 | 30 | HDR unbiased | 20.521 | 19.898 | -0.6233 |
| 335 | 30 | HDR unbiased | 20.671 | 19.899 | -0.772 |
| 351 | 50 | HDR unbiased | 19.11 | 19.48 | 0.3697 |
| 352 | 50 | HDR unbiased | 20.706 | 18.687 | -2.0193 |
| 353 | 50 | HDR unbiased | 20.311 | 19.474 | -0.8375 |
| 354 | 50 | HDR unbiased | 18.706 | 19.898 | 1.1923 |
| 355 | 50 | HDR unbiased | 20.934 | 18.372 | -2.5621 |
| 521 | 20 | HDR biased | 20.349 | 18.525 | -1.8237 |
| 522 | 20 | HDR biased | 20.273 | 19.497 | -0.7757 |
| 523 | 20 | HDR biased | 19.304 | 18.681 | -0.6234 |
| 524 | 20 | HDR biased | 18.573 | 19.216 | 0.6432 |
| 525 | 20 | HDR biased | 20.109 | 18.32 | -1.789 |
| 531 | 30 | HDR biased | 18.917 | 19.794 | 0.8767 |
| 532 | 30 | HDR biased | 19.368 | 18.872 | -0.4951 |
| 533 | 30 | HDR biased | 20.355 | 19.91 | -0.4448 |
| 534 | 30 | HDR biased | 20.254 | 18.778 | -1.4764 |
| 535 | 30 | HDR biased | 20.661 | 18.244 | -2.4162 |
| 551 | 50 | HDR biased | 20.801 | 19.334 | -1.4669 |
| 552 | 50 | HDR biased | 19.49 | 19.679 | 0.1885 |
| 553 | 50 | HDR biased | 20.072 | 18.06 | -2.0118 |
| 554 | 50 | HDR biased | 19.006 | 19.17 | 0.1635 |
| 555 | 50 | HDR biased | 18.717 | 18.455 | -0.2615 |

TID vs Post - Pre Exposure Delta

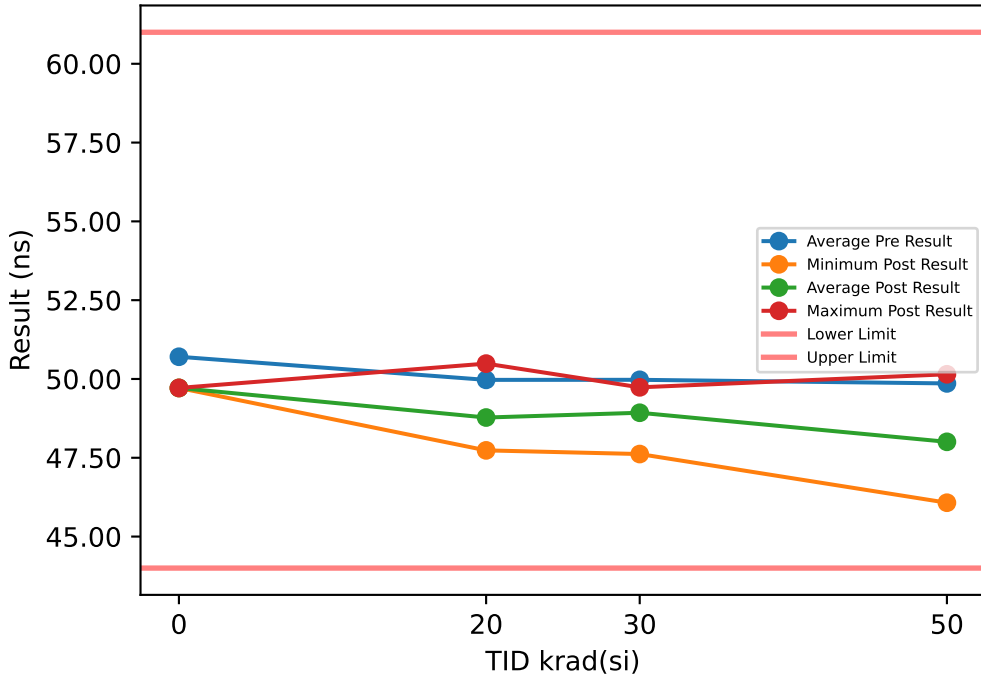


Test Statistics (ns)

| 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 | 19.166 | 19.166 | 19.166 | | 20.142 | 20.142 | 20.142 | | 0.9759 | 0.9759 | 0.9759 | |
| 20 | 18.573 | 19.879 | 21.006 | 0.80937 | 18.32 | 19.026 | 19.743 | 0.49085 | -2.0567 | -0.85343 | 0.9817 | 1.0613 |
| 30 | 18.917 | 19.871 | 20.671 | 0.69518 | 18.244 | 19.435 | 20.067 | 0.62457 | -2.4162 | -0.43561 | 0.8767 | 1.0374 |
| 50 | 18.706 | 19.785 | 20.934 | 0.88285 | 18.06 | 19.061 | 19.898 | 0.62337 | -2.5621 | -0.72451 | 1.1923 | 1.2464 |

Device Test: 97.27 T_RHL_LARGE(_DHL Dead Time Large 1MHz VIN_14V)

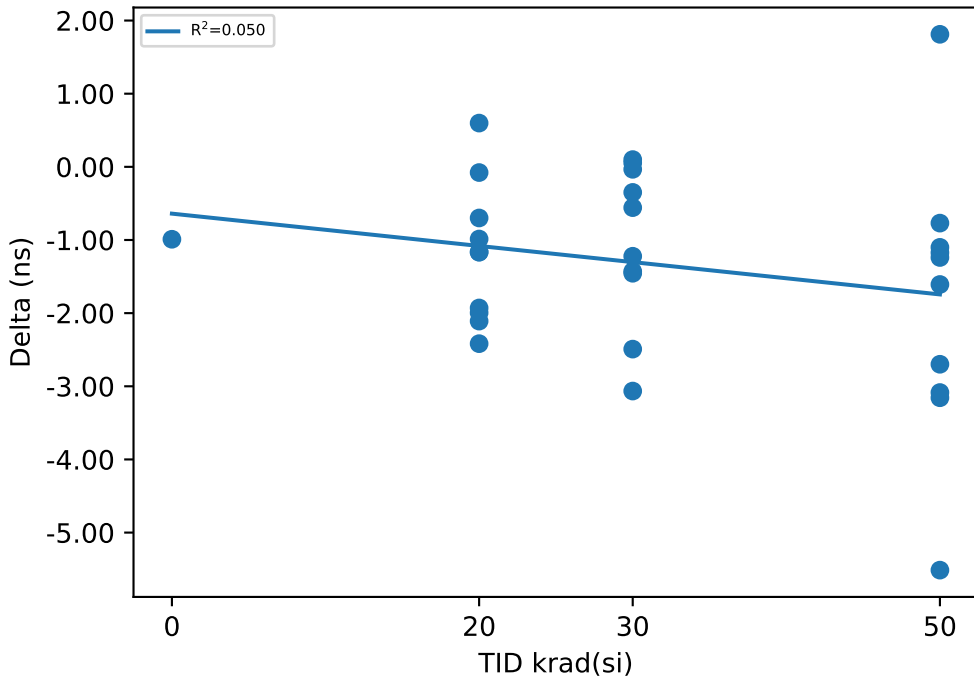
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 50.705 | 49.715 | -0.99 |
| 321 | 20 | HDR unbiased | 51.228 | 49.233 | -1.9951 |
| 322 | 20 | HDR unbiased | 51.018 | 49.089 | -1.9293 |
| 323 | 20 | HDR unbiased | 48.906 | 47.919 | -0.9867 |
| 324 | 20 | HDR unbiased | 51.098 | 49.935 | -1.1637 |
| 325 | 20 | HDR unbiased | 49.889 | 50.488 | 0.5982 |
| 331 | 30 | HDR unbiased | 48.866 | 48.919 | 0.0539 |
| 332 | 30 | HDR unbiased | 49.446 | 49.412 | -0.0338 |
| 333 | 30 | HDR unbiased | 49.944 | 48.721 | -1.2223 |
| 334 | 30 | HDR unbiased | 50.921 | 49.493 | -1.4287 |
| 335 | 30 | HDR unbiased | 51.189 | 49.735 | -1.4548 |
| 351 | 50 | HDR unbiased | 49.801 | 48.562 | -1.239 |
| 352 | 50 | HDR unbiased | 51.592 | 48.507 | -3.0853 |
| 353 | 50 | HDR unbiased | 50.491 | 48.883 | -1.6083 |
| 354 | 50 | HDR unbiased | 48.337 | 50.148 | 1.8118 |
| 355 | 50 | HDR unbiased | 52.359 | 46.846 | -5.5133 |
| 521 | 20 | HDR biased | 50.152 | 47.734 | -2.4173 |
| 522 | 20 | HDR biased | 49.08 | 47.913 | -1.167 |
| 523 | 20 | HDR biased | 48.85 | 48.151 | -0.699 |
| 524 | 20 | HDR biased | 49.1 | 49.022 | -0.078 |
| 525 | 20 | HDR biased | 50.392 | 48.283 | -2.1088 |
| 531 | 30 | HDR biased | 48.96 | 49.059 | 0.0991 |
| 532 | 30 | HDR biased | 49.612 | 49.054 | -0.5577 |
| 533 | 30 | HDR biased | 49.821 | 49.472 | -0.3494 |
| 534 | 30 | HDR biased | 50.291 | 47.799 | -2.4918 |
| 535 | 30 | HDR biased | 50.683 | 47.618 | -3.0651 |
| 551 | 50 | HDR biased | 49.821 | 47.122 | -2.6989 |
| 552 | 50 | HDR biased | 48.646 | 47.876 | -0.7693 |
| 553 | 50 | HDR biased | 49.23 | 46.074 | -3.1565 |
| 554 | 50 | HDR biased | 49.324 | 48.15 | -1.1739 |
| 555 | 50 | HDR biased | 48.991 | 47.891 | -1.1006 |

TID vs Post - Pre Exposure Delta

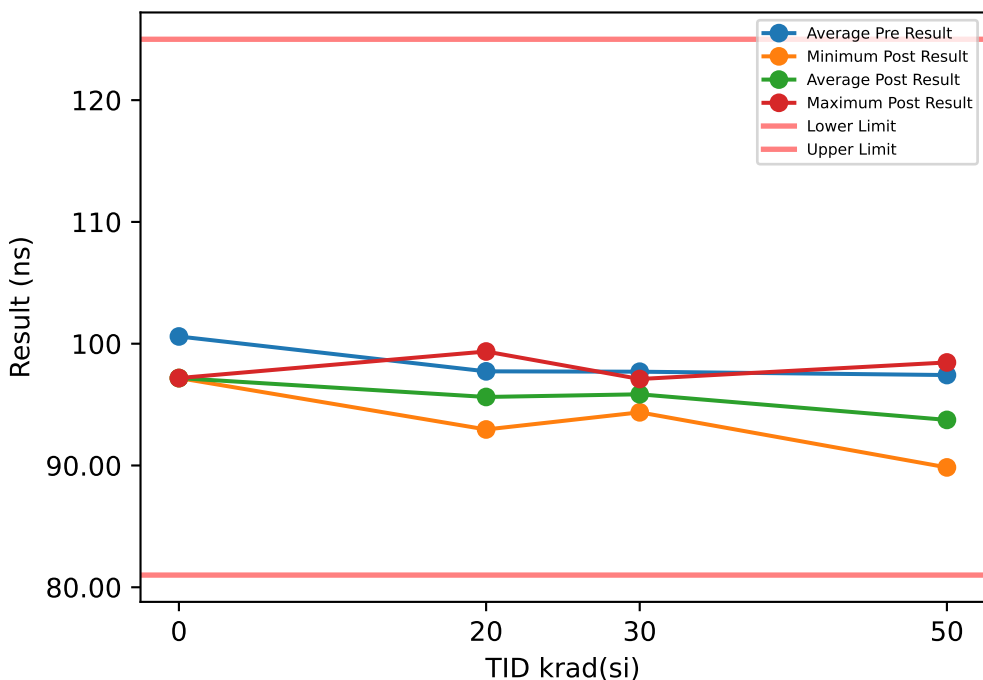


Test Statistics (ns)

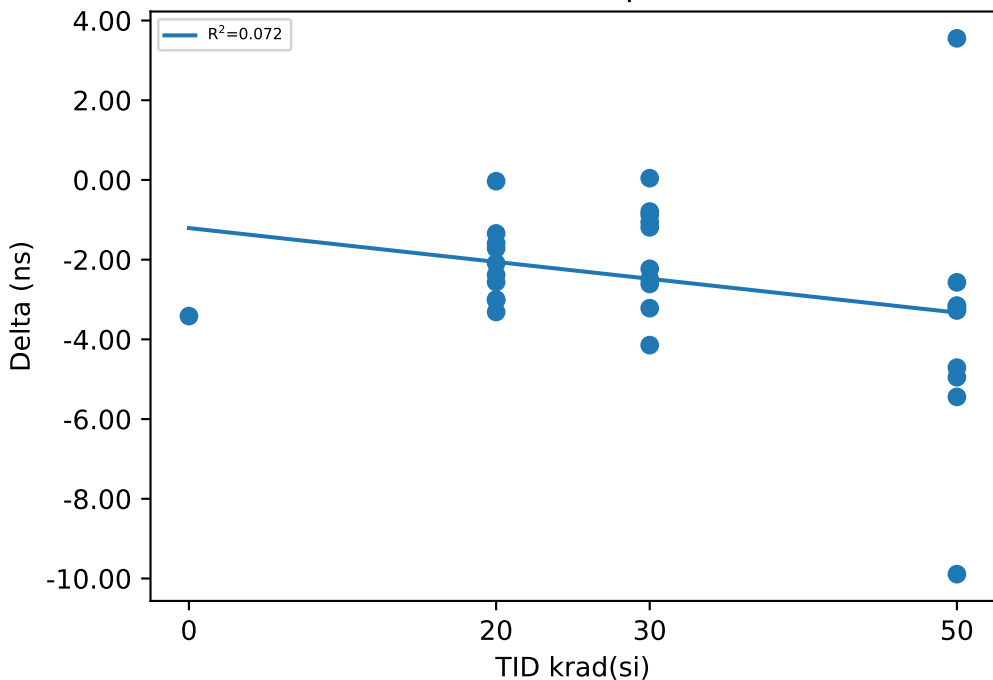
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 50.705 | 50.705 | 50.705 | | 49.715 | 49.715 | 49.715 | | -0.99 | -0.99 | -0.99 | |
| 20 | 48.85 | 49.971 | 51.228 | 0.94906 | 47.734 | 48.777 | 50.488 | 0.93307 | -2.4173 | -1.1947 | 0.5982 | 0.95817 |
| 30 | 48.866 | 49.973 | 51.189 | 0.79376 | 47.618 | 48.928 | 49.735 | 0.71212 | -3.0651 | -1.0451 | 0.0991 | 1.0945 |
| 50 | 48.337 | 49.859 | 52.359 | 1.286 | 46.074 | 48.006 | 50.148 | 1.1464 | -5.5133 | -1.8533 | 1.8118 | 1.9264 |

Device Test: 97.28 T_RHL_MAX(_DHL Dead Time Max 1MHz VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

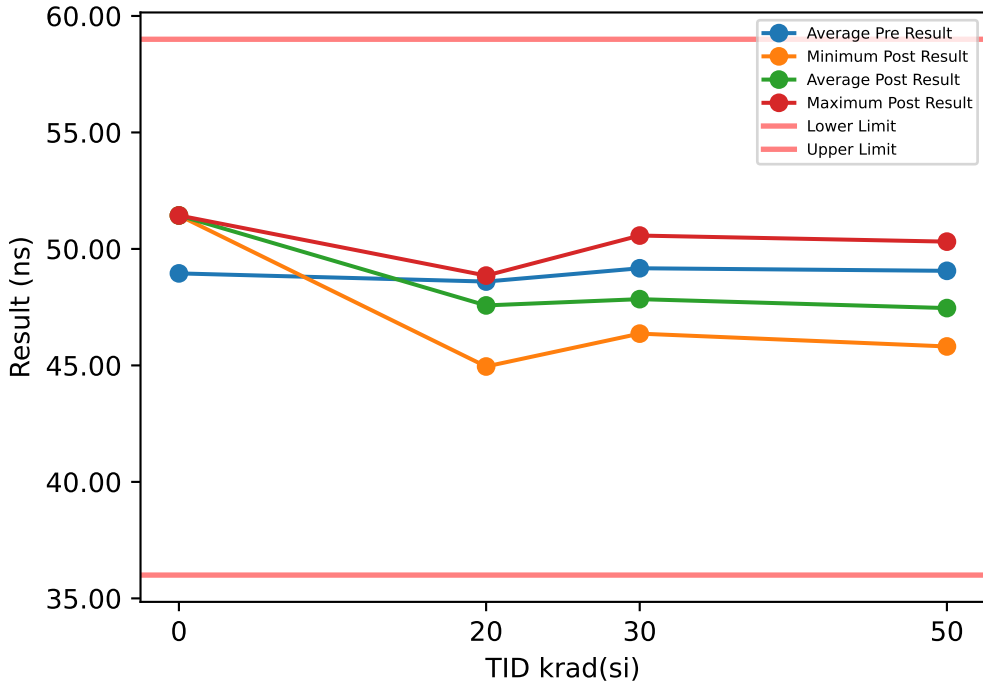
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 100.59 | 97.179 | -3.4161 |
| 321 | 20 | HDR unbiased | 98.774 | 95.776 | -2.9982 |
| 322 | 20 | HDR unbiased | 99.935 | 96.622 | -3.313 |
| 323 | 20 | HDR unbiased | 95.542 | 93.826 | -1.7163 |
| 324 | 20 | HDR unbiased | 99.437 | 97.848 | -1.5889 |
| 325 | 20 | HDR unbiased | 99.391 | 99.36 | -0.0314 |
| 331 | 30 | HDR unbiased | 96.167 | 94.977 | -1.1895 |
| 332 | 30 | HDR unbiased | 97.227 | 96.172 | -1.0551 |
| 333 | 30 | HDR unbiased | 98.056 | 95.825 | -2.2303 |
| 334 | 30 | HDR unbiased | 98.765 | 96.28 | -2.4856 |
| 335 | 30 | HDR unbiased | 99.391 | 96.782 | -2.6094 |
| 351 | 50 | HDR unbiased | 98.01 | 94.77 | -3.24 |
| 352 | 50 | HDR unbiased | 100.94 | 96.235 | -4.7097 |
| 353 | 50 | HDR unbiased | 98.6 | 95.324 | -3.2756 |
| 354 | 50 | HDR unbiased | 94.908 | 98.461 | 3.5536 |
| 355 | 50 | HDR unbiased | 102.07 | 92.182 | -9.8906 |
| 521 | 20 | HDR biased | 97.134 | 94.117 | -3.0171 |
| 522 | 20 | HDR biased | 95.34 | 92.957 | -2.3836 |
| 523 | 20 | HDR biased | 95.751 | 93.661 | -2.09 |
| 524 | 20 | HDR biased | 97.434 | 96.091 | -1.3422 |
| 525 | 20 | HDR biased | 98.569 | 96.006 | -2.5627 |
| 531 | 30 | HDR biased | 96.489 | 95.613 | -0.8756 |
| 532 | 30 | HDR biased | 97.894 | 97.101 | -0.7929 |
| 533 | 30 | HDR biased | 96.93 | 96.975 | 0.044 |
| 534 | 30 | HDR biased | 97.582 | 94.365 | -3.2178 |
| 535 | 30 | HDR biased | 98.511 | 94.367 | -4.1443 |
| 551 | 50 | HDR biased | 95.78 | 90.83 | -4.9501 |
| 552 | 50 | HDR biased | 94.986 | 92.416 | -2.569 |
| 553 | 50 | HDR biased | 95.285 | 89.842 | -5.4432 |
| 554 | 50 | HDR biased | 96.934 | 93.772 | -3.1617 |
| 555 | 50 | HDR biased | 96.746 | 93.592 | -3.1543 |

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 | 100.59 | 100.59 | 100.59 | | 97.179 | 97.179 | 97.179 | | -3.4161 | -3.4161 | -3.4161 | |
| 20 | 95.34 | 97.731 | 99.935 | 1.7381 | 92.957 | 95.626 | 99.36 | 2.0211 | -3.313 | -2.1043 | -0.0314 | 0.9818 |
| 30 | 96.167 | 97.701 | 99.391 | 1.0256 | 94.365 | 95.846 | 97.101 | 1.0116 | -4.1443 | -1.8556 | 0.044 | 1.2902 |
| 50 | 94.908 | 97.427 | 102.07 | 2.4942 | 89.842 | 93.743 | 98.461 | 2.5809 | -9.8906 | -3.6841 | 3.5536 | 3.3135 |

Device Test: 97.3 T_RLH_LARGE(_DLHDead Time Large 500kHz VIN_14V)

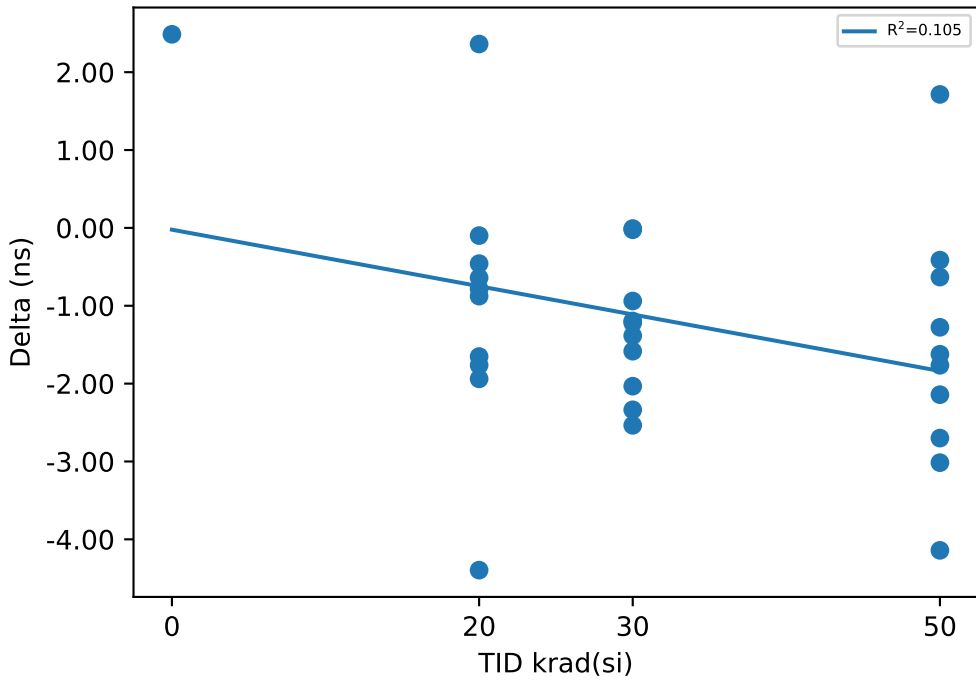
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 48.95 | 51.437 | 2.4864 |
| 321 | 20 | HDR unbiased | 48.93 | 47.278 | -1.6523 |
| 322 | 20 | HDR unbiased | 48.905 | 47.142 | -1.7631 |
| 323 | 20 | HDR unbiased | 49.077 | 48.436 | -0.6408 |
| 324 | 20 | HDR unbiased | 49.104 | 48.227 | -0.8766 |
| 325 | 20 | HDR unbiased | 47.547 | 47.448 | -0.0988 |
| 331 | 30 | HDR unbiased | 47.904 | 47.896 | -0.008 |
| 332 | 30 | HDR unbiased | 50.598 | 50.574 | -0.0237 |
| 333 | 30 | HDR unbiased | 47.948 | 46.364 | -1.5837 |
| 334 | 30 | HDR unbiased | 48.683 | 47.464 | -1.219 |
| 335 | 30 | HDR unbiased | 49.126 | 47.93 | -1.1958 |
| 351 | 50 | HDR unbiased | 47.373 | 49.087 | 1.7143 |
| 352 | 50 | HDR unbiased | 49.434 | 46.734 | -2.6996 |
| 353 | 50 | HDR unbiased | 50.82 | 46.678 | -4.1415 |
| 354 | 50 | HDR unbiased | 48.218 | 46.595 | -1.6229 |
| 355 | 50 | HDR unbiased | 48.489 | 46.346 | -2.142 |
| 521 | 20 | HDR biased | 48.827 | 46.888 | -1.9388 |
| 522 | 20 | HDR biased | 49.638 | 48.855 | -0.7824 |
| 523 | 20 | HDR biased | 48.271 | 47.812 | -0.4588 |
| 524 | 20 | HDR biased | 46.35 | 48.712 | 2.3617 |
| 525 | 20 | HDR biased | 49.349 | 44.953 | -4.3956 |
| 531 | 30 | HDR biased | 48.821 | 47.881 | -0.9392 |
| 532 | 30 | HDR biased | 48.618 | 46.586 | -2.0328 |
| 533 | 30 | HDR biased | 51.049 | 48.514 | -2.5355 |
| 534 | 30 | HDR biased | 49.862 | 47.525 | -2.3364 |
| 535 | 30 | HDR biased | 49.094 | 47.711 | -1.384 |
| 551 | 50 | HDR biased | 48.924 | 47.648 | -1.2766 |
| 552 | 50 | HDR biased | 50.727 | 50.313 | -0.414 |
| 553 | 50 | HDR biased | 48.829 | 45.814 | -3.0151 |
| 554 | 50 | HDR biased | 48.308 | 47.676 | -0.6315 |
| 555 | 50 | HDR biased | 49.481 | 47.716 | -1.7647 |

TID vs Post - Pre Exposure Delta

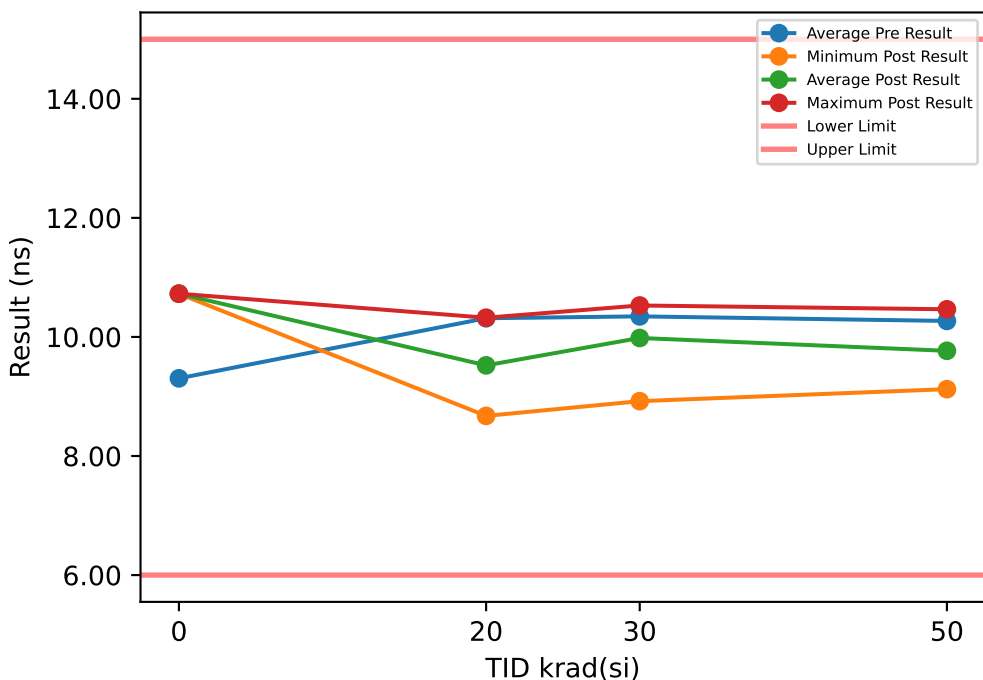


Test Statistics (ns)

| 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 | 48.95 | 48.95 | 48.95 | | 51.437 | 51.437 | 51.437 | | 2.4864 | 2.4864 | 2.4864 | |
| 20 | 46.35 | 48.6 | 49.638 | 0.98058 | 44.953 | 47.575 | 48.855 | 1.1446 | -4.3956 | -1.0246 | 2.3617 | 1.7 |
| 30 | 47.904 | 49.17 | 51.049 | 1.0444 | 46.364 | 47.844 | 50.574 | 1.1524 | -2.5355 | -1.3258 | -0.008 | 0.86051 |
| 50 | 47.373 | 49.06 | 50.82 | 1.091 | 45.814 | 47.461 | 50.313 | 1.3652 | -4.1415 | -1.5994 | 1.7143 | 1.6133 |

Device Test: 97.30 T_RHL_SMALL(_DHL Dead Time Small 2MHz VIN_14V)

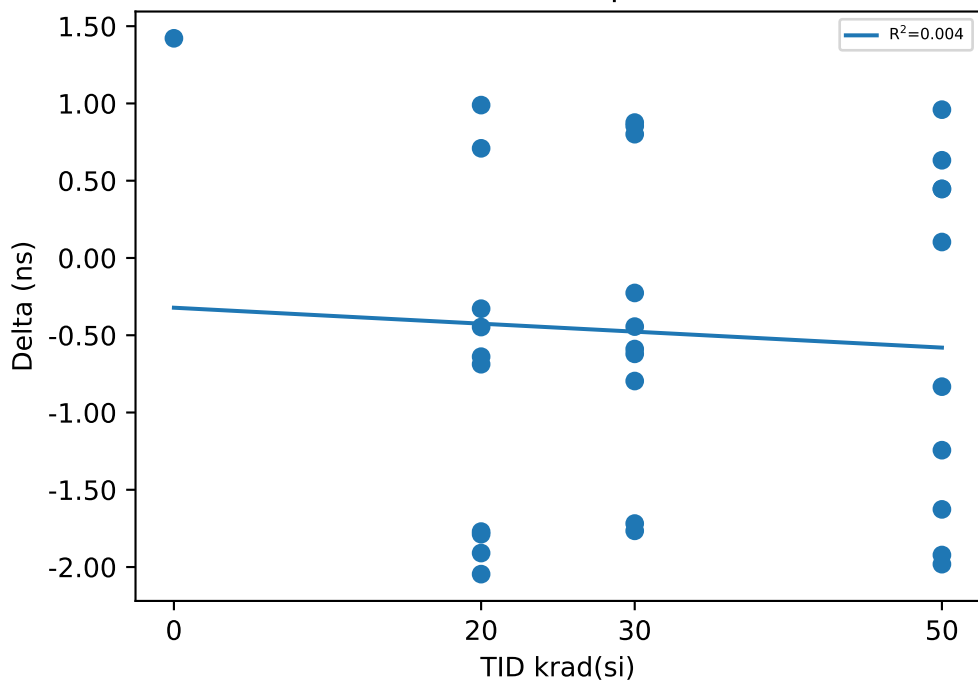
TID vs Result Stats



Test Results (Lower Limit = 6.0, Upper Limit = 15.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 9.3048 | 10.726 | 1.4215 |
| 321 | 20 | HDR unbiased | 11.276 | 9.2297 | -2.0459 |
| 322 | 20 | HDR unbiased | 10.87 | 9.0823 | -1.7874 |
| 323 | 20 | HDR unbiased | 10.057 | 9.61 | -0.447 |
| 324 | 20 | HDR unbiased | 10.594 | 9.9552 | -0.6387 |
| 325 | 20 | HDR unbiased | 8.9794 | 9.9687 | 0.9893 |
| 331 | 30 | HDR unbiased | 9.4713 | 10.325 | 0.854 |
| 332 | 30 | HDR unbiased | 9.7274 | 10.528 | 0.801 |
| 333 | 30 | HDR unbiased | 9.8424 | 9.6161 | -0.2263 |
| 334 | 30 | HDR unbiased | 11.296 | 10.499 | -0.7963 |
| 335 | 30 | HDR unbiased | 10.951 | 10.331 | -0.6204 |
| 351 | 50 | HDR unbiased | 9.4475 | 10.08 | 0.6323 |
| 352 | 50 | HDR unbiased | 11.199 | 9.2764 | -1.9222 |
| 353 | 50 | HDR unbiased | 10.813 | 9.9801 | -0.8327 |
| 354 | 50 | HDR unbiased | 9.2735 | 10.233 | 0.9598 |
| 355 | 50 | HDR unbiased | 11.123 | 9.1419 | -1.9814 |
| 521 | 20 | HDR biased | 10.941 | 9.1708 | -1.7705 |
| 522 | 20 | HDR biased | 11.011 | 10.323 | -0.6876 |
| 523 | 20 | HDR biased | 9.7654 | 9.4373 | -0.3281 |
| 524 | 20 | HDR biased | 9.0664 | 9.776 | 0.7096 |
| 525 | 20 | HDR biased | 10.584 | 8.674 | -1.9095 |
| 531 | 30 | HDR biased | 9.4912 | 10.367 | 0.8763 |
| 532 | 30 | HDR biased | 9.7686 | 9.3245 | -0.4441 |
| 533 | 30 | HDR biased | 11.054 | 10.465 | -0.5893 |
| 534 | 30 | HDR biased | 10.64 | 8.9213 | -1.7185 |
| 535 | 30 | HDR biased | 11.214 | 9.4482 | -1.7657 |
| 551 | 50 | HDR biased | 11.477 | 10.233 | -1.2438 |
| 552 | 50 | HDR biased | 10.019 | 10.465 | 0.446 |
| 553 | 50 | HDR biased | 10.75 | 9.1231 | -1.6269 |
| 554 | 50 | HDR biased | 9.319 | 9.7665 | 0.4475 |
| 555 | 50 | HDR biased | 9.268 | 9.3713 | 0.1033 |

TID vs Post - Pre Exposure Delta

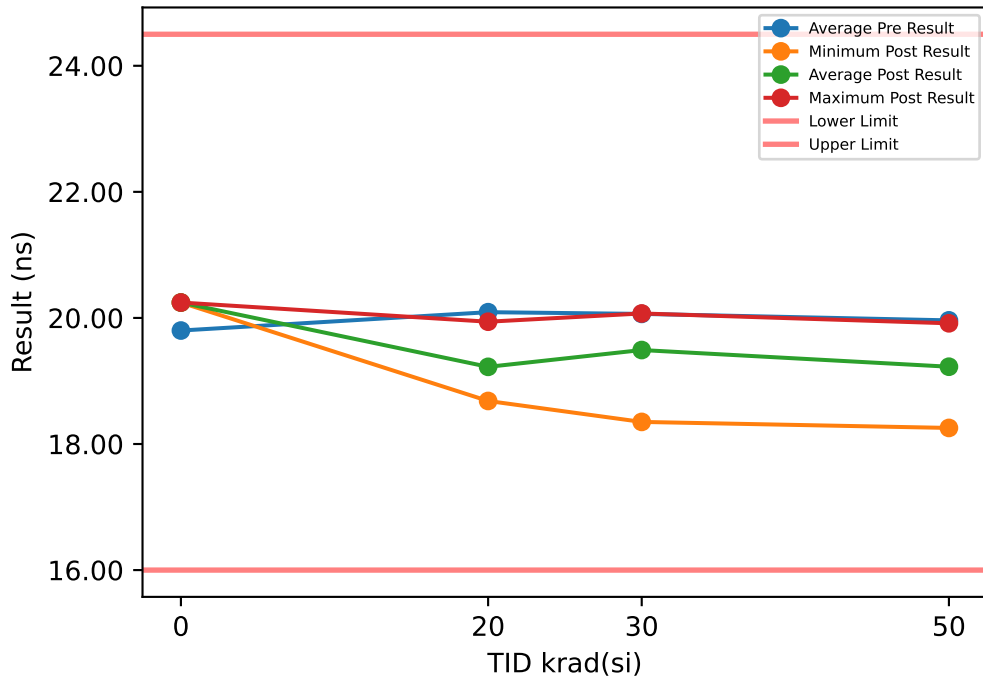


Test Statistics (ns)

| 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 | 9.3048 | 9.3048 | 9.3048 | | 10.726 | 10.726 | 10.726 | | 1.4215 | 1.4215 | 1.4215 | |
| 20 | 8.9794 | 10.314 | 11.276 | 0.8143 | 8.674 | 9.5227 | 10.323 | 0.49769 | -2.0459 | -0.79158 | 0.9893 | 1.0835 |
| 30 | 9.4713 | 10.346 | 11.296 | 0.75093 | 8.9213 | 9.9827 | 10.528 | 0.59292 | -1.7657 | -0.36293 | 0.8763 | 0.97224 |
| 50 | 9.268 | 10.269 | 11.477 | 0.89524 | 9.1231 | 9.767 | 10.465 | 0.50192 | -1.9814 | -0.50181 | 0.9598 | 1.1412 |

Device Test: 97.31 T_RHL_MID(_DHL Dead Time Mid 2MHz VIN_14V)

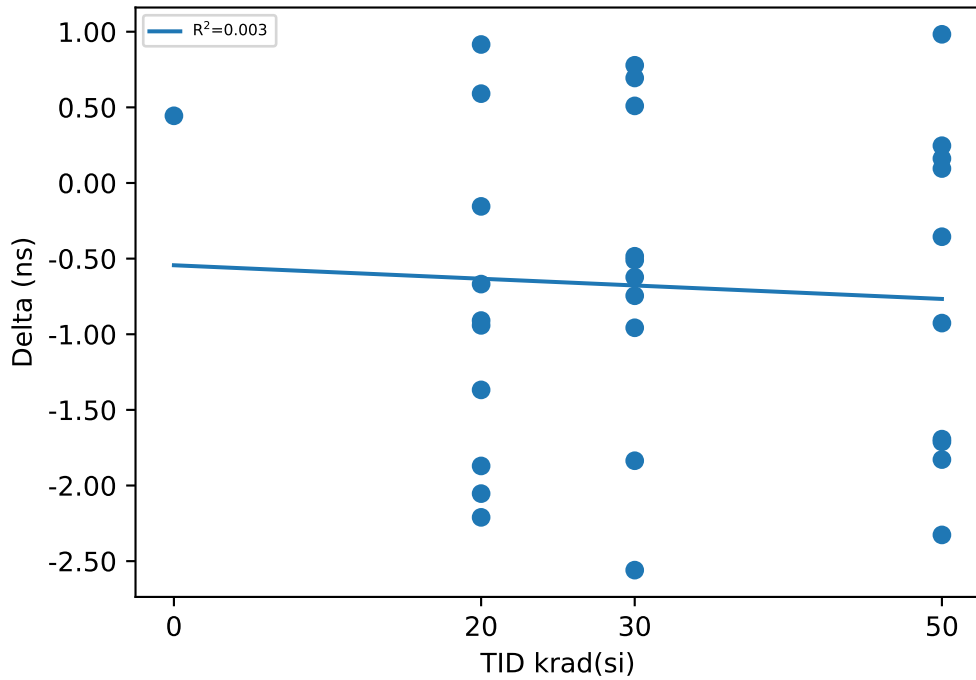
TID vs Result Stats



Test Results (Lower Limit = 16.0, Upper Limit = 24.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.8 | 20.244 | 0.4441 |
| 321 | 20 | HDR unbiased | 21.168 | 18.957 | -2.2105 |
| 322 | 20 | HDR unbiased | 20.871 | 18.817 | -2.0535 |
| 323 | 20 | HDR unbiased | 19.604 | 19.449 | -0.1547 |
| 324 | 20 | HDR unbiased | 20.658 | 19.717 | -0.9413 |
| 325 | 20 | HDR unbiased | 19.024 | 19.94 | 0.9156 |
| 331 | 30 | HDR unbiased | 19.161 | 19.855 | 0.6942 |
| 332 | 30 | HDR unbiased | 19.543 | 20.053 | 0.5097 |
| 333 | 30 | HDR unbiased | 19.721 | 19.21 | -0.5102 |
| 334 | 30 | HDR unbiased | 21.028 | 20.071 | -0.9572 |
| 335 | 30 | HDR unbiased | 20.7 | 19.955 | -0.7455 |
| 351 | 50 | HDR unbiased | 19.267 | 19.513 | 0.2465 |
| 352 | 50 | HDR unbiased | 21.043 | 19.332 | -1.7112 |
| 353 | 50 | HDR unbiased | 20.517 | 19.591 | -0.9262 |
| 354 | 50 | HDR unbiased | 18.932 | 19.915 | 0.9829 |
| 355 | 50 | HDR unbiased | 21.166 | 18.84 | -2.3266 |
| 521 | 20 | HDR biased | 20.553 | 18.683 | -1.8706 |
| 522 | 20 | HDR biased | 20.495 | 19.585 | -0.9094 |
| 523 | 20 | HDR biased | 19.506 | 18.838 | -0.6684 |
| 524 | 20 | HDR biased | 18.802 | 19.393 | 0.5906 |
| 525 | 20 | HDR biased | 20.229 | 18.862 | -1.3678 |
| 531 | 30 | HDR biased | 19.101 | 19.879 | 0.7781 |
| 532 | 30 | HDR biased | 19.526 | 18.903 | -0.6227 |
| 533 | 30 | HDR biased | 20.493 | 20.009 | -0.4844 |
| 534 | 30 | HDR biased | 20.457 | 18.621 | -1.8361 |
| 535 | 30 | HDR biased | 20.91 | 18.351 | -2.5594 |
| 551 | 50 | HDR biased | 21.057 | 19.364 | -1.6934 |
| 552 | 50 | HDR biased | 19.589 | 19.684 | 0.0955 |
| 553 | 50 | HDR biased | 20.084 | 18.255 | -1.8285 |
| 554 | 50 | HDR biased | 19.079 | 19.24 | 0.1616 |
| 555 | 50 | HDR biased | 18.883 | 18.528 | -0.3552 |

TID vs Post - Pre Exposure Delta

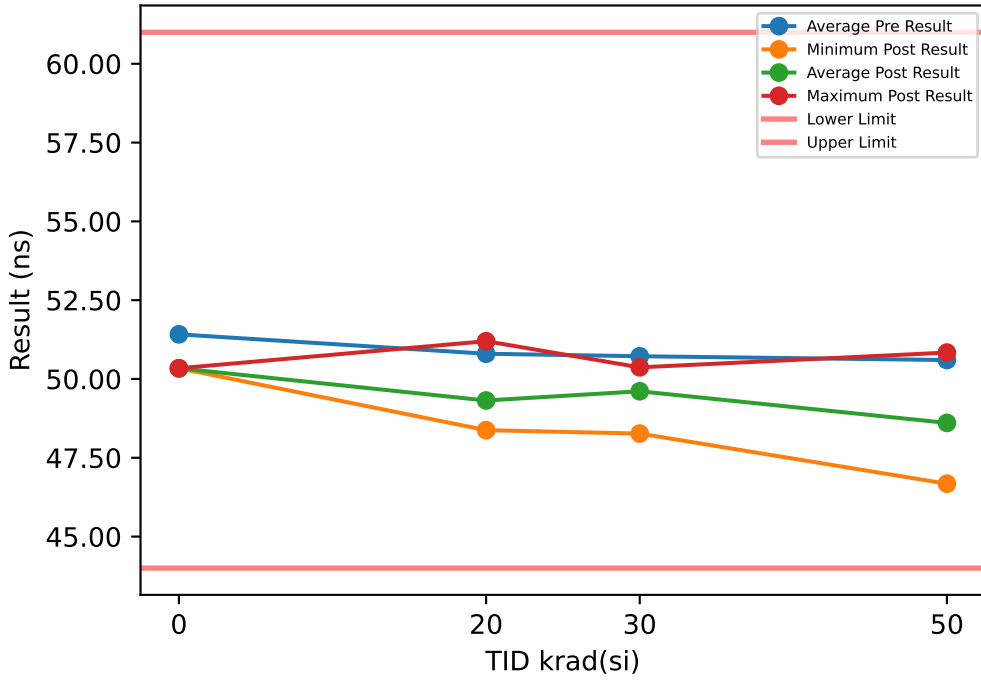


Test Statistics (ns)

| 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 | 19.8 | 19.8 | 19.8 | | 20.244 | 20.244 | 20.244 | | 0.4441 | 0.4441 | 0.4441 | |
| 20 | 18.802 | 20.091 | 21.168 | 0.80711 | 18.683 | 19.224 | 19.94 | 0.44415 | -2.2105 | -0.867 | 0.9156 | 1.0712 |
| 30 | 19.101 | 20.064 | 21.028 | 0.73104 | 18.351 | 19.491 | 20.071 | 0.65837 | -2.5594 | -0.57335 | 0.7781 | 1.0717 |
| 50 | 18.883 | 19.962 | 21.166 | 0.92918 | 18.255 | 19.226 | 19.915 | 0.52812 | -2.3266 | -0.73546 | 0.9829 | 1.115 |

Device Test: 97.32 T_RHL_LARGE(_DHL Dead Time Large 2MHz VIN_14V)

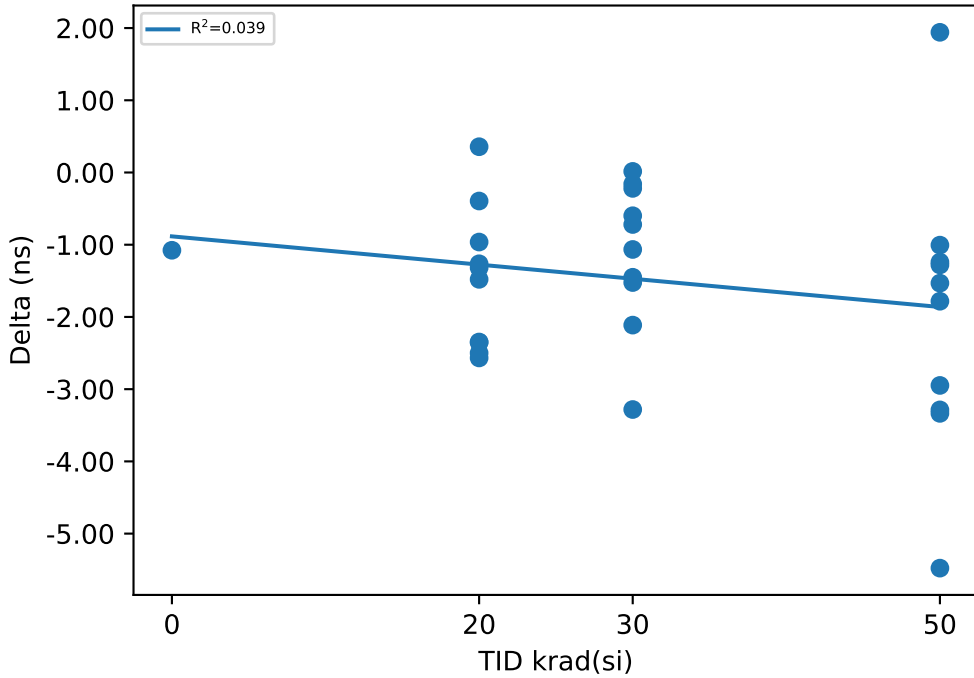
TID vs Result Stats



Test Results (Lower Limit = 44.0, Upper Limit = 61.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 51.416 | 50.339 | -1.0768 |
| 321 | 20 | HDR unbiased | 52.01 | 49.442 | -2.5675 |
| 322 | 20 | HDR unbiased | 52.046 | 49.547 | -2.4993 |
| 323 | 20 | HDR unbiased | 49.544 | 48.581 | -0.9629 |
| 324 | 20 | HDR unbiased | 51.9 | 50.581 | -1.3187 |
| 325 | 20 | HDR unbiased | 50.842 | 51.199 | 0.3569 |
| 331 | 30 | HDR unbiased | 49.689 | 49.469 | -0.22 |
| 332 | 30 | HDR unbiased | 50.161 | 50.002 | -0.1593 |
| 333 | 30 | HDR unbiased | 50.48 | 49.414 | -1.0657 |
| 334 | 30 | HDR unbiased | 51.571 | 50.047 | -1.5236 |
| 335 | 30 | HDR unbiased | 51.819 | 50.369 | -1.4506 |
| 351 | 50 | HDR unbiased | 50.44 | 49.199 | -1.2405 |
| 352 | 50 | HDR unbiased | 52.584 | 49.249 | -3.3351 |
| 353 | 50 | HDR unbiased | 51.327 | 49.544 | -1.7826 |
| 354 | 50 | HDR unbiased | 48.896 | 50.837 | 1.941 |
| 355 | 50 | HDR unbiased | 53.001 | 47.523 | -5.478 |
| 521 | 20 | HDR biased | 50.797 | 48.445 | -2.3526 |
| 522 | 20 | HDR biased | 49.961 | 48.482 | -1.4794 |
| 523 | 20 | HDR biased | 49.64 | 48.376 | -1.2639 |
| 524 | 20 | HDR biased | 49.96 | 49.565 | -0.3948 |
| 525 | 20 | HDR biased | 51.304 | 48.956 | -2.3473 |
| 531 | 30 | HDR biased | 49.678 | 49.693 | 0.0153 |
| 532 | 30 | HDR biased | 50.476 | 49.756 | -0.7199 |
| 533 | 30 | HDR biased | 50.713 | 50.114 | -0.5988 |
| 534 | 30 | HDR biased | 51.079 | 48.966 | -2.1131 |
| 535 | 30 | HDR biased | 51.55 | 48.268 | -3.2818 |
| 551 | 50 | HDR biased | 50.561 | 47.613 | -2.9482 |
| 552 | 50 | HDR biased | 49.356 | 48.35 | -1.0058 |
| 553 | 50 | HDR biased | 49.964 | 46.677 | -3.287 |
| 554 | 50 | HDR biased | 50.107 | 48.827 | -1.2799 |
| 555 | 50 | HDR biased | 49.773 | 48.241 | -1.5321 |

TID vs Post - Pre Exposure Delta

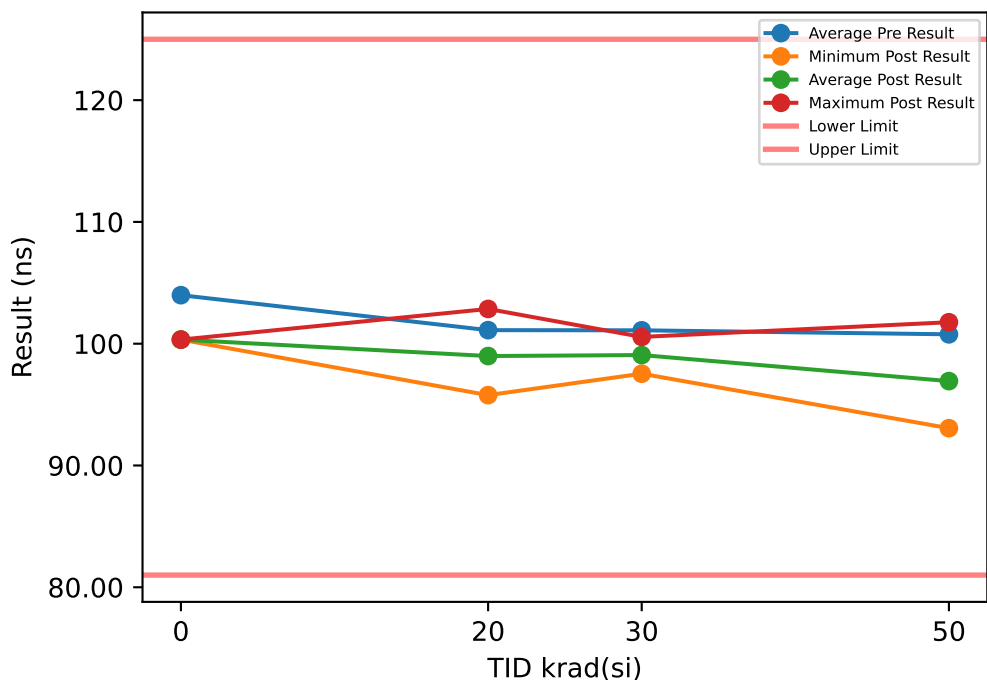


Test Statistics (ns)

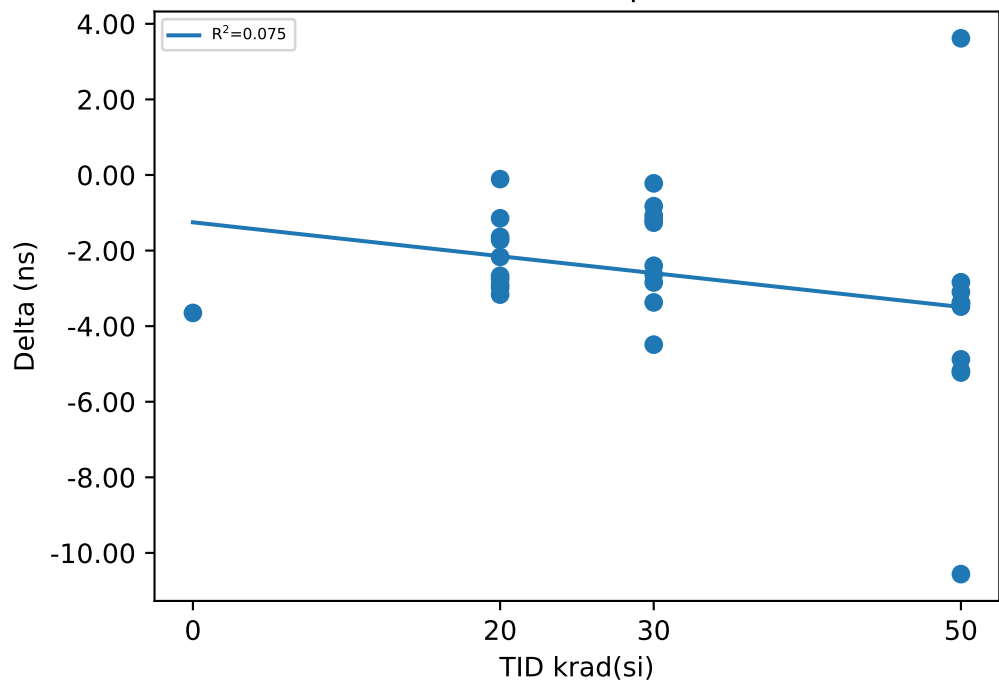
| krad(si) | Pre Exposure Min | Pre Exposure Avg | Pre Exposure Max | Pre Exposure Std | Post Exposure Min | Post Exposure Avg | Post Exposure Max | Post Exposure Std | Min Delta | Avg Delta | Max Delta | Std Delta |
|----------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|-----------|
| 0 | 51.416 | 51.416 | 51.416 | | 50.339 | 50.339 | 50.339 | | -1.0768 | -1.0768 | -1.0768 | |
| 20 | 49.544 | 50.8 | 52.046 | 0.98967 | 48.376 | 49.317 | 51.199 | 0.95944 | -2.5675 | -1.4829 | 0.3569 | 0.97907 |
| 30 | 49.678 | 50.722 | 51.819 | 0.7694 | 48.268 | 49.61 | 50.369 | 0.62165 | -3.2818 | -1.1118 | 0.0153 | 1.0213 |
| 50 | 48.896 | 50.601 | 53.001 | 1.3348 | 46.677 | 48.606 | 50.837 | 1.1904 | -5.478 | -1.9948 | 1.941 | 1.9527 |

Device Test: 97.33 T_RHL_MAX(_DHL Dead Time Max 2MHz VIN_14V)

TID vs Result Stats



TID vs Post - Pre Exposure Delta



Test Results (Lower Limit = 81.0, Upper Limit = 125.0 (ns))

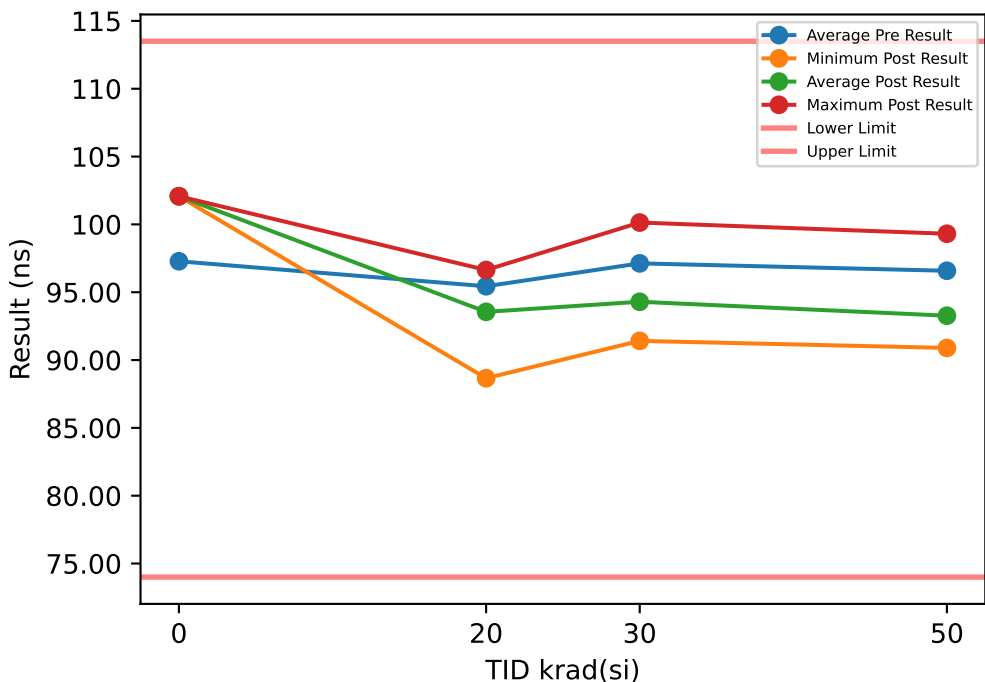
| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 103.99 | 100.34 | -3.6498 |
| 321 | 20 | HDR unbiased | 102.24 | 99.486 | -2.7549 |
| 322 | 20 | HDR unbiased | 103.68 | 100.51 | -3.1653 |
| 323 | 20 | HDR unbiased | 98.62 | 97.475 | -1.1456 |
| 324 | 20 | HDR unbiased | 102.93 | 101.21 | -1.721 |
| 325 | 20 | HDR unbiased | 102.96 | 102.85 | -0.1094 |
| 331 | 30 | HDR unbiased | 99.474 | 98.212 | -1.2622 |
| 332 | 30 | HDR unbiased | 100.6 | 99.406 | -1.1929 |
| 333 | 30 | HDR unbiased | 101.48 | 99.081 | -2.4017 |
| 334 | 30 | HDR unbiased | 102.11 | 99.474 | -2.6372 |
| 335 | 30 | HDR unbiased | 102.81 | 99.969 | -2.8453 |
| 351 | 50 | HDR unbiased | 101.37 | 97.997 | -3.3772 |
| 352 | 50 | HDR unbiased | 104.66 | 99.785 | -4.8783 |
| 353 | 50 | HDR unbiased | 101.92 | 98.521 | -3.3996 |
| 354 | 50 | HDR unbiased | 98.147 | 101.76 | 3.6164 |
| 355 | 50 | HDR unbiased | 105.81 | 95.25 | -10.562 |
| 521 | 20 | HDR biased | 100.62 | 97.717 | -2.9035 |
| 522 | 20 | HDR biased | 98.445 | 95.777 | -2.6686 |
| 523 | 20 | HDR biased | 99.069 | 96.901 | -2.1687 |
| 524 | 20 | HDR biased | 100.69 | 99.056 | -1.6364 |
| 525 | 20 | HDR biased | 101.87 | 98.877 | -2.988 |
| 531 | 30 | HDR biased | 99.832 | 98.762 | -1.0695 |
| 532 | 30 | HDR biased | 101.38 | 100.56 | -0.8251 |
| 533 | 30 | HDR biased | 100.36 | 100.14 | -0.2216 |
| 534 | 30 | HDR biased | 100.91 | 97.536 | -3.3721 |
| 535 | 30 | HDR biased | 102.04 | 97.55 | -4.4888 |
| 551 | 50 | HDR biased | 98.881 | 93.654 | -5.2272 |
| 552 | 50 | HDR biased | 98.302 | 95.208 | -3.0943 |
| 553 | 50 | HDR biased | 98.242 | 93.063 | -5.1793 |
| 554 | 50 | HDR biased | 100.29 | 96.805 | -3.483 |
| 555 | 50 | HDR biased | 100.08 | 97.246 | -2.838 |

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 | 103.99 | 103.99 | 103.99 | | 100.34 | 100.34 | 100.34 | | -3.6498 | -3.6498 | -3.6498 | |
| 20 | 98.445 | 101.11 | 103.68 | 1.9175 | 95.777 | 98.987 | 102.85 | 2.1362 | -3.1653 | -2.1261 | -0.1094 | 0.97474 |
| 30 | 99.474 | 101.1 | 102.81 | 1.0624 | 97.536 | 99.069 | 100.56 | 1.0504 | -4.4888 | -2.0316 | -0.2216 | 1.3314 |
| 50 | 98.147 | 100.77 | 105.81 | 2.7058 | 93.063 | 96.929 | 101.76 | 2.7237 | -10.562 | -3.8422 | 3.6164 | 3.4588 |

Device Test: 97.4 T_RLH_MAX(_DLH Dead Time Max 500kHz VIN_14V)

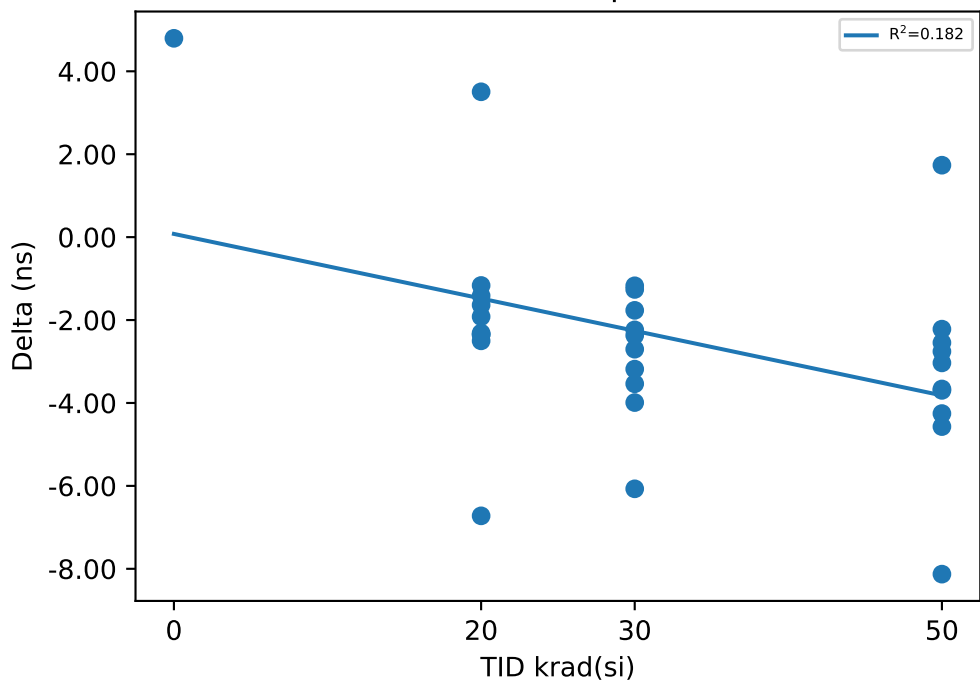
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 97.281 | 102.08 | 4.7956 |
| 321 | 20 | HDR unbiased | 94.3 | 91.949 | -2.3516 |
| 322 | 20 | HDR unbiased | 96.336 | 94.022 | -2.3144 |
| 323 | 20 | HDR unbiased | 98.883 | 96.532 | -2.3513 |
| 324 | 20 | HDR unbiased | 96.11 | 94.472 | -1.6376 |
| 325 | 20 | HDR unbiased | 94.657 | 93.491 | -1.1658 |
| 331 | 30 | HDR unbiased | 94.474 | 93.213 | -1.2615 |
| 332 | 30 | HDR unbiased | 101.9 | 100.14 | -1.766 |
| 333 | 30 | HDR unbiased | 94.116 | 91.413 | -2.7033 |
| 334 | 30 | HDR unbiased | 95.34 | 93.103 | -2.2368 |
| 335 | 30 | HDR unbiased | 97.451 | 95.081 | -2.3699 |
| 351 | 50 | HDR unbiased | 93.496 | 95.231 | 1.735 |
| 352 | 50 | HDR unbiased | 96.231 | 91.976 | -4.2554 |
| 353 | 50 | HDR unbiased | 99.021 | 90.892 | -8.1286 |
| 354 | 50 | HDR unbiased | 95.094 | 91.397 | -3.6961 |
| 355 | 50 | HDR unbiased | 95.43 | 91.767 | -3.6626 |
| 521 | 20 | HDR biased | 95.152 | 92.65 | -2.5015 |
| 522 | 20 | HDR biased | 98.054 | 96.639 | -1.4144 |
| 523 | 20 | HDR biased | 94.903 | 92.985 | -1.9174 |
| 524 | 20 | HDR biased | 90.621 | 94.127 | 3.5056 |
| 525 | 20 | HDR biased | 95.382 | 88.66 | -6.7226 |
| 531 | 30 | HDR biased | 97.674 | 93.684 | -3.9901 |
| 532 | 30 | HDR biased | 95.914 | 92.377 | -3.5372 |
| 533 | 30 | HDR biased | 100.67 | 94.597 | -6.0707 |
| 534 | 30 | HDR biased | 97.565 | 94.382 | -3.1836 |
| 535 | 30 | HDR biased | 96.156 | 94.982 | -1.1737 |
| 551 | 50 | HDR biased | 96.057 | 93.3 | -2.7572 |
| 552 | 50 | HDR biased | 101.86 | 99.31 | -2.5462 |
| 553 | 50 | HDR biased | 95.718 | 91.149 | -4.5697 |
| 554 | 50 | HDR biased | 95.238 | 93.019 | -2.2194 |
| 555 | 50 | HDR biased | 97.678 | 94.644 | -3.0336 |

TID vs Post - Pre Exposure Delta

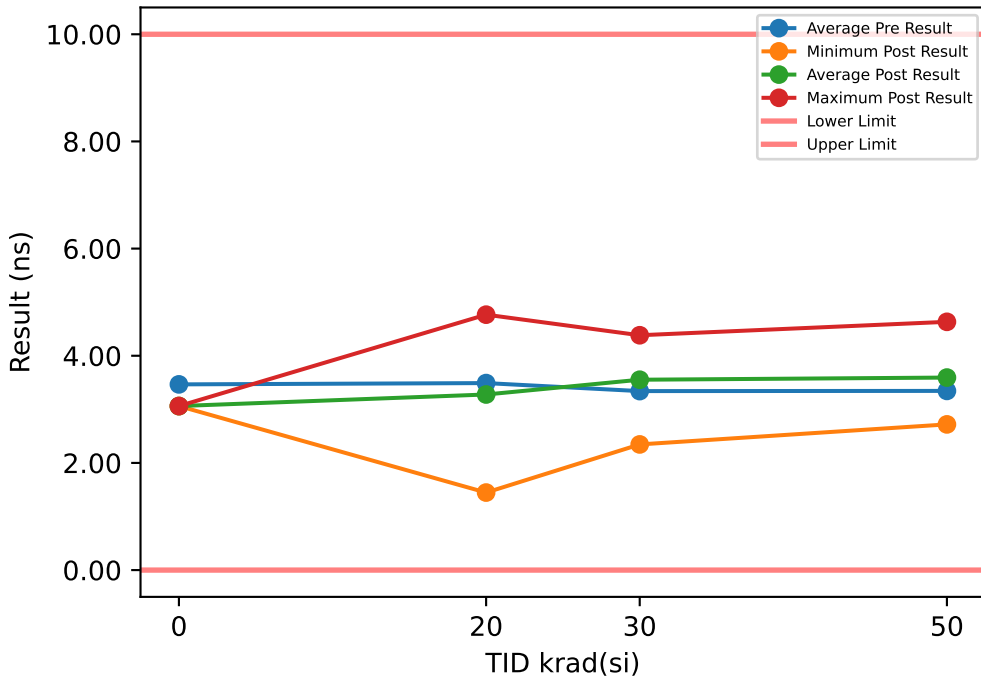


Test Statistics (ns)

| 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 | 97.281 | 97.281 | 97.281 | | 102.08 | 102.08 | 102.08 | | 4.7956 | 4.7956 | 4.7956 | |
| 20 | 90.621 | 95.44 | 98.883 | 2.247 | 88.66 | 93.553 | 96.639 | 2.2962 | -6.7226 | -1.8871 | 3.5056 | 2.4554 |
| 30 | 94.116 | 97.126 | 101.9 | 2.5308 | 91.413 | 94.297 | 100.14 | 2.363 | -6.0707 | -2.8293 | -1.1737 | 1.4677 |
| 50 | 93.496 | 96.582 | 101.86 | 2.3801 | 90.892 | 93.269 | 99.31 | 2.5793 | -8.1286 | -3.3134 | 1.735 | 2.4399 |

Device Test: 97.5 T_RLH_MIN(_DLH Dead Time Min 1MHz VIN_14V)

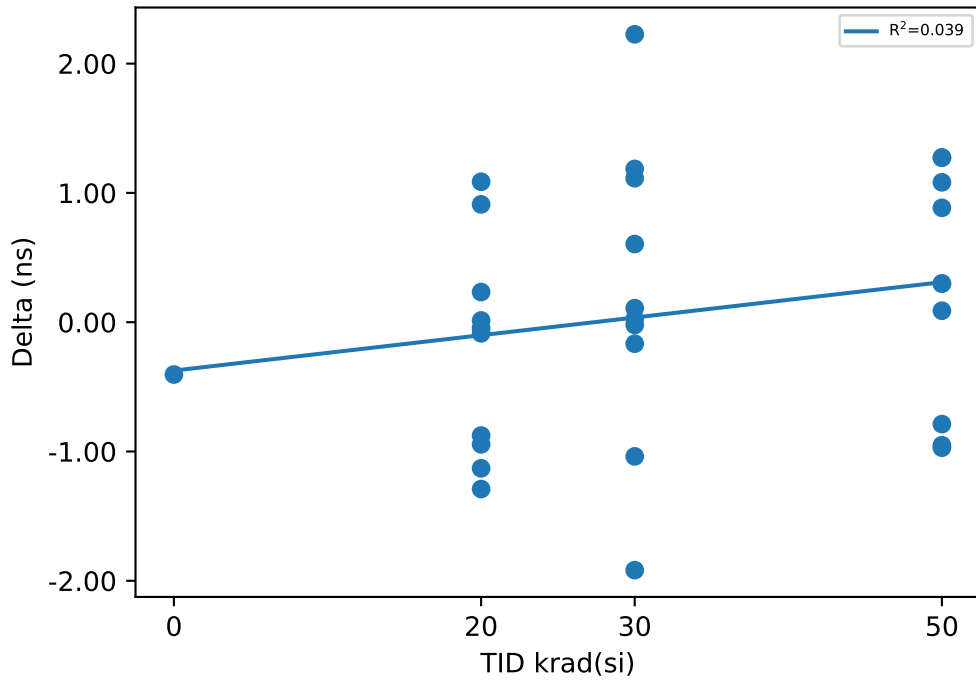
TID vs Result Stats



Test Results (Lower Limit = 0.0, Upper Limit = 10.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 3.4658 | 3.0612 | -0.4046 |
| 321 | 20 | HDR unbiased | 4.2644 | 3.3199 | -0.9445 |
| 322 | 20 | HDR unbiased | 3.444 | 2.3139 | -1.1301 |
| 323 | 20 | HDR unbiased | 1.4924 | 1.4468 | -0.0456 |
| 324 | 20 | HDR unbiased | 3.6279 | 3.542 | -0.0859 |
| 325 | 20 | HDR unbiased | 2.753 | 3.6642 | 0.9112 |
| 331 | 30 | HDR unbiased | 3.2175 | 4.3313 | 1.1138 |
| 332 | 30 | HDR unbiased | 1.8061 | 2.9916 | 1.1855 |
| 333 | 30 | HDR unbiased | 3.8718 | 3.8505 | -0.0213 |
| 334 | 30 | HDR unbiased | 4.0409 | 3.8746 | -0.1663 |
| 335 | 30 | HDR unbiased | 3.369 | 3.4776 | 0.1086 |
| 351 | 50 | HDR unbiased | 3.3258 | 3.6256 | 0.2998 |
| 352 | 50 | HDR unbiased | 3.9221 | 3.1339 | -0.7882 |
| 353 | 50 | HDR unbiased | 3.5513 | 4.6331 | 1.0818 |
| 354 | 50 | HDR unbiased | 2.6968 | 3.5814 | 0.8846 |
| 355 | 50 | HDR unbiased | 3.7181 | 2.7663 | -0.9518 |
| 521 | 20 | HDR biased | 4.0559 | 3.1791 | -0.8768 |
| 522 | 20 | HDR biased | 3.5883 | 3.6018 | 0.0135 |
| 523 | 20 | HDR biased | 3.2664 | 3.4996 | 0.2332 |
| 524 | 20 | HDR biased | 3.6805 | 4.7668 | 1.0863 |
| 525 | 20 | HDR biased | 4.7261 | 3.4358 | -1.2903 |
| 531 | 30 | HDR biased | 2.0799 | 4.3065 | 2.2266 |
| 532 | 30 | HDR biased | 3.258 | 3.2834 | 0.0254 |
| 533 | 30 | HDR biased | 3.7781 | 4.3827 | 0.6046 |
| 534 | 30 | HDR biased | 3.7207 | 2.6829 | -1.0378 |
| 535 | 30 | HDR biased | 4.2628 | 2.3452 | -1.9176 |
| 551 | 50 | HDR biased | 3.8342 | 4.1325 | 0.2983 |
| 552 | 50 | HDR biased | 2.4002 | 3.6742 | 1.274 |
| 553 | 50 | HDR biased | 4.3293 | 3.3586 | -0.9707 |
| 554 | 50 | HDR biased | 3.0329 | 4.3047 | 1.2718 |
| 555 | 50 | HDR biased | 2.6303 | 2.719 | 0.0887 |

TID vs Post - Pre Exposure Delta

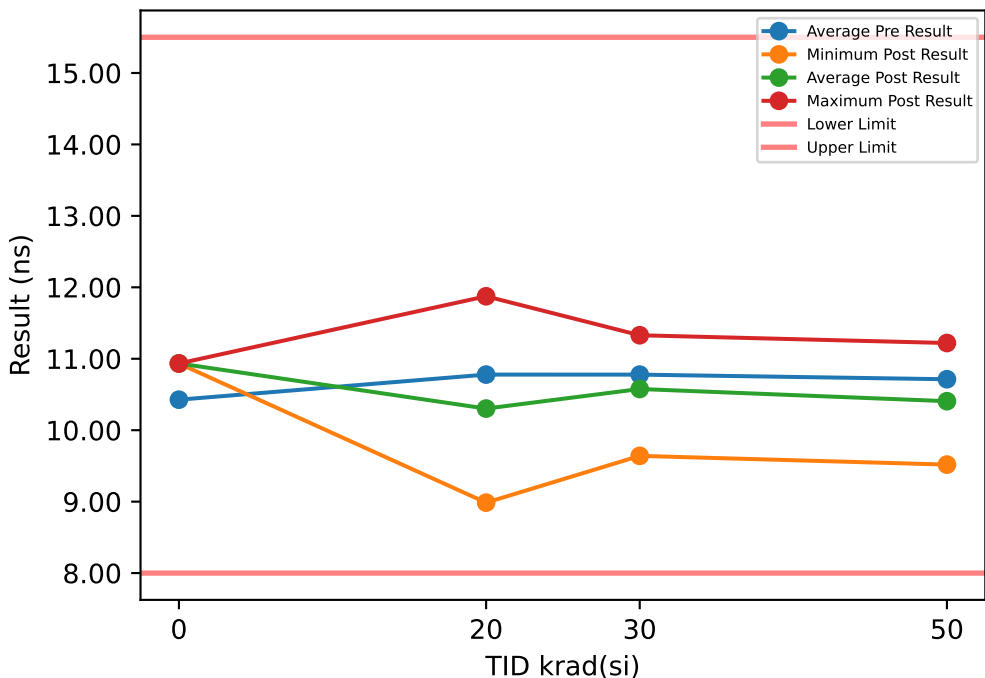


Test Statistics (ns)

| 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 | 3.4658 | 3.4658 | 3.4658 | | 3.0612 | 3.0612 | 3.0612 | | -0.4046 | -0.4046 | -0.4046 | |
| 20 | 1.4924 | 3.4899 | 4.7261 | 0.8881 | 1.4468 | 3.277 | 4.7668 | 0.87614 | -1.2903 | -0.2129 | 1.0863 | 0.83159 |
| 30 | 1.8061 | 3.3405 | 4.2628 | 0.81143 | 2.3452 | 3.5526 | 4.3827 | 0.71982 | -1.9176 | 0.21215 | 2.2266 | 1.1697 |
| 50 | 2.4002 | 3.3441 | 4.3293 | 0.63634 | 2.719 | 3.5929 | 4.6331 | 0.63247 | -0.9707 | 0.24883 | 1.274 | 0.89631 |

Device Test: 97.6 T_RLH_SMALL(_DLH Dead Time Small 1MHz VIN_14V)

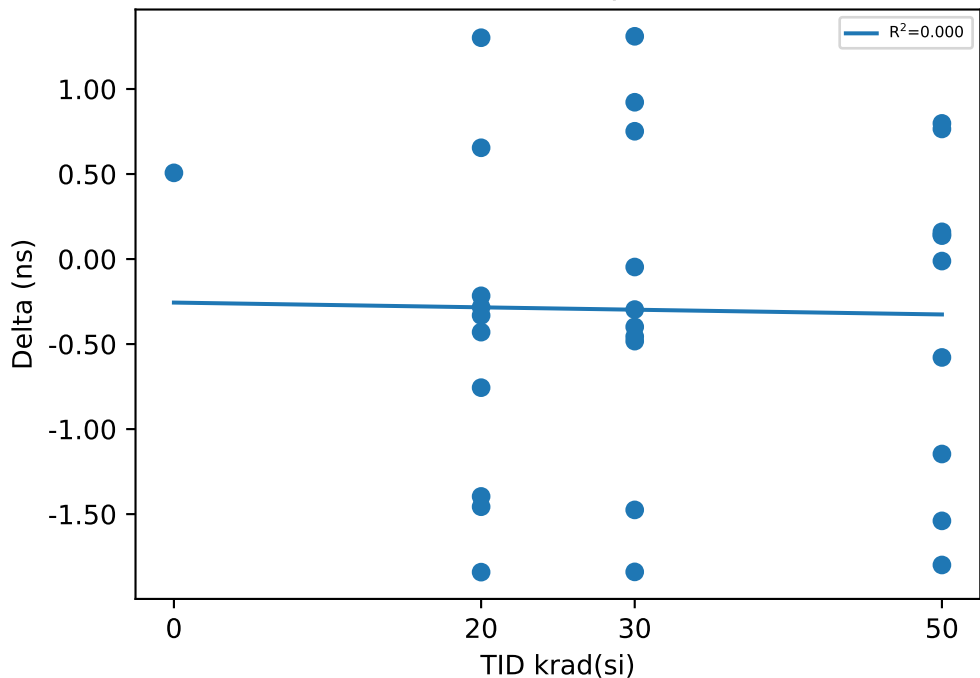
TID vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 15.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 10.427 | 10.934 | 0.5069 |
| 321 | 20 | HDR unbiased | 11.429 | 10.672 | -0.7563 |
| 322 | 20 | HDR unbiased | 10.873 | 9.4168 | -1.4564 |
| 323 | 20 | HDR unbiased | 9.2688 | 8.986 | -0.2828 |
| 324 | 20 | HDR unbiased | 10.967 | 10.75 | -0.2162 |
| 325 | 20 | HDR unbiased | 9.9388 | 10.593 | 0.6544 |
| 331 | 30 | HDR unbiased | 10.254 | 11.176 | 0.9221 |
| 332 | 30 | HDR unbiased | 9.8383 | 10.59 | 0.7515 |
| 333 | 30 | HDR unbiased | 10.886 | 10.43 | -0.4556 |
| 334 | 30 | HDR unbiased | 11.182 | 10.885 | -0.297 |
| 335 | 30 | HDR unbiased | 11.005 | 10.522 | -0.4826 |
| 351 | 50 | HDR unbiased | 10.453 | 10.614 | 0.1601 |
| 352 | 50 | HDR unbiased | 11.058 | 9.5185 | -1.5396 |
| 353 | 50 | HDR unbiased | 11.077 | 11.22 | 0.1431 |
| 354 | 50 | HDR unbiased | 10.176 | 10.314 | 0.1378 |
| 355 | 50 | HDR unbiased | 10.878 | 9.7315 | -1.1464 |
| 521 | 20 | HDR biased | 11.146 | 9.7504 | -1.3959 |
| 522 | 20 | HDR biased | 11.306 | 10.876 | -0.4298 |
| 523 | 20 | HDR biased | 10.446 | 10.115 | -0.3316 |
| 524 | 20 | HDR biased | 10.573 | 11.874 | 1.3016 |
| 525 | 20 | HDR biased | 11.835 | 9.9935 | -1.8411 |
| 531 | 30 | HDR biased | 9.858 | 11.168 | 1.3099 |
| 532 | 30 | HDR biased | 10.596 | 10.197 | -0.3988 |
| 533 | 30 | HDR biased | 11.376 | 11.329 | -0.0468 |
| 534 | 30 | HDR biased | 11.305 | 9.8296 | -1.4751 |
| 535 | 30 | HDR biased | 11.48 | 9.6408 | -1.8396 |
| 551 | 50 | HDR biased | 11.063 | 11.052 | -0.0118 |
| 552 | 50 | HDR biased | 10.169 | 10.934 | 0.7651 |
| 553 | 50 | HDR biased | 11.466 | 9.6669 | -1.799 |
| 554 | 50 | HDR biased | 10.398 | 11.196 | 0.7978 |
| 555 | 50 | HDR biased | 10.392 | 9.8137 | -0.5786 |

TID vs Post - Pre Exposure Delta

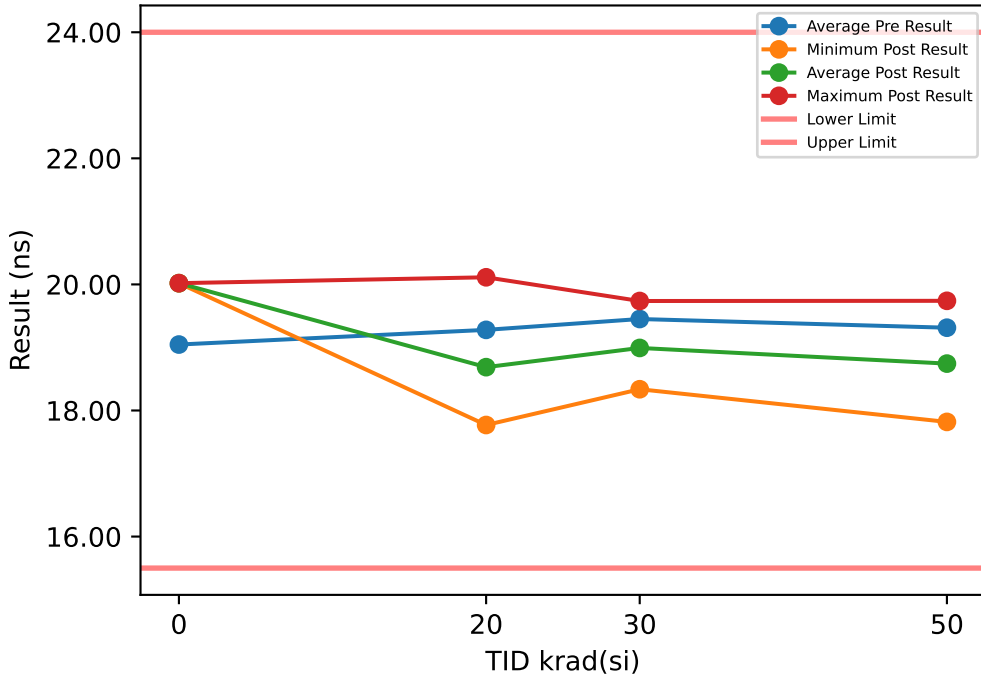


Test Statistics (ns)

| 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 | 10.427 | 10.427 | 10.427 | | 10.934 | 10.934 | 10.934 | | 0.5069 | 0.5069 | 0.5069 | |
| 20 | 9.2688 | 10.778 | 11.835 | 0.75521 | 8.986 | 10.303 | 11.874 | 0.82836 | -1.8411 | -0.47541 | 1.3016 | 0.96119 |
| 30 | 9.8383 | 10.778 | 11.48 | 0.61387 | 9.6408 | 10.577 | 11.329 | 0.57464 | -1.8396 | -0.2012 | 1.3099 | 0.99867 |
| 50 | 10.169 | 10.713 | 11.466 | 0.44996 | 9.5185 | 10.406 | 11.22 | 0.68103 | -1.799 | -0.30715 | 0.7978 | 0.9189 |

Device Test: 97.7 T_RLH_MID(_DLH Dead Time Mid 1MHz VIN_14V)

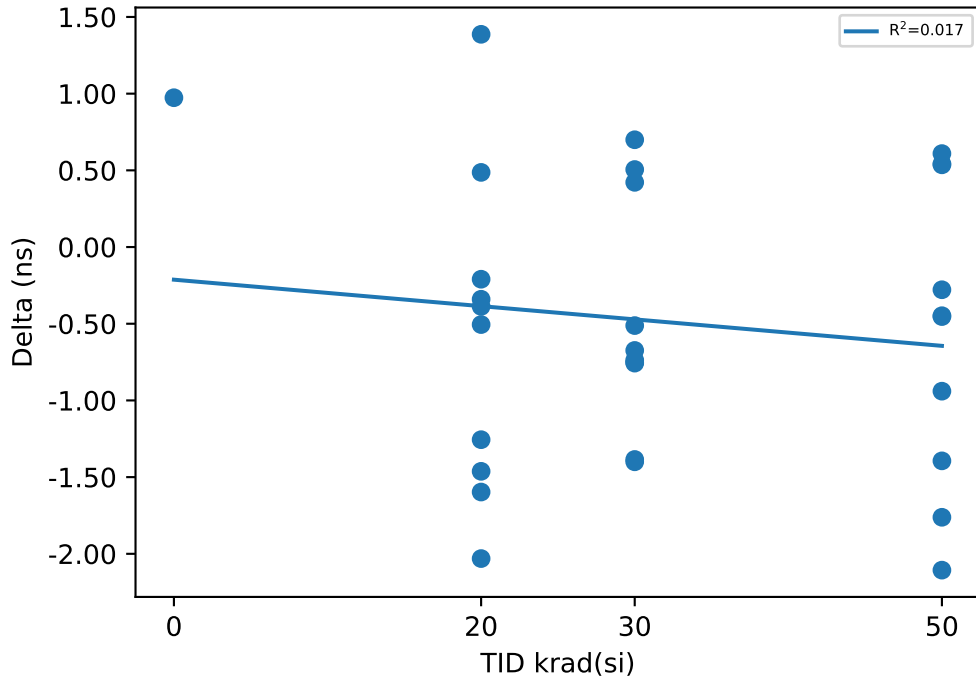
TID vs Result Stats



Test Results (Lower Limit = 15.5, Upper Limit = 24.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 19.046 | 20.02 | 0.9735 |
| 321 | 20 | HDR unbiased | 19.779 | 18.523 | -1.2559 |
| 322 | 20 | HDR unbiased | 19.547 | 17.95 | -1.5972 |
| 323 | 20 | HDR unbiased | 18.275 | 17.77 | -0.5054 |
| 324 | 20 | HDR unbiased | 19.468 | 19.258 | -0.2098 |
| 325 | 20 | HDR unbiased | 18.234 | 18.721 | 0.4867 |
| 331 | 30 | HDR unbiased | 18.809 | 19.231 | 0.4218 |
| 332 | 30 | HDR unbiased | 18.956 | 19.462 | 0.5054 |
| 333 | 30 | HDR unbiased | 19.175 | 18.424 | -0.7507 |
| 334 | 30 | HDR unbiased | 19.73 | 19.056 | -0.6741 |
| 335 | 30 | HDR unbiased | 19.749 | 18.992 | -0.7568 |
| 351 | 50 | HDR unbiased | 18.695 | 19.231 | 0.536 |
| 352 | 50 | HDR unbiased | 19.581 | 17.819 | -1.7618 |
| 353 | 50 | HDR unbiased | 20.106 | 19.166 | -0.9397 |
| 354 | 50 | HDR unbiased | 18.837 | 18.389 | -0.4477 |
| 355 | 50 | HDR unbiased | 19.285 | 17.891 | -1.394 |
| 521 | 20 | HDR biased | 19.64 | 18.178 | -1.4622 |
| 522 | 20 | HDR biased | 19.882 | 19.495 | -0.387 |
| 523 | 20 | HDR biased | 18.925 | 18.584 | -0.3404 |
| 524 | 20 | HDR biased | 18.726 | 20.113 | 1.3869 |
| 525 | 20 | HDR biased | 20.313 | 18.282 | -2.031 |
| 531 | 30 | HDR biased | 18.648 | 19.348 | 0.6995 |
| 532 | 30 | HDR biased | 19.074 | 18.337 | -0.737 |
| 533 | 30 | HDR biased | 20.249 | 19.737 | -0.512 |
| 534 | 30 | HDR biased | 20.118 | 18.733 | -1.3849 |
| 535 | 30 | HDR biased | 20.003 | 18.603 | -1.4001 |
| 551 | 50 | HDR biased | 19.536 | 19.258 | -0.2784 |
| 552 | 50 | HDR biased | 19.13 | 19.74 | 0.6093 |
| 553 | 50 | HDR biased | 19.956 | 17.849 | -2.1064 |
| 554 | 50 | HDR biased | 18.801 | 19.343 | 0.5424 |
| 555 | 50 | HDR biased | 19.207 | 18.753 | -0.4533 |

TID vs Post - Pre Exposure Delta

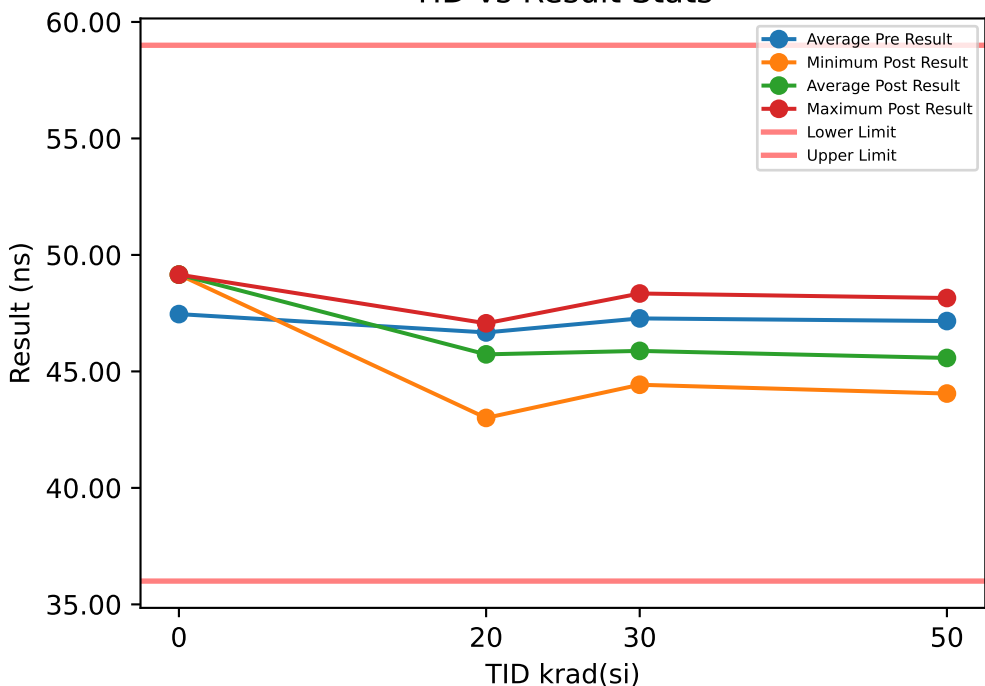


Test Statistics (ns)

| 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 | 19.046 | 19.046 | 19.046 | | 20.02 | 20.02 | 20.02 | | 0.9735 | 0.9735 | 0.9735 | |
| 20 | 18.234 | 19.279 | 20.313 | 0.70332 | 17.77 | 18.687 | 20.113 | 0.73473 | -2.031 | -0.59153 | 1.3869 | 1.0337 |
| 30 | 18.648 | 19.451 | 20.249 | 0.58419 | 18.337 | 18.992 | 19.737 | 0.46351 | -1.4001 | -0.45889 | 0.6995 | 0.75212 |
| 50 | 18.695 | 19.313 | 20.106 | 0.48082 | 17.819 | 18.744 | 19.74 | 0.71021 | -2.1064 | -0.56936 | 0.6093 | 0.97534 |

Device Test: 97.8 T_RLH_LARGE(_DLH Dead Time Large 1MHz VIN_14V)

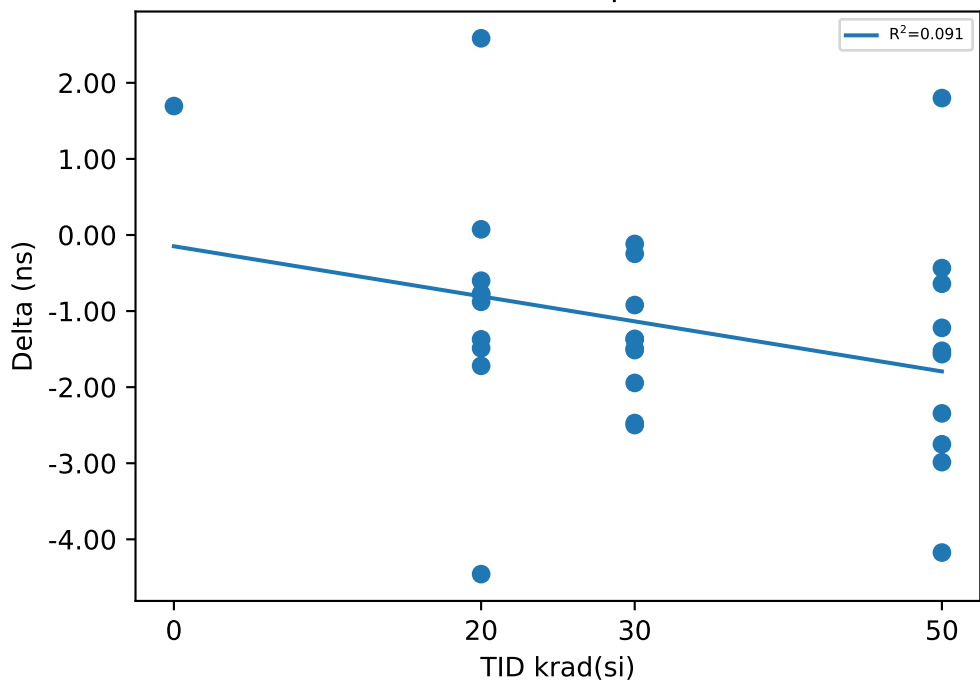
TID vs Result Stats



Test Results (Lower Limit = 36.0, Upper Limit = 59.0 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 47.46 | 49.155 | 1.6948 |
| 321 | 20 | HDR unbiased | 46.996 | 45.276 | -1.7197 |
| 322 | 20 | HDR unbiased | 47.151 | 45.779 | -1.3717 |
| 323 | 20 | HDR unbiased | 47.026 | 46.147 | -0.8786 |
| 324 | 20 | HDR unbiased | 47.149 | 46.38 | -0.7699 |
| 325 | 20 | HDR unbiased | 45.48 | 45.554 | 0.0746 |
| 331 | 30 | HDR unbiased | 45.983 | 45.865 | -0.1177 |
| 332 | 30 | HDR unbiased | 48.592 | 48.345 | -0.247 |
| 333 | 30 | HDR unbiased | 45.94 | 44.427 | -1.5127 |
| 334 | 30 | HDR unbiased | 46.85 | 45.357 | -1.4931 |
| 335 | 30 | HDR unbiased | 47.354 | 45.989 | -1.3651 |
| 351 | 50 | HDR unbiased | 45.322 | 47.121 | 1.7994 |
| 352 | 50 | HDR unbiased | 47.629 | 44.879 | -2.7507 |
| 353 | 50 | HDR unbiased | 48.93 | 44.756 | -4.174 |
| 354 | 50 | HDR unbiased | 46.234 | 44.669 | -1.566 |
| 355 | 50 | HDR unbiased | 46.787 | 44.443 | -2.3446 |
| 521 | 20 | HDR biased | 46.968 | 45.48 | -1.4885 |
| 522 | 20 | HDR biased | 47.666 | 47.065 | -0.6006 |
| 523 | 20 | HDR biased | 46.522 | 45.744 | -0.7783 |
| 524 | 20 | HDR biased | 44.308 | 46.893 | 2.5851 |
| 525 | 20 | HDR biased | 47.461 | 43.004 | -4.4576 |
| 531 | 30 | HDR biased | 46.836 | 45.915 | -0.9207 |
| 532 | 30 | HDR biased | 46.672 | 44.728 | -1.9446 |
| 533 | 30 | HDR biased | 49.055 | 46.583 | -2.4718 |
| 534 | 30 | HDR biased | 48.289 | 45.791 | -2.4984 |
| 535 | 30 | HDR biased | 47.18 | 45.807 | -1.3729 |
| 551 | 50 | HDR biased | 47.105 | 45.885 | -1.2204 |
| 552 | 50 | HDR biased | 48.792 | 48.151 | -0.6406 |
| 553 | 50 | HDR biased | 47.036 | 44.05 | -2.9858 |
| 554 | 50 | HDR biased | 46.316 | 45.881 | -0.435 |
| 555 | 50 | HDR biased | 47.466 | 45.944 | -1.522 |

TID vs Post - Pre Exposure Delta

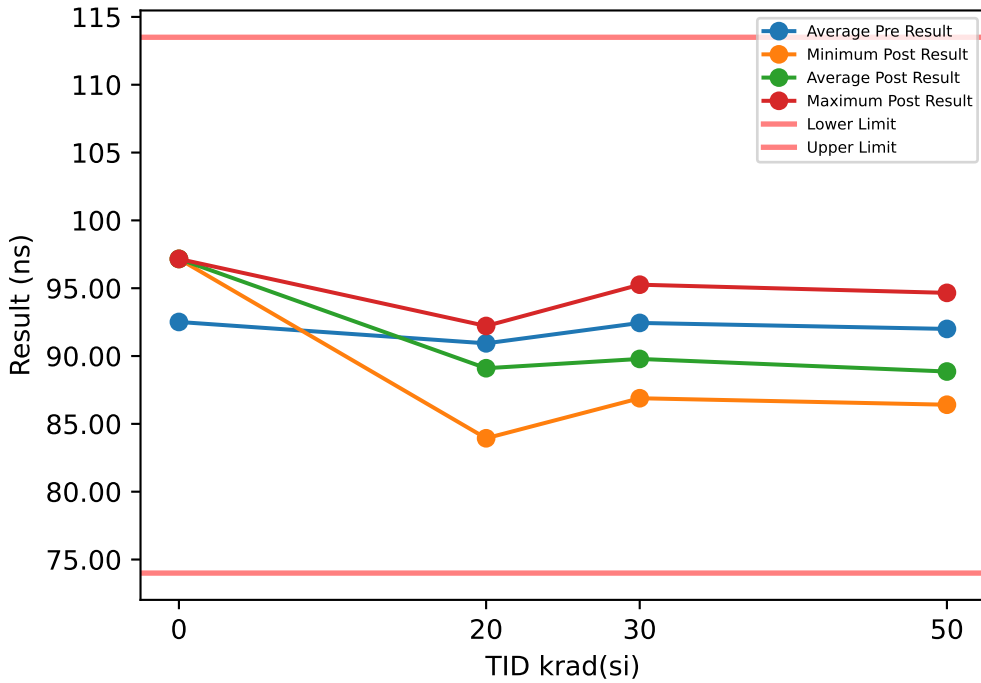


Test Statistics (ns)

| 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 | 47.46 | 47.46 | 47.46 | | 49.155 | 49.155 | 49.155 | | 1.6948 | 1.6948 | 1.6948 | |
| 20 | 44.308 | 46.673 | 47.666 | 1.023 | 43.004 | 45.732 | 47.065 | 1.1287 | -4.4576 | -0.94052 | 2.5851 | 1.7352 |
| 30 | 45.94 | 47.275 | 49.055 | 1.0612 | 44.427 | 45.881 | 48.345 | 1.0702 | -2.4984 | -1.3944 | -0.1177 | 0.80817 |
| 50 | 45.322 | 47.162 | 48.93 | 1.1161 | 44.05 | 45.578 | 48.151 | 1.2884 | -4.174 | -1.584 | 1.7994 | 1.6468 |

Device Test: 97.9 T_RLH_MAX(_DLH Dead Time Max 1MHz VIN_14V)

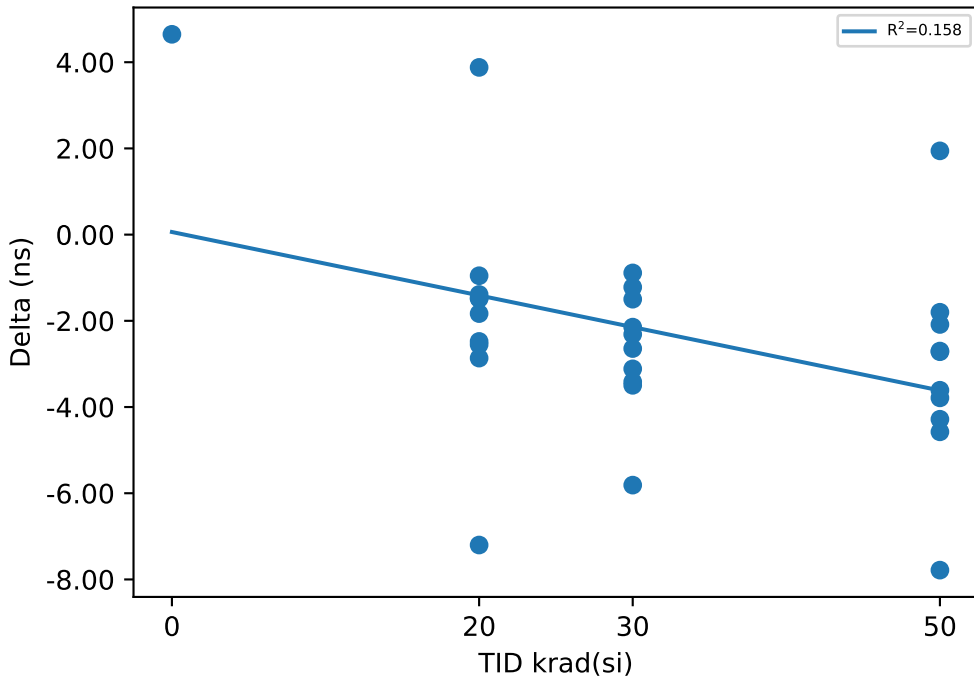
TID vs Result Stats



Test Results (Lower Limit = 74.0, Upper Limit = 113.5 (ns))

| Serial # | krad(si) | Exposure Conditions | Pre Result | Post Result | Delta |
|----------|----------|---------------------|------------|-------------|---------|
| 1 | 0 | correlation | 92.512 | 97.159 | 4.6474 |
| 321 | 20 | HDR unbiased | 89.928 | 87.377 | -2.5513 |
| 322 | 20 | HDR unbiased | 91.916 | 89.438 | -2.478 |
| 323 | 20 | HDR unbiased | 93.687 | 92.216 | -1.4712 |
| 324 | 20 | HDR unbiased | 91.638 | 90.153 | -1.4848 |
| 325 | 20 | HDR unbiased | 89.959 | 89.005 | -0.9538 |
| 331 | 30 | HDR unbiased | 89.657 | 88.768 | -0.8884 |
| 332 | 30 | HDR unbiased | 96.758 | 95.26 | -1.4981 |
| 333 | 30 | HDR unbiased | 89.532 | 86.889 | -2.6431 |
| 334 | 30 | HDR unbiased | 90.817 | 88.671 | -2.146 |
| 335 | 30 | HDR unbiased | 92.809 | 90.497 | -2.3126 |
| 351 | 50 | HDR unbiased | 88.987 | 90.93 | 1.9432 |
| 352 | 50 | HDR unbiased | 92.01 | 87.727 | -4.2833 |
| 353 | 50 | HDR unbiased | 94.196 | 86.412 | -7.7841 |
| 354 | 50 | HDR unbiased | 90.585 | 86.975 | -3.6104 |
| 355 | 50 | HDR unbiased | 90.861 | 87.074 | -3.7871 |
| 521 | 20 | HDR biased | 91.179 | 88.314 | -2.8648 |
| 522 | 20 | HDR biased | 93.44 | 92.052 | -1.3886 |
| 523 | 20 | HDR biased | 90.472 | 88.64 | -1.8321 |
| 524 | 20 | HDR biased | 86.008 | 89.888 | 3.8797 |
| 525 | 20 | HDR biased | 91.139 | 83.938 | -7.2013 |
| 531 | 30 | HDR biased | 92.735 | 89.321 | -3.4145 |
| 532 | 30 | HDR biased | 91.124 | 88.01 | -3.1142 |
| 533 | 30 | HDR biased | 96.042 | 90.23 | -5.8117 |
| 534 | 30 | HDR biased | 93.159 | 89.663 | -3.4962 |
| 535 | 30 | HDR biased | 91.779 | 90.559 | -1.2197 |
| 551 | 50 | HDR biased | 91.665 | 88.948 | -2.7167 |
| 552 | 50 | HDR biased | 96.742 | 94.657 | -2.0843 |
| 553 | 50 | HDR biased | 91.381 | 86.806 | -4.5752 |
| 554 | 50 | HDR biased | 90.521 | 88.72 | -1.8009 |
| 555 | 50 | HDR biased | 93.045 | 90.343 | -2.7015 |

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 | 92.512 | 92.512 | 92.512 | | 97.159 | 97.159 | 97.159 | | 4.6474 | 4.6474 | 4.6474 | |
| 20 | 86.008 | 90.937 | 93.687 | 2.1567 | 83.938 | 89.102 | 92.216 | 2.374 | -7.2013 | -1.8346 | 3.8797 | 2.6806 |
| 30 | 89.532 | 92.441 | 96.758 | 2.435 | 86.889 | 89.787 | 95.26 | 2.244 | -5.8117 | -2.6545 | -0.8884 | 1.4281 |
| 50 | 88.987 | 91.999 | 96.742 | 2.1974 | 86.412 | 88.859 | 94.657 | 2.5465 | -7.7841 | -3.14 | 1.9432 | 2.4652 |

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