

TPS7H4013-SP Neutron Displacement Damage (NDD) Characterization Report



ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the Texas Instruments TPS7H4013-SP. The TPS7H4013-SP showed a strong degree of hardness to neutron irradiation up to fluence level 1×10^{13} n/cm².

The neutron irradiation test is a destructive test. The test procedure follows MIL-STD-883 method 1017 as guidance. The purpose of this test is to determine the device susceptibility to non-ionizing energy loss (NIEL) degradation. The objectives of the test are to detect and measure the degradation of critical device parameters as a function of neutron fluence and determine if these parameters are within specified limits after exposure to a specified level of neutron fluence.

Table of Contents

1 Device Information	2
1.1 Product Description.....	2
1.2 Device Details.....	2
2 Total Dose Test Setup	3
2.1 Test Overview.....	3
2.2 Test Facility.....	3
2.3 Test Setup Details.....	3
2.4 Test Configuration and Condition.....	3
3 NDD Characterization Test Results	4
3.1 NDD Characterization Summary.....	4
3.2 Datasheet Electrical Parameter Characteristics.....	4
4 Applicable and Reference Documents	11
4.1 Applicable Documents.....	11
4.2 Reference Documents.....	11
A Appendix: NDD Report Data	12
B Revision History	13

List of Figures

Figure 1-1. TPS7H4013-SP Device.....	2
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List of Tables

Table 1-1. Device and Exposure Details.....	2
Table 2-1. Neutron Irradiation Conditions.....	3
Table 3-1. Datasheet Electrical Parameter Characteristics.....	4
Table A-1. Decoder Implementation, Example Test: IDD STATIC VIN/14////@VIN_SHDN_CURR_14V.....	12

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1 Device Information

1.1 Product Description

The TPS7H4013 is a 14V, 3A synchronous buck converter optimized for use in a space environment. High efficiency and reduced component count are achieved through peak current mode control.

The wide voltage range of the TPS7H4013 enables the device to be used as a point of load regulator to convert directly from a 12V or 5V rail. The output voltage start-up ramp is controlled by the SS_TR pin. Power sequencing is possible with the EN and PWRGD pins. The device can be configured with up to four devices in parallel without an external clock for increased current capabilities. Additionally, various features are included such as differential remote sensing, selectable current limit, a flexible fault input pin, and configurable compensation.

1.2 Device Details

Table 1-1 lists the device information used in the initial NDD characterization.

Table 1-1. Device and Exposure Details

NDD Exposure Details	
TI Device	TPS7H4013-SP
TI Part Name	5962R2122104PYE
Package	44-pin DDW (HTSSOP)
Technology	Linear BiCMOS (LBC7)
Lot Number / Date Code	5391984 / 56AVQ9K
Sample Quantity	12 +4 control units
Exposure Facility	VPT Rad
Neutron Fluence (1-MeV equivalent) Level	1×10^{12} , 5×10^{12} , 1×10^{13} n/cm ²
Irradiation Temperature	Ambient room temperature (25°C)



Figure 1-1. TPS7H4013-SP Device

2 Total Dose Test Setup

2.1 Test Overview

General test procedures adhere to MIL-STD-883, Method 1017 as a guide for neutron irradiation. The TPS7H4013-SP was electrically tested using the production automated test equipment (ATE) program at an ambient room temperature of 25°C before and after neutron irradiation.

2.2 Test Facility

VPT Rad performs all neutron displacement damage irradiations in a low-enriched, open-pool, water moderated, thermal neutron reactor. VPT Rad uses flat-plate type fuel, and having a maximum thermal energy output of up to 1MW. The fast neutron irradiator (FNI) faces one side of the reactor core, the design produces a geometrical planar beam of fast neutrons that is approximately uniform over an area of 12in × 20in. Lead and thermal neutron absorbing compounds are combined to filter out both fission gammas and thermal neutrons. The ratio of fast-to-thermal neutrons is approximately 400:1, with a gamma exposure of less than 150rad(Si) for a 1E12n/cm² (1MeV Si equivalent) exposure. The FNI can accommodate a sample or samples with size up to 30cm in diameter and 15 cm thick including packaging materials. The minimum neutron fluence rate is 1E6n/cm²-s. The maximum neutron fluence rate is approximately 1E11n/cm²-s. Both values are 1MeV Si equivalent. The neutron fluence rate is determined using the previously measured neutron radiation field for the FNI, performed in accordance with ASTM standards (ASTM F1190), and correlated to the measured reactor power level. The neutron dose is timed to meet the customer-specified fluence for the irradiation. Neutron dosimetry meeting ASTM standards (ASTM E265) is used to track and verify irradiations meet the required minimum. The facility retains source-suitability with the Defense Logistics Agency (DLA) Laboratory Suitability Program for ASTM Test Method 1017. The DUTS are typically irradiation in an unbiased condition as per TM1017. If bias conditions are required, the conditions can be maintained through dry thimbles connected to the irradiation volume.

2.3 Test Setup Details

Devices were irradiated at three fluence levels in unbiased conditions: 1.0 × 10¹²n/cm², 5.0 × 10¹²n/cm² and 1.0 × 10¹³n/cm². See the details in the following table.

2.4 Test Configuration and Condition

Table 2-1. Neutron Irradiation Conditions

GROUP	SAMPLE QTY	NEUTRON FLUENCE (n/cm ²)	BIAS
A	4	1.0 × 10 ¹²	Unbias
B	4	5.0 × 10 ¹²	Unbias
C	4	1.0 × 10 ¹³	Unbias
Control Units	4	N/A	N/A

3 NDD Characterization Test Results

3.1 NDD Characterization Summary

The results show that all devices were fully functional and within specification limits. A sample size of twelve units were exposed for neutron irradiation and an additional four unirradiated control units were used as correlation. Overall, the TPS7H4013-SP showed a strong degree of hardness to neutron irradiation up to fluence level $1 \times 10^{13} \text{n/cm}^2$. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each fluence level.

The parameters that did show a greater degree of change between pre- and post-irradiation were still within the electrical performance characteristics specified in the datasheet electrical parameters. Electrical testing is done for pre- and post- neutron irradiation by ATE. ATE electrical test is done at an ambient room temperature of 25°C.

See [Appendix A](#) for NDD report up to $1 \times 10^{13} \text{n/cm}^2$.

3.2 Datasheet Electrical Parameter Characteristics

Over $4.5\text{V} \leq V_{IN} \leq 14\text{V}$, $P_{VIN} = V_{IN}$, $V_{SNS-} = 0\text{V}$, open loop configuration, $I_{OUT} = 0\text{A}$, $T_A = 25^\circ\text{C}$, unless otherwise noted.

Table 3-1. Datasheet Electrical Parameter Characteristics

PARAMETER	TEST CONDITIONS	SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S	
POWER SUPPLIES AND CURRENTS								
V_{UVLOR_PVIN}	PVIN internal UVLO rising threshold	1, 2, 3	3.2	3.4	3.6	V	14.1, 14.7, 14.13, 14.19	
$V_{UVLOHYST_PVIN}$	PVIN internal UVLO hysteresis	1, 2, 3	425	450	500	mV	14.3, 14.9, 14.15, 14.21	
V_{UVLOR_VIN}	VIN internal UVLO rising threshold	1, 2, 3	3.4	3.6	3.8	V	14.4, 14.10, 14.16, 14.22	
$V_{UVLOHYST_VIN}$	VIN internal UVLO hysteresis	1, 2, 3	140	155	170	mV	14.6, 14.12, 14.18, 14.24	
I_{SHDN_VIN}	VIN shutdown supply current	$V_{EN} = 0\text{V}$	VIN = 4.5V	1, 2, 3	2	2.9	mA	12.1
			VIN = 14V	1, 2, 3	2	3		12.16
I_{SHDN_PVIN}	PVIN shutdown supply current	$V_{EN} = 0\text{V}$	PVIN = 4.5V	1, 2, 3	2.6	3.5	mA	12.2
			PVIN = 14V	1, 2, 3	3.5	4.7		12.17
I_{Q_VIN}	VIN operating quiescent current (non switching)	$V_{EN} = 7\text{V}$, $V_{SNS+} = 1\text{V}$	1, 2, 3	2.6	5	mA	12.3, 12.8, 12.13, 12.18	
ENABLE								

Table 3-1. Datasheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S
$V_{EN(\text{rising})}$	Enable rising threshold (turn-on)			1, 2, 3	0.555	0.61	0.655	V	15.3, 15.6, 15.9, 15.12
$V_{EN(\text{falling})}$	Enable falling threshold (turn-off)			1, 2, 3	0.455	0.51	0.554	V	15.4, 15.7, 15.10, 15.13
$t_{EN(\text{delay})}$	Enable propagation delay	EN high to SW high, SS pin open		1, 2, 3		52	100	μs	24.23, 24.69, 24.112, 24.155
$I_{EN(\text{LKG})}$	Enable input leakage current	$V_{EN} = 7V$		1, 2, 3		2	100	nA	15.1, 15.15
VOLTAGE REFERENCE AND SENSE									
V_{REF}	Internal voltage reference (including error amplifier VIO)	See datasheet	$T_A = -55^\circ\text{C}$	3	0.594	0.598	0.603	V	17.4, 17.16, 17.28, 17.40
			$T_A = 25^\circ\text{C}$	1	0.596	0.6	0.603		
			$T_A = 125^\circ\text{C}$	2	0.597	0.6	0.604		
$V_{REF(\text{internal})}$	Internal voltage reference (without error amplifier included)	$V_{REF(\text{internal})} = V_{SS_TR}$		1, 2, 3	0.593	0.6	0.606	V	17.2, 17.14, 17.26, 17.38
V_{BG}	Bandgap voltage (voltage at the REFCAP pin)	$C_{REFCAP} = 470\text{nF}$		1, 2, 3	1.184	1.2	1.222	V	12.5, 12.10, 12.15, 12.20
$I_{VSNS+(\text{LKG})}$	VSNS+ input leakage current	$VSNS+ = 0.6V$		1, 2, 3		10	30	nA	17.5, 17.17, 17.29, 17.41
ERROR AMPLIFIER									
V_{IO}	Error amplifier input offset voltage	$VSNS+ = 0.6V$		1, 2, 3	-2.9		2.9	mV	17.3, 17.15, 17.27, 17.39
g_{mEA}	Error amplifier transconductance	$-10\mu\text{A} < I_{COMP} < 10\mu\text{A}, V_{COMP} = 1V$	$T_A = -55^\circ\text{C}$	11	1400	2050	2700	μS	18.2, 18.8, 18.14, 18.20
			$T_A = 25^\circ\text{C}$	9	1200	1650	2100		
			$T_A = 125^\circ\text{C}$	10	1000	1250	1500		

Table 3-1. Datasheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S
EA _{DC}	Error amplifier DC gain	VSNS+ = 0.6V				11500		V/V	
EA _{ISRC}	Error amplifier source	V _{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	μA	18.3, 18.9, 18.15, 18.21
EA _{ISNK}	Error amplifier sink	V _{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	μA	18.4, 18.10, 18.16, 18.22
EA _{Ro}	Error amplifier output resistance					7		MΩ	
EA _{BW}	Error amplifier bandwidth	Unity gain bandwidth				9		MHz	
g _{mps}	Power stage transconductance	V _{COMP} = 0.75V	TPS7H4013, HTSSOP	1, 2, 3	3.5	6.2	9.2	S	20.7, 20.58, 20.109, 20.160
OVERCURRENT PROTECTION									
I _{OC_HS1}	High-side switch current limit threshold 1(4)	R _{SHORT} = 100mΩ	TPS7H4013, HTSSOP	1, 2, 3		5.6	7.7	A	20.5, 20.56, 20.107, 20.158
I _{OC_HS2}	High-side switch current limit threshold 2	V _{IN} = 12V, R _{SHORT} ≈ 4mΩ	TPS7H4013, HTSSOP	1, 2, 3		6.8		A	20.6, 20.57, 20.108, 20.159
I _{OC_LS(sink)}	Low-side switch sinking overcurrent threshold	T _A = -55°C		3		2		A	
		T _A = 25°C		1		1.9		A	19.14, 19.17, 19.20, 19.23
		T _A = 125°C		2		1.7		A	
COMP _{SHDN}	COMP shutdown voltage			1, 2, 3	1.7	1.9	2.1	V	22.2, 22.9, 22.16, 22.23
t _{COMP(delay)}	COMP shutdown delay			9, 10, 11		30		μs	
SOFT START AND TRACKING									

Table 3-1. Datasheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S
t _{SS}	Soft start time	V _{SS_TR} from 10% to 90%, V _{OUT(set)} = 3.3V	CSS = 5.6nF	9, 10, 11		1.5		ms	22.5, 22.12, 22.19, 22.26
			CSS = 22nF	9, 10, 11	4.7	5.8	7.3		22.6, 22.13, 22.20, 22.27
			CSS = 100nF	9, 10, 11		24.7			22.7, 22.14, 22.21, 22.28
R _{SS(discharge)}	Soft start discharge pull-down resistor			1, 2, 3	200	442	700	Ω	22.3, 22.10, 22.17, 22.24
SS _{startup}	Maximum voltage on SS before startup(5)					20		mV	22.4, 22.11, 22.18, 22.25
SLOPE COMPENSATION									
SC	Slope compensation, TPS74013	f _{sw} = 100kHz, VIN = 12V	RSC = 499kΩ			-0.5		A/μs	
			RSC = 1.5MΩ			-0.2			
		f _{sw} = 500kHz, VIN = 12V	RSC = 100kΩ			-2.8		A/μs	
			RSC = 499kΩ			-1.2			
			RSC = 1.5MΩ			-0.8			
		f _{sw} = 1000kHz, VIN = 12V	RSC = 100kΩ			-4		A/μs	
RSC = 499kΩ				-2					
RSC = 1.5MΩ				-1.5					
MINIMUM ON TIME AND DEAD TIME									
t _{on(min)}	Minimum on time	50% to 50% of VIN, I _{sw} = 2A	VIN = 4.5V	9, 10, 11		210	235	ns	24.22
			VIN = 5V	9, 10, 11		213	250		24.68
			VIN = 12V	9, 10, 11		199	250		24.11
			VIN = 14V	9, 10, 11		199	250		24.15
t _{off(min)}	Minimum off time	I _{sw} = 2A				306		ns	
t _{dead}	Dead time					70		ns	
SWITCHING FREQUENCY AND SYNCHRONIZATION									

Table 3-1. Datasheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S
f _{sw}	RT programmed switching frequency	R _{RT} = 511kΩ		4, 5, 6	90	100	120	kHz	24.12, 24.58, 24.101, 24.144
		R _{RT} = 90.9kΩ		4, 5, 6	450	500	550		kHz
		R _{RT} = 40.2kΩ	V _{IN} = 4.5V	4, 5, 6	850	1000	1150	kHz	24.2
5 ≤ V _{IN} ≤ 14	4, 5, 6		870	1000	1170	24.66, 24.109, 24.152			
t _{SYNC_D}	SYNC1 to SW delay	SYNC1 input, see datasheet	V _{IN} = 4.5V	9, 10, 11	150	256	390	ns	24.3
			5V ≤ V _{IN} ≤ 14V	9, 10, 11	160	240	310		24.49, 24.92, 24.135
			V _{IN} = 12V, I _{OUT} = 3A			246			
V _{SYNC1(IH)}	SYNC1 input high threshold			1, 2, 3			1.7	V	24.4, 24.50, 24.93, 24.136
V _{SYNC1(IL)}	SYNC1 input low threshold			1, 2, 3	0.7			V	24.5, 24.51, 24.94, 24.137
f _{SYNC}	SYNC1 input frequency range			4, 5, 6	100		1000	kHz	24.1, 24.6, 24.7, 24.47, 24.52, 24.53, 24.90, 24.95, 24.96, 24.133, 24.138, 24.139

Table 3-1. Datasheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S
D _{SYNC}	SYNC1 input duty cycle range	External clock duty cycle		4, 5, 6	40%		60%		24.8, 24.9, 24.54, 24.55, 24.97, 24.98, 24.140, 24.141, 24.80, 24.90, 24.540, 24.550, 24.970, 24.980, 24.1400, 24.1410
t _{CLK_E_I}	External clock to internal clock detection time	RT populated		9, 10, 11		2	5	(1/f _{sw}) s	24.10, 24.56, 24.99, 24.142
t _{CLK_I_E}	Internal clock to external clock detection time	RT populated		9, 10, 11		1	2	(1/f _{sw}) s	24.11, 24.57, 24.100, 24.143
POWER GOOD AND THERMAL SHUTDOWN									
PWRGD _{LOW_F} %	PWRGD falling threshold (fault), low	Threshold for PWRGD (VSNS+ as percent of V _{REF})	VSNS+ falling	1, 2, 3	89%	92%	95%		23.2, 23.10, 23.17, 23.24
PWRGD _{LOW_R} %	PWRGD rising threshold (good), low	Threshold for PWRGD (VSNS+ as percent of V _{REF})	VSNS+ rising	1, 2, 3	92%	95%	98%		23.3, 23.11, 23.18, 23.25
PWRGD _{HIGH_R} %	PWRGD rising threshold (fault), high	Threshold for PWRGD (VSNS+ as percent of V _{REF})	VSNS+ rising	1, 2, 3	105%	108%	112%		23.4, 23.12, 23.19, 23.26

Table 3-1. Datasheet Electrical Parameter Characteristics (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBER S
$PWRGD_{HIGH_F\%}$	PWRGD falling threshold (good), high	Threshold for PWRGD (VSNS+ as percent of V_{REF})	VSNS+ falling	1, 2, 3	102%	105%	109%		23.5, 23.13, 23.20, 23.27
$I_{PWRGD(LKG)}$	Output high leakage	$V_{SNS+} = V_{REF}, V_{PWRGD} = 7V$		1, 2, 3		50	500	nA	23.6, 23.14, 23.21, 23.28
$V_{PWRGD(OL)}$	Power good output low	$I_{PWRGD(SINK)} = 0mA$ to 2mA		1, 2, 3		250	300	mV	23.7, 23.15, 23.22, 23.29
V_{INMIN_PWRGD}	Minimum V_{IN} for valid PWRGD output	Measured when $V_{PWRGD} \leq 0.5V$ at 100 μ A		1, 2, 3		1	2	V	23.1
$T_{SD(enter)}$	Thermal shutdown enter temperature					175		$^{\circ}C$	
$T_{SD(exit)}$	Thermal shutdown exit temperature					140		$^{\circ}C$	
$T_{SD(HYS)}$	Thermal shutdown hysteresis					35		$^{\circ}C$	
MOSFET									
$R_{DS_ON_HS}$	High-side switch resistance at $I_{HS} = 3A$, TPS7H4013, HTSSOP	$P_{VIN} = 4.5V$	$T_A = -55^{\circ}C$	3		28	41	m Ω	20.4, 20.5
			$T_A = 25^{\circ}C$	1		36	47		
			$T_A = 125^{\circ}C$	2		46	62		
		$5V \leq P_{VIN} \leq 14V$	$T_A = -55^{\circ}C$	3		26	38	m Ω	20.55, 20.56, 20.106, 20.107, 20.157, 20.158
			$T_A = 25^{\circ}C$	1		33	46		
			$T_A = 125^{\circ}C$	2		41	56		
$R_{DS_ON_LS}$	Low-side switch resistance at $I_{LS} = 3A$, TPS7H4013, HTSSOP	$P_{VIN} = 4.5V$	$T_A = -55^{\circ}C$	3		20	31	m Ω	21.38
			$T_A = 25^{\circ}C$	1		28	39		
			$T_A = 125^{\circ}C$	2		41	50		
		$5V \leq P_{VIN} \leq 14V$	$T_A = -55^{\circ}C$	3		20	29	m Ω	21.41, 21.44, 21.47
			$T_A = 25^{\circ}C$	1		27	37		
			$T_A = 125^{\circ}C$	2		39	48		

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H4013-SP 4.5V to 14V Input 3A Radiation Hardened Synchronous Buck Converter](#), datasheet.
- Texas Instruments, [TPS7H4013-SP \(TPS7H4013EVM-CVAL\) Evaluation Module User's Guide](#), user's guide.

4.2 Reference Documents

Texas Instruments neutron irradiation test follows the guideline from MIL-STD-883 TM 1017. The document is available in the Defense Logistic Agency's website.

A Appendix: NDD Report Data

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

NCAT|HEADER/PIN/V_VIN/I_LOAD/R_RT/CONDITION/@SPEC_ID_PARM

Please reference [Table A-1](#) for an example implementation of this decoder.

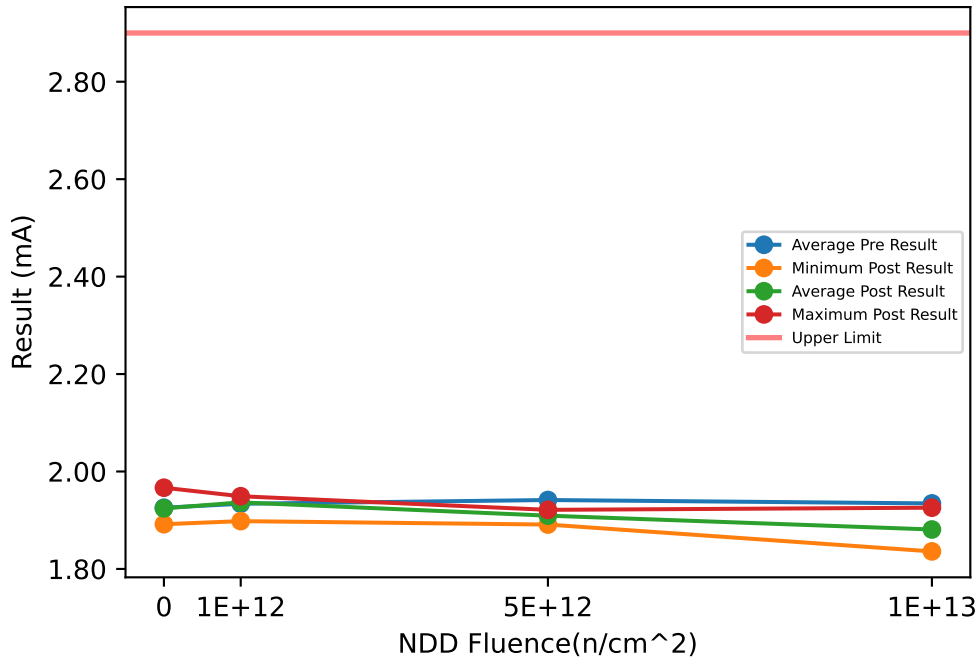
Table A-1. Decoder Implementation, Example Test: IDD|STATIC/VIN/14////@VIN_SHDN_CURR_14V

Test Category	Header	Pin Name	Input Voltage	Load Current	Frequency Set Resistor Value	Condition	Specification Identifier
IDD	STATIC	VIN	14V	N/A	N/A	N/A	@VIN_SHDN_CURR_14

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

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

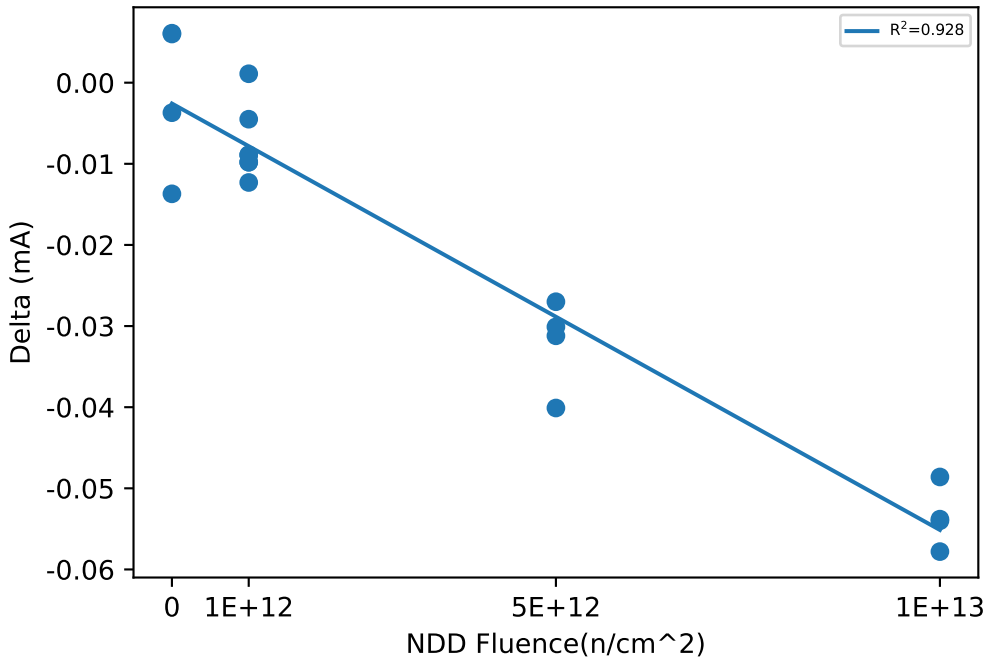
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.9581	1.9483	-0.0098
171	1e+12	NDD	1.897	1.8981	0.0011
269	1e+12	NDD	1.9258	1.9213	-0.0045
337	1e+12	NDD	1.9541	1.9418	-0.0123
357	5e+12	NDD	1.9473	1.9161	-0.0312
361	5e+12	NDD	1.949	1.9089	-0.0401
373	5e+12	NDD	1.9181	1.8911	-0.027
412	5e+12	NDD	1.9514	1.9213	-0.0301
470	1e+13	NDD	1.9487	1.9001	-0.0486
498	1e+13	NDD	1.916	1.862	-0.054
503	1e+13	NDD	1.8898	1.836	-0.0538
540	1e+13	NDD	1.9835	1.9257	-0.0578
553	0	CORRELATION	1.9055	1.8918	-0.0137
586	0	CORRELATION	1.9338	1.9301	-0.0037
634	0	CORRELATION	1.9026	1.9086	0.006
635	0	CORRELATION	1.9606	1.9667	0.0061

NDD vs Post - Pre Exposure Delta

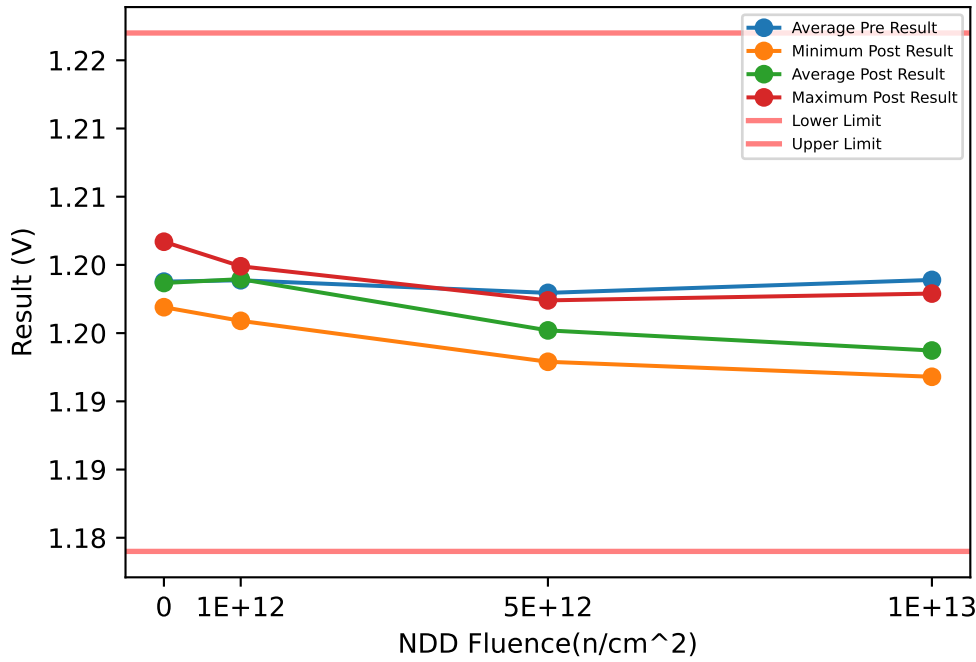


Test Statistics (mA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.9026	1.9256	1.9606	0.027235	1.8918	1.9243	1.9667	0.032322	-0.0137	-0.001325	0.0061	0.009444
1e+12	1.897	1.9337	1.9581	0.028407	1.8981	1.9274	1.9483	0.022656	-0.0123	-0.006375	0.0011	0.0059506
5e+12	1.9181	1.9415	1.9514	0.015657	1.8911	1.9093	1.9213	0.013186	-0.0401	-0.0321	-0.027	0.005622
1e+13	1.8898	1.9345	1.9835	0.040591	1.836	1.8809	1.9257	0.039786	-0.0578	-0.05355	-0.0486	0.0037784

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

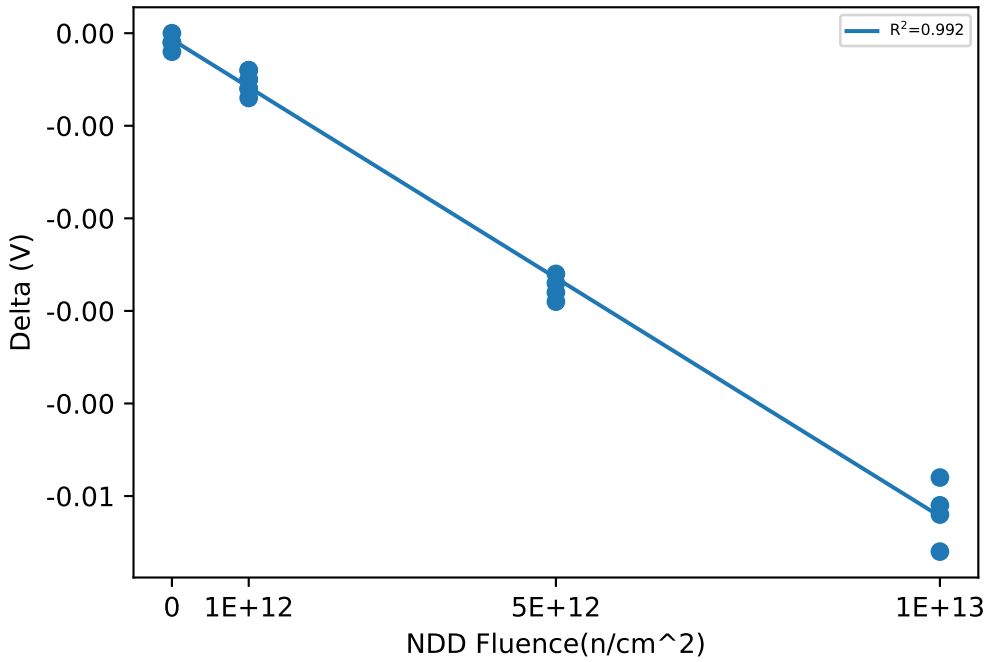
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.2053	1.2048	-0.0005
171	1e+12	NDD	1.2045	1.2038	-0.0007
269	1e+12	NDD	1.2015	1.2009	-0.0006
337	1e+12	NDD	1.2042	1.2036	-0.0006
357	5e+12	NDD	1.2035	1.2007	-0.0028
361	5e+12	NDD	1.2025	1.1998	-0.0027
373	5e+12	NDD	1.2008	1.1979	-0.0029
412	5e+12	NDD	1.205	1.2024	-0.0026
470	1e+13	NDD	1.2022	1.1971	-0.0051
498	1e+13	NDD	1.2037	1.1981	-0.0056
503	1e+13	NDD	1.202	1.1968	-0.0052
540	1e+13	NDD	1.2077	1.2029	-0.0048
553	0	CORRELATION	1.2026	1.2025	-0.0001
586	0	CORRELATION	1.2021	1.2019	-0.0002
634	0	CORRELATION	1.2067	1.2067	0
635	0	CORRELATION	1.2037	1.2036	-0.0001

NDD vs Post - Pre Exposure Delta

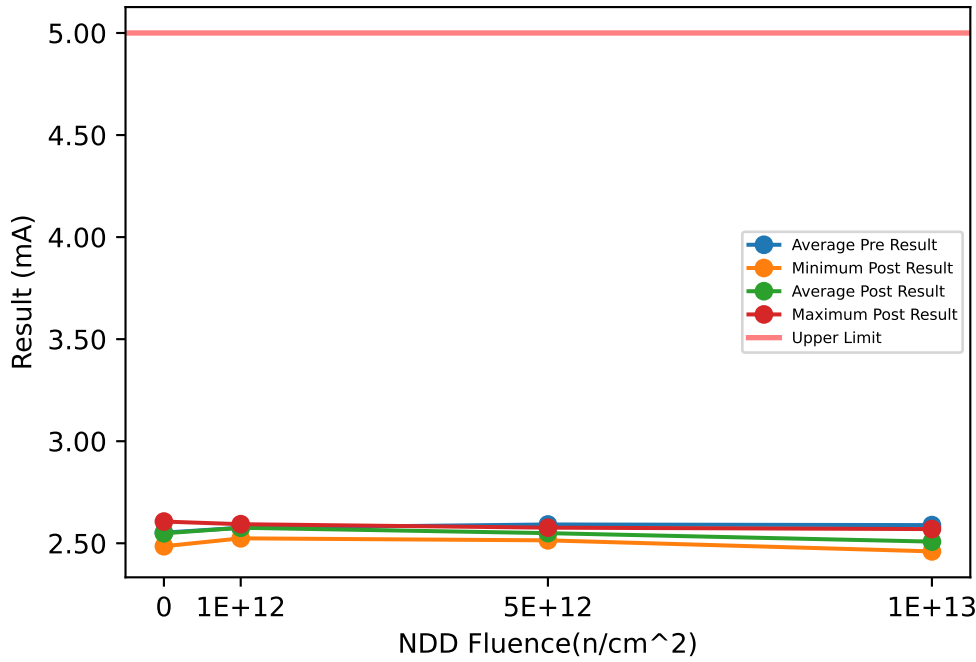


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2021	1.2038	1.2067	0.0020614	1.2019	1.2037	1.2067	0.002136	-0.0002	-0.0001	0	8.165e-05
1e+12	1.2015	1.2039	1.2053	0.00165	1.2009	1.2033	1.2048	0.0016681	-0.0007	-0.0006	-0.0005	8.165e-05
5e+12	1.2008	1.2029	1.205	0.0017635	1.1979	1.2002	1.2024	0.0018744	-0.0029	-0.00275	-0.0026	0.0001291
1e+13	1.202	1.2039	1.2077	0.0026445	1.1968	1.1987	1.2029	0.0028383	-0.0056	-0.005175	-0.0048	0.0003304

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

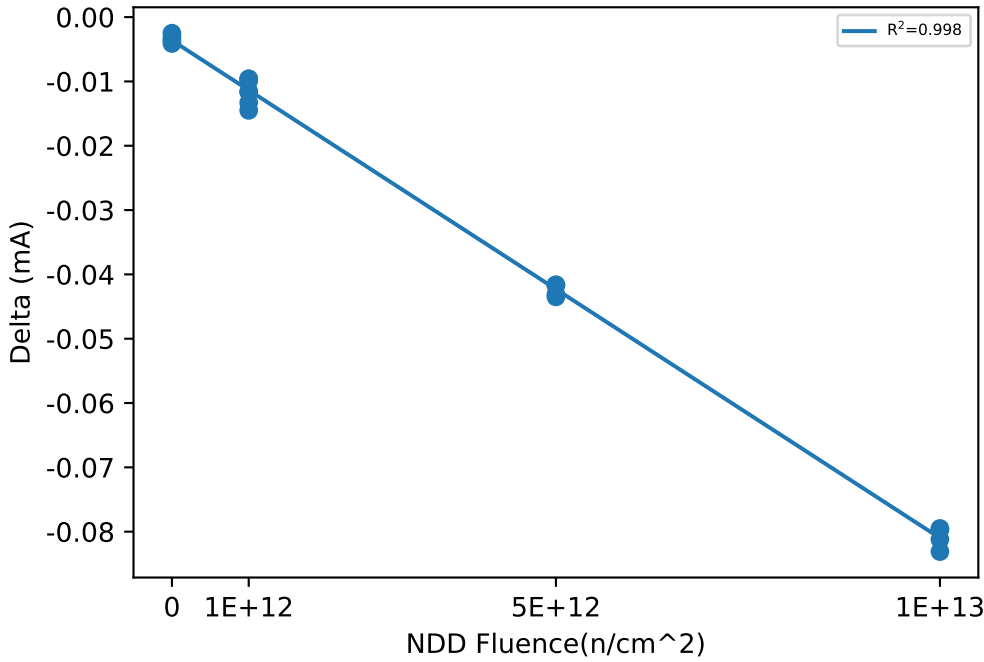
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	2.6031	2.5915	-0.0116
171	1e+12	NDD	2.5375	2.5242	-0.0133
269	1e+12	NDD	2.5717	2.5618	-0.0099
337	1e+12	NDD	2.5906	2.5761	-0.0145
357	5e+12	NDD	2.6181	2.5764	-0.0417
361	5e+12	NDD	2.5826	2.5391	-0.0435
373	5e+12	NDD	2.5559	2.5143	-0.0416
412	5e+12	NDD	2.612	2.5689	-0.0431
470	1e+13	NDD	2.6014	2.5217	-0.0797
498	1e+13	NDD	2.5624	2.4812	-0.0812
503	1e+13	NDD	2.5397	2.4602	-0.0795
540	1e+13	NDD	2.6526	2.5695	-0.0831
553	0	CORRELATION	2.4891	2.4854	-0.0037
586	0	CORRELATION	2.5791	2.575	-0.0041
634	0	CORRELATION	2.5312	2.528	-0.0032
635	0	CORRELATION	2.6089	2.6064	-0.0025

NDD vs Post - Pre Exposure Delta

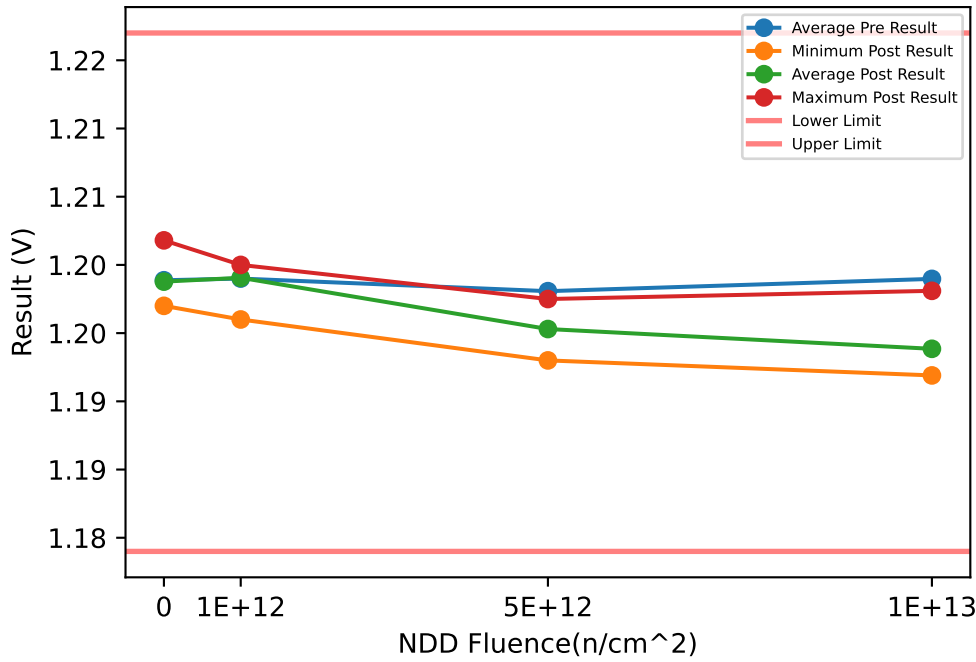


Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.4891	2.5521	2.6089	0.052792	2.4854	2.5487	2.6064	0.053092	-0.0041	-0.003375	-0.0025	0.00068981
1e+12	2.5375	2.5757	2.6031	0.028566	2.5242	2.5634	2.5915	0.02881	-0.0145	-0.012325	-0.0099	0.0020073
5e+12	2.5559	2.5922	2.6181	0.028709	2.5143	2.5497	2.5764	0.02856	-0.0435	-0.042475	-0.0416	0.00096738
1e+13	2.5397	2.589	2.6526	0.049453	2.4602	2.5082	2.5695	0.048211	-0.0831	-0.080875	-0.0795	0.0016661

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

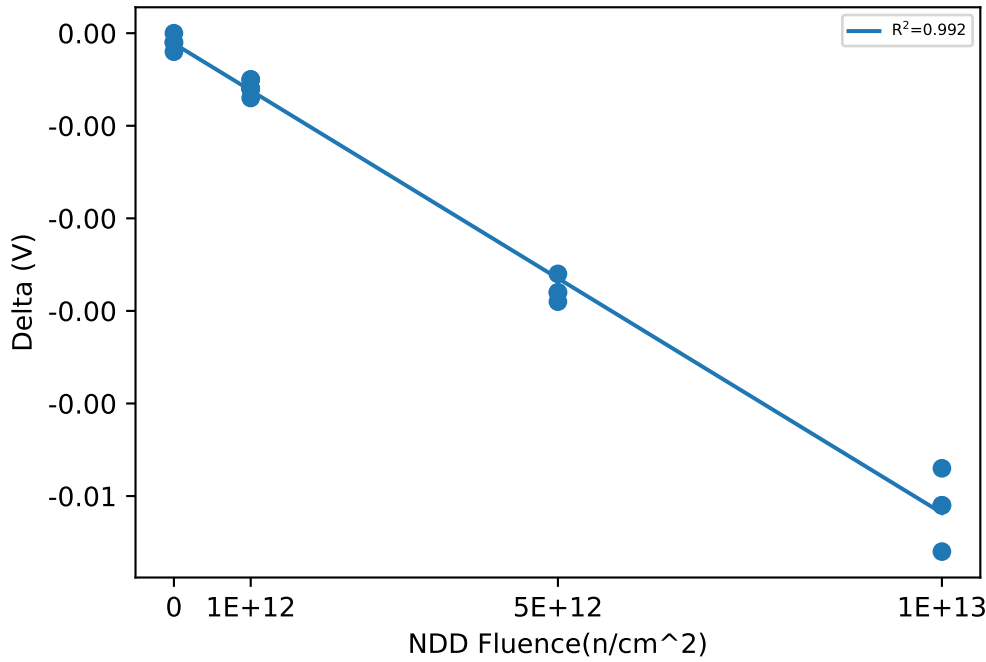
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.2055	1.2049	-0.0006
171	1e+12	NDD	1.2046	1.2039	-0.0007
269	1e+12	NDD	1.2016	1.201	-0.0006
337	1e+12	NDD	1.2043	1.2037	-0.0006
357	5e+12	NDD	1.2036	1.2008	-0.0028
361	5e+12	NDD	1.2027	1.1999	-0.0028
373	5e+12	NDD	1.2009	1.198	-0.0029
412	5e+12	NDD	1.2051	1.2025	-0.0026
470	1e+13	NDD	1.2023	1.1972	-0.0051
498	1e+13	NDD	1.2038	1.1982	-0.0056
503	1e+13	NDD	1.202	1.1969	-0.0051
540	1e+13	NDD	1.2078	1.2031	-0.0047
553	0	CORRELATION	1.2027	1.2026	-0.0001
586	0	CORRELATION	1.2022	1.202	-0.0002
634	0	CORRELATION	1.2068	1.2068	0
635	0	CORRELATION	1.2038	1.2037	-0.0001

NDD vs Post - Pre Exposure Delta

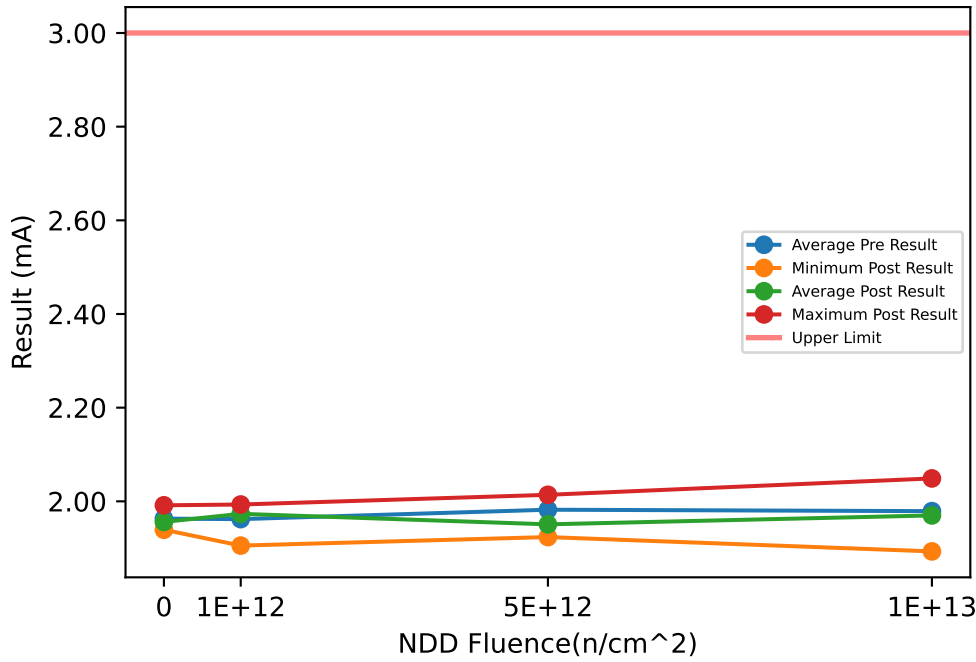


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2022	1.2039	1.2068	0.0020614	1.202	1.2038	1.2068	0.002136	-0.0002	-0.0001	0	8.165e-05
1e+12	1.2016	1.204	1.2055	0.0016793	1.201	1.2034	1.2049	0.0016681	-0.0007	-0.000625	-0.0006	5e-05
5e+12	1.2009	1.2031	1.2051	0.0017557	1.198	1.2003	1.2025	0.0018744	-0.0029	-0.002775	-0.0026	0.00012583
1e+13	1.202	1.204	1.2078	0.0026688	1.1969	1.1988	1.2031	0.0028873	-0.0056	-0.005125	-0.0047	0.00036856

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

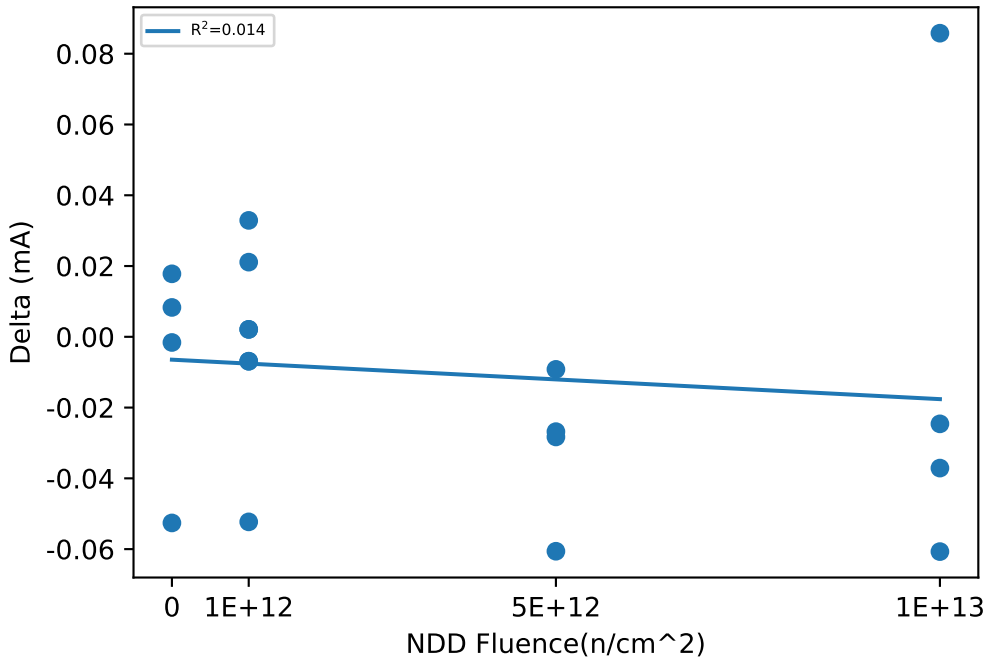
NDD vs Result Stats



Test Results (Upper Limit = 3.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.9911	1.9932	0.0021
171	1e+12	NDD	1.9578	1.9055	-0.0523
269	1e+12	NDD	1.9335	1.9664	0.0329
337	1e+12	NDD	1.9657	1.9868	0.0211
357	5e+12	NDD	2.0231	2.0139	-0.0092
361	5e+12	NDD	1.9879	1.9273	-0.0606
373	5e+12	NDD	1.9505	1.9237	-0.0268
412	5e+12	NDD	1.9669	1.9386	-0.0283
470	1e+13	NDD	2.0291	1.9684	-0.0607
498	1e+13	NDD	1.9631	2.0489	0.0858
503	1e+13	NDD	1.9302	1.8931	-0.0371
540	1e+13	NDD	1.9938	1.9692	-0.0246
553	0	CORRELATION	1.931	1.9393	0.0083
586	0	CORRELATION	1.997	1.9444	-0.0526
634	0	CORRELATION	1.9505	1.9489	-0.0016
635	0	CORRELATION	1.9737	1.9915	0.0178

NDD vs Post - Pre Exposure Delta

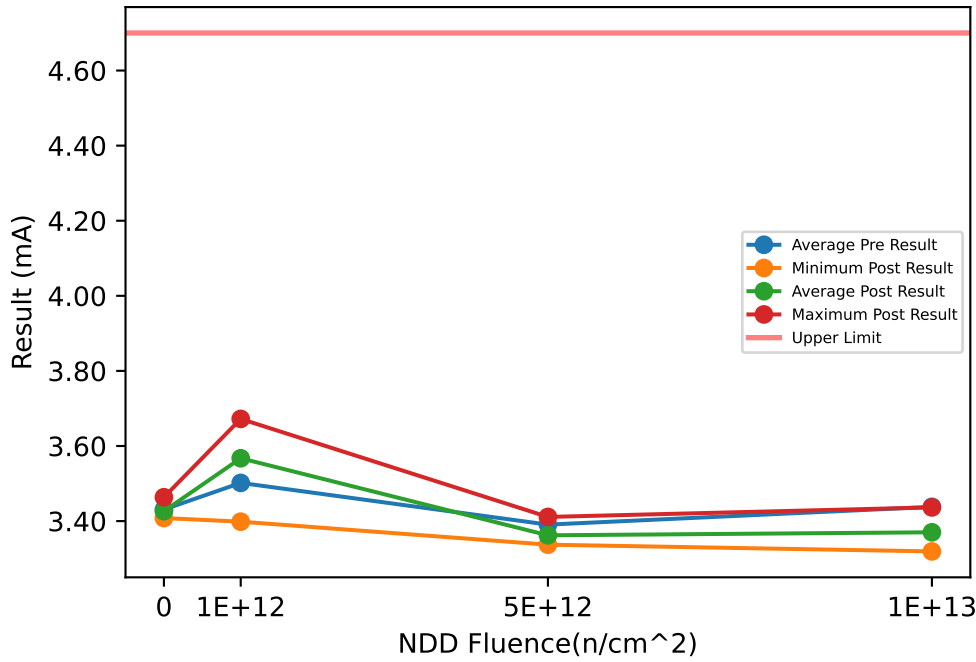


Test Statistics (mA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.931	1.963	1.997	0.028582	1.9393	1.956	1.9915	0.023973	-0.0526	-0.007025	0.0178	0.031399
1e+12	1.9335	1.962	1.9911	0.023737	1.9055	1.963	1.9932	0.039985	-0.0523	0.00095	0.0329	0.037699
5e+12	1.9505	1.9821	2.0231	0.031328	1.9237	1.9509	2.0139	0.042493	-0.0606	-0.031225	-0.0092	0.021417
1e+13	1.9302	1.979	2.0291	0.042282	1.8931	1.9699	2.0489	0.063619	-0.0607	-0.00915	0.0858	0.065046

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

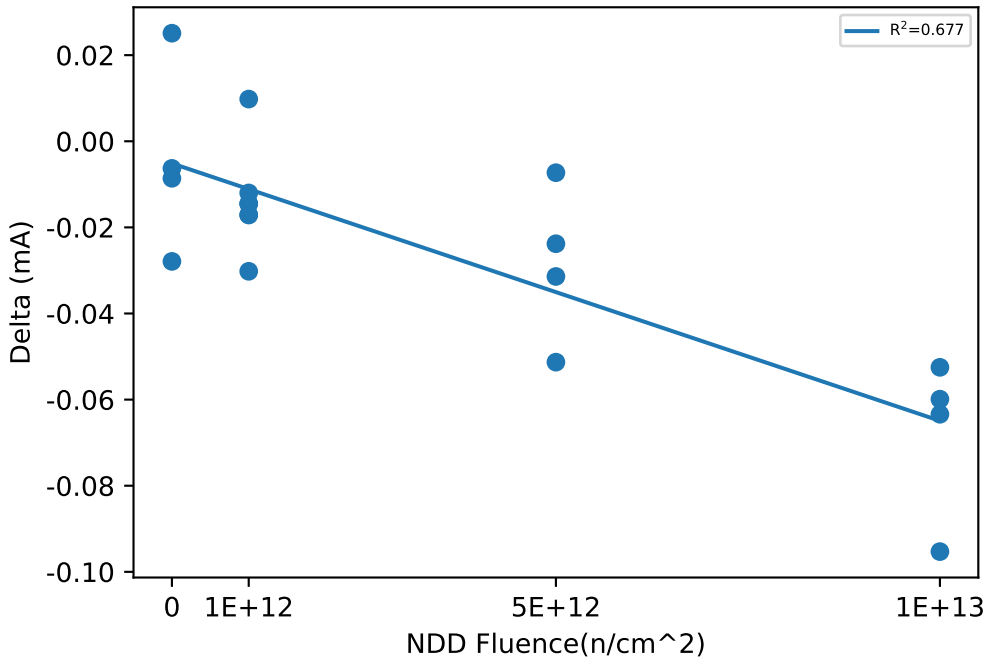
NDD vs Result Stats



Test Results (Upper Limit = 4.7 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.6867	3.6696	-0.0171
171	1e+12	NDD	3.4606	3.4704	0.0098
269	1e+12	NDD	3.4309	3.4189	-0.012
337	1e+12	NDD	3.4287	3.3985	-0.0302
357	5e+12	NDD	3.3796	3.3558	-0.0238
361	5e+12	NDD	3.3519	3.3446	-0.0073
373	5e+12	NDD	3.3686	3.3372	-0.0314
412	5e+12	NDD	3.4624	3.4111	-0.0513
470	1e+13	NDD	3.3827	3.3193	-0.0634
498	1e+13	NDD	3.4518	3.3993	-0.0525
503	1e+13	NDD	3.3855	3.3256	-0.0599
540	1e+13	NDD	3.5318	3.4365	-0.0953
553	0	CORRELATION	3.4144	3.4081	-0.0063
586	0	CORRELATION	3.3857	3.4108	0.0251
634	0	CORRELATION	3.4722	3.4636	-0.0086
635	0	CORRELATION	3.451	3.4231	-0.0279

NDD vs Post - Pre Exposure Delta

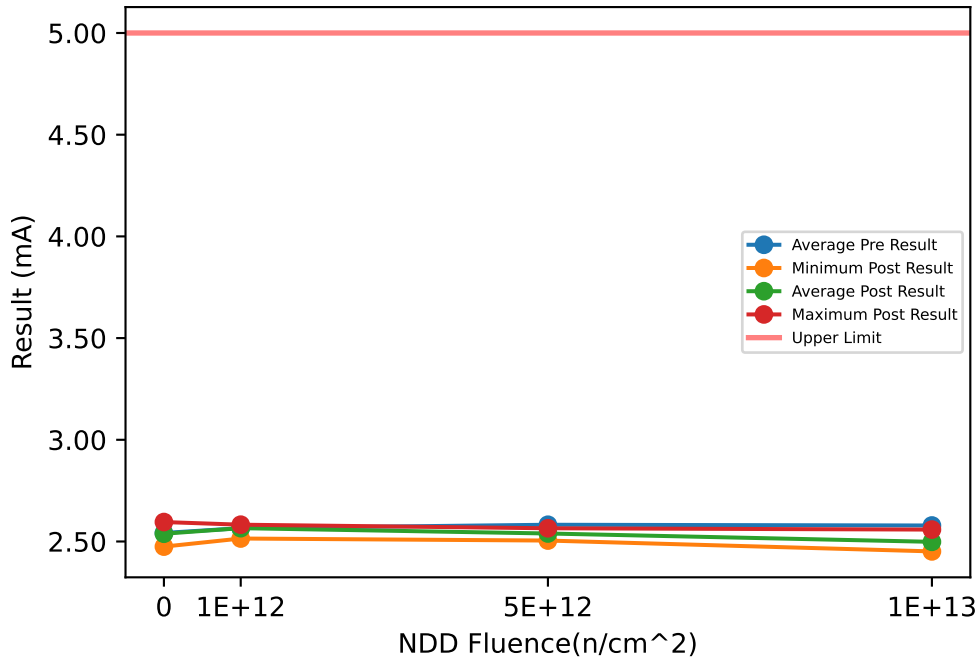


Test Statistics (mA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.3857	3.4308	3.4722	0.038406	3.4081	3.4264	3.4636	0.025645	-0.0279	-0.004425	0.0251	0.021937
1e+12	3.4287	3.5017	3.6867	0.12417	3.3985	3.4893	3.6696	0.12392	-0.0302	-0.012375	0.0098	0.016653
5e+12	3.3519	3.3906	3.4624	0.049186	3.3372	3.3622	3.4111	0.033501	-0.0513	-0.02845	-0.0073	0.018255
1e+13	3.3827	3.4379	3.5318	0.070245	3.3193	3.3702	3.4365	0.05722	-0.0953	-0.067775	-0.0525	0.018904

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

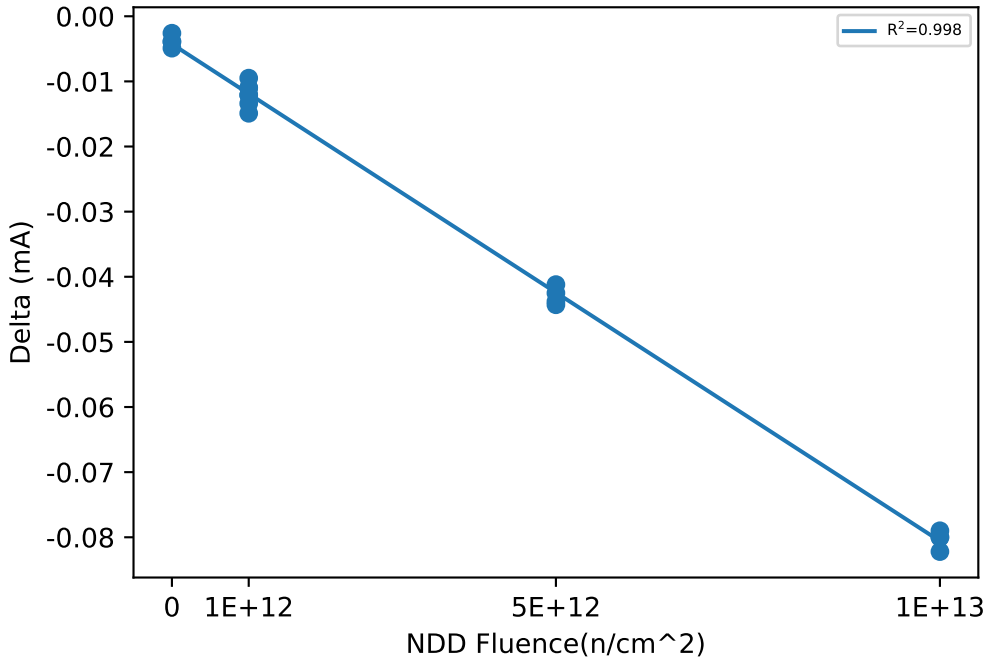
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	2.5936	2.5815	-0.0121
171	1e+12	NDD	2.528	2.5146	-0.0134
269	1e+12	NDD	2.5607	2.5512	-0.0095
337	1e+12	NDD	2.5797	2.5648	-0.0149
357	5e+12	NDD	2.6075	2.565	-0.0425
361	5e+12	NDD	2.5736	2.5298	-0.0438
373	5e+12	NDD	2.5458	2.5046	-0.0412
412	5e+12	NDD	2.6023	2.558	-0.0443
470	1e+13	NDD	2.5909	2.5119	-0.079
498	1e+13	NDD	2.5518	2.4718	-0.08
503	1e+13	NDD	2.5313	2.4513	-0.08
540	1e+13	NDD	2.6407	2.5585	-0.0822
553	0	CORRELATION	2.4787	2.4748	-0.0039
586	0	CORRELATION	2.5699	2.565	-0.0049
634	0	CORRELATION	2.5212	2.5173	-0.0039
635	0	CORRELATION	2.5982	2.5956	-0.0026

NDD vs Post - Pre Exposure Delta

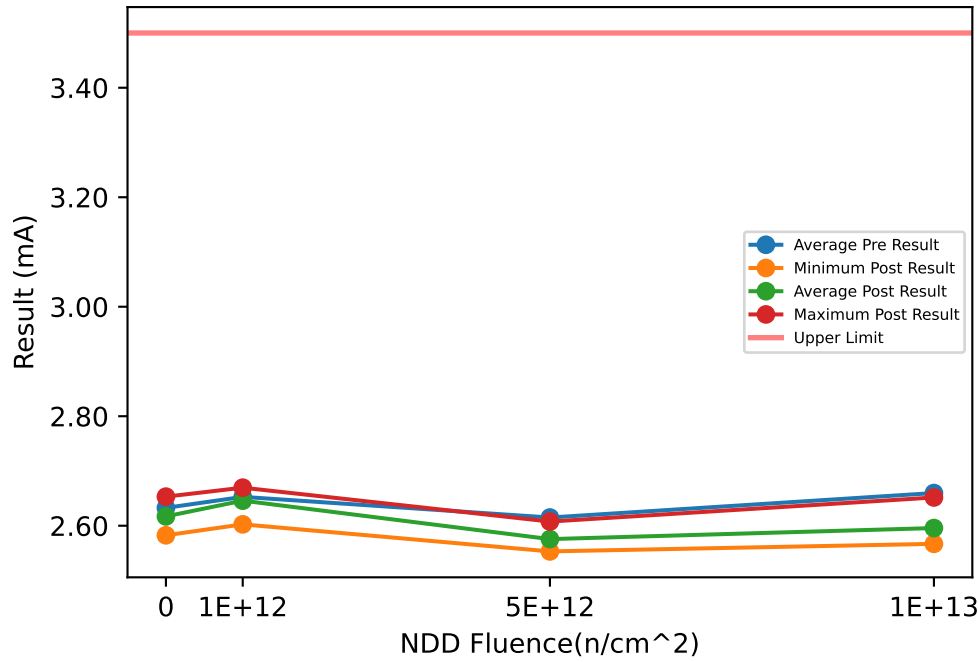


Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.4787	2.542	2.5982	0.052841	2.4748	2.5382	2.5956	0.053133	-0.0049	-0.003825	-0.0026	0.00094296
1e+12	2.528	2.5655	2.5936	0.028405	2.5146	2.553	2.5815	0.028456	-0.0149	-0.012475	-0.0095	0.0022897
5e+12	2.5458	2.5823	2.6075	0.028536	2.5046	2.5393	2.565	0.027716	-0.0443	-0.04295	-0.0412	0.0013916
1e+13	2.5313	2.5787	2.6407	0.048177	2.4513	2.4984	2.5585	0.047329	-0.0822	-0.0803	-0.079	0.0013515

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

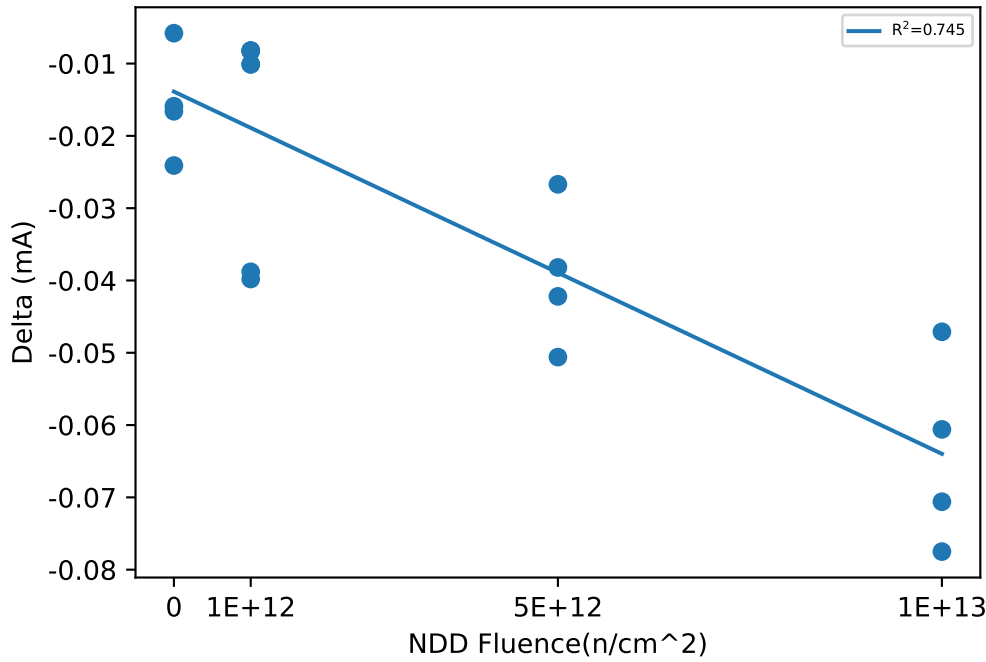
NDD vs Result Stats



Test Results (Upper Limit = 3.5 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	2.6777	2.6676	-0.0101
171	1e+12	NDD	2.6599	2.6201	-0.0398
269	1e+12	NDD	2.6413	2.6025	-0.0388
337	1e+12	NDD	2.6319	2.6236	-0.0083
357	5e+12	NDD	2.5835	2.5568	-0.0267
361	5e+12	NDD	2.6458	2.6076	-0.0382
373	5e+12	NDD	2.6353	2.5847	-0.0506
412	5e+12	NDD	2.5953	2.5531	-0.0422
470	1e+13	NDD	2.6275	2.5804	-0.0471
498	1e+13	NDD	2.6546	2.584	-0.0706
503	1e+13	NDD	2.6444	2.5669	-0.0775
540	1e+13	NDD	2.7122	2.6516	-0.0606
553	0	CORRELATION	2.6446	2.6388	-0.0058
586	0	CORRELATION	2.6066	2.5825	-0.0241
634	0	CORRELATION	2.6697	2.6531	-0.0166
635	0	CORRELATION	2.6096	2.5937	-0.0159

NDD vs Post - Pre Exposure Delta

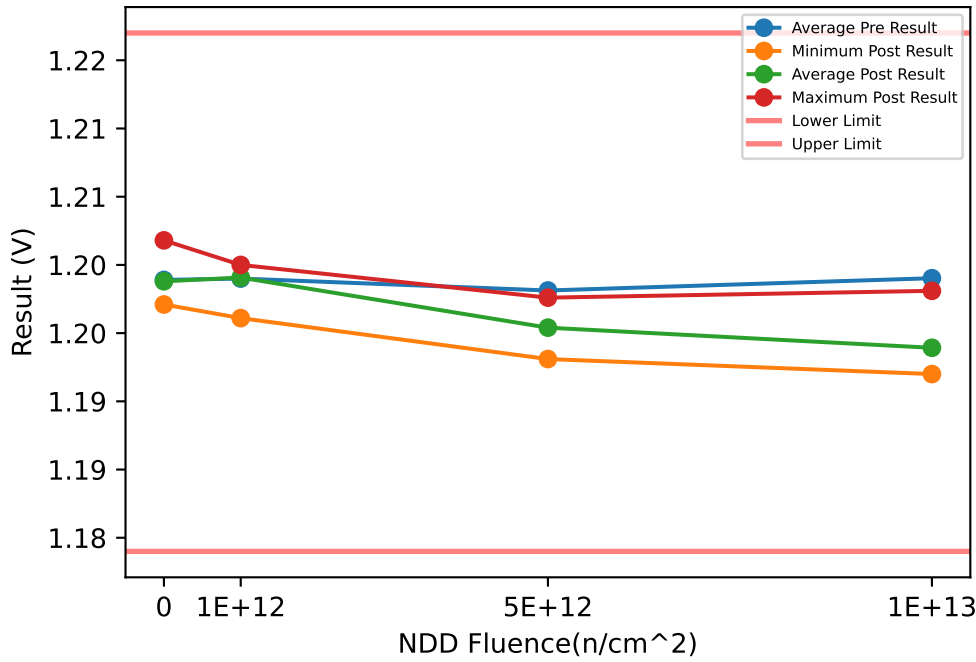


Test Statistics (mA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6066	2.6326	2.6697	0.030141	2.5825	2.617	2.6531	0.034213	-0.0241	-0.0156	-0.0058	0.007514
1e+12	2.6319	2.6527	2.6777	0.020326	2.6025	2.6284	2.6676	0.027685	-0.0398	-0.02425	-0.0083	0.017399
5e+12	2.5835	2.615	2.6458	0.030227	2.5531	2.5756	2.6076	0.025603	-0.0506	-0.039425	-0.0267	0.0099332
1e+13	2.6275	2.6597	2.7122	0.036757	2.5669	2.5957	2.6516	0.03797	-0.0775	-0.06395	-0.0471	0.013203

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

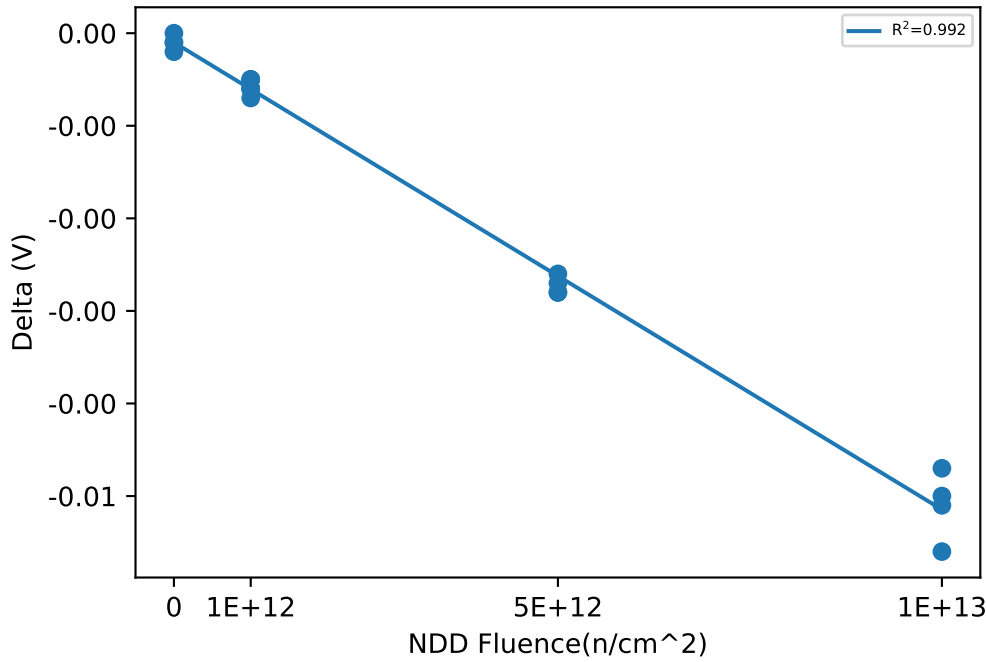
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.2055	1.2049	-0.0006
171	1e+12	NDD	1.2046	1.2039	-0.0007
269	1e+12	NDD	1.2016	1.2011	-0.0005
337	1e+12	NDD	1.2043	1.2037	-0.0006
357	5e+12	NDD	1.2037	1.2009	-0.0028
361	5e+12	NDD	1.2027	1.2	-0.0027
373	5e+12	NDD	1.2009	1.1981	-0.0028
412	5e+12	NDD	1.2052	1.2026	-0.0026
470	1e+13	NDD	1.2023	1.1973	-0.005
498	1e+13	NDD	1.2039	1.1983	-0.0056
503	1e+13	NDD	1.2021	1.197	-0.0051
540	1e+13	NDD	1.2078	1.2031	-0.0047
553	0	CORRELATION	1.2027	1.2026	-0.0001
586	0	CORRELATION	1.2022	1.2021	-0.0001
634	0	CORRELATION	1.2068	1.2068	0
635	0	CORRELATION	1.2039	1.2037	-0.0002

NDD vs Post - Pre Exposure Delta

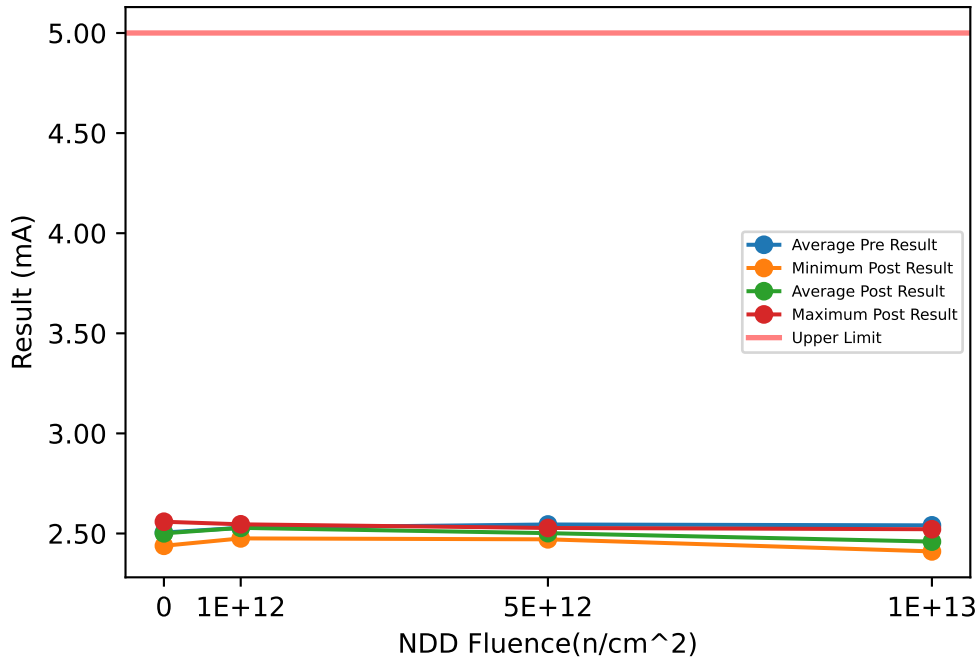


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2022	1.2039	1.2068	0.0020607	1.2021	1.2038	1.2068	0.0021087	-0.0002	-0.0001	0	8.165e-05
1e+12	1.2016	1.204	1.2055	0.0016793	1.2011	1.2034	1.2049	0.0016207	-0.0007	-0.0006	-0.0005	8.165e-05
5e+12	1.2009	1.2031	1.2052	0.0018044	1.1981	1.2004	1.2026	0.0018744	-0.0028	-0.002725	-0.0026	9.5743e-05
1e+13	1.2021	1.204	1.2078	0.0026424	1.197	1.1989	1.2031	0.0028383	-0.0056	-0.0051	-0.0047	0.00037417

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

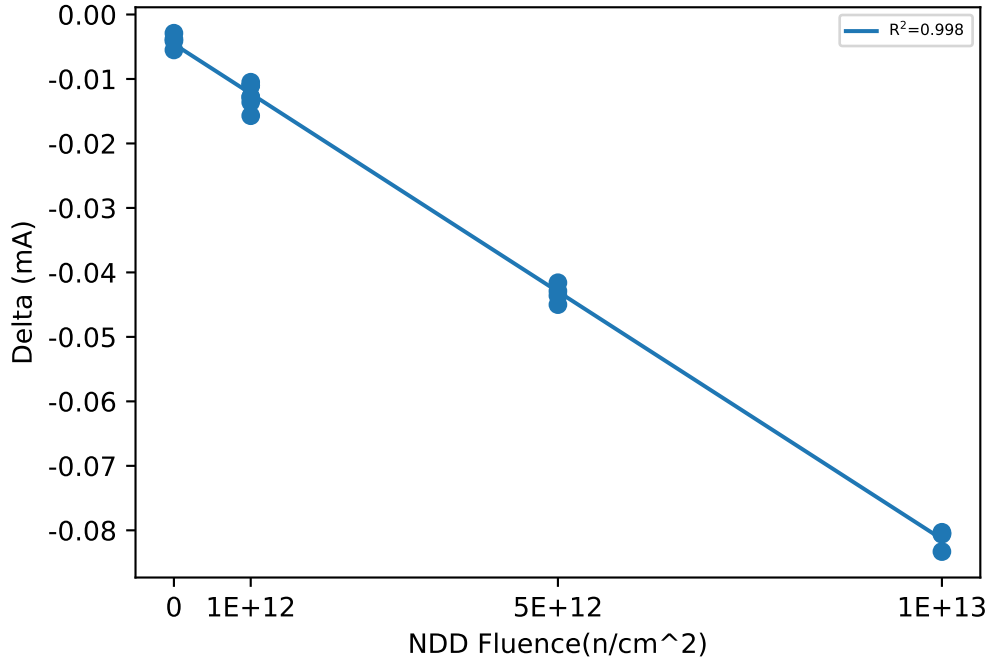
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	2.5569	2.5441	-0.0128
171	1e+12	NDD	2.4891	2.4755	-0.0136
269	1e+12	NDD	2.5237	2.5132	-0.0105
337	1e+12	NDD	2.5438	2.5281	-0.0157
357	5e+12	NDD	2.5705	2.5276	-0.0429
361	5e+12	NDD	2.5328	2.4892	-0.0436
373	5e+12	NDD	2.5125	2.4709	-0.0416
412	5e+12	NDD	2.5645	2.5195	-0.045
470	1e+13	NDD	2.5533	2.4727	-0.0806
498	1e+13	NDD	2.5143	2.4338	-0.0805
503	1e+13	NDD	2.4909	2.4106	-0.0803
540	1e+13	NDD	2.6046	2.5213	-0.0833
553	0	CORRELATION	2.4427	2.4386	-0.0041
586	0	CORRELATION	2.5341	2.5286	-0.0055
634	0	CORRELATION	2.4809	2.4771	-0.0038
635	0	CORRELATION	2.5617	2.5588	-0.0029

NDD vs Post - Pre Exposure Delta

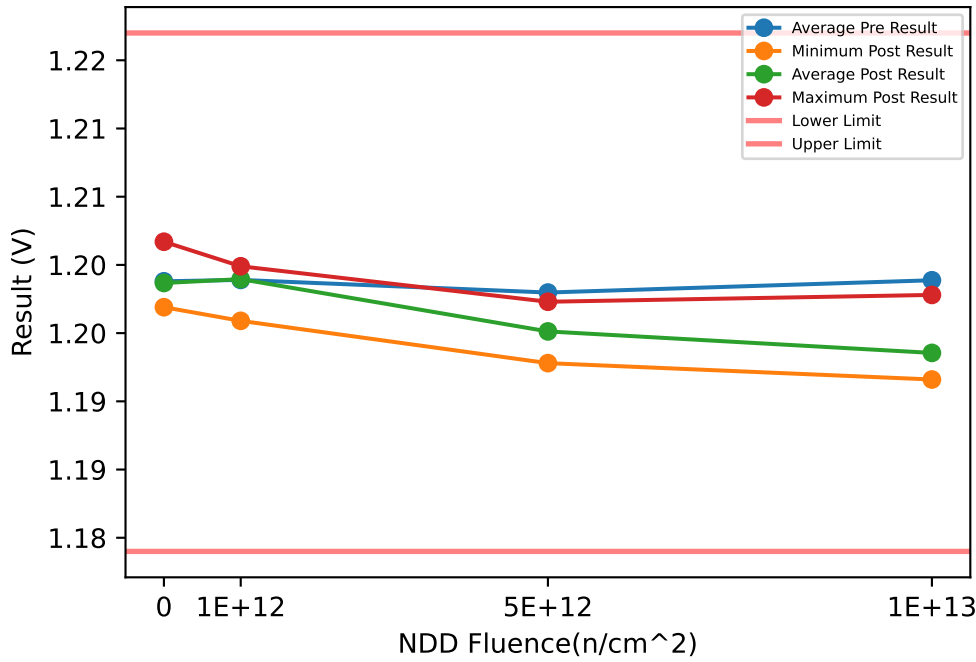


Test Statistics (mA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.4427	2.5049	2.5617	0.053303	2.4386	2.5008	2.5588	0.05344	-0.0055	-0.004075	-0.0029	0.0010782
1e+12	2.4891	2.5284	2.5569	0.02953	2.4755	2.5152	2.5441	0.029335	-0.0157	-0.01315	-0.0105	0.0021486
5e+12	2.5125	2.5451	2.5705	0.027298	2.4709	2.5018	2.5276	0.02641	-0.045	-0.043275	-0.0416	0.0014175
1e+13	2.4909	2.5408	2.6046	0.049729	2.4106	2.4596	2.5213	0.04846	-0.0833	-0.081175	-0.0803	0.0014221

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

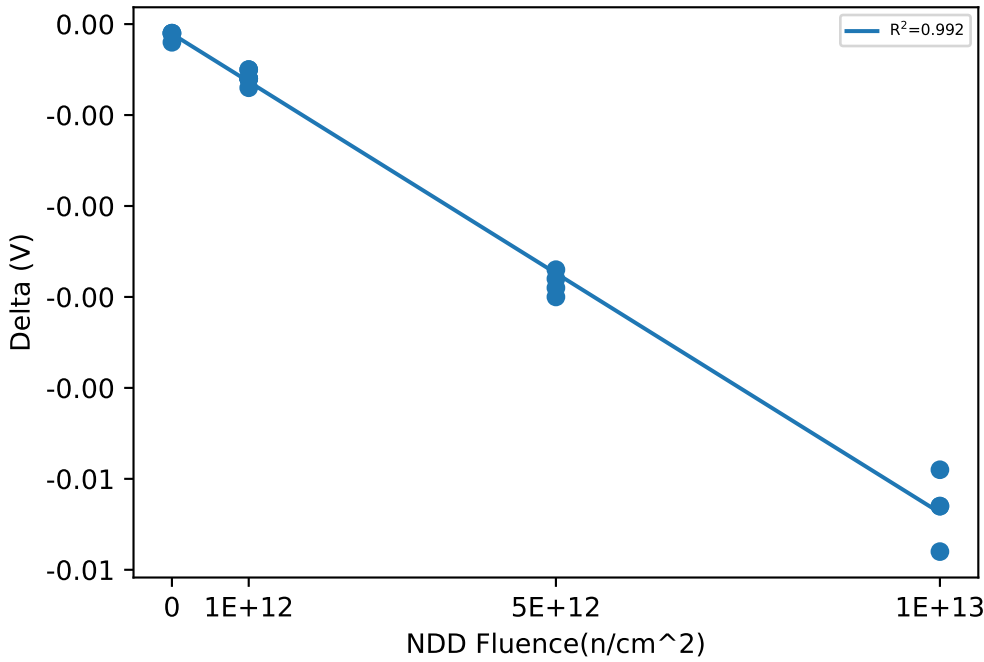
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.2054	1.2048	-0.0006
171	1e+12	NDD	1.2045	1.2038	-0.0007
269	1e+12	NDD	1.2015	1.2009	-0.0006
337	1e+12	NDD	1.2042	1.2036	-0.0006
357	5e+12	NDD	1.2035	1.2007	-0.0028
361	5e+12	NDD	1.2026	1.1997	-0.0029
373	5e+12	NDD	1.2008	1.1978	-0.003
412	5e+12	NDD	1.205	1.2023	-0.0027
470	1e+13	NDD	1.2022	1.1969	-0.0053
498	1e+13	NDD	1.2037	1.1979	-0.0058
503	1e+13	NDD	1.2019	1.1966	-0.0053
540	1e+13	NDD	1.2077	1.2028	-0.0049
553	0	CORRELATION	1.2026	1.2025	-0.0001
586	0	CORRELATION	1.2021	1.2019	-0.0002
634	0	CORRELATION	1.2068	1.2067	-0.0001
635	0	CORRELATION	1.2037	1.2036	-0.0001

NDD vs Post - Pre Exposure Delta

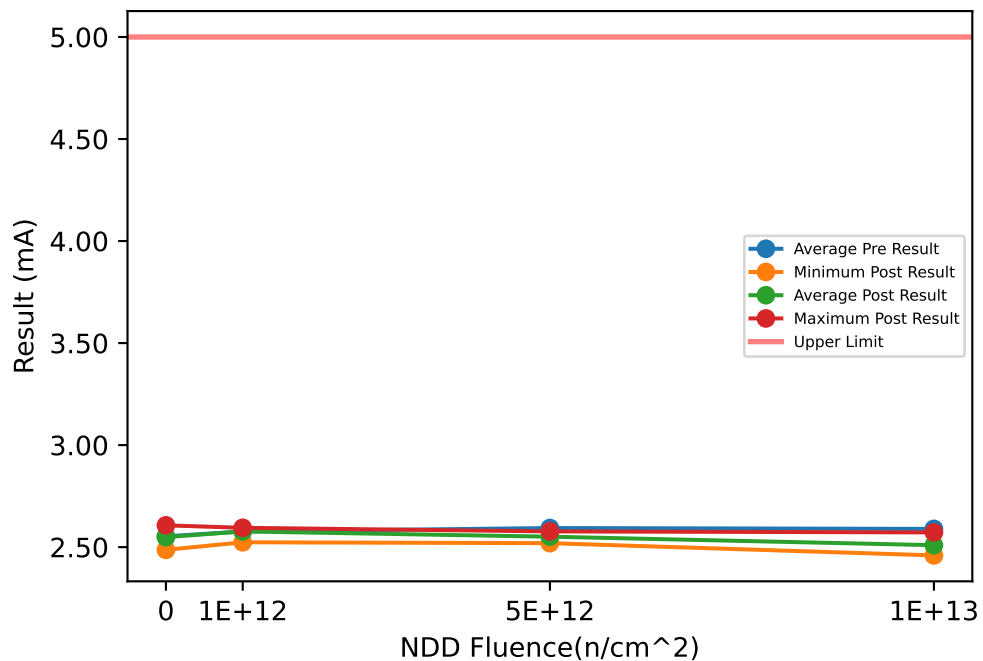


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2021	1.2038	1.2068	0.0021087	1.2019	1.2037	1.2067	0.002136	-0.0002	-0.000125	-0.0001	5e-05
1e+12	1.2015	1.2039	1.2054	0.0016793	1.2009	1.2033	1.2048	0.0016681	-0.0007	-0.000625	-0.0006	5e-05
5e+12	1.2008	1.203	1.205	0.0017557	1.1978	1.2001	1.2023	0.0018839	-0.003	-0.00285	-0.0027	0.0001291
1e+13	1.2019	1.2039	1.2077	0.0026688	1.1966	1.1986	1.2028	0.0028873	-0.0058	-0.005325	-0.0049	0.00036856

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

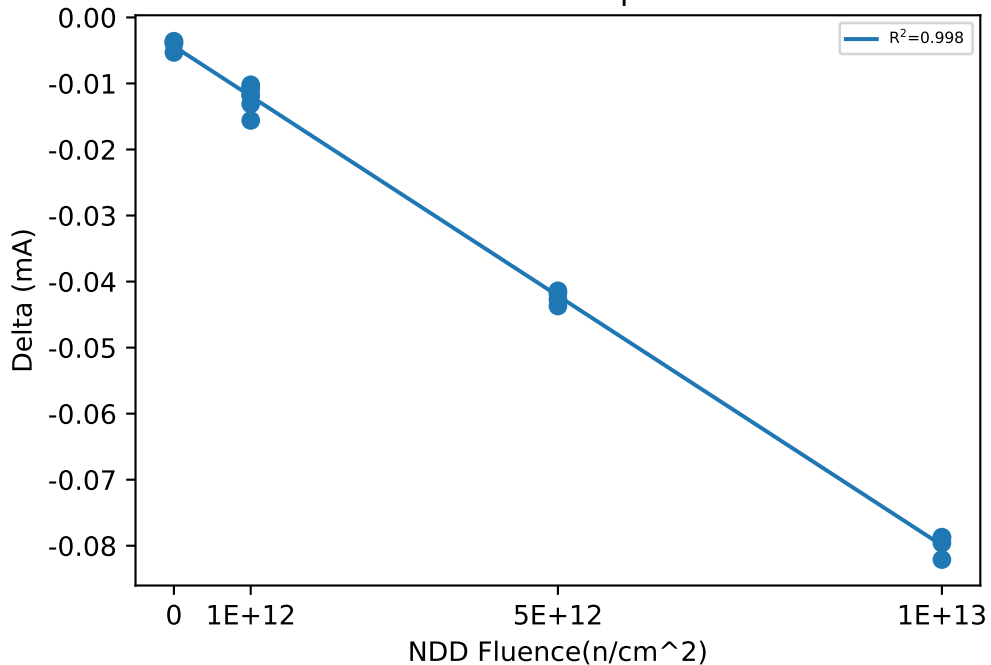
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	2.6054	2.5936	-0.0118
171	1e+12	NDD	2.5369	2.5238	-0.0131
269	1e+12	NDD	2.5723	2.5621	-0.0102
337	1e+12	NDD	2.5922	2.5766	-0.0156
357	5e+12	NDD	2.6189	2.5771	-0.0418
361	5e+12	NDD	2.5811	2.5384	-0.0427
373	5e+12	NDD	2.5609	2.5195	-0.0414
412	5e+12	NDD	2.6135	2.5698	-0.0437
470	1e+13	NDD	2.6016	2.5229	-0.0787
498	1e+13	NDD	2.5626	2.4838	-0.0788
503	1e+13	NDD	2.5391	2.4595	-0.0796
540	1e+13	NDD	2.6542	2.5721	-0.0821
553	0	CORRELATION	2.4904	2.4867	-0.0037
586	0	CORRELATION	2.5825	2.5772	-0.0053
634	0	CORRELATION	2.5289	2.5249	-0.004
635	0	CORRELATION	2.6104	2.6068	-0.0036

NDD vs Post - Pre Exposure Delta

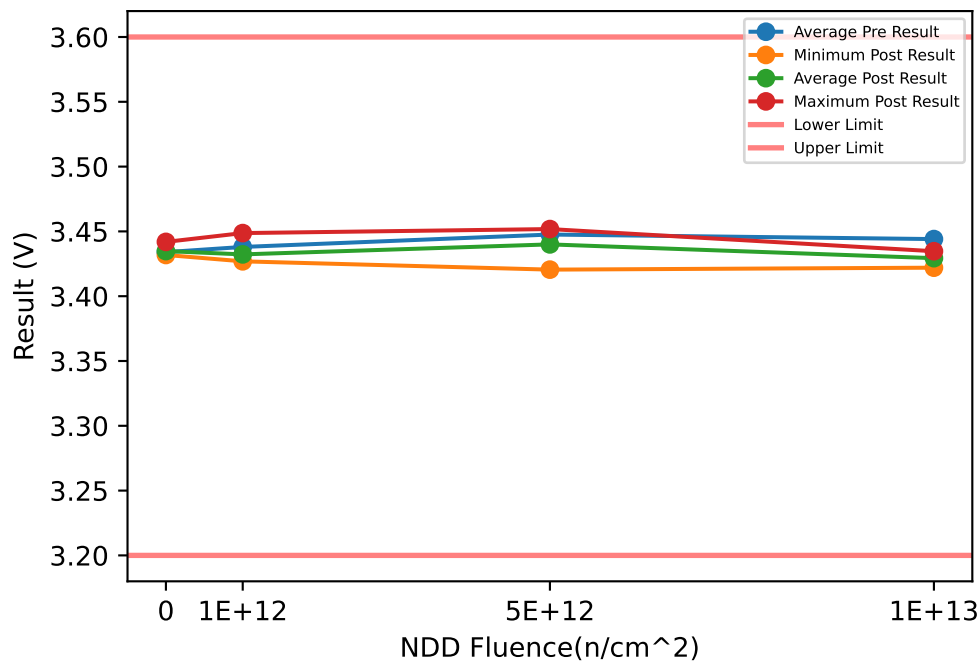


Test Statistics (mA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.4904	2.553	2.6104	0.053742	2.4867	2.5489	2.6068	0.053535	-0.0053	-0.00415	-0.0036	0.00078528
1e+12	2.5369	2.5767	2.6054	0.029818	2.5238	2.564	2.5936	0.029747	-0.0156	-0.012675	-0.0102	0.0022824
5e+12	2.5609	2.5936	2.6189	0.027457	2.5195	2.5512	2.5771	0.026991	-0.0437	-0.0424	-0.0414	0.0010231
1e+13	2.5391	2.5894	2.6542	0.05032	2.4595	2.5096	2.5721	0.049189	-0.0821	-0.0798	-0.0787	0.0015853

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

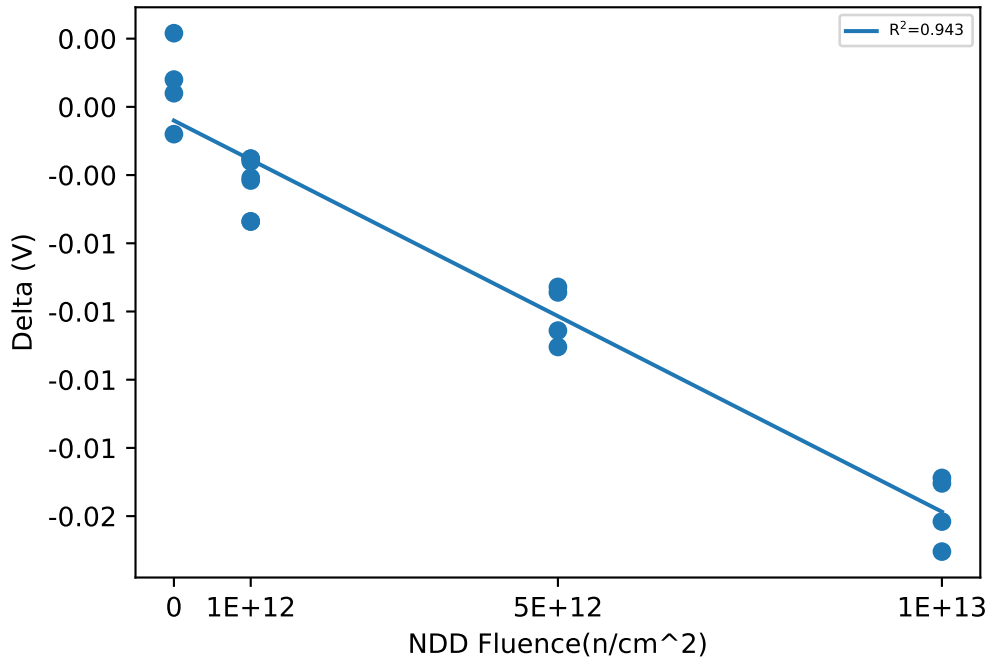
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.4311	3.4269	-0.0042
171	1e+12	NDD	3.4513	3.4487	-0.0026
269	1e+12	NDD	3.4318	3.4298	-0.002
337	1e+12	NDD	3.4378	3.4351	-0.0027
357	5e+12	NDD	3.4584	3.4496	-0.0088
361	5e+12	NDD	3.4448	3.438	-0.0068
373	5e+12	NDD	3.46	3.4518	-0.0082
412	5e+12	NDD	3.4271	3.4205	-0.0066
470	1e+13	NDD	3.4499	3.4347	-0.0152
498	1e+13	NDD	3.4457	3.4321	-0.0136
503	1e+13	NDD	3.4383	3.422	-0.0163
540	1e+13	NDD	3.4424	3.4286	-0.0138
553	0	CORRELATION	3.4392	3.4419	0.0027
586	0	CORRELATION	3.4308	3.4318	0.001
634	0	CORRELATION	3.4337	3.4327	-0.001
635	0	CORRELATION	3.4323	3.4328	0.0005

NDD vs Post - Pre Exposure Delta

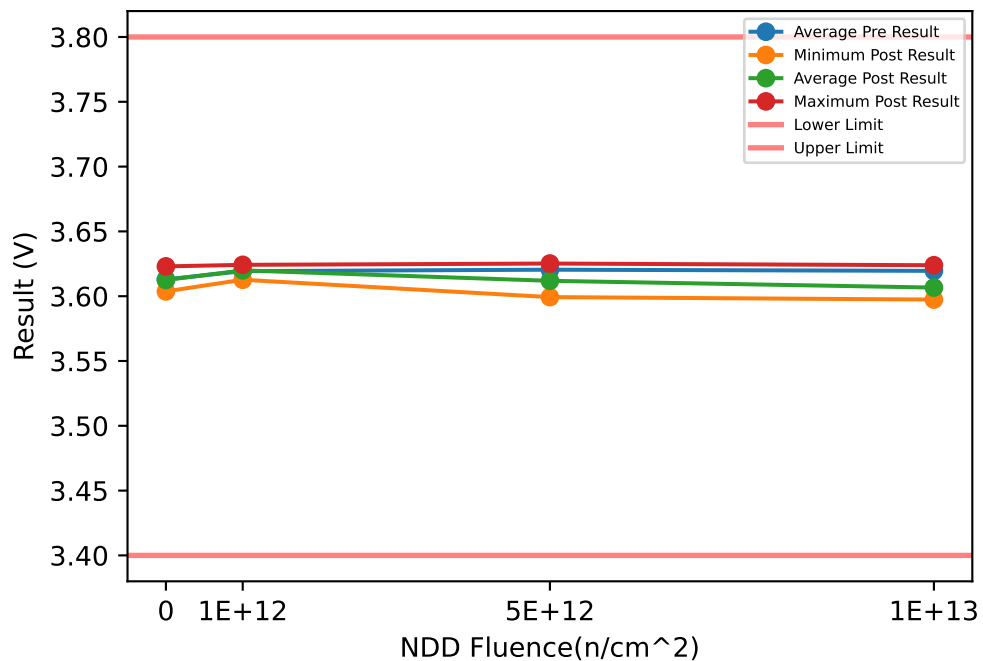


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4308	3.434	3.4392	0.0036633	3.4318	3.4348	3.4419	0.0047546	-0.001	0.0008	0.0027	0.0015253
1e+12	3.4311	3.438	3.4513	0.0093627	3.4269	3.4351	3.4487	0.0096659	-0.0042	-0.002875	-0.002	0.00093586
5e+12	3.4271	3.4476	3.46	0.015259	3.4205	3.44	3.4518	0.014325	-0.0088	-0.0076	-0.0066	0.0010708
1e+13	3.4383	3.4441	3.4499	0.0049237	3.422	3.4293	3.4347	0.0055006	-0.0163	-0.014725	-0.0136	0.0012685

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

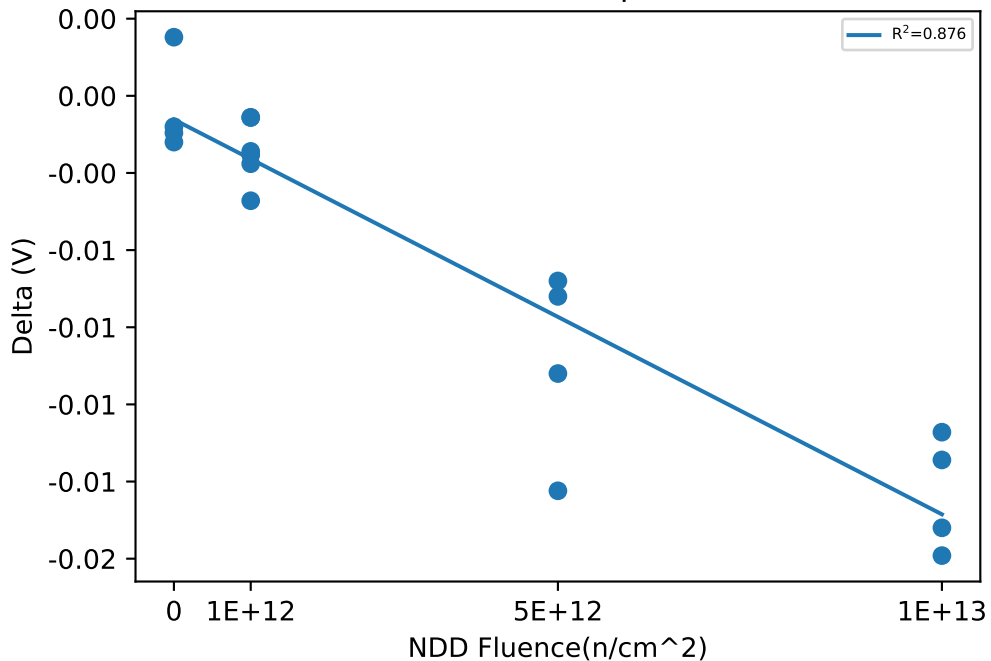
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.6249	3.623	-0.0019
171	1e+12	NDD	3.6173	3.6155	-0.0018
269	1e+12	NDD	3.6161	3.6127	-0.0034
337	1e+12	NDD	3.6191	3.6169	-0.0022
357	5e+12	NDD	3.6342	3.6252	-0.009
361	5e+12	NDD	3.623	3.6102	-0.0128
373	5e+12	NDD	3.6058	3.5993	-0.0065
412	5e+12	NDD	3.6188	3.6128	-0.006
470	1e+13	NDD	3.6114	3.5974	-0.014
498	1e+13	NDD	3.6208	3.6059	-0.0149
503	1e+13	NDD	3.6348	3.6239	-0.0109
540	1e+13	NDD	3.6112	3.5994	-0.0118
553	0	CORRELATION	3.6242	3.623	-0.0012
586	0	CORRELATION	3.6052	3.6037	-0.0015
634	0	CORRELATION	3.6127	3.6117	-0.001
635	0	CORRELATION	3.6097	3.6116	0.0019

NDD vs Post - Pre Exposure Delta

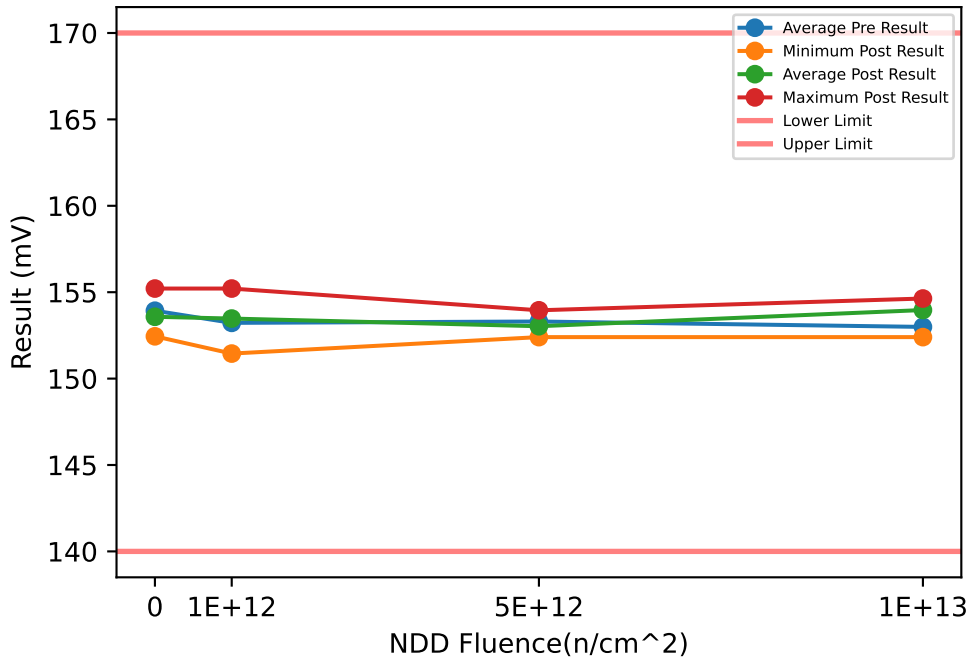


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.6052	3.613	3.6242	0.0081086	3.6037	3.6125	3.623	0.0079402	-0.0015	-0.00045	0.0019	0.0015801
1e+12	3.6161	3.6193	3.6249	0.0039	3.6127	3.617	3.623	0.0043492	-0.0034	-0.002325	-0.0018	0.00073655
5e+12	3.6058	3.6204	3.6342	0.011732	3.5993	3.6119	3.6252	0.010636	-0.0128	-0.008575	-0.006	0.0031074
1e+13	3.6112	3.6196	3.6348	0.01111	3.5974	3.6067	3.6239	0.012059	-0.0149	-0.0129	-0.0109	0.0018637

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

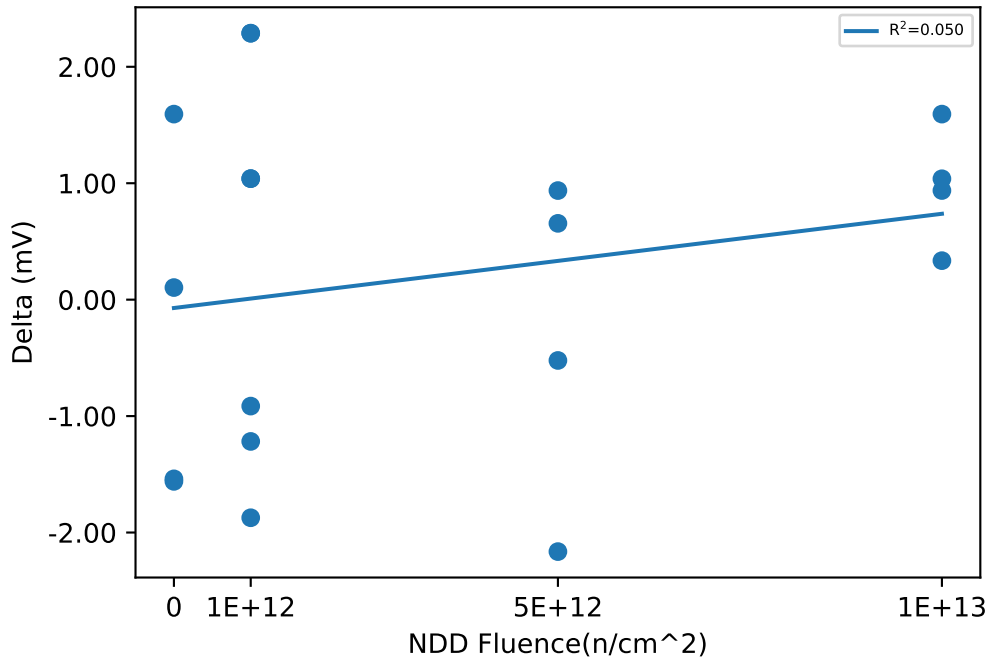
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	152.92	153.96	1.0395
171	1e+12	NDD	153.67	152.76	-0.9141
269	1e+12	NDD	153.32	151.45	-1.8731
337	1e+12	NDD	152.98	151.77	-1.2176
357	5e+12	NDD	152.92	152.4	-0.5222
361	5e+12	NDD	154.92	152.76	-2.1638
373	5e+12	NDD	152.07	153.01	0.937
412	5e+12	NDD	153.3	153.95	0.6554
470	1e+13	NDD	151.36	152.4	1.0383
498	1e+13	NDD	154.3	154.63	0.335
503	1e+13	NDD	153.63	154.57	0.9374
540	1e+13	NDD	152.67	154.27	1.5936
553	0	CORRELATION	155.11	155.21	0.1039
586	0	CORRELATION	153.99	152.45	-1.539
634	0	CORRELATION	154.26	152.7	-1.5607
635	0	CORRELATION	152.36	153.95	1.5936

NDD vs Post - Pre Exposure Delta

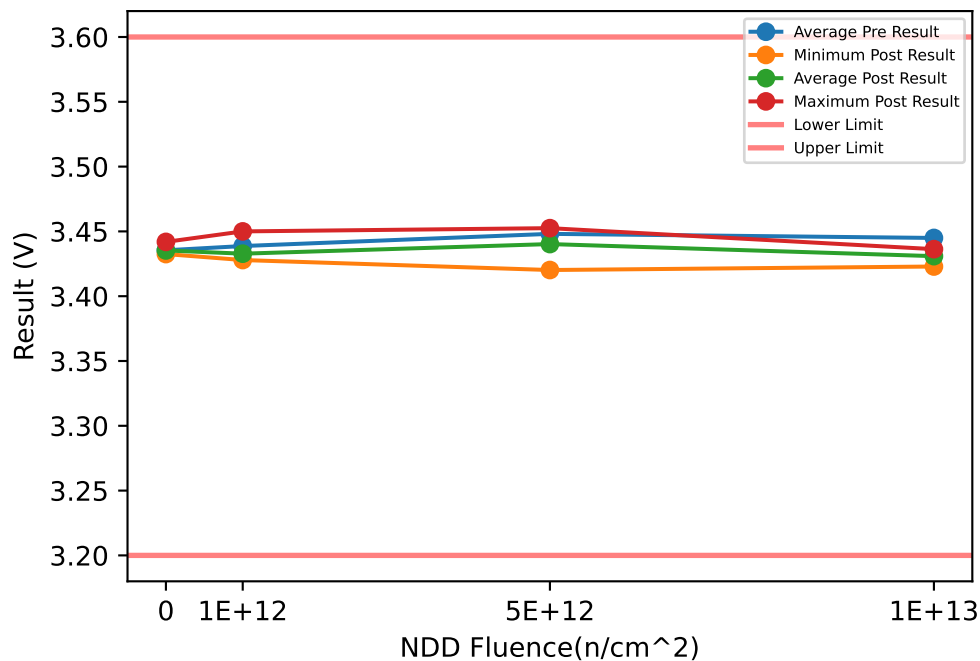


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	152.36	153.93	155.11	1.1496	152.45	153.58	155.21	1.2732	-1.5607	-0.35055	1.5936	1.5125
1e+12	152.92	153.23	153.67	0.34633	151.45	152.48	153.96	1.1327	-1.8731	-0.74132	1.0395	1.2529
5e+12	152.07	153.3	154.92	1.1951	152.4	153.03	153.95	0.66361	-2.1638	-0.2734	0.937	1.4099
1e+13	151.36	152.99	154.3	1.2752	152.4	153.97	154.63	1.057	0.335	0.97607	1.5936	0.51565

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

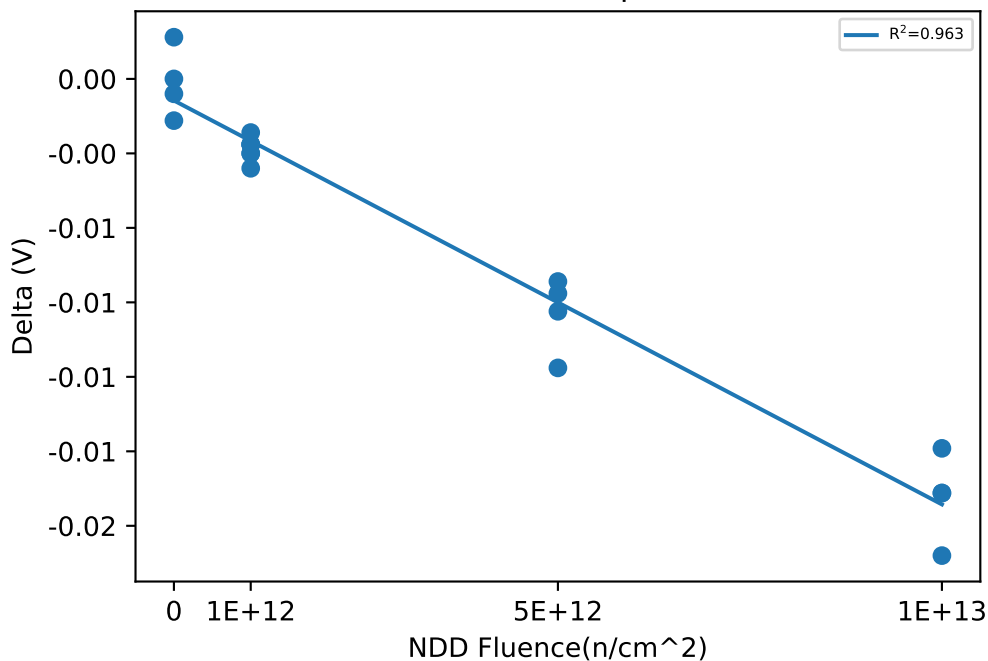
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.4304	3.4279	-0.0025
171	1e+12	NDD	3.4522	3.45	-0.0022
269	1e+12	NDD	3.4337	3.4307	-0.003
337	1e+12	NDD	3.4385	3.4367	-0.0018
357	5e+12	NDD	3.459	3.4493	-0.0097
361	5e+12	NDD	3.4457	3.4389	-0.0068
373	5e+12	NDD	3.4603	3.4525	-0.0078
412	5e+12	NDD	3.4274	3.4202	-0.0072
470	1e+13	NDD	3.4502	3.4363	-0.0139
498	1e+13	NDD	3.4477	3.4338	-0.0139
503	1e+13	NDD	3.4389	3.4229	-0.016
540	1e+13	NDD	3.443	3.4306	-0.0124
553	0	CORRELATION	3.4424	3.4419	-0.0005
586	0	CORRELATION	3.4311	3.4325	0.0014
634	0	CORRELATION	3.434	3.434	0
635	0	CORRELATION	3.4342	3.4328	-0.0014

NDD vs Post - Pre Exposure Delta

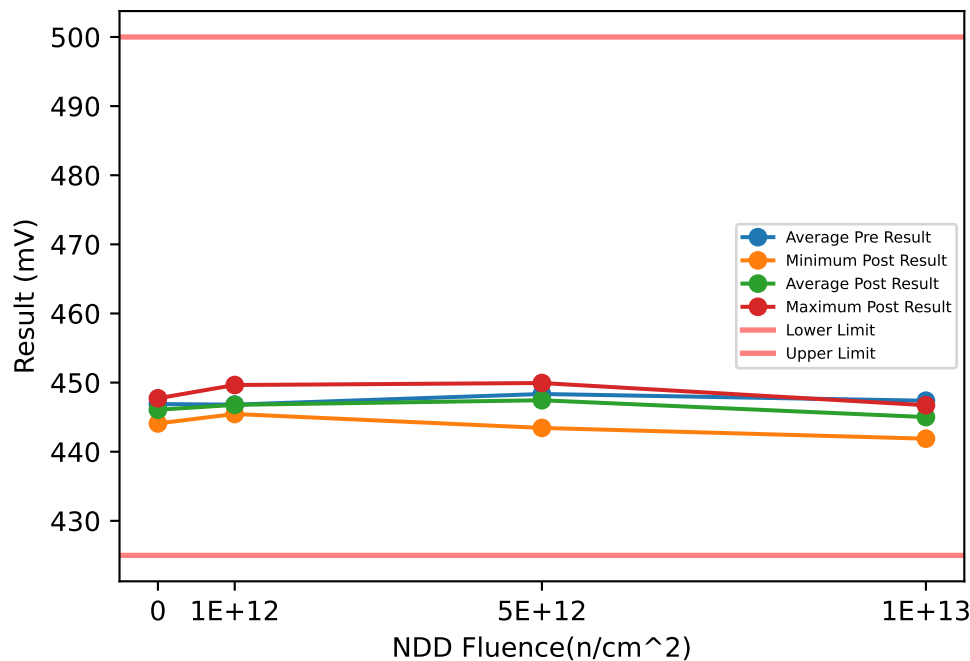


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4311	3.4354	3.4424	0.004861	3.4325	3.4353	3.4419	0.0044475	-0.0014	-0.000125	0.0014	0.0011701
1e+12	3.4304	3.4387	3.4522	0.0095948	3.4279	3.4363	3.45	0.009828	-0.003	-0.002375	-0.0018	0.0005058
5e+12	3.4274	3.4481	3.4603	0.015296	3.4202	3.4402	3.4525	0.014558	-0.0097	-0.007875	-0.0068	0.0012842
1e+13	3.4389	3.4449	3.4502	0.0050176	3.4229	3.4309	3.4363	0.0058212	-0.016	-0.01405	-0.0124	0.0014799

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

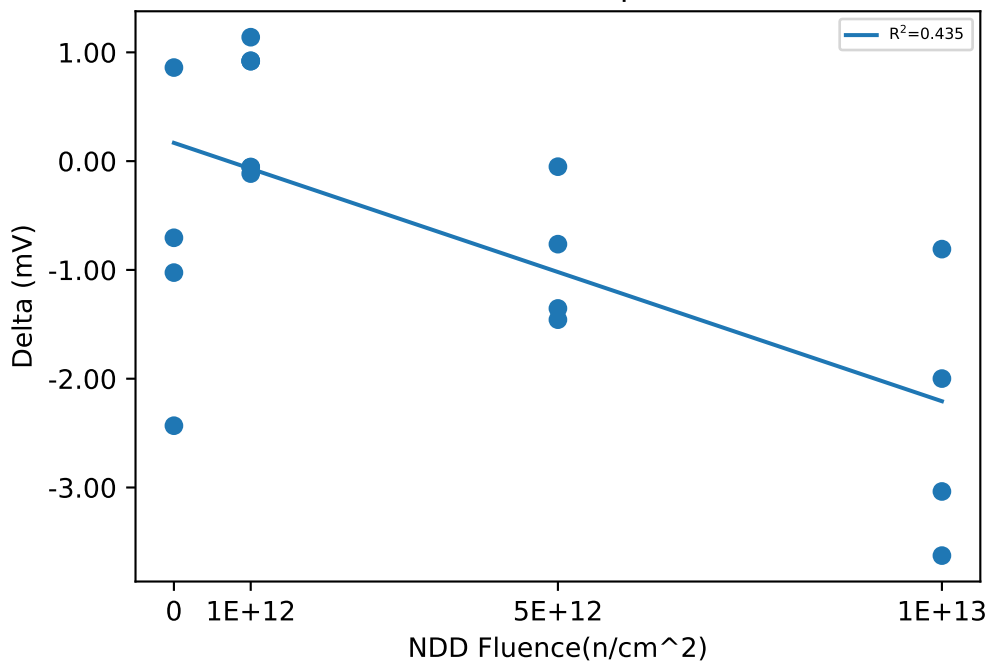
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	445.51	446.43	0.9192
171	1e+12	NDD	449.76	449.65	-0.1145
269	1e+12	NDD	446.1	447.02	0.9233
337	1e+12	NDD	445.87	447.01	1.1393
357	5e+12	NDD	450.38	449.03	-1.354
361	5e+12	NDD	448.14	447.38	-0.7632
373	5e+12	NDD	449.99	449.94	-0.0509
412	5e+12	NDD	444.9	443.44	-1.4573
470	1e+13	NDD	445.51	441.88	-3.626
498	1e+13	NDD	449.76	446.73	-3.0365
503	1e+13	NDD	447.39	445.4	-1.9988
540	1e+13	NDD	446.85	446.04	-0.8088
553	0	CORRELATION	448.43	447.73	-0.7045
586	0	CORRELATION	445.87	446.73	0.8602
634	0	CORRELATION	446.74	445.72	-1.0246
635	0	CORRELATION	446.52	444.09	-2.4319

NDD vs Post - Pre Exposure Delta

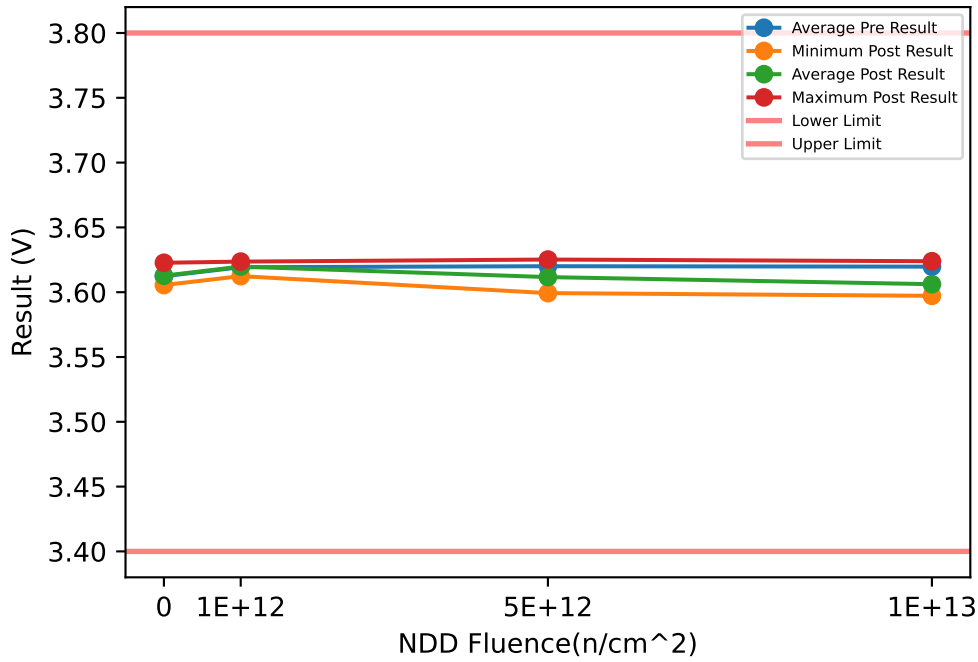


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	445.87	446.89	448.43	1.0928	444.09	446.07	447.73	1.5514	-2.4319	-0.8252	0.8602	1.3511
1e+12	445.51	446.81	449.76	1.9834	446.43	447.53	449.65	1.4412	-0.1145	0.71682	1.1393	0.56367
5e+12	444.9	448.35	450.38	2.5014	443.44	447.45	449.94	2.8728	-1.4573	-0.90635	-0.0509	0.6471
1e+13	445.51	447.38	449.76	1.7758	441.88	445.01	446.73	2.1544	-3.626	-2.3675	-0.8088	1.2379

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

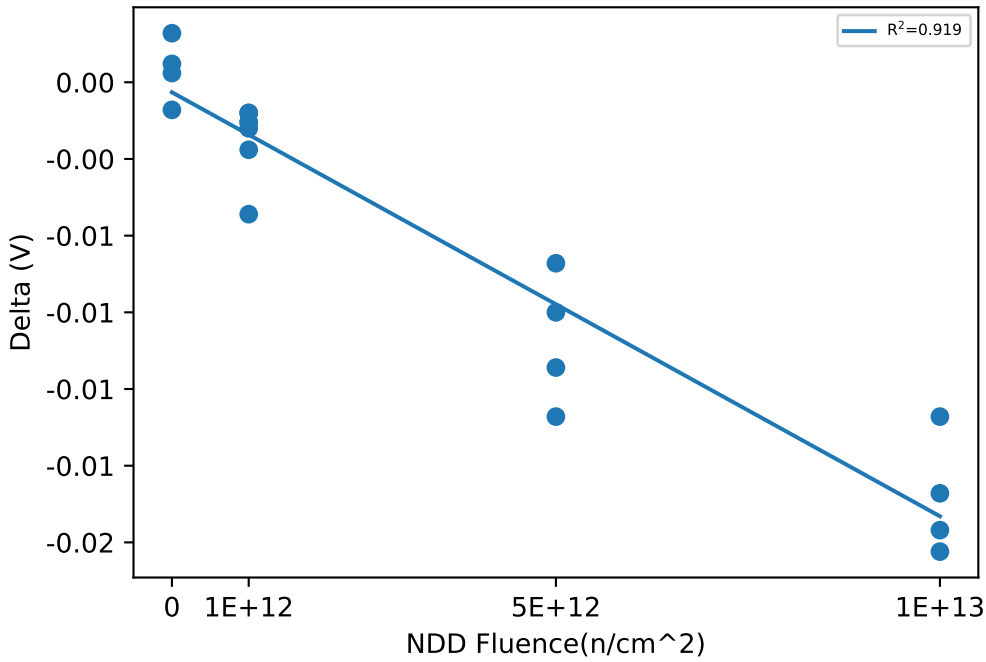
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.6246	3.6233	-0.0013
171	1e+12	NDD	3.617	3.6155	-0.0015
269	1e+12	NDD	3.6167	3.6124	-0.0043
337	1e+12	NDD	3.6188	3.6166	-0.0022
357	5e+12	NDD	3.6345	3.6252	-0.0093
361	5e+12	NDD	3.6211	3.6102	-0.0109
373	5e+12	NDD	3.6052	3.5993	-0.0059
412	5e+12	NDD	3.6194	3.6119	-0.0075
470	1e+13	NDD	3.6108	3.5974	-0.0134
498	1e+13	NDD	3.6208	3.6062	-0.0146
503	1e+13	NDD	3.6348	3.6239	-0.0109
540	1e+13	NDD	3.6125	3.5972	-0.0153
553	0	CORRELATION	3.6236	3.6227	-0.0009
586	0	CORRELATION	3.6052	3.6055	0.0003
634	0	CORRELATION	3.6105	3.6111	0.0006
635	0	CORRELATION	3.61	3.6116	0.0016

NDD vs Post - Pre Exposure Delta

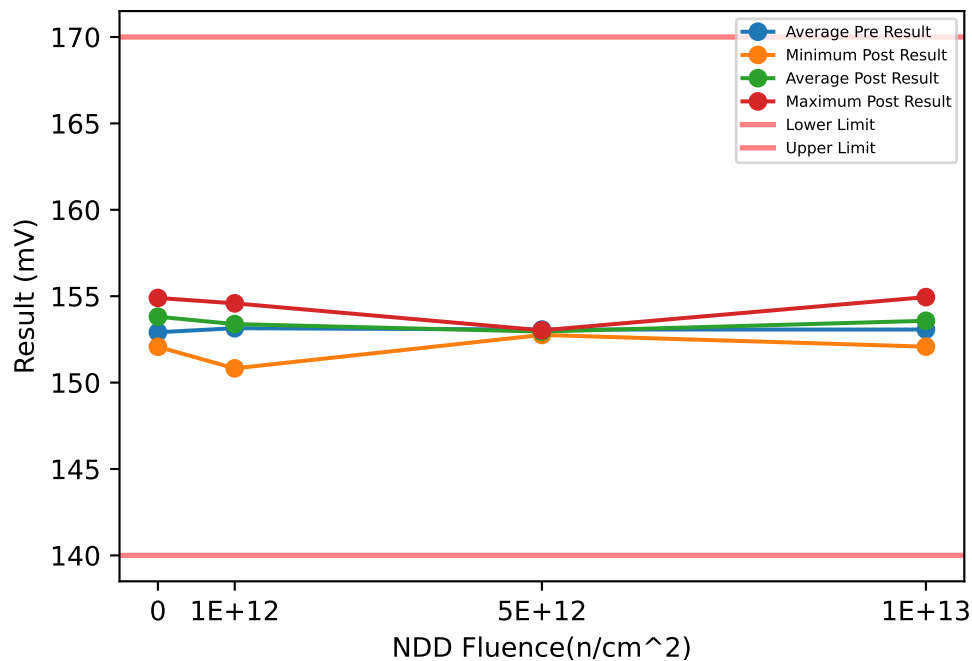


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.6052	3.6123	3.6236	0.0078873	3.6055	3.6127	3.6227	0.007202	-0.0009	0.0004	0.0016	0.0010296
1e+12	3.6167	3.6193	3.6246	0.0036691	3.6124	3.617	3.6233	0.0045917	-0.0043	-0.002325	-0.0013	0.001372
5e+12	3.6052	3.62	3.6345	0.011984	3.5993	3.6117	3.6252	0.010619	-0.0109	-0.0084	-0.0059	0.0021695
1e+13	3.6108	3.6197	3.6348	0.010959	3.5972	3.6062	3.6239	0.01254	-0.0153	-0.01355	-0.0109	0.001933

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

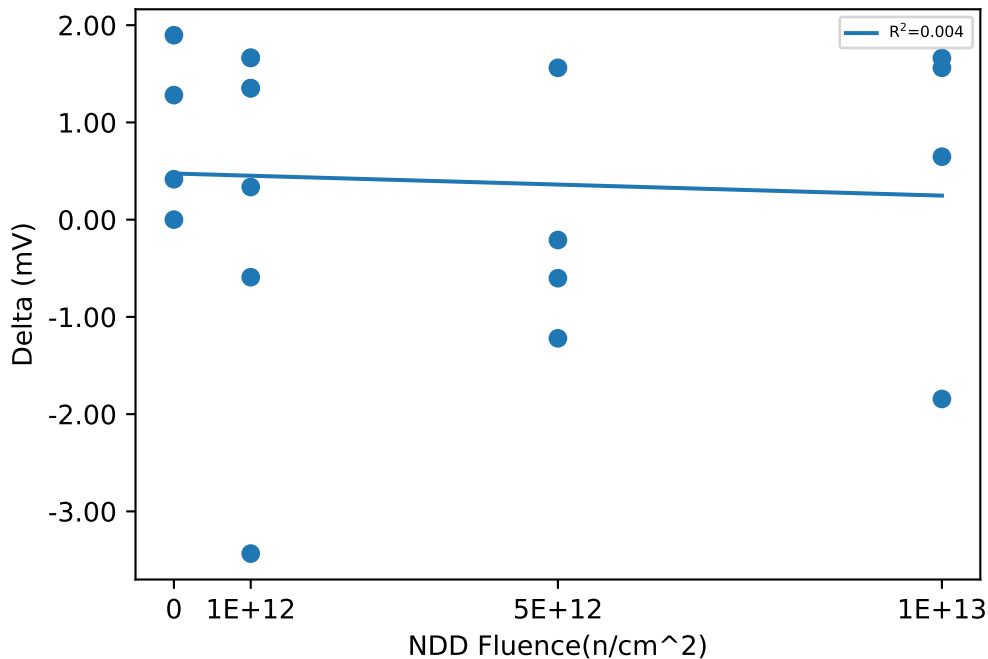
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	152.92	154.27	1.3521
171	1e+12	NDD	153.05	153.38	0.3357
269	1e+12	NDD	154.26	150.82	-3.4342
337	1e+12	NDD	152.36	151.77	-0.5918
357	5e+12	NDD	153.23	153.03	-0.2093
361	5e+12	NDD	153.36	152.76	-0.602
373	5e+12	NDD	151.45	153.01	1.5616
412	5e+12	NDD	154.24	153.02	-1.2202
470	1e+13	NDD	150.74	152.4	1.6623
498	1e+13	NDD	154.3	154.95	0.6475
503	1e+13	NDD	153.32	154.88	1.5618
540	1e+13	NDD	153.92	152.08	-1.8439
553	0	CORRELATION	154.48	154.9	0.4158
586	0	CORRELATION	152.42	154.32	1.8971
634	0	CORRELATION	152.07	152.07	0.0005
635	0	CORRELATION	152.67	153.95	1.281

NDD vs Post - Pre Exposure Delta

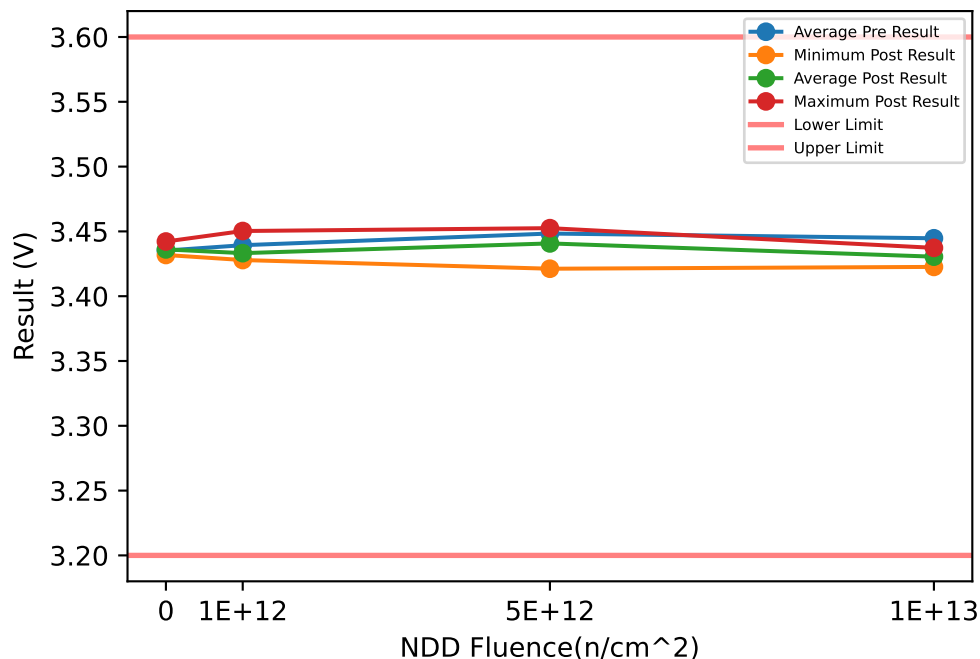


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	152.07	152.91	154.48	1.0754	152.07	153.81	154.9	1.2228	0.0005	0.8986	1.8971	0.85302
1e+12	152.36	153.15	154.26	0.79898	150.82	152.56	154.27	1.5561	-3.4342	-0.58455	1.3521	2.059
5e+12	151.45	153.07	154.24	1.1696	152.76	152.95	153.03	0.12885	-1.2202	-0.11748	1.5616	1.1942
1e+13	150.74	153.07	154.3	1.606	152.08	153.58	154.95	1.5501	-1.8439	0.50693	1.6623	1.6324

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

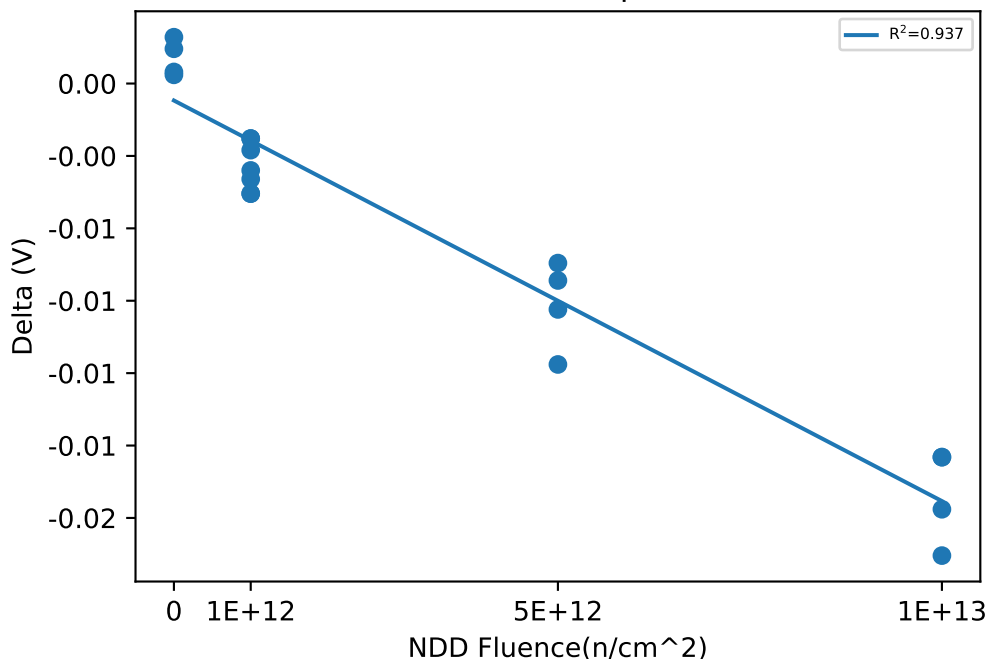
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.4317	3.4279	-0.0038
171	1e+12	NDD	3.4526	3.4503	-0.0023
269	1e+12	NDD	3.4337	3.4304	-0.0033
337	1e+12	NDD	3.4394	3.4364	-0.003
357	5e+12	NDD	3.4587	3.449	-0.0097
361	5e+12	NDD	3.447	3.4402	-0.0068
373	5e+12	NDD	3.4603	3.4525	-0.0078
412	5e+12	NDD	3.4274	3.4212	-0.0062
470	1e+13	NDD	3.4502	3.4373	-0.0129
498	1e+13	NDD	3.4467	3.4338	-0.0129
503	1e+13	NDD	3.4389	3.4226	-0.0163
540	1e+13	NDD	3.443	3.4283	-0.0147
553	0	CORRELATION	3.4418	3.4422	0.0004
586	0	CORRELATION	3.4315	3.4318	0.0003
634	0	CORRELATION	3.4337	3.4353	0.0016
635	0	CORRELATION	3.4339	3.4351	0.0012

NDD vs Post - Pre Exposure Delta

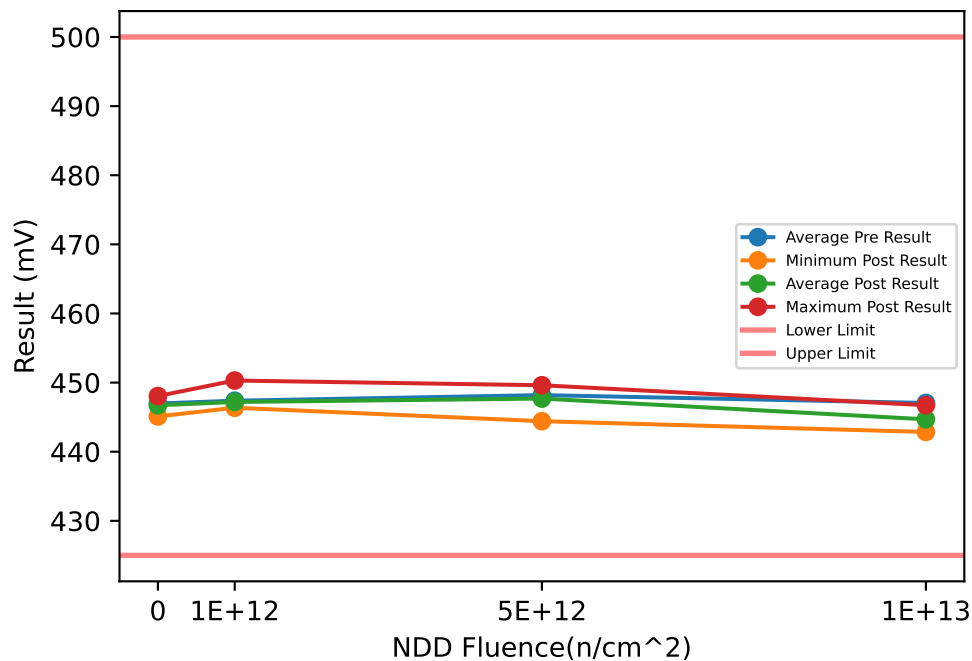


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4315	3.4352	3.4418	0.0045162	3.4318	3.4361	3.4422	0.0043719	0.0003	0.000875	0.0016	0.00062915
1e+12	3.4317	3.4394	3.4526	0.0094165	3.4279	3.4363	3.4503	0.010023	-0.0038	-0.0031	-0.0023	0.00062716
5e+12	3.4274	3.4484	3.4603	0.015173	3.4212	3.4407	3.4525	0.014007	-0.0097	-0.007625	-0.0062	0.0015327
1e+13	3.4389	3.4447	3.4502	0.0048573	3.4226	3.4305	3.4373	0.0064389	-0.0163	-0.0142	-0.0129	0.0016371

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

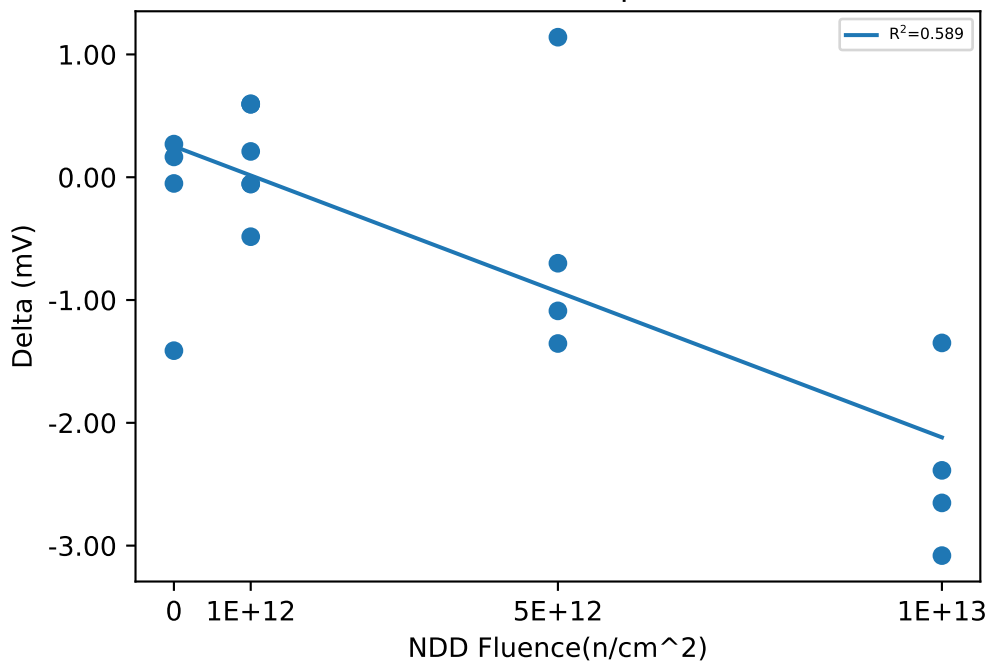
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	446.49	446.43	-0.055
171	1e+12	NDD	450.09	450.3	0.2101
269	1e+12	NDD	446.1	446.69	0.5986
337	1e+12	NDD	446.85	446.36	-0.4843
357	5e+12	NDD	450.06	448.7	-1.354
361	5e+12	NDD	449.11	448.03	-1.0884
373	5e+12	NDD	450.32	449.62	-0.7004
412	5e+12	NDD	443.28	444.42	1.1403
470	1e+13	NDD	445.51	442.86	-2.6521
498	1e+13	NDD	449.11	446.73	-2.3871
503	1e+13	NDD	446.74	445.4	-1.3493
540	1e+13	NDD	446.85	443.77	-3.0812
553	0	CORRELATION	447.78	448.05	0.2697
586	0	CORRELATION	446.52	445.1	-1.4124
634	0	CORRELATION	447.39	447.34	-0.0507
635	0	CORRELATION	446.2	446.36	0.1654

NDD vs Post - Pre Exposure Delta

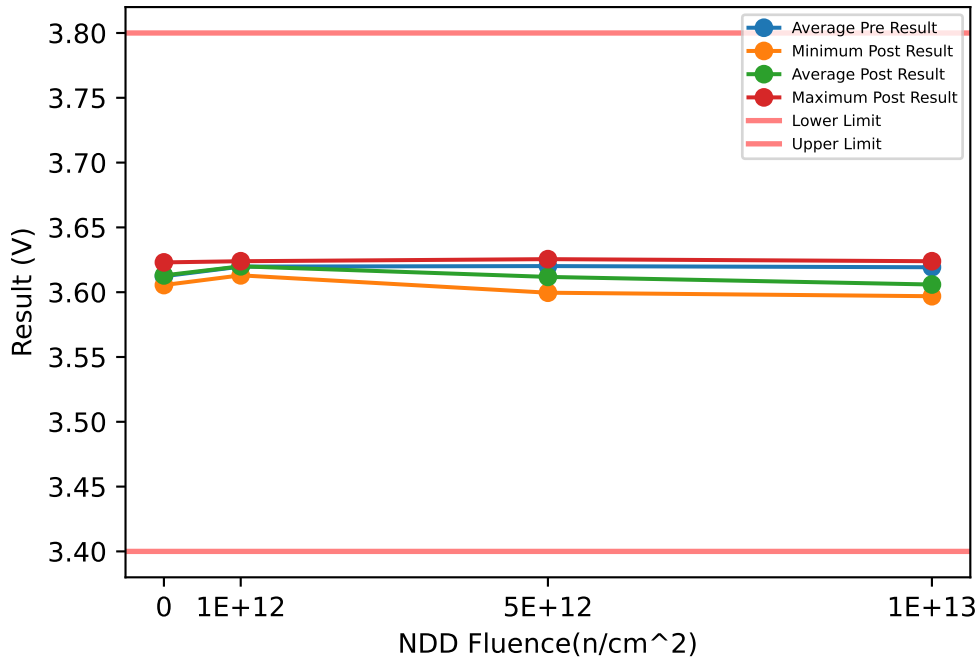


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	446.2	446.97	447.78	0.73988	445.1	446.72	448.05	1.2784	-1.4124	-0.257	0.2697	0.78174
1e+12	446.1	447.38	450.09	1.8323	446.36	447.45	450.3	1.9068	-0.4843	0.06735	0.5986	0.4553
5e+12	443.28	448.19	450.32	3.3171	444.42	447.69	449.62	2.2778	-1.354	-0.50062	1.1403	1.1264
1e+13	445.51	447.05	449.11	1.5017	442.86	444.69	446.73	1.718	-3.0812	-2.3674	-1.3493	0.73654

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

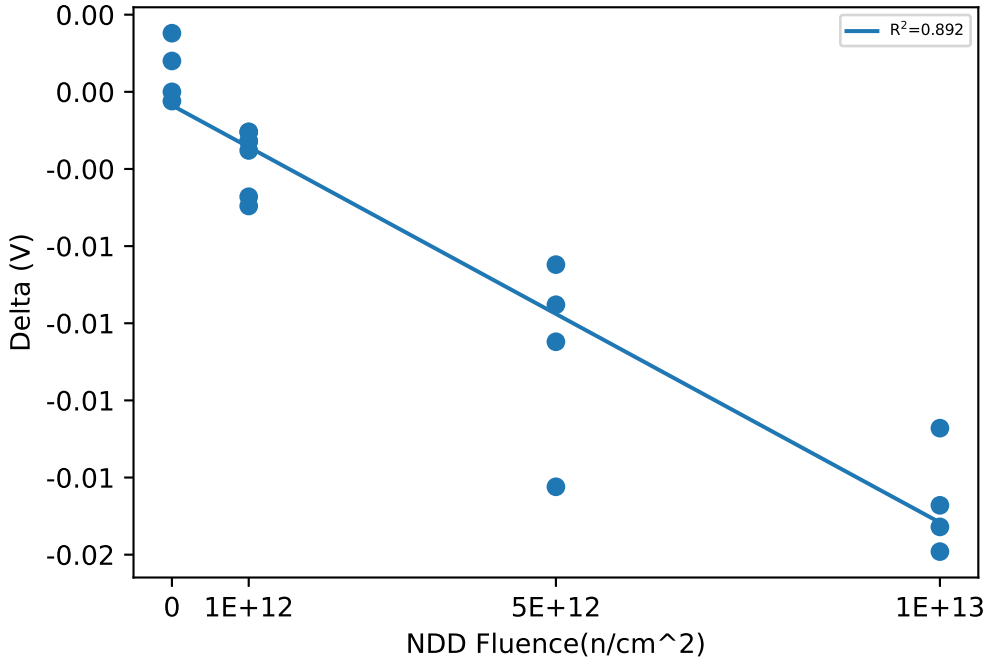
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.6252	3.6239	-0.0013
171	1e+12	NDD	3.6186	3.6149	-0.0037
269	1e+12	NDD	3.6164	3.613	-0.0034
337	1e+12	NDD	3.6188	3.6169	-0.0019
357	5e+12	NDD	3.6336	3.6255	-0.0081
361	5e+12	NDD	3.623	3.6102	-0.0128
373	5e+12	NDD	3.6052	3.5996	-0.0056
412	5e+12	NDD	3.6188	3.6119	-0.0069
470	1e+13	NDD	3.6111	3.597	-0.0141
498	1e+13	NDD	3.6208	3.6059	-0.0149
503	1e+13	NDD	3.6348	3.6239	-0.0109
540	1e+13	NDD	3.6103	3.5969	-0.0134
553	0	CORRELATION	3.6233	3.623	-0.0003
586	0	CORRELATION	3.6045	3.6055	0.001
634	0	CORRELATION	3.6117	3.6117	0
635	0	CORRELATION	3.6097	3.6116	0.0019

NDD vs Post - Pre Exposure Delta

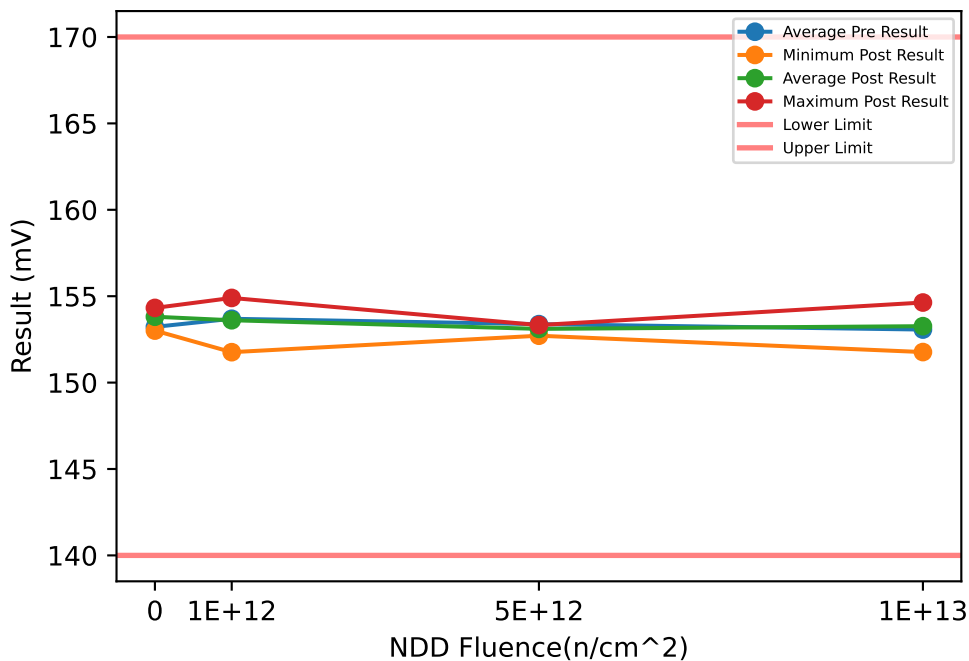


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.6045	3.6123	3.6233	0.0079364	3.6055	3.613	3.623	0.0073005	-0.0003	0.00065	0.0019	0.0010017
1e+12	3.6164	3.6197	3.6252	0.0037925	3.613	3.6172	3.6239	0.0047577	-0.0037	-0.002575	-0.0013	0.0011587
5e+12	3.6052	3.6201	3.6336	0.011752	3.5996	3.6118	3.6255	0.010632	-0.0128	-0.00835	-0.0056	0.0031374
1e+13	3.6103	3.6193	3.6348	0.011412	3.5969	3.6059	3.6239	0.012704	-0.0149	-0.013325	-0.0109	0.0017289

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

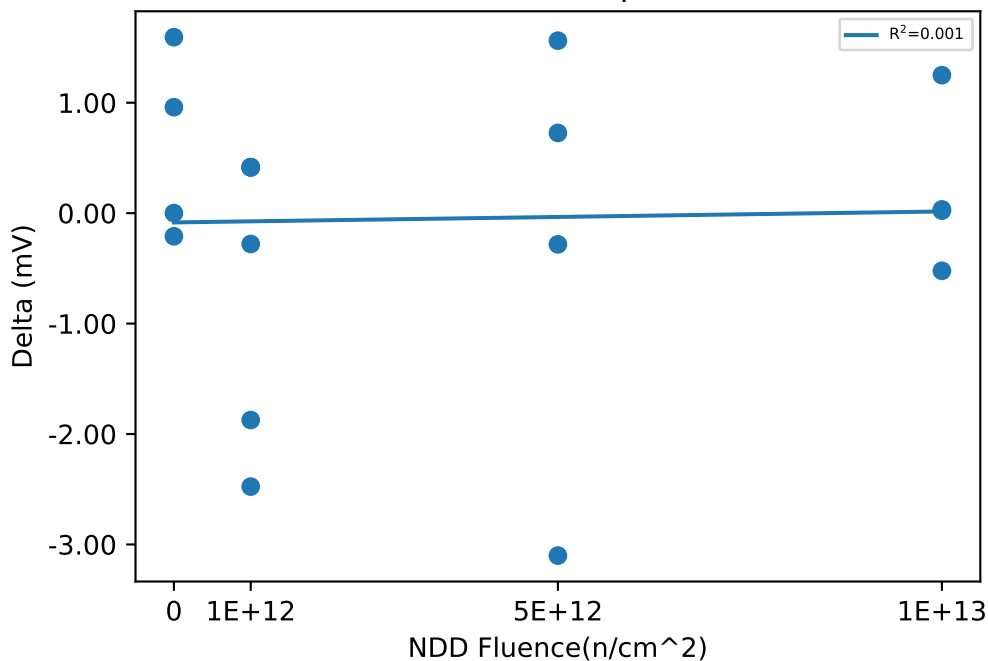
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	154.48	154.9	0.4161
171	1e+12	NDD	154.61	152.13	-2.476
269	1e+12	NDD	153.63	151.76	-1.8733
337	1e+12	NDD	152.05	151.77	-0.279
357	5e+12	NDD	151.99	152.71	0.7265
361	5e+12	NDD	156.17	153.07	-3.1009
373	5e+12	NDD	151.76	153.32	1.5618
412	5e+12	NDD	153.61	153.33	-0.2823
470	1e+13	NDD	152.61	152.09	-0.5221
498	1e+13	NDD	154.61	154.63	0.0229
503	1e+13	NDD	153.32	154.57	1.2495
540	1e+13	NDD	151.73	151.77	0.0339
553	0	CORRELATION	153.86	153.65	-0.2093
586	0	CORRELATION	153.36	154.32	0.9596
634	0	CORRELATION	153.01	153.01	0.0005
635	0	CORRELATION	152.67	154.27	1.5934

NDD vs Post - Pre Exposure Delta

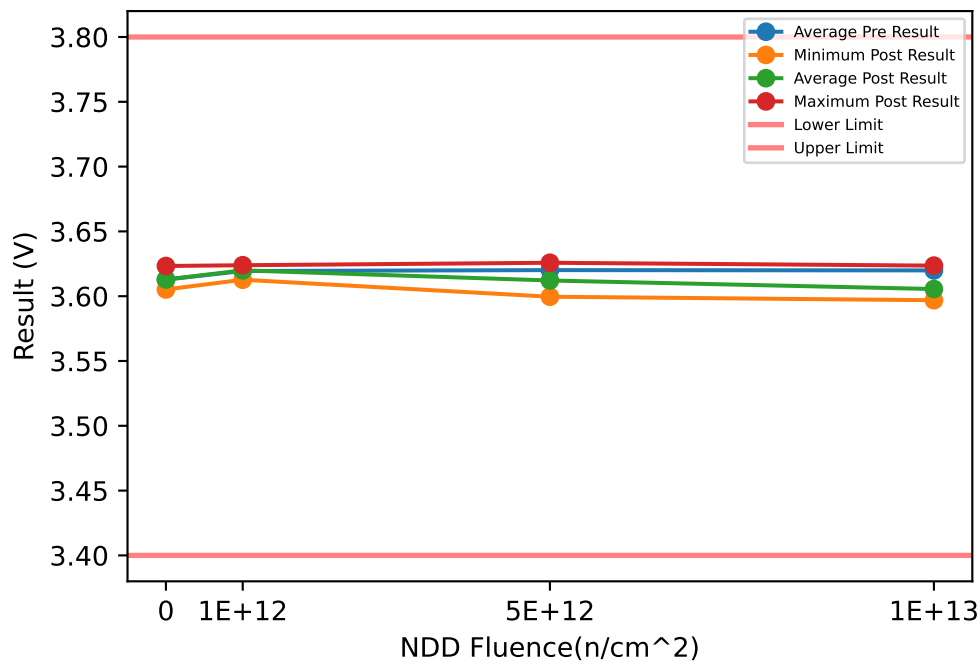


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	152.67	153.23	153.86	0.50774	153.01	153.81	154.32	0.61505	-0.2093	0.58605	1.5934	0.84256
1e+12	152.05	153.69	154.61	1.1809	151.76	152.64	154.9	1.5161	-2.476	-1.053	0.4161	1.3485
5e+12	151.76	153.38	156.17	2.0346	152.71	153.11	153.33	0.28948	-3.1009	-0.27372	1.5618	2.03
1e+13	151.73	153.07	154.61	1.2161	151.77	153.26	154.63	1.55	-0.5221	0.19605	1.2495	0.74873

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

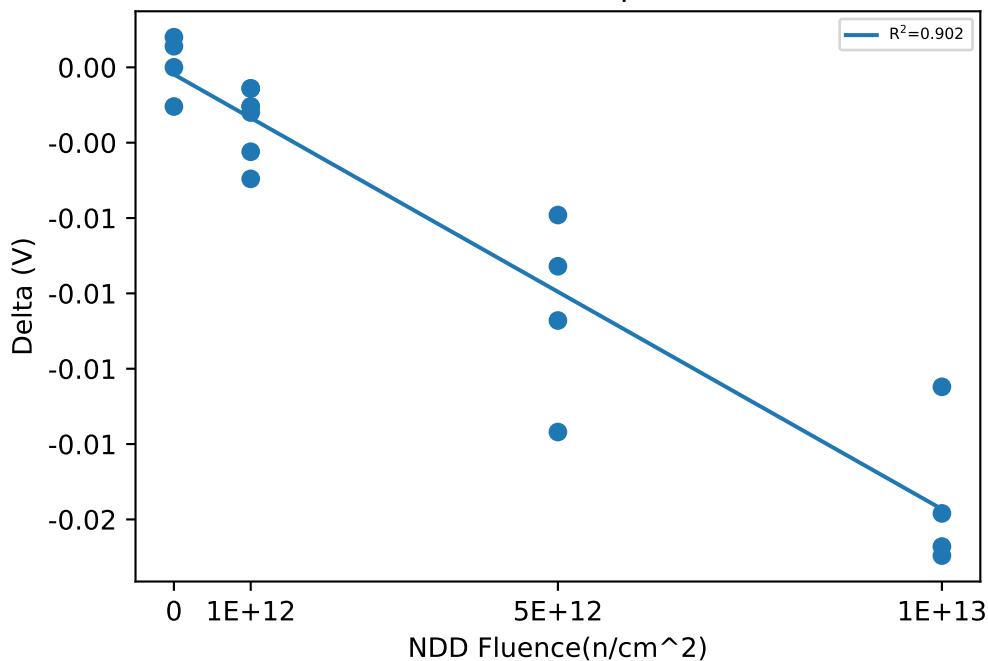
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.6246	3.6233	-0.0013
171	1e+12	NDD	3.6177	3.6162	-0.0015
269	1e+12	NDD	3.6164	3.6127	-0.0037
337	1e+12	NDD	3.6191	3.6163	-0.0028
357	5e+12	NDD	3.6342	3.6258	-0.0084
361	5e+12	NDD	3.623	3.6109	-0.0121
373	5e+12	NDD	3.6045	3.5996	-0.0049
412	5e+12	NDD	3.6188	3.6122	-0.0066
470	1e+13	NDD	3.6118	3.597	-0.0148
498	1e+13	NDD	3.6205	3.6046	-0.0159
503	1e+13	NDD	3.6342	3.6236	-0.0106
540	1e+13	NDD	3.6131	3.5969	-0.0162
553	0	CORRELATION	3.6246	3.6233	-0.0013
586	0	CORRELATION	3.6052	3.6052	0
634	0	CORRELATION	3.6117	3.6124	0.0007
635	0	CORRELATION	3.6097	3.6107	0.001

NDD vs Post - Pre Exposure Delta

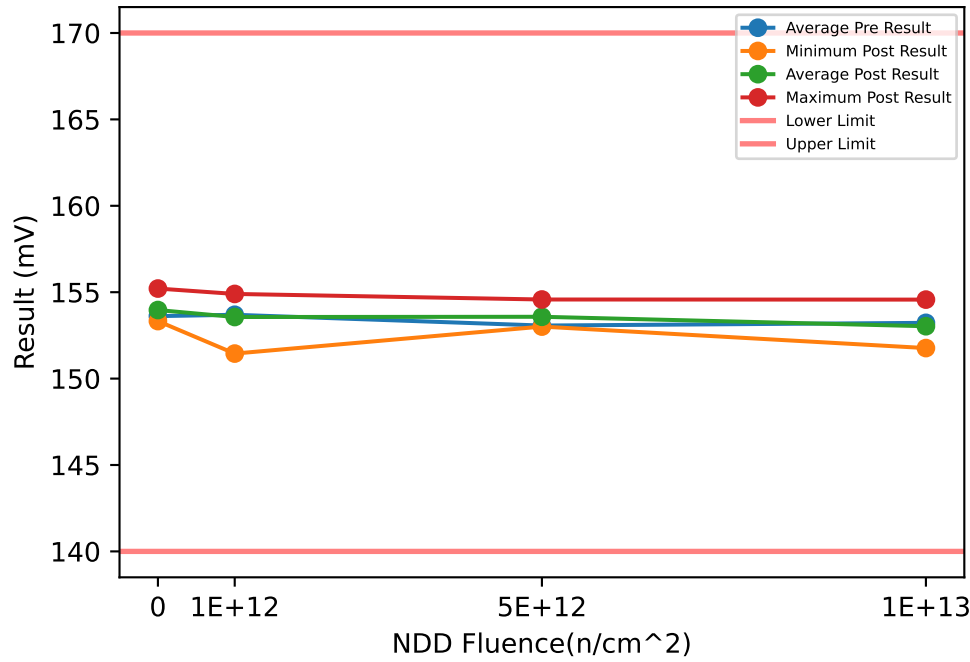


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.6052	3.6128	3.6246	0.0083231	3.6052	3.6129	3.6233	0.0075838	-0.0013	0.0001	0.001	0.0010231
1e+12	3.6164	3.6195	3.6246	0.003606	3.6127	3.6171	3.6233	0.004444	-0.0037	-0.002325	-0.0013	0.0011325
5e+12	3.6045	3.6201	3.6342	0.012278	3.5996	3.6121	3.6258	0.01073	-0.0121	-0.008	-0.0049	0.0030844
1e+13	3.6118	3.6199	3.6342	0.010275	3.5969	3.6055	3.6236	0.012578	-0.0162	-0.014375	-0.0106	0.0025876

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

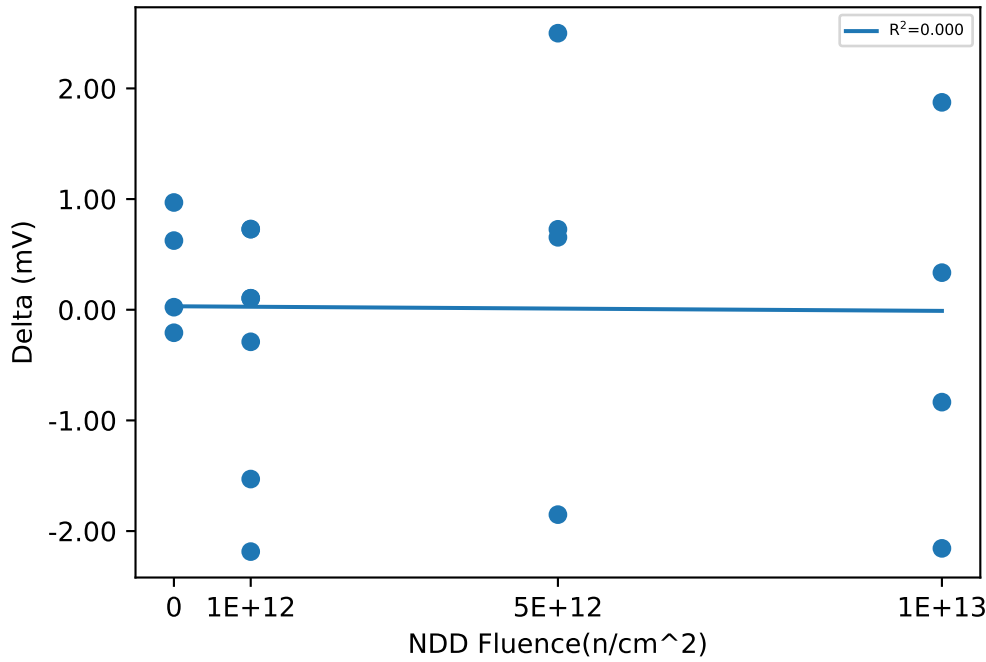
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	154.17	154.27	0.1039
171	1e+12	NDD	153.99	153.7	-0.2897
269	1e+12	NDD	153.63	151.45	-2.1854
337	1e+12	NDD	152.98	151.45	-1.5299
357	5e+12	NDD	152.61	153.34	0.7269
361	5e+12	NDD	155.24	153.38	-1.8514
373	5e+12	NDD	150.51	153.01	2.4989
412	5e+12	NDD	153.92	154.58	0.6545
470	1e+13	NDD	152.92	152.09	-0.8347
498	1e+13	NDD	153.36	153.7	0.3352
503	1e+13	NDD	152.7	154.57	1.874
540	1e+13	NDD	153.92	151.77	-2.1562
553	0	CORRELATION	155.42	155.21	-0.2079
586	0	CORRELATION	153.67	153.7	0.0231
634	0	CORRELATION	153.01	153.63	0.6249
635	0	CORRELATION	152.36	153.33	0.9692

NDD vs Post - Pre Exposure Delta

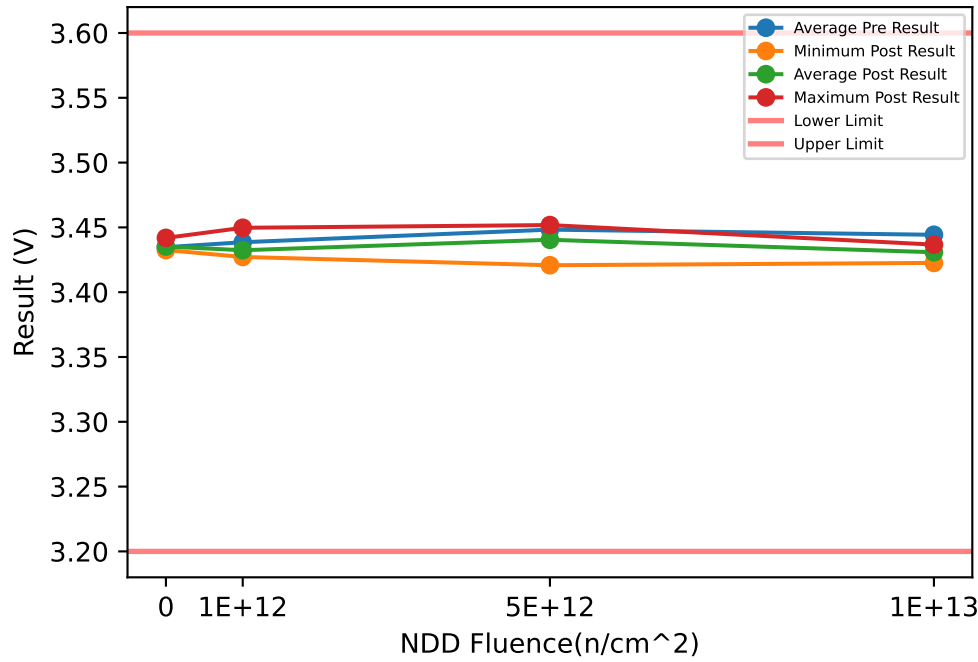


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	152.36	153.62	155.42	1.3169	153.33	153.97	155.21	0.8446	-0.2079	0.35233	0.9692	0.5407
1e+12	152.98	153.69	154.17	0.52275	151.45	152.72	154.27	1.4821	-2.1854	-0.97528	0.1039	1.0656
5e+12	150.51	153.07	155.24	2.0148	153.01	153.58	154.58	0.68731	-1.8514	0.50722	2.4989	1.7888
1e+13	152.7	153.23	153.92	0.54027	151.77	153.03	154.57	1.3294	-2.1562	-0.19543	1.874	1.7144

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

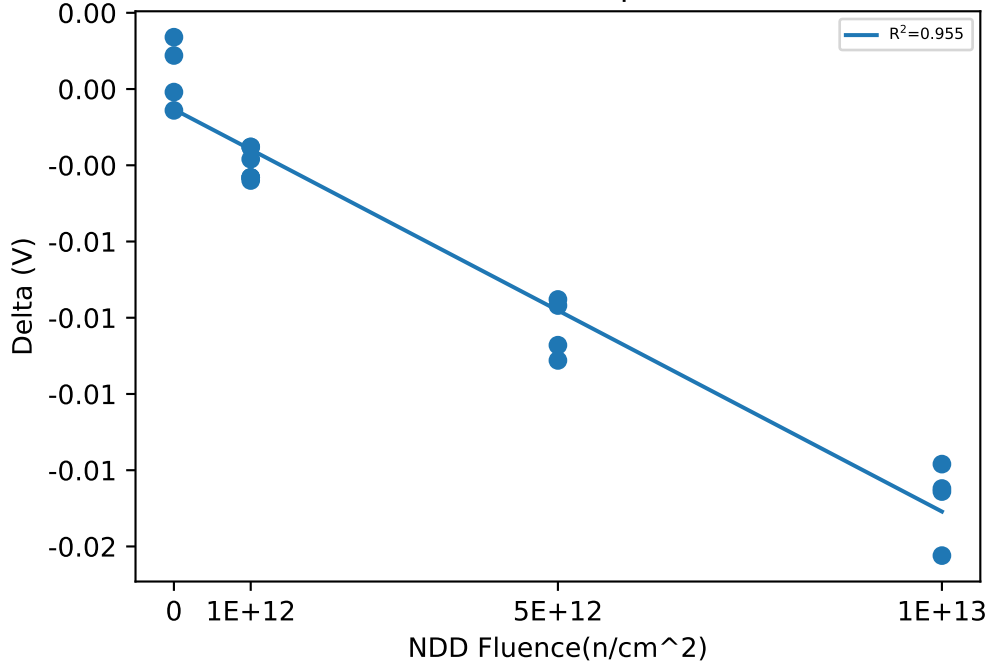
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.4301	3.4272	-0.0029
171	1e+12	NDD	3.4526	3.4497	-0.0029
269	1e+12	NDD	3.4327	3.4304	-0.0023
337	1e+12	NDD	3.4388	3.4358	-0.003
357	5e+12	NDD	3.4577	3.4493	-0.0084
361	5e+12	NDD	3.447	3.4399	-0.0071
373	5e+12	NDD	3.4607	3.4518	-0.0089
412	5e+12	NDD	3.4277	3.4208	-0.0069
470	1e+13	NDD	3.4499	3.4367	-0.0132
498	1e+13	NDD	3.4467	3.4344	-0.0123
503	1e+13	NDD	3.4379	3.4226	-0.0153
540	1e+13	NDD	3.4427	3.4296	-0.0131
553	0	CORRELATION	3.4408	3.4419	0.0011
586	0	CORRELATION	3.4308	3.4325	0.0017
634	0	CORRELATION	3.4331	3.433	-0.0001
635	0	CORRELATION	3.4342	3.4335	-0.0007

NDD vs Post - Pre Exposure Delta

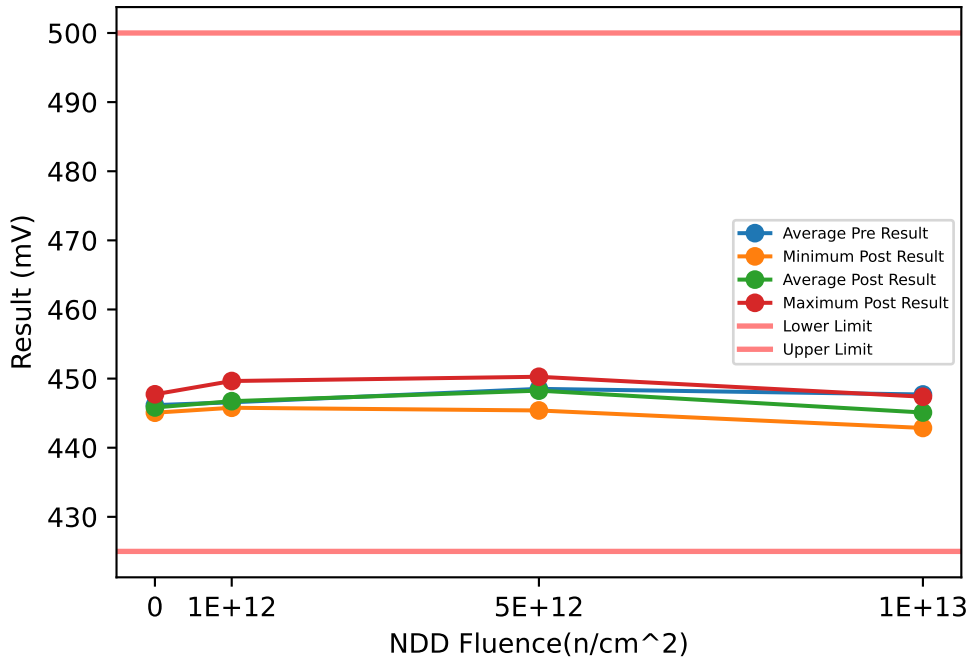


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4308	3.4347	3.4408	0.0042906	3.4325	3.4352	3.4419	0.0044687	-0.0007	0.0005	0.0017	0.0010954
1e+12	3.4301	3.4386	3.4526	0.010051	3.4272	3.4358	3.4497	0.0099386	-0.003	-0.002775	-0.0023	0.00032016
5e+12	3.4277	3.4483	3.4607	0.014924	3.4208	3.4405	3.4518	0.014066	-0.0089	-0.007825	-0.0069	0.00097767
1e+13	3.4379	3.4443	3.4499	0.0051846	3.4226	3.4308	3.4367	0.0062302	-0.0153	-0.013475	-0.0123	0.0012816

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

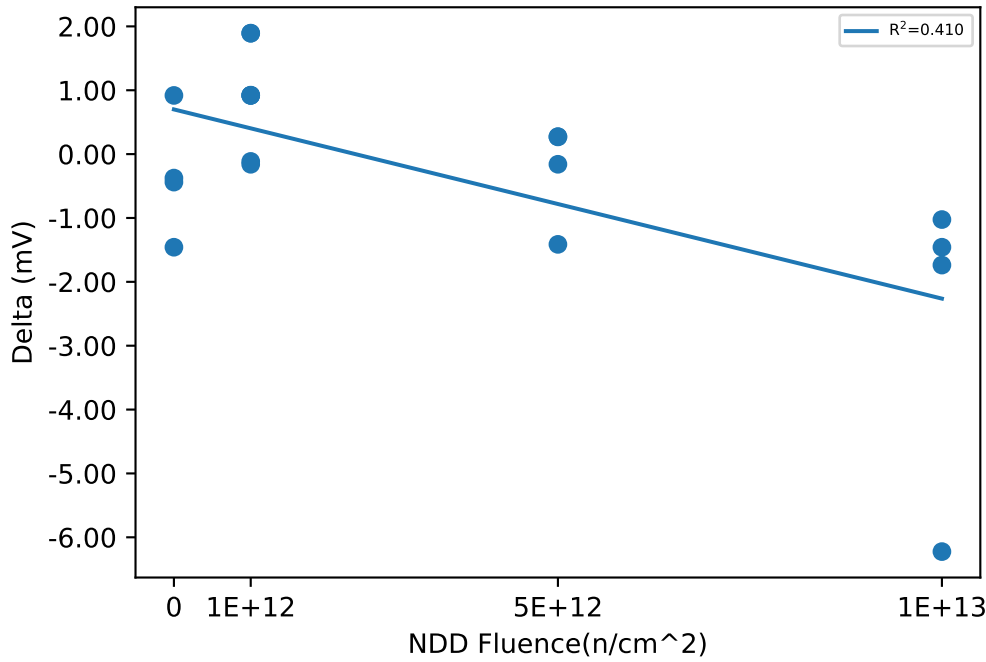
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	444.86	445.78	0.9194
171	1e+12	NDD	449.76	449.65	-0.1143
269	1e+12	NDD	445.45	446.37	0.9233
337	1e+12	NDD	446.2	446.04	-0.1593
357	5e+12	NDD	449.08	449.35	0.2697
361	5e+12	NDD	449.44	448.03	-1.4131
373	5e+12	NDD	449.99	450.26	0.2736
412	5e+12	NDD	445.55	445.39	-0.1591
470	1e+13	NDD	449.08	442.86	-6.2239
498	1e+13	NDD	449.11	447.38	-1.7376
503	1e+13	NDD	446.1	445.07	-1.0246
540	1e+13	NDD	446.52	445.07	-1.458
553	0	CORRELATION	446.81	447.73	0.9189
586	0	CORRELATION	445.87	445.43	-0.4384
634	0	CORRELATION	445.45	445.07	-0.3752
635	0	CORRELATION	446.52	445.07	-1.458

NDD vs Post - Pre Exposure Delta

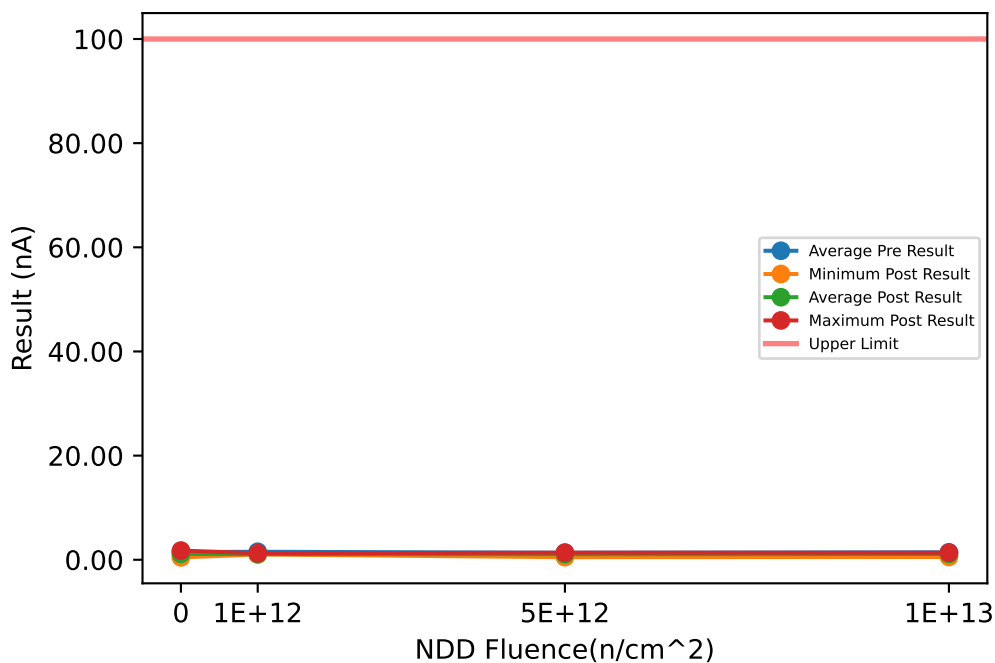


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	445.45	446.16	446.81	0.61906	445.07	445.82	447.73	1.2815	-1.458	-0.33818	0.9189	0.97394
1e+12	444.86	446.57	449.76	2.2002	445.78	446.96	449.65	1.8094	-0.1593	0.39227	0.9233	0.6112
5e+12	445.55	448.52	449.99	2.0128	445.39	448.26	450.26	2.1217	-1.4131	-0.25723	0.2736	0.79689
1e+13	446.1	447.7	449.11	1.6199	442.86	445.09	447.38	1.8448	-6.2239	-2.611	-1.0246	2.4264

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

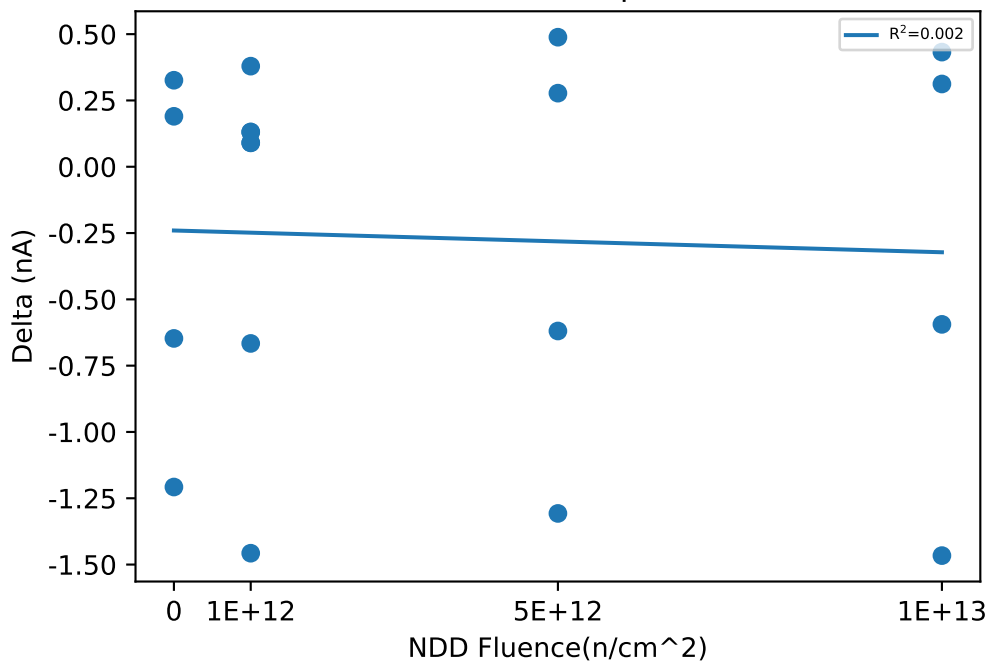
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.9215	1.0524	0.1309
171	1e+12	NDD	0.7986	1.1779	0.3793
269	1e+12	NDD	1.9093	1.2431	-0.6662
337	1e+12	NDD	2.5385	1.0813	-1.4572
357	5e+12	NDD	0.8342	1.1117	0.2775
361	5e+12	NDD	0.8736	1.3621	0.4885
373	5e+12	NDD	1.1131	0.4938	-0.6193
412	5e+12	NDD	2.6008	1.2936	-1.3072
470	1e+13	NDD	1.0338	1.3459	0.3121
498	1e+13	NDD	0.8205	1.2528	0.4323
503	1e+13	NDD	1.1287	0.5344	-0.5943
540	1e+13	NDD	2.7816	1.3154	-1.4662
553	0	CORRELATION	0.9527	1.1429	0.1902
586	0	CORRELATION	1.445	1.7712	0.3262
634	0	CORRELATION	1.1037	0.4564	-0.6473
635	0	CORRELATION	2.367	1.1594	-1.2076

NDD vs Post - Pre Exposure Delta

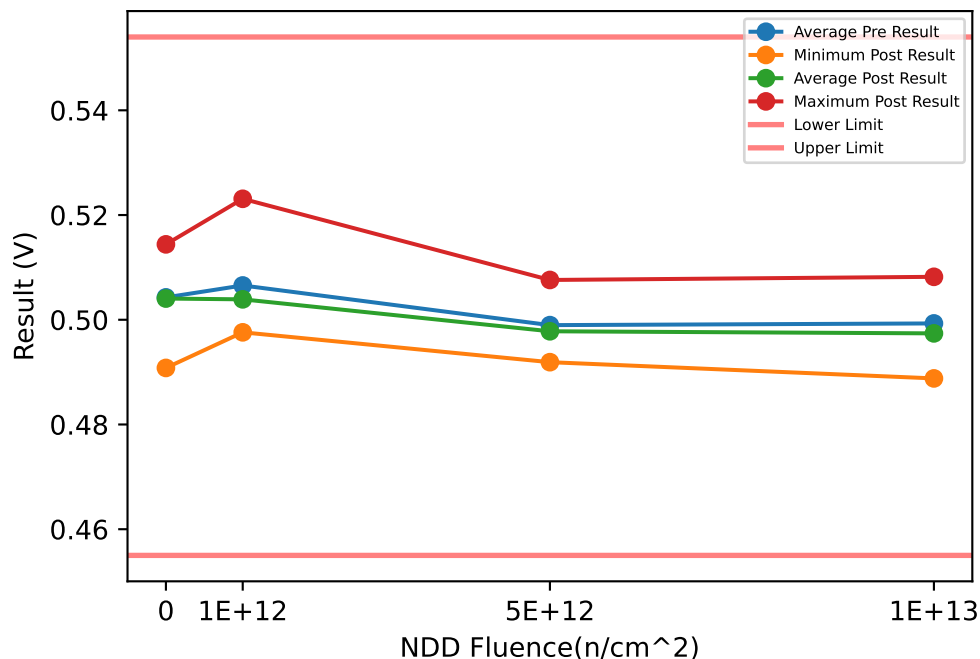


Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9527	1.4671	2.367	0.63429	0.4564	1.1325	1.7712	0.53724	-1.2076	-0.33462	0.3262	0.72387
1e+12	0.7986	1.542	2.5385	0.82978	1.0524	1.1387	1.2431	0.087899	-1.4572	-0.4033	0.3793	0.8322
5e+12	0.8342	1.3554	2.6008	0.83935	0.4938	1.0653	1.3621	0.39538	-1.3072	-0.29012	0.4885	0.83091
1e+13	0.8205	1.4411	2.7816	0.90288	0.5344	1.1121	1.3459	0.38709	-1.4662	-0.32903	0.4323	0.88585

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

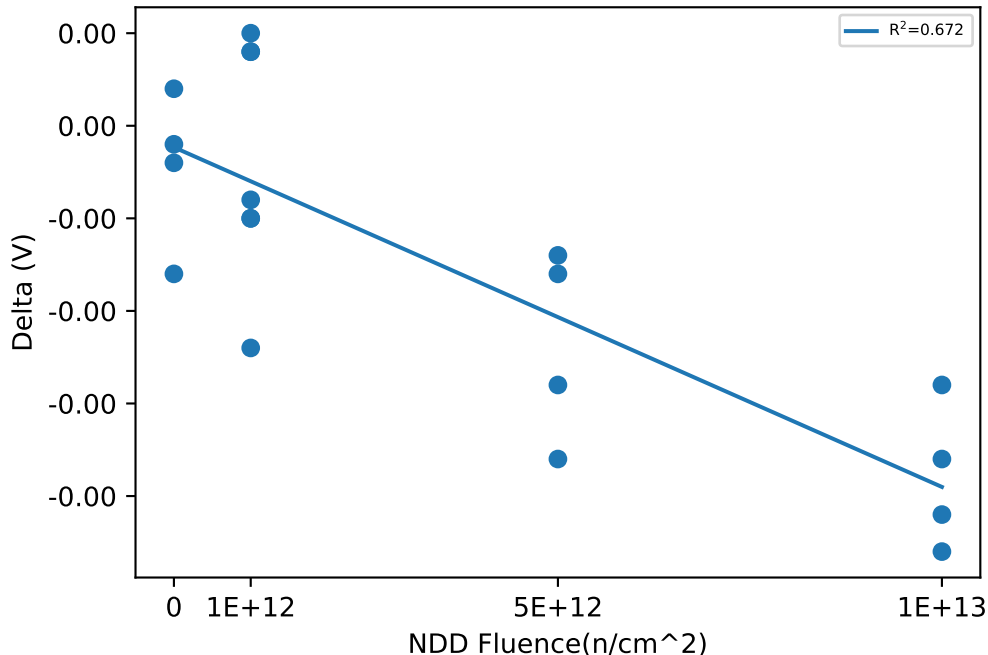
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5008	0.5003	-0.0005
171	1e+12	NDD	0.5243	0.5231	-0.0012
269	1e+12	NDD	0.498	0.4976	-0.0004
337	1e+12	NDD	0.5031	0.5036	0.0005
357	5e+12	NDD	0.4933	0.4919	-0.0014
361	5e+12	NDD	0.4974	0.4956	-0.0018
373	5e+12	NDD	0.5083	0.5076	-0.0007
412	5e+12	NDD	0.4969	0.4961	-0.0008
470	1e+13	NDD	0.4902	0.4888	-0.0014
498	1e+13	NDD	0.5046	0.5025	-0.0021
503	1e+13	NDD	0.5105	0.5082	-0.0023
540	1e+13	NDD	0.4919	0.4901	-0.0018
553	0	CORRELATION	0.5014	0.5016	0.0002
586	0	CORRELATION	0.5146	0.5144	-0.0002
634	0	CORRELATION	0.5102	0.5094	-0.0008
635	0	CORRELATION	0.4909	0.4908	-0.0001

NDD vs Post - Pre Exposure Delta

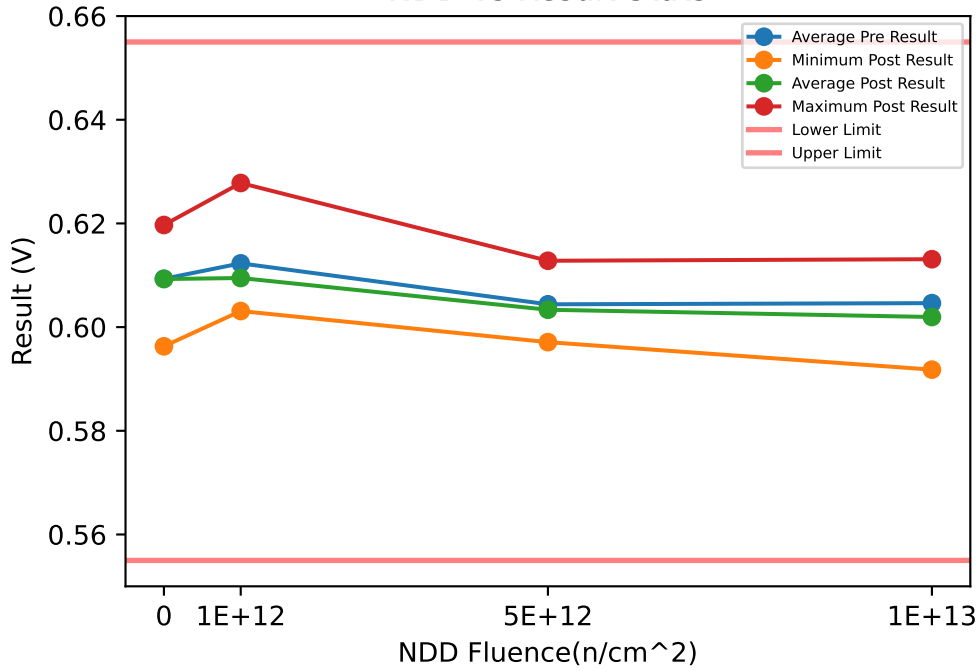


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4909	0.50428	0.5146	0.01047	0.4908	0.50405	0.5144	0.010284	-0.0008	-0.000225	0.0002	0.00041932
1e+12	0.498	0.50655	0.5243	0.012016	0.4976	0.50615	0.5231	0.011563	-0.0012	-0.0004	0.0005	0.00069761
5e+12	0.4933	0.49898	0.5083	0.0064794	0.4919	0.4978	0.5076	0.0067966	-0.0018	-0.001175	-0.0007	0.00051881
1e+13	0.4902	0.4993	0.5105	0.0098505	0.4888	0.4974	0.5082	0.0094851	-0.0023	-0.0019	-0.0014	0.00039158

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

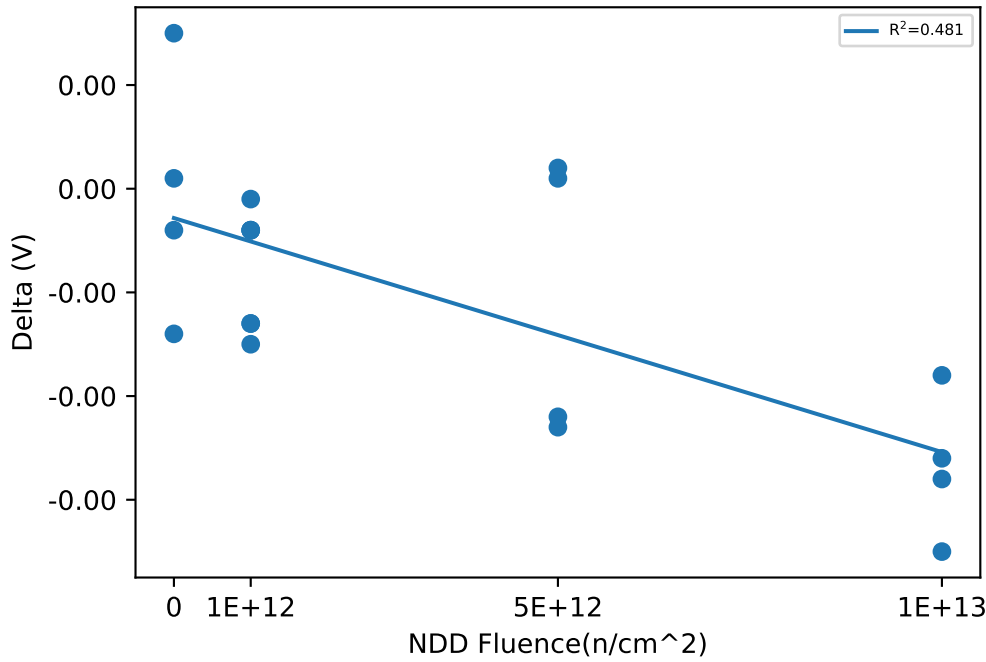
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6075	0.6062	-0.0013
171	1e+12	NDD	0.6293	0.6278	-0.0015
269	1e+12	NDD	0.6032	0.6031	-0.0001
337	1e+12	NDD	0.6092	0.6088	-0.0004
357	5e+12	NDD	0.5994	0.5971	-0.0023
361	5e+12	NDD	0.6021	0.6022	0.0001
373	5e+12	NDD	0.6126	0.6128	0.0002
412	5e+12	NDD	0.6035	0.6013	-0.0022
470	1e+13	NDD	0.5953	0.5918	-0.0035
498	1e+13	NDD	0.6096	0.6078	-0.0018
503	1e+13	NDD	0.6157	0.6131	-0.0026
540	1e+13	NDD	0.5979	0.5951	-0.0028
553	0	CORRELATION	0.6075	0.6071	-0.0004
586	0	CORRELATION	0.6196	0.6197	0.0001
634	0	CORRELATION	0.6154	0.614	-0.0014
635	0	CORRELATION	0.5948	0.5963	0.0015

NDD vs Post - Pre Exposure Delta

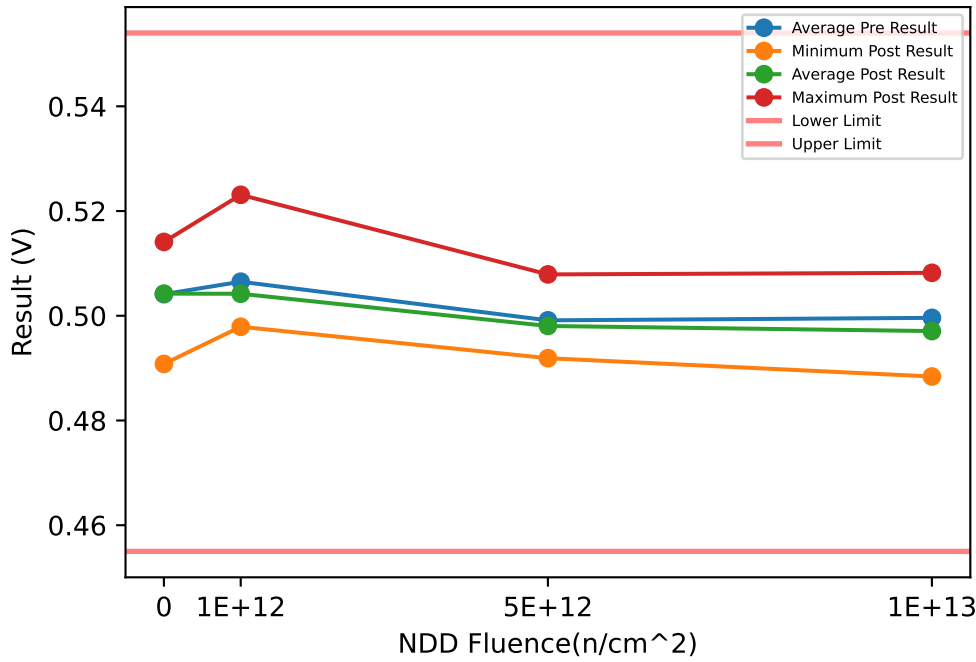


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5948	0.60933	0.6196	0.010905	0.5963	0.60928	0.6197	0.010068	-0.0014	-5e-05	0.0015	0.0012069
1e+12	0.6032	0.6123	0.6293	0.011611	0.6031	0.61147	0.6278	0.01113	-0.0015	-0.000825	-0.0001	0.00068007
5e+12	0.5994	0.6044	0.6126	0.0057254	0.5971	0.60335	0.6128	0.0066806	-0.0023	-0.00105	0.0002	0.0013868
1e+13	0.5953	0.60462	0.6157	0.0096538	0.5918	0.60195	0.6131	0.010141	-0.0035	-0.002675	-0.0018	0.0006994

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

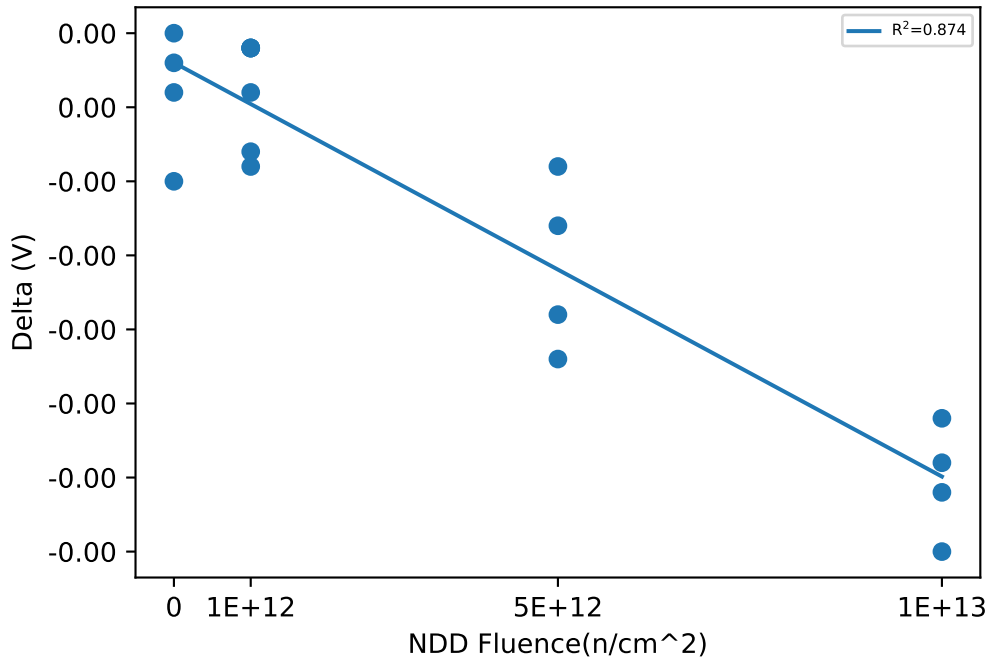
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5008	0.5012	0.0004
171	1e+12	NDD	0.5234	0.5231	-0.0003
269	1e+12	NDD	0.4983	0.4979	-0.0004
337	1e+12	NDD	0.5035	0.5036	0.0001
357	5e+12	NDD	0.4936	0.4919	-0.0017
361	5e+12	NDD	0.4974	0.496	-0.0014
373	5e+12	NDD	0.5083	0.5079	-0.0004
412	5e+12	NDD	0.4972	0.4964	-0.0008
470	1e+13	NDD	0.4905	0.4884	-0.0021
498	1e+13	NDD	0.5043	0.5019	-0.0024
503	1e+13	NDD	0.5108	0.5082	-0.0026
540	1e+13	NDD	0.4928	0.4898	-0.003
553	0	CORRELATION	0.5014	0.5019	0.0005
586	0	CORRELATION	0.514	0.5141	0.0001
634	0	CORRELATION	0.5098	0.5101	0.0003
635	0	CORRELATION	0.4913	0.4908	-0.0005

NDD vs Post - Pre Exposure Delta

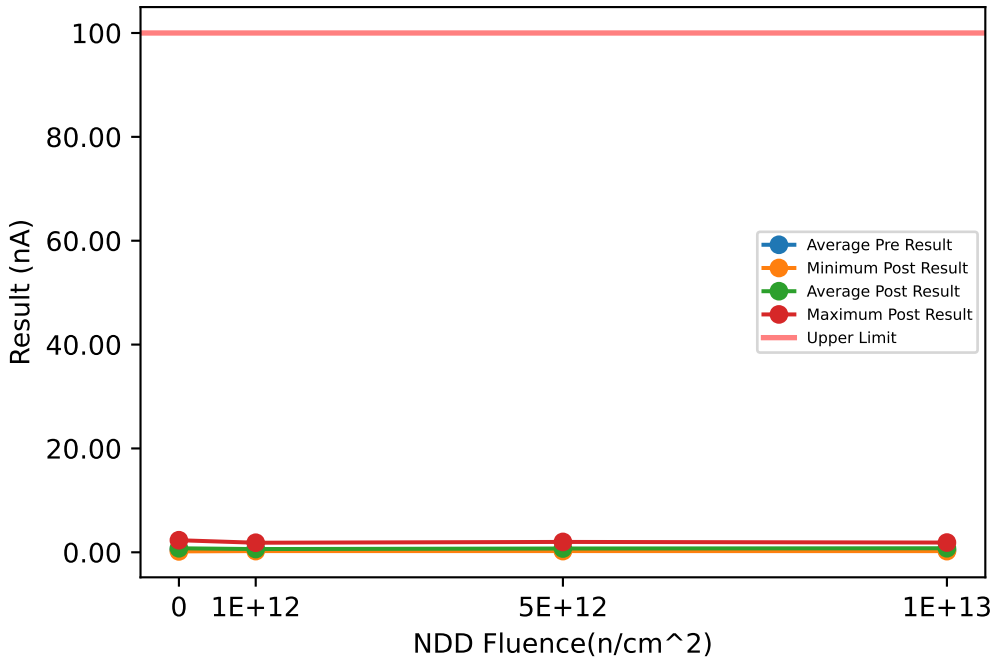


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4913	0.50413	0.514	0.010027	0.4908	0.50423	0.5141	0.01029	-0.0005	0.0001	0.0005	0.00043205
1e+12	0.4983	0.5065	0.5234	0.011465	0.4979	0.50645	0.5231	0.011343	-0.0004	-5e-05	0.0004	0.00036968
5e+12	0.4936	0.49912	0.5083	0.006361	0.4919	0.49805	0.5079	0.0068743	-0.0017	-0.001075	-0.0004	0.00058523
1e+13	0.4905	0.4996	0.5108	0.0096017	0.4884	0.49707	0.5082	0.0095782	-0.003	-0.002525	-0.0021	0.00037749

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

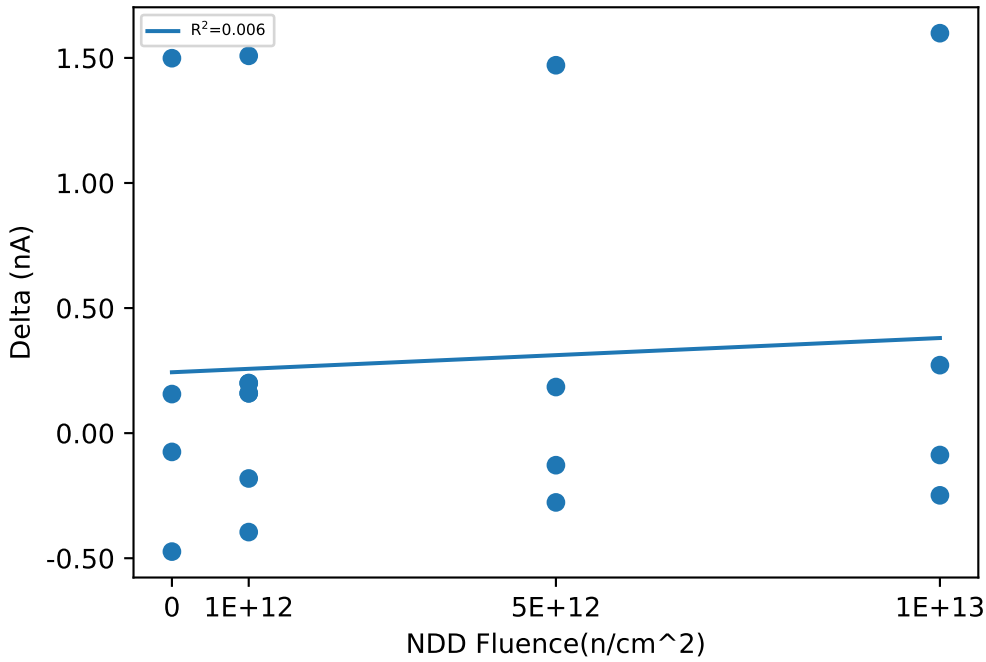
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.1528	0.3528	0.2
171	1e+12	NDD	0.3341	1.8424	1.5083
269	1e+12	NDD	1.1614	0.9802	-0.1812
337	1e+12	NDD	0.6296	0.2341	-0.3955
357	5e+12	NDD	0.1528	0.3371	0.1843
361	5e+12	NDD	0.5278	1.9985	1.4707
373	5e+12	NDD	0.3622	0.2341	-0.1281
412	5e+12	NDD	0.6327	0.3558	-0.2769
470	1e+13	NDD	0.2339	0.5057	0.2718
498	1e+13	NDD	0.2779	1.8767	1.5988
503	1e+13	NDD	0.3122	0.2248	-0.0874
540	1e+13	NDD	0.7574	0.5088	-0.2486
553	0	CORRELATION	0.1778	0.334	0.1562
586	0	CORRELATION	0.8276	2.3264	1.4988
634	0	CORRELATION	0.3341	0.2591	-0.075
635	0	CORRELATION	0.6483	0.1748	-0.4735

NDD vs Post - Pre Exposure Delta

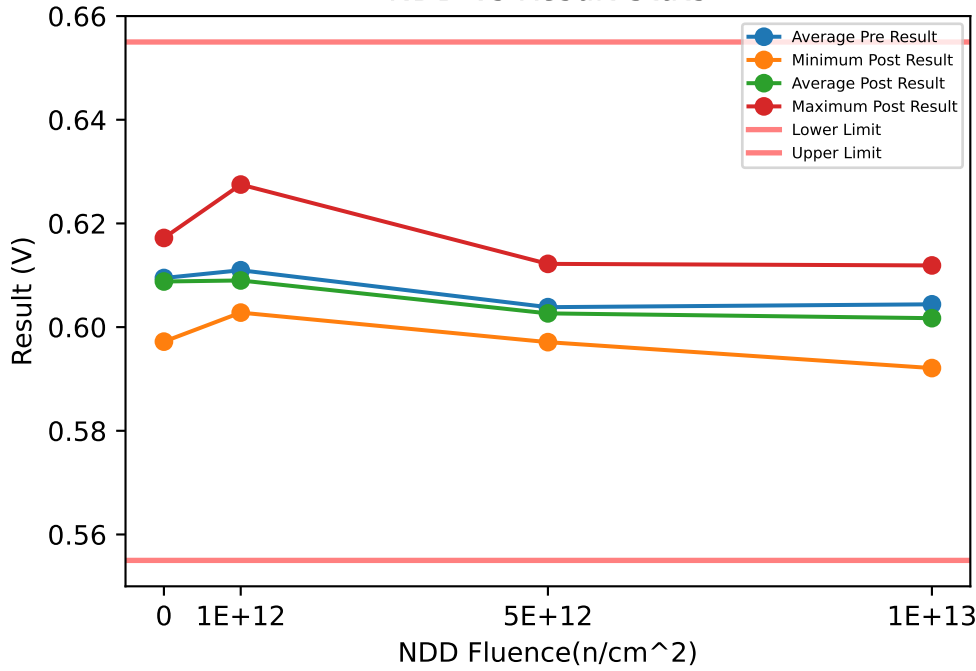


Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1778	0.49695	0.8276	0.29474	0.1748	0.77358	2.3264	1.0373	-0.4735	0.27663	1.4988	0.85529
1e+12	0.1528	0.56947	1.1614	0.44084	0.2341	0.85237	1.8424	0.73673	-0.3955	0.2829	1.5083	0.85325
5e+12	0.1528	0.41888	0.6327	0.20944	0.2341	0.73137	1.9985	0.84644	-0.2769	0.3125	1.4707	0.79569
1e+13	0.2339	0.39535	0.7574	0.24348	0.2248	0.779	1.8767	0.74382	-0.2486	0.38365	1.5988	0.83879

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

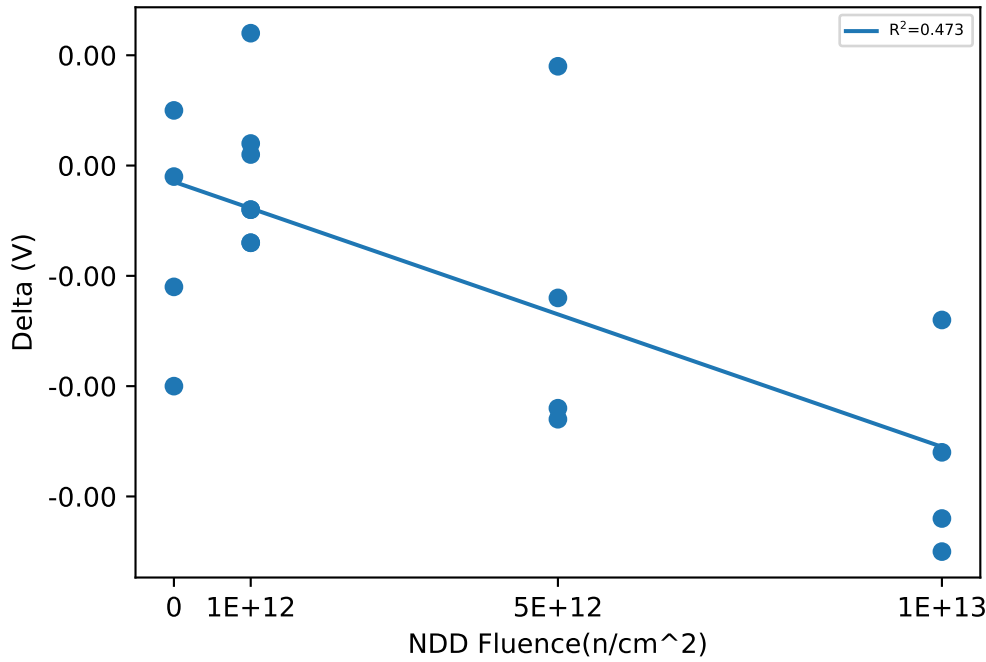
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6066	0.6059	-0.0007
171	1e+12	NDD	0.6274	0.6275	0.0001
269	1e+12	NDD	0.6026	0.6028	0.0002
337	1e+12	NDD	0.6073	0.6085	0.0012
357	5e+12	NDD	0.5994	0.5971	-0.0023
361	5e+12	NDD	0.6021	0.6009	-0.0012
373	5e+12	NDD	0.6113	0.6122	0.0009
412	5e+12	NDD	0.6026	0.6004	-0.0022
470	1e+13	NDD	0.5953	0.5921	-0.0032
498	1e+13	NDD	0.6083	0.6069	-0.0014
503	1e+13	NDD	0.6145	0.6119	-0.0026
540	1e+13	NDD	0.5995	0.596	-0.0035
553	0	CORRELATION	0.6069	0.6068	-0.0001
586	0	CORRELATION	0.6183	0.6172	-0.0011
634	0	CORRELATION	0.616	0.614	-0.002
635	0	CORRELATION	0.5967	0.5972	0.0005

NDD vs Post - Pre Exposure Delta

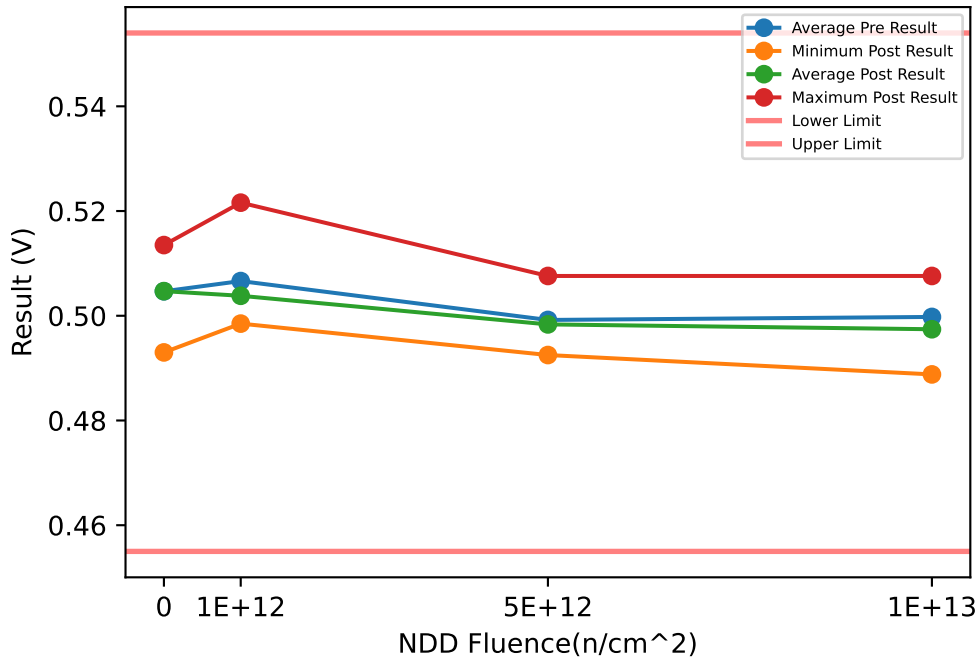


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5967	0.60947	0.6183	0.0098368	0.5972	0.6088	0.6172	0.0088724	-0.002	-0.000675	0.0005	0.0011026
1e+12	0.6026	0.61098	0.6274	0.011144	0.6028	0.61118	0.6275	0.01113	-0.0007	0.0002	0.0012	0.00077889
5e+12	0.5994	0.60385	0.6113	0.0051617	0.5971	0.60265	0.6122	0.0065861	-0.0023	-0.0012	0.0009	0.0014855
1e+13	0.5953	0.6044	0.6145	0.0086418	0.5921	0.60172	0.6119	0.0092327	-0.0035	-0.002675	-0.0014	0.00092871

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

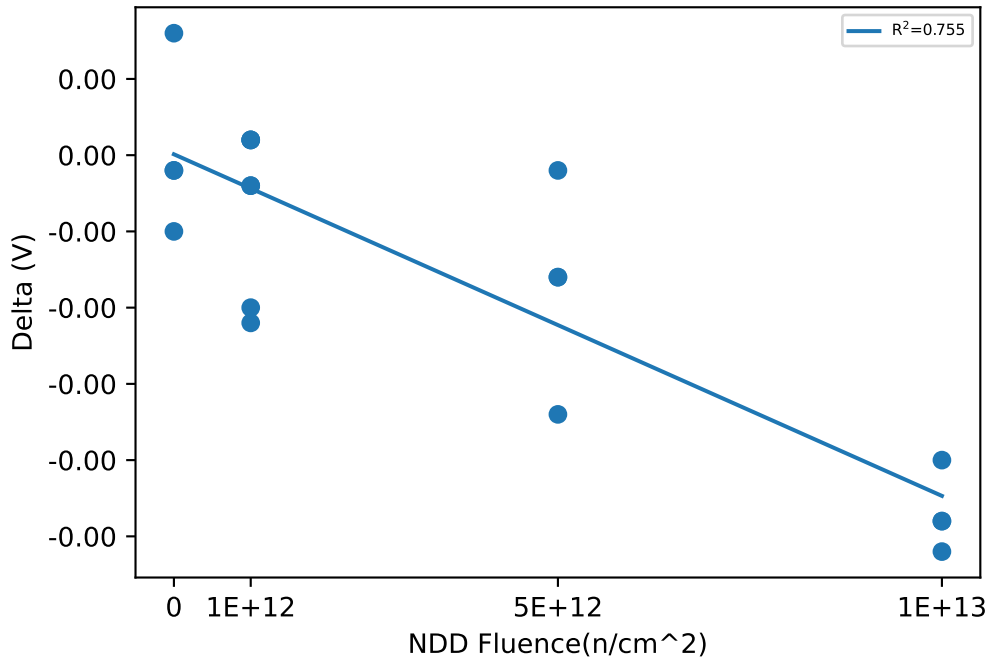
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5008	0.5006	-0.0002
171	1e+12	NDD	0.5227	0.5216	-0.0011
269	1e+12	NDD	0.4995	0.4985	-0.001
337	1e+12	NDD	0.5035	0.5036	0.0001
357	5e+12	NDD	0.4942	0.4925	-0.0017
361	5e+12	NDD	0.4974	0.4966	-0.0008
373	5e+12	NDD	0.5077	0.5076	-0.0001
412	5e+12	NDD	0.4975	0.4967	-0.0008
470	1e+13	NDD	0.4908	0.4888	-0.002
498	1e+13	NDD	0.5043	0.5019	-0.0024
503	1e+13	NDD	0.5102	0.5076	-0.0026
540	1e+13	NDD	0.4938	0.4914	-0.0024
553	0	CORRELATION	0.502	0.5019	-0.0001
586	0	CORRELATION	0.514	0.5135	-0.0005
634	0	CORRELATION	0.5105	0.5104	-0.0001
635	0	CORRELATION	0.4922	0.493	0.0008

NDD vs Post - Pre Exposure Delta

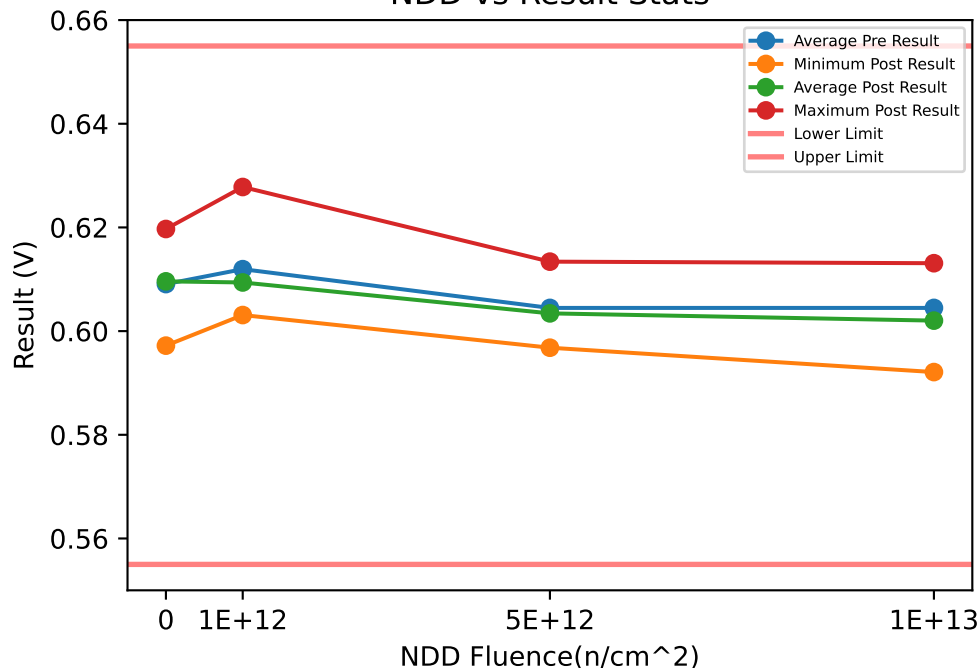


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4922	0.50467	0.514	0.009724	0.493	0.5047	0.5135	0.0092134	-0.0005	2.5e-05	0.0008	0.00055
1e+12	0.4995	0.50662	0.5227	0.010845	0.4985	0.50608	0.5216	0.010559	-0.0011	-0.00055	0.0001	0.00059161
5e+12	0.4942	0.4992	0.5077	0.0058703	0.4925	0.49835	0.5076	0.0064697	-0.0017	-0.00085	-0.0001	0.00065574
1e+13	0.4908	0.49977	0.5102	0.0090445	0.4888	0.49743	0.5076	0.0088364	-0.0026	-0.00235	-0.002	0.00025166

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

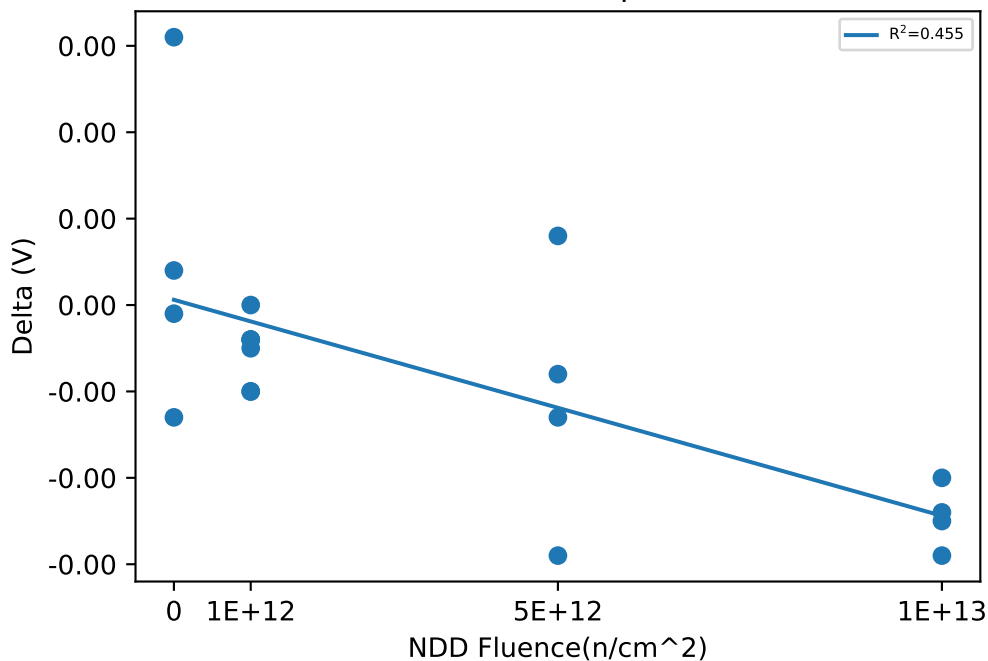
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6072	0.6062	-0.001
171	1e+12	NDD	0.6283	0.6278	-0.0005
269	1e+12	NDD	0.6035	0.6031	-0.0004
337	1e+12	NDD	0.6088	0.6088	0
357	5e+12	NDD	0.5997	0.5968	-0.0029
361	5e+12	NDD	0.6027	0.6019	-0.0008
373	5e+12	NDD	0.6126	0.6134	0.0008
412	5e+12	NDD	0.6029	0.6016	-0.0013
470	1e+13	NDD	0.595	0.5921	-0.0029
498	1e+13	NDD	0.6099	0.6075	-0.0024
503	1e+13	NDD	0.6151	0.6131	-0.002
540	1e+13	NDD	0.5979	0.5954	-0.0025
553	0	CORRELATION	0.6072	0.6071	-0.0001
586	0	CORRELATION	0.6193	0.6197	0.0004
634	0	CORRELATION	0.6157	0.6144	-0.0013
635	0	CORRELATION	0.5941	0.5972	0.0031

NDD vs Post - Pre Exposure Delta

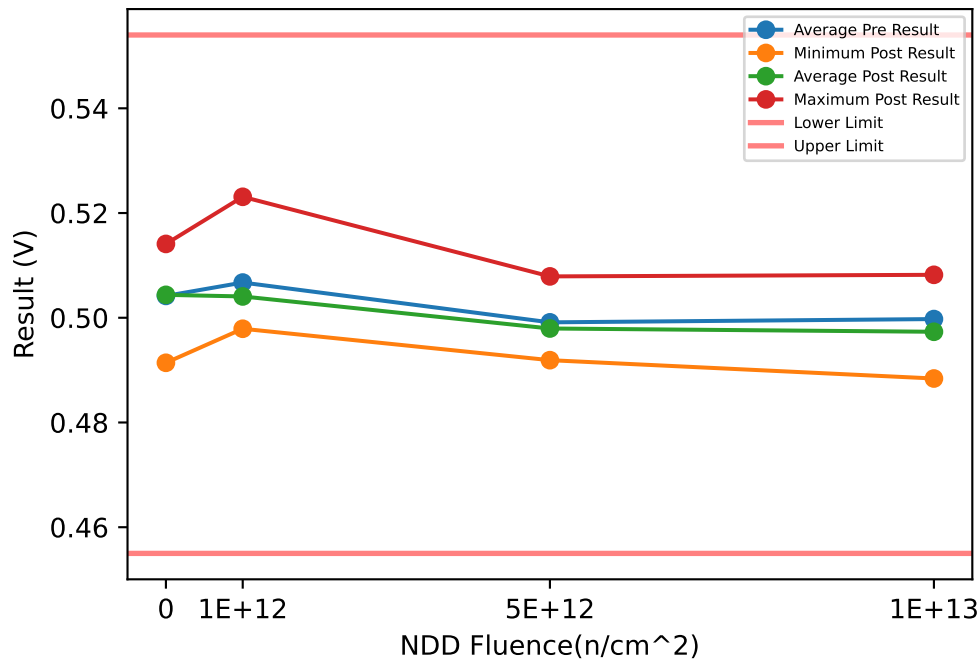


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5941	0.60908	0.6193	0.011198	0.5972	0.6096	0.6197	0.0097478	-0.0013	0.000525	0.0031	0.001859
1e+12	0.6035	0.61195	0.6283	0.011124	0.6031	0.61147	0.6278	0.01113	-0.001	-0.000475	0	0.0004113
5e+12	0.5997	0.60447	0.6126	0.0056109	0.5968	0.60342	0.6134	0.0070486	-0.0029	-0.00105	0.0008	0.0015242
1e+13	0.595	0.60447	0.6151	0.00958	0.5921	0.60203	0.6131	0.0099168	-0.0029	-0.00245	-0.002	0.00036968

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

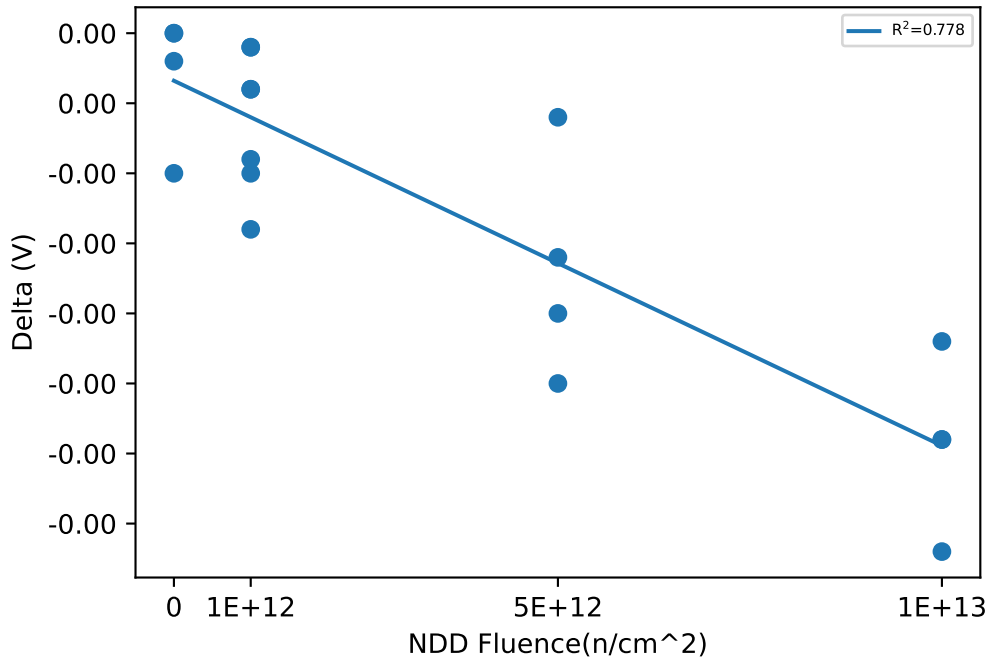
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5008	0.5009	0.0001
171	1e+12	NDD	0.524	0.5231	-0.0009
269	1e+12	NDD	0.4983	0.4979	-0.0004
337	1e+12	NDD	0.5038	0.5033	-0.0005
357	5e+12	NDD	0.4939	0.4919	-0.002
361	5e+12	NDD	0.4971	0.4956	-0.0015
373	5e+12	NDD	0.508	0.5079	-0.0001
412	5e+12	NDD	0.4975	0.4964	-0.0011
470	1e+13	NDD	0.4908	0.4884	-0.0024
498	1e+13	NDD	0.5046	0.5022	-0.0024
503	1e+13	NDD	0.5114	0.5082	-0.0032
540	1e+13	NDD	0.4922	0.4905	-0.0017
553	0	CORRELATION	0.5014	0.5019	0.0005
586	0	CORRELATION	0.5146	0.5141	-0.0005
634	0	CORRELATION	0.5098	0.5101	0.0003
635	0	CORRELATION	0.4909	0.4914	0.0005

NDD vs Post - Pre Exposure Delta

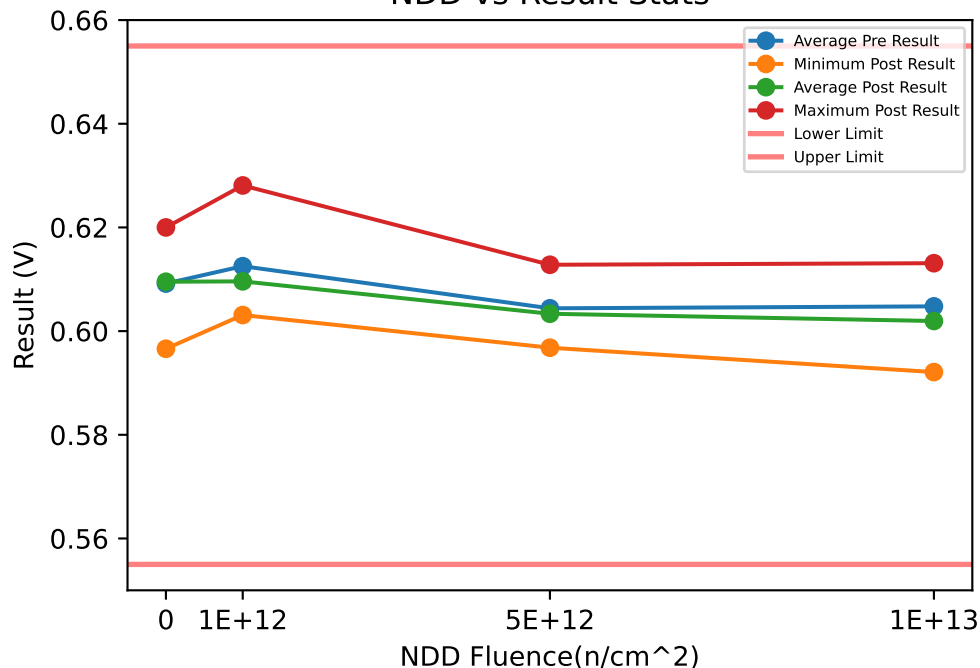


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4909	0.50418	0.5146	0.010396	0.4914	0.50438	0.5141	0.01003	-0.0005	0.0002	0.0005	0.0004761
1e+12	0.4983	0.50673	0.524	0.011734	0.4979	0.5063	0.5231	0.011416	-0.0009	-0.000425	0.0001	0.0004113
5e+12	0.4939	0.49912	0.508	0.0061321	0.4919	0.49795	0.5079	0.0069169	-0.002	-0.001175	-0.0001	0.00080571
1e+13	0.4908	0.49975	0.5114	0.009939	0.4884	0.49732	0.5082	0.0094563	-0.0032	-0.002425	-0.0017	0.00061305

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

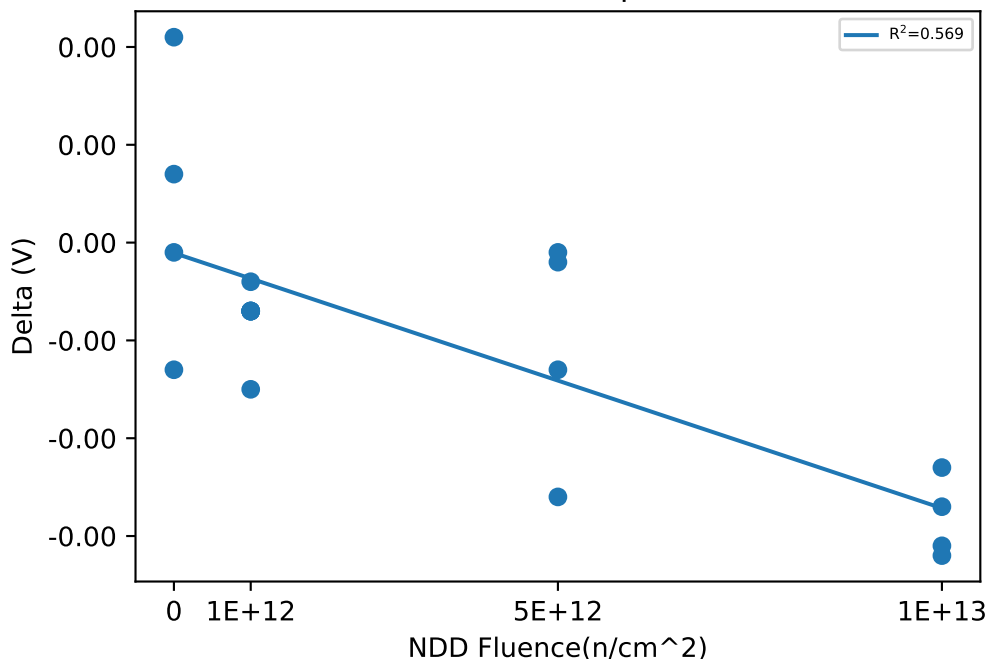
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6075	0.6068	-0.0007
171	1e+12	NDD	0.6296	0.6281	-0.0015
269	1e+12	NDD	0.6035	0.6031	-0.0004
337	1e+12	NDD	0.6095	0.6088	-0.0007
357	5e+12	NDD	0.5994	0.5968	-0.0026
361	5e+12	NDD	0.6021	0.6019	-0.0002
373	5e+12	NDD	0.6129	0.6128	-0.0001
412	5e+12	NDD	0.6032	0.6019	-0.0013
470	1e+13	NDD	0.5953	0.5921	-0.0032
498	1e+13	NDD	0.6102	0.6075	-0.0027
503	1e+13	NDD	0.6154	0.6131	-0.0023
540	1e+13	NDD	0.5982	0.5951	-0.0031
553	0	CORRELATION	0.6072	0.6071	-0.0001
586	0	CORRELATION	0.6193	0.62	0.0007
634	0	CORRELATION	0.6157	0.6144	-0.0013
635	0	CORRELATION	0.5945	0.5966	0.0021

NDD vs Post - Pre Exposure Delta

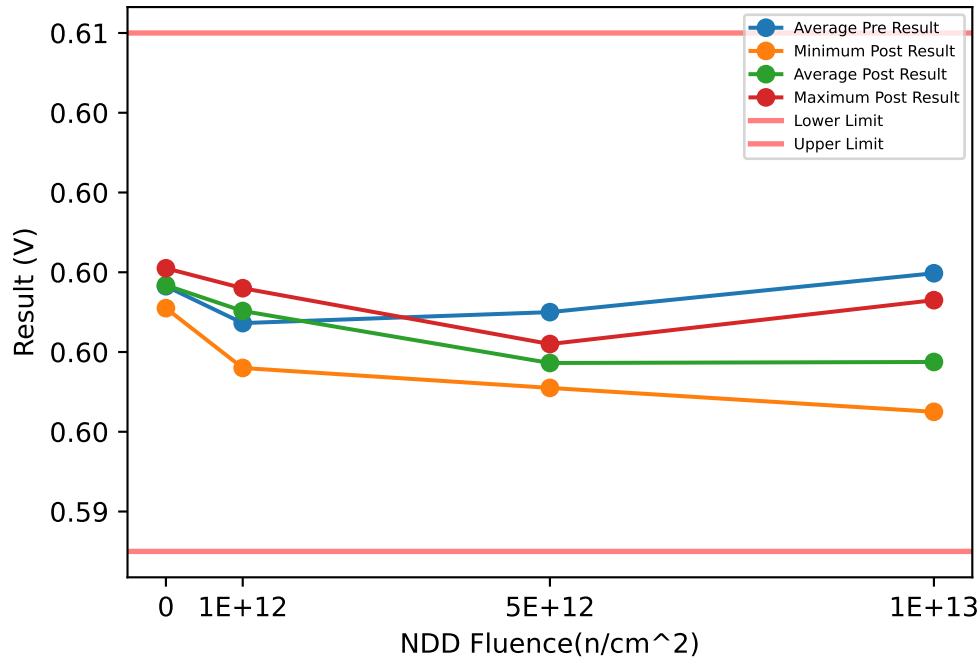


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5945	0.60918	0.6193	0.01102	0.5966	0.60952	0.62	0.010107	-0.0013	0.00035	0.0021	0.0014271
1e+12	0.6035	0.61252	0.6296	0.011653	0.6031	0.6117	0.6281	0.011185	-0.0015	-0.000825	-0.0004	0.0004717
5e+12	0.5994	0.6044	0.6129	0.0058873	0.5968	0.60335	0.6128	0.0067431	-0.0026	-0.00105	-0.0001	0.0011676
1e+13	0.5953	0.60477	0.6154	0.00958	0.5921	0.60195	0.6131	0.0099845	-0.0032	-0.002825	-0.0023	0.0004113

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

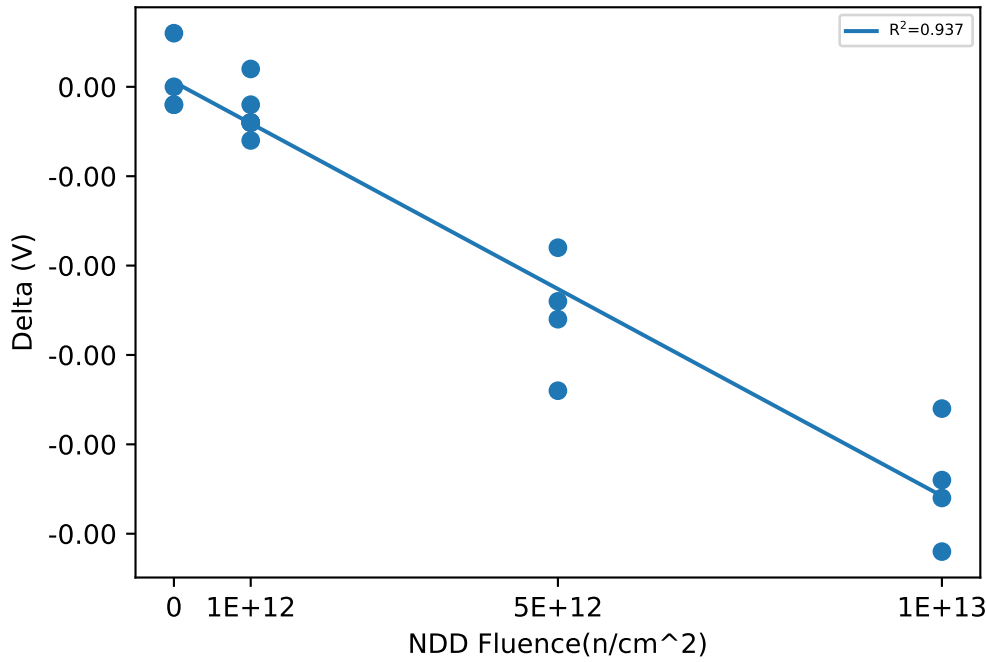
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5998	0.5996	-0.0002
171	1e+12	NDD	0.5993	0.5992	-0.0001
269	1e+12	NDD	0.5975	0.5976	0.0001
337	1e+12	NDD	0.5983	0.598	-0.0003
357	5e+12	NDD	0.5997	0.598	-0.0017
361	5e+12	NDD	0.5985	0.5976	-0.0009
373	5e+12	NDD	0.5984	0.5971	-0.0013
412	5e+12	NDD	0.5994	0.5982	-0.0012
470	1e+13	NDD	0.5991	0.5965	-0.0026
498	1e+13	NDD	0.6002	0.5979	-0.0023
503	1e+13	NDD	0.5991	0.5973	-0.0018
540	1e+13	NDD	0.6015	0.5993	-0.0022
553	0	CORRELATION	0.5999	0.5998	-0.0001
586	0	CORRELATION	0.6001	0.6001	0
634	0	CORRELATION	0.5994	0.5997	0.0003
635	0	CORRELATION	0.5992	0.5991	-0.0001

NDD vs Post - Pre Exposure Delta

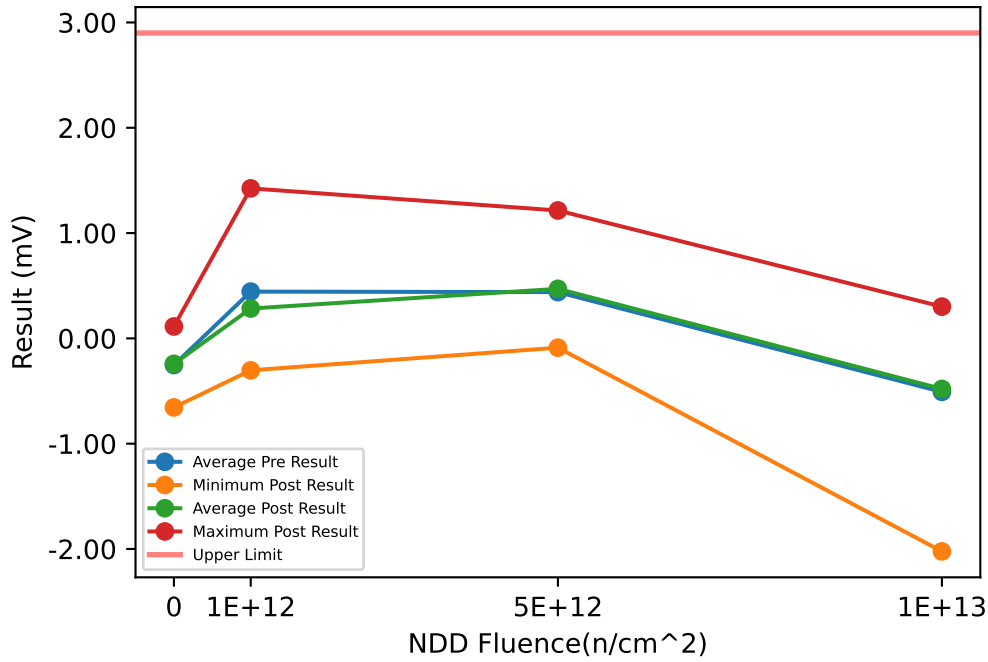


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5992	0.59965	0.6001	0.00042032	0.5991	0.59967	0.6001	0.00041932	-0.0001	2.5e-05	0.0003	0.0001893
1e+12	0.5975	0.59873	0.5998	0.0010275	0.5976	0.5986	0.5996	0.00095219	-0.0003	-0.000125	0.0001	0.00017078
5e+12	0.5984	0.599	0.5997	0.00064807	0.5971	0.59772	0.5982	0.00048563	-0.0017	-0.001275	-0.0009	0.0003304
1e+13	0.5991	0.59997	0.6015	0.0011413	0.5965	0.59775	0.5993	0.0011818	-0.0026	-0.002225	-0.0018	0.0003304

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

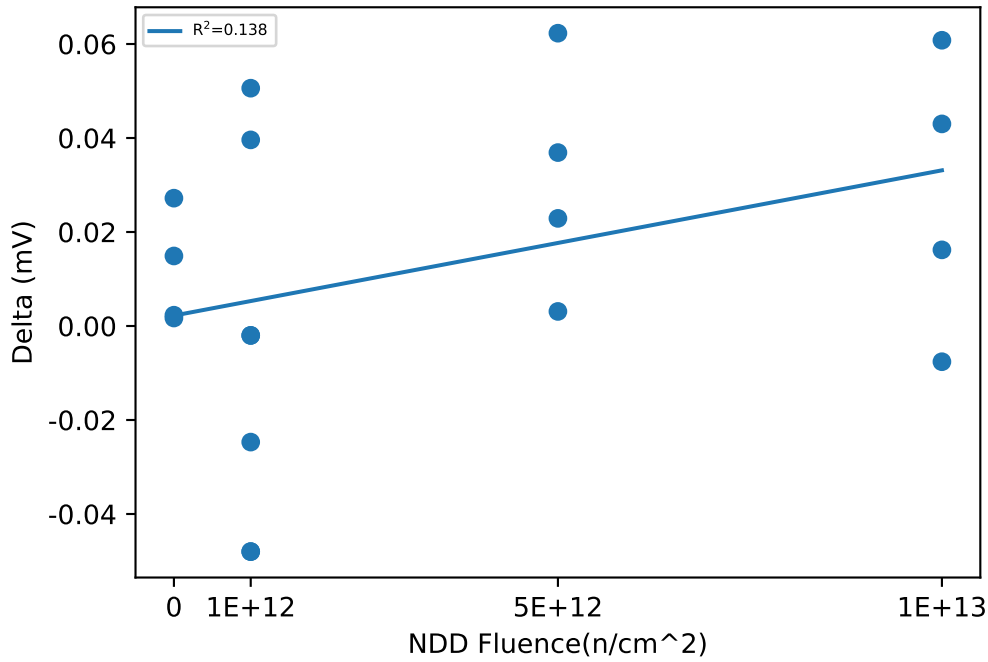
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.0806	0.0786	-0.002
171	1e+12	NDD	-0.2787	-0.3034	-0.0247
269	1e+12	NDD	1.3738	1.4244	0.0506
337	1e+12	NDD	0.6007	0.6403	0.0396
357	5e+12	NDD	0.2311	0.2934	0.0623
361	5e+12	NDD	0.4399	0.4628	0.0229
373	5e+12	NDD	1.1776	1.2145	0.0369
412	5e+12	NDD	-0.0916	-0.0885	0.0031
470	1e+13	NDD	0.2586	0.3016	0.043
498	1e+13	NDD	-0.2792	-0.263	0.0162
503	1e+13	NDD	0.0029	0.0637	0.0608
540	1e+13	NDD	-2.0154	-2.023	-0.0076
553	0	CORRELATION	-0.395	-0.3927	0.0023
586	0	CORRELATION	-0.6577	-0.656	0.0017
634	0	CORRELATION	0.0859	0.1131	0.0272
635	0	CORRELATION	-0.0468	-0.0319	0.0149

NDD vs Post - Pre Exposure Delta

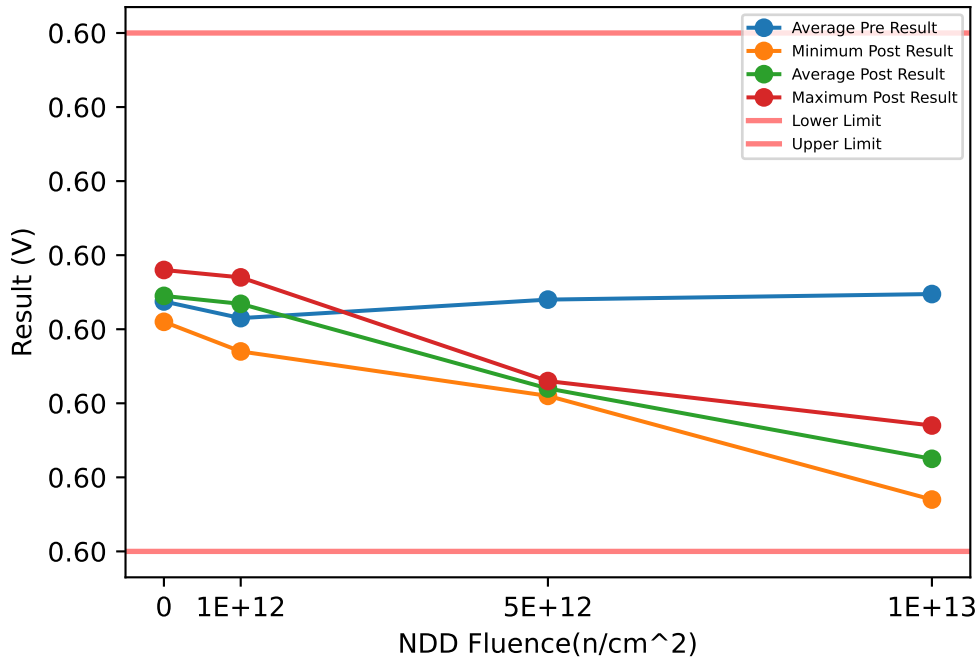


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6577	-0.2534	0.0859	0.3373	-0.656	-0.24188	0.1131	0.34849	0.0017	0.011525	0.0272	0.012093
1e+12	-0.2787	0.4441	1.3738	0.71727	-0.3034	0.45998	1.4244	0.75074	-0.0247	0.015875	0.0506	0.035282
5e+12	-0.0916	0.43925	1.1776	0.53861	-0.0885	0.47055	1.2145	0.54694	0.0031	0.0313	0.0623	0.024887
1e+13	-2.0154	-0.50828	0.2586	1.0285	-2.023	-0.48018	0.3016	1.0543	-0.0076	0.0281	0.0608	0.030041

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

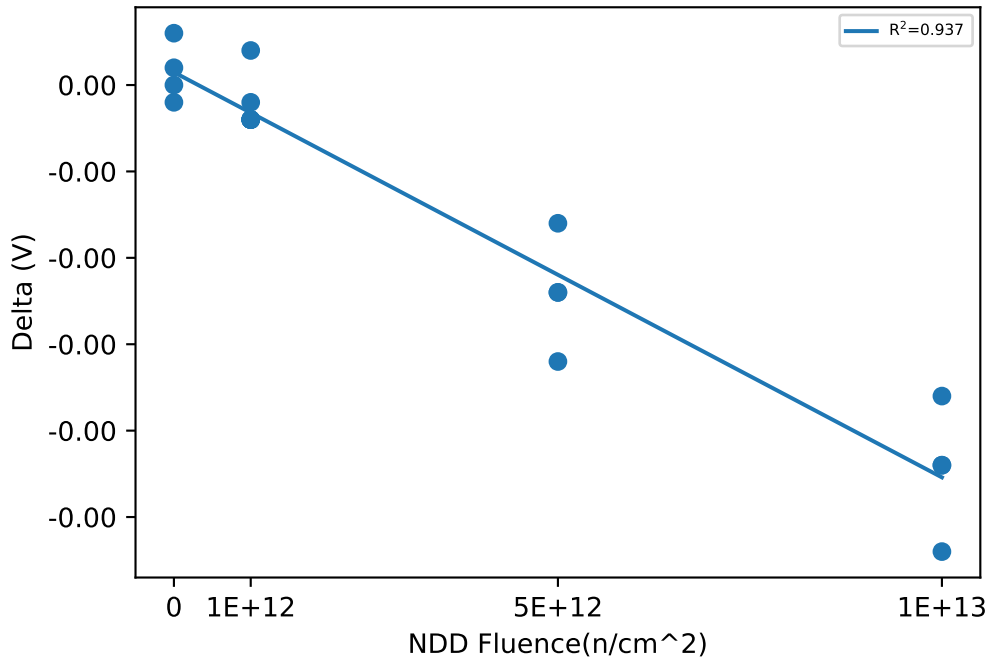
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5999	0.5997	-0.0002
171	1e+12	NDD	0.599	0.5989	-0.0001
269	1e+12	NDD	0.5988	0.599	0.0002
337	1e+12	NDD	0.5989	0.5987	-0.0002
357	5e+12	NDD	0.5999	0.5983	-0.0016
361	5e+12	NDD	0.5989	0.5981	-0.0008
373	5e+12	NDD	0.5995	0.5983	-0.0012
412	5e+12	NDD	0.5993	0.5981	-0.0012
470	1e+13	NDD	0.5994	0.5967	-0.0027
498	1e+13	NDD	0.5999	0.5977	-0.0022
503	1e+13	NDD	0.5991	0.5973	-0.0018
540	1e+13	NDD	0.5995	0.5973	-0.0022
553	0	CORRELATION	0.5995	0.5994	-0.0001
586	0	CORRELATION	0.5994	0.5995	0.0001
634	0	CORRELATION	0.5995	0.5998	0.0003
635	0	CORRELATION	0.5991	0.5991	0

NDD vs Post - Pre Exposure Delta

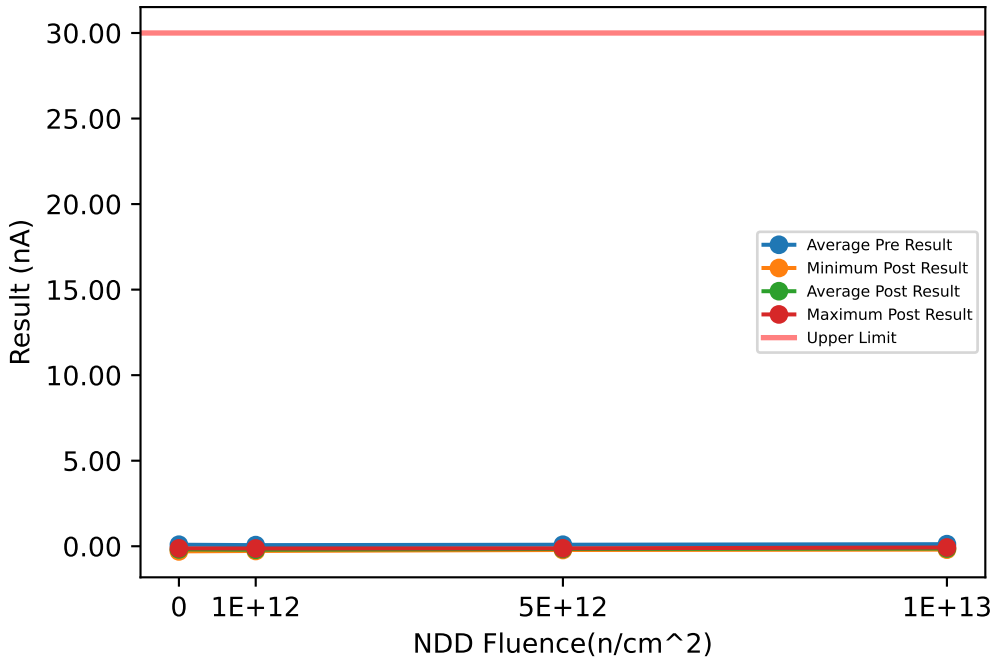


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5991	0.59937	0.5995	0.0001893	0.5991	0.59945	0.5998	0.00028868	-0.0001	7.5e-05	0.0003	0.00017078
1e+12	0.5988	0.59915	0.5999	0.00050662	0.5987	0.59908	0.5997	0.00043493	-0.0002	-7.5e-05	0.0002	0.0001893
5e+12	0.5989	0.5994	0.5999	0.00041633	0.5981	0.5982	0.5983	0.00011547	-0.0016	-0.0012	-0.0008	0.0003266
1e+13	0.5991	0.59947	0.5999	0.0003304	0.5967	0.59725	0.5977	0.00041231	-0.0027	-0.002225	-0.0018	0.00036856

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

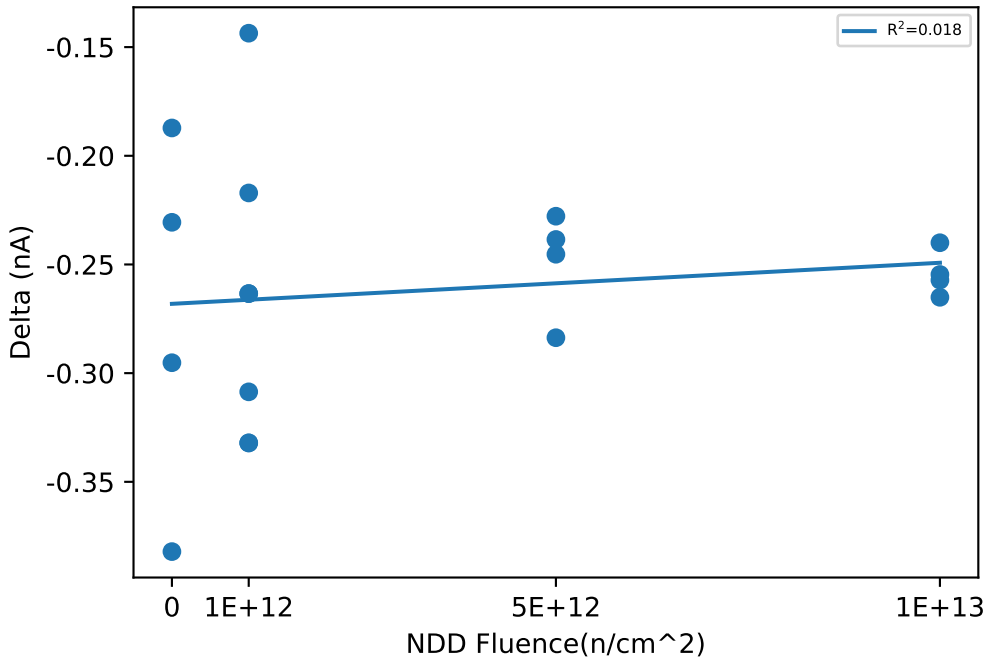
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.056	-0.2074	-0.2634
171	1e+12	NDD	0.1294	-0.1792	-0.3086
269	1e+12	NDD	0.0861	-0.131	-0.2171
337	1e+12	NDD	-0.0069	-0.1505	-0.1436
357	5e+12	NDD	0.0186	-0.2199	-0.2385
361	5e+12	NDD	0.1232	-0.1605	-0.2837
373	5e+12	NDD	0.108	-0.1373	-0.2453
412	5e+12	NDD	0.1054	-0.1224	-0.2278
470	1e+13	NDD	0.0591	-0.1981	-0.2572
498	1e+13	NDD	0.1669	-0.0731	-0.24
503	1e+13	NDD	0.0736	-0.181	-0.2546
540	1e+13	NDD	0.1864	-0.0787	-0.2651
553	0	CORRELATION	0.081	-0.3011	-0.3821
586	0	CORRELATION	0.1076	-0.123	-0.2306
634	0	CORRELATION	0.1298	-0.1654	-0.2952
635	0	CORRELATION	0.043	-0.1442	-0.1872

NDD vs Post - Pre Exposure Delta

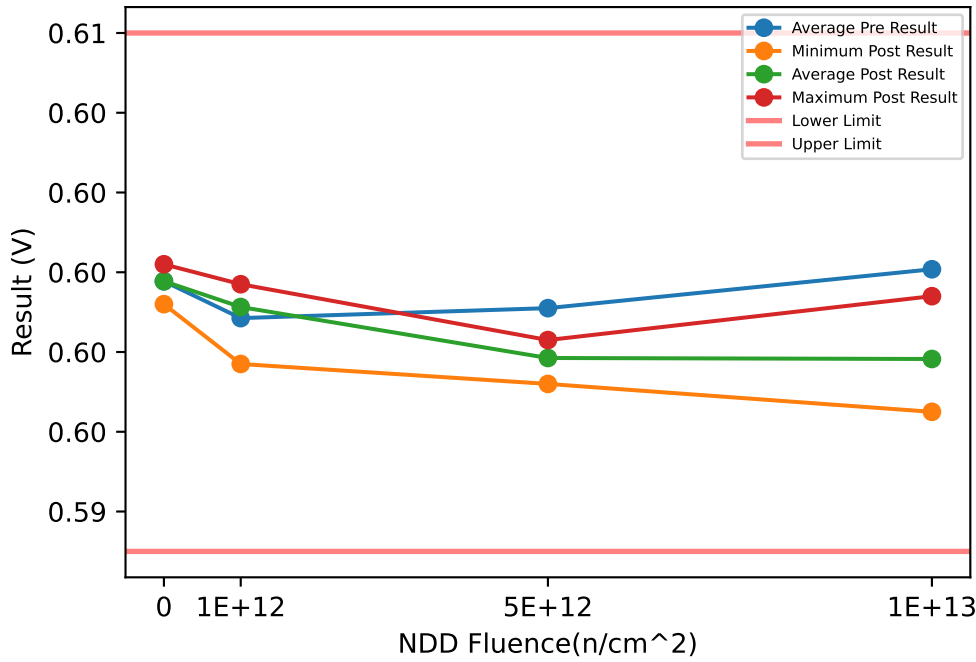


Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.043	0.09035	0.1298	0.037342	-0.3011	-0.18343	-0.123	0.080337	-0.3821	-0.27377	-0.1872	0.08476
1e+12	-0.0069	0.06615	0.1294	0.057265	-0.2074	-0.16703	-0.131	0.033413	-0.3086	-0.23318	-0.1436	0.070438
5e+12	0.0186	0.0888	0.1232	0.047454	-0.2199	-0.16003	-0.1224	0.042885	-0.2837	-0.24883	-0.2278	0.02434
1e+13	0.0591	0.1215	0.1864	0.06445	-0.1981	-0.13273	-0.0731	0.066026	-0.2651	-0.25422	-0.24	0.010482

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

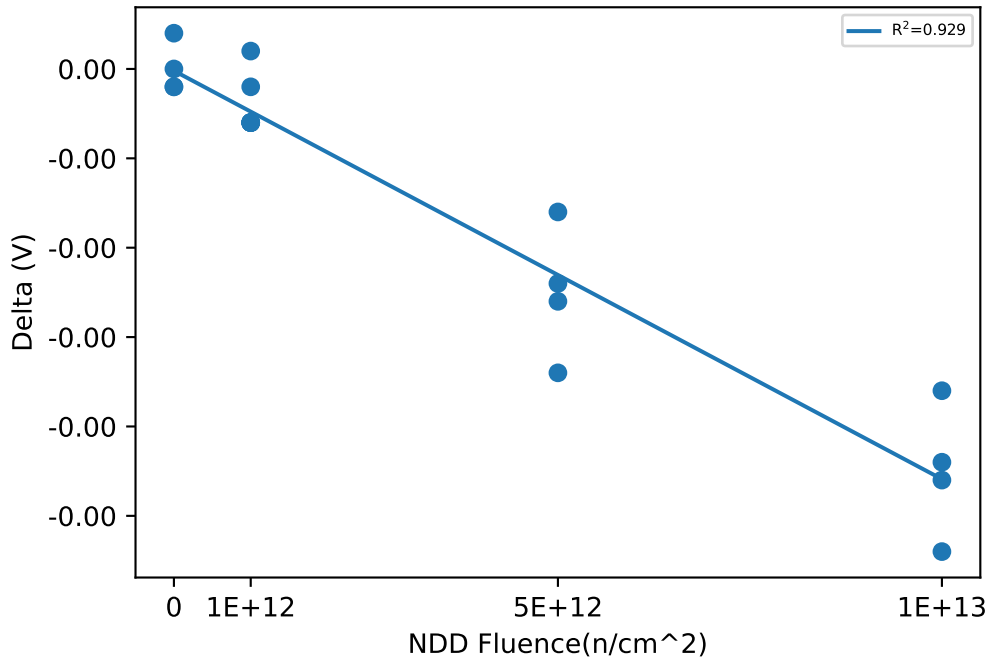
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.5997	-0.0003
171	1e+12	NDD	0.5994	0.5993	-0.0001
269	1e+12	NDD	0.5976	0.5977	0.0001
337	1e+12	NDD	0.5984	0.5981	-0.0003
357	5e+12	NDD	0.5998	0.5981	-0.0017
361	5e+12	NDD	0.5986	0.5978	-0.0008
373	5e+12	NDD	0.5985	0.5972	-0.0013
412	5e+12	NDD	0.5995	0.5983	-0.0012
470	1e+13	NDD	0.5992	0.5965	-0.0027
498	1e+13	NDD	0.6003	0.598	-0.0023
503	1e+13	NDD	0.5992	0.5974	-0.0018
540	1e+13	NDD	0.6016	0.5994	-0.0022
553	0	CORRELATION	0.6	0.5999	-0.0001
586	0	CORRELATION	0.6002	0.6002	0
634	0	CORRELATION	0.5996	0.5998	0.0002
635	0	CORRELATION	0.5993	0.5992	-0.0001

NDD vs Post - Pre Exposure Delta

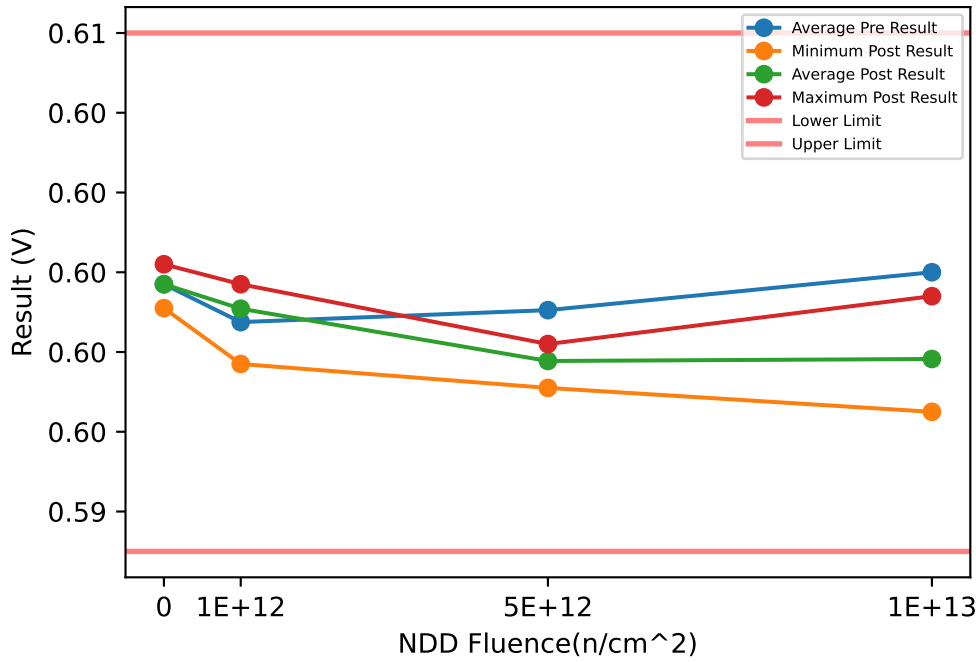


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5993	0.59977	0.6002	0.00040311	0.5992	0.59977	0.6002	0.00041932	-0.0001	-2.7756e-17	0.0002	0.00014142
1e+12	0.5976	0.59885	0.6	0.001063	0.5977	0.5987	0.5997	0.00095219	-0.0003	-0.00015	0.0001	0.00019149
5e+12	0.5985	0.5991	0.5998	0.00064807	0.5972	0.59785	0.5983	0.00047958	-0.0017	-0.00125	-0.0008	0.00036968
1e+13	0.5992	0.60007	0.6016	0.0011413	0.5965	0.59783	0.5994	0.0012176	-0.0027	-0.00225	-0.0018	0.00036968

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

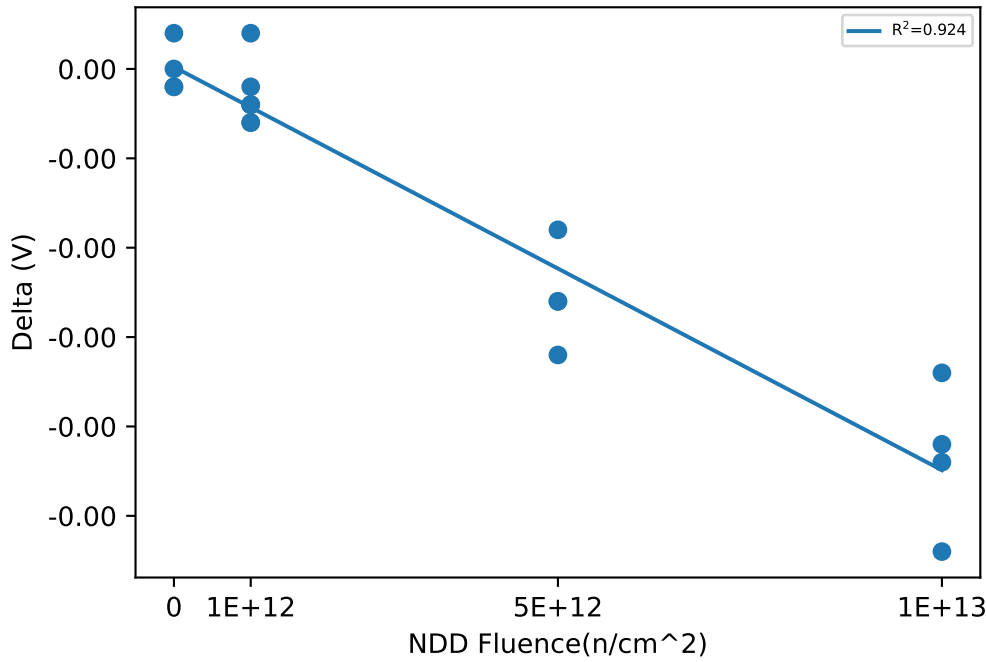
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5999	0.5996	-0.0003
171	1e+12	NDD	0.5993	0.5992	-0.0001
269	1e+12	NDD	0.5975	0.5977	0.0002
337	1e+12	NDD	0.5983	0.5981	-0.0002
357	5e+12	NDD	0.5997	0.5981	-0.0016
361	5e+12	NDD	0.5986	0.5977	-0.0009
373	5e+12	NDD	0.5984	0.5971	-0.0013
412	5e+12	NDD	0.5995	0.5982	-0.0013
470	1e+13	NDD	0.5992	0.5965	-0.0027
498	1e+13	NDD	0.6002	0.598	-0.0022
503	1e+13	NDD	0.5991	0.5974	-0.0017
540	1e+13	NDD	0.6015	0.5994	-0.0021
553	0	CORRELATION	0.5999	0.5998	-0.0001
586	0	CORRELATION	0.6002	0.6002	0
634	0	CORRELATION	0.5995	0.5997	0.0002
635	0	CORRELATION	0.5992	0.5991	-0.0001

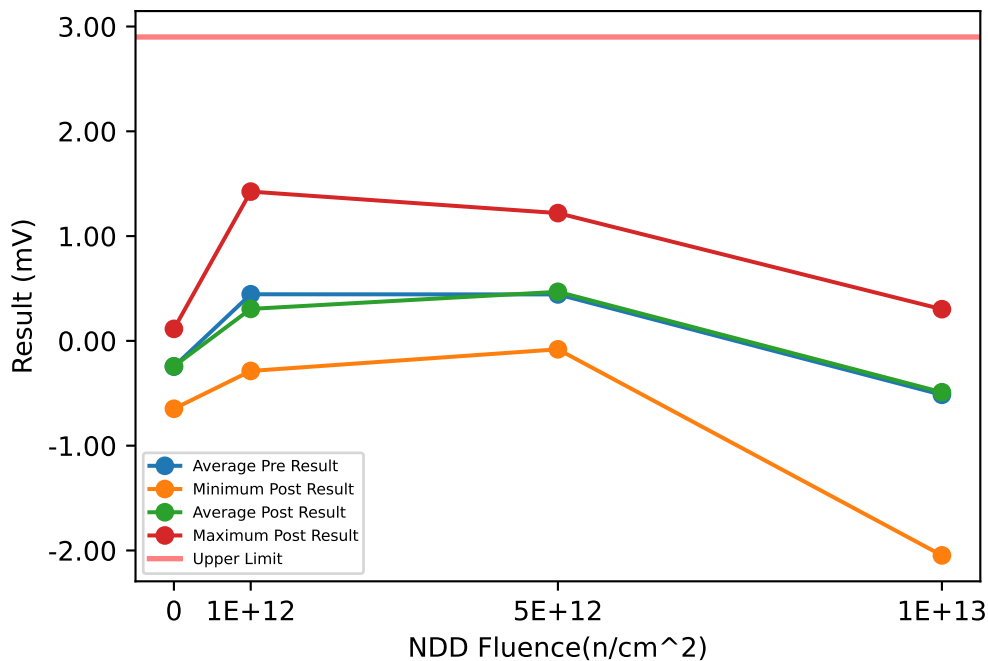
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5992	0.5997	0.6002	0.0004397	0.5991	0.5997	0.6002	0.00045461	-0.0001	0	0.0002	0.00014142
1e+12	0.5975	0.59875	0.5999	0.001063	0.5977	0.59865	0.5996	0.00089629	-0.0003	-0.0001	0.0002	0.00021602
5e+12	0.5984	0.59905	0.5997	0.0006455	0.5971	0.59777	0.5982	0.00049917	-0.0016	-0.001275	-0.0009	0.00028723
1e+13	0.5991	0.6	0.6015	0.0011165	0.5965	0.59783	0.5994	0.0012176	-0.0027	-0.002175	-0.0017	0.0004113

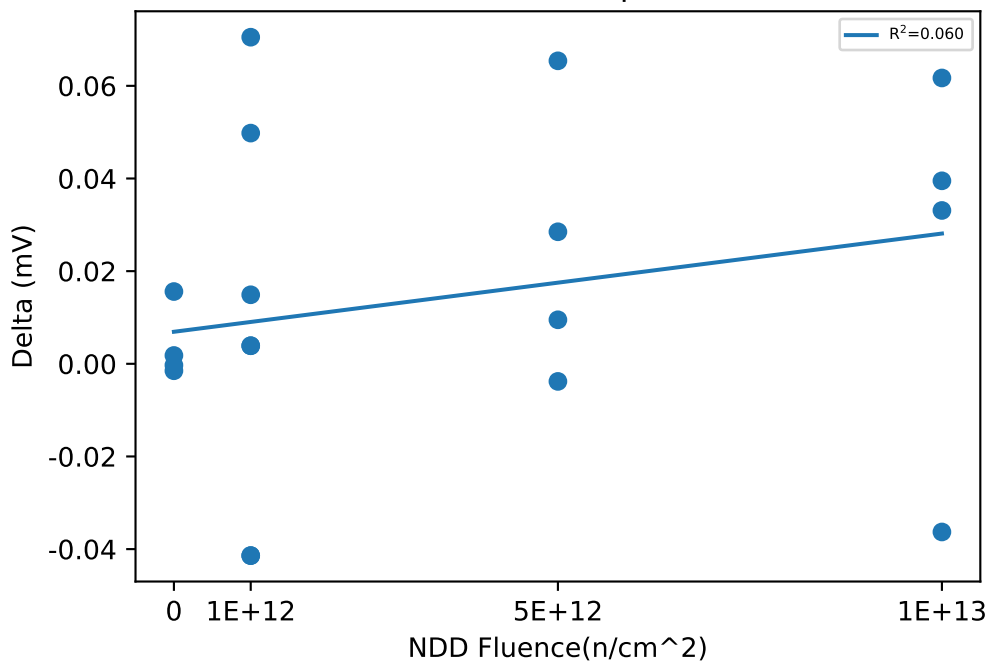
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.0991	0.103	0.0039
171	1e+12	NDD	-0.3018	-0.2869	0.0149
269	1e+12	NDD	1.3748	1.4246	0.0498
337	1e+12	NDD	0.6073	0.6778	0.0705
357	5e+12	NDD	0.2207	0.2861	0.0654
361	5e+12	NDD	0.4199	0.4484	0.0285
373	5e+12	NDD	1.21	1.2195	0.0095
412	5e+12	NDD	-0.0767	-0.0805	-0.0038
470	1e+13	NDD	0.2409	0.3026	0.0617
498	1e+13	NDD	-0.2789	-0.2458	0.0331
503	1e+13	NDD	-0.0088	0.0307	0.0395
540	1e+13	NDD	-2.0107	-2.047	-0.0363
553	0	CORRELATION	-0.4047	-0.3891	0.0156
586	0	CORRELATION	-0.6475	-0.6478	-0.0003
634	0	CORRELATION	0.1128	0.1146	0.0018
635	0	CORRELATION	-0.0438	-0.0453	-0.0015

NDD vs Post - Pre Exposure Delta

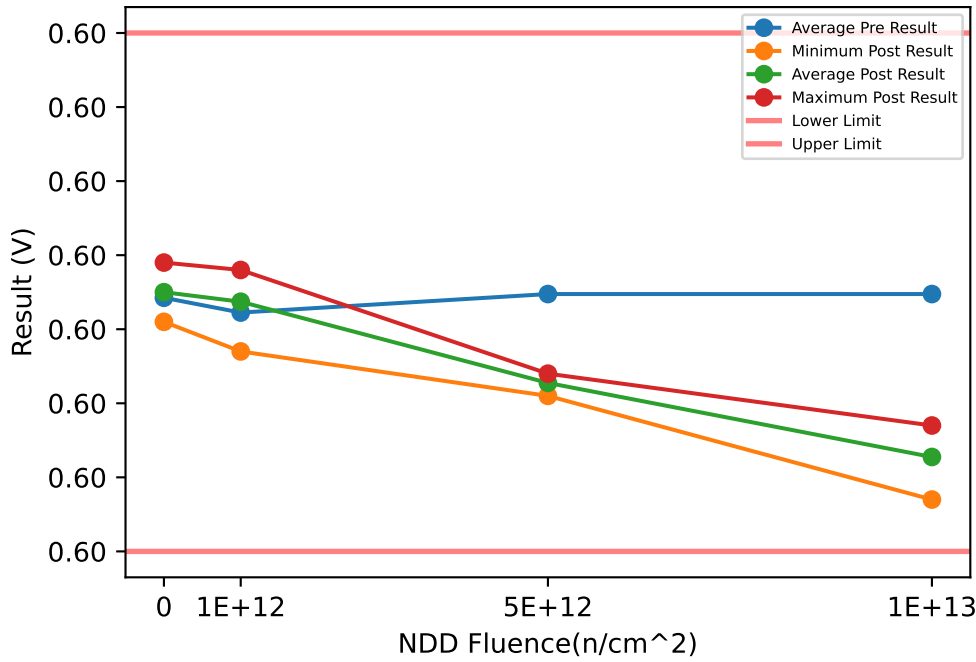


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6475	-0.2458	0.1128	0.34449	-0.6478	-0.2419	0.1146	0.34262	-0.0015	0.0039	0.0156	0.0079183
1e+12	-0.3018	0.44485	1.3748	0.72301	-0.2869	0.47963	1.4246	0.74424	0.0039	0.034775	0.0705	0.030824
5e+12	-0.0767	0.44348	1.21	0.55025	-0.0805	0.46838	1.2195	0.54744	-0.0038	0.0249	0.0654	0.030078
1e+13	-2.0107	-0.51438	0.2409	1.0199	-2.047	-0.48988	0.3026	1.062	-0.0363	0.0245	0.0617	0.042346

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

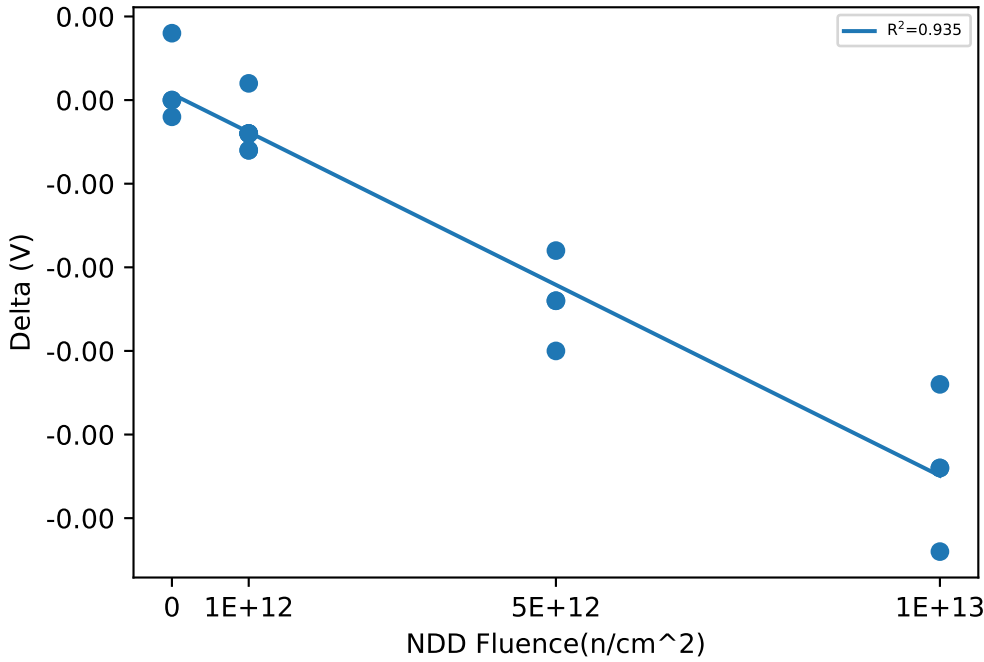
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.5998	-0.0002
171	1e+12	NDD	0.5991	0.5989	-0.0002
269	1e+12	NDD	0.5989	0.599	0.0001
337	1e+12	NDD	0.5989	0.5987	-0.0002
357	5e+12	NDD	0.5999	0.5984	-0.0015
361	5e+12	NDD	0.599	0.5981	-0.0009
373	5e+12	NDD	0.5996	0.5984	-0.0012
412	5e+12	NDD	0.5994	0.5982	-0.0012
470	1e+13	NDD	0.5994	0.5967	-0.0027
498	1e+13	NDD	0.5999	0.5977	-0.0022
503	1e+13	NDD	0.5991	0.5974	-0.0017
540	1e+13	NDD	0.5995	0.5973	-0.0022
553	0	CORRELATION	0.5995	0.5995	0
586	0	CORRELATION	0.5995	0.5995	0
634	0	CORRELATION	0.5995	0.5999	0.0004
635	0	CORRELATION	0.5992	0.5991	-0.0001

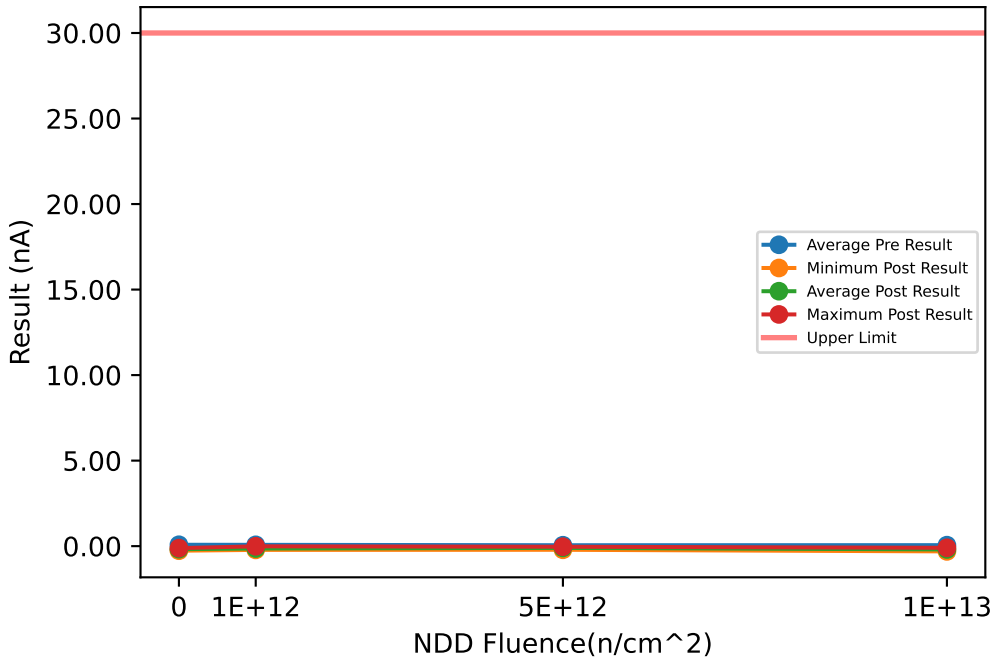
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5992	0.59942	0.5995	0.00015	0.5991	0.5995	0.5999	0.0003266	-0.0001	7.5e-05	0.0004	0.00022174
1e+12	0.5989	0.59923	0.6	0.0005252	0.5987	0.5991	0.5998	0.00048305	-0.0002	-0.000125	0.0001	0.00015
5e+12	0.599	0.59947	0.5999	0.00037749	0.5981	0.59828	0.5984	0.00015	-0.0015	-0.0012	-0.0009	0.00024495
1e+13	0.5991	0.59947	0.5999	0.0003304	0.5967	0.59728	0.5977	0.00041932	-0.0027	-0.0022	-0.0017	0.00040825

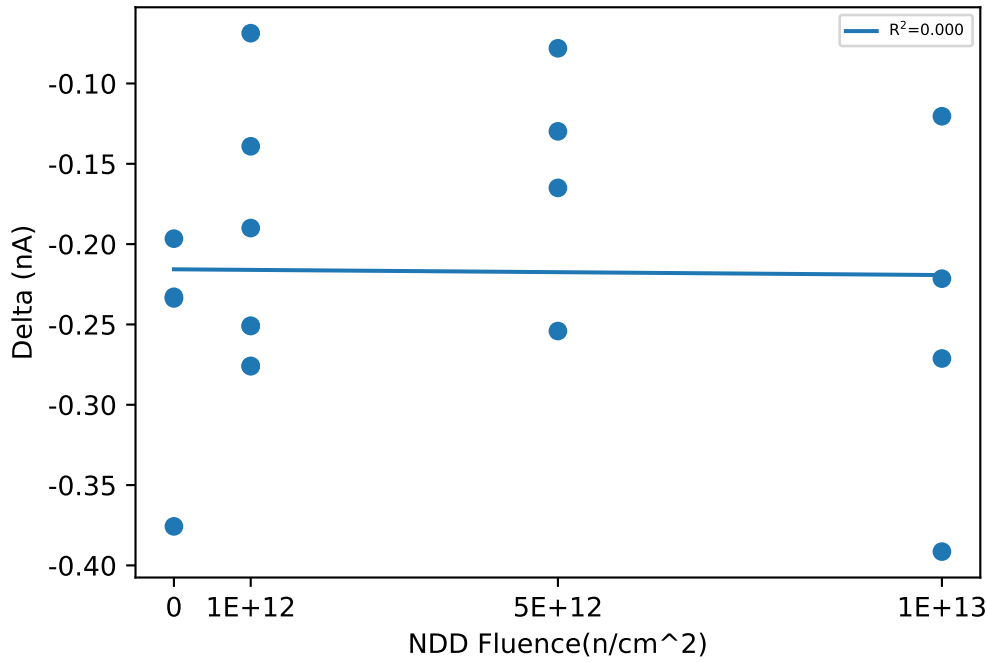
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.056	-0.1949	-0.2509
171	1e+12	NDD	0.0826	-0.1074	-0.19
269	1e+12	NDD	0.1298	-0.0093	-0.1391
337	1e+12	NDD	0.0399	-0.0288	-0.0687
357	5e+12	NDD	0.0404	-0.2137	-0.2541
361	5e+12	NDD	0.1013	-0.0637	-0.165
373	5e+12	NDD	0.0955	-0.0343	-0.1298
412	5e+12	NDD	-0.0224	-0.1005	-0.0781
470	1e+13	NDD	0.0841	-0.3073	-0.3914
498	1e+13	NDD	0.0764	-0.1948	-0.2712
503	1e+13	NDD	0.0237	-0.0967	-0.1204
540	1e+13	NDD	0.0461	-0.1754	-0.2215
553	0	CORRELATION	0.109	-0.2667	-0.3757
586	0	CORRELATION	0.117	-0.1168	-0.2338
634	0	CORRELATION	0.0674	-0.1654	-0.2328
635	0	CORRELATION	0.0305	-0.1661	-0.1966

NDD vs Post - Pre Exposure Delta

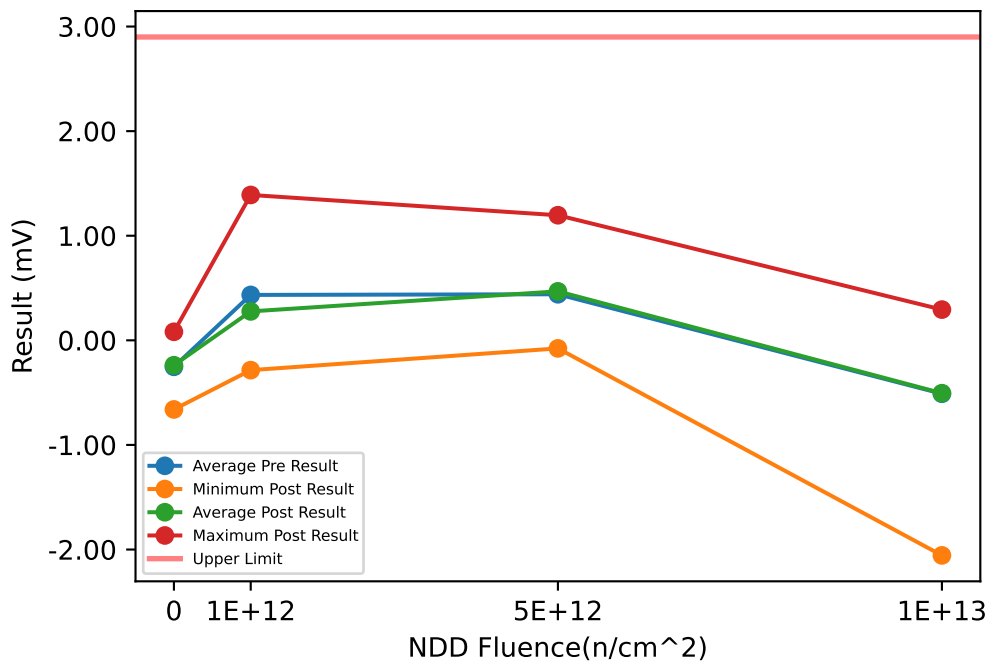


Test Statistics (nA)

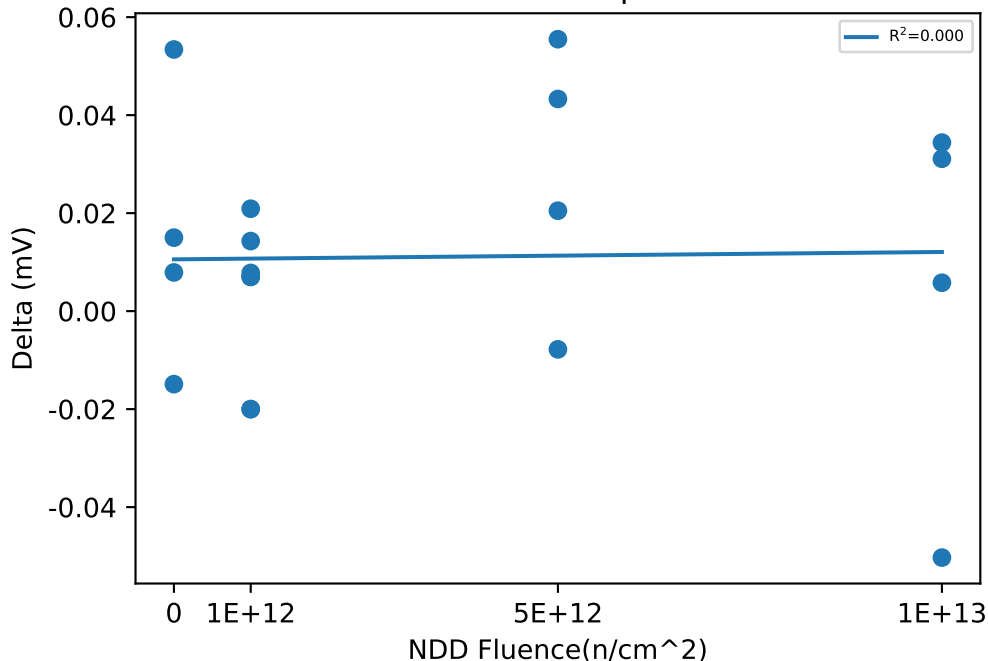
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.0305	0.080975	0.117	0.040063	-0.2667	-0.17875	-0.1168	0.063011	-0.3757	-0.25972	-0.1966	0.07923
1e+12	0.0399	0.077075	0.1298	0.039313	-0.1949	-0.0851	-0.0093	0.084594	-0.2509	-0.16218	-0.0687	0.07728
5e+12	-0.0224	0.0537	0.1013	0.05768	-0.2137	-0.10305	-0.0343	0.078581	-0.2541	-0.15675	-0.0781	0.074066
1e+13	0.0237	0.057575	0.0841	0.027911	-0.3073	-0.19355	-0.0967	0.086891	-0.3914	-0.25112	-0.1204	0.11262

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.9 (mV))

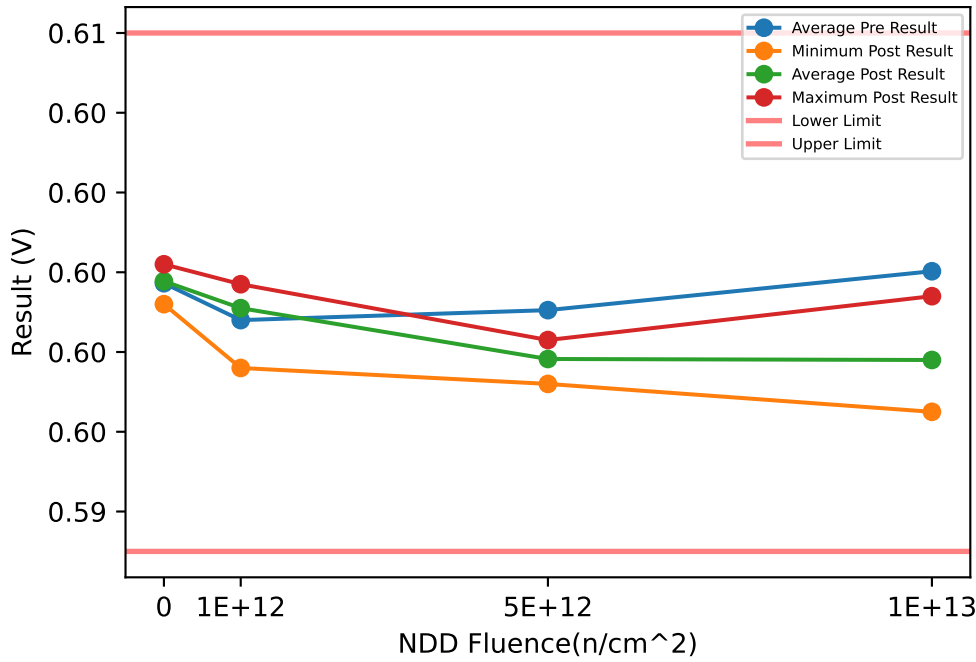
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.0609	0.0679	0.007
171	1e+12	NDD	-0.2928	-0.285	0.0078
269	1e+12	NDD	1.369	1.3899	0.0209
337	1e+12	NDD	0.5995	0.6138	0.0143
357	5e+12	NDD	0.2423	0.2978	0.0555
361	5e+12	NDD	0.4132	0.4565	0.0433
373	5e+12	NDD	1.2038	1.196	-0.0078
412	5e+12	NDD	-0.0976	-0.0771	0.0205
470	1e+13	NDD	0.2628	0.2939	0.0311
498	1e+13	NDD	-0.2938	-0.2594	0.0344
503	1e+13	NDD	-0.0056	0.0002	0.0058
540	1e+13	NDD	-2.0058	-2.0561	-0.0503
553	0	CORRELATION	-0.3746	-0.3596	0.015
586	0	CORRELATION	-0.6458	-0.6607	-0.0149
634	0	CORRELATION	0.0738	0.0817	0.0079
635	0	CORRELATION	-0.0665	-0.0131	0.0534

Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6458	-0.25328	0.0738	0.3218	-0.6607	-0.23792	0.0817	0.33973	-0.0149	0.01535	0.0534	0.028393
1e+12	-0.2928	0.43415	1.369	0.7232	-0.285	0.44665	1.3899	0.72948	0.007	0.0125	0.0209	0.0064843
5e+12	-0.0976	0.44043	1.2038	0.55142	-0.0771	0.4683	1.196	0.53423	-0.0078	0.027875	0.0555	0.027858
1e+13	-2.0058	-0.5106	0.2628	1.0224	-2.0561	-0.50535	0.2939	1.0583	-0.0503	0.00525	0.0344	0.039175

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

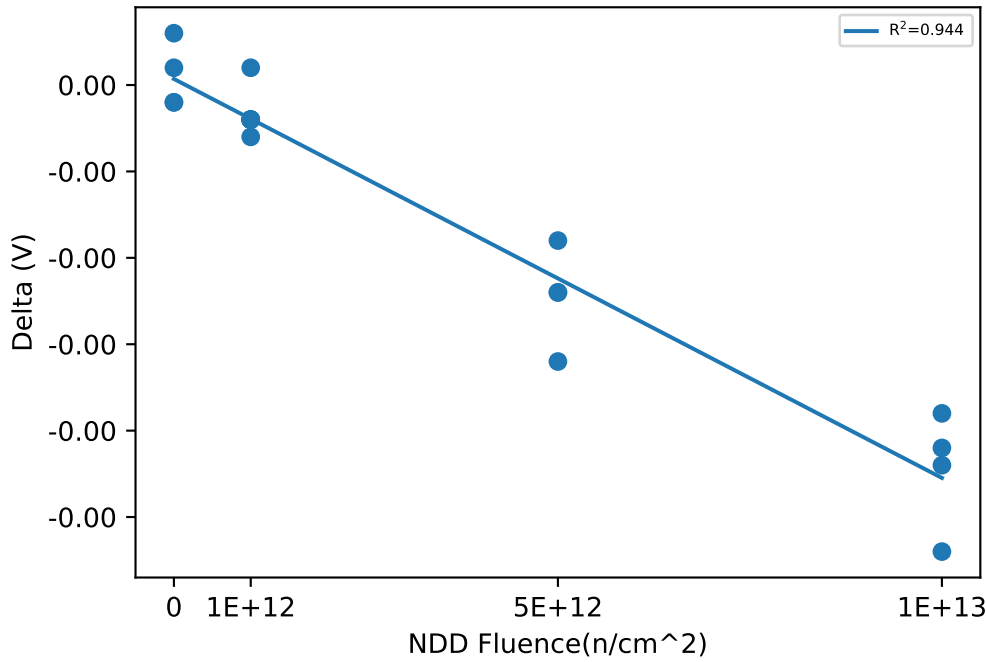
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.5999	0.5997	-0.0002
171	1e+12	NDD	0.5994	0.5992	-0.0002
269	1e+12	NDD	0.5975	0.5976	0.0001
337	1e+12	NDD	0.5984	0.5981	-0.0003
357	5e+12	NDD	0.5997	0.5981	-0.0016
361	5e+12	NDD	0.5986	0.5977	-0.0009
373	5e+12	NDD	0.5984	0.5972	-0.0012
412	5e+12	NDD	0.5995	0.5983	-0.0012
470	1e+13	NDD	0.5992	0.5965	-0.0027
498	1e+13	NDD	0.6002	0.598	-0.0022
503	1e+13	NDD	0.5992	0.5973	-0.0019
540	1e+13	NDD	0.6015	0.5994	-0.0021
553	0	CORRELATION	0.6	0.5999	-0.0001
586	0	CORRELATION	0.6001	0.6002	0.0001
634	0	CORRELATION	0.5995	0.5998	0.0003
635	0	CORRELATION	0.5993	0.5992	-0.0001

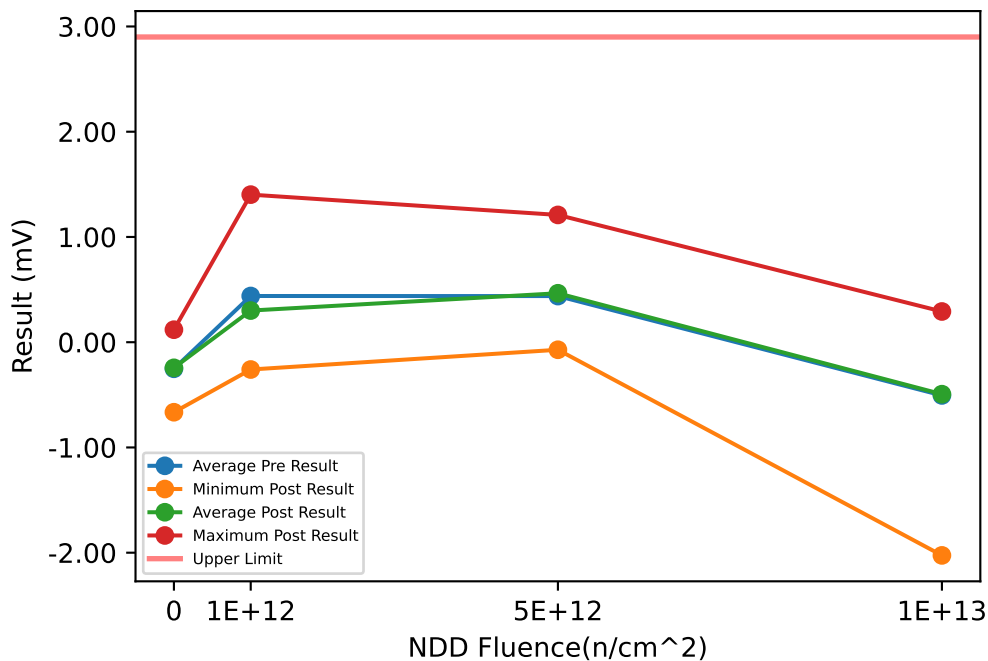
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5993	0.59973	0.6001	0.00038622	0.5992	0.59977	0.6002	0.00041932	-0.0001	5e-05	0.0003	0.00019149
1e+12	0.5975	0.5988	0.5999	0.0010677	0.5976	0.59865	0.5997	0.00096782	-0.0003	-0.00015	0.0001	0.00017321
5e+12	0.5984	0.59905	0.5997	0.0006455	0.5972	0.59783	0.5983	0.00048563	-0.0016	-0.001225	-0.0009	0.00028723
1e+13	0.5992	0.60003	0.6015	0.0010905	0.5965	0.5978	0.5994	0.0012302	-0.0027	-0.002225	-0.0019	0.00034034

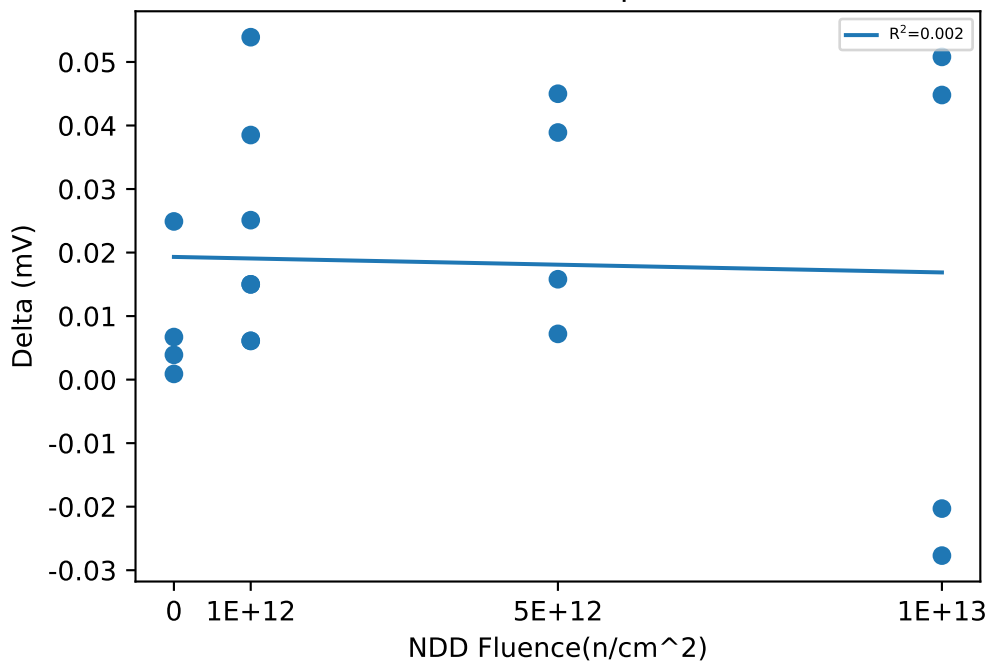
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.0631	0.0781	0.015
171	1e+12	NDD	-0.2979	-0.2594	0.0385
269	1e+12	NDD	1.3772	1.4023	0.0251
337	1e+12	NDD	0.614	0.6679	0.0539
357	5e+12	NDD	0.2328	0.2778	0.045
361	5e+12	NDD	0.4059	0.4448	0.0389
373	5e+12	NDD	1.2022	1.2094	0.0072
412	5e+12	NDD	-0.0876	-0.0718	0.0158
470	1e+13	NDD	0.2411	0.2919	0.0508
498	1e+13	NDD	-0.2534	-0.2811	-0.0277
503	1e+13	NDD	-0.0051	0.0397	0.0448
540	1e+13	NDD	-2.0053	-2.0256	-0.0203
553	0	CORRELATION	-0.3994	-0.3927	0.0067
586	0	CORRELATION	-0.6662	-0.6653	0.0009
634	0	CORRELATION	0.094	0.1189	0.0249
635	0	CORRELATION	-0.0385	-0.0346	0.0039

NDD vs Post - Pre Exposure Delta

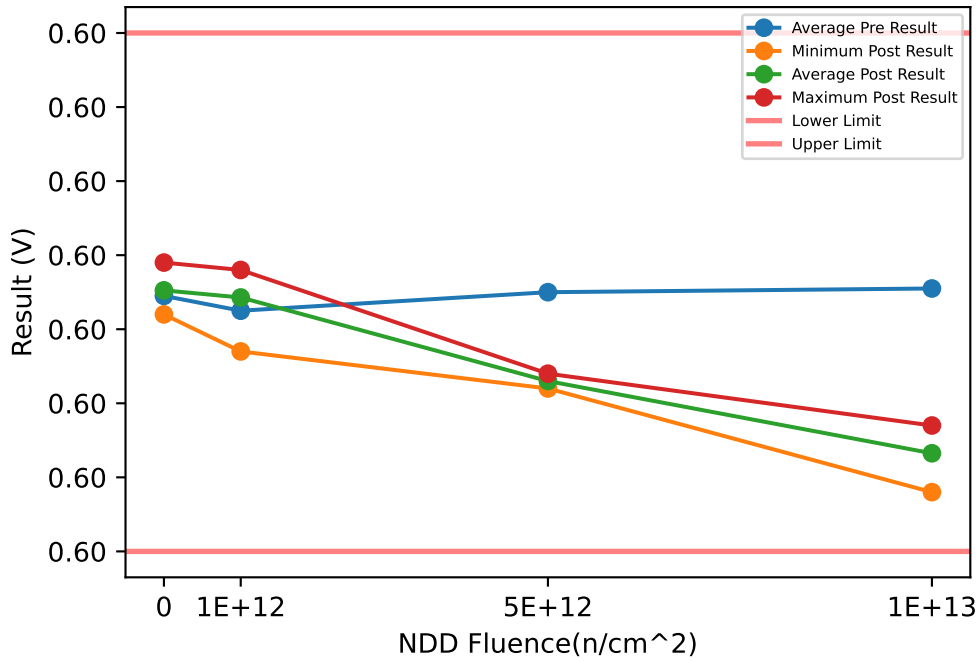


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.6662	-0.25252	0.094	0.34573	-0.6653	-0.24343	0.1189	0.35362	0.0009	0.0091	0.0249	0.010796
1e+12	-0.2979	0.4391	1.3772	0.72919	-0.2594	0.47223	1.4023	0.72891	0.015	0.033125	0.0539	0.016866
5e+12	-0.0876	0.43833	1.2022	0.54875	-0.0718	0.46505	1.2094	0.54091	0.0072	0.026725	0.045	0.0181
1e+13	-2.0053	-0.50567	0.2411	1.0199	-2.0256	-0.49377	0.2919	1.0478	-0.0277	0.0119	0.0508	0.041636

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

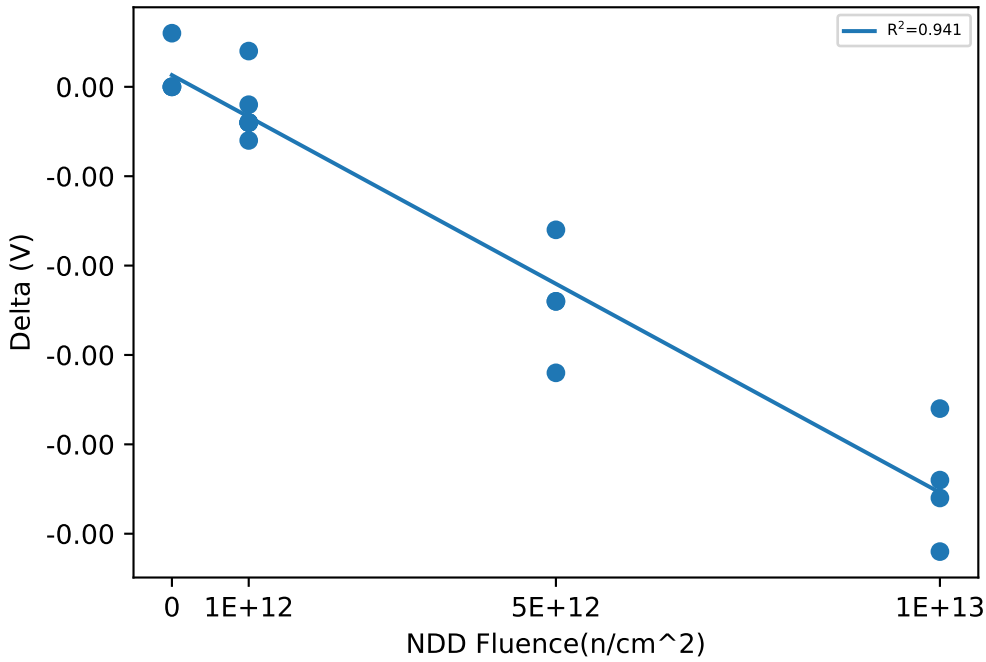
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.5998	-0.0002
171	1e+12	NDD	0.5991	0.599	-0.0001
269	1e+12	NDD	0.5989	0.5991	0.0002
337	1e+12	NDD	0.599	0.5987	-0.0003
357	5e+12	NDD	0.6	0.5984	-0.0016
361	5e+12	NDD	0.599	0.5982	-0.0008
373	5e+12	NDD	0.5996	0.5984	-0.0012
412	5e+12	NDD	0.5994	0.5982	-0.0012
470	1e+13	NDD	0.5994	0.5968	-0.0026
498	1e+13	NDD	0.6	0.5977	-0.0023
503	1e+13	NDD	0.5992	0.5974	-0.0018
540	1e+13	NDD	0.5996	0.5974	-0.0022
553	0	CORRELATION	0.5995	0.5995	0
586	0	CORRELATION	0.5995	0.5995	0
634	0	CORRELATION	0.5996	0.5999	0.0003
635	0	CORRELATION	0.5992	0.5992	0

NDD vs Post - Pre Exposure Delta

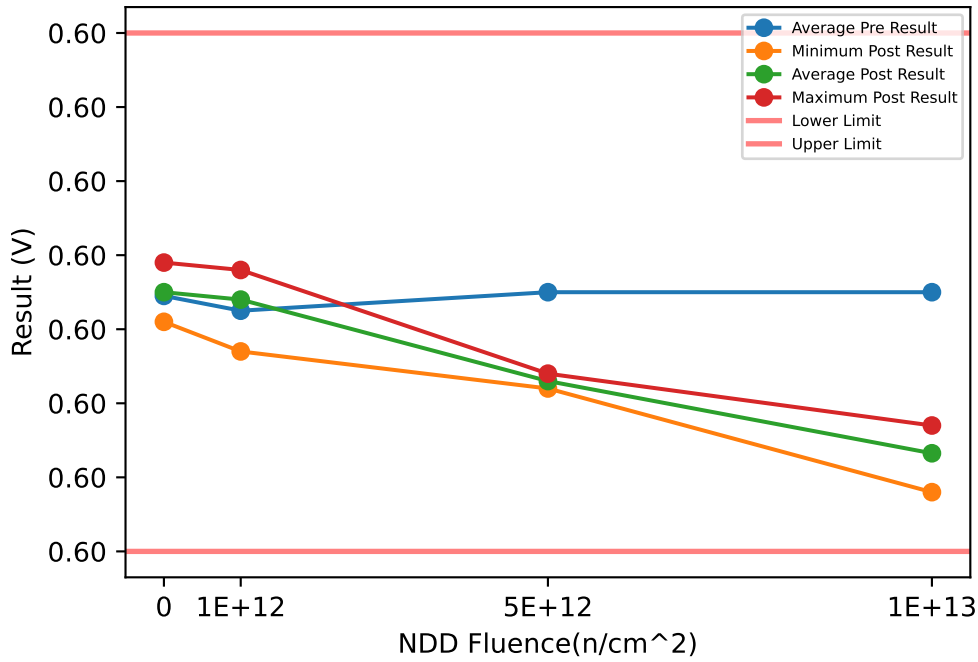


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5992	0.59945	0.5996	0.00017321	0.5992	0.59952	0.5999	0.00028723	0	7.5e-05	0.0003	0.00015
1e+12	0.5989	0.59925	0.6	0.00050662	0.5987	0.59915	0.5998	0.00046547	-0.0003	-0.0001	0.0002	0.00021602
5e+12	0.599	0.5995	0.6	0.00041633	0.5982	0.5983	0.5984	0.00011547	-0.0016	-0.0012	-0.0008	0.0003266
1e+13	0.5992	0.59955	0.6	0.00034157	0.5968	0.59732	0.5977	0.00037749	-0.0026	-0.002225	-0.0018	0.0003304

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

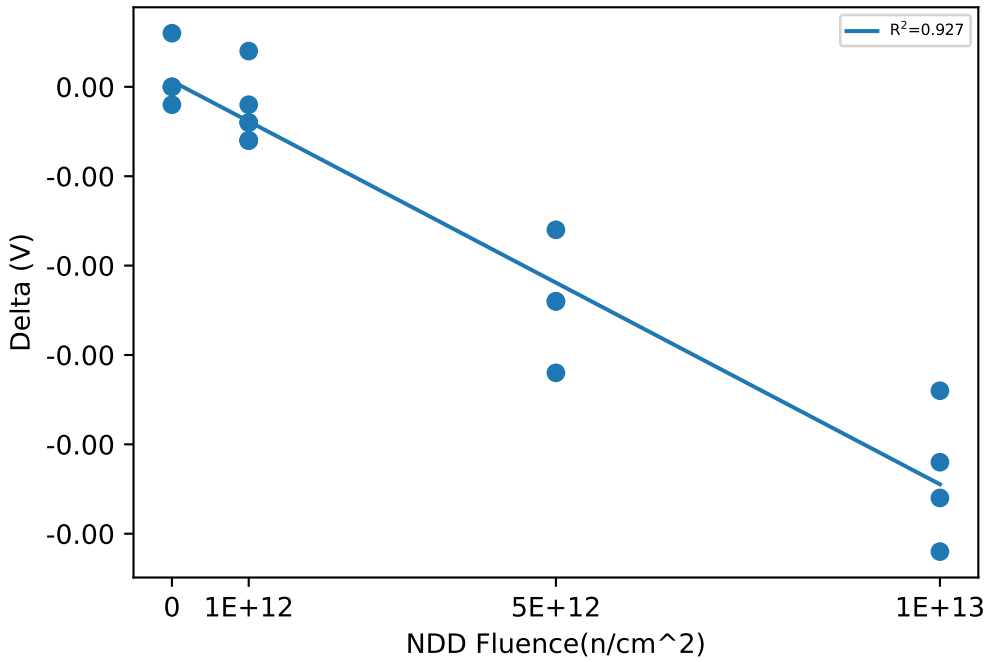
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.5997	-0.0003
171	1e+12	NDD	0.5991	0.599	-0.0001
269	1e+12	NDD	0.5989	0.5991	0.0002
337	1e+12	NDD	0.599	0.5987	-0.0003
357	5e+12	NDD	0.6	0.5984	-0.0016
361	5e+12	NDD	0.599	0.5982	-0.0008
373	5e+12	NDD	0.5996	0.5984	-0.0012
412	5e+12	NDD	0.5994	0.5982	-0.0012
470	1e+13	NDD	0.5994	0.5968	-0.0026
498	1e+13	NDD	0.6	0.5977	-0.0023
503	1e+13	NDD	0.5991	0.5974	-0.0017
540	1e+13	NDD	0.5995	0.5974	-0.0021
553	0	CORRELATION	0.5995	0.5995	0
586	0	CORRELATION	0.5995	0.5995	0
634	0	CORRELATION	0.5996	0.5999	0.0003
635	0	CORRELATION	0.5992	0.5991	-0.0001

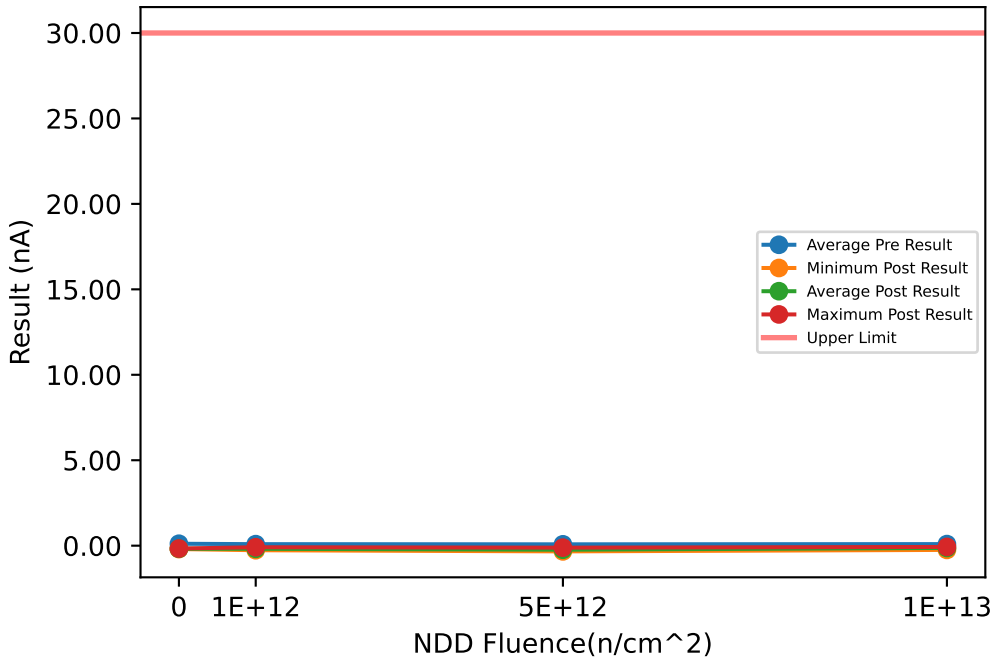
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5992	0.59945	0.5996	0.00017321	0.5991	0.5995	0.5999	0.0003266	-0.0001	5e-05	0.0003	0.00017321
1e+12	0.5989	0.59925	0.6	0.00050662	0.5987	0.59913	0.5997	0.00041932	-0.0003	-0.000125	0.0002	0.00023629
5e+12	0.599	0.5995	0.6	0.00041633	0.5982	0.5983	0.5984	0.00011547	-0.0016	-0.0012	-0.0008	0.0003266
1e+13	0.5991	0.5995	0.6	0.00037417	0.5968	0.59732	0.5977	0.00037749	-0.0026	-0.002175	-0.0017	0.00037749

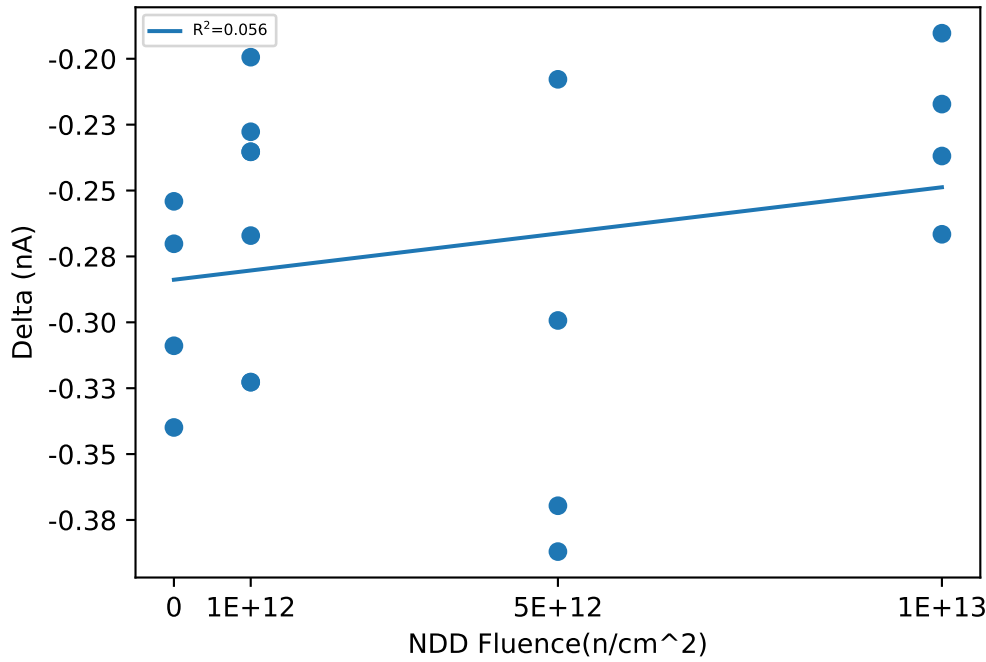
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.056	-0.1793	-0.2353
171	1e+12	NDD	0.1076	-0.0918	-0.1994
269	1e+12	NDD	0.0986	-0.1685	-0.2671
337	1e+12	NDD	0.096	-0.1317	-0.2277
357	5e+12	NDD	0.0529	-0.3167	-0.3696
361	5e+12	NDD	0.1201	-0.1792	-0.2993
373	5e+12	NDD	0.0924	-0.1154	-0.2078
412	5e+12	NDD	0.0524	-0.3346	-0.387
470	1e+13	NDD	0.0186	-0.248	-0.2666
498	1e+13	NDD	0.1638	-0.0731	-0.2369
503	1e+13	NDD	0.1267	-0.0905	-0.2172
540	1e+13	NDD	0.0617	-0.1286	-0.1903
553	0	CORRELATION	0.056	-0.1981	-0.2541
586	0	CORRELATION	0.1607	-0.1792	-0.3399
634	0	CORRELATION	0.0955	-0.1747	-0.2702
635	0	CORRELATION	0.1428	-0.1661	-0.3089

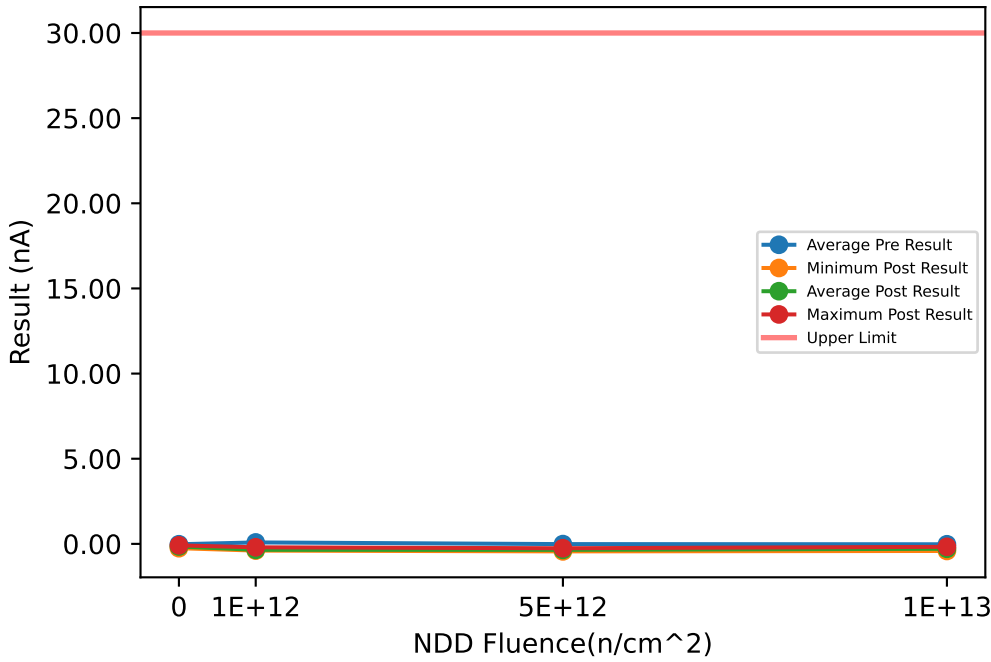
NDD vs Post - Pre Exposure Delta



Test Statistics (nA)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.056	0.11375	0.1607	0.047316	-0.1981	-0.17952	-0.1661	0.013523	-0.3399	-0.29328	-0.2541	0.038666
1e+12	0.056	0.08955	0.1076	0.022912	-0.1793	-0.14283	-0.0918	0.039652	-0.2671	-0.23237	-0.1994	0.02783
5e+12	0.0524	0.07945	0.1201	0.032948	-0.3346	-0.23647	-0.1154	0.10646	-0.387	-0.31593	-0.2078	0.081445
1e+13	0.0186	0.0927	0.1638	0.064969	-0.248	-0.13505	-0.0731	0.078786	-0.2666	-0.22775	-0.1903	0.032181

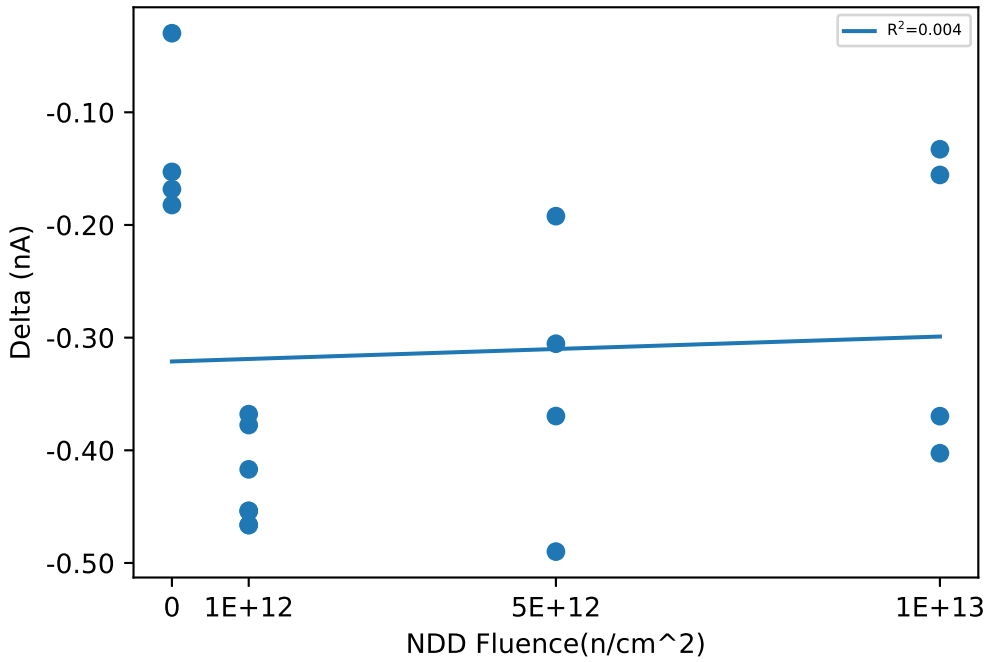
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.0716	-0.3947	-0.4663
171	1e+12	NDD	0.1669	-0.201	-0.3679
269	1e+12	NDD	0.0955	-0.3214	-0.4169
337	1e+12	NDD	0.0087	-0.3689	-0.3776
357	5e+12	NDD	-0.0719	-0.4415	-0.3696
361	5e+12	NDD	0.017	-0.2884	-0.3054
373	5e+12	NDD	-0.0637	-0.2559	-0.1922
412	5e+12	NDD	0.0679	-0.422	-0.4899
470	1e+13	NDD	-0.0469	-0.4166	-0.3697
498	1e+13	NDD	-0.0173	-0.1729	-0.1556
503	1e+13	NDD	-0.0856	-0.2184	-0.1328
540	1e+13	NDD	0.0586	-0.344	-0.4026
553	0	CORRELATION	-0.0719	-0.2542	-0.1823
586	0	CORRELATION	0.0202	-0.148	-0.1682
634	0	CORRELATION	-0.0575	-0.0873	-0.0298
635	0	CORRELATION	0.0243	-0.1286	-0.1529

NDD vs Post - Pre Exposure Delta

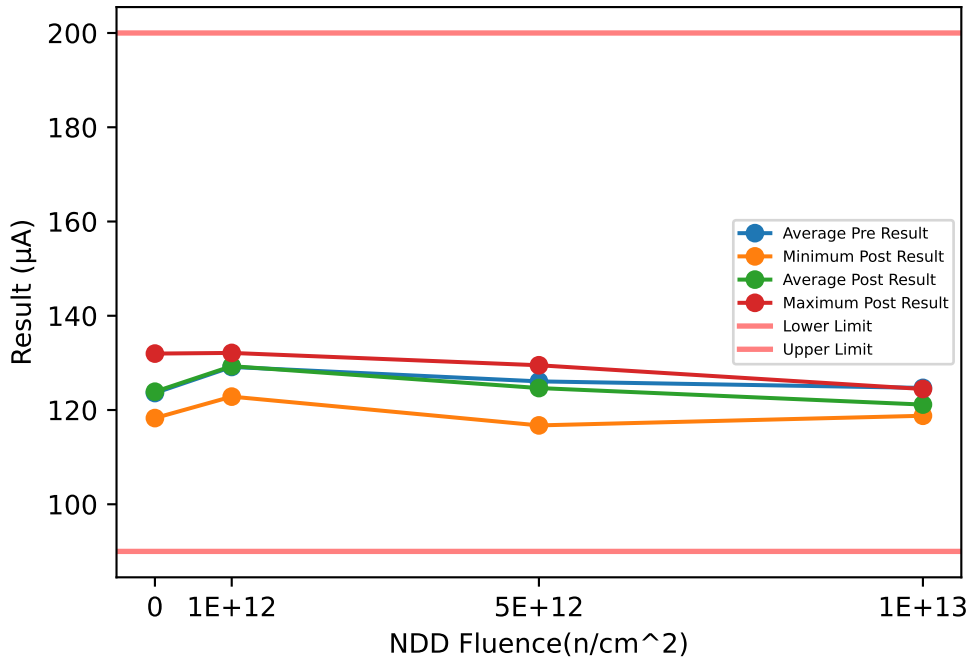


Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	-0.0719	-0.021225	0.0243	0.050571	-0.2542	-0.15452	-0.0873	0.071108	-0.1823	-0.1333	-0.0298	0.070037
1e+12	0.0087	0.085675	0.1669	0.065364	-0.3947	-0.3215	-0.201	0.085878	-0.4663	-0.40718	-0.3679	0.044749
5e+12	-0.0719	-0.012675	0.0679	0.067042	-0.4415	-0.35195	-0.2559	0.093435	-0.4899	-0.33927	-0.1922	0.12435
1e+13	-0.0856	-0.0228	0.0586	0.061049	-0.4166	-0.28797	-0.1729	0.1122	-0.4026	-0.26517	-0.1328	0.14064

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

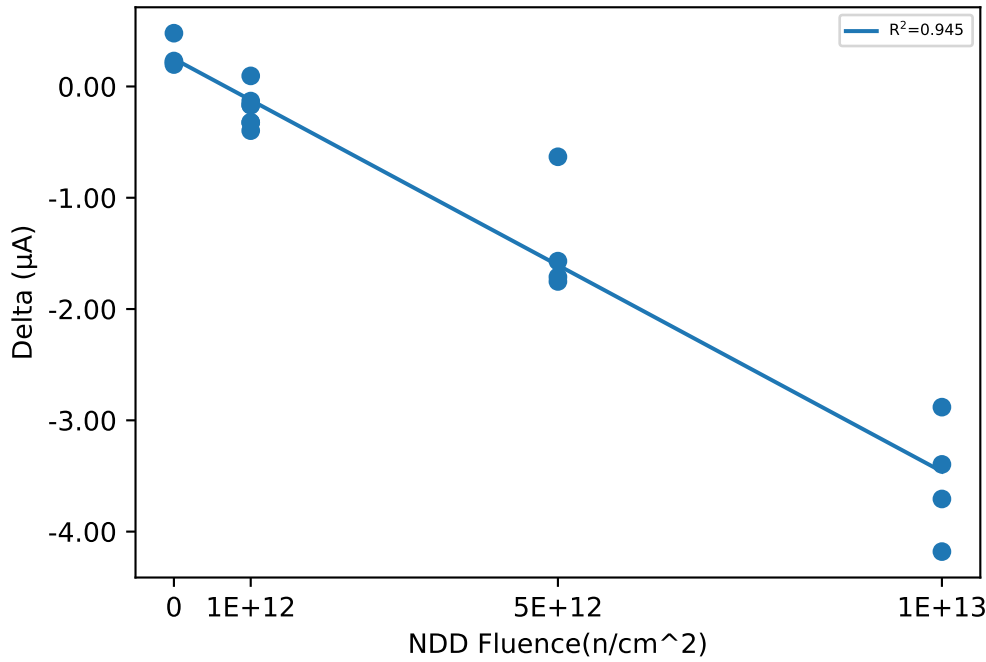
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	130	129.84	-0.1674
171	1e+12	NDD	122.97	122.84	-0.1312
269	1e+12	NDD	131.06	131.16	0.095
337	1e+12	NDD	132.51	132.12	-0.397
357	5e+12	NDD	128.47	127.84	-0.6318
361	5e+12	NDD	131.25	129.5	-1.7521
373	5e+12	NDD	118.31	116.74	-1.5696
412	5e+12	NDD	126.28	124.57	-1.7115
470	1e+13	NDD	123.74	120.86	-2.8816
498	1e+13	NDD	122.18	118.78	-3.396
503	1e+13	NDD	124.22	120.52	-3.7067
540	1e+13	NDD	128.64	124.46	-4.1796
553	0	CORRELATION	118.07	118.29	0.2159
586	0	CORRELATION	124.35	124.83	0.4787
634	0	CORRELATION	120.23	120.45	0.2286
635	0	CORRELATION	131.78	131.97	0.1969

NDD vs Post - Pre Exposure Delta

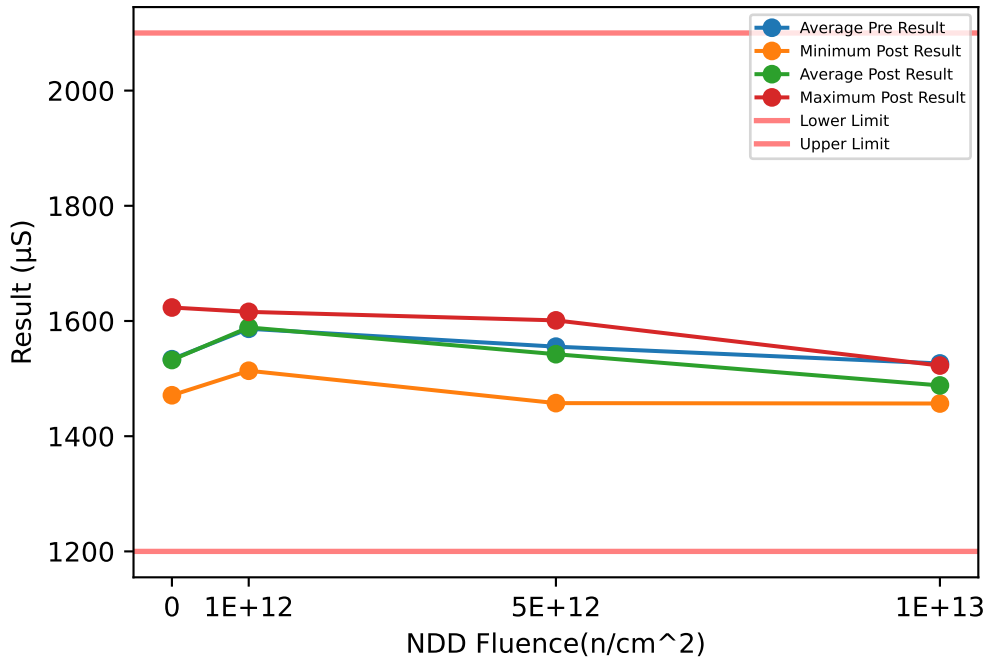


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	118.07	123.61	131.78	6.0379	118.29	123.89	131.97	6.0392	0.1969	0.28003	0.4787	0.13309
1e+12	122.97	129.14	132.51	4.2368	122.84	128.99	132.12	4.2027	-0.397	-0.15015	0.095	0.2014
5e+12	118.31	126.08	131.25	5.5655	116.74	124.66	129.5	5.6661	-1.7521	-1.4162	-0.6318	0.52879
1e+13	122.18	124.69	128.64	2.77	118.78	121.15	124.46	2.3835	-4.1796	-3.541	-2.8816	0.54501

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

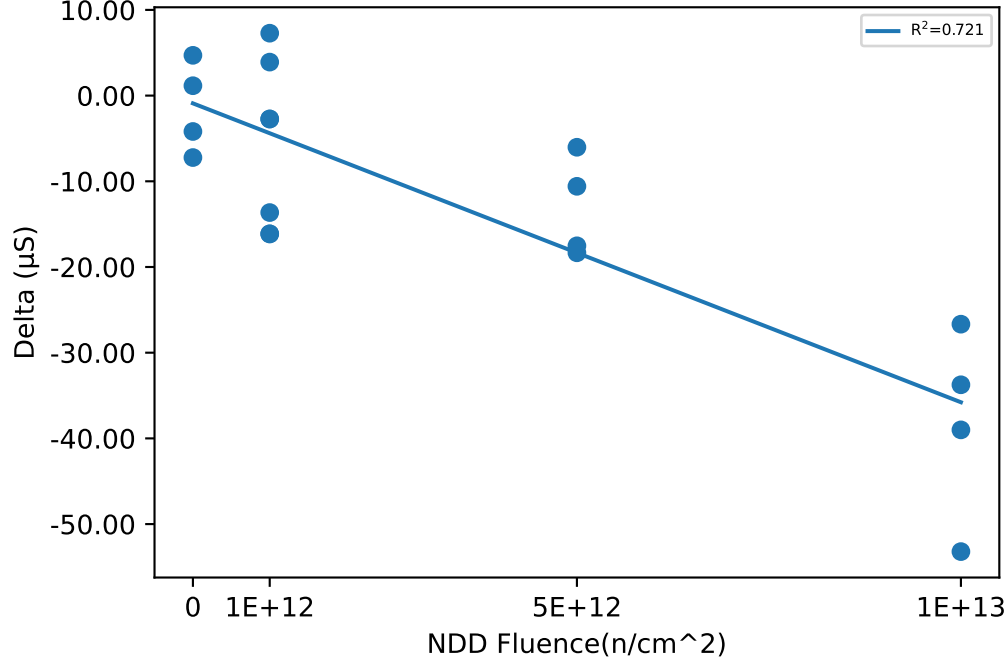
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1605.5	1589.3	-16.137
171	1e+12	NDD	1509.7	1513.6	3.9093
269	1e+12	NDD	1622.1	1608.5	-13.647
337	1e+12	NDD	1608.6	1615.9	7.2816
357	5e+12	NDD	1589	1570.7	-18.343
361	5e+12	NDD	1607.1	1601.1	-6.0274
373	5e+12	NDD	1475	1457.4	-17.528
412	5e+12	NDD	1550.8	1540.2	-10.585
470	1e+13	NDD	1513.7	1487	-26.672
498	1e+13	NDD	1510	1456.7	-53.21
503	1e+13	NDD	1519.8	1486.1	-33.744
540	1e+13	NDD	1561.7	1522.7	-39.005
553	0	CORRELATION	1469.9	1471.1	1.1536
586	0	CORRELATION	1545.2	1541	-4.1867
634	0	CORRELATION	1500.9	1493.6	-7.2287
635	0	CORRELATION	1618.7	1623.4	4.6991

NDD vs Post - Pre Exposure Delta

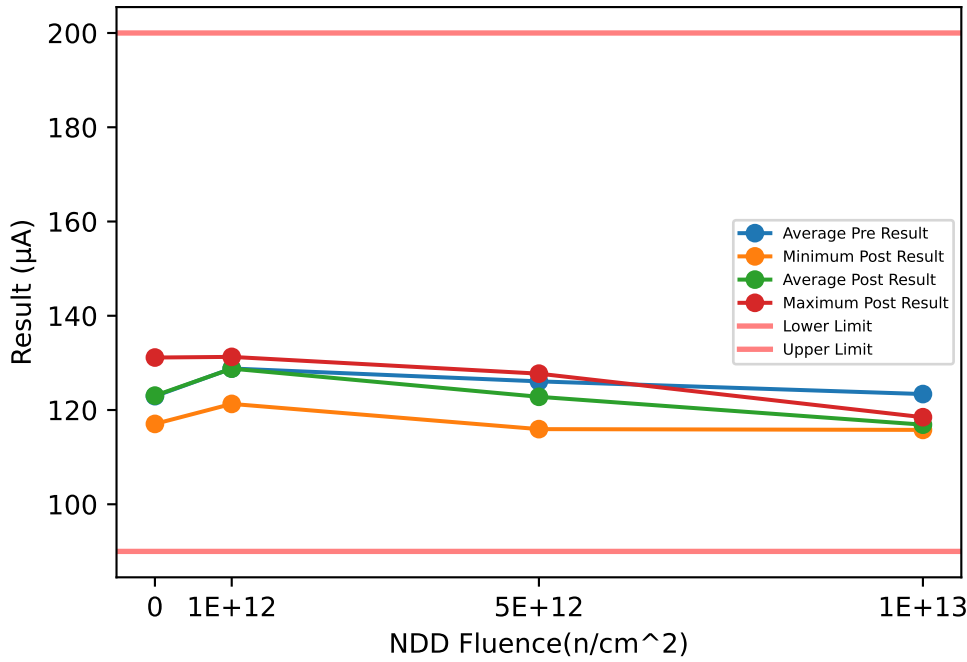


Test Statistics (µS)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1469.9	1533.7	1618.7	64.571	1471.1	1532.3	1623.4	67.39	-7.2287	-1.3907	4.6991	5.3373
1e+12	1509.7	1586.5	1622.1	51.673	1513.6	1581.8	1615.9	46.814	-16.137	-4.6481	7.2816	11.951
5e+12	1475	1555.5	1607.1	58.586	1457.4	1542.3	1601.1	61.829	-18.343	-13.121	-6.0274	5.8718
1e+13	1510	1526.3	1561.7	23.935	1456.7	1488.1	1522.7	26.978	-53.21	-38.158	-26.672	11.235

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

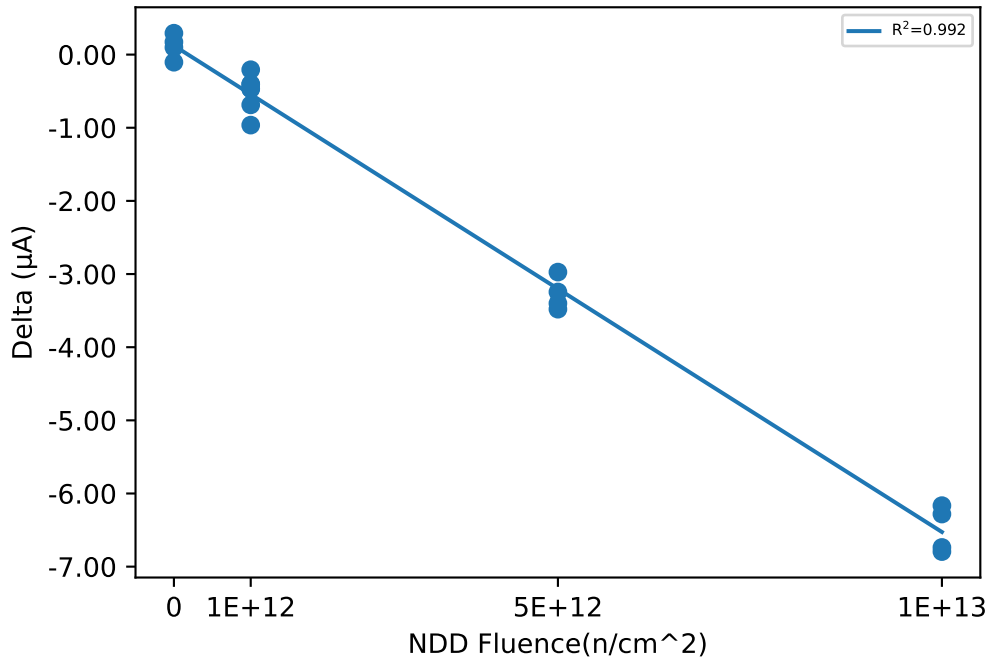
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	129.94	129.53	-0.405
171	1e+12	NDD	121.98	121.3	-0.6872
269	1e+12	NDD	131.48	131.27	-0.2067
337	1e+12	NDD	131.85	130.89	-0.9639
357	5e+12	NDD	128.44	125.46	-2.9733
361	5e+12	NDD	130.96	127.72	-3.2451
373	5e+12	NDD	119.42	115.94	-3.4804
412	5e+12	NDD	125.49	122.09	-3.4008
470	1e+13	NDD	122.78	116.5	-6.2809
498	1e+13	NDD	122.58	115.78	-6.7943
503	1e+13	NDD	122.97	116.8	-6.1659
540	1e+13	NDD	125.21	118.47	-6.7376
553	0	CORRELATION	116.76	117.05	0.2926
586	0	CORRELATION	123.37	123.54	0.1724
634	0	CORRELATION	120.58	120.48	-0.1043
635	0	CORRELATION	131.04	131.14	0.098

NDD vs Post - Pre Exposure Delta

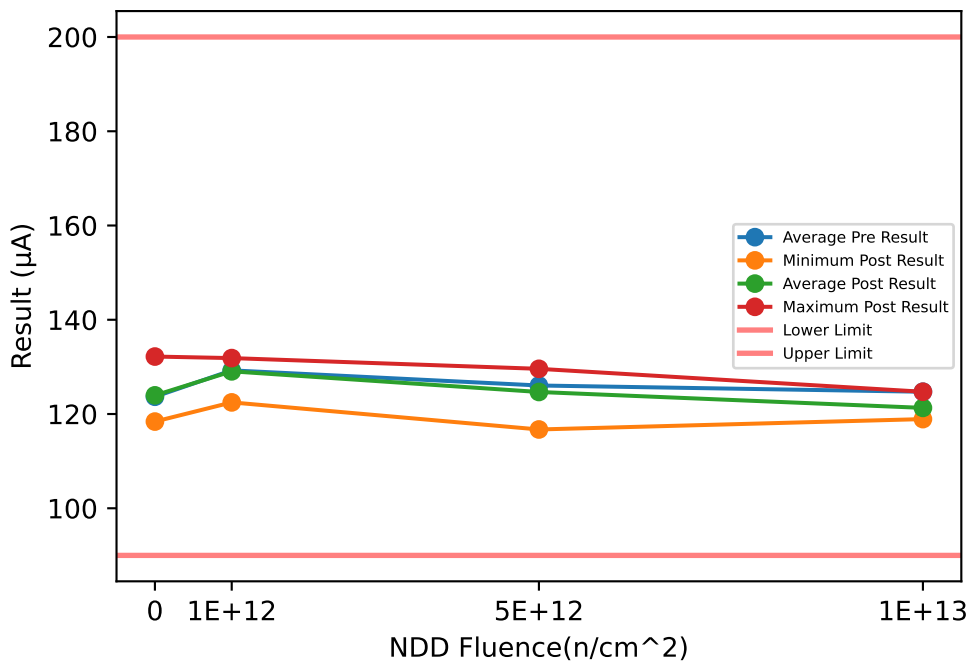


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	116.76	122.94	131.04	6.0437	117.05	123.05	131.14	6.0077	-0.1043	0.11467	0.2926	0.16655
1e+12	121.98	128.81	131.85	4.6281	121.3	128.25	131.27	4.6941	-0.9639	-0.5657	-0.2067	0.33067
5e+12	119.42	126.08	130.96	4.9672	115.94	122.8	127.72	5.124	-3.4804	-3.2749	-2.9733	0.22356
1e+13	122.58	123.39	125.21	1.2279	115.78	116.89	118.47	1.1392	-6.7943	-6.4947	-6.1659	0.31758

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

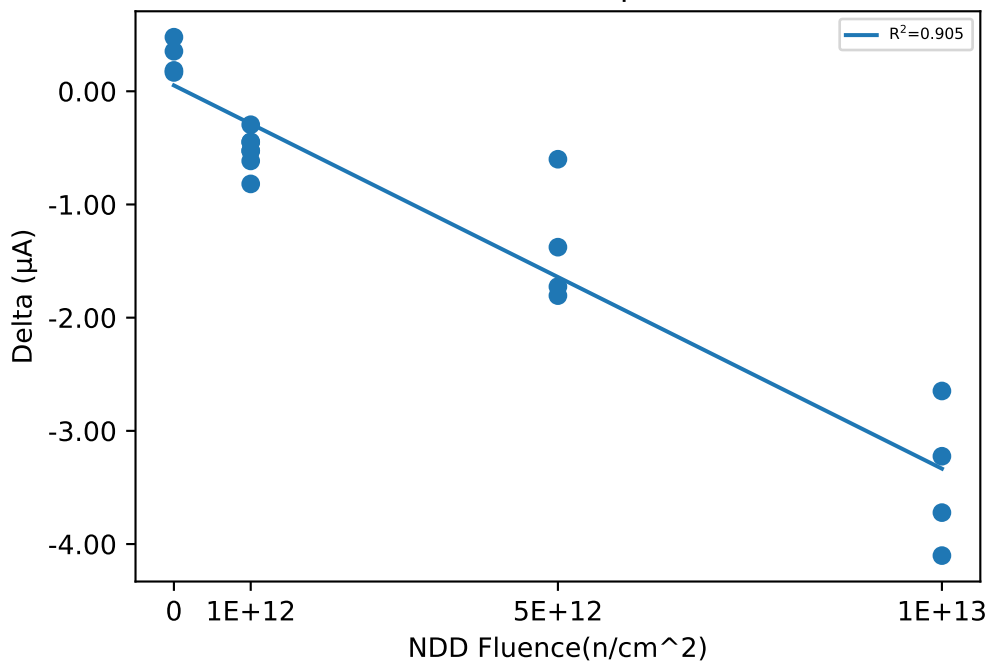
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	130	129.48	-0.5258
171	1e+12	NDD	123.08	122.47	-0.6152
269	1e+12	NDD	131.28	130.99	-0.2955
337	1e+12	NDD	132.68	131.87	-0.8184
357	5e+12	NDD	128.36	127.76	-0.6003
361	5e+12	NDD	130.97	129.59	-1.3773
373	5e+12	NDD	118.45	116.72	-1.7258
412	5e+12	NDD	126.44	124.63	-1.8053
470	1e+13	NDD	123.65	121	-2.6477
498	1e+13	NDD	122.15	118.92	-3.2242
503	1e+13	NDD	124.29	120.56	-3.7222
540	1e+13	NDD	128.83	124.72	-4.1019
553	0	CORRELATION	118.21	118.4	0.1844
586	0	CORRELATION	124.33	124.68	0.3537
634	0	CORRELATION	120.4	120.56	0.1663
635	0	CORRELATION	131.72	132.19	0.4777

NDD vs Post - Pre Exposure Delta

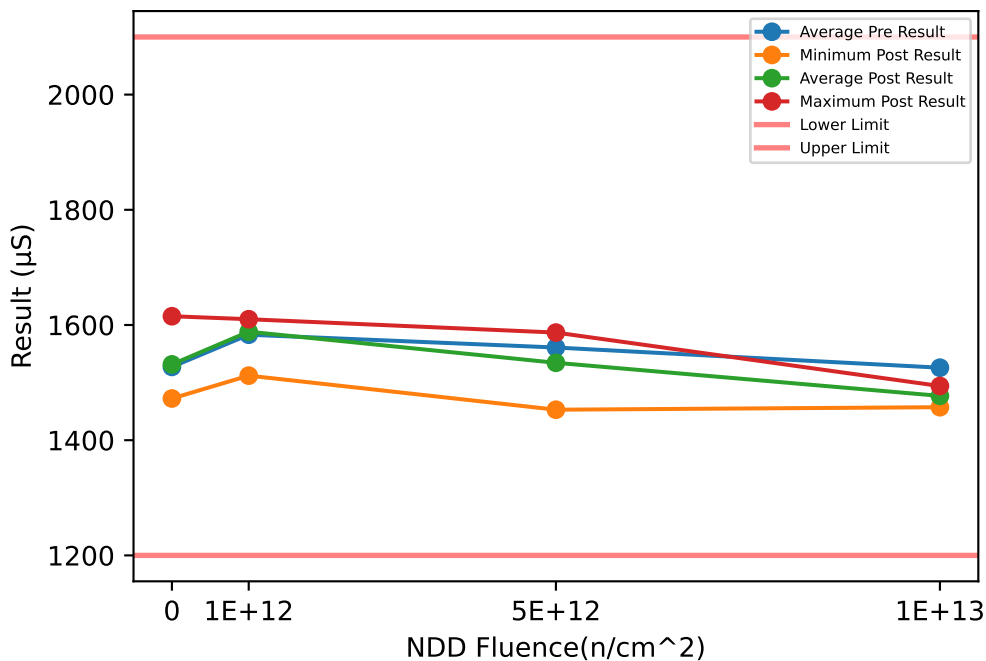


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	118.21	123.66	131.72	5.9343	118.4	123.96	132.19	6.0767	0.1663	0.29553	0.4777	0.1479
1e+12	123.08	129.26	132.68	4.2636	122.47	128.7	131.87	4.2704	-0.8184	-0.56373	-0.2955	0.21671
5e+12	118.45	126.05	130.97	5.4007	116.72	124.68	129.59	5.6856	-1.8053	-1.3772	-0.6003	0.55026
1e+13	122.15	124.73	128.83	2.8762	118.92	121.3	124.72	2.4501	-4.1019	-3.424	-2.6477	0.63009

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

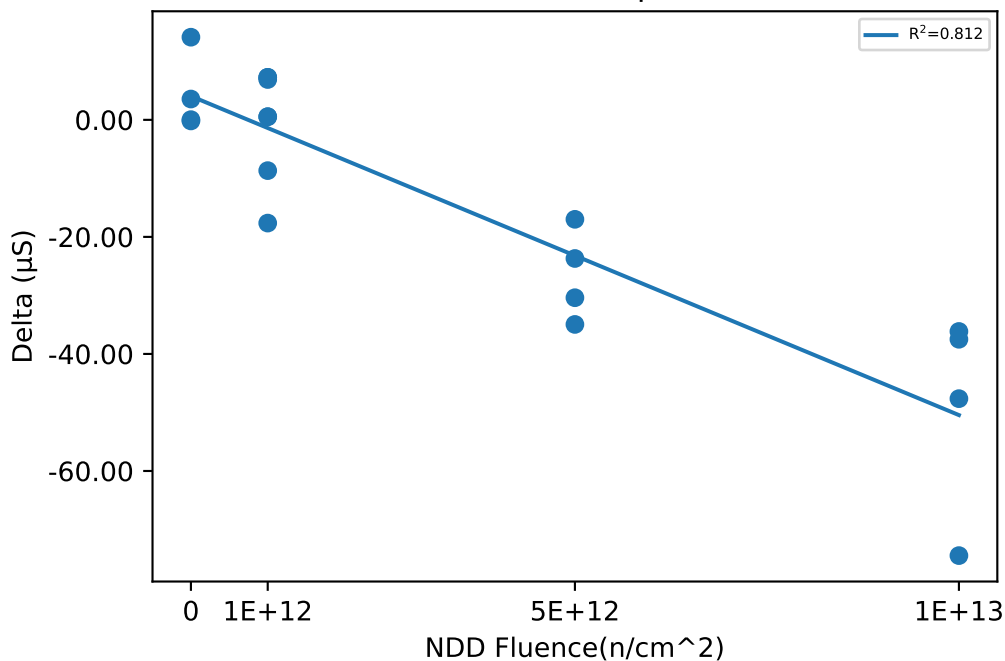
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1596.6	1603.8	7.2648
171	1e+12	NDD	1529.7	1512.1	-17.641
269	1e+12	NDD	1603.2	1610	6.8924
337	1e+12	NDD	1603.1	1594.4	-8.6765
357	5e+12	NDD	1594.6	1577.6	-16.997
361	5e+12	NDD	1617.2	1586.9	-30.394
373	5e+12	NDD	1476.6	1452.9	-23.689
412	5e+12	NDD	1555.1	1520.1	-34.957
470	1e+13	NDD	1514.3	1476.8	-37.496
498	1e+13	NDD	1504.9	1457.3	-47.641
503	1e+13	NDD	1515.7	1479.6	-36.158
540	1e+13	NDD	1568.5	1494.1	-74.459
553	0	CORRELATION	1468.8	1472.4	3.5578
586	0	CORRELATION	1533.1	1533.1	0.035
634	0	CORRELATION	1491.6	1505.7	14.122
635	0	CORRELATION	1615.4	1615.2	-0.1866

NDD vs Post - Pre Exposure Delta

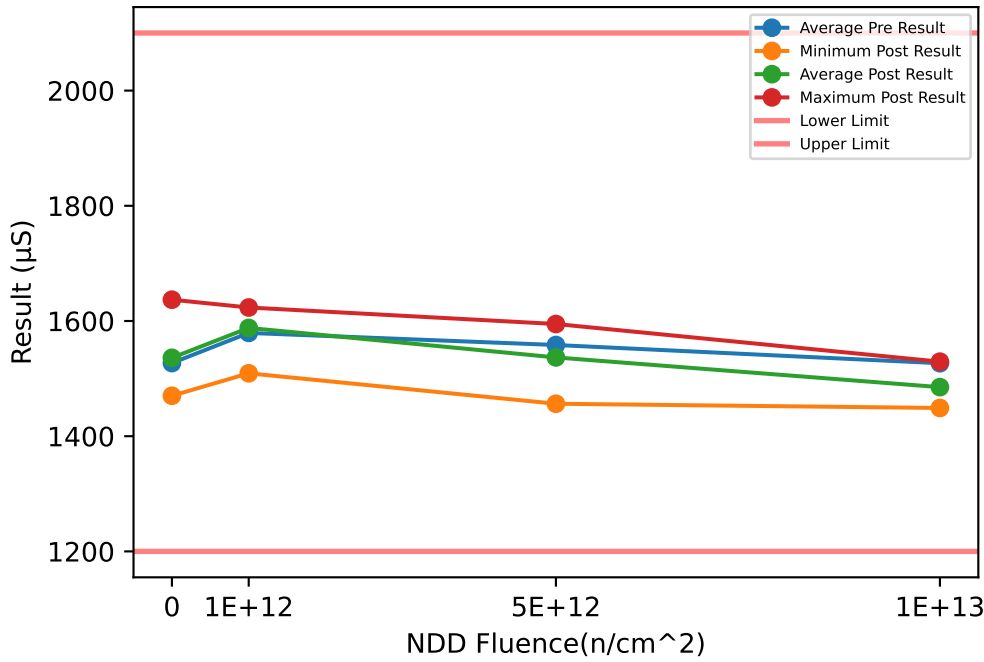


Test Statistics (µS)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1468.8	1527.2	1615.4	64.522	1472.4	1531.6	1615.2	61.018	-0.1866	4.3822	14.122	6.7163
1e+12	1529.7	1583.1	1603.2	35.739	1512.1	1580.1	1610	45.79	-17.641	-3.04	7.2648	12.245
5e+12	1476.6	1560.9	1617.2	61.775	1452.9	1534.4	1586.9	61.807	-34.957	-26.509	-16.997	7.8508
1e+13	1504.9	1525.9	1568.5	28.843	1457.3	1476.9	1494.1	15.132	-74.459	-48.938	-36.158	17.769

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

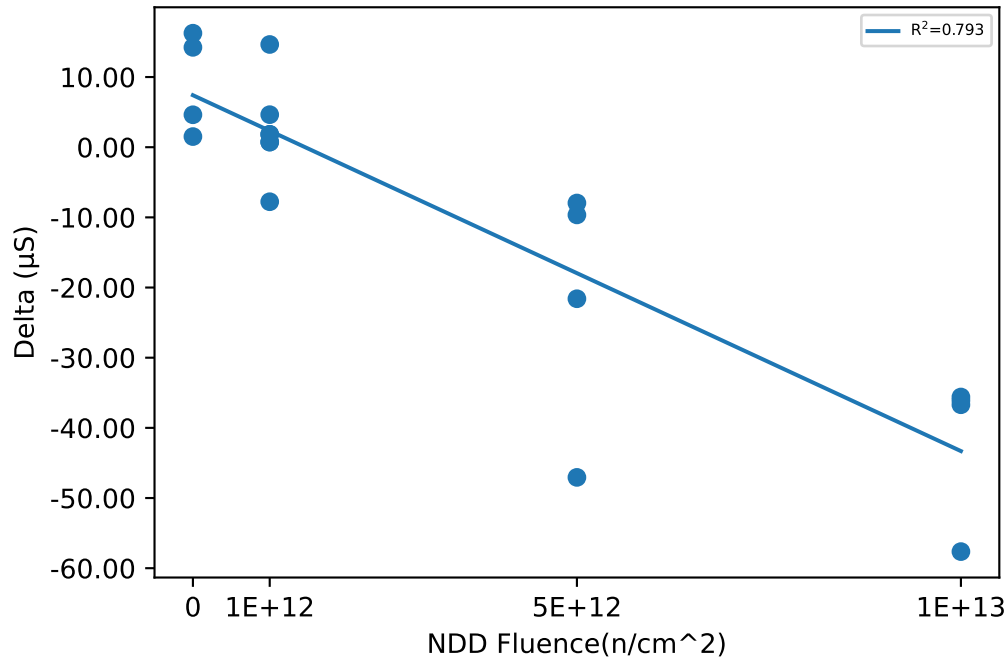
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1594	1595.8	1.8345
171	1e+12	NDD	1517	1509.2	-7.7712
269	1e+12	NDD	1597.5	1602.1	4.6377
337	1e+12	NDD	1608.8	1623.4	14.641
357	5e+12	NDD	1583.5	1573.8	-9.6479
361	5e+12	NDD	1602.7	1594.8	-7.9527
373	5e+12	NDD	1477.9	1456.3	-21.598
412	5e+12	NDD	1569.2	1522.1	-47.057
470	1e+13	NDD	1515.9	1479.8	-36.099
498	1e+13	NDD	1506.7	1449	-57.634
503	1e+13	NDD	1519.3	1482.6	-36.705
540	1e+13	NDD	1565	1529.4	-35.602
553	0	CORRELATION	1465.5	1470.2	4.6233
586	0	CORRELATION	1528.6	1542.8	14.232
634	0	CORRELATION	1492.9	1494.4	1.516
635	0	CORRELATION	1620.7	1637	16.249

NDD vs Post - Pre Exposure Delta

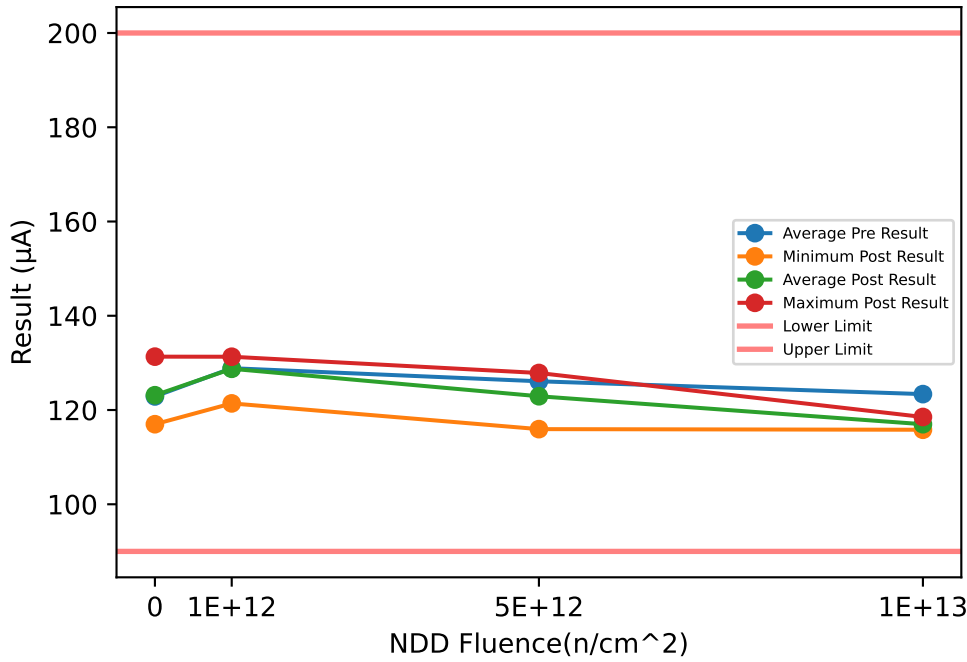


Test Statistics (µS)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1465.5	1526.9	1620.7	67.645	1470.2	1536.1	1637	73.725	1.516	9.1549	16.249	7.1875
1e+12	1517	1579.3	1608.8	42.046	1509.2	1582.6	1623.4	50.378	-7.7712	3.3355	14.641	9.2218
5e+12	1477.9	1558.3	1602.7	55.332	1456.3	1536.8	1594.8	61.708	-47.057	-21.564	-7.9527	18.048
1e+13	1506.7	1526.7	1565	26.085	1449	1485.2	1529.4	33.157	-57.634	-41.51	-35.602	10.759

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

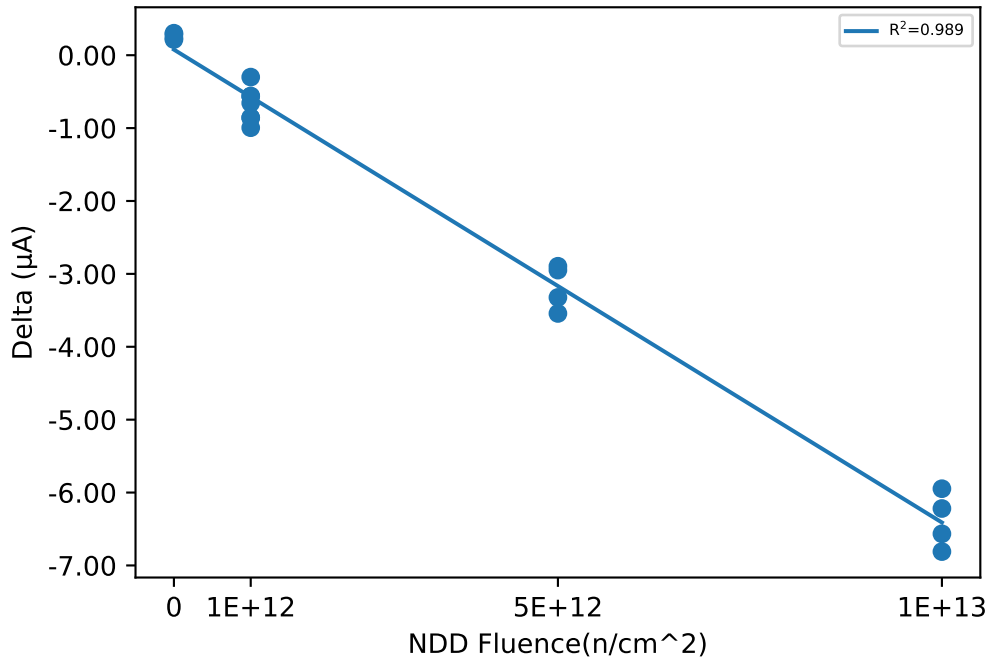
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	130.17	129.31	-0.8574
171	1e+12	NDD	122.06	121.41	-0.656
269	1e+12	NDD	131.61	131.31	-0.3004
337	1e+12	NDD	131.66	130.67	-0.9947
357	5e+12	NDD	128.42	125.53	-2.8952
361	5e+12	NDD	130.8	127.86	-2.9484
373	5e+12	NDD	119.49	115.94	-3.5429
412	5e+12	NDD	125.68	122.36	-3.3232
470	1e+13	NDD	122.89	116.67	-6.2188
498	1e+13	NDD	122.62	115.81	-6.81
503	1e+13	NDD	122.89	116.94	-5.9472
540	1e+13	NDD	125.09	118.52	-6.5658
553	0	CORRELATION	116.77	116.99	0.2147
586	0	CORRELATION	123.23	123.47	0.2348
634	0	CORRELATION	120.47	120.77	0.3019
635	0	CORRELATION	131.04	131.32	0.2852

NDD vs Post - Pre Exposure Delta

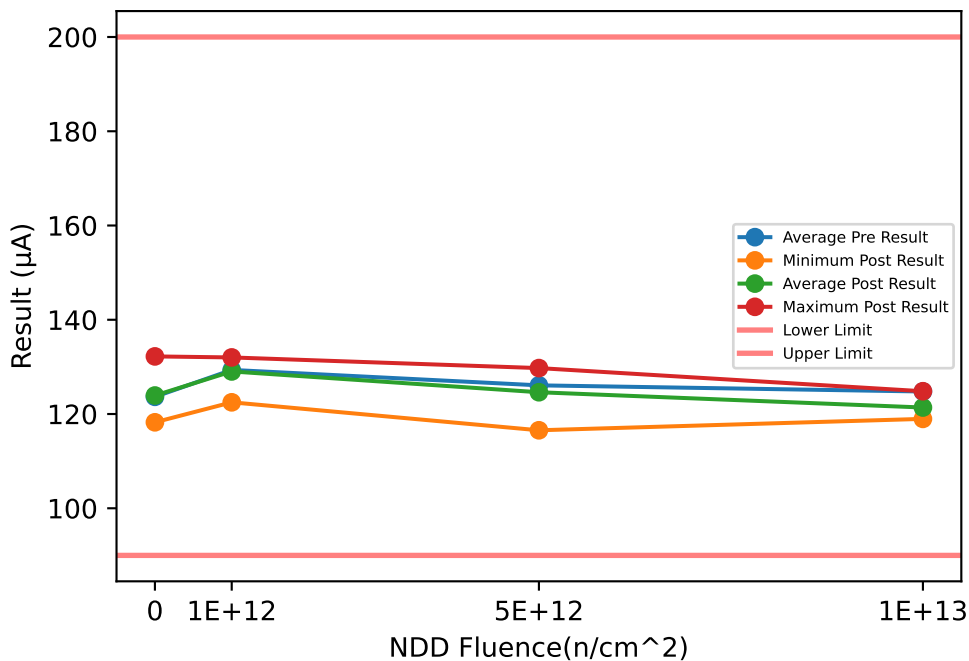


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	116.77	122.88	131.04	6.0498	116.99	123.14	131.32	6.0704	0.2147	0.25915	0.3019	0.041129
1e+12	122.06	128.88	131.66	4.595	121.41	128.17	131.31	4.5879	-0.9947	-0.70213	-0.3004	0.30178
5e+12	119.49	126.1	130.8	4.8796	115.94	122.92	127.86	5.1685	-3.5429	-3.1774	-2.8952	0.30926
1e+13	122.62	123.37	125.09	1.1489	115.81	116.99	118.52	1.1298	-6.81	-6.3854	-5.9472	0.37974

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

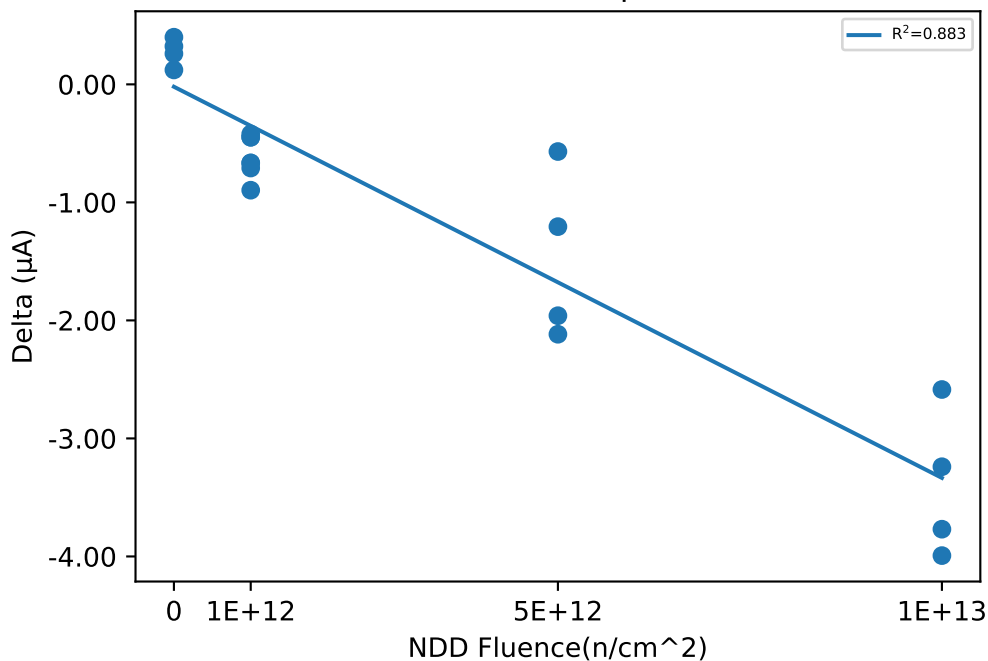
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	130.02	129.35	-0.6661
171	1e+12	NDD	123.19	122.48	-0.7089
269	1e+12	NDD	131.31	130.89	-0.4205
337	1e+12	NDD	132.9	132.01	-0.8968
357	5e+12	NDD	128.35	127.78	-0.5691
361	5e+12	NDD	130.95	129.75	-1.2055
373	5e+12	NDD	118.51	116.55	-1.9602
412	5e+12	NDD	126.53	124.41	-2.1173
470	1e+13	NDD	123.76	121.17	-2.5855
498	1e+13	NDD	122.21	118.97	-3.2398
503	1e+13	NDD	124.32	120.55	-3.7691
540	1e+13	NDD	128.83	124.83	-3.9928
553	0	CORRELATION	118.12	118.24	0.1222
586	0	CORRELATION	124.28	124.54	0.2599
634	0	CORRELATION	120.37	120.69	0.3225
635	0	CORRELATION	131.82	132.22	0.3996

NDD vs Post - Pre Exposure Delta

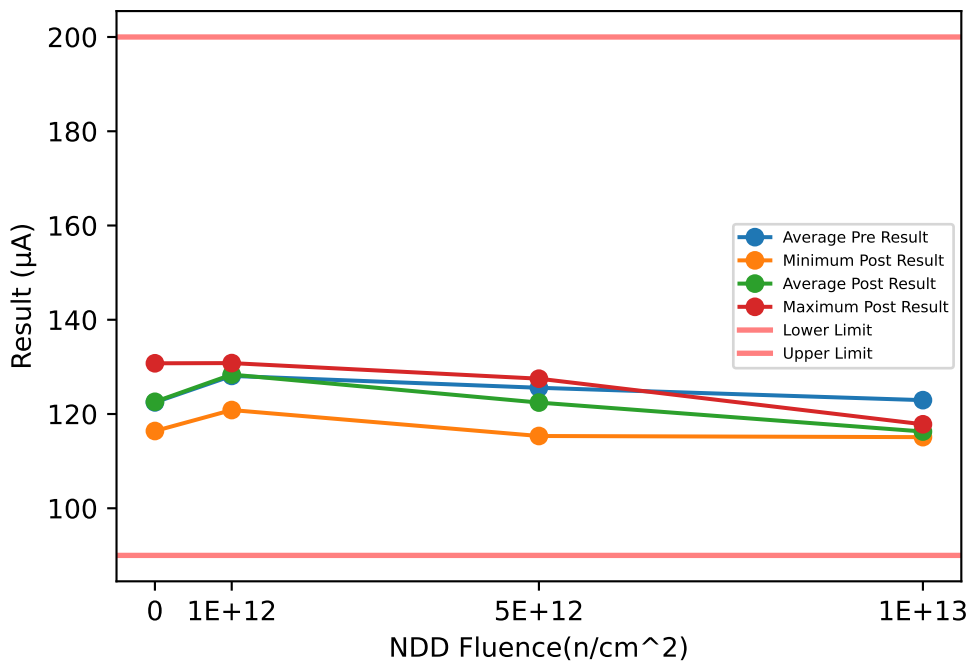


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	118.12	123.65	131.82	6.0165	118.24	123.92	132.22	6.1109	0.1222	0.27605	0.3996	0.11741
1e+12	123.19	129.36	132.9	4.2761	122.48	128.68	132.01	4.2748	-0.8968	-0.67307	-0.4205	0.19594
5e+12	118.51	126.08	130.95	5.3668	116.55	124.62	129.75	5.8153	-2.1173	-1.463	-0.5691	0.71663
1e+13	122.21	124.78	128.83	2.8425	118.97	121.38	124.83	2.4814	-3.9928	-3.3968	-2.5855	0.62628

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

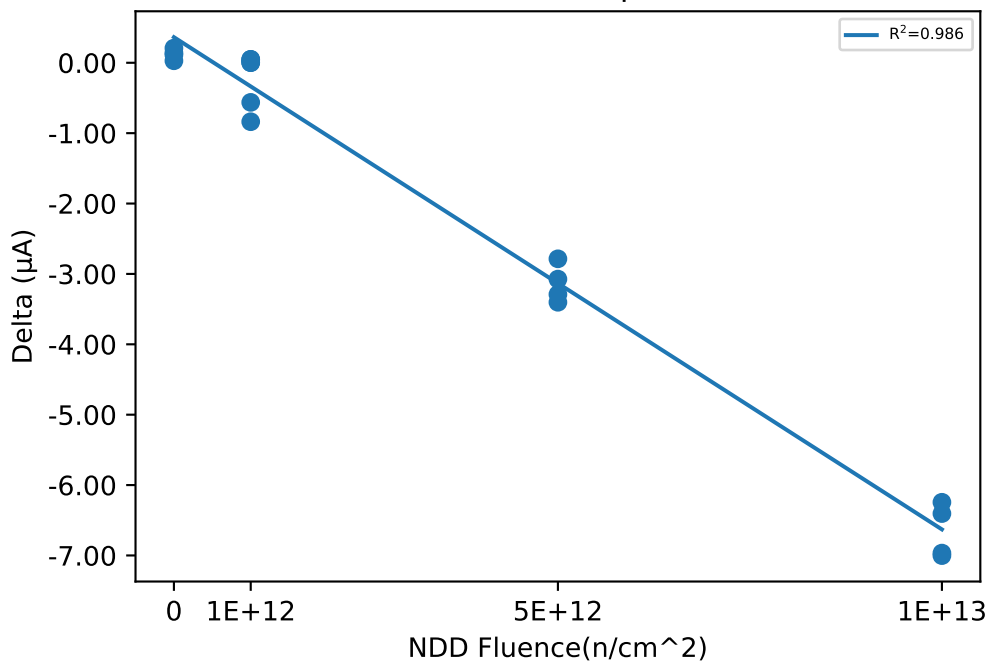
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	129.17	129.22	0.0486
171	1e+12	NDD	121.41	120.84	-0.5625
269	1e+12	NDD	130.78	130.81	0.0273
337	1e+12	NDD	130.99	130.15	-0.8375
357	5e+12	NDD	128.03	125.25	-2.7854
361	5e+12	NDD	130.57	127.5	-3.0735
373	5e+12	NDD	118.74	115.33	-3.4027
412	5e+12	NDD	124.93	121.64	-3.2907
470	1e+13	NDD	122.36	115.96	-6.4047
498	1e+13	NDD	122.06	115.09	-6.9664
503	1e+13	NDD	122.52	116.27	-6.2443
540	1e+13	NDD	124.82	117.82	-7.002
553	0	CORRELATION	116.37	116.39	0.0285
586	0	CORRELATION	122.92	123.06	0.141
634	0	CORRELATION	120.03	120.15	0.114
635	0	CORRELATION	130.55	130.76	0.2081

NDD vs Post - Pre Exposure Delta

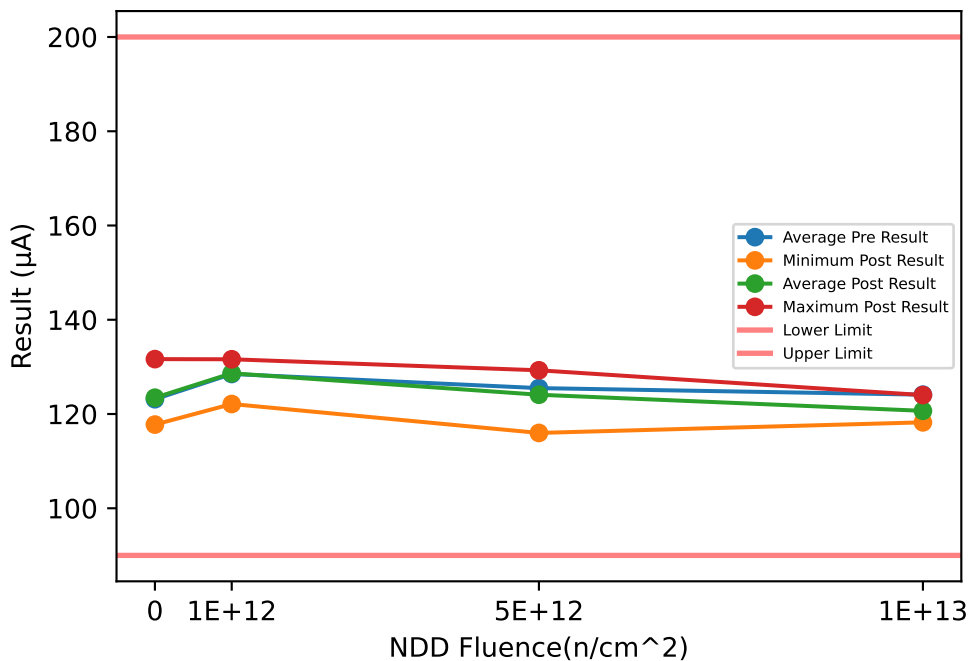


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	116.37	122.47	130.55	6.0209	116.39	122.59	130.76	6.0926	0.0285	0.1229	0.2081	0.074335
1e+12	121.41	128.09	130.99	4.5277	120.84	127.76	130.81	4.6542	-0.8375	-0.33102	0.0486	0.44068
5e+12	118.74	125.57	130.57	5.1041	115.33	122.43	127.5	5.3095	-3.4027	-3.1381	-2.7854	0.27195
1e+13	122.06	122.94	124.82	1.2679	115.09	116.29	117.82	1.1368	-7.002	-6.6543	-6.2443	0.38674

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

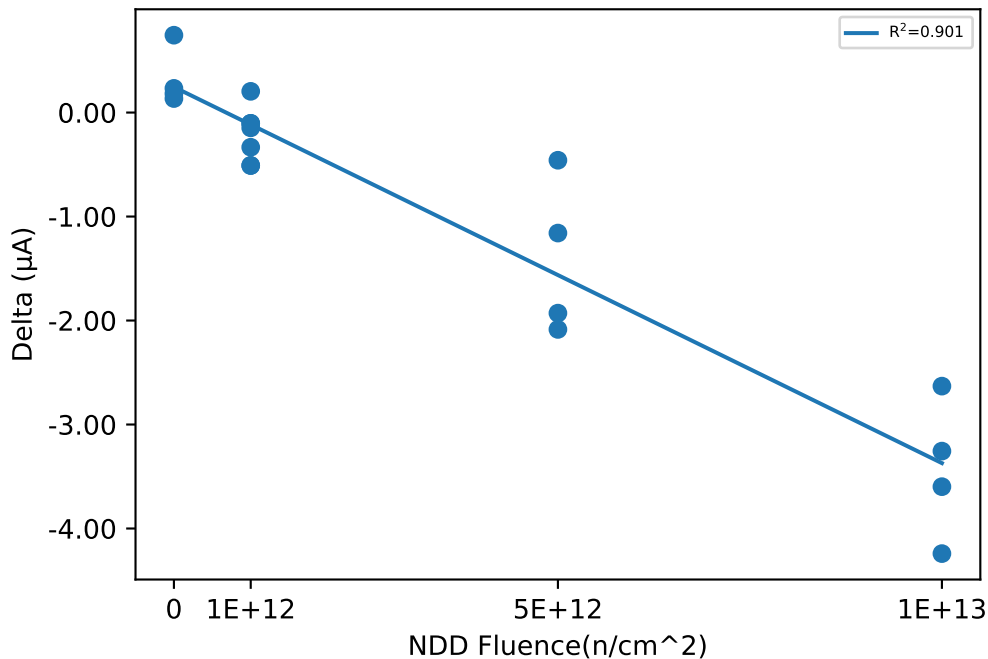
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	129.35	129.24	-0.1037
171	1e+12	NDD	122.27	122.12	-0.1471
269	1e+12	NDD	130.41	130.61	0.204
337	1e+12	NDD	131.95	131.62	-0.3336
357	5e+12	NDD	127.66	127.2	-0.4586
361	5e+12	NDD	130.44	129.28	-1.1589
373	5e+12	NDD	118.07	115.99	-2.0855
412	5e+12	NDD	125.83	123.9	-1.9289
470	1e+13	NDD	123.02	120.39	-2.6308
498	1e+13	NDD	121.49	118.23	-3.2557
503	1e+13	NDD	123.65	120.05	-3.5977
540	1e+13	NDD	128.26	124.02	-4.2413
553	0	CORRELATION	117.53	117.76	0.2326
586	0	CORRELATION	123.63	124.37	0.7439
634	0	CORRELATION	119.93	120.06	0.1348
635	0	CORRELATION	131.47	131.65	0.1819

NDD vs Post - Pre Exposure Delta

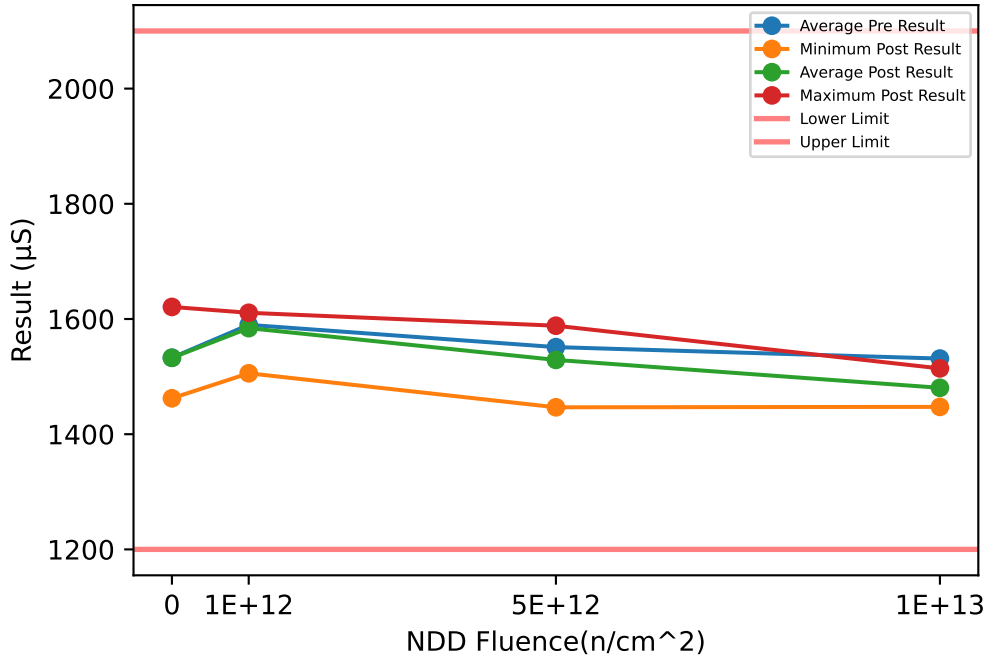


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	117.53	123.14	131.47	6.093	117.76	123.46	131.65	6.1074	0.1348	0.3233	0.7439	0.28323
1e+12	122.27	128.49	131.95	4.2844	122.12	128.4	131.62	4.2952	-0.3336	-0.0951	0.204	0.22295
5e+12	118.07	125.5	130.44	5.302	115.99	124.09	129.28	5.84	-2.0855	-1.408	-0.4586	0.75139
1e+13	121.49	124.11	128.26	2.9159	118.23	120.67	124.02	2.4242	-4.2413	-3.4314	-2.6308	0.67217

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

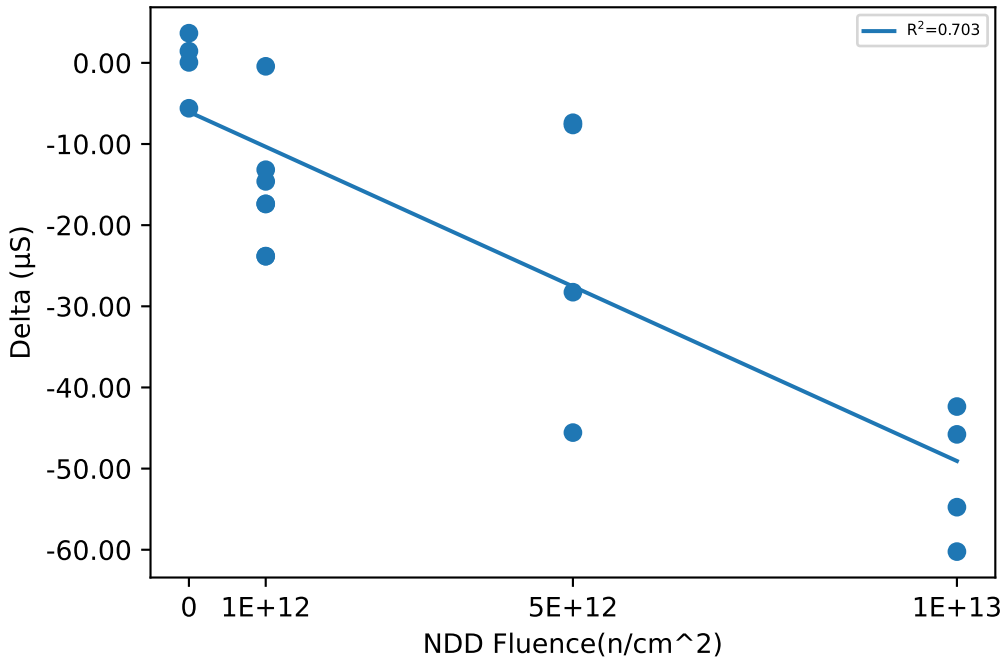
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1613.4	1596	-17.382
171	1e+12	NDD	1518.9	1505.7	-13.168
269	1e+12	NDD	1615.9	1601.3	-14.606
337	1e+12	NDD	1611.2	1610.8	-0.4254
357	5e+12	NDD	1601.5	1556	-45.563
361	5e+12	NDD	1596	1588.3	-7.653
373	5e+12	NDD	1475	1446.7	-28.261
412	5e+12	NDD	1532.2	1524.9	-7.381
470	1e+13	NDD	1525.3	1482.9	-42.353
498	1e+13	NDD	1507.6	1447.4	-60.228
503	1e+13	NDD	1532.3	1477.5	-54.754
540	1e+13	NDD	1560	1514.2	-45.782
553	0	CORRELATION	1462.3	1462.3	0.0574
586	0	CORRELATION	1540.7	1542.2	1.4446
634	0	CORRELATION	1501.3	1504.9	3.6561
635	0	CORRELATION	1626.6	1621	-5.5946

NDD vs Post - Pre Exposure Delta

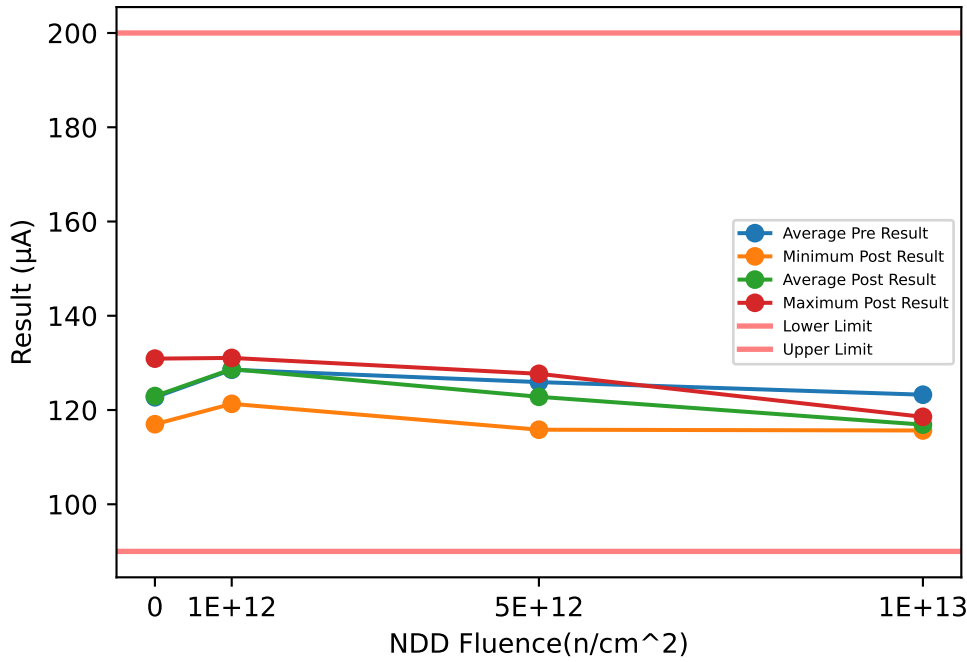


Test Statistics (µS)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1462.3	1532.7	1626.6	70.291	1462.3	1532.6	1621	67.341	-5.5946	-0.10912	3.6561	3.9458
1e+12	1518.9	1589.8	1615.9	47.338	1505.7	1578.5	1610.8	48.866	-17.382	-11.395	-0.4254	7.5194
5e+12	1475	1551.2	1601.5	59.757	1446.7	1529	1588.3	60.662	-45.563	-22.214	-7.381	18.383
1e+13	1507.6	1531.3	1560	21.775	1447.4	1480.5	1514.2	27.375	-60.228	-50.779	-42.353	8.1865

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

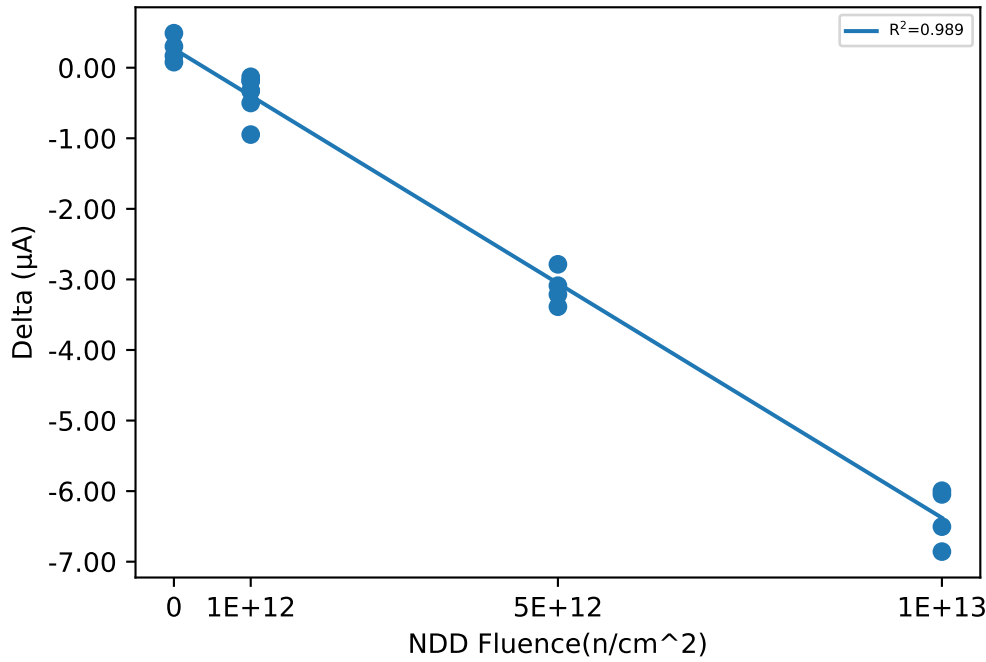
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	129.7	129.52	-0.1863
171	1e+12	NDD	121.81	121.31	-0.4999
269	1e+12	NDD	131.18	131.06	-0.1287
337	1e+12	NDD	131.51	130.56	-0.9477
357	5e+12	NDD	128.33	125.54	-2.786
361	5e+12	NDD	130.77	127.68	-3.089
373	5e+12	NDD	119.21	115.82	-3.3868
412	5e+12	NDD	125.38	122.17	-3.2135
470	1e+13	NDD	122.57	116.52	-6.0466
498	1e+13	NDD	122.51	115.66	-6.8569
503	1e+13	NDD	122.86	116.87	-5.9941
540	1e+13	NDD	125.06	118.55	-6.5034
553	0	CORRELATION	116.82	116.99	0.1678
586	0	CORRELATION	123.4	123.48	0.0787
634	0	CORRELATION	119.99	120.48	0.4891
635	0	CORRELATION	130.6	130.9	0.3015

NDD vs Post - Pre Exposure Delta

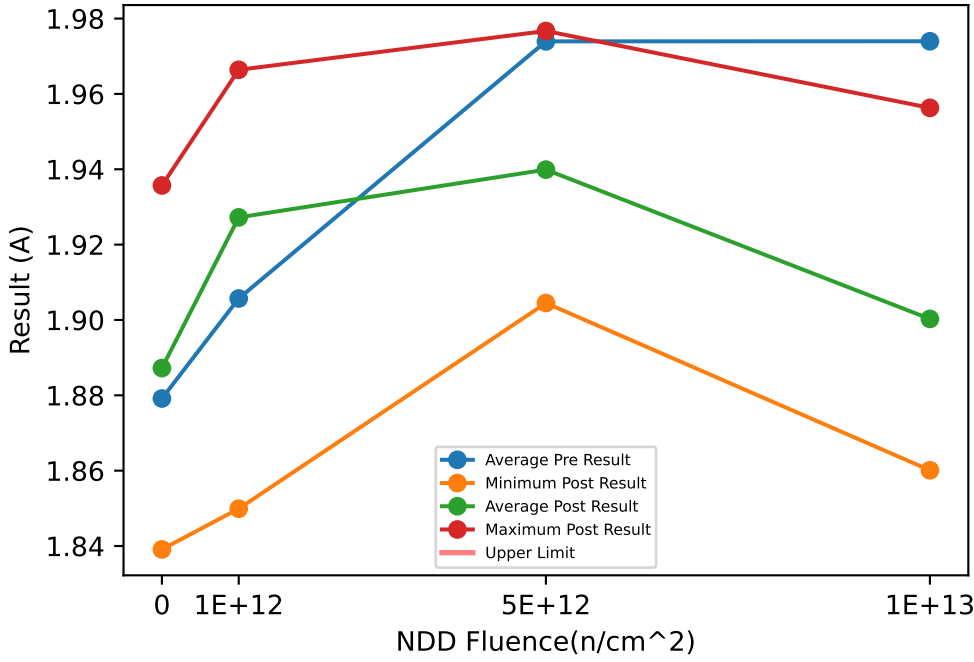


Test Statistics (µA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	116.82	122.7	130.6	5.9125	116.99	122.96	130.9	5.922	0.0787	0.25928	0.4891	0.17849
1e+12	121.81	128.55	131.51	4.5615	121.31	128.11	131.06	4.578	-0.9477	-0.44065	-0.1287	0.37533
5e+12	119.21	125.92	130.77	4.9907	115.82	122.8	127.68	5.1803	-3.3868	-3.1188	-2.786	0.25327
1e+13	122.51	123.25	125.06	1.2139	115.66	116.9	118.55	1.2138	-6.8569	-6.3503	-5.9941	0.40792

Device Test: 19.14 LEVEL|SINK/SW/4.5////@LS_CURR_LIM_SINKING_25C

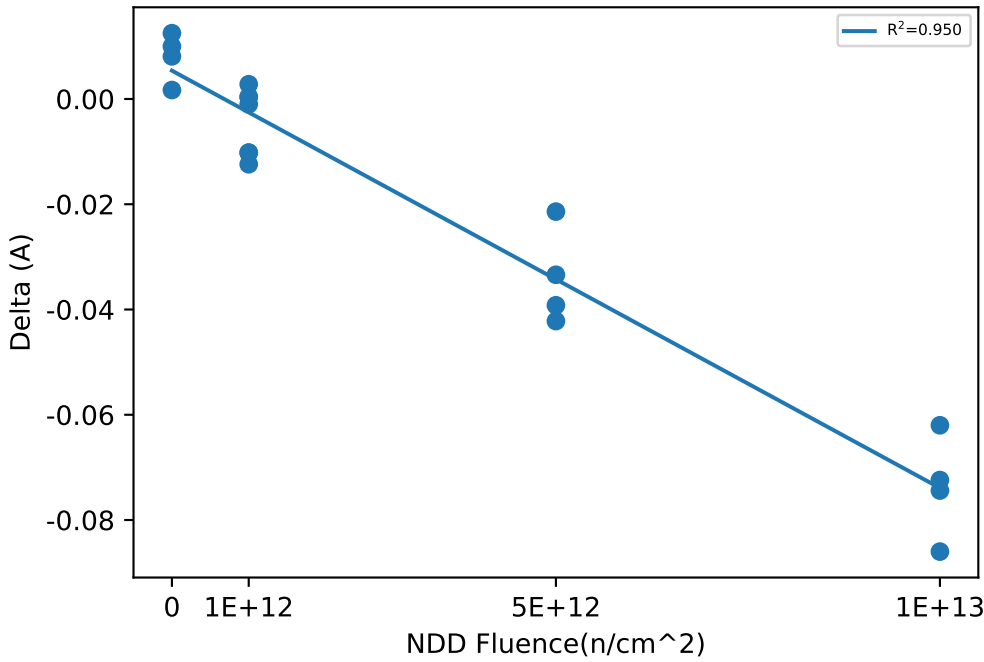
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.966	1.9558	-0.0102
171	1e+12	NDD	1.8623	1.8499	-0.0124
269	1e+12	NDD	1.9034	1.9024	-0.001
337	1e+12	NDD	1.8911	1.8939	0.0028
357	5e+12	NDD	2.0189	1.9767	-0.0422
361	5e+12	NDD	1.9777	1.9443	-0.0334
373	5e+12	NDD	1.9555	1.9341	-0.0214
412	5e+12	NDD	1.9437	1.9045	-0.0392
470	1e+13	NDD	1.9336	1.8716	-0.062
498	1e+13	NDD	1.9461	1.8601	-0.086
503	1e+13	NDD	1.9875	1.9131	-0.0744
540	1e+13	NDD	2.0287	1.9563	-0.0724
553	0	CORRELATION	1.8494	1.8511	0.0017
586	0	CORRELATION	1.9149	1.923	0.0081
634	0	CORRELATION	1.8291	1.8391	0.01
635	0	CORRELATION	1.9232	1.9357	0.0125

NDD vs Post - Pre Exposure Delta

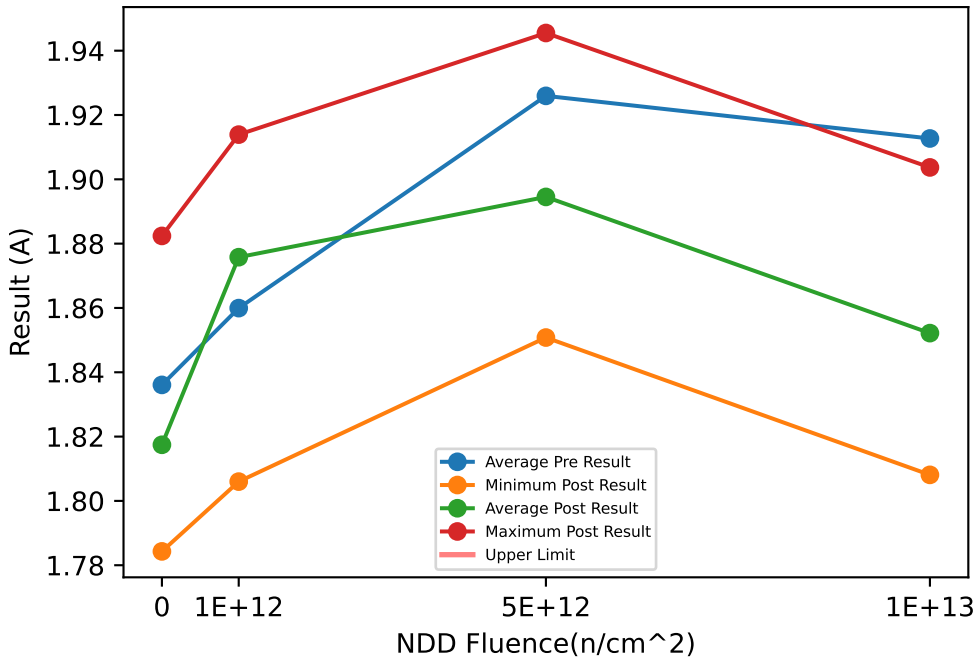


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8291	1.8792	1.9232	0.046934	1.8391	1.8872	1.9357	0.049162	0.0017	0.008075	0.0125	0.0046162
1e+12	1.8623	1.9057	1.966	0.043734	1.8499	1.9005	1.9558	0.043457	-0.0124	-0.0052	0.0028	0.0072682
5e+12	1.9437	1.9739	2.0189	0.033116	1.9045	1.9399	1.9767	0.029779	-0.0422	-0.03405	-0.0214	0.0091904
1e+13	1.9336	1.974	2.0287	0.043147	1.8601	1.9003	1.9563	0.04374	-0.086	-0.0737	-0.062	0.009838

Device Test: 19.17 LEVEL|SINK/SW/5////@LS_CURR_LIM_SINKING_25C

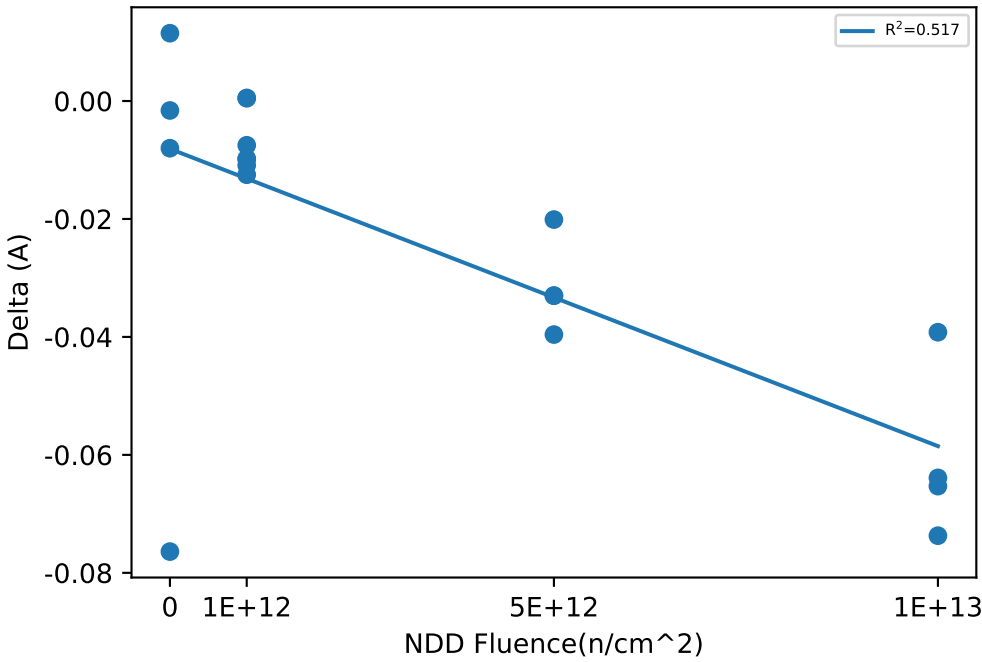
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.9134	1.9036	-0.0098
171	1e+12	NDD	1.8185	1.806	-0.0125
269	1e+12	NDD	1.8496	1.8387	-0.0109
337	1e+12	NDD	1.8583	1.8508	-0.0075
357	5e+12	NDD	1.9656	1.9455	-0.0201
361	5e+12	NDD	1.9342	1.9012	-0.033
373	5e+12	NDD	1.9136	1.8806	-0.033
412	5e+12	NDD	1.8904	1.8508	-0.0396
470	1e+13	NDD	1.8818	1.8081	-0.0737
498	1e+13	NDD	1.8923	1.827	-0.0653
503	1e+13	NDD	1.9338	1.8699	-0.0639
540	1e+13	NDD	1.9429	1.9037	-0.0392
553	0	CORRELATION	1.8072	1.8187	0.0115
586	0	CORRELATION	1.8607	1.7843	-0.0764
634	0	CORRELATION	1.786	1.7844	-0.0016
635	0	CORRELATION	1.8904	1.8824	-0.008

NDD vs Post - Pre Exposure Delta

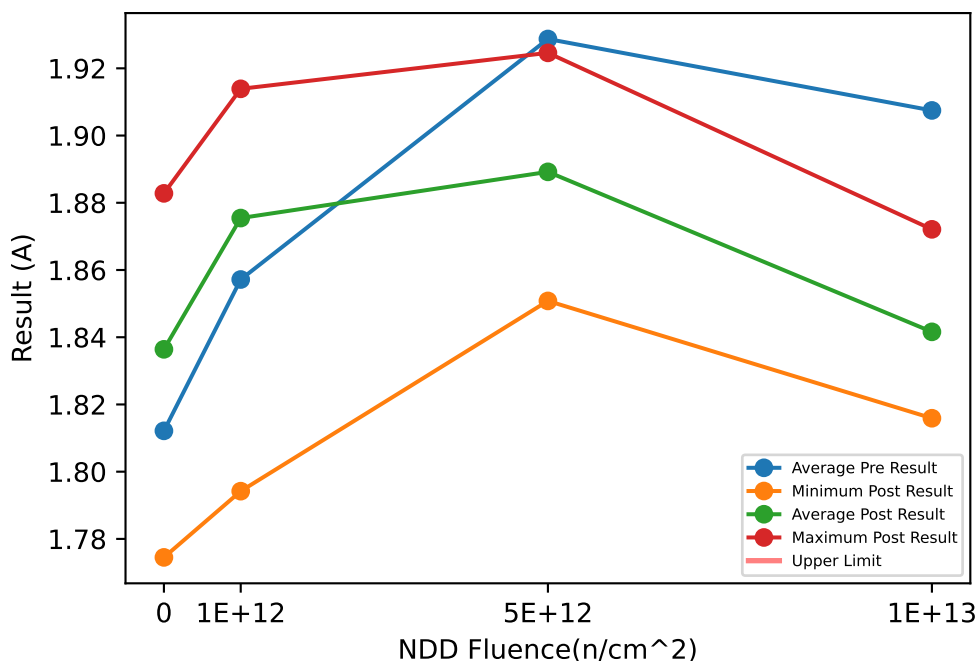


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.786	1.8361	1.8904	0.047954	1.7843	1.8175	1.8824	0.046229	-0.0764	-0.018625	0.0115	0.039362
1e+12	1.8185	1.8599	1.9134	0.039517	1.806	1.8498	1.9036	0.040567	-0.0125	-0.010175	-0.0075	0.0020998
5e+12	1.8904	1.926	1.9656	0.031919	1.8508	1.8945	1.9455	0.039786	-0.0396	-0.031425	-0.0201	0.0081659
1e+13	1.8818	1.9127	1.9429	0.030156	1.8081	1.8522	1.9037	0.042994	-0.0737	-0.060525	-0.0392	0.014861

Device Test: 19.20 LEVEL|SINK/SW/12////@LS_CURR_LIM_SINKING_25C

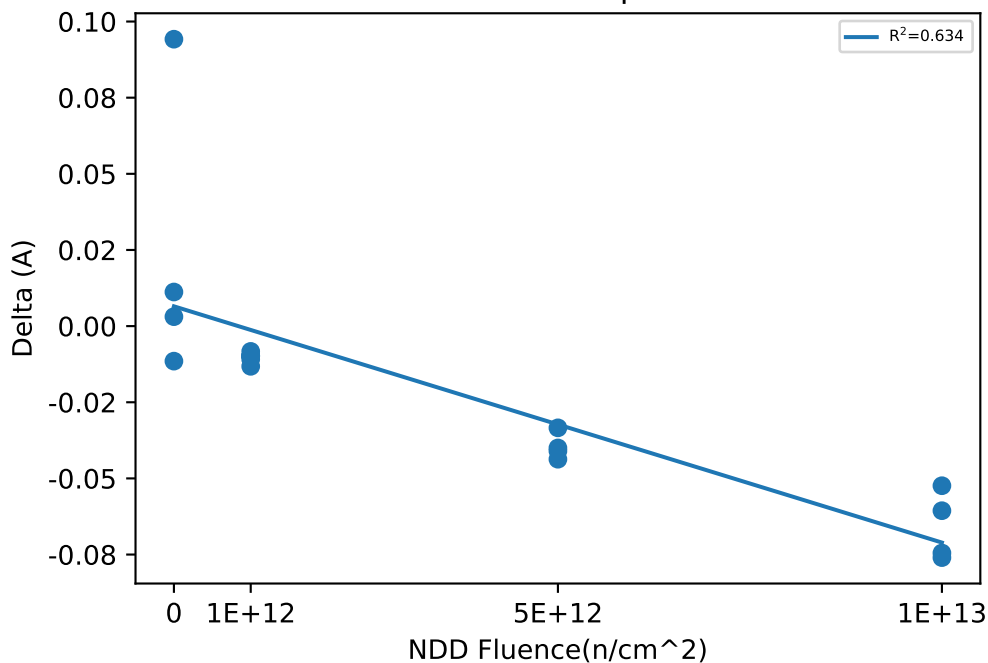
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.9237	1.9139	-0.0098
171	1e+12	NDD	1.8074	1.7942	-0.0132
269	1e+12	NDD	1.8496	1.8387	-0.0109
337	1e+12	NDD	1.848	1.8397	-0.0083
357	5e+12	NDD	1.9656	1.9246	-0.041
361	5e+12	NDD	1.9346	1.9012	-0.0334
373	5e+12	NDD	1.9239	1.8802	-0.0437
412	5e+12	NDD	1.8908	1.8508	-0.04
470	1e+13	NDD	1.8711	1.8187	-0.0524
498	1e+13	NDD	1.8919	1.8159	-0.076
503	1e+13	NDD	1.9342	1.8597	-0.0745
540	1e+13	NDD	1.9327	1.8721	-0.0606
553	0	CORRELATION	1.8075	1.8187	0.0112
586	0	CORRELATION	1.7754	1.8696	0.0942
634	0	CORRELATION	1.786	1.7745	-0.0115
635	0	CORRELATION	1.8797	1.8828	0.0031

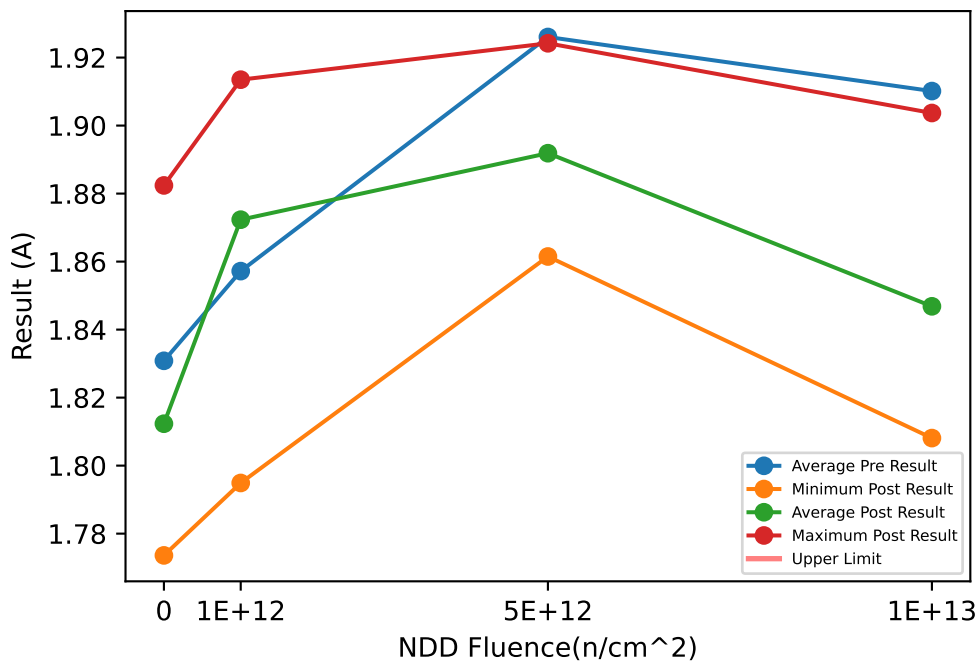
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7754	1.8121	1.8797	0.046972	1.7745	1.8364	1.8828	0.049666	-0.0115	0.02425	0.0942	0.04757
1e+12	1.8074	1.8572	1.9237	0.048459	1.7942	1.8466	1.9139	0.049615	-0.0132	-0.01055	-0.0083	0.0020632
5e+12	1.8908	1.9287	1.9656	0.030854	1.8508	1.8892	1.9246	0.031373	-0.0437	-0.039525	-0.0334	0.0043722
1e+13	1.8711	1.9075	1.9342	0.031178	1.8159	1.8416	1.8721	0.028535	-0.076	-0.065875	-0.0524	0.011348

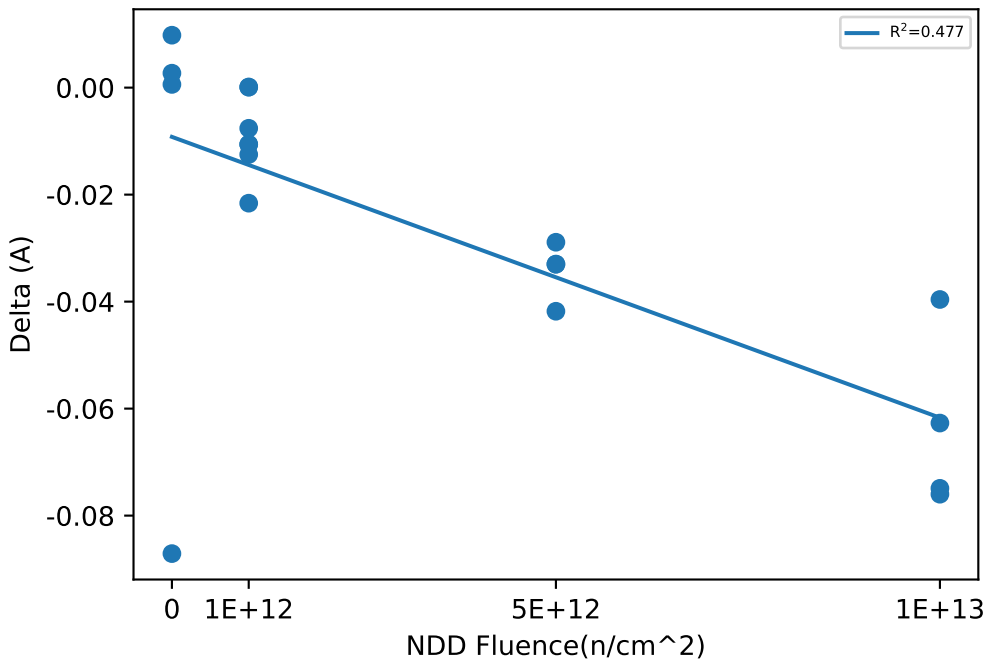
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.9134	1.9028	-0.0106
171	1e+12	NDD	1.8074	1.7949	-0.0125
269	1e+12	NDD	1.8603	1.8387	-0.0216
337	1e+12	NDD	1.8477	1.8401	-0.0076
357	5e+12	NDD	1.966	1.9242	-0.0418
361	5e+12	NDD	1.9342	1.9012	-0.033
373	5e+12	NDD	1.9136	1.8806	-0.033
412	5e+12	NDD	1.8904	1.8615	-0.0289
470	1e+13	NDD	1.8708	1.8081	-0.0627
498	1e+13	NDD	1.8923	1.8163	-0.076
503	1e+13	NDD	1.9342	1.8593	-0.0749
540	1e+13	NDD	1.9433	1.9037	-0.0396
553	0	CORRELATION	1.8075	1.8081	0.0006
586	0	CORRELATION	1.8607	1.7736	-0.0871
634	0	CORRELATION	1.7754	1.7852	0.0098
635	0	CORRELATION	1.8797	1.8824	0.0027

NDD vs Post - Pre Exposure Delta

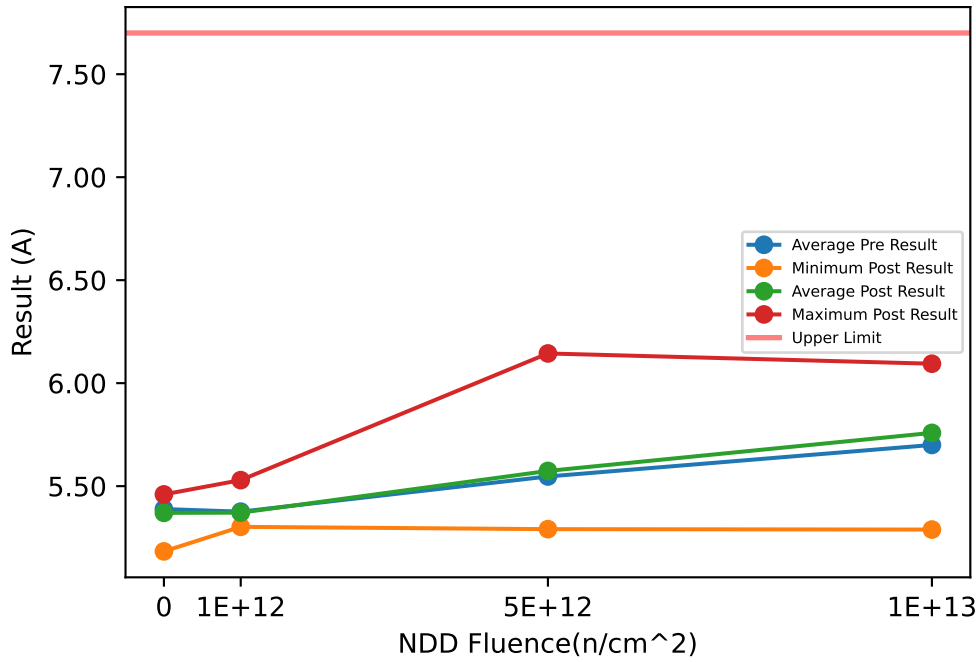


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.7754	1.8308	1.8797	0.047949	1.7736	1.8123	1.8824	0.048866	-0.0871	-0.0185	0.0098	0.045902
1e+12	1.8074	1.8572	1.9134	0.043735	1.7949	1.8441	1.9028	0.04439	-0.0216	-0.013075	-0.0076	0.0060307
5e+12	1.8904	1.9261	1.966	0.032085	1.8615	1.8919	1.9242	0.026967	-0.0418	-0.034175	-0.0289	0.0054384
1e+13	1.8708	1.9102	1.9433	0.034372	1.8081	1.8468	1.9037	0.044052	-0.076	-0.0633	-0.0396	0.016911

Device Test: 20.107 THRESHOLD|RISE/SW/12/////@HS_CURR_LIM_3A_HTSSOP

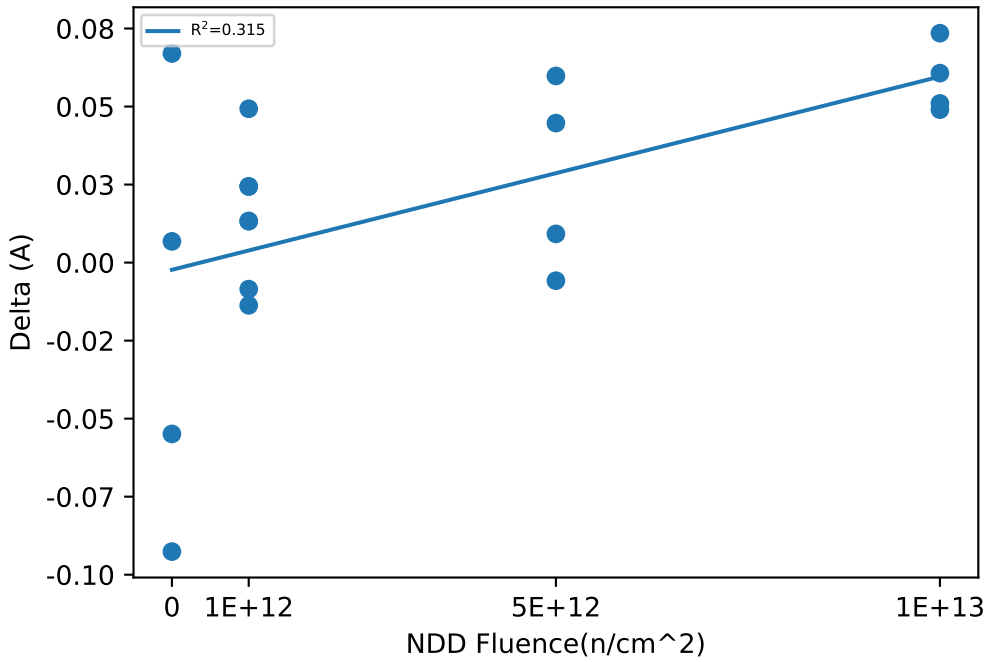
NDD vs Result Stats



Test Results (Upper Limit = 7.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.3304	5.3548	0.0244
171	1e+12	NDD	5.3109	5.3024	-0.0085
269	1e+12	NDD	5.3202	5.3695	0.0493
337	1e+12	NDD	5.5429	5.5292	-0.0137
357	5e+12	NDD	5.282	5.2912	0.0092
361	5e+12	NDD	5.5264	5.5206	-0.0058
373	5e+12	NDD	5.2949	5.3396	0.0447
412	5e+12	NDD	6.0844	6.1442	0.0598
470	1e+13	NDD	5.9667	6.0177	0.051
498	1e+13	NDD	6.0337	6.0944	0.0607
503	1e+13	NDD	5.5841	5.6331	0.049
540	1e+13	NDD	5.2157	5.2892	0.0735
553	0	CORRELATION	5.2381	5.1832	-0.0549
586	0	CORRELATION	5.3917	5.3985	0.0068
634	0	CORRELATION	5.3727	5.4397	0.067
635	0	CORRELATION	5.5525	5.4599	-0.0926

NDD vs Post - Pre Exposure Delta

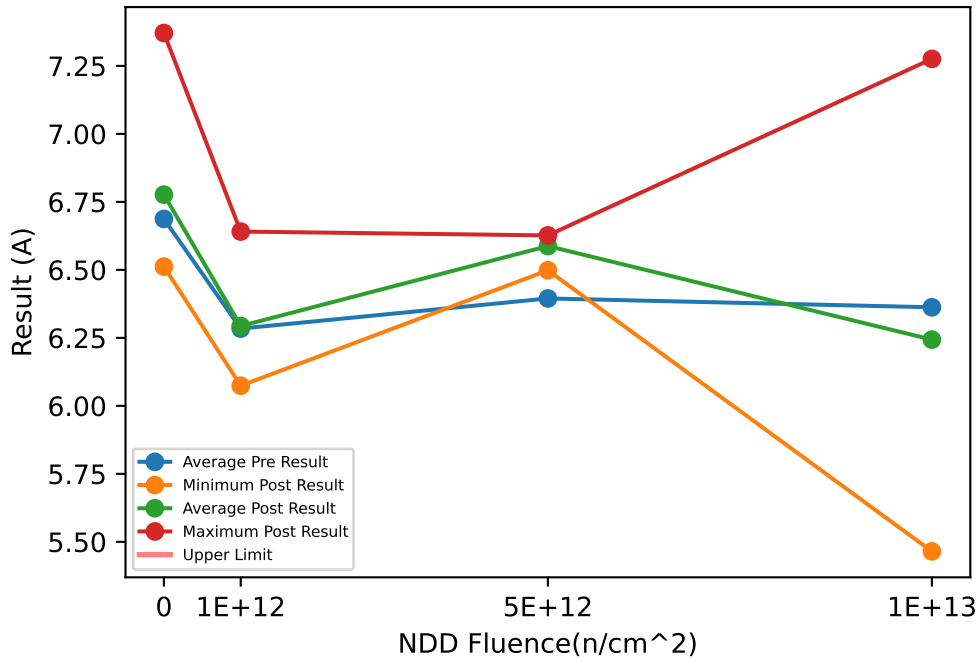


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.2381	5.3887	5.5525	0.12881	5.1832	5.3703	5.4599	0.12734	-0.0926	-0.018425	0.067	0.070157
1e+12	5.3109	5.3761	5.5429	0.11148	5.3024	5.389	5.5292	0.097819	-0.0137	0.012875	0.0493	0.029568
5e+12	5.282	5.5469	6.0844	0.3755	5.2912	5.5739	6.1442	0.39281	-0.0058	0.026975	0.0598	0.030451
1e+13	5.2157	5.7001	6.0337	0.3788	5.2892	5.7586	6.0944	0.37237	0.049	0.05855	0.0735	0.0112

Device Test: 20.108 THRESHOLD|RISE/SW/12////@HS_CURR_LIM2_3A_HTSSOP

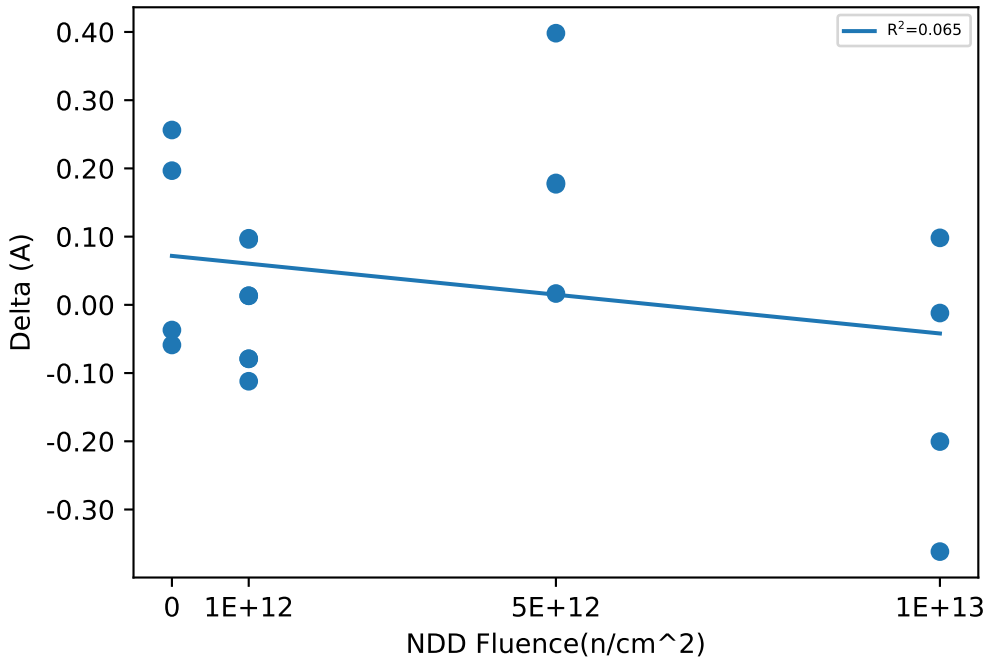
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.3229	6.3362	0.0133
171	1e+12	NDD	6.0825	6.1801	0.0976
269	1e+12	NDD	6.1861	6.0741	-0.112
337	1e+12	NDD	6.545	6.6409	0.0959
357	5e+12	NDD	6.5849	6.6015	0.0166
361	5e+12	NDD	6.4481	6.6268	0.1787
373	5e+12	NDD	6.2253	6.6235	0.3982
412	5e+12	NDD	6.3217	6.4984	0.1767
470	1e+13	NDD	7.2878	7.2758	-0.012
498	1e+13	NDD	6.5396	6.1779	-0.3617
503	1e+13	NDD	6.2558	6.0554	-0.2004
540	1e+13	NDD	5.3667	5.4649	0.0982
553	0	CORRELATION	6.6187	6.5599	-0.0588
586	0	CORRELATION	7.4079	7.371	-0.0369
634	0	CORRELATION	6.4071	6.6634	0.2563
635	0	CORRELATION	6.3154	6.5121	0.1967

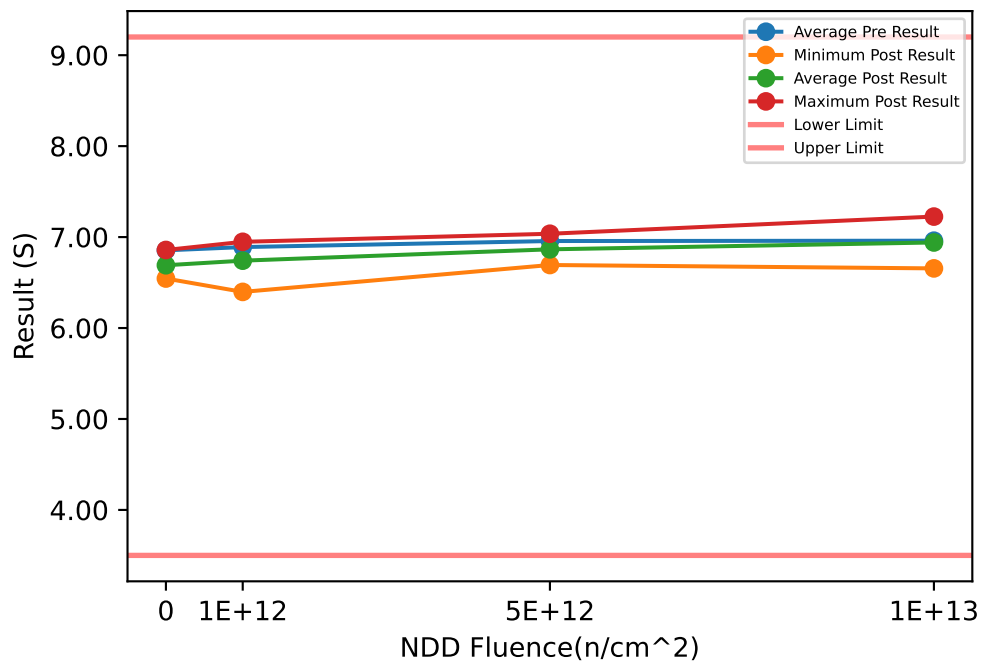
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.3154	6.6873	7.4079	0.49692	6.5121	6.7766	7.371	0.40127	-0.0588	0.089325	0.2563	0.1605
1e+12	6.0825	6.2841	6.545	0.19985	6.0741	6.3078	6.6409	0.24677	-0.112	0.0237	0.0976	0.098652
5e+12	6.2253	6.395	6.5849	0.15605	6.4984	6.5876	6.6268	0.060485	0.0166	0.19255	0.3982	0.15673
1e+13	5.3667	6.3625	7.2878	0.79384	5.4649	6.2435	7.2758	0.75532	-0.3617	-0.11897	0.0982	0.20343

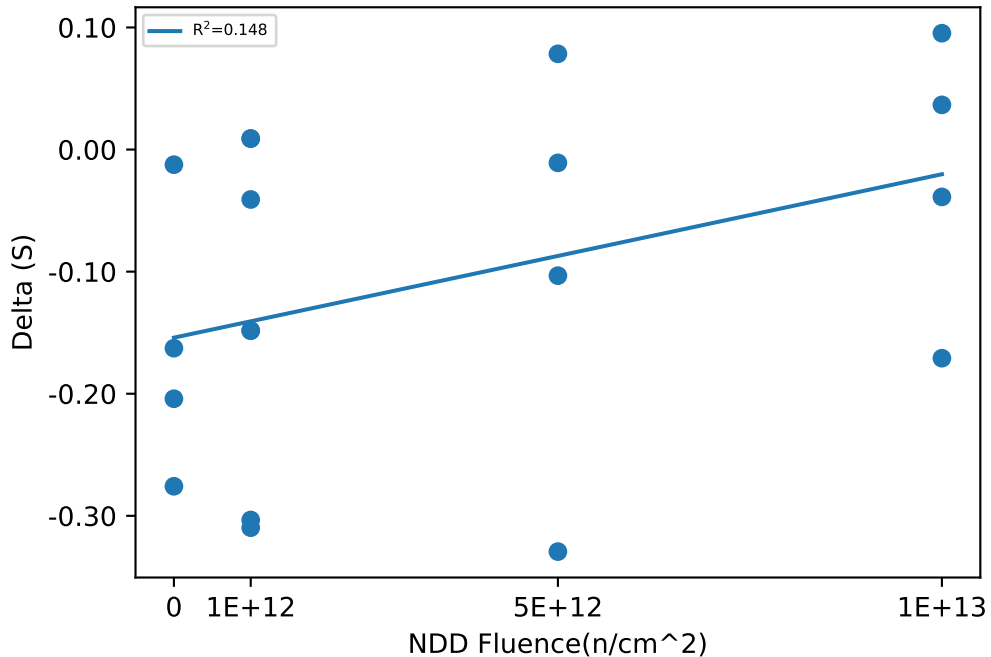
NDD vs Result Stats



Test Results (Lower Limit = 3.5, Upper Limit = 9.2 (S))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.8524	6.8614	0.009
171	1e+12	NDD	6.7069	6.3972	-0.3097
269	1e+12	NDD	6.7495	6.7086	-0.0409
337	1e+12	NDD	7.2513	6.9479	-0.3034
357	5e+12	NDD	6.9806	6.8773	-0.1033
361	5e+12	NDD	6.7039	6.693	-0.0109
373	5e+12	NDD	7.1836	6.8543	-0.3293
412	5e+12	NDD	6.9581	7.0365	0.0784
470	1e+13	NDD	7.1301	7.2254	0.0953
498	1e+13	NDD	7.3086	7.1377	-0.1709
503	1e+13	NDD	6.7829	6.7441	-0.0388
540	1e+13	NDD	6.6192	6.6558	0.0366
553	0	CORRELATION	6.8334	6.6293	-0.2041
586	0	CORRELATION	6.707	6.5443	-0.1627
634	0	CORRELATION	7.0055	6.7297	-0.2758
635	0	CORRELATION	6.8705	6.8581	-0.0124

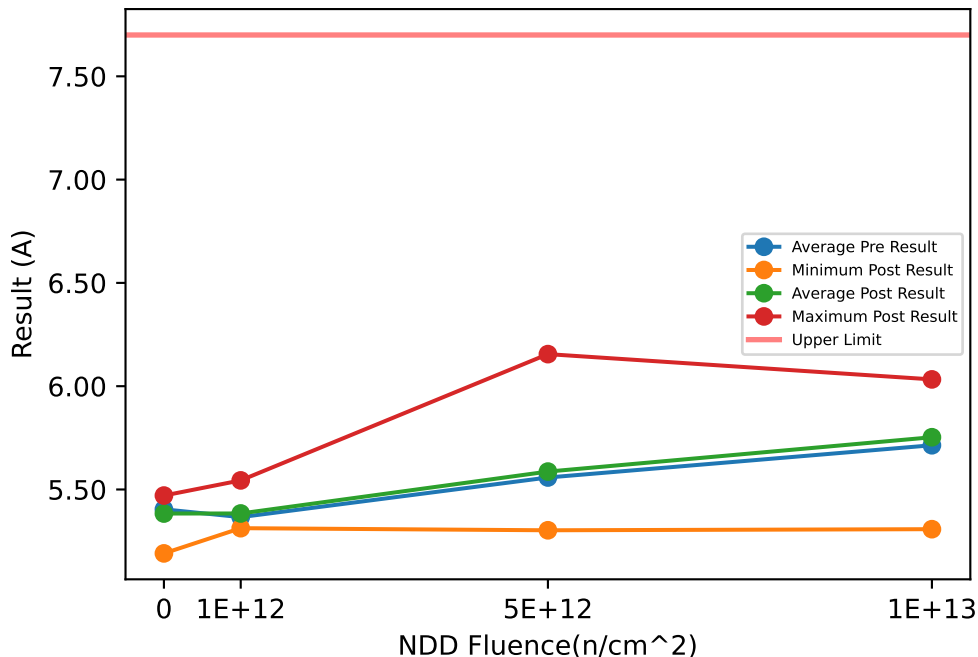
NDD vs Post - Pre Exposure Delta



Test Statistics (S)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.707	6.8541	7.0055	0.12282	6.5443	6.6904	6.8581	0.13509	-0.2758	-0.16375	-0.0124	0.11119
1e+12	6.7069	6.89	7.2513	0.24847	6.3972	6.7288	6.9479	0.24218	-0.3097	-0.16125	0.009	0.16903
5e+12	6.7039	6.9566	7.1836	0.19661	6.693	6.8653	7.0365	0.14055	-0.3293	-0.091275	0.0784	0.17517
1e+13	6.6192	6.9602	7.3086	0.31515	6.6558	6.9407	7.2254	0.28266	-0.1709	-0.01945	0.0953	0.11492

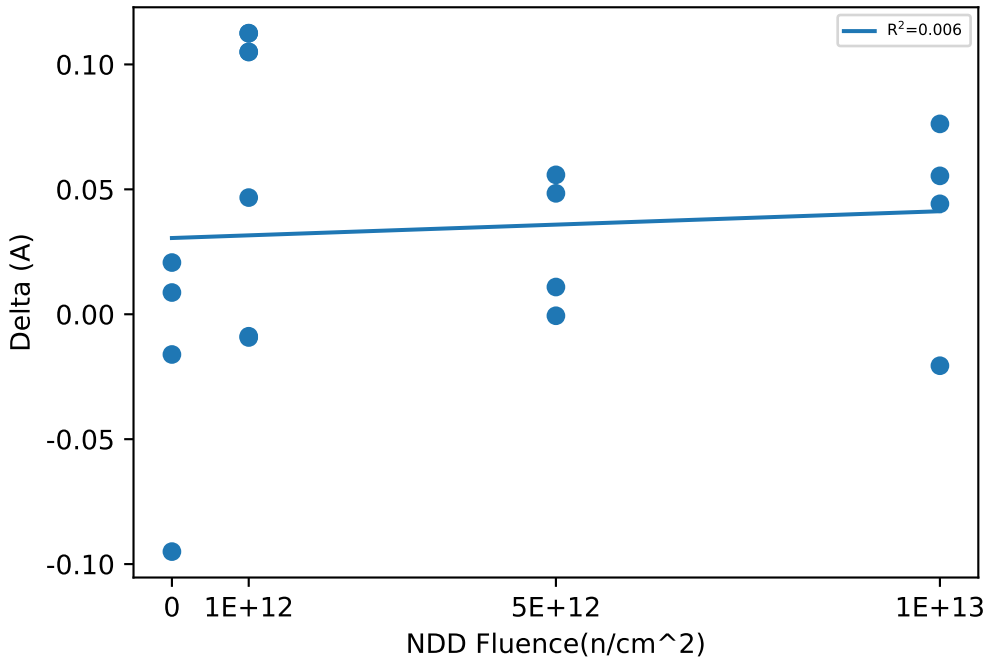
NDD vs Result Stats



Test Results (Upper Limit = 7.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.253	5.3655	0.1125
171	1e+12	NDD	5.3215	5.3127	-0.0088
269	1e+12	NDD	5.3369	5.3836	0.0467
337	1e+12	NDD	5.5533	5.544	-0.0093
357	5e+12	NDD	5.2916	5.3025	0.0109
361	5e+12	NDD	5.5354	5.5348	-0.0006
373	5e+12	NDD	5.3056	5.354	0.0484
412	5e+12	NDD	6.0994	6.1552	0.0558
470	1e+13	NDD	5.9873	6.0315	0.0442
498	1e+13	NDD	6.0535	6.0329	-0.0206
503	1e+13	NDD	5.5839	5.6393	0.0554
540	1e+13	NDD	5.2316	5.3078	0.0762
553	0	CORRELATION	5.1699	5.1906	0.0207
586	0	CORRELATION	5.4077	5.4164	0.0087
634	0	CORRELATION	5.4726	5.4565	-0.0161
635	0	CORRELATION	5.5656	5.4706	-0.095

NDD vs Post - Pre Exposure Delta

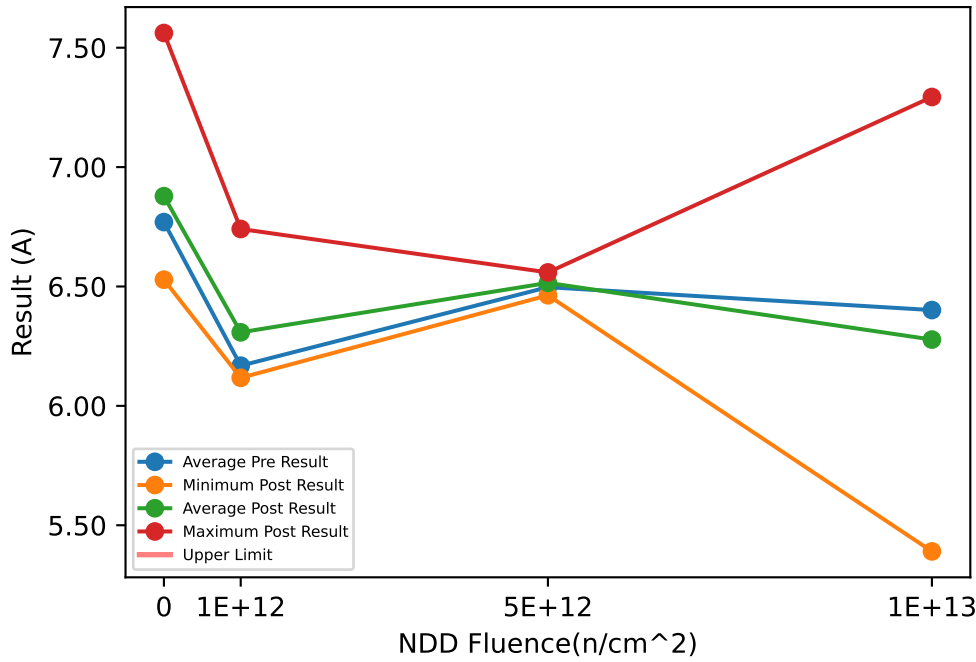


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.1699	5.404	5.5656	0.16895	5.1906	5.3835	5.4706	0.13065	-0.095	-0.020425	0.0207	0.052025
1e+12	5.253	5.3662	5.5533	0.12997	5.3127	5.4015	5.544	0.09968	-0.0093	0.035275	0.1125	0.057804
5e+12	5.2916	5.558	6.0994	0.37784	5.3025	5.5866	6.1552	0.39192	-0.0006	0.028625	0.0558	0.027676
1e+13	5.2316	5.7141	6.0535	0.38279	5.3078	5.7529	6.0329	0.34978	-0.0206	0.0388	0.0762	0.041761

Device Test: 20.159 THRESHOLD|RISE/SW/14////@HS_CURR_LIM2_3A_HTSSOP

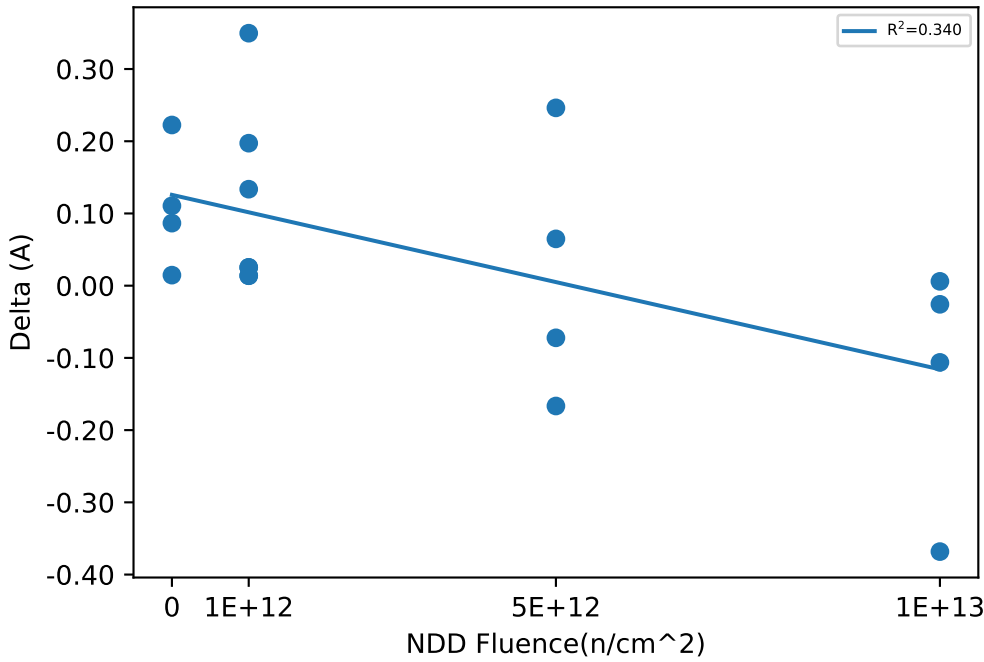
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.2413	6.2666	0.0253
171	1e+12	NDD	5.9202	6.1175	0.1973
269	1e+12	NDD	6.1205	6.2541	0.1336
337	1e+12	NDD	6.3912	6.7408	0.3496
357	5e+12	NDD	6.5988	6.5266	-0.0722
361	5e+12	NDD	6.6297	6.4631	-0.1666
373	5e+12	NDD	6.4941	6.5589	0.0648
412	5e+12	NDD	6.2657	6.5119	0.2462
470	1e+13	NDD	7.3998	7.2936	-0.1062
498	1e+13	NDD	6.563	6.1948	-0.3682
503	1e+13	NDD	6.2575	6.2317	-0.0258
540	1e+13	NDD	5.3845	5.3905	0.006
553	0	CORRELATION	6.5485	6.6591	0.1106
586	0	CORRELATION	7.3391	7.5616	0.2225
634	0	CORRELATION	6.6771	6.7637	0.0866
635	0	CORRELATION	6.5139	6.5285	0.0146

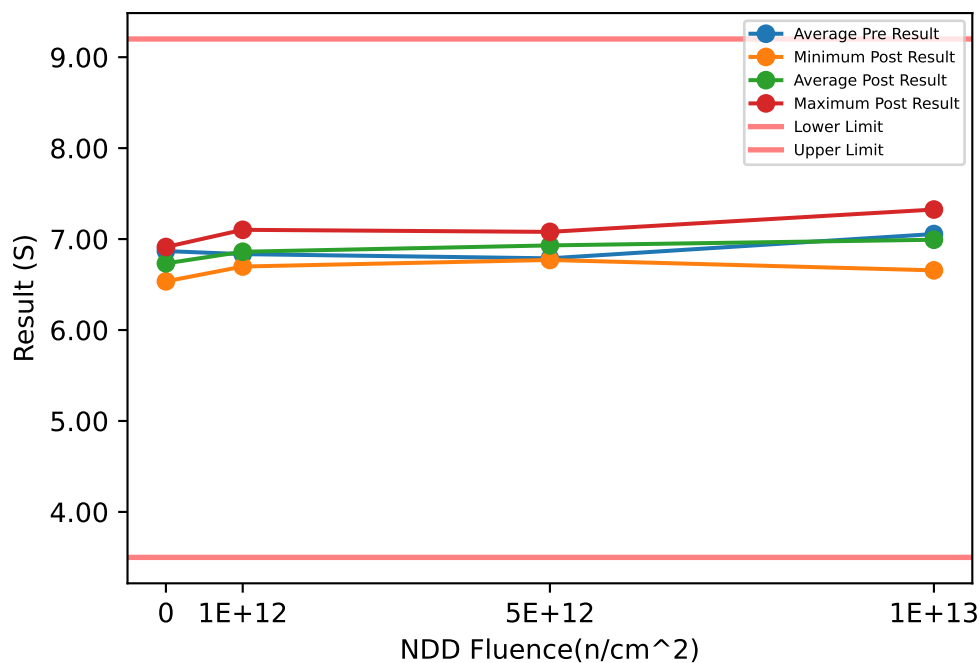
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.5139	6.7697	7.3391	0.38607	6.5285	6.8782	7.5616	0.46563	0.0146	0.10858	0.2225	0.086211
1e+12	5.9202	6.1683	6.3912	0.19904	6.1175	6.3448	6.7408	0.27253	0.0253	0.17645	0.3496	0.13552
5e+12	6.2657	6.4971	6.6297	0.1648	6.4631	6.5151	6.5589	0.039854	-0.1666	0.01805	0.2462	0.17933
1e+13	5.3845	6.4012	7.3998	0.83221	5.3905	6.2776	7.2936	0.78063	-0.3682	-0.12355	0.006	0.1698

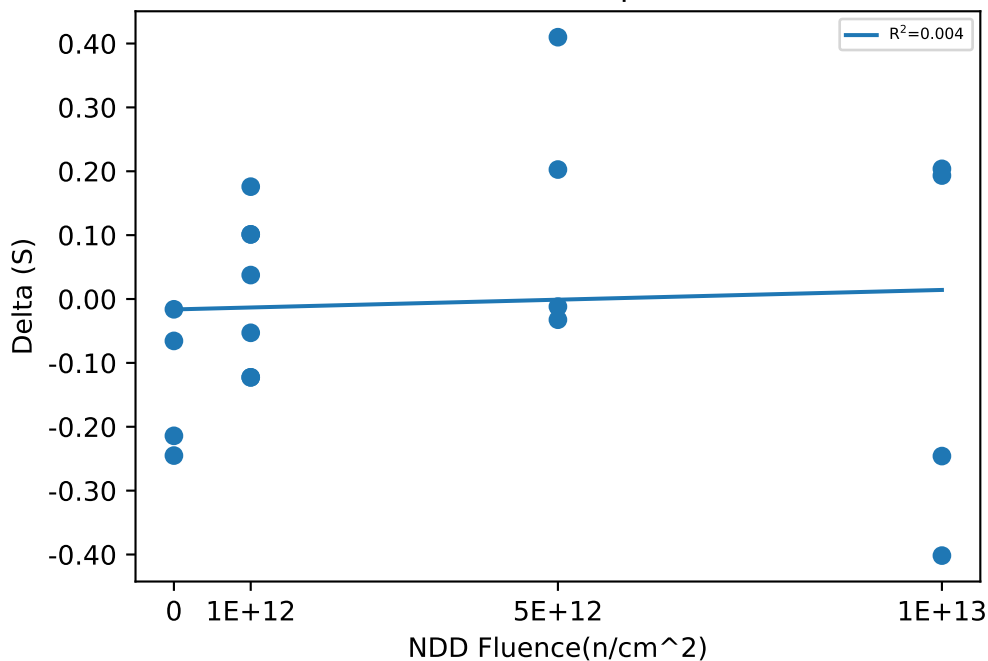
NDD vs Result Stats



Test Results (Lower Limit = 3.5, Upper Limit = 9.2 (S))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.8567	6.7341	-0.1226
171	1e+12	NDD	6.6656	6.8415	0.1759
269	1e+12	NDD	6.6607	6.6982	0.0375
337	1e+12	NDD	7.1547	7.1018	-0.0529
357	5e+12	NDD	6.7799	6.9826	0.2027
361	5e+12	NDD	6.3606	6.7705	0.4099
373	5e+12	NDD	7.1116	7.0792	-0.0324
412	5e+12	NDD	6.9015	6.8896	-0.0119
470	1e+13	NDD	7.121	7.3248	0.2038
498	1e+13	NDD	7.1151	7.3084	0.1933
503	1e+13	NDD	7.0578	6.6561	-0.4017
540	1e+13	NDD	6.9278	6.6819	-0.2459
553	0	CORRELATION	6.7926	6.7765	-0.0161
586	0	CORRELATION	6.7802	6.5351	-0.2451
634	0	CORRELATION	6.9784	6.9128	-0.0656
635	0	CORRELATION	6.9219	6.7077	-0.2142

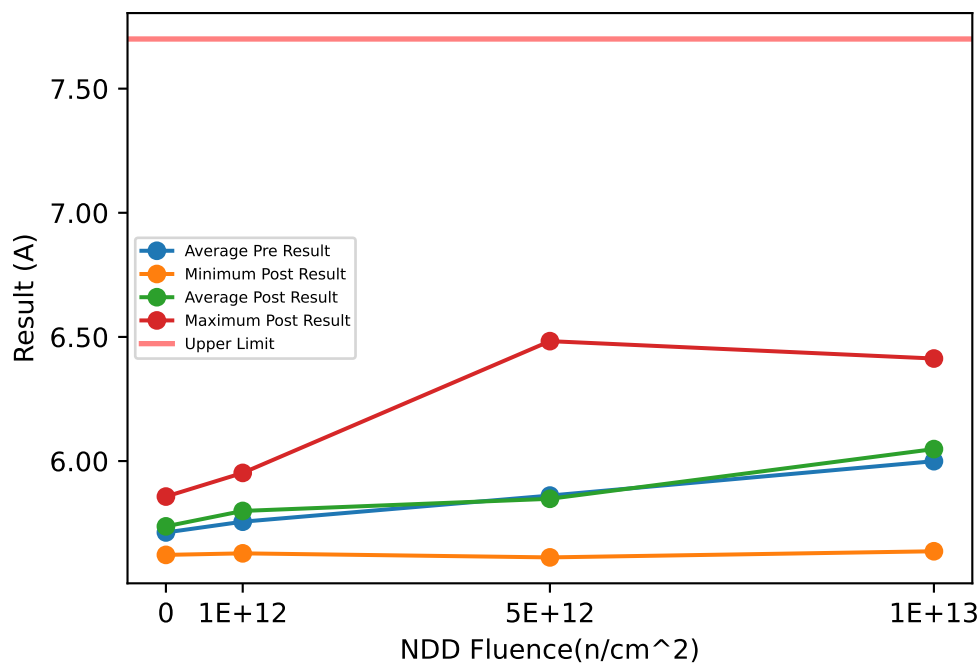
NDD vs Post - Pre Exposure Delta



Test Statistics (S)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.7802	6.8683	6.9784	0.097446	6.5351	6.733	6.9128	0.15708	-0.2451	-0.13525	-0.0161	0.11158
1e+12	6.6607	6.8344	7.1547	0.2322	6.6982	6.8439	7.1018	0.18239	-0.1226	0.009475	0.1759	0.12886
5e+12	6.3606	6.7884	7.1116	0.3164	6.7705	6.9305	7.0792	0.13178	-0.0324	0.14207	0.4099	0.20781
1e+13	6.9278	7.0554	7.121	0.089731	6.6561	6.9928	7.3248	0.3741	-0.4017	-0.062625	0.2038	0.30824

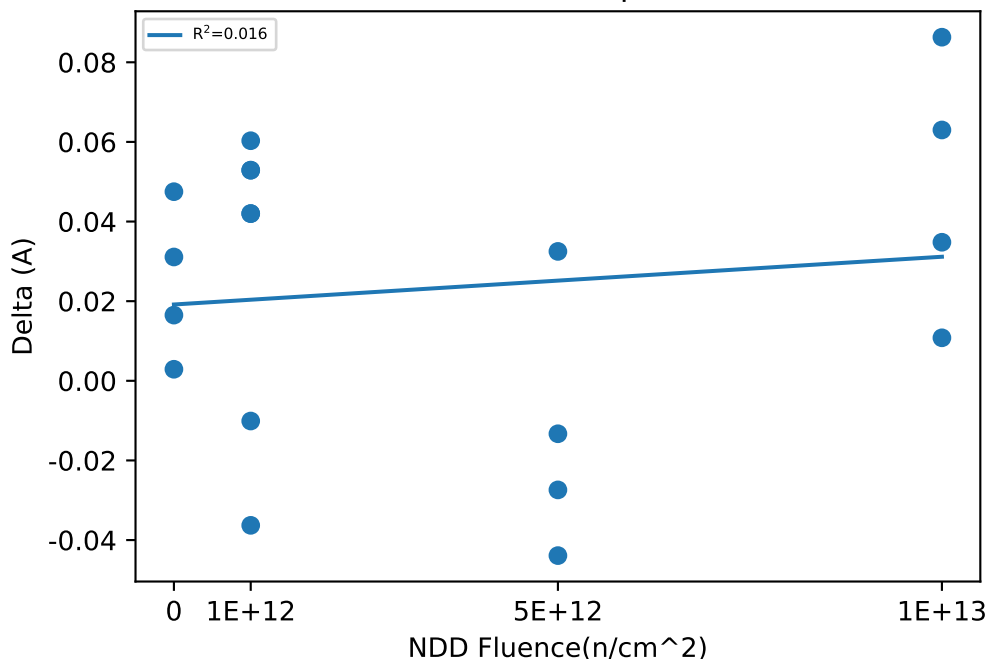
NDD vs Result Stats



Test Results (Upper Limit = 7.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.7889	5.8418	0.0529
171	1e+12	NDD	5.568	5.6283	0.0603
269	1e+12	NDD	5.6777	5.6676	-0.0101
337	1e+12	NDD	5.9886	5.9523	-0.0363
357	5e+12	NDD	5.5803	5.6128	0.0325
361	5e+12	NDD	5.7116	5.6842	-0.0274
373	5e+12	NDD	5.6253	5.612	-0.0133
412	5e+12	NDD	6.5269	6.483	-0.0439
470	1e+13	NDD	6.2213	6.3076	0.0863
498	1e+13	NDD	6.4022	6.413	0.0108
503	1e+13	NDD	5.7727	5.8357	0.063
540	1e+13	NDD	5.6019	5.6367	0.0348
553	0	CORRELATION	5.5746	5.6221	0.0475
586	0	CORRELATION	5.7225	5.7536	0.0311
634	0	CORRELATION	5.7123	5.7152	0.0029
635	0	CORRELATION	5.8405	5.857	0.0165

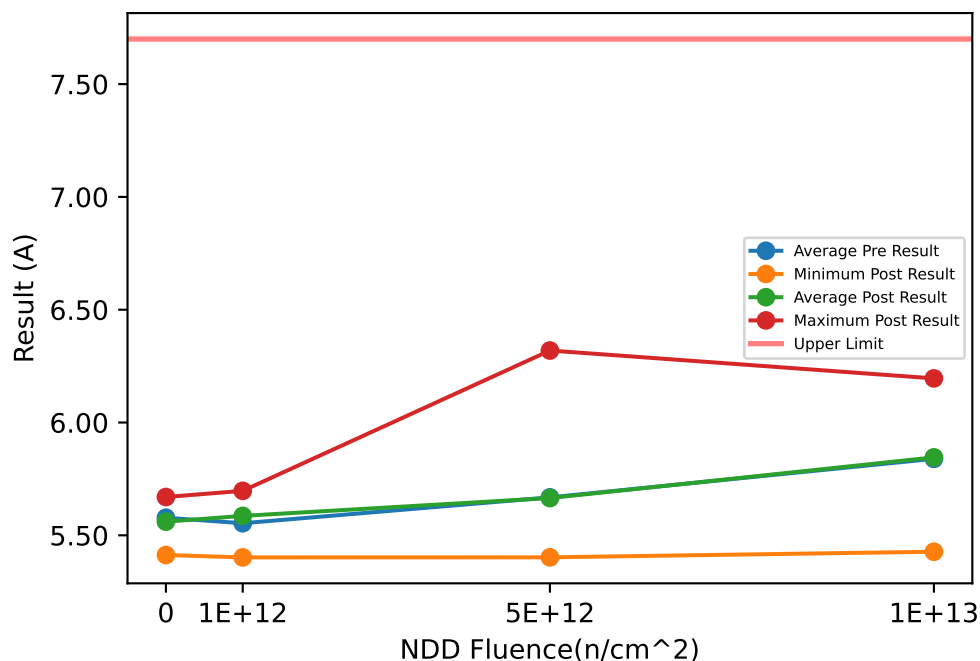
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.5746	5.7125	5.8405	0.10878	5.6221	5.737	5.857	0.097216	0.0029	0.0245	0.0475	0.019176
1e+12	5.568	5.7558	5.9886	0.1795	5.6283	5.7725	5.9523	0.15158	-0.0363	0.0167	0.0603	0.047394
5e+12	5.5803	5.861	6.5269	0.44725	5.612	5.848	6.483	0.42468	-0.0439	-0.013025	0.0325	0.032825
1e+13	5.6019	5.9995	6.4022	0.37456	5.6367	6.0483	6.413	0.37187	0.0108	0.048725	0.0863	0.032903

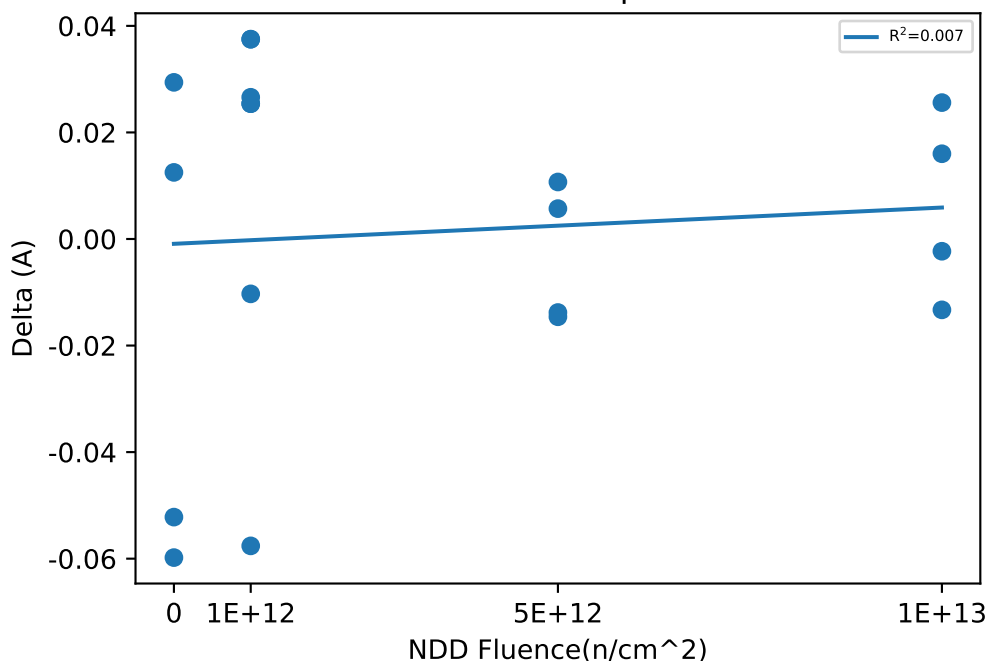
NDD vs Result Stats



Test Results (Upper Limit = 7.7 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.6014	5.6389	0.0375
171	1e+12	NDD	5.3755	5.4021	0.0266
269	1e+12	NDD	5.4823	5.472	-0.0103
337	1e+12	NDD	5.7547	5.6971	-0.0576
357	5e+12	NDD	5.3917	5.4024	0.0107
361	5e+12	NDD	5.5186	5.5243	0.0057
373	5e+12	NDD	5.4296	5.415	-0.0146
412	5e+12	NDD	6.3329	6.3191	-0.0138
470	1e+13	NDD	6.1228	6.1205	-0.0023
498	1e+13	NDD	6.1796	6.1956	0.016
503	1e+13	NDD	5.6521	5.6388	-0.0133
540	1e+13	NDD	5.4016	5.4272	0.0256
553	0	CORRELATION	5.3832	5.4126	0.0294
586	0	CORRELATION	5.6057	5.5535	-0.0522
634	0	CORRELATION	5.5938	5.6063	0.0125
635	0	CORRELATION	5.7296	5.6698	-0.0598

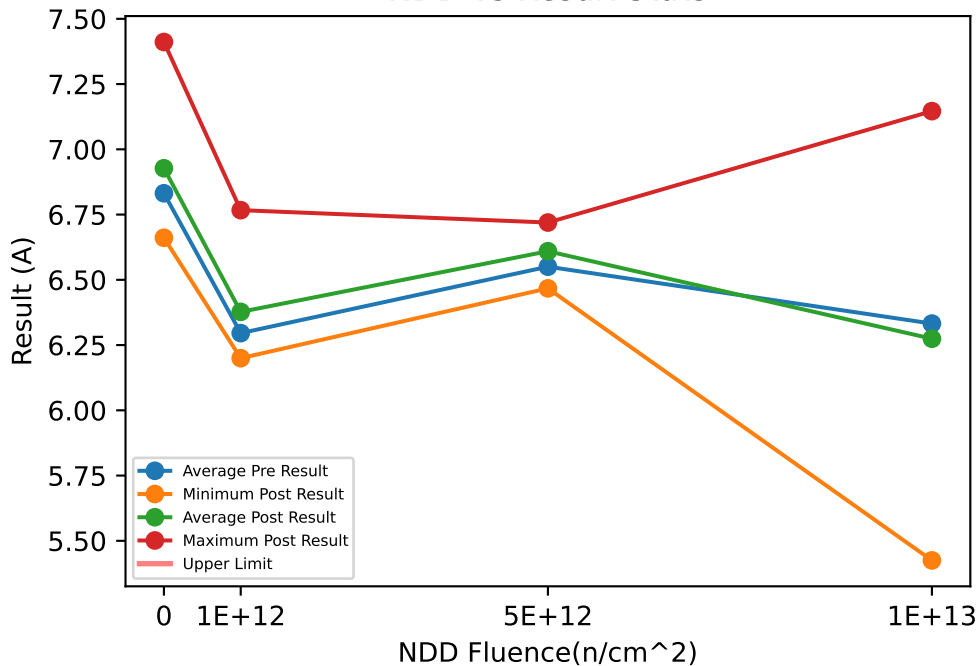
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.3832	5.5781	5.7296	0.1437	5.4126	5.5606	5.6698	0.1095	-0.0598	-0.017525	0.0294	0.045067
1e+12	5.3755	5.5535	5.7547	0.16282	5.4021	5.5525	5.6971	0.13841	-0.0576	-0.00095	0.0375	0.04295
5e+12	5.3917	5.6682	6.3329	0.44631	5.4024	5.6652	6.3191	0.43936	-0.0146	-0.003	0.0107	0.013097
1e+13	5.4016	5.839	6.1796	0.37541	5.4272	5.8455	6.1956	0.37233	-0.0133	0.0065	0.0256	0.017555

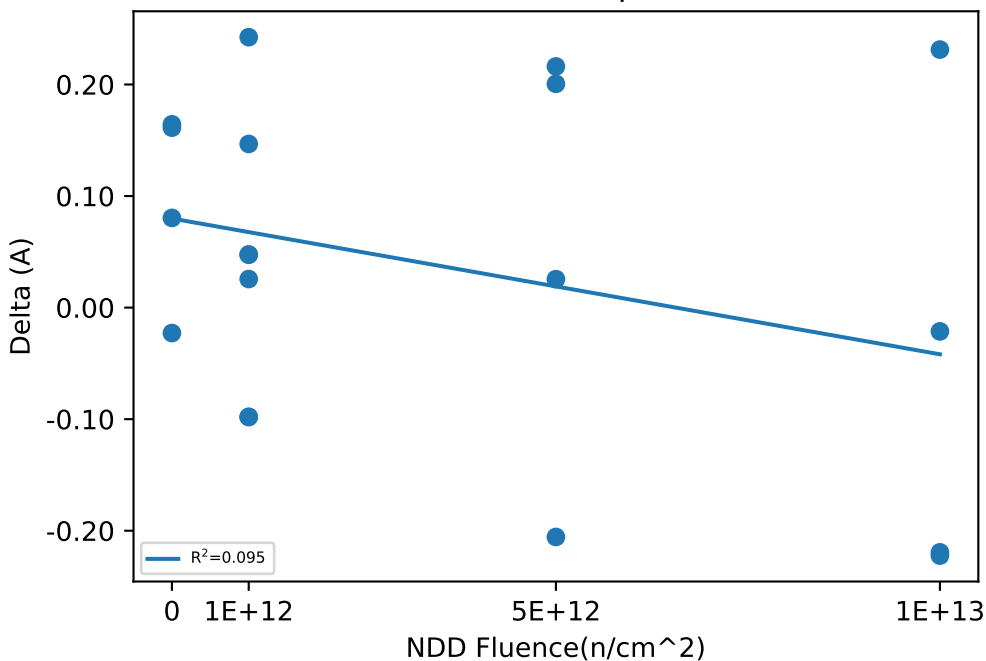
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.3812	6.2832	-0.098
171	1e+12	NDD	5.9573	6.1997	0.2424
269	1e+12	NDD	6.1033	6.25	0.1467
337	1e+12	NDD	6.7413	6.7669	0.0256
357	5e+12	NDD	6.694	6.7195	0.0255
361	5e+12	NDD	6.6729	6.4673	-0.2056
373	5e+12	NDD	6.4304	6.631	0.2006
412	5e+12	NDD	6.404	6.6202	0.2162
470	1e+13	NDD	7.3686	7.1463	-0.2223
498	1e+13	NDD	6.5573	6.3379	-0.2194
503	1e+13	NDD	6.2098	6.1885	-0.0213
540	1e+13	NDD	5.1937	5.425	0.2313
553	0	CORRELATION	6.6839	6.6611	-0.0228
586	0	CORRELATION	7.2469	7.4112	0.1643
634	0	CORRELATION	6.739	6.8194	0.0804
635	0	CORRELATION	6.6566	6.8179	0.1613

NDD vs Post - Pre Exposure Delta

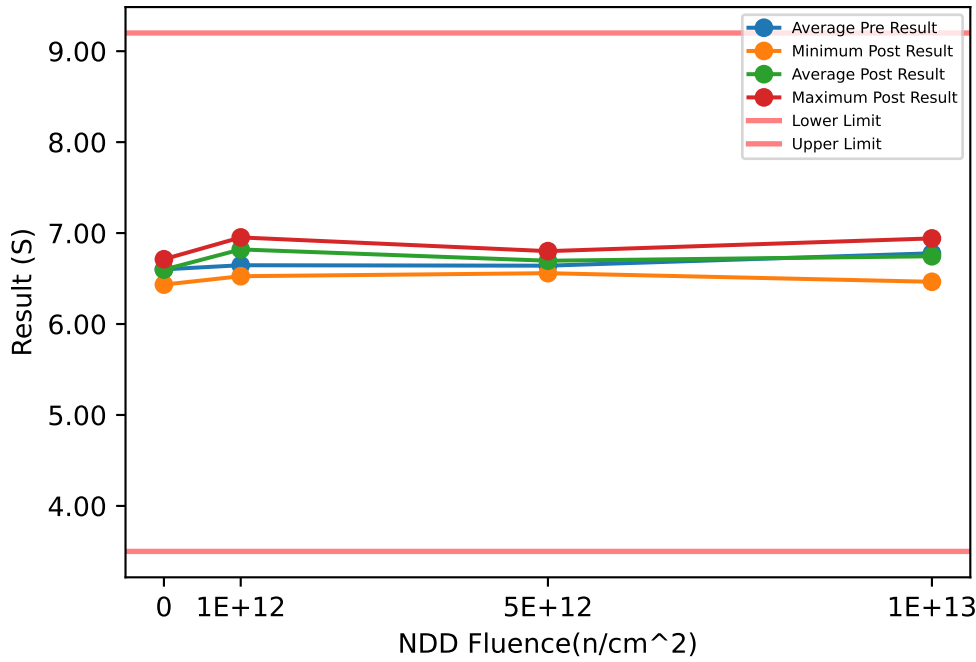


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.6566	6.8316	7.2469	0.27898	6.6611	6.9274	7.4112	0.33097	-0.0228	0.0958	0.1643	0.088101
1e+12	5.9573	6.2958	6.7413	0.34516	6.1997	6.375	6.7669	0.26355	-0.098	0.079175	0.2424	0.14772
5e+12	6.404	6.5503	6.694	0.15434	6.4673	6.6095	6.7195	0.10472	-0.2056	0.059175	0.2162	0.19655
1e+13	5.1937	6.3323	7.3686	0.9011	5.425	6.2744	7.1463	0.70548	-0.2223	-0.057925	0.2313	0.21454

Device Test: 20.58 GMPS|STATIC/SW/5////@EA_GMPS_6A_HTSSOP

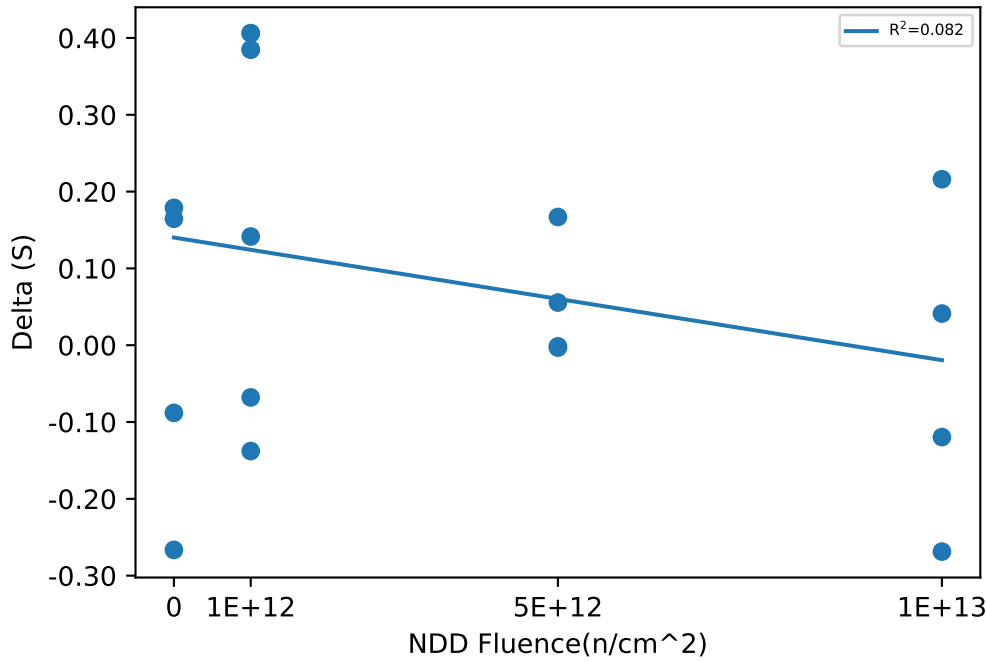
NDD vs Result Stats



Test Results (Lower Limit = 3.5, Upper Limit = 9.2 (S))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.5461	6.931	0.3849
171	1e+12	NDD	6.3843	6.5258	0.1415
269	1e+12	NDD	6.6149	6.5469	-0.068
337	1e+12	NDD	7.0404	6.9026	-0.1378
357	5e+12	NDD	6.664	6.6625	-0.0015
361	5e+12	NDD	6.3921	6.559	0.1669
373	5e+12	NDD	6.7643	6.7612	-0.0031
412	5e+12	NDD	6.7459	6.8014	0.0555
470	1e+13	NDD	6.9002	6.9414	0.0412
498	1e+13	NDD	7.0777	6.809	-0.2687
503	1e+13	NDD	6.5494	6.7655	0.2161
540	1e+13	NDD	6.584	6.4644	-0.1196
553	0	CORRELATION	6.8253	6.5588	-0.2665
586	0	CORRELATION	6.5215	6.4334	-0.0881
634	0	CORRELATION	6.5099	6.6887	0.1788
635	0	CORRELATION	6.5476	6.7122	0.1646

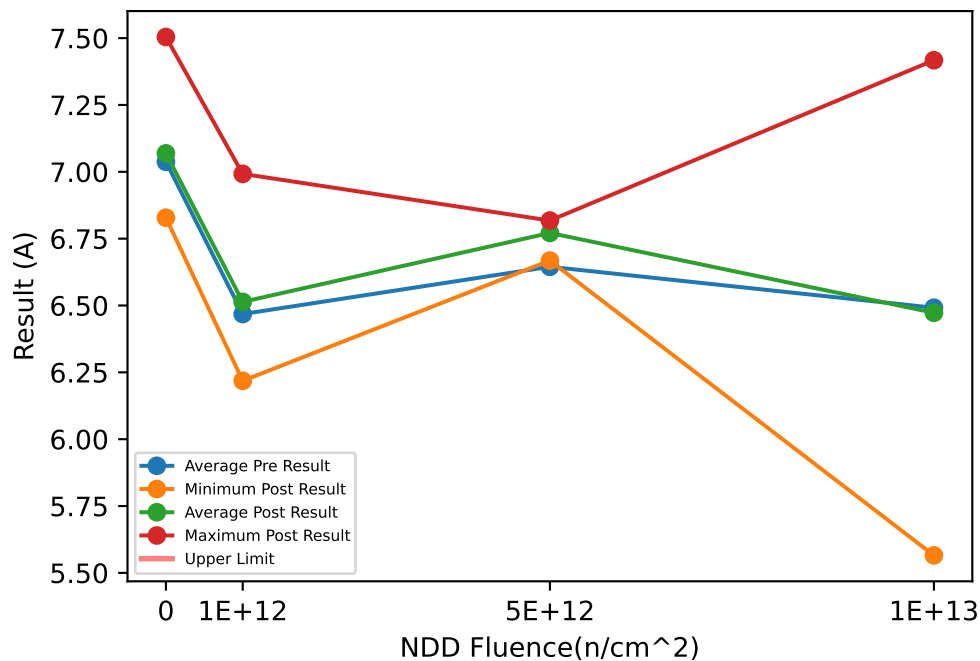
NDD vs Post - Pre Exposure Delta



Test Statistics (S)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.5099	6.6011	6.8253	0.15031	6.4334	6.5983	6.7122	0.12897	-0.2665	-0.0028	0.1788	0.21433
1e+12	6.3843	6.6464	7.0404	0.27987	6.5258	6.7266	6.931	0.22013	-0.1378	0.08015	0.3849	0.23529
5e+12	6.3921	6.6416	6.7643	0.17194	6.559	6.696	6.8014	0.1084	-0.0031	0.05445	0.1669	0.079767
1e+13	6.5494	6.7778	7.0777	0.25472	6.4644	6.7451	6.9414	0.20152	-0.2687	-0.03275	0.2161	0.20865

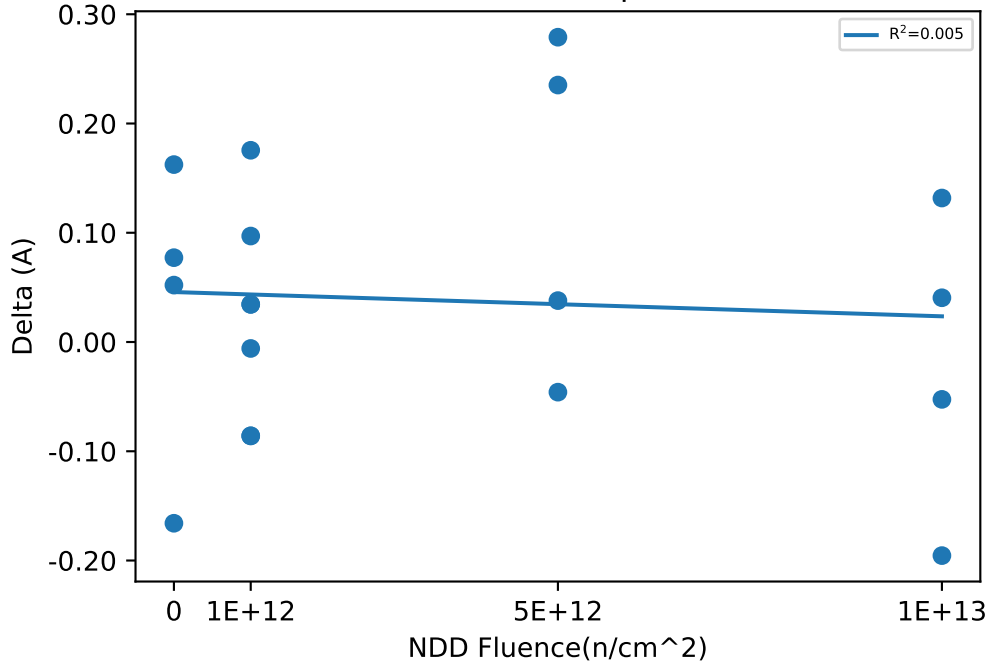
NDD vs Result Stats



Test Results (No Limits Specified (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.5195	6.4336	-0.0859
171	1e+12	NDD	6.1213	6.2183	0.097
269	1e+12	NDD	6.4148	6.4089	-0.0059
337	1e+12	NDD	6.8167	6.9922	0.1755
357	5e+12	NDD	6.7798	6.8177	0.0379
361	5e+12	NDD	6.7139	6.668	-0.0459
373	5e+12	NDD	6.5586	6.7938	0.2352
412	5e+12	NDD	6.5269	6.8059	0.279
470	1e+13	NDD	7.4698	7.4173	-0.0525
498	1e+13	NDD	6.7383	6.5428	-0.1955
503	1e+13	NDD	6.2336	6.3654	0.1318
540	1e+13	NDD	5.5249	5.5654	0.0405
553	0	CORRELATION	6.7762	6.8283	0.0521
586	0	CORRELATION	7.6701	7.5042	-0.1659
634	0	CORRELATION	6.8917	6.9689	0.0772
635	0	CORRELATION	6.8122	6.9746	0.1624

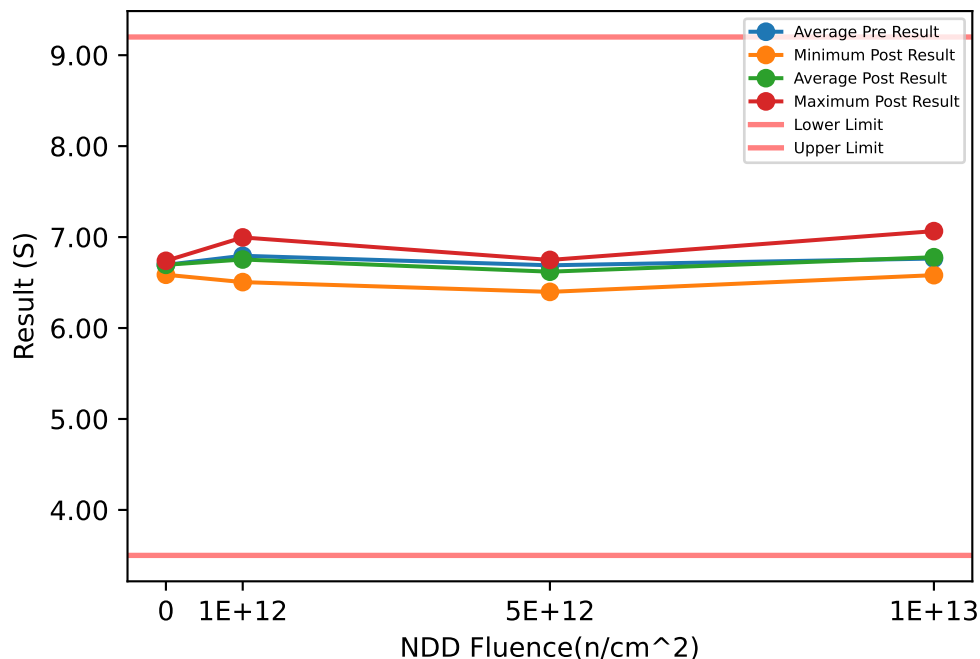
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.7762	7.0375	7.6701	0.42445	6.8283	7.069	7.5042	0.29792	-0.1659	0.03145	0.1624	0.13978
1e+12	6.1213	6.4681	6.8167	0.2871	6.2183	6.5133	6.9922	0.33348	-0.0859	0.045175	0.1755	0.11469
5e+12	6.5269	6.6448	6.7798	0.12156	6.668	6.7713	6.8177	0.069587	-0.0459	0.12655	0.279	0.15561
1e+13	5.5249	6.4916	7.4698	0.82033	5.5654	6.4727	7.4173	0.7598	-0.1955	-0.018925	0.1318	0.13971

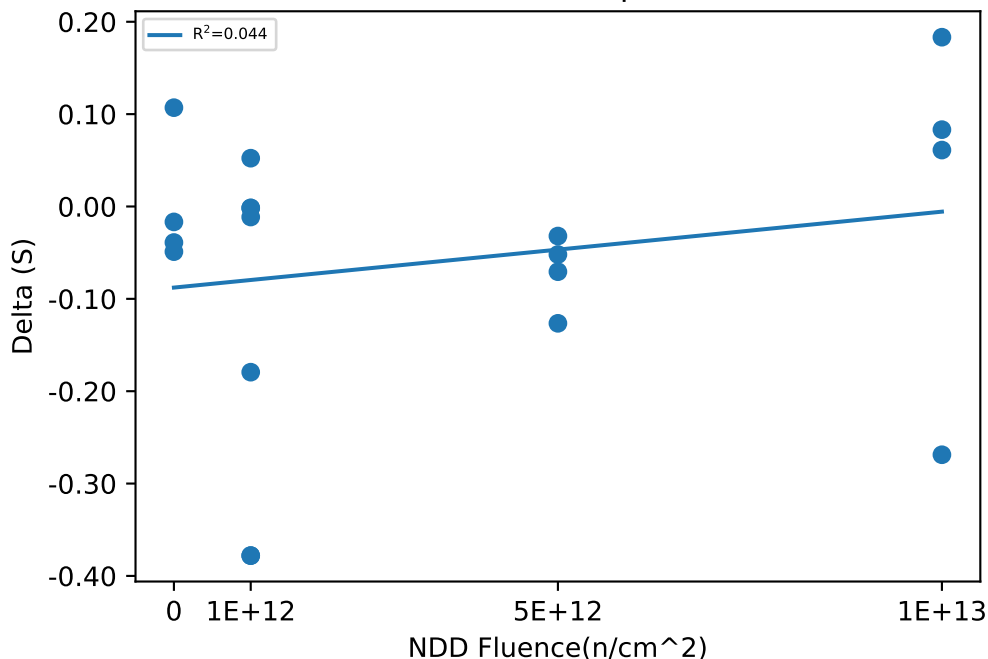
NDD vs Result Stats



Test Results (Lower Limit = 3.5, Upper Limit = 9.2 (S))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	6.9978	6.6198	-0.378
171	1e+12	NDD	6.5829	6.5715	-0.0114
269	1e+12	NDD	6.6843	6.5049	-0.1794
337	1e+12	NDD	6.9136	6.9659	0.0523
357	5e+12	NDD	6.704	6.6334	-0.0706
361	5e+12	NDD	6.5239	6.3974	-0.1265
373	5e+12	NDD	6.7304	6.6984	-0.032
412	5e+12	NDD	6.8007	6.7487	-0.052
470	1e+13	NDD	6.7001	6.8834	0.1833
498	1e+13	NDD	7.3341	7.0653	-0.2688
503	1e+13	NDD	6.4981	6.5813	0.0832
540	1e+13	NDD	6.5232	6.5843	0.0611
553	0	CORRELATION	6.7533	6.7366	-0.0167
586	0	CORRELATION	6.6249	6.5859	-0.039
634	0	CORRELATION	6.6117	6.7187	0.107
635	0	CORRELATION	6.7878	6.7389	-0.0489

NDD vs Post - Pre Exposure Delta

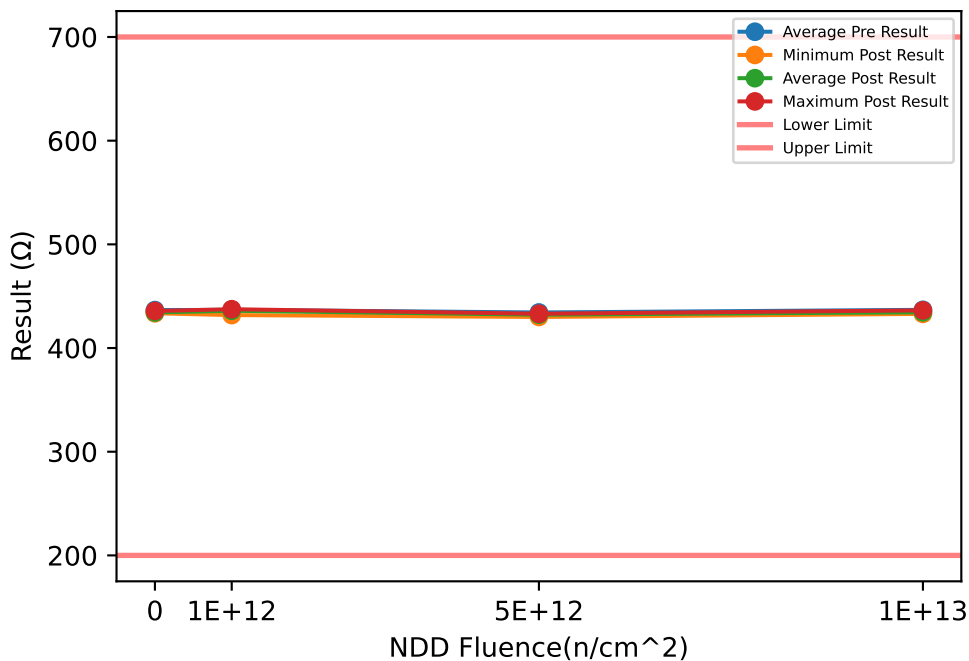


Test Statistics (S)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	6.6117	6.6944	6.7878	0.089186	6.5859	6.695	6.7389	0.073308	-0.0489	0.0006	0.107	0.0722
1e+12	6.5829	6.7946	6.9978	0.19359	6.5049	6.6655	6.9659	0.20572	-0.378	-0.12912	0.0523	0.19256
5e+12	6.5239	6.6898	6.8007	0.11786	6.3974	6.6195	6.7487	0.15539	-0.1265	-0.070275	-0.032	0.040662
1e+13	6.4981	6.7639	7.3341	0.39063	6.5813	6.7786	7.0653	0.23795	-0.2688	0.0147	0.1833	0.19634

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

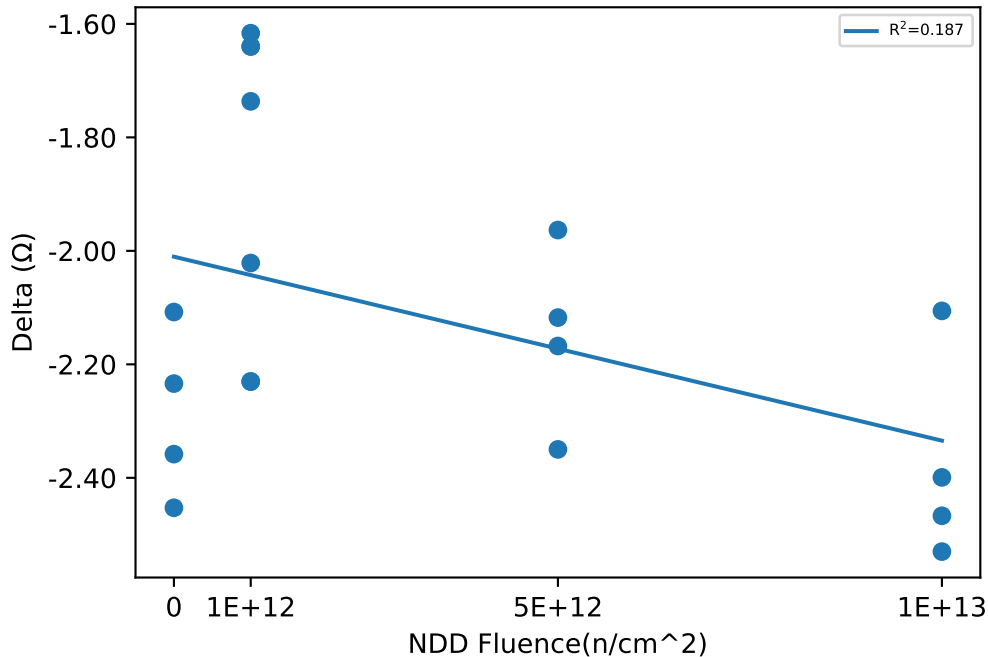
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	439.08	436.85	-2.2303
171	1e+12	NDD	433.81	431.78	-2.0214
269	1e+12	NDD	439	437.38	-1.6164
337	1e+12	NDD	435.45	433.71	-1.7365
357	5e+12	NDD	435	432.88	-2.1176
361	5e+12	NDD	432.32	429.97	-2.3499
373	5e+12	NDD	435.03	433.06	-1.9633
412	5e+12	NDD	434.9	432.73	-2.1677
470	1e+13	NDD	438.73	436.33	-2.3992
498	1e+13	NDD	435.46	432.93	-2.53
503	1e+13	NDD	435.15	433.04	-2.1058
540	1e+13	NDD	438.07	435.61	-2.4669
553	0	CORRELATION	435.94	433.58	-2.3582
586	0	CORRELATION	435.97	433.52	-2.4528
634	0	CORRELATION	436.51	434.41	-2.1078
635	0	CORRELATION	437.96	435.73	-2.2339

NDD vs Post - Pre Exposure Delta

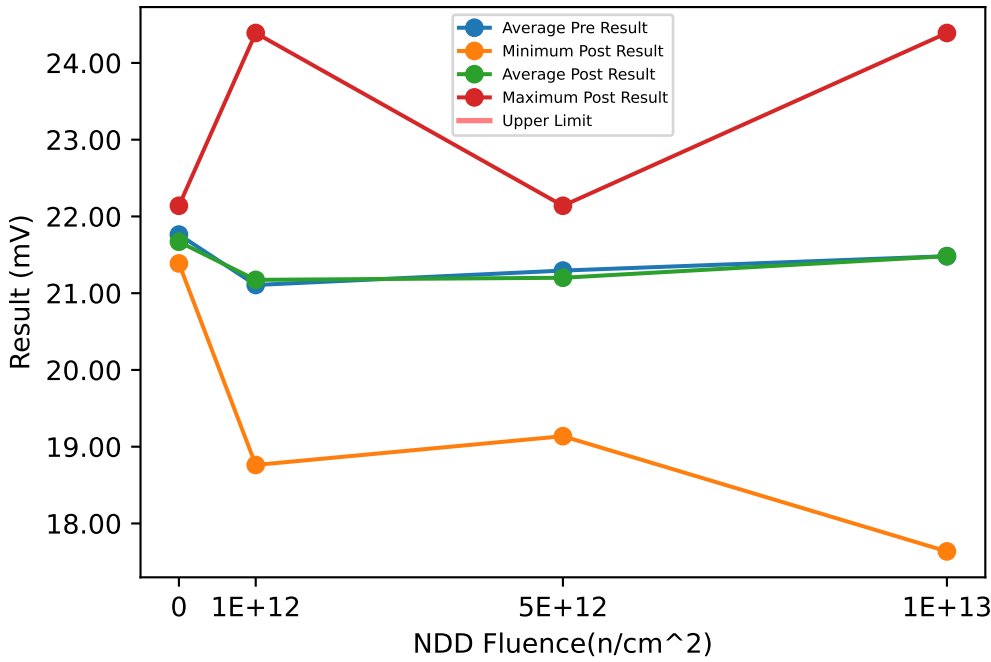


Test Statistics (Ω)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	435.94	436.6	437.96	0.94978	433.52	434.31	435.73	1.0313	-2.4528	-2.2882	-2.1078	0.14998
1e+12	433.81	436.83	439.08	2.6349	431.78	434.93	437.38	2.6509	-2.2303	-1.9012	-1.6164	0.27748
5e+12	432.32	434.31	435.03	1.3294	429.97	432.16	433.06	1.4682	-2.3499	-2.1496	-1.9633	0.15935
1e+13	435.15	436.85	438.73	1.8153	432.93	434.48	436.33	1.7501	-2.53	-2.3755	-2.1058	0.18755

Device Test: 22.11 LEVEL|STATIC/SS_TR/5////@V_SS_START

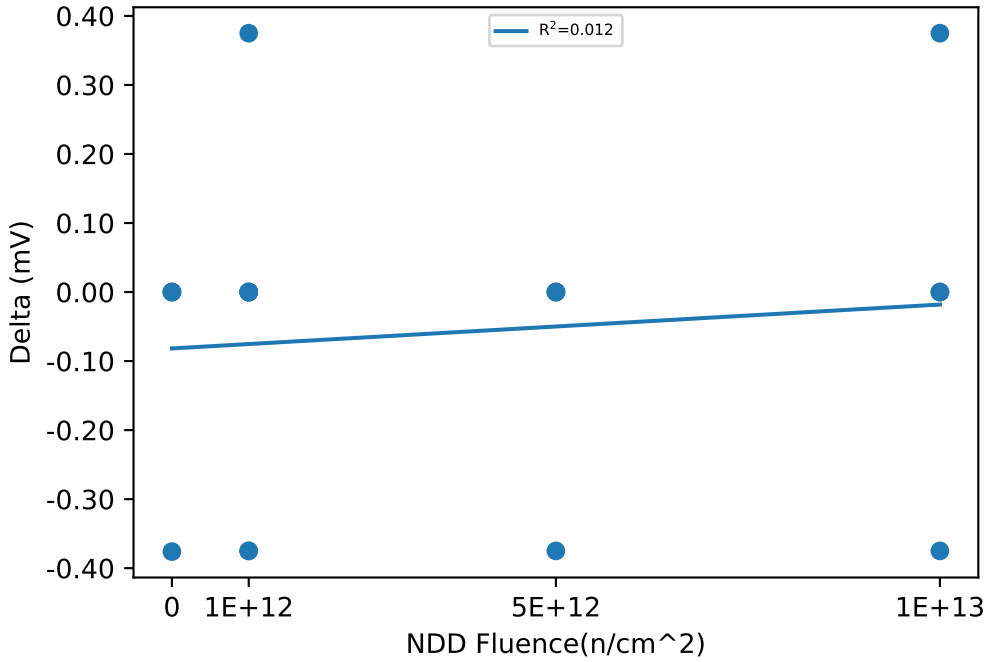
NDD vs Result Stats



Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	21.388	21.388	0
171	1e+12	NDD	19.137	18.762	-0.375
269	1e+12	NDD	24.015	24.39	0.375
337	1e+12	NDD	19.887	19.512	-0.375
357	5e+12	NDD	22.139	21.764	-0.375
361	5e+12	NDD	22.139	22.139	0
373	5e+12	NDD	21.764	21.764	0
412	5e+12	NDD	19.137	19.137	0
470	1e+13	NDD	20.638	20.638	0
498	1e+13	NDD	23.64	23.265	-0.375
503	1e+13	NDD	17.636	17.636	0
540	1e+13	NDD	24.015	24.39	0.375
553	0	CORRELATION	21.388	21.388	0
586	0	CORRELATION	22.139	22.139	0
634	0	CORRELATION	21.764	21.764	0
635	0	CORRELATION	21.764	21.388	-0.376

NDD vs Post - Pre Exposure Delta

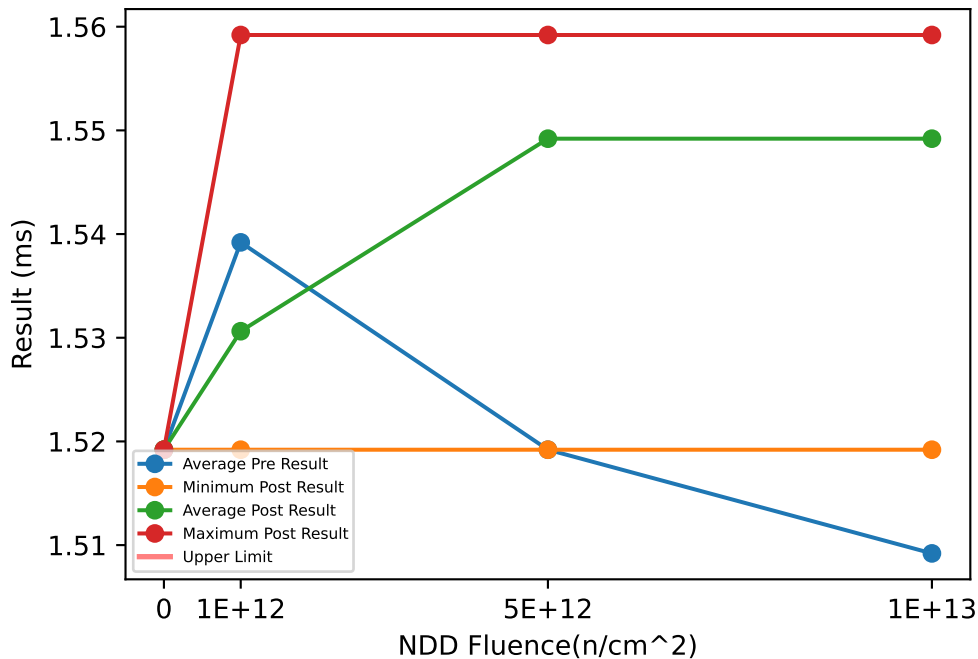


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	21.388	21.764	22.139	0.30659	21.388	21.67	22.139	0.35956	-0.376	-0.094	0	0.188
1e+12	19.137	21.107	24.015	2.1529	18.762	21.013	24.39	2.5076	-0.375	-0.09375	0.375	0.35904
5e+12	19.137	21.295	22.139	1.4493	19.137	21.201	22.139	1.3873	-0.375	-0.09375	0	0.1875
1e+13	17.636	21.482	24.015	2.9764	17.636	21.482	24.39	3.0077	-0.375	0	0.375	0.30619

Device Test: 22.12 TIMING|STARTUP/SS_TR/5////@T_SS_5P6NF

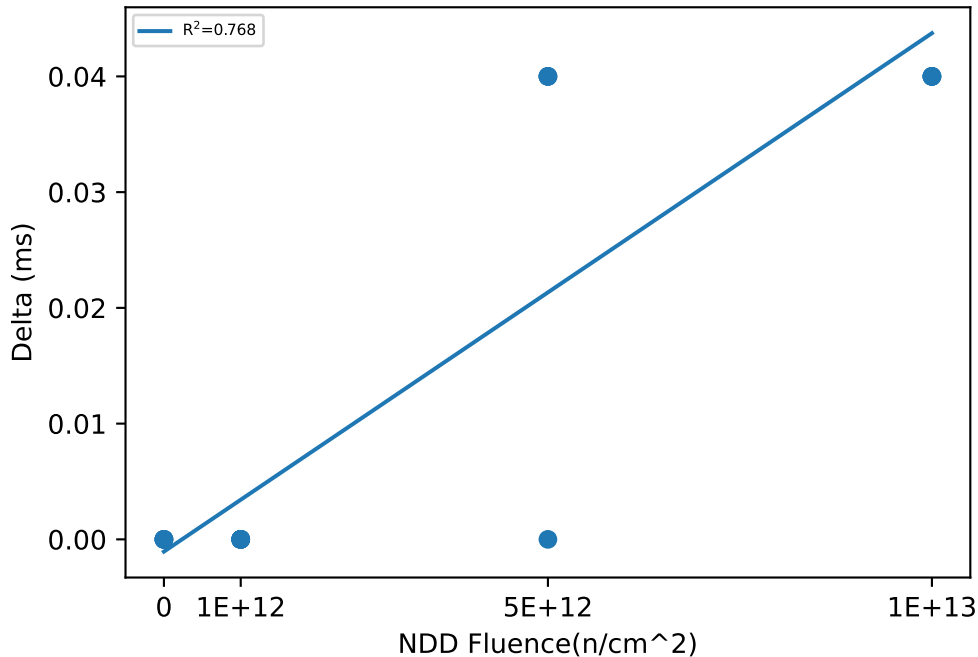
NDD vs Result Stats



Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.5192	1.5192	0
171	1e+12	NDD	1.5592	1.5592	0
269	1e+12	NDD	1.5592	1.5592	0
337	1e+12	NDD	1.5192	1.5192	0
357	5e+12	NDD	1.5192	1.5592	0.04
361	5e+12	NDD	1.5592	1.5592	0
373	5e+12	NDD	1.5192	1.5592	0.04
412	5e+12	NDD	1.4792	1.5192	0.04
470	1e+13	NDD	1.5192	1.5592	0.04
498	1e+13	NDD	1.5192	1.5592	0.04
503	1e+13	NDD	1.5192	1.5592	0.04
540	1e+13	NDD	1.4792	1.5192	0.04
553	0	CORRELATION	1.5192	1.5192	0
586	0	CORRELATION	1.5192	1.5192	0
634	0	CORRELATION	1.5192	1.5192	0
635	0	CORRELATION	1.5192	1.5192	0

NDD vs Post - Pre Exposure Delta

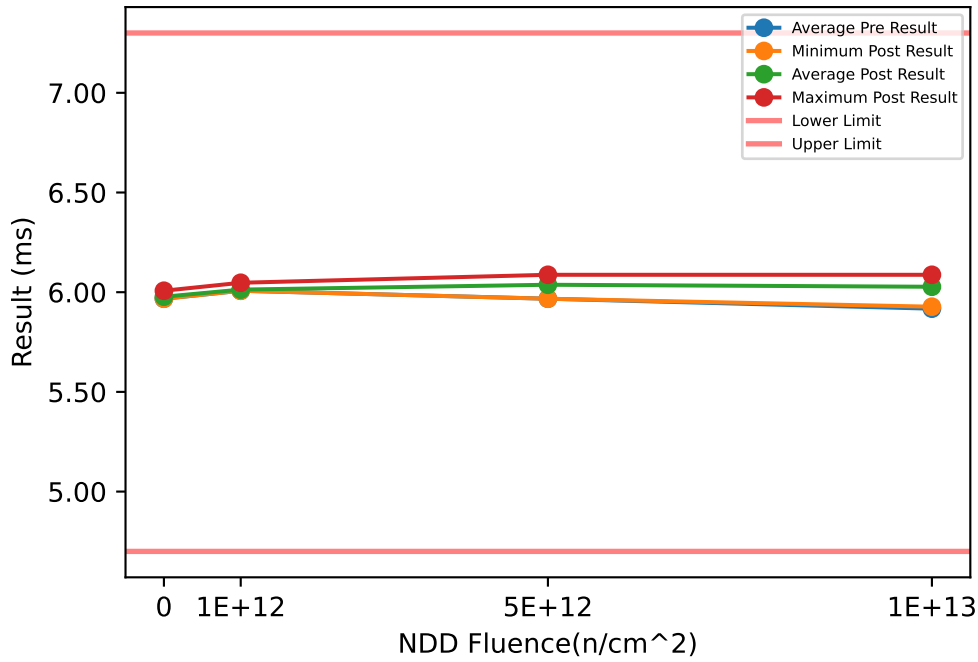


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5192	1.5192	1.5192	0	1.5192	1.5192	1.5192	0	0	0	0	0
1e+12	1.5192	1.5392	1.5592	0.023094	1.5192	1.5392	1.5592	0.023094	0	0	0	0
5e+12	1.4792	1.5192	1.5592	0.03266	1.5192	1.5492	1.5592	0.02	0	0.03	0.04	0.02
1e+13	1.4792	1.5092	1.5192	0.02	1.5192	1.5492	1.5592	0.02	0.04	0.04	0.04	1.1102e-16

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

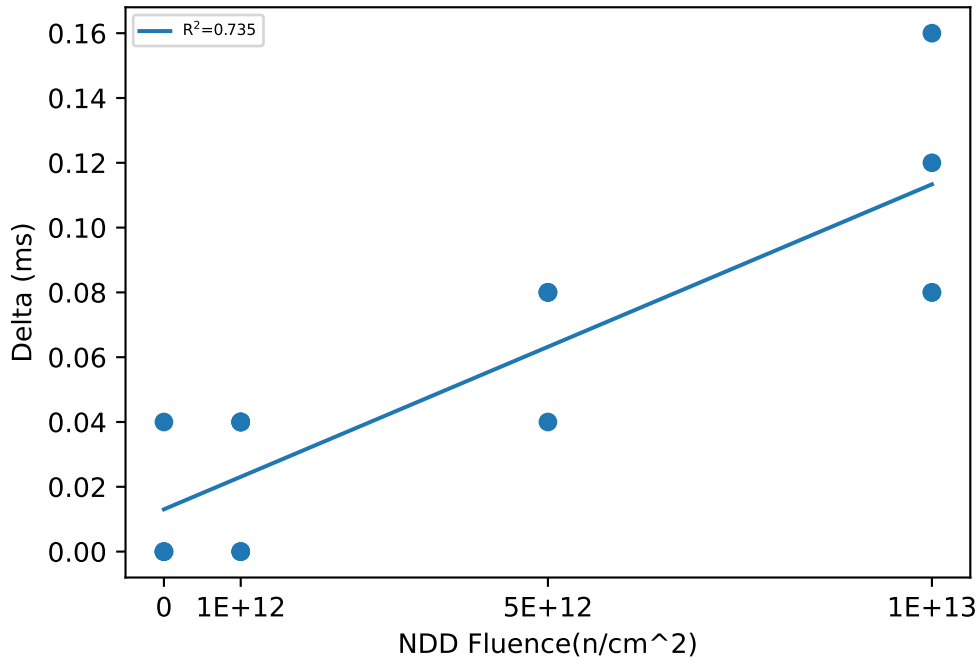
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.9673	6.0073	0.04
171	1e+12	NDD	6.0073	6.0073	0
269	1e+12	NDD	6.0473	6.0473	0
337	1e+12	NDD	6.0073	6.0073	0
357	5e+12	NDD	5.9673	6.0473	0.08
361	5e+12	NDD	6.0073	6.0473	0.04
373	5e+12	NDD	6.0073	6.0873	0.08
412	5e+12	NDD	5.8873	5.9673	0.08
470	1e+13	NDD	5.9273	6.0873	0.16
498	1e+13	NDD	5.9673	6.0473	0.08
503	1e+13	NDD	5.9273	6.0473	0.12
540	1e+13	NDD	5.8473	5.9273	0.08
553	0	CORRELATION	5.9673	5.9673	0
586	0	CORRELATION	6.0073	6.0073	0
634	0	CORRELATION	5.9673	5.9673	0
635	0	CORRELATION	5.9273	5.9673	0.04

NDD vs Post - Pre Exposure Delta

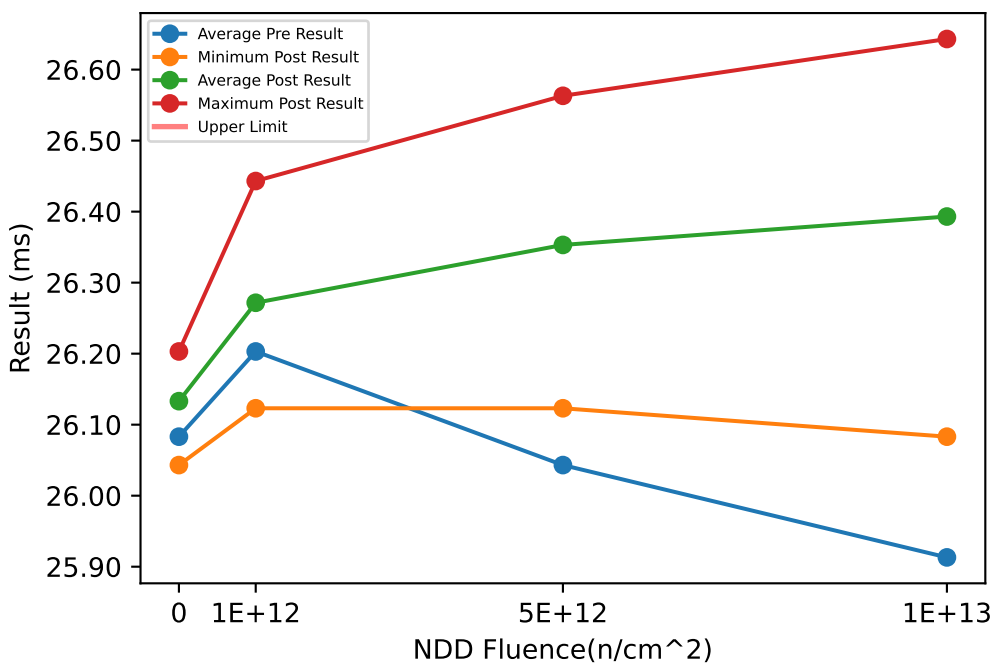


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.9273	5.9673	6.0073	0.03266	5.9673	5.9773	6.0073	0.02	0	0.01	0.04	0.02
1e+12	5.9673	6.0073	6.0473	0.03266	6.0073	6.0173	6.0473	0.02	0	0.01	0.04	0.02
5e+12	5.8873	5.9673	6.0073	0.056569	5.9673	6.0373	6.0873	0.050332	0.04	0.07	0.08	0.02
1e+13	5.8473	5.9173	5.9673	0.050332	5.9273	6.0273	6.0873	0.069282	0.08	0.11	0.16	0.038297

Device Test: 22.14 TIMING|STARTUP/SS_TR/5////@T_SS_100NF

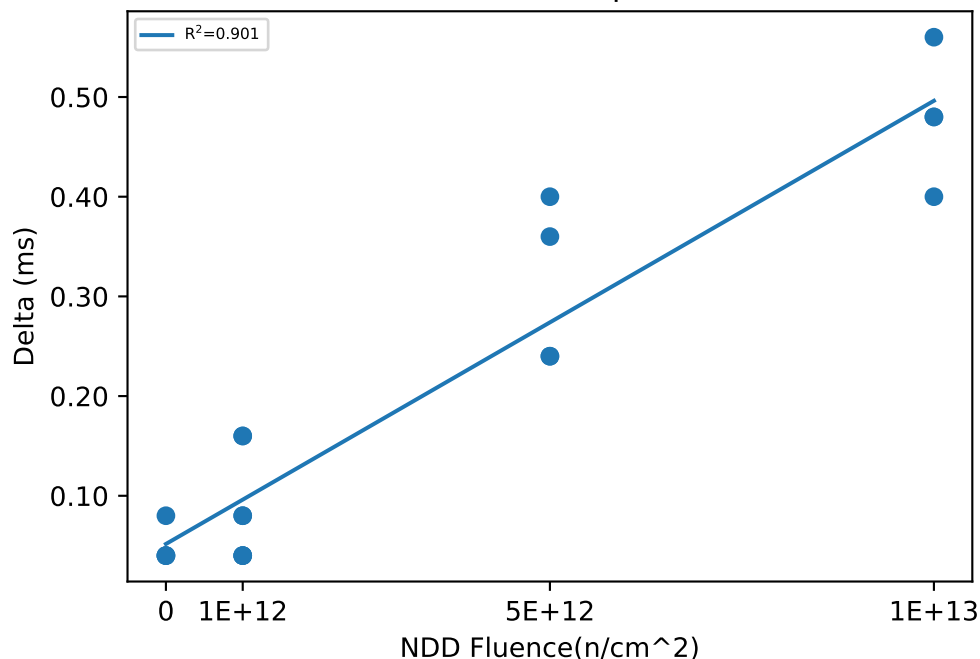
NDD vs Result Stats



Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	26.163	26.243	0.08
171	1e+12	NDD	26.083	26.123	0.04
269	1e+12	NDD	26.283	26.443	0.16
337	1e+12	NDD	26.283	26.443	0.16
357	5e+12	NDD	26.003	26.403	0.4
361	5e+12	NDD	26.083	26.323	0.24
373	5e+12	NDD	26.203	26.563	0.36
412	5e+12	NDD	25.883	26.123	0.24
470	1e+13	NDD	26.083	26.643	0.56
498	1e+13	NDD	25.883	26.363	0.48
503	1e+13	NDD	26.003	26.483	0.48
540	1e+13	NDD	25.683	26.083	0.4
553	0	CORRELATION	26.083	26.123	0.04
586	0	CORRELATION	26.003	26.043	0.04
634	0	CORRELATION	26.123	26.163	0.04
635	0	CORRELATION	26.123	26.203	0.08

NDD vs Post - Pre Exposure Delta

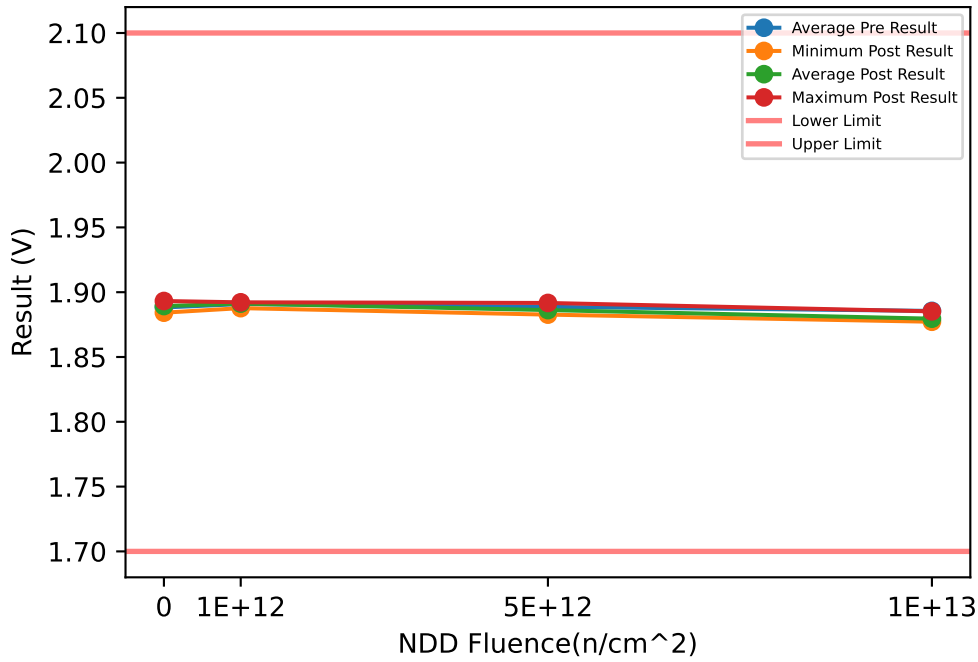


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.003	26.083	26.123	0.056569	26.043	26.133	26.203	0.068313	0.04	0.05	0.08	0.02
1e+12	26.083	26.203	26.283	0.09798	26.123	26.313	26.443	0.1579	0.04	0.11	0.16	0.06
5e+12	25.883	26.043	26.203	0.13466	26.123	26.353	26.563	0.18294	0.24	0.31	0.4	0.082462
1e+13	25.683	25.913	26.083	0.17397	26.083	26.393	26.643	0.23636	0.4	0.48	0.56	0.06532

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

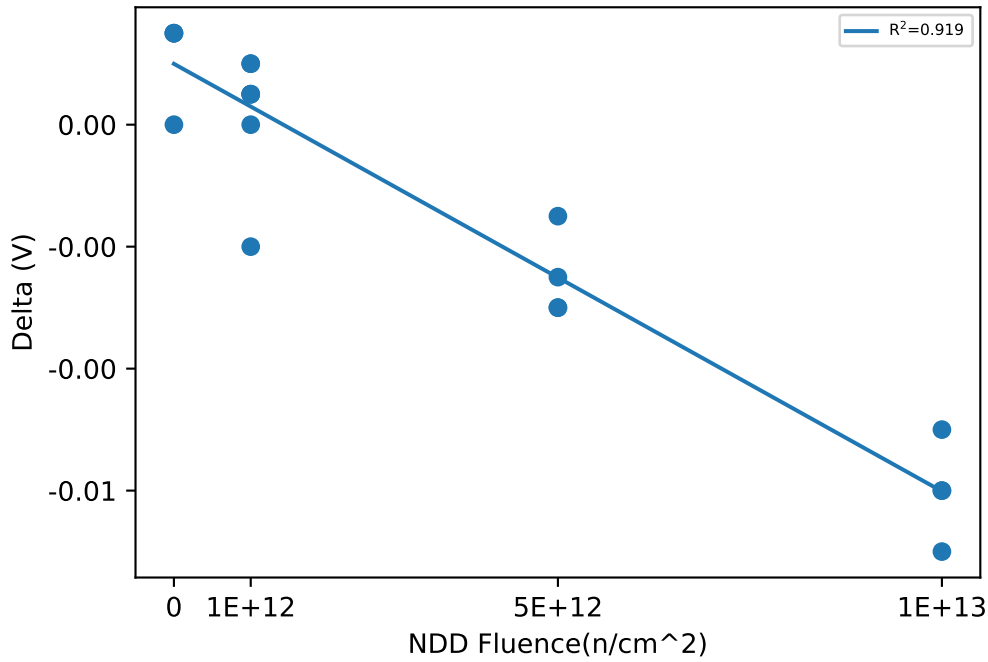
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.8912	1.8922	0.001
171	1e+12	NDD	1.8907	1.8912	0.0005
269	1e+12	NDD	1.8877	1.8877	0
337	1e+12	NDD	1.8937	1.8917	-0.002
357	5e+12	NDD	1.8852	1.8837	-0.0015
361	5e+12	NDD	1.8892	1.8867	-0.0025
373	5e+12	NDD	1.8857	1.8827	-0.003
412	5e+12	NDD	1.8947	1.8917	-0.003
470	1e+13	NDD	1.8847	1.8787	-0.006
498	1e+13	NDD	1.8832	1.8772	-0.006
503	1e+13	NDD	1.8842	1.8772	-0.007
540	1e+13	NDD	1.8902	1.8852	-0.005
553	0	CORRELATION	1.8827	1.8842	0.0015
586	0	CORRELATION	1.8932	1.8932	0
634	0	CORRELATION	1.8907	1.8922	0.0015
635	0	CORRELATION	1.8862	1.8877	0.0015

NDD vs Post - Pre Exposure Delta

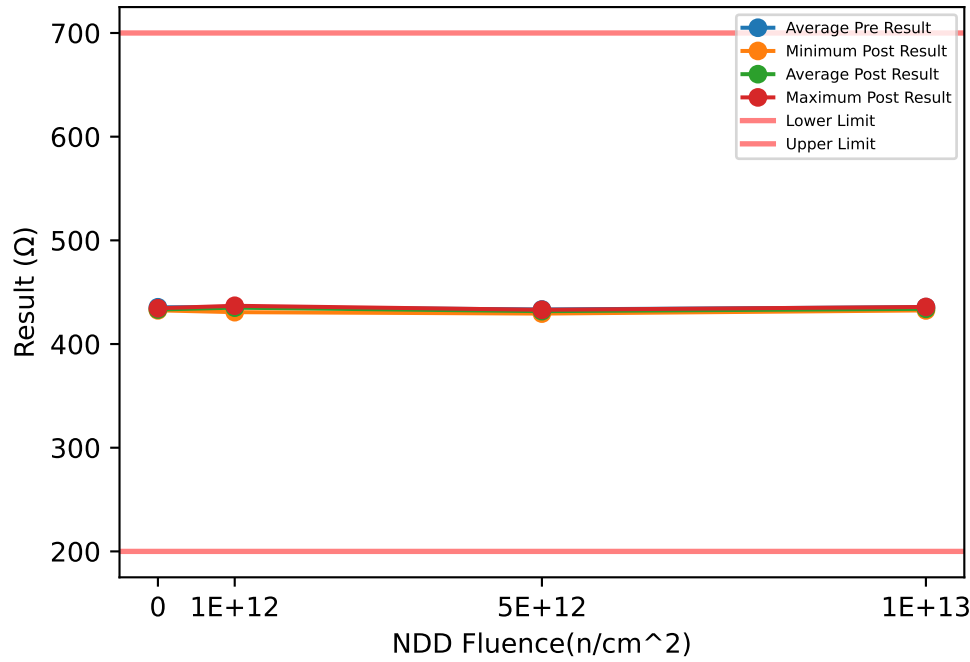


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8827	1.8882	1.8932	0.0046726	1.8842	1.8893	1.8932	0.0041708	0	0.001125	0.0015	0.00075
1e+12	1.8877	1.8908	1.8937	0.0024622	1.8877	1.8907	1.8922	0.0020412	-0.002	-0.000125	0.001	0.001315
5e+12	1.8852	1.8887	1.8947	0.004378	1.8827	1.8862	1.8917	0.0040415	-0.003	-0.0025	-0.0015	0.00070711
1e+13	1.8832	1.8856	1.8902	0.0031458	1.8772	1.8796	1.8852	0.0038161	-0.007	-0.006	-0.005	0.0008165

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

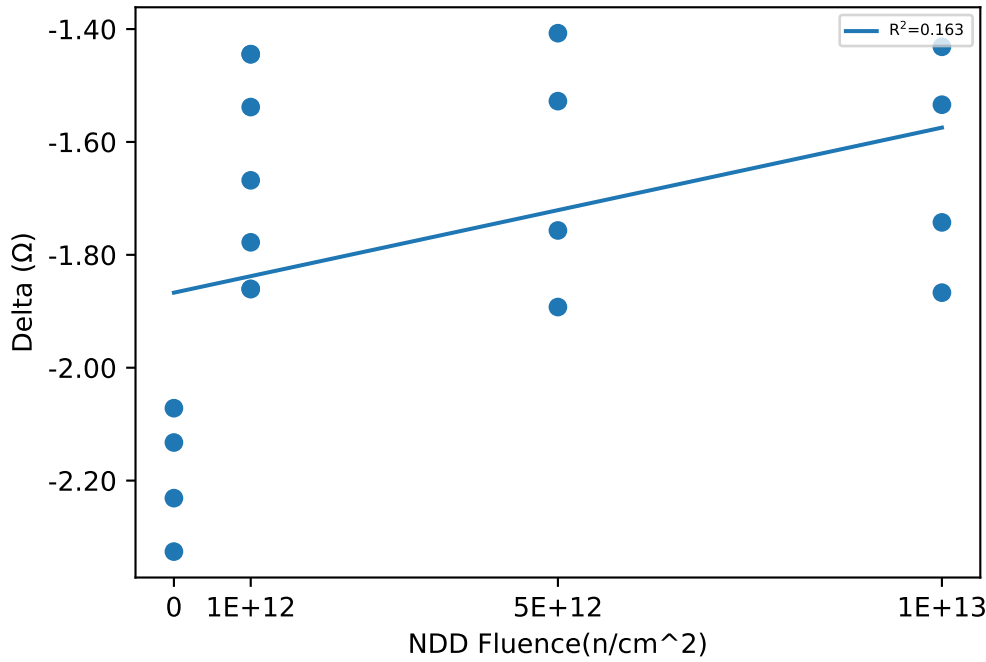
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	438.35	436.49	-1.8605
171	1e+12	NDD	432.51	430.73	-1.7778
269	1e+12	NDD	437.59	436.05	-1.5382
337	1e+12	NDD	433.71	432.04	-1.668
357	5e+12	NDD	434	432.24	-1.7568
361	5e+12	NDD	431.25	429.36	-1.8925
373	5e+12	NDD	434.42	433.02	-1.4073
412	5e+12	NDD	433.73	432.2	-1.5277
470	1e+13	NDD	437.3	435.77	-1.534
498	1e+13	NDD	434.16	432.42	-1.7425
503	1e+13	NDD	434.36	432.93	-1.4314
540	1e+13	NDD	436.57	434.7	-1.867
553	0	CORRELATION	435.13	432.89	-2.2311
586	0	CORRELATION	435.54	433.21	-2.3258
634	0	CORRELATION	434.57	432.5	-2.0717
635	0	CORRELATION	436.64	434.5	-2.1325

NDD vs Post - Pre Exposure Delta

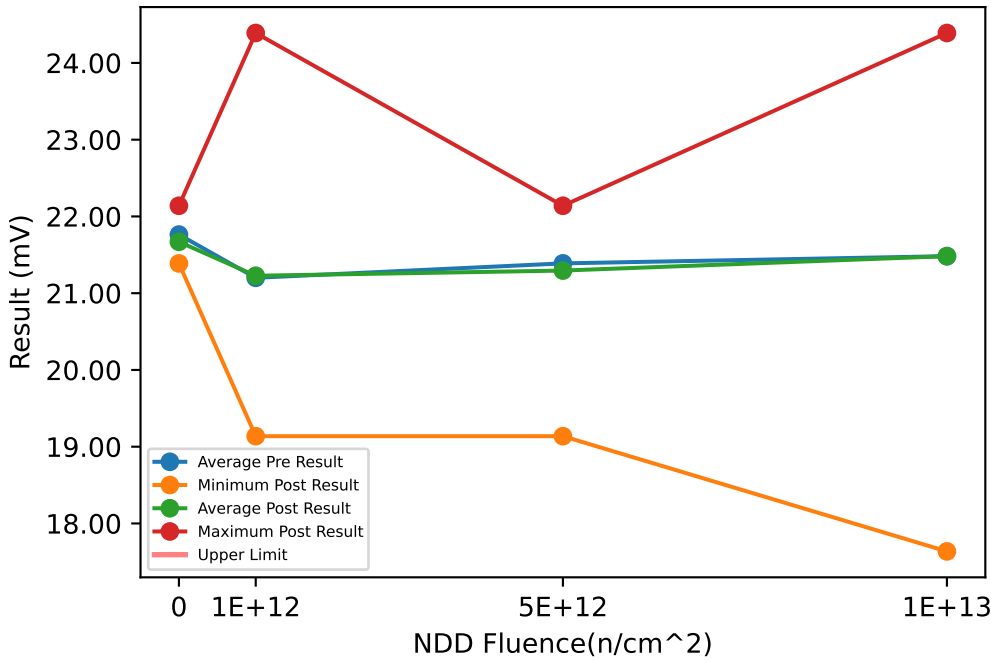


Test Statistics (Ω)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	434.57	435.47	436.64	0.87417	432.5	433.28	434.5	0.86813	-2.3258	-2.1903	-2.0717	0.1117
1e+12	432.51	435.54	438.35	2.8654	430.73	433.83	436.49	2.8754	-1.8605	-1.7111	-1.5382	0.13967
5e+12	431.25	433.35	434.42	1.4269	429.36	431.7	433.02	1.6065	-1.8925	-1.6461	-1.4073	0.2191
1e+13	434.16	435.6	437.3	1.5718	432.42	433.95	435.77	1.5523	-1.867	-1.6437	-1.4314	0.19726

Device Test: 22.18 LEVEL|STATIC/SS_TR/12////@V_SS_START

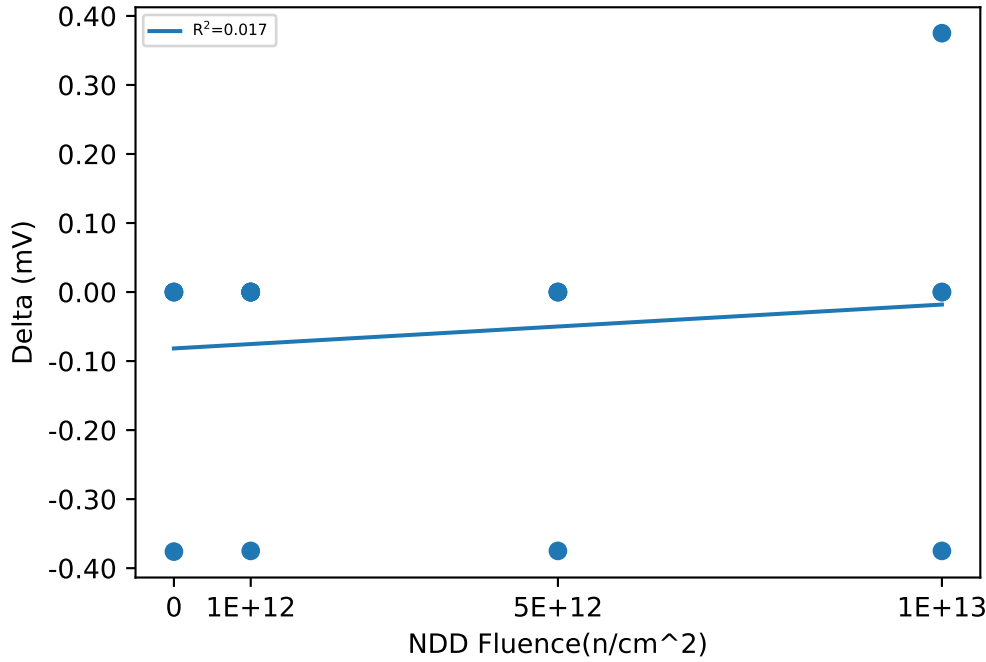
NDD vs Result Stats



Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	21.388	21.388	0
171	1e+12	NDD	19.137	19.137	0
269	1e+12	NDD	24.39	24.39	0
337	1e+12	NDD	19.887	19.512	-0.375
357	5e+12	NDD	22.139	21.764	-0.375
361	5e+12	NDD	22.139	22.139	0
373	5e+12	NDD	22.139	22.139	0
412	5e+12	NDD	19.137	19.137	0
470	1e+13	NDD	20.638	20.638	0
498	1e+13	NDD	23.64	23.265	-0.375
503	1e+13	NDD	17.636	17.636	0
540	1e+13	NDD	24.015	24.39	0.375
553	0	CORRELATION	21.388	21.388	0
586	0	CORRELATION	22.139	22.139	0
634	0	CORRELATION	21.764	21.764	0
635	0	CORRELATION	21.764	21.388	-0.376

NDD vs Post - Pre Exposure Delta

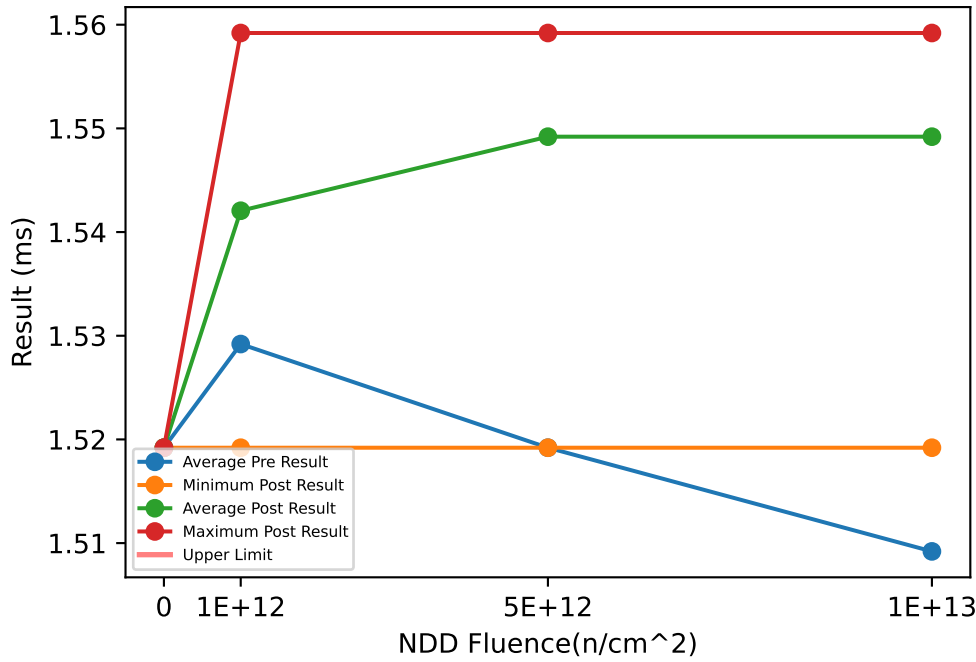


Test Statistics (mV)

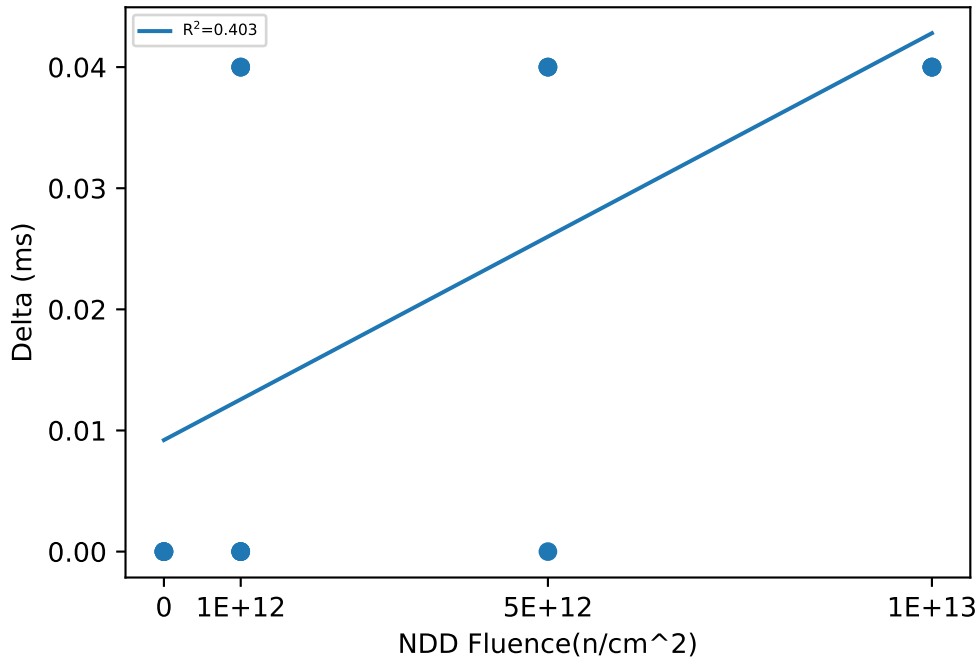
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	21.388	21.764	22.139	0.30659	21.388	21.67	22.139	0.35956	-0.376	-0.094	0	0.188
1e+12	19.137	21.201	24.39	2.3232	19.137	21.107	24.39	2.4001	-0.375	-0.09375	0	0.1875
5e+12	19.137	21.389	22.139	1.501	19.137	21.295	22.139	1.4493	-0.375	-0.09375	0	0.1875
1e+13	17.636	21.482	24.015	2.9764	17.636	21.482	24.39	3.0077	-0.375	0	0.375	0.30619

Device Test: 22.19 TIMING|STARTUP/SS_TR/12////@T_SS_5P6NF

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (ms))

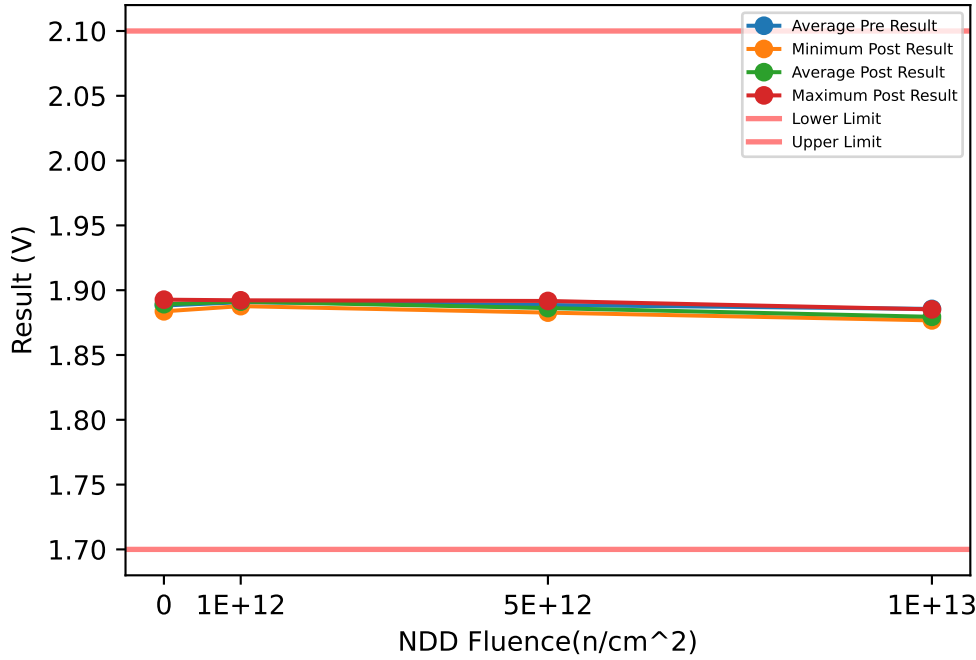
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.5192	1.5592	0.04
171	1e+12	NDD	1.5592	1.5592	0
269	1e+12	NDD	1.5192	1.5592	0.04
337	1e+12	NDD	1.5192	1.5192	0
357	5e+12	NDD	1.5192	1.5592	0.04
361	5e+12	NDD	1.5592	1.5592	0
373	5e+12	NDD	1.5192	1.5592	0.04
412	5e+12	NDD	1.4792	1.5192	0.04
470	1e+13	NDD	1.5192	1.5592	0.04
498	1e+13	NDD	1.5192	1.5592	0.04
503	1e+13	NDD	1.5192	1.5592	0.04
540	1e+13	NDD	1.4792	1.5192	0.04
553	0	CORRELATION	1.5192	1.5192	0
586	0	CORRELATION	1.5192	1.5192	0
634	0	CORRELATION	1.5192	1.5192	0
635	0	CORRELATION	1.5192	1.5192	0

Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5192	1.5192	1.5192	0	1.5192	1.5192	1.5192	0	0	0	0	0
1e+12	1.5192	1.5292	1.5592	0.02	1.5192	1.5492	1.5592	0.02	0	0.02	0.04	0.023094
5e+12	1.4792	1.5192	1.5592	0.03266	1.5192	1.5492	1.5592	0.02	0	0.03	0.04	0.02
1e+13	1.4792	1.5092	1.5192	0.02	1.5192	1.5492	1.5592	0.02	0.04	0.04	0.04	1.1102e-16

Device Test: 22.2 LEVEL|RISE/COMP/4.5////@COMP_SHDN

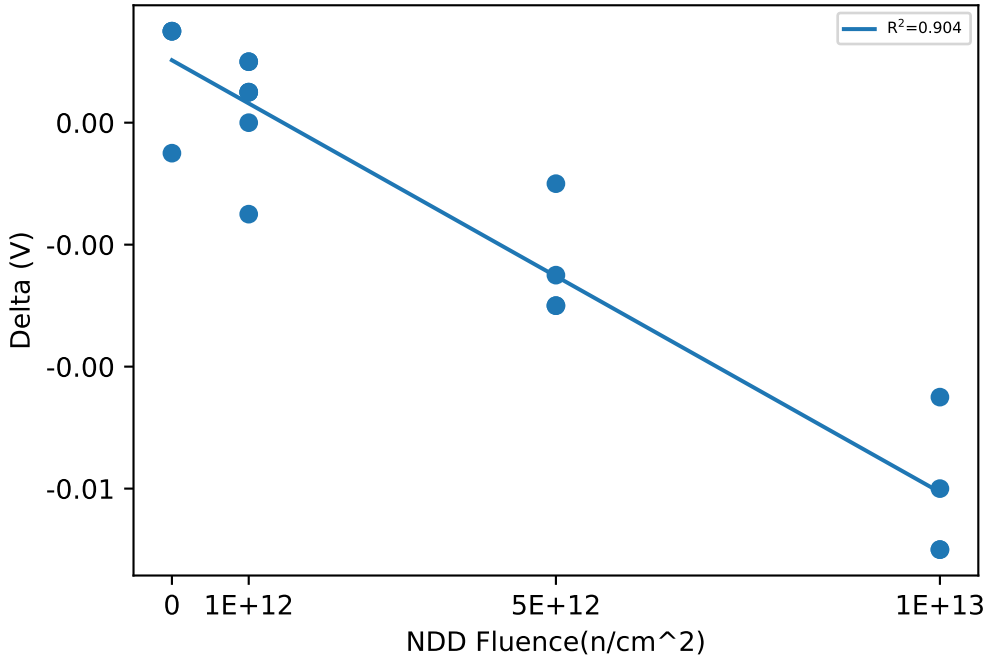
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.8912	1.8922	0.001
171	1e+12	NDD	1.8907	1.8912	0.0005
269	1e+12	NDD	1.8877	1.8877	0
337	1e+12	NDD	1.8932	1.8917	-0.0015
357	5e+12	NDD	1.8847	1.8837	-0.001
361	5e+12	NDD	1.8892	1.8867	-0.0025
373	5e+12	NDD	1.8857	1.8827	-0.003
412	5e+12	NDD	1.8947	1.8917	-0.003
470	1e+13	NDD	1.8847	1.8787	-0.006
498	1e+13	NDD	1.8837	1.8767	-0.007
503	1e+13	NDD	1.8842	1.8772	-0.007
540	1e+13	NDD	1.8897	1.8852	-0.0045
553	0	CORRELATION	1.8822	1.8837	0.0015
586	0	CORRELATION	1.8932	1.8927	-0.0005
634	0	CORRELATION	1.8907	1.8922	0.0015
635	0	CORRELATION	1.8867	1.8882	0.0015

NDD vs Post - Pre Exposure Delta

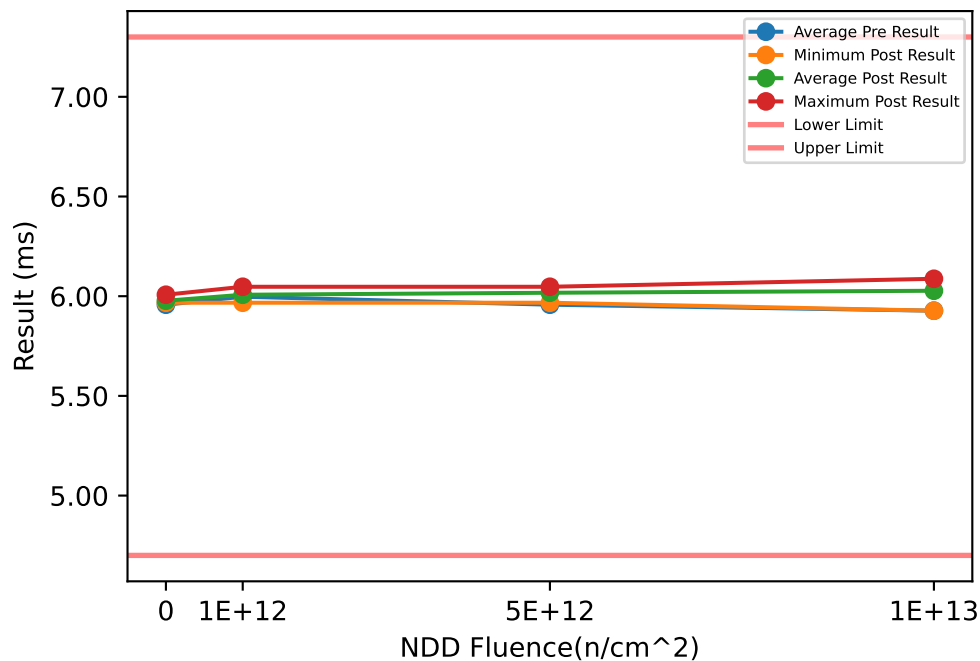


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8822	1.8882	1.8932	0.0048132	1.8837	1.8892	1.8927	0.0041833	-0.0005	0.001	0.0015	0.001
1e+12	1.8877	1.8907	1.8932	0.002273	1.8877	1.8907	1.8922	0.0020412	-0.0015	0	0.001	0.0010801
5e+12	1.8847	1.8886	1.8947	0.0045162	1.8827	1.8862	1.8917	0.0040415	-0.003	-0.002375	-0.001	0.00094648
1e+13	1.8837	1.8856	1.8897	0.0027801	1.8767	1.8795	1.8852	0.0039264	-0.007	-0.006125	-0.0045	0.0011815

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

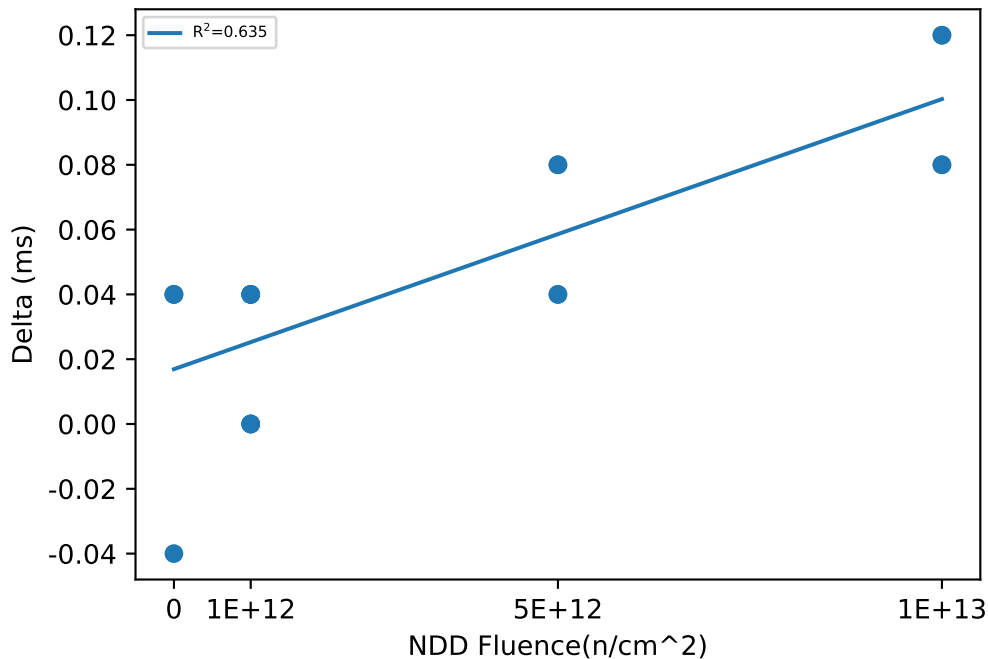
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.9673	5.9673	0
171	1e+12	NDD	6.0073	6.0073	0
269	1e+12	NDD	6.0073	6.0473	0.04
337	1e+12	NDD	6.0073	6.0473	0.04
357	5e+12	NDD	5.9273	6.0073	0.08
361	5e+12	NDD	6.0073	6.0473	0.04
373	5e+12	NDD	6.0073	6.0473	0.04
412	5e+12	NDD	5.8873	5.9673	0.08
470	1e+13	NDD	5.9673	6.0873	0.12
498	1e+13	NDD	5.9673	6.0473	0.08
503	1e+13	NDD	5.9273	6.0473	0.12
540	1e+13	NDD	5.8473	5.9273	0.08
553	0	CORRELATION	5.9273	5.9673	0.04
586	0	CORRELATION	6.0073	5.9673	-0.04
634	0	CORRELATION	5.9673	6.0073	0.04
635	0	CORRELATION	5.9273	5.9673	0.04

NDD vs Post - Pre Exposure Delta

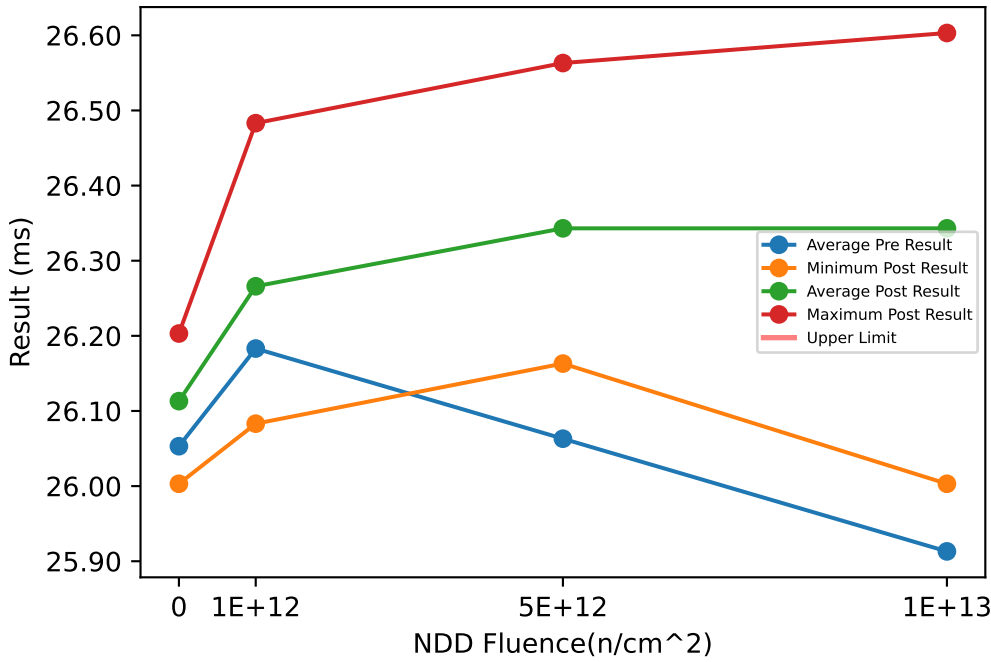


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.9273	5.9573	6.0073	0.038297	5.9673	5.9773	6.0073	0.02	-0.04	0.02	0.04	0.04
1e+12	5.9673	5.9973	6.0073	0.02	5.9673	6.0173	6.0473	0.038297	0	0.02	0.04	0.023094
5e+12	5.8873	5.9573	6.0073	0.06	5.9673	6.0173	6.0473	0.038297	0.04	0.06	0.08	0.023094
1e+13	5.8473	5.9273	5.9673	0.056569	5.9273	6.0273	6.0873	0.069282	0.08	0.1	0.12	0.023094

Device Test: 22.21 TIMING|STARTUP/SS_TR/12////@T_SS_100NF

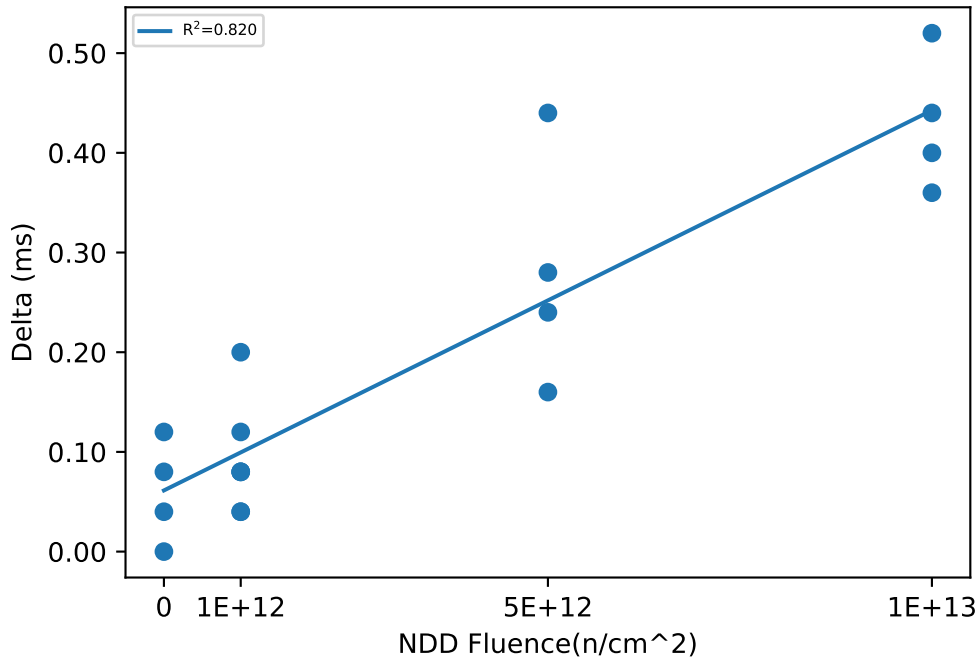
NDD vs Result Stats



Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	26.163	26.243	0.08
171	1e+12	NDD	26.003	26.083	0.08
269	1e+12	NDD	26.283	26.483	0.2
337	1e+12	NDD	26.283	26.403	0.12
357	5e+12	NDD	26.083	26.363	0.28
361	5e+12	NDD	26.123	26.283	0.16
373	5e+12	NDD	26.123	26.563	0.44
412	5e+12	NDD	25.923	26.163	0.24
470	1e+13	NDD	26.083	26.603	0.52
498	1e+13	NDD	25.883	26.323	0.44
503	1e+13	NDD	26.083	26.443	0.36
540	1e+13	NDD	25.603	26.003	0.4
553	0	CORRELATION	26.003	26.083	0.08
586	0	CORRELATION	26.003	26.003	0
634	0	CORRELATION	26.123	26.163	0.04
635	0	CORRELATION	26.083	26.203	0.12

NDD vs Post - Pre Exposure Delta

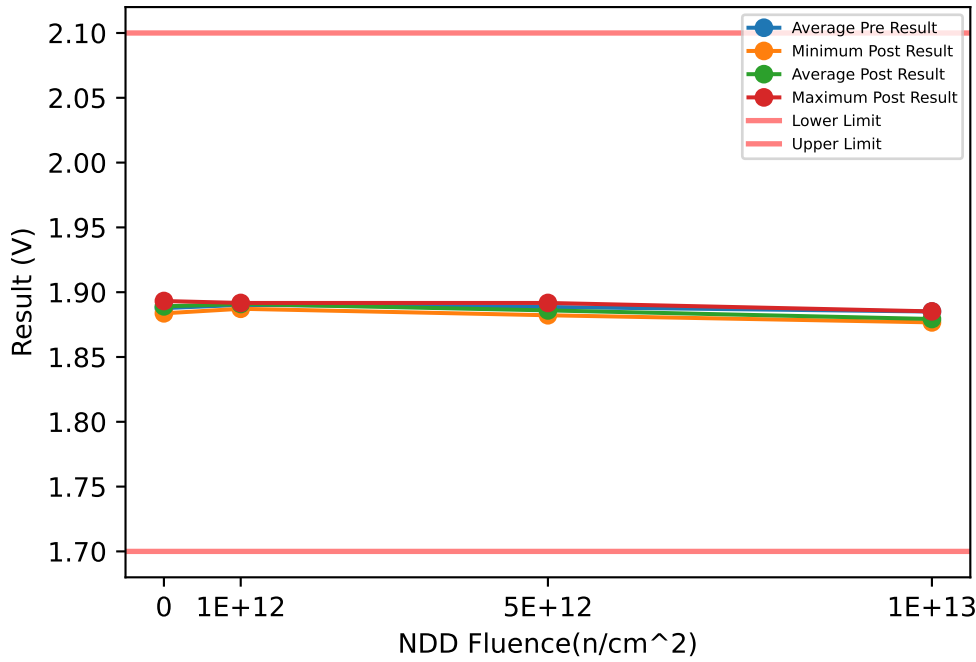


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.003	26.053	26.123	0.06	26.003	26.113	26.203	0.088694	0	0.06	0.12	0.05164
1e+12	26.003	26.183	26.283	0.13266	26.083	26.303	26.483	0.17739	0.08	0.12	0.2	0.056569
5e+12	25.923	26.063	26.123	0.095219	26.163	26.343	26.563	0.16813	0.16	0.28	0.44	0.11776
1e+13	25.603	25.913	26.083	0.22716	26.003	26.343	26.603	0.25403	0.36	0.43	0.52	0.068313

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

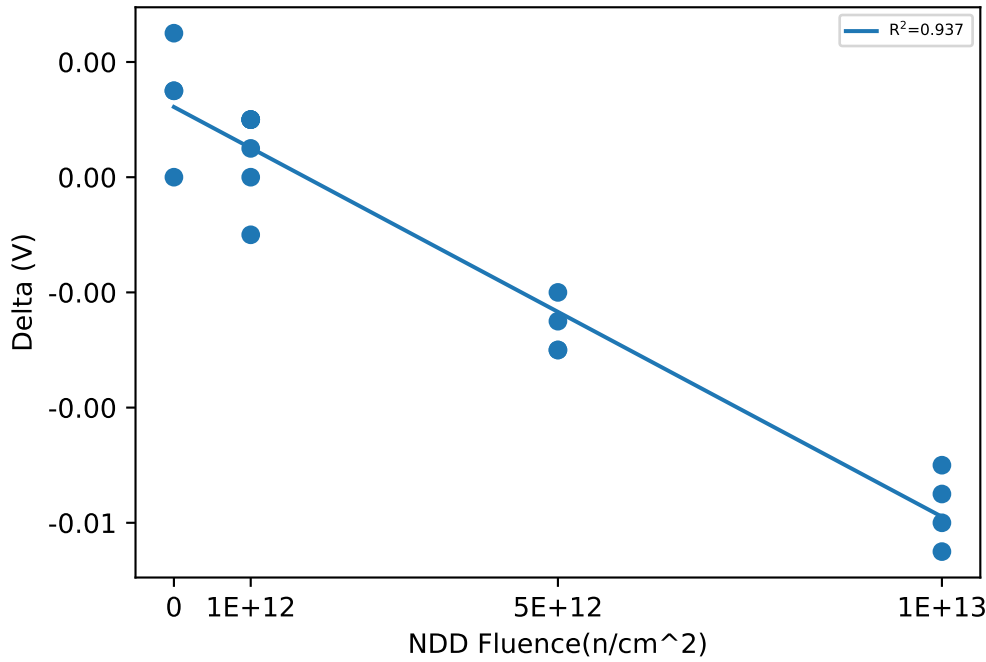
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.8907	1.8917	0.001
171	1e+12	NDD	1.8902	1.8907	0.0005
269	1e+12	NDD	1.8872	1.8872	0
337	1e+12	NDD	1.8927	1.8917	-0.001
357	5e+12	NDD	1.8852	1.8832	-0.002
361	5e+12	NDD	1.8892	1.8867	-0.0025
373	5e+12	NDD	1.8852	1.8822	-0.003
412	5e+12	NDD	1.8947	1.8917	-0.003
470	1e+13	NDD	1.8842	1.8787	-0.0055
498	1e+13	NDD	1.8827	1.8767	-0.006
503	1e+13	NDD	1.8832	1.8767	-0.0065
540	1e+13	NDD	1.8902	1.8852	-0.005
553	0	CORRELATION	1.8822	1.8837	0.0015
586	0	CORRELATION	1.8932	1.8932	0
634	0	CORRELATION	1.8902	1.8917	0.0015
635	0	CORRELATION	1.8852	1.8877	0.0025

NDD vs Post - Pre Exposure Delta

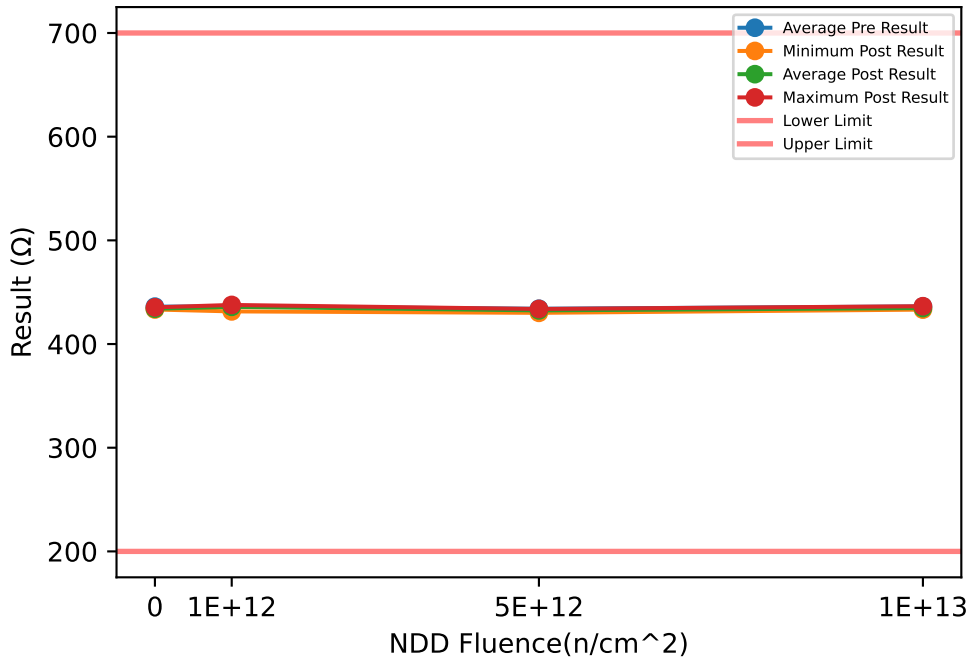


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8822	1.8877	1.8932	0.0049329	1.8837	1.8891	1.8932	0.0042696	0	0.001375	0.0025	0.0010308
1e+12	1.8872	1.8902	1.8927	0.002273	1.8872	1.8903	1.8917	0.002136	-0.001	0.000125	0.001	0.00085391
5e+12	1.8852	1.8886	1.8947	0.0044977	1.8822	1.886	1.8917	0.0042915	-0.003	-0.002625	-0.002	0.00047871
1e+13	1.8827	1.8851	1.8902	0.0034731	1.8767	1.8793	1.8852	0.0040285	-0.0065	-0.00575	-0.005	0.0006455

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

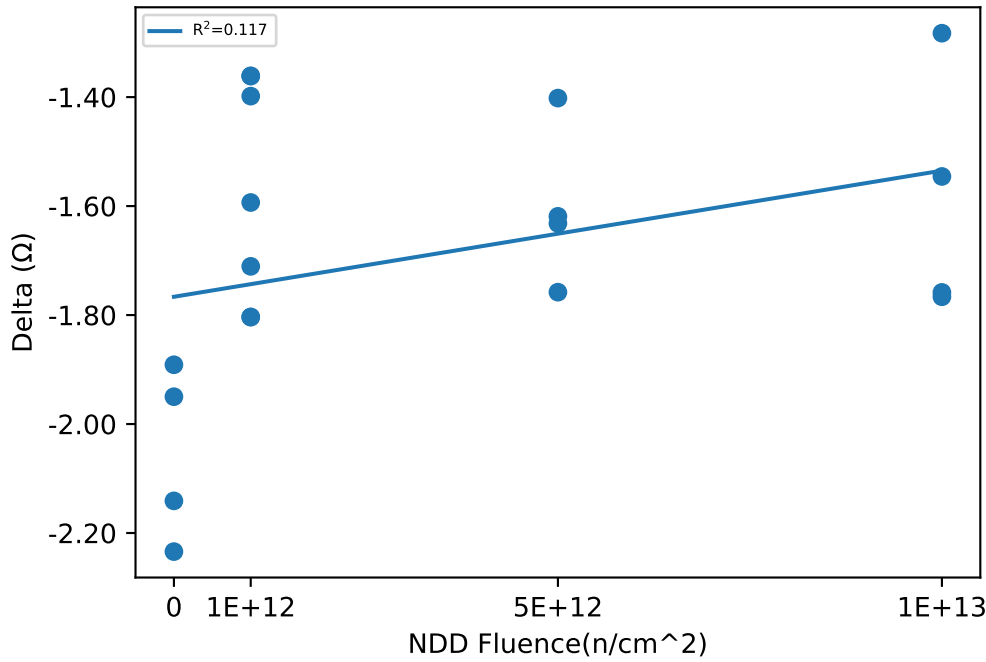
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	439.08	437.27	-1.8036
171	1e+12	NDD	433.19	431.48	-1.7106
269	1e+12	NDD	438.26	436.86	-1.3982
337	1e+12	NDD	434.42	432.82	-1.5934
357	5e+12	NDD	434.63	433	-1.6317
361	5e+12	NDD	431.85	430.09	-1.758
373	5e+12	NDD	435.22	433.82	-1.4018
412	5e+12	NDD	434.52	432.9	-1.6188
470	1e+13	NDD	438.03	436.49	-1.5456
498	1e+13	NDD	434.95	433.19	-1.7584
503	1e+13	NDD	434.92	433.64	-1.2827
540	1e+13	NDD	437.2	435.43	-1.7664
553	0	CORRELATION	435.74	433.6	-2.141
586	0	CORRELATION	436.14	433.91	-2.2341
634	0	CORRELATION	435.19	433.3	-1.8912
635	0	CORRELATION	437.31	435.36	-1.9498

NDD vs Post - Pre Exposure Delta

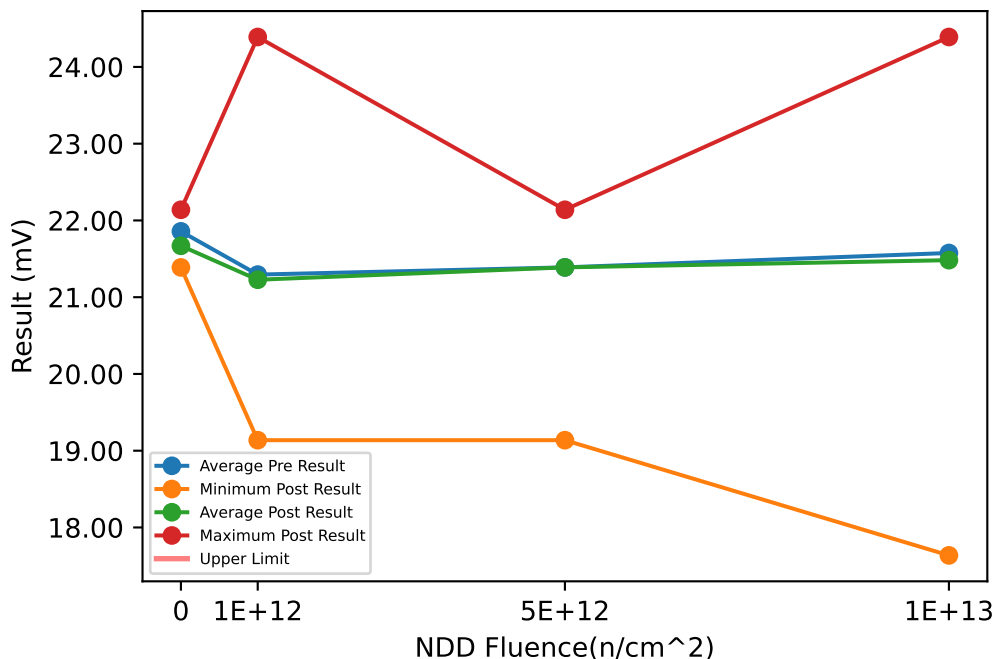


Test Statistics (Ω)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	435.19	436.1	437.31	0.8994	433.3	434.04	435.36	0.91428	-2.2341	-2.054	-1.8912	0.16059
1e+12	433.19	436.24	439.08	2.8731	431.48	434.61	437.27	2.8963	-1.8036	-1.6264	-1.3982	0.17479
5e+12	431.85	434.05	435.22	1.5009	430.09	432.45	433.82	1.6257	-1.758	-1.6026	-1.4018	0.14785
1e+13	434.92	436.27	438.03	1.5844	433.19	434.69	436.49	1.5416	-1.7664	-1.5883	-1.2827	0.22794

Device Test: 22.25 LEVEL|STATIC/SS_TR/14////@V_SS_START

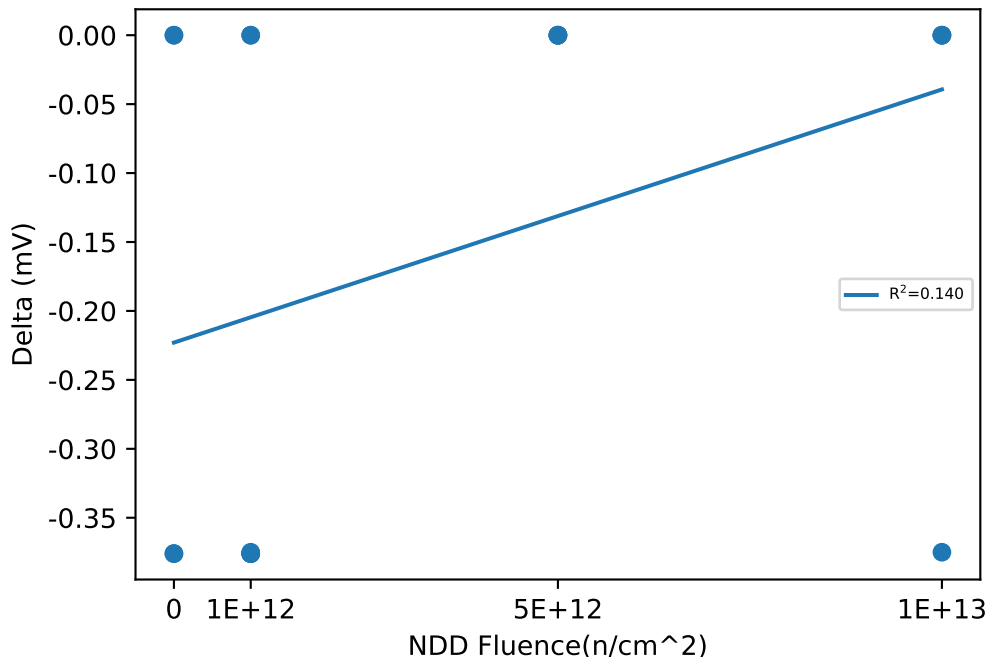
NDD vs Result Stats



Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	21.764	21.388	-0.376
171	1e+12	NDD	19.137	19.137	0
269	1e+12	NDD	24.39	24.39	0
337	1e+12	NDD	19.887	19.512	-0.375
357	5e+12	NDD	22.139	22.139	0
361	5e+12	NDD	22.139	22.139	0
373	5e+12	NDD	22.139	22.139	0
412	5e+12	NDD	19.137	19.137	0
470	1e+13	NDD	20.638	20.638	0
498	1e+13	NDD	23.64	23.265	-0.375
503	1e+13	NDD	17.636	17.636	0
540	1e+13	NDD	24.39	24.39	0
553	0	CORRELATION	21.764	21.388	-0.376
586	0	CORRELATION	22.139	22.139	0
634	0	CORRELATION	21.764	21.764	0
635	0	CORRELATION	21.764	21.388	-0.376

NDD vs Post - Pre Exposure Delta

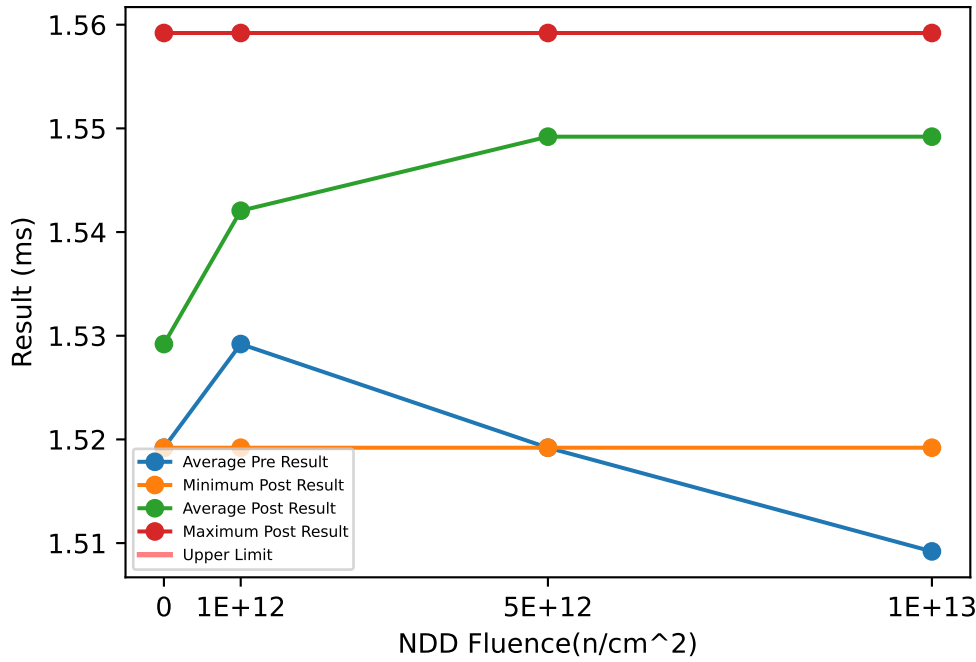


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	21.764	21.858	22.139	0.1875	21.388	21.67	22.139	0.35956	-0.376	-0.188	0	0.21708
1e+12	19.137	21.294	24.39	2.3408	19.137	21.107	24.39	2.4001	-0.376	-0.18775	0	0.2168
5e+12	19.137	21.389	22.139	1.501	19.137	21.389	22.139	1.501	0	0	0	0
1e+13	17.636	21.576	24.39	3.0866	17.636	21.482	24.39	3.0077	-0.375	-0.09375	0	0.1875

Device Test: 22.26 TIMING|STARTUP/SS_TR/14////@T_SS_5P6NF

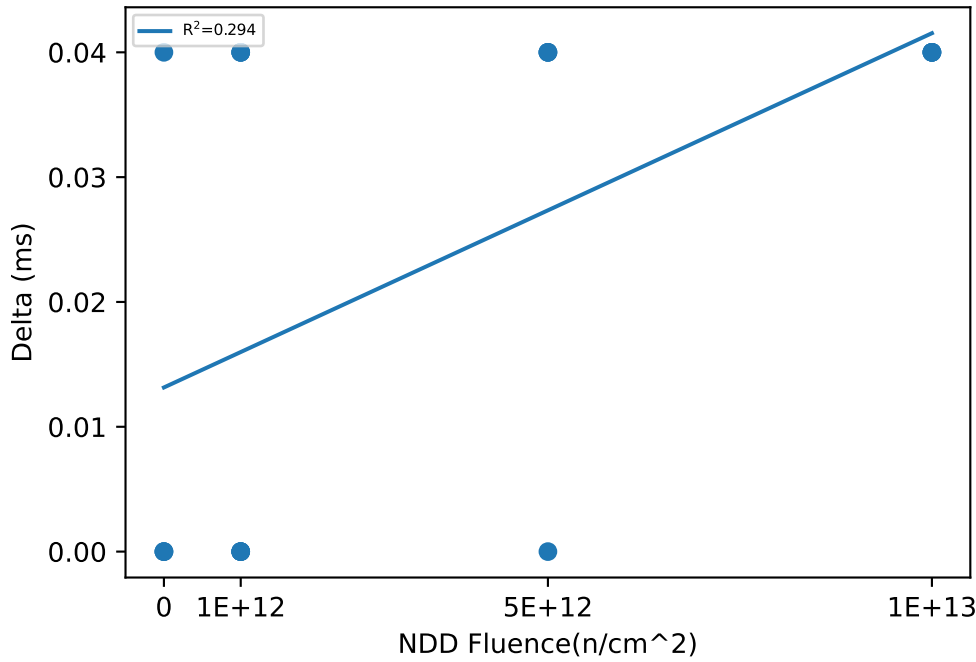
NDD vs Result Stats



Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.5192	1.5592	0.04
171	1e+12	NDD	1.5592	1.5592	0
269	1e+12	NDD	1.5192	1.5592	0.04
337	1e+12	NDD	1.5192	1.5192	0
357	5e+12	NDD	1.5192	1.5592	0.04
361	5e+12	NDD	1.5592	1.5592	0
373	5e+12	NDD	1.5192	1.5592	0.04
412	5e+12	NDD	1.4792	1.5192	0.04
470	1e+13	NDD	1.5192	1.5592	0.04
498	1e+13	NDD	1.5192	1.5592	0.04
503	1e+13	NDD	1.5192	1.5592	0.04
540	1e+13	NDD	1.4792	1.5192	0.04
553	0	CORRELATION	1.5192	1.5192	0
586	0	CORRELATION	1.5192	1.5592	0.04
634	0	CORRELATION	1.5192	1.5192	0
635	0	CORRELATION	1.5192	1.5192	0

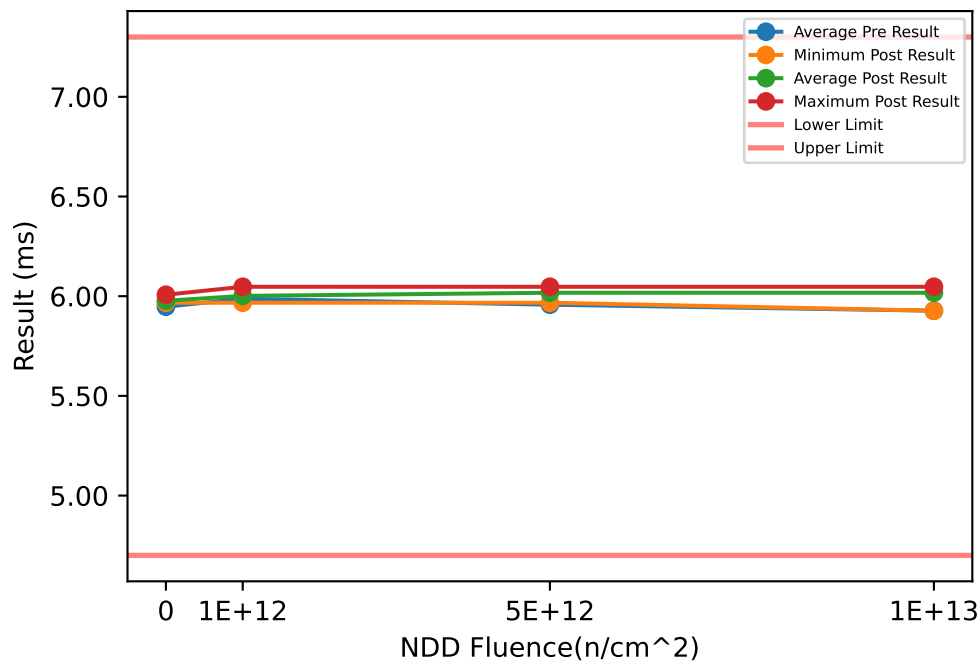
NDD vs Post - Pre Exposure Delta



Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5192	1.5192	1.5192	0	1.5192	1.5292	1.5592	0.02	0	0.01	0.04	0.02
1e+12	1.5192	1.5292	1.5592	0.02	1.5192	1.5492	1.5592	0.02	0	0.02	0.04	0.023094
5e+12	1.4792	1.5192	1.5592	0.03266	1.5192	1.5492	1.5592	0.02	0	0.03	0.04	0.02
1e+13	1.4792	1.5092	1.5192	0.02	1.5192	1.5492	1.5592	0.02	0.04	0.04	0.04	1.1102e-16

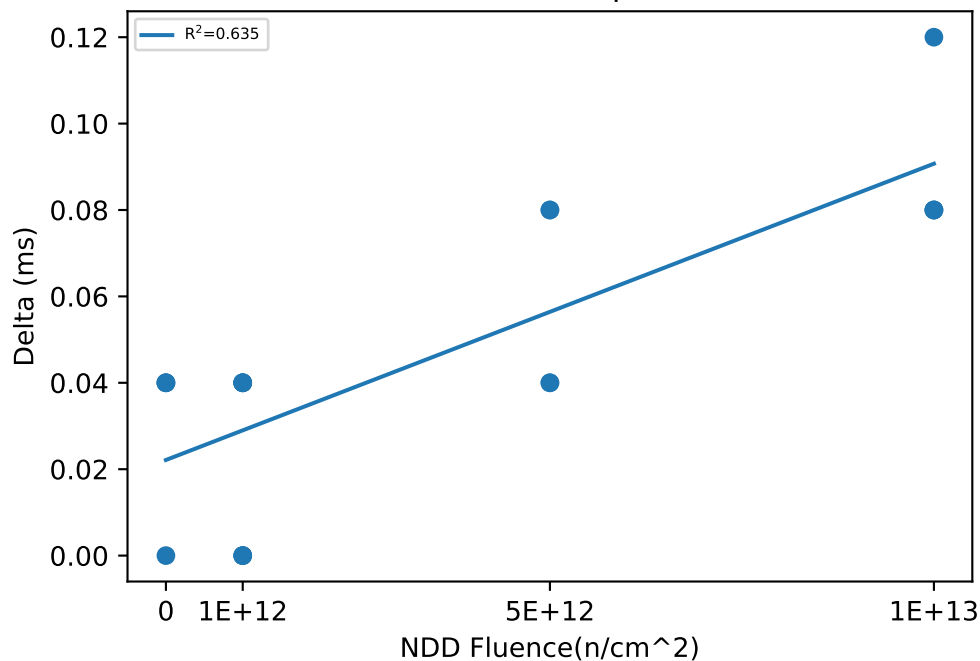
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.9673	5.9673	0
171	1e+12	NDD	6.0073	6.0073	0
269	1e+12	NDD	6.0073	6.0473	0.04
337	1e+12	NDD	5.9673	6.0073	0.04
357	5e+12	NDD	5.9673	6.0073	0.04
361	5e+12	NDD	6.0073	6.0473	0.04
373	5e+12	NDD	5.9673	6.0473	0.08
412	5e+12	NDD	5.8873	5.9673	0.08
470	1e+13	NDD	5.9673	6.0473	0.08
498	1e+13	NDD	5.9673	6.0473	0.08
503	1e+13	NDD	5.9273	6.0473	0.12
540	1e+13	NDD	5.8473	5.9273	0.08
553	0	CORRELATION	5.9273	5.9673	0.04
586	0	CORRELATION	5.9673	5.9673	0
634	0	CORRELATION	5.9673	6.0073	0.04
635	0	CORRELATION	5.9273	5.9673	0.04

NDD vs Post - Pre Exposure Delta

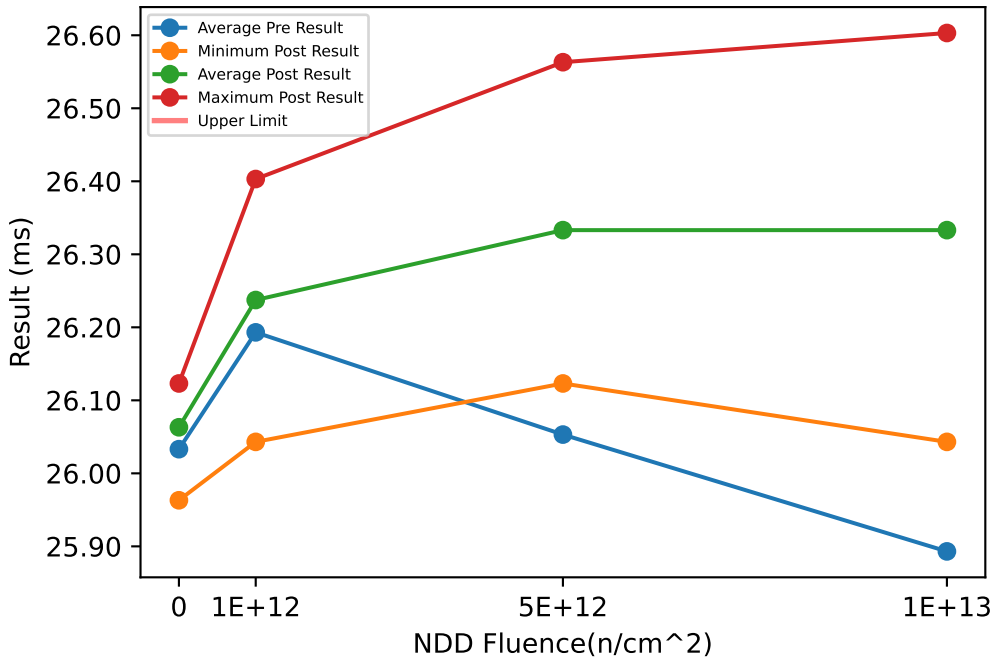


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.9273	5.9473	5.9673	0.023094	5.9673	5.9773	6.0073	0.02	0	0.03	0.04	0.02
1e+12	5.9673	5.9873	6.0073	0.023094	5.9673	6.0073	6.0473	0.03266	0	0.02	0.04	0.023094
5e+12	5.8873	5.9573	6.0073	0.050332	5.9673	6.0173	6.0473	0.038297	0.04	0.06	0.08	0.023094
1e+13	5.8473	5.9273	5.9673	0.056569	5.9273	6.0173	6.0473	0.06	0.08	0.09	0.12	0.02

Device Test: 22.28 TIMING|STARTUP/SS_TR/14////@T_SS_100NF

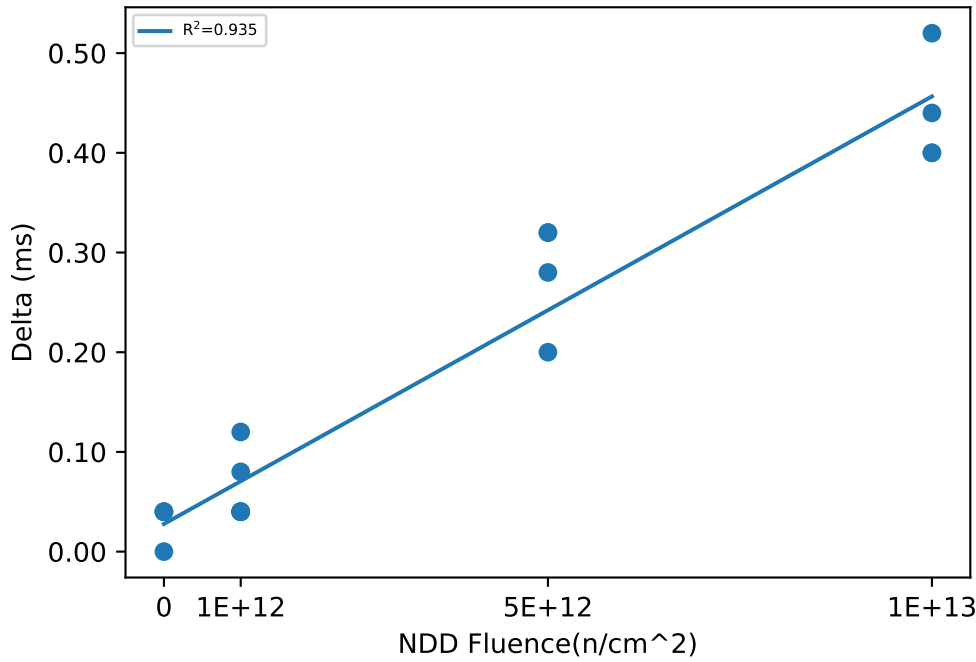
NDD vs Result Stats



Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	26.163	26.203	0.04
171	1e+12	NDD	26.003	26.043	0.04
269	1e+12	NDD	26.323	26.403	0.08
337	1e+12	NDD	26.283	26.403	0.12
357	5e+12	NDD	26.043	26.363	0.32
361	5e+12	NDD	26.083	26.283	0.2
373	5e+12	NDD	26.243	26.563	0.32
412	5e+12	NDD	25.843	26.123	0.28
470	1e+13	NDD	26.083	26.603	0.52
498	1e+13	NDD	25.883	26.283	0.4
503	1e+13	NDD	26.003	26.403	0.4
540	1e+13	NDD	25.603	26.043	0.44
553	0	CORRELATION	26.003	26.043	0.04
586	0	CORRELATION	25.923	25.963	0.04
634	0	CORRELATION	26.123	26.123	0
635	0	CORRELATION	26.083	26.123	0.04

NDD vs Post - Pre Exposure Delta

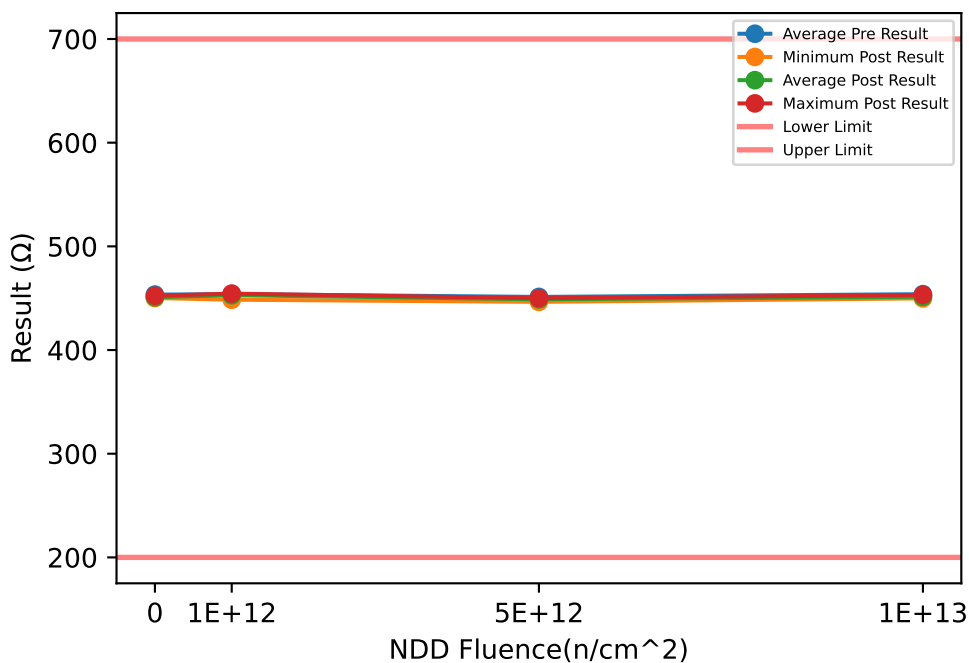


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	25.923	26.033	26.123	0.088694	25.963	26.063	26.123	0.076594	0	0.03	0.04	0.02
1e+12	26.003	26.193	26.323	0.14376	26.043	26.263	26.403	0.17436	0.04	0.07	0.12	0.038297
5e+12	25.843	26.053	26.243	0.16452	26.123	26.333	26.563	0.18294	0.2	0.28	0.32	0.056569
1e+13	25.603	25.893	26.083	0.21008	26.043	26.333	26.603	0.23409	0.4	0.44	0.52	0.056569

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

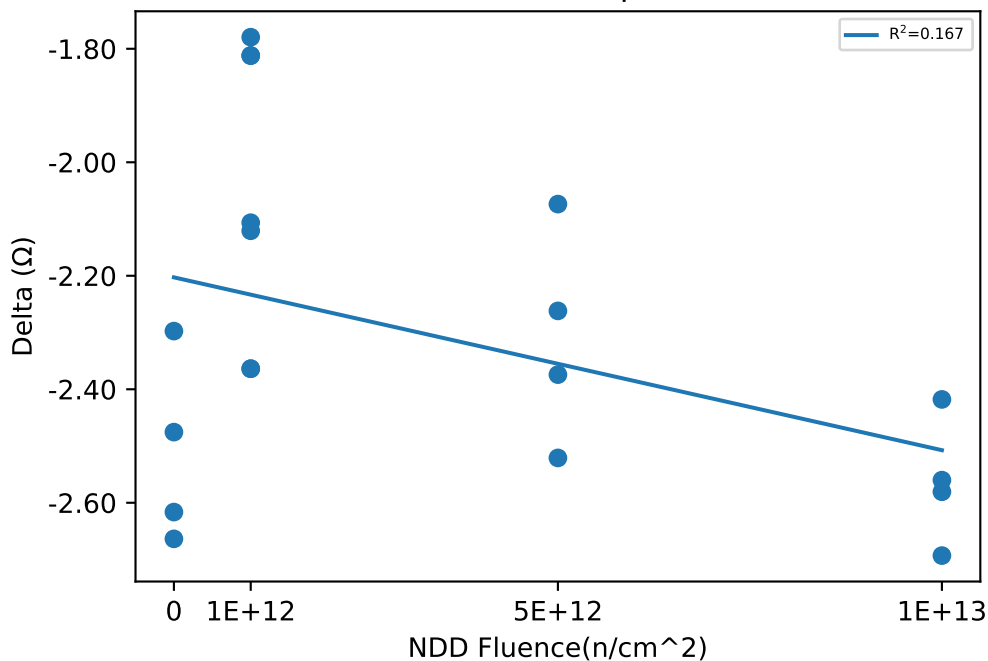
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	456.24	453.87	-2.3638
171	1e+12	NDD	450.65	448.53	-2.1207
269	1e+12	NDD	456.21	454.43	-1.7796
337	1e+12	NDD	452.54	450.43	-2.1065
357	5e+12	NDD	451.96	449.59	-2.3742
361	5e+12	NDD	448.98	446.46	-2.521
373	5e+12	NDD	452.04	449.97	-2.0737
412	5e+12	NDD	451.97	449.71	-2.2619
470	1e+13	NDD	455.72	453.16	-2.5601
498	1e+13	NDD	452.46	449.88	-2.5806
503	1e+13	NDD	452.22	449.8	-2.4179
540	1e+13	NDD	455.15	452.46	-2.6931
553	0	CORRELATION	452.81	450.19	-2.6164
586	0	CORRELATION	452.8	450.14	-2.6636
634	0	CORRELATION	453.48	451.19	-2.2975
635	0	CORRELATION	454.79	452.32	-2.4755

NDD vs Post - Pre Exposure Delta

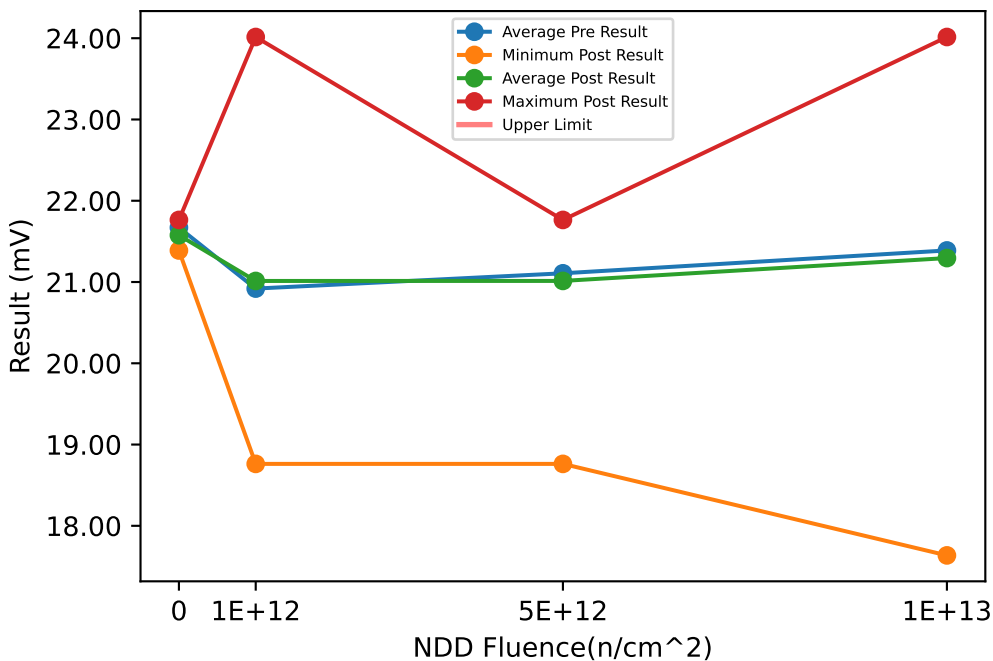


Test Statistics (Ω)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	452.8	453.47	454.79	0.9383	450.14	450.96	452.32	1.0274	-2.6636	-2.5132	-2.2975	0.16454
1e+12	450.65	453.91	456.24	2.7813	448.53	451.81	454.43	2.8152	-2.3638	-2.0926	-1.7796	0.23979
5e+12	448.98	451.24	452.04	1.5044	446.46	448.93	449.97	1.6538	-2.521	-2.3077	-2.0737	0.18866
1e+13	452.22	453.89	455.72	1.804	449.8	451.32	453.16	1.7368	-2.6931	-2.5629	-2.4179	0.11299

Device Test: 22.4 LEVEL|STATIC/SS_TR/4.5////@V_SS_START

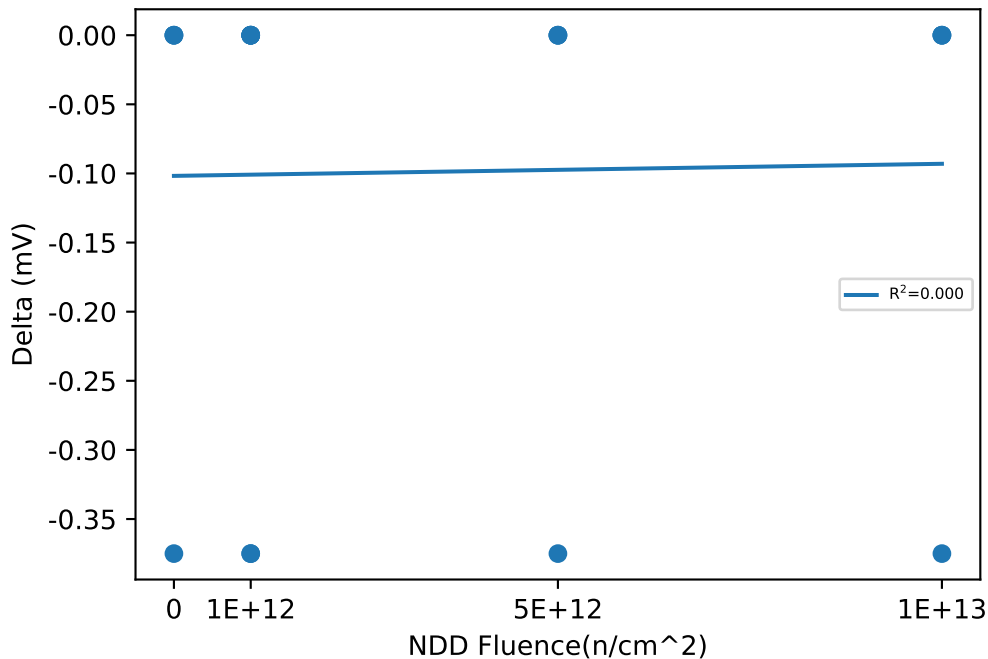
NDD vs Result Stats



Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	21.388	21.013	-0.375
171	1e+12	NDD	18.762	18.762	0
269	1e+12	NDD	24.015	24.015	0
337	1e+12	NDD	19.512	19.512	0
357	5e+12	NDD	21.764	21.764	0
361	5e+12	NDD	21.764	21.764	0
373	5e+12	NDD	21.764	21.764	0
412	5e+12	NDD	19.137	18.762	-0.375
470	1e+13	NDD	20.638	20.263	-0.375
498	1e+13	NDD	23.265	23.265	0
503	1e+13	NDD	17.636	17.636	0
540	1e+13	NDD	24.015	24.015	0
553	0	CORRELATION	21.388	21.388	0
586	0	CORRELATION	22.139	21.764	-0.375
634	0	CORRELATION	21.764	21.764	0
635	0	CORRELATION	21.388	21.388	0

NDD vs Post - Pre Exposure Delta

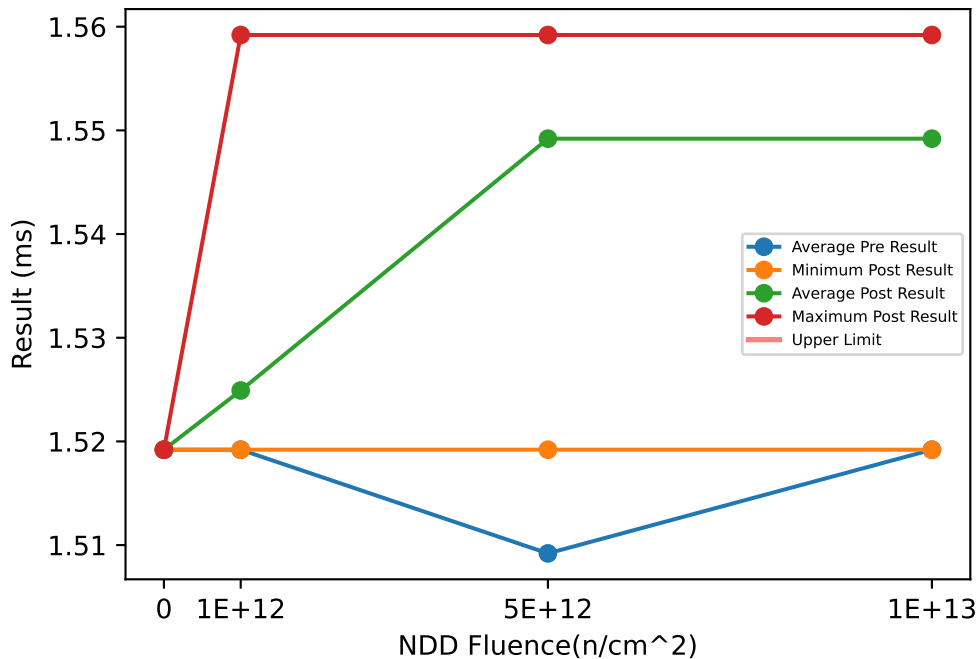


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	21.388	21.67	22.139	0.35956	21.388	21.576	21.764	0.21708	-0.375	-0.09375	0	0.1875
1e+12	18.762	20.919	24.015	2.3408	18.762	20.826	24.015	2.3232	-0.375	-0.09375	0	0.1875
5e+12	19.137	21.107	21.764	1.3135	18.762	21.014	21.764	1.501	-0.375	-0.09375	0	0.1875
1e+13	17.636	21.389	24.015	2.8905	17.636	21.295	24.015	2.9287	-0.375	-0.09375	0	0.1875

Device Test: 22.5 TIMING|STARTUP/SS_TR/4.5////@T_SS_5P6NF

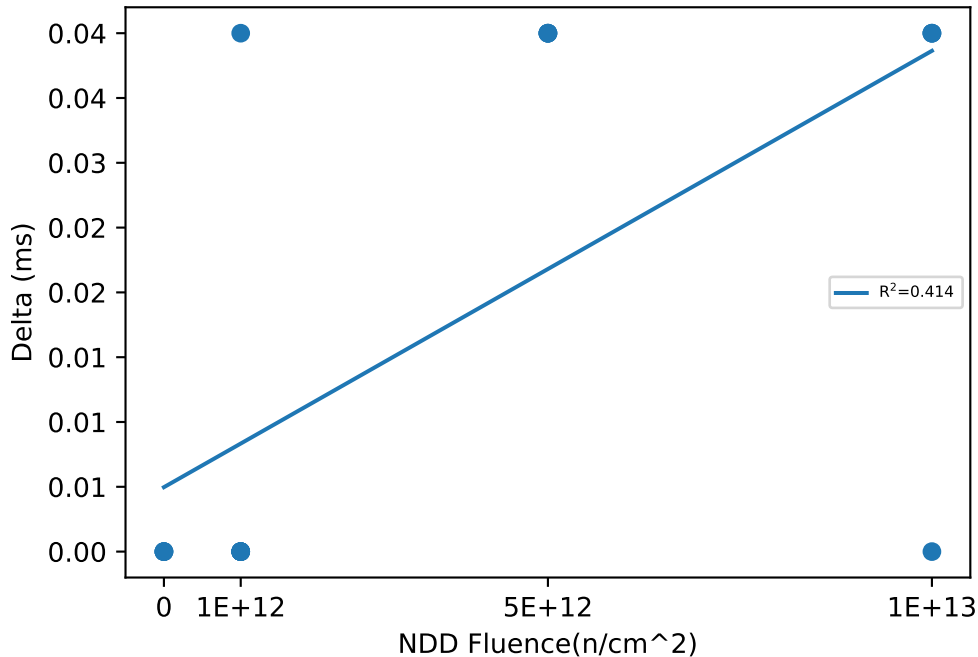
NDD vs Result Stats



Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.5192	1.5192	0
171	1e+12	NDD	1.5192	1.5592	0.04
269	1e+12	NDD	1.5192	1.5192	0
337	1e+12	NDD	1.5192	1.5192	0
357	5e+12	NDD	1.5192	1.5592	0.04
361	5e+12	NDD	1.5192	1.5592	0.04
373	5e+12	NDD	1.5192	1.5592	0.04
412	5e+12	NDD	1.4792	1.5192	0.04
470	1e+13	NDD	1.5192	1.5592	0.04
498	1e+13	NDD	1.5192	1.5592	0.04
503	1e+13	NDD	1.5192	1.5592	0.04
540	1e+13	NDD	1.5192	1.5192	0
553	0	CORRELATION	1.5192	1.5192	0
586	0	CORRELATION	1.5192	1.5192	0
634	0	CORRELATION	1.5192	1.5192	0
635	0	CORRELATION	1.5192	1.5192	0

NDD vs Post - Pre Exposure Delta

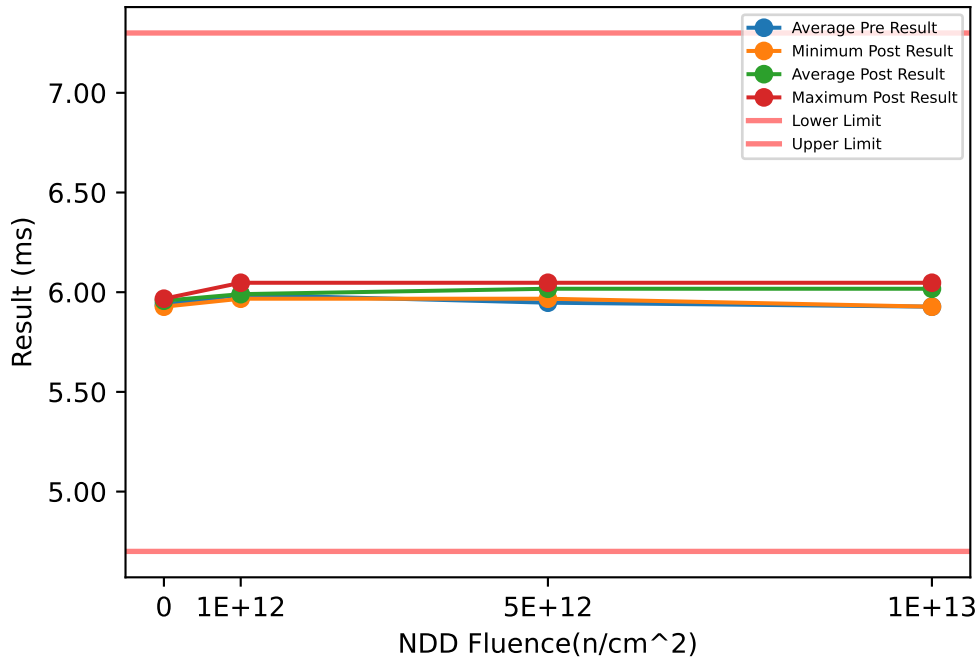


Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.5192	1.5192	1.5192	0	1.5192	1.5192	1.5192	0	0	0	0	0
1e+12	1.5192	1.5192	1.5192	0	1.5192	1.5292	1.5592	0.02	0	0.01	0.04	0.02
5e+12	1.4792	1.5092	1.5192	0.02	1.5192	1.5492	1.5592	0.02	0.04	0.04	0.04	1.1102e-16
1e+13	1.5192	1.5192	1.5192	0	1.5192	1.5492	1.5592	0.02	0	0.03	0.04	0.02

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

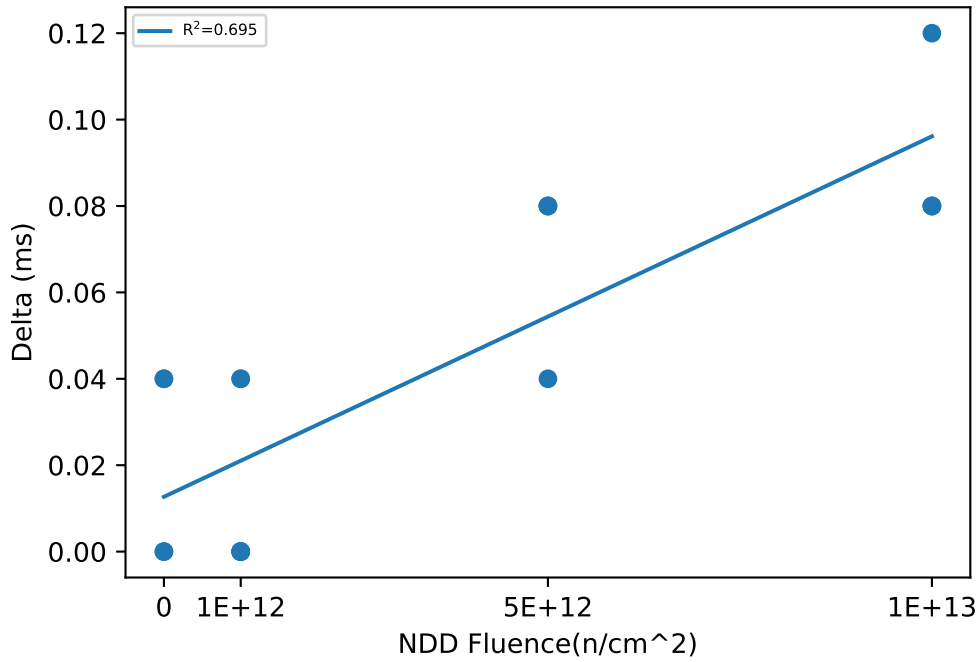
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	5.9673	5.9673	0
171	1e+12	NDD	6.0073	6.0073	0
269	1e+12	NDD	6.0073	6.0473	0.04
337	1e+12	NDD	5.9673	6.0073	0.04
357	5e+12	NDD	5.9273	6.0073	0.08
361	5e+12	NDD	5.9673	6.0473	0.08
373	5e+12	NDD	5.9673	6.0473	0.08
412	5e+12	NDD	5.9273	5.9673	0.04
470	1e+13	NDD	5.9673	6.0473	0.08
498	1e+13	NDD	5.9273	6.0473	0.12
503	1e+13	NDD	5.9673	6.0473	0.08
540	1e+13	NDD	5.8473	5.9273	0.08
553	0	CORRELATION	5.9273	5.9273	0
586	0	CORRELATION	5.9673	5.9673	0
634	0	CORRELATION	5.9273	5.9673	0.04
635	0	CORRELATION	5.9273	5.9673	0.04

NDD vs Post - Pre Exposure Delta

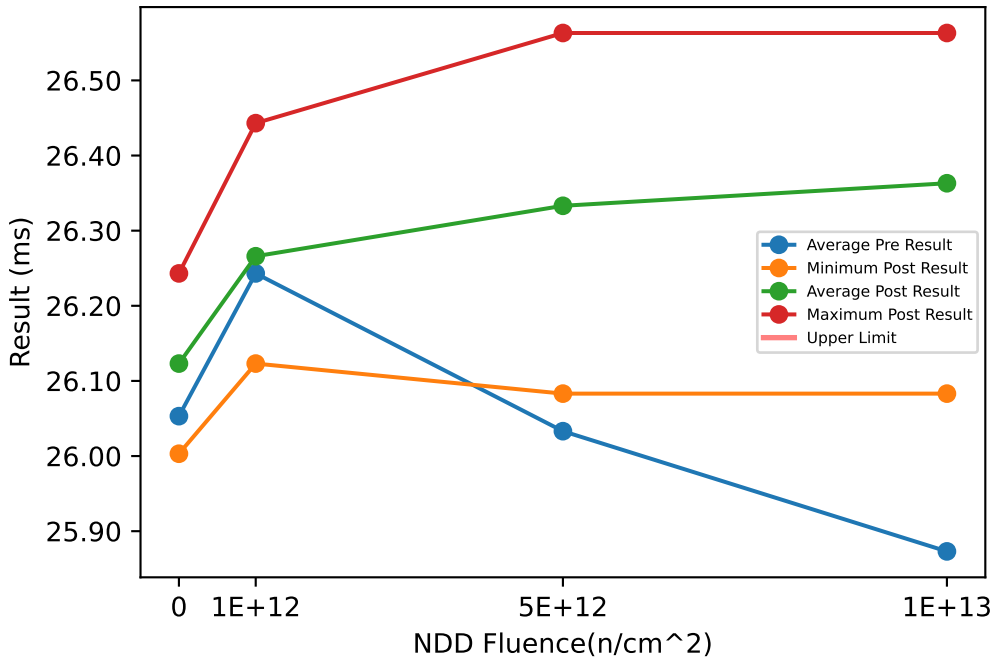


Test Statistics (ms)

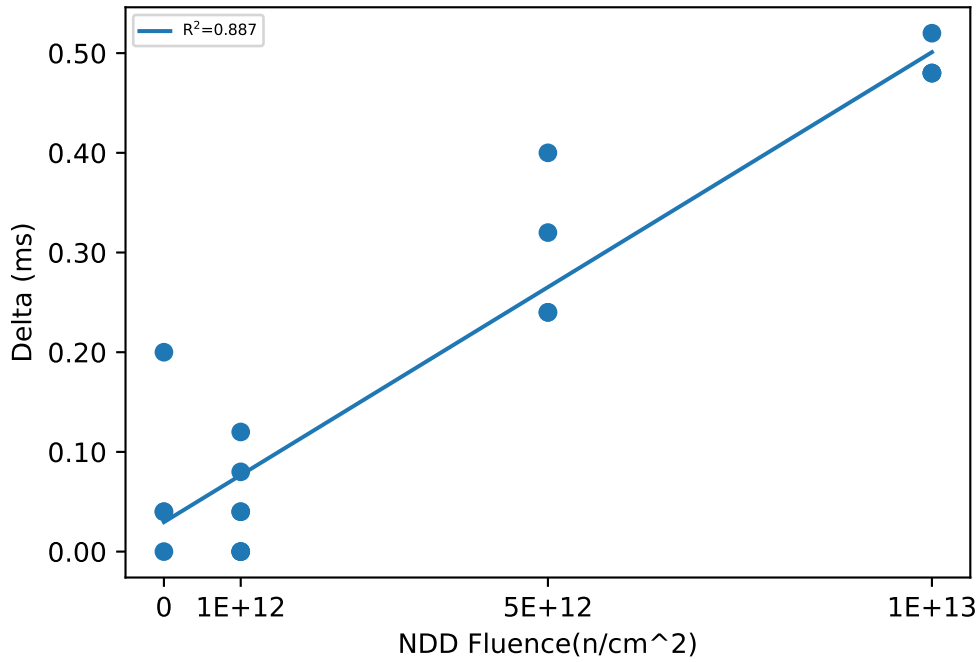
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.9273	5.9373	5.9673	0.02	5.9273	5.9573	5.9673	0.02	0	0.02	0.04	0.023094
1e+12	5.9673	5.9873	6.0073	0.023094	5.9673	6.0073	6.0473	0.03266	0	0.02	0.04	0.023094
5e+12	5.9273	5.9473	5.9673	0.023094	5.9673	6.0173	6.0473	0.038297	0.04	0.07	0.08	0.02
1e+13	5.8473	5.9273	5.9673	0.056569	5.9273	6.0173	6.0473	0.06	0.08	0.09	0.12	0.02

Device Test: 22.7 TIMING|STARTUP/SS_TR/4.5////@T_SS_100NF

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (ms))

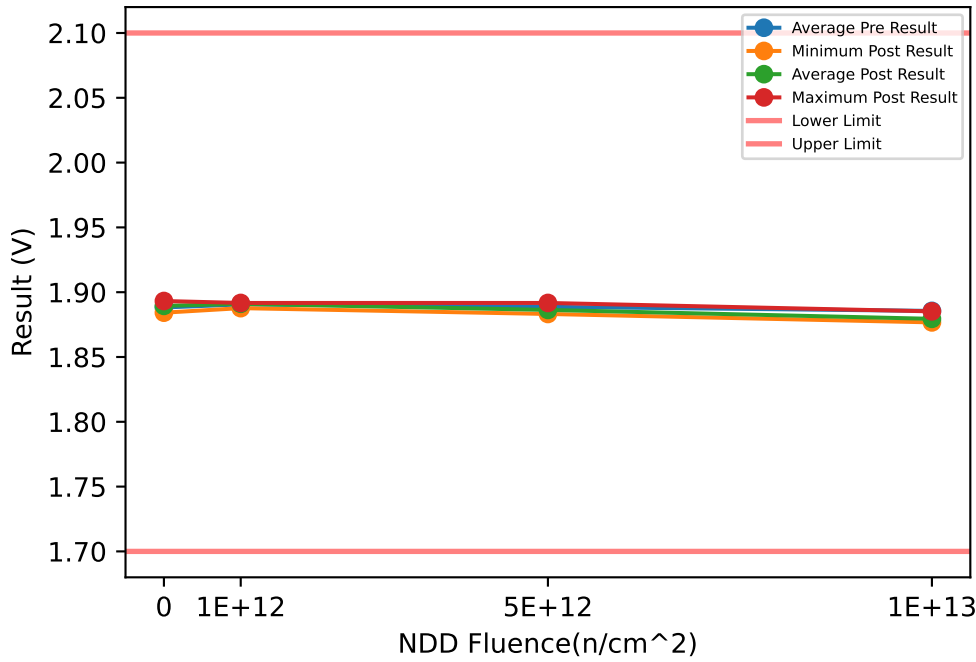
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	26.203	26.203	0
171	1e+12	NDD	26.043	26.123	0.08
269	1e+12	NDD	26.443	26.443	0
337	1e+12	NDD	26.283	26.403	0.12
357	5e+12	NDD	26.083	26.403	0.32
361	5e+12	NDD	26.043	26.283	0.24
373	5e+12	NDD	26.163	26.563	0.4
412	5e+12	NDD	25.843	26.083	0.24
470	1e+13	NDD	26.083	26.563	0.48
498	1e+13	NDD	25.803	26.323	0.52
503	1e+13	NDD	26.003	26.483	0.48
540	1e+13	NDD	25.603	26.083	0.48
553	0	CORRELATION	26.043	26.083	0.04
586	0	CORRELATION	26.003	26.003	0
634	0	CORRELATION	26.123	26.163	0.04
635	0	CORRELATION	26.043	26.243	0.2

Test Statistics (ms)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	26.003	26.053	26.123	0.050332	26.003	26.123	26.243	0.10328	0	0.07	0.2	0.088694
1e+12	26.043	26.243	26.443	0.16653	26.123	26.293	26.443	0.15449	0	0.05	0.12	0.06
5e+12	25.843	26.033	26.163	0.13614	26.083	26.333	26.563	0.20232	0.24	0.3	0.4	0.076594
1e+13	25.603	25.873	26.083	0.2151	26.083	26.363	26.563	0.21166	0.48	0.49	0.52	0.02

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

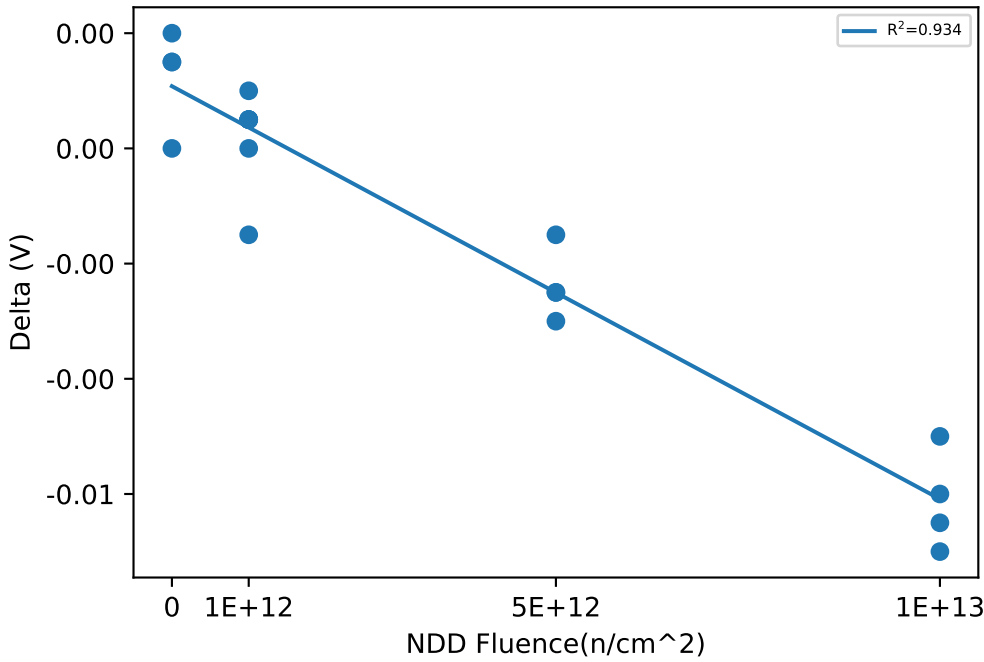
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.8912	1.8917	0.0005
171	1e+12	NDD	1.8902	1.8912	0.001
269	1e+12	NDD	1.8877	1.8877	0
337	1e+12	NDD	1.8932	1.8917	-0.0015
357	5e+12	NDD	1.8852	1.8837	-0.0015
361	5e+12	NDD	1.8892	1.8867	-0.0025
373	5e+12	NDD	1.8857	1.8832	-0.0025
412	5e+12	NDD	1.8947	1.8917	-0.003
470	1e+13	NDD	1.8847	1.8787	-0.006
498	1e+13	NDD	1.8832	1.8767	-0.0065
503	1e+13	NDD	1.8842	1.8772	-0.007
540	1e+13	NDD	1.8902	1.8852	-0.005
553	0	CORRELATION	1.8827	1.8842	0.0015
586	0	CORRELATION	1.8932	1.8932	0
634	0	CORRELATION	1.8907	1.8922	0.0015
635	0	CORRELATION	1.8862	1.8882	0.002

NDD vs Post - Pre Exposure Delta

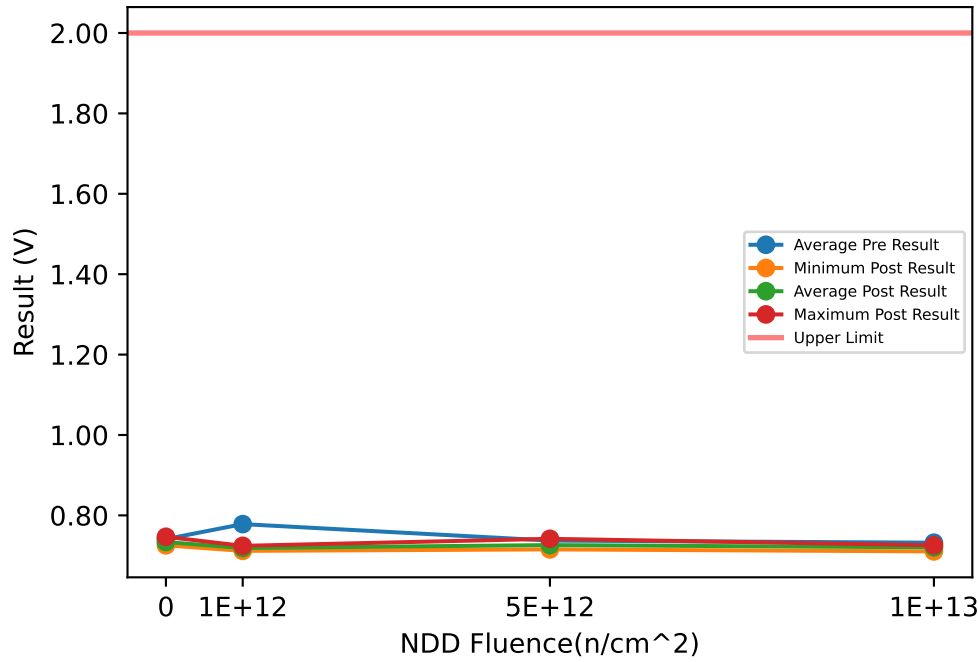


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8827	1.8882	1.8932	0.0046726	1.8842	1.8895	1.8932	0.004113	0	0.00125	0.002	0.00086603
1e+12	1.8877	1.8906	1.8932	0.0022867	1.8877	1.8906	1.8917	0.0019311	-0.0015	-5.5511e-17	0.001	0.0010801
5e+12	1.8852	1.8887	1.8947	0.004378	1.8832	1.8863	1.8917	0.0039025	-0.003	-0.002375	-0.0015	0.00062915
1e+13	1.8832	1.8856	1.8902	0.0031458	1.8767	1.8795	1.8852	0.0039264	-0.007	-0.006125	-0.005	0.00085391

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

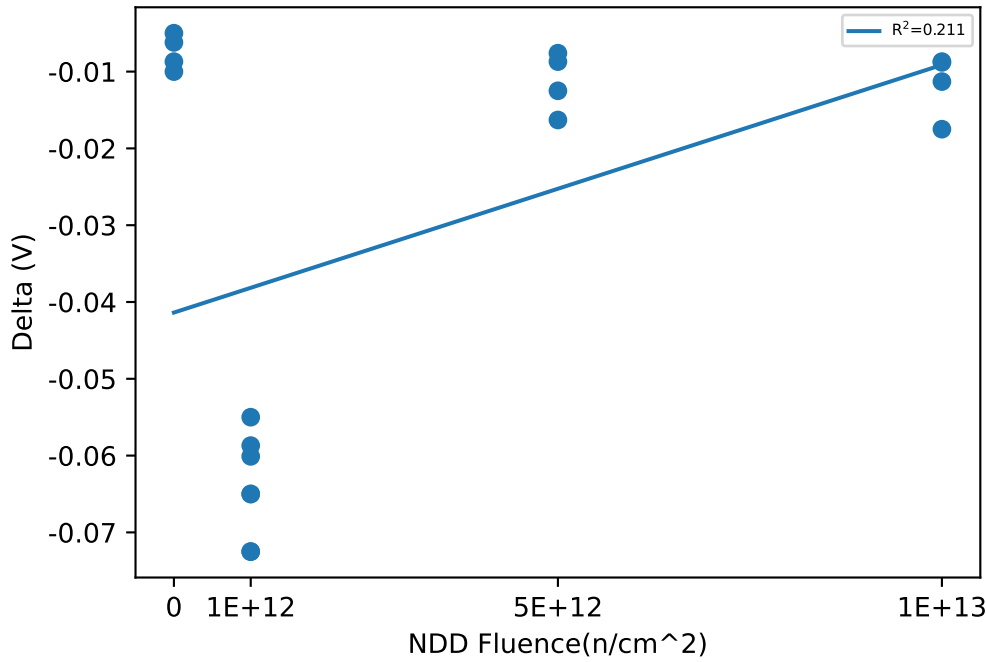
NDD vs Result Stats



Test Results (Upper Limit = 2.0 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.7892	0.7167	-0.0725
171	1e+12	NDD	0.7817	0.723	-0.0587
269	1e+12	NDD	0.7667	0.7117	-0.055
337	1e+12	NDD	0.7755	0.7154	-0.0601
357	5e+12	NDD	0.758	0.7417	-0.0163
361	5e+12	NDD	0.723	0.7154	-0.0076
373	5e+12	NDD	0.7342	0.7255	-0.0087
412	5e+12	NDD	0.7342	0.7217	-0.0125
470	1e+13	NDD	0.7417	0.7242	-0.0175
498	1e+13	NDD	0.7192	0.7104	-0.0088
503	1e+13	NDD	0.7342	0.7255	-0.0087
540	1e+13	NDD	0.733	0.7217	-0.0113
553	0	CORRELATION	0.7567	0.7467	-0.01
586	0	CORRELATION	0.7392	0.7342	-0.005
634	0	CORRELATION	0.7317	0.7255	-0.0062
635	0	CORRELATION	0.7367	0.728	-0.0087

NDD vs Post - Pre Exposure Delta

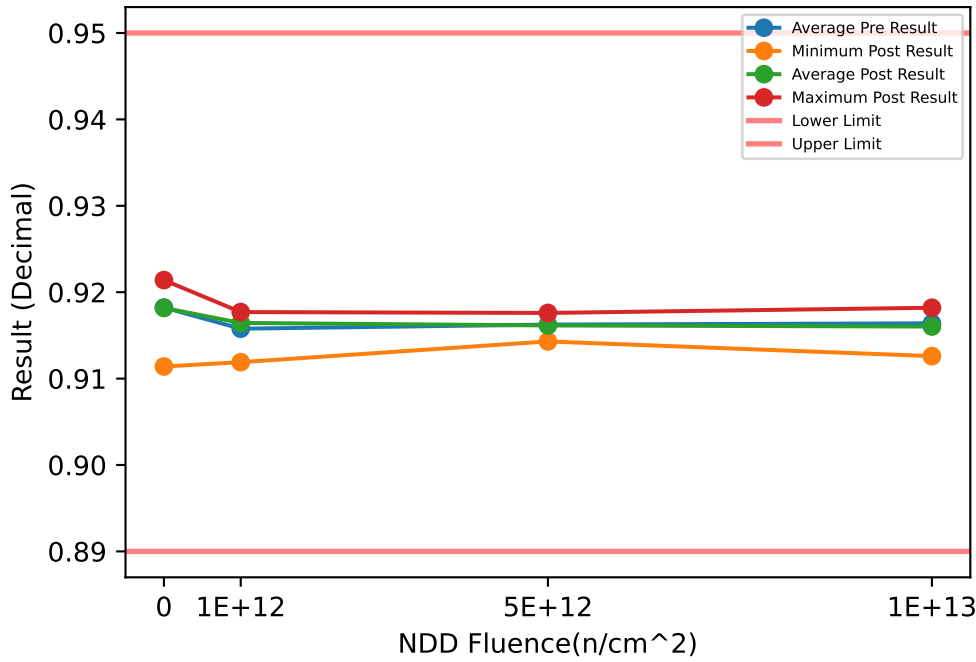


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7317	0.74108	0.7567	0.010873	0.7255	0.7336	0.7467	0.0094682	-0.01	-0.007475	-0.005	0.0022824
1e+12	0.7667	0.77828	0.7892	0.0095353	0.7117	0.7167	0.723	0.0047039	-0.0725	-0.061575	-0.055	0.0075945
5e+12	0.723	0.73735	0.758	0.014744	0.7154	0.72608	0.7417	0.011219	-0.0163	-0.011275	-0.0076	0.0039534
1e+13	0.7192	0.73202	0.7417	0.0093767	0.7104	0.72045	0.7255	0.0068831	-0.0175	-0.011575	-0.0087	0.0041291

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

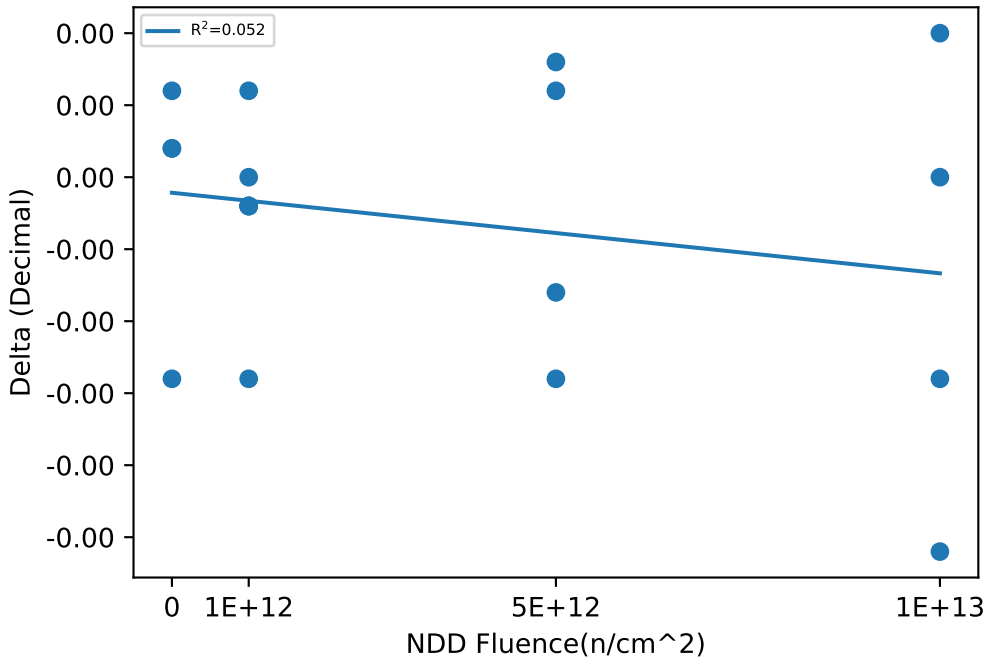
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.9176	0.9175	-0.0001
171	1e+12	NDD	0.9177	0.9177	0
269	1e+12	NDD	0.9126	0.9119	-0.0007
337	1e+12	NDD	0.9152	0.9155	0.0003
357	5e+12	NDD	0.9172	0.9176	0.0004
361	5e+12	NDD	0.9157	0.9153	-0.0004
373	5e+12	NDD	0.915	0.9143	-0.0007
412	5e+12	NDD	0.9171	0.9174	0.0003
470	1e+13	NDD	0.9168	0.9168	0
498	1e+13	NDD	0.9189	0.9182	-0.0007
503	1e+13	NDD	0.9139	0.9126	-0.0013
540	1e+13	NDD	0.916	0.9165	0.0005
553	0	CORRELATION	0.9208	0.9211	0.0003
586	0	CORRELATION	0.9213	0.9214	0.0001
634	0	CORRELATION	0.9195	0.9188	-0.0007
635	0	CORRELATION	0.9113	0.9114	0.0001

NDD vs Post - Pre Exposure Delta

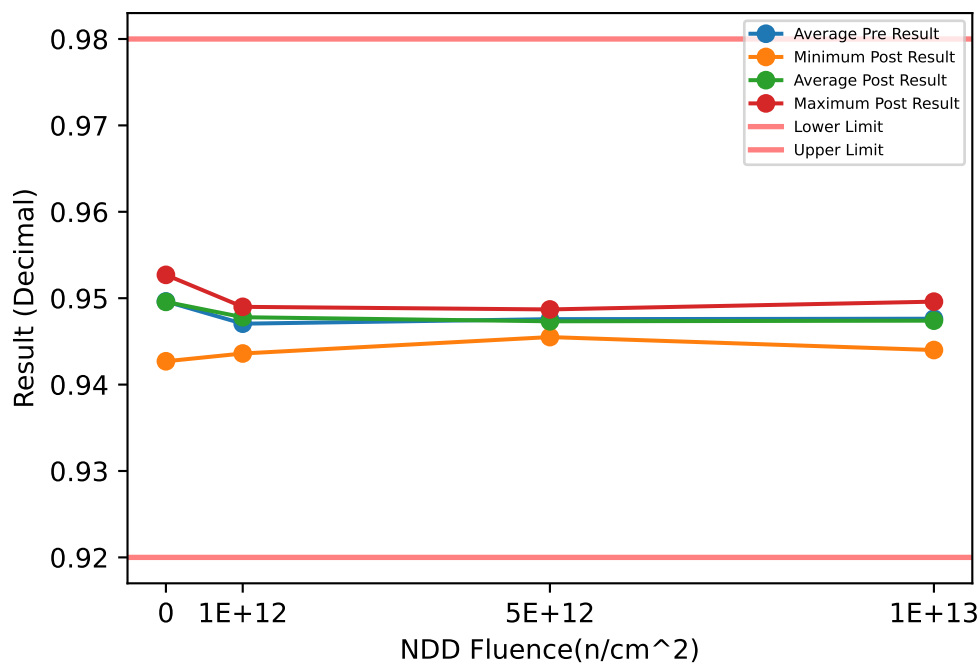


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9113	0.91822	0.9213	0.0046786	0.9114	0.91817	0.9214	0.0046636	-0.0007	-5e-05	0.0003	0.00044347
1e+12	0.9126	0.91578	0.9177	0.0024116	0.9119	0.91565	0.9177	0.0026901	-0.0007	-0.000125	0.0003	0.00041932
5e+12	0.915	0.91625	0.9172	0.0010786	0.9143	0.91615	0.9176	0.0016135	-0.0007	-0.0001	0.0004	0.00053541
1e+13	0.9139	0.9164	0.9189	0.0020672	0.9126	0.91602	0.9182	0.0024005	-0.0013	-0.000375	0.0005	0.00078899

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

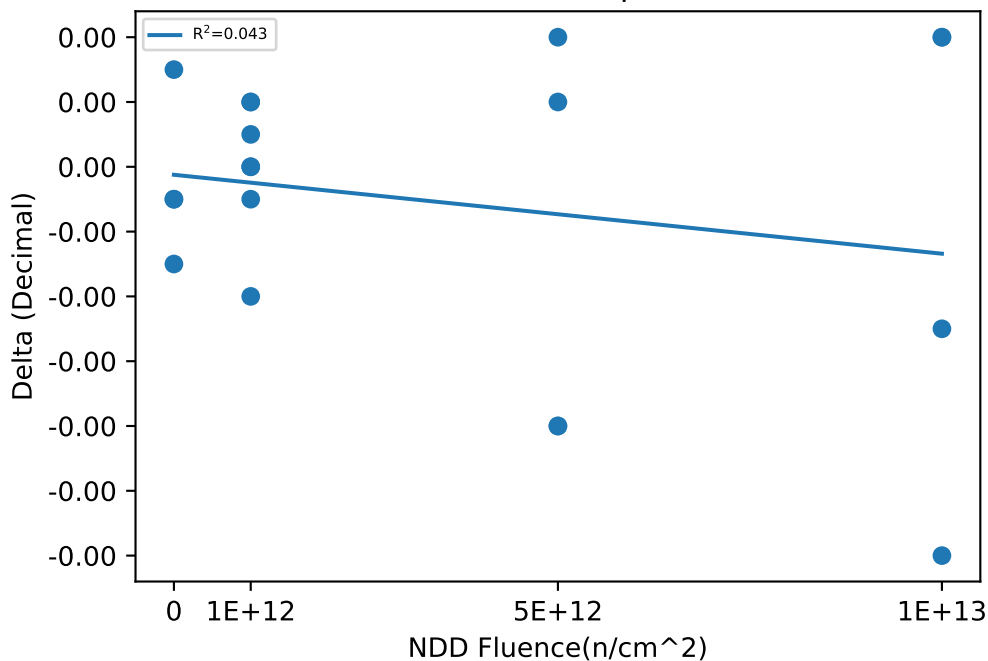
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.9488	0.949	0.0002
171	1e+12	NDD	0.9494	0.949	-0.0004
269	1e+12	NDD	0.9437	0.9436	-0.0001
337	1e+12	NDD	0.9463	0.9464	0.0001
357	5e+12	NDD	0.9485	0.9487	0.0002
361	5e+12	NDD	0.9473	0.9465	-0.0008
373	5e+12	NDD	0.9463	0.9455	-0.0008
412	5e+12	NDD	0.9482	0.9486	0.0004
470	1e+13	NDD	0.9479	0.9483	0.0004
498	1e+13	NDD	0.9501	0.9496	-0.0005
503	1e+13	NDD	0.9452	0.944	-0.0012
540	1e+13	NDD	0.9473	0.9477	0.0004
553	0	CORRELATION	0.9525	0.9524	-0.0001
586	0	CORRELATION	0.953	0.9527	-0.0003
634	0	CORRELATION	0.9506	0.9505	-0.0001
635	0	CORRELATION	0.9424	0.9427	0.0003

NDD vs Post - Pre Exposure Delta

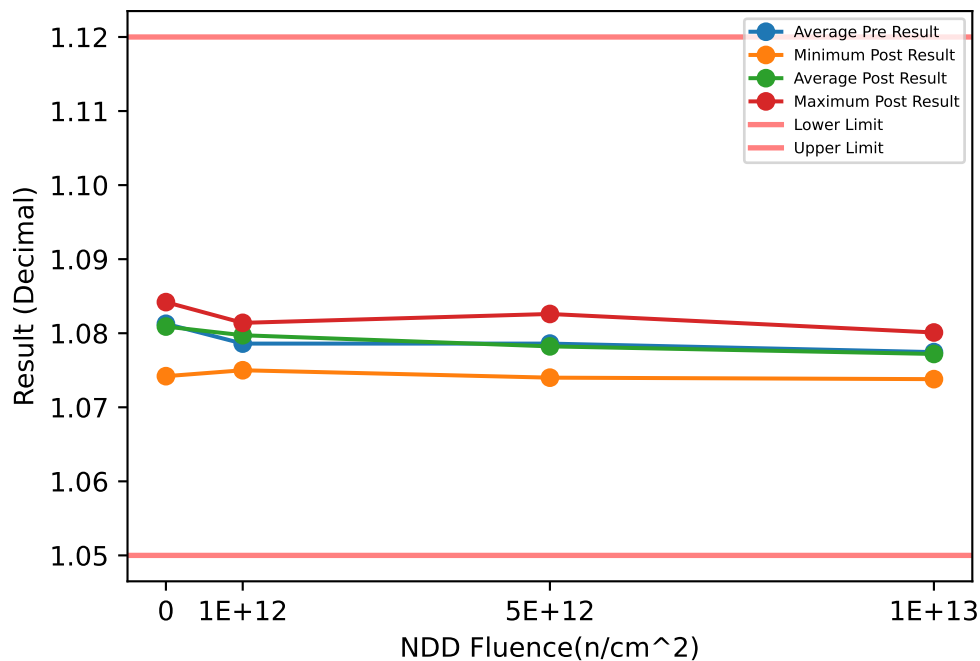


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9424	0.94962	0.953	0.0049264	0.9427	0.94958	0.9527	0.0046857	-0.0003	-5e-05	0.0003	0.00025166
1e+12	0.9437	0.94705	0.9494	0.0026058	0.9436	0.947	0.949	0.0025768	-0.0004	-5e-05	0.0002	0.00026458
5e+12	0.9463	0.94758	0.9485	0.00099121	0.9455	0.94732	0.9487	0.001584	-0.0008	-0.00025	0.0004	0.00064031
1e+13	0.9452	0.94762	0.9501	0.0020156	0.944	0.9474	0.9496	0.0024014	-0.0012	-0.000225	0.0004	0.00077621

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

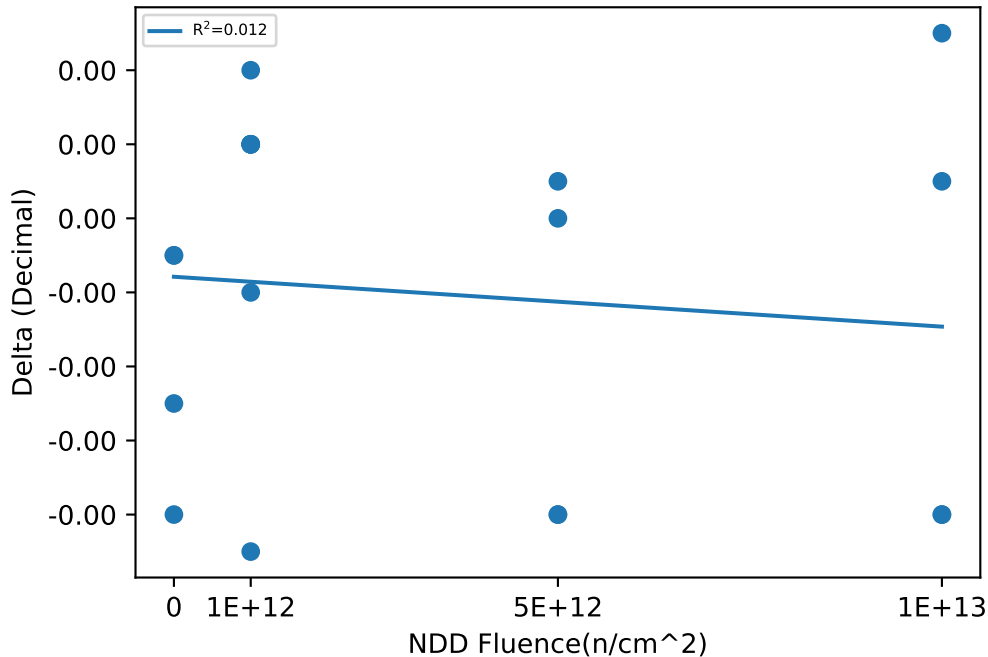
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0812	1.0814	0.0002
171	1e+12	NDD	1.0807	1.0805	-0.0002
269	1e+12	NDD	1.0759	1.075	-0.0009
337	1e+12	NDD	1.0766	1.077	0.0004
357	5e+12	NDD	1.0783	1.0783	0
361	5e+12	NDD	1.0788	1.078	-0.0008
373	5e+12	NDD	1.0748	1.074	-0.0008
412	5e+12	NDD	1.0825	1.0826	0.0001
470	1e+13	NDD	1.0779	1.078	0.0001
498	1e+13	NDD	1.0809	1.0801	-0.0008
503	1e+13	NDD	1.0746	1.0738	-0.0008
540	1e+13	NDD	1.0764	1.0769	0.0005
553	0	CORRELATION	1.0843	1.0842	-0.0001
586	0	CORRELATION	1.0828	1.0823	-0.0005
634	0	CORRELATION	1.0837	1.0829	-0.0008
635	0	CORRELATION	1.0743	1.0742	-0.0001

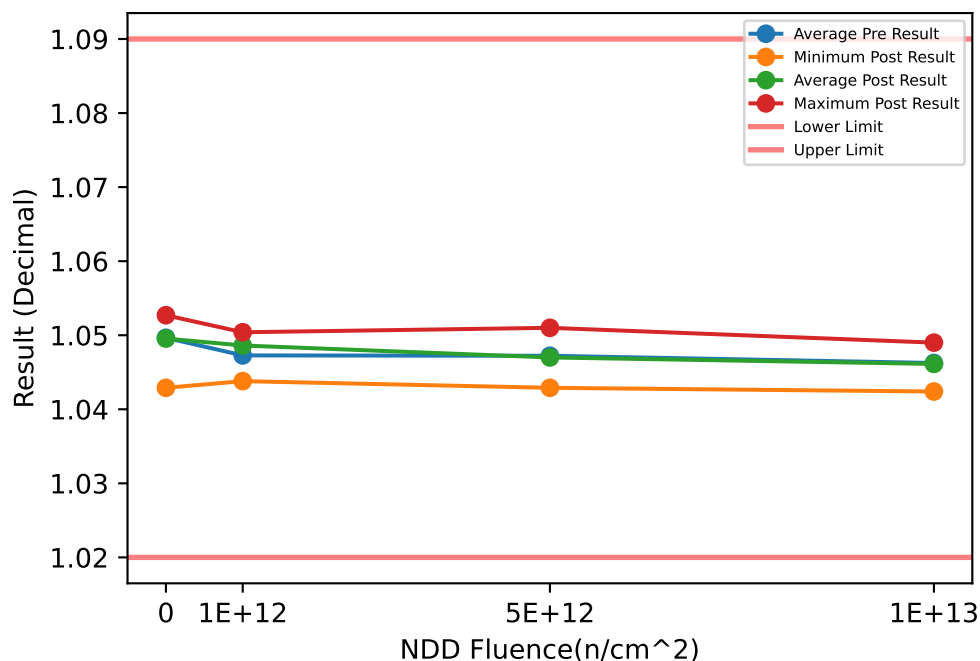
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0743	1.0813	1.0843	0.0046907	1.0742	1.0809	1.0842	0.0045365	-0.0008	-0.000375	-0.0001	0.00034034
1e+12	1.0759	1.0786	1.0812	0.0027362	1.075	1.0785	1.0814	0.0029949	-0.0009	-0.000125	0.0004	0.00057373
5e+12	1.0748	1.0786	1.0825	0.0031507	1.074	1.0782	1.0826	0.0035141	-0.0008	-0.000375	0.0001	0.00049244
1e+13	1.0746	1.0775	1.0809	0.0026665	1.0738	1.0772	1.0801	0.0026268	-0.0008	-0.00025	0.0005	0.00065574

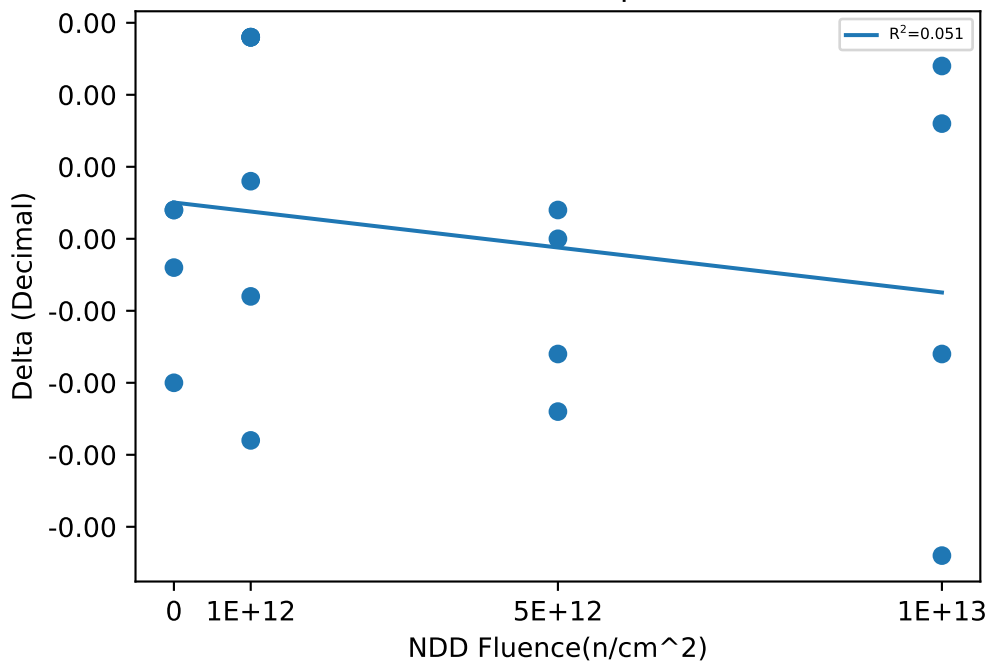
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0497	1.0504	0.0007
171	1e+12	NDD	1.0494	1.0492	-0.0002
269	1e+12	NDD	1.0445	1.0438	-0.0007
337	1e+12	NDD	1.0455	1.0457	0.0002
357	5e+12	NDD	1.0471	1.0472	0.0001
361	5e+12	NDD	1.0473	1.0469	-0.0004
373	5e+12	NDD	1.0435	1.0429	-0.0006
412	5e+12	NDD	1.051	1.051	0
470	1e+13	NDD	1.0468	1.0472	0.0004
498	1e+13	NDD	1.0494	1.049	-0.0004
503	1e+13	NDD	1.0435	1.0424	-0.0011
540	1e+13	NDD	1.0453	1.0459	0.0006
553	0	CORRELATION	1.0526	1.0527	0.0001
586	0	CORRELATION	1.0513	1.0512	-0.0001
634	0	CORRELATION	1.0519	1.0514	-0.0005
635	0	CORRELATION	1.0428	1.0429	0.0001

NDD vs Post - Pre Exposure Delta

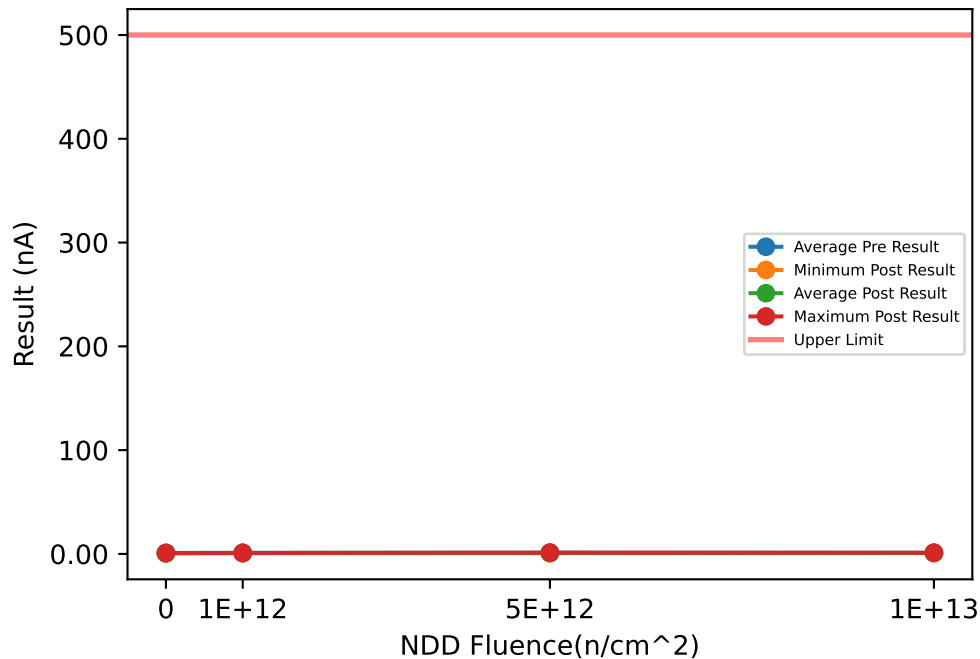


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0428	1.0496	1.0526	0.0045975	1.0429	1.0495	1.0527	0.0044829	-0.0005	-0.0001	0.0001	0.00028284
1e+12	1.0445	1.0473	1.0497	0.0026613	1.0438	1.0473	1.0504	0.0030566	-0.0007	-5.5511e-17	0.0007	0.00059442
5e+12	1.0435	1.0472	1.051	0.0030631	1.0429	1.047	1.051	0.0033096	-0.0006	-0.000225	0.0001	0.0003304
1e+13	1.0435	1.0463	1.0494	0.002496	1.0424	1.0461	1.049	0.0027897	-0.0011	-0.000125	0.0006	0.00078049

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

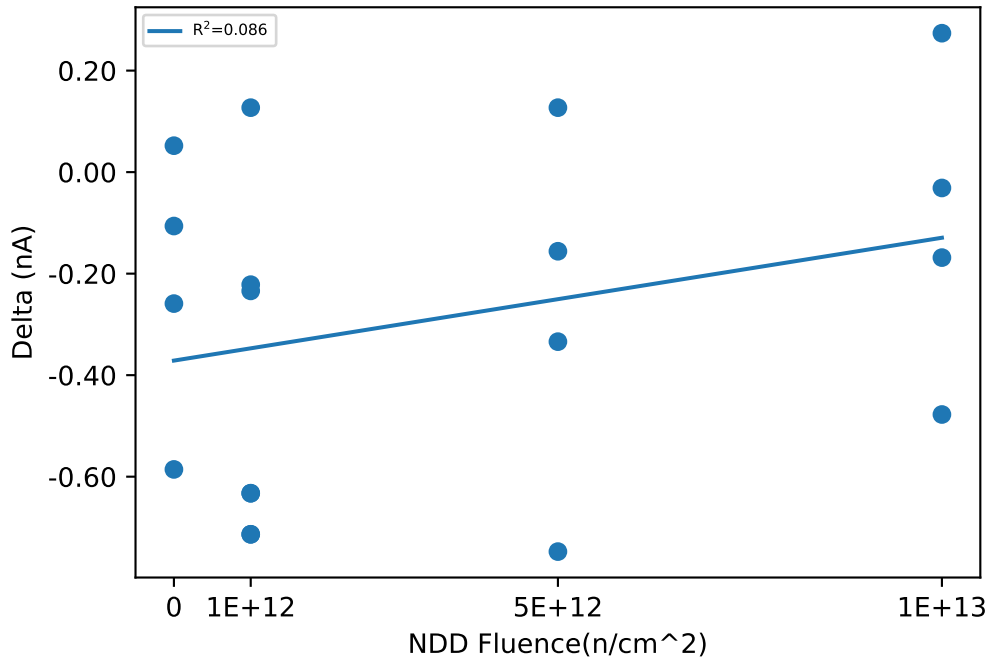
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.4805	0.767	-0.7135
171	1e+12	NDD	1.0127	0.791	-0.2217
269	1e+12	NDD	0.6388	0.7658	0.127
337	1e+12	NDD	1.1559	0.9219	-0.234
357	5e+12	NDD	1.4461	0.6985	-0.7476
361	5e+12	NDD	1.125	0.791	-0.334
373	5e+12	NDD	0.6763	0.8033	0.127
412	5e+12	NDD	1.3994	1.2435	-0.1559
470	1e+13	NDD	1.6022	1.1247	-0.4775
498	1e+13	NDD	0.9565	0.9253	-0.0312
503	1e+13	NDD	0.72	0.9937	0.2737
540	1e+13	NDD	0.9655	0.7971	-0.1684
553	0	CORRELATION	1.418	0.8323	-0.5857
586	0	CORRELATION	0.9846	0.8784	-0.1062
634	0	CORRELATION	0.6856	0.7377	0.0521
635	0	CORRELATION	0.7595	0.5005	-0.259

NDD vs Post - Pre Exposure Delta

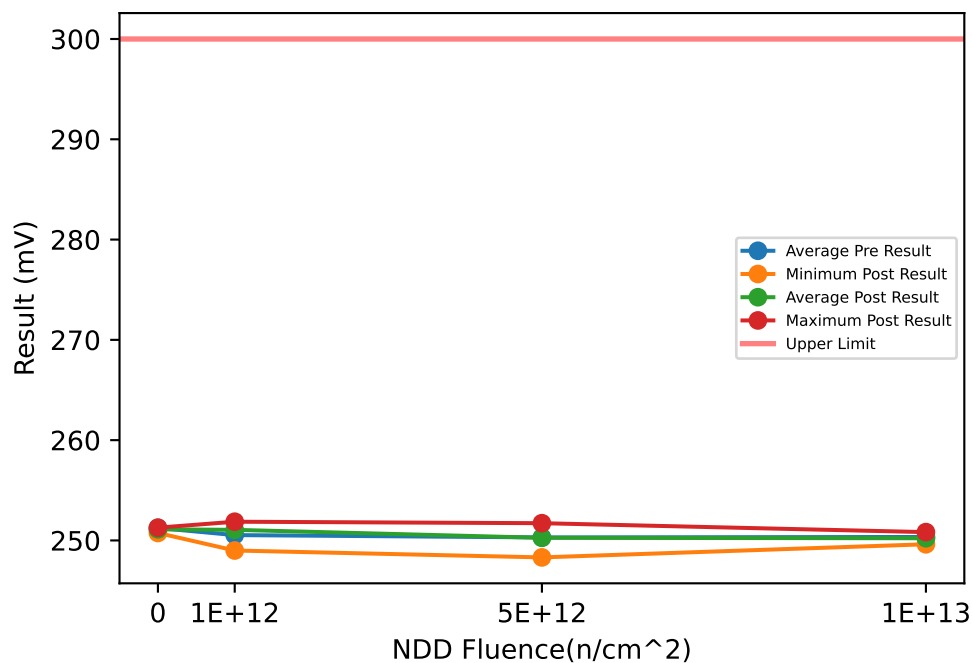


Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6856	0.96192	1.418	0.32957	0.5005	0.73723	0.8784	0.16833	-0.5857	-0.2247	0.0521	0.27213
1e+12	0.6388	1.072	1.4805	0.34885	0.7658	0.81143	0.9219	0.074559	-0.7135	-0.26055	0.127	0.34524
5e+12	0.6763	1.1617	1.4461	0.35324	0.6985	0.88408	1.2435	0.24414	-0.7476	-0.27762	0.127	0.36633
1e+13	0.72	1.0611	1.6022	0.37825	0.7971	0.9602	1.1247	0.13663	-0.4775	-0.10085	0.2737	0.31175

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

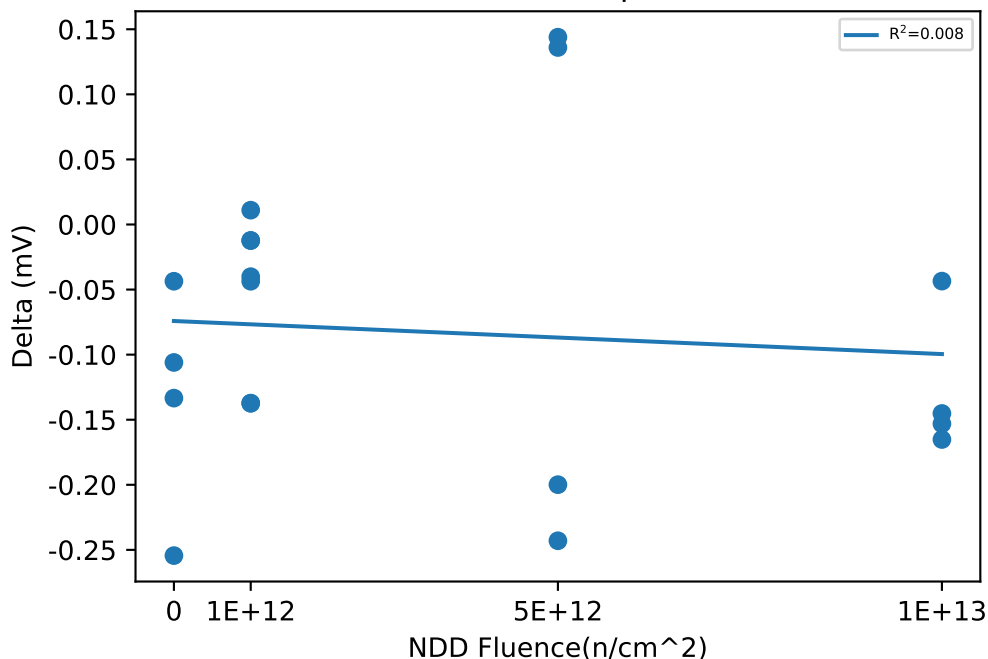
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	251.88	251.74	-0.1373
171	1e+12	NDD	250.38	250.34	-0.0401
269	1e+12	NDD	250.89	250.85	-0.0436
337	1e+12	NDD	248.99	249	0.011
357	5e+12	NDD	251.16	250.96	-0.1999
361	5e+12	NDD	250.3	250.06	-0.243
373	5e+12	NDD	251.58	251.72	0.1439
412	5e+12	NDD	248.17	248.31	0.136
470	1e+13	NDD	250.22	250.07	-0.1531
498	1e+13	NDD	249.78	249.62	-0.1652
503	1e+13	NDD	250.87	250.83	-0.0435
540	1e+13	NDD	250.5	250.35	-0.1452
553	0	CORRELATION	251.32	251.27	-0.0436
586	0	CORRELATION	251.39	251.26	-0.1334
634	0	CORRELATION	251.26	251.16	-0.106
635	0	CORRELATION	251	250.75	-0.2544

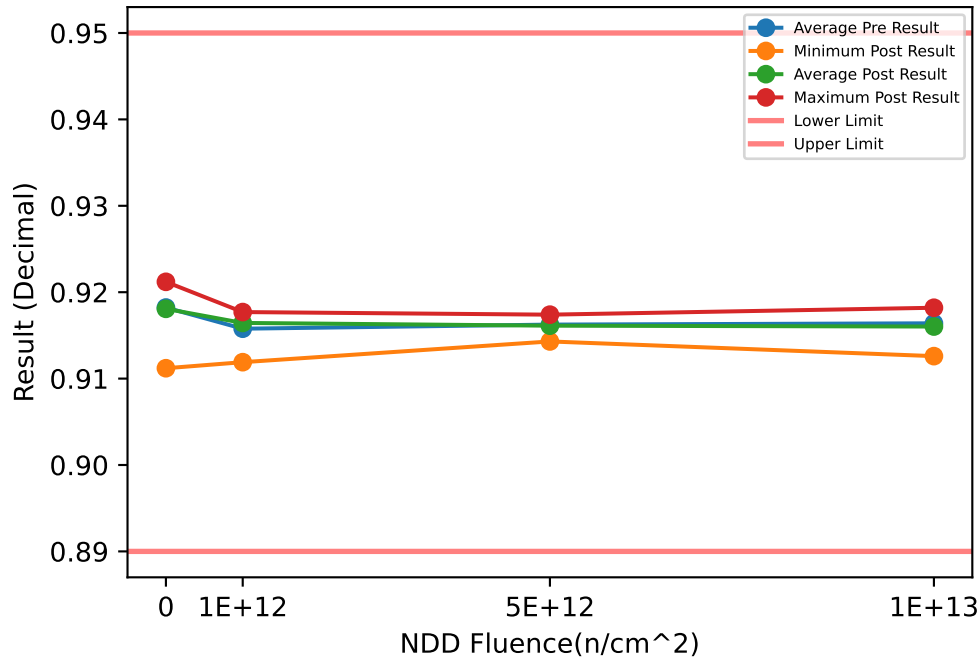
NDD vs Post - Pre Exposure Delta



Test Statistics (mV)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	251	251.24	251.39	0.17021	250.75	251.11	251.27	0.24736	-0.2544	-0.13435	-0.0436	0.088416
1e+12	248.99	250.53	251.88	1.2053	249	250.48	251.74	1.147	-0.1373	-0.0525	0.011	0.061796
5e+12	248.17	250.3	251.58	1.5157	248.31	250.26	251.72	1.4685	-0.243	-0.04075	0.1439	0.20942
1e+13	249.78	250.35	250.87	0.45959	249.62	250.22	250.83	0.50826	-0.1652	-0.12675	-0.0435	0.056106

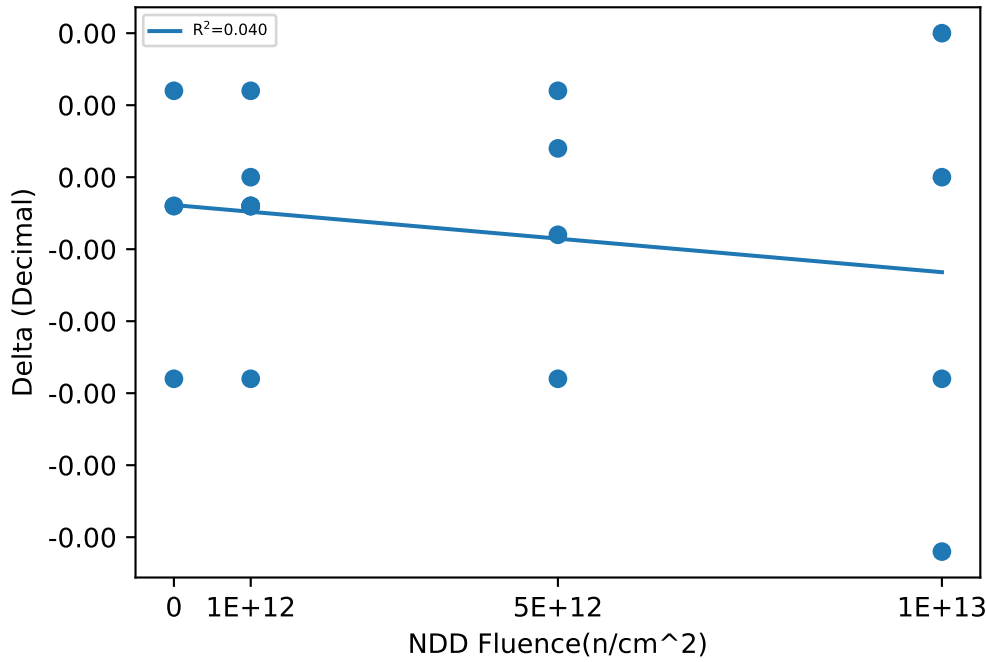
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.9176	0.9175	-0.0001
171	1e+12	NDD	0.9177	0.9177	0
269	1e+12	NDD	0.9126	0.9119	-0.0007
337	1e+12	NDD	0.9152	0.9155	0.0003
357	5e+12	NDD	0.9172	0.9173	0.0001
361	5e+12	NDD	0.9157	0.9155	-0.0002
373	5e+12	NDD	0.915	0.9143	-0.0007
412	5e+12	NDD	0.9171	0.9174	0.0003
470	1e+13	NDD	0.9168	0.9168	0
498	1e+13	NDD	0.9189	0.9182	-0.0007
503	1e+13	NDD	0.9139	0.9126	-0.0013
540	1e+13	NDD	0.916	0.9165	0.0005
553	0	CORRELATION	0.9208	0.9211	0.0003
586	0	CORRELATION	0.9213	0.9212	-0.0001
634	0	CORRELATION	0.9195	0.9188	-0.0007
635	0	CORRELATION	0.9113	0.9112	-0.0001

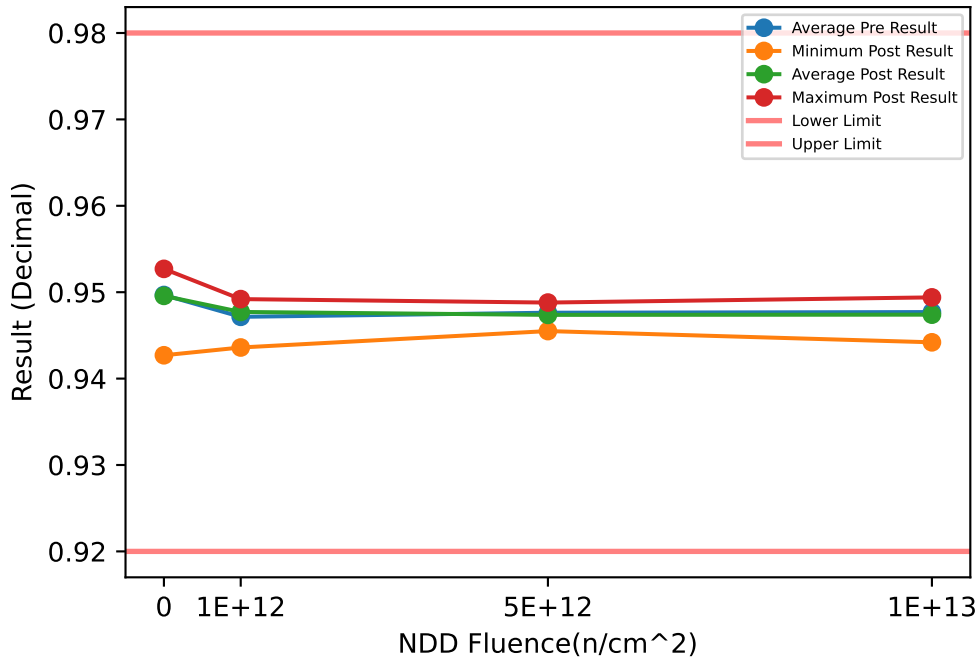
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9113	0.91822	0.9213	0.0046786	0.9112	0.91807	0.9212	0.0047155	-0.0007	-0.00015	0.0003	0.00041231
1e+12	0.9126	0.91578	0.9177	0.0024116	0.9119	0.91565	0.9177	0.0026901	-0.0007	-0.000125	0.0003	0.00041932
5e+12	0.915	0.91625	0.9172	0.0010786	0.9143	0.91612	0.9174	0.0014975	-0.0007	-0.000125	0.0003	0.00043493
1e+13	0.9139	0.9164	0.9189	0.0020672	0.9126	0.91602	0.9182	0.0024005	-0.0013	-0.000375	0.0005	0.00078899

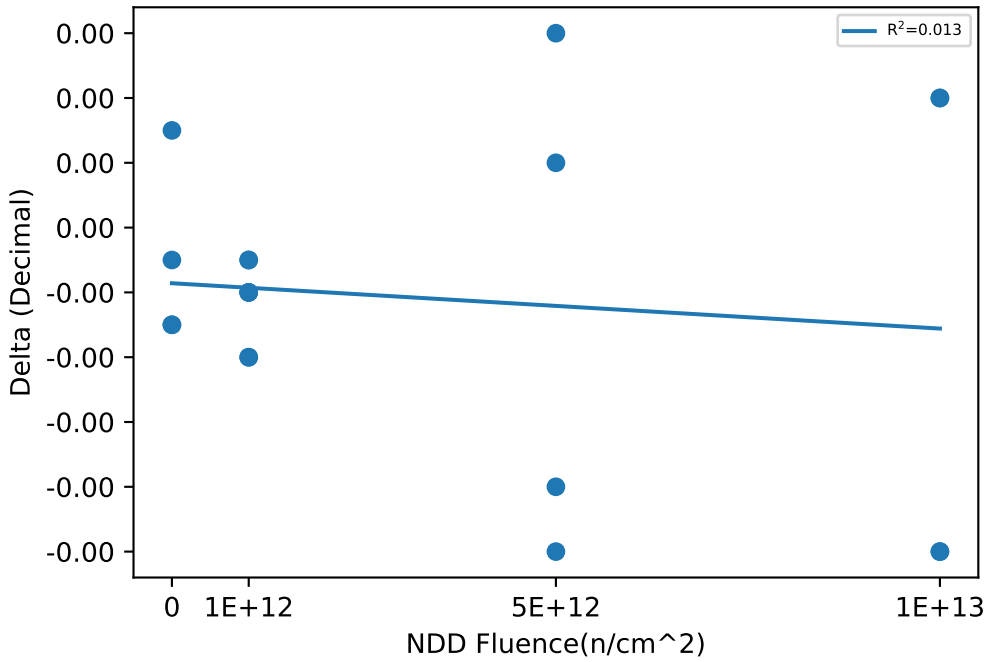
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.949	0.9488	-0.0002
171	1e+12	NDD	0.9494	0.9492	-0.0002
269	1e+12	NDD	0.9437	0.9436	-0.0001
337	1e+12	NDD	0.9465	0.9464	-0.0001
357	5e+12	NDD	0.9485	0.9487	0.0002
361	5e+12	NDD	0.9473	0.9465	-0.0008
373	5e+12	NDD	0.9465	0.9455	-0.001
412	5e+12	NDD	0.9482	0.9488	0.0006
470	1e+13	NDD	0.9479	0.9483	0.0004
498	1e+13	NDD	0.9504	0.9494	-0.001
503	1e+13	NDD	0.9452	0.9442	-0.001
540	1e+13	NDD	0.9473	0.9477	0.0004
553	0	CORRELATION	0.9525	0.9524	-0.0001
586	0	CORRELATION	0.953	0.9527	-0.0003
634	0	CORRELATION	0.9508	0.9505	-0.0003
635	0	CORRELATION	0.9424	0.9427	0.0003

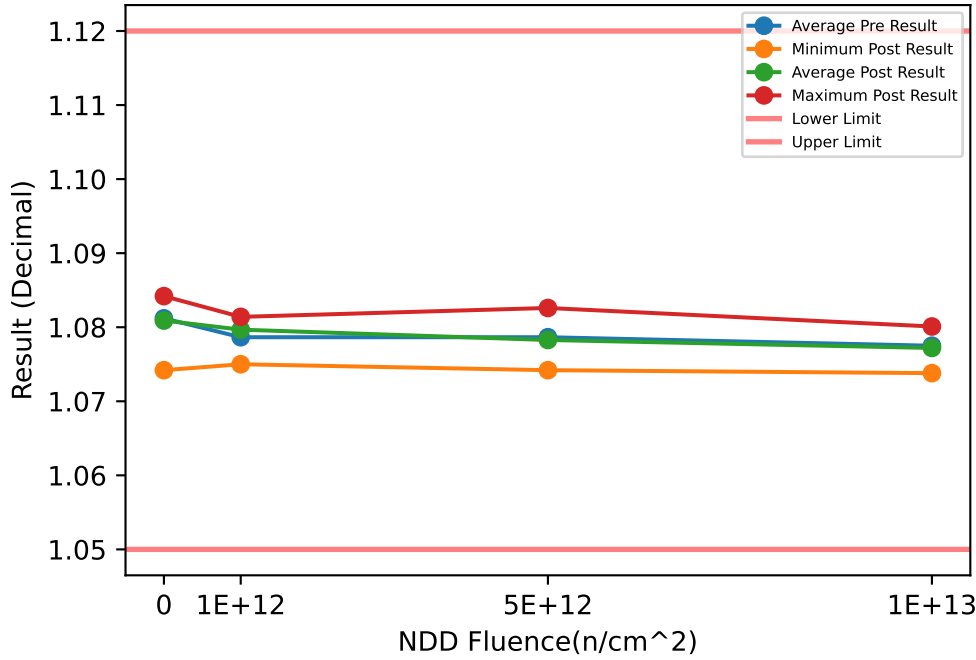
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9424	0.94968	0.953	0.0049406	0.9427	0.94958	0.9527	0.0046857	-0.0003	-0.0001	0.0003	0.00028284
1e+12	0.9437	0.94715	0.9494	0.0026338	0.9436	0.947	0.9492	0.002582	-0.0002	-0.00015	-0.0001	5.7735e-05
5e+12	0.9465	0.94763	0.9485	0.00090692	0.9455	0.94737	0.9488	0.0016399	-0.001	-0.00025	0.0006	0.00077244
1e+13	0.9452	0.9477	0.9504	0.0021401	0.9442	0.9474	0.9494	0.0022465	-0.001	-0.0003	0.0004	0.00080829

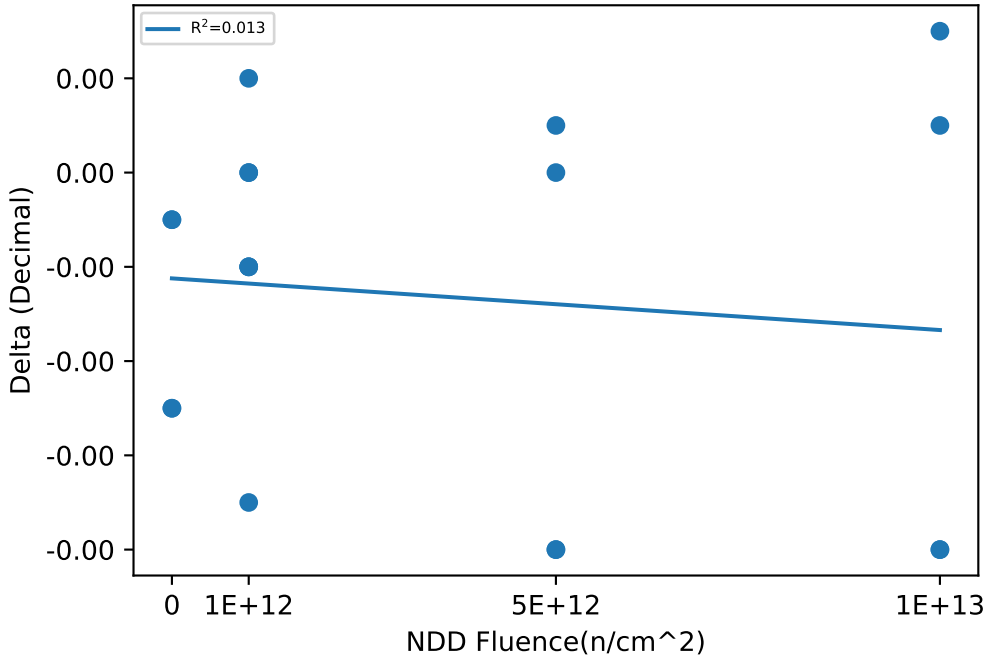
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0814	1.0814	0
171	1e+12	NDD	1.0807	1.0805	-0.0002
269	1e+12	NDD	1.0757	1.075	-0.0007
337	1e+12	NDD	1.0768	1.077	0.0002
357	5e+12	NDD	1.0783	1.0783	0
361	5e+12	NDD	1.0788	1.078	-0.0008
373	5e+12	NDD	1.075	1.0742	-0.0008
412	5e+12	NDD	1.0825	1.0826	0.0001
470	1e+13	NDD	1.0779	1.078	0.0001
498	1e+13	NDD	1.0809	1.0801	-0.0008
503	1e+13	NDD	1.0746	1.0738	-0.0008
540	1e+13	NDD	1.0766	1.0769	0.0003
553	0	CORRELATION	1.0843	1.0842	-0.0001
586	0	CORRELATION	1.0828	1.0823	-0.0005
634	0	CORRELATION	1.0834	1.0829	-0.0005
635	0	CORRELATION	1.0743	1.0742	-0.0001

NDD vs Post - Pre Exposure Delta

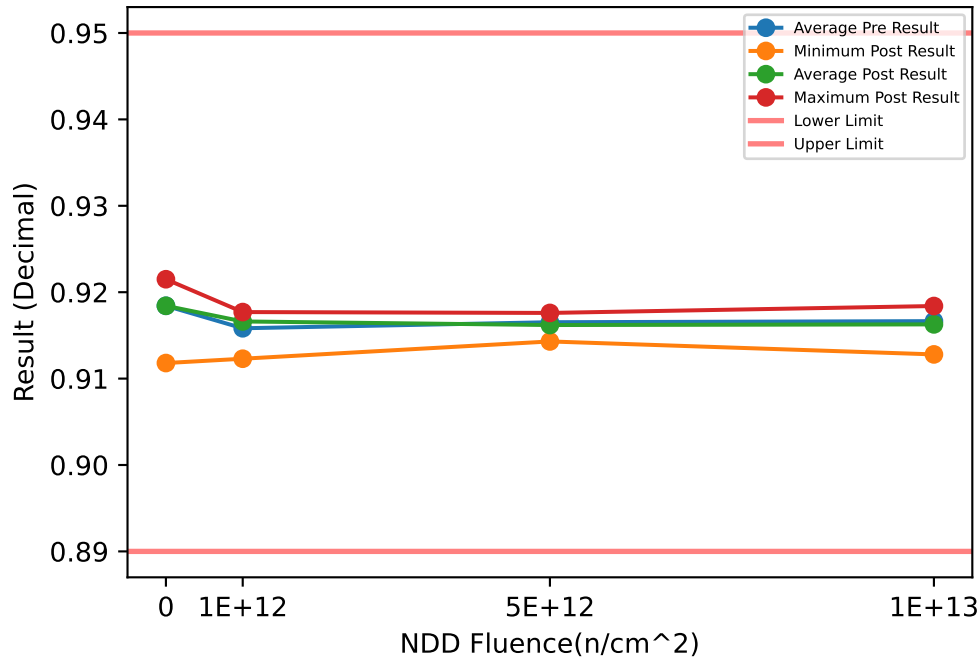


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0743	1.0812	1.0843	0.0046411	1.0742	1.0809	1.0842	0.0045365	-0.0005	-0.0003	-0.0001	0.00023094
1e+12	1.0757	1.0787	1.0814	0.0028219	1.075	1.0785	1.0814	0.0029949	-0.0007	-0.000175	0.0002	0.00038622
5e+12	1.075	1.0787	1.0825	0.0030708	1.0742	1.0783	1.0826	0.0034345	-0.0008	-0.000375	0.0001	0.00049244
1e+13	1.0746	1.0775	1.0809	0.002642	1.0738	1.0772	1.0801	0.0026268	-0.0008	-0.0003	0.0003	0.0005831

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

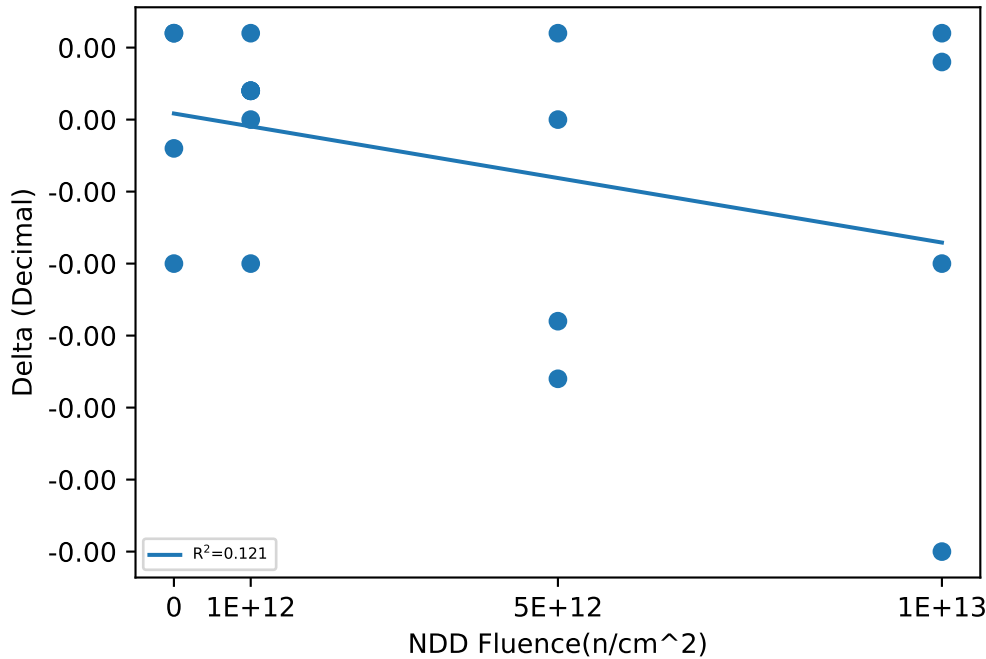
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.9176	0.9177	0.0001
171	1e+12	NDD	0.9177	0.9177	0
269	1e+12	NDD	0.9128	0.9123	-0.0005
337	1e+12	NDD	0.9152	0.9155	0.0003
357	5e+12	NDD	0.9176	0.9176	0
361	5e+12	NDD	0.9162	0.9155	-0.0007
373	5e+12	NDD	0.9152	0.9143	-0.0009
412	5e+12	NDD	0.9171	0.9174	0.0003
470	1e+13	NDD	0.917	0.9172	0.0002
498	1e+13	NDD	0.9189	0.9184	-0.0005
503	1e+13	NDD	0.9143	0.9128	-0.0015
540	1e+13	NDD	0.9164	0.9167	0.0003
553	0	CORRELATION	0.9212	0.9215	0.0003
586	0	CORRELATION	0.9215	0.9214	-0.0001
634	0	CORRELATION	0.9195	0.919	-0.0005
635	0	CORRELATION	0.9115	0.9118	0.0003

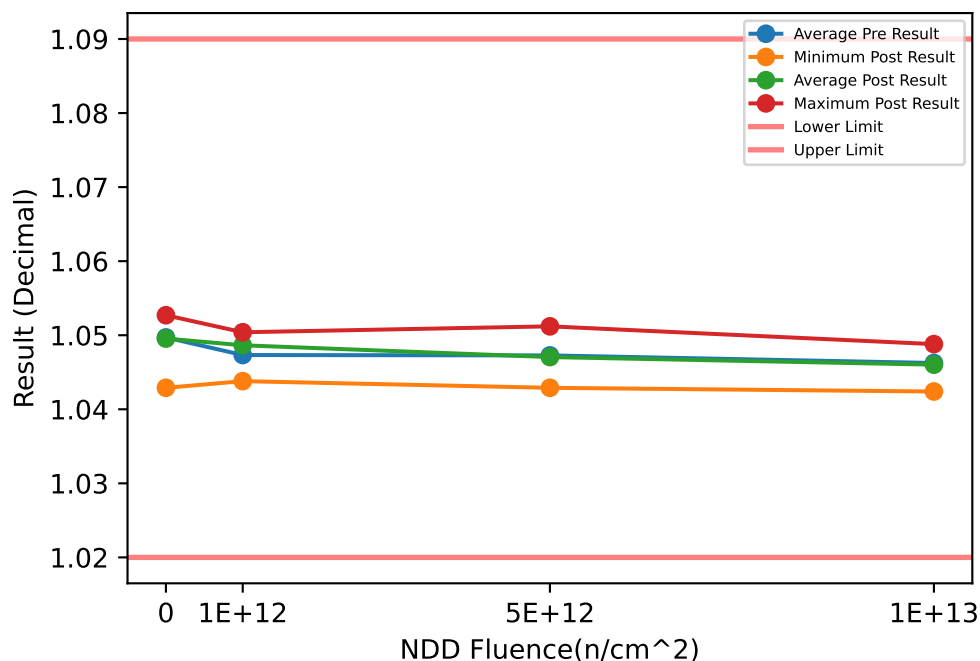
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9115	0.91843	0.9215	0.0046999	0.9118	0.91843	0.9215	0.0045654	-0.0005	2.7756e-17	0.0003	0.00038297
1e+12	0.9128	0.91583	0.9177	0.0023243	0.9123	0.9158	0.9177	0.0025534	-0.0005	-2.5e-05	0.0003	0.00034034
5e+12	0.9152	0.91653	0.9176	0.0010563	0.9143	0.9162	0.9176	0.0015811	-0.0009	-0.000325	0.0003	0.00056789
1e+13	0.9143	0.91665	0.9189	0.0018947	0.9128	0.91627	0.9184	0.002424	-0.0015	-0.000375	0.0003	0.00083016

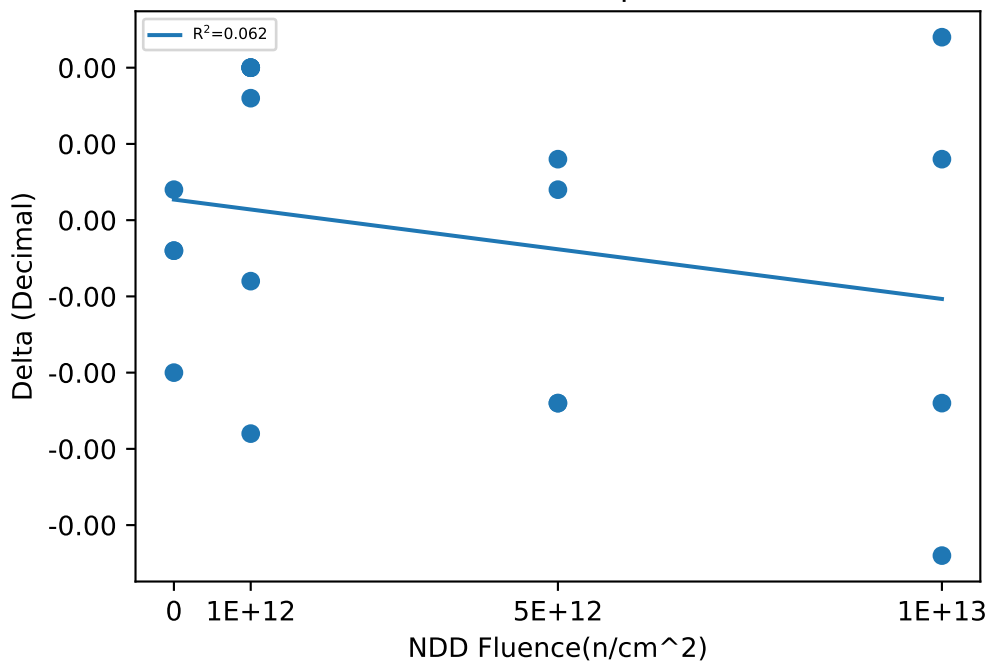
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0499	1.0504	0.0005
171	1e+12	NDD	1.0494	1.0492	-0.0002
269	1e+12	NDD	1.0445	1.0438	-0.0007
337	1e+12	NDD	1.0455	1.0459	0.0004
357	5e+12	NDD	1.0471	1.0472	0.0001
361	5e+12	NDD	1.0475	1.0469	-0.0006
373	5e+12	NDD	1.0435	1.0429	-0.0006
412	5e+12	NDD	1.051	1.0512	0.0002
470	1e+13	NDD	1.0468	1.047	0.0002
498	1e+13	NDD	1.0494	1.0488	-0.0006
503	1e+13	NDD	1.0435	1.0424	-0.0011
540	1e+13	NDD	1.0453	1.0459	0.0006
553	0	CORRELATION	1.0526	1.0527	0.0001
586	0	CORRELATION	1.0513	1.0512	-0.0001
634	0	CORRELATION	1.0519	1.0514	-0.0005
635	0	CORRELATION	1.043	1.0429	-0.0001

NDD vs Post - Pre Exposure Delta

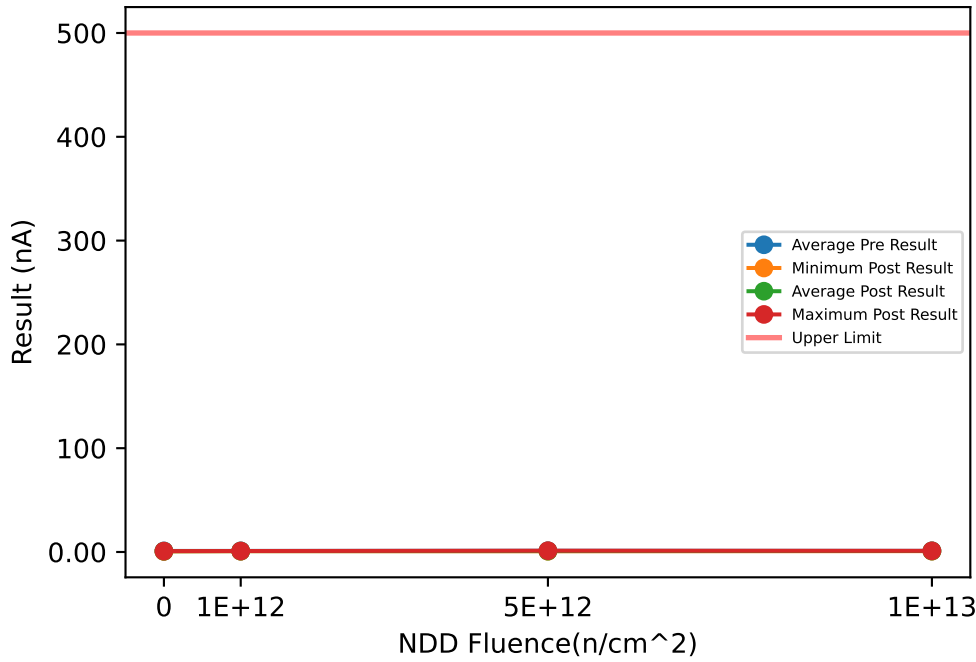


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.043	1.0497	1.0526	0.0044981	1.0429	1.0495	1.0527	0.0044829	-0.0005	-0.00015	0.0001	0.00025166
1e+12	1.0445	1.0473	1.0499	0.0027232	1.0438	1.0473	1.0504	0.0030237	-0.0007	-5.5511e-17	0.0005	0.00055976
5e+12	1.0435	1.0473	1.051	0.0030663	1.0429	1.0471	1.0512	0.0033907	-0.0006	-0.000225	0.0002	0.00043493
1e+13	1.0435	1.0463	1.0494	0.002496	1.0424	1.046	1.0488	0.0026961	-0.0011	-0.000225	0.0006	0.00076757

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

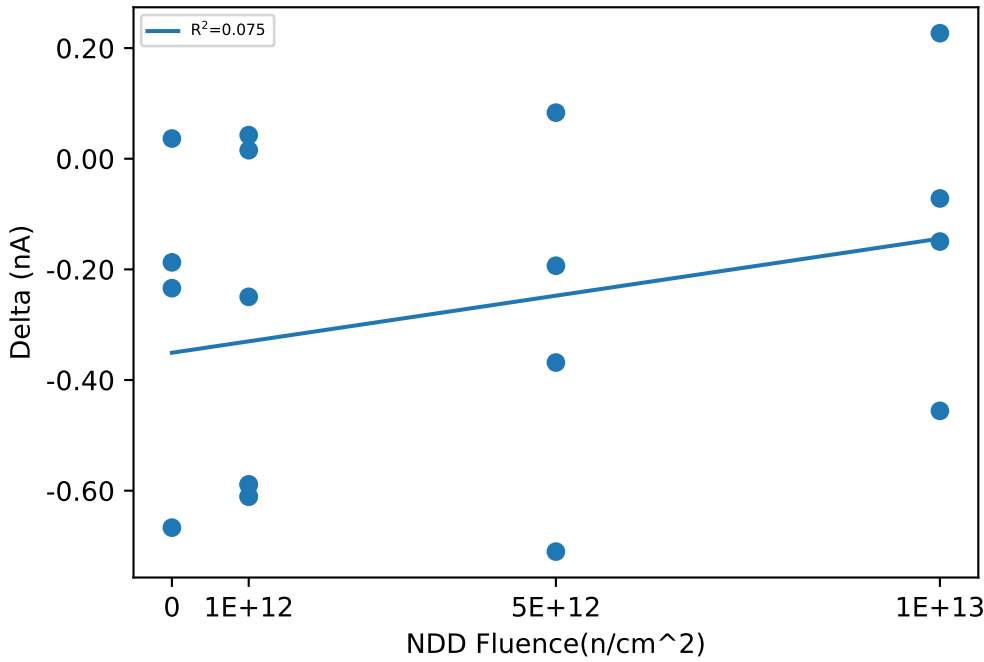
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.4305	0.8199	-0.6106
171	1e+12	NDD	0.838	0.8534	0.0154
269	1e+12	NDD	0.7044	0.7471	0.0427
337	1e+12	NDD	1.1996	0.95	-0.2496
357	5e+12	NDD	1.4149	0.7048	-0.7101
361	5e+12	NDD	1.0907	0.7223	-0.3684
373	5e+12	NDD	0.6919	0.7752	0.0833
412	5e+12	NDD	1.4587	1.2653	-0.1934
470	1e+13	NDD	1.5804	1.1247	-0.4557
498	1e+13	NDD	1.0065	0.9347	-0.0718
503	1e+13	NDD	0.7481	0.975	0.2269
540	1e+13	NDD	0.953	0.8033	-0.1497
553	0	CORRELATION	1.4742	0.8074	-0.6668
586	0	CORRELATION	1.047	0.8597	-0.1873
634	0	CORRELATION	0.7137	0.7502	0.0365
635	0	CORRELATION	0.8063	0.5723	-0.234

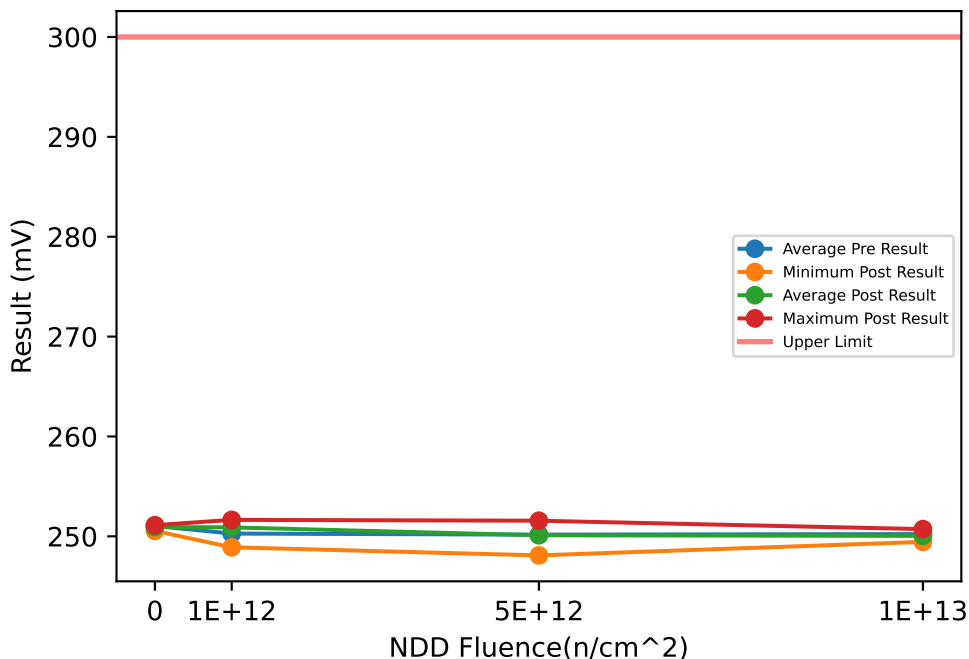
NDD vs Post - Pre Exposure Delta



Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7137	1.0103	1.4742	0.33968	0.5723	0.7474	0.8597	0.12501	-0.6668	-0.2629	0.0365	0.29401
1e+12	0.7044	1.0431	1.4305	0.33234	0.7471	0.8426	0.95	0.084236	-0.6106	-0.20053	0.0427	0.30351
5e+12	0.6919	1.1641	1.4587	0.35499	0.7048	0.8669	1.2653	0.26728	-0.7101	-0.29715	0.0833	0.33222
1e+13	0.7481	1.072	1.5804	0.35676	0.8033	0.95942	1.1247	0.13234	-0.4557	-0.11257	0.2269	0.28049

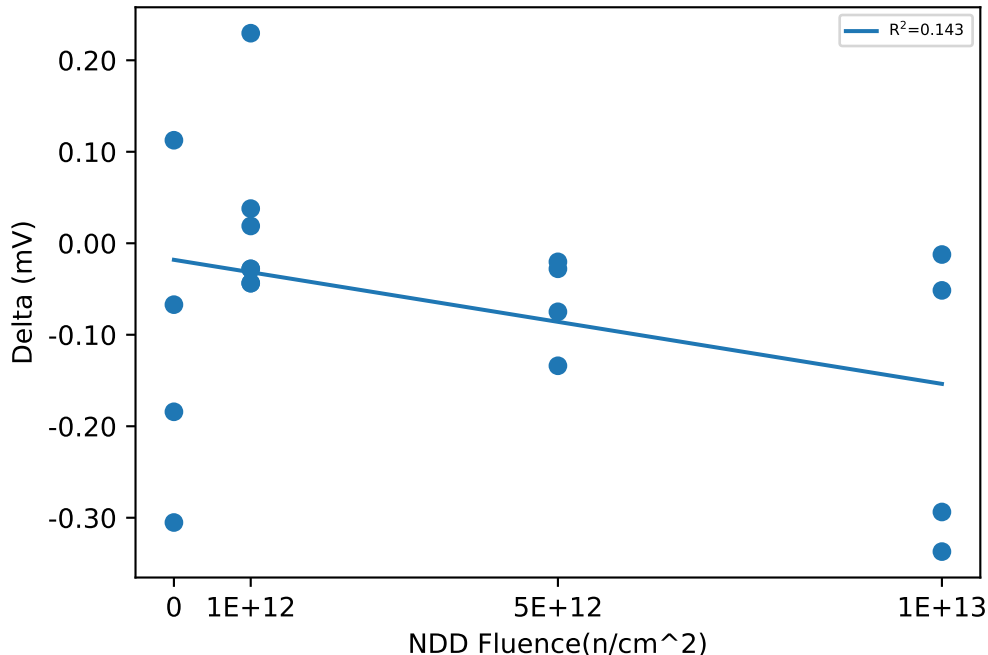
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	251.68	251.63	-0.0436
171	1e+12	NDD	250.08	250.12	0.0379
269	1e+12	NDD	250.67	250.69	0.0189
337	1e+12	NDD	248.67	248.9	0.2296
357	5e+12	NDD	250.91	250.84	-0.0749
361	5e+12	NDD	250.06	249.93	-0.1339
373	5e+12	NDD	251.59	251.56	-0.0279
412	5e+12	NDD	248.11	248.09	-0.0203
470	1e+13	NDD	250.11	249.82	-0.2937
498	1e+13	NDD	249.78	249.45	-0.337
503	1e+13	NDD	250.73	250.72	-0.0123
540	1e+13	NDD	250.25	250.2	-0.0515
553	0	CORRELATION	251.3	251.12	-0.1842
586	0	CORRELATION	251.39	251.09	-0.3052
634	0	CORRELATION	250.86	250.97	0.1126
635	0	CORRELATION	250.61	250.54	-0.0671

NDD vs Post - Pre Exposure Delta

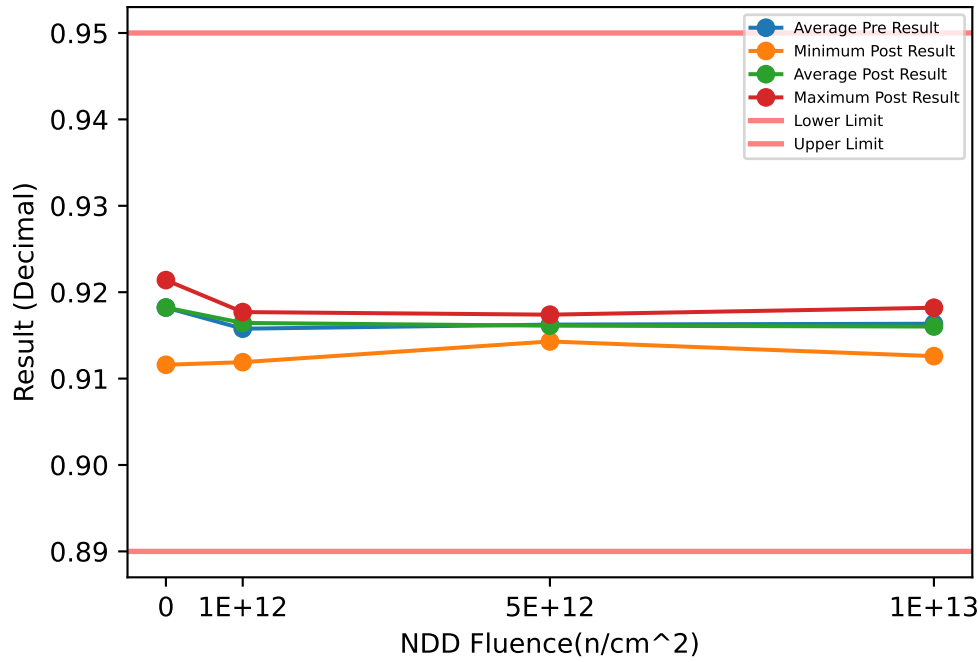


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	250.61	251.04	251.39	0.36966	250.54	250.93	251.12	0.26527	-0.3052	-0.11097	0.1126	0.17795
1e+12	248.67	250.27	251.68	1.2548	248.9	250.34	251.63	1.1412	-0.0436	0.0607	0.2296	0.11786
5e+12	248.11	250.17	251.59	1.5079	248.09	250.11	251.56	1.5001	-0.1339	-0.06425	-0.0203	0.052337
1e+13	249.78	250.22	250.73	0.39412	249.45	250.05	250.72	0.54438	-0.337	-0.17363	-0.0123	0.16538

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

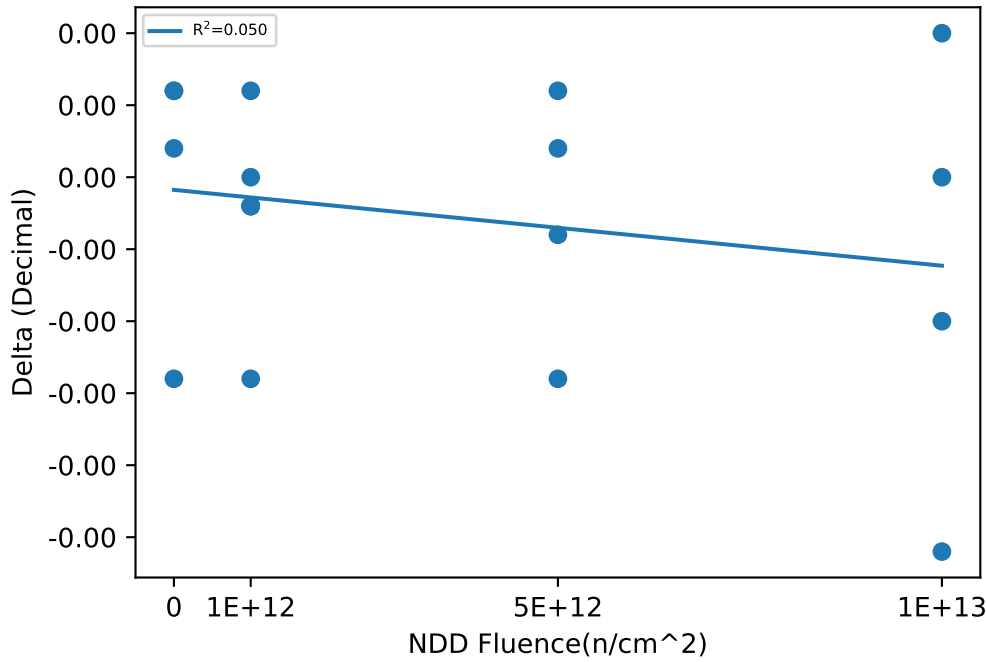
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.9176	0.9175	-0.0001
171	1e+12	NDD	0.9177	0.9177	0
269	1e+12	NDD	0.9126	0.9119	-0.0007
337	1e+12	NDD	0.9152	0.9155	0.0003
357	5e+12	NDD	0.9172	0.9173	0.0001
361	5e+12	NDD	0.9157	0.9155	-0.0002
373	5e+12	NDD	0.915	0.9143	-0.0007
412	5e+12	NDD	0.9171	0.9174	0.0003
470	1e+13	NDD	0.9168	0.9168	0
498	1e+13	NDD	0.9187	0.9182	-0.0005
503	1e+13	NDD	0.9139	0.9126	-0.0013
540	1e+13	NDD	0.916	0.9165	0.0005
553	0	CORRELATION	0.9208	0.9211	0.0003
586	0	CORRELATION	0.9213	0.9214	0.0001
634	0	CORRELATION	0.9195	0.9188	-0.0007
635	0	CORRELATION	0.9113	0.9116	0.0003

NDD vs Post - Pre Exposure Delta

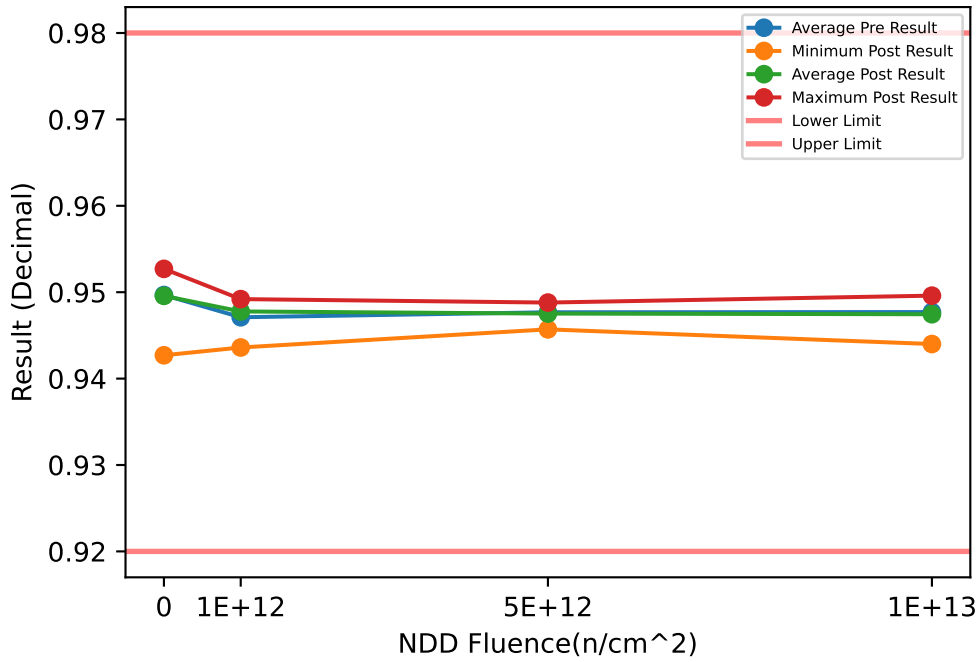


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9113	0.91822	0.9213	0.0046786	0.9116	0.91822	0.9214	0.0045668	-0.0007	0	0.0003	0.0004761
1e+12	0.9126	0.91578	0.9177	0.0024116	0.9119	0.91565	0.9177	0.0026901	-0.0007	-0.000125	0.0003	0.00041932
5e+12	0.915	0.91625	0.9172	0.0010786	0.9143	0.91612	0.9174	0.0014975	-0.0007	-0.000125	0.0003	0.00043493
1e+13	0.9139	0.91635	0.9187	0.0019875	0.9126	0.91602	0.9182	0.0024005	-0.0013	-0.000325	0.0005	0.00076757

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

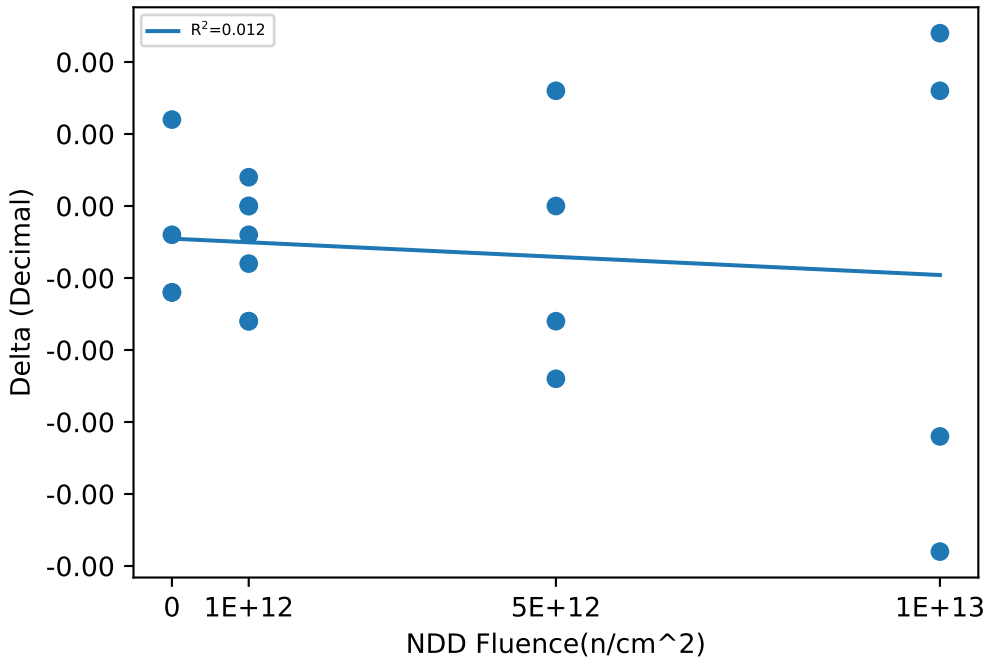
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.949	0.949	0
171	1e+12	NDD	0.9494	0.9492	-0.0002
269	1e+12	NDD	0.9437	0.9436	-0.0001
337	1e+12	NDD	0.9463	0.9464	0.0001
357	5e+12	NDD	0.9487	0.9487	0
361	5e+12	NDD	0.9473	0.9469	-0.0004
373	5e+12	NDD	0.9463	0.9457	-0.0006
412	5e+12	NDD	0.9484	0.9488	0.0004
470	1e+13	NDD	0.9479	0.9483	0.0004
498	1e+13	NDD	0.9504	0.9496	-0.0008
503	1e+13	NDD	0.9452	0.944	-0.0012
540	1e+13	NDD	0.9473	0.9479	0.0006
553	0	CORRELATION	0.9525	0.9524	-0.0001
586	0	CORRELATION	0.953	0.9527	-0.0003
634	0	CORRELATION	0.9508	0.9505	-0.0003
635	0	CORRELATION	0.9424	0.9427	0.0003

NDD vs Post - Pre Exposure Delta

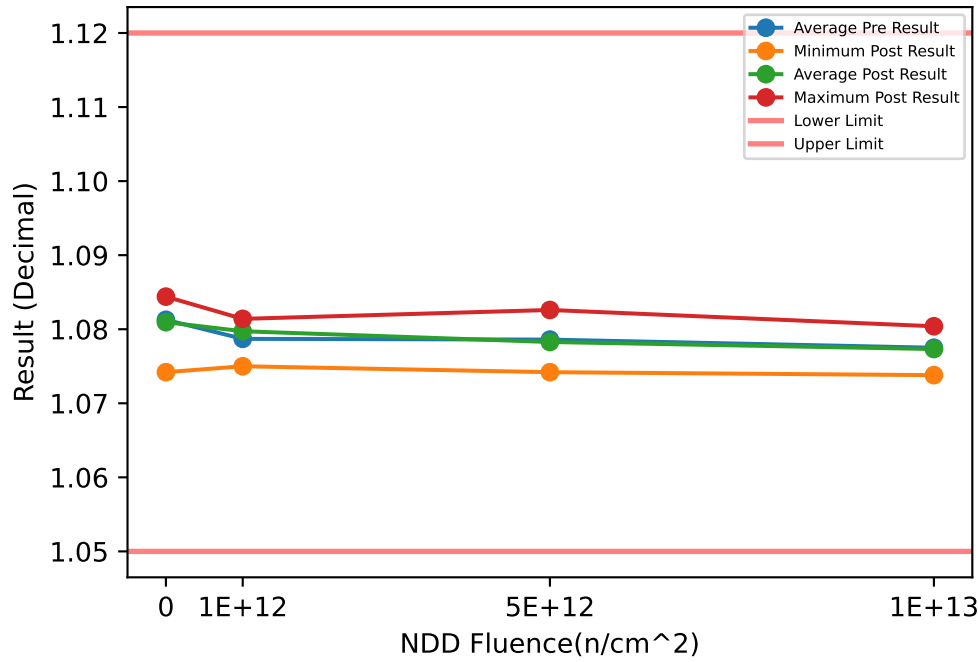


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9424	0.94968	0.953	0.0049406	0.9427	0.94958	0.9527	0.0046857	-0.0003	-0.0001	0.0003	0.00028284
1e+12	0.9437	0.9471	0.9494	0.002652	0.9436	0.94705	0.9492	0.00263	-0.0002	-5e-05	0.0001	0.0001291
5e+12	0.9463	0.94768	0.9487	0.0010966	0.9457	0.94752	0.9488	0.0014975	-0.0006	-0.00015	0.0004	0.00044347
1e+13	0.9452	0.9477	0.9504	0.0021401	0.944	0.94745	0.9496	0.0024118	-0.0012	-0.00025	0.0006	0.00088506

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

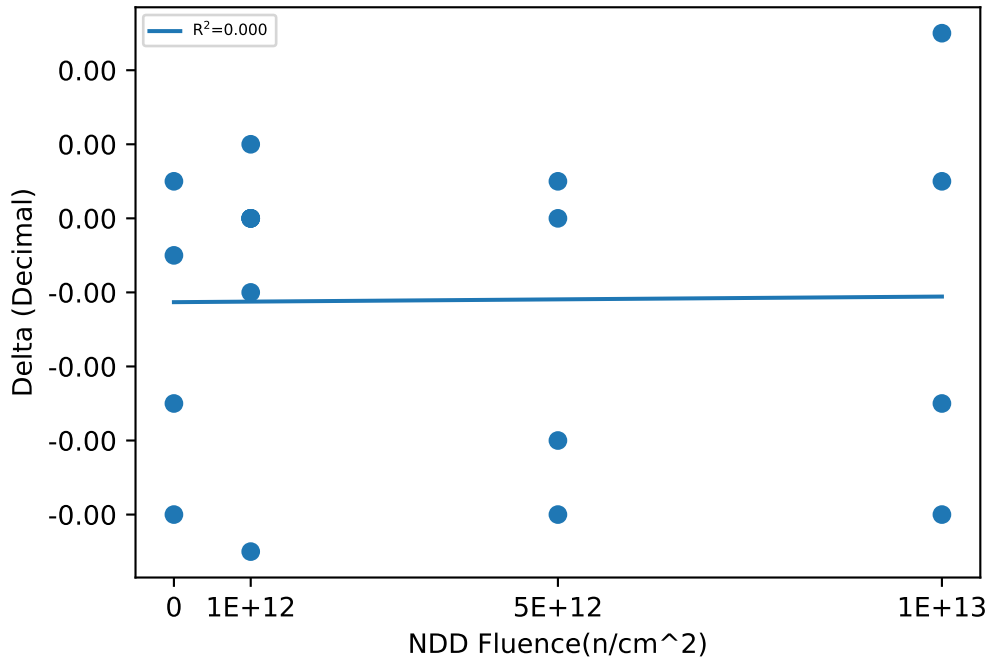
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0814	1.0814	0
171	1e+12	NDD	1.0807	1.0805	-0.0002
269	1e+12	NDD	1.0759	1.075	-0.0009
337	1e+12	NDD	1.0768	1.077	0.0002
357	5e+12	NDD	1.0783	1.0783	0
361	5e+12	NDD	1.0788	1.078	-0.0008
373	5e+12	NDD	1.0748	1.0742	-0.0006
412	5e+12	NDD	1.0825	1.0826	0.0001
470	1e+13	NDD	1.0779	1.078	0.0001
498	1e+13	NDD	1.0809	1.0804	-0.0005
503	1e+13	NDD	1.0746	1.0738	-0.0008
540	1e+13	NDD	1.0766	1.0771	0.0005
553	0	CORRELATION	1.0843	1.0844	0.0001
586	0	CORRELATION	1.0828	1.0823	-0.0005
634	0	CORRELATION	1.0837	1.0829	-0.0008
635	0	CORRELATION	1.0743	1.0742	-0.0001

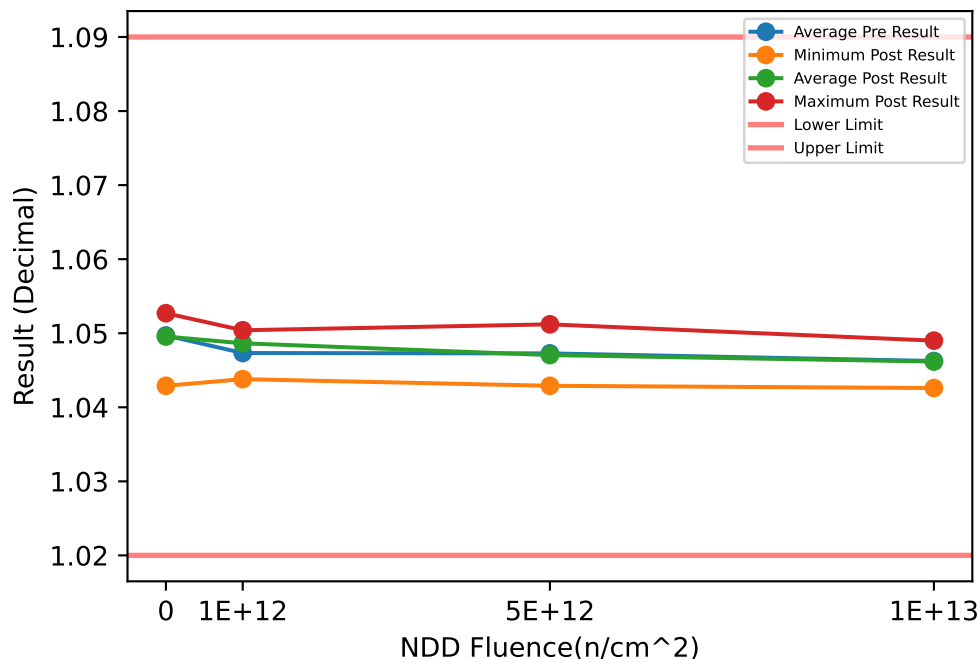
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0743	1.0813	1.0843	0.0046907	1.0742	1.081	1.0844	0.0045858	-0.0008	-0.000325	0.0001	0.00040311
1e+12	1.0759	1.0787	1.0814	0.0027532	1.075	1.0785	1.0814	0.0029949	-0.0009	-0.000225	0.0002	0.00047871
5e+12	1.0748	1.0786	1.0825	0.0031507	1.0742	1.0783	1.0826	0.0034345	-0.0008	-0.000325	0.0001	0.00044253
1e+13	1.0746	1.0775	1.0809	0.002642	1.0738	1.0773	1.0804	0.0027318	-0.0008	-0.000175	0.0005	0.00058523

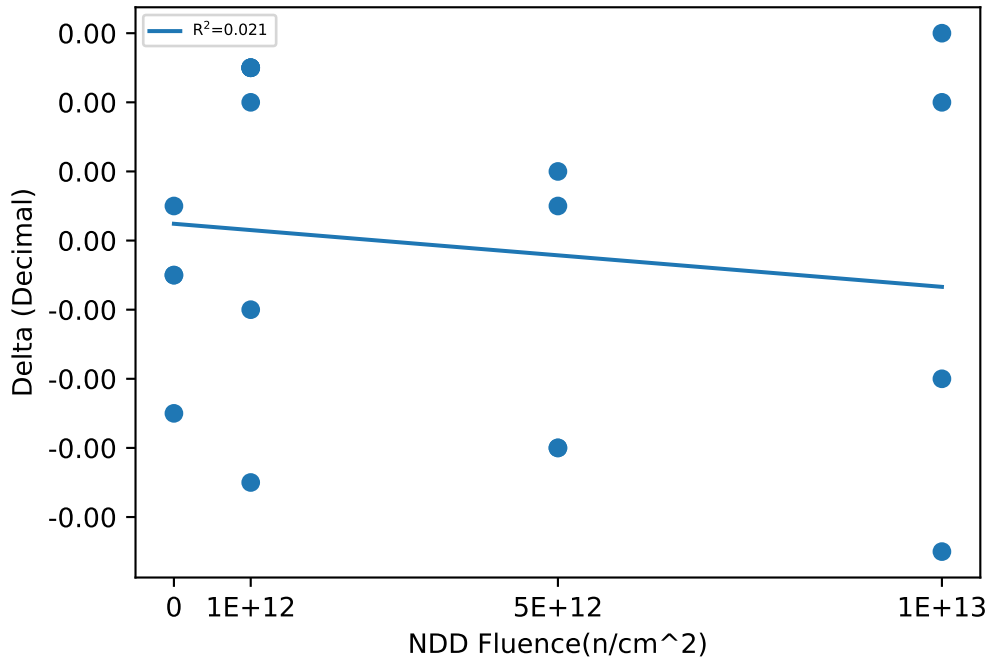
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0499	1.0504	0.0005
171	1e+12	NDD	1.0494	1.0492	-0.0002
269	1e+12	NDD	1.0445	1.0438	-0.0007
337	1e+12	NDD	1.0455	1.0459	0.0004
357	5e+12	NDD	1.0471	1.0472	0.0001
361	5e+12	NDD	1.0475	1.0469	-0.0006
373	5e+12	NDD	1.0435	1.0429	-0.0006
412	5e+12	NDD	1.051	1.0512	0.0002
470	1e+13	NDD	1.0468	1.0472	0.0004
498	1e+13	NDD	1.0494	1.049	-0.0004
503	1e+13	NDD	1.0435	1.0426	-0.0009
540	1e+13	NDD	1.0453	1.0459	0.0006
553	0	CORRELATION	1.0526	1.0527	0.0001
586	0	CORRELATION	1.0513	1.0512	-0.0001
634	0	CORRELATION	1.0519	1.0514	-0.0005
635	0	CORRELATION	1.043	1.0429	-0.0001

NDD vs Post - Pre Exposure Delta

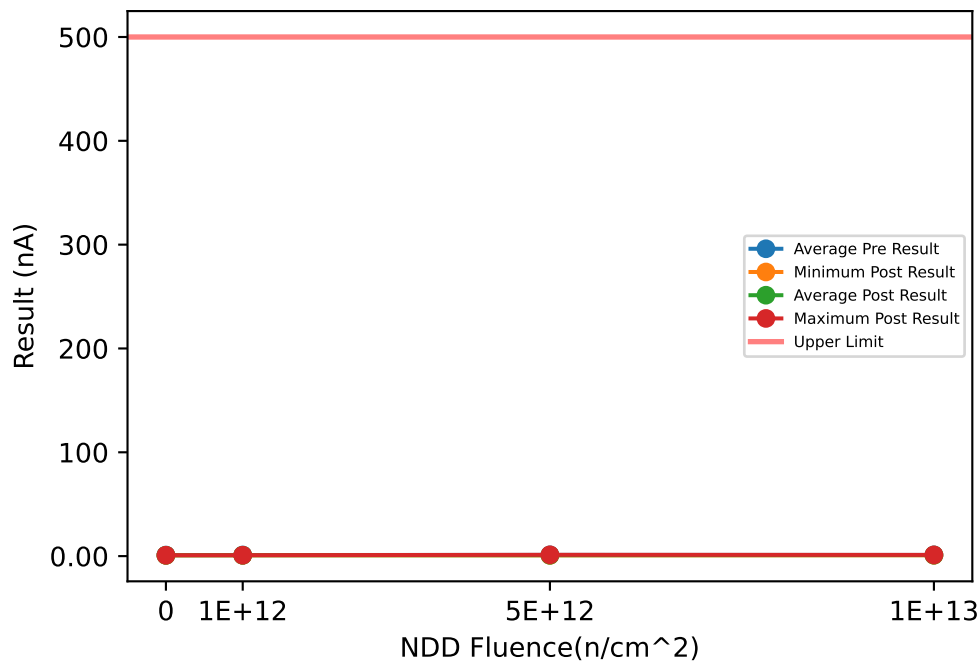


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.043	1.0497	1.0526	0.0044981	1.0429	1.0495	1.0527	0.0044829	-0.0005	-0.00015	0.0001	0.00025166
1e+12	1.0445	1.0473	1.0499	0.0027232	1.0438	1.0473	1.0504	0.0030237	-0.0007	-5.5511e-17	0.0005	0.00055976
5e+12	1.0435	1.0473	1.051	0.0030663	1.0429	1.0471	1.0512	0.0033907	-0.0006	-0.000225	0.0002	0.00043493
1e+13	1.0435	1.0463	1.0494	0.002496	1.0426	1.0462	1.049	0.0027011	-0.0009	-7.5e-05	0.0006	0.0006994

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

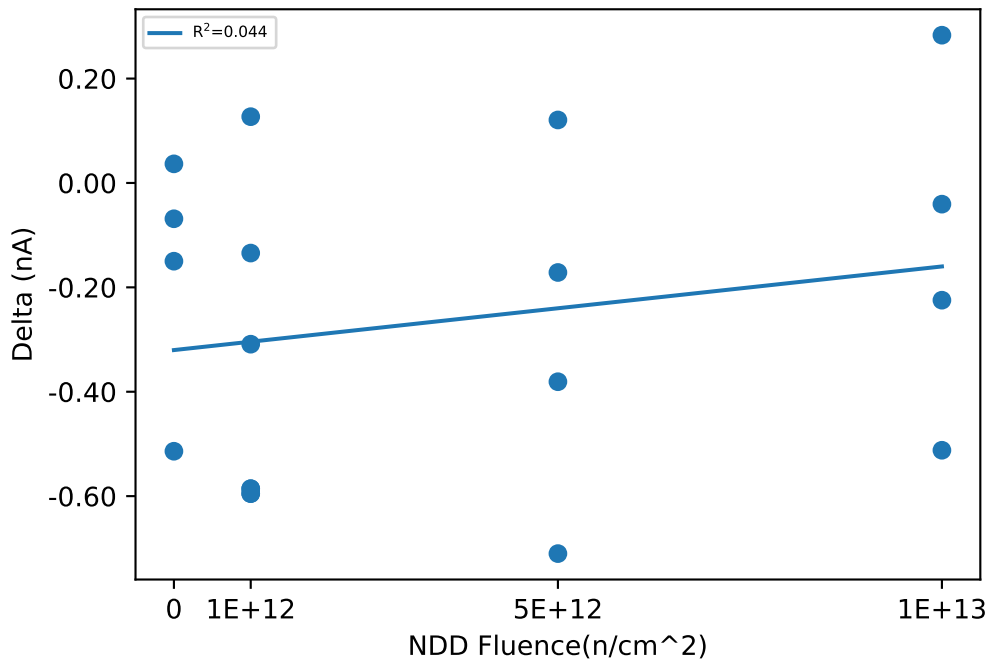
NDD vs Result Stats



Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.4461	0.8603	-0.5858
171	1e+12	NDD	0.9347	0.8004	-0.1343
269	1e+12	NDD	0.6451	0.7721	0.127
337	1e+12	NDD	1.1902	0.8813	-0.3089
357	5e+12	NDD	1.4024	0.6923	-0.7101
361	5e+12	NDD	1.1718	0.791	-0.3808
373	5e+12	NDD	0.6326	0.7533	0.1207
412	5e+12	NDD	1.4337	1.2622	-0.1715
470	1e+13	NDD	1.6959	1.1838	-0.5121
498	1e+13	NDD	0.9659	0.9253	-0.0406
503	1e+13	NDD	0.7512	1.0343	0.2831
540	1e+13	NDD	1.0154	0.7908	-0.2246
553	0	CORRELATION	1.3712	0.8572	-0.514
586	0	CORRELATION	1.0065	0.8566	-0.1499
634	0	CORRELATION	0.7605	0.7971	0.0366
635	0	CORRELATION	0.797	0.7284	-0.0686

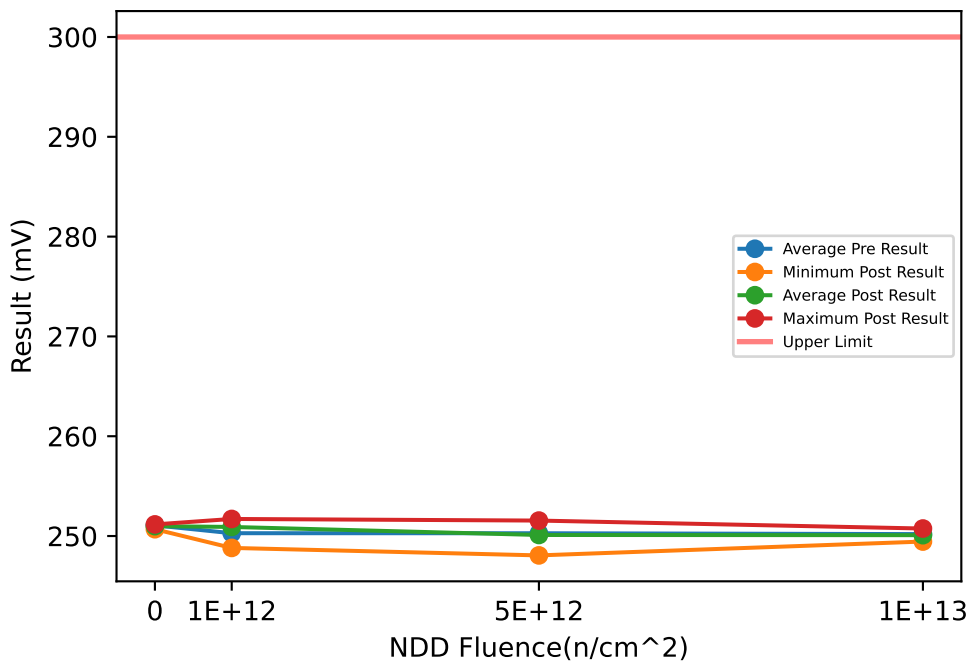
NDD vs Post - Pre Exposure Delta



Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7605	0.9838	1.3712	0.28009	0.7284	0.80983	0.8572	0.061167	-0.514	-0.17397	0.0366	0.23919
1e+12	0.6451	1.054	1.4461	0.34338	0.7721	0.82852	0.8813	0.050891	-0.5858	-0.2255	0.127	0.29964
5e+12	0.6326	1.1601	1.4337	0.37057	0.6923	0.8747	1.2622	0.26151	-0.7101	-0.28543	0.1207	0.34993
1e+13	0.7512	1.1071	1.6959	0.40894	0.7908	0.98355	1.1838	0.16655	-0.5121	-0.12355	0.2831	0.33338

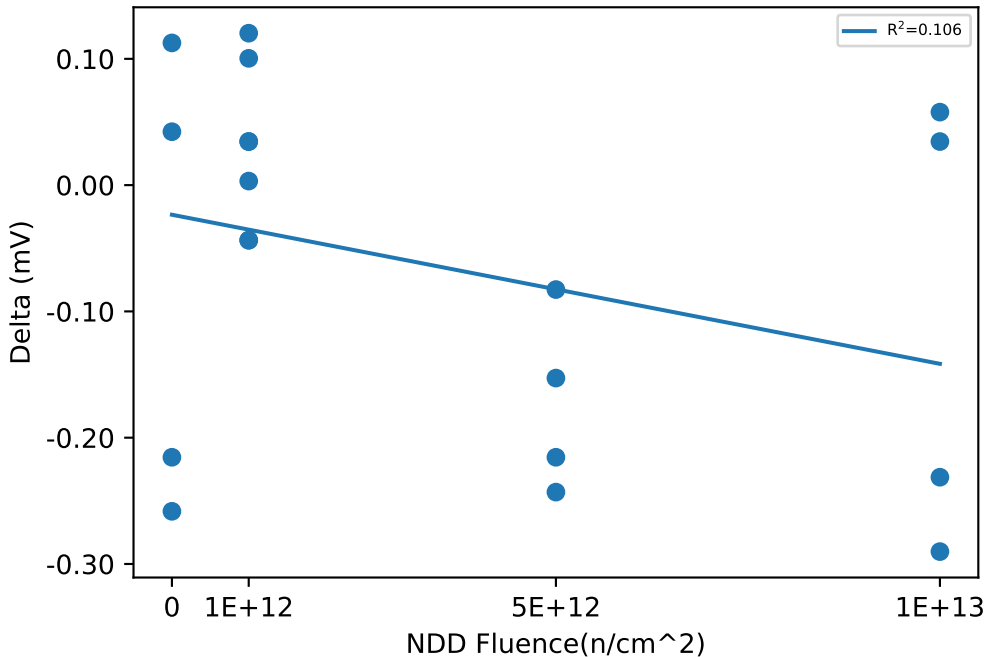
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	251.68	251.63	-0.0436
171	1e+12	NDD	250.11	250.21	0.1004
269	1e+12	NDD	250.66	250.66	0.0032
337	1e+12	NDD	248.69	248.81	0.1203
357	5e+12	NDD	251.07	250.85	-0.2155
361	5e+12	NDD	250.2	249.96	-0.2431
373	5e+12	NDD	251.7	251.55	-0.1528
412	5e+12	NDD	248.14	248.06	-0.0827
470	1e+13	NDD	250.1	249.87	-0.2313
498	1e+13	NDD	249.74	249.45	-0.2902
503	1e+13	NDD	250.72	250.75	0.0345
540	1e+13	NDD	250.22	250.28	0.0578
553	0	CORRELATION	251.36	251.15	-0.2155
586	0	CORRELATION	251.42	251.16	-0.2583
634	0	CORRELATION	250.86	250.97	0.1126
635	0	CORRELATION	250.64	250.68	0.0423

NDD vs Post - Pre Exposure Delta

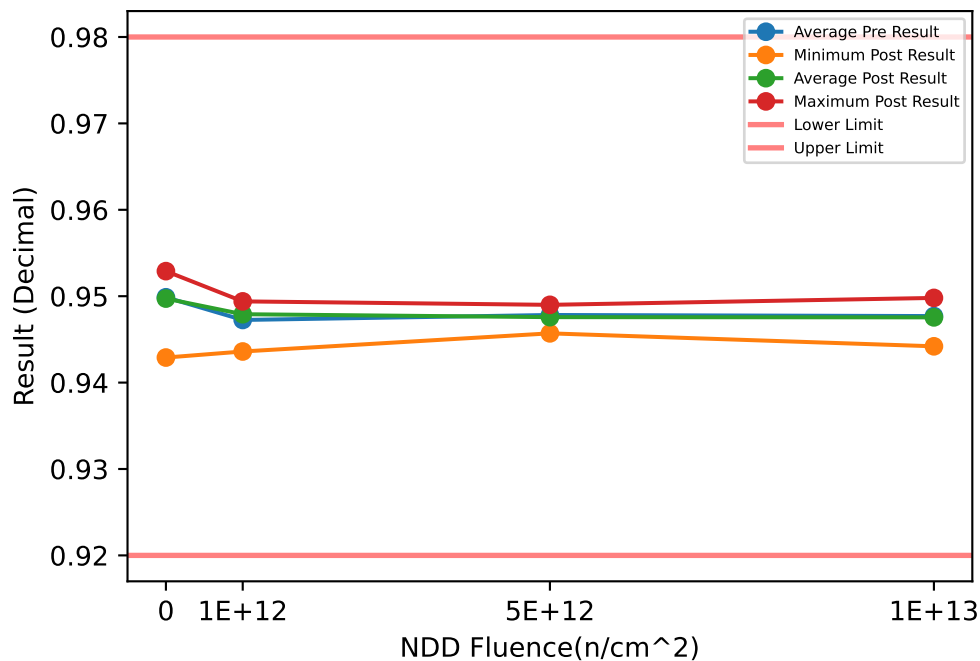


Test Statistics (mV)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	250.64	251.07	251.42	0.3828	250.68	250.99	251.16	0.22353	-0.2583	-0.079725	0.1126	0.18457
1e+12	248.69	250.28	251.68	1.245	248.81	250.33	251.63	1.1735	-0.0436	0.045075	0.1203	0.07818
5e+12	248.14	250.28	251.7	1.5508	248.06	250.11	251.55	1.5106	-0.2431	-0.17352	-0.0827	0.071371
1e+13	249.74	250.19	250.72	0.40537	249.45	250.09	250.75	0.55884	-0.2902	-0.1073	0.0578	0.17907

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

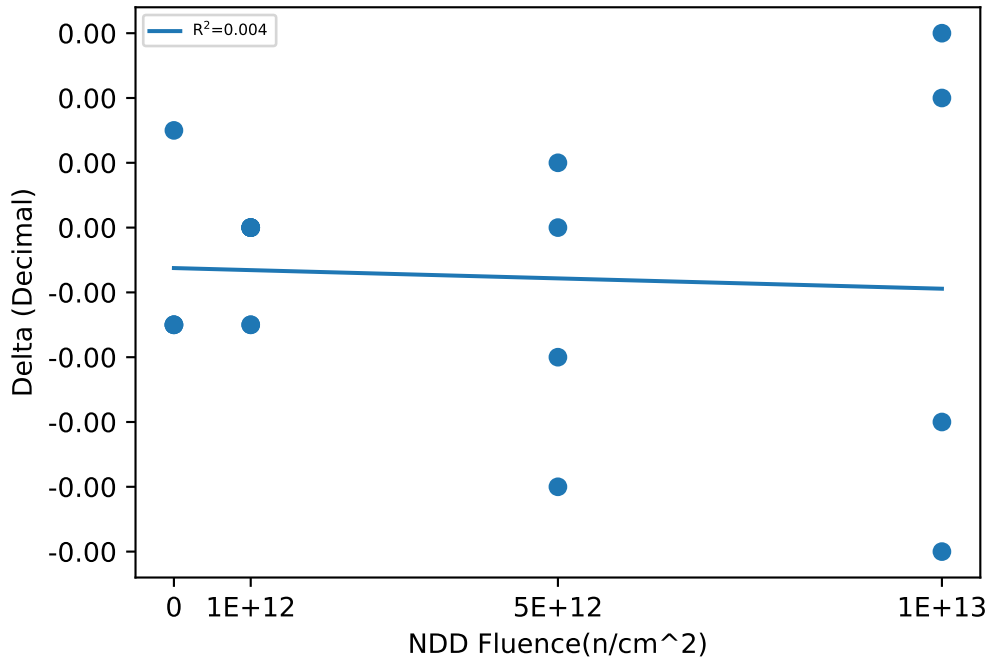
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.949	0.949	0
171	1e+12	NDD	0.9494	0.9494	0
269	1e+12	NDD	0.9439	0.9436	-0.0003
337	1e+12	NDD	0.9467	0.9464	-0.0003
357	5e+12	NDD	0.9487	0.9487	0
361	5e+12	NDD	0.9473	0.9469	-0.0004
373	5e+12	NDD	0.9465	0.9457	-0.0008
412	5e+12	NDD	0.9488	0.949	0.0002
470	1e+13	NDD	0.9479	0.9483	0.0004
498	1e+13	NDD	0.9504	0.9498	-0.0006
503	1e+13	NDD	0.9452	0.9442	-0.001
540	1e+13	NDD	0.9473	0.9479	0.0006
553	0	CORRELATION	0.9527	0.9524	-0.0003
586	0	CORRELATION	0.9532	0.9529	-0.0003
634	0	CORRELATION	0.951	0.9507	-0.0003
635	0	CORRELATION	0.9426	0.9429	0.0003

NDD vs Post - Pre Exposure Delta

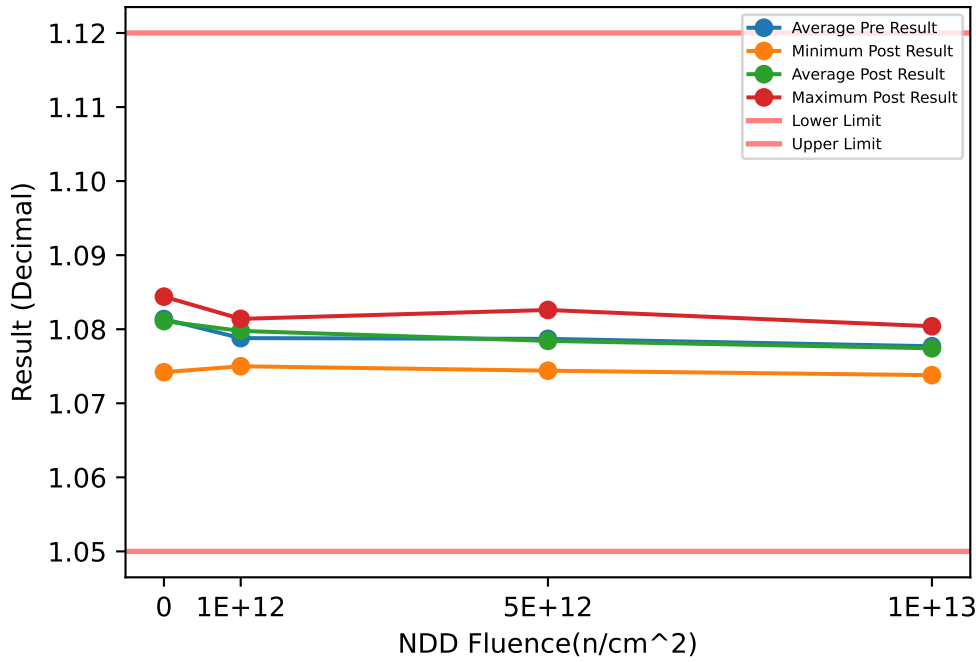


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9426	0.94988	0.9532	0.0049406	0.9429	0.94972	0.9529	0.0046464	-0.0003	-0.00015	0.0003	0.0003
1e+12	0.9439	0.94725	0.9494	0.0025305	0.9436	0.9471	0.9494	0.0026858	-0.0003	-0.00015	0	0.00017321
5e+12	0.9465	0.94783	0.9488	0.0011177	0.9457	0.94757	0.949	0.0015564	-0.0008	-0.00025	0.0002	0.00044347
1e+13	0.9452	0.9477	0.9504	0.0021401	0.9442	0.94755	0.9498	0.0023784	-0.001	-0.00015	0.0006	0.00077244

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

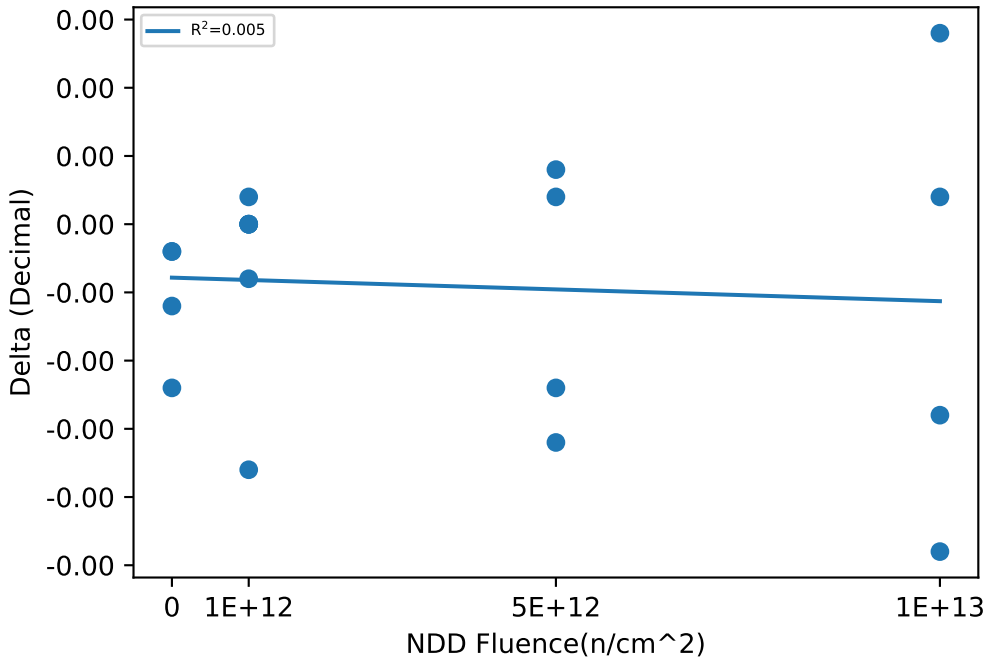
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0814	1.0814	0
171	1e+12	NDD	1.0807	1.0808	0.0001
269	1e+12	NDD	1.0759	1.075	-0.0009
337	1e+12	NDD	1.0772	1.077	-0.0002
357	5e+12	NDD	1.0783	1.0785	0.0002
361	5e+12	NDD	1.0788	1.0782	-0.0006
373	5e+12	NDD	1.0752	1.0744	-0.0008
412	5e+12	NDD	1.0825	1.0826	0.0001
470	1e+13	NDD	1.0781	1.0782	0.0001
498	1e+13	NDD	1.0811	1.0804	-0.0007
503	1e+13	NDD	1.075	1.0738	-0.0012
540	1e+13	NDD	1.0766	1.0773	0.0007
553	0	CORRELATION	1.0845	1.0844	-0.0001
586	0	CORRELATION	1.0828	1.0825	-0.0003
634	0	CORRELATION	1.0839	1.0833	-0.0006
635	0	CORRELATION	1.0743	1.0742	-0.0001

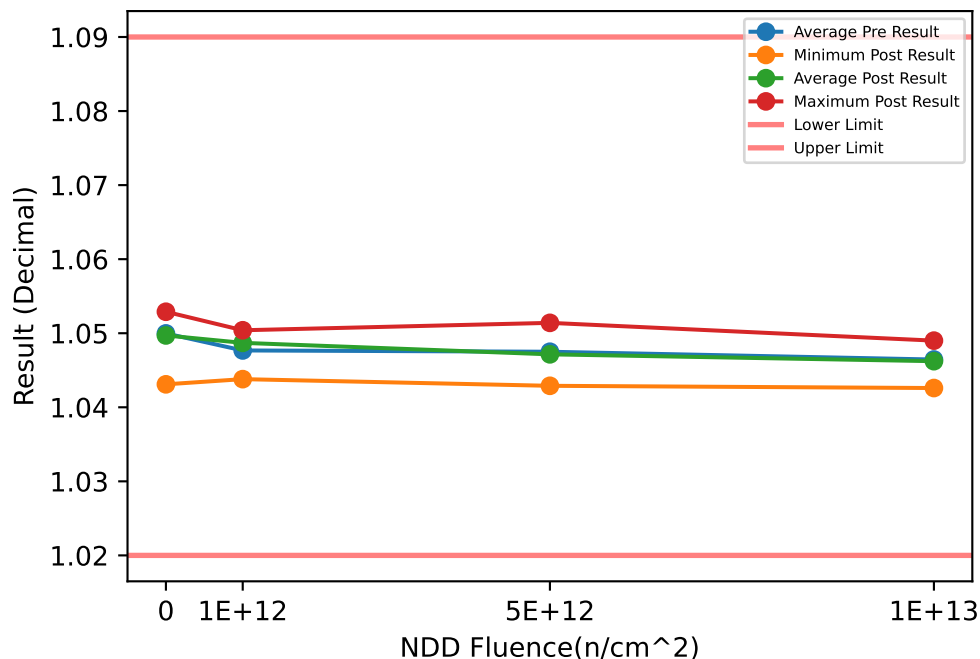
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0743	1.0814	1.0845	0.0047689	1.0742	1.0811	1.0844	0.0046655	-0.0006	-0.000275	-0.0001	0.00023629
1e+12	1.0759	1.0788	1.0814	0.0026671	1.075	1.0785	1.0814	0.0030654	-0.0009	-0.00025	0.0001	0.00045092
5e+12	1.0752	1.0787	1.0825	0.0029922	1.0744	1.0784	1.0826	0.003351	-0.0008	-0.000275	0.0002	0.00049917
1e+13	1.075	1.0777	1.0811	0.0025962	1.0738	1.0774	1.0804	0.0027451	-0.0012	-0.000275	0.0007	0.00084212

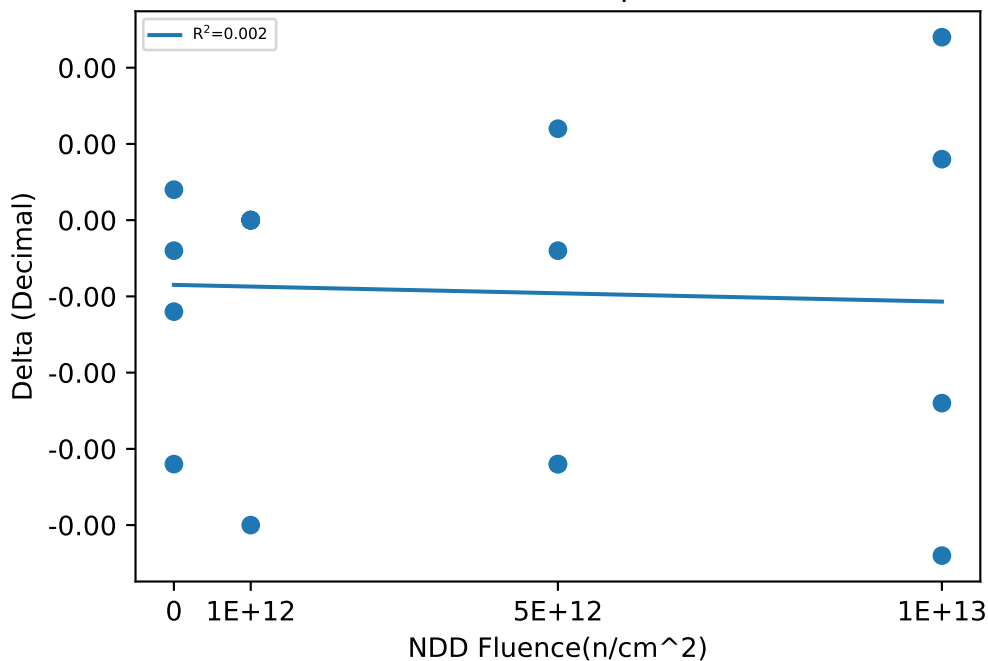
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.0504	1.0504	0
171	1e+12	NDD	1.0496	1.0496	0
269	1e+12	NDD	1.0448	1.0438	-0.001
337	1e+12	NDD	1.0459	1.0459	0
357	5e+12	NDD	1.0471	1.0474	0.0003
361	5e+12	NDD	1.0477	1.0469	-0.0008
373	5e+12	NDD	1.0437	1.0429	-0.0008
412	5e+12	NDD	1.0515	1.0514	-0.0001
470	1e+13	NDD	1.047	1.0472	0.0002
498	1e+13	NDD	1.0496	1.049	-0.0006
503	1e+13	NDD	1.0437	1.0426	-0.0011
540	1e+13	NDD	1.0455	1.0461	0.0006
553	0	CORRELATION	1.053	1.0529	-0.0001
586	0	CORRELATION	1.0515	1.0512	-0.0003
634	0	CORRELATION	1.0524	1.0516	-0.0008
635	0	CORRELATION	1.043	1.0431	0.0001

NDD vs Post - Pre Exposure Delta

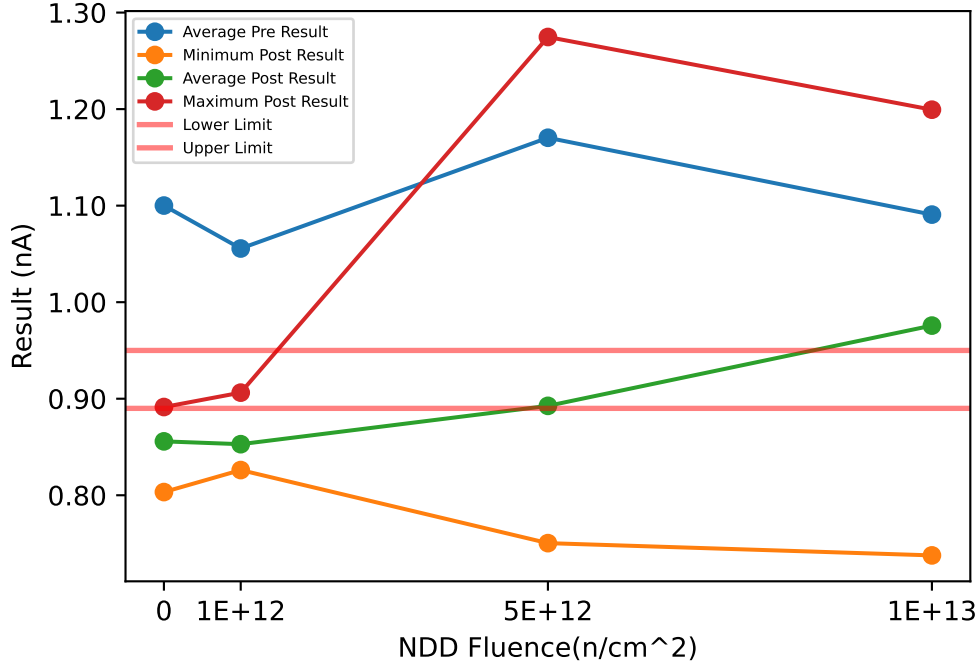


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.043	1.05	1.053	0.0046907	1.0431	1.0497	1.0529	0.0044594	-0.0008	-0.000275	0.0001	0.00038622
1e+12	1.0448	1.0477	1.0504	0.0027415	1.0438	1.0474	1.0504	0.0031117	-0.001	-0.00025	0	0.0005
5e+12	1.0437	1.0475	1.0515	0.0031958	1.0429	1.0472	1.0514	0.0034761	-0.0008	-0.00035	0.0003	0.00054467
1e+13	1.0437	1.0465	1.0496	0.002496	1.0426	1.0462	1.049	0.0026961	-0.0011	-0.000225	0.0006	0.00076757

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

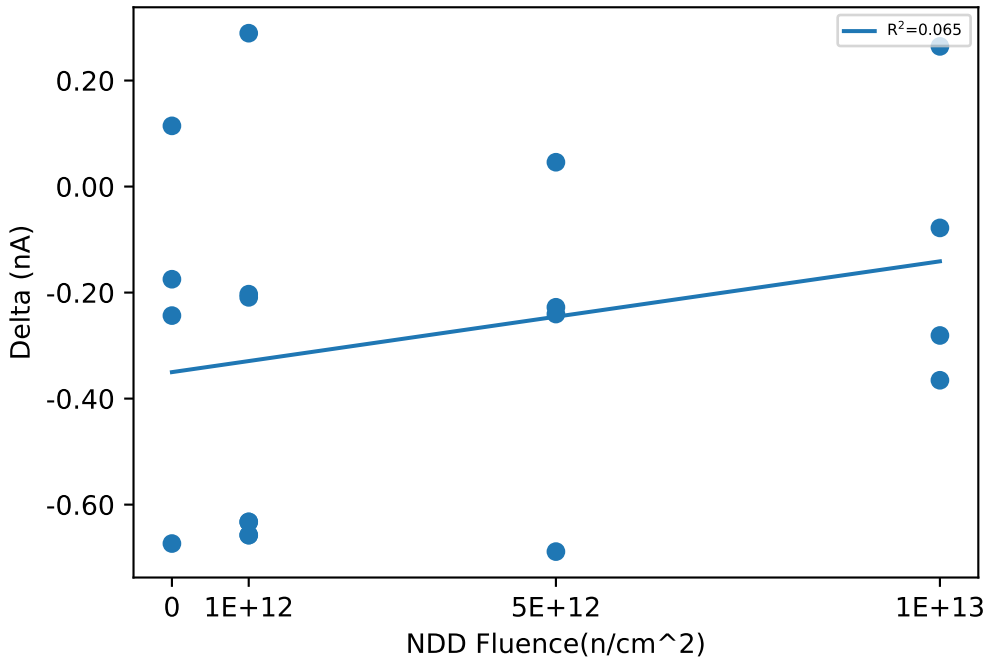
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.4836	0.851	-0.6326
171	1e+12	NDD	1.0658	0.8628	-0.203
269	1e+12	NDD	0.5577	0.847	0.2893
337	1e+12	NDD	1.1153	0.9063	-0.209
357	5e+12	NDD	1.4649	0.7763	-0.6886
361	5e+12	NDD	0.9909	0.7504	-0.2405
373	5e+12	NDD	0.7231	0.769	0.0459
412	5e+12	NDD	1.5024	1.2747	-0.2277
470	1e+13	NDD	1.5648	1.1994	-0.3654
498	1e+13	NDD	1.0533	0.9753	-0.078
503	1e+13	NDD	0.7262	0.9906	0.2644
540	1e+13	NDD	1.0186	0.7377	-0.2809
553	0	CORRELATION	1.5648	0.8914	-0.6734
586	0	CORRELATION	1.0564	0.8816	-0.1748
634	0	CORRELATION	0.7325	0.847	0.1145
635	0	CORRELATION	1.0467	0.8033	-0.2434

NDD vs Post - Pre Exposure Delta

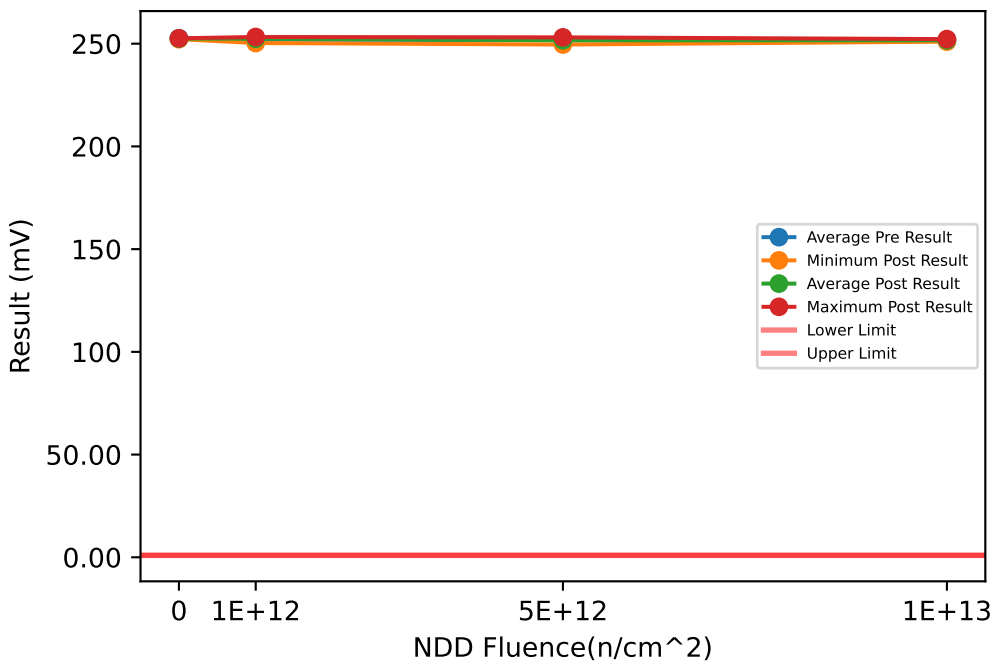


Test Statistics (nA)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7325	1.1001	1.5648	0.3444	0.8033	0.85583	0.8914	0.039861	-0.6734	-0.24427	0.1145	0.32542
1e+12	0.5577	1.0556	1.4836	0.38068	0.847	0.86677	0.9063	0.02719	-0.6326	-0.18883	0.2893	0.37689
5e+12	0.7231	1.1703	1.5024	0.37826	0.7504	0.8926	1.2747	0.25497	-0.6886	-0.27772	0.0459	0.30411
1e+13	0.7262	1.0907	1.5648	0.34844	0.7377	0.97575	1.1994	0.18877	-0.3654	-0.11497	0.2644	0.2802

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

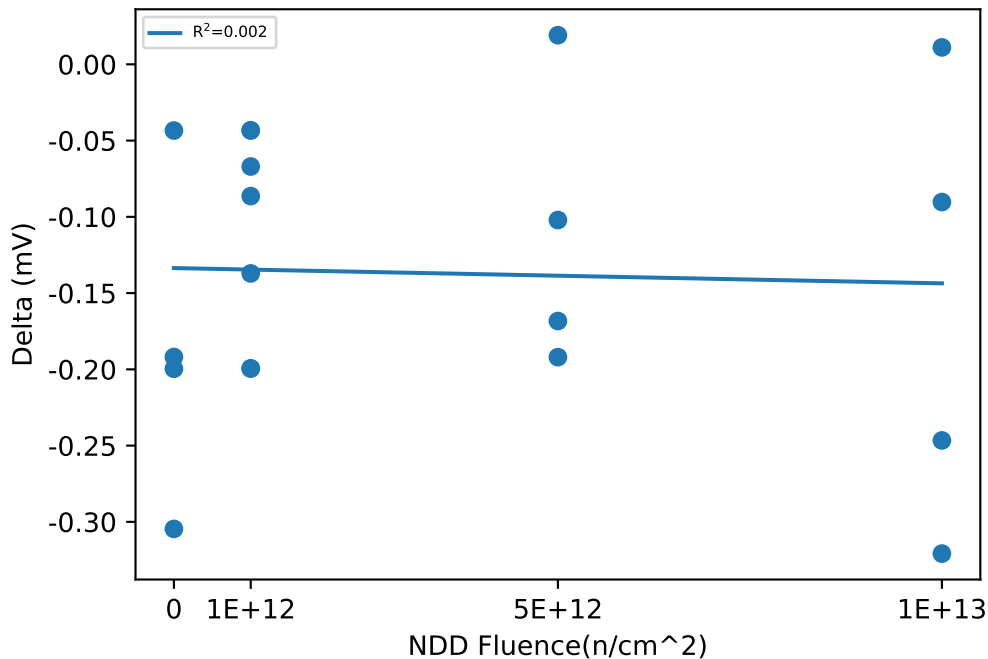
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	253.3	253.1	-0.1994
171	1e+12	NDD	251.84	251.76	-0.0864
269	1e+12	NDD	252.47	252.33	-0.1371
337	1e+12	NDD	250.38	250.31	-0.067
357	5e+12	NDD	252.6	252.43	-0.1683
361	5e+12	NDD	251.63	251.52	-0.1021
373	5e+12	NDD	253.06	253.08	0.0191
412	5e+12	NDD	249.78	249.59	-0.192
470	1e+13	NDD	251.71	251.46	-0.2466
498	1e+13	NDD	251.31	250.99	-0.3208
503	1e+13	NDD	252.33	252.24	-0.0903
540	1e+13	NDD	251.94	251.95	0.0111
553	0	CORRELATION	252.77	252.57	-0.1996
586	0	CORRELATION	252.86	252.55	-0.3046
634	0	CORRELATION	252.67	252.63	-0.0434
635	0	CORRELATION	252.39	252.2	-0.1919

NDD vs Post - Pre Exposure Delta

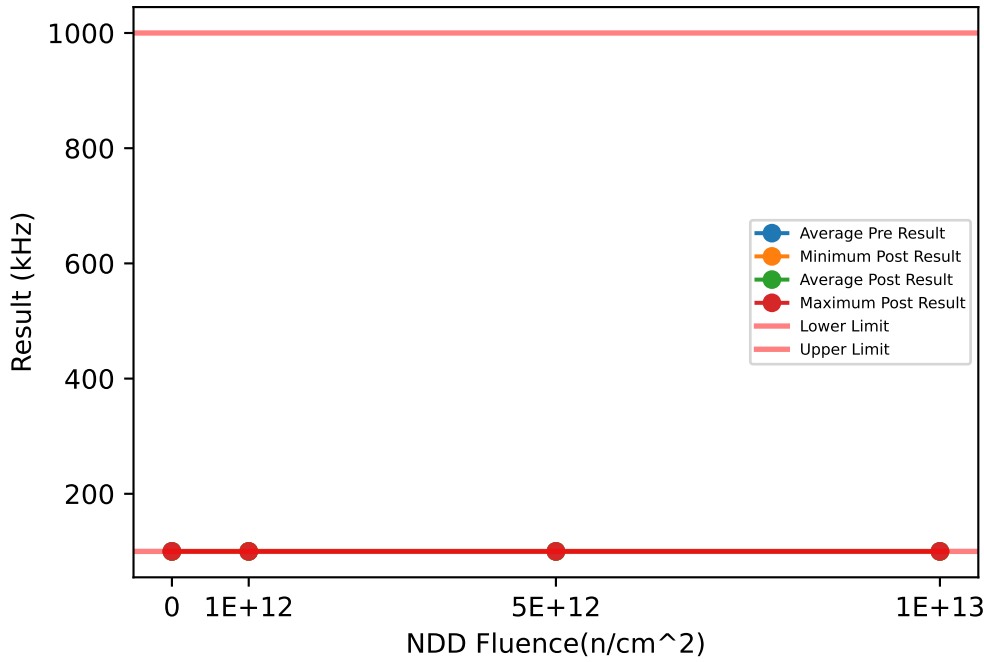


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	252.39	252.67	252.86	0.20316	252.2	252.49	252.63	0.19499	-0.3046	-0.18487	-0.0434	0.10742
1e+12	250.38	252	253.3	1.2344	250.31	251.87	253.1	1.1799	-0.1994	-0.12248	-0.067	0.05919
5e+12	249.78	251.77	253.06	1.4515	249.59	251.66	253.08	1.5174	-0.192	-0.11083	0.0191	0.094603
1e+13	251.31	251.82	252.33	0.42388	250.99	251.66	252.24	0.54759	-0.3208	-0.16165	0.0111	0.14998

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

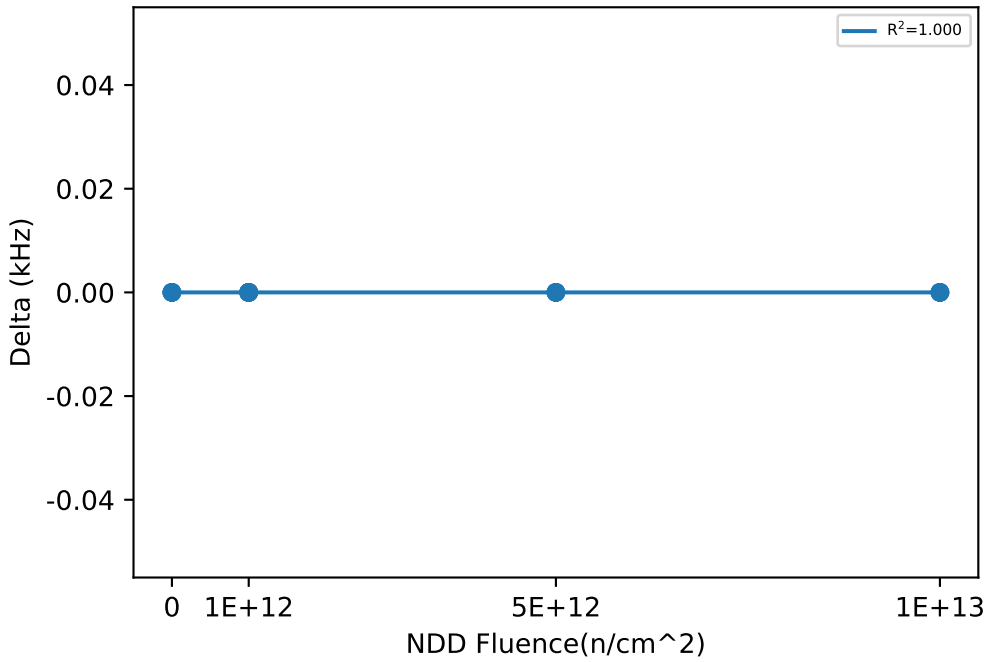
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	100	100	0
171	1e+12	NDD	100	100	0
269	1e+12	NDD	100	100	0
337	1e+12	NDD	100	100	0
357	5e+12	NDD	100	100	0
361	5e+12	NDD	100	100	0
373	5e+12	NDD	100	100	0
412	5e+12	NDD	100	100	0
470	1e+13	NDD	100	100	0
498	1e+13	NDD	100	100	0
503	1e+13	NDD	100	100	0
540	1e+13	NDD	100	100	0
553	0	CORRELATION	100	100	0
586	0	CORRELATION	100	100	0
634	0	CORRELATION	100	100	0
635	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

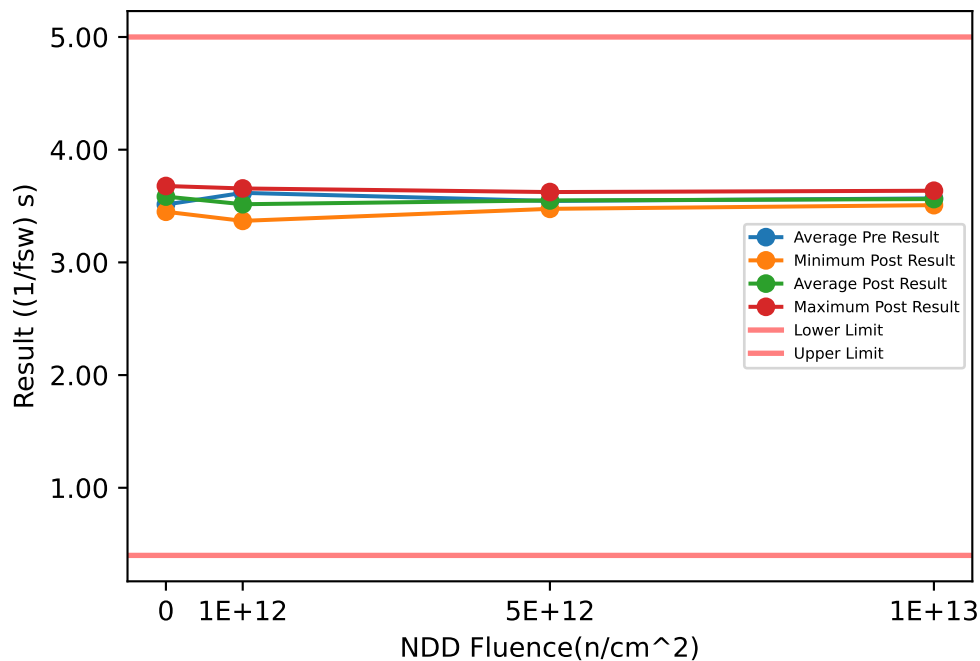


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

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

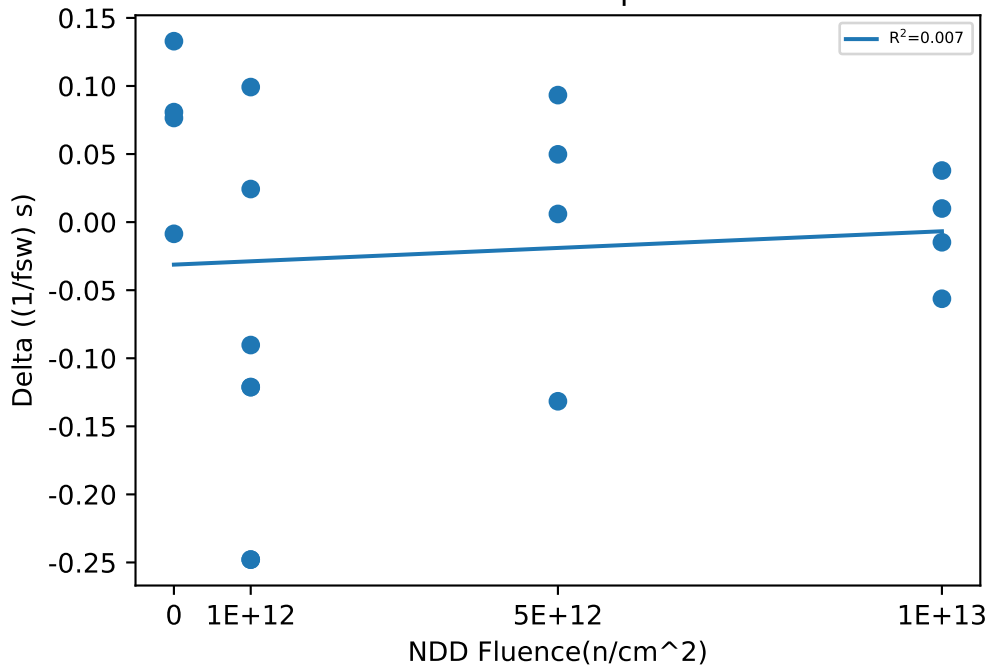
NDD vs Result Stats



Test Results (Lower Limit = 0.4, Upper Limit = 5.0 ((1/fsw) s))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.6163	3.3684	-0.2479
171	1e+12	NDD	3.5569	3.6561	0.0992
269	1e+12	NDD	3.7074	3.6171	-0.0903
337	1e+12	NDD	3.5878	3.6121	0.0243
357	5e+12	NDD	3.6181	3.6241	0.0006
361	5e+12	NDD	3.6067	3.4751	-0.1316
373	5e+12	NDD	3.4264	3.4762	0.0498
412	5e+12	NDD	3.5296	3.6229	0.0933
470	1e+13	NDD	3.5979	3.6358	0.0379
498	1e+13	NDD	3.5476	3.5328	-0.0148
503	1e+13	NDD	3.4979	3.5079	0.01
540	1e+13	NDD	3.6272	3.5709	-0.0563
553	0	CORRELATION	3.4579	3.4493	-0.0086
586	0	CORRELATION	3.4832	3.564	0.0808
634	0	CORRELATION	3.5118	3.6447	0.1329
635	0	CORRELATION	3.6013	3.6778	0.0765

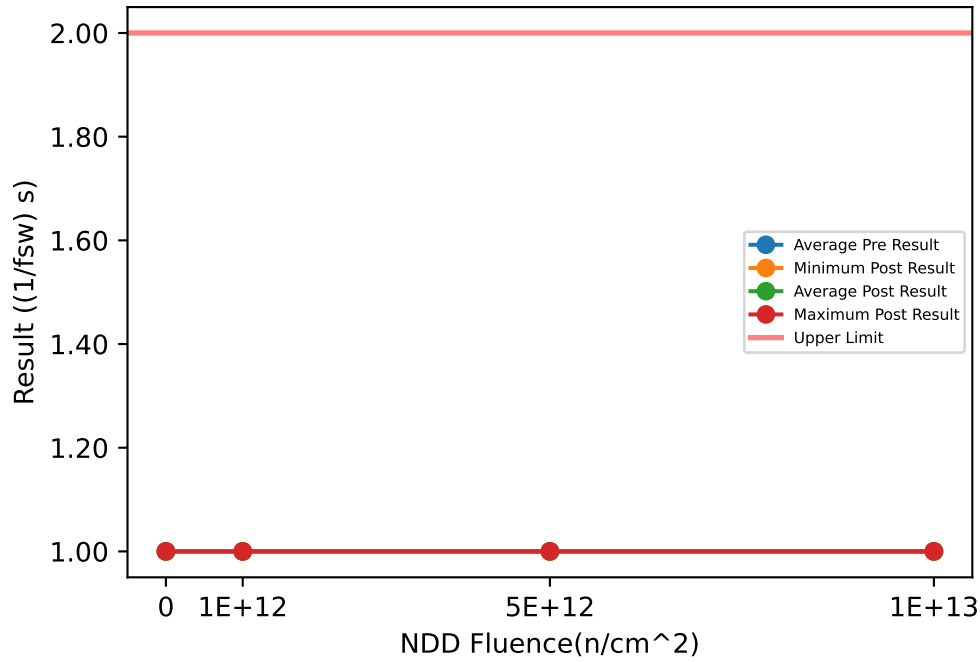
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) s)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4579	3.5135	3.6013	0.062506	3.4493	3.5839	3.6778	0.1017	-0.0086	0.0704	0.1329	0.058574
1e+12	3.5569	3.6171	3.7074	0.064903	3.3684	3.5634	3.6561	0.1315	-0.2479	-0.053675	0.0992	0.15112
5e+12	3.4264	3.5452	3.6181	0.088418	3.4751	3.5496	3.6241	0.085364	-0.1316	0.004375	0.0933	0.097405
1e+13	3.4979	3.5676	3.6272	0.056945	3.5079	3.5618	3.6358	0.055693	-0.0563	-0.0058	0.0379	0.039961

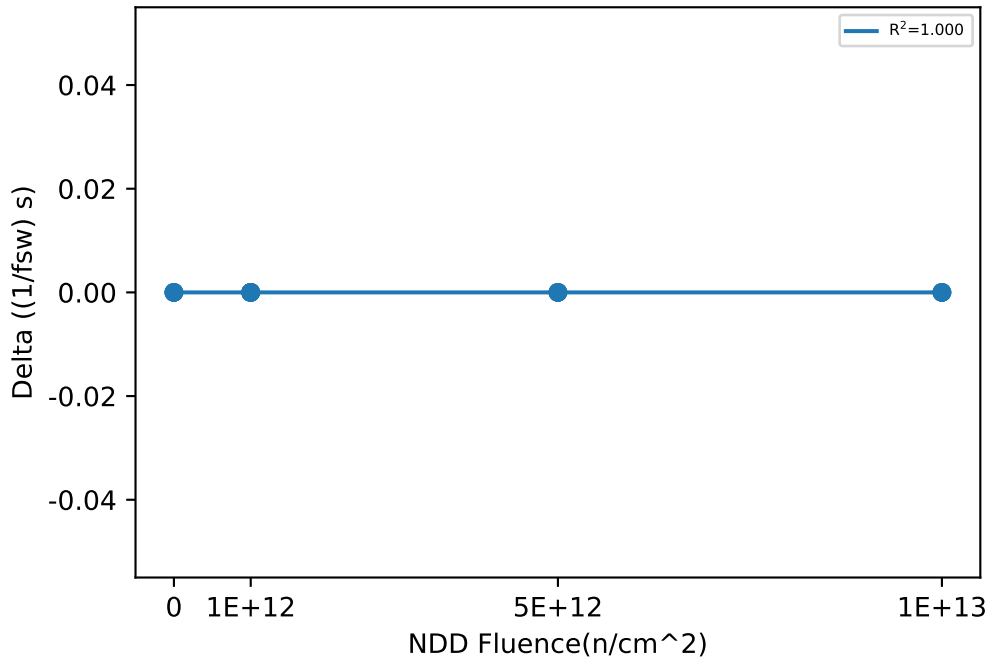
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1	1	0
171	1e+12	NDD	1	1	0
269	1e+12	NDD	1	1	0
337	1e+12	NDD	1	1	0
357	5e+12	NDD	1	1	0
361	5e+12	NDD	1	1	0
373	5e+12	NDD	1	1	0
412	5e+12	NDD	1	1	0
470	1e+13	NDD	1	1	0
498	1e+13	NDD	1	1	0
503	1e+13	NDD	1	1	0
540	1e+13	NDD	1	1	0
553	0	CORRELATION	1	1	0
586	0	CORRELATION	1	1	0
634	0	CORRELATION	1	1	0
635	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

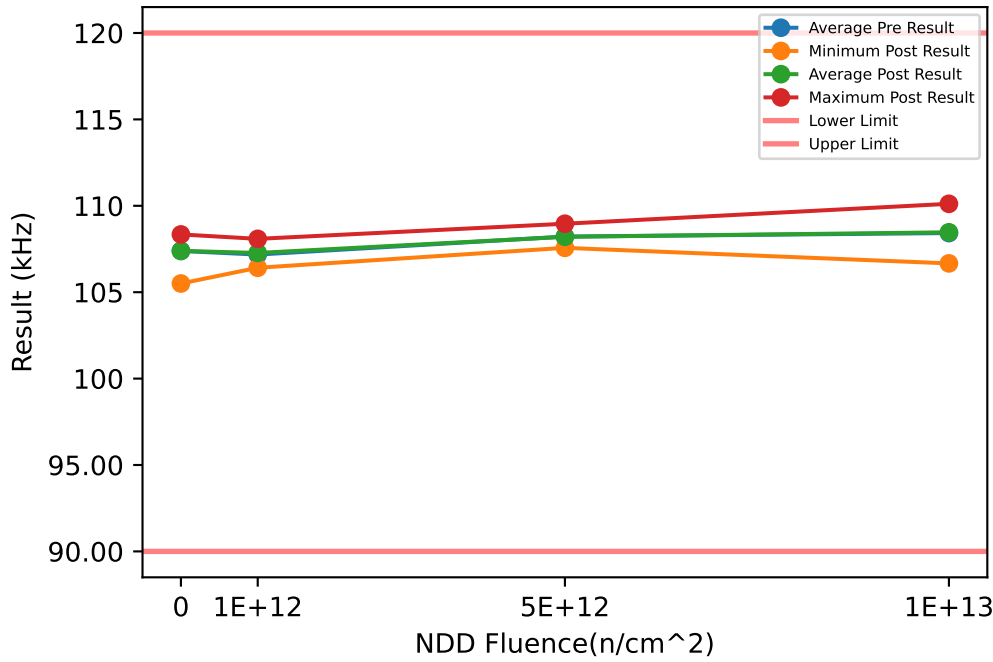


Test Statistics ((1/fsw) s)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

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

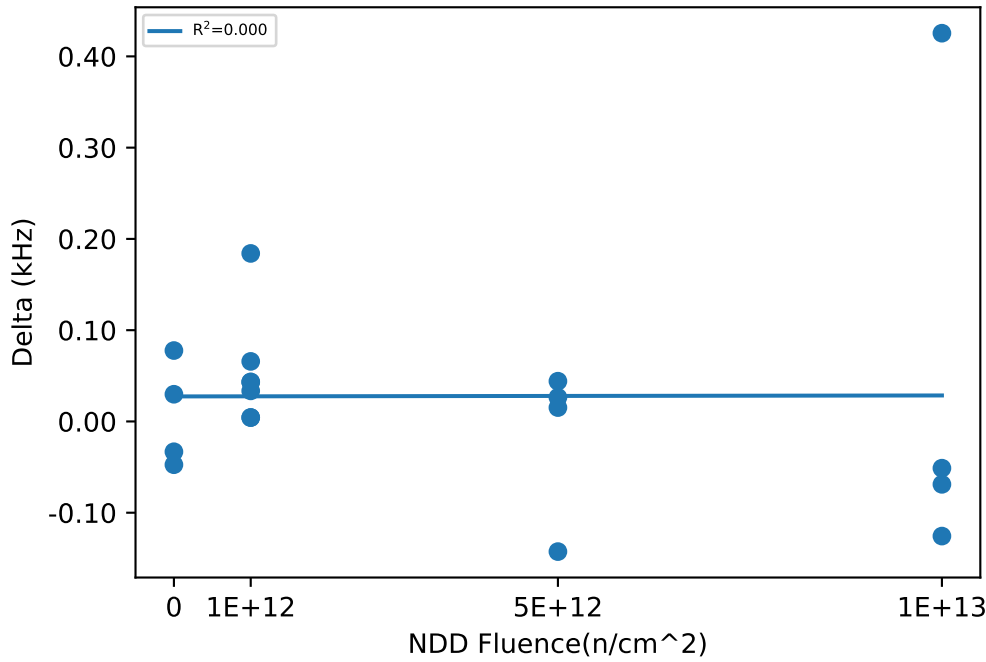
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	107.27	107.28	0.0043
171	1e+12	NDD	106.23	106.41	0.1841
269	1e+12	NDD	108.02	108.09	0.0658
337	1e+12	NDD	107.19	107.22	0.0335
357	5e+12	NDD	107.71	107.57	-0.1426
361	5e+12	NDD	108.52	108.54	0.0264
373	5e+12	NDD	108.92	108.96	0.0441
412	5e+12	NDD	107.73	107.75	0.0152
470	1e+13	NDD	108.18	108.11	-0.0689
498	1e+13	NDD	106.72	106.67	-0.0512
503	1e+13	NDD	108.55	108.97	0.4254
540	1e+13	NDD	110.24	110.11	-0.1256
553	0	CORRELATION	105.47	105.5	0.0298
586	0	CORRELATION	108.27	108.34	0.0777
634	0	CORRELATION	108	107.95	-0.0474
635	0	CORRELATION	107.81	107.77	-0.0332

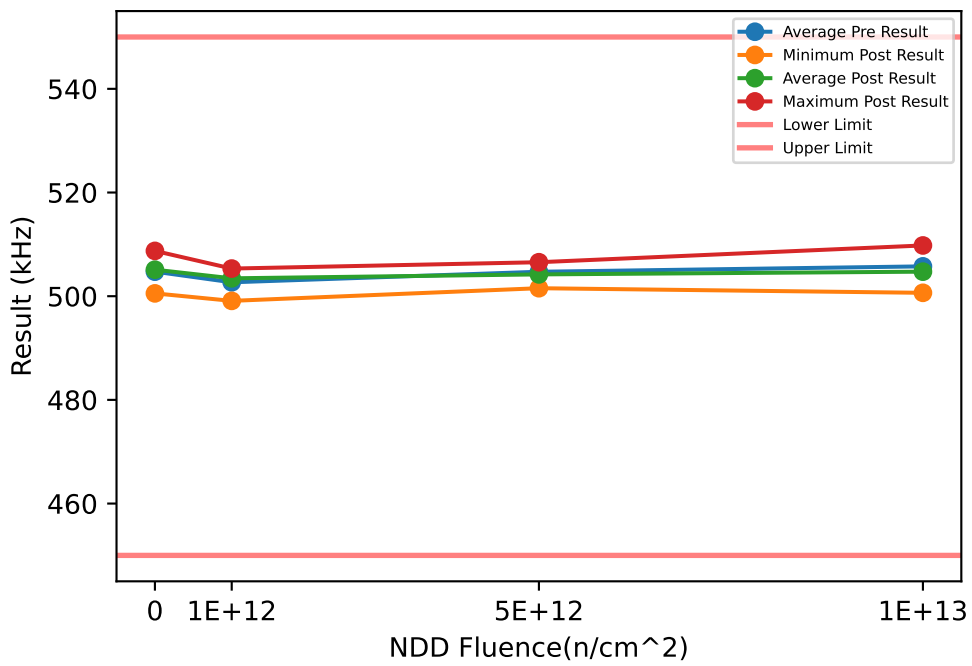
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	105.47	107.39	108.27	1.2892	105.5	107.39	108.34	1.2823	-0.0474	0.006725	0.0777	0.058004
1e+12	106.23	107.18	108.02	0.73434	106.41	107.25	108.09	0.6832	0.0043	0.071925	0.1841	0.078889
5e+12	107.71	108.22	108.92	0.59887	107.57	108.2	108.96	0.65984	-0.1426	-0.014225	0.0441	0.086406
1e+13	106.72	108.42	110.24	1.447	106.67	108.47	110.11	1.453	-0.1256	0.044925	0.4254	0.25563

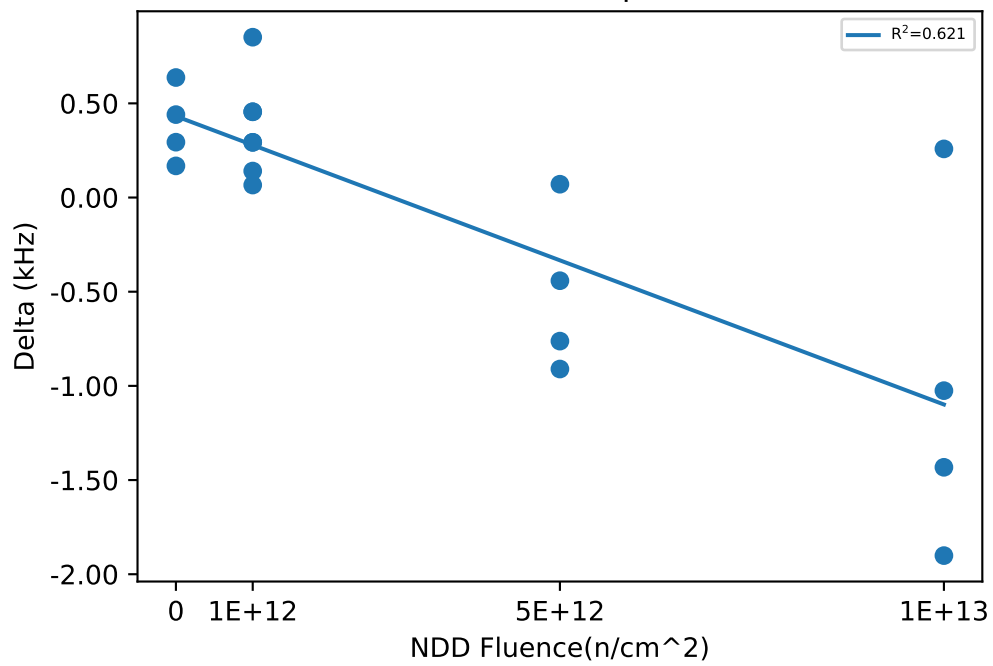
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	503.63	504.08	0.4553
171	1e+12	NDD	498.25	499.1	0.8513
269	1e+12	NDD	503.58	503.72	0.1406
337	1e+12	NDD	505.26	505.33	0.0663
357	5e+12	NDD	502.45	501.54	-0.9105
361	5e+12	NDD	506.18	506.25	0.0707
373	5e+12	NDD	507	506.55	-0.4416
412	5e+12	NDD	503.23	502.47	-0.7623
470	1e+13	NDD	506.35	504.92	-1.4323
498	1e+13	NDD	501.68	500.65	-1.0253
503	1e+13	NDD	503.3	503.56	0.2582
540	1e+13	NDD	511.69	509.79	-1.9011
553	0	CORRELATION	500.1	500.54	0.4403
586	0	CORRELATION	502.87	503.51	0.6372
634	0	CORRELATION	507.37	507.67	0.2939
635	0	CORRELATION	508.57	508.74	0.168

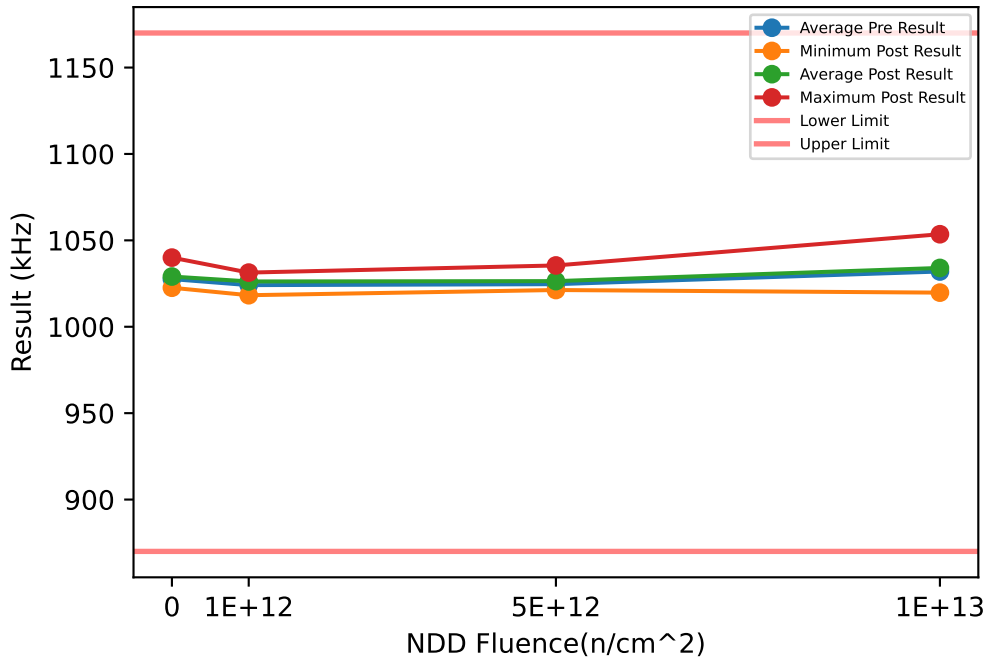
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.1	504.73	508.57	3.9408	500.54	505.12	508.74	3.791	0.168	0.38485	0.6372	0.2017
1e+12	498.25	502.68	505.26	3.057	499.1	503.06	505.33	2.7283	0.0663	0.37838	0.8513	0.35754
5e+12	502.45	504.71	507	2.2104	501.54	504.2	506.55	2.5687	-0.9105	-0.51093	0.0707	0.43434
1e+13	501.68	505.76	511.69	4.4049	500.65	504.73	509.79	3.8128	-1.9011	-1.0251	0.2582	0.92737

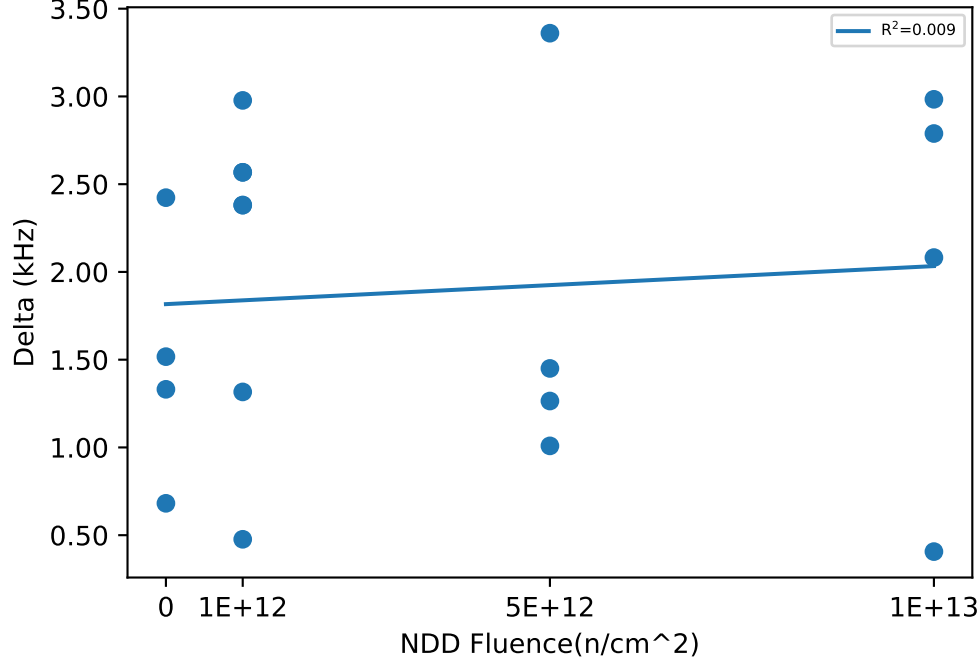
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1024.2	1026.8	2.5677
171	1e+12	NDD	1015.3	1018.3	2.9774
269	1e+12	NDD	1030.9	1031.3	0.4766
337	1e+12	NDD	1026	1027.3	1.3163
357	5e+12	NDD	1020.2	1021.3	1.0089
361	5e+12	NDD	1032.1	1035.5	3.3603
373	5e+12	NDD	1022.7	1024	1.2645
412	5e+12	NDD	1023.5	1025	1.4502
470	1e+13	NDD	1028.3	1031.3	2.9836
498	1e+13	NDD	1029.5	1031.6	2.0819
503	1e+13	NDD	1017	1019.8	2.7887
540	1e+13	NDD	1053.1	1053.5	0.4065
553	0	CORRELATION	1020.2	1022.6	2.4232
586	0	CORRELATION	1022.4	1023.9	1.5173
634	0	CORRELATION	1029	1029.7	0.6816
635	0	CORRELATION	1038.7	1040	1.3312

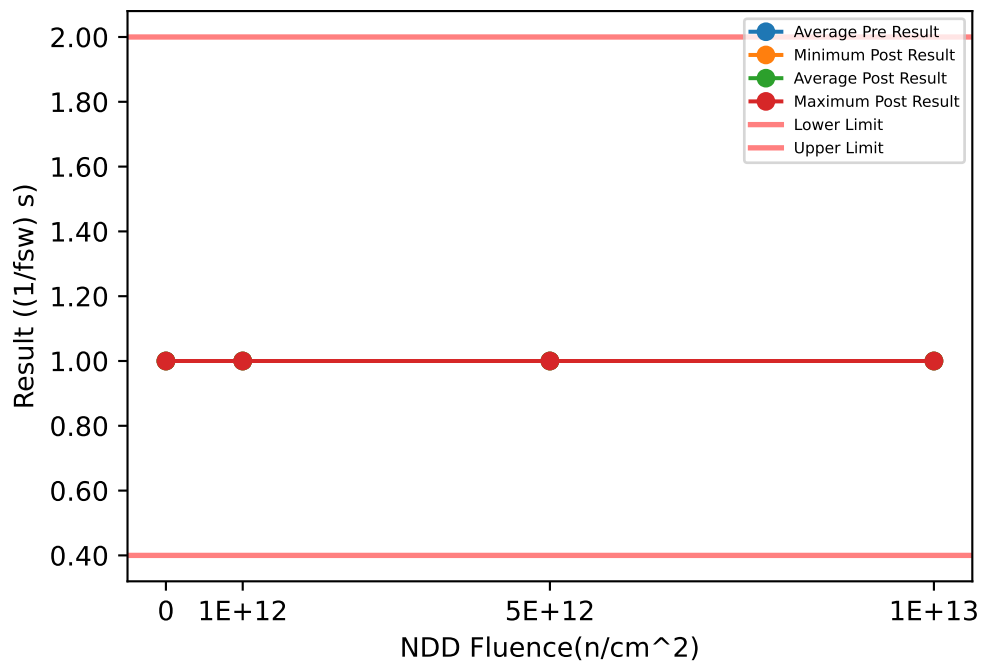
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1020.2	1027.6	1038.7	8.3084	1022.6	1029.1	1040	7.9296	0.6816	1.4883	2.4232	0.71887
1e+12	1015.3	1024.1	1030.9	6.5168	1018.3	1025.9	1031.3	5.5057	0.4766	1.8345	2.9774	1.1484
5e+12	1020.2	1024.6	1032.1	5.173	1021.3	1026.4	1035.5	6.2426	1.0089	1.771	3.3603	1.0749
1e+13	1017	1032	1053.1	15.195	1019.8	1034	1053.5	14.119	0.4065	2.0652	2.9836	1.1717

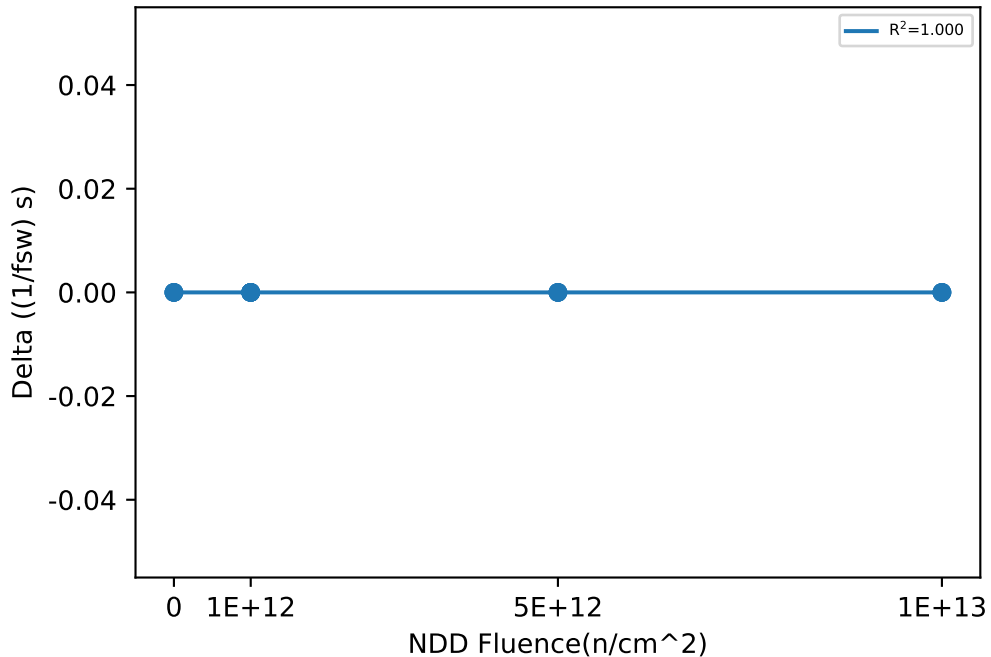
NDD vs Result Stats



Test Results (Lower Limit = 0.4, Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1	1	0
171	1e+12	NDD	1	1	0
269	1e+12	NDD	1	1	0
337	1e+12	NDD	1	1	0
357	5e+12	NDD	1	1	0
361	5e+12	NDD	1	1	0
373	5e+12	NDD	1	1	0
412	5e+12	NDD	1	1	0
470	1e+13	NDD	1	1	0
498	1e+13	NDD	1	1	0
503	1e+13	NDD	1	1	0
540	1e+13	NDD	1	1	0
553	0	CORRELATION	1	1	0
586	0	CORRELATION	1	1	0
634	0	CORRELATION	1	1	0
635	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

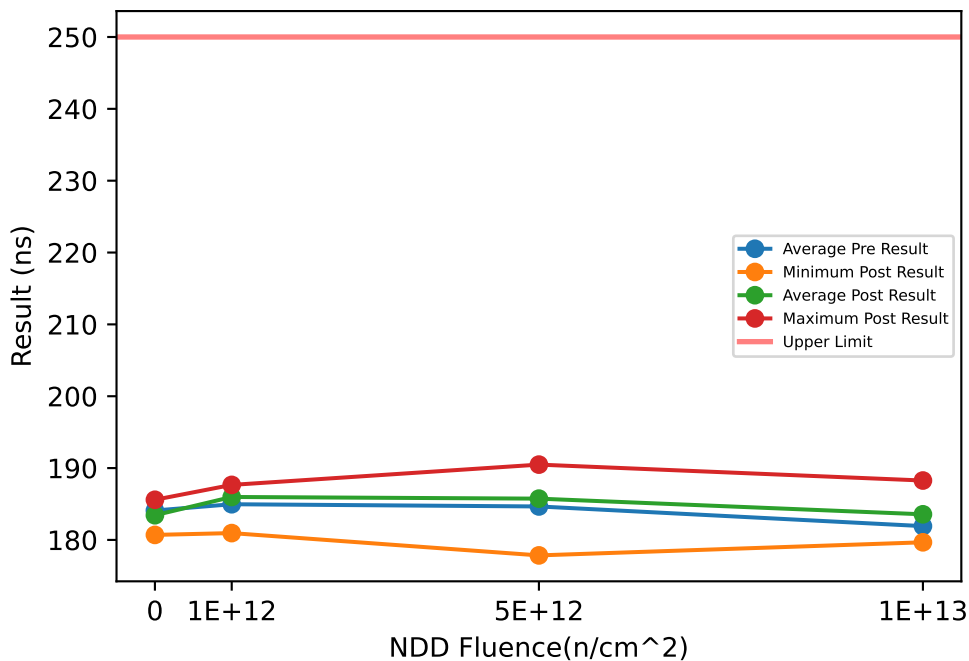


Test Statistics ((1/fsw) s)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

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

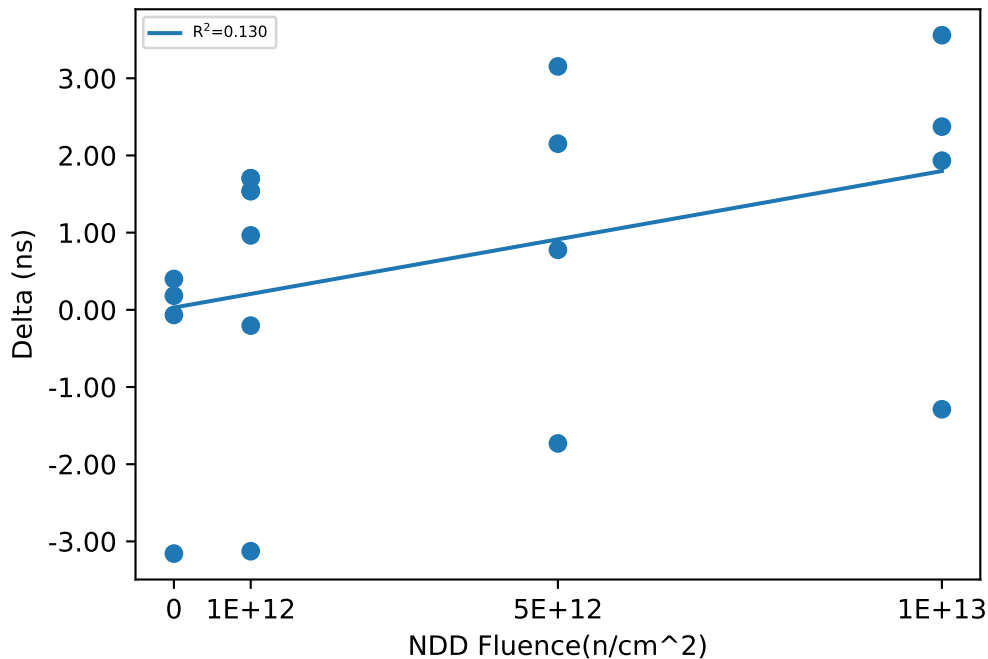
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	185.95	187.66	1.7047
171	1e+12	NDD	181.16	180.95	-0.2048
269	1e+12	NDD	186.32	187.29	0.9646
337	1e+12	NDD	186.44	183.31	-3.1275
357	5e+12	NDD	185.48	188.63	3.1537
361	5e+12	NDD	177.07	177.85	0.7776
373	5e+12	NDD	183.87	186.02	2.1521
412	5e+12	NDD	192.21	190.48	-1.7308
470	1e+13	NDD	182.28	184.21	1.9322
498	1e+13	NDD	179.74	182.12	2.3734
503	1e+13	NDD	184.71	188.27	3.5579
540	1e+13	NDD	180.96	179.67	-1.2886
553	0	CORRELATION	185.19	185.59	0.3999
586	0	CORRELATION	180.77	180.7	-0.0667
634	0	CORRELATION	183.42	183.6	0.1829
635	0	CORRELATION	187.01	183.86	-3.1582

NDD vs Post - Pre Exposure Delta

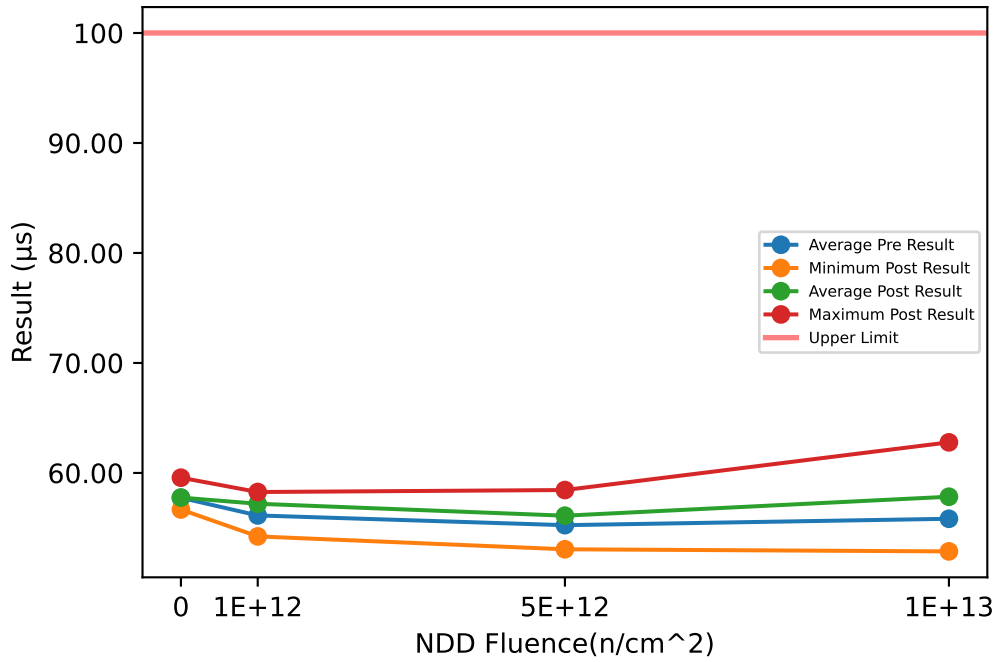


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	180.77	184.1	187.01	2.6621	180.7	183.44	185.59	2.0271	-3.1582	-0.66052	0.3999	1.676
1e+12	181.16	184.97	186.44	2.549	180.95	184.8	187.66	3.2351	-3.1275	-0.16575	1.7047	2.1252
5e+12	177.07	184.66	192.21	6.2176	177.85	185.75	190.48	5.5754	-1.7308	1.0881	3.1537	2.1167
1e+13	179.74	181.92	184.71	2.1273	179.67	183.57	188.27	3.6426	-1.2886	1.6437	3.5579	2.0719

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

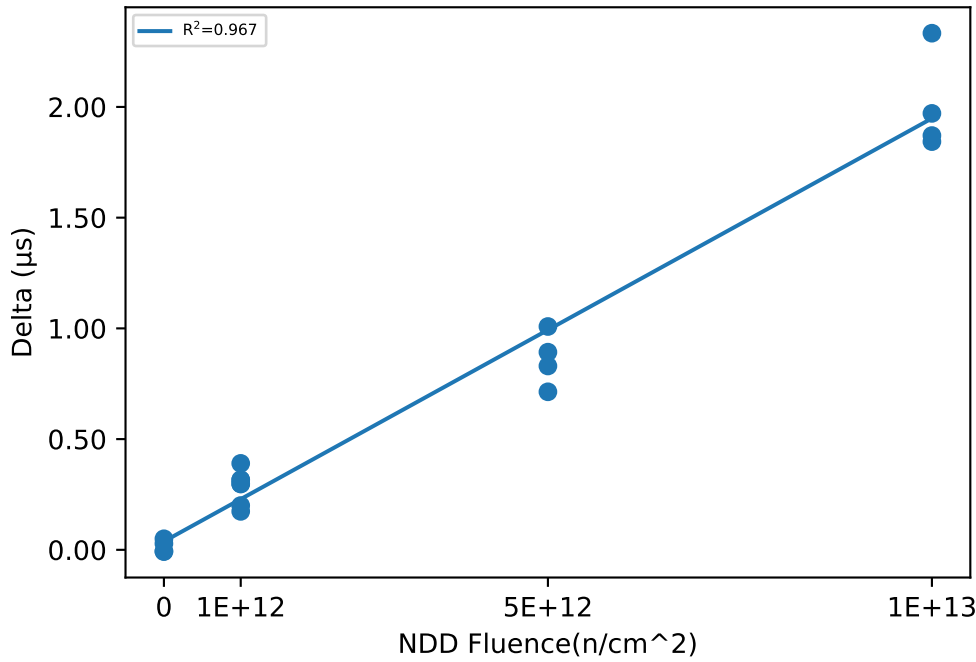
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	57.951	58.267	0.3162
171	1e+12	NDD	57.73	57.929	0.2
269	1e+12	NDD	55.027	55.201	0.1736
337	1e+12	NDD	53.84	54.23	0.3904
357	5e+12	NDD	56.809	57.639	0.8302
361	5e+12	NDD	57.438	58.447	1.0085
373	5e+12	NDD	54.413	55.305	0.8926
412	5e+12	NDD	52.346	53.059	0.7136
470	1e+13	NDD	56.562	58.533	1.9709
498	1e+13	NDD	60.449	62.782	2.333
503	1e+13	NDD	55.297	57.168	1.8708
540	1e+13	NDD	51.024	52.868	1.8434
553	0	CORRELATION	59.575	59.569	-0.006
586	0	CORRELATION	56.648	56.676	0.0282
634	0	CORRELATION	58.1	58.092	-0.008
635	0	CORRELATION	56.646	56.696	0.0499

NDD vs Post - Pre Exposure Delta

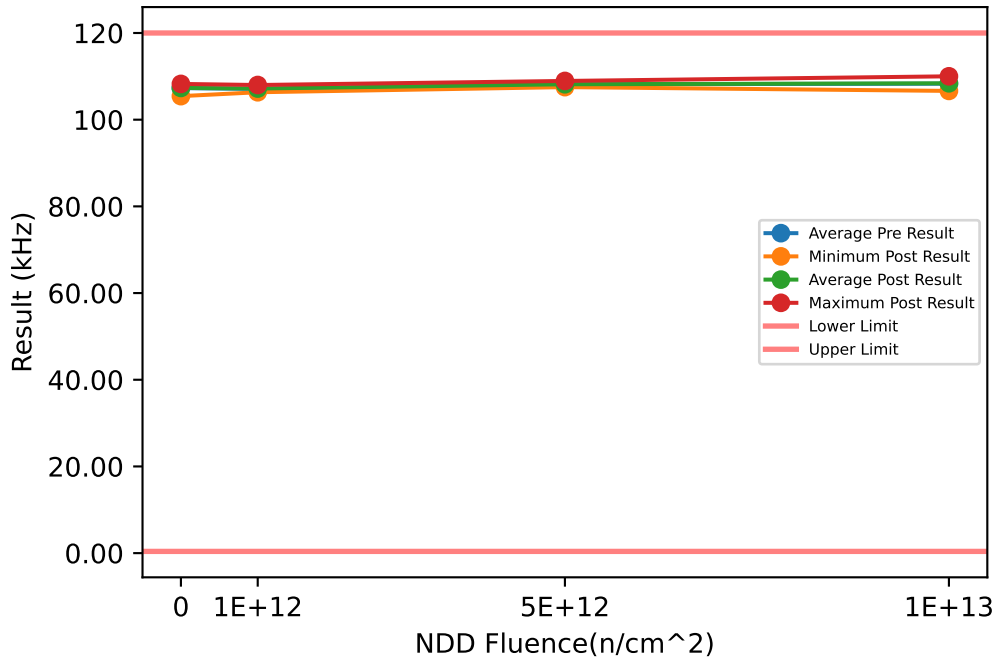


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	56.646	57.742	59.575	1.4006	56.676	57.758	59.569	1.377	-0.008	0.016025	0.0499	0.028036
1e+12	53.84	56.137	57.951	2.0278	54.23	56.407	58.267	1.9977	0.1736	0.27005	0.3904	0.10136
5e+12	52.346	55.251	57.438	2.3347	53.059	56.113	58.447	2.4325	0.7136	0.86122	1.0085	0.12306
1e+13	51.024	55.833	60.449	3.8838	52.868	57.838	62.782	4.0858	1.8434	2.0045	2.333	0.22574

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

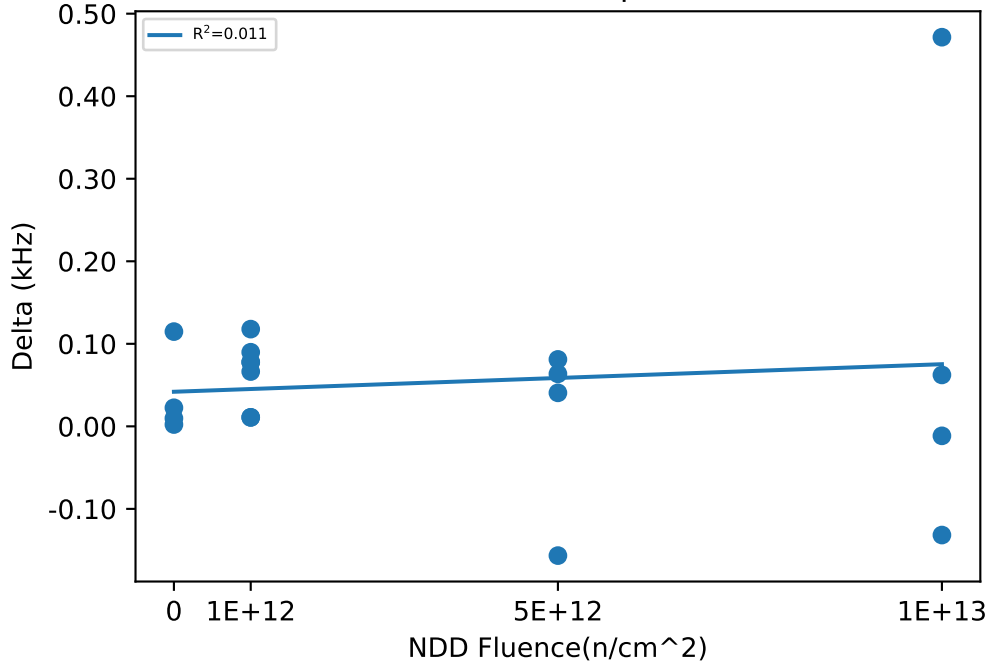
NDD vs Result Stats



Test Results (Lower Limit = 0.4, Upper Limit = 120.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	107.15	107.17	0.0109
171	1e+12	NDD	106.24	106.33	0.0898
269	1e+12	NDD	107.88	108	0.1178
337	1e+12	NDD	107.11	107.18	0.0664
357	5e+12	NDD	107.67	107.51	-0.1566
361	5e+12	NDD	108.45	108.51	0.0636
373	5e+12	NDD	108.86	108.94	0.0811
412	5e+12	NDD	107.69	107.73	0.0406
470	1e+13	NDD	108.03	108.02	-0.0115
498	1e+13	NDD	106.58	106.64	0.0623
503	1e+13	NDD	108.46	108.93	0.4715
540	1e+13	NDD	110.14	110.01	-0.1317
553	0	CORRELATION	105.41	105.44	0.0225
586	0	CORRELATION	108.14	108.25	0.1148
634	0	CORRELATION	107.9	107.9	0.0022
635	0	CORRELATION	107.71	107.72	0.0097

NDD vs Post - Pre Exposure Delta

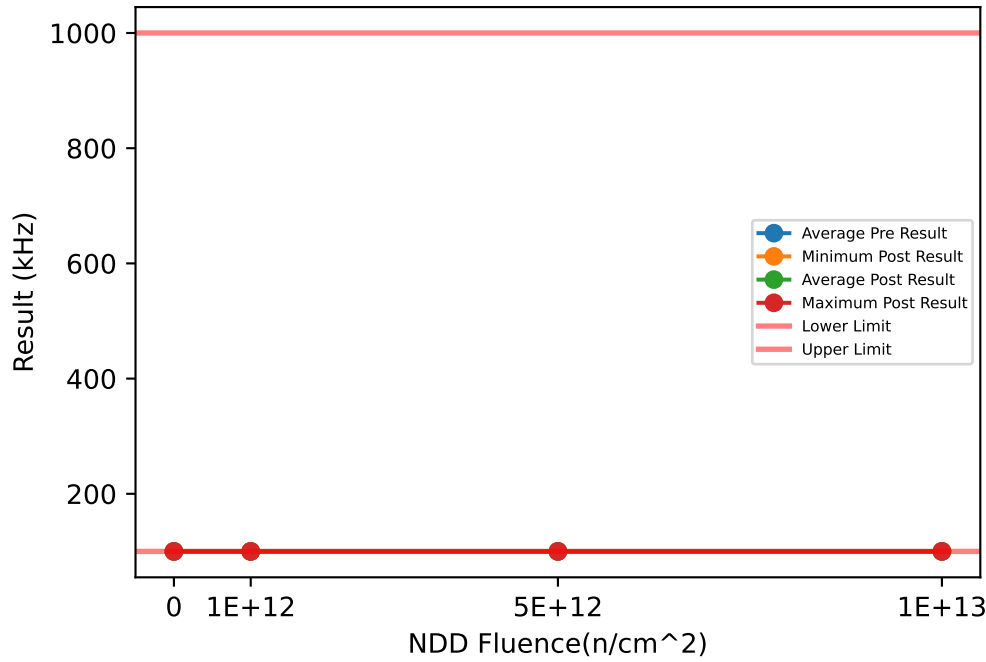


Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	105.41	107.29	108.14	1.2633	105.44	107.33	108.25	1.2803	0.0022	0.0373	0.1148	0.052342
1e+12	106.24	107.1	107.88	0.67313	106.33	107.17	108	0.68307	0.0109	0.071225	0.1178	0.045375
5e+12	107.67	108.17	108.86	0.58491	107.51	108.17	108.94	0.66528	-0.1566	0.007175	0.0811	0.11044
1e+13	106.58	108.3	110.14	1.4666	106.64	108.4	110.01	1.4274	-0.1317	0.09765	0.4715	0.26174

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

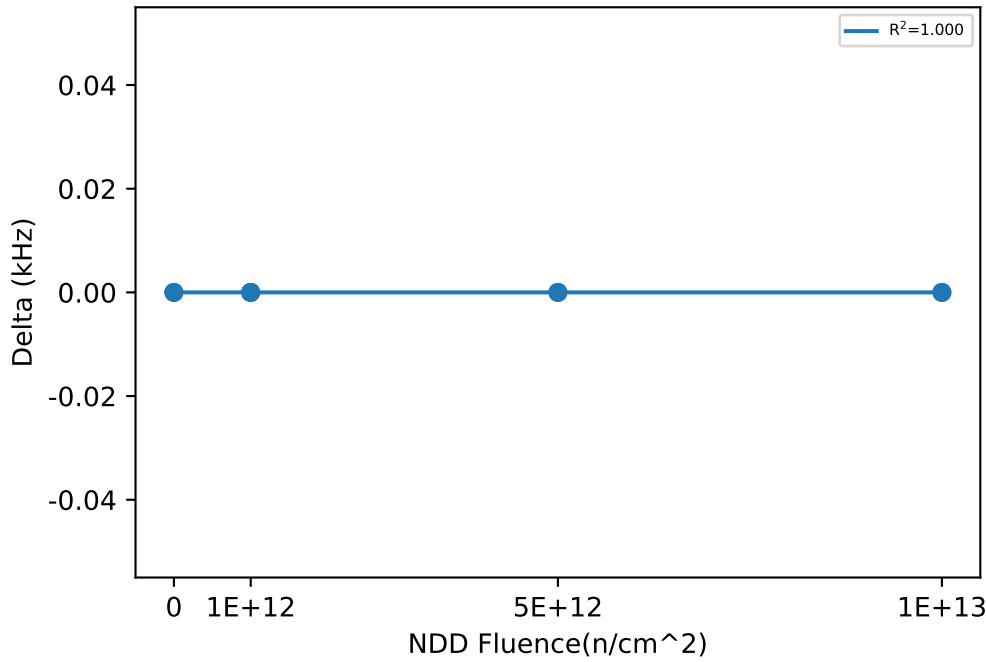
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	100	100	0
171	1e+12	NDD	100	100	0
269	1e+12	NDD	100	100	0
337	1e+12	NDD	100	100	0
357	5e+12	NDD	100	100	0
361	5e+12	NDD	100	100	0
373	5e+12	NDD	100	100	0
412	5e+12	NDD	100	100	0
470	1e+13	NDD	100	100	0
498	1e+13	NDD	100	100	0
503	1e+13	NDD	100	100	0
540	1e+13	NDD	100	100	0
553	0	CORRELATION	100	100	0
586	0	CORRELATION	100	100	0
634	0	CORRELATION	100	100	0
635	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

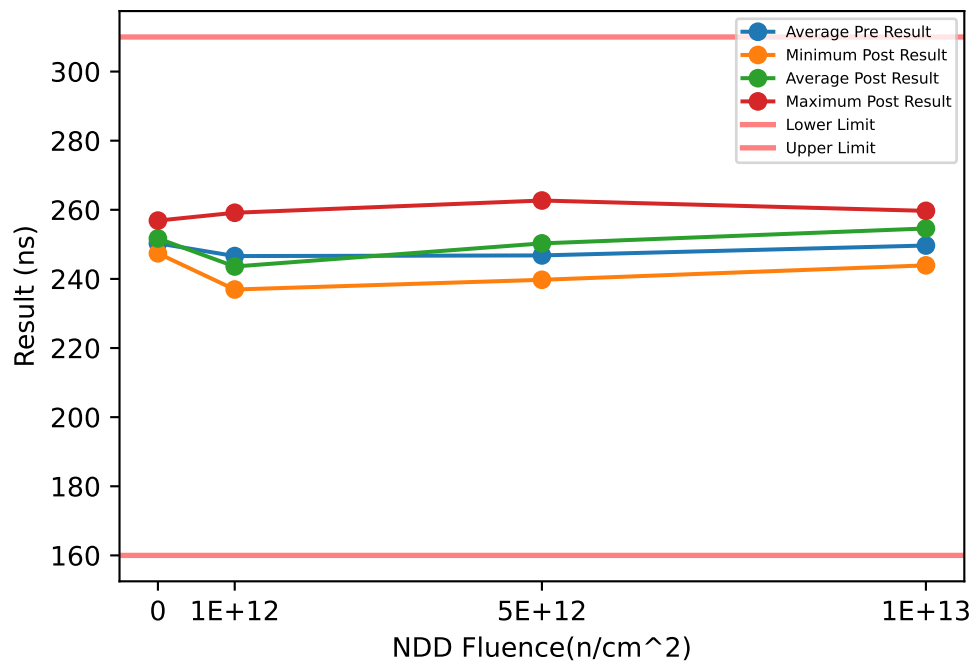


Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

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

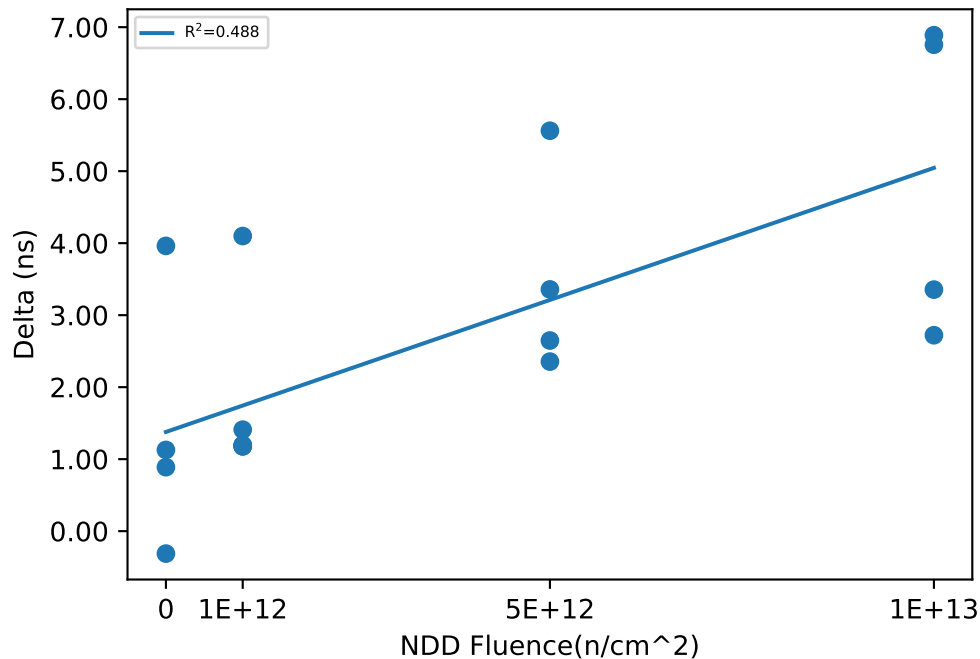
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	235.76	236.93	1.1785
171	1e+12	NDD	257.73	259.14	1.4097
269	1e+12	NDD	243.52	247.62	4.099
337	1e+12	NDD	249.44	250.63	1.1842
357	5e+12	NDD	236.39	239.74	3.3576
361	5e+12	NDD	260.04	262.69	2.6478
373	5e+12	NDD	245.26	250.82	5.5617
412	5e+12	NDD	245.51	247.87	2.355
470	1e+13	NDD	241.2	243.92	2.7212
498	1e+13	NDD	255.72	259.07	3.3549
503	1e+13	NDD	248.93	255.69	6.7563
540	1e+13	NDD	252.8	259.69	6.8886
553	0	CORRELATION	247.72	247.4	-0.3118
586	0	CORRELATION	255.98	256.87	0.8884
634	0	CORRELATION	244.36	248.33	3.9622
635	0	CORRELATION	253.13	254.26	1.1279

NDD vs Post - Pre Exposure Delta

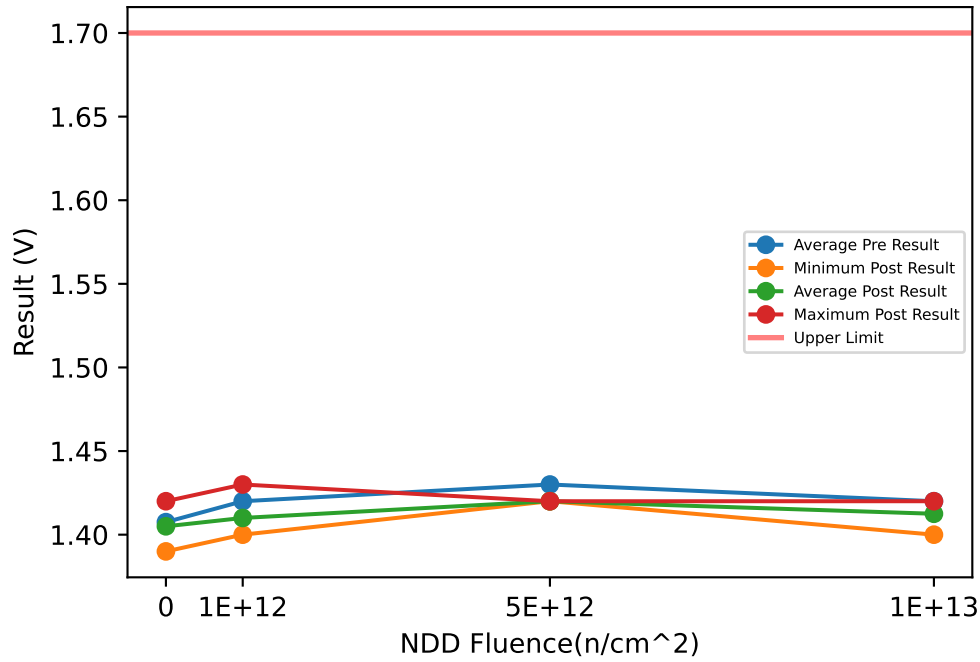


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	244.36	250.3	255.98	5.236	247.4	251.72	256.87	4.5878	-0.3118	1.4167	3.9622	1.8101
1e+12	235.76	246.61	257.73	9.2938	236.93	248.58	259.14	9.1708	1.1785	1.9678	4.099	1.4248
5e+12	236.39	246.8	260.04	9.7932	239.74	250.28	262.69	9.5048	2.355	3.4805	5.5617	1.4499
1e+13	241.2	249.66	255.72	6.2884	243.92	254.59	259.69	7.328	2.7212	4.9302	6.8886	2.2009

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

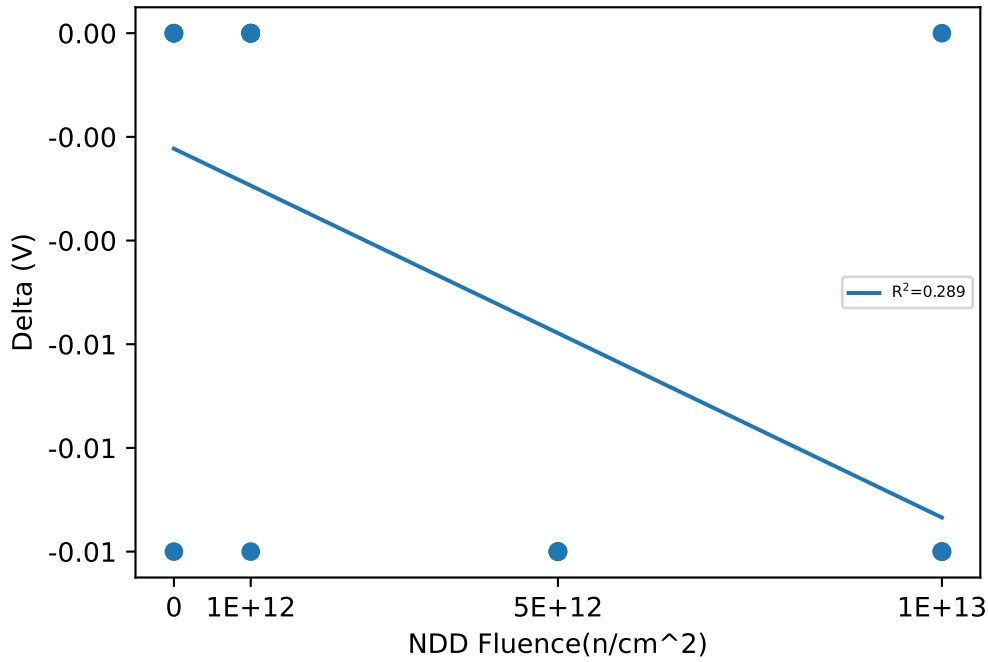
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.4	1.4	0
171	1e+12	NDD	1.43	1.43	0
269	1e+12	NDD	1.42	1.42	0
337	1e+12	NDD	1.43	1.42	-0.01
357	5e+12	NDD	1.43	1.42	-0.01
361	5e+12	NDD	1.43	1.42	-0.01
373	5e+12	NDD	1.43	1.42	-0.01
412	5e+12	NDD	1.43	1.42	-0.01
470	1e+13	NDD	1.42	1.41	-0.01
498	1e+13	NDD	1.43	1.42	-0.01
503	1e+13	NDD	1.43	1.42	-0.01
540	1e+13	NDD	1.4	1.4	0
553	0	CORRELATION	1.41	1.41	0
586	0	CORRELATION	1.4	1.4	0
634	0	CORRELATION	1.42	1.42	0
635	0	CORRELATION	1.4	1.39	-0.01

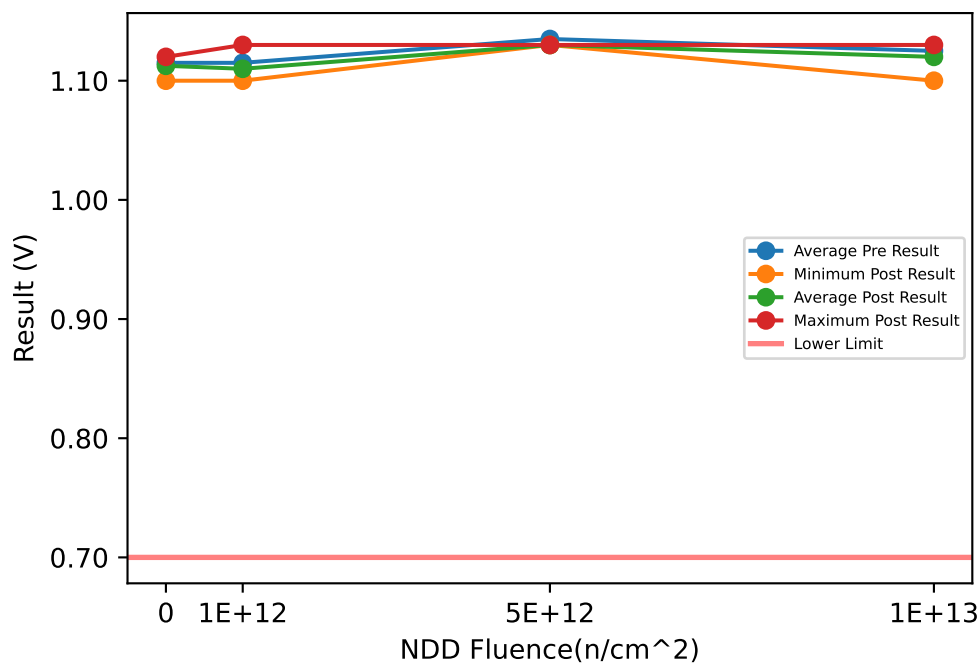
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4	1.4075	1.42	0.0095743	1.39	1.405	1.42	0.01291	-0.01	-0.0025	0	0.005
1e+12	1.4	1.42	1.43	0.014142	1.4	1.4175	1.43	0.012583	-0.01	-0.0025	0	0.005
5e+12	1.43	1.43	1.43	0	1.42	1.42	1.42	0	-0.01	-0.01	-0.01	0
1e+13	1.4	1.42	1.43	0.014142	1.4	1.4125	1.42	0.0095743	-0.01	-0.0075	0	0.005

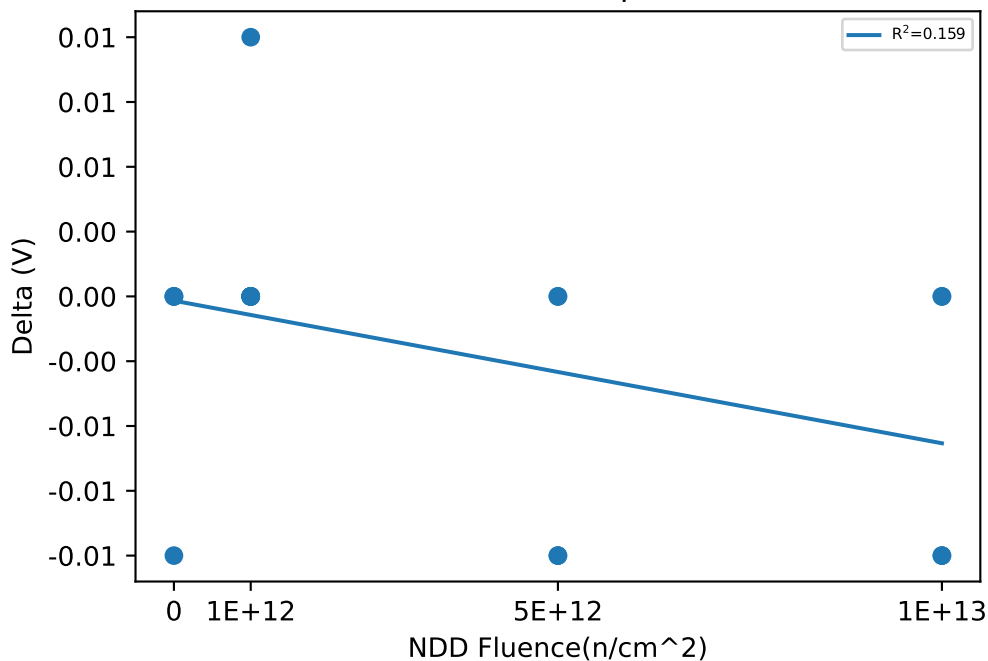
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.1	1.1	0
171	1e+12	NDD	1.13	1.13	0
269	1e+12	NDD	1.11	1.12	0.01
337	1e+12	NDD	1.12	1.12	0
357	5e+12	NDD	1.13	1.13	0
361	5e+12	NDD	1.14	1.13	-0.01
373	5e+12	NDD	1.13	1.13	0
412	5e+12	NDD	1.14	1.13	-0.01
470	1e+13	NDD	1.12	1.12	0
498	1e+13	NDD	1.14	1.13	-0.01
503	1e+13	NDD	1.14	1.13	-0.01
540	1e+13	NDD	1.1	1.1	0
553	0	CORRELATION	1.12	1.12	0
586	0	CORRELATION	1.12	1.11	-0.01
634	0	CORRELATION	1.12	1.12	0
635	0	CORRELATION	1.1	1.1	0

NDD vs Post - Pre Exposure Delta

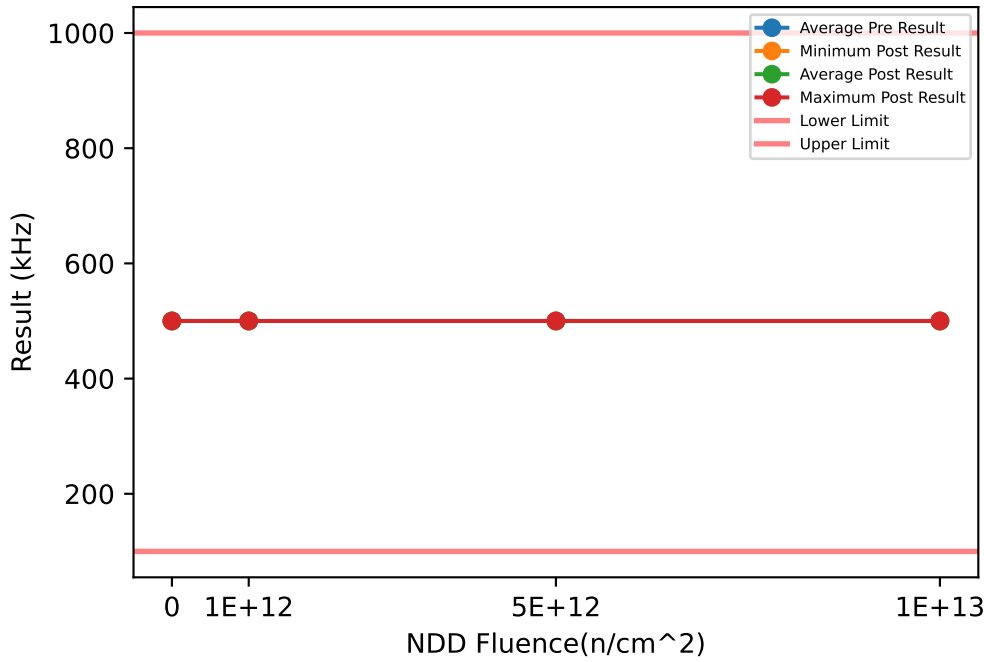


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1	1.115	1.12	0.01	1.1	1.1125	1.12	0.0095743	-0.01	-0.0025	0	0.005
1e+12	1.1	1.115	1.13	0.01291	1.1	1.1175	1.13	0.012583	0	0.0025	0.01	0.005
5e+12	1.13	1.135	1.14	0.0057735	1.13	1.13	1.13	0	-0.01	-0.005	0	0.0057735
1e+13	1.1	1.125	1.14	0.019149	1.1	1.12	1.13	0.014142	-0.01	-0.005	0	0.0057735

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

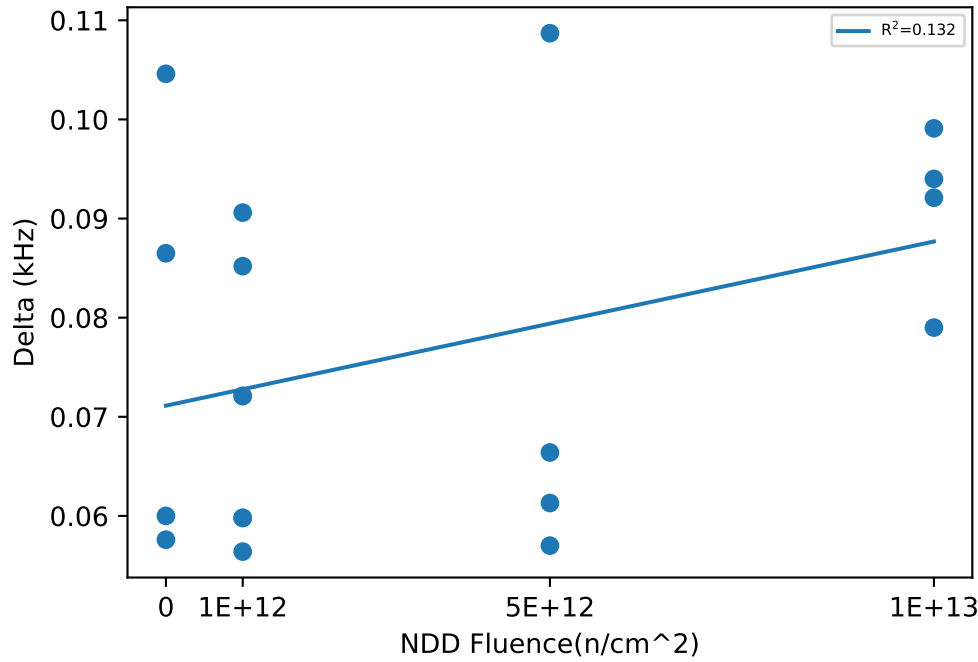
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	499.95	500.02	0.0721
171	1e+12	NDD	499.94	500.04	0.0906
269	1e+12	NDD	500	500.06	0.0564
337	1e+12	NDD	499.97	500.05	0.0852
357	5e+12	NDD	499.93	500	0.0664
361	5e+12	NDD	499.94	500.05	0.1087
373	5e+12	NDD	499.97	500.02	0.057
412	5e+12	NDD	499.97	500.03	0.0613
470	1e+13	NDD	499.94	500.02	0.079
498	1e+13	NDD	499.96	500.06	0.0991
503	1e+13	NDD	499.96	500.06	0.0921
540	1e+13	NDD	499.96	500.05	0.094
553	0	CORRELATION	499.96	500.01	0.0576
586	0	CORRELATION	499.97	500.06	0.0865
634	0	CORRELATION	499.98	500.04	0.06
635	0	CORRELATION	499.96	500.07	0.1046

NDD vs Post - Pre Exposure Delta

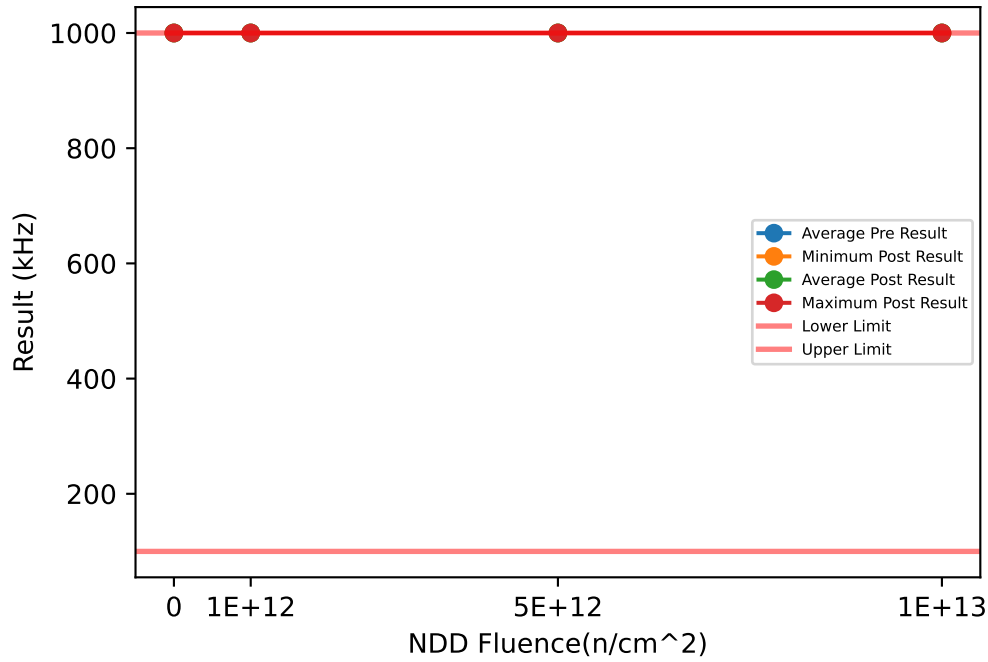


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.96	499.97	499.98	0.011376	500.01	500.04	500.07	0.023925	0.0576	0.077175	0.1046	0.022489
1e+12	499.94	499.97	500	0.02452	500.02	500.04	500.06	0.015119	0.0564	0.076075	0.0906	0.015244
5e+12	499.93	499.95	499.97	0.016631	500	500.03	500.05	0.021141	0.057	0.07335	0.1087	0.023878
1e+13	499.94	499.96	499.96	0.011174	500.02	500.05	500.06	0.018996	0.079	0.09105	0.0991	0.0085598

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

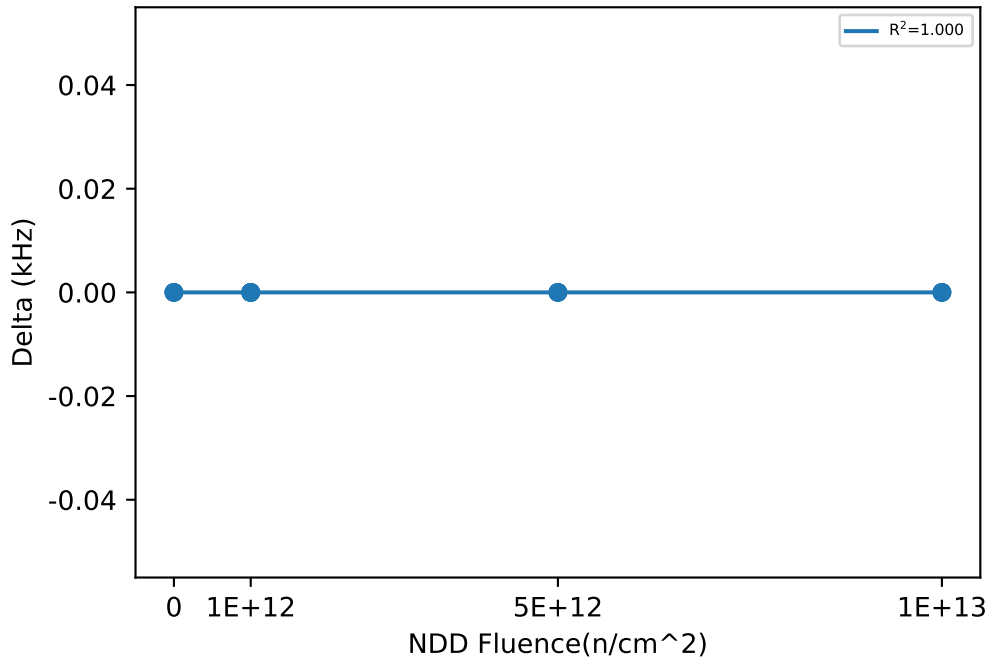
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1000	1000	0
171	1e+12	NDD	1000	1000	0
269	1e+12	NDD	1000	1000	0
337	1e+12	NDD	1000	1000	0
357	5e+12	NDD	1000	1000	0
361	5e+12	NDD	1000	1000	0
373	5e+12	NDD	1000	1000	0
412	5e+12	NDD	1000	1000	0
470	1e+13	NDD	1000	1000	0
498	1e+13	NDD	1000	1000	0
503	1e+13	NDD	1000	1000	0
540	1e+13	NDD	1000	1000	0
553	0	CORRELATION	1000	1000	0
586	0	CORRELATION	1000	1000	0
634	0	CORRELATION	1000	1000	0
635	0	CORRELATION	1000	1000	0

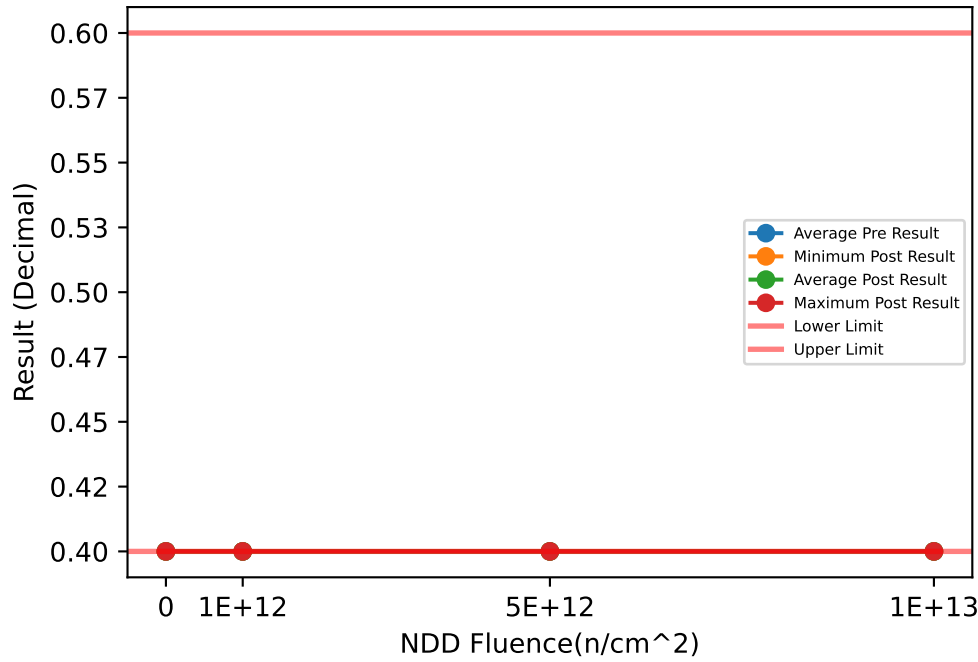
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

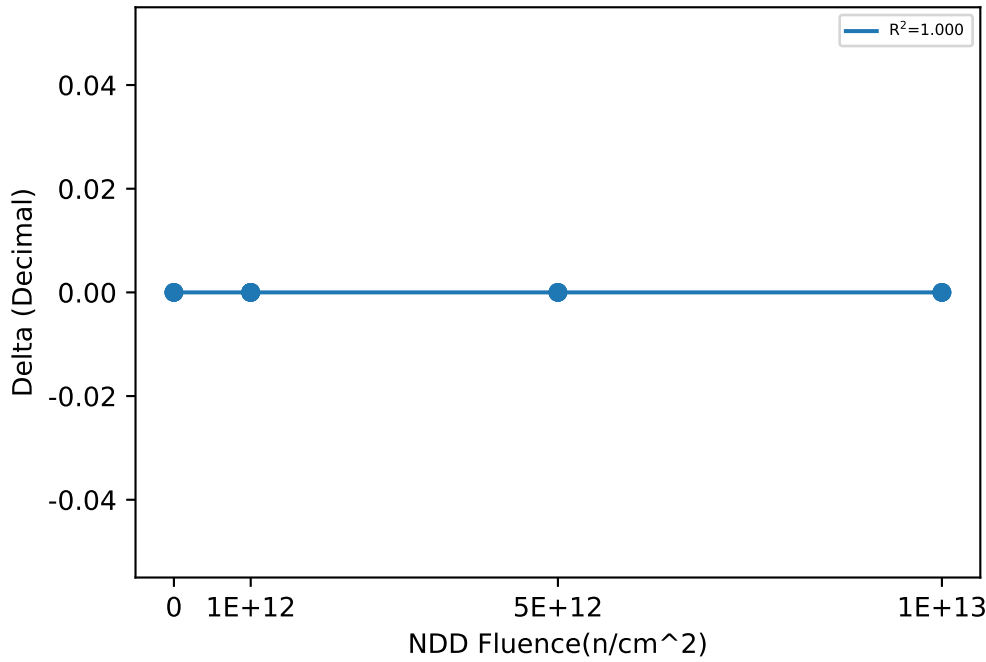
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.4	0.4	0
171	1e+12	NDD	0.4	0.4	0
269	1e+12	NDD	0.4	0.4	0
337	1e+12	NDD	0.4	0.4	0
357	5e+12	NDD	0.4	0.4	0
361	5e+12	NDD	0.4	0.4	0
373	5e+12	NDD	0.4	0.4	0
412	5e+12	NDD	0.4	0.4	0
470	1e+13	NDD	0.4	0.4	0
498	1e+13	NDD	0.4	0.4	0
503	1e+13	NDD	0.4	0.4	0
540	1e+13	NDD	0.4	0.4	0
553	0	CORRELATION	0.4	0.4	0
586	0	CORRELATION	0.4	0.4	0
634	0	CORRELATION	0.4	0.4	0
635	0	CORRELATION	0.4	0.4	0

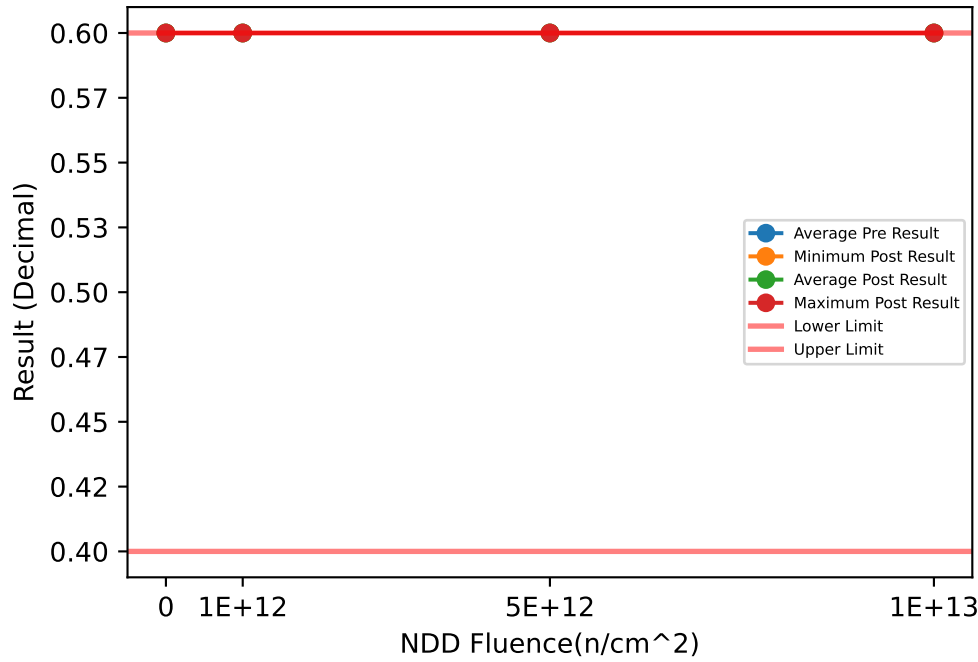
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

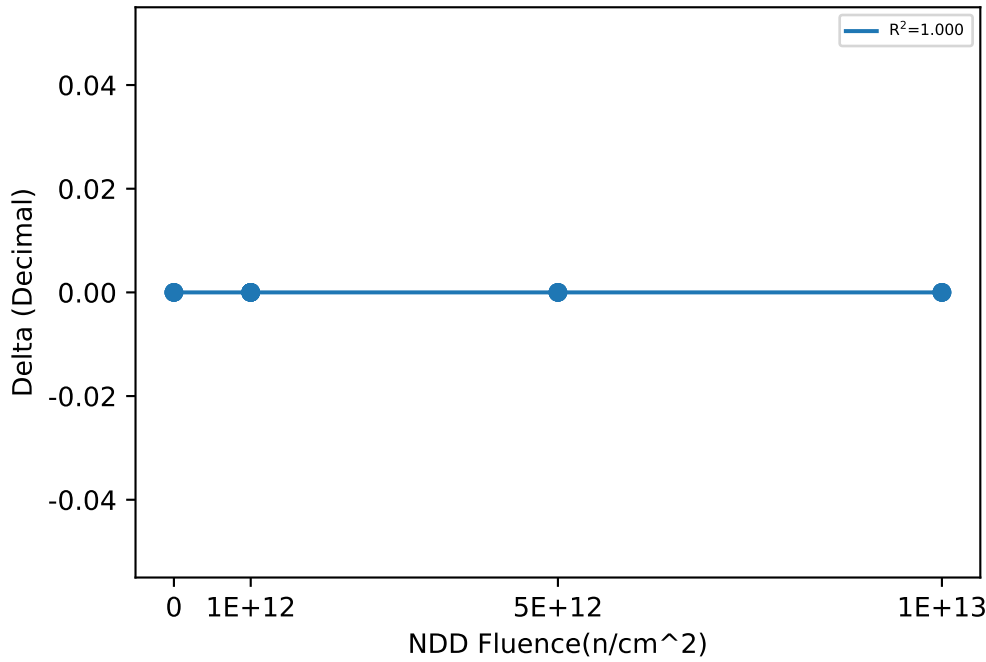
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.6	0
171	1e+12	NDD	0.6	0.6	0
269	1e+12	NDD	0.6	0.6	0
337	1e+12	NDD	0.6	0.6	0
357	5e+12	NDD	0.6	0.6	0
361	5e+12	NDD	0.6	0.6	0
373	5e+12	NDD	0.6	0.6	0
412	5e+12	NDD	0.6	0.6	0
470	1e+13	NDD	0.6	0.6	0
498	1e+13	NDD	0.6	0.6	0
503	1e+13	NDD	0.6	0.6	0
540	1e+13	NDD	0.6	0.6	0
553	0	CORRELATION	0.6	0.6	0
586	0	CORRELATION	0.6	0.6	0
634	0	CORRELATION	0.6	0.6	0
635	0	CORRELATION	0.6	0.6	0

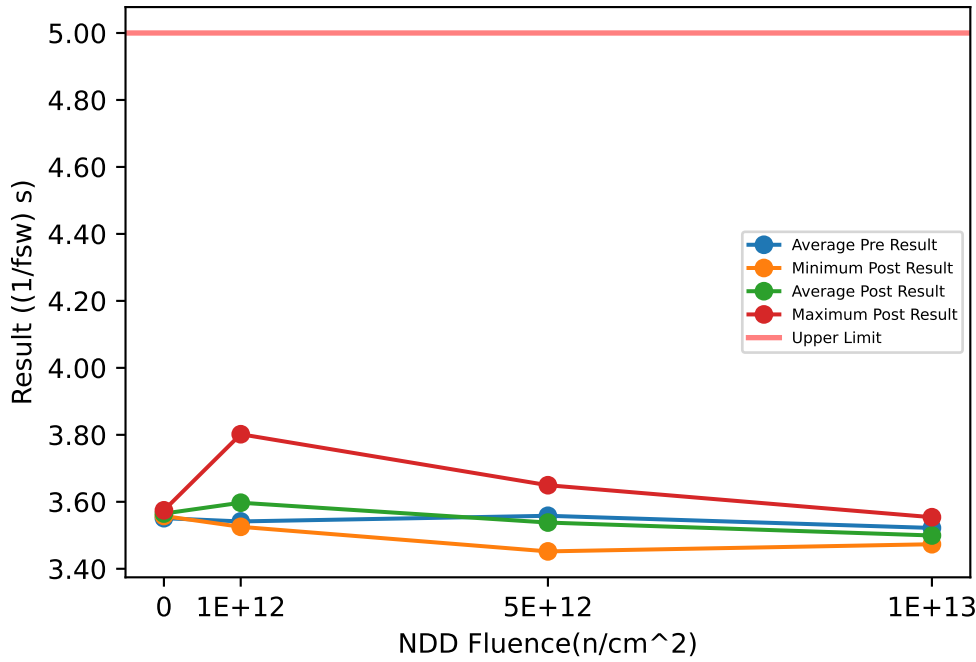
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

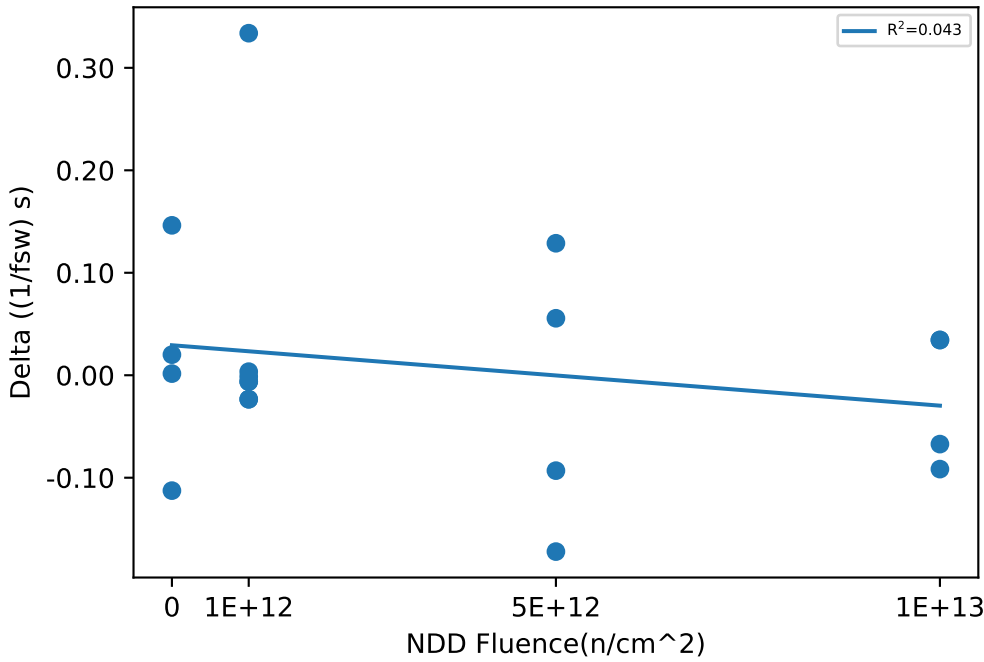
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.5796	3.5562	-0.0234
171	1e+12	NDD	3.468	3.8018	0.3338
269	1e+12	NDD	3.5266	3.5253	-0.0013
337	1e+12	NDD	3.5913	3.5948	0.0035
357	5e+12	NDD	3.545	3.4519	-0.0931
361	5e+12	NDD	3.5207	3.6495	0.1288
373	5e+12	NDD	3.6735	3.5014	-0.1721
412	5e+12	NDD	3.4938	3.5494	0.0556
470	1e+13	NDD	3.4395	3.474	0.0345
498	1e+13	NDD	3.5635	3.4963	-0.0672
503	1e+13	NDD	3.5197	3.554	0.0343
540	1e+13	NDD	3.5649	3.4733	-0.0916
553	0	CORRELATION	3.6872	3.5746	-0.1126
586	0	CORRELATION	3.556	3.5576	0.0016
634	0	CORRELATION	3.4204	3.5667	0.1463
635	0	CORRELATION	3.5407	3.5608	0.0201

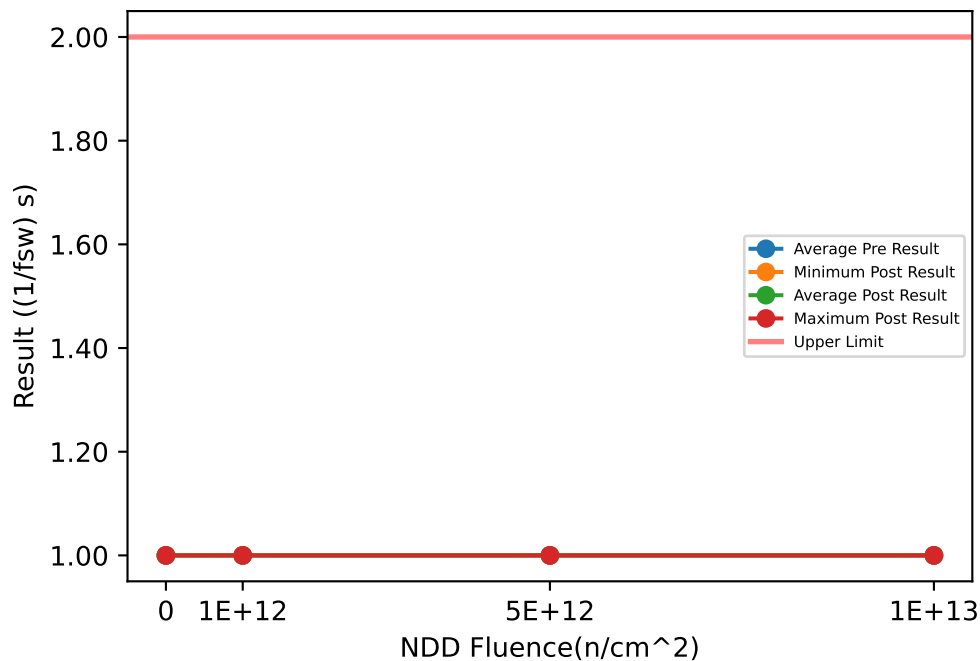
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) s)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4204	3.5511	3.6872	0.10914	3.5576	3.5649	3.5746	0.0074706	-0.1126	0.01385	0.1463	0.10602
1e+12	3.468	3.5414	3.5913	0.056438	3.5253	3.6195	3.8018	0.1248	-0.0234	0.07815	0.3338	0.17084
5e+12	3.4938	3.5583	3.6735	0.079628	3.4519	3.5381	3.6495	0.084291	-0.1721	-0.0202	0.1288	0.13703
1e+13	3.4395	3.5219	3.5649	0.058805	3.4733	3.4994	3.554	0.037935	-0.0916	-0.0225	0.0345	0.066453

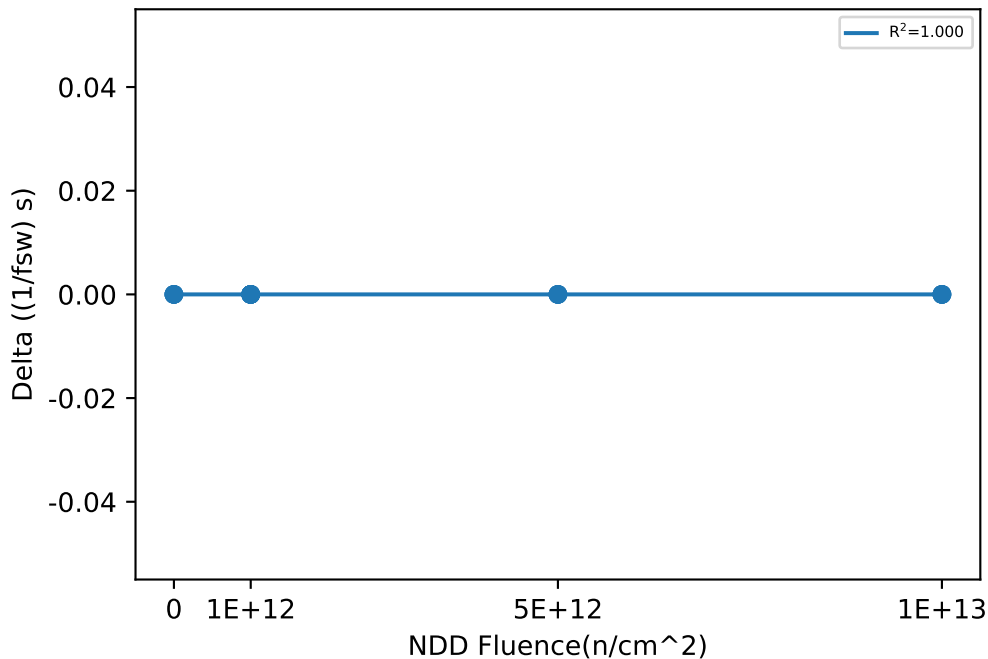
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1	1	0
171	1e+12	NDD	1	1	0
269	1e+12	NDD	1	1	0
337	1e+12	NDD	1	1	0
357	5e+12	NDD	1	1	0
361	5e+12	NDD	1	1	0
373	5e+12	NDD	1	1	0
412	5e+12	NDD	1	1	0
470	1e+13	NDD	1	1	0
498	1e+13	NDD	1	1	0
503	1e+13	NDD	1	1	0
540	1e+13	NDD	1	1	0
553	0	CORRELATION	1	1	0
586	0	CORRELATION	1	1	0
634	0	CORRELATION	1	1	0
635	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

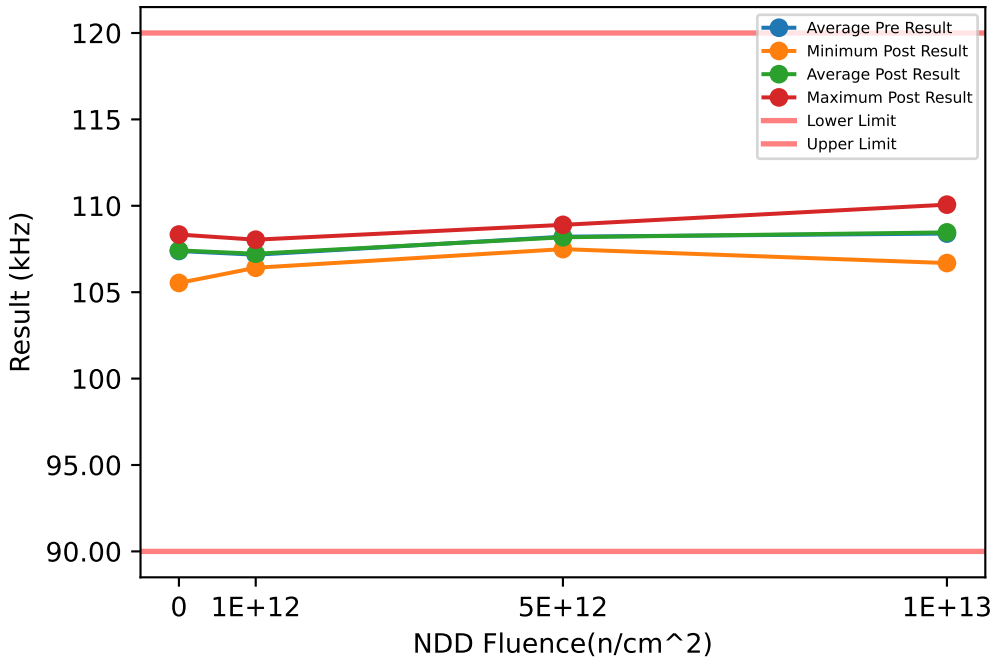


Test Statistics ((1/fsw) s)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

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

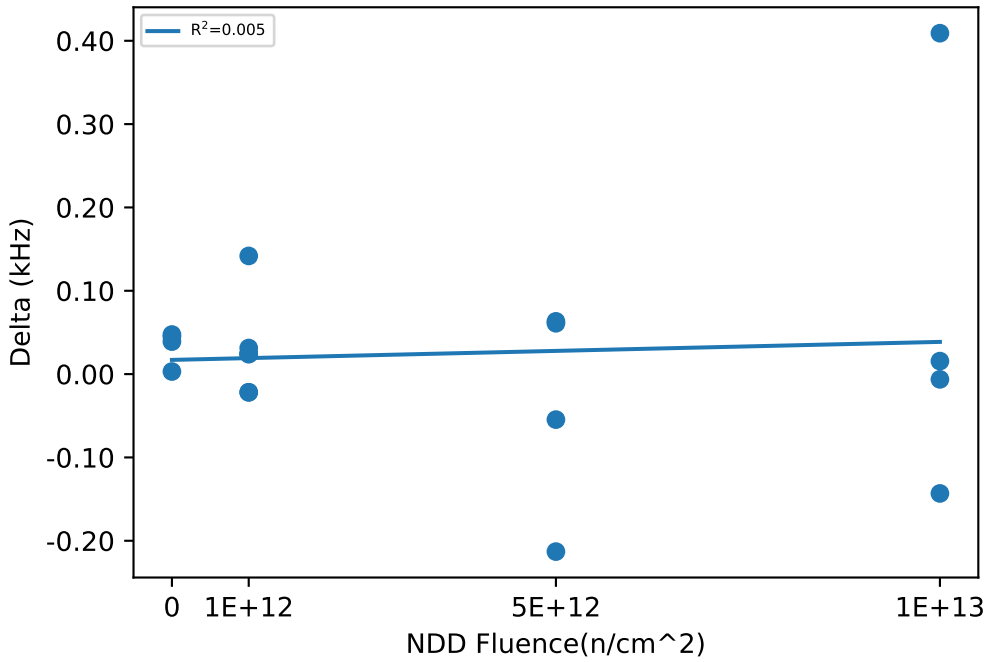
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	107.23	107.26	0.0241
171	1e+12	NDD	106.27	106.41	0.1418
269	1e+12	NDD	108.01	108.04	0.0313
337	1e+12	NDD	107.16	107.19	0.0245
357	5e+12	NDD	107.71	107.49	-0.213
361	5e+12	NDD	108.49	108.55	0.061
373	5e+12	NDD	108.95	108.9	-0.0546
412	5e+12	NDD	107.7	107.77	0.0633
470	1e+13	NDD	108.16	108.16	-0.0063
498	1e+13	NDD	106.67	106.69	0.0156
503	1e+13	NDD	108.53	108.94	0.4091
540	1e+13	NDD	110.21	110.07	-0.1432
553	0	CORRELATION	105.49	105.54	0.0449
586	0	CORRELATION	108.29	108.34	0.0475
634	0	CORRELATION	107.97	108	0.039
635	0	CORRELATION	107.8	107.8	0.0031

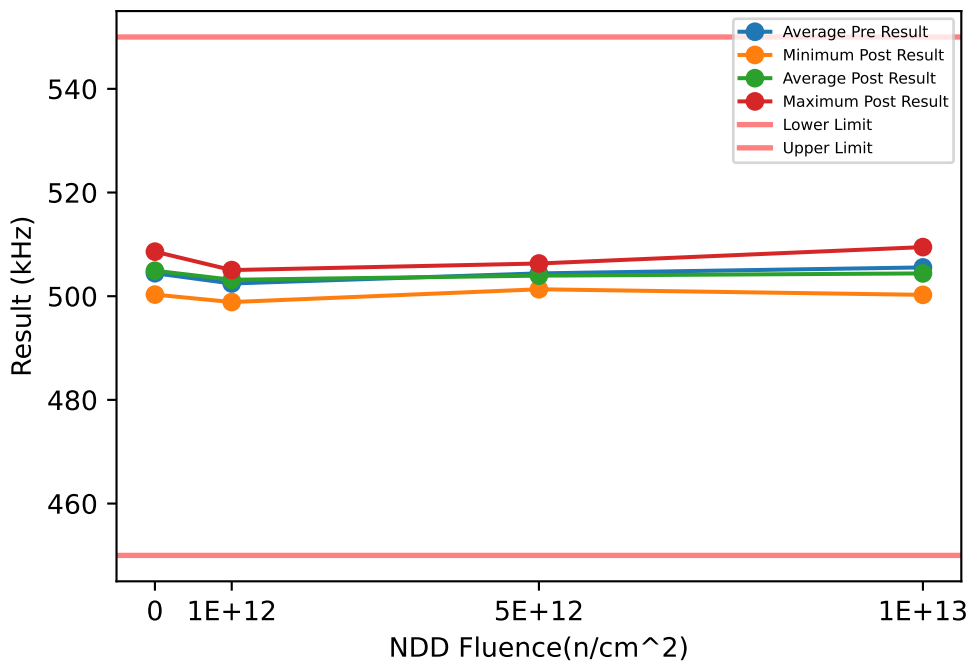
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	105.49	107.39	108.29	1.2799	105.54	107.42	108.34	1.2753	0.0031	0.033625	0.0475	0.020658
1e+12	106.27	107.17	108.01	0.70983	106.41	107.22	108.04	0.66397	0.0241	0.055425	0.1418	0.057678
5e+12	107.7	108.21	108.95	0.61604	107.49	108.18	108.9	0.65692	-0.213	-0.035825	0.0633	0.13031
1e+13	106.67	108.39	110.21	1.4531	106.69	108.46	110.07	1.4194	-0.1432	0.0688	0.4091	0.2375

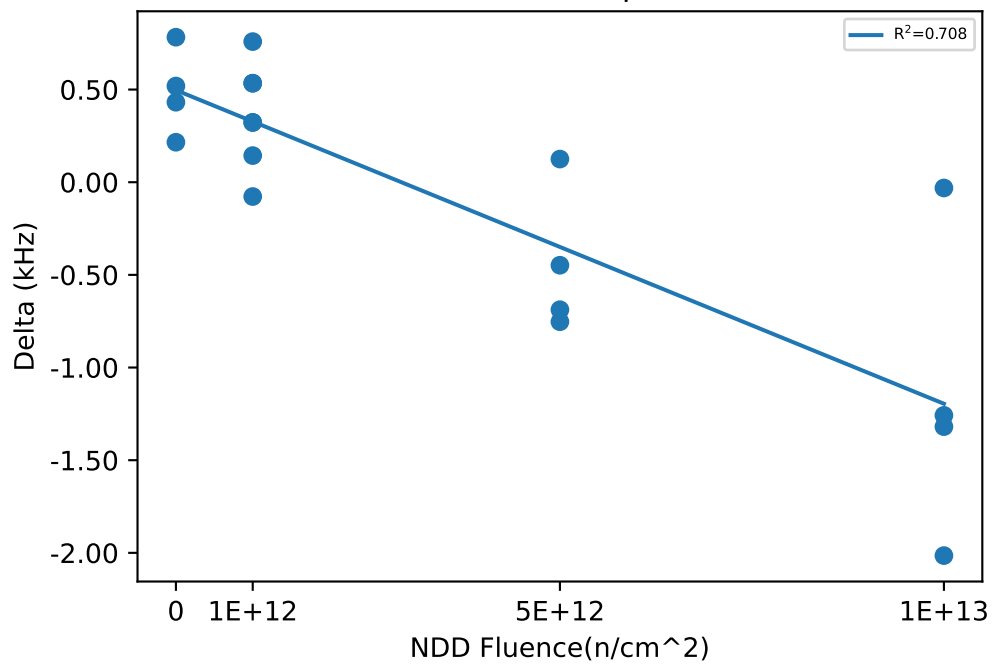
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	503.29	503.82	0.5342
171	1e+12	NDD	498.11	498.87	0.7588
269	1e+12	NDD	503.28	503.42	0.1437
337	1e+12	NDD	505.12	505.04	-0.0773
357	5e+12	NDD	502.09	501.34	-0.7527
361	5e+12	NDD	505.82	505.95	0.1249
373	5e+12	NDD	506.76	506.31	-0.448
412	5e+12	NDD	502.94	502.25	-0.688
470	1e+13	NDD	506.13	504.81	-1.3189
498	1e+13	NDD	501.52	500.26	-1.2581
503	1e+13	NDD	503.07	503.04	-0.0311
540	1e+13	NDD	511.48	509.47	-2.0148
553	0	CORRELATION	499.88	500.31	0.4316
586	0	CORRELATION	502.41	503.19	0.7825
634	0	CORRELATION	507.05	507.57	0.519
635	0	CORRELATION	508.38	508.6	0.2157

NDD vs Post - Pre Exposure Delta

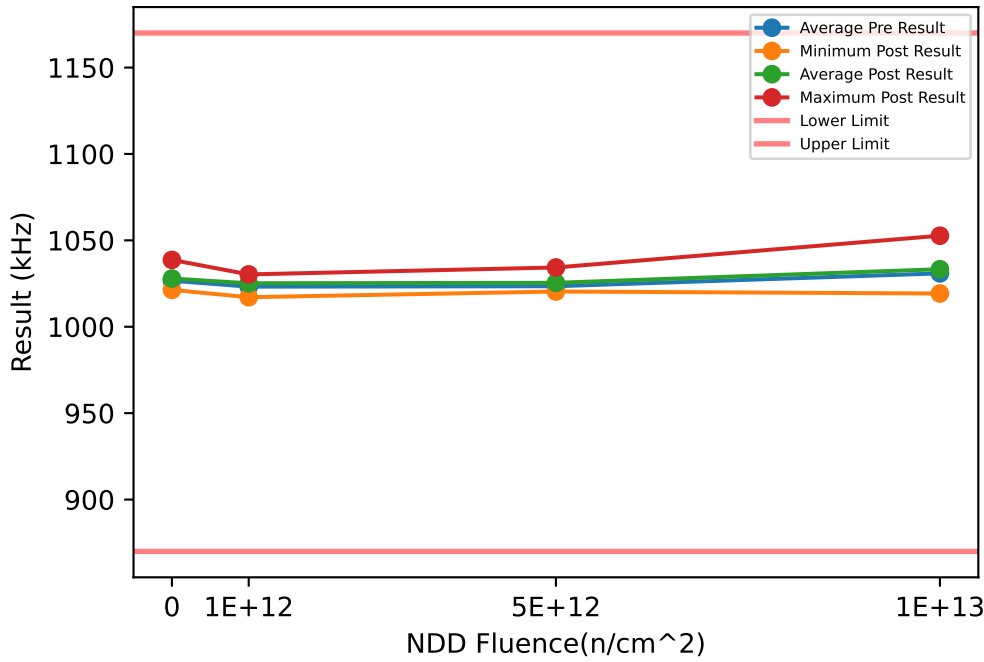


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.88	504.43	508.38	3.9676	500.31	504.92	508.6	3.8612	0.2157	0.4872	0.7825	0.23453
1e+12	498.11	502.45	505.12	3.0185	498.87	502.79	505.04	2.7018	-0.0773	0.33985	0.7588	0.37673
5e+12	502.09	504.4	506.76	2.2389	501.34	503.96	506.31	2.5333	-0.7527	-0.44095	0.1249	0.39936
1e+13	501.52	505.55	511.48	4.3949	500.26	504.4	509.47	3.8663	-2.0148	-1.1557	-0.0311	0.8246

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

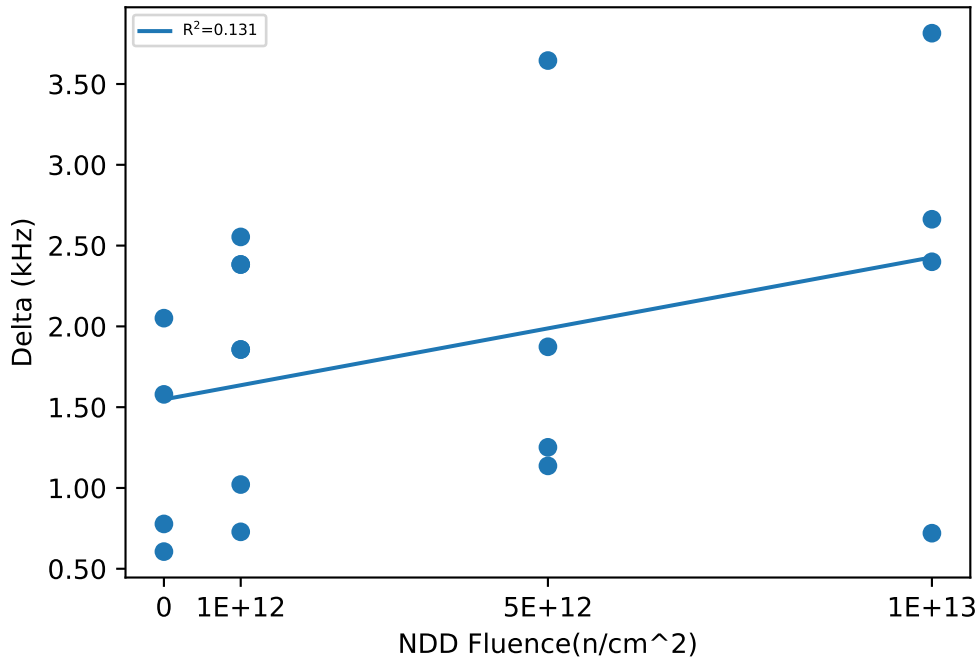
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1023.5	1025.9	2.3831
171	1e+12	NDD	1014.5	1017.1	2.5537
269	1e+12	NDD	1029.6	1030.3	0.7285
337	1e+12	NDD	1025.2	1026.2	1.0212
357	5e+12	NDD	1019.3	1020.4	1.1367
361	5e+12	NDD	1030.7	1034.3	3.6452
373	5e+12	NDD	1021.8	1023	1.2516
412	5e+12	NDD	1022.1	1024	1.8736
470	1e+13	NDD	1027.5	1030.2	2.663
498	1e+13	NDD	1028.7	1031.1	2.3999
503	1e+13	NDD	1015.4	1019.2	3.8145
540	1e+13	NDD	1052	1052.7	0.7201
553	0	CORRELATION	1019.3	1021.3	2.0509
586	0	CORRELATION	1021.4	1023	1.5792
634	0	CORRELATION	1028	1028.6	0.6062
635	0	CORRELATION	1037.9	1038.7	0.7774

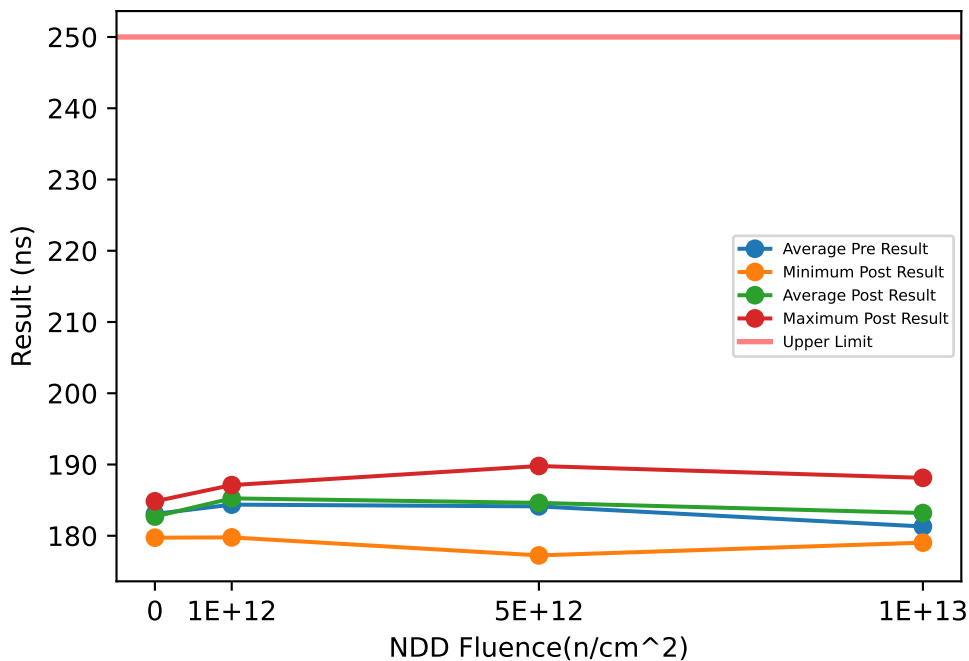
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1019.3	1026.6	1037.9	8.3757	1021.3	1027.9	1038.7	7.836	0.6062	1.2534	2.0509	0.6801
1e+12	1014.5	1023.2	1029.6	6.318	1017.1	1024.9	1030.3	5.5636	0.7285	1.6716	2.5537	0.93037
5e+12	1019.3	1023.5	1030.7	4.9686	1020.4	1025.4	1034.3	6.106	1.1367	1.9768	3.6452	1.1584
1e+13	1015.4	1030.9	1052	15.269	1019.2	1033.3	1052.7	14	0.7201	2.3994	3.8145	1.277

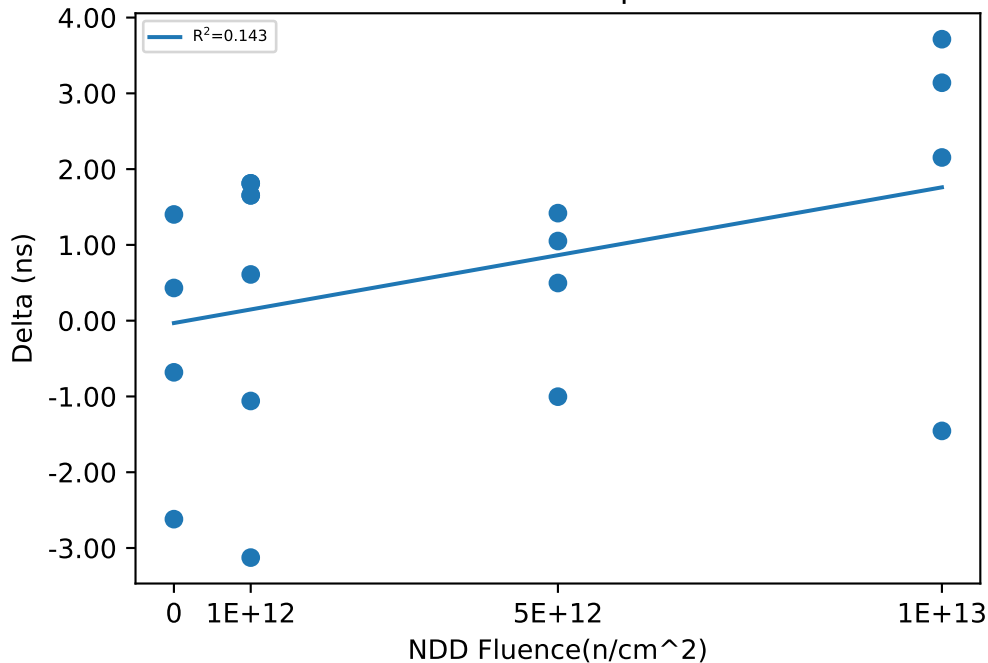
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	185.3	187.11	1.8121
171	1e+12	NDD	180.83	179.77	-1.0598
269	1e+12	NDD	185.53	186.14	0.61
337	1e+12	NDD	185.82	182.69	-3.1266
357	5e+12	NDD	185.3	186.72	1.4192
361	5e+12	NDD	176.19	177.25	1.051
373	5e+12	NDD	184.22	184.71	0.497
412	5e+12	NDD	190.79	189.79	-1.0029
470	1e+13	NDD	181.58	183.73	2.1537
498	1e+13	NDD	178.73	181.87	3.14
503	1e+13	NDD	184.41	188.13	3.7146
540	1e+13	NDD	180.49	179.03	-1.4547
553	0	CORRELATION	183.43	184.84	1.4018
586	0	CORRELATION	180.41	179.73	-0.6816
634	0	CORRELATION	182.48	182.91	0.4316
635	0	CORRELATION	185.93	183.31	-2.6194

NDD vs Post - Pre Exposure Delta

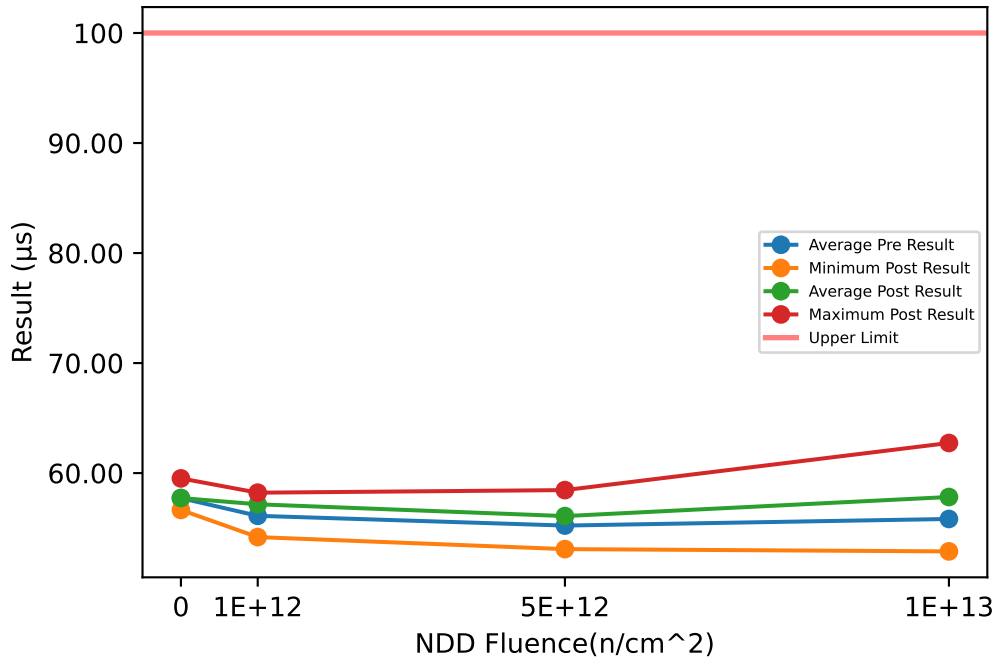


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	180.41	183.06	185.93	2.2881	179.73	182.7	184.84	2.1438	-2.6194	-0.3669	1.4018	1.7261
1e+12	180.83	184.37	185.82	2.3686	179.77	183.93	187.11	3.3592	-3.1266	-0.44108	1.8121	2.1429
5e+12	176.19	184.13	190.79	6.0212	177.25	184.62	189.79	5.3399	-1.0029	0.49108	1.4192	1.0657
1e+13	178.73	181.3	184.41	2.3823	179.03	183.19	188.13	3.8161	-1.4547	1.8884	3.7146	2.3201

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

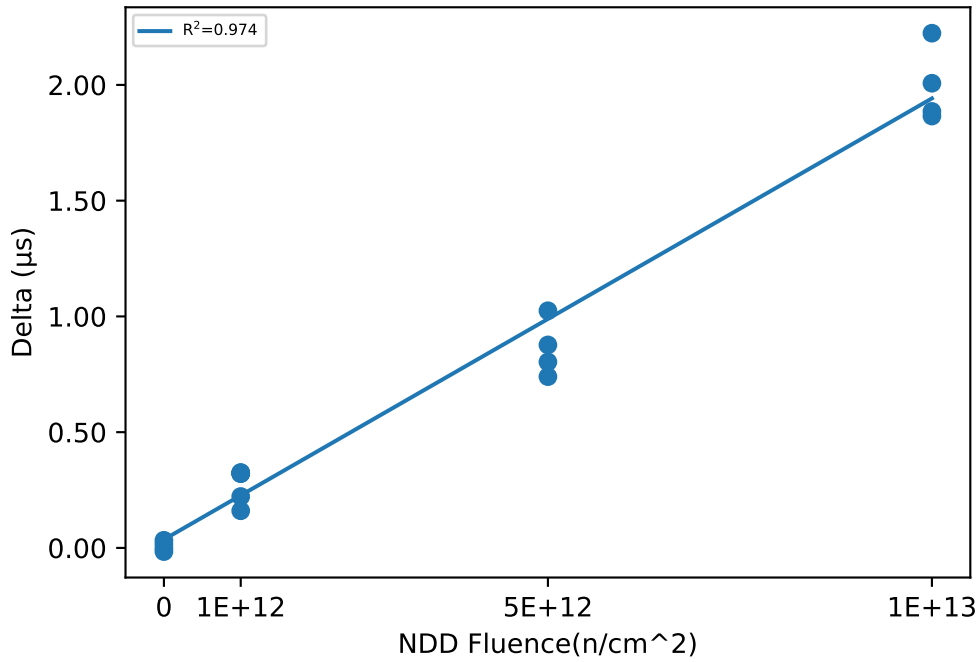
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	57.897	58.218	0.3211
171	1e+12	NDD	57.721	57.943	0.2221
269	1e+12	NDD	54.994	55.154	0.1604
337	1e+12	NDD	53.858	54.184	0.3259
357	5e+12	NDD	56.772	57.512	0.7398
361	5e+12	NDD	57.43	58.454	1.0245
373	5e+12	NDD	54.436	55.313	0.8769
412	5e+12	NDD	52.288	53.091	0.8034
470	1e+13	NDD	56.508	58.515	2.0073
498	1e+13	NDD	60.513	62.736	2.2234
503	1e+13	NDD	55.286	57.171	1.8855
540	1e+13	NDD	51.018	52.883	1.8655
553	0	CORRELATION	59.52	59.518	-0.0014
586	0	CORRELATION	56.668	56.652	-0.0159
634	0	CORRELATION	58.074	58.091	0.0168
635	0	CORRELATION	56.64	56.673	0.0331

NDD vs Post - Pre Exposure Delta

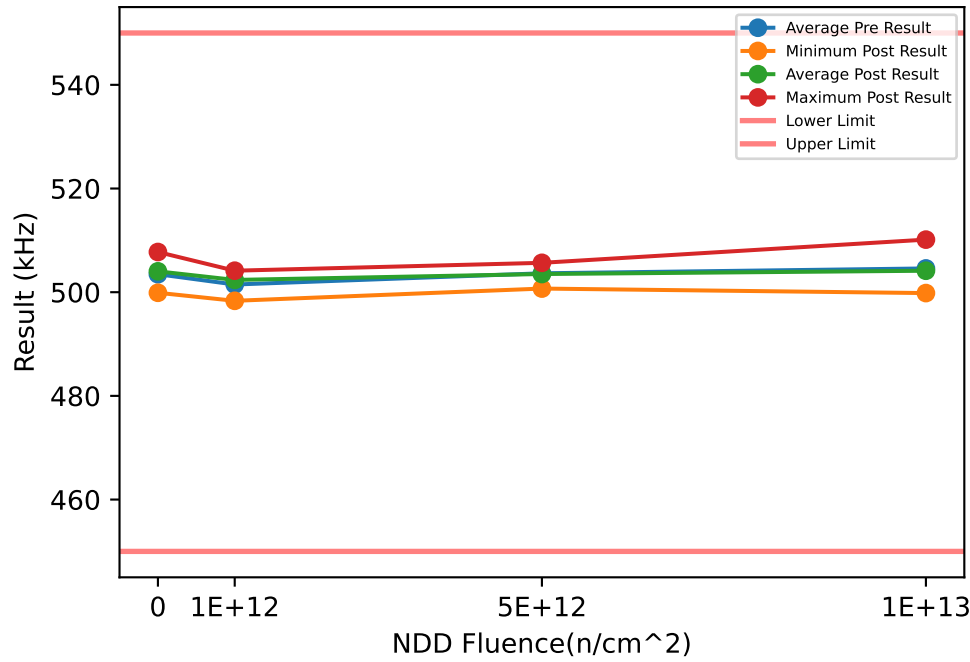


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	56.64	57.725	59.52	1.371	56.652	57.733	59.518	1.3673	-0.0159	0.00815	0.0331	0.021346
1e+12	53.858	56.117	57.897	2.0086	54.184	56.375	58.218	2.012	0.1604	0.25738	0.3259	0.080426
5e+12	52.288	55.231	57.43	2.3456	53.091	56.093	58.454	2.3951	0.7398	0.86115	1.0245	0.12246
1e+13	51.018	55.831	60.513	3.909	52.883	57.826	62.736	4.0597	1.8655	1.9954	2.2234	0.1644

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

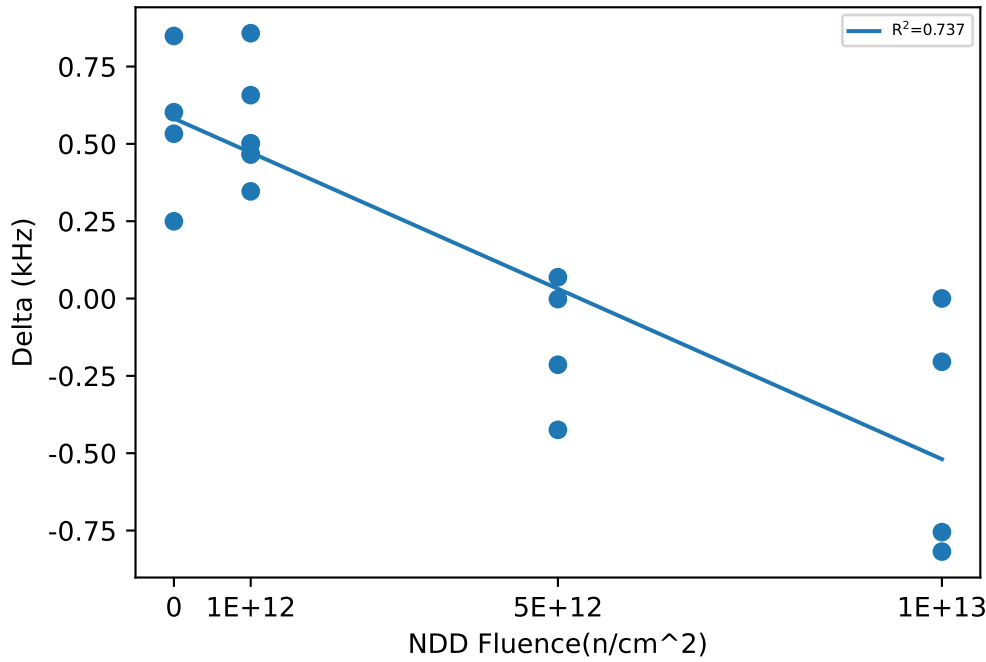
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	502.28	502.79	0.5016
171	1e+12	NDD	497.48	498.34	0.8578
269	1e+12	NDD	502.36	503.02	0.6575
337	1e+12	NDD	503.8	504.15	0.3465
357	5e+12	NDD	501.12	500.7	-0.4245
361	5e+12	NDD	505.46	505.46	-0.0018
373	5e+12	NDD	505.6	505.67	0.0689
412	5e+12	NDD	502.41	502.19	-0.214
470	1e+13	NDD	504.69	504.49	-0.2044
498	1e+13	NDD	500.65	499.83	-0.8181
503	1e+13	NDD	502.1	502.1	0.0003
540	1e+13	NDD	510.9	510.14	-0.7551
553	0	CORRELATION	499.36	499.89	0.5328
586	0	CORRELATION	501.43	502.28	0.8488
634	0	CORRELATION	505.58	506.18	0.6023
635	0	CORRELATION	507.5	507.75	0.2497

NDD vs Post - Pre Exposure Delta

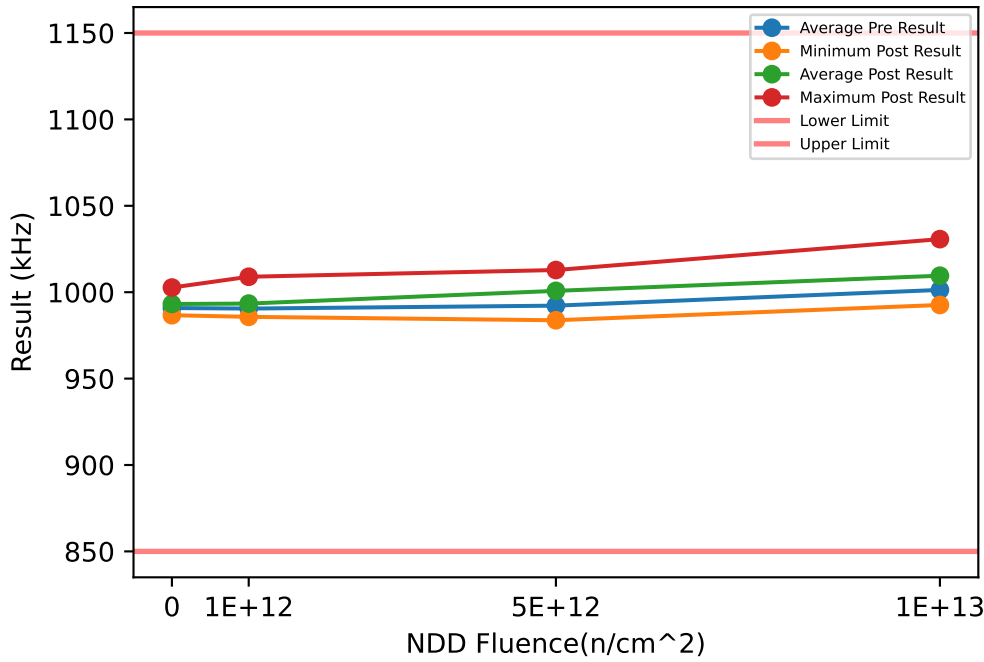


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.36	503.47	507.5	3.7318	499.89	504.03	507.75	3.591	0.2497	0.5584	0.8488	0.24645
1e+12	497.48	501.48	503.8	2.7567	498.34	502.07	504.15	2.5591	0.3465	0.59085	0.8578	0.21861
5e+12	501.12	503.65	505.6	2.2357	500.7	503.5	505.67	2.4549	-0.4245	-0.14285	0.0689	0.22295
1e+13	500.65	504.58	510.9	4.5288	499.83	504.14	510.14	4.4301	-0.8181	-0.44433	0.0003	0.40478

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

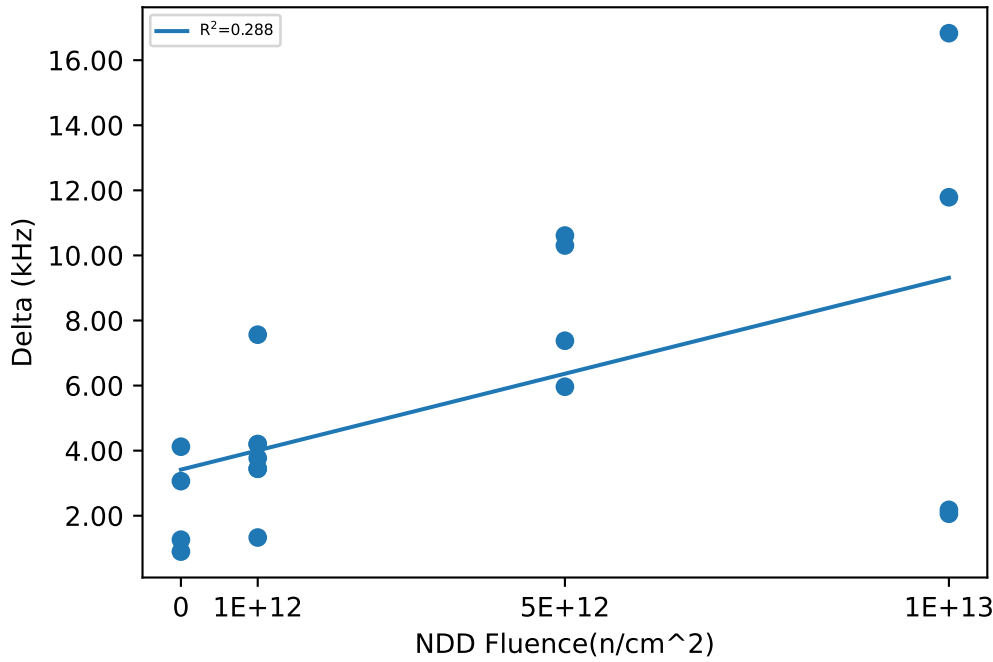
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	987.93	992.13	4.2005
171	1e+12	NDD	984.58	992.15	7.564
269	1e+12	NDD	1007.6	1008.9	1.3301
337	1e+12	NDD	981.97	985.74	3.7706
357	5e+12	NDD	993.09	1000.5	7.3779
361	5e+12	NDD	1002.2	1012.8	10.611
373	5e+12	NDD	977.8	983.76	5.9641
412	5e+12	NDD	995.73	1006	10.305
470	1e+13	NDD	992.14	1003.9	11.788
498	1e+13	NDD	1008.7	1010.9	2.1803
503	1e+13	NDD	975.78	992.61	16.829
540	1e+13	NDD	1028.6	1030.7	2.0607
553	0	CORRELATION	987.31	991.43	4.121
586	0	CORRELATION	990.97	991.87	0.8977
634	0	CORRELATION	985.42	986.69	1.2635
635	0	CORRELATION	999.63	1002.7	3.0629

NDD vs Post - Pre Exposure Delta

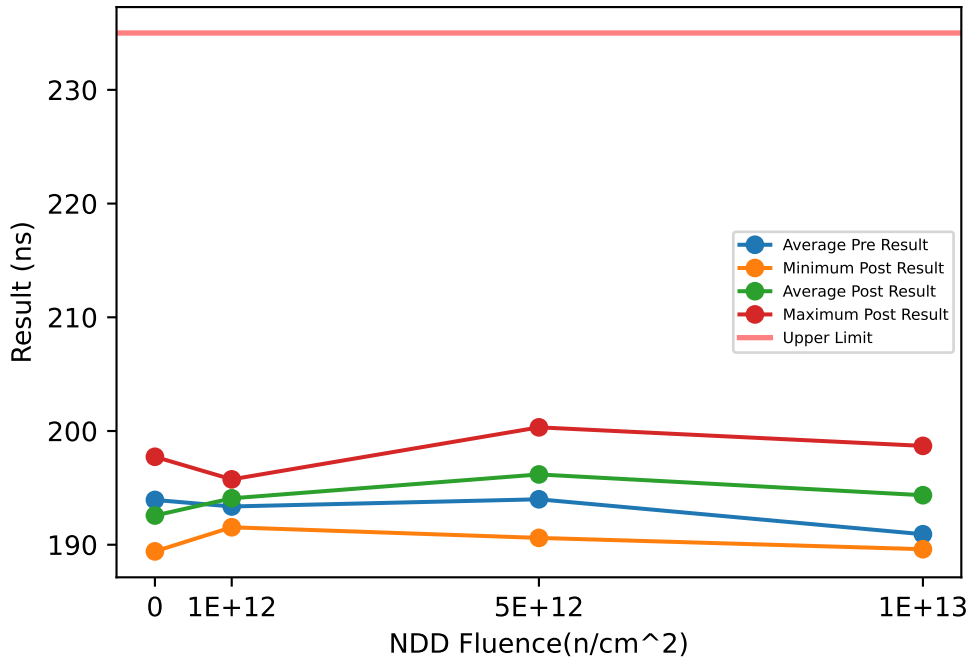


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	985.42	990.83	999.63	6.2998	986.69	993.17	1002.7	6.7677	0.8977	2.3363	4.121	1.5203
1e+12	981.97	990.52	1007.6	11.65	985.74	994.74	1008.9	9.9363	1.3301	4.2163	7.564	2.5649
5e+12	977.8	992.21	1002.2	10.346	983.76	1000.8	1012.8	12.418	5.9641	8.5646	10.611	2.2649
1e+13	975.78	1001.3	1028.6	22.643	992.61	1009.5	1030.7	16	2.0607	8.2145	16.829	7.3317

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

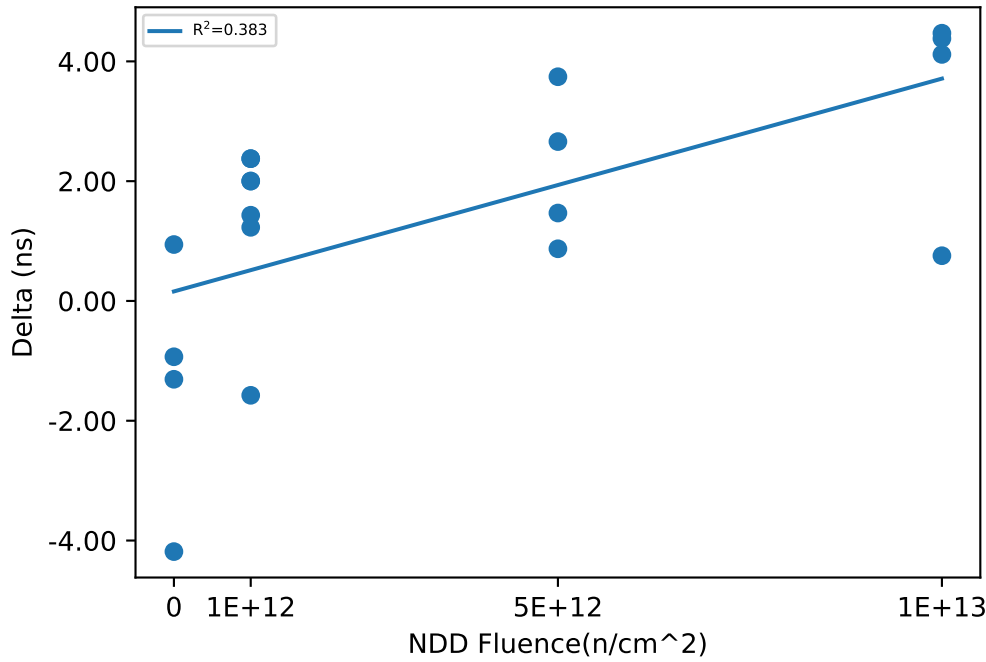
NDD vs Result Stats



Test Results (Upper Limit = 235.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	191.76	194.13	2.3758
171	1e+12	NDD	190.31	191.54	1.2295
269	1e+12	NDD	194.06	195.5	1.4316
337	1e+12	NDD	197.32	195.75	-1.5753
357	5e+12	NDD	193.55	197.29	3.7436
361	5e+12	NDD	187.94	190.6	2.661
373	5e+12	NDD	195.05	196.51	1.4681
412	5e+12	NDD	199.45	200.32	0.8712
470	1e+13	NDD	191.65	195.77	4.1162
498	1e+13	NDD	188.88	193.35	4.4705
503	1e+13	NDD	194.31	198.69	4.3818
540	1e+13	NDD	188.85	189.61	0.7554
553	0	CORRELATION	196.79	197.74	0.9421
586	0	CORRELATION	190.35	189.41	-0.9318
634	0	CORRELATION	193.34	192.03	-1.3076
635	0	CORRELATION	195.28	191.1	-4.1847

NDD vs Post - Pre Exposure Delta

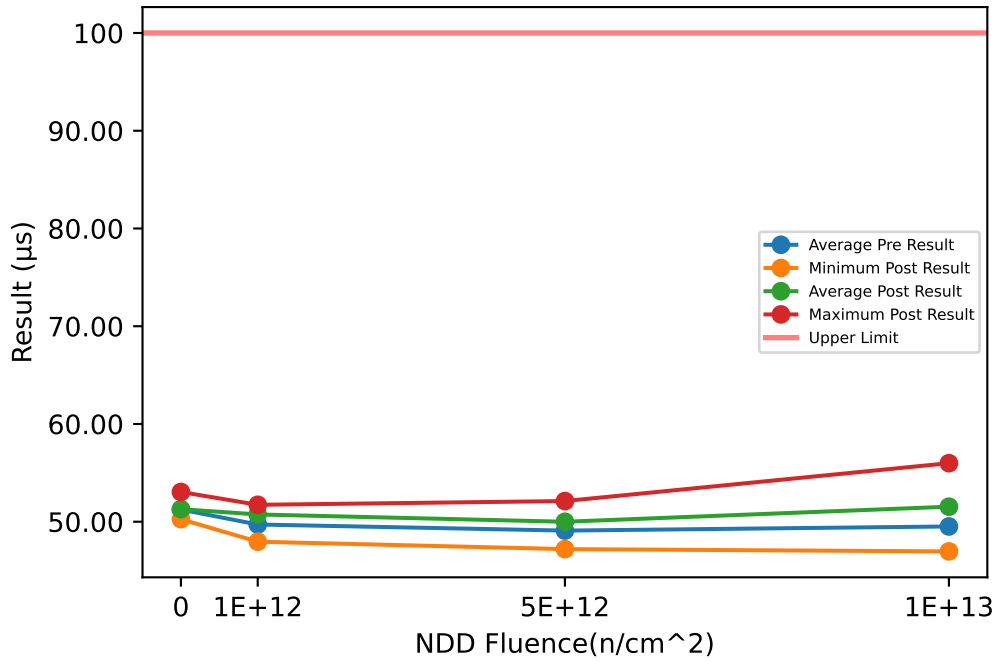


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	190.35	193.94	196.79	2.7825	189.41	192.57	197.74	3.6098	-4.1847	-1.3705	0.9421	2.1185
1e+12	190.31	193.36	197.32	3.06	191.54	194.23	195.75	1.9293	-1.5753	0.8654	2.3758	1.7021
5e+12	187.94	194	199.45	4.7522	190.6	196.18	200.32	4.0676	0.8712	2.186	3.7436	1.2775
1e+13	188.85	190.92	194.31	2.6128	189.61	194.35	198.69	3.8462	0.7554	3.431	4.4705	1.7901

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

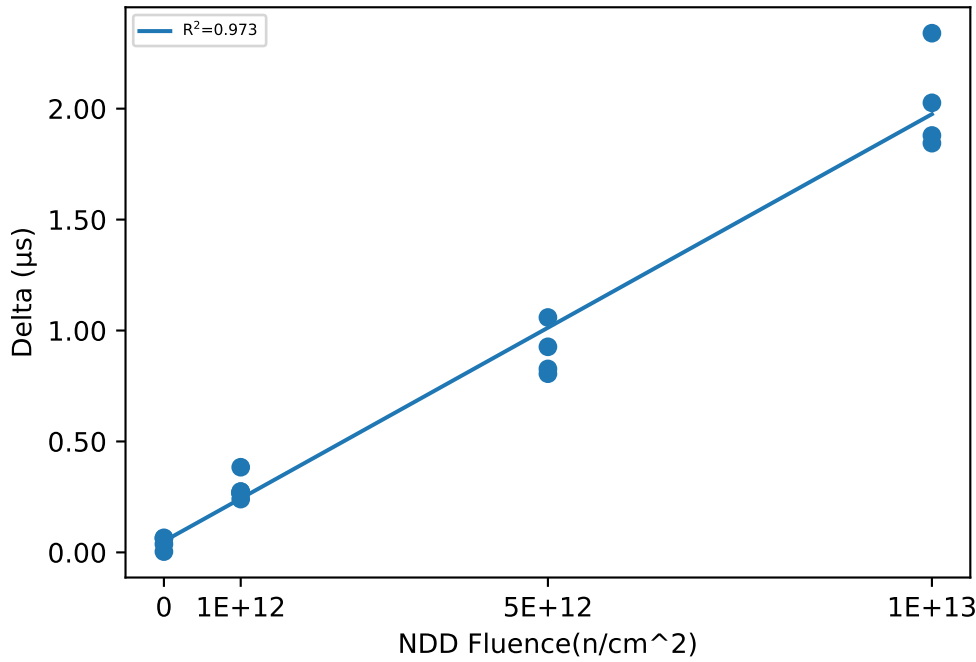
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	51.457	51.731	0.2739
171	1e+12	NDD	51.149	51.415	0.2657
269	1e+12	NDD	48.683	48.924	0.2402
337	1e+12	NDD	47.573	47.957	0.3839
357	5e+12	NDD	50.431	51.236	0.8054
361	5e+12	NDD	51.056	52.115	1.0588
373	5e+12	NDD	48.513	49.439	0.9266
412	5e+12	NDD	46.372	47.199	0.827
470	1e+13	NDD	50.132	52.158	2.0263
498	1e+13	NDD	53.649	55.989	2.3401
503	1e+13	NDD	49.158	51.037	1.8792
540	1e+13	NDD	45.12	46.965	1.8444
553	0	CORRELATION	52.978	53.043	0.0656
586	0	CORRELATION	50.533	50.536	0.0036
634	0	CORRELATION	51.232	51.296	0.0637
635	0	CORRELATION	50.221	50.259	0.0375

NDD vs Post - Pre Exposure Delta

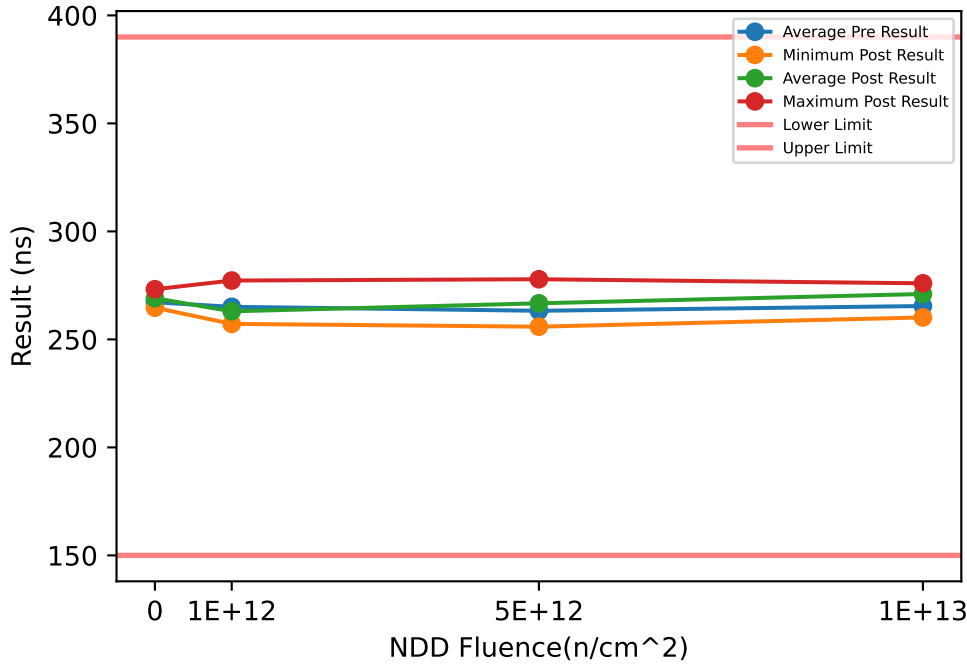


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	50.221	51.241	52.978	1.2325	50.259	51.284	53.043	1.2524	0.0036	0.0426	0.0656	0.02899
1e+12	47.573	49.716	51.457	1.8925	47.957	50.007	51.731	1.8558	0.2402	0.29093	0.3839	0.063623
5e+12	46.372	49.093	51.056	2.1124	47.199	49.997	52.115	2.1728	0.8054	0.90445	1.0588	0.11565
1e+13	45.12	49.515	53.649	3.5077	46.965	51.537	55.989	3.7132	1.8444	2.0225	2.3401	0.22593

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

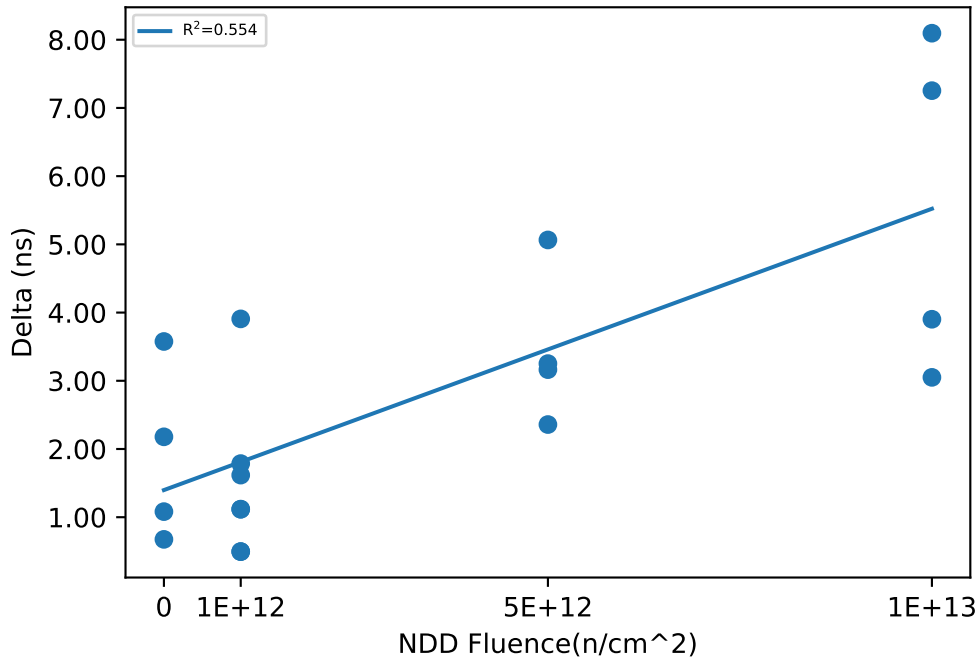
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	256.69	257.8	1.1174
171	1e+12	NDD	275.63	277.25	1.6172
269	1e+12	NDD	261.95	265.86	3.9074
337	1e+12	NDD	266.09	267.87	1.7862
357	5e+12	NDD	252.72	255.89	3.1634
361	5e+12	NDD	275.49	277.85	2.3586
373	5e+12	NDD	260.97	266.03	5.0647
412	5e+12	NDD	263.82	267.07	3.2519
470	1e+13	NDD	256.26	260.17	3.9021
498	1e+13	NDD	272.44	275.49	3.0502
503	1e+13	NDD	264.38	272.47	8.0958
540	1e+13	NDD	268.71	275.97	7.2535
553	0	CORRELATION	264	264.67	0.6751
586	0	CORRELATION	272.14	273.22	1.0819
634	0	CORRELATION	262.57	266.15	3.5762
635	0	CORRELATION	270.03	272.21	2.1785

NDD vs Post - Pre Exposure Delta

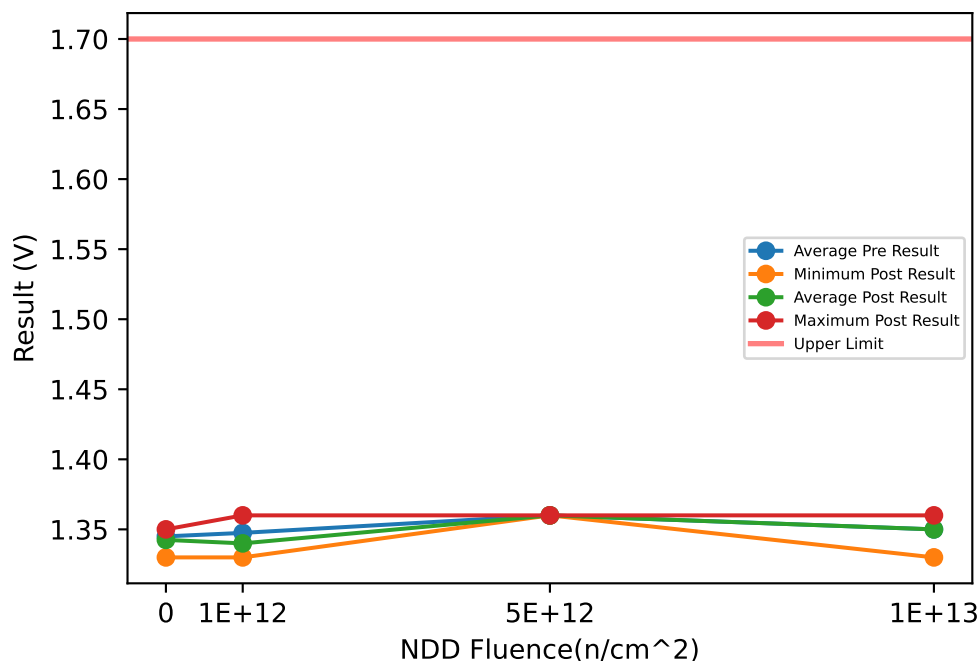


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	262.57	267.19	272.14	4.621	264.67	269.06	273.22	4.2795	0.6751	1.8779	3.5762	1.2981
1e+12	256.69	265.09	275.63	8.0125	257.8	267.2	277.25	7.9905	1.1174	2.1071	3.9074	1.2334
5e+12	252.72	263.25	275.49	9.4192	255.89	266.71	277.85	8.9776	2.3586	3.4596	5.0647	1.143
1e+13	256.26	265.45	272.44	6.9526	260.17	271.02	275.97	7.4015	3.0502	5.5754	8.0958	2.4729

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

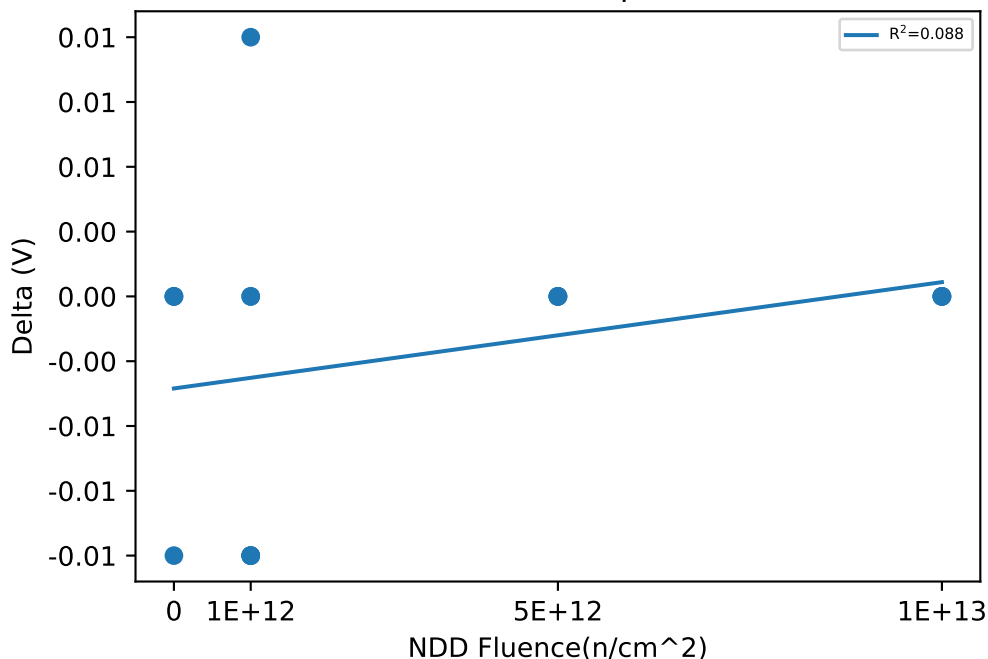
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.34	1.33	-0.01
171	1e+12	NDD	1.36	1.36	0
269	1e+12	NDD	1.34	1.35	0.01
337	1e+12	NDD	1.35	1.35	0
357	5e+12	NDD	1.36	1.36	0
361	5e+12	NDD	1.36	1.36	0
373	5e+12	NDD	1.36	1.36	0
412	5e+12	NDD	1.36	1.36	0
470	1e+13	NDD	1.35	1.35	0
498	1e+13	NDD	1.36	1.36	0
503	1e+13	NDD	1.36	1.36	0
540	1e+13	NDD	1.33	1.33	0
553	0	CORRELATION	1.35	1.35	0
586	0	CORRELATION	1.34	1.34	0
634	0	CORRELATION	1.36	1.35	-0.01
635	0	CORRELATION	1.33	1.33	0

NDD vs Post - Pre Exposure Delta

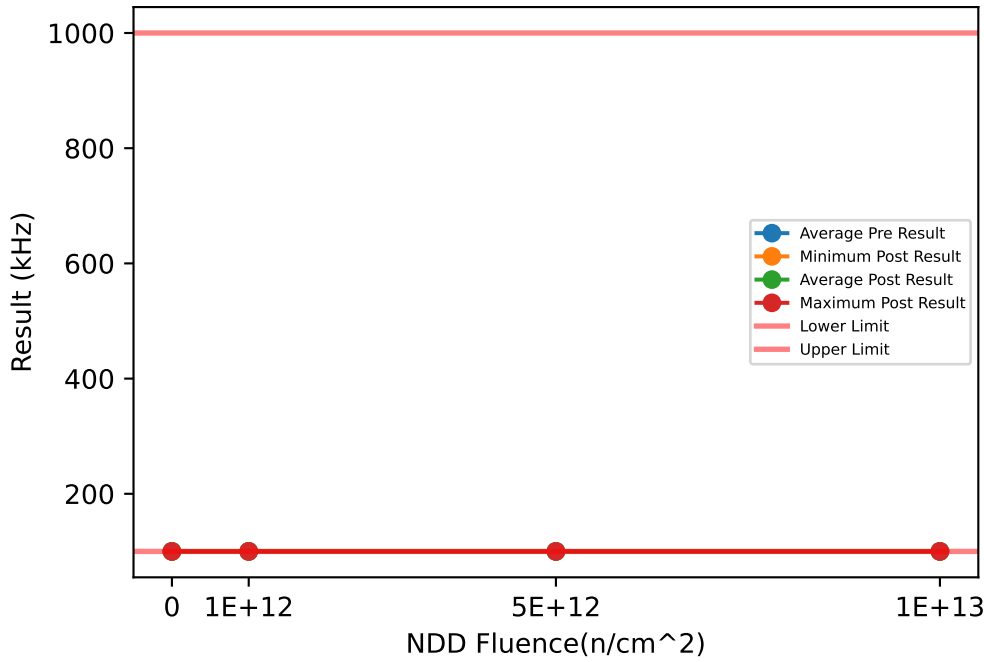


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.33	1.345	1.36	0.01291	1.33	1.3425	1.35	0.0095743	-0.01	-0.0025	0	0.005
1e+12	1.34	1.3475	1.36	0.0095743	1.33	1.3475	1.36	0.012583	-0.01	0	0.01	0.008165
5e+12	1.36	1.36	1.36	0	1.36	1.36	1.36	0	0	0	0	0
1e+13	1.33	1.35	1.36	0.014142	1.33	1.35	1.36	0.014142	0	0	0	0

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

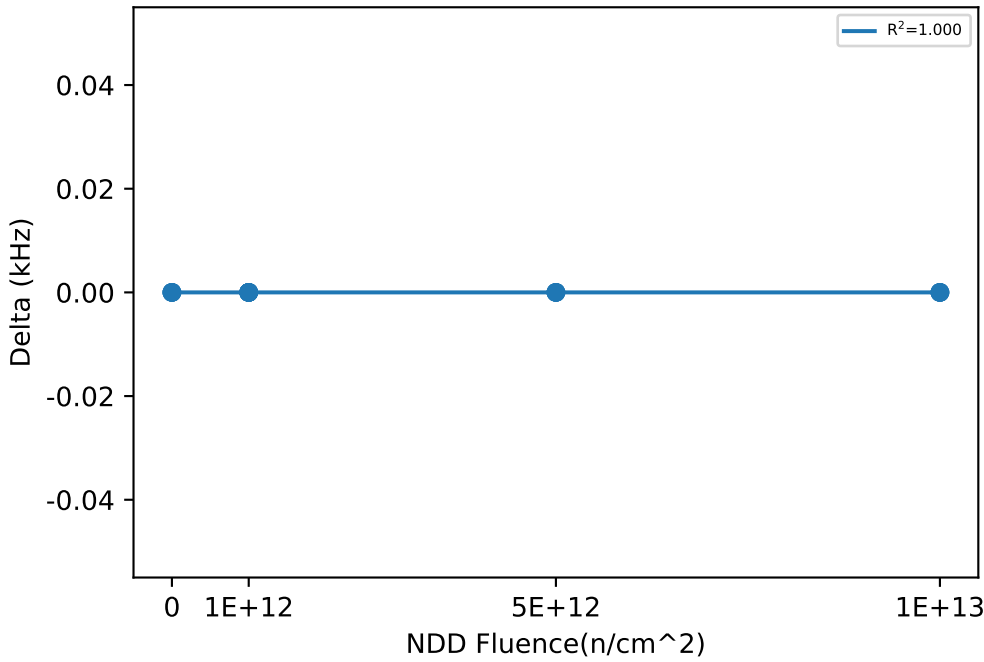
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	100	100	0
171	1e+12	NDD	100	100	0
269	1e+12	NDD	100	100	0
337	1e+12	NDD	100	100	0
357	5e+12	NDD	100	100	0
361	5e+12	NDD	100	100	0
373	5e+12	NDD	100	100	0
412	5e+12	NDD	100	100	0
470	1e+13	NDD	100	100	0
498	1e+13	NDD	100	100	0
503	1e+13	NDD	100	100	0
540	1e+13	NDD	100	100	0
553	0	CORRELATION	100	100	0
586	0	CORRELATION	100	100	0
634	0	CORRELATION	100	100	0
635	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

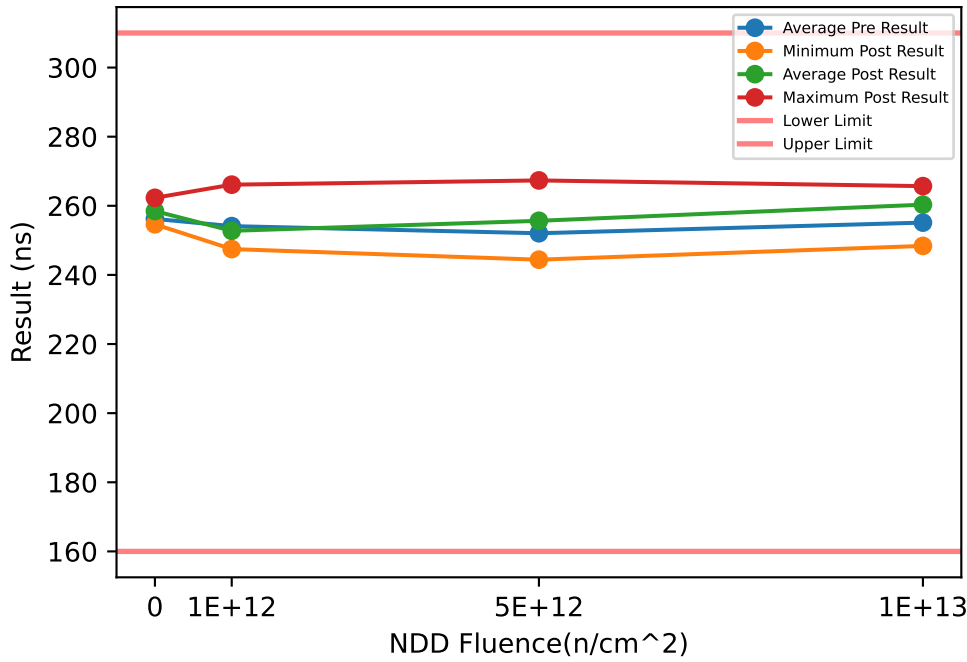


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

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

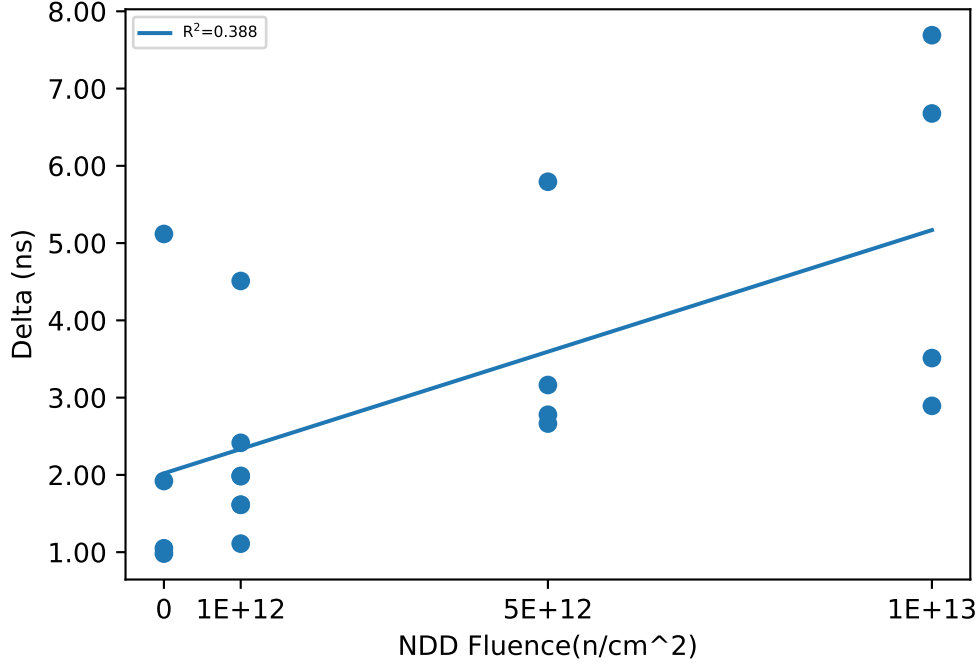
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	245.87	247.85	1.9852
171	1e+12	NDD	265	266.11	1.1102
269	1e+12	NDD	251	255.51	4.5097
337	1e+12	NDD	254.62	257.03	2.4153
357	5e+12	NDD	241.63	244.41	2.7784
361	5e+12	NDD	264.67	267.34	2.6645
373	5e+12	NDD	249.43	255.23	5.7941
412	5e+12	NDD	252.49	255.66	3.1635
470	1e+13	NDD	245.5	248.4	2.8938
498	1e+13	NDD	261.58	265.09	3.5119
503	1e+13	NDD	254.45	262.14	7.6907
540	1e+13	NDD	259.01	265.69	6.6778
553	0	CORRELATION	252.73	254.65	1.9209
586	0	CORRELATION	261.33	262.31	0.9815
634	0	CORRELATION	250.76	255.88	5.1182
635	0	CORRELATION	260.01	261.07	1.0503

NDD vs Post - Pre Exposure Delta

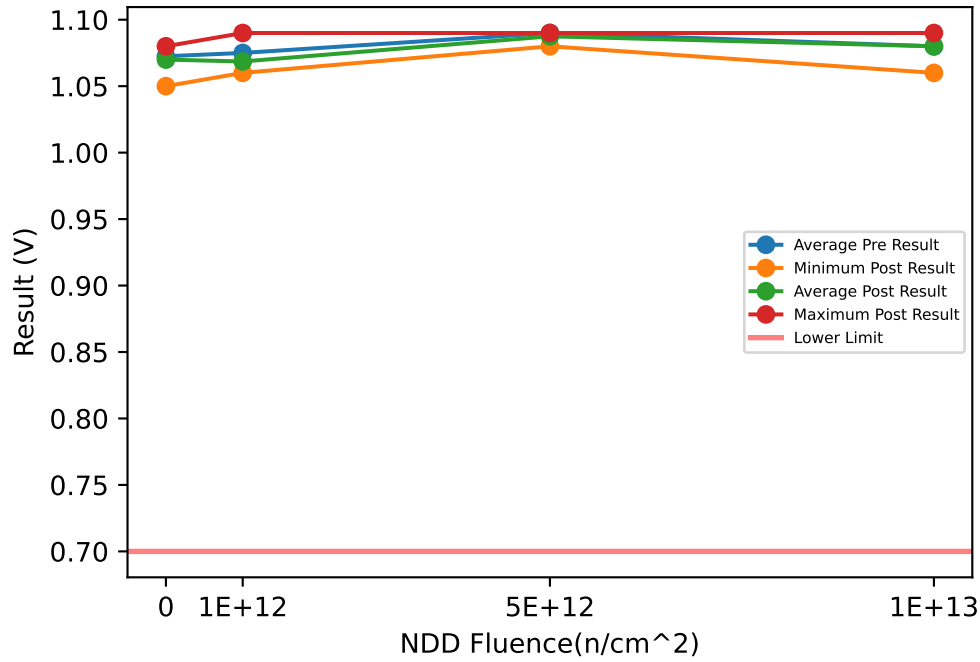


Test Statistics (ns)

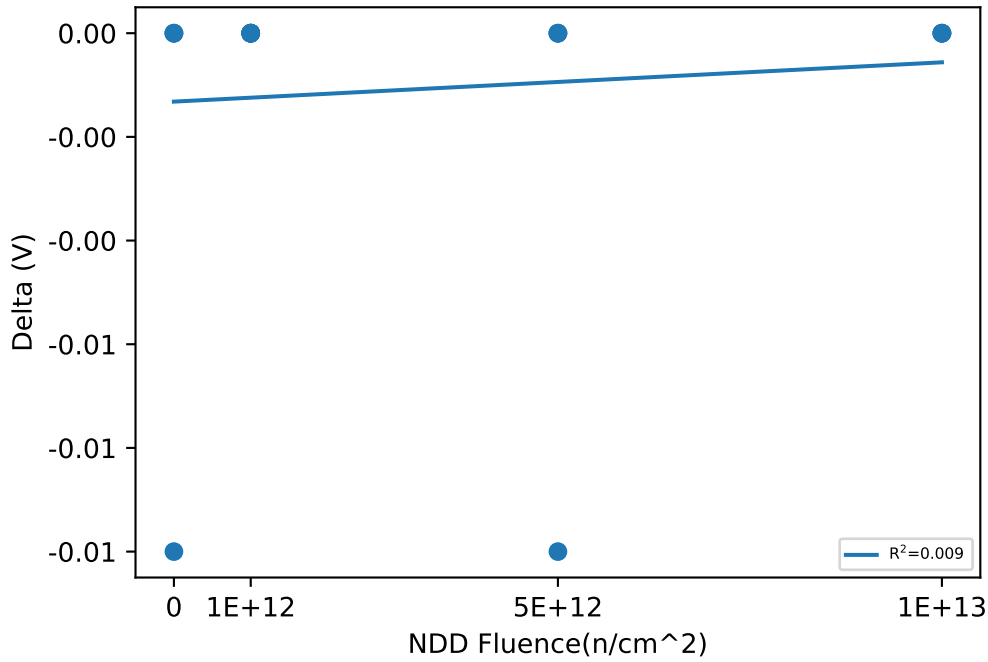
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	250.76	256.21	261.33	5.2425	254.65	258.48	262.31	3.7749	0.9815	2.2677	5.1182	1.9478
1e+12	245.87	254.12	265	8.0948	247.85	256.63	266.11	7.4928	1.1102	2.5051	4.5097	1.4425
5e+12	241.63	252.06	264.67	9.5756	244.41	255.66	267.34	9.3677	2.6645	3.6001	5.7941	1.4782
1e+13	245.5	255.13	261.58	7.0672	248.4	260.33	265.69	8.1054	2.8938	5.1935	7.6907	2.3492

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.7 (V))

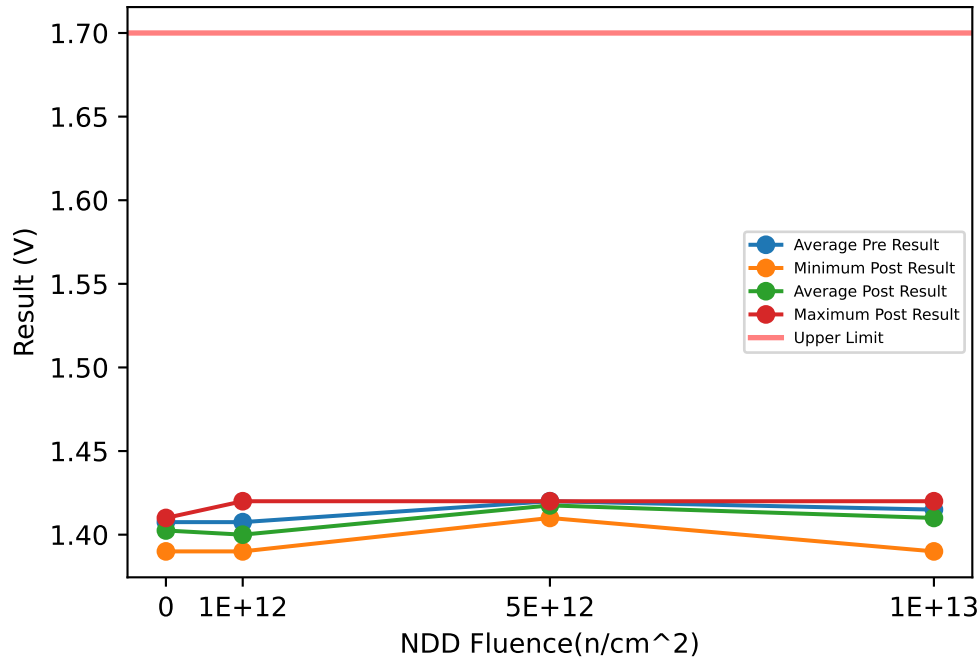
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.06	1.06	0
171	1e+12	NDD	1.09	1.09	0
269	1e+12	NDD	1.07	1.07	0
337	1e+12	NDD	1.08	1.08	0
357	5e+12	NDD	1.09	1.09	0
361	5e+12	NDD	1.09	1.09	0
373	5e+12	NDD	1.09	1.08	-0.01
412	5e+12	NDD	1.09	1.09	0
470	1e+13	NDD	1.08	1.08	0
498	1e+13	NDD	1.09	1.09	0
503	1e+13	NDD	1.09	1.09	0
540	1e+13	NDD	1.06	1.06	0
553	0	CORRELATION	1.08	1.08	0
586	0	CORRELATION	1.07	1.07	0
634	0	CORRELATION	1.08	1.08	0
635	0	CORRELATION	1.06	1.05	-0.01

Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.06	1.0725	1.08	0.0095743	1.05	1.07	1.08	0.014142	-0.01	-0.0025	0	0.005
1e+12	1.06	1.075	1.09	0.01291	1.06	1.075	1.09	0.01291	0	0	0	0
5e+12	1.09	1.09	1.09	0	1.08	1.0875	1.09	0.005	-0.01	-0.0025	0	0.005
1e+13	1.06	1.08	1.09	0.014142	1.06	1.08	1.09	0.014142	0	0	0	0

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

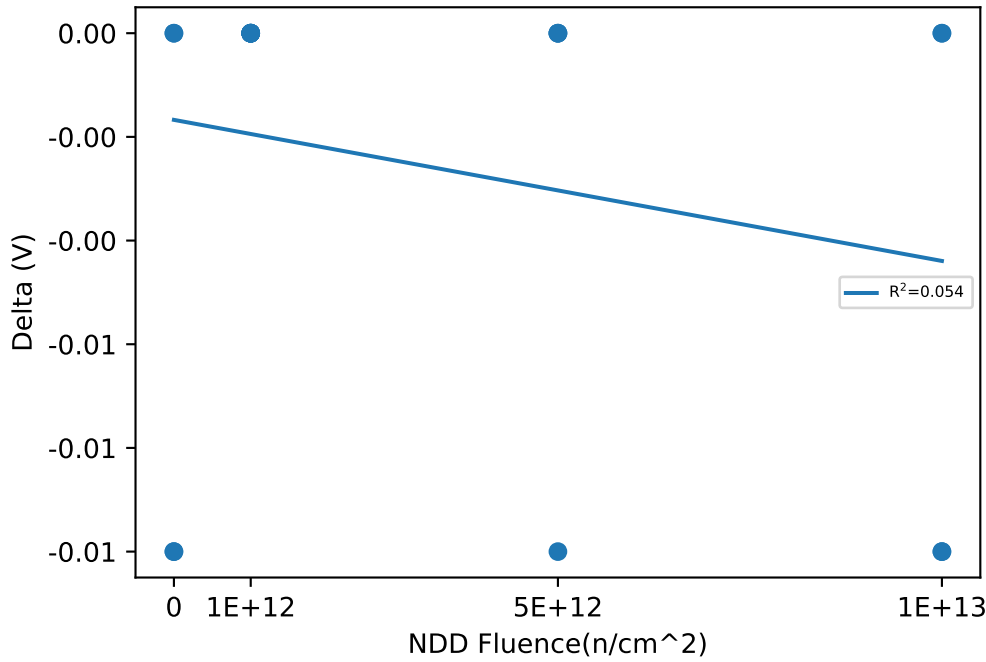
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.39	1.39	0
171	1e+12	NDD	1.42	1.42	0
269	1e+12	NDD	1.41	1.41	0
337	1e+12	NDD	1.41	1.41	0
357	5e+12	NDD	1.42	1.42	0
361	5e+12	NDD	1.42	1.41	-0.01
373	5e+12	NDD	1.42	1.42	0
412	5e+12	NDD	1.42	1.42	0
470	1e+13	NDD	1.42	1.41	-0.01
498	1e+13	NDD	1.43	1.42	-0.01
503	1e+13	NDD	1.42	1.42	0
540	1e+13	NDD	1.39	1.39	0
553	0	CORRELATION	1.42	1.41	-0.01
586	0	CORRELATION	1.4	1.4	0
634	0	CORRELATION	1.42	1.41	-0.01
635	0	CORRELATION	1.39	1.39	0

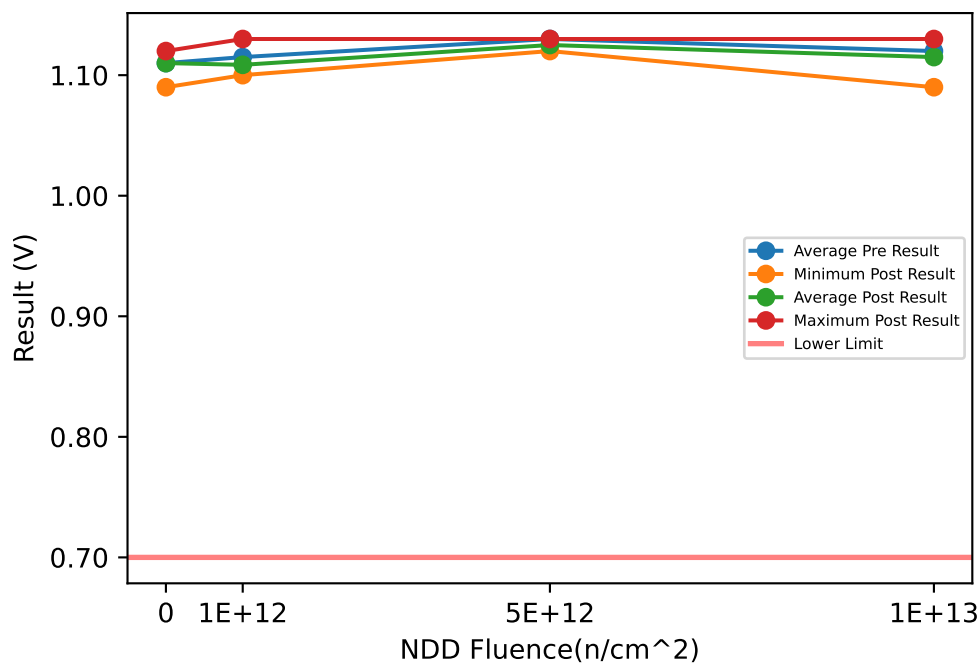
NDD vs Post - Pre Exposure Delta



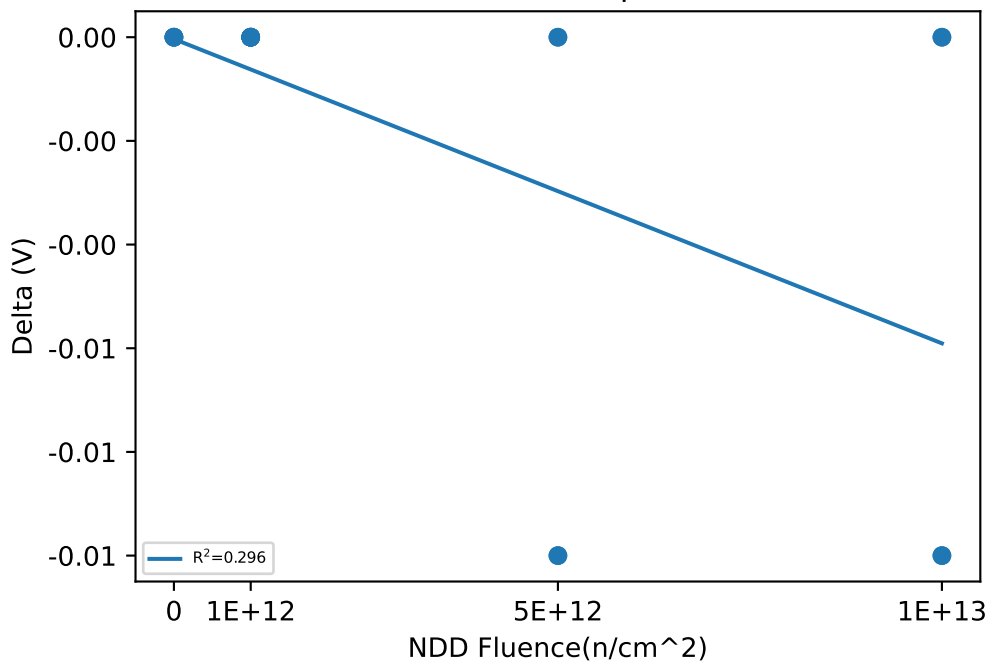
Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.39	1.4075	1.42	0.015	1.39	1.4025	1.41	0.0095743	-0.01	-0.005	0	0.0057735
1e+12	1.39	1.4075	1.42	0.012583	1.39	1.4075	1.42	0.012583	0	0	0	0
5e+12	1.42	1.42	1.42	0	1.41	1.4175	1.42	0.005	-0.01	-0.0025	0	0.005
1e+13	1.39	1.415	1.43	0.017321	1.39	1.41	1.42	0.014142	-0.01	-0.005	0	0.0057735

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.7 (V))

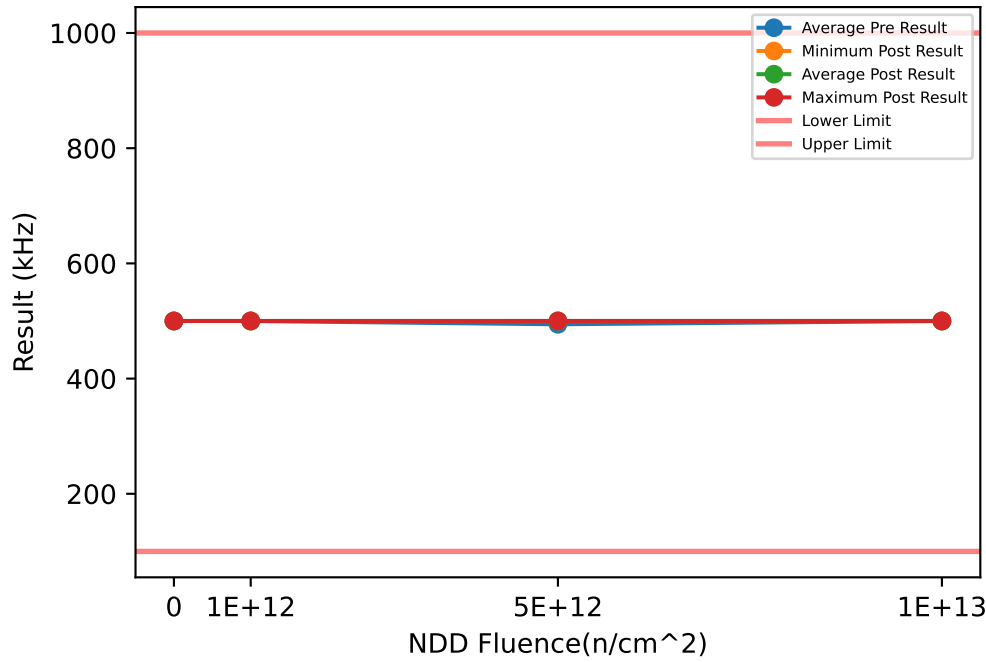
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.1	1.1	0
171	1e+12	NDD	1.13	1.13	0
269	1e+12	NDD	1.11	1.11	0
337	1e+12	NDD	1.12	1.12	0
357	5e+12	NDD	1.13	1.12	-0.01
361	5e+12	NDD	1.13	1.13	0
373	5e+12	NDD	1.13	1.12	-0.01
412	5e+12	NDD	1.13	1.13	0
470	1e+13	NDD	1.12	1.11	-0.01
498	1e+13	NDD	1.13	1.13	0
503	1e+13	NDD	1.13	1.13	0
540	1e+13	NDD	1.1	1.09	-0.01
553	0	CORRELATION	1.12	1.12	0
586	0	CORRELATION	1.11	1.11	0
634	0	CORRELATION	1.12	1.12	0
635	0	CORRELATION	1.09	1.09	0

Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.09	1.11	1.12	0.014142	1.09	1.11	1.12	0.014142	0	0	0	0
1e+12	1.1	1.115	1.13	0.01291	1.1	1.115	1.13	0.01291	0	0	0	0
5e+12	1.13	1.13	1.13	0	1.12	1.125	1.13	0.0057735	-0.01	-0.005	0	0.0057735
1e+13	1.1	1.12	1.13	0.014142	1.09	1.115	1.13	0.019149	-0.01	-0.005	0	0.0057735

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

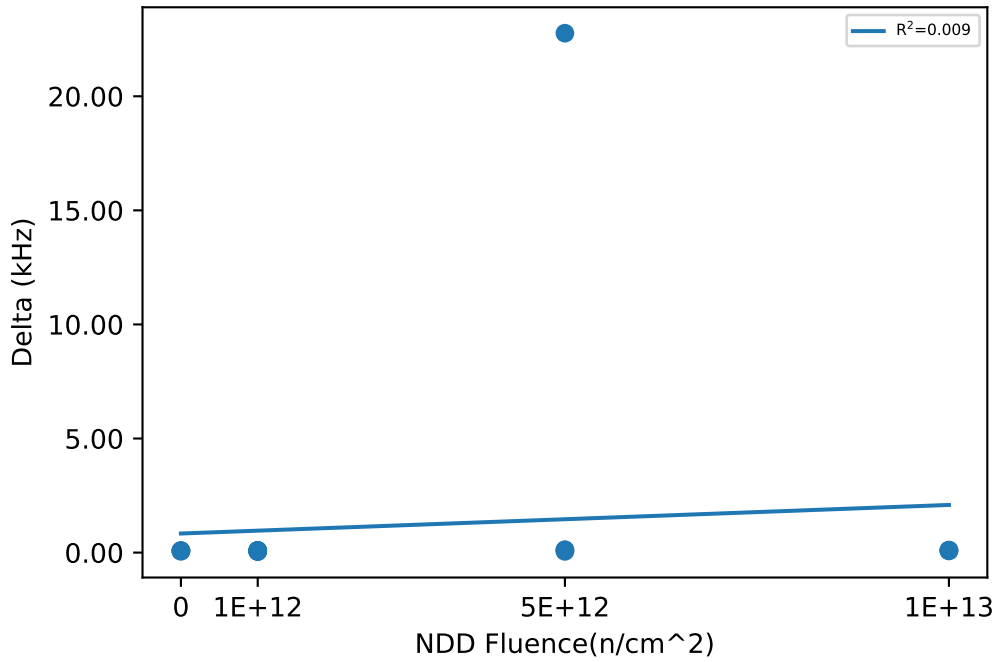
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	499.93	500.02	0.0889
171	1e+12	NDD	499.93	500.02	0.0895
269	1e+12	NDD	499.98	500.03	0.0481
337	1e+12	NDD	499.98	500.02	0.0438
357	5e+12	NDD	499.96	500.07	0.1144
361	5e+12	NDD	499.94	500.07	0.1236
373	5e+12	NDD	477.26	500.02	22.765
412	5e+12	NDD	499.97	500.02	0.054
470	1e+13	NDD	499.94	500.02	0.0839
498	1e+13	NDD	499.95	500.05	0.1016
503	1e+13	NDD	499.96	500.07	0.1112
540	1e+13	NDD	499.98	500.05	0.0726
553	0	CORRELATION	499.94	500.03	0.0872
586	0	CORRELATION	499.95	500.03	0.0823
634	0	CORRELATION	499.96	500.04	0.0786
635	0	CORRELATION	499.97	500.03	0.0582

NDD vs Post - Pre Exposure Delta

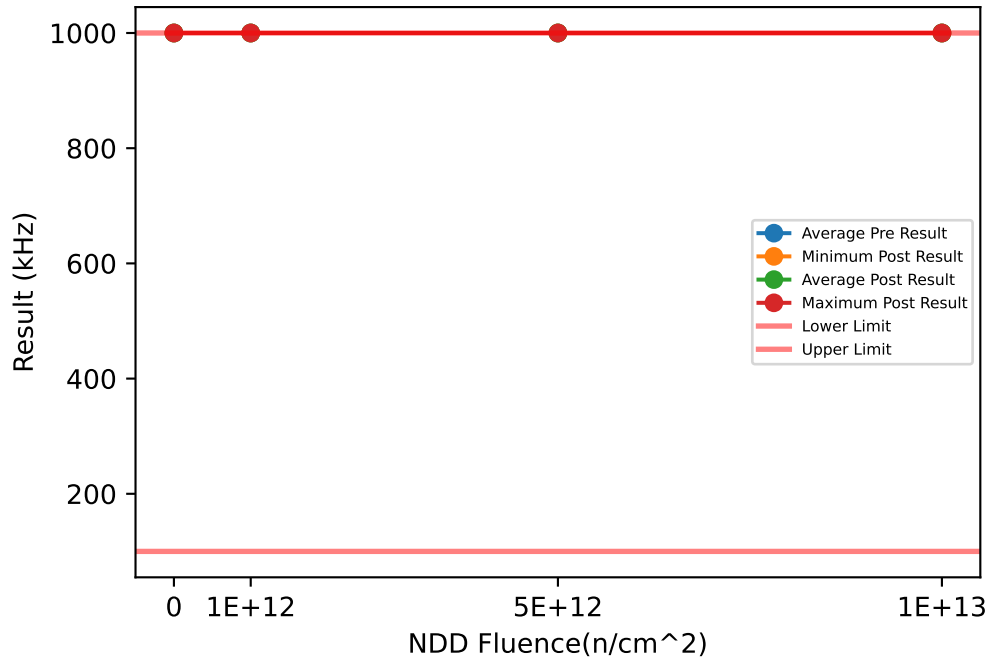


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.94	499.96	499.97	0.011954	500.03	500.03	500.04	0.0038358	0.0582	0.076575	0.0872	0.012746
1e+12	499.93	499.96	499.98	0.027562	500.02	500.02	500.03	0.0042685	0.0438	0.067575	0.0895	0.025033
5e+12	477.26	494.28	499.97	11.35	500.02	500.05	500.07	0.027292	0.054	5.7642	22.765	11.334
1e+13	499.94	499.96	499.98	0.018535	500.02	500.05	500.07	0.020283	0.0726	0.092325	0.1112	0.017343

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

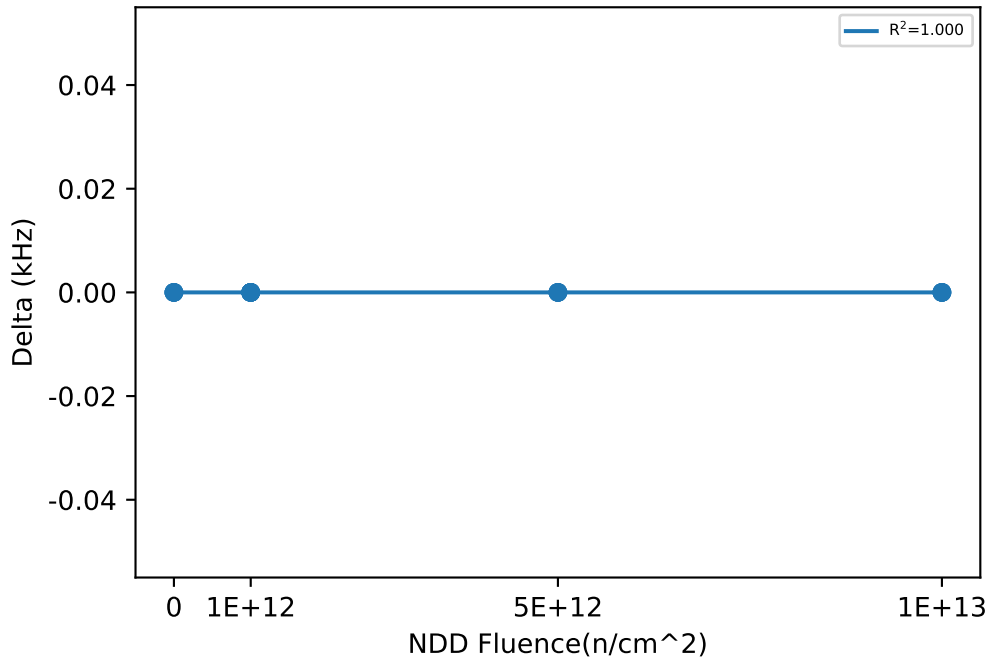
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1000	1000	0
171	1e+12	NDD	1000	1000	0
269	1e+12	NDD	1000	1000	0
337	1e+12	NDD	1000	1000	0
357	5e+12	NDD	1000	1000	0
361	5e+12	NDD	1000	1000	0
373	5e+12	NDD	1000	1000	0
412	5e+12	NDD	1000	1000	0
470	1e+13	NDD	1000	1000	0
498	1e+13	NDD	1000	1000	0
503	1e+13	NDD	1000	1000	0
540	1e+13	NDD	1000	1000	0
553	0	CORRELATION	1000	1000	0
586	0	CORRELATION	1000	1000	0
634	0	CORRELATION	1000	1000	0
635	0	CORRELATION	1000	1000	0

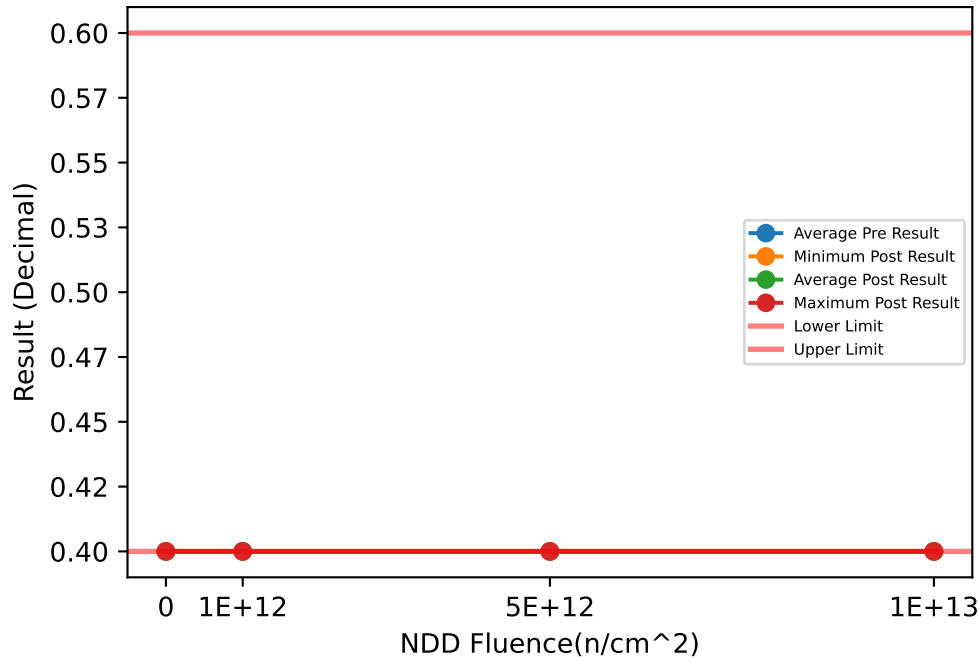
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

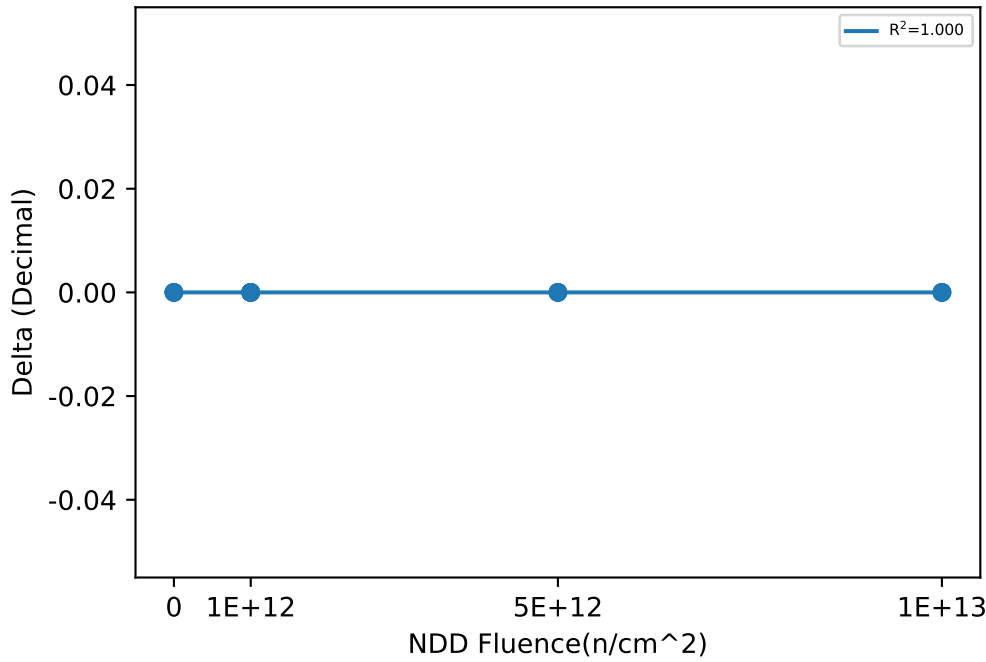
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.4	0.4	0
171	1e+12	NDD	0.4	0.4	0
269	1e+12	NDD	0.4	0.4	0
337	1e+12	NDD	0.4	0.4	0
357	5e+12	NDD	0.4	0.4	0
361	5e+12	NDD	0.4	0.4	0
373	5e+12	NDD	0.4	0.4	0
412	5e+12	NDD	0.4	0.4	0
470	1e+13	NDD	0.4	0.4	0
498	1e+13	NDD	0.4	0.4	0
503	1e+13	NDD	0.4	0.4	0
540	1e+13	NDD	0.4	0.4	0
553	0	CORRELATION	0.4	0.4	0
586	0	CORRELATION	0.4	0.4	0
634	0	CORRELATION	0.4	0.4	0
635	0	CORRELATION	0.4	0.4	0

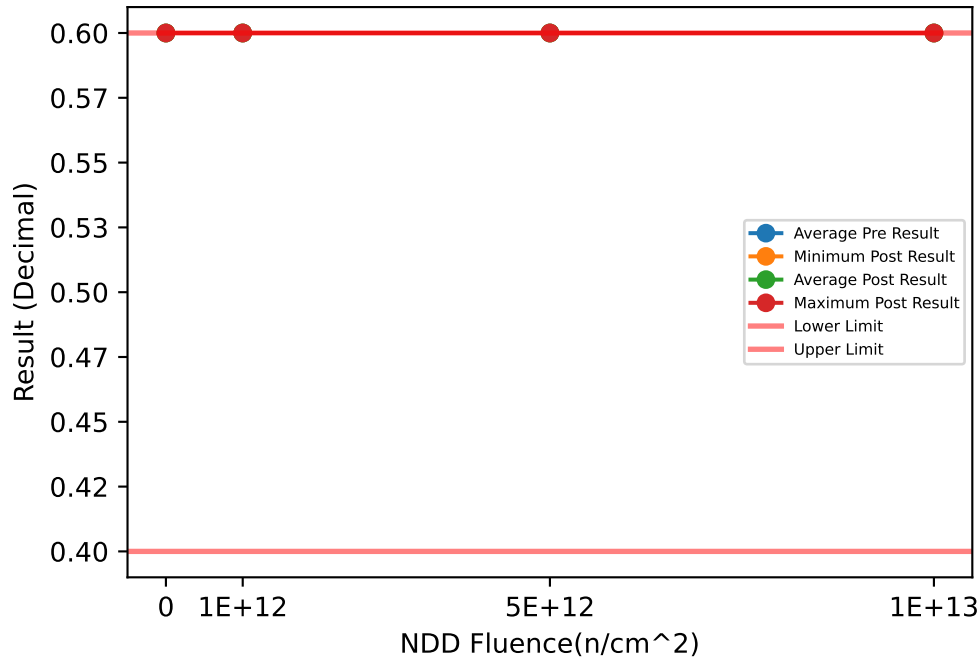
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

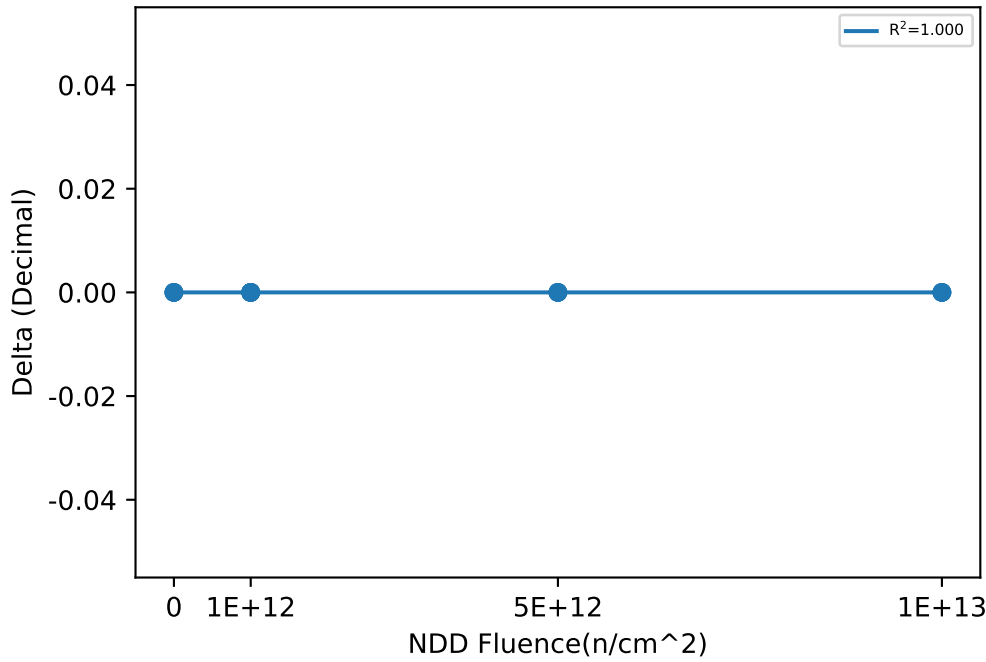
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.6	0
171	1e+12	NDD	0.6	0.6	0
269	1e+12	NDD	0.6	0.6	0
337	1e+12	NDD	0.6	0.6	0
357	5e+12	NDD	0.6	0.6	0
361	5e+12	NDD	0.6	0.6	0
373	5e+12	NDD	0.6	0.6	0
412	5e+12	NDD	0.6	0.6	0
470	1e+13	NDD	0.6	0.6	0
498	1e+13	NDD	0.6	0.6	0
503	1e+13	NDD	0.6	0.6	0
540	1e+13	NDD	0.6	0.6	0
553	0	CORRELATION	0.6	0.6	0
586	0	CORRELATION	0.6	0.6	0
634	0	CORRELATION	0.6	0.6	0
635	0	CORRELATION	0.6	0.6	0

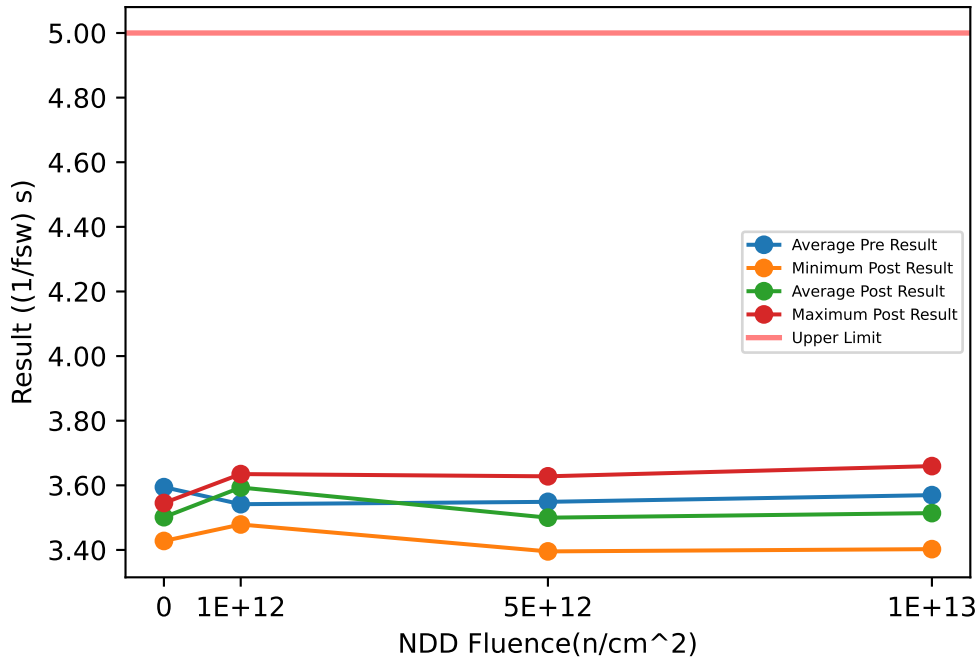
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

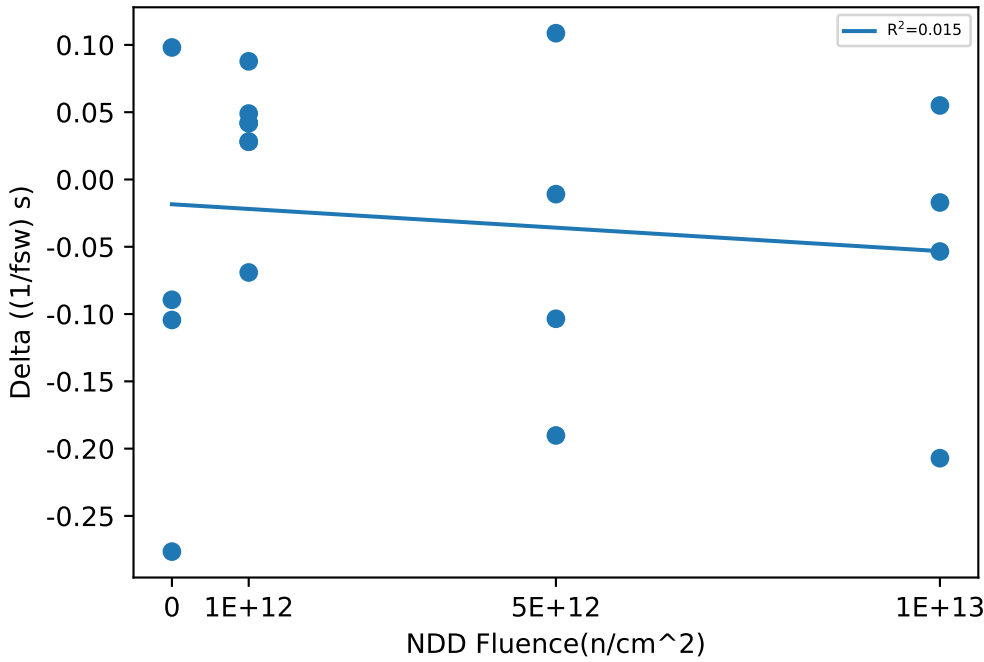
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	3.5929	3.6348	0.0419
171	1e+12	NDD	3.507	3.5948	0.0878
269	1e+12	NDD	3.5185	3.5675	0.049
337	1e+12	NDD	3.5479	3.4788	-0.0691
357	5e+12	NDD	3.6388	3.6279	-0.0109
361	5e+12	NDD	3.4339	3.5426	0.1087
373	5e+12	NDD	3.5857	3.3955	-0.1902
412	5e+12	NDD	3.5371	3.4336	-0.1035
470	1e+13	NDD	3.6671	3.46	-0.2071
498	1e+13	NDD	3.6045	3.6595	0.055
503	1e+13	NDD	3.5875	3.534	-0.0535
540	1e+13	NDD	3.4196	3.4025	-0.0171
553	0	CORRELATION	3.7043	3.4278	-0.2765
586	0	CORRELATION	3.4472	3.5453	0.0981
634	0	CORRELATION	3.6174	3.513	-0.1044
635	0	CORRELATION	3.6086	3.5192	-0.0894

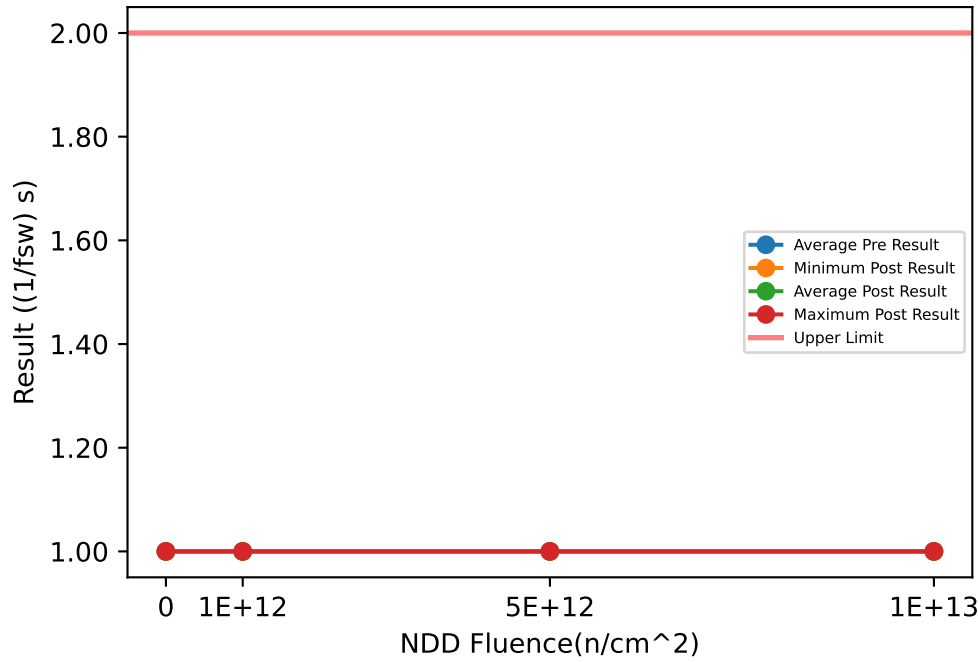
NDD vs Post - Pre Exposure Delta



Test Statistics ((1/fsw) s)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4472	3.5944	3.7043	0.1072	3.4278	3.5013	3.5453	0.050976	-0.2765	-0.09305	0.0981	0.15312
1e+12	3.507	3.5416	3.5929	0.038306	3.4788	3.569	3.6348	0.066165	-0.0691	0.0274	0.0878	0.067422
5e+12	3.4339	3.5489	3.6388	0.087179	3.3955	3.4999	3.6279	0.10568	-0.1902	-0.048975	0.1087	0.1281
1e+13	3.4196	3.5697	3.6671	0.10574	3.4025	3.514	3.6595	0.11093	-0.2071	-0.055675	0.055	0.11056

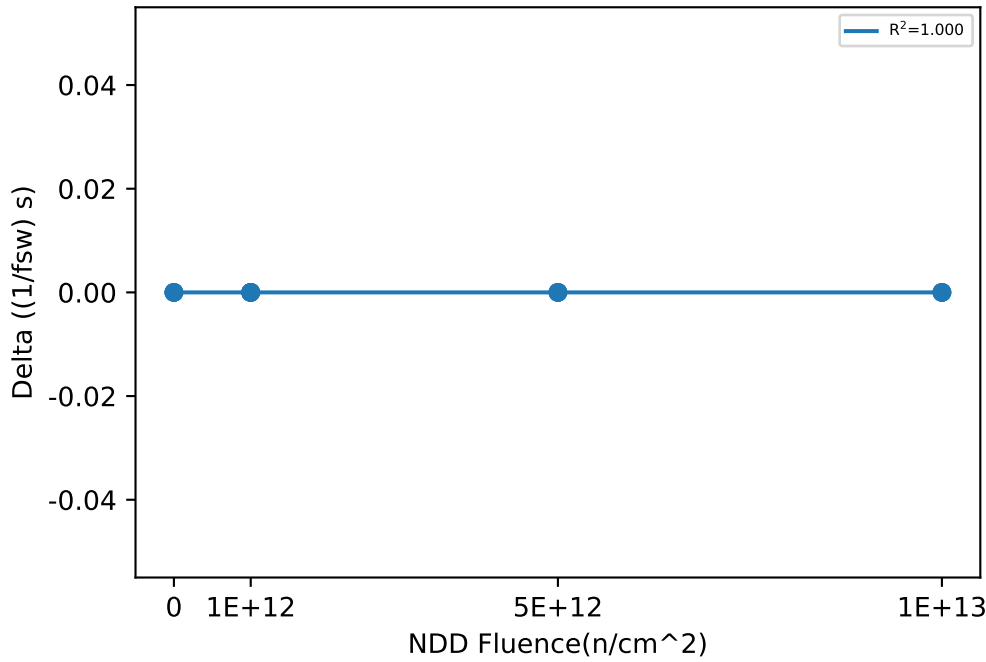
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1	1	0
171	1e+12	NDD	1	1	0
269	1e+12	NDD	1	1	0
337	1e+12	NDD	1	1	0
357	5e+12	NDD	1	1	0
361	5e+12	NDD	1	1	0
373	5e+12	NDD	1	1	0
412	5e+12	NDD	1	1	0
470	1e+13	NDD	1	1	0
498	1e+13	NDD	1	1	0
503	1e+13	NDD	1	1	0
540	1e+13	NDD	1	1	0
553	0	CORRELATION	1	1	0
586	0	CORRELATION	1	1	0
634	0	CORRELATION	1	1	0
635	0	CORRELATION	1	1	0

NDD vs Post - Pre Exposure Delta

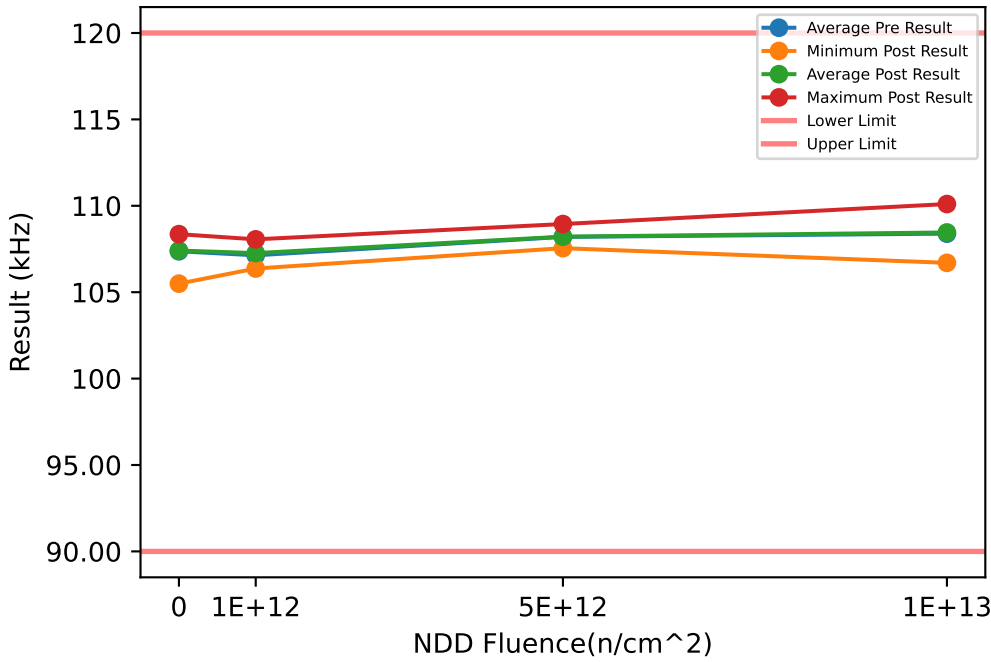


Test Statistics ((1/fsw) s)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1	1	1	0	1	1	1	0	0	0	0	0
1e+12	1	1	1	0	1	1	1	0	0	0	0	0
5e+12	1	1	1	0	1	1	1	0	0	0	0	0
1e+13	1	1	1	0	1	1	1	0	0	0	0	0

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

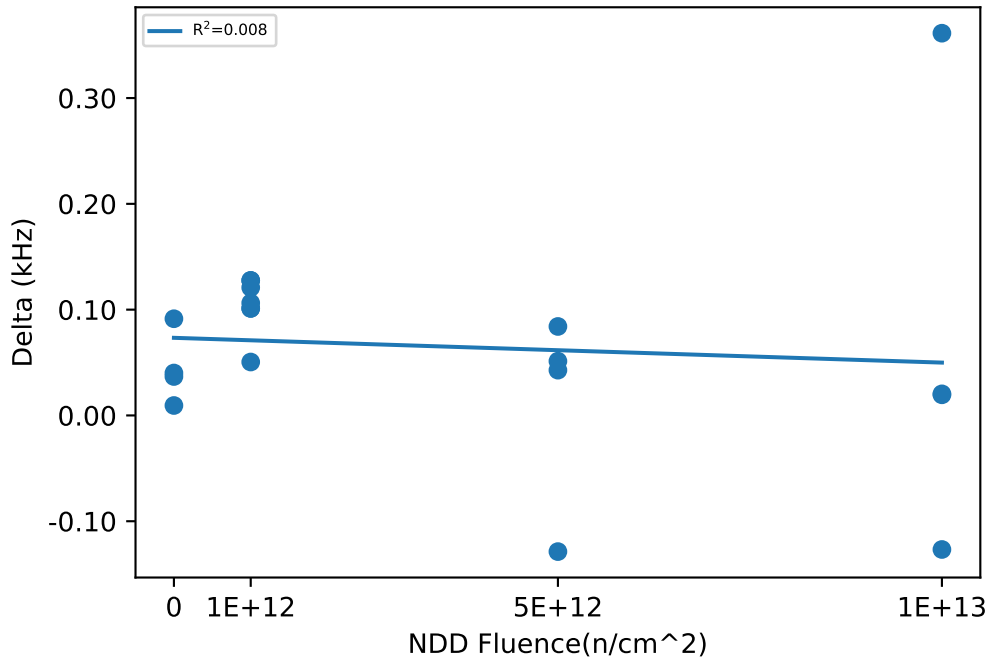
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	107.19	107.31	0.1276
171	1e+12	NDD	106.25	106.37	0.1209
269	1e+12	NDD	107.95	108.06	0.1063
337	1e+12	NDD	107.15	107.21	0.0505
357	5e+12	NDD	107.68	107.55	-0.1287
361	5e+12	NDD	108.53	108.57	0.0428
373	5e+12	NDD	108.89	108.94	0.0513
412	5e+12	NDD	107.7	107.79	0.0841
470	1e+13	NDD	108.12	108.14	0.0195
498	1e+13	NDD	106.68	106.7	0.0204
503	1e+13	NDD	108.53	108.89	0.3613
540	1e+13	NDD	110.23	110.1	-0.1267
553	0	CORRELATION	105.46	105.49	0.0368
586	0	CORRELATION	108.27	108.36	0.0914
634	0	CORRELATION	107.95	107.96	0.0094
635	0	CORRELATION	107.79	107.83	0.0401

NDD vs Post - Pre Exposure Delta

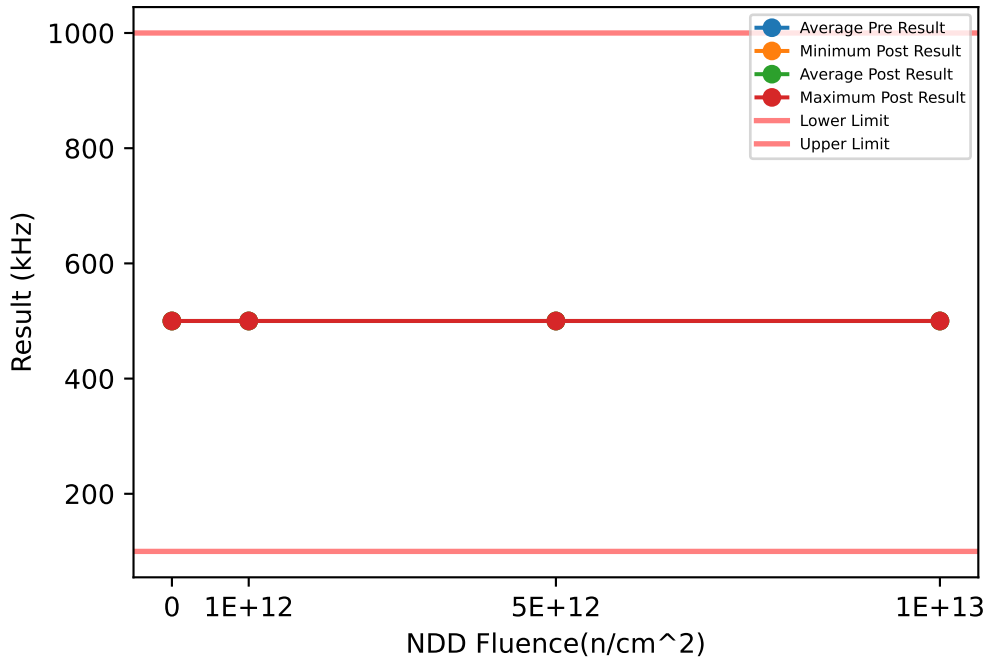


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	105.46	107.37	108.27	1.2886	105.49	107.41	108.36	1.2979	0.0094	0.044425	0.0914	0.034206
1e+12	106.25	107.14	107.95	0.69684	106.37	107.24	108.06	0.69149	0.0505	0.10133	0.1276	0.035031
5e+12	107.68	108.2	108.89	0.60806	107.55	108.21	108.94	0.655	-0.1287	0.012375	0.0841	0.095721
1e+13	106.68	108.39	110.23	1.4606	106.7	108.46	110.1	1.4238	-0.1267	0.068625	0.3613	0.207

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

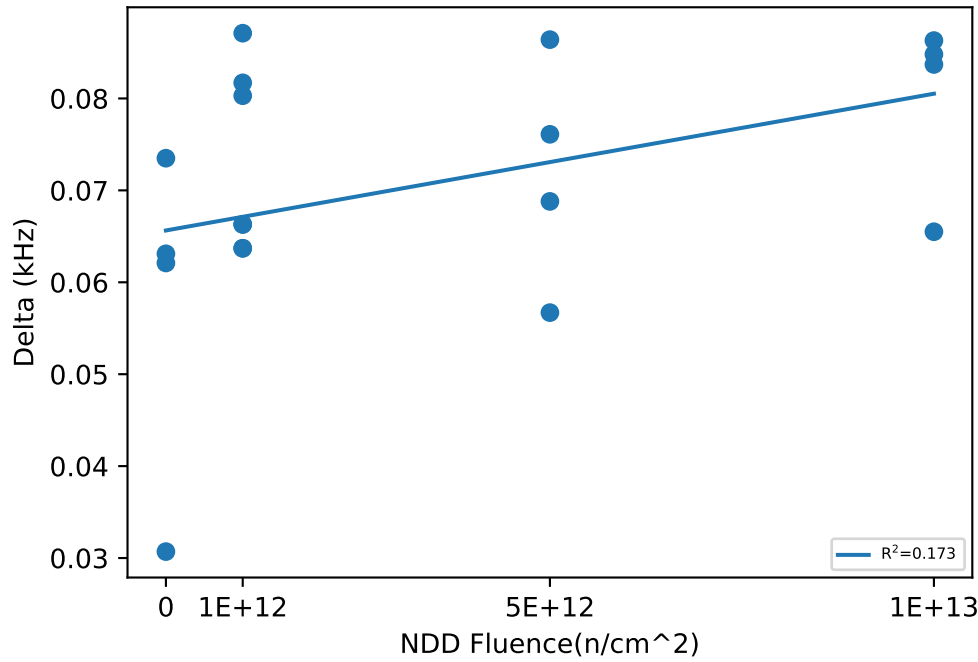
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	499.96	500.03	0.0663
171	1e+12	NDD	499.97	500.05	0.0817
269	1e+12	NDD	499.97	500.05	0.0803
337	1e+12	NDD	499.96	500.05	0.0871
357	5e+12	NDD	499.95	500.03	0.0864
361	5e+12	NDD	499.96	500.02	0.0567
373	5e+12	NDD	499.96	500.04	0.0761
412	5e+12	NDD	499.96	500.03	0.0688
470	1e+13	NDD	499.95	500.01	0.0655
498	1e+13	NDD	499.96	500.05	0.0863
503	1e+13	NDD	499.97	500.05	0.0848
540	1e+13	NDD	499.96	500.04	0.0837
553	0	CORRELATION	499.96	500.02	0.0621
586	0	CORRELATION	499.95	500.02	0.0735
634	0	CORRELATION	499.98	500.01	0.0307
635	0	CORRELATION	499.97	500.03	0.0631

NDD vs Post - Pre Exposure Delta

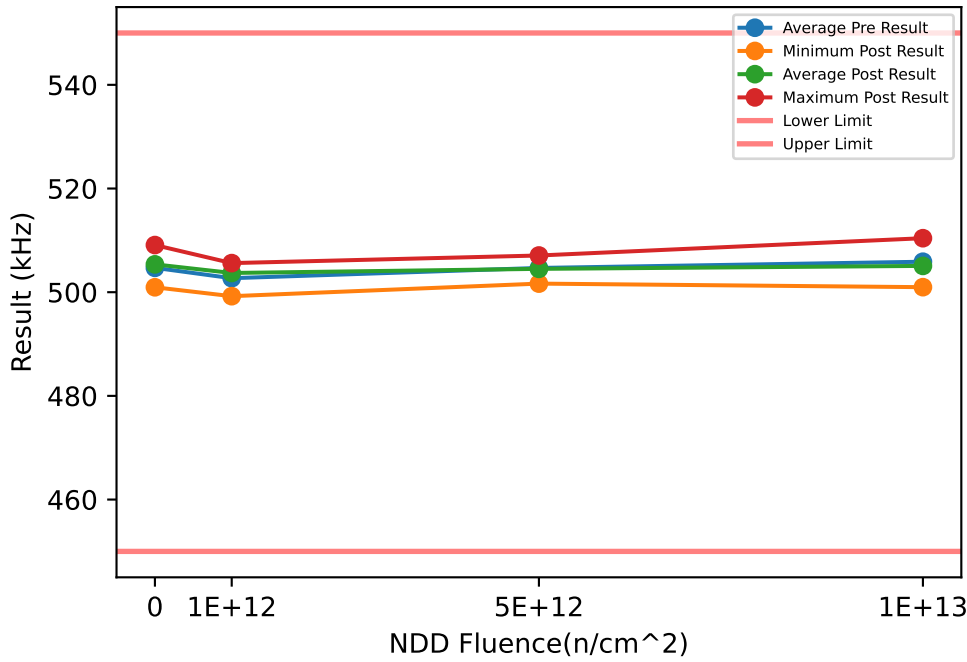


Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.95	499.97	499.98	0.012524	500.01	500.02	500.03	0.0094171	0.0307	0.05735	0.0735	0.018499
1e+12	499.96	499.96	499.97	0.0043871	500.03	500.04	500.05	0.01144	0.0663	0.07885	0.0871	0.0088655
5e+12	499.95	499.96	499.96	0.0081029	500.02	500.03	500.04	0.010085	0.0567	0.072	0.0864	0.012497
1e+13	499.95	499.96	499.97	0.0089942	500.01	500.04	500.05	0.017881	0.0655	0.080075	0.0863	0.0097749

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

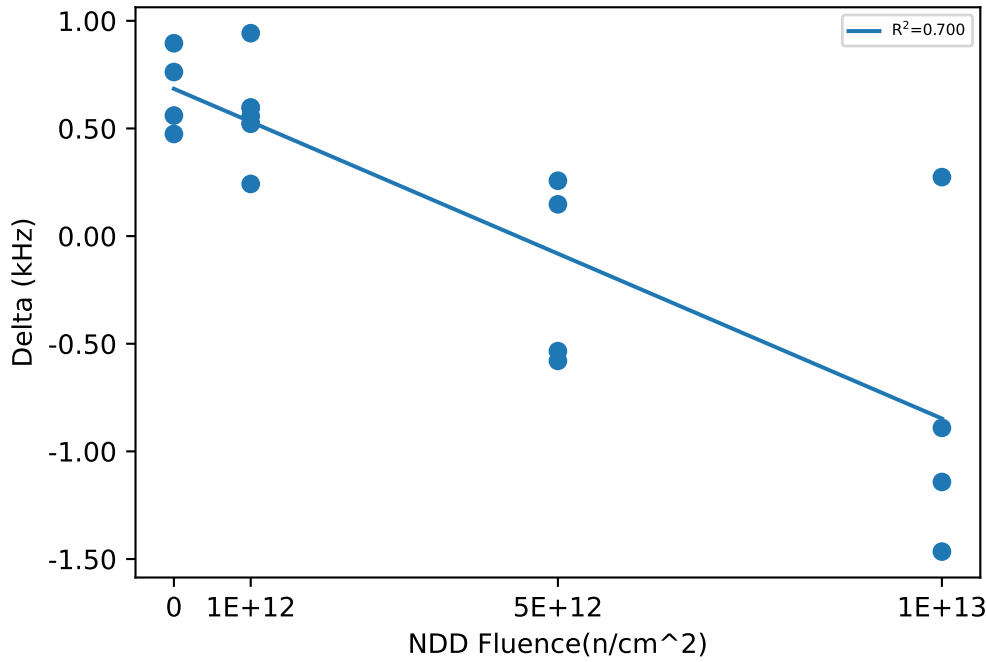
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	503.73	504.32	0.5967
171	1e+12	NDD	498.29	499.23	0.9425
269	1e+12	NDD	503.42	503.98	0.5573
337	1e+12	NDD	505.37	505.61	0.2423
357	5e+12	NDD	502.19	501.66	-0.5344
361	5e+12	NDD	506.3	506.56	0.2572
373	5e+12	NDD	506.93	507.08	0.1477
412	5e+12	NDD	503.29	502.71	-0.5796
470	1e+13	NDD	506.28	505.38	-0.8908
498	1e+13	NDD	502.11	500.97	-1.1421
503	1e+13	NDD	503.24	503.52	0.274
540	1e+13	NDD	511.88	510.42	-1.4655
553	0	CORRELATION	500.19	500.95	0.7622
586	0	CORRELATION	502.75	503.65	0.8958
634	0	CORRELATION	507.23	507.79	0.56
635	0	CORRELATION	508.62	509.09	0.4744

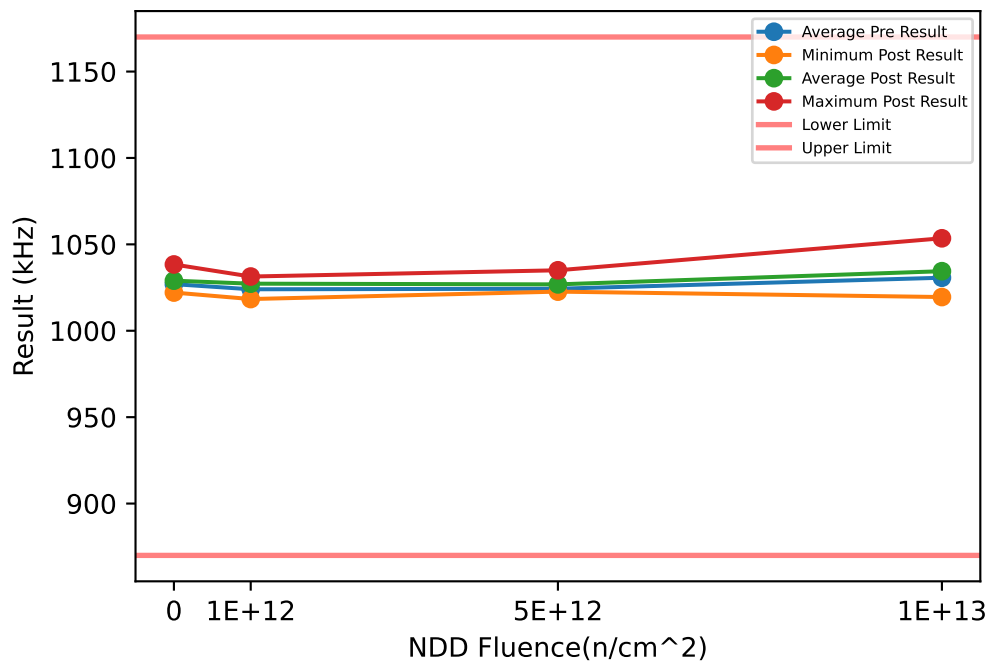
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	500.19	504.7	508.62	3.9141	500.95	505.37	509.09	3.7535	0.4744	0.6731	0.8958	0.19132
1e+12	498.29	502.7	505.37	3.0643	499.23	503.29	505.61	2.7938	0.2423	0.5847	0.9425	0.28645
5e+12	502.19	504.68	506.93	2.2956	501.66	504.5	507.08	2.7176	-0.5796	-0.17727	0.2572	0.44113
1e+13	502.11	505.88	511.88	4.371	500.97	505.07	510.42	3.9956	-1.4655	-0.8061	0.274	0.75752

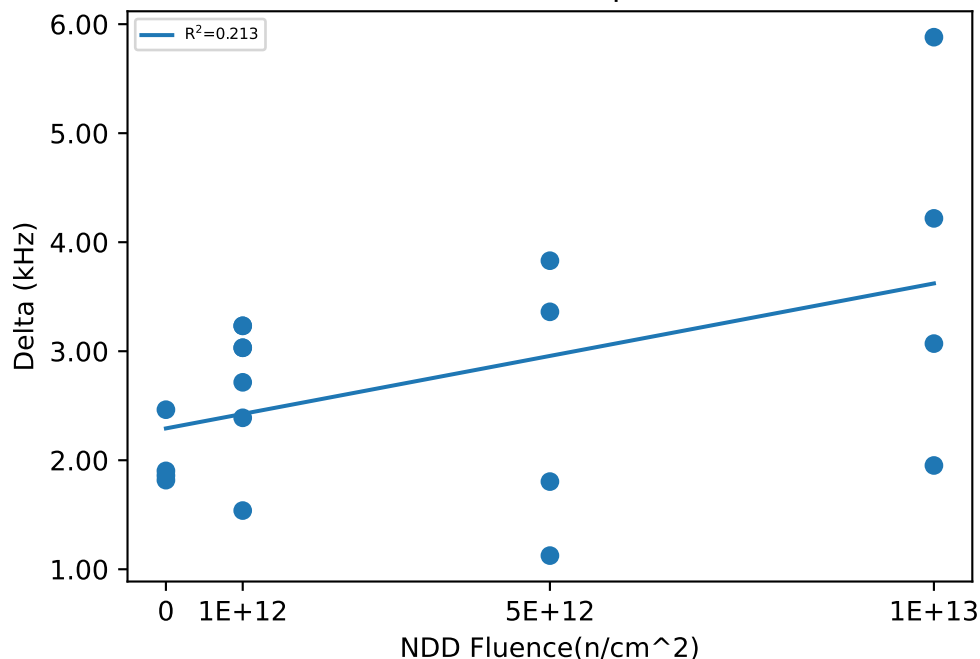
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1025.2	1028.4	3.233
171	1e+12	NDD	1015.6	1018.4	2.7148
269	1e+12	NDD	1029.8	1031.4	1.5384
337	1e+12	NDD	1025.3	1027.7	2.3892
357	5e+12	NDD	1019.3	1022.6	3.3614
361	5e+12	NDD	1031.2	1035	3.8304
373	5e+12	NDD	1023	1024.1	1.1253
412	5e+12	NDD	1023.8	1025.7	1.8042
470	1e+13	NDD	1028.7	1030.7	1.952
498	1e+13	NDD	1028.3	1034.2	5.8805
503	1e+13	NDD	1015.3	1019.5	4.2185
540	1e+13	NDD	1050.4	1053.5	3.0699
553	0	CORRELATION	1019.6	1022.1	2.4637
586	0	CORRELATION	1024.1	1026	1.9024
634	0	CORRELATION	1027.6	1029.4	1.8599
635	0	CORRELATION	1036.5	1038.4	1.8173

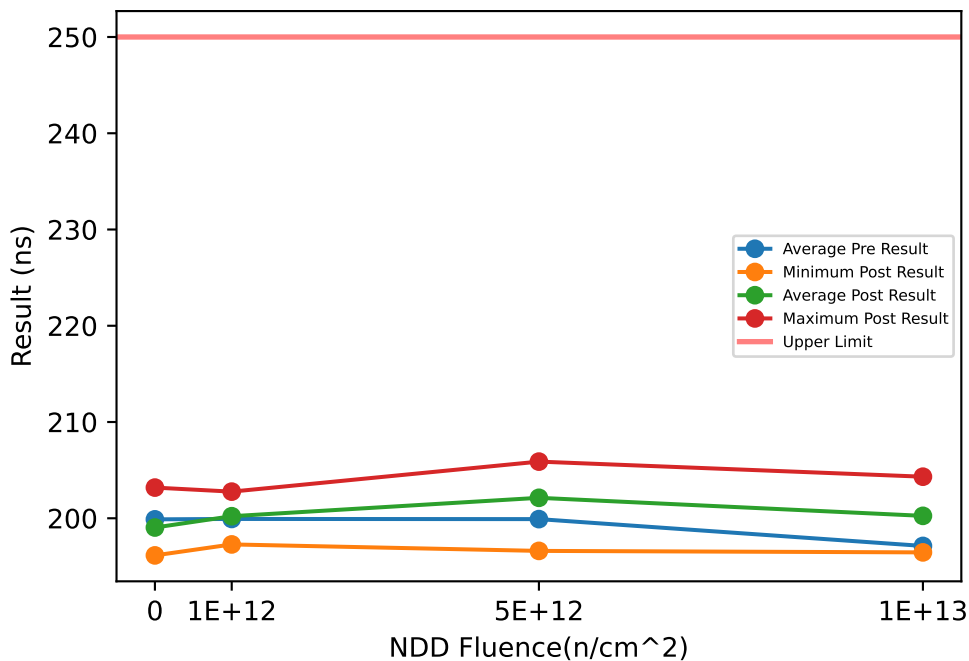
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1019.6	1027	1036.5	7.1625	1022.1	1029	1038.4	6.9347	1.8173	2.0108	2.4637	0.30391
1e+12	1015.6	1024	1029.8	5.9804	1018.4	1026.5	1031.4	5.6401	1.5384	2.4689	3.233	0.71098
5e+12	1019.3	1024.3	1031.2	4.9775	1022.6	1026.8	1035	5.5727	1.1253	2.5303	3.8304	1.2757
1e+13	1015.3	1030.7	1050.4	14.568	1019.5	1034.5	1053.5	14.15	1.952	3.7802	5.8805	1.6783

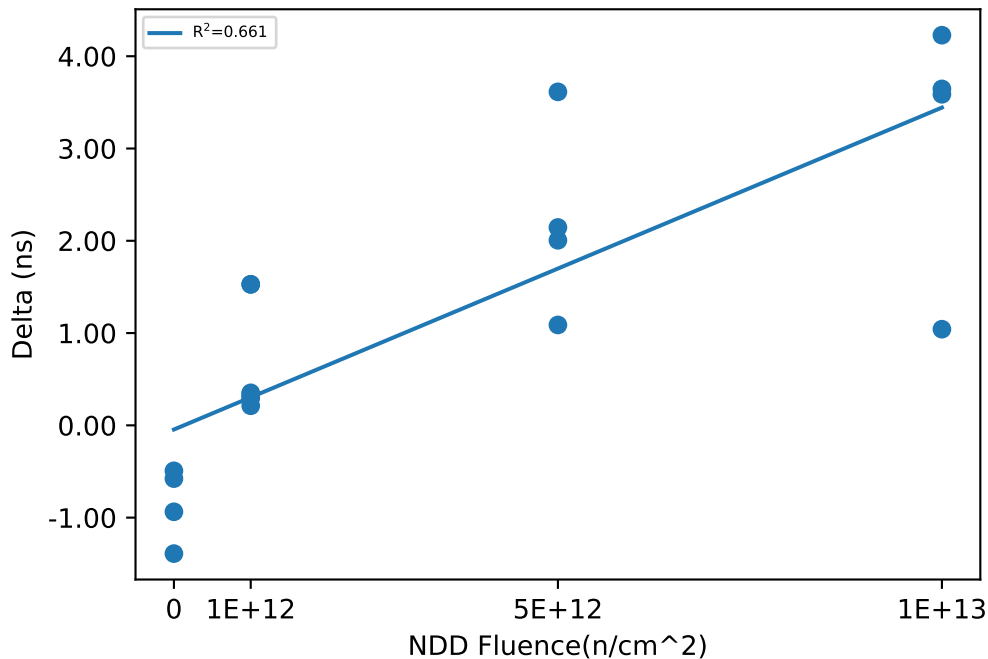
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	199.07	200.6	1.5282
171	1e+12	NDD	196.94	197.28	0.3381
269	1e+12	NDD	201.28	201.5	0.2122
337	1e+12	NDD	202.42	202.77	0.3524
357	5e+12	NDD	199.89	203.5	3.6139
361	5e+12	NDD	194.47	196.61	2.1444
373	5e+12	NDD	200.5	202.5	2.0053
412	5e+12	NDD	204.8	205.89	1.0879
470	1e+13	NDD	196.92	201.14	4.2279
498	1e+13	NDD	195.5	199.09	3.5875
503	1e+13	NDD	200.67	204.32	3.6459
540	1e+13	NDD	195.41	196.46	1.0419
553	0	CORRELATION	203.76	203.19	-0.5773
586	0	CORRELATION	196.64	196.14	-0.4928
634	0	CORRELATION	198.84	197.9	-0.9368
635	0	CORRELATION	200.31	198.92	-1.3898

NDD vs Post - Pre Exposure Delta

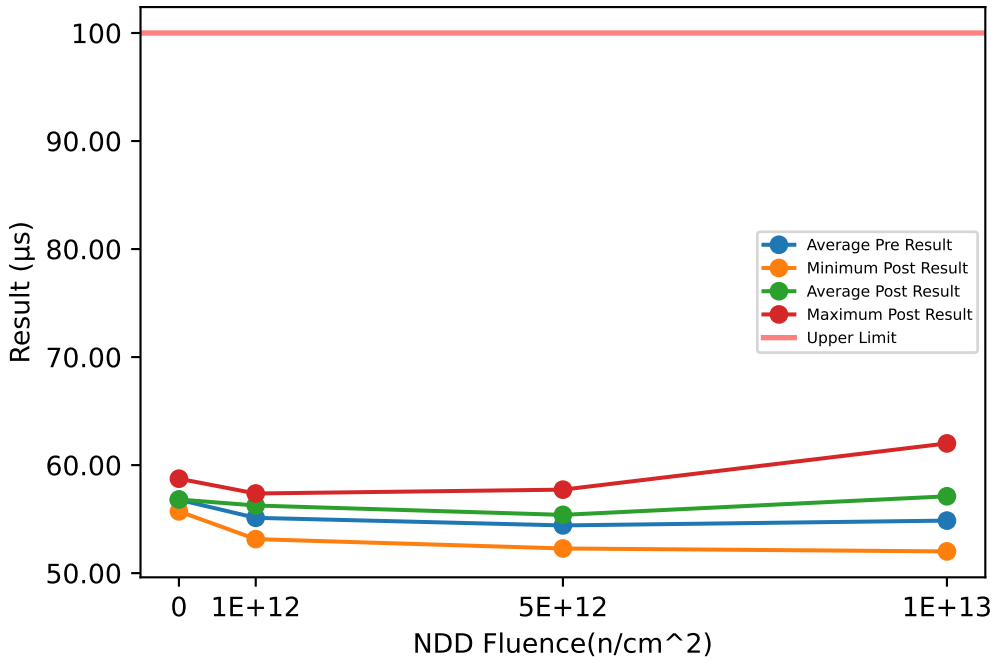


Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	196.64	199.89	203.76	2.9937	196.14	199.04	203.19	2.9945	-1.3898	-0.84917	-0.4928	0.4086
1e+12	196.94	199.93	202.42	2.4258	197.28	200.54	202.77	2.3444	0.2122	0.60773	1.5282	0.61687
5e+12	194.47	199.91	204.8	4.2379	196.61	202.12	205.89	3.9411	1.0879	2.2129	3.6139	1.045
1e+13	195.41	197.13	200.67	2.4635	196.46	200.25	204.32	3.322	1.0419	3.1258	4.2279	1.419

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

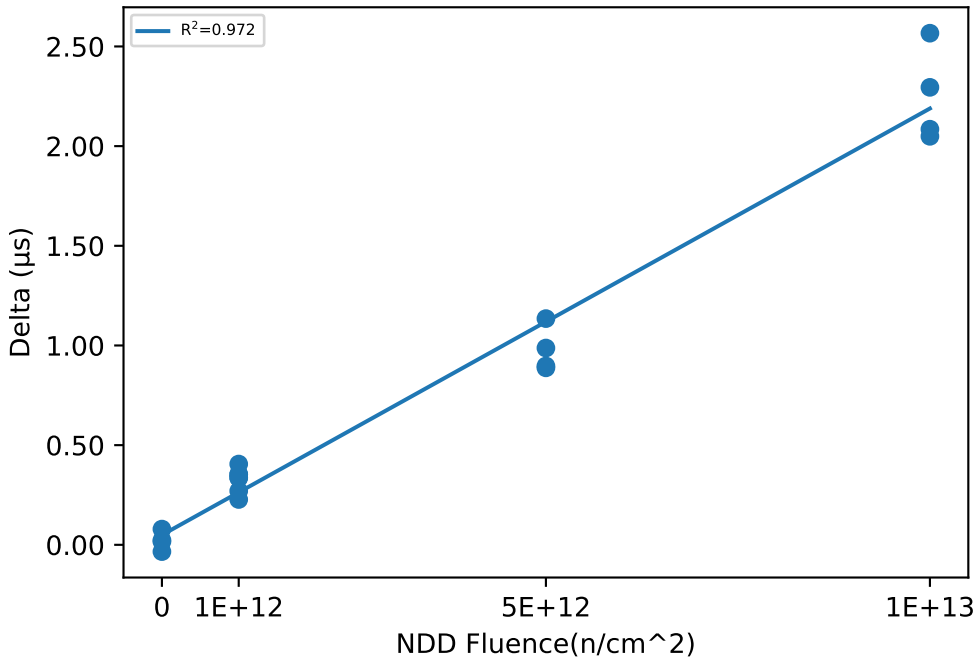
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	57.021	57.374	0.3537
171	1e+12	NDD	56.724	56.994	0.2701
269	1e+12	NDD	53.997	54.224	0.2274
337	1e+12	NDD	52.745	53.151	0.4052
357	5e+12	NDD	55.918	56.806	0.8878
361	5e+12	NDD	56.594	57.729	1.1348
373	5e+12	NDD	53.772	54.76	0.9872
412	5e+12	NDD	51.387	52.284	0.8971
470	1e+13	NDD	55.571	57.865	2.2949
498	1e+13	NDD	59.443	62.009	2.5665
503	1e+13	NDD	54.477	56.562	2.0849
540	1e+13	NDD	49.964	52.013	2.0492
553	0	CORRELATION	58.727	58.744	0.0163
586	0	CORRELATION	56.024	55.99	-0.034
634	0	CORRELATION	56.789	56.813	0.0234
635	0	CORRELATION	55.641	55.719	0.0789

NDD vs Post - Pre Exposure Delta

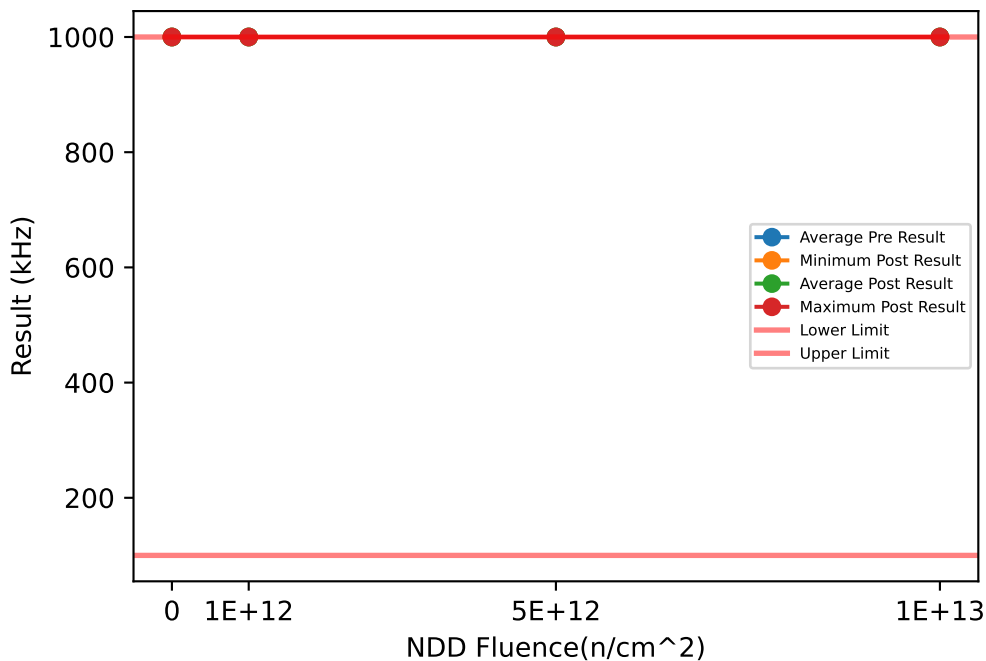


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	55.641	56.795	58.727	1.3737	55.719	56.816	58.744	1.3663	-0.034	0.02115	0.0789	0.046207
1e+12	52.745	55.122	57.021	2.0885	53.151	55.436	57.374	2.0717	0.2274	0.3141	0.4052	0.08025
5e+12	51.387	54.418	56.594	2.3516	52.284	55.395	57.729	2.4166	0.8878	0.97673	1.1348	0.11452
1e+13	49.964	54.864	59.443	3.8996	52.013	57.112	62.009	4.117	2.0492	2.2489	2.5665	0.23788

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

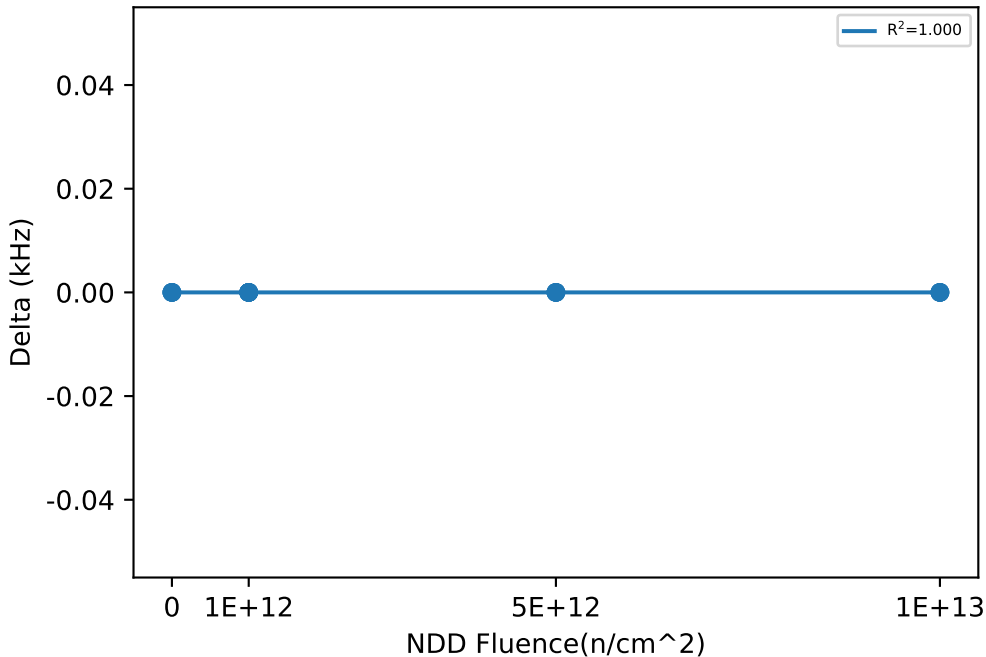
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1000	1000	0
171	1e+12	NDD	1000	1000	0
269	1e+12	NDD	1000	1000	0
337	1e+12	NDD	1000	1000	0
357	5e+12	NDD	1000	1000	0
361	5e+12	NDD	1000	1000	0
373	5e+12	NDD	1000	1000	0
412	5e+12	NDD	1000	1000	0
470	1e+13	NDD	1000	1000	0
498	1e+13	NDD	1000	1000	0
503	1e+13	NDD	1000	1000	0
540	1e+13	NDD	1000	1000	0
553	0	CORRELATION	1000	1000	0
586	0	CORRELATION	1000	1000	0
634	0	CORRELATION	1000	1000	0
635	0	CORRELATION	1000	1000	0

NDD vs Post - Pre Exposure Delta

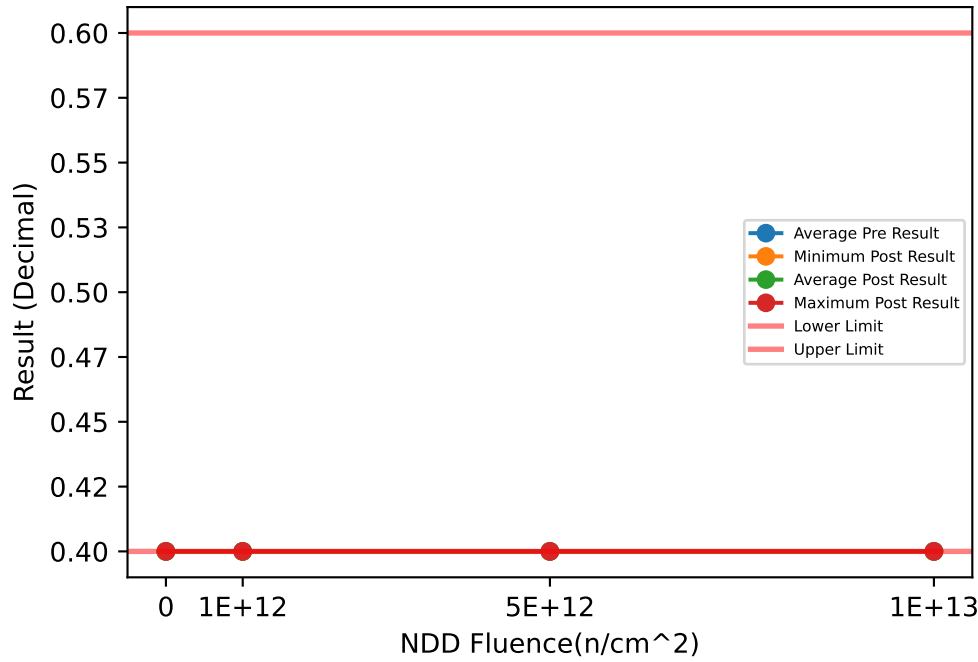


Test Statistics (kHz)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

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

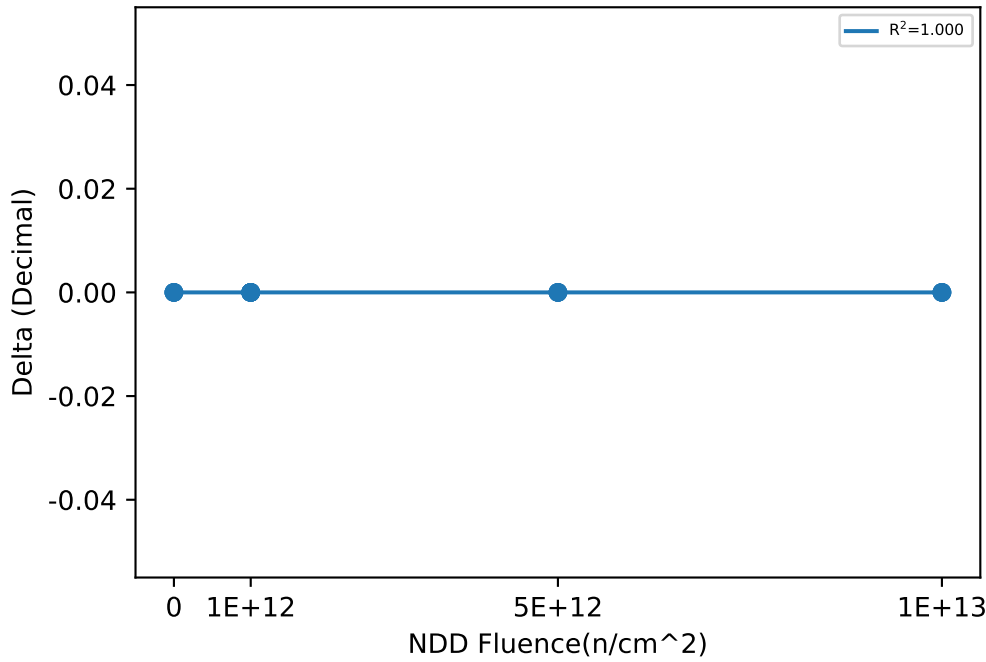
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.4	0.4	0
171	1e+12	NDD	0.4	0.4	0
269	1e+12	NDD	0.4	0.4	0
337	1e+12	NDD	0.4	0.4	0
357	5e+12	NDD	0.4	0.4	0
361	5e+12	NDD	0.4	0.4	0
373	5e+12	NDD	0.4	0.4	0
412	5e+12	NDD	0.4	0.4	0
470	1e+13	NDD	0.4	0.4	0
498	1e+13	NDD	0.4	0.4	0
503	1e+13	NDD	0.4	0.4	0
540	1e+13	NDD	0.4	0.4	0
553	0	CORRELATION	0.4	0.4	0
586	0	CORRELATION	0.4	0.4	0
634	0	CORRELATION	0.4	0.4	0
635	0	CORRELATION	0.4	0.4	0

NDD vs Post - Pre Exposure Delta

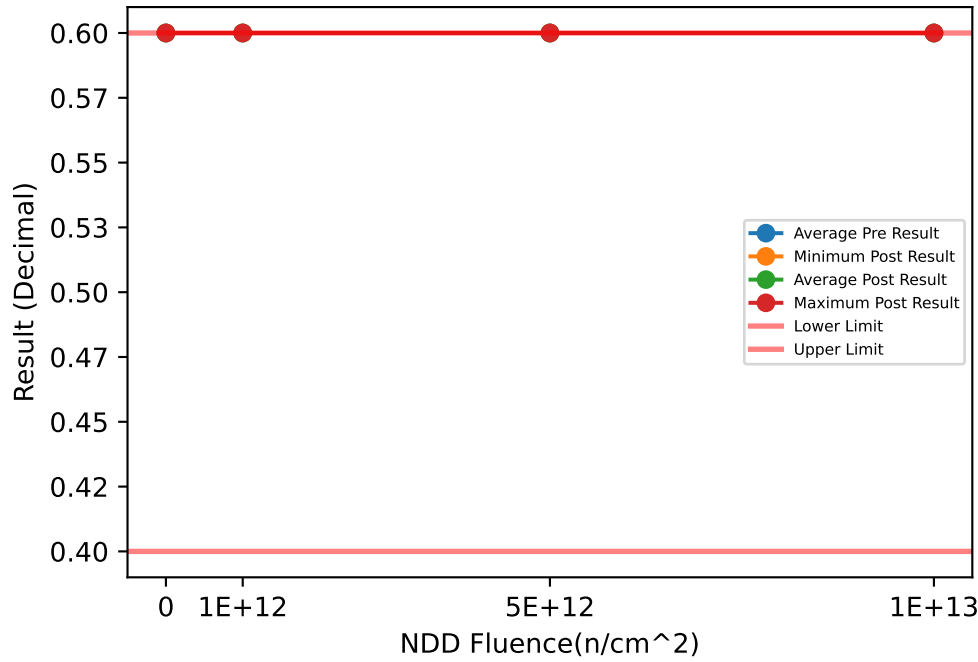


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

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

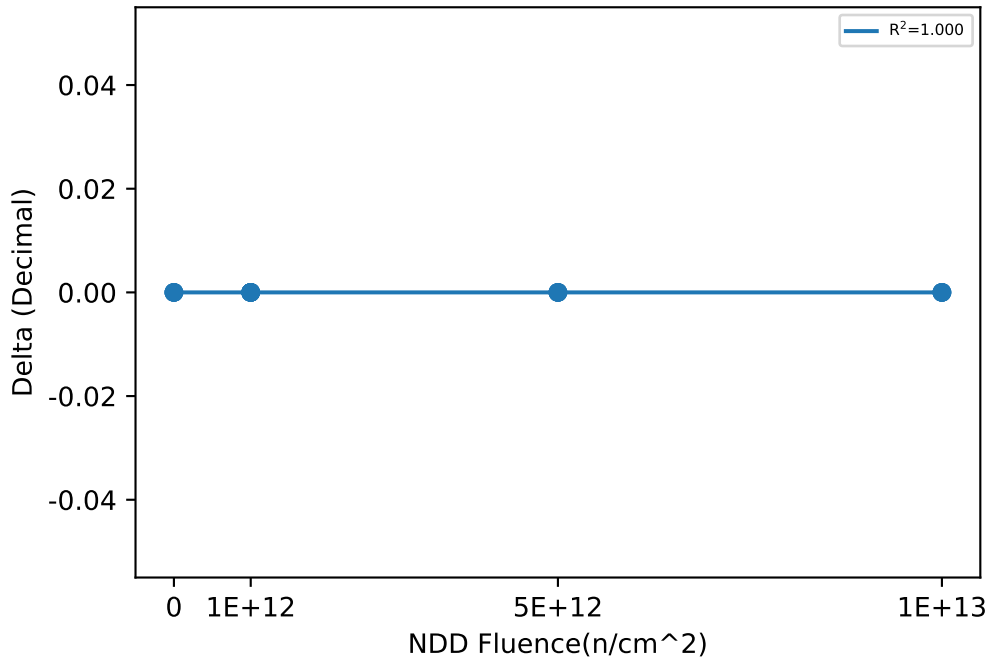
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.6	0
171	1e+12	NDD	0.6	0.6	0
269	1e+12	NDD	0.6	0.6	0
337	1e+12	NDD	0.6	0.6	0
357	5e+12	NDD	0.6	0.6	0
361	5e+12	NDD	0.6	0.6	0
373	5e+12	NDD	0.6	0.6	0
412	5e+12	NDD	0.6	0.6	0
470	1e+13	NDD	0.6	0.6	0
498	1e+13	NDD	0.6	0.6	0
503	1e+13	NDD	0.6	0.6	0
540	1e+13	NDD	0.6	0.6	0
553	0	CORRELATION	0.6	0.6	0
586	0	CORRELATION	0.6	0.6	0
634	0	CORRELATION	0.6	0.6	0
635	0	CORRELATION	0.6	0.6	0

NDD vs Post - Pre Exposure Delta

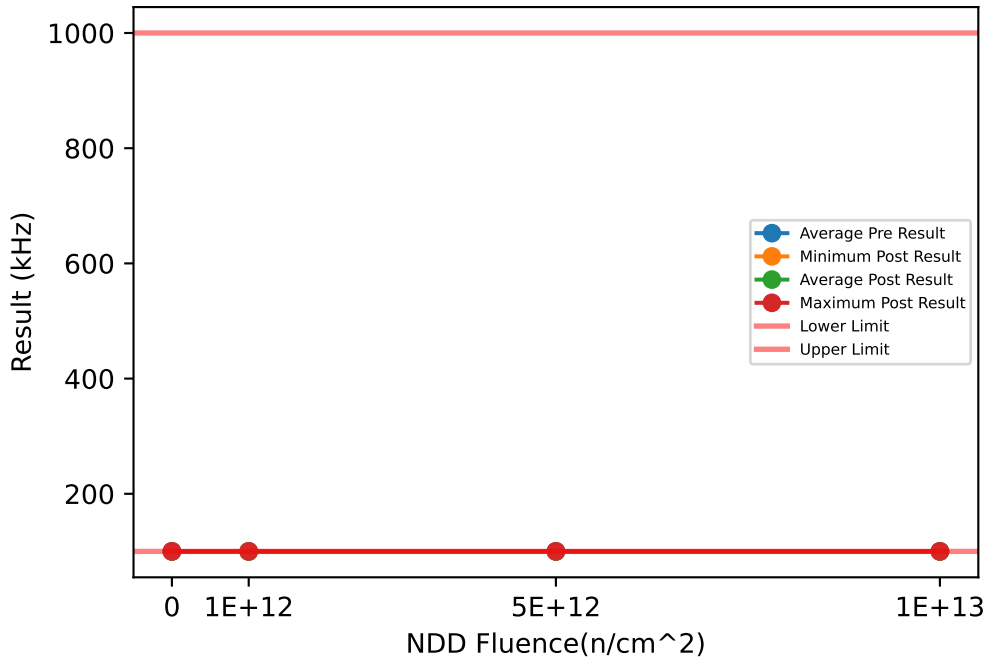


Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

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

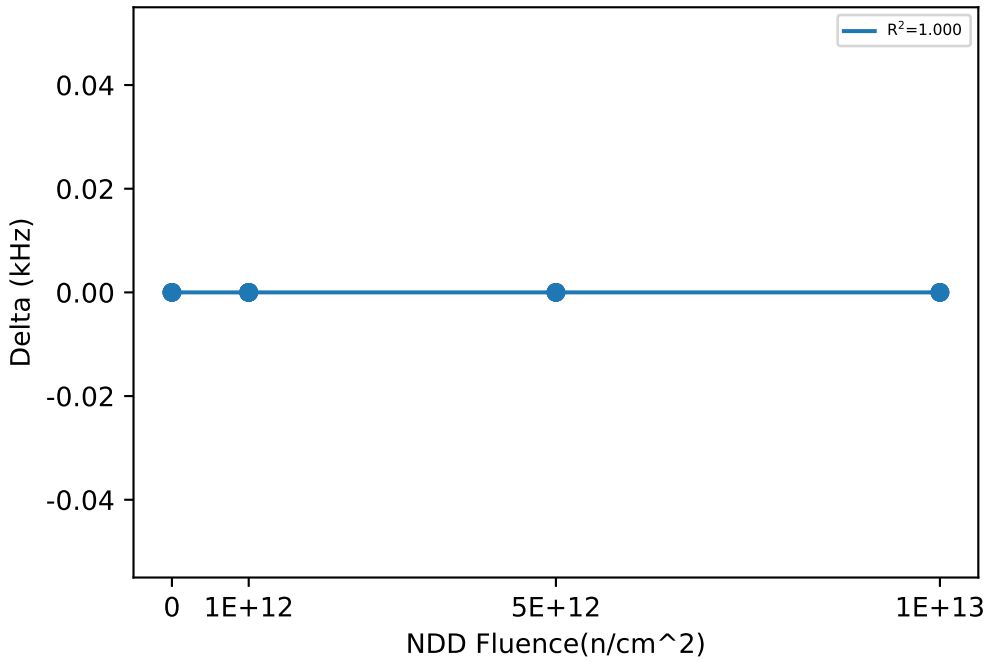
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	100	100	0
171	1e+12	NDD	100	100	0
269	1e+12	NDD	100	100	0
337	1e+12	NDD	100	100	0
357	5e+12	NDD	100	100	0
361	5e+12	NDD	100	100	0
373	5e+12	NDD	100	100	0
412	5e+12	NDD	100	100	0
470	1e+13	NDD	100	100	0
498	1e+13	NDD	100	100	0
503	1e+13	NDD	100	100	0
540	1e+13	NDD	100	100	0
553	0	CORRELATION	100	100	0
586	0	CORRELATION	100	100	0
634	0	CORRELATION	100	100	0
635	0	CORRELATION	100	100	0

NDD vs Post - Pre Exposure Delta

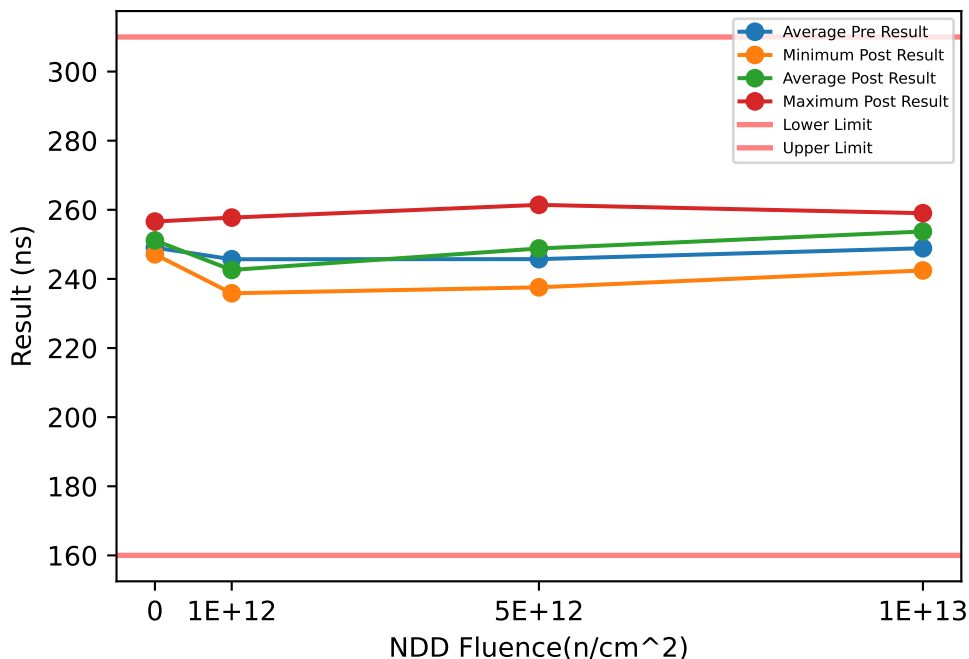


Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	100	100	100	0	100	100	100	0	0	0	0	0
1e+12	100	100	100	0	100	100	100	0	0	0	0	0
5e+12	100	100	100	0	100	100	100	0	0	0	0	0
1e+13	100	100	100	0	100	100	100	0	0	0	0	0

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

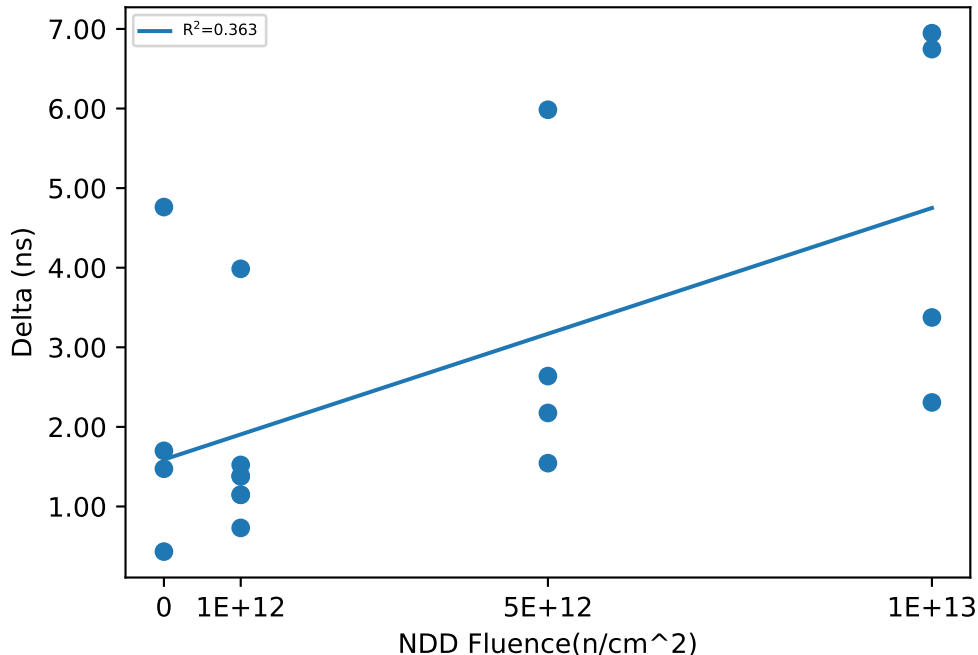
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	234.7	235.84	1.1469
171	1e+12	NDD	257.01	257.75	0.7307
269	1e+12	NDD	242.73	246.71	3.9859
337	1e+12	NDD	248.33	249.85	1.5221
357	5e+12	NDD	236.02	237.57	1.5443
361	5e+12	NDD	259.25	261.43	2.1751
373	5e+12	NDD	243.5	249.48	5.9844
412	5e+12	NDD	244.12	246.76	2.6383
470	1e+13	NDD	240.15	242.45	2.3072
498	1e+13	NDD	254.76	258.13	3.3747
503	1e+13	NDD	248.34	255.29	6.9464
540	1e+13	NDD	252.27	259.02	6.7462
553	0	CORRELATION	246.69	247.12	0.4331
586	0	CORRELATION	254.9	256.6	1.6993
634	0	CORRELATION	242.86	247.62	4.7619
635	0	CORRELATION	251.74	253.21	1.474

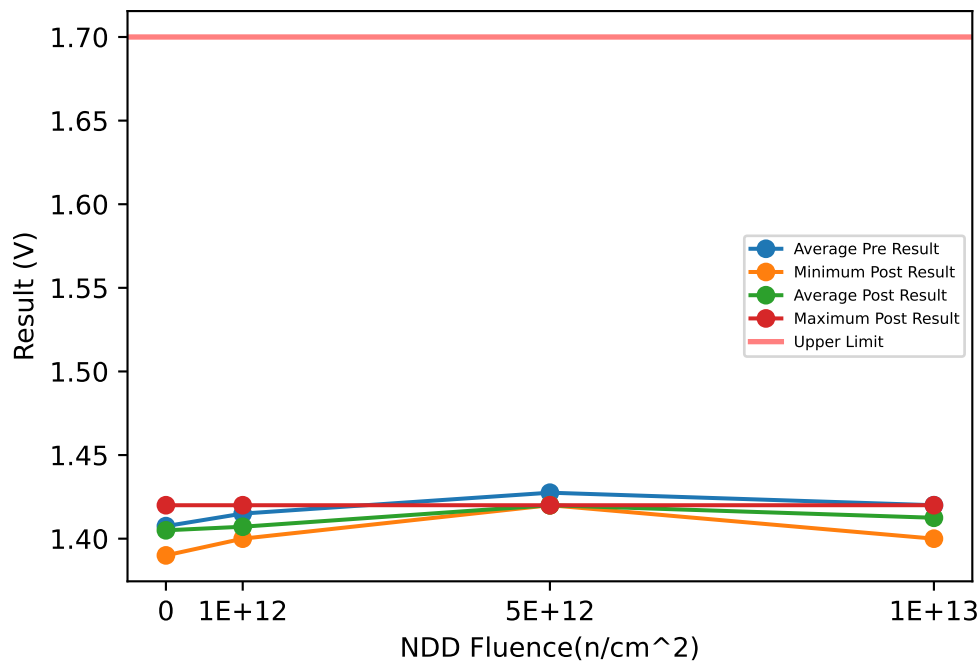
NDD vs Post - Pre Exposure Delta



Test Statistics (ns)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	242.86	249.05	254.9	5.335	247.12	251.14	256.6	4.5701	0.4331	2.0921	4.7619	1.8634
1e+12	234.7	245.69	257.01	9.3956	235.84	247.54	257.75	9.0731	0.7307	1.8464	3.9859	1.4625
5e+12	236.02	245.72	259.25	9.7401	237.57	248.81	261.43	9.8354	1.5443	3.0855	5.9844	1.9839
1e+13	240.15	248.88	254.76	6.3945	242.45	253.72	259.02	7.6808	2.3072	4.8436	6.9464	2.3546

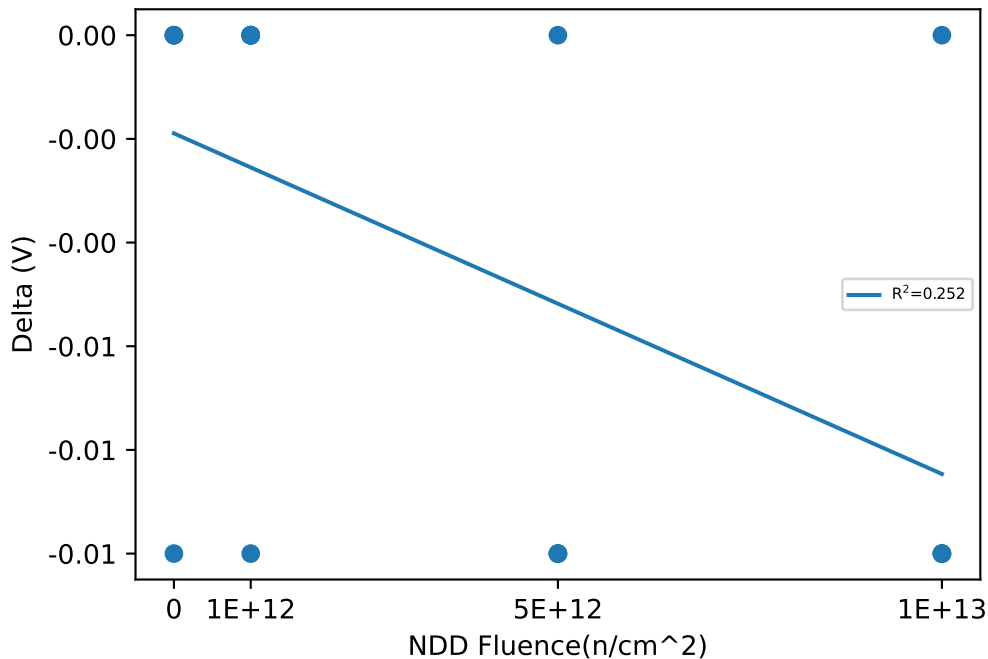
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.4	1.4	0
171	1e+12	NDD	1.43	1.42	-0.01
269	1e+12	NDD	1.41	1.41	0
337	1e+12	NDD	1.42	1.42	0
357	5e+12	NDD	1.43	1.42	-0.01
361	5e+12	NDD	1.43	1.42	-0.01
373	5e+12	NDD	1.42	1.42	0
412	5e+12	NDD	1.43	1.42	-0.01
470	1e+13	NDD	1.42	1.41	-0.01
498	1e+13	NDD	1.43	1.42	-0.01
503	1e+13	NDD	1.43	1.42	-0.01
540	1e+13	NDD	1.4	1.4	0
553	0	CORRELATION	1.42	1.41	-0.01
586	0	CORRELATION	1.4	1.4	0
634	0	CORRELATION	1.42	1.42	0
635	0	CORRELATION	1.39	1.39	0

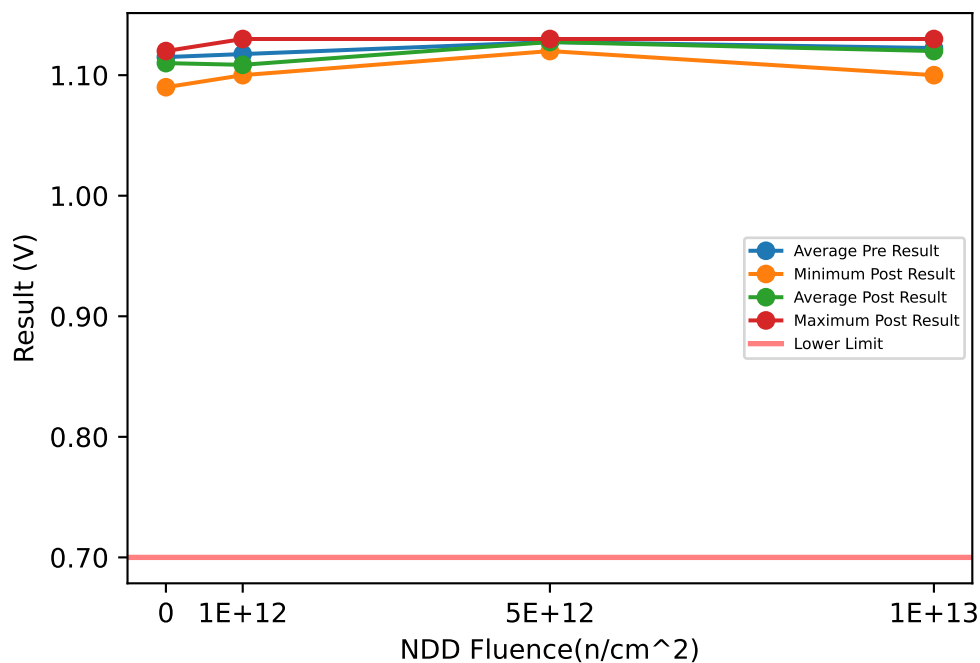
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.39	1.4075	1.42	0.015	1.39	1.405	1.42	0.01291	-0.01	-0.0025	0	0.005
1e+12	1.4	1.415	1.43	0.01291	1.4	1.4125	1.42	0.0095743	-0.01	-0.0025	0	0.005
5e+12	1.42	1.4275	1.43	0.005	1.42	1.42	1.42	0	-0.01	-0.0075	0	0.005
1e+13	1.4	1.42	1.43	0.014142	1.4	1.4125	1.42	0.0095743	-0.01	-0.0075	0	0.005

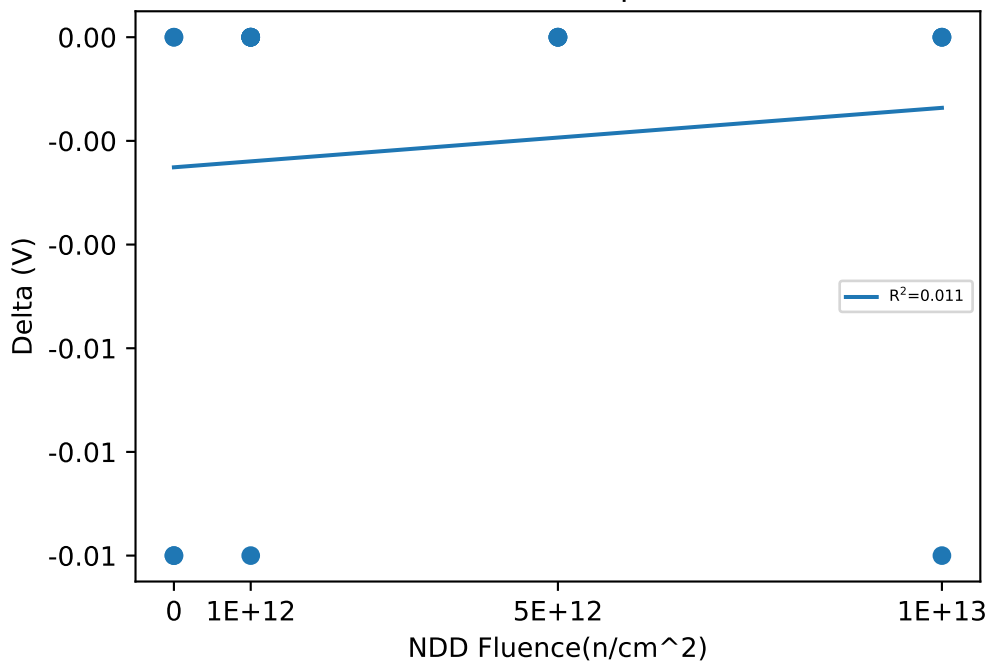
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1.1	1.1	0
171	1e+12	NDD	1.13	1.13	0
269	1e+12	NDD	1.11	1.11	0
337	1e+12	NDD	1.13	1.12	-0.01
357	5e+12	NDD	1.13	1.13	0
361	5e+12	NDD	1.13	1.13	0
373	5e+12	NDD	1.12	1.12	0
412	5e+12	NDD	1.13	1.13	0
470	1e+13	NDD	1.12	1.12	0
498	1e+13	NDD	1.14	1.13	-0.01
503	1e+13	NDD	1.13	1.13	0
540	1e+13	NDD	1.1	1.1	0
553	0	CORRELATION	1.12	1.12	0
586	0	CORRELATION	1.12	1.11	-0.01
634	0	CORRELATION	1.12	1.12	0
635	0	CORRELATION	1.1	1.09	-0.01

NDD vs Post - Pre Exposure Delta

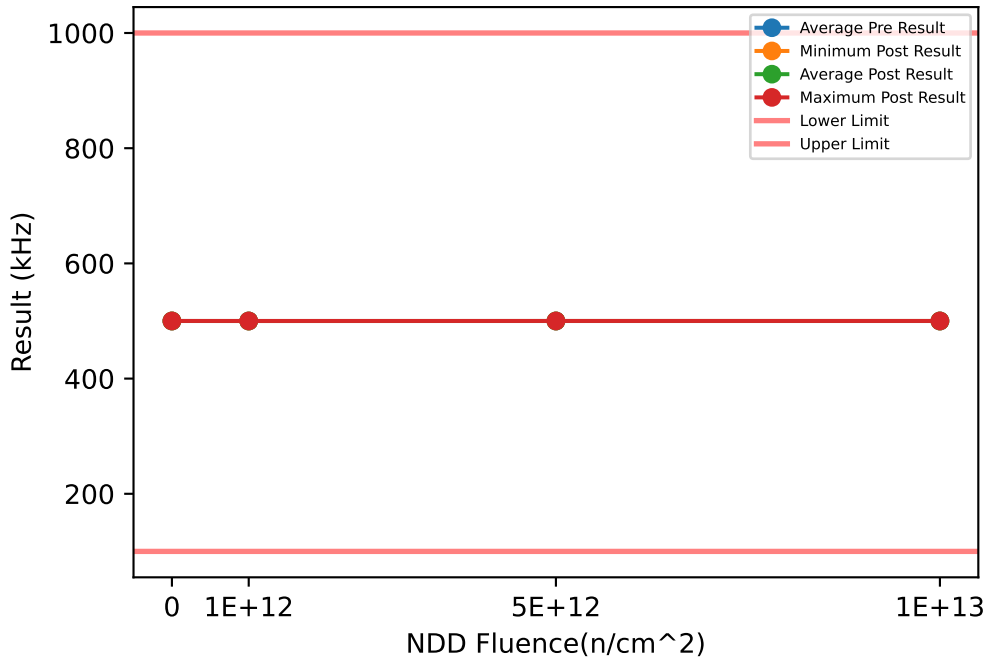


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.1	1.115	1.12	0.01	1.09	1.11	1.12	0.014142	-0.01	-0.005	0	0.0057735
1e+12	1.1	1.1175	1.13	0.015	1.1	1.115	1.13	0.01291	-0.01	-0.0025	0	0.005
5e+12	1.12	1.1275	1.13	0.005	1.12	1.1275	1.13	0.005	0	0	0	0
1e+13	1.1	1.1225	1.14	0.017078	1.1	1.12	1.13	0.014142	-0.01	-0.0025	0	0.005

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

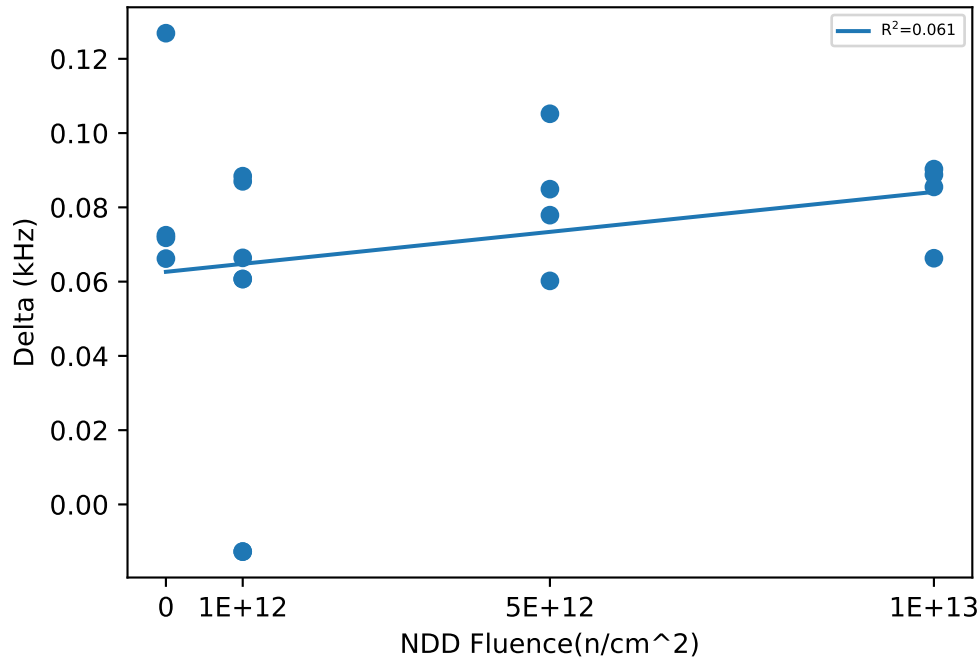
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	499.95	500.01	0.0607
171	1e+12	NDD	499.95	500.04	0.0884
269	1e+12	NDD	499.98	500.05	0.0664
337	1e+12	NDD	499.98	500.07	0.087
357	5e+12	NDD	499.94	500.03	0.0849
361	5e+12	NDD	499.94	500.05	0.1052
373	5e+12	NDD	499.97	500.03	0.0602
412	5e+12	NDD	499.98	500.06	0.0779
470	1e+13	NDD	499.94	500.03	0.0888
498	1e+13	NDD	499.96	500.05	0.0903
503	1e+13	NDD	499.97	500.05	0.0855
540	1e+13	NDD	499.97	500.03	0.0663
553	0	CORRELATION	499.95	500.02	0.0725
586	0	CORRELATION	499.94	500.07	0.1269
634	0	CORRELATION	499.97	500.04	0.0718
635	0	CORRELATION	499.98	500.04	0.0662

NDD vs Post - Pre Exposure Delta

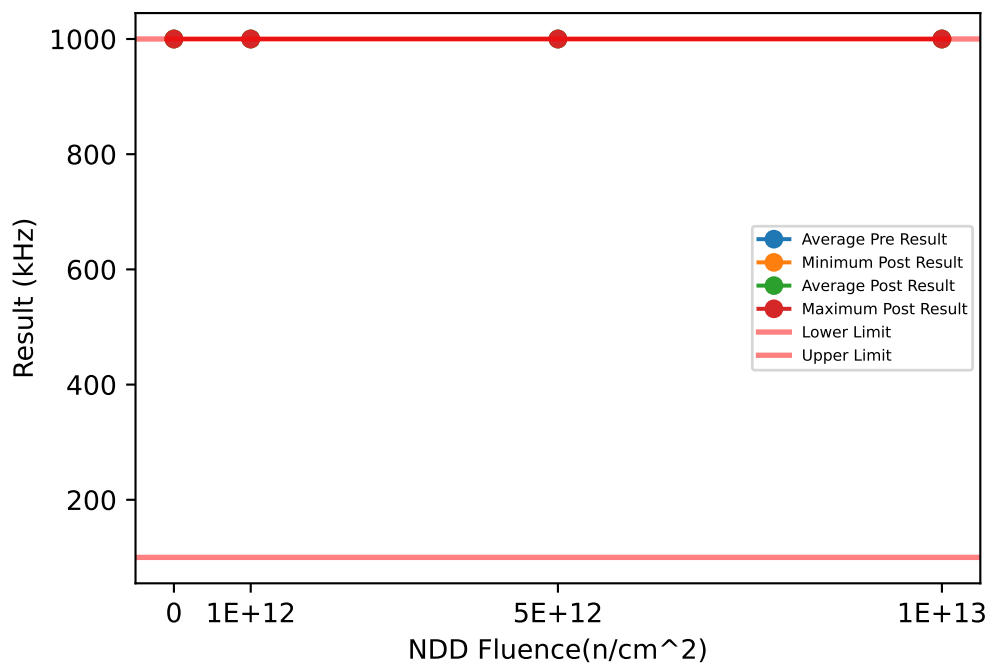


Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	499.94	499.96	499.98	0.014735	500.02	500.04	500.07	0.019795	0.0662	0.08435	0.1269	0.028506
1e+12	499.95	499.96	499.98	0.018126	500.01	500.04	500.07	0.023321	0.0607	0.075625	0.0884	0.014147
5e+12	499.94	499.96	499.98	0.02129	500.03	500.04	500.06	0.015819	0.0602	0.08205	0.1052	0.018607
1e+13	499.94	499.96	499.97	0.013776	500.03	500.04	500.05	0.013704	0.0663	0.082725	0.0903	0.011132

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

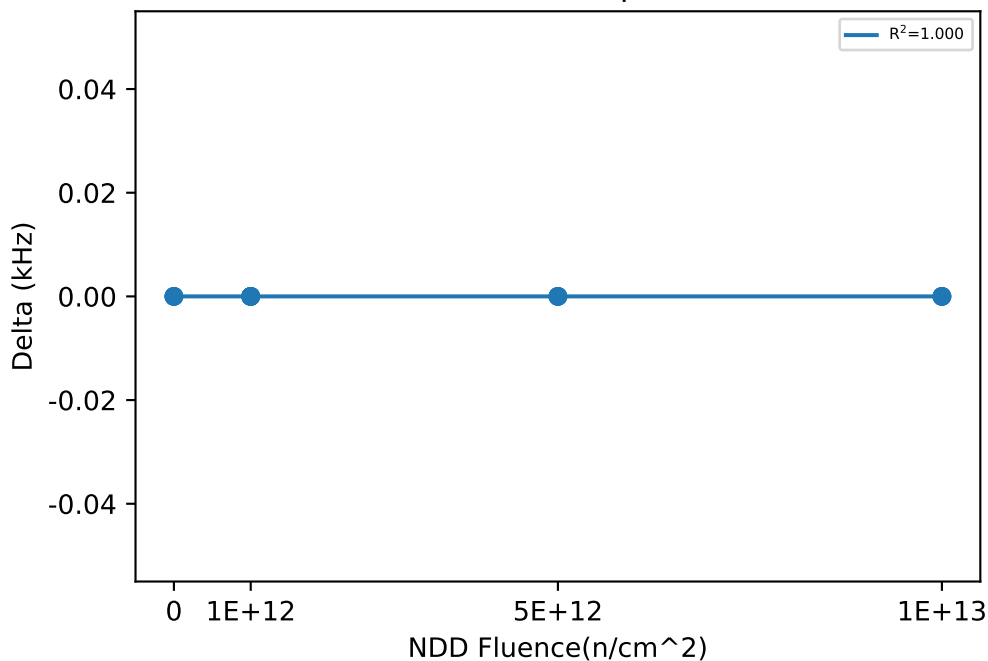
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	1000	1000	0
171	1e+12	NDD	1000	1000	0
269	1e+12	NDD	1000	1000	0
337	1e+12	NDD	1000	1000	0
357	5e+12	NDD	1000	1000	0
361	5e+12	NDD	1000	1000	0
373	5e+12	NDD	1000	1000	0
412	5e+12	NDD	1000	1000	0
470	1e+13	NDD	1000	1000	0
498	1e+13	NDD	1000	1000	0
503	1e+13	NDD	1000	1000	0
540	1e+13	NDD	1000	1000	0
553	0	CORRELATION	1000	1000	0
586	0	CORRELATION	1000	1000	0
634	0	CORRELATION	1000	1000	0
635	0	CORRELATION	1000	1000	0

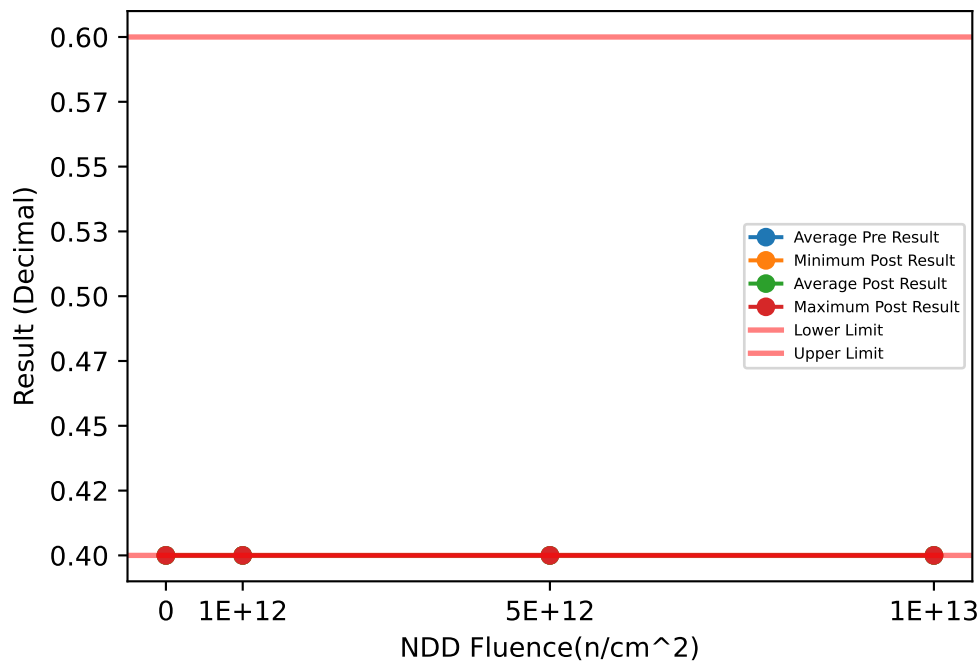
NDD vs Post - Pre Exposure Delta



Test Statistics (kHz)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
5e+12	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0
1e+13	1000	1000	1000	0	1000	1000	1000	0	0	0	0	0

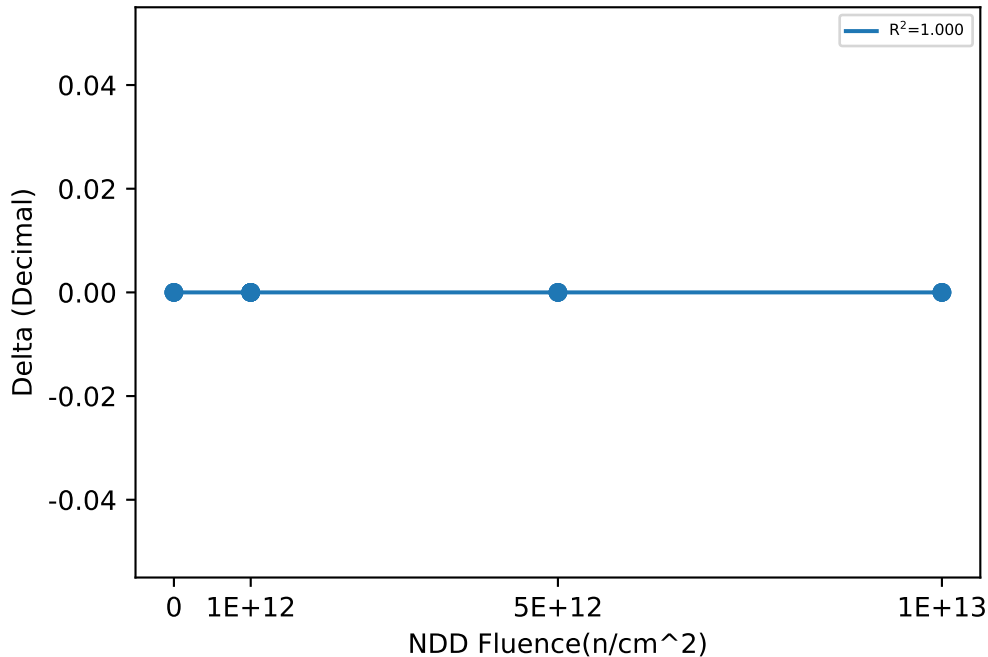
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.4	0.4	0
171	1e+12	NDD	0.4	0.4	0
269	1e+12	NDD	0.4	0.4	0
337	1e+12	NDD	0.4	0.4	0
357	5e+12	NDD	0.4	0.4	0
361	5e+12	NDD	0.4	0.4	0
373	5e+12	NDD	0.4	0.4	0
412	5e+12	NDD	0.4	0.4	0
470	1e+13	NDD	0.4	0.4	0
498	1e+13	NDD	0.4	0.4	0
503	1e+13	NDD	0.4	0.4	0
540	1e+13	NDD	0.4	0.4	0
553	0	CORRELATION	0.4	0.4	0
586	0	CORRELATION	0.4	0.4	0
634	0	CORRELATION	0.4	0.4	0
635	0	CORRELATION	0.4	0.4	0

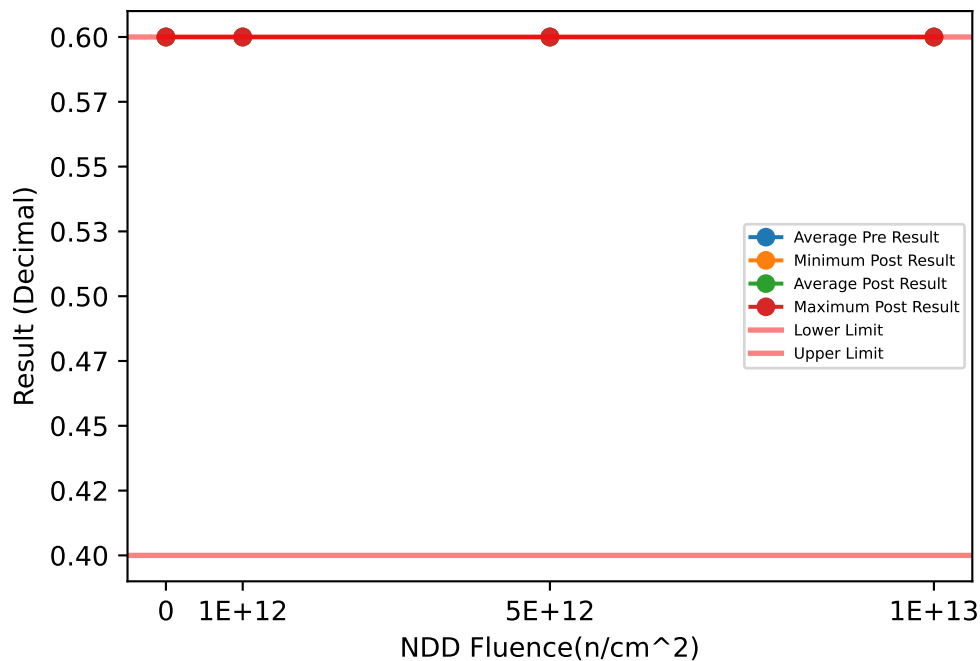
NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
5e+12	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0
1e+13	0.4	0.4	0.4	0	0.4	0.4	0.4	0	0	0	0	0

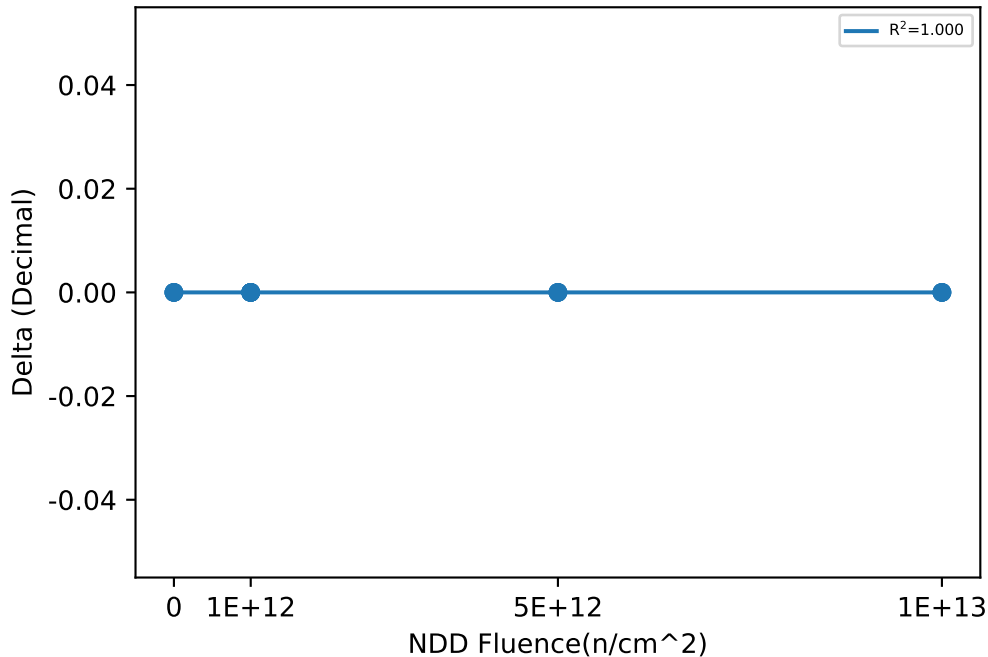
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
129	1e+12	NDD	0.6	0.6	0
171	1e+12	NDD	0.6	0.6	0
269	1e+12	NDD	0.6	0.6	0
337	1e+12	NDD	0.6	0.6	0
357	5e+12	NDD	0.6	0.6	0
361	5e+12	NDD	0.6	0.6	0
373	5e+12	NDD	0.6	0.6	0
412	5e+12	NDD	0.6	0.6	0
470	1e+13	NDD	0.6	0.6	0
498	1e+13	NDD	0.6	0.6	0
503	1e+13	NDD	0.6	0.6	0
540	1e+13	NDD	0.6	0.6	0
553	0	CORRELATION	0.6	0.6	0
586	0	CORRELATION	0.6	0.6	0
634	0	CORRELATION	0.6	0.6	0
635	0	CORRELATION	0.6	0.6	0

NDD vs Post - Pre Exposure Delta



Test Statistics (Decimal)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
5e+12	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0
1e+13	0.6	0.6	0.6	0	0.6	0.6	0.6	0	0	0	0	0

6 Revision History

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

Changes from Revision A (December 2025) to Revision B (June 2026) Page

- Updated Test Facility section..... 3
 - Updated electrical characteristics table..... 4
-

Changes from Revision * (November 2025) to Revision A (December 2025) Page

- Added test numbers to electrical characteristics table..... 4
 - Updated appendix data and added test parameter decoder..... 12
-

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