

TPS7H4012 Plastic Neutron Displacement Damage (NDD) Characterization Report



ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the Texas Instruments TPS7H4012-SP. The TPS7H4012-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. 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 to determine if these parameters are within specified limits after exposure to a specified level of neutron fluence.

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1 Device Information

1.1 Product Description

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

The wide voltage range of the TPS7H4012 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	TPS7H4012-SP
TI Part Name	5962R2122103PYE
Package	44-pin DDW (HTSSOP)
Technology	Linear BiCMOS (LBC7)
Lot Number / Date Code	5391994/56AVQNK
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)

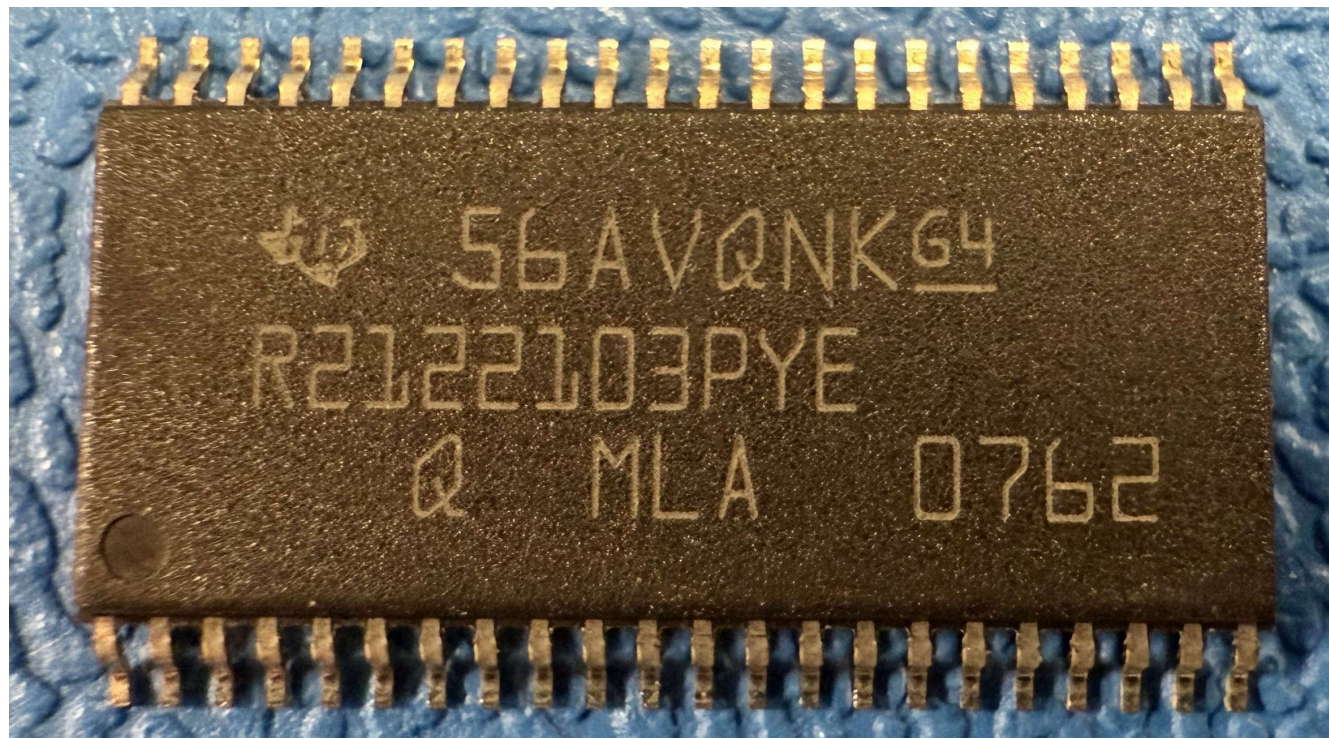


Figure 1-1. TPS7H4012-SP Device

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 TPS7H4012-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 1E12 n/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 1E6 n/cm²-s. The maximum neutron fluence rate is approximately 1E11 n/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: 1.0×10^{12} n/cm², 5.0×10^{12} n/cm² and 1.0×10^{13} n/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 was exposed for neutron irradiation and an additional four unirradiated control units were used as correlation. Overall, the TPS7H4012-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 data sheet 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

Table 3-1. Data Sheet Electrical Parameter Characteristics

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
POWER SUPPLIES AND CURRENTS								
V _{UVLOR_PVIN}	PVIN internal UVLO rising threshold			1, 2, 3	3.2	3.4	3.6	V
V _{UVLOHYST_PVIN}	PVIN internal UVLO hysteresis			1, 2, 3	425	450	500	mV
V _{UVLOR_VIN}	VIN internal UVLO rising threshold			1, 2, 3	3.4	3.6	3.8	V
V _{UVLOHYST_VIN}	VIN internal UVLO hysteresis			1, 2, 3	140	155	170	mV
I _{SHDN_VIN}	VIN shutdown supply current	V _{EN} = 0V	VIN = 4.5V	1, 2, 3		2	2.9	mA
			VIN = 14V	1, 2, 3		2	3	
I _{SHDN_PVIN}	PVIN shutdown supply current	V _{EN} = 0V	PVIN = 4.5V	1, 2, 3		2.6	3.5	mA
			PVIN = 14V	1, 2, 3		3.5	4.7	
I _{Q_VIN}	VIN operating quiescent current (non switching)	V _{EN} = 7V, VSNS+ = 1V		1, 2, 3		2.6	5	mA
ENABLE								
V _{EN(rising)}	Enable rising threshold (turn-on)			1, 2, 3	0.555	0.61	0.655	V
V _{EN(falling)}	Enable falling threshold (turn-off)			1, 2, 3	0.455	0.51	0.554	V
t _{EN(delay)}	Enable propogation delay	EN high to SW high, SS pin open		1, 2, 3		52	100	μs
I _{EN(LKG)}	Enable input leakage current	V _{EN} = 7V		1, 2, 3		2	100	nA
VOLTAGE REFERENCE AND SENSE								
V _{REF}	Internal voltage reference (including error amplifier VIO)	See datasheet	T _A = −55°C	3	0.594	0.598	0.603	V
			T _A = 25°C	1	0.596	0.6	0.603	
			T _A = 125°C	2	0.597	0.6	0.604	

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
V _{REF(internal)}	Internal voltage reference (without error amplifier included)	V _{REF(internal)} = V _{SS_TR}		1, 2, 3	0.593	0.6	0.606	V
V _{BG}	Bandgap voltage (voltage at the REFCAP pin)	C _{REFCAP} = 470nF		1, 2, 3	1.184	1.2	1.222	V
I _{VSNS+(LKG)}	VSNS+ input leakage current	VSNS+ = 0.6V		1, 2, 3		10	30	nA
ERROR AMPLIFIER								
V _{IO}	Error amplifier input offset voltage	VSNS+ = 0.6V		1, 2, 3	–2.9		2.9	mV
g _{mEA}	Error amplifier transconductance	–10μA < I _{COMP} < 10μA, V _{COMP} = 1V	T _A = –55°C	11	1400	2050	2700	μS
			T _A = 25°C	9	1200	1650	2100	
			T _A = 125°C	10	1000	1250	1500	
EA _{DC}	Error amplifier DC gain	VSNS+ = 0.6V				11500		V/V
EA _{ISRC}	Error amplifier source	V _{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	μA
EA _{ISNK}	Error amplifier sink	V _{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	μA
EA _{Ro}	Error amplifier output resistance					7		MΩ
EA _{BW}	Error amplifier bandwidth	Unity gain bandwidth				9		MHz
g _{mps}	Power stage transconductance	V _{COMP} = 0.7V	TPS7H4012, HTSSOP	1, 2, 3	8	11.2	14.5	S
OVERCURRENT PROTECTION								
I _{OC_HS1}	High-side switch current limit threshold 1(4)	R _{SHORT} = 100mΩ	TPS7H4012, HTSSOP	1, 2, 3		9.7	12.2	A
I _{OC_HS2}	High-side switch current limit threshold 2	V _{IN} = 12V, R _{SHORT} ≈ 4mΩ	TPS7H4012, HTSSOP	1, 2, 3		11.8		A
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
		T _A = 125°C		2		1.7		A
COMP _{SHDN}	COMP shutdown voltage			1, 2, 3	1.7	1.9	2.1	V
t _{COMP(delay)}	COMP shutdown delay			9, 10, 11		30		μs
SOFT START AND TRACKING								

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
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
			CSS = 22nF	9, 10, 11	4.7	5.8	7.3	
			CSS = 100nF	9, 10, 11		24.7		
R _{SS(discharge)}	Soft start discharge pull-down resistor			1, 2, 3	200	442	700	Ω
SS _{startup}	Maximum voltage on SS before startup(5)					20		mV
SLOPE COMPENSATION								
SC	Slope compensation, TPS74012	f _{SW} = 100kHz, VIN = 12V	RSC = 499kΩ			−0.8		A/μs
			RSC = 1.5MΩ			−0.3		
		f _{SW} = 500kHz, VIN = 12V	RSC = 100kΩ			−4.2		A/μs
			RSC = 499kΩ			−1.4		
			RSC = 1.5MΩ			−1		
		f _{SW} = 1000kHz, VIN = 12V	RSC = 100kΩ			−5.5		A/μs
			RSC = 499kΩ			−2.4		
			RSC = 1.5MΩ			−2.3		
MINIMUM ON TIME AND DEAD TIME								
t _{on(min)}	Minimum on time	50% to 50% of VIN, I _{SW} = 2A	VIN = 4.5V	9, 10, 11		210	235	ns
			VIN = 5V	9, 10, 11		213	250	
			VIN = 12V	9, 10, 11		199	250	
			VIN = 14V	9, 10, 11		199	250	
t _{off(min)}	Minimum off time	I _{SW} = 2A				306		ns
t _{dead}	Dead time					70		ns
SWITCHING FREQUENCY AND SYNCHRONIZATION								
f _{SW}	RT programmed switching frequency	R _{RT} = 511kΩ		4, 5, 6	90	100	120	kHz
		R _{RT} = 90.9kΩ		4, 5, 6	450	500	550	kHz
		R _{RT} = 40.2kΩ	VIN = 4.5V	4, 5, 6	850	1000	1150	kHz
			5 ≤ VIN ≤ 14	4, 5, 6	870	1000	1170	
t _{SYNC_D}	SYNC1 to SW delay	SYNC1 input	VIN = 4.5V	9, 10, 11	150	256	390	ns
			5V ≤ VIN ≤ 14V	9, 10, 11	160	240	310	
			VIN = 12V, IOUT = 3A				246	
V _{SYNC1(IH)}	SYNC1 input high threshold			1, 2, 3			1.7	V
V _{SYNC1(IL)}	SYNC1 input low threshold			1, 2, 3	0.7			V
f _{SYNC}	SYNC1 input frequency range			4, 5, 6	100		1000	kHz
D _{SYNC}	SYNC1 input duty cycle range	External clock duty cycle		4, 5, 6	40%		60%	

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
t _{CLK_E_I}	External clock to internal clock detection time	RT populated		9, 10, 11		2	5	(1/f _{sw}) s
t _{CLK_I_E}	Internal clock to external clock detection time	RT populated		9, 10, 11		1	2	(1/f _{sw}) s
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%	
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%	
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%	
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%	
I _{PWRGD(LKG)}	Output high leakage	VSNS+ = V _{REF} , V _{PWRGD} = 7V		1, 2, 3		50	500	nA
V _{PWRGD(OL)}	Power good output low	I _{PWRGD(SINK)} = 0mA to 2mA		1, 2, 3		250	300	mV
V _{INMIN_PWRGD}	Minimum VIN for valid PWRGD output	Measured when V _{PWRGD} ≤ 0.5V at 100μA		1, 2, 3		1	2	V
T _{SD(enter)}	Thermal shutdown enter temperature					175		°C
T _{SD(exit)}	Thermal shutdown exit temperature					140		°C
T _{SD(HYS)}	Thermal shutdown hysteresis					35		°C
MOSFET								
R _{DS_ON_HS}	High-side switch resistance at I _{HS} = 6A, TPS7H4012, HTSSOP	PVIN = 4.5V	T _A = −55°C	3		29	42	mΩ
			T _A = 25°C	1		37	48	
			T _A = 125°C	2		47	63	
		5V ≤ PVIN ≤ 14V	T _A = −55°C	3		26	38	mΩ
			T _A = 25°C	1		33	46	
			T _A = 125°C	2		41	56	

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
$R_{DS_ON_LS}$	Low-side switch resistance at I_{LS} = 6A, TPS7H4012, HTSSOP	PVIN = 4.5V	$T_A = -55^{\circ}\text{C}$	3		20	31	m Ω
			$T_A = 25^{\circ}\text{C}$	1		28	39	
			$T_A = 125^{\circ}\text{C}$	2		41	50	
		5V $\leq$ PVIN $\leq$ 14V	$T_A = -55^{\circ}\text{C}$	3		20	29	m Ω
			$T_A = 25^{\circ}\text{C}$	1		27	37	
			$T_A = 125^{\circ}\text{C}$	2		39	48	

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H4012-SP 4.5V to 14V Input 6A Radiation Hardened Synchronous Buck Converter](#), datasheet.
- Texas Instruments, [TPS7H4012-SP \(TPS7H4012EVM-CVAL\) Evaluation Module User's Guide](#), user's guide.

4.2 Reference Documents

Texas Instruments neutron irradiation test follow 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.

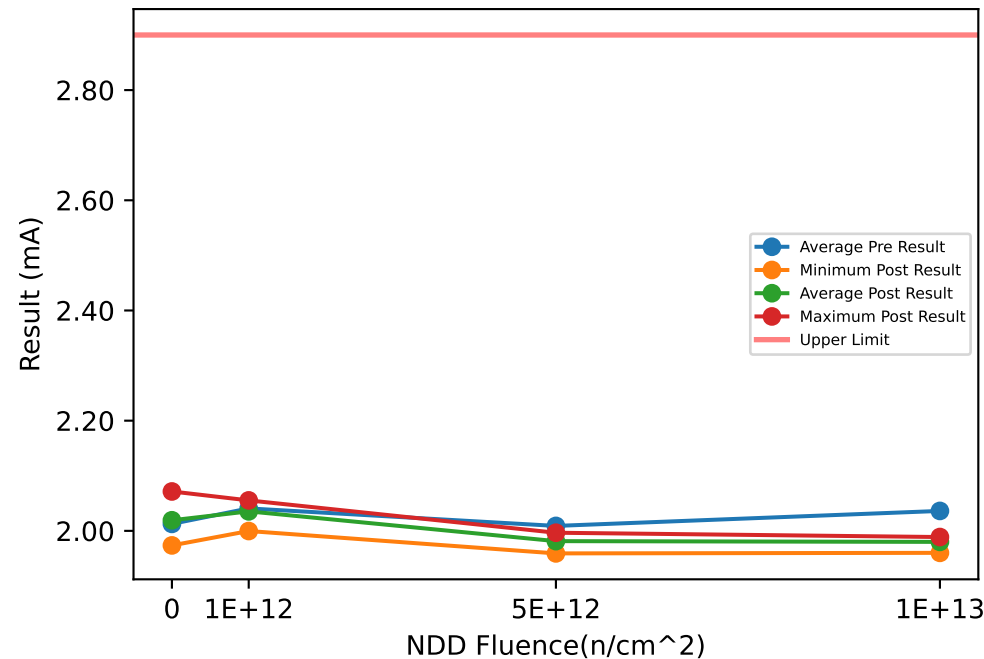
Table A-1. Decoder Implementation, Example Test: IDD|STATIC/VIN/14////@VIN_SHDN_CURR_14V

Test Category	Header	Pin Name	Input Voltage	Load Current	Frequency Set Resistor Vluue	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

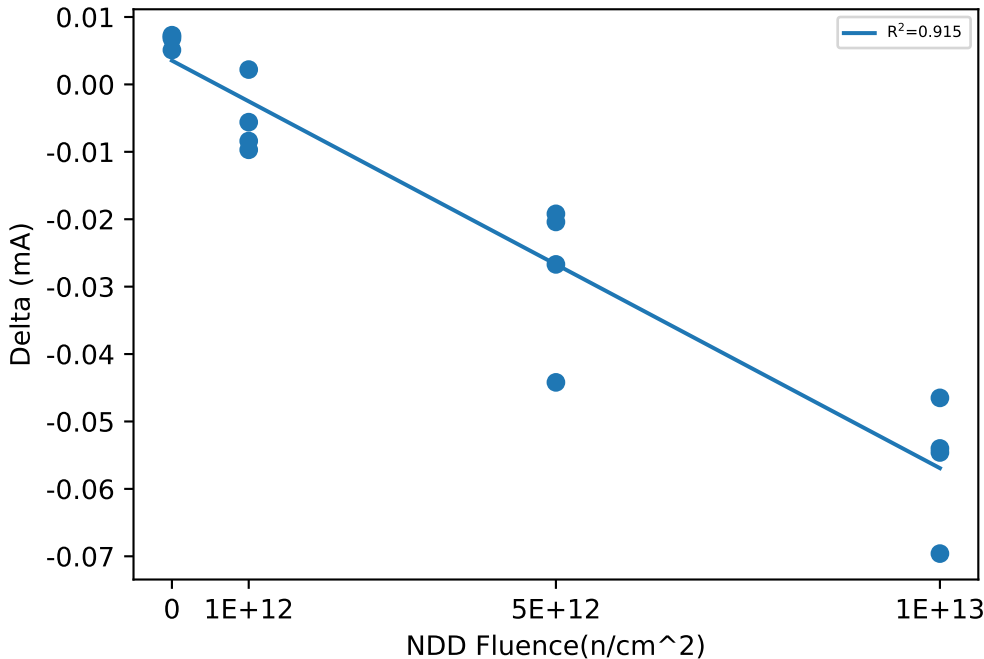
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.042	2.0442	0.0022
266	1e+12	NDD	2.0094	1.9997	-0.0097
267	1e+12	NDD	2.0479	2.0423	-0.0056
288	1e+12	NDD	2.0637	2.0553	-0.0084
348	5e+12	NDD	2.017	1.9966	-0.0204
353	5e+12	NDD	1.9858	1.9591	-0.0267
370	5e+12	NDD	1.9982	1.979	-0.0192
377	5e+12	NDD	2.0349	1.9907	-0.0442
389	1e+13	NDD	2.0428	1.9888	-0.054
394	1e+13	NDD	2.0306	1.9841	-0.0465
395	1e+13	NDD	2.0416	1.987	-0.0546
571	1e+13	NDD	2.0297	1.9601	-0.0696
649	0	CORRELATION	2.0664	2.0715	0.0051
662	0	CORRELATION	1.9663	1.9736	0.0073
690	0	CORRELATION	2.0212	2.028	0.0068
708	0	CORRELATION	1.9967	2.0038	0.0071

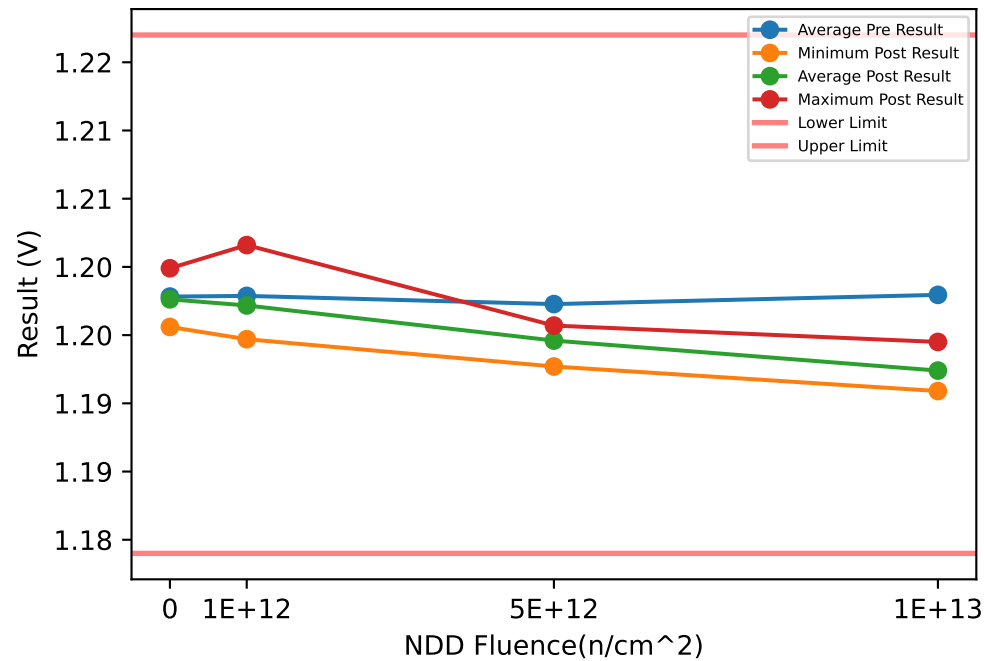
NDD vs Post - Pre Exposure Delta



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	1.9663	2.0126	2.0664	0.042288	1.9736	2.0192	2.0715	0.041349	0.0051	0.006575	0.0073	0.0010046
1e+12	2.0094	2.0408	2.0637	0.02282	1.9997	2.0354	2.0553	0.024465	-0.0097	-0.005375	0.0022	0.0053319
5e+12	1.9858	2.009	2.0349	0.021523	1.9591	1.9813	1.9966	0.016539	-0.0442	-0.027625	-0.0192	0.011529
1e+13	2.0297	2.0362	2.0428	0.006984	1.9601	1.98	1.9888	0.013407	-0.0696	-0.056175	-0.0465	0.009679

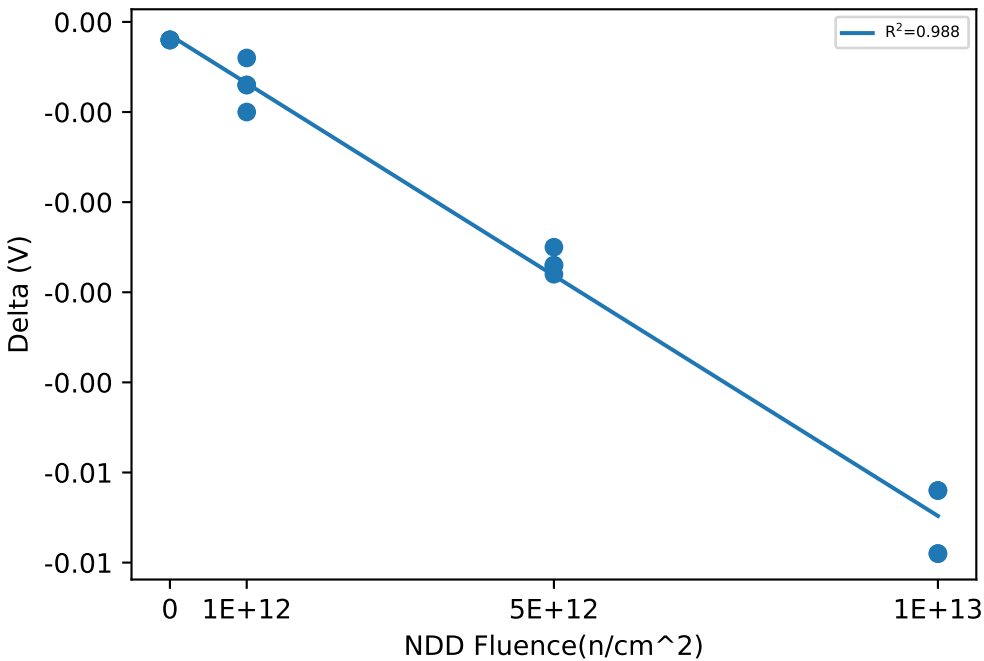
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2004	1.1997	-0.0007
266	1e+12	NDD	1.2007	1.1997	-0.001
267	1e+12	NDD	1.2073	1.2066	-0.0007
288	1e+12	NDD	1.2031	1.2027	-0.0004
348	5e+12	NDD	1.2034	1.2007	-0.0027
353	5e+12	NDD	1.2005	1.1977	-0.0028
370	5e+12	NDD	1.2032	1.2007	-0.0025
377	5e+12	NDD	1.202	1.1993	-0.0027
389	1e+13	NDD	1.204	1.1981	-0.0059
394	1e+13	NDD	1.2013	1.1961	-0.0052
395	1e+13	NDD	1.2018	1.1959	-0.0059
571	1e+13	NDD	1.2047	1.1995	-0.0052
649	0	CORRELATION	1.2051	1.2049	-0.0002
662	0	CORRELATION	1.2021	1.2019	-0.0002
690	0	CORRELATION	1.2008	1.2006	-0.0002
708	0	CORRELATION	1.2033	1.2031	-0.0002

NDD vs Post - Pre Exposure Delta

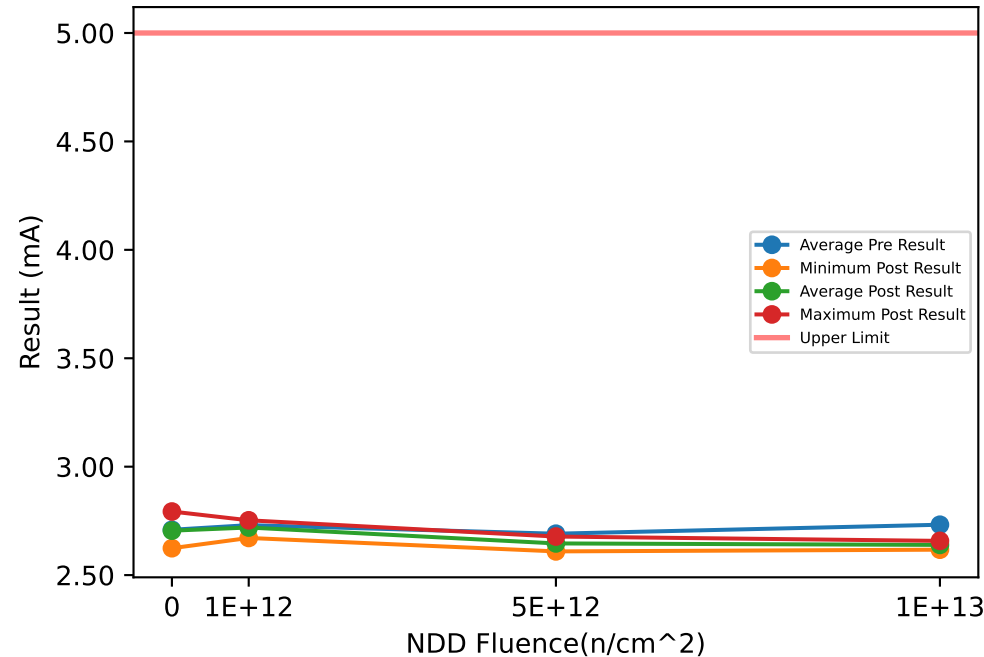


Test Statistics (V)

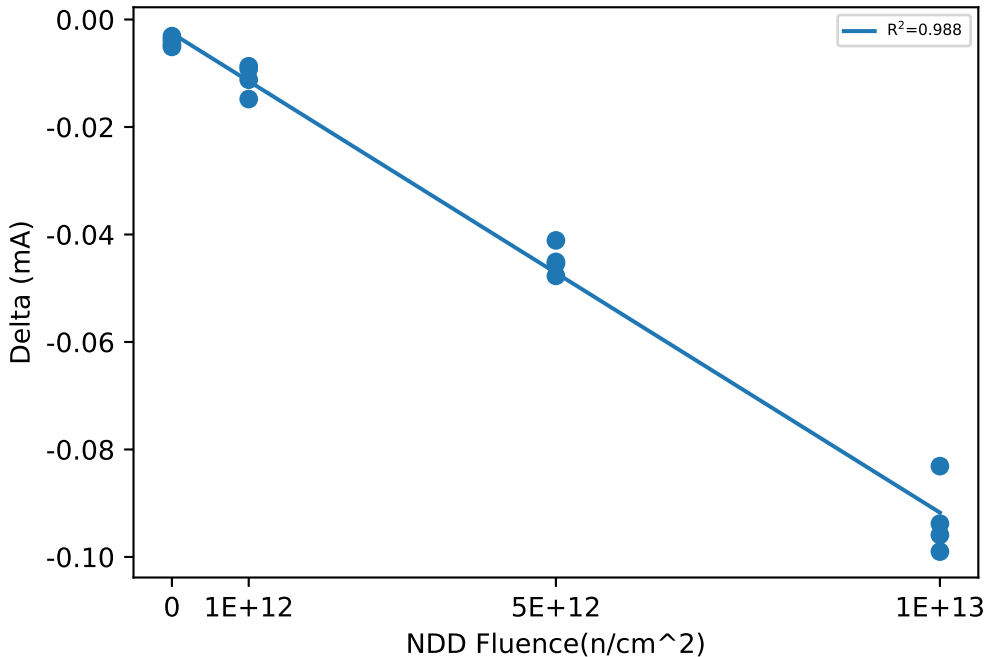
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2008	1.2028	1.2051	0.0018283	1.2006	1.2026	1.2049	0.0018283	-0.0002	-0.0002	-0.0002	1.1102e-16
1e+12	1.2004	1.2029	1.2073	0.0031879	1.1997	1.2022	1.2066	0.0032715	-0.001	-0.0007	-0.0004	0.00024495
5e+12	1.2005	1.2023	1.2034	0.0013351	1.1977	1.1996	1.2007	0.0014283	-0.0028	-0.002675	-0.0025	0.00012583
1e+13	1.2013	1.2029	1.2047	0.0016543	1.1959	1.1974	1.1995	0.0017166	-0.0059	-0.00555	-0.0052	0.00040415

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (mA))

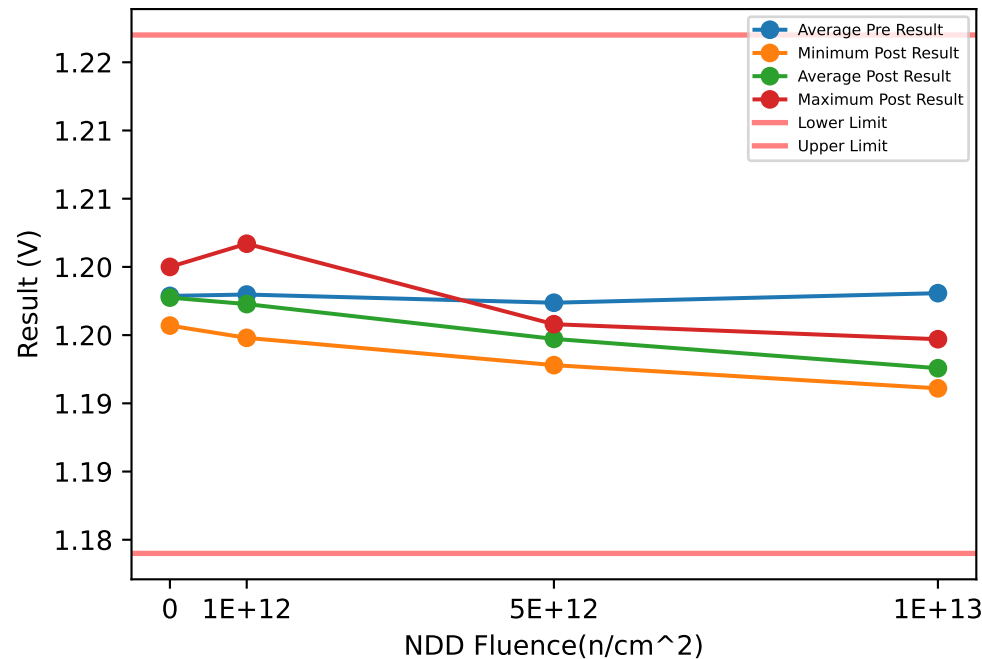
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.7235	2.7123	-0.0112
266	1e+12	NDD	2.6861	2.6713	-0.0148
267	1e+12	NDD	2.7619	2.7527	-0.0092
288	1e+12	NDD	2.7501	2.7414	-0.0087
348	5e+12	NDD	2.7229	2.6778	-0.0451
353	5e+12	NDD	2.657	2.6093	-0.0477
370	5e+12	NDD	2.6686	2.6275	-0.0411
377	5e+12	NDD	2.715	2.6696	-0.0454
389	1e+13	NDD	2.7516	2.6578	-0.0938
394	1e+13	NDD	2.7228	2.6397	-0.0831
395	1e+13	NDD	2.7384	2.6425	-0.0959
571	1e+13	NDD	2.7162	2.6172	-0.099
649	0	CORRELATION	2.7983	2.7932	-0.0051
662	0	CORRELATION	2.6278	2.624	-0.0038
690	0	CORRELATION	2.7221	2.719	-0.0031
708	0	CORRELATION	2.6879	2.6833	-0.0046

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	2.6278	2.709	2.7983	0.071145	2.624	2.7049	2.7932	0.070727	-0.0051	-0.00415	-0.0031	0.00088129
1e+12	2.6861	2.7304	2.7619	0.033618	2.6713	2.7194	2.7527	0.036318	-0.0148	-0.010975	-0.0087	0.0027693
5e+12	2.657	2.6909	2.7229	0.032921	2.6093	2.646	2.6778	0.032951	-0.0477	-0.044825	-0.0411	0.0027415
1e+13	2.7162	2.7323	2.7516	0.015908	2.6172	2.6393	2.6578	0.016744	-0.099	-0.09295	-0.0831	0.0069053

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

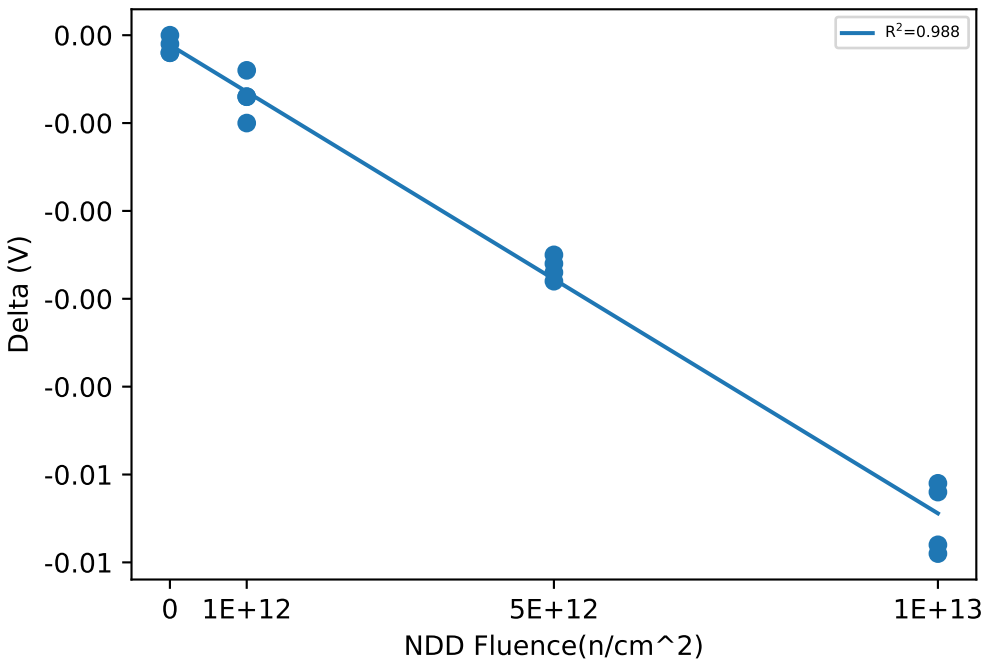
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2005	1.1998	-0.0007
266	1e+12	NDD	1.2008	1.1998	-0.001
267	1e+12	NDD	1.2074	1.2067	-0.0007
288	1e+12	NDD	1.2032	1.2028	-0.0004
348	5e+12	NDD	1.2035	1.2008	-0.0027
353	5e+12	NDD	1.2006	1.1978	-0.0028
370	5e+12	NDD	1.2033	1.2008	-0.0025
377	5e+12	NDD	1.2021	1.1995	-0.0026
389	1e+13	NDD	1.2041	1.1982	-0.0059
394	1e+13	NDD	1.2015	1.1963	-0.0052
395	1e+13	NDD	1.2019	1.1961	-0.0058
571	1e+13	NDD	1.2048	1.1997	-0.0051
649	0	CORRELATION	1.2052	1.205	-0.0002
662	0	CORRELATION	1.2021	1.2021	0
690	0	CORRELATION	1.2008	1.2007	-0.0001
708	0	CORRELATION	1.2034	1.2032	-0.0002

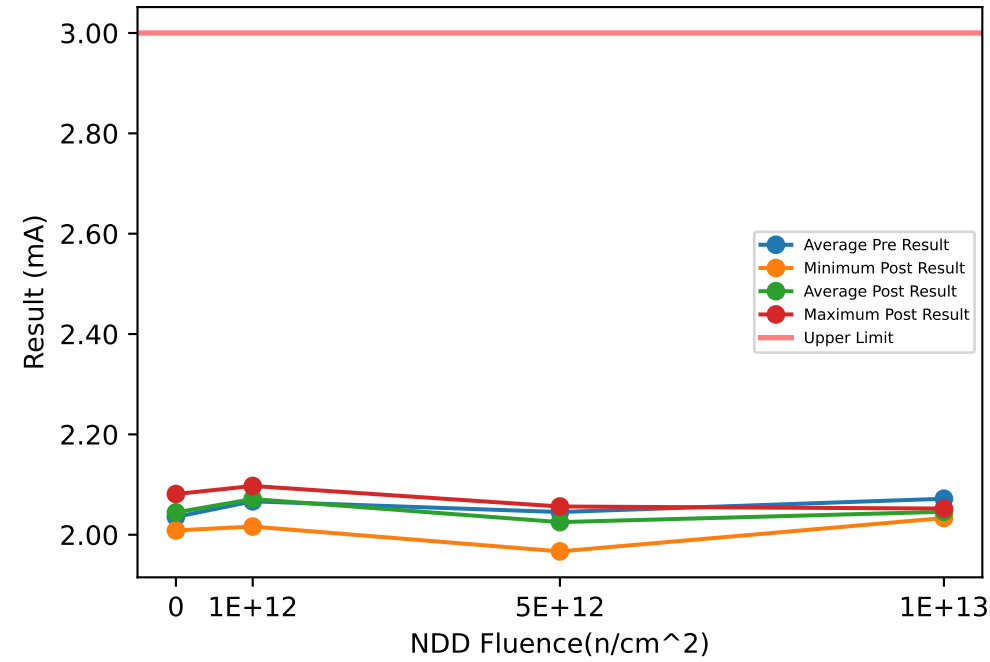
NDD vs Post - Pre Exposure Delta



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	1.2008	1.2029	1.2052	0.0018786	1.2007	1.2027	1.205	0.0018157	-0.0002	-0.000125	0	9.5743e-05
1e+12	1.2005	1.203	1.2074	0.0031879	1.1998	1.2023	1.2067	0.0032715	-0.001	-0.0007	-0.0004	0.00024495
5e+12	1.2006	1.2024	1.2035	0.0013351	1.1978	1.1997	1.2008	0.0014221	-0.0028	-0.00265	-0.0025	0.0001291
1e+13	1.2015	1.2031	1.2048	0.0016215	1.1961	1.1976	1.1997	0.0017037	-0.0059	-0.0055	-0.0051	0.00040825

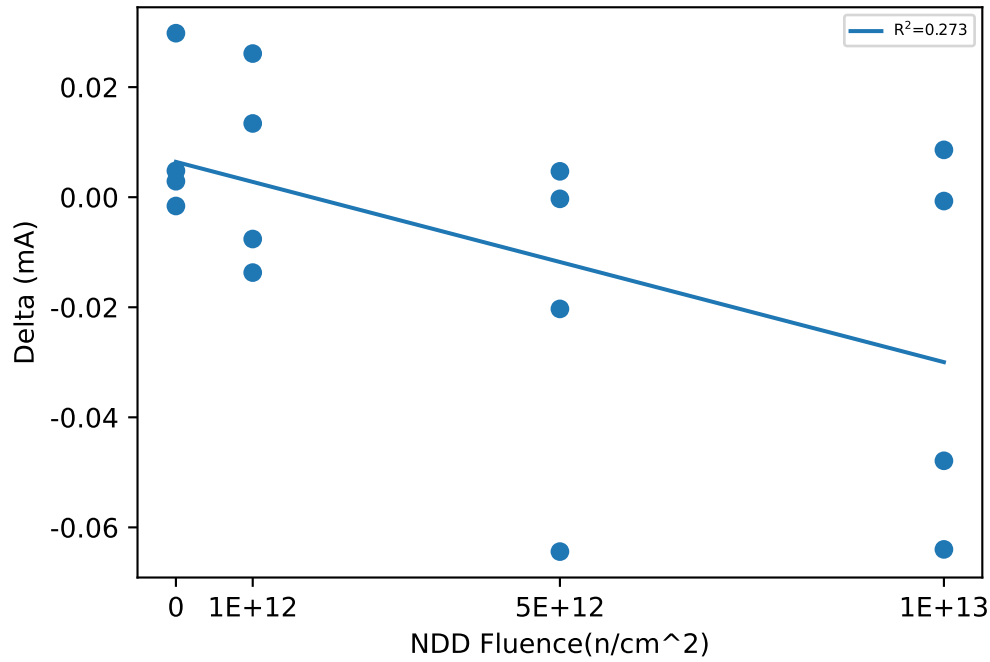
NDD vs Result Stats



Test Results (Upper Limit = 3.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.0965	2.0889	-0.0076
266	1e+12	NDD	2.03	2.0163	-0.0137
267	1e+12	NDD	2.0688	2.0822	0.0134
288	1e+12	NDD	2.0711	2.0972	0.0261
348	5e+12	NDD	2.0598	2.0395	-0.0203
353	5e+12	NDD	2.0312	1.9668	-0.0644
370	5e+12	NDD	2.0516	2.0563	0.0047
377	5e+12	NDD	2.0384	2.0381	-0.0003
389	1e+13	NDD	2.0967	2.0488	-0.0479
394	1e+13	NDD	2.0494	2.0487	-0.0007
395	1e+13	NDD	2.0973	2.0333	-0.064
571	1e+13	NDD	2.0436	2.0522	0.0086
649	0	CORRELATION	2.0782	2.0811	0.0029
662	0	CORRELATION	2.0102	2.0086	-0.0016
690	0	CORRELATION	2.0418	2.0716	0.0298
708	0	CORRELATION	2.0116	2.0164	0.0048

NDD vs Post - Pre Exposure Delta

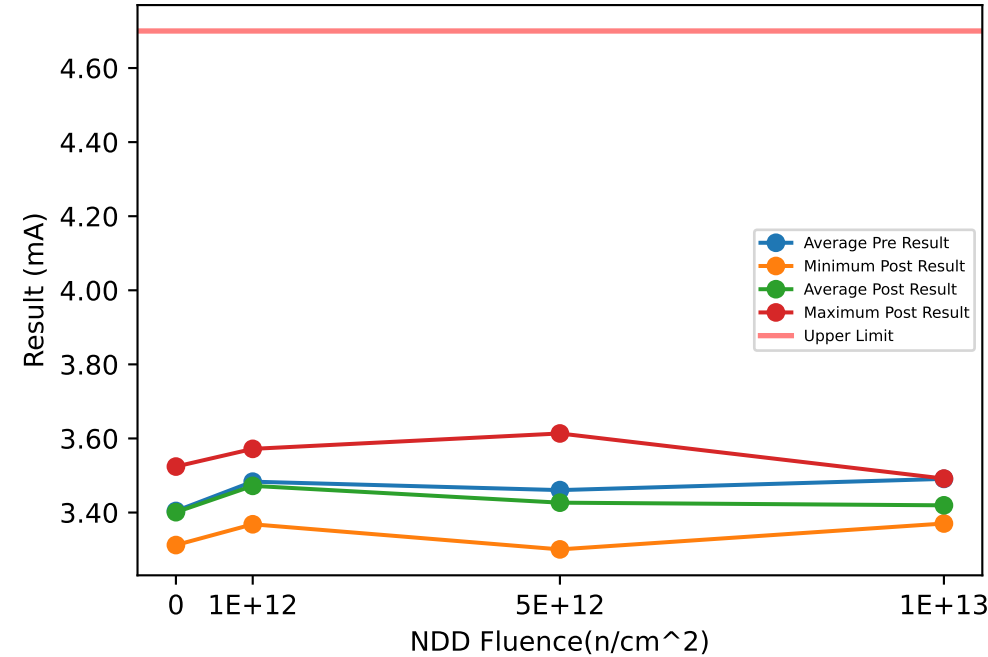


Test Statistics (mA)

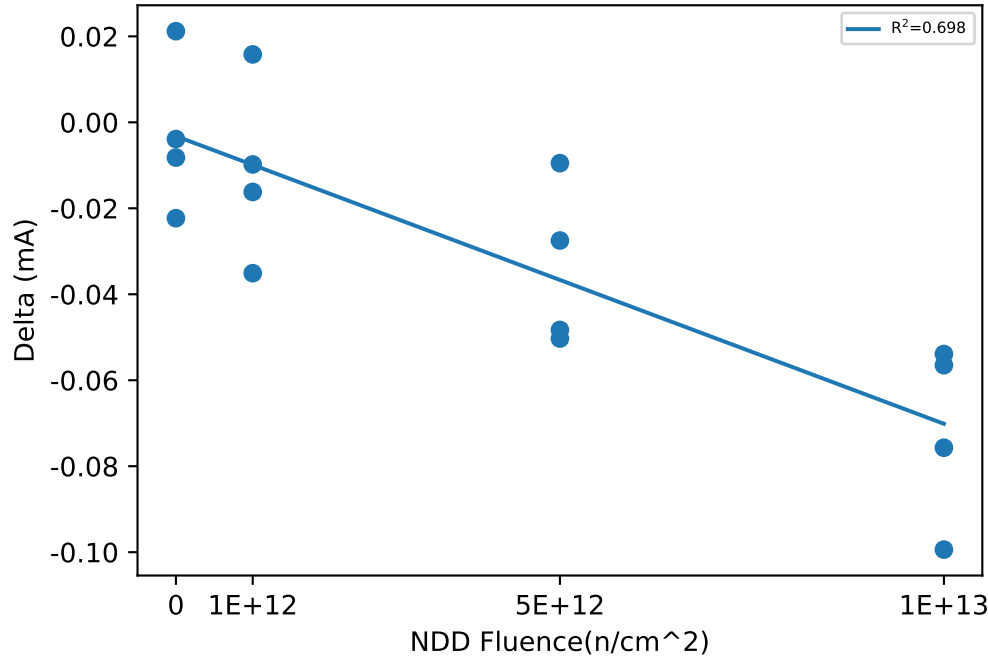
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.0102	2.0354	2.0782	0.032012	2.0086	2.0444	2.0811	0.037204	-0.0016	0.008975	0.0298	0.01414
1e+12	2.03	2.0666	2.0965	0.027439	2.0163	2.0712	2.0972	0.037078	-0.0137	0.00455	0.0261	0.01847
5e+12	2.0312	2.0453	2.0598	0.012863	1.9668	2.0252	2.0563	0.039786	-0.0644	-0.020075	0.0047	0.031462
1e+13	2.0436	2.0717	2.0973	0.029253	2.0333	2.0457	2.0522	0.0084579	-0.064	-0.026	0.0086	0.035406

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 4.7 (mA))

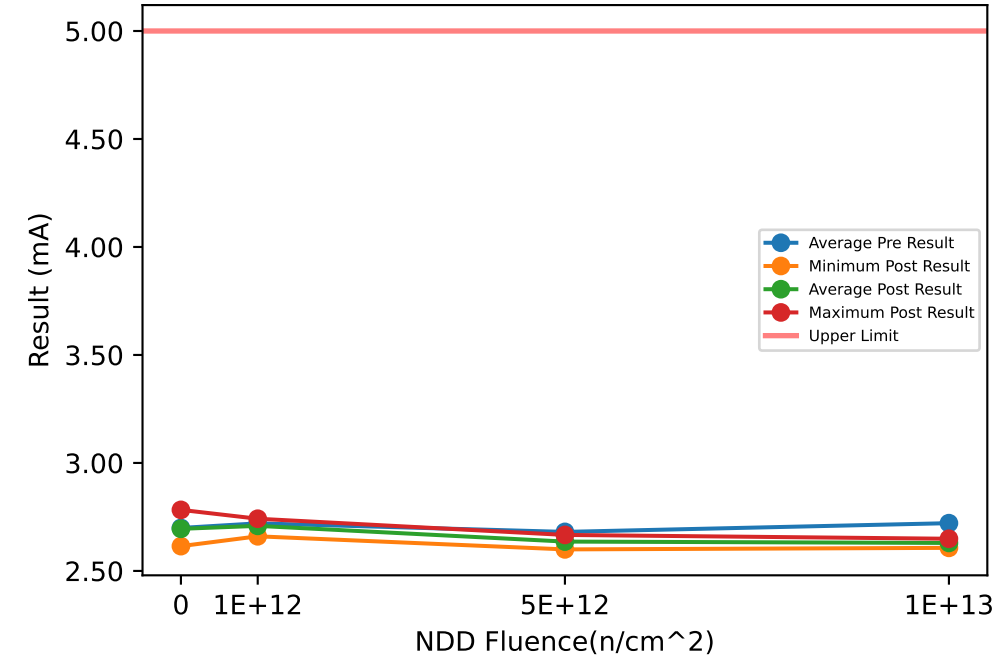
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.4861	3.4699	-0.0162
266	1e+12	NDD	3.3525	3.3683	0.0158
267	1e+12	NDD	3.4878	3.478	-0.0098
288	1e+12	NDD	3.607	3.5719	-0.0351
348	5e+12	NDD	3.4961	3.4686	-0.0275
353	5e+12	NDD	3.3335	3.324	-0.0095
370	5e+12	NDD	3.6618	3.6135	-0.0483
377	5e+12	NDD	3.3508	3.3005	-0.0503
389	1e+13	NDD	3.4891	3.4134	-0.0757
394	1e+13	NDD	3.459	3.4025	-0.0565
395	1e+13	NDD	3.5456	3.4917	-0.0539
571	1e+13	NDD	3.4698	3.3704	-0.0994
649	0	CORRELATION	3.4277	3.4489	0.0212
662	0	CORRELATION	3.3225	3.3186	-0.0039
690	0	CORRELATION	3.3345	3.3122	-0.0223
708	0	CORRELATION	3.5323	3.5241	-0.0082

Test Statistics (mA)

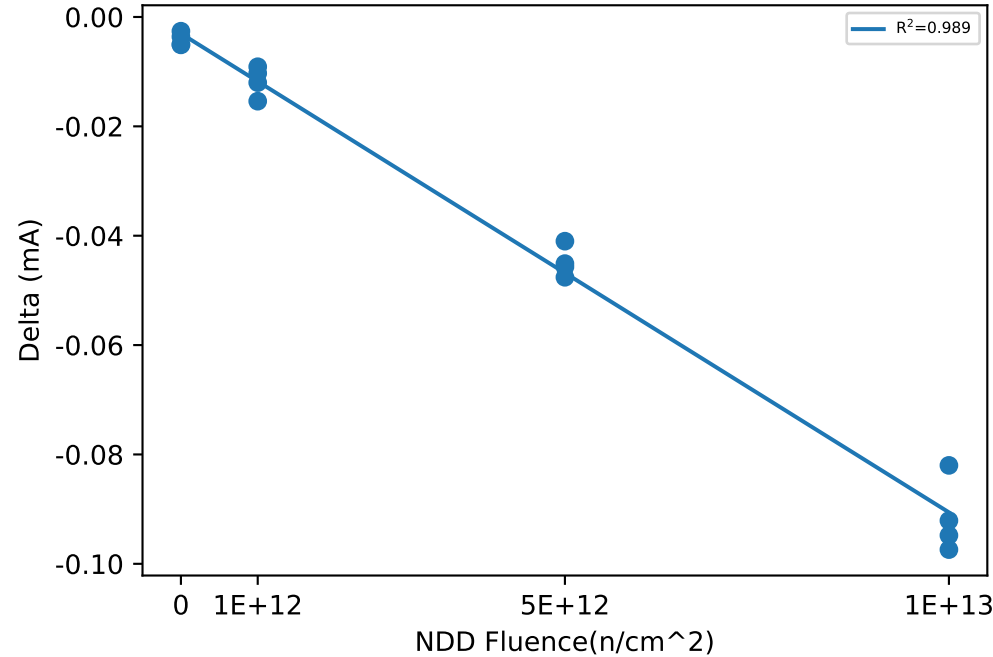
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.3225	3.4043	3.5323	0.097459	3.3122	3.4009	3.5241	0.10348	-0.0223	-0.0033	0.0212	0.018126
1e+12	3.3525	3.4834	3.607	0.10398	3.3683	3.472	3.5719	0.083215	-0.0351	-0.011325	0.0158	0.021033
5e+12	3.3335	3.4606	3.6618	0.1527	3.3005	3.4266	3.6135	0.14506	-0.0503	-0.0339	-0.0095	0.019258
1e+13	3.459	3.4909	3.5456	0.038549	3.3704	3.4195	3.4917	0.051478	-0.0994	-0.071375	-0.0539	0.021061

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (mA))

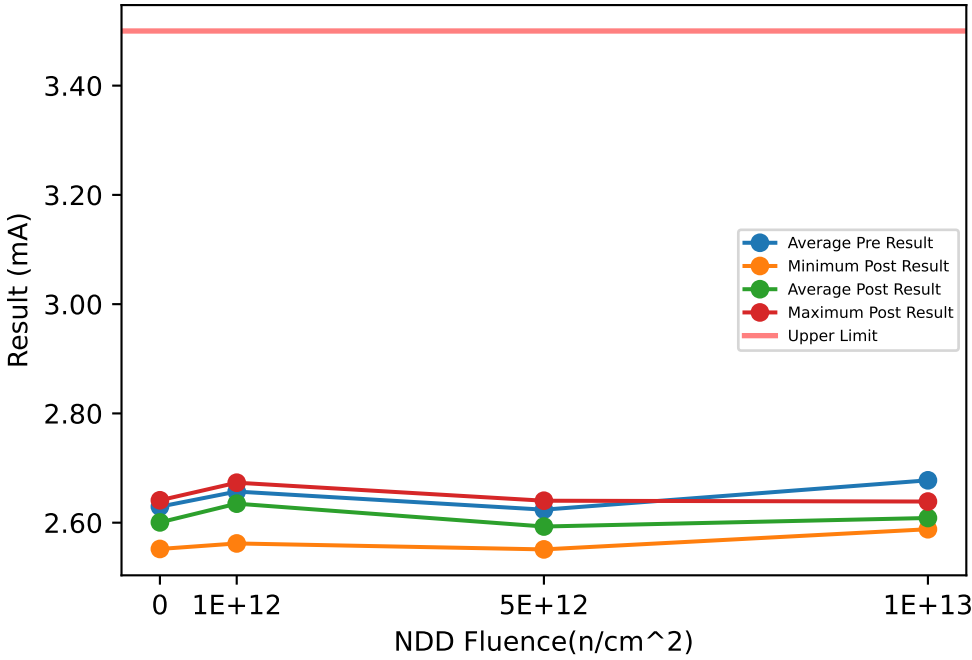
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.7139	2.7019	-0.012
266	1e+12	NDD	2.6757	2.6603	-0.0154
267	1e+12	NDD	2.752	2.7417	-0.0103
288	1e+12	NDD	2.7397	2.7306	-0.0091
348	5e+12	NDD	2.7118	2.6667	-0.0451
353	5e+12	NDD	2.6473	2.5997	-0.0476
370	5e+12	NDD	2.6586	2.6176	-0.041
377	5e+12	NDD	2.7053	2.6596	-0.0457
389	1e+13	NDD	2.7411	2.649	-0.0921
394	1e+13	NDD	2.7115	2.6295	-0.082
395	1e+13	NDD	2.7278	2.633	-0.0948
571	1e+13	NDD	2.7042	2.6068	-0.0974
649	0	CORRELATION	2.7877	2.7827	-0.005
662	0	CORRELATION	2.6184	2.6148	-0.0036
690	0	CORRELATION	2.7125	2.7099	-0.0026
708	0	CORRELATION	2.6776	2.6725	-0.0051

Test Statistics (mA)

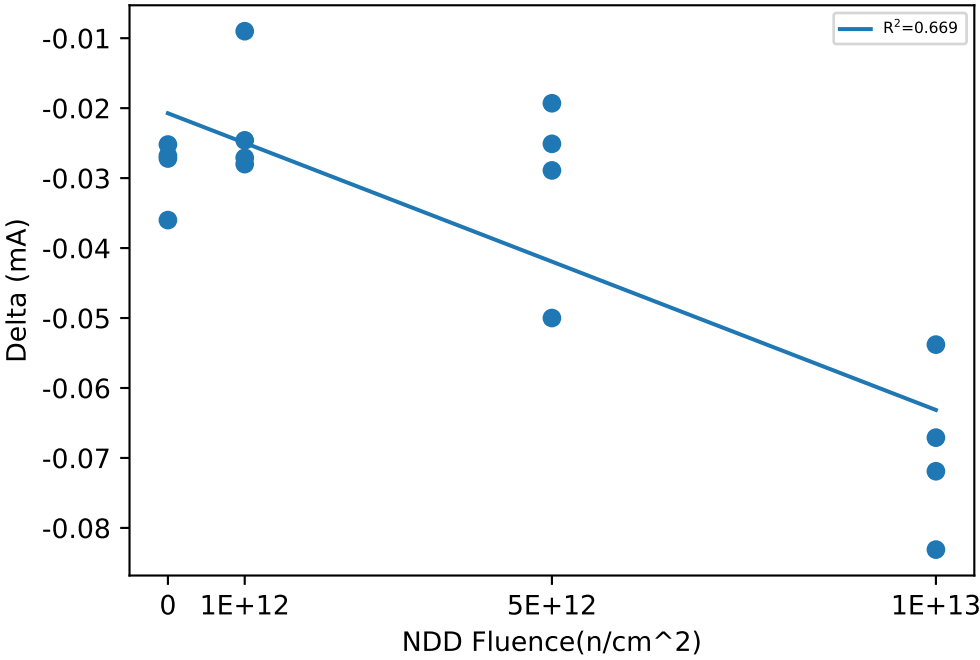
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.6184	2.699	2.7877	0.070721	2.6148	2.695	2.7827	0.07036	-0.0051	-0.004075	-0.0026	0.0011983
1e+12	2.6757	2.7203	2.752	0.033721	2.6603	2.7086	2.7417	0.03632	-0.0154	-0.0117	-0.0091	0.0027386
5e+12	2.6473	2.6807	2.7118	0.032539	2.5997	2.6359	2.6667	0.032433	-0.0476	-0.04485	-0.041	0.0027791
1e+13	2.7042	2.7211	2.7411	0.016559	2.6068	2.6296	2.649	0.017395	-0.0974	-0.091575	-0.082	0.0067401

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 3.5 (mA))

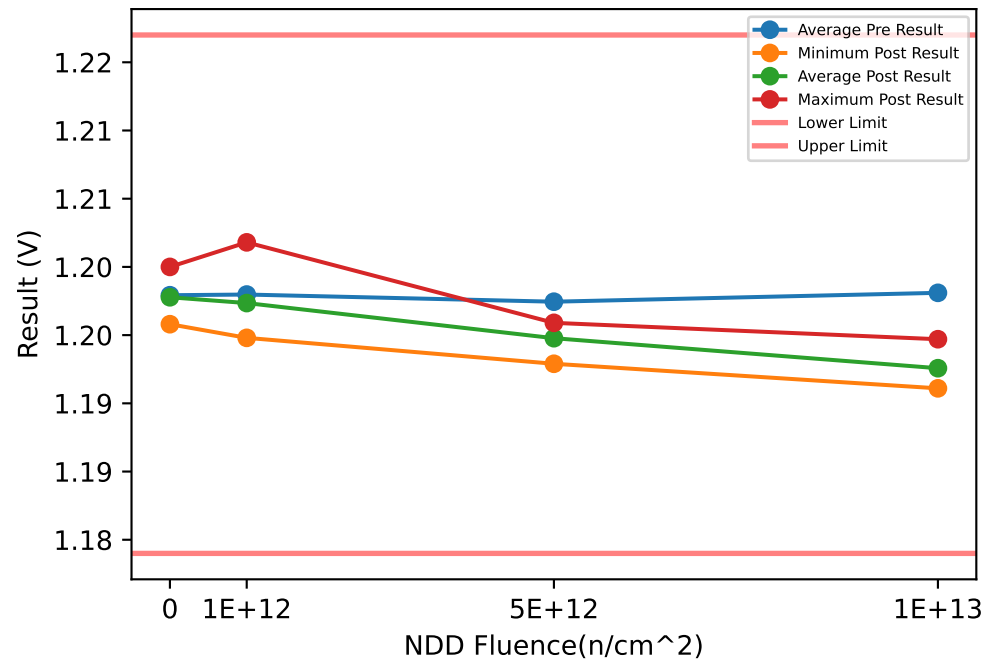
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.6713	2.6433	-0.028
266	1e+12	NDD	2.5866	2.562	-0.0246
267	1e+12	NDD	2.7003	2.6732	-0.0271
288	1e+12	NDD	2.6698	2.6608	-0.009
348	5e+12	NDD	2.6902	2.6402	-0.05
353	5e+12	NDD	2.5762	2.5511	-0.0251
370	5e+12	NDD	2.6577	2.6288	-0.0289
377	5e+12	NDD	2.5711	2.5518	-0.0193
389	1e+13	NDD	2.6773	2.6054	-0.0719
394	1e+13	NDD	2.6551	2.588	-0.0671
395	1e+13	NDD	2.7218	2.6387	-0.0831
571	1e+13	NDD	2.656	2.6022	-0.0538
649	0	CORRELATION	2.6409	2.6137	-0.0272
662	0	CORRELATION	2.5787	2.5519	-0.0268
690	0	CORRELATION	2.6207	2.5955	-0.0252
708	0	CORRELATION	2.677	2.641	-0.036

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	2.5787	2.6293	2.677	0.041005	2.5519	2.6005	2.641	0.037423	-0.036	-0.0288	-0.0252	0.0048772
1e+12	2.5866	2.657	2.7003	0.048988	2.562	2.6348	2.6732	0.050075	-0.028	-0.022175	-0.009	0.0089003
5e+12	2.5711	2.6238	2.6902	0.059445	2.5511	2.593	2.6402	0.048175	-0.05	-0.030825	-0.0193	0.013379
1e+13	2.6551	2.6776	2.7218	0.031233	2.588	2.6086	2.6387	0.02146	-0.0831	-0.068975	-0.0538	0.012136

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

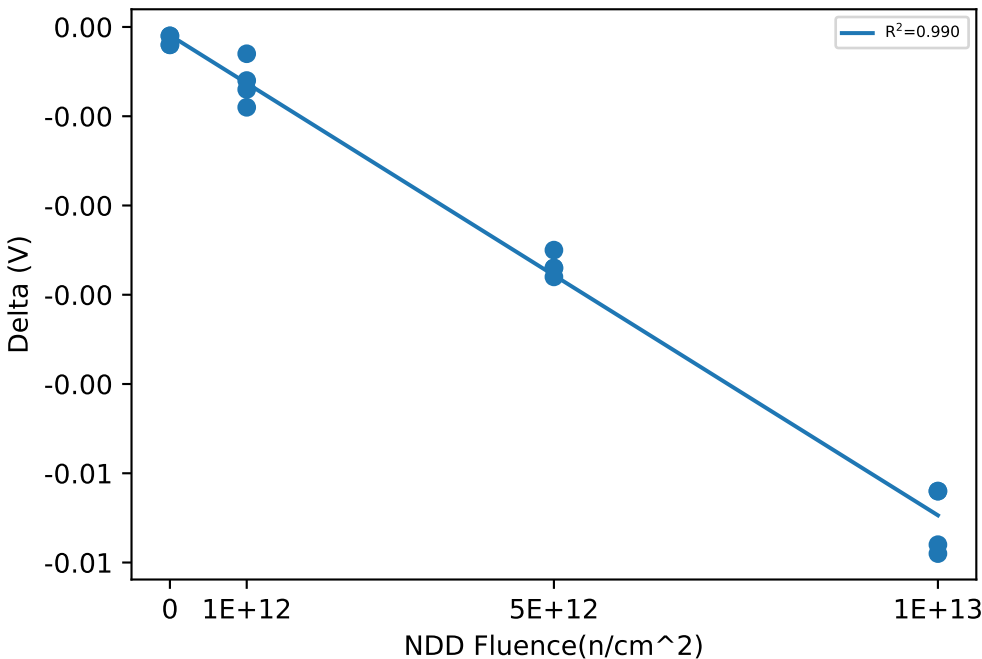
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2005	1.1998	-0.0007
266	1e+12	NDD	1.2008	1.1999	-0.0009
267	1e+12	NDD	1.2074	1.2068	-0.0006
288	1e+12	NDD	1.2032	1.2029	-0.0003
348	5e+12	NDD	1.2035	1.2008	-0.0027
353	5e+12	NDD	1.2007	1.1979	-0.0028
370	5e+12	NDD	1.2034	1.2009	-0.0025
377	5e+12	NDD	1.2022	1.1995	-0.0027
389	1e+13	NDD	1.2041	1.1982	-0.0059
394	1e+13	NDD	1.2015	1.1963	-0.0052
395	1e+13	NDD	1.2019	1.1961	-0.0058
571	1e+13	NDD	1.2049	1.1997	-0.0052
649	0	CORRELATION	1.2052	1.205	-0.0002
662	0	CORRELATION	1.2022	1.2021	-0.0001
690	0	CORRELATION	1.2009	1.2008	-0.0001
708	0	CORRELATION	1.2034	1.2032	-0.0002

NDD vs Post - Pre Exposure Delta

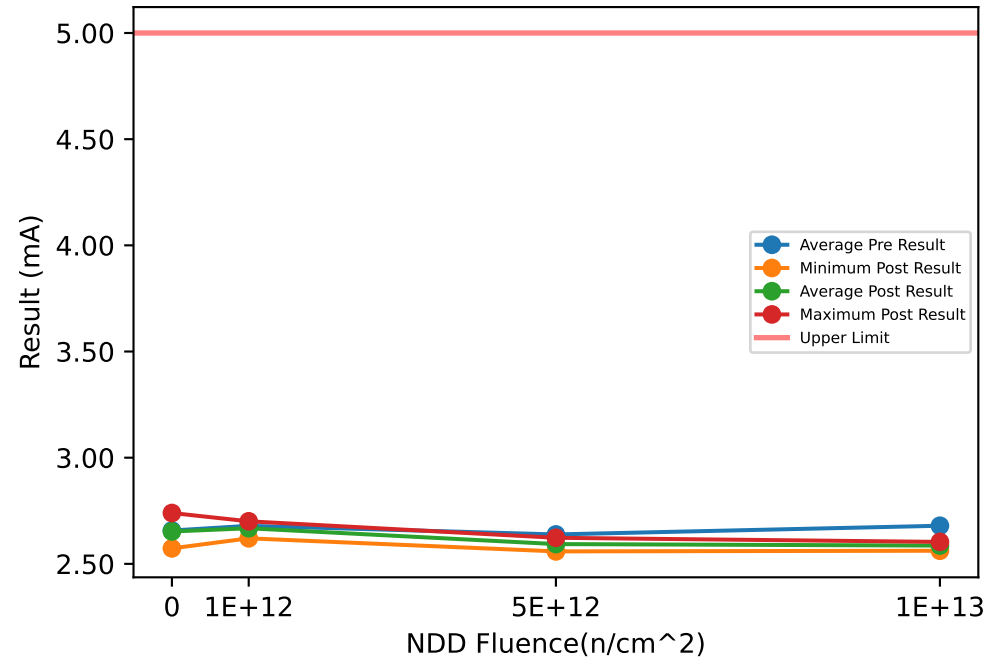


Test Statistics (V)

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	1.2009	1.2029	1.2052	0.0018283	1.2008	1.2028	1.205	0.0017783	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.2005	1.203	1.2074	0.0031879	1.1998	1.2024	1.2068	0.003297	-0.0009	-0.000625	-0.0003	0.00025
5e+12	1.2007	1.2025	1.2035	0.0013077	1.1979	1.1998	1.2009	0.0014033	-0.0028	-0.002675	-0.0025	0.00012583
1e+13	1.2015	1.2031	1.2049	0.0016573	1.1961	1.1976	1.1997	0.0017037	-0.0059	-0.005525	-0.0052	0.00037749

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

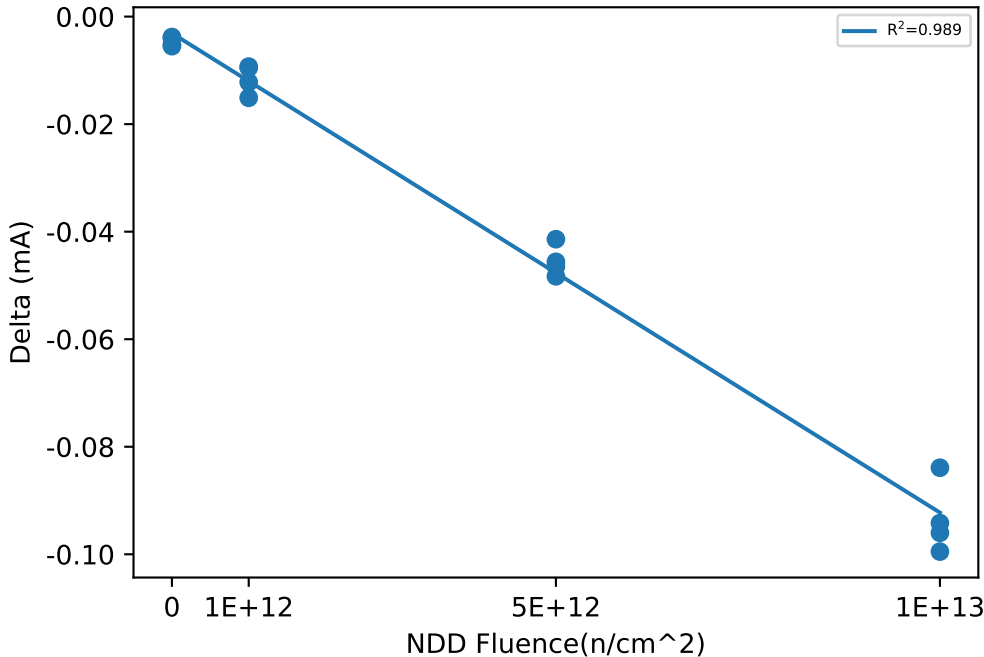
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.6727	2.6605	-0.0122
266	1e+12	NDD	2.6354	2.6203	-0.0151
267	1e+12	NDD	2.7099	2.7004	-0.0095
288	1e+12	NDD	2.6986	2.6893	-0.0093
348	5e+12	NDD	2.6684	2.6228	-0.0456
353	5e+12	NDD	2.607	2.5587	-0.0483
370	5e+12	NDD	2.6154	2.574	-0.0414
377	5e+12	NDD	2.6635	2.617	-0.0465
389	1e+13	NDD	2.6976	2.6034	-0.0942
394	1e+13	NDD	2.6734	2.5895	-0.0839
395	1e+13	NDD	2.6856	2.5896	-0.096
571	1e+13	NDD	2.6613	2.5618	-0.0995
649	0	CORRELATION	2.745	2.7395	-0.0055
662	0	CORRELATION	2.5767	2.5729	-0.0038
690	0	CORRELATION	2.6714	2.6674	-0.004
708	0	CORRELATION	2.6353	2.6301	-0.0052

NDD vs Post - Pre Exposure Delta

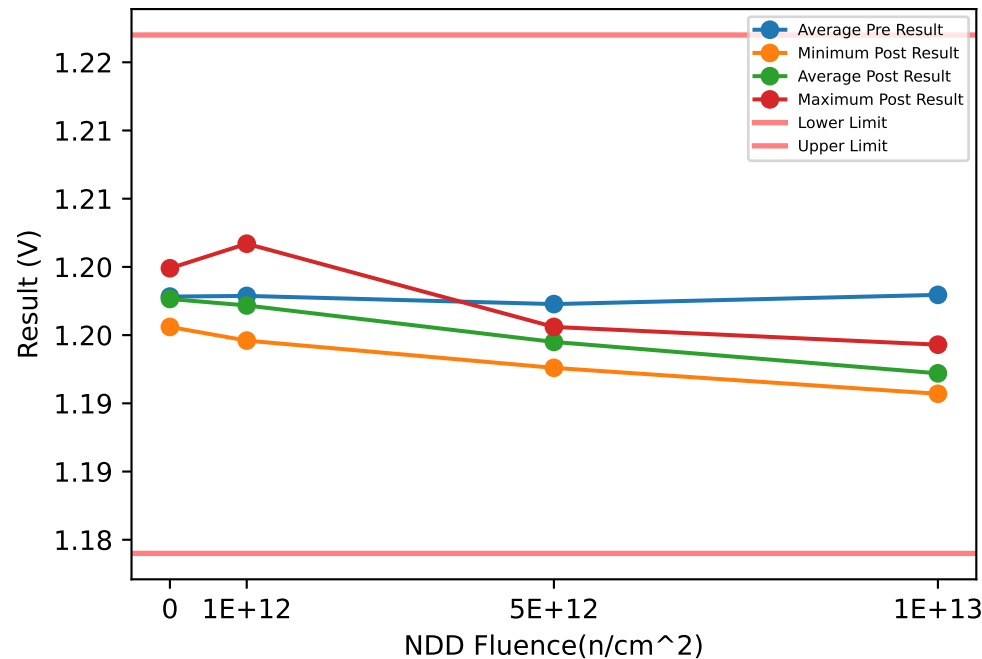


Test Statistics (mA)

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	2.5767	2.6571	2.745	0.070404	2.5729	2.6525	2.7395	0.069831	-0.0055	-0.004625	-0.0038	0.00085
1e+12	2.6354	2.6791	2.7099	0.033063	2.6203	2.6676	2.7004	0.035751	-0.0151	-0.011525	-0.0093	0.0027256
5e+12	2.607	2.6386	2.6684	0.031858	2.5587	2.5931	2.6228	0.031631	-0.0483	-0.04545	-0.0414	0.002924
1e+13	2.6613	2.6795	2.6976	0.015634	2.5618	2.5861	2.6034	0.017451	-0.0995	-0.0934	-0.0839	0.0067047

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

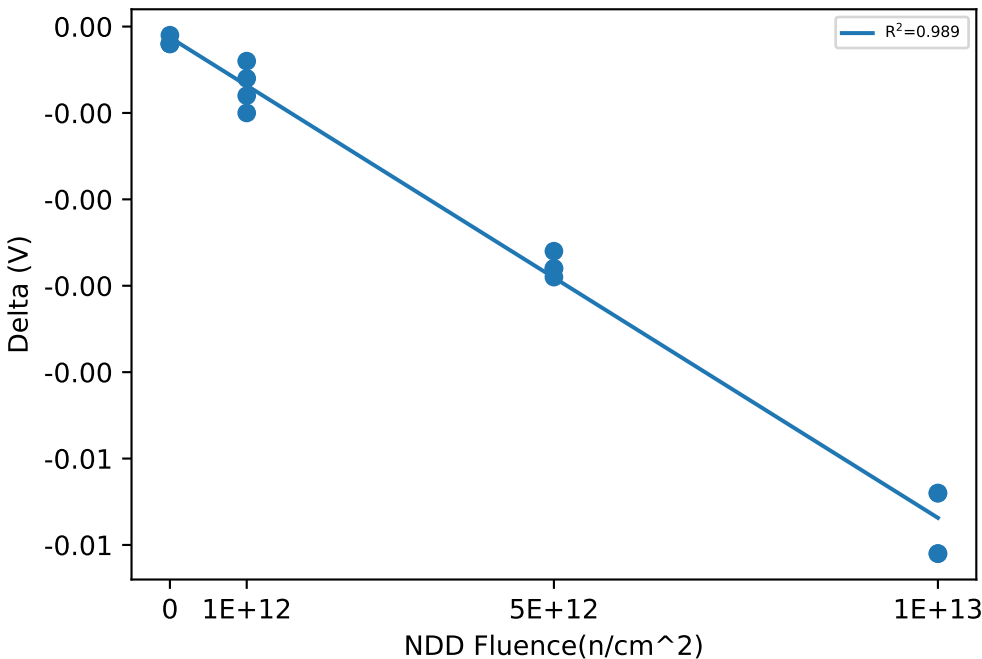
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2004	1.1996	-0.0008
266	1e+12	NDD	1.2007	1.1997	-0.001
267	1e+12	NDD	1.2073	1.2067	-0.0006
288	1e+12	NDD	1.2031	1.2027	-0.0004
348	5e+12	NDD	1.2034	1.2006	-0.0028
353	5e+12	NDD	1.2005	1.1976	-0.0029
370	5e+12	NDD	1.2032	1.2006	-0.0026
377	5e+12	NDD	1.202	1.1992	-0.0028
389	1e+13	NDD	1.204	1.1979	-0.0061
394	1e+13	NDD	1.2013	1.1959	-0.0054
395	1e+13	NDD	1.2018	1.1957	-0.0061
571	1e+13	NDD	1.2047	1.1993	-0.0054
649	0	CORRELATION	1.2051	1.2049	-0.0002
662	0	CORRELATION	1.2021	1.202	-0.0001
690	0	CORRELATION	1.2008	1.2006	-0.0002
708	0	CORRELATION	1.2033	1.2031	-0.0002

NDD vs Post - Pre Exposure Delta

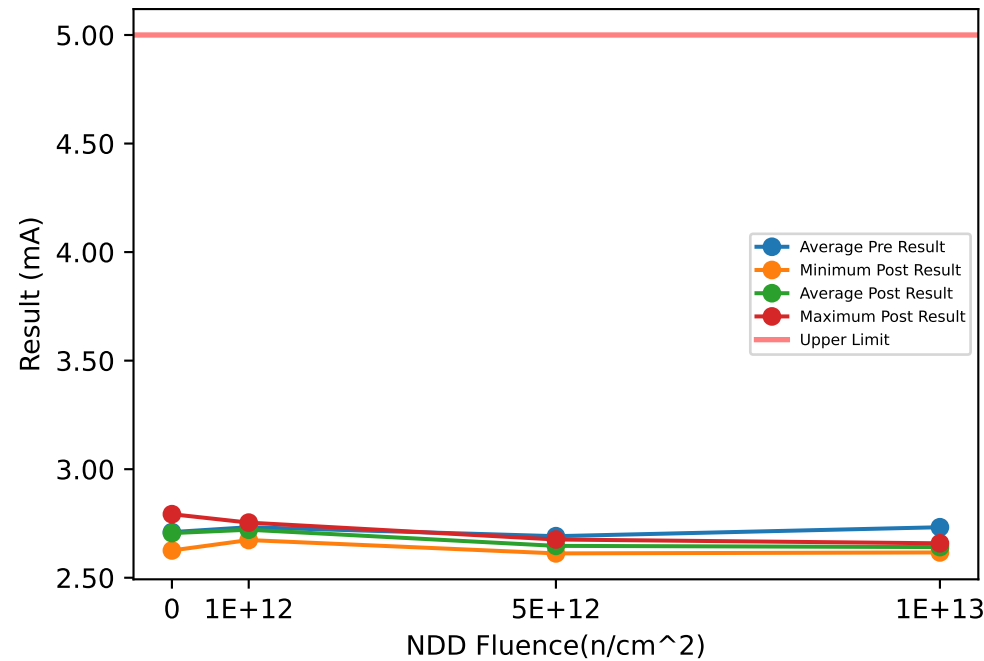


Test Statistics (V)

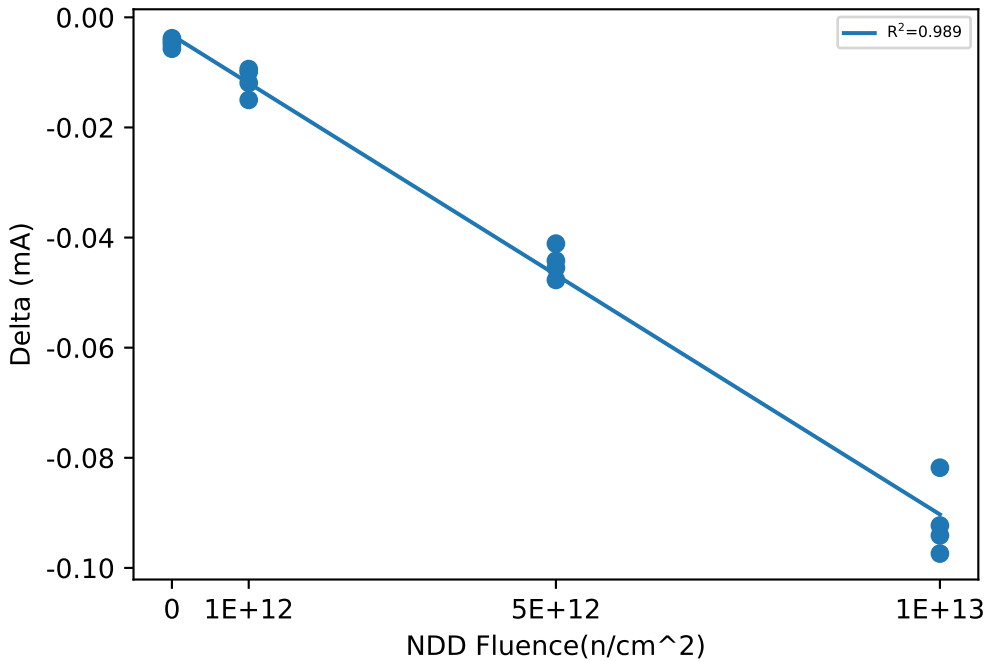
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2008	1.2028	1.2051	0.0018283	1.2006	1.2026	1.2049	0.0018157	-0.0002	-0.000175	-0.0001	5e-05
1e+12	1.2004	1.2029	1.2073	0.0031879	1.1996	1.2022	1.2067	0.003342	-0.001	-0.0007	-0.0004	0.0002582
5e+12	1.2005	1.2023	1.2034	0.0013351	1.1976	1.1995	1.2006	0.0014283	-0.0029	-0.002775	-0.0026	0.00012583
1e+13	1.2013	1.2029	1.2047	0.0016543	1.1957	1.1972	1.1993	0.0017166	-0.0061	-0.00575	-0.0054	0.00040415

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (mA))

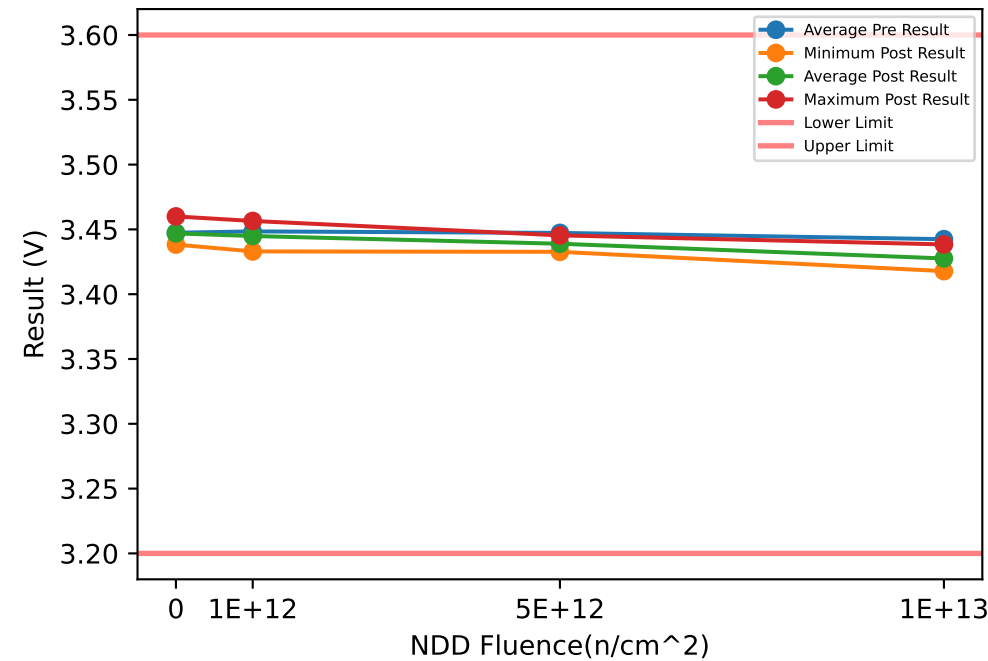
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	2.7263	2.7144	-0.0119
266	1e+12	NDD	2.6886	2.6736	-0.015
267	1e+12	NDD	2.7638	2.7539	-0.0099
288	1e+12	NDD	2.752	2.7426	-0.0094
348	5e+12	NDD	2.7203	2.6761	-0.0442
353	5e+12	NDD	2.6598	2.6121	-0.0477
370	5e+12	NDD	2.6689	2.6278	-0.0411
377	5e+12	NDD	2.7166	2.6711	-0.0455
389	1e+13	NDD	2.7509	2.6586	-0.0923
394	1e+13	NDD	2.7267	2.6449	-0.0818
395	1e+13	NDD	2.739	2.6449	-0.0941
571	1e+13	NDD	2.7139	2.6165	-0.0974
649	0	CORRELATION	2.7984	2.7927	-0.0057
662	0	CORRELATION	2.6294	2.6256	-0.0038
690	0	CORRELATION	2.725	2.7207	-0.0043
708	0	CORRELATION	2.6879	2.683	-0.0049

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	2.6294	2.7102	2.7984	0.070768	2.6256	2.7055	2.7927	0.07006	-0.0057	-0.004675	-0.0038	0.00081803
1e+12	2.6886	2.7327	2.7638	0.033294	2.6736	2.7211	2.7539	0.035773	-0.015	-0.01155	-0.0094	0.002541
5e+12	2.6598	2.6914	2.7203	0.031491	2.6121	2.6468	2.6761	0.031697	-0.0477	-0.044625	-0.0411	0.0027585
1e+13	2.7139	2.7326	2.7509	0.01592	2.6165	2.6412	2.6586	0.017703	-0.0974	-0.0914	-0.0818	0.0067394

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

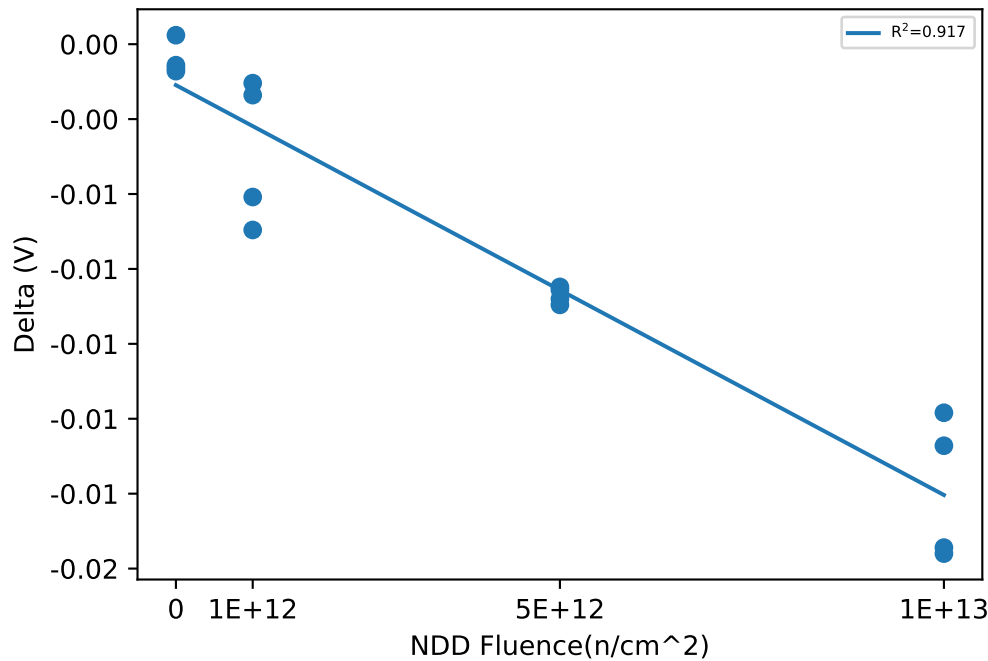
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.4502	3.4451	-0.0051
266	1e+12	NDD	3.4578	3.4565	-0.0013
267	1e+12	NDD	3.4392	3.433	-0.0062
288	1e+12	NDD	3.4466	3.4449	-0.0017
348	5e+12	NDD	3.4541	3.4454	-0.0087
353	5e+12	NDD	3.4509	3.4428	-0.0081
370	5e+12	NDD	3.4412	3.4327	-0.0085
377	5e+12	NDD	3.443	3.4348	-0.0082
389	1e+13	NDD	3.4346	3.4178	-0.0168
394	1e+13	NDD	3.4396	3.4273	-0.0123
395	1e+13	NDD	3.4438	3.4268	-0.017
571	1e+13	NDD	3.4518	3.4384	-0.0134
649	0	CORRELATION	3.438	3.4383	0.0003
662	0	CORRELATION	3.4607	3.46	-0.0007
690	0	CORRELATION	3.4411	3.4403	-0.0008
708	0	CORRELATION	3.4499	3.449	-0.0009

NDD vs Post - Pre Exposure Delta

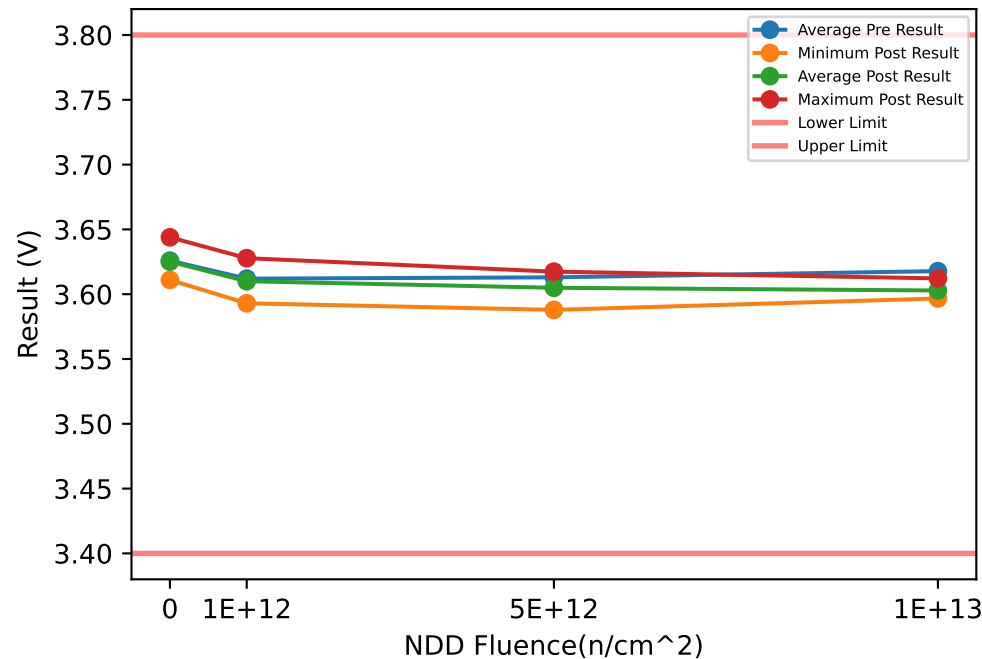


Test Statistics (V)

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	3.438	3.4474	3.4607	0.010185	3.4383	3.4469	3.46	0.0098917	-0.0009	-0.000525	0.0003	0.00055603
1e+12	3.4392	3.4485	3.4578	0.0077346	3.433	3.4449	3.4565	0.0095953	-0.0062	-0.003575	-0.0013	0.0024432
5e+12	3.4412	3.4473	3.4541	0.0061887	3.4327	3.4389	3.4454	0.0061294	-0.0087	-0.008375	-0.0081	0.00027538
1e+13	3.4346	3.4425	3.4518	0.0072799	3.4178	3.4276	3.4384	0.0084342	-0.017	-0.014875	-0.0123	0.0023824

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

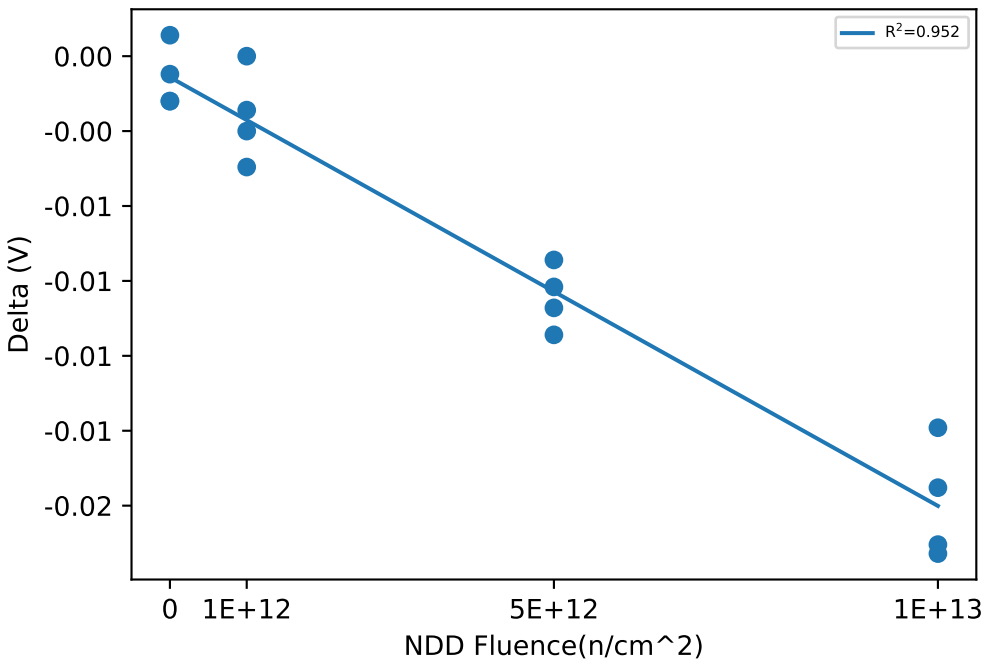
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.5955	3.593	-0.0025
266	1e+12	NDD	3.6158	3.6121	-0.0037
267	1e+12	NDD	3.6089	3.6071	-0.0018
288	1e+12	NDD	3.6278	3.6278	0
348	5e+12	NDD	3.6161	3.6077	-0.0084
353	5e+12	NDD	3.6136	3.6068	-0.0068
370	5e+12	NDD	3.6251	3.6174	-0.0077
377	5e+12	NDD	3.5972	3.5879	-0.0093
389	1e+13	NDD	3.613	3.5967	-0.0163
394	1e+13	NDD	3.6161	3.6037	-0.0124
395	1e+13	NDD	3.6155	3.5989	-0.0166
571	1e+13	NDD	3.6266	3.6122	-0.0144
649	0	CORRELATION	3.6317	3.6302	-0.0015
662	0	CORRELATION	3.617	3.6155	-0.0015
690	0	CORRELATION	3.6103	3.611	0.0007
708	0	CORRELATION	3.6445	3.6439	-0.0006

NDD vs Post - Pre Exposure Delta

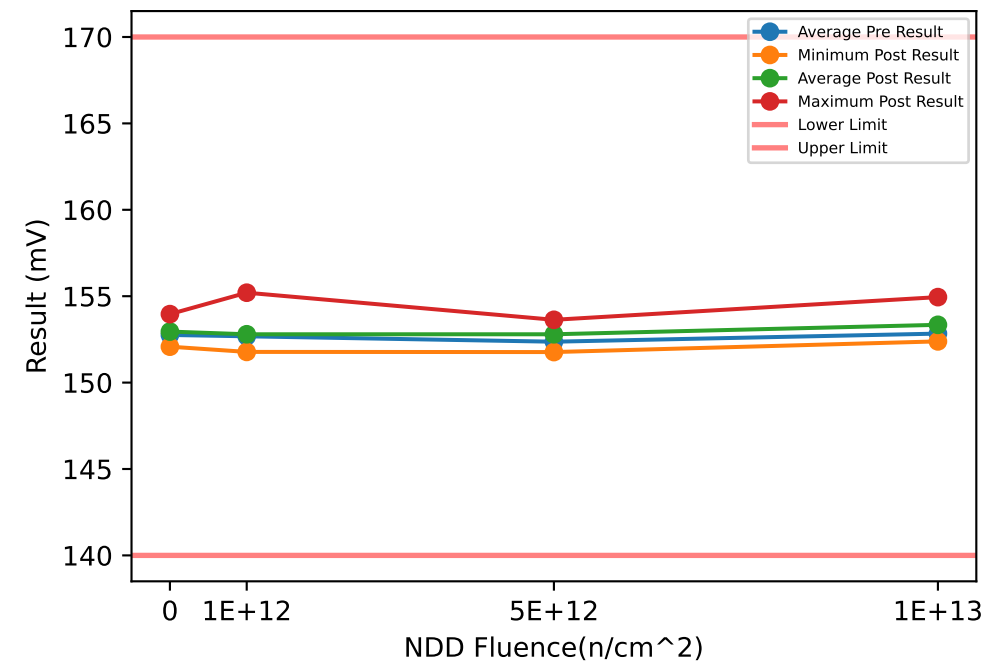


Test Statistics (V)

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	3.6103	3.6259	3.6445	0.015299	3.611	3.6252	3.6439	0.014949	-0.0015	-0.000725	0.0007	0.0010404
1e+12	3.5955	3.612	3.6278	0.01349	3.593	3.61	3.6278	0.01436	-0.0037	-0.002	0	0.001547
5e+12	3.5972	3.613	3.6251	0.011634	3.5879	3.6049	3.6174	0.012338	-0.0093	-0.00805	-0.0068	0.0010599
1e+13	3.613	3.6178	3.6266	0.0060183	3.5967	3.6029	3.6122	0.0068694	-0.0166	-0.014925	-0.0124	0.0019449

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

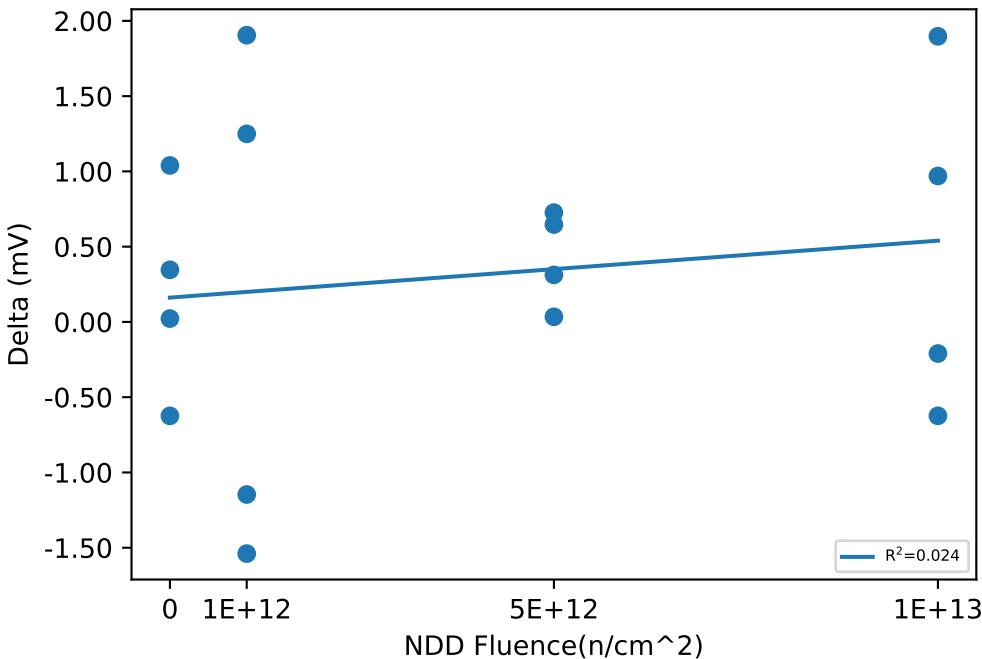
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	152.92	151.78	-1.1465
266	1e+12	NDD	153.36	151.82	-1.539
267	1e+12	NDD	151.14	152.38	1.2494
288	1e+12	NDD	153.3	155.2	1.9048
348	5e+12	NDD	151.99	152.71	0.7262
353	5e+12	NDD	152.42	153.07	0.6473
370	5e+12	NDD	153.32	153.63	0.3125
377	5e+12	NDD	151.73	151.77	0.0341
389	1e+13	NDD	152.92	152.71	-0.2098
394	1e+13	NDD	153.05	154.95	1.8974
395	1e+13	NDD	153.01	152.39	-0.6237
571	1e+13	NDD	152.36	153.33	0.9696
649	0	CORRELATION	153.05	153.07	0.0224
662	0	CORRELATION	153.32	152.7	-0.624
690	0	CORRELATION	151.73	152.08	0.3462
708	0	CORRELATION	152.92	153.96	1.0395

NDD vs Post - Pre Exposure Delta

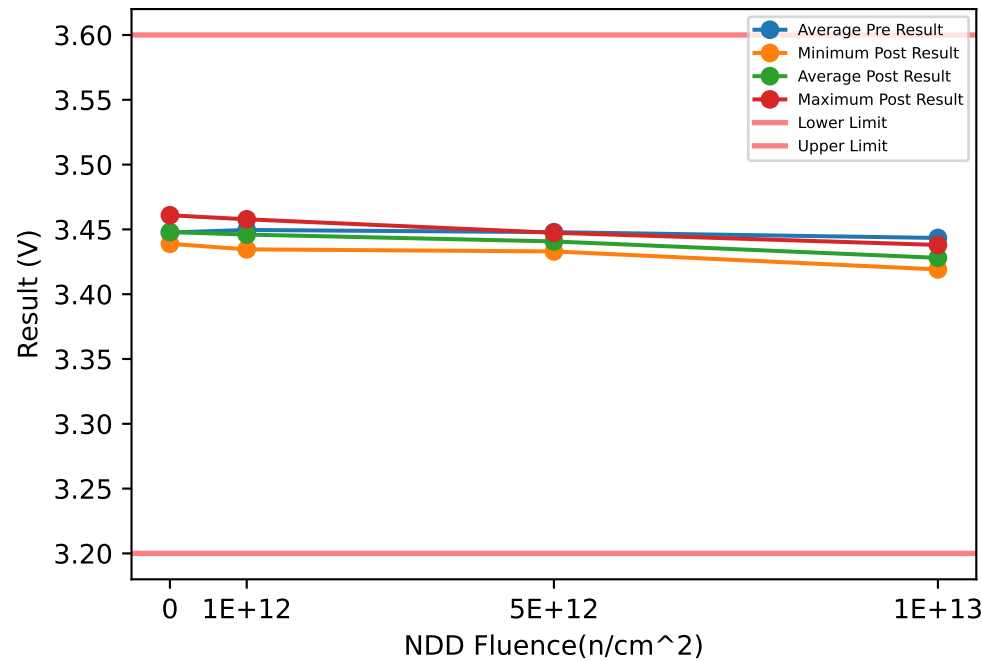


Test Statistics (mV)

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	151.73	152.76	153.32	0.70245	152.08	152.95	153.96	0.78785	-0.624	0.19603	1.0395	0.692
1e+12	151.14	152.68	153.36	1.0473	151.78	152.8	155.2	1.6275	-1.539	0.11718	1.9048	1.7144
5e+12	151.73	152.37	153.32	0.6978	151.77	152.8	153.63	0.78396	0.0341	0.43002	0.7262	0.31911
1e+13	152.36	152.83	153.05	0.32175	152.39	153.34	154.95	1.1382	-0.6237	0.50837	1.8974	1.1459

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

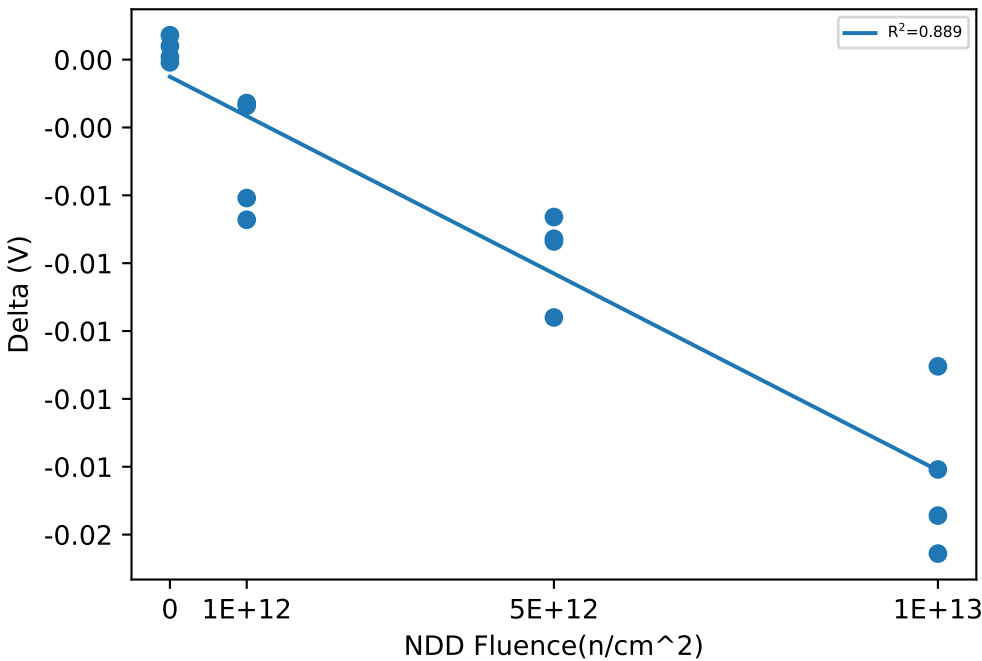
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.4512	3.4461	-0.0051
266	1e+12	NDD	3.4594	3.4578	-0.0016
267	1e+12	NDD	3.4405	3.4346	-0.0059
288	1e+12	NDD	3.4472	3.4455	-0.0017
348	5e+12	NDD	3.4541	3.4474	-0.0067
353	5e+12	NDD	3.4506	3.4448	-0.0058
370	5e+12	NDD	3.4425	3.433	-0.0095
377	5e+12	NDD	3.4443	3.4377	-0.0066
389	1e+13	NDD	3.4359	3.4191	-0.0168
394	1e+13	NDD	3.4402	3.4289	-0.0113
395	1e+13	NDD	3.4444	3.4262	-0.0182
571	1e+13	NDD	3.4531	3.438	-0.0151
649	0	CORRELATION	3.438	3.4389	0.0009
662	0	CORRELATION	3.461	3.4609	-0.0001
690	0	CORRELATION	3.4427	3.4432	0.0005
708	0	CORRELATION	3.4486	3.4487	0.0001

NDD vs Post - Pre Exposure Delta

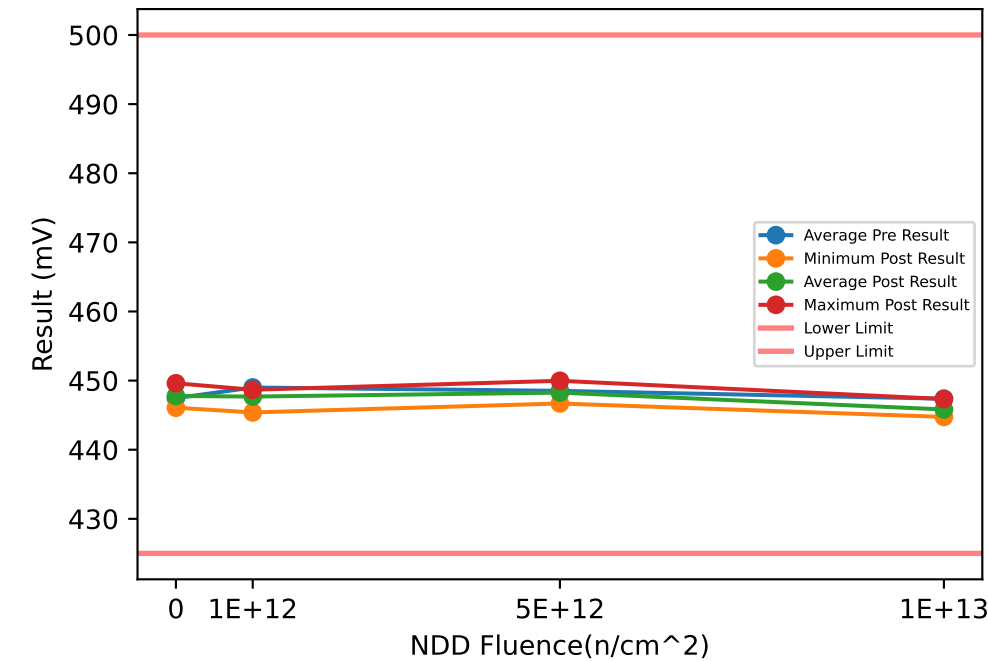


Test Statistics (V)

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	3.438	3.4476	3.461	0.0099453	3.4389	3.4479	3.4609	0.0095346	-0.0001	0.00035	0.0009	0.00044347
1e+12	3.4405	3.4496	3.4594	0.0078987	3.4346	3.446	3.4578	0.0094773	-0.0059	-0.003575	-0.0016	0.002247
5e+12	3.4425	3.4479	3.4541	0.0054113	3.433	3.4407	3.4474	0.0065825	-0.0095	-0.00715	-0.0058	0.0016176
1e+13	3.4359	3.4434	3.4531	0.0073389	3.4191	3.428	3.438	0.0078156	-0.0182	-0.01535	-0.0113	0.0029827

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

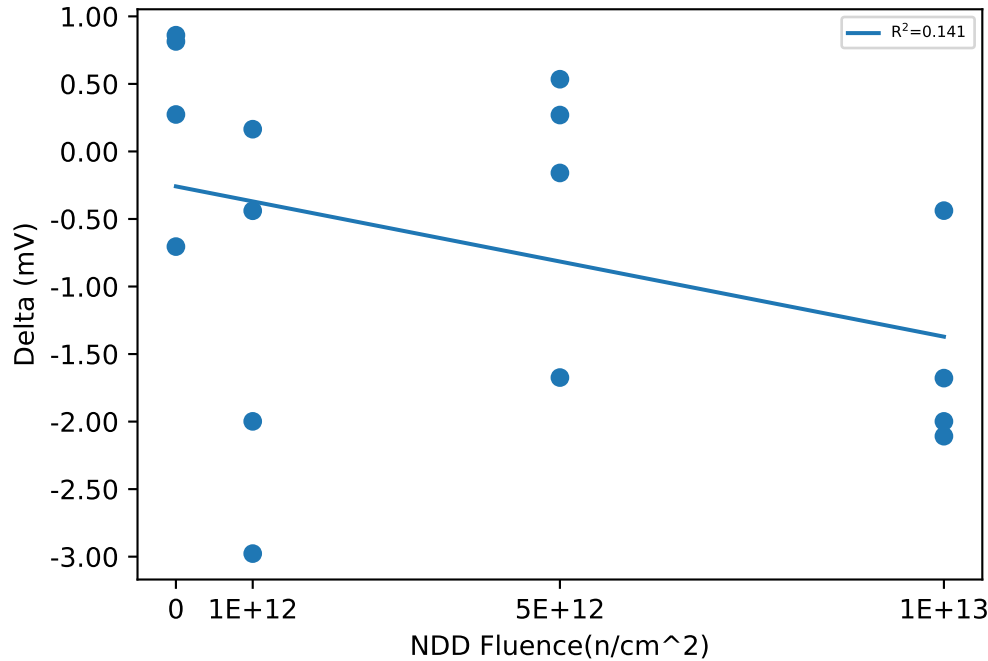
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	451.03	448.05	-2.9773
266	1e+12	NDD	449.11	448.68	-0.4391
267	1e+12	NDD	447.39	445.4	-1.9983
288	1e+12	NDD	448.47	448.64	0.1647
348	5e+12	NDD	449.41	449.68	0.2695
353	5e+12	NDD	449.44	449.97	0.5347
370	5e+12	NDD	448.37	446.69	-1.674
377	5e+12	NDD	446.85	446.69	-0.1593
389	1e+13	NDD	446.81	445.13	-1.6782
394	1e+13	NDD	446.52	446.08	-0.4382
395	1e+13	NDD	446.74	444.75	-1.9985
571	1e+13	NDD	449.45	447.34	-2.1082
649	0	CORRELATION	445.22	446.08	0.8606
662	0	CORRELATION	449.34	449.62	0.2736
690	0	CORRELATION	446.52	447.34	0.8144
708	0	CORRELATION	448.76	448.05	-0.7045

NDD vs Post - Pre Exposure Delta

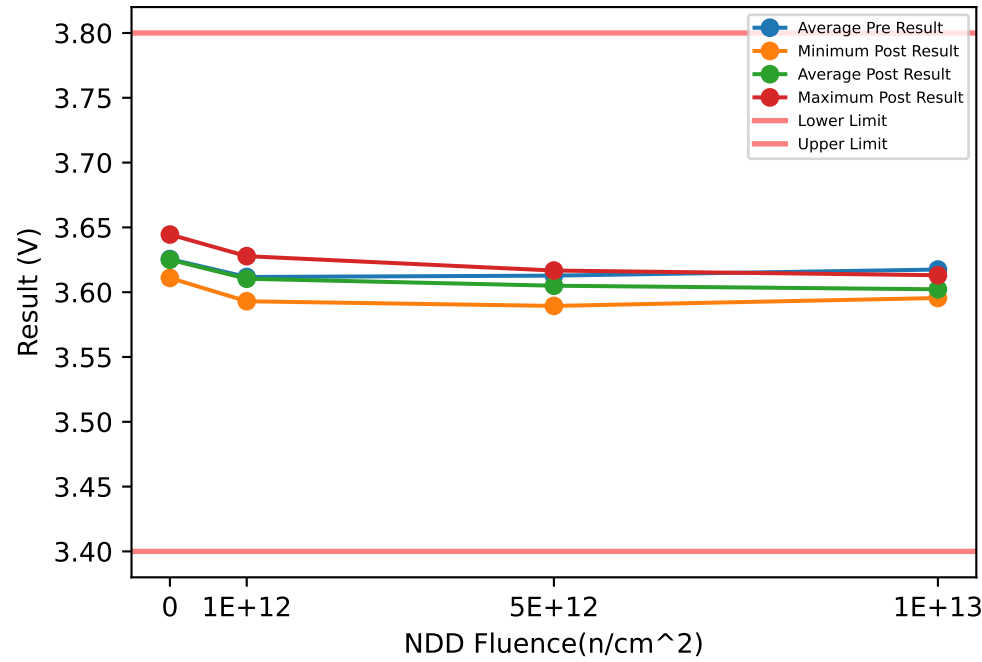


Test Statistics (mV)

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	445.22	447.46	449.34	1.9263	446.08	447.77	449.62	1.4759	-0.7045	0.31103	0.8606	0.72758
1e+12	447.39	449	451.03	1.5272	445.4	447.69	448.68	1.556	-2.9773	-1.3125	0.1647	1.4361
5e+12	446.85	448.52	449.44	1.2182	446.69	448.26	449.97	1.8136	-1.674	-0.25728	0.5347	0.98682
1e+13	446.52	447.38	449.45	1.3835	444.75	445.82	447.34	1.1543	-2.1082	-1.5558	-0.4382	0.76706

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

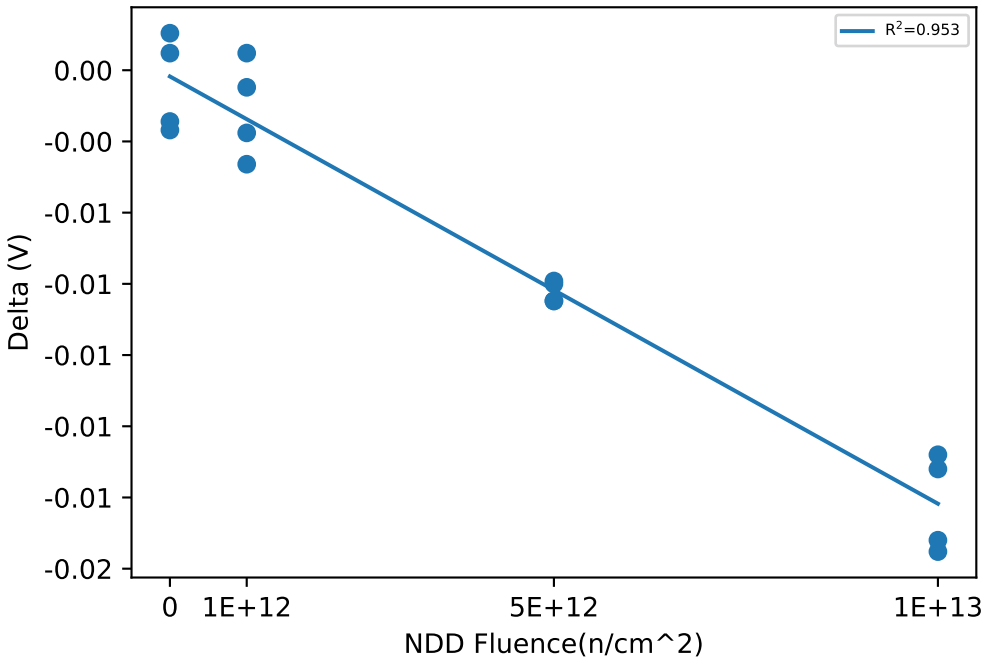
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.5952	3.593	-0.0022
266	1e+12	NDD	3.6148	3.6115	-0.0033
267	1e+12	NDD	3.6098	3.6092	-0.0006
288	1e+12	NDD	3.6272	3.6278	0.0006
348	5e+12	NDD	3.6158	3.6077	-0.0081
353	5e+12	NDD	3.6136	3.6062	-0.0074
370	5e+12	NDD	3.6248	3.6167	-0.0081
377	5e+12	NDD	3.5969	3.5894	-0.0075
389	1e+13	NDD	3.6124	3.5955	-0.0169
394	1e+13	NDD	3.6161	3.6021	-0.014
395	1e+13	NDD	3.6148	3.5983	-0.0165
571	1e+13	NDD	3.6266	3.6131	-0.0135
649	0	CORRELATION	3.6314	3.6296	-0.0018
662	0	CORRELATION	3.6173	3.6152	-0.0021
690	0	CORRELATION	3.6097	3.611	0.0013
708	0	CORRELATION	3.6439	3.6445	0.0006

NDD vs Post - Pre Exposure Delta

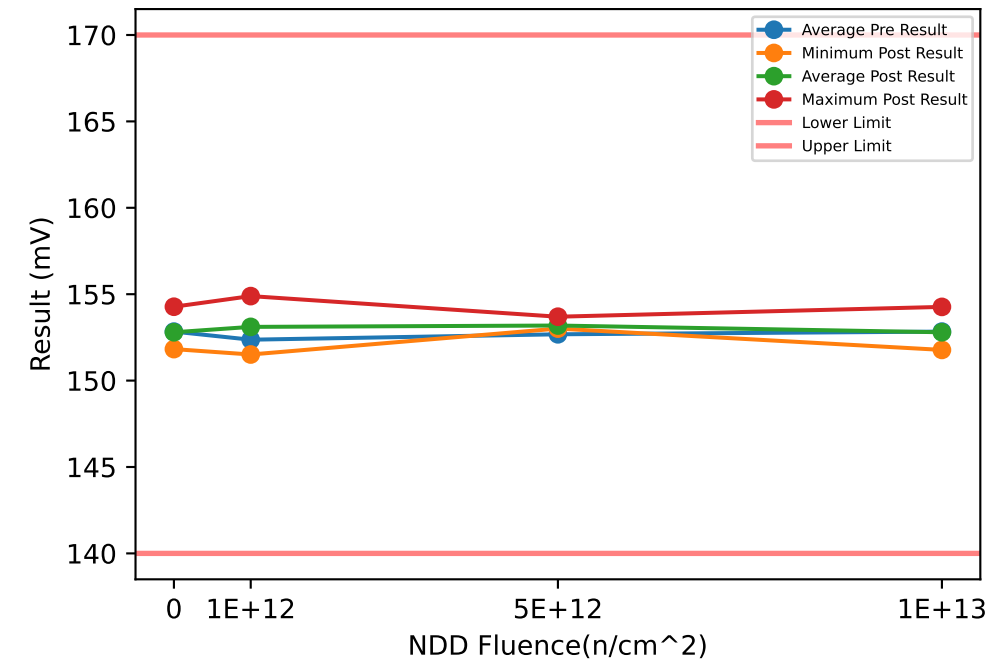


Test Statistics (V)

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	3.6097	3.6256	3.6439	0.015168	3.611	3.6251	3.6445	0.015203	-0.0021	-0.0005	0.0013	0.0017029
1e+12	3.5952	3.6117	3.6272	0.013238	3.593	3.6104	3.6278	0.014238	-0.0033	-0.001375	0.0006	0.0017212
5e+12	3.5969	3.6128	3.6248	0.01164	3.5894	3.605	3.6167	0.011387	-0.0081	-0.007775	-0.0074	0.00037749
1e+13	3.6124	3.6175	3.6266	0.0062734	3.5955	3.6023	3.6131	0.0077225	-0.0169	-0.015225	-0.0135	0.0017231

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

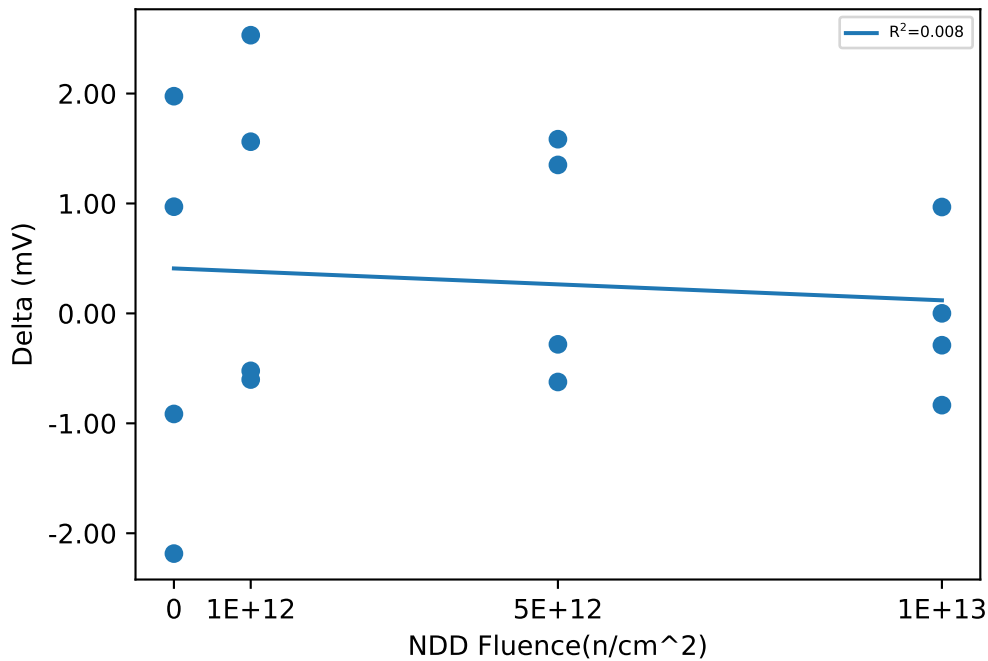
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	152.3	151.78	-0.5226
266	1e+12	NDD	152.11	151.51	-0.6018
267	1e+12	NDD	152.7	154.26	1.5619
288	1e+12	NDD	152.36	154.89	2.5308
348	5e+12	NDD	151.67	153.03	1.3507
353	5e+12	NDD	152.11	153.7	1.5848
370	5e+12	NDD	153.63	153.01	-0.6239
377	5e+12	NDD	153.3	153.02	-0.2815
389	1e+13	NDD	152.61	151.78	-0.8347
394	1e+13	NDD	153.36	153.07	-0.2895
395	1e+13	NDD	152.07	152.07	0.0005
571	1e+13	NDD	153.3	154.27	0.9678
649	0	CORRELATION	152.74	151.82	-0.9148
662	0	CORRELATION	154.88	152.7	-2.1851
690	0	CORRELATION	151.42	152.39	0.9706
708	0	CORRELATION	152.3	154.27	1.9758

NDD vs Post - Pre Exposure Delta

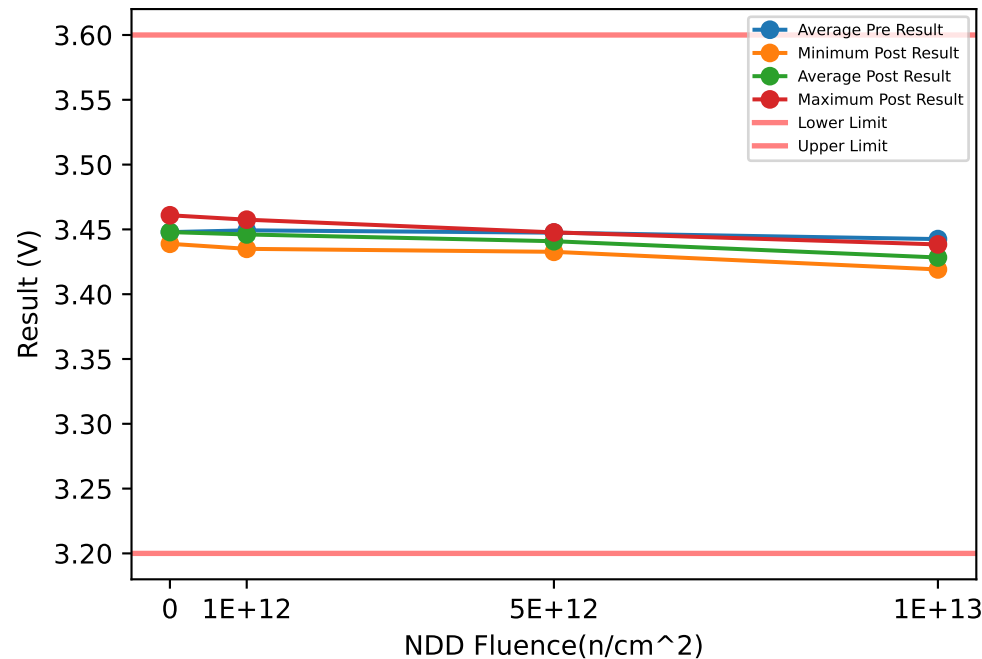


Test Statistics (mV)

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	151.42	152.83	154.88	1.4708	151.82	152.8	154.27	1.05	-2.1851	-0.038375	1.9758	1.8665
1e+12	152.11	152.37	152.7	0.24394	151.51	153.11	154.89	1.7152	-0.6018	0.74208	2.5308	1.5575
5e+12	151.67	152.68	153.63	0.93527	153.01	153.19	153.7	0.33999	-0.6239	0.50753	1.5848	1.1216
1e+13	152.07	152.84	153.36	0.6119	151.78	152.8	154.27	1.1252	-0.8347	-0.038975	0.9678	0.75523

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

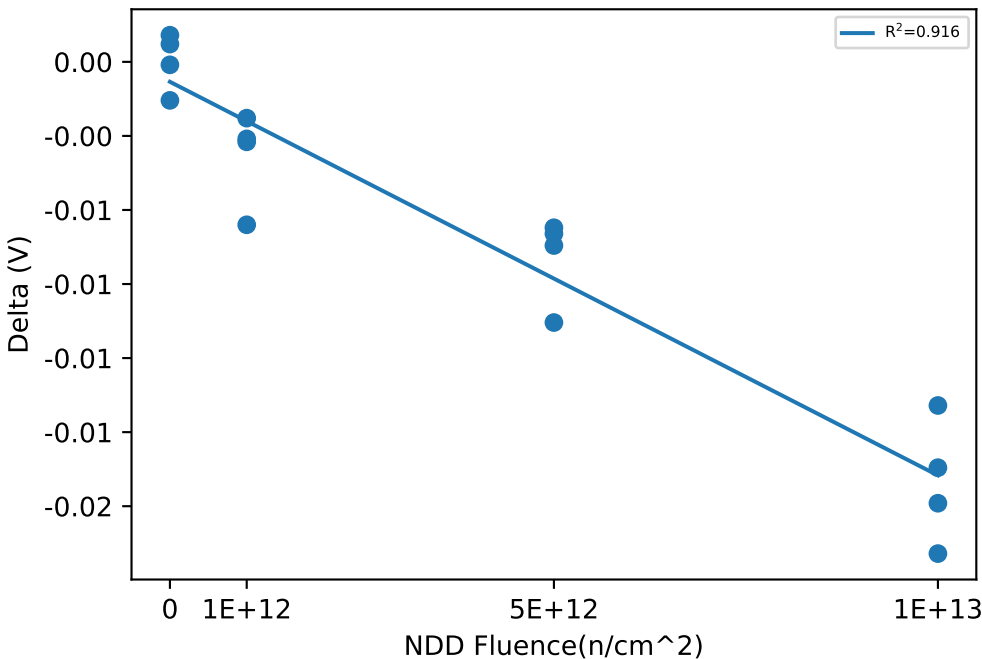
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.4493	3.4467	-0.0026
266	1e+12	NDD	3.4594	3.4575	-0.0019
267	1e+12	NDD	3.4405	3.435	-0.0055
288	1e+12	NDD	3.4479	3.4452	-0.0027
348	5e+12	NDD	3.4535	3.4477	-0.0058
353	5e+12	NDD	3.4503	3.4441	-0.0062
370	5e+12	NDD	3.4415	3.4327	-0.0088
377	5e+12	NDD	3.4446	3.439	-0.0056
389	1e+13	NDD	3.434	3.4191	-0.0149
394	1e+13	NDD	3.4402	3.4286	-0.0116
395	1e+13	NDD	3.4438	3.4272	-0.0166
571	1e+13	NDD	3.4521	3.4384	-0.0137
649	0	CORRELATION	3.438	3.4389	0.0009
662	0	CORRELATION	3.461	3.4609	-0.0001
690	0	CORRELATION	3.443	3.4436	0.0006
708	0	CORRELATION	3.4496	3.4483	-0.0013

NDD vs Post - Pre Exposure Delta

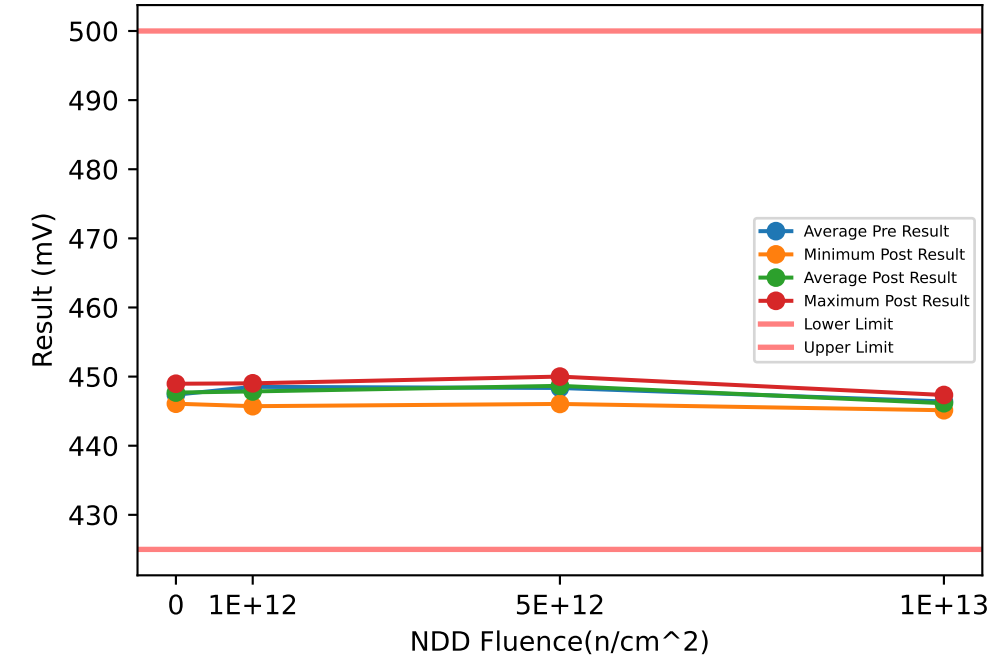


Test Statistics (V)

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	3.438	3.4479	3.461	0.0099418	3.4389	3.4479	3.4609	0.009463	-0.0013	2.5e-05	0.0009	0.00097767
1e+12	3.4405	3.4493	3.4594	0.0077762	3.435	3.4461	3.4575	0.0092076	-0.0055	-0.003175	-0.0019	0.0015903
5e+12	3.4415	3.4475	3.4535	0.0054236	3.4327	3.4409	3.4477	0.0065148	-0.0088	-0.0066	-0.0056	0.0014877
1e+13	3.434	3.4425	3.4521	0.0075584	3.4191	3.4283	3.4384	0.0079151	-0.0166	-0.0142	-0.0116	0.0021024

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

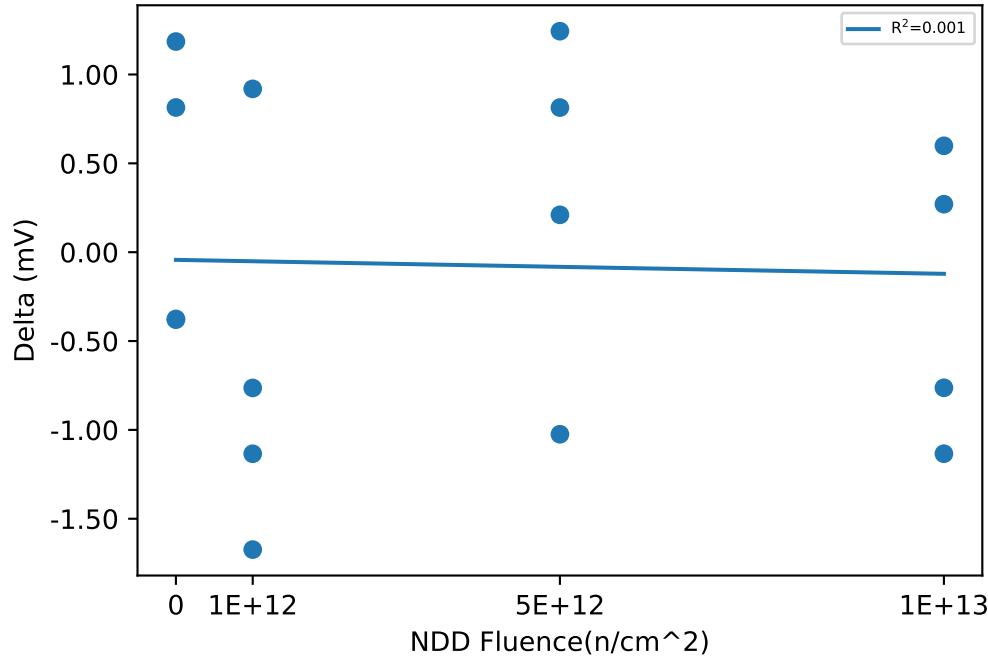
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	448.11	449.03	0.9191
266	1e+12	NDD	449.11	448.35	-0.7638
267	1e+12	NDD	447.39	445.72	-1.6736
288	1e+12	NDD	449.45	448.31	-1.1343
348	5e+12	NDD	448.76	450	1.2436
353	5e+12	NDD	449.11	449.32	0.2102
370	5e+12	NDD	447.07	446.04	-1.0246
377	5e+12	NDD	448.47	449.29	0.8139
389	1e+13	NDD	444.86	445.13	0.2701
394	1e+13	NDD	446.52	445.75	-0.763
395	1e+13	NDD	445.77	446.37	0.5986
571	1e+13	NDD	448.47	447.34	-1.134
649	0	CORRELATION	444.89	446.08	1.1854
662	0	CORRELATION	449.34	448.97	-0.3756
690	0	CORRELATION	446.85	447.66	0.8143
708	0	CORRELATION	448.43	448.05	-0.3797

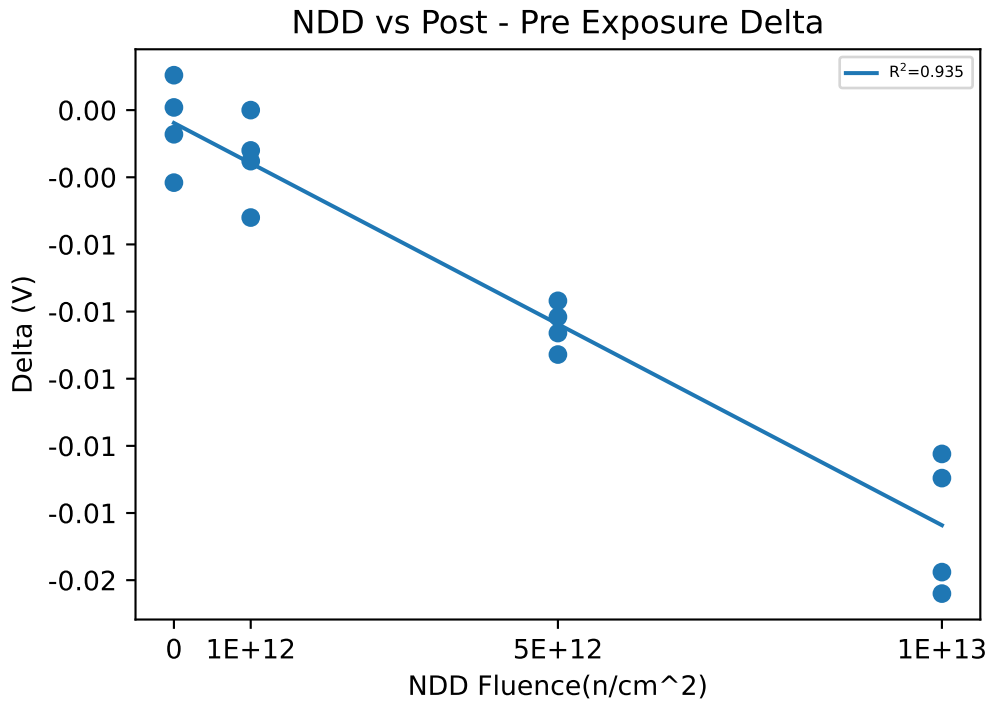
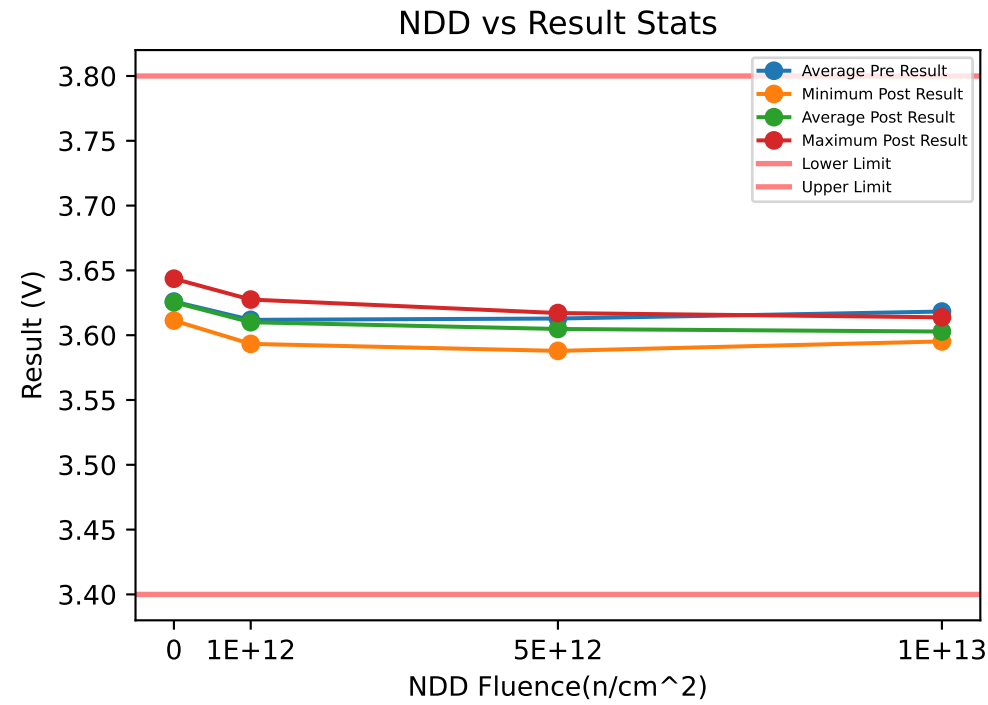
NDD vs Post - Pre Exposure Delta



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	444.89	447.38	449.34	1.9516	446.08	447.69	448.97	1.2055	-0.3797	0.3111	1.1854	0.8096
1e+12	447.39	448.52	449.45	0.93959	445.72	447.85	449.03	1.459	-1.6736	-0.66315	0.9191	1.119
5e+12	447.07	448.35	449.11	0.89557	446.04	448.66	450	1.777	-1.0246	0.31077	1.2436	0.98601
1e+13	444.86	446.41	448.47	1.535	445.13	446.15	447.34	0.94041	-1.134	-0.25708	0.5986	0.82362

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

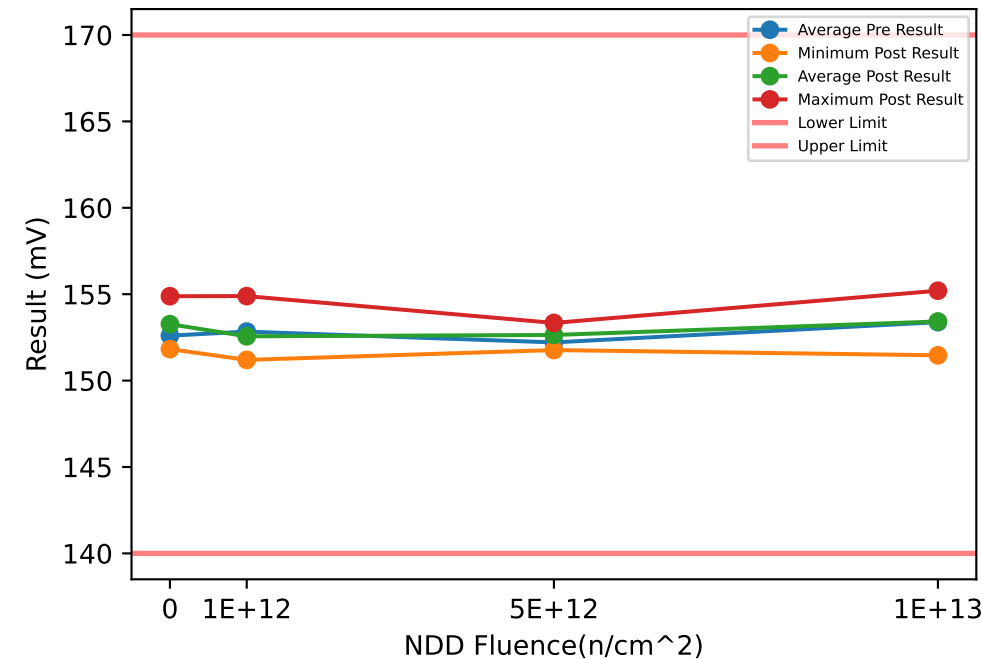


Test Results (Lower Limit = 3.4, Upper Limit = 3.8 (V))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.5952	3.5933	-0.0019
266	1e+12	NDD	3.6155	3.6115	-0.004
267	1e+12	NDD	3.6092	3.6077	-0.0015
288	1e+12	NDD	3.6275	3.6275	0
348	5e+12	NDD	3.6171	3.608	-0.0091
353	5e+12	NDD	3.6133	3.6062	-0.0071
370	5e+12	NDD	3.6248	3.6171	-0.0077
377	5e+12	NDD	3.5962	3.5879	-0.0083
389	1e+13	NDD	3.6124	3.5952	-0.0172
394	1e+13	NDD	3.6167	3.603	-0.0137
395	1e+13	NDD	3.6173	3.5993	-0.018
571	1e+13	NDD	3.6266	3.6138	-0.0128
649	0	CORRELATION	3.632	3.6293	-0.0027
662	0	CORRELATION	3.6173	3.6174	0.0001
690	0	CORRELATION	3.61	3.6113	0.0013
708	0	CORRELATION	3.6445	3.6436	-0.0009

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	3.61	3.626	3.6445	0.015383	3.6113	3.6254	3.6436	0.014251	-0.0027	-0.00055	0.0013	0.0016921
1e+12	3.5952	3.6119	3.6275	0.013447	3.5933	3.61	3.6275	0.014056	-0.004	-0.00185	0	0.0016503
5e+12	3.5962	3.6128	3.6248	0.012087	3.5879	3.6048	3.6171	0.012235	-0.0091	-0.00805	-0.0071	0.0008544
1e+13	3.6124	3.6182	3.6266	0.0059791	3.5952	3.6028	3.6138	0.0079801	-0.018	-0.015425	-0.0128	0.0025591

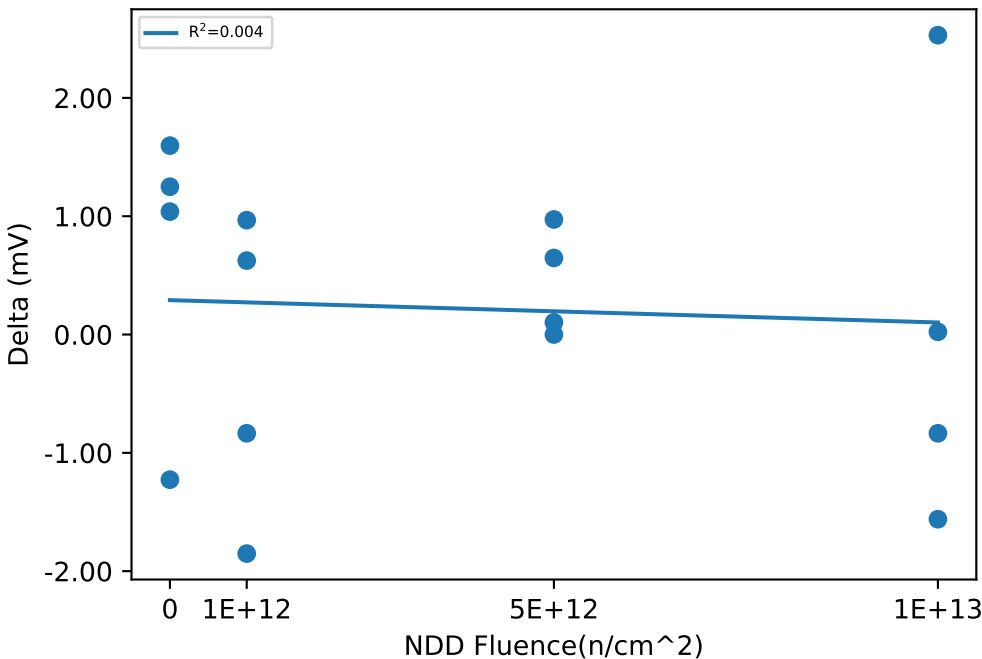
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	152.3	151.46	-0.8347
266	1e+12	NDD	153.05	151.2	-1.8515
267	1e+12	NDD	152.07	152.7	0.6249
288	1e+12	NDD	153.92	154.89	0.9666
348	5e+12	NDD	153.24	153.34	0.1025
353	5e+12	NDD	151.8	152.45	0.6473
370	5e+12	NDD	153.01	153.01	0.0002
377	5e+12	NDD	150.79	151.77	0.9725
389	1e+13	NDD	152.3	151.46	-0.8345
394	1e+13	NDD	153.99	154.01	0.0229
395	1e+13	NDD	154.57	153.01	-1.5609
571	1e+13	NDD	152.67	155.2	2.5299
649	0	CORRELATION	153.05	151.82	-1.2267
662	0	CORRELATION	153.63	154.88	1.2493
690	0	CORRELATION	151.11	152.7	1.5965
708	0	CORRELATION	152.61	153.65	1.039

NDD vs Post - Pre Exposure Delta

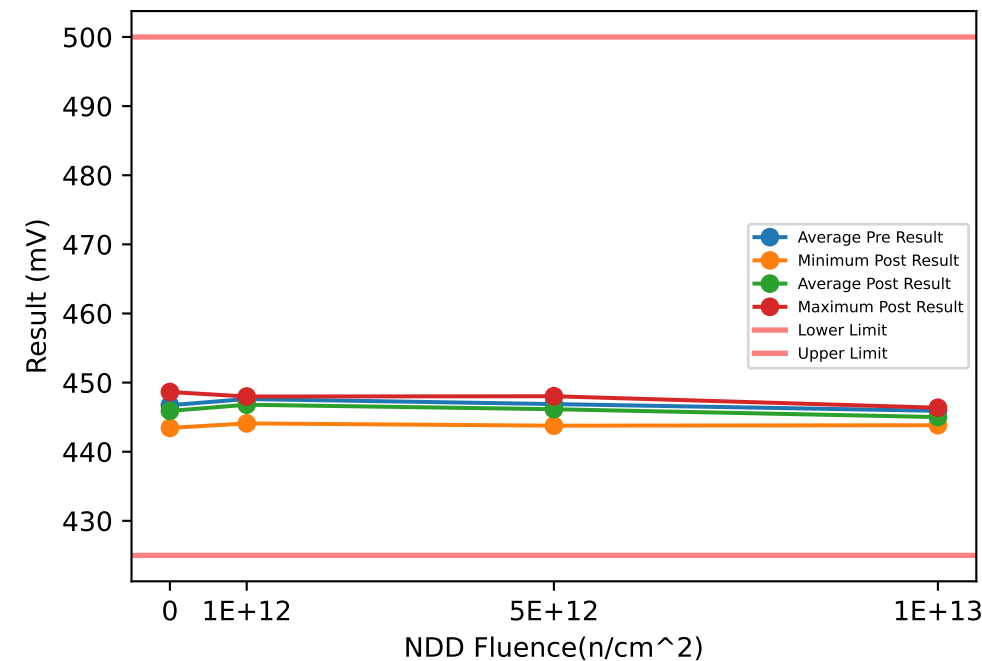


Test Statistics (mV)

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	151.11	152.6	153.63	1.0798	151.82	153.26	154.88	1.3117	-1.2267	0.66452	1.5965	1.2816
1e+12	152.07	152.84	153.92	0.83642	151.2	152.56	154.89	1.6835	-1.8515	-0.27367	0.9666	1.3102
5e+12	150.79	152.21	153.24	1.1345	151.77	152.64	153.34	0.68854	0.0002	0.43062	0.9725	0.45953
1e+13	152.3	153.38	154.57	1.0732	151.46	153.42	155.2	1.5828	-1.5609	0.03935	2.5299	1.7821

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

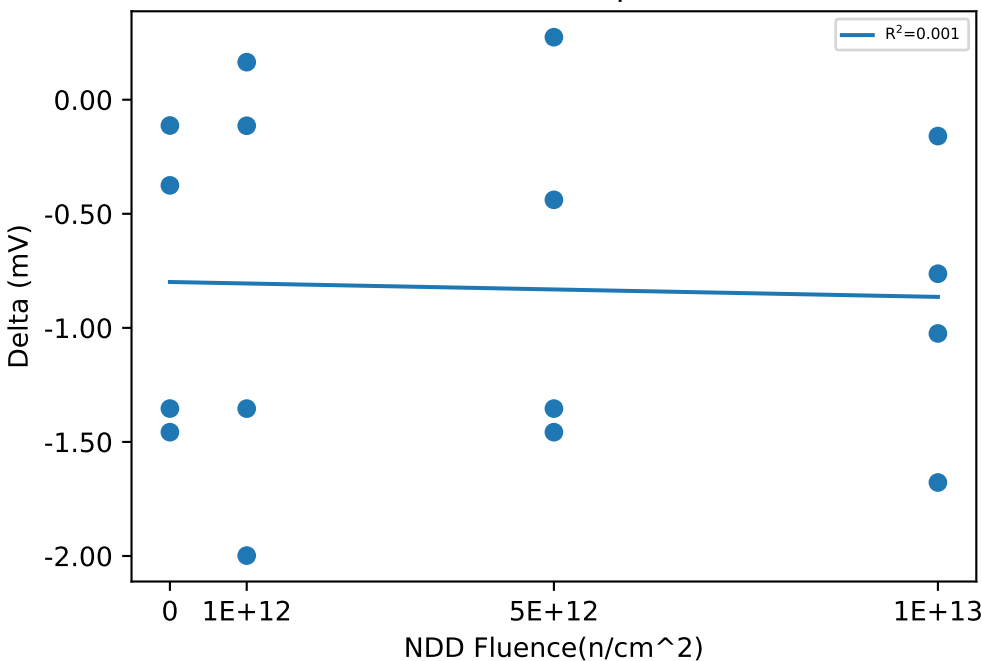
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	449.08	447.73	-1.354
266	1e+12	NDD	447.49	447.38	-0.1141
267	1e+12	NDD	446.1	444.1	-1.9983
288	1e+12	NDD	447.82	447.99	0.1647
348	5e+12	NDD	448.11	446.75	-1.3539
353	5e+12	NDD	448.46	448.03	-0.4388
370	5e+12	NDD	445.77	446.04	0.2741
377	5e+12	NDD	445.22	443.77	-1.4573
389	1e+13	NDD	445.51	443.83	-1.6779
394	1e+13	NDD	445.22	444.45	-0.7627
395	1e+13	NDD	446.42	445.4	-1.0246
571	1e+13	NDD	446.52	446.36	-0.1593
649	0	CORRELATION	444.24	444.13	-0.113
662	0	CORRELATION	449.02	448.64	-0.3754
690	0	CORRELATION	444.9	443.44	-1.4573
708	0	CORRELATION	448.76	447.4	-1.3537

NDD vs Post - Pre Exposure Delta

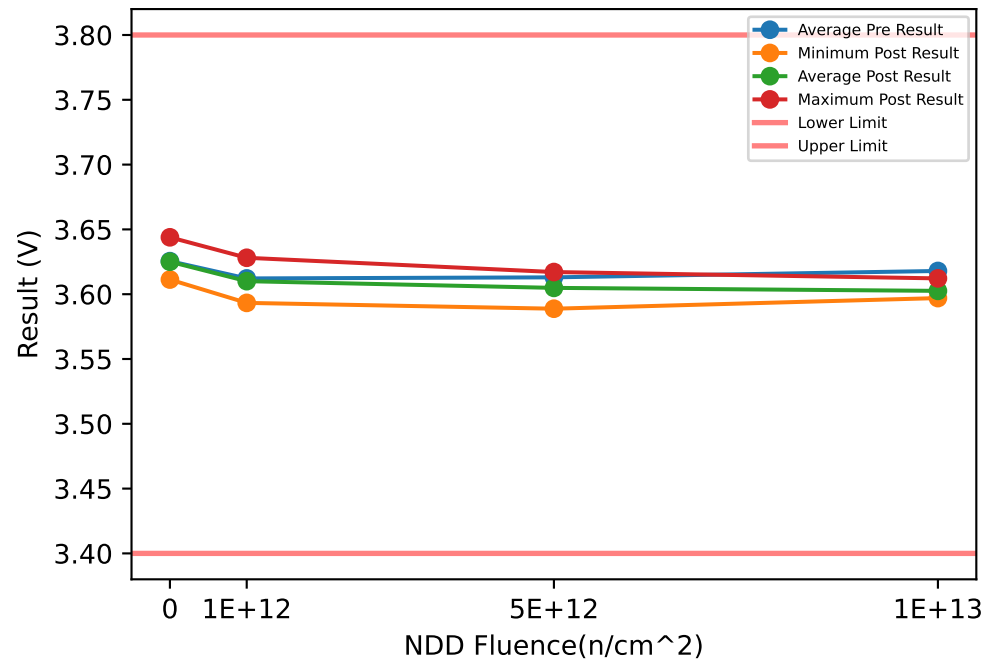


Test Statistics (mV)

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	444.24	446.73	449.02	2.5084	443.44	445.9	448.64	2.5134	-1.4573	-0.82485	-0.113	0.6803
1e+12	446.1	447.62	449.08	1.2277	444.1	446.8	447.99	1.8176	-1.9983	-0.82543	0.1647	1.0233
5e+12	445.22	446.89	448.46	1.6323	443.77	446.15	448.03	1.7866	-1.4573	-0.74398	0.2741	0.81863
1e+13	445.22	445.92	446.52	0.65179	443.83	445.01	446.36	1.1068	-1.6779	-0.90612	-0.1593	0.62928

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

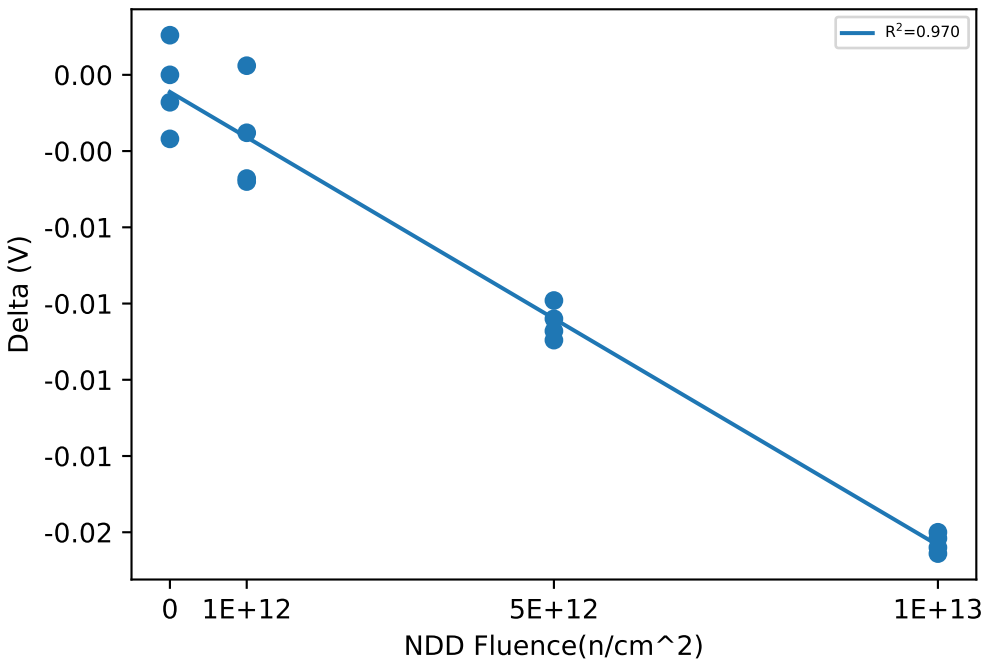
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.5952	3.5933	-0.0019
266	1e+12	NDD	3.6155	3.6121	-0.0034
267	1e+12	NDD	3.6102	3.6067	-0.0035
288	1e+12	NDD	3.6278	3.6281	0.0003
348	5e+12	NDD	3.6164	3.6077	-0.0087
353	5e+12	NDD	3.6133	3.6059	-0.0074
370	5e+12	NDD	3.6251	3.6171	-0.008
377	5e+12	NDD	3.5972	3.5888	-0.0084
389	1e+13	NDD	3.6127	3.597	-0.0157
394	1e+13	NDD	3.617	3.6018	-0.0152
395	1e+13	NDD	3.6148	3.5993	-0.0155
571	1e+13	NDD	3.6272	3.6122	-0.015
649	0	CORRELATION	3.6317	3.6296	-0.0021
662	0	CORRELATION	3.6155	3.6155	0
690	0	CORRELATION	3.61	3.6113	0.0013
708	0	CORRELATION	3.6448	3.6439	-0.0009

NDD vs Post - Pre Exposure Delta

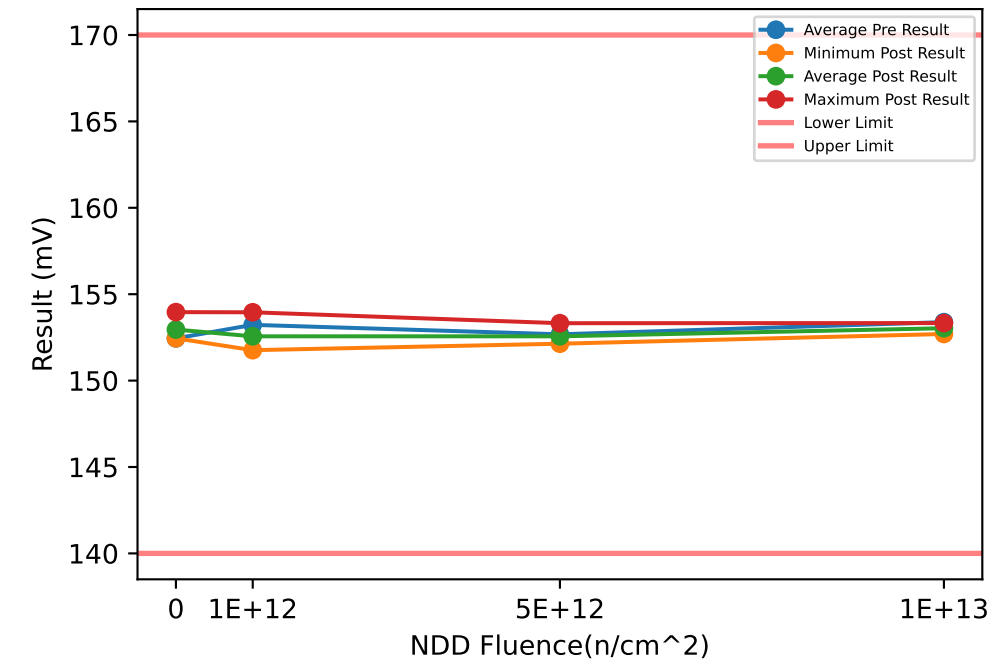


Test Statistics (V)

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	3.61	3.6255	3.6448	0.015824	3.6113	3.6251	3.6439	0.014791	-0.0021	-0.000425	0.0013	0.0014361
1e+12	3.5952	3.6122	3.6278	0.013506	3.5933	3.6101	3.6281	0.014397	-0.0035	-0.002125	0.0003	0.0017746
5e+12	3.5972	3.613	3.6251	0.011658	3.5888	3.6049	3.6171	0.011788	-0.0087	-0.008125	-0.0074	0.00056199
1e+13	3.6127	3.6179	3.6272	0.0064277	3.597	3.6026	3.6122	0.0067094	-0.0157	-0.01535	-0.015	0.00031091

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

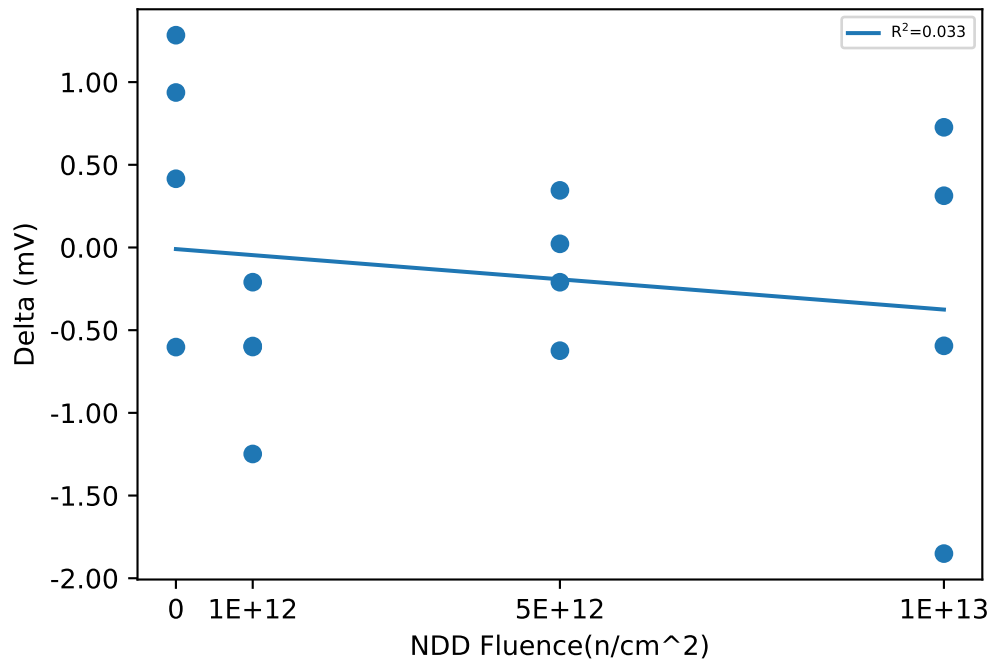
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	152.61	152.4	-0.2098
266	1e+12	NDD	152.74	152.14	-0.6018
267	1e+12	NDD	153.01	151.76	-1.2486
288	1e+12	NDD	154.55	153.95	-0.5958
348	5e+12	NDD	152.61	152.4	-0.2101
353	5e+12	NDD	152.11	152.13	0.0222
370	5e+12	NDD	153.95	153.32	-0.624
377	5e+12	NDD	152.05	152.39	0.3454
389	1e+13	NDD	152.3	153.03	0.7267
394	1e+13	NDD	154.92	153.07	-1.851
395	1e+13	NDD	152.38	152.7	0.313
571	1e+13	NDD	153.92	153.33	-0.5946
649	0	CORRELATION	153.05	152.45	-0.6023
662	0	CORRELATION	151.76	152.7	0.9372
690	0	CORRELATION	151.42	152.7	1.2837
708	0	CORRELATION	153.55	153.96	0.4156

NDD vs Post - Pre Exposure Delta

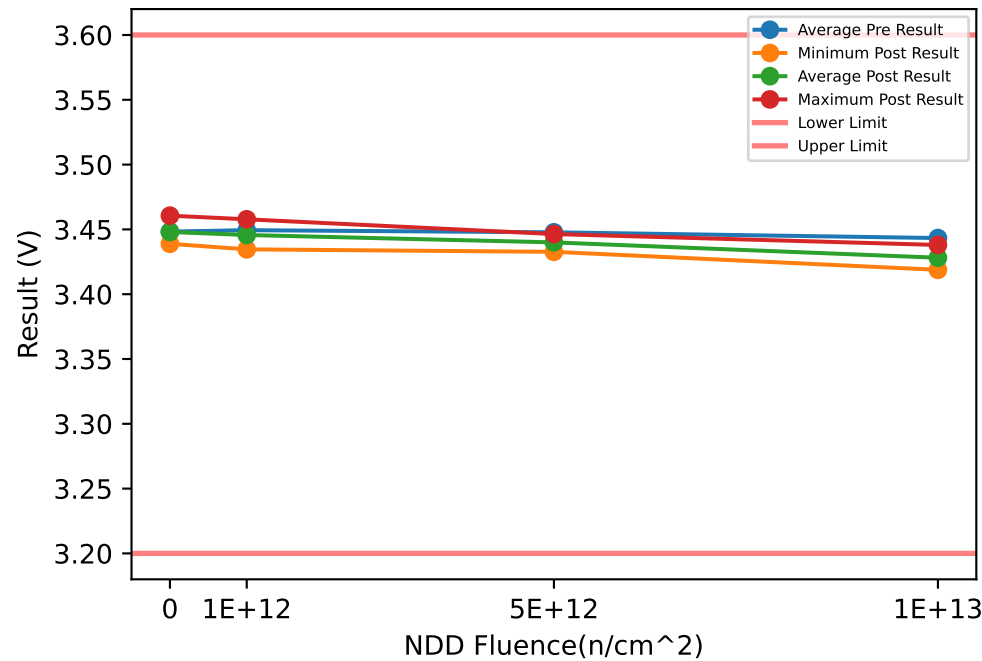


Test Statistics (mV)

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	151.42	152.44	153.55	1.0163	152.45	152.95	153.96	0.68367	-0.6023	0.50855	1.2837	0.82204
1e+12	152.61	153.23	154.55	0.89709	151.76	152.56	153.95	0.96347	-1.2486	-0.664	-0.2098	0.43073
5e+12	152.05	152.68	153.95	0.88144	152.13	152.56	153.32	0.52117	-0.624	-0.11662	0.3454	0.4078
1e+13	152.3	153.38	154.92	1.2698	152.7	153.03	153.33	0.2592	-1.851	-0.35148	0.7267	1.1419

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

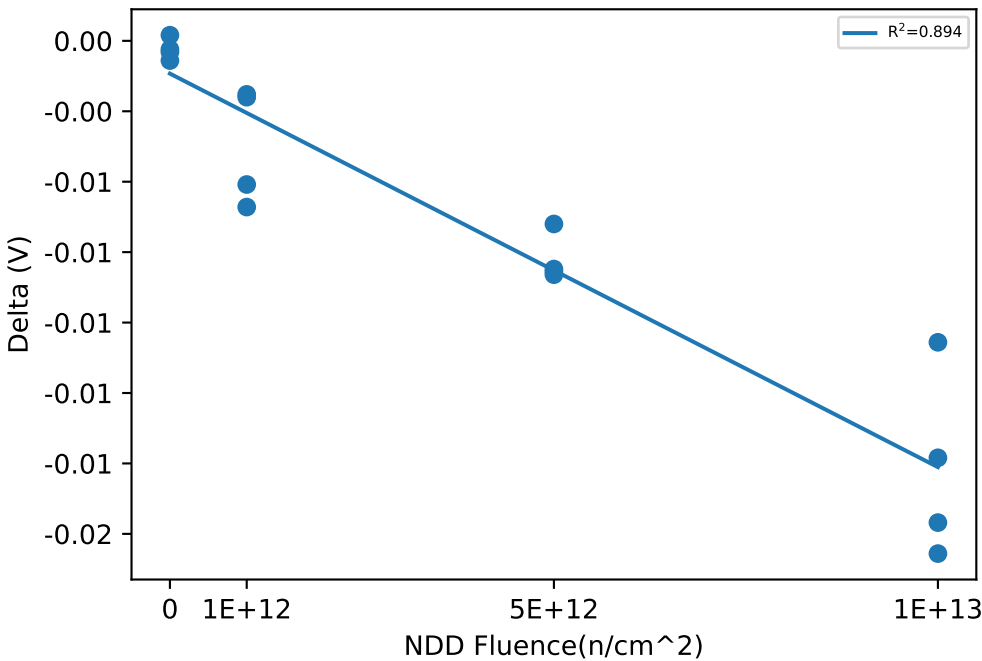
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.4502	3.4451	-0.0051
266	1e+12	NDD	3.4597	3.4578	-0.0019
267	1e+12	NDD	3.4405	3.4346	-0.0059
288	1e+12	NDD	3.4472	3.4452	-0.002
348	5e+12	NDD	3.4545	3.4464	-0.0081
353	5e+12	NDD	3.4506	3.4441	-0.0065
370	5e+12	NDD	3.4409	3.4327	-0.0082
377	5e+12	NDD	3.445	3.4367	-0.0083
389	1e+13	NDD	3.4359	3.4188	-0.0171
394	1e+13	NDD	3.4399	3.4292	-0.0107
395	1e+13	NDD	3.4447	3.4265	-0.0182
571	1e+13	NDD	3.4528	3.438	-0.0148
649	0	CORRELATION	3.4393	3.4389	-0.0004
662	0	CORRELATION	3.4613	3.4606	-0.0007
690	0	CORRELATION	3.443	3.4432	0.0002
708	0	CORRELATION	3.4496	3.4493	-0.0003

NDD vs Post - Pre Exposure Delta

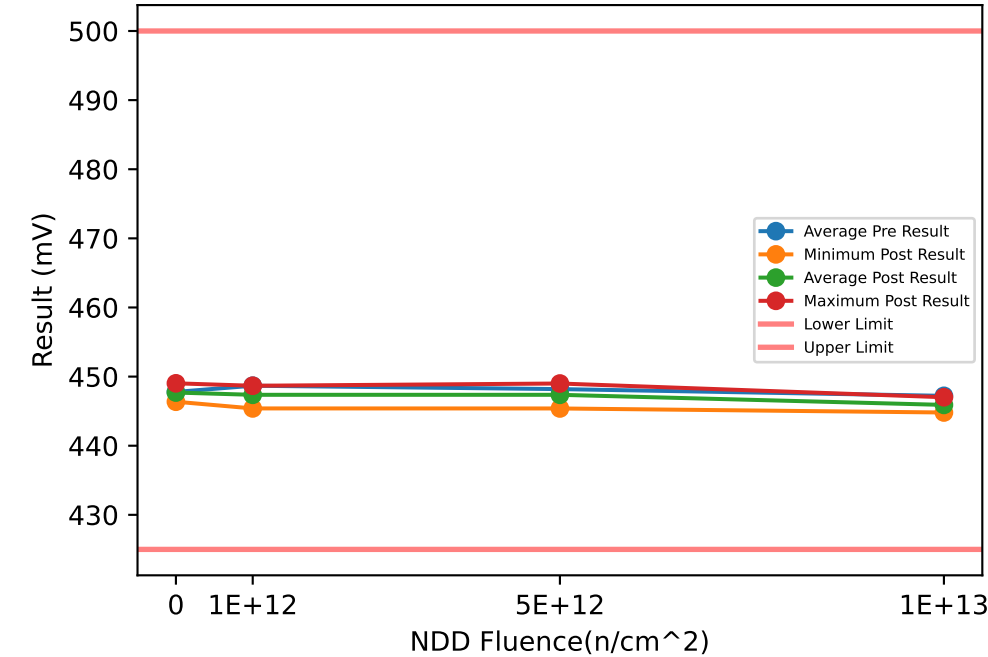


Test Statistics (V)

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	3.4393	3.4483	3.4613	0.0096571	3.4389	3.448	3.4606	0.0094216	-0.0007	-0.0003	0.0002	0.00037417
1e+12	3.4405	3.4494	3.4597	0.0079745	3.4346	3.4457	3.4578	0.0094908	-0.0059	-0.003725	-0.0019	0.0020759
5e+12	3.4409	3.4478	3.4545	0.0060047	3.4327	3.44	3.4464	0.0063757	-0.0083	-0.007775	-0.0065	0.00085391
1e+13	3.4359	3.4433	3.4528	0.0072693	3.4188	3.4281	3.438	0.0079219	-0.0182	-0.0152	-0.0107	0.0033176

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

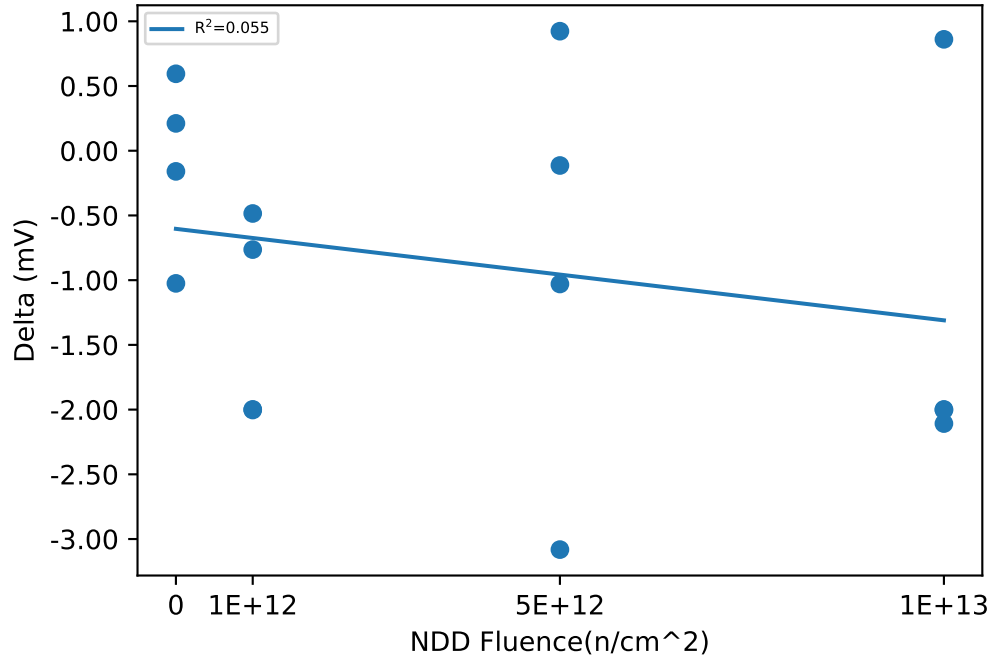
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	449.08	447.08	-2.0032
266	1e+12	NDD	449.44	448.68	-0.7638
267	1e+12	NDD	447.39	445.4	-1.9983
288	1e+12	NDD	448.8	448.31	-0.4848
348	5e+12	NDD	449.73	448.7	-1.0295
353	5e+12	NDD	449.11	449	-0.114
370	5e+12	NDD	445.45	446.37	0.9235
377	5e+12	NDD	448.47	445.39	-3.0816
389	1e+13	NDD	446.81	444.81	-2.0029
394	1e+13	NDD	445.87	446.73	0.8607
395	1e+13	NDD	447.07	445.07	-1.9986
571	1e+13	NDD	449.12	447.01	-2.1079
649	0	CORRELATION	446.19	446.4	0.2112
662	0	CORRELATION	449.99	448.97	-1.0248
690	0	CORRELATION	446.52	446.36	-0.1595
708	0	CORRELATION	448.43	449.03	0.5944

NDD vs Post - Pre Exposure Delta

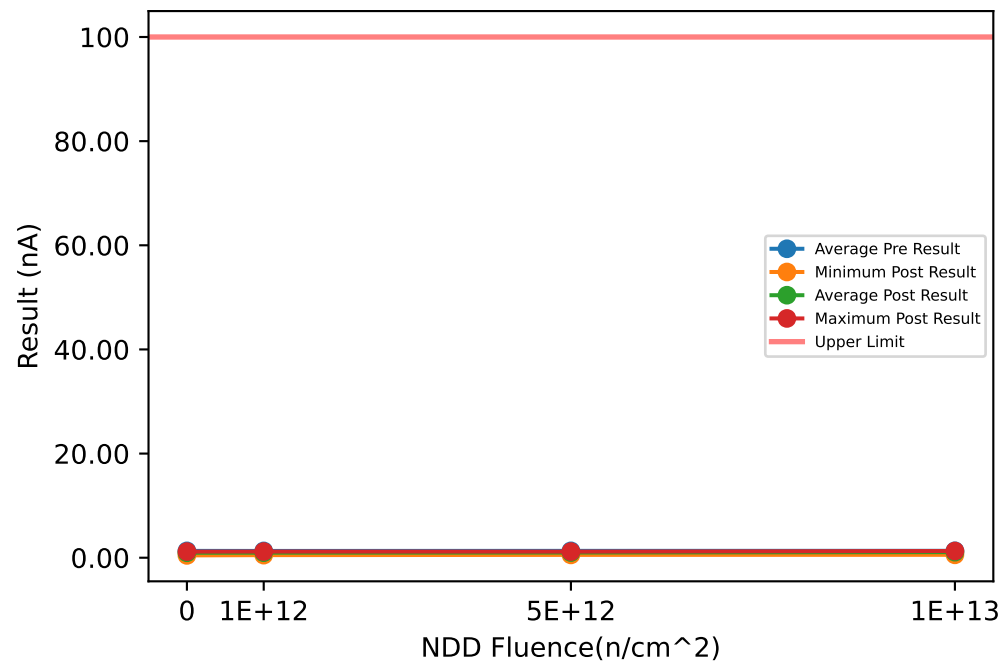


Test Statistics (mV)

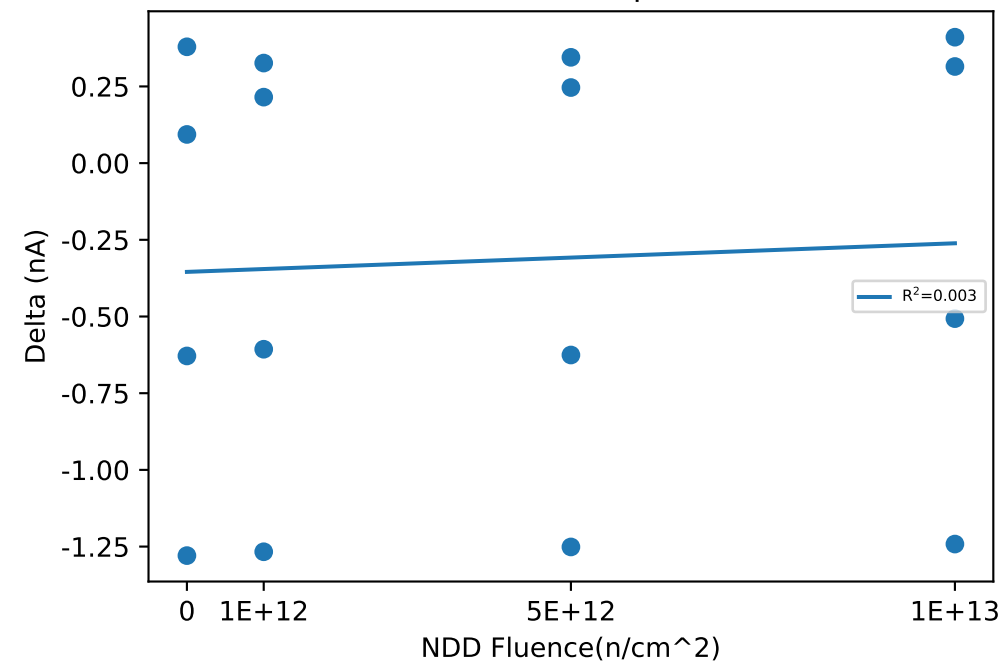
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	446.19	447.78	449.99	1.7718	446.36	447.69	449.03	1.5093	-1.0248	-0.094675	0.5944	0.69227
1e+12	447.39	448.68	449.44	0.89563	445.4	447.37	448.68	1.4803	-2.0032	-1.3125	-0.4848	0.80282
5e+12	445.45	448.19	449.73	1.9011	445.39	447.37	449	1.7659	-3.0816	-0.8254	0.9235	1.7026
1e+13	445.87	447.22	449.12	1.3706	444.81	445.9	447.01	1.1265	-2.1079	-1.3122	0.8607	1.4495

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

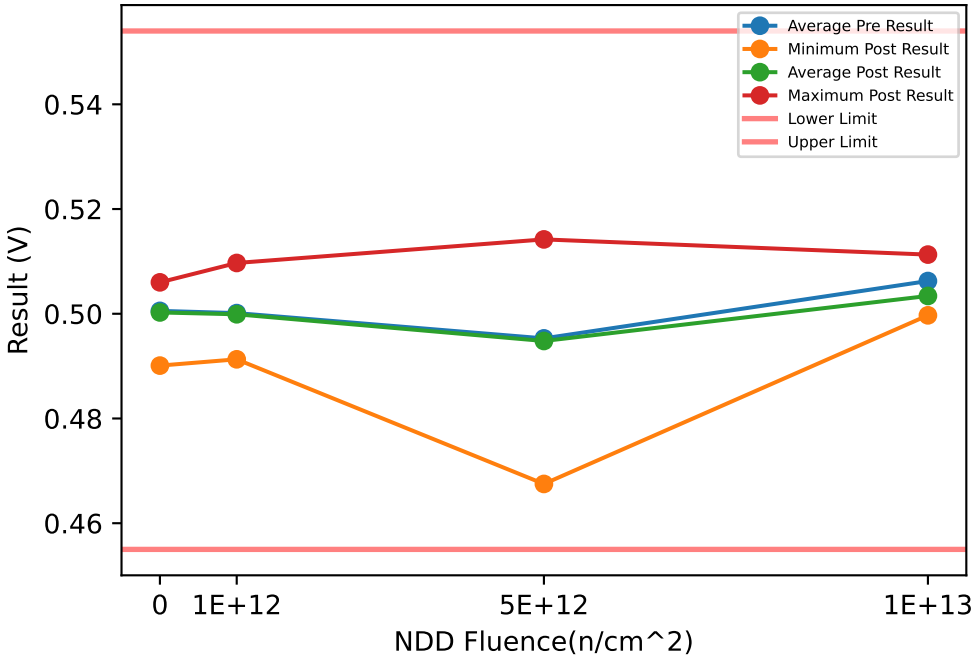
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.8436	1.0587	0.2151
266	1e+12	NDD	0.8111	1.1373	0.3262
267	1e+12	NDD	1.1037	0.497	-0.6067
288	1e+12	NDD	2.4543	1.1874	-1.2669
348	5e+12	NDD	0.8716	1.118	0.2464
353	5e+12	NDD	0.8049	1.1498	0.3449
370	5e+12	NDD	1.1693	0.5438	-0.6255
377	5e+12	NDD	2.4262	1.175	-1.2512
389	1e+13	NDD	0.9122	1.2272	0.315
394	1e+13	NDD	0.808	1.2185	0.4105
395	1e+13	NDD	1.0632	0.5563	-0.5069
571	1e+13	NDD	2.5291	1.2873	-1.2418
649	0	CORRELATION	0.7955	1.1747	0.3792
662	0	CORRELATION	1.0756	0.447	-0.6286
690	0	CORRELATION	2.4044	1.125	-1.2794
708	0	CORRELATION	0.9839	1.0774	0.0935

Test Statistics (nA)

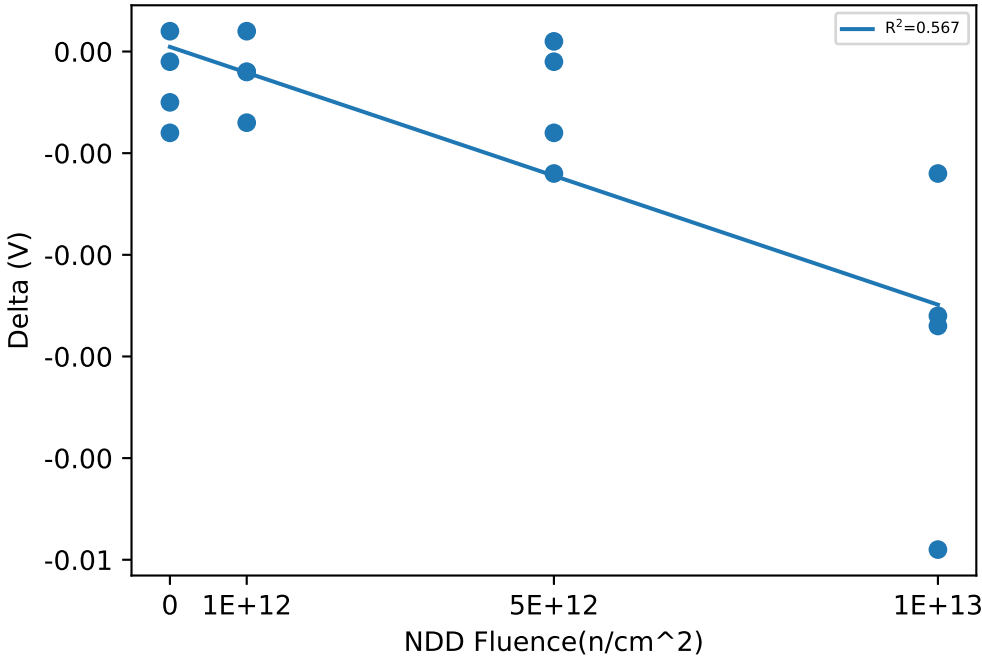
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.7955	1.3148	2.4044	0.73567	0.447	0.95603	1.1747	0.34167	-1.2794	-0.35882	0.3792	0.74599
1e+12	0.8111	1.3032	2.4543	0.77851	0.497	0.9701	1.1874	0.31982	-1.2669	-0.33308	0.3262	0.74879
5e+12	0.8049	1.318	2.4262	0.75559	0.5438	0.99665	1.175	0.3028	-1.2512	-0.32135	0.3449	0.75793
1e+13	0.808	1.3281	2.5291	0.80748	0.5563	1.0723	1.2873	0.34537	-1.2418	-0.2558	0.4105	0.77568

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

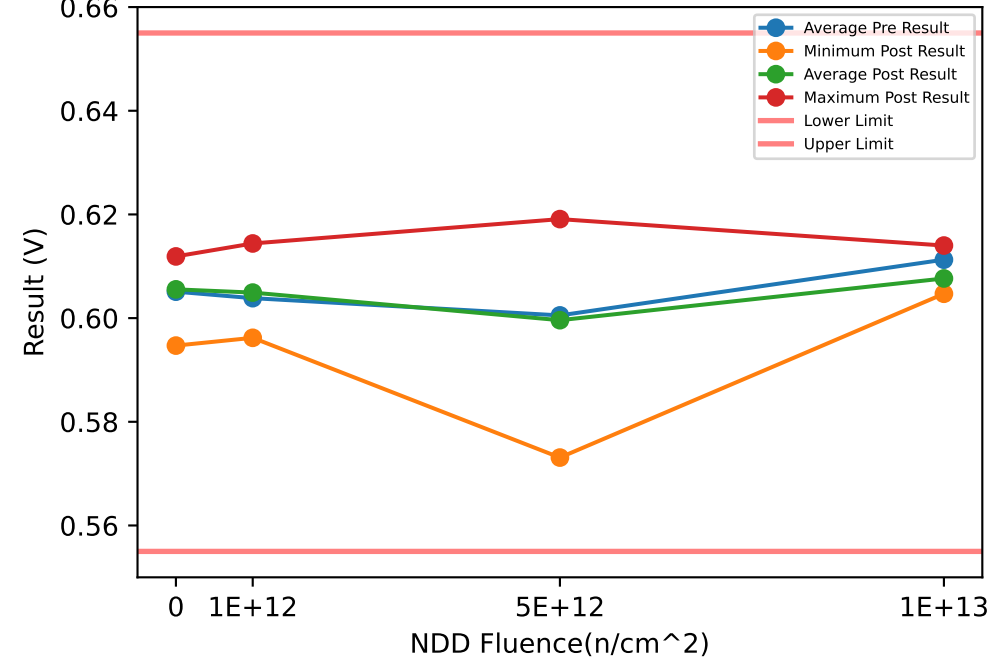
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.492	0.4913	-0.0007
266	1e+12	NDD	0.5099	0.5097	-0.0002
267	1e+12	NDD	0.4936	0.4938	0.0002
288	1e+12	NDD	0.505	0.5048	-0.0002
348	5e+12	NDD	0.4942	0.4934	-0.0008
353	5e+12	NDD	0.4687	0.4675	-0.0012
370	5e+12	NDD	0.5042	0.5041	-0.0001
377	5e+12	NDD	0.5141	0.5142	0.0001
389	1e+13	NDD	0.5052	0.5003	-0.0049
394	1e+13	NDD	0.5024	0.4997	-0.0027
395	1e+13	NDD	0.5139	0.5113	-0.0026
571	1e+13	NDD	0.5035	0.5023	-0.0012
649	0	CORRELATION	0.5068	0.506	-0.0008
662	0	CORRELATION	0.4902	0.4901	-0.0001
690	0	CORRELATION	0.5013	0.5008	-0.0005
708	0	CORRELATION	0.5039	0.5041	0.0002

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	0.4902	0.50055	0.5068	0.0072565	0.4901	0.50025	0.506	0.0070995	-0.0008	-0.0003	0.0002	0.0004397
1e+12	0.492	0.50012	0.5099	0.008716	0.4913	0.4999	0.5097	0.0087791	-0.0007	-0.000225	0.0002	0.00036856
5e+12	0.4687	0.4953	0.5141	0.019506	0.4675	0.4948	0.5142	0.020084	-0.0012	-0.0005	0.0001	0.00060553
1e+13	0.5024	0.50625	0.5139	0.0052284	0.4997	0.5034	0.5113	0.0053827	-0.0049	-0.00285	-0.0012	0.0015286

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

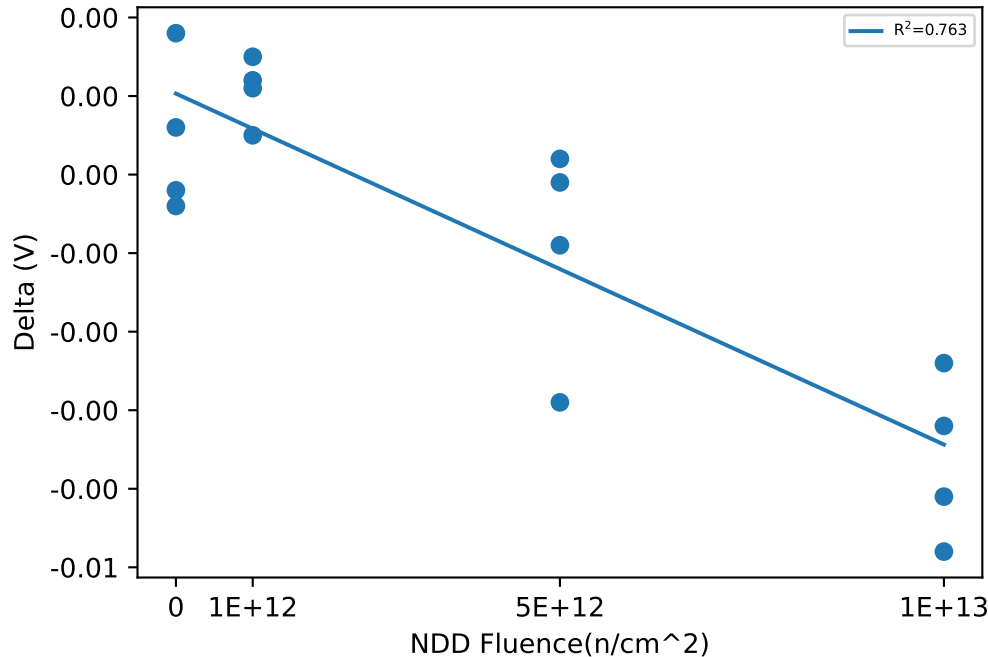
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.595	0.5962	0.0012
266	1e+12	NDD	0.6133	0.6144	0.0011
267	1e+12	NDD	0.5979	0.5994	0.0015
288	1e+12	NDD	0.6092	0.6097	0.0005
348	5e+12	NDD	0.5997	0.5968	-0.0029
353	5e+12	NDD	0.574	0.5731	-0.0009
370	5e+12	NDD	0.6092	0.6094	0.0002
377	5e+12	NDD	0.6192	0.6191	-0.0001
389	1e+13	NDD	0.61	0.6059	-0.0041
394	1e+13	NDD	0.6071	0.6047	-0.0024
395	1e+13	NDD	0.6188	0.614	-0.0048
571	1e+13	NDD	0.6092	0.606	-0.0032
649	0	CORRELATION	0.6121	0.6119	-0.0002
662	0	CORRELATION	0.5929	0.5947	0.0018
690	0	CORRELATION	0.6051	0.6057	0.0006
708	0	CORRELATION	0.6103	0.6099	-0.0004

NDD vs Post - Pre Exposure Delta

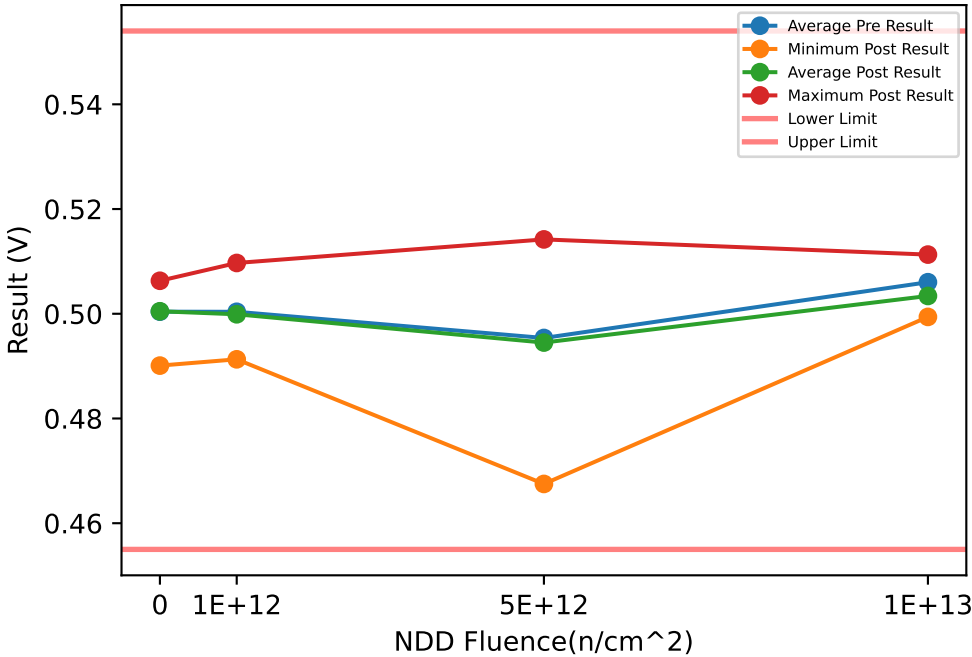


Test Statistics (V)

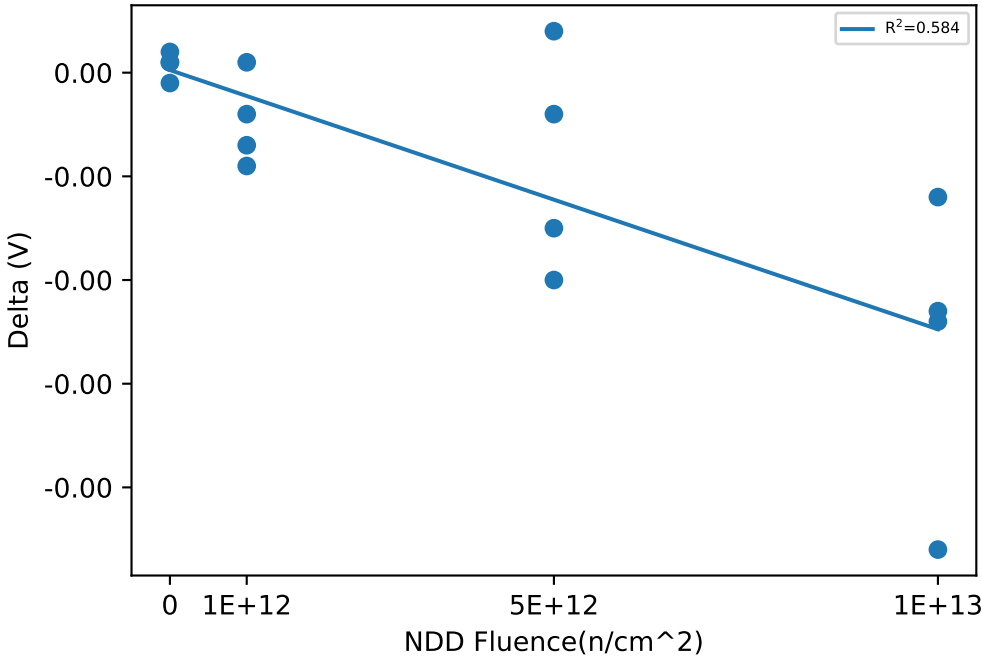
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5929	0.6051	0.6121	0.0086579	0.5947	0.60555	0.6119	0.0076809	-0.0004	0.00045	0.0018	0.00099833
1e+12	0.595	0.60385	0.6133	0.0087873	0.5962	0.60492	0.6144	0.0085484	0.0005	0.001075	0.0015	0.00041932
5e+12	0.574	0.60052	0.6192	0.019393	0.5731	0.5996	0.6191	0.019886	-0.0029	-0.000925	0.0002	0.0013961
1e+13	0.6071	0.61128	0.6188	0.0051636	0.6047	0.60765	0.614	0.0042743	-0.0048	-0.003625	-0.0024	0.0010468

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

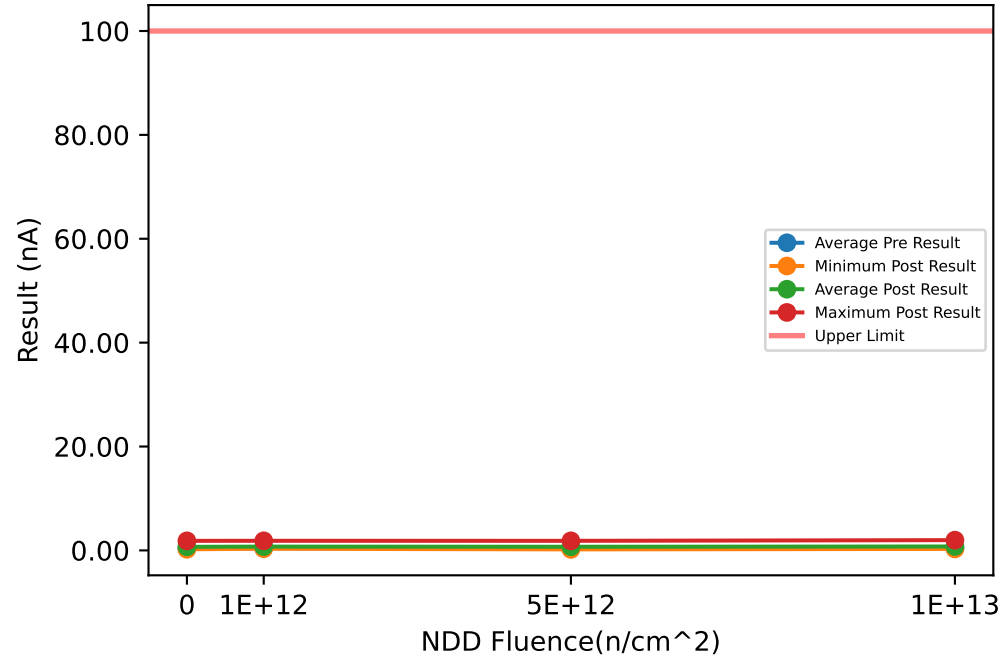
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.492	0.4913	-0.0007
266	1e+12	NDD	0.5106	0.5097	-0.0009
267	1e+12	NDD	0.4942	0.4938	-0.0004
288	1e+12	NDD	0.5047	0.5048	0.0001
348	5e+12	NDD	0.4942	0.4922	-0.002
353	5e+12	NDD	0.469	0.4675	-0.0015
370	5e+12	NDD	0.5045	0.5041	-0.0004
377	5e+12	NDD	0.5138	0.5142	0.0004
389	1e+13	NDD	0.5052	0.5006	-0.0046
394	1e+13	NDD	0.5018	0.4994	-0.0024
395	1e+13	NDD	0.5136	0.5113	-0.0023
571	1e+13	NDD	0.5035	0.5023	-0.0012
649	0	CORRELATION	0.5062	0.5063	0.0001
662	0	CORRELATION	0.4902	0.4901	-0.0001
690	0	CORRELATION	0.5013	0.5014	0.0001
708	0	CORRELATION	0.5039	0.5041	0.0002

Test Statistics (V)

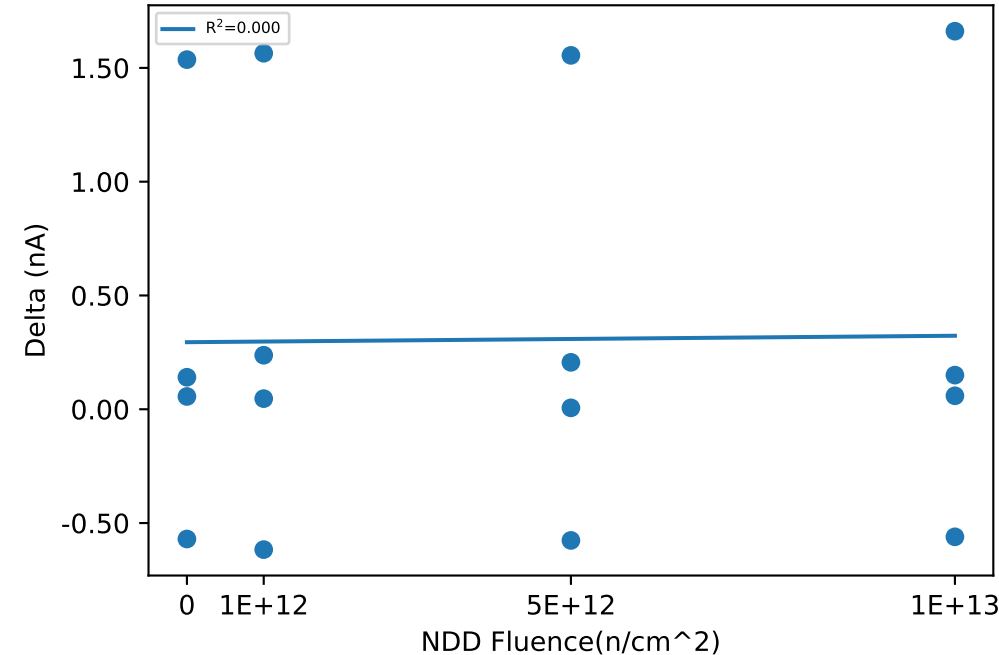
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4902	0.5004	0.5062	0.0070885	0.4901	0.50048	0.5063	0.0072011	-0.0001	7.5e-05	0.0002	0.00012583
1e+12	0.492	0.50038	0.5106	0.008785	0.4913	0.4999	0.5097	0.0087791	-0.0009	-0.000475	0.0001	0.00043493
5e+12	0.469	0.49538	0.5138	0.01932	0.4675	0.4945	0.5142	0.020121	-0.002	-0.000875	0.0004	0.0010813
1e+13	0.5018	0.50602	0.5136	0.0052373	0.4994	0.5034	0.5113	0.0053994	-0.0046	-0.002625	-0.0012	0.0014245

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

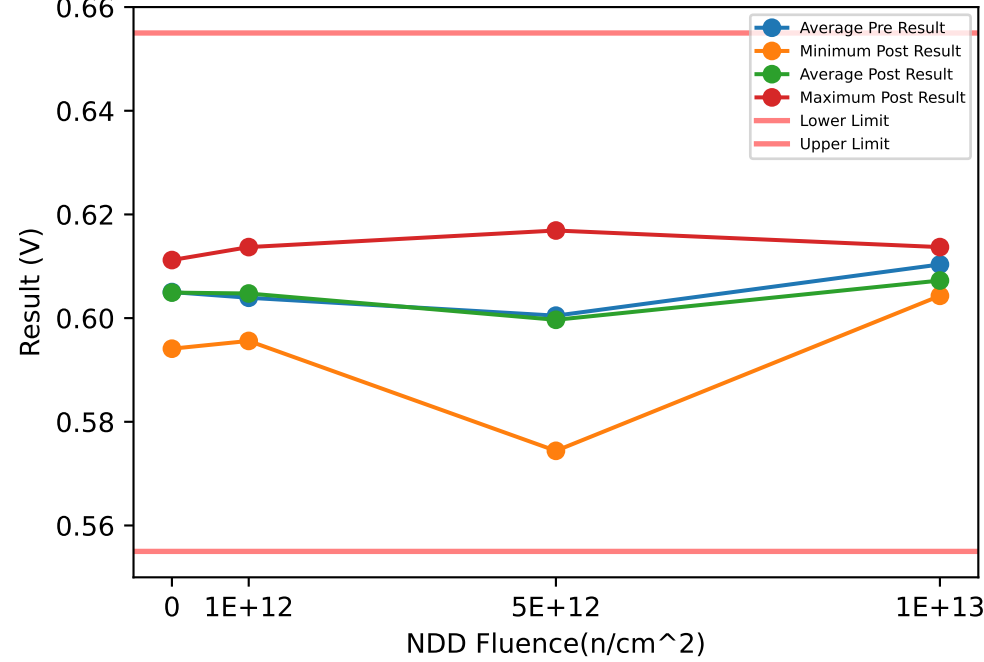
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.1622	0.3996	0.2374
266	1e+12	NDD	0.2842	1.8486	1.5644
267	1e+12	NDD	0.3029	0.3496	0.0467
288	1e+12	NDD	0.9382	0.3215	-0.6167
348	5e+12	NDD	0.1996	0.4058	0.2062
353	5e+12	NDD	0.2873	1.8424	1.5551
370	5e+12	NDD	0.3434	0.3496	0.0062
377	5e+12	NDD	0.7699	0.1935	-0.5764
389	1e+13	NDD	0.2246	0.3746	0.15
394	1e+13	NDD	0.3154	1.9767	1.6613
395	1e+13	NDD	0.3185	0.3777	0.0592
571	1e+13	NDD	0.8447	0.2841	-0.5606
649	0	CORRELATION	0.3029	1.8393	1.5364
662	0	CORRELATION	0.2279	0.2841	0.0562
690	0	CORRELATION	0.7886	0.2185	-0.5701
708	0	CORRELATION	0.2495	0.3902	0.1407

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	0.2279	0.39222	0.7886	0.26612	0.2185	0.68302	1.8393	0.77409	-0.5701	0.2908	1.5364	0.88886
1e+12	0.1622	0.42188	0.9382	0.34982	0.3215	0.72982	1.8486	0.74655	-0.6167	0.30795	1.5644	0.91412
5e+12	0.1996	0.40005	0.7699	0.25357	0.1935	0.69783	1.8424	0.76832	-0.5764	0.29777	1.5551	0.90156
1e+13	0.2246	0.4258	0.8447	0.28264	0.2841	0.75328	1.9767	0.81677	-0.5606	0.32747	1.6613	0.94362

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

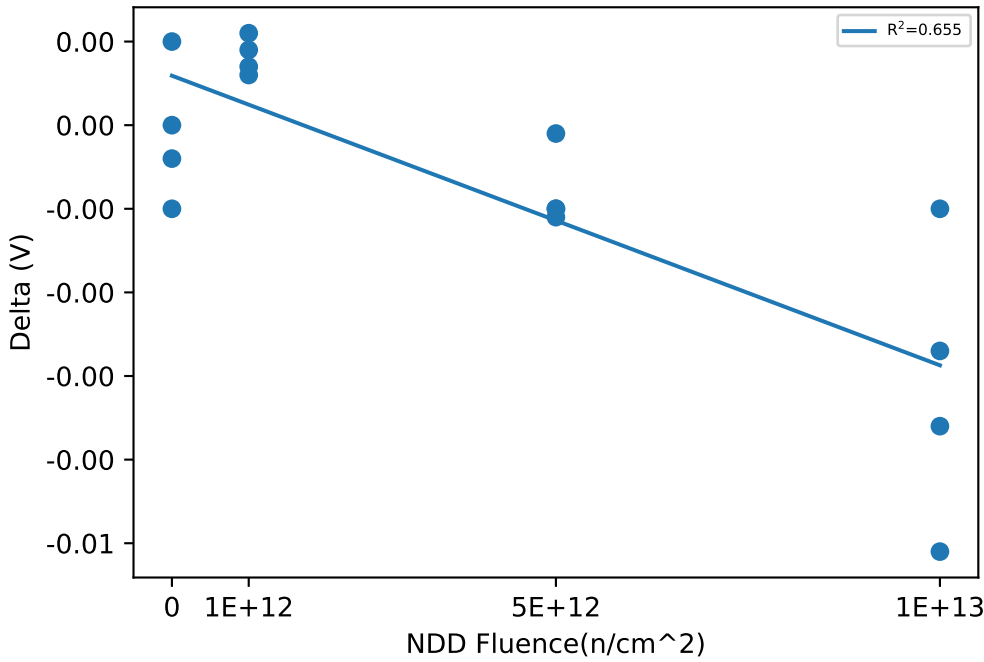
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.5947	0.5956	0.0009
266	1e+12	NDD	0.613	0.6137	0.0007
267	1e+12	NDD	0.5976	0.5987	0.0011
288	1e+12	NDD	0.6104	0.611	0.0006
348	5e+12	NDD	0.5997	0.5987	-0.001
353	5e+12	NDD	0.5755	0.5744	-0.0011
370	5e+12	NDD	0.6088	0.6087	-0.0001
377	5e+12	NDD	0.6179	0.6169	-0.001
389	1e+13	NDD	0.6094	0.6043	-0.0051
394	1e+13	NDD	0.6071	0.6044	-0.0027
395	1e+13	NDD	0.6173	0.6137	-0.0036
571	1e+13	NDD	0.6076	0.6066	-0.001
649	0	CORRELATION	0.6102	0.6112	0.001
662	0	CORRELATION	0.5951	0.5941	-0.001
690	0	CORRELATION	0.6057	0.6057	0
708	0	CORRELATION	0.6091	0.6087	-0.0004

NDD vs Post - Pre Exposure Delta

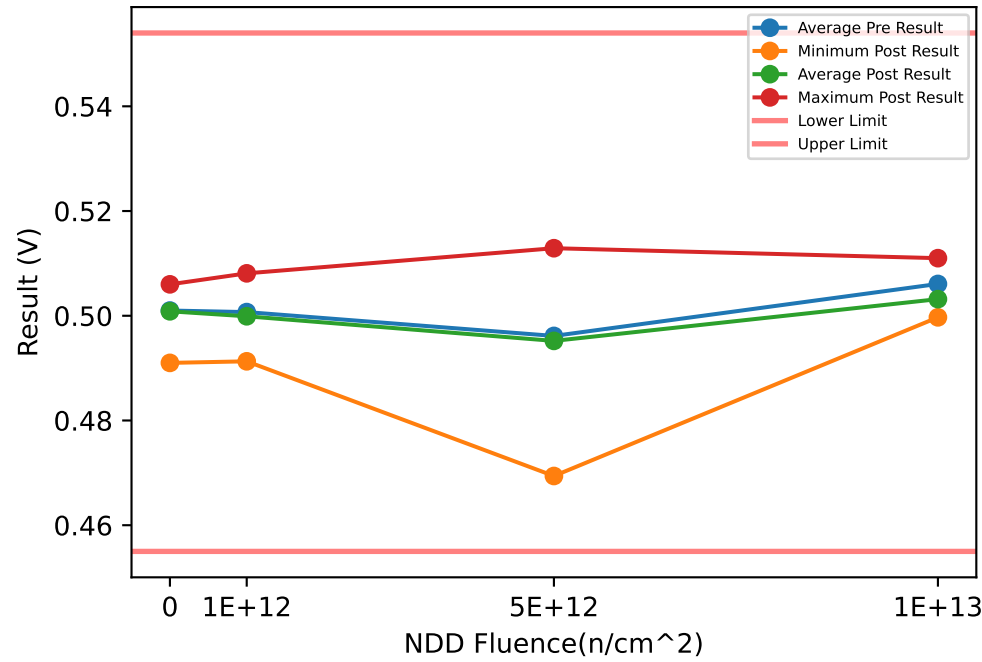


Test Statistics (V)

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	0.5951	0.60502	0.6102	0.0068883	0.5941	0.60492	0.6112	0.0075588	-0.001	-0.0001	0.001	0.00084063
1e+12	0.5947	0.60393	0.613	0.0091175	0.5956	0.60475	0.6137	0.0089348	0.0006	0.000825	0.0011	0.00022174
5e+12	0.5755	0.60047	0.6179	0.018233	0.5744	0.59967	0.6169	0.01842	-0.0011	-0.0008	-0.0001	0.00046904
1e+13	0.6071	0.61035	0.6173	0.0047374	0.6043	0.60725	0.6137	0.0044291	-0.0051	-0.0031	-0.001	0.0017146

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

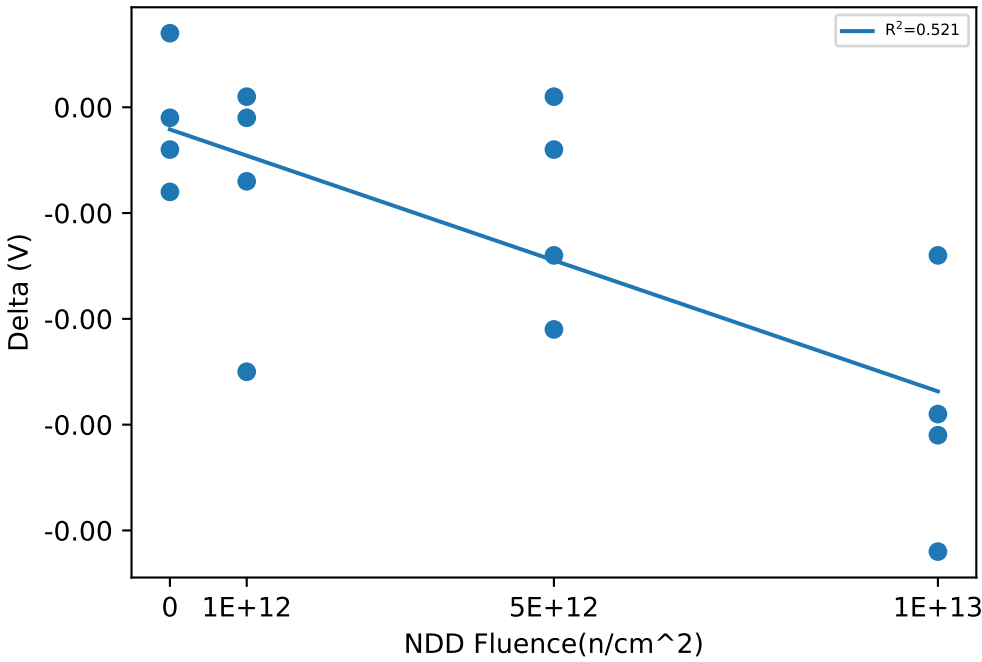
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.492	0.4913	-0.0007
266	1e+12	NDD	0.5106	0.5081	-0.0025
267	1e+12	NDD	0.4942	0.4941	-0.0001
288	1e+12	NDD	0.506	0.5061	0.0001
348	5e+12	NDD	0.4955	0.4941	-0.0014
353	5e+12	NDD	0.4715	0.4694	-0.0021
370	5e+12	NDD	0.5048	0.5044	-0.0004
377	5e+12	NDD	0.5128	0.5129	0.0001
389	1e+13	NDD	0.5045	0.5003	-0.0042
394	1e+13	NDD	0.5028	0.4997	-0.0031
395	1e+13	NDD	0.5139	0.511	-0.0029
571	1e+13	NDD	0.5031	0.5017	-0.0014
649	0	CORRELATION	0.5068	0.506	-0.0008
662	0	CORRELATION	0.4911	0.491	-0.0001
690	0	CORRELATION	0.5016	0.5023	0.0007
708	0	CORRELATION	0.5045	0.5041	-0.0004

NDD vs Post - Pre Exposure Delta

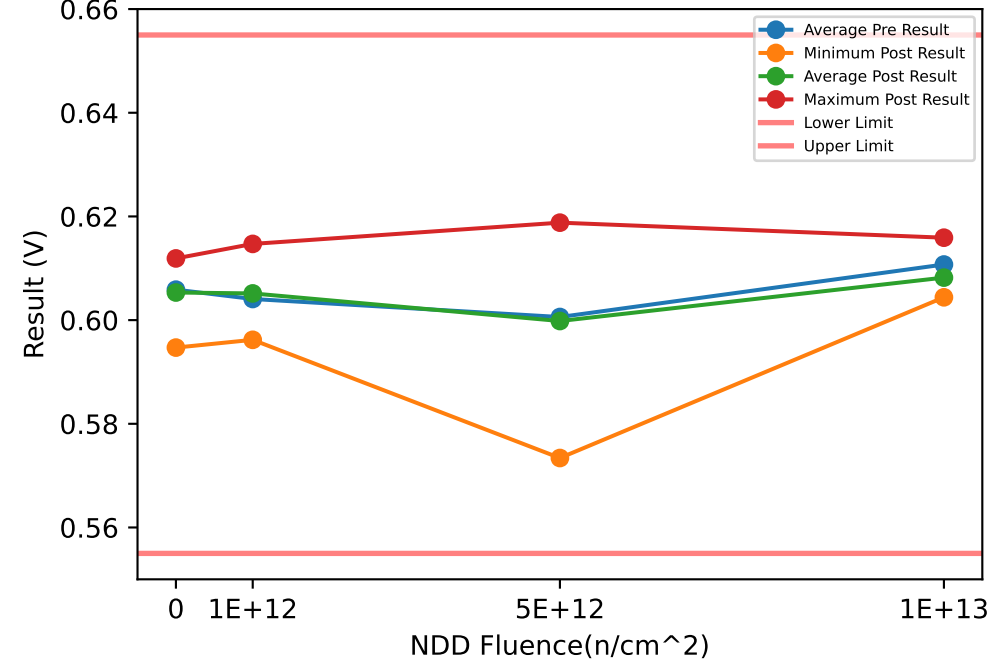


Test Statistics (V)

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	0.4911	0.501	0.5068	0.0069345	0.491	0.50085	0.506	0.0067382	-0.0008	-0.00015	0.0007	0.00063509
1e+12	0.492	0.5007	0.5106	0.0090192	0.4913	0.4999	0.5081	0.0084317	-0.0025	-0.0008	0.0001	0.0011832
5e+12	0.4715	0.49615	0.5128	0.017889	0.4694	0.4952	0.5129	0.018839	-0.0021	-0.00095	0.0001	0.00098826
1e+13	0.5028	0.50608	0.5139	0.005269	0.4997	0.50317	0.511	0.0052835	-0.0042	-0.0029	-0.0014	0.0011518

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

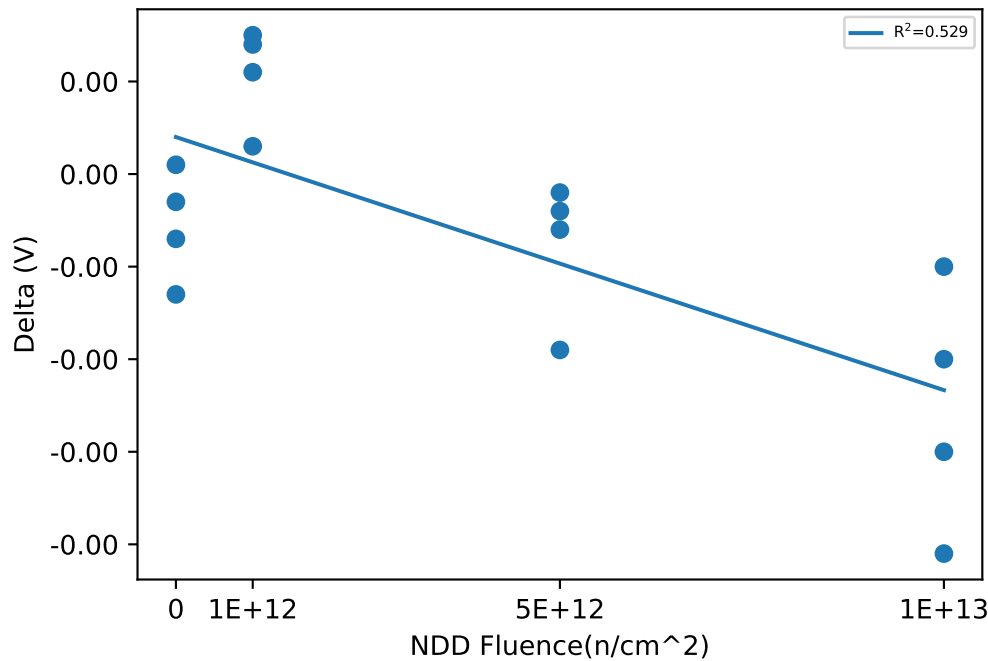
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.5947	0.5962	0.0015
266	1e+12	NDD	0.6133	0.6147	0.0014
267	1e+12	NDD	0.5979	0.599	0.0011
288	1e+12	NDD	0.6104	0.6107	0.0003
348	5e+12	NDD	0.6	0.5981	-0.0019
353	5e+12	NDD	0.574	0.5734	-0.0006
370	5e+12	NDD	0.6092	0.609	-0.0002
377	5e+12	NDD	0.6192	0.6188	-0.0004
389	1e+13	NDD	0.6097	0.6056	-0.0041
394	1e+13	NDD	0.6074	0.6044	-0.003
395	1e+13	NDD	0.6179	0.6159	-0.002
571	1e+13	NDD	0.6079	0.6069	-0.001
649	0	CORRELATION	0.6118	0.6119	0.0001
662	0	CORRELATION	0.5954	0.5947	-0.0007
690	0	CORRELATION	0.606	0.6057	-0.0003
708	0	CORRELATION	0.6103	0.609	-0.0013

NDD vs Post - Pre Exposure Delta

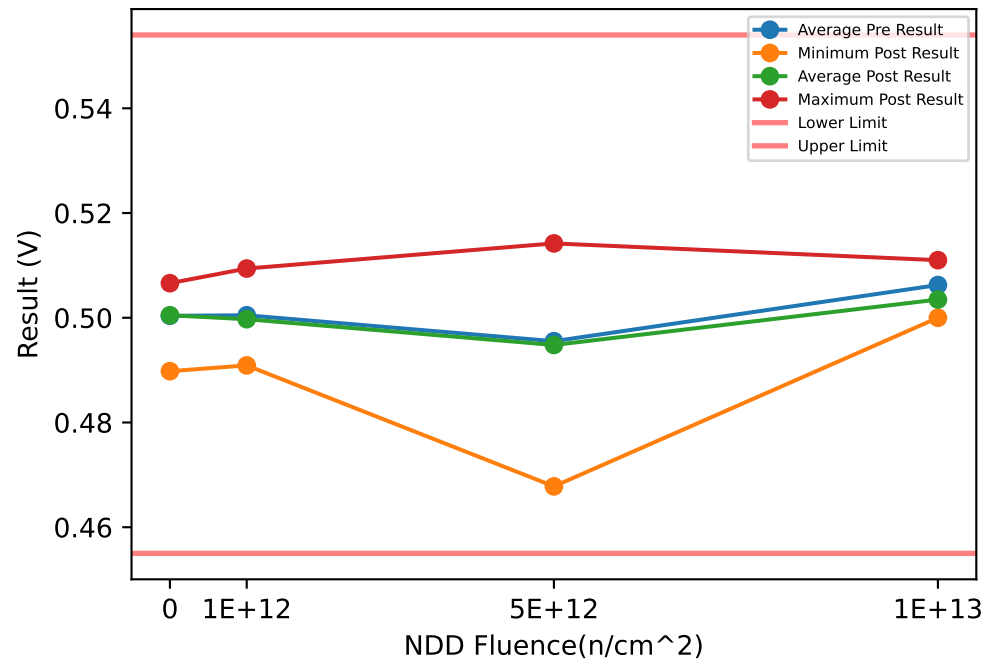


Test Statistics (V)

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	0.5954	0.60587	0.6118	0.0074033	0.5947	0.60533	0.6119	0.0075226	-0.0013	-0.00055	0.0001	0.00059722
1e+12	0.5947	0.60408	0.6133	0.0091493	0.5962	0.60515	0.6147	0.008943	0.0003	0.001075	0.0015	0.00054391
5e+12	0.574	0.6006	0.6192	0.019389	0.5734	0.59983	0.6188	0.01954	-0.0019	-0.000775	-0.0002	0.00076757
1e+13	0.6074	0.61072	0.6179	0.0048842	0.6044	0.6082	0.6159	0.0052339	-0.0041	-0.002525	-0.001	0.0013301

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

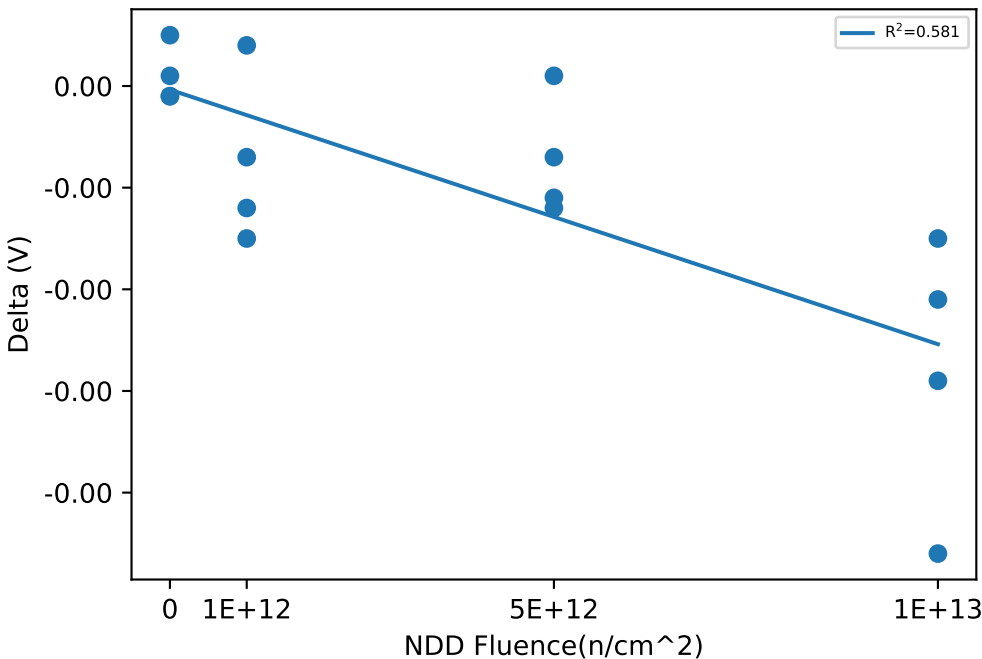
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.4924	0.4909	-0.0015
266	1e+12	NDD	0.5106	0.5094	-0.0012
267	1e+12	NDD	0.4942	0.4935	-0.0007
288	1e+12	NDD	0.5047	0.5051	0.0004
348	5e+12	NDD	0.4945	0.4934	-0.0011
353	5e+12	NDD	0.469	0.4678	-0.0012
370	5e+12	NDD	0.5045	0.5038	-0.0007
377	5e+12	NDD	0.5141	0.5142	0.0001
389	1e+13	NDD	0.5055	0.5009	-0.0046
394	1e+13	NDD	0.5021	0.5	-0.0021
395	1e+13	NDD	0.5139	0.511	-0.0029
571	1e+13	NDD	0.5035	0.502	-0.0015
649	0	CORRELATION	0.5065	0.5066	0.0001
662	0	CORRELATION	0.4899	0.4898	-0.0001
690	0	CORRELATION	0.5009	0.5014	0.0005
708	0	CORRELATION	0.5042	0.5041	-0.0001

NDD vs Post - Pre Exposure Delta

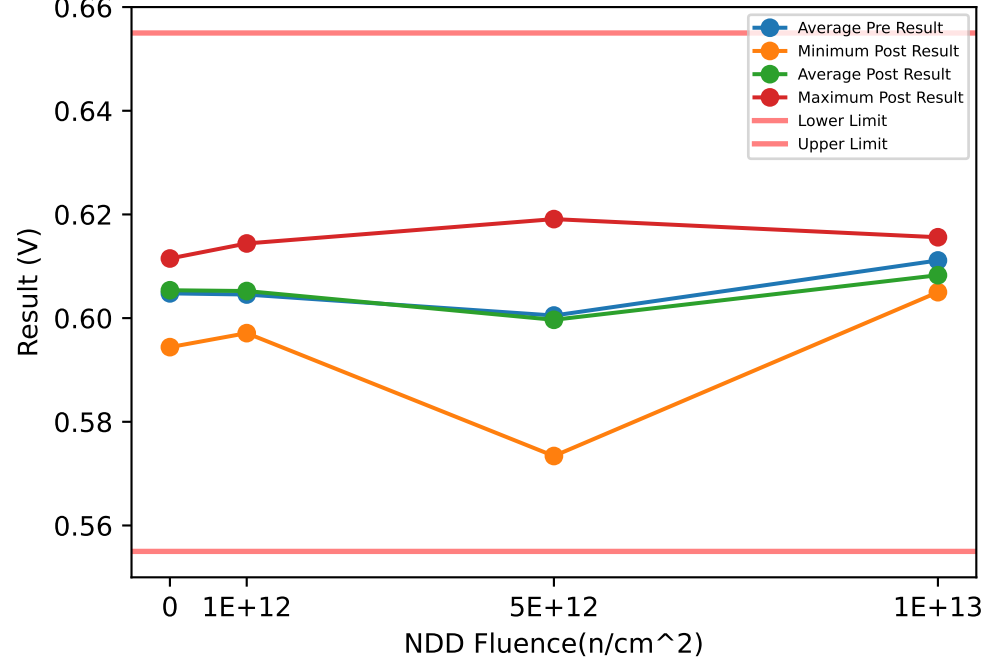


Test Statistics (V)

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	0.4899	0.50038	0.5065	0.0073518	0.4898	0.50048	0.5066	0.0074267	-0.0001	0.0001	0.0005	0.00028284
1e+12	0.4924	0.50048	0.5106	0.0086592	0.4909	0.49972	0.5094	0.008928	-0.0015	-0.00075	0.0004	0.00083467
5e+12	0.469	0.49552	0.5141	0.01941	0.4678	0.4948	0.5142	0.019902	-0.0012	-0.000725	0.0001	0.0005909
1e+13	0.5021	0.50625	0.5139	0.0052874	0.5	0.50348	0.511	0.0050829	-0.0046	-0.002775	-0.0015	0.0013451

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

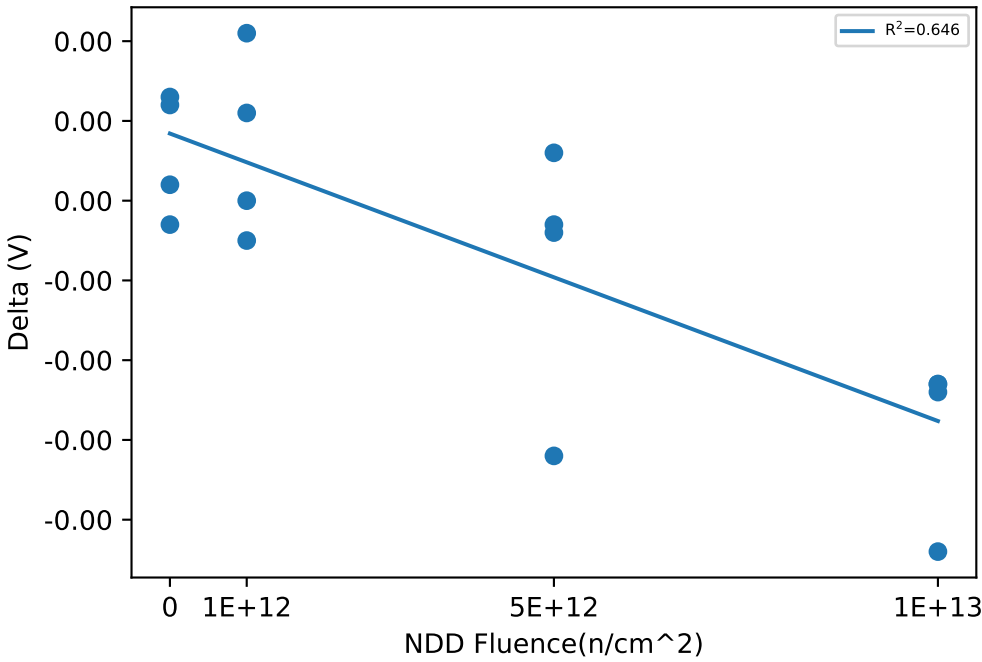
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.595	0.5971	0.0021
266	1e+12	NDD	0.6133	0.6144	0.0011
267	1e+12	NDD	0.5992	0.5987	-0.0005
288	1e+12	NDD	0.6107	0.6107	0
348	5e+12	NDD	0.6	0.5968	-0.0032
353	5e+12	NDD	0.5737	0.5734	-0.0003
370	5e+12	NDD	0.6088	0.6094	0.0006
377	5e+12	NDD	0.6195	0.6191	-0.0004
389	1e+13	NDD	0.61	0.6056	-0.0044
394	1e+13	NDD	0.6074	0.605	-0.0024
395	1e+13	NDD	0.6179	0.6156	-0.0023
571	1e+13	NDD	0.6092	0.6069	-0.0023
649	0	CORRELATION	0.6102	0.6115	0.0013
662	0	CORRELATION	0.5932	0.5944	0.0012
690	0	CORRELATION	0.606	0.6057	-0.0003
708	0	CORRELATION	0.6097	0.6099	0.0002

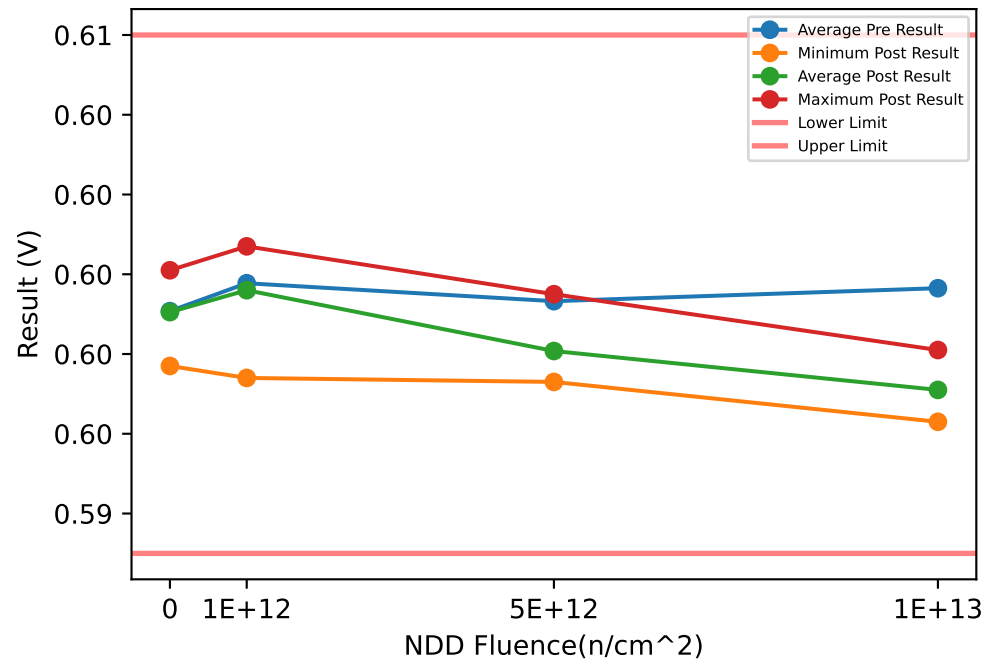
NDD vs Post - Pre Exposure Delta



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	0.5932	0.60477	0.6102	0.0079408	0.5944	0.60537	0.6115	0.0077147	-0.0003	0.0006	0.0013	0.00077889
1e+12	0.595	0.60455	0.6133	0.0088357	0.5971	0.60523	0.6144	0.0086168	-0.0005	0.000675	0.0021	0.0011615
5e+12	0.5737	0.6005	0.6195	0.019565	0.5734	0.59967	0.6191	0.019753	-0.0032	-0.000825	0.0006	0.001646
1e+13	0.6074	0.61113	0.6179	0.0046457	0.605	0.60828	0.6156	0.0049473	-0.0044	-0.00285	-0.0023	0.0010344

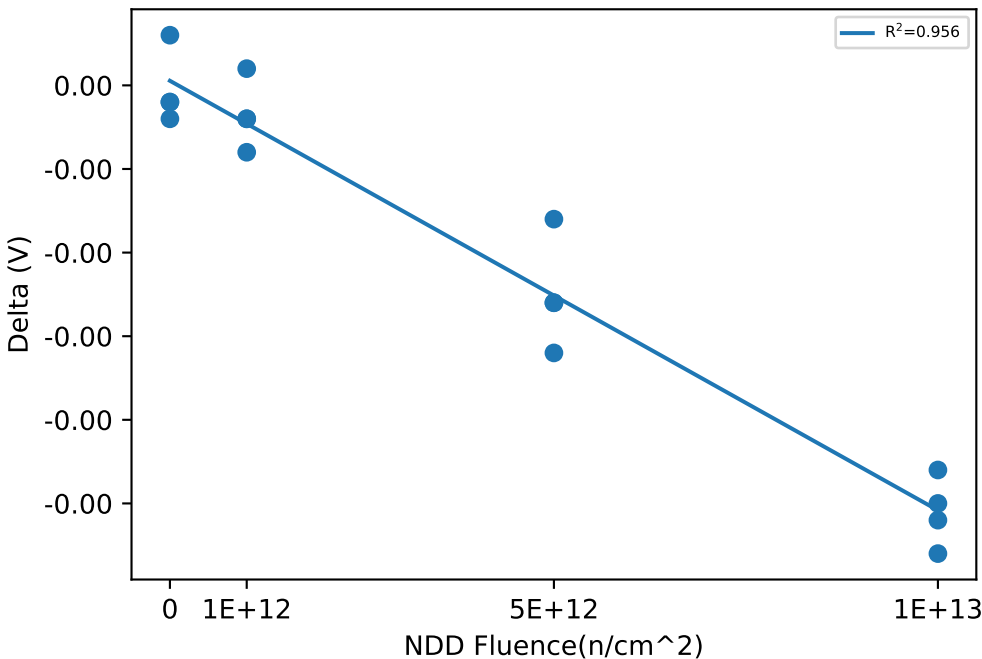
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6005	0.6003	-0.0002
266	1e+12	NDD	0.5978	0.5974	-0.0004
267	1e+12	NDD	0.5999	0.6	0.0001
288	1e+12	NDD	0.6009	0.6007	-0.0002
348	5e+12	NDD	0.5994	0.5981	-0.0013
353	5e+12	NDD	0.599	0.5974	-0.0016
370	5e+12	NDD	0.6003	0.5995	-0.0008
377	5e+12	NDD	0.5986	0.5973	-0.0013
389	1e+13	NDD	0.6006	0.5981	-0.0025
394	1e+13	NDD	0.5999	0.5976	-0.0023
395	1e+13	NDD	0.599	0.5964	-0.0026
571	1e+13	NDD	0.5991	0.5963	-0.0028
649	0	CORRELATION	0.599	0.5989	-0.0001
662	0	CORRELATION	0.5974	0.5977	0.0003
690	0	CORRELATION	0.6003	0.6001	-0.0002
708	0	CORRELATION	0.5996	0.5995	-0.0001

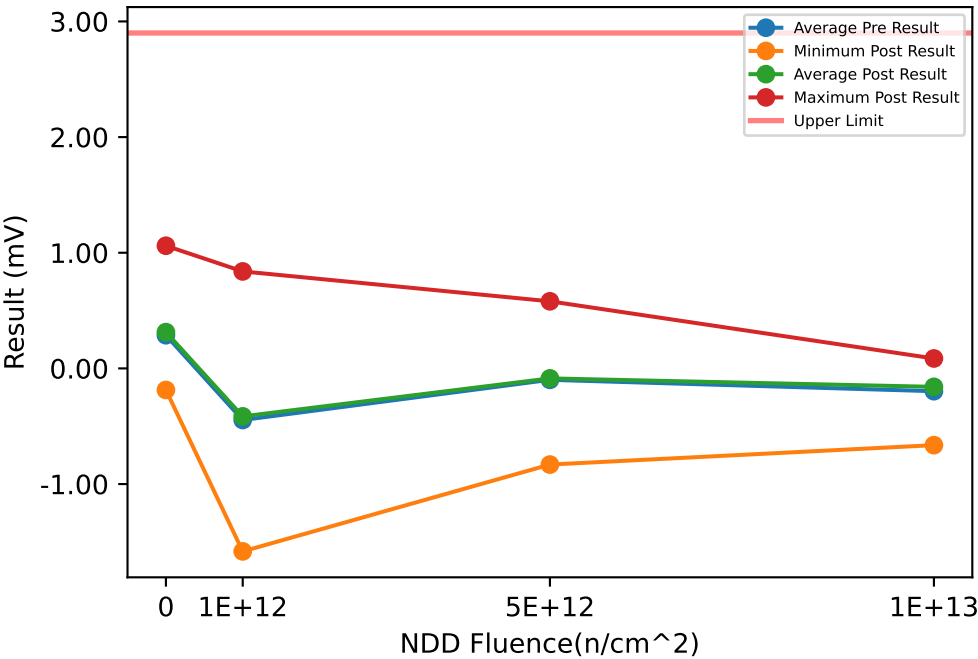
NDD vs Post - Pre Exposure Delta



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	0.5974	0.59908	0.6003	0.0012366	0.5977	0.59905	0.6001	0.0010247	-0.0002	-2.5e-05	0.0003	0.00022174
1e+12	0.5978	0.59977	0.6009	0.0013793	0.5974	0.5996	0.6007	0.0014944	-0.0004	-0.000175	0.0001	0.00020616
5e+12	0.5986	0.59932	0.6003	0.00072744	0.5973	0.59808	0.5995	0.0010145	-0.0016	-0.00125	-0.0008	0.00033166
1e+13	0.599	0.59965	0.6006	0.00075056	0.5963	0.5971	0.5981	0.00089069	-0.0028	-0.00255	-0.0023	0.00020817

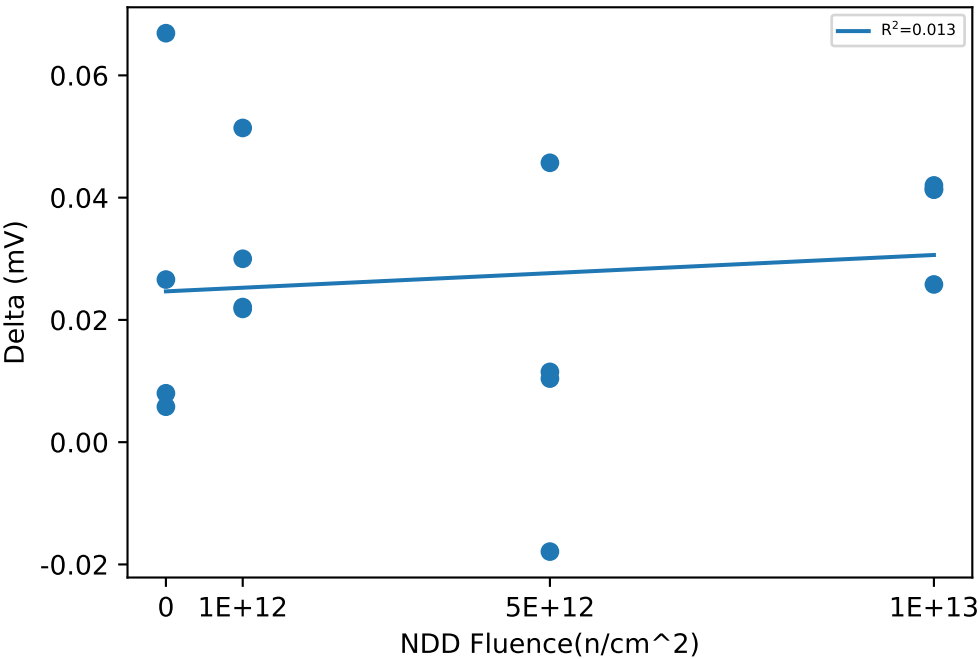
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	-1.6122	-1.5822	0.03
266	1e+12	NDD	0.7871	0.8385	0.0514
267	1e+12	NDD	0.0657	0.0878	0.0221
288	1e+12	NDD	-1.0253	-1.0035	0.0218
348	5e+12	NDD	0.0475	0.0932	0.0457
353	5e+12	NDD	-0.1988	-0.1873	0.0115
370	5e+12	NDD	-0.8135	-0.8314	-0.0179
377	5e+12	NDD	0.5697	0.5801	0.0104
389	1e+13	NDD	-0.705	-0.6636	0.0414
394	1e+13	NDD	-0.1627	-0.1207	0.042
395	1e+13	NDD	0.0446	0.0859	0.0413
571	1e+13	NDD	0.0348	0.0606	0.0258
649	0	CORRELATION	0.0056	0.0136	0.008
662	0	CORRELATION	1.0339	1.0605	0.0266
690	0	CORRELATION	-0.1923	-0.1865	0.0058
708	0	CORRELATION	0.3007	0.3676	0.0669

NDD vs Post - Pre Exposure Delta

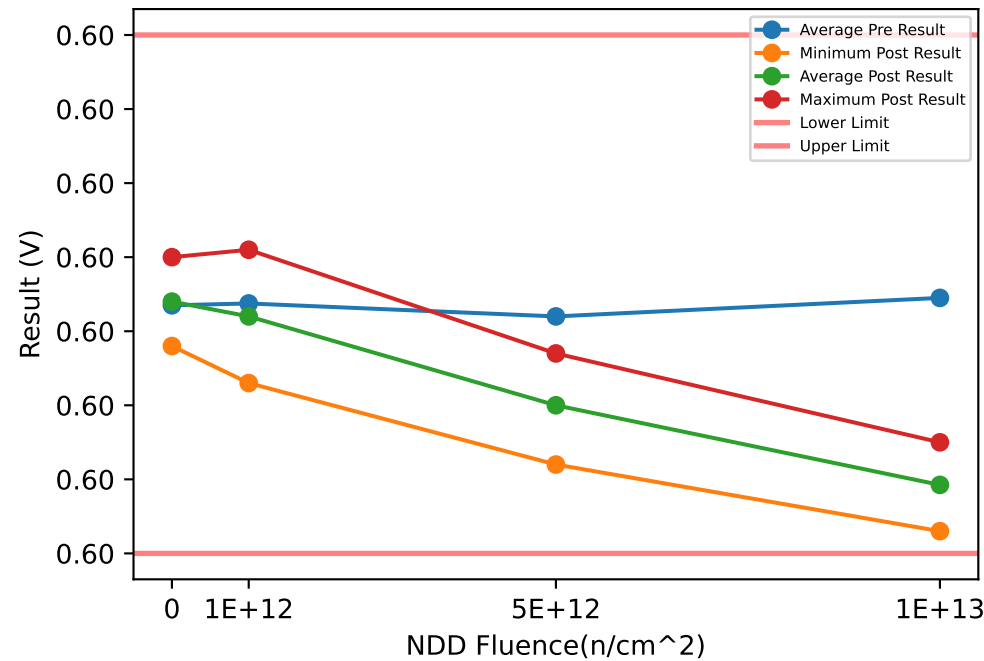


Test Statistics (mV)

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	-0.1923	0.28698	1.0339	0.53758	-0.1865	0.3138	1.0605	0.54799	0.0058	0.026825	0.0669	0.028299
1e+12	-1.6122	-0.44618	0.7871	1.0767	-1.5822	-0.41485	0.8385	1.0852	0.0218	0.031325	0.0514	0.013911
5e+12	-0.8135	-0.098775	0.5697	0.57419	-0.8314	-0.08635	0.5801	0.58926	-0.0179	0.012425	0.0457	0.026024
1e+13	-0.705	-0.19708	0.0446	0.35182	-0.6636	-0.15945	0.0859	0.34847	0.0258	0.037625	0.042	0.0078894

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

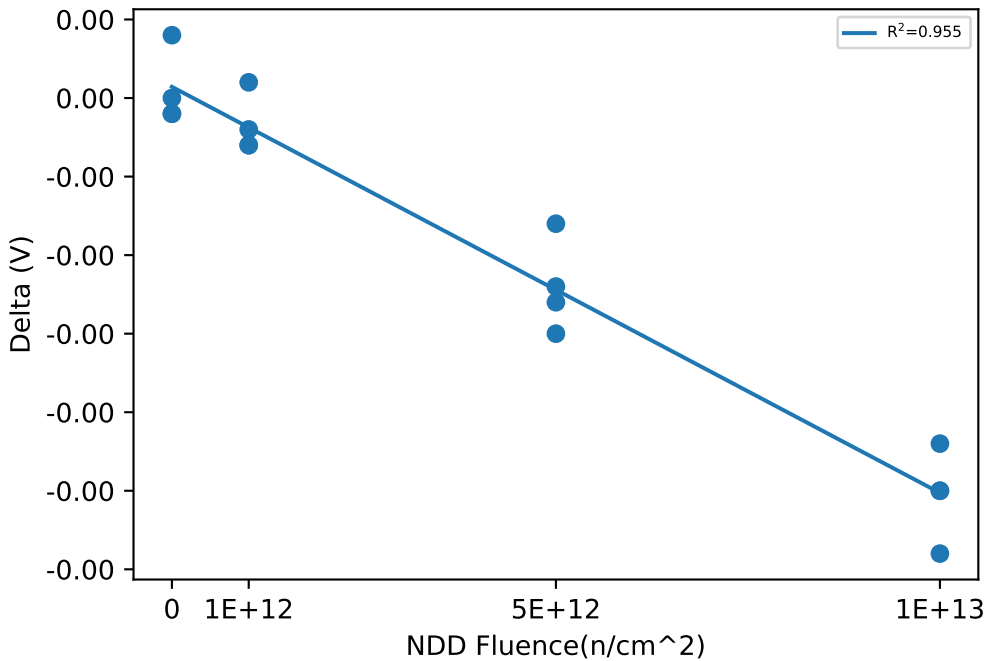
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.599	0.5987	-0.0003
266	1e+12	NDD	0.5986	0.5983	-0.0003
267	1e+12	NDD	0.6	0.6001	0.0001
288	1e+12	NDD	0.5999	0.5997	-0.0002
348	5e+12	NDD	0.5994	0.5982	-0.0012
353	5e+12	NDD	0.5987	0.5972	-0.0015
370	5e+12	NDD	0.5995	0.5987	-0.0008
377	5e+12	NDD	0.5992	0.5979	-0.0013
389	1e+13	NDD	0.5999	0.5974	-0.0025
394	1e+13	NDD	0.5997	0.5975	-0.0022
395	1e+13	NDD	0.599	0.5965	-0.0025
571	1e+13	NDD	0.5992	0.5963	-0.0029
649	0	CORRELATION	0.599	0.599	0
662	0	CORRELATION	0.5984	0.5988	0.0004
690	0	CORRELATION	0.6001	0.6	-0.0001
708	0	CORRELATION	0.5999	0.5998	-0.0001

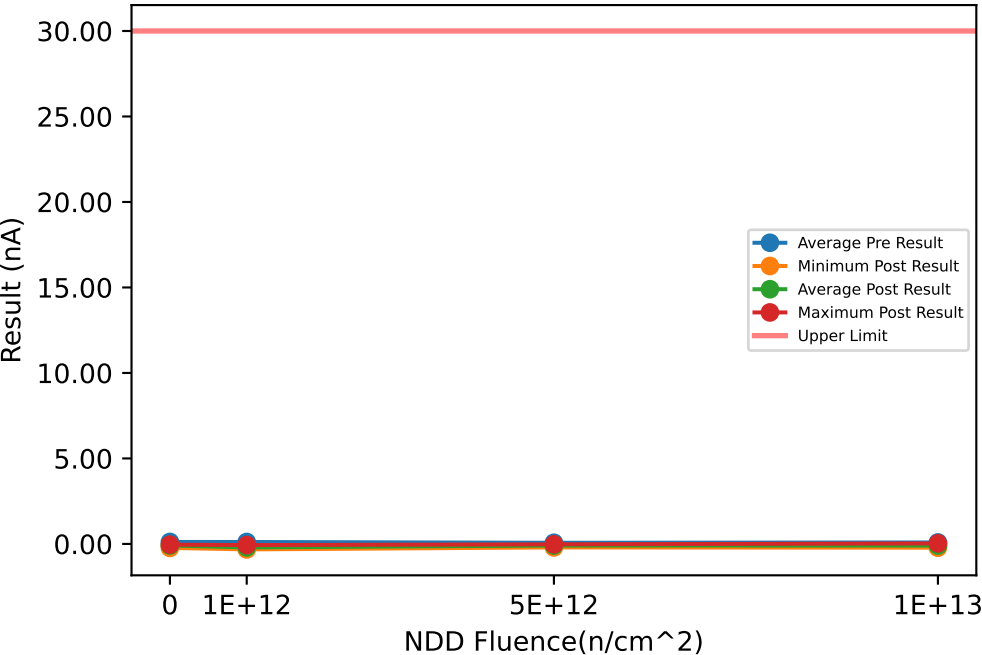
NDD vs Post - Pre Exposure Delta



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	0.5984	0.59935	0.6001	0.00079373	0.5988	0.5994	0.6	0.00058878	-0.0001	5e-05	0.0004	0.00023805
1e+12	0.5986	0.59937	0.6	0.00068496	0.5983	0.5992	0.6001	0.00084063	-0.0003	-0.000175	0.0001	0.0001893
5e+12	0.5987	0.5992	0.5995	0.0003559	0.5972	0.598	0.5987	0.00062716	-0.0015	-0.0012	-0.0008	0.00029439
1e+13	0.599	0.59945	0.5999	0.00042032	0.5963	0.59693	0.5975	0.00061305	-0.0029	-0.002525	-0.0022	0.00028723

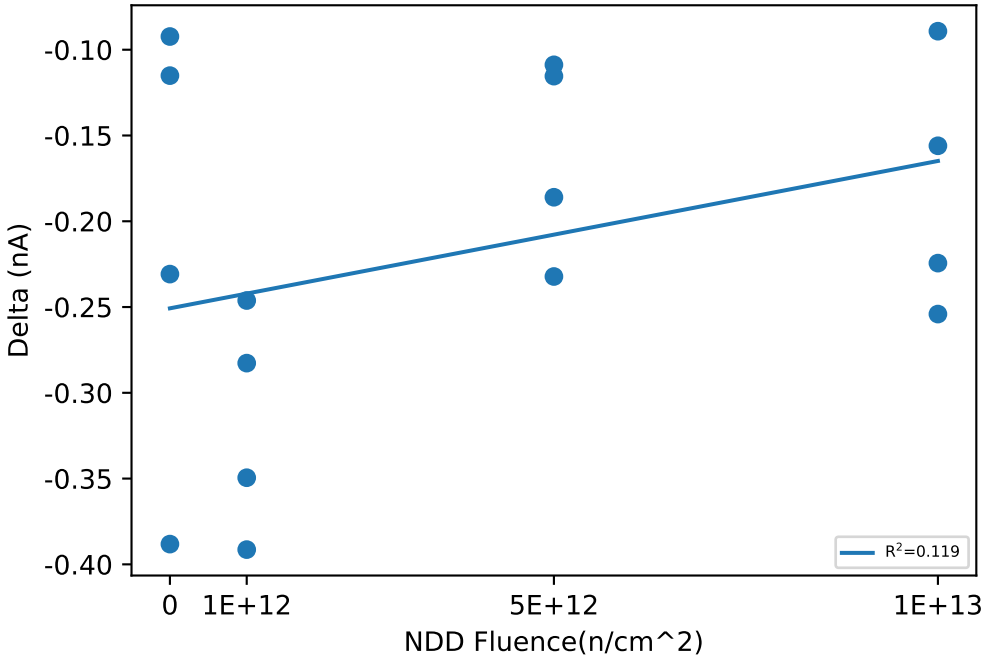
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.0716	-0.3198	-0.3914
266	1e+12	NDD	0.1794	-0.0668	-0.2462
267	1e+12	NDD	0.108	-0.1747	-0.2827
288	1e+12	NDD	0.096	-0.2535	-0.3495
348	5e+12	NDD	0.0279	-0.2043	-0.2322
353	5e+12	NDD	0.0857	-0.0231	-0.1088
370	5e+12	NDD	0.0924	-0.0936	-0.186
377	5e+12	NDD	0.0648	-0.0506	-0.1154
389	1e+13	NDD	0.0342	-0.2199	-0.2541
394	1e+13	NDD	0.1482	-0.0762	-0.2244
395	1e+13	NDD	0.1205	0.0313	-0.0892
571	1e+13	NDD	0.043	-0.113	-0.156
649	0	CORRELATION	0.0732	-0.0419	-0.1151
662	0	CORRELATION	0.0455	-0.0468	-0.0923
690	0	CORRELATION	0.1895	-0.0413	-0.2308
708	0	CORRELATION	0.1558	-0.2324	-0.3882

NDD vs Post - Pre Exposure Delta

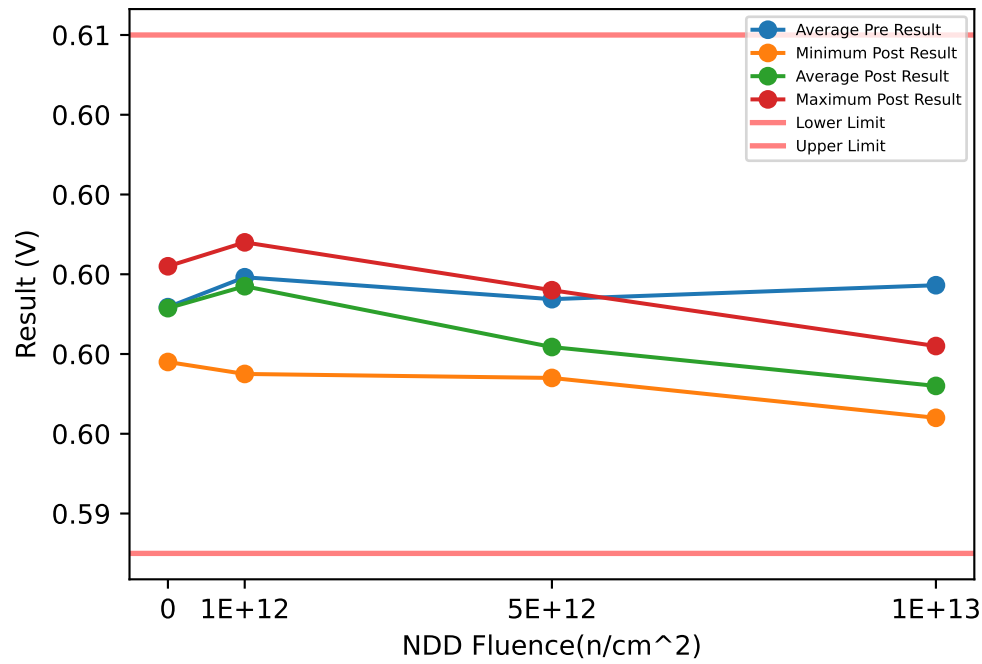


Test Statistics (nA)

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	0.0455	0.116	0.1895	0.067795	-0.2324	-0.0906	-0.0413	0.094565	-0.3882	-0.2066	-0.0923	0.1354
1e+12	0.0716	0.11375	0.1794	0.046313	-0.3198	-0.2037	-0.0668	0.10885	-0.3914	-0.31745	-0.2462	0.065268
5e+12	0.0279	0.0677	0.0924	0.02902	-0.2043	-0.0929	-0.0231	0.079732	-0.2322	-0.1606	-0.1088	0.059155
1e+13	0.0342	0.086475	0.1482	0.05654	-0.2199	-0.09445	0.0313	0.10365	-0.2541	-0.18093	-0.0892	0.073665

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

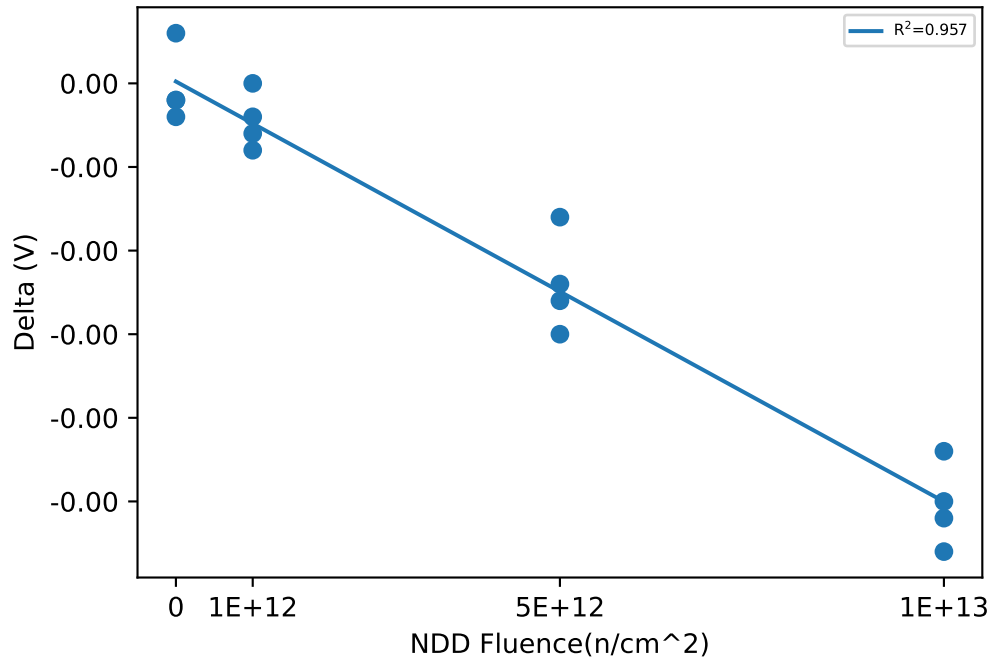
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6007	0.6004	-0.0003
266	1e+12	NDD	0.5979	0.5975	-0.0004
267	1e+12	NDD	0.6001	0.6001	0
288	1e+12	NDD	0.601	0.6008	-0.0002
348	5e+12	NDD	0.5994	0.5982	-0.0012
353	5e+12	NDD	0.599	0.5975	-0.0015
370	5e+12	NDD	0.6004	0.5996	-0.0008
377	5e+12	NDD	0.5987	0.5974	-0.0013
389	1e+13	NDD	0.6007	0.5982	-0.0025
394	1e+13	NDD	0.5999	0.5977	-0.0022
395	1e+13	NDD	0.5991	0.5965	-0.0026
571	1e+13	NDD	0.5992	0.5964	-0.0028
649	0	CORRELATION	0.5991	0.599	-0.0001
662	0	CORRELATION	0.5975	0.5978	0.0003
690	0	CORRELATION	0.6004	0.6002	-0.0002
708	0	CORRELATION	0.5997	0.5996	-0.0001

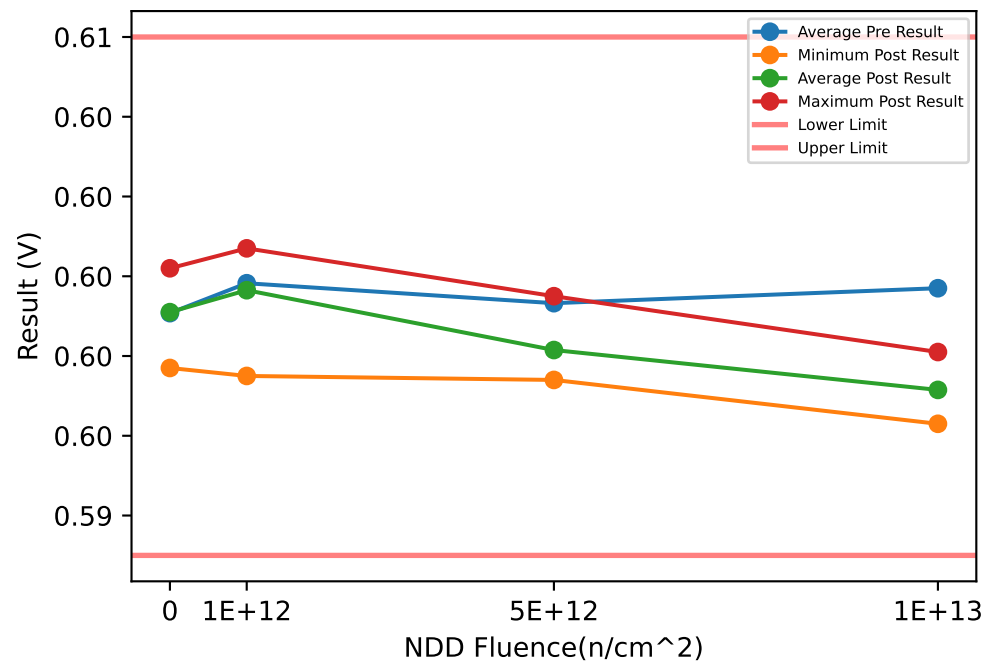
NDD vs Post - Pre Exposure Delta



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	0.5975	0.59918	0.6004	0.0012366	0.5978	0.59915	0.6002	0.0010247	-0.0002	-2.5e-05	0.0003	0.00022174
1e+12	0.5979	0.59993	0.601	0.0014009	0.5975	0.5997	0.6008	0.0014944	-0.0004	-0.000225	0	0.00017078
5e+12	0.5987	0.59937	0.6004	0.00074106	0.5974	0.59818	0.5996	0.0010145	-0.0015	-0.0012	-0.0008	0.00029439
1e+13	0.5991	0.59972	0.6007	0.00074106	0.5964	0.5972	0.5982	0.00089069	-0.0028	-0.002525	-0.0022	0.00025

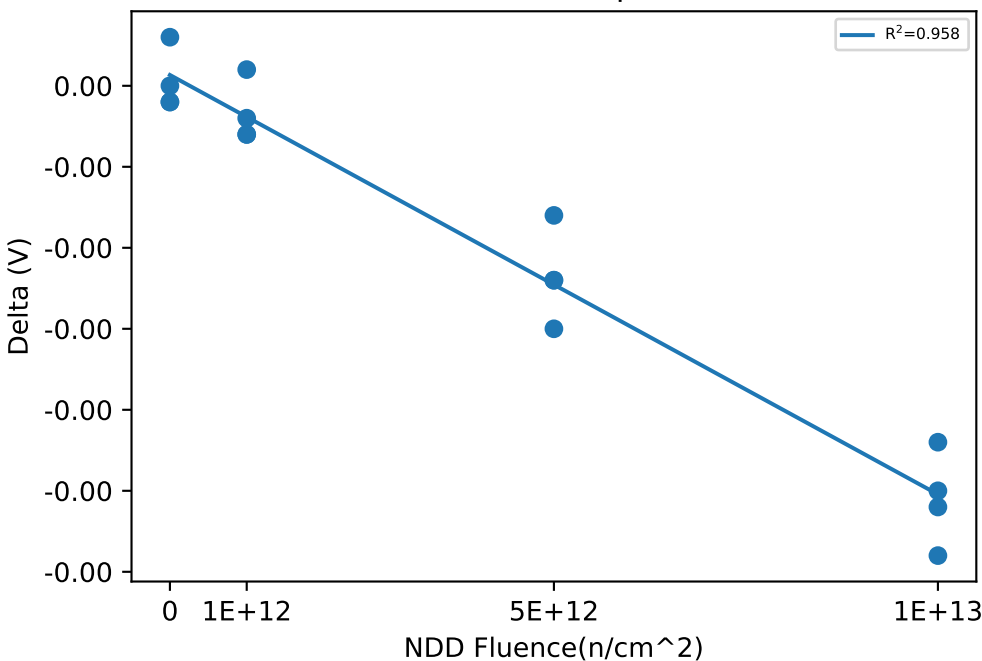
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6006	0.6003	-0.0003
266	1e+12	NDD	0.5978	0.5975	-0.0003
267	1e+12	NDD	0.6	0.6001	0.0001
288	1e+12	NDD	0.6009	0.6007	-0.0002
348	5e+12	NDD	0.5994	0.5982	-0.0012
353	5e+12	NDD	0.599	0.5975	-0.0015
370	5e+12	NDD	0.6003	0.5995	-0.0008
377	5e+12	NDD	0.5986	0.5974	-0.0012
389	1e+13	NDD	0.6007	0.5981	-0.0026
394	1e+13	NDD	0.5999	0.5977	-0.0022
395	1e+13	NDD	0.599	0.5965	-0.0025
571	1e+13	NDD	0.5992	0.5963	-0.0029
649	0	CORRELATION	0.599	0.599	0
662	0	CORRELATION	0.5974	0.5977	0.0003
690	0	CORRELATION	0.6003	0.6002	-0.0001
708	0	CORRELATION	0.5996	0.5995	-0.0001

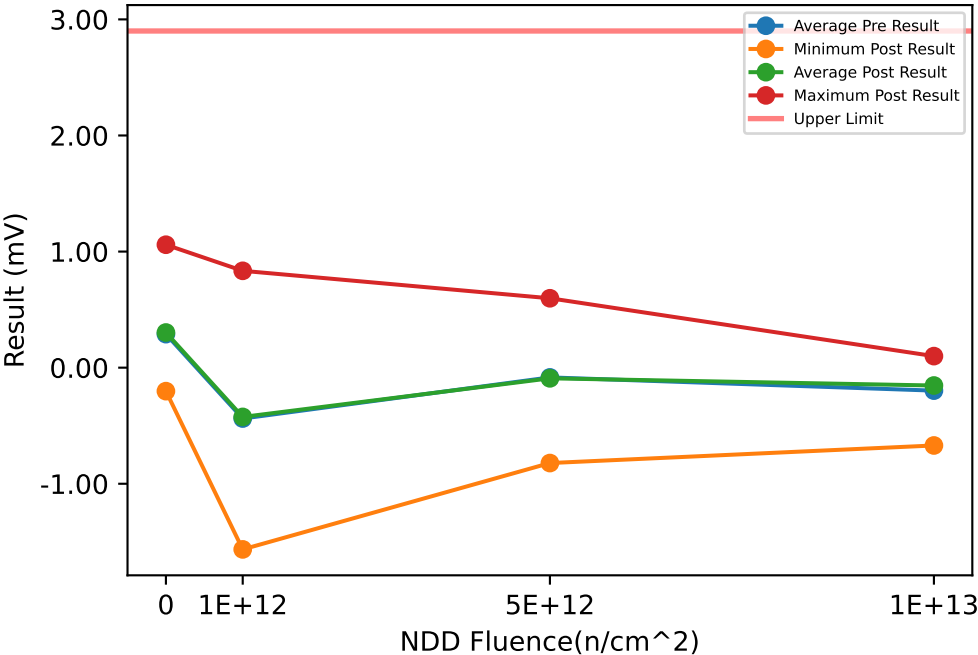
NDD vs Post - Pre Exposure Delta



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	0.5974	0.59908	0.6003	0.0012366	0.5977	0.5991	0.6002	0.0010551	-0.0001	2.5e-05	0.0003	0.0001893
1e+12	0.5978	0.59983	0.6009	0.0014009	0.5975	0.59965	0.6007	0.0014549	-0.0003	-0.000175	0.0001	0.0001893
5e+12	0.5986	0.59932	0.6003	0.00072744	0.5974	0.59815	0.5995	0.00096782	-0.0015	-0.001175	-0.0008	0.00028723
1e+13	0.599	0.5997	0.6007	0.00077028	0.5963	0.59715	0.5981	0.00088506	-0.0029	-0.00255	-0.0022	0.00028868

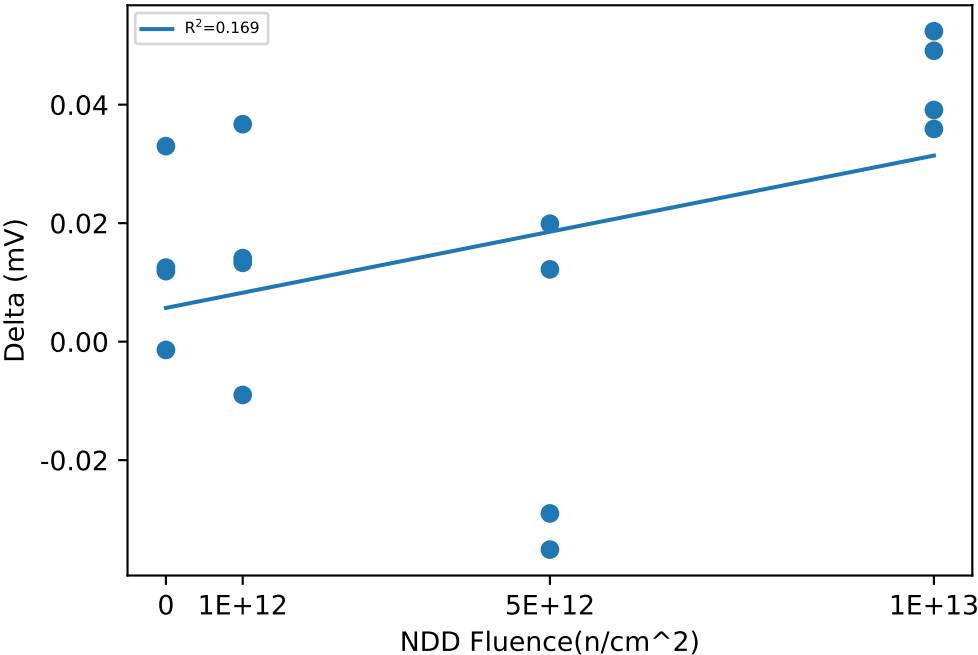
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	-1.5795	-1.5654	0.0141
266	1e+12	NDD	0.7975	0.8342	0.0367
267	1e+12	NDD	0.0652	0.0562	-0.009
288	1e+12	NDD	-1.0355	-1.0222	0.0133
348	5e+12	NDD	0.0629	0.0828	0.0199
353	5e+12	NDD	-0.1973	-0.2263	-0.029
370	5e+12	NDD	-0.7865	-0.8216	-0.0351
377	5e+12	NDD	0.5856	0.5978	0.0122
389	1e+13	NDD	-0.7226	-0.6702	0.0524
394	1e+13	NDD	-0.152	-0.1161	0.0359
395	1e+13	NDD	0.0504	0.0995	0.0491
571	1e+13	NDD	0.0331	0.0722	0.0391
649	0	CORRELATION	-0.0027	-0.0041	-0.0014
662	0	CORRELATION	1.0465	1.059	0.0125
690	0	CORRELATION	-0.2142	-0.2023	0.0119
708	0	CORRELATION	0.3256	0.3586	0.033

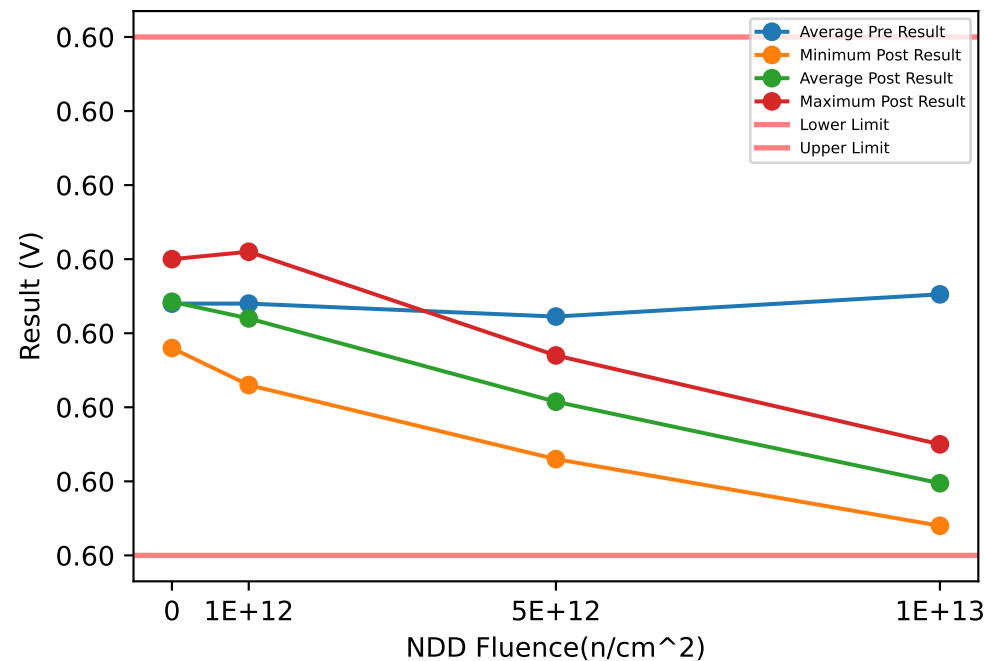
NDD vs Post - Pre Exposure Delta



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	-0.2142	0.2888	1.0465	0.5518	-0.2023	0.3028	1.059	0.55506	-0.0014	0.014	0.033	0.014199
1e+12	-1.5795	-0.43807	0.7975	1.0708	-1.5654	-0.4243	0.8342	1.0761	-0.009	0.013775	0.0367	0.01866
5e+12	-0.7865	-0.083825	0.5856	0.57046	-0.8216	-0.091825	0.5978	0.5935	-0.0351	-0.008	0.0199	0.028059
1e+13	-0.7226	-0.19778	0.0504	0.36168	-0.6702	-0.15365	0.0995	0.35746	0.0359	0.044125	0.0524	0.0078767

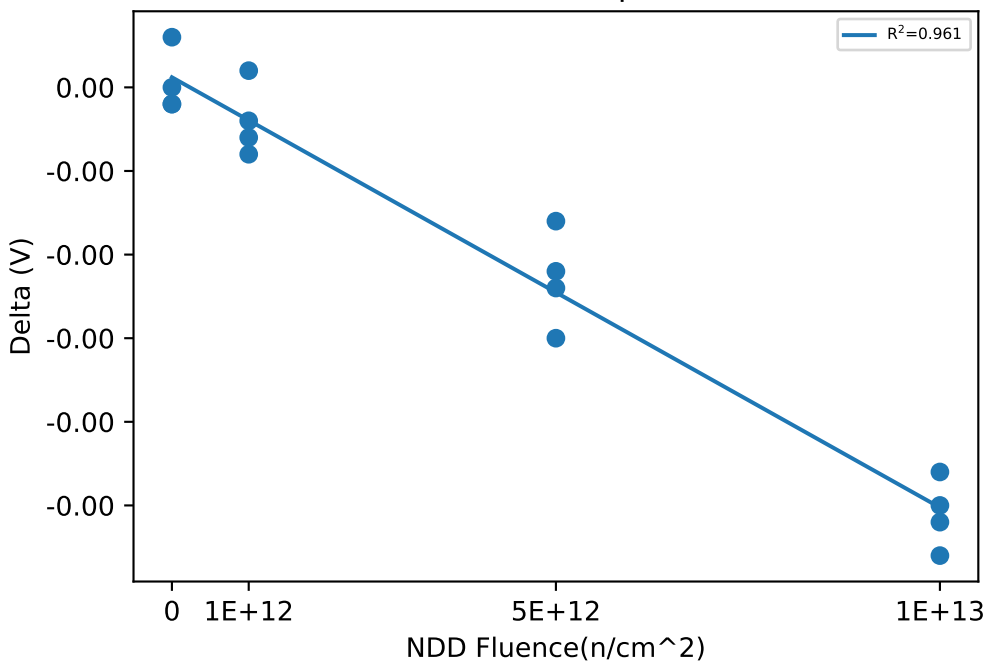
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.599	0.5987	-0.0003
266	1e+12	NDD	0.5987	0.5983	-0.0004
267	1e+12	NDD	0.6	0.6001	0.0001
288	1e+12	NDD	0.5999	0.5997	-0.0002
348	5e+12	NDD	0.5994	0.5983	-0.0011
353	5e+12	NDD	0.5988	0.5973	-0.0015
370	5e+12	NDD	0.5995	0.5987	-0.0008
377	5e+12	NDD	0.5992	0.598	-0.0012
389	1e+13	NDD	0.6	0.5974	-0.0026
394	1e+13	NDD	0.5998	0.5975	-0.0023
395	1e+13	NDD	0.5991	0.5966	-0.0025
571	1e+13	NDD	0.5992	0.5964	-0.0028
649	0	CORRELATION	0.599	0.599	0
662	0	CORRELATION	0.5985	0.5988	0.0003
690	0	CORRELATION	0.6001	0.6	-0.0001
708	0	CORRELATION	0.6	0.5999	-0.0001

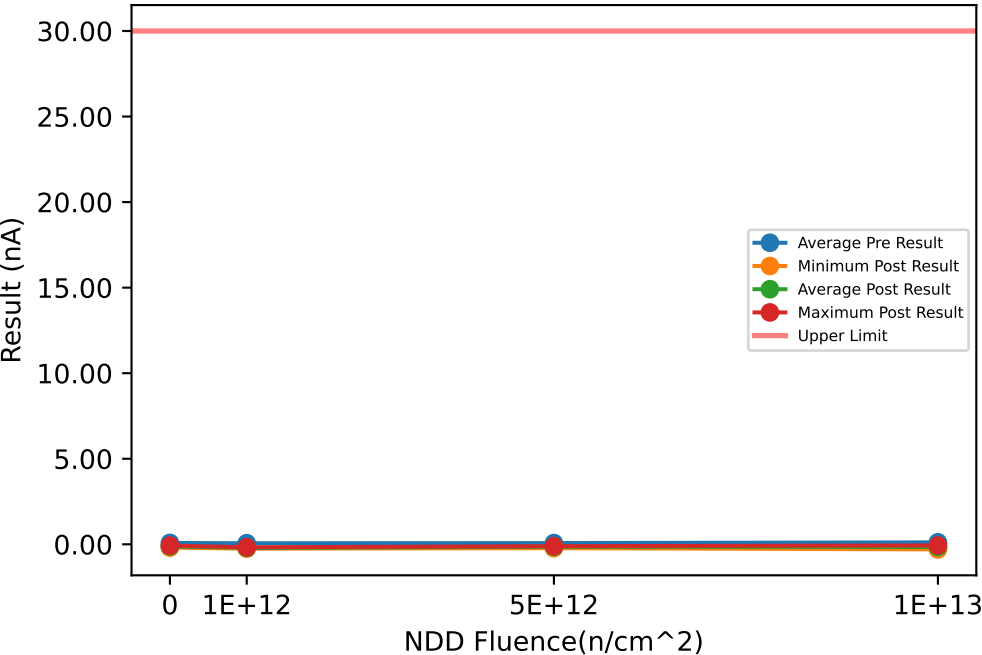
NDD vs Post - Pre Exposure Delta



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	0.5985	0.5994	0.6001	0.00077889	0.5988	0.59942	0.6	0.00061305	-0.0001	2.5e-05	0.0003	0.0001893
1e+12	0.5987	0.5994	0.6	0.00064807	0.5983	0.5992	0.6001	0.00084063	-0.0004	-0.0002	0.0001	0.00021602
5e+12	0.5988	0.59923	0.5995	0.00030957	0.5973	0.59808	0.5987	0.0005909	-0.0015	-0.00115	-0.0008	0.00028868
1e+13	0.5991	0.59952	0.6	0.00044253	0.5964	0.59698	0.5975	0.00055603	-0.0028	-0.00255	-0.0023	0.00020817

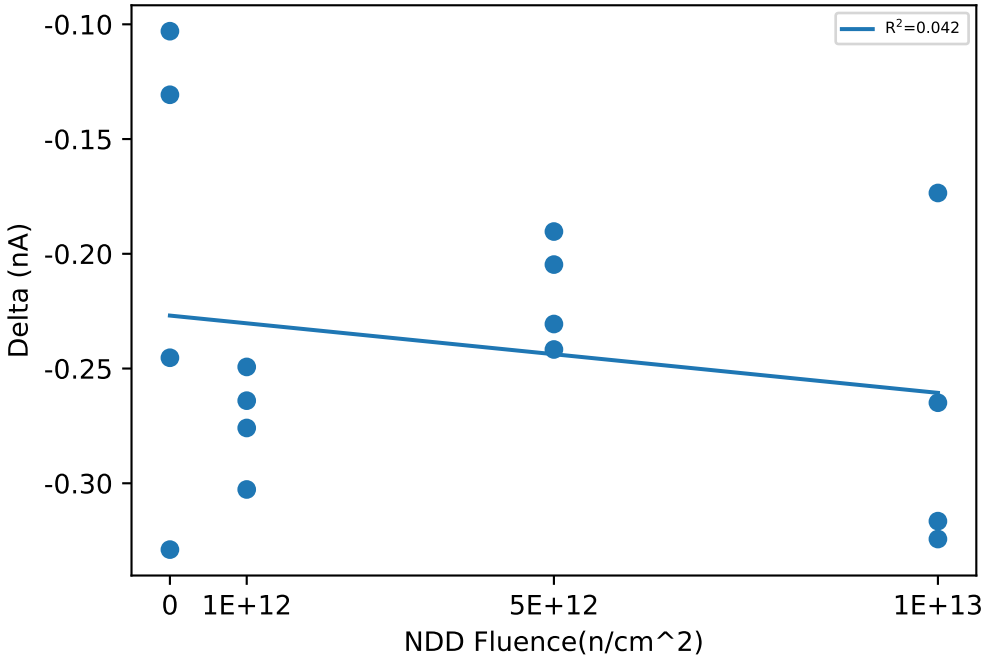
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.0217	-0.2542	-0.2759
266	1e+12	NDD	0.0608	-0.1885	-0.2493
267	1e+12	NDD	0.0893	-0.1747	-0.264
288	1e+12	NDD	0.0711	-0.2316	-0.3027
348	5e+12	NDD	0.0155	-0.2262	-0.2417
353	5e+12	NDD	0.1107	-0.1199	-0.2306
370	5e+12	NDD	0.0955	-0.1092	-0.2047
377	5e+12	NDD	0.0648	-0.1255	-0.1903
389	1e+13	NDD	0.0186	-0.2979	-0.3165
394	1e+13	NDD	0.1232	-0.1417	-0.2649
395	1e+13	NDD	0.1049	-0.0686	-0.1735
571	1e+13	NDD	0.2113	-0.113	-0.3243
649	0	CORRELATION	0.0451	-0.0856	-0.1307
662	0	CORRELATION	0.1174	-0.1279	-0.2453
690	0	CORRELATION	0.0274	-0.0756	-0.103
708	0	CORRELATION	0.134	-0.1949	-0.3289

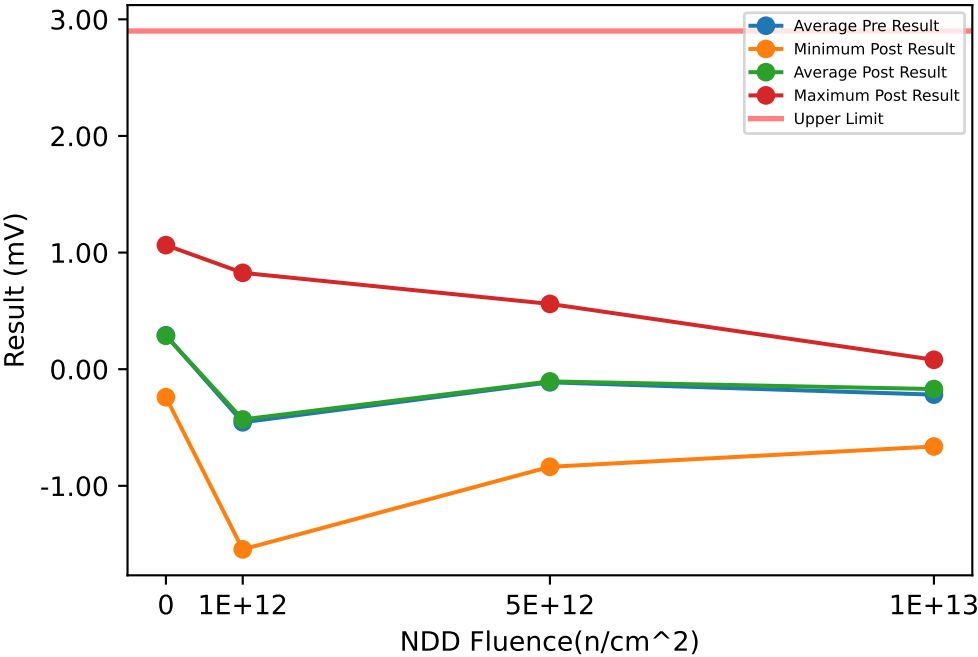
NDD vs Post - Pre Exposure Delta



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	0.0274	0.080975	0.134	0.052586	-0.1949	-0.121	-0.0756	0.054231	-0.3289	-0.20197	-0.103	0.10466
1e+12	0.0217	0.060725	0.0893	0.028561	-0.2542	-0.21225	-0.1747	0.037006	-0.3027	-0.27297	-0.2493	0.022607
5e+12	0.0155	0.071625	0.1107	0.042006	-0.2262	-0.1452	-0.1092	0.054422	-0.2417	-0.21683	-0.1903	0.023517
1e+13	0.0186	0.1145	0.2113	0.079025	-0.2979	-0.1553	-0.0686	0.099709	-0.3243	-0.2698	-0.1735	0.069399

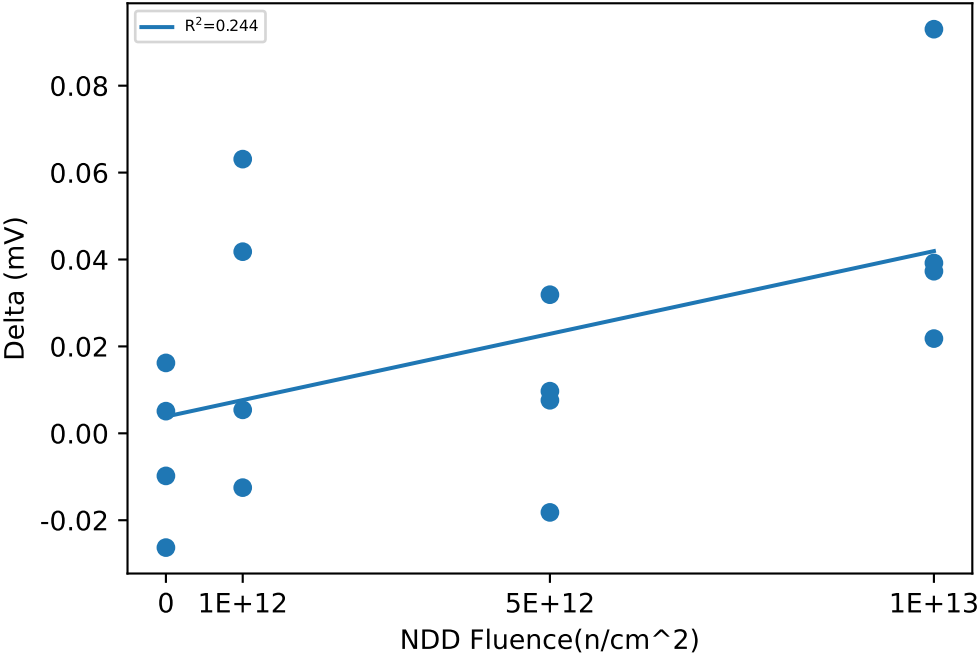
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	-1.6083	-1.5452	0.0631
266	1e+12	NDD	0.7846	0.8264	0.0418
267	1e+12	NDD	0.0439	0.0314	-0.0125
288	1e+12	NDD	-1.0421	-1.0367	0.0054
348	5e+12	NDD	0.046	0.0779	0.0319
353	5e+12	NDD	-0.2271	-0.2195	0.0076
370	5e+12	NDD	-0.8187	-0.8369	-0.0182
377	5e+12	NDD	0.5501	0.5598	0.0097
389	1e+13	NDD	-0.7559	-0.6629	0.093
394	1e+13	NDD	-0.1725	-0.1333	0.0392
395	1e+13	NDD	0.0434	0.0807	0.0373
571	1e+13	NDD	0.0127	0.0345	0.0218
649	0	CORRELATION	-0.0036	0.0015	0.0051
662	0	CORRELATION	1.0477	1.0639	0.0162
690	0	CORRELATION	-0.214	-0.2403	-0.0263
708	0	CORRELATION	0.3322	0.3224	-0.0098

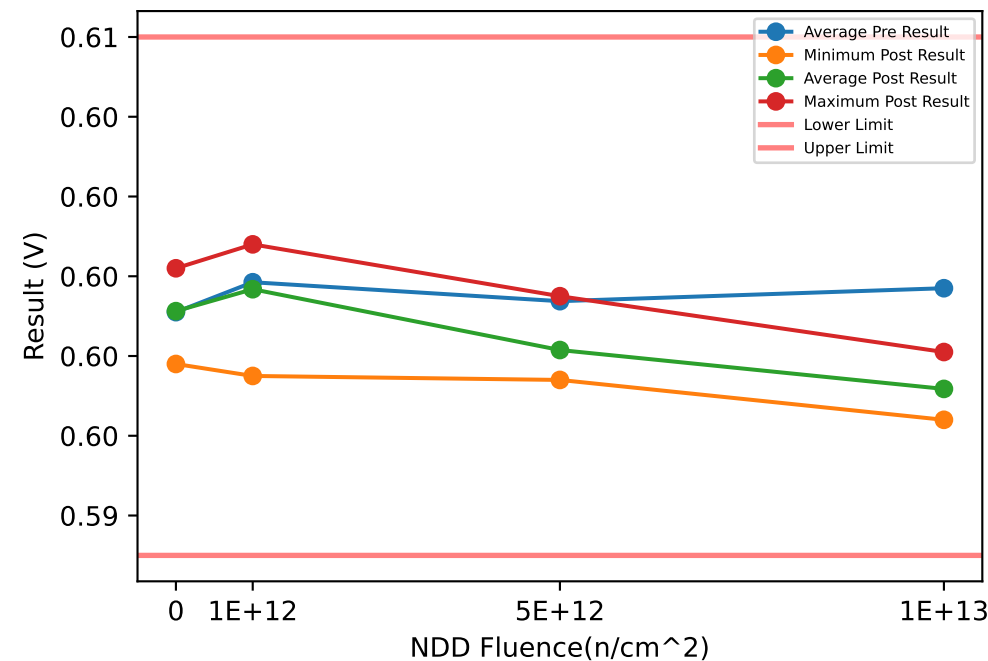
NDD vs Post - Pre Exposure Delta



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	-0.214	0.29058	1.0477	0.5526	-0.2403	0.28688	1.0639	0.56698	-0.0263	-0.0037	0.0162	0.018452
1e+12	-1.6083	-0.45548	0.7846	1.074	-1.5452	-0.43102	0.8264	1.0651	-0.0125	0.02445	0.0631	0.034269
5e+12	-0.8187	-0.11242	0.5501	0.57038	-0.8369	-0.10467	0.5598	0.58429	-0.0182	0.00775	0.0319	0.020498
1e+13	-0.7559	-0.21807	0.0434	0.37102	-0.6629	-0.17025	0.0807	0.34106	0.0218	0.047825	0.093	0.031109

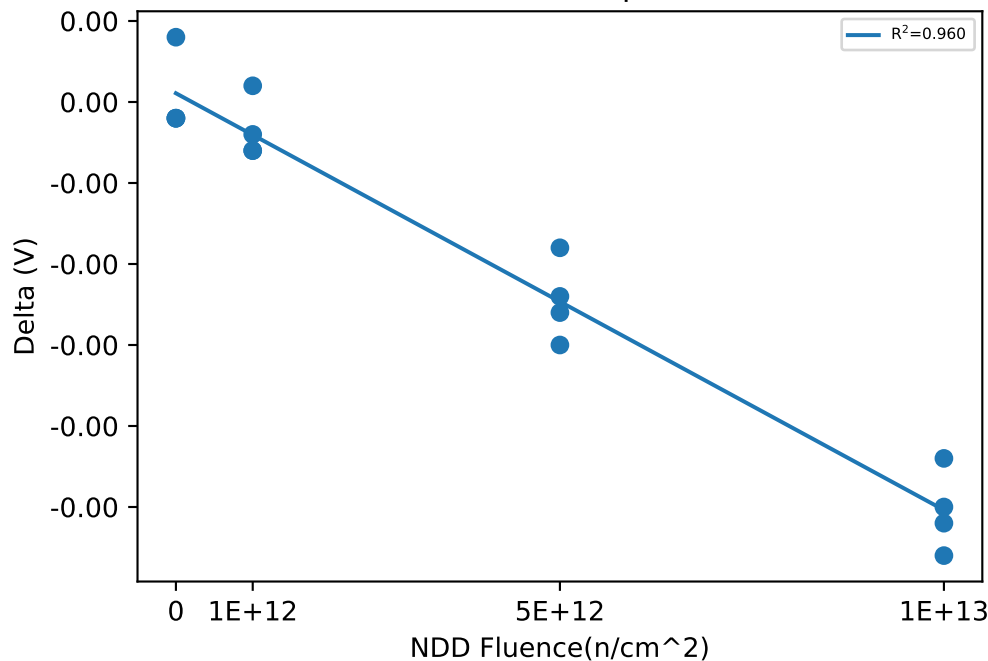
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6006	0.6003	-0.0003
266	1e+12	NDD	0.5978	0.5975	-0.0003
267	1e+12	NDD	0.6	0.6001	0.0001
288	1e+12	NDD	0.601	0.6008	-0.0002
348	5e+12	NDD	0.5994	0.5982	-0.0012
353	5e+12	NDD	0.599	0.5975	-0.0015
370	5e+12	NDD	0.6004	0.5995	-0.0009
377	5e+12	NDD	0.5987	0.5974	-0.0013
389	1e+13	NDD	0.6007	0.5981	-0.0026
394	1e+13	NDD	0.5999	0.5977	-0.0022
395	1e+13	NDD	0.599	0.5965	-0.0025
571	1e+13	NDD	0.5992	0.5964	-0.0028
649	0	CORRELATION	0.5991	0.599	-0.0001
662	0	CORRELATION	0.5974	0.5978	0.0004
690	0	CORRELATION	0.6003	0.6002	-0.0001
708	0	CORRELATION	0.5996	0.5995	-0.0001

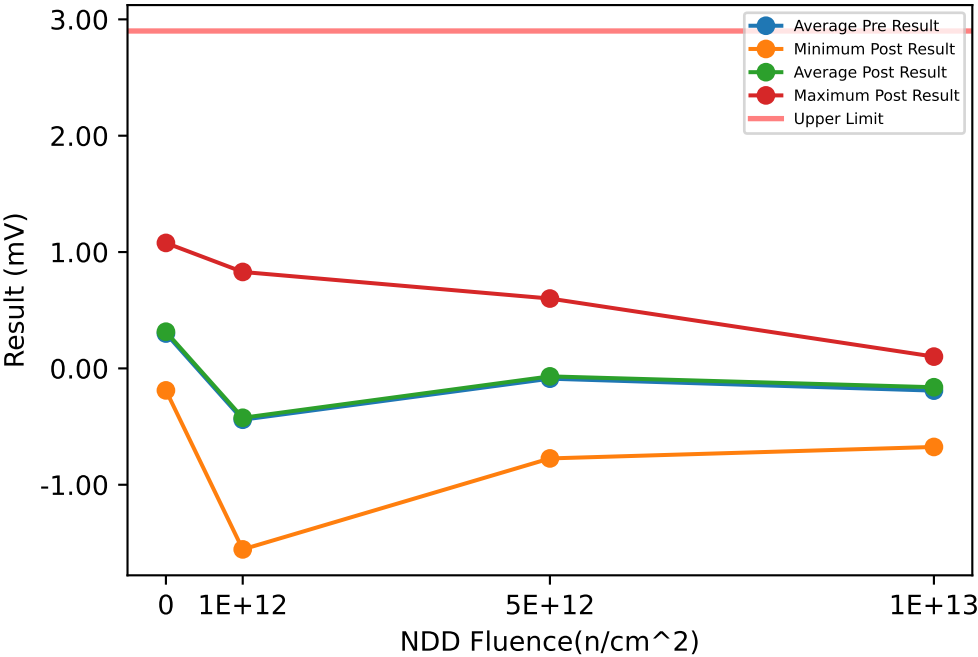
NDD vs Post - Pre Exposure Delta



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	0.5974	0.5991	0.6003	0.0012356	0.5978	0.59913	0.6002	0.0010112	-0.0001	2.5e-05	0.0004	0.00025
1e+12	0.5978	0.59985	0.601	0.0014271	0.5975	0.59967	0.6008	0.0014796	-0.0003	-0.000175	0.0001	0.0001893
5e+12	0.5987	0.59937	0.6004	0.00074106	0.5974	0.59815	0.5995	0.00096782	-0.0015	-0.001225	-0.0009	0.00025
1e+13	0.599	0.5997	0.6007	0.00077028	0.5964	0.59718	0.5981	0.00085391	-0.0028	-0.002525	-0.0022	0.00025

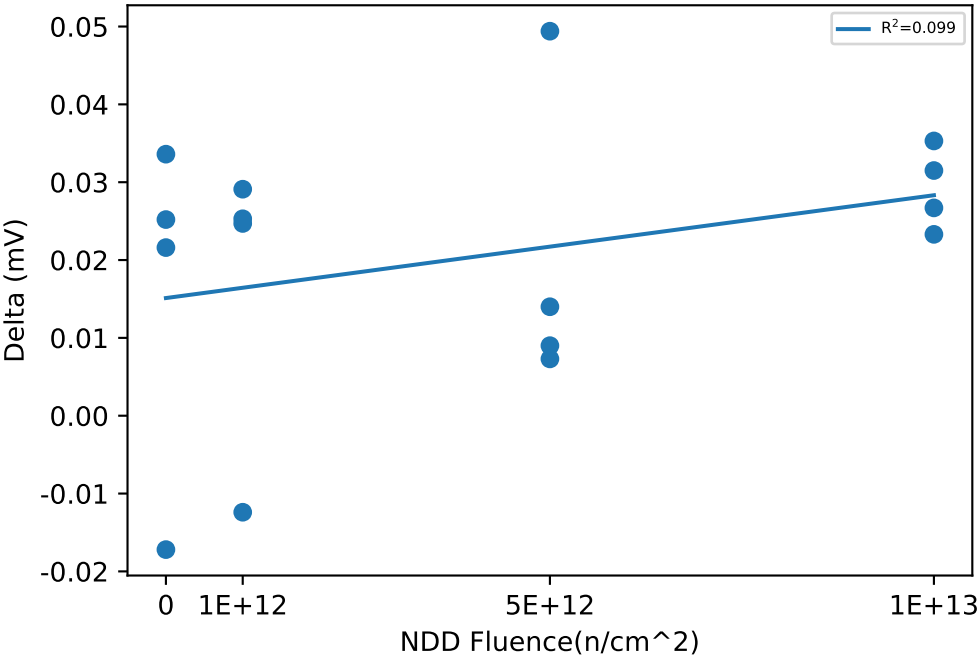
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	-1.5803	-1.5556	0.0247
266	1e+12	NDD	0.7999	0.829	0.0291
267	1e+12	NDD	0.0579	0.0455	-0.0124
288	1e+12	NDD	-1.0417	-1.0164	0.0253
348	5e+12	NDD	0.0672	0.0762	0.009
353	5e+12	NDD	-0.2261	-0.1767	0.0494
370	5e+12	NDD	-0.7877	-0.7737	0.014
377	5e+12	NDD	0.5932	0.6005	0.0073
389	1e+13	NDD	-0.7104	-0.6751	0.0353
394	1e+13	NDD	-0.1561	-0.1246	0.0315
395	1e+13	NDD	0.0747	0.1014	0.0267
571	1e+13	NDD	0.0275	0.0508	0.0233
649	0	CORRELATION	-0.0002	0.0334	0.0336
662	0	CORRELATION	1.0533	1.0785	0.0252
690	0	CORRELATION	-0.2106	-0.189	0.0216
708	0	CORRELATION	0.3563	0.3391	-0.0172

NDD vs Post - Pre Exposure Delta

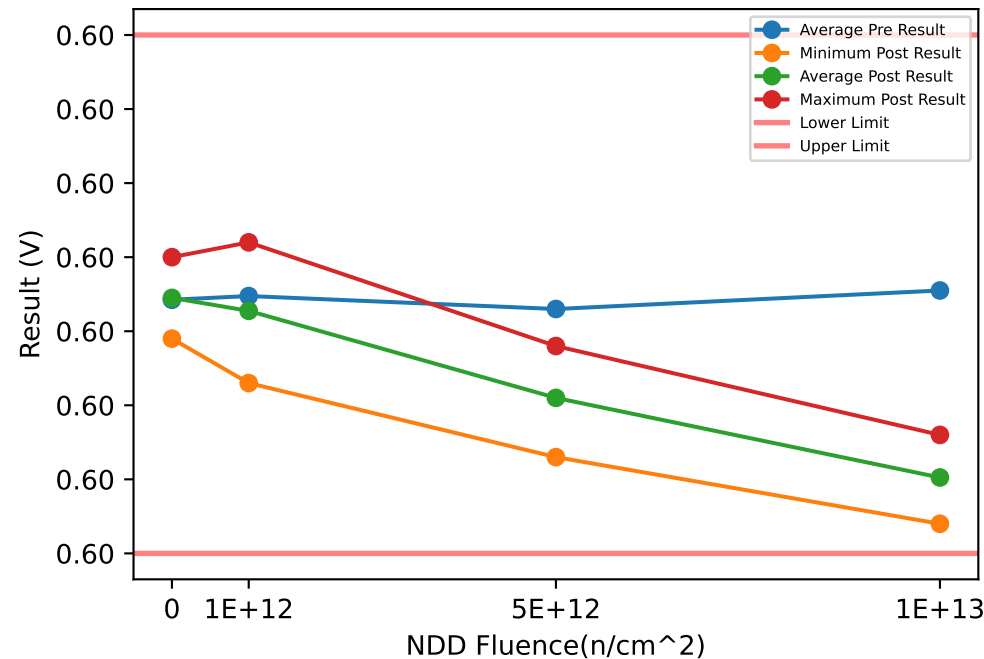


Test Statistics (mV)

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	-0.2106	0.2997	1.0533	0.55421	-0.189	0.3155	1.0785	0.55282	-0.0172	0.0158	0.0336	0.022567
1e+12	-1.5803	-0.44105	0.7999	1.072	-1.5556	-0.42438	0.829	1.068	-0.0124	0.016675	0.0291	0.019481
5e+12	-0.7877	-0.08835	0.5932	0.57642	-0.7737	-0.068425	0.6005	0.57082	0.0073	0.019925	0.0494	0.019855
1e+13	-0.7104	-0.19107	0.0747	0.36025	-0.6751	-0.16188	0.1014	0.35559	0.0233	0.0292	0.0353	0.0052776

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

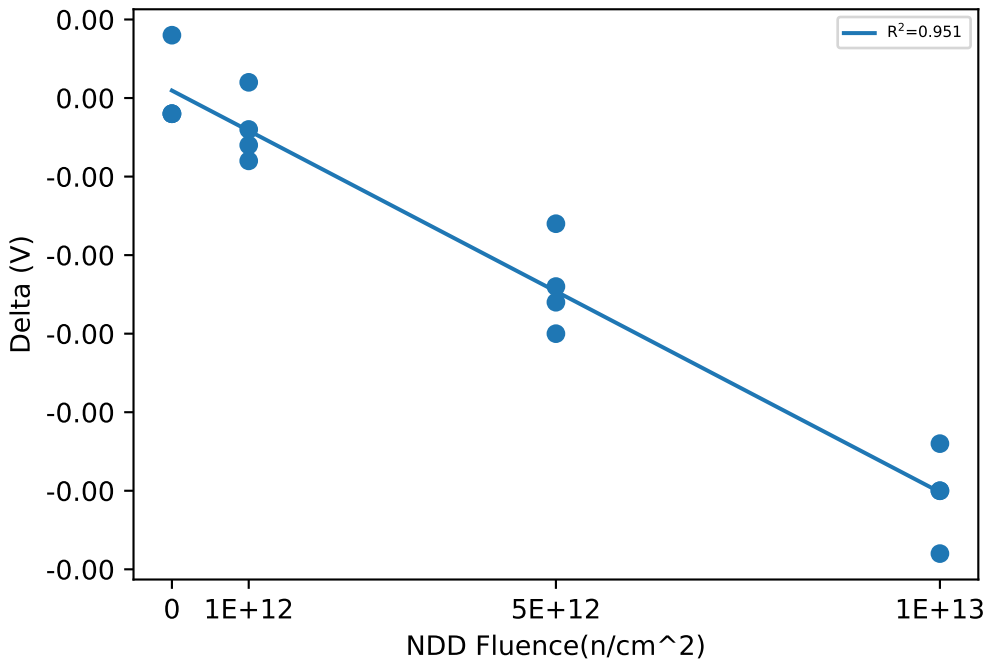
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.5991	0.5988	-0.0003
266	1e+12	NDD	0.5987	0.5983	-0.0004
267	1e+12	NDD	0.6001	0.6002	0.0001
288	1e+12	NDD	0.6	0.5998	-0.0002
348	5e+12	NDD	0.5995	0.5983	-0.0012
353	5e+12	NDD	0.5988	0.5973	-0.0015
370	5e+12	NDD	0.5996	0.5988	-0.0008
377	5e+12	NDD	0.5993	0.598	-0.0013
389	1e+13	NDD	0.6	0.5975	-0.0025
394	1e+13	NDD	0.5998	0.5976	-0.0022
395	1e+13	NDD	0.5991	0.5966	-0.0025
571	1e+13	NDD	0.5993	0.5964	-0.0029
649	0	CORRELATION	0.5991	0.599	-0.0001
662	0	CORRELATION	0.5985	0.5989	0.0004
690	0	CORRELATION	0.6001	0.6	-0.0001
708	0	CORRELATION	0.6	0.5999	-0.0001

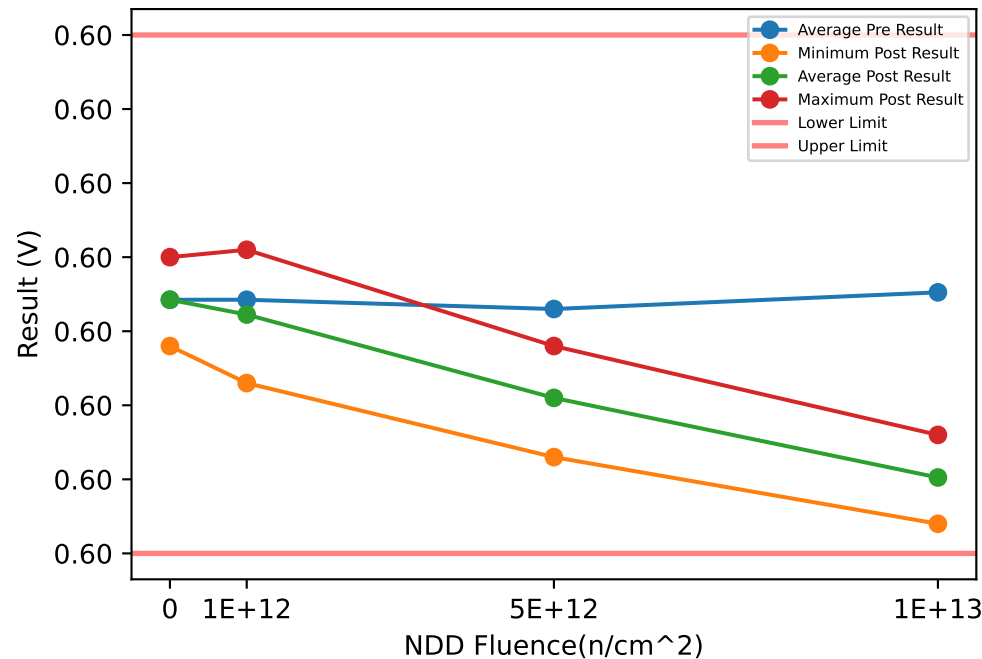
NDD vs Post - Pre Exposure Delta



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	0.5985	0.59942	0.6001	0.00076322	0.5989	0.59945	0.6	0.00058023	-0.0001	2.5e-05	0.0004	0.00025
1e+12	0.5987	0.59947	0.6001	0.00068496	0.5983	0.59928	0.6002	0.00087702	-0.0004	-0.0002	0.0001	0.00021602
5e+12	0.5988	0.5993	0.5996	0.0003559	0.5973	0.5981	0.5988	0.00062716	-0.0015	-0.0012	-0.0008	0.00029439
1e+13	0.5991	0.59955	0.6	0.00042032	0.5964	0.59703	0.5976	0.00061305	-0.0029	-0.002525	-0.0022	0.00028723

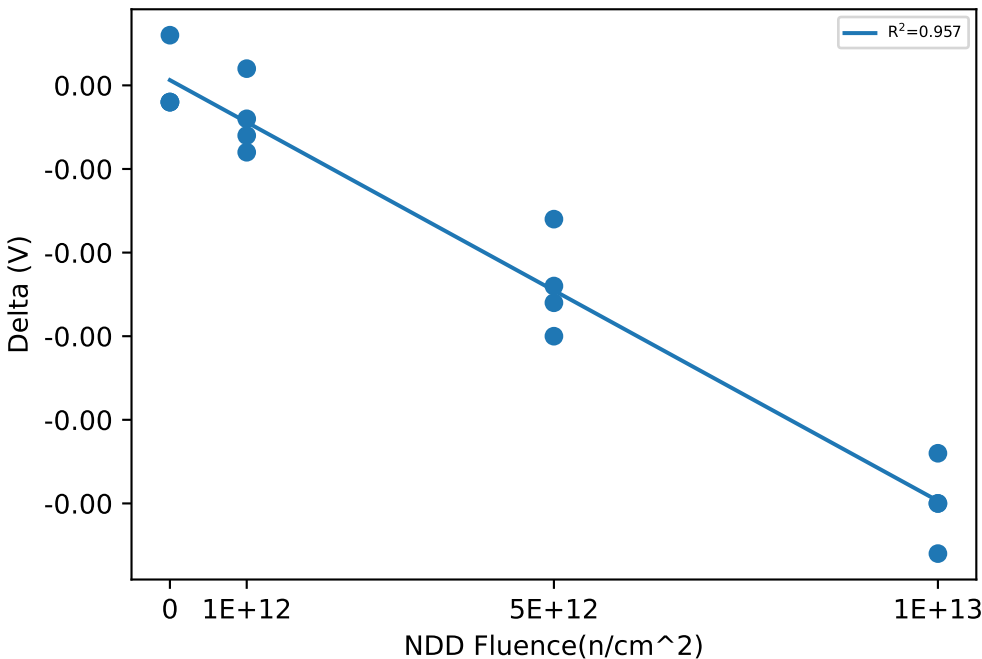
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.5991	0.5988	-0.0003
266	1e+12	NDD	0.5987	0.5983	-0.0004
267	1e+12	NDD	0.6	0.6001	0.0001
288	1e+12	NDD	0.5999	0.5997	-0.0002
348	5e+12	NDD	0.5995	0.5983	-0.0012
353	5e+12	NDD	0.5988	0.5973	-0.0015
370	5e+12	NDD	0.5996	0.5988	-0.0008
377	5e+12	NDD	0.5993	0.598	-0.0013
389	1e+13	NDD	0.6	0.5975	-0.0025
394	1e+13	NDD	0.5998	0.5976	-0.0022
395	1e+13	NDD	0.5991	0.5966	-0.0025
571	1e+13	NDD	0.5992	0.5964	-0.0028
649	0	CORRELATION	0.5991	0.599	-0.0001
662	0	CORRELATION	0.5985	0.5988	0.0003
690	0	CORRELATION	0.6001	0.6	-0.0001
708	0	CORRELATION	0.6	0.5999	-0.0001

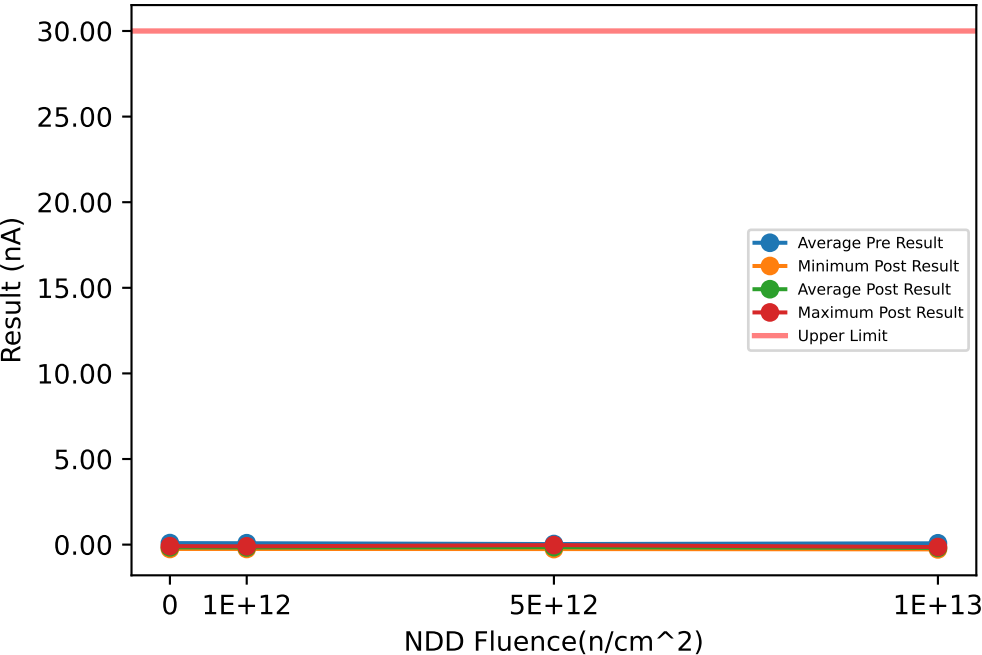
NDD vs Post - Pre Exposure Delta



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	0.5985	0.59942	0.6001	0.00076322	0.5988	0.59942	0.6	0.00061305	-0.0001	0	0.0003	0.0002
1e+12	0.5987	0.59942	0.6	0.00062915	0.5983	0.59923	0.6001	0.00082209	-0.0004	-0.0002	0.0001	0.00021602
5e+12	0.5988	0.5993	0.5996	0.0003559	0.5973	0.5981	0.5988	0.00062716	-0.0015	-0.0012	-0.0008	0.00029439
1e+13	0.5991	0.59952	0.6	0.00044253	0.5964	0.59703	0.5976	0.00061305	-0.0028	-0.0025	-0.0022	0.00024495

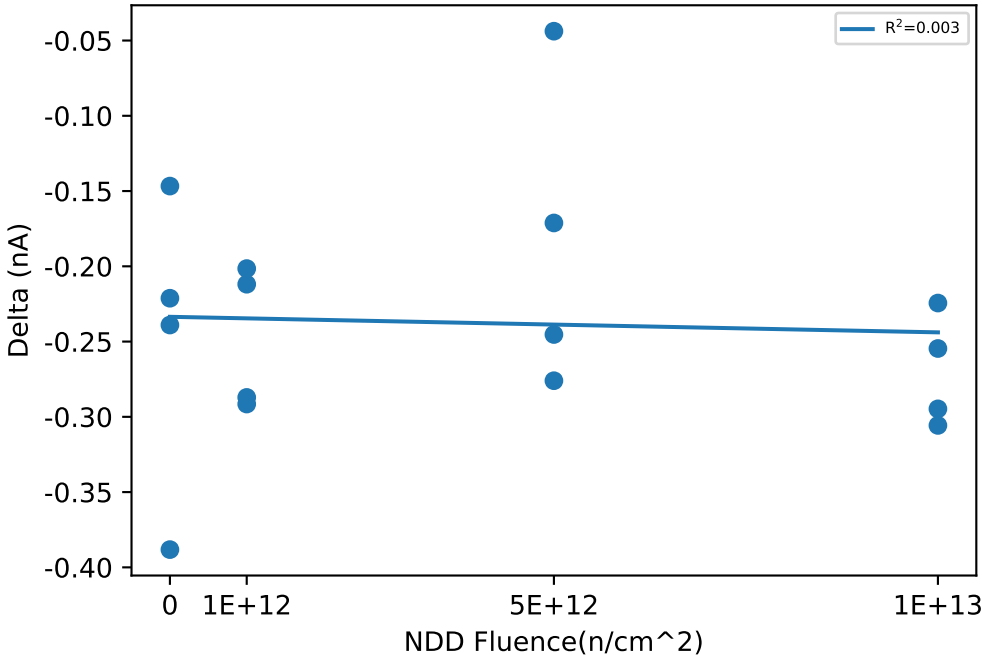
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

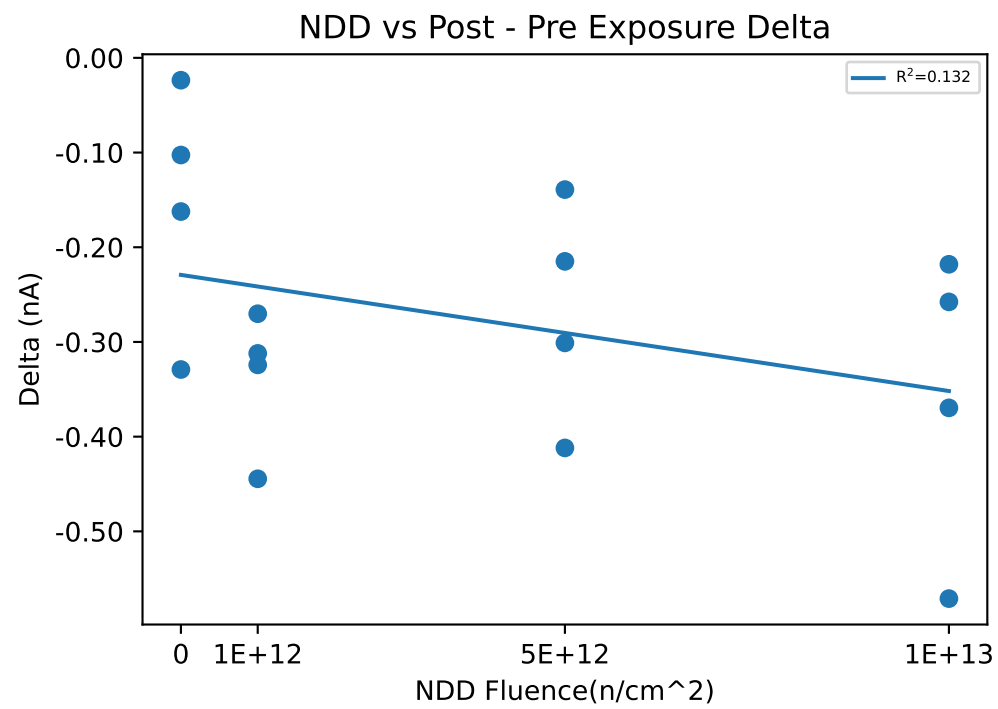
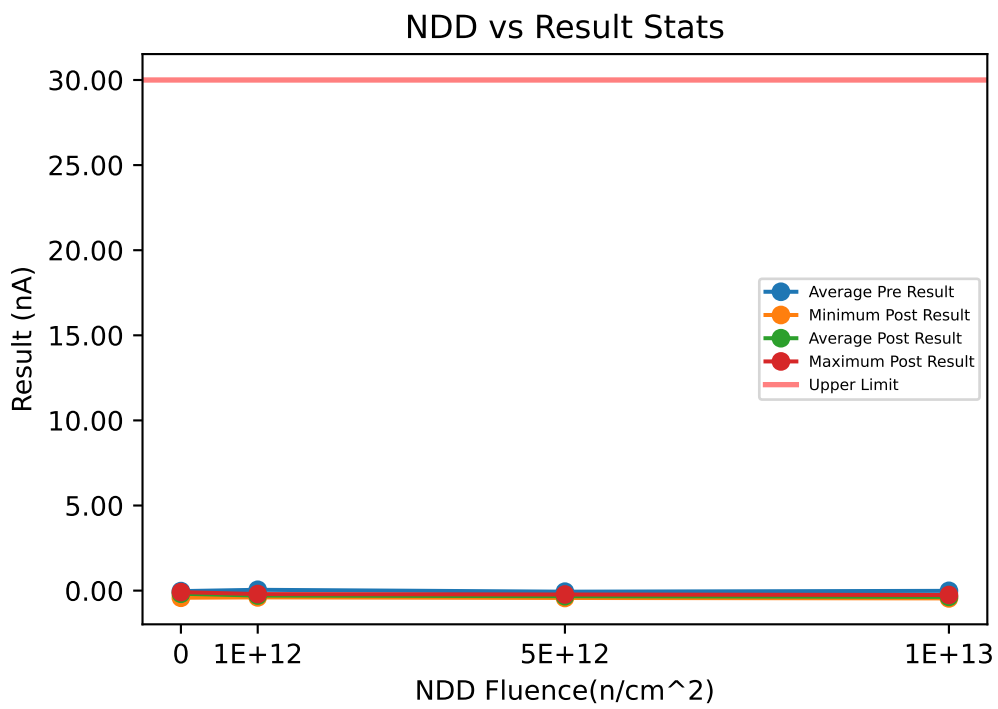
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.0373	-0.2542	-0.2915
266	1e+12	NDD	0.1107	-0.1012	-0.2119
267	1e+12	NDD	0.1017	-0.0998	-0.2015
288	1e+12	NDD	0.0773	-0.2098	-0.2871
348	5e+12	NDD	0.0155	-0.2605	-0.276
353	5e+12	NDD	0.0295	-0.1417	-0.1712
370	5e+12	NDD	0.0768	-0.1685	-0.2453
377	5e+12	NDD	0.015	-0.0288	-0.0438
389	1e+13	NDD	0.0155	-0.2792	-0.2947
394	1e+13	NDD	0.0639	-0.1605	-0.2244
395	1e+13	NDD	0.1142	-0.1404	-0.2546
571	1e+13	NDD	0.1178	-0.1879	-0.3057
649	0	CORRELATION	0.0826	-0.1386	-0.2212
662	0	CORRELATION	0.0799	-0.1591	-0.239
690	0	CORRELATION	0.0586	-0.0881	-0.1467
708	0	CORRELATION	0.134	-0.2542	-0.3882

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	0.0586	0.088775	0.134	0.032004	-0.2542	-0.16	-0.0881	0.069527	-0.3882	-0.24877	-0.1467	0.10118
1e+12	0.0373	0.08175	0.1107	0.032821	-0.2542	-0.16625	-0.0998	0.078057	-0.2915	-0.248	-0.2015	0.047911
5e+12	0.015	0.0342	0.0768	0.029184	-0.2605	-0.14988	-0.0288	0.095413	-0.276	-0.18408	-0.0438	0.10335
1e+13	0.0155	0.07785	0.1178	0.048303	-0.2792	-0.192	-0.1404	0.061306	-0.3057	-0.26985	-0.2244	0.037421

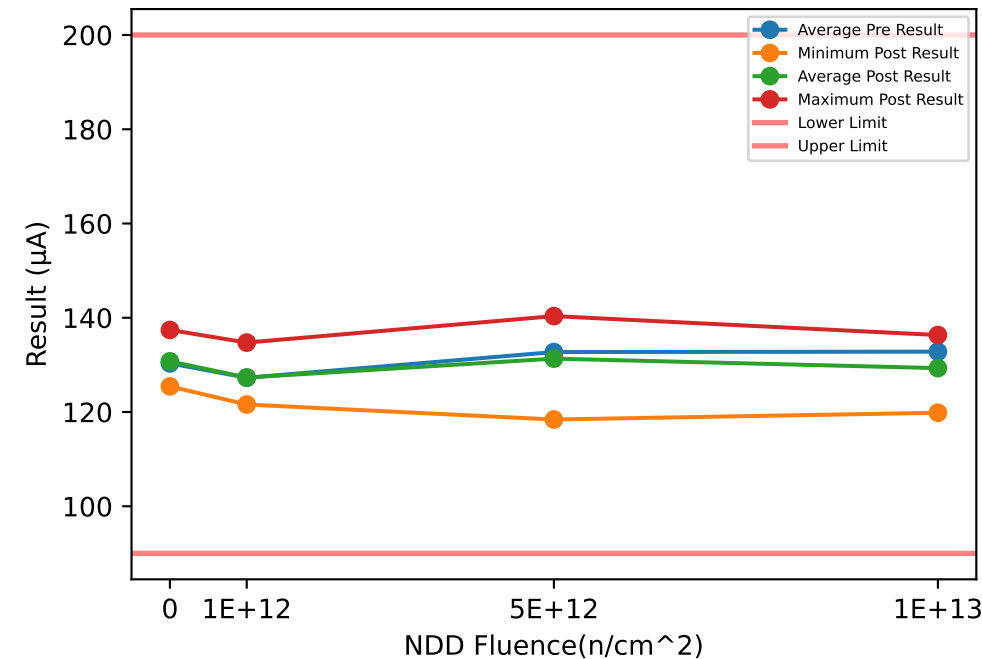


Test Results (Upper Limit = 30.0 (nA))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.0467	-0.3978	-0.4445
266	1e+12	NDD	0.0857	-0.2385	-0.3242
267	1e+12	NDD	0.0674	-0.2028	-0.2702
288	1e+12	NDD	-0.0069	-0.319	-0.3121
348	5e+12	NDD	-0.1312	-0.4322	-0.301
353	5e+12	NDD	-0.0142	-0.2291	-0.2149
370	5e+12	NDD	-0.1293	-0.2684	-0.1391
377	5e+12	NDD	0.0274	-0.3845	-0.4119
389	1e+13	NDD	-0.0875	-0.4571	-0.3696
394	1e+13	NDD	-0.0392	-0.2572	-0.218
395	1e+13	NDD	-0.0918	-0.3495	-0.2577
571	1e+13	NDD	0.1646	-0.4064	-0.571
649	0	CORRELATION	-0.0298	-0.1324	-0.1026
662	0	CORRELATION	-0.07	-0.0936	-0.0236
690	0	CORRELATION	0.0742	-0.0881	-0.1623
708	0	CORRELATION	-0.0906	-0.4197	-0.3291

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	-0.0906	-0.02905	0.0742	0.073318	-0.4197	-0.18345	-0.0881	0.15873	-0.3291	-0.1544	-0.0236	0.12958
1e+12	-0.0069	0.048225	0.0857	0.040055	-0.3978	-0.28953	-0.2028	0.087019	-0.4445	-0.33775	-0.2702	0.074833
5e+12	-0.1312	-0.061825	0.0274	0.080819	-0.4322	-0.32855	-0.2291	0.095537	-0.4119	-0.26672	-0.1391	0.11722
1e+13	-0.0918	-0.013475	0.1646	0.12109	-0.4571	-0.36755	-0.2572	0.085696	-0.571	-0.35407	-0.218	0.15822

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

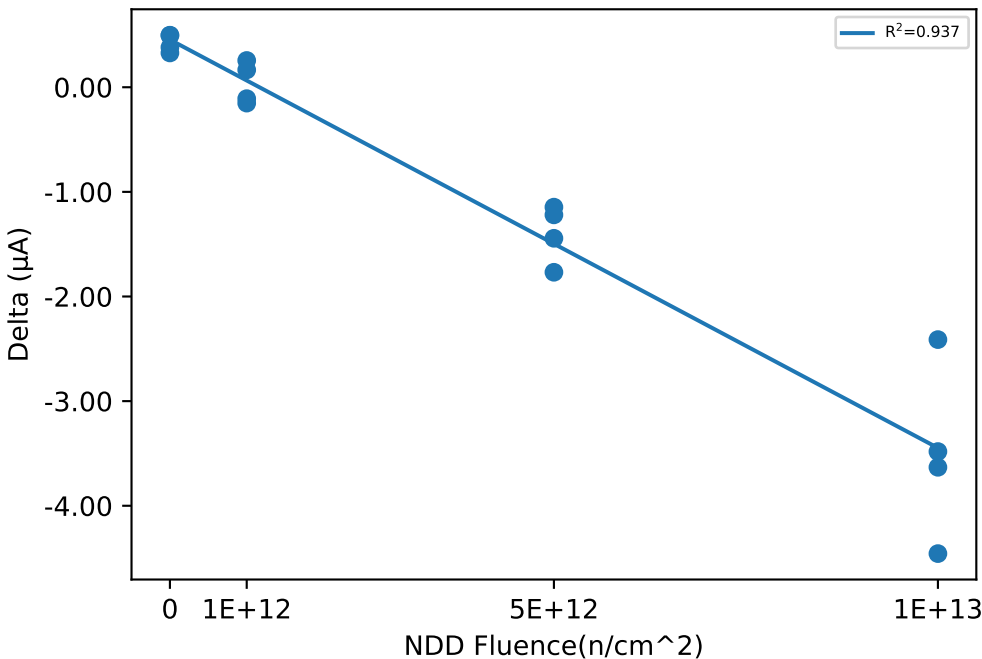
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	121.34	121.59	0.2558
266	1e+12	NDD	123.52	123.69	0.1659
267	1e+12	NDD	129.35	129.24	-0.1092
288	1e+12	NDD	134.89	134.74	-0.1517
348	5e+12	NDD	135.49	133.72	-1.7684
353	5e+12	NDD	134.06	132.84	-1.2198
370	5e+12	NDD	119.85	118.41	-1.4436
377	5e+12	NDD	141.5	140.35	-1.146
389	1e+13	NDD	139.97	136.34	-3.6323
394	1e+13	NDD	122.25	119.84	-2.4119
395	1e+13	NDD	133.42	129.94	-3.4819
571	1e+13	NDD	135.61	131.15	-4.4572
649	0	CORRELATION	137.09	137.41	0.3278
662	0	CORRELATION	124.94	125.44	0.4974
690	0	CORRELATION	133.29	133.67	0.3814
708	0	CORRELATION	125.97	126.47	0.4955

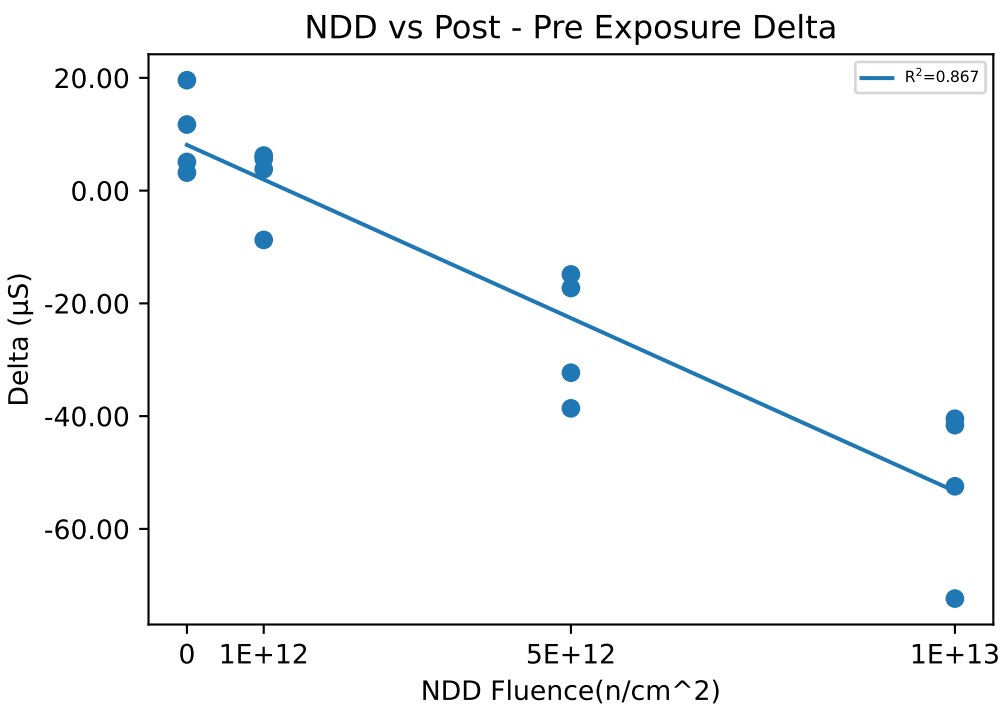
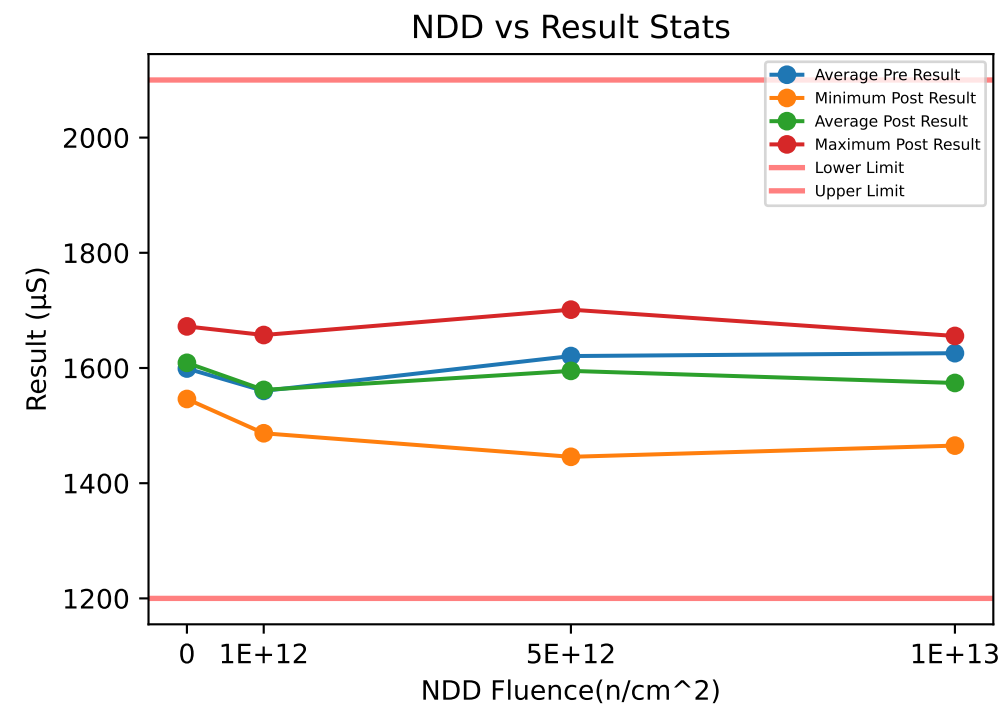
NDD vs Post - Pre Exposure Delta



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	124.94	130.32	137.09	5.8434	125.44	130.75	137.41	5.7588	0.3278	0.42552	0.4974	0.084774
1e+12	121.34	127.27	134.89	6.0991	121.59	127.31	134.74	5.9068	-0.1517	0.0402	0.2558	0.20119
5e+12	119.85	132.72	141.5	9.1659	118.41	131.33	140.35	9.243	-1.7684	-1.3945	-1.146	0.27957
1e+13	122.25	132.81	139.97	7.5462	119.84	129.32	136.34	6.8983	-4.4572	-3.4958	-2.4119	0.84023

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

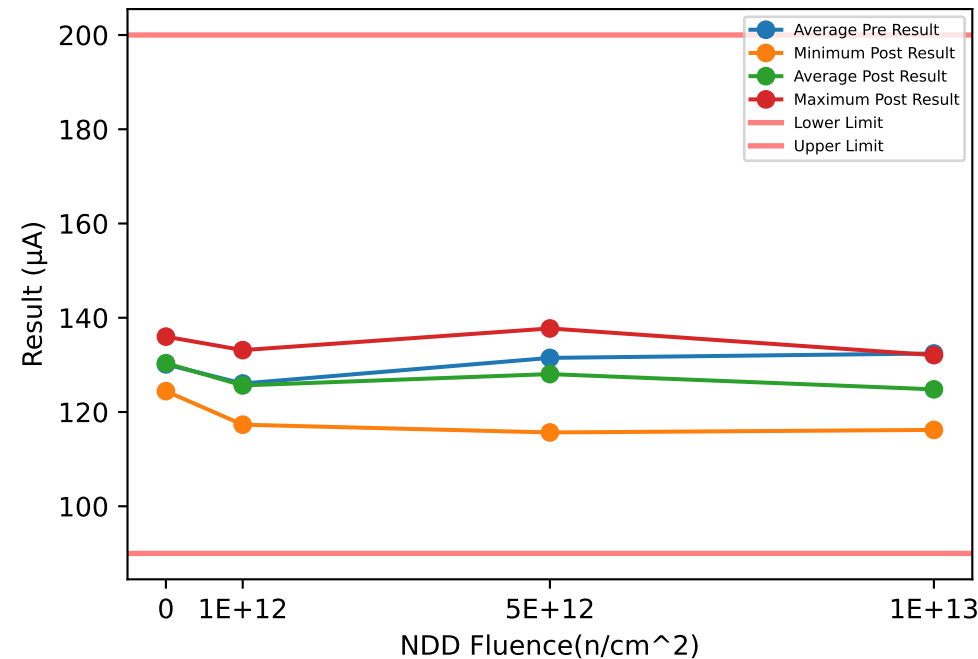


Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1482.9	1486.7	3.791
266	1e+12	NDD	1509.8	1516	6.2209
267	1e+12	NDD	1596.6	1587.9	-8.7421
288	1e+12	NDD	1651.6	1657.3	5.6286
348	5e+12	NDD	1658.1	1619.5	-38.62
353	5e+12	NDD	1628.2	1613.3	-14.859
370	5e+12	NDD	1478.1	1445.8	-32.297
377	5e+12	NDD	1718.6	1701.3	-17.279
389	1e+13	NDD	1697.2	1655.6	-41.604
394	1e+13	NDD	1517.7	1465.3	-52.444
395	1e+13	NDD	1618.8	1578.3	-40.463
571	1e+13	NDD	1669.2	1596.8	-72.363
649	0	CORRELATION	1667.1	1672.2	5.0846
662	0	CORRELATION	1534.5	1546.2	11.724
690	0	CORRELATION	1635.8	1655.4	19.586
708	0	CORRELATION	1559	1562.2	3.1935

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	1534.5	1599.1	1667.1	62.608	1546.2	1609	1672.2	63.988	3.1935	9.897	19.586	7.4232
1e+12	1482.9	1560.2	1651.6	77.904	1486.7	1562	1657.3	76.451	-8.7421	1.7246	6.2209	7.0541
5e+12	1478.1	1620.7	1718.6	102.25	1445.8	1595	1701.3	107.22	-38.62	-25.764	-14.859	11.531
1e+13	1517.7	1625.7	1697.2	78.983	1465.3	1574	1655.6	79.634	-72.363	-51.718	-40.463	14.784

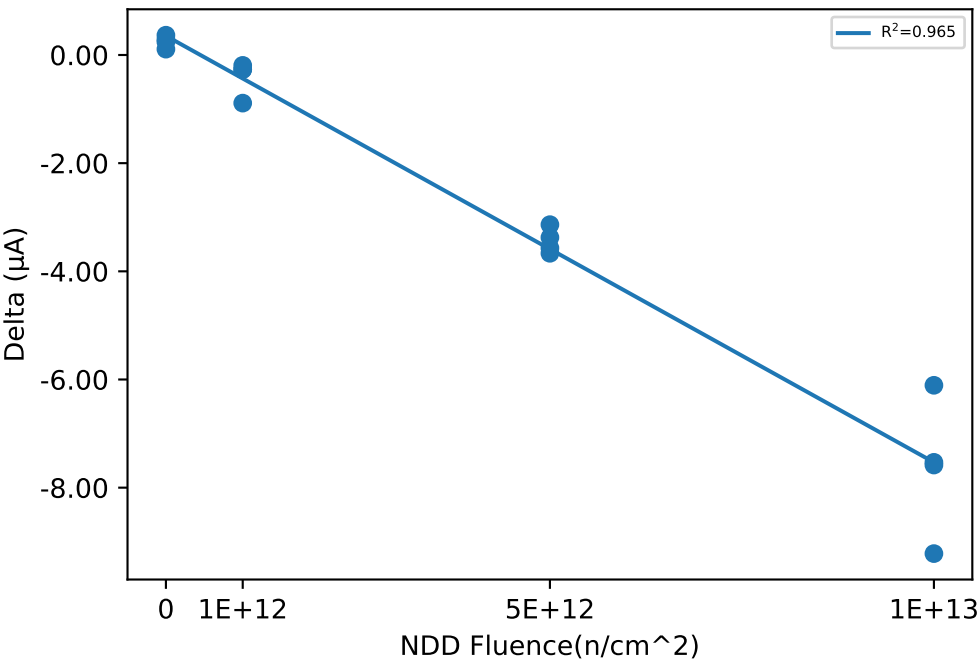
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	117.51	117.31	-0.192
266	1e+12	NDD	123.31	122.42	-0.8898
267	1e+12	NDD	129.97	129.7	-0.2702
288	1e+12	NDD	133.4	133.13	-0.2649
348	5e+12	NDD	133.81	130.44	-3.374
353	5e+12	NDD	132.02	128.36	-3.6664
370	5e+12	NDD	118.8	115.66	-3.1371
377	5e+12	NDD	141.3	137.73	-3.5694
389	1e+13	NDD	139.6	132.07	-7.5315
394	1e+13	NDD	122.31	116.2	-6.1072
395	1e+13	NDD	132.7	125.12	-7.5816
571	1e+13	NDD	135.07	125.85	-9.2191
649	0	CORRELATION	135.71	135.99	0.2869
662	0	CORRELATION	124.19	124.43	0.2417
690	0	CORRELATION	134.16	134.27	0.108
708	0	CORRELATION	126.39	126.76	0.366

NDD vs Post - Pre Exposure Delta

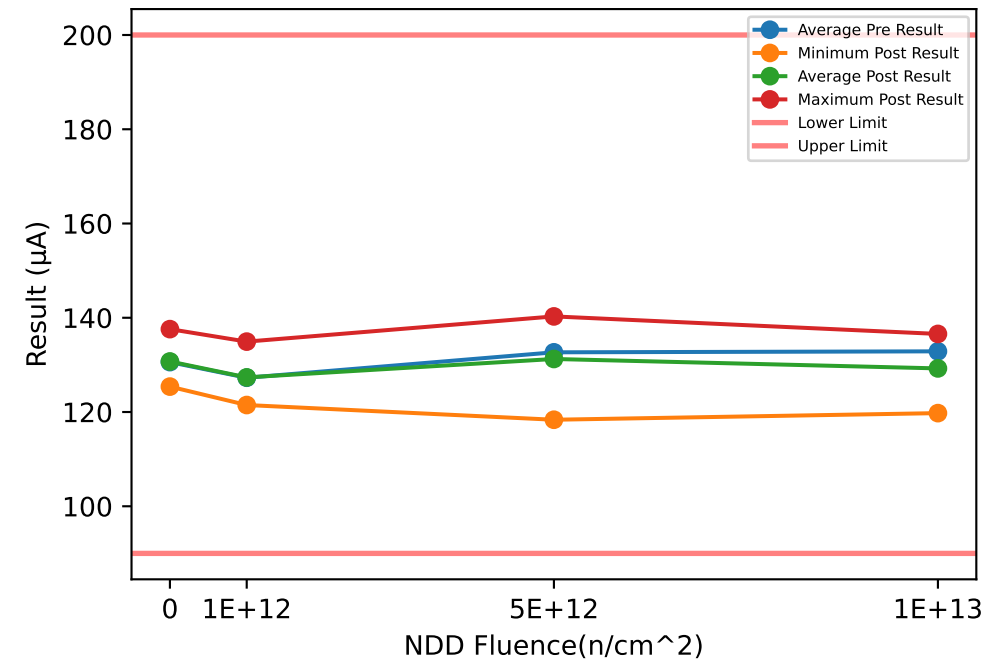


Test Statistics (µA)

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	124.19	130.11	135.71	5.676	124.43	130.36	135.99	5.6328	0.108	0.25065	0.366	0.10809
1e+12	117.51	126.04	133.4	7.067	117.31	125.64	133.13	7.1245	-0.8898	-0.40423	-0.192	0.32568
5e+12	118.8	131.48	141.3	9.3628	115.66	128.05	137.73	9.1832	-3.6664	-3.4367	-3.1371	0.23385
1e+13	122.31	132.42	139.6	7.3234	116.2	124.81	132.07	6.5316	-9.2191	-7.6098	-6.1072	1.2721

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

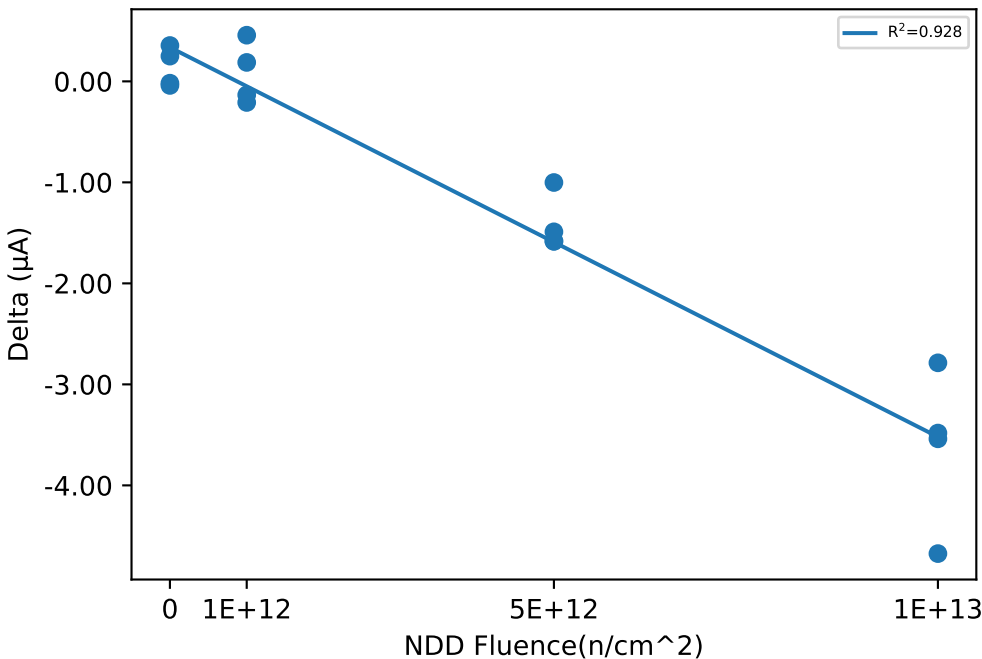
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	121.62	121.48	-0.1344
266	1e+12	NDD	123.8	123.59	-0.2089
267	1e+12	NDD	129.19	129.38	0.1876
288	1e+12	NDD	134.48	134.94	0.4571
348	5e+12	NDD	135.17	133.59	-1.5807
353	5e+12	NDD	133.78	132.78	-1.0013
370	5e+12	NDD	119.94	118.36	-1.5842
377	5e+12	NDD	141.78	140.29	-1.4896
389	1e+13	NDD	140.11	136.57	-3.539
394	1e+13	NDD	122.55	119.76	-2.7866
395	1e+13	NDD	133.25	129.77	-3.482
571	1e+13	NDD	135.59	130.91	-4.6754
649	0	CORRELATION	137.34	137.59	0.2498
662	0	CORRELATION	125.41	125.39	-0.018
690	0	CORRELATION	133.56	133.52	-0.0402
708	0	CORRELATION	126.05	126.41	0.3551

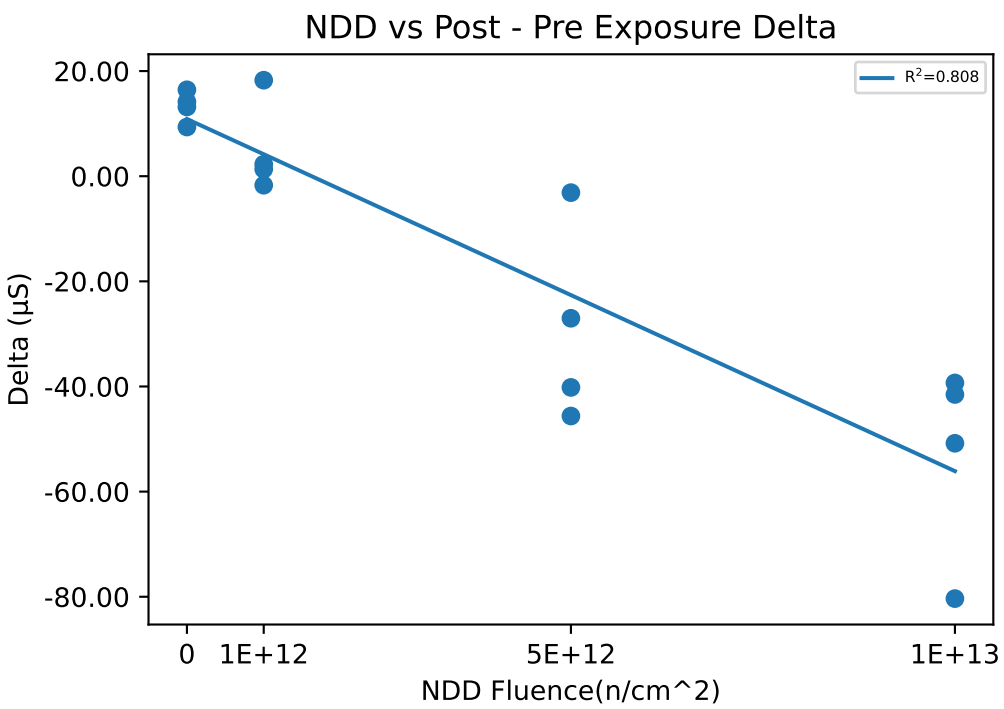
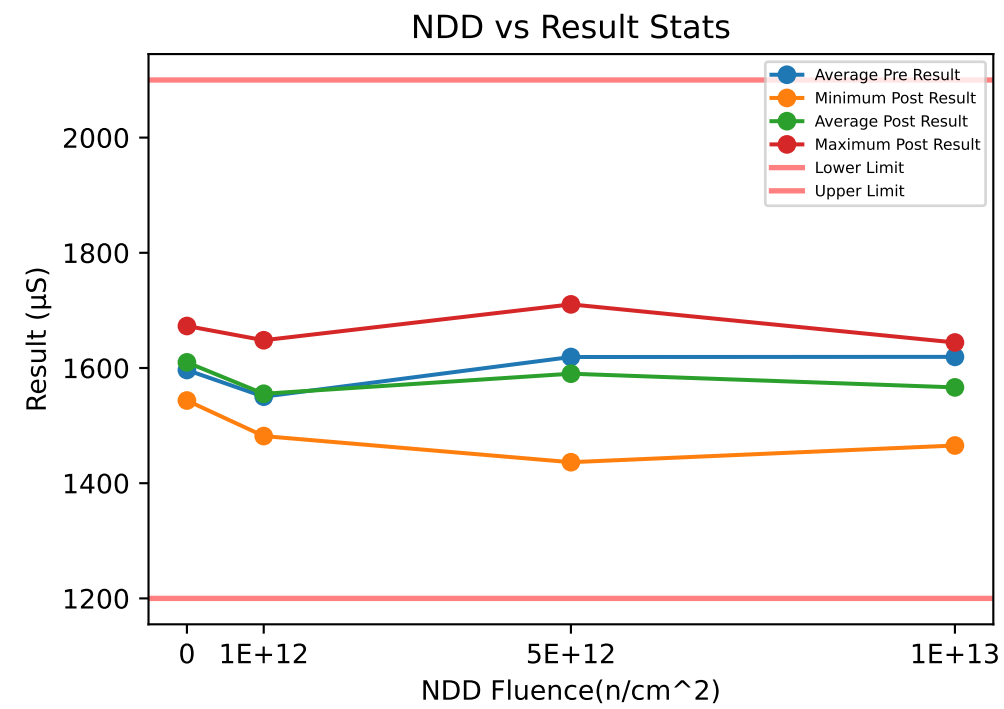
NDD vs Post - Pre Exposure Delta



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	125.41	130.59	137.34	5.8237	125.39	130.73	137.59	5.8297	-0.0402	0.13668	0.3551	0.1964
1e+12	121.62	127.27	134.48	5.7638	121.48	127.35	134.94	6.0616	-0.2089	0.07535	0.4571	0.30721
5e+12	119.94	132.67	141.78	9.1713	118.36	131.25	140.29	9.2305	-1.5842	-1.4139	-1.0013	0.27856
1e+13	122.55	132.87	140.11	7.4477	119.76	129.25	136.57	6.9899	-4.6754	-3.6208	-2.7866	0.78188

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



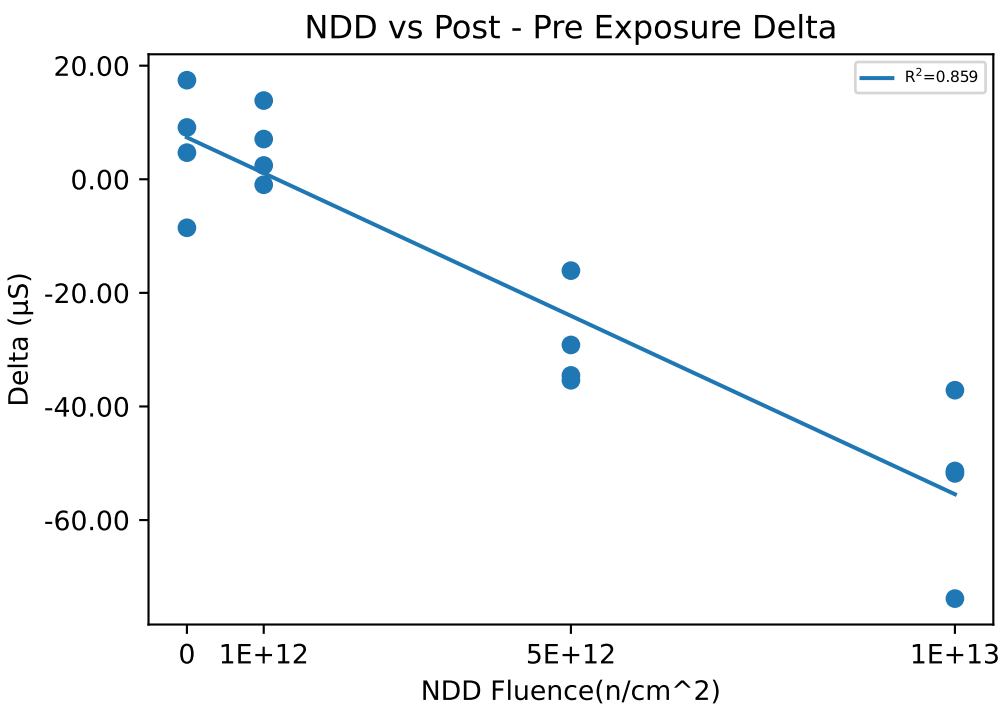
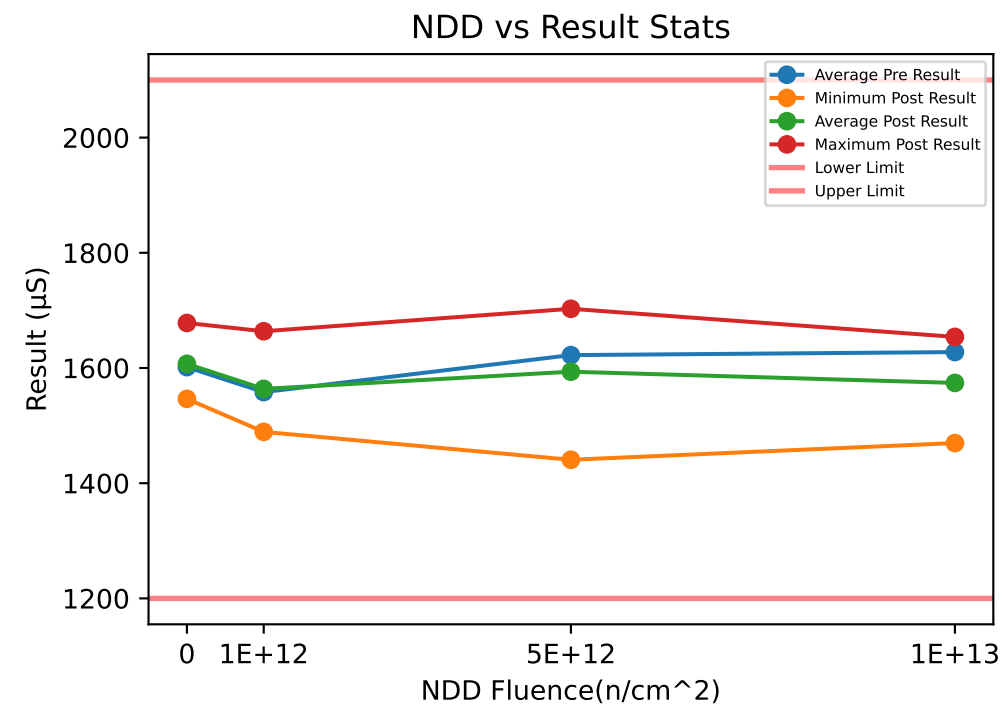
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1479.5	1481.8	2.2803
266	1e+12	NDD	1509.2	1507.4	-1.7154
267	1e+12	NDD	1582.3	1583.6	1.3367
288	1e+12	NDD	1629.9	1648.2	18.262
348	5e+12	NDD	1660.4	1614.8	-45.619
353	5e+12	NDD	1625.7	1598.7	-27.024
370	5e+12	NDD	1476.6	1436.4	-40.178
377	5e+12	NDD	1713.6	1710.5	-3.1271
389	1e+13	NDD	1685.8	1644.3	-41.522
394	1e+13	NDD	1504.8	1465.4	-39.326
395	1e+13	NDD	1619.7	1568.9	-50.807
571	1e+13	NDD	1667	1586.7	-80.35
649	0	CORRELATION	1663.6	1672.9	9.3556
662	0	CORRELATION	1527.1	1543.6	16.438
690	0	CORRELATION	1639.7	1652.8	13.173
708	0	CORRELATION	1555.7	1569.8	14.171

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	1527.1	1596.5	1663.6	65.425	1543.6	1609.8	1672.9	62.772	9.3556	13.284	16.438	2.9542
1e+12	1479.5	1550.2	1629.9	68.473	1481.8	1555.3	1648.2	75.549	-1.7154	5.0409	18.262	8.9776
5e+12	1476.6	1619.1	1713.6	101.62	1436.4	1590.1	1710.5	113.69	-45.619	-28.987	-3.1271	18.925
1e+13	1504.8	1619.3	1685.8	81.291	1465.4	1566.3	1644.3	74.57	-80.35	-53.001	-39.326	18.9

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



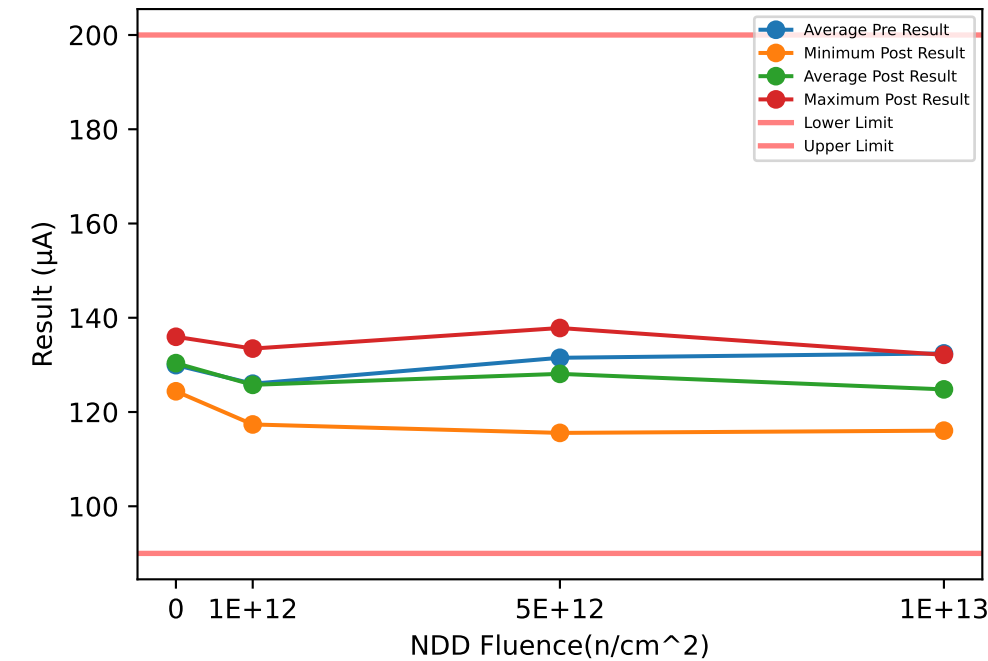
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1475.3	1489.1	13.86
266	1e+12	NDD	1515.2	1514.2	-0.9641
267	1e+12	NDD	1585.5	1587.9	2.4309
288	1e+12	NDD	1656.7	1663.8	7.0813
348	5e+12	NDD	1656.7	1622.1	-34.535
353	5e+12	NDD	1624.8	1608.7	-16.086
370	5e+12	NDD	1476.1	1440.7	-35.395
377	5e+12	NDD	1732	1702.8	-29.171
389	1e+13	NDD	1691.2	1654	-37.138
394	1e+13	NDD	1521.4	1469.6	-51.79
395	1e+13	NDD	1631.8	1580.4	-51.357
571	1e+13	NDD	1666.1	1592.3	-73.829
649	0	CORRELATION	1673.5	1678.2	4.6869
662	0	CORRELATION	1537.3	1546.4	9.1252
690	0	CORRELATION	1635.1	1652.6	17.443
708	0	CORRELATION	1560.2	1551.7	-8.5425

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	1537.3	1601.5	1673.5	63.613	1546.4	1607.2	1678.2	68.005	-8.5425	5.6782	17.443	10.855
1e+12	1475.3	1558.2	1656.7	79.954	1489.1	1563.8	1663.8	78.772	-0.9641	5.6021	13.86	6.4176
5e+12	1476.1	1622.4	1732	107.39	1440.7	1593.6	1702.8	110.08	-35.395	-28.797	-16.086	8.91
1e+13	1521.4	1627.6	1691.2	74.859	1469.6	1574.1	1654	76.745	-73.829	-53.529	-37.138	15.149

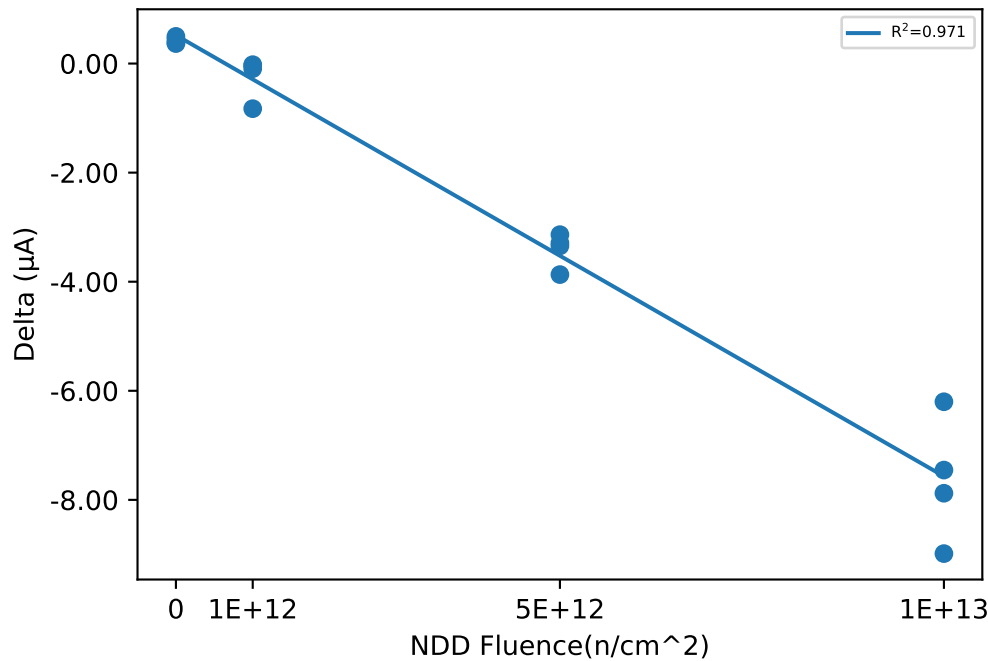
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	117.38	117.36	-0.0204
266	1e+12	NDD	123.25	122.42	-0.8273
267	1e+12	NDD	129.86	129.82	-0.0358
288	1e+12	NDD	133.55	133.46	-0.0936
348	5e+12	NDD	133.92	130.58	-3.343
353	5e+12	NDD	132.29	128.42	-3.8694
370	5e+12	NDD	118.71	115.57	-3.1371
377	5e+12	NDD	141.12	137.83	-3.2884
389	1e+13	NDD	139.59	132.13	-7.4535
394	1e+13	NDD	122.25	116.05	-6.201
395	1e+13	NDD	132.87	124.99	-7.8784
571	1e+13	NDD	135.02	126.04	-8.9851
649	0	CORRELATION	135.52	135.96	0.4431
662	0	CORRELATION	124.02	124.4	0.3823
690	0	CORRELATION	133.96	134.46	0.4983
708	0	CORRELATION	126.3	126.66	0.3662

NDD vs Post - Pre Exposure Delta

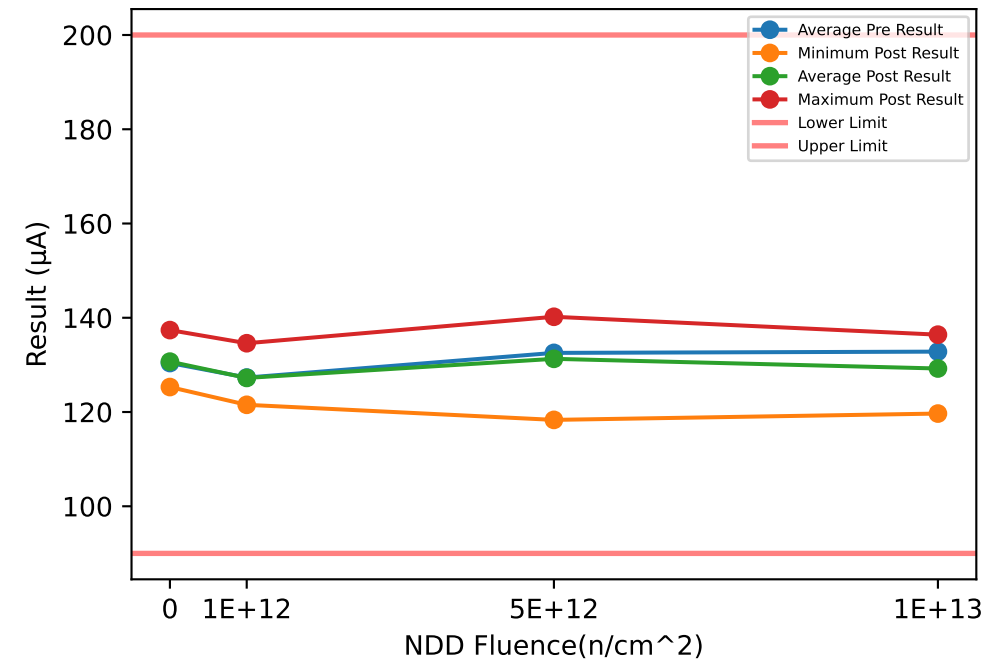


Test Statistics (µA)

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	124.02	129.95	135.52	5.6465	124.4	130.37	135.96	5.6976	0.3662	0.42248	0.4983	0.060431
1e+12	117.38	126.01	133.55	7.1599	117.36	125.77	133.46	7.2453	-0.8273	-0.24428	-0.0204	0.38996
5e+12	118.71	131.51	141.12	9.356	115.57	128.1	137.83	9.2712	-3.8694	-3.4095	-3.1371	0.31875
1e+13	122.25	132.43	139.59	7.3443	116.05	124.8	132.13	6.6325	-8.9851	-7.6295	-6.201	1.1505

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

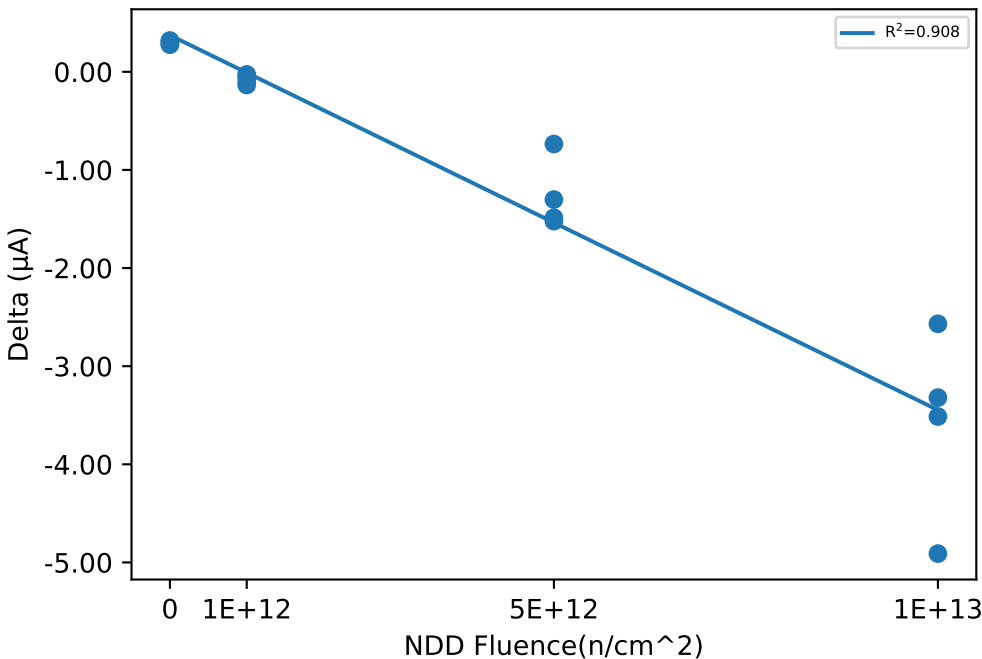
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	121.66	121.53	-0.1345
266	1e+12	NDD	123.69	123.64	-0.0527
267	1e+12	NDD	129.27	129.17	-0.0936
288	1e+12	NDD	134.62	134.59	-0.0266
348	5e+12	NDD	135.14	133.65	-1.4872
353	5e+12	NDD	133.68	132.95	-0.7357
370	5e+12	NDD	119.85	118.33	-1.5218
377	5e+12	NDD	141.51	140.21	-1.302
389	1e+13	NDD	139.73	136.41	-3.3201
394	1e+13	NDD	122.24	119.67	-2.5681
395	1e+13	NDD	133.47	129.96	-3.5131
571	1e+13	NDD	135.81	130.9	-4.9098
649	0	CORRELATION	137.1	137.38	0.281
662	0	CORRELATION	124.99	125.3	0.3099
690	0	CORRELATION	133.28	133.6	0.319
708	0	CORRELATION	126.21	126.49	0.2769

NDD vs Post - Pre Exposure Delta

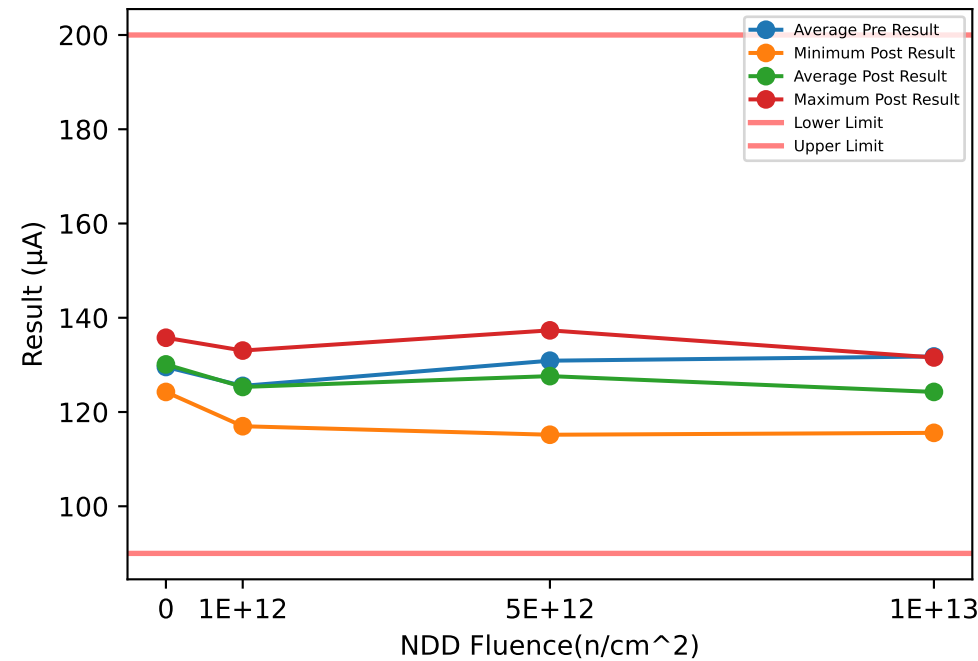


Test Statistics (µA)

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	124.99	130.39	137.1	5.7749	125.3	130.69	137.38	5.7733	0.2769	0.2967	0.319	0.020897
1e+12	121.66	127.31	134.62	5.8382	121.53	127.23	134.59	5.871	-0.1345	-0.07685	-0.0266	0.047302
5e+12	119.85	132.55	141.51	9.1206	118.33	131.29	140.21	9.235	-1.5218	-1.2617	-0.7357	0.36369
1e+13	122.24	132.81	139.73	7.5078	119.67	129.23	136.41	6.9829	-4.9098	-3.5778	-2.5681	0.97712

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

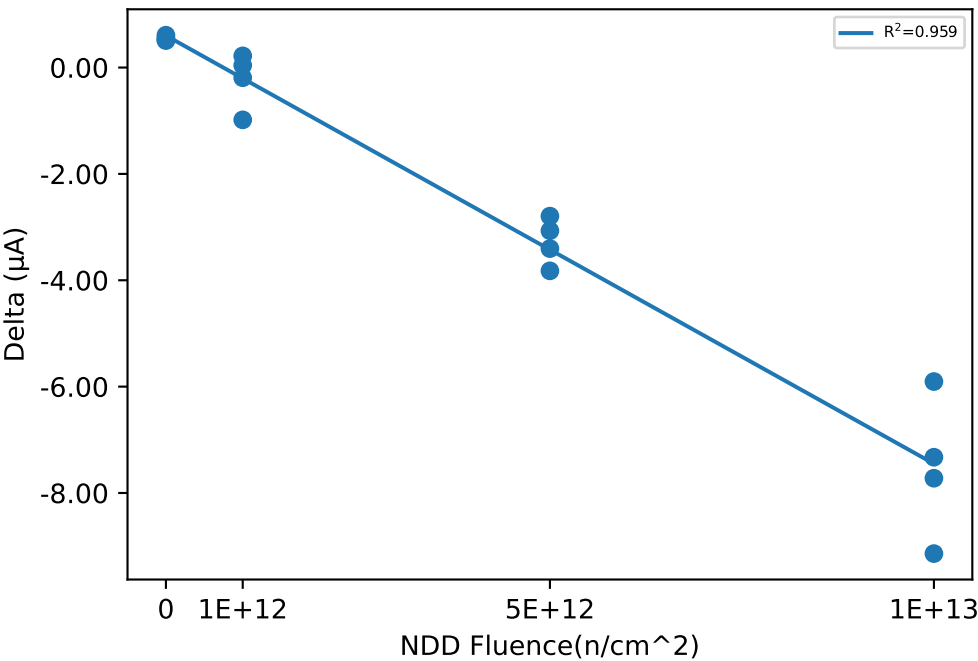
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	117.18	116.99	-0.1914
266	1e+12	NDD	123.06	122.08	-0.9835
267	1e+12	NDD	129.12	129.16	0.0418
288	1e+12	NDD	132.82	133.04	0.2197
348	5e+12	NDD	133.45	130.05	-3.4044
353	5e+12	NDD	131.74	127.92	-3.8227
370	5e+12	NDD	117.97	115.18	-2.7938
377	5e+12	NDD	140.4	137.33	-3.0687
389	1e+13	NDD	138.9	131.57	-7.3274
394	1e+13	NDD	121.48	115.58	-5.9045
395	1e+13	NDD	132.37	124.65	-7.7225
571	1e+13	NDD	134.4	125.26	-9.1399
649	0	CORRELATION	135.24	135.76	0.521
662	0	CORRELATION	123.7	124.26	0.554
690	0	CORRELATION	133.43	134.04	0.6084
708	0	CORRELATION	125.85	126.35	0.5074

NDD vs Post - Pre Exposure Delta

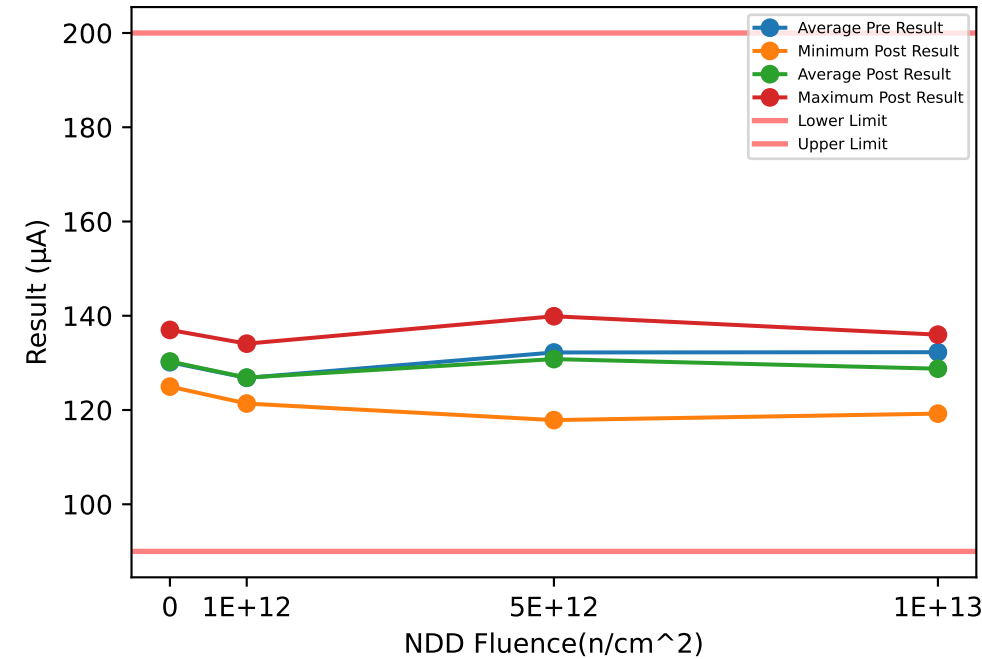


Test Statistics (µA)

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	123.7	129.55	135.24	5.6365	124.26	130.1	135.76	5.6483	0.5074	0.5477	0.6084	0.044949
1e+12	117.18	125.55	132.82	6.8774	116.99	125.32	133.04	7.1723	-0.9835	-0.22835	0.2197	0.53083
5e+12	117.97	130.89	140.4	9.3901	115.18	127.62	137.33	9.2197	-3.8227	-3.2724	-2.7938	0.44377
1e+13	121.48	131.79	138.9	7.3921	115.58	124.26	131.57	6.5827	-9.1399	-7.5236	-5.9045	1.3307

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

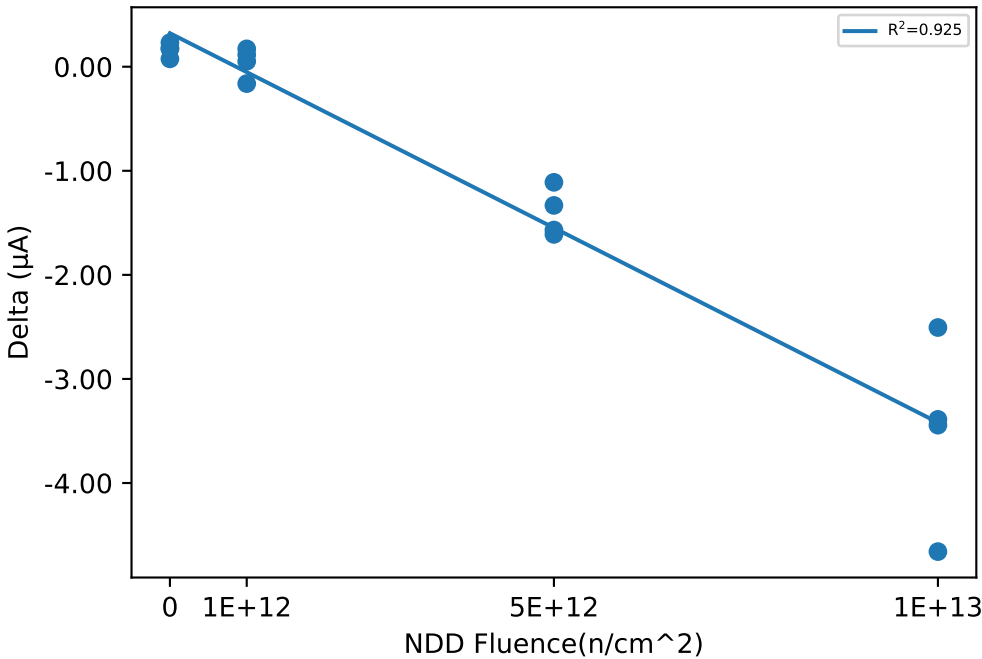
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	121.26	121.37	0.1157
266	1e+12	NDD	123.36	123.2	-0.1622
267	1e+12	NDD	128.64	128.81	0.1717
288	1e+12	NDD	134.03	134.08	0.0525
348	5e+12	NDD	134.78	133.17	-1.6111
353	5e+12	NDD	133.4	132.29	-1.1108
370	5e+12	NDD	119.43	117.86	-1.5689
377	5e+12	NDD	141.23	139.9	-1.3326
389	1e+13	NDD	139.44	135.99	-3.4441
394	1e+13	NDD	121.74	119.23	-2.5058
395	1e+13	NDD	132.81	129.42	-3.3885
571	1e+13	NDD	135.09	130.43	-4.6589
649	0	CORRELATION	136.82	136.99	0.1715
662	0	CORRELATION	124.9	124.97	0.0754
690	0	CORRELATION	133.09	133.27	0.1789
708	0	CORRELATION	125.74	125.97	0.2311

NDD vs Post - Pre Exposure Delta

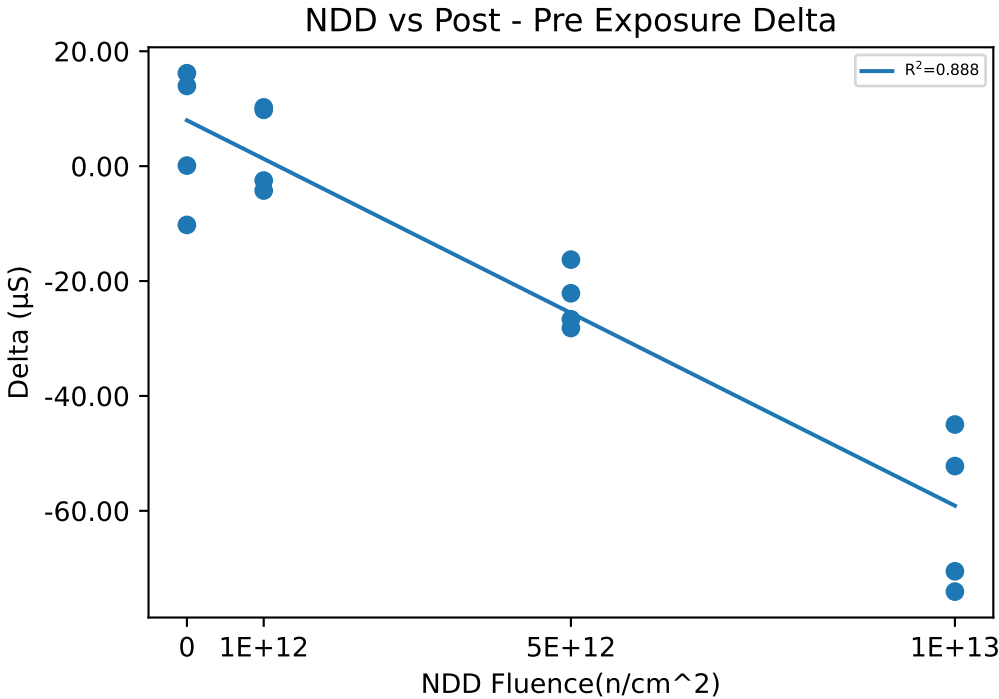
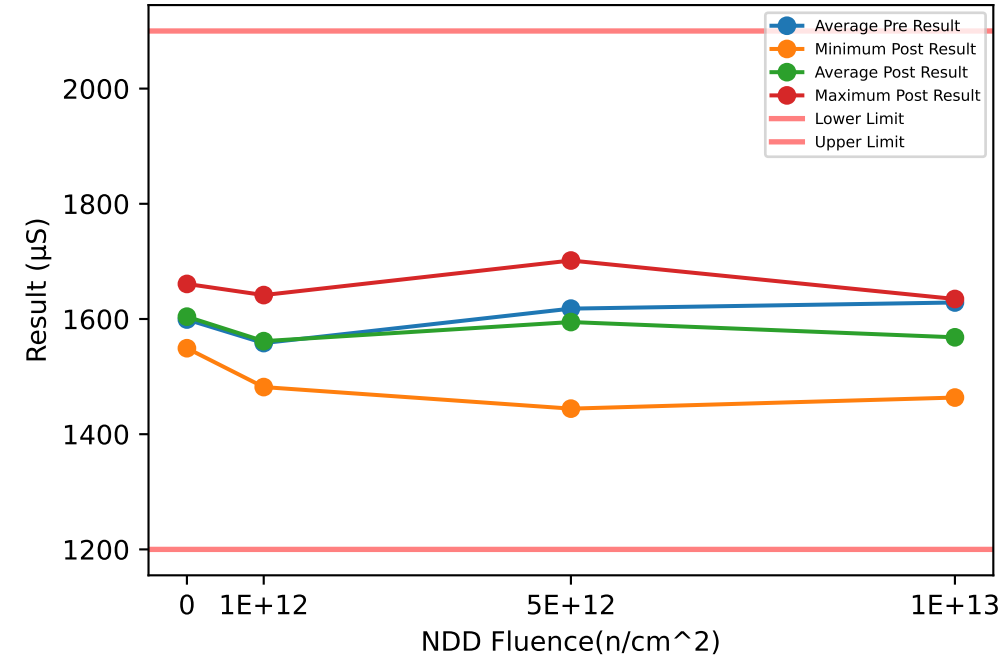


Test Statistics (µA)

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	124.9	130.14	136.82	5.7796	124.97	130.3	136.99	5.7951	0.0754	0.16423	0.2311	0.064886
1e+12	121.26	126.82	134.03	5.7199	121.37	126.87	134.08	5.7571	-0.1622	0.044425	0.1717	0.1461
5e+12	119.43	132.21	141.23	9.1784	117.86	130.81	139.9	9.2741	-1.6111	-1.4058	-1.1108	0.23176
1e+13	121.74	132.27	139.44	7.5388	119.23	128.77	135.99	6.9831	-4.6589	-3.4993	-2.5058	0.8845

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

NDD vs Result Stats



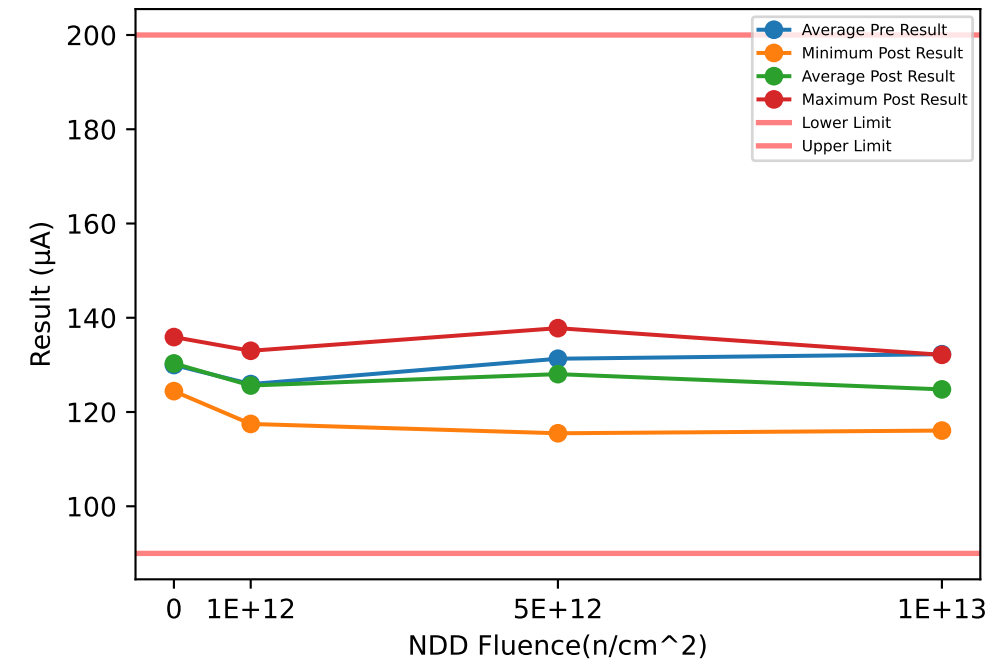
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1486.1	1481.8	-4.2461
266	1e+12	NDD	1513.2	1523	9.8015
267	1e+12	NDD	1589.5	1599.8	10.231
288	1e+12	NDD	1644	1641.5	-2.5013
348	5e+12	NDD	1646.7	1624.6	-22.133
353	5e+12	NDD	1634.9	1608.3	-26.652
370	5e+12	NDD	1472.6	1444.4	-28.176
377	5e+12	NDD	1717.8	1701.5	-16.272
389	1e+13	NDD	1708.8	1634.7	-74.061
394	1e+13	NDD	1508.6	1463.6	-44.977
395	1e+13	NDD	1632	1579.8	-52.212
571	1e+13	NDD	1665.2	1594.6	-70.525
649	0	CORRELATION	1671.1	1660.9	-10.232
662	0	CORRELATION	1533.1	1549.3	16.181
690	0	CORRELATION	1633.5	1647.5	13.956
708	0	CORRELATION	1558.6	1558.6	0.0941

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	1533.1	1599.1	1671.1	64.227	1549.3	1604.1	1660.9	58.255	-10.232	4.9998	16.181	12.4
1e+12	1486.1	1558.2	1644	72.052	1481.8	1561.5	1641.5	72.338	-4.2461	3.3213	10.231	7.7654
5e+12	1472.6	1618	1717.8	103.65	1444.4	1594.7	1701.5	108.15	-28.176	-23.308	-16.272	5.3467
1e+13	1508.6	1628.6	1708.8	85.99	1463.6	1568.2	1634.7	73.483	-74.061	-60.444	-44.977	14.072

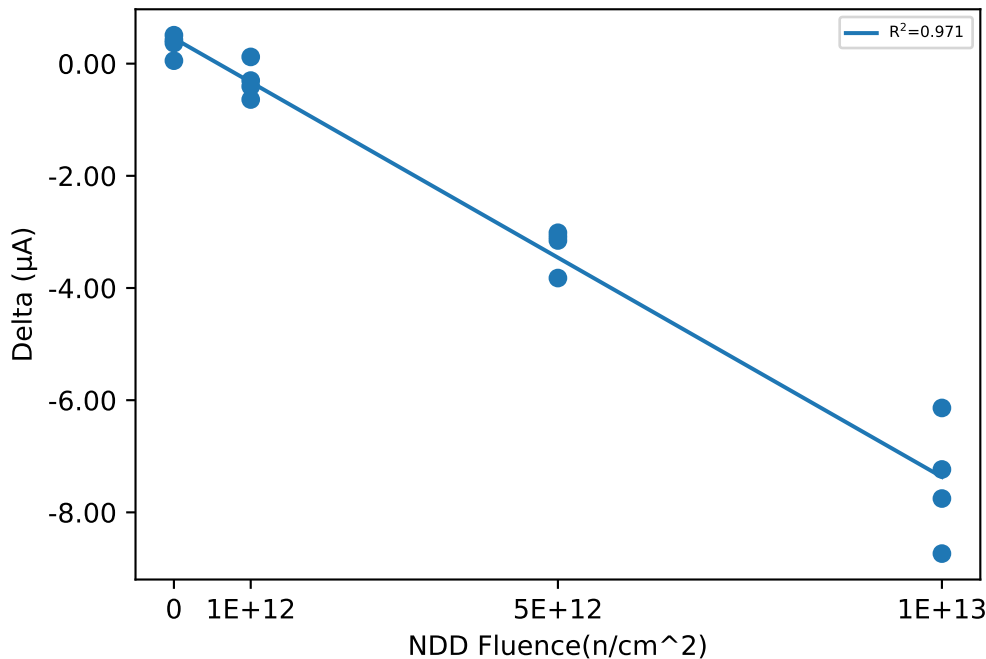
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	117.35	117.47	0.12
266	1e+12	NDD	123.23	122.59	-0.6399
267	1e+12	NDD	129.73	129.43	-0.3016
288	1e+12	NDD	133.4	132.99	-0.4052
348	5e+12	NDD	133.56	130.54	-3.0151
353	5e+12	NDD	132.15	128.32	-3.8225
370	5e+12	NDD	118.64	115.49	-3.1528
377	5e+12	NDD	140.88	137.8	-3.0852
389	1e+13	NDD	139.37	132.13	-7.2349
394	1e+13	NDD	122.2	116.06	-6.1385
395	1e+13	NDD	132.76	125.01	-7.7535
571	1e+13	NDD	134.74	126.01	-8.7351
649	0	CORRELATION	135.85	135.9	0.0527
662	0	CORRELATION	123.92	124.43	0.5072
690	0	CORRELATION	133.88	134.3	0.4204
708	0	CORRELATION	126.24	126.6	0.3664

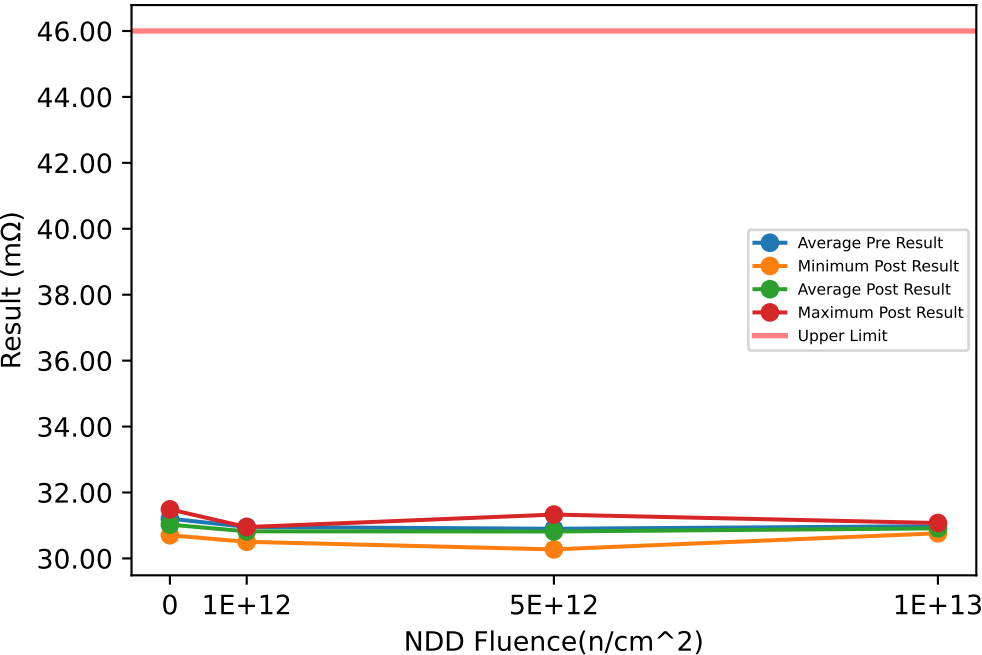
NDD vs Post - Pre Exposure Delta



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	123.92	129.97	135.85	5.7842	124.43	130.31	135.9	5.6427	0.0527	0.33668	0.5072	0.198
1e+12	117.35	125.93	133.4	7.0973	117.47	125.62	132.99	6.9393	-0.6399	-0.30668	0.12	0.31771
5e+12	118.64	131.31	140.88	9.27	115.49	128.04	137.8	9.2917	-3.8225	-3.2689	-3.0151	0.37332
1e+13	122.2	132.27	139.37	7.2601	116.06	124.8	132.13	6.6239	-8.7351	-7.4655	-6.1385	1.0815

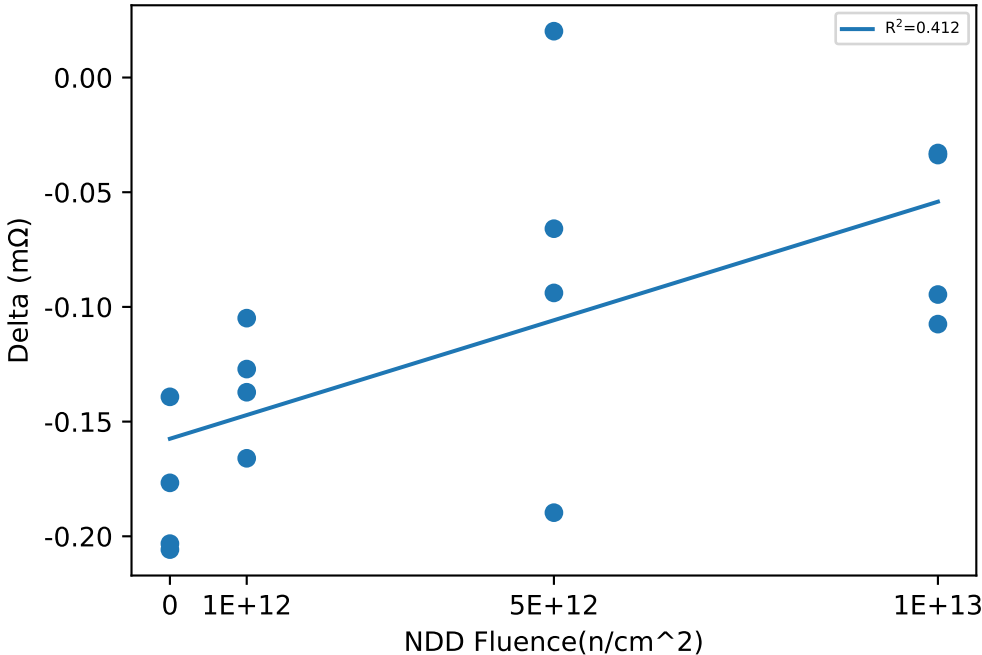
NDD vs Result Stats



Test Results (Upper Limit = 46.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	31.092	30.926	-0.166
266	1e+12	NDD	31.055	30.951	-0.1049
267	1e+12	NDD	31.032	30.905	-0.1271
288	1e+12	NDD	30.641	30.504	-0.1372
348	5e+12	NDD	30.729	30.539	-0.1897
353	5e+12	NDD	31.22	31.126	-0.0939
370	5e+12	NDD	30.253	30.274	0.0202
377	5e+12	NDD	31.396	31.33	-0.0659
389	1e+13	NDD	31.088	30.98	-0.1075
394	1e+13	NDD	31.107	31.074	-0.0338
395	1e+13	NDD	30.857	30.763	-0.0946
571	1e+13	NDD	30.861	30.828	-0.0329
649	0	CORRELATION	31.023	30.847	-0.1767
662	0	CORRELATION	31.202	31.063	-0.1392
690	0	CORRELATION	31.691	31.488	-0.2032
708	0	CORRELATION	30.909	30.703	-0.2058

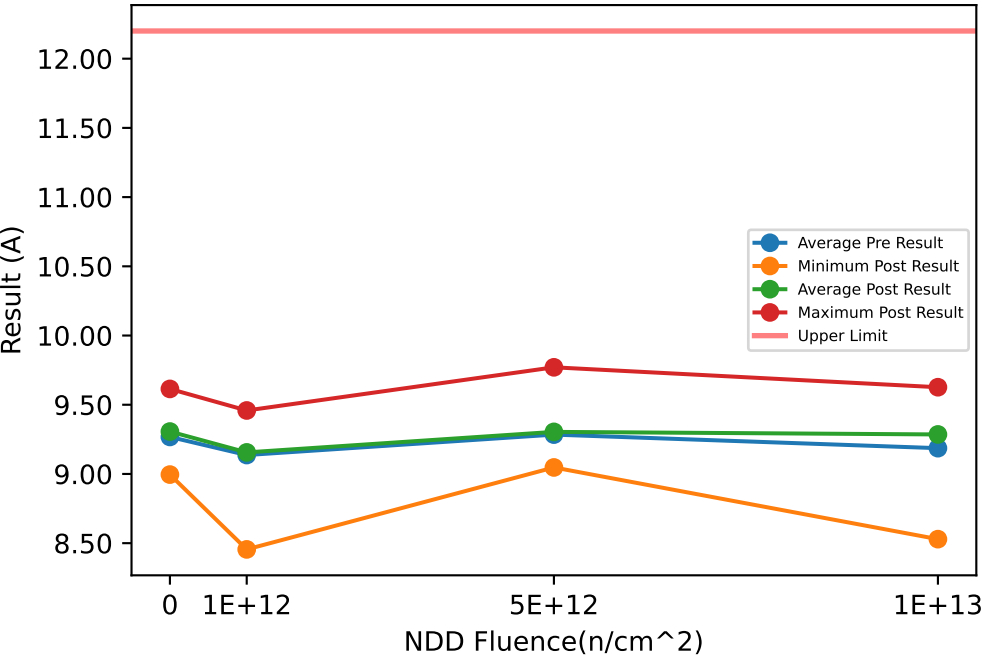
NDD vs Post - Pre Exposure Delta



Test Statistics (mΩ)

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	30.909	31.206	31.691	0.34485	30.703	31.025	31.488	0.34201	-0.2058	-0.18122	-0.1392	0.030948
1e+12	30.641	30.955	31.092	0.21068	30.504	30.821	30.951	0.21232	-0.166	-0.1338	-0.1049	0.025354
5e+12	30.253	30.9	31.396	0.51507	30.274	30.817	31.33	0.49376	-0.1897	-0.082325	0.0202	0.086496
1e+13	30.857	30.978	31.107	0.13785	30.763	30.911	31.074	0.1415	-0.1075	-0.0672	-0.0329	0.039442

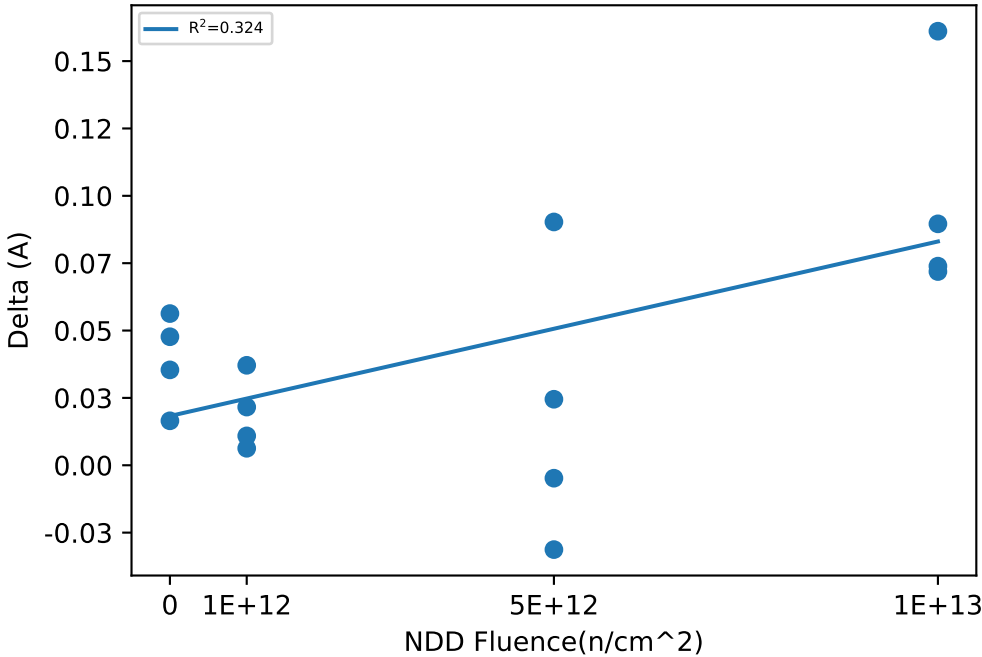
NDD vs Result Stats



Test Results (Upper Limit = 12.2 (A))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	9.4059	9.443	0.0371
266	1e+12	NDD	9.2554	9.2663	0.0109
267	1e+12	NDD	9.4523	9.4586	0.0063
288	1e+12	NDD	8.4334	8.455	0.0216
348	5e+12	NDD	9.8017	9.7704	-0.0313
353	5e+12	NDD	9.1911	9.2814	0.0903
370	5e+12	NDD	9.0225	9.047	0.0245
377	5e+12	NDD	9.1218	9.117	-0.0048
389	1e+13	NDD	8.4394	8.529	0.0896
394	1e+13	NDD	9.4655	9.6266	0.1611
395	1e+13	NDD	9.4371	9.509	0.0719
571	1e+13	NDD	9.4034	9.4773	0.0739
649	0	CORRELATION	8.9392	8.9955	0.0563
662	0	CORRELATION	9.5494	9.5659	0.0165
690	0	CORRELATION	9.5666	9.6143	0.0477
708	0	CORRELATION	9.0146	9.05	0.0354

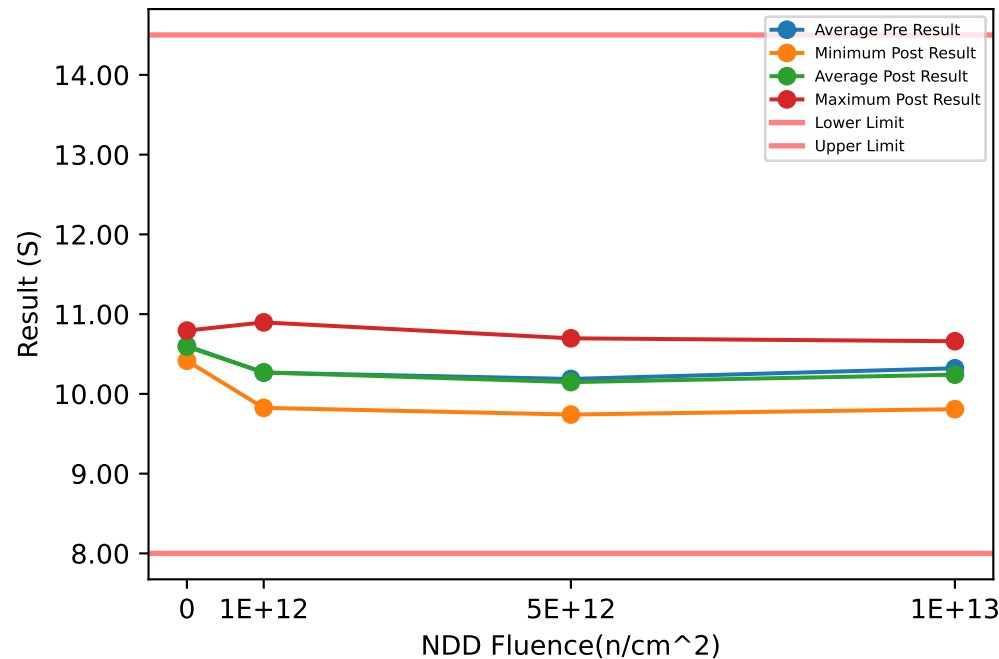
NDD vs Post - Pre Exposure Delta



Test Statistics (A)

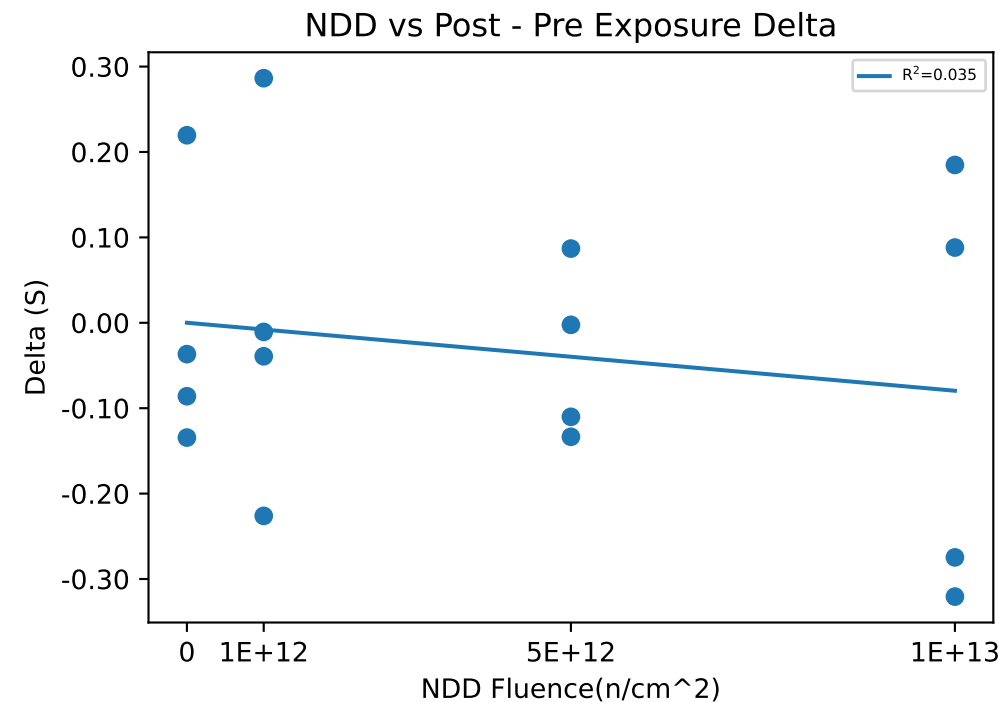
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	8.9392	9.2675	9.5666	0.33698	8.9955	9.3064	9.6143	0.32891	0.0165	0.038975	0.0563	0.017264
1e+12	8.4334	9.1367	9.4523	0.47637	8.455	9.1557	9.4586	0.47522	0.0063	0.018975	0.0371	0.013678
5e+12	9.0225	9.2843	9.8017	0.35182	9.047	9.304	9.7704	0.32612	-0.0313	0.019675	0.0903	0.052309
1e+13	8.4394	9.1863	9.4655	0.49861	8.529	9.2855	9.6266	0.50839	0.0719	0.099125	0.1611	0.042068

NDD vs Result Stats



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

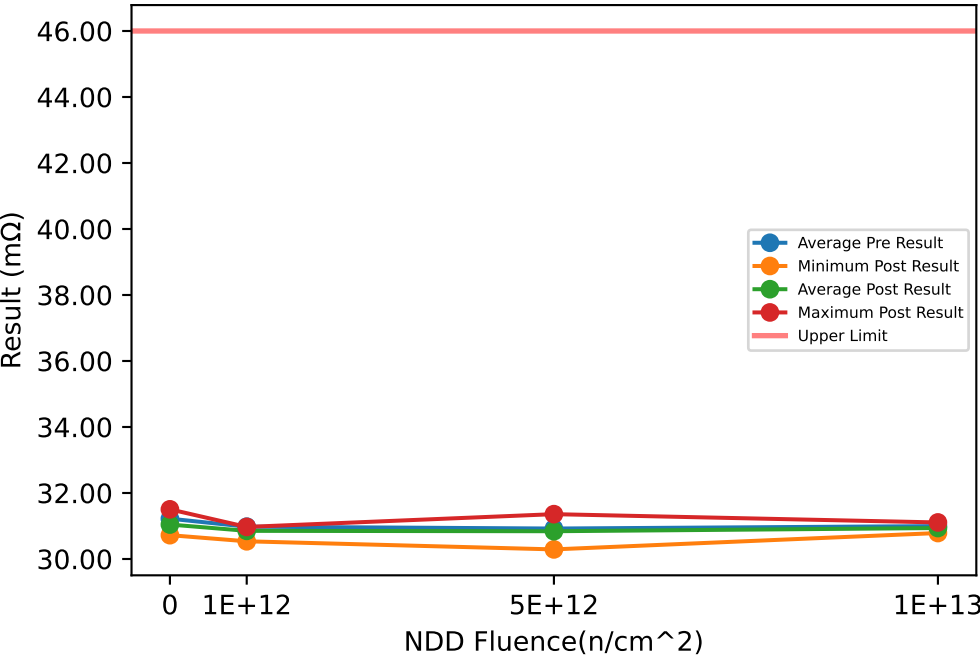
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	10.043	10.004	-0.0392
266	1e+12	NDD	10.051	9.8247	-0.2261
267	1e+12	NDD	10.907	10.897	-0.0107
288	1e+12	NDD	10.066	10.352	0.2864
348	5e+12	NDD	10.807	10.697	-0.1101
353	5e+12	NDD	9.8999	9.9868	0.0869
370	5e+12	NDD	10.168	10.166	-0.0024
377	5e+12	NDD	9.8744	9.7409	-0.1335
389	1e+13	NDD	9.8393	10.024	0.1848
394	1e+13	NDD	10.083	9.8085	-0.2747
395	1e+13	NDD	10.79	10.469	-0.3206
571	1e+13	NDD	10.572	10.66	0.0881
649	0	CORRELATION	10.574	10.794	0.2196
662	0	CORRELATION	10.757	10.671	-0.086
690	0	CORRELATION	10.452	10.415	-0.0367
708	0	CORRELATION	10.625	10.49	-0.1344



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	10.452	10.602	10.757	0.126	10.415	10.593	10.794	0.17167	-0.1344	-0.009375	0.2196	0.15777
1e+12	10.043	10.267	10.907	0.4272	9.8247	10.269	10.897	0.47209	-0.2261	0.0026	0.2864	0.21195
5e+12	9.8744	10.187	10.807	0.43389	9.7409	10.148	10.697	0.40547	-0.1335	-0.039775	0.0869	0.10194
1e+13	9.8393	10.321	10.79	0.43639	9.8085	10.24	10.66	0.39237	-0.3206	-0.0806	0.1848	0.25441

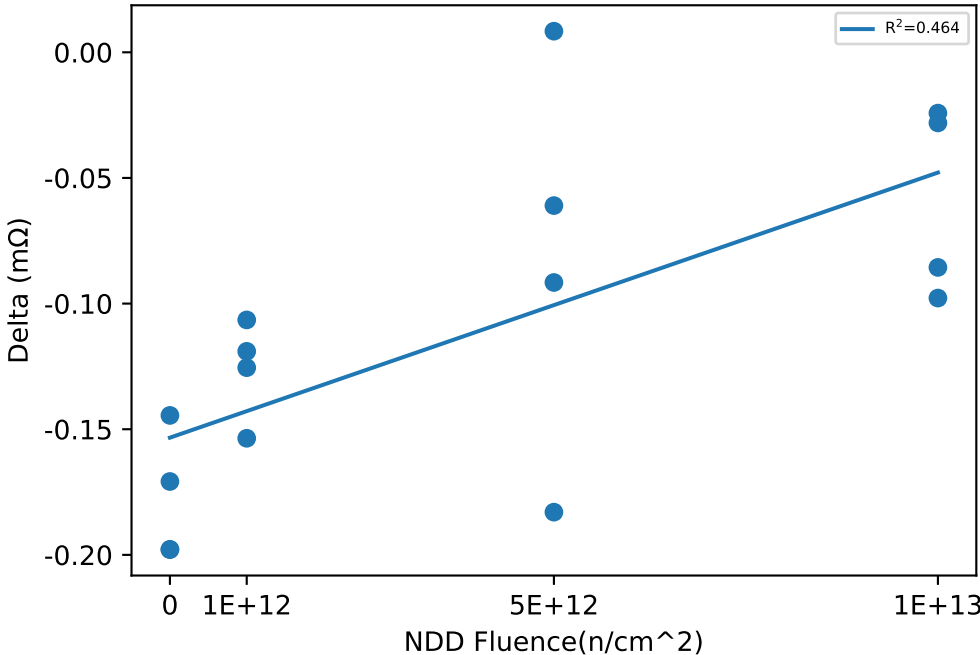
NDD vs Result Stats



Test Results (Upper Limit = 46.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	31.116	30.962	-0.1536
266	1e+12	NDD	31.078	30.971	-0.1065
267	1e+12	NDD	31.061	30.942	-0.119
288	1e+12	NDD	30.662	30.536	-0.1255
348	5e+12	NDD	30.75	30.567	-0.183
353	5e+12	NDD	31.241	31.149	-0.0916
370	5e+12	NDD	30.282	30.291	0.0084
377	5e+12	NDD	31.419	31.358	-0.061
389	1e+13	NDD	31.103	31.005	-0.0978
394	1e+13	NDD	31.132	31.108	-0.0242
395	1e+13	NDD	30.872	30.787	-0.0856
571	1e+13	NDD	30.88	30.852	-0.0281
649	0	CORRELATION	31.038	30.867	-0.1708
662	0	CORRELATION	31.226	31.082	-0.1445
690	0	CORRELATION	31.703	31.505	-0.1978
708	0	CORRELATION	30.92	30.722	-0.1979

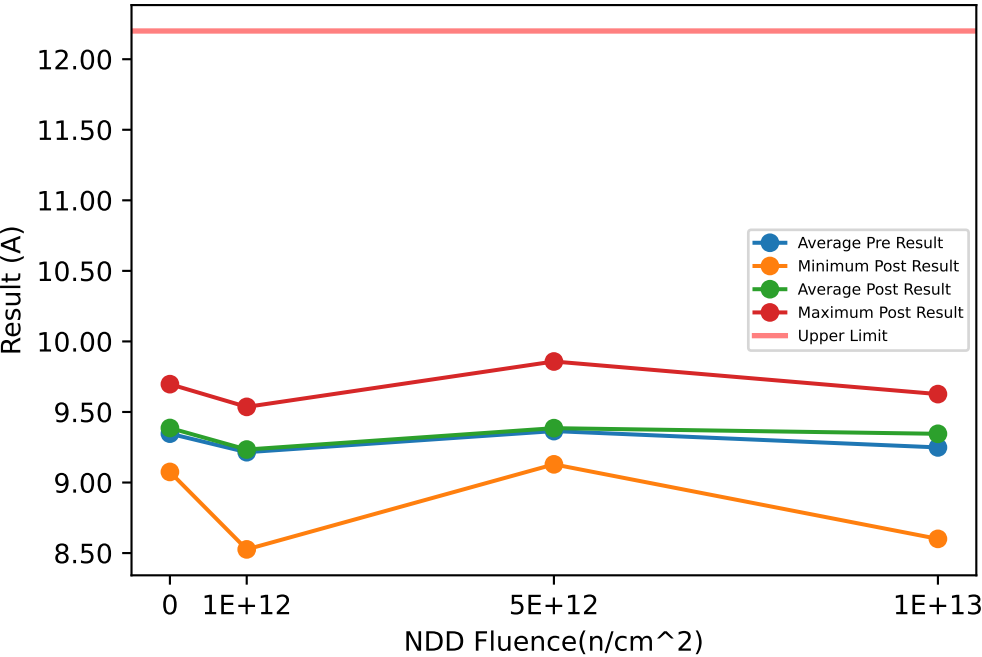
NDD vs Post - Pre Exposure Delta



Test Statistics (mΩ)

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	30.92	31.222	31.703	0.34471	30.722	31.044	31.505	0.34111	-0.1979	-0.17775	-0.1445	0.025573
1e+12	30.662	30.979	31.116	0.21278	30.536	30.853	30.971	0.21147	-0.1536	-0.12615	-0.1065	0.019926
5e+12	30.282	30.923	31.419	0.51246	30.291	30.841	31.358	0.49687	-0.183	-0.0818	0.0084	0.079385
1e+13	30.872	30.997	31.132	0.13959	30.787	30.938	31.108	0.1454	-0.0978	-0.058925	-0.0242	0.038205

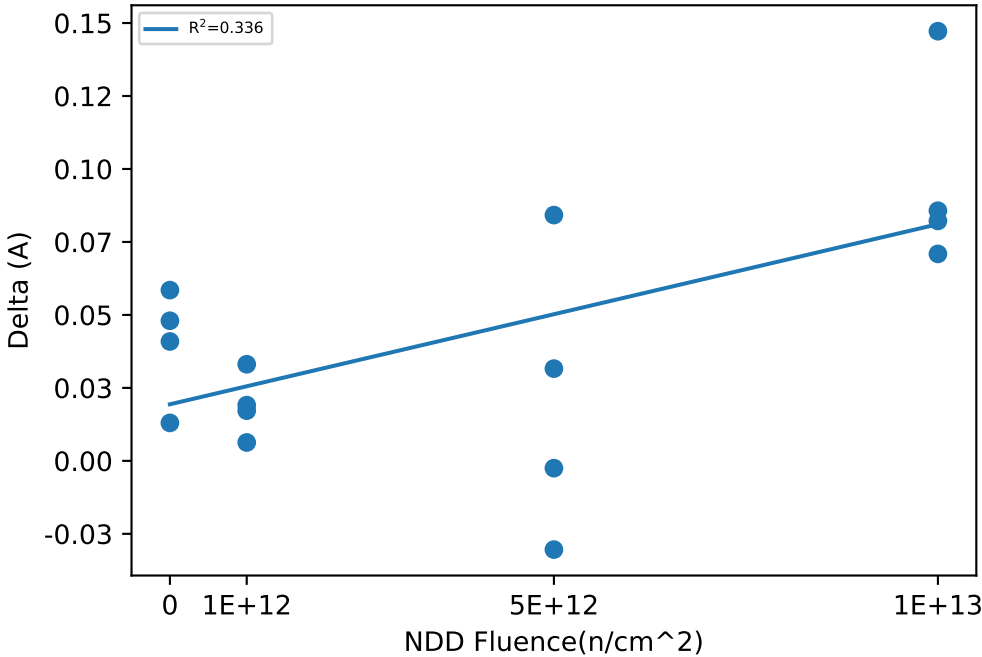
NDD vs Result Stats



Test Results (Upper Limit = 12.2 (A))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	9.4886	9.5217	0.0331
266	1e+12	NDD	9.3341	9.3513	0.0172
267	1e+12	NDD	9.5298	9.5361	0.0063
288	1e+12	NDD	8.507	8.5261	0.0191
348	5e+12	NDD	9.8882	9.8578	-0.0304
353	5e+12	NDD	9.2763	9.3605	0.0842
370	5e+12	NDD	9.0973	9.1289	0.0316
377	5e+12	NDD	9.1965	9.194	-0.0025
389	1e+13	NDD	8.515	8.6007	0.0857
394	1e+13	NDD	9.5445	9.6267	0.0822
395	1e+13	NDD	9.5228	9.5937	0.0709
571	1e+13	NDD	9.4129	9.5601	0.1472
649	0	CORRELATION	9.0166	9.0751	0.0585
662	0	CORRELATION	9.6313	9.6443	0.013
690	0	CORRELATION	9.6491	9.6971	0.048
708	0	CORRELATION	9.0885	9.1294	0.0409

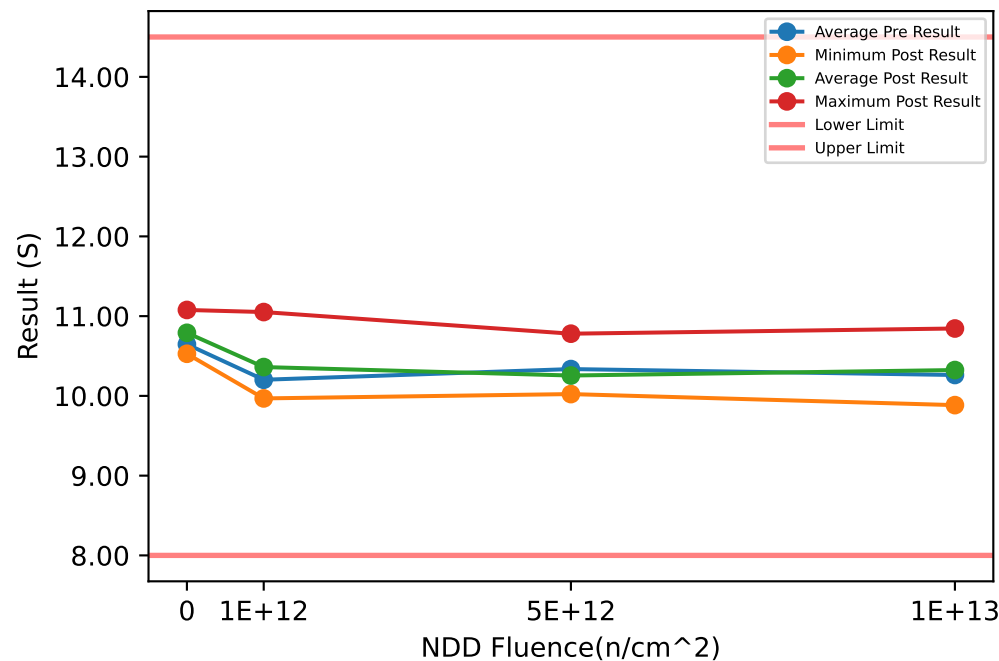
NDD vs Post - Pre Exposure Delta



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	9.0166	9.3464	9.6491	0.34062	9.0751	9.3865	9.6971	0.32965	0.013	0.0401	0.0585	0.01946
1e+12	8.507	9.2149	9.5298	0.47938	8.5261	9.2338	9.5361	0.47921	0.0063	0.018925	0.0331	0.011005
5e+12	9.0973	9.3646	9.8882	0.35668	9.1289	9.3853	9.8578	0.32975	-0.0304	0.020725	0.0842	0.049331
1e+13	8.515	9.2488	9.5445	0.49258	8.6007	9.3453	9.6267	0.49714	0.0709	0.0965	0.1472	0.034385

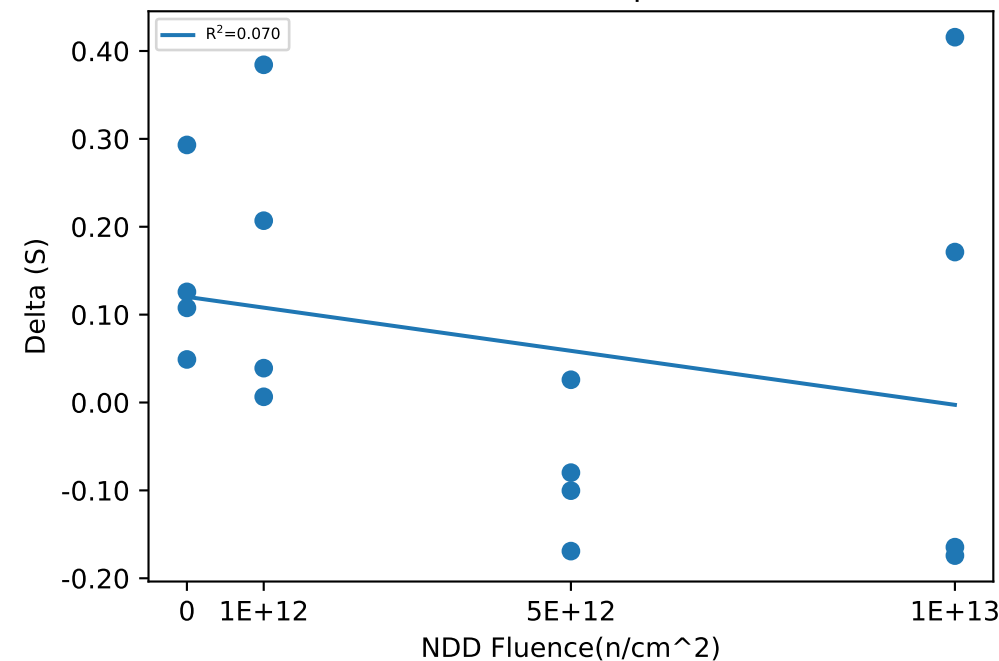
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	10.244	10.251	0.0065
266	1e+12	NDD	9.7615	9.9684	0.2069
267	1e+12	NDD	11.012	11.051	0.0391
288	1e+12	NDD	9.7915	10.176	0.3843
348	5e+12	NDD	10.949	10.78	-0.1691
353	5e+12	NDD	10.066	10.091	0.0259
370	5e+12	NDD	10.228	10.128	-0.1003
377	5e+12	NDD	10.102	10.023	-0.0798
389	1e+13	NDD	10.058	9.8842	-0.1742
394	1e+13	NDD	10.216	10.051	-0.1646
395	1e+13	NDD	10.345	10.516	0.1712
571	1e+13	NDD	10.429	10.845	0.4157
649	0	CORRELATION	10.473	10.766	0.2931
662	0	CORRELATION	10.952	11.078	0.1259
690	0	CORRELATION	10.42	10.528	0.1077
708	0	CORRELATION	10.743	10.792	0.049

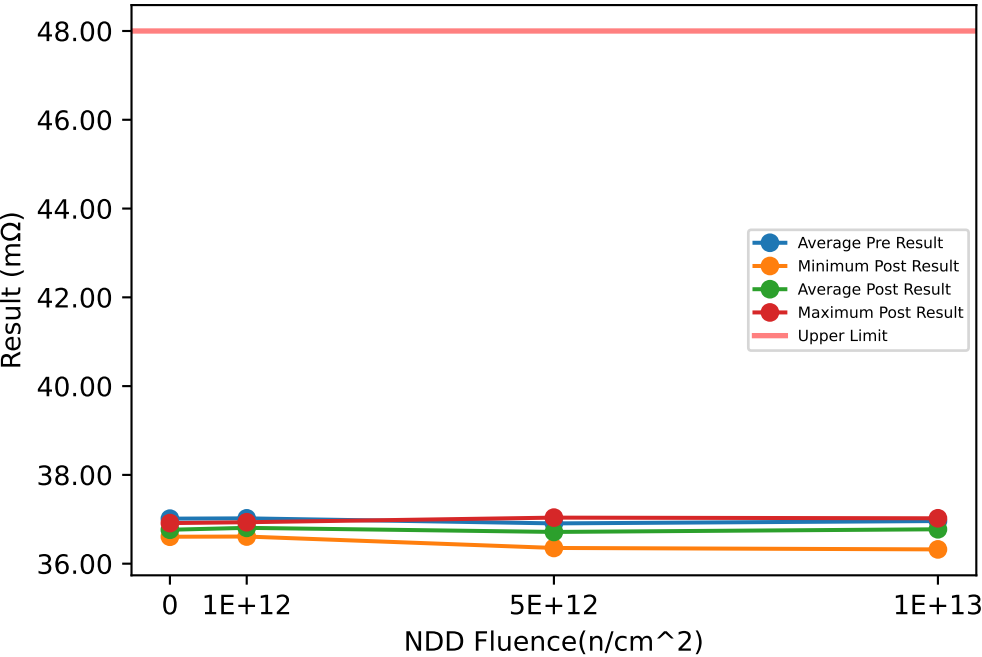
NDD vs Post - Pre Exposure Delta



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	10.42	10.647	10.952	0.24747	10.528	10.791	11.078	0.22497	0.049	0.14393	0.2931	0.10472
1e+12	9.7615	10.202	11.012	0.58326	9.9684	10.361	11.051	0.47505	0.0065	0.1592	0.3843	0.17386
5e+12	10.066	10.336	10.949	0.41439	10.023	10.255	10.78	0.35236	-0.1691	-0.080825	0.0259	0.080753
1e+13	10.058	10.262	10.429	0.16177	9.8842	10.324	10.845	0.43834	-0.1742	0.062025	0.4157	0.28529

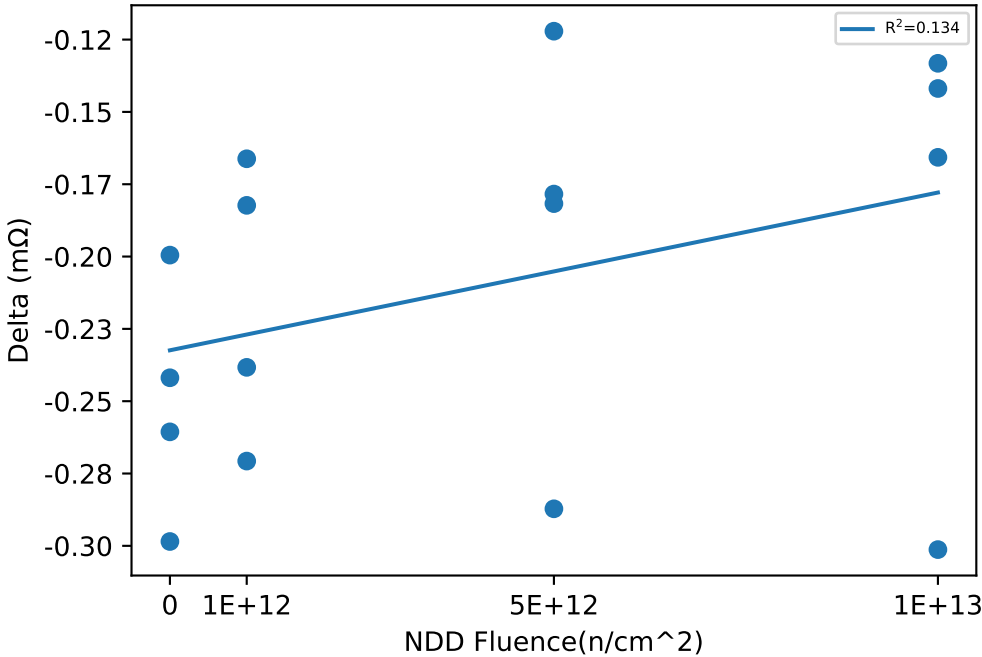
NDD vs Result Stats



Test Results (Upper Limit = 48.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	37.204	36.934	-0.2707
266	1e+12	NDD	36.778	36.611	-0.1662
267	1e+12	NDD	36.96	36.778	-0.1823
288	1e+12	NDD	37.143	36.905	-0.2383
348	5e+12	NDD	36.641	36.354	-0.2872
353	5e+12	NDD	36.805	36.623	-0.1817
370	5e+12	NDD	37.16	37.038	-0.1221
377	5e+12	NDD	37.023	36.845	-0.1784
389	1e+13	NDD	37.231	36.93	-0.3013
394	1e+13	NDD	37.164	37.023	-0.1419
395	1e+13	NDD	36.959	36.826	-0.1332
571	1e+13	NDD	36.487	36.322	-0.1657
649	0	CORRELATION	36.849	36.607	-0.2419
662	0	CORRELATION	36.821	36.622	-0.1995
690	0	CORRELATION	37.175	36.914	-0.2606
708	0	CORRELATION	37.212	36.914	-0.2985

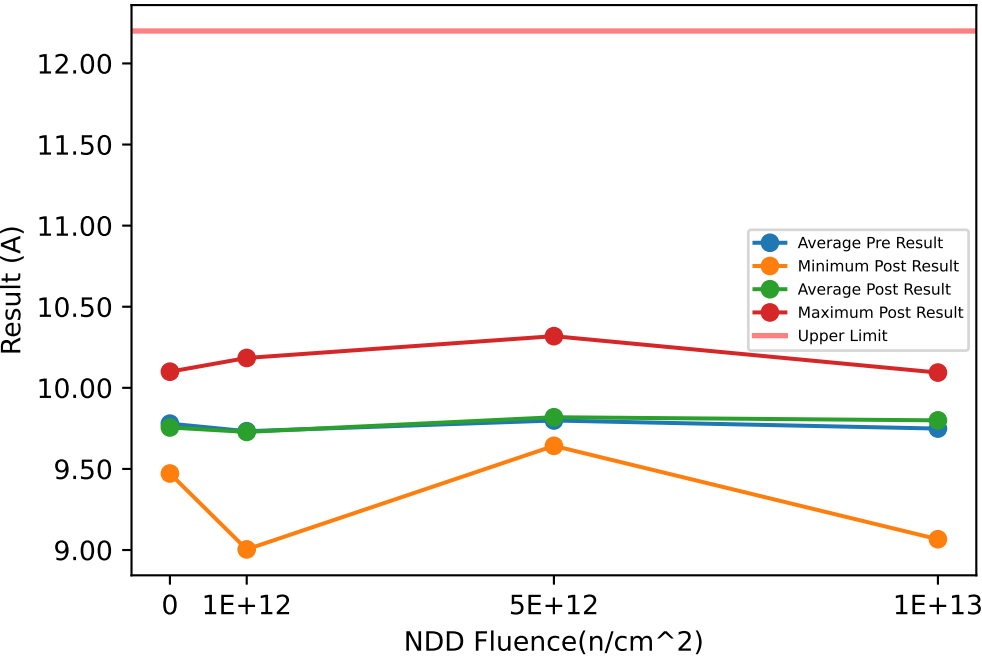
NDD vs Post - Pre Exposure Delta



Test Statistics (mΩ)

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	36.821	37.014	37.212	0.20785	36.607	36.764	36.914	0.17311	-0.2985	-0.25012	-0.1995	0.041152
1e+12	36.778	37.021	37.204	0.19283	36.611	36.807	36.934	0.14693	-0.2707	-0.21437	-0.1662	0.04863
5e+12	36.641	36.907	37.16	0.2297	36.354	36.715	37.038	0.2941	-0.2872	-0.19235	-0.1221	0.068895
1e+13	36.487	36.96	37.231	0.33596	36.322	36.775	37.023	0.31268	-0.3013	-0.18553	-0.1332	0.078396

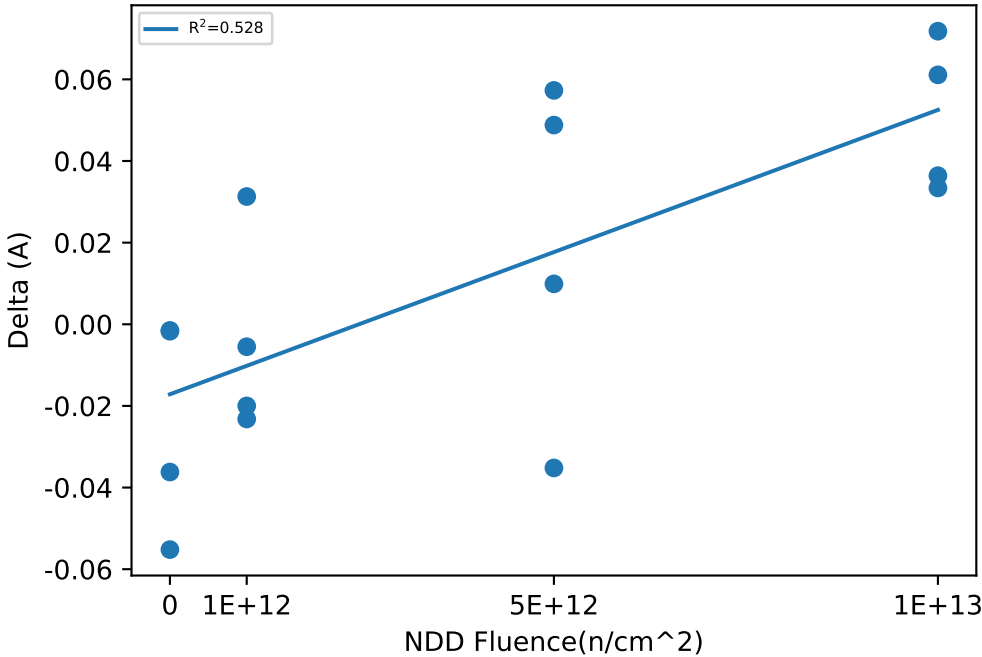
NDD vs Result Stats



Test Results (Upper Limit = 12.2 (A))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	9.8743	9.8688	-0.0055
266	1e+12	NDD	9.8757	9.8557	-0.02
267	1e+12	NDD	10.153	10.184	0.0313
288	1e+12	NDD	9.0271	9.0039	-0.0232
348	5e+12	NDD	10.309	10.319	0.0099
353	5e+12	NDD	9.6092	9.658	0.0488
370	5e+12	NDD	9.5987	9.656	0.0573
377	5e+12	NDD	9.6775	9.6423	-0.0352
389	1e+13	NDD	9.0054	9.0665	0.0611
394	1e+13	NDD	10.061	10.094	0.0334
395	1e+13	NDD	9.9018	9.9736	0.0718
571	1e+13	NDD	10.027	10.064	0.0364
649	0	CORRELATION	9.4736	9.4719	-0.0017
662	0	CORRELATION	10.136	10.1	-0.0362
690	0	CORRELATION	9.9332	9.878	-0.0552
708	0	CORRELATION	9.5744	9.5729	-0.0015

NDD vs Post - Pre Exposure Delta

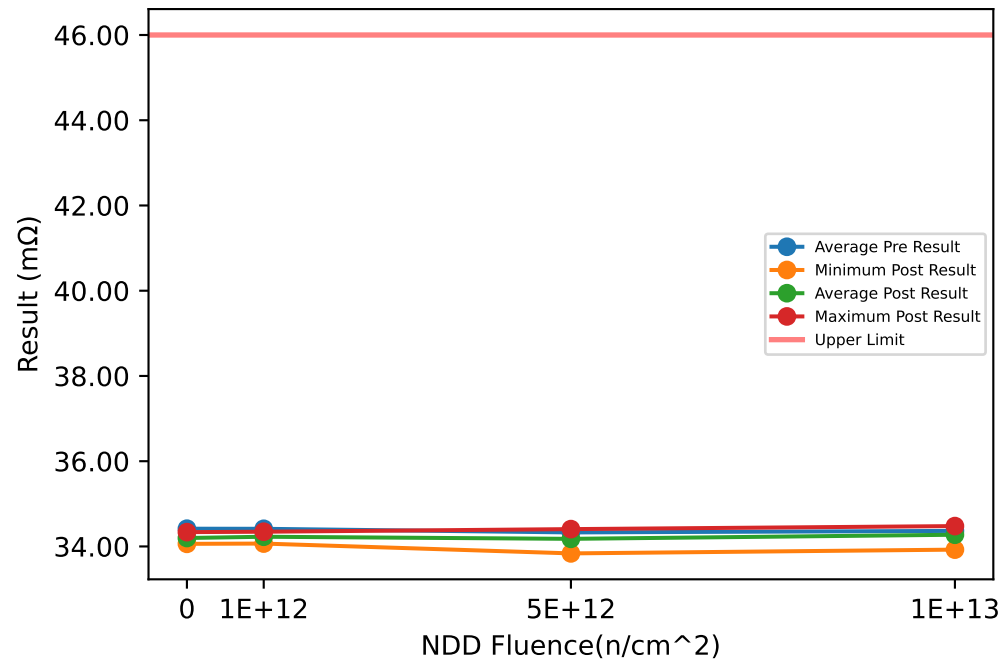


Test Statistics (A)

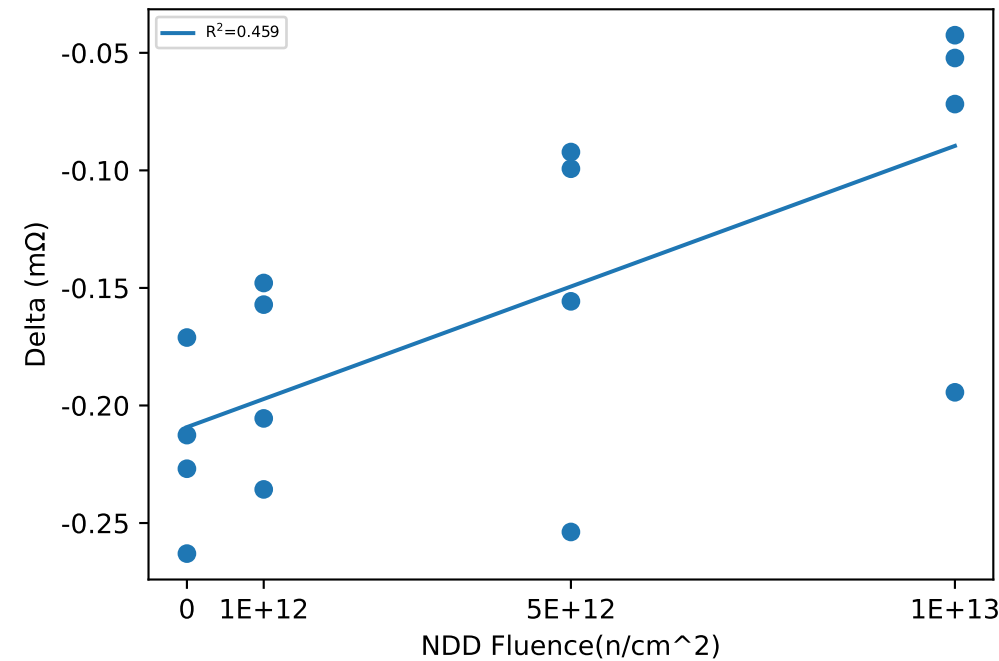
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	9.4736	9.7792	10.136	0.30884	9.4719	9.7556	10.1	0.287	-0.0552	-0.02365	-0.0015	0.026617
1e+12	9.0271	9.7325	10.153	0.48817	9.0039	9.7281	10.184	0.50615	-0.0232	-0.00435	0.0313	0.024983
5e+12	9.5987	9.7985	10.309	0.34191	9.6423	9.8187	10.319	0.33332	-0.0352	0.0202	0.0573	0.042307
1e+13	9.0054	9.7488	10.061	0.5003	9.0665	9.7995	10.094	0.49132	0.0334	0.050675	0.0718	0.018772

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



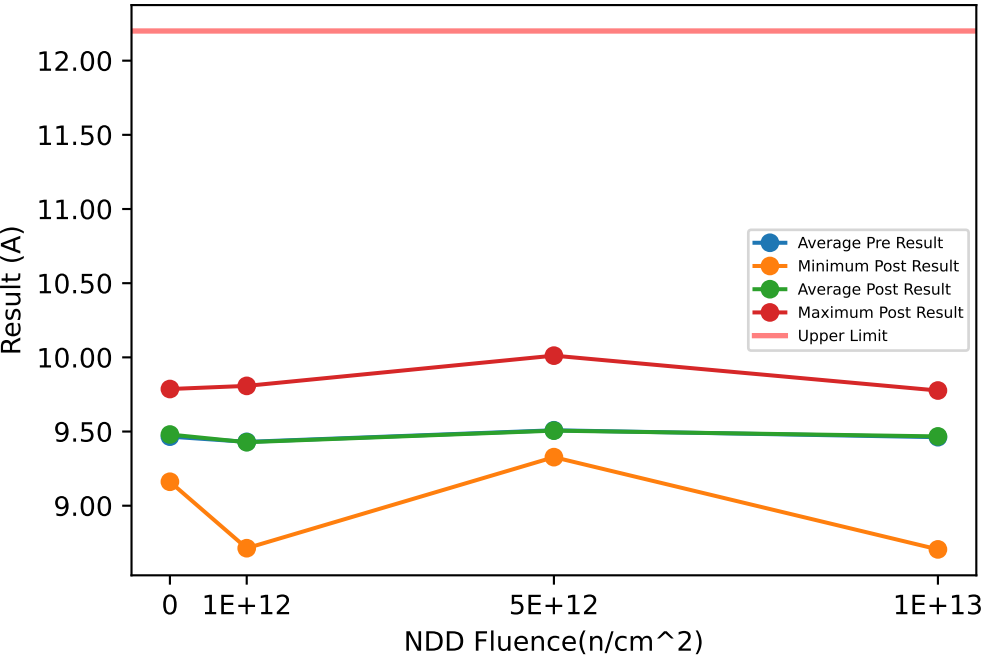
Test Results (Upper Limit = 46.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	34.581	34.345	-0.2357
266	1e+12	NDD	34.215	34.068	-0.1479
267	1e+12	NDD	34.356	34.199	-0.1571
288	1e+12	NDD	34.504	34.298	-0.2055
348	5e+12	NDD	34.091	33.837	-0.2538
353	5e+12	NDD	34.255	34.099	-0.1557
370	5e+12	NDD	34.506	34.407	-0.0993
377	5e+12	NDD	34.463	34.371	-0.0922
389	1e+13	NDD	34.579	34.385	-0.1944
394	1e+13	NDD	34.53	34.477	-0.0522
395	1e+13	NDD	34.353	34.311	-0.0425
571	1e+13	NDD	33.997	33.925	-0.0718
649	0	CORRELATION	34.274	34.061	-0.2126
662	0	CORRELATION	34.245	34.074	-0.1711
690	0	CORRELATION	34.563	34.336	-0.2269
708	0	CORRELATION	34.585	34.322	-0.263

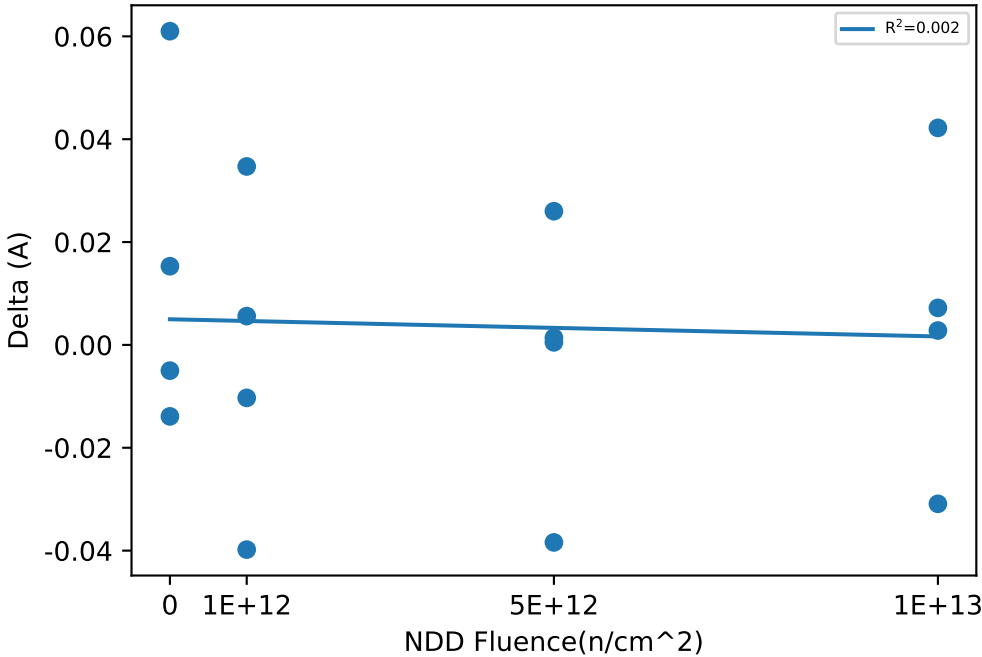
Test Statistics (mΩ)

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	34.245	34.416	34.585	0.18231	34.061	34.198	34.336	0.15122	-0.263	-0.2184	-0.1711	0.038001
1e+12	34.215	34.414	34.581	0.16206	34.068	34.227	34.345	0.12292	-0.2357	-0.18655	-0.1479	0.041376
5e+12	34.091	34.329	34.506	0.19289	33.837	34.178	34.407	0.26591	-0.2538	-0.15025	-0.0922	0.07465
1e+13	33.997	34.365	34.579	0.26364	33.925	34.274	34.477	0.24268	-0.1944	-0.090225	-0.0425	0.070511

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 12.2 (A))

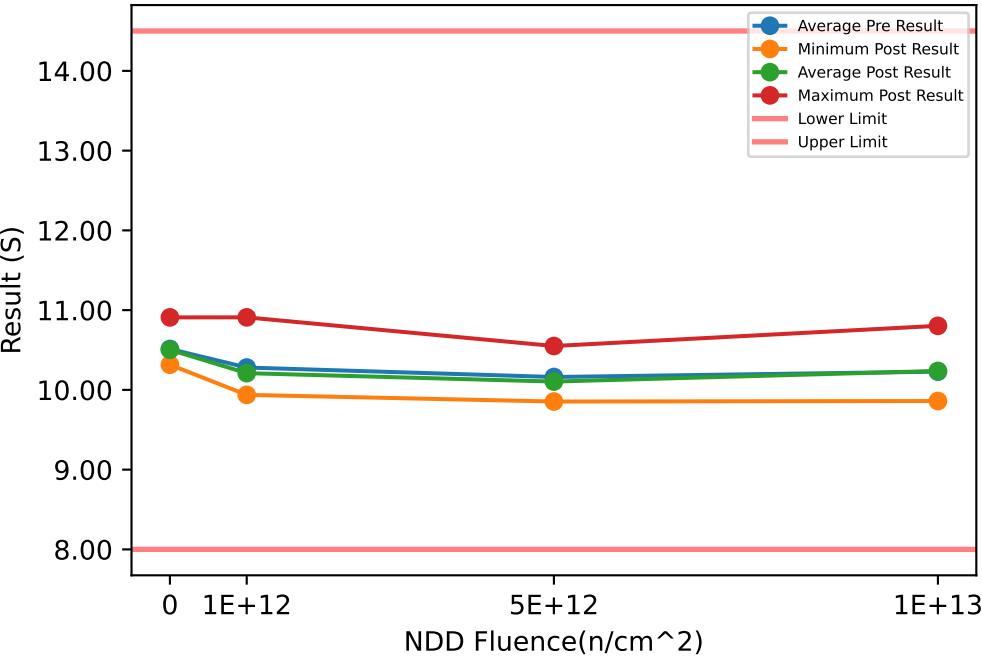
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	9.6315	9.6212	-0.0103
266	1e+12	NDD	9.5345	9.5692	0.0347
267	1e+12	NDD	9.8021	9.8077	0.0056
288	1e+12	NDD	8.7533	8.7135	-0.0398
348	5e+12	NDD	10.011	10.012	0.0005
353	5e+12	NDD	9.3854	9.347	-0.0384
370	5e+12	NDD	9.3259	9.3273	0.0014
377	5e+12	NDD	9.312	9.338	0.026
389	1e+13	NDD	8.7364	8.7055	-0.0309
394	1e+13	NDD	9.7693	9.7765	0.0072
395	1e+13	NDD	9.6614	9.7036	0.0422
571	1e+13	NDD	9.6803	9.6831	0.0028
649	0	CORRELATION	9.1754	9.1615	-0.0139
662	0	CORRELATION	9.7713	9.7866	0.0153
690	0	CORRELATION	9.624	9.685	0.061
708	0	CORRELATION	9.2915	9.2865	-0.005

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	9.1754	9.4656	9.7713	0.27873	9.1615	9.4799	9.7866	0.30272	-0.0139	0.01435	0.061	0.033415
1e+12	8.7533	9.4304	9.8021	0.46472	8.7135	9.4279	9.8077	0.48715	-0.0398	-0.00245	0.0347	0.0311
5e+12	9.312	9.5086	10.011	0.33651	9.3273	9.506	10.012	0.33718	-0.0384	-0.002625	0.026	0.026616
1e+13	8.7364	9.4619	9.7693	0.48592	8.7055	9.4672	9.7765	0.50936	-0.0309	0.005325	0.0422	0.029899

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

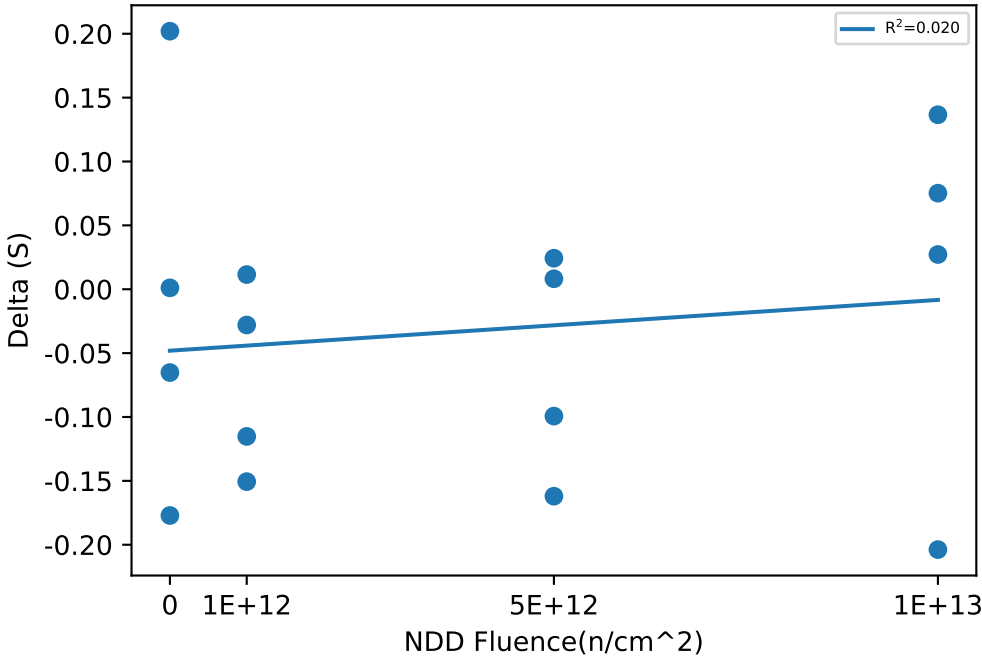
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	9.9576	9.9691	0.0115
266	1e+12	NDD	10.053	9.9377	-0.1152
267	1e+12	NDD	11.06	10.909	-0.1506
288	1e+12	NDD	10.051	10.023	-0.028
348	5e+12	NDD	10.712	10.55	-0.162
353	5e+12	NDD	9.9706	9.9949	0.0243
370	5e+12	NDD	10.117	10.018	-0.0993
377	5e+12	NDD	9.8459	9.8541	0.0082
389	1e+13	NDD	9.9268	10.002	0.0752
394	1e+13	NDD	10.064	9.8605	-0.2038
395	1e+13	NDD	10.257	10.284	0.0272
571	1e+13	NDD	10.667	10.803	0.1366
649	0	CORRELATION	10.381	10.316	-0.0652
662	0	CORRELATION	10.908	10.909	0.0011
690	0	CORRELATION	10.191	10.393	0.202
708	0	CORRELATION	10.573	10.396	-0.1771

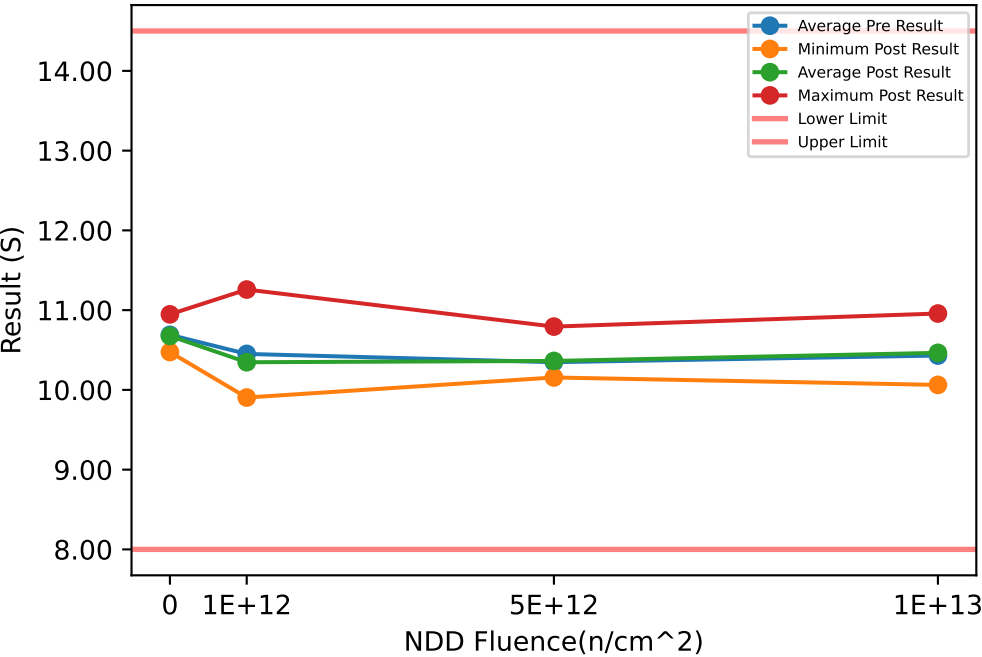
NDD vs Post - Pre Exposure Delta



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	10.191	10.513	10.908	0.3061	10.316	10.503	10.909	0.27312	-0.1771	-0.0098	0.202	0.1592
1e+12	9.9576	10.28	11.06	0.52173	9.9377	10.21	10.909	0.4678	-0.1506	-0.070575	0.0115	0.075154
5e+12	9.8459	10.162	10.712	0.38352	9.8541	10.104	10.55	0.30596	-0.162	-0.0572	0.0243	0.088835
1e+13	9.9268	10.229	10.667	0.32183	9.8605	10.237	10.803	0.41625	-0.2038	0.0088	0.1366	0.14864

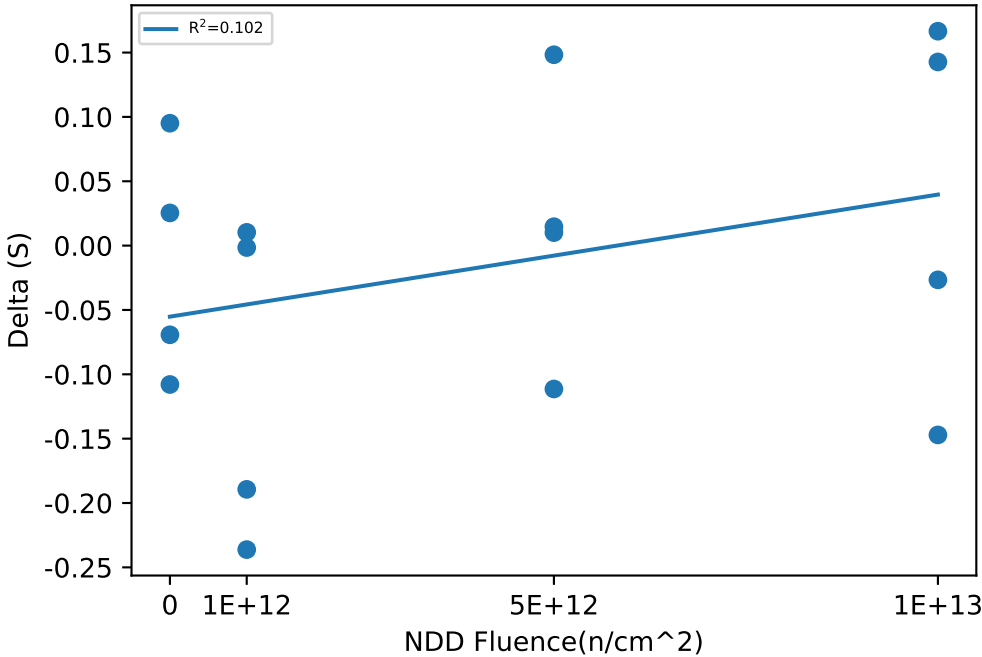
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	10.094	9.9042	-0.1894
266	1e+12	NDD	10.186	9.9496	-0.2362
267	1e+12	NDD	11.248	11.258	0.0103
288	1e+12	NDD	10.276	10.275	-0.0015
348	5e+12	NDD	10.905	10.794	-0.1114
353	5e+12	NDD	10.141	10.156	0.0147
370	5e+12	NDD	10.308	10.318	0.0101
377	5e+12	NDD	10.036	10.185	0.1483
389	1e+13	NDD	9.9199	10.063	0.1427
394	1e+13	NDD	10.316	10.169	-0.1471
395	1e+13	NDD	10.503	10.669	0.1666
571	1e+13	NDD	10.984	10.957	-0.0266
649	0	CORRELATION	10.611	10.706	0.0951
662	0	CORRELATION	11.055	10.947	-0.1079
690	0	CORRELATION	10.45	10.475	0.0254
708	0	CORRELATION	10.645	10.576	-0.0693

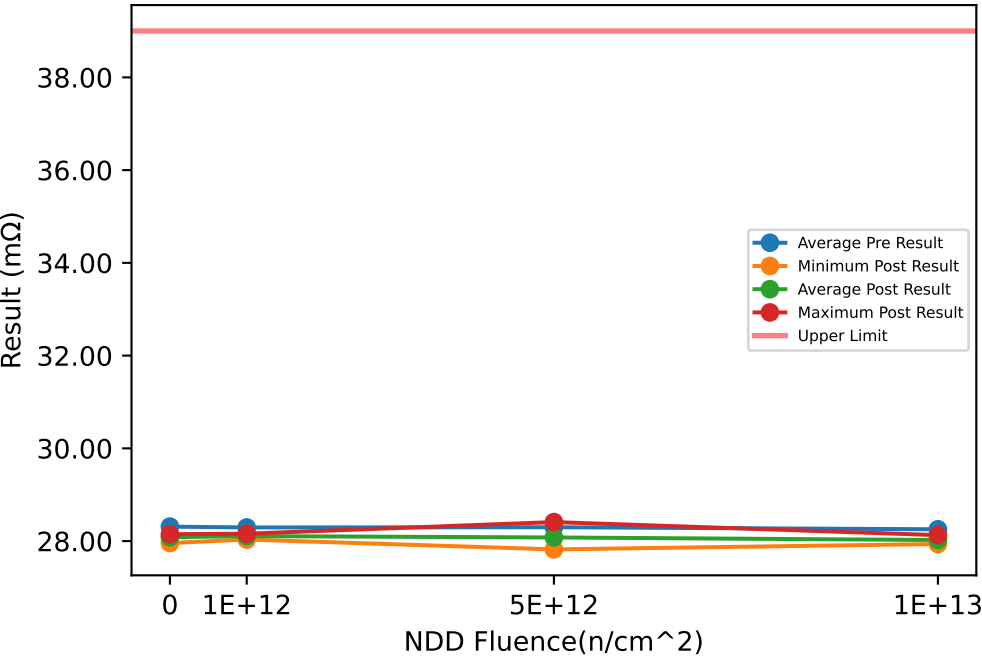
NDD vs Post - Pre Exposure Delta



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	10.45	10.69	11.055	0.25782	10.475	10.676	10.947	0.20412	-0.1079	-0.014175	0.0951	0.091888
1e+12	10.094	10.451	11.248	0.53658	9.9042	10.347	11.258	0.62973	-0.2362	-0.1042	0.0103	0.12694
5e+12	10.036	10.348	10.905	0.38808	10.156	10.363	10.794	0.29565	-0.1114	0.015425	0.1483	0.1061
1e+13	9.9199	10.431	10.984	0.44179	10.063	10.464	10.957	0.42189	-0.1471	0.0339	0.1666	0.14818

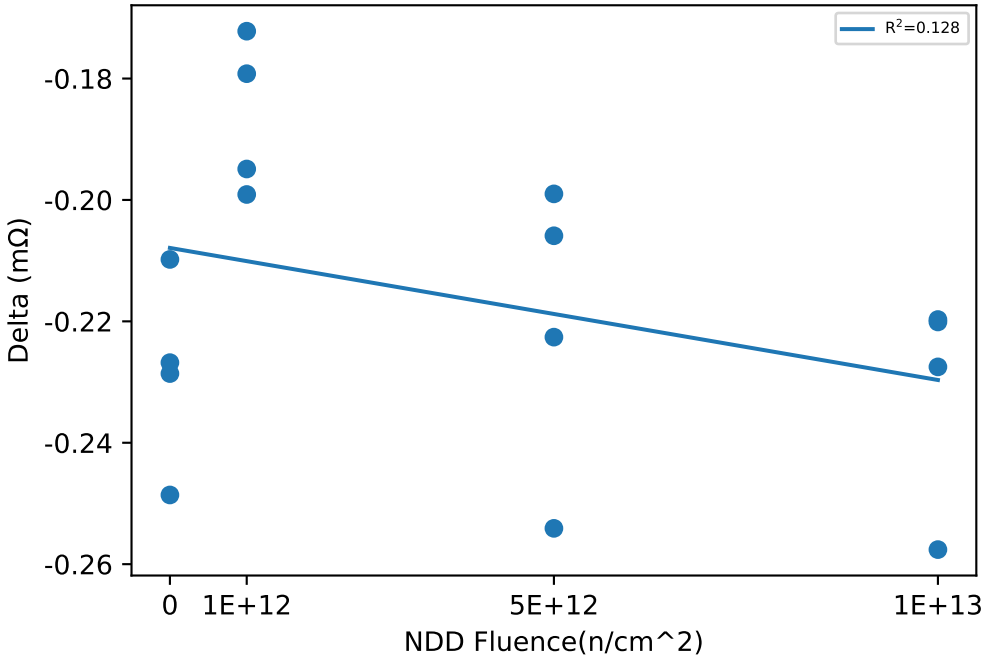
NDD vs Result Stats



Test Results (Upper Limit = 39.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	28.276	28.081	-0.1949
266	1e+12	NDD	28.336	28.157	-0.1792
267	1e+12	NDD	28.233	28.034	-0.1991
288	1e+12	NDD	28.331	28.159	-0.1722
348	5e+12	NDD	28.311	28.088	-0.2226
353	5e+12	NDD	28.027	27.821	-0.2059
370	5e+12	NDD	28.249	27.994	-0.2541
377	5e+12	NDD	28.609	28.41	-0.199
389	1e+13	NDD	28.165	27.937	-0.2275
394	1e+13	NDD	28.349	28.129	-0.2201
395	1e+13	NDD	28.211	27.953	-0.2576
571	1e+13	NDD	28.295	28.075	-0.2197
649	0	CORRELATION	28.351	28.125	-0.2268
662	0	CORRELATION	28.398	28.149	-0.2486
690	0	CORRELATION	28.312	28.102	-0.2098
708	0	CORRELATION	28.187	27.958	-0.2286

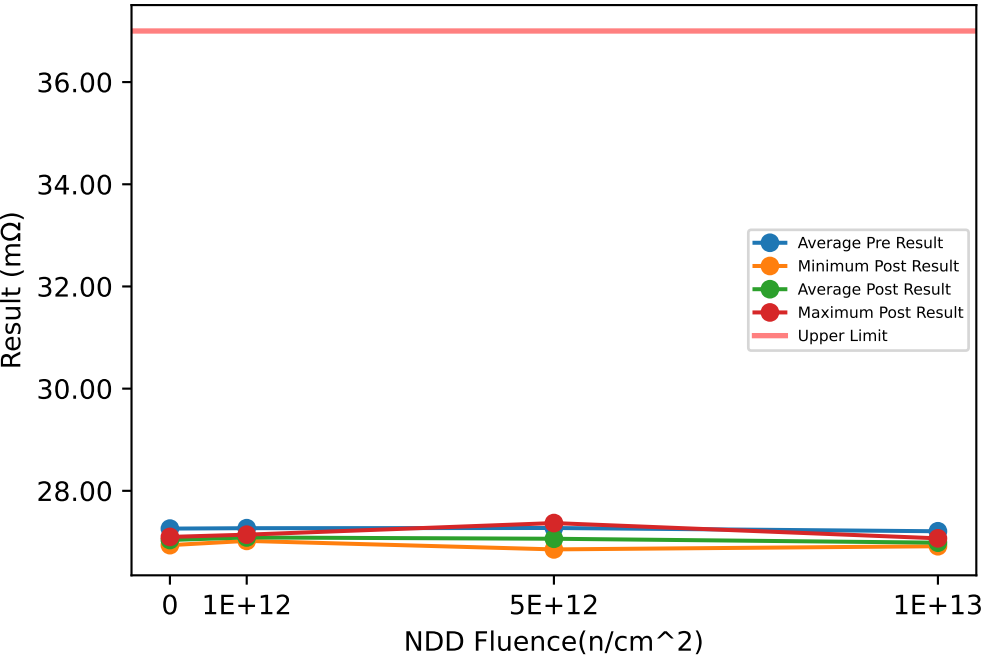
NDD vs Post - Pre Exposure Delta



Test Statistics (mΩ)

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	28.187	28.312	28.398	0.090517	27.958	28.083	28.149	0.085733	-0.2486	-0.22845	-0.2098	0.015881
1e+12	28.233	28.294	28.336	0.048862	28.034	28.108	28.159	0.061004	-0.1991	-0.18635	-0.1722	0.012741
5e+12	28.027	28.299	28.609	0.24014	27.821	28.078	28.41	0.24736	-0.2541	-0.2204	-0.199	0.024554
1e+13	28.165	28.255	28.349	0.08254	27.937	28.024	28.129	0.093191	-0.2576	-0.23123	-0.2197	0.017945

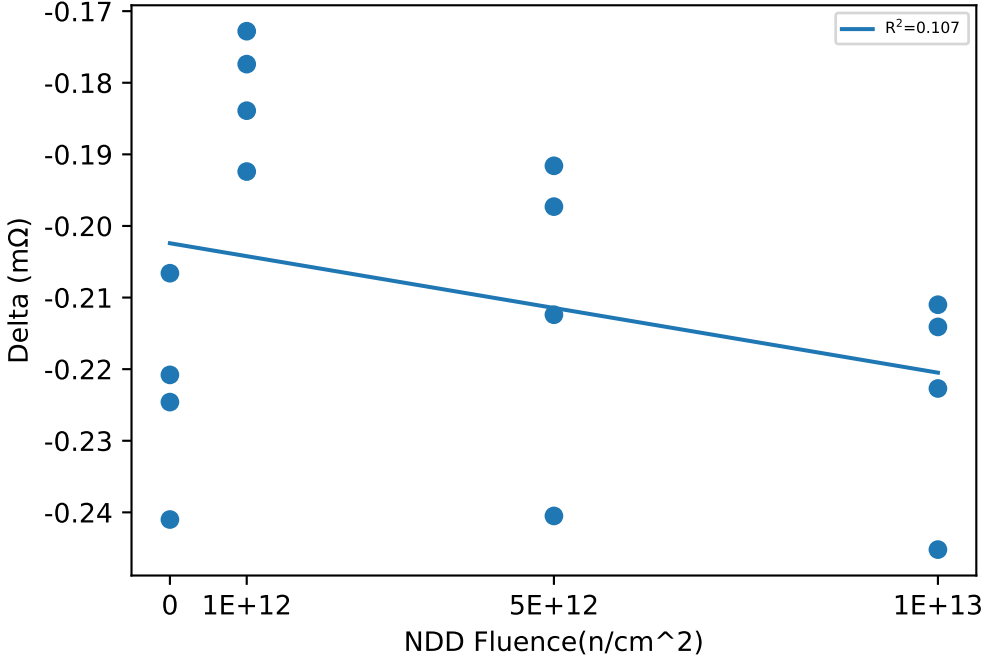
NDD vs Result Stats



Test Results (Upper Limit = 37.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	27.237	27.053	-0.1839
266	1e+12	NDD	27.311	27.134	-0.1774
267	1e+12	NDD	27.212	27.02	-0.1924
288	1e+12	NDD	27.315	27.142	-0.1728
348	5e+12	NDD	27.235	27.023	-0.2124
353	5e+12	NDD	27.051	26.854	-0.1973
370	5e+12	NDD	27.243	27.003	-0.2405
377	5e+12	NDD	27.561	27.369	-0.1916
389	1e+13	NDD	27.138	26.915	-0.2227
394	1e+13	NDD	27.281	27.07	-0.211
395	1e+13	NDD	27.169	26.924	-0.2452
571	1e+13	NDD	27.246	27.032	-0.2141
649	0	CORRELATION	27.271	27.05	-0.2208
662	0	CORRELATION	27.339	27.098	-0.241
690	0	CORRELATION	27.271	27.064	-0.2066
708	0	CORRELATION	27.161	26.937	-0.2246

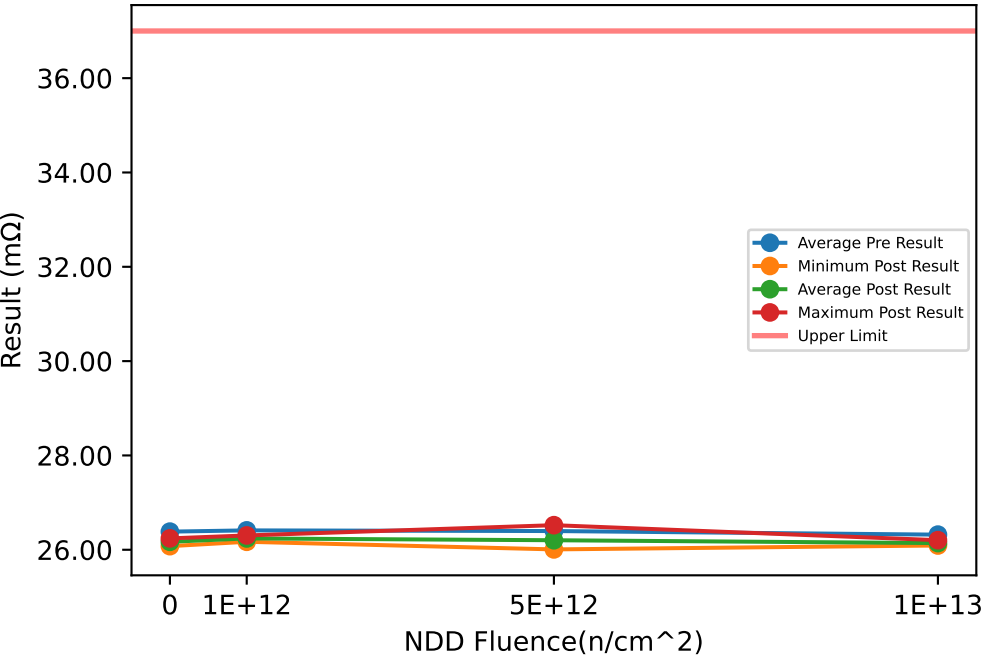
NDD vs Post - Pre Exposure Delta



Test Statistics (mΩ)

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	27.161	27.261	27.339	0.073533	26.937	27.037	27.098	0.069994	-0.241	-0.22325	-0.2066	0.014143
1e+12	27.212	27.269	27.315	0.051944	27.02	27.087	27.142	0.06011	-0.1924	-0.18162	-0.1728	0.008505
5e+12	27.051	27.272	27.561	0.21164	26.854	27.062	27.369	0.21813	-0.2405	-0.21045	-0.1916	0.021871
1e+13	27.138	27.209	27.281	0.066432	26.915	26.985	27.07	0.077666	-0.2452	-0.22325	-0.211	0.015448

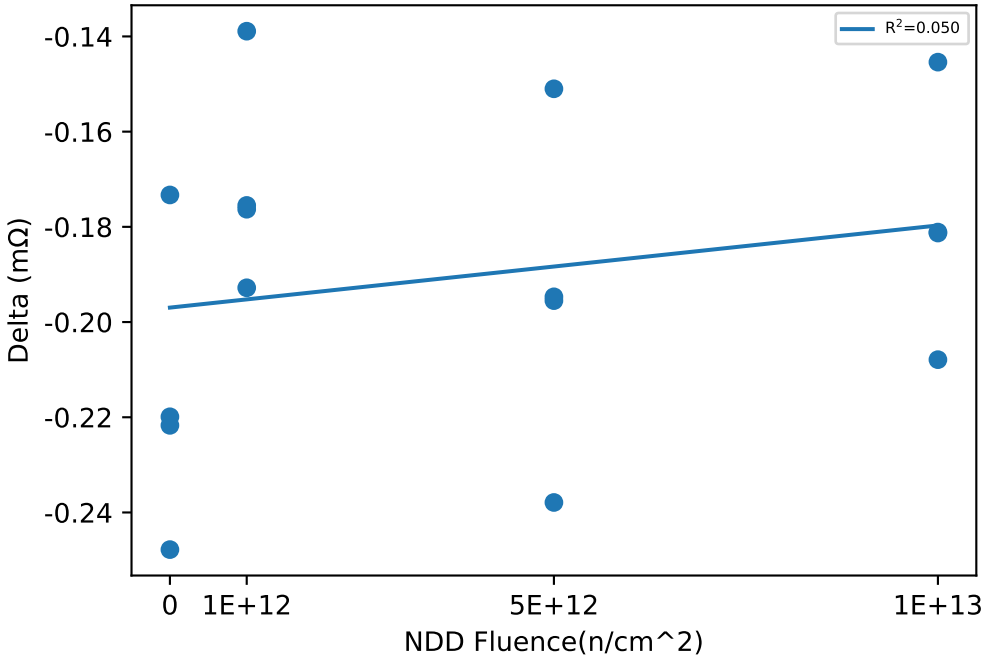
NDD vs Result Stats



Test Results (Upper Limit = 37.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	26.382	26.206	-0.1763
266	1e+12	NDD	26.475	26.282	-0.1928
267	1e+12	NDD	26.345	26.169	-0.1755
288	1e+12	NDD	26.442	26.303	-0.1389
348	5e+12	NDD	26.322	26.127	-0.1955
353	5e+12	NDD	26.246	26.008	-0.2379
370	5e+12	NDD	26.347	26.152	-0.1947
377	5e+12	NDD	26.672	26.521	-0.151
389	1e+13	NDD	26.271	26.09	-0.1811
394	1e+13	NDD	26.411	26.203	-0.2079
395	1e+13	NDD	26.277	26.095	-0.1813
571	1e+13	NDD	26.323	26.178	-0.1454
649	0	CORRELATION	26.383	26.135	-0.2478
662	0	CORRELATION	26.461	26.241	-0.2199
690	0	CORRELATION	26.395	26.222	-0.1733
708	0	CORRELATION	26.298	26.076	-0.2217

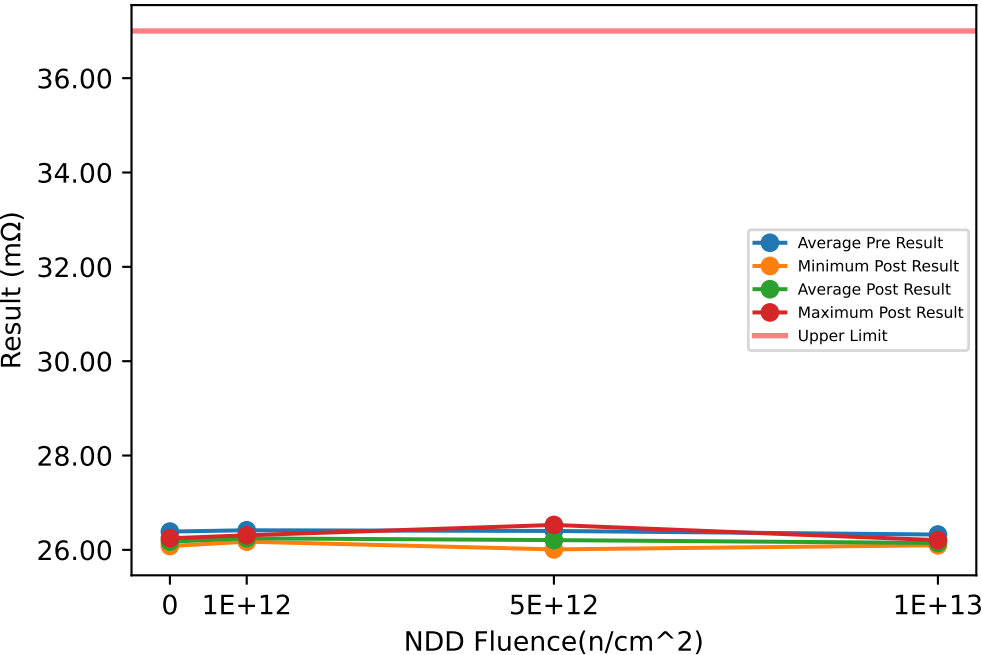
NDD vs Post - Pre Exposure Delta



Test Statistics (mΩ)

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	26.298	26.384	26.461	0.066912	26.076	26.169	26.241	0.076818	-0.2478	-0.21567	-0.1733	0.030994
1e+12	26.345	26.411	26.475	0.058522	26.169	26.24	26.303	0.063167	-0.1928	-0.17087	-0.1389	0.022759
5e+12	26.246	26.397	26.672	0.18864	26.008	26.202	26.521	0.22195	-0.2379	-0.19477	-0.151	0.03548
1e+13	26.271	26.321	26.411	0.064689	26.09	26.142	26.203	0.05741	-0.2079	-0.17893	-0.1454	0.025651

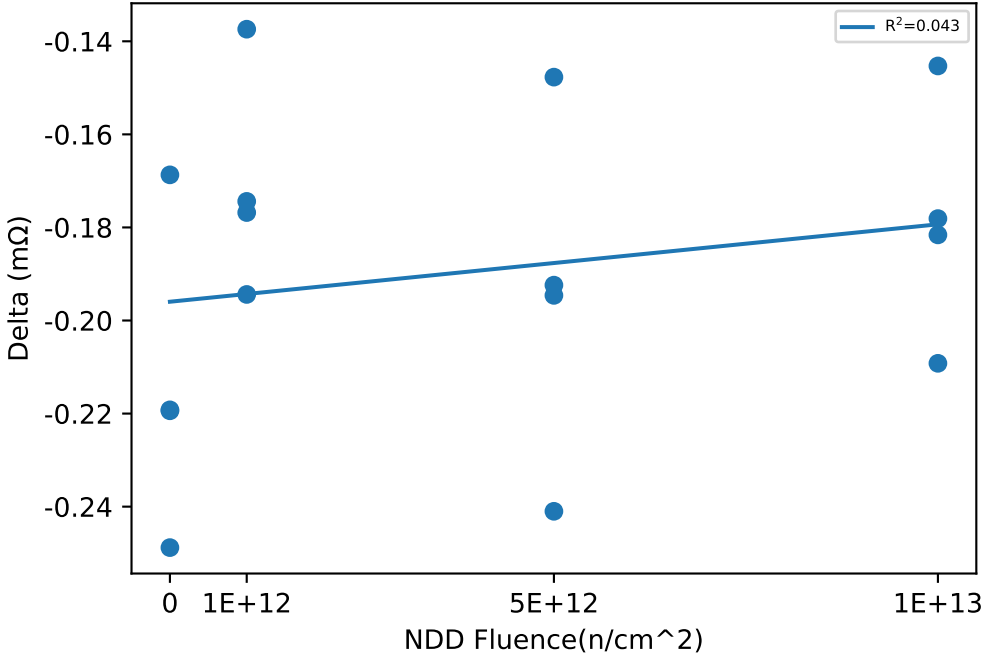
NDD vs Result Stats



Test Results (Upper Limit = 37.0 (mΩ))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	26.387	26.21	-0.1768
266	1e+12	NDD	26.48	26.285	-0.1944
267	1e+12	NDD	26.349	26.174	-0.1744
288	1e+12	NDD	26.447	26.309	-0.1374
348	5e+12	NDD	26.325	26.13	-0.1946
353	5e+12	NDD	26.251	26.01	-0.241
370	5e+12	NDD	26.352	26.16	-0.1924
377	5e+12	NDD	26.676	26.528	-0.1477
389	1e+13	NDD	26.276	26.097	-0.1781
394	1e+13	NDD	26.415	26.206	-0.2092
395	1e+13	NDD	26.281	26.099	-0.1816
571	1e+13	NDD	26.328	26.182	-0.1453
649	0	CORRELATION	26.386	26.137	-0.2488
662	0	CORRELATION	26.465	26.245	-0.2192
690	0	CORRELATION	26.399	26.23	-0.1687
708	0	CORRELATION	26.301	26.081	-0.2194

NDD vs Post - Pre Exposure Delta

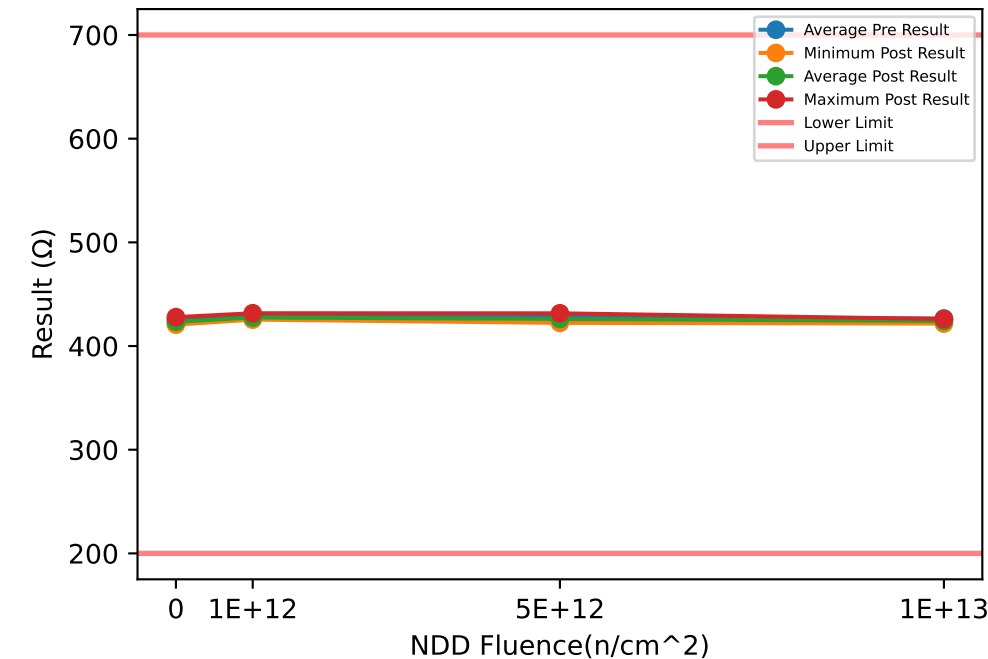


Test Statistics (mΩ)

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	26.301	26.388	26.465	0.067384	26.081	26.174	26.245	0.077878	-0.2488	-0.21403	-0.1687	0.033263
1e+12	26.349	26.415	26.48	0.058791	26.174	26.245	26.309	0.063145	-0.1944	-0.17075	-0.1374	0.023955
5e+12	26.251	26.401	26.676	0.1882	26.01	26.207	26.528	0.22369	-0.241	-0.19393	-0.1477	0.038103
1e+13	26.276	26.325	26.415	0.064578	26.097	26.146	26.206	0.056092	-0.2092	-0.17855	-0.1453	0.026169

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

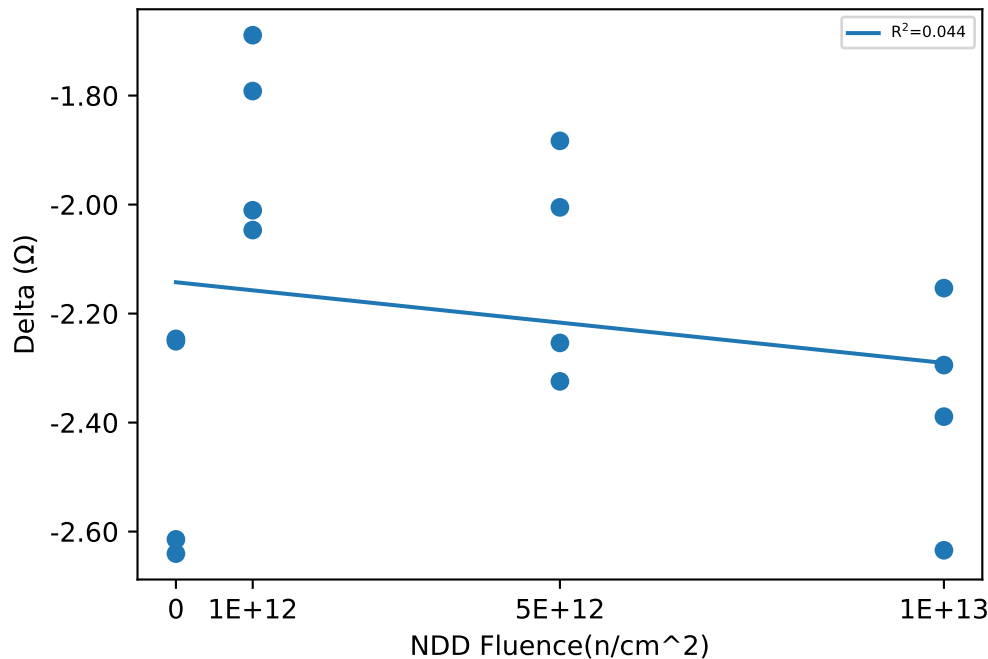
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	428.52	426.47	-2.0468
266	1e+12	NDD	433.65	431.64	-2.0104
267	1e+12	NDD	427.14	425.45	-1.6892
288	1e+12	NDD	428.28	426.48	-1.7917
348	5e+12	NDD	428.08	425.76	-2.3244
353	5e+12	NDD	426.81	424.55	-2.2538
370	5e+12	NDD	424.2	422.31	-1.8831
377	5e+12	NDD	433.58	431.57	-2.0051
389	1e+13	NDD	426.74	424.11	-2.6343
394	1e+13	NDD	428.45	426.06	-2.3891
395	1e+13	NDD	423.78	421.63	-2.1533
571	1e+13	NDD	427.19	424.89	-2.2945
649	0	CORRELATION	424.68	422.04	-2.6404
662	0	CORRELATION	422.87	420.62	-2.2464
690	0	CORRELATION	430.1	427.85	-2.2508
708	0	CORRELATION	425.34	422.72	-2.6143

NDD vs Post - Pre Exposure Delta

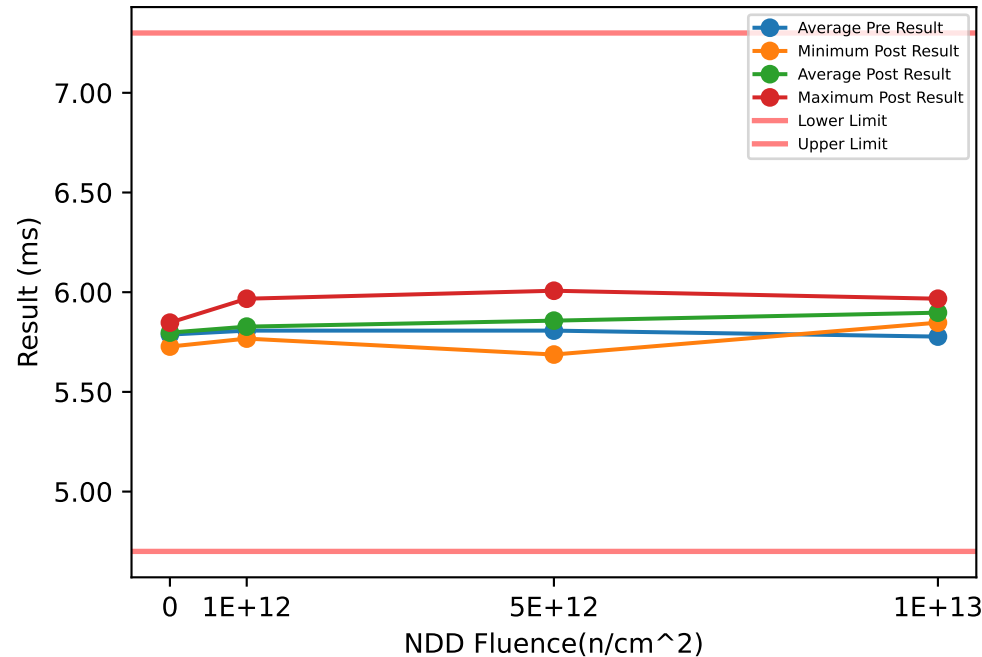


Test Statistics (Ω)

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	422.87	425.75	430.1	3.0848	420.62	423.31	427.85	3.1515	-2.6404	-2.438	-2.2464	0.21894
1e+12	427.14	429.4	433.65	2.9013	425.45	427.51	431.64	2.7966	-2.0468	-1.8845	-1.6892	0.17219
5e+12	424.2	428.17	433.58	3.9548	422.31	426.05	431.57	3.9502	-2.3244	-2.1166	-1.8831	0.20733
1e+13	423.78	426.54	428.45	1.9758	421.63	424.17	426.06	1.876	-2.6343	-2.3678	-2.1533	0.20237

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

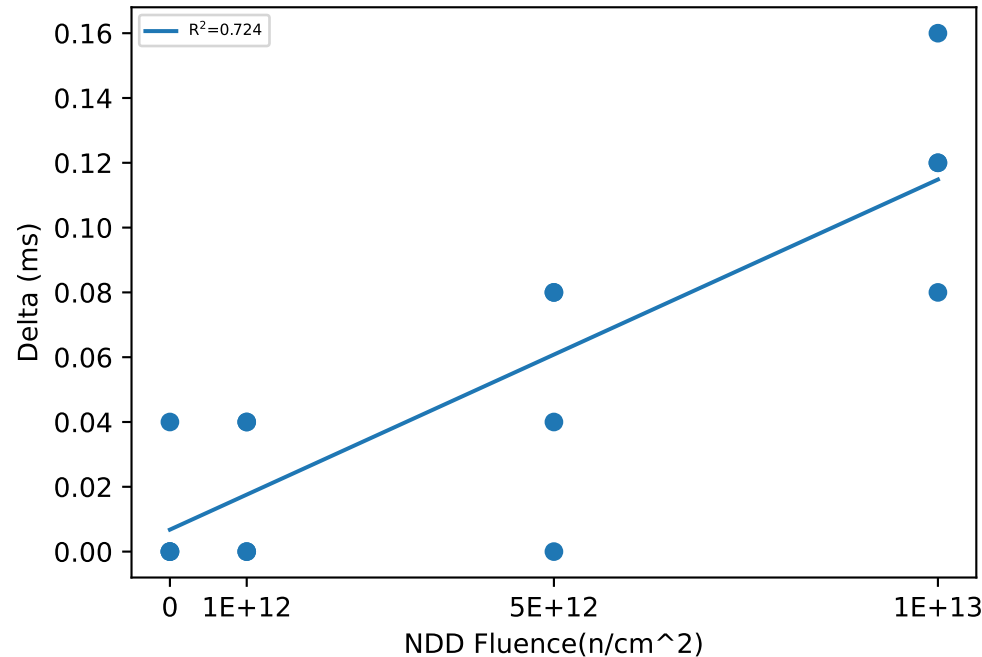
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	5.7673	5.8073	0.04
266	1e+12	NDD	5.9673	5.9673	0
267	1e+12	NDD	5.7673	5.7673	0
288	1e+12	NDD	5.7273	5.7673	0.04
348	5e+12	NDD	5.7673	5.8073	0.04
353	5e+12	NDD	5.8473	5.9273	0.08
370	5e+12	NDD	5.6873	5.6873	0
377	5e+12	NDD	5.9273	6.0073	0.08
389	1e+13	NDD	5.7673	5.8473	0.08
394	1e+13	NDD	5.8073	5.9273	0.12
395	1e+13	NDD	5.7273	5.8473	0.12
571	1e+13	NDD	5.8073	5.9673	0.16
649	0	CORRELATION	5.8073	5.8073	0
662	0	CORRELATION	5.8073	5.8073	0
690	0	CORRELATION	5.8073	5.8473	0.04
708	0	CORRELATION	5.7273	5.7273	0

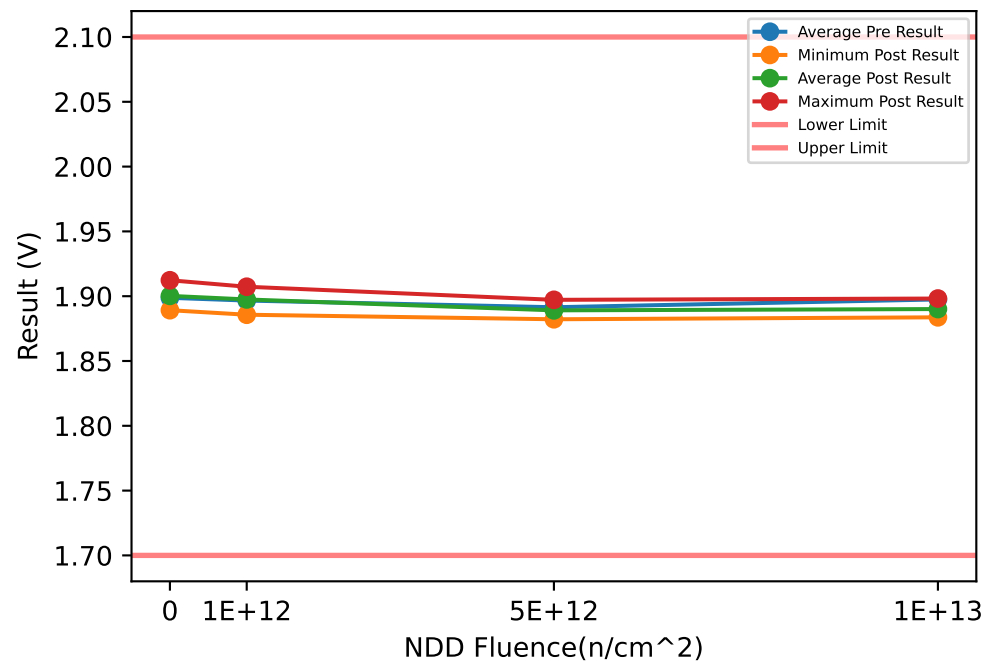
NDD vs Post - Pre Exposure Delta



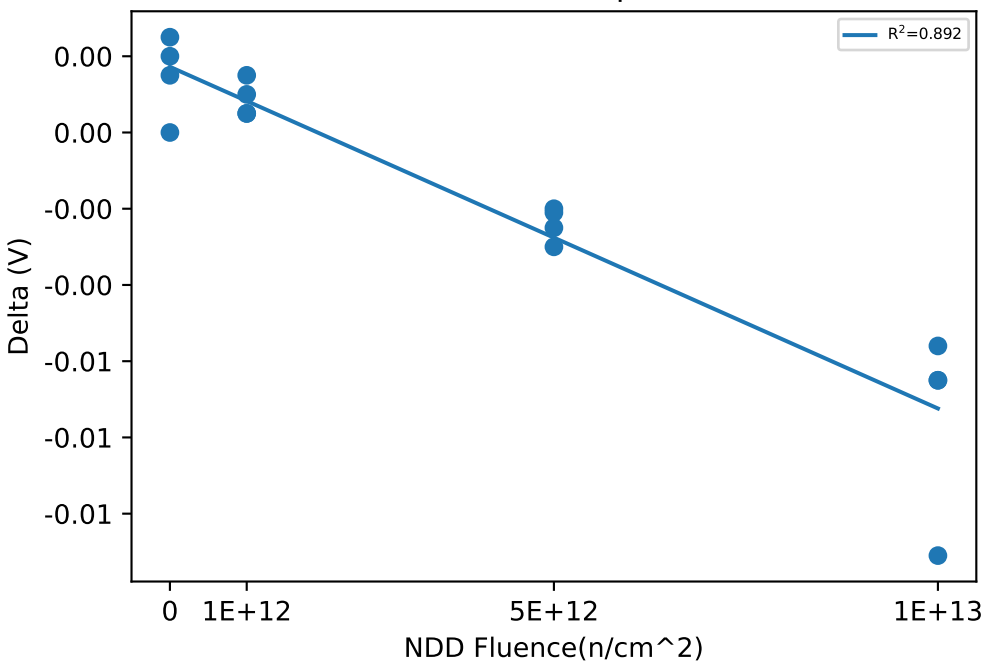
Test Statistics (ms)

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	5.7273	5.7873	5.8073	0.04	5.7273	5.7973	5.8473	0.050332	0	0.01	0.04	0.02
1e+12	5.7273	5.8073	5.9673	0.10832	5.7673	5.8273	5.9673	0.095219	0	0.02	0.04	0.023094
5e+12	5.6873	5.8073	5.9273	0.10328	5.6873	5.8573	6.0073	0.14	0	0.05	0.08	0.038297
1e+13	5.7273	5.7773	5.8073	0.038297	5.8473	5.8973	5.9673	0.06	0.08	0.12	0.16	0.03266

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

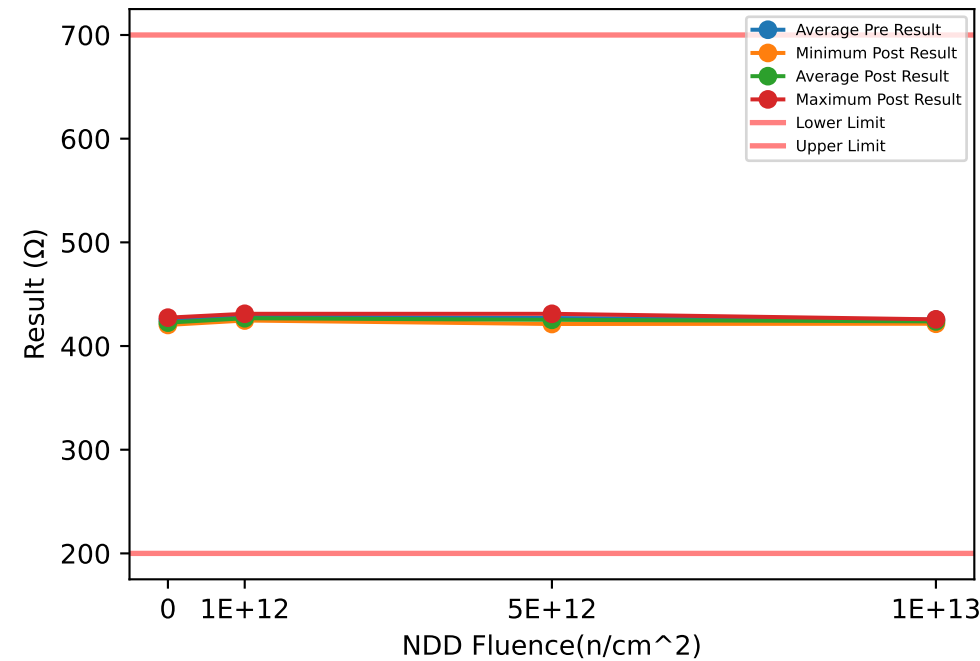
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.8922	1.8937	0.0015
266	1e+12	NDD	1.8852	1.8857	0.0005
267	1e+12	NDD	1.9068	1.9073	0.0005
288	1e+12	NDD	1.9023	1.9033	0.001
348	5e+12	NDD	1.8993	1.8972	-0.0021
353	5e+12	NDD	1.8887	1.8857	-0.003
370	5e+12	NDD	1.8937	1.8912	-0.0025
377	5e+12	NDD	1.8842	1.8822	-0.002
389	1e+13	NDD	1.9038	1.8982	-0.0056
394	1e+13	NDD	1.8907	1.8842	-0.0065
395	1e+13	NDD	1.9053	1.8942	-0.0111
571	1e+13	NDD	1.8902	1.8837	-0.0065
649	0	CORRELATION	1.9108	1.9123	0.0015
662	0	CORRELATION	1.8942	1.8942	0
690	0	CORRELATION	1.8872	1.8892	0.002
708	0	CORRELATION	1.9028	1.9053	0.0025

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	1.8872	1.8988	1.9108	0.010258	1.8892	1.9002	1.9123	0.010479	0	0.0015	0.0025	0.0010801
1e+12	1.8852	1.8966	1.9068	0.0097613	1.8857	1.8975	1.9073	0.0097187	0.0005	0.000875	0.0015	0.00047871
5e+12	1.8842	1.8915	1.8993	0.0065015	1.8822	1.8891	1.8972	0.0065622	-0.003	-0.0024	-0.002	0.00045461
1e+13	1.8902	1.8975	1.9053	0.0081662	1.8837	1.8901	1.8982	0.0072615	-0.0111	-0.007425	-0.0056	0.0024865

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

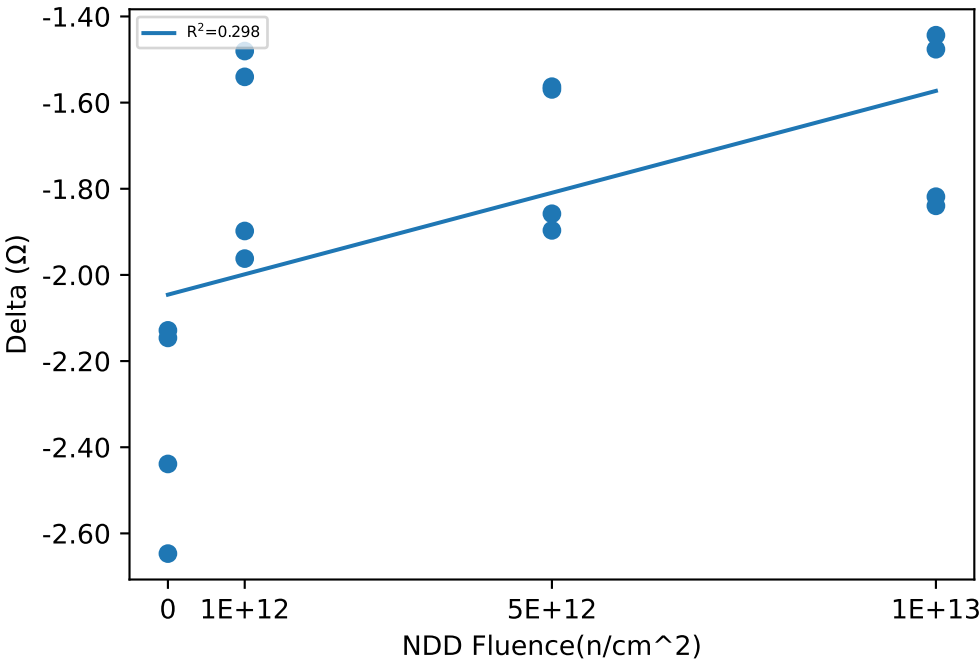
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	427.71	425.75	-1.9621
266	1e+12	NDD	433	431.1	-1.898
267	1e+12	NDD	426.09	424.61	-1.4803
288	1e+12	NDD	427.28	425.74	-1.5402
348	5e+12	NDD	426.46	424.56	-1.8966
353	5e+12	NDD	426.12	424.26	-1.858
370	5e+12	NDD	422.82	421.26	-1.563
377	5e+12	NDD	432.65	431.08	-1.5694
389	1e+13	NDD	425.51	423.67	-1.8396
394	1e+13	NDD	427.56	425.74	-1.8184
395	1e+13	NDD	422.93	421.49	-1.4435
571	1e+13	NDD	425.66	424.18	-1.4761
649	0	CORRELATION	423.71	421.06	-2.6469
662	0	CORRELATION	422.49	420.34	-2.1462
690	0	CORRELATION	429.5	427.37	-2.1287
708	0	CORRELATION	424.04	421.6	-2.4388

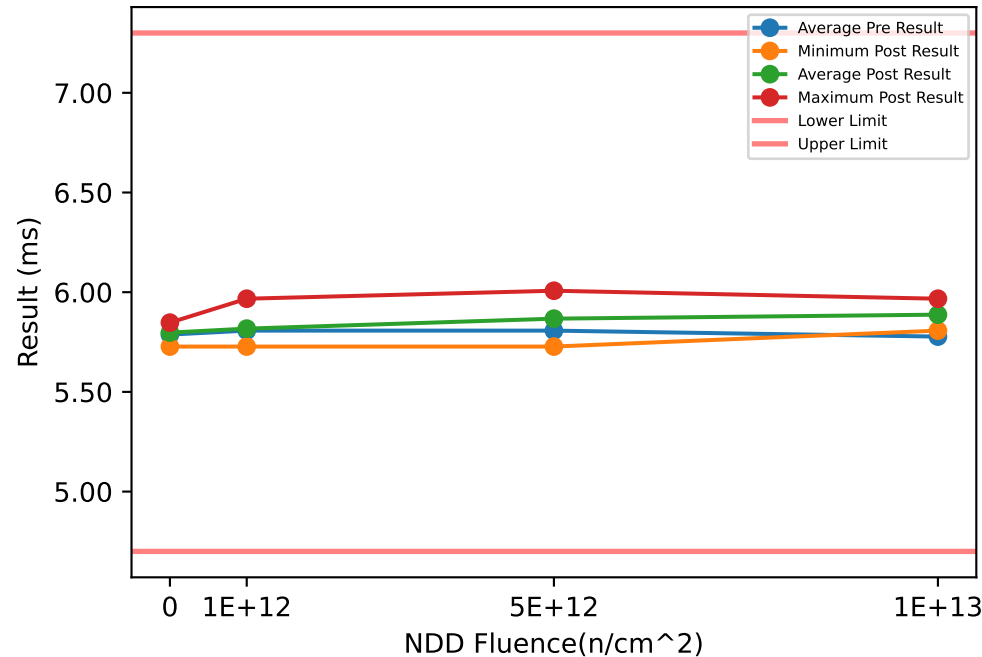
NDD vs Post - Pre Exposure Delta



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	422.49	424.94	429.5	3.1165	420.34	422.6	427.37	3.2268	-2.6469	-2.3402	-2.1287	0.2491
1e+12	426.09	428.52	433	3.0634	424.61	426.8	431.1	2.9167	-1.9621	-1.7201	-1.4803	0.245
5e+12	422.82	427.01	432.65	4.1001	421.26	425.29	431.08	4.1374	-1.8966	-1.7218	-1.563	0.18032
1e+13	422.93	425.42	427.56	1.8997	421.49	423.77	425.74	1.7574	-1.8396	-1.6444	-1.4435	0.21375

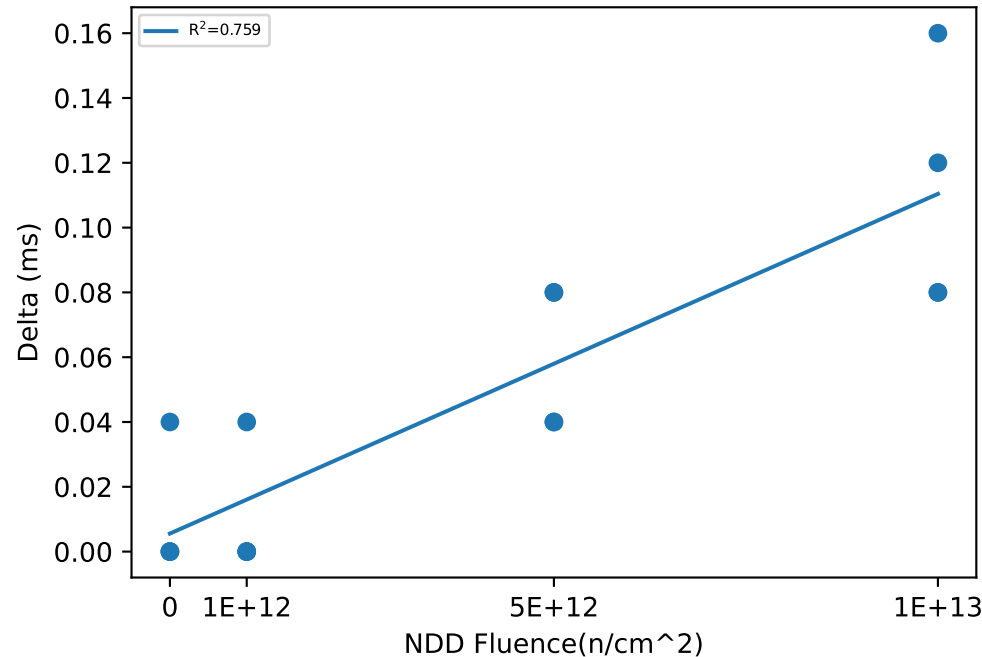
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	5.7673	5.8073	0.04
266	1e+12	NDD	5.9673	5.9673	0
267	1e+12	NDD	5.7673	5.7673	0
288	1e+12	NDD	5.7273	5.7273	0
348	5e+12	NDD	5.7673	5.8073	0.04
353	5e+12	NDD	5.8473	5.9273	0.08
370	5e+12	NDD	5.6873	5.7273	0.04
377	5e+12	NDD	5.9273	6.0073	0.08
389	1e+13	NDD	5.7673	5.8473	0.08
394	1e+13	NDD	5.8073	5.9273	0.12
395	1e+13	NDD	5.7273	5.8073	0.08
571	1e+13	NDD	5.8073	5.9673	0.16
649	0	CORRELATION	5.8073	5.8073	0
662	0	CORRELATION	5.8073	5.8073	0
690	0	CORRELATION	5.8073	5.8473	0.04
708	0	CORRELATION	5.7273	5.7273	0

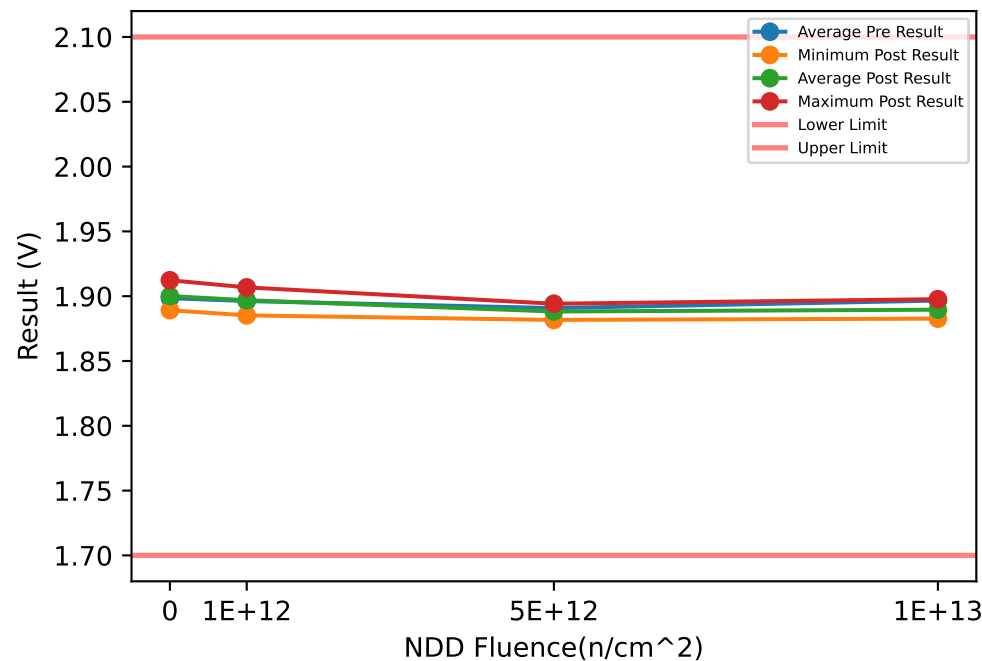
NDD vs Post - Pre Exposure Delta



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	5.7273	5.7873	5.8073	0.04	5.7273	5.7973	5.8473	0.050332	0	0.01	0.04	0.02
1e+12	5.7273	5.8073	5.9673	0.10832	5.7273	5.8173	5.9673	0.1052	0	0.01	0.04	0.02
5e+12	5.6873	5.8073	5.9273	0.10328	5.7273	5.8673	6.0073	0.12437	0.04	0.06	0.08	0.023094
1e+13	5.7273	5.7773	5.8073	0.038297	5.8073	5.8873	5.9673	0.07303	0.08	0.11	0.16	0.038297

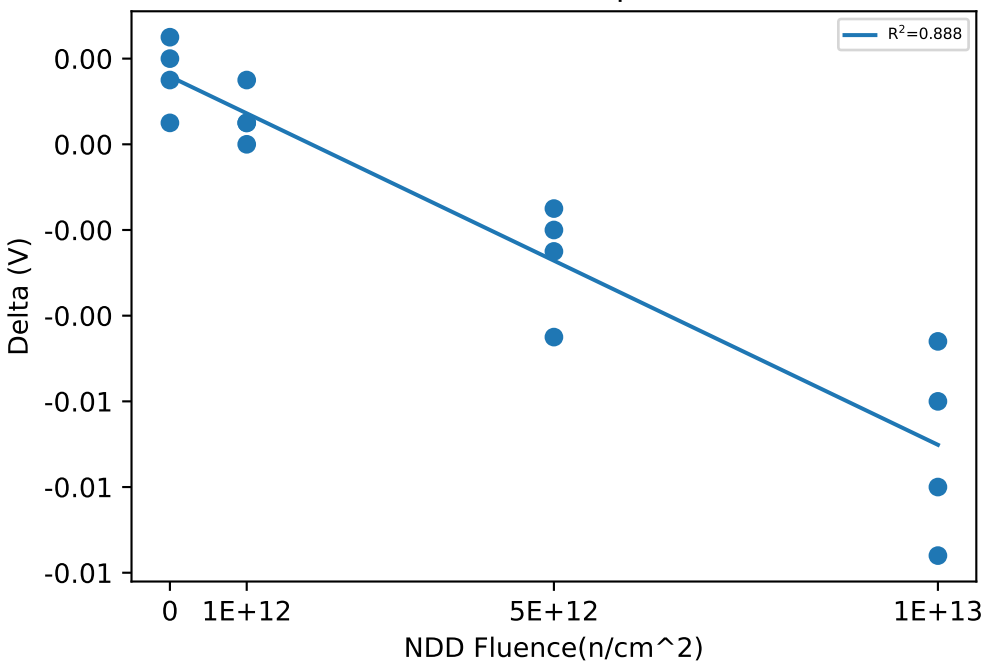
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.8922	1.8937	0.0015
266	1e+12	NDD	1.8847	1.8852	0.0005
267	1e+12	NDD	1.9063	1.9068	0.0005
288	1e+12	NDD	1.9018	1.9018	0
348	5e+12	NDD	1.8987	1.8942	-0.0045
353	5e+12	NDD	1.8882	1.8857	-0.0025
370	5e+12	NDD	1.8927	1.8912	-0.0015
377	5e+12	NDD	1.8837	1.8817	-0.002
389	1e+13	NDD	1.9023	1.8977	-0.0046
394	1e+13	NDD	1.8907	1.8827	-0.008
395	1e+13	NDD	1.9038	1.8942	-0.0096
571	1e+13	NDD	1.8897	1.8837	-0.006
649	0	CORRELATION	1.9108	1.9123	0.0015
662	0	CORRELATION	1.8937	1.8942	0.0005
690	0	CORRELATION	1.8872	1.8892	0.002
708	0	CORRELATION	1.9023	1.9048	0.0025

NDD vs Post - Pre Exposure Delta

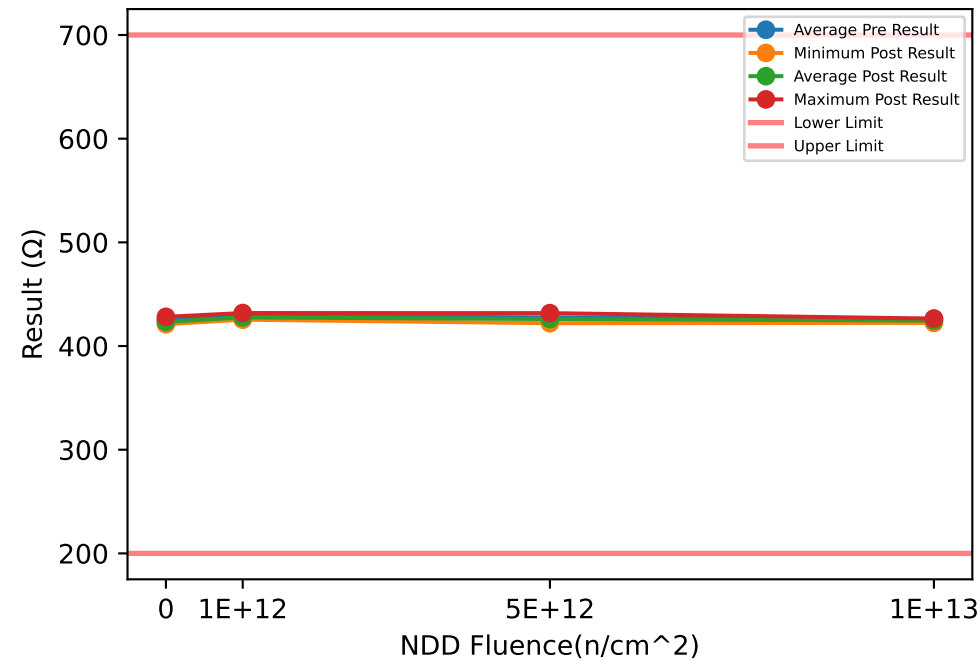


Test Statistics (V)

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	1.8872	1.8985	1.9108	0.010271	1.8892	1.9001	1.9123	0.010401	0.0005	0.001625	0.0025	0.00085391
1e+12	1.8847	1.8962	1.9063	0.0096887	1.8852	1.8969	1.9068	0.0094718	0	0.000625	0.0015	0.00062915
5e+12	1.8837	1.8908	1.8987	0.006408	1.8817	1.8882	1.8942	0.0055827	-0.0045	-0.002625	-0.0015	0.001315
1e+13	1.8897	1.8966	1.9038	0.0074554	1.8827	1.8896	1.8977	0.0075097	-0.0096	-0.00705	-0.0046	0.0021992

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

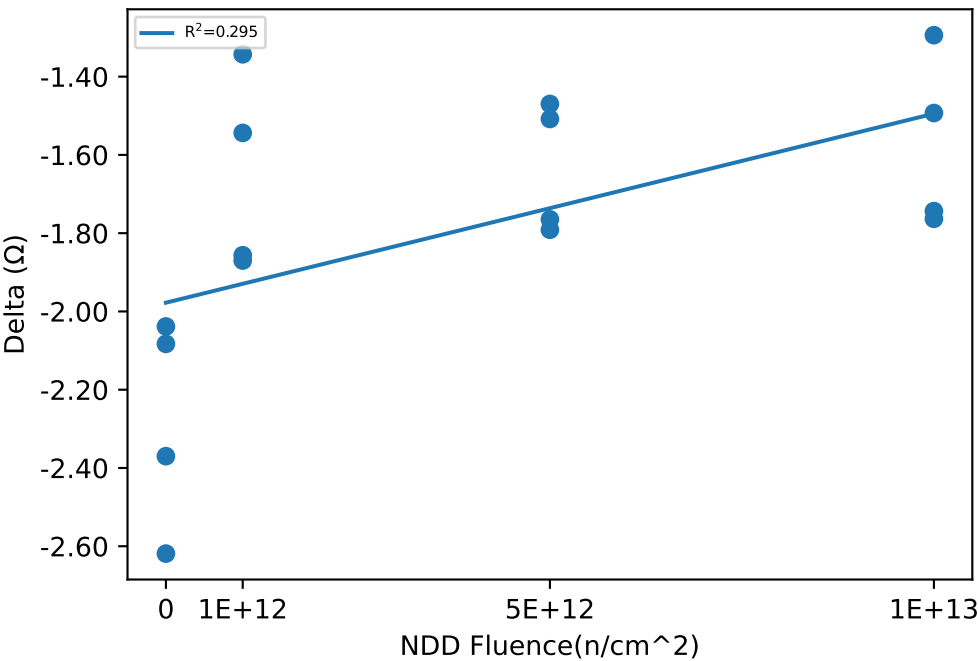
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	428.4	426.55	-1.8564
266	1e+12	NDD	433.71	431.84	-1.87
267	1e+12	NDD	426.76	425.42	-1.3429
288	1e+12	NDD	428.06	426.52	-1.5438
348	5e+12	NDD	427.14	425.35	-1.7913
353	5e+12	NDD	426.75	424.98	-1.7647
370	5e+12	NDD	423.49	422.02	-1.4698
377	5e+12	NDD	433.25	431.74	-1.5082
389	1e+13	NDD	426.24	424.48	-1.7633
394	1e+13	NDD	428.23	426.49	-1.7436
395	1e+13	NDD	423.61	422.31	-1.2941
571	1e+13	NDD	426.38	424.89	-1.493
649	0	CORRELATION	424.43	421.82	-2.6188
662	0	CORRELATION	423.14	421.06	-2.0828
690	0	CORRELATION	430.21	428.17	-2.0384
708	0	CORRELATION	424.77	422.4	-2.3699

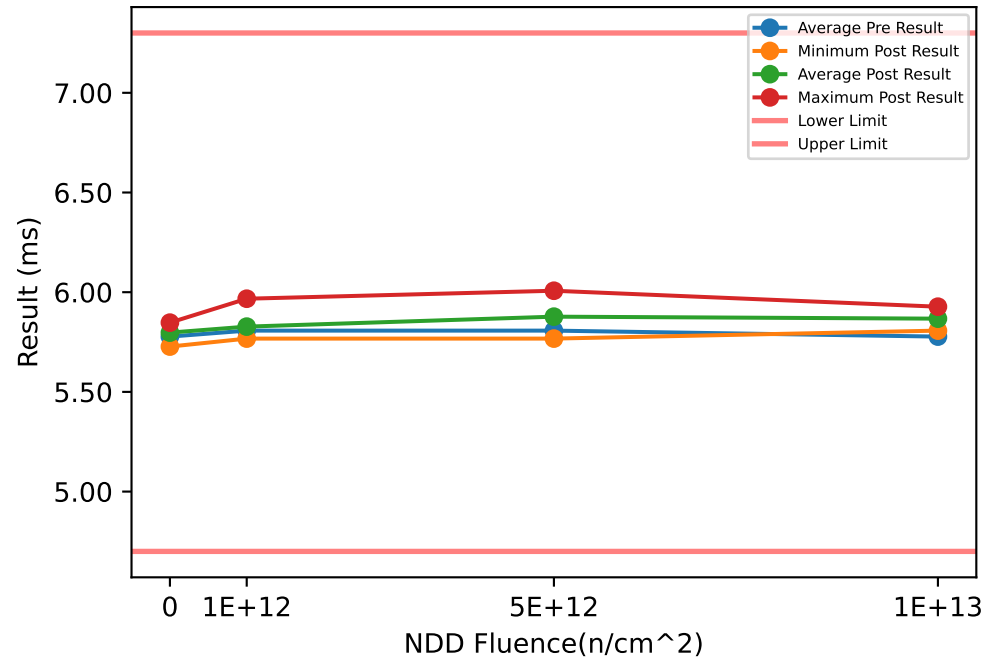
NDD vs Post - Pre Exposure Delta



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	423.14	425.64	430.21	3.1271	421.06	423.36	428.17	3.2533	-2.6188	-2.2775	-2.0384	0.27086
1e+12	426.76	429.23	433.71	3.0667	425.42	427.58	431.84	2.8877	-1.87	-1.6533	-1.3429	0.25596
5e+12	423.49	427.66	433.25	4.0705	422.02	426.02	431.74	4.0919	-1.7913	-1.6335	-1.4698	0.16794
1e+13	423.61	426.12	428.23	1.9031	422.31	424.54	426.49	1.7211	-1.7633	-1.5735	-1.2941	0.22324

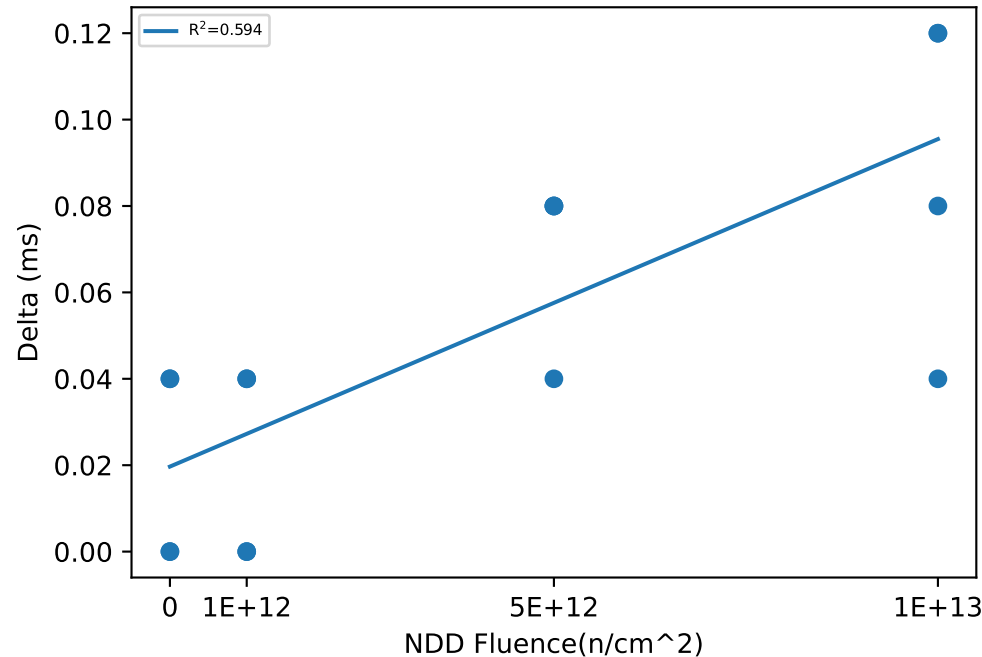
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	5.7673	5.8073	0.04
266	1e+12	NDD	5.9673	5.9673	0
267	1e+12	NDD	5.7673	5.7673	0
288	1e+12	NDD	5.7273	5.7673	0.04
348	5e+12	NDD	5.7673	5.8073	0.04
353	5e+12	NDD	5.8473	5.9273	0.08
370	5e+12	NDD	5.6873	5.7673	0.08
377	5e+12	NDD	5.9273	6.0073	0.08
389	1e+13	NDD	5.7673	5.8073	0.04
394	1e+13	NDD	5.8073	5.8873	0.08
395	1e+13	NDD	5.7273	5.8473	0.12
571	1e+13	NDD	5.8073	5.9273	0.12
649	0	CORRELATION	5.8073	5.8073	0
662	0	CORRELATION	5.7673	5.8073	0.04
690	0	CORRELATION	5.8073	5.8473	0.04
708	0	CORRELATION	5.7273	5.7273	0

NDD vs Post - Pre Exposure Delta

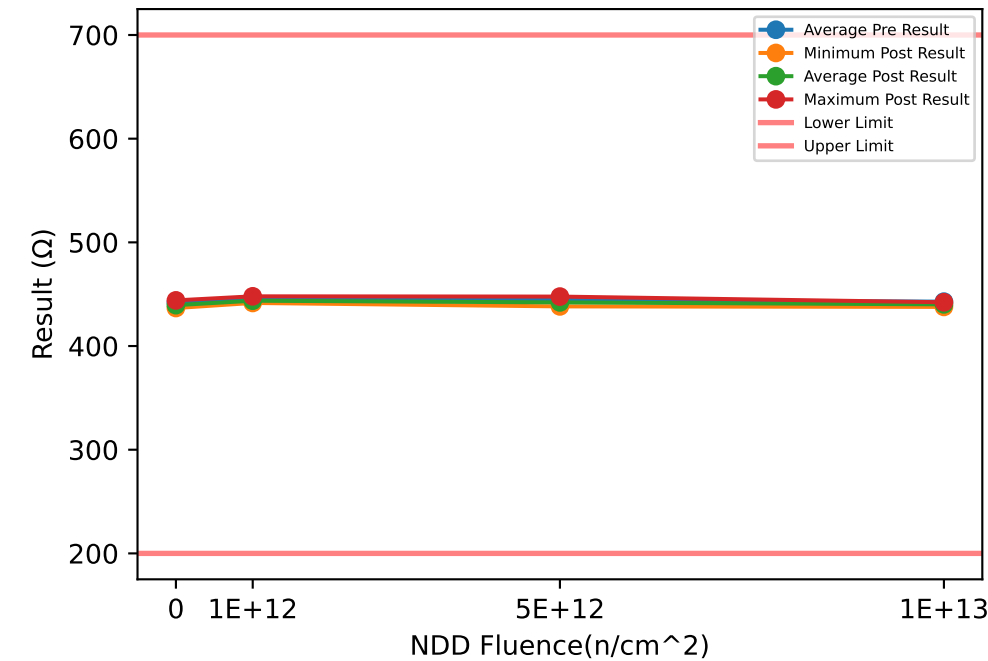


Test Statistics (ms)

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	5.7273	5.7773	5.8073	0.038297	5.7273	5.7973	5.8473	0.050332	0	0.02	0.04	0.023094
1e+12	5.7273	5.8073	5.9673	0.10832	5.7673	5.8273	5.9673	0.095219	0	0.02	0.04	0.023094
5e+12	5.6873	5.8073	5.9273	0.10328	5.7673	5.8773	6.0073	0.11015	0.04	0.07	0.08	0.02
1e+13	5.7273	5.7773	5.8073	0.038297	5.8073	5.8673	5.9273	0.05164	0.04	0.09	0.12	0.038297

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

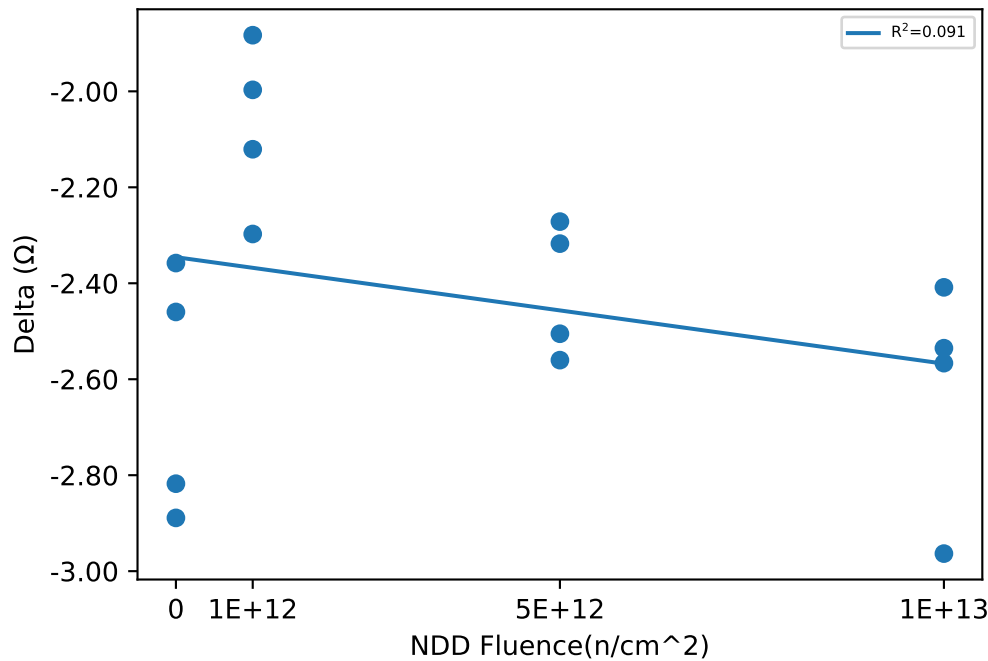
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	444.95	442.65	-2.2973
266	1e+12	NDD	450.08	447.96	-2.1207
267	1e+12	NDD	443.43	441.55	-1.883
288	1e+12	NDD	444.69	442.7	-1.9969
348	5e+12	NDD	444.46	441.9	-2.5602
353	5e+12	NDD	442.94	440.44	-2.5052
370	5e+12	NDD	440.55	438.23	-2.3174
377	5e+12	NDD	449.98	447.71	-2.2715
389	1e+13	NDD	443.01	440.05	-2.9634
394	1e+13	NDD	444.78	442.22	-2.5665
395	1e+13	NDD	440.15	437.74	-2.4085
571	1e+13	NDD	443.35	440.82	-2.5353
649	0	CORRELATION	441	438.11	-2.889
662	0	CORRELATION	439.04	436.68	-2.3579
690	0	CORRELATION	446.5	444.04	-2.4598
708	0	CORRELATION	441.66	438.84	-2.8177

NDD vs Post - Pre Exposure Delta

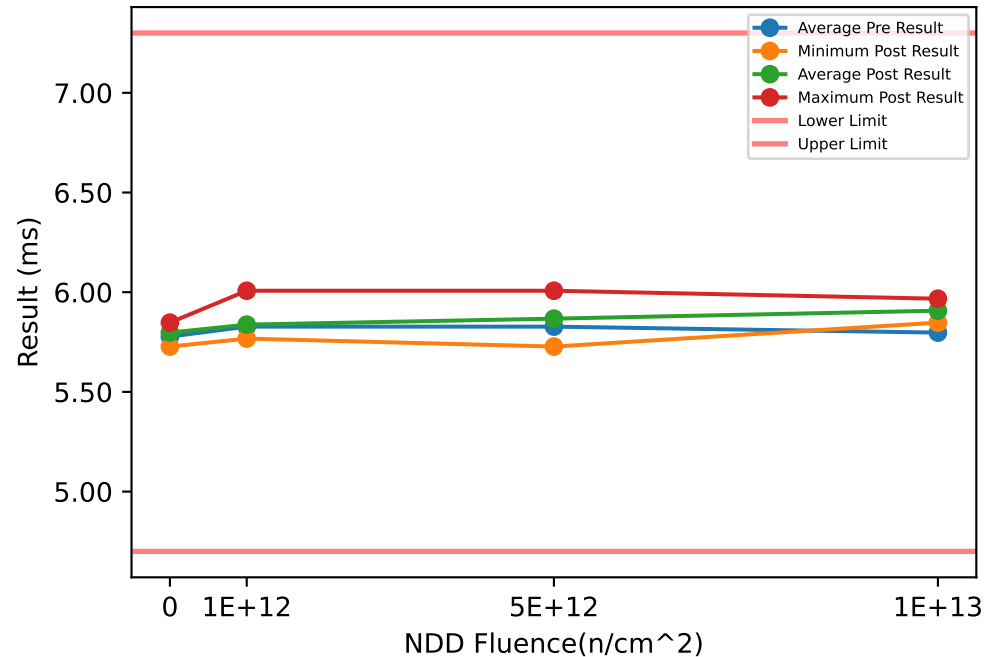


Test Statistics (Ω)

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	439.04	442.05	446.5	3.168	436.68	439.42	444.04	3.2081	-2.889	-2.6311	-2.3579	0.26161
1e+12	443.43	445.79	450.08	2.9352	441.55	443.71	447.96	2.8778	-2.2973	-2.0745	-1.883	0.17745
5e+12	440.55	444.48	449.98	4.0022	438.23	442.07	447.71	4.0499	-2.5602	-2.4136	-2.2715	0.14063
1e+13	440.15	442.82	444.78	1.9419	437.74	440.21	442.22	1.873	-2.9634	-2.6184	-2.4085	0.23992

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

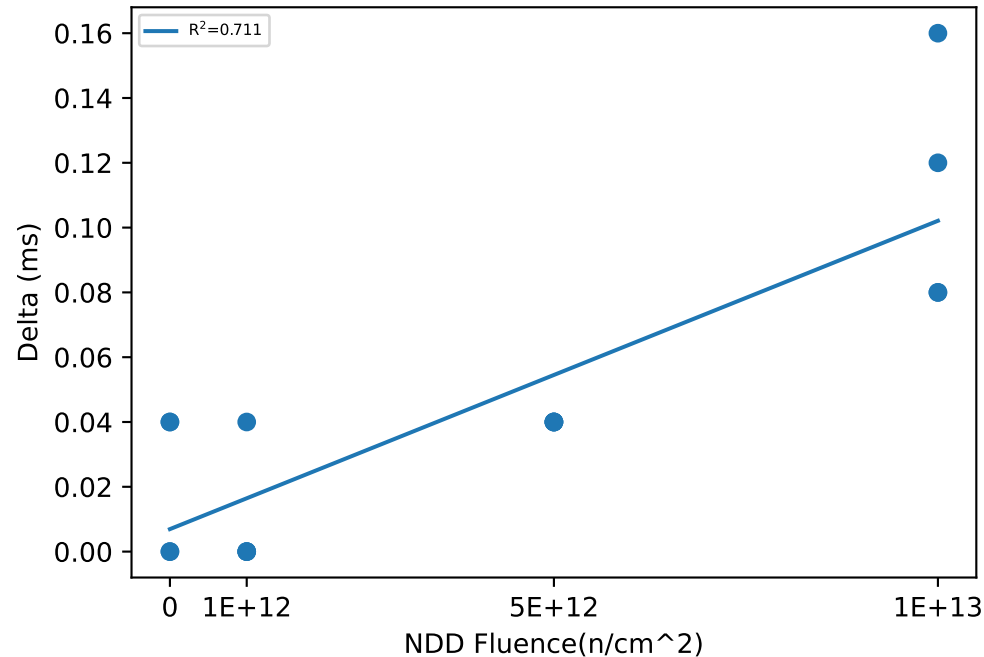
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	5.8073	5.8073	0
266	1e+12	NDD	6.0073	6.0073	0
267	1e+12	NDD	5.7673	5.7673	0
288	1e+12	NDD	5.7273	5.7673	0.04
348	5e+12	NDD	5.7673	5.8073	0.04
353	5e+12	NDD	5.8873	5.9273	0.04
370	5e+12	NDD	5.6873	5.7273	0.04
377	5e+12	NDD	5.9673	6.0073	0.04
389	1e+13	NDD	5.7673	5.8473	0.08
394	1e+13	NDD	5.8473	5.9273	0.08
395	1e+13	NDD	5.7273	5.8873	0.16
571	1e+13	NDD	5.8473	5.9673	0.12
649	0	CORRELATION	5.8073	5.8073	0
662	0	CORRELATION	5.7673	5.8073	0.04
690	0	CORRELATION	5.8073	5.8473	0.04
708	0	CORRELATION	5.7273	5.7273	0

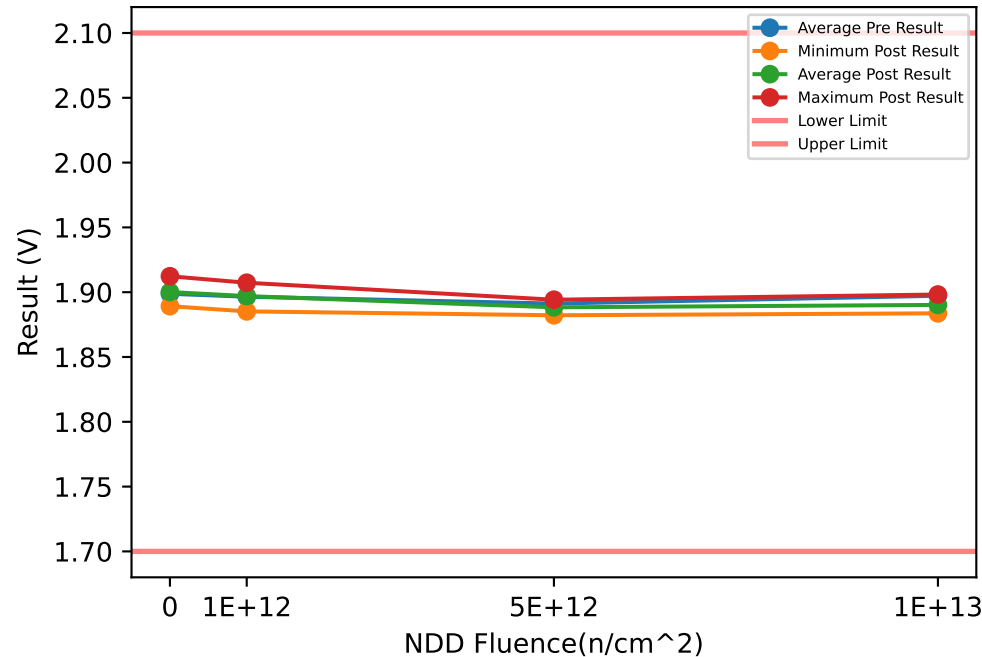
NDD vs Post - Pre Exposure Delta



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	5.7273	5.7773	5.8073	0.038297	5.7273	5.7973	5.8473	0.050332	0	0.02	0.04	0.023094
1e+12	5.7273	5.8273	6.0073	0.12437	5.7673	5.8373	6.0073	0.11489	0	0.01	0.04	0.02
5e+12	5.6873	5.8273	5.9673	0.12437	5.7273	5.8673	6.0073	0.12437	0.04	0.04	0.04	0
1e+13	5.7273	5.7973	5.8473	0.06	5.8473	5.9073	5.9673	0.05164	0.08	0.11	0.16	0.038297

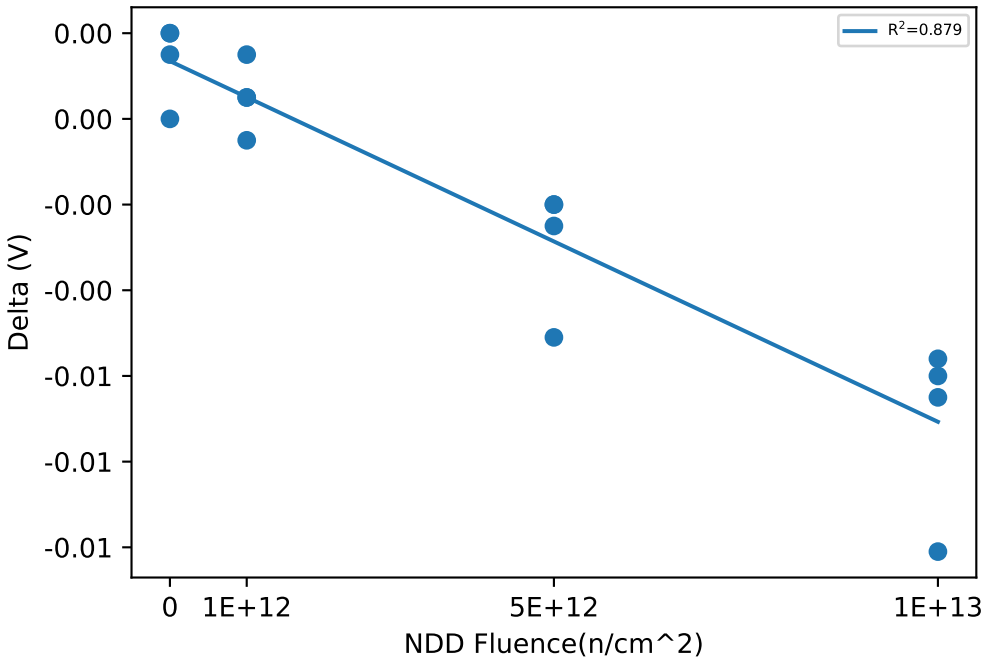
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.8922	1.8937	0.0015
266	1e+12	NDD	1.8847	1.8852	0.0005
267	1e+12	NDD	1.9068	1.9073	0.0005
288	1e+12	NDD	1.9023	1.9018	-0.0005
348	5e+12	NDD	1.8993	1.8942	-0.0051
353	5e+12	NDD	1.8882	1.8857	-0.0025
370	5e+12	NDD	1.8932	1.8912	-0.002
377	5e+12	NDD	1.8842	1.8822	-0.002
389	1e+13	NDD	1.9038	1.8982	-0.0056
394	1e+13	NDD	1.8907	1.8842	-0.0065
395	1e+13	NDD	1.9048	1.8947	-0.0101
571	1e+13	NDD	1.8897	1.8837	-0.006
649	0	CORRELATION	1.9108	1.9123	0.0015
662	0	CORRELATION	1.8942	1.8942	0
690	0	CORRELATION	1.8872	1.8892	0.002
708	0	CORRELATION	1.9028	1.9048	0.002

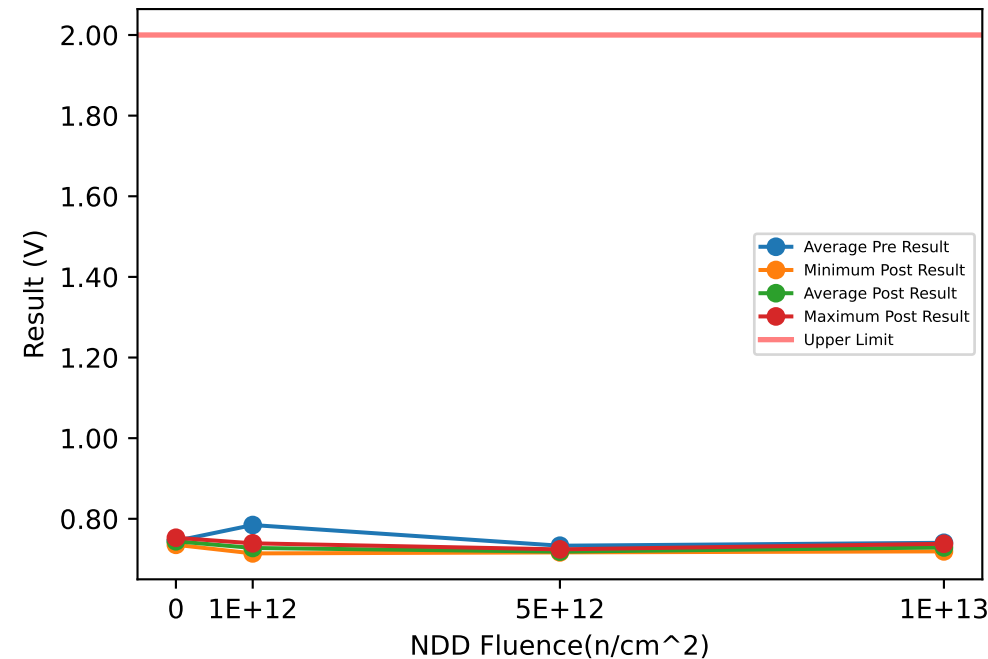
NDD vs Post - Pre Exposure Delta



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	1.8872	1.8988	1.9108	0.010258	1.8892	1.9001	1.9123	0.010401	0	0.001375	0.002	0.00094648
1e+12	1.8847	1.8965	1.9068	0.0099576	1.8852	1.897	1.9073	0.0096481	-0.0005	0.0005	0.0015	0.0008165
5e+12	1.8842	1.8912	1.8993	0.006522	1.8822	1.8883	1.8942	0.005391	-0.0051	-0.0029	-0.002	0.0014855
1e+13	1.8897	1.8973	1.9048	0.0081611	1.8837	1.8902	1.8982	0.0073598	-0.0101	-0.00705	-0.0056	0.0020664

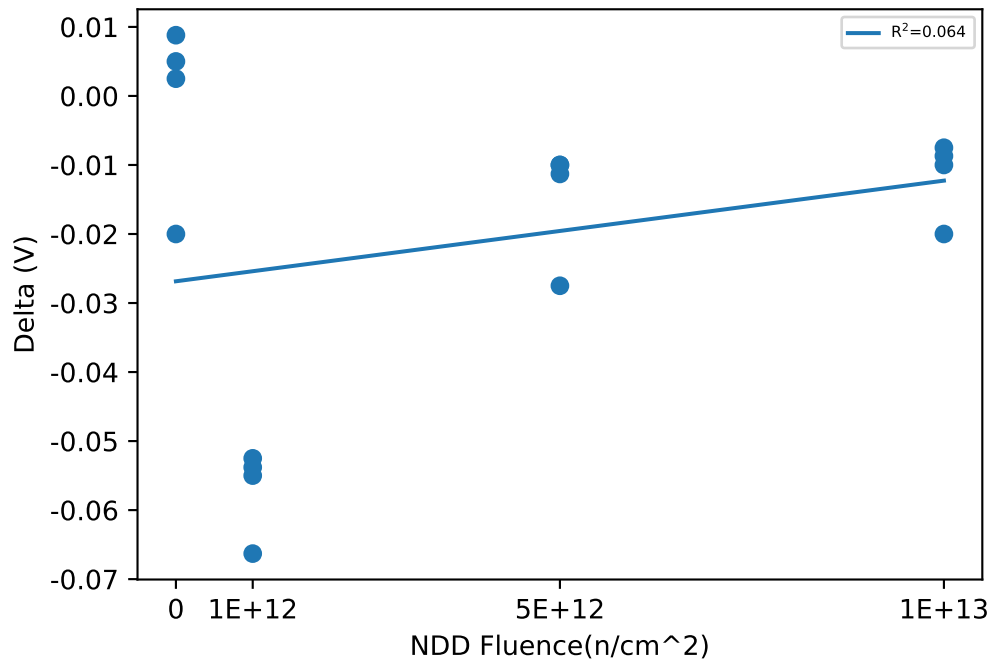
NDD vs Result Stats



Test Results (Upper Limit = 2.0 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.8055	0.7392	-0.0663
266	1e+12	NDD	0.768	0.7142	-0.0538
267	1e+12	NDD	0.7767	0.7242	-0.0525
288	1e+12	NDD	0.788	0.733	-0.055
348	5e+12	NDD	0.7442	0.7167	-0.0275
353	5e+12	NDD	0.7267	0.7167	-0.01
370	5e+12	NDD	0.7267	0.7167	-0.01
377	5e+12	NDD	0.7355	0.7242	-0.0113
389	1e+13	NDD	0.748	0.728	-0.02
394	1e+13	NDD	0.7392	0.7305	-0.0087
395	1e+13	NDD	0.7455	0.738	-0.0075
571	1e+13	NDD	0.7292	0.7192	-0.01
649	0	CORRELATION	0.7442	0.753	0.0088
662	0	CORRELATION	0.7405	0.7455	0.005
690	0	CORRELATION	0.733	0.7355	0.0025
708	0	CORRELATION	0.763	0.743	-0.02

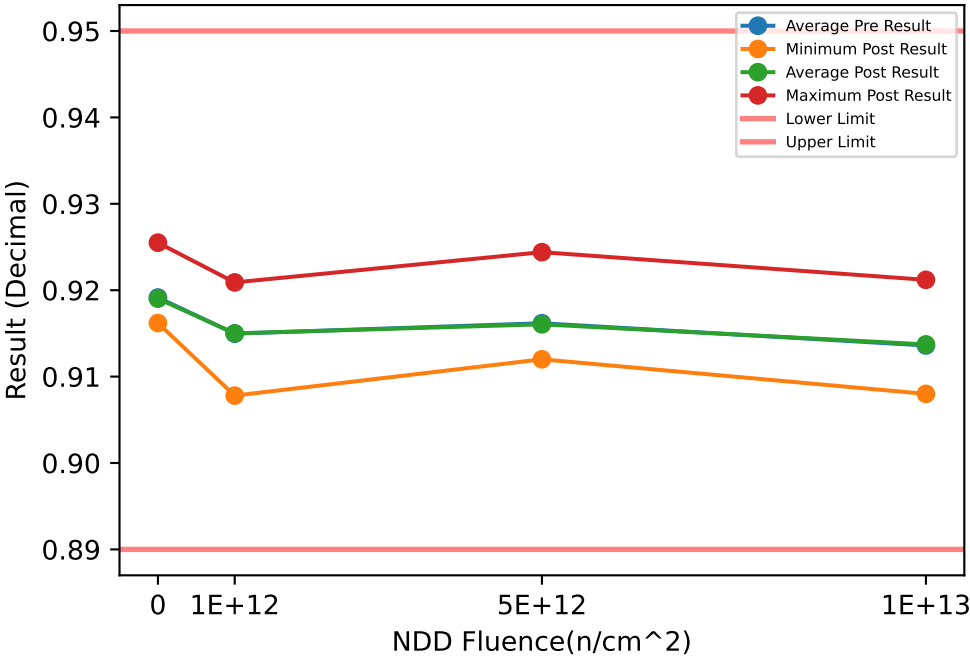
NDD vs Post - Pre Exposure Delta



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	0.733	0.74518	0.763	0.012764	0.7355	0.74425	0.753	0.0072169	-0.02	-0.000925	0.0088	0.012978
1e+12	0.768	0.78455	0.8055	0.01619	0.7142	0.72765	0.7392	0.010876	-0.0663	-0.0569	-0.0525	0.0063493
5e+12	0.7267	0.73328	0.7442	0.0083819	0.7167	0.71857	0.7242	0.00375	-0.0275	-0.0147	-0.01	0.0085553
1e+13	0.7292	0.74047	0.748	0.0083791	0.7192	0.72893	0.738	0.0077517	-0.02	-0.01155	-0.0075	0.0057251

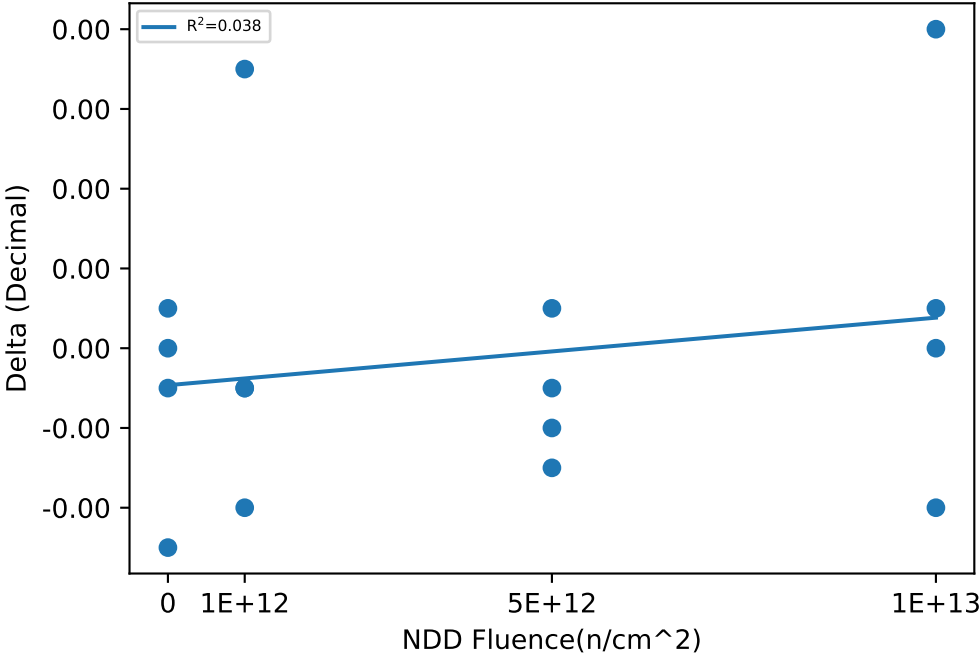
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.9202	0.9209	0.0007
266	1e+12	NDD	0.9079	0.9078	-0.0001
267	1e+12	NDD	0.9173	0.9169	-0.0004
288	1e+12	NDD	0.9145	0.9144	-0.0001
348	5e+12	NDD	0.9132	0.9133	0.0001
353	5e+12	NDD	0.9121	0.912	-0.0001
370	5e+12	NDD	0.9247	0.9244	-0.0003
377	5e+12	NDD	0.9147	0.9145	-0.0002
389	1e+13	NDD	0.9084	0.908	-0.0004
394	1e+13	NDD	0.9135	0.9136	0.0001
395	1e+13	NDD	0.9121	0.9121	0
571	1e+13	NDD	0.9204	0.9212	0.0008
649	0	CORRELATION	0.9255	0.9255	0
662	0	CORRELATION	0.9167	0.9162	-0.0005
690	0	CORRELATION	0.9168	0.9169	0.0001
708	0	CORRELATION	0.9176	0.9175	-0.0001

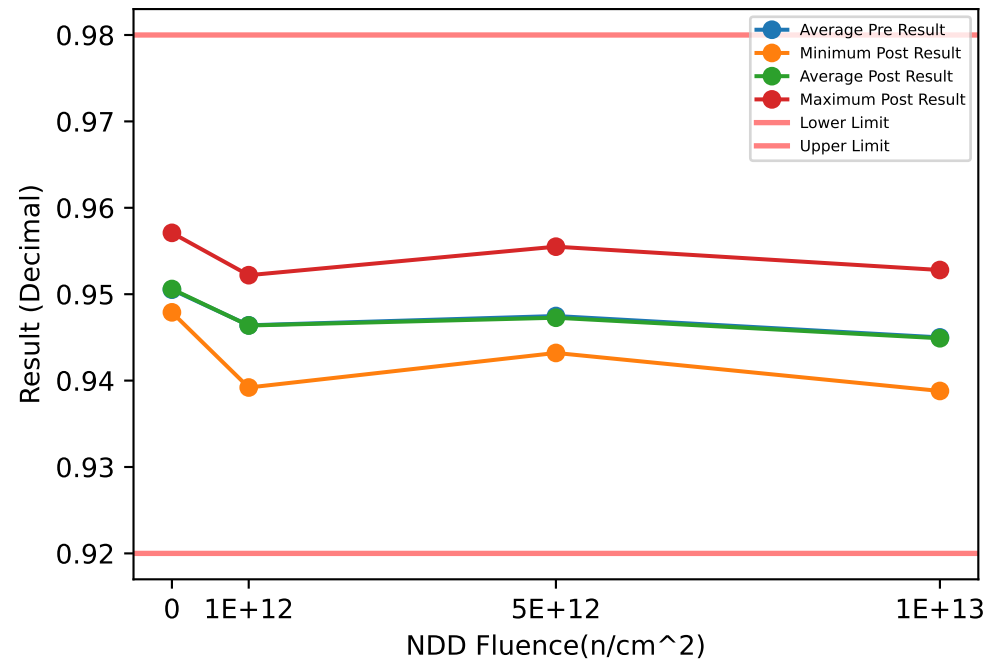
NDD vs Post - Pre Exposure Delta



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	0.9167	0.91915	0.9255	0.0042525	0.9162	0.91902	0.9255	0.0043492	-0.0005	-0.000125	0.0001	0.000263
1e+12	0.9079	0.91497	0.9202	0.0052595	0.9078	0.915	0.9209	0.0054961	-0.0004	2.5e-05	0.0007	0.0004717
5e+12	0.9121	0.91617	0.9247	0.0057824	0.912	0.91605	0.9244	0.0056595	-0.0003	-0.000125	0.0001	0.00017078
1e+13	0.9084	0.9136	0.9204	0.005018	0.908	0.91373	0.9212	0.0055169	-0.0004	0.000125	0.0008	0.00049917

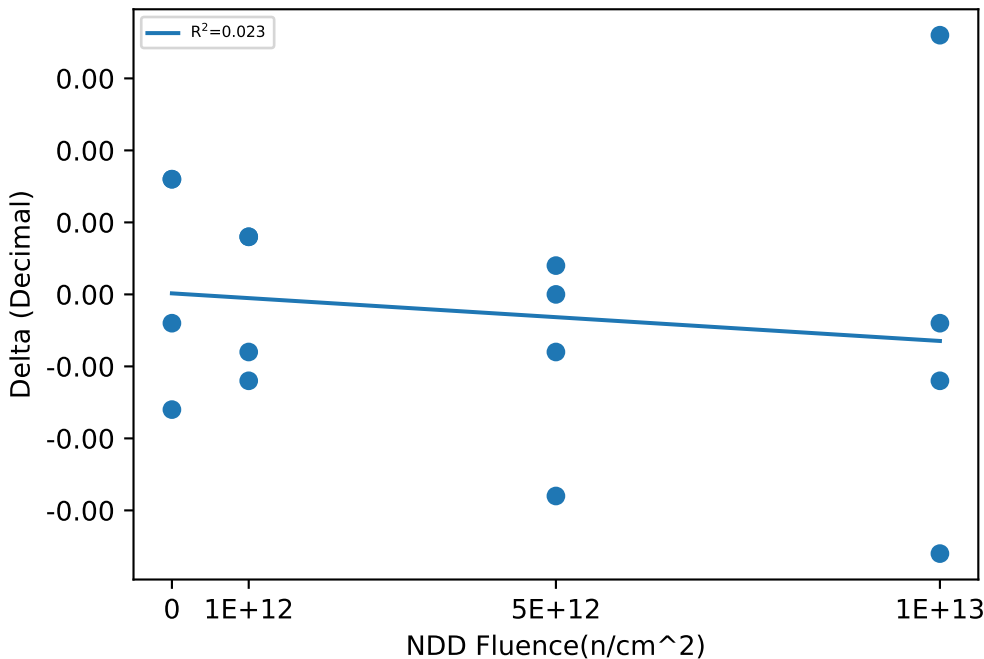
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.952	0.9522	0.0002
266	1e+12	NDD	0.939	0.9392	0.0002
267	1e+12	NDD	0.9488	0.9486	-0.0002
288	1e+12	NDD	0.9458	0.9455	-0.0003
348	5e+12	NDD	0.9447	0.9445	-0.0002
353	5e+12	NDD	0.9432	0.9432	0
370	5e+12	NDD	0.9562	0.9555	-0.0007
377	5e+12	NDD	0.9458	0.9459	0.0001
389	1e+13	NDD	0.9397	0.9388	-0.0009
394	1e+13	NDD	0.945	0.9447	-0.0003
395	1e+13	NDD	0.9434	0.9433	-0.0001
571	1e+13	NDD	0.9519	0.9528	0.0009
649	0	CORRELATION	0.9572	0.9571	-0.0001
662	0	CORRELATION	0.9483	0.9479	-0.0004
690	0	CORRELATION	0.948	0.9484	0.0004
708	0	CORRELATION	0.9486	0.949	0.0004

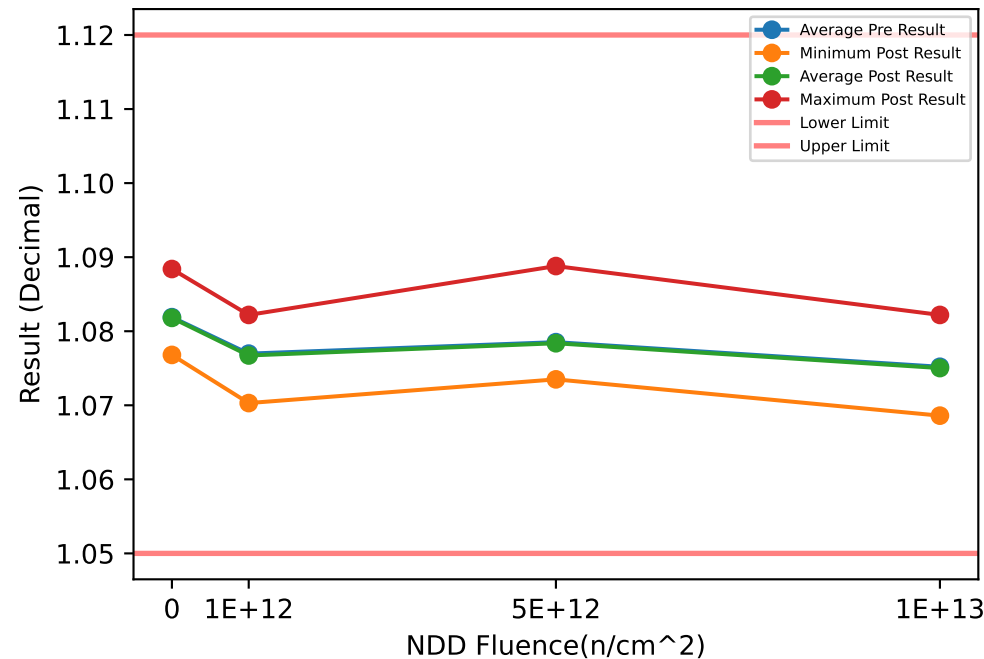
NDD vs Post - Pre Exposure Delta



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	0.948	0.95053	0.9572	0.0044567	0.9479	0.9506	0.9571	0.0043566	-0.0004	7.5e-05	0.0004	0.00039476
1e+12	0.939	0.9464	0.952	0.005545	0.9392	0.94637	0.9522	0.0055114	-0.0003	-2.5e-05	0.0002	0.000263
5e+12	0.9432	0.94748	0.9562	0.0059135	0.9432	0.94727	0.9555	0.0055931	-0.0007	-0.0002	0.0001	0.0003559
1e+13	0.9397	0.945	0.9519	0.0051075	0.9388	0.9449	0.9528	0.0058372	-0.0009	-0.0001	0.0009	0.00074833

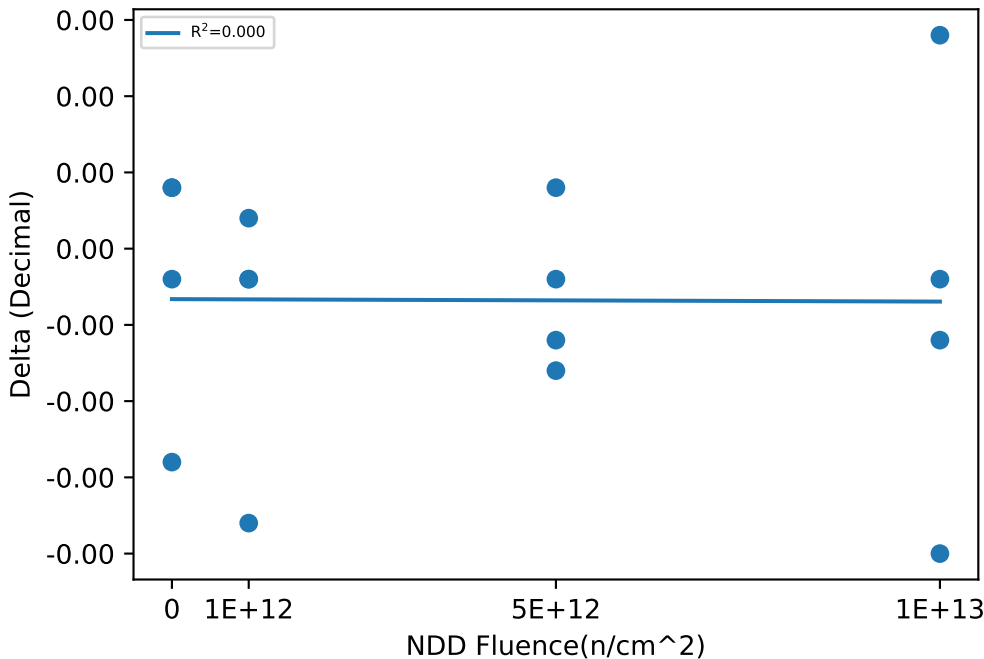
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0821	1.0822	0.0001
266	1e+12	NDD	1.0704	1.0703	-0.0001
267	1e+12	NDD	1.0795	1.0786	-0.0009
288	1e+12	NDD	1.0759	1.0758	-0.0001
348	5e+12	NDD	1.0747	1.0743	-0.0004
353	5e+12	NDD	1.0736	1.0735	-0.0001
370	5e+12	NDD	1.0891	1.0888	-0.0003
377	5e+12	NDD	1.0767	1.0769	0.0002
389	1e+13	NDD	1.0687	1.0686	-0.0001
394	1e+13	NDD	1.0755	1.0745	-0.001
395	1e+13	NDD	1.0751	1.0748	-0.0003
571	1e+13	NDD	1.0815	1.0822	0.0007
649	0	CORRELATION	1.0885	1.0884	-0.0001
662	0	CORRELATION	1.0775	1.0768	-0.0007
690	0	CORRELATION	1.0787	1.0789	0.0002
708	0	CORRELATION	1.0829	1.0831	0.0002

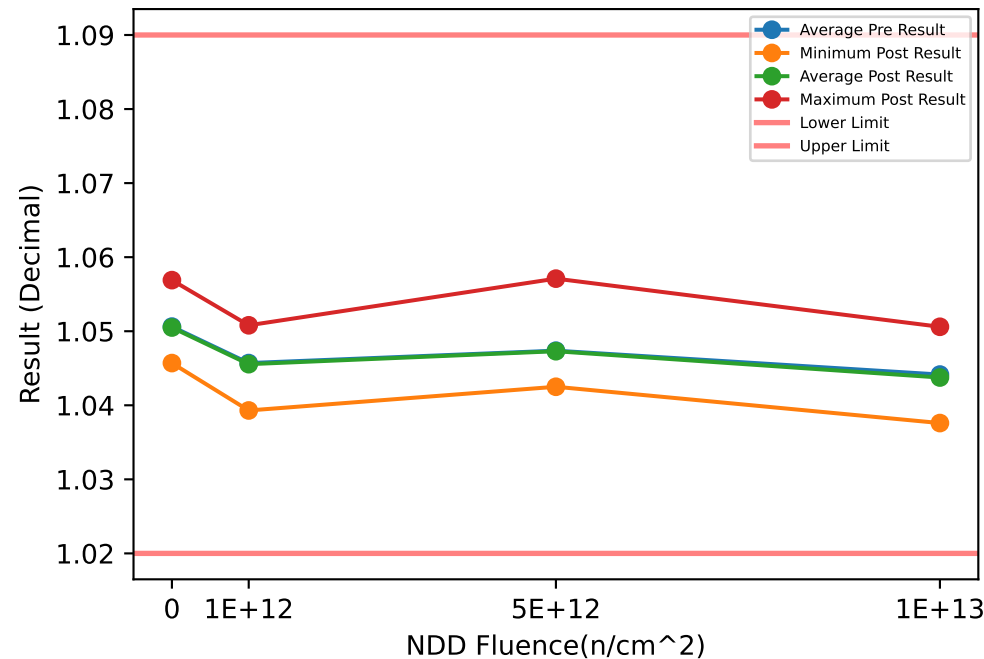
NDD vs Post - Pre Exposure Delta



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	1.0775	1.0819	1.0885	0.0049719	1.0768	1.0818	1.0884	0.0051205	-0.0007	-0.0001	0.0002	0.00042426
1e+12	1.0704	1.077	1.0821	0.0050671	1.0703	1.0767	1.0822	0.0050209	-0.0009	-0.00025	0.0001	0.00044347
5e+12	1.0736	1.0785	1.0891	0.0071658	1.0735	1.0784	1.0888	0.0070999	-0.0004	-0.00015	0.0002	0.00026458
1e+13	1.0687	1.0752	1.0815	0.0052294	1.0686	1.075	1.0822	0.0055704	-0.001	-0.000175	0.0007	0.0006994

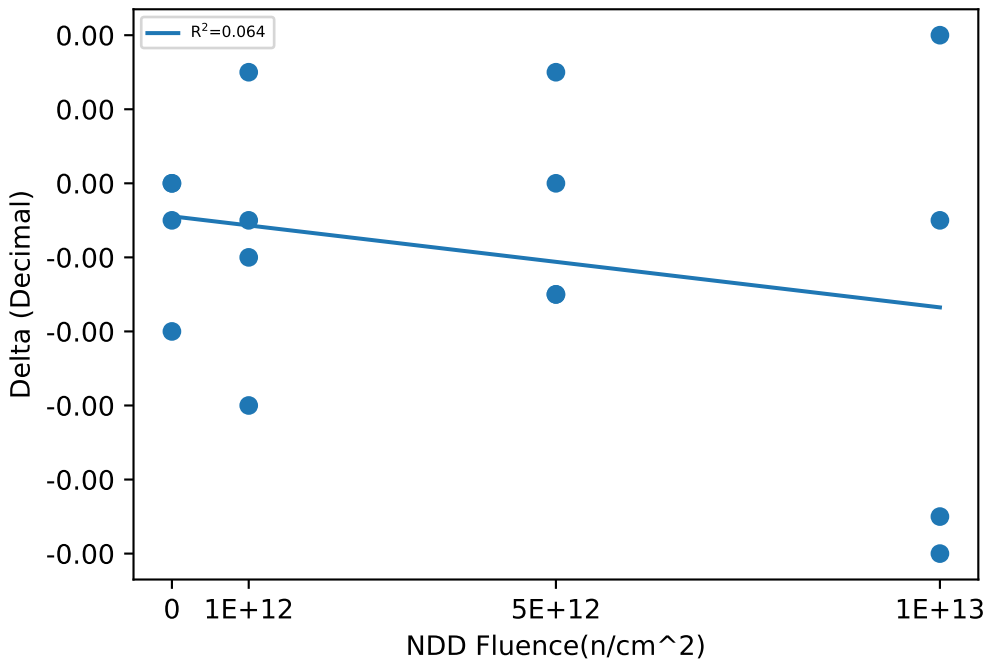
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0505	1.0508	0.0003
266	1e+12	NDD	1.0395	1.0393	-0.0002
267	1e+12	NDD	1.0482	1.0476	-0.0006
288	1e+12	NDD	1.0446	1.0445	-0.0001
348	5e+12	NDD	1.0438	1.0435	-0.0003
353	5e+12	NDD	1.0425	1.0425	0
370	5e+12	NDD	1.0574	1.0571	-0.0003
377	5e+12	NDD	1.0458	1.0461	0.0003
389	1e+13	NDD	1.0377	1.0376	-0.0001
394	1e+13	NDD	1.0443	1.0433	-0.001
395	1e+13	NDD	1.0444	1.0435	-0.0009
571	1e+13	NDD	1.0502	1.0506	0.0004
649	0	CORRELATION	1.057	1.0569	-0.0001
662	0	CORRELATION	1.0461	1.0457	-0.0004
690	0	CORRELATION	1.0476	1.0476	0
708	0	CORRELATION	1.0518	1.0518	0

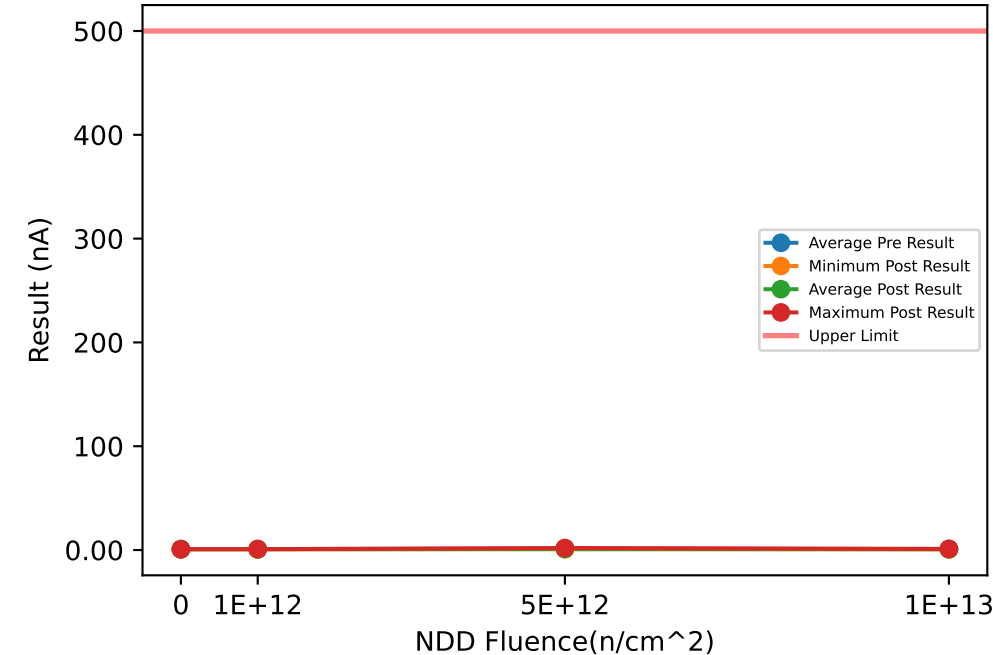
NDD vs Post - Pre Exposure Delta



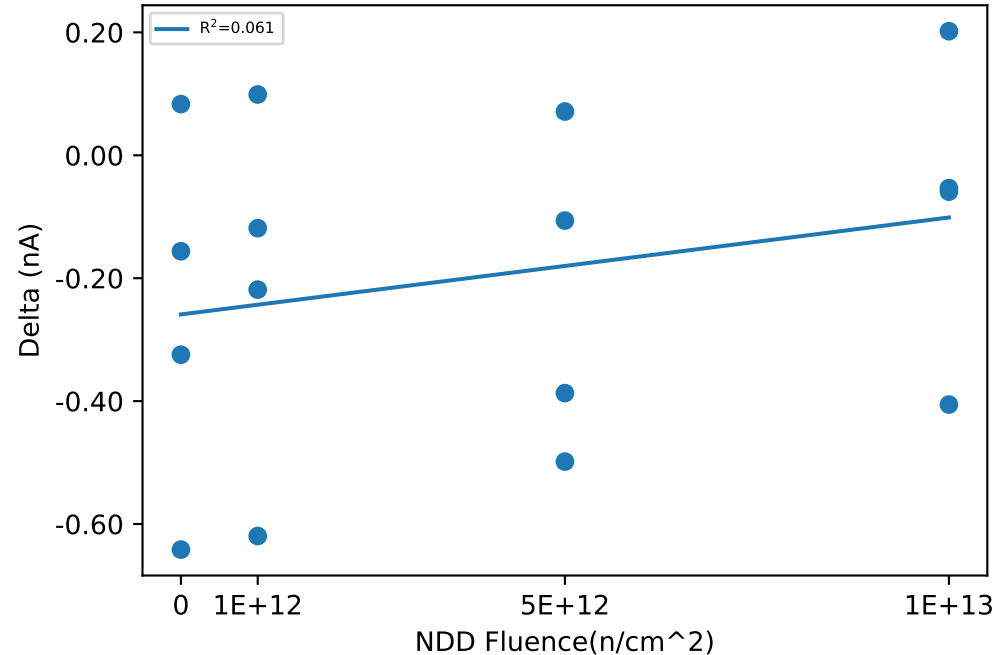
Test Statistics (Decimal)

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	1.0461	1.0506	1.057	0.004887	1.0457	1.0505	1.0569	0.0049699	-0.0004	-0.000125	0	0.0001893
1e+12	1.0395	1.0457	1.0505	0.0047937	1.0393	1.0455	1.0508	0.0048966	-0.0006	-0.00015	0.0003	0.00036968
5e+12	1.0425	1.0474	1.0574	0.0068198	1.0425	1.0473	1.0571	0.0067072	-0.0003	-7.5e-05	0.0003	0.00028723
1e+13	1.0377	1.0442	1.0502	0.0051085	1.0376	1.0437	1.0506	0.0053232	-0.001	-0.0004	0.0004	0.00066833

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



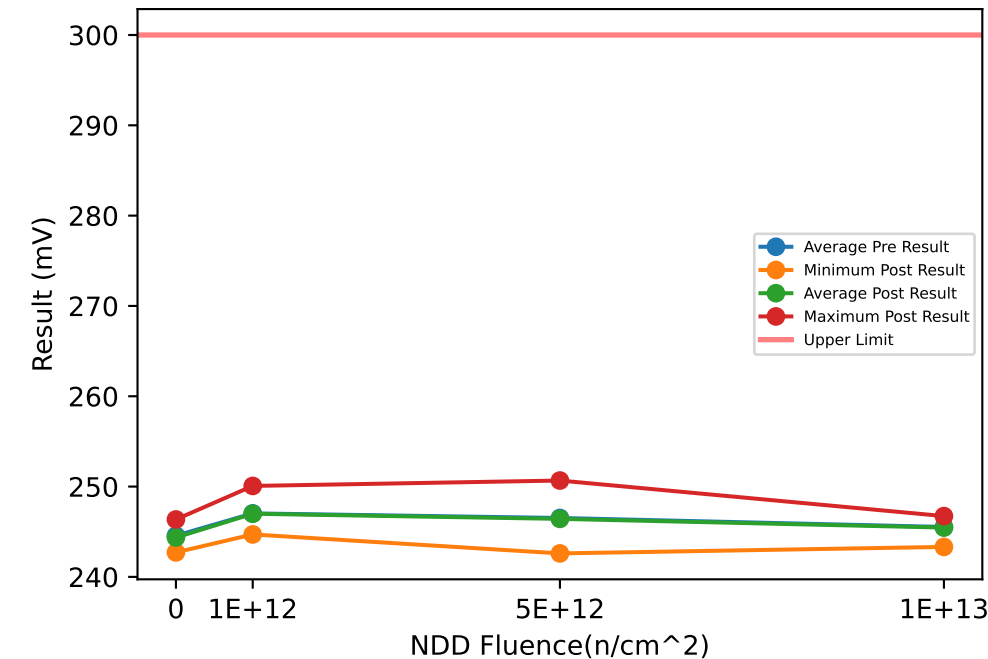
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2869	0.6674	-0.6195
266	1e+12	NDD	0.9971	0.7785	-0.2186
267	1e+12	NDD	0.7325	0.8314	0.0989
288	1e+12	NDD	0.9	0.7814	-0.1186
348	5e+12	NDD	1.3369	0.8385	-0.4984
353	5e+12	NDD	0.9565	0.8503	-0.1062
370	5e+12	NDD	1.8903	1.9615	0.0712
377	5e+12	NDD	1.0654	0.6784	-0.387
389	1e+13	NDD	1.4961	1.0905	-0.4056
394	1e+13	NDD	0.6632	0.6098	-0.0534
395	1e+13	NDD	0.6732	0.8751	0.2019
571	1e+13	NDD	0.8781	0.8189	-0.0592
649	0	CORRELATION	0.9222	0.766	-0.1562
662	0	CORRELATION	0.6482	0.7315	0.0833
690	0	CORRELATION	1.0435	0.719	-0.3245
708	0	CORRELATION	1.3681	0.7265	-0.6416

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	0.6482	0.9955	1.3681	0.2984	0.719	0.73575	0.766	0.020811	-0.6416	-0.25975	0.0833	0.30464
1e+12	0.7325	0.97913	1.2869	0.23247	0.6674	0.76467	0.8314	0.069247	-0.6195	-0.21445	0.0989	0.30081
5e+12	0.9565	1.3123	1.8903	0.41723	0.6784	1.0822	1.9615	0.59144	-0.4984	-0.2301	0.0712	0.25996
1e+13	0.6632	0.92765	1.4961	0.39169	0.6098	0.84857	1.0905	0.19759	-0.4056	-0.079075	0.2019	0.24941

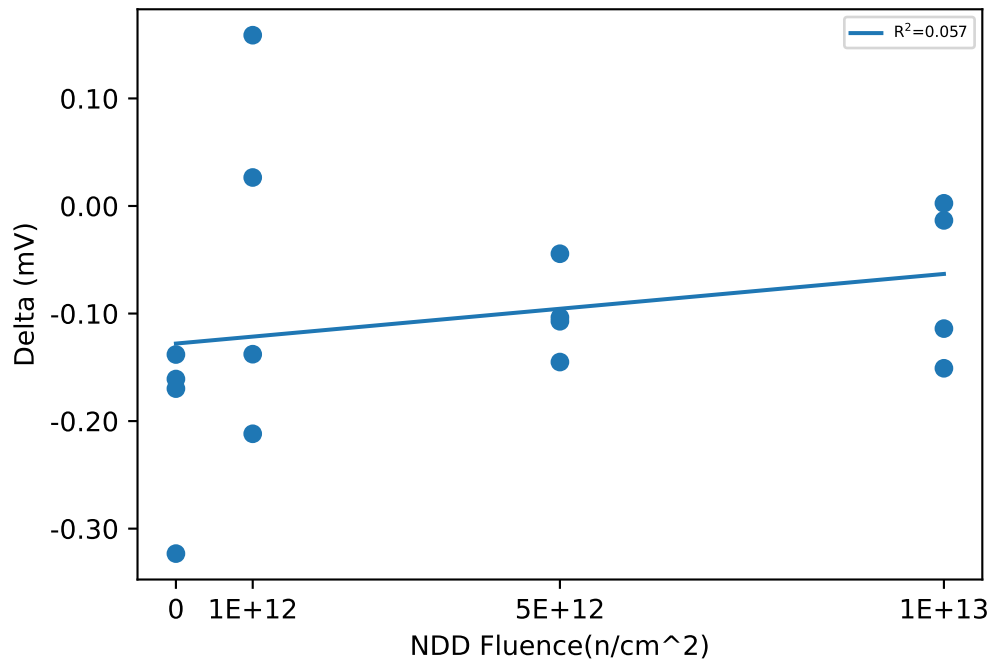
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	248.52	248.38	-0.1378
266	1e+12	NDD	250.28	250.07	-0.2118
267	1e+12	NDD	244.64	244.8	0.1588
288	1e+12	NDD	244.68	244.7	0.0265
348	5e+12	NDD	245.16	245.06	-0.1072
353	5e+12	NDD	247.47	247.37	-0.1036
370	5e+12	NDD	242.65	242.6	-0.0444
377	5e+12	NDD	250.81	250.67	-0.1451
389	1e+13	NDD	245.91	245.9	-0.0134
394	1e+13	NDD	246.04	245.89	-0.1509
395	1e+13	NDD	243.32	243.32	0.0025
571	1e+13	NDD	246.85	246.73	-0.114
649	0	CORRELATION	244.52	244.2	-0.3232
662	0	CORRELATION	242.85	242.71	-0.1381
690	0	CORRELATION	246.52	246.36	-0.1609
708	0	CORRELATION	244.35	244.18	-0.1698

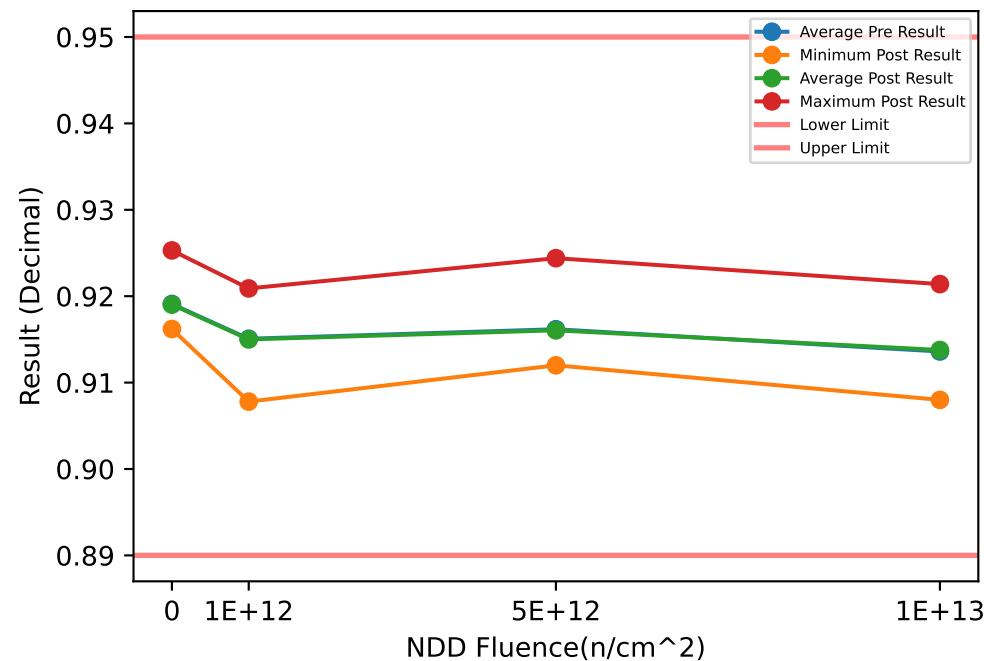
NDD vs Post - Pre Exposure Delta



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	242.85	244.56	246.52	1.5064	242.71	244.36	246.36	1.5019	-0.3232	-0.198	-0.1381	0.084528
1e+12	244.64	247.03	250.28	2.831	244.7	246.99	250.07	2.6743	-0.2118	-0.041075	0.1588	0.16635
5e+12	242.65	246.52	250.81	3.473	242.6	246.42	250.67	3.4344	-0.1451	-0.10007	-0.0444	0.041594
1e+13	243.32	245.53	246.85	1.5312	243.32	245.46	246.73	1.4805	-0.1509	-0.06895	0.0025	0.075136

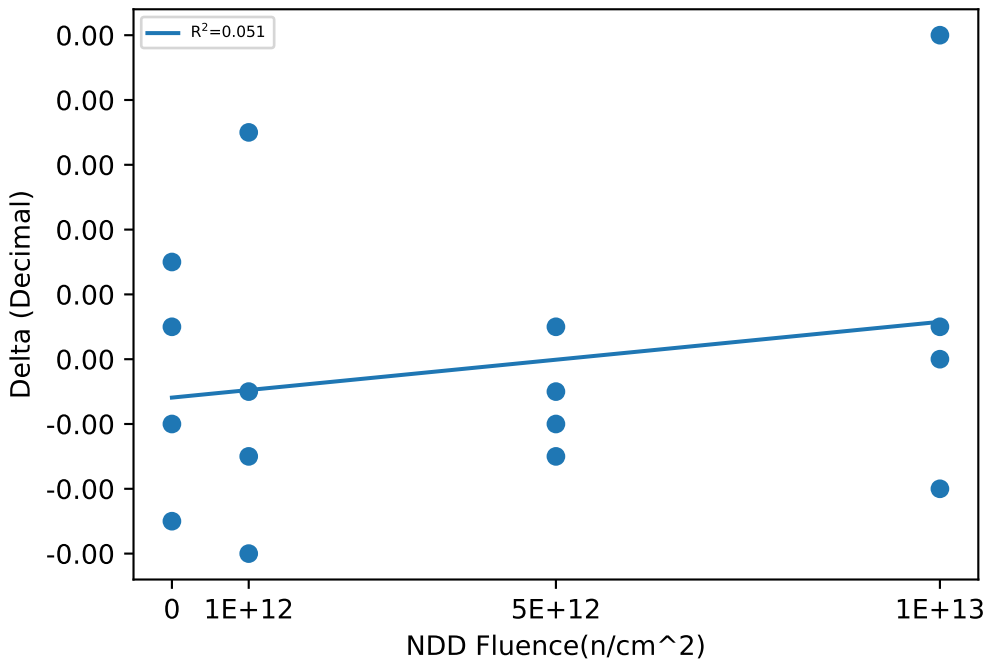
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.9202	0.9209	0.0007
266	1e+12	NDD	0.9081	0.9078	-0.0003
267	1e+12	NDD	0.9175	0.9169	-0.0006
288	1e+12	NDD	0.9145	0.9144	-0.0001
348	5e+12	NDD	0.9132	0.9133	0.0001
353	5e+12	NDD	0.9121	0.912	-0.0001
370	5e+12	NDD	0.9247	0.9244	-0.0003
377	5e+12	NDD	0.9147	0.9145	-0.0002
389	1e+13	NDD	0.9084	0.908	-0.0004
394	1e+13	NDD	0.9135	0.9136	0.0001
395	1e+13	NDD	0.9121	0.9121	0
571	1e+13	NDD	0.9204	0.9214	0.001
649	0	CORRELATION	0.9255	0.9253	-0.0002
662	0	CORRELATION	0.9167	0.9162	-0.0005
690	0	CORRELATION	0.9168	0.9171	0.0003
708	0	CORRELATION	0.9174	0.9175	0.0001

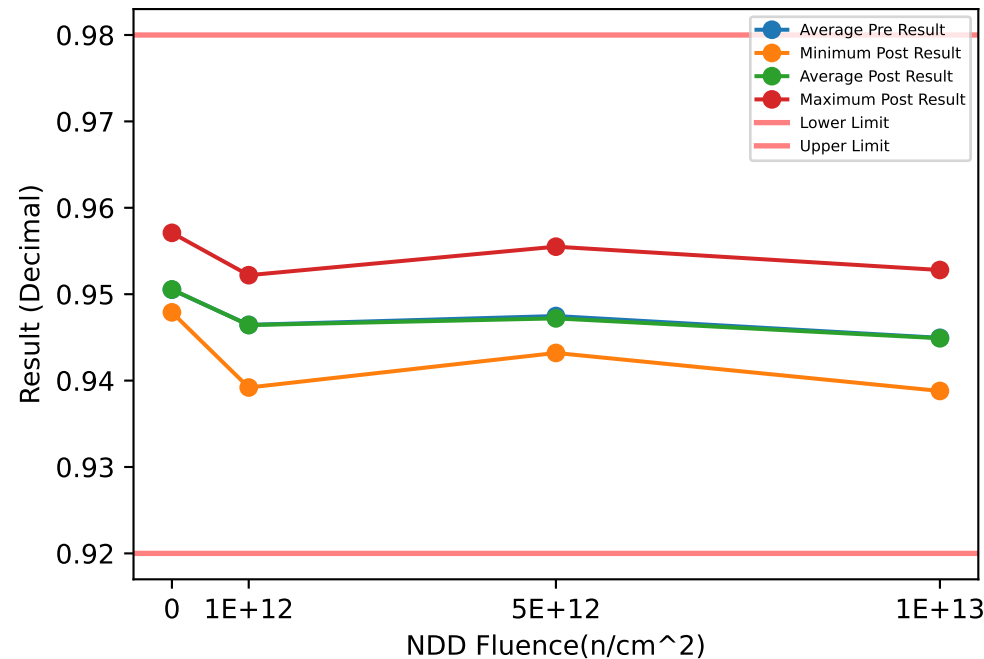
NDD vs Post - Pre Exposure Delta



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	0.9167	0.9191	0.9255	0.0042778	0.9162	0.91902	0.9253	0.0042185	-0.0005	-7.5e-05	0.0003	0.00035
1e+12	0.9081	0.91507	0.9202	0.0052002	0.9078	0.915	0.9209	0.0054961	-0.0006	-7.5e-05	0.0007	0.00055603
5e+12	0.9121	0.91617	0.9247	0.0057824	0.912	0.91605	0.9244	0.0056595	-0.0003	-0.000125	0.0001	0.00017078
1e+13	0.9084	0.9136	0.9204	0.005018	0.908	0.91378	0.9214	0.0056074	-0.0004	0.000175	0.001	0.0005909

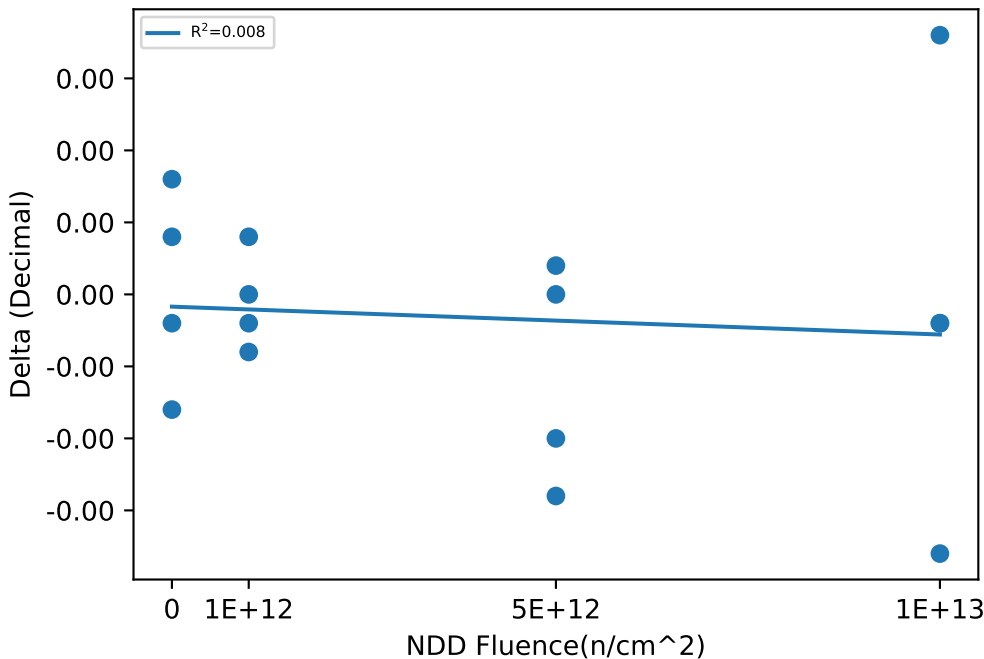
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.952	0.9522	0.0002
266	1e+12	NDD	0.9392	0.9392	0
267	1e+12	NDD	0.9488	0.9486	-0.0002
288	1e+12	NDD	0.9458	0.9457	-0.0001
348	5e+12	NDD	0.9447	0.9442	-0.0005
353	5e+12	NDD	0.9432	0.9432	0
370	5e+12	NDD	0.9562	0.9555	-0.0007
377	5e+12	NDD	0.9458	0.9459	0.0001
389	1e+13	NDD	0.9397	0.9388	-0.0009
394	1e+13	NDD	0.9448	0.9447	-0.0001
395	1e+13	NDD	0.9434	0.9433	-0.0001
571	1e+13	NDD	0.9519	0.9528	0.0009
649	0	CORRELATION	0.9572	0.9571	-0.0001
662	0	CORRELATION	0.9483	0.9479	-0.0004
690	0	CORRELATION	0.948	0.9482	0.0002
708	0	CORRELATION	0.9486	0.949	0.0004

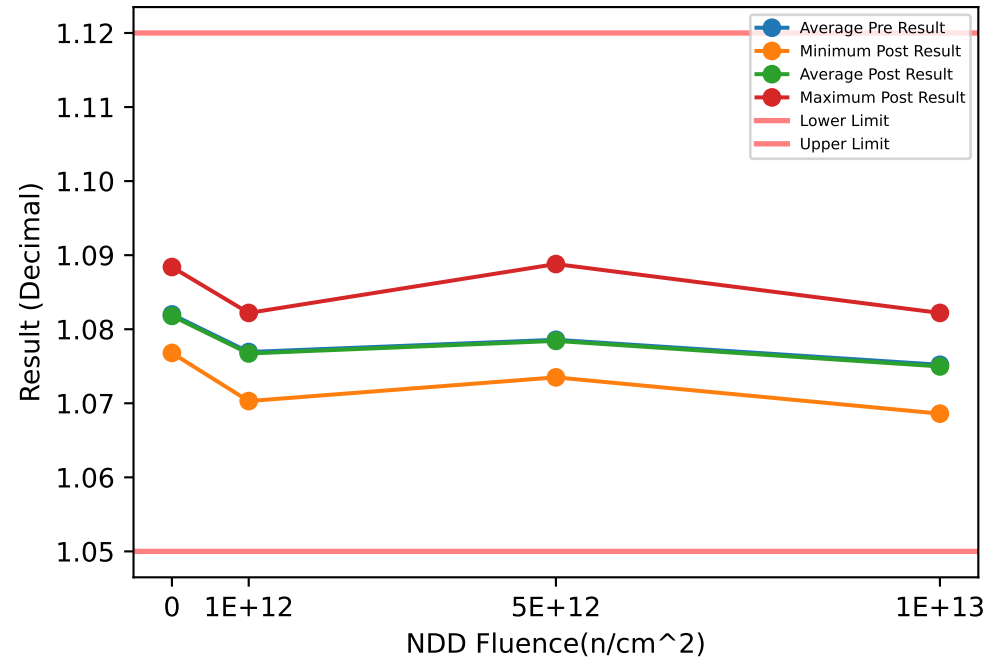
NDD vs Post - Pre Exposure Delta



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	0.948	0.95053	0.9572	0.0044567	0.9479	0.95055	0.9571	0.0043913	-0.0004	2.5e-05	0.0004	0.00035
1e+12	0.9392	0.94645	0.952	0.0054562	0.9392	0.94643	0.9522	0.0055017	-0.0002	-2.5e-05	0.0002	0.00017078
5e+12	0.9432	0.94748	0.9562	0.0059135	0.9432	0.9472	0.9555	0.0056445	-0.0007	-0.000275	0.0001	0.00038622
1e+13	0.9397	0.94495	0.9519	0.0051085	0.9388	0.9449	0.9528	0.0058372	-0.0009	-5e-05	0.0009	0.00073711

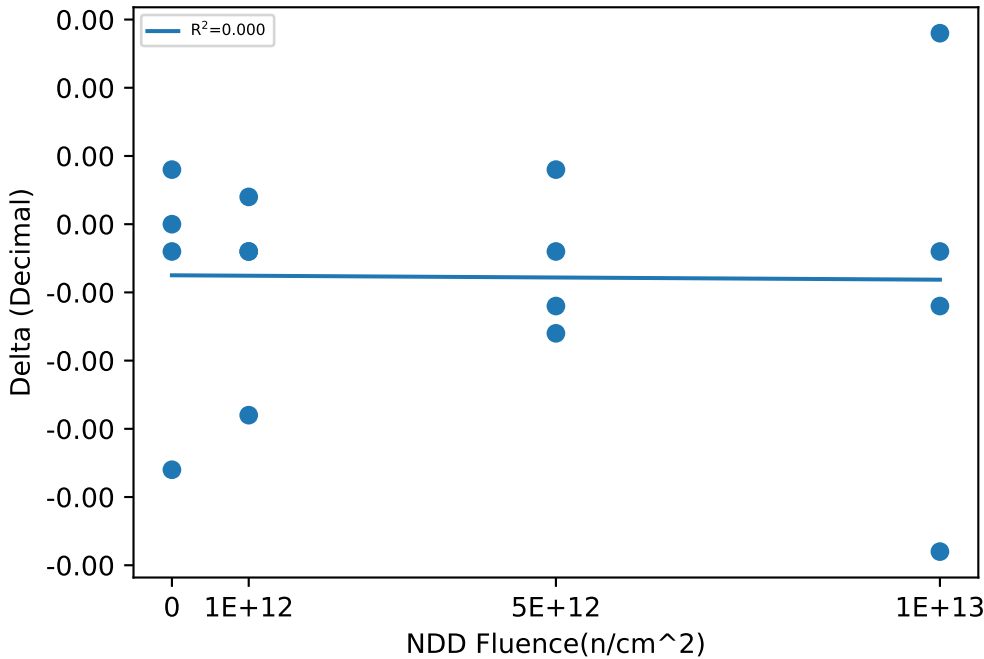
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0821	1.0822	0.0001
266	1e+12	NDD	1.0704	1.0703	-0.0001
267	1e+12	NDD	1.0793	1.0786	-0.0007
288	1e+12	NDD	1.0759	1.0758	-0.0001
348	5e+12	NDD	1.0747	1.0743	-0.0004
353	5e+12	NDD	1.0736	1.0735	-0.0001
370	5e+12	NDD	1.0891	1.0888	-0.0003
377	5e+12	NDD	1.0769	1.0771	0.0002
389	1e+13	NDD	1.0687	1.0686	-0.0001
394	1e+13	NDD	1.0755	1.0743	-0.0012
395	1e+13	NDD	1.0751	1.0748	-0.0003
571	1e+13	NDD	1.0815	1.0822	0.0007
649	0	CORRELATION	1.0885	1.0884	-0.0001
662	0	CORRELATION	1.0777	1.0768	-0.0009
690	0	CORRELATION	1.0787	1.0789	0.0002
708	0	CORRELATION	1.0831	1.0831	0

NDD vs Post - Pre Exposure Delta

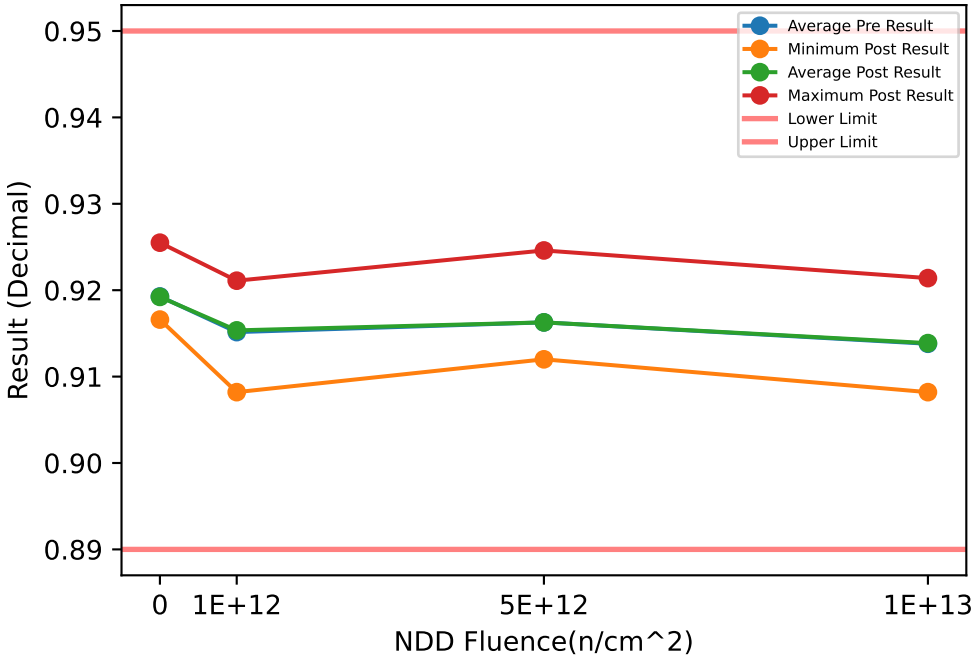


Test Statistics (Decimal)

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	1.0777	1.082	1.0885	0.0049275	1.0768	1.0818	1.0884	0.0051205	-0.0009	-0.0002	0.0002	0.00048305
1e+12	1.0704	1.0769	1.0821	0.0050348	1.0703	1.0767	1.0822	0.0050209	-0.0007	-0.0002	0.0001	0.00034641
5e+12	1.0736	1.0786	1.0891	0.0071495	1.0735	1.0784	1.0888	0.0070868	-0.0004	-0.00015	0.0002	0.00026458
1e+13	1.0687	1.0752	1.0815	0.0052294	1.0686	1.075	1.0822	0.0055776	-0.0012	-0.000225	0.0007	0.00078049

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

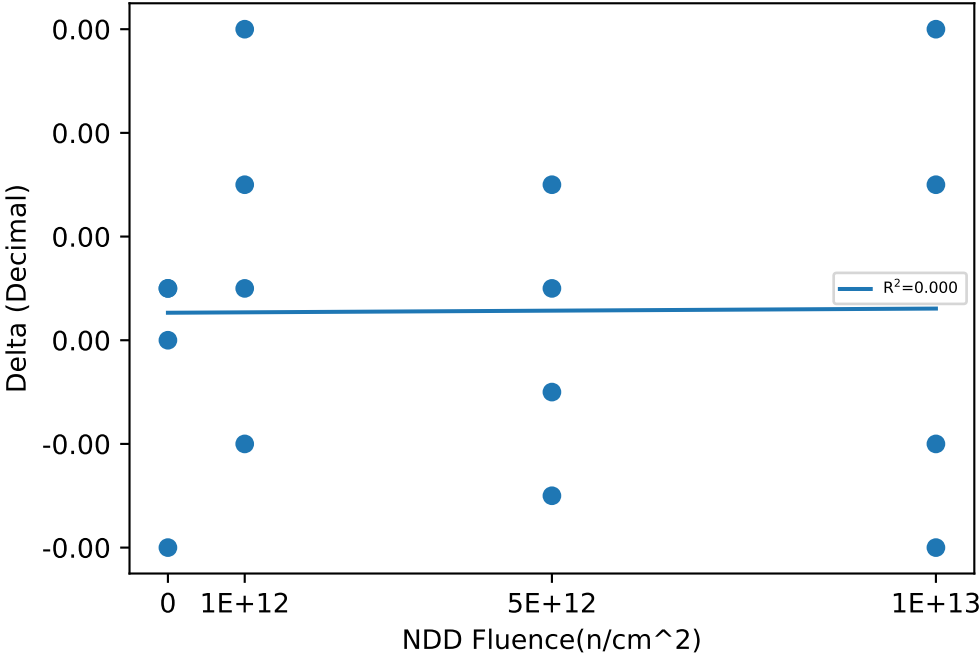
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.9205	0.9211	0.0006
266	1e+12	NDD	0.9081	0.9082	0.0001
267	1e+12	NDD	0.9175	0.9173	-0.0002
288	1e+12	NDD	0.9145	0.9148	0.0003
348	5e+12	NDD	0.9134	0.9135	0.0001
353	5e+12	NDD	0.9123	0.912	-0.0003
370	5e+12	NDD	0.9247	0.9246	-0.0001
377	5e+12	NDD	0.9147	0.915	0.0003
389	1e+13	NDD	0.9086	0.9082	-0.0004
394	1e+13	NDD	0.9135	0.9138	0.0003
395	1e+13	NDD	0.9123	0.9121	-0.0002
571	1e+13	NDD	0.9208	0.9214	0.0006
649	0	CORRELATION	0.9255	0.9255	0
662	0	CORRELATION	0.917	0.9166	-0.0004
690	0	CORRELATION	0.917	0.9171	0.0001
708	0	CORRELATION	0.9176	0.9177	0.0001

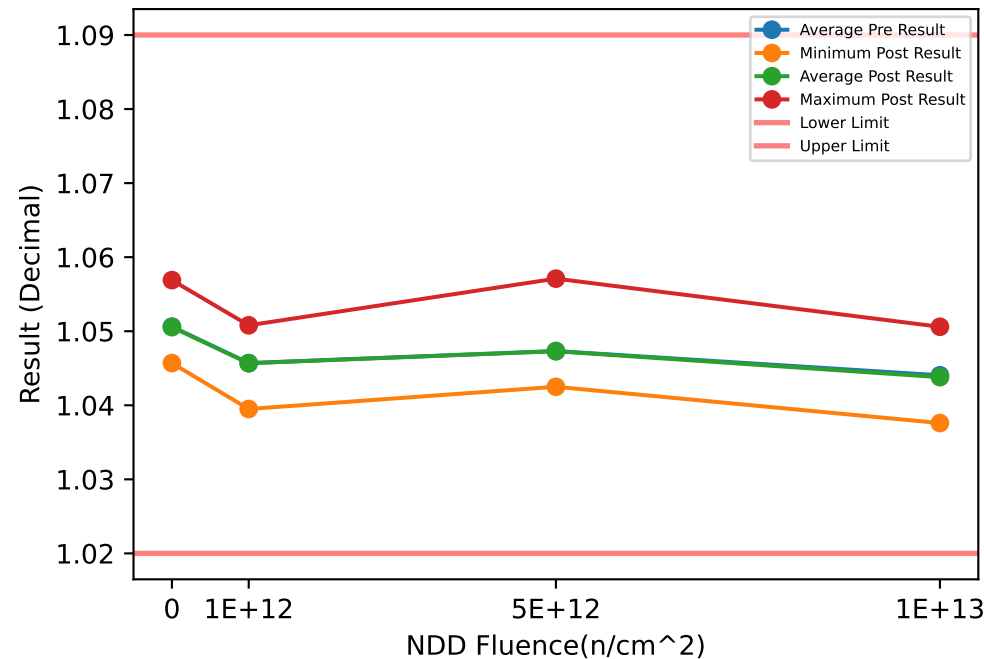
NDD vs Post - Pre Exposure Delta



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	0.917	0.91928	0.9255	0.0041596	0.9166	0.91922	0.9255	0.0042074	-0.0004	-5e-05	0.0001	0.00023805
1e+12	0.9081	0.91515	0.9205	0.0053	0.9082	0.91535	0.9211	0.0054249	-0.0002	0.0002	0.0006	0.00033665
5e+12	0.9123	0.91627	0.9247	0.0057017	0.912	0.91627	0.9246	0.0056835	-0.0003	2.7756e-17	0.0003	0.0002582
1e+13	0.9086	0.9138	0.9208	0.0051114	0.9082	0.91387	0.9214	0.0055374	-0.0004	7.5e-05	0.0006	0.00045735

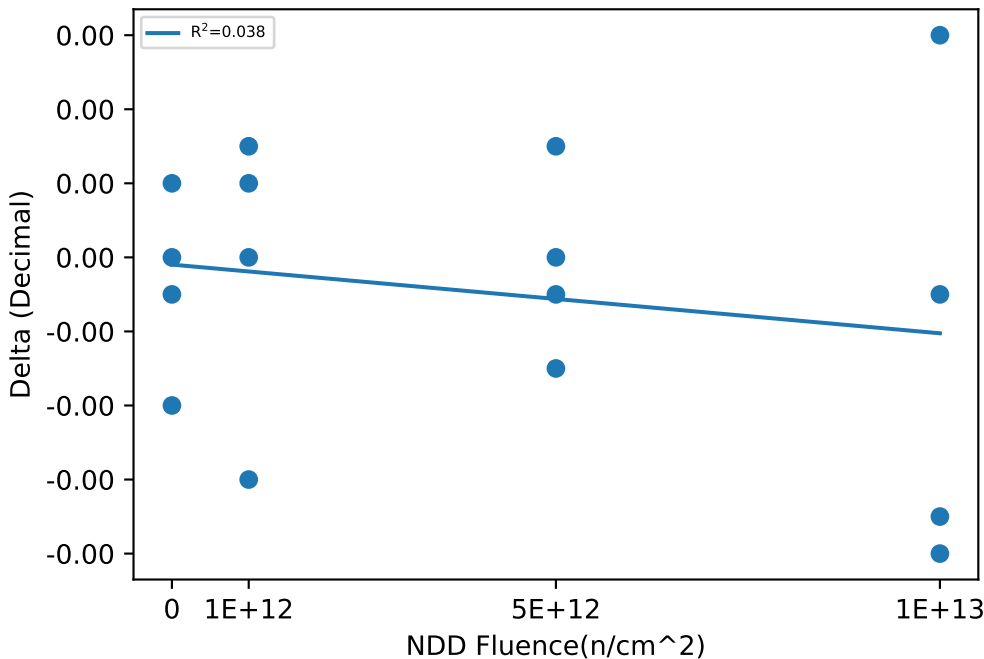
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0505	1.0508	0.0003
266	1e+12	NDD	1.0395	1.0395	0
267	1e+12	NDD	1.0482	1.0476	-0.0006
288	1e+12	NDD	1.0446	1.0448	0.0002
348	5e+12	NDD	1.0436	1.0435	-0.0001
353	5e+12	NDD	1.0425	1.0425	0
370	5e+12	NDD	1.0574	1.0571	-0.0003
377	5e+12	NDD	1.0458	1.0461	0.0003
389	1e+13	NDD	1.0377	1.0376	-0.0001
394	1e+13	NDD	1.0441	1.0433	-0.0008
395	1e+13	NDD	1.0444	1.0437	-0.0007
571	1e+13	NDD	1.05	1.0506	0.0006
649	0	CORRELATION	1.057	1.0569	-0.0001
662	0	CORRELATION	1.0461	1.0457	-0.0004
690	0	CORRELATION	1.0476	1.0478	0.0002
708	0	CORRELATION	1.0518	1.0518	0

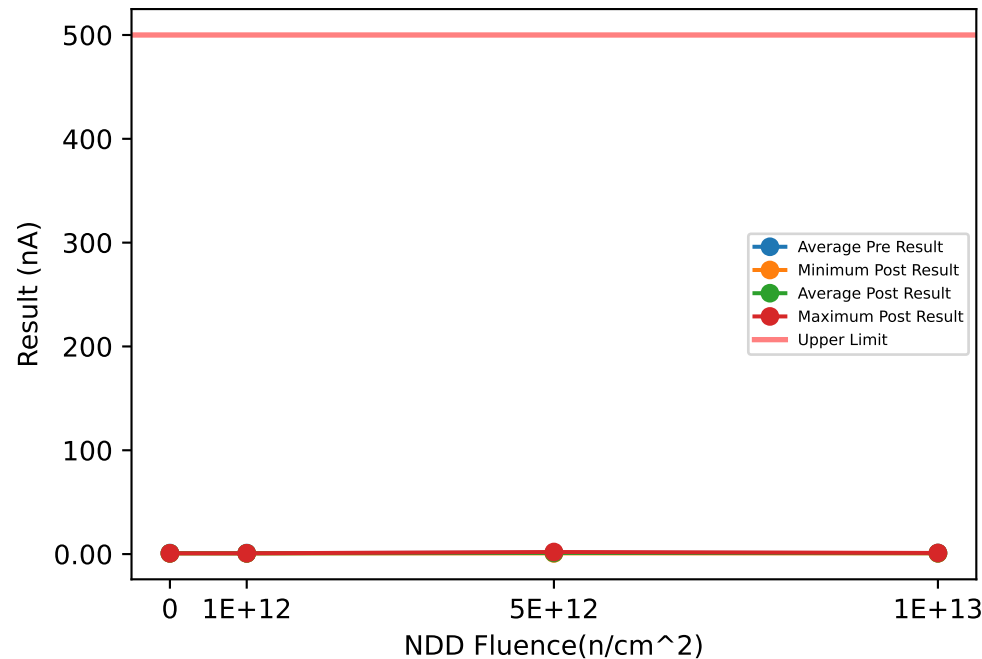
NDD vs Post - Pre Exposure Delta



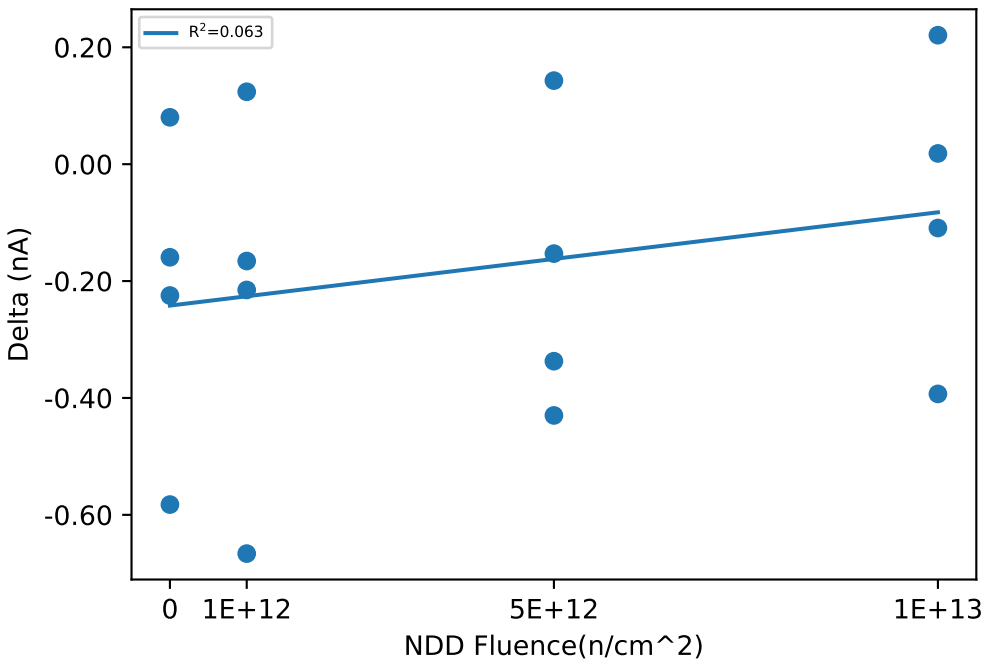
Test Statistics (Decimal)

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	1.0461	1.0506	1.057	0.004887	1.0457	1.0506	1.0569	0.0049319	-0.0004	-7.5e-05	0.0002	0.00025
1e+12	1.0395	1.0457	1.0505	0.0047937	1.0395	1.0457	1.0508	0.0047912	-0.0006	-2.5e-05	0.0003	0.00040311
5e+12	1.0425	1.0473	1.0574	0.0068554	1.0425	1.0473	1.0571	0.0067072	-0.0003	-2.5e-05	0.0003	0.00025
1e+13	1.0377	1.044	1.05	0.0050283	1.0376	1.0438	1.0506	0.005321	-0.0008	-0.00025	0.0006	0.0006455

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



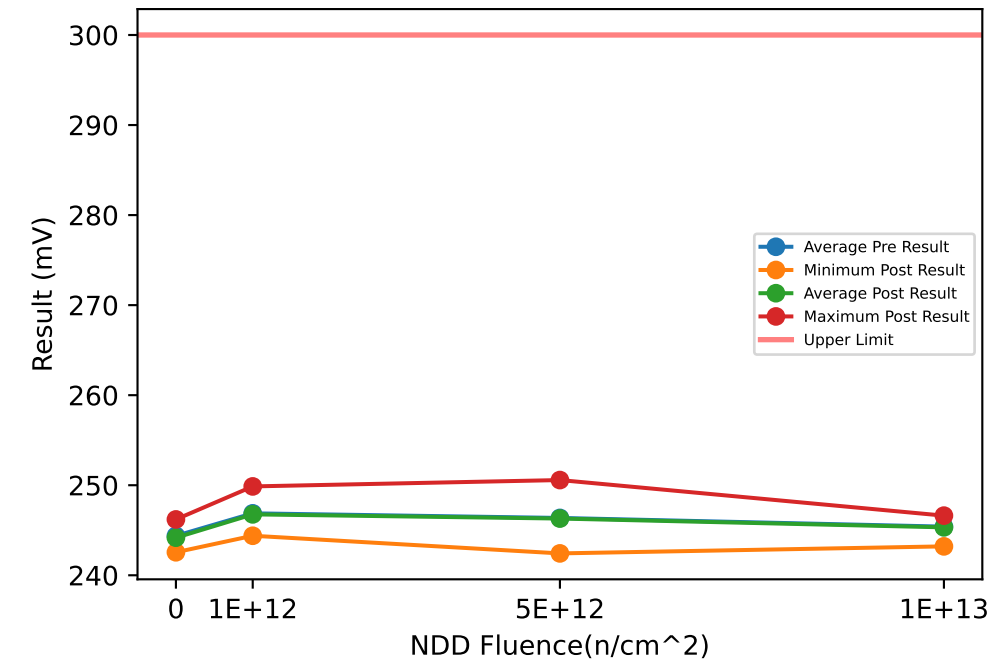
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.3493	0.683	-0.6663
266	1e+12	NDD	0.8817	0.716	-0.1657
267	1e+12	NDD	0.6669	0.7908	0.1239
288	1e+12	NDD	0.9561	0.7409	-0.2152
348	5e+12	NDD	1.3306	0.9007	-0.4299
353	5e+12	NDD	0.9409	0.7879	-0.153
370	5e+12	NDD	1.8653	2.0083	0.143
377	5e+12	NDD	1.003	0.6659	-0.3371
389	1e+13	NDD	1.4836	1.0905	-0.3931
394	1e+13	NDD	0.6851	0.7035	0.0184
395	1e+13	NDD	0.7481	0.9688	0.2207
571	1e+13	NDD	0.9749	0.8657	-0.1092
649	0	CORRELATION	0.9253	0.766	-0.1593
662	0	CORRELATION	0.6326	0.7128	0.0802
690	0	CORRELATION	1.003	0.7783	-0.2247
708	0	CORRELATION	1.3556	0.7732	-0.5824

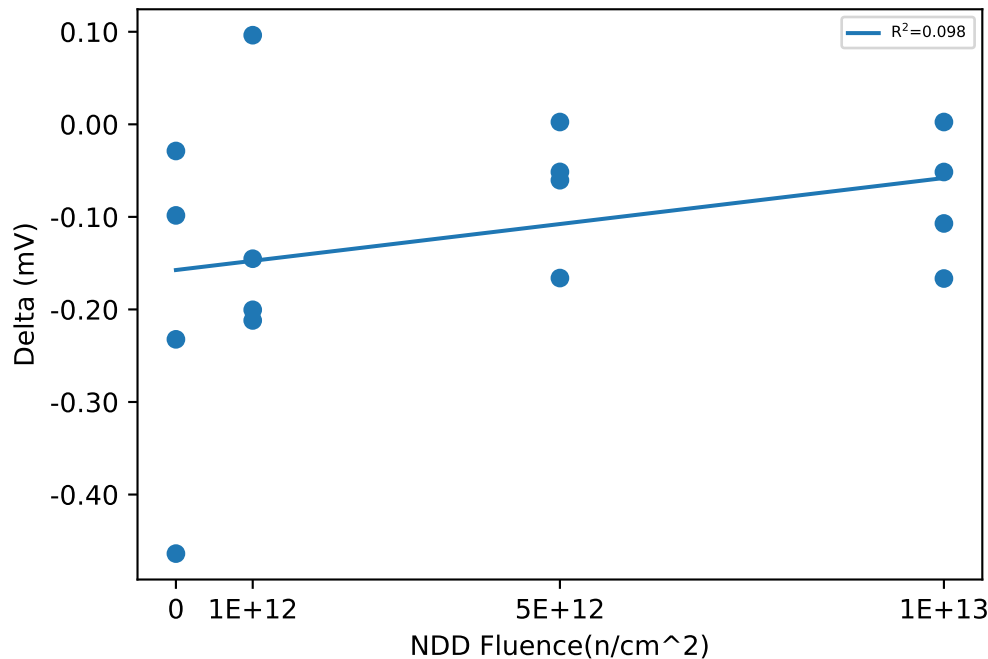
Test Statistics (nA)

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	0.6326	0.97913	1.3556	0.29737	0.7128	0.75757	0.7783	0.030273	-0.5824	-0.22155	0.0802	0.27395
1e+12	0.6669	0.9635	1.3493	0.28493	0.683	0.73267	0.7908	0.045431	-0.6663	-0.23083	0.1239	0.32658
5e+12	0.9409	1.285	1.8653	0.42299	0.6659	1.0907	2.0083	0.6192	-0.4299	-0.19425	0.143	0.25257
1e+13	0.6851	0.97293	1.4836	0.36248	0.7035	0.90712	1.0905	0.16392	-0.3931	-0.0658	0.2207	0.25702

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



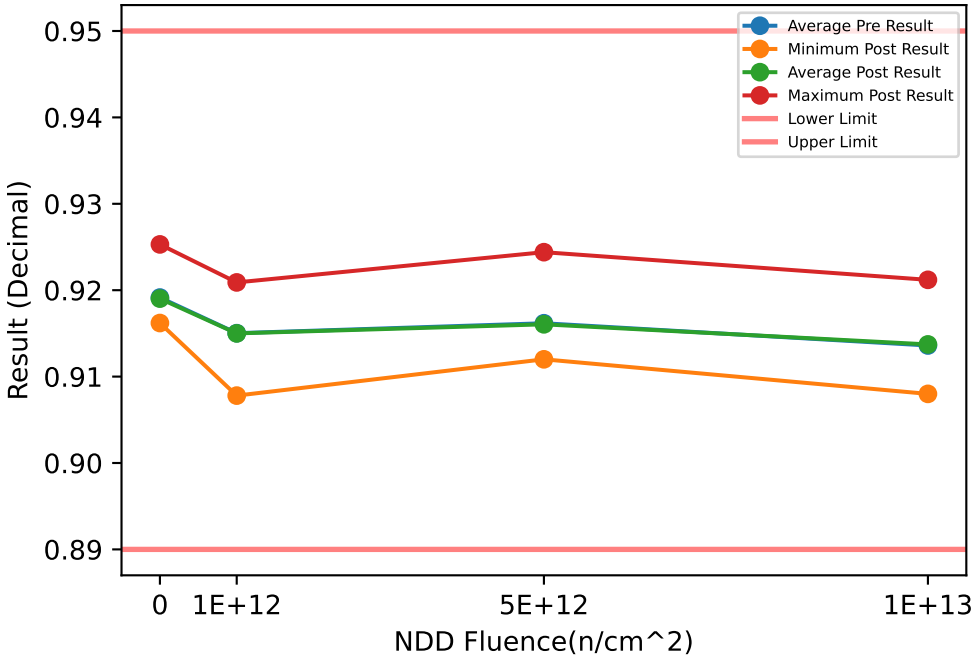
Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	248.32	248.12	-0.2004
266	1e+12	NDD	250.08	249.87	-0.2119
267	1e+12	NDD	244.58	244.68	0.0963
288	1e+12	NDD	244.53	244.39	-0.1452
348	5e+12	NDD	244.99	244.93	-0.0604
353	5e+12	NDD	247.43	247.26	-0.1661
370	5e+12	NDD	242.43	242.43	0.0025
377	5e+12	NDD	250.63	250.57	-0.0514
389	1e+13	NDD	245.85	245.74	-0.1071
394	1e+13	NDD	245.88	245.71	-0.1666
395	1e+13	NDD	243.21	243.21	0.0025
571	1e+13	NDD	246.67	246.62	-0.0515
649	0	CORRELATION	244.48	244.01	-0.4638
662	0	CORRELATION	242.58	242.55	-0.0288
690	0	CORRELATION	246.3	246.2	-0.0984
708	0	CORRELATION	244.16	243.93	-0.2323

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	242.58	244.38	246.3	1.5241	242.55	244.17	246.2	1.5074	-0.4638	-0.20583	-0.0288	0.1916
1e+12	244.53	246.88	250.08	2.7745	244.39	246.76	249.87	2.6746	-0.2119	-0.1153	0.0963	0.14404
5e+12	242.43	246.37	250.63	3.4961	242.43	246.3	250.57	3.4661	-0.1661	-0.06885	0.0025	0.070532
1e+13	243.21	245.4	246.67	1.5127	243.21	245.32	246.62	1.4702	-0.1666	-0.080675	0.0025	0.072688

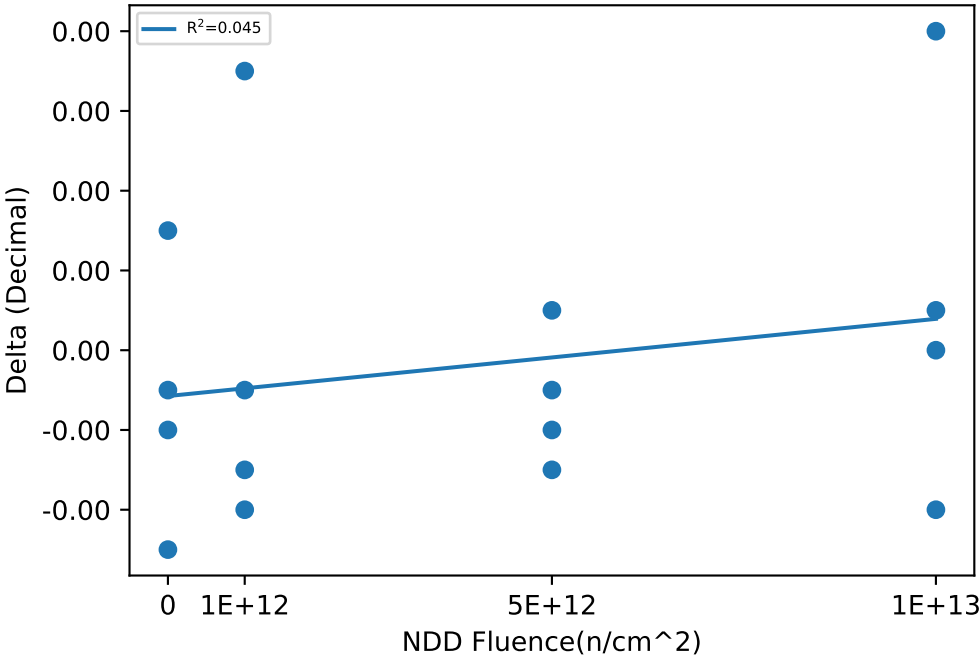
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.9202	0.9209	0.0007
266	1e+12	NDD	0.9081	0.9078	-0.0003
267	1e+12	NDD	0.9173	0.9169	-0.0004
288	1e+12	NDD	0.9145	0.9144	-0.0001
348	5e+12	NDD	0.9132	0.9133	0.0001
353	5e+12	NDD	0.9121	0.912	-0.0001
370	5e+12	NDD	0.9247	0.9244	-0.0003
377	5e+12	NDD	0.9147	0.9145	-0.0002
389	1e+13	NDD	0.9084	0.908	-0.0004
394	1e+13	NDD	0.9135	0.9136	0.0001
395	1e+13	NDD	0.9121	0.9121	0
571	1e+13	NDD	0.9204	0.9212	0.0008
649	0	CORRELATION	0.9255	0.9253	-0.0002
662	0	CORRELATION	0.9167	0.9162	-0.0005
690	0	CORRELATION	0.9168	0.9171	0.0003
708	0	CORRELATION	0.9176	0.9175	-0.0001

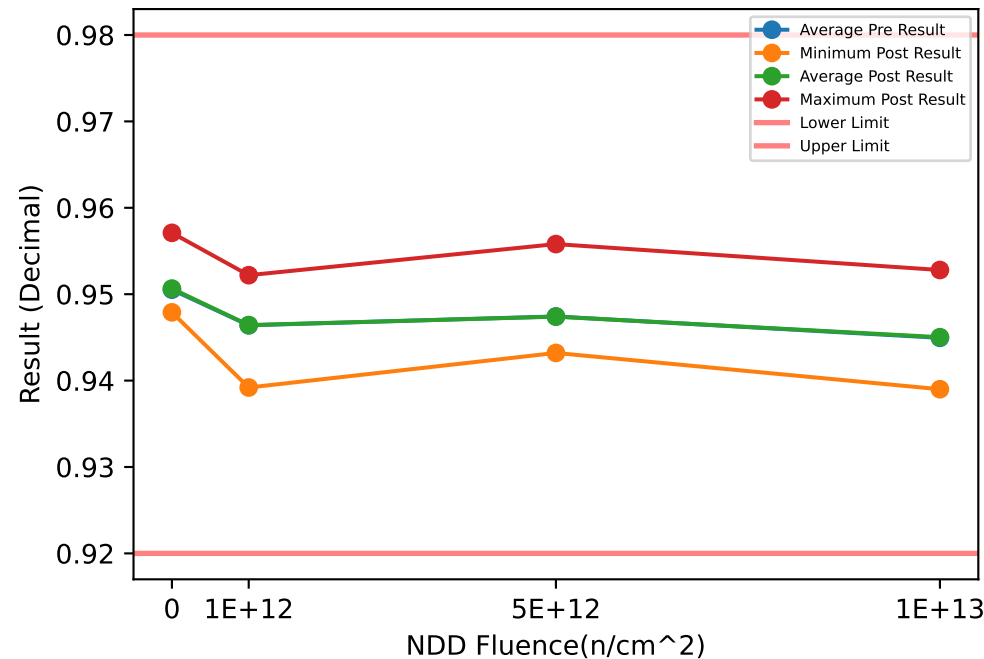
NDD vs Post - Pre Exposure Delta



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	0.9167	0.91915	0.9255	0.0042525	0.9162	0.91902	0.9253	0.0042185	-0.0005	-0.000125	0.0003	0.0003304
1e+12	0.9081	0.91502	0.9202	0.00517	0.9078	0.915	0.9209	0.0054961	-0.0004	-2.5e-05	0.0007	0.00049917
5e+12	0.9121	0.91617	0.9247	0.0057824	0.912	0.91605	0.9244	0.0056595	-0.0003	-0.000125	0.0001	0.00017078
1e+13	0.9084	0.9136	0.9204	0.005018	0.908	0.91373	0.9212	0.0055169	-0.0004	0.000125	0.0008	0.00049917

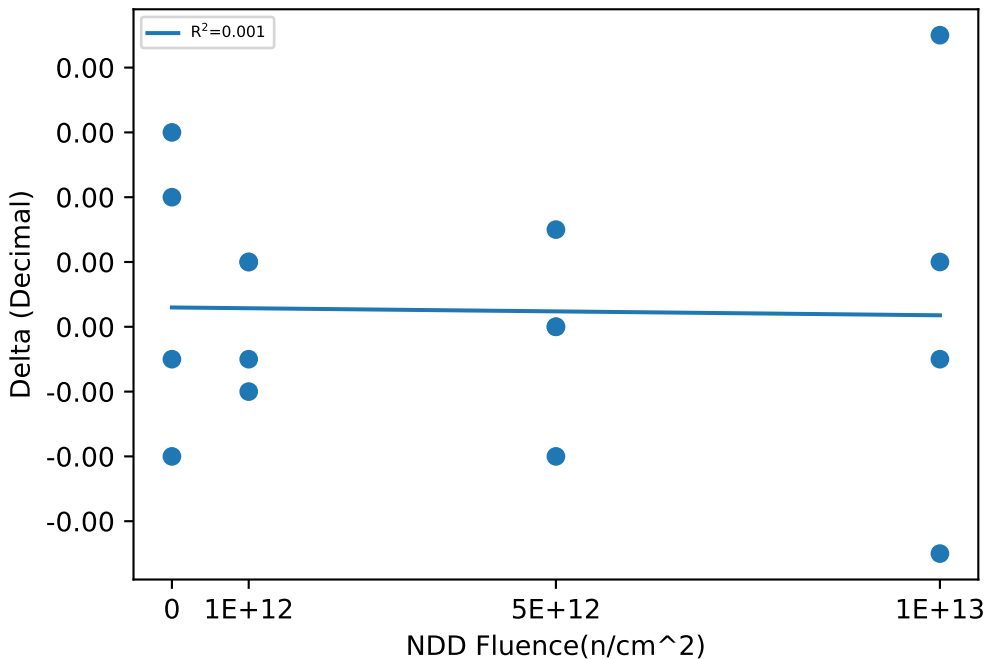
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.952	0.9522	0.0002
266	1e+12	NDD	0.939	0.9392	0.0002
267	1e+12	NDD	0.9488	0.9486	-0.0002
288	1e+12	NDD	0.9458	0.9457	-0.0001
348	5e+12	NDD	0.9445	0.9445	0
353	5e+12	NDD	0.9432	0.9432	0
370	5e+12	NDD	0.9562	0.9558	-0.0004
377	5e+12	NDD	0.9458	0.9461	0.0003
389	1e+13	NDD	0.9397	0.939	-0.0007
394	1e+13	NDD	0.9448	0.945	0.0002
395	1e+13	NDD	0.9434	0.9433	-0.0001
571	1e+13	NDD	0.9519	0.9528	0.0009
649	0	CORRELATION	0.9572	0.9571	-0.0001
662	0	CORRELATION	0.9483	0.9479	-0.0004
690	0	CORRELATION	0.948	0.9486	0.0006
708	0	CORRELATION	0.9486	0.949	0.0004

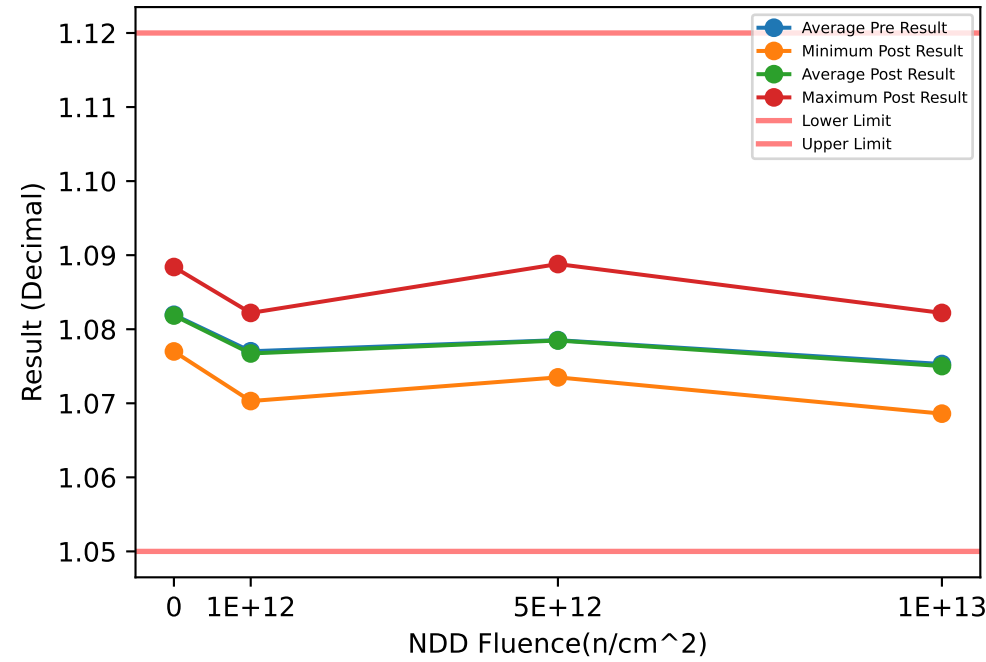
NDD vs Post - Pre Exposure Delta



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	0.948	0.95053	0.9572	0.0044567	0.9479	0.95065	0.9571	0.004324	-0.0004	0.000125	0.0006	0.00045735
1e+12	0.939	0.9464	0.952	0.005545	0.9392	0.94643	0.9522	0.0055017	-0.0002	2.5e-05	0.0002	0.00020616
5e+12	0.9432	0.94742	0.9562	0.0059455	0.9432	0.9474	0.9558	0.0057242	-0.0004	-2.5e-05	0.0003	0.00028723
1e+13	0.9397	0.94495	0.9519	0.0051085	0.939	0.94503	0.9528	0.0057656	-0.0007	7.5e-05	0.0009	0.00066521

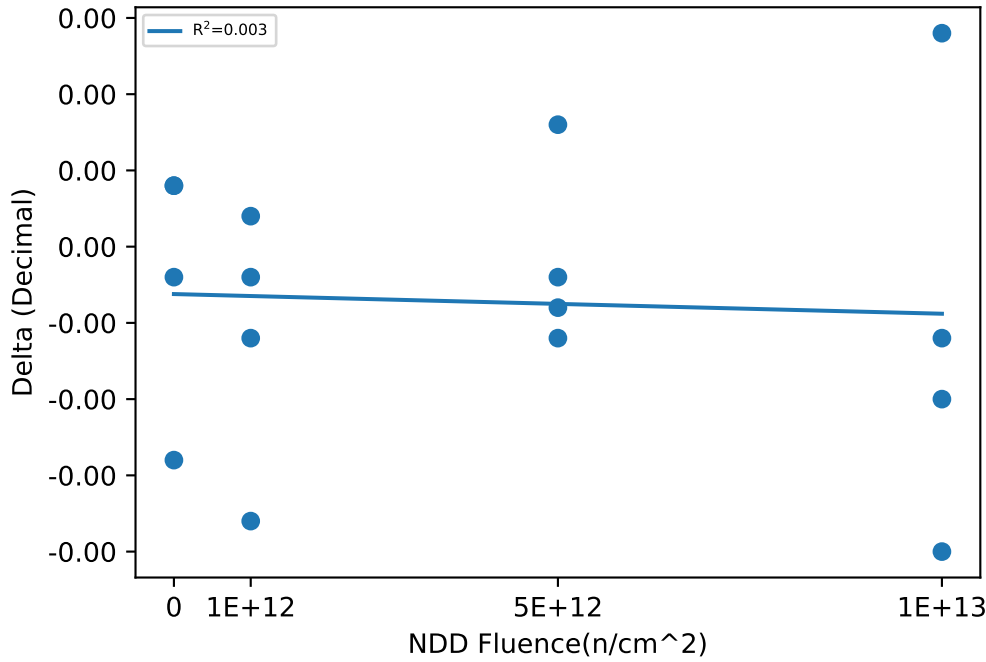
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0821	1.0822	0.0001
266	1e+12	NDD	1.0706	1.0703	-0.0003
267	1e+12	NDD	1.0795	1.0786	-0.0009
288	1e+12	NDD	1.0759	1.0758	-0.0001
348	5e+12	NDD	1.0747	1.0745	-0.0002
353	5e+12	NDD	1.0736	1.0735	-0.0001
370	5e+12	NDD	1.0891	1.0888	-0.0003
377	5e+12	NDD	1.0767	1.0771	0.0004
389	1e+13	NDD	1.0689	1.0686	-0.0003
394	1e+13	NDD	1.0755	1.0745	-0.001
395	1e+13	NDD	1.0753	1.0748	-0.0005
571	1e+13	NDD	1.0815	1.0822	0.0007
649	0	CORRELATION	1.0885	1.0884	-0.0001
662	0	CORRELATION	1.0777	1.077	-0.0007
690	0	CORRELATION	1.0787	1.0789	0.0002
708	0	CORRELATION	1.0829	1.0831	0.0002

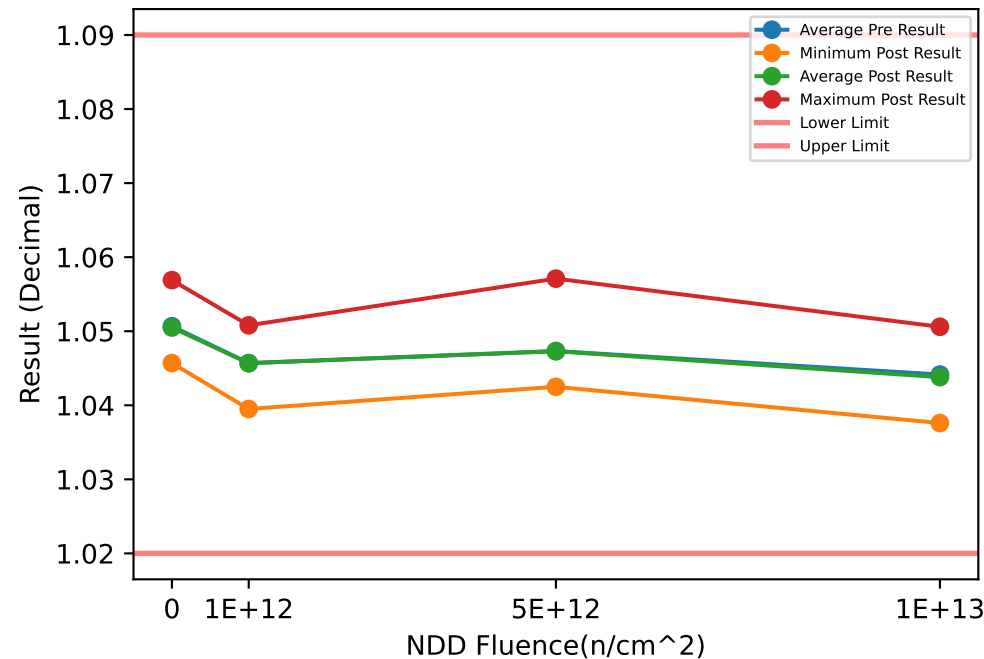
NDD vs Post - Pre Exposure Delta



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	1.0777	1.0819	1.0885	0.0049136	1.077	1.0818	1.0884	0.005056	-0.0007	-0.0001	0.0002	0.00042426
1e+12	1.0706	1.077	1.0821	0.0049809	1.0703	1.0767	1.0822	0.0050209	-0.0009	-0.0003	0.0001	0.00043205
5e+12	1.0736	1.0785	1.0891	0.0071658	1.0735	1.0785	1.0888	0.0070486	-0.0003	-5e-05	0.0004	0.00031091
1e+13	1.0689	1.0753	1.0815	0.0051459	1.0686	1.075	1.0822	0.0055704	-0.001	-0.000275	0.0007	0.00071356

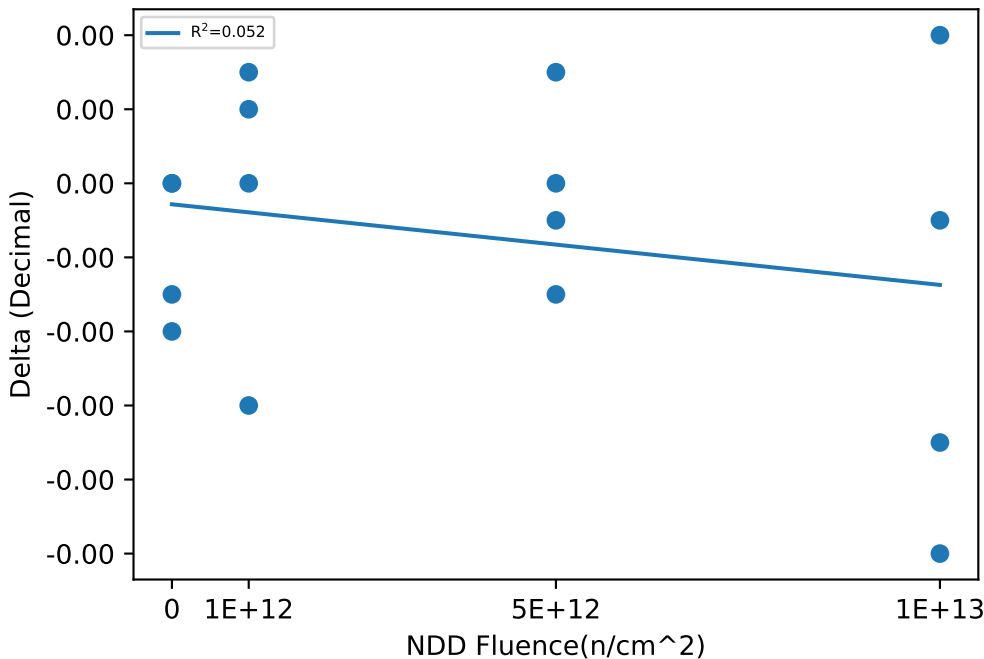
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0505	1.0508	0.0003
266	1e+12	NDD	1.0395	1.0395	0
267	1e+12	NDD	1.0482	1.0476	-0.0006
288	1e+12	NDD	1.0446	1.0448	0.0002
348	5e+12	NDD	1.0438	1.0435	-0.0003
353	5e+12	NDD	1.0425	1.0425	0
370	5e+12	NDD	1.0572	1.0571	-0.0001
377	5e+12	NDD	1.0458	1.0461	0.0003
389	1e+13	NDD	1.0377	1.0376	-0.0001
394	1e+13	NDD	1.0443	1.0433	-0.001
395	1e+13	NDD	1.0444	1.0437	-0.0007
571	1e+13	NDD	1.0502	1.0506	0.0004
649	0	CORRELATION	1.0572	1.0569	-0.0003
662	0	CORRELATION	1.0461	1.0457	-0.0004
690	0	CORRELATION	1.0476	1.0476	0
708	0	CORRELATION	1.0518	1.0518	0

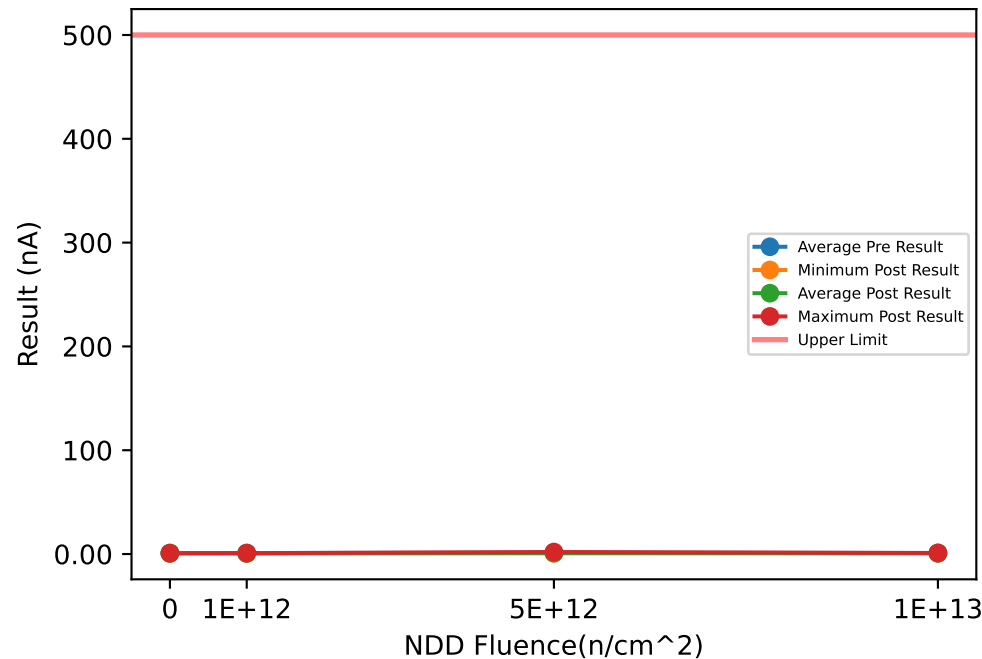
NDD vs Post - Pre Exposure Delta



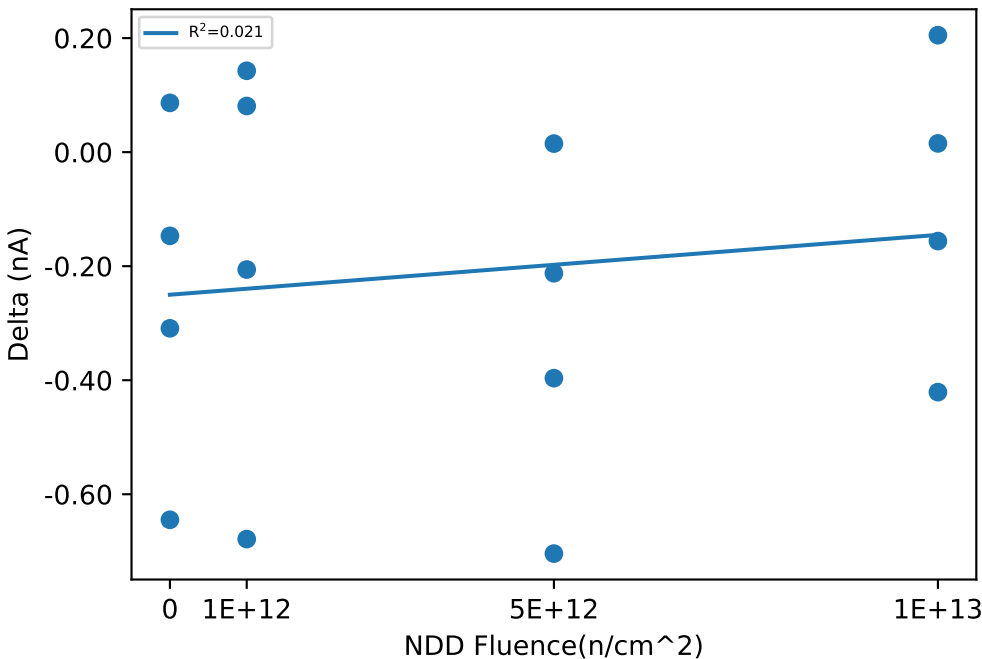
Test Statistics (Decimal)

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	1.0461	1.0507	1.0572	0.0049742	1.0457	1.0505	1.0569	0.0049699	-0.0004	-0.000175	0	0.00020616
1e+12	1.0395	1.0457	1.0505	0.0047937	1.0395	1.0457	1.0508	0.0047912	-0.0006	-2.5e-05	0.0003	0.00040311
5e+12	1.0425	1.0473	1.0572	0.0067218	1.0425	1.0473	1.0571	0.0067072	-0.0003	-2.5e-05	0.0003	0.00025
1e+13	1.0377	1.0442	1.0502	0.0051085	1.0376	1.0438	1.0506	0.005321	-0.001	-0.00035	0.0004	0.0006245

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



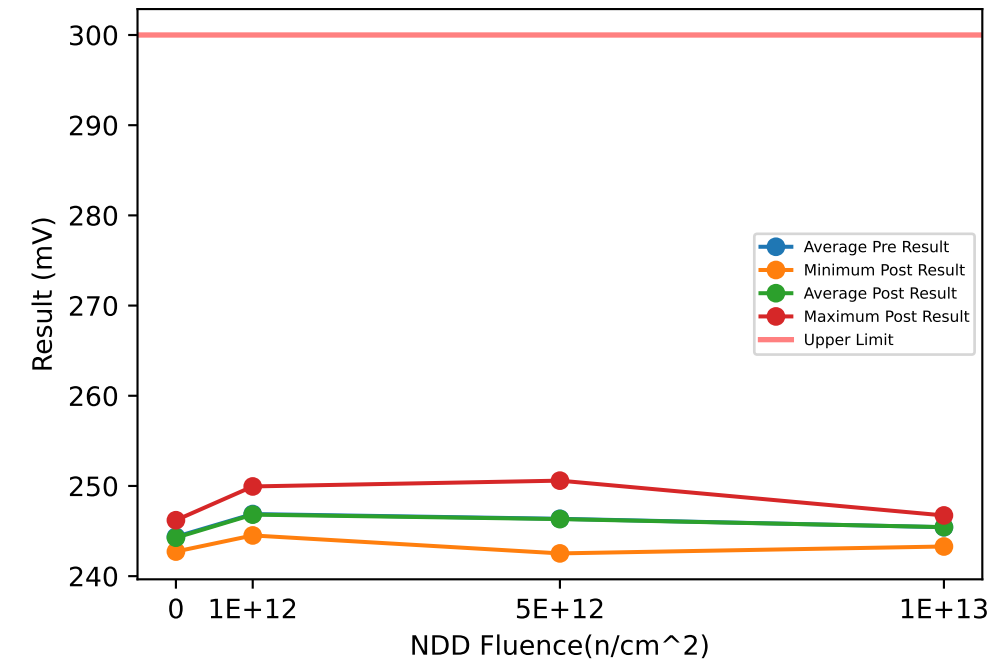
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2963	0.6177	-0.6786
266	1e+12	NDD	0.7725	0.8534	0.0809
267	1e+12	NDD	0.7293	0.872	0.1427
288	1e+12	NDD	0.9686	0.7627	-0.2059
348	5e+12	NDD	1.4649	0.7608	-0.7041
353	5e+12	NDD	0.9597	0.7473	-0.2124
370	5e+12	NDD	1.9309	1.9459	0.015
377	5e+12	NDD	1.0498	0.6534	-0.3964
389	1e+13	NDD	1.4461	1.0252	-0.4209
394	1e+13	NDD	0.6882	0.7035	0.0153
395	1e+13	NDD	0.7075	0.9126	0.2051
571	1e+13	NDD	0.9936	0.8376	-0.156
649	0	CORRELATION	0.9253	0.7785	-0.1468
662	0	CORRELATION	0.6763	0.7627	0.0864
690	0	CORRELATION	1.0186	0.7096	-0.309
708	0	CORRELATION	1.3931	0.7483	-0.6448

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	0.6763	1.0033	1.3931	0.29732	0.7096	0.74977	0.7785	0.029487	-0.6448	-0.25355	0.0864	0.3072
1e+12	0.7293	0.94168	1.2963	0.25833	0.6177	0.77645	0.872	0.11611	-0.6786	-0.16522	0.1427	0.37443
5e+12	0.9597	1.3513	1.9309	0.44463	0.6534	1.0269	1.9459	0.61456	-0.7041	-0.32448	0.015	0.30391
1e+13	0.6882	0.95885	1.4461	0.35358	0.7035	0.86972	1.0252	0.135	-0.4209	-0.089125	0.2051	0.26584

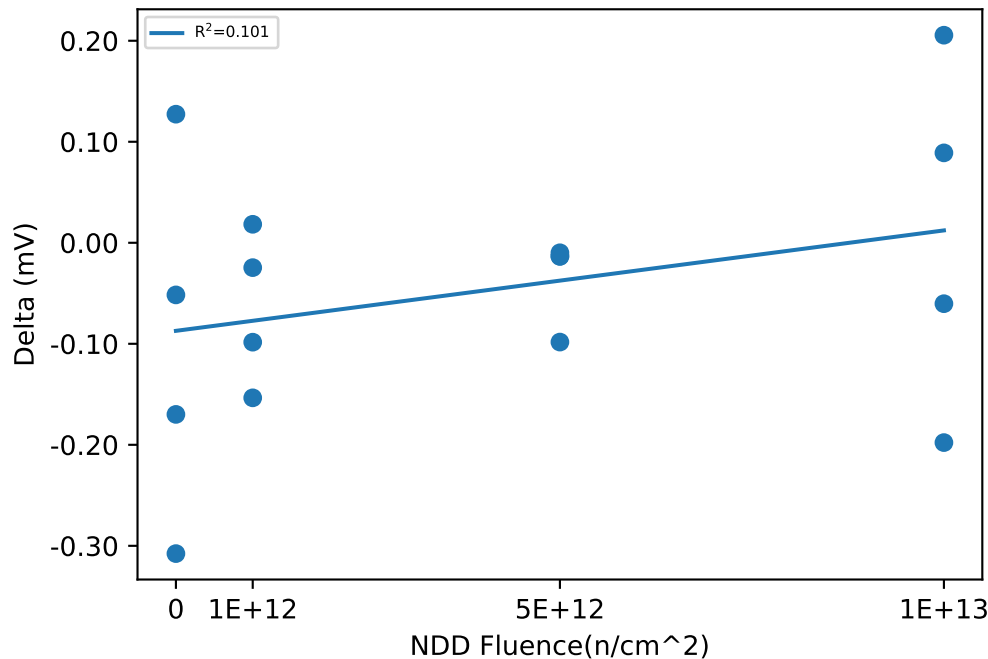
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	248.32	248.16	-0.1535
266	1e+12	NDD	249.97	249.95	-0.0246
267	1e+12	NDD	244.64	244.66	0.0183
288	1e+12	NDD	244.61	244.51	-0.0984
348	5e+12	NDD	244.95	244.93	-0.0135
353	5e+12	NDD	247.27	247.26	-0.0099
370	5e+12	NDD	242.54	242.52	-0.0132
377	5e+12	NDD	250.69	250.59	-0.0983
389	1e+13	NDD	245.9	245.84	-0.0603
394	1e+13	NDD	246.08	245.89	-0.1978
395	1e+13	NDD	243.08	243.29	0.2055
571	1e+13	NDD	246.64	246.73	0.089
649	0	CORRELATION	244.46	244.15	-0.3077
662	0	CORRELATION	242.6	242.73	0.1273
690	0	CORRELATION	246.25	246.2	-0.0516
708	0	CORRELATION	244.15	243.98	-0.1699

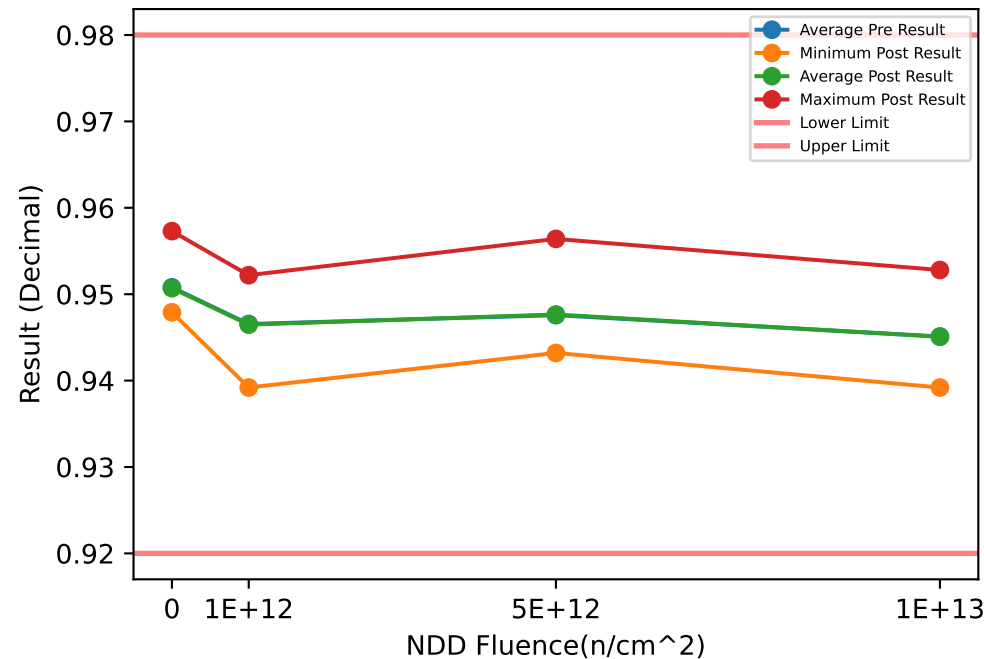
NDD vs Post - Pre Exposure Delta



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	242.6	244.37	246.25	1.4987	242.73	244.26	246.2	1.4388	-0.3077	-0.10048	0.1273	0.18442
1e+12	244.61	246.89	249.97	2.6933	244.51	246.82	249.95	2.6804	-0.1535	-0.06455	0.0183	0.076416
5e+12	242.54	246.36	250.69	3.4728	242.52	246.33	250.59	3.4378	-0.0983	-0.033725	-0.0099	0.043081
1e+13	243.08	245.43	246.64	1.5946	243.29	245.44	246.73	1.4896	-0.1978	0.0091	0.2055	0.17567

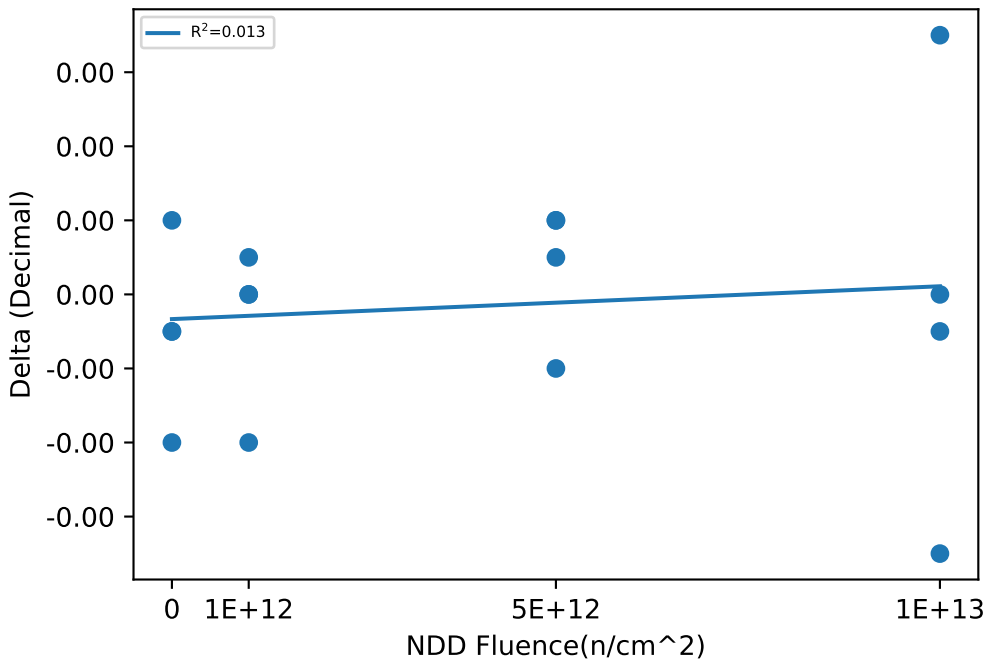
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.9522	0.9522	0
266	1e+12	NDD	0.9392	0.9392	0
267	1e+12	NDD	0.949	0.9486	-0.0004
288	1e+12	NDD	0.9458	0.9459	0.0001
348	5e+12	NDD	0.9447	0.9449	0.0002
353	5e+12	NDD	0.9434	0.9432	-0.0002
370	5e+12	NDD	0.9562	0.9564	0.0002
377	5e+12	NDD	0.946	0.9461	0.0001
389	1e+13	NDD	0.9399	0.9392	-0.0007
394	1e+13	NDD	0.945	0.945	0
395	1e+13	NDD	0.9434	0.9433	-0.0001
571	1e+13	NDD	0.9521	0.9528	0.0007
649	0	CORRELATION	0.9574	0.9573	-0.0001
662	0	CORRELATION	0.9483	0.9479	-0.0004
690	0	CORRELATION	0.9484	0.9486	0.0002
708	0	CORRELATION	0.9491	0.949	-0.0001

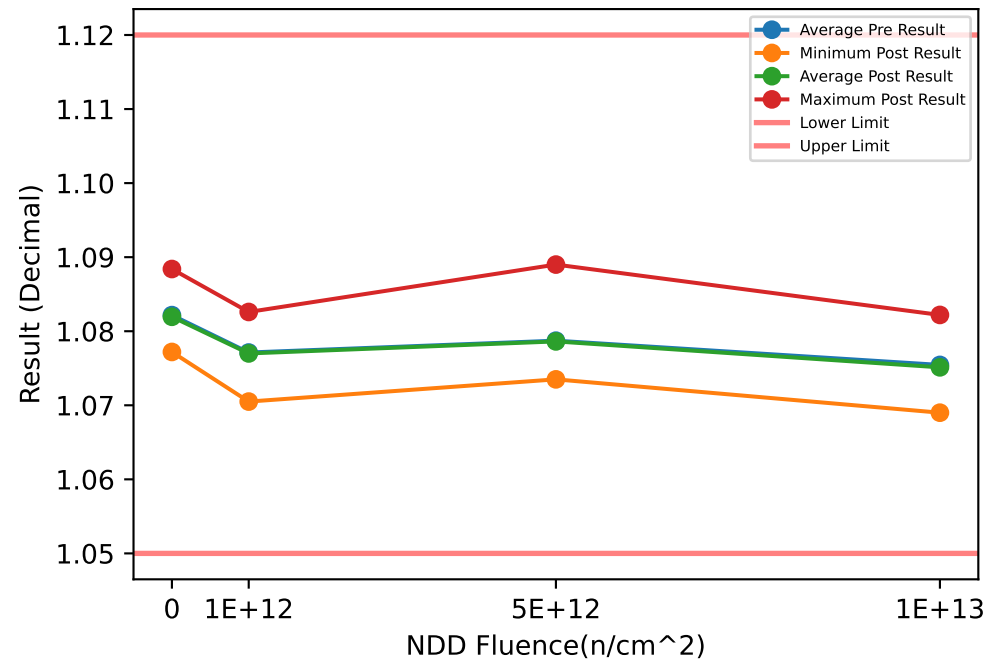
NDD vs Post - Pre Exposure Delta



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	0.9483	0.9508	0.9574	0.0044144	0.9479	0.9507	0.9573	0.0044234	-0.0004	-0.0001	0.0002	0.00024495
1e+12	0.9392	0.94655	0.9522	0.0055531	0.9392	0.94647	0.9522	0.0054939	-0.0004	-7.5e-05	0.0001	0.00022174
5e+12	0.9434	0.94758	0.9562	0.0058472	0.9432	0.94765	0.9564	0.0059534	-0.0002	7.5e-05	0.0002	0.0001893
1e+13	0.9399	0.9451	0.9521	0.0051297	0.9392	0.94507	0.9528	0.0056964	-0.0007	-2.5e-05	0.0007	0.00057373

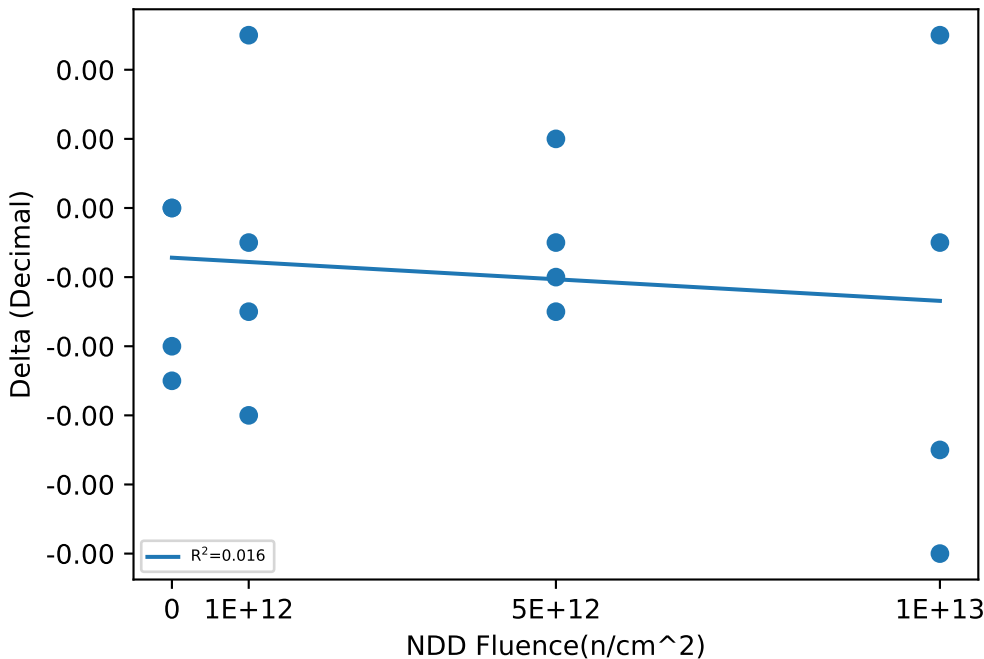
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0821	1.0826	0.0005
266	1e+12	NDD	1.0708	1.0705	-0.0003
267	1e+12	NDD	1.0795	1.0789	-0.0006
288	1e+12	NDD	1.0761	1.076	-0.0001
348	5e+12	NDD	1.0749	1.0747	-0.0002
353	5e+12	NDD	1.0736	1.0735	-0.0001
370	5e+12	NDD	1.0893	1.089	-0.0003
377	5e+12	NDD	1.0771	1.0773	0.0002
389	1e+13	NDD	1.0691	1.069	-0.0001
394	1e+13	NDD	1.0755	1.0745	-0.001
395	1e+13	NDD	1.0755	1.0748	-0.0007
571	1e+13	NDD	1.0817	1.0822	0.0005
649	0	CORRELATION	1.0888	1.0884	-0.0004
662	0	CORRELATION	1.0777	1.0772	-0.0005
690	0	CORRELATION	1.0789	1.0789	0
708	0	CORRELATION	1.0833	1.0833	0

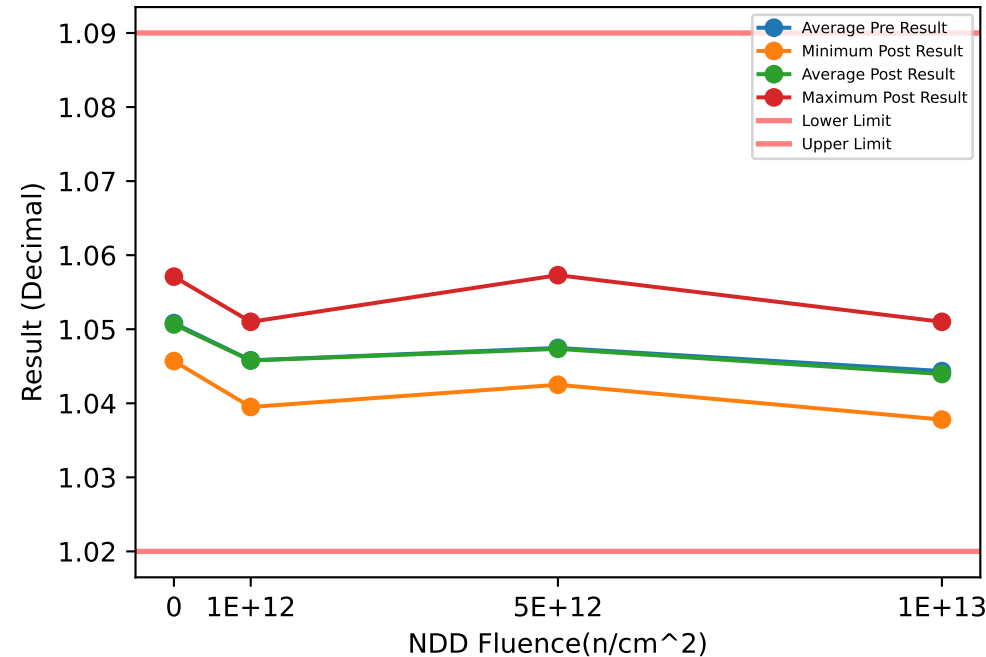
NDD vs Post - Pre Exposure Delta



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	1.0777	1.0822	1.0888	0.0050302	1.0772	1.0819	1.0884	0.0050097	-0.0005	-0.000225	0	0.000263
1e+12	1.0708	1.0771	1.0821	0.0048801	1.0705	1.077	1.0826	0.0051062	-0.0006	-0.000125	0.0005	0.00046458
5e+12	1.0736	1.0787	1.0893	0.0071965	1.0735	1.0786	1.089	0.0070962	-0.0003	-0.0001	0.0002	0.00021602
1e+13	1.0691	1.0755	1.0817	0.0051443	1.069	1.0751	1.0822	0.0054181	-0.001	-0.000325	0.0005	0.00066521

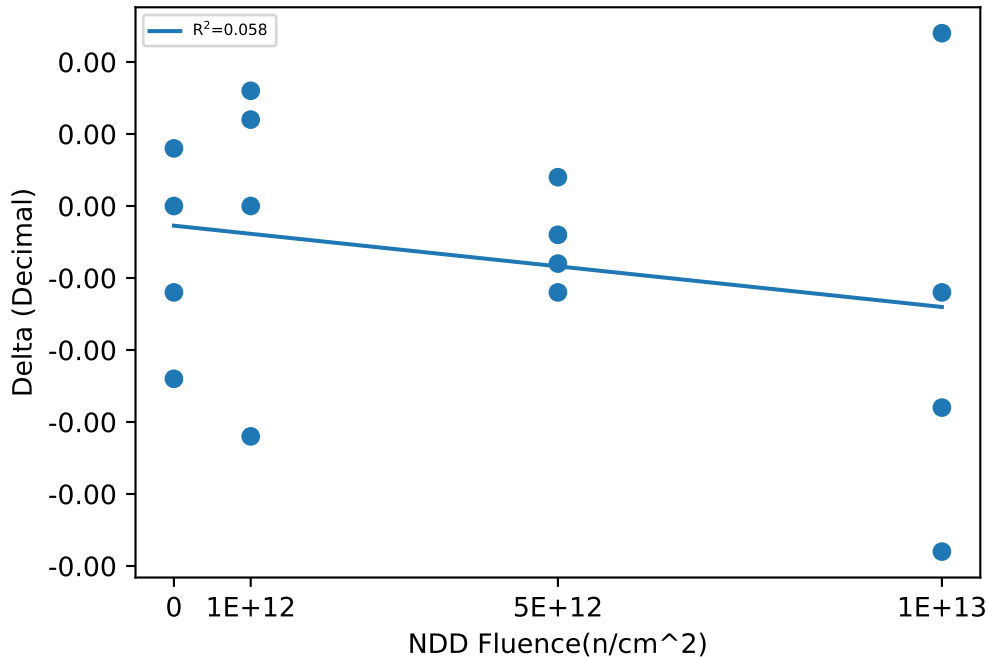
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.0507	1.051	0.0003
266	1e+12	NDD	1.0395	1.0395	0
267	1e+12	NDD	1.0484	1.0476	-0.0008
288	1e+12	NDD	1.0446	1.045	0.0004
348	5e+12	NDD	1.0438	1.0435	-0.0003
353	5e+12	NDD	1.0427	1.0425	-0.0002
370	5e+12	NDD	1.0574	1.0573	-0.0001
377	5e+12	NDD	1.046	1.0461	0.0001
389	1e+13	NDD	1.0381	1.0378	-0.0003
394	1e+13	NDD	1.0445	1.0433	-0.0012
395	1e+13	NDD	1.0444	1.0437	-0.0007
571	1e+13	NDD	1.0504	1.051	0.0006
649	0	CORRELATION	1.0574	1.0571	-0.0003
662	0	CORRELATION	1.0463	1.0457	-0.0006
690	0	CORRELATION	1.0476	1.0478	0.0002
708	0	CORRELATION	1.052	1.052	0

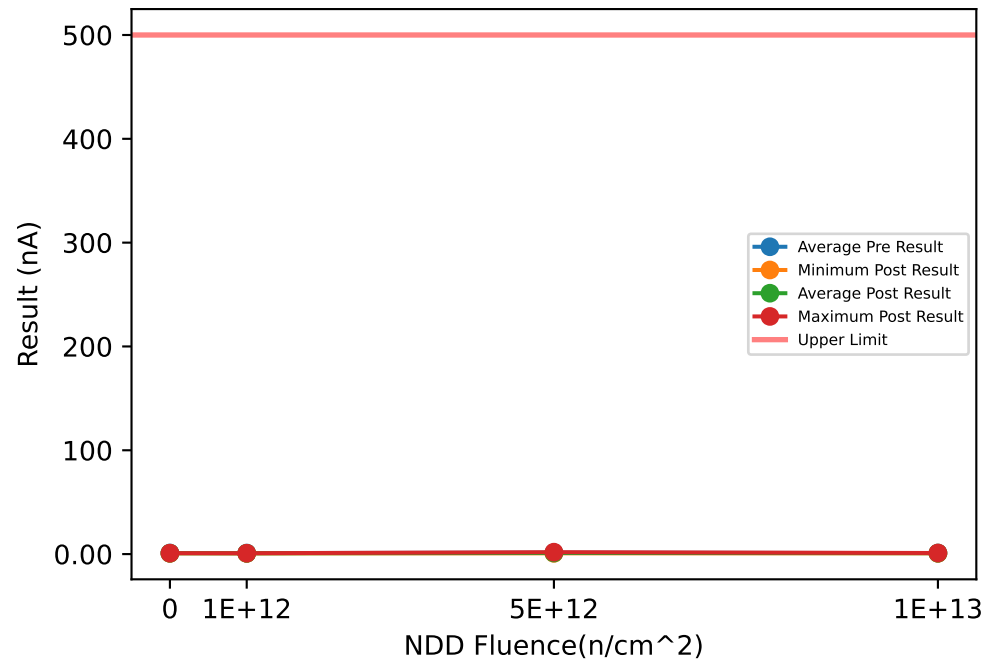
NDD vs Post - Pre Exposure Delta



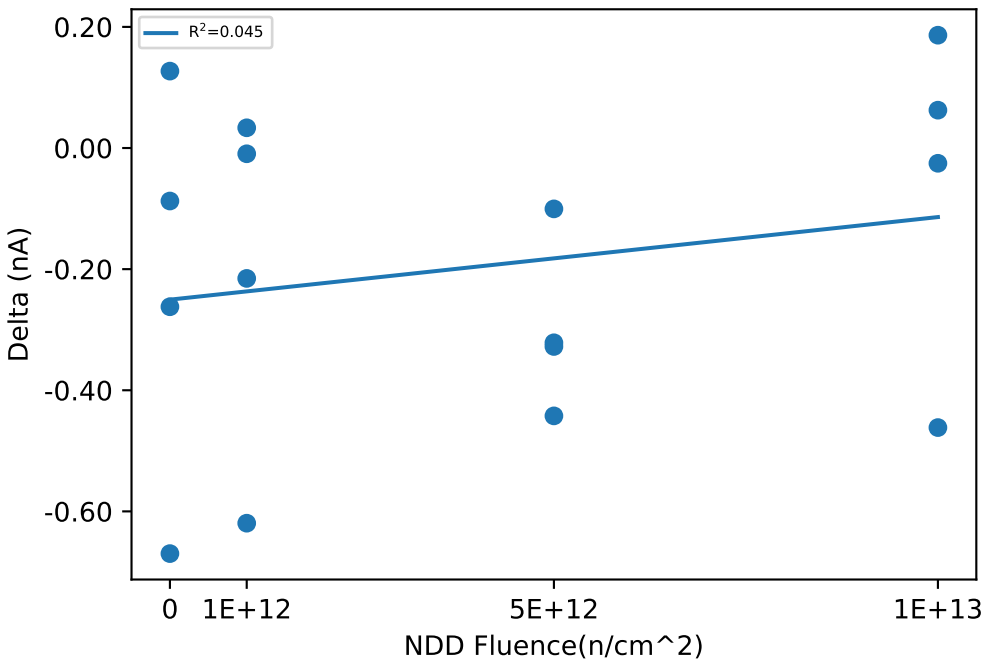
Test Statistics (Decimal)

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	1.0463	1.0508	1.0574	0.0050162	1.0457	1.0507	1.0571	0.0050349	-0.0006	-0.000175	0.0002	0.00035
1e+12	1.0395	1.0458	1.0507	0.0048956	1.0395	1.0458	1.051	0.0048514	-0.0008	-2.5e-05	0.0004	0.00054391
5e+12	1.0427	1.0475	1.0574	0.0067574	1.0425	1.0474	1.0573	0.0068047	-0.0003	-0.000125	0.0001	0.00017078
1e+13	1.0381	1.0444	1.0504	0.0050229	1.0378	1.0439	1.051	0.0054163	-0.0012	-0.0004	0.0006	0.00076158

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 500.0 (nA))

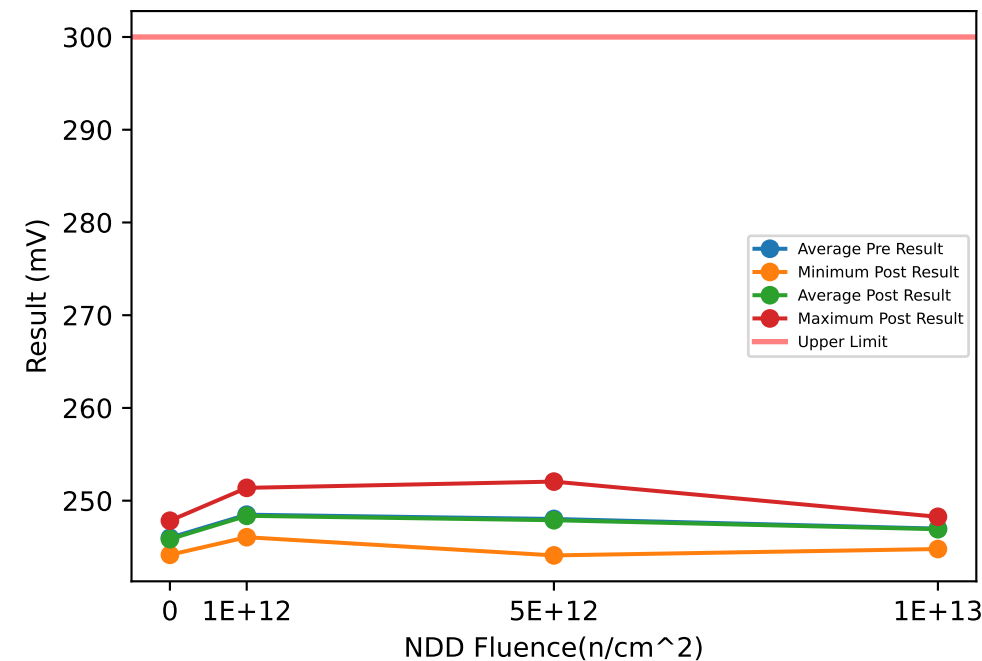
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.2869	0.6674	-0.6195
266	1e+12	NDD	0.8505	0.841	-0.0095
267	1e+12	NDD	0.7949	0.8283	0.0334
288	1e+12	NDD	0.9749	0.7596	-0.2153
348	5e+12	NDD	1.315	0.8727	-0.4423
353	5e+12	NDD	1.0626	0.741	-0.3216
370	5e+12	NDD	1.9527	1.8522	-0.1005
377	5e+12	NDD	1.0529	0.7252	-0.3277
389	1e+13	NDD	1.5179	1.0563	-0.4616
394	1e+13	NDD	0.7381	0.7129	-0.0252
395	1e+13	NDD	0.7356	0.9219	0.1863
571	1e+13	NDD	0.8625	0.925	0.0625
649	0	CORRELATION	0.9784	0.8909	-0.0875
662	0	CORRELATION	0.6763	0.8033	0.127
690	0	CORRELATION	1.0623	0.8002	-0.2621
708	0	CORRELATION	1.418	0.7483	-0.6697

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	0.6763	1.0337	1.418	0.30512	0.7483	0.81068	0.8909	0.059135	-0.6697	-0.22307	0.127	0.3376
1e+12	0.7949	0.9768	1.2869	0.22	0.6674	0.77408	0.841	0.0796	-0.6195	-0.20272	0.0334	0.2983
5e+12	1.0529	1.3458	1.9527	0.4224	0.7252	1.0478	1.8522	0.54034	-0.4423	-0.29802	-0.1005	0.14291
1e+13	0.7356	0.96352	1.5179	0.3743	0.7129	0.90403	1.0563	0.14198	-0.4616	-0.0595	0.1863	0.28176

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

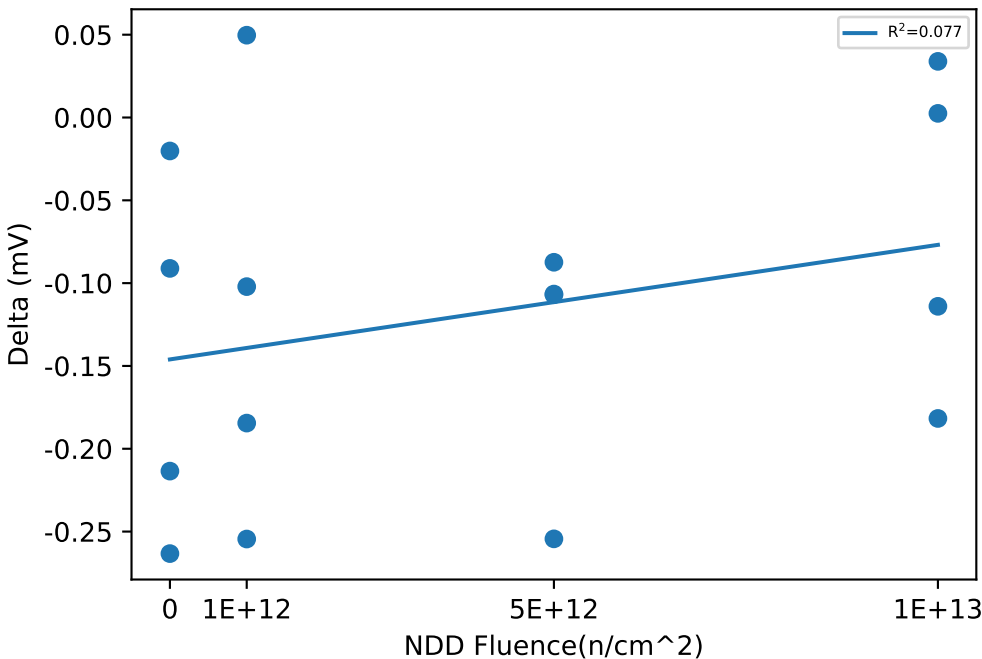
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	249.9	249.71	-0.1845
266	1e+12	NDD	251.48	251.38	-0.1021
267	1e+12	NDD	246.27	246.32	0.0497
288	1e+12	NDD	246.31	246.06	-0.2545
348	5e+12	NDD	246.69	246.59	-0.107
353	5e+12	NDD	248.91	248.82	-0.0874
370	5e+12	NDD	244.21	244.1	-0.1066
377	5e+12	NDD	252.31	252.06	-0.2544
389	1e+13	NDD	247.37	247.37	0.0025
394	1e+13	NDD	247.46	247.28	-0.1817
395	1e+13	NDD	244.75	244.79	0.0339
571	1e+13	NDD	248.38	248.26	-0.114
649	0	CORRELATION	245.91	245.7	-0.2135
662	0	CORRELATION	244.25	244.16	-0.0911
690	0	CORRELATION	247.86	247.84	-0.0202
708	0	CORRELATION	245.98	245.71	-0.2633

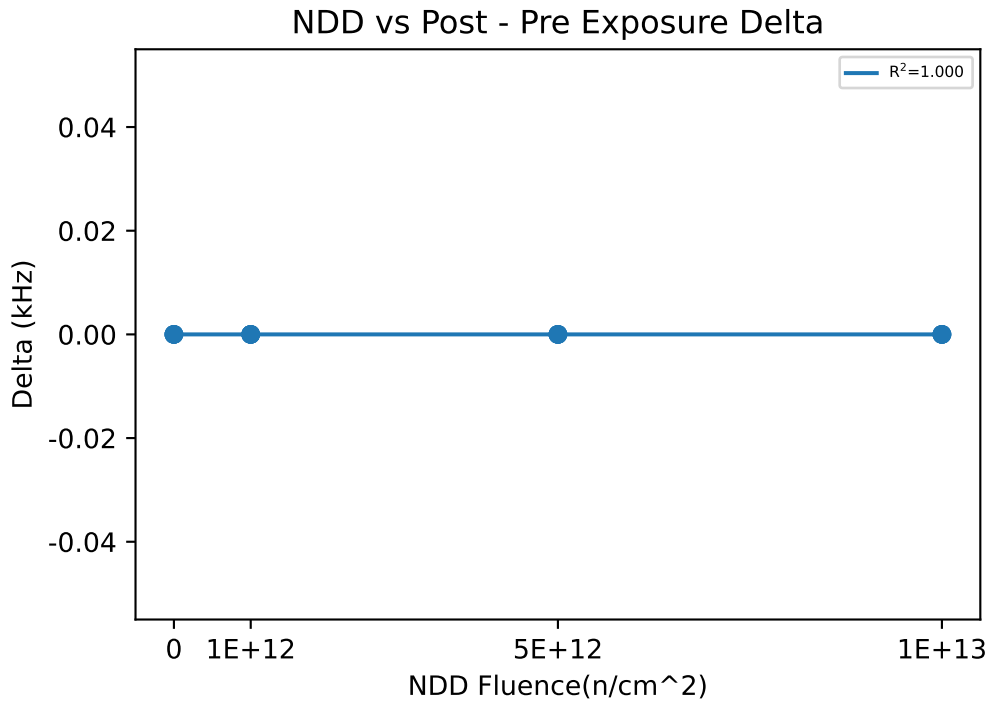
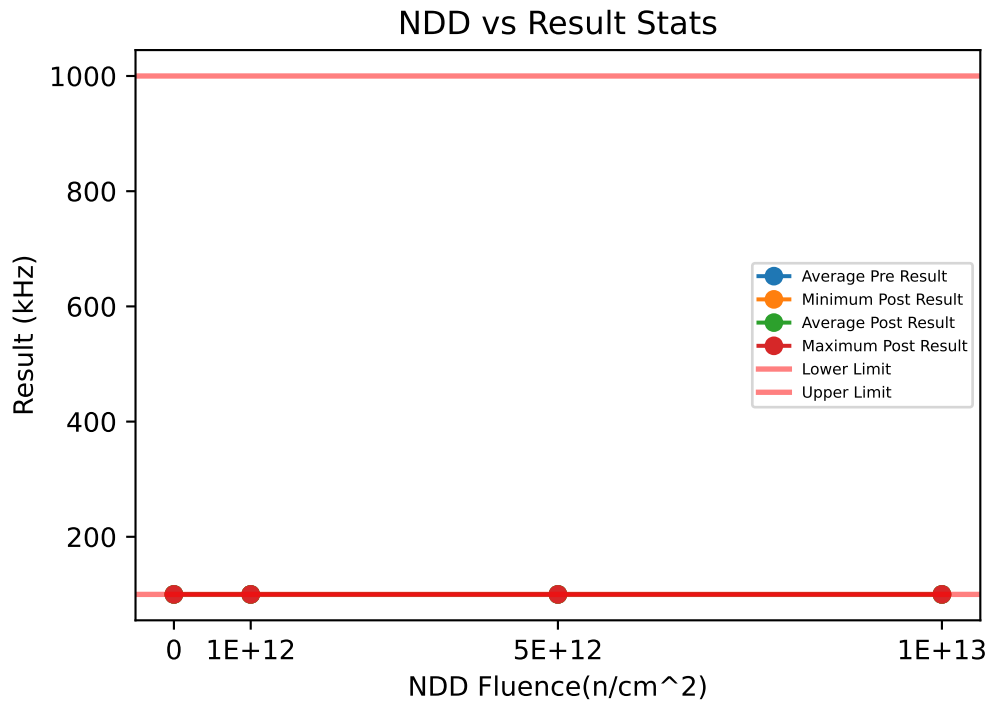
NDD vs Post - Pre Exposure Delta



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	244.25	246	247.86	1.4744	244.16	245.85	247.84	1.5114	-0.2633	-0.14703	-0.0202	0.11128
1e+12	246.27	248.49	251.48	2.6214	246.06	248.37	251.38	2.6092	-0.2545	-0.12285	0.0497	0.13081
5e+12	244.21	248.03	252.31	3.4403	244.1	247.89	252.06	3.3811	-0.2544	-0.13885	-0.0874	0.077574
1e+13	244.75	246.99	248.38	1.5583	244.79	246.92	248.26	1.4921	-0.1817	-0.064825	0.0339	0.10059

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



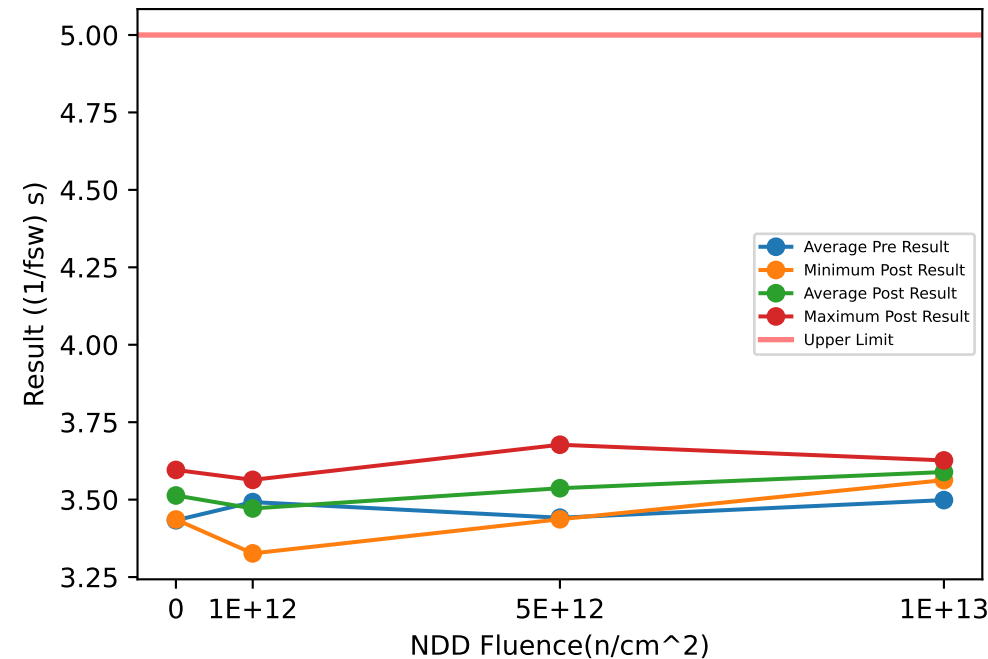
Test Results (Lower Limit = 100.0,
Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	100	100	0
266	1e+12	NDD	100	100	0
267	1e+12	NDD	100	100	0
288	1e+12	NDD	100	100	0
348	5e+12	NDD	100	100	0
353	5e+12	NDD	100	100	0
370	5e+12	NDD	100	100	0
377	5e+12	NDD	100	100	0
389	1e+13	NDD	100	100	0
394	1e+13	NDD	100	100	0
395	1e+13	NDD	100	100	0
571	1e+13	NDD	100	100	0
649	0	CORRELATION	100	100	0
662	0	CORRELATION	100	100	0
690	0	CORRELATION	100	100	0
708	0	CORRELATION	100	100	0

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

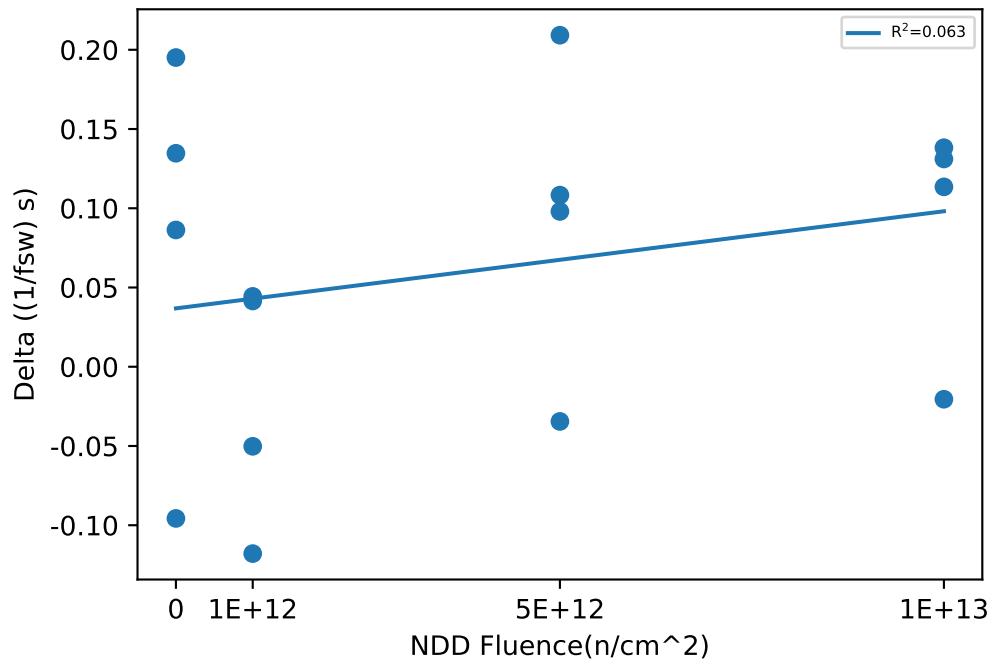
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.5137	3.4635	-0.0502
266	1e+12	NDD	3.5223	3.5638	0.0415
267	1e+12	NDD	3.4443	3.3264	-0.1179
288	1e+12	NDD	3.4878	3.5322	0.0444
348	5e+12	NDD	3.4711	3.4366	-0.0345
353	5e+12	NDD	3.3386	3.5478	0.2092
370	5e+12	NDD	3.5792	3.6772	0.098
377	5e+12	NDD	3.3773	3.4856	0.1083
389	1e+13	NDD	3.4884	3.6266	0.1382
394	1e+13	NDD	3.4319	3.563	0.1311
395	1e+13	NDD	3.5966	3.5761	-0.0205
571	1e+13	NDD	3.477	3.5905	0.1135
649	0	CORRELATION	3.3875	3.5826	0.1951
662	0	CORRELATION	3.4611	3.5958	0.1347
690	0	CORRELATION	3.3531	3.4394	0.0863
708	0	CORRELATION	3.5315	3.4358	-0.0957

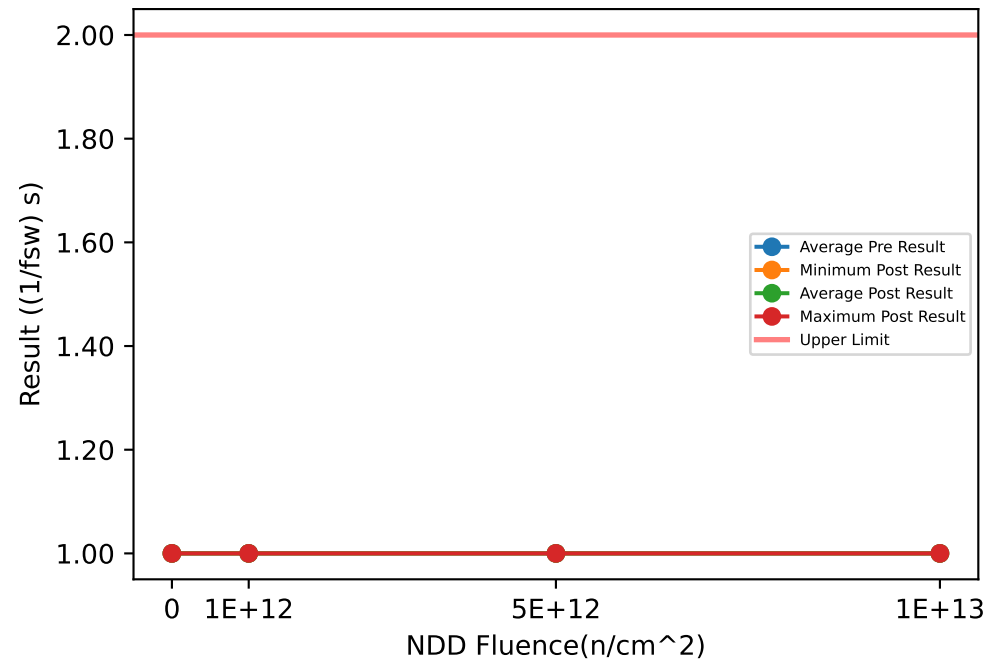
NDD vs Post - Pre Exposure Delta



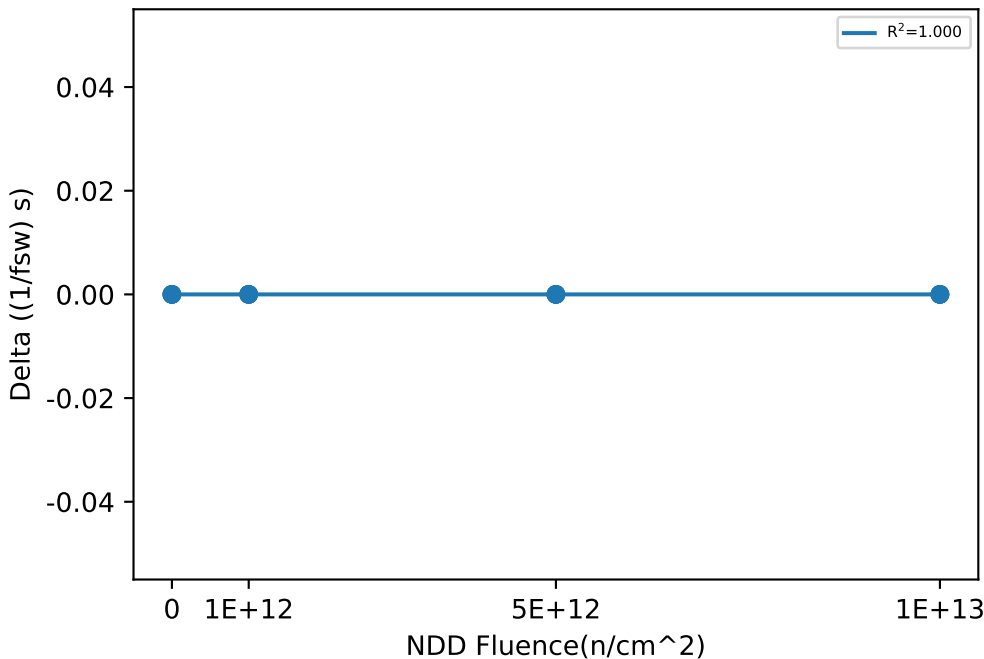
Test Statistics ((1/fsw) s)

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	3.3531	3.4333	3.5315	0.079469	3.4358	3.5134	3.5958	0.087704	-0.0957	0.0801	0.1951	0.12537
1e+12	3.4443	3.492	3.5223	0.035033	3.3264	3.4715	3.5638	0.10539	-0.1179	-0.02055	0.0444	0.078368
5e+12	3.3386	3.4415	3.5792	0.10731	3.4366	3.5368	3.6772	0.10407	-0.0345	0.09525	0.2092	0.099996
1e+13	3.4319	3.4985	3.5966	0.069817	3.563	3.589	3.6266	0.027437	-0.0205	0.090575	0.1382	0.074774

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

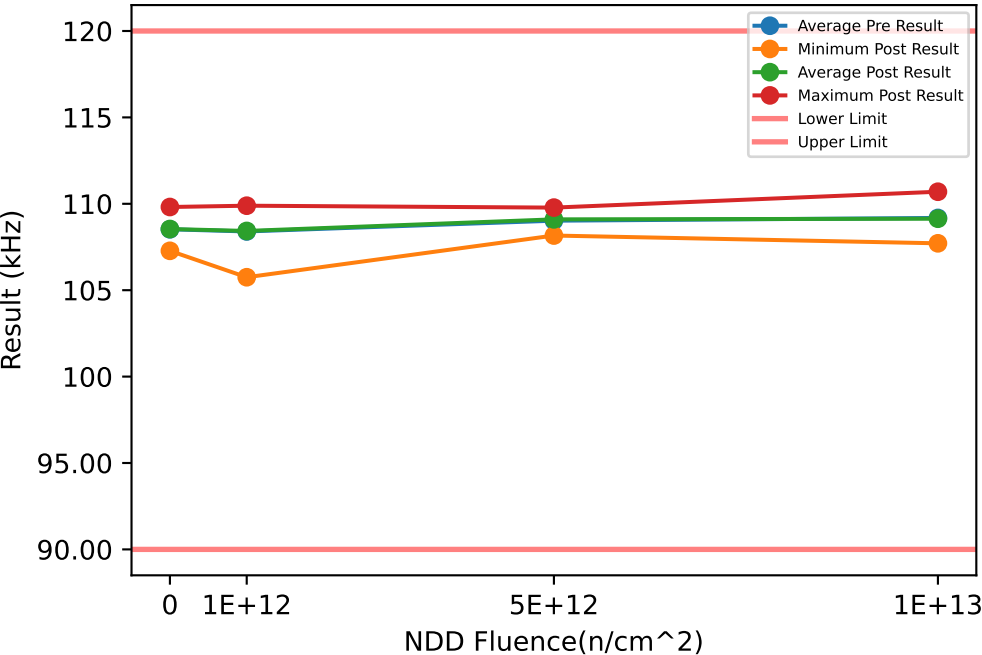
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1	1	0
266	1e+12	NDD	1	1	0
267	1e+12	NDD	1	1	0
288	1e+12	NDD	1	1	0
348	5e+12	NDD	1	1	0
353	5e+12	NDD	1	1	0
370	5e+12	NDD	1	1	0
377	5e+12	NDD	1	1	0
389	1e+13	NDD	1	1	0
394	1e+13	NDD	1	1	0
395	1e+13	NDD	1	1	0
571	1e+13	NDD	1	1	0
649	0	CORRELATION	1	1	0
662	0	CORRELATION	1	1	0
690	0	CORRELATION	1	1	0
708	0	CORRELATION	1	1	0

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

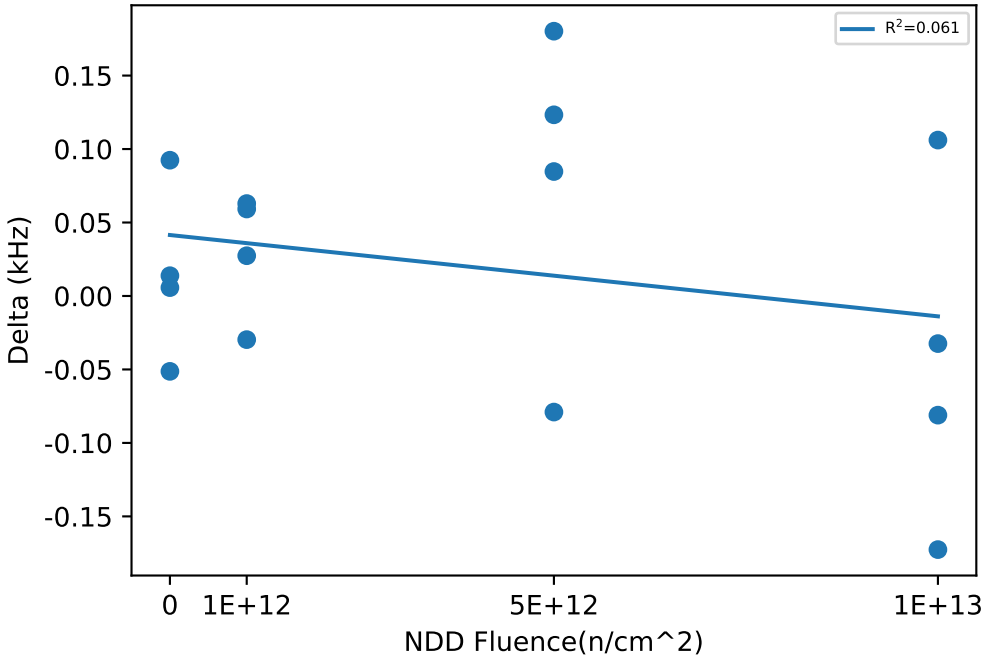
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	109.83	109.89	0.0629
266	1e+12	NDD	108.35	108.41	0.0592
267	1e+12	NDD	109.64	109.66	0.0274
288	1e+12	NDD	105.78	105.75	-0.0297
348	5e+12	NDD	109.86	109.78	-0.079
353	5e+12	NDD	109.05	109.23	0.1802
370	5e+12	NDD	108.08	108.16	0.0847
377	5e+12	NDD	109.1	109.22	0.1233
389	1e+13	NDD	108.83	108.75	-0.0811
394	1e+13	NDD	110.73	110.7	-0.0324
395	1e+13	NDD	109.56	109.39	-0.1726
571	1e+13	NDD	107.61	107.71	0.1061
649	0	CORRELATION	109.72	109.81	0.0924
662	0	CORRELATION	108.06	108.07	0.0057
690	0	CORRELATION	107.33	107.28	-0.0513
708	0	CORRELATION	108.98	109	0.0138

NDD vs Post - Pre Exposure Delta

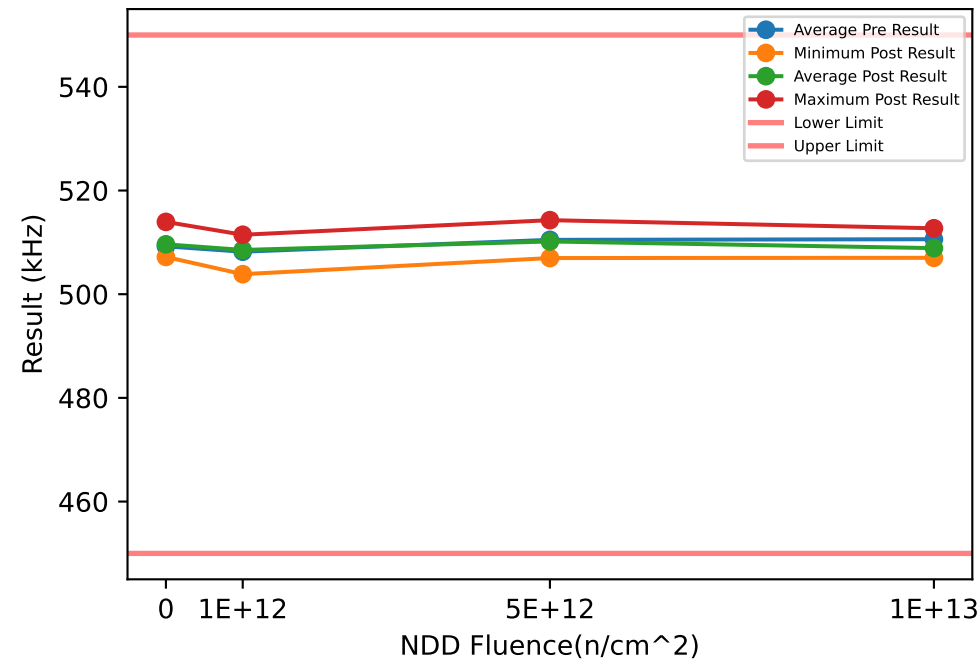


Test Statistics (kHz)

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	107.33	108.52	109.72	1.0466	107.28	108.54	109.81	1.1027	-0.0513	0.01515	0.0924	0.059088
1e+12	105.78	108.4	109.83	1.8647	105.75	108.43	109.89	1.9004	-0.0297	0.02995	0.0629	0.04284
5e+12	108.08	109.02	109.86	0.72961	108.16	109.1	109.78	0.67634	-0.079	0.0773	0.1802	0.11134
1e+13	107.61	109.18	110.73	1.3094	107.71	109.14	110.7	1.2486	-0.1726	-0.045	0.1061	0.1163

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

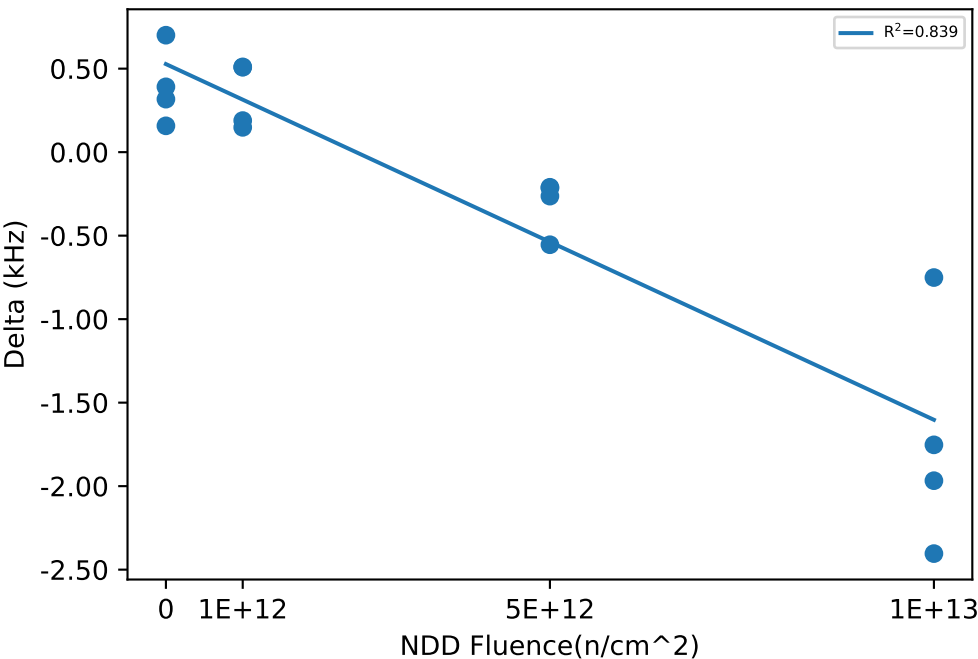
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	510.95	511.46	0.5103
266	1e+12	NDD	508.01	508.51	0.5086
267	1e+12	NDD	510.12	510.31	0.1891
288	1e+12	NDD	503.71	503.86	0.1485
348	5e+12	NDD	514.49	514.28	-0.2103
353	5e+12	NDD	510.31	510.09	-0.2142
370	5e+12	NDD	507.24	506.98	-0.2634
377	5e+12	NDD	509.9	509.35	-0.5544
389	1e+13	NDD	510.16	508.19	-1.9673
394	1e+13	NDD	513.47	512.72	-0.7509
395	1e+13	NDD	510.02	507.61	-2.4039
571	1e+13	NDD	508.77	507.02	-1.7527
649	0	CORRELATION	513.25	513.95	0.7003
662	0	CORRELATION	507.39	507.71	0.3173
690	0	CORRELATION	507.03	507.19	0.1576
708	0	CORRELATION	509.26	509.65	0.3911

NDD vs Post - Pre Exposure Delta

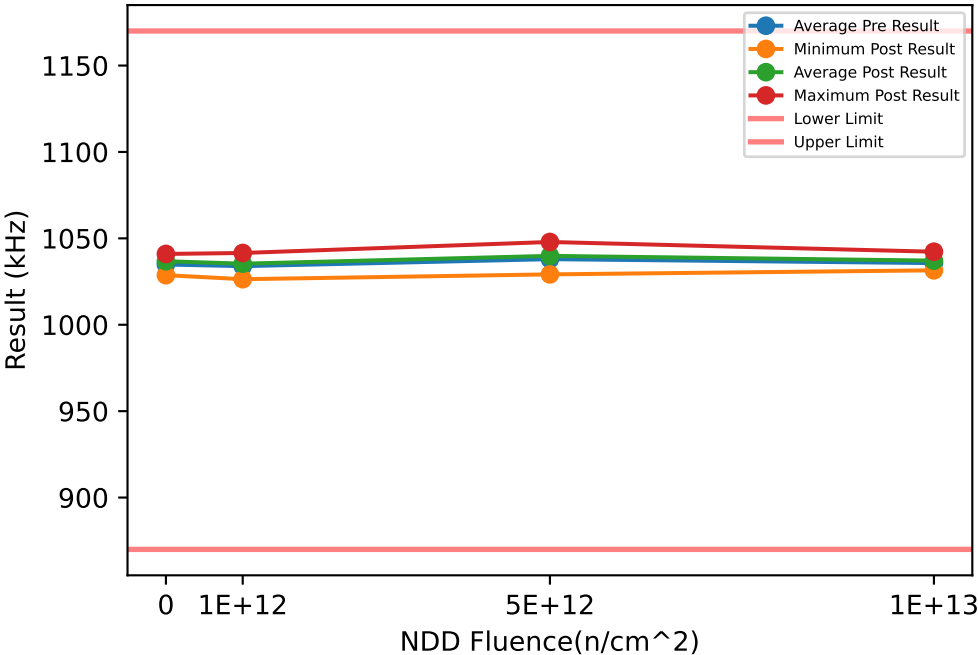


Test Statistics (kHz)

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	507.03	509.23	513.25	2.8494	507.19	509.62	513.95	3.0711	0.1576	0.39157	0.7003	0.22772
1e+12	503.71	508.2	510.95	3.2374	503.86	508.54	511.46	3.3451	0.1485	0.33913	0.5103	0.19737
5e+12	507.24	510.48	514.49	2.9971	506.98	510.17	514.28	3.0427	-0.5544	-0.31058	-0.2103	0.16434
1e+13	508.77	510.6	513.47	2.0087	507.02	508.89	512.72	2.599	-2.4039	-1.7187	-0.7509	0.69978

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

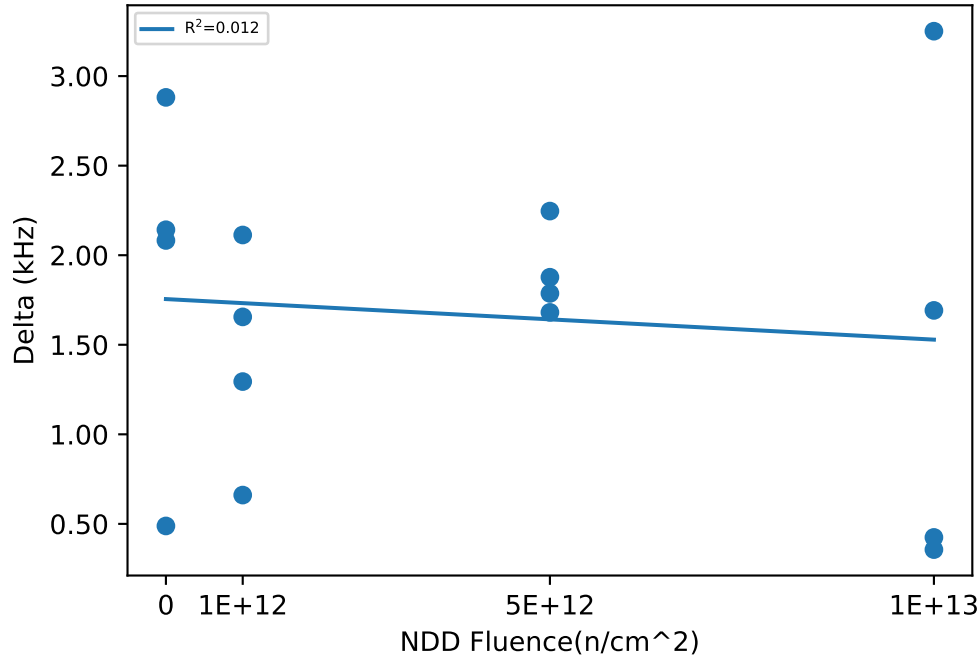
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1039.9	1041.5	1.6556
266	1e+12	NDD	1035.1	1037.2	2.1129
267	1e+12	NDD	1035.6	1036.3	0.6608
288	1e+12	NDD	1025.1	1026.4	1.2945
348	5e+12	NDD	1040.7	1042.4	1.6808
353	5e+12	NDD	1038.1	1040	1.8771
370	5e+12	NDD	1027.4	1029.2	1.7867
377	5e+12	NDD	1045.7	1047.9	2.2464
389	1e+13	NDD	1031.1	1031.5	0.4244
394	1e+13	NDD	1040.6	1042.3	1.6919
395	1e+13	NDD	1036.2	1036.5	0.3564
571	1e+13	NDD	1034.9	1038.2	3.2507
649	0	CORRELATION	1038.1	1041	2.8812
662	0	CORRELATION	1035.4	1037.5	2.0823
690	0	CORRELATION	1028.2	1028.7	0.4884
708	0	CORRELATION	1037.7	1039.9	2.1422

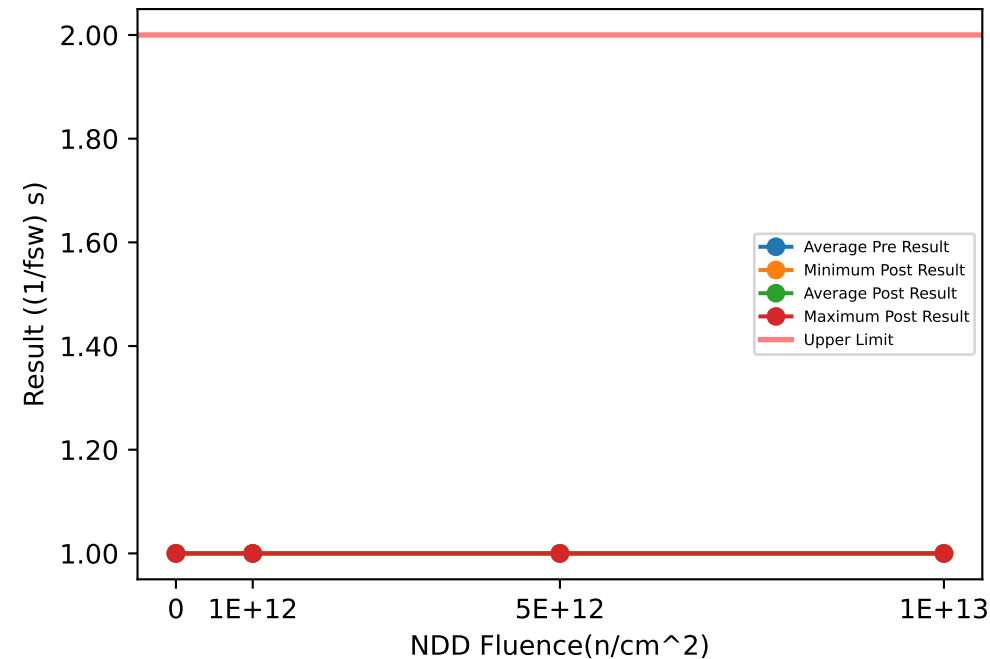
NDD vs Post - Pre Exposure Delta



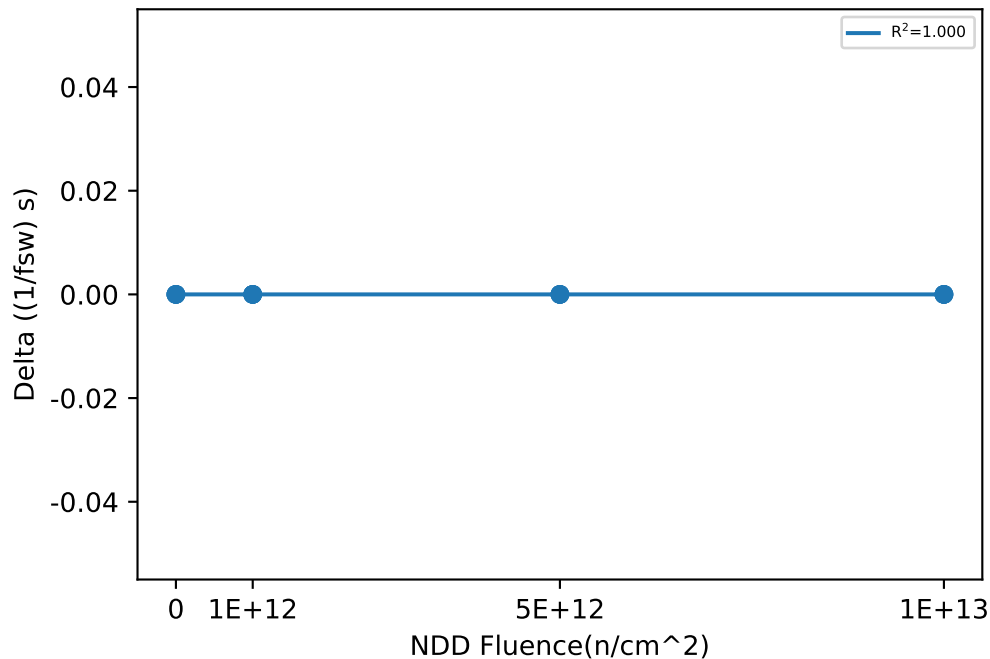
Test Statistics (kHz)

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	1028.2	1034.9	1038.1	4.5922	1028.7	1036.8	1041	5.569	0.4884	1.8985	2.8812	1.0078
1e+12	1025.1	1033.9	1039.9	6.2751	1026.4	1035.3	1041.5	6.4099	0.6608	1.431	2.1129	0.61299
5e+12	1027.4	1038	1045.7	7.7261	1029.2	1039.9	1047.9	7.8693	1.6808	1.8977	2.2464	0.24589
1e+13	1031.1	1035.7	1040.6	3.914	1031.5	1037.1	1042.3	4.451	0.3564	1.4309	3.2507	1.3598

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

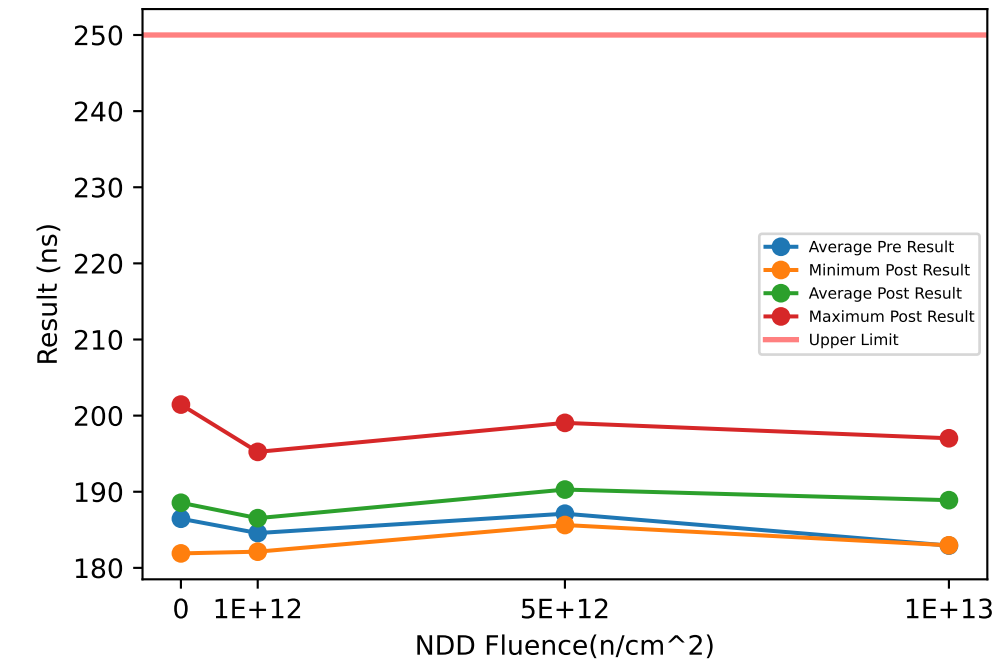
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1	1	0
266	1e+12	NDD	1	1	0
267	1e+12	NDD	1	1	0
288	1e+12	NDD	1	1	0
348	5e+12	NDD	1	1	0
353	5e+12	NDD	1	1	0
370	5e+12	NDD	1	1	0
377	5e+12	NDD	1	1	0
389	1e+13	NDD	1	1	0
394	1e+13	NDD	1	1	0
395	1e+13	NDD	1	1	0
571	1e+13	NDD	1	1	0
649	0	CORRELATION	1	1	0
662	0	CORRELATION	1	1	0
690	0	CORRELATION	1	1	0
708	0	CORRELATION	1	1	0

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

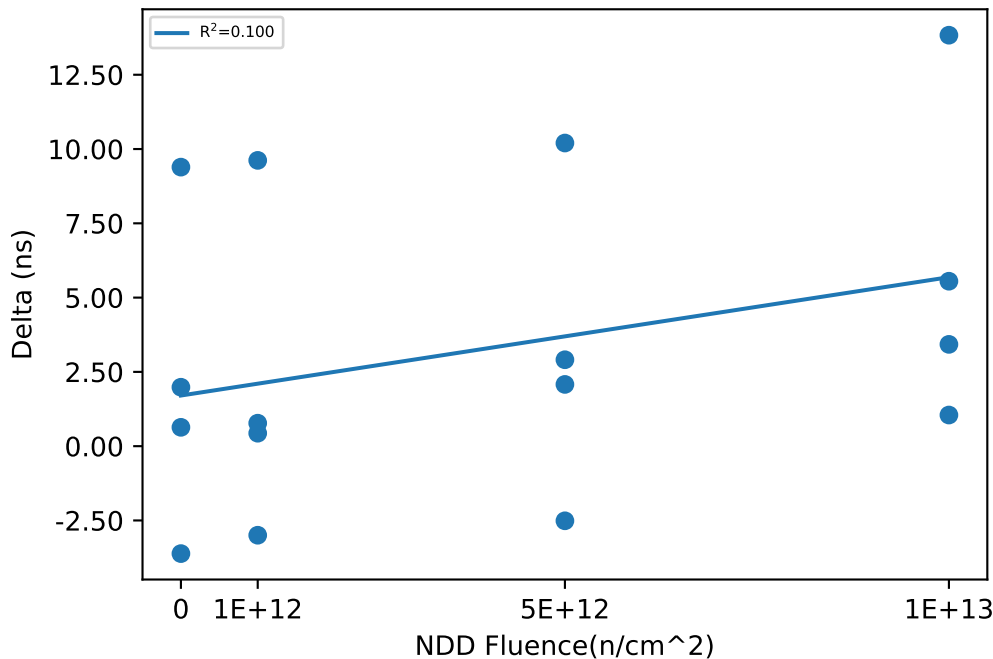
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	181.35	182.13	0.7734
266	1e+12	NDD	184.41	184.85	0.4362
267	1e+12	NDD	185.62	195.24	9.6183
288	1e+12	NDD	186.91	183.91	-2.9972
348	5e+12	NDD	185.16	188.07	2.9088
353	5e+12	NDD	183.55	185.63	2.0784
370	5e+12	NDD	188.84	199.05	10.202
377	5e+12	NDD	190.91	188.4	-2.5114
389	1e+13	NDD	181.92	187.47	5.5512
394	1e+13	NDD	179.54	182.97	3.4261
395	1e+13	NDD	183.19	197.03	13.831
571	1e+13	NDD	187.06	188.11	1.0482
649	0	CORRELATION	182.48	183.11	0.6346
662	0	CORRELATION	192.06	201.45	9.3911
690	0	CORRELATION	185.52	181.9	-3.6153
708	0	CORRELATION	185.76	187.75	1.9836

NDD vs Post - Pre Exposure Delta

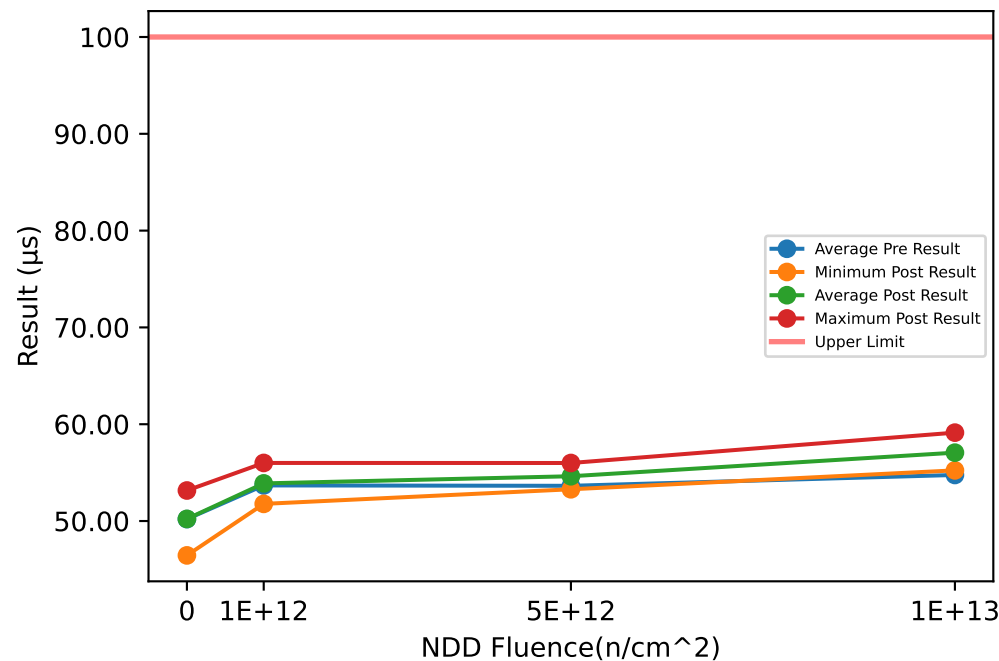


Test Statistics (ns)

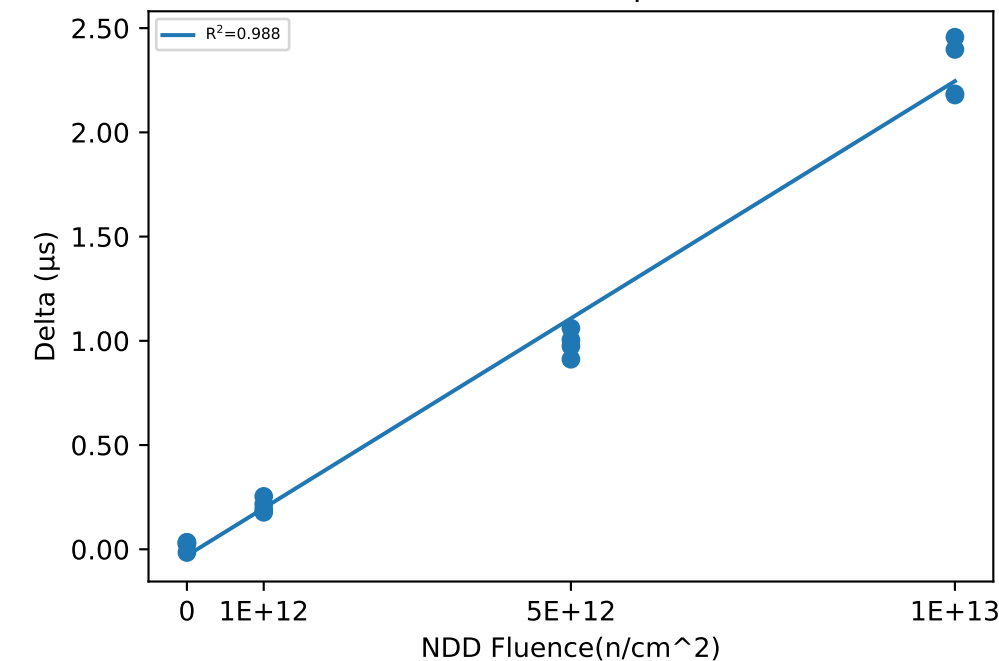
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	182.48	186.45	192.06	4.0251	181.9	188.55	201.45	8.9606	-3.6153	2.0985	9.3911	5.4156
1e+12	181.35	184.57	186.91	2.3755	182.13	186.53	195.24	5.9132	-2.9972	1.9577	9.6183	5.3837
5e+12	183.55	187.12	190.91	3.3642	185.63	190.29	199.05	5.9698	-2.5114	3.1695	10.202	5.2597
1e+13	179.54	182.93	187.06	3.143	182.97	188.89	197.03	5.8851	1.0482	5.9641	13.831	5.5578

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



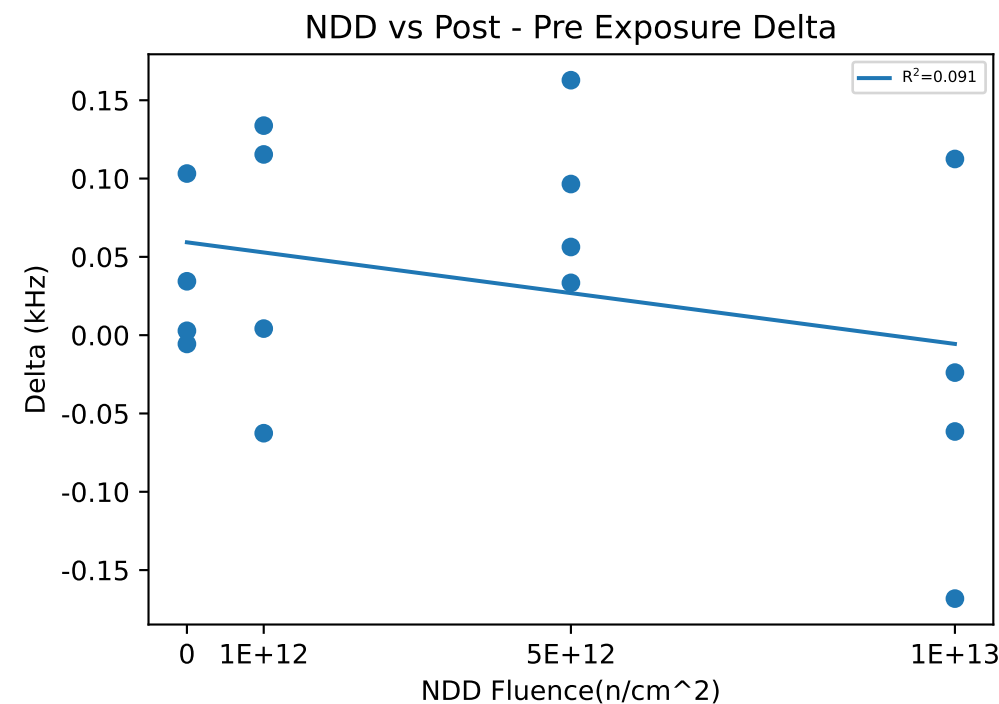
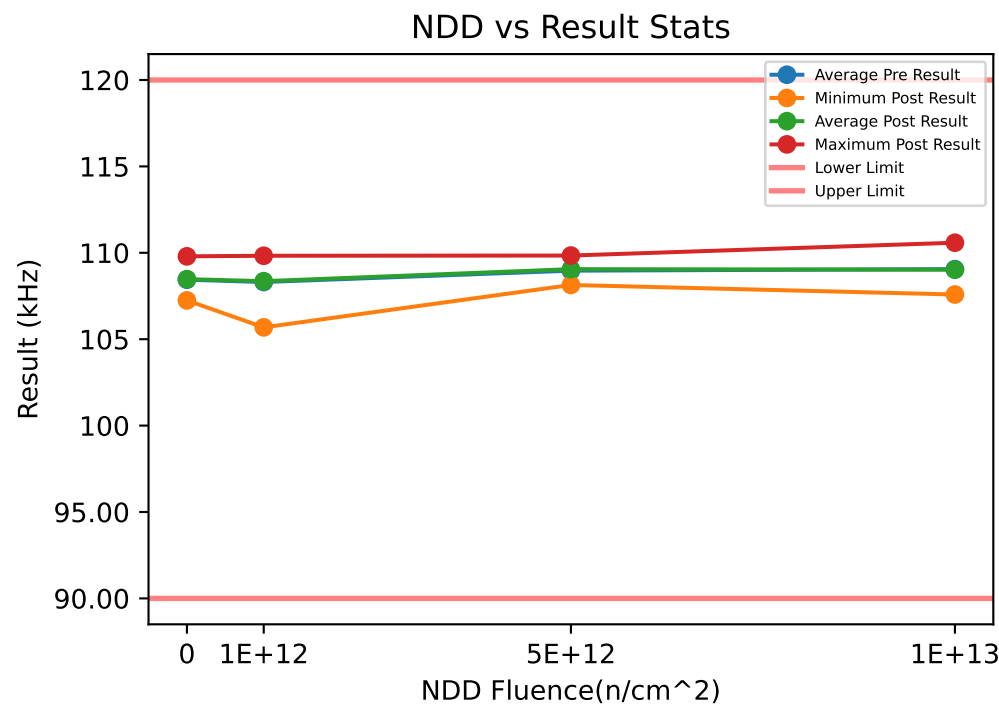
Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	55.746	56	0.2539
266	1e+12	NDD	51.555	51.772	0.2165
267	1e+12	NDD	54.682	54.872	0.1907
288	1e+12	NDD	52.729	52.907	0.1773
348	5e+12	NDD	52.305	53.28	0.9745
353	5e+12	NDD	54.934	55.995	1.0606
370	5e+12	NDD	53.443	54.447	1.0046
377	5e+12	NDD	53.872	54.784	0.9115
389	1e+13	NDD	56.674	59.13	2.4565
394	1e+13	NDD	55.143	57.328	2.1847
395	1e+13	NDD	53.054	55.233	2.1789
571	1e+13	NDD	54.159	56.557	2.3978
649	0	CORRELATION	48.652	48.685	0.0334
662	0	CORRELATION	53.129	53.153	0.0239
690	0	CORRELATION	46.465	46.45	-0.0155
708	0	CORRELATION	52.552	52.585	0.0329

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	46.465	50.199	53.129	3.1863	46.45	50.218	53.153	3.2024	-0.0155	0.018675	0.0334	0.023198
1e+12	51.555	53.678	55.746	1.8877	51.772	53.888	56	1.9036	0.1773	0.2096	0.2539	0.033717
5e+12	52.305	53.639	54.934	1.0877	53.28	54.626	55.995	1.1169	0.9115	0.9878	1.0606	0.062131
1e+13	53.054	54.758	56.674	1.5364	55.233	57.062	59.13	1.6279	2.1789	2.3045	2.4565	0.14369

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

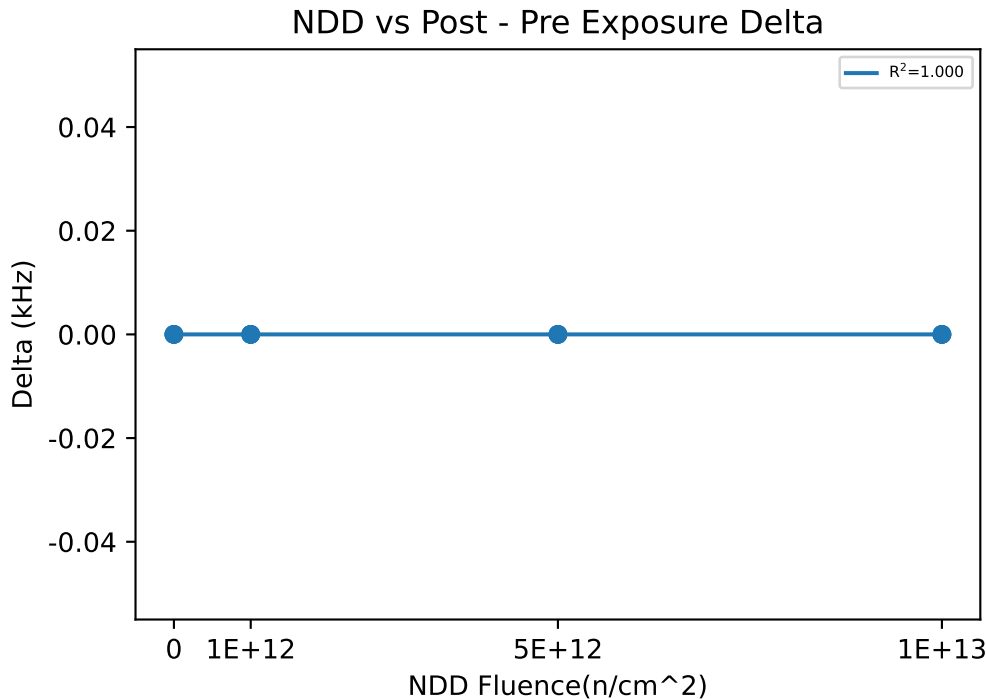
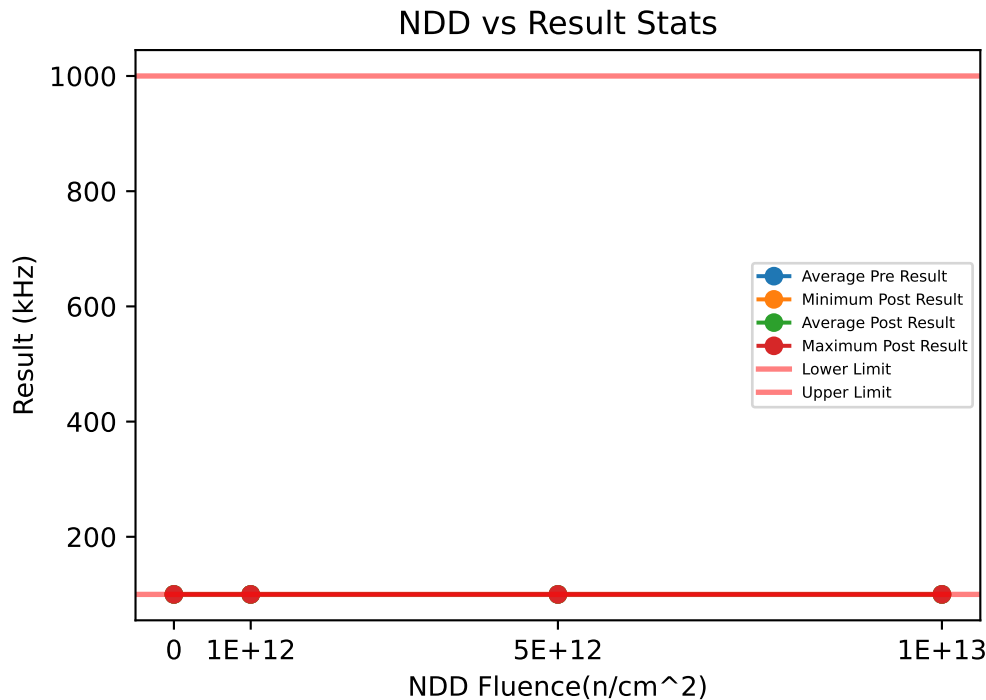


Test Results (Lower Limit = 90.0, Upper Limit = 120.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	109.71	109.83	0.1154
266	1e+12	NDD	108.22	108.36	0.1338
267	1e+12	NDD	109.55	109.56	0.0042
288	1e+12	NDD	105.75	105.68	-0.0626
348	5e+12	NDD	109.81	109.84	0.0334
353	5e+12	NDD	109.05	109.15	0.0965
370	5e+12	NDD	107.98	108.14	0.1628
377	5e+12	NDD	109.03	109.09	0.0563
389	1e+13	NDD	108.68	108.62	-0.0615
394	1e+13	NDD	110.61	110.58	-0.0239
395	1e+13	NDD	109.46	109.3	-0.1682
571	1e+13	NDD	107.47	107.59	0.1125
649	0	CORRELATION	109.69	109.79	0.1032
662	0	CORRELATION	107.94	107.93	-0.0056
690	0	CORRELATION	107.24	107.25	0.0028
708	0	CORRELATION	108.9	108.94	0.0344

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	107.24	108.44	109.69	1.0749	107.25	108.48	109.79	1.1198	-0.0056	0.0337	0.1032	0.04943
1e+12	105.75	108.31	109.71	1.8345	105.68	108.36	109.83	1.8934	-0.0626	0.0477	0.1338	0.093193
5e+12	107.98	108.97	109.81	0.75275	108.14	109.05	109.84	0.69922	0.0334	0.08725	0.1628	0.056719
1e+13	107.47	109.06	110.61	1.3188	107.59	109.02	110.58	1.2566	-0.1682	-0.035275	0.1125	0.11594



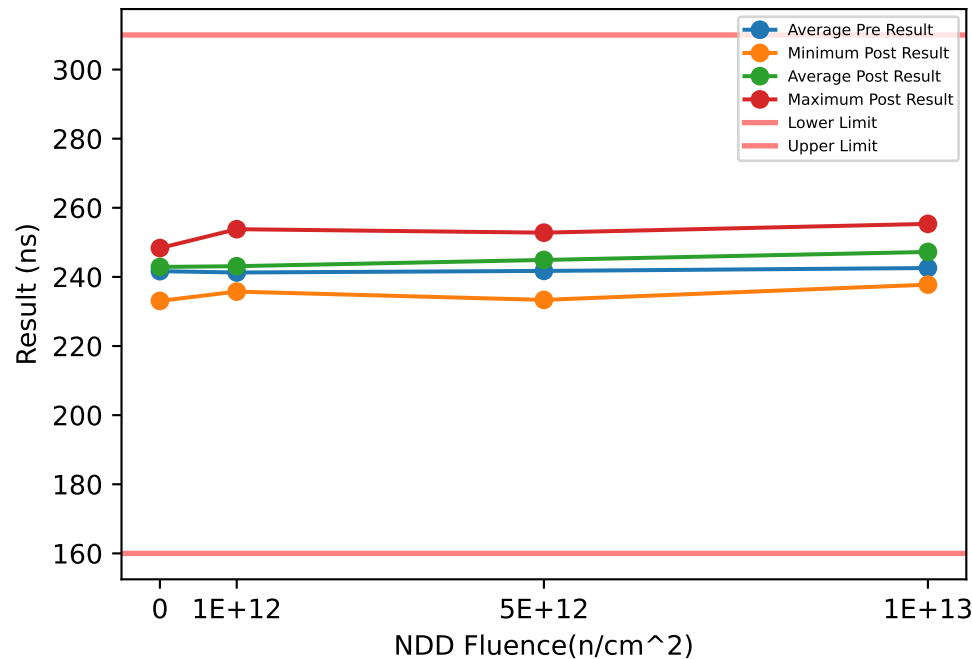
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	100	100	0
266	1e+12	NDD	100	100	0
267	1e+12	NDD	100	100	0
288	1e+12	NDD	100	100	0
348	5e+12	NDD	100	100	0
353	5e+12	NDD	100	100	0
370	5e+12	NDD	100	100	0
377	5e+12	NDD	100	100	0
389	1e+13	NDD	100	100	0
394	1e+13	NDD	100	100	0
395	1e+13	NDD	100	100	0
571	1e+13	NDD	100	100	0
649	0	CORRELATION	100	100	0
662	0	CORRELATION	100	100	0
690	0	CORRELATION	100	100	0
708	0	CORRELATION	100	100	0

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

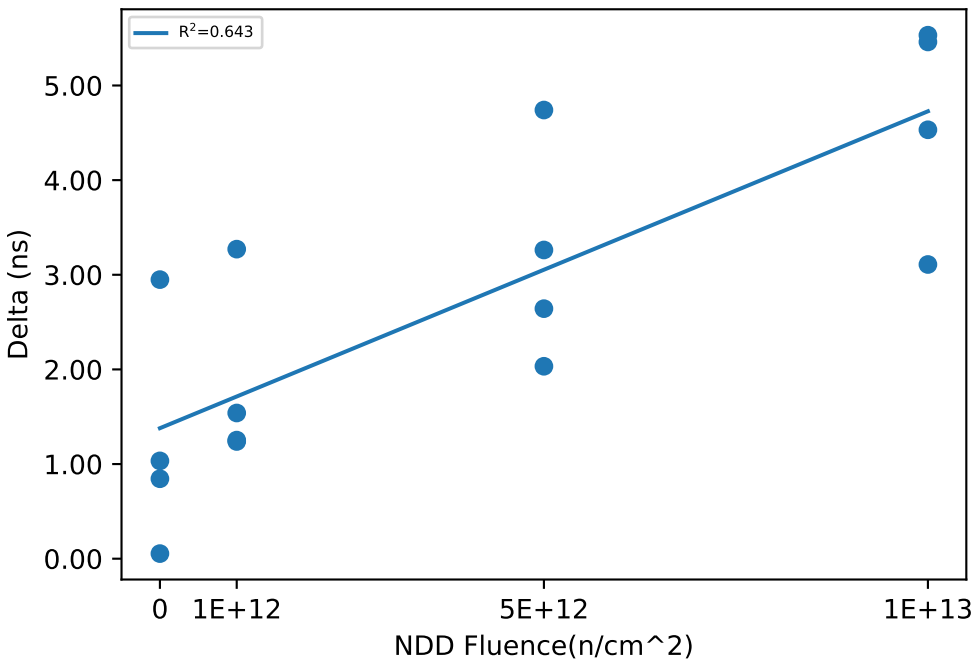
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	234.21	235.75	1.5396
266	1e+12	NDD	252.57	253.81	1.2385
267	1e+12	NDD	235.14	238.42	3.2708
288	1e+12	NDD	243.17	244.42	1.253
348	5e+12	NDD	230.09	233.35	3.262
353	5e+12	NDD	250.77	252.8	2.0332
370	5e+12	NDD	236.34	241.08	4.7407
377	5e+12	NDD	249.76	252.4	2.642
389	1e+13	NDD	233.23	237.76	4.532
394	1e+13	NDD	252.24	255.35	3.1087
395	1e+13	NDD	238.45	243.91	5.4601
571	1e+13	NDD	246.35	251.88	5.5314
649	0	CORRELATION	247.05	247.1	0.0539
662	0	CORRELATION	240.07	243.02	2.9489
690	0	CORRELATION	247.5	248.35	0.8448
708	0	CORRELATION	232.03	233.06	1.0335

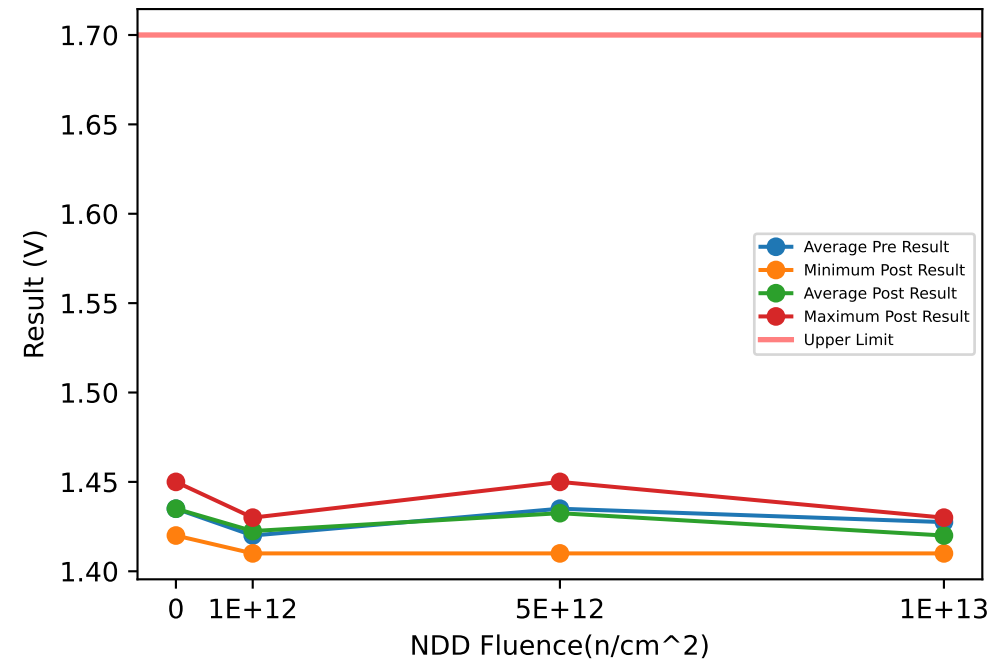
NDD vs Post - Pre Exposure Delta



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	232.03	241.66	247.5	7.2674	233.06	242.88	248.35	6.931	0.0539	1.2203	2.9489	1.2281
1e+12	234.21	241.27	252.57	8.5365	235.75	243.1	253.81	8.0072	1.2385	1.8255	3.2708	0.97347
5e+12	230.09	241.74	250.77	10.177	233.35	244.91	252.8	9.4283	2.0332	3.1695	4.7407	1.1614
1e+13	233.23	242.57	252.24	8.4068	237.76	247.22	255.35	7.9209	3.1087	4.6581	5.5314	1.1288

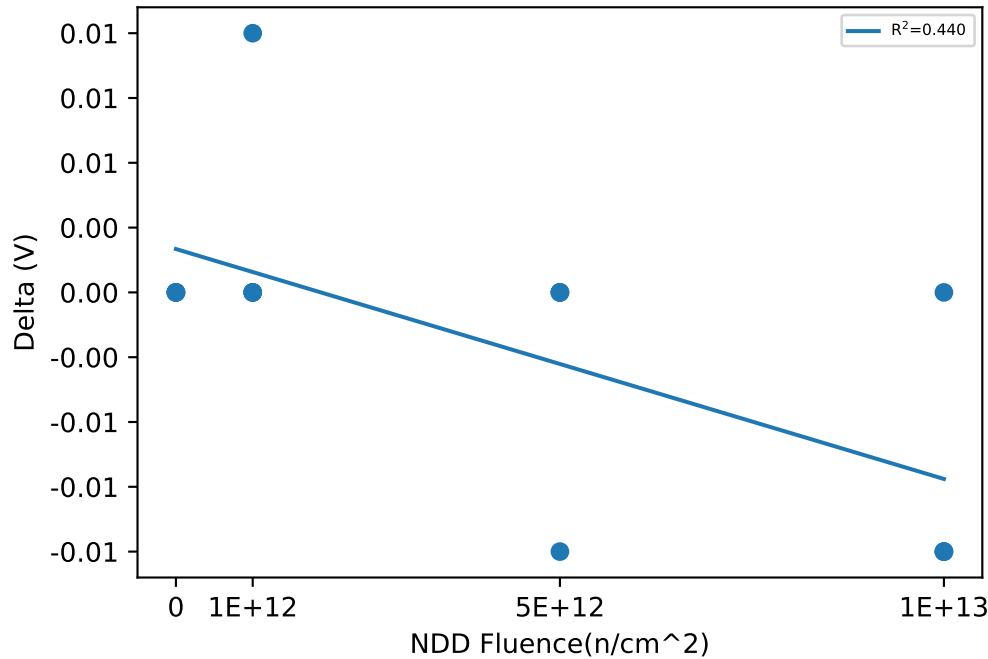
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.42	1.42	0
266	1e+12	NDD	1.41	1.41	0
267	1e+12	NDD	1.42	1.43	0.01
288	1e+12	NDD	1.43	1.43	0
348	5e+12	NDD	1.45	1.45	0
353	5e+12	NDD	1.44	1.43	-0.01
370	5e+12	NDD	1.44	1.44	0
377	5e+12	NDD	1.41	1.41	0
389	1e+13	NDD	1.42	1.41	-0.01
394	1e+13	NDD	1.43	1.42	-0.01
395	1e+13	NDD	1.44	1.43	-0.01
571	1e+13	NDD	1.42	1.42	0
649	0	CORRELATION	1.45	1.45	0
662	0	CORRELATION	1.43	1.43	0
690	0	CORRELATION	1.42	1.42	0
708	0	CORRELATION	1.44	1.44	0

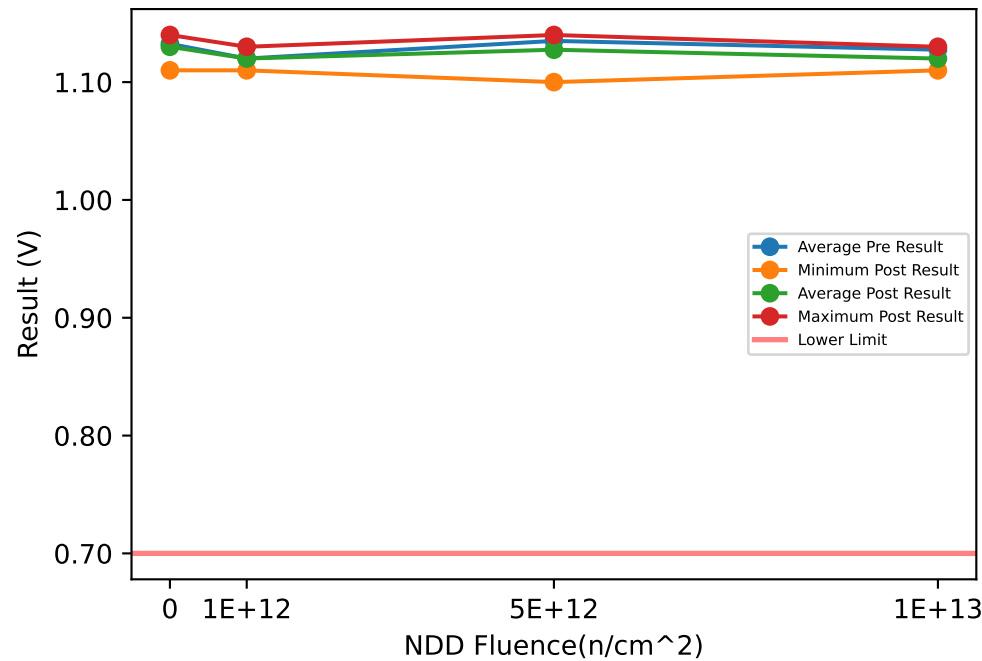
NDD vs Post - Pre Exposure Delta



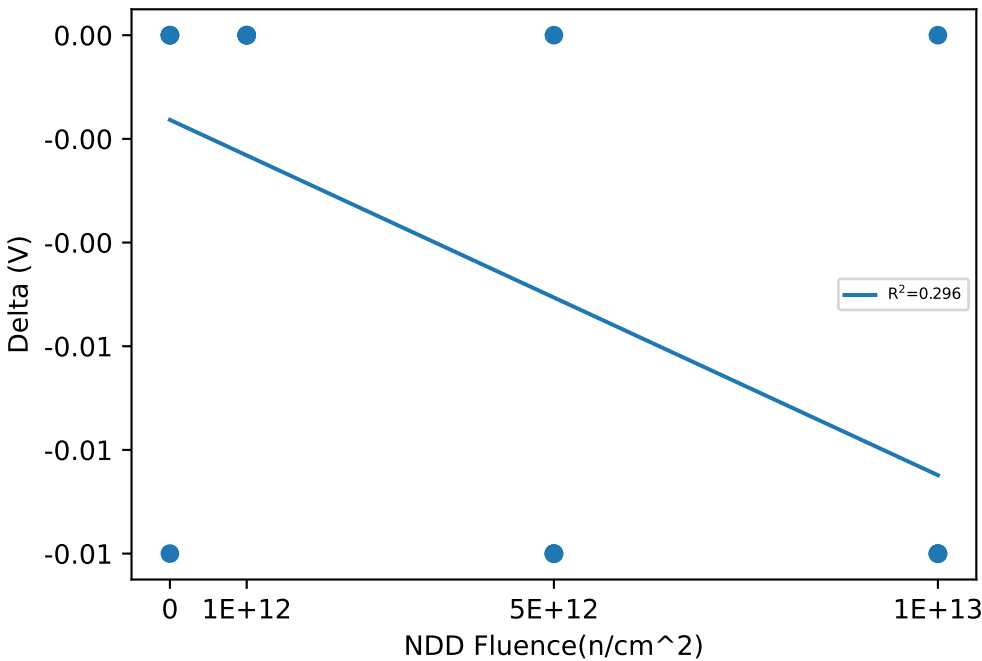
Test Statistics (V)

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	1.42	1.435	1.45	0.01291	1.42	1.435	1.45	0.01291	0	0	0	0
1e+12	1.41	1.42	1.43	0.008165	1.41	1.4225	1.43	0.0095743	0	0.0025	0.01	0.005
5e+12	1.41	1.435	1.45	0.017321	1.41	1.4325	1.45	0.017078	-0.01	-0.0025	0	0.005
1e+13	1.42	1.4275	1.44	0.0095743	1.41	1.42	1.43	0.008165	-0.01	-0.0075	0	0.005

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



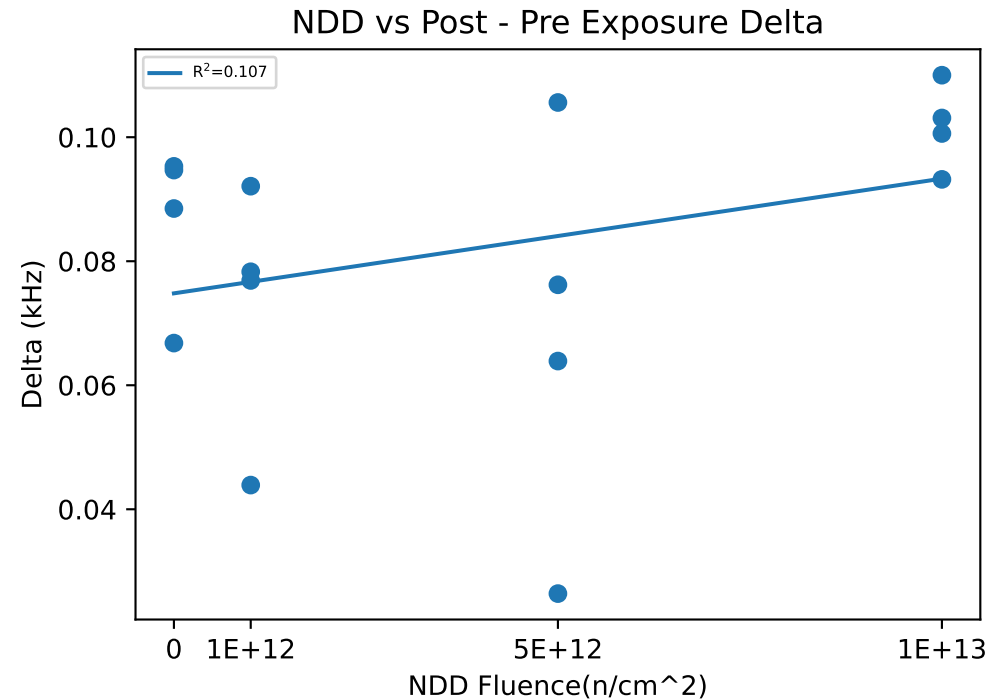
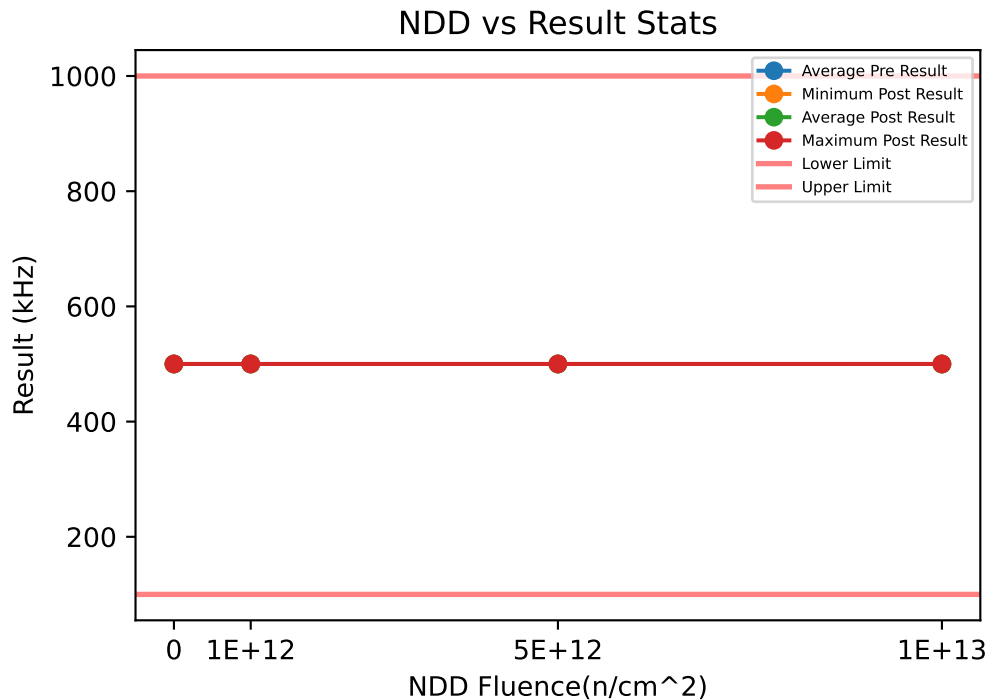
Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.12	1.12	0
266	1e+12	NDD	1.11	1.11	0
267	1e+12	NDD	1.12	1.12	0
288	1e+12	NDD	1.13	1.13	0
348	5e+12	NDD	1.15	1.14	-0.01
353	5e+12	NDD	1.14	1.14	0
370	5e+12	NDD	1.14	1.13	-0.01
377	5e+12	NDD	1.11	1.1	-0.01
389	1e+13	NDD	1.12	1.11	-0.01
394	1e+13	NDD	1.12	1.12	0
395	1e+13	NDD	1.14	1.13	-0.01
571	1e+13	NDD	1.13	1.12	-0.01
649	0	CORRELATION	1.15	1.14	-0.01
662	0	CORRELATION	1.13	1.13	0
690	0	CORRELATION	1.11	1.11	0
708	0	CORRELATION	1.14	1.14	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	1.11	1.1325	1.15	0.017078	1.11	1.13	1.14	0.014142	-0.01	-0.0025	0	0.005
1e+12	1.11	1.12	1.13	0.008165	1.11	1.12	1.13	0.008165	0	0	0	0
5e+12	1.11	1.135	1.15	0.017321	1.1	1.1275	1.14	0.01893	-0.01	-0.0075	0	0.005
1e+13	1.12	1.1275	1.14	0.0095743	1.11	1.12	1.13	0.008165	-0.01	-0.0075	0	0.005

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

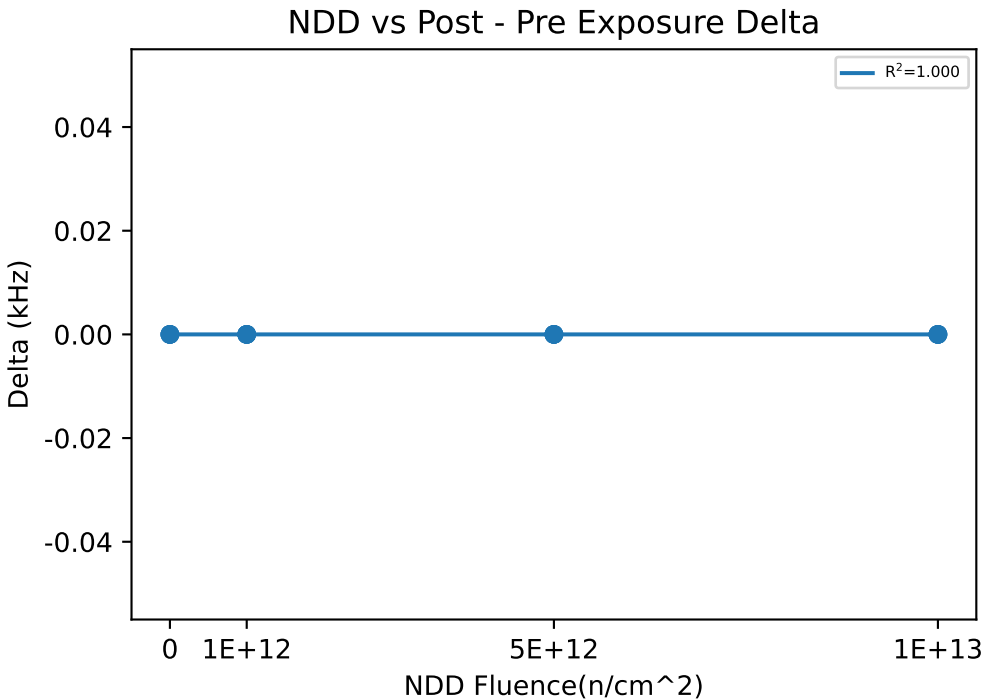
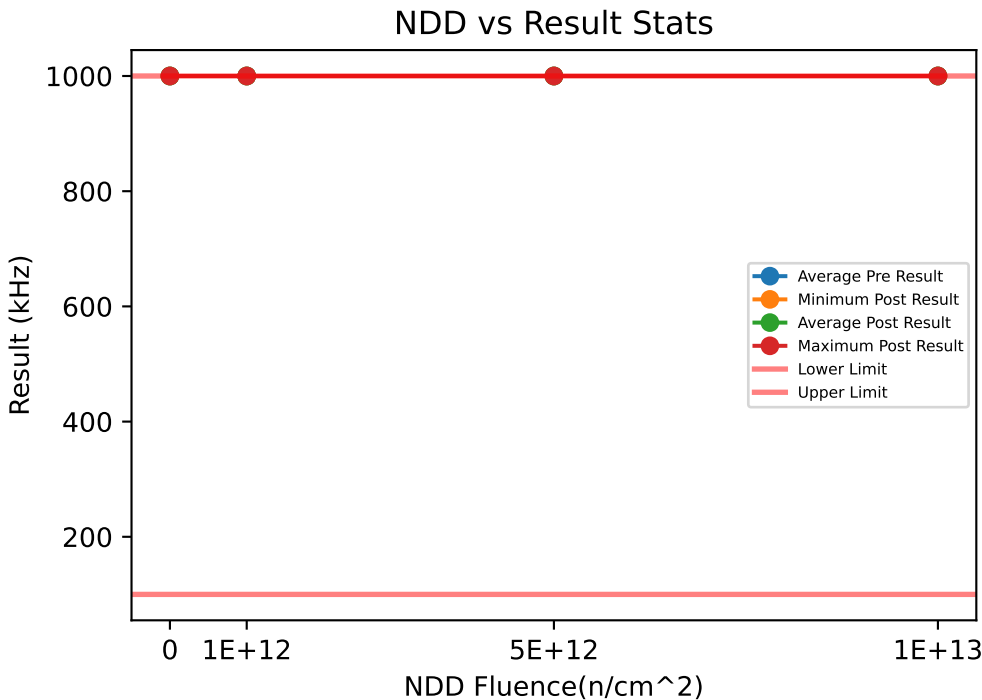


Test Results (Lower Limit = 100.0,
Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	499.95	500.03	0.0783
266	1e+12	NDD	499.96	500.05	0.0921
267	1e+12	NDD	499.98	500.06	0.0769
288	1e+12	NDD	499.99	500.03	0.0439
348	5e+12	NDD	499.94	500.02	0.0762
353	5e+12	NDD	499.96	500.07	0.1056
370	5e+12	NDD	499.99	500.06	0.0639
377	5e+12	NDD	499.99	500.01	0.0264
389	1e+13	NDD	499.92	500.03	0.11
394	1e+13	NDD	499.94	500.04	0.1031
395	1e+13	NDD	499.96	500.06	0.1006
571	1e+13	NDD	499.95	500.04	0.0932
649	0	CORRELATION	499.94	500.03	0.0947
662	0	CORRELATION	499.97	500.06	0.0885
690	0	CORRELATION	499.96	500.03	0.0668
708	0	CORRELATION	499.93	500.03	0.0953

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	499.93	499.95	499.97	0.016921	500.03	500.04	500.06	0.013339	0.0668	0.086325	0.0953	0.013375
1e+12	499.95	499.97	499.99	0.019299	500.03	500.04	500.06	0.014075	0.0439	0.0728	0.0921	0.020451
5e+12	499.94	499.97	499.99	0.023608	500.01	500.04	500.07	0.027547	0.0264	0.068025	0.1056	0.032804
1e+13	499.92	499.94	499.96	0.018733	500.03	500.04	500.06	0.014212	0.0932	0.10173	0.11	0.0069356



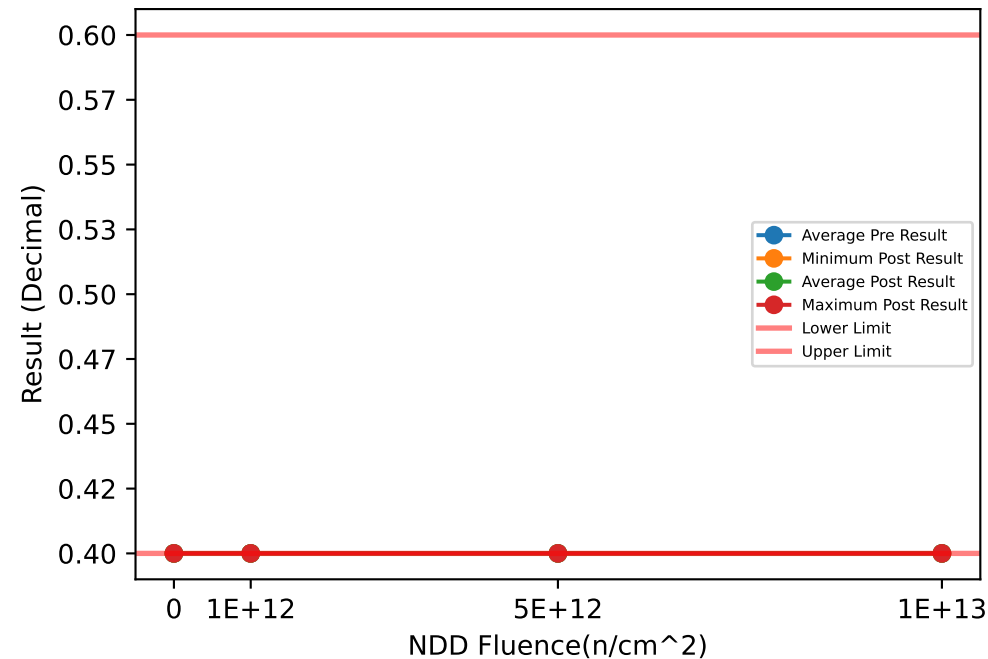
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1000	1000	0
266	1e+12	NDD	1000	1000	0
267	1e+12	NDD	1000	1000	0
288	1e+12	NDD	1000	1000	0
348	5e+12	NDD	1000	1000	0
353	5e+12	NDD	1000	1000	0
370	5e+12	NDD	1000	1000	0
377	5e+12	NDD	1000	1000	0
389	1e+13	NDD	1000	1000	0
394	1e+13	NDD	1000	1000	0
395	1e+13	NDD	1000	1000	0
571	1e+13	NDD	1000	1000	0
649	0	CORRELATION	1000	1000	0
662	0	CORRELATION	1000	1000	0
690	0	CORRELATION	1000	1000	0
708	0	CORRELATION	1000	1000	0

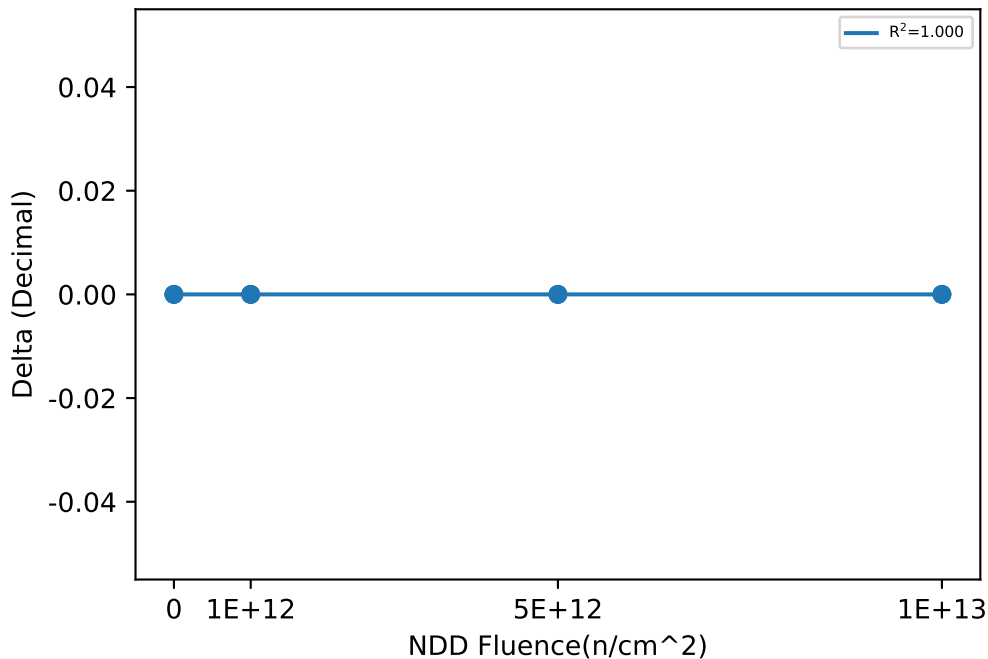
Test Statistics (kHz)

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



NDD vs Post - Pre Exposure Delta



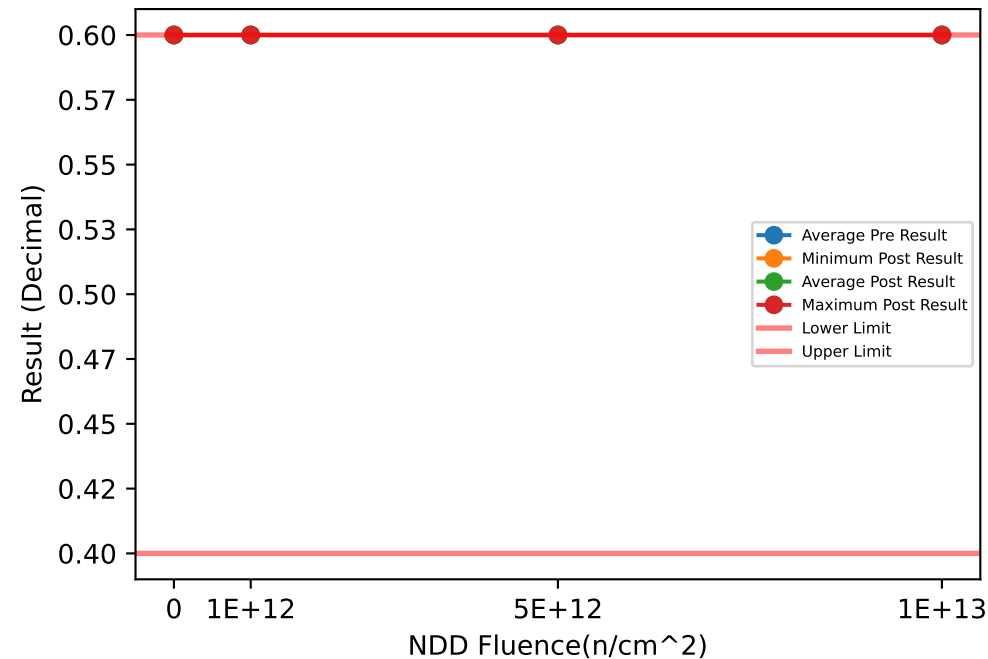
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.4	0.4	0
266	1e+12	NDD	0.4	0.4	0
267	1e+12	NDD	0.4	0.4	0
288	1e+12	NDD	0.4	0.4	0
348	5e+12	NDD	0.4	0.4	0
353	5e+12	NDD	0.4	0.4	0
370	5e+12	NDD	0.4	0.4	0
377	5e+12	NDD	0.4	0.4	0
389	1e+13	NDD	0.4	0.4	0
394	1e+13	NDD	0.4	0.4	0
395	1e+13	NDD	0.4	0.4	0
571	1e+13	NDD	0.4	0.4	0
649	0	CORRELATION	0.4	0.4	0
662	0	CORRELATION	0.4	0.4	0
690	0	CORRELATION	0.4	0.4	0
708	0	CORRELATION	0.4	0.4	0

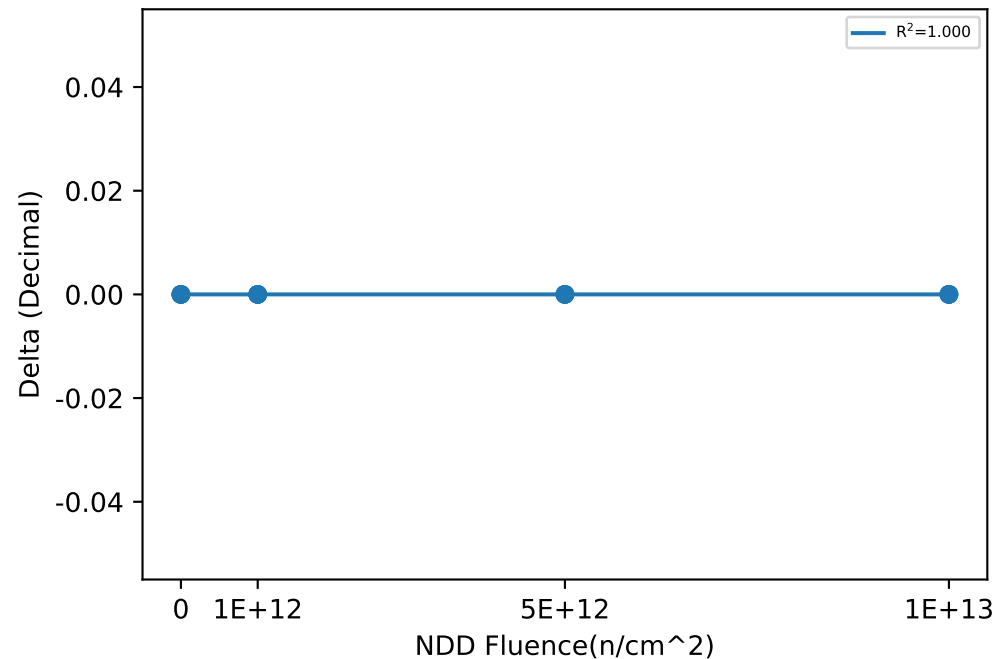
Test Statistics (Decimal)

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



NDD vs Post - Pre Exposure Delta



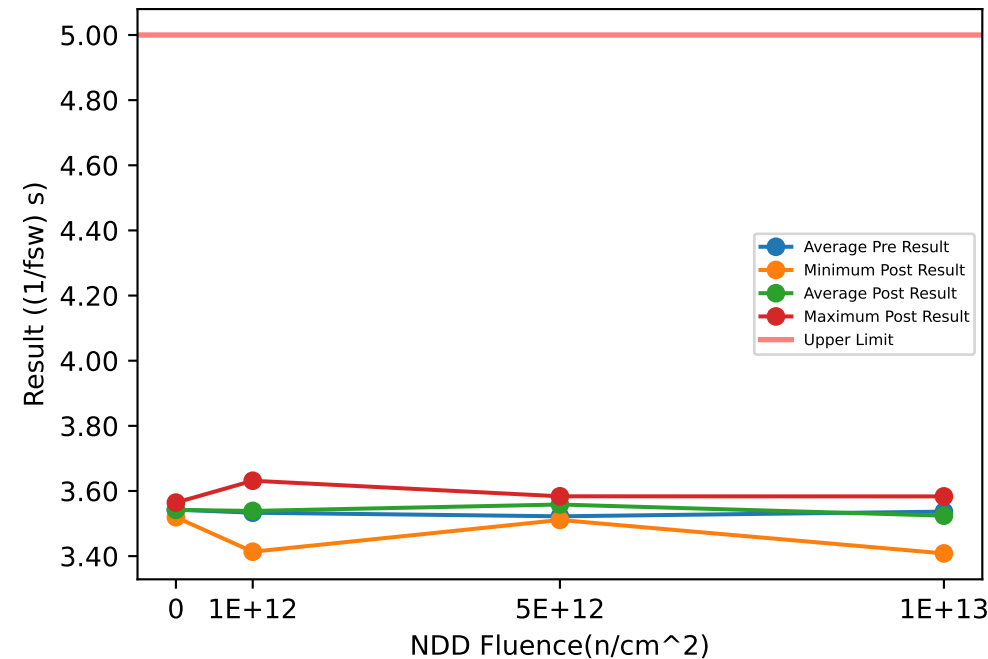
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6	0.6	0
266	1e+12	NDD	0.6	0.6	0
267	1e+12	NDD	0.6	0.6	0
288	1e+12	NDD	0.6	0.6	0
348	5e+12	NDD	0.6	0.6	0
353	5e+12	NDD	0.6	0.6	0
370	5e+12	NDD	0.6	0.6	0
377	5e+12	NDD	0.6	0.6	0
389	1e+13	NDD	0.6	0.6	0
394	1e+13	NDD	0.6	0.6	0
395	1e+13	NDD	0.6	0.6	0
571	1e+13	NDD	0.6	0.6	0
649	0	CORRELATION	0.6	0.6	0
662	0	CORRELATION	0.6	0.6	0
690	0	CORRELATION	0.6	0.6	0
708	0	CORRELATION	0.6	0.6	0

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

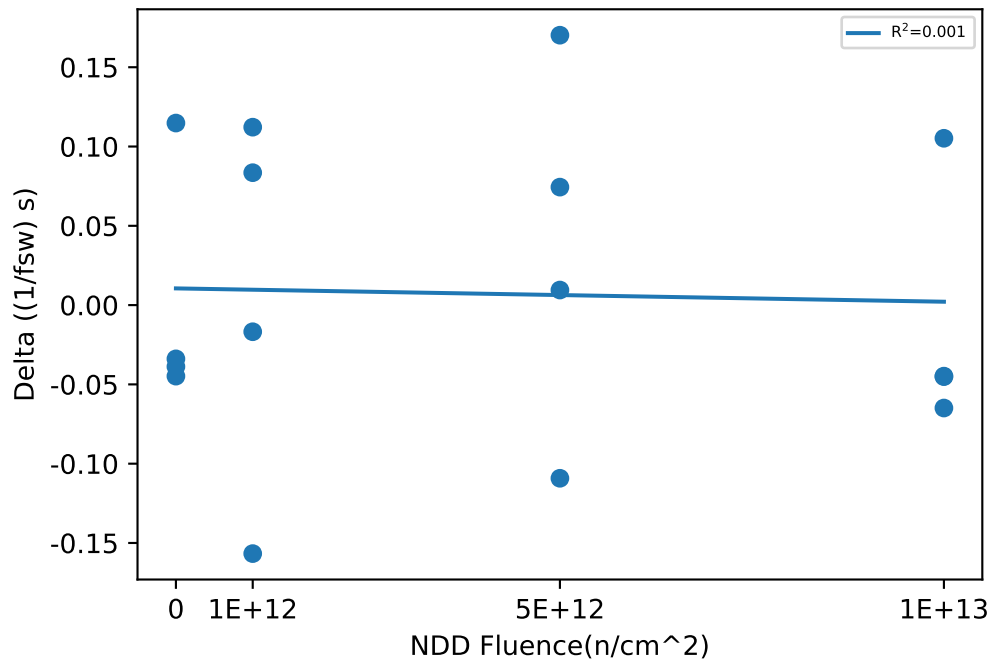
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.4609	3.5444	0.0835
266	1e+12	NDD	3.5193	3.6315	0.1122
267	1e+12	NDD	3.5703	3.4136	-0.1567
288	1e+12	NDD	3.5825	3.5657	-0.0168
348	5e+12	NDD	3.6202	3.511	-0.1092
353	5e+12	NDD	3.4104	3.5806	0.1702
370	5e+12	NDD	3.5093	3.5837	0.0744
377	5e+12	NDD	3.5491	3.5586	0.0095
389	1e+13	NDD	3.4668	3.572	0.1052
394	1e+13	NDD	3.6483	3.5834	-0.0649
395	1e+13	NDD	3.5779	3.5331	-0.0448
571	1e+13	NDD	3.4535	3.4084	-0.0451
649	0	CORRELATION	3.4046	3.5194	0.1148
662	0	CORRELATION	3.6031	3.5643	-0.0388
690	0	CORRELATION	3.584	3.5501	-0.0339
708	0	CORRELATION	3.5791	3.5343	-0.0448

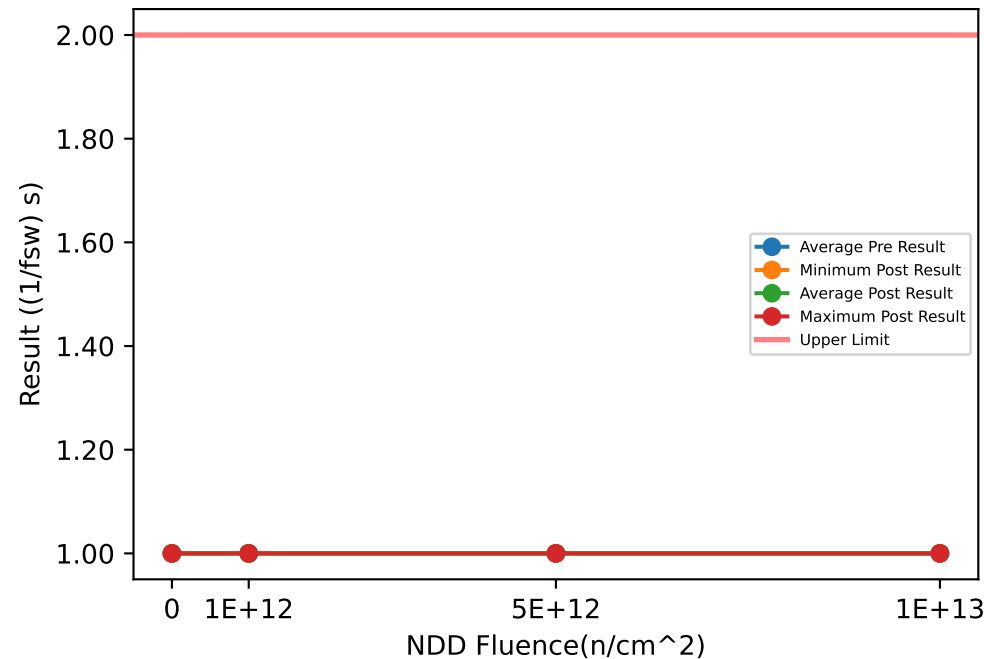
NDD vs Post - Pre Exposure Delta



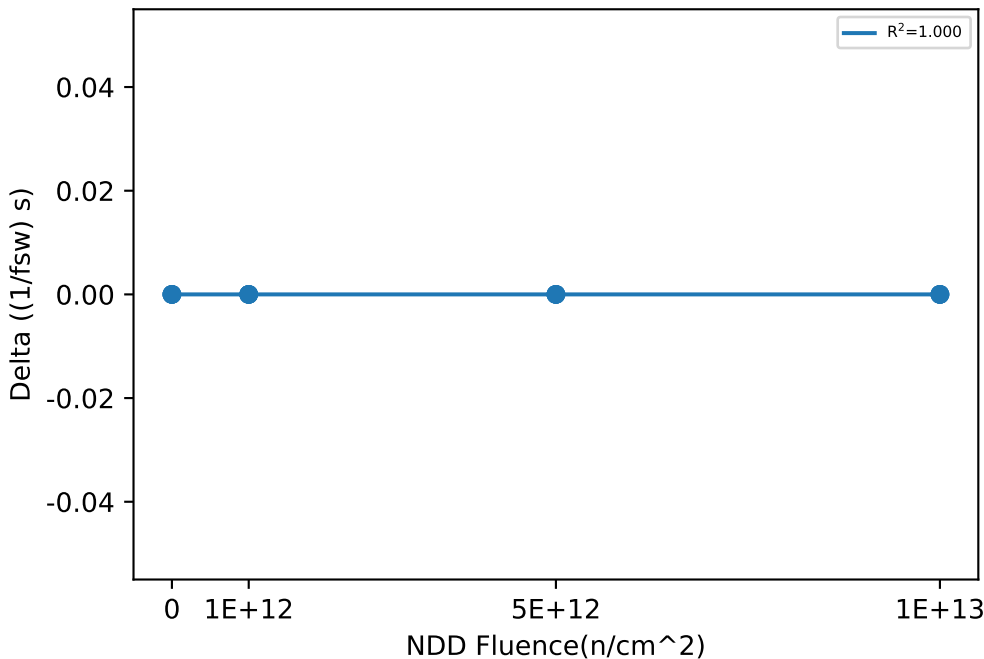
Test Statistics ((1/fsw) s)

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	3.4046	3.5427	3.6031	0.092647	3.5194	3.542	3.5643	0.019433	-0.0448	-0.000675	0.1148	0.077112
1e+12	3.4609	3.5332	3.5825	0.05546	3.4136	3.5388	3.6315	0.09133	-0.1567	0.00555	0.1122	0.12148
5e+12	3.4104	3.5223	3.6202	0.087547	3.511	3.5585	3.5837	0.033564	-0.1092	0.036225	0.1702	0.11729
1e+13	3.4535	3.5366	3.6483	0.093024	3.4084	3.5242	3.5834	0.080163	-0.0649	-0.0124	0.1052	0.078962

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



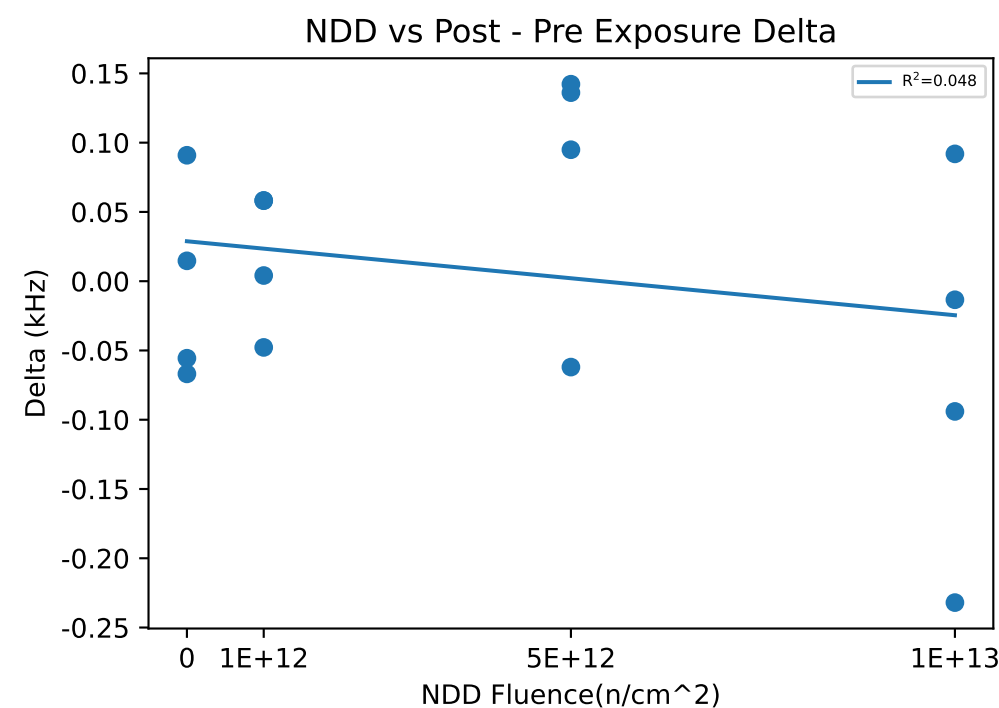
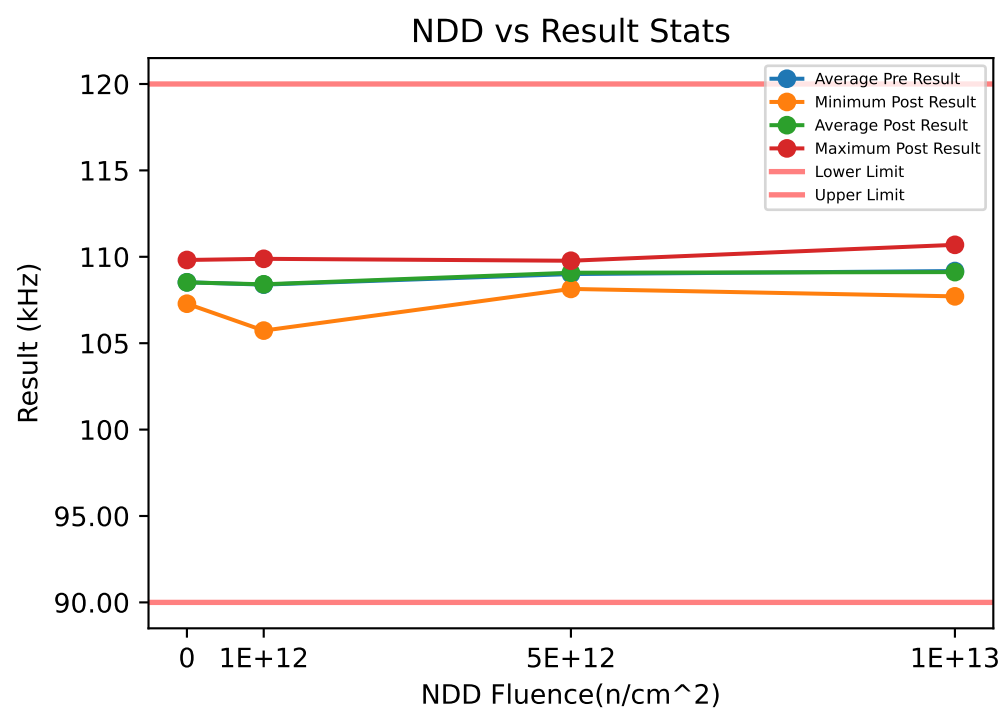
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1	1	0
266	1e+12	NDD	1	1	0
267	1e+12	NDD	1	1	0
288	1e+12	NDD	1	1	0
348	5e+12	NDD	1	1	0
353	5e+12	NDD	1	1	0
370	5e+12	NDD	1	1	0
377	5e+12	NDD	1	1	0
389	1e+13	NDD	1	1	0
394	1e+13	NDD	1	1	0
395	1e+13	NDD	1	1	0
571	1e+13	NDD	1	1	0
649	0	CORRELATION	1	1	0
662	0	CORRELATION	1	1	0
690	0	CORRELATION	1	1	0
708	0	CORRELATION	1	1	0

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



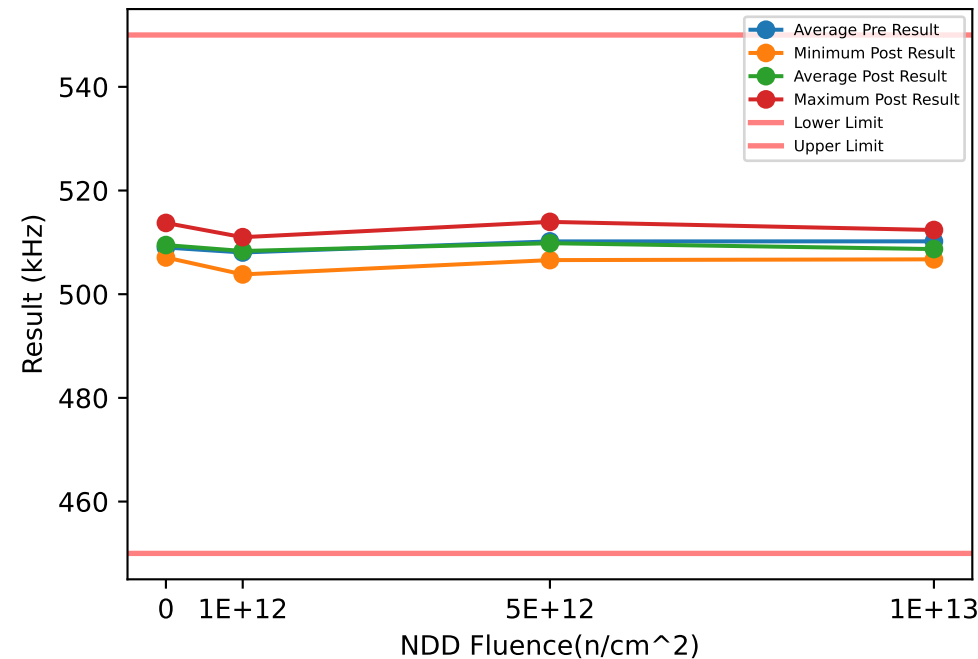
Test Results (Lower Limit = 90.0, Upper Limit = 120.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	109.82	109.88	0.0583
266	1e+12	NDD	108.34	108.4	0.0581
267	1e+12	NDD	109.62	109.62	0.0041
288	1e+12	NDD	105.78	105.73	-0.0478
348	5e+12	NDD	109.83	109.77	-0.062
353	5e+12	NDD	109.08	109.21	0.1361
370	5e+12	NDD	108.05	108.14	0.0949
377	5e+12	NDD	109.05	109.19	0.1422
389	1e+13	NDD	108.81	108.71	-0.094
394	1e+13	NDD	110.71	110.69	-0.0134
395	1e+13	NDD	109.57	109.34	-0.232
571	1e+13	NDD	107.62	107.71	0.0919
649	0	CORRELATION	109.72	109.82	0.0909
662	0	CORRELATION	108.07	108.01	-0.0556
690	0	CORRELATION	107.35	107.29	-0.0669
708	0	CORRELATION	108.95	108.97	0.0147

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	107.35	108.53	109.72	1.0337	107.29	108.52	109.82	1.1045	-0.0669	-0.004225	0.0909	0.072971
1e+12	105.78	108.39	109.82	1.8622	105.73	108.41	109.88	1.9002	-0.0478	0.018175	0.0583	0.050842
5e+12	108.05	109	109.83	0.73285	108.14	109.08	109.77	0.68013	-0.062	0.0778	0.1422	0.095538
1e+13	107.62	109.18	110.71	1.2983	107.71	109.11	110.69	1.2478	-0.232	-0.061875	0.0919	0.13659

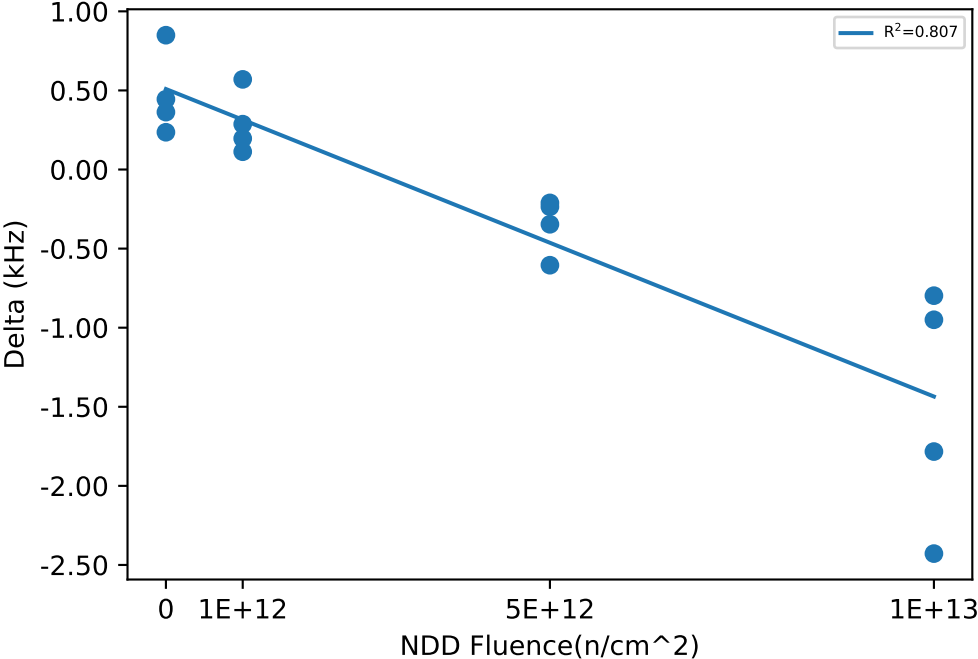
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	510.89	511	0.1125
266	1e+12	NDD	508	508.57	0.5699
267	1e+12	NDD	509.67	509.95	0.2867
288	1e+12	NDD	503.62	503.81	0.1961
348	5e+12	NDD	514.16	513.95	-0.2111
353	5e+12	NDD	510.02	509.79	-0.2353
370	5e+12	NDD	506.92	506.58	-0.3462
377	5e+12	NDD	509.63	509.02	-0.605
389	1e+13	NDD	509.25	508.45	-0.7975
394	1e+13	NDD	513.33	512.38	-0.9499
395	1e+13	NDD	509.69	507.27	-2.4282
571	1e+13	NDD	508.51	506.72	-1.7831
649	0	CORRELATION	512.89	513.74	0.8492
662	0	CORRELATION	507.39	507.63	0.2356
690	0	CORRELATION	506.72	507.09	0.3628
708	0	CORRELATION	509	509.45	0.4445

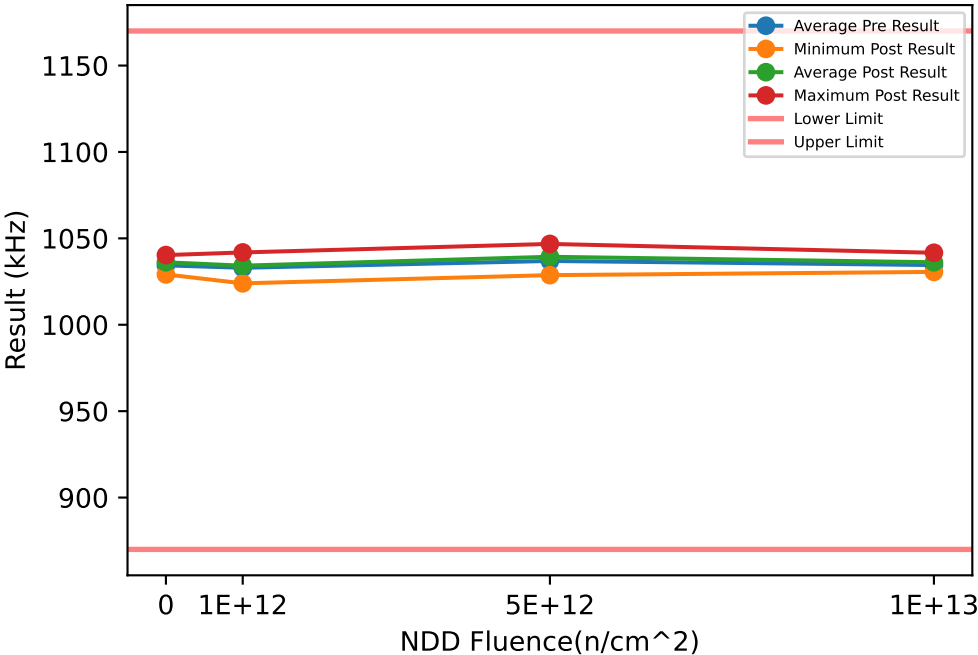
NDD vs Post - Pre Exposure Delta



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	506.72	509	512.89	2.7648	507.09	509.48	513.74	3.0187	0.2356	0.47303	0.8492	0.2651
1e+12	503.62	508.04	510.89	3.1775	503.81	508.33	511	3.1726	0.1125	0.2913	0.5699	0.19889
5e+12	506.92	510.18	514.16	2.9873	506.58	509.83	513.95	3.0658	-0.605	-0.3494	-0.2111	0.18027
1e+13	508.51	510.2	513.33	2.1475	506.72	508.71	512.38	2.5549	-2.4282	-1.4897	-0.7975	0.76101

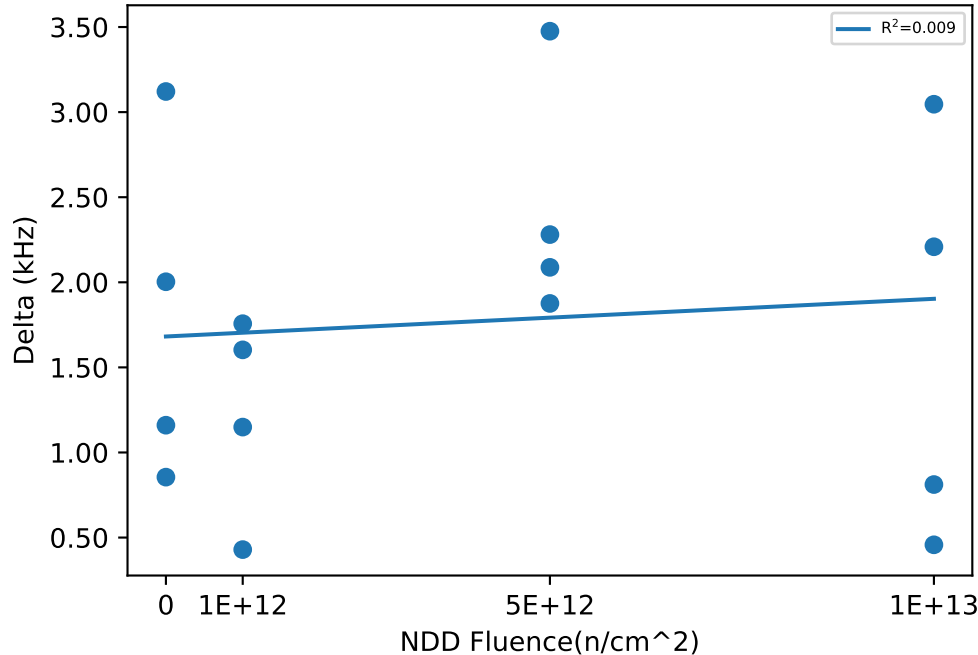
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1040.2	1041.8	1.603
266	1e+12	NDD	1033.3	1035	1.7568
267	1e+12	NDD	1034.8	1036	1.1492
288	1e+12	NDD	1023.5	1024	0.4293
348	5e+12	NDD	1038.6	1042.1	3.4755
353	5e+12	NDD	1037.5	1039.8	2.2804
370	5e+12	NDD	1026.6	1028.7	2.0879
377	5e+12	NDD	1044.9	1046.8	1.8758
389	1e+13	NDD	1030.1	1030.6	0.4575
394	1e+13	NDD	1038.6	1041.7	3.0463
395	1e+13	NDD	1035	1035.8	0.8116
571	1e+13	NDD	1034.4	1036.6	2.2088
649	0	CORRELATION	1037.2	1040.3	3.1211
662	0	CORRELATION	1035.2	1036.4	1.1603
690	0	CORRELATION	1028.3	1029.1	0.8551
708	0	CORRELATION	1036.8	1038.8	2.0032

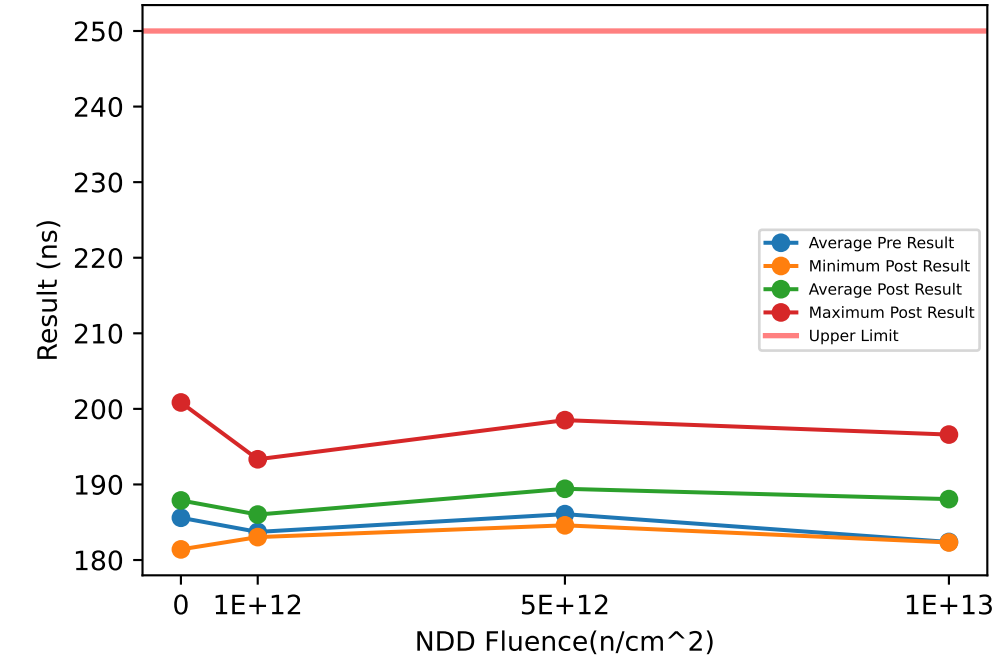
NDD vs Post - Pre Exposure Delta



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	1028.3	1034.4	1037.2	4.1452	1029.1	1036.1	1040.3	4.951	0.8551	1.7849	3.1211	1.0145
1e+12	1023.5	1033	1040.2	6.9619	1024	1034.2	1041.8	7.4614	0.4293	1.2346	1.7568	0.5956
5e+12	1026.6	1036.9	1044.9	7.5908	1028.7	1039.3	1046.8	7.6578	1.8758	2.4299	3.4755	0.71638
1e+13	1030.1	1034.5	1038.6	3.4784	1030.6	1036.2	1041.7	4.5326	0.4575	1.631	3.0463	1.2091

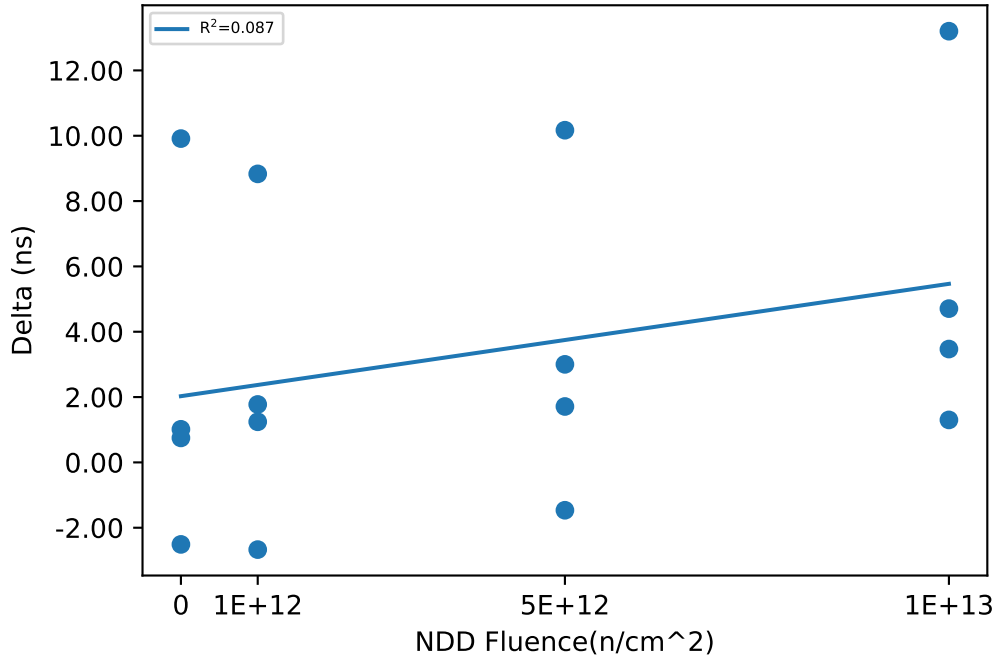
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	181.26	183.03	1.774
266	1e+12	NDD	183.11	184.35	1.2435
267	1e+12	NDD	184.5	193.33	8.8324
288	1e+12	NDD	186.01	183.34	-2.6693
348	5e+12	NDD	183.94	186.94	3.0016
353	5e+12	NDD	182.88	184.59	1.7119
370	5e+12	NDD	188.34	198.51	10.169
377	5e+12	NDD	189.12	187.66	-1.4649
389	1e+13	NDD	180.91	185.62	4.7078
394	1e+13	NDD	178.85	182.32	3.4702
395	1e+13	NDD	183.4	196.6	13.2
571	1e+13	NDD	186.39	187.69	1.3008
649	0	CORRELATION	182.14	182.89	0.75
662	0	CORRELATION	190.94	200.85	9.913
690	0	CORRELATION	183.92	181.41	-2.5102
708	0	CORRELATION	185.38	186.39	1.0134

NDD vs Post - Pre Exposure Delta

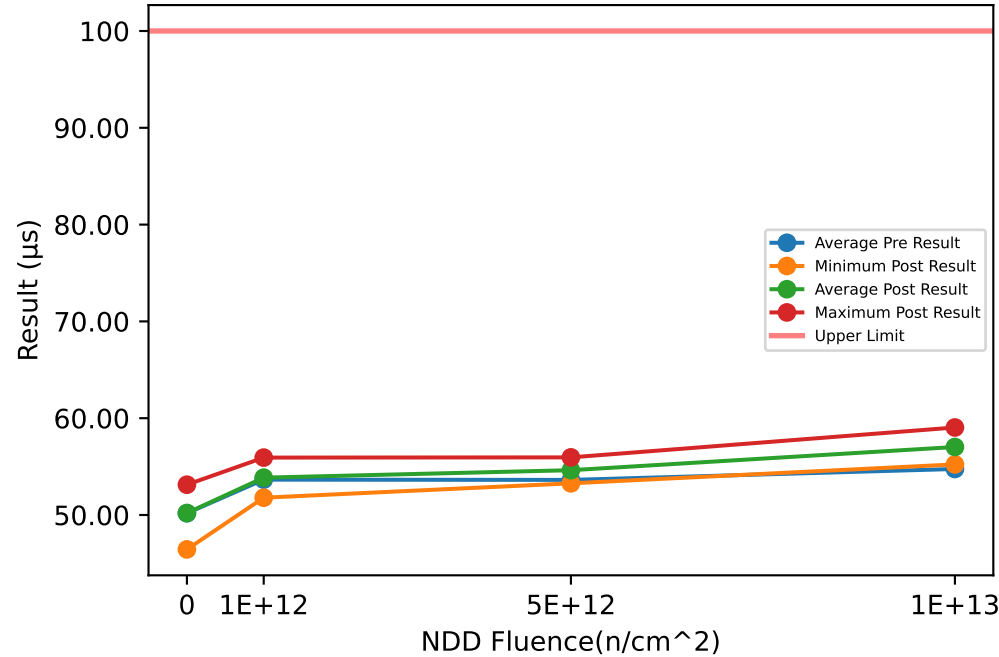


Test Statistics (ns)

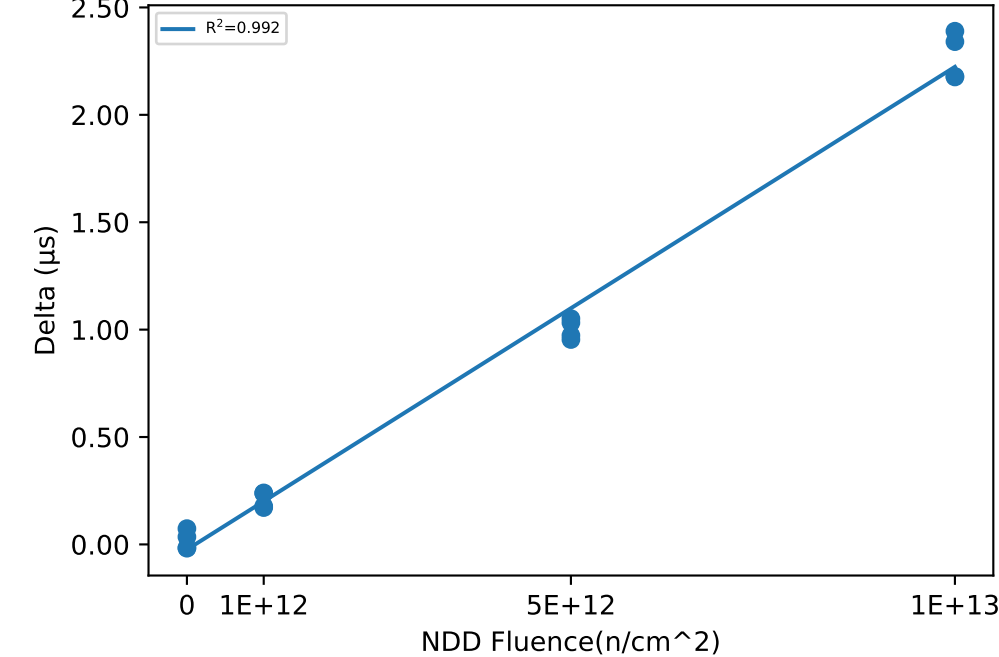
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	182.14	185.59	190.94	3.8005	181.41	187.88	200.85	8.8923	-2.5102	2.2916	9.913	5.3277
1e+12	181.26	183.72	186.01	2.0239	183.03	186.01	193.33	4.9095	-2.6693	2.2951	8.8324	4.7874
5e+12	182.88	186.07	189.12	3.1189	184.59	189.43	198.51	6.195	-1.4649	3.3545	10.169	4.9156
1e+13	178.85	182.39	186.39	3.252	182.32	188.06	196.6	6.1077	1.3008	5.6698	13.2	5.2141

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



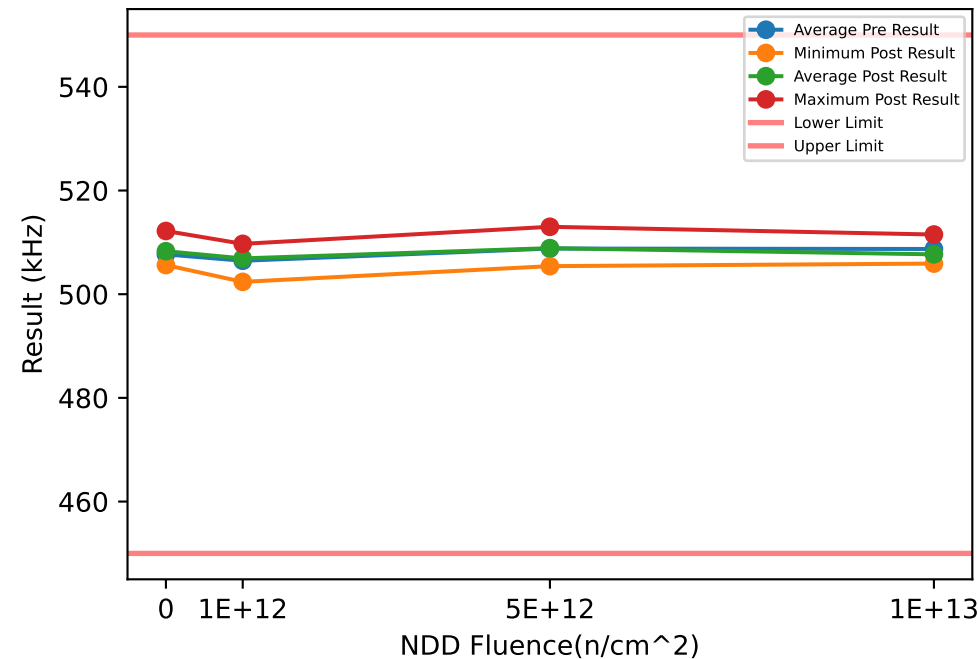
Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	55.692	55.93	0.2379
266	1e+12	NDD	51.547	51.787	0.2398
267	1e+12	NDD	54.64	54.818	0.1779
288	1e+12	NDD	52.726	52.897	0.1715
348	5e+12	NDD	52.299	53.272	0.9727
353	5e+12	NDD	54.92	55.952	1.0324
370	5e+12	NDD	53.492	54.446	0.9539
377	5e+12	NDD	53.792	54.844	1.0513
389	1e+13	NDD	56.65	59.039	2.3894
394	1e+13	NDD	55.115	57.294	2.1789
395	1e+13	NDD	53.05	55.226	2.1763
571	1e+13	NDD	54.195	56.535	2.3407
649	0	CORRELATION	48.66	48.695	0.0351
662	0	CORRELATION	53.148	53.13	-0.0176
690	0	CORRELATION	46.462	46.446	-0.0155
708	0	CORRELATION	52.465	52.538	0.0736

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	46.462	50.183	53.148	3.171	46.446	50.202	53.13	3.1839	-0.0176	0.0189	0.0736	0.043856
1e+12	51.547	53.651	55.692	1.8642	51.787	53.858	55.93	1.8643	0.1715	0.20678	0.2398	0.037137
5e+12	52.299	53.626	54.92	1.0772	53.272	54.628	55.952	1.1065	0.9539	1.0026	1.0513	0.046638
1e+13	53.05	54.752	56.65	1.5212	55.226	57.024	59.039	1.5922	2.1763	2.2713	2.3894	0.11004

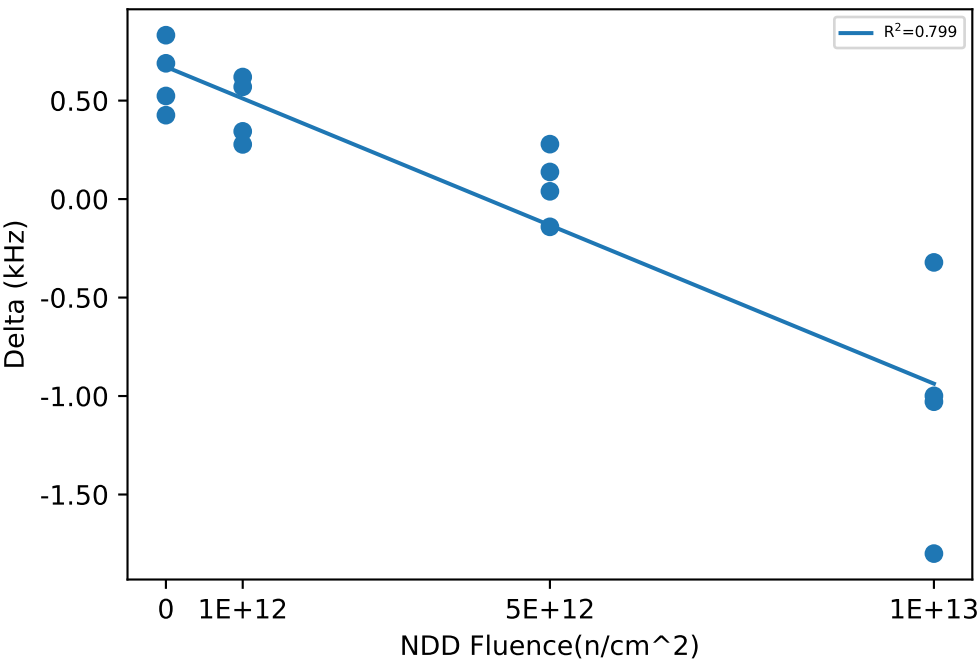
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	509.14	509.71	0.5699
266	1e+12	NDD	506.04	506.66	0.6197
267	1e+12	NDD	508.59	508.87	0.2776
288	1e+12	NDD	502.04	502.38	0.3439
348	5e+12	NDD	512.72	513	0.2789
353	5e+12	NDD	508.67	508.81	0.1377
370	5e+12	NDD	505.37	505.41	0.0394
377	5e+12	NDD	508.45	508.31	-0.1409
389	1e+13	NDD	507.66	506.64	-1.0288
394	1e+13	NDD	511.83	511.51	-0.3215
395	1e+13	NDD	508.49	506.69	-1.8
571	1e+13	NDD	506.9	505.9	-0.999
649	0	CORRELATION	511.36	512.19	0.8321
662	0	CORRELATION	506.4	506.82	0.426
690	0	CORRELATION	505.1	505.62	0.5235
708	0	CORRELATION	507.85	508.54	0.6894

NDD vs Post - Pre Exposure Delta

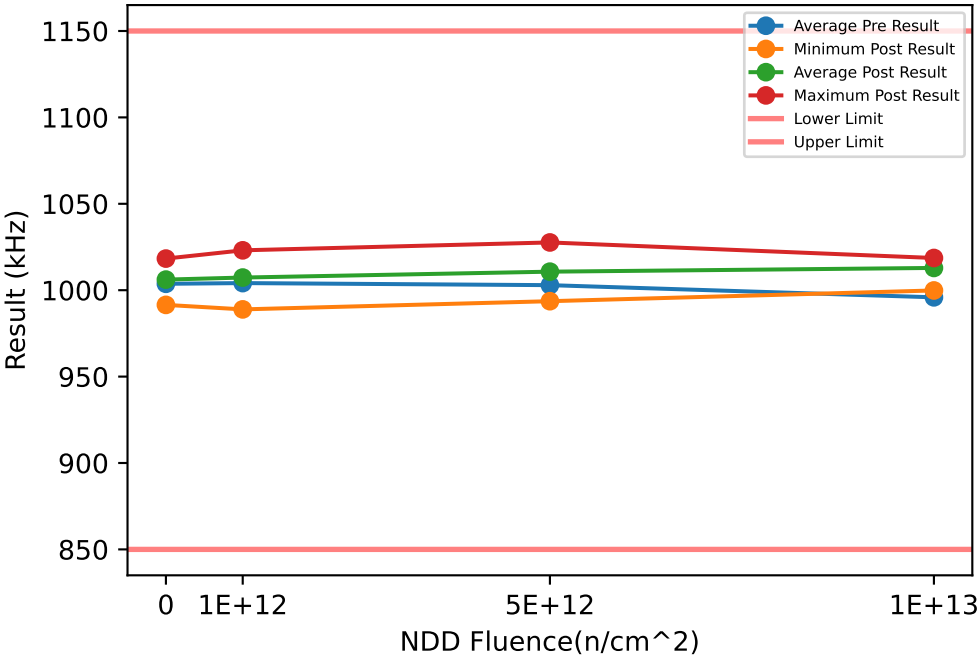


Test Statistics (kHz)

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	505.1	507.68	511.36	2.7024	505.62	508.29	512.19	2.8628	0.426	0.61775	0.8321	0.17957
1e+12	502.04	506.45	509.14	3.2384	502.38	506.9	509.71	3.2787	0.2776	0.45278	0.6197	0.16745
5e+12	505.37	508.8	512.72	3.0162	505.41	508.88	513	3.1286	-0.1409	0.078775	0.2789	0.17638
1e+13	506.9	508.72	511.83	2.1728	505.9	507.69	511.51	2.5763	-1.8	-1.0373	-0.3215	0.60432

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

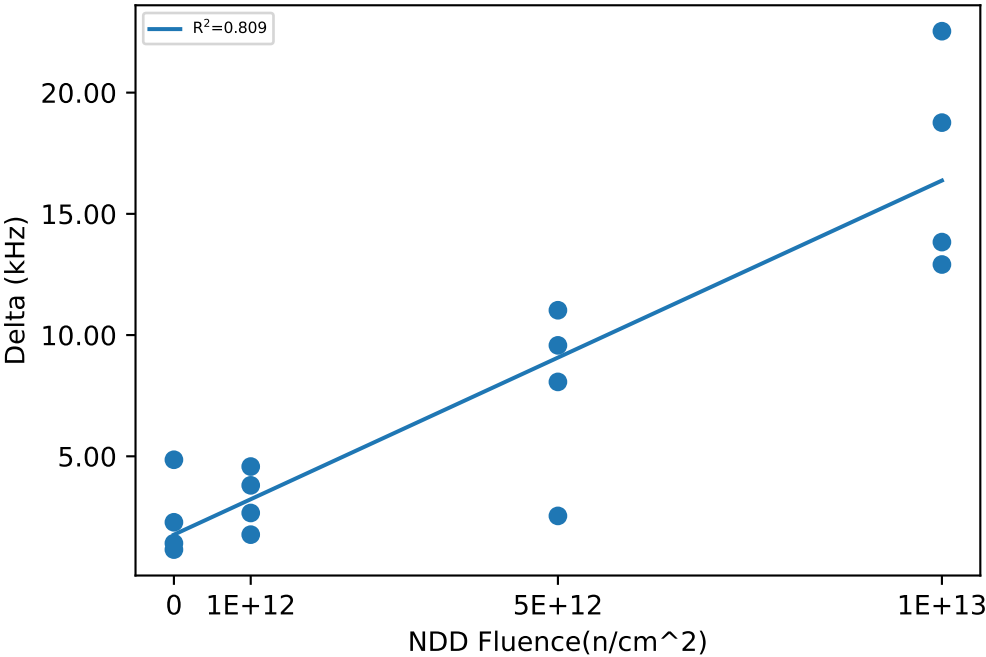
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1020.4	1023.1	2.6629
266	1e+12	NDD	1004.2	1008	3.8023
267	1e+12	NDD	1004.8	1009.3	4.5779
288	1e+12	NDD	987.13	988.89	1.7687
348	5e+12	NDD	992.9	1002.5	9.5754
353	5e+12	NDD	1008.1	1019.1	11.024
370	5e+12	NDD	985.57	993.64	8.0687
377	5e+12	NDD	1025.1	1027.6	2.5416
389	1e+13	NDD	981.09	999.85	18.763
394	1e+13	NDD	1004.6	1017.5	12.911
395	1e+13	NDD	1004.8	1018.6	13.835
571	1e+13	NDD	992.98	1015.5	22.534
649	0	CORRELATION	995.27	1000.1	4.8578
662	0	CORRELATION	1016	1018.3	2.279
690	0	CORRELATION	990.35	991.5	1.1522
708	0	CORRELATION	1013.2	1014.6	1.4149

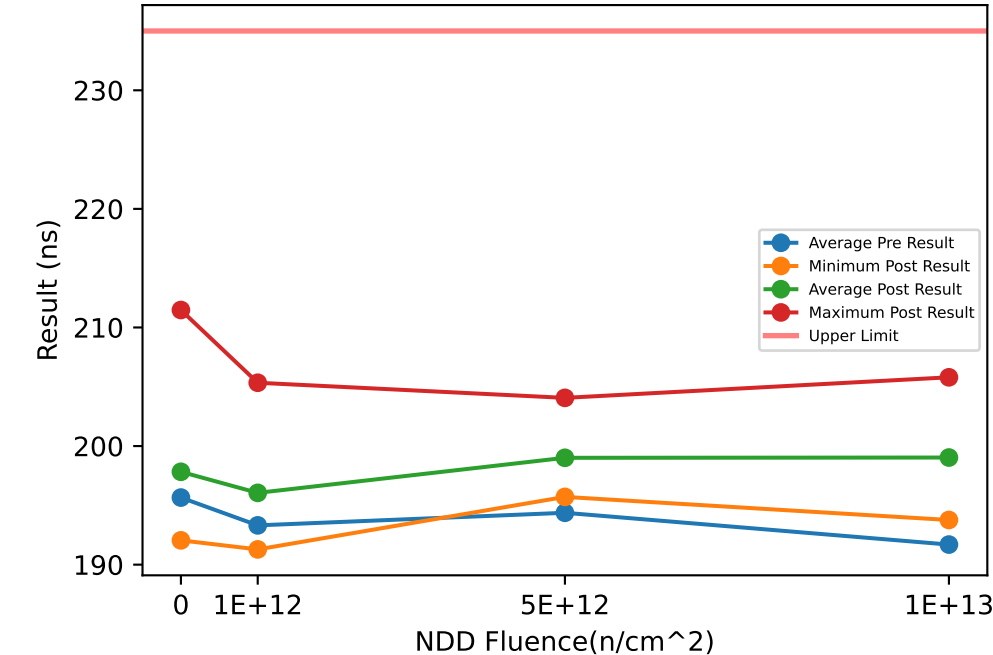
NDD vs Post - Pre Exposure Delta



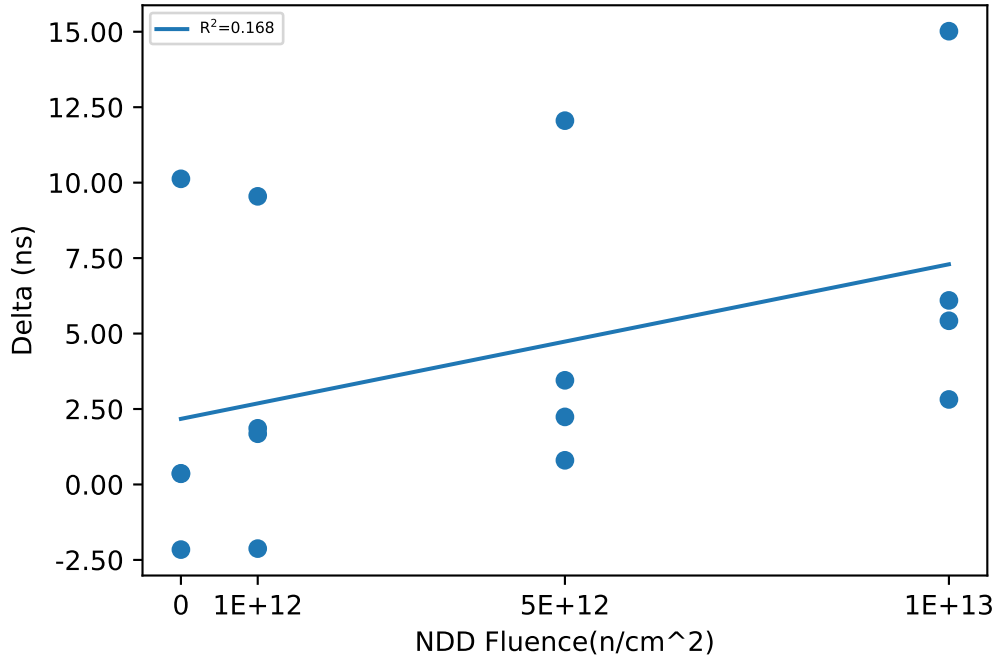
Test Statistics (kHz)

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	990.35	1003.7	1016	12.797	991.5	1006.1	1018.3	12.518	1.1522	2.426	4.8578	1.6912
1e+12	987.13	1004.1	1020.4	13.597	988.89	1007.3	1023.1	14.05	1.7687	3.2029	4.5779	1.2381
5e+12	985.57	1002.9	1025.1	17.514	993.64	1010.7	1027.6	15.459	2.5416	7.8025	11.024	3.709
1e+13	981.09	995.87	1004.8	11.305	999.85	1012.9	1018.6	8.7855	12.911	17.011	22.534	4.4894

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 235.0 (ns))

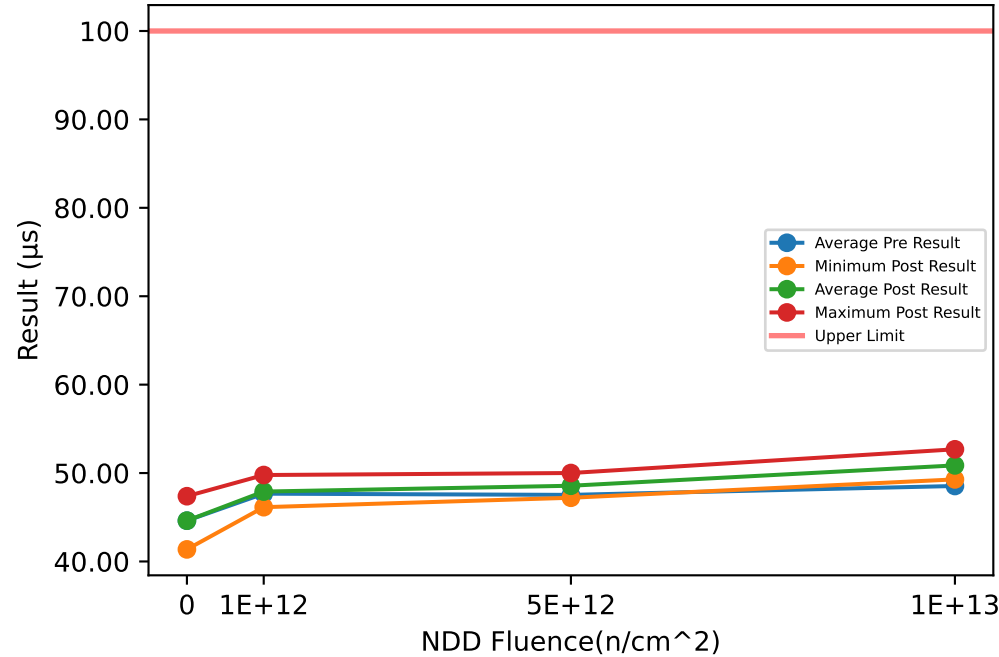
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	190.04	191.9	1.8604
266	1e+12	NDD	194.01	195.69	1.6808
267	1e+12	NDD	195.79	205.34	9.5465
288	1e+12	NDD	193.41	191.29	-2.1251
348	5e+12	NDD	194.2	196.44	2.2387
353	5e+12	NDD	192.26	195.71	3.4511
370	5e+12	NDD	192.01	204.06	12.054
377	5e+12	NDD	199.02	199.82	0.8006
389	1e+13	NDD	190.55	196.64	6.0982
394	1e+13	NDD	188.34	193.77	5.4236
395	1e+13	NDD	190.78	205.8	15.018
571	1e+13	NDD	197.11	199.92	2.8168
649	0	CORRELATION	191.7	192.05	0.3541
662	0	CORRELATION	201.35	211.47	10.127
690	0	CORRELATION	195.65	193.49	-2.158
708	0	CORRELATION	193.94	194.31	0.3691

Test Statistics (ns)

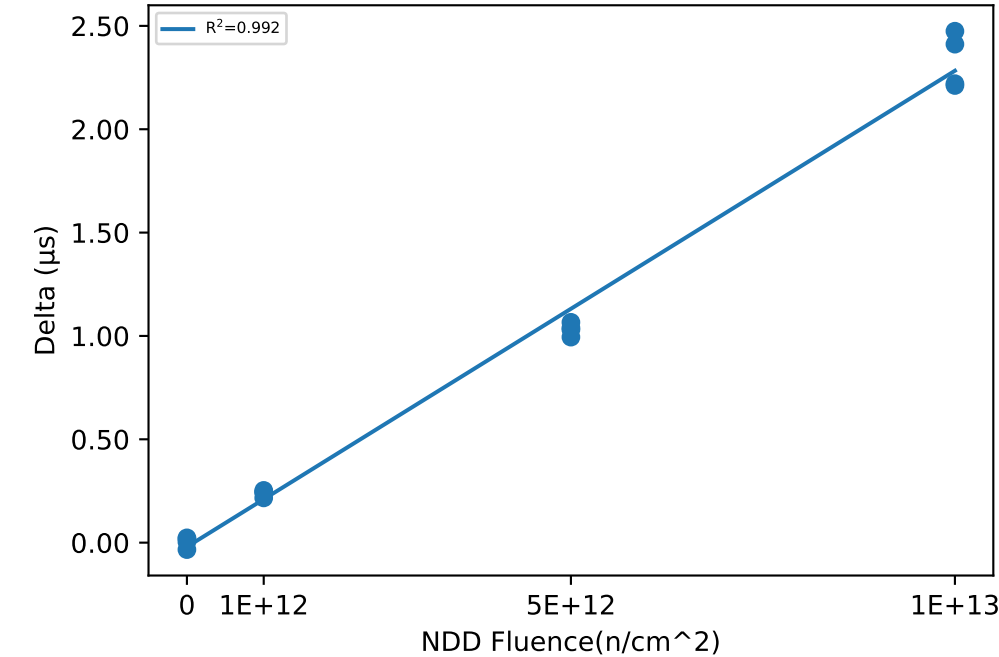
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	191.7	195.66	201.35	4.1237	192.05	197.83	211.47	9.1427	-2.158	2.173	10.127	5.4339
1e+12	190.04	193.31	195.79	2.4045	191.29	196.05	205.34	6.4889	-2.1251	2.7407	9.5465	4.8953
5e+12	192.01	194.37	199.02	3.2501	195.71	199.01	204.06	3.8166	0.8006	4.6361	12.054	5.0626
1e+13	188.34	191.69	197.11	3.7716	193.77	199.03	205.8	5.1635	2.8168	7.3391	15.018	5.3112

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta

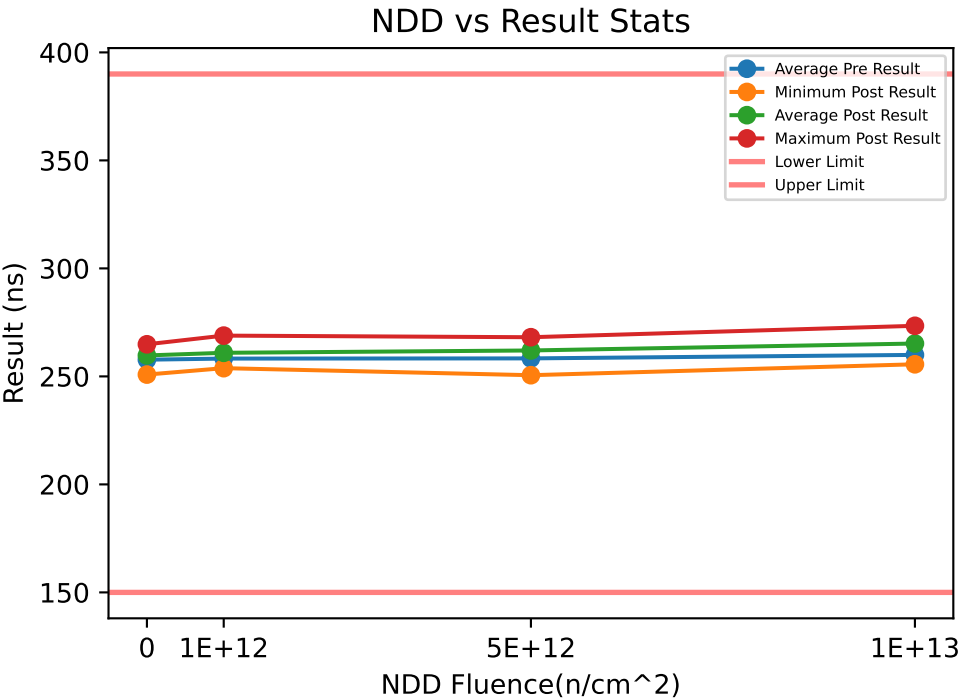


Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	49.532	49.777	0.2453
266	1e+12	NDD	45.886	46.139	0.2528
267	1e+12	NDD	48.529	48.77	0.2418
288	1e+12	NDD	46.721	46.937	0.2165
348	5e+12	NDD	46.21	47.204	0.9943
353	5e+12	NDD	48.938	50.004	1.066
370	5e+12	NDD	47.168	48.207	1.0392
377	5e+12	NDD	47.81	48.84	1.0303
389	1e+13	NDD	50.212	52.687	2.4743
394	1e+13	NDD	48.946	51.158	2.2116
395	1e+13	NDD	47.062	49.283	2.2205
571	1e+13	NDD	47.924	50.335	2.4115
649	0	CORRELATION	43.201	43.168	-0.0336
662	0	CORRELATION	47.357	47.38	0.0232
690	0	CORRELATION	41.346	41.365	0.0185
708	0	CORRELATION	46.541	46.545	0.0038

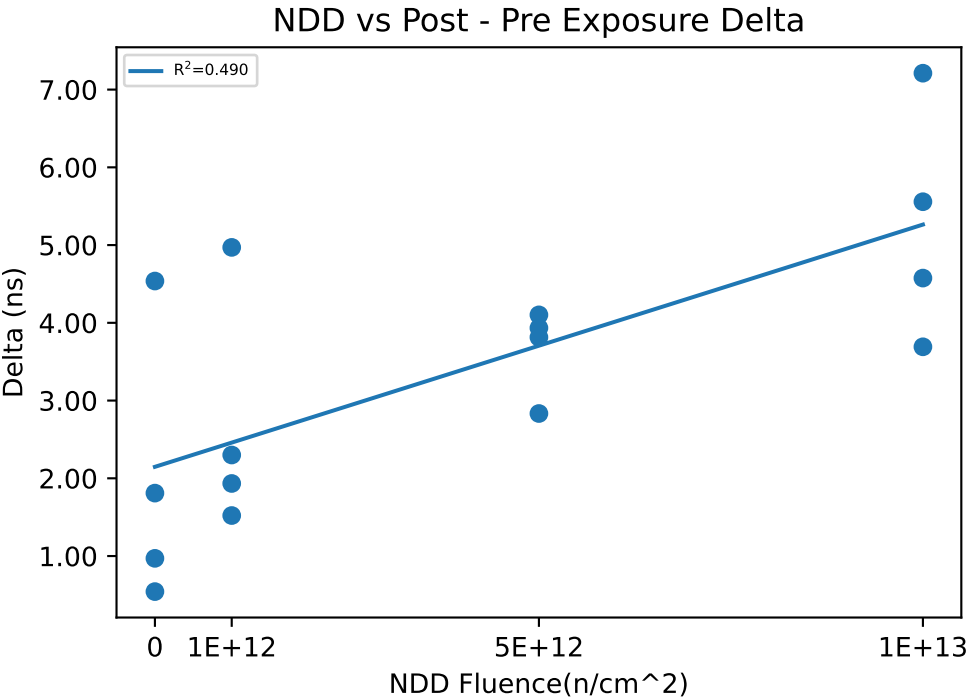
Test Statistics (µs)

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	41.346	44.611	47.357	2.8233	41.365	44.614	47.38	2.8302	-0.0336	0.002975	0.0232	0.025745
1e+12	45.886	47.667	49.532	1.6619	46.139	47.906	49.777	1.6642	0.2165	0.2391	0.2528	0.01575
5e+12	46.21	47.531	48.938	1.145	47.204	48.564	50.004	1.1726	0.9943	1.0324	1.066	0.029615
1e+13	47.062	48.536	50.212	1.3572	49.283	50.866	52.687	1.4363	2.2116	2.3295	2.4743	0.13351



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

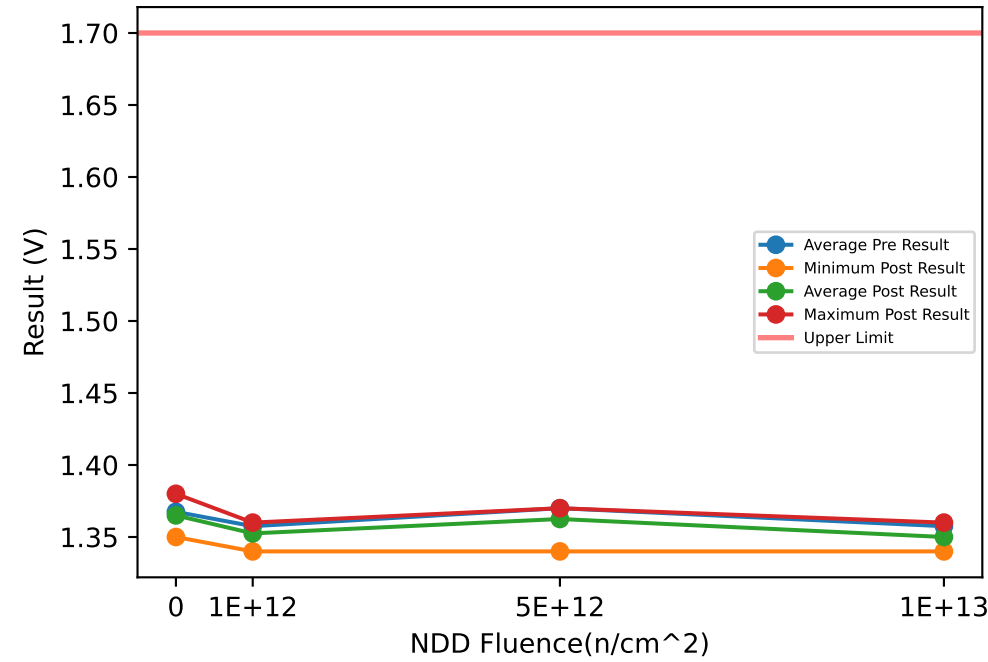
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	251.52	253.81	2.2997
266	1e+12	NDD	267.36	268.88	1.5212
267	1e+12	NDD	251.83	256.8	4.9703
288	1e+12	NDD	262.27	264.21	1.9336
348	5e+12	NDD	246.62	250.55	3.9339
353	5e+12	NDD	265.3	268.14	2.8335
370	5e+12	NDD	257.69	261.79	4.1023
377	5e+12	NDD	263.73	267.54	3.8146
389	1e+13	NDD	251.03	255.61	4.5755
394	1e+13	NDD	269.73	273.42	3.6915
395	1e+13	NDD	255.67	262.88	7.2109
571	1e+13	NDD	263.39	268.95	5.5577
649	0	CORRELATION	264.32	264.86	0.5427
662	0	CORRELATION	255.1	259.64	4.5375
690	0	CORRELATION	261.66	263.47	1.8095
708	0	CORRELATION	249.87	250.84	0.9705



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	249.87	257.74	264.32	6.5168	250.84	259.7	264.86	6.3038	0.5427	1.965	4.5375	1.7939
1e+12	251.52	258.24	267.36	7.8682	253.81	260.93	268.88	6.8707	1.5212	2.6812	4.9703	1.5588
5e+12	246.62	258.33	265.3	8.4709	250.55	262.01	268.14	8.1528	2.8335	3.6711	4.1023	0.57072
1e+13	251.03	259.96	269.73	8.2725	255.61	265.21	273.42	7.7249	3.6915	5.2589	7.2109	1.5081

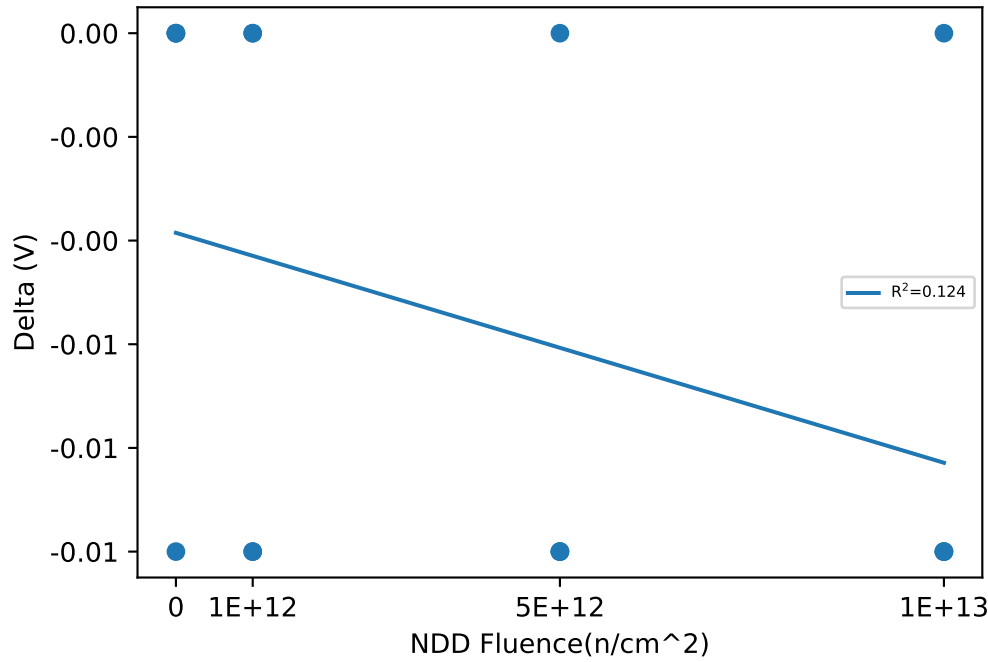
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

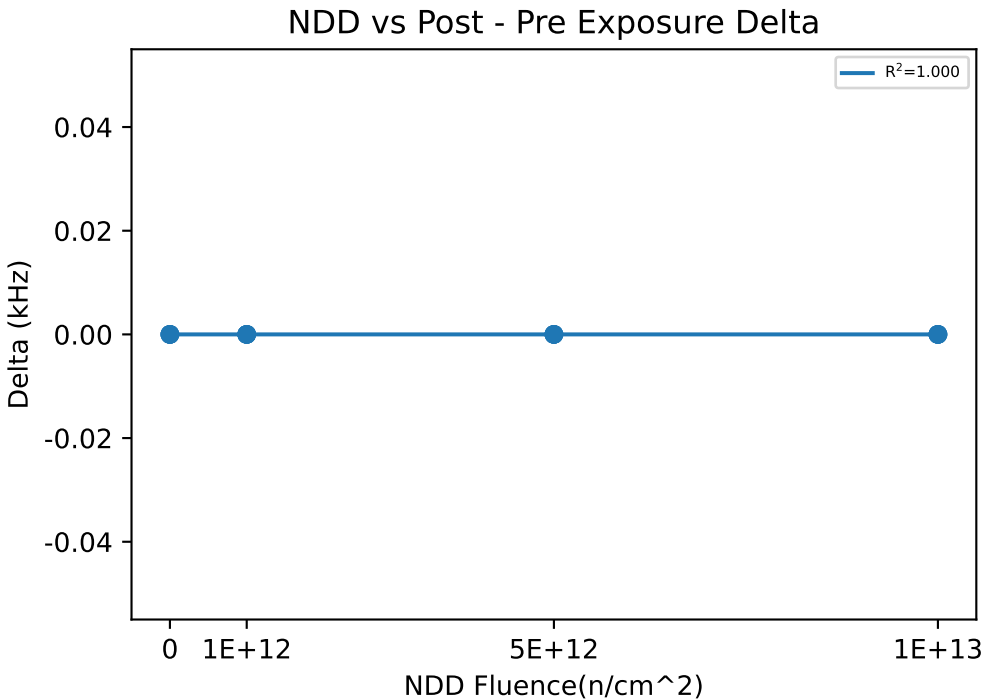
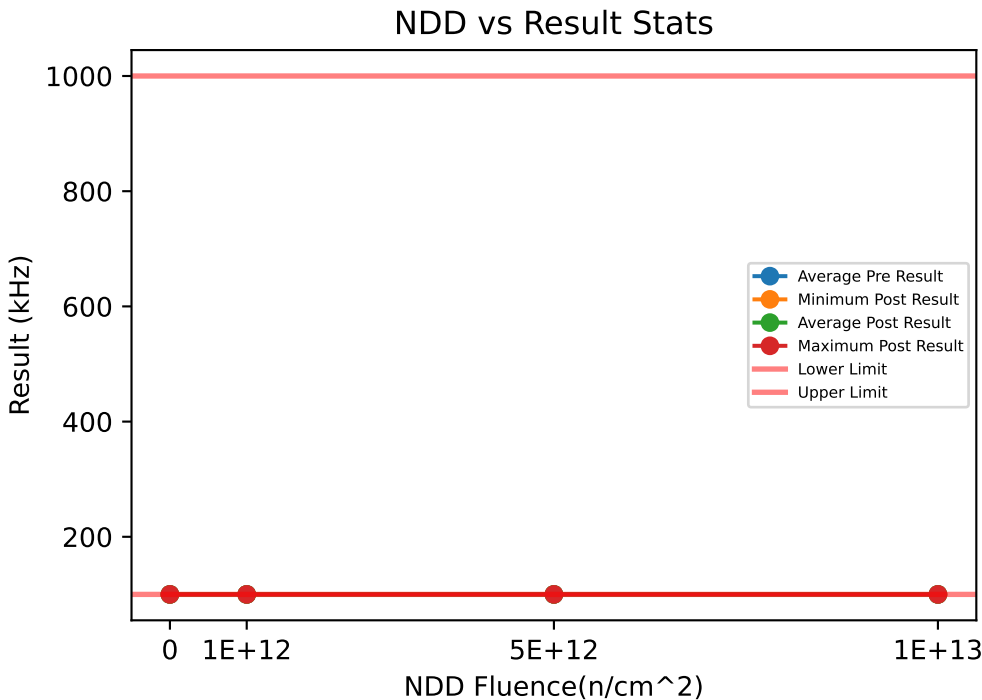
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.36	1.35	-0.01
266	1e+12	NDD	1.35	1.34	-0.01
267	1e+12	NDD	1.36	1.36	0
288	1e+12	NDD	1.36	1.36	0
348	5e+12	NDD	1.38	1.37	-0.01
353	5e+12	NDD	1.38	1.37	-0.01
370	5e+12	NDD	1.37	1.37	0
377	5e+12	NDD	1.35	1.34	-0.01
389	1e+13	NDD	1.35	1.34	-0.01
394	1e+13	NDD	1.36	1.35	-0.01
395	1e+13	NDD	1.37	1.36	-0.01
571	1e+13	NDD	1.35	1.35	0
649	0	CORRELATION	1.38	1.38	0
662	0	CORRELATION	1.37	1.36	-0.01
690	0	CORRELATION	1.35	1.35	0
708	0	CORRELATION	1.37	1.37	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	1.35	1.3675	1.38	0.012583	1.35	1.365	1.38	0.01291	-0.01	-0.0025	0	0.005
1e+12	1.35	1.3575	1.36	0.005	1.34	1.3525	1.36	0.0095743	-0.01	-0.005	0	0.0057735
5e+12	1.35	1.37	1.38	0.014142	1.34	1.3625	1.37	0.015	-0.01	-0.0075	0	0.005
1e+13	1.35	1.3575	1.37	0.0095743	1.34	1.35	1.36	0.008165	-0.01	-0.0075	0	0.005



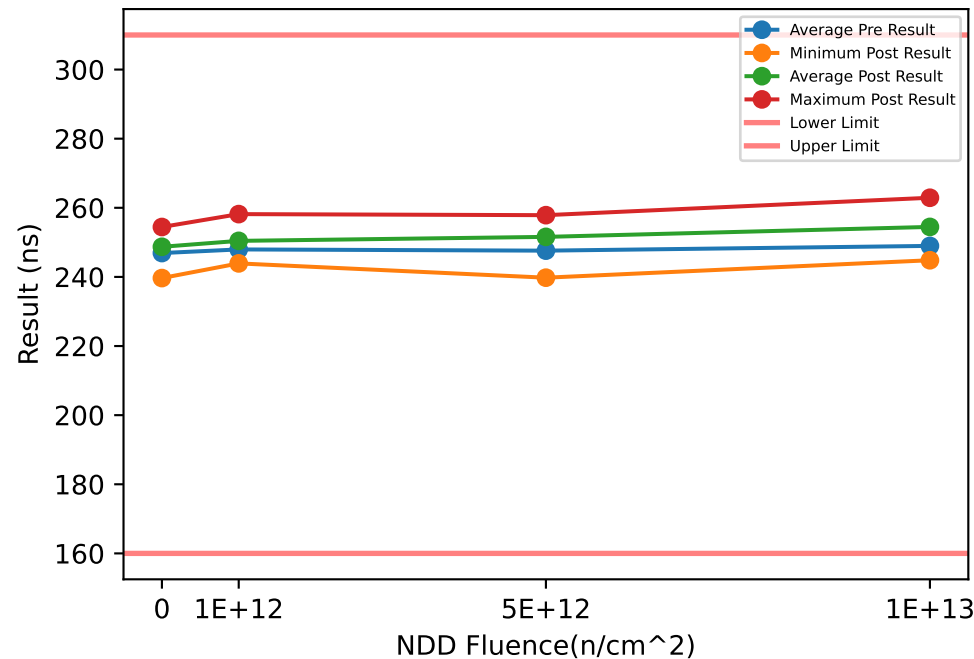
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	100	100	0
266	1e+12	NDD	100	100	0
267	1e+12	NDD	100	100	0
288	1e+12	NDD	100	100	0
348	5e+12	NDD	100	100	0
353	5e+12	NDD	100	100	0
370	5e+12	NDD	100	100	0
377	5e+12	NDD	100	100	0
389	1e+13	NDD	100	100	0
394	1e+13	NDD	100	100	0
395	1e+13	NDD	100	100	0
571	1e+13	NDD	100	100	0
649	0	CORRELATION	100	100	0
662	0	CORRELATION	100	100	0
690	0	CORRELATION	100	100	0
708	0	CORRELATION	100	100	0

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

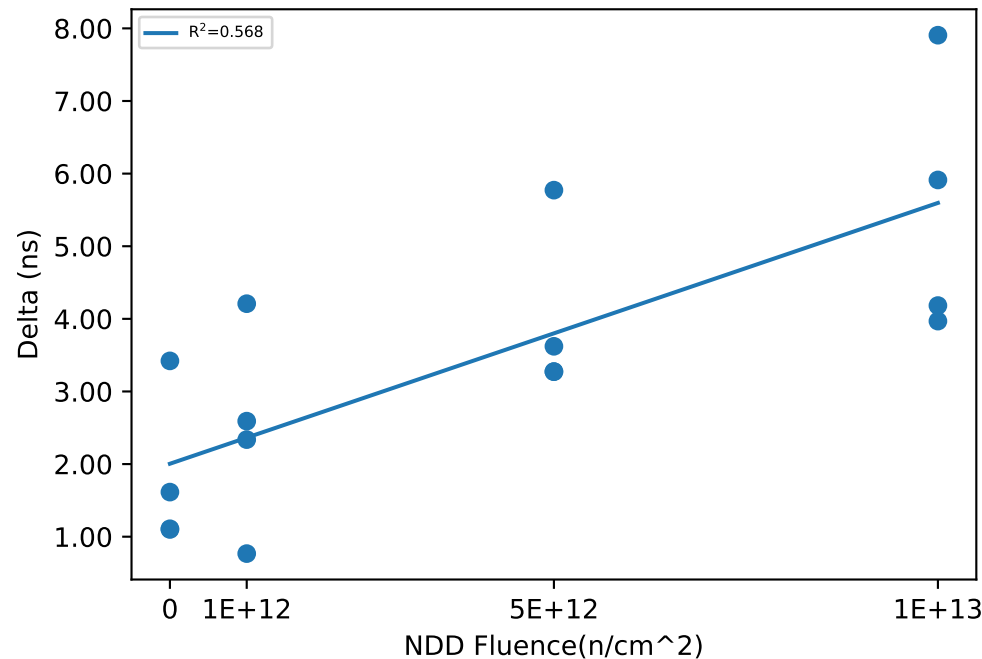
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	241.57	243.91	2.3371
266	1e+12	NDD	257.41	258.17	0.7673
267	1e+12	NDD	241.39	245.59	4.2087
288	1e+12	NDD	251.45	254.04	2.5912
348	5e+12	NDD	236.51	239.78	3.2726
353	5e+12	NDD	254.59	257.87	3.2738
370	5e+12	NDD	245.51	251.28	5.7723
377	5e+12	NDD	253.79	257.42	3.6219
389	1e+13	NDD	240.64	244.82	4.183
394	1e+13	NDD	258.94	262.9	3.9689
395	1e+13	NDD	243.91	251.82	7.9061
571	1e+13	NDD	252.41	258.33	5.9127
649	0	CORRELATION	253.34	254.44	1.0998
662	0	CORRELATION	244.8	248.22	3.421
690	0	CORRELATION	250.92	252.53	1.6142
708	0	CORRELATION	238.56	239.67	1.1091

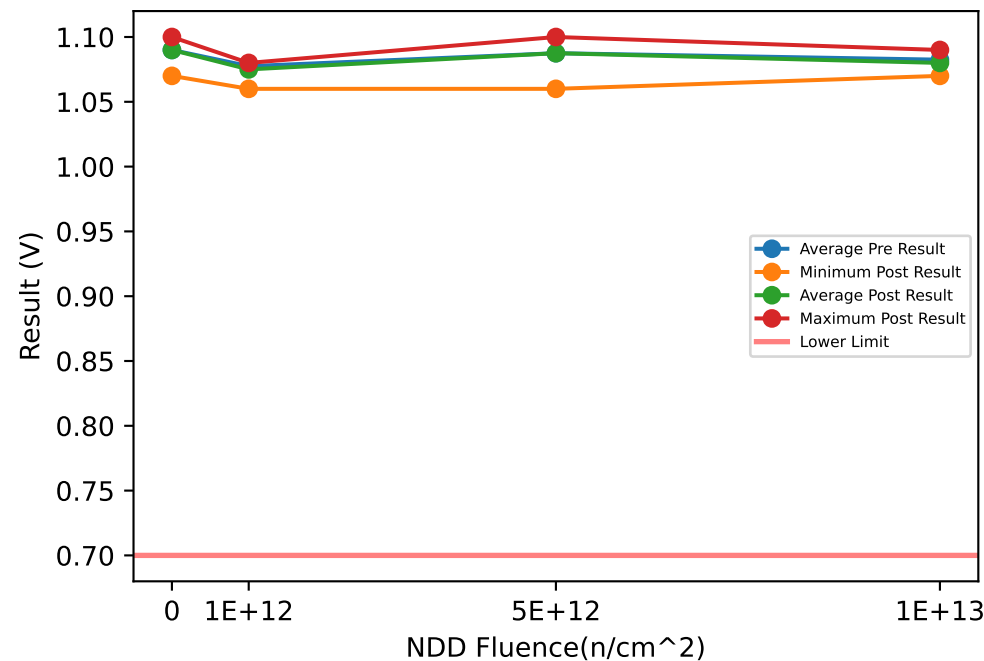
NDD vs Post - Pre Exposure Delta



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	238.56	246.91	253.34	6.6243	239.67	248.72	254.44	6.5697	1.0998	1.811	3.421	1.0999
1e+12	241.39	247.95	257.41	7.8612	243.91	250.43	258.17	6.8035	0.7673	2.4761	4.2087	1.4088
5e+12	236.51	247.6	254.59	8.4605	239.78	251.59	257.87	8.4255	3.2726	3.9851	5.7723	1.2027
1e+13	240.64	248.97	258.94	8.2898	244.82	254.47	262.9	7.8765	3.9689	5.4927	7.9061	1.8292

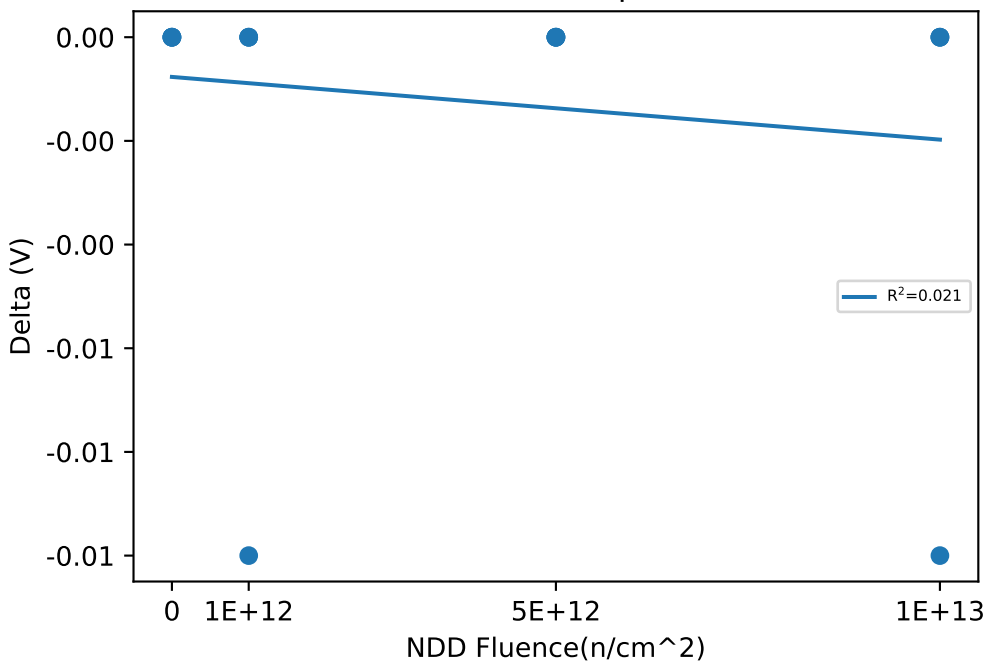
NDD vs Result Stats



Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.08	1.08	0
266	1e+12	NDD	1.07	1.06	-0.01
267	1e+12	NDD	1.08	1.08	0
288	1e+12	NDD	1.08	1.08	0
348	5e+12	NDD	1.1	1.1	0
353	5e+12	NDD	1.1	1.1	0
370	5e+12	NDD	1.09	1.09	0
377	5e+12	NDD	1.06	1.06	0
389	1e+13	NDD	1.07	1.07	0
394	1e+13	NDD	1.08	1.08	0
395	1e+13	NDD	1.1	1.09	-0.01
571	1e+13	NDD	1.08	1.08	0
649	0	CORRELATION	1.1	1.1	0
662	0	CORRELATION	1.09	1.09	0
690	0	CORRELATION	1.07	1.07	0
708	0	CORRELATION	1.1	1.1	0

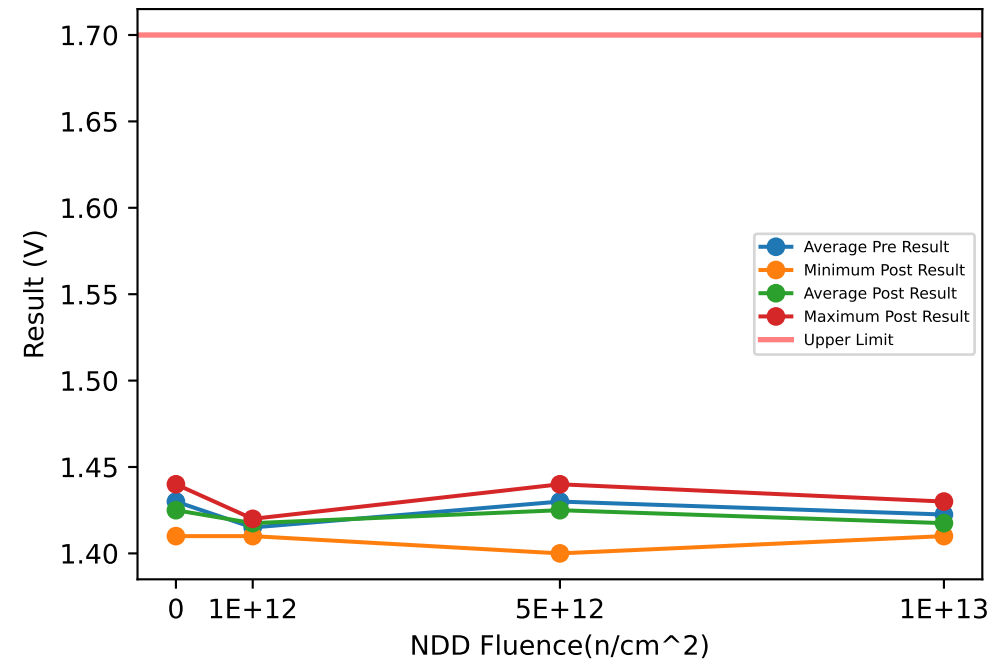
NDD vs Post - Pre Exposure Delta



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	1.07	1.09	1.1	0.014142	1.07	1.09	1.1	0.014142	0	0	0	0
1e+12	1.07	1.0775	1.08	0.005	1.06	1.075	1.08	0.01	-0.01	-0.0025	0	0.005
5e+12	1.06	1.0875	1.1	0.01893	1.06	1.0875	1.1	0.01893	0	0	0	0
1e+13	1.07	1.0825	1.1	0.012583	1.07	1.08	1.09	0.008165	-0.01	-0.0025	0	0.005

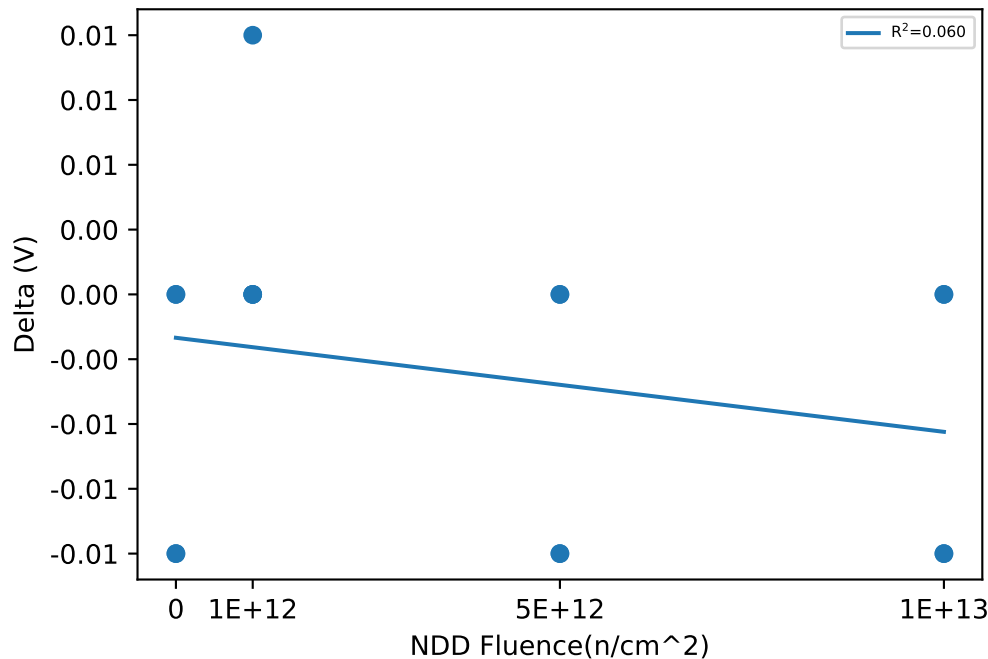
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

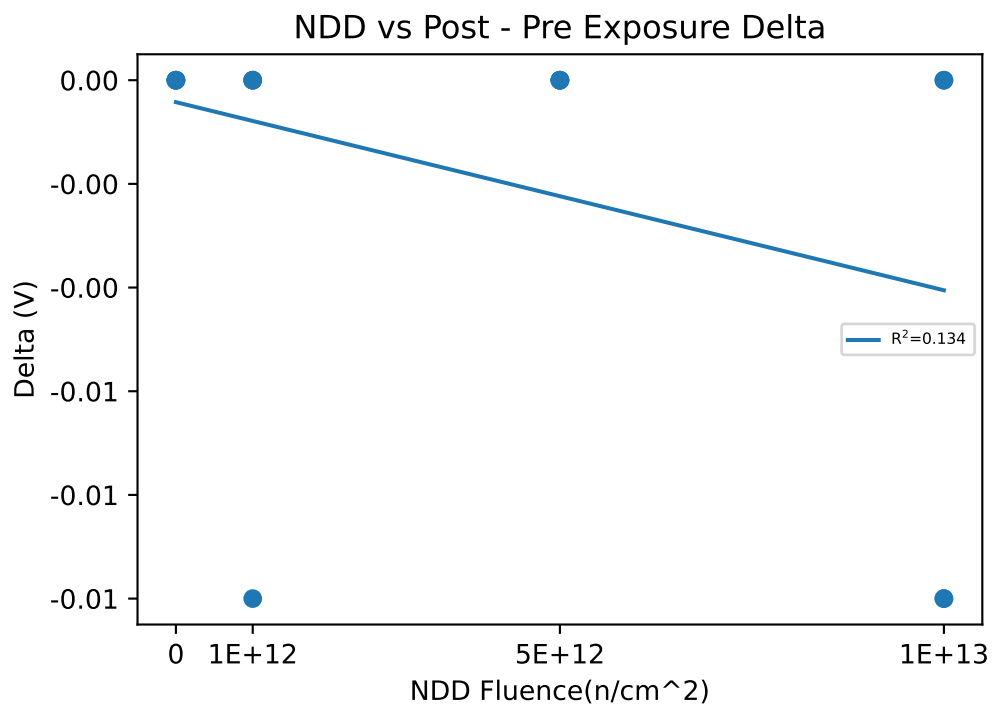
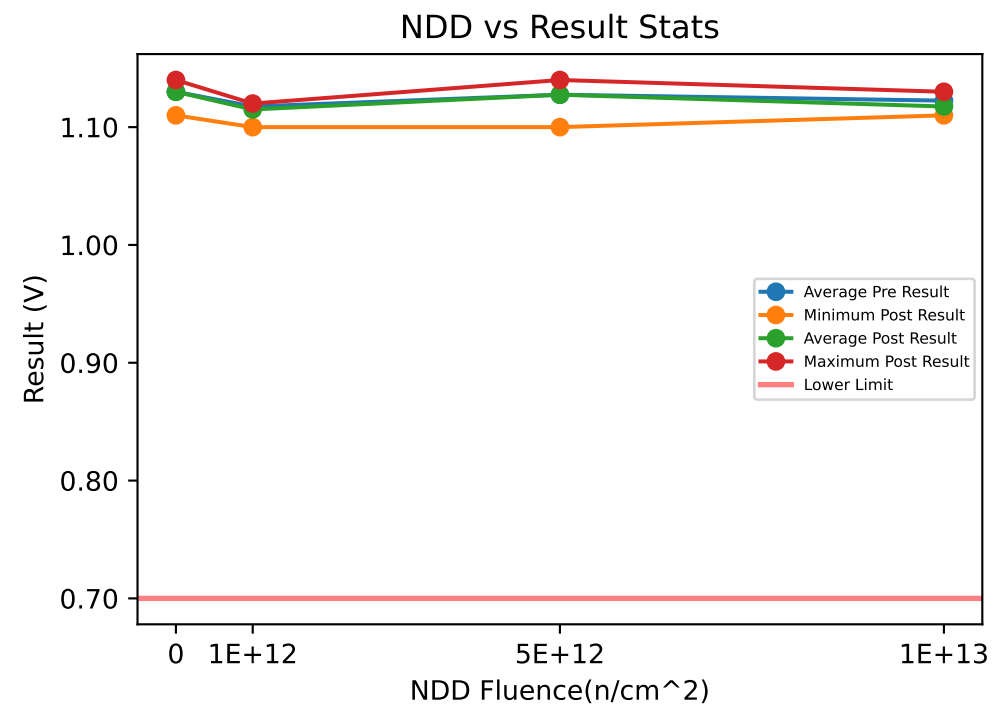
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.42	1.42	0
266	1e+12	NDD	1.4	1.41	0.01
267	1e+12	NDD	1.42	1.42	0
288	1e+12	NDD	1.42	1.42	0
348	5e+12	NDD	1.44	1.44	0
353	5e+12	NDD	1.44	1.43	-0.01
370	5e+12	NDD	1.44	1.43	-0.01
377	5e+12	NDD	1.4	1.4	0
389	1e+13	NDD	1.41	1.41	0
394	1e+13	NDD	1.42	1.42	0
395	1e+13	NDD	1.44	1.43	-0.01
571	1e+13	NDD	1.42	1.41	-0.01
649	0	CORRELATION	1.45	1.44	-0.01
662	0	CORRELATION	1.42	1.42	0
690	0	CORRELATION	1.41	1.41	0
708	0	CORRELATION	1.44	1.43	-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	1.41	1.43	1.45	0.018257	1.41	1.425	1.44	0.01291	-0.01	-0.005	0	0.0057735
1e+12	1.4	1.415	1.42	0.01	1.41	1.4175	1.42	0.005	0	0.0025	0.01	0.005
5e+12	1.4	1.43	1.44	0.02	1.4	1.425	1.44	0.017321	-0.01	-0.005	0	0.0057735
1e+13	1.41	1.4225	1.44	0.012583	1.41	1.4175	1.43	0.0095743	-0.01	-0.005	0	0.0057735



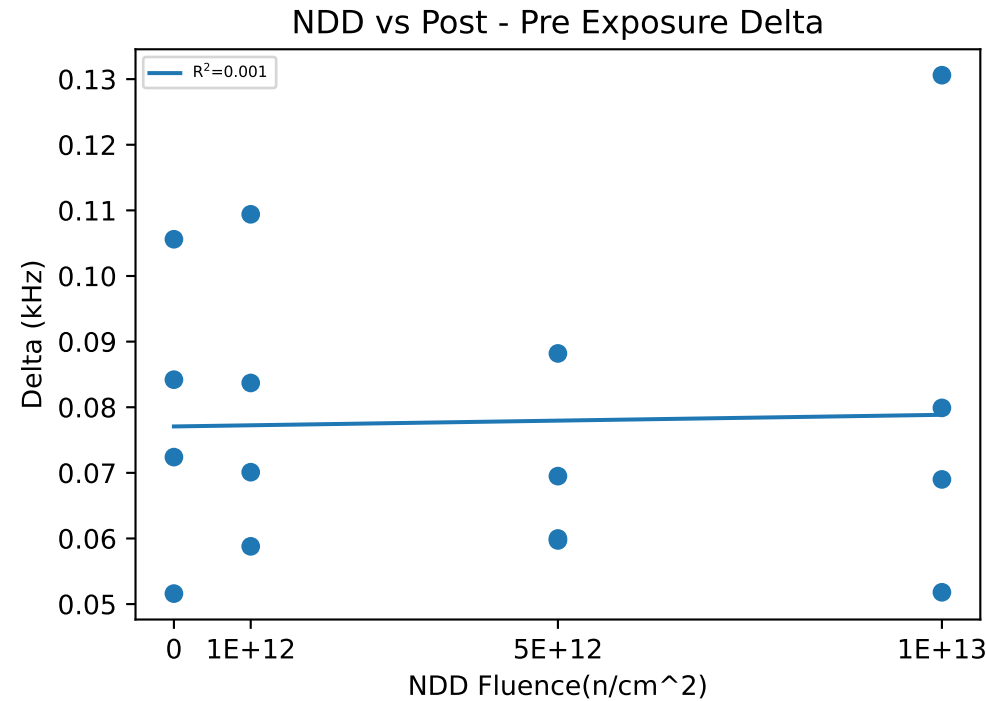
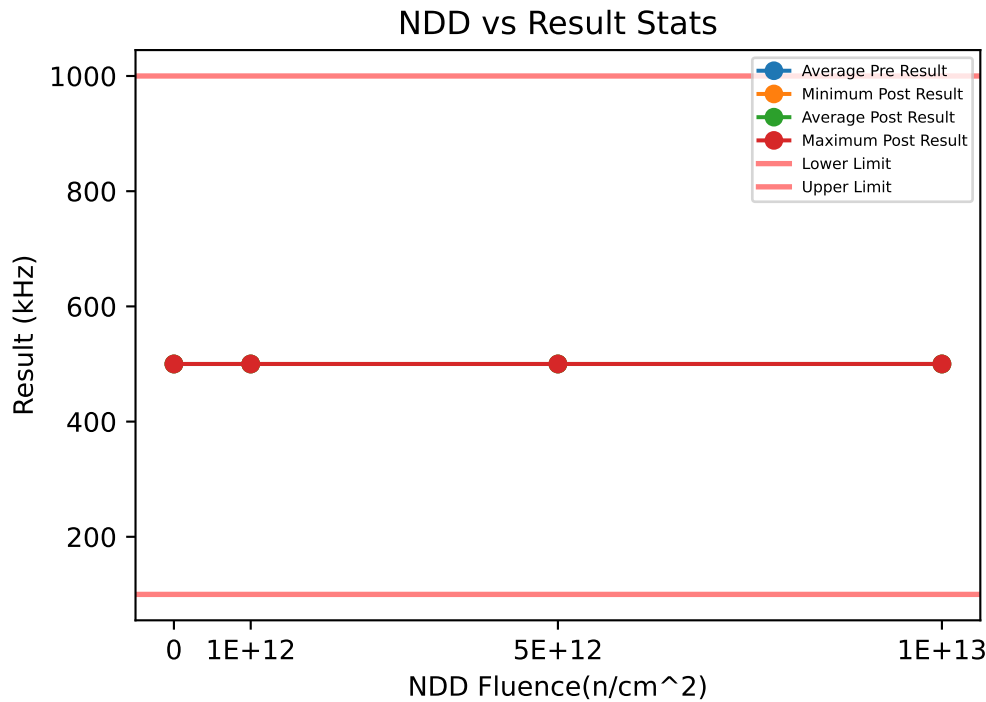
Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.12	1.12	0
266	1e+12	NDD	1.11	1.1	-0.01
267	1e+12	NDD	1.12	1.12	0
288	1e+12	NDD	1.12	1.12	0
348	5e+12	NDD	1.14	1.14	0
353	5e+12	NDD	1.14	1.14	0
370	5e+12	NDD	1.13	1.13	0
377	5e+12	NDD	1.1	1.1	0
389	1e+13	NDD	1.11	1.11	0
394	1e+13	NDD	1.12	1.11	-0.01
395	1e+13	NDD	1.14	1.13	-0.01
571	1e+13	NDD	1.12	1.12	0
649	0	CORRELATION	1.14	1.14	0
662	0	CORRELATION	1.13	1.13	0
690	0	CORRELATION	1.11	1.11	0
708	0	CORRELATION	1.14	1.14	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	1.11	1.13	1.14	0.014142	1.11	1.13	1.14	0.014142	0	0	0	0
1e+12	1.11	1.1175	1.12	0.005	1.1	1.115	1.12	0.01	-0.01	-0.0025	0	0.005
5e+12	1.1	1.1275	1.14	0.01893	1.1	1.1275	1.14	0.01893	0	0	0	0
1e+13	1.11	1.1225	1.14	0.012583	1.11	1.1175	1.13	0.0095743	-0.01	-0.005	0	0.0057735

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

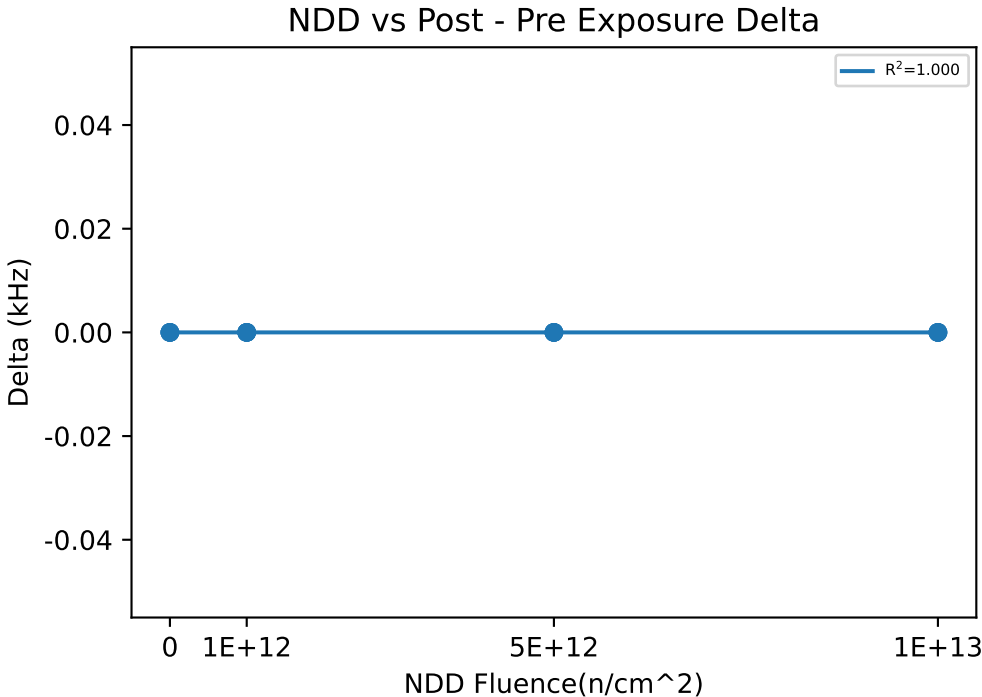
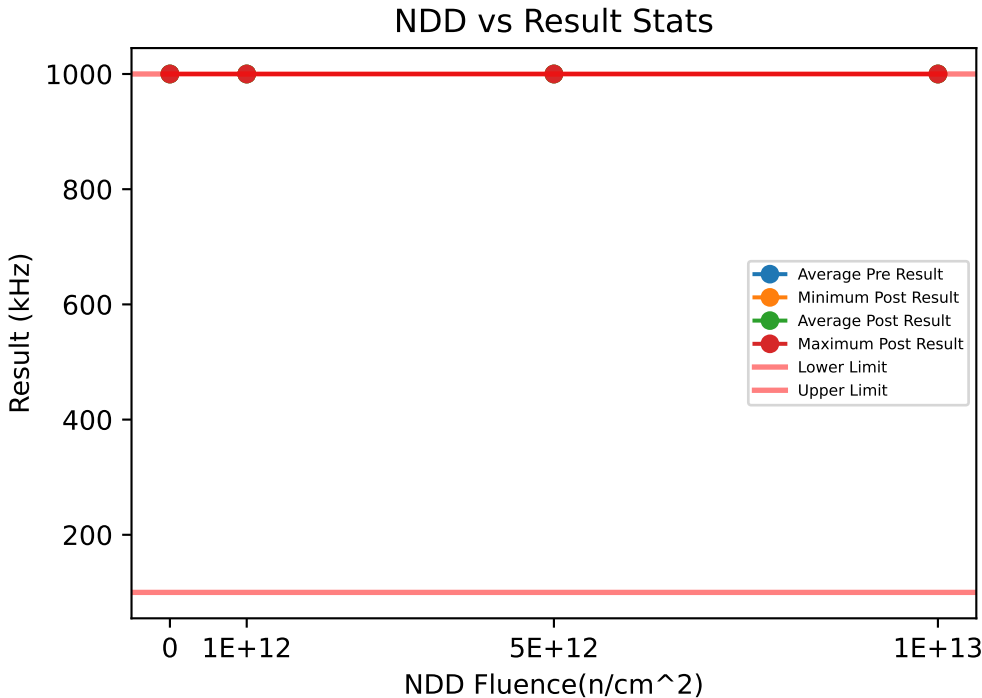


Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	499.92	500.01	0.0837
266	1e+12	NDD	499.96	500.07	0.1094
267	1e+12	NDD	499.97	500.04	0.0701
288	1e+12	NDD	499.97	500.03	0.0588
348	5e+12	NDD	499.95	500.04	0.0882
353	5e+12	NDD	499.96	500.03	0.0695
370	5e+12	NDD	499.98	500.04	0.06
377	5e+12	NDD	499.97	500.03	0.0597
389	1e+13	NDD	499.97	500.02	0.0518
394	1e+13	NDD	499.95	500.08	0.1306
395	1e+13	NDD	499.97	500.05	0.0799
571	1e+13	NDD	499.98	500.05	0.069
649	0	CORRELATION	499.96	500.04	0.0842
662	0	CORRELATION	499.97	500.02	0.0516
690	0	CORRELATION	499.97	500.04	0.0724
708	0	CORRELATION	499.94	500.04	0.1056

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	0.015618	500.02	500.04	500.04	0.011173	0.0516	0.07845	0.1056	0.022566
1e+12	499.92	499.95	499.97	0.02089	500.01	500.04	500.07	0.024801	0.0588	0.0805	0.1094	0.021791
5e+12	499.95	499.97	499.98	0.015445	500.03	500.04	500.04	0.0086284	0.0597	0.06935	0.0882	0.013365
1e+13	499.95	499.97	499.98	0.013209	500.02	500.05	500.08	0.023031	0.0518	0.082825	0.1306	0.033886



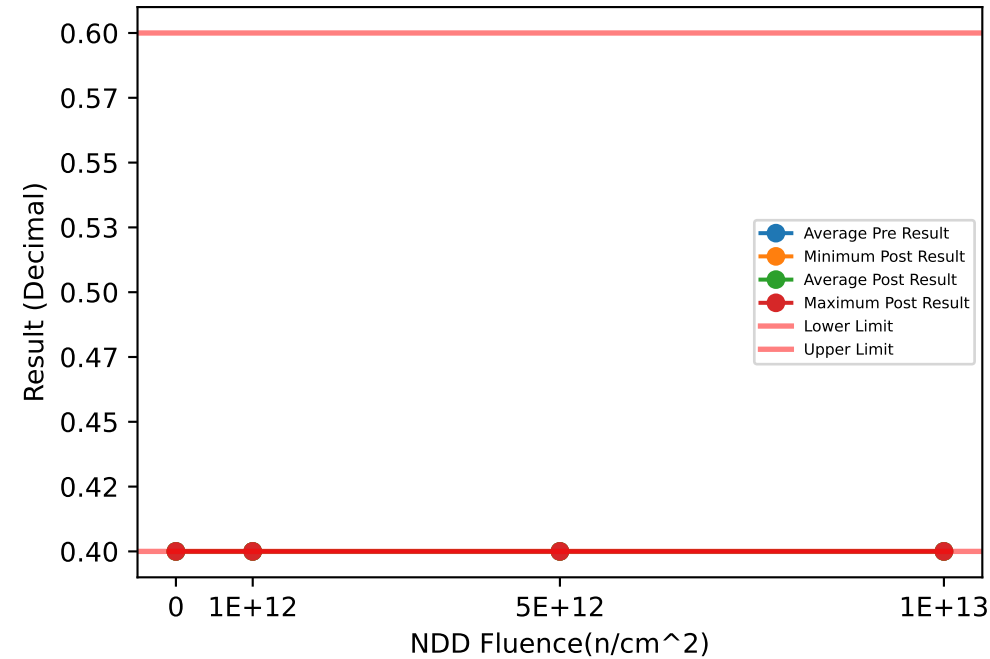
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1000	1000	0
266	1e+12	NDD	1000	1000	0
267	1e+12	NDD	1000	1000	0
288	1e+12	NDD	1000	1000	0
348	5e+12	NDD	1000	1000	0
353	5e+12	NDD	1000	1000	0
370	5e+12	NDD	1000	1000	0
377	5e+12	NDD	1000	1000	0
389	1e+13	NDD	1000	1000	0
394	1e+13	NDD	1000	1000	0
395	1e+13	NDD	1000	1000	0
571	1e+13	NDD	1000	1000	0
649	0	CORRELATION	1000	1000	0
662	0	CORRELATION	1000	1000	0
690	0	CORRELATION	1000	1000	0
708	0	CORRELATION	1000	1000	0

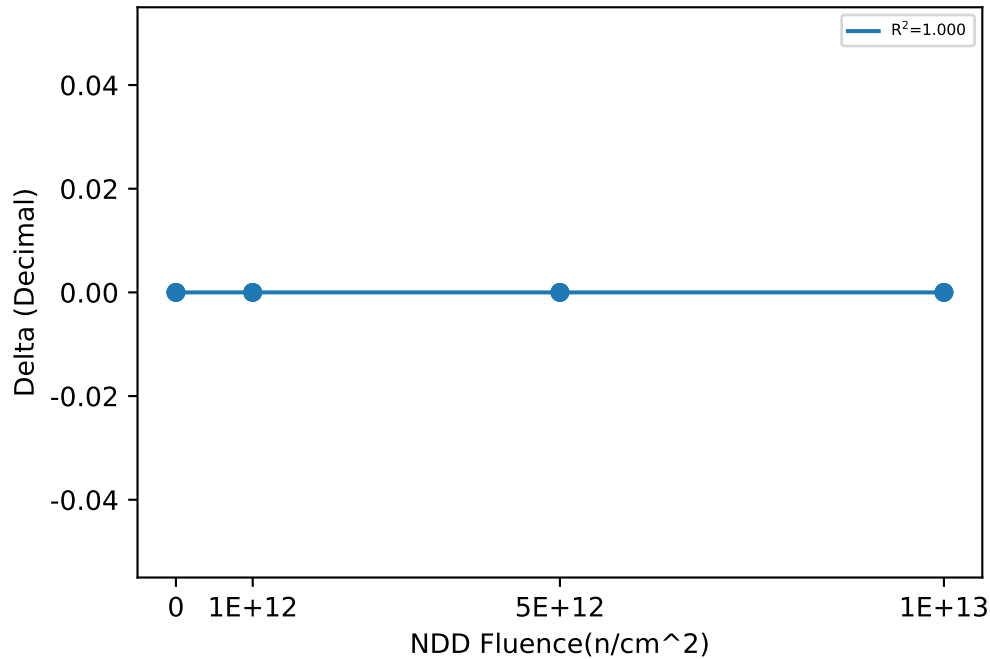
Test Statistics (kHz)

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



NDD vs Post - Pre Exposure Delta



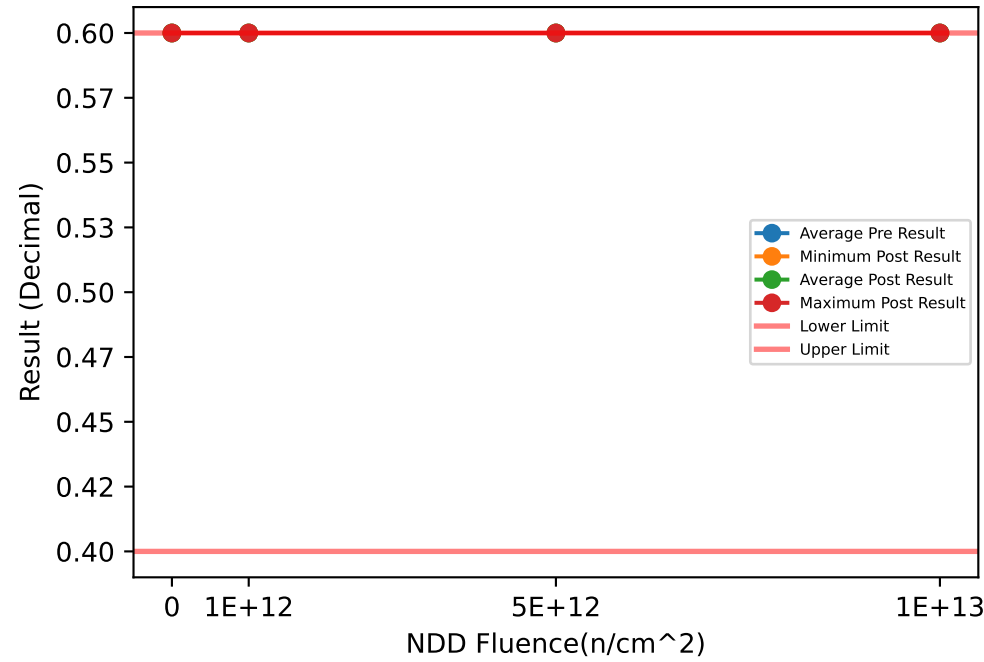
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.4	0.4	0
266	1e+12	NDD	0.4	0.4	0
267	1e+12	NDD	0.4	0.4	0
288	1e+12	NDD	0.4	0.4	0
348	5e+12	NDD	0.4	0.4	0
353	5e+12	NDD	0.4	0.4	0
370	5e+12	NDD	0.4	0.4	0
377	5e+12	NDD	0.4	0.4	0
389	1e+13	NDD	0.4	0.4	0
394	1e+13	NDD	0.4	0.4	0
395	1e+13	NDD	0.4	0.4	0
571	1e+13	NDD	0.4	0.4	0
649	0	CORRELATION	0.4	0.4	0
662	0	CORRELATION	0.4	0.4	0
690	0	CORRELATION	0.4	0.4	0
708	0	CORRELATION	0.4	0.4	0

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

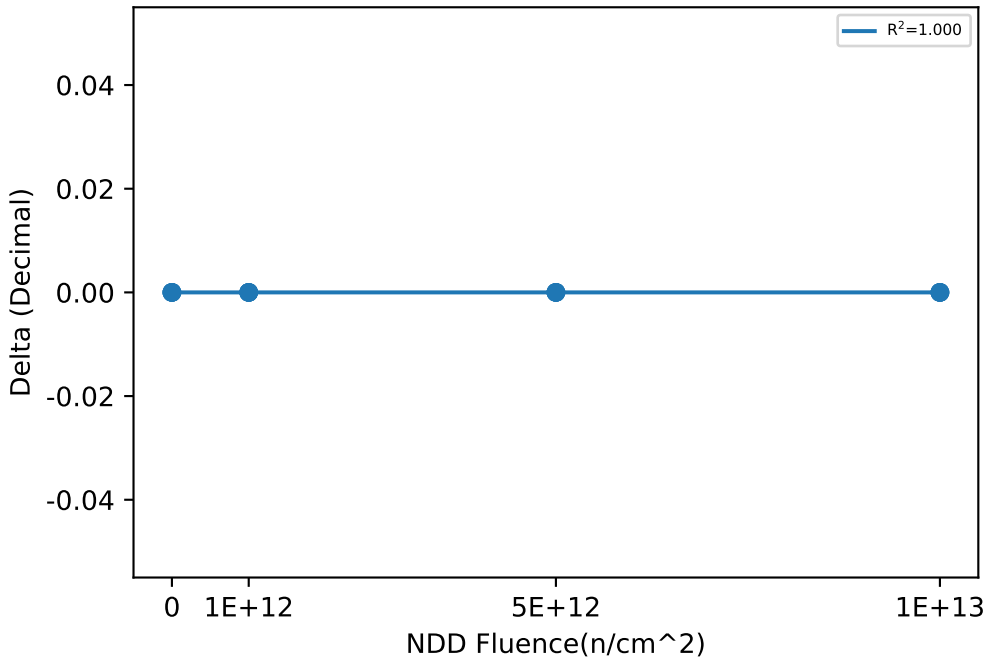
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6	0.6	0
266	1e+12	NDD	0.6	0.6	0
267	1e+12	NDD	0.6	0.6	0
288	1e+12	NDD	0.6	0.6	0
348	5e+12	NDD	0.6	0.6	0
353	5e+12	NDD	0.6	0.6	0
370	5e+12	NDD	0.6	0.6	0
377	5e+12	NDD	0.6	0.6	0
389	1e+13	NDD	0.6	0.6	0
394	1e+13	NDD	0.6	0.6	0
395	1e+13	NDD	0.6	0.6	0
571	1e+13	NDD	0.6	0.6	0
649	0	CORRELATION	0.6	0.6	0
662	0	CORRELATION	0.6	0.6	0
690	0	CORRELATION	0.6	0.6	0
708	0	CORRELATION	0.6	0.6	0

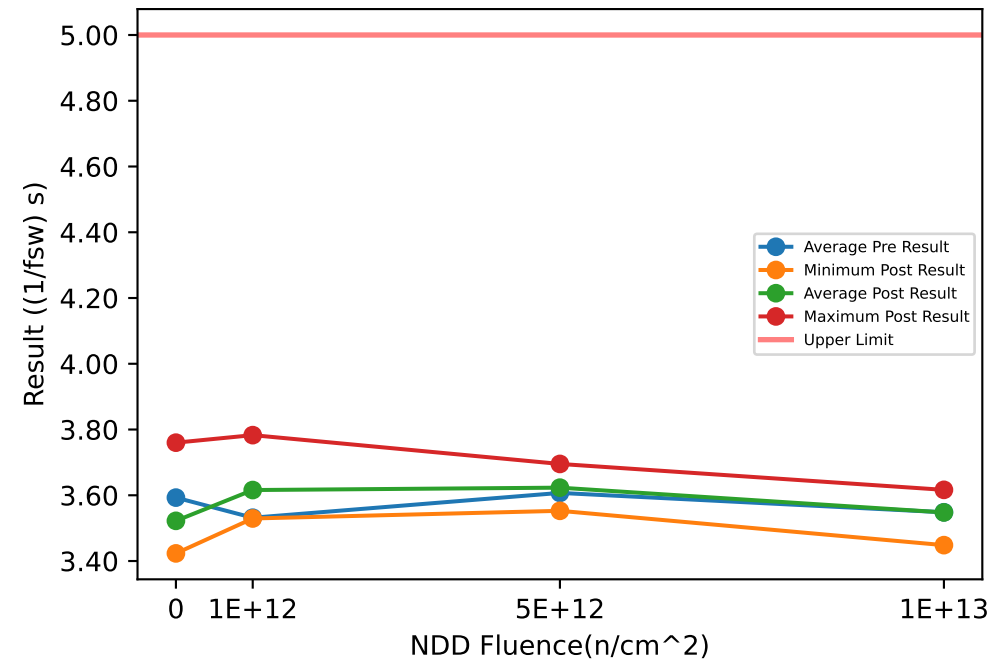
NDD vs Post - Pre Exposure Delta



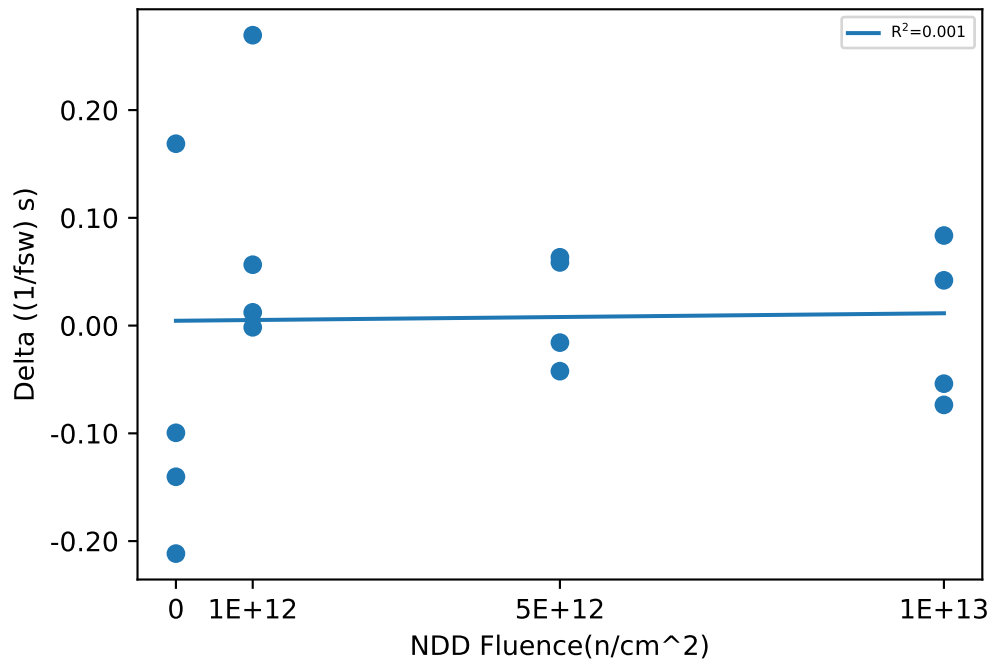
Test Statistics (Decimal)

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



NDD vs Post - Pre Exposure Delta



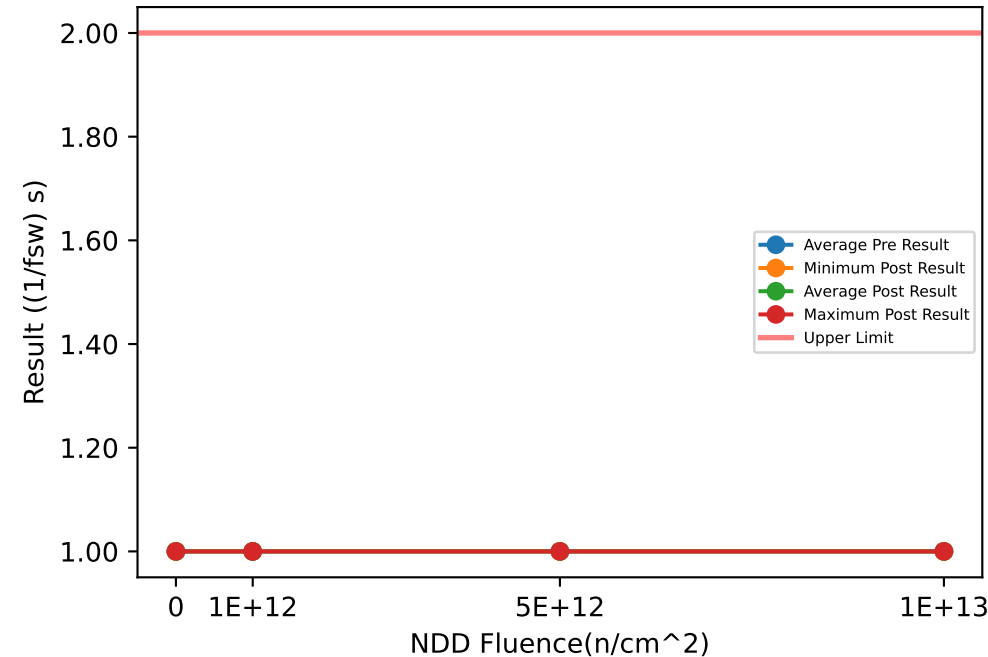
Test Results (Upper Limit = 5.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.5137	3.5702	0.0565
266	1e+12	NDD	3.5134	3.7829	0.2695
267	1e+12	NDD	3.5688	3.5811	0.0123
288	1e+12	NDD	3.531	3.5294	-0.0016
348	5e+12	NDD	3.5456	3.609	0.0634
353	5e+12	NDD	3.595	3.5527	-0.0423
370	5e+12	NDD	3.6367	3.6953	0.0586
377	5e+12	NDD	3.6514	3.6356	-0.0158
389	1e+13	NDD	3.5858	3.5319	-0.0539
394	1e+13	NDD	3.5745	3.6165	0.042
395	1e+13	NDD	3.5219	3.4483	-0.0736
571	1e+13	NDD	3.511	3.5946	0.0836
649	0	CORRELATION	3.5904	3.4501	-0.1403
662	0	CORRELATION	3.5227	3.4232	-0.0995
690	0	CORRELATION	3.6672	3.4556	-0.2116
708	0	CORRELATION	3.5912	3.76	0.1688

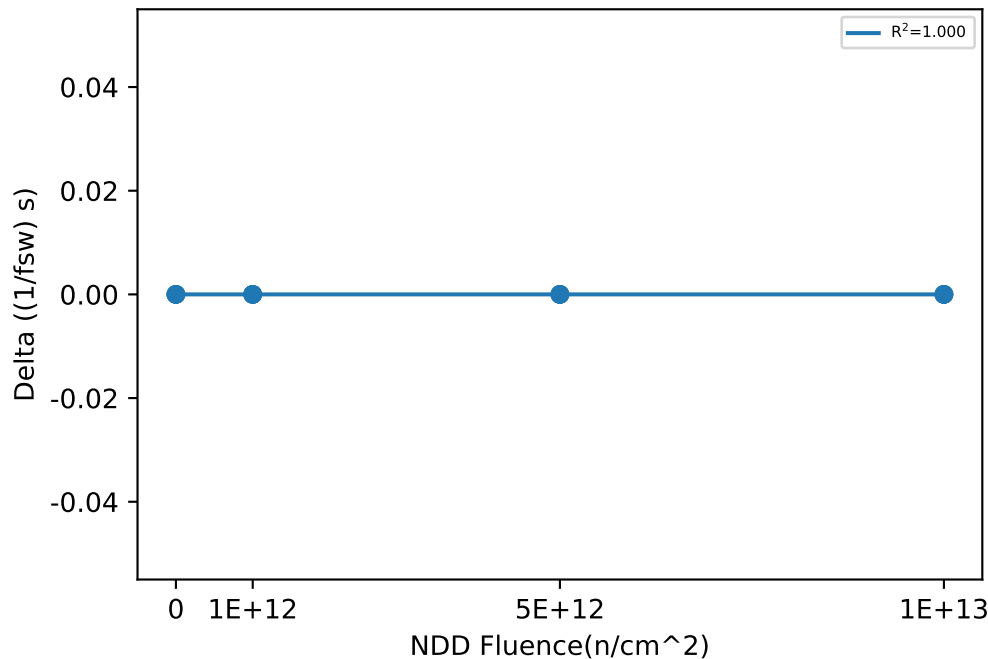
Test Statistics ((1/fsw) s)

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	3.5227	3.5929	3.6672	0.059041	3.4232	3.5222	3.76	0.15915	-0.2116	-0.07065	0.1688	0.16622
1e+12	3.5134	3.5317	3.5688	0.02605	3.5294	3.6159	3.7829	0.11354	-0.0016	0.084175	0.2695	0.12601
5e+12	3.5456	3.6072	3.6514	0.047495	3.5527	3.6231	3.6953	0.059229	-0.0423	0.015975	0.0634	0.05314
1e+13	3.511	3.5483	3.5858	0.037332	3.4483	3.5478	3.6165	0.075417	-0.0736	-0.000475	0.0836	0.075441

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



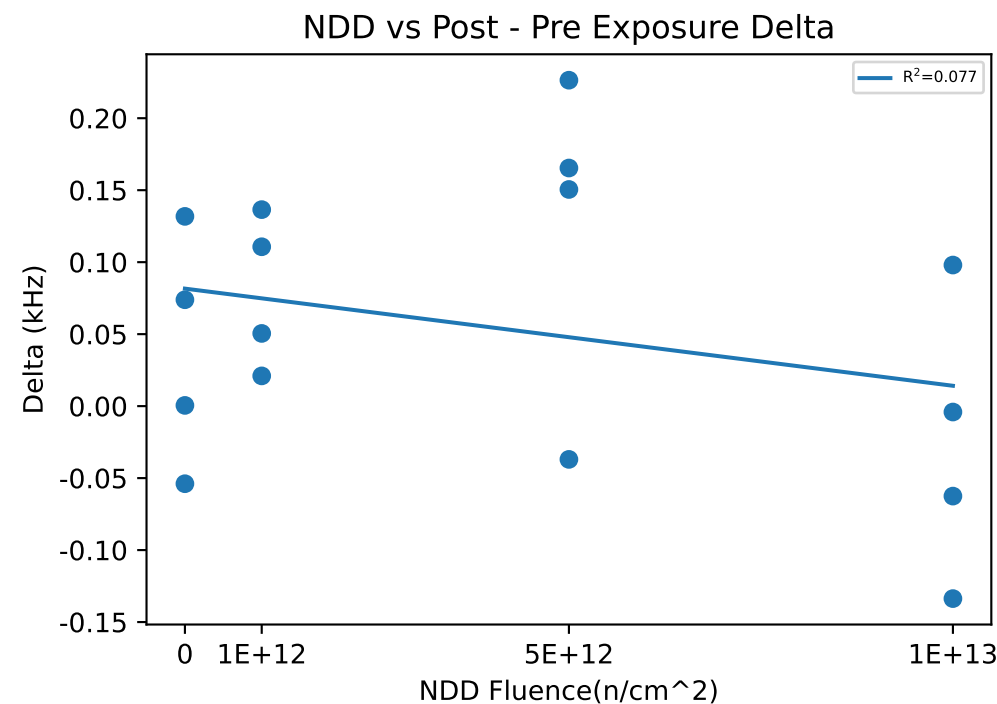
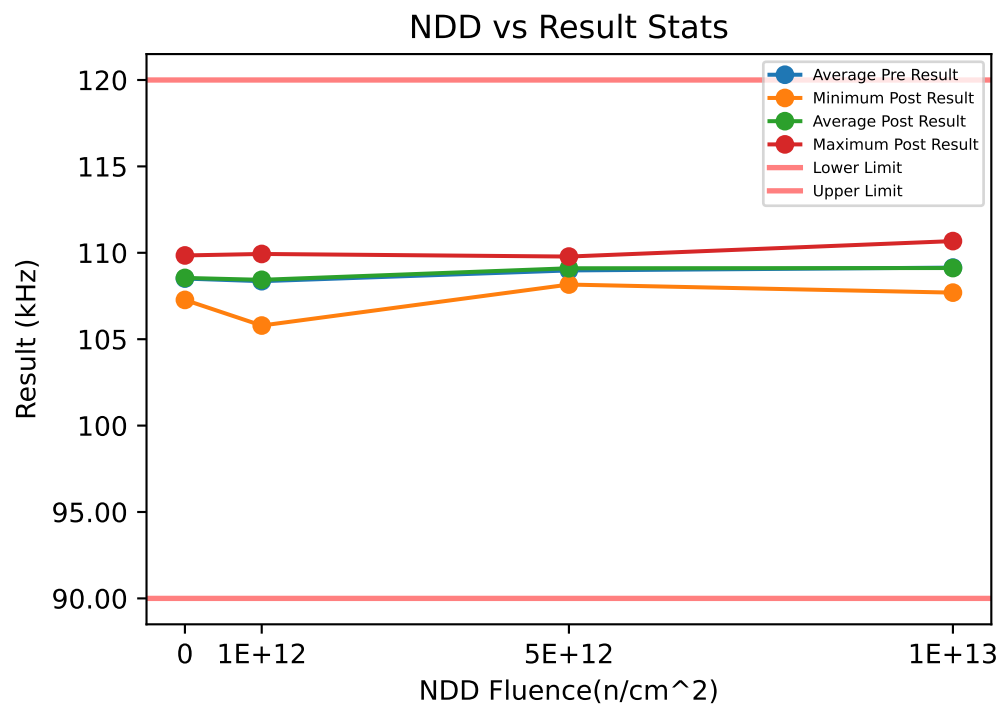
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1	1	0
266	1e+12	NDD	1	1	0
267	1e+12	NDD	1	1	0
288	1e+12	NDD	1	1	0
348	5e+12	NDD	1	1	0
353	5e+12	NDD	1	1	0
370	5e+12	NDD	1	1	0
377	5e+12	NDD	1	1	0
389	1e+13	NDD	1	1	0
394	1e+13	NDD	1	1	0
395	1e+13	NDD	1	1	0
571	1e+13	NDD	1	1	0
649	0	CORRELATION	1	1	0
662	0	CORRELATION	1	1	0
690	0	CORRELATION	1	1	0
708	0	CORRELATION	1	1	0

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



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

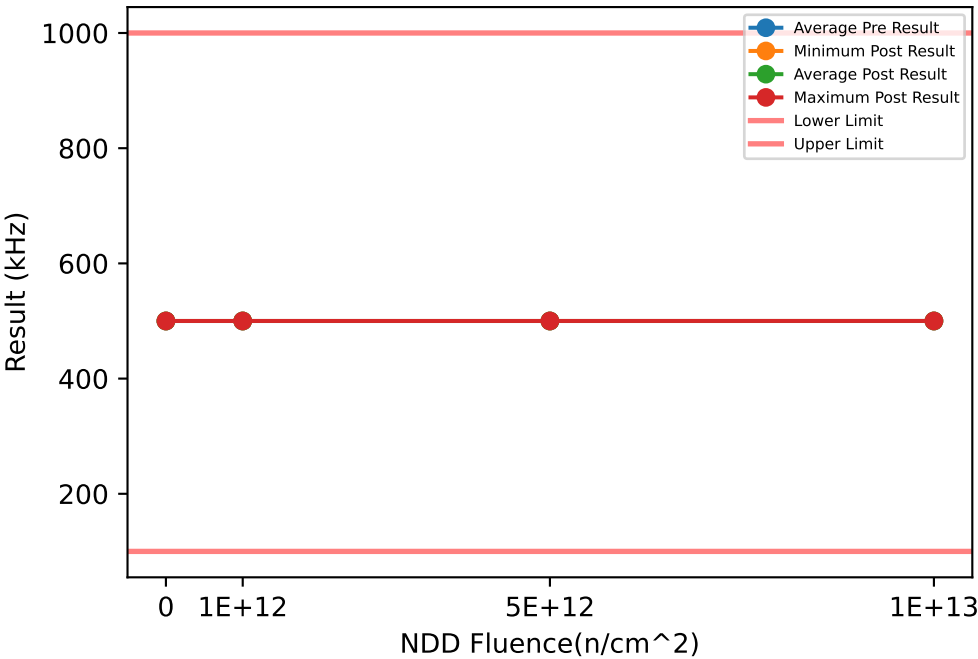
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	109.8	109.93	0.1365
266	1e+12	NDD	108.32	108.43	0.1107
267	1e+12	NDD	109.55	109.6	0.0505
288	1e+12	NDD	105.77	105.79	0.021
348	5e+12	NDD	109.82	109.78	-0.037
353	5e+12	NDD	109.04	109.27	0.2264
370	5e+12	NDD	108	108.16	0.1654
377	5e+12	NDD	109.06	109.21	0.1505
389	1e+13	NDD	108.79	108.73	-0.0625
394	1e+13	NDD	110.68	110.68	-0.0041
395	1e+13	NDD	109.51	109.37	-0.1337
571	1e+13	NDD	107.6	107.69	0.098
649	0	CORRELATION	109.72	109.85	0.1318
662	0	CORRELATION	108.02	108.02	0.0005
690	0	CORRELATION	107.33	107.27	-0.0539
708	0	CORRELATION	108.97	109.04	0.0739

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	107.33	108.51	109.72	1.0483	107.27	108.55	109.85	1.1298	-0.0539	0.038075	0.1318	0.081525
1e+12	105.77	108.36	109.8	1.8423	105.79	108.44	109.93	1.8784	0.021	0.079675	0.1365	0.053184
5e+12	108	108.98	109.82	0.74861	108.16	109.11	109.78	0.67945	-0.037	0.12632	0.2264	0.11373
1e+13	107.6	109.14	110.68	1.2929	107.69	109.12	110.68	1.2484	-0.1337	-0.025575	0.098	0.097956

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

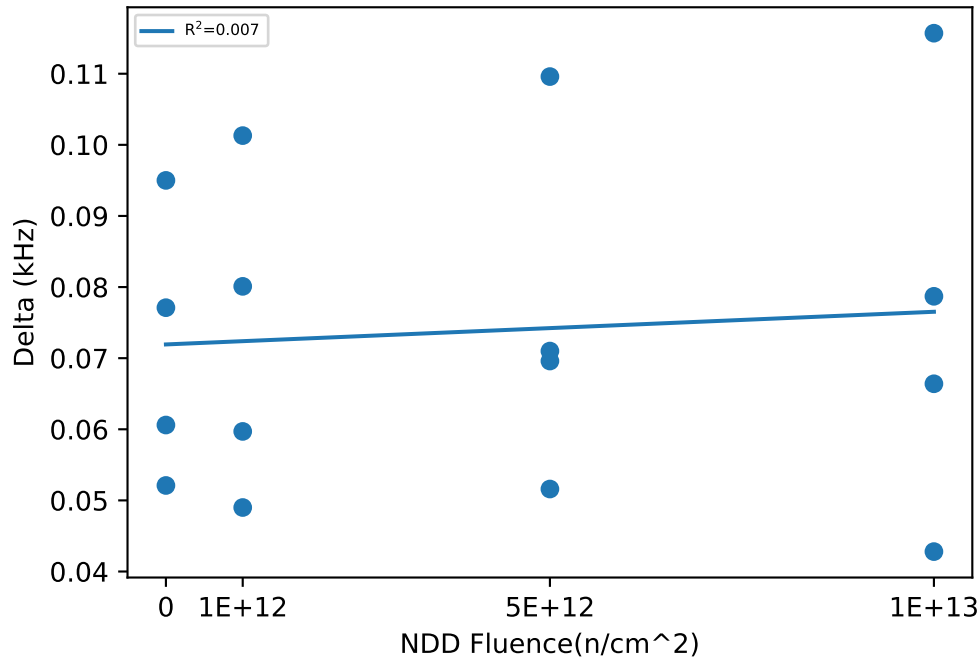
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	499.94	500.05	0.1013
266	1e+12	NDD	499.95	500.03	0.0801
267	1e+12	NDD	499.97	500.03	0.0597
288	1e+12	NDD	499.98	500.03	0.049
348	5e+12	NDD	499.94	500.01	0.0696
353	5e+12	NDD	499.94	500.05	0.1096
370	5e+12	NDD	499.98	500.05	0.071
377	5e+12	NDD	499.98	500.03	0.0516
389	1e+13	NDD	499.95	500.03	0.0787
394	1e+13	NDD	499.97	500.08	0.1157
395	1e+13	NDD	500	500.07	0.0664
571	1e+13	NDD	499.98	500.03	0.0428
649	0	CORRELATION	499.94	500.04	0.095
662	0	CORRELATION	499.98	500.03	0.0521
690	0	CORRELATION	499.96	500.02	0.0606
708	0	CORRELATION	499.95	500.03	0.0771

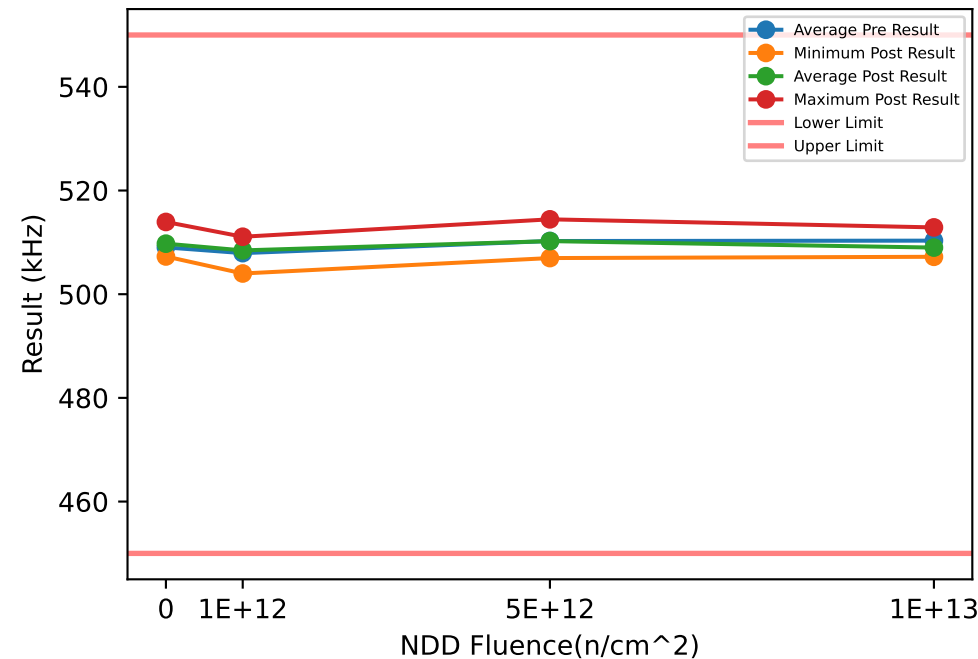
NDD vs Post - Pre Exposure Delta



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	0.014761	500.02	500.03	500.04	0.0053445	0.0521	0.0712	0.095	0.01896
1e+12	499.94	499.96	499.98	0.015999	500.03	500.03	500.05	0.0090093	0.049	0.072525	0.1013	0.023118
5e+12	499.94	499.96	499.98	0.020446	500.01	500.04	500.05	0.020117	0.0516	0.07545	0.1096	0.02442
1e+13	499.95	499.97	500	0.022592	500.03	500.05	500.08	0.028698	0.0428	0.0759	0.1157	0.030429

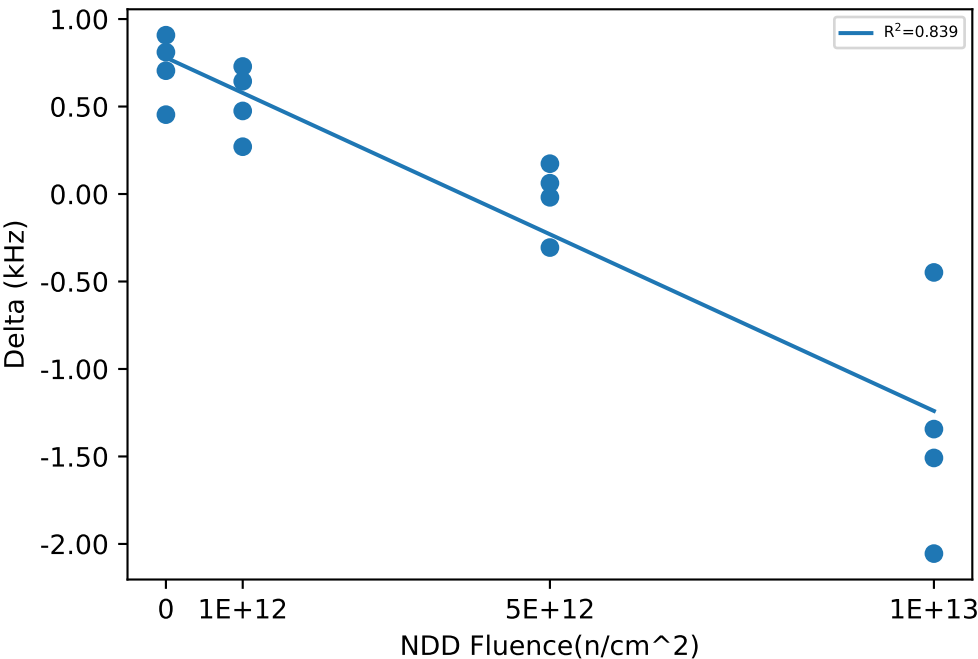
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	510.44	511.08	0.6444
266	1e+12	NDD	507.81	508.54	0.7289
267	1e+12	NDD	509.71	510.18	0.4748
288	1e+12	NDD	503.72	503.99	0.2704
348	5e+12	NDD	514.27	514.44	0.1733
353	5e+12	NDD	510.06	510.12	0.062
370	5e+12	NDD	506.99	506.97	-0.0189
377	5e+12	NDD	509.72	509.42	-0.306
389	1e+13	NDD	509.76	508.25	-1.5085
394	1e+13	NDD	513.33	512.89	-0.4482
395	1e+13	NDD	509.67	507.62	-2.0552
571	1e+13	NDD	508.56	507.22	-1.3436
649	0	CORRELATION	513.03	513.93	0.9077
662	0	CORRELATION	507.24	507.94	0.7048
690	0	CORRELATION	506.83	507.28	0.4536
708	0	CORRELATION	509.02	509.83	0.8106

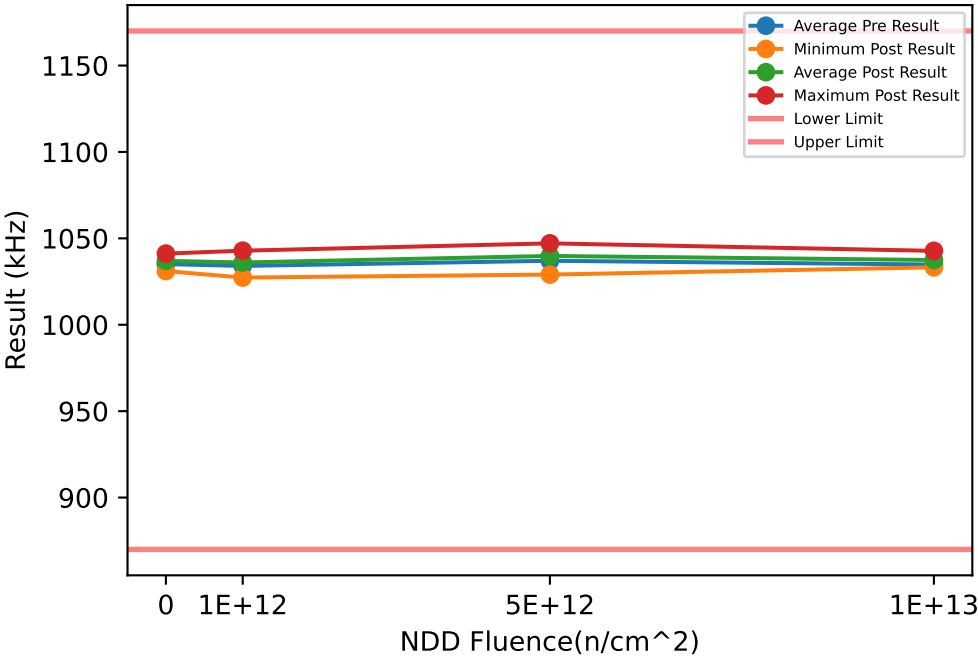
NDD vs Post - Pre Exposure Delta



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	506.83	509.03	513.03	2.8318	507.28	509.75	513.93	2.9944	0.4536	0.71917	0.9077	0.19548
1e+12	503.72	507.92	510.44	3.0088	503.99	508.45	511.08	3.1515	0.2704	0.52962	0.7289	0.20256
5e+12	506.99	510.26	514.27	3.0051	506.97	510.24	514.44	3.111	-0.306	-0.0224	0.1733	0.20483
1e+13	508.56	510.33	513.33	2.0748	507.22	508.99	512.89	2.63	-2.0552	-1.3389	-0.4482	0.66714

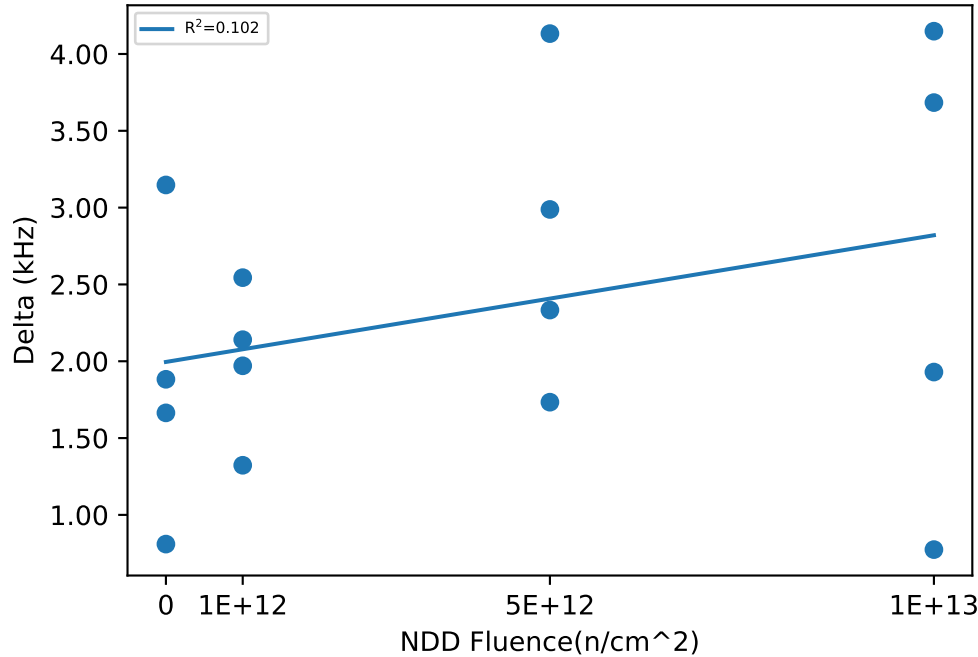
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1040.7	1042.9	2.1404
266	1e+12	NDD	1035.7	1038.2	2.5442
267	1e+12	NDD	1034.4	1035.8	1.323
288	1e+12	NDD	1025.3	1027.3	1.9705
348	5e+12	NDD	1038.9	1043	4.1326
353	5e+12	NDD	1037.1	1040.1	2.9881
370	5e+12	NDD	1026.7	1029	2.3332
377	5e+12	NDD	1045.4	1047.1	1.7336
389	1e+13	NDD	1029.5	1033.2	3.6836
394	1e+13	NDD	1040.8	1042.8	1.9297
395	1e+13	NDD	1035.2	1036	0.7741
571	1e+13	NDD	1033.7	1037.9	4.1483
649	0	CORRELATION	1038	1041.2	3.1475
662	0	CORRELATION	1036.7	1037.5	0.8099
690	0	CORRELATION	1029.4	1031.1	1.664
708	0	CORRELATION	1036.3	1038.2	1.8826

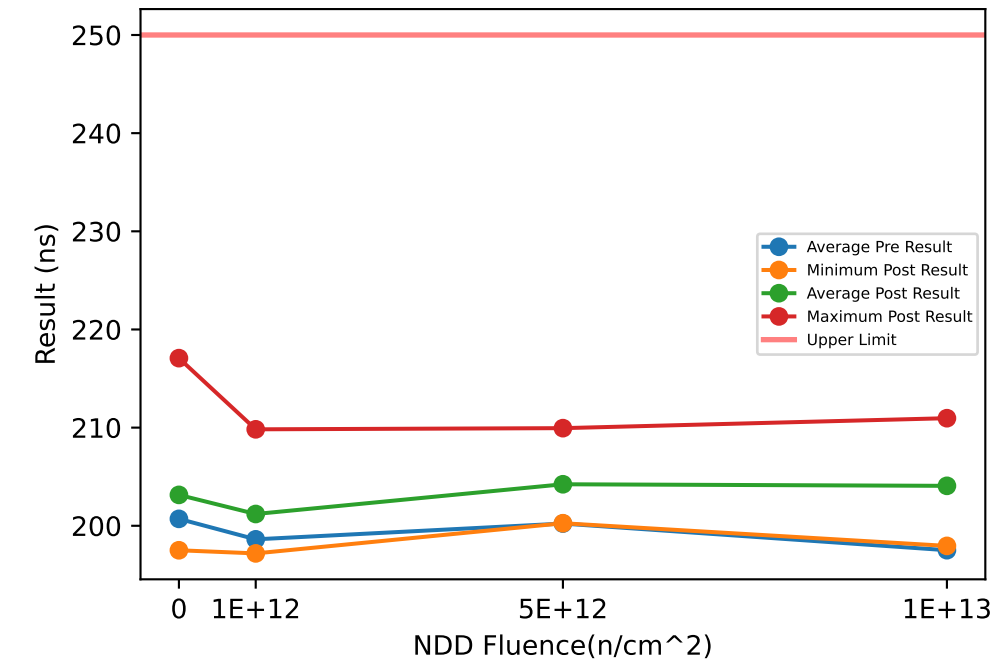
NDD vs Post - Pre Exposure Delta



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	1029.4	1035.1	1038	3.8624	1031.1	1037	1041.2	4.2471	0.8099	1.876	3.1475	0.96579
1e+12	1025.3	1034	1040.7	6.4097	1027.3	1036	1042.9	6.5229	1.323	1.9945	2.5442	0.50825
5e+12	1026.7	1037	1045.4	7.7366	1029	1039.8	1047.1	7.7362	1.7336	2.7969	4.1326	1.0273
1e+13	1029.5	1034.8	1040.8	4.6712	1033.2	1037.5	1042.8	4.0154	0.7741	2.6339	4.1483	1.5653

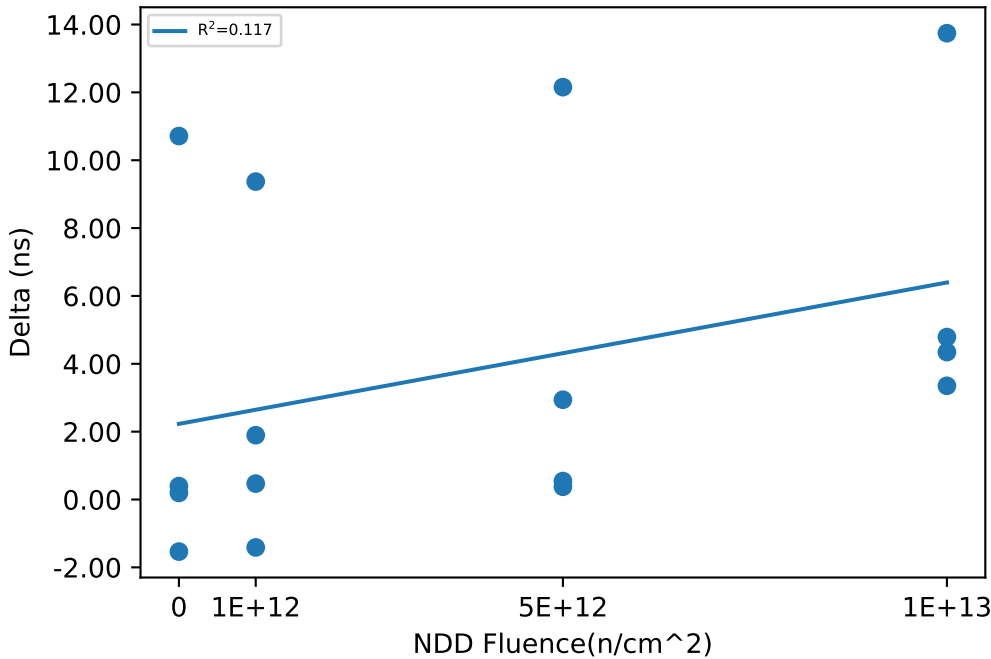
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	195.83	197.72	1.8952
266	1e+12	NDD	199.6	200.07	0.4693
267	1e+12	NDD	200.46	209.83	9.3705
288	1e+12	NDD	198.6	197.19	-1.4121
348	5e+12	NDD	199.88	200.26	0.3756
353	5e+12	NDD	198.03	200.97	2.9408
370	5e+12	NDD	197.79	209.95	12.154
377	5e+12	NDD	205.19	205.74	0.5442
389	1e+13	NDD	196.73	201.52	4.7882
394	1e+13	NDD	193.6	197.95	4.345
395	1e+13	NDD	197.22	210.96	13.744
571	1e+13	NDD	202.5	205.85	3.3515
649	0	CORRELATION	197.11	197.51	0.3955
662	0	CORRELATION	206.37	217.08	10.713
690	0	CORRELATION	200.69	199.16	-1.5352
708	0	CORRELATION	198.66	198.85	0.194

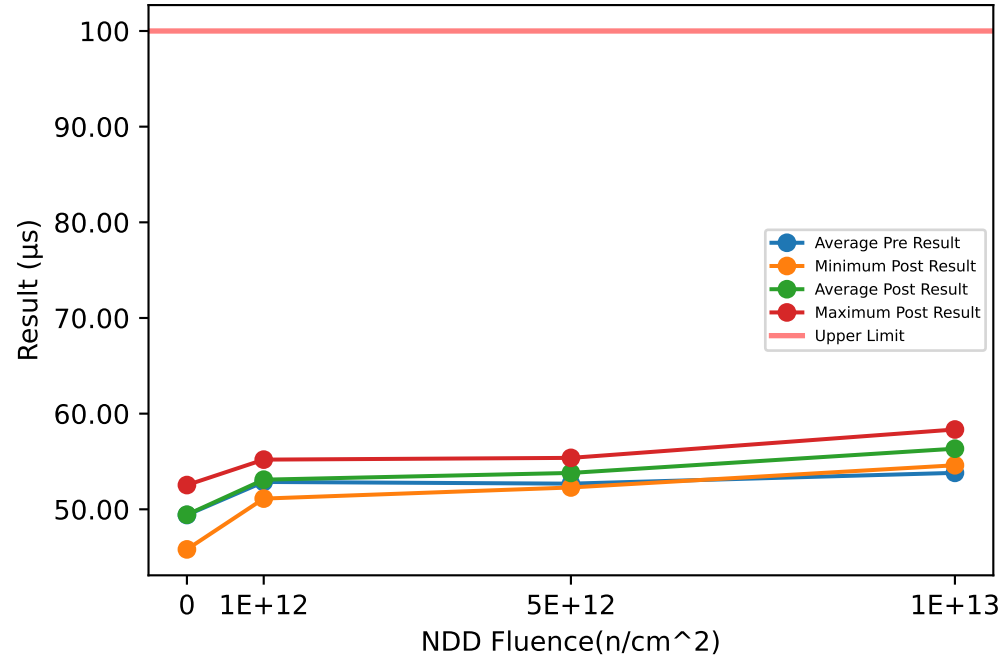
NDD vs Post - Pre Exposure Delta



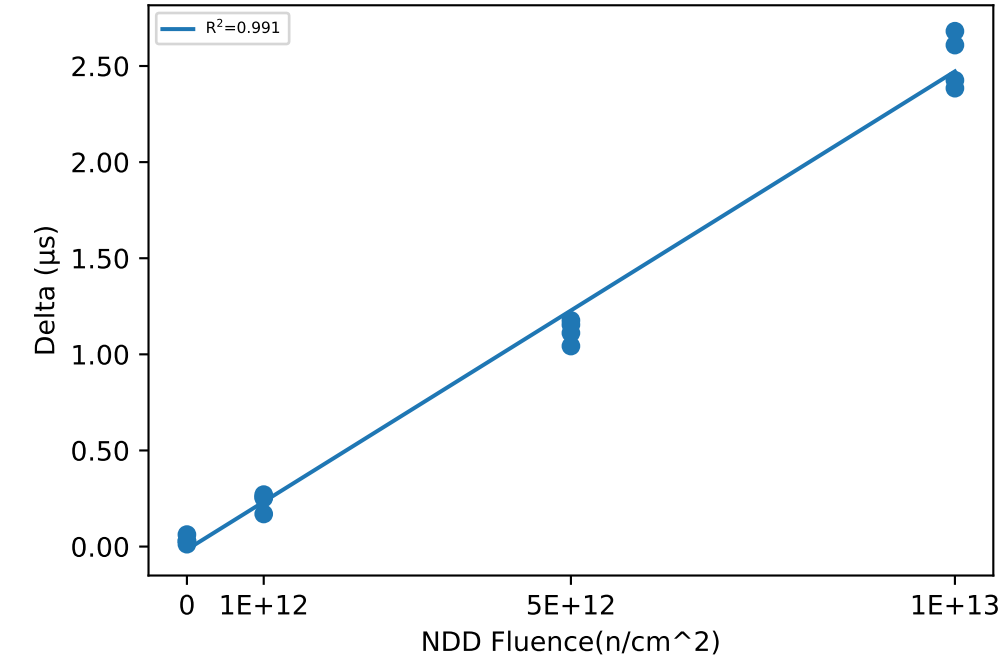
Test Statistics (ns)

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	197.11	200.71	206.37	4.0484	197.51	203.15	217.08	9.3152	-1.5352	2.4418	10.713	5.5817
1e+12	195.83	198.62	200.46	2.0103	197.19	201.2	209.83	5.8854	-1.4121	2.5807	9.3705	4.7248
5e+12	197.79	200.23	205.19	3.4403	200.26	204.23	209.95	4.5203	0.3756	4.0038	12.154	5.5587
1e+13	193.6	197.51	202.5	3.6878	197.95	204.07	210.96	5.6152	3.3515	6.5572	13.744	4.8288

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta

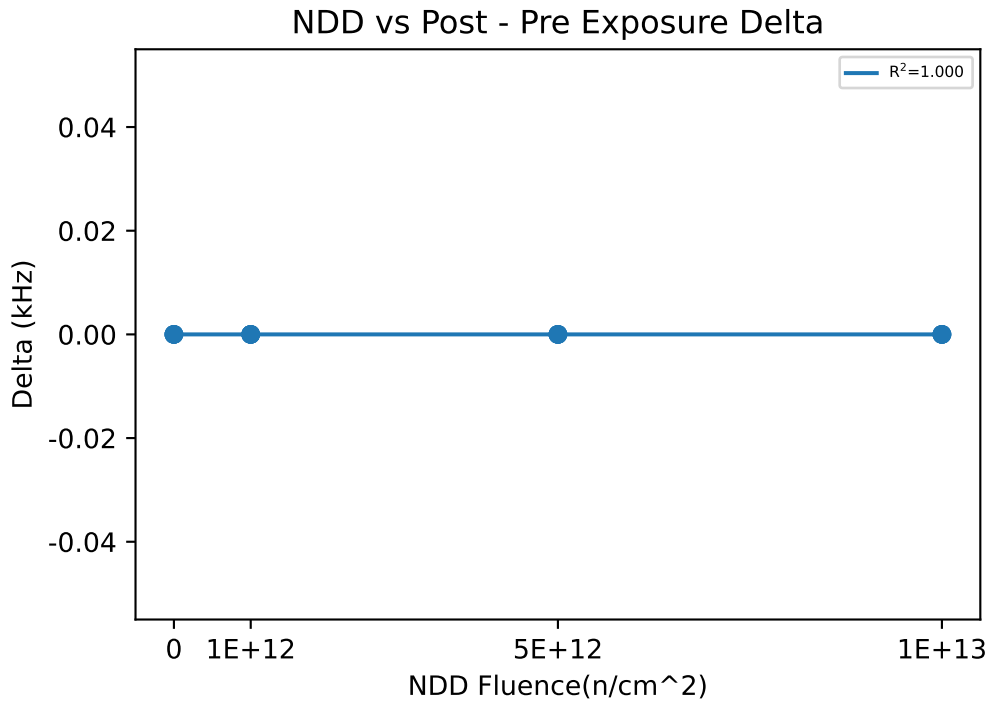
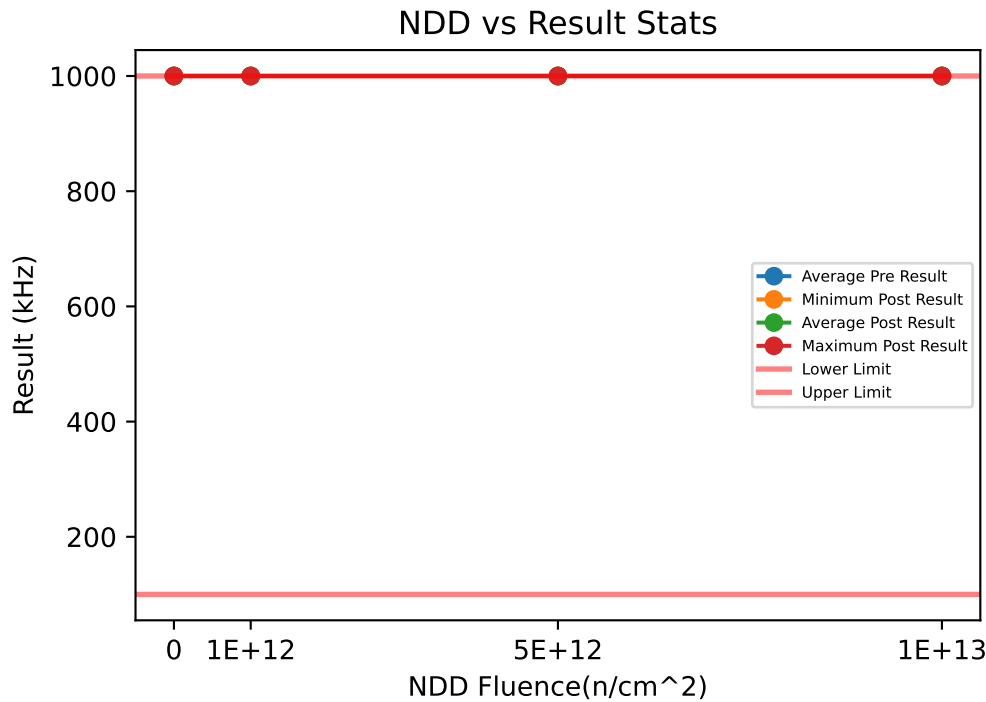


Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	54.942	55.194	0.2527
266	1e+12	NDD	50.862	51.12	0.2589
267	1e+12	NDD	53.807	54.077	0.2703
288	1e+12	NDD	51.83	51.999	0.1695
348	5e+12	NDD	51.239	52.282	1.0431
353	5e+12	NDD	54.2	55.376	1.1765
370	5e+12	NDD	52.291	53.402	1.111
377	5e+12	NDD	52.998	54.152	1.1541
389	1e+13	NDD	55.663	58.344	2.6811
394	1e+13	NDD	54.277	56.662	2.3846
395	1e+13	NDD	52.178	54.604	2.4259
571	1e+13	NDD	53.13	55.739	2.6088
649	0	CORRELATION	47.824	47.853	0.0296
662	0	CORRELATION	52.506	52.535	0.0292
690	0	CORRELATION	45.797	45.81	0.0123
708	0	CORRELATION	51.483	51.546	0.0624

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	45.797	49.403	52.506	3.1332	45.81	49.436	52.535	3.147	0.0123	0.033375	0.0624	0.020963
1e+12	50.862	52.86	54.942	1.8516	51.12	53.098	55.194	1.8683	0.1695	0.23785	0.2703	0.046146
5e+12	51.239	52.682	54.2	1.2435	52.282	53.803	55.376	1.3001	1.0431	1.1212	1.1765	0.05872
1e+13	52.178	53.812	55.663	1.5028	54.604	56.337	58.344	1.5804	2.3846	2.5251	2.6811	0.1425



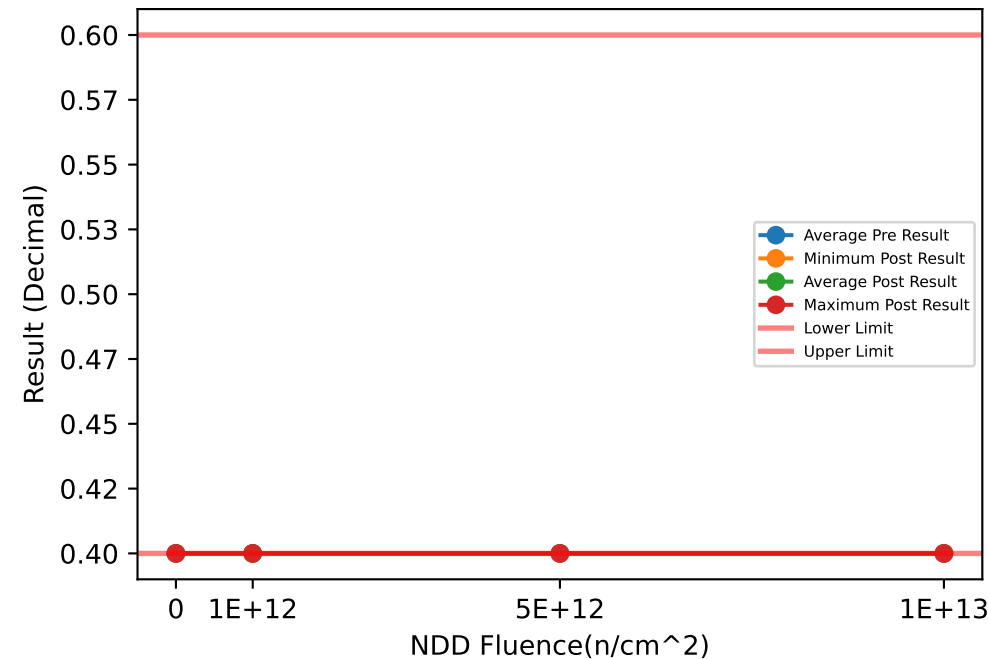
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1000	1000	0
266	1e+12	NDD	1000	1000	0
267	1e+12	NDD	1000	1000	0
288	1e+12	NDD	1000	1000	0
348	5e+12	NDD	1000	1000	0
353	5e+12	NDD	1000	1000	0
370	5e+12	NDD	1000	1000	0
377	5e+12	NDD	1000	1000	0
389	1e+13	NDD	1000	1000	0
394	1e+13	NDD	1000	1000	0
395	1e+13	NDD	1000	1000	0
571	1e+13	NDD	1000	1000	0
649	0	CORRELATION	1000	1000	0
662	0	CORRELATION	1000	1000	0
690	0	CORRELATION	1000	1000	0
708	0	CORRELATION	1000	1000	0

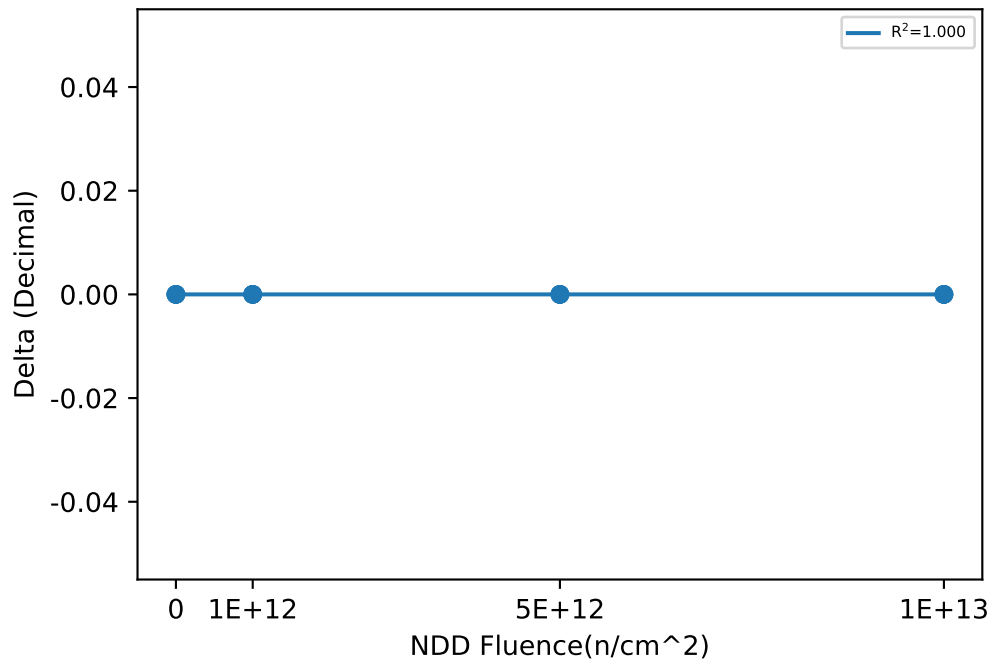
Test Statistics (kHz)

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



NDD vs Post - Pre Exposure Delta



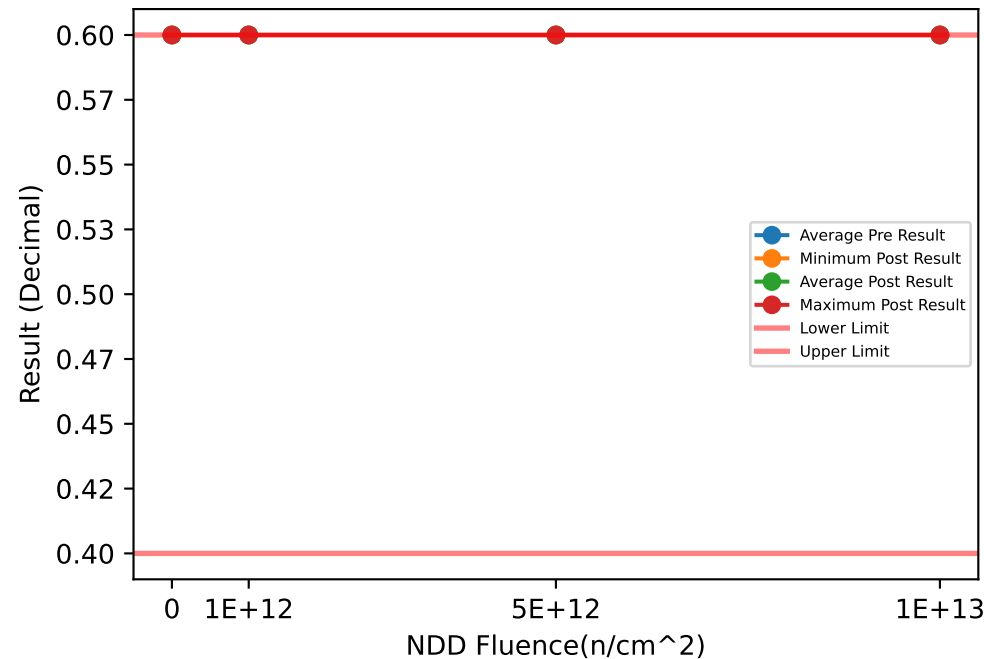
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.4	0.4	0
266	1e+12	NDD	0.4	0.4	0
267	1e+12	NDD	0.4	0.4	0
288	1e+12	NDD	0.4	0.4	0
348	5e+12	NDD	0.4	0.4	0
353	5e+12	NDD	0.4	0.4	0
370	5e+12	NDD	0.4	0.4	0
377	5e+12	NDD	0.4	0.4	0
389	1e+13	NDD	0.4	0.4	0
394	1e+13	NDD	0.4	0.4	0
395	1e+13	NDD	0.4	0.4	0
571	1e+13	NDD	0.4	0.4	0
649	0	CORRELATION	0.4	0.4	0
662	0	CORRELATION	0.4	0.4	0
690	0	CORRELATION	0.4	0.4	0
708	0	CORRELATION	0.4	0.4	0

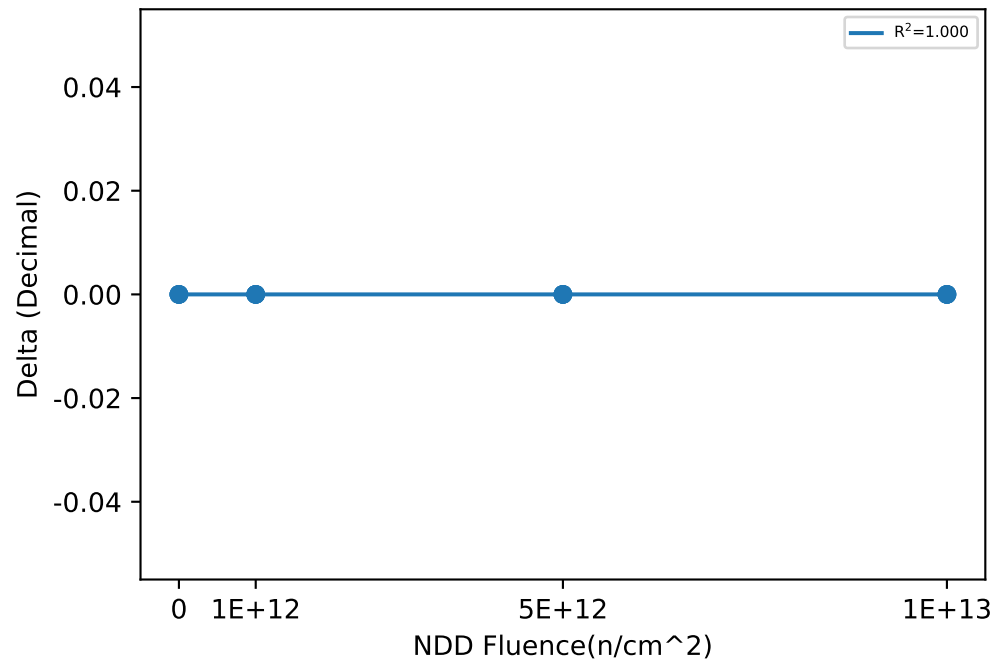
Test Statistics (Decimal)

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



NDD vs Post - Pre Exposure Delta

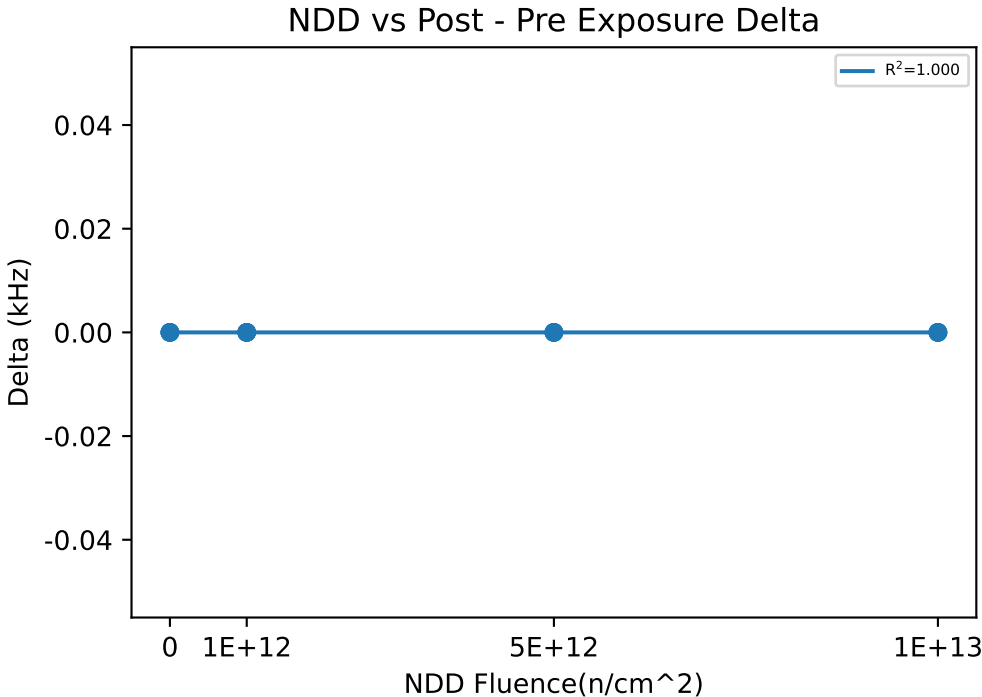
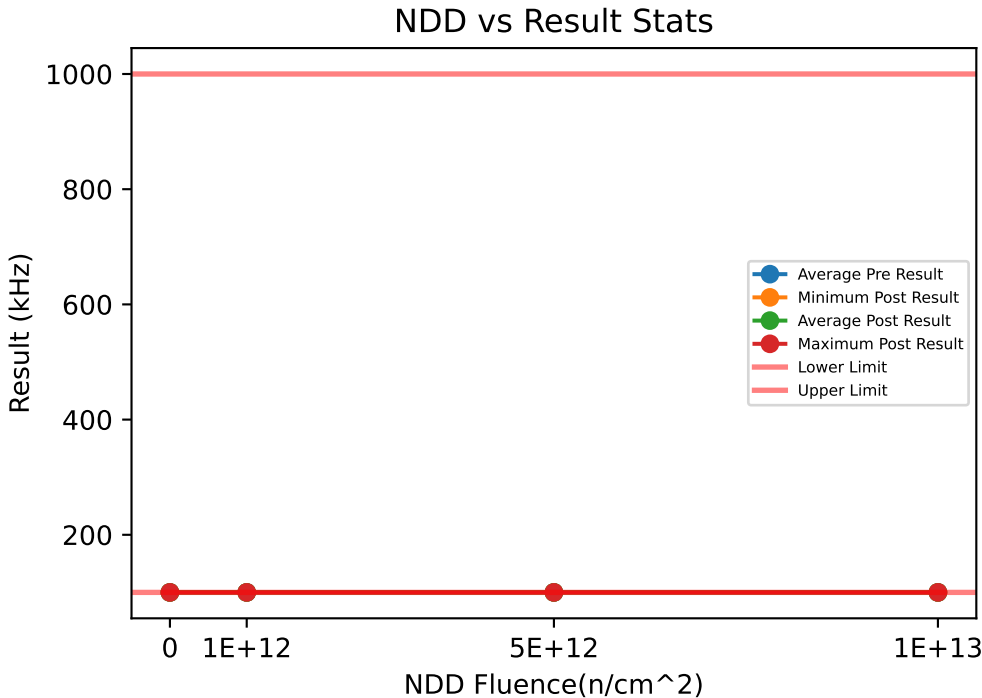


Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6	0.6	0
266	1e+12	NDD	0.6	0.6	0
267	1e+12	NDD	0.6	0.6	0
288	1e+12	NDD	0.6	0.6	0
348	5e+12	NDD	0.6	0.6	0
353	5e+12	NDD	0.6	0.6	0
370	5e+12	NDD	0.6	0.6	0
377	5e+12	NDD	0.6	0.6	0
389	1e+13	NDD	0.6	0.6	0
394	1e+13	NDD	0.6	0.6	0
395	1e+13	NDD	0.6	0.6	0
571	1e+13	NDD	0.6	0.6	0
649	0	CORRELATION	0.6	0.6	0
662	0	CORRELATION	0.6	0.6	0
690	0	CORRELATION	0.6	0.6	0
708	0	CORRELATION	0.6	0.6	0

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



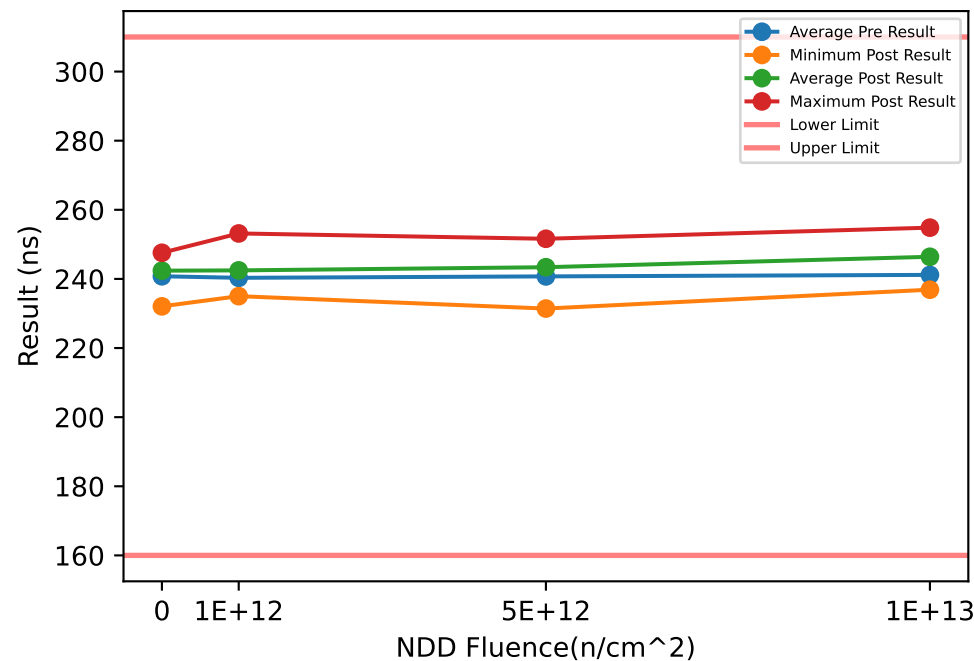
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	100	100	0
266	1e+12	NDD	100	100	0
267	1e+12	NDD	100	100	0
288	1e+12	NDD	100	100	0
348	5e+12	NDD	100	100	0
353	5e+12	NDD	100	100	0
370	5e+12	NDD	100	100	0
377	5e+12	NDD	100	100	0
389	1e+13	NDD	100	100	0
394	1e+13	NDD	100	100	0
395	1e+13	NDD	100	100	0
571	1e+13	NDD	100	100	0
649	0	CORRELATION	100	100	0
662	0	CORRELATION	100	100	0
690	0	CORRELATION	100	100	0
708	0	CORRELATION	100	100	0

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

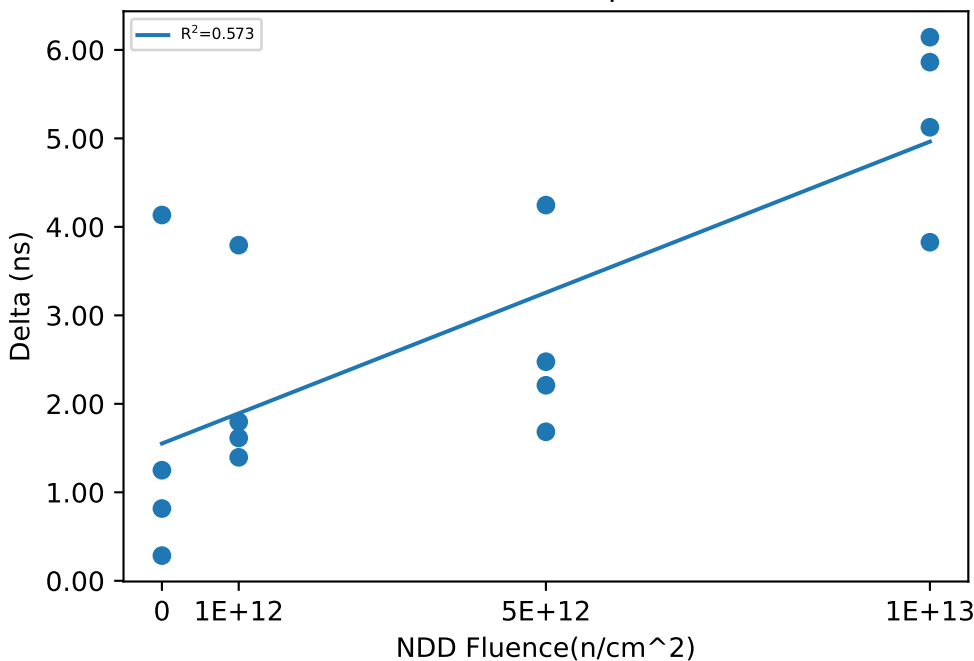
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	233.21	235.01	1.7968
266	1e+12	NDD	251.76	253.16	1.3956
267	1e+12	NDD	233.83	237.62	3.7933
288	1e+12	NDD	242.47	244.09	1.6144
348	5e+12	NDD	228.95	231.43	2.4761
353	5e+12	NDD	249.93	251.62	1.684
370	5e+12	NDD	235.37	239.62	4.246
377	5e+12	NDD	248.67	250.88	2.2097
389	1e+13	NDD	231.76	236.88	5.1256
394	1e+13	NDD	251.01	254.83	3.8263
395	1e+13	NDD	237.05	242.91	5.8615
571	1e+13	NDD	244.85	250.99	6.1436
649	0	CORRELATION	246.52	246.8	0.2848
662	0	CORRELATION	238.99	243.12	4.134
690	0	CORRELATION	246.75	247.56	0.8166
708	0	CORRELATION	230.82	232.06	1.2498

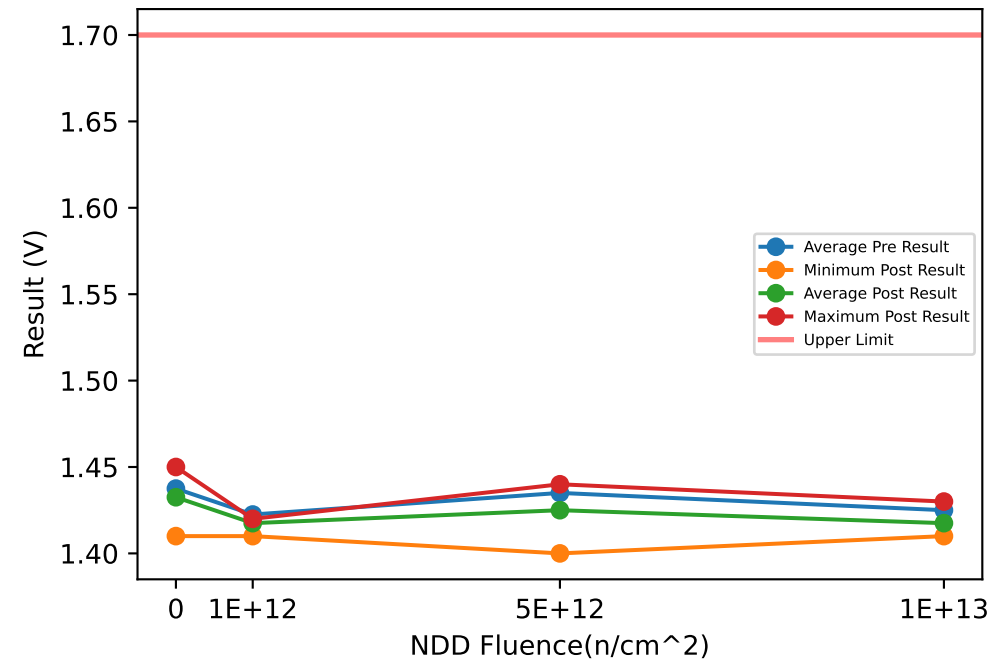
NDD vs Post - Pre Exposure Delta



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	230.82	240.77	246.75	7.5497	232.06	242.39	247.56	7.1494	0.2848	1.6213	4.134	1.721
1e+12	233.21	240.32	251.76	8.7211	235.01	242.47	253.16	8.0824	1.3956	2.15	3.7933	1.1077
5e+12	228.95	240.73	249.93	10.251	231.43	243.39	251.62	9.6813	1.684	2.6539	4.246	1.1112
1e+13	231.76	241.16	251.01	8.4838	236.88	246.4	254.83	8.0622	3.8263	5.2392	6.1436	1.0351

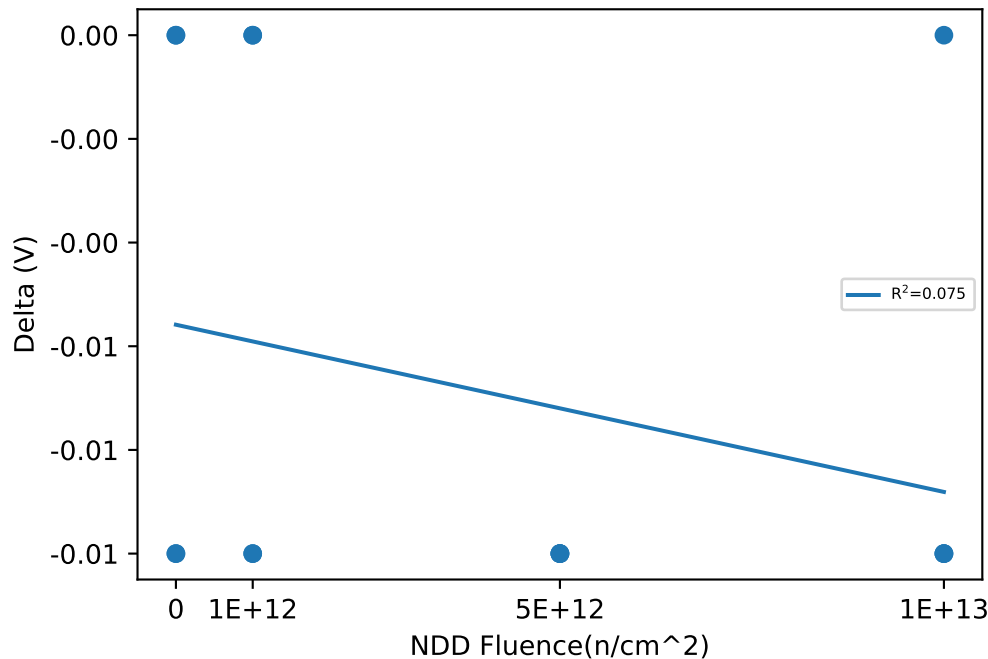
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.42	1.42	0
266	1e+12	NDD	1.41	1.41	0
267	1e+12	NDD	1.43	1.42	-0.01
288	1e+12	NDD	1.43	1.42	-0.01
348	5e+12	NDD	1.45	1.44	-0.01
353	5e+12	NDD	1.44	1.43	-0.01
370	5e+12	NDD	1.44	1.43	-0.01
377	5e+12	NDD	1.41	1.4	-0.01
389	1e+13	NDD	1.42	1.41	-0.01
394	1e+13	NDD	1.42	1.42	0
395	1e+13	NDD	1.44	1.43	-0.01
571	1e+13	NDD	1.42	1.41	-0.01
649	0	CORRELATION	1.45	1.45	0
662	0	CORRELATION	1.43	1.43	0
690	0	CORRELATION	1.42	1.41	-0.01
708	0	CORRELATION	1.45	1.44	-0.01

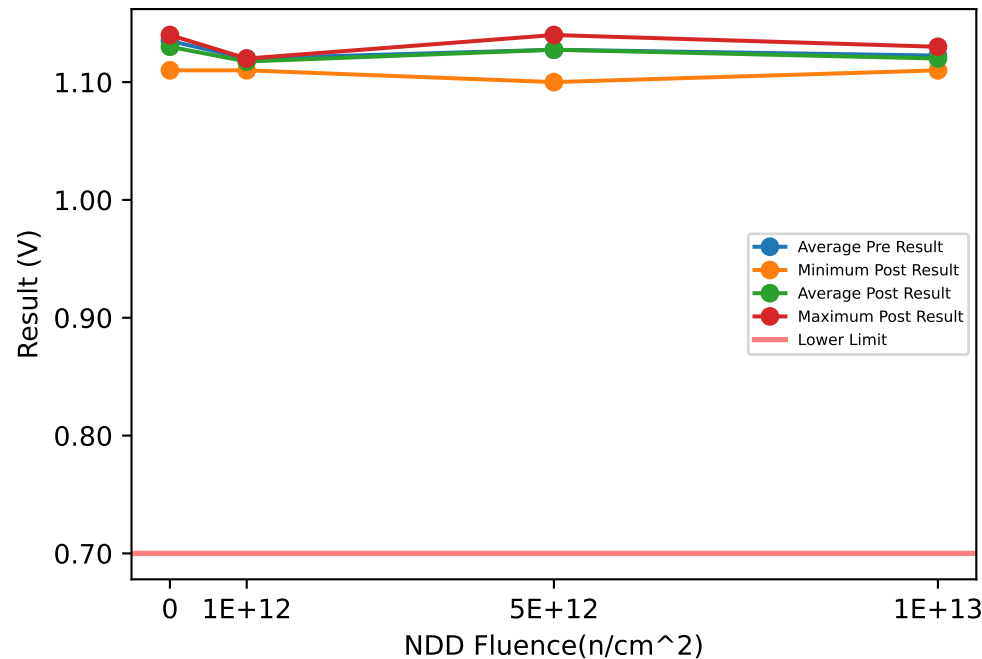
NDD vs Post - Pre Exposure Delta



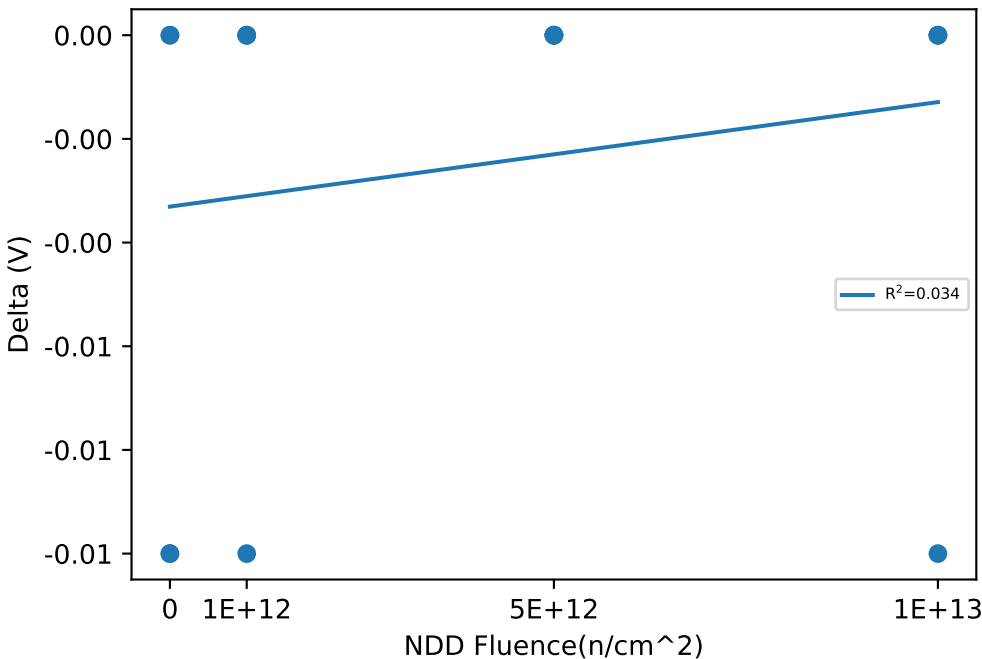
Test Statistics (V)

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	1.42	1.4375	1.45	0.015	1.41	1.4325	1.45	0.017078	-0.01	-0.005	0	0.0057735
1e+12	1.41	1.4225	1.43	0.0095743	1.41	1.4175	1.42	0.005	-0.01	-0.005	0	0.0057735
5e+12	1.41	1.435	1.45	0.017321	1.4	1.425	1.44	0.017321	-0.01	-0.01	-0.01	0
1e+13	1.42	1.425	1.44	0.01	1.41	1.4175	1.43	0.0095743	-0.01	-0.0075	0	0.005

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.7 (V))

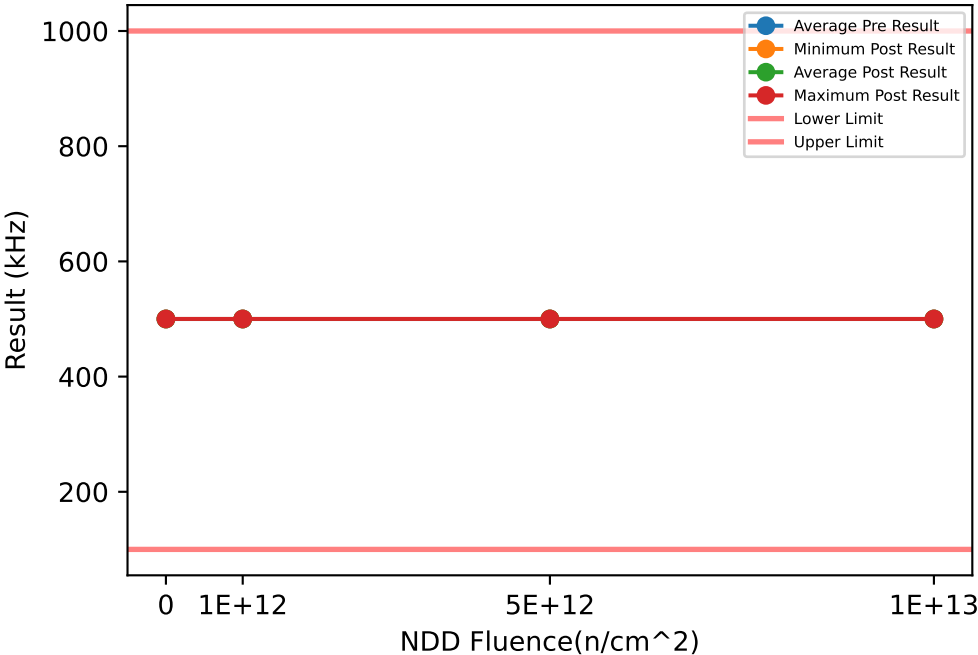
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1.12	1.12	0
266	1e+12	NDD	1.11	1.11	0
267	1e+12	NDD	1.12	1.12	0
288	1e+12	NDD	1.13	1.12	-0.01
348	5e+12	NDD	1.14	1.14	0
353	5e+12	NDD	1.14	1.14	0
370	5e+12	NDD	1.13	1.13	0
377	5e+12	NDD	1.1	1.1	0
389	1e+13	NDD	1.11	1.11	0
394	1e+13	NDD	1.12	1.12	0
395	1e+13	NDD	1.14	1.13	-0.01
571	1e+13	NDD	1.12	1.12	0
649	0	CORRELATION	1.15	1.14	-0.01
662	0	CORRELATION	1.13	1.13	0
690	0	CORRELATION	1.12	1.11	-0.01
708	0	CORRELATION	1.14	1.14	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	1.12	1.135	1.15	0.01291	1.11	1.13	1.14	0.014142	-0.01	-0.005	0	0.0057735
1e+12	1.11	1.12	1.13	0.008165	1.11	1.1175	1.12	0.005	-0.01	-0.0025	0	0.005
5e+12	1.1	1.1275	1.14	0.01893	1.1	1.1275	1.14	0.01893	0	0	0	0
1e+13	1.11	1.1225	1.14	0.012583	1.11	1.12	1.13	0.008165	-0.01	-0.0025	0	0.005

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

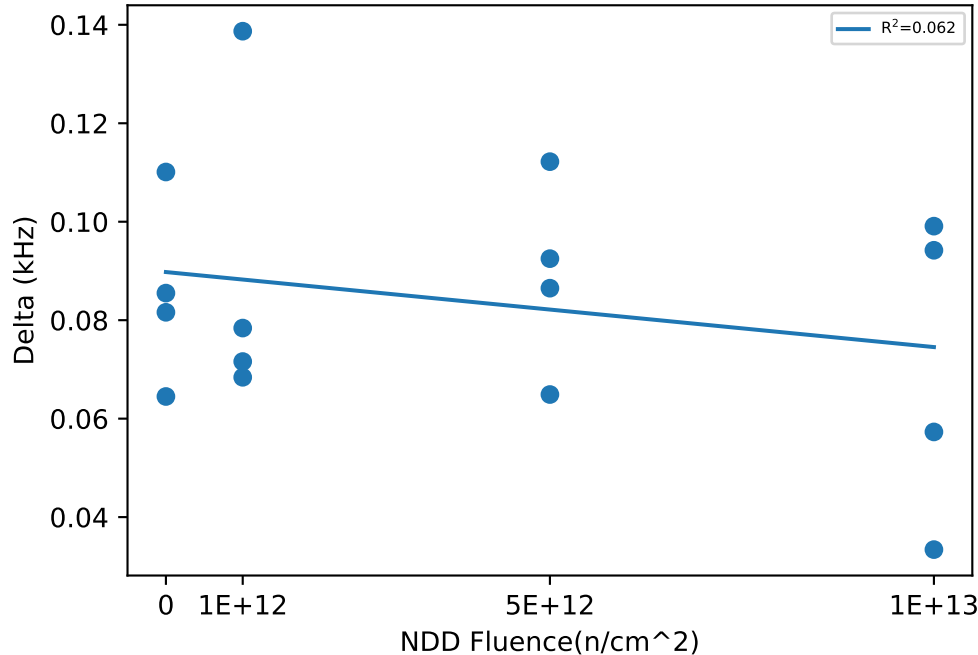
NDD vs Result Stats



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

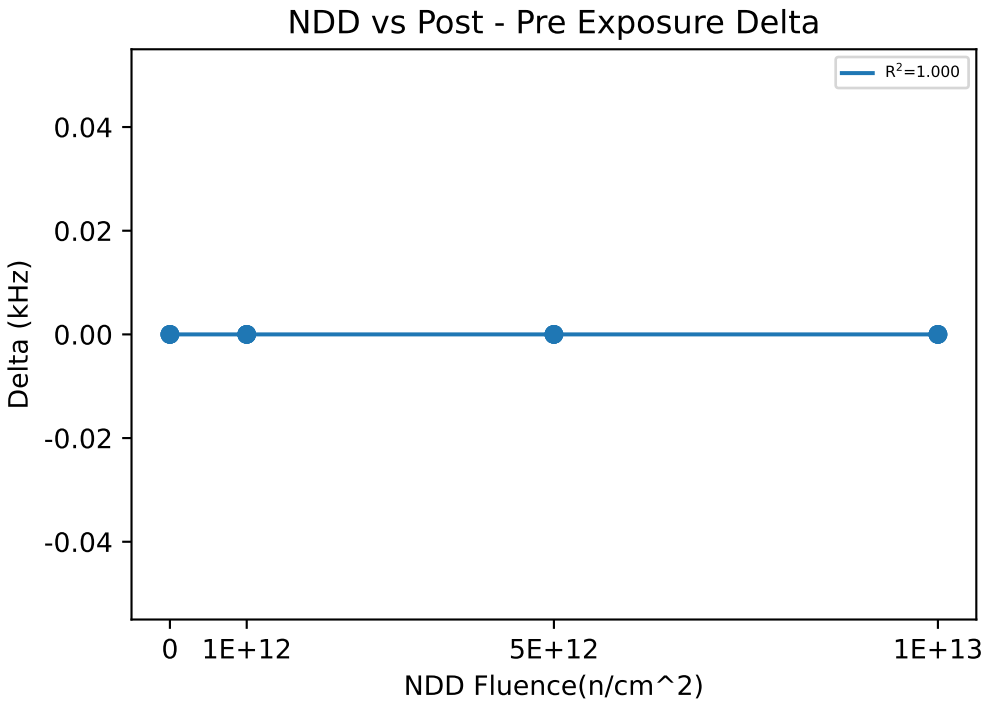
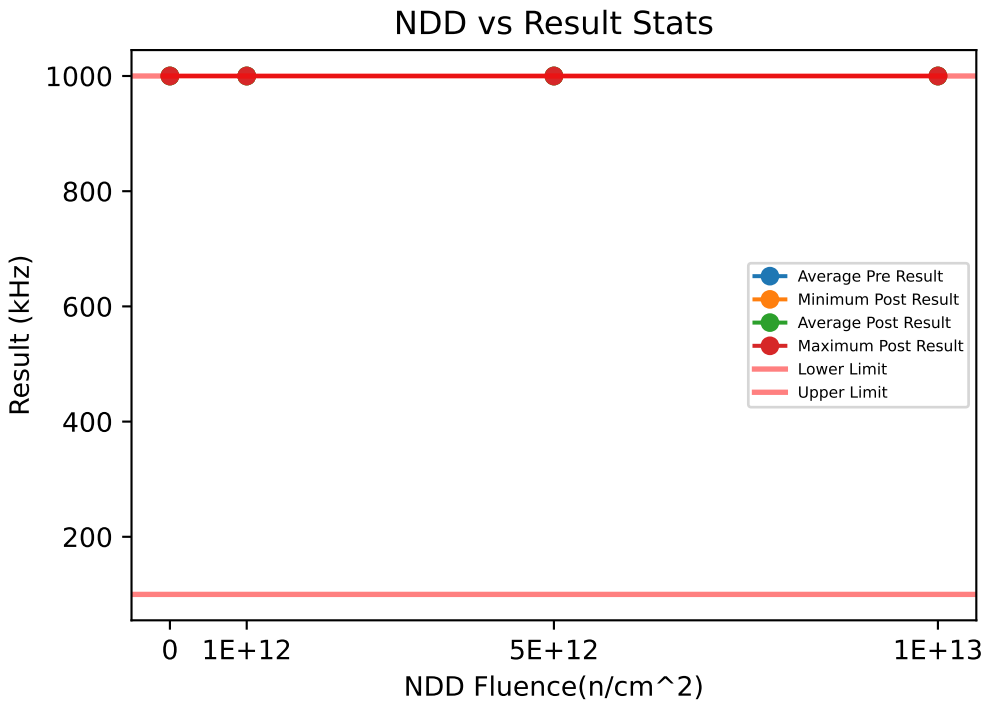
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	499.94	500.02	0.0716
266	1e+12	NDD	499.94	500.08	0.1387
267	1e+12	NDD	499.98	500.06	0.0784
288	1e+12	NDD	499.96	500.03	0.0684
348	5e+12	NDD	499.94	500.01	0.0649
353	5e+12	NDD	499.94	500.05	0.1122
370	5e+12	NDD	499.98	500.07	0.0865
377	5e+12	NDD	499.97	500.06	0.0925
389	1e+13	NDD	499.95	500.01	0.0573
394	1e+13	NDD	499.95	500.04	0.0942
395	1e+13	NDD	499.97	500.07	0.0991
571	1e+13	NDD	499.97	500.01	0.0334
649	0	CORRELATION	499.96	500.05	0.0855
662	0	CORRELATION	499.96	500.07	0.1101
690	0	CORRELATION	499.95	500.03	0.0816
708	0	CORRELATION	499.96	500.02	0.0645

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	499.96	499.96	0.0053631	500.02	500.04	500.07	0.020903	0.0645	0.085425	0.1101	0.018809
1e+12	499.94	499.96	499.98	0.020539	500.02	500.05	500.08	0.028081	0.0684	0.089275	0.1387	0.033213
5e+12	499.94	499.96	499.98	0.019409	500.01	500.05	500.07	0.027315	0.0649	0.089025	0.1122	0.019473
1e+13	499.95	499.96	499.97	0.011759	500.01	500.03	500.07	0.029622	0.0334	0.071	0.0991	0.031248



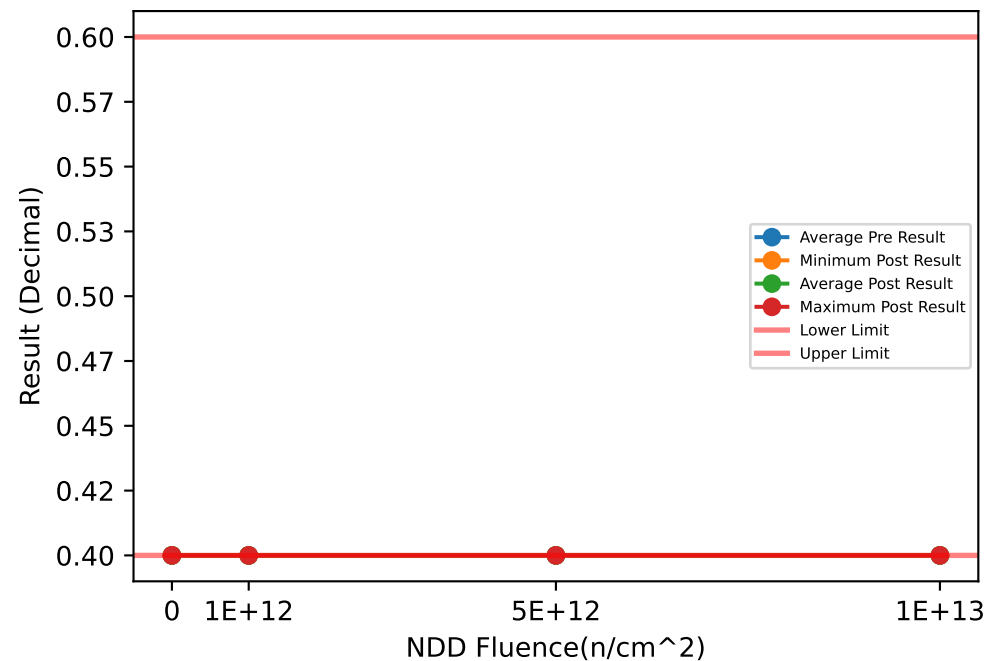
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	1000	1000	0
266	1e+12	NDD	1000	1000	0
267	1e+12	NDD	1000	1000	0
288	1e+12	NDD	1000	1000	0
348	5e+12	NDD	1000	1000	0
353	5e+12	NDD	1000	1000	0
370	5e+12	NDD	1000	1000	0
377	5e+12	NDD	1000	1000	0
389	1e+13	NDD	1000	1000	0
394	1e+13	NDD	1000	1000	0
395	1e+13	NDD	1000	1000	0
571	1e+13	NDD	1000	1000	0
649	0	CORRELATION	1000	1000	0
662	0	CORRELATION	1000	1000	0
690	0	CORRELATION	1000	1000	0
708	0	CORRELATION	1000	1000	0

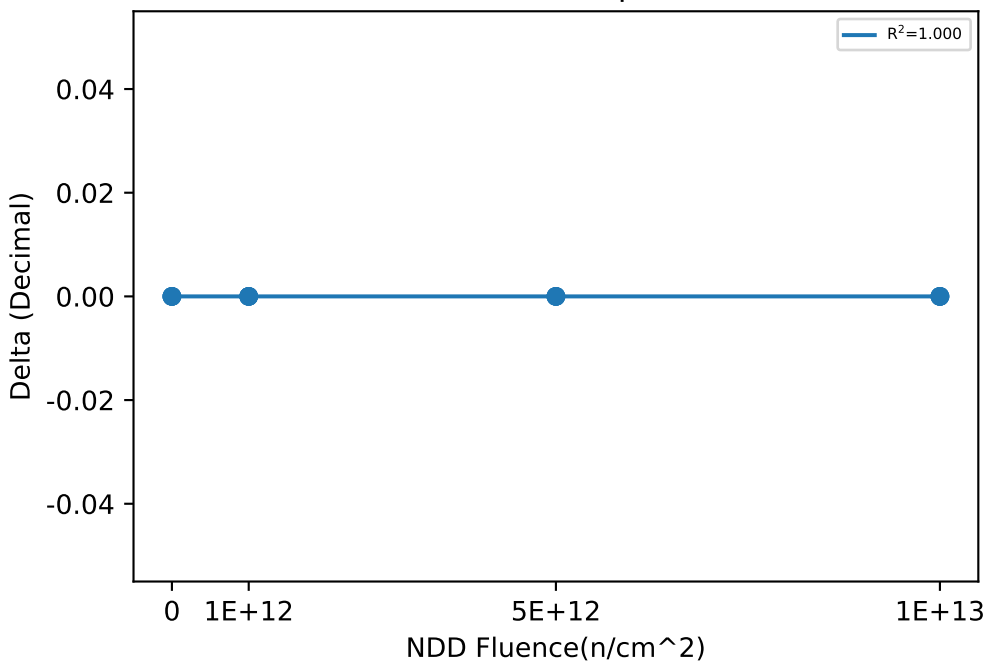
Test Statistics (kHz)

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



NDD vs Post - Pre Exposure Delta



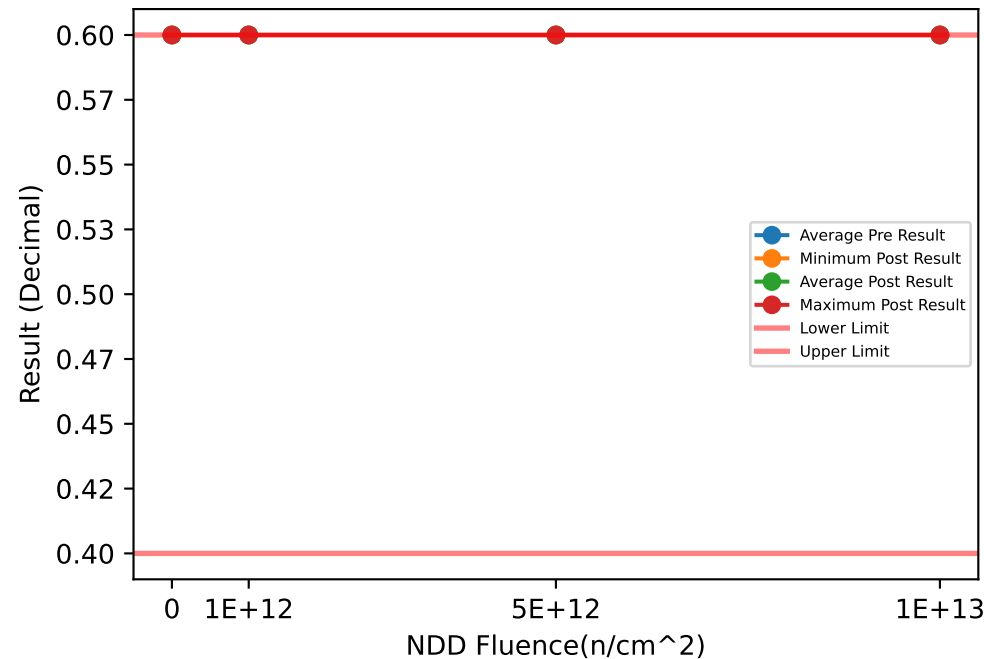
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Decimal))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.4	0.4	0
266	1e+12	NDD	0.4	0.4	0
267	1e+12	NDD	0.4	0.4	0
288	1e+12	NDD	0.4	0.4	0
348	5e+12	NDD	0.4	0.4	0
353	5e+12	NDD	0.4	0.4	0
370	5e+12	NDD	0.4	0.4	0
377	5e+12	NDD	0.4	0.4	0
389	1e+13	NDD	0.4	0.4	0
394	1e+13	NDD	0.4	0.4	0
395	1e+13	NDD	0.4	0.4	0
571	1e+13	NDD	0.4	0.4	0
649	0	CORRELATION	0.4	0.4	0
662	0	CORRELATION	0.4	0.4	0
690	0	CORRELATION	0.4	0.4	0
708	0	CORRELATION	0.4	0.4	0

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

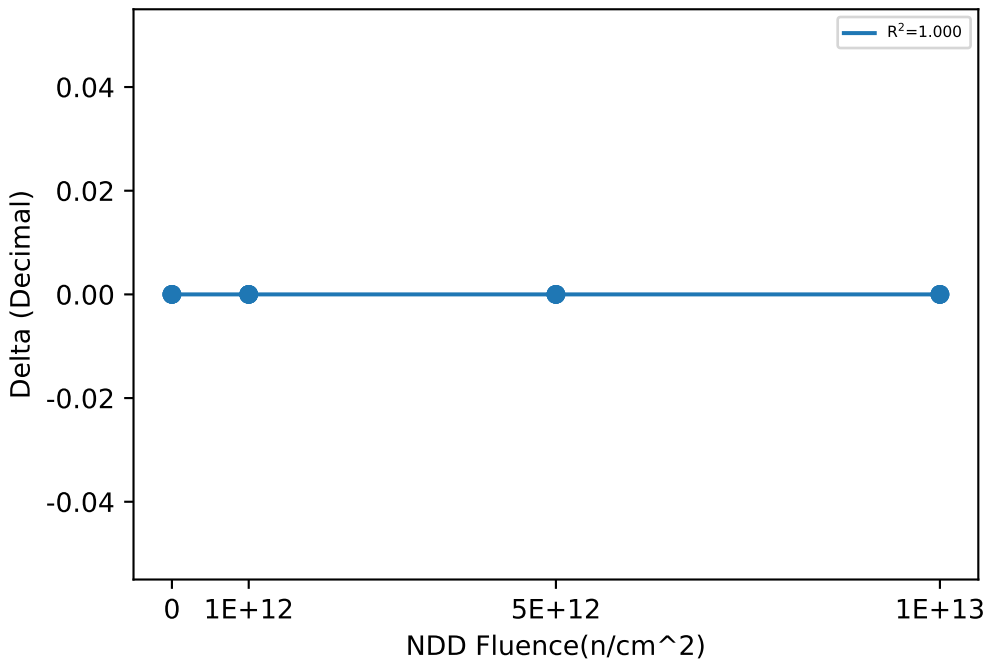
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	0.6	0.6	0
266	1e+12	NDD	0.6	0.6	0
267	1e+12	NDD	0.6	0.6	0
288	1e+12	NDD	0.6	0.6	0
348	5e+12	NDD	0.6	0.6	0
353	5e+12	NDD	0.6	0.6	0
370	5e+12	NDD	0.6	0.6	0
377	5e+12	NDD	0.6	0.6	0
389	1e+13	NDD	0.6	0.6	0
394	1e+13	NDD	0.6	0.6	0
395	1e+13	NDD	0.6	0.6	0
571	1e+13	NDD	0.6	0.6	0
649	0	CORRELATION	0.6	0.6	0
662	0	CORRELATION	0.6	0.6	0
690	0	CORRELATION	0.6	0.6	0
708	0	CORRELATION	0.6	0.6	0

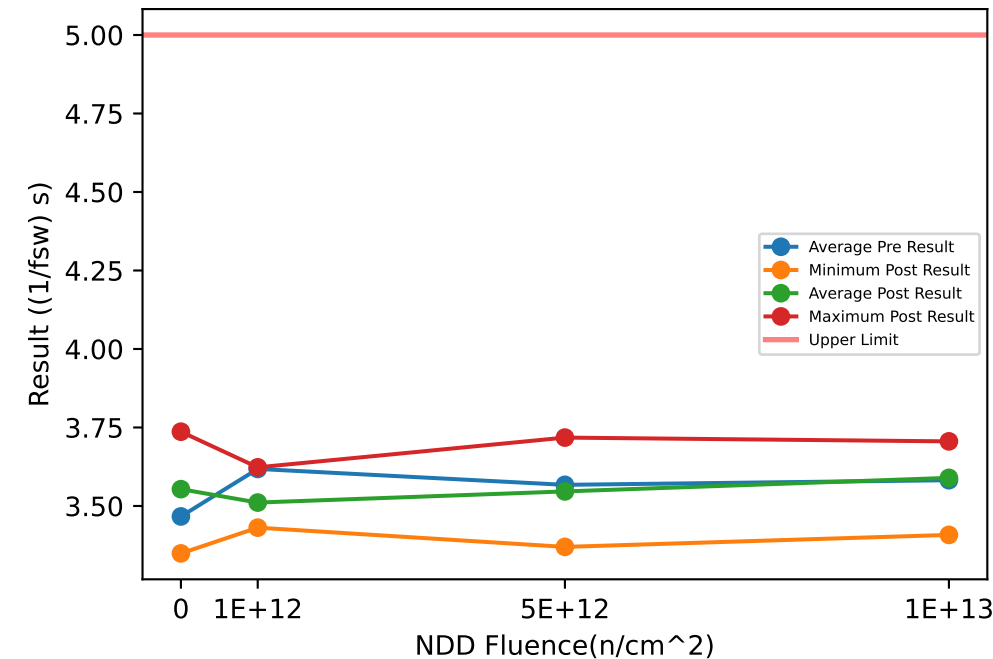
NDD vs Post - Pre Exposure Delta



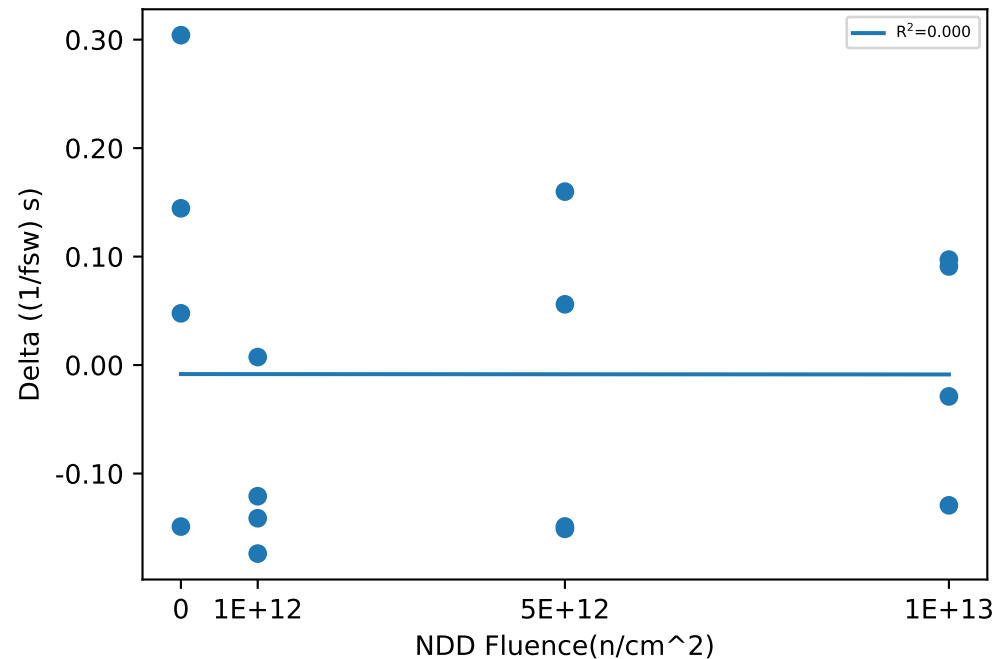
Test Statistics (Decimal)

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



NDD vs Post - Pre Exposure Delta



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
254	1e+12	NDD	3.6303	3.4565	-0.1738
266	1e+12	NDD	3.5722	3.431	-0.1412
267	1e+12	NDD	3.6157	3.6231	0.0074
288	1e+12	NDD	3.6539	3.533	-0.1209
348	5e+12	NDD	3.651	3.5022	-0.1488
353	5e+12	NDD	3.5579	3.7178	0.1599
370	5e+12	NDD	3.5398	3.5958	0.056
377	5e+12	NDD	3.5207	3.3697	-0.151
389	1e+13	NDD	3.5372	3.4079	-0.1293
394	1e+13	NDD	3.505	3.6022	0.0972
395	1e+13	NDD	3.7347	3.7058	-0.0289
571	1e+13	NDD	3.5514	3.6423	0.0909
649	0	CORRELATION	3.5637	3.6114	0.0477
662	0	CORRELATION	3.4979	3.349	-0.1489
690	0	CORRELATION	3.4325	3.7366	0.3041
708	0	CORRELATION	3.3727	3.5172	0.1445

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	3.3727	3.4667	3.5637	0.082438	3.349	3.5535	3.7366	0.16332	-0.1489	0.08685	0.3041	0.18941
1e+12	3.5722	3.618	3.6539	0.034366	3.431	3.5109	3.6231	0.08645	-0.1738	-0.10713	0.0074	0.079399
5e+12	3.5207	3.5674	3.651	0.057798	3.3697	3.5464	3.7178	0.14719	-0.151	-0.020975	0.1599	0.1548
1e+13	3.505	3.5821	3.7347	0.10359	3.4079	3.5896	3.7058	0.12839	-0.1293	0.007475	0.0972	0.10808

6 Revision History

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

Changes from Revision * (November 2025) to Revision A (December 2025)	Page
• Updated device information to match the datasheet.....	2
• Updated the appendix data, as well as added a decoder to serve as a reference for the appendix.....	9

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