

TPS7H4011 Plastic Neutron Displacement Damage (NDD) Characterization Report



ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the Texas Instruments TPS7H4011 plastic. The TPS7H4011 plastic showed a strong degree of hardness to neutron irradiation up to fluence level $1 \times 10^{13} \text{ n/cm}^2$.

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. 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 TPS7H4011 is a 14V, 12A 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 TPS7H4011 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	TPS7H4011-SP
TI Part Name	5962R2122102PYE
Package	44-pin DDW (HTSSOP)
Technology	Linear BiCMOS (LBC7)
Lot Number / Date Code	539131/56AVQ2K
Sample Quantity	12+4 control unit
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. TPS7H4011-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 TPS7H4011-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}	Unbiased
B	4	5.0×10^{12}	Unbiased
C	4	1.0×10^{13}	Unbiased
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 nine units was exposed for neutron irradiation and an additional four unirradiated control units were used as correlation. Overall, the TPS7H4011-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. See [Table 3-1](#) for electrical parameters and associated tests. 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 Data Sheet Electrical Parameter Characteristics

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

Table 3-1. Data Sheet Electrical Parameter Characteristics

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
POWER SUPPLIES AND CURRENTS									
V _{UVLOR_PVIN}	PVIN internal UVLO rising threshold			1, 2, 3	3.2	3.4	3.6	V	14.1,14.7, 14.13, 14.19
V _{UVLOHYST_PVIN}	PVIN internal UVLO hysteresis			1, 2, 3	425	450	500	mV	14.3, 14.9, 14.15, 14.21
V _{UVLOR_VIN}	VIN internal UVLO rising threshold			1, 2, 3	3.4	3.6	3.8	V	14.4, 14.10, 14.16, 14.22
V _{UVLOHYST_VIN}	VIN internal UVLO hysteresis			1, 2, 3	140	155	170	mV	14.6, 14.12, 14.18, 14.24
I _{SHDN_VIN}	VIN shutdown supply current	V _{EN} = 0V	VIN = 4.5V	1, 2, 3		2	2.9	mA	12.1
			VIN = 14V	1, 2, 3		2	3		12.16
I _{SHDN_PVIN}	PVIN shutdown supply current	V _{EN} = 0V	PVIN = 4.5V	1, 2, 3		2.6	3.5	mA	12.2
			PVIN = 14V	1, 2, 3		3.5	4.7		12.17
I _{Q_VIN}	VIN operating quiescent current (non switching)	V _{EN} = 7V, V _{SENSE} = 1V		1, 2, 3		2.6	5	mA	12.3, 12.8, 12.13, 12.18
ENABLE AND FAULT									
V _{EN(rising)}	Enable rising threshold (turn-on)			1, 2, 3	0.555	0.61	0.655	V	15.3, 15.6, 15.9, 15.12
V _{EN(falling)}	Enable falling threshold (turn-off)			1, 2, 3	0.455	0.51	0.554		15.4, 15.7, 15.10, 15.13
t _{EN(delay)}	Enable propogation delay	EN high to SW high, SS pin open		1, 2, 3		52	100	μs	24.32, 24.72, 24.112, 24.152
I _{EN(LKG)}	Enable input leakage current	V _{EN} = 7V		1, 2, 3		2	100	nA	15.1, 15.15
V _{FAULT(rising)}	FAULT threshold rising (turn-off)			1, 2, 3	0.555	0.6	0.635	V	16.1, 16.5, 16.9, 16.13
V _{FAULT(falling)}	FAULT threshold falling (turn-on)			1, 2, 3	0.455	0.5	0.535		16.2,16.6, 16.10, 16.14
V _{FAULT(HYS)}	FAULT hysteresis voltage			1, 2, 3	90	100	110	mV	16.3, 16.7, 16.11, 16.15
I _{FAULT(LKG)}	Fault input leakage current	V _{FAULT} = 7V		1, 2, 3		3	5	μA	16.4, 16.8, 16.12, 16.16
t _{FAULT(min)}	FAULT minimum puls width			9, 10, 11	0.4		1.4	μs	24.39, 24.79, 24.119, 24.159

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
t _{FAULT(delay)}	FAULT delay duration			9, 10, 11	26	31	44	(1/f _{sw}) s	24.34, 24.36, 24.38, 24.74, 24.76, 24.78, 24.114, 24.116, 24.118, 24.154, 24.156, 24.158
VOLTAGE REFERENCE AND REMOTE SENSE									
V _{REF}	Internal voltage reference (including error amplifier V _{IO})	See data sheet for more info	T _A = −55°C	3	0.595	0.598	0.603	V	
			T _A = 25°C	1	0.596	0.6	0.603		17.3,17.11, 17.19, 17.27
			T _A = 125°C	2	0.596	0.599	0.603		
V _{REF(internal)}	Internal voltage reference (without error amplifier included)	V _{REF(internal)} = V _{SS_TR} − VSNS-		1, 2, 3	0.593	0.6	0.606	V	17.1, 17.9, 17.17, 17.25
V _{BG}	Bandgap voltage (voltage at the REFCAP pin)	C _{REFCAP} = 470nF		1, 2, 3	1.184	1.2	1.222	V	12.5,12.10, 12.15, 12.20
I _{VSNS+(LKG)}	VSNS+ input leakage current	VSNS+ = 0.6V		1, 2, 3		10	30	nA	17.5, 17.13, 17.21, 17.29
I _{VSNS-}	VSNS- output current			1, 2, 3	8	10	12	μA	17.4, 17.12, 17.20, 17.28
ERROR AMPLIFIER									
V _{IO}	Error amplifier input offset voltage	VSENSE = 0.6V		1, 2, 3	−2.3		2.9	mV	17.2, 17.10, 17.18, 17.26
g _{mEA}	Error amplifier transconductance	−10μA < I _{COMP} < 10μA, V _{COMP} = 1V	T _A = −55°C	11	1400	2050	2700	μS	
			T _A = 25°C	9	1200	1650	2100		18.1,18.4, 18.7, 18.10
			T _A = 125°C	10	1000	1250	1500		
EA _{DC}	Error amplifier DC gain	VSENSE = 0.6V				11500		V/V	
EA _{ISRC}	Error amplifier source	V _{COMP} = 1V, 100mV input overdrive		1, 2, 3	90	125	200	μA	18.2,18.5, 18.8, 18.11
EA _{ISNK}	Error amplifier sink				90	125	200		18.3, 18.6, 18.9, 18.12
EA _{Ro}	Error amplifier output resistance					7		MΩ	
EA _{BW}	Error amplifier bandwidth					9		MHz	
g _{mps}	Power stage transconductance, 18.3A (typ) current limit	I _{OUT} = 12, I _{LM} = AVDD	T _A = −55°C	3	14.4	19.4	24.8	S	
			T _A = 25°C	1	15.2	20.4	26.1		20.12, 20.46, 20.80, 20.114
			T _A = 125°C	2	16	21	27		
g _{mps}	Power stage transconductance, 13.4A (typ) current limit	I _{OUT} = 9A, R _{ILIM_TOP} = 49.9kΩ, R _{ILIM_BOT} = 100kΩ	T _A = −55°C	3	9.3	13.3	17	S	
			T _A = 25°C	1	9.6	13.8	17.5		20.13, 20.47, 20.81, 20.115
			T _A = 125°C	2	9.7	14	18.1		
g _{mps}	Power stage transconductance, 18.3A (typ) current limit	V _{COMP} = 0.6V, I _{LM} = AVDD		1, 2, 3	17.8	22.4	28.3	S	20.18, 20.52, 20.86, 20.120
g _{mps}	Power stage transconductance, 13.4A (typ) current limit	V _{COMP} = 0.65V, R _{ILIM_TOP} =49.9kΩ, R _{ILIM_BOT} = 100kΩ		1, 2, 3	12.8	16.1	20.6	S	20.19, 20.53, 20.87, 20.121
g _{mps}	Power stage transconductance, 9A (typ) current limit	V _{COMP} = 0.65V, R _{ILIM_TOP} =100kΩ, R _{ILIM_BOT} = 49.9kΩ		1, 2, 3	8	11	15.5	S	20.20, 20.54, 20.88, 20.122
g _{mps}	Power stage transconductance, 5.6A (typ) current limit	V _{COMP} = 0.75V, I _{LM} = GND		1, 2, 3	4.6	7.2	9.2	S	20.21, 20.55, 20.89, 20.123

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
OVERCURRENT PROTECTION									
I _{OC_HS1}	High-side switch current limit threshold 1	R _{SHORT} = 100mΩ	ILIM = GND	1, 2, 3		5.6	7.5	A	
			R _{ILIM_T} = 100kΩ, R _{ILIM_B} = 49.9kΩ	1, 2, 3		9	11.9		20.5, 20.39, 20.73, 20.107
			R _{ILIM_T} = 49.9kΩ, R _{ILIM_B} = 100kΩ	1, 2, 3		13.4	17.8		20.10, 20.44, 20.78, 20.112
			ILIM = AVDD	1, 2, 3		18.3	24.9		20.7, 20.41, 20.75, 20.109
I _{OC_HS2}	High-side switch current limit threshold 2	VIN = 12V, R _{SHORT} ≈ 4mΩ	ILIM = GND			6.6		A	20.8, 20.42, 20.76, 20.110
			R _{ILIM_T} = 100kΩ, R _{ILIM_B} = 49.9kΩ			11.1			20.9, 20.43, 20.77, 20.111
			R _{ILIM_T} = 49.9kΩ, R _{ILIM_B} = 100kΩ			17			20.10, 20.44, 20.78, 20.112
			ILIM = AVDD			23.9			20.11, 20.45, 20.79, 20.113
I _{OC_LS(sink)}	Low-side switch sinking overcurrent threshold	T _A = −55°C		3	1.6	2.3	3.6	A	
		T _A = 25°C		1	1.5	2.2	3.3		19.2,19.5, 19.8, 19.11
		T _A = 125°C		2	1.4	2	2.8		
I _{ILIM(lkg)}	ILIM input leakage current	ILIM = 7V		1, 2, 3		2	100	nA	15.2,15.16
COMP _{SHDN}	COMP shutdown voltage			1, 2, 3	1.7	1.9	2.1	V	22.1,22.7, 22.13,22.19
t _{COMP(delay)}	COMP shutdown delay					30		μs	
SOFT START AND TRACKING									
t _{SS}	Soft start time	V _{SS_TR} from 10% to 90%, V _{SNS} - = GND, V _{OUT(set)} = 3.3V	C _{SS} = 5.6nF			1.5		ms	22.4,22.10, 22.16,22.22
			C _{SS} = 22nF	9, 10, 11	4.7	5.8	7.3		22.5,22.11, 22.17,22.23
			C _{SS} = 100nF			24.7			22.6,22.12, 22.18,22.24
R _{SS(discharge)}	Soft start discharge pull-down resistor			1, 2, 3	200	442	700	Ω	22.2,22.8, 22.14,22.20
SS _{startup}	Maximum voltage on SS before startup (5)					20		mV	22.3,22.9, 22.15,22.21

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

PARAMETER			TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
SLOPE COMPENSATION										
SC	Slope compensation with 18.3A (typ) current limit	f _{SW} = 100kHz, ILIM = AVDD	R _{SC} = 1.1MΩ			−0.7		A/μs		
		f _{SW} = 500kHz, ILIM = AVDD	R _{SC} = 80.6kΩ			−8.8				
			R _{SC} = 196kΩ			−4.2				
			R _{SC} = 1.1MΩ			−1.2				
			R _{SC} = 80.6kΩ			−10.5				
		f _{SW} = 1000kHz, ILIM = AVDD	R _{SC} = 196kΩ			−5.1				
		R _{SC} = 1.1MΩ			−2.1					
	Slope compensation with 13.4A (typ) current limit	f _{SW} = 500kHz, R _{ILIM_TOP} = 49.9kΩ, R _{ILIM_BOT} = 100kΩ	R _{SC} = 196kΩ			−3.2		A/μs		
	Slope compensation with 9A (typ) current limit	f _{SW} = 500kHz, R _{ILIM_TOP} = 100kΩ, R _{ILIM_BOT} = 49.9kΩ	R _{SC} = 196kΩ			−2.4		A/μs		
	Slope compensation with 5.6A (typ) current limit	f _{SW} = 500kHz, ILIM = GND	R _{SC} = 196kΩ			−1.8		A/μs		
MINIMUM ON TIME AND DEAD TIME										
t _{on(min)}	Minimum on time	50% to 50% of VIN, I _{SW} = 2A	VIN = 4.5V	9, 10, 11		210	235	ns	24.31	
			VIN = 5V	9, 10, 11		213	250		24.71	
			VIN = 12V	9, 10, 11		199	250		24.111	
			VIN = 14V	9, 10, 11		199	250		24.151	
t _{off(min)}	Minimum off time	I _{SW} = 2A				306		ns		
t _{dead}	Dead time					70		ns	24.4, 24.8, 24.12, 24.16	
SWITCHING FREQUENCY AND SYNCHRONIZATION										
f _{SW}	RT programmed switching frequency	R _{RT} = 511kΩ		4, 5, 6	90	100	120	kHz	24.14, 24.15, 24.54, 24.55, 24.94, 24.95, 24.134, 24.135	
		R _{RT} = 90.9kΩ		4, 5, 6	450	500	550		24.26, 24.27, 24.66, 24.67, 24.106, 24.107, 24.146, 24.147	
		R _{RT} = 40.2kΩ	VIN = 4.5V	4, 5, 6	850	1000	1150		24.28, 24.29	
			5V ≤ VIN ≤ 14V	4, 5, 6	870	1000	1170		24.68, 24.69, 24.108, 24.109, 24.148, 24.149	
t _{SYNC_R}	SYNC1 out low-to-high rise time (10% to 90%)	Cload = 25pF, see see SYNCx Rise and Fall Time		9, 10, 11		10	21	ns	24.18, 24.19, 24.58, 24.59, 24.98, 24.99, 24.138, 24.139	
t _{SYNC_F}	SYNC1 out high-to-low fall time (90% to 10%)	Cload = 25pF, see SYNCx Rise and Fall Time		9, 10, 11		10	21	ns	24.20, 24.21, 24.60, 24.61, 24.100, 24.101, 24.140, 24.141	
SYNC _{PH_2_1}	SYNC2 to SYNC1 rising edge phase shift	SYNCM = GND		9, 10, 11	82	90	98	°	24.17, 24.57, 24.97, 24.137	

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS
t _{SYNC_D}	SYNC1 to SW delay	Non-inverted SYNC1 input (SYNC2 = AVDD, SYNCM = AVDD)	VIN = 4.5V	9, 10, 11	140	225	350	ns	24.2
			5V ≤ VIN ≤ 14V	9, 10, 11	120	210	270		24.42, 24.82,24.122
			VIN = 12V, IOUT = 12A			224			
		Inverted SYNC1 input (SYNC2 = GND, SYNCM = AVDD)	VIN = 4.5V	9, 10, 11	150	256	390	ns	24.3
			5V ≤ VIN ≤ 14V	9, 10, 11	140	240	300		24.43, 24.83,24.123
			VIN = 12V, IOUT = 12A			246			
		SYNC1 output (SYNCM = GND)	VIN = 4.5V	9, 10, 11	110	180	280	ns	24.16
			5V ≤ VIN ≤ 14V	9, 10, 11	90	175	250		24.56, 24.96,24.136
			VIN = 12V, IOUT = 12A			184			
V _{SYNCx(OH)}	SYNC1, SYNC2 output high	SNYCM = GND, I _{OH} = 2mA	4.5V ≤ VIN ≤ 5V	1, 2, 3	VIN–0.3		V	24.22, 24.23,24.62, 24.63	
			VIN > 5V	1, 2, 3	4.5	5		5.2	24.102,24.103,24.142,24.143
V _{SYNCx(OL)}	SYNC1, SYNC2 output low	SYNCM = GND, I _{OL} = 2mA		1, 2, 3			0.4	V	24.24, 24.25,24.64, 24.65,24.104,24.105,24.144,24.145
V _{SYNC1(IH)}	SYNC1 input high threshold	SYNCM = AVDD		1, 2, 3			1.7	V	24.4,24.44, 24.84,24.124
V _{SYNC1(IL)}	SYNC1 input low threshold	SYNCM = AVDD		1, 2, 3	0.7				24.5,24.45, 24.85,24.125
f _{SYNC}	SYNC1 input frequency range	SYNCM = AVDD		4, 5, 6	100		1000	kHz	24.1,24.8, 24.9,24.41, 24.48,24.49, 24.81,24.88, 24.89,24.121,24.128,24.129
D _{SYNC}	SYNC1 input duty cycle range	SYNCM = AVDD, external clock duty cycle		4, 5, 6	40%		60%		24.10, 24.11,24.50, 24.51,24.90, 24.91,24.130,24.131
t _{CLK_E_I}	External clock to internal clock detection time	SYNCM = AVDD, RT populated		9, 10, 11		2	5	(1/f _{sw}) s	24.12, 24.52,24.92, 24.132
t _{CLK_I_E}	Internal clock to external clock detection time	SYNCM = AVDD, RT populated		9, 10, 11		1	2	(1/f _{sw}) s	24.13, 24.53,24.93, 24.133
POWER GOOD AND THERMAL SHUTDOWN									
PWRGD _{LOW} _F%	PWRGD falling threshold (fault), low	Threshold for PWRGD (VSENSE as percent of V _{REF}). VSNS= 0V	VSENSE falling	1, 2, 3	90%	92%	95%		23.2,23.9, 23.16,23.23
PWRGD _{LOW} _R%	PWRGD rising threshold (good), low		VSENSE rising	1, 2, 3	93%	95%	98%		23.3,23.10, 23.17,23.24
PWRGD _{HIGH} _R%	PWRGD rising threshold (fault), high		VSENSE rising	1, 2, 3	106%	108%	112%		23.4,23.11, 23.18,23.25
PWRGD _{HIGH} _F%	PWRGD falling threshold (good), high		VSENSE falling	1, 2, 3	103%	105%	109%		23.5,23.12, 23.19,23.26
I _{PWRGD} (LKG)	Output high leakage	VSENSE = V _{REF} , V _{PWRGD} = 7V		1, 2, 3		50	500	nA	23.6,23.13, 23.20,23.27
V _{PWRGD} (OL)	Power good output low	I _{PWRGD} (SINK) = 0mA to 2mA		1, 2, 3		250	300	mV	23.7,23.14, 23.21,23.28

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

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT	TEST NUMBERS	
V _{IN(MIN_PWRG D)}	Minimum VIN for valid PWRGD output	Measured when V _{PWRGD} ≤ 0.5V at 100μA		1, 2, 3		1	2	V	23.1	
T _{SD(enter)}	Thermal shutdown enter temperature					170		°C		
T _{SD(exit)}	Thermal shutdown exit temperature					135				
T _{SD(HYS)}	Thermal shutdown hysteresis					35				
MOSFET										
R _{DS_ON_HS}	High-side switch resistance at I _{HS} = 12A (lead length ≈ 3mm)	P _{VIN} = VIN = 4.5V	T _A = –55°C	3		38	53	mΩ		
			T _A = 25°C	1		50	61		20.2,20.3	
			T _A = 125°C	2		64	79			
		P _{VIN} = VIN = 5V	T _A = –55°C	3		36	50		20.36, 20.37	
			T _A = 25°C	1		48	60			
			T _A = 125°C	2		62	73			
		P _{VIN} = VIN = 12V	T _A = –55°C	3		34	45		20.70, 20.71	
			T _A = 25°C	1		45	53			
			T _A = 125°C	2		59	67			
		P _{VIN} = VIN = 14V	T _A = –55°C	3		34	45		20.104,20.105	
			T _A = 25°C	1		45	53			
			T _A = 125°C	2		59	67			
R _{DS_ON_LS}	Low-side switch resistance at I _{LS} = 12A (lead length ≈ 3mm)	P _{VIN} = VIN = 4.5V	T _A = –55°C	3		25	40	mΩ		
			T _A = 25°C	1		35	51		21.2,21.3	
			T _A = 125°C	2		51	61			
		P _{VIN} = VIN = 5V	T _A = –55°C	3		23	35		21.8,21.9	
			T _A = 25°C	1		33	45			
			T _A = 125°C	2		48	56			
		P _{VIN} = VIN = 12V	T _A = –55°C	3		23	32		21.14, 21.15	
			T _A = 25°C	1		33	42			
			T _A = 125°C	2		47	55			
		P _{VIN} = VIN = 14V	T _A = –55°C	3		23	32		21.20, 21.21	
			T _A = 25°C	1		33	42			
			T _A = 125°C	2		47	55			

Table 3-2. Data Sheet Electrical Parameter Characteristics - Plastic (HTSSOP) Package

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
VOLTAGE REFERENCE AND REMOTE SENSE								
V _{REF}	Internal voltage reference (including error amplifier V _{IO})	see	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	0.599	0.604	
V _{REF(internal)}	Internal voltage reference (without error amplifier included)	V _{REF(internal)} = V _{SS_TR} – V _{SNS} -		1, 2, 3	0.593	0.6	0.607	V
ERROR AMPLIFIER								
g _{mps}	Power stage transconductance, 17.5A (typ) current limit	I _{OUT} = 12A, I _{LIM} = AVDD	T _A = –55°C	3	14.4	19.4	24.8	S
			T _A = 25°C	1	15.2	20.1	26.1	
			T _A = 125°C	2	15.7	20.2	26.7	
g _{mps}	Power stage transconductance, 12.8A (typ) current limit	I _{OUT} = 9A, R _{LIM_TOP} = 49.9kΩ, R _{LIM_BOT} = 100kΩ	T _A = –55°C	3	9.3	13.3	17	S
			T _A = 25°C	1	9.5	13.5	17.5	
			T _A = 125°C	2	9	13.2	17.7	
g _{mps}	Power stage transconductance, 17.5A (typ) current limit	V _{COMP} = 0.6V, I _{LIM} = AVDD		1, 2, 3	17.8	22.4	28.3	S
g _{mps}	Power stage transconductance, 12.8A (typ) current limit	V _{COMP} = 0.65V, R _{LIM_TOP} = 49.9kΩ, R _{LIM_BOT} = 100kΩ		1, 2, 3	12.8	16.1	20.6	S

Table 3-2. Data Sheet Electrical Parameter Characteristics - Plastic (HTSSOP) Package (continued)

PARAMETER		TEST CONDITIONS		SUB-GROUP	MIN	TYP	MAX	UNIT
g_{mps}	Power stage transconductance, 9A (typ) current limit	$V_{COMP} = 0.7V$, $R_{ILIM_TOP} = 100k\Omega$, $R_{ILIM_BOT} = 49.9k\Omega$		1, 2, 3	8	11	15.5	S
g_{mps}	Power stage transconductance, 5.6A (typ) current limit	$V_{COMP} = 0.75V$, $ILIM = GND$		1, 2, 3	4.6	7.2	9.2	S
OVERCURRENT PROTECTION								
I_{OC_HS1}	High-side switch current limit threshold 1	$R_{SHORT} = 100m\Omega$	$ILIM = GND$	1, 2, 3		5.3	7.4	A
			$R_{ILIM_T} = 100k\Omega$, $R_{ILIM_B} = 49.9k\Omega$	1, 2, 3		8.6	11.7	
			$R_{ILIM_T} = 49.9k\Omega$, $R_{ILIM_B} = 100k\Omega$	1, 2, 3		12.8	17.5	
			$ILIM = AVDD$	1, 2, 3		17.5	24.3	
I_{OC_HS2}	High-side switch current limit threshold 2	$V_{IN} = 12V$, $R_{SHORT} \approx 4m\Omega$	$ILIM = GND$			6.6		A
			$R_{ILIM_T} = 100k\Omega$, $R_{ILIM_B} = 49.9k\Omega$			11.1		
			$R_{ILIM_T} = 49.9k\Omega$, $R_{ILIM_B} = 100k\Omega$			17		
			$ILIM = AVDD$			23.9		
MOSFET								
$R_{DS_ON_HS}$	High-side switch resistance at $I_{HS} = 12A$	$PV_{IN} = V_{IN} = 4.5V$	$T_A = -55^{\circ}C$	3		29	44	m Ω
			$T_A = 25^{\circ}C$	1		37	50	
			$T_A = 125^{\circ}C$	2		47	65	
		$PV_{IN} = V_{IN} = 5V$	$T_A = -55^{\circ}C$	3		27	39	
			$T_A = 25^{\circ}C$	1		35	47	
			$T_A = 125^{\circ}C$	2		44	58	
		$PV_{IN} = V_{IN} = 12V$	$T_A = -55^{\circ}C$	3		24	35	
			$T_A = 25^{\circ}C$	1		31	43	
			$T_A = 125^{\circ}C$	2		39	53	
		$PV_{IN} = V_{IN} = 14V$	$T_A = -55^{\circ}C$	3		24	35	
			$T_A = 25^{\circ}C$	1		31	43	
			$T_A = 125^{\circ}C$	2		39	53	
$R_{DS_ON_LS}$	Low-side switch resistance at $I_{LS} = 12A$	$PV_{IN} = V_{IN} = 4.5V$	$T_A = -55^{\circ}C$	3		20	33	m Ω
			$T_A = 25^{\circ}C$	1		28	41	
			$T_A = 125^{\circ}C$	2		41	52	
		$PV_{IN} = V_{IN} = 5V$	$T_A = -55^{\circ}C$	3		20	31	
			$T_A = 25^{\circ}C$	1		27	39	
			$T_A = 125^{\circ}C$	2		39	49	
		$PV_{IN} = V_{IN} = 12V$	$T_A = -55^{\circ}C$	3		19	28	
			$T_A = 25^{\circ}C$	1		27	36	
			$T_A = 125^{\circ}C$	2		38	48	
		$PV_{IN} = V_{IN} = 14V$	$T_A = -55^{\circ}C$	3		19	28	
			$T_A = 25^{\circ}C$	1		27	36	
			$T_A = 125^{\circ}C$	2		38	48	

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H4011-SP and TPS7H4011-SEP 4.5V to 14V Input 12A Radiation Hardened Synchronous Buck Converter](#), datasheet.
- Texas Instruments, [TPS7H4011-SP \(TPS7H4011EVM-CVAL\) Evaluation Module User's Guide](#), user's guide.

4.2 Reference Documents

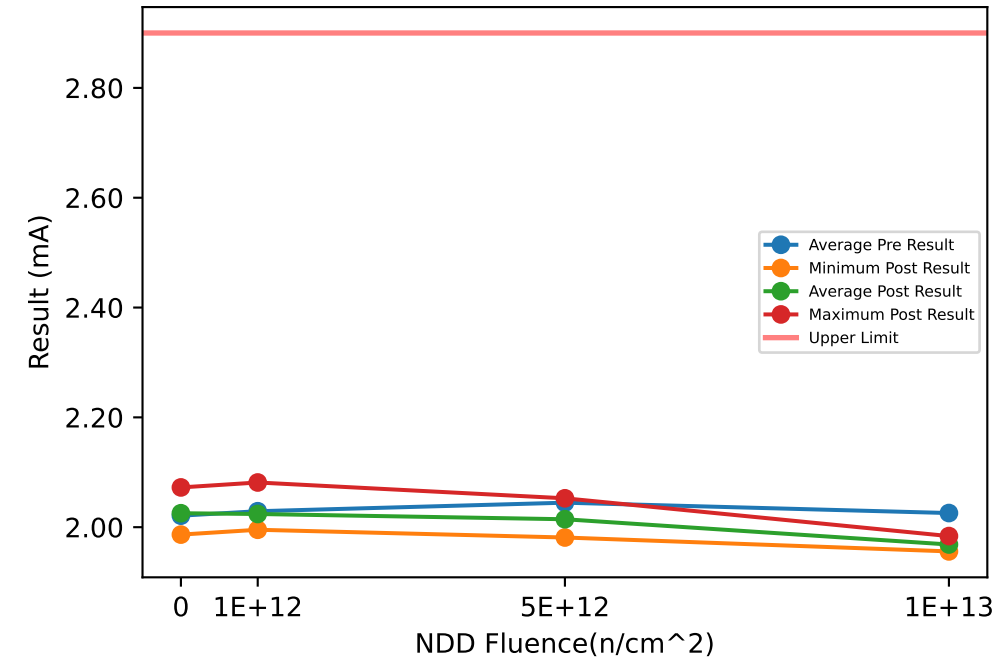
Texas Instruments neutron irradiation test follow the guideline from MIL-STD-883 TM 1017. The document is available in the Defense Logistic Agency's website.

A Appendix: NDD Report Data

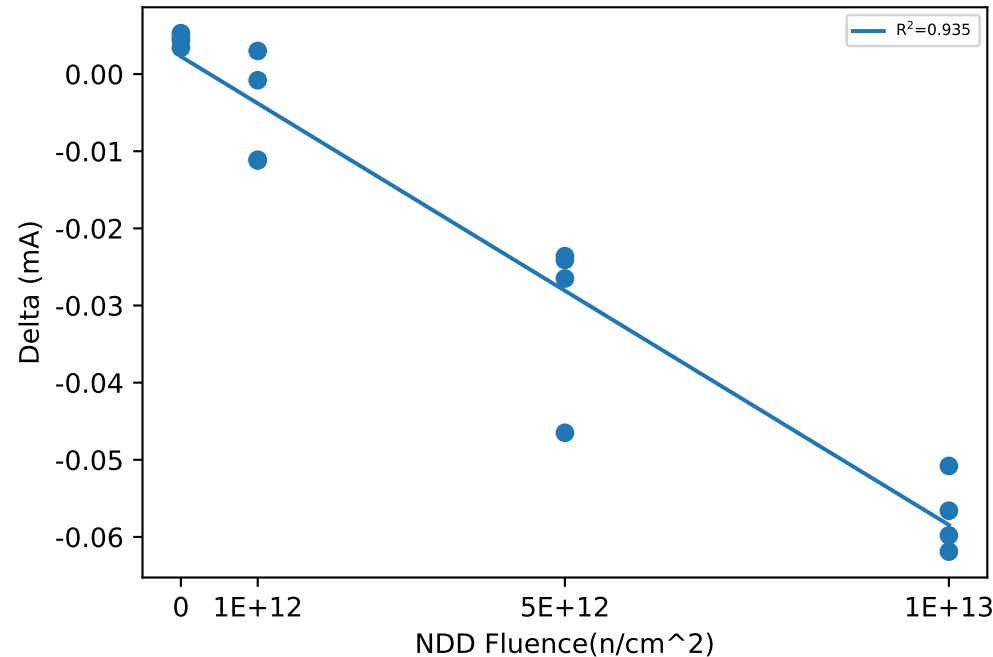
This appendix contains the NDD report data.

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 2.9 (mA))

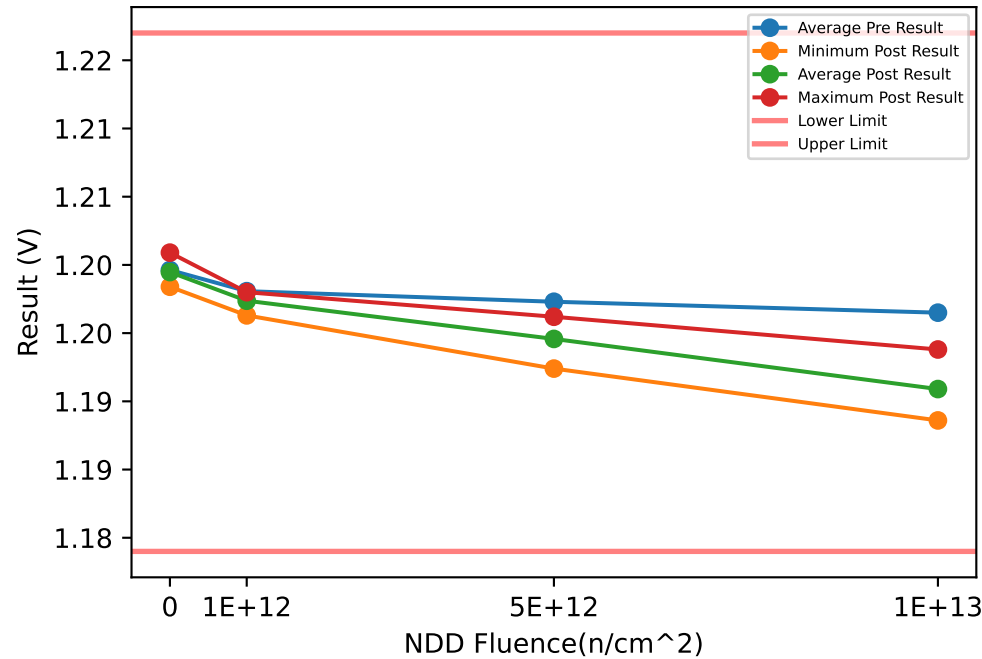
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.0308	2.0196	-0.0112
229	5e+12	NDD	2.05	2.0235	-0.0265
260	1e+13	NDD	2.0398	1.9779	-0.0619
301	1e+12	NDD	2.0925	2.0814	-0.0111
362	5e+12	NDD	2.047	2.0005	-0.0465
365	1e+13	NDD	2.0436	1.9838	-0.0598
439	1e+12	NDD	1.9968	1.9998	0.003
514	5e+12	NDD	2.0048	1.9812	-0.0236
577	1e+13	NDD	2.0125	1.9559	-0.0566
634	1e+12	NDD	1.9961	1.9953	-0.0008
635	5e+12	NDD	2.0767	2.0526	-0.0241
713	1e+13	NDD	2.0071	1.9563	-0.0508
732	0	CORRELATION	1.9925	1.9968	0.0043
742	0	CORRELATION	1.9818	1.9865	0.0047
879	0	CORRELATION	2.0425	2.0459	0.0034
880	0	CORRELATION	2.0671	2.0724	0.0053

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	1.9818	2.021	2.0671	0.040564	1.9865	2.0254	2.0724	0.040663	0.0034	0.004425	0.0053	0.00079739
1e+12	1.9961	2.029	2.0925	0.045294	1.9953	2.024	2.0814	0.03968	-0.0112	-0.005025	0.003	0.0072408
5e+12	2.0048	2.0446	2.0767	0.029717	1.9812	2.0145	2.0526	0.030754	-0.0465	-0.030175	-0.0236	0.010957
1e+13	2.0071	2.0257	2.0436	0.018614	1.9559	1.9685	1.9838	0.014492	-0.0619	-0.057275	-0.0508	0.0048355

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

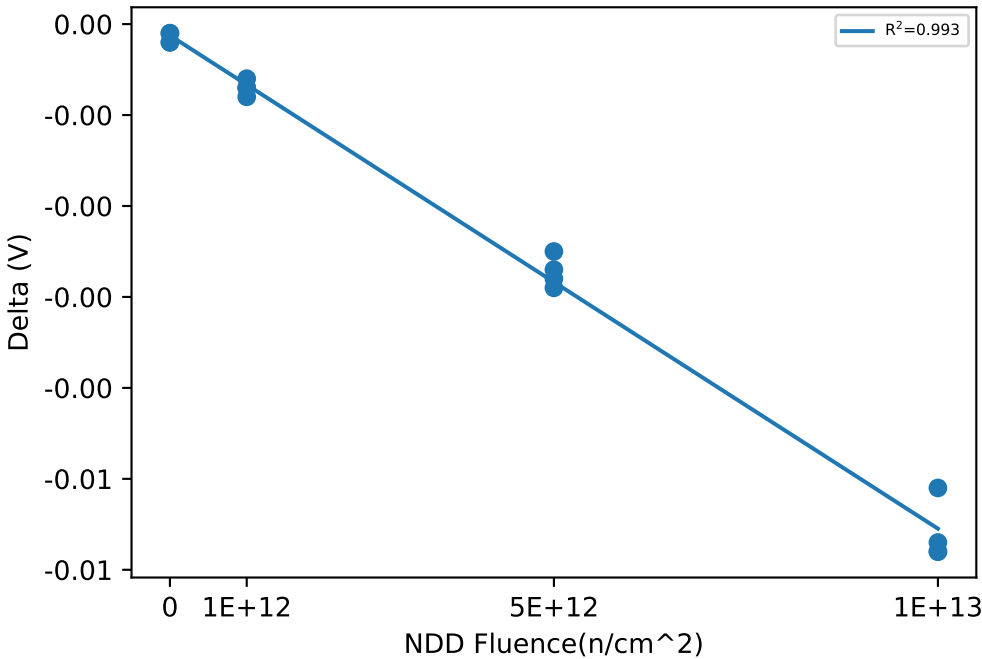
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.2036	1.2029	-0.0007
229	5e+12	NDD	1.1999	1.1974	-0.0025
260	1e+13	NDD	1.2009	1.1951	-0.0058
301	1e+12	NDD	1.2029	1.2023	-0.0006
362	5e+12	NDD	1.2037	1.2008	-0.0029
365	1e+13	NDD	1.2019	1.1961	-0.0058
439	1e+12	NDD	1.2037	1.203	-0.0007
514	5e+12	NDD	1.204	1.2012	-0.0028
577	1e+13	NDD	1.1987	1.1936	-0.0051
634	1e+12	NDD	1.2021	1.2013	-0.0008
635	5e+12	NDD	1.2016	1.1989	-0.0027
713	1e+13	NDD	1.2045	1.1988	-0.0057
732	0	CORRELATION	1.2047	1.2045	-0.0002
742	0	CORRELATION	1.2035	1.2034	-0.0001
879	0	CORRELATION	1.2042	1.2041	-0.0001
880	0	CORRELATION	1.2061	1.2059	-0.0002

NDD vs Post - Pre Exposure Delta

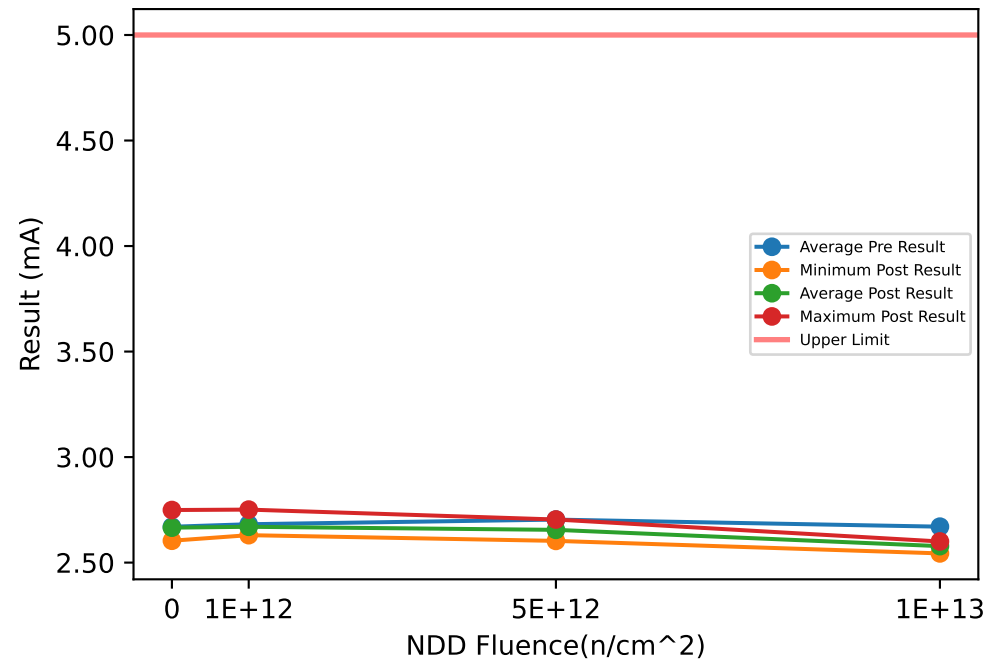


Test Statistics (V)

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	1.2035	1.2046	1.2061	0.0010996	1.2034	1.2045	1.2059	0.0010532	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.2021	1.2031	1.2037	0.00074106	1.2013	1.2024	1.203	0.00078049	-0.0008	-0.0007	-0.0006	8.165e-05
5e+12	1.1999	1.2023	1.204	0.0019235	1.1974	1.1996	1.2012	0.0017633	-0.0029	-0.002725	-0.0025	0.00017078
1e+13	1.1987	1.2015	1.2045	0.0024055	1.1936	1.1959	1.1988	0.0021894	-0.0058	-0.0056	-0.0051	0.00033665

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

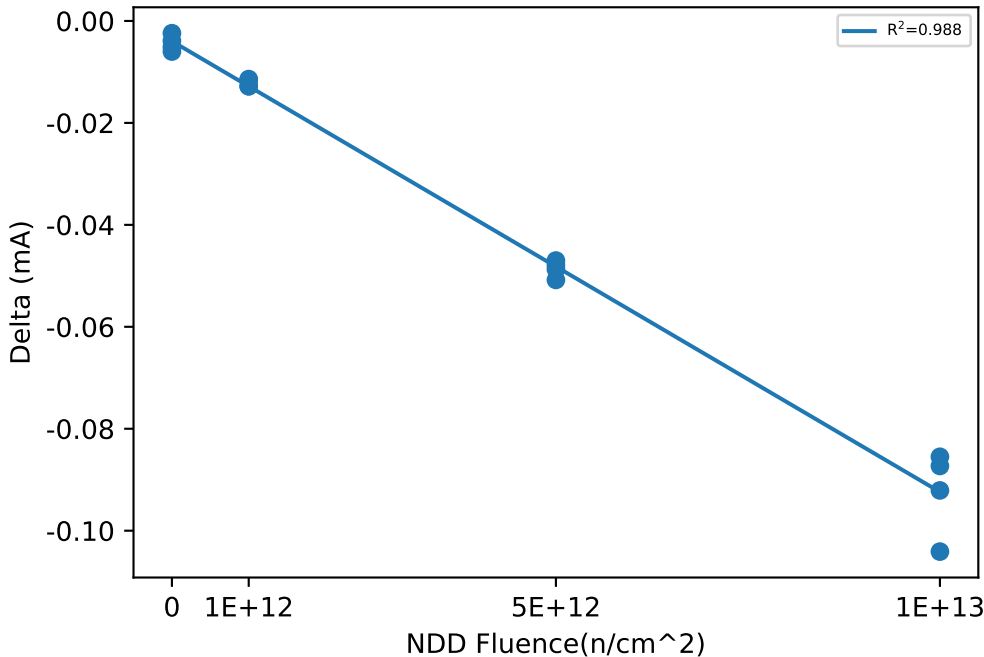
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.6735	2.6607	-0.0128
229	5e+12	NDD	2.7401	2.6914	-0.0487
260	1e+13	NDD	2.6996	2.5955	-0.1041
301	1e+12	NDD	2.7627	2.7511	-0.0116
362	5e+12	NDD	2.673	2.6222	-0.0508
365	1e+13	NDD	2.6874	2.6001	-0.0873
439	1e+12	NDD	2.6414	2.63	-0.0114
514	5e+12	NDD	2.6499	2.6029	-0.047
577	1e+13	NDD	2.6357	2.5436	-0.0921
634	1e+12	NDD	2.6497	2.6369	-0.0128
635	5e+12	NDD	2.7521	2.7042	-0.0479
713	1e+13	NDD	2.6583	2.5728	-0.0855
732	0	CORRELATION	2.6261	2.621	-0.0051
742	0	CORRELATION	2.6096	2.6036	-0.006
879	0	CORRELATION	2.6923	2.6884	-0.0039
880	0	CORRELATION	2.7515	2.7491	-0.0024

NDD vs Post - Pre Exposure Delta

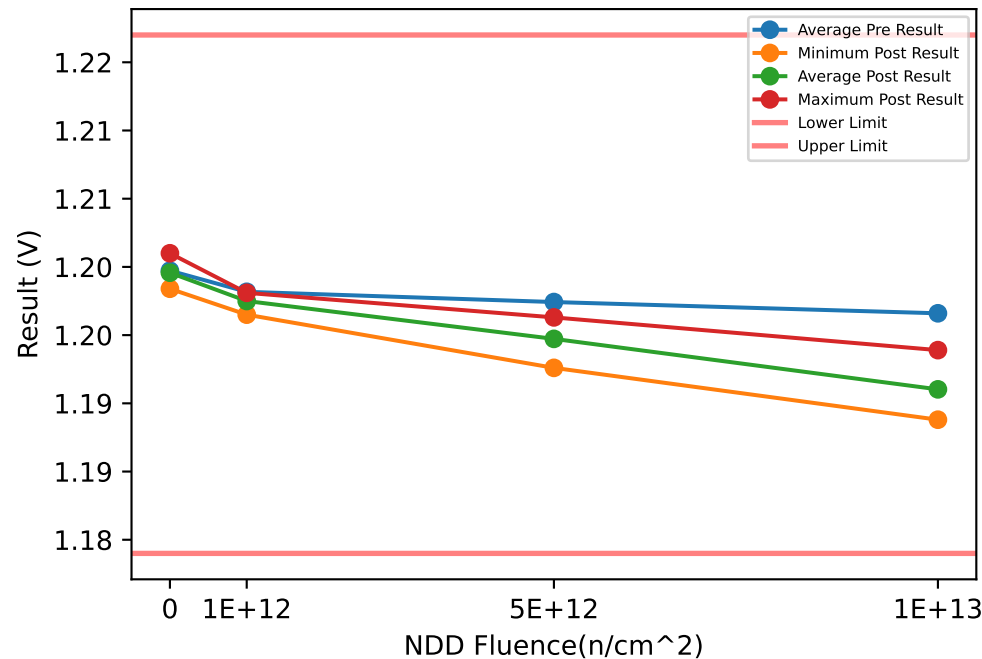


Test Statistics (mA)

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	2.6096	2.6699	2.7515	0.065102	2.6036	2.6655	2.7491	0.066646	-0.006	-0.00435	-0.0024	0.0015588
1e+12	2.6414	2.6818	2.7627	0.055607	2.63	2.6697	2.7511	0.055854	-0.0128	-0.01215	-0.0114	0.00075498
5e+12	2.6499	2.7038	2.7521	0.050015	2.6029	2.6552	2.7042	0.050119	-0.0508	-0.0486	-0.047	0.0016228
1e+13	2.6357	2.6703	2.6996	0.028822	2.5436	2.578	2.6001	0.025853	-0.1041	-0.09225	-0.0855	0.0083768

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

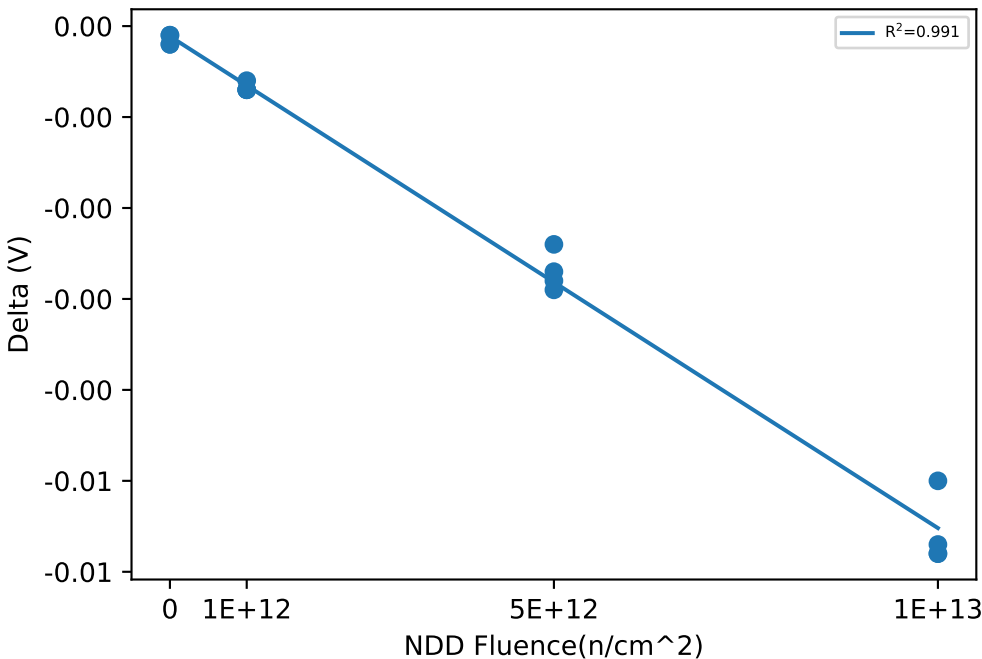
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.2037	1.203	-0.0007
229	5e+12	NDD	1.2	1.1976	-0.0024
260	1e+13	NDD	1.201	1.1952	-0.0058
301	1e+12	NDD	1.203	1.2024	-0.0006
362	5e+12	NDD	1.2038	1.2009	-0.0029
365	1e+13	NDD	1.202	1.1962	-0.0058
439	1e+12	NDD	1.2038	1.2031	-0.0007
514	5e+12	NDD	1.2041	1.2013	-0.0028
577	1e+13	NDD	1.1988	1.1938	-0.005
634	1e+12	NDD	1.2022	1.2015	-0.0007
635	5e+12	NDD	1.2018	1.1991	-0.0027
713	1e+13	NDD	1.2046	1.1989	-0.0057
732	0	CORRELATION	1.2048	1.2047	-0.0001
742	0	CORRELATION	1.2036	1.2034	-0.0002
879	0	CORRELATION	1.2043	1.2042	-0.0001
880	0	CORRELATION	1.2062	1.206	-0.0002

NDD vs Post - Pre Exposure Delta

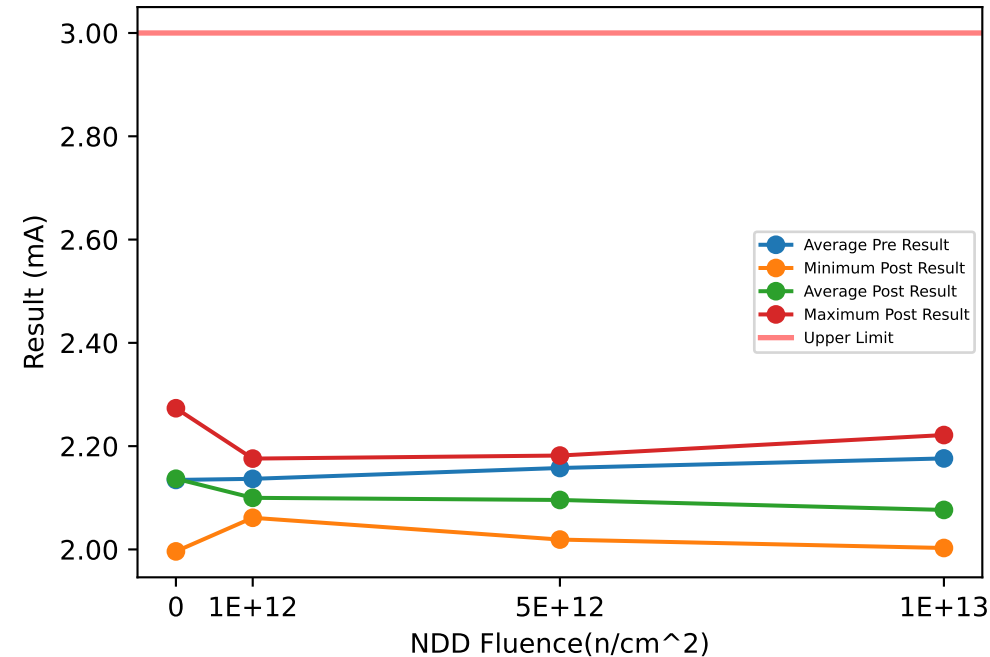


Test Statistics (V)

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	1.2036	1.2047	1.2062	0.0010996	1.2034	1.2046	1.206	0.0010905	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.2022	1.2032	1.2038	0.00074106	1.2015	1.2025	1.2031	0.00073485	-0.0007	-0.000675	-0.0006	5e-05
5e+12	1.2	1.2024	1.2041	0.001912	1.1976	1.1997	1.2013	0.0017095	-0.0029	-0.0027	-0.0024	0.00021602
1e+13	1.1988	1.2016	1.2046	0.0024055	1.1938	1.196	1.1989	0.0021546	-0.0058	-0.005575	-0.005	0.00038622

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

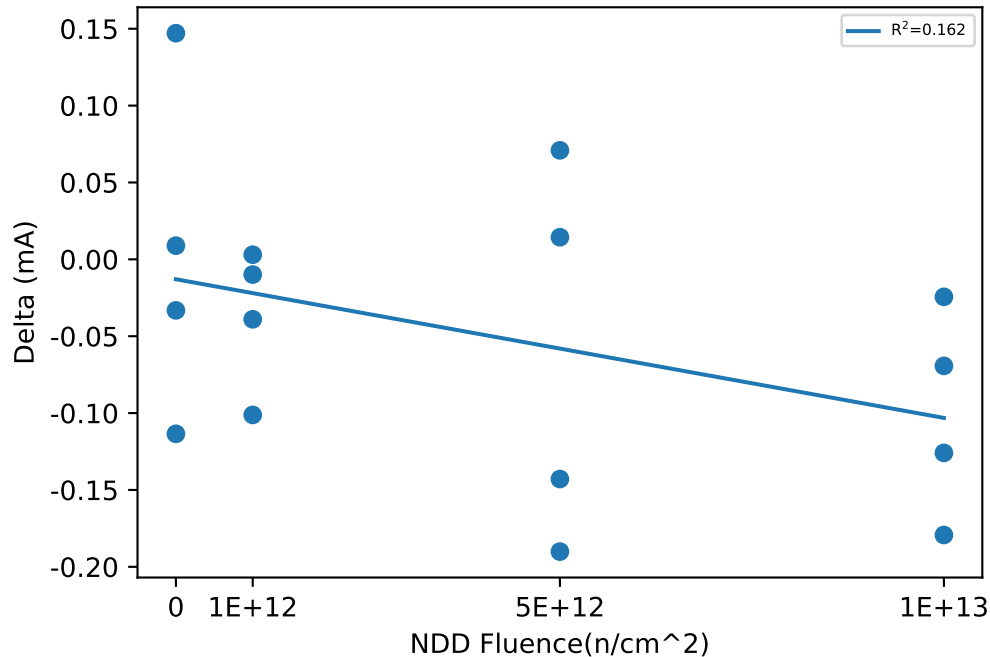
NDD vs Result Stats



Test Results (Upper Limit = 3.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.1729	2.1759	0.003
229	5e+12	NDD	2.1674	2.1818	0.0144
260	1e+13	NDD	2.2908	2.2215	-0.0693
301	1e+12	NDD	2.0953	2.0854	-0.0099
362	5e+12	NDD	2.2092	2.0191	-0.1901
365	1e+13	NDD	2.2052	2.0259	-0.1793
439	1e+12	NDD	2.1161	2.0771	-0.039
514	5e+12	NDD	2.0232	2.0941	0.0709
577	1e+13	NDD	2.1817	2.0558	-0.1259
634	1e+12	NDD	2.1625	2.0613	-0.1012
635	5e+12	NDD	2.231	2.0881	-0.1429
713	1e+13	NDD	2.0272	2.0028	-0.0244
732	0	CORRELATION	2.1059	2.0727	-0.0332
742	0	CORRELATION	2.1097	1.9962	-0.1135
879	0	CORRELATION	2.0582	2.2053	0.1471
880	0	CORRELATION	2.2645	2.2734	0.0089

NDD vs Post - Pre Exposure Delta

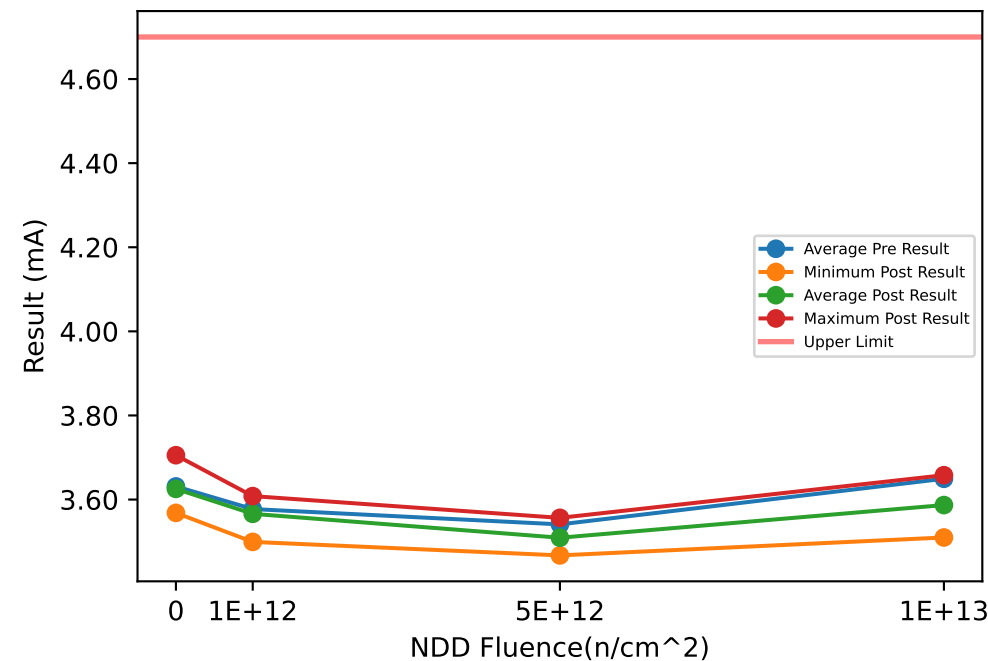


Test Statistics (mA)

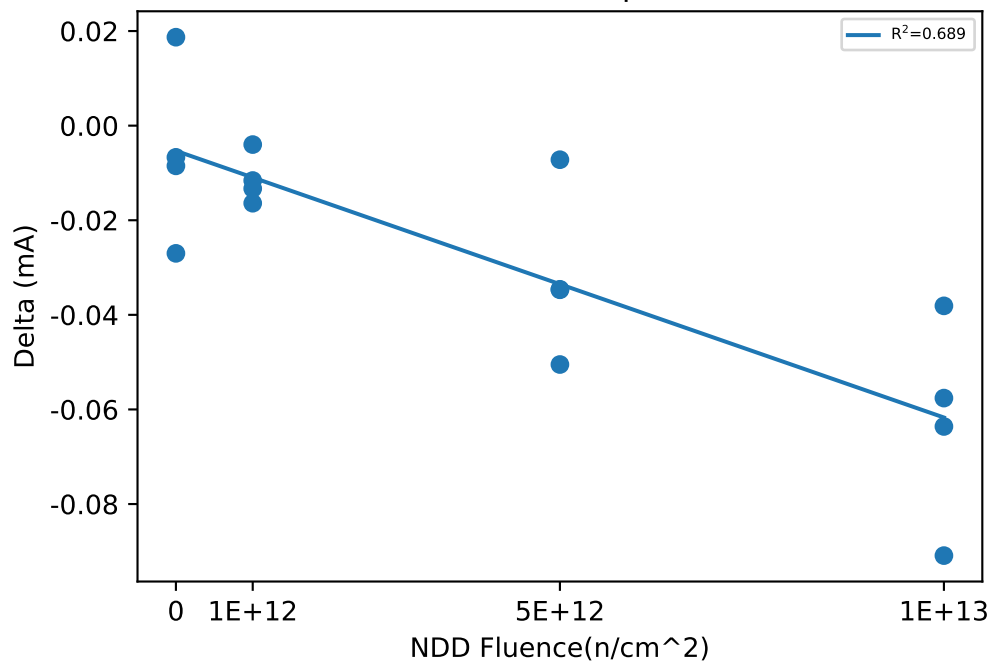
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.0582	2.1346	2.2645	0.08973	1.9962	2.1369	2.2734	0.12547	-0.1135	0.002325	0.1471	0.10906
1e+12	2.0953	2.1367	2.1729	0.037033	2.0613	2.0999	2.1759	0.051627	-0.1012	-0.036775	0.003	0.046403
5e+12	2.0232	2.1577	2.231	0.093469	2.0191	2.0958	2.1818	0.066686	-0.1901	-0.061925	0.0709	0.12444
1e+13	2.0272	2.1762	2.2908	0.10986	2.0028	2.0765	2.2215	0.099072	-0.1793	-0.099725	-0.0244	0.067372

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))

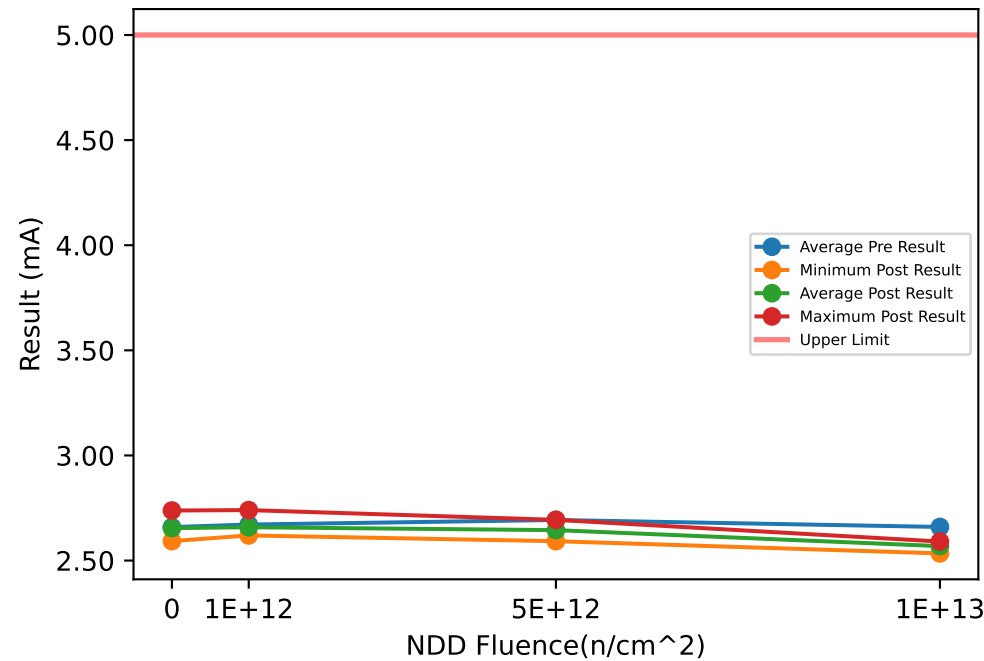
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.5109	3.4993	-0.0116
229	5e+12	NDD	3.5125	3.4778	-0.0347
260	1e+13	NDD	3.6661	3.628	-0.0381
301	1e+12	NDD	3.595	3.591	-0.004
362	5e+12	NDD	3.5426	3.5354	-0.0072
365	1e+13	NDD	3.7155	3.6579	-0.0576
439	1e+12	NDD	3.6246	3.6082	-0.0164
514	5e+12	NDD	3.5177	3.4672	-0.0505
577	1e+13	NDD	3.6154	3.5518	-0.0636
634	1e+12	NDD	3.579	3.5657	-0.0133
635	5e+12	NDD	3.5911	3.5565	-0.0346
713	1e+13	NDD	3.6007	3.5098	-0.0909
732	0	CORRELATION	3.5768	3.5683	-0.0085
742	0	CORRELATION	3.6868	3.7055	0.0187
879	0	CORRELATION	3.6035	3.5765	-0.027
880	0	CORRELATION	3.6577	3.651	-0.0067

Test Statistics (mA)

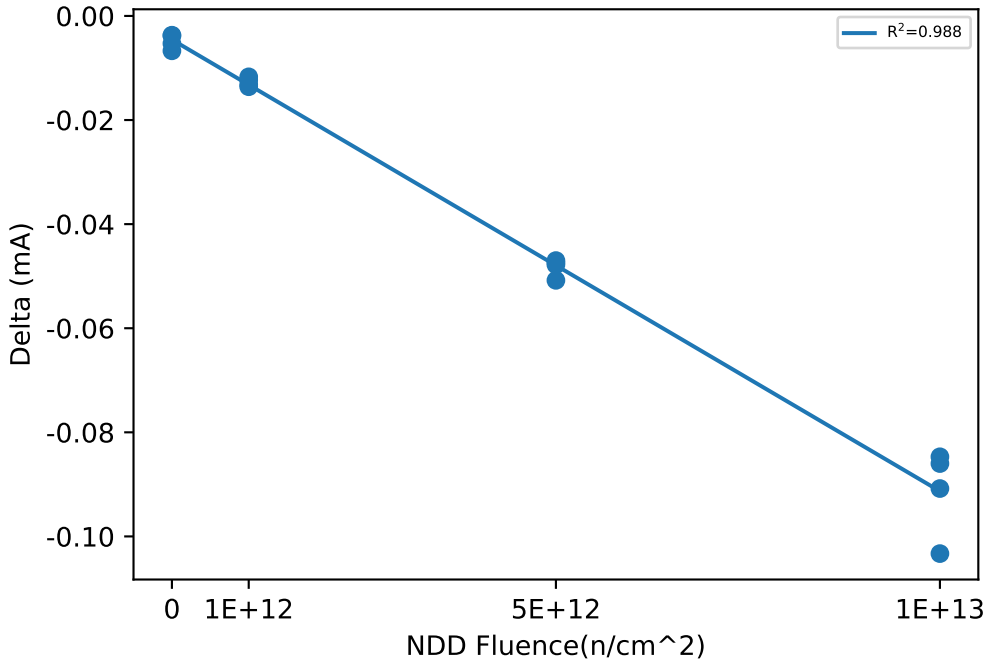
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.5768	3.6312	3.6868	0.050067	3.5683	3.6253	3.7055	0.065123	-0.027	-0.005875	0.0187	0.018777
1e+12	3.5109	3.5774	3.6246	0.048175	3.4993	3.5661	3.6082	0.047801	-0.0164	-0.011325	-0.004	0.0052722
5e+12	3.5125	3.541	3.5911	0.035906	3.4672	3.5092	3.5565	0.043488	-0.0505	-0.03175	-0.0072	0.017992
1e+13	3.6007	3.6494	3.7155	0.052204	3.5098	3.5869	3.6579	0.068085	-0.0909	-0.06255	-0.0381	0.021811

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))

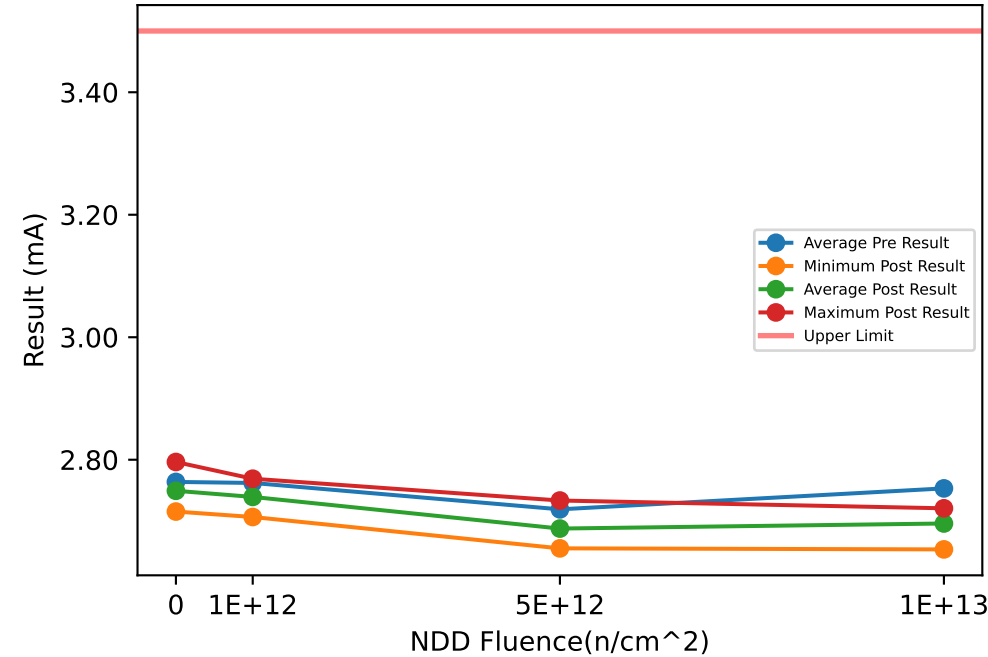
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.6628	2.6496	-0.0132
229	5e+12	NDD	2.7292	2.6814	-0.0478
260	1e+13	NDD	2.6904	2.5871	-0.1033
301	1e+12	NDD	2.7524	2.7401	-0.0123
362	5e+12	NDD	2.6626	2.6118	-0.0508
365	1e+13	NDD	2.6766	2.5906	-0.086
439	1e+12	NDD	2.6312	2.6195	-0.0117
514	5e+12	NDD	2.6392	2.5922	-0.047
577	1e+13	NDD	2.6249	2.5341	-0.0908
634	1e+12	NDD	2.6386	2.625	-0.0136
635	5e+12	NDD	2.7411	2.6937	-0.0474
713	1e+13	NDD	2.6478	2.5631	-0.0847
732	0	CORRELATION	2.6155	2.6102	-0.0053
742	0	CORRELATION	2.5992	2.5925	-0.0067
879	0	CORRELATION	2.6802	2.6765	-0.0037
880	0	CORRELATION	2.7419	2.7381	-0.0038

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	2.5992	2.6592	2.7419	0.065294	2.5925	2.6543	2.7381	0.066532	-0.0067	-0.004875	-0.0037	0.0014198
1e+12	2.6312	2.6713	2.7524	0.055758	2.6195	2.6585	2.7401	0.05592	-0.0136	-0.0127	-0.0117	0.00086023
5e+12	2.6392	2.693	2.7411	0.049808	2.5922	2.6448	2.6937	0.050288	-0.0508	-0.04825	-0.047	0.0017311
1e+13	2.6249	2.6599	2.6904	0.029329	2.5341	2.5687	2.5906	0.02612	-0.1033	-0.0912	-0.0847	0.0084825

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

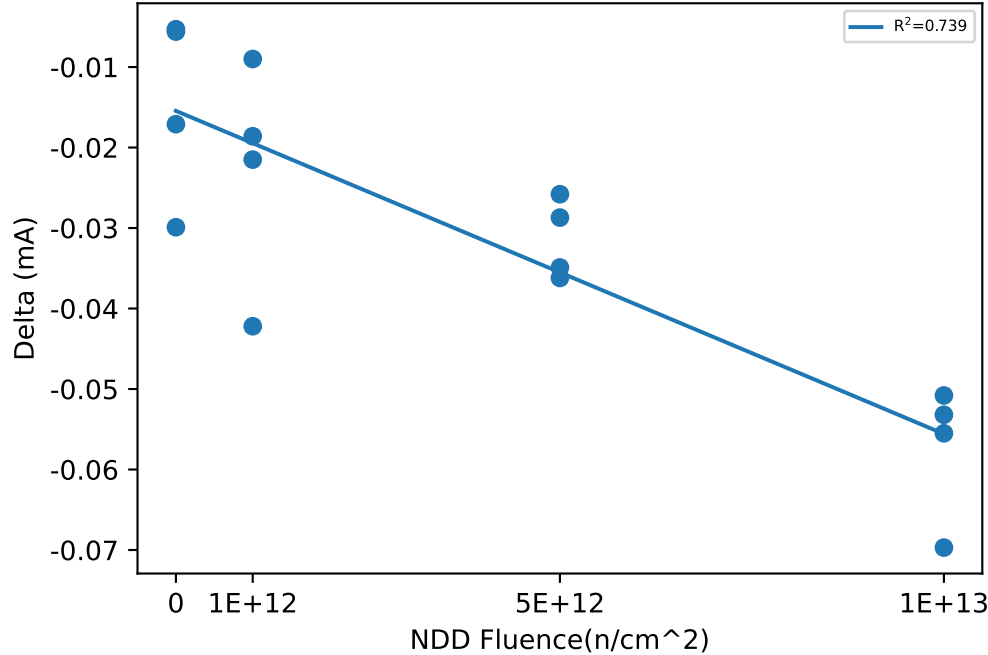
NDD vs Result Stats



Test Results (Upper Limit = 3.5 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.7251	2.7065	-0.0186
229	5e+12	NDD	2.684	2.6553	-0.0287
260	1e+13	NDD	2.7233	2.6536	-0.0697
301	1e+12	NDD	2.778	2.769	-0.009
362	5e+12	NDD	2.7203	2.6945	-0.0258
365	1e+13	NDD	2.7739	2.7207	-0.0532
439	1e+12	NDD	2.8053	2.7631	-0.0422
514	5e+12	NDD	2.7022	2.6673	-0.0349
577	1e+13	NDD	2.7662	2.7154	-0.0508
634	1e+12	NDD	2.74	2.7185	-0.0215
635	5e+12	NDD	2.7696	2.7334	-0.0362
713	1e+13	NDD	2.7494	2.6939	-0.0555
732	0	CORRELATION	2.7325	2.7154	-0.0171
742	0	CORRELATION	2.7844	2.7545	-0.0299
879	0	CORRELATION	2.7365	2.7309	-0.0056
880	0	CORRELATION	2.8016	2.7963	-0.0053

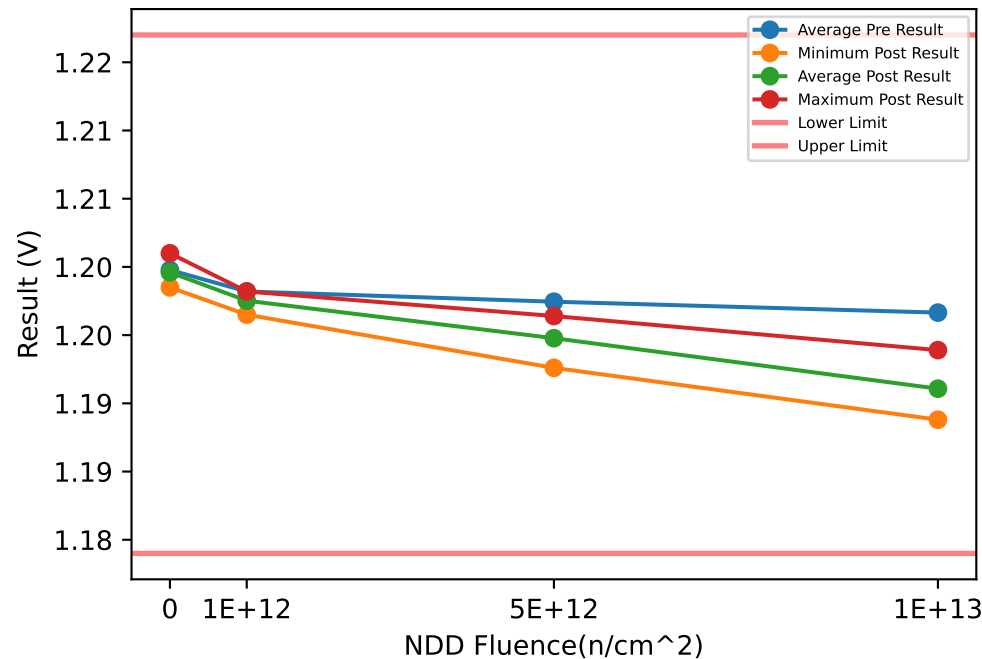
NDD vs Post - Pre Exposure Delta



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	2.7325	2.7637	2.8016	0.034536	2.7154	2.7493	2.7963	0.035232	-0.0299	-0.014475	-0.0053	0.011659
1e+12	2.7251	2.7621	2.8053	0.036407	2.7065	2.7393	2.769	0.031395	-0.0422	-0.022825	-0.009	0.013978
5e+12	2.684	2.719	2.7696	0.03683	2.6553	2.6876	2.7334	0.034644	-0.0362	-0.0314	-0.0258	0.0049645
1e+13	2.7233	2.7532	2.7739	0.022405	2.6536	2.6959	2.7207	0.030488	-0.0697	-0.0573	-0.0508	0.0084865

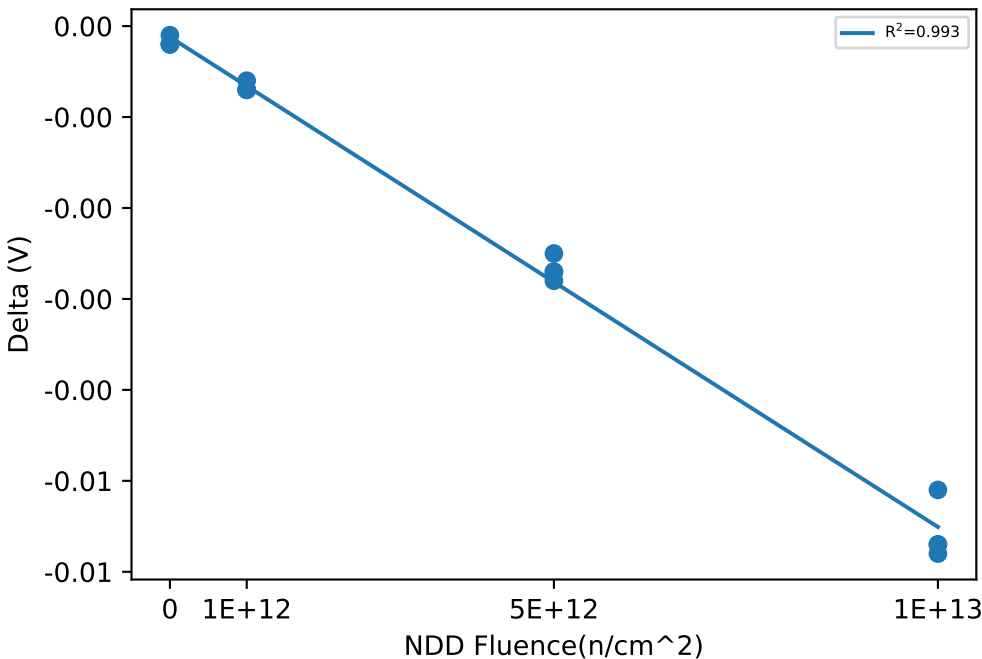
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.2037	1.203	-0.0007
229	5e+12	NDD	1.2001	1.1976	-0.0025
260	1e+13	NDD	1.2011	1.1953	-0.0058
301	1e+12	NDD	1.2031	1.2024	-0.0007
362	5e+12	NDD	1.2038	1.201	-0.0028
365	1e+13	NDD	1.202	1.1963	-0.0057
439	1e+12	NDD	1.2038	1.2032	-0.0006
514	5e+12	NDD	1.2041	1.2014	-0.0027
577	1e+13	NDD	1.1989	1.1938	-0.0051
634	1e+12	NDD	1.2022	1.2015	-0.0007
635	5e+12	NDD	1.2018	1.1991	-0.0027
713	1e+13	NDD	1.2046	1.1989	-0.0057
732	0	CORRELATION	1.2049	1.2047	-0.0002
742	0	CORRELATION	1.2037	1.2035	-0.0002
879	0	CORRELATION	1.2043	1.2042	-0.0001
880	0	CORRELATION	1.2062	1.206	-0.0002

NDD vs Post - Pre Exposure Delta

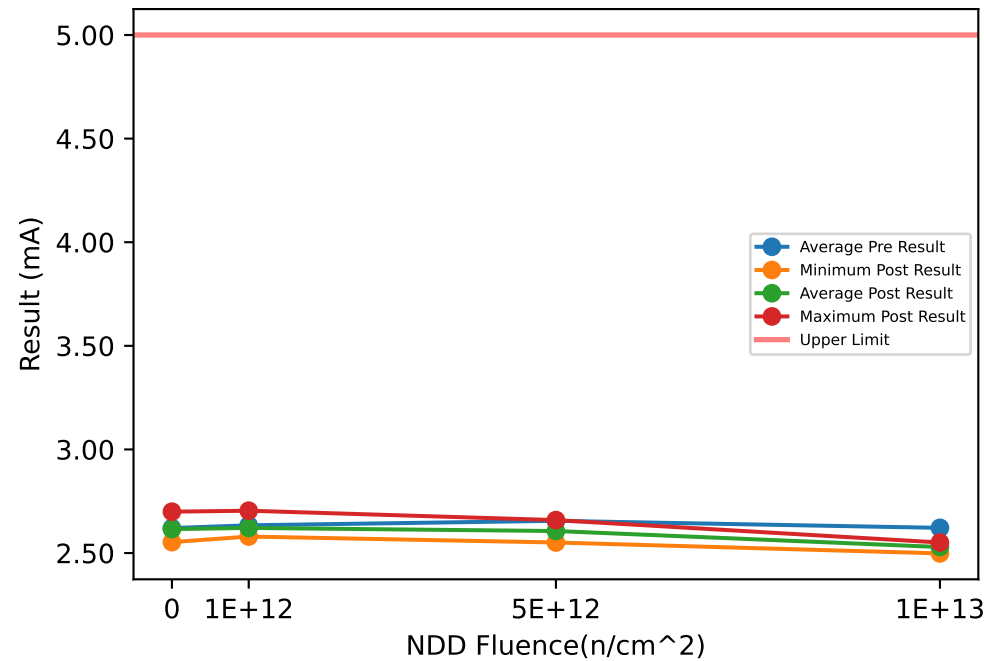


Test Statistics (V)

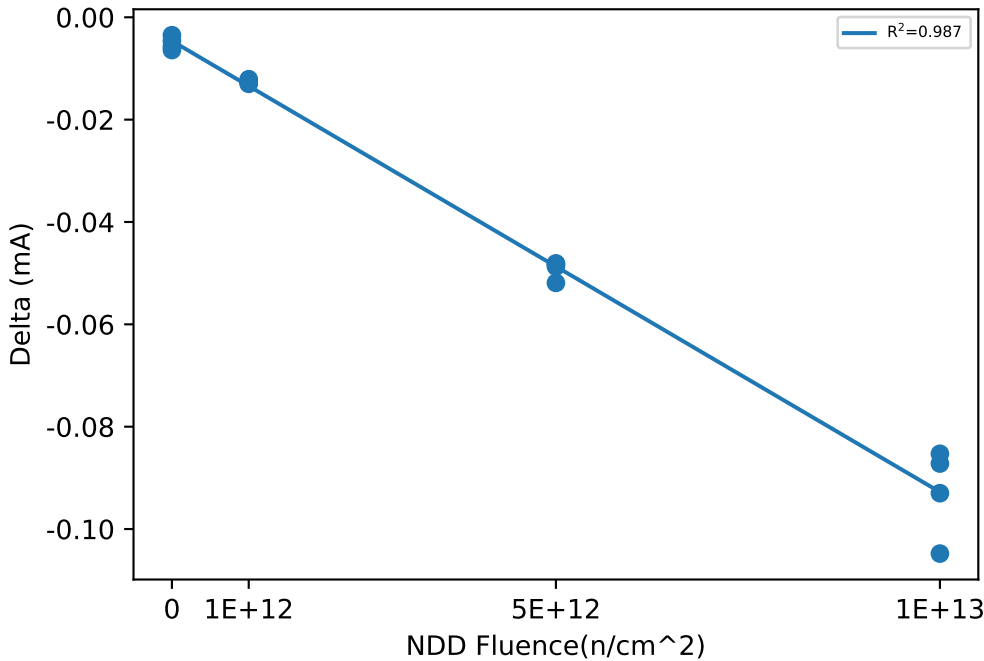
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.2037	1.2048	1.2062	0.0010689	1.2035	1.2046	1.206	0.0010551	-0.0002	-0.000175	-0.0001	5e-05
1e+12	1.2022	1.2032	1.2038	0.00073485	1.2015	1.2025	1.2032	0.00076322	-0.0007	-0.000675	-0.0006	5e-05
5e+12	1.2001	1.2025	1.2041	0.0018699	1.1976	1.1998	1.2014	0.0017633	-0.0028	-0.002675	-0.0025	0.00012583
1e+13	1.1989	1.2016	1.2046	0.0023587	1.1938	1.1961	1.1989	0.0021453	-0.0058	-0.005575	-0.0051	0.00032016

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 5.0 (mA))

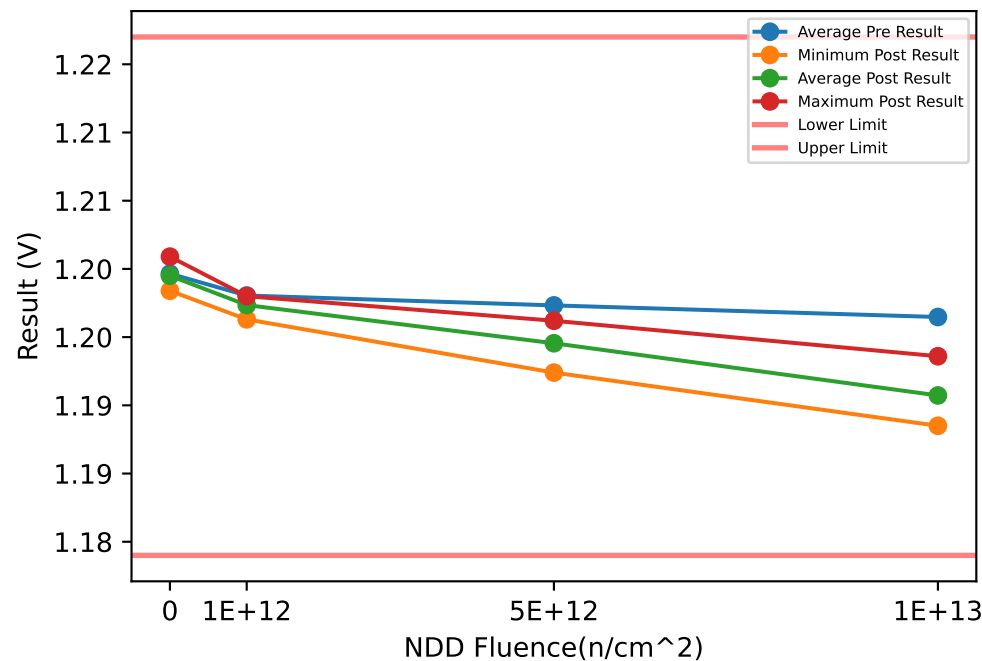
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.6258	2.6128	-0.013
229	5e+12	NDD	2.691	2.6428	-0.0482
260	1e+13	NDD	2.6511	2.5463	-0.1048
301	1e+12	NDD	2.717	2.7043	-0.0127
362	5e+12	NDD	2.6243	2.5724	-0.0519
365	1e+13	NDD	2.6381	2.5509	-0.0872
439	1e+12	NDD	2.5917	2.5796	-0.0121
514	5e+12	NDD	2.5996	2.5509	-0.0487
577	1e+13	NDD	2.5913	2.4983	-0.093
634	1e+12	NDD	2.601	2.5882	-0.0128
635	5e+12	NDD	2.7071	2.659	-0.0481
713	1e+13	NDD	2.6058	2.5205	-0.0853
732	0	CORRELATION	2.5785	2.5728	-0.0057
742	0	CORRELATION	2.5591	2.5527	-0.0064
879	0	CORRELATION	2.6412	2.6366	-0.0046
880	0	CORRELATION	2.7031	2.6996	-0.0035

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	2.5591	2.6205	2.7031	0.065282	2.5527	2.6154	2.6996	0.066546	-0.0064	-0.00505	-0.0035	0.0012715
1e+12	2.5917	2.6339	2.717	0.057255	2.5796	2.6212	2.7043	0.057142	-0.013	-0.01265	-0.0121	0.0003873
5e+12	2.5996	2.6555	2.7071	0.051708	2.5509	2.6063	2.659	0.052687	-0.0519	-0.049225	-0.0481	0.0018025
1e+13	2.5913	2.6216	2.6511	0.02775	2.4983	2.529	2.5509	0.024452	-0.1048	-0.092575	-0.0853	0.0087835

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

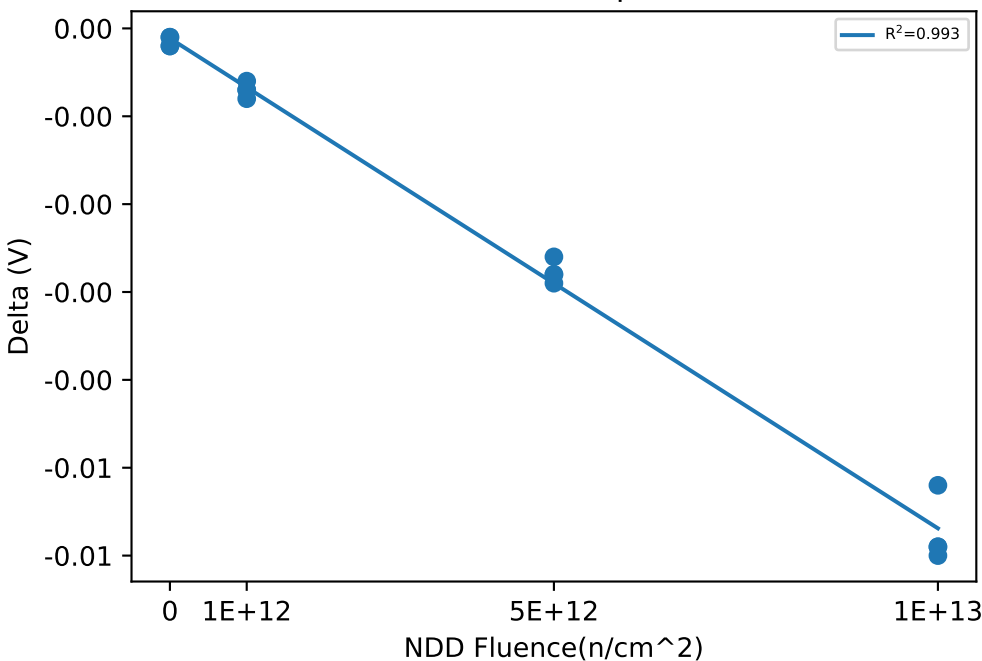
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.2036	1.2028	-0.0008
229	5e+12	NDD	1.2	1.1974	-0.0026
260	1e+13	NDD	1.2009	1.1949	-0.006
301	1e+12	NDD	1.2029	1.2023	-0.0006
362	5e+12	NDD	1.2037	1.2008	-0.0029
365	1e+13	NDD	1.2018	1.1959	-0.0059
439	1e+12	NDD	1.2037	1.203	-0.0007
514	5e+12	NDD	1.204	1.2012	-0.0028
577	1e+13	NDD	1.1987	1.1935	-0.0052
634	1e+12	NDD	1.202	1.2013	-0.0007
635	5e+12	NDD	1.2016	1.1988	-0.0028
713	1e+13	NDD	1.2045	1.1986	-0.0059
732	0	CORRELATION	1.2048	1.2046	-0.0002
742	0	CORRELATION	1.2035	1.2034	-0.0001
879	0	CORRELATION	1.2042	1.2041	-0.0001
880	0	CORRELATION	1.2061	1.2059	-0.0002

NDD vs Post - Pre Exposure Delta

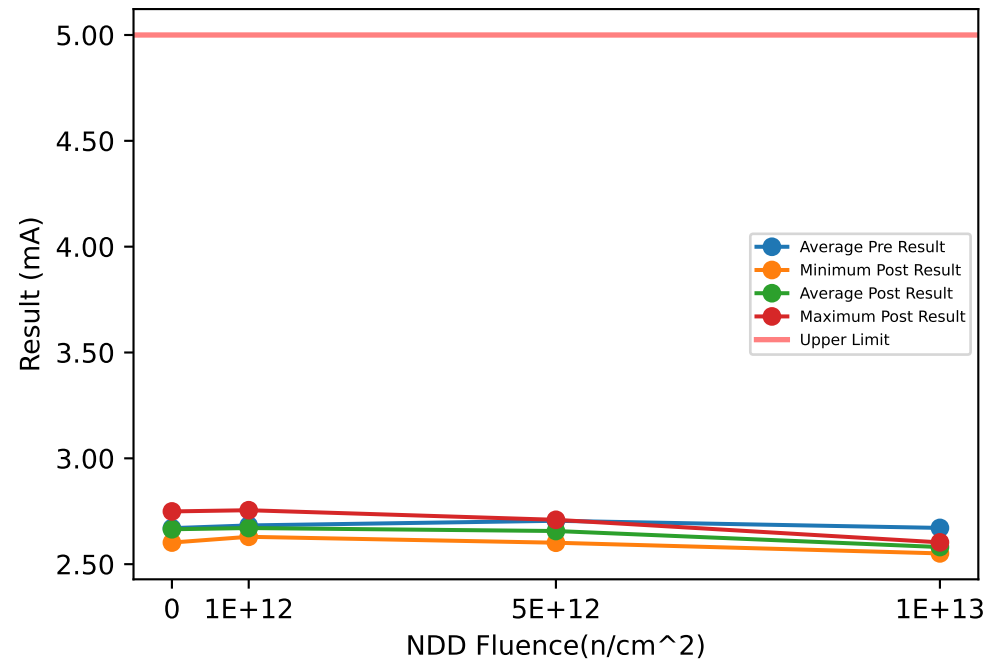


Test Statistics (V)

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	1.2035	1.2046	1.2061	0.001103	1.2034	1.2045	1.2059	0.0010551	-0.0002	-0.00015	-0.0001	5.7735e-05
1e+12	1.202	1.203	1.2037	0.00078528	1.2013	1.2024	1.203	0.00075939	-0.0008	-0.0007	-0.0006	8.165e-05
5e+12	1.2	1.2023	1.204	0.0018822	1.1974	1.1996	1.2012	0.0017767	-0.0029	-0.002775	-0.0026	0.00012583
1e+13	1.1987	1.2015	1.2045	0.0024005	1.1935	1.1957	1.1986	0.0021546	-0.006	-0.00575	-0.0052	0.00036968

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

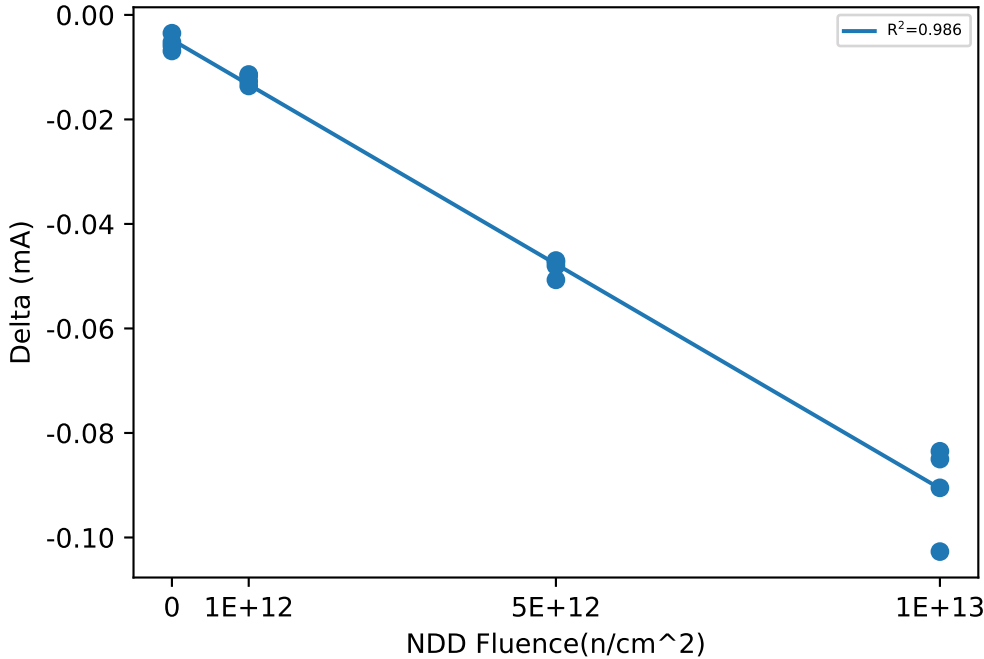
NDD vs Result Stats



Test Results (Upper Limit = 5.0 (mA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	2.6752	2.6625	-0.0127
229	5e+12	NDD	2.7407	2.6927	-0.048
260	1e+13	NDD	2.7008	2.5981	-0.1027
301	1e+12	NDD	2.7663	2.7549	-0.0114
362	5e+12	NDD	2.6738	2.6231	-0.0507
365	1e+13	NDD	2.688	2.603	-0.085
439	1e+12	NDD	2.6409	2.6293	-0.0116
514	5e+12	NDD	2.6486	2.6013	-0.0473
577	1e+13	NDD	2.6414	2.5509	-0.0905
634	1e+12	NDD	2.6497	2.6361	-0.0136
635	5e+12	NDD	2.7566	2.7096	-0.047
713	1e+13	NDD	2.6549	2.5714	-0.0835
732	0	CORRELATION	2.6287	2.6228	-0.0059
742	0	CORRELATION	2.609	2.6021	-0.0069
879	0	CORRELATION	2.6905	2.6853	-0.0052
880	0	CORRELATION	2.7527	2.7492	-0.0035

NDD vs Post - Pre Exposure Delta

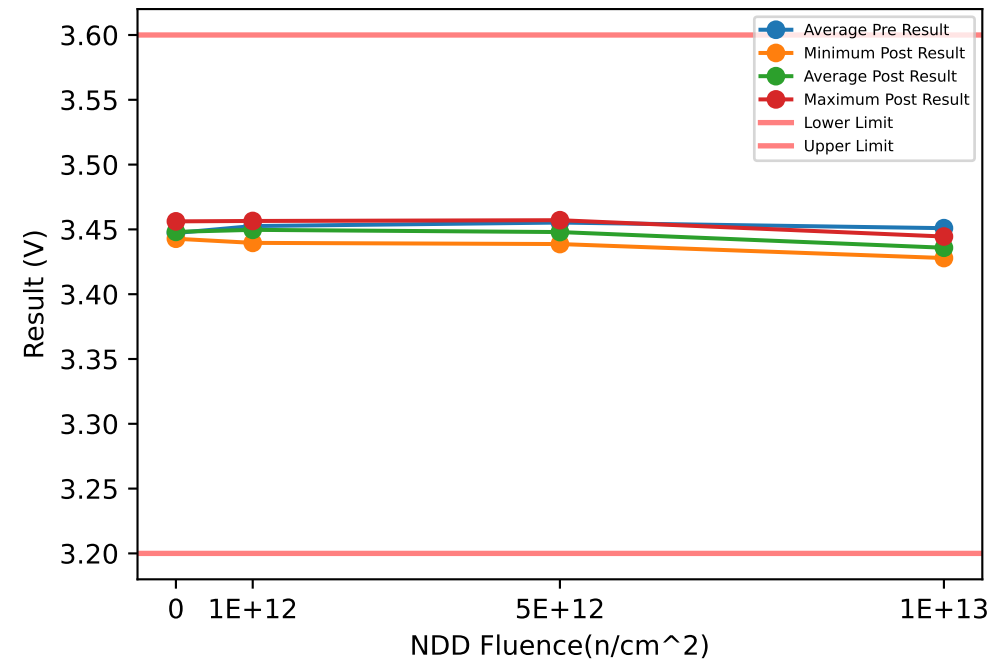


Test Statistics (mA)

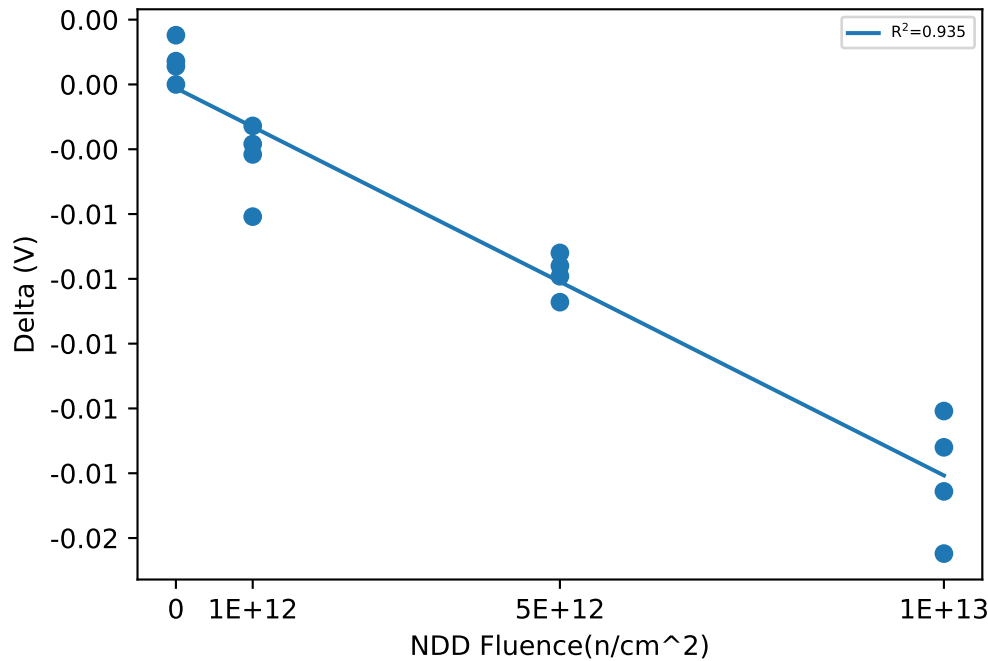
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	2.609	2.6702	2.7527	0.065028	2.6021	2.6648	2.7492	0.06643	-0.0069	-0.005375	-0.0035	0.0014315
1e+12	2.6409	2.683	2.7663	0.057391	2.6293	2.6707	2.7549	0.057931	-0.0136	-0.012325	-0.0114	0.0010243
5e+12	2.6486	2.7049	2.7566	0.051934	2.6013	2.6567	2.7096	0.052575	-0.0507	-0.04825	-0.047	0.0016862
1e+13	2.6414	2.6713	2.7008	0.027762	2.5509	2.5808	2.603	0.024321	-0.1027	-0.090425	-0.0835	0.0087191

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

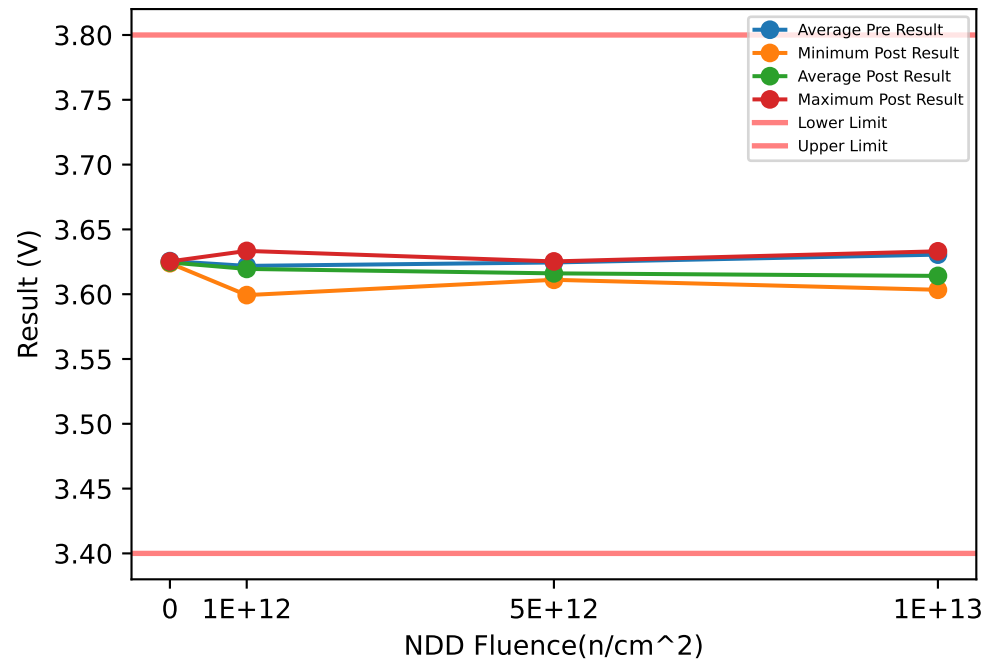
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.4447	3.4396	-0.0051
229	5e+12	NDD	3.4636	3.4571	-0.0065
260	1e+13	NDD	3.446	3.4279	-0.0181
301	1e+12	NDD	3.4592	3.4565	-0.0027
362	5e+12	NDD	3.4587	3.4513	-0.0074
365	1e+13	NDD	3.4425	3.4299	-0.0126
439	1e+12	NDD	3.4486	3.4463	-0.0023
514	5e+12	NDD	3.4531	3.4447	-0.0084
577	1e+13	NDD	3.4551	3.4411	-0.014
634	1e+12	NDD	3.4578	3.4562	-0.0016
635	5e+12	NDD	3.4457	3.4387	-0.007
713	1e+13	NDD	3.4602	3.4445	-0.0157
732	0	CORRELATION	3.4457	3.4464	0.0007
742	0	CORRELATION	3.4409	3.4428	0.0019
879	0	CORRELATION	3.4553	3.4562	0.0009
880	0	CORRELATION	3.447	3.447	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	3.4409	3.4472	3.4553	0.0059885	3.4428	3.4481	3.4562	0.0057096	0	0.000875	0.0019	0.00078475
1e+12	3.4447	3.4526	3.4592	0.0070476	3.4396	3.4497	3.4565	0.0082067	-0.0051	-0.002925	-0.0016	0.0015196
5e+12	3.4457	3.4553	3.4636	0.0076908	3.4387	3.448	3.4571	0.0079806	-0.0084	-0.007325	-0.0065	0.00080571
1e+13	3.4425	3.4509	3.4602	0.0081382	3.4279	3.4359	3.4445	0.0081851	-0.0181	-0.0151	-0.0126	0.0023678

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

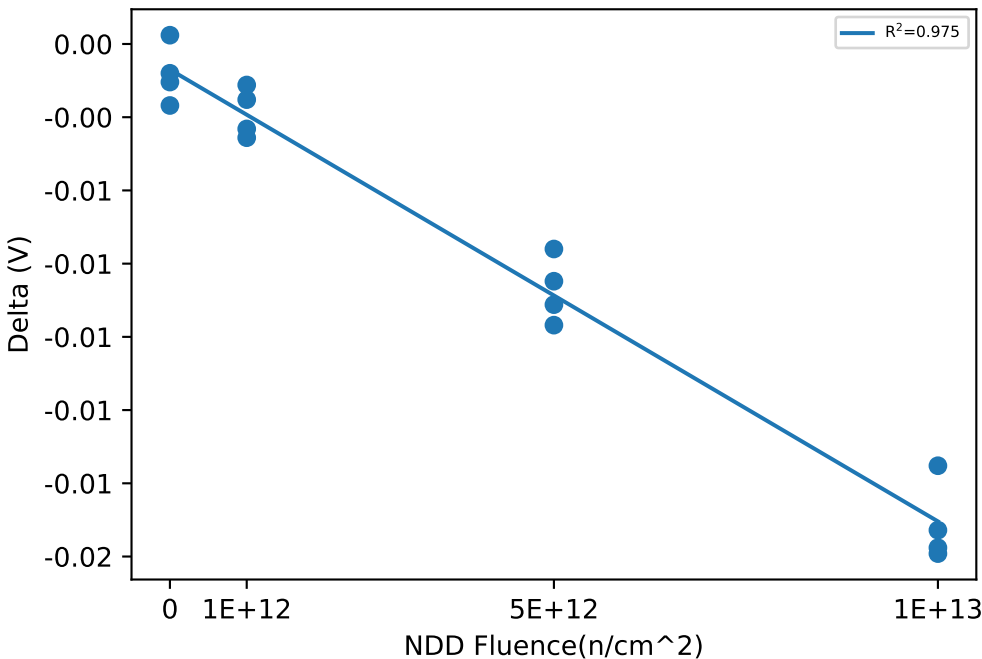
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.6168	3.6136	-0.0032
229	5e+12	NDD	3.6217	3.6136	-0.0081
260	1e+13	NDD	3.6236	3.6064	-0.0172
301	1e+12	NDD	3.6022	3.5993	-0.0029
362	5e+12	NDD	3.6239	3.6143	-0.0096
365	1e+13	NDD	3.6208	3.6034	-0.0174
439	1e+12	NDD	3.6336	3.6317	-0.0019
514	5e+12	NDD	3.62	3.6111	-0.0089
577	1e+13	NDD	3.628	3.6136	-0.0144
634	1e+12	NDD	3.6348	3.6334	-0.0014
635	5e+12	NDD	3.6323	3.6253	-0.007
713	1e+13	NDD	3.6497	3.6331	-0.0166
732	0	CORRELATION	3.6252	3.6239	-0.0013
742	0	CORRELATION	3.6267	3.6246	-0.0021
879	0	CORRELATION	3.625	3.6253	0.0003
880	0	CORRELATION	3.6252	3.6242	-0.001

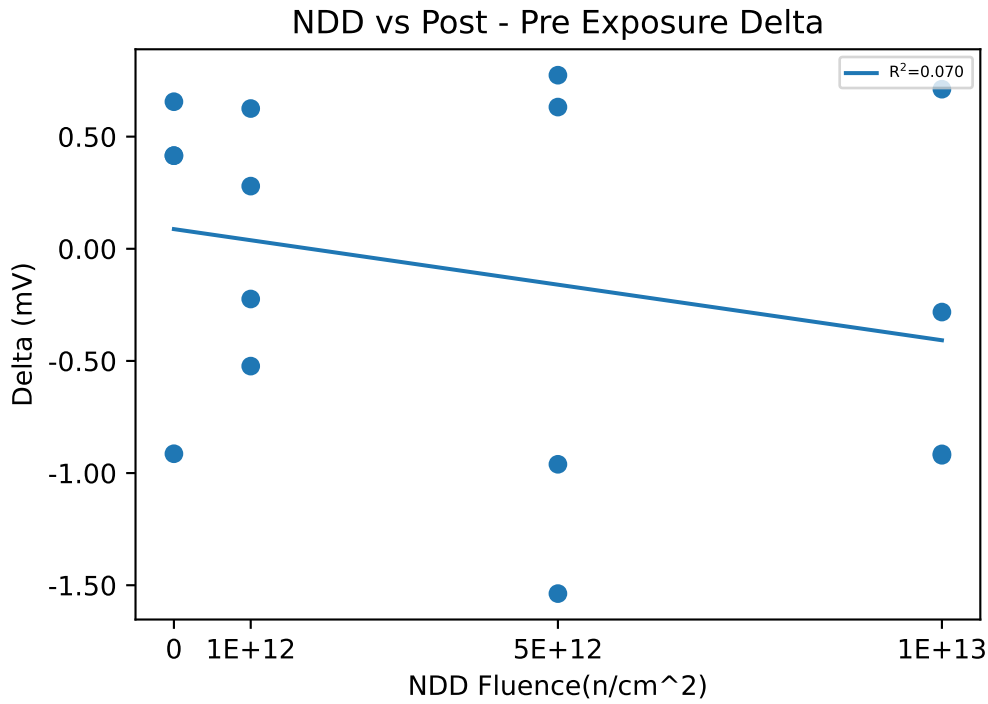
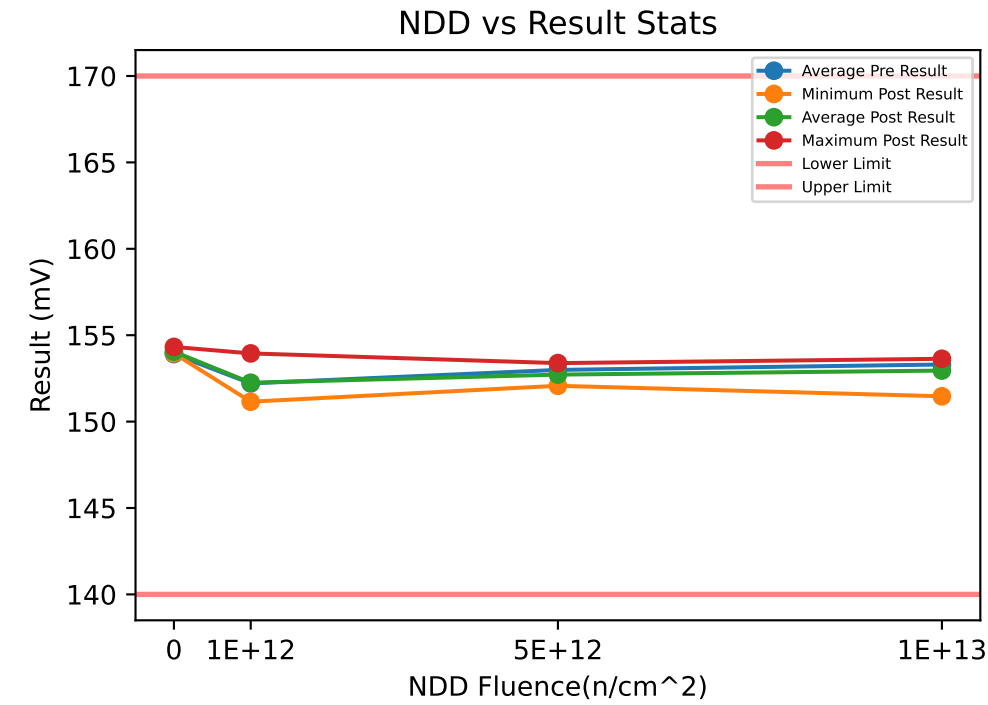
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.625	3.6255	3.6267	0.00078899	3.6239	3.6245	3.6253	0.00060553	-0.0021	-0.001025	0.0003	0.00099791
1e+12	3.6022	3.6218	3.6348	0.015464	3.5993	3.6195	3.6334	0.016175	-0.0032	-0.00235	-0.0014	0.00084261
5e+12	3.62	3.6245	3.6323	0.0054555	3.6111	3.6161	3.6253	0.0063015	-0.0096	-0.0084	-0.007	0.0011165
1e+13	3.6208	3.6305	3.6497	0.013122	3.6034	3.6141	3.6331	0.013354	-0.0174	-0.0164	-0.0144	0.001376

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



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

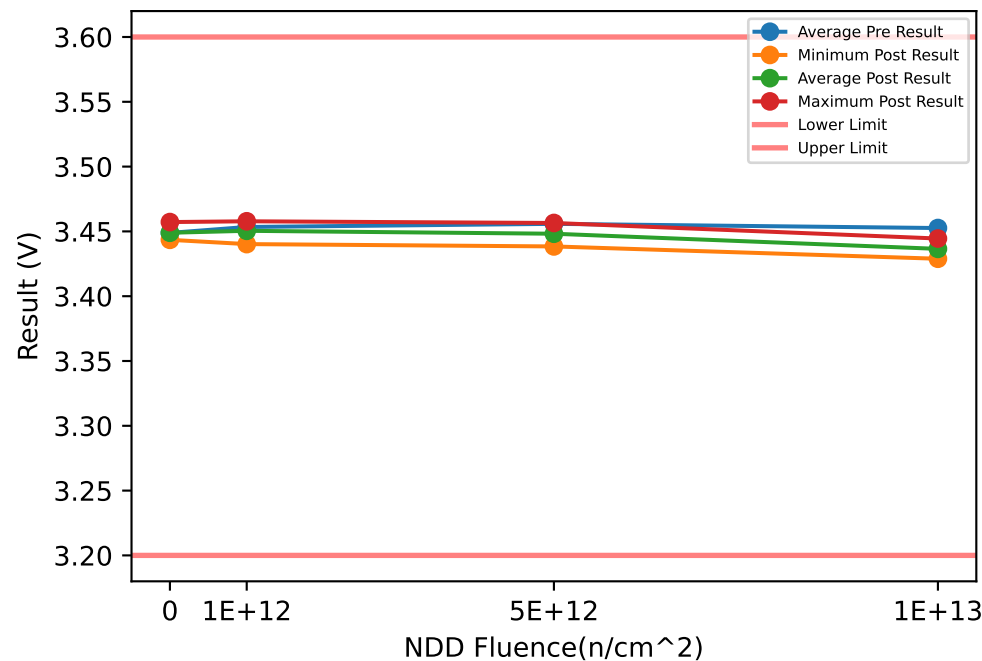
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	151.67	151.15	-0.5231
229	5e+12	NDD	153.67	152.71	-0.9608
260	1e+13	NDD	152.38	151.46	-0.9206
301	1e+12	NDD	152.05	151.82	-0.2239
362	5e+12	NDD	152.61	153.38	0.7739
365	1e+13	NDD	154.3	153.38	-0.9144
439	1e+12	NDD	153.32	153.95	0.6253
514	5e+12	NDD	153.61	152.07	-1.5373
577	1e+13	NDD	152.92	153.63	0.7115
634	1e+12	NDD	151.8	152.08	0.2794
635	5e+12	NDD	152.07	152.7	0.6318
713	1e+13	NDD	153.61	153.33	-0.2821
732	0	CORRELATION	153.55	153.96	0.4154
742	0	CORRELATION	155.24	154.32	-0.9138
879	0	CORRELATION	153.3	153.95	0.6557
880	0	CORRELATION	153.55	153.96	0.4151

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	153.3	153.91	155.24	0.89363	153.95	154.05	154.32	0.1813	-0.9138	0.1431	0.6557	0.71366
1e+12	151.67	152.21	153.32	0.75651	151.15	152.25	153.95	1.1969	-0.5231	0.039425	0.6253	0.51206
5e+12	152.07	152.99	153.67	0.78291	152.07	152.72	153.38	0.53564	-1.5373	-0.2731	0.7739	1.1527
1e+13	152.38	153.3	154.3	0.83164	151.46	152.95	153.63	1.0015	-0.9206	-0.3514	0.7115	0.76931

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

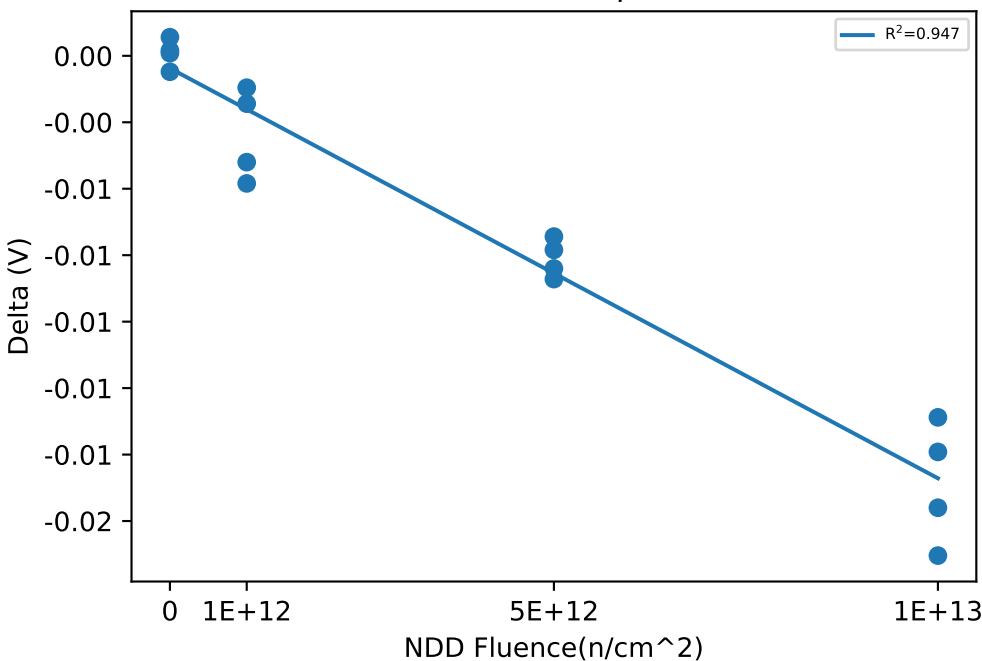
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.445	3.4402	-0.0048
229	5e+12	NDD	3.4649	3.4565	-0.0084
260	1e+13	NDD	3.4477	3.4289	-0.0188
301	1e+12	NDD	3.4596	3.4578	-0.0018
362	5e+12	NDD	3.4593	3.4513	-0.008
365	1e+13	NDD	3.4448	3.4312	-0.0136
439	1e+12	NDD	3.4506	3.4466	-0.004
514	5e+12	NDD	3.4534	3.4466	-0.0068
577	1e+13	NDD	3.4564	3.4415	-0.0149
634	1e+12	NDD	3.4584	3.4572	-0.0012
635	5e+12	NDD	3.4457	3.4384	-0.0073
713	1e+13	NDD	3.4615	3.4445	-0.017
732	0	CORRELATION	3.4463	3.4464	0.0001
742	0	CORRELATION	3.4428	3.4435	0.0007
879	0	CORRELATION	3.457	3.4572	0.0002
880	0	CORRELATION	3.4493	3.4487	-0.0006

NDD vs Post - Pre Exposure Delta

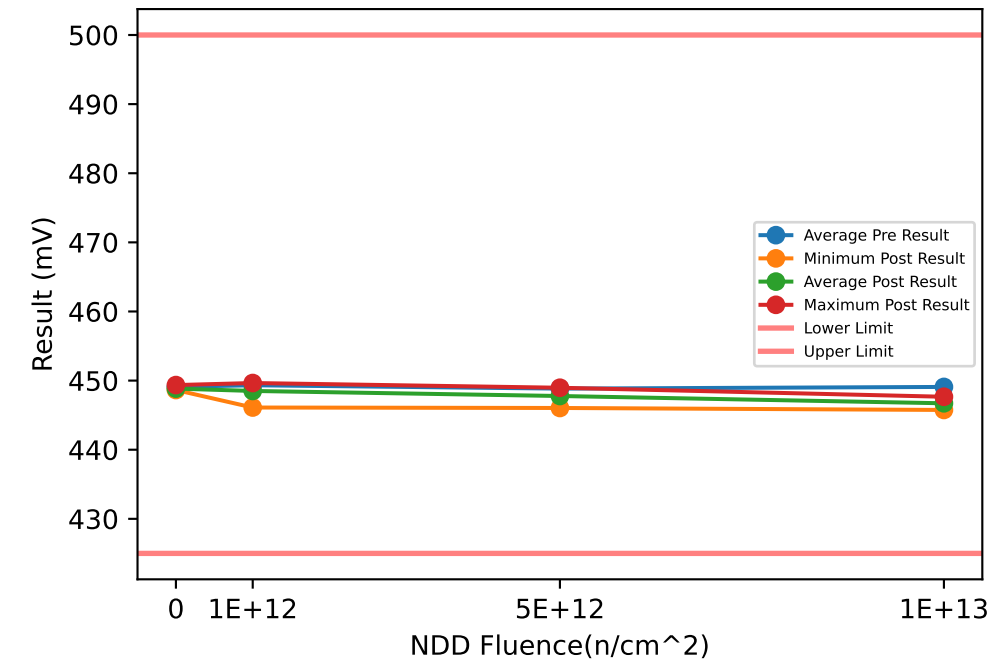


Test Statistics (V)

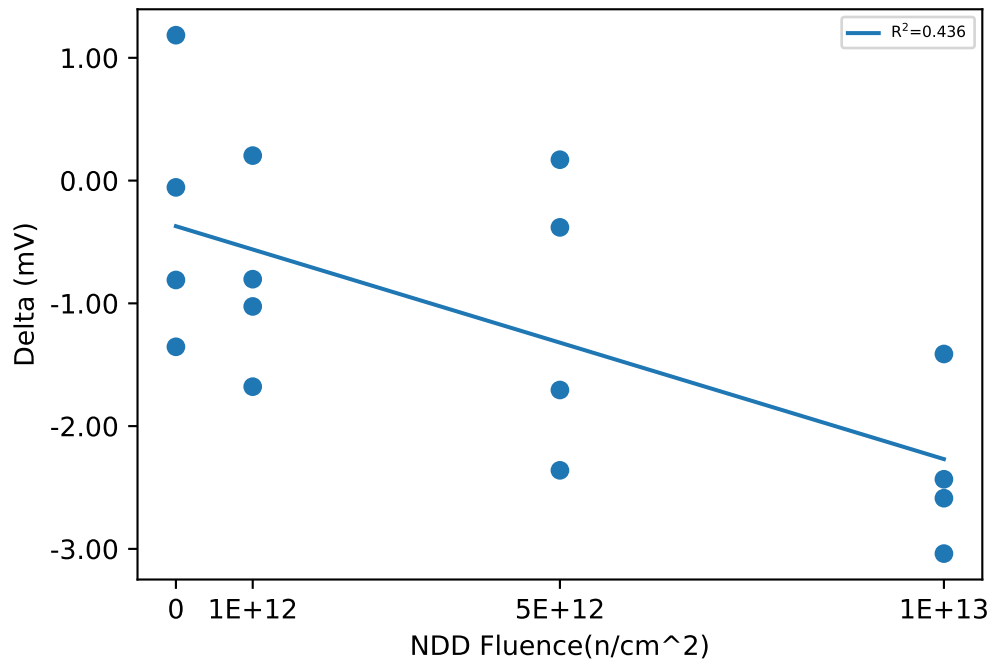
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4428	3.4489	3.457	0.0060479	3.4435	3.4489	3.4572	0.0058972	-0.0006	0.0001	0.0007	0.00053541
1e+12	3.445	3.4534	3.4596	0.006876	3.4402	3.4505	3.4578	0.0085532	-0.0048	-0.00295	-0.0012	0.0017234
5e+12	3.4457	3.4558	3.4649	0.0082225	3.4384	3.4482	3.4565	0.0076833	-0.0084	-0.007625	-0.0068	0.00071356
1e+13	3.4448	3.4526	3.4615	0.0077136	3.4289	3.4365	3.4445	0.0076343	-0.0188	-0.016075	-0.0136	0.002294

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

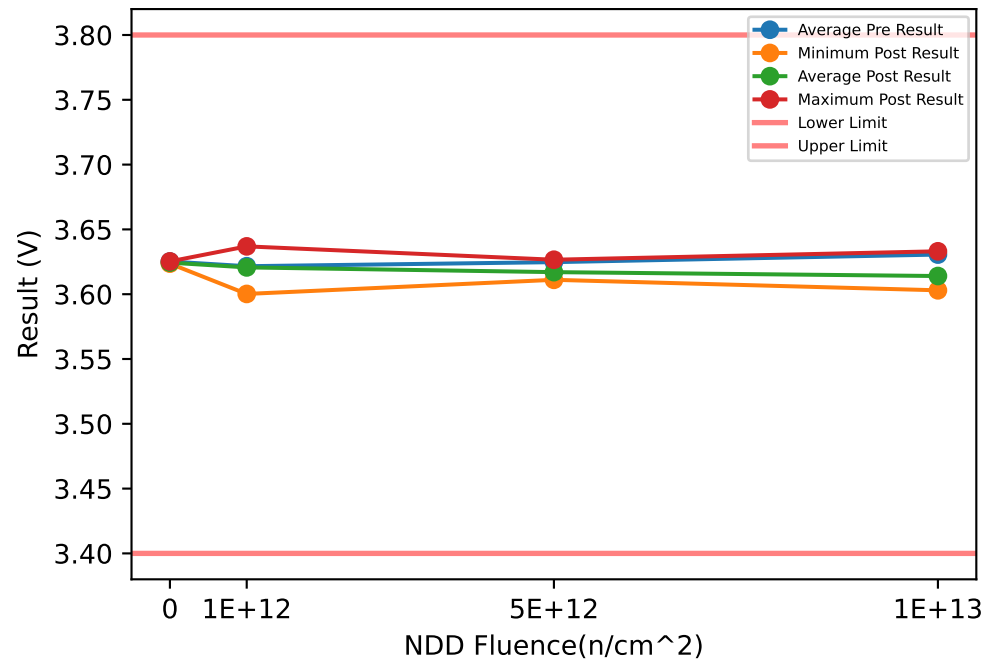
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	447.78	446.11	-1.6787
229	5e+12	NDD	451.06	448.7	-2.3601
260	1e+13	NDD	448.69	446.11	-2.5872
301	1e+12	NDD	449.45	449.65	0.2035
362	5e+12	NDD	449.08	447.38	-1.7057
365	1e+13	NDD	447.17	445.75	-1.4124
439	1e+12	NDD	450.32	449.29	-1.0251
514	5e+12	NDD	448.8	448.97	0.1701
577	1e+13	NDD	450.38	447.34	-3.0384
634	1e+12	NDD	449.76	448.96	-0.8032
635	5e+12	NDD	446.42	446.04	-0.3811
713	1e+13	NDD	450.1	447.66	-2.4329
732	0	CORRELATION	448.76	448.7	-0.0553
742	0	CORRELATION	447.49	448.68	1.1843
879	0	CORRELATION	449.45	448.64	-0.8096
880	0	CORRELATION	450.71	449.35	-1.3539

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	447.49	449.1	450.71	1.3423	448.64	448.84	449.35	0.34151	-1.3539	-0.25862	1.1843	1.0995
1e+12	447.78	449.33	450.32	1.09	446.11	448.5	449.65	1.6222	-1.6787	-0.82587	0.2035	0.78041
5e+12	446.42	448.84	451.06	1.9025	446.04	447.77	448.97	1.3482	-2.3601	-1.0692	0.1701	1.1663
1e+13	447.17	449.08	450.38	1.4763	445.75	446.72	447.66	0.92877	-3.0384	-2.3677	-1.4124	0.68675

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

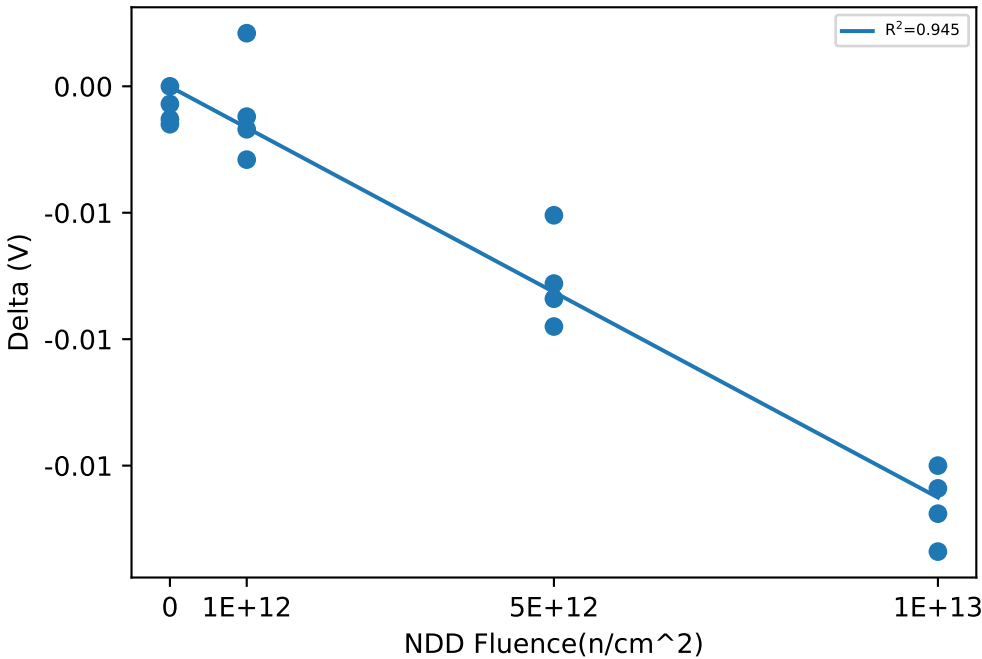
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.6168	3.6139	-0.0029
229	5e+12	NDD	3.622	3.6136	-0.0084
260	1e+13	NDD	3.6248	3.6064	-0.0184
301	1e+12	NDD	3.6019	3.6002	-0.0017
362	5e+12	NDD	3.6246	3.6168	-0.0078
365	1e+13	NDD	3.6189	3.603	-0.0159
439	1e+12	NDD	3.6329	3.6317	-0.0012
514	5e+12	NDD	3.6206	3.6111	-0.0095
577	1e+13	NDD	3.6286	3.6136	-0.015
634	1e+12	NDD	3.6348	3.6369	0.0021
635	5e+12	NDD	3.6317	3.6266	-0.0051
713	1e+13	NDD	3.65	3.6331	-0.0169
732	0	CORRELATION	3.6249	3.6236	-0.0013
742	0	CORRELATION	3.6258	3.6243	-0.0015
879	0	CORRELATION	3.6253	3.6253	0
880	0	CORRELATION	3.6249	3.6242	-0.0007

NDD vs Post - Pre Exposure Delta

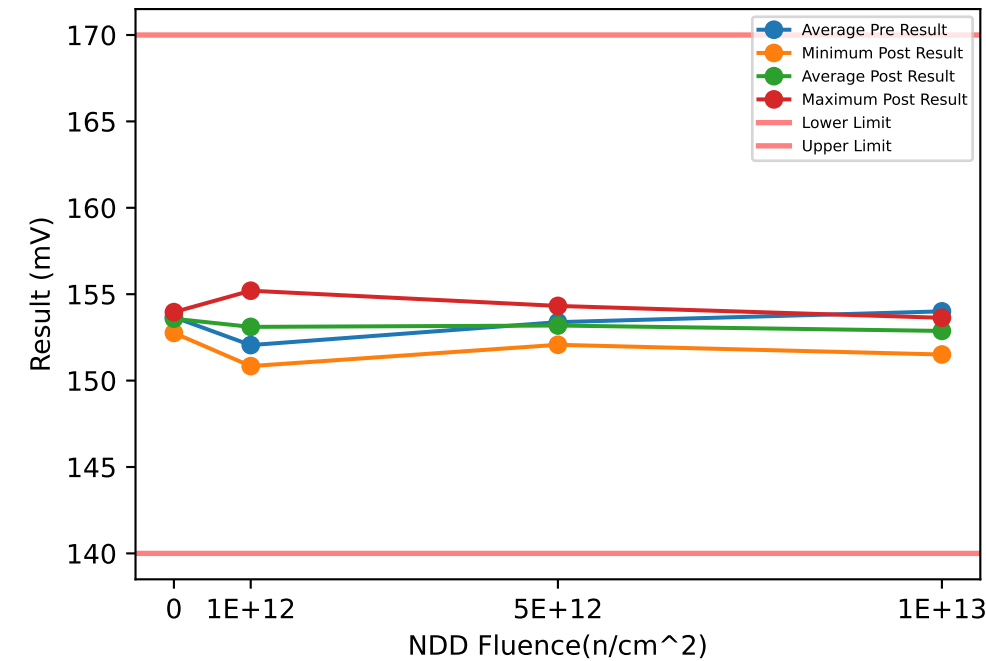


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.6249	3.6252	3.6258	0.0004272	3.6236	3.6244	3.6253	0.00070475	-0.0015	-0.000875	0	0.00067515
1e+12	3.6019	3.6216	3.6348	0.015417	3.6002	3.6207	3.6369	0.016832	-0.0029	-0.000925	0.0021	0.0021391
5e+12	3.6206	3.6247	3.6317	0.0049365	3.6111	3.617	3.6266	0.0067963	-0.0095	-0.0077	-0.0051	0.0018708
1e+13	3.6189	3.6306	3.65	0.013551	3.603	3.614	3.6331	0.013463	-0.0184	-0.01655	-0.015	0.0014572

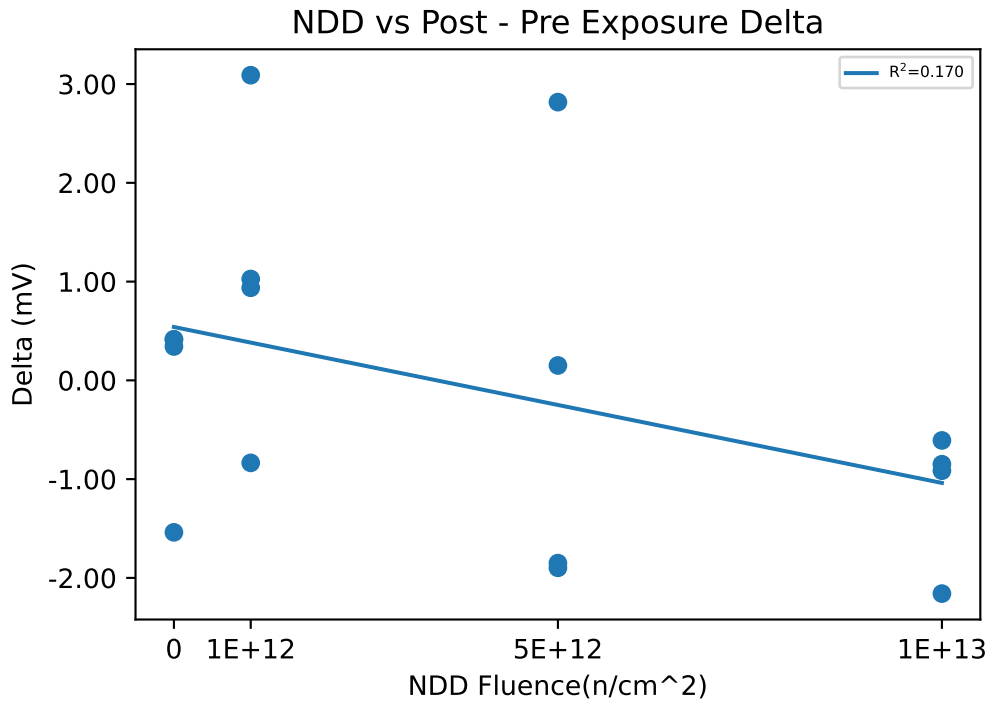
Device Test: 14.18 THRESHOLD|HYST/VIN/12////@UVLO_HYST_VIN

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
210	1e+12	NDD	151.67	150.84	-0.8354
229	5e+12	NDD	154.3	152.4	-1.8981
260	1e+13	NDD	153.63	153.03	-0.6082
301	1e+12	NDD	151.73	152.76	1.0262
362	5e+12	NDD	154.17	154.32	0.1509
365	1e+13	NDD	152.42	151.51	-0.9146
439	1e+12	NDD	152.7	153.63	0.9375
514	5e+12	NDD	153.92	152.07	-1.8503
577	1e+13	NDD	154.48	153.63	-0.849
634	1e+12	NDD	152.11	155.2	3.0897
635	5e+12	NDD	151.14	153.95	2.8171
713	1e+13	NDD	155.49	153.33	-2.1589
732	0	CORRELATION	153.24	153.65	0.4148
742	0	CORRELATION	154.3	152.76	-1.5387
879	0	CORRELATION	153.61	153.95	0.3429
880	0	CORRELATION	153.55	153.96	0.4153

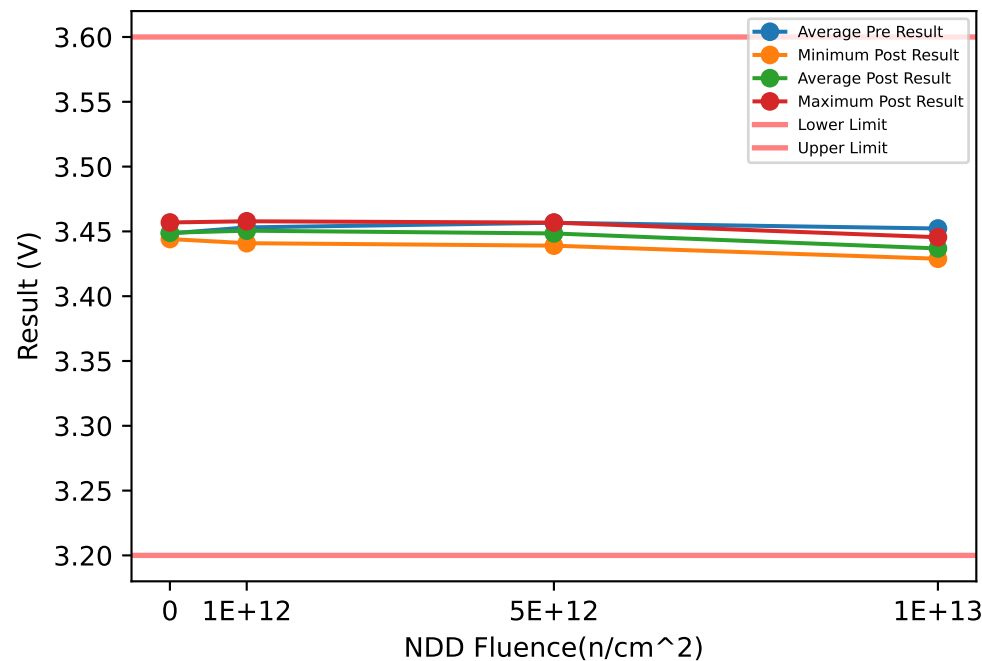


Test Statistics (mV)

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	153.24	153.67	154.3	0.44832	152.76	153.58	153.96	0.56651	-1.5387	-0.091425	0.4153	0.96545
1e+12	151.67	152.05	152.7	0.47015	150.84	153.11	155.2	1.8194	-0.8354	1.0545	3.0897	1.605
5e+12	151.14	153.38	154.3	1.5057	152.07	153.19	154.32	1.1156	-1.8981	-0.1951	2.8171	2.2236
1e+13	152.42	154.01	155.49	1.2989	151.51	152.87	153.63	0.94298	-2.1589	-1.1327	-0.6082	0.69672

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

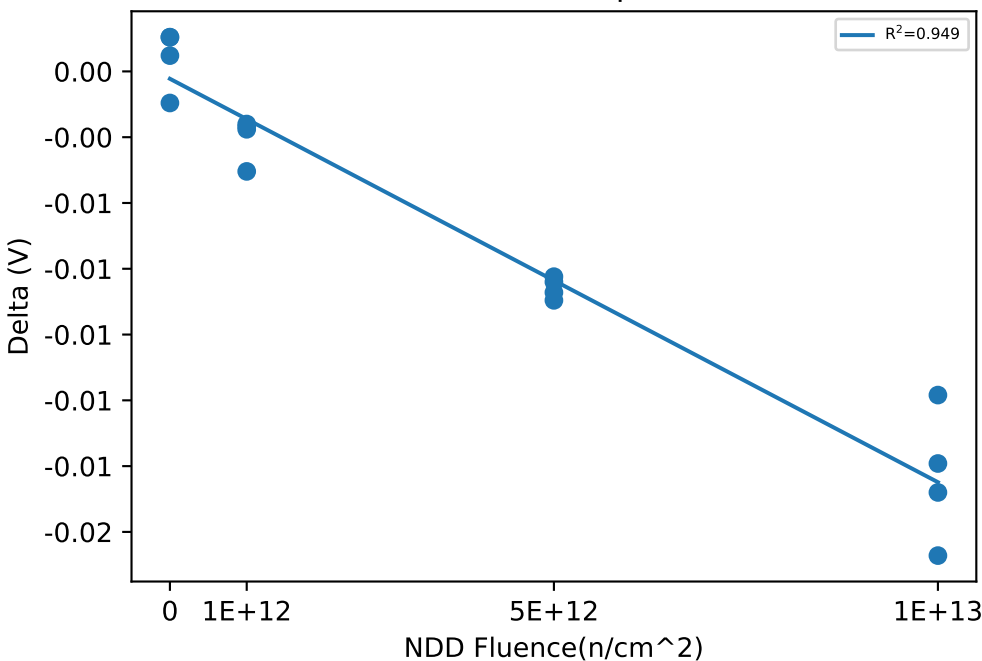
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.4447	3.4409	-0.0038
229	5e+12	NDD	3.4646	3.4568	-0.0078
260	1e+13	NDD	3.4473	3.4289	-0.0184
301	1e+12	NDD	3.4599	3.4578	-0.0021
362	5e+12	NDD	3.4603	3.4519	-0.0084
365	1e+13	NDD	3.4438	3.4315	-0.0123
439	1e+12	NDD	3.4496	3.4476	-0.002
514	5e+12	NDD	3.454	3.446	-0.008
577	1e+13	NDD	3.4564	3.4415	-0.0149
634	1e+12	NDD	3.4581	3.4559	-0.0022
635	5e+12	NDD	3.4477	3.439	-0.0087
713	1e+13	NDD	3.4615	3.4455	-0.016
732	0	CORRELATION	3.4457	3.447	0.0013
742	0	CORRELATION	3.4428	3.4441	0.0013
879	0	CORRELATION	3.4563	3.4569	0.0006
880	0	CORRELATION	3.4489	3.4477	-0.0012

NDD vs Post - Pre Exposure Delta

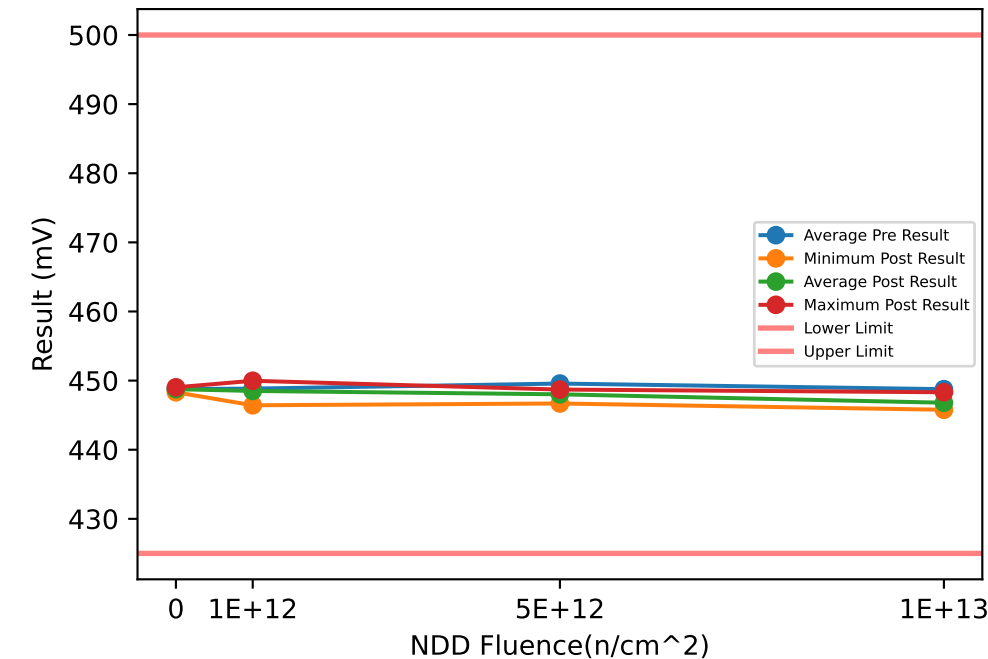


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4428	3.4484	3.4563	0.0058111	3.4441	3.4489	3.4569	0.0055404	-0.0012	0.0005	0.0013	0.0011804
1e+12	3.4447	3.4531	3.4599	0.0071658	3.4409	3.4506	3.4578	0.0078105	-0.0038	-0.002525	-0.002	0.00085391
5e+12	3.4477	3.4567	3.4646	0.0073858	3.439	3.4484	3.4568	0.0076796	-0.0087	-0.008225	-0.0078	0.00040311
1e+13	3.4438	3.4522	3.4615	0.0081382	3.4289	3.4369	3.4455	0.0079219	-0.0184	-0.0154	-0.0123	0.0025311

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

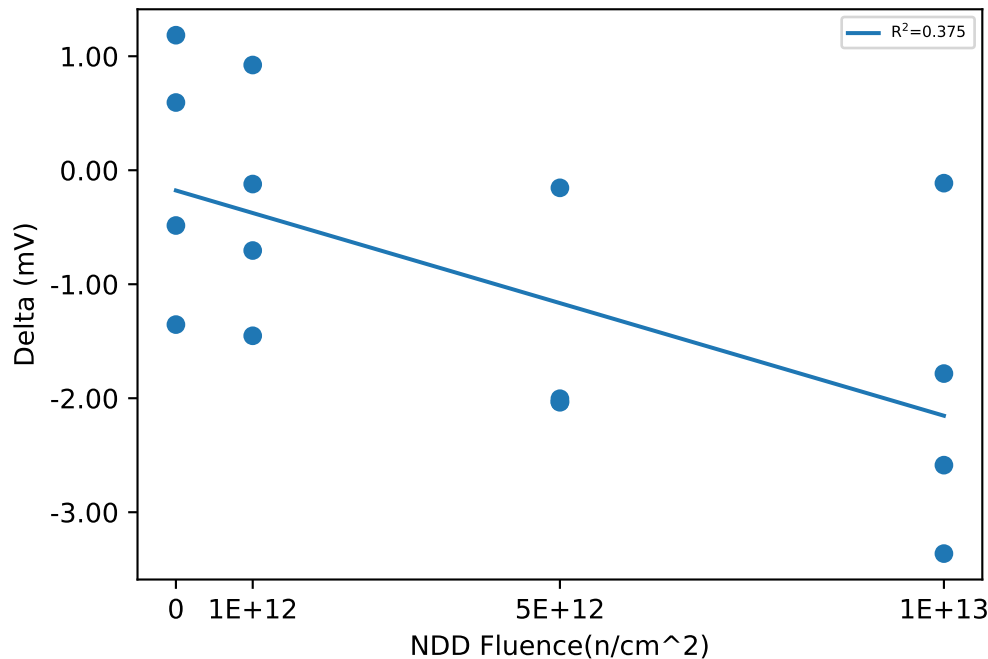
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	447.13	446.43	-0.7043
229	5e+12	NDD	450.74	448.7	-2.0354
260	1e+13	NDD	448.37	445.78	-2.5871
301	1e+12	NDD	450.1	449.97	-0.1211
362	5e+12	NDD	450.06	448.03	-2.0304
365	1e+13	NDD	446.19	446.08	-0.1134
439	1e+12	NDD	449.02	449.94	0.923
514	5e+12	NDD	448.8	448.64	-0.1544
577	1e+13	NDD	450.38	447.02	-3.3629
634	1e+12	NDD	449.11	447.66	-1.4522
635	5e+12	NDD	448.69	446.69	-2.0042
713	1e+13	NDD	450.1	448.31	-1.7837
732	0	CORRELATION	448.43	449.03	0.5941
742	0	CORRELATION	447.82	449	1.1846
879	0	CORRELATION	448.8	448.31	-0.4848
880	0	CORRELATION	450.06	448.7	-1.354

NDD vs Post - Pre Exposure Delta

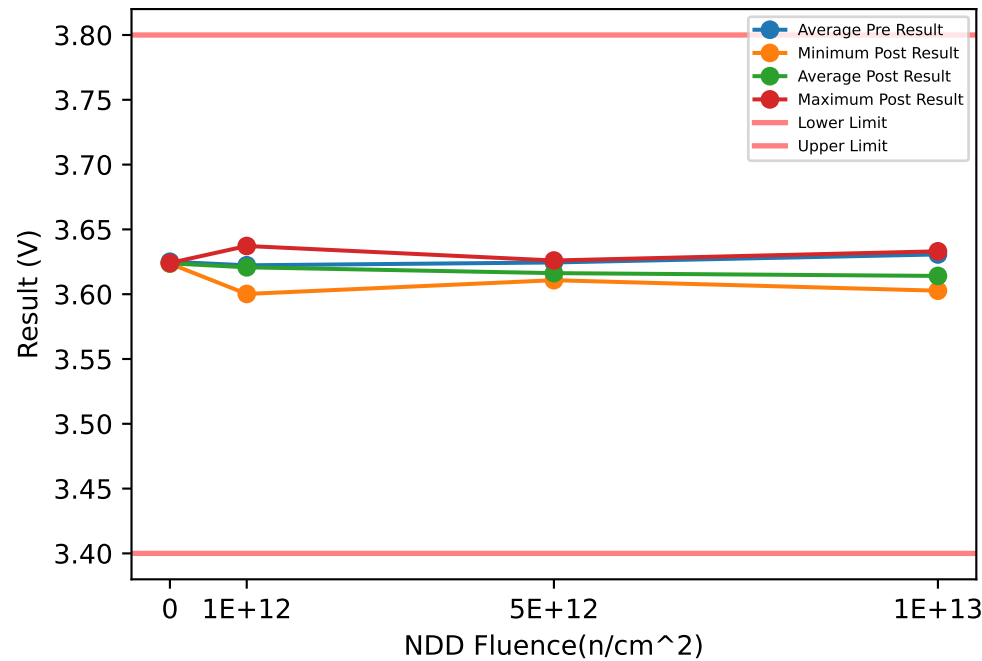


Test Statistics (mV)

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	447.82	448.78	450.06	0.94524	448.31	448.76	449.03	0.33348	-1.354	-0.015025	1.1846	1.129
1e+12	447.13	448.84	450.1	1.2371	446.43	448.5	449.97	1.7544	-1.4522	-0.33865	0.923	1.0021
5e+12	448.69	449.57	450.74	0.995	446.69	448.01	448.7	0.93554	-2.0354	-1.5561	-0.1544	0.93457
1e+13	446.19	448.76	450.38	1.9289	445.78	446.8	448.31	1.139	-3.3629	-1.9618	-0.1134	1.3907

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

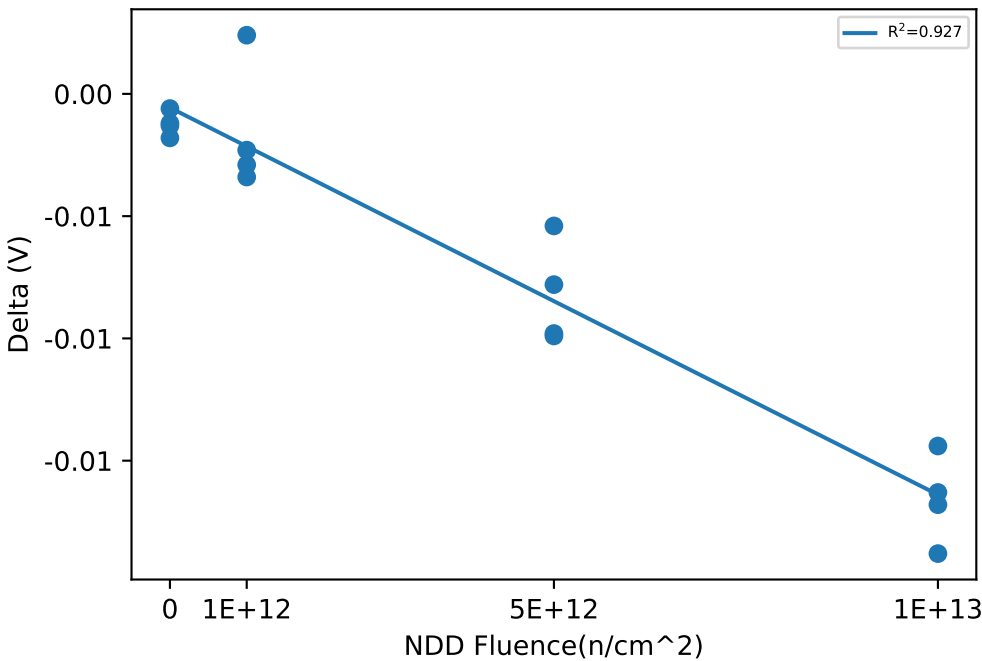
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.6168	3.6139	-0.0029
229	5e+12	NDD	3.6217	3.6139	-0.0078
260	1e+13	NDD	3.6255	3.6067	-0.0188
301	1e+12	NDD	3.6025	3.6002	-0.0023
362	5e+12	NDD	3.6242	3.6143	-0.0099
365	1e+13	NDD	3.6195	3.6027	-0.0168
439	1e+12	NDD	3.6351	3.6317	-0.0034
514	5e+12	NDD	3.6206	3.6108	-0.0098
577	1e+13	NDD	3.6283	3.6139	-0.0144
634	1e+12	NDD	3.6348	3.6372	0.0024
635	5e+12	NDD	3.6314	3.626	-0.0054
713	1e+13	NDD	3.6494	3.6331	-0.0163
732	0	CORRELATION	3.6242	3.6236	-0.0006
742	0	CORRELATION	3.6258	3.624	-0.0018
879	0	CORRELATION	3.6253	3.6241	-0.0012
880	0	CORRELATION	3.6249	3.6236	-0.0013

NDD vs Post - Pre Exposure Delta

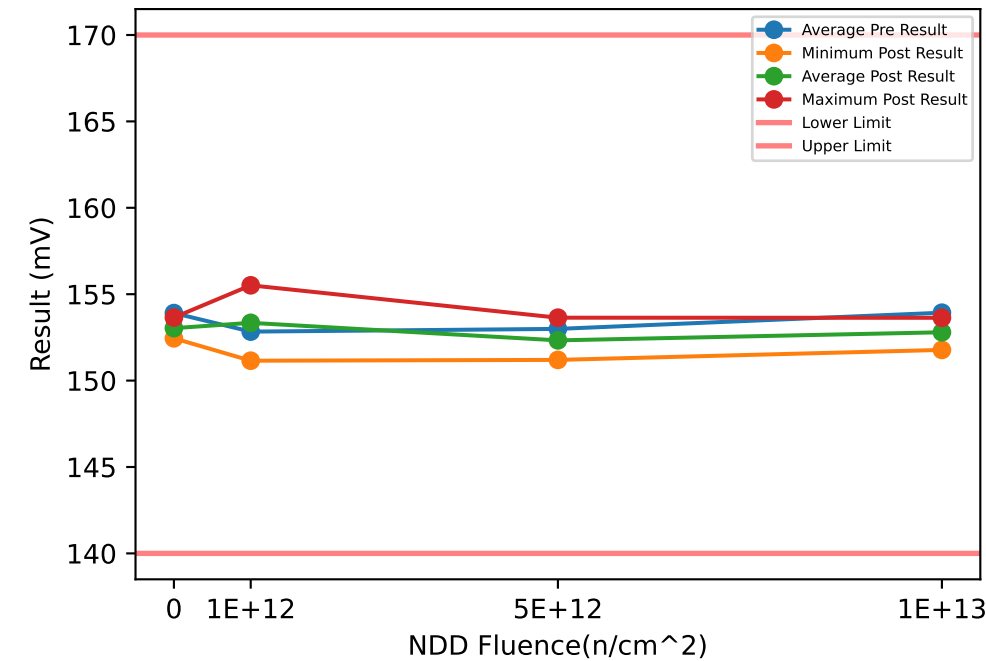


Test Statistics (V)

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	3.6242	3.625	3.6258	0.00067577	3.6236	3.6238	3.6241	0.000263	-0.0018	-0.001225	-0.0006	0.00049244
1e+12	3.6025	3.6223	3.6351	0.015731	3.6002	3.6208	3.6372	0.016929	-0.0034	-0.00155	0.0024	0.0026715
5e+12	3.6206	3.6245	3.6314	0.0048562	3.6108	3.6162	3.626	0.0066856	-0.0099	-0.008225	-0.0054	0.0021172
1e+13	3.6195	3.6307	3.6494	0.013012	3.6027	3.6141	3.6331	0.013488	-0.0188	-0.016575	-0.0144	0.0018081

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

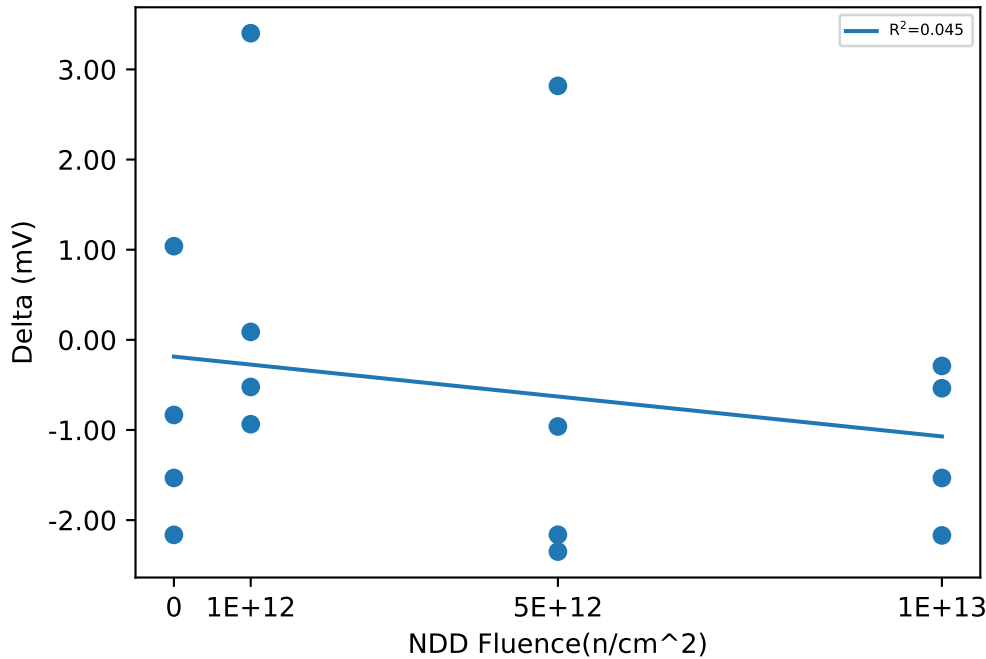
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	151.67	151.15	-0.5231
229	5e+12	NDD	153.67	152.71	-0.9611
260	1e+13	NDD	153.95	151.78	-2.1696
301	1e+12	NDD	152.67	152.76	0.088
362	5e+12	NDD	153.55	151.2	-2.3493
365	1e+13	NDD	153.05	152.76	-0.2899
439	1e+12	NDD	154.88	153.95	-0.9361
514	5e+12	NDD	153.92	151.76	-2.1624
577	1e+13	NDD	154.17	153.63	-0.5371
634	1e+12	NDD	152.11	155.51	3.4018
635	5e+12	NDD	150.82	153.64	2.8174
713	1e+13	NDD	154.55	153.02	-1.5326
732	0	CORRELATION	152.61	153.65	1.039
742	0	CORRELATION	154.61	152.45	-2.1637
879	0	CORRELATION	154.24	152.7	-1.5323
880	0	CORRELATION	154.17	153.34	-0.8337

NDD vs Post - Pre Exposure Delta

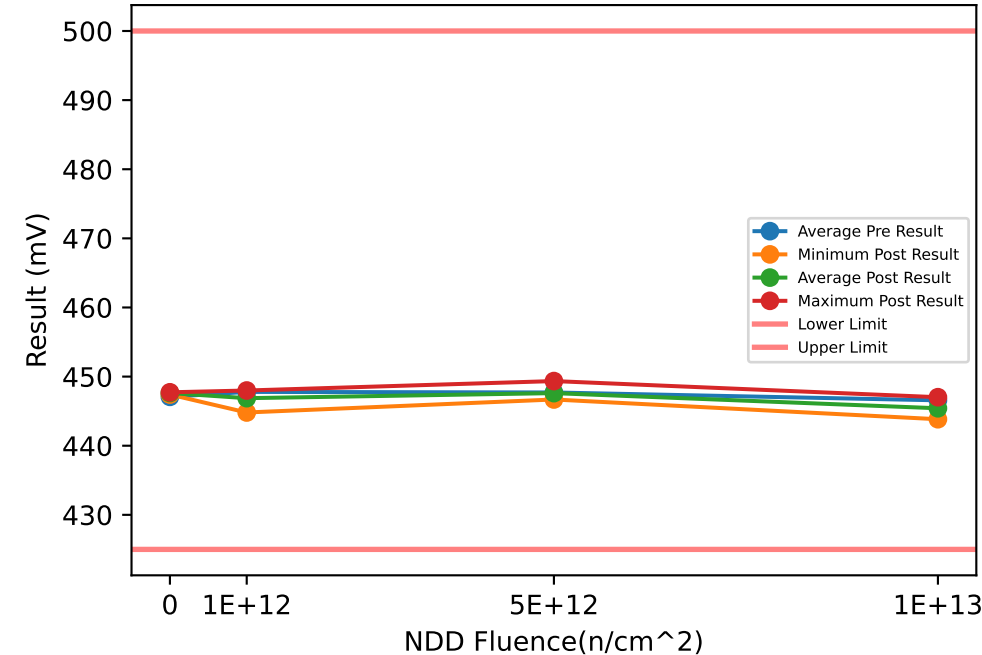


Test Statistics (mV)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	152.61	153.91	154.61	0.88576	152.45	153.03	153.65	0.55518	-2.1637	-0.87267	1.039	1.3854
1e+12	151.67	152.84	154.88	1.4247	151.15	153.34	155.51	1.8458	-0.9361	0.50765	3.4018	1.9748
5e+12	150.82	152.99	153.92	1.4542	151.2	152.33	153.64	1.0755	-2.3493	-0.66385	2.8174	2.401
1e+13	153.05	153.93	154.55	0.63685	151.78	152.8	153.63	0.77297	-2.1696	-1.1323	-0.2899	0.87562

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

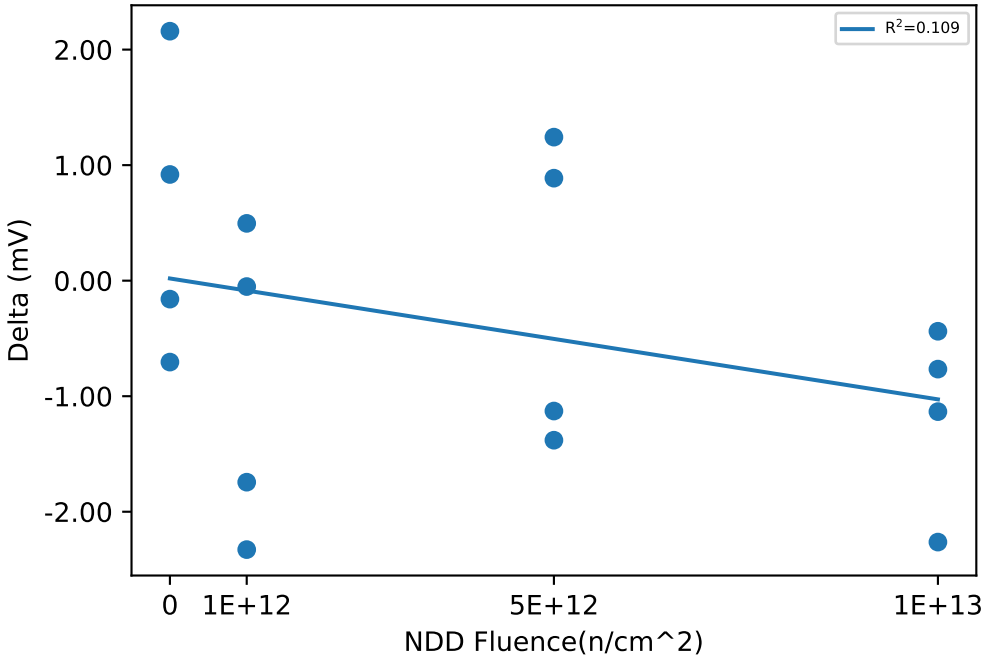
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	447.13	444.81	-2.3277
229	5e+12	NDD	448.47	449.35	0.8872
260	1e+13	NDD	446.1	443.83	-2.2627
301	1e+12	NDD	449.12	447.38	-1.7442
362	5e+12	NDD	448.76	447.38	-1.3809
365	1e+13	NDD	444.89	444.45	-0.4379
439	1e+12	NDD	447.39	447.34	-0.0509
514	5e+12	NDD	448.15	447.02	-1.1284
577	1e+13	NDD	447.78	447.02	-0.7655
634	1e+12	NDD	447.49	447.99	0.4959
635	5e+12	NDD	445.45	446.69	1.2424
713	1e+13	NDD	447.5	446.36	-1.1335
732	0	CORRELATION	448.11	447.4	-0.7047
742	0	CORRELATION	445.54	447.7	2.1593
879	0	CORRELATION	447.82	447.66	-0.1598
880	0	CORRELATION	446.81	447.73	0.9192

NDD vs Post - Pre Exposure Delta

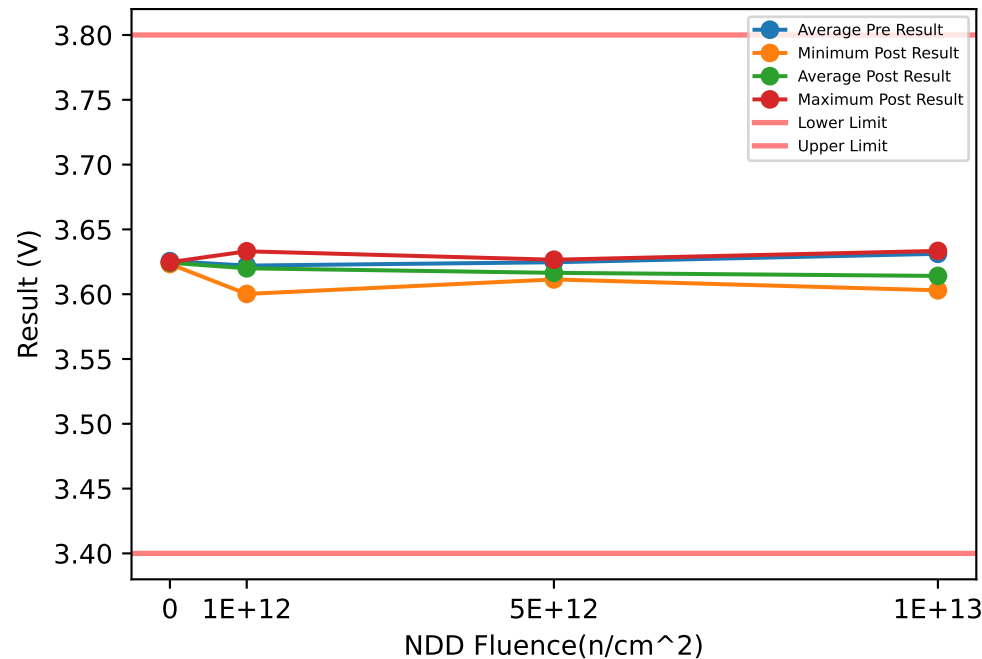


Test Statistics (mV)

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	445.54	447.07	448.11	1.1613	447.4	447.62	447.73	0.1494	-0.7047	0.5535	2.1593	1.2655
1e+12	447.13	447.79	449.12	0.90326	444.81	446.88	447.99	1.4124	-2.3277	-0.90673	0.4959	1.3442
5e+12	445.45	447.7	448.76	1.5258	446.69	447.61	449.35	1.1957	-1.3809	-0.094925	1.2424	1.3509
1e+13	444.89	446.57	447.78	1.3381	443.83	445.42	447.02	1.5163	-2.2627	-1.1499	-0.4379	0.79442

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

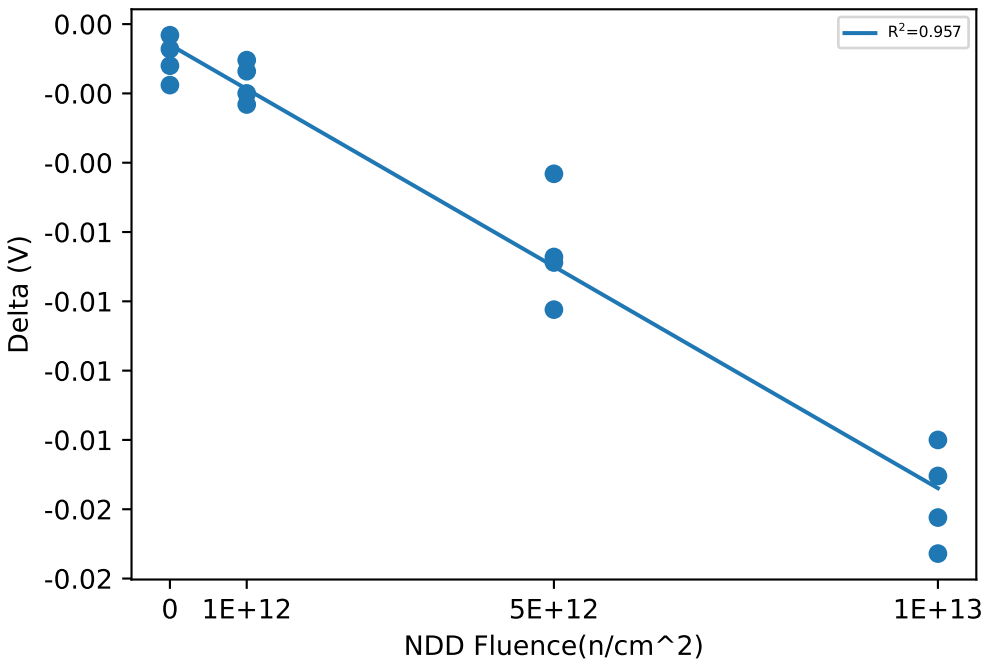
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.6171	3.6158	-0.0013
229	5e+12	NDD	3.622	3.6136	-0.0084
260	1e+13	NDD	3.6255	3.6064	-0.0191
301	1e+12	NDD	3.6031	3.6002	-0.0029
362	5e+12	NDD	3.6246	3.6143	-0.0103
365	1e+13	NDD	3.6208	3.603	-0.0178
439	1e+12	NDD	3.6333	3.6308	-0.0025
514	5e+12	NDD	3.62	3.6114	-0.0086
577	1e+13	NDD	3.6286	3.6136	-0.015
634	1e+12	NDD	3.6348	3.6331	-0.0017
635	5e+12	NDD	3.632	3.6266	-0.0054
713	1e+13	NDD	3.6497	3.6334	-0.0163
732	0	CORRELATION	3.6249	3.6245	-0.0004
742	0	CORRELATION	3.6261	3.6246	-0.0015
879	0	CORRELATION	3.6256	3.6247	-0.0009
880	0	CORRELATION	3.6255	3.6233	-0.0022

NDD vs Post - Pre Exposure Delta

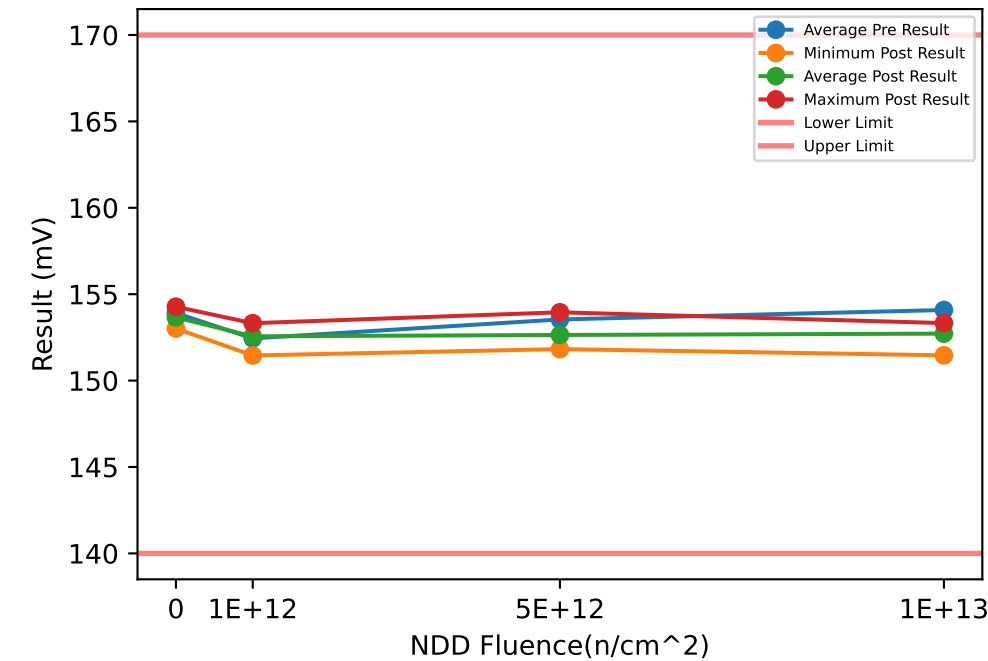


Test Statistics (V)

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	3.6249	3.6255	3.6261	0.00049244	3.6233	3.6243	3.6247	0.00065511	-0.0022	-0.00125	-0.0004	0.00077675
1e+12	3.6031	3.6221	3.6348	0.014975	3.6002	3.62	3.6331	0.015253	-0.0029	-0.0021	-0.0013	0.0007303
5e+12	3.62	3.6246	3.632	0.0052494	3.6114	3.6165	3.6266	0.0068622	-0.0103	-0.008175	-0.0054	0.002037
1e+13	3.6208	3.6311	3.6497	0.012776	3.603	3.6141	3.6334	0.013604	-0.0191	-0.01705	-0.015	0.0017823

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

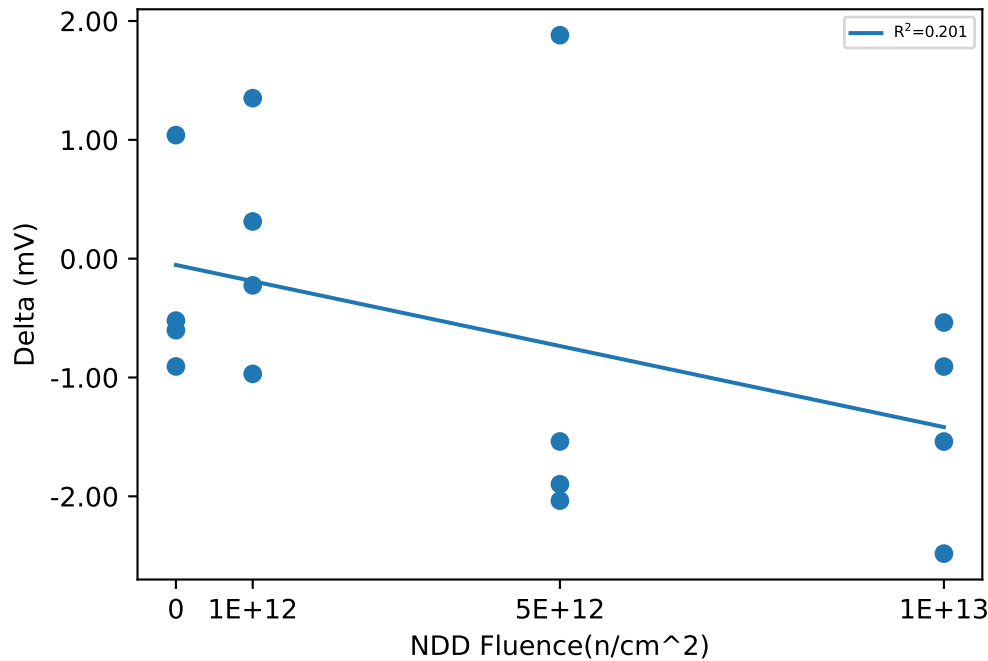
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	151.67	153.03	1.3509
229	5e+12	NDD	154.3	152.4	-1.8981
260	1e+13	NDD	153.95	151.46	-2.482
301	1e+12	NDD	152.67	152.45	-0.2246
362	5e+12	NDD	153.86	151.82	-2.0363
365	1e+13	NDD	154.61	153.07	-1.539
439	1e+12	NDD	153.01	153.32	0.313
514	5e+12	NDD	153.92	152.38	-1.5382
577	1e+13	NDD	153.55	153.01	-0.5374
634	1e+12	NDD	152.42	151.45	-0.9696
635	5e+12	NDD	152.07	153.95	1.8806
713	1e+13	NDD	154.24	153.33	-0.9079
732	0	CORRELATION	153.24	154.27	1.0397
742	0	CORRELATION	154.61	154.01	-0.6018
879	0	CORRELATION	153.92	153.02	-0.9071
880	0	CORRELATION	153.86	153.34	-0.5212

NDD vs Post - Pre Exposure Delta

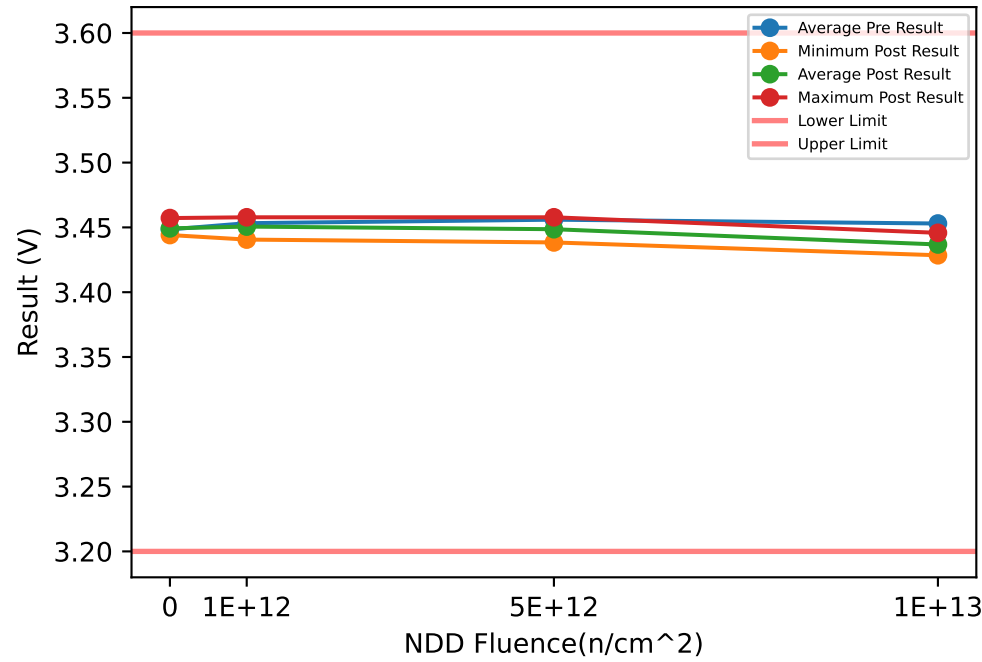


Test Statistics (mV)

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	153.24	153.91	154.61	0.56262	153.02	153.66	154.27	0.58266	-0.9071	-0.2476	1.0397	0.87415
1e+12	151.67	152.44	153.01	0.56675	151.45	152.56	153.32	0.8228	-0.9696	0.11743	1.3509	0.9761
5e+12	152.07	153.54	154.3	0.99642	151.82	152.64	153.95	0.91542	-2.0363	-0.898	1.8806	1.8643
1e+13	153.55	154.08	154.61	0.45038	151.46	152.72	153.33	0.84775	-2.482	-1.3666	-0.5374	0.85085

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

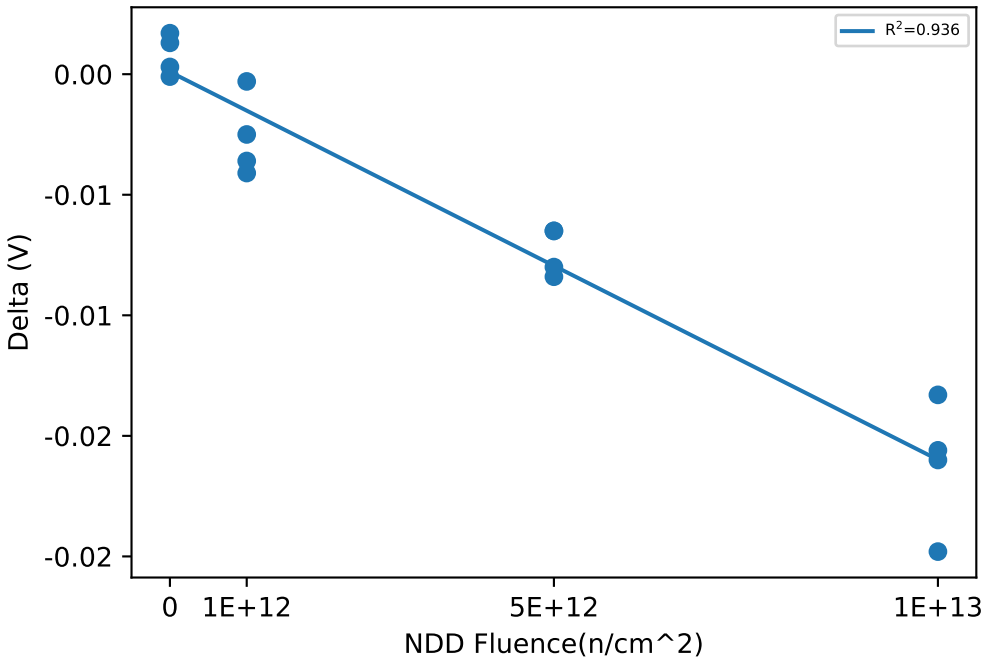
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.4447	3.4406	-0.0041
229	5e+12	NDD	3.4643	3.4578	-0.0065
260	1e+13	NDD	3.4483	3.4285	-0.0198
301	1e+12	NDD	3.4596	3.4571	-0.0025
362	5e+12	NDD	3.4597	3.4532	-0.0065
365	1e+13	NDD	3.4445	3.4312	-0.0133
439	1e+12	NDD	3.4506	3.447	-0.0036
514	5e+12	NDD	3.4534	3.445	-0.0084
577	1e+13	NDD	3.4574	3.4418	-0.0156
634	1e+12	NDD	3.4581	3.4578	-0.0003
635	5e+12	NDD	3.4464	3.4384	-0.008
713	1e+13	NDD	3.4618	3.4458	-0.016
732	0	CORRELATION	3.4457	3.4474	0.0017
742	0	CORRELATION	3.4428	3.4441	0.0013
879	0	CORRELATION	3.4573	3.4572	-0.0001
880	0	CORRELATION	3.448	3.4483	0.0003

NDD vs Post - Pre Exposure Delta

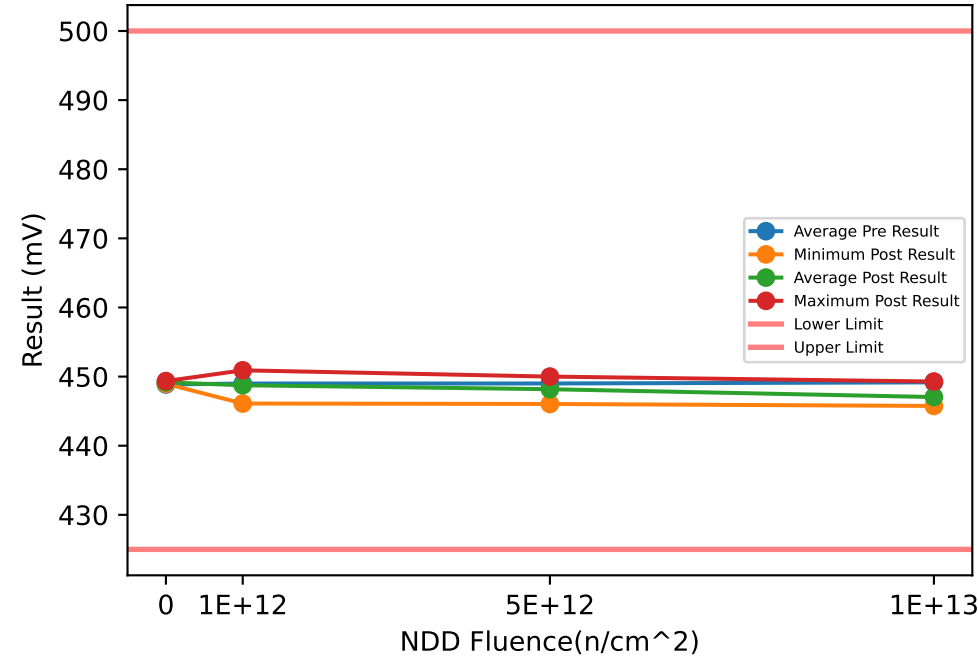


Test Statistics (V)

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	3.4428	3.4485	3.4573	0.0062719	3.4441	3.4493	3.4572	0.0055991	-0.0001	0.0008	0.0017	0.00084063
1e+12	3.4447	3.4533	3.4596	0.0069275	3.4406	3.4506	3.4578	0.0083076	-0.0041	-0.002625	-0.0003	0.0016879
5e+12	3.4464	3.456	3.4643	0.007778	3.4384	3.4486	3.4578	0.0086178	-0.0084	-0.00735	-0.0065	0.00099499
1e+13	3.4445	3.453	3.4618	0.0079821	3.4285	3.4368	3.4458	0.0082915	-0.0198	-0.016175	-0.0133	0.0026937

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

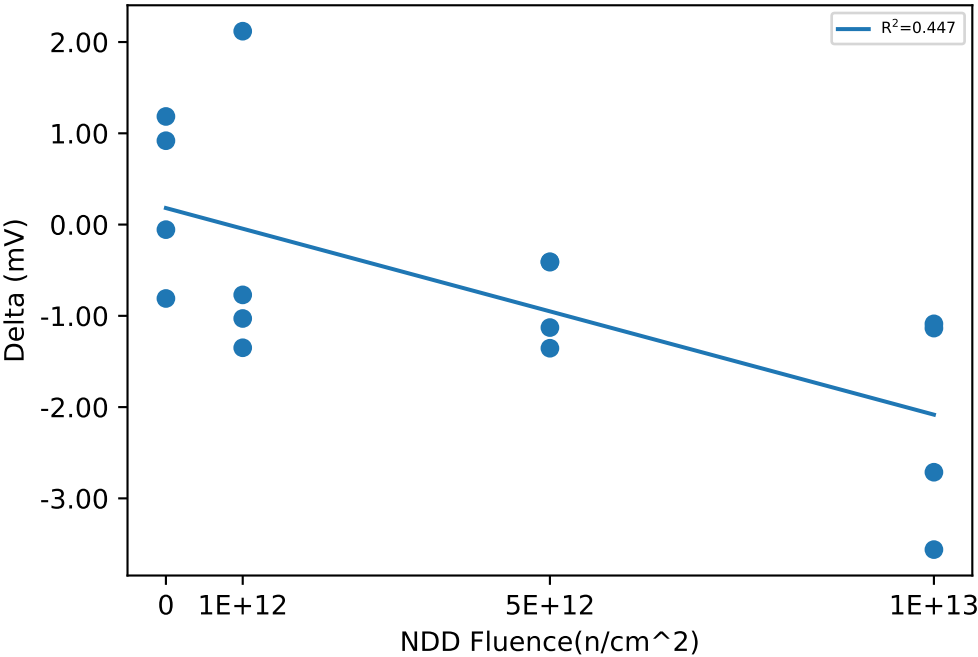
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	447.13	446.11	-1.029
229	5e+12	NDD	450.41	450	-0.412
260	1e+13	NDD	449.34	445.78	-3.5613
301	1e+12	NDD	449.45	448.68	-0.7704
362	5e+12	NDD	449.73	449.32	-0.407
365	1e+13	NDD	446.84	445.75	-1.0877
439	1e+12	NDD	450.64	449.29	-1.3498
514	5e+12	NDD	448.47	447.34	-1.1284
577	1e+13	NDD	450.06	447.34	-2.7135
634	1e+12	NDD	448.79	450.91	2.1188
635	5e+12	NDD	447.39	446.04	-1.355
713	1e+13	NDD	450.42	449.29	-1.1344
732	0	CORRELATION	448.43	449.35	0.9189
742	0	CORRELATION	447.82	449	1.1846
879	0	CORRELATION	449.77	448.96	-0.8098
880	0	CORRELATION	449.41	449.35	-0.0555

NDD vs Post - Pre Exposure Delta

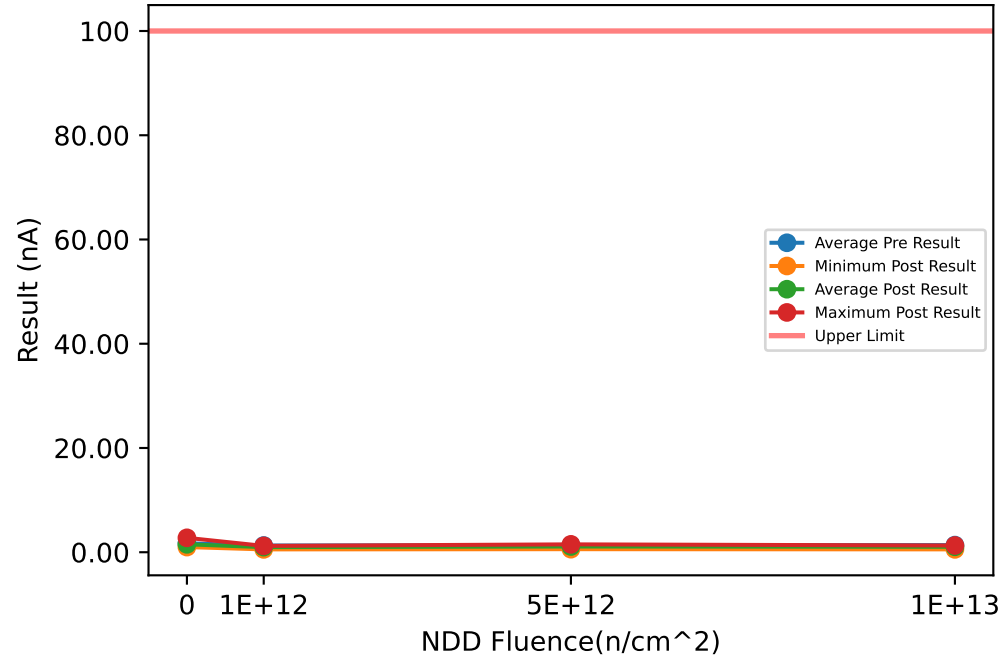


Test Statistics (mV)

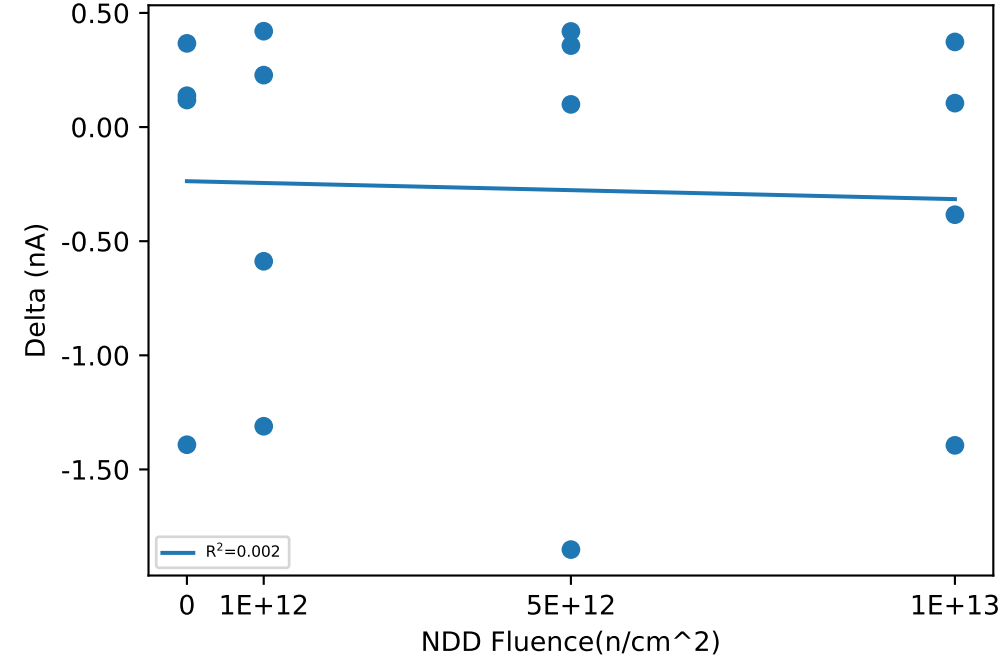
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	447.82	448.86	449.77	0.8947	448.96	449.17	449.35	0.21515	-0.8098	0.30955	1.1846	0.9171
1e+12	447.13	449	450.64	1.4623	446.11	448.75	450.91	1.996	-1.3498	-0.2576	2.1188	1.6019
5e+12	447.39	449	450.41	1.3407	446.04	448.18	450	1.8178	-1.355	-0.8256	-0.407	0.4893
1e+13	446.84	449.17	450.42	1.6126	445.75	447.04	449.29	1.6708	-3.5613	-2.1242	-1.0877	1.2202

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))

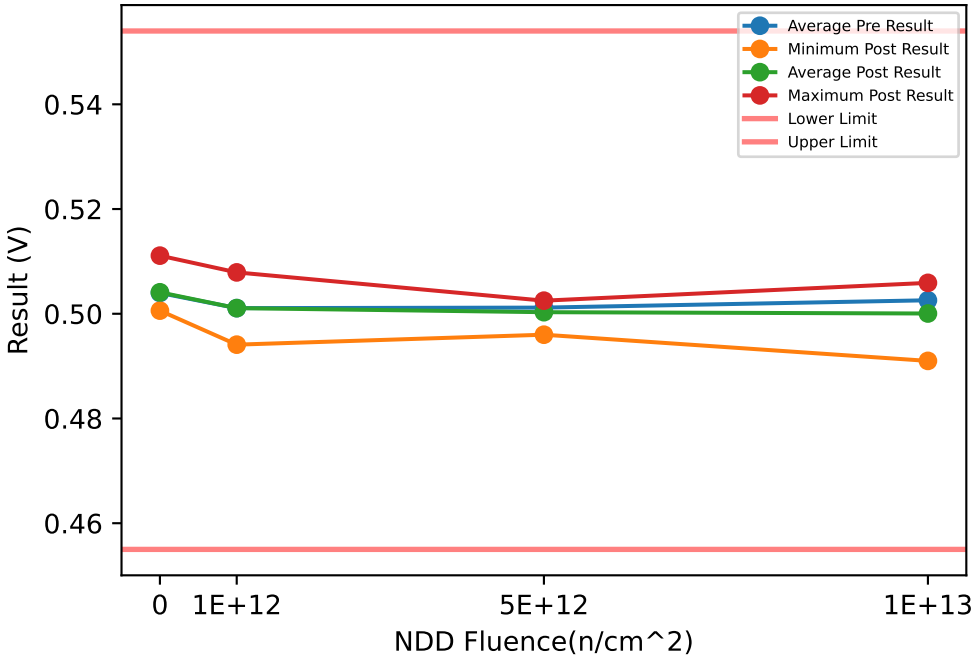
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.8342	1.0618	0.2276
229	5e+12	NDD	0.733	1.0899	0.3569
260	1e+13	NDD	1.0475	1.1523	0.1048
301	1e+12	NDD	2.4044	1.0936	-1.3108
362	5e+12	NDD	1.0931	1.512	0.4189
365	1e+13	NDD	0.8111	1.1841	0.373
439	1e+12	NDD	1.1318	0.5438	-0.588
514	5e+12	NDD	2.4356	0.5844	-1.8512
577	1e+13	NDD	0.9309	0.5469	-0.384
634	1e+12	NDD	0.7955	1.2155	0.42
635	5e+12	NDD	1.1131	1.2124	0.0993
713	1e+13	NDD	2.685	1.2905	-1.3945
732	0	CORRELATION	0.8716	0.99	0.1184
742	0	CORRELATION	2.3975	2.7642	0.3667
879	0	CORRELATION	2.5011	1.1094	-1.3917
880	0	CORRELATION	1.065	1.2023	0.1373

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	0.8716	1.7088	2.5011	0.85973	0.99	1.5165	2.7642	0.83634	-1.3917	-0.19232	0.3667	0.80751
1e+12	0.7955	1.2915	2.4044	0.75701	0.5438	0.97867	1.2155	0.29739	-1.3108	-0.3128	0.42	0.79598
5e+12	0.733	1.3437	2.4356	0.74859	0.5844	1.0997	1.512	0.38658	-1.8512	-0.24402	0.4189	1.0803
1e+13	0.8111	1.3686	2.685	0.88287	0.5469	1.0434	1.2905	0.33627	-1.3945	-0.32517	0.373	0.77873

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

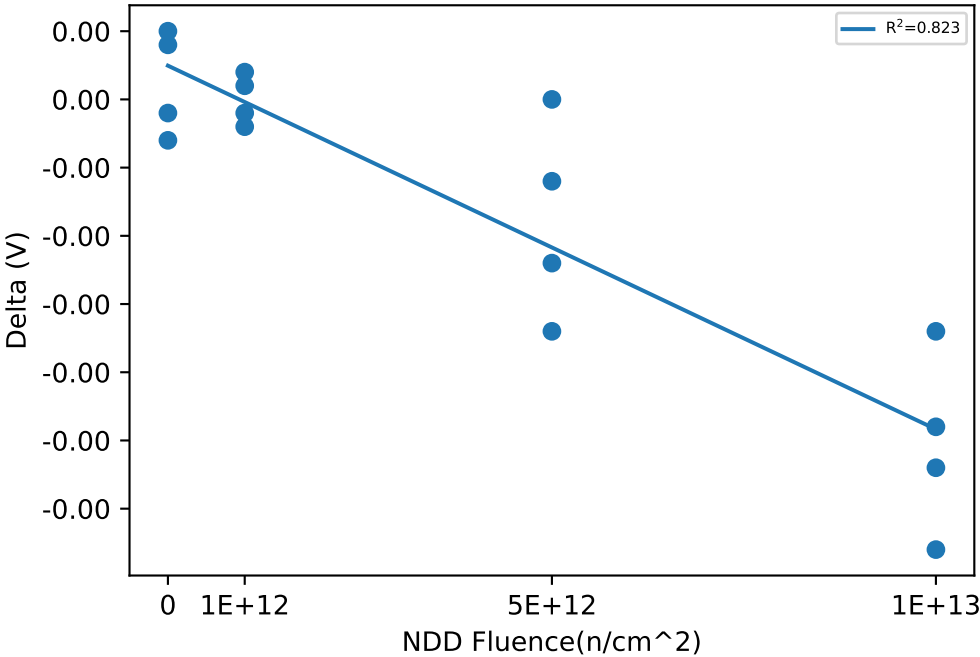
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4942	0.4941	-0.0001
229	5e+12	NDD	0.5037	0.5025	-0.0012
260	1e+13	NDD	0.5083	0.5059	-0.0024
301	1e+12	NDD	0.4984	0.4985	0.0001
362	5e+12	NDD	0.5027	0.501	-0.0017
365	1e+13	NDD	0.5012	0.4985	-0.0027
439	1e+12	NDD	0.5036	0.5038	0.0002
514	5e+12	NDD	0.4966	0.496	-0.0006
577	1e+13	NDD	0.4927	0.491	-0.0017
634	1e+12	NDD	0.5081	0.5079	-0.0002
635	5e+12	NDD	0.5017	0.5017	0
713	1e+13	NDD	0.5081	0.5048	-0.0033
732	0	CORRELATION	0.5002	0.5006	0.0004
742	0	CORRELATION	0.5031	0.5028	-0.0003
879	0	CORRELATION	0.5106	0.5111	0.0005
880	0	CORRELATION	0.502	0.5019	-0.0001

NDD vs Post - Pre Exposure Delta

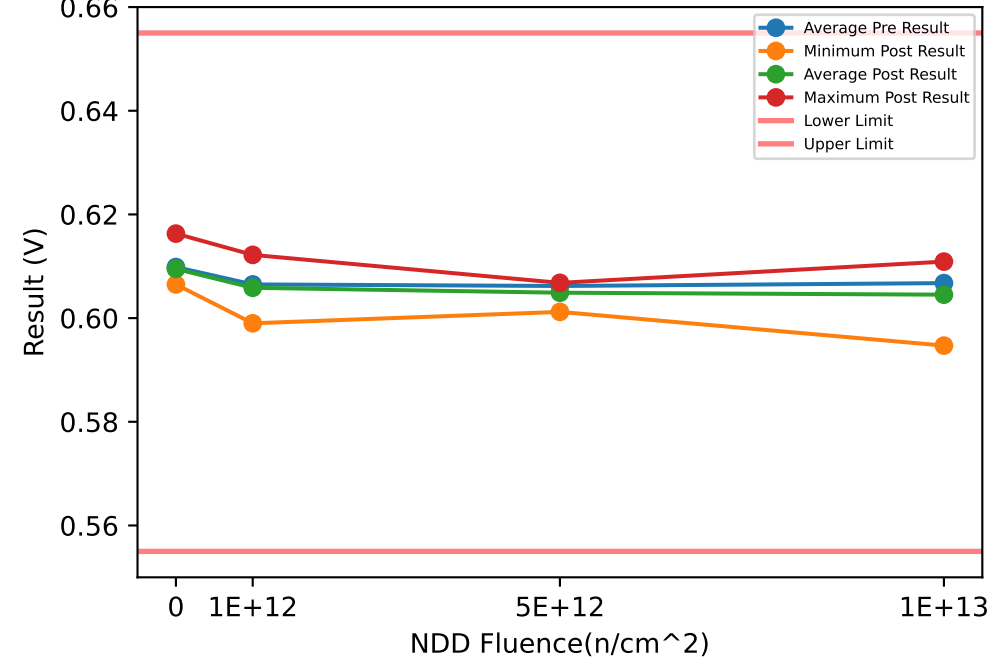


Test Statistics (V)

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	0.5002	0.50398	0.5106	0.0045756	0.5006	0.5041	0.5111	0.0047532	-0.0003	0.000125	0.0005	0.00038622
1e+12	0.4942	0.50107	0.5081	0.0060594	0.4941	0.50107	0.5079	0.0060357	-0.0002	0	0.0002	0.00018257
5e+12	0.4966	0.50118	0.5037	0.0031574	0.496	0.5003	0.5025	0.0029314	-0.0017	-0.000875	0	0.00073655
1e+13	0.4927	0.50257	0.5083	0.0073645	0.491	0.50005	0.5059	0.0068578	-0.0033	-0.002525	-0.0017	0.00066521

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

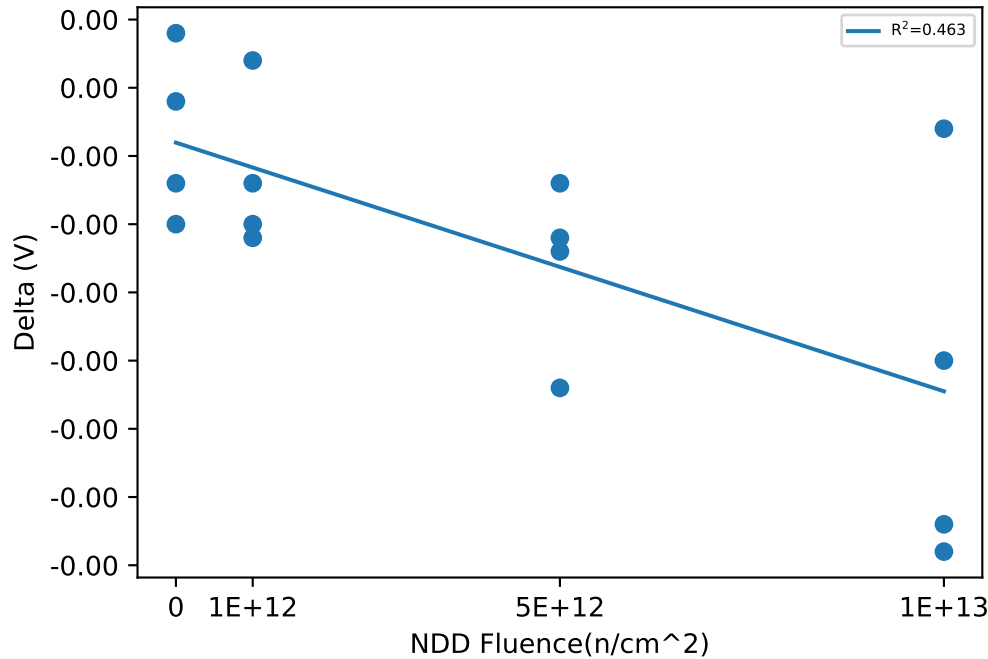
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.6	0.599	-0.001
229	5e+12	NDD	0.608	0.6068	-0.0012
260	1e+13	NDD	0.6129	0.6109	-0.002
301	1e+12	NDD	0.6035	0.6028	-0.0007
362	5e+12	NDD	0.6078	0.6056	-0.0022
365	1e+13	NDD	0.6062	0.6028	-0.0034
439	1e+12	NDD	0.6092	0.6094	0.0002
514	5e+12	NDD	0.6023	0.6012	-0.0011
577	1e+13	NDD	0.595	0.5947	-0.0003
634	1e+12	NDD	0.6133	0.6122	-0.0011
635	5e+12	NDD	0.6067	0.606	-0.0007
713	1e+13	NDD	0.6129	0.6097	-0.0032
732	0	CORRELATION	0.6072	0.6065	-0.0007
742	0	CORRELATION	0.608	0.6084	0.0004
879	0	CORRELATION	0.6164	0.6163	-0.0001
880	0	CORRELATION	0.6078	0.6068	-0.001

NDD vs Post - Pre Exposure Delta

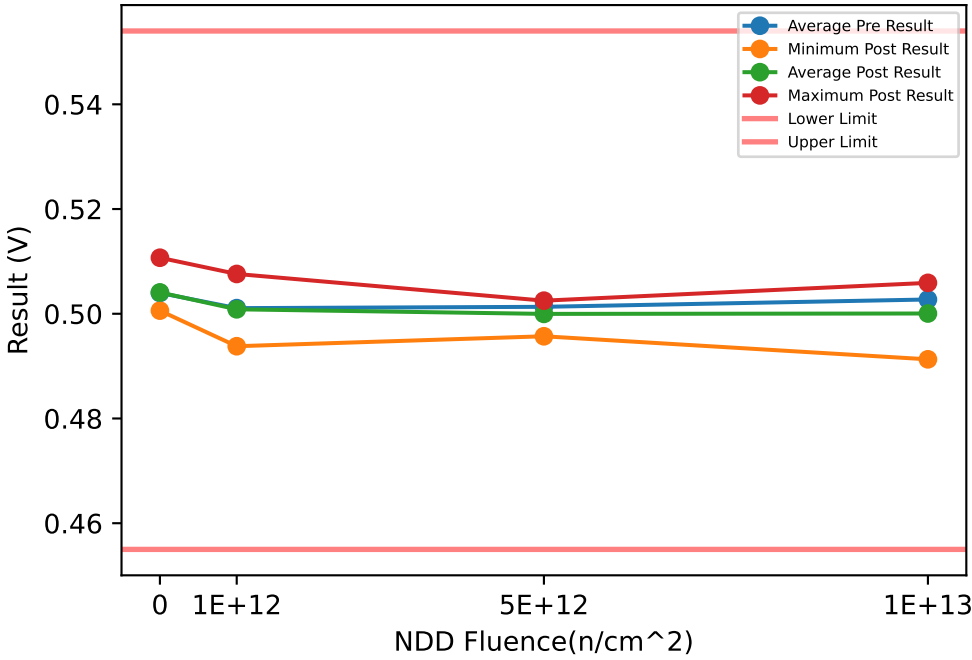


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6072	0.60985	0.6164	0.0043799	0.6065	0.6095	0.6163	0.0046094	-0.001	-0.00035	0.0004	0.0006245
1e+12	0.6	0.6065	0.6133	0.0059099	0.599	0.60585	0.6122	0.0060319	-0.0011	-0.00065	0.0002	0.00059161
5e+12	0.6023	0.6062	0.608	0.0026621	0.6012	0.6049	0.6068	0.0025166	-0.0022	-0.0013	-0.0007	0.0006377
1e+13	0.595	0.60675	0.6129	0.0084461	0.5947	0.60452	0.6109	0.0074594	-0.0034	-0.002225	-0.0003	0.0014245

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

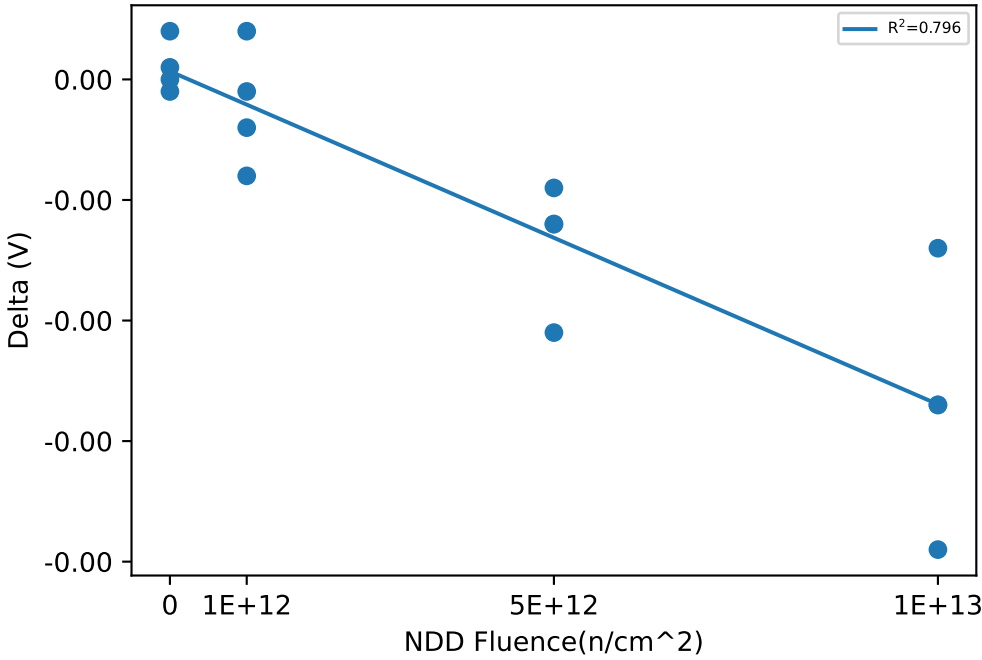
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4939	0.4938	-0.0001
229	5e+12	NDD	0.5037	0.5025	-0.0012
260	1e+13	NDD	0.5086	0.5059	-0.0027
301	1e+12	NDD	0.4981	0.4985	0.0004
362	5e+12	NDD	0.5027	0.5006	-0.0021
365	1e+13	NDD	0.5015	0.4988	-0.0027
439	1e+12	NDD	0.5039	0.5035	-0.0004
514	5e+12	NDD	0.4969	0.4957	-0.0012
577	1e+13	NDD	0.4927	0.4913	-0.0014
634	1e+12	NDD	0.5084	0.5076	-0.0008
635	5e+12	NDD	0.502	0.5011	-0.0009
713	1e+13	NDD	0.5081	0.5042	-0.0039
732	0	CORRELATION	0.5002	0.5006	0.0004
742	0	CORRELATION	0.5031	0.5031	0
879	0	CORRELATION	0.5106	0.5107	0.0001
880	0	CORRELATION	0.502	0.5019	-0.0001

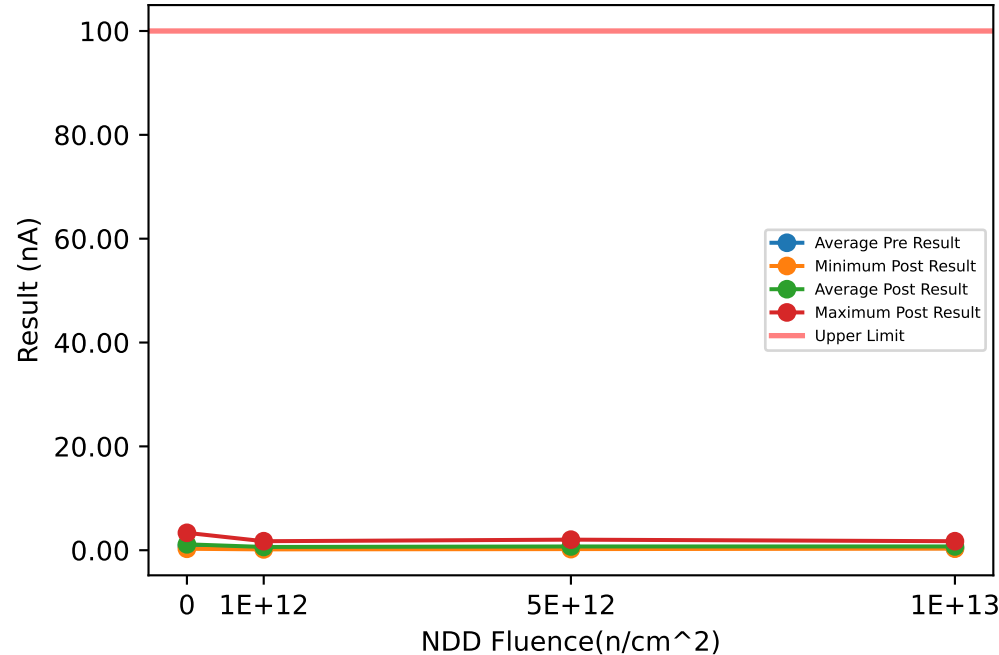
NDD vs Post - Pre Exposure Delta



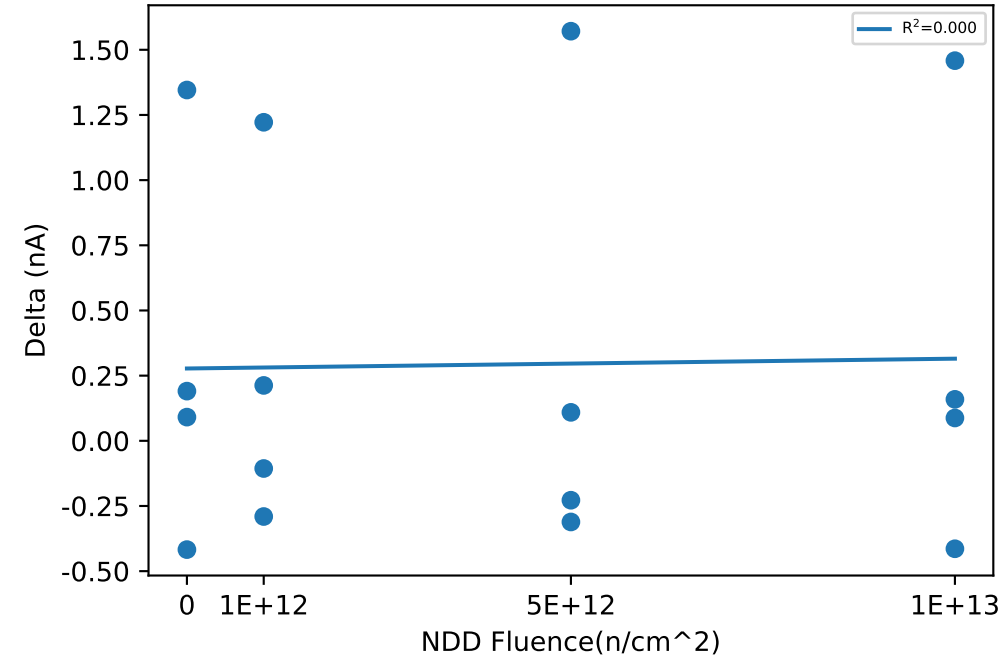
Test Statistics (V)

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	0.5002	0.50398	0.5106	0.0045756	0.5006	0.50408	0.5107	0.0045331	-0.0001	0.0001	0.0004	0.00021602
1e+12	0.4939	0.50107	0.5084	0.0063762	0.4938	0.50085	0.5076	0.0059947	-0.0008	-0.000225	0.0004	0.0005058
5e+12	0.4969	0.50133	0.5037	0.0030314	0.4957	0.49998	0.5025	0.0029613	-0.0021	-0.00135	-0.0009	0.00051962
1e+13	0.4927	0.50272	0.5086	0.0074254	0.4913	0.50005	0.5059	0.0065719	-0.0039	-0.002675	-0.0014	0.001021

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

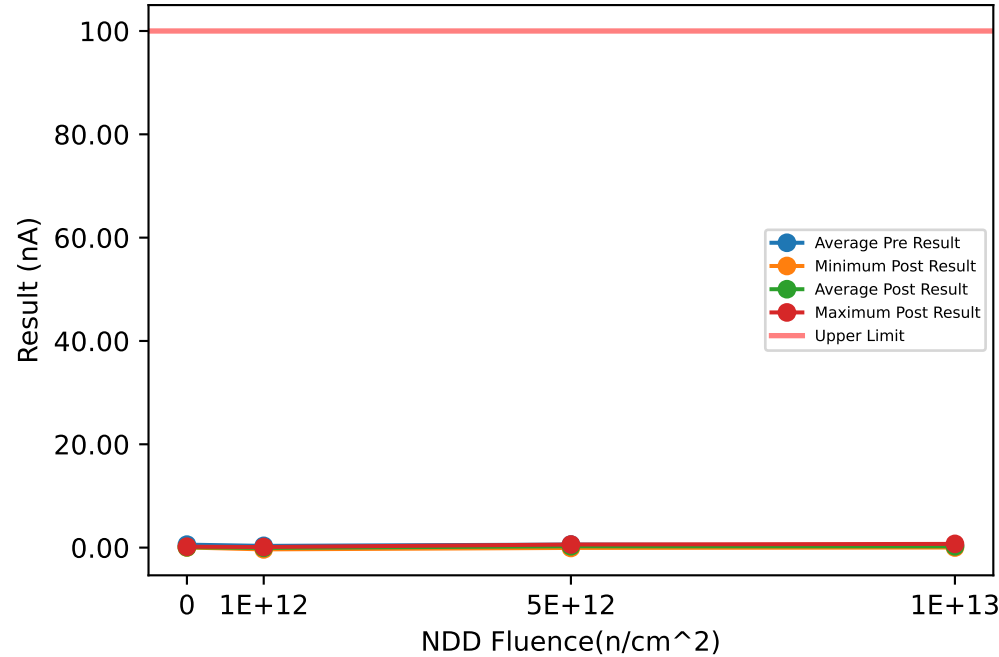
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.2152	0.4277	0.2125
229	5e+12	NDD	0.2623	0.3715	0.1092
260	1e+13	NDD	0.3622	0.5213	0.1591
301	1e+12	NDD	0.5143	1.7362	1.2219
362	5e+12	NDD	0.4647	2.036	1.5713
365	1e+13	NDD	0.2779	1.7362	1.4583
439	1e+12	NDD	0.4746	0.1842	-0.2904
514	5e+12	NDD	0.586	0.2747	-0.3113
577	1e+13	NDD	0.2152	0.3028	0.0876
634	1e+12	NDD	0.2654	0.1592	-0.1062
635	5e+12	NDD	0.4433	0.2154	-0.2279
713	1e+13	NDD	0.7668	0.3527	-0.4141
732	0	CORRELATION	0.1996	0.3902	0.1906
742	0	CORRELATION	2.0049	3.3506	1.3457
879	0	CORRELATION	0.6951	0.2778	-0.4173
880	0	CORRELATION	0.4429	0.5338	0.0909

Test Statistics (nA)

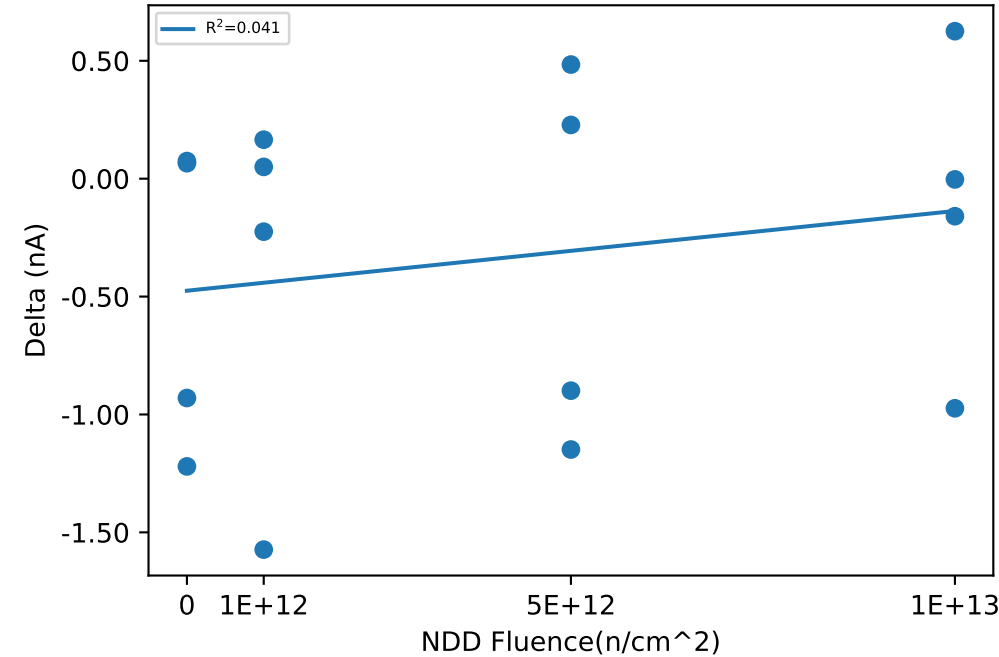
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1996	0.83563	2.0049	0.80534	0.2778	1.1381	3.3506	1.4787	-0.4173	0.30247	1.3457	0.74469
1e+12	0.2152	0.36738	0.5143	0.14904	0.1592	0.62682	1.7362	0.74943	-0.2904	0.25945	1.2219	0.67443
5e+12	0.2623	0.43907	0.586	0.13356	0.2154	0.7244	2.036	0.87676	-0.3113	0.28532	1.5713	0.87638
1e+13	0.2152	0.40553	0.7668	0.24827	0.3028	0.72825	1.7362	0.67844	-0.4141	0.32272	1.4583	0.79885

Device Test: 15.16 LEAK|POWERED/ILIM/14////@ILIM_LKG_CURR

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



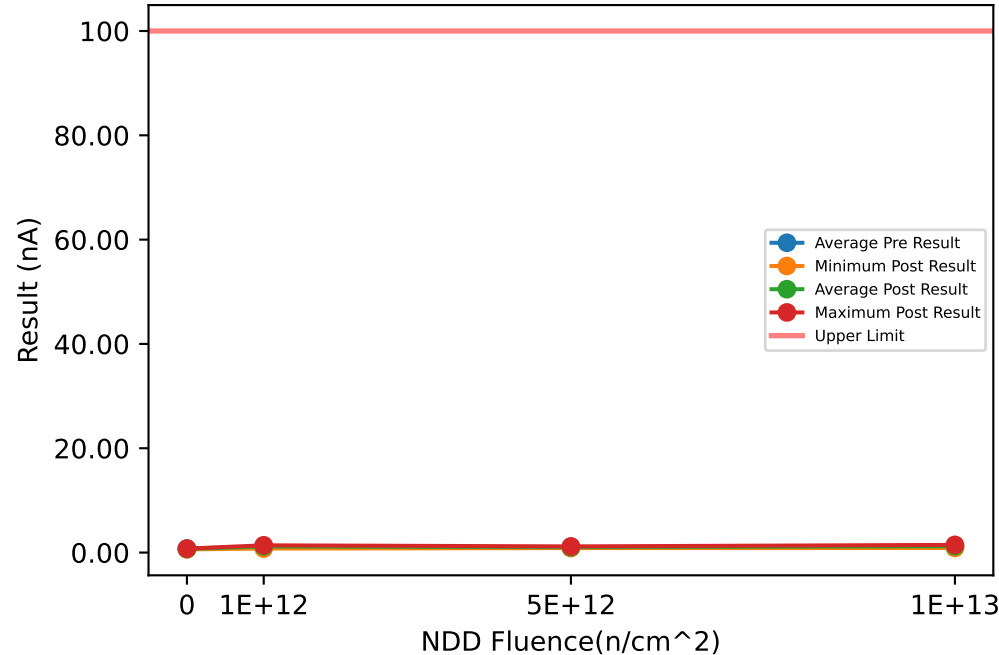
Test Results (Upper Limit = 100.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	-0.0375	0.0125	0.05
229	5e+12	NDD	0.98	0.081	-0.899
260	1e+13	NDD	0.0937	0.7192	0.6255
301	1e+12	NDD	1.2266	-0.3465	-1.5731
362	5e+12	NDD	0.3684	0.5963	0.2279
365	1e+13	NDD	1.0612	0.0874	-0.9738
439	1e+12	NDD	-0.0499	0.1155	0.1654
514	5e+12	NDD	1.0831	-0.0656	-1.1487
577	1e+13	NDD	0.1655	0.1624	-0.0031
634	1e+12	NDD	0.2091	-0.0156	-0.2247
635	5e+12	NDD	-0.0656	0.4184	0.484
713	1e+13	NDD	0.1748	0.0156	-0.1592
732	0	CORRELATION	-0.0468	0.0187	0.0655
742	0	CORRELATION	1.1049	0.1748	-0.9301
879	0	CORRELATION	1.2703	0.05	-1.2203
880	0	CORRELATION	-0.0281	0.0467	0.0748

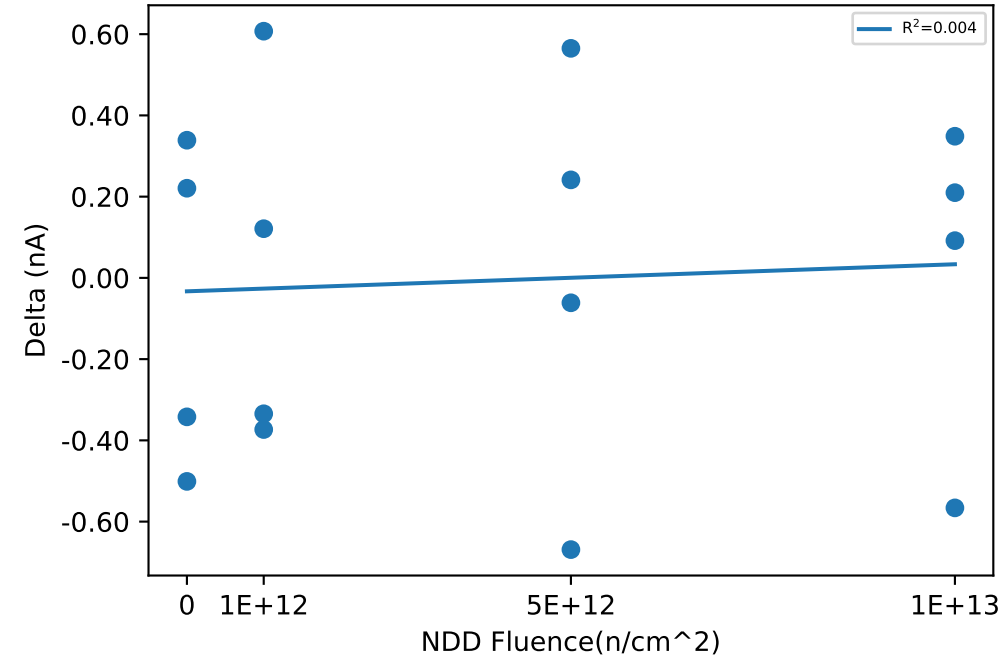
Test Statistics (nA)

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	-0.0468	0.57508	1.2703	0.71054	0.0187	0.07255	0.1748	0.069598	-1.2203	-0.50252	0.0748	0.67181
1e+12	-0.0499	0.33707	1.2266	0.60489	-0.3465	-0.058525	0.1155	0.20008	-1.5731	-0.3956	0.1654	0.80187
5e+12	-0.0656	0.59147	1.0831	0.5398	-0.0656	0.25753	0.5963	0.30344	-1.1487	-0.33395	0.484	0.8099
1e+13	0.0937	0.3738	1.0612	0.4597	0.0156	0.24615	0.7192	0.32101	-0.9738	-0.12765	0.6255	0.65821

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (nA))

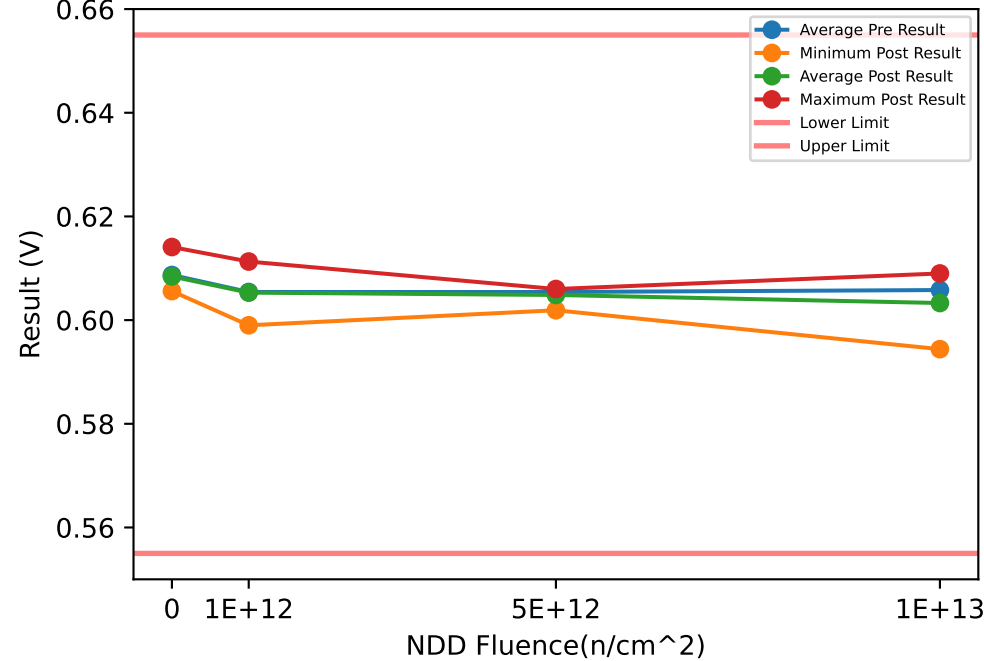
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.1385	0.7652	-0.3733
229	5e+12	NDD	0.611	0.8523	0.2413
260	1e+13	NDD	1.3615	1.4532	0.0917
301	1e+12	NDD	0.5804	1.1877	0.6073
362	5e+12	NDD	1.5475	0.8786	-0.6689
365	1e+13	NDD	0.5299	0.8786	0.3487
439	1e+12	NDD	1.221	1.3421	0.1211
514	5e+12	NDD	0.6147	1.1798	0.5651
577	1e+13	NDD	1.2634	1.4732	0.2098
634	1e+12	NDD	1.7284	1.3939	-0.3345
635	5e+12	NDD	1.246	1.1847	-0.0613
713	1e+13	NDD	1.5885	1.0223	-0.5662
732	0	CORRELATION	1.1229	0.6219	-0.501
742	0	CORRELATION	0.3863	0.607	0.2207
879	0	CORRELATION	0.4243	0.7632	0.3389
880	0	CORRELATION	1.0948	0.7527	-0.3421

Test Statistics (nA)

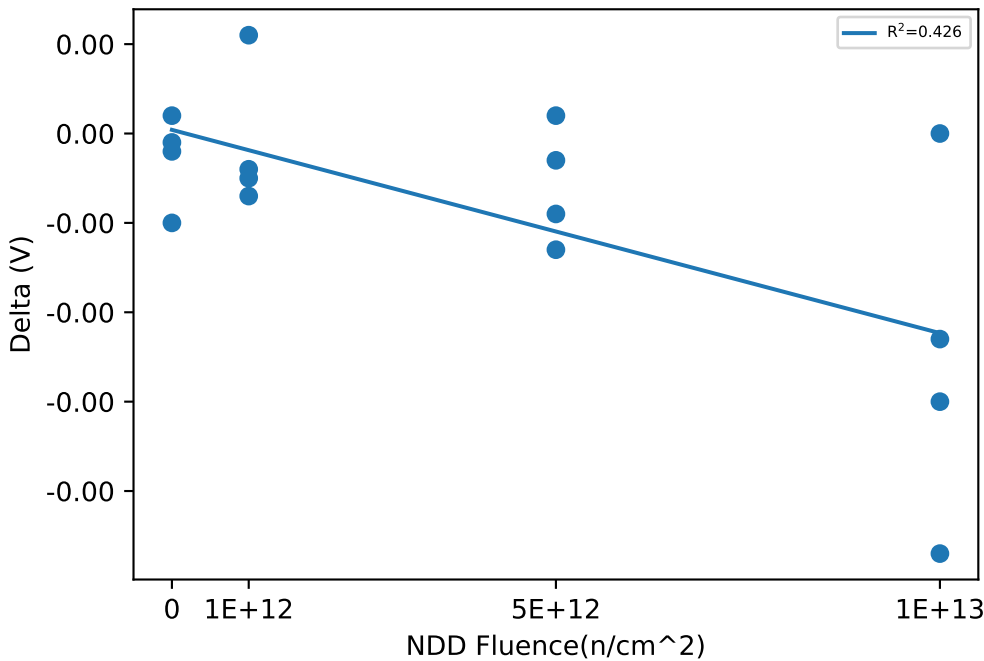
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.3863	0.75707	1.1229	0.40665	0.607	0.6862	0.7632	0.083183	-0.501	-0.070875	0.3389	0.41292
1e+12	0.5804	1.1671	1.7284	0.47011	0.7652	1.1722	1.3939	0.28514	-0.3733	0.00515	0.6073	0.45993
5e+12	0.611	1.0048	1.5475	0.46903	0.8523	1.0238	1.1847	0.18323	-0.6689	0.01905	0.5651	0.52513
1e+13	0.5299	1.1858	1.5885	0.45799	0.8786	1.2068	1.4732	0.3019	-0.5662	0.021	0.3487	0.40531

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

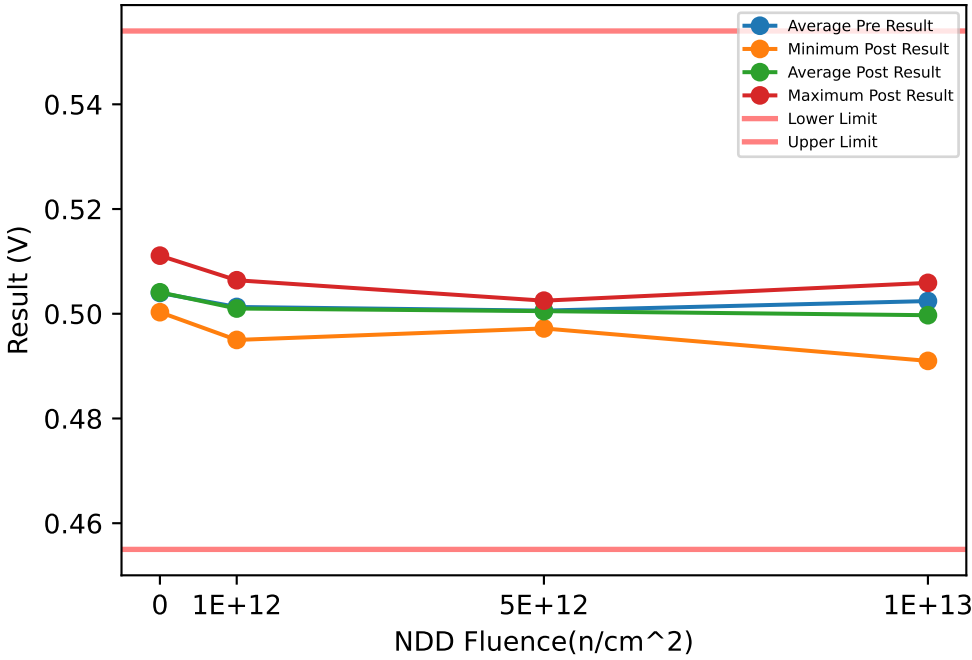
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.5994	0.599	-0.0004
229	5e+12	NDD	0.6068	0.6059	-0.0009
260	1e+13	NDD	0.6113	0.609	-0.0023
301	1e+12	NDD	0.6029	0.6022	-0.0007
362	5e+12	NDD	0.6069	0.6056	-0.0013
365	1e+13	NDD	0.6046	0.6016	-0.003
439	1e+12	NDD	0.6092	0.6087	-0.0005
514	5e+12	NDD	0.6017	0.6019	0.0002
577	1e+13	NDD	0.5944	0.5944	0
634	1e+12	NDD	0.6102	0.6113	0.0011
635	5e+12	NDD	0.6063	0.606	-0.0003
713	1e+13	NDD	0.6129	0.6082	-0.0047
732	0	CORRELATION	0.6066	0.6056	-0.001
742	0	CORRELATION	0.6074	0.6072	-0.0002
879	0	CORRELATION	0.6139	0.6141	0.0002
880	0	CORRELATION	0.6069	0.6068	-0.0001

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	0.6066	0.6087	0.6139	0.0034823	0.6056	0.60842	0.6141	0.0038439	-0.001	-0.000275	0.0002	0.00051235
1e+12	0.5994	0.60542	0.6102	0.0051552	0.599	0.6053	0.6113	0.0056821	-0.0007	-0.000125	0.0011	0.00082614
5e+12	0.6017	0.60542	0.6069	0.0024972	0.6019	0.60485	0.606	0.001974	-0.0013	-0.000575	0.0002	0.00066018
1e+13	0.5944	0.6058	0.6129	0.0084075	0.5944	0.6033	0.609	0.0067971	-0.0047	-0.0025	0	0.0019476

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

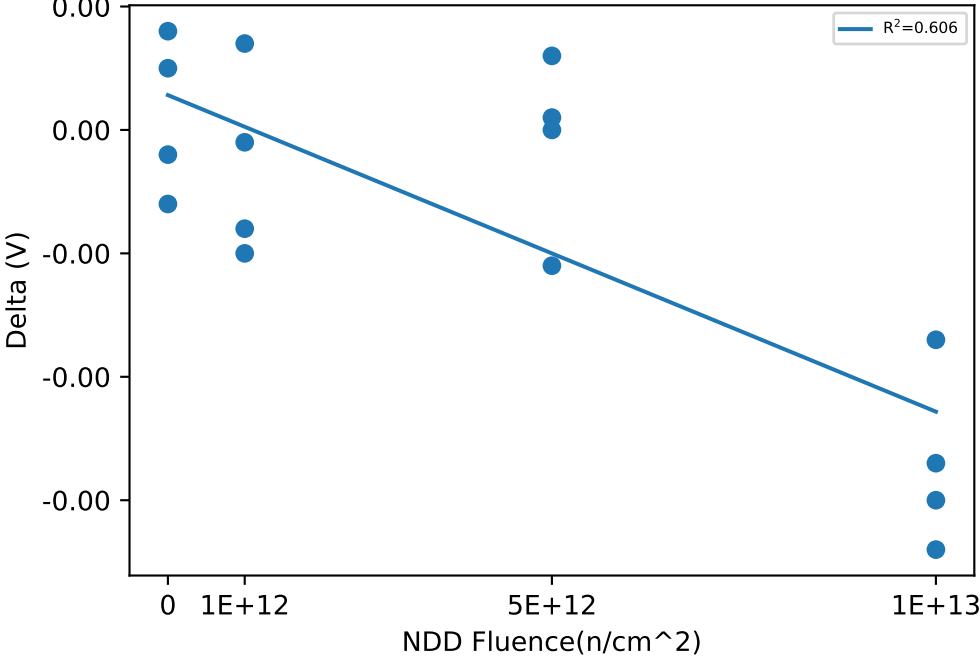
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4958	0.495	-0.0008
229	5e+12	NDD	0.5024	0.5025	0.0001
260	1e+13	NDD	0.5086	0.5059	-0.0027
301	1e+12	NDD	0.4981	0.4988	0.0007
362	5e+12	NDD	0.5017	0.5006	-0.0011
365	1e+13	NDD	0.5012	0.4978	-0.0034
439	1e+12	NDD	0.5039	0.5038	-0.0001
514	5e+12	NDD	0.4966	0.4972	0.0006
577	1e+13	NDD	0.4927	0.491	-0.0017
634	1e+12	NDD	0.5074	0.5064	-0.001
635	5e+12	NDD	0.5017	0.5017	0
713	1e+13	NDD	0.5072	0.5042	-0.003
732	0	CORRELATION	0.5005	0.5003	-0.0002
742	0	CORRELATION	0.5034	0.5028	-0.0006
879	0	CORRELATION	0.5106	0.5111	0.0005
880	0	CORRELATION	0.5014	0.5022	0.0008

NDD vs Post - Pre Exposure Delta

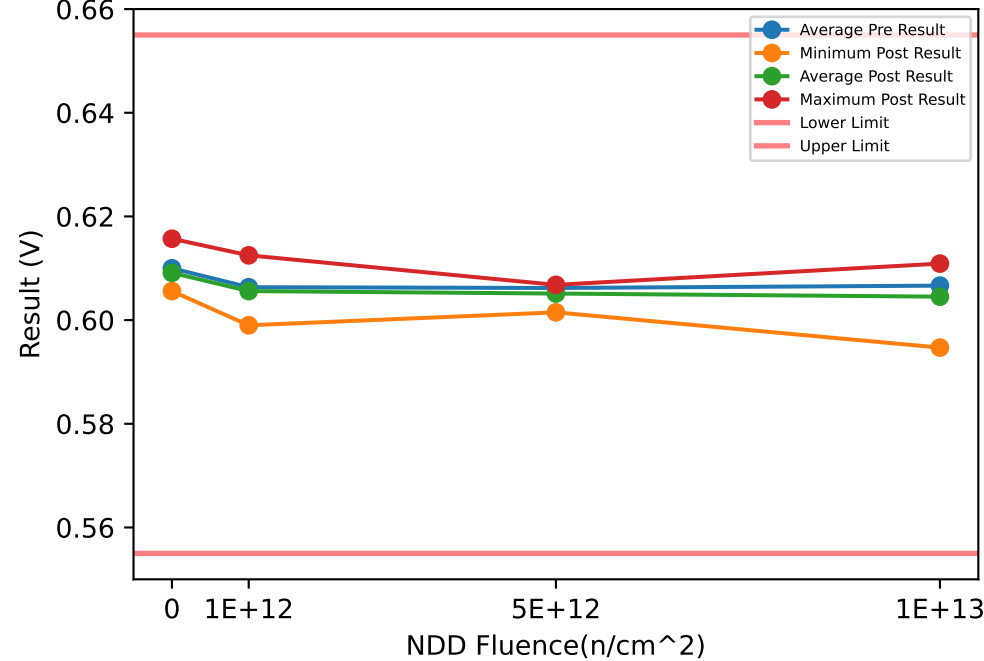


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.5005	0.50397	0.5106	0.0045799	0.5003	0.5041	0.5111	0.0047868	-0.0006	0.000125	0.0008	0.00063966
1e+12	0.4958	0.5013	0.5074	0.005306	0.495	0.501	0.5064	0.0050938	-0.001	-0.0003	0.0007	0.00077028
5e+12	0.4966	0.5006	0.5024	0.002687	0.4972	0.5005	0.5025	0.0023338	-0.0011	-0.0001	0.0006	0.00071647
1e+13	0.4927	0.50243	0.5086	0.0072344	0.491	0.49972	0.5059	0.006782	-0.0034	-0.0027	-0.0017	0.00072572

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

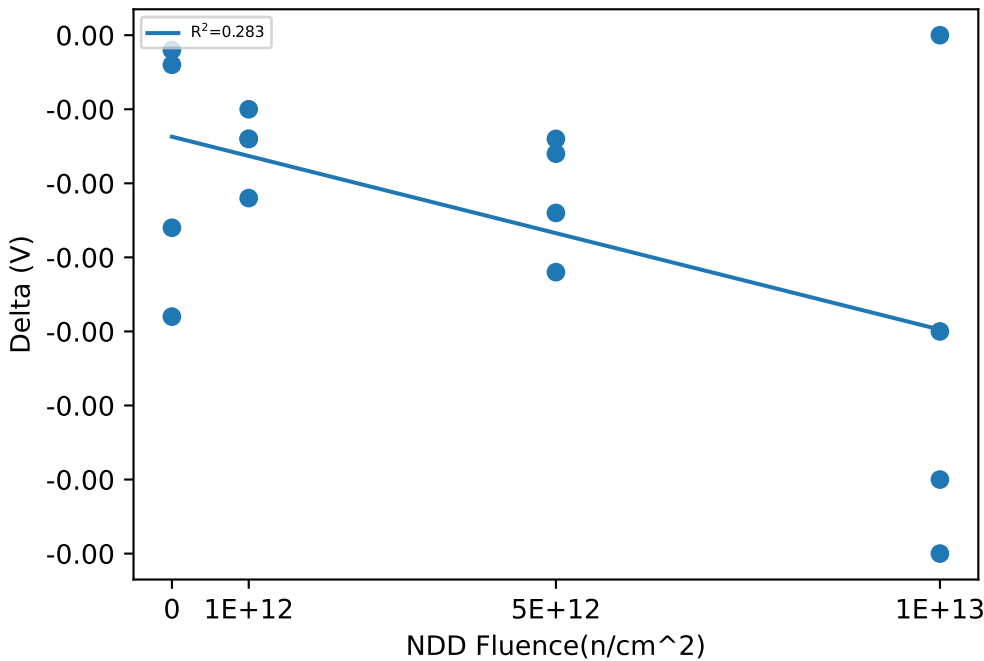
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.5997	0.599	-0.0007
229	5e+12	NDD	0.608	0.6068	-0.0012
260	1e+13	NDD	0.6129	0.6109	-0.002
301	1e+12	NDD	0.6032	0.6025	-0.0007
362	5e+12	NDD	0.6075	0.6059	-0.0016
365	1e+13	NDD	0.6058	0.6028	-0.003
439	1e+12	NDD	0.6095	0.6084	-0.0011
514	5e+12	NDD	0.6023	0.6015	-0.0008
577	1e+13	NDD	0.5947	0.5947	0
634	1e+12	NDD	0.613	0.6125	-0.0005
635	5e+12	NDD	0.607	0.6063	-0.0007
713	1e+13	NDD	0.6132	0.6097	-0.0035
732	0	CORRELATION	0.6075	0.6056	-0.0019
742	0	CORRELATION	0.6083	0.6081	-0.0002
879	0	CORRELATION	0.617	0.6157	-0.0013
880	0	CORRELATION	0.6072	0.6071	-0.0001

NDD vs Post - Pre Exposure Delta

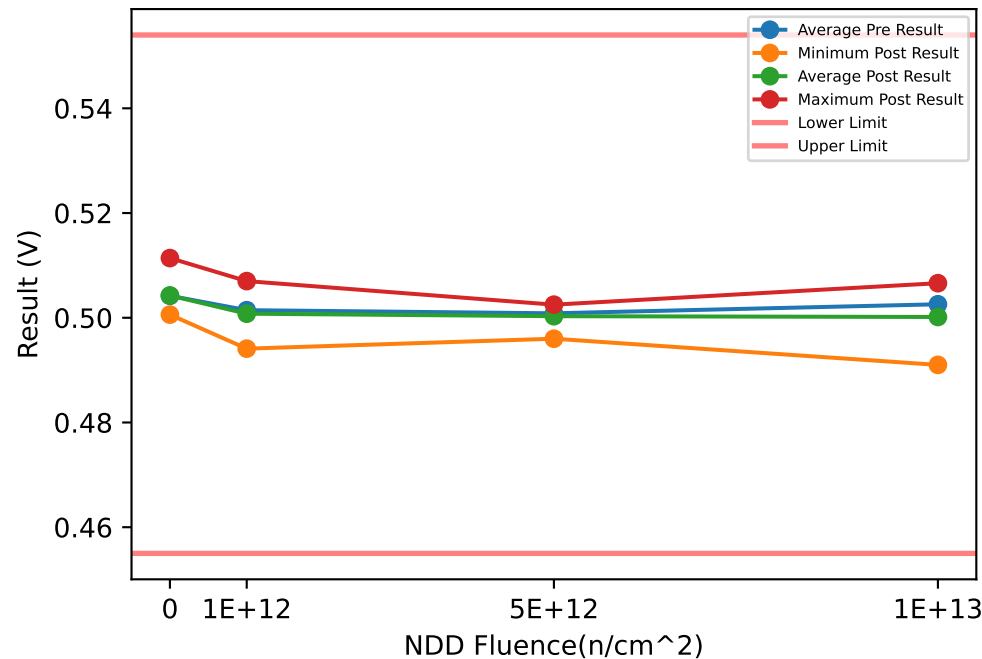


Test Statistics (V)

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	0.6072	0.61	0.617	0.0046897	0.6056	0.60913	0.6157	0.0045021	-0.0019	-0.000875	-0.0001	0.00087321
1e+12	0.5997	0.60635	0.613	0.0060081	0.599	0.6056	0.6125	0.0060172	-0.0011	-0.00075	-0.0005	0.00025166
5e+12	0.6023	0.6062	0.608	0.0026319	0.6015	0.60513	0.6068	0.0024446	-0.0016	-0.001075	-0.0007	0.0004113
1e+13	0.5947	0.60665	0.6132	0.0086697	0.5947	0.60452	0.6109	0.0074594	-0.0035	-0.002125	0	0.0015478

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

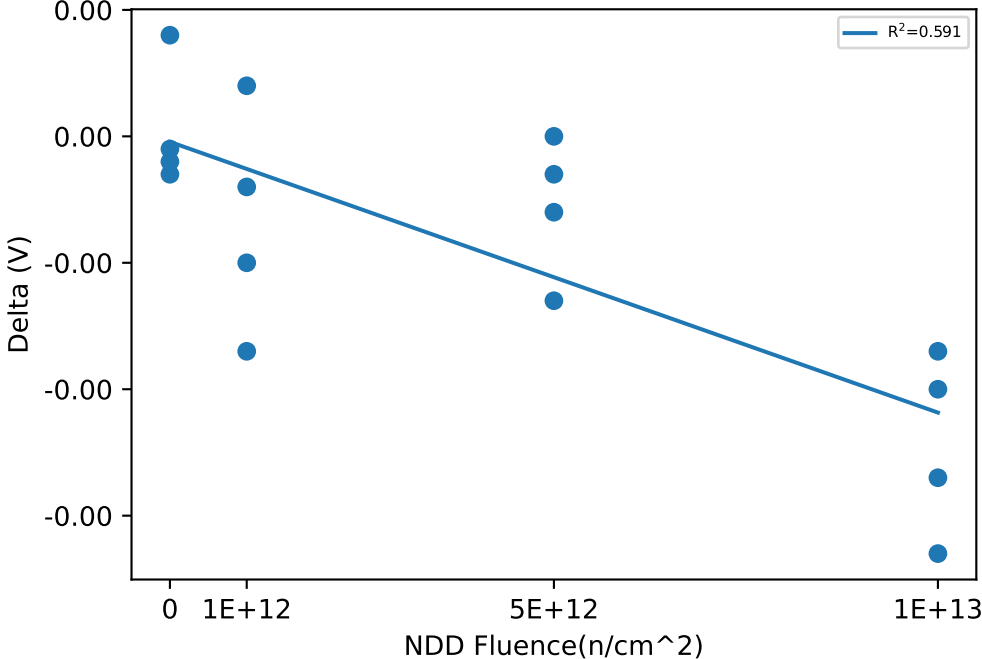
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4945	0.4941	-0.0004
229	5e+12	NDD	0.5031	0.5025	-0.0006
260	1e+13	NDD	0.5086	0.5066	-0.002
301	1e+12	NDD	0.4981	0.4985	0.0004
362	5e+12	NDD	0.5023	0.501	-0.0013
365	1e+13	NDD	0.5012	0.4985	-0.0027
439	1e+12	NDD	0.5045	0.5035	-0.001
514	5e+12	NDD	0.4963	0.496	-0.0003
577	1e+13	NDD	0.4927	0.491	-0.0017
634	1e+12	NDD	0.5087	0.507	-0.0017
635	5e+12	NDD	0.5017	0.5017	0
713	1e+13	NDD	0.5078	0.5045	-0.0033
732	0	CORRELATION	0.5008	0.5006	-0.0002
742	0	CORRELATION	0.5031	0.5028	-0.0003
879	0	CORRELATION	0.5106	0.5114	0.0008
880	0	CORRELATION	0.5023	0.5022	-0.0001

NDD vs Post - Pre Exposure Delta

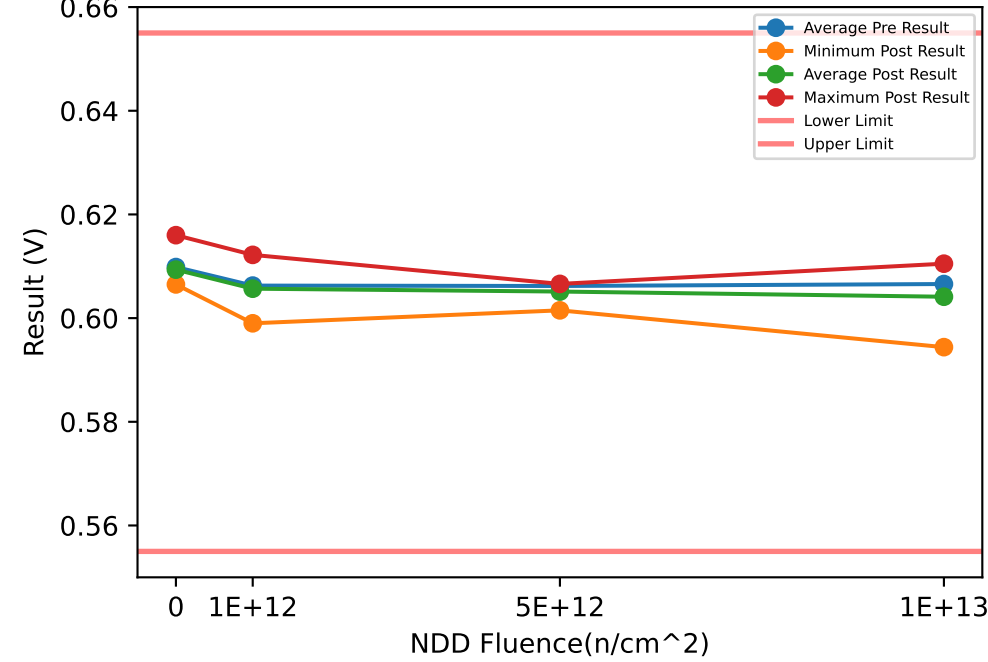


Test Statistics (V)

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	0.5008	0.5042	0.5106	0.0043719	0.5006	0.50425	0.5114	0.0048563	-0.0003	5e-05	0.0008	0.00050662
1e+12	0.4945	0.50145	0.5087	0.0063611	0.4941	0.50077	0.507	0.0056541	-0.0017	-0.000675	0.0004	0.00089209
5e+12	0.4963	0.50085	0.5031	0.0030871	0.496	0.5003	0.5025	0.0029314	-0.0013	-0.00055	0	0.00055678
1e+13	0.4927	0.50257	0.5086	0.0073713	0.491	0.50015	0.5066	0.0069993	-0.0033	-0.002425	-0.0017	0.00071822

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

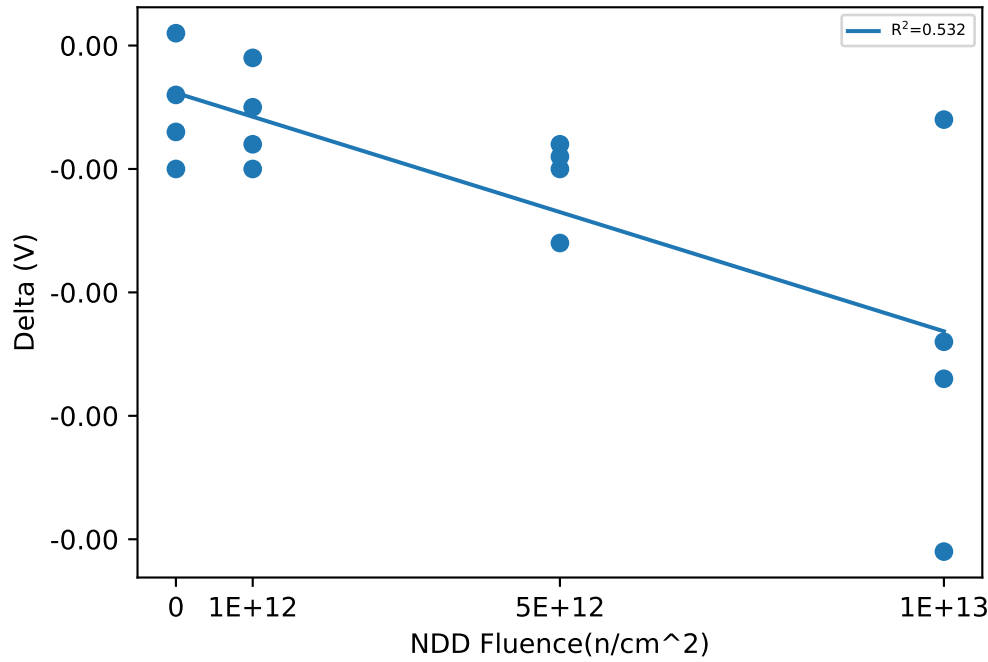
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.6	0.599	-0.001
229	5e+12	NDD	0.6074	0.6065	-0.0009
260	1e+13	NDD	0.6129	0.6105	-0.0024
301	1e+12	NDD	0.6032	0.6031	-0.0001
362	5e+12	NDD	0.6075	0.6059	-0.0016
365	1e+13	NDD	0.6055	0.6028	-0.0027
439	1e+12	NDD	0.6092	0.6084	-0.0008
514	5e+12	NDD	0.6023	0.6015	-0.0008
577	1e+13	NDD	0.595	0.5944	-0.0006
634	1e+12	NDD	0.6127	0.6122	-0.0005
635	5e+12	NDD	0.6076	0.6066	-0.001
713	1e+13	NDD	0.6129	0.6088	-0.0041
732	0	CORRELATION	0.6069	0.6065	-0.0004
742	0	CORRELATION	0.608	0.6081	0.0001
879	0	CORRELATION	0.6167	0.616	-0.0007
880	0	CORRELATION	0.6078	0.6068	-0.001

NDD vs Post - Pre Exposure Delta

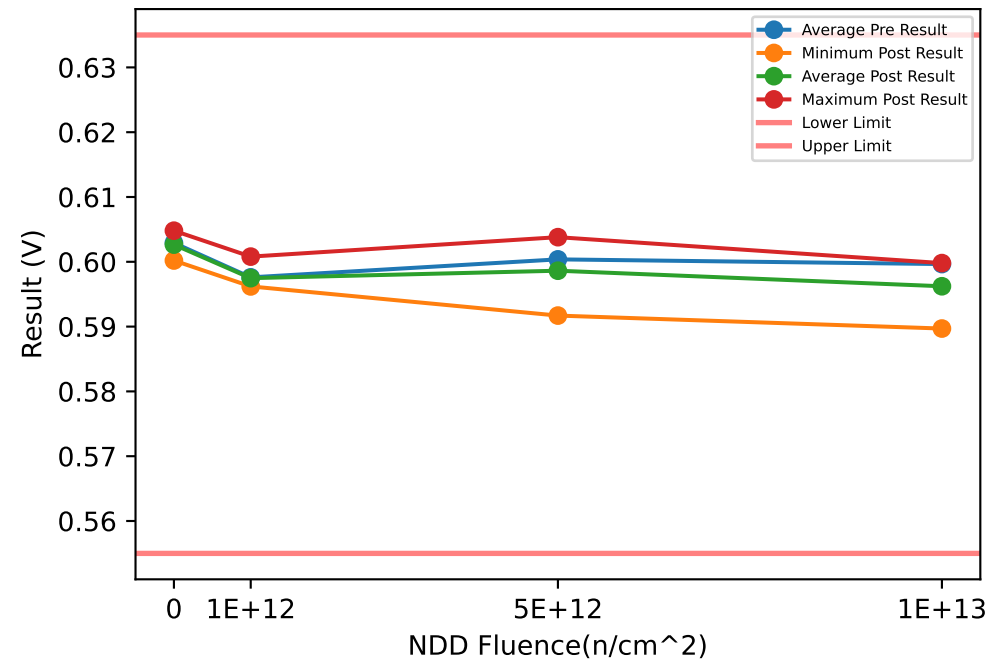


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6069	0.60985	0.6167	0.0045917	0.6065	0.60935	0.616	0.0044874	-0.001	-0.0005	0.0001	0.00046904
1e+12	0.6	0.60628	0.6127	0.0057349	0.599	0.60567	0.6122	0.0058077	-0.001	-0.0006	-0.0001	0.00039158
5e+12	0.6023	0.6062	0.6076	0.0026013	0.6015	0.60513	0.6066	0.0024364	-0.0016	-0.001075	-0.0008	0.0003594
1e+13	0.595	0.60657	0.6129	0.0084685	0.5944	0.60413	0.6105	0.0072762	-0.0041	-0.00245	-0.0006	0.0014387

Device Test: 16.1 THRESHOLD|RISE/FAULT/4.5/////@FAULT_VTH_RISING

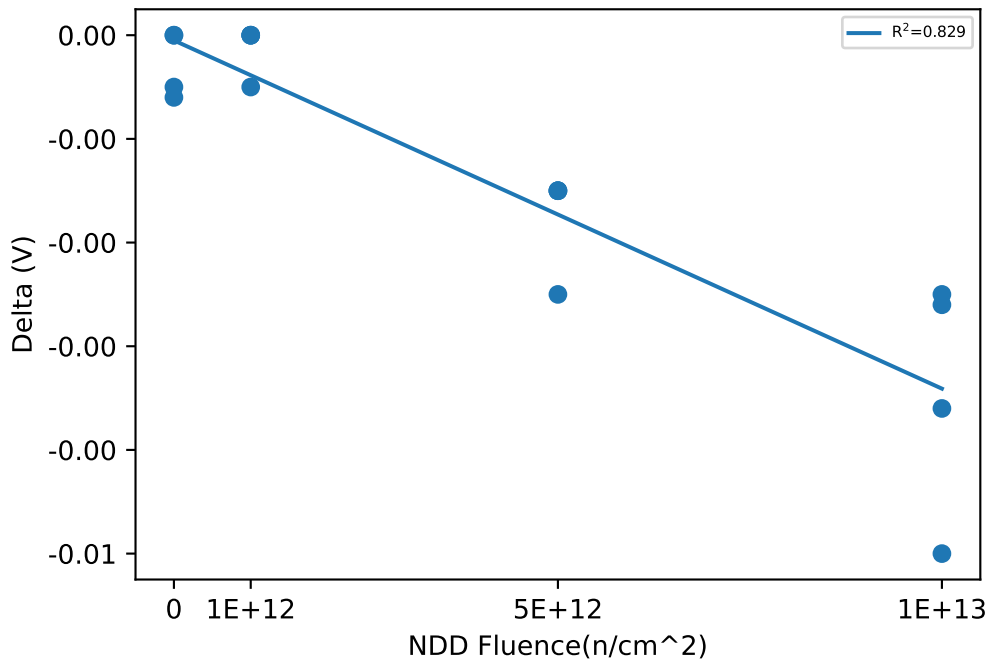
NDD vs Result Stats



Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.5962	0.5962	0
229	5e+12	NDD	0.6053	0.6038	-0.0015
260	1e+13	NDD	0.6008	0.5982	-0.0026
301	1e+12	NDD	0.5962	0.5962	0
362	5e+12	NDD	0.6053	0.6038	-0.0015
365	1e+13	NDD	0.6048	0.5998	-0.005
439	1e+12	NDD	0.5972	0.5967	-0.0005
514	5e+12	NDD	0.5977	0.5952	-0.0025
577	1e+13	NDD	0.5922	0.5897	-0.0025
634	1e+12	NDD	0.6008	0.6008	0
635	5e+12	NDD	0.5932	0.5917	-0.0015
713	1e+13	NDD	0.6008	0.5972	-0.0036
732	0	CORRELATION	0.6048	0.6048	0
742	0	CORRELATION	0.6008	0.6002	-0.0006
879	0	CORRELATION	0.6033	0.6028	-0.0005
880	0	CORRELATION	0.6028	0.6028	0

NDD vs Post - Pre Exposure Delta

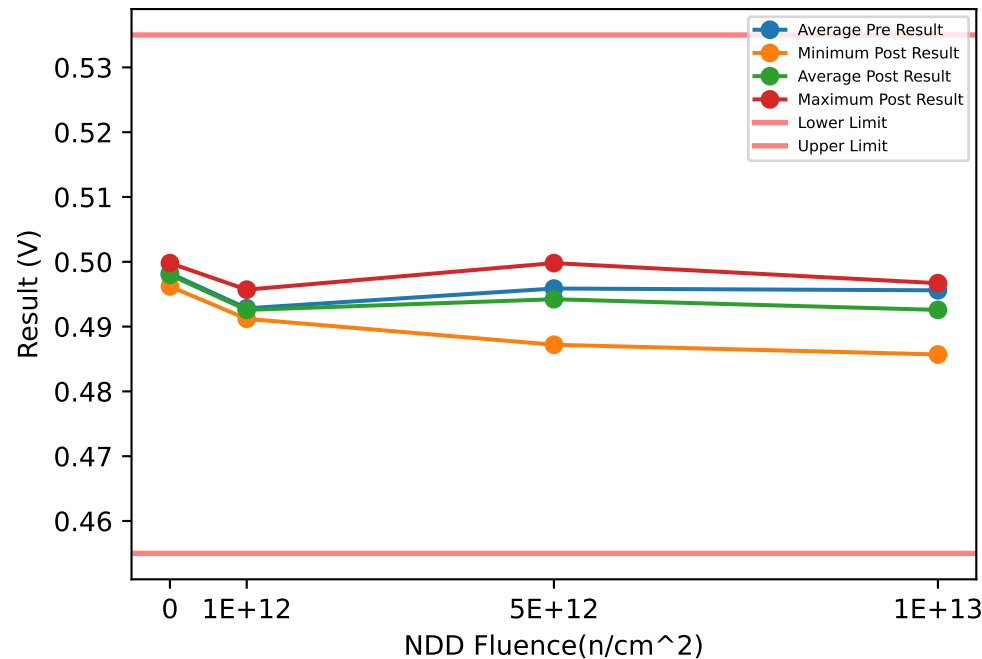


Test Statistics (V)

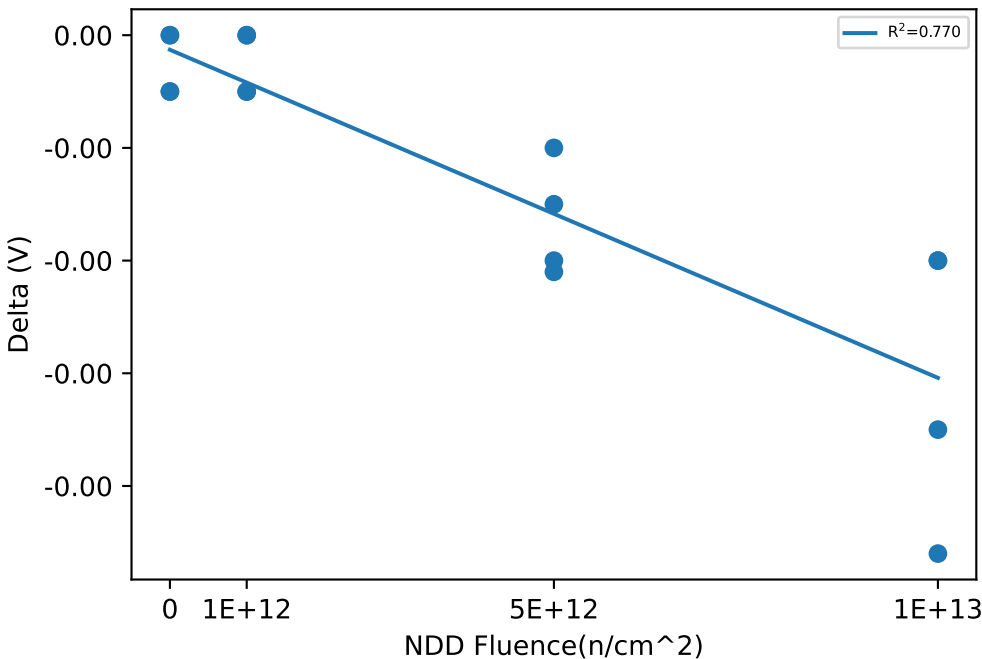
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.6008	0.60292	0.6048	0.001652	0.6002	0.60265	0.6048	0.0018859	-0.0006	-0.000275	0	0.00032016
1e+12	0.5962	0.5976	0.6008	0.0021848	0.5962	0.59747	0.6008	0.0022292	-0.0005	-0.000125	0	0.00025
5e+12	0.5932	0.60037	0.6053	0.0059763	0.5917	0.59862	0.6038	0.006144	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5922	0.59965	0.6048	0.0053126	0.5897	0.59623	0.5998	0.0044799	-0.005	-0.003425	-0.0025	0.0011615

Device Test: 16.10 THRESHOLD|FALL/FAULT/12////@FAULT_VTH_FALLING

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



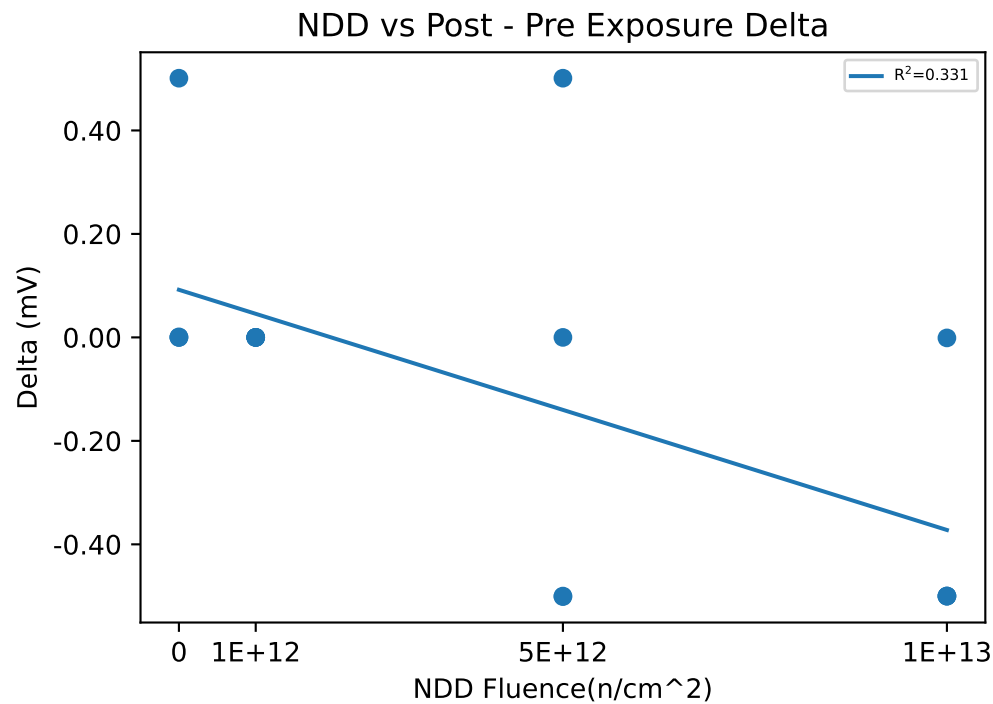
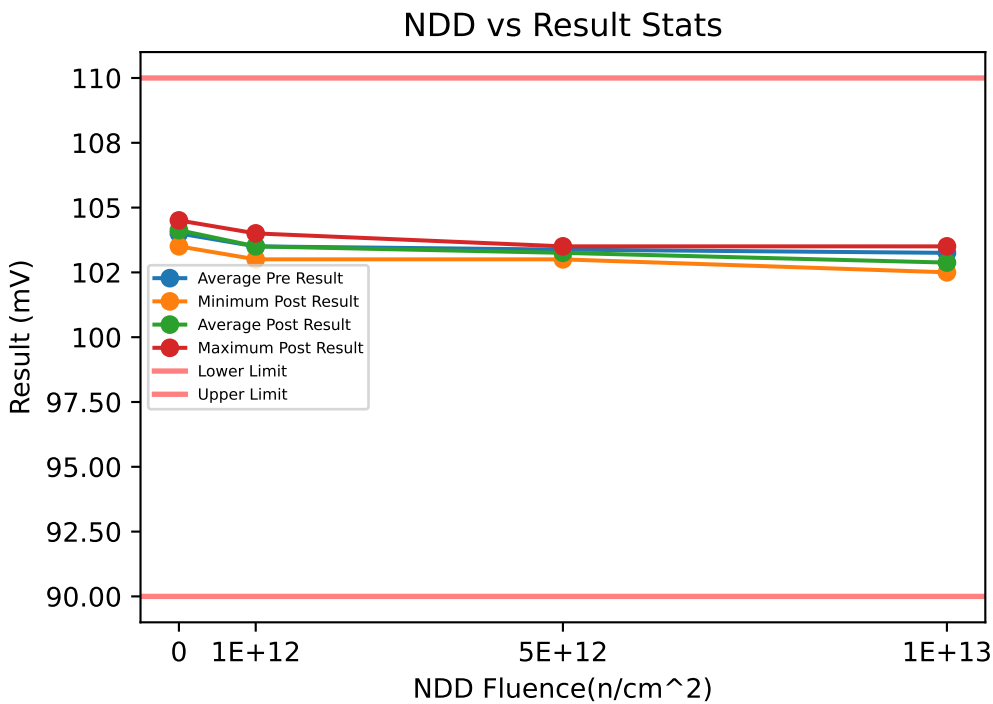
Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4917	0.4912	-0.0005
229	5e+12	NDD	0.5013	0.4992	-0.0021
260	1e+13	NDD	0.4972	0.4952	-0.002
301	1e+12	NDD	0.4922	0.4922	0
362	5e+12	NDD	0.5008	0.4998	-0.001
365	1e+13	NDD	0.5013	0.4967	-0.0046
439	1e+12	NDD	0.4912	0.4912	0
514	5e+12	NDD	0.4927	0.4907	-0.002
577	1e+13	NDD	0.4877	0.4857	-0.002
634	1e+12	NDD	0.4962	0.4957	-0.0005
635	5e+12	NDD	0.4887	0.4872	-0.0015
713	1e+13	NDD	0.4962	0.4927	-0.0035
732	0	CORRELATION	0.4998	0.4998	0
742	0	CORRELATION	0.4967	0.4962	-0.0005
879	0	CORRELATION	0.4982	0.4977	-0.0005
880	0	CORRELATION	0.4982	0.4982	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	0.4967	0.49822	0.4998	0.0012659	0.4962	0.49798	0.4998	0.0014841	-0.0005	-0.00025	0	0.00028868
1e+12	0.4912	0.49283	0.4962	0.0022867	0.4912	0.49257	0.4957	0.002136	-0.0005	-0.00025	0	0.00028868
5e+12	0.4887	0.49588	0.5013	0.0061981	0.4872	0.49423	0.4998	0.0062612	-0.0021	-0.00165	-0.001	0.00050662
1e+13	0.4877	0.4956	0.5013	0.0057102	0.4857	0.49257	0.4967	0.0048713	-0.0046	-0.003025	-0.002	0.0012659

Device Test: 16.11 THRESHOLD|HYST/FAULT/12////@FAULT_VTH_HYST



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

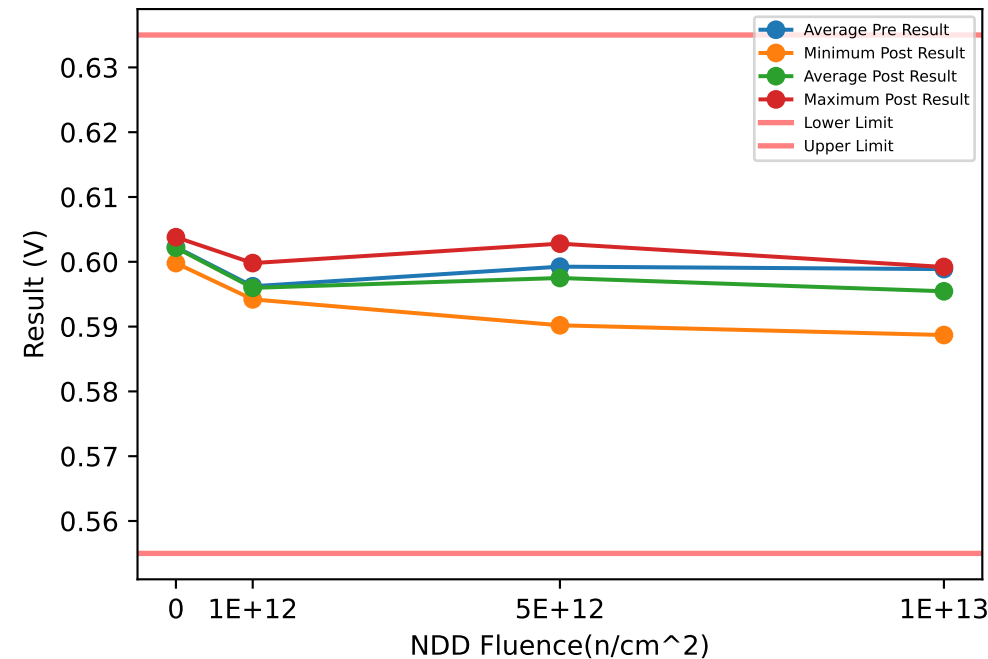
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	103.5	103.5	0
229	5e+12	NDD	103	103.5	0.501
260	1e+13	NDD	103	102.5	-0.5
301	1e+12	NDD	103	103	0
362	5e+12	NDD	103.5	103	-0.501
365	1e+13	NDD	103	102.5	-0.5
439	1e+12	NDD	103.5	103.5	0
514	5e+12	NDD	104	103.5	-0.5
577	1e+13	NDD	103.5	103	-0.5
634	1e+12	NDD	104	104	0
635	5e+12	NDD	103	103	0
713	1e+13	NDD	103.5	103.5	-0.001
732	0	CORRELATION	104	104	0
742	0	CORRELATION	103.5	103.5	0.001
879	0	CORRELATION	104	104.51	0.501
880	0	CORRELATION	104.5	104.5	0

Test Statistics (mV)

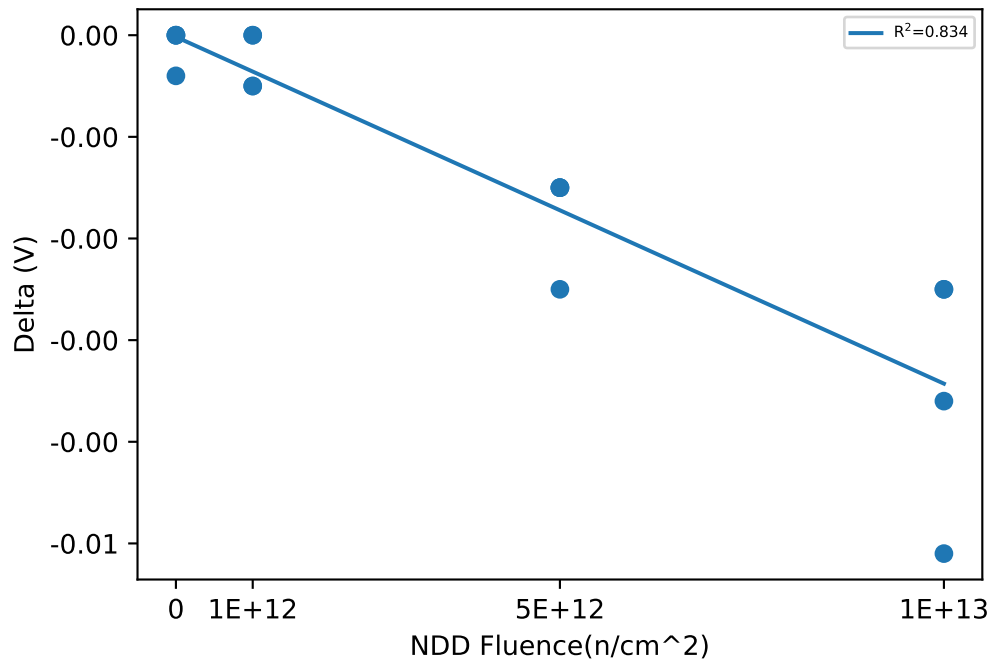
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	103.5	104	104.5	0.40866	103.5	104.13	104.51	0.47897	0	0.1255	0.501	0.25033
1e+12	103	103.5	104	0.40866	103	103.5	104	0.40866	0	0	0	0
5e+12	103	103.38	104	0.47941	103	103.25	103.5	0.28925	-0.501	-0.125	0.501	0.47941
1e+13	103	103.25	103.5	0.28954	102.5	102.88	103.5	0.47924	-0.5	-0.37525	-0.001	0.2495

Device Test: 16.13 THRESHOLD|RISE/FAULT/14////@FAULT_VTH_RISING

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



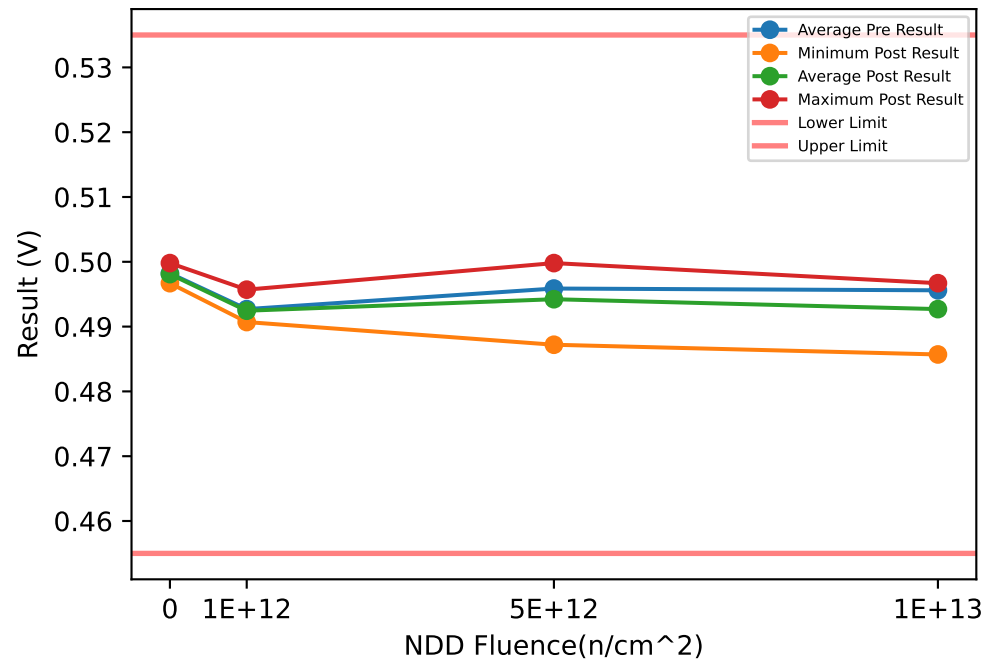
Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.5952	0.5947	-0.0005
229	5e+12	NDD	0.6043	0.6028	-0.0015
260	1e+13	NDD	0.6002	0.5977	-0.0025
301	1e+12	NDD	0.5952	0.5952	0
362	5e+12	NDD	0.6043	0.6028	-0.0015
365	1e+13	NDD	0.6043	0.5992	-0.0051
439	1e+12	NDD	0.5947	0.5942	-0.0005
514	5e+12	NDD	0.5967	0.5942	-0.0025
577	1e+13	NDD	0.5912	0.5887	-0.0025
634	1e+12	NDD	0.5998	0.5998	0
635	5e+12	NDD	0.5917	0.5902	-0.0015
713	1e+13	NDD	0.5998	0.5962	-0.0036
732	0	CORRELATION	0.6038	0.6038	0
742	0	CORRELATION	0.6002	0.5998	-0.0004
879	0	CORRELATION	0.6023	0.6023	0
880	0	CORRELATION	0.6028	0.6028	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	0.6002	0.60228	0.6038	0.0015174	0.5998	0.60218	0.6038	0.0017017	-0.0004	-0.0001	0	0.0002
1e+12	0.5947	0.59623	0.5998	0.002395	0.5942	0.59597	0.5998	0.0025825	-0.0005	-0.00025	0	0.00028868
5e+12	0.5917	0.59925	0.6043	0.0061782	0.5902	0.5975	0.6028	0.006334	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5912	0.59887	0.6043	0.005506	0.5887	0.59545	0.5992	0.0046637	-0.0051	-0.003425	-0.0025	0.0012312

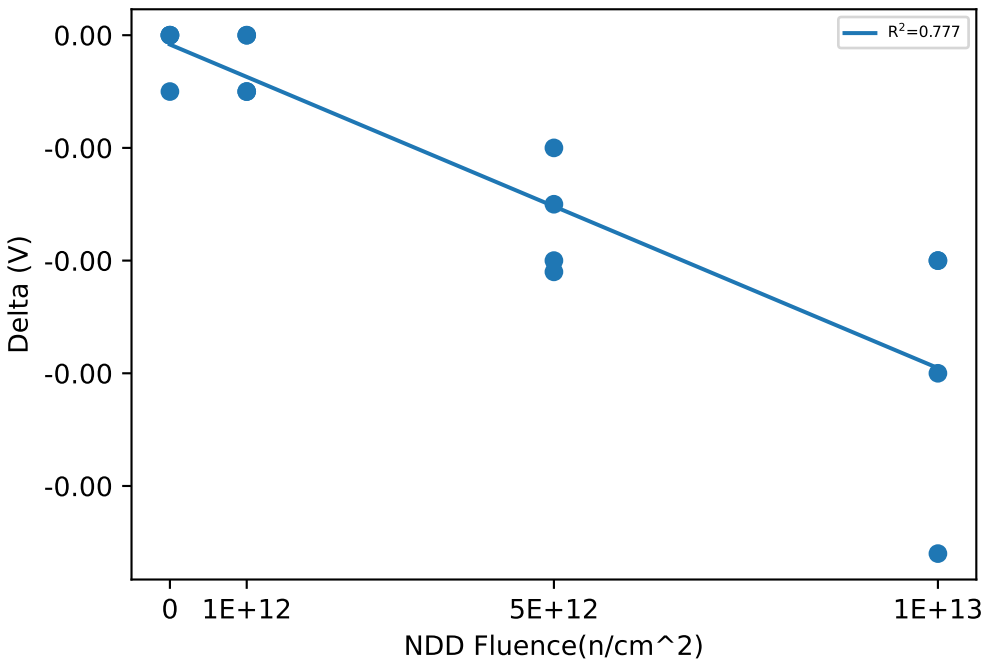
NDD vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4917	0.4917	0
229	5e+12	NDD	0.5013	0.4992	-0.0021
260	1e+13	NDD	0.4972	0.4952	-0.002
301	1e+12	NDD	0.4917	0.4917	0
362	5e+12	NDD	0.5008	0.4998	-0.001
365	1e+13	NDD	0.5013	0.4967	-0.0046
439	1e+12	NDD	0.4912	0.4907	-0.0005
514	5e+12	NDD	0.4927	0.4907	-0.002
577	1e+13	NDD	0.4877	0.4857	-0.002
634	1e+12	NDD	0.4962	0.4957	-0.0005
635	5e+12	NDD	0.4887	0.4872	-0.0015
713	1e+13	NDD	0.4962	0.4932	-0.003
732	0	CORRELATION	0.4998	0.4998	0
742	0	CORRELATION	0.4967	0.4967	0
879	0	CORRELATION	0.4982	0.4977	-0.0005
880	0	CORRELATION	0.4982	0.4982	0

NDD vs Post - Pre Exposure Delta

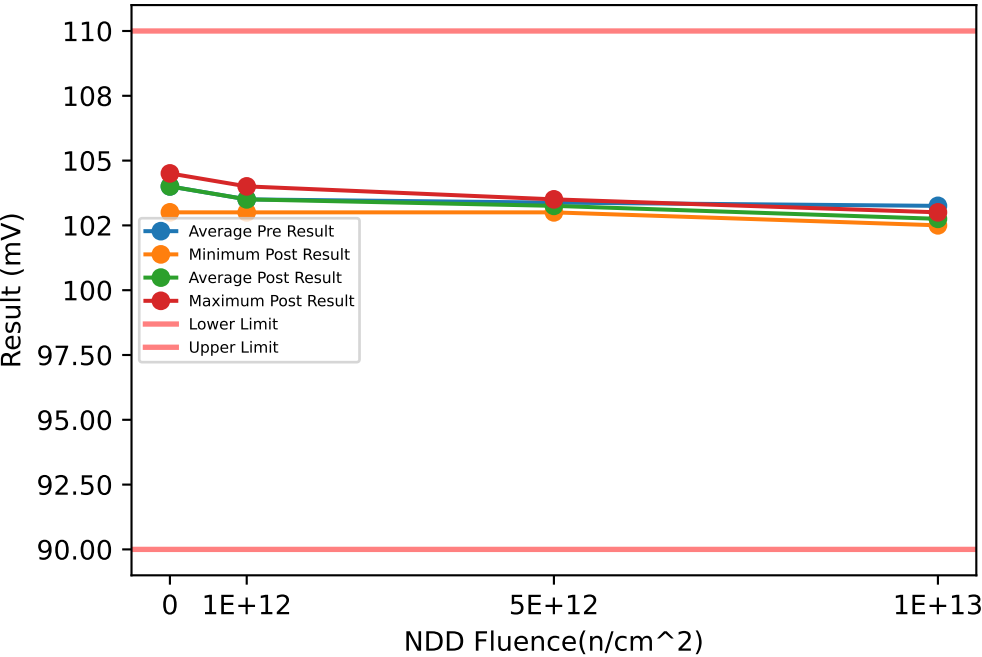


Test Statistics (V)

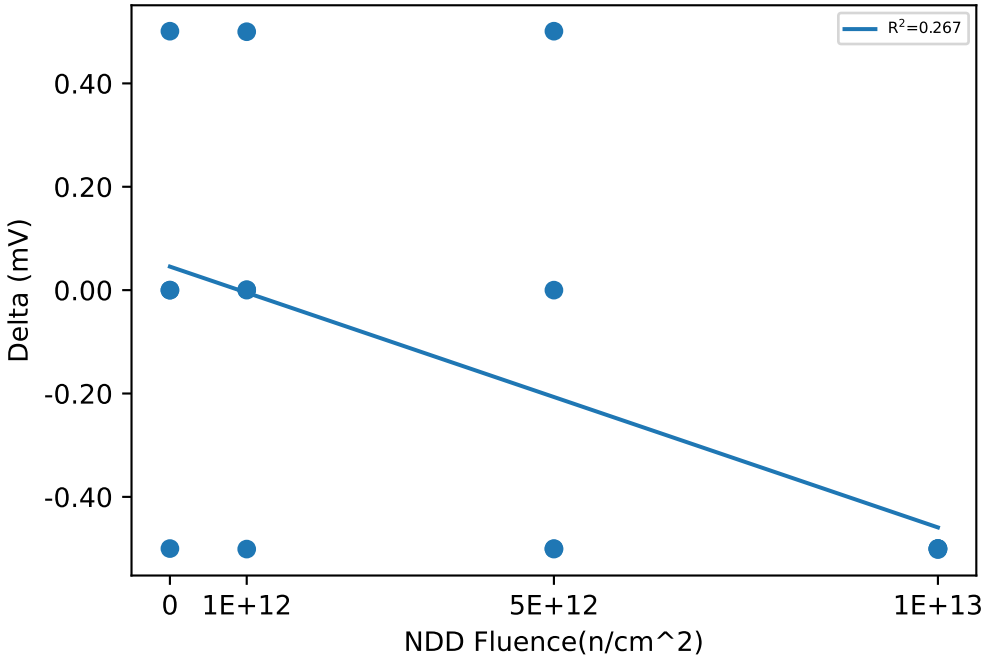
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4967	0.49822	0.4998	0.0012659	0.4967	0.4981	0.4998	0.0012936	-0.0005	-0.000125	0	0.00025
1e+12	0.4912	0.4927	0.4962	0.0023452	0.4907	0.49245	0.4957	0.0022174	-0.0005	-0.00025	0	0.00028868
5e+12	0.4887	0.49588	0.5013	0.0061981	0.4872	0.49423	0.4998	0.0062612	-0.0021	-0.00165	-0.001	0.00050662
1e+13	0.4877	0.4956	0.5013	0.0057102	0.4857	0.4927	0.4967	0.0048819	-0.0046	-0.0029	-0.002	0.0012275

Device Test: 16.15 THRESHOLD|HYST/FAULT/14////@FAULT_VTH_HYST

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

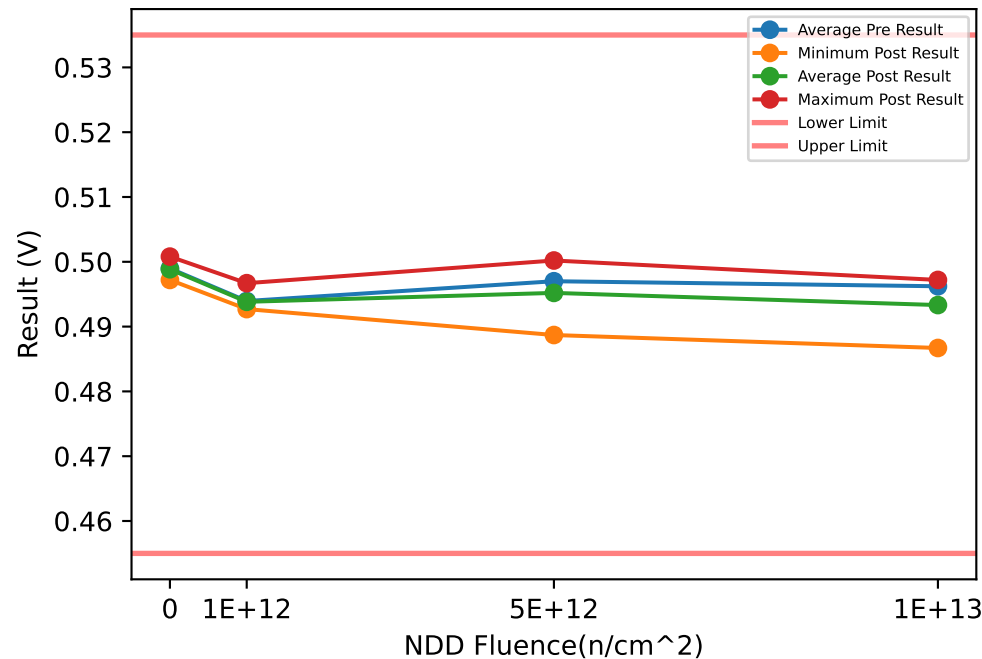
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	103.5	103	-0.501
229	5e+12	NDD	103	103.5	0.501
260	1e+13	NDD	103	102.5	-0.5
301	1e+12	NDD	103.5	103.5	0
362	5e+12	NDD	103.5	103	-0.501
365	1e+13	NDD	103	102.5	-0.5
439	1e+12	NDD	103.5	103.5	0.001
514	5e+12	NDD	104	103.5	-0.5
577	1e+13	NDD	103.5	103	-0.5
634	1e+12	NDD	103.5	104	0.5
635	5e+12	NDD	103	103	0
713	1e+13	NDD	103.5	103	-0.502
732	0	CORRELATION	104	104	0
742	0	CORRELATION	103.5	103	-0.5
879	0	CORRELATION	104	104.51	0.501
880	0	CORRELATION	104.5	104.5	0

Test Statistics (mV)

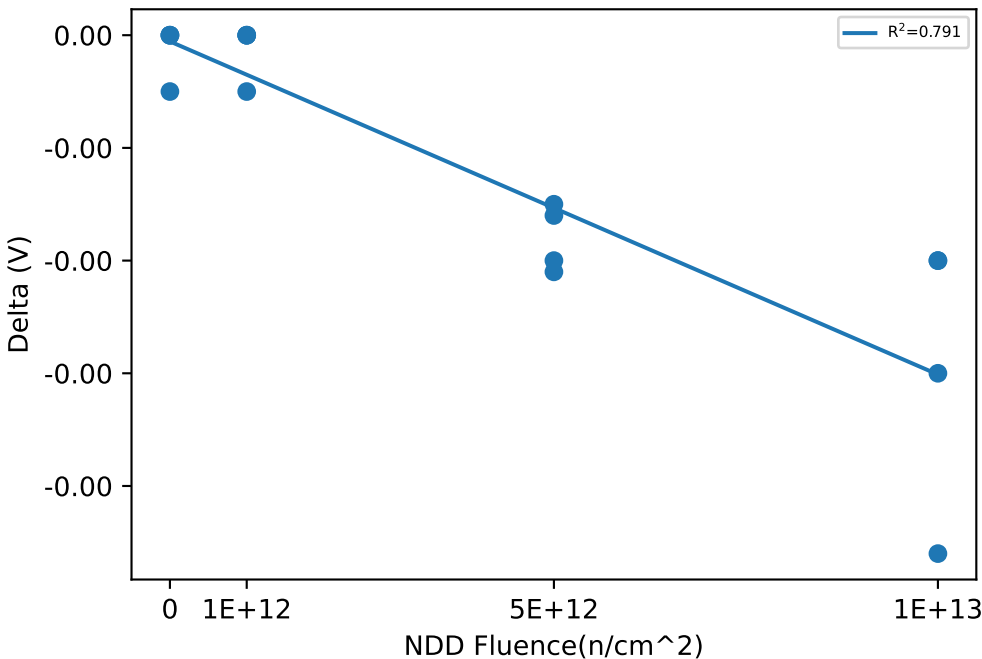
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	103.5	104	104.5	0.40866	103	104	104.51	0.70781	-0.5	0.00025	0.501	0.40866
1e+12	103.5	103.5	103.5	0.0005	103	103.5	104	0.40907	-0.501	-3.5527e-15	0.5	0.40866
5e+12	103	103.38	104	0.47941	103	103.25	103.5	0.28925	-0.501	-0.125	0.501	0.47941
1e+13	103	103.25	103.5	0.28954	102.5	102.75	103	0.28896	-0.502	-0.5005	-0.5	0.001

Device Test: 16.2 THRESHOLD|FALL/FAULT/4.5////@FAULT_VTH_FALLING

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



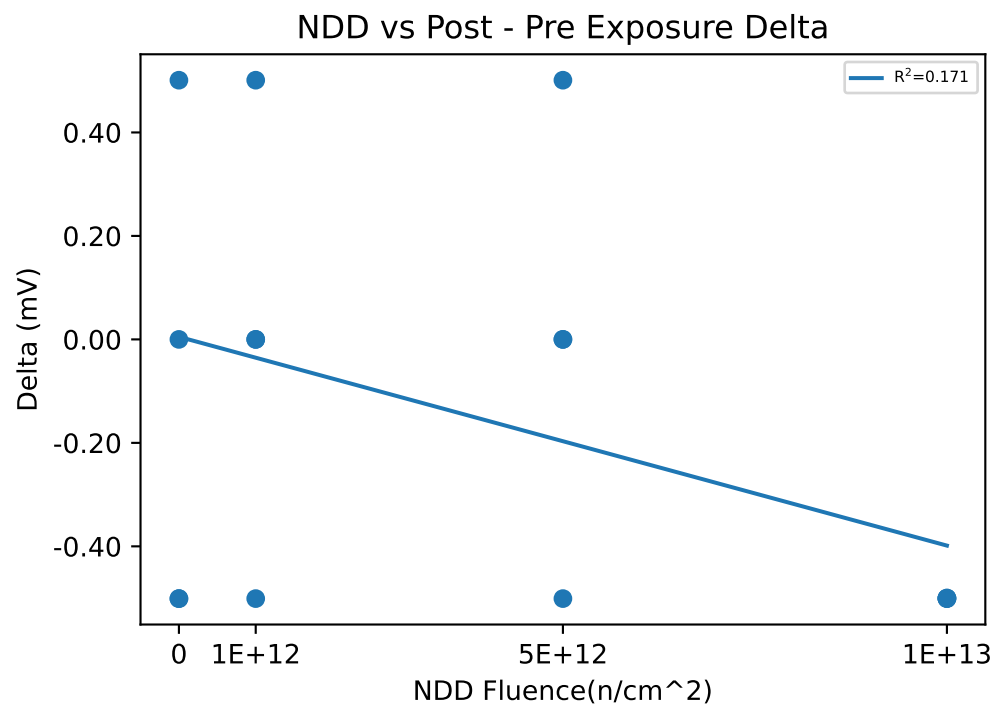
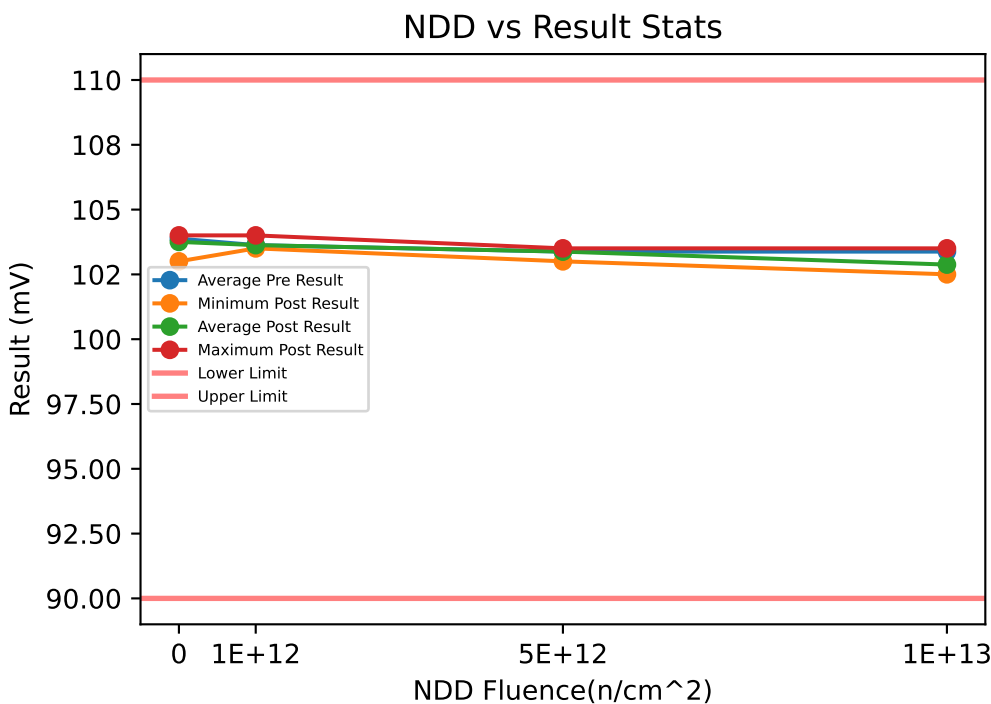
Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4932	0.4927	-0.0005
229	5e+12	NDD	0.5018	0.5002	-0.0016
260	1e+13	NDD	0.4977	0.4957	-0.002
301	1e+12	NDD	0.4927	0.4927	0
362	5e+12	NDD	0.5023	0.5002	-0.0021
365	1e+13	NDD	0.5018	0.4972	-0.0046
439	1e+12	NDD	0.4932	0.4932	0
514	5e+12	NDD	0.4937	0.4917	-0.002
577	1e+13	NDD	0.4887	0.4867	-0.002
634	1e+12	NDD	0.4967	0.4967	0
635	5e+12	NDD	0.4902	0.4887	-0.0015
713	1e+13	NDD	0.4967	0.4937	-0.003
732	0	CORRELATION	0.5013	0.5008	-0.0005
742	0	CORRELATION	0.4972	0.4972	0
879	0	CORRELATION	0.4987	0.4987	0
880	0	CORRELATION	0.4987	0.4987	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	0.4972	0.49897	0.5013	0.0017037	0.4972	0.49885	0.5008	0.0014799	-0.0005	-0.000125	0	0.00025
1e+12	0.4927	0.49395	0.4967	0.0018484	0.4927	0.49383	0.4967	0.0019311	-0.0005	-0.000125	0	0.00025
5e+12	0.4902	0.497	0.5023	0.0060072	0.4887	0.4952	0.5002	0.005902	-0.0021	-0.0018	-0.0015	0.00029439
1e+13	0.4887	0.49623	0.5018	0.0054805	0.4867	0.49333	0.4972	0.0046435	-0.0046	-0.0029	-0.002	0.0012275

Device Test: 16.3 THRESHOLD|HYST/FAULT/4.5/////@FAULT_VTH_HYST



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

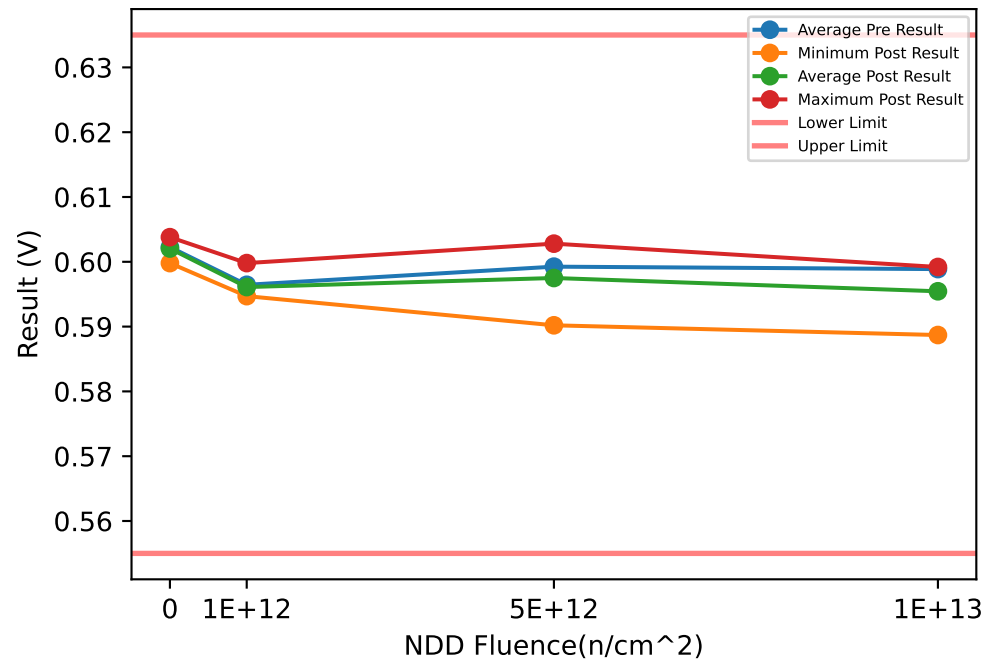
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	103	103.5	0.501
229	5e+12	NDD	103.5	103.5	0
260	1e+13	NDD	103	102.5	-0.501
301	1e+12	NDD	103.5	103.5	0
362	5e+12	NDD	103	103.5	0.501
365	1e+13	NDD	103	102.5	-0.501
439	1e+12	NDD	104	103.5	-0.501
514	5e+12	NDD	104	103.5	-0.501
577	1e+13	NDD	103.5	103	-0.5
634	1e+12	NDD	104	104	0
635	5e+12	NDD	103	103	0
713	1e+13	NDD	104	103.5	-0.5
732	0	CORRELATION	103.5	104	0.501
742	0	CORRELATION	103.5	103	-0.501
879	0	CORRELATION	104.51	104	-0.501
880	0	CORRELATION	104	104	0

Test Statistics (mV)

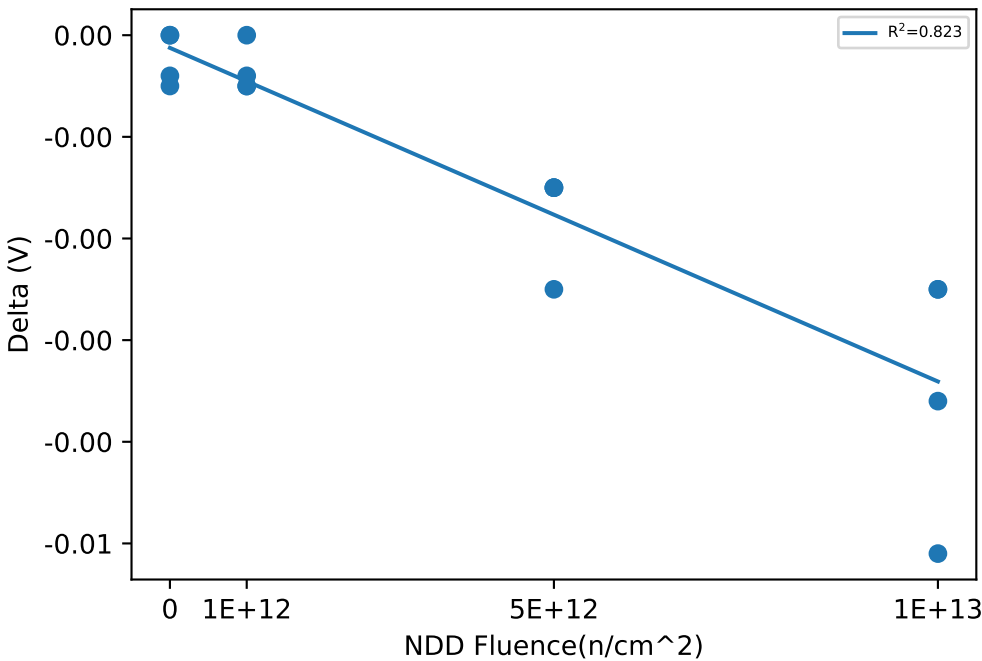
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	103.5	103.88	104.51	0.47967	103	103.75	104	0.501	-0.501	-0.12525	0.501	0.47967
1e+12	103	103.63	104	0.47967	103.5	103.63	104	0.2505	-0.501	3.5527e-15	0.501	0.40906
5e+12	103	103.38	104	0.47924	103	103.38	103.5	0.25033	-0.501	0	0.501	0.40906
1e+13	103	103.38	104	0.47915	102.5	102.88	103.5	0.47967	-0.501	-0.5005	-0.5	0.00057735

Device Test: 16.5 THRESHOLD|RISE/FAULT/5/////@FAULT_VTH_RISING

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

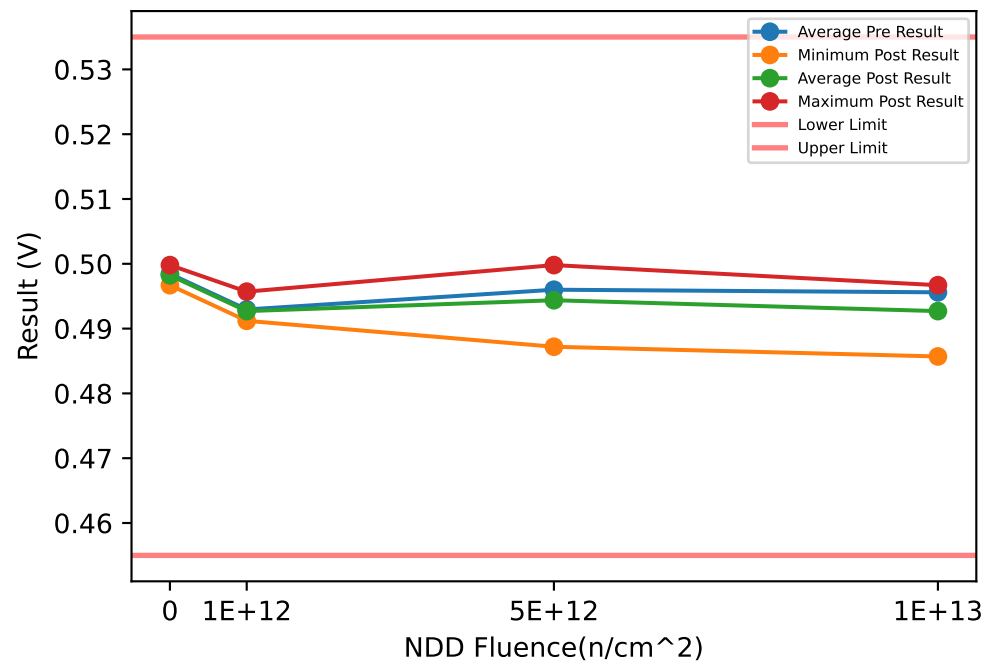
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.5952	0.5947	-0.0005
229	5e+12	NDD	0.6043	0.6028	-0.0015
260	1e+13	NDD	0.6002	0.5977	-0.0025
301	1e+12	NDD	0.5957	0.5952	-0.0005
362	5e+12	NDD	0.6043	0.6028	-0.0015
365	1e+13	NDD	0.6043	0.5992	-0.0051
439	1e+12	NDD	0.5947	0.5947	0
514	5e+12	NDD	0.5967	0.5942	-0.0025
577	1e+13	NDD	0.5912	0.5887	-0.0025
634	1e+12	NDD	0.6002	0.5998	-0.0004
635	5e+12	NDD	0.5917	0.5902	-0.0015
713	1e+13	NDD	0.5998	0.5962	-0.0036
732	0	CORRELATION	0.6038	0.6038	0
742	0	CORRELATION	0.6002	0.5998	-0.0004
879	0	CORRELATION	0.6023	0.6023	0
880	0	CORRELATION	0.6028	0.6023	-0.0005

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	0.6002	0.60228	0.6038	0.0015174	0.5998	0.60205	0.6038	0.0016583	-0.0005	-0.000225	0	0.000263
1e+12	0.5947	0.59645	0.6002	0.0025331	0.5947	0.5961	0.5998	0.0024779	-0.0005	-0.00035	0	0.00023805
5e+12	0.5917	0.59925	0.6043	0.0061782	0.5902	0.5975	0.6028	0.006334	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5912	0.59887	0.6043	0.005506	0.5887	0.59545	0.5992	0.0046637	-0.0051	-0.003425	-0.0025	0.0012312

Device Test: 16.6 THRESHOLD|FALL/FAULT/5////@FAULT_VTH_FALLING

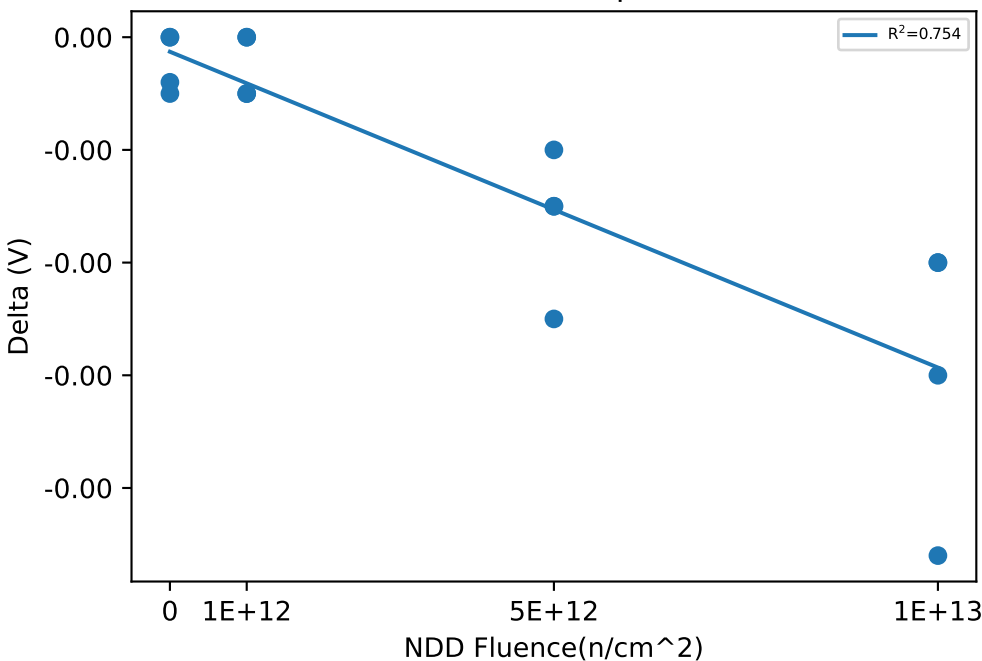
NDD vs Result Stats



Test Results (Lower Limit = 0.455, Upper Limit = 0.535 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4917	0.4917	0
229	5e+12	NDD	0.5013	0.4998	-0.0015
260	1e+13	NDD	0.4972	0.4952	-0.002
301	1e+12	NDD	0.4922	0.4922	0
362	5e+12	NDD	0.5008	0.4998	-0.001
365	1e+13	NDD	0.5013	0.4967	-0.0046
439	1e+12	NDD	0.4917	0.4912	-0.0005
514	5e+12	NDD	0.4932	0.4907	-0.0025
577	1e+13	NDD	0.4877	0.4857	-0.002
634	1e+12	NDD	0.4962	0.4957	-0.0005
635	5e+12	NDD	0.4887	0.4872	-0.0015
713	1e+13	NDD	0.4962	0.4932	-0.003
732	0	CORRELATION	0.5002	0.4998	-0.0004
742	0	CORRELATION	0.4967	0.4967	0
879	0	CORRELATION	0.4982	0.4982	0
880	0	CORRELATION	0.4987	0.4982	-0.0005

NDD vs Post - Pre Exposure Delta

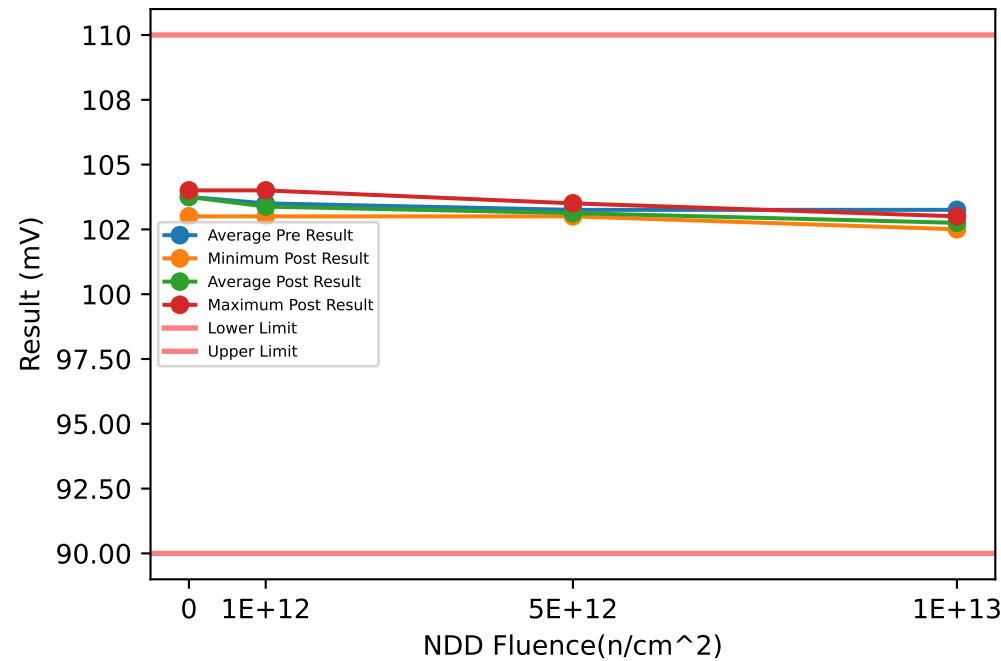


Test Statistics (V)

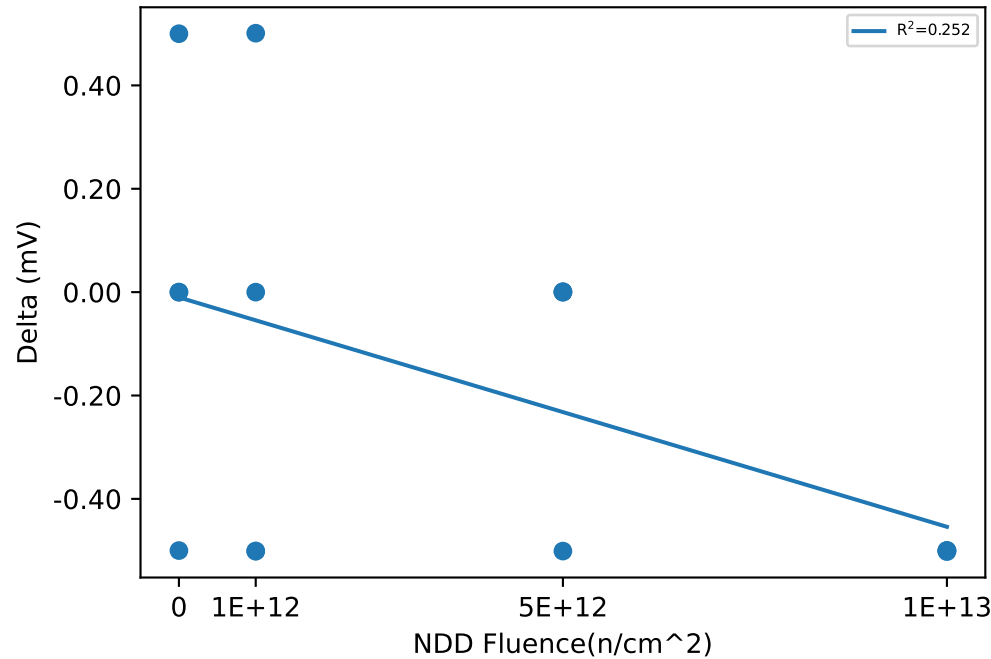
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.4967	0.49845	0.5002	0.0014434	0.4967	0.49822	0.4998	0.0012659	-0.0005	-0.000225	0	0.000263
1e+12	0.4917	0.49295	0.4962	0.0021794	0.4912	0.4927	0.4957	0.0020412	-0.0005	-0.00025	0	0.00028868
5e+12	0.4887	0.496	0.5013	0.0061172	0.4872	0.49438	0.4998	0.0064251	-0.0025	-0.001625	-0.001	0.00062915
1e+13	0.4877	0.4956	0.5013	0.0057102	0.4857	0.4927	0.4967	0.0048819	-0.0046	-0.0029	-0.002	0.0012275

Device Test: 16.7 THRESHOLD|HYST/FAULT/5////@FAULT_VTH_HYST

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 90.0, Upper Limit = 110.0 (mV))

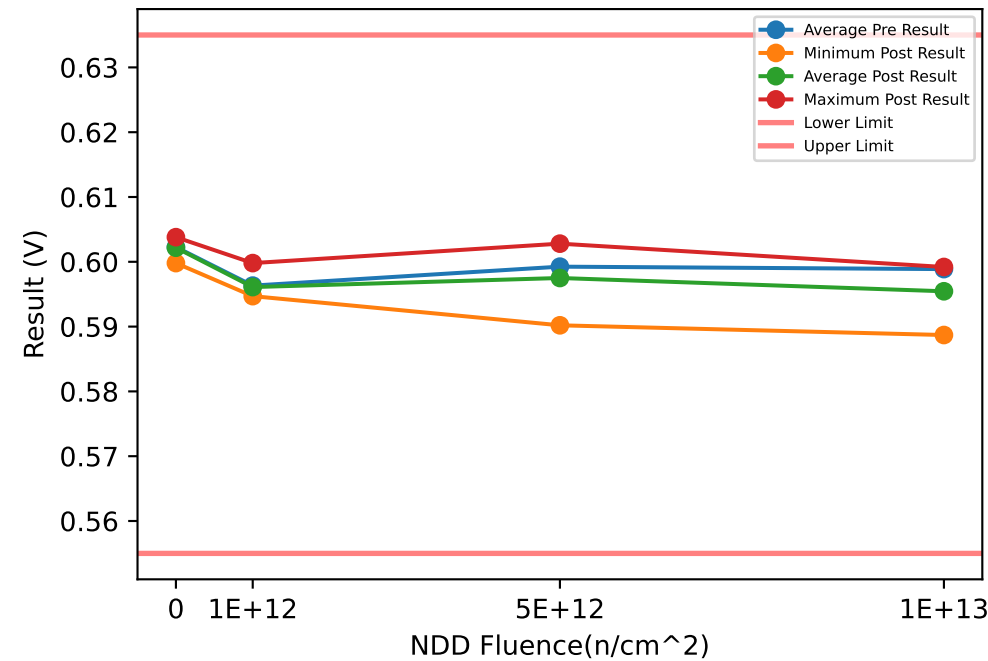
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	103.5	103	-0.501
229	5e+12	NDD	103	103	0
260	1e+13	NDD	103	102.5	-0.5
301	1e+12	NDD	103.5	103	-0.501
362	5e+12	NDD	103.5	103	-0.501
365	1e+13	NDD	103	102.5	-0.5
439	1e+12	NDD	103	103.5	0.501
514	5e+12	NDD	103.5	103.5	0.001
577	1e+13	NDD	103.5	103	-0.5
634	1e+12	NDD	104	104	0
635	5e+12	NDD	103	103	0
713	1e+13	NDD	103.5	103	-0.502
732	0	CORRELATION	103.5	104	0.5
742	0	CORRELATION	103.5	103	-0.5
879	0	CORRELATION	104	104	0
880	0	CORRELATION	104	104	0

Test Statistics (mV)

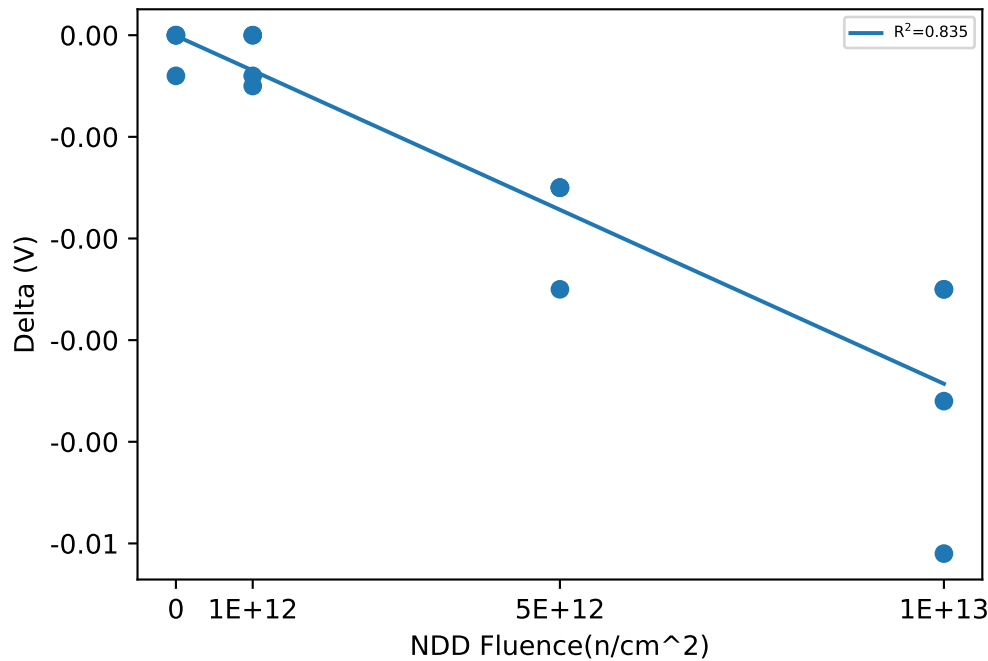
Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	103.5	103.75	104	0.28896	103	103.75	104	0.5005	-0.5	0	0.5	0.40825
1e+12	103	103.5	104	0.40907	103	103.38	104	0.47941	-0.501	-0.12525	0.501	0.47967
5e+12	103	103.25	103.5	0.28896	103	103.13	103.5	0.25083	-0.501	-0.125	0.001	0.25067
1e+13	103	103.25	103.5	0.28954	102.5	102.75	103	0.28896	-0.502	-0.5005	-0.5	0.001

Device Test: 16.9 THRESHOLD|RISE/FAULT/12////@FAULT_VTH_RISING

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



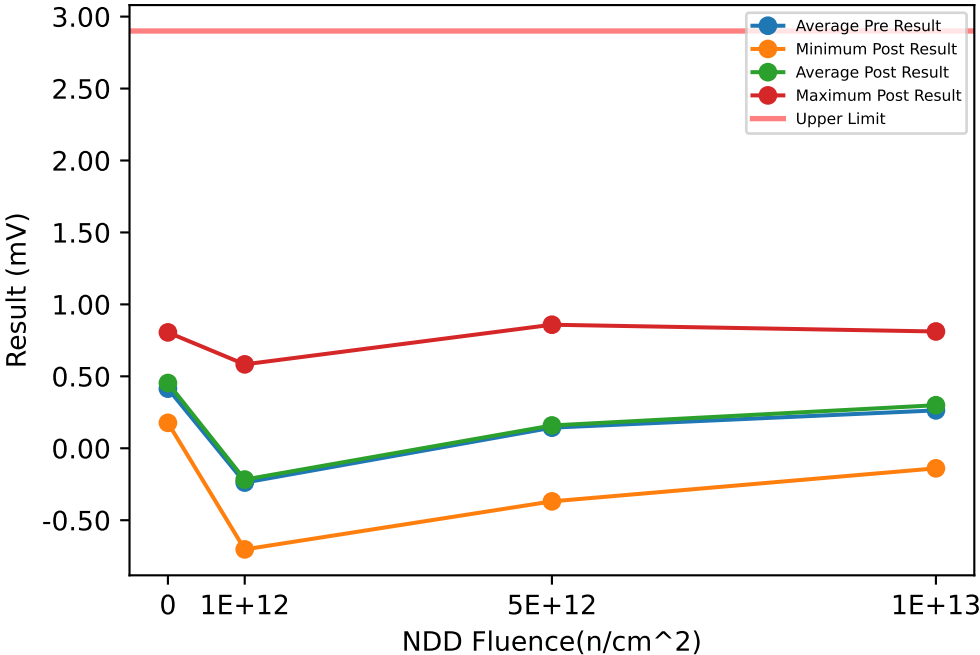
Test Results (Lower Limit = 0.555, Upper Limit = 0.635 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.5952	0.5947	-0.0005
229	5e+12	NDD	0.6043	0.6028	-0.0015
260	1e+13	NDD	0.6002	0.5977	-0.0025
301	1e+12	NDD	0.5952	0.5952	0
362	5e+12	NDD	0.6043	0.6028	-0.0015
365	1e+13	NDD	0.6043	0.5992	-0.0051
439	1e+12	NDD	0.5947	0.5947	0
514	5e+12	NDD	0.5967	0.5942	-0.0025
577	1e+13	NDD	0.5912	0.5887	-0.0025
634	1e+12	NDD	0.6002	0.5998	-0.0004
635	5e+12	NDD	0.5917	0.5902	-0.0015
713	1e+13	NDD	0.5998	0.5962	-0.0036
732	0	CORRELATION	0.6038	0.6038	0
742	0	CORRELATION	0.6002	0.5998	-0.0004
879	0	CORRELATION	0.6023	0.6023	0
880	0	CORRELATION	0.6028	0.6028	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	0.6002	0.60228	0.6038	0.0015174	0.5998	0.60218	0.6038	0.0017017	-0.0004	-0.0001	0	0.0002
1e+12	0.5947	0.59632	0.6002	0.0025941	0.5947	0.5961	0.5998	0.0024779	-0.0005	-0.000225	0	0.000263
5e+12	0.5917	0.59925	0.6043	0.0061782	0.5902	0.5975	0.6028	0.006334	-0.0025	-0.00175	-0.0015	0.0005
1e+13	0.5912	0.59887	0.6043	0.005506	0.5887	0.59545	0.5992	0.0046637	-0.0051	-0.003425	-0.0025	0.0012312

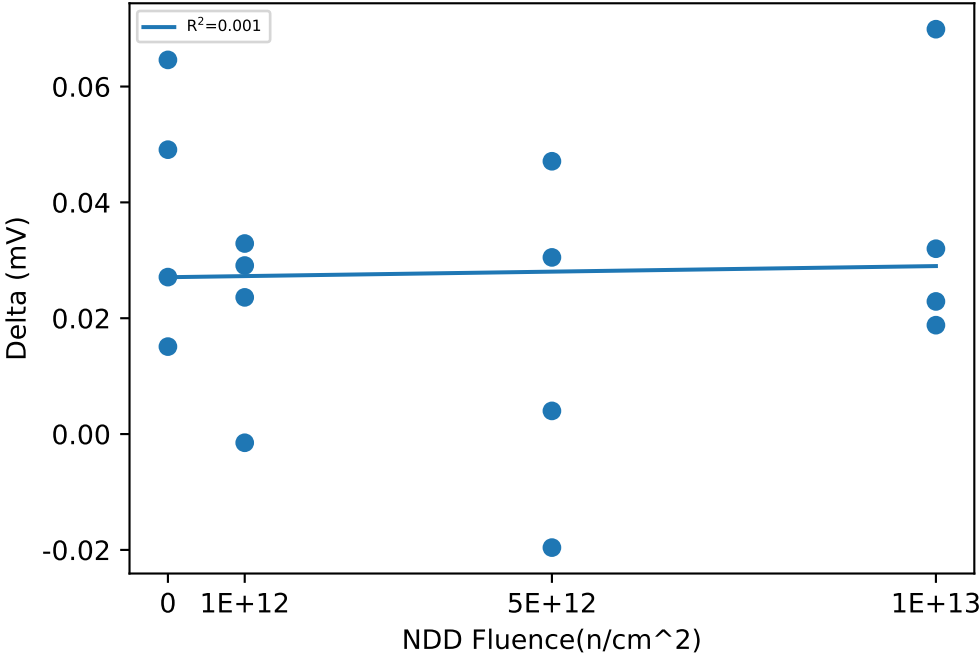
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	-0.7013	-0.7028	-0.0015
229	5e+12	NDD	0.1829	0.23	0.0471
260	1e+13	NDD	0.7797	0.8117	0.032
301	1e+12	NDD	0.5596	0.5832	0.0236
362	5e+12	NDD	-0.3731	-0.3691	0.004
365	1e+13	NDD	-0.1623	-0.1394	0.0229
439	1e+12	NDD	-0.2657	-0.2328	0.0329
514	5e+12	NDD	0.8782	0.8586	-0.0196
577	1e+13	NDD	0.3305	0.3493	0.0188
634	1e+12	NDD	-0.5466	-0.5175	0.0291
635	5e+12	NDD	-0.1156	-0.0851	0.0305
713	1e+13	NDD	0.1055	0.1754	0.0699
732	0	CORRELATION	0.377	0.4416	0.0646
742	0	CORRELATION	0.341	0.3901	0.0491
879	0	CORRELATION	0.1617	0.1768	0.0151
880	0	CORRELATION	0.7783	0.8054	0.0271

NDD vs Post - Pre Exposure Delta

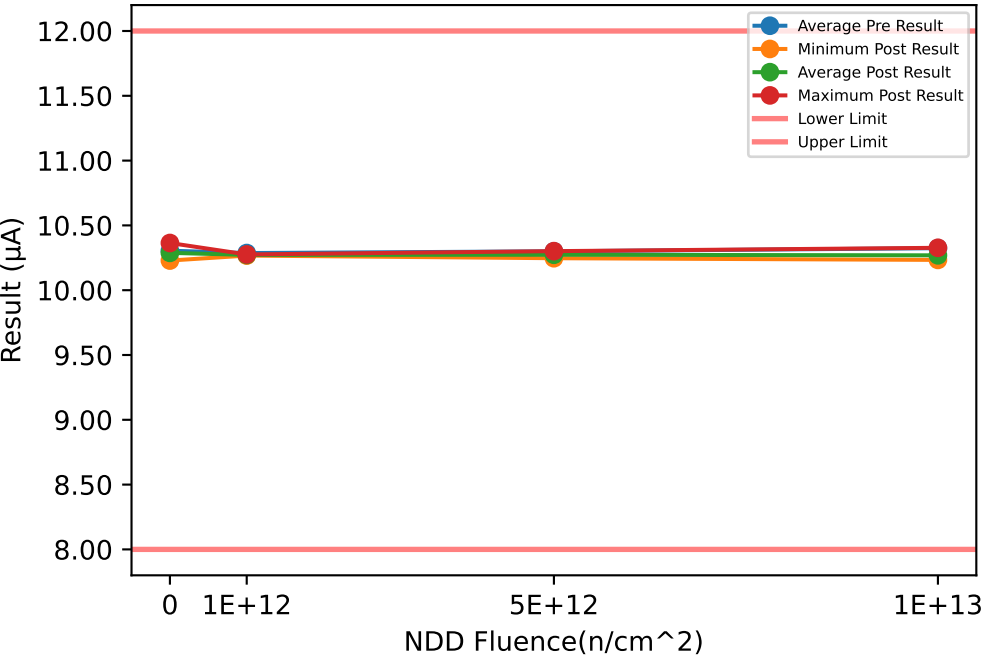


Test Statistics (mV)

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	0.1617	0.4145	0.7783	0.26017	0.1768	0.45348	0.8054	0.26112	0.0151	0.038975	0.0646	0.022137
1e+12	-0.7013	-0.2385	0.5596	0.56179	-0.7028	-0.21747	0.5832	0.56771	-0.0015	0.021025	0.0329	0.015494
5e+12	-0.3731	0.1431	0.8782	0.54017	-0.3691	0.1586	0.8586	0.52693	-0.0196	0.0155	0.0471	0.02937
1e+13	-0.1623	0.26335	0.7797	0.39884	-0.1394	0.29925	0.8117	0.39701	0.0188	0.0359	0.0699	0.023328

Device Test: 17.16 IDD|POWERED/VSNSN/5////@VSNSM_CURR

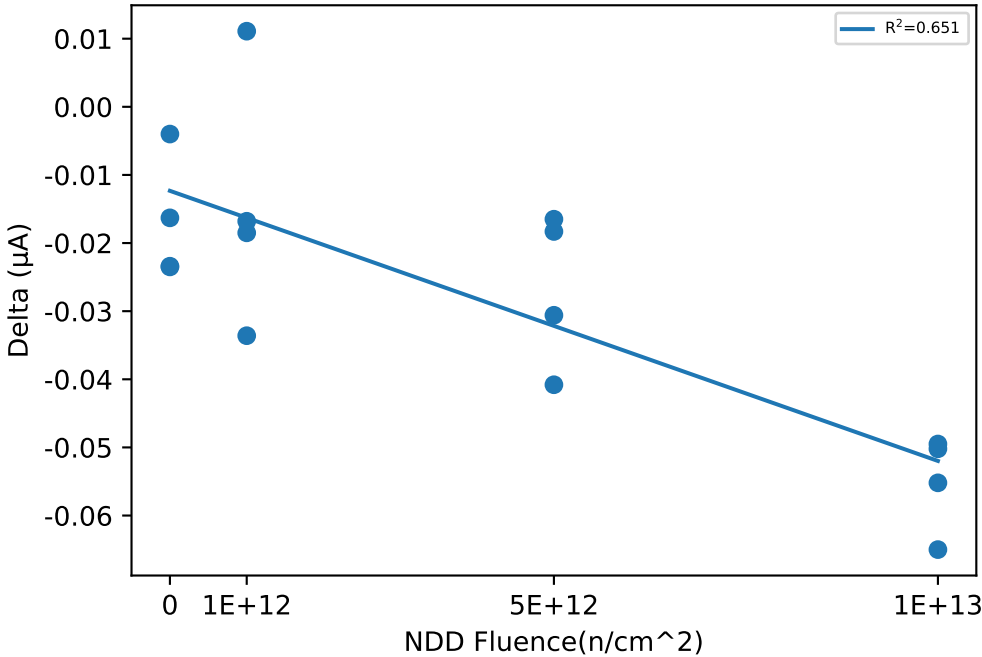
NDD vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	10.256	10.267	0.0111
229	5e+12	NDD	10.309	10.291	-0.0183
260	1e+13	NDD	10.289	10.234	-0.0552
301	1e+12	NDD	10.292	10.275	-0.0168
362	5e+12	NDD	10.296	10.255	-0.0408
365	1e+13	NDD	10.377	10.327	-0.0502
439	1e+12	NDD	10.294	10.276	-0.0185
514	5e+12	NDD	10.263	10.247	-0.0165
577	1e+13	NDD	10.312	10.262	-0.0495
634	1e+12	NDD	10.305	10.271	-0.0336
635	5e+12	NDD	10.332	10.301	-0.0306
713	1e+13	NDD	10.318	10.253	-0.065
732	0	CORRELATION	10.245	10.229	-0.0163
742	0	CORRELATION	10.309	10.285	-0.0234
879	0	CORRELATION	10.298	10.274	-0.0235
880	0	CORRELATION	10.368	10.364	-0.004

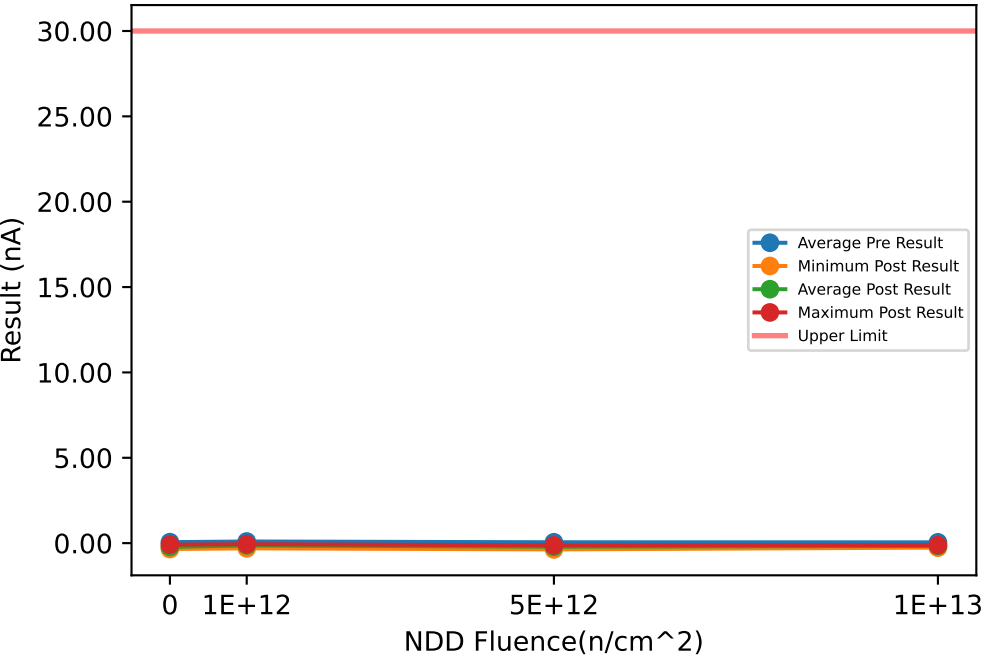
NDD vs Post - Pre Exposure Delta



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	10.245	10.305	10.368	0.05049	10.229	10.288	10.364	0.056302	-0.0235	-0.0168	-0.004	0.009175
1e+12	10.256	10.287	10.305	0.021229	10.267	10.272	10.276	0.0041316	-0.0336	-0.01445	0.0111	0.018632
5e+12	10.263	10.3	10.332	0.028733	10.247	10.273	10.301	0.026729	-0.0408	-0.02655	-0.0165	0.01138
1e+13	10.289	10.324	10.377	0.037651	10.234	10.269	10.327	0.040497	-0.065	-0.054975	-0.0495	0.0071491

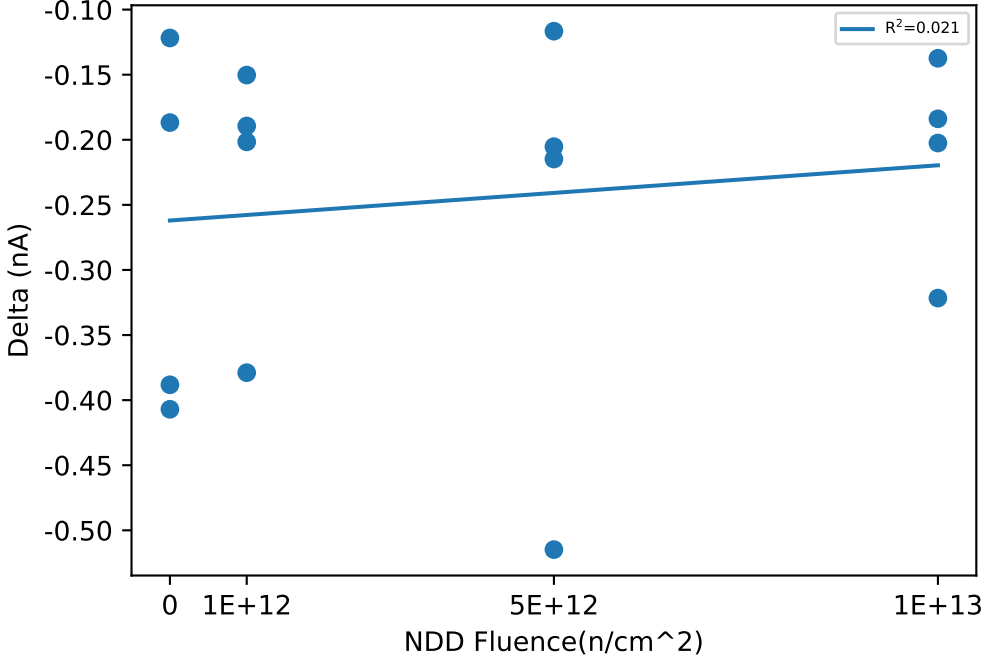
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.0747	-0.3042	-0.3789
229	5e+12	NDD	0.1482	-0.3666	-0.5148
260	1e+13	NDD	0.058	-0.2636	-0.3216
301	1e+12	NDD	0.0679	-0.0824	-0.1503
362	5e+12	NDD	-0.0126	-0.1292	-0.1166
365	1e+13	NDD	0.0857	-0.1168	-0.2025
439	1e+12	NDD	0.1174	-0.0842	-0.2016
514	5e+12	NDD	0.0087	-0.1966	-0.2053
577	1e+13	NDD	0.0435	-0.1404	-0.1839
634	1e+12	NDD	0.1263	-0.0631	-0.1894
635	5e+12	NDD	0.0612	-0.1536	-0.2148
713	1e+13	NDD	0.0025	-0.1349	-0.1374
732	0	CORRELATION	0.0622	-0.3448	-0.407
742	0	CORRELATION	0.042	-0.1448	-0.1868
879	0	CORRELATION	0.0337	-0.0881	-0.1218
880	0	CORRELATION	0.0934	-0.2948	-0.3882

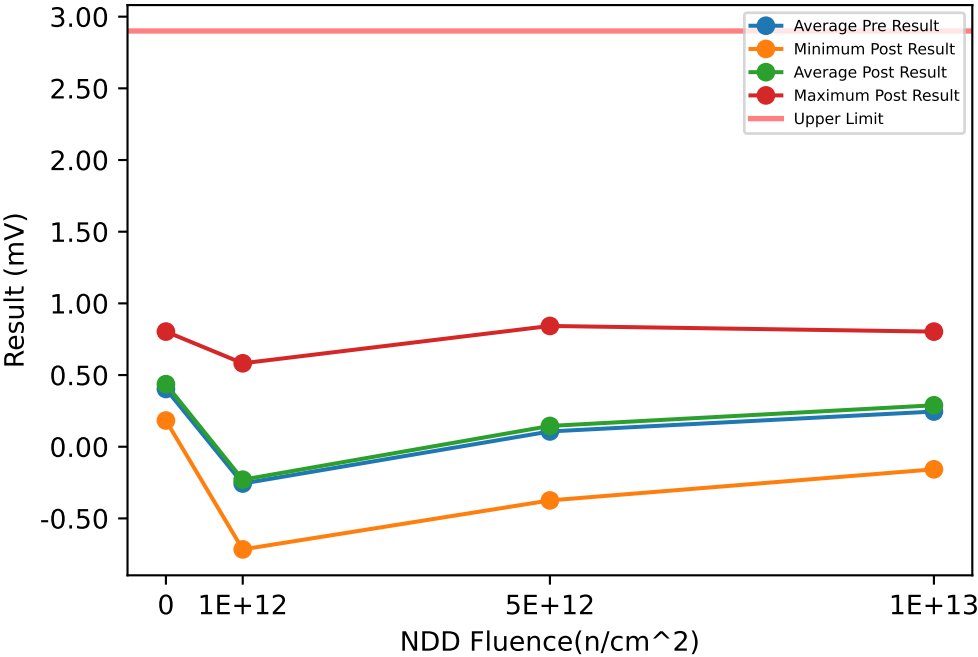
NDD vs Post - Pre Exposure Delta



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	0.0337	0.057825	0.0934	0.026565	-0.3448	-0.21813	-0.0881	0.12139	-0.407	-0.27595	-0.1218	0.14316
1e+12	0.0679	0.096575	0.1263	0.029541	-0.3042	-0.13348	-0.0631	0.11422	-0.3789	-0.23005	-0.1503	0.10162
5e+12	-0.0126	0.051375	0.1482	0.071614	-0.3666	-0.2115	-0.1292	0.10709	-0.5148	-0.26287	-0.1166	0.17367
1e+13	0.0025	0.047425	0.0857	0.034691	-0.2636	-0.16392	-0.1168	0.06721	-0.3216	-0.21135	-0.1374	0.078434

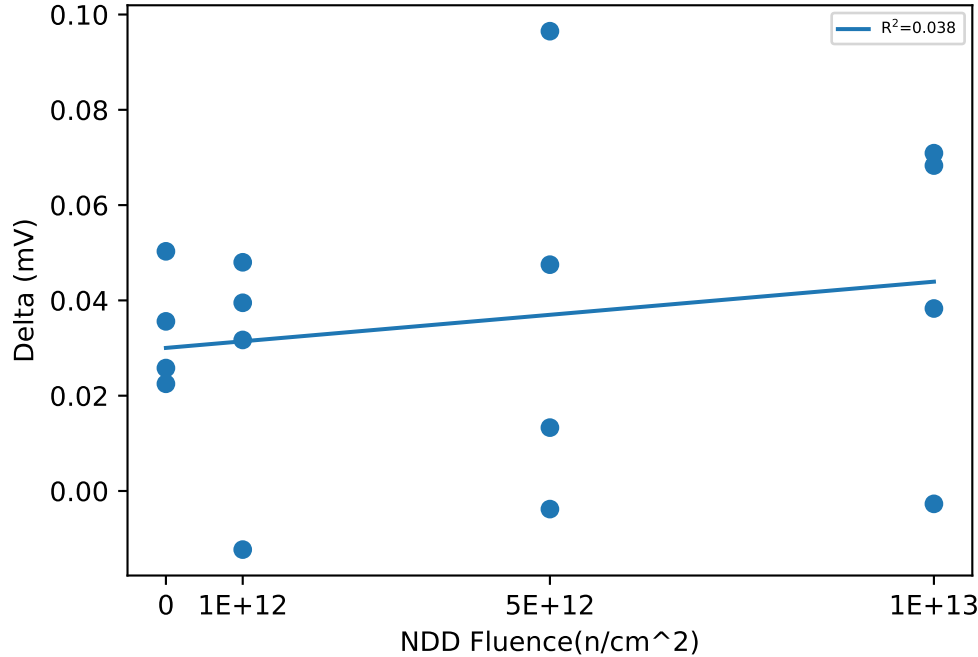
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	-0.7642	-0.7162	0.048
229	5e+12	NDD	0.1284	0.2249	0.0965
260	1e+13	NDD	0.732	0.8029	0.0709
301	1e+12	NDD	0.5425	0.582	0.0395
362	5e+12	NDD	-0.422	-0.3745	0.0475
365	1e+13	NDD	-0.1958	-0.1575	0.0383
439	1e+12	NDD	-0.2844	-0.2527	0.0317
514	5e+12	NDD	0.8463	0.8425	-0.0038
577	1e+13	NDD	0.3663	0.3636	-0.0027
634	1e+12	NDD	-0.521	-0.5333	-0.0123
635	5e+12	NDD	-0.1261	-0.1128	0.0133
713	1e+13	NDD	0.0791	0.1474	0.0683
732	0	CORRELATION	0.3751	0.4009	0.0258
742	0	CORRELATION	0.3084	0.3587	0.0503
879	0	CORRELATION	0.1604	0.1829	0.0225
880	0	CORRELATION	0.7676	0.8032	0.0356

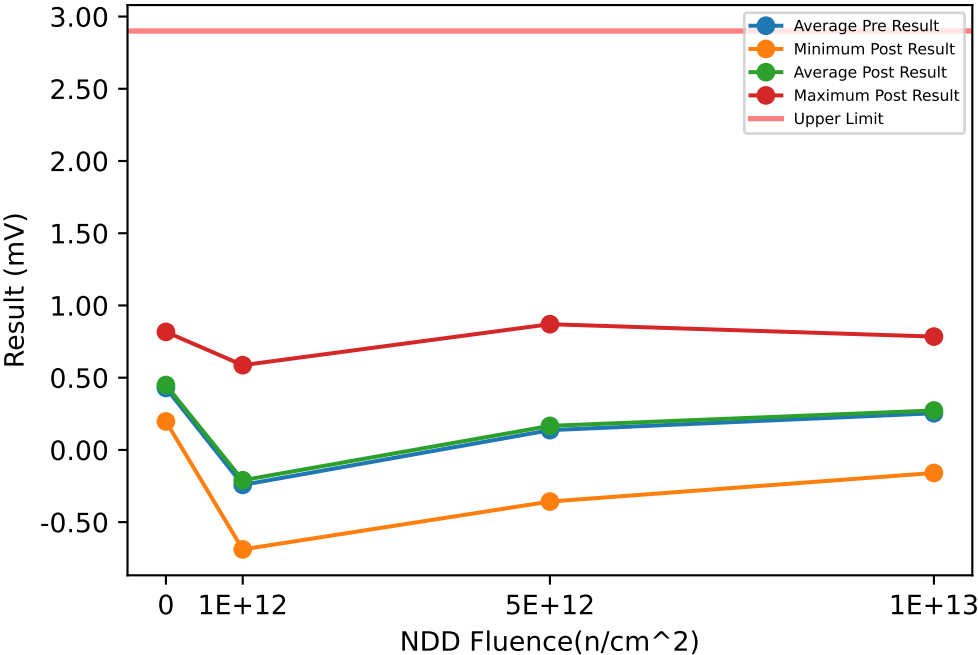
NDD vs Post - Pre Exposure Delta



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	0.1604	0.40287	0.7676	0.25918	0.1829	0.43643	0.8032	0.26211	0.0225	0.03355	0.0503	0.012476
1e+12	-0.7642	-0.25677	0.5425	0.56771	-0.7162	-0.23005	0.582	0.57395	-0.0123	0.026725	0.048	0.026855
5e+12	-0.422	0.10665	0.8463	0.54197	-0.3745	0.14503	0.8425	0.52575	-0.0038	0.038375	0.0965	0.044231
1e+13	-0.1958	0.2454	0.732	0.39737	-0.1575	0.2891	0.8029	0.40376	-0.0027	0.0437	0.0709	0.034289

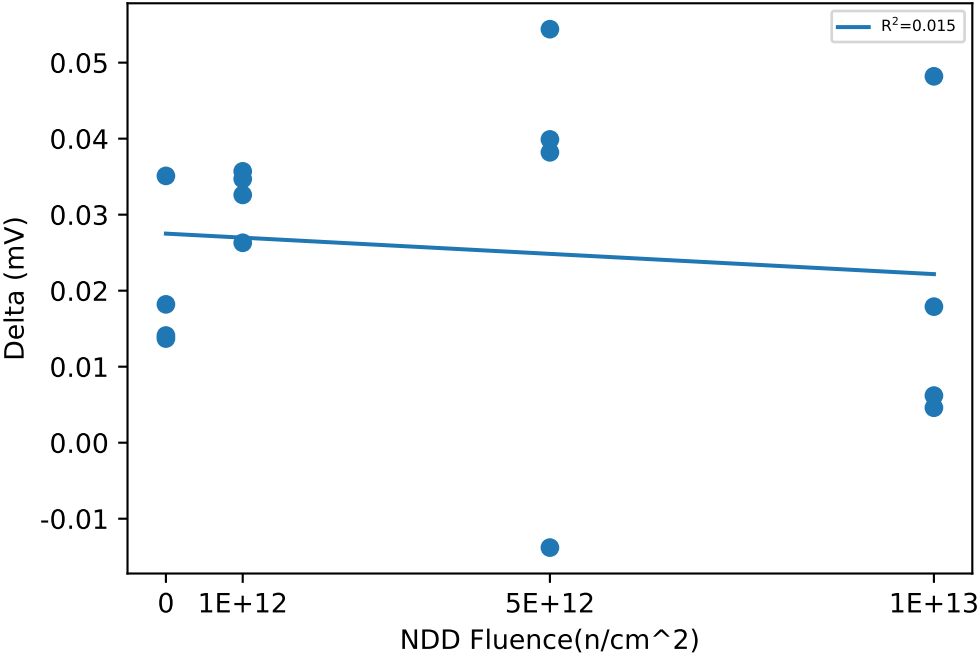
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	-0.7213	-0.6887	0.0326
229	5e+12	NDD	0.1669	0.2213	0.0544
260	1e+13	NDD	0.7665	0.7844	0.0179
301	1e+12	NDD	0.551	0.5867	0.0357
362	5e+12	NDD	-0.3957	-0.3575	0.0382
365	1e+13	NDD	-0.1642	-0.1596	0.0046
439	1e+12	NDD	-0.2615	-0.2352	0.0263
514	5e+12	NDD	0.8841	0.8703	-0.0138
577	1e+13	NDD	0.3215	0.3277	0.0062
634	1e+12	NDD	-0.5374	-0.5027	0.0347
635	5e+12	NDD	-0.1083	-0.0684	0.0399
713	1e+13	NDD	0.0911	0.1393	0.0482
732	0	CORRELATION	0.3843	0.4194	0.0351
742	0	CORRELATION	0.3491	0.3628	0.0137
879	0	CORRELATION	0.1831	0.1972	0.0141
880	0	CORRELATION	0.7988	0.817	0.0182

NDD vs Post - Pre Exposure Delta

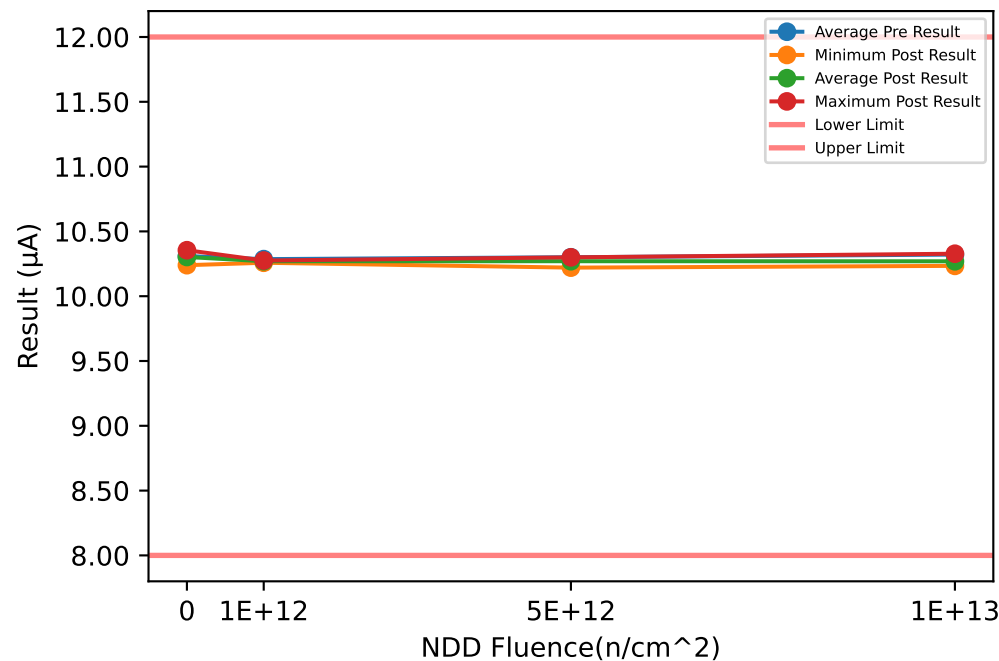


Test Statistics (mV)

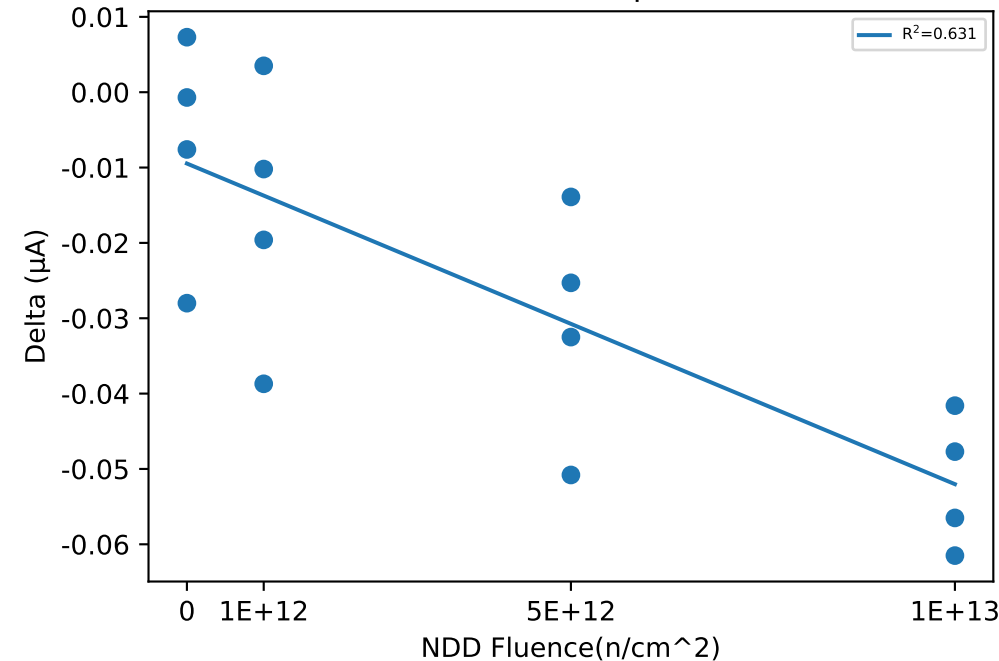
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.1831	0.42883	0.7988	0.26179	0.1972	0.4491	0.817	0.26276	0.0137	0.020275	0.0351	0.01009
1e+12	-0.7213	-0.2423	0.551	0.56161	-0.6887	-0.20997	0.5867	0.56279	0.0263	0.032325	0.0357	0.0042193
5e+12	-0.3957	0.13675	0.8841	0.54863	-0.3575	0.16642	0.8703	0.52539	-0.0138	0.029675	0.0544	0.029881
1e+13	-0.1642	0.25372	0.7665	0.39524	-0.1596	0.27295	0.7844	0.39562	0.0046	0.019225	0.0482	0.020206

Device Test: 17.28 IDD|POWERED/VSNSN/12////@VSNSM_CURR

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



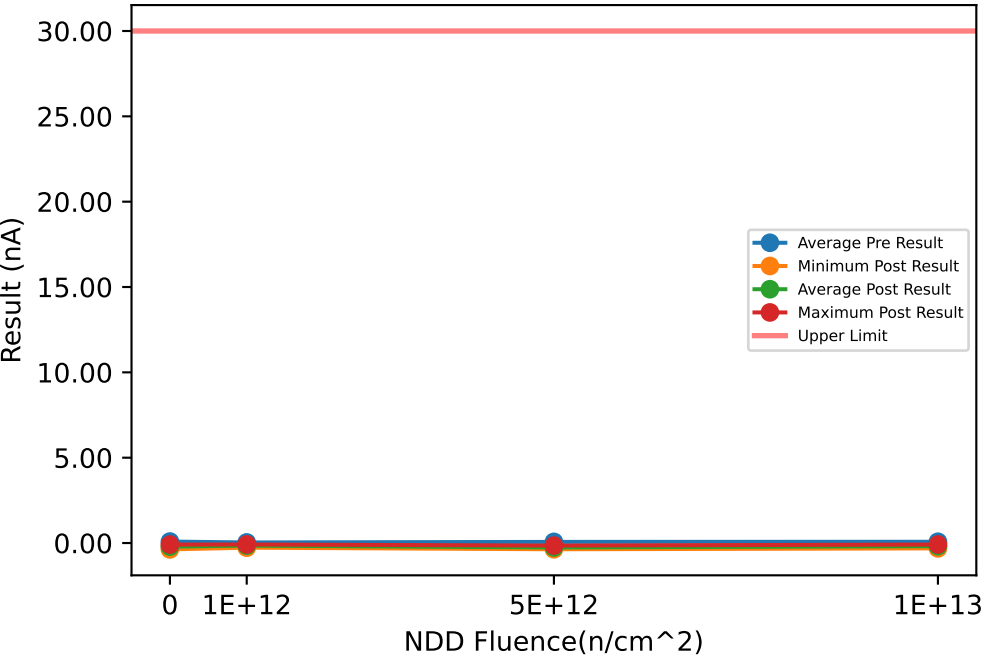
Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	10.268	10.258	-0.0102
229	5e+12	NDD	10.325	10.3	-0.0253
260	1e+13	NDD	10.282	10.234	-0.0477
301	1e+12	NDD	10.272	10.275	0.0035
362	5e+12	NDD	10.295	10.281	-0.0139
365	1e+13	NDD	10.369	10.328	-0.0416
439	1e+12	NDD	10.291	10.271	-0.0196
514	5e+12	NDD	10.253	10.22	-0.0325
577	1e+13	NDD	10.319	10.263	-0.0565
634	1e+12	NDD	10.313	10.275	-0.0387
635	5e+12	NDD	10.329	10.278	-0.0508
713	1e+13	NDD	10.314	10.252	-0.0615
732	0	CORRELATION	10.24	10.239	-0.0007
742	0	CORRELATION	10.302	10.309	0.0073
879	0	CORRELATION	10.314	10.306	-0.0076
880	0	CORRELATION	10.383	10.355	-0.028

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	10.24	10.31	10.383	0.058543	10.239	10.302	10.355	0.047576	-0.028	-0.00725	0.0073	0.015114
1e+12	10.268	10.286	10.313	0.020719	10.258	10.27	10.275	0.0080577	-0.0387	-0.01625	0.0035	0.017719
5e+12	10.253	10.3	10.329	0.035285	10.22	10.27	10.3	0.034326	-0.0508	-0.030625	-0.0139	0.015477
1e+13	10.282	10.321	10.369	0.036187	10.234	10.269	10.328	0.040737	-0.0615	-0.051825	-0.0416	0.0088887

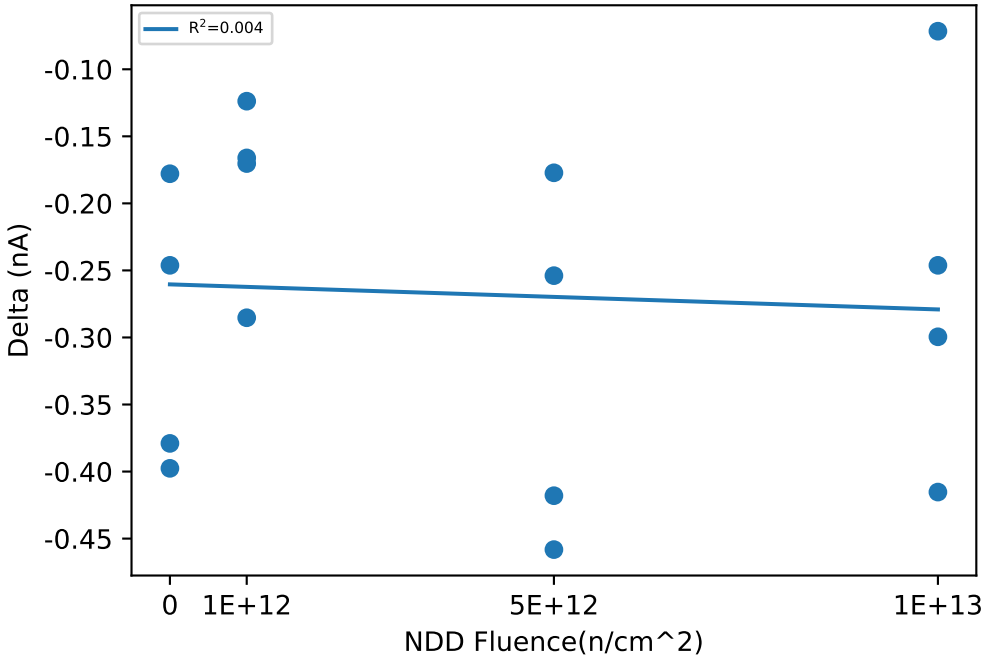
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.0123	-0.273	-0.2853
229	5e+12	NDD	0.092	-0.326	-0.418
260	1e+13	NDD	0.1017	-0.3136	-0.4153
301	1e+12	NDD	-0.0006	-0.1667	-0.1661
362	5e+12	NDD	0.056	-0.1979	-0.2539
365	1e+13	NDD	0.092	-0.1542	-0.2462
439	1e+12	NDD	0.0861	-0.0842	-0.1703
514	5e+12	NDD	0.0274	-0.1498	-0.1772
577	1e+13	NDD	-0.0157	-0.0873	-0.0716
634	1e+12	NDD	0.0389	-0.0849	-0.1238
635	5e+12	NDD	0.0924	-0.3658	-0.4582
713	1e+13	NDD	0.1178	-0.1817	-0.2995
732	0	CORRELATION	0.0061	-0.3729	-0.379
742	0	CORRELATION	0.1357	-0.1105	-0.2462
879	0	CORRELATION	0.0867	-0.0912	-0.1779
880	0	CORRELATION	0.1184	-0.2792	-0.3976

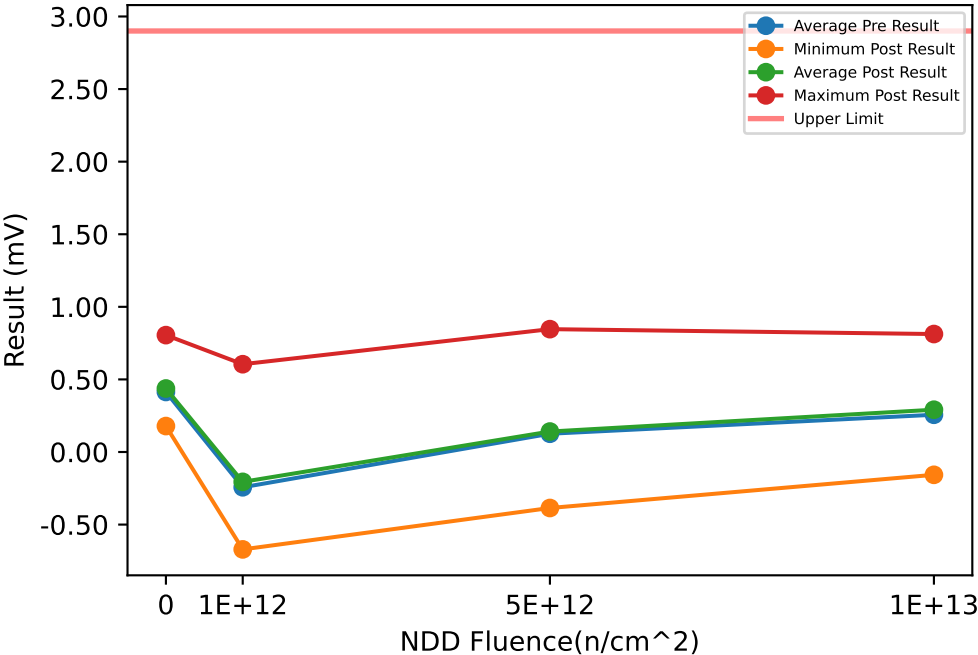
NDD vs Post - Pre Exposure Delta



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	0.0061	0.086725	0.1357	0.057452	-0.3729	-0.21345	-0.0912	0.13576	-0.3976	-0.30017	-0.1779	0.10578
1e+12	-0.0006	0.034175	0.0861	0.038325	-0.273	-0.1522	-0.0842	0.089361	-0.2853	-0.18638	-0.1238	0.069213
5e+12	0.0274	0.06695	0.0924	0.031408	-0.3658	-0.25987	-0.1498	0.10255	-0.4582	-0.32683	-0.1772	0.13326
1e+13	-0.0157	0.07395	0.1178	0.060706	-0.3136	-0.1842	-0.0873	0.094939	-0.4153	-0.25815	-0.0716	0.143

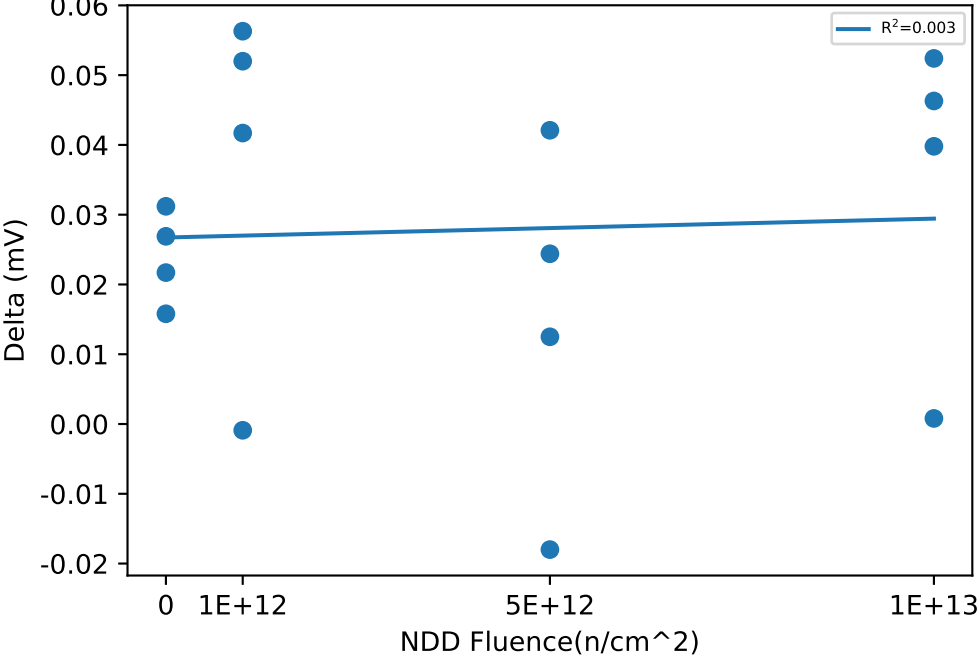
NDD vs Result Stats



Test Results (Upper Limit = 2.9 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	-0.7272	-0.6709	0.0563
229	5e+12	NDD	0.1593	0.2014	0.0421
260	1e+13	NDD	0.7663	0.8126	0.0463
301	1e+12	NDD	0.5527	0.6047	0.052
362	5e+12	NDD	-0.4101	-0.3857	0.0244
365	1e+13	NDD	-0.197	-0.1572	0.0398
439	1e+12	NDD	-0.2774	-0.2357	0.0417
514	5e+12	NDD	0.8642	0.8462	-0.018
577	1e+13	NDD	0.3366	0.3374	0.0008
634	1e+12	NDD	-0.5201	-0.521	-0.0009
635	5e+12	NDD	-0.1105	-0.098	0.0125
713	1e+13	NDD	0.12	0.1724	0.0524
732	0	CORRELATION	0.3804	0.4073	0.0269
742	0	CORRELATION	0.3428	0.3586	0.0158
879	0	CORRELATION	0.157	0.1787	0.0217
880	0	CORRELATION	0.7739	0.8051	0.0312

NDD vs Post - Pre Exposure Delta

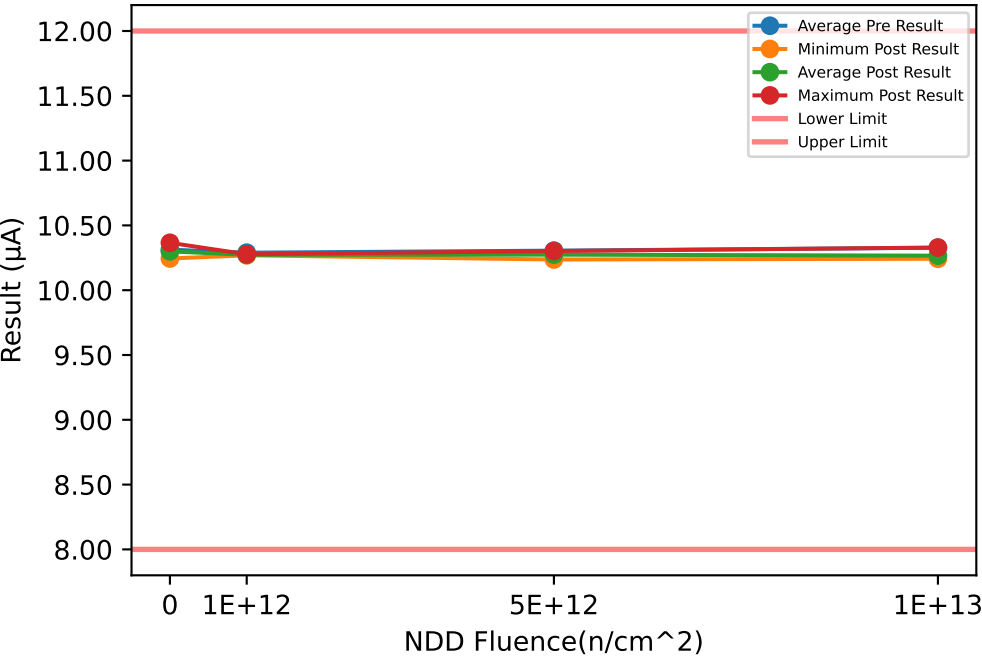


Test Statistics (mV)

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	0.157	0.41353	0.7739	0.25934	0.1787	0.43743	0.8051	0.2641	0.0158	0.0239	0.0312	0.0066518
1e+12	-0.7272	-0.243	0.5527	0.56141	-0.6709	-0.20573	0.6047	0.56964	-0.0009	0.037275	0.0563	0.026177
5e+12	-0.4101	0.12572	0.8642	0.54448	-0.3857	0.14097	0.8462	0.52773	-0.018	0.01525	0.0421	0.025284
1e+13	-0.197	0.25648	0.7663	0.4044	-0.1572	0.2913	0.8126	0.4038	0.0008	0.034825	0.0524	0.023259

Device Test: 17.4 IDD|POWERED/VSNSN/4.5////@VSNSM_CURR

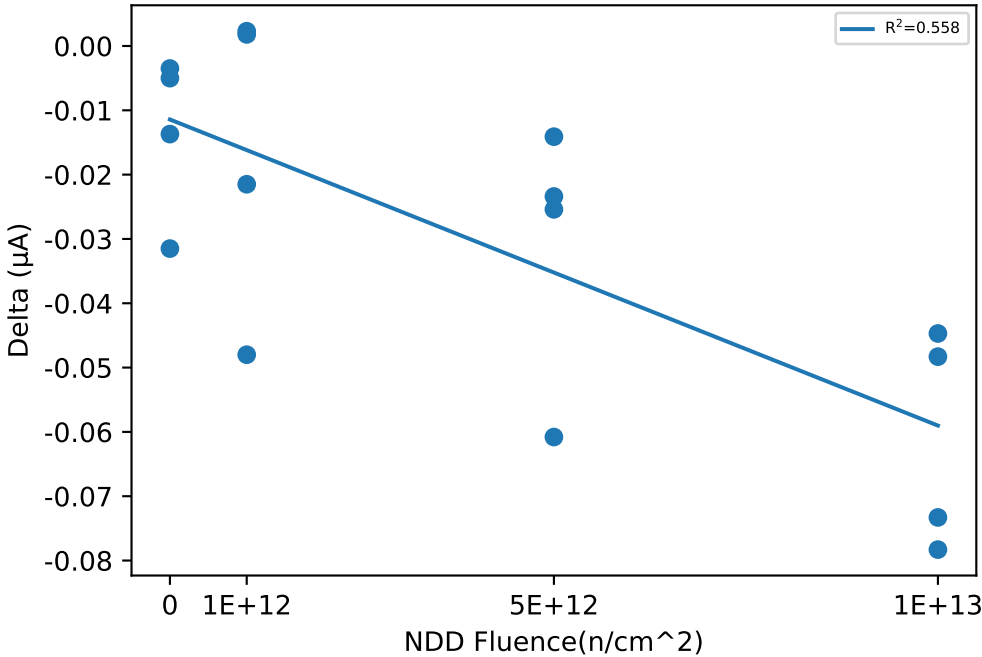
NDD vs Result Stats



Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (µA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	10.27	10.272	0.0018
229	5e+12	NDD	10.316	10.302	-0.0141
260	1e+13	NDD	10.287	10.242	-0.0447
301	1e+12	NDD	10.275	10.277	0.0023
362	5e+12	NDD	10.302	10.276	-0.0254
365	1e+13	NDD	10.377	10.329	-0.0483
439	1e+12	NDD	10.296	10.274	-0.0215
514	5e+12	NDD	10.26	10.237	-0.0234
577	1e+13	NDD	10.318	10.244	-0.0733
634	1e+12	NDD	10.317	10.269	-0.048
635	5e+12	NDD	10.343	10.282	-0.0608
713	1e+13	NDD	10.328	10.25	-0.0783
732	0	CORRELATION	10.248	10.245	-0.0035
742	0	CORRELATION	10.302	10.297	-0.005
879	0	CORRELATION	10.322	10.29	-0.0315
880	0	CORRELATION	10.38	10.366	-0.0137

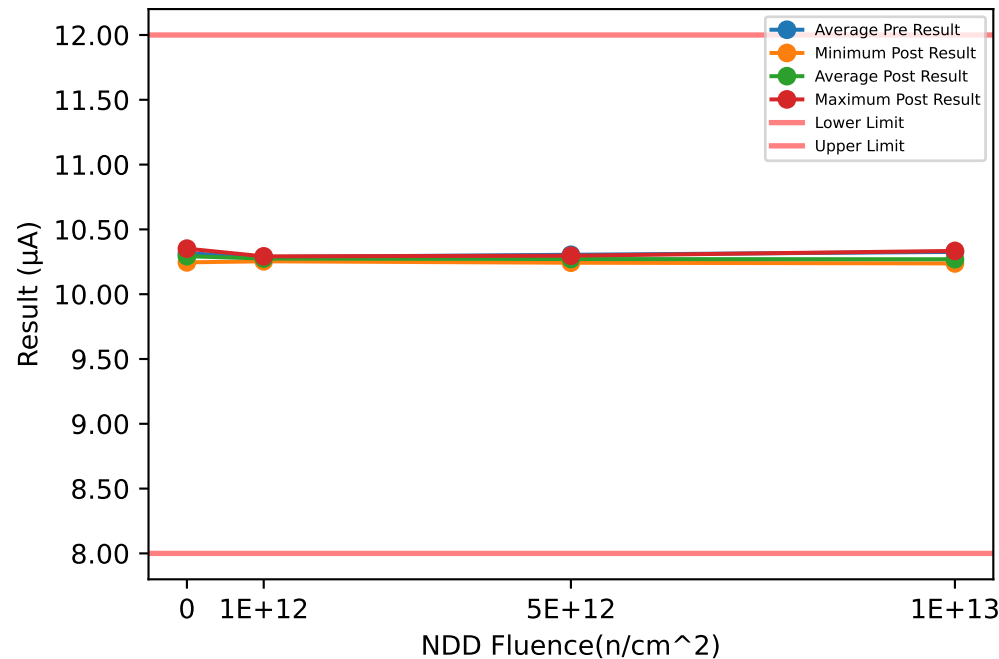
NDD vs Post - Pre Exposure Delta



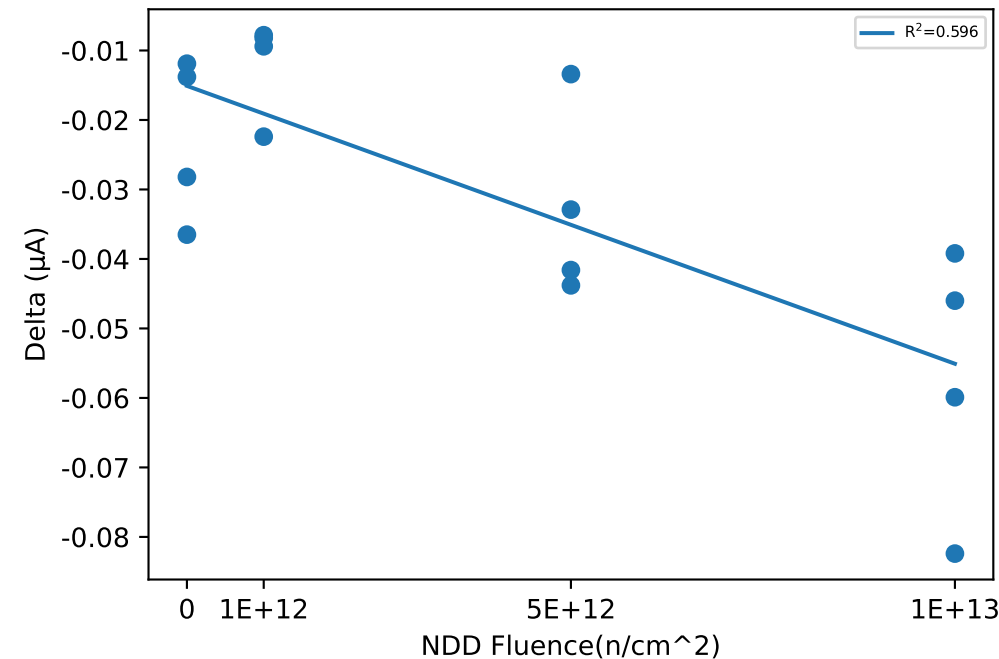
Test Statistics (µA)

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	10.248	10.313	10.38	0.054191	10.245	10.299	10.366	0.049981	-0.0315	-0.013425	-0.0035	0.012862
1e+12	10.27	10.289	10.317	0.021525	10.269	10.273	10.277	0.0033984	-0.048	-0.01635	0.0023	0.023843
5e+12	10.26	10.305	10.343	0.034448	10.237	10.274	10.302	0.027353	-0.0608	-0.030925	-0.0141	0.020516
1e+13	10.287	10.328	10.377	0.037429	10.242	10.266	10.329	0.041809	-0.0783	-0.06115	-0.0447	0.017102

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



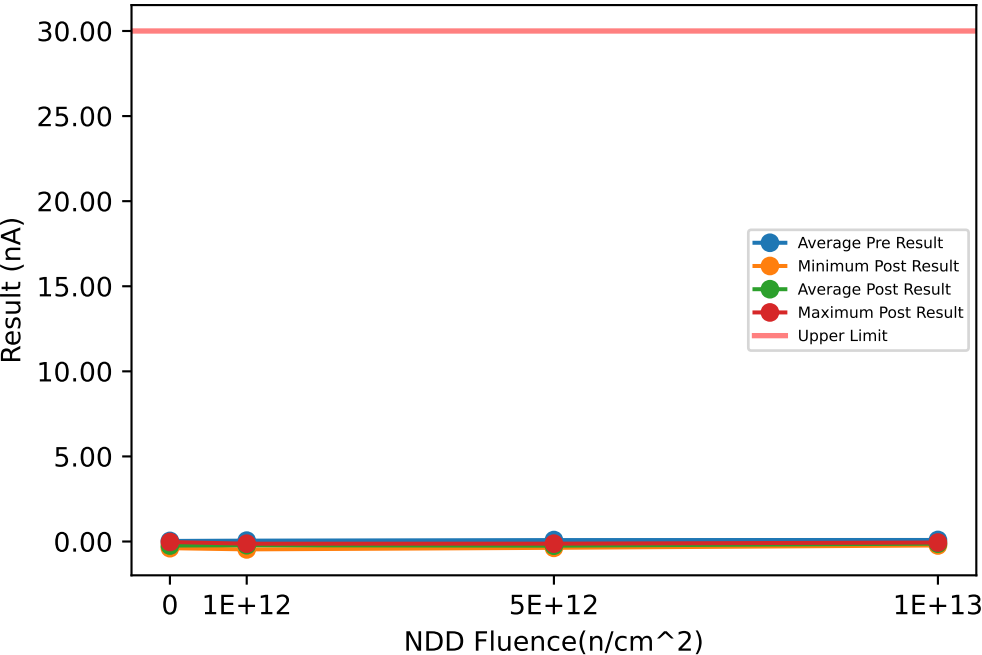
Test Results (Lower Limit = 8.0, Upper Limit = 12.0 (μA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	10.276	10.254	-0.0224
229	5e+12	NDD	10.321	10.288	-0.0329
260	1e+13	NDD	10.283	10.237	-0.046
301	1e+12	NDD	10.277	10.268	-0.0082
362	5e+12	NDD	10.299	10.258	-0.0416
365	1e+13	NDD	10.373	10.334	-0.0392
439	1e+12	NDD	10.293	10.285	-0.0078
514	5e+12	NDD	10.256	10.243	-0.0134
577	1e+13	NDD	10.312	10.253	-0.0599
634	1e+12	NDD	10.301	10.292	-0.0094
635	5e+12	NDD	10.341	10.297	-0.0438
713	1e+13	NDD	10.336	10.254	-0.0824
732	0	CORRELATION	10.259	10.246	-0.0138
742	0	CORRELATION	10.32	10.292	-0.0282
879	0	CORRELATION	10.296	10.284	-0.0119
880	0	CORRELATION	10.388	10.351	-0.0365

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	10.259	10.316	10.388	0.054186	10.246	10.293	10.351	0.043783	-0.0365	-0.0226	-0.0119	0.011783
1e+12	10.276	10.287	10.301	0.012383	10.254	10.275	10.292	0.017074	-0.0224	-0.01195	-0.0078	0.0069998
5e+12	10.256	10.304	10.341	0.03628	10.243	10.271	10.297	0.025411	-0.0438	-0.032925	-0.0134	0.013841
1e+13	10.283	10.326	10.373	0.038011	10.237	10.27	10.334	0.04364	-0.0824	-0.056875	-0.0392	0.019073

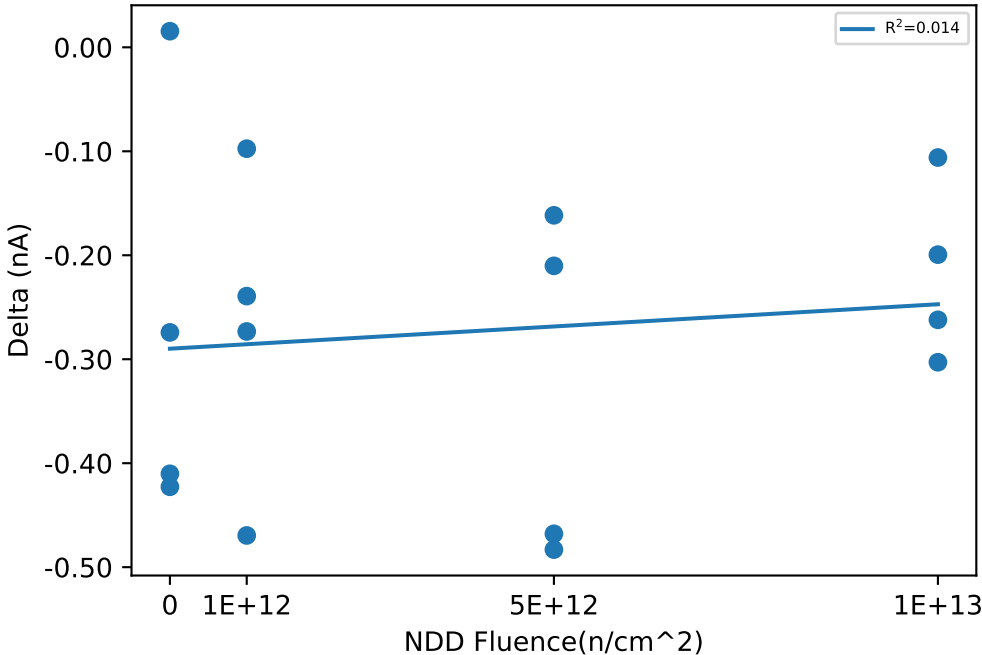
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.0061	-0.4634	-0.4695
229	5e+12	NDD	0.1263	-0.3416	-0.4679
260	1e+13	NDD	0.0705	-0.2324	-0.3029
301	1e+12	NDD	-0.0411	-0.1386	-0.0975
362	5e+12	NDD	0.0841	-0.1261	-0.2102
365	1e+13	NDD	0.1201	-0.0793	-0.1994
439	1e+12	NDD	0.1298	-0.1435	-0.2733
514	5e+12	NDD	0.0181	-0.1435	-0.1616
577	1e+13	NDD	0.0467	-0.0593	-0.106
634	1e+12	NDD	0.1107	-0.1286	-0.2393
635	5e+12	NDD	0.1111	-0.372	-0.4831
713	1e+13	NDD	0.1272	-0.1349	-0.2621
732	0	CORRELATION	0.0311	-0.3916	-0.4227
742	0	CORRELATION	0.0857	-0.1885	-0.2742
879	0	CORRELATION	-0.0443	-0.0288	0.0155
880	0	CORRELATION	0.0654	-0.3448	-0.4102

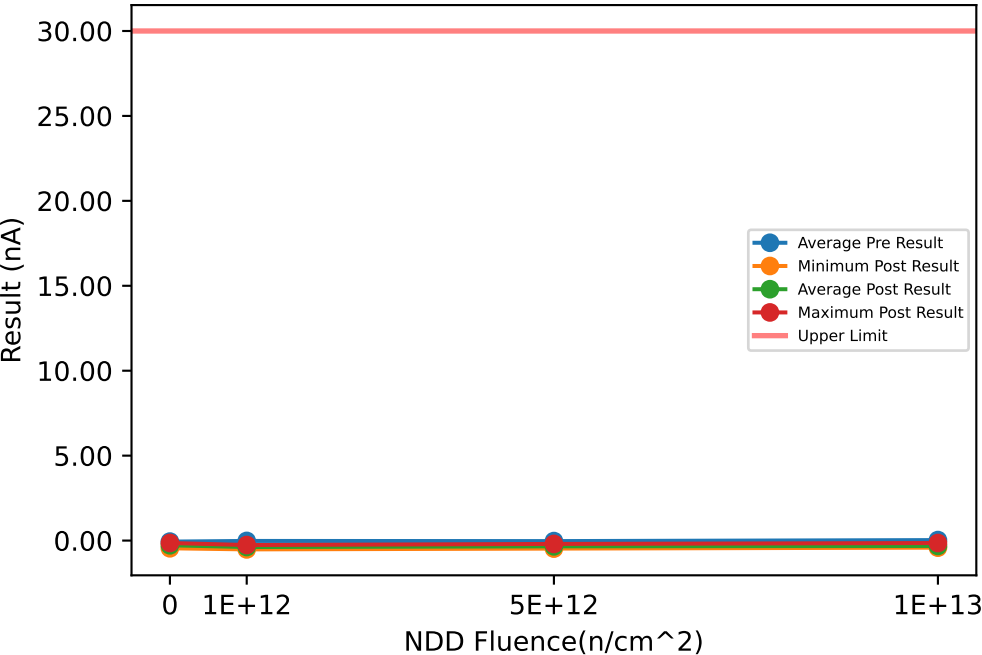
NDD vs Post - Pre Exposure Delta



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	-0.0443	0.034475	0.0857	0.057147	-0.3916	-0.23842	-0.0288	0.16453	-0.4227	-0.2729	0.0155	0.20369
1e+12	-0.0411	0.051375	0.1298	0.082202	-0.4634	-0.21852	-0.1286	0.16337	-0.4695	-0.2699	-0.0975	0.15331
5e+12	0.0181	0.0849	0.1263	0.047831	-0.372	-0.2458	-0.1261	0.12897	-0.4831	-0.3307	-0.1616	0.16849
1e+13	0.0467	0.091125	0.1272	0.038901	-0.2324	-0.12648	-0.0593	0.077522	-0.3029	-0.2176	-0.106	0.085717

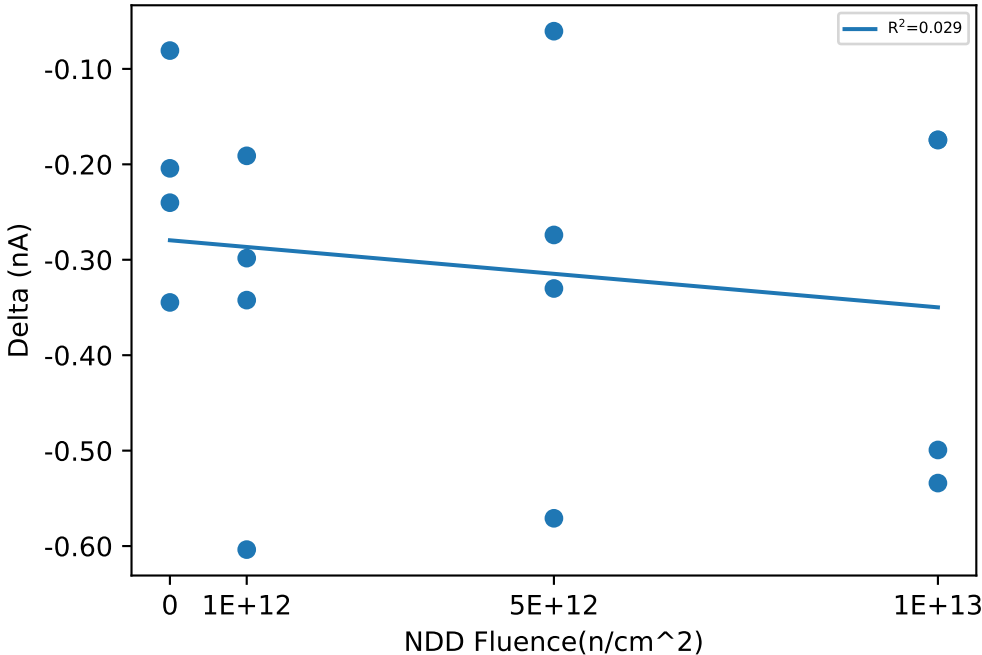
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.0841	-0.5196	-0.6037
229	5e+12	NDD	0.0982	-0.4727	-0.5709
260	1e+13	NDD	0.1174	-0.4166	-0.534
301	1e+12	NDD	-0.0723	-0.2634	-0.1911
362	5e+12	NDD	-0.1374	-0.1979	-0.0605
365	1e+13	NDD	0.0295	-0.1448	-0.1743
439	1e+12	NDD	-0.045	-0.3433	-0.2983
514	5e+12	NDD	-0.0256	-0.3557	-0.3301
577	1e+13	NDD	-0.1374	-0.312	-0.1746
634	1e+12	NDD	-0.0516	-0.3939	-0.3423
635	5e+12	NDD	-0.0575	-0.3315	-0.274
713	1e+13	NDD	0.1054	-0.3939	-0.4993
732	0	CORRELATION	-0.1499	-0.3541	-0.2042
742	0	CORRELATION	-0.0797	-0.1605	-0.0808
879	0	CORRELATION	0.0991	-0.1411	-0.2402
880	0	CORRELATION	-0.1093	-0.454	-0.3447

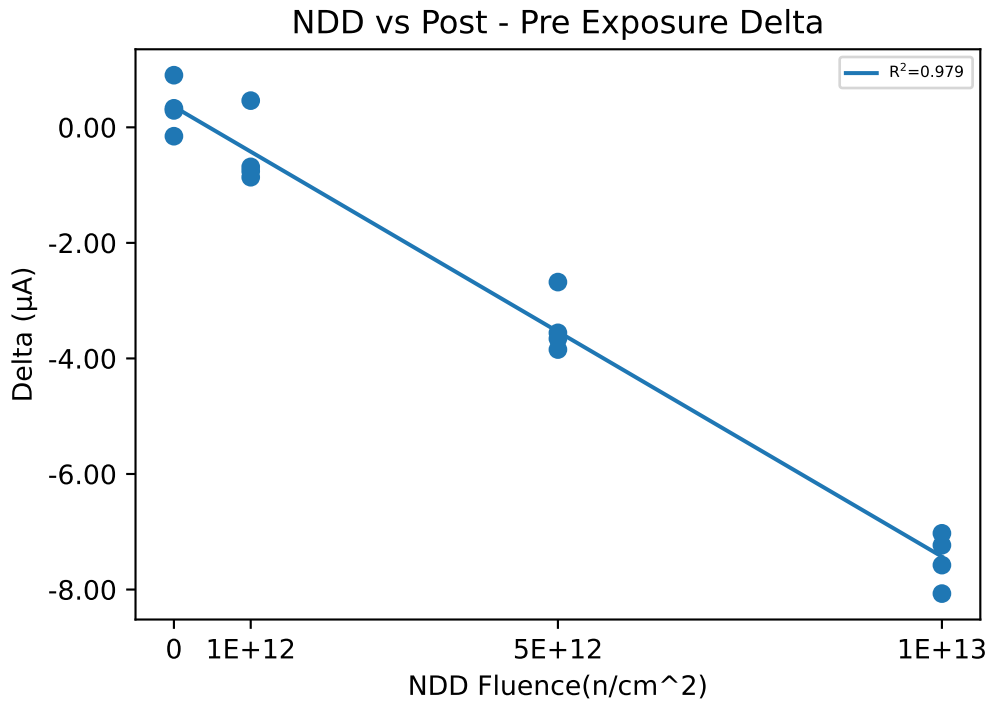
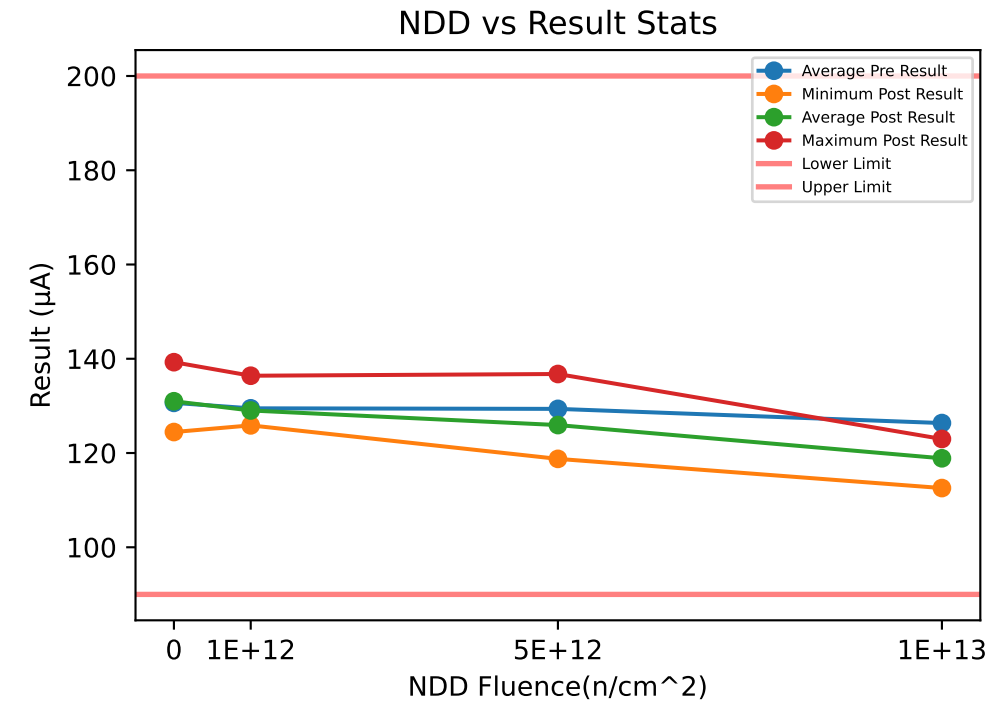
NDD vs Post - Pre Exposure Delta



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	-0.1499	-0.05995	0.0991	0.10987	-0.454	-0.27743	-0.1411	0.152	-0.3447	-0.21748	-0.0808	0.10887
1e+12	-0.0723	-0.0212	0.0841	0.071157	-0.5196	-0.38005	-0.2634	0.10743	-0.6037	-0.35885	-0.1911	0.17515
5e+12	-0.1374	-0.030575	0.0982	0.097885	-0.4727	-0.33945	-0.1979	0.11272	-0.5709	-0.30888	-0.0605	0.20977
1e+13	-0.1374	0.028725	0.1174	0.11739	-0.4166	-0.31683	-0.1448	0.12317	-0.534	-0.34555	-0.1743	0.19808

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

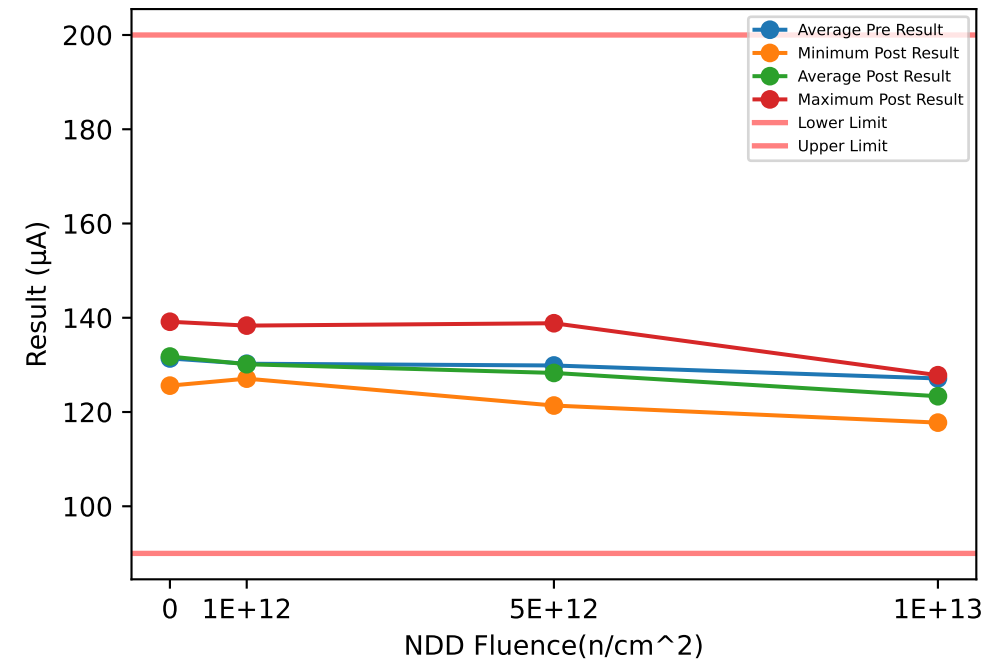


Test Results (Lower Limit = 90.0, Upper Limit = 200.0 (µA))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	127.61	126.85	-0.7586
229	5e+12	NDD	127.43	123.87	-3.5571
260	1e+13	NDD	125.31	117.73	-7.5772
301	1e+12	NDD	137.08	136.4	-0.6845
362	5e+12	NDD	128.17	124.33	-3.8464
365	1e+13	NDD	119.8	112.56	-7.2329
439	1e+12	NDD	126.51	126.98	0.4621
514	5e+12	NDD	122.42	118.76	-3.6581
577	1e+13	NDD	130.31	122.24	-8.0702
634	1e+12	NDD	126.73	125.87	-0.8637
635	5e+12	NDD	139.44	136.77	-2.6786
713	1e+13	NDD	130.01	122.98	-7.0268
732	0	CORRELATION	124.16	124.45	0.2927
742	0	CORRELATION	127.56	127.4	-0.1539
879	0	CORRELATION	132.48	132.81	0.3293
880	0	CORRELATION	138.37	139.27	0.9022

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	124.16	130.64	138.37	6.1816	124.45	130.98	139.27	6.5194	-0.1539	0.34258	0.9022	0.43295
1e+12	126.51	129.48	137.08	5.0887	125.87	129.02	136.4	4.9427	-0.8637	-0.46117	0.4621	0.61989
5e+12	122.42	129.37	139.44	7.1895	118.76	125.93	136.77	7.6523	-3.8464	-3.4351	-2.6786	0.51835
1e+13	119.8	126.36	130.31	4.936	112.56	118.88	122.98	4.8068	-8.0702	-7.4768	-7.0268	0.45614

Device Test: 18.11 ERROR_AMP|STATIC/COMP/5/////@EA_SINK

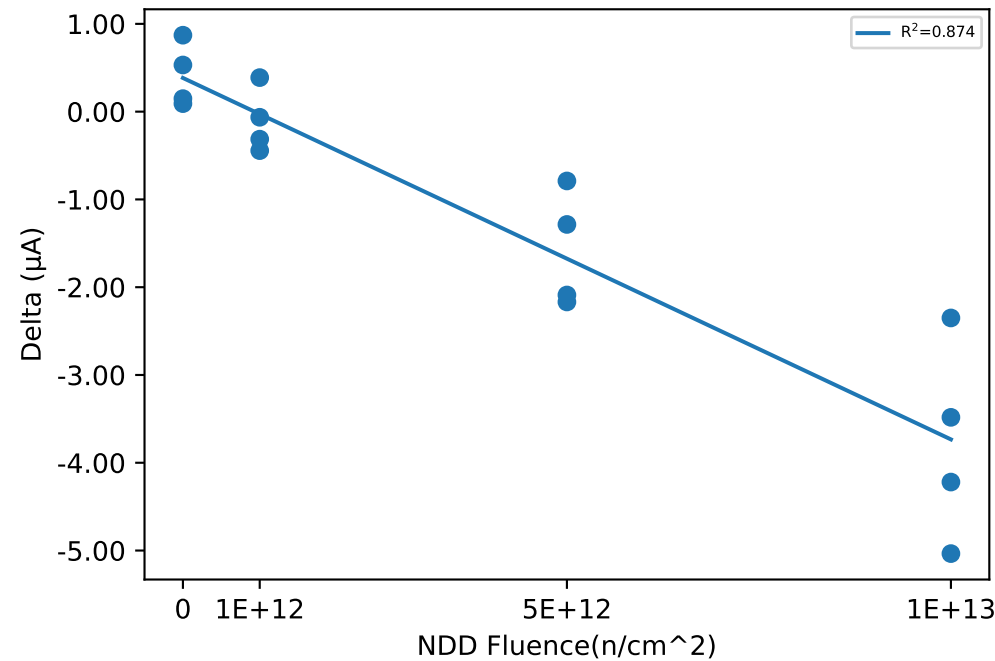
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	128.15	127.7	-0.444
229	5e+12	NDD	126.8	124.71	-2.0887
260	1e+13	NDD	125.96	120.92	-5.0349
301	1e+12	NDD	137.95	138.34	0.3879
362	5e+12	NDD	129.04	128.25	-0.7896
365	1e+13	NDD	120.1	117.75	-2.3503
439	1e+12	NDD	127.39	127.08	-0.3136
514	5e+12	NDD	123.54	121.38	-2.1681
577	1e+13	NDD	131.13	126.91	-4.2199
634	1e+12	NDD	127.5	127.44	-0.064
635	5e+12	NDD	140.12	138.84	-1.2851
713	1e+13	NDD	131.29	127.81	-3.4826
732	0	CORRELATION	125.51	125.6	0.0913
742	0	CORRELATION	128.47	129.34	0.8709
879	0	CORRELATION	132.86	133	0.1482
880	0	CORRELATION	138.62	139.16	0.5315

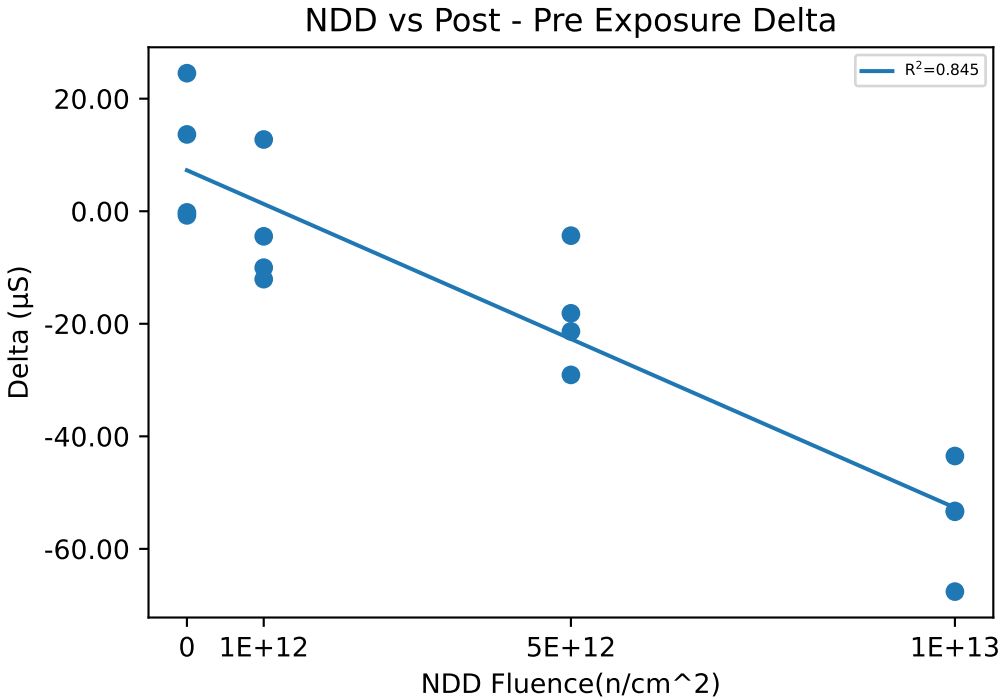
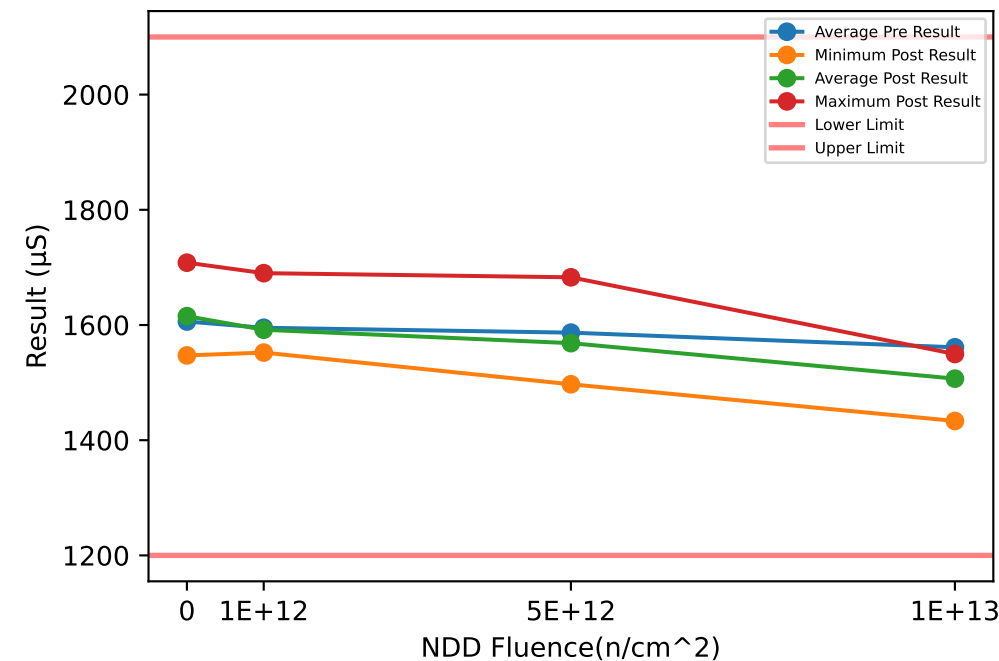
NDD vs Post - Pre Exposure Delta



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	125.51	131.36	138.62	5.7048	125.6	131.77	139.16	5.7758	0.0913	0.41047	0.8709	0.36391
1e+12	127.39	130.25	137.95	5.145	127.08	130.14	138.34	5.4711	-0.444	-0.10843	0.3879	0.36652
5e+12	123.54	129.88	140.12	7.1934	121.38	128.29	138.84	7.5684	-2.1681	-1.5829	-0.7896	0.6624
1e+13	120.1	127.12	131.29	5.2952	117.75	123.35	127.81	4.8242	-5.0349	-3.7719	-2.3503	1.1403

NDD vs Result Stats



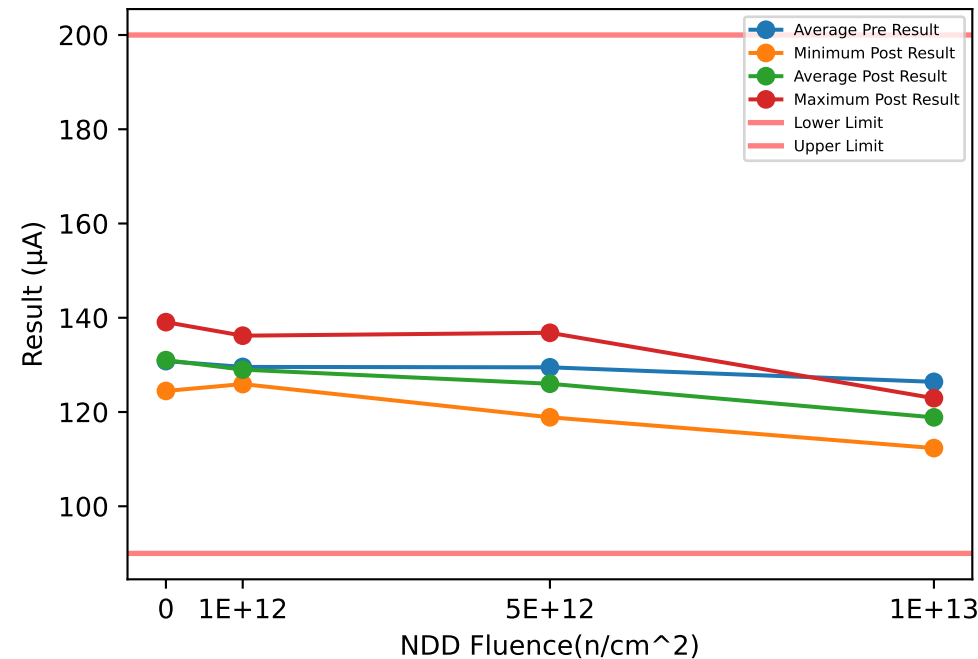
Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (µS))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1560.8	1556.4	-4.4596
229	5e+12	NDD	1557.2	1528.1	-29.083
260	1e+13	NDD	1548.8	1495.5	-53.258
301	1e+12	NDD	1677.2	1690	12.747
362	5e+12	NDD	1584.1	1566	-18.142
365	1e+13	NDD	1476.8	1433.3	-43.498
439	1e+12	NDD	1562.1	1552.1	-10.03
514	5e+12	NDD	1518.4	1497.1	-21.354
577	1e+13	NDD	1603.1	1549.7	-53.408
634	1e+12	NDD	1580.6	1568.5	-12.073
635	5e+12	NDD	1687.1	1682.8	-4.3406
713	1e+13	NDD	1616.5	1548.9	-67.591
732	0	CORRELATION	1547.9	1547.2	-0.7352
742	0	CORRELATION	1558	1582.6	24.529
879	0	CORRELATION	1623.6	1623.4	-0.2043
880	0	CORRELATION	1694.6	1708.2	13.648

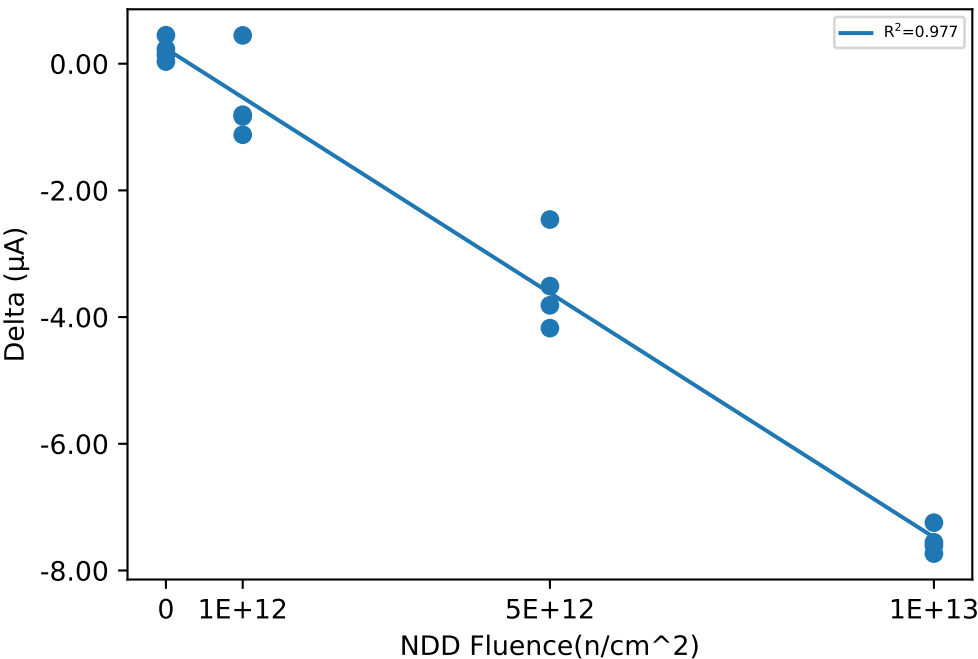
Test Statistics (µS)

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	1547.9	1606	1694.6	67.889	1547.2	1615.3	1708.2	69.303	-0.7352	9.3093	24.529	12.136
1e+12	1560.8	1595.2	1677.2	55.43	1552.1	1591.7	1690	65.859	-12.073	-3.4537	12.747	11.27
5e+12	1518.4	1586.7	1687.1	72.175	1497.1	1568.5	1682.8	81.25	-29.083	-18.23	-4.3406	10.336
1e+13	1476.8	1561.3	1616.5	63.457	1433.3	1506.9	1549.7	55.172	-67.591	-54.439	-43.498	9.9187

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

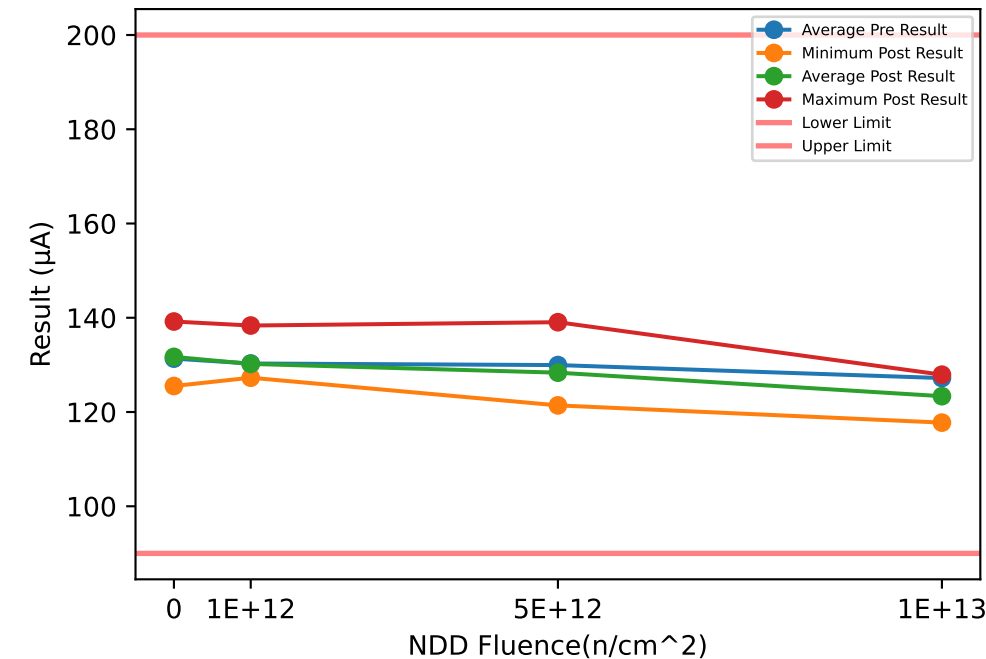
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	127.61	126.8	-0.8053
229	5e+12	NDD	127.57	124.06	-3.5106
260	1e+13	NDD	125.42	117.69	-7.7333
301	1e+12	NDD	137.32	136.2	-1.1219
362	5e+12	NDD	128.41	124.23	-4.1743
365	1e+13	NDD	119.95	112.35	-7.6077
439	1e+12	NDD	126.59	127.04	0.4465
514	5e+12	NDD	122.7	118.88	-3.8143
577	1e+13	NDD	130.05	122.49	-7.5547
634	1e+12	NDD	126.76	125.93	-0.8326
635	5e+12	NDD	139.27	136.81	-2.4601
713	1e+13	NDD	130.18	122.93	-7.2455
732	0	CORRELATION	124.24	124.47	0.2303
742	0	CORRELATION	127.45	127.48	0.0335
879	0	CORRELATION	132.9	133.04	0.1415
880	0	CORRELATION	138.62	139.07	0.4497

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	124.24	130.8	138.62	6.321	124.47	131.01	139.07	6.4378	0.0335	0.21375	0.4497	0.17669
1e+12	126.59	129.57	137.32	5.1847	125.93	128.99	136.2	4.8269	-1.1219	-0.57833	0.4465	0.69807
5e+12	122.7	129.49	139.27	6.9932	118.88	126	136.81	7.626	-4.1743	-3.4898	-2.4601	0.73814
1e+13	119.95	126.4	130.18	4.8339	112.35	118.86	122.93	4.953	-7.7333	-7.5353	-7.2455	0.20721

Device Test: 18.17 ERROR_AMP|STATIC/COMP/12////@EA_SINK

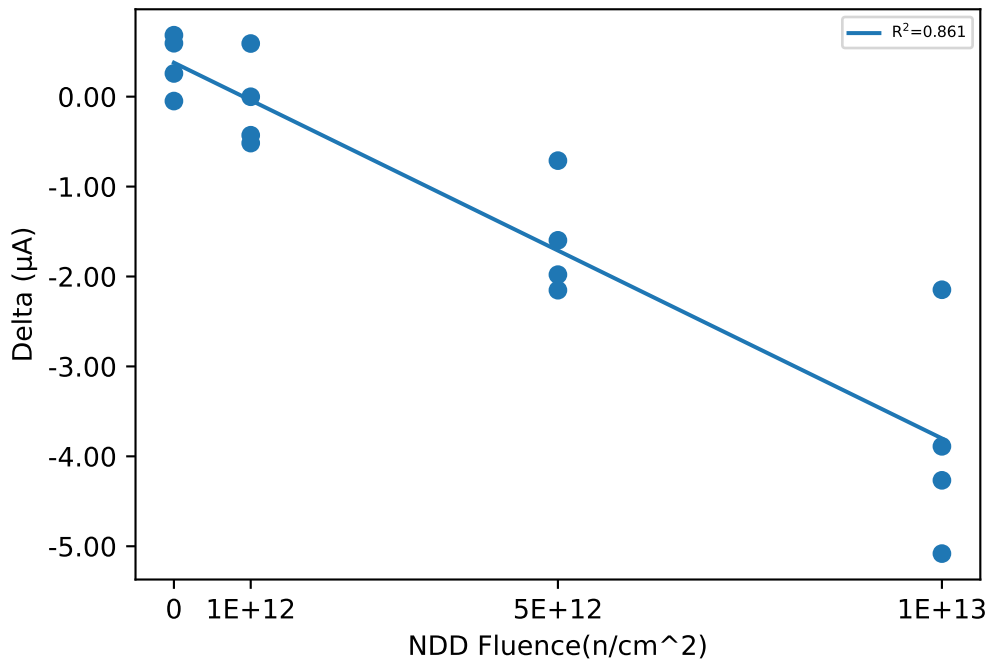
NDD vs Result Stats



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

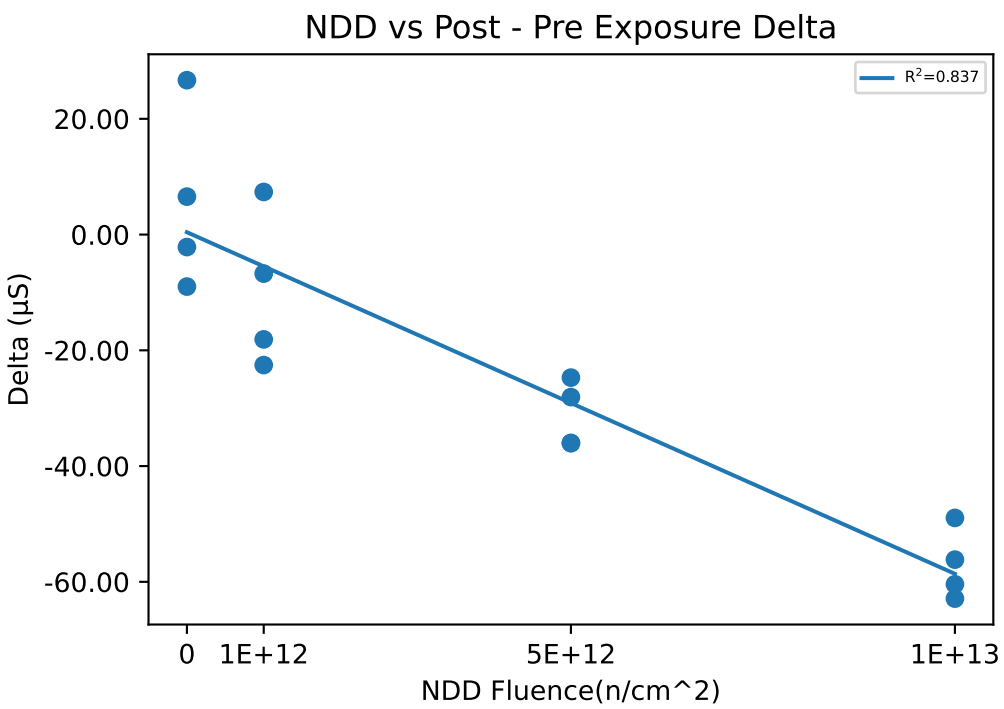
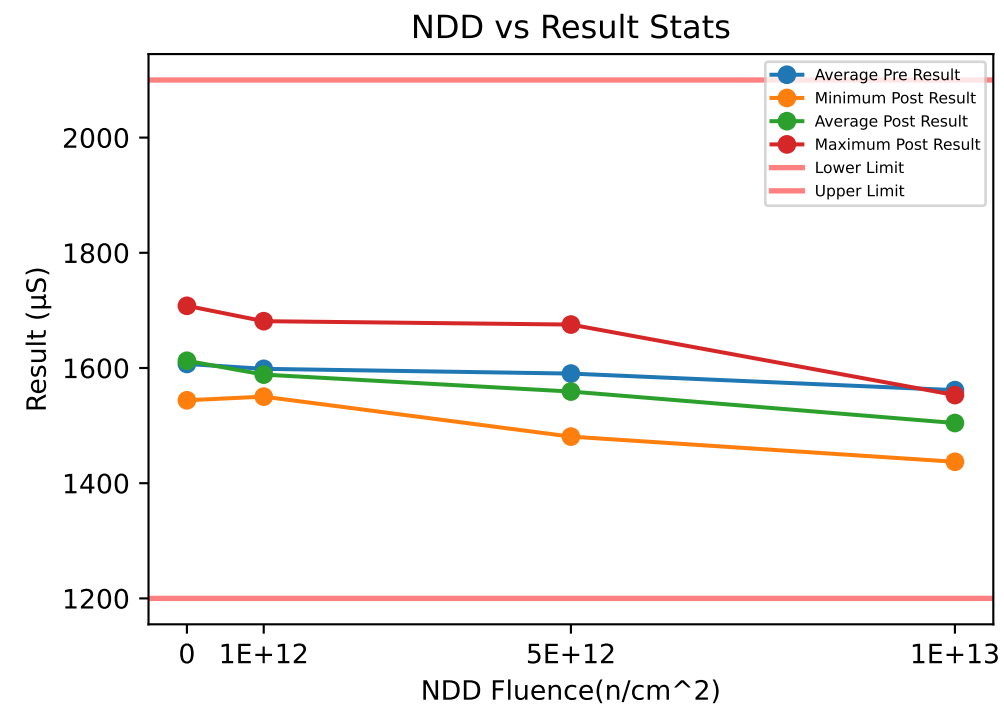
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	128.33	127.9	-0.4289
229	5e+12	NDD	126.7	124.72	-1.9794
260	1e+13	NDD	125.99	120.91	-5.0817
301	1e+12	NDD	137.76	138.35	0.5909
362	5e+12	NDD	128.93	128.22	-0.7115
365	1e+13	NDD	119.9	117.75	-2.1474
439	1e+12	NDD	127.28	127.28	-0.0011
514	5e+12	NDD	123.56	121.41	-2.1525
577	1e+13	NDD	131.13	126.86	-4.2668
634	1e+12	NDD	127.8	127.28	-0.5165
635	5e+12	NDD	140.65	139.05	-1.5977
713	1e+13	NDD	131.81	127.92	-3.8889
732	0	CORRELATION	125.57	125.52	-0.049
742	0	CORRELATION	128.56	129.25	0.6835
879	0	CORRELATION	132.57	132.83	0.2579
880	0	CORRELATION	138.61	139.2	0.5939

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	125.57	131.33	138.61	5.6386	125.52	131.7	139.2	5.825	-0.049	0.37158	0.6835	0.33493
1e+12	127.28	130.29	137.76	4.9965	127.28	130.21	138.35	5.4393	-0.5165	-0.0889	0.5909	0.50606
5e+12	123.56	129.96	140.65	7.4598	121.41	128.35	139.05	7.6581	-2.1525	-1.6103	-0.7115	0.64245
1e+13	119.9	127.21	131.81	5.522	117.75	123.36	127.92	4.8494	-5.0817	-3.8462	-2.1474	1.2371

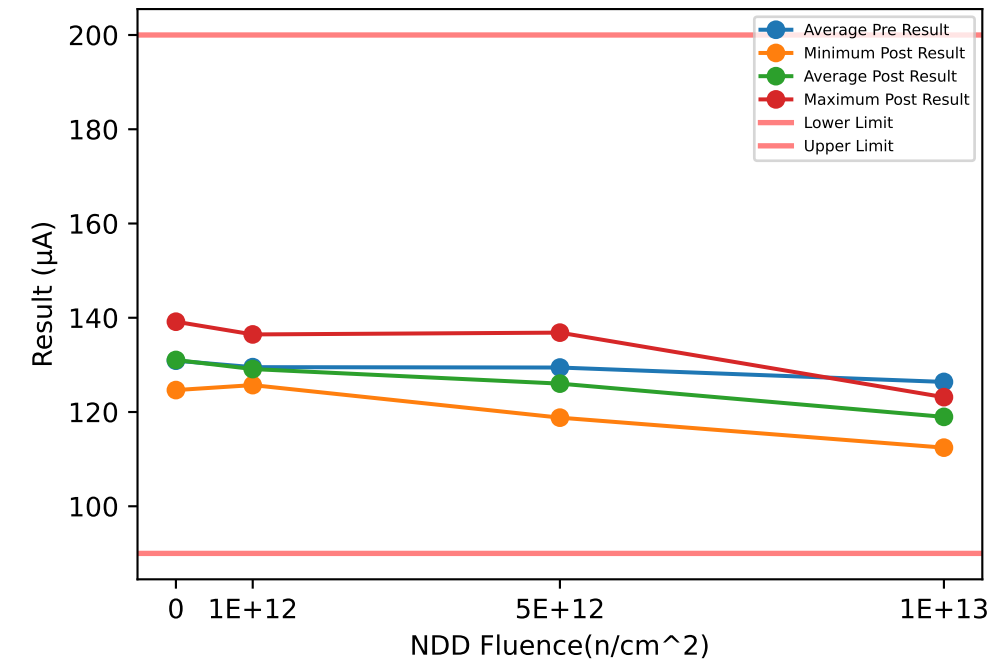


Test Results (Lower Limit = 1200.0, Upper Limit = 2100.0 (μS))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1567.3	1560.5	-6.7421
229	5e+12	NDD	1556.8	1532.1	-24.716
260	1e+13	NDD	1544.3	1488.2	-56.164
301	1e+12	NDD	1673.9	1681.3	7.364
362	5e+12	NDD	1584.1	1548.1	-36.045
365	1e+13	NDD	1486.1	1437.2	-48.957
439	1e+12	NDD	1568.4	1550.3	-18.108
514	5e+12	NDD	1516.9	1480.9	-36.003
577	1e+13	NDD	1602.4	1539.5	-62.897
634	1e+12	NDD	1584.6	1562.1	-22.544
635	5e+12	NDD	1703.5	1675.4	-28.077
713	1e+13	NDD	1613.4	1553	-60.419
732	0	CORRELATION	1546.1	1543.9	-2.1555
742	0	CORRELATION	1566.3	1572.9	6.5565
879	0	CORRELATION	1634.4	1625.5	-8.9865
880	0	CORRELATION	1681.3	1707.9	26.675

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	1546.1	1607	1681.3	62.276	1543.9	1612.6	1707.9	71.994	-8.9865	5.5223	26.675	15.47
1e+12	1567.3	1598.5	1673.9	50.863	1550.3	1588.5	1681.3	62.042	-22.544	-10.008	7.364	13.357
5e+12	1516.9	1590.3	1703.5	80.341	1480.9	1559.1	1675.4	82.665	-36.045	-31.21	-24.716	5.7253
1e+13	1486.1	1561.6	1613.4	58.714	1437.2	1504.5	1553	52.838	-62.897	-57.109	-48.957	6.105

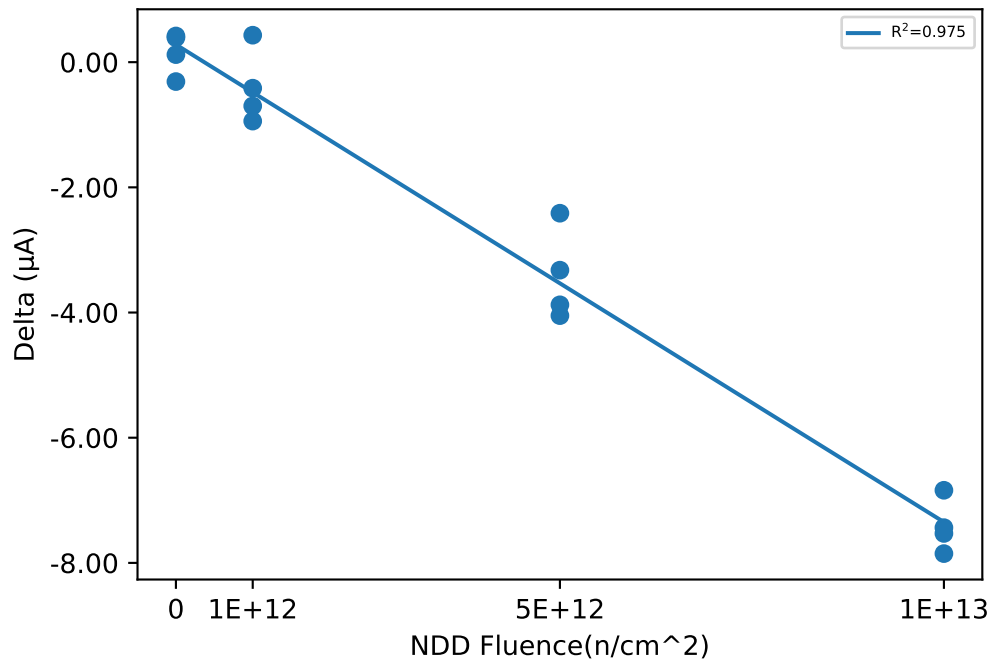
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	127.61	127.19	-0.4157
229	5e+12	NDD	127.37	124.05	-3.3231
260	1e+13	NDD	125.33	117.89	-7.437
301	1e+12	NDD	137.16	136.46	-0.7001
362	5e+12	NDD	128.45	124.4	-4.0494
365	1e+13	NDD	119.97	112.44	-7.5296
439	1e+12	NDD	126.66	127.09	0.4308
514	5e+12	NDD	122.68	118.8	-3.8768
577	1e+13	NDD	130.25	122.4	-7.8514
634	1e+12	NDD	126.65	125.71	-0.9416
635	5e+12	NDD	139.26	136.84	-2.4133
713	1e+13	NDD	129.99	123.15	-6.8397
732	0	CORRELATION	124.53	124.65	0.1205
742	0	CORRELATION	127.71	127.4	-0.31
879	0	CORRELATION	132.57	132.96	0.3916
880	0	CORRELATION	138.74	139.16	0.4183

NDD vs Post - Pre Exposure Delta

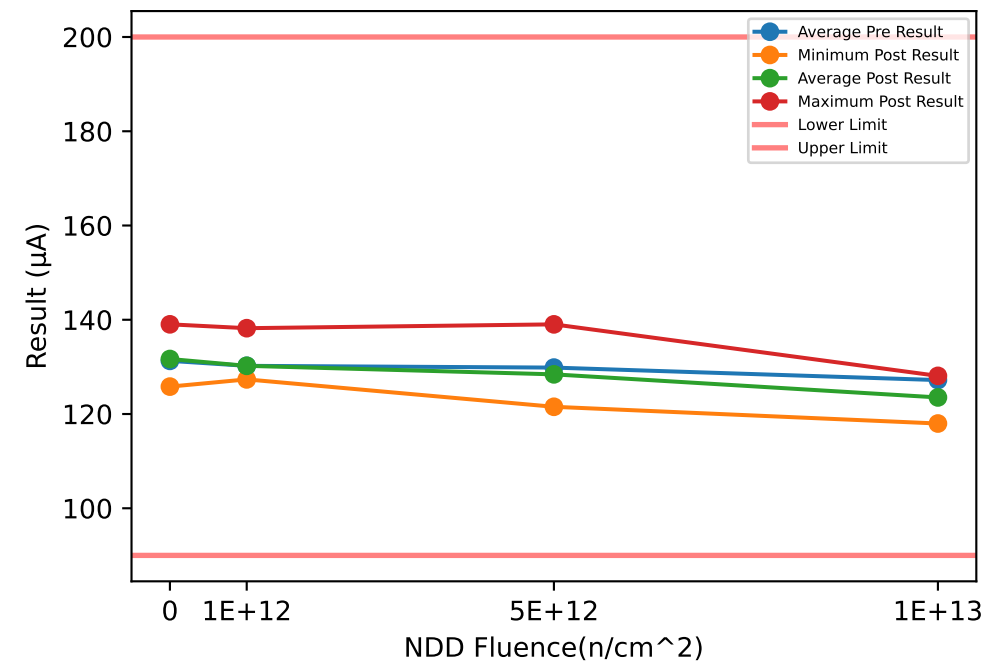


Test Statistics (µA)

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	124.53	130.89	138.74	6.1918	124.65	131.05	139.16	6.4209	-0.31	0.1551	0.4183	0.33799
1e+12	126.65	129.52	137.16	5.1152	125.71	129.11	136.46	4.946	-0.9416	-0.40665	0.4308	0.59824
5e+12	122.68	129.44	139.26	7.0079	118.8	126.02	136.84	7.6538	-4.0494	-3.4156	-2.4133	0.73656
1e+13	119.97	126.38	130.25	4.8383	112.44	118.97	123.15	4.9348	-7.8514	-7.4144	-6.8397	0.42231

Device Test: 18.23 ERROR_AMP|STATIC/COMP/14////@EA_SINK

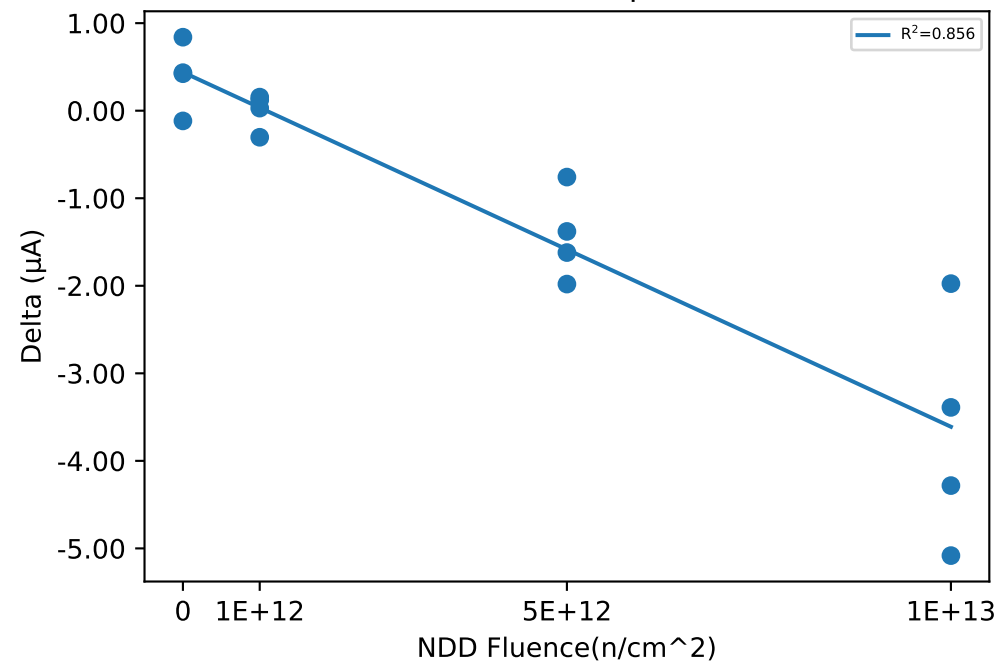
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	127.99	127.69	-0.3034
229	5e+12	NDD	126.42	124.8	-1.6205
260	1e+13	NDD	126.24	121.16	-5.0822
301	1e+12	NDD	138.09	138.21	0.1223
362	5e+12	NDD	129.07	128.31	-0.7583
365	1e+13	NDD	119.96	117.98	-1.9755
439	1e+12	NDD	127.19	127.35	0.1551
514	5e+12	NDD	123.51	121.53	-1.9806
577	1e+13	NDD	131.13	126.85	-4.2824
634	1e+12	NDD	127.63	127.66	0.0295
635	5e+12	NDD	140.4	139.02	-1.3791
713	1e+13	NDD	131.48	128.09	-3.3893
732	0	CORRELATION	125.38	125.82	0.4345
742	0	CORRELATION	128.39	129.23	0.8396
879	0	CORRELATION	132.73	132.61	-0.1167
880	0	CORRELATION	138.61	139.03	0.4225

NDD vs Post - Pre Exposure Delta

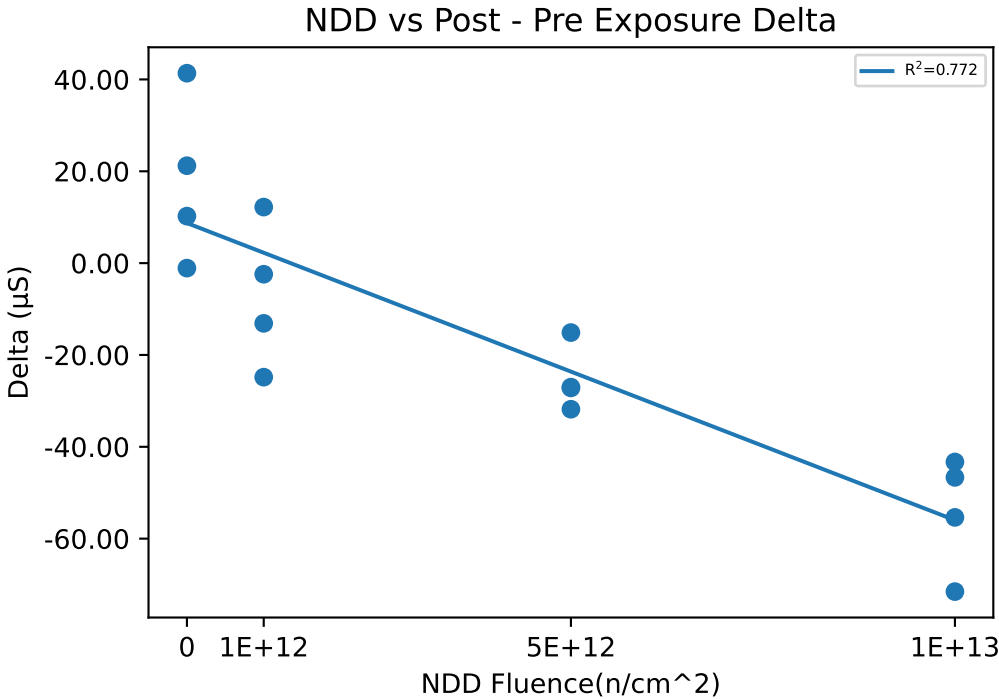
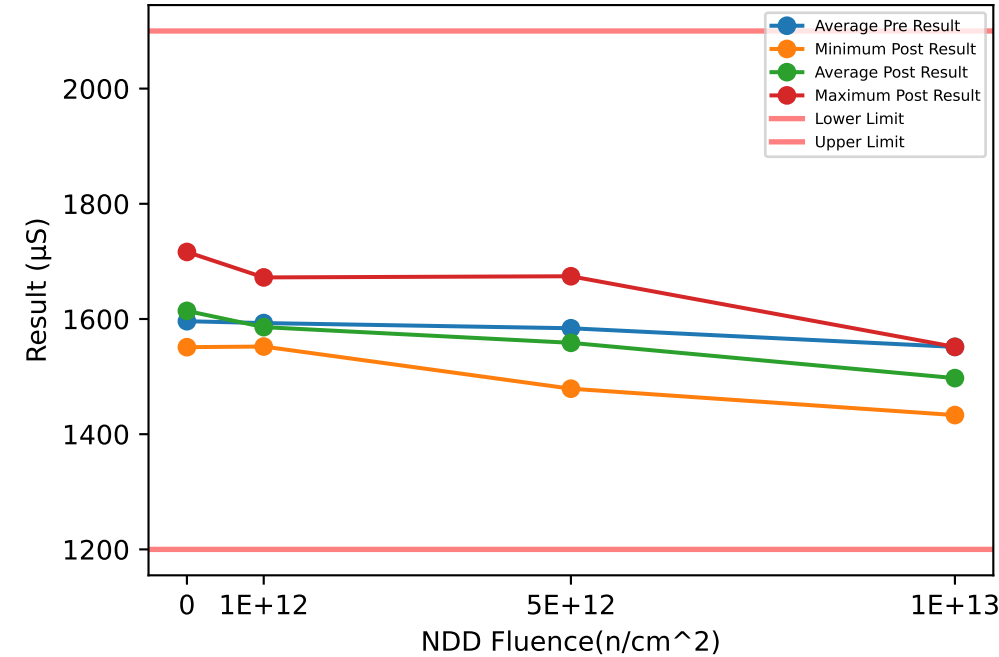


Test Statistics (µA)

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	125.38	131.28	138.61	5.7434	125.82	131.67	139.03	5.6363	-0.1167	0.39497	0.8396	0.39235
1e+12	127.19	130.22	138.09	5.2538	127.35	130.22	138.21	5.3268	-0.3034	0.000875	0.1551	0.20971
5e+12	123.51	129.85	140.4	7.3906	121.53	128.42	139.02	7.593	-1.9806	-1.4346	-0.7583	0.51418
1e+13	119.96	127.2	131.48	5.3885	117.98	123.52	128.09	4.7679	-5.0822	-3.6823	-1.9755	1.3315

Device Test: 18.3 EA|STATIC/COMP/4.5////@EA_GM

NDD vs Result Stats



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

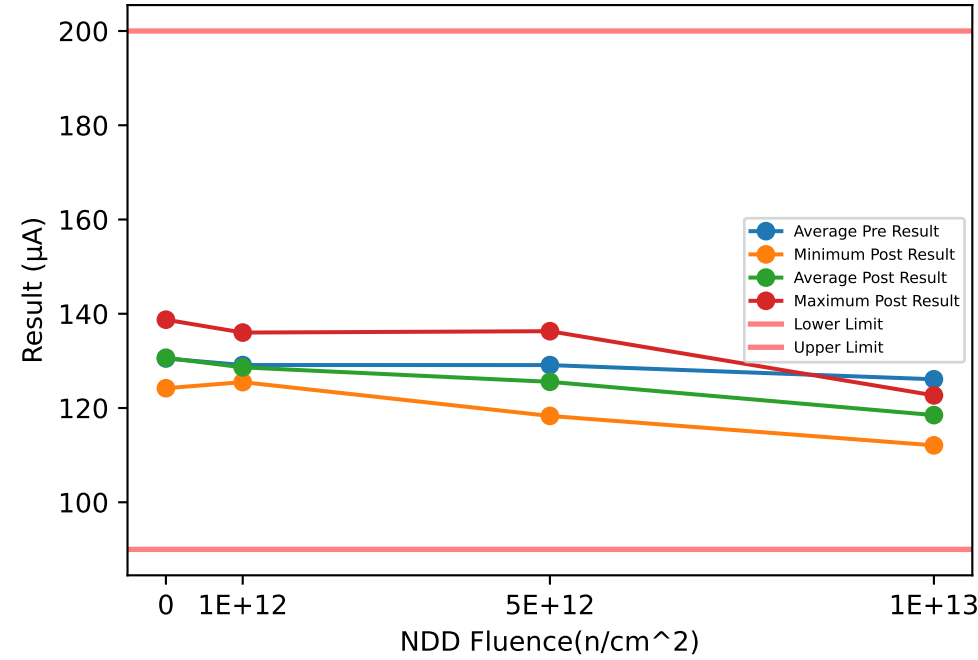
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1567.7	1554.5	-13.117
229	5e+12	NDD	1559.3	1532.1	-27.176
260	1e+13	NDD	1535.7	1480.3	-55.372
301	1e+12	NDD	1674.6	1672.2	-2.4202
362	5e+12	NDD	1576.3	1549.3	-27.008
365	1e+13	NDD	1479.8	1433.2	-46.659
439	1e+12	NDD	1552.5	1564.7	12.206
514	5e+12	NDD	1510.8	1479	-31.819
577	1e+13	NDD	1595.9	1524.4	-71.531
634	1e+12	NDD	1577	1552.2	-24.832
635	5e+12	NDD	1689.3	1674.2	-15.121
713	1e+13	NDD	1594.9	1551.6	-43.304
732	0	CORRELATION	1540.8	1551.1	10.235
742	0	CORRELATION	1552.9	1574.1	21.214
879	0	CORRELATION	1615.9	1614.8	-1.0887
880	0	CORRELATION	1675	1716.4	41.359

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	1540.8	1596.2	1675	62.026	1551.1	1614.1	1716.4	73.114	-1.0887	17.93	41.359	18.08
1e+12	1552.5	1592.9	1674.6	55.381	1552.2	1585.9	1672.2	57.785	-24.832	-7.0409	12.206	15.761
5e+12	1510.8	1583.9	1689.3	75.54	1479	1558.6	1674.2	82.641	-31.819	-25.281	-15.121	7.1305
1e+13	1479.8	1551.6	1595.9	55.495	1433.2	1497.4	1551.6	51.891	-71.531	-54.217	-43.304	12.614

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

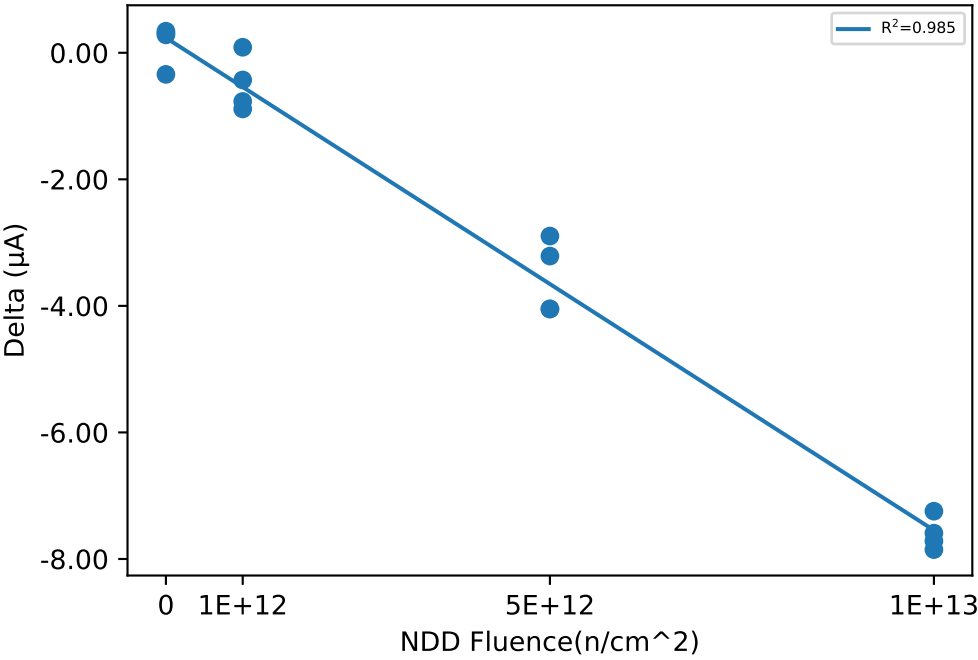
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	126.8	126.37	-0.4296
229	5e+12	NDD	126.79	123.58	-3.213
260	1e+13	NDD	125.19	117.47	-7.7172
301	1e+12	NDD	136.9	136.01	-0.8875
362	5e+12	NDD	128.08	124.03	-4.0495
365	1e+13	NDD	119.67	112.08	-7.5922
439	1e+12	NDD	126.53	126.62	0.087
514	5e+12	NDD	122.37	118.32	-4.0488
577	1e+13	NDD	129.61	121.76	-7.8518
634	1e+12	NDD	126.26	125.49	-0.7696
635	5e+12	NDD	139.19	136.3	-2.8966
713	1e+13	NDD	129.93	122.68	-7.245
732	0	CORRELATION	123.89	124.2	0.3089
742	0	CORRELATION	127.34	127	-0.3414
879	0	CORRELATION	132.41	132.7	0.2827
880	0	CORRELATION	138.4	138.74	0.341

NDD vs Post - Pre Exposure Delta

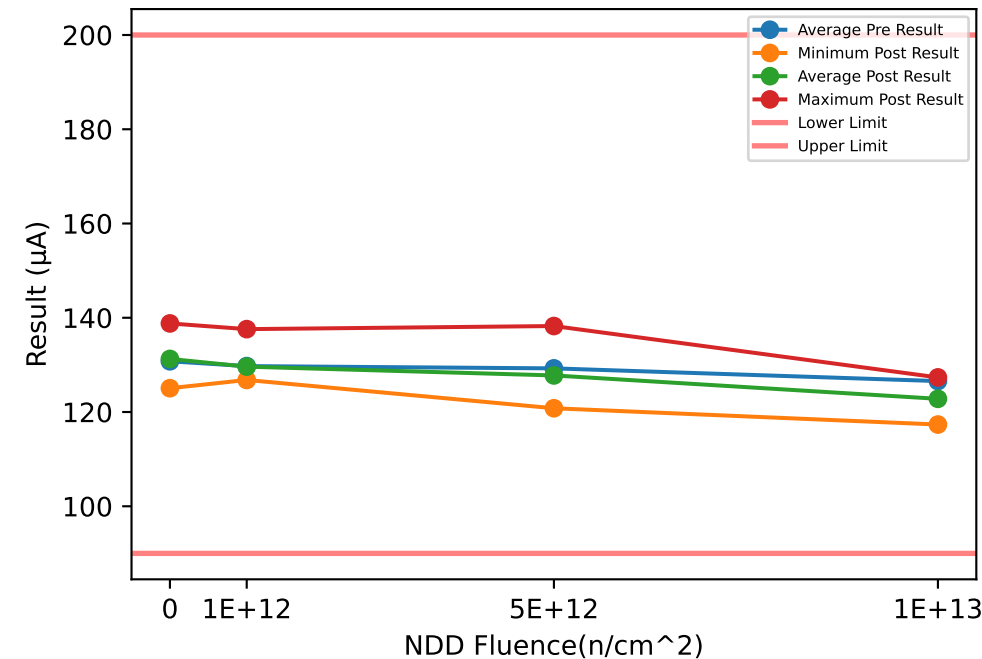


Test Statistics (µA)

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	123.89	130.51	138.4	6.3176	124.2	130.66	138.74	6.4444	-0.3414	0.1478	0.341	0.327
1e+12	126.26	129.12	136.9	5.1883	125.49	128.62	136.01	4.9489	-0.8875	-0.49992	0.087	0.43679
5e+12	122.37	129.11	139.19	7.1554	118.32	125.56	136.3	7.616	-4.0495	-3.552	-2.8966	0.58844
1e+13	119.67	126.1	129.93	4.8003	112.08	118.5	122.68	4.8441	-7.8518	-7.6015	-7.245	0.26027

Device Test: 18.5 ERROR_AMP|STATIC/COMP/4.5////@EA_SINK

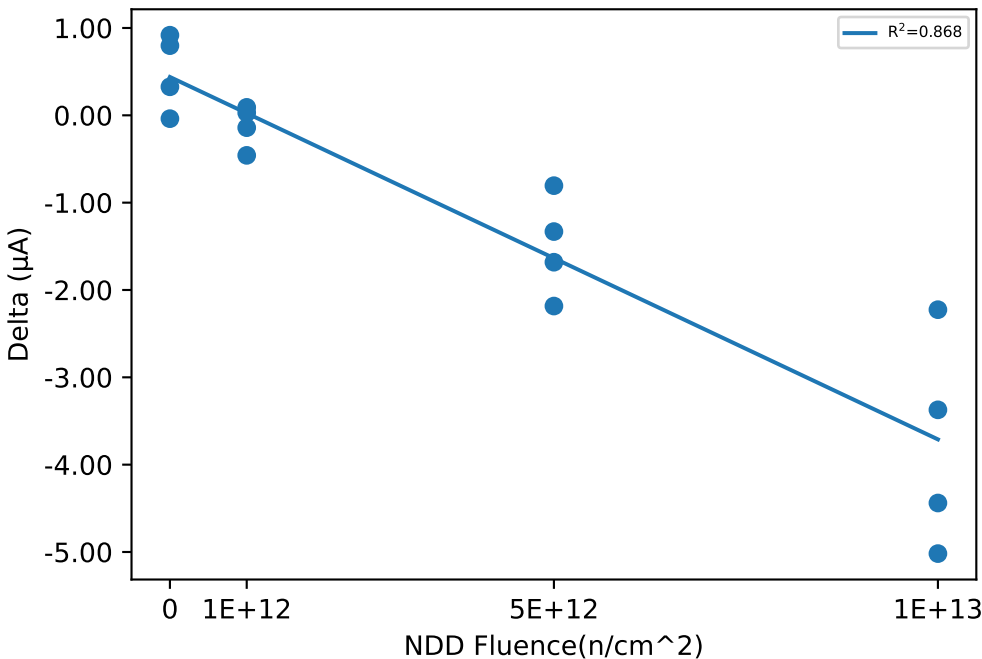
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	127.6	127.14	-0.4585
229	5e+12	NDD	125.99	124.3	-1.682
260	1e+13	NDD	125.5	120.49	-5.0184
301	1e+12	NDD	137.5	137.59	0.0911
362	5e+12	NDD	128.5	127.7	-0.8053
365	1e+13	NDD	119.57	117.34	-2.2256
439	1e+12	NDD	126.77	126.8	0.0297
514	5e+12	NDD	122.98	120.8	-2.1839
577	1e+13	NDD	130.47	126.03	-4.4391
634	1e+12	NDD	127.11	126.97	-0.1415
635	5e+12	NDD	139.57	138.24	-1.3311
713	1e+13	NDD	130.72	127.34	-3.3723
732	0	CORRELATION	124.73	125.05	0.3267
742	0	CORRELATION	127.83	128.75	0.9174
879	0	CORRELATION	132.5	132.46	-0.0383
880	0	CORRELATION	138	138.8	0.7977

NDD vs Post - Pre Exposure Delta

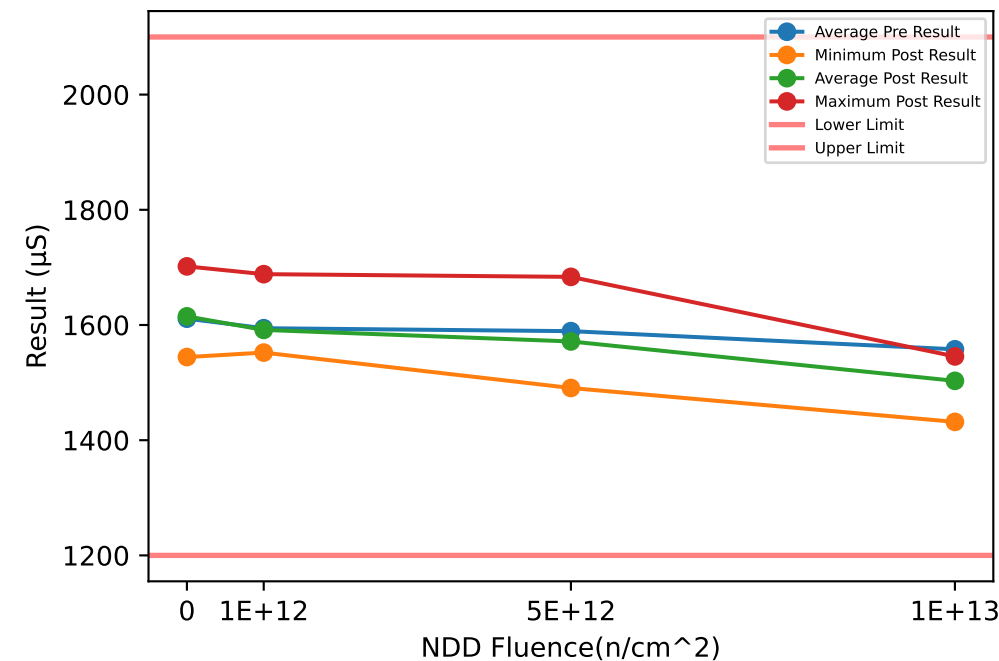


Test Statistics (µA)

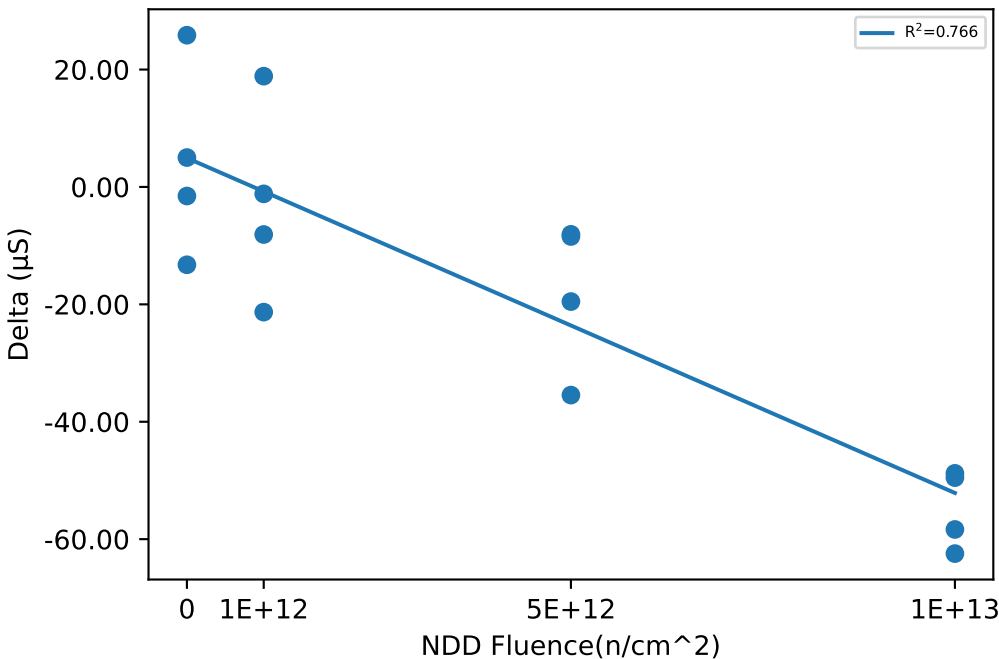
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	124.73	130.76	138	5.7861	125.05	131.26	138.8	5.8625	-0.0383	0.50088	0.9174	0.4407
1e+12	126.77	129.74	137.5	5.1793	126.8	129.62	137.59	5.3105	-0.4585	-0.1198	0.0911	0.24632
5e+12	122.98	129.26	139.57	7.2363	120.8	127.76	138.24	7.5348	-2.1839	-1.5006	-0.8053	0.5808
1e+13	119.57	126.57	130.72	5.246	117.34	122.8	127.34	4.6983	-5.0184	-3.7638	-2.2256	1.2314

Device Test: 18.9 EA|STATIC/COMP/5////@EA_GM

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



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

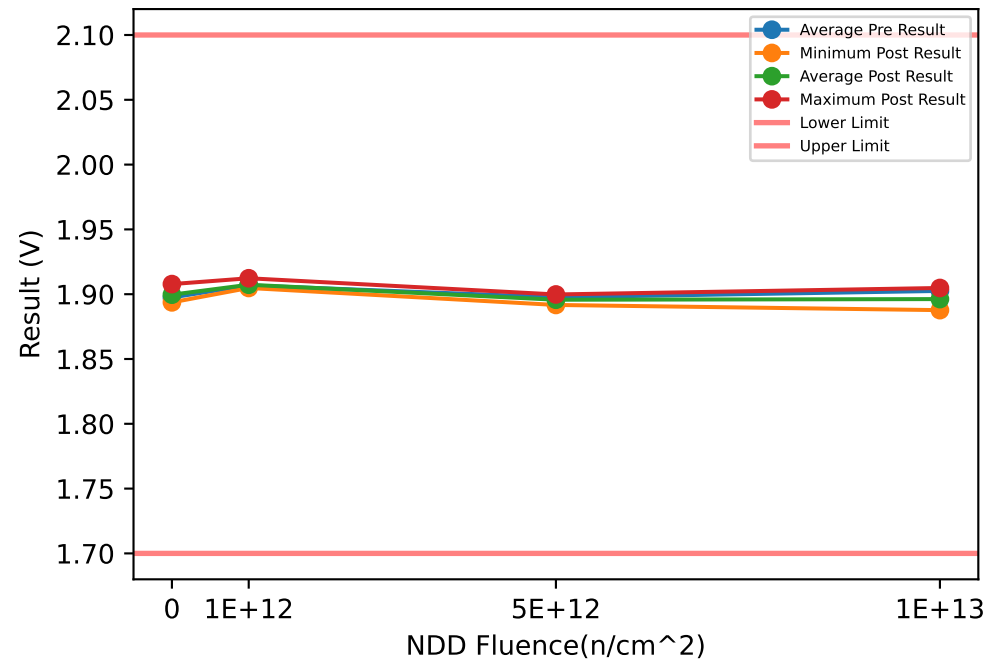
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1576.1	1554.7	-21.324
229	5e+12	NDD	1557.2	1537.7	-19.524
260	1e+13	NDD	1540.9	1492.1	-48.788
301	1e+12	NDD	1669.4	1688.3	18.873
362	5e+12	NDD	1582	1573.9	-8.0734
365	1e+13	NDD	1481.3	1431.8	-49.517
439	1e+12	NDD	1553.3	1552.1	-1.1783
514	5e+12	NDD	1526.1	1490.6	-35.457
577	1e+13	NDD	1601.1	1542.8	-58.348
634	1e+12	NDD	1578.9	1570.8	-8.101
635	5e+12	NDD	1692	1683.6	-8.4385
713	1e+13	NDD	1607.9	1545.4	-62.46
732	0	CORRELATION	1545.9	1544.3	-1.5439
742	0	CORRELATION	1565.5	1591.3	25.852
879	0	CORRELATION	1635.8	1622.5	-13.257
880	0	CORRELATION	1696.8	1701.8	5.0084

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	1545.9	1611	1696.8	68.994	1544.3	1615	1701.8	66.177	-13.257	4.0149	25.852	16.402
1e+12	1553.3	1594.4	1669.4	51.285	1552.1	1591.5	1688.3	65.051	-21.324	-2.9324	18.873	16.768
5e+12	1526.1	1589.3	1692	72.169	1490.6	1571.4	1683.6	82.149	-35.457	-17.873	-8.0734	12.871
1e+13	1481.3	1557.8	1607.9	59.229	1431.8	1503	1545.4	53.458	-62.46	-54.778	-48.788	6.7158

Device Test: 22.1 LEVEL|RISE/COMP/4.5////@V_COMP_SD

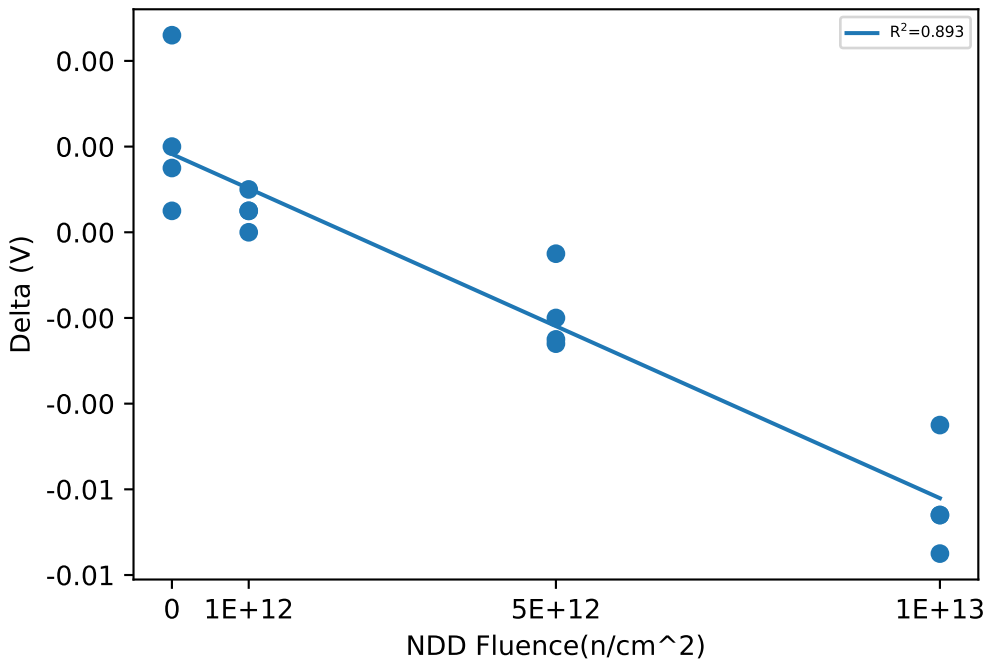
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.9058	1.9068	0.001
229	5e+12	NDD	1.9018	1.8998	-0.002
260	1e+13	NDD	1.9123	1.9048	-0.0075
301	1e+12	NDD	1.9118	1.9123	0.0005
362	5e+12	NDD	1.8998	1.8972	-0.0026
365	1e+13	NDD	1.9033	1.8967	-0.0066
439	1e+12	NDD	1.9048	1.9048	0
514	5e+12	NDD	1.8947	1.8942	-0.0005
577	1e+13	NDD	1.8922	1.8877	-0.0045
634	1e+12	NDD	1.9048	1.9053	0.0005
635	5e+12	NDD	1.8942	1.8917	-0.0025
713	1e+13	NDD	1.9023	1.8957	-0.0066
732	0	CORRELATION	1.8922	1.8937	0.0015
742	0	CORRELATION	1.8972	1.8977	0.0005
879	0	CORRELATION	1.8947	1.8993	0.0046
880	0	CORRELATION	1.9058	1.9078	0.002

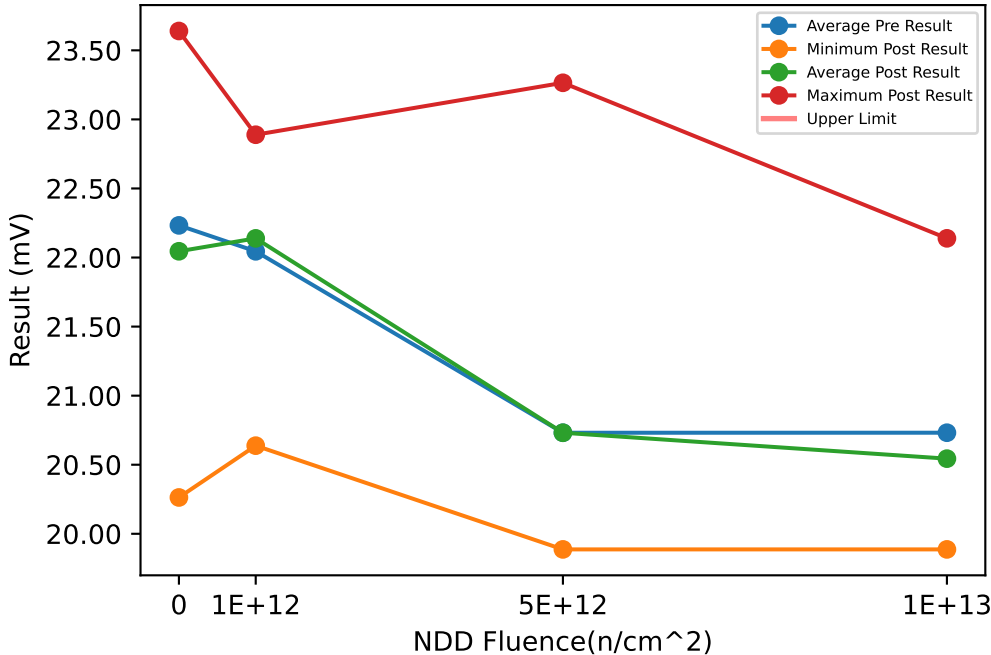
NDD vs Post - Pre Exposure Delta



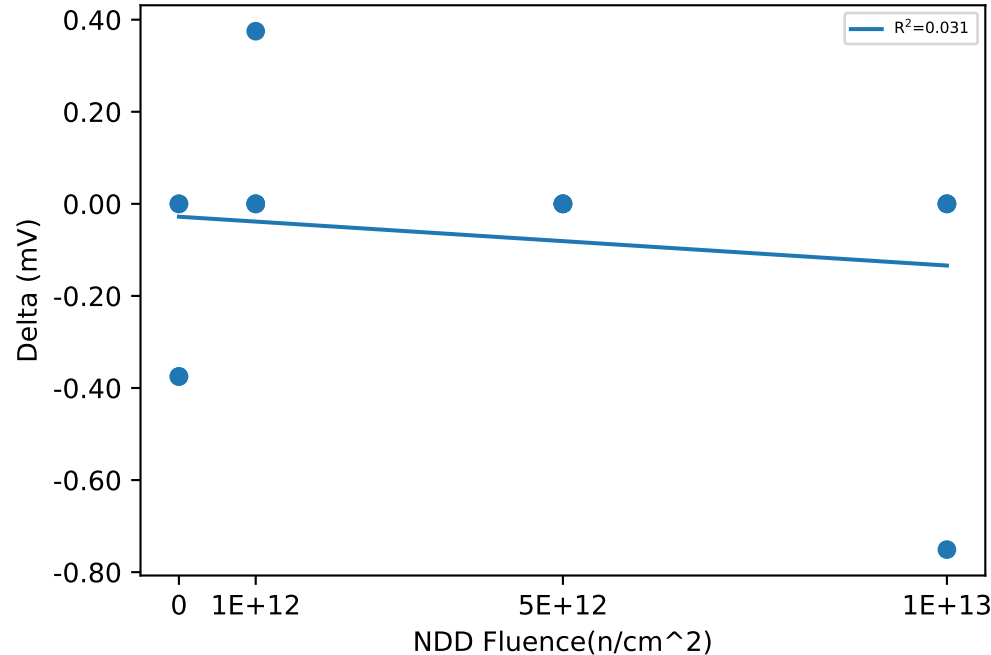
Test Statistics (V)

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	1.8922	1.8975	1.9058	0.0059135	1.8937	1.8996	1.9078	0.0059371	0.0005	0.00215	0.0046	0.0017483
1e+12	1.9048	1.9068	1.9118	0.0033665	1.9048	1.9073	1.9123	0.00344	0	0.0005	0.001	0.00040825
5e+12	1.8942	1.8976	1.9018	0.0037615	1.8917	1.8957	1.8998	0.0035264	-0.0026	-0.0019	-0.0005	0.00096954
1e+13	1.8922	1.9025	1.9123	0.0082221	1.8877	1.8962	1.9048	0.006993	-0.0075	-0.0063	-0.0045	0.0012728

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (mV))

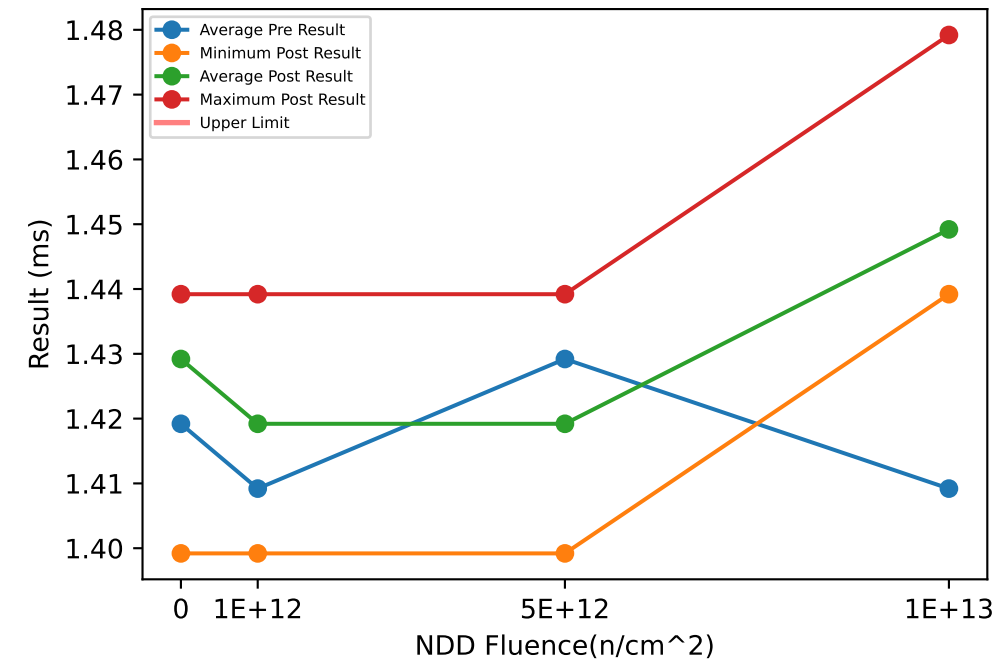
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	22.889	22.889	0
229	5e+12	NDD	19.887	19.887	0
260	1e+13	NDD	19.887	19.887	0
301	1e+12	NDD	22.139	22.139	0
362	5e+12	NDD	19.887	19.887	0
365	1e+13	NDD	20.638	19.887	-0.751
439	1e+12	NDD	20.263	20.638	0.375
514	5e+12	NDD	19.887	19.887	0
577	1e+13	NDD	20.263	20.263	0
634	1e+12	NDD	22.889	22.889	0
635	5e+12	NDD	23.265	23.265	0
713	1e+13	NDD	22.139	22.139	0
732	0	CORRELATION	22.139	22.139	0
742	0	CORRELATION	20.638	20.263	-0.375
879	0	CORRELATION	24.015	23.64	-0.375
880	0	CORRELATION	22.139	22.139	0

Test Statistics (mV)

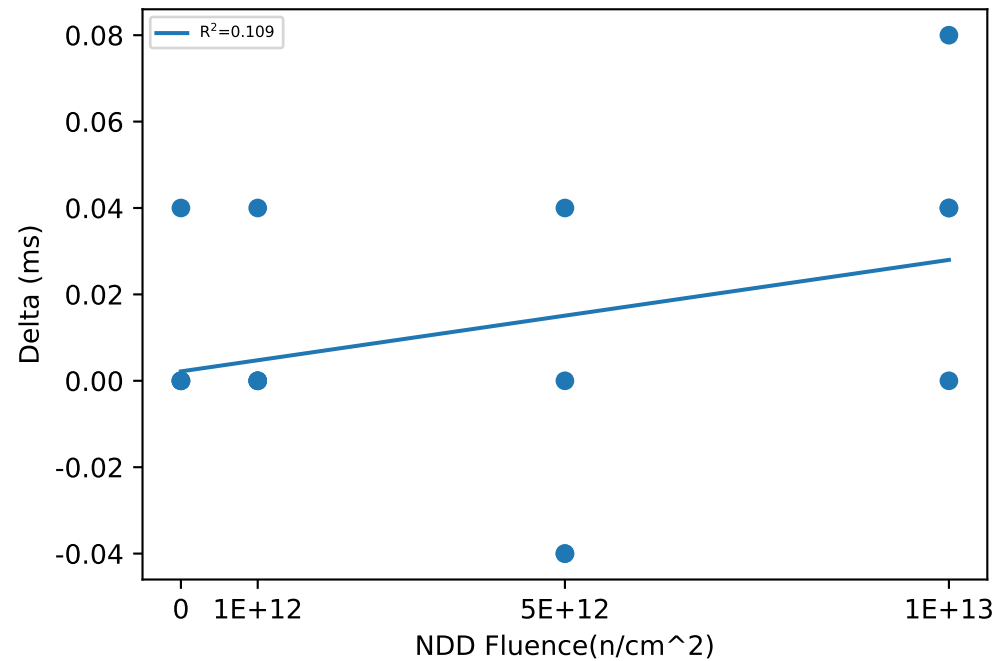
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	20.638	22.233	24.015	1.3829	20.263	22.045	23.64	1.3829	-0.375	-0.1875	0	0.21651
1e+12	20.263	22.045	22.889	1.2395	20.638	22.139	22.889	1.0611	0	0.09375	0.375	0.1875
5e+12	19.887	20.732	23.265	1.689	19.887	20.732	23.265	1.689	0	0	0	0
1e+13	19.887	20.732	22.139	0.98699	19.887	20.544	22.139	1.078	-0.751	-0.18775	0	0.3755

Device Test: 22.11 TIMING|STARTUP/SS_TR/5/////@T_SS_5P6NF

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (ms))

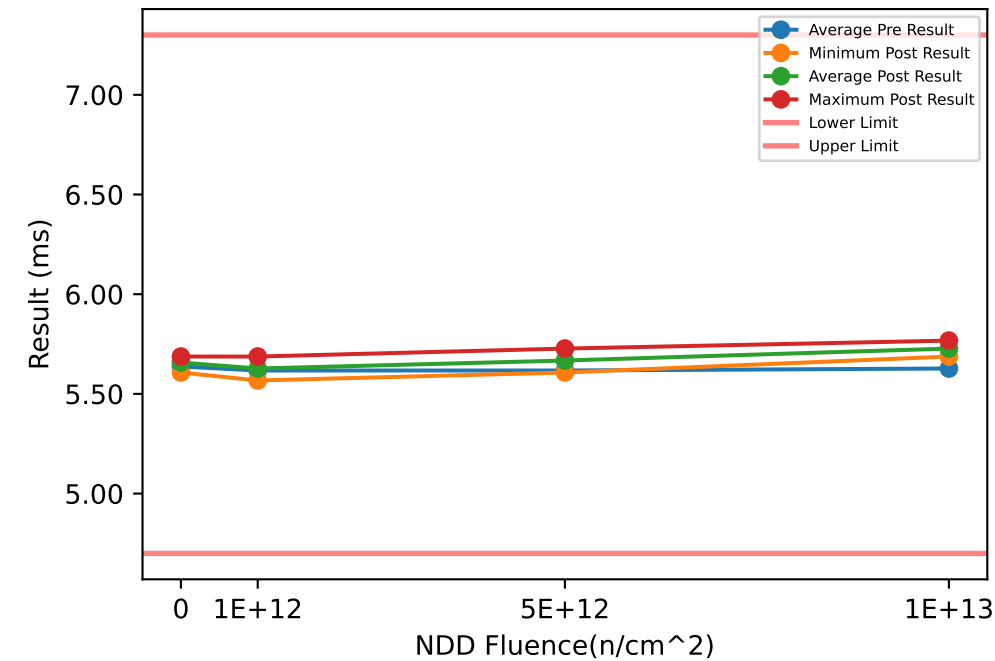
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.3992	1.3992	0
229	5e+12	NDD	1.4392	1.3992	-0.04
260	1e+13	NDD	1.3992	1.4392	0.04
301	1e+12	NDD	1.3992	1.4392	0.04
362	5e+12	NDD	1.3992	1.4392	0.04
365	1e+13	NDD	1.3992	1.4792	0.08
439	1e+12	NDD	1.3992	1.3992	0
514	5e+12	NDD	1.4392	1.4392	0
577	1e+13	NDD	1.4392	1.4392	0
634	1e+12	NDD	1.4392	1.4392	0
635	5e+12	NDD	1.4392	1.3992	-0.04
713	1e+13	NDD	1.3992	1.4392	0.04
732	0	CORRELATION	1.4392	1.4392	0
742	0	CORRELATION	1.4392	1.4392	0
879	0	CORRELATION	1.3992	1.4392	0.04
880	0	CORRELATION	1.3992	1.3992	0

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3992	1.4192	1.4392	0.023094	1.3992	1.4292	1.4392	0.02	0	0.01	0.04	0.02
1e+12	1.3992	1.4092	1.4392	0.02	1.3992	1.4192	1.4392	0.023094	0	0.01	0.04	0.02
5e+12	1.3992	1.4292	1.4392	0.02	1.3992	1.4192	1.4392	0.023094	-0.04	-0.01	0.04	0.038297
1e+13	1.3992	1.4092	1.4392	0.02	1.4392	1.4492	1.4792	0.02	0	0.04	0.08	0.03266

Device Test: 22.12 TIMING|STARTUP/SS_TR/5////@T_SS_22NF

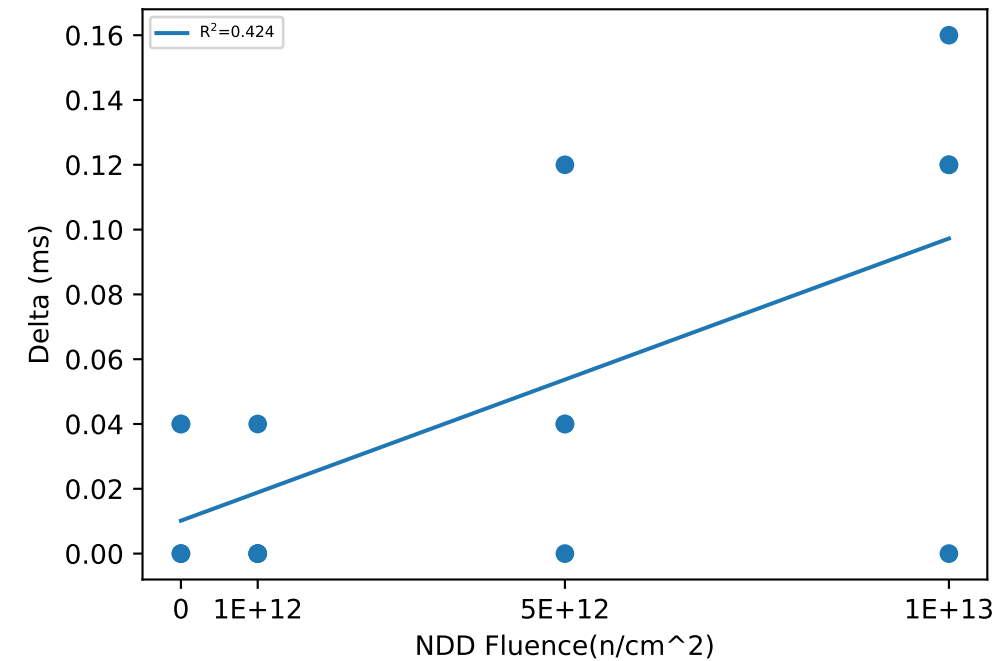
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5.5673	5.5673	0
229	5e+12	NDD	5.6073	5.6073	0
260	1e+13	NDD	5.6873	5.6873	0
301	1e+12	NDD	5.6473	5.6873	0.04
362	5e+12	NDD	5.5673	5.6873	0.12
365	1e+13	NDD	5.6073	5.7673	0.16
439	1e+12	NDD	5.6073	5.6073	0
514	5e+12	NDD	5.6873	5.7273	0.04
577	1e+13	NDD	5.6073	5.7273	0.12
634	1e+12	NDD	5.6473	5.6473	0
635	5e+12	NDD	5.6073	5.6473	0.04
713	1e+13	NDD	5.6073	5.7273	0.12
732	0	CORRELATION	5.6473	5.6473	0
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6873	0.04
880	0	CORRELATION	5.6073	5.6073	0

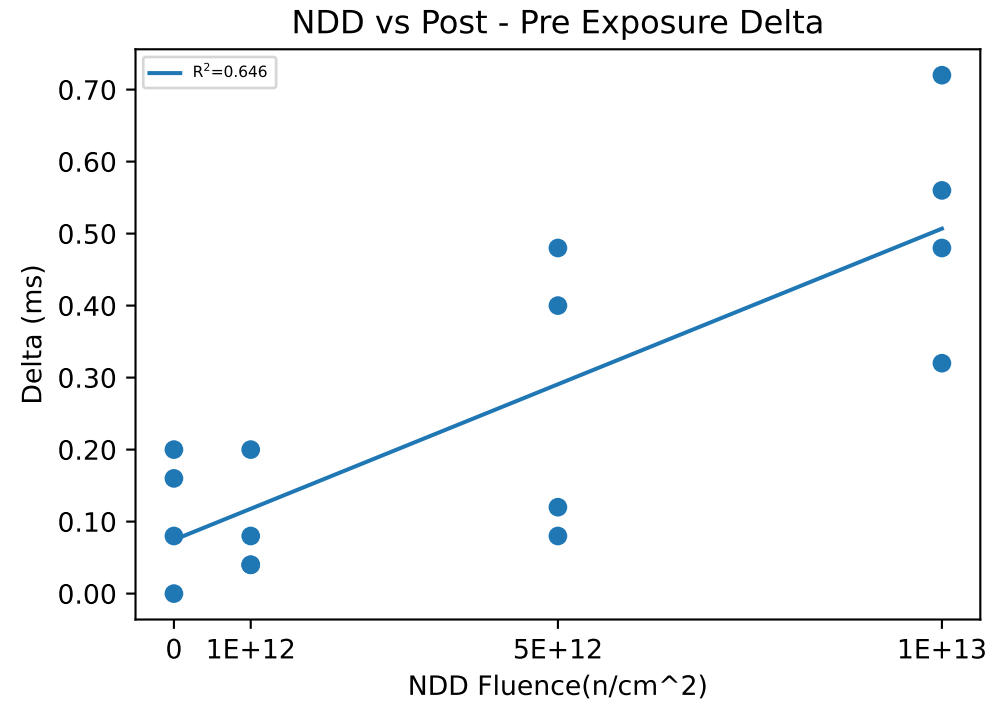
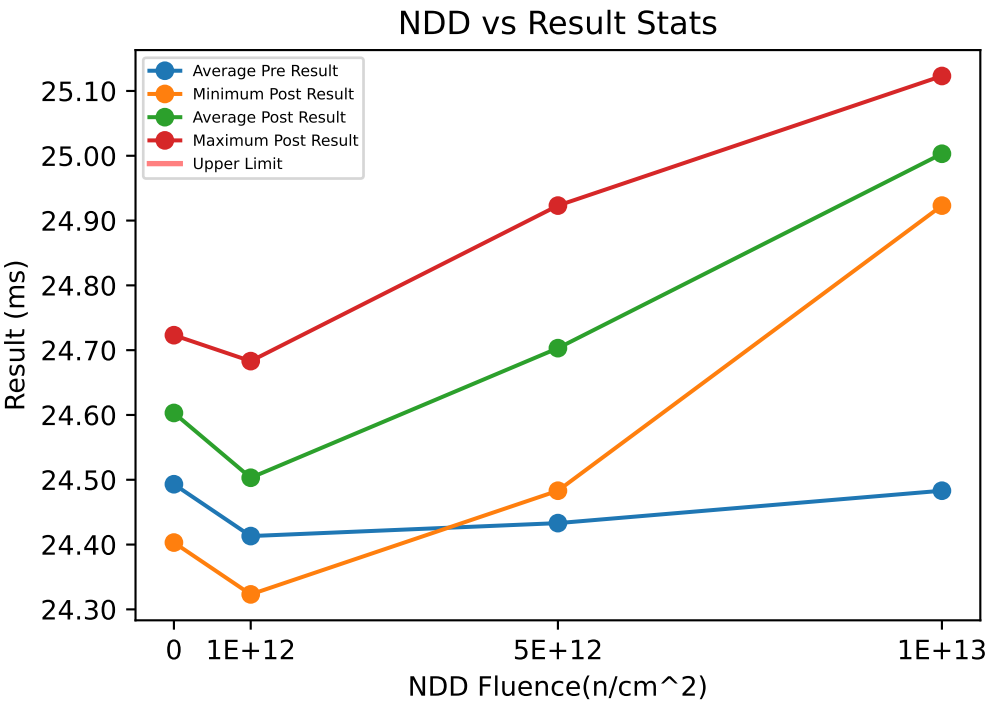
NDD vs Post - Pre Exposure Delta



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	5.6073	5.6373	5.6473	0.02	5.6073	5.6573	5.6873	0.038297	0	0.02	0.04	0.023094
1e+12	5.5673	5.6173	5.6473	0.038297	5.5673	5.6273	5.6873	0.05164	0	0.01	0.04	0.02
5e+12	5.5673	5.6173	5.6873	0.050332	5.6073	5.6673	5.7273	0.05164	0	0.05	0.12	0.050332
1e+13	5.6073	5.6273	5.6873	0.04	5.6873	5.7273	5.7673	0.03266	0	0.1	0.16	0.069282

Device Test: 22.13 TIMING|STARTUP/SS_TR/5/////@T_SS_100NF



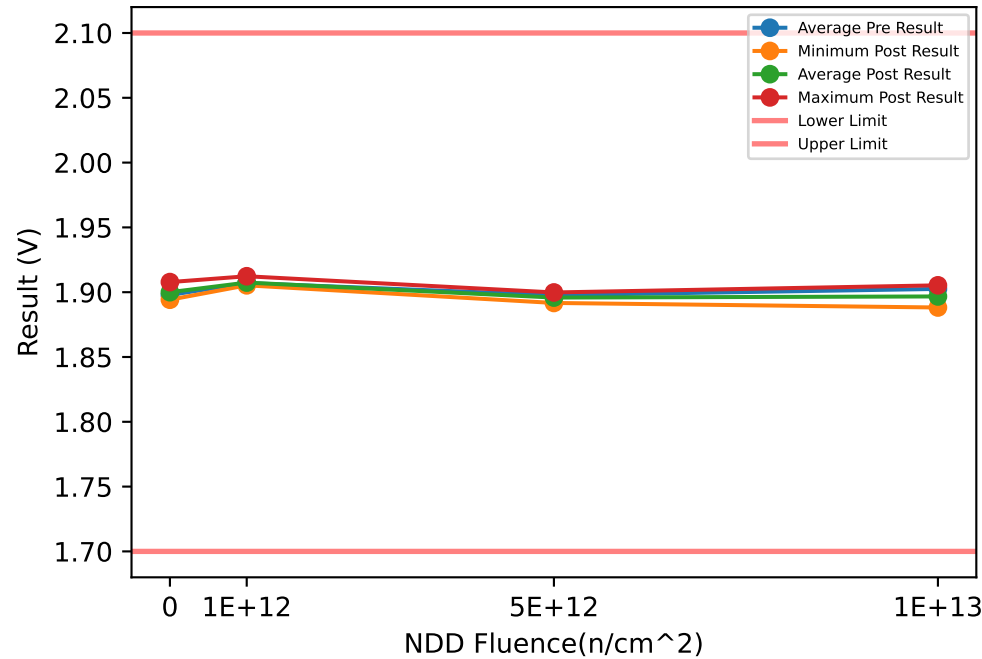
Test Results (No Limits Specified (ms))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	24.283	24.323	0.04
229	5e+12	NDD	24.363	24.483	0.12
260	1e+13	NDD	24.643	24.963	0.32
301	1e+12	NDD	24.643	24.683	0.04
362	5e+12	NDD	24.283	24.683	0.4
365	1e+13	NDD	24.203	24.923	0.72
439	1e+12	NDD	24.283	24.363	0.08
514	5e+12	NDD	24.843	24.923	0.08
577	1e+13	NDD	24.523	25.003	0.48
634	1e+12	NDD	24.443	24.643	0.2
635	5e+12	NDD	24.243	24.723	0.48
713	1e+13	NDD	24.563	25.123	0.56
732	0	CORRELATION	24.683	24.683	0
742	0	CORRELATION	24.403	24.603	0.2
879	0	CORRELATION	24.563	24.723	0.16
880	0	CORRELATION	24.323	24.403	0.08

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	24.323	24.493	24.683	0.16125	24.403	24.603	24.723	0.14236	0	0.11	0.2	0.088694
1e+12	24.283	24.413	24.643	0.17088	24.323	24.503	24.683	0.18619	0.04	0.09	0.2	0.075719
5e+12	24.243	24.433	24.843	0.27785	24.483	24.703	24.923	0.18037	0.08	0.27	0.48	0.19967
1e+13	24.203	24.483	24.643	0.19322	24.923	25.003	25.123	0.08641	0.32	0.52	0.72	0.16653

Device Test: 22.15 LEVEL|RISE/COMP/12////@V_COMP_SD

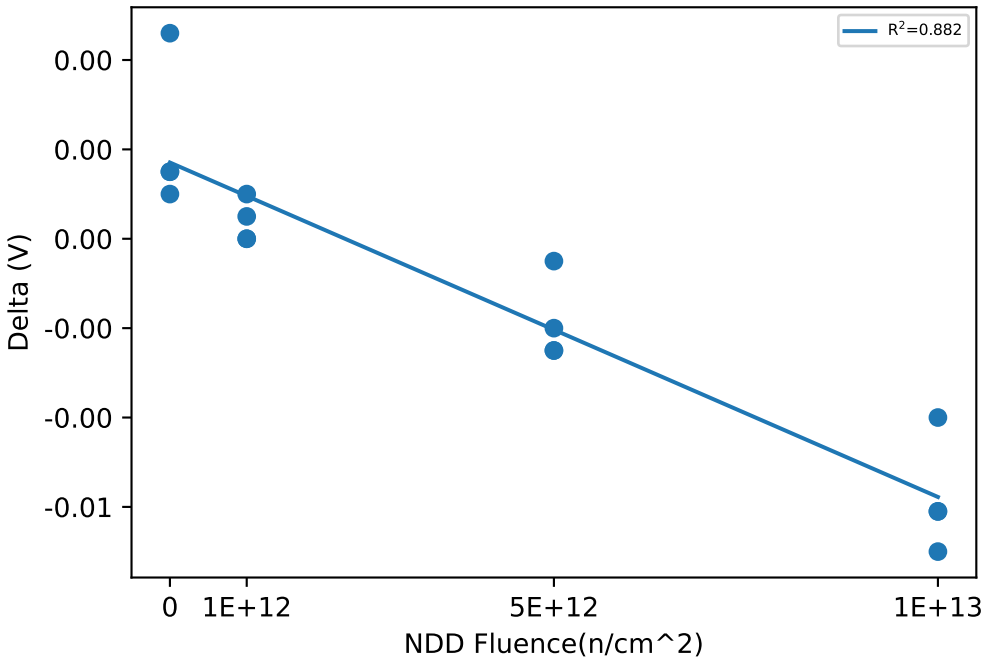
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.9063	1.9068	0.0005
229	5e+12	NDD	1.9018	1.8998	-0.002
260	1e+13	NDD	1.9123	1.9053	-0.007
301	1e+12	NDD	1.9123	1.9123	0
362	5e+12	NDD	1.9002	1.8977	-0.0025
365	1e+13	NDD	1.9033	1.8972	-0.0061
439	1e+12	NDD	1.9043	1.9053	0.001
514	5e+12	NDD	1.8947	1.8942	-0.0005
577	1e+13	NDD	1.8922	1.8882	-0.004
634	1e+12	NDD	1.9053	1.9053	0
635	5e+12	NDD	1.8942	1.8917	-0.0025
713	1e+13	NDD	1.9023	1.8962	-0.0061
732	0	CORRELATION	1.8927	1.8942	0.0015
742	0	CORRELATION	1.8972	1.8982	0.001
879	0	CORRELATION	1.8952	1.8998	0.0046
880	0	CORRELATION	1.9063	1.9078	0.0015

NDD vs Post - Pre Exposure Delta

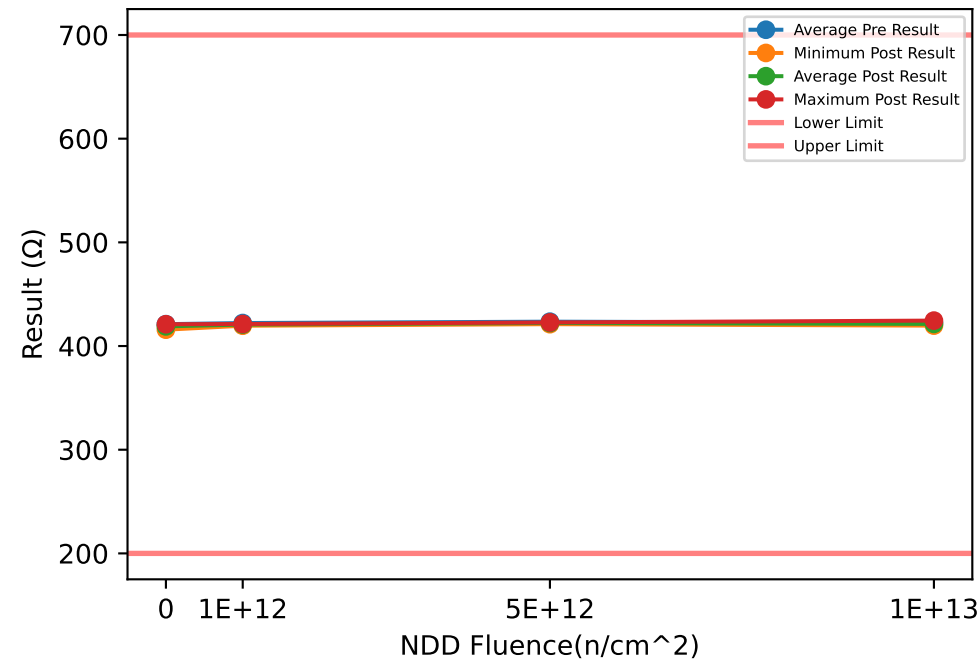


Test Statistics (V)

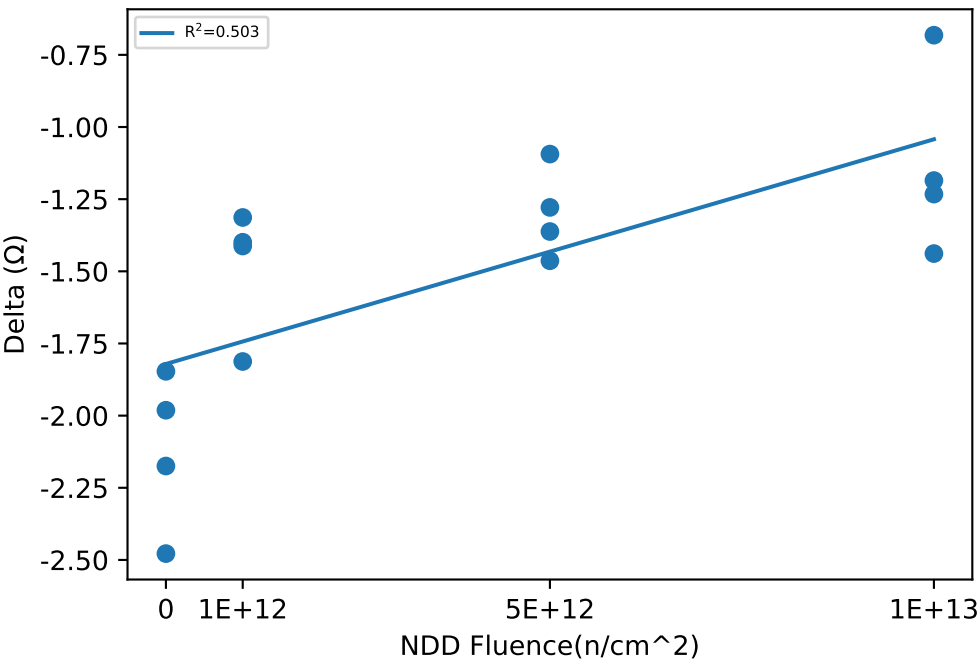
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8927	1.8979	1.9063	0.0059265	1.8942	1.9	1.9078	0.0057085	0.001	0.00215	0.0046	0.0016503
1e+12	1.9043	1.9071	1.9123	0.003594	1.9053	1.9074	1.9123	0.003326	0	0.000375	0.001	0.00047871
5e+12	1.8942	1.8977	1.9018	0.0038431	1.8917	1.8959	1.8998	0.0036042	-0.0025	-0.001875	-0.0005	0.00094648
1e+13	1.8922	1.9025	1.9123	0.0082221	1.8882	1.8967	1.9053	0.006993	-0.007	-0.0058	-0.004	0.0012728

Device Test: 22.16 LEVEL|SINK/SS_TR/12////@R_SS_DISCHARGE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



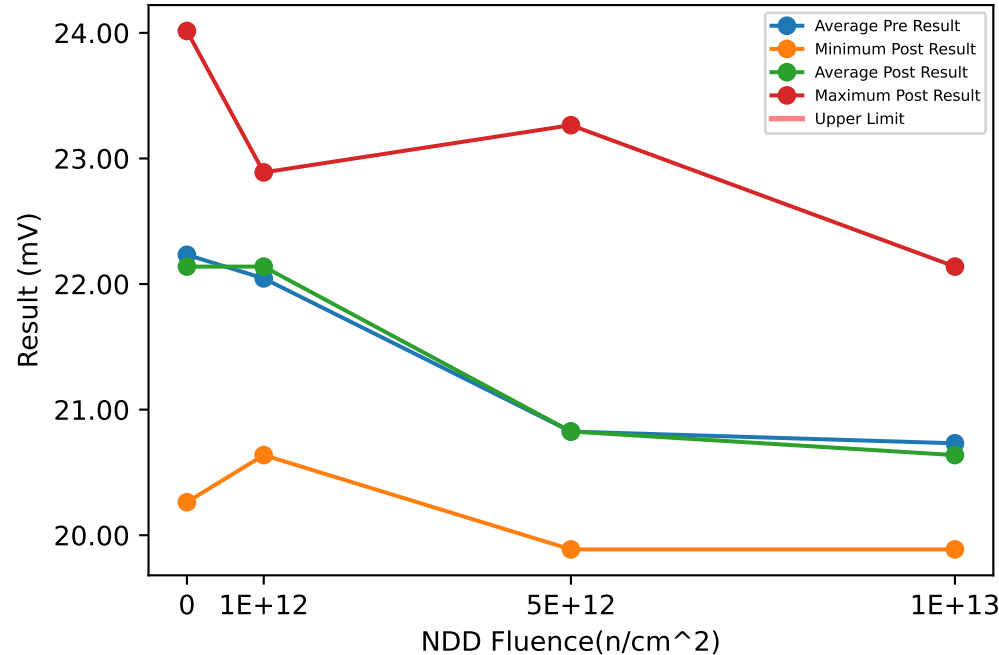
Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (Ω))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	422.64	421.24	-1.3993
229	5e+12	NDD	422.17	421.08	-1.0938
260	1e+13	NDD	420.37	419.69	-0.6819
301	1e+12	NDD	422.4	421.08	-1.3134
362	5e+12	NDD	423.84	422.47	-1.3621
365	1e+13	NDD	422.58	421.35	-1.2324
439	1e+12	NDD	422.33	420.92	-1.4123
514	5e+12	NDD	423.77	422.49	-1.2785
577	1e+13	NDD	425.97	424.53	-1.4385
634	1e+12	NDD	421.41	419.6	-1.8124
635	5e+12	NDD	424.24	422.78	-1.4634
713	1e+13	NDD	421	419.82	-1.1855
732	0	CORRELATION	422.84	420.66	-2.1746
742	0	CORRELATION	423.48	421	-2.478
879	0	CORRELATION	417.62	415.78	-1.8465
880	0	CORRELATION	420.41	418.43	-1.9813

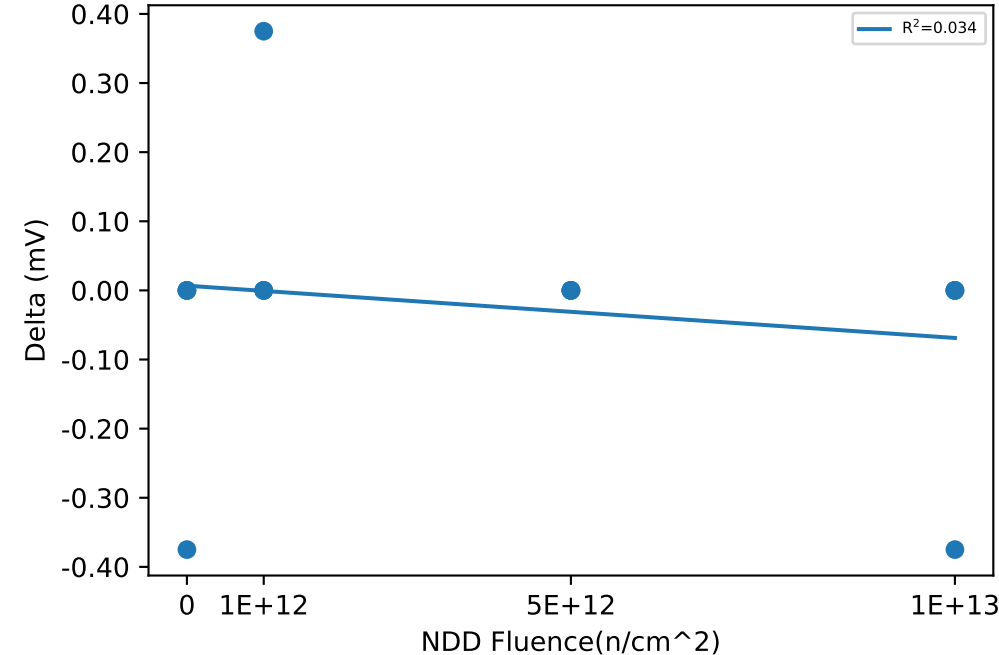
Test Statistics (Ω)

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	417.62	421.09	423.48	2.6616	415.78	418.97	421	2.4146	-2.478	-2.1201	-1.8465	0.27397
1e+12	421.41	422.19	422.64	0.53804	419.6	420.71	421.24	0.75175	-1.8124	-1.4844	-1.3134	0.22306
5e+12	422.17	423.51	424.24	0.9124	421.08	422.21	422.78	0.76415	-1.4634	-1.2995	-1.0938	0.15656
1e+13	420.37	422.48	425.97	2.5047	419.69	421.35	424.53	2.2531	-1.4385	-1.1346	-0.6819	0.32117

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



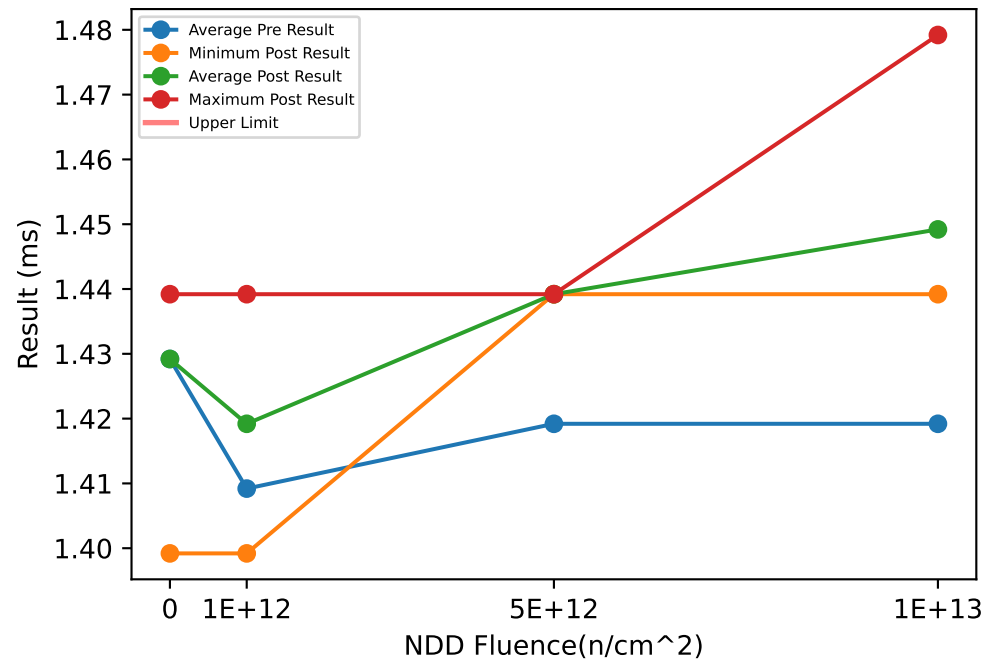
Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	22.889	22.889	0
229	5e+12	NDD	20.263	20.263	0
260	1e+13	NDD	19.887	19.887	0
301	1e+12	NDD	22.139	22.139	0
362	5e+12	NDD	19.887	19.887	0
365	1e+13	NDD	20.638	20.263	-0.375
439	1e+12	NDD	20.263	20.638	0.375
514	5e+12	NDD	19.887	19.887	0
577	1e+13	NDD	20.263	20.263	0
634	1e+12	NDD	22.889	22.889	0
635	5e+12	NDD	23.265	23.265	0
713	1e+13	NDD	22.139	22.139	0
732	0	CORRELATION	22.139	22.139	0
742	0	CORRELATION	20.638	20.263	-0.375
879	0	CORRELATION	24.015	24.015	0
880	0	CORRELATION	22.139	22.139	0

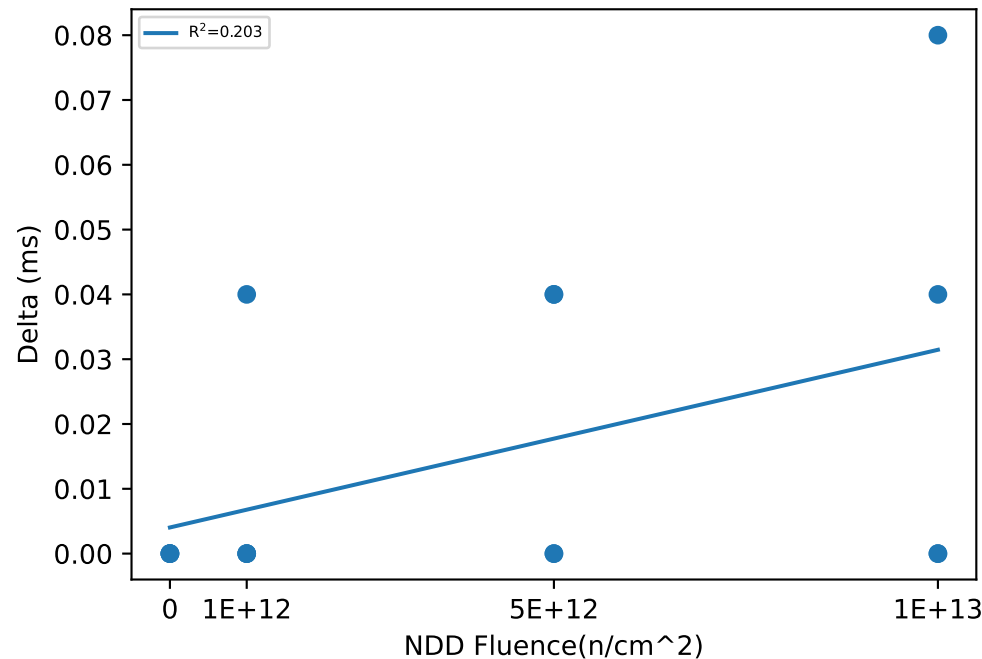
Test Statistics (mV)

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	20.638	22.233	24.015	1.3829	20.263	22.139	24.015	1.5317	-0.375	-0.09375	0	0.1875
1e+12	20.263	22.045	22.889	1.2395	20.638	22.139	22.889	1.0611	0	0.09375	0.375	0.1875
5e+12	19.887	20.826	23.265	1.636	19.887	20.826	23.265	1.636	0	0	0	0
1e+13	19.887	20.732	22.139	0.98699	19.887	20.638	22.139	1.0162	-0.375	-0.09375	0	0.1875

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (ms))

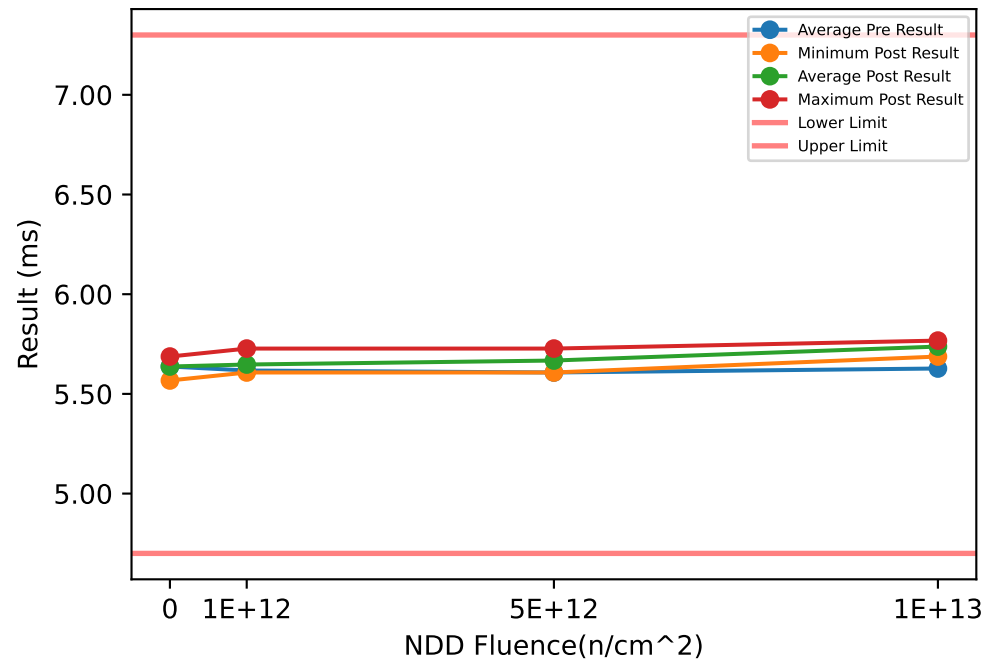
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.3992	1.3992	0
229	5e+12	NDD	1.4392	1.4392	0
260	1e+13	NDD	1.4392	1.4392	0
301	1e+12	NDD	1.3992	1.4392	0.04
362	5e+12	NDD	1.3992	1.4392	0.04
365	1e+13	NDD	1.3992	1.4792	0.08
439	1e+12	NDD	1.3992	1.3992	0
514	5e+12	NDD	1.4392	1.4392	0
577	1e+13	NDD	1.4392	1.4392	0
634	1e+12	NDD	1.4392	1.4392	0
635	5e+12	NDD	1.3992	1.4392	0.04
713	1e+13	NDD	1.3992	1.4392	0.04
732	0	CORRELATION	1.4392	1.4392	0
742	0	CORRELATION	1.4392	1.4392	0
879	0	CORRELATION	1.4392	1.4392	0
880	0	CORRELATION	1.3992	1.3992	0

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3992	1.4292	1.4392	0.02	1.3992	1.4292	1.4392	0.02	0	0	0	0
1e+12	1.3992	1.4092	1.4392	0.02	1.3992	1.4192	1.4392	0.023094	0	0.01	0.04	0.02
5e+12	1.3992	1.4192	1.4392	0.023094	1.4392	1.4392	1.4392	0	0	0.02	0.04	0.023094
1e+13	1.3992	1.4192	1.4392	0.023094	1.4392	1.4492	1.4792	0.02	0	0.03	0.08	0.038297

Device Test: 22.19 TIMING|STARTUP/SS_TR/12////@T_SS_22NF

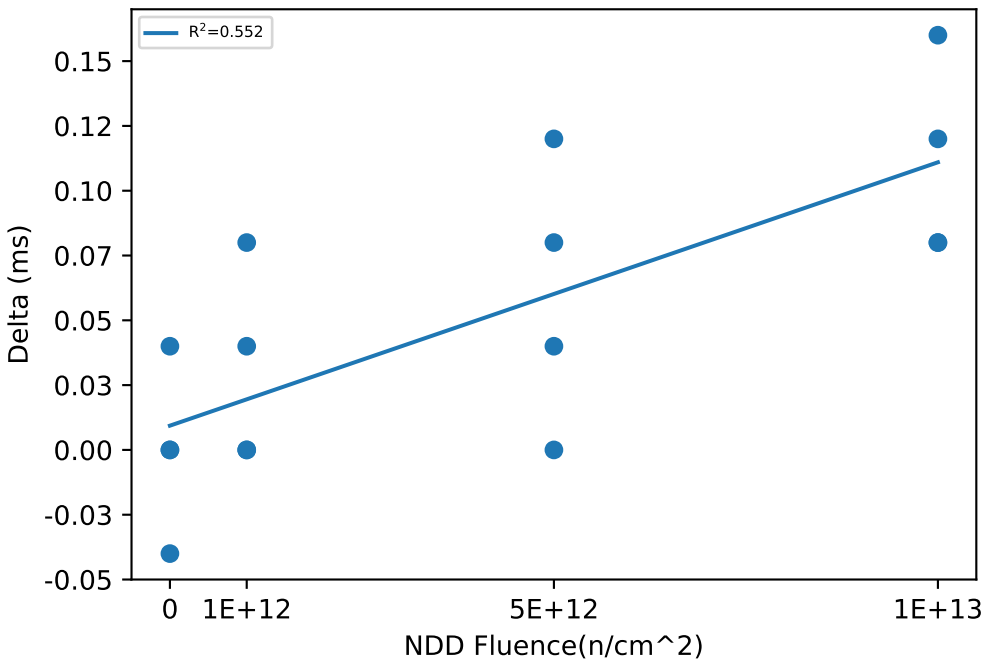
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5.5673	5.6073	0.04
229	5e+12	NDD	5.6073	5.6073	0
260	1e+13	NDD	5.6473	5.7673	0.12
301	1e+12	NDD	5.6473	5.7273	0.08
362	5e+12	NDD	5.5673	5.6873	0.12
365	1e+13	NDD	5.6073	5.7673	0.16
439	1e+12	NDD	5.6073	5.6073	0
514	5e+12	NDD	5.6873	5.7273	0.04
577	1e+13	NDD	5.6073	5.6873	0.08
634	1e+12	NDD	5.6473	5.6473	0
635	5e+12	NDD	5.5673	5.6473	0.08
713	1e+13	NDD	5.6473	5.7273	0.08
732	0	CORRELATION	5.6473	5.6473	0
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6473	0
880	0	CORRELATION	5.6073	5.5673	-0.04

NDD vs Post - Pre Exposure Delta

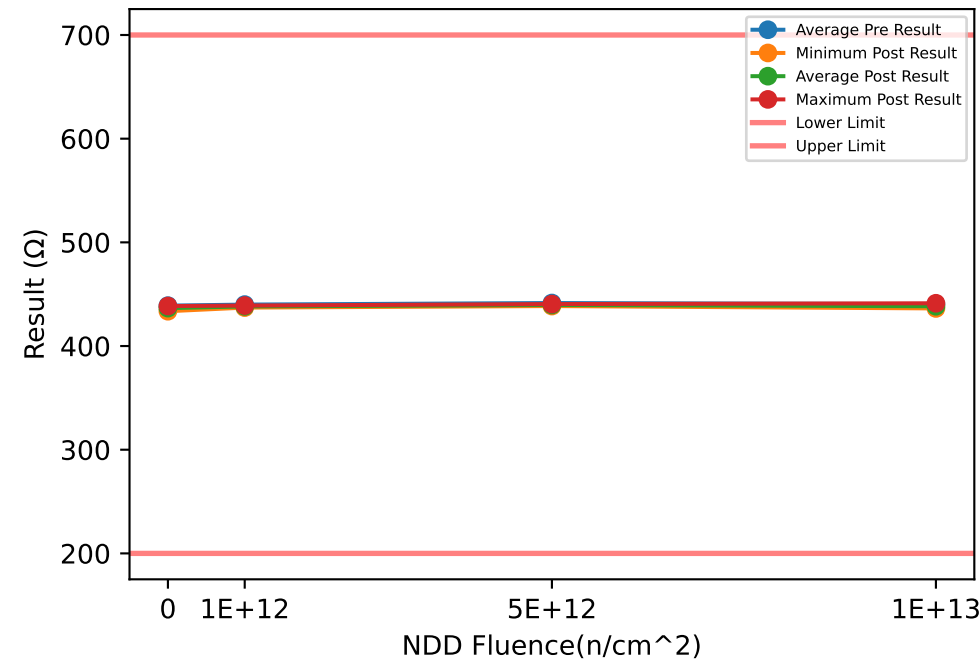


Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	5.6073	5.6373	5.6473	0.02	5.5673	5.6373	5.6873	0.050332	-0.04	-2.2204e-16	0.04	0.03266
1e+12	5.5673	5.6173	5.6473	0.038297	5.6073	5.6473	5.7273	0.056569	0	0.03	0.08	0.038297
5e+12	5.5673	5.6073	5.6873	0.056569	5.6073	5.6673	5.7273	0.05164	0	0.06	0.12	0.05164
1e+13	5.6073	5.6273	5.6473	0.023094	5.6873	5.7373	5.7673	0.038297	0.08	0.11	0.16	0.038297

Device Test: 22.2 LEVEL|SINK/SS_TR/4.5////@R_SS_DISCHARGE

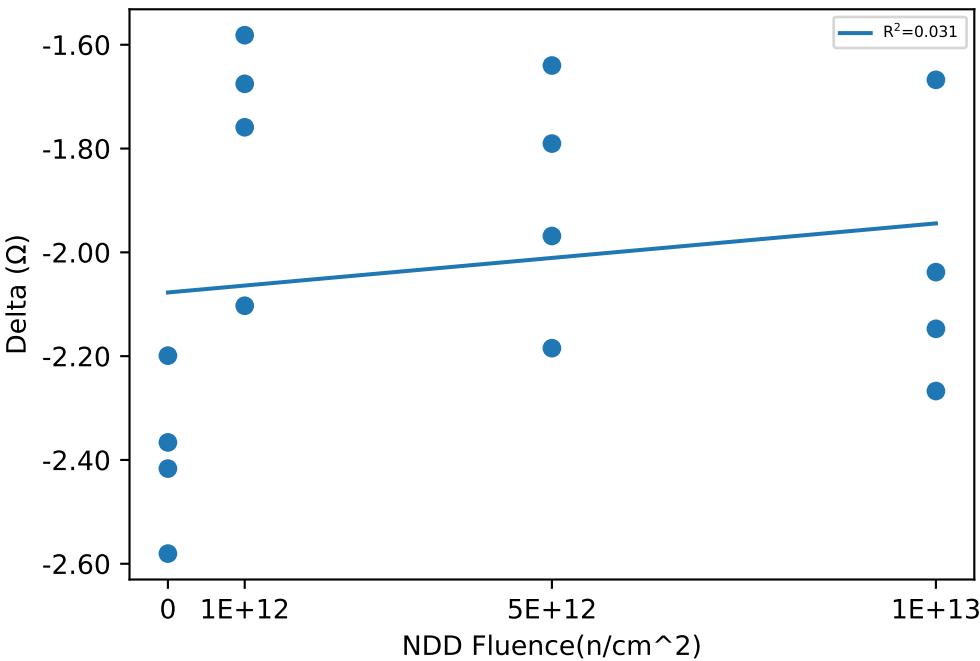
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	440.71	439.03	-1.6753
229	5e+12	NDD	440.19	438.55	-1.64
260	1e+13	NDD	437.94	436.27	-1.6676
301	1e+12	NDD	439.88	438.29	-1.5816
362	5e+12	NDD	441.75	439.79	-1.9685
365	1e+13	NDD	440.51	438.47	-2.0381
439	1e+12	NDD	440.17	438.41	-1.759
514	5e+12	NDD	442.27	440.48	-1.7904
577	1e+13	NDD	443.52	441.26	-2.2672
634	1e+12	NDD	439.17	437.07	-2.1029
635	5e+12	NDD	441.76	439.58	-2.1846
713	1e+13	NDD	439.61	437.46	-2.1473
732	0	CORRELATION	440.46	438.05	-2.4166
742	0	CORRELATION	441.14	438.56	-2.5804
879	0	CORRELATION	435.77	433.57	-2.199
880	0	CORRELATION	438.48	436.11	-2.3662

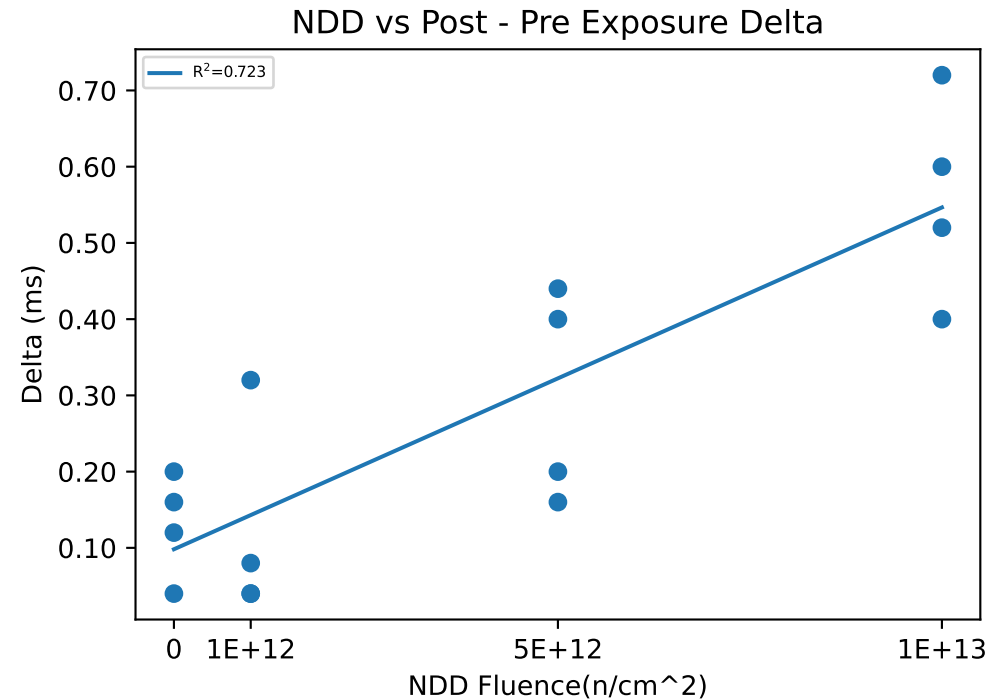
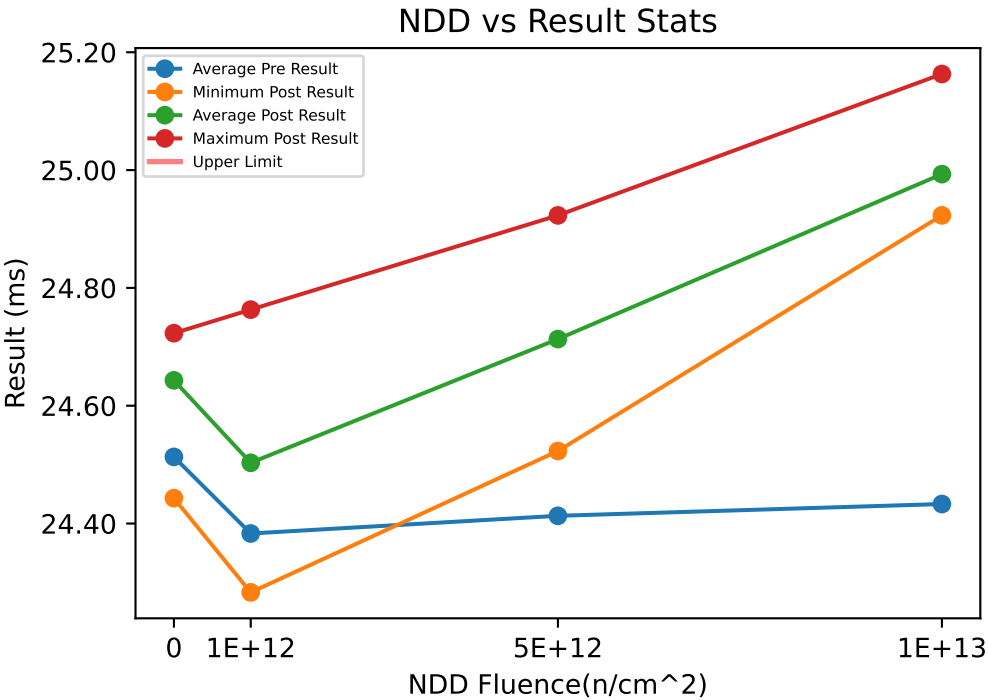
NDD vs Post - Pre Exposure Delta



Test Statistics (Ω)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	435.77	438.96	441.14	2.4081	433.57	436.57	438.56	2.2598	-2.5804	-2.3906	-2.199	0.15706
1e+12	439.17	439.98	440.71	0.64089	437.07	438.2	439.03	0.82223	-2.1029	-1.7797	-1.5816	0.22732
5e+12	440.19	441.49	442.27	0.90136	438.55	439.6	440.48	0.79704	-2.1846	-1.8959	-1.64	0.23469
1e+13	437.94	440.4	443.52	2.3424	436.27	438.37	441.26	2.1275	-2.2672	-2.0301	-1.6676	0.25912

Device Test: 22.20 TIMING|STARTUP/SS_TR/12////@T_SS_100NF

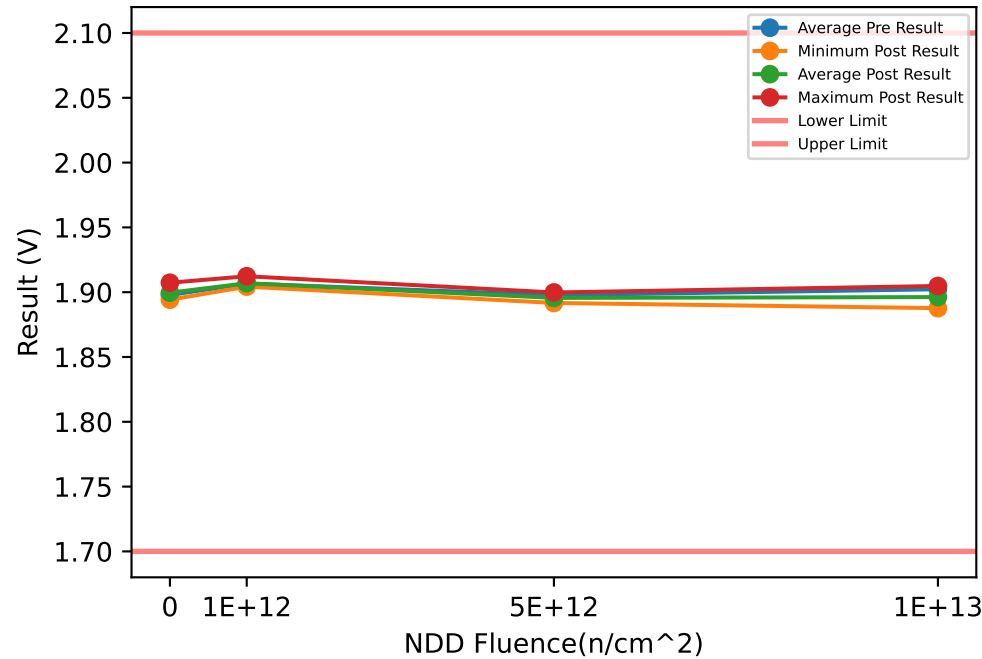


Test Results (No Limits Specified (ms))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	24.243	24.283	0.04
229	5e+12	NDD	24.323	24.523	0.2
260	1e+13	NDD	24.563	24.963	0.4
301	1e+12	NDD	24.683	24.763	0.08
362	5e+12	NDD	24.283	24.723	0.44
365	1e+13	NDD	24.203	24.923	0.72
439	1e+12	NDD	24.283	24.323	0.04
514	5e+12	NDD	24.763	24.923	0.16
577	1e+13	NDD	24.403	24.923	0.52
634	1e+12	NDD	24.323	24.643	0.32
635	5e+12	NDD	24.283	24.683	0.4
713	1e+13	NDD	24.563	25.163	0.6
732	0	CORRELATION	24.683	24.723	0.04
742	0	CORRELATION	24.483	24.683	0.2
879	0	CORRELATION	24.563	24.723	0.16
880	0	CORRELATION	24.323	24.443	0.12

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	24.323	24.513	24.683	0.151	24.443	24.643	24.723	0.13466	0.04	0.13	0.2	0.068313
1e+12	24.243	24.383	24.683	0.20265	24.283	24.503	24.763	0.23664	0.04	0.12	0.32	0.13466
5e+12	24.283	24.413	24.763	0.23409	24.523	24.713	24.923	0.16452	0.16	0.3	0.44	0.14048
1e+13	24.203	24.433	24.563	0.17088	24.923	24.993	25.163	0.11489	0.4	0.56	0.72	0.13466

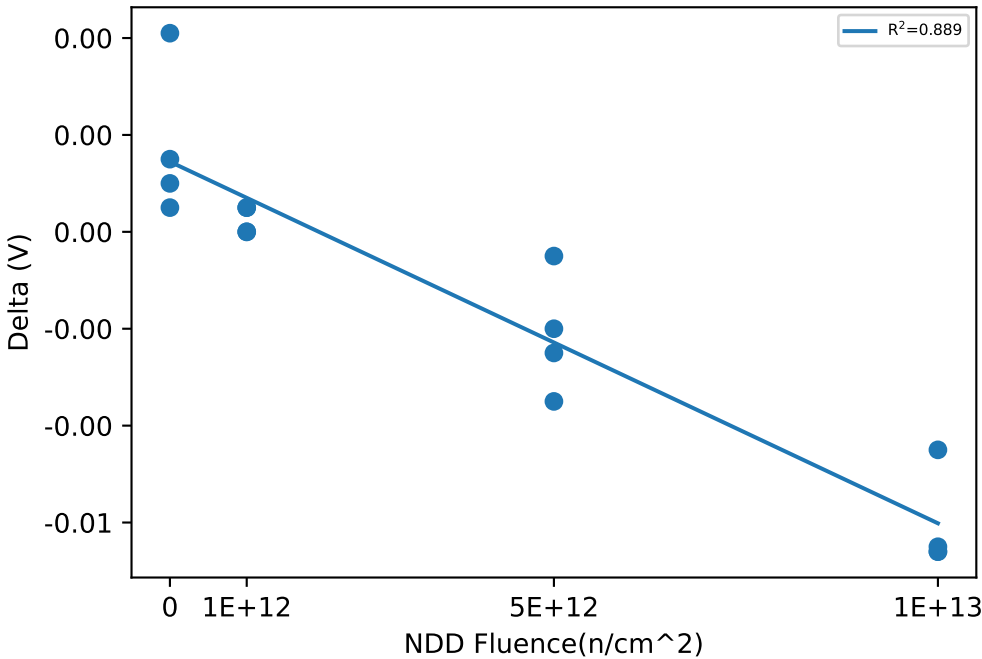
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.9058	1.9058	0
229	5e+12	NDD	1.9018	1.8998	-0.002
260	1e+13	NDD	1.9113	1.9048	-0.0065
301	1e+12	NDD	1.9118	1.9123	0.0005
362	5e+12	NDD	1.9002	1.8967	-0.0035
365	1e+13	NDD	1.9033	1.8967	-0.0066
439	1e+12	NDD	1.9043	1.9043	0
514	5e+12	NDD	1.8947	1.8942	-0.0005
577	1e+13	NDD	1.8922	1.8877	-0.0045
634	1e+12	NDD	1.9048	1.9053	0.0005
635	5e+12	NDD	1.8942	1.8917	-0.0025
713	1e+13	NDD	1.9023	1.8957	-0.0066
732	0	CORRELATION	1.8927	1.8942	0.0015
742	0	CORRELATION	1.8972	1.8977	0.0005
879	0	CORRELATION	1.8952	1.8993	0.0041
880	0	CORRELATION	1.9063	1.9073	0.001

NDD vs Post - Pre Exposure Delta

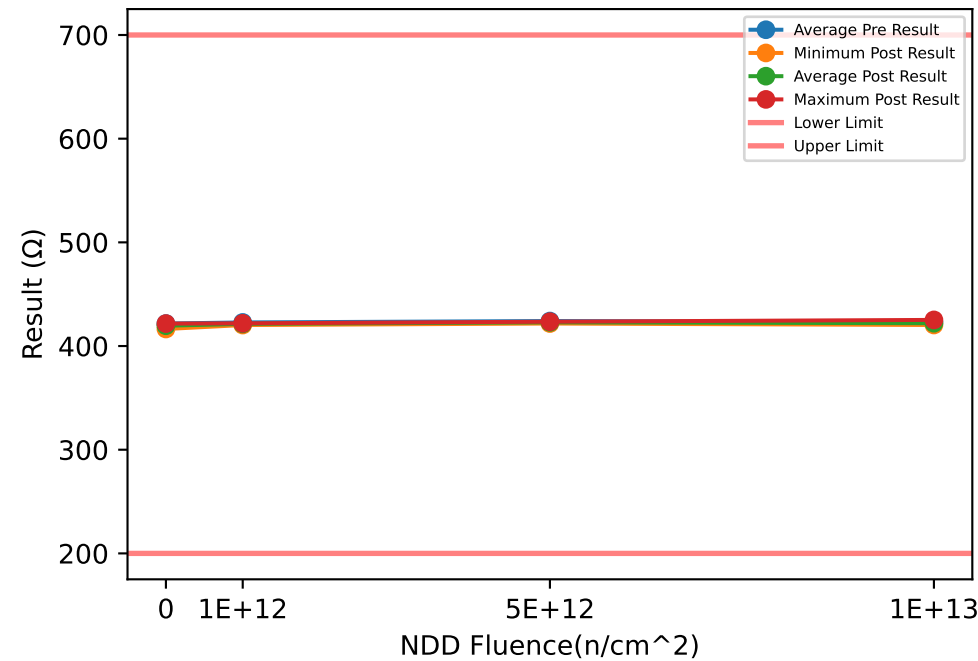


Test Statistics (V)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8927	1.8979	1.9063	0.0059265	1.8942	1.8996	1.9073	0.0055422	0.0005	0.001775	0.0041	0.0016029
1e+12	1.9043	1.9067	1.9118	0.0034731	1.9043	1.9069	1.9123	0.0036372	0	0.00025	0.0005	0.00028868
5e+12	1.8942	1.8977	1.9018	0.0038431	1.8917	1.8956	1.8998	0.0034651	-0.0035	-0.002125	-0.0005	0.00125
1e+13	1.8922	1.9023	1.9113	0.0078317	1.8877	1.8962	1.9048	0.006993	-0.0066	-0.00605	-0.0045	0.0010344

Device Test: 22.23 LEVEL|SINK/SS_TR/14////@R_SS_DISCHARGE

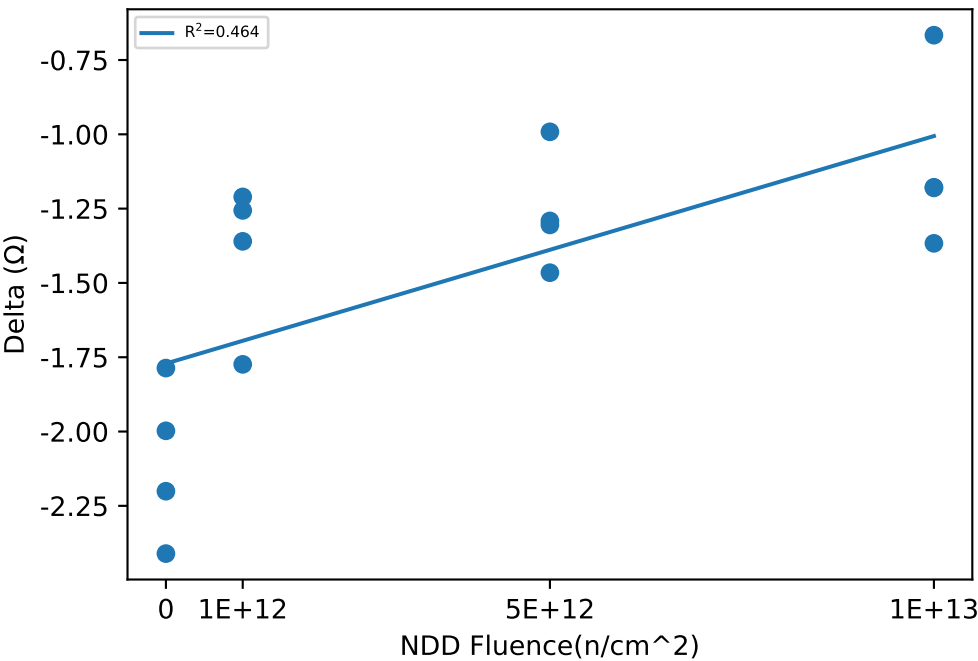
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	423.16	421.9	-1.256
229	5e+12	NDD	422.7	421.71	-0.9916
260	1e+13	NDD	420.96	420.29	-0.6665
301	1e+12	NDD	422.99	421.78	-1.2106
362	5e+12	NDD	424.38	423.07	-1.3048
365	1e+13	NDD	423.2	422.02	-1.1802
439	1e+12	NDD	422.92	421.56	-1.3601
514	5e+12	NDD	424.4	423.1	-1.2914
577	1e+13	NDD	426.57	425.2	-1.3668
634	1e+12	NDD	422.02	420.24	-1.774
635	5e+12	NDD	424.94	423.48	-1.4656
713	1e+13	NDD	421.71	420.53	-1.1782
732	0	CORRELATION	423.46	421.26	-2.2008
742	0	CORRELATION	424.06	421.65	-2.4107
879	0	CORRELATION	418.23	416.44	-1.7865
880	0	CORRELATION	421.05	419.05	-1.9976

NDD vs Post - Pre Exposure Delta

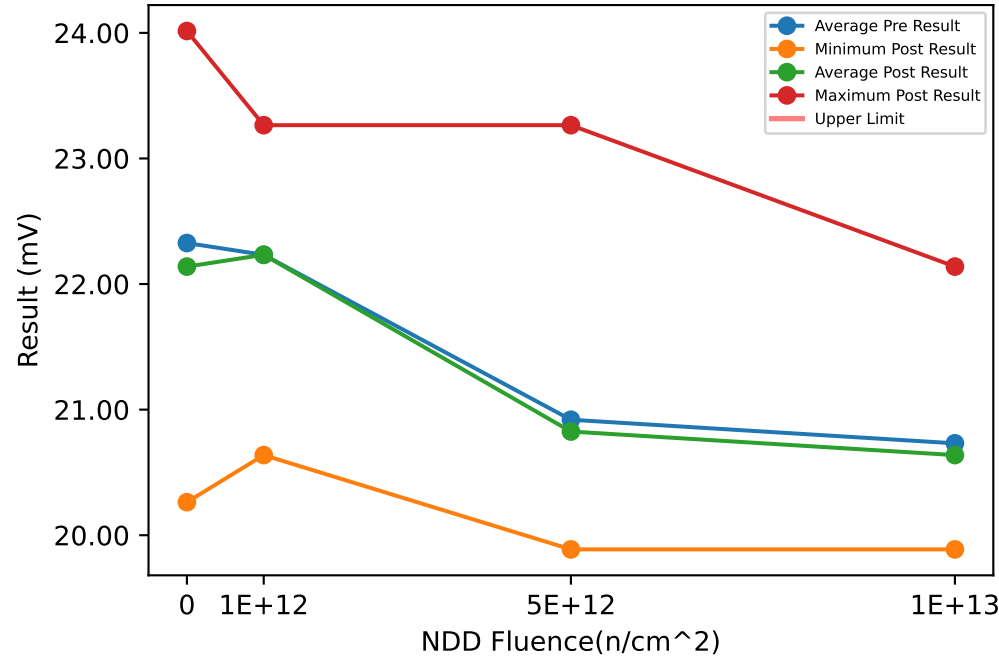


Test Statistics (Ω)

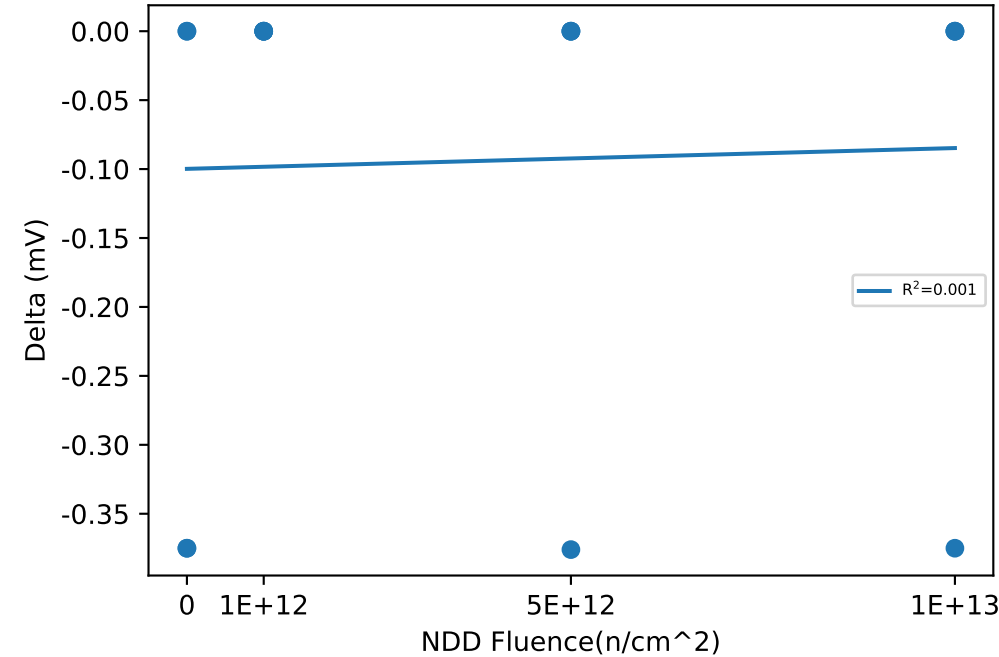
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	418.23	421.7	424.06	2.6577	416.44	419.6	421.65	2.3993	-2.4107	-2.0989	-1.7865	0.26799
1e+12	422.02	422.77	423.16	0.51187	420.24	421.37	421.9	0.76462	-1.774	-1.4002	-1.2106	0.25695
5e+12	422.7	424.1	424.94	0.97096	421.71	422.84	423.48	0.77575	-1.4656	-1.2634	-0.9916	0.1977
1e+13	420.96	423.11	426.57	2.4886	420.29	422.01	425.2	2.2616	-1.3668	-1.0979	-0.6665	0.30091

Device Test: 22.24 LEVEL|STATIC/SS_TR/14////@V_SS_START

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



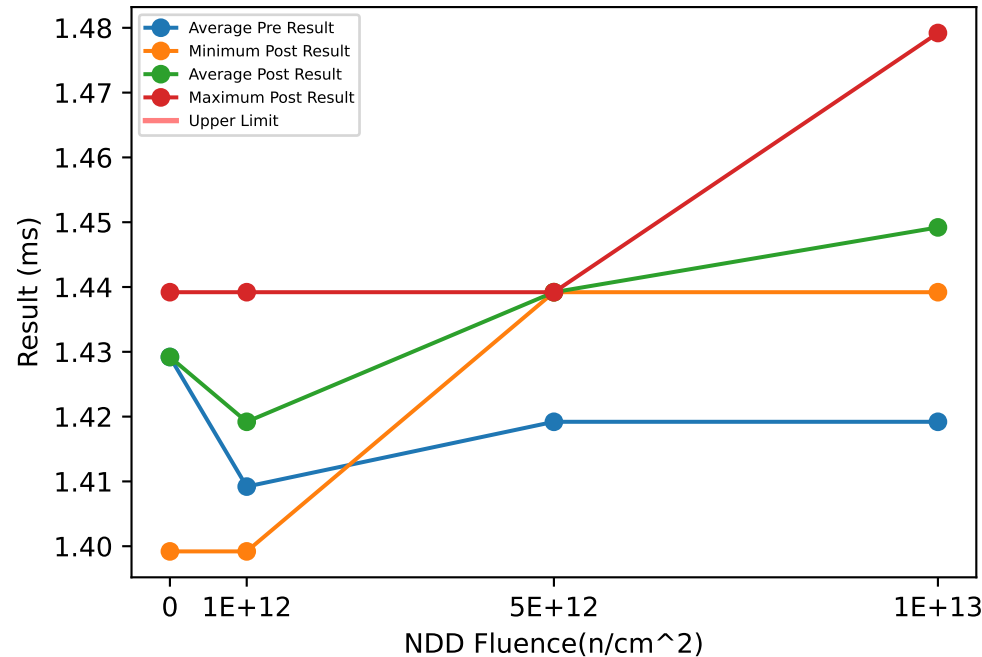
Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	22.889	22.889	0
229	5e+12	NDD	20.263	20.263	0
260	1e+13	NDD	19.887	19.887	0
301	1e+12	NDD	22.139	22.139	0
362	5e+12	NDD	20.263	19.887	-0.376
365	1e+13	NDD	20.638	20.263	-0.375
439	1e+12	NDD	20.638	20.638	0
514	5e+12	NDD	19.887	19.887	0
577	1e+13	NDD	20.263	20.263	0
634	1e+12	NDD	23.265	23.265	0
635	5e+12	NDD	23.265	23.265	0
713	1e+13	NDD	22.139	22.139	0
732	0	CORRELATION	22.139	22.139	0
742	0	CORRELATION	20.638	20.263	-0.375
879	0	CORRELATION	24.015	24.015	0
880	0	CORRELATION	22.514	22.139	-0.375

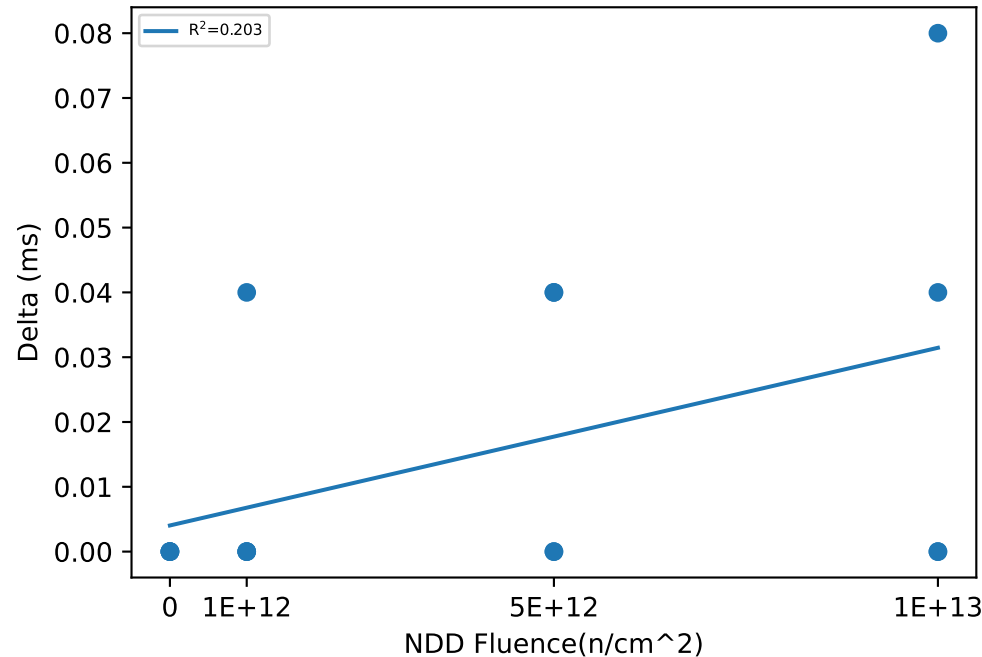
Test Statistics (mV)

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	20.638	22.326	24.015	1.3871	20.263	22.139	24.015	1.5317	-0.375	-0.1875	0	0.21651
1e+12	20.638	22.233	23.265	1.1616	20.638	22.233	23.265	1.1616	0	0	0	0
5e+12	19.887	20.919	23.265	1.5737	19.887	20.826	23.265	1.636	-0.376	-0.094	0	0.188
1e+13	19.887	20.732	22.139	0.98699	19.887	20.638	22.139	1.0162	-0.375	-0.09375	0	0.1875

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



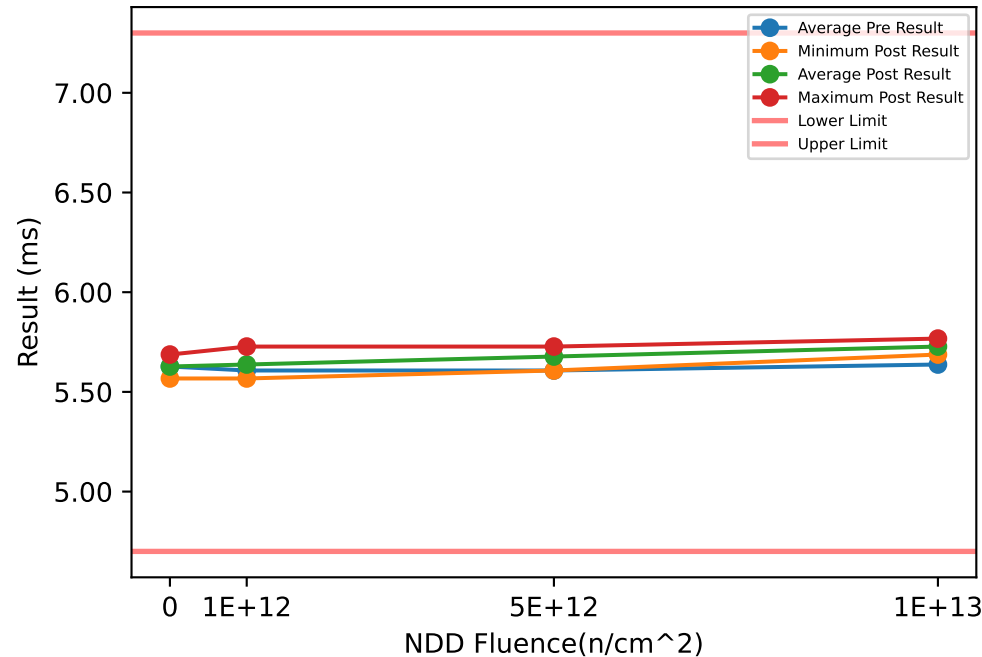
Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.3992	1.3992	0
229	5e+12	NDD	1.4392	1.4392	0
260	1e+13	NDD	1.4392	1.4392	0
301	1e+12	NDD	1.3992	1.4392	0.04
362	5e+12	NDD	1.3992	1.4392	0.04
365	1e+13	NDD	1.3992	1.4792	0.08
439	1e+12	NDD	1.3992	1.3992	0
514	5e+12	NDD	1.4392	1.4392	0
577	1e+13	NDD	1.4392	1.4392	0
634	1e+12	NDD	1.4392	1.4392	0
635	5e+12	NDD	1.3992	1.4392	0.04
713	1e+13	NDD	1.3992	1.4392	0.04
732	0	CORRELATION	1.4392	1.4392	0
742	0	CORRELATION	1.4392	1.4392	0
879	0	CORRELATION	1.4392	1.4392	0
880	0	CORRELATION	1.3992	1.3992	0

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.3992	1.4292	1.4392	0.02	1.3992	1.4292	1.4392	0.02	0	0	0	0
1e+12	1.3992	1.4092	1.4392	0.02	1.3992	1.4192	1.4392	0.023094	0	0.01	0.04	0.02
5e+12	1.3992	1.4192	1.4392	0.023094	1.4392	1.4392	1.4392	0	0	0.02	0.04	0.023094
1e+13	1.3992	1.4192	1.4392	0.023094	1.4392	1.4492	1.4792	0.02	0	0.03	0.08	0.038297

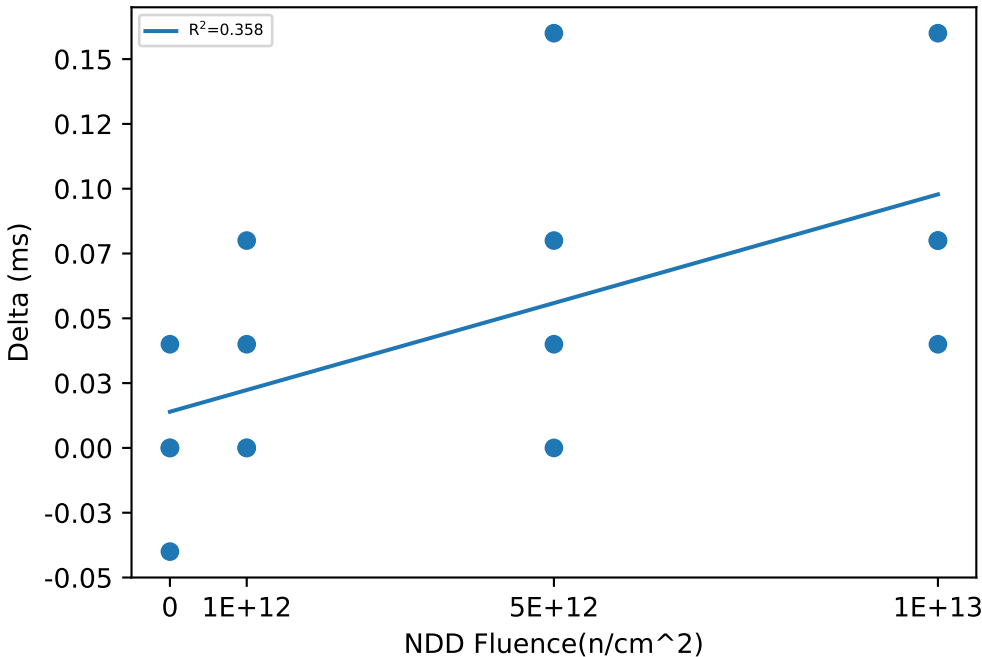
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5.5673	5.5673	0
229	5e+12	NDD	5.6073	5.6073	0
260	1e+13	NDD	5.6873	5.7273	0.04
301	1e+12	NDD	5.6473	5.7273	0.08
362	5e+12	NDD	5.5673	5.7273	0.16
365	1e+13	NDD	5.6073	5.7673	0.16
439	1e+12	NDD	5.6073	5.6073	0
514	5e+12	NDD	5.6873	5.7273	0.04
577	1e+13	NDD	5.6073	5.6873	0.08
634	1e+12	NDD	5.6073	5.6473	0.04
635	5e+12	NDD	5.5673	5.6473	0.08
713	1e+13	NDD	5.6473	5.7273	0.08
732	0	CORRELATION	5.6473	5.6073	-0.04
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6473	0
880	0	CORRELATION	5.5673	5.5673	0

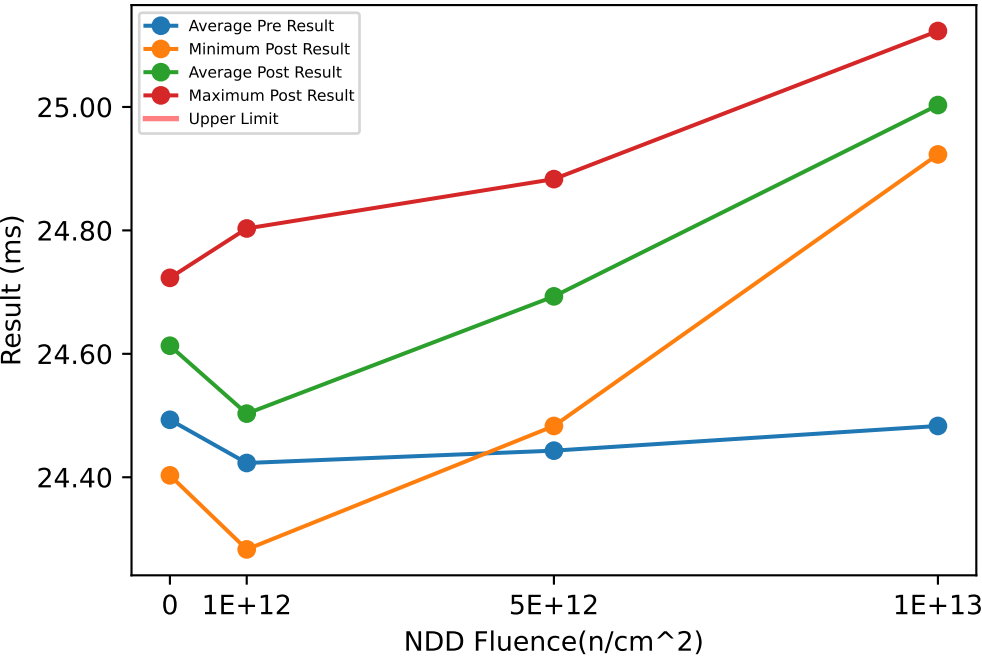
NDD vs Post - Pre Exposure Delta



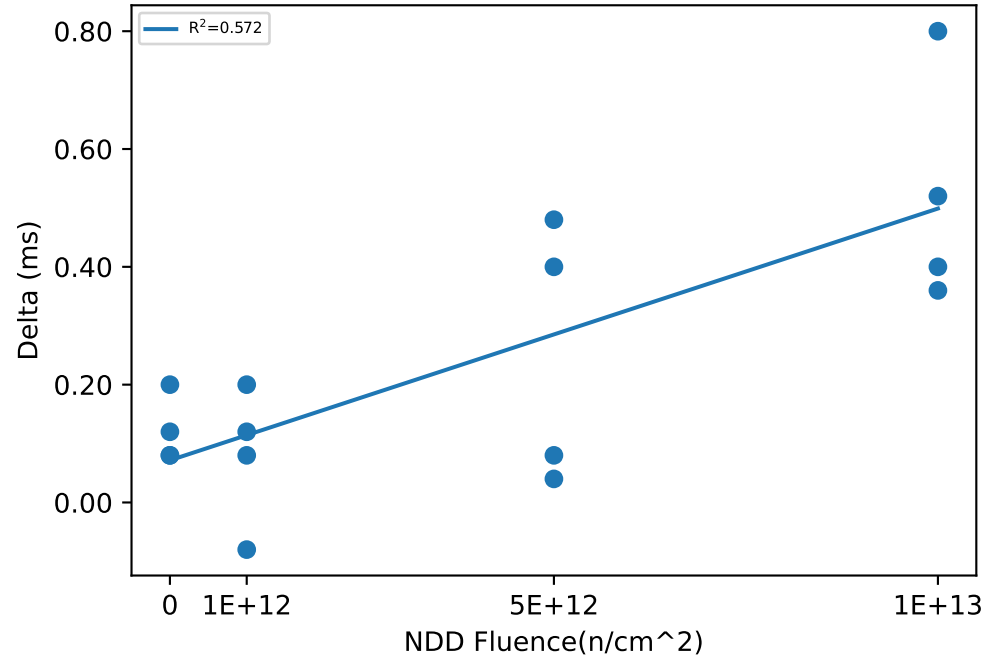
Test Statistics (ms)

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	5.5673	5.6273	5.6473	0.04	5.5673	5.6273	5.6873	0.05164	-0.04	-2.2204e-16	0.04	0.03266
1e+12	5.5673	5.6073	5.6473	0.03266	5.5673	5.6373	5.7273	0.068313	0	0.03	0.08	0.038297
5e+12	5.5673	5.6073	5.6873	0.056569	5.6073	5.6773	5.7273	0.06	0	0.07	0.16	0.068313
1e+13	5.6073	5.6373	5.6873	0.038297	5.6873	5.7273	5.7673	0.03266	0.04	0.09	0.16	0.050332

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



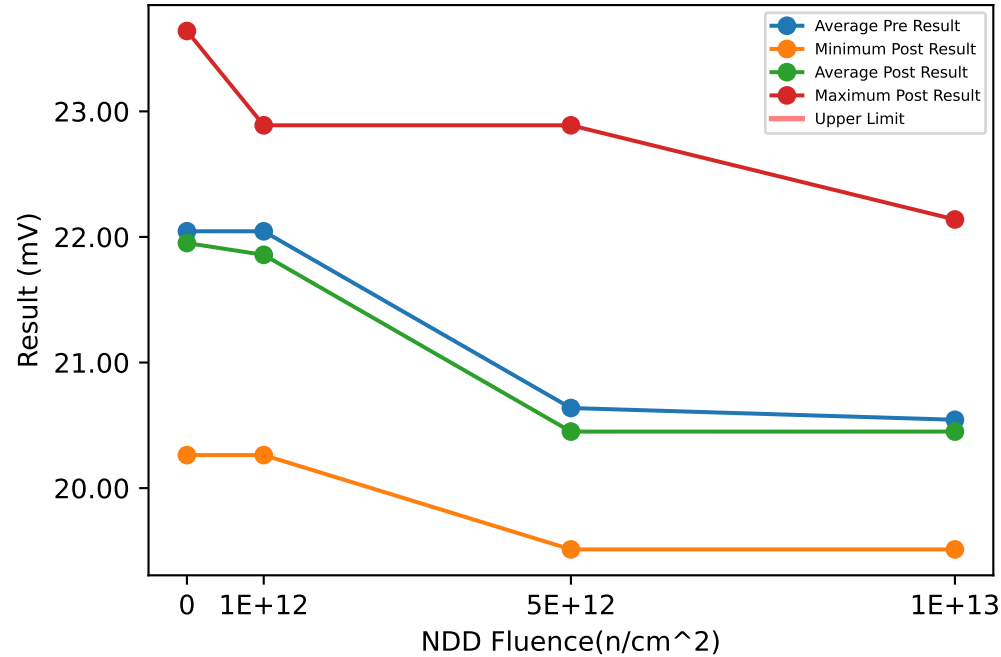
Test Results (No Limits Specified (ms))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	24.203	24.283	0.08
229	5e+12	NDD	24.403	24.483	0.08
260	1e+13	NDD	24.603	25.003	0.4
301	1e+12	NDD	24.683	24.803	0.12
362	5e+12	NDD	24.243	24.723	0.48
365	1e+13	NDD	24.163	24.963	0.8
439	1e+12	NDD	24.363	24.283	-0.08
514	5e+12	NDD	24.843	24.883	0.04
577	1e+13	NDD	24.563	24.923	0.36
634	1e+12	NDD	24.443	24.643	0.2
635	5e+12	NDD	24.283	24.683	0.4
713	1e+13	NDD	24.603	25.123	0.52
732	0	CORRELATION	24.603	24.723	0.12
742	0	CORRELATION	24.443	24.643	0.2
879	0	CORRELATION	24.603	24.683	0.08
880	0	CORRELATION	24.323	24.403	0.08

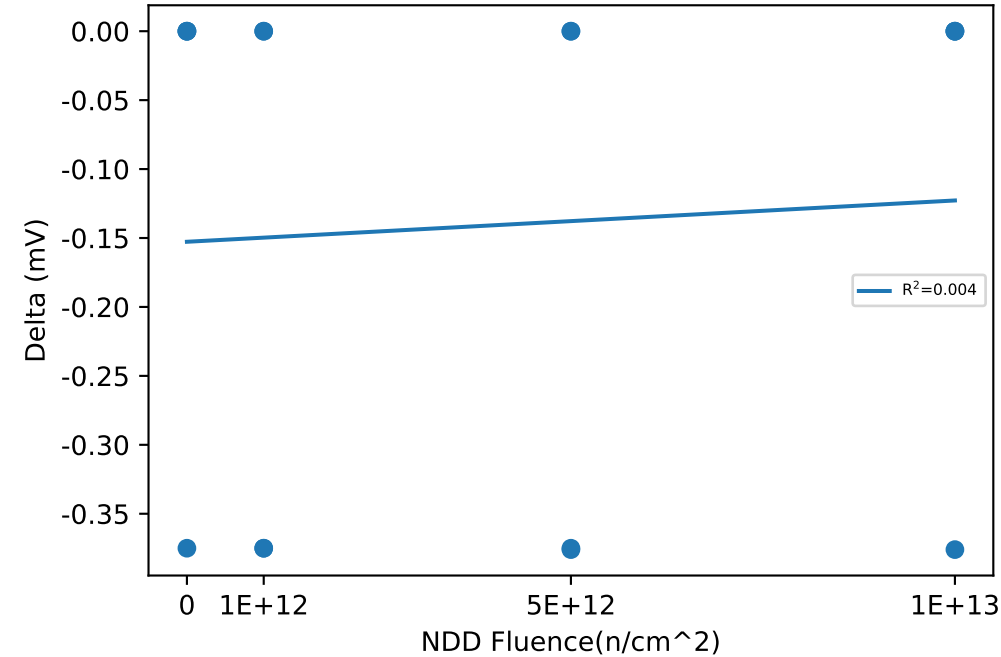
Test Statistics (ms)

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	24.323	24.493	24.603	0.13614	24.403	24.613	24.723	0.14376	0.08	0.12	0.2	0.056569
1e+12	24.203	24.423	24.683	0.2	24.283	24.503	24.803	0.2623	-0.08	0.08	0.2	0.11776
5e+12	24.243	24.443	24.843	0.2752	24.483	24.693	24.883	0.16452	0.04	0.25	0.48	0.22241
1e+13	24.163	24.483	24.603	0.21417	24.923	25.003	25.123	0.08641	0.36	0.52	0.8	0.19866

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



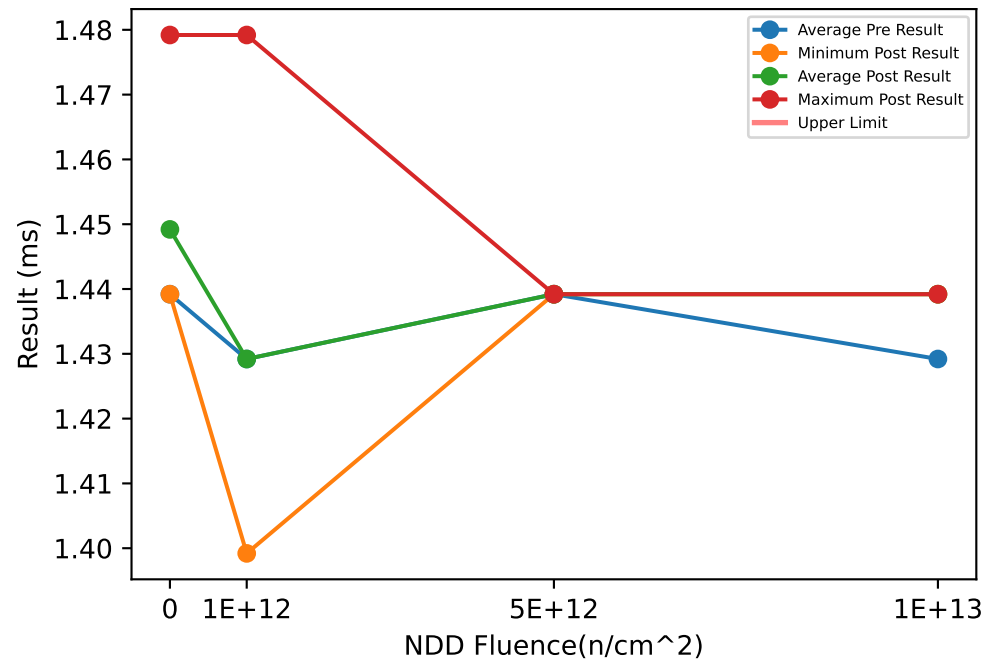
Test Results (No Limits Specified (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	22.889	22.514	-0.375
229	5e+12	NDD	19.887	19.887	0
260	1e+13	NDD	19.512	19.512	0
301	1e+12	NDD	22.139	21.764	-0.375
362	5e+12	NDD	19.887	19.512	-0.375
365	1e+13	NDD	20.263	19.887	-0.376
439	1e+12	NDD	20.263	20.263	0
514	5e+12	NDD	19.512	19.512	0
577	1e+13	NDD	20.263	20.263	0
634	1e+12	NDD	22.889	22.889	0
635	5e+12	NDD	23.265	22.889	-0.376
713	1e+13	NDD	22.139	22.139	0
732	0	CORRELATION	21.764	21.764	0
742	0	CORRELATION	20.638	20.263	-0.375
879	0	CORRELATION	23.64	23.64	0
880	0	CORRELATION	22.139	22.139	0

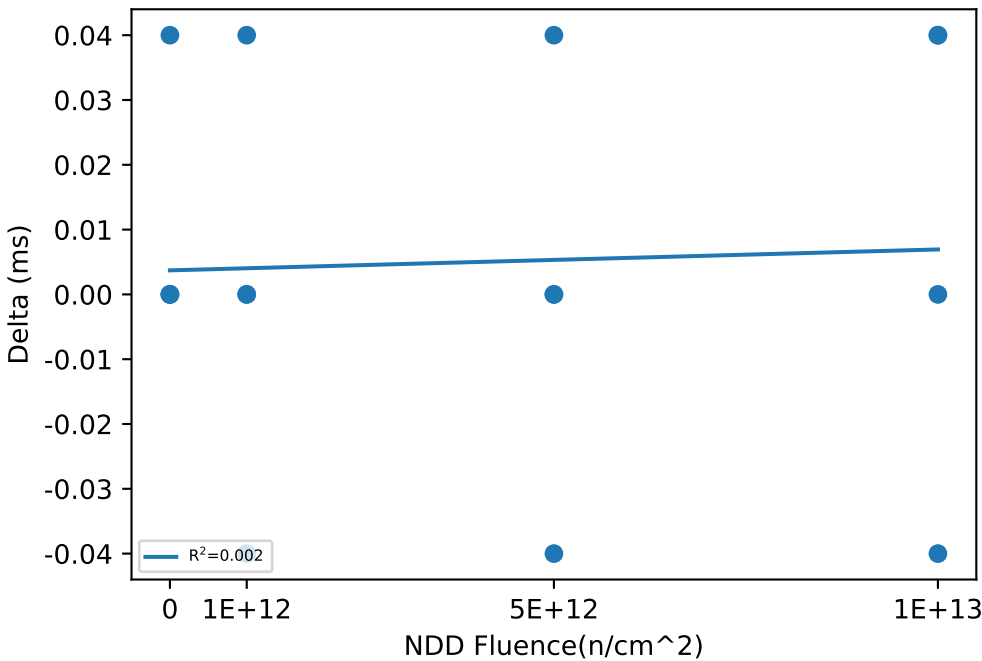
Test Statistics (mV)

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	20.638	22.045	23.64	1.2398	20.263	21.951	23.64	1.3871	-0.375	-0.09375	0	0.1875
1e+12	20.263	22.045	22.889	1.2395	20.263	21.858	22.889	1.1613	-0.375	-0.1875	0	0.21651
5e+12	19.512	20.638	23.265	1.7604	19.512	20.45	22.889	1.6356	-0.376	-0.18775	0	0.2168
1e+13	19.512	20.544	22.139	1.1206	19.512	20.45	22.139	1.1668	-0.376	-0.094	0	0.188

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (ms))

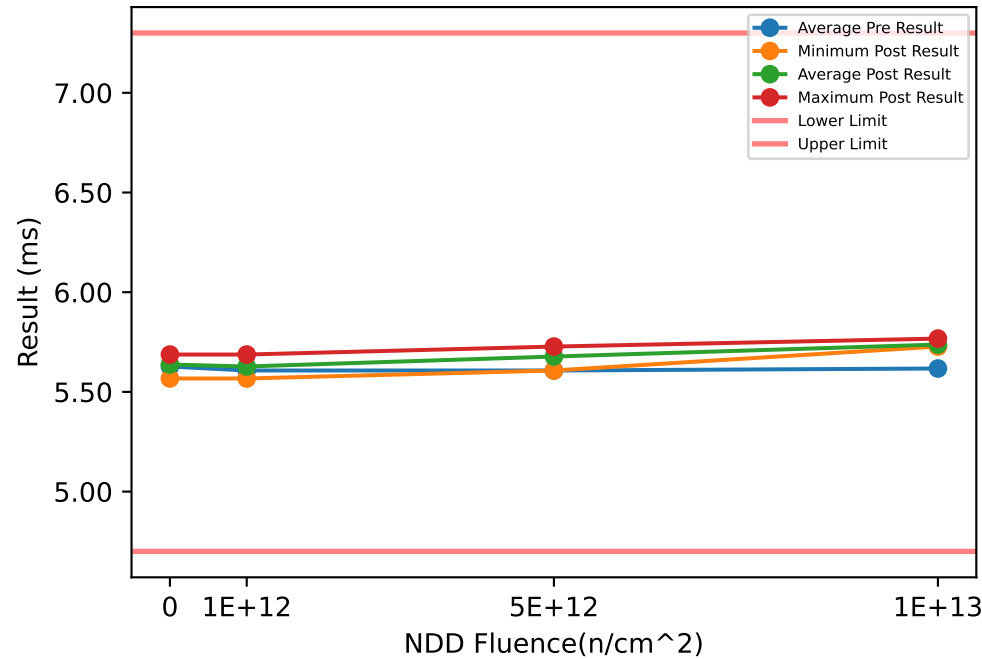
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.4392	1.4392	0
229	5e+12	NDD	1.4392	1.4392	0
260	1e+13	NDD	1.4792	1.4392	-0.04
301	1e+12	NDD	1.4392	1.4792	0.04
362	5e+12	NDD	1.3992	1.4392	0.04
365	1e+13	NDD	1.4392	1.4392	0
439	1e+12	NDD	1.3992	1.3992	0
514	5e+12	NDD	1.4792	1.4392	-0.04
577	1e+13	NDD	1.3992	1.4392	0.04
634	1e+12	NDD	1.4392	1.3992	-0.04
635	5e+12	NDD	1.4392	1.4392	0
713	1e+13	NDD	1.3992	1.4392	0.04
732	0	CORRELATION	1.4392	1.4392	0
742	0	CORRELATION	1.4392	1.4392	0
879	0	CORRELATION	1.4392	1.4792	0.04
880	0	CORRELATION	1.4392	1.4392	0

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.4392	1.4392	1.4392	0	1.4392	1.4492	1.4792	0.02	0	0.01	0.04	0.02
1e+12	1.3992	1.4292	1.4392	0.02	1.3992	1.4292	1.4792	0.038297	-0.04	0	0.04	0.03266
5e+12	1.3992	1.4392	1.4792	0.03266	1.4392	1.4392	1.4392	0	-0.04	0	0.04	0.03266
1e+13	1.3992	1.4292	1.4792	0.038297	1.4392	1.4392	1.4392	0	-0.04	0.01	0.04	0.038297

Device Test: 22.5 TIMING|STARTUP/SS_TR/4.5/////@T_SS_22NF

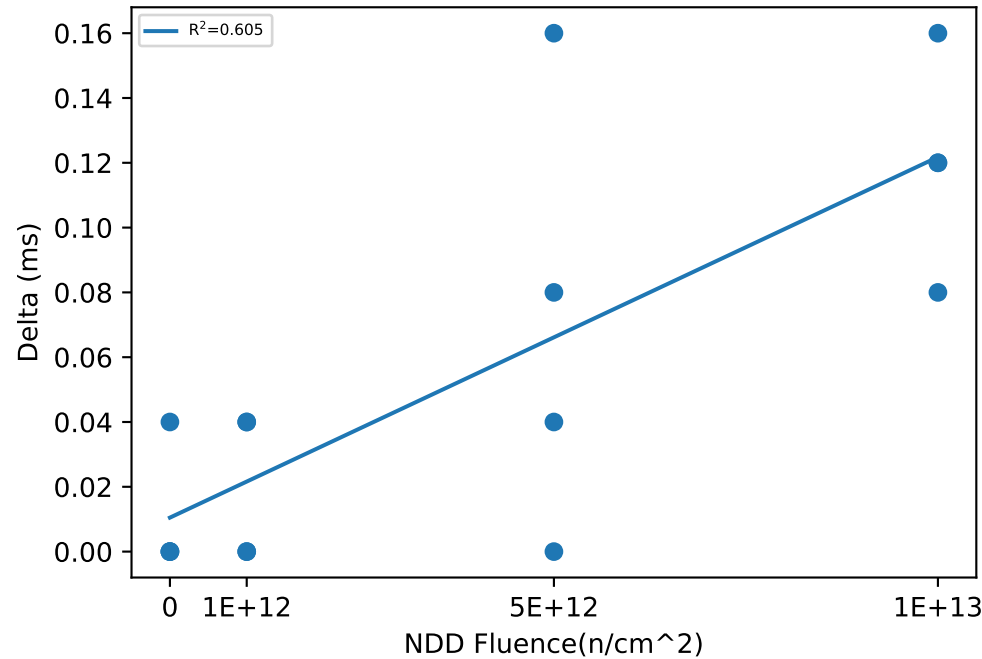
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5.5673	5.5673	0
229	5e+12	NDD	5.6073	5.6073	0
260	1e+13	NDD	5.6473	5.7273	0.08
301	1e+12	NDD	5.6473	5.6873	0.04
362	5e+12	NDD	5.5673	5.7273	0.16
365	1e+13	NDD	5.5673	5.7273	0.16
439	1e+12	NDD	5.5673	5.6073	0.04
514	5e+12	NDD	5.6873	5.7273	0.04
577	1e+13	NDD	5.6073	5.7273	0.12
634	1e+12	NDD	5.6473	5.6473	0
635	5e+12	NDD	5.5673	5.6473	0.08
713	1e+13	NDD	5.6473	5.7673	0.12
732	0	CORRELATION	5.6473	5.6473	0
742	0	CORRELATION	5.6473	5.6873	0.04
879	0	CORRELATION	5.6473	5.6473	0
880	0	CORRELATION	5.5673	5.5673	0

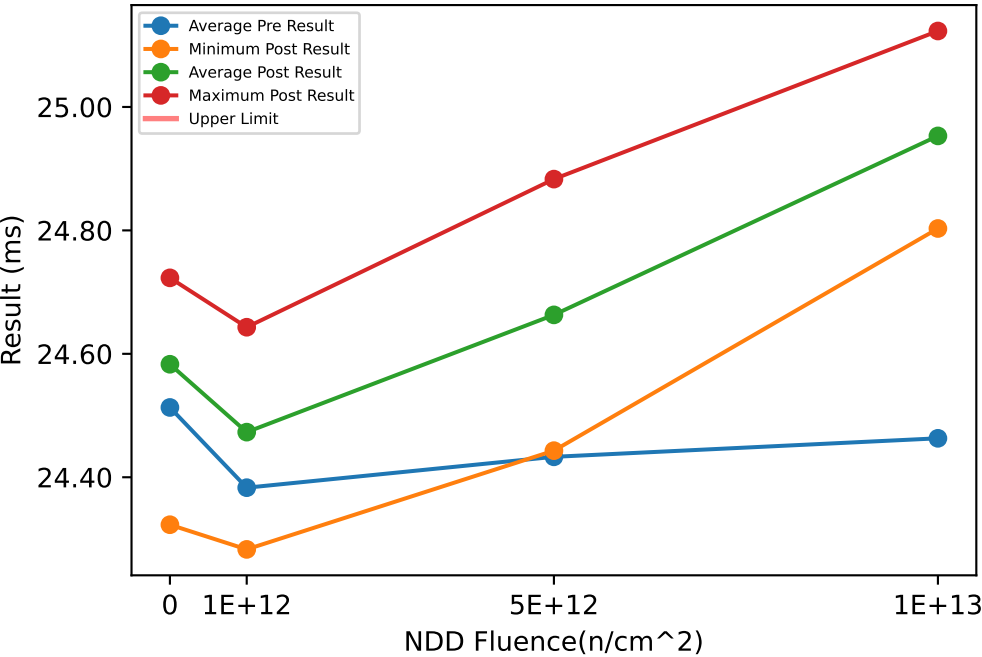
NDD vs Post - Pre Exposure Delta



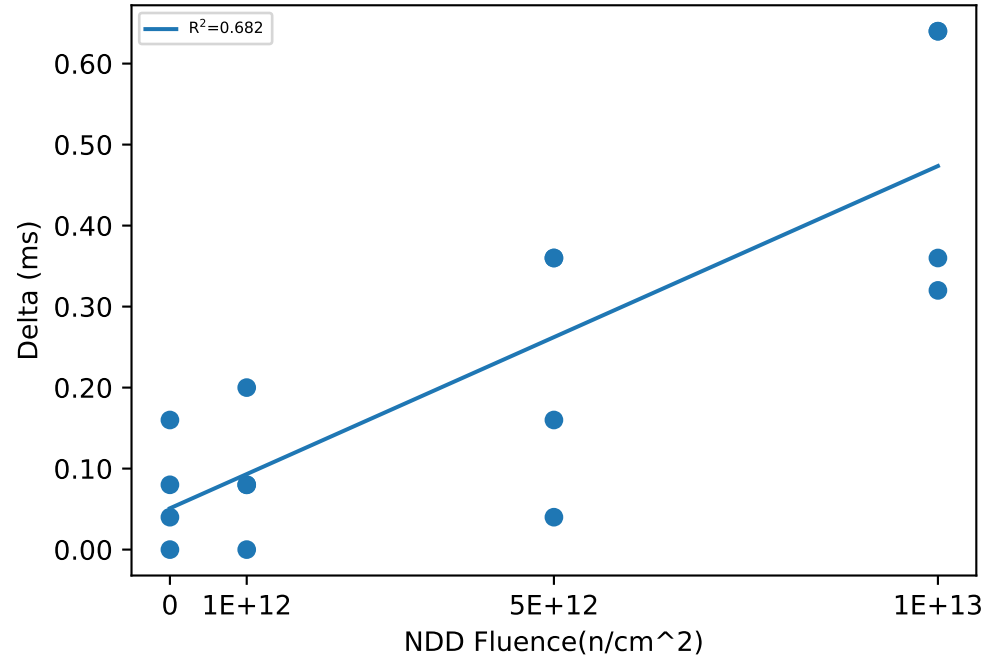
Test Statistics (ms)

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	5.5673	5.6273	5.6473	0.04	5.5673	5.6373	5.6873	0.050332	0	0.01	0.04	0.02
1e+12	5.5673	5.6073	5.6473	0.046188	5.5673	5.6273	5.6873	0.05164	0	0.02	0.04	0.023094
5e+12	5.5673	5.6073	5.6873	0.056569	5.6073	5.6773	5.7273	0.06	0	0.07	0.16	0.068313
1e+13	5.5673	5.6173	5.6473	0.038297	5.7273	5.7373	5.7673	0.02	0.08	0.12	0.16	0.03266

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (No Limits Specified (ms))

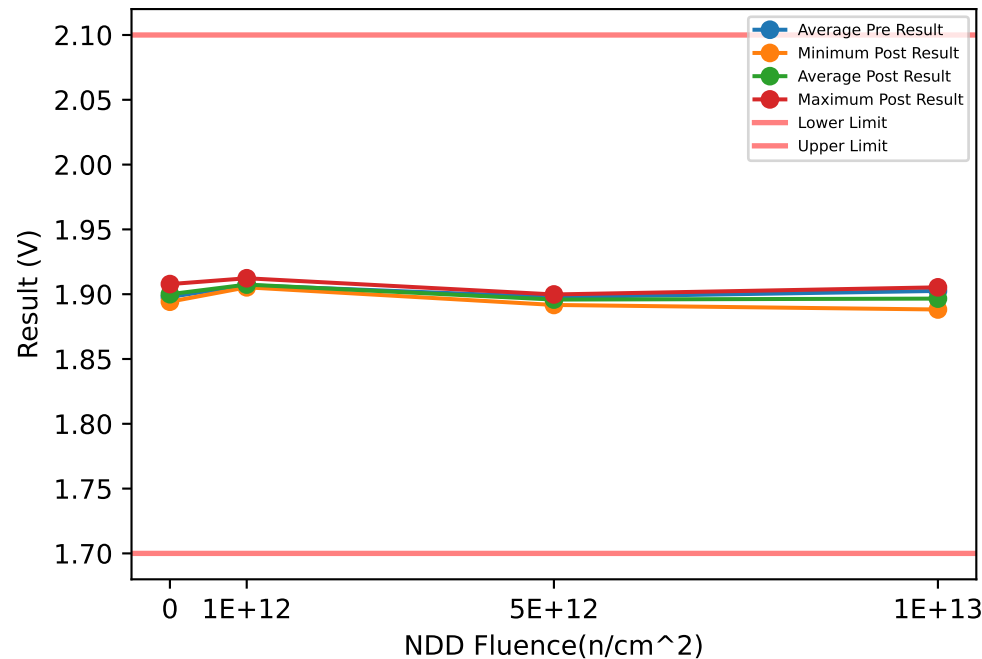
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	24.203	24.283	0.08
229	5e+12	NDD	24.283	24.443	0.16
260	1e+13	NDD	24.643	25.003	0.36
301	1e+12	NDD	24.643	24.643	0
362	5e+12	NDD	24.283	24.643	0.36
365	1e+13	NDD	24.163	24.803	0.64
439	1e+12	NDD	24.243	24.323	0.08
514	5e+12	NDD	24.843	24.883	0.04
577	1e+13	NDD	24.563	24.883	0.32
634	1e+12	NDD	24.443	24.643	0.2
635	5e+12	NDD	24.323	24.683	0.36
713	1e+13	NDD	24.483	25.123	0.64
732	0	CORRELATION	24.643	24.683	0.04
742	0	CORRELATION	24.443	24.603	0.16
879	0	CORRELATION	24.643	24.723	0.08
880	0	CORRELATION	24.323	24.323	0

Test Statistics (ms)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	24.323	24.513	24.643	0.1579	24.323	24.583	24.723	0.18037	0	0.07	0.16	0.068313
1e+12	24.203	24.383	24.643	0.20265	24.283	24.473	24.643	0.19698	0	0.09	0.2	0.082462
5e+12	24.283	24.433	24.843	0.27398	24.443	24.663	24.883	0.18037	0.04	0.23	0.36	0.1579
1e+13	24.163	24.463	24.643	0.2104	24.803	24.953	25.123	0.14	0.32	0.49	0.64	0.17397

Device Test: 22.8 LEVEL|RISE/COMP/5////@V_COMP_SD

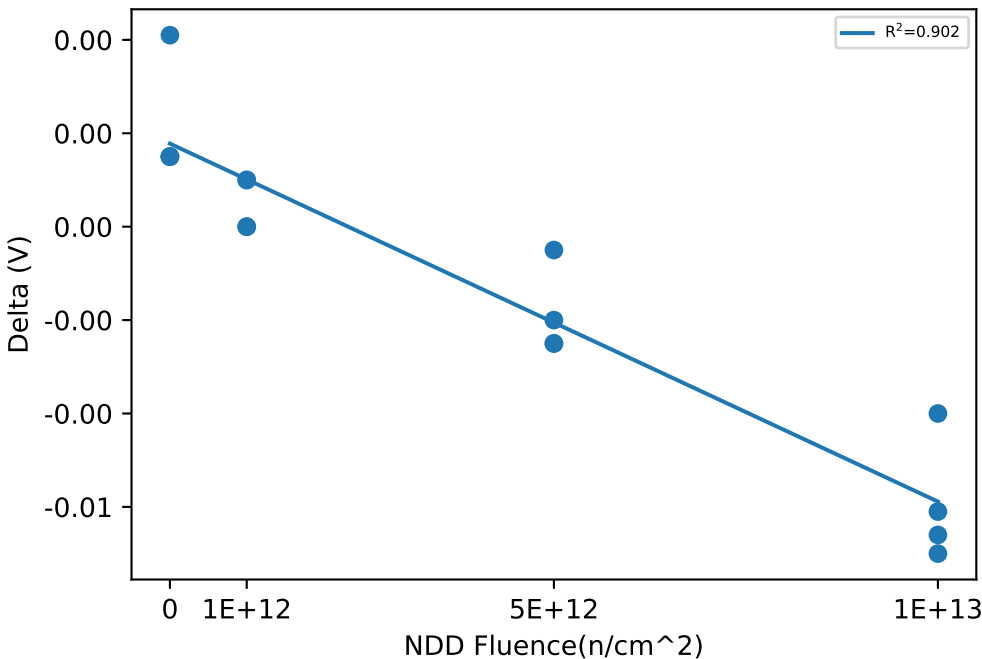
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.9058	1.9068	0.001
229	5e+12	NDD	1.9018	1.8998	-0.002
260	1e+13	NDD	1.9123	1.9053	-0.007
301	1e+12	NDD	1.9123	1.9123	0
362	5e+12	NDD	1.9002	1.8977	-0.0025
365	1e+13	NDD	1.9033	1.8967	-0.0066
439	1e+12	NDD	1.9043	1.9053	0.001
514	5e+12	NDD	1.8947	1.8942	-0.0005
577	1e+13	NDD	1.8922	1.8882	-0.004
634	1e+12	NDD	1.9053	1.9053	0
635	5e+12	NDD	1.8942	1.8917	-0.0025
713	1e+13	NDD	1.9023	1.8962	-0.0061
732	0	CORRELATION	1.8927	1.8942	0.0015
742	0	CORRELATION	1.8972	1.8987	0.0015
879	0	CORRELATION	1.8952	1.8993	0.0041
880	0	CORRELATION	1.9063	1.9078	0.0015

NDD vs Post - Pre Exposure Delta

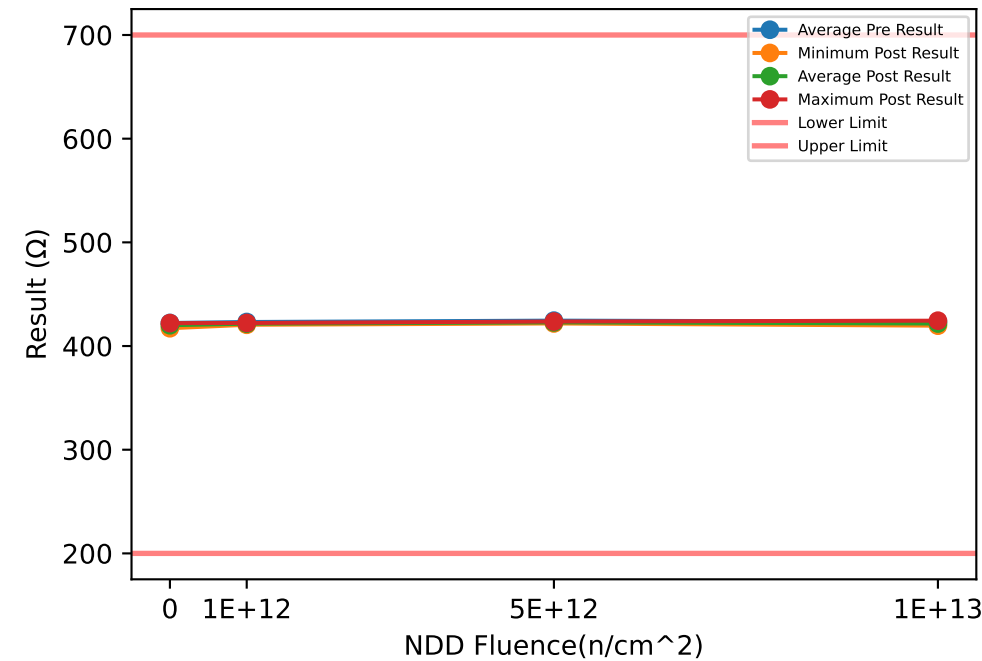


Test Statistics (V)

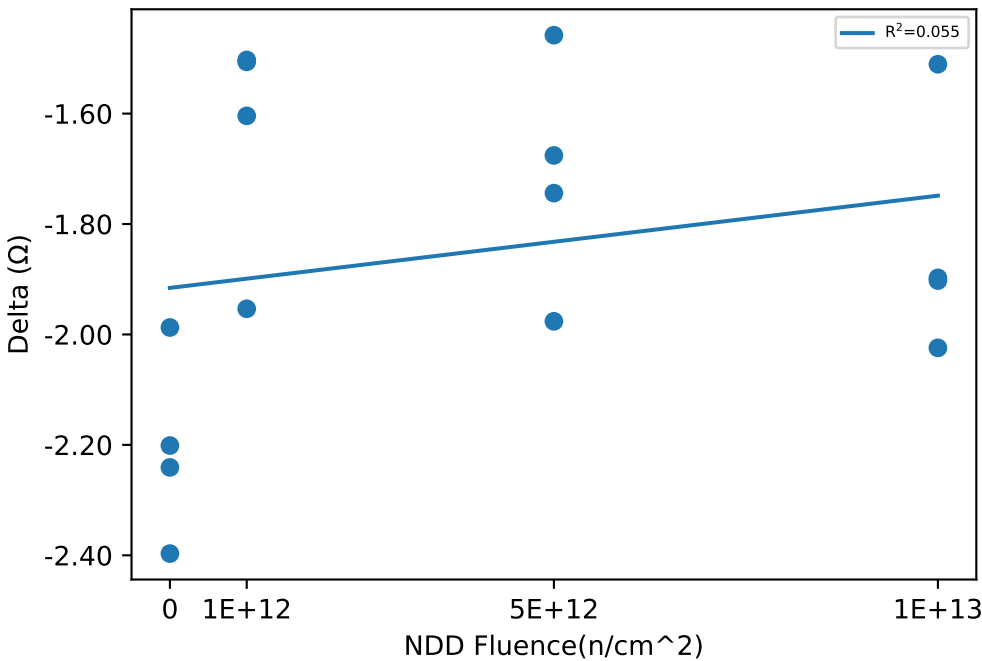
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.8927	1.8979	1.9063	0.0059265	1.8942	1.9	1.9078	0.0056763	0.0015	0.00215	0.0041	0.0013
1e+12	1.9043	1.9069	1.9123	0.0036372	1.9053	1.9074	1.9123	0.003326	0	0.0005	0.001	0.00057735
5e+12	1.8942	1.8977	1.9018	0.0038431	1.8917	1.8959	1.8998	0.0036042	-0.0025	-0.001875	-0.0005	0.00094648
1e+13	1.8922	1.9025	1.9123	0.0082221	1.8882	1.8966	1.9053	0.0069862	-0.007	-0.005925	-0.004	0.0013351

Device Test: 22.9 LEVEL|SINK/SS_TR/5////@R_SS_DISCHARGE

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



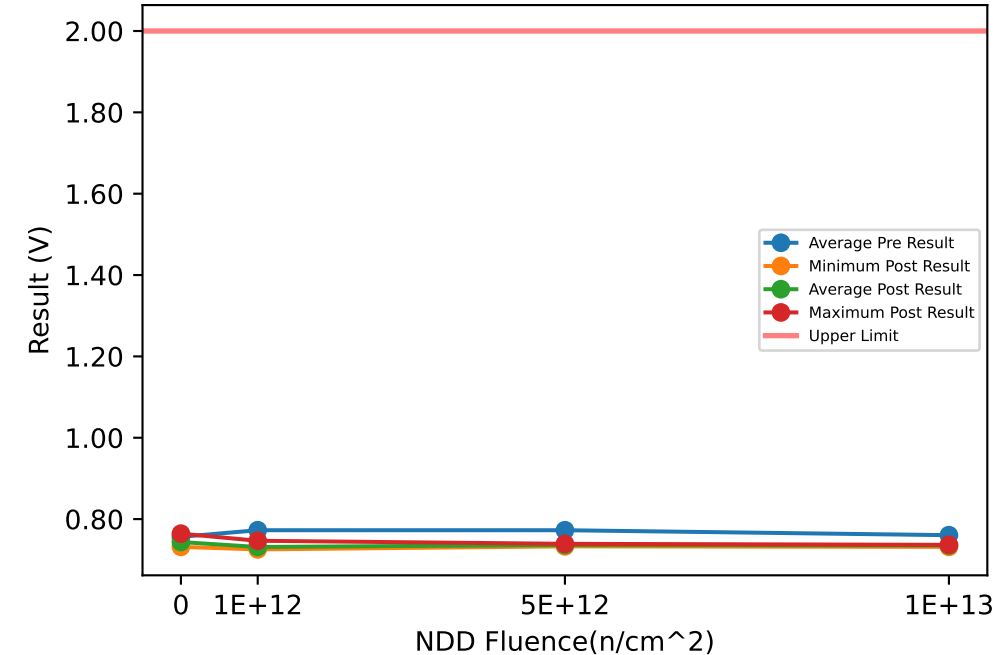
Test Results (Lower Limit = 200.0, Upper Limit = 700.0 (Ω))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	423.76	422.26	-1.5063
229	5e+12	NDD	423.23	421.77	-1.458
260	1e+13	NDD	421.14	419.63	-1.5106
301	1e+12	NDD	423.09	421.59	-1.5028
362	5e+12	NDD	424.59	422.84	-1.744
365	1e+13	NDD	423.69	421.79	-1.8975
439	1e+12	NDD	423.46	421.86	-1.6041
514	5e+12	NDD	425.34	423.66	-1.6758
577	1e+13	NDD	426.49	424.46	-2.0243
634	1e+12	NDD	422.45	420.5	-1.9535
635	5e+12	NDD	424.9	422.92	-1.9762
713	1e+13	NDD	422.85	420.95	-1.9024
732	0	CORRELATION	423.72	421.47	-2.2408
742	0	CORRELATION	424.49	422.09	-2.3969
879	0	CORRELATION	419.15	417.17	-1.9874
880	0	CORRELATION	421.66	419.45	-2.2012

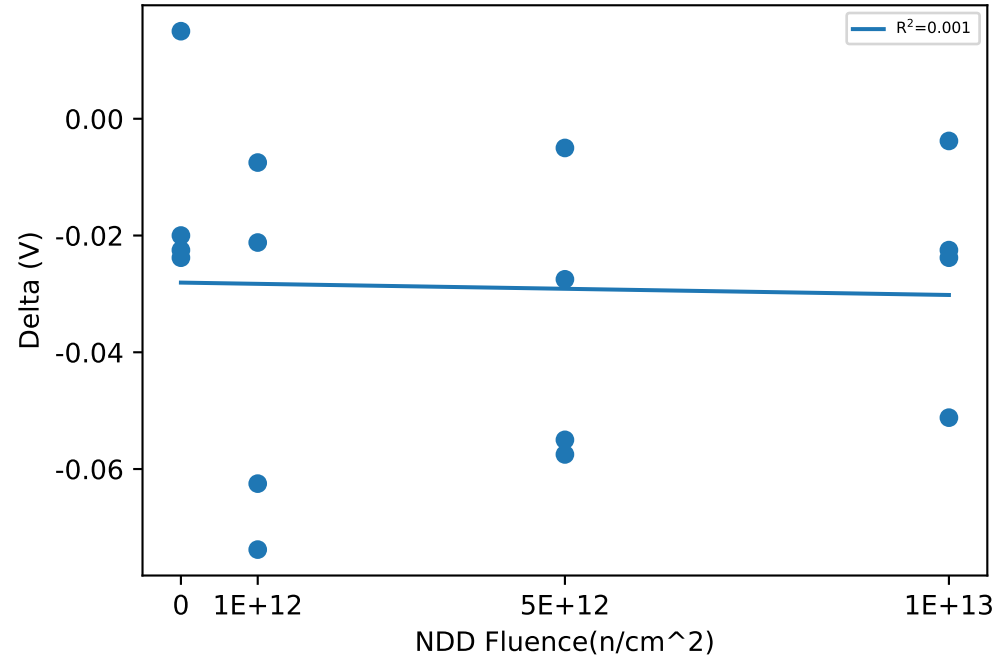
Test Statistics (Ω)

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	419.15	422.25	424.49	2.3868	417.17	420.05	422.09	2.2257	-2.3969	-2.2066	-1.9874	0.16878
1e+12	422.45	423.19	423.76	0.5651	420.5	421.55	422.26	0.75354	-1.9535	-1.6417	-1.5028	0.21312
5e+12	423.23	424.51	425.34	0.91131	421.77	422.8	423.66	0.78018	-1.9762	-1.7135	-1.458	0.21342
1e+13	421.14	423.54	426.49	2.23	419.63	421.71	424.46	2.039	-2.0243	-1.8337	-1.5106	0.22324

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



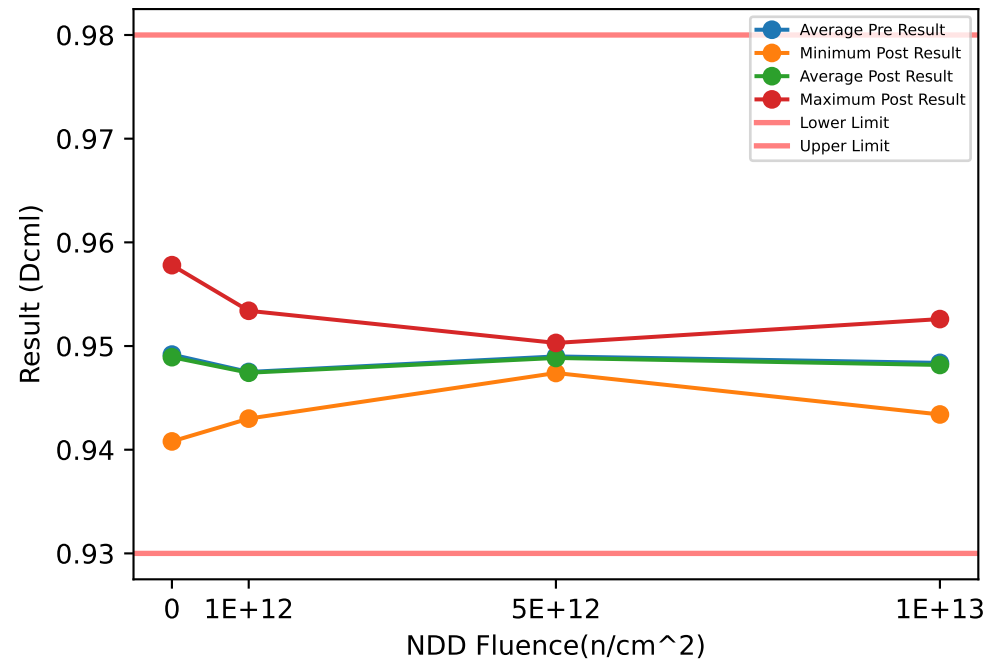
Test Results (Upper Limit = 2.0 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.8205	0.7467	-0.0738
229	5e+12	NDD	0.7967	0.7392	-0.0575
260	1e+13	NDD	0.7867	0.7355	-0.0512
301	1e+12	NDD	0.7892	0.7267	-0.0625
362	5e+12	NDD	0.7892	0.7342	-0.055
365	1e+13	NDD	0.7605	0.7367	-0.0238
439	1e+12	NDD	0.7467	0.7255	-0.0212
514	5e+12	NDD	0.7605	0.733	-0.0275
577	1e+13	NDD	0.7592	0.7367	-0.0225
634	1e+12	NDD	0.7342	0.7267	-0.0075
635	5e+12	NDD	0.7442	0.7392	-0.005
713	1e+13	NDD	0.7355	0.7317	-0.0038
732	0	CORRELATION	0.788	0.7642	-0.0238
742	0	CORRELATION	0.7655	0.7455	-0.02
879	0	CORRELATION	0.7555	0.733	-0.0225
880	0	CORRELATION	0.7167	0.7317	0.015

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	0.7167	0.75643	0.788	0.029767	0.7317	0.7436	0.7642	0.015077	-0.0238	-0.012825	0.015	0.018617
1e+12	0.7342	0.77265	0.8205	0.039646	0.7255	0.7314	0.7467	0.010216	-0.0738	-0.04125	-0.0075	0.031896
5e+12	0.7442	0.77265	0.7967	0.024558	0.733	0.7364	0.7392	0.0032701	-0.0575	-0.03625	-0.005	0.024875
1e+13	0.7355	0.76048	0.7867	0.020922	0.7317	0.73515	0.7367	0.0023685	-0.0512	-0.025325	-0.0038	0.01952

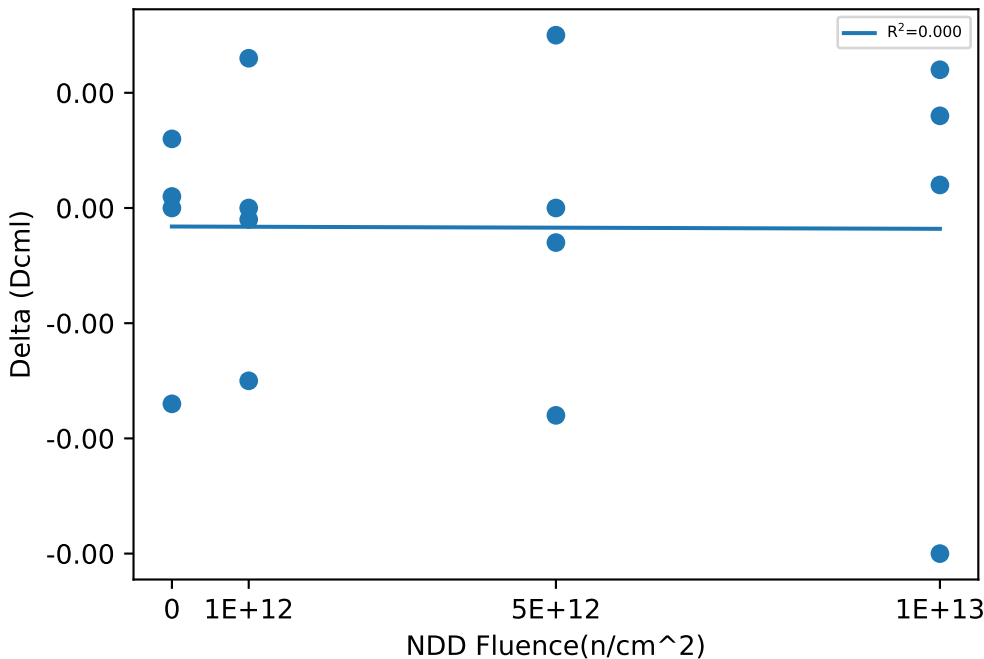
NDD vs Result Stats



Test Results (Lower Limit = 0.93, Upper Limit = 0.98 (Dcml))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9459	0.9459	0
229	5e+12	NDD	0.9493	0.9493	0
260	1e+13	NDD	0.9451	0.9459	0.0008
301	1e+12	NDD	0.9445	0.943	-0.0015
362	5e+12	NDD	0.9492	0.9474	-0.0018
365	1e+13	NDD	0.9464	0.9434	-0.003
439	1e+12	NDD	0.9461	0.9474	0.0013
514	5e+12	NDD	0.9487	0.9484	-0.0003
577	1e+13	NDD	0.9524	0.9526	0.0002
634	1e+12	NDD	0.9535	0.9534	-0.0001
635	5e+12	NDD	0.9488	0.9503	0.0015
713	1e+13	NDD	0.9496	0.9508	0.0012
732	0	CORRELATION	0.9441	0.9441	0
742	0	CORRELATION	0.9425	0.9408	-0.0017
879	0	CORRELATION	0.9572	0.9578	0.0006
880	0	CORRELATION	0.9529	0.953	0.0001

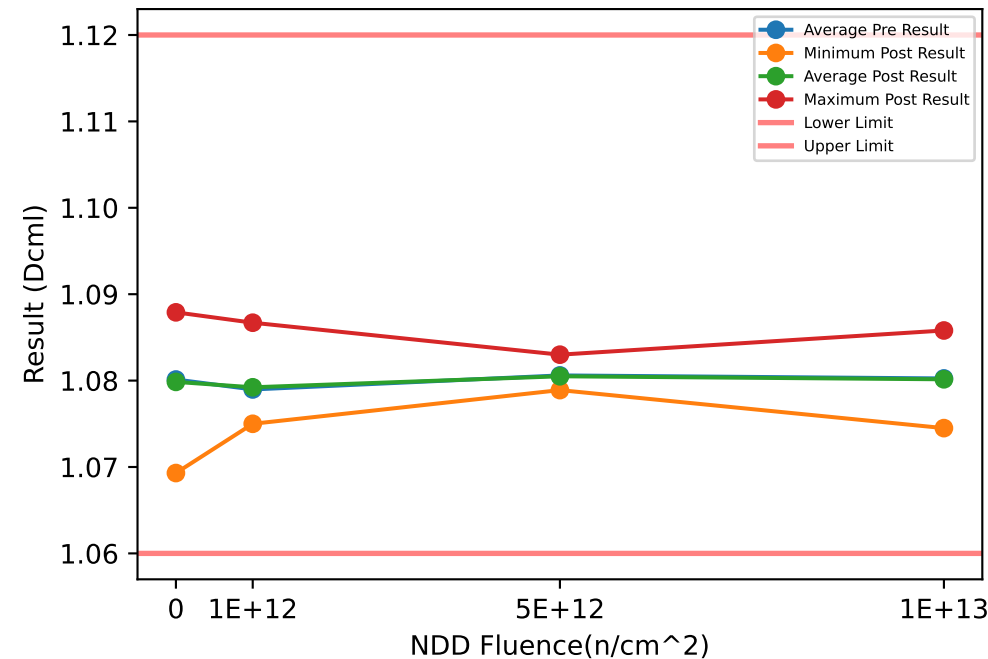
NDD vs Post - Pre Exposure Delta



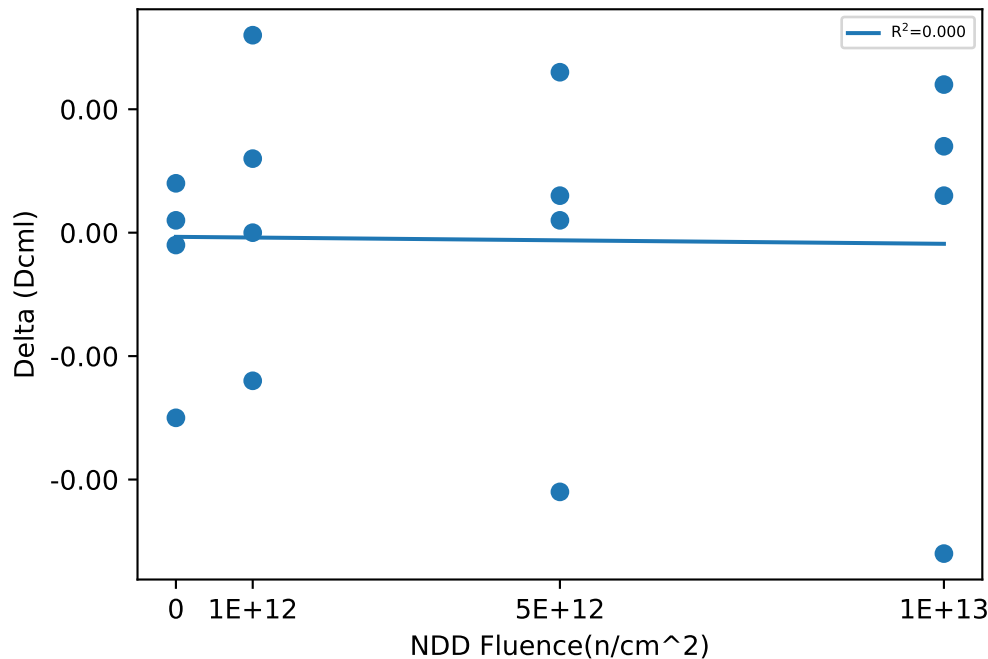
Test Statistics (Dcml)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9425	0.94917	0.9572	0.0070377	0.9408	0.94893	0.9578	0.0078458	-0.0017	-0.00025	0.0006	0.0010017
1e+12	0.9445	0.9475	0.9535	0.0040628	0.943	0.94742	0.9534	0.0043821	-0.0015	-7.5e-05	0.0013	0.0011442
5e+12	0.9487	0.949	0.9493	0.00029439	0.9474	0.94885	0.9503	0.0012396	-0.0018	-0.00015	0.0015	0.0013528
1e+13	0.9451	0.94837	0.9524	0.0032827	0.9434	0.94817	0.9526	0.0042602	-0.003	-0.0002	0.0012	0.0019114

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



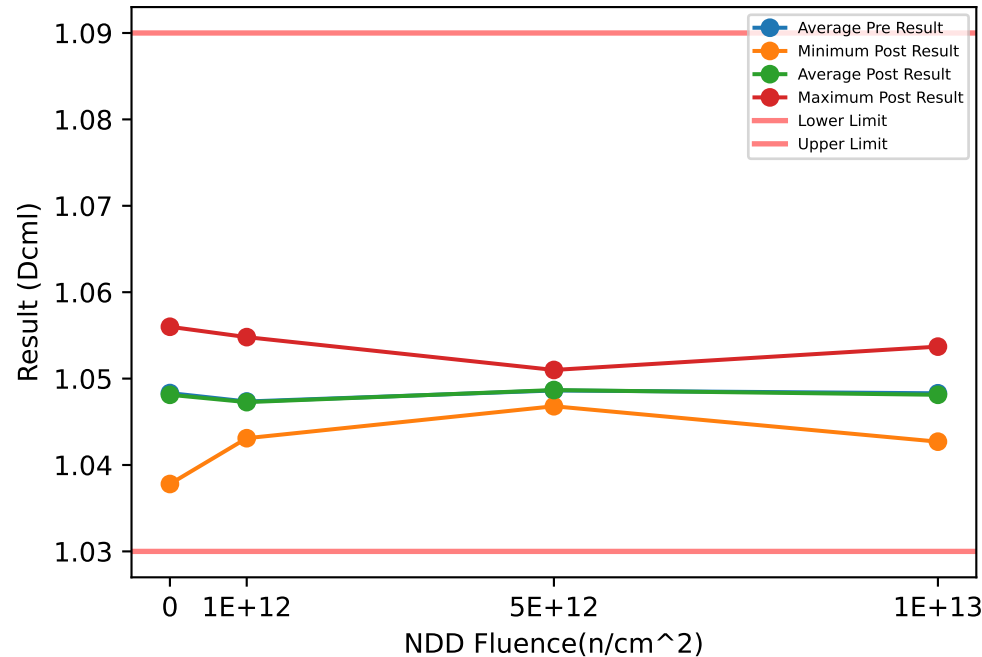
Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0755	1.0755	0
229	5e+12	NDD	1.0786	1.0789	0.0003
260	1e+13	NDD	1.0765	1.0768	0.0003
301	1e+12	NDD	1.0762	1.075	-0.0012
362	5e+12	NDD	1.0817	1.0796	-0.0021
365	1e+13	NDD	1.0771	1.0745	-0.0026
439	1e+12	NDD	1.0781	1.0797	0.0016
514	5e+12	NDD	1.0829	1.083	0.0001
577	1e+13	NDD	1.0828	1.0835	0.0007
634	1e+12	NDD	1.0861	1.0867	0.0006
635	5e+12	NDD	1.0792	1.0805	0.0013
713	1e+13	NDD	1.0846	1.0858	0.0012
732	0	CORRELATION	1.0762	1.0761	-0.0001
742	0	CORRELATION	1.0708	1.0693	-0.0015
879	0	CORRELATION	1.0875	1.0879	0.0004
880	0	CORRELATION	1.086	1.0861	0.0001

Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0708	1.0801	1.0875	0.0079847	1.0693	1.0798	1.0879	0.0087413	-0.0015	-0.000275	0.0004	0.00084212
1e+12	1.0755	1.079	1.0861	0.0048754	1.075	1.0792	1.0867	0.0054107	-0.0012	0.00025	0.0016	0.0011705
5e+12	1.0786	1.0806	1.0829	0.002038	1.0789	1.0805	1.083	0.0017907	-0.0021	-0.0001	0.0013	0.0014329
1e+13	1.0765	1.0802	1.0846	0.0040583	1.0745	1.0801	1.0858	0.0053631	-0.0026	-0.0001	0.0012	0.0017068

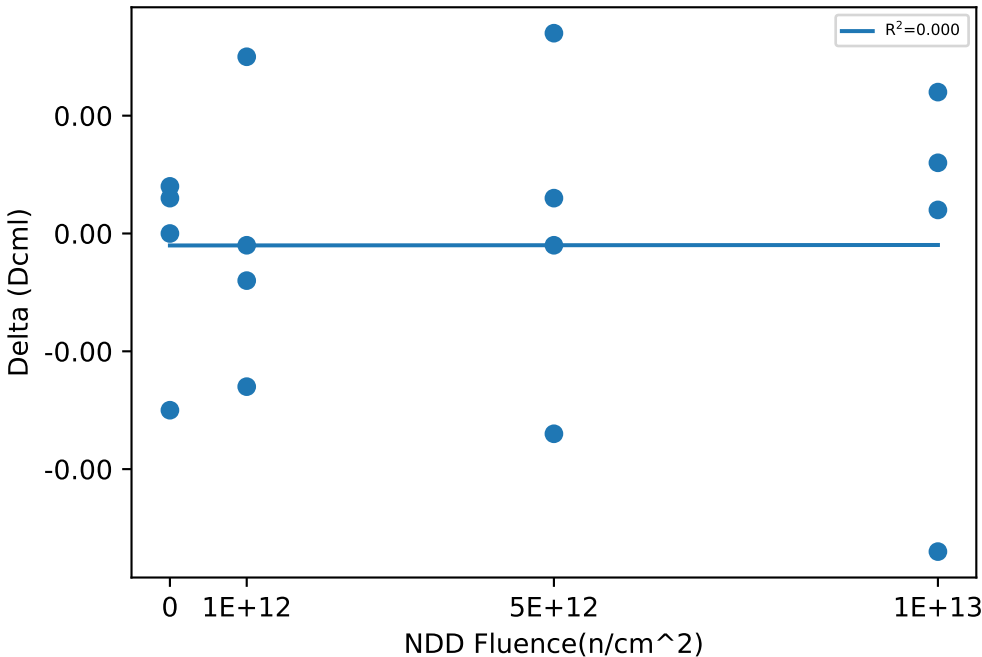
NDD vs Result Stats



Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0438	1.0434	-0.0004
229	5e+12	NDD	1.0469	1.0468	-0.0001
260	1e+13	NDD	1.0444	1.045	0.0006
301	1e+12	NDD	1.0444	1.0431	-0.0013
362	5e+12	NDD	1.0496	1.0479	-0.0017
365	1e+13	NDD	1.0454	1.0427	-0.0027
439	1e+12	NDD	1.0463	1.0478	0.0015
514	5e+12	NDD	1.0507	1.051	0.0003
577	1e+13	NDD	1.0509	1.0511	0.0002
634	1e+12	NDD	1.0549	1.0548	-0.0001
635	5e+12	NDD	1.0473	1.049	0.0017
713	1e+13	NDD	1.0525	1.0537	0.0012
732	0	CORRELATION	1.0445	1.0448	0.0003
742	0	CORRELATION	1.0393	1.0378	-0.0015
879	0	CORRELATION	1.0556	1.056	0.0004
880	0	CORRELATION	1.0539	1.0539	0

NDD vs Post - Pre Exposure Delta

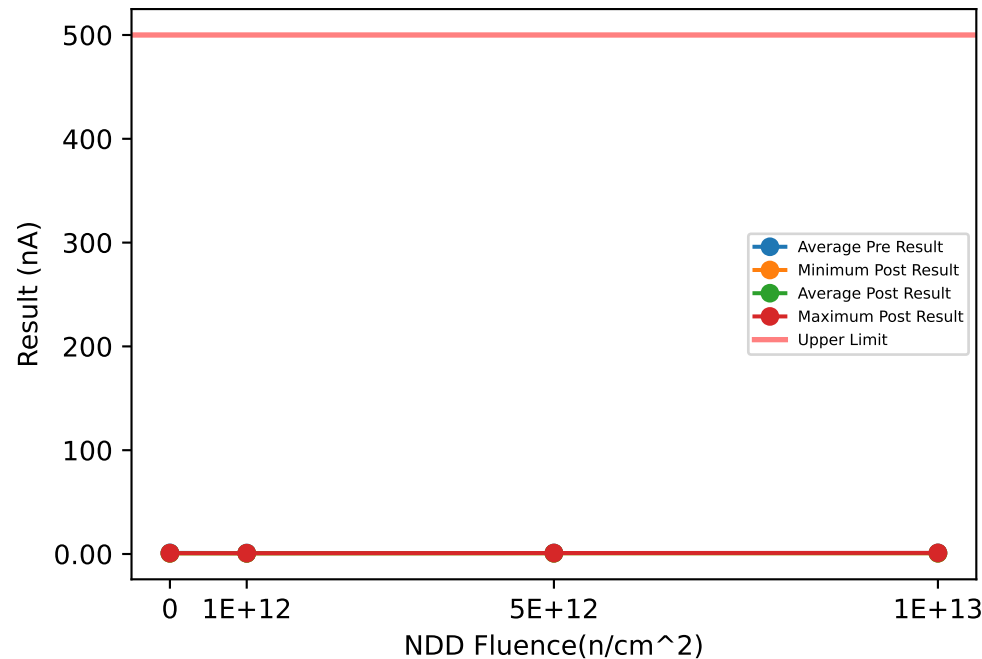


Test Statistics (Dcml)

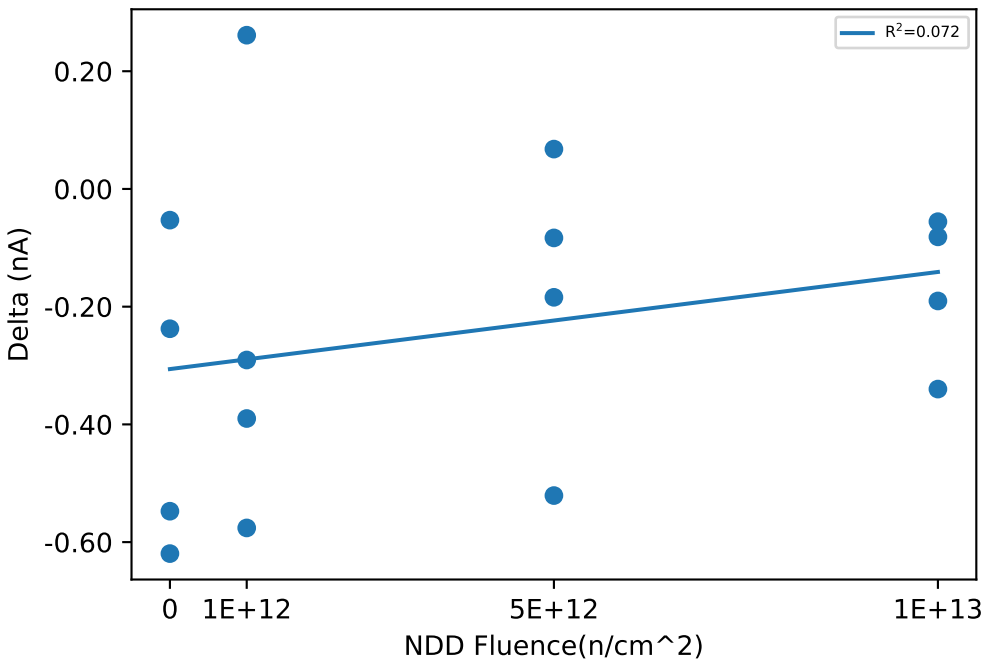
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0393	1.0483	1.0556	0.00777478	1.0378	1.0481	1.056	0.0084267	-0.0015	-0.0002	0.0004	0.00088318
1e+12	1.0438	1.0474	1.0549	0.0051449	1.0431	1.0473	1.0548	0.0054573	-0.0013	-7.5e-05	0.0015	0.0011673
5e+12	1.0469	1.0486	1.0507	0.0018246	1.0468	1.0487	1.051	0.0017914	-0.0017	5e-05	0.0017	0.0013988
1e+13	1.0444	1.0483	1.0525	0.0040008	1.0427	1.0481	1.0537	0.0051357	-0.0027	-0.000175	0.0012	0.0017328

Device Test: 23.13 LEAK|MAX/PWRGD/5////@PWRGD_OUTPUT_HIGH_LEAK

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



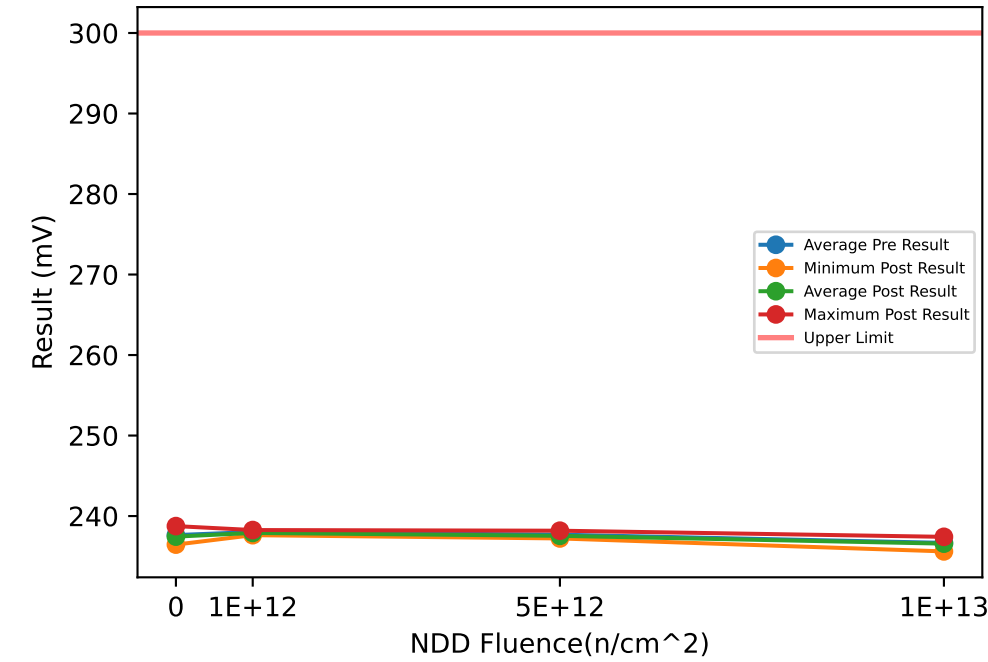
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.2838	0.7079	-0.5759
229	5e+12	NDD	0.76	0.6768	-0.0832
260	1e+13	NDD	0.7137	0.6581	-0.0556
301	1e+12	NDD	1.003	0.613	-0.39
362	5e+12	NDD	1.4805	0.9596	-0.5209
365	1e+13	NDD	0.8661	0.7847	-0.0814
439	1e+12	NDD	0.5577	0.8189	0.2612
514	5e+12	NDD	0.9655	0.7814	-0.1841
577	1e+13	NDD	1.418	1.078	-0.34
634	1e+12	NDD	0.8754	0.5848	-0.2906
635	5e+12	NDD	0.6357	0.7034	0.0677
713	1e+13	NDD	1.003	0.8127	-0.1903
732	0	CORRELATION	1.1745	0.627	-0.5475
742	0	CORRELATION	0.8973	0.6598	-0.2375
879	0	CORRELATION	0.9343	0.8813	-0.053
880	0	CORRELATION	1.3212	0.7017	-0.6195

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	0.8973	1.0818	1.3212	0.20141	0.627	0.71745	0.8813	0.11343	-0.6195	-0.36438	-0.053	0.26563
1e+12	0.5577	0.92997	1.2838	0.30116	0.5848	0.68115	0.8189	0.10586	-0.5759	-0.24882	0.2612	0.35999
5e+12	0.6357	0.96042	1.4805	0.37243	0.6768	0.7803	0.9596	0.12751	-0.5209	-0.18013	0.0677	0.24964
1e+13	0.7137	1.0002	1.418	0.30256	0.6581	0.83337	1.078	0.17641	-0.34	-0.16682	-0.0556	0.12937

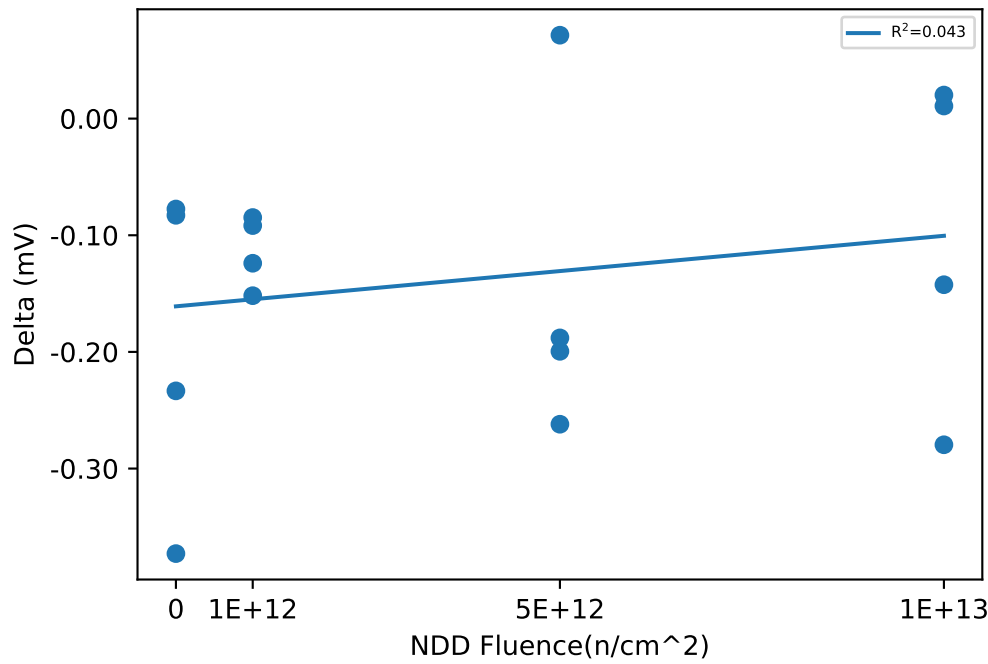
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	238.39	238.26	-0.124
229	5e+12	NDD	237.58	237.39	-0.188
260	1e+13	NDD	237.4	237.42	0.0202
301	1e+12	NDD	237.71	237.63	-0.0848
362	5e+12	NDD	237.48	237.22	-0.262
365	1e+13	NDD	235.89	235.61	-0.2796
439	1e+12	NDD	237.76	237.67	-0.0917
514	5e+12	NDD	238.38	238.18	-0.1995
577	1e+13	NDD	236.5	236.35	-0.1424
634	1e+12	NDD	238.22	238.06	-0.1518
635	5e+12	NDD	237.32	237.39	0.0715
713	1e+13	NDD	236.9	236.91	0.0108
732	0	CORRELATION	238.29	238.06	-0.2334
742	0	CORRELATION	236.83	236.45	-0.3729
879	0	CORRELATION	238.83	238.75	-0.0829
880	0	CORRELATION	236.59	236.51	-0.0775

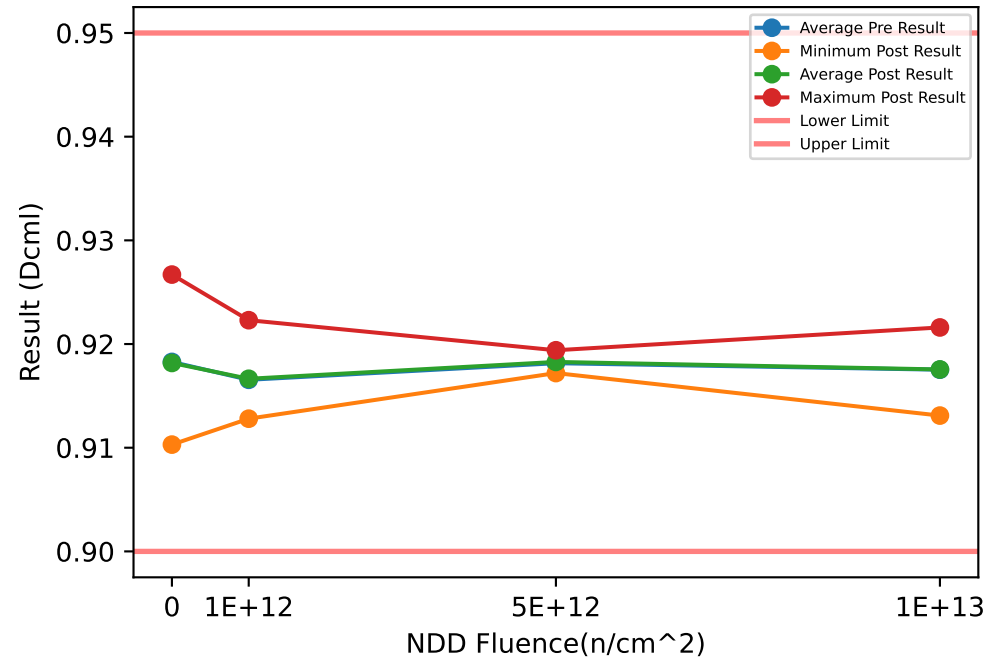
NDD vs Post - Pre Exposure Delta



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	236.59	237.64	238.83	1.0977	236.45	237.44	238.75	1.1452	-0.3729	-0.19168	-0.0775	0.14077
1e+12	237.71	238.02	238.39	0.33547	237.63	237.9	238.26	0.31015	-0.1518	-0.11308	-0.0848	0.030959
5e+12	237.32	237.69	238.38	0.47281	237.22	237.55	238.18	0.43192	-0.262	-0.1445	0.0715	0.14763
1e+13	235.89	236.67	237.4	0.6381	235.61	236.57	237.42	0.7752	-0.2796	-0.09775	0.0202	0.14231

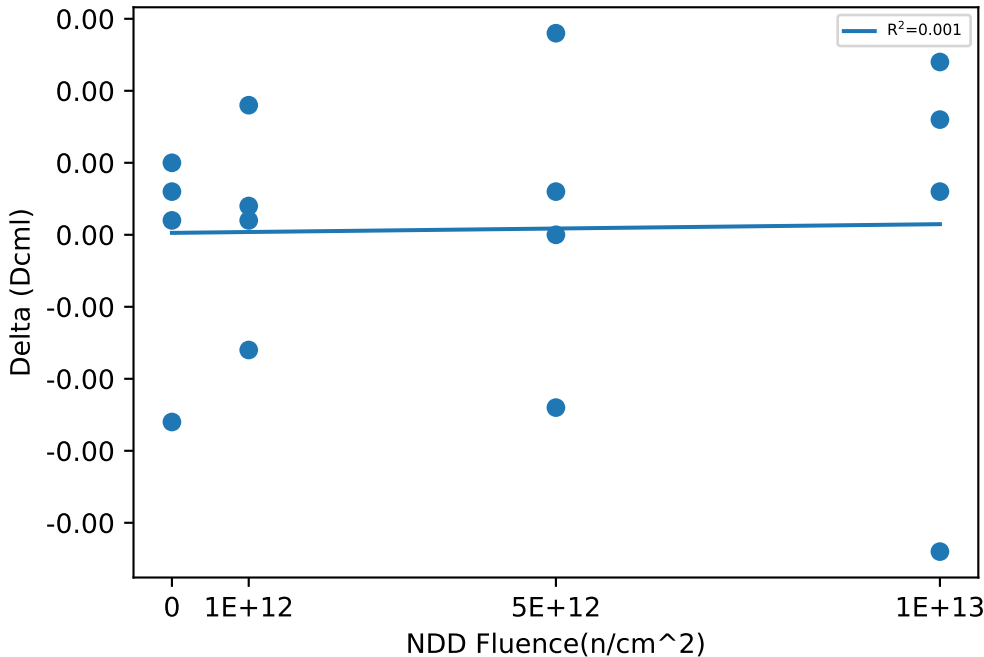
NDD vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 0.95 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9149	0.9151	0.0002
229	5e+12	NDD	0.9184	0.9187	0.0003
260	1e+13	NDD	0.9145	0.9157	0.0012
301	1e+12	NDD	0.9136	0.9128	-0.0008
362	5e+12	NDD	0.9184	0.9172	-0.0012
365	1e+13	NDD	0.9153	0.9131	-0.0022
439	1e+12	NDD	0.9155	0.9164	0.0009
514	5e+12	NDD	0.9178	0.9178	0
577	1e+13	NDD	0.9213	0.9216	0.0003
634	1e+12	NDD	0.9222	0.9223	0.0001
635	5e+12	NDD	0.918	0.9194	0.0014
713	1e+13	NDD	0.919	0.9198	0.0008
732	0	CORRELATION	0.9134	0.9135	0.0001
742	0	CORRELATION	0.9116	0.9103	-0.0013
879	0	CORRELATION	0.9262	0.9267	0.0005
880	0	CORRELATION	0.9219	0.9222	0.0003

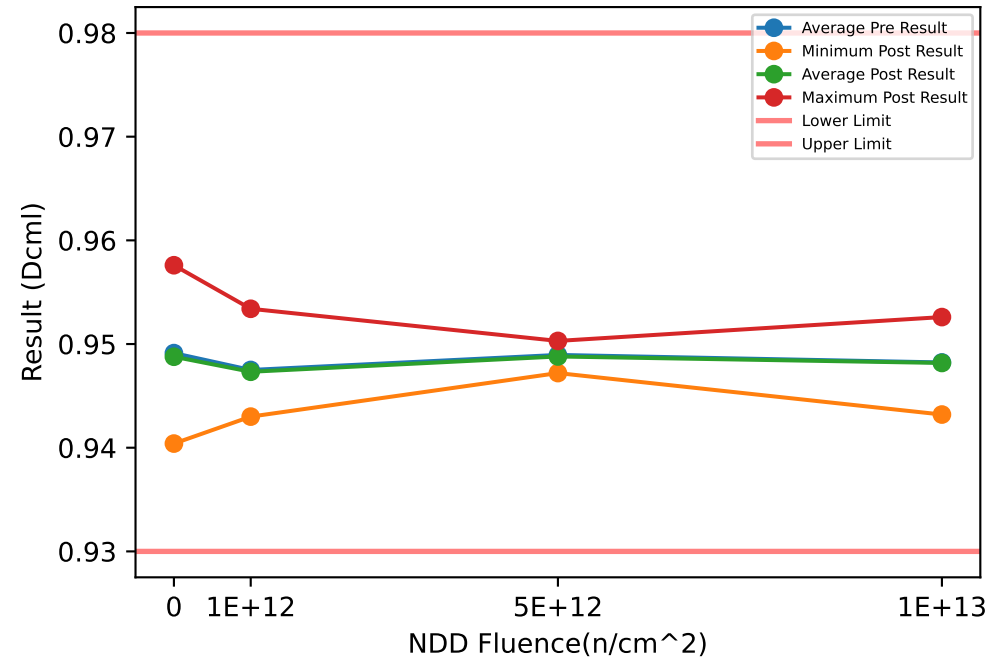
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9116	0.91827	0.9262	0.0069346	0.9103	0.91817	0.9267	0.0075883	-0.0013	-0.0001	0.0005	0.0008165
1e+12	0.9136	0.91655	0.9222	0.0038492	0.9128	0.91665	0.9223	0.0040501	-0.0008	0.0001	0.0009	0.00069761
5e+12	0.9178	0.91815	0.9184	0.0003	0.9172	0.91827	0.9194	0.00097082	-0.0012	0.000125	0.0014	0.0010689
1e+13	0.9145	0.91753	0.9213	0.00319	0.9131	0.91755	0.9216	0.0038596	-0.0022	2.5e-05	0.0012	0.0015283

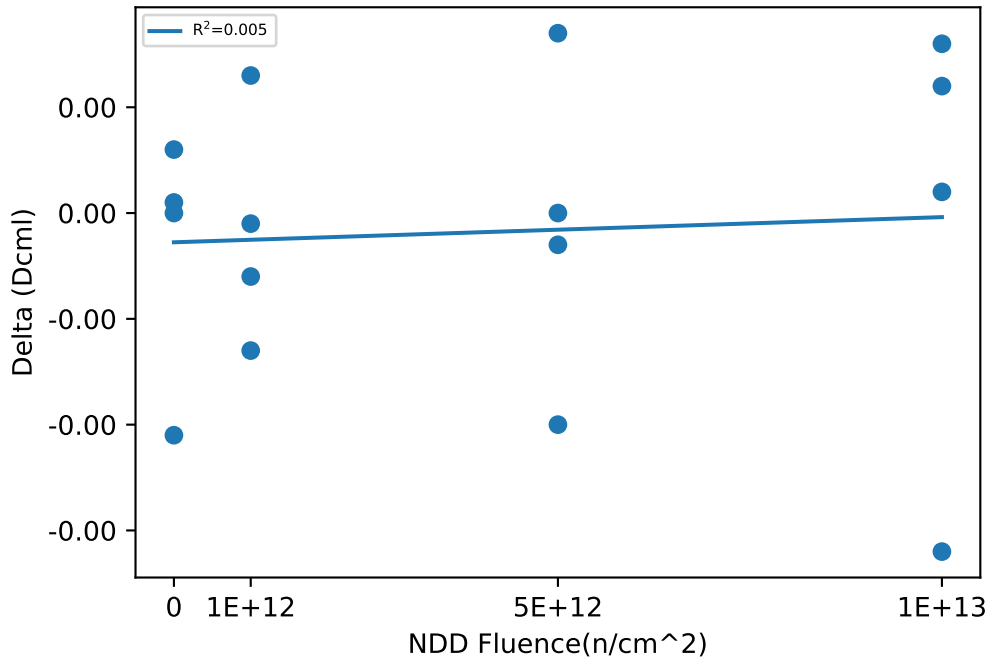
NDD vs Result Stats



Test Results (Lower Limit = 0.93, Upper Limit = 0.98 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9461	0.9455	-0.0006
229	5e+12	NDD	0.9493	0.9493	0
260	1e+13	NDD	0.9445	0.9461	0.0016
301	1e+12	NDD	0.9443	0.943	-0.0013
362	5e+12	NDD	0.9492	0.9472	-0.002
365	1e+13	NDD	0.9464	0.9432	-0.0032
439	1e+12	NDD	0.9461	0.9474	0.0013
514	5e+12	NDD	0.9487	0.9484	-0.0003
577	1e+13	NDD	0.9524	0.9526	0.0002
634	1e+12	NDD	0.9535	0.9534	-0.0001
635	5e+12	NDD	0.9486	0.9503	0.0017
713	1e+13	NDD	0.9496	0.9508	0.0012
732	0	CORRELATION	0.9441	0.9441	0
742	0	CORRELATION	0.9425	0.9404	-0.0021
879	0	CORRELATION	0.957	0.9576	0.0006
880	0	CORRELATION	0.9529	0.953	0.0001

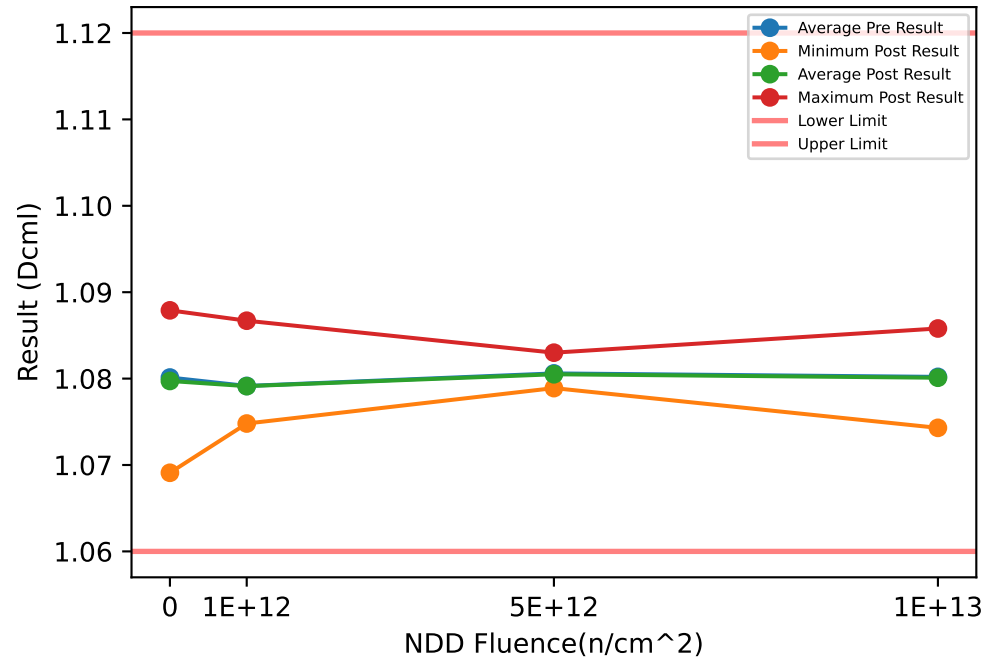
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9425	0.94912	0.957	0.006962	0.9404	0.94878	0.9576	0.0079105	-0.0021	-0.00035	0.0006	0.0011958
1e+12	0.9443	0.9475	0.9535	0.004089	0.943	0.94732	0.9534	0.0044327	-0.0013	-0.000175	0.0013	0.0010996
5e+12	0.9486	0.94895	0.9493	0.00035119	0.9472	0.9488	0.9503	0.0013191	-0.002	-0.00015	0.0017	0.0015155
1e+13	0.9445	0.94822	0.9524	0.0034894	0.9432	0.94817	0.9526	0.0043022	-0.0032	-5e-05	0.0016	0.002181

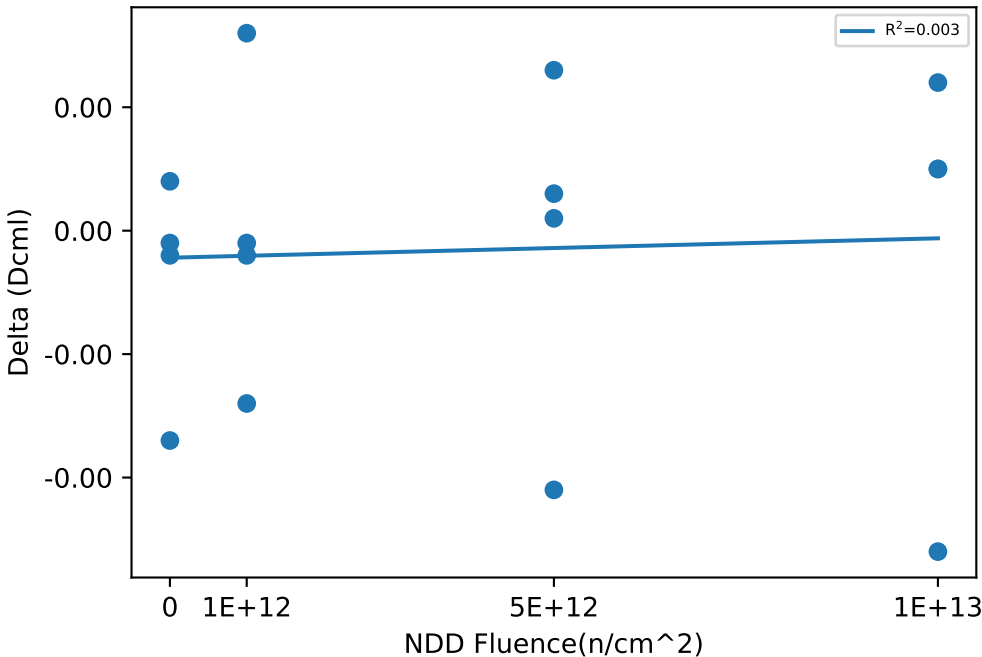
NDD vs Result Stats



Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0755	1.0753	-0.0002
229	5e+12	NDD	1.0786	1.0789	0.0003
260	1e+13	NDD	1.0765	1.077	0.0005
301	1e+12	NDD	1.0762	1.0748	-0.0014
362	5e+12	NDD	1.0817	1.0796	-0.0021
365	1e+13	NDD	1.0769	1.0743	-0.0026
439	1e+12	NDD	1.0781	1.0797	0.0016
514	5e+12	NDD	1.0829	1.083	0.0001
577	1e+13	NDD	1.0828	1.0833	0.0005
634	1e+12	NDD	1.0868	1.0867	-0.0001
635	5e+12	NDD	1.0792	1.0805	0.0013
713	1e+13	NDD	1.0846	1.0858	0.0012
732	0	CORRELATION	1.0762	1.0761	-0.0001
742	0	CORRELATION	1.0708	1.0691	-0.0017
879	0	CORRELATION	1.0875	1.0879	0.0004
880	0	CORRELATION	1.086	1.0858	-0.0002

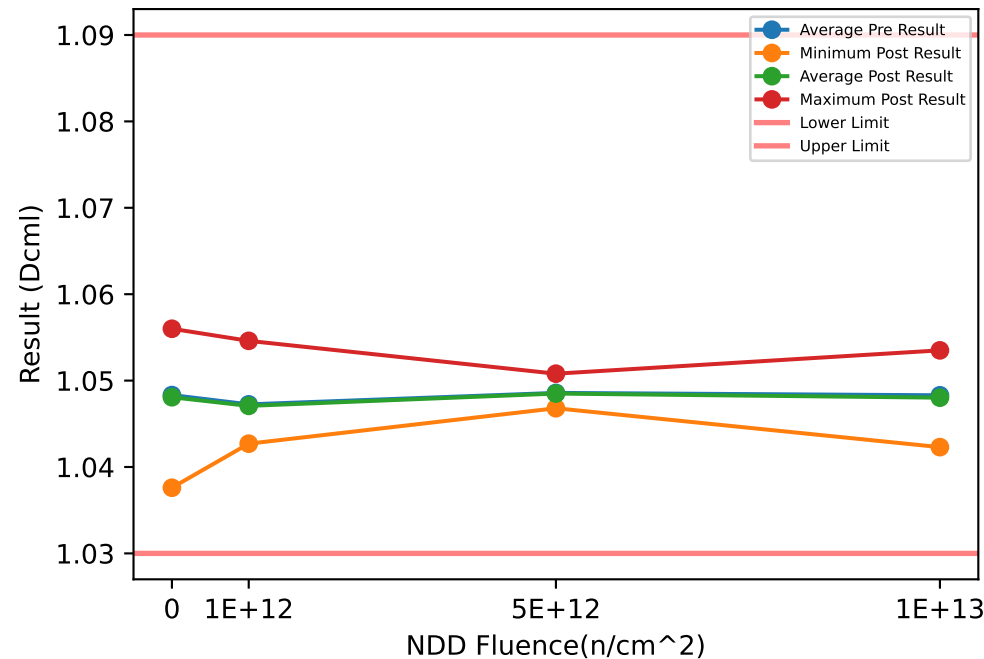
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0708	1.0801	1.0875	0.0079847	1.0691	1.0797	1.0879	0.0087515	-0.0017	-0.0004	0.0004	0.00090554
1e+12	1.0755	1.0792	1.0868	0.005217	1.0748	1.0791	1.0867	0.005509	-0.0014	-2.5e-05	0.0016	0.0012339
5e+12	1.0786	1.0806	1.0829	0.002038	1.0789	1.0805	1.083	0.0017907	-0.0021	-0.0001	0.0013	0.0014329
1e+13	1.0765	1.0802	1.0846	0.004111	1.0743	1.0801	1.0858	0.0053535	-0.0026	-0.0001	0.0012	0.001699

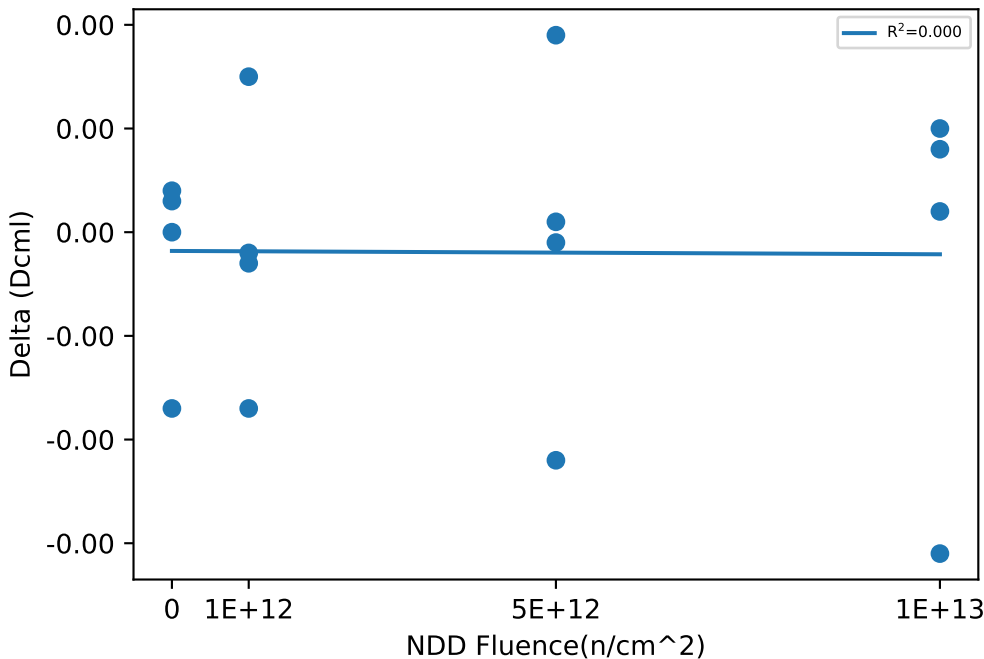
NDD vs Result Stats



Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0436	1.0434	-0.0002
229	5e+12	NDD	1.0469	1.0468	-0.0001
260	1e+13	NDD	1.0444	1.0452	0.0008
301	1e+12	NDD	1.0444	1.0427	-0.0017
362	5e+12	NDD	1.0496	1.0474	-0.0022
365	1e+13	NDD	1.0454	1.0423	-0.0031
439	1e+12	NDD	1.0461	1.0476	0.0015
514	5e+12	NDD	1.0507	1.0508	0.0001
577	1e+13	NDD	1.0509	1.0511	0.0002
634	1e+12	NDD	1.0549	1.0546	-0.0003
635	5e+12	NDD	1.0471	1.049	0.0019
713	1e+13	NDD	1.0525	1.0535	0.001
732	0	CORRELATION	1.0445	1.0448	0.0003
742	0	CORRELATION	1.0393	1.0376	-0.0017
879	0	CORRELATION	1.0556	1.056	0.0004
880	0	CORRELATION	1.0539	1.0539	0

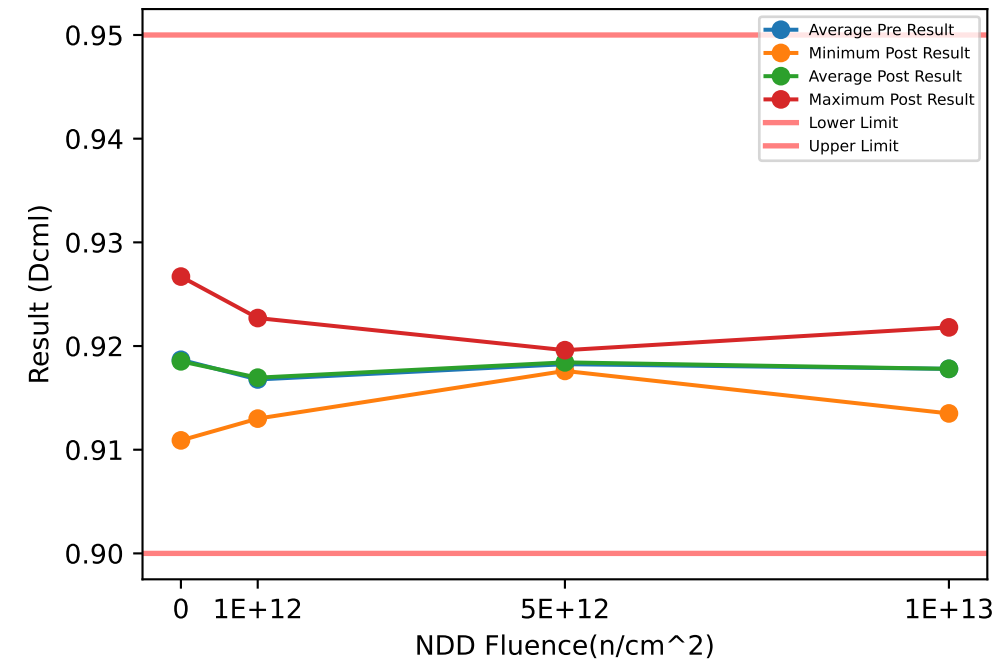
NDD vs Post - Pre Exposure Delta



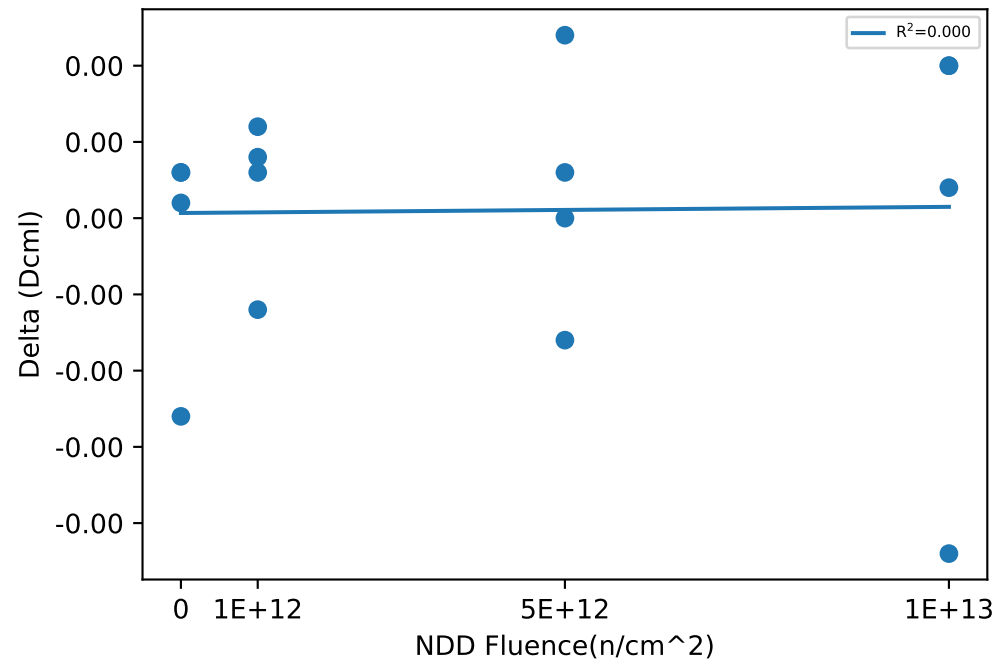
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0393	1.0483	1.0556	0.0077478	1.0376	1.0481	1.056	0.0085086	-0.0017	-0.00025	0.0004	0.0009815
1e+12	1.0436	1.0473	1.0549	0.0052054	1.0427	1.0471	1.0546	0.0054634	-0.0017	-0.000175	0.0015	0.0013099
5e+12	1.0469	1.0486	1.0507	0.0018751	1.0468	1.0485	1.0508	0.0017926	-0.0022	-7.5e-05	0.0019	0.001678
1e+13	1.0444	1.0483	1.0525	0.0040008	1.0423	1.048	1.0535	0.00517	-0.0031	-0.000275	0.001	0.0019138

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Lower Limit = 0.9, Upper Limit = 0.95 (Dcml))

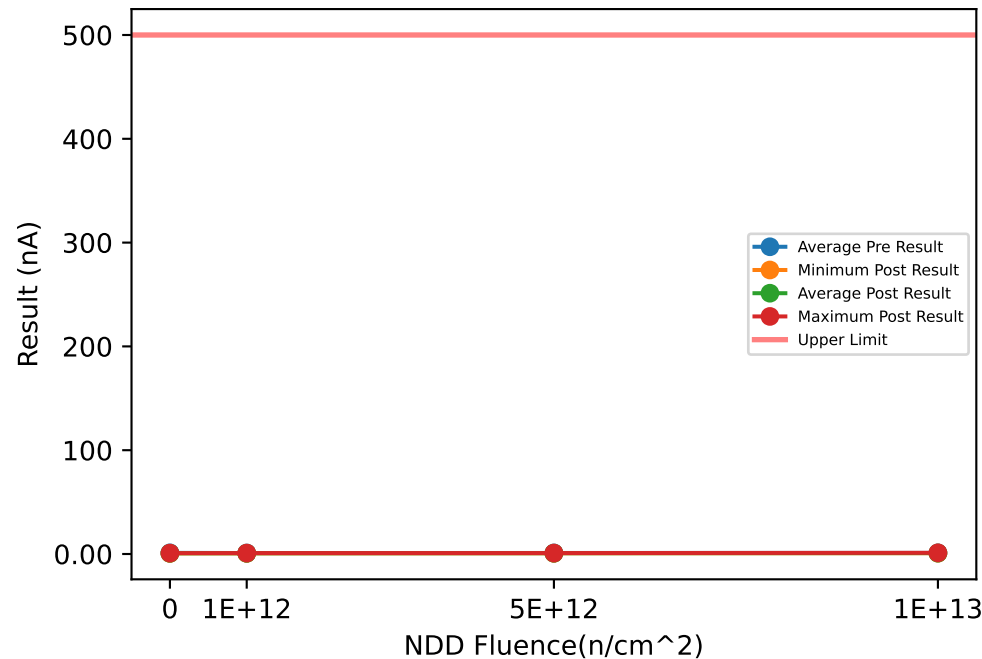
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9151	0.9155	0.0004
229	5e+12	NDD	0.9184	0.9187	0.0003
260	1e+13	NDD	0.9147	0.9157	0.001
301	1e+12	NDD	0.9136	0.913	-0.0006
362	5e+12	NDD	0.9184	0.9176	-0.0008
365	1e+13	NDD	0.9157	0.9135	-0.0022
439	1e+12	NDD	0.916	0.9166	0.0006
514	5e+12	NDD	0.9178	0.9178	0
577	1e+13	NDD	0.9216	0.9218	0.0002
634	1e+12	NDD	0.9224	0.9227	0.0003
635	5e+12	NDD	0.9184	0.9196	0.0012
713	1e+13	NDD	0.9192	0.9202	0.001
732	0	CORRELATION	0.9136	0.9139	0.0003
742	0	CORRELATION	0.9122	0.9109	-0.0013
879	0	CORRELATION	0.9266	0.9267	0.0001
880	0	CORRELATION	0.9223	0.9226	0.0003

Test Statistics (Dcml)

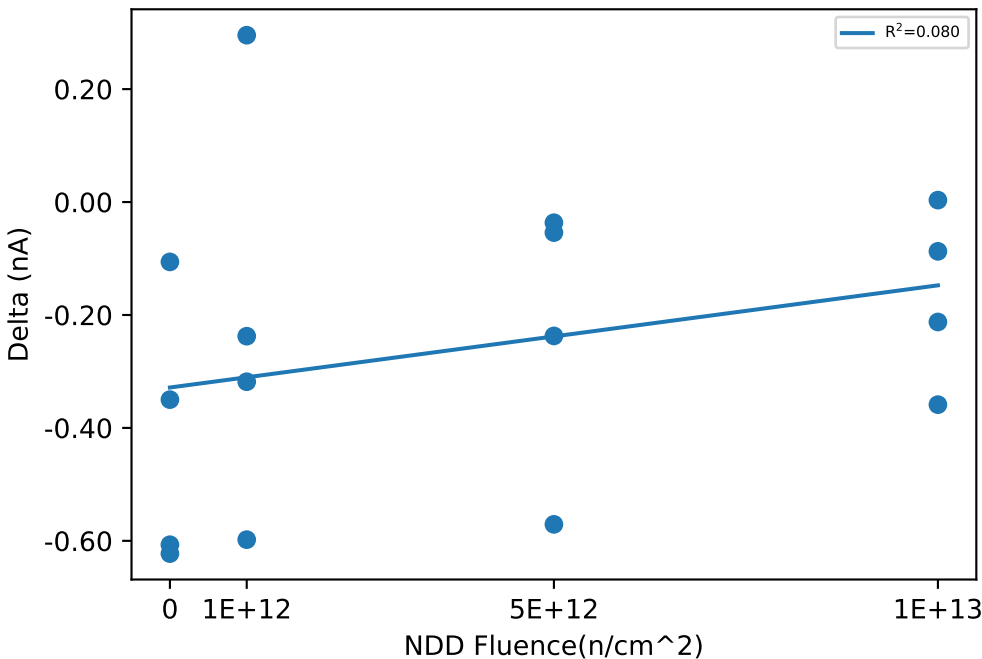
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9122	0.91868	0.9266	0.0069192	0.9109	0.91853	0.9267	0.0073704	-0.0013	-0.00015	0.0003	0.00077244
1e+12	0.9136	0.91678	0.9224	0.0038785	0.913	0.91695	0.9227	0.0041187	-0.0006	0.000175	0.0006	0.00053151
5e+12	0.9178	0.91825	0.9184	0.0003	0.9176	0.91842	0.9196	0.00091788	-0.0008	0.000175	0.0012	0.00082614
1e+13	0.9147	0.9178	0.9216	0.0031843	0.9135	0.9178	0.9218	0.0038583	-0.0022	0	0.001	0.0015144

Device Test: 23.20 LEAK|MAX/PWRGD/12////@PWRGD_OUTPUT_HIGH_LEAK

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



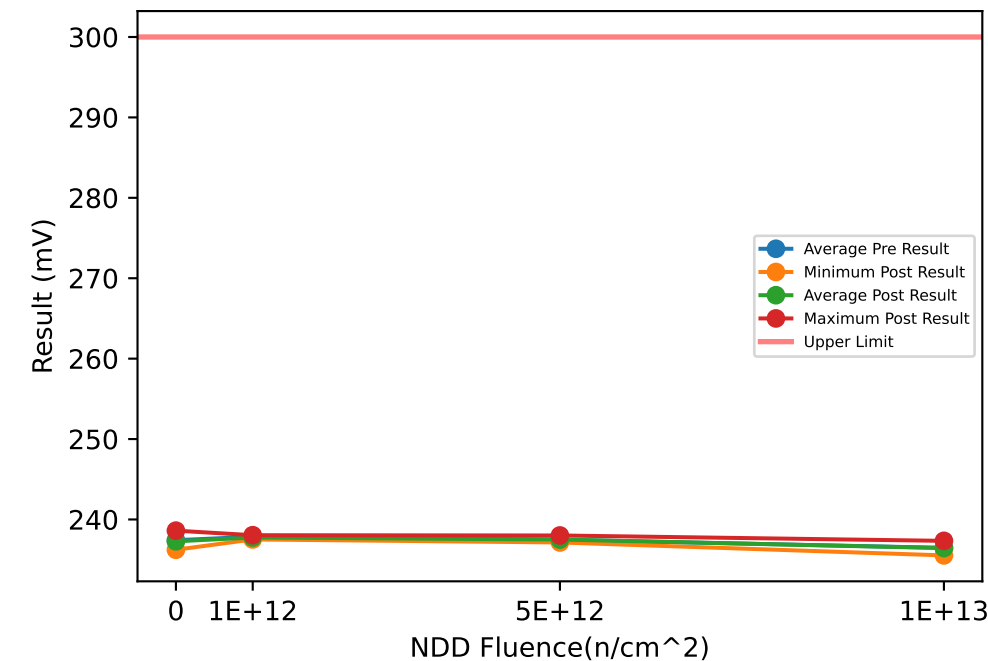
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.3369	0.739	-0.5979
229	5e+12	NDD	0.7787	0.7421	-0.0366
260	1e+13	NDD	0.7418	0.7452	0.0034
301	1e+12	NDD	0.9874	0.6692	-0.3182
362	5e+12	NDD	1.4836	0.9128	-0.5708
365	1e+13	NDD	0.9753	0.7629	-0.2124
439	1e+12	NDD	0.5983	0.8938	0.2955
514	5e+12	NDD	1.0154	0.7783	-0.2371
577	1e+13	NDD	1.5086	1.1498	-0.3588
634	1e+12	NDD	0.8317	0.5941	-0.2376
635	5e+12	NDD	0.72	0.6659	-0.0541
713	1e+13	NDD	0.9624	0.8751	-0.0873
732	0	CORRELATION	1.237	0.6301	-0.6069
742	0	CORRELATION	0.9347	0.5848	-0.3499
879	0	CORRELATION	0.9561	0.8501	-0.106
880	0	CORRELATION	1.3056	0.683	-0.6226

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	0.9347	1.1084	1.3056	0.19043	0.5848	0.687	0.8501	0.1159	-0.6226	-0.42135	-0.106	0.2446
1e+12	0.5983	0.93858	1.3369	0.30998	0.5941	0.72403	0.8938	0.12772	-0.5979	-0.21455	0.2955	0.37344
5e+12	0.72	0.99943	1.4836	0.34712	0.6659	0.77477	0.9128	0.10325	-0.5708	-0.22465	-0.0366	0.24794
1e+13	0.7418	1.047	1.5086	0.32584	0.7452	0.88325	1.1498	0.18678	-0.3588	-0.16378	0.0034	0.15726

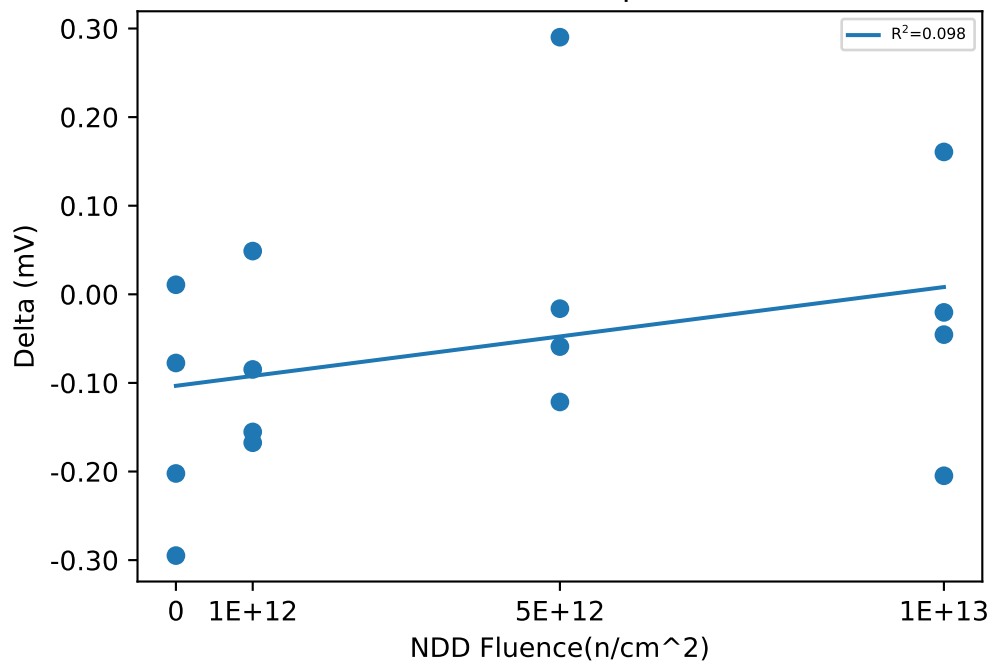
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	238.2	238.04	-0.1553
229	5e+12	NDD	237.37	237.36	-0.0162
260	1e+13	NDD	237.18	237.34	0.1607
301	1e+12	NDD	237.6	237.52	-0.0848
362	5e+12	NDD	237.26	237.14	-0.1215
365	1e+13	NDD	235.58	235.53	-0.0455
439	1e+12	NDD	237.49	237.54	0.0488
514	5e+12	NDD	238.07	238.01	-0.059
577	1e+13	NDD	236.4	236.2	-0.2048
634	1e+12	NDD	238.11	237.94	-0.1675
635	5e+12	NDD	237.23	237.52	0.2902
713	1e+13	NDD	236.73	236.71	-0.0204
732	0	CORRELATION	238.15	237.95	-0.2022
742	0	CORRELATION	236.53	236.24	-0.2949
879	0	CORRELATION	238.6	238.61	0.0108
880	0	CORRELATION	236.4	236.33	-0.0775

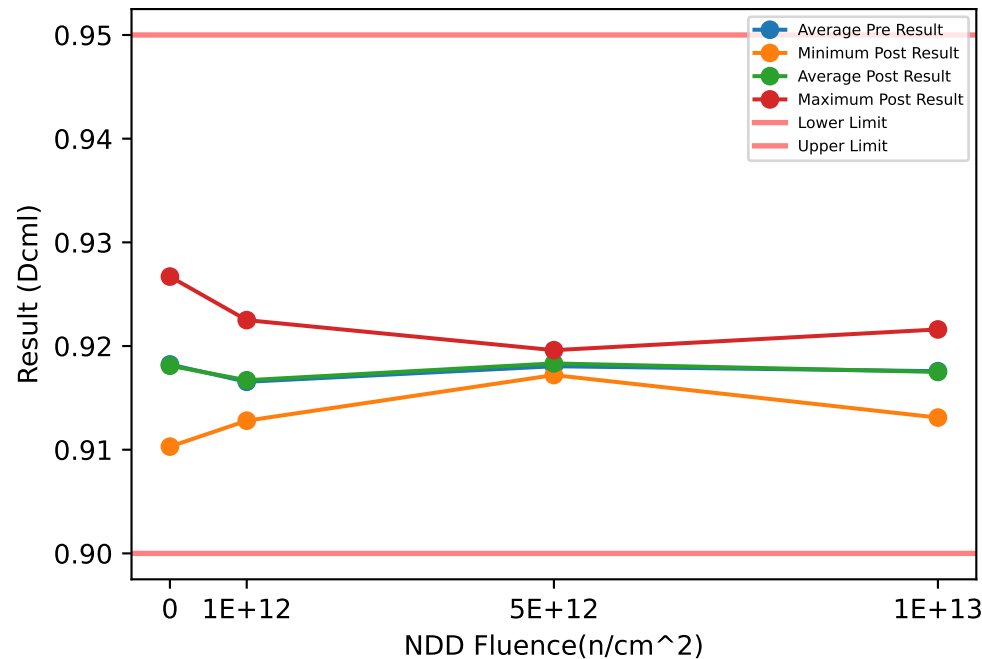
NDD vs Post - Pre Exposure Delta



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	236.4	237.42	238.6	1.1187	236.24	237.28	238.61	1.1863	-0.2949	-0.14095	0.0108	0.13479
1e+12	237.49	237.85	238.2	0.35485	237.52	237.76	238.04	0.27089	-0.1675	-0.0897	0.0488	0.099268
5e+12	237.23	237.48	238.07	0.3956	237.14	237.51	238.01	0.36955	-0.1215	0.023375	0.2902	0.18306
1e+13	235.58	236.47	237.18	0.67591	235.53	236.44	237.34	0.76693	-0.2048	-0.0275	0.1607	0.1497

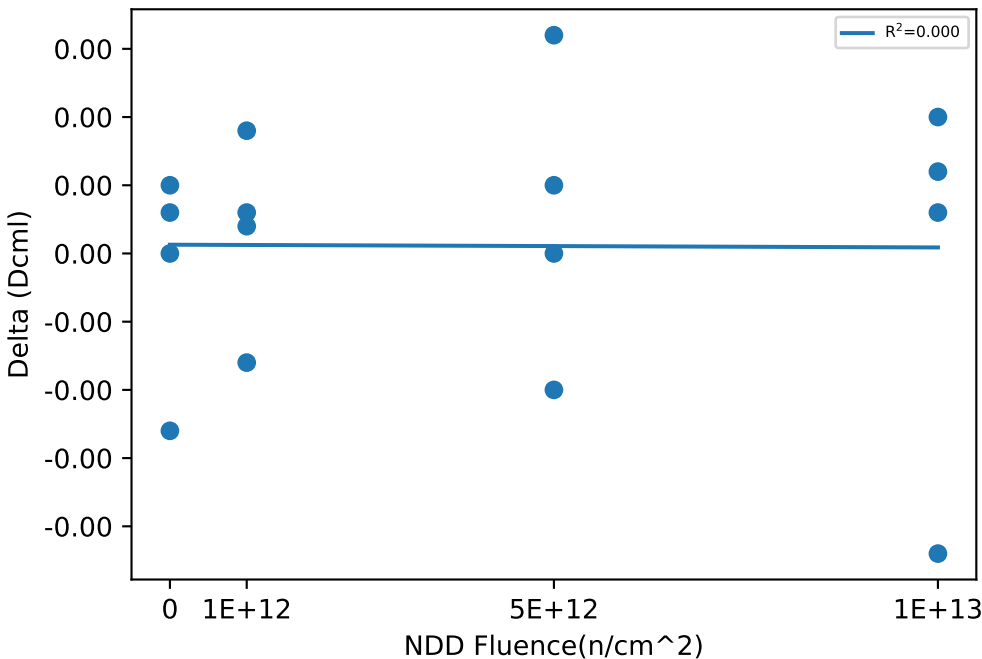
NDD vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 0.95 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9149	0.9151	0.0002
229	5e+12	NDD	0.9182	0.9187	0.0005
260	1e+13	NDD	0.9147	0.9157	0.001
301	1e+12	NDD	0.9136	0.9128	-0.0008
362	5e+12	NDD	0.9182	0.9172	-0.001
365	1e+13	NDD	0.9153	0.9131	-0.0022
439	1e+12	NDD	0.9155	0.9164	0.0009
514	5e+12	NDD	0.9178	0.9178	0
577	1e+13	NDD	0.9213	0.9216	0.0003
634	1e+12	NDD	0.9222	0.9225	0.0003
635	5e+12	NDD	0.918	0.9196	0.0016
713	1e+13	NDD	0.919	0.9196	0.0006
732	0	CORRELATION	0.9132	0.9132	0
742	0	CORRELATION	0.9116	0.9103	-0.0013
879	0	CORRELATION	0.9262	0.9267	0.0005
880	0	CORRELATION	0.9219	0.9222	0.0003

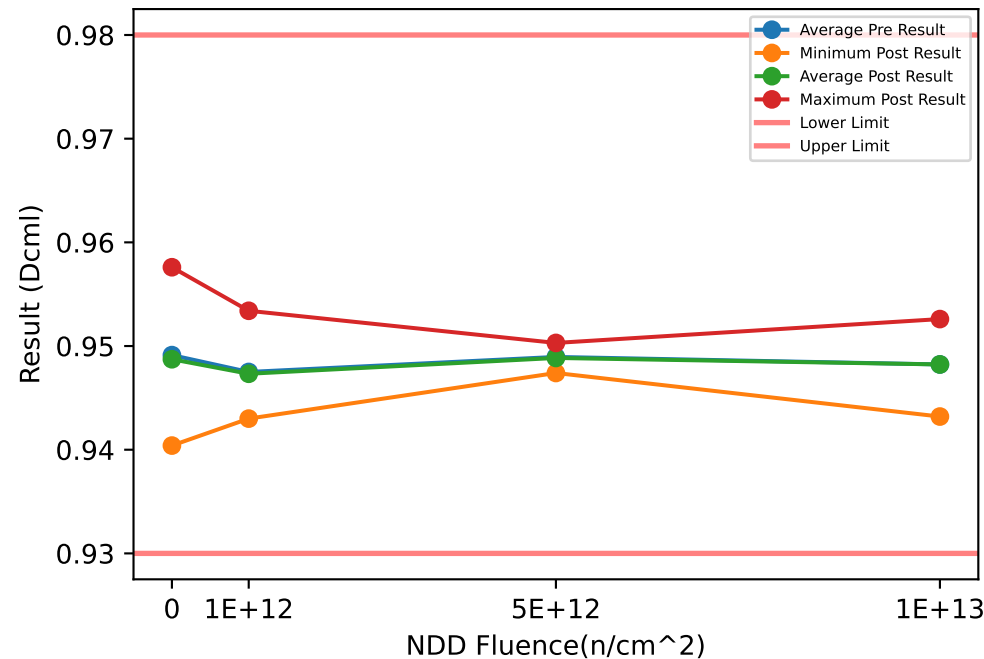
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9116	0.91823	0.9262	0.0069821	0.9103	0.9181	0.9267	0.0076511	-0.0013	-0.000125	0.0005	0.00080984
1e+12	0.9136	0.91655	0.9222	0.0038492	0.9128	0.9167	0.9225	0.0041433	-0.0008	0.00015	0.0009	0.00070475
5e+12	0.9178	0.91805	0.9182	0.00019149	0.9172	0.91832	0.9196	0.00105	-0.001	0.000275	0.0016	0.0010813
1e+13	0.9147	0.91758	0.9213	0.0031277	0.9131	0.9175	0.9216	0.0038219	-0.0022	-7.5e-05	0.001	0.0014454

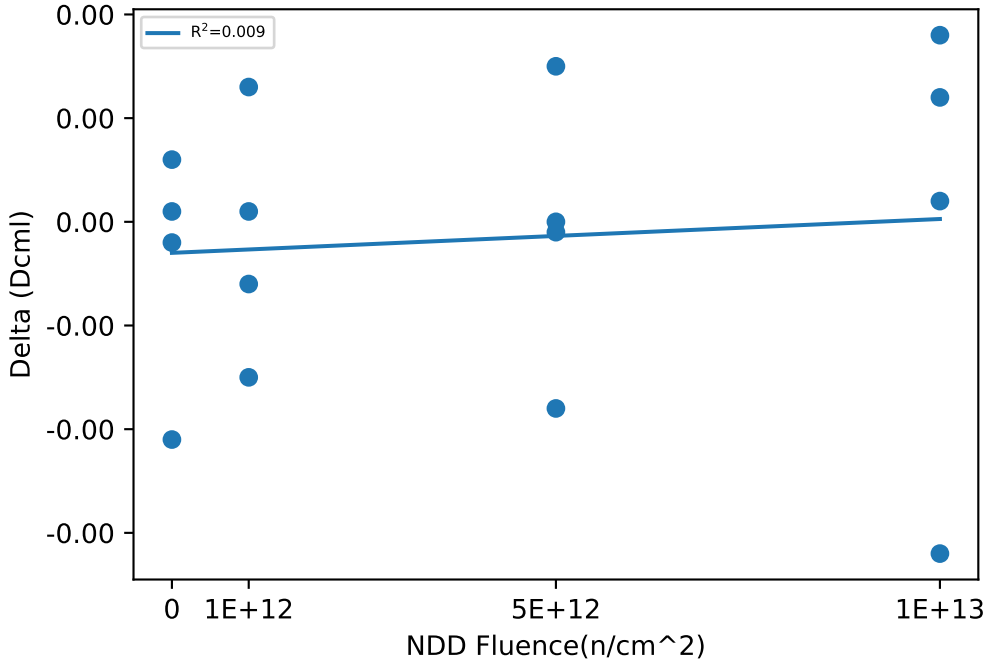
NDD vs Result Stats



Test Results (Lower Limit = 0.93, Upper Limit = 0.98 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9461	0.9455	-0.0006
229	5e+12	NDD	0.9493	0.9493	0
260	1e+13	NDD	0.9445	0.9463	0.0018
301	1e+12	NDD	0.9445	0.943	-0.0015
362	5e+12	NDD	0.9492	0.9474	-0.0018
365	1e+13	NDD	0.9464	0.9432	-0.0032
439	1e+12	NDD	0.9461	0.9474	0.0013
514	5e+12	NDD	0.9485	0.9484	-0.0001
577	1e+13	NDD	0.9524	0.9526	0.0002
634	1e+12	NDD	0.9533	0.9534	0.0001
635	5e+12	NDD	0.9488	0.9503	0.0015
713	1e+13	NDD	0.9496	0.9508	0.0012
732	0	CORRELATION	0.9441	0.9439	-0.0002
742	0	CORRELATION	0.9425	0.9404	-0.0021
879	0	CORRELATION	0.957	0.9576	0.0006
880	0	CORRELATION	0.9529	0.953	0.0001

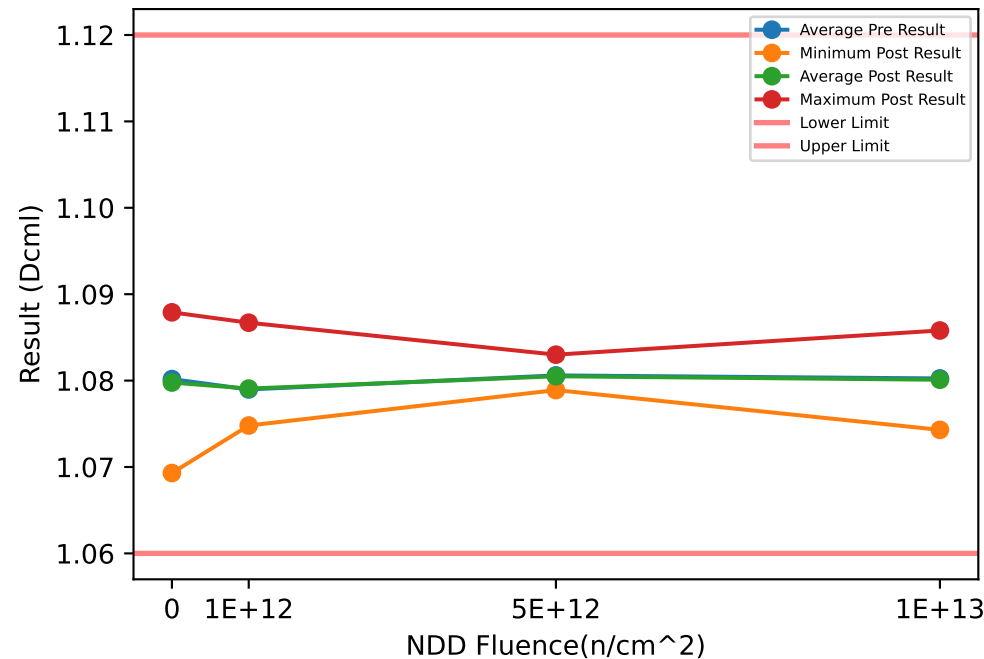
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9425	0.94912	0.957	0.006962	0.9404	0.94873	0.9576	0.0079504	-0.0021	-0.0004	0.0006	0.0011804
1e+12	0.9445	0.9475	0.9533	0.0039395	0.943	0.94732	0.9534	0.0044327	-0.0015	-0.000175	0.0013	0.0011815
5e+12	0.9485	0.94895	0.9493	0.00036968	0.9474	0.94885	0.9503	0.0012396	-0.0018	-0.0001	0.0015	0.0013491
1e+13	0.9445	0.94822	0.9524	0.0034894	0.9432	0.94822	0.9526	0.0042711	-0.0032	0	0.0018	0.0022331

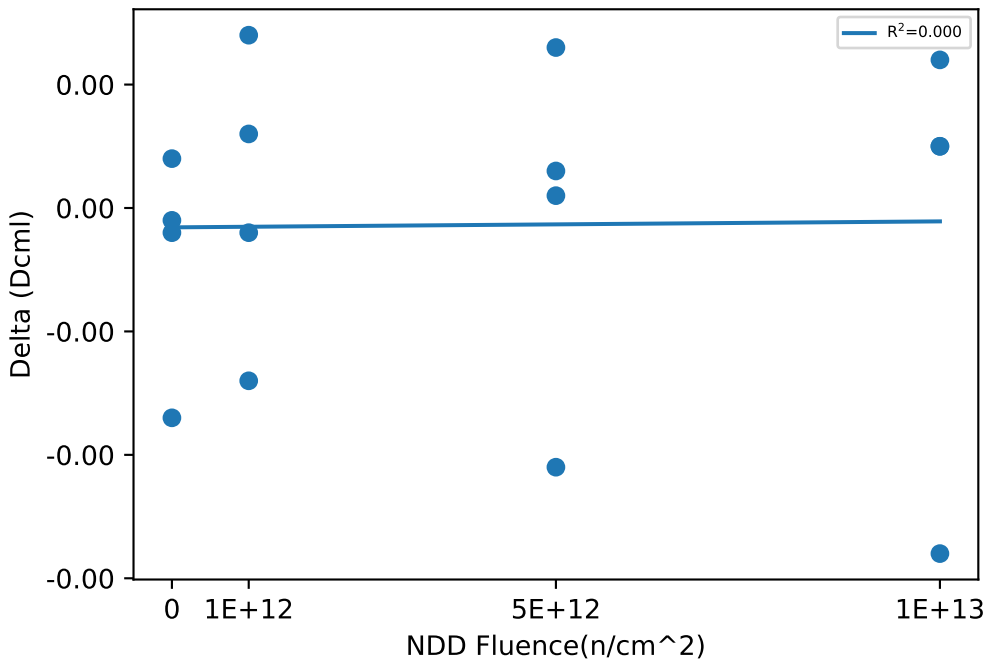
NDD vs Result Stats



Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0755	1.0753	-0.0002
229	5e+12	NDD	1.0786	1.0789	0.0003
260	1e+13	NDD	1.0765	1.077	0.0005
301	1e+12	NDD	1.0762	1.0748	-0.0014
362	5e+12	NDD	1.0817	1.0796	-0.0021
365	1e+13	NDD	1.0771	1.0743	-0.0028
439	1e+12	NDD	1.0781	1.0795	0.0014
514	5e+12	NDD	1.0829	1.083	0.0001
577	1e+13	NDD	1.0828	1.0833	0.0005
634	1e+12	NDD	1.0861	1.0867	0.0006
635	5e+12	NDD	1.0792	1.0805	0.0013
713	1e+13	NDD	1.0846	1.0858	0.0012
732	0	CORRELATION	1.0762	1.0761	-0.0001
742	0	CORRELATION	1.071	1.0693	-0.0017
879	0	CORRELATION	1.0875	1.0879	0.0004
880	0	CORRELATION	1.086	1.0858	-0.0002

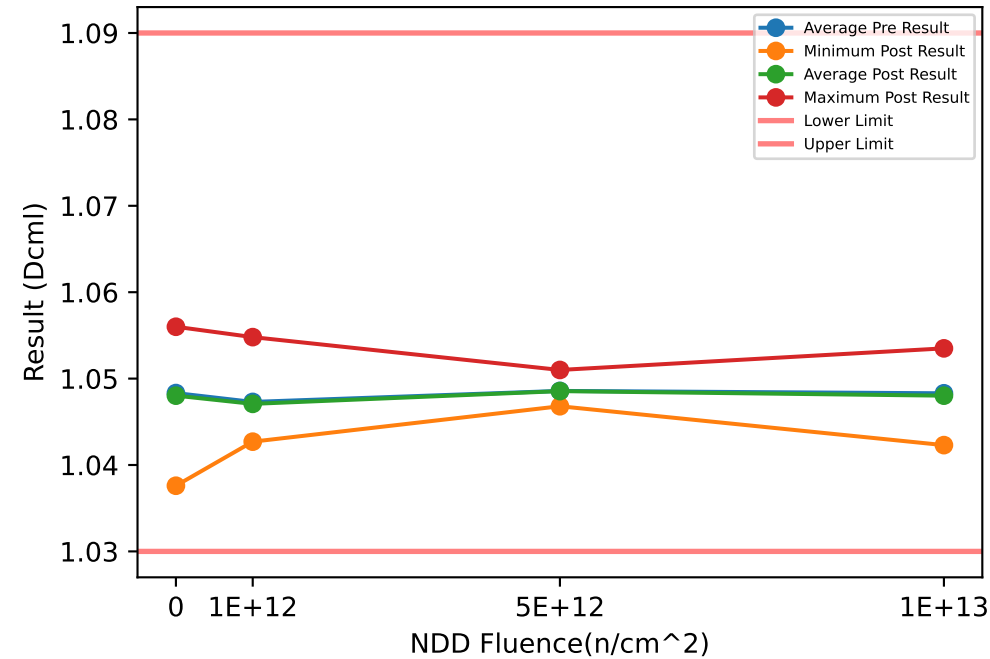
NDD vs Post - Pre Exposure Delta



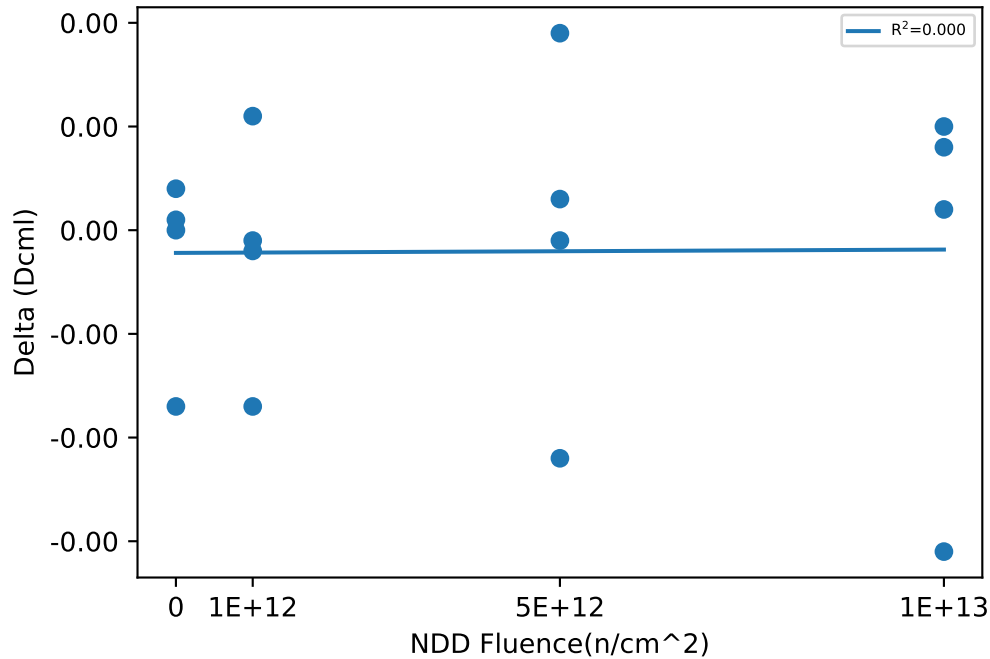
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.071	1.0802	1.0875	0.0079071	1.0693	1.0798	1.0879	0.0086708	-0.0017	-0.0004	0.0004	0.00090554
1e+12	1.0755	1.079	1.0861	0.0048754	1.0748	1.0791	1.0867	0.005503	-0.0014	0.0001	0.0014	0.0011944
5e+12	1.0786	1.0806	1.0829	0.002038	1.0789	1.0805	1.083	0.0017907	-0.0021	-0.0001	0.0013	0.0014329
1e+13	1.0765	1.0802	1.0846	0.0040583	1.0743	1.0801	1.0858	0.0053535	-0.0028	-0.00015	0.0012	0.0017972

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



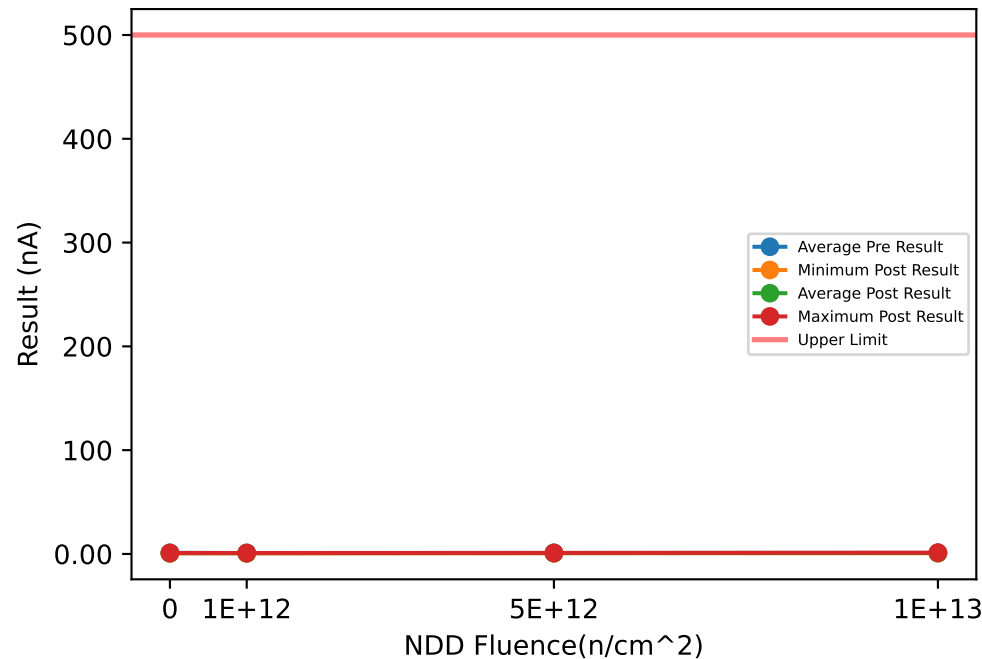
Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0436	1.0434	-0.0002
229	5e+12	NDD	1.0469	1.0468	-0.0001
260	1e+13	NDD	1.0444	1.0452	0.0008
301	1e+12	NDD	1.0444	1.0427	-0.0017
362	5e+12	NDD	1.0496	1.0474	-0.0022
365	1e+13	NDD	1.0454	1.0423	-0.0031
439	1e+12	NDD	1.0463	1.0474	0.0011
514	5e+12	NDD	1.0507	1.051	0.0003
577	1e+13	NDD	1.0509	1.0511	0.0002
634	1e+12	NDD	1.0549	1.0548	-0.0001
635	5e+12	NDD	1.0471	1.049	0.0019
713	1e+13	NDD	1.0525	1.0535	0.001
732	0	CORRELATION	1.0445	1.0446	0.0001
742	0	CORRELATION	1.0393	1.0376	-0.0017
879	0	CORRELATION	1.0556	1.056	0.0004
880	0	CORRELATION	1.0539	1.0539	0

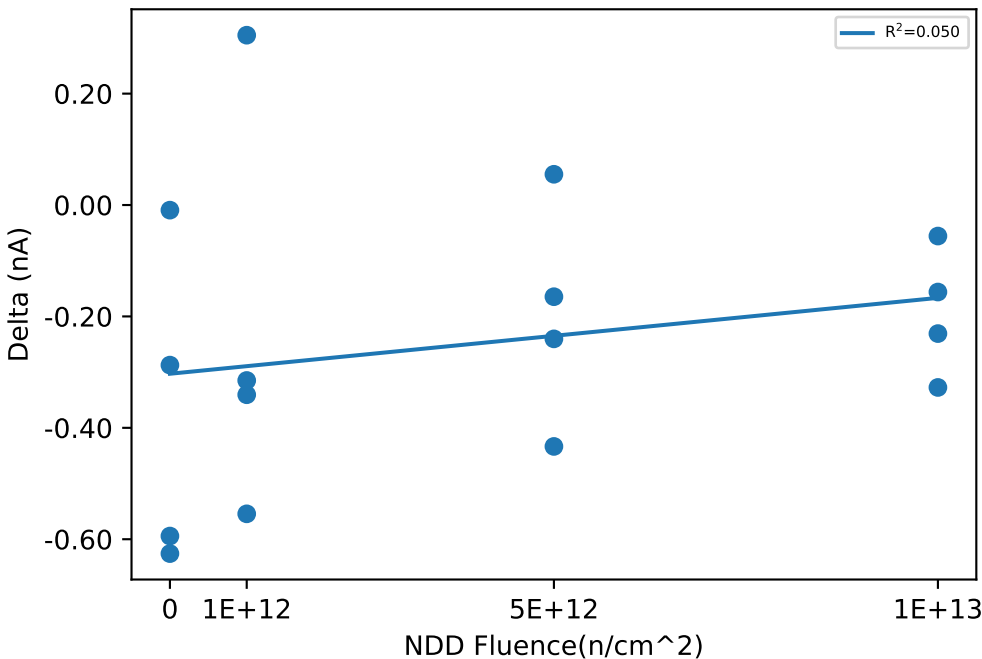
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0393	1.0483	1.0556	0.0077478	1.0376	1.048	1.056	0.0085348	-0.0017	-0.0003	0.0004	0.00094868
1e+12	1.0436	1.0473	1.0549	0.0051917	1.0427	1.0471	1.0548	0.0055506	-0.0017	-0.000225	0.0011	0.0011471
5e+12	1.0469	1.0486	1.0507	0.0018751	1.0468	1.0486	1.051	0.0018788	-0.0022	-2.5e-05	0.0019	0.0016879
1e+13	1.0444	1.0483	1.0525	0.0040008	1.0423	1.048	1.0535	0.00517	-0.0031	-0.000275	0.001	0.0019138

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



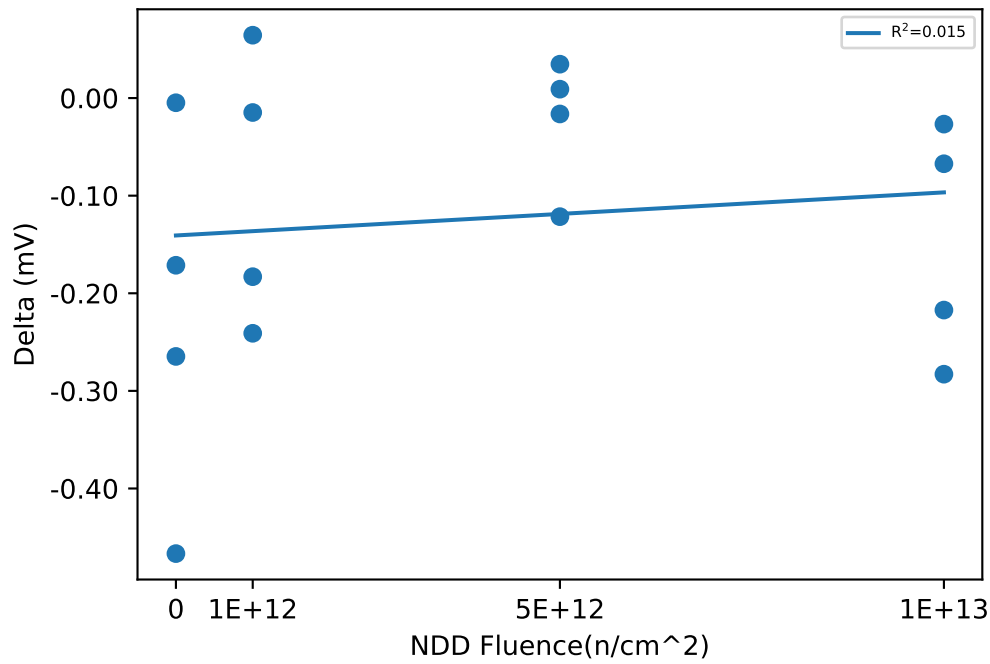
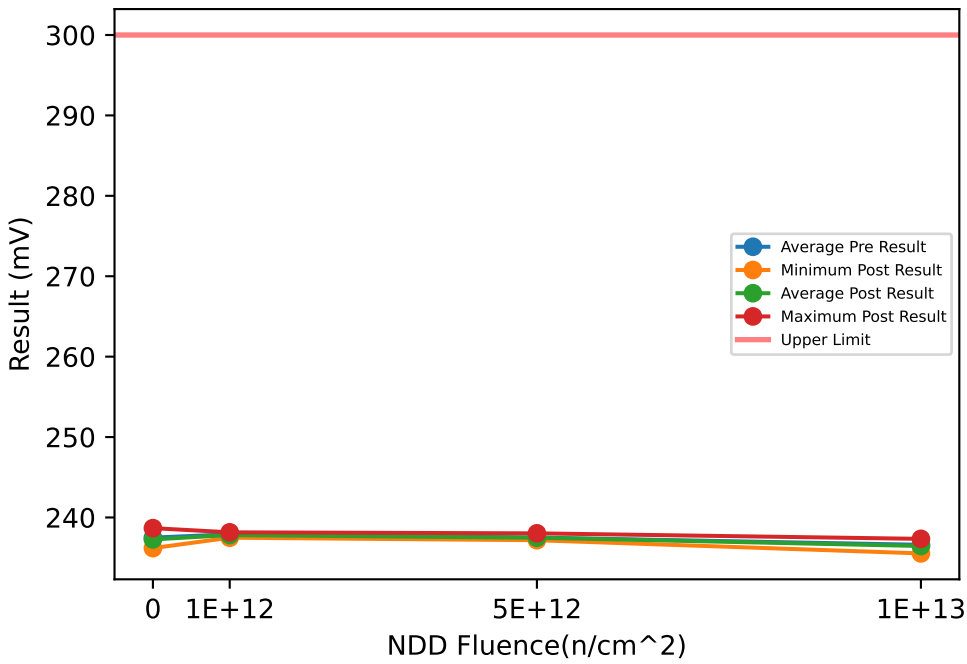
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.3369	0.7825	-0.5544
229	5e+12	NDD	0.9129	0.7483	-0.1646
260	1e+13	NDD	0.7325	0.6768	-0.0557
301	1e+12	NDD	1.0435	0.7285	-0.315
362	5e+12	NDD	1.4274	0.994	-0.4334
365	1e+13	NDD	0.9472	0.791	-0.1562
439	1e+12	NDD	0.6014	0.9063	0.3049
514	5e+12	NDD	1.0342	0.7939	-0.2403
577	1e+13	NDD	1.5429	1.2154	-0.3275
634	1e+12	NDD	0.8723	0.5317	-0.3406
635	5e+12	NDD	0.6607	0.7159	0.0552
713	1e+13	NDD	1.0872	0.8564	-0.2308
732	0	CORRELATION	1.2151	0.6208	-0.5943
742	0	CORRELATION	0.9316	0.6442	-0.2874
879	0	CORRELATION	0.9249	0.9157	-0.0092
880	0	CORRELATION	1.2963	0.6705	-0.6258

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	0.9249	1.092	1.2963	0.19196	0.6208	0.7128	0.9157	0.13678	-0.6258	-0.37918	-0.0092	0.29006
1e+12	0.6014	0.96352	1.3369	0.30836	0.5317	0.73725	0.9063	0.15594	-0.5544	-0.22628	0.3049	0.37002
5e+12	0.6607	1.0088	1.4274	0.3195	0.7159	0.81302	0.994	0.12482	-0.4334	-0.19578	0.0552	0.202
1e+13	0.7325	1.0775	1.5429	0.34288	0.6768	0.8849	1.2154	0.2325	-0.3275	-0.19255	-0.0557	0.11507

Device Test: 23.28 VOL|2mA/PWRGD/14////@PWRGD_OUTPUT_LOW



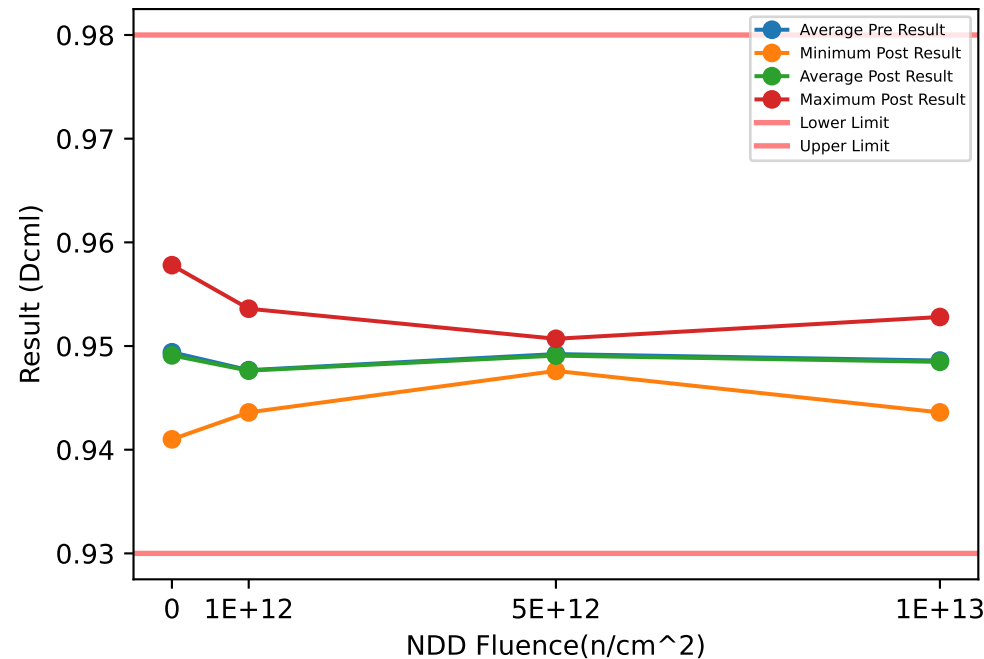
Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	238.17	238.15	-0.0148
229	5e+12	NDD	237.28	237.26	-0.0163
260	1e+13	NDD	237.37	237.34	-0.0267
301	1e+12	NDD	237.73	237.48	-0.241
362	5e+12	NDD	237.29	237.17	-0.1215
365	1e+13	NDD	235.75	235.53	-0.2172
439	1e+12	NDD	237.49	237.56	0.0644
514	5e+12	NDD	237.99	238.03	0.0347
577	1e+13	NDD	236.51	236.23	-0.2829
634	1e+12	NDD	238.23	238.05	-0.183
635	5e+12	NDD	237.45	237.46	0.0091
713	1e+13	NDD	236.77	236.71	-0.0673
732	0	CORRELATION	238.17	237.9	-0.2647
742	0	CORRELATION	236.66	236.19	-0.4667
879	0	CORRELATION	238.68	238.67	-0.0048
880	0	CORRELATION	236.48	236.31	-0.1713

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	236.48	237.5	238.68	1.0932	236.19	237.27	238.67	1.2195	-0.4667	-0.22688	-0.0048	0.19266
1e+12	237.49	237.9	238.23	0.35499	237.48	237.81	238.15	0.33897	-0.241	-0.0936	0.0644	0.14247
5e+12	237.28	237.5	237.99	0.33424	237.17	237.48	238.03	0.38303	-0.1215	-0.0235	0.0347	0.068571
1e+13	235.75	236.6	237.37	0.6709	235.53	236.45	237.34	0.76375	-0.2829	-0.14852	-0.0267	0.1214

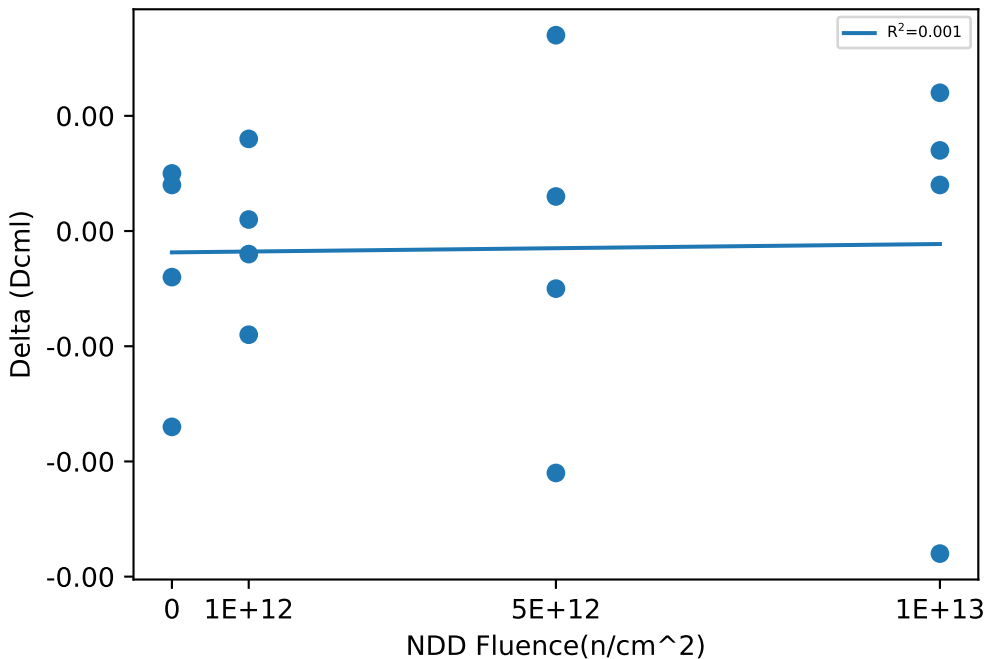
NDD vs Result Stats



Test Results (Lower Limit = 0.93, Upper Limit = 0.98 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9461	0.9459	-0.0002
229	5e+12	NDD	0.9493	0.9496	0.0003
260	1e+13	NDD	0.9453	0.9465	0.0012
301	1e+12	NDD	0.9445	0.9436	-0.0009
362	5e+12	NDD	0.9497	0.9476	-0.0021
365	1e+13	NDD	0.9464	0.9436	-0.0028
439	1e+12	NDD	0.9466	0.9474	0.0008
514	5e+12	NDD	0.9489	0.9484	-0.0005
577	1e+13	NDD	0.9524	0.9528	0.0004
634	1e+12	NDD	0.9535	0.9536	0.0001
635	5e+12	NDD	0.949	0.9507	0.0017
713	1e+13	NDD	0.9503	0.951	0.0007
732	0	CORRELATION	0.9441	0.9446	0.0005
742	0	CORRELATION	0.9427	0.941	-0.0017
879	0	CORRELATION	0.9574	0.9578	0.0004
880	0	CORRELATION	0.9534	0.953	-0.0004

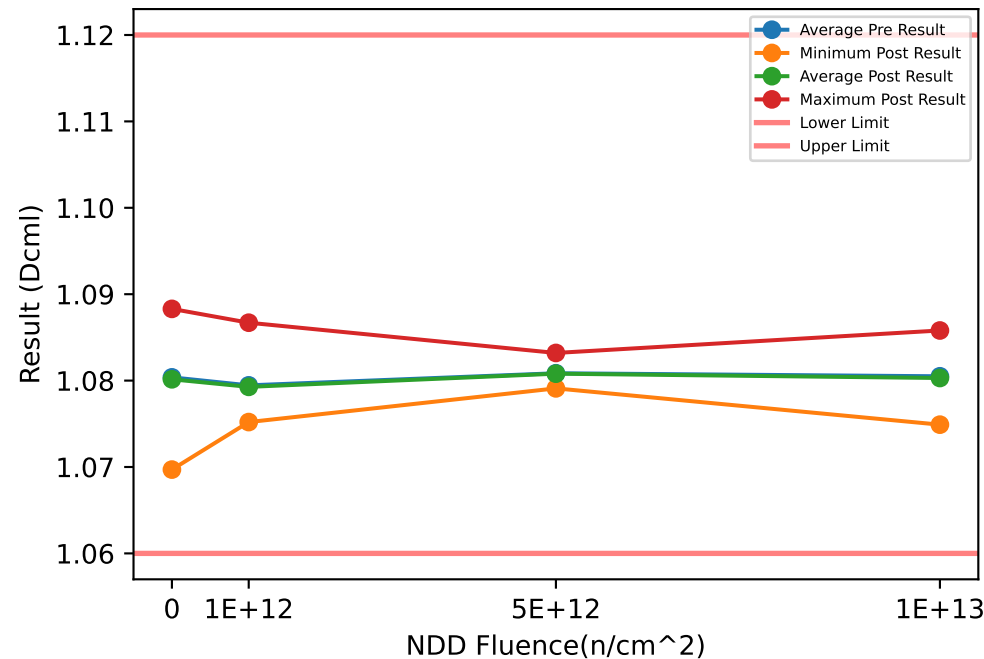
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9427	0.9494	0.9574	0.007141	0.941	0.9491	0.9578	0.0076759	-0.0017	-0.0003	0.0005	0.0010165
1e+12	0.9445	0.94768	0.9535	0.0039853	0.9436	0.94762	0.9536	0.0042789	-0.0009	-5e-05	0.0008	0.00070475
5e+12	0.9489	0.94922	0.9497	0.0003594	0.9476	0.94908	0.9507	0.0013598	-0.0021	-0.00015	0.0017	0.0015864
1e+13	0.9453	0.9486	0.9524	0.0033196	0.9436	0.94847	0.9528	0.0041931	-0.0028	-0.000125	0.0012	0.0018136

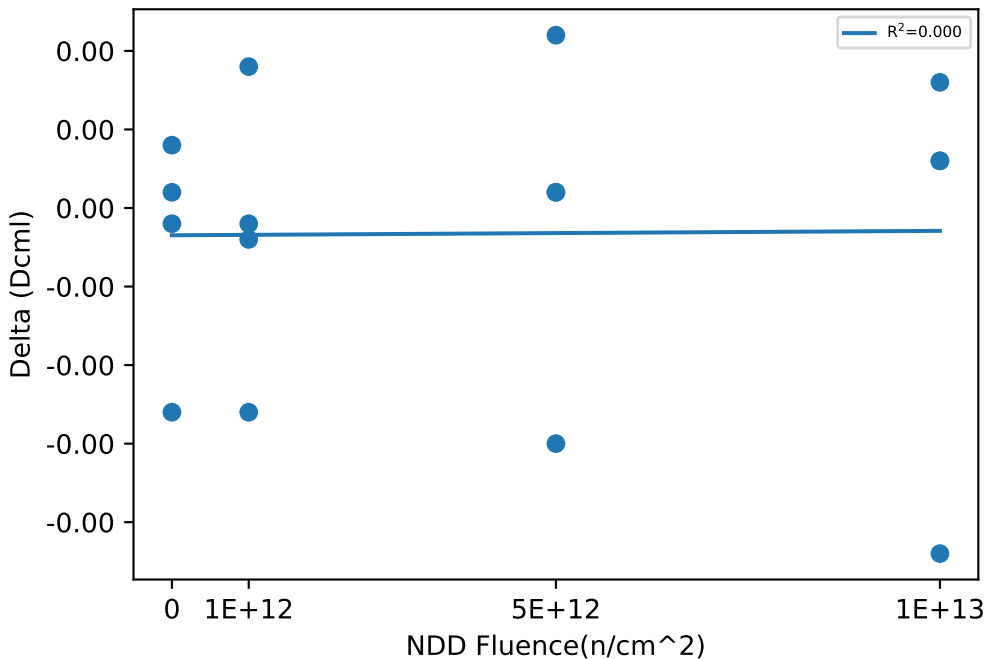
NDD vs Result Stats



Test Results (Lower Limit = 1.06, Upper Limit = 1.12 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.0757	1.0755	-0.0002
229	5e+12	NDD	1.079	1.0791	0.0001
260	1e+13	NDD	1.0767	1.077	0.0003
301	1e+12	NDD	1.0765	1.0752	-0.0013
362	5e+12	NDD	1.0817	1.0802	-0.0015
365	1e+13	NDD	1.0771	1.0749	-0.0022
439	1e+12	NDD	1.0788	1.0797	0.0009
514	5e+12	NDD	1.0831	1.0832	0.0001
577	1e+13	NDD	1.0832	1.0835	0.0003
634	1e+12	NDD	1.0868	1.0867	-0.0001
635	5e+12	NDD	1.0796	1.0807	0.0011
713	1e+13	NDD	1.085	1.0858	0.0008
732	0	CORRELATION	1.0764	1.0763	-0.0001
742	0	CORRELATION	1.071	1.0697	-0.0013
879	0	CORRELATION	1.0879	1.0883	0.0004
880	0	CORRELATION	1.0862	1.0863	0.0001

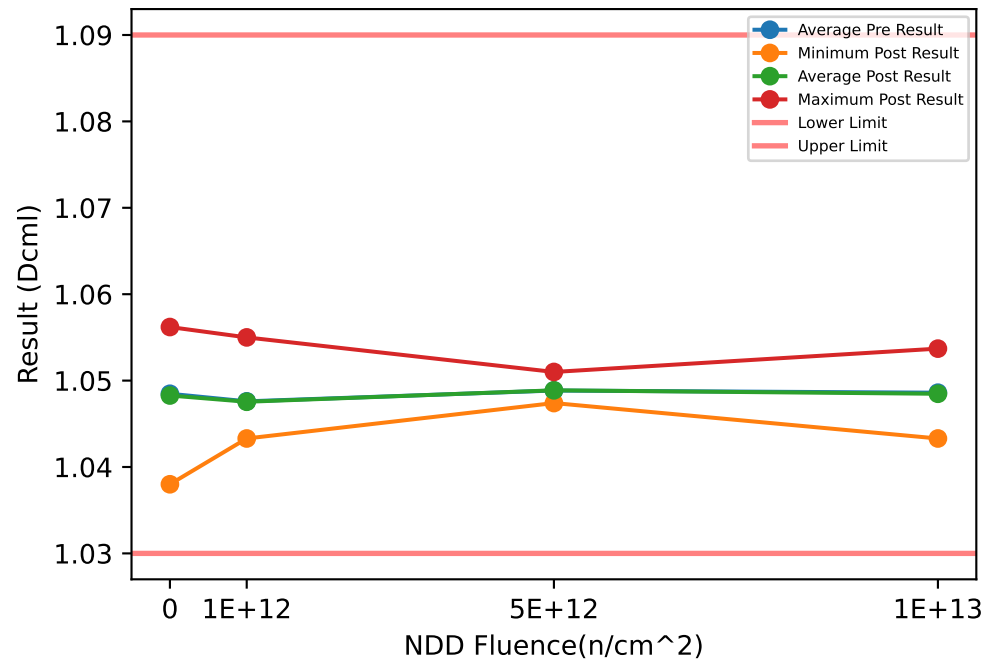
NDD vs Post - Pre Exposure Delta



Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.071	1.0804	1.0879	0.0080467	1.0697	1.0802	1.0883	0.008723	-0.0013	-0.000225	0.0004	0.00074554
1e+12	1.0757	1.0795	1.0868	0.0050731	1.0752	1.0793	1.0867	0.0053593	-0.0013	-0.000175	0.0009	0.00089954
5e+12	1.079	1.0808	1.0831	0.0018947	1.0791	1.0808	1.0832	0.001734	-0.0015	-5e-05	0.0011	0.0010755
1e+13	1.0767	1.0805	1.085	0.0042245	1.0749	1.0803	1.0858	0.0051814	-0.0022	-0.0002	0.0008	0.001354

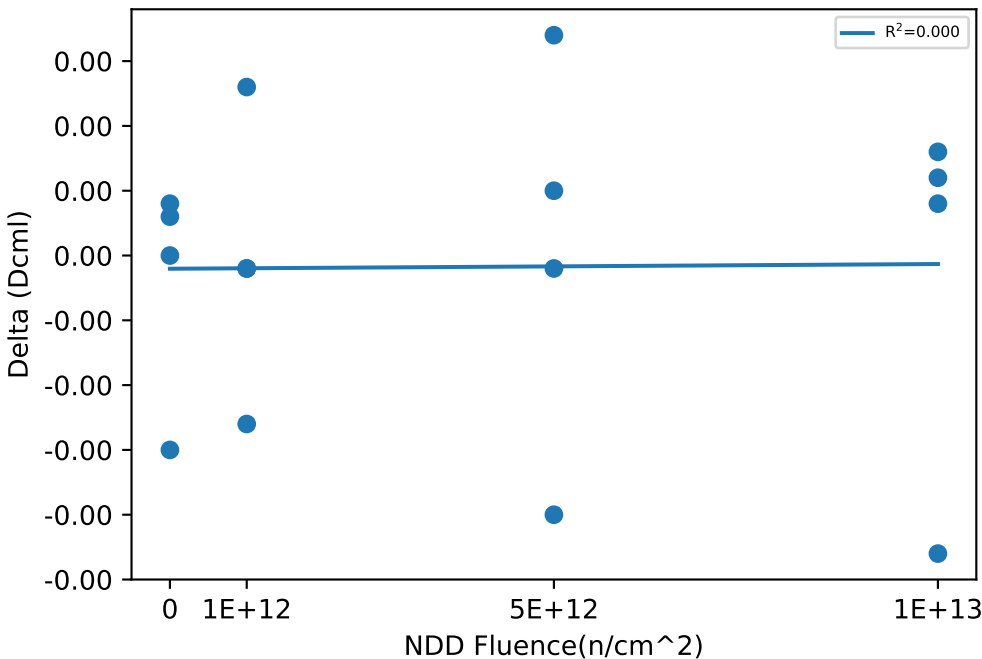
NDD vs Result Stats



Test Results (Lower Limit = 1.03, Upper Limit = 1.09 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.044	1.0439	-0.0001
229	5e+12	NDD	1.0469	1.0474	0.0005
260	1e+13	NDD	1.0448	1.0454	0.0006
301	1e+12	NDD	1.0446	1.0433	-0.0013
362	5e+12	NDD	1.0499	1.0479	-0.002
365	1e+13	NDD	1.0456	1.0433	-0.0023
439	1e+12	NDD	1.0467	1.048	0.0013
514	5e+12	NDD	1.0511	1.051	-0.0001
577	1e+13	NDD	1.0511	1.0515	0.0004
634	1e+12	NDD	1.0551	1.055	-0.0001
635	5e+12	NDD	1.0475	1.0492	0.0017
713	1e+13	NDD	1.0529	1.0537	0.0008
732	0	CORRELATION	1.0445	1.0448	0.0003
742	0	CORRELATION	1.0395	1.038	-0.0015
879	0	CORRELATION	1.0558	1.0562	0.0004
880	0	CORRELATION	1.0541	1.0541	0

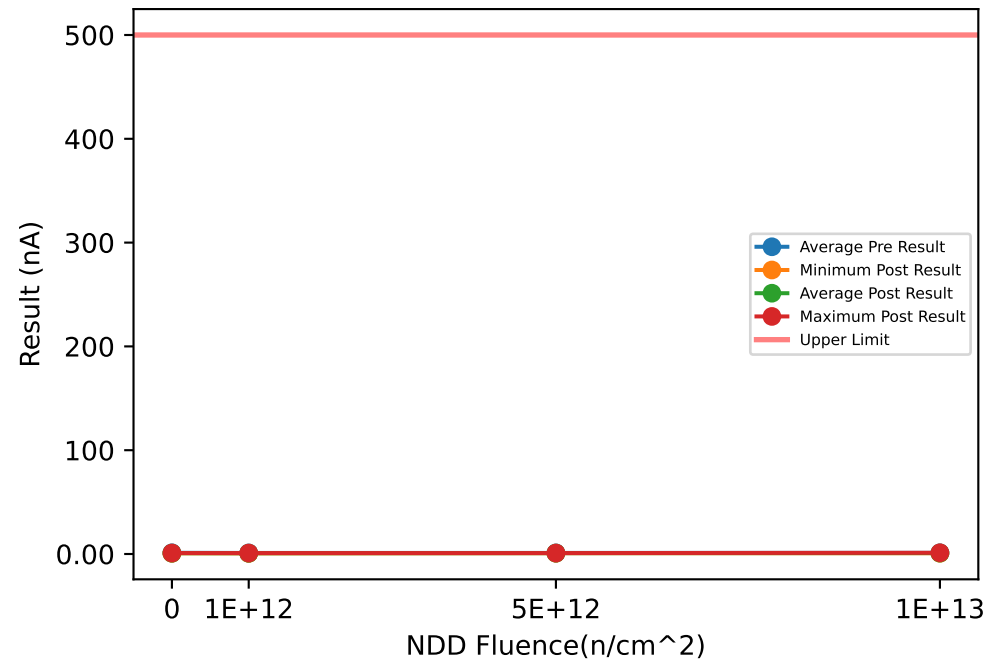
NDD vs Post - Pre Exposure Delta



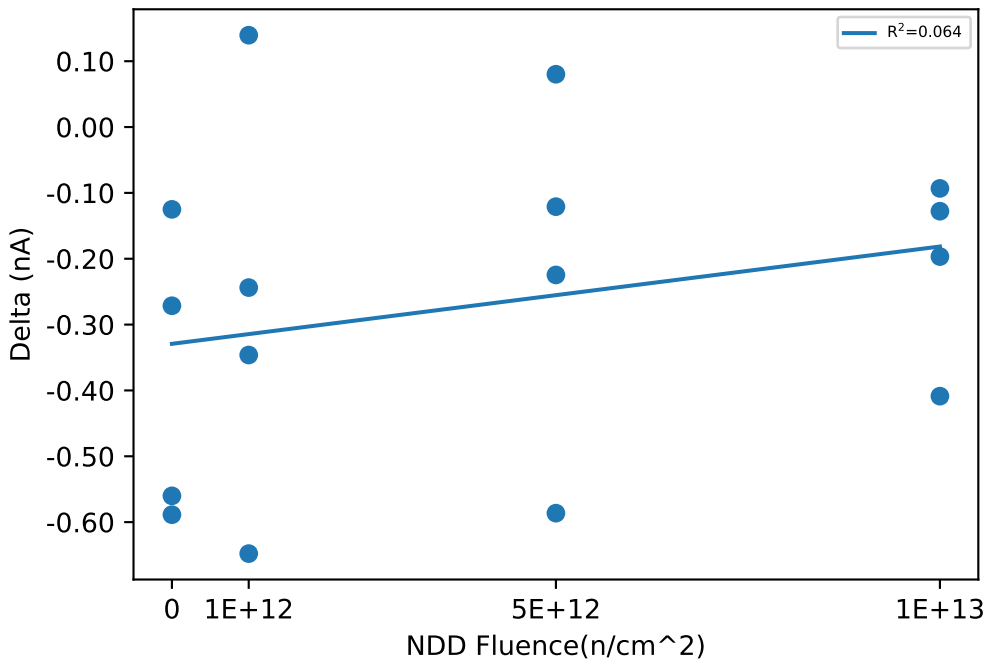
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	1.0395	1.0485	1.0558	0.0077813	1.038	1.0483	1.0562	0.0084535	-0.0015	-0.0002	0.0004	0.00088318
1e+12	1.044	1.0476	1.0551	0.0051323	1.0433	1.0475	1.055	0.0053879	-0.0013	-5e-05	0.0013	0.001063
5e+12	1.0469	1.0489	1.0511	0.0019824	1.0474	1.0489	1.051	0.001607	-0.002	2.5e-05	0.0017	0.0015435
1e+13	1.0448	1.0486	1.0529	0.0040075	1.0433	1.0485	1.0537	0.0049223	-0.0023	-0.000125	0.0008	0.0014592

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



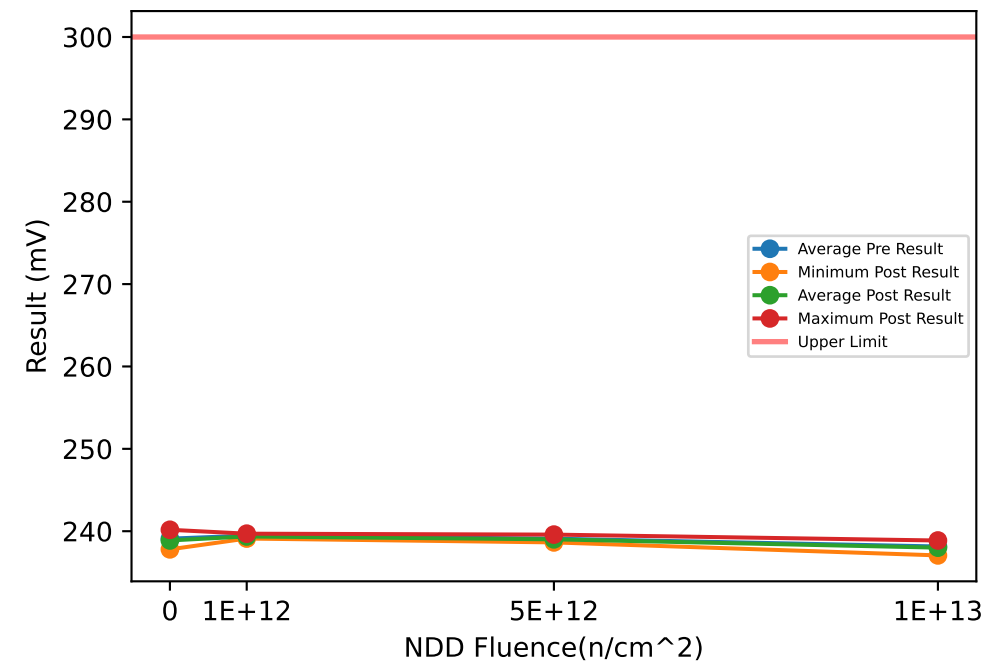
Test Results (Upper Limit = 500.0 (nA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.3681	0.7203	-0.6478
229	5e+12	NDD	0.8817	0.7608	-0.1209
260	1e+13	NDD	0.8042	0.711	-0.0932
301	1e+12	NDD	1.106	0.7598	-0.3462
362	5e+12	NDD	1.4805	0.8941	-0.5864
365	1e+13	NDD	0.9565	0.7598	-0.1967
439	1e+12	NDD	0.7668	0.9063	0.1395
514	5e+12	NDD	1.1247	0.9001	-0.2246
577	1e+13	NDD	1.5897	1.181	-0.4087
634	1e+12	NDD	0.8286	0.5848	-0.2438
635	5e+12	NDD	0.6794	0.7596	0.0802
713	1e+13	NDD	1.0685	0.9407	-0.1278
732	0	CORRELATION	1.2213	0.6612	-0.5601
742	0	CORRELATION	0.8473	0.7223	-0.125
879	0	CORRELATION	1.2183	0.9469	-0.2714
880	0	CORRELATION	1.365	0.7763	-0.5887

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	0.8473	1.163	1.365	0.2213	0.6612	0.77668	0.9469	0.12284	-0.5887	-0.3863	-0.125	0.22557
1e+12	0.7668	1.0174	1.3681	0.27646	0.5848	0.7428	0.9063	0.13228	-0.6478	-0.27458	0.1395	0.32498
5e+12	0.6794	1.0416	1.4805	0.34462	0.7596	0.82865	0.9001	0.079079	-0.5864	-0.21292	0.0802	0.27929
1e+13	0.8042	1.1047	1.5897	0.34098	0.711	0.89813	1.181	0.2129	-0.4087	-0.2066	-0.0932	0.14143

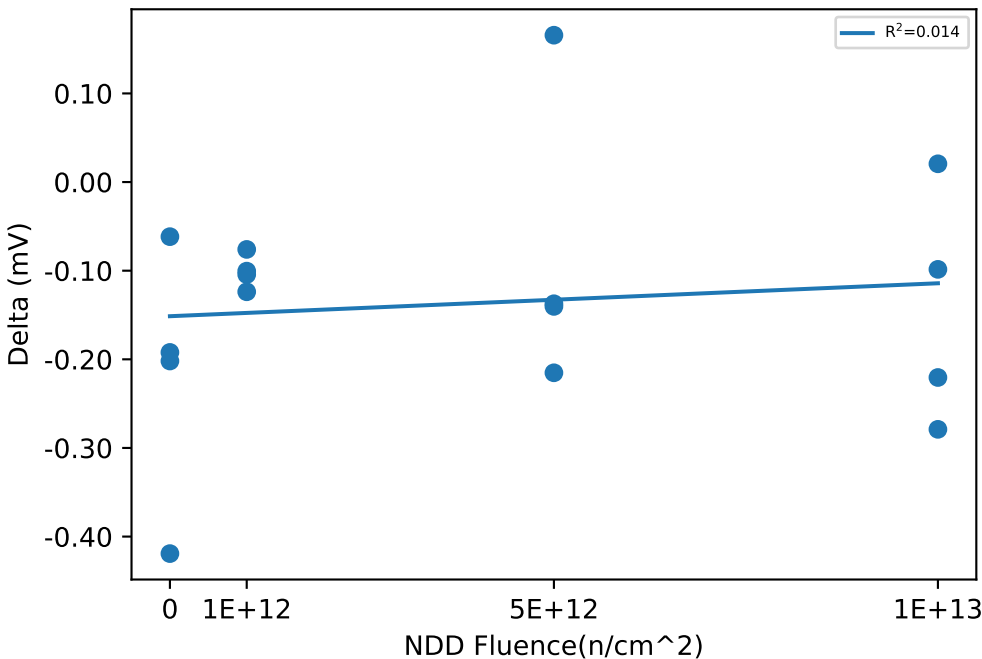
NDD vs Result Stats



Test Results (Upper Limit = 300.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	239.82	239.7	-0.1238
229	5e+12	NDD	239	238.86	-0.1403
260	1e+13	NDD	238.85	238.87	0.0206
301	1e+12	NDD	239.21	239.11	-0.1005
362	5e+12	NDD	238.86	238.64	-0.2152
365	1e+13	NDD	237.34	237.06	-0.279
439	1e+12	NDD	239.19	239.12	-0.076
514	5e+12	NDD	239.72	239.59	-0.1373
577	1e+13	NDD	237.98	237.76	-0.2205
634	1e+12	NDD	239.62	239.52	-0.1043
635	5e+12	NDD	238.8	238.97	0.1657
713	1e+13	NDD	238.41	238.31	-0.0985
732	0	CORRELATION	239.73	239.53	-0.2019
742	0	CORRELATION	238.22	237.8	-0.4192
879	0	CORRELATION	240.36	240.17	-0.1922
880	0	CORRELATION	238.07	238.01	-0.0616

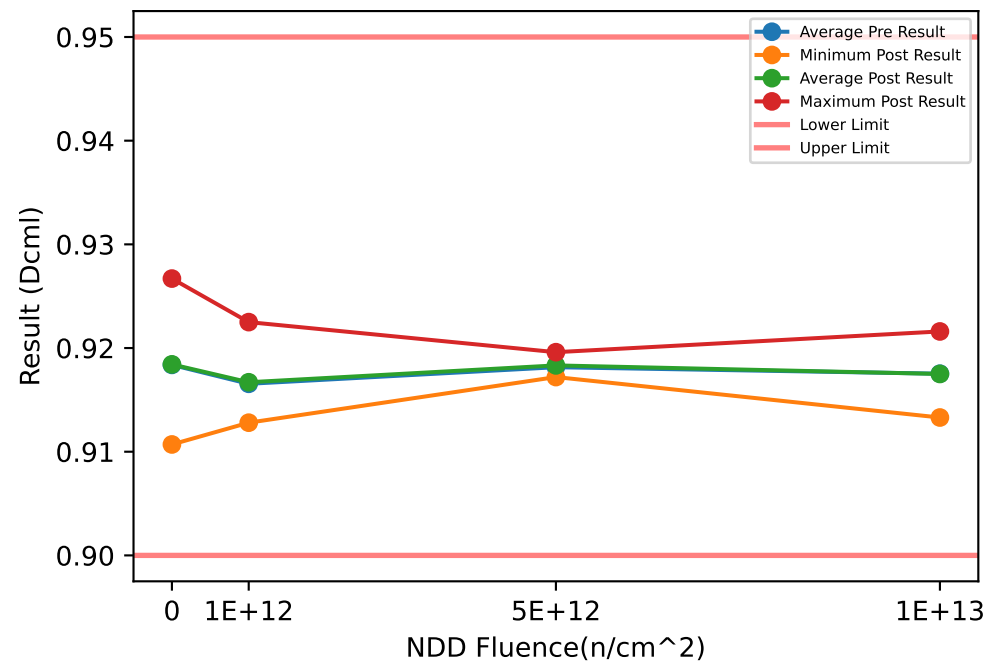
NDD vs Post - Pre Exposure Delta



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	238.07	239.1	240.36	1.1298	237.8	238.88	240.17	1.1569	-0.4192	-0.21873	-0.0616	0.14817
1e+12	239.19	239.46	239.82	0.31162	239.11	239.36	239.7	0.29514	-0.1238	-0.10115	-0.076	0.019629
5e+12	238.8	239.1	239.72	0.42734	238.64	239.01	239.59	0.40627	-0.2152	-0.081775	0.1657	0.16887
1e+13	237.34	238.15	238.85	0.64354	237.06	238	238.87	0.77342	-0.279	-0.14435	0.0206	0.13322

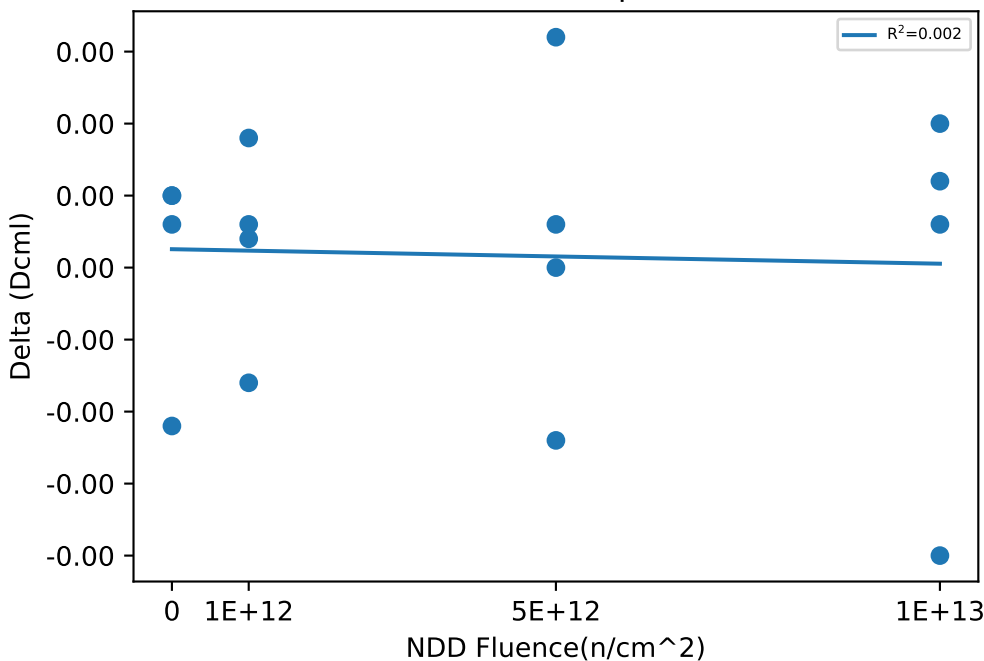
NDD vs Result Stats



Test Results (Lower Limit = 0.9, Upper Limit = 0.95 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.9149	0.9151	0.0002
229	5e+12	NDD	0.9184	0.9187	0.0003
260	1e+13	NDD	0.9145	0.9155	0.001
301	1e+12	NDD	0.9136	0.9128	-0.0008
362	5e+12	NDD	0.9184	0.9172	-0.0012
365	1e+13	NDD	0.9153	0.9133	-0.002
439	1e+12	NDD	0.9155	0.9164	0.0009
514	5e+12	NDD	0.9178	0.9178	0
577	1e+13	NDD	0.9213	0.9216	0.0003
634	1e+12	NDD	0.9222	0.9225	0.0003
635	5e+12	NDD	0.918	0.9196	0.0016
713	1e+13	NDD	0.919	0.9196	0.0006
732	0	CORRELATION	0.9134	0.9137	0.0003
742	0	CORRELATION	0.9118	0.9107	-0.0011
879	0	CORRELATION	0.9262	0.9267	0.0005
880	0	CORRELATION	0.9221	0.9226	0.0005

NDD vs Post - Pre Exposure Delta

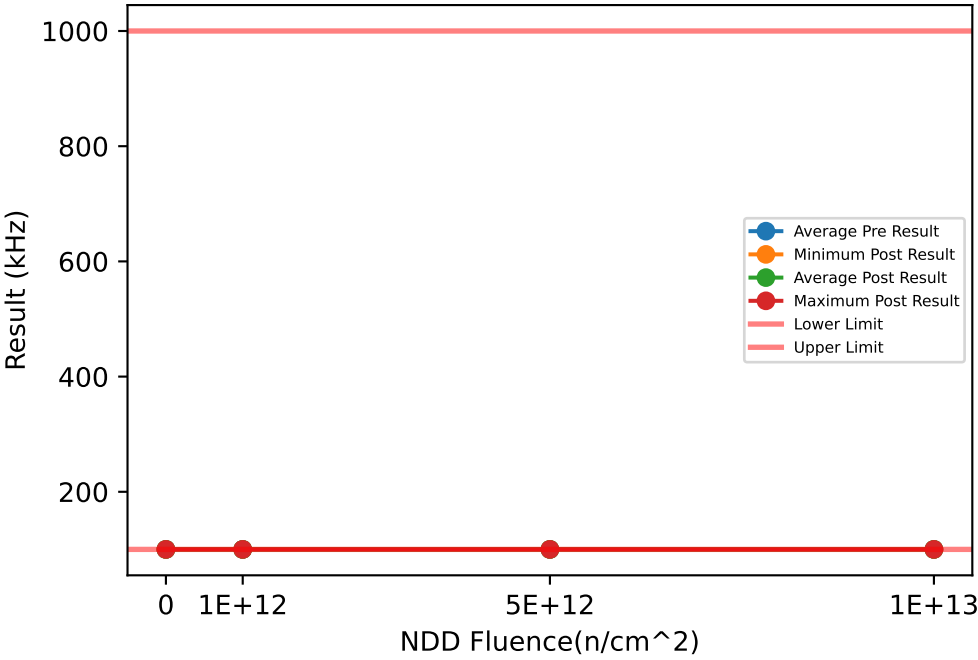


Test Statistics (Dcml)

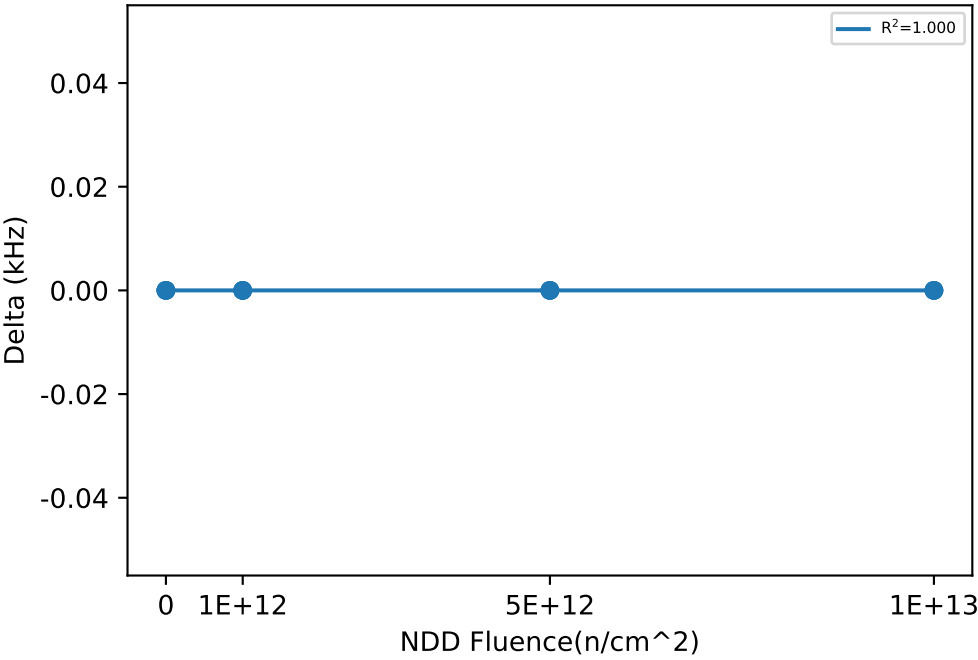
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.9118	0.91838	0.9262	0.0069062	0.9107	0.91842	0.9267	0.0074813	-0.0011	5e-05	0.0005	0.00077244
1e+12	0.9136	0.91655	0.9222	0.0038492	0.9128	0.9167	0.9225	0.0041433	-0.0008	0.00015	0.0009	0.00070475
5e+12	0.9178	0.91815	0.9184	0.0003	0.9172	0.91832	0.9196	0.00105	-0.0012	0.000175	0.0016	0.00115
1e+13	0.9145	0.91753	0.9213	0.00319	0.9133	0.9175	0.9216	0.0037798	-0.002	-2.5e-05	0.001	0.0013475

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

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



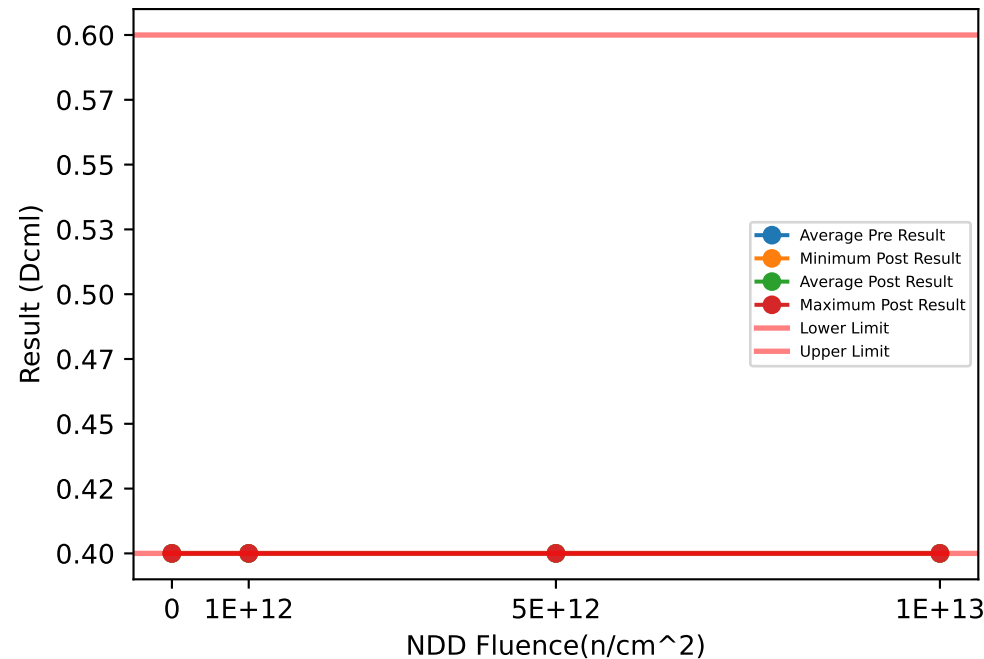
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	100	100	0
229	5e+12	NDD	100	100	0
260	1e+13	NDD	100	100	0
301	1e+12	NDD	100	100	0
362	5e+12	NDD	100	100	0
365	1e+13	NDD	100	100	0
439	1e+12	NDD	100	100	0
514	5e+12	NDD	100	100	0
577	1e+13	NDD	100	100	0
634	1e+12	NDD	100	100	0
635	5e+12	NDD	100	100	0
713	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	0	CORRELATION	100	100	0

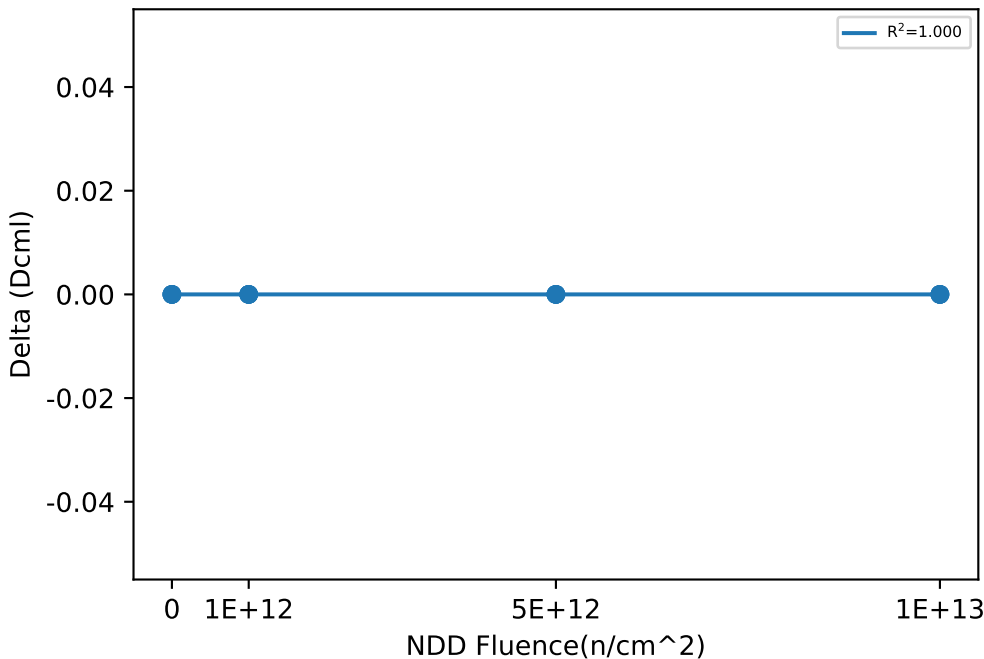
Test Statistics (kHz)

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



NDD vs Post - Pre Exposure Delta



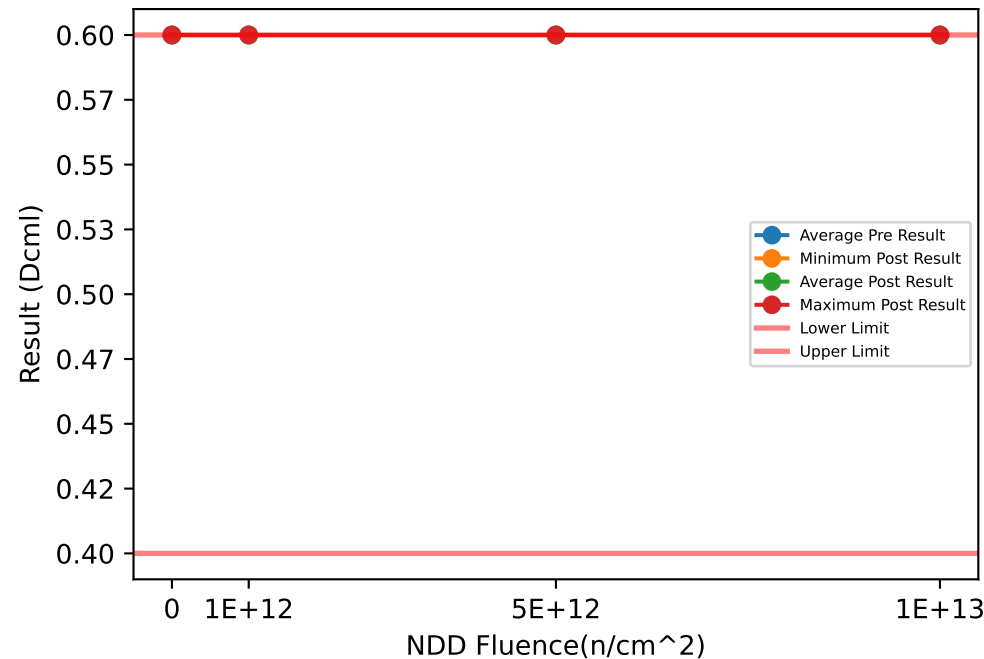
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4	0.4	0
229	5e+12	NDD	0.4	0.4	0
260	1e+13	NDD	0.4	0.4	0
301	1e+12	NDD	0.4	0.4	0
362	5e+12	NDD	0.4	0.4	0
365	1e+13	NDD	0.4	0.4	0
439	1e+12	NDD	0.4	0.4	0
514	5e+12	NDD	0.4	0.4	0
577	1e+13	NDD	0.4	0.4	0
634	1e+12	NDD	0.4	0.4	0
635	5e+12	NDD	0.4	0.4	0
713	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

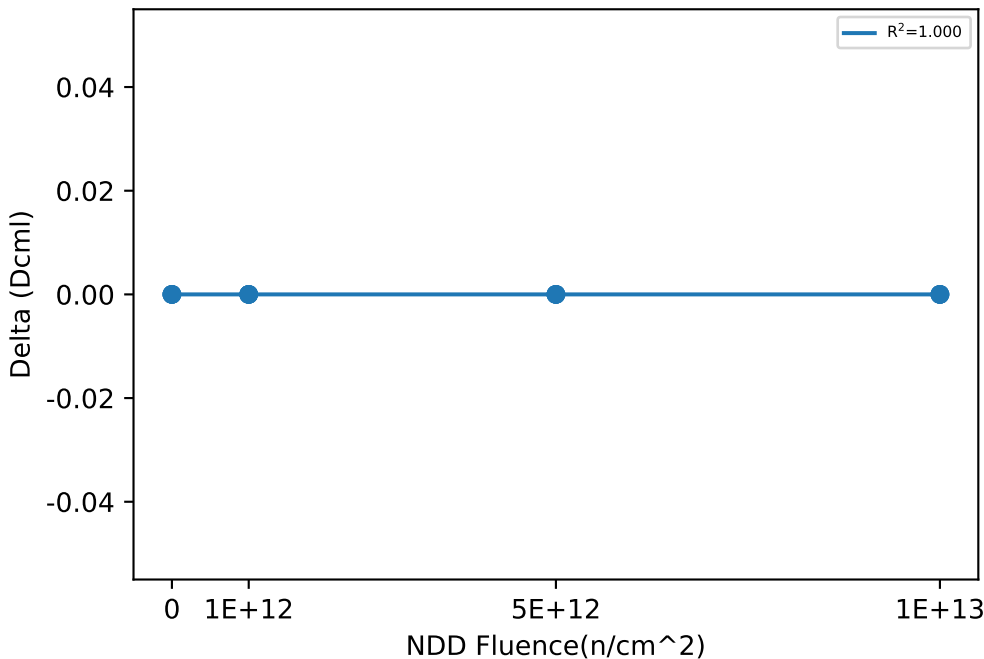
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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



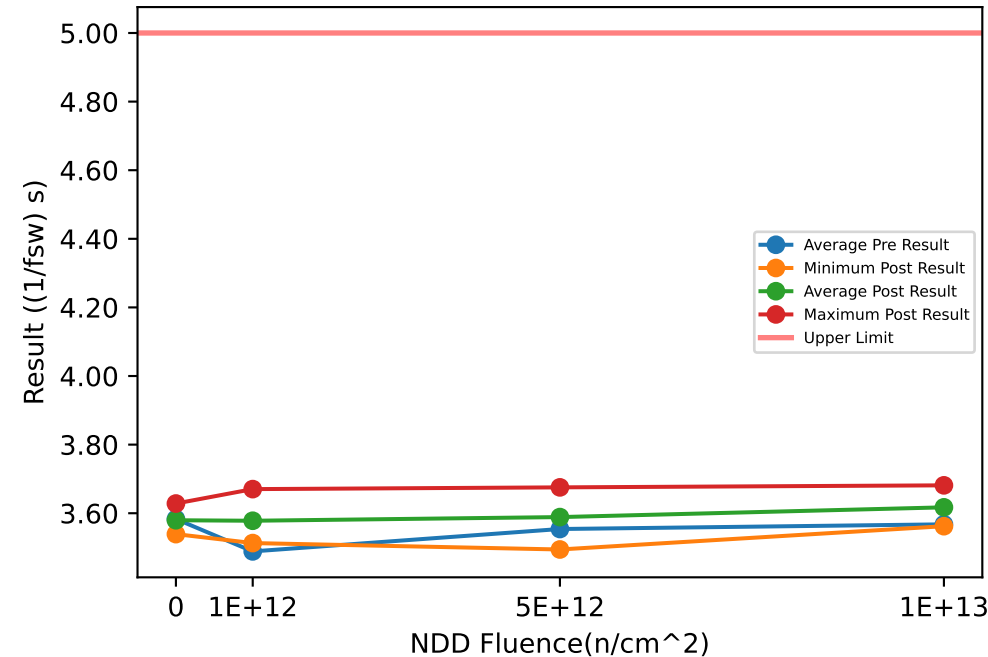
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.6	0.6	0
229	5e+12	NDD	0.6	0.6	0
260	1e+13	NDD	0.6	0.6	0
301	1e+12	NDD	0.6	0.6	0
362	5e+12	NDD	0.6	0.6	0
365	1e+13	NDD	0.6	0.6	0
439	1e+12	NDD	0.6	0.6	0
514	5e+12	NDD	0.6	0.6	0
577	1e+13	NDD	0.6	0.6	0
634	1e+12	NDD	0.6	0.6	0
635	5e+12	NDD	0.6	0.6	0
713	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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

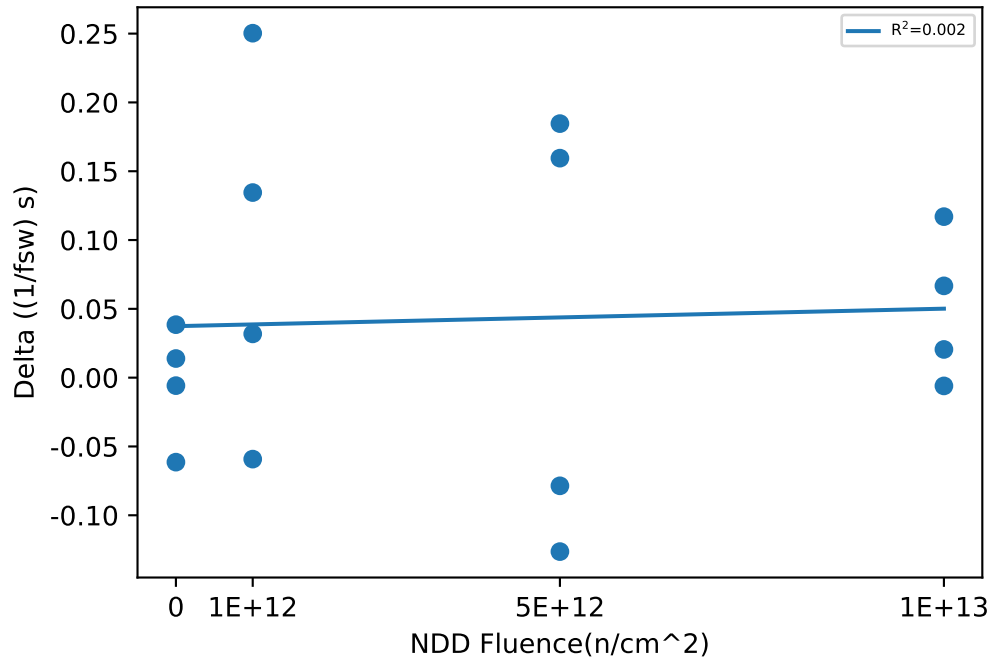
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.5722	3.513	-0.0592
229	5e+12	NDD	3.5159	3.6754	0.1595
260	1e+13	NDD	3.5734	3.5674	-0.006
301	1e+12	NDD	3.42	3.6703	0.2503
362	5e+12	NDD	3.5729	3.4943	-0.0786
365	1e+13	NDD	3.6608	3.6813	0.0205
439	1e+12	NDD	3.5104	3.5422	0.0318
514	5e+12	NDD	3.6364	3.51	-0.1264
577	1e+13	NDD	3.5408	3.6578	0.117
634	1e+12	NDD	3.4523	3.5868	0.1345
635	5e+12	NDD	3.4907	3.6753	0.1846
713	1e+13	NDD	3.4955	3.5622	0.0667
732	0	CORRELATION	3.532	3.5705	0.0385
742	0	CORRELATION	3.5663	3.5802	0.0139
879	0	CORRELATION	3.6897	3.6283	-0.0614
880	0	CORRELATION	3.5449	3.5391	-0.0058

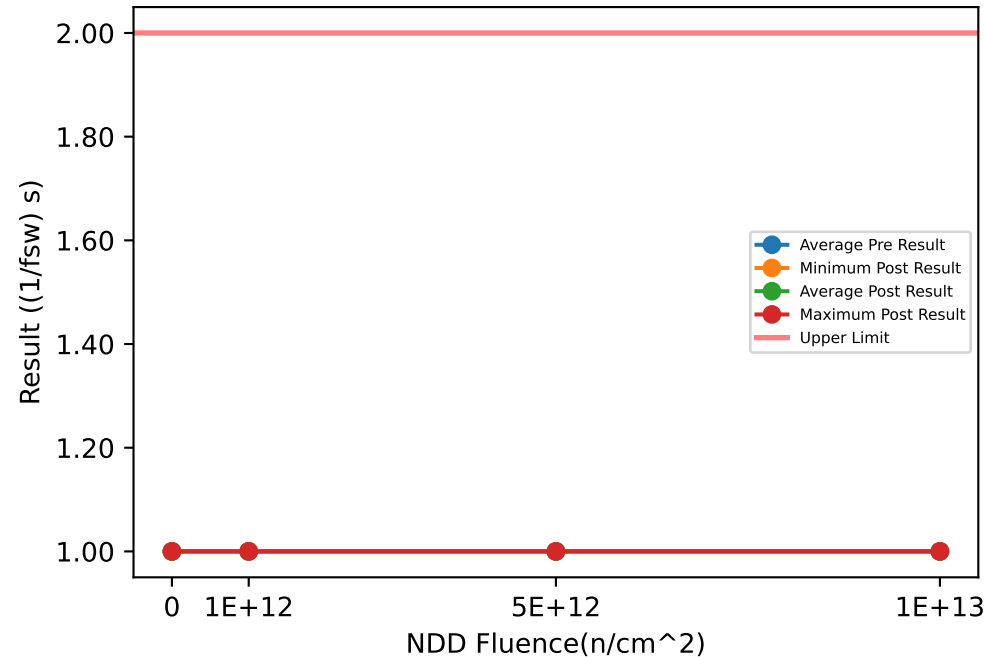
NDD vs Post - Pre Exposure Delta



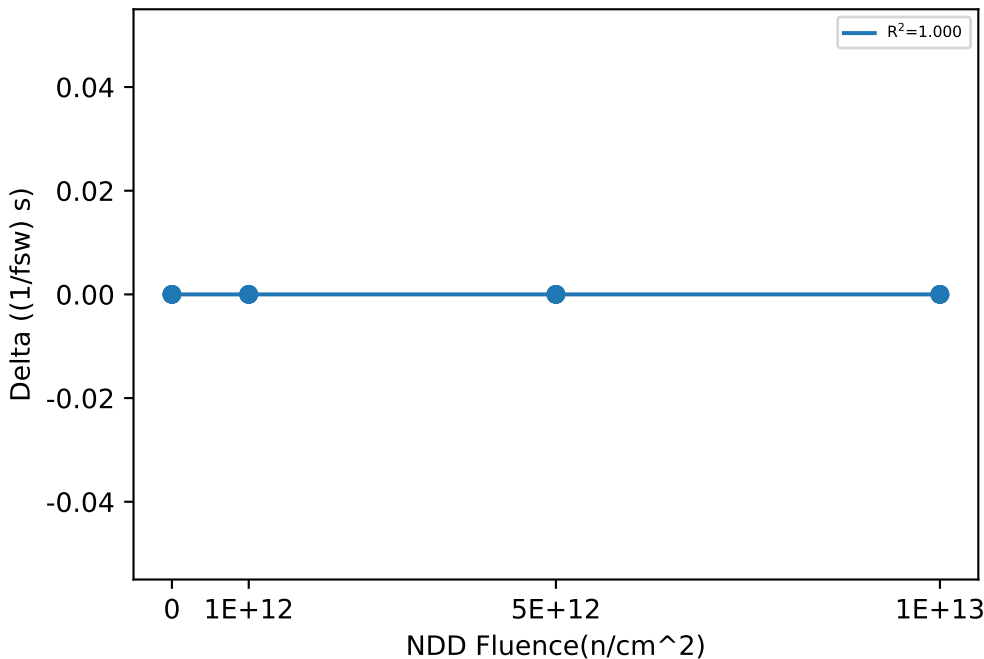
Test Statistics ((1/fsw) s)

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	3.532	3.5832	3.6897	0.072379	3.5391	3.5795	3.6283	0.036946	-0.0614	-0.0037	0.0385	0.042522
1e+12	3.42	3.4887	3.5722	0.067052	3.513	3.5781	3.6703	0.068565	-0.0592	0.08935	0.2503	0.13332
5e+12	3.4907	3.554	3.6364	0.064821	3.4943	3.5888	3.6754	0.1002	-0.1264	0.034775	0.1846	0.16004
1e+13	3.4955	3.5676	3.6608	0.069849	3.5622	3.6172	3.6813	0.06127	-0.006	0.04955	0.117	0.054078

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



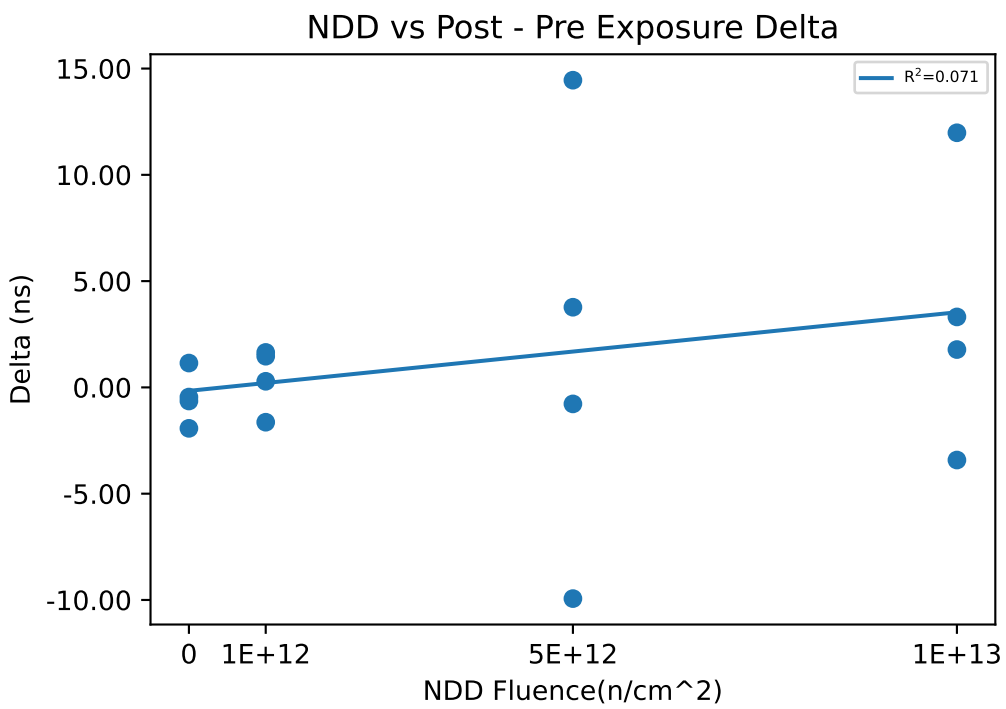
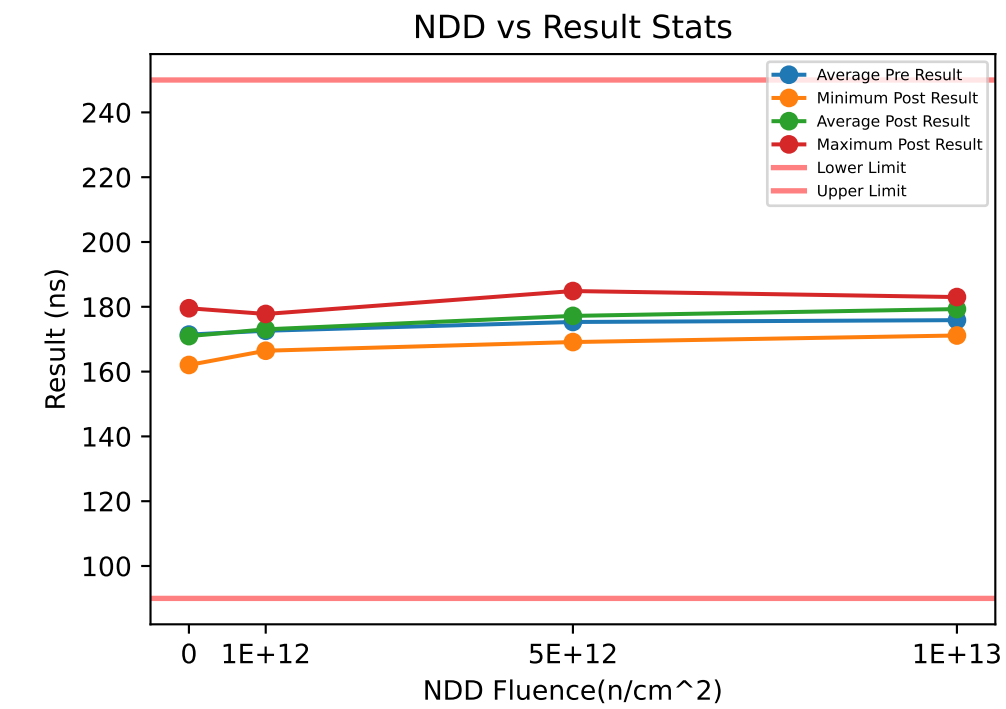
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1	1	0
229	5e+12	NDD	1	1	0
260	1e+13	NDD	1	1	0
301	1e+12	NDD	1	1	0
362	5e+12	NDD	1	1	0
365	1e+13	NDD	1	1	0
439	1e+12	NDD	1	1	0
514	5e+12	NDD	1	1	0
577	1e+13	NDD	1	1	0
634	1e+12	NDD	1	1	0
635	5e+12	NDD	1	1	0
713	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	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

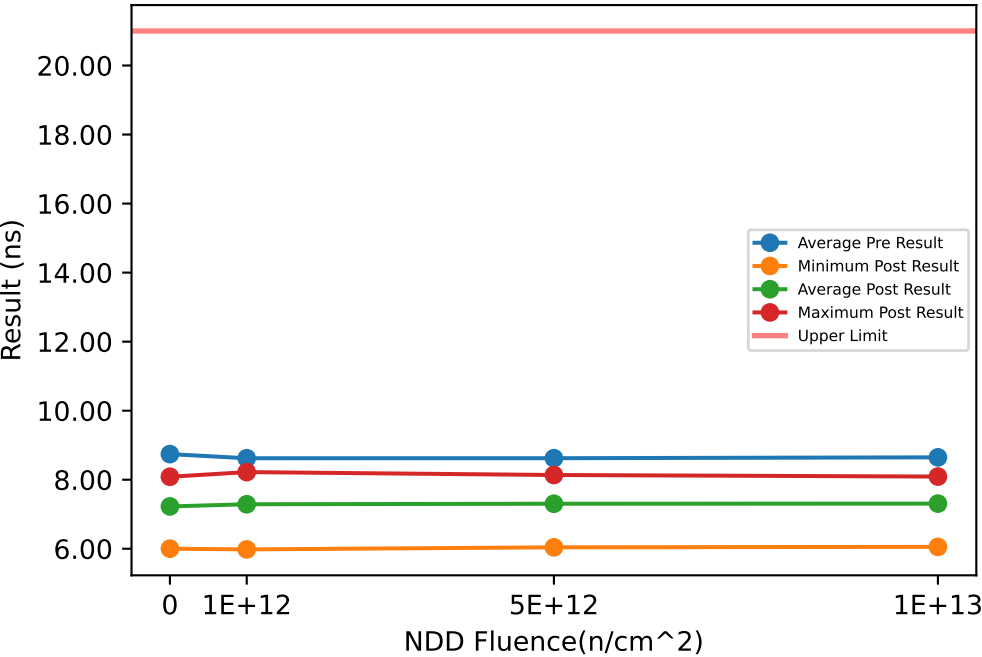
Device Test: 24.105 TIMING|DELAY/SYNC1/12//511k/4011/@SYNC1_SW_DELAY_OUTPUT



Test Results (Lower Limit = 90.0, Upper Limit = 250.0 (ns))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	166.15	166.44	0.2875
229	5e+12	NDD	179.06	169.12	-9.9356
260	1e+13	NDD	174.56	171.14	-3.4169
301	1e+12	NDD	176.14	177.79	1.6457
362	5e+12	NDD	170.41	184.86	14.452
365	1e+13	NDD	177.93	181.25	3.3153
439	1e+12	NDD	170.39	171.86	1.4672
514	5e+12	NDD	181.3	180.52	-0.7765
577	1e+13	NDD	169.8	181.78	11.979
634	1e+12	NDD	177.73	176.09	-1.6378
635	5e+12	NDD	170.5	174.27	3.7717
713	1e+13	NDD	181.22	183	1.7809
732	0	CORRELATION	162.5	162.04	-0.4544
742	0	CORRELATION	178.41	179.55	1.1455
879	0	CORRELATION	176.04	174.11	-1.9258
880	0	CORRELATION	168.74	168.1	-0.6397

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	162.5	171.42	178.41	7.2325	162.04	170.95	179.55	7.5599	-1.9258	-0.4686	1.1455	1.2594
1e+12	166.15	172.6	177.73	5.3328	166.44	173.05	177.79	5.06	-1.6378	0.44065	1.6457	1.511
5e+12	170.41	175.31	181.3	5.6876	169.12	177.19	184.86	6.9198	-9.9356	1.878	14.452	10.138
1e+13	169.8	175.88	181.22	4.8809	171.14	179.29	183	5.4821	-3.4169	3.4146	11.979	6.3952

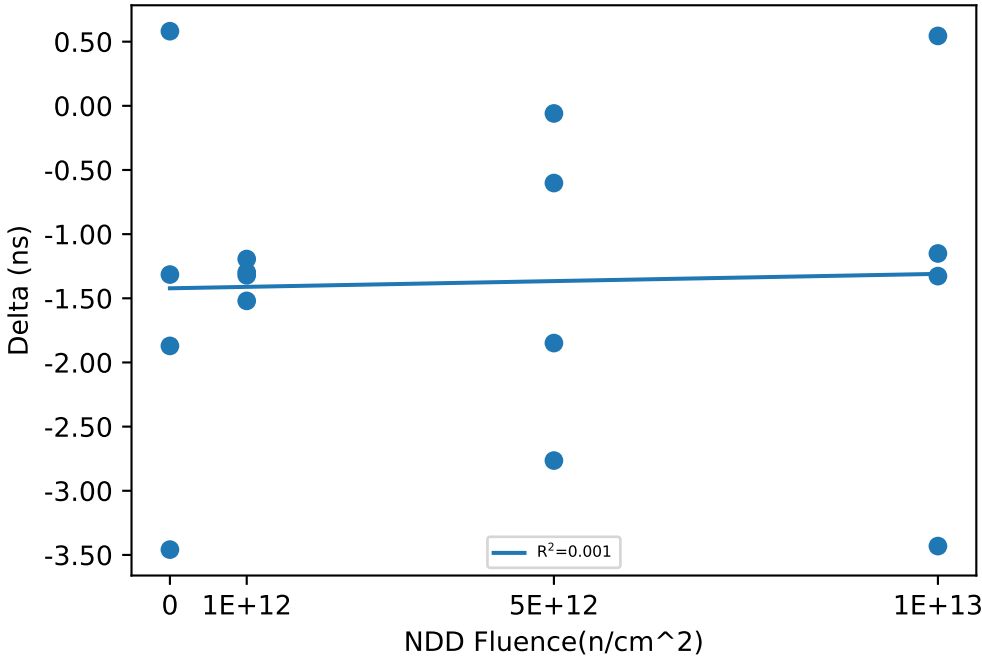
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.7047	7.4075	-1.2972
229	5e+12	NDD	7.5108	7.4514	-0.0594
260	1e+13	NDD	8.7537	7.4265	-1.3272
301	1e+12	NDD	9.5415	8.2205	-1.321
362	5e+12	NDD	8.7383	8.1365	-0.6018
365	1e+13	NDD	7.5465	8.0913	0.5448
439	1e+12	NDD	8.7408	7.5469	-1.1939
514	5e+12	NDD	9.4371	7.5882	-1.8489
577	1e+13	NDD	8.8074	7.6568	-1.1506
634	1e+12	NDD	7.5013	5.9812	-1.5201
635	5e+12	NDD	8.8057	6.0412	-2.7645
713	1e+13	NDD	9.4856	6.0546	-3.431
732	0	CORRELATION	8.7085	7.3936	-1.3149
742	0	CORRELATION	7.5037	8.0853	0.5816
879	0	CORRELATION	9.4604	6.002	-3.4584
880	0	CORRELATION	9.2944	7.4234	-1.871

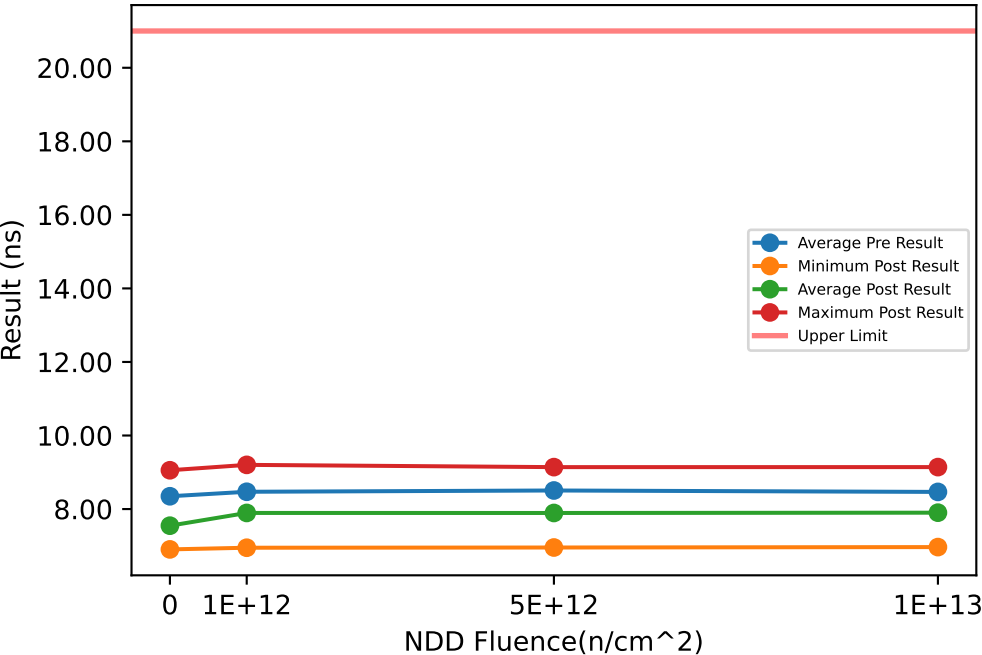
NDD vs Post - Pre Exposure Delta



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	7.5037	8.7417	9.4604	0.88614	6.002	7.2261	8.0853	0.87629	-3.4584	-1.5157	0.5816	1.6673
1e+12	7.5013	8.6221	9.5415	0.84111	5.9812	7.289	8.2205	0.94138	-1.5201	-1.3331	-1.1939	0.13636
5e+12	7.5108	8.623	9.4371	0.80549	6.0412	7.3043	8.1365	0.8926	-2.7645	-1.3187	-0.0594	1.2208
1e+13	7.5465	8.6483	9.4856	0.80653	6.0546	7.3073	8.0913	0.87945	-3.431	-1.341	0.5448	1.629

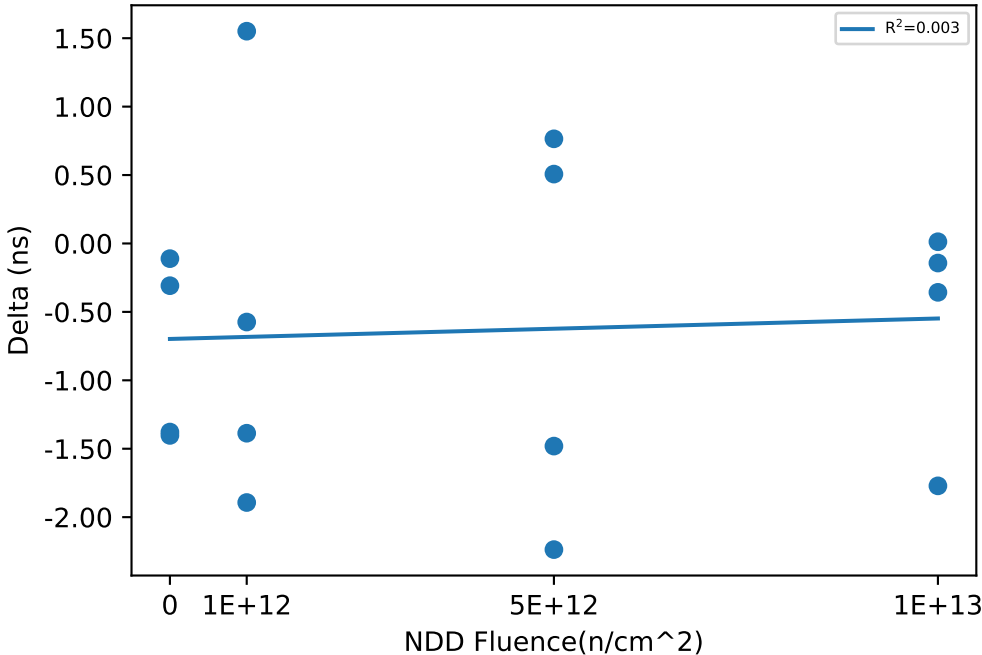
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.335	6.9483	-1.3867
229	5e+12	NDD	9.1915	6.9544	-2.2371
260	1e+13	NDD	8.737	6.9657	-1.7713
301	1e+12	NDD	7.6504	9.2016	1.5512
362	5e+12	NDD	8.3756	9.1403	0.7647
365	1e+13	NDD	9.1284	9.141	0.0126
439	1e+12	NDD	8.7606	8.1865	-0.5741
514	5e+12	NDD	7.6296	8.1366	0.507
577	1e+13	NDD	8.3889	8.2459	-0.143
634	1e+12	NDD	9.134	7.241	-1.893
635	5e+12	NDD	8.8232	7.3425	-1.4807
713	1e+13	NDD	7.6105	7.2534	-0.3571
732	0	CORRELATION	8.3304	6.9523	-1.3781
742	0	CORRELATION	9.1659	9.055	-0.1109
879	0	CORRELATION	7.5895	7.281	-0.3085
880	0	CORRELATION	8.3056	6.903	-1.4026

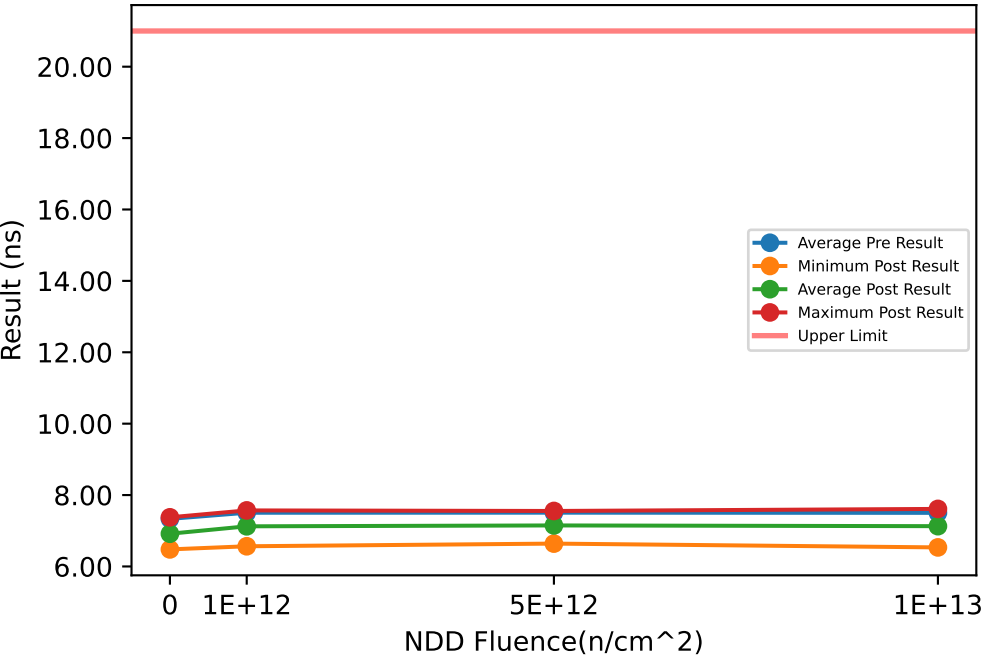
NDD vs Post - Pre Exposure Delta



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	7.5895	8.3479	9.1659	0.64456	6.903	7.5478	9.055	1.0187	-1.4026	-0.80003	-0.1109	0.68648
1e+12	7.6504	8.47	9.134	0.63648	6.9483	7.8943	9.2016	1.0192	-1.893	-0.57565	1.5512	1.5184
5e+12	7.6296	8.505	9.1915	0.67221	6.9544	7.8934	9.1403	0.96594	-2.2371	-0.61153	0.7647	1.4768
1e+13	7.6105	8.4662	9.1284	0.64551	6.9657	7.9015	9.141	0.99175	-1.7713	-0.5647	0.0126	0.81855

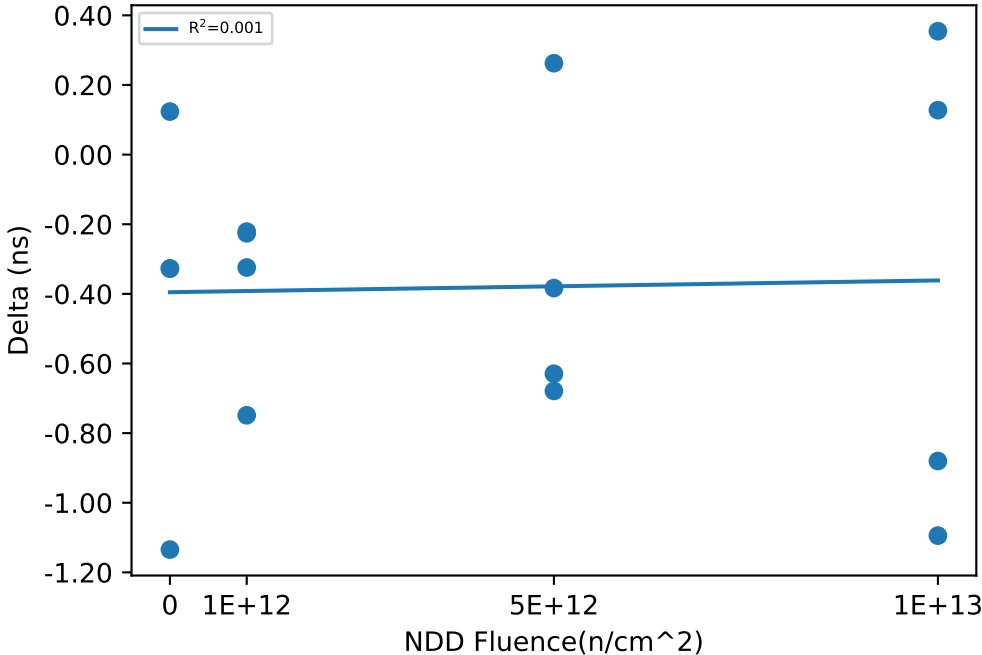
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.262	6.9377	-0.3243
229	5e+12	NDD	7.635	6.9561	-0.6789
260	1e+13	NDD	7.8228	6.9426	-0.8802
301	1e+12	NDD	7.3143	6.5655	-0.7488
362	5e+12	NDD	7.2698	6.6403	-0.6295
365	1e+13	NDD	7.6283	6.5339	-1.0944
439	1e+12	NDD	7.7914	7.5701	-0.2213
514	5e+12	NDD	7.2919	7.5544	0.2625
577	1e+13	NDD	7.2575	7.612	0.3545
634	1e+12	NDD	7.6508	7.4248	-0.226
635	5e+12	NDD	7.8293	7.4459	-0.3834
713	1e+13	NDD	7.2978	7.4255	0.1277
732	0	CORRELATION	7.2449	6.9174	-0.3275
742	0	CORRELATION	7.6125	6.4779	-1.1346
879	0	CORRELATION	7.2531	7.3767	0.1236
880	0	CORRELATION	7.2224	6.8954	-0.327

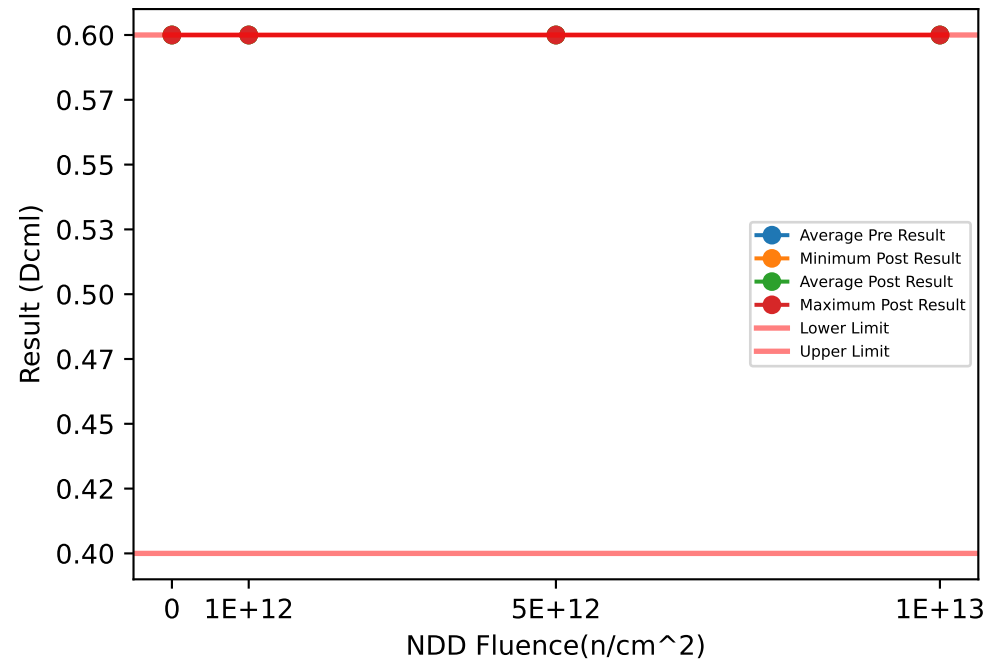
NDD vs Post - Pre Exposure Delta



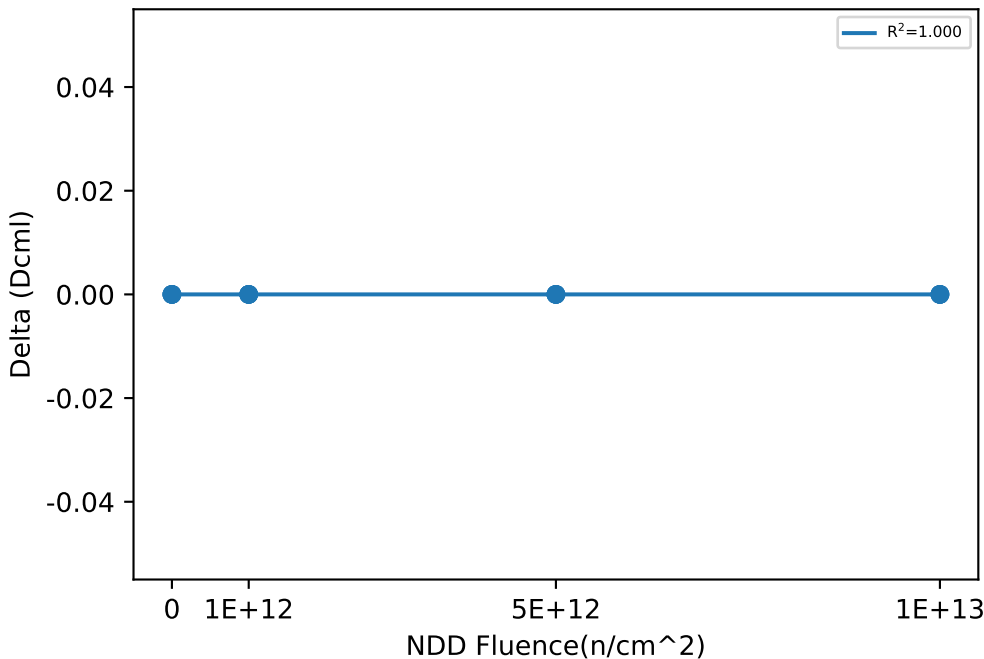
Test Statistics (ns)

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	7.2224	7.3332	7.6125	0.18664	6.4779	6.9169	7.3767	0.36724	-1.1346	-0.41638	0.1236	0.52387
1e+12	7.262	7.5046	7.7914	0.25736	6.5655	7.1245	7.5701	0.46048	-0.7488	-0.3801	-0.2213	0.25034
5e+12	7.2698	7.5065	7.8293	0.27251	6.6403	7.1492	7.5544	0.42758	-0.6789	-0.35732	0.2625	0.43296
1e+13	7.2575	7.5016	7.8228	0.27101	6.5339	7.1285	7.612	0.48651	-1.0944	-0.3731	0.3545	0.72056

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



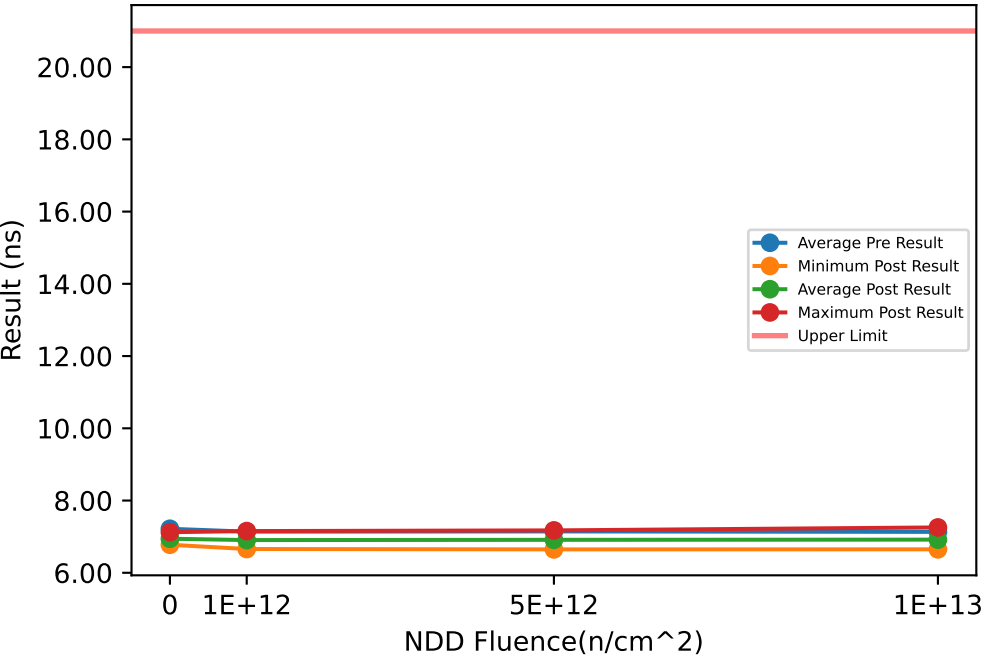
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.6	0.6	0
229	5e+12	NDD	0.6	0.6	0
260	1e+13	NDD	0.6	0.6	0
301	1e+12	NDD	0.6	0.6	0
362	5e+12	NDD	0.6	0.6	0
365	1e+13	NDD	0.6	0.6	0
439	1e+12	NDD	0.6	0.6	0
514	5e+12	NDD	0.6	0.6	0
577	1e+13	NDD	0.6	0.6	0
634	1e+12	NDD	0.6	0.6	0
635	5e+12	NDD	0.6	0.6	0
713	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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

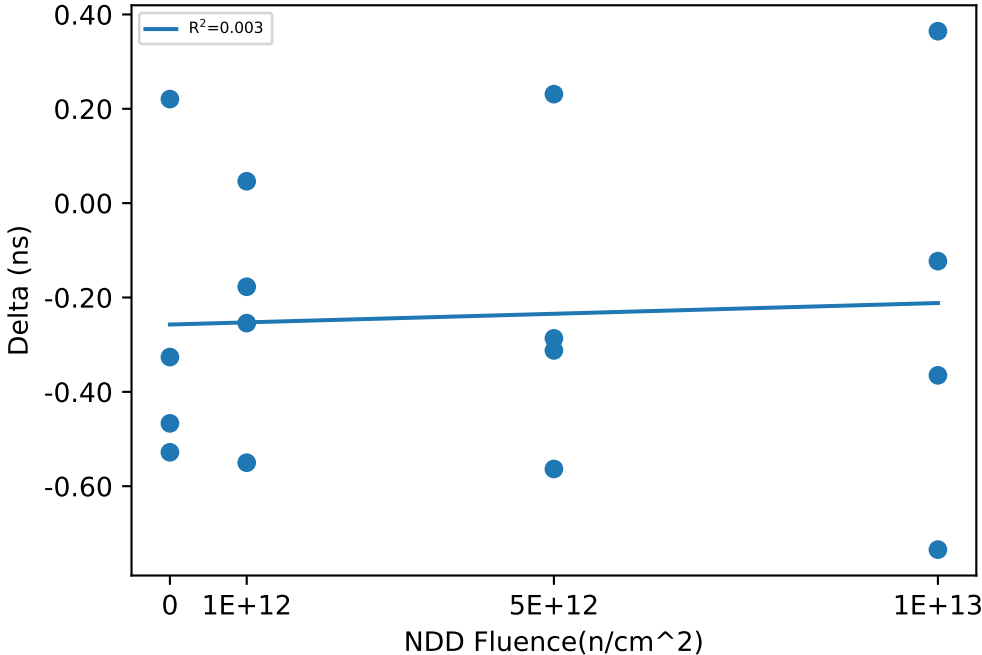
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.3648	6.8146	-0.5502
229	5e+12	NDD	7.3535	6.79	-0.5635
260	1e+13	NDD	6.9098	6.7869	-0.1229
301	1e+12	NDD	6.9482	6.9946	0.0464
362	5e+12	NDD	7.3514	7.0392	-0.3122
365	1e+13	NDD	7.3458	6.9808	-0.365
439	1e+12	NDD	6.9121	6.6578	-0.2543
514	5e+12	NDD	6.9341	6.6474	-0.2867
577	1e+13	NDD	7.3834	6.649	-0.7344
634	1e+12	NDD	7.3318	7.1546	-0.1772
635	5e+12	NDD	6.9426	7.1737	0.2311
713	1e+13	NDD	6.8909	7.2554	0.3645
732	0	CORRELATION	7.3601	6.8933	-0.4668
742	0	CORRELATION	7.3055	6.9792	-0.3263
879	0	CORRELATION	6.9026	7.1232	0.2206
880	0	CORRELATION	7.3048	6.7767	-0.5281

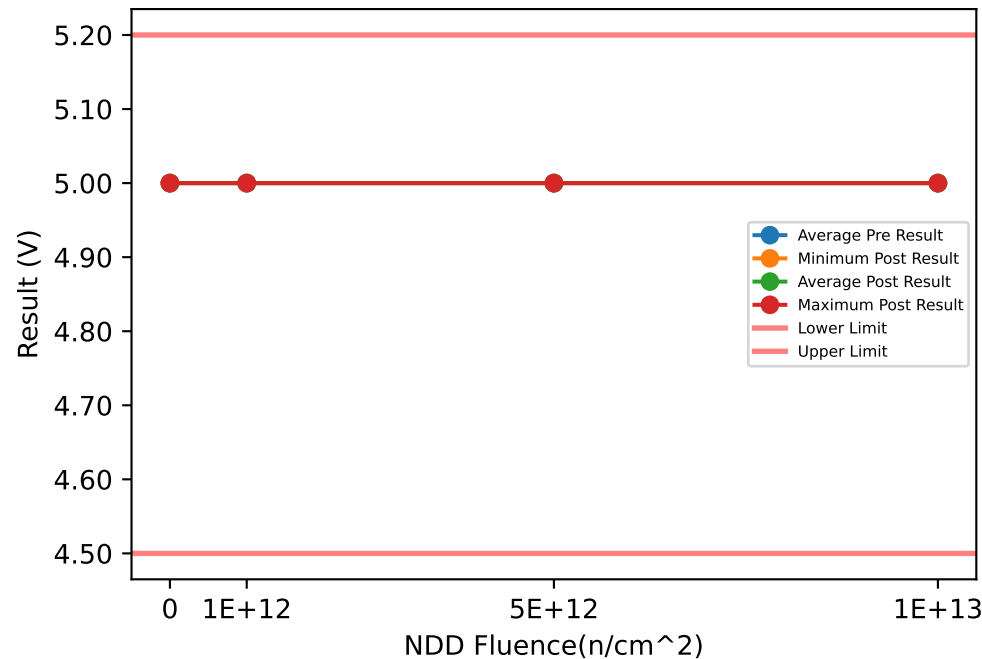
NDD vs Post - Pre Exposure Delta



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	6.9026	7.2183	7.3601	0.21202	6.7767	6.9431	7.1232	0.14595	-0.5281	-0.27515	0.2206	0.34112
1e+12	6.9121	7.1392	7.3648	0.24224	6.6578	6.9054	7.1546	0.21572	-0.5502	-0.23382	0.0464	0.24647
5e+12	6.9341	7.1454	7.3535	0.23911	6.6474	6.9126	7.1737	0.23774	-0.5635	-0.23282	0.2311	0.33355
1e+13	6.8909	7.1325	7.3834	0.26858	6.649	6.918	7.2554	0.26289	-0.7344	-0.21445	0.3645	0.46064

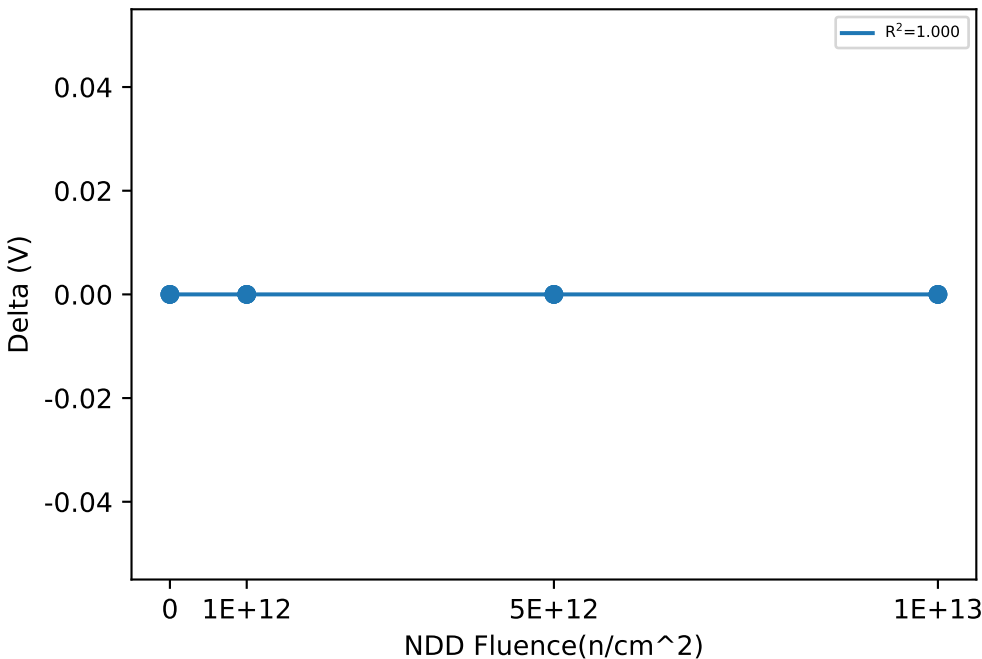
NDD vs Result Stats



Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5	5	0
229	5e+12	NDD	5	5	0
260	1e+13	NDD	5	5	0
301	1e+12	NDD	5	5	0
362	5e+12	NDD	5	5	0
365	1e+13	NDD	5	5	0
439	1e+12	NDD	5	5	0
514	5e+12	NDD	5	5	0
577	1e+13	NDD	5	5	0
634	1e+12	NDD	5	5	0
635	5e+12	NDD	5	5	0
713	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

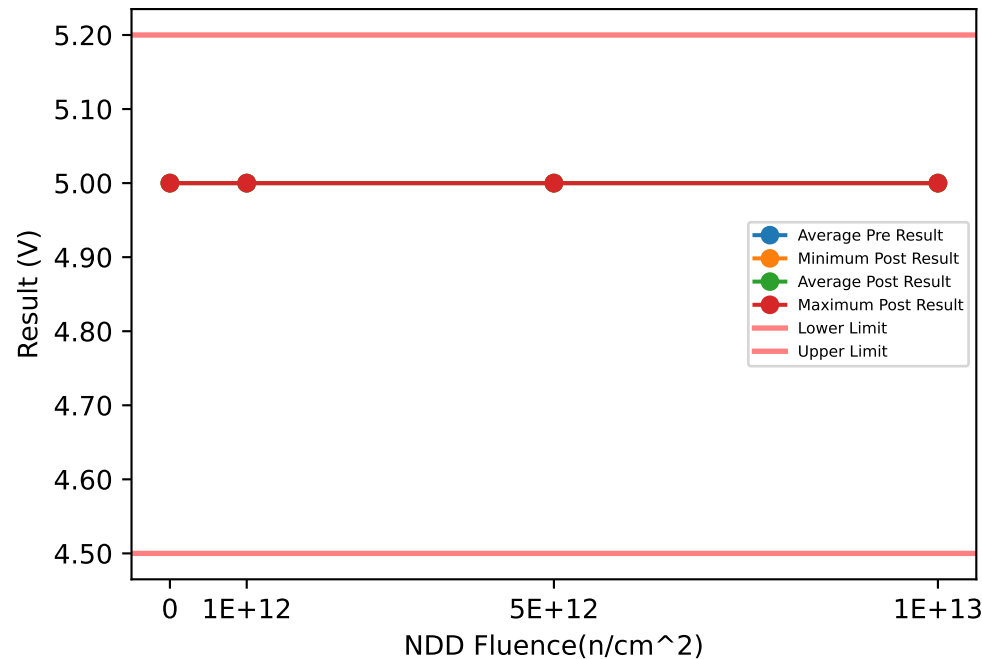
NDD vs Post - Pre Exposure Delta



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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

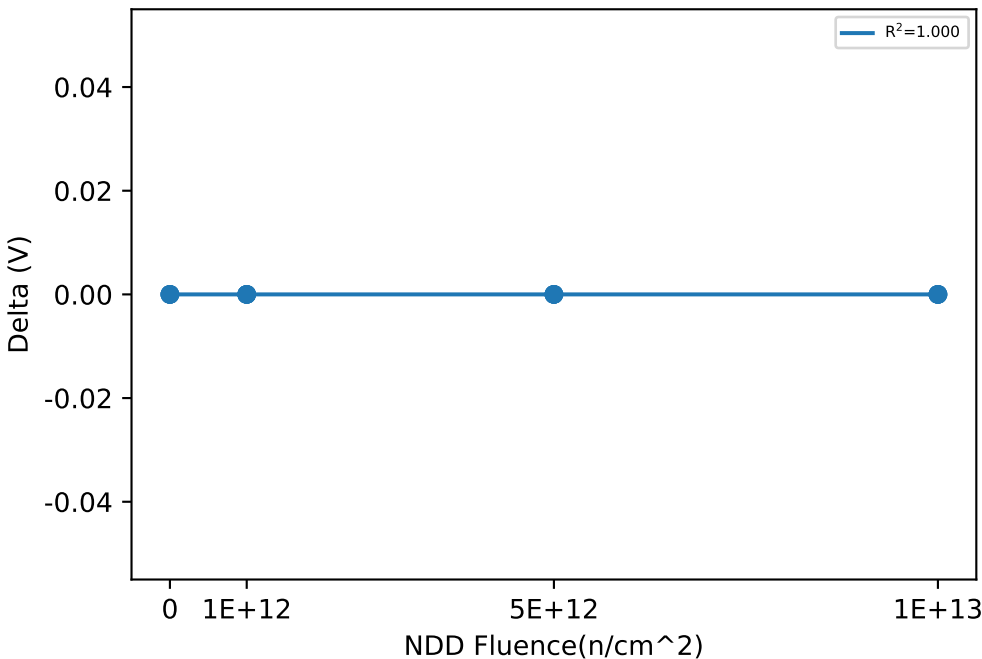
NDD vs Result Stats



Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5	5	0
229	5e+12	NDD	5	5	0
260	1e+13	NDD	5	5	0
301	1e+12	NDD	5	5	0
362	5e+12	NDD	5	5	0
365	1e+13	NDD	5	5	0
439	1e+12	NDD	5	5	0
514	5e+12	NDD	5	5	0
577	1e+13	NDD	5	5	0
634	1e+12	NDD	5	5	0
635	5e+12	NDD	5	5	0
713	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

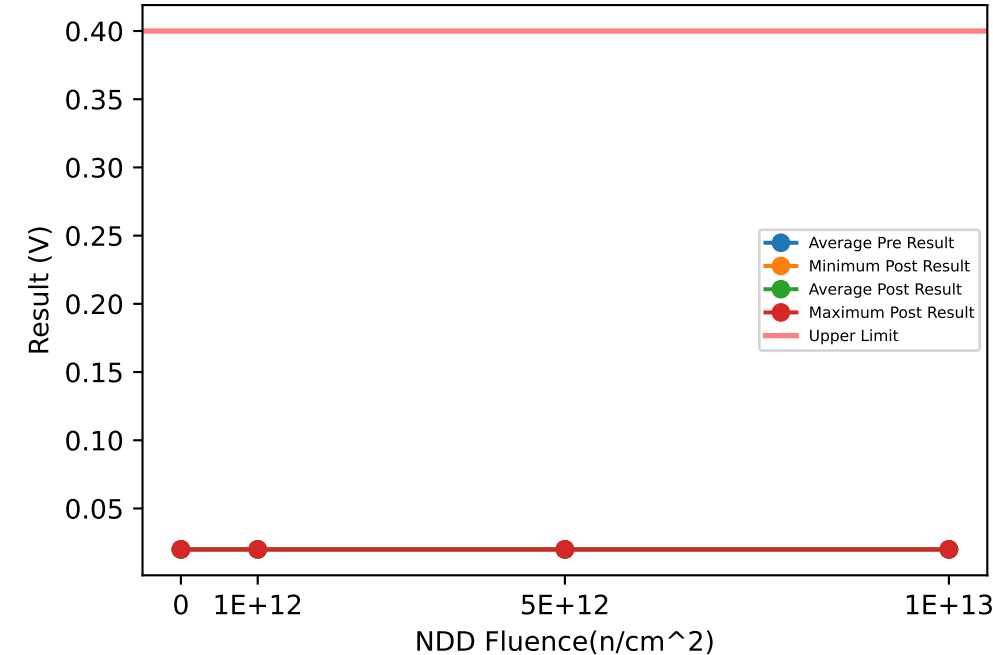
NDD vs Post - Pre Exposure Delta



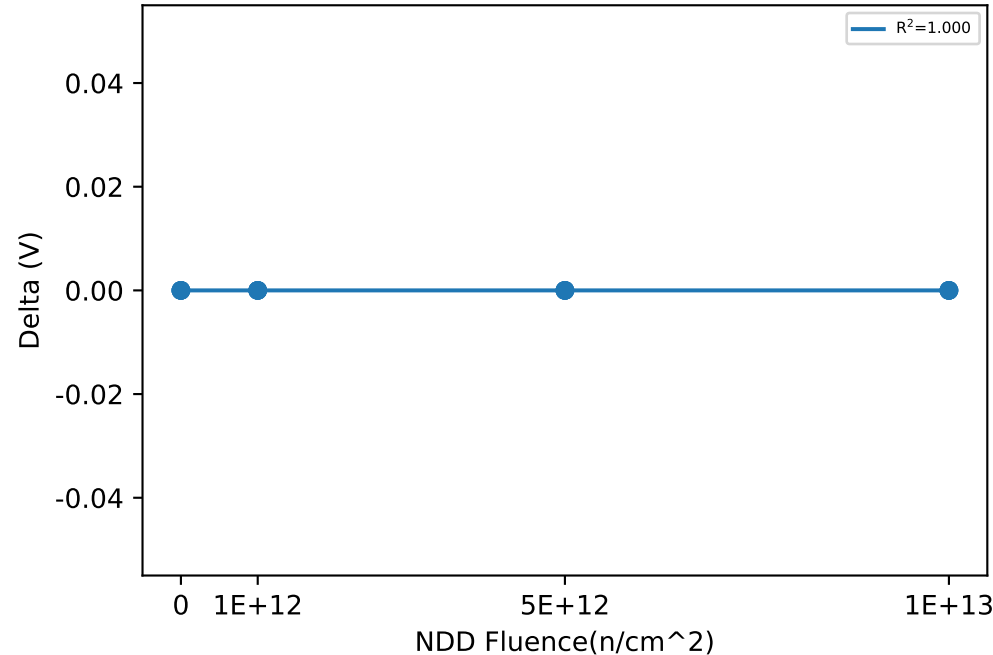
Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



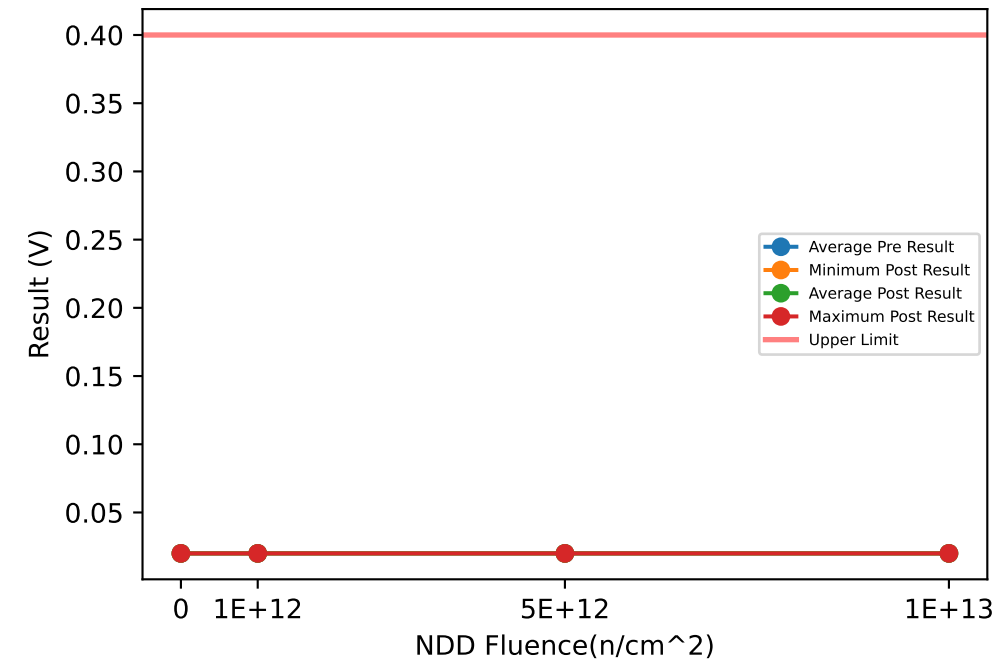
Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

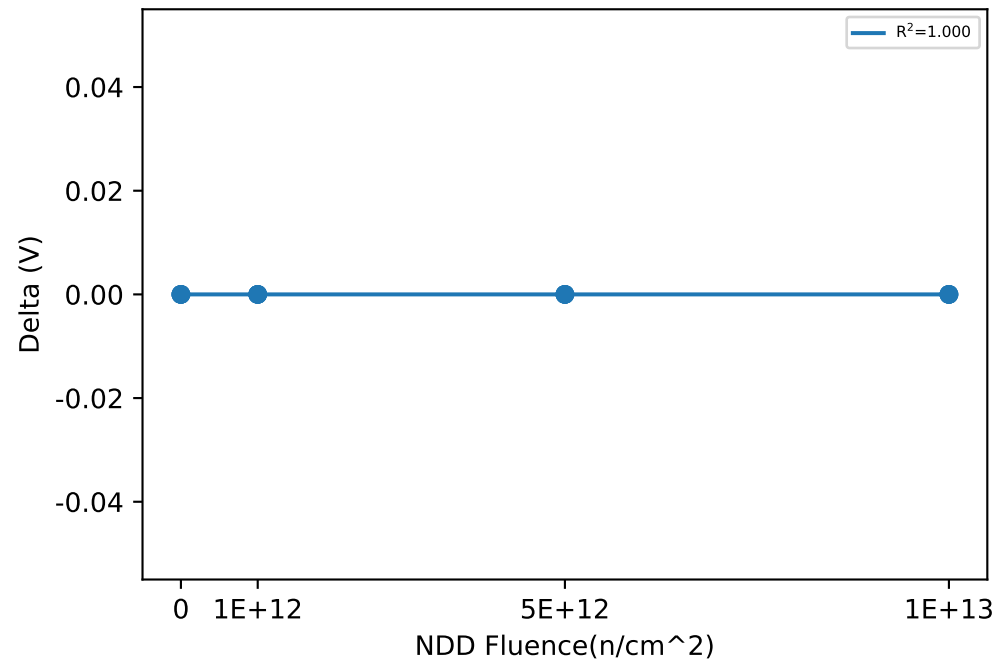
Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



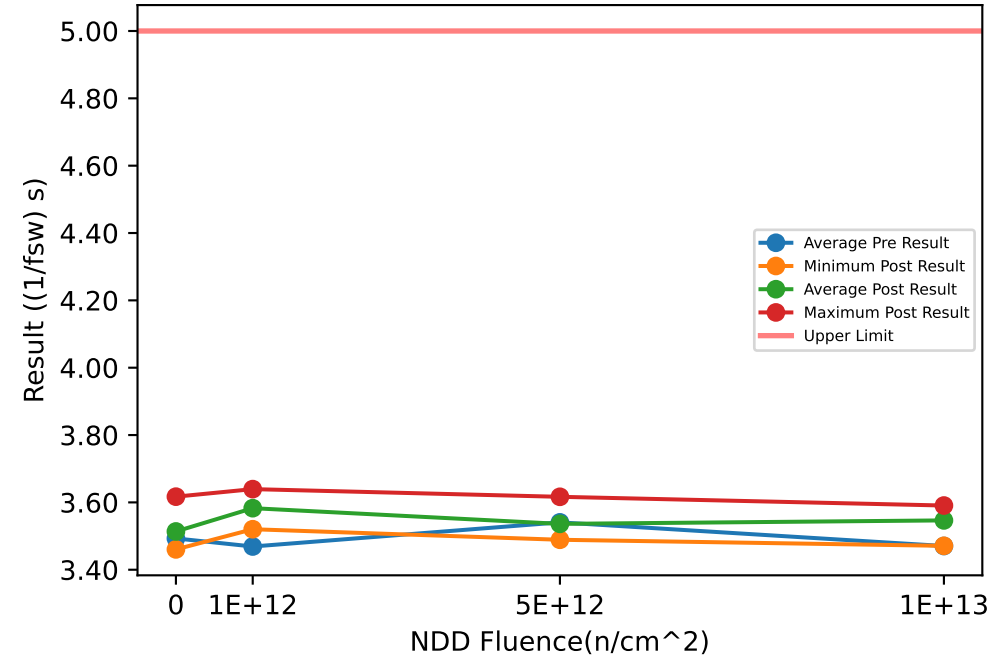
Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

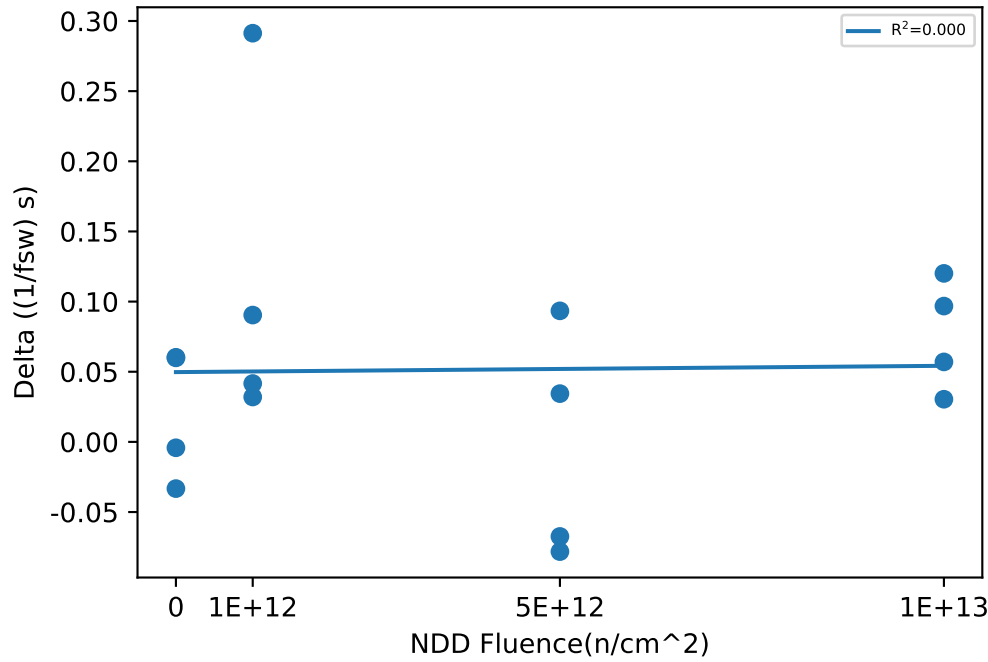
NDD vs Result Stats



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

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.5357	3.6261	0.0904
229	5e+12	NDD	3.599	3.5316	-0.0674
260	1e+13	NDD	3.3742	3.471	0.0968
301	1e+12	NDD	3.5135	3.5455	0.032
362	5e+12	NDD	3.5672	3.489	-0.0782
365	1e+13	NDD	3.5377	3.5681	0.0304
439	1e+12	NDD	3.3481	3.6394	0.2913
514	5e+12	NDD	3.5822	3.6166	0.0344
577	1e+13	NDD	3.4362	3.5563	0.1201
634	1e+12	NDD	3.4787	3.5203	0.0416
635	5e+12	NDD	3.4144	3.5078	0.0934
713	1e+13	NDD	3.5337	3.5907	0.057
732	0	CORRELATION	3.5195	3.5153	-0.0042
742	0	CORRELATION	3.5571	3.617	0.0599
879	0	CORRELATION	3.4953	3.462	-0.0333
880	0	CORRELATION	3.4001	3.4604	0.0603

NDD vs Post - Pre Exposure Delta

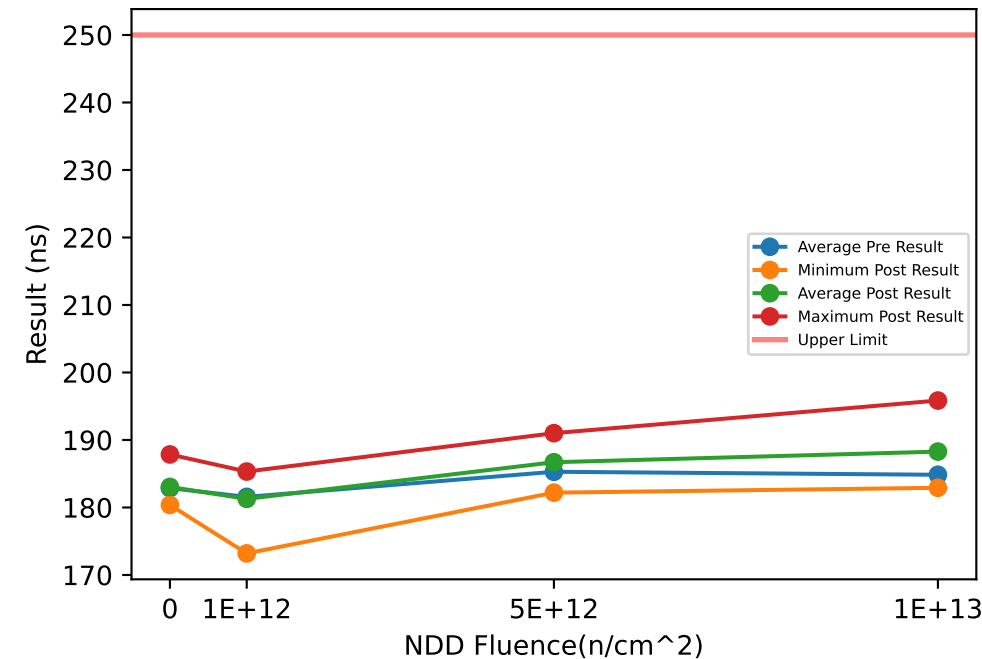


Test Statistics ((1/fsw) s)

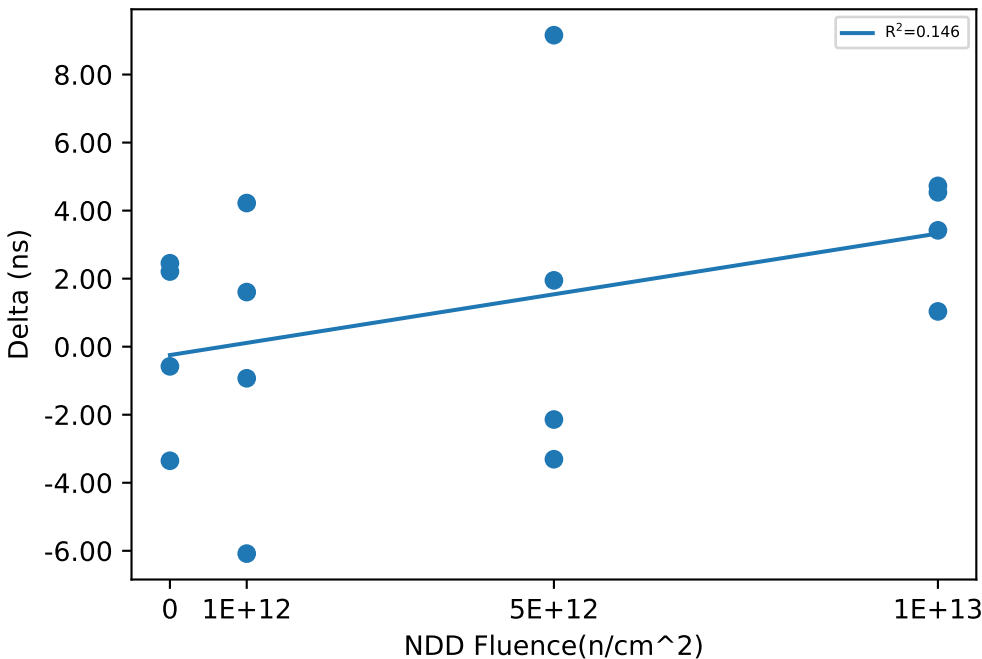
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	3.4001	3.493	3.5571	0.06695	3.4604	3.5137	3.617	0.073456	-0.0333	0.020675	0.0603	0.047049
1e+12	3.3481	3.469	3.5357	0.083945	3.5203	3.5828	3.6394	0.05881	0.032	0.11383	0.2913	0.12105
5e+12	3.4144	3.5407	3.599	0.085196	3.489	3.5362	3.6166	0.056331	-0.0782	-0.00445	0.0934	0.082635
1e+13	3.3742	3.4705	3.5377	0.079499	3.471	3.5465	3.5907	0.052334	0.0304	0.076075	0.1201	0.040074

Device Test: 24.120 TIMING|MINON/SW/12//511k//@ON_TIME_MIN_12V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 250.0 (ns))

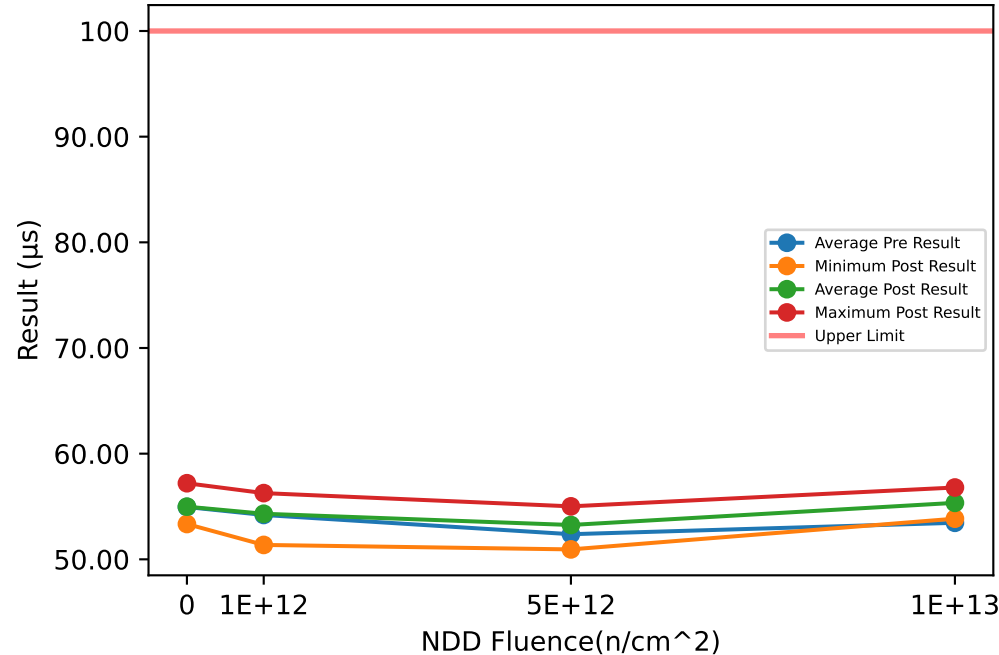
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	183.72	185.32	1.6059
229	5e+12	NDD	181.85	191.01	9.1565
260	1e+13	NDD	191.12	195.84	4.7264
301	1e+12	NDD	179.28	173.2	-6.0824
362	5e+12	NDD	185.51	182.2	-3.3083
365	1e+13	NDD	179.5	182.92	3.4202
439	1e+12	NDD	183.01	182.08	-0.929
514	5e+12	NDD	188.35	190.3	1.9498
577	1e+13	NDD	183.49	188.03	4.5378
634	1e+12	NDD	180.28	184.51	4.2224
635	5e+12	NDD	185.45	183.31	-2.1412
713	1e+13	NDD	185.29	186.33	1.0365
732	0	CORRELATION	185.65	187.86	2.2088
742	0	CORRELATION	180.95	180.38	-0.5785
879	0	CORRELATION	184.91	181.56	-3.3532
880	0	CORRELATION	179.94	182.39	2.4533

Test Statistics (ns)

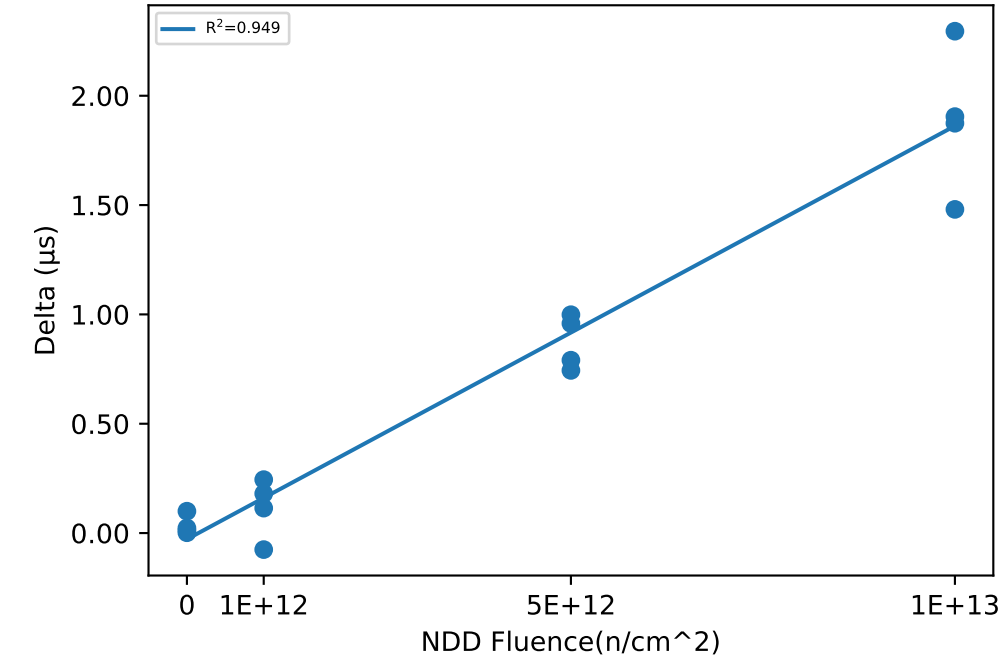
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	179.94	182.86	185.65	2.8383	180.38	183.04	187.86	3.3131	-3.3532	0.1826	2.4533	2.729
1e+12	179.28	181.57	183.72	2.1262	173.2	181.28	185.32	5.559	-6.0824	-0.29577	4.2224	4.3938
5e+12	181.85	185.29	188.35	2.6611	182.2	186.7	191.01	4.5921	-3.3083	1.4142	9.1565	5.6324
1e+13	179.5	184.85	191.12	4.8297	182.92	188.28	195.84	5.4727	1.0365	3.4302	4.7264	1.6967

Device Test: 24.121 TIMING|DELAY/EN/12//511k//@T_EN_DELAY

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



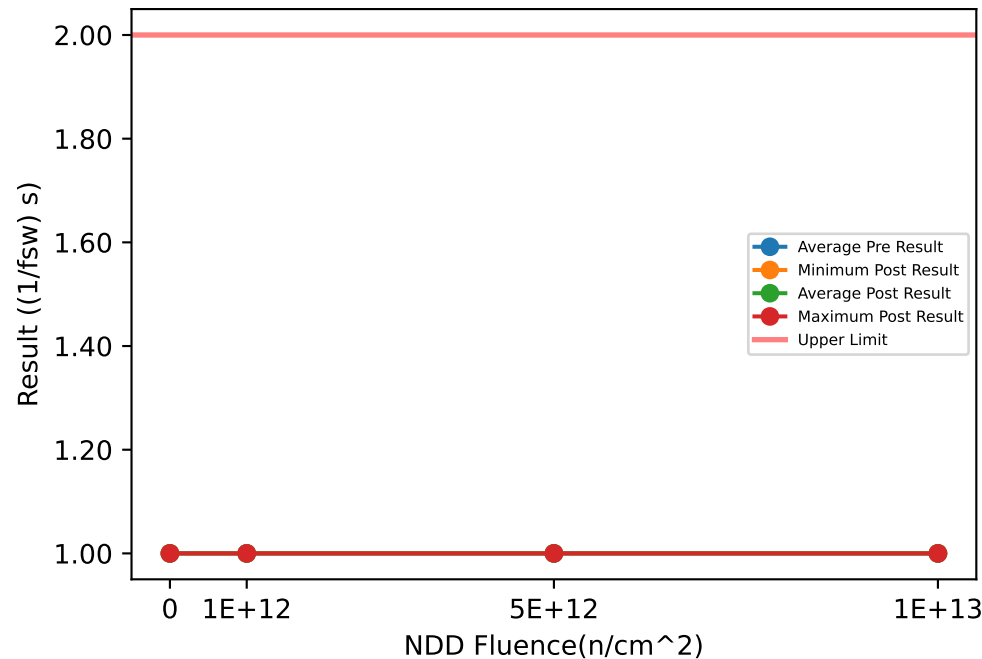
Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	53.449	53.693	0.2444
229	5e+12	NDD	51.747	52.746	0.9986
260	1e+13	NDD	52.455	54.75	2.2952
301	1e+12	NDD	51.438	51.362	-0.0756
362	5e+12	NDD	54.27	55.014	0.7439
365	1e+13	NDD	52.367	53.847	1.4803
439	1e+12	NDD	56.086	56.267	0.1803
514	5e+12	NDD	53.343	54.301	0.9587
577	1e+13	NDD	54.923	56.797	1.8742
634	1e+12	NDD	55.818	55.932	0.1141
635	5e+12	NDD	50.149	50.94	0.7906
713	1e+13	NDD	54.083	55.987	1.9046
732	0	CORRELATION	57.189	57.201	0.0123
742	0	CORRELATION	54.965	55.065	0.1
879	0	CORRELATION	53.319	53.342	0.0231
880	0	CORRELATION	54.327	54.328	0.0015

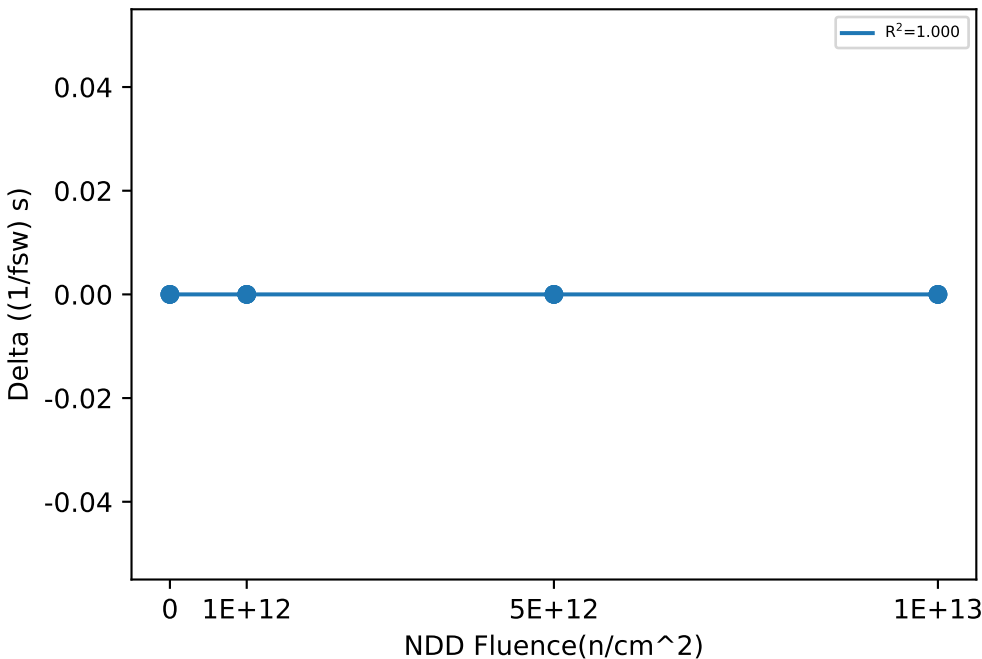
Test Statistics (µs)

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	53.319	54.95	57.189	1.6393	53.342	54.984	57.201	1.6379	0.0015	0.034225	0.1	0.044728
1e+12	51.438	54.198	56.086	2.1886	51.362	54.314	56.267	2.2752	-0.0756	0.1158	0.2444	0.13825
5e+12	50.149	52.377	54.27	1.8143	50.94	53.25	55.014	1.808	0.7439	0.87295	0.9986	0.1246
1e+13	52.367	53.457	54.923	1.2561	53.847	55.345	56.797	1.3063	1.4803	1.8886	2.2952	0.33291

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



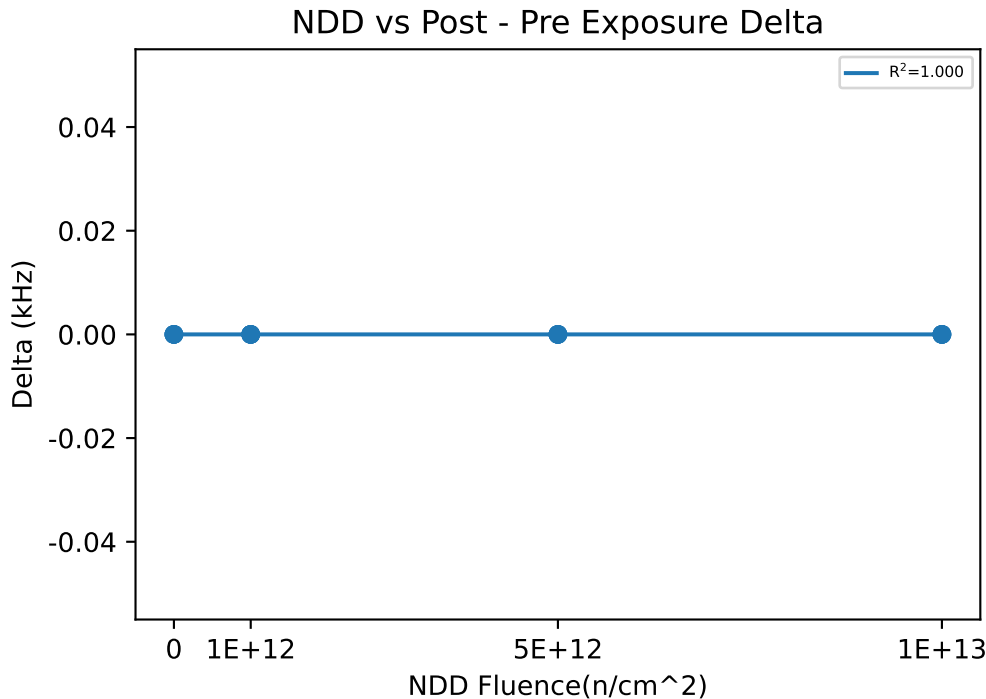
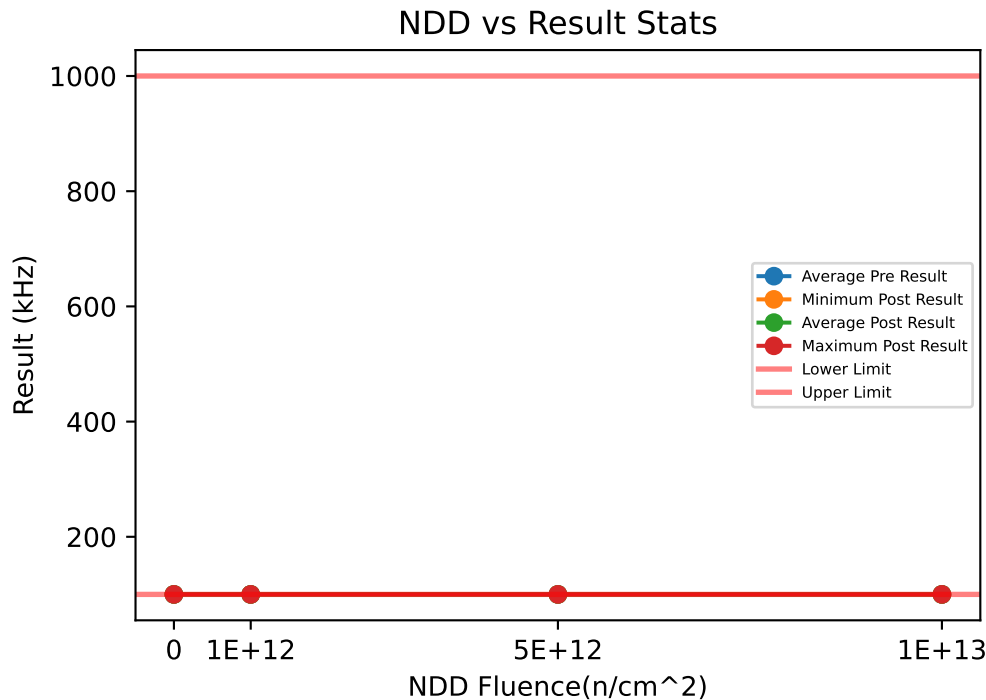
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1	1	0
229	5e+12	NDD	1	1	0
260	1e+13	NDD	1	1	0
301	1e+12	NDD	1	1	0
362	5e+12	NDD	1	1	0
365	1e+13	NDD	1	1	0
439	1e+12	NDD	1	1	0
514	5e+12	NDD	1	1	0
577	1e+13	NDD	1	1	0
634	1e+12	NDD	1	1	0
635	5e+12	NDD	1	1	0
713	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	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: 24.133 FREQ|100kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE



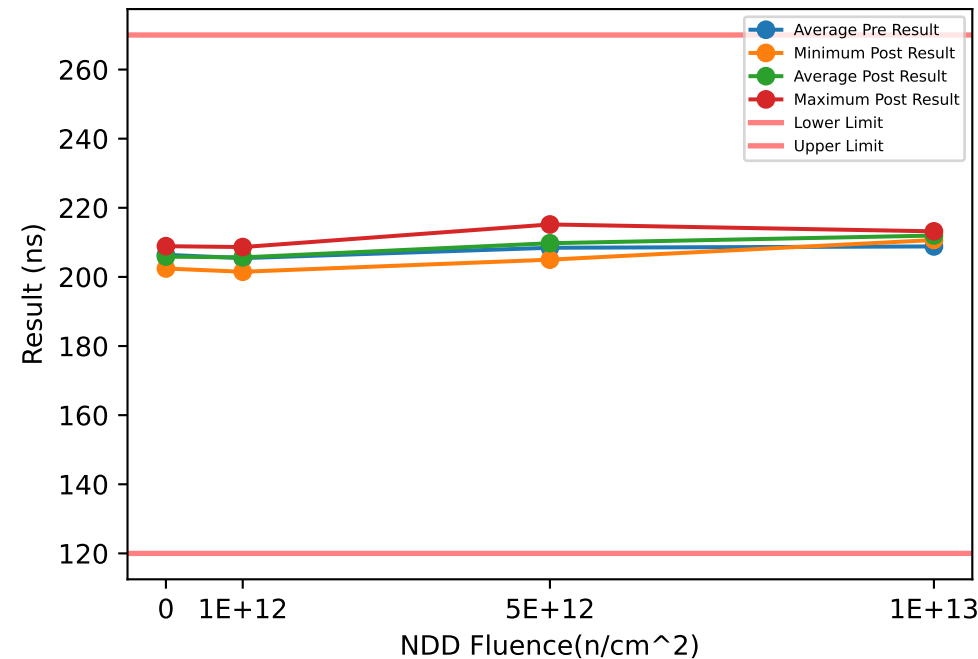
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	100	100	0
229	5e+12	NDD	100	100	0
260	1e+13	NDD	100	100	0
301	1e+12	NDD	100	100	0
362	5e+12	NDD	100	100	0
365	1e+13	NDD	100	100	0
439	1e+12	NDD	100	100	0
514	5e+12	NDD	100	100	0
577	1e+13	NDD	100	100	0
634	1e+12	NDD	100	100	0
635	5e+12	NDD	100	100	0
713	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	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

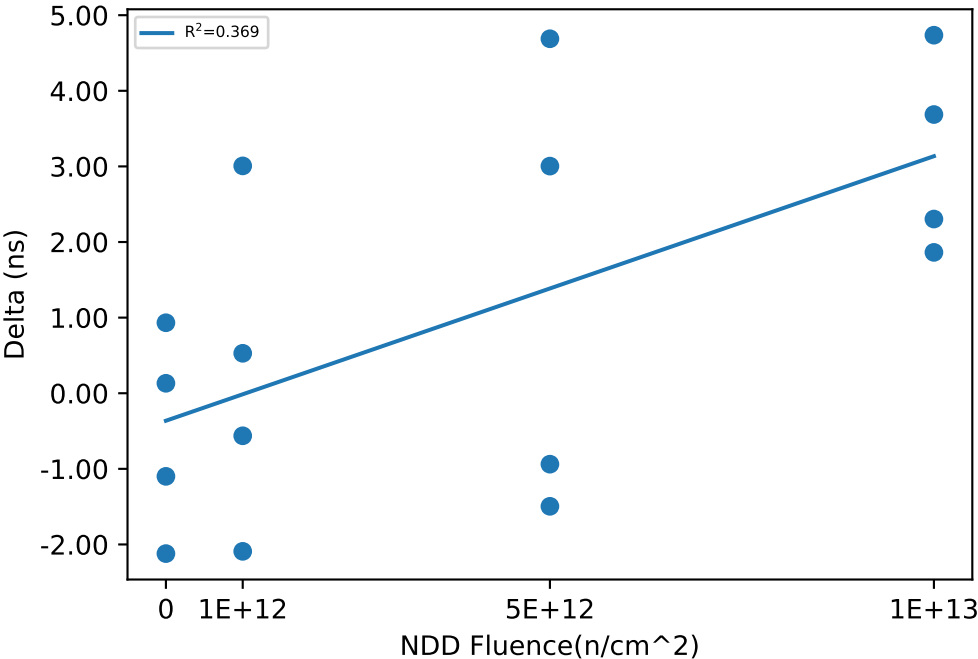
NDD vs Result Stats



Test Results (Lower Limit = 120.0, Upper Limit = 270.0 (ns))

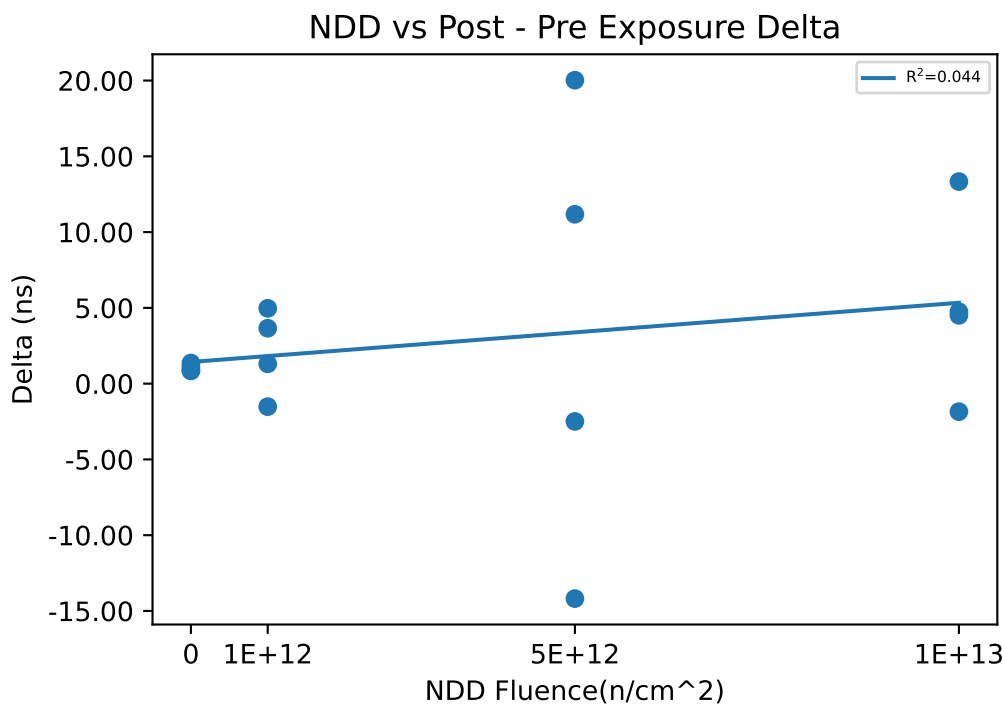
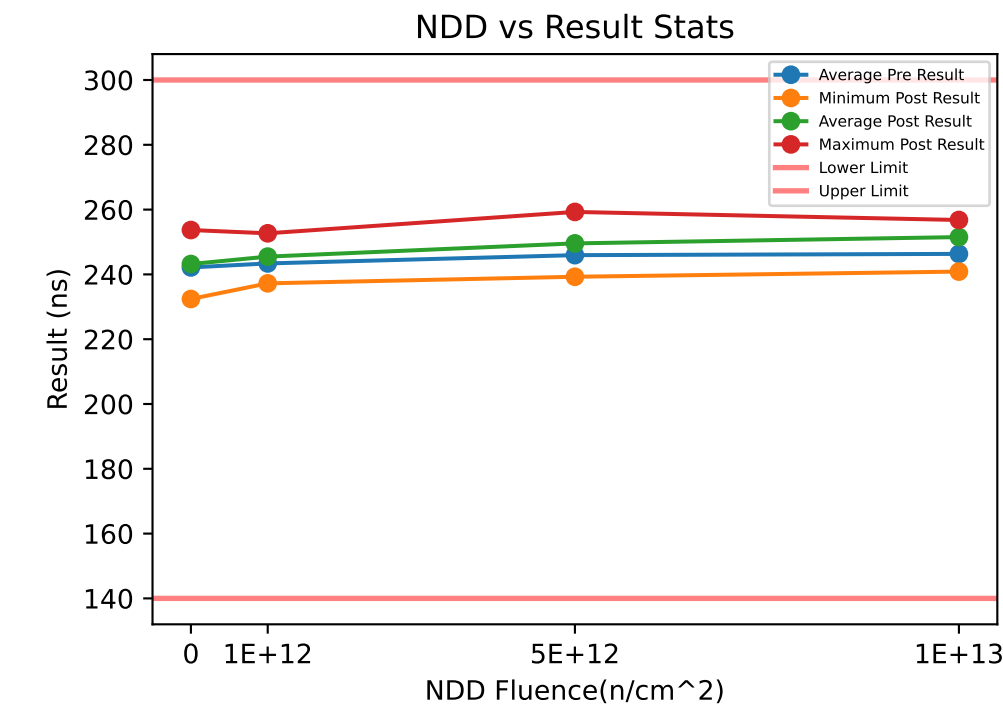
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	206.79	206.23	-0.5627
229	5e+12	NDD	209.27	208.34	-0.9383
260	1e+13	NDD	205.95	210.68	4.7354
301	1e+12	NDD	205.63	208.64	3.0069
362	5e+12	NDD	210.49	215.18	4.6883
365	1e+13	NDD	208.36	212.05	3.6862
439	1e+12	NDD	200.96	201.49	0.5283
514	5e+12	NDD	211.99	210.49	-1.4956
577	1e+13	NDD	209.65	211.96	2.3039
634	1e+12	NDD	208.34	206.25	-2.0911
635	5e+12	NDD	201.99	204.99	3.004
713	1e+13	NDD	211.33	213.19	1.8629
732	0	CORRELATION	202.3	202.44	0.1316
742	0	CORRELATION	207.96	208.89	0.9323
879	0	CORRELATION	206.09	203.97	-2.1209
880	0	CORRELATION	209.27	208.17	-1.0993

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	202.3	206.41	209.27	3.0311	202.44	205.87	208.89	3.1549	-2.1209	-0.53907	0.9323	1.3455
1e+12	200.96	205.43	208.34	3.1788	201.49	205.65	208.64	2.9964	-2.0911	0.22035	3.0069	2.146
5e+12	201.99	208.44	211.99	4.4404	204.99	209.75	215.18	4.27	-1.4956	1.3146	4.6883	3.0116
1e+13	205.95	208.82	211.33	2.268	210.68	211.97	213.19	1.0244	1.8629	3.1471	4.7354	1.3132



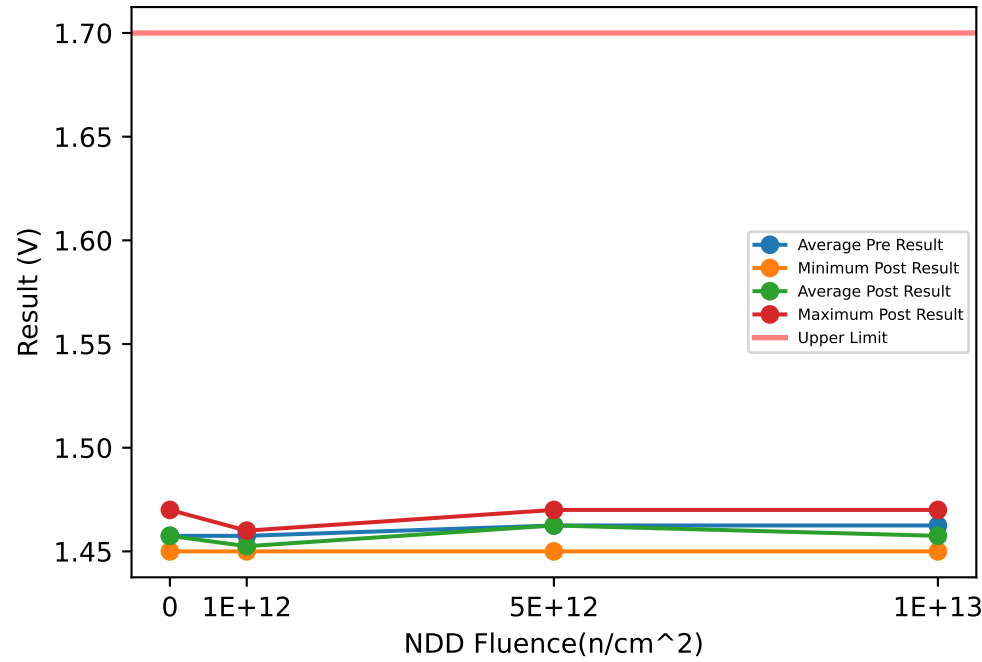
Test Results (Lower Limit = 140.0, Upper Limit = 300.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	235.93	237.24	1.309
229	5e+12	NDD	253.46	239.27	-14.185
260	1e+13	NDD	242.71	240.86	-1.8499
301	1e+12	NDD	247.71	252.68	4.9696
362	5e+12	NDD	239.25	259.28	20.024
365	1e+13	NDD	251.81	256.55	4.7453
439	1e+12	NDD	238.19	241.84	3.6554
514	5e+12	NDD	253.41	250.91	-2.4931
577	1e+13	NDD	238.51	251.85	13.336
634	1e+12	NDD	251.71	250.2	-1.518
635	5e+12	NDD	237.65	248.83	11.176
713	1e+13	NDD	252.29	256.79	4.507
732	0	CORRELATION	231.53	232.41	0.8787
742	0	CORRELATION	252.33	253.69	1.3603
879	0	CORRELATION	247.06	247.9	0.8388
880	0	CORRELATION	237.69	238.81	1.1242

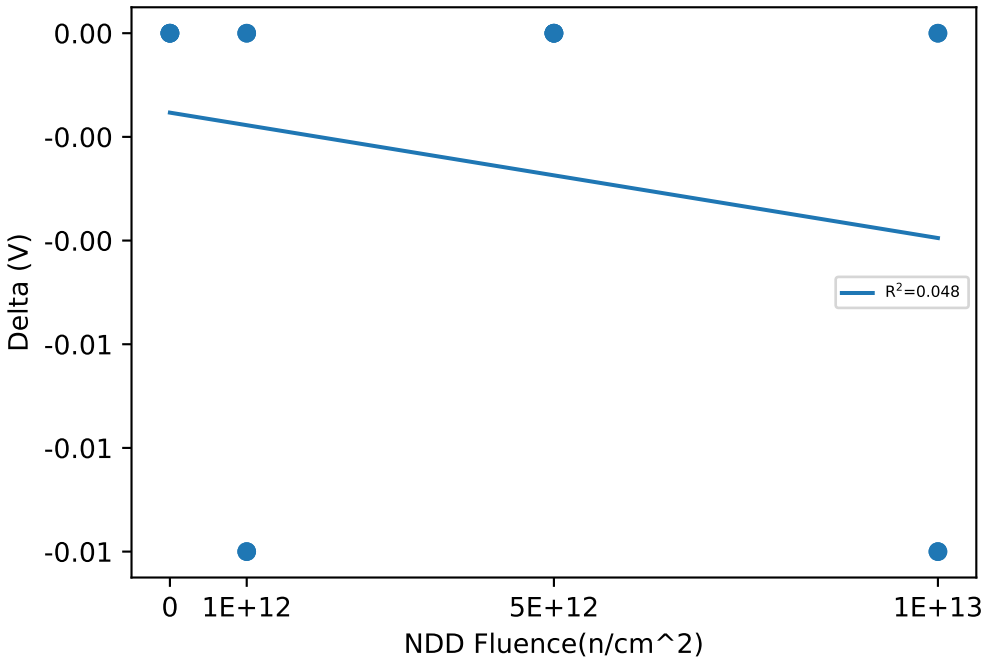
Test Statistics (ns)

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	231.53	242.15	252.33	9.3173	232.41	243.2	253.69	9.4487	0.8388	1.0505	1.3603	0.24203
1e+12	235.93	243.39	251.71	7.5434	237.24	245.49	252.68	7.1944	-1.518	2.104	4.9696	2.8501
5e+12	237.65	245.94	253.46	8.6732	239.27	249.57	259.28	8.2194	-14.185	3.6305	20.024	15.062
1e+13	238.51	246.33	252.29	6.8229	240.86	251.51	256.79	7.4559	-1.8499	5.1846	13.336	6.2338

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



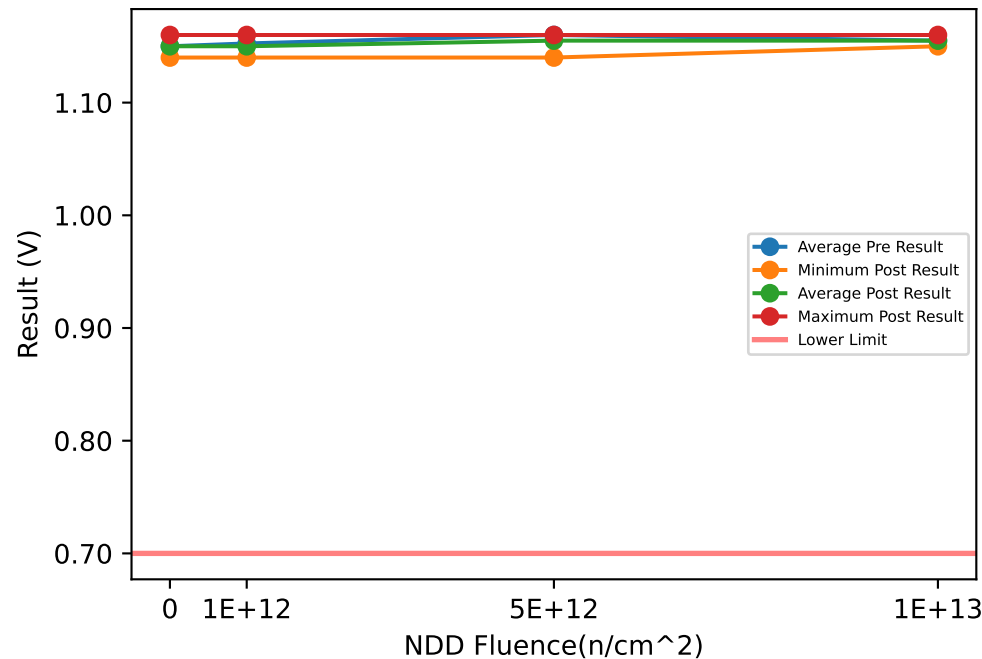
Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.46	1.45	-0.01
229	5e+12	NDD	1.47	1.47	0
260	1e+13	NDD	1.46	1.46	0
301	1e+12	NDD	1.45	1.45	0
362	5e+12	NDD	1.47	1.47	0
365	1e+13	NDD	1.46	1.45	-0.01
439	1e+12	NDD	1.45	1.45	0
514	5e+12	NDD	1.45	1.45	0
577	1e+13	NDD	1.46	1.45	-0.01
634	1e+12	NDD	1.47	1.46	-0.01
635	5e+12	NDD	1.46	1.46	0
713	1e+13	NDD	1.47	1.47	0
732	0	CORRELATION	1.45	1.45	0
742	0	CORRELATION	1.45	1.45	0
879	0	CORRELATION	1.47	1.47	0
880	0	CORRELATION	1.46	1.46	0

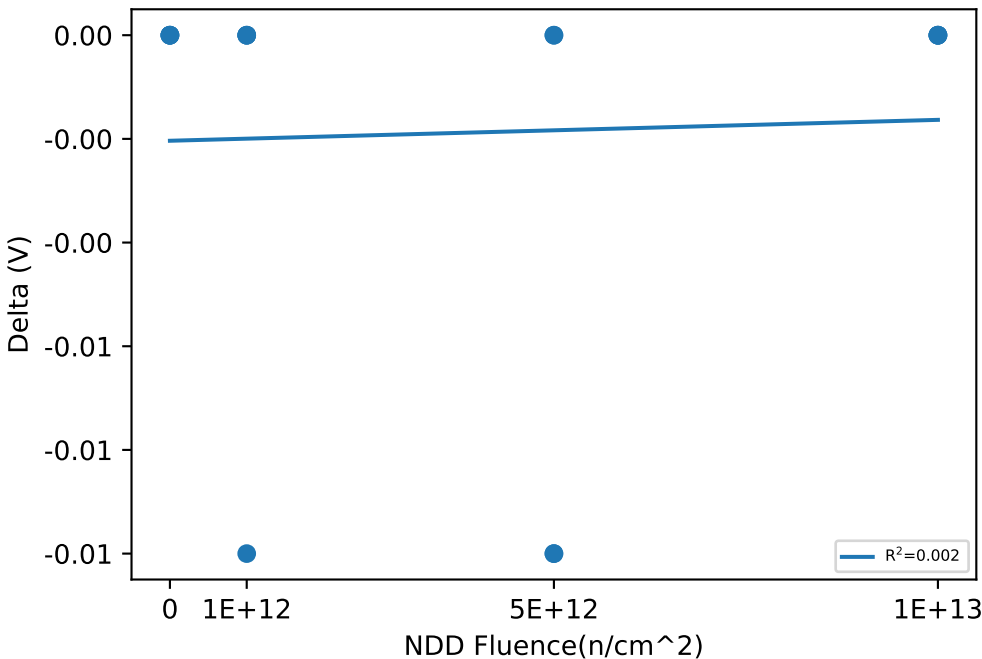
Test Statistics (V)

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	1.45	1.4575	1.47	0.0095743	1.45	1.4575	1.47	0.0095743	0	0	0	0
1e+12	1.45	1.4575	1.47	0.0095743	1.45	1.4525	1.46	0.005	-0.01	-0.005	0	0.0057735
5e+12	1.45	1.4625	1.47	0.0095743	1.45	1.4625	1.47	0.0095743	0	0	0	0
1e+13	1.46	1.4625	1.47	0.005	1.45	1.4575	1.47	0.0095743	-0.01	-0.005	0	0.0057735

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



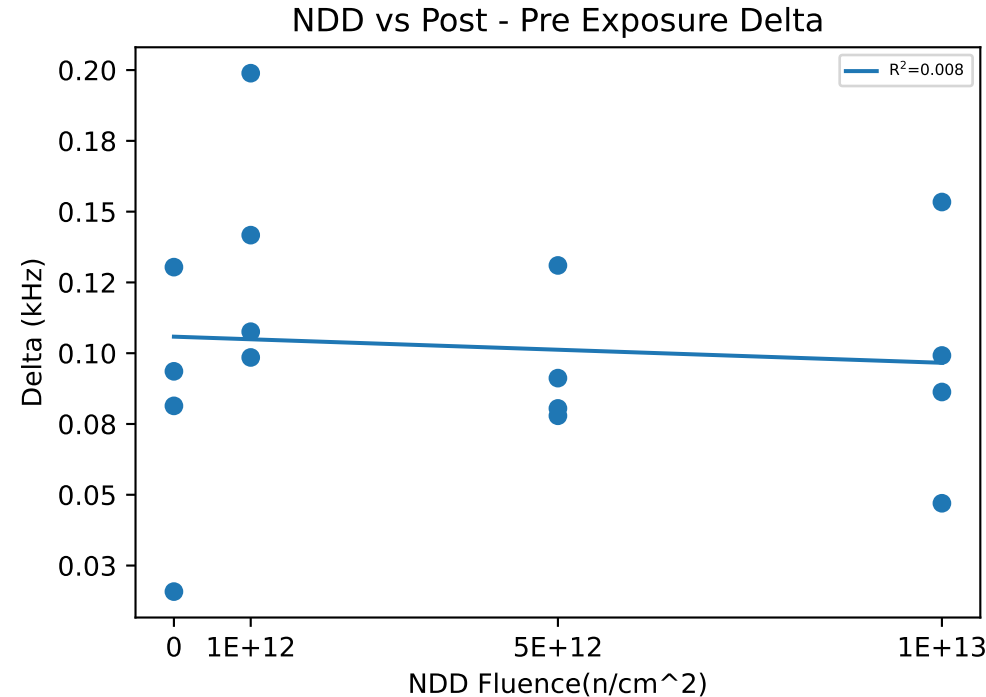
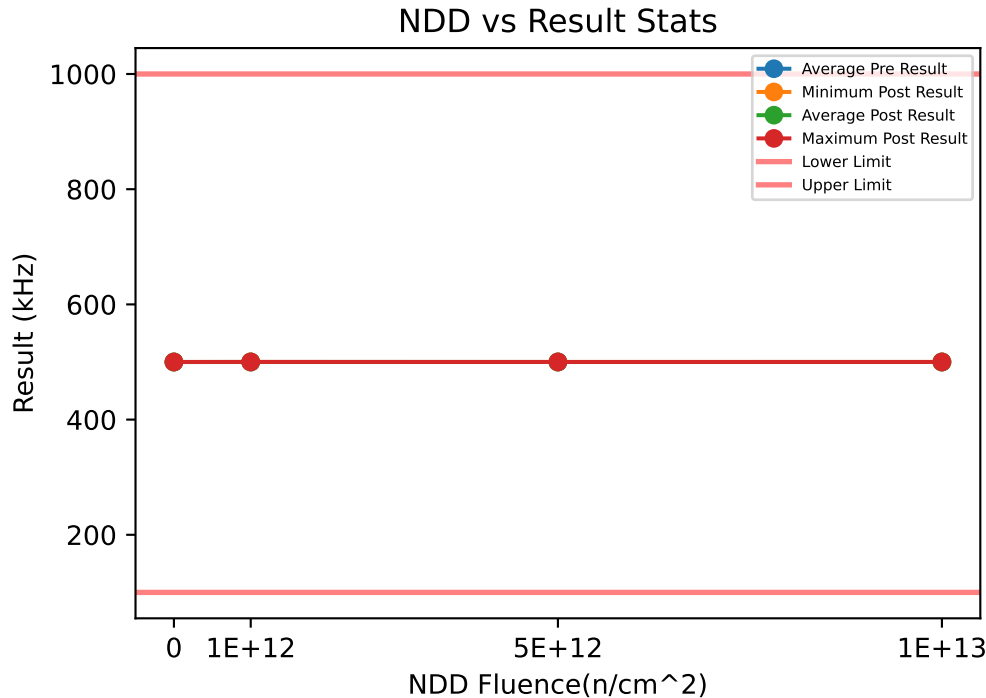
Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.15	1.15	0
229	5e+12	NDD	1.16	1.16	0
260	1e+13	NDD	1.16	1.16	0
301	1e+12	NDD	1.15	1.15	0
362	5e+12	NDD	1.17	1.16	-0.01
365	1e+13	NDD	1.15	1.15	0
439	1e+12	NDD	1.14	1.14	0
514	5e+12	NDD	1.15	1.14	-0.01
577	1e+13	NDD	1.15	1.15	0
634	1e+12	NDD	1.17	1.16	-0.01
635	5e+12	NDD	1.16	1.16	0
713	1e+13	NDD	1.16	1.16	0
732	0	CORRELATION	1.14	1.14	0
742	0	CORRELATION	1.15	1.15	0
879	0	CORRELATION	1.16	1.16	0
880	0	CORRELATION	1.15	1.15	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	1.14	1.15	1.16	0.008165	1.14	1.15	1.16	0.008165	0	0	0	0
1e+12	1.14	1.1525	1.17	0.012583	1.14	1.15	1.16	0.008165	-0.01	-0.0025	0	0.005
5e+12	1.15	1.16	1.17	0.008165	1.14	1.155	1.16	0.01	-0.01	-0.005	0	0.0057735
1e+13	1.15	1.155	1.16	0.0057735	1.15	1.155	1.16	0.0057735	0	0	0	0

Device Test: 24.140 FREQ|500kHz/SYNC1/14//OPEN//@SYNC_FREQ_RANGE

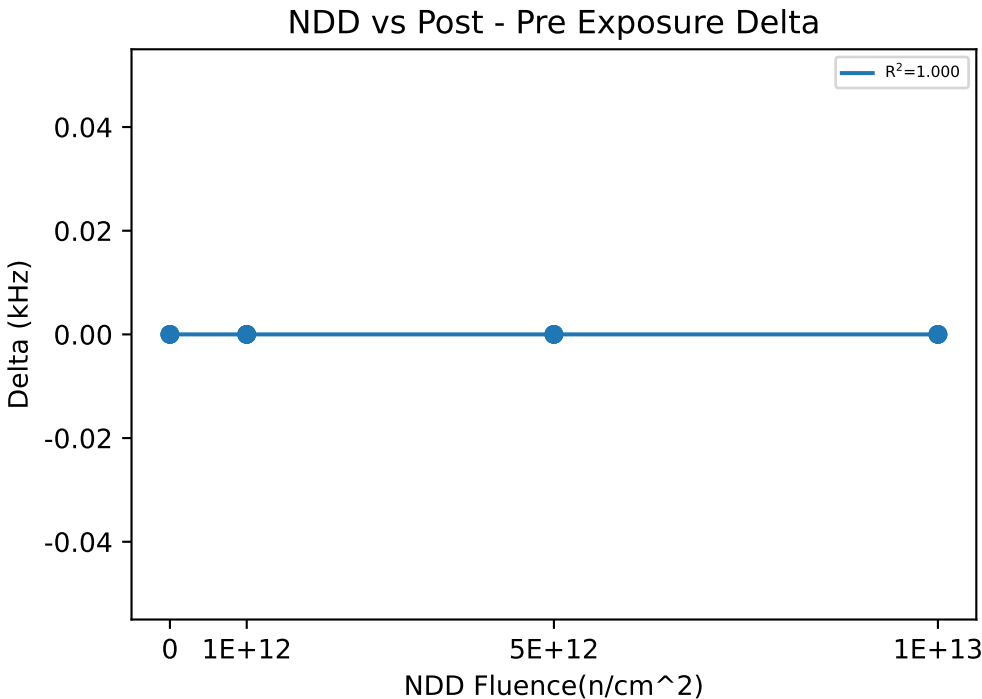
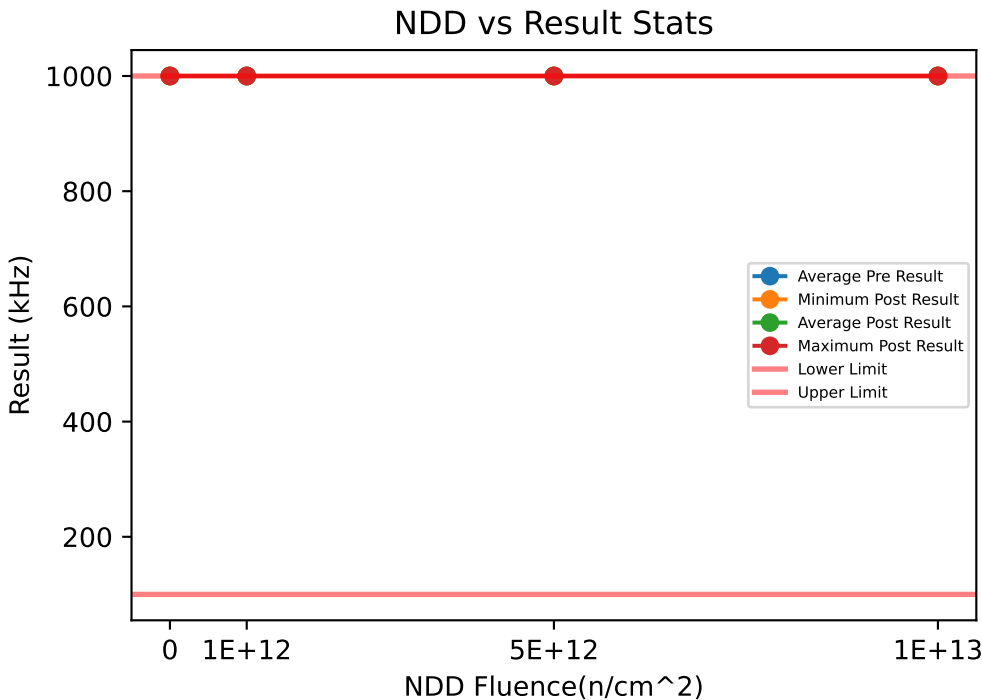


Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	499.93	500.13	0.1989
229	5e+12	NDD	499.95	500.02	0.0779
260	1e+13	NDD	499.98	500.03	0.047
301	1e+12	NDD	499.94	500.08	0.1417
362	5e+12	NDD	499.94	500.07	0.131
365	1e+13	NDD	499.93	500.08	0.1534
439	1e+12	NDD	499.95	500.05	0.0985
514	5e+12	NDD	499.95	500.04	0.0912
577	1e+13	NDD	499.94	500.04	0.0992
634	1e+12	NDD	499.95	500.06	0.1076
635	5e+12	NDD	499.98	500.06	0.0805
713	1e+13	NDD	499.95	500.04	0.0863
732	0	CORRELATION	499.93	500.03	0.0936
742	0	CORRELATION	499.95	500.08	0.1304
879	0	CORRELATION	499.97	500.05	0.0814
880	0	CORRELATION	499.92	499.93	0.0158

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	499.92	499.94	499.97	0.021673	499.93	500.02	500.08	0.063564	0.0158	0.0803	0.1304	0.047779
1e+12	499.93	499.94	499.95	0.011001	500.05	500.08	500.13	0.034618	0.0985	0.13667	0.1989	0.04546
5e+12	499.94	499.95	499.98	0.014925	500.02	500.05	500.07	0.021726	0.0779	0.09515	0.131	0.024583
1e+13	499.93	499.95	499.98	0.020486	500.03	500.05	500.08	0.02569	0.047	0.096475	0.1534	0.043967



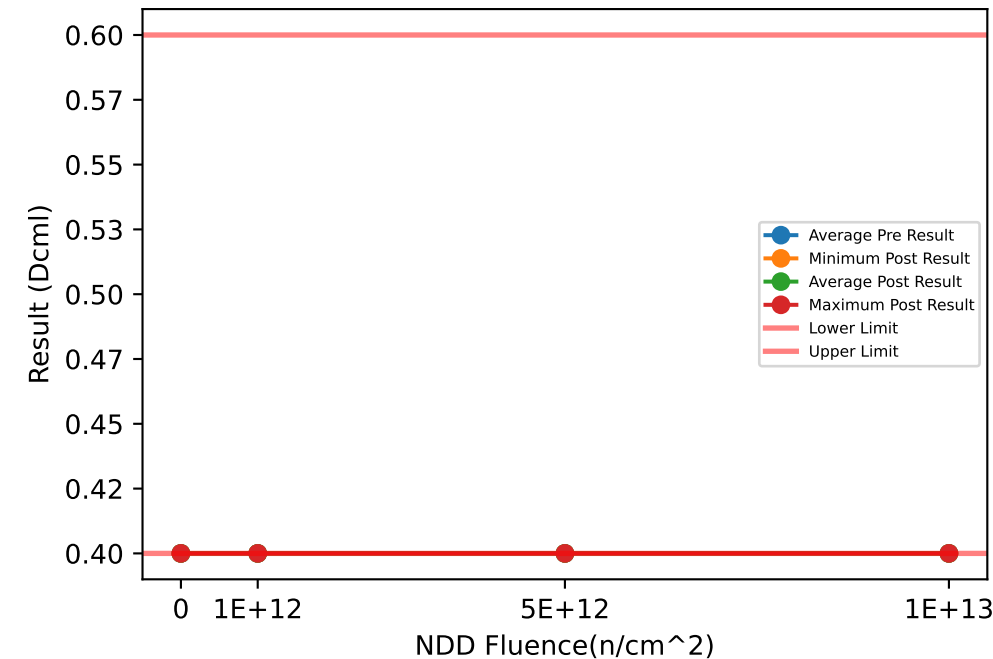
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1000	1000	0
229	5e+12	NDD	1000	1000	0
260	1e+13	NDD	1000	1000	0
301	1e+12	NDD	1000	1000	0
362	5e+12	NDD	1000	1000	0
365	1e+13	NDD	1000	1000	0
439	1e+12	NDD	1000	1000	0
514	5e+12	NDD	1000	1000	0
577	1e+13	NDD	1000	1000	0
634	1e+12	NDD	1000	1000	0
635	5e+12	NDD	1000	1000	0
713	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

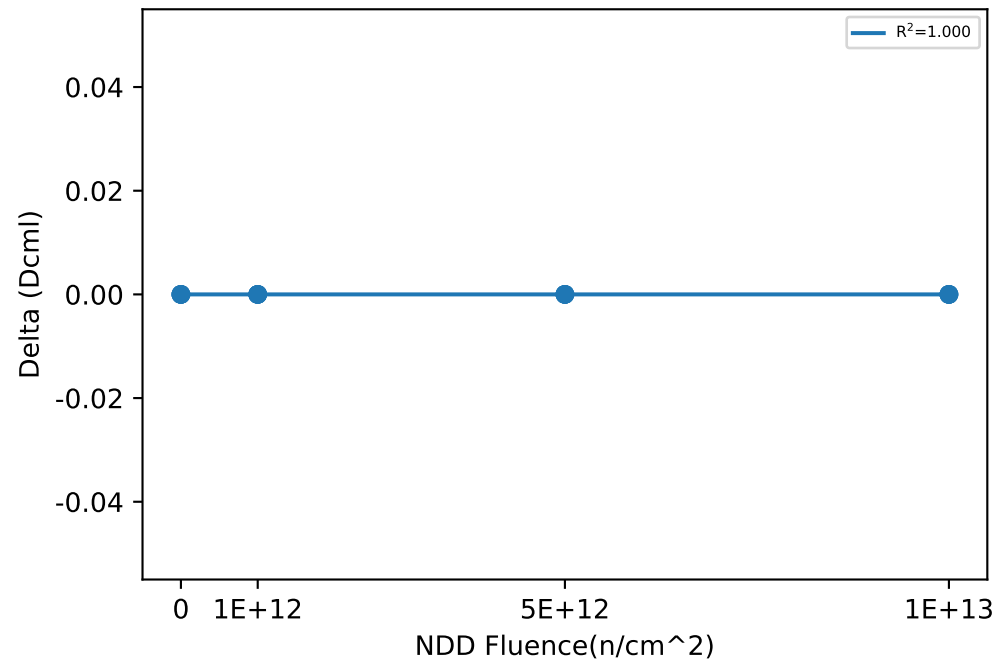
Test Statistics (kHz)

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



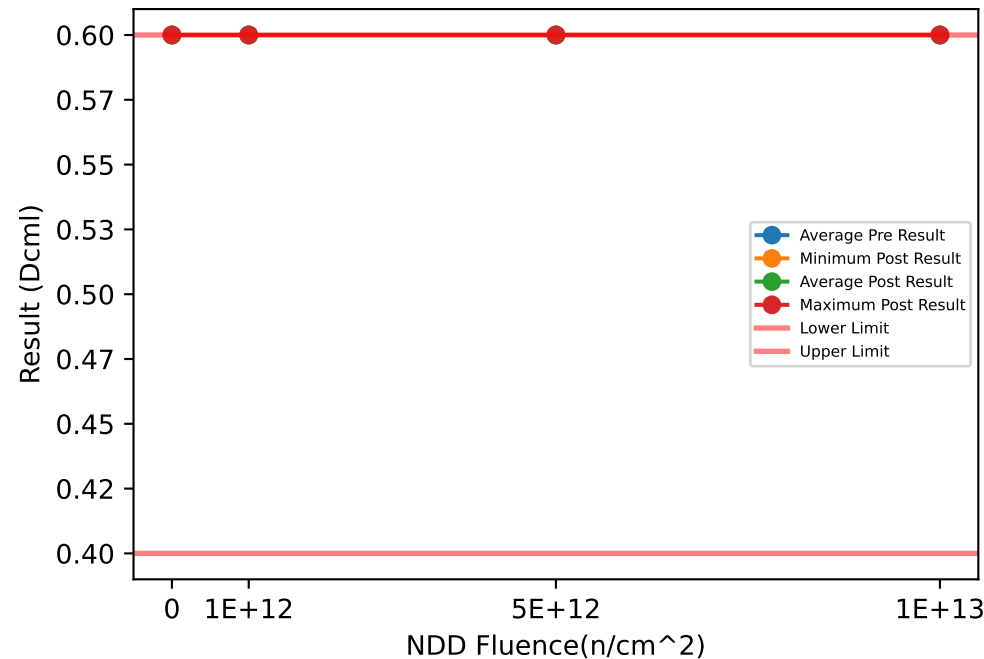
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4	0.4	0
229	5e+12	NDD	0.4	0.4	0
260	1e+13	NDD	0.4	0.4	0
301	1e+12	NDD	0.4	0.4	0
362	5e+12	NDD	0.4	0.4	0
365	1e+13	NDD	0.4	0.4	0
439	1e+12	NDD	0.4	0.4	0
514	5e+12	NDD	0.4	0.4	0
577	1e+13	NDD	0.4	0.4	0
634	1e+12	NDD	0.4	0.4	0
635	5e+12	NDD	0.4	0.4	0
713	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

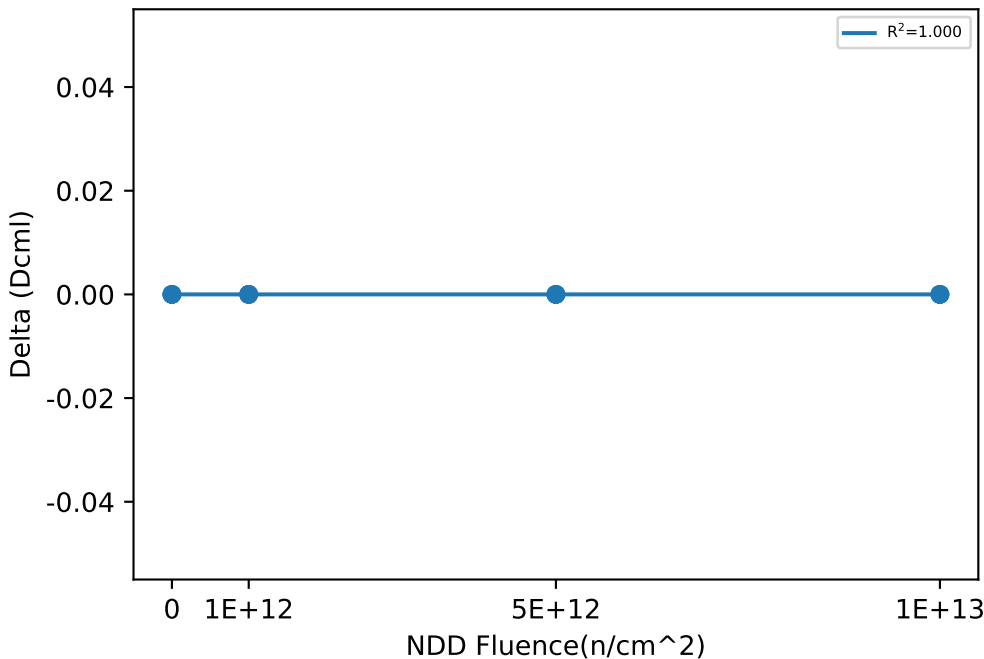
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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



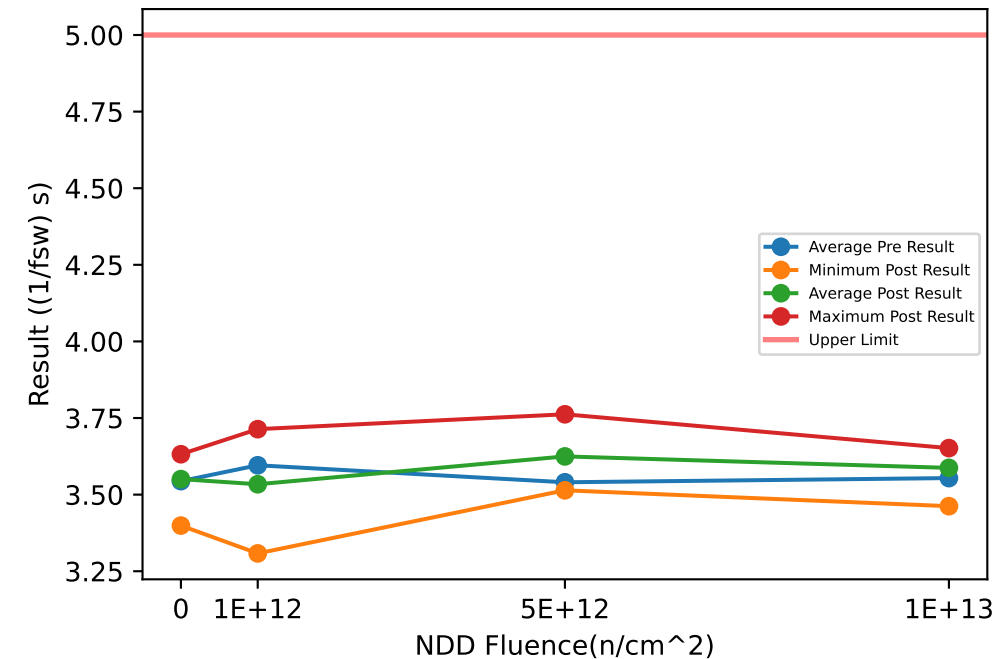
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.6	0.6	0
229	5e+12	NDD	0.6	0.6	0
260	1e+13	NDD	0.6	0.6	0
301	1e+12	NDD	0.6	0.6	0
362	5e+12	NDD	0.6	0.6	0
365	1e+13	NDD	0.6	0.6	0
439	1e+12	NDD	0.6	0.6	0
514	5e+12	NDD	0.6	0.6	0
577	1e+13	NDD	0.6	0.6	0
634	1e+12	NDD	0.6	0.6	0
635	5e+12	NDD	0.6	0.6	0
713	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

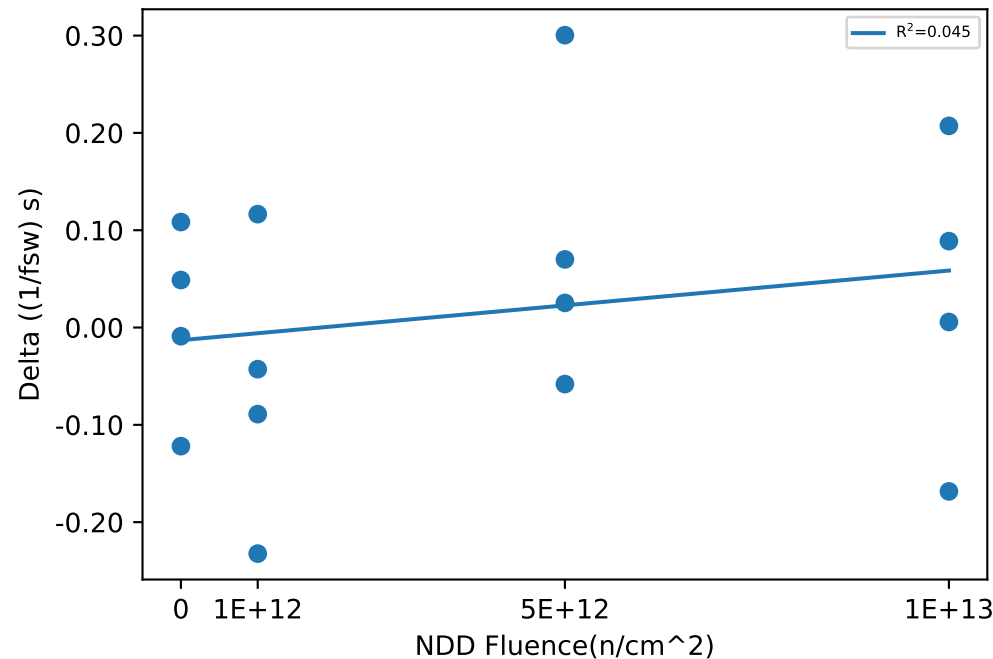
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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



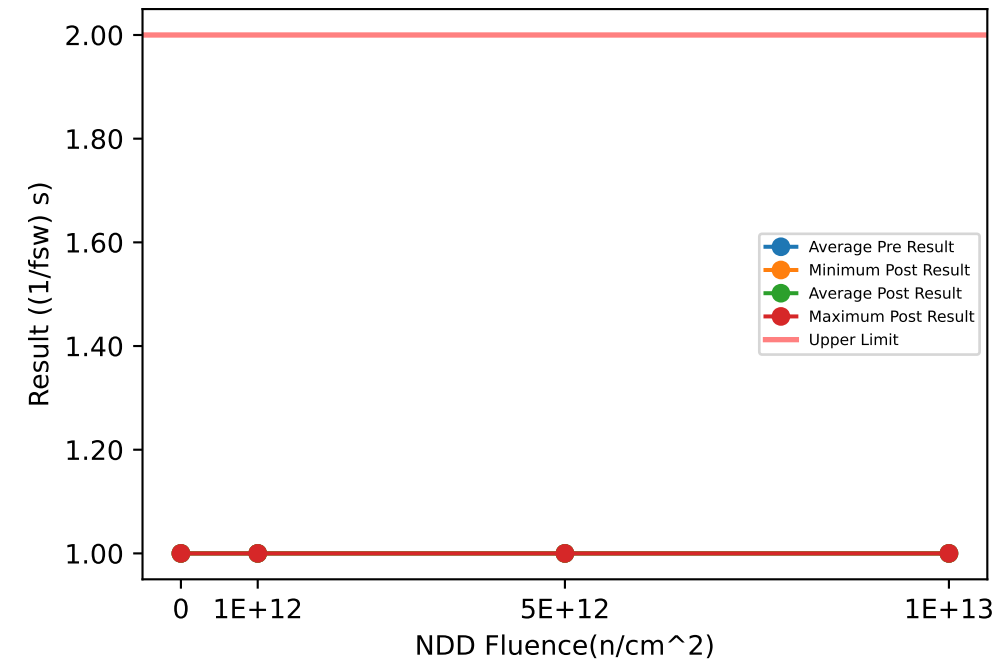
Test Results (Upper Limit = 5.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.5885	3.5457	-0.0428
229	5e+12	NDD	3.6651	3.607	-0.0581
260	1e+13	NDD	3.6307	3.4623	-0.1684
301	1e+12	NDD	3.5405	3.3082	-0.2323
362	5e+12	NDD	3.4618	3.7622	0.3004
365	1e+13	NDD	3.4446	3.6518	0.2072
439	1e+12	NDD	3.6569	3.5679	-0.089
514	5e+12	NDD	3.4888	3.5141	0.0253
577	1e+13	NDD	3.5485	3.6373	0.0888
634	1e+12	NDD	3.5972	3.7137	0.1165
635	5e+12	NDD	3.5455	3.6155	0.07
713	1e+13	NDD	3.5921	3.5978	0.0057
732	0	CORRELATION	3.4792	3.5876	0.1084
742	0	CORRELATION	3.583	3.6318	0.0488
879	0	CORRELATION	3.5929	3.584	-0.0089
880	0	CORRELATION	3.5209	3.399	-0.1219

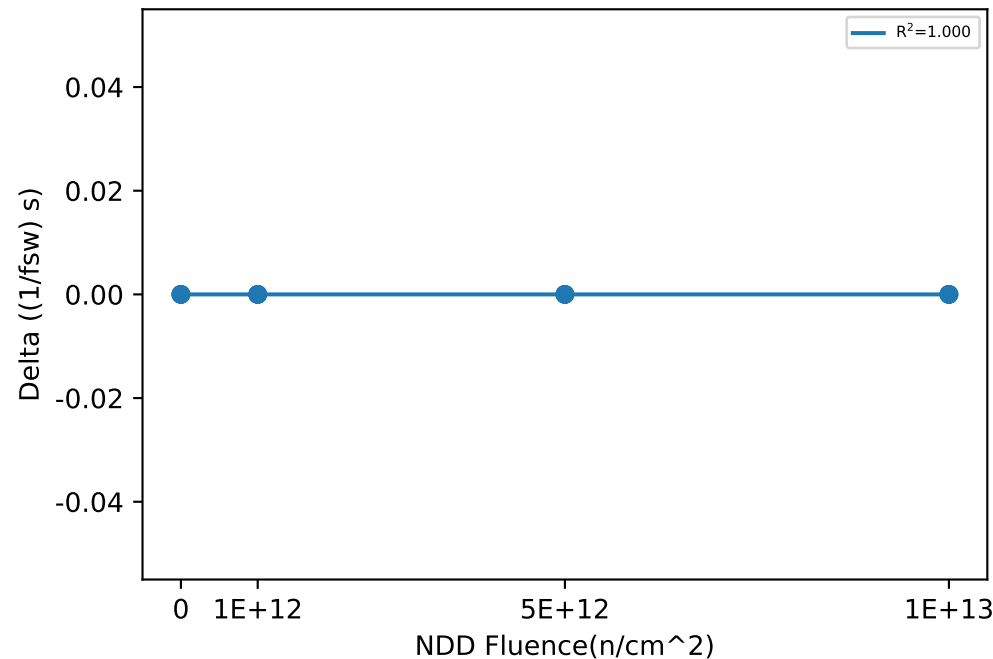
Test Statistics ((1/fsw) s)

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	3.4792	3.544	3.5929	0.053681	3.399	3.5506	3.6318	0.10338	-0.1219	0.0066	0.1084	0.098144
1e+12	3.5405	3.5958	3.6569	0.047772	3.3082	3.5339	3.7137	0.16789	-0.2323	-0.0619	0.1165	0.14371
5e+12	3.4618	3.5403	3.6651	0.090216	3.5141	3.6247	3.7622	0.10253	-0.0581	0.0844	0.3004	0.15347
1e+13	3.4446	3.554	3.6307	0.080277	3.4623	3.5873	3.6518	0.086401	-0.1684	0.033325	0.2072	0.15787

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta

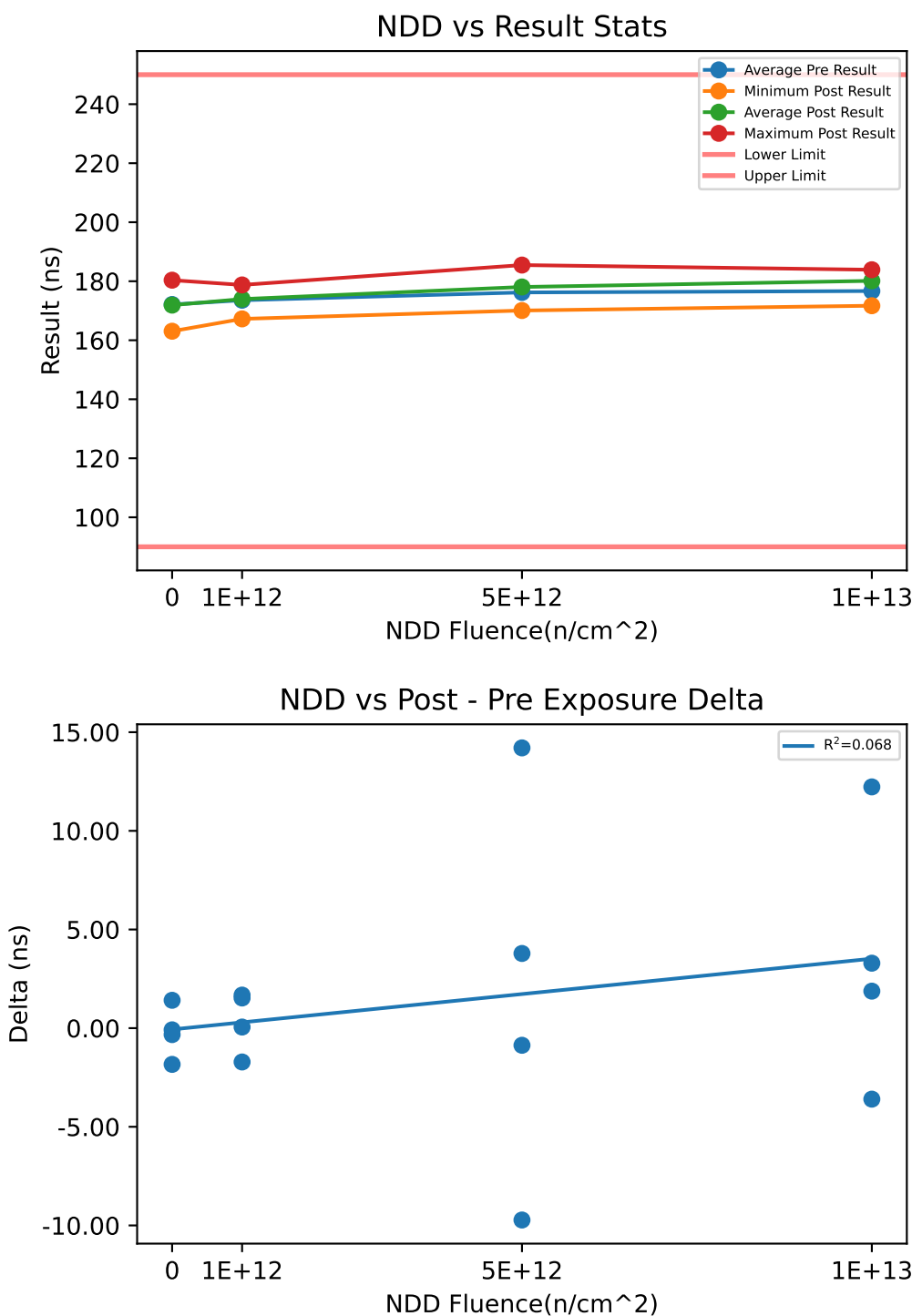


Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1	1	0
229	5e+12	NDD	1	1	0
260	1e+13	NDD	1	1	0
301	1e+12	NDD	1	1	0
362	5e+12	NDD	1	1	0
365	1e+13	NDD	1	1	0
439	1e+12	NDD	1	1	0
514	5e+12	NDD	1	1	0
577	1e+13	NDD	1	1	0
634	1e+12	NDD	1	1	0
635	5e+12	NDD	1	1	0
713	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	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



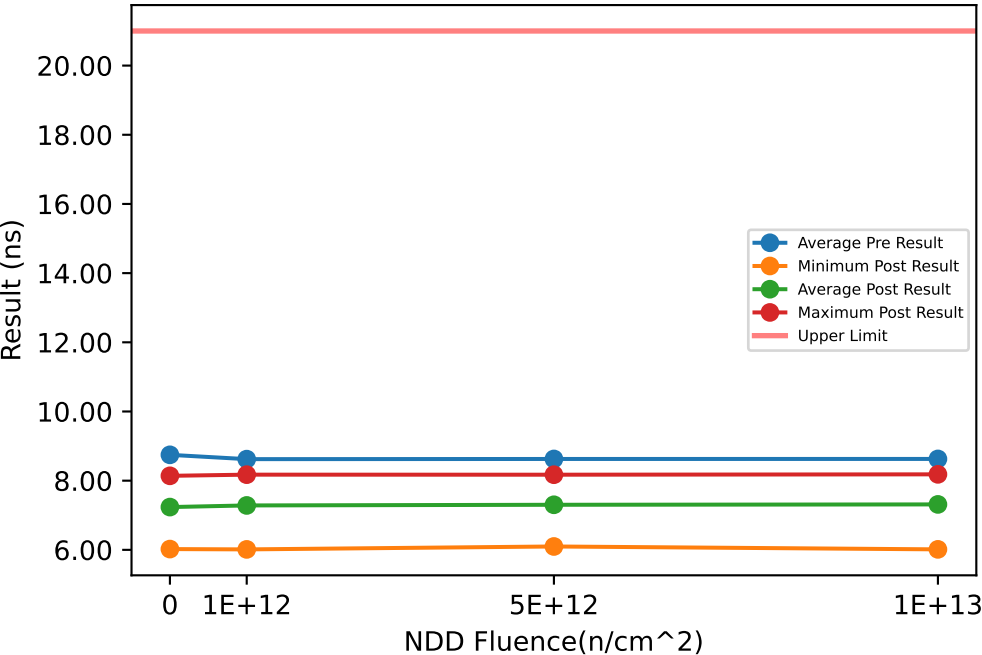
Test Results (Lower Limit = 90.0, Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	167.18	167.24	0.0553
229	5e+12	NDD	179.8	170.07	-9.7251
260	1e+13	NDD	175.3	171.7	-3.5995
301	1e+12	NDD	177.07	178.74	1.6749
362	5e+12	NDD	171.27	185.48	14.204
365	1e+13	NDD	178.84	182.13	3.2921
439	1e+12	NDD	171.25	172.77	1.5282
514	5e+12	NDD	182.26	181.39	-0.8688
577	1e+13	NDD	170.57	182.8	12.228
634	1e+12	NDD	178.76	177.05	-1.7154
635	5e+12	NDD	171.47	175.26	3.7845
713	1e+13	NDD	182.02	183.89	1.875
732	0	CORRELATION	163.39	163.06	-0.3278
742	0	CORRELATION	178.95	180.36	1.4114
879	0	CORRELATION	176.84	175	-1.8371
880	0	CORRELATION	169.28	169.2	-0.0862

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	163.39	172.11	178.95	7.1453	163.06	171.9	180.36	7.4521	-1.8371	-0.20992	1.4114	1.3299
1e+12	167.18	173.57	178.76	5.3356	167.24	173.95	178.74	5.1318	-1.7154	0.38575	1.6749	1.5802
5e+12	171.27	176.2	182.26	5.6663	170.07	178.05	185.48	6.7771	-9.7251	1.8488	14.204	9.9624
1e+13	170.57	176.68	182.02	4.9119	171.7	180.13	183.89	5.6677	-3.5995	3.4488	12.228	6.5637

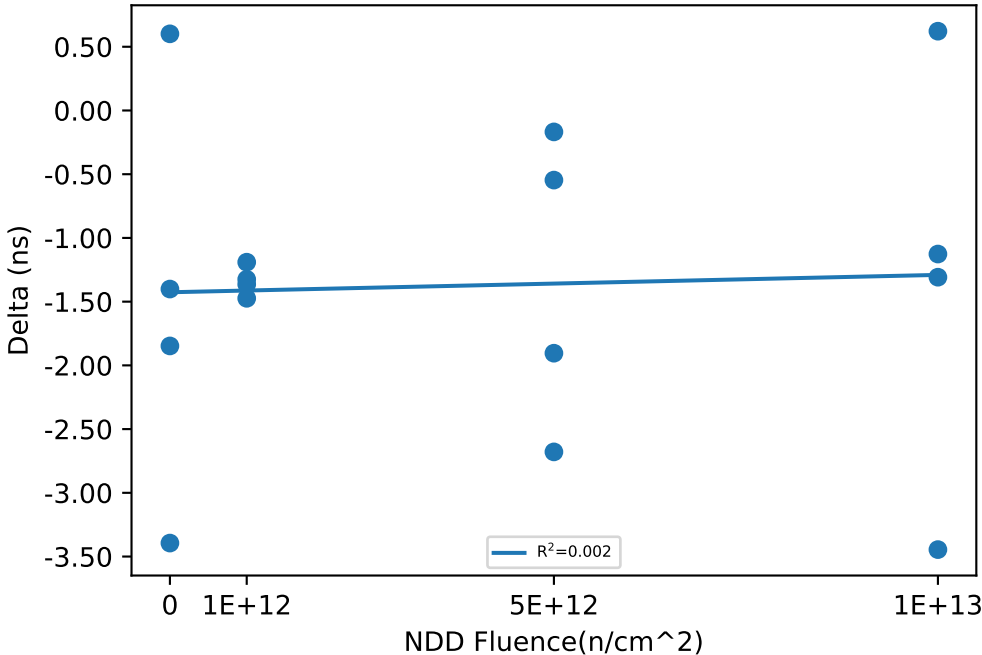
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.76	7.396	-1.364
229	5e+12	NDD	7.5637	7.3956	-0.1681
260	1e+13	NDD	8.7404	7.4323	-1.3081
301	1e+12	NDD	9.4986	8.1738	-1.3248
362	5e+12	NDD	8.7186	8.1724	-0.5462
365	1e+13	NDD	7.5609	8.183	0.6221
439	1e+12	NDD	8.7437	7.5533	-1.1904
514	5e+12	NDD	9.4511	7.5466	-1.9045
577	1e+13	NDD	8.7521	7.6257	-1.1264
634	1e+12	NDD	7.4869	6.0131	-1.4738
635	5e+12	NDD	8.7764	6.0975	-2.6789
713	1e+13	NDD	9.4596	6.0141	-3.4455
732	0	CORRELATION	8.7663	7.3652	-1.4011
742	0	CORRELATION	7.5387	8.1401	0.6014
879	0	CORRELATION	9.4167	6.0224	-3.3943
880	0	CORRELATION	9.2663	7.4188	-1.8475

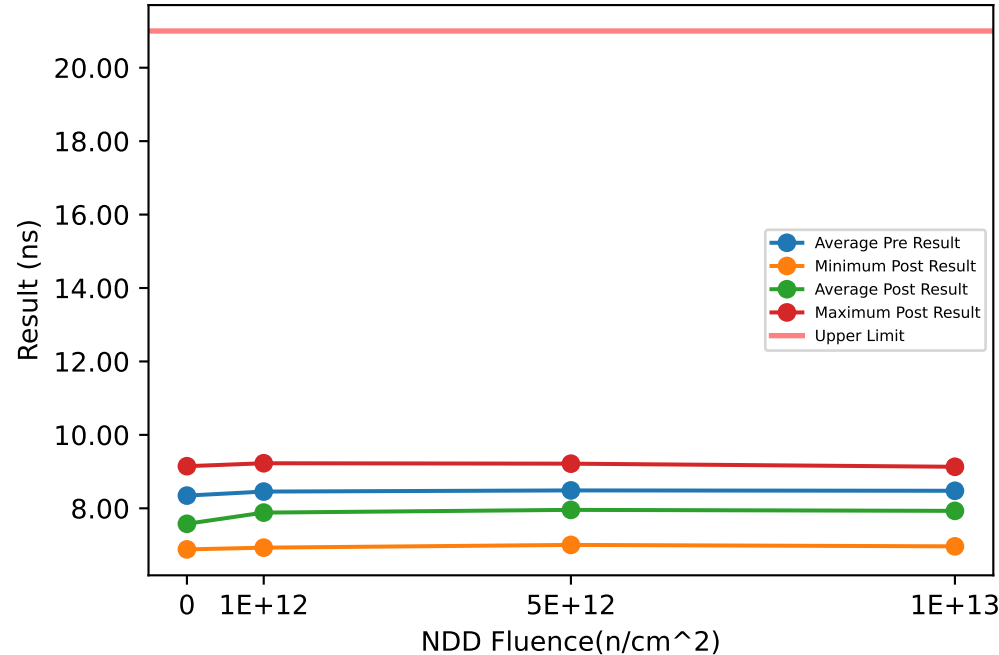
NDD vs Post - Pre Exposure Delta



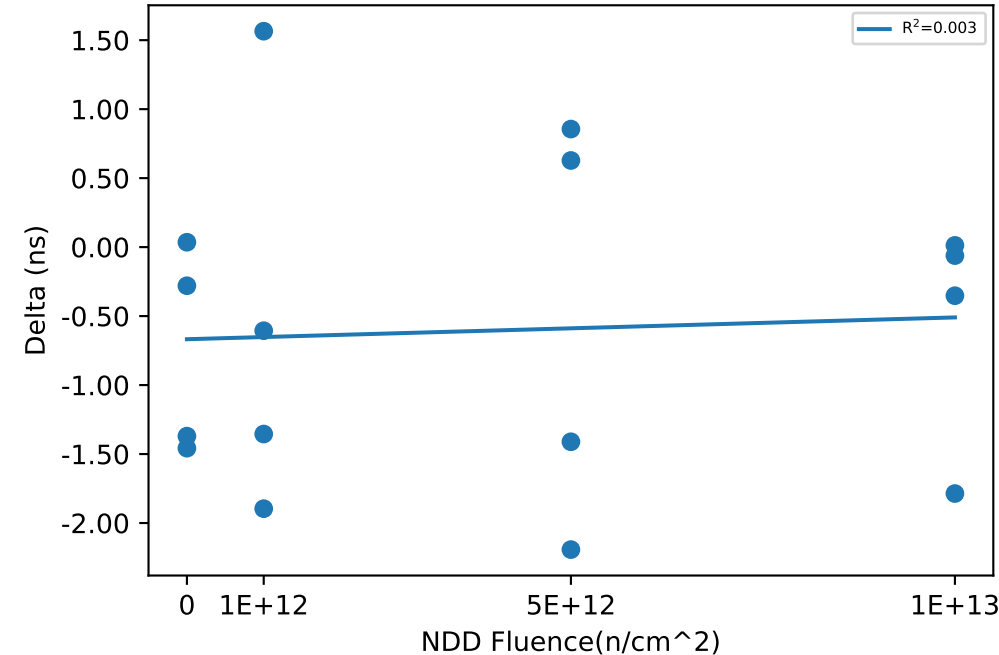
Test Statistics (ns)

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	7.5387	8.747	9.4167	0.85216	6.0224	7.2366	8.1401	0.88324	-3.3943	-1.5104	0.6014	1.6466
1e+12	7.4869	8.6223	9.4986	0.83481	6.0131	7.2841	8.1738	0.91141	-1.4738	-1.3383	-1.1904	0.11701
5e+12	7.5637	8.6274	9.4511	0.78325	6.0975	7.303	8.1724	0.87121	-2.6789	-1.3244	-0.1681	1.171
1e+13	7.5609	8.6282	9.4596	0.78704	6.0141	7.3138	8.183	0.92305	-3.4455	-1.3145	0.6221	1.666

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



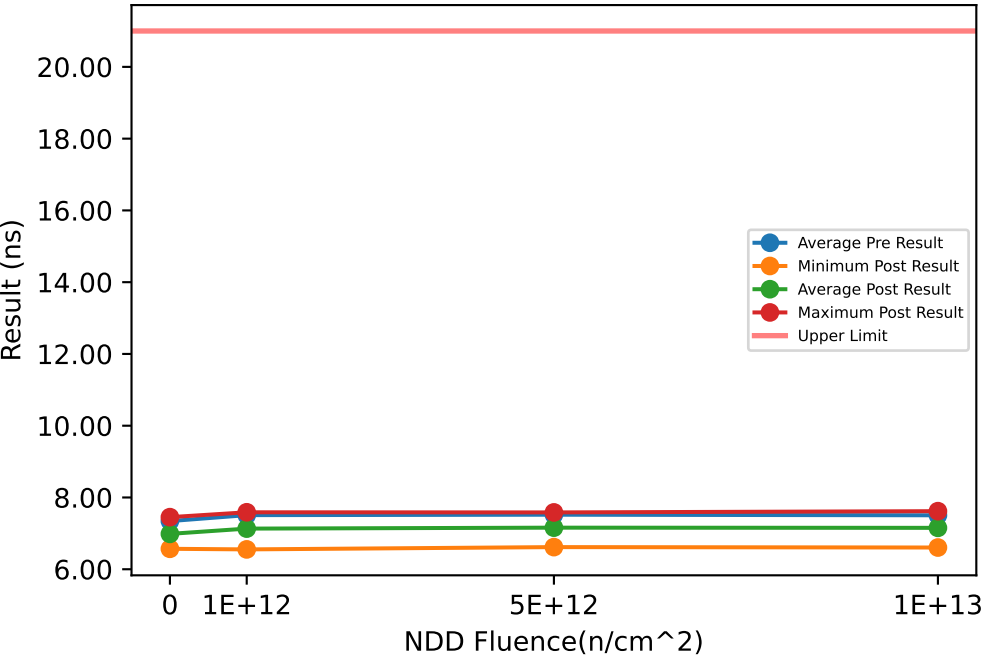
Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.2833	6.9284	-1.3549
229	5e+12	NDD	9.1956	7.003	-2.1926
260	1e+13	NDD	8.7503	6.964	-1.7863
301	1e+12	NDD	7.6623	9.2273	1.565
362	5e+12	NDD	8.3602	9.2158	0.8556
365	1e+13	NDD	9.1188	9.1313	0.0125
439	1e+12	NDD	8.7386	8.1326	-0.606
514	5e+12	NDD	7.6086	8.2366	0.628
577	1e+13	NDD	8.4072	8.3456	-0.0616
634	1e+12	NDD	9.1395	7.2435	-1.896
635	5e+12	NDD	8.7853	7.3743	-1.411
713	1e+13	NDD	7.6337	7.2814	-0.3523
732	0	CORRELATION	8.3207	6.9505	-1.3702
742	0	CORRELATION	9.1117	9.1469	0.0352
879	0	CORRELATION	7.6146	7.3346	-0.28
880	0	CORRELATION	8.3384	6.881	-1.4574

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	7.6146	8.3464	9.1117	0.61154	6.881	7.5783	9.1469	1.0646	-1.4574	-0.7681	0.0352	0.75745
1e+12	7.6623	8.4559	9.1395	0.63425	6.9284	7.883	9.2273	1.0311	-1.896	-0.57298	1.565	1.5203
5e+12	7.6086	8.4874	9.1956	0.67793	7.003	7.9574	9.2158	0.98529	-2.1926	-0.53	0.8556	1.5057
1e+13	7.6337	8.4775	9.1188	0.63315	6.964	7.9306	9.1313	0.99493	-1.7863	-0.54693	0.0125	0.84112

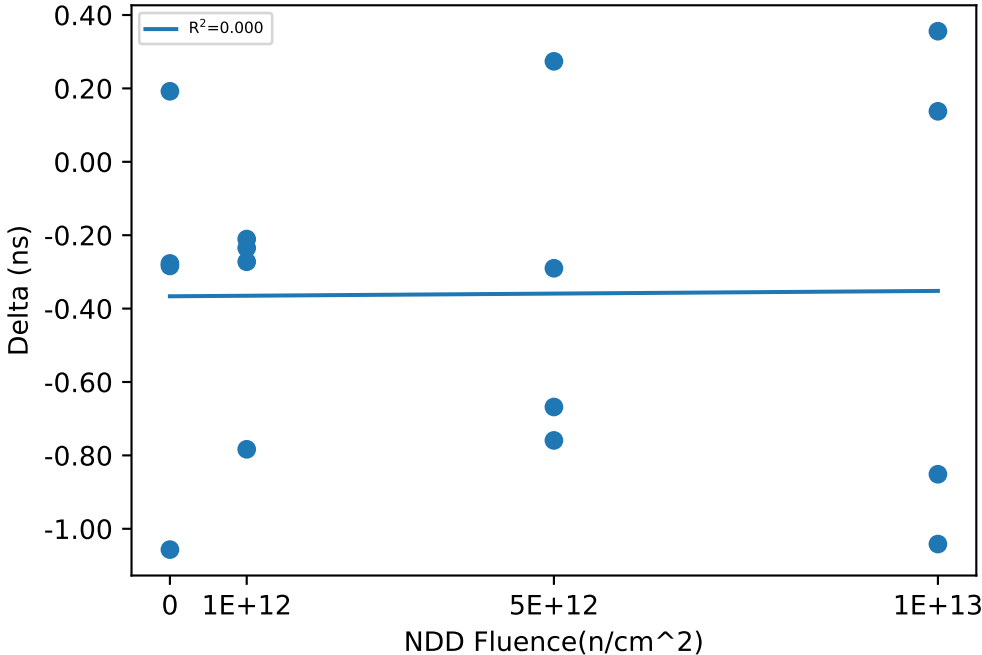
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.2337	6.9989	-0.2348
229	5e+12	NDD	7.6697	6.9105	-0.7592
260	1e+13	NDD	7.8267	6.9753	-0.8514
301	1e+12	NDD	7.3365	6.5531	-0.7834
362	5e+12	NDD	7.2851	6.617	-0.6681
365	1e+13	NDD	7.6471	6.6055	-1.0416
439	1e+12	NDD	7.7978	7.5873	-0.2105
514	5e+12	NDD	7.3099	7.5837	0.2738
577	1e+13	NDD	7.2624	7.6183	0.3559
634	1e+12	NDD	7.6627	7.3903	-0.2724
635	5e+12	NDD	7.8147	7.5246	-0.2901
713	1e+13	NDD	7.2778	7.4154	0.1376
732	0	CORRELATION	7.2634	6.9865	-0.2769
742	0	CORRELATION	7.6267	6.57	-1.0567
879	0	CORRELATION	7.2594	7.4516	0.1922
880	0	CORRELATION	7.2185	6.9347	-0.2838

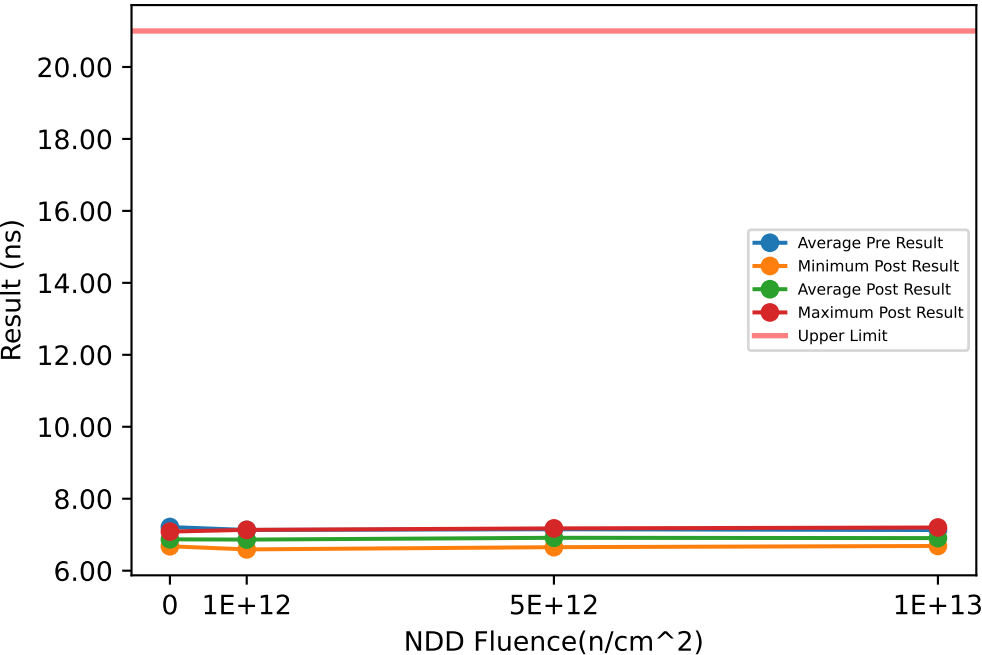
NDD vs Post - Pre Exposure Delta



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	7.2185	7.342	7.6267	0.19088	6.57	6.9857	7.4516	0.3617	-1.0567	-0.3563	0.1922	0.51736
1e+12	7.2337	7.5077	7.7978	0.26619	6.5531	7.1324	7.5873	0.45711	-0.7834	-0.37528	-0.2105	0.27327
5e+12	7.2851	7.5198	7.8147	0.26368	6.617	7.1589	7.5837	0.47242	-0.7592	-0.3609	0.2738	0.46935
1e+13	7.2624	7.5035	7.8267	0.27937	6.6055	7.1536	7.6183	0.45339	-1.0416	-0.34988	0.3559	0.69899

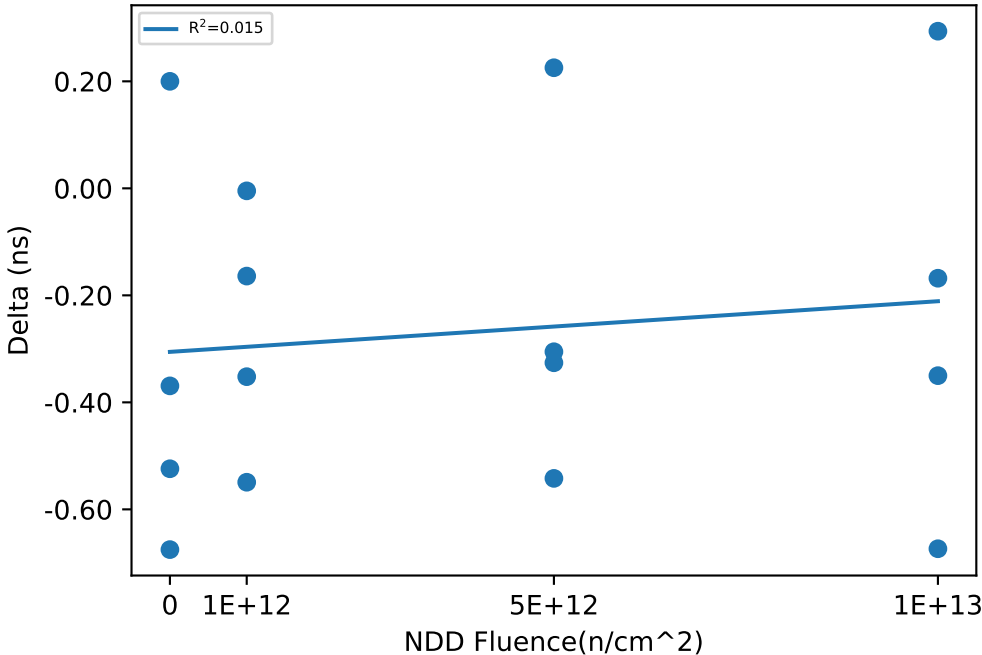
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.3216	6.7723	-0.5493
229	5e+12	NDD	7.3348	6.7927	-0.5421
260	1e+13	NDD	6.9285	6.7605	-0.168
301	1e+12	NDD	6.9629	6.9582	-0.0047
362	5e+12	NDD	7.3606	7.0346	-0.326
365	1e+13	NDD	7.3241	6.974	-0.3501
439	1e+12	NDD	6.9437	6.5917	-0.352
514	5e+12	NDD	6.9588	6.6534	-0.3054
577	1e+13	NDD	7.3607	6.6871	-0.6736
634	1e+12	NDD	7.2988	7.1348	-0.164
635	5e+12	NDD	6.9504	7.1758	0.2254
713	1e+13	NDD	6.9065	7.2002	0.2937
732	0	CORRELATION	7.3536	6.6784	-0.6752
742	0	CORRELATION	7.3063	6.9371	-0.3692
879	0	CORRELATION	6.8864	7.0864	0.2
880	0	CORRELATION	7.3085	6.7844	-0.5241

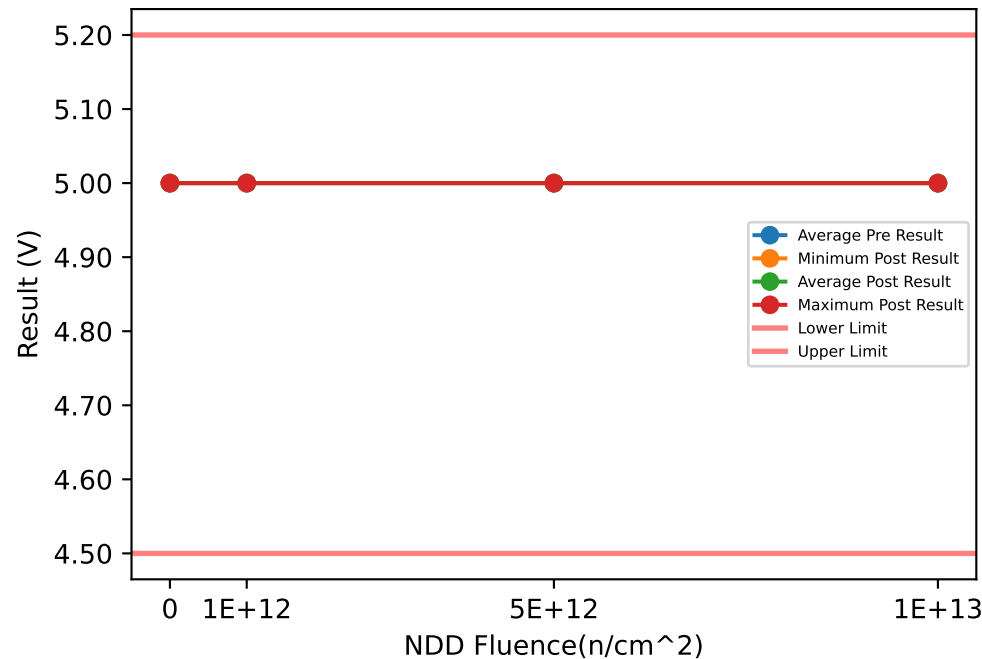
NDD vs Post - Pre Exposure Delta



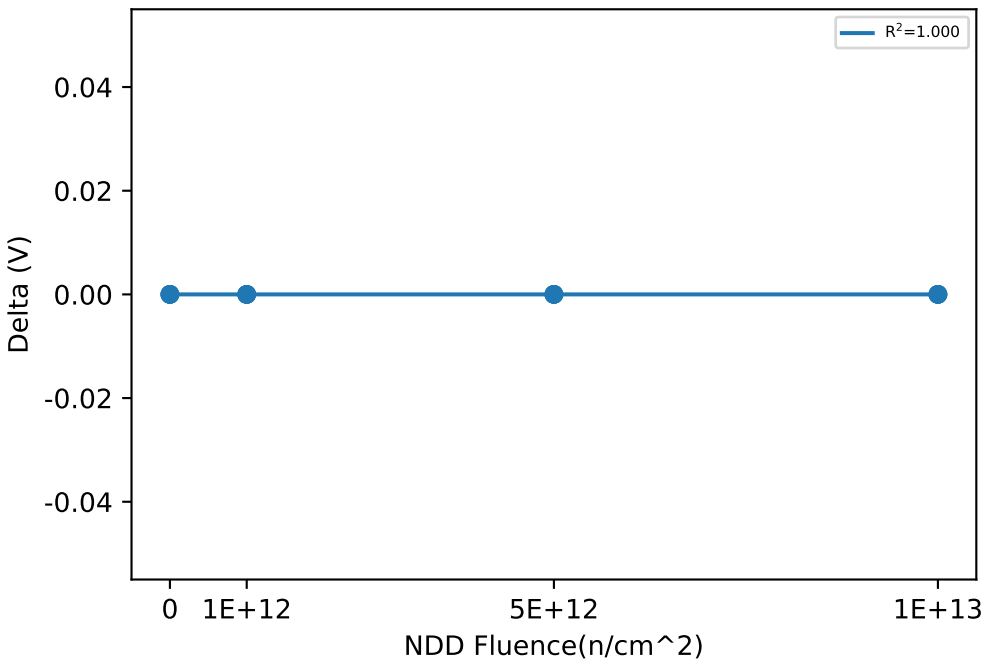
Test Statistics (ns)

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	6.8864	7.2137	7.3536	0.21929	6.6784	6.8716	7.0864	0.17829	-0.6752	-0.34213	0.2	0.3824
1e+12	6.9437	7.1318	7.3216	0.20642	6.5917	6.8643	7.1348	0.23435	-0.5493	-0.2675	-0.0047	0.23546
5e+12	6.9504	7.1512	7.3606	0.22723	6.6534	6.9141	7.1758	0.23502	-0.5421	-0.23703	0.2254	0.32634
1e+13	6.9065	7.13	7.3607	0.24593	6.6871	6.9055	7.2002	0.23113	-0.6736	-0.2245	0.2937	0.40381

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



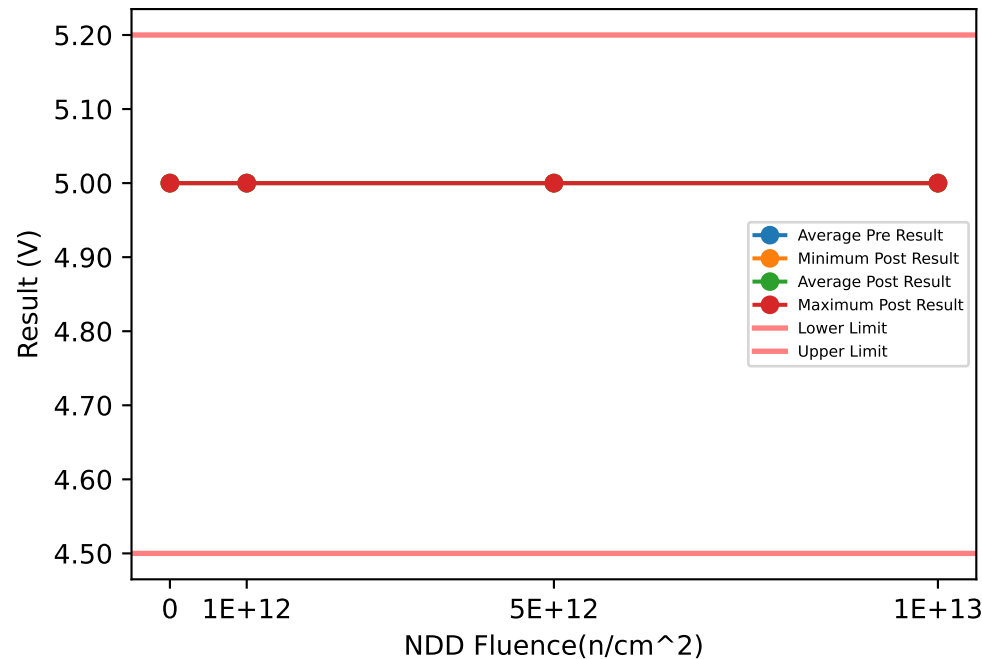
Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5	5	0
229	5e+12	NDD	5	5	0
260	1e+13	NDD	5	5	0
301	1e+12	NDD	5	5	0
362	5e+12	NDD	5	5	0
365	1e+13	NDD	5	5	0
439	1e+12	NDD	5	5	0
514	5e+12	NDD	5	5	0
577	1e+13	NDD	5	5	0
634	1e+12	NDD	5	5	0
635	5e+12	NDD	5	5	0
713	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

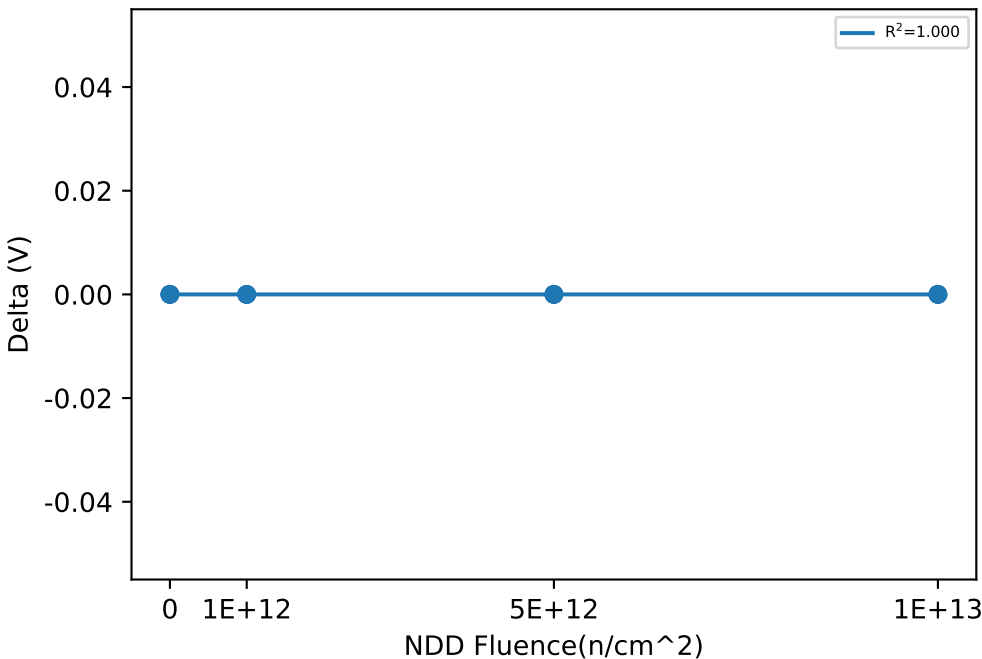
Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



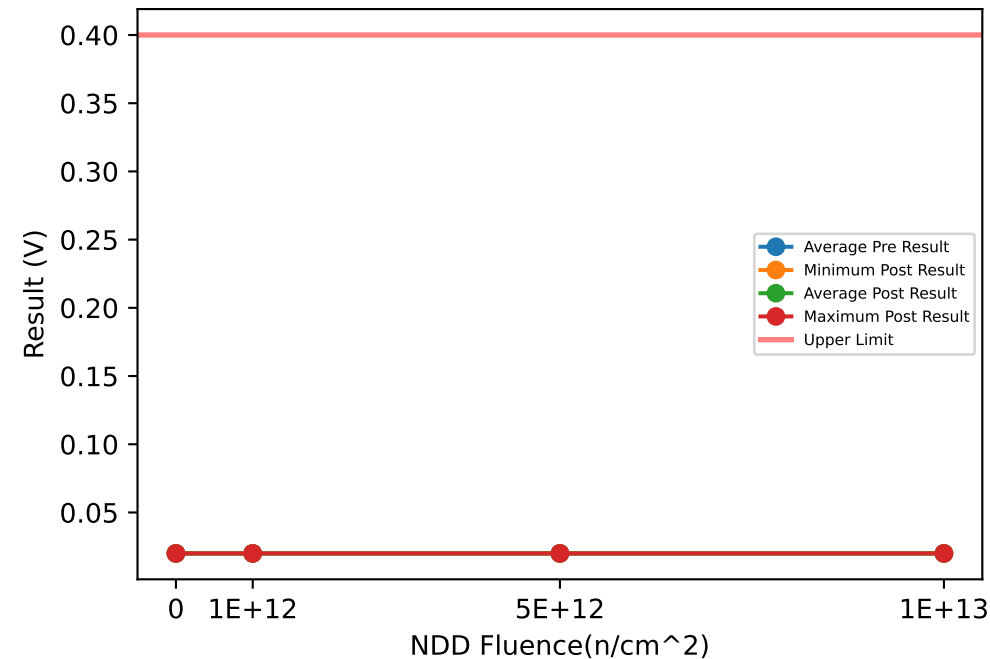
Test Results (Lower Limit = 4.5, Upper Limit = 5.2 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	5	5	0
229	5e+12	NDD	5	5	0
260	1e+13	NDD	5	5	0
301	1e+12	NDD	5	5	0
362	5e+12	NDD	5	5	0
365	1e+13	NDD	5	5	0
439	1e+12	NDD	5	5	0
514	5e+12	NDD	5	5	0
577	1e+13	NDD	5	5	0
634	1e+12	NDD	5	5	0
635	5e+12	NDD	5	5	0
713	1e+13	NDD	5	5	0
732	0	CORRELATION	5	5	0
742	0	CORRELATION	5	5	0
879	0	CORRELATION	5	5	0
880	0	CORRELATION	5	5	0

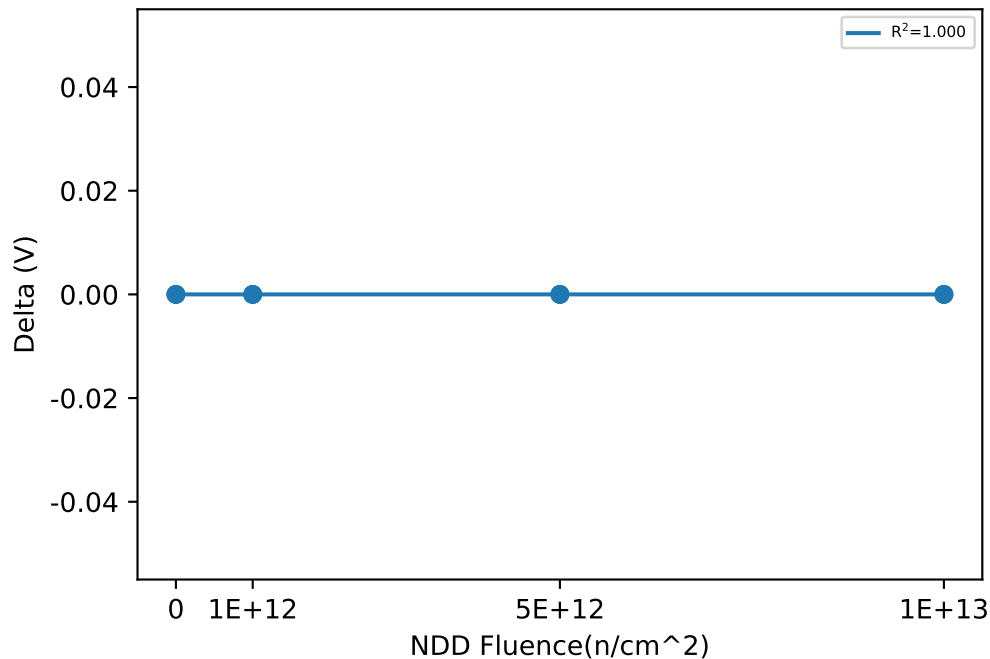
Test Statistics (V)

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	5	5	5	0	5	5	5	0	0	0	0	0
1e+12	5	5	5	0	5	5	5	0	0	0	0	0
5e+12	5	5	5	0	5	5	5	0	0	0	0	0
1e+13	5	5	5	0	5	5	5	0	0	0	0	0

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



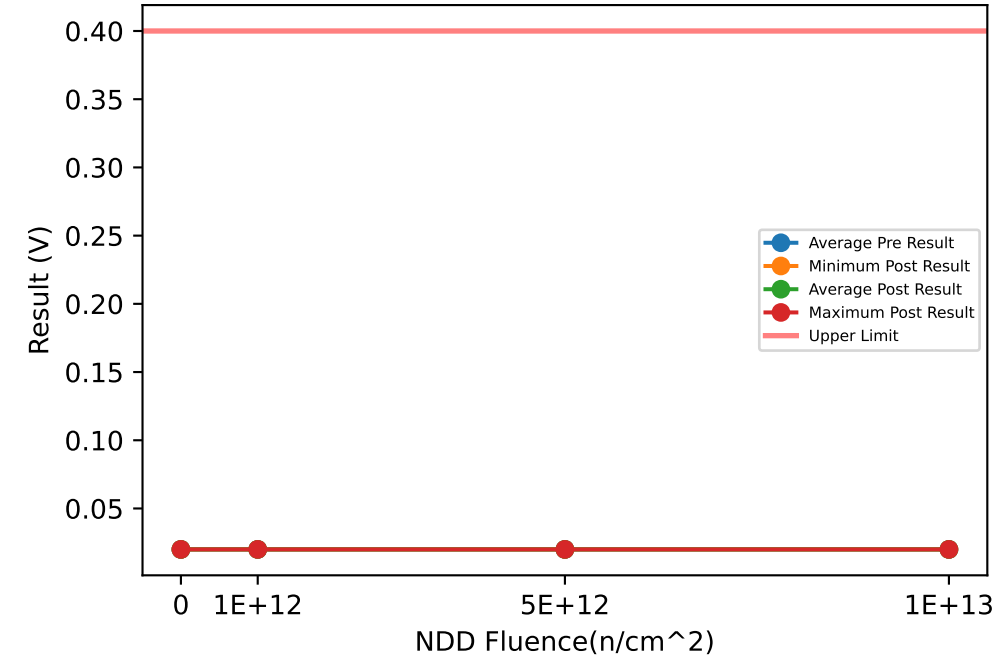
Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

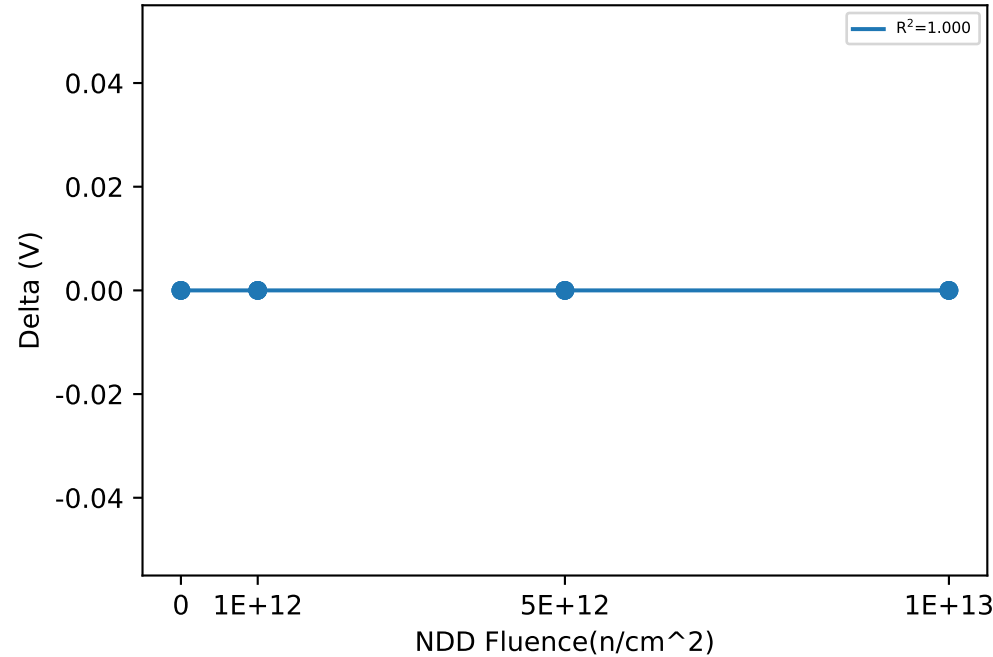
Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 0.4 (V))

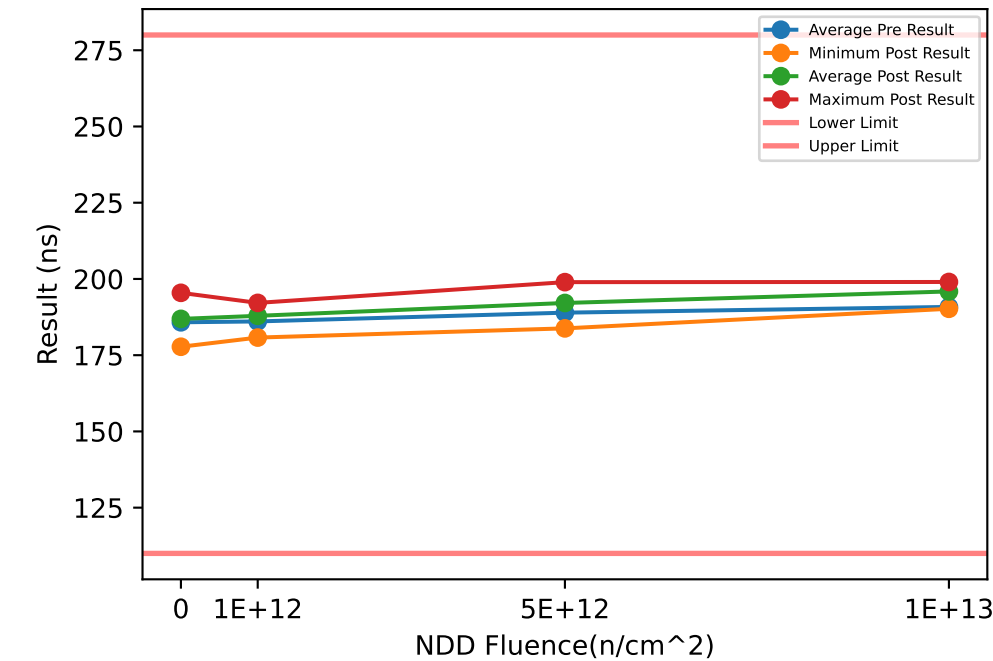
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

Test Statistics (V)

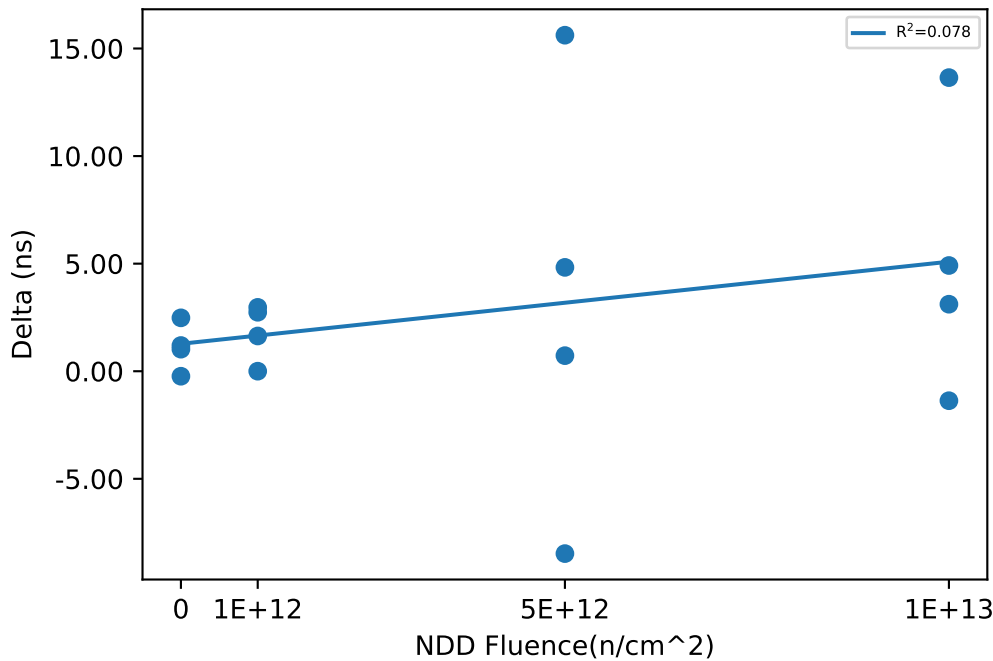
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.16 TIMING|DELAY/SYNC1/4.5//511k/4011/@SYNC1_SW_DELAY_OUTPUT_4V

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



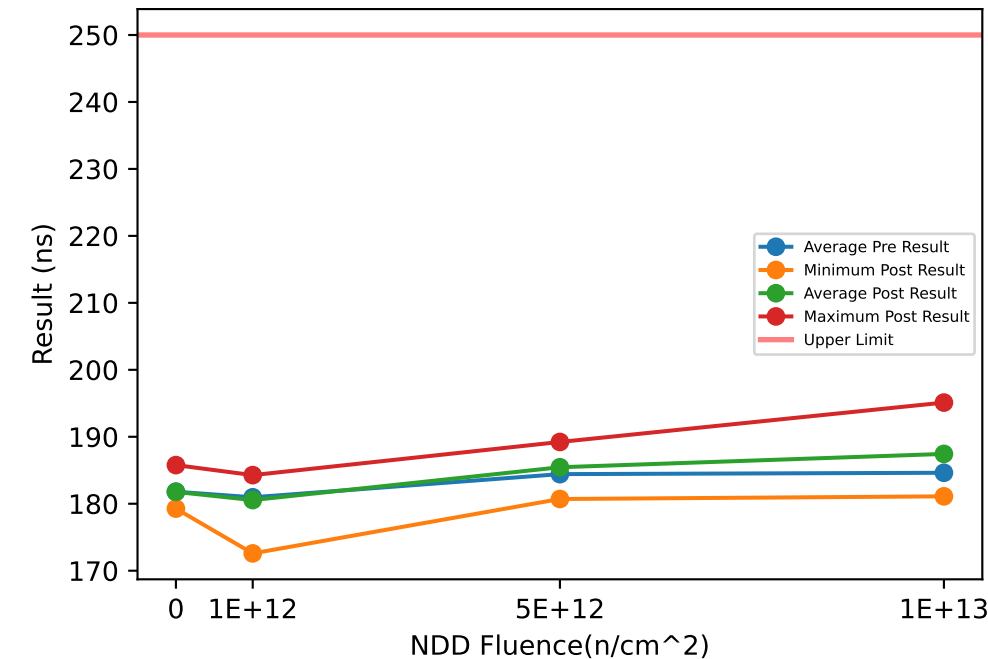
Test Results (Lower Limit = 110.0, Upper Limit = 280.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	179.14	180.78	1.6382
229	5e+12	NDD	192.27	183.79	-8.476
260	1e+13	NDD	191.59	190.22	-1.37
301	1e+12	NDD	188.67	191.41	2.7409
362	5e+12	NDD	183.34	198.95	15.618
365	1e+13	NDD	194.09	199.01	4.9144
439	1e+12	NDD	184.33	187.3	2.9685
514	5e+12	NDD	194.89	195.61	0.7243
577	1e+13	NDD	183.43	197.07	13.647
634	1e+12	NDD	192.15	192.15	0.0021
635	5e+12	NDD	185.3	190.13	4.8272
713	1e+13	NDD	194.2	197.31	3.1151
732	0	CORRELATION	176.57	177.77	1.1955
742	0	CORRELATION	192.97	195.45	2.4816
879	0	CORRELATION	190.16	189.93	-0.2322
880	0	CORRELATION	183.44	184.46	1.0255

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	176.57	185.79	192.97	7.3302	177.77	186.9	195.45	7.5644	-0.2322	1.1176	2.4816	1.1101
1e+12	179.14	186.07	192.15	5.6195	180.78	187.91	192.15	5.2108	0.0021	1.8374	2.9685	1.3545
5e+12	183.34	188.95	194.89	5.5107	183.79	192.12	198.95	6.6401	-8.476	3.1735	15.618	9.9887
1e+13	183.43	190.83	194.2	5.0781	190.22	195.9	199.01	3.8861	-1.37	5.0767	13.647	6.2952

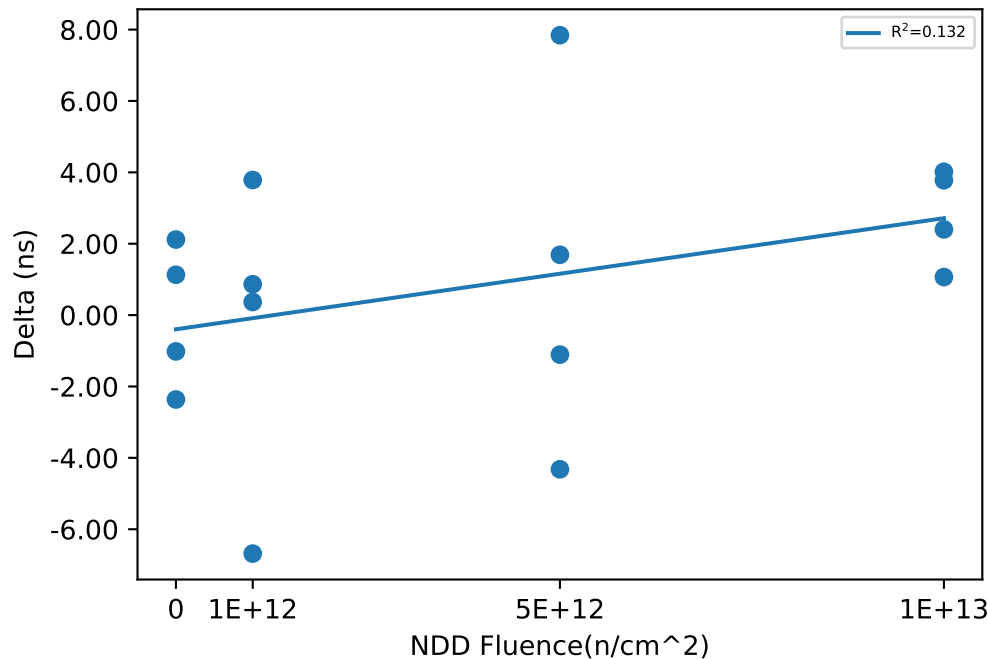
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	183.41	184.27	0.8644
229	5e+12	NDD	181.38	189.22	7.843
260	1e+13	NDD	191.09	195.11	4.0158
301	1e+12	NDD	179.27	172.58	-6.6826
362	5e+12	NDD	185.03	180.71	-4.3205
365	1e+13	NDD	178.7	181.1	2.4017
439	1e+12	NDD	181.95	182.32	0.367
514	5e+12	NDD	187.24	188.93	1.69
577	1e+13	NDD	183.91	187.69	3.7789
634	1e+12	NDD	179.24	183.02	3.7853
635	5e+12	NDD	184.04	182.93	-1.1074
713	1e+13	NDD	184.8	185.86	1.0663
732	0	CORRELATION	184.64	185.77	1.13
742	0	CORRELATION	180.29	179.27	-1.0173
879	0	CORRELATION	183.31	180.94	-2.3639
880	0	CORRELATION	178.96	181.08	2.118

NDD vs Post - Pre Exposure Delta

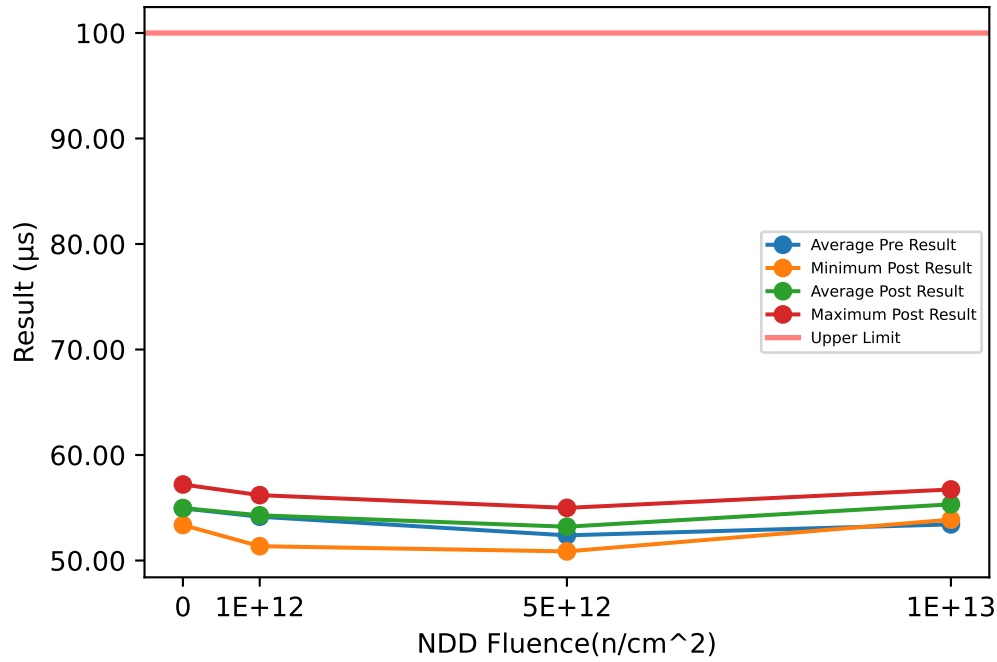


Test Statistics (ns)

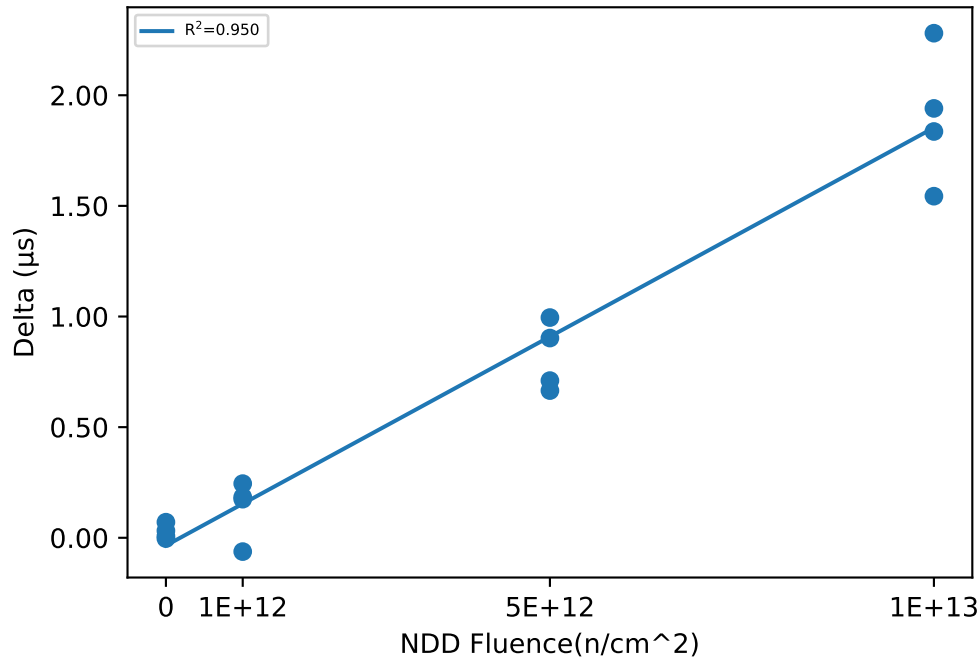
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	178.96	181.8	184.64	2.6248	179.27	181.77	185.77	2.793	-2.3639	-0.0333	2.118	2.0315
1e+12	179.24	180.97	183.41	2.0656	172.58	180.55	184.27	5.3712	-6.6826	-0.41648	3.7853	4.4412
5e+12	181.38	184.42	187.24	2.4301	180.71	185.45	189.22	4.29	-4.3205	1.0263	7.843	5.1656
1e+13	178.7	184.63	191.09	5.0799	181.1	187.44	195.11	5.8154	1.0663	2.8157	4.0158	1.3662

Device Test: 24.164 TIMING|DELAY/EN/14//511k//@T_EN_DELAY

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



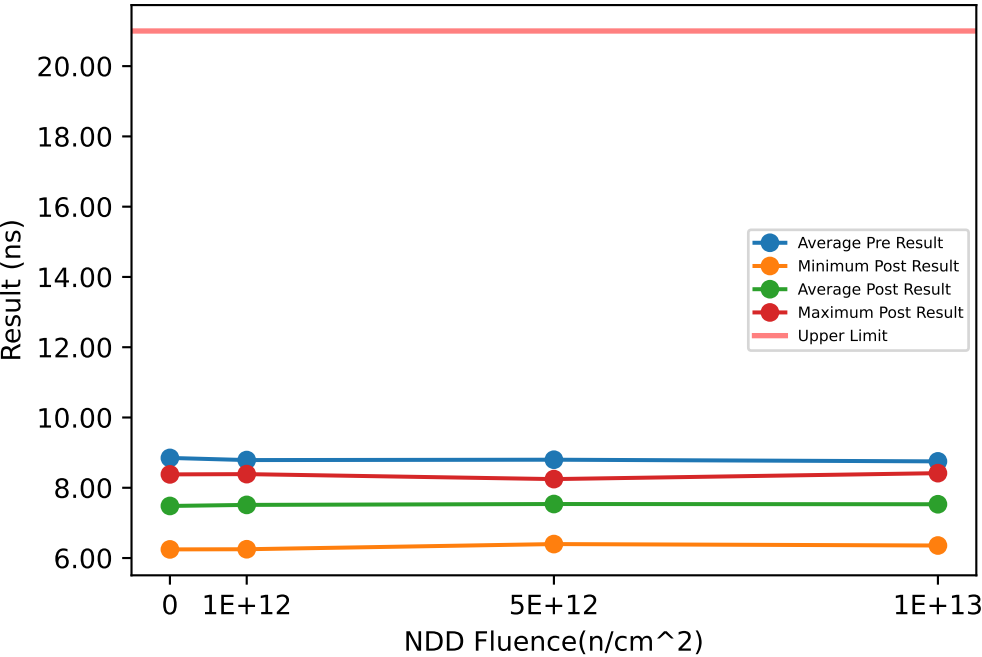
Test Results (Upper Limit = 100.0 (μs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	53.426	53.67	0.2448
229	5e+12	NDD	51.704	52.699	0.9953
260	1e+13	NDD	52.453	54.733	2.2804
301	1e+12	NDD	51.419	51.357	-0.0624
362	5e+12	NDD	54.278	54.988	0.7104
365	1e+13	NDD	52.331	53.875	1.5438
439	1e+12	NDD	56.021	56.196	0.1745
514	5e+12	NDD	53.356	54.258	0.9027
577	1e+13	NDD	54.898	56.734	1.8362
634	1e+12	NDD	55.736	55.921	0.1844
635	5e+12	NDD	50.198	50.864	0.6653
713	1e+13	NDD	54.022	55.962	1.9405
732	0	CORRELATION	57.173	57.205	0.032
742	0	CORRELATION	54.912	54.982	0.0705
879	0	CORRELATION	53.358	53.366	0.0076
880	0	CORRELATION	54.332	54.328	-0.0036

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	53.358	54.944	57.173	1.6185	53.366	54.97	57.205	1.631	-0.0036	0.026625	0.0705	0.03281
1e+12	51.419	54.151	56.021	2.1602	51.357	54.286	56.196	2.2567	-0.0624	0.13533	0.2448	0.13543
5e+12	50.198	52.384	54.278	1.8046	50.864	53.202	54.988	1.8282	0.6653	0.81843	0.9953	0.15653
1e+13	52.331	53.426	54.898	1.2473	53.875	55.326	56.734	1.2708	1.5438	1.9002	2.2804	0.30402

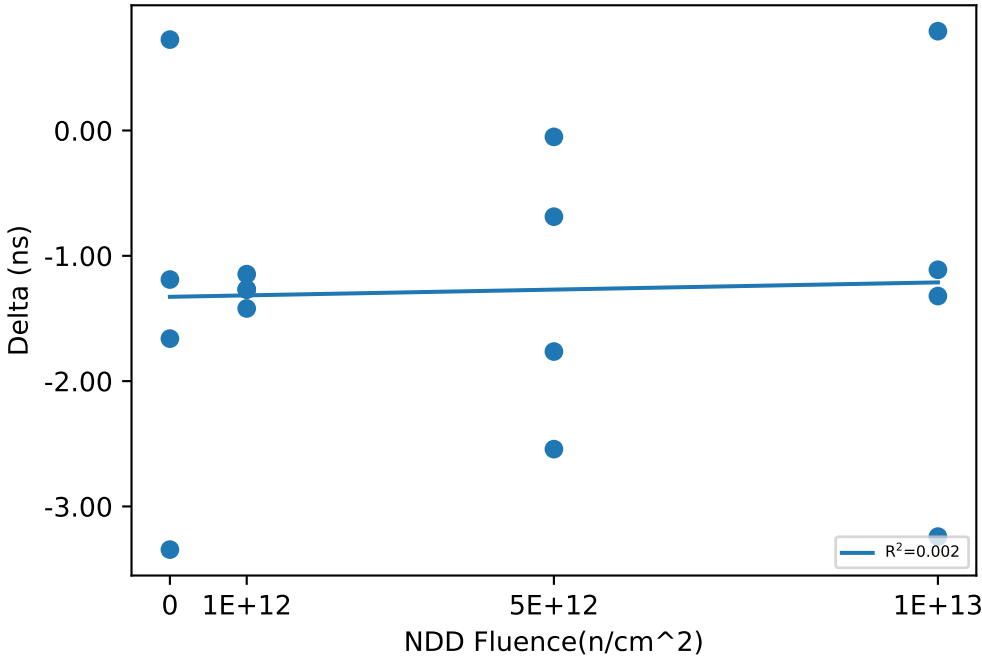
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.9011	7.6348	-1.2663
229	5e+12	NDD	7.7164	7.6656	-0.0508
260	1e+13	NDD	8.9087	7.5876	-1.3211
301	1e+12	NDD	9.6587	8.3883	-1.2704
362	5e+12	NDD	8.9344	8.2467	-0.6877
365	1e+13	NDD	7.6233	8.4157	0.7924
439	1e+12	NDD	8.9224	7.7761	-1.1463
514	5e+12	NDD	9.6031	7.8392	-1.7639
577	1e+13	NDD	8.8751	7.7636	-1.1115
634	1e+12	NDD	7.6704	6.2503	-1.4201
635	5e+12	NDD	8.9401	6.3975	-2.5426
713	1e+13	NDD	9.5973	6.3566	-3.2407
732	0	CORRELATION	8.8884	7.6991	-1.1893
742	0	CORRELATION	7.6553	8.3807	0.7254
879	0	CORRELATION	9.5902	6.2459	-3.3443
880	0	CORRELATION	9.2635	7.6027	-1.6608

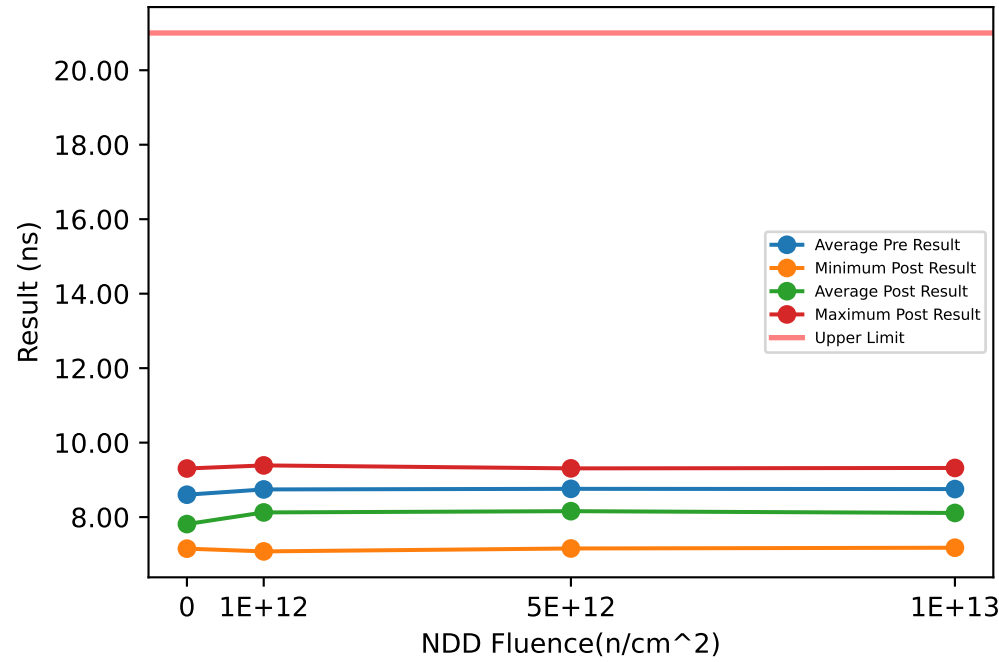
NDD vs Post - Pre Exposure Delta



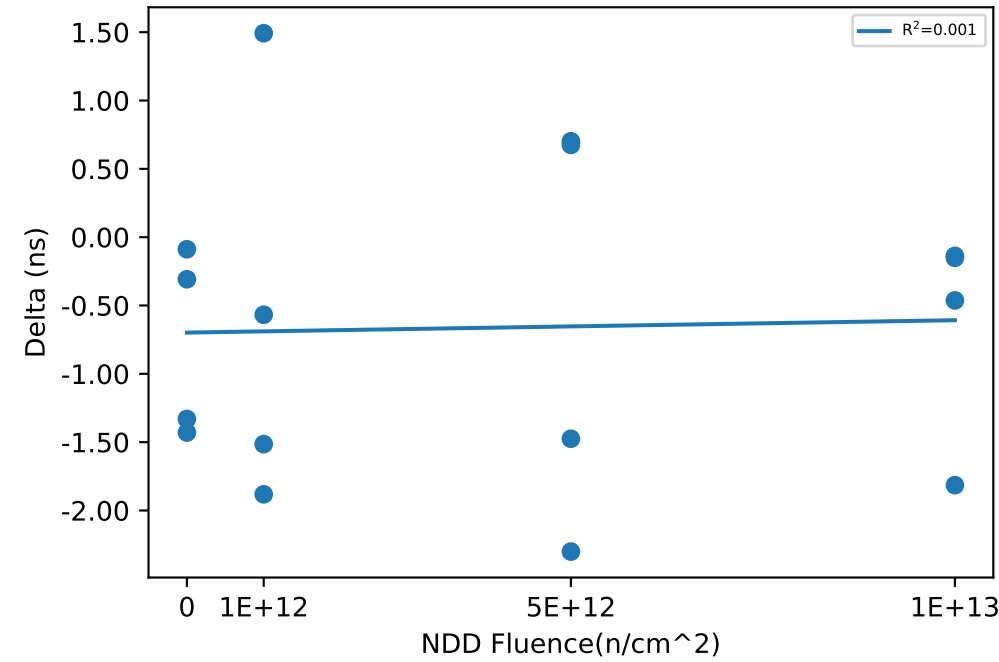
Test Statistics (ns)

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	7.6553	8.8494	9.5902	0.8461	6.2459	7.4821	8.3807	0.89393	-3.3443	-1.3673	0.7254	1.6739
1e+12	7.6704	8.7881	9.6587	0.82422	6.2503	7.5124	8.3883	0.9027	-1.4201	-1.2758	-1.1463	0.11212
5e+12	7.7164	8.7985	9.6031	0.78673	6.3975	7.5373	8.2467	0.79791	-2.5426	-1.2612	-0.0508	1.1089
1e+13	7.6233	8.7511	9.5973	0.82223	6.3566	7.5309	8.4157	0.86008	-3.2407	-1.2202	0.7924	1.6487

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



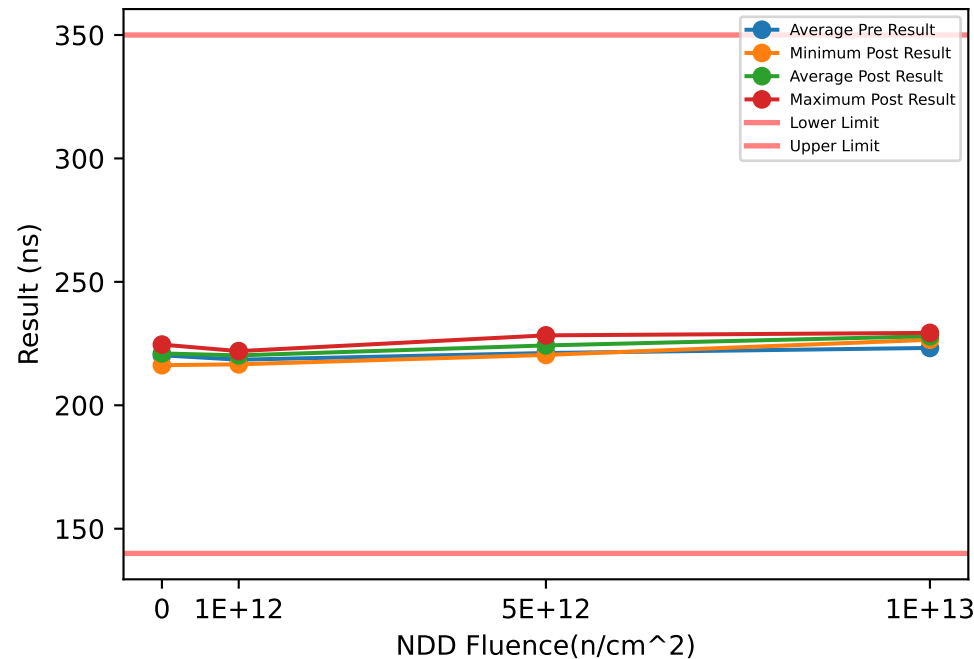
Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.5936	7.0793	-1.5143
229	5e+12	NDD	9.4585	7.1577	-2.3008
260	1e+13	NDD	8.9926	7.1779	-1.8147
301	1e+12	NDD	7.8958	9.3884	1.4926
362	5e+12	NDD	8.6072	9.3087	0.7015
365	1e+13	NDD	9.4567	9.3199	-0.1368
439	1e+12	NDD	9.0779	8.5104	-0.5675
514	5e+12	NDD	7.8824	8.5575	0.6751
577	1e+13	NDD	8.6337	8.4824	-0.1513
634	1e+12	NDD	9.4066	7.5251	-1.8815
635	5e+12	NDD	9.0885	7.6136	-1.4749
713	1e+13	NDD	7.9291	7.4663	-0.4628
732	0	CORRELATION	8.5829	7.1534	-1.4295
742	0	CORRELATION	9.3938	9.3053	-0.0885
879	0	CORRELATION	7.872	7.5641	-0.3079
880	0	CORRELATION	8.5586	7.2282	-1.3304

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	7.872	8.6018	9.3938	0.62239	7.1534	7.8128	9.3053	1.0109	-1.4295	-0.78907	-0.0885	0.68933
1e+12	7.8958	8.7435	9.4066	0.6564	7.0793	8.1258	9.3884	1.0325	-1.8815	-0.61767	1.4926	1.5118
5e+12	7.8824	8.7591	9.4585	0.68052	7.1577	8.1594	9.3087	0.96275	-2.3008	-0.59978	0.7015	1.5251
1e+13	7.9291	8.753	9.4567	0.64437	7.1779	8.1116	9.3199	0.98076	-1.8147	-0.6414	-0.1368	0.79652

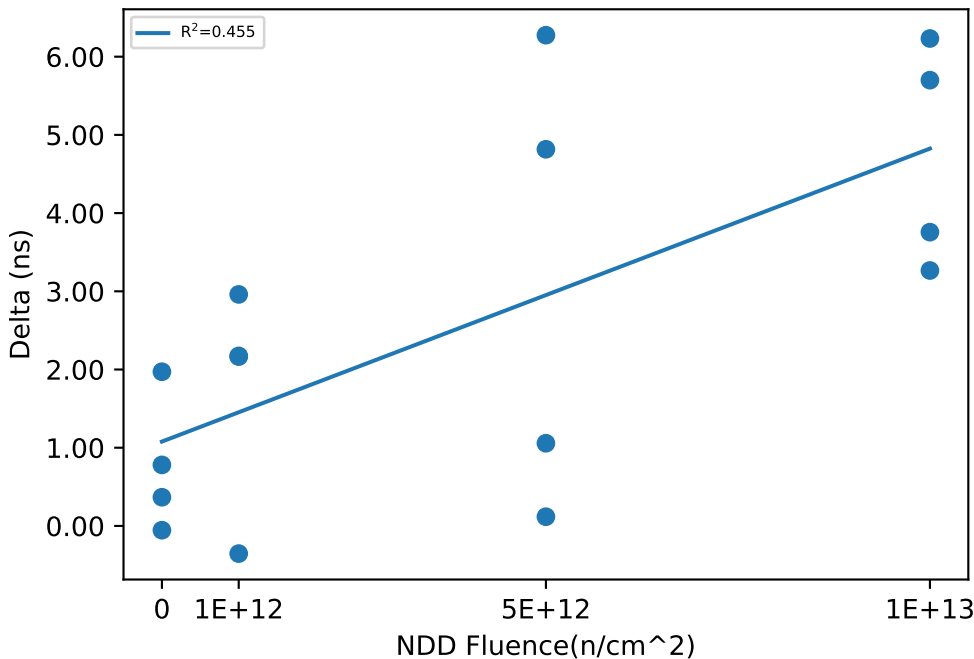
NDD vs Result Stats



Test Results (Lower Limit = 140.0, Upper Limit = 350.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	219	221.18	2.174
229	5e+12	NDD	222.06	222.18	0.1179
260	1e+13	NDD	222.62	228.86	6.2325
301	1e+12	NDD	218.14	221.1	2.9603
362	5e+12	NDD	222.05	228.33	6.2747
365	1e+13	NDD	223.62	229.32	5.6999
439	1e+12	NDD	214.42	216.58	2.1651
514	5e+12	NDD	225.01	226.07	1.0572
577	1e+13	NDD	222.78	226.54	3.7564
634	1e+12	NDD	222.3	221.94	-0.3538
635	5e+12	NDD	215.58	220.4	4.8162
713	1e+13	NDD	223.89	227.16	3.2661
732	0	CORRELATION	215.46	216.24	0.7802
742	0	CORRELATION	222.61	224.59	1.9717
879	0	CORRELATION	219.45	219.4	-0.0545
880	0	CORRELATION	223.47	223.83	0.3669

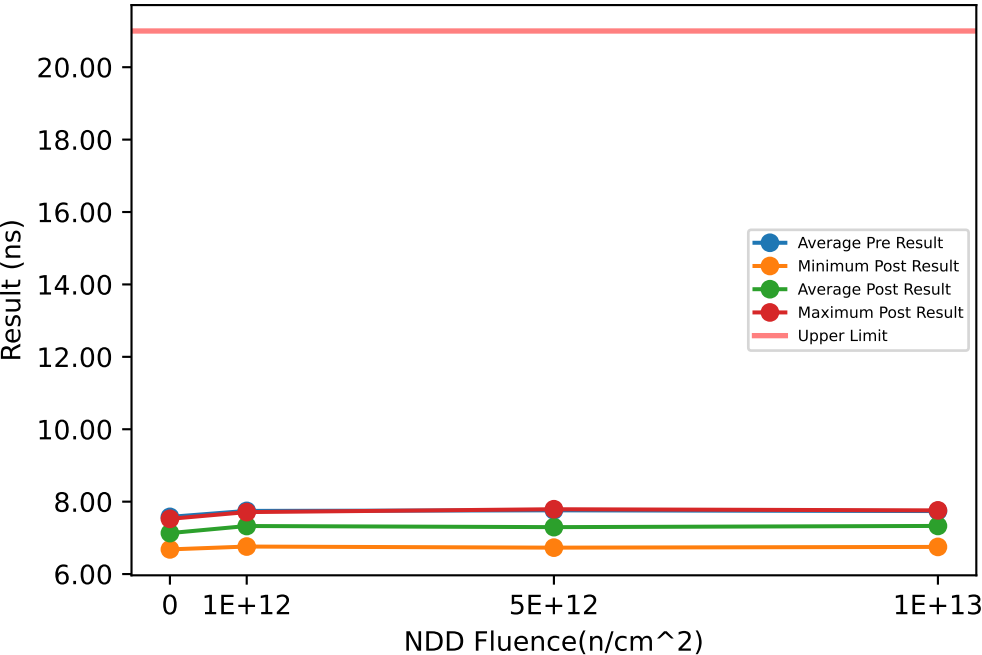
NDD vs Post - Pre Exposure Delta



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	215.46	220.25	223.47	3.6282	216.24	221.02	224.59	3.9194	-0.0545	0.76608	1.9717	0.87301
1e+12	214.42	218.46	222.3	3.2376	216.58	220.2	221.94	2.4411	-0.3538	1.7364	2.9603	1.4425
5e+12	215.58	221.18	225.01	3.9807	220.4	224.24	228.33	3.6068	0.1179	3.0665	6.2747	2.9488
1e+13	222.62	223.23	223.89	0.62177	226.54	227.97	229.32	1.3327	3.2661	4.7387	6.2325	1.4478

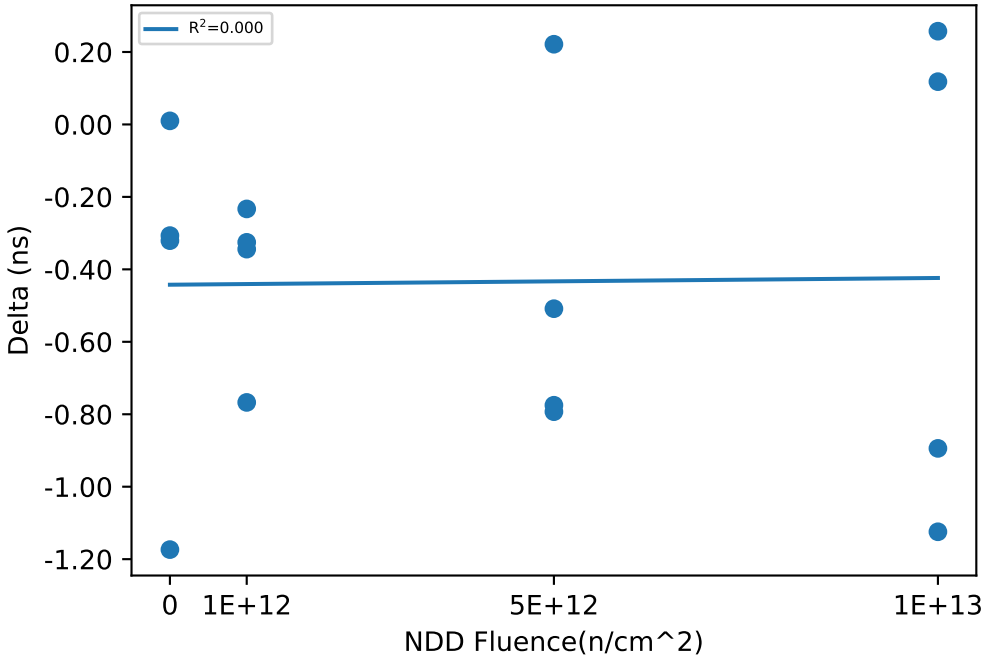
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.5312	7.187	-0.3442
229	5e+12	NDD	7.9005	7.1254	-0.7751
260	1e+13	NDD	8.0483	7.1541	-0.8942
301	1e+12	NDD	7.5273	6.76	-0.7673
362	5e+12	NDD	7.5225	6.7296	-0.7929
365	1e+13	NDD	7.8743	6.7499	-1.1244
439	1e+12	NDD	8.0367	7.7113	-0.3254
514	5e+12	NDD	7.5695	7.7909	0.2214
577	1e+13	NDD	7.5017	7.7591	0.2574
634	1e+12	NDD	7.8836	7.6504	-0.2332
635	5e+12	NDD	8.0475	7.5389	-0.5086
713	1e+13	NDD	7.536	7.6541	0.1181
732	0	CORRELATION	7.48	7.1732	-0.3068
742	0	CORRELATION	7.8549	6.6813	-1.1736
879	0	CORRELATION	7.5151	7.525	0.0099
880	0	CORRELATION	7.4676	7.1468	-0.3208

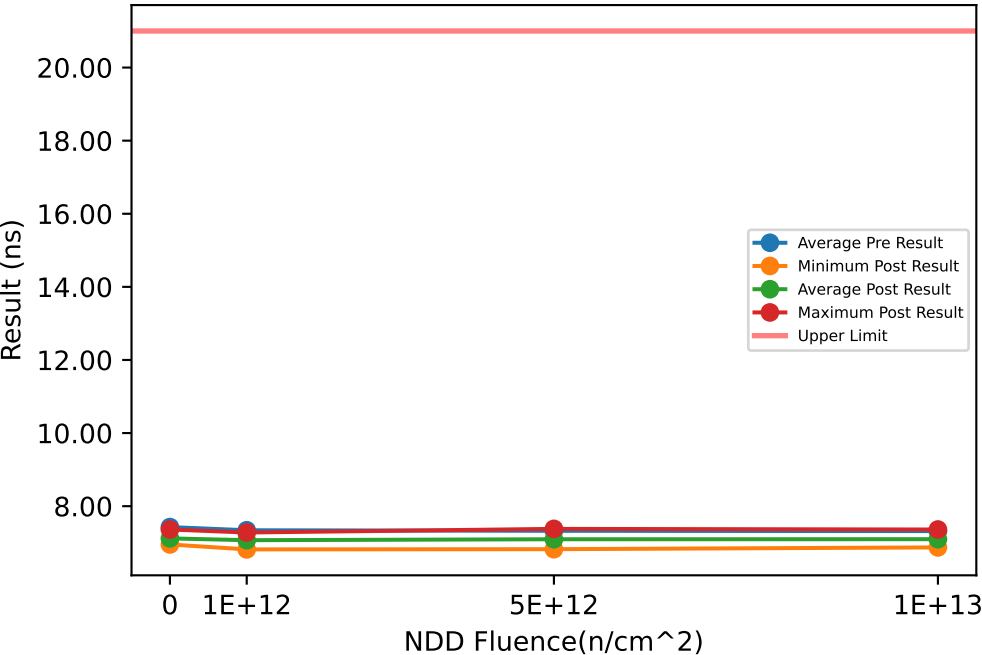
NDD vs Post - Pre Exposure Delta



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	7.4676	7.5794	7.8549	0.18477	6.6813	7.1316	7.525	0.34617	-1.1736	-0.44783	0.0099	0.50737
1e+12	7.5273	7.7447	8.0367	0.25652	6.76	7.3272	7.7113	0.44473	-0.7673	-0.41753	-0.2332	0.23817
5e+12	7.5225	7.76	8.0475	0.25501	6.7296	7.2962	7.7909	0.46685	-0.7929	-0.4638	0.2214	0.47495
1e+13	7.5017	7.7401	8.0483	0.26551	6.7499	7.3293	7.7591	0.46784	-1.1244	-0.41077	0.2574	0.69979

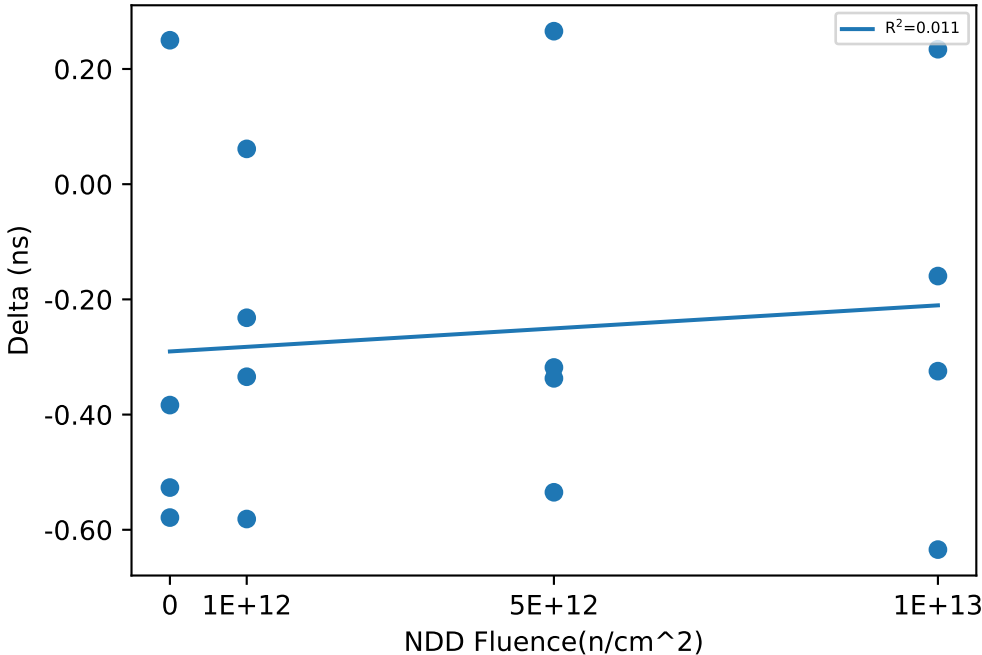
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.547	6.9657	-0.5813
229	5e+12	NDD	7.5234	6.9885	-0.5349
260	1e+13	NDD	7.1253	6.9658	-0.1595
301	1e+12	NDD	7.1539	7.2152	0.0613
362	5e+12	NDD	7.5273	7.1902	-0.3371
365	1e+13	NDD	7.5131	7.1885	-0.3246
439	1e+12	NDD	7.1519	6.8176	-0.3343
514	5e+12	NDD	7.1418	6.8236	-0.3182
577	1e+13	NDD	7.5065	6.8721	-0.6344
634	1e+12	NDD	7.5115	7.2796	-0.2319
635	5e+12	NDD	7.1132	7.3788	0.2656
713	1e+13	NDD	7.1272	7.3615	0.2343
732	0	CORRELATION	7.545	7.0183	-0.5267
742	0	CORRELATION	7.5245	7.141	-0.3835
879	0	CORRELATION	7.1118	7.3617	0.2499
880	0	CORRELATION	7.5319	6.9531	-0.5788

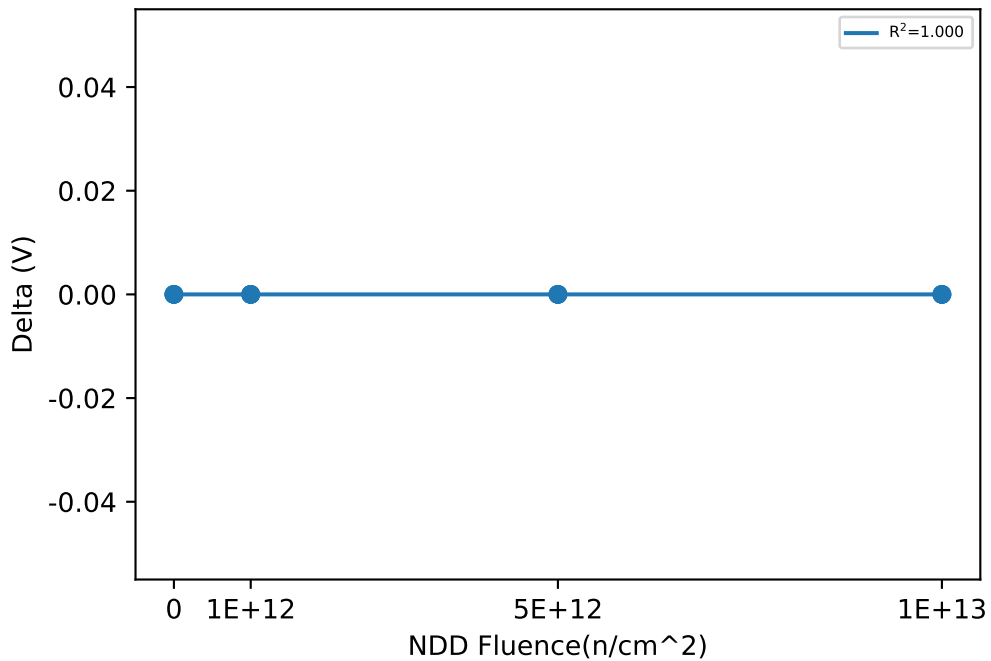
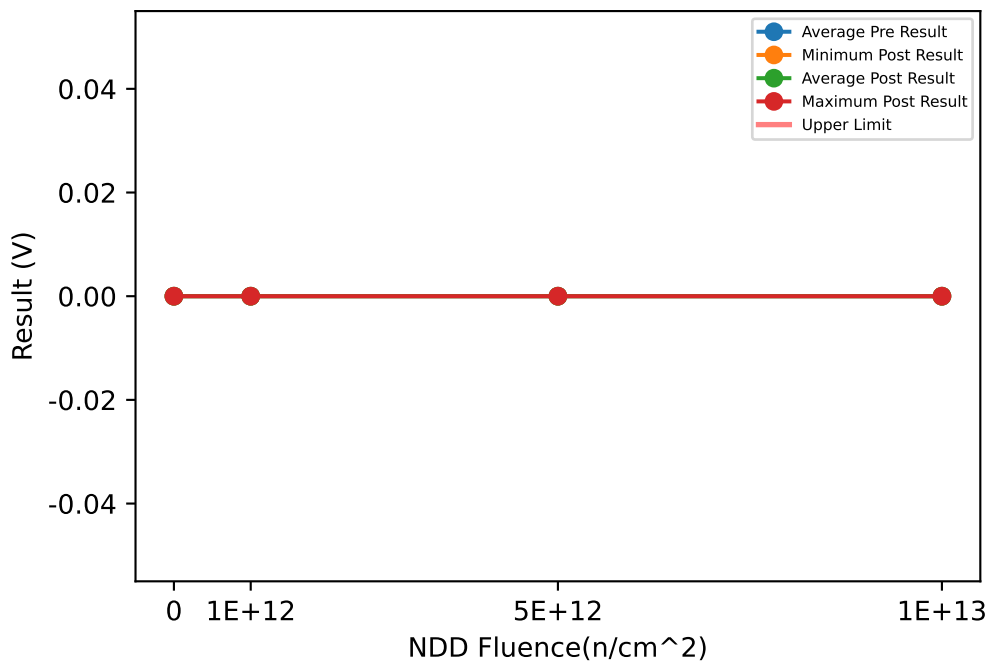
NDD vs Post - Pre Exposure Delta



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	7.1118	7.4283	7.545	0.21117	6.9531	7.1185	7.3617	0.17986	-0.5788	-0.30977	0.2499	0.38214
1e+12	7.1519	7.3411	7.547	0.21777	6.8176	7.0695	7.2796	0.21571	-0.5813	-0.27155	0.0613	0.26598
5e+12	7.1132	7.3264	7.5273	0.23	6.8236	7.0953	7.3788	0.24125	-0.5349	-0.23115	0.2656	0.34536
1e+13	7.1253	7.318	7.5131	0.22146	6.8721	7.097	7.3615	0.2207	-0.6344	-0.22105	0.2343	0.36181

Device Test: 24.22 LEVELS|VOH/SYNC1/4.5//511k/4011/@SYNC_OUT_HIGH



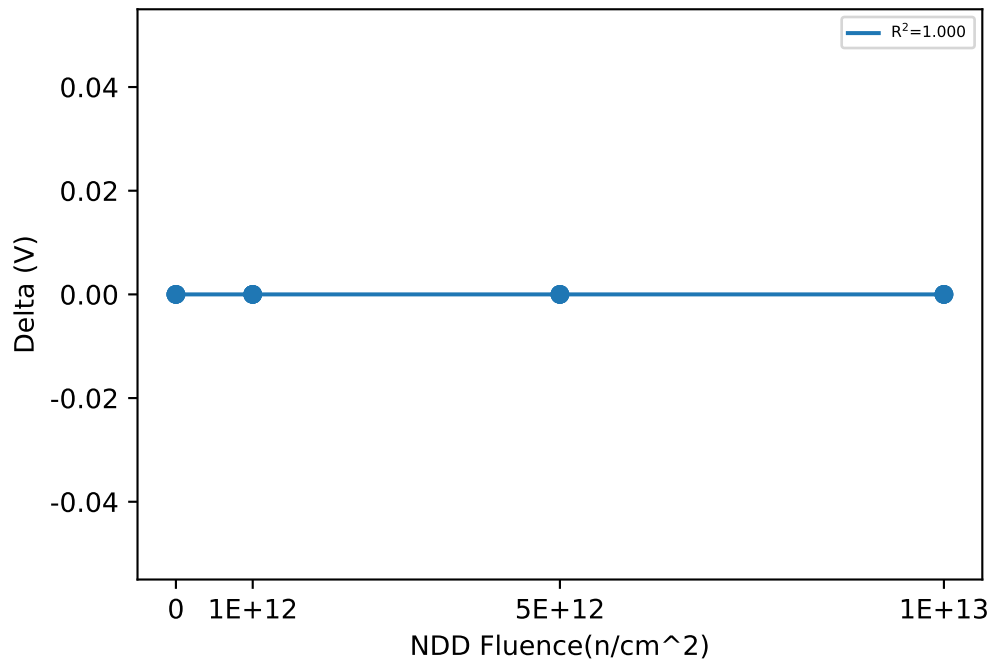
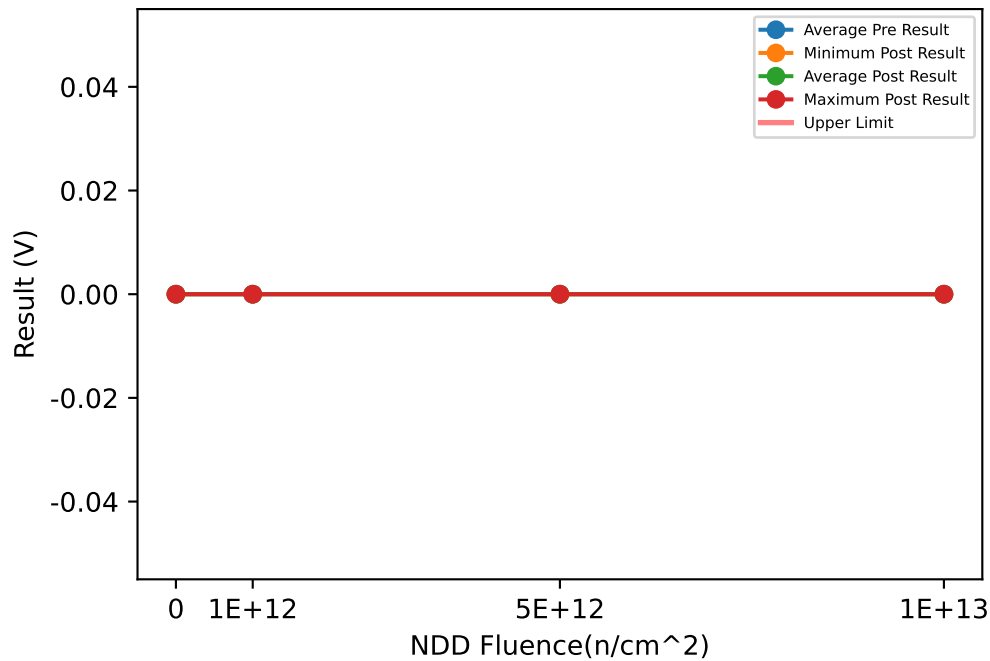
Test Results (No Limits Specified (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0	0	0
229	5e+12	NDD	0	0	0
260	1e+13	NDD	0	0	0
301	1e+12	NDD	0	0	0
362	5e+12	NDD	0	0	0
365	1e+13	NDD	0	0	0
439	1e+12	NDD	0	0	0
514	5e+12	NDD	0	0	0
577	1e+13	NDD	0	0	0
634	1e+12	NDD	0	0	0
635	5e+12	NDD	0	0	0
713	1e+13	NDD	0	0	0
732	0	CORRELATION	0	0	0
742	0	CORRELATION	0	0	0
879	0	CORRELATION	0	0	0
880	0	CORRELATION	0	0	0

Test Statistics (V)

[illegible]

Device Test: 24.23 LEVELS|VOH/SYNC2/4.5//511k//@SYNC OUT HIGH



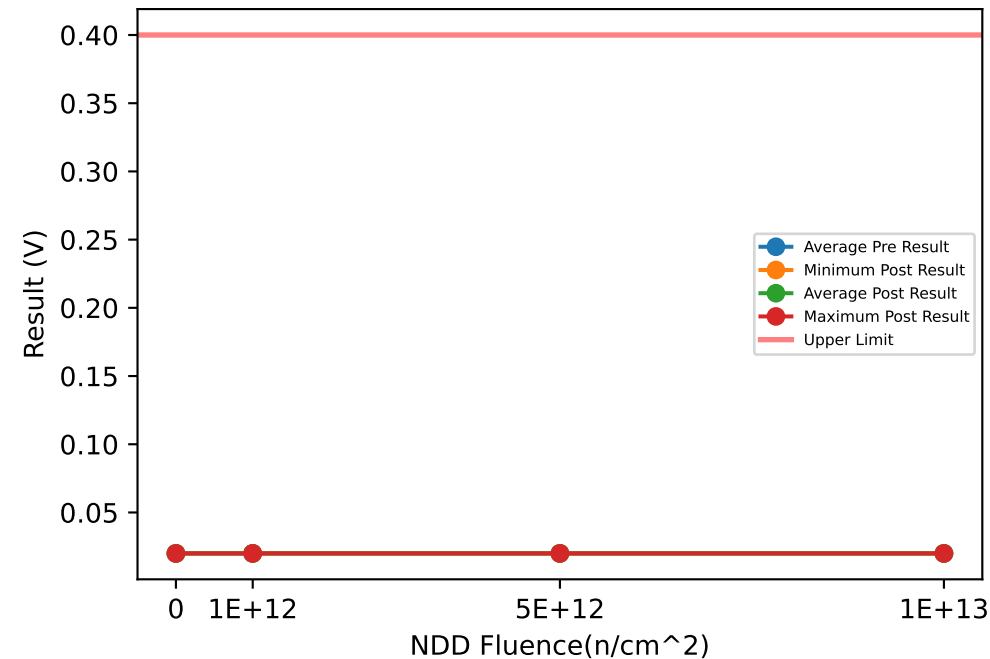
Test Results (No Limits Specified (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0	0	0
229	5e+12	NDD	0	0	0
260	1e+13	NDD	0	0	0
301	1e+12	NDD	0	0	0
362	5e+12	NDD	0	0	0
365	1e+13	NDD	0	0	0
439	1e+12	NDD	0	0	0
514	5e+12	NDD	0	0	0
577	1e+13	NDD	0	0	0
634	1e+12	NDD	0	0	0
635	5e+12	NDD	0	0	0
713	1e+13	NDD	0	0	0
732	0	CORRELATION	0	0	0
742	0	CORRELATION	0	0	0
879	0	CORRELATION	0	0	0
880	0	CORRELATION	0	0	0

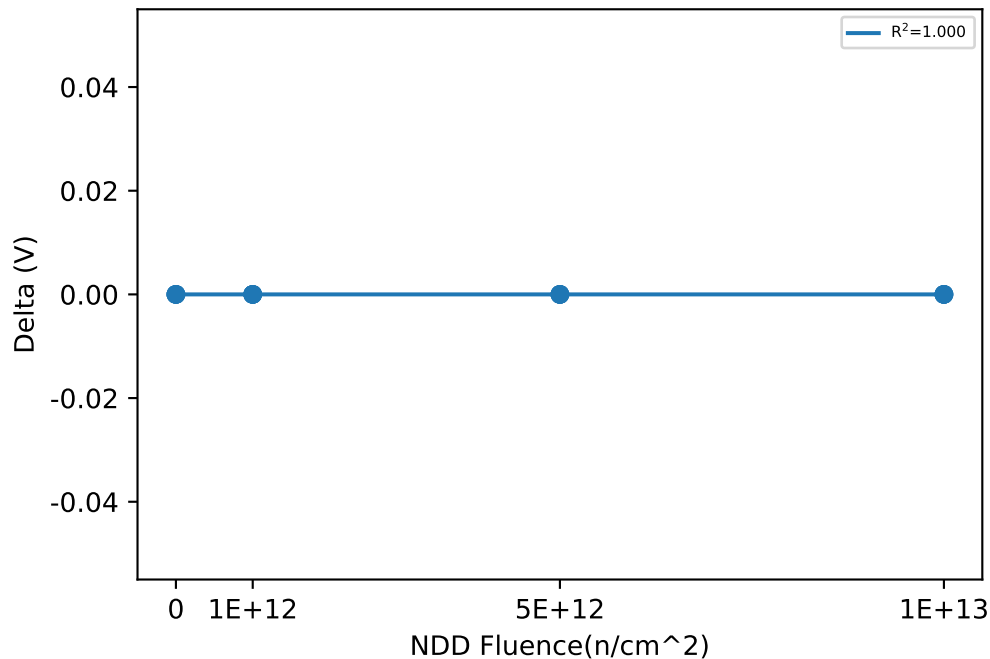
Test Statistics (V)

[illegible]

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 0.4 (V))

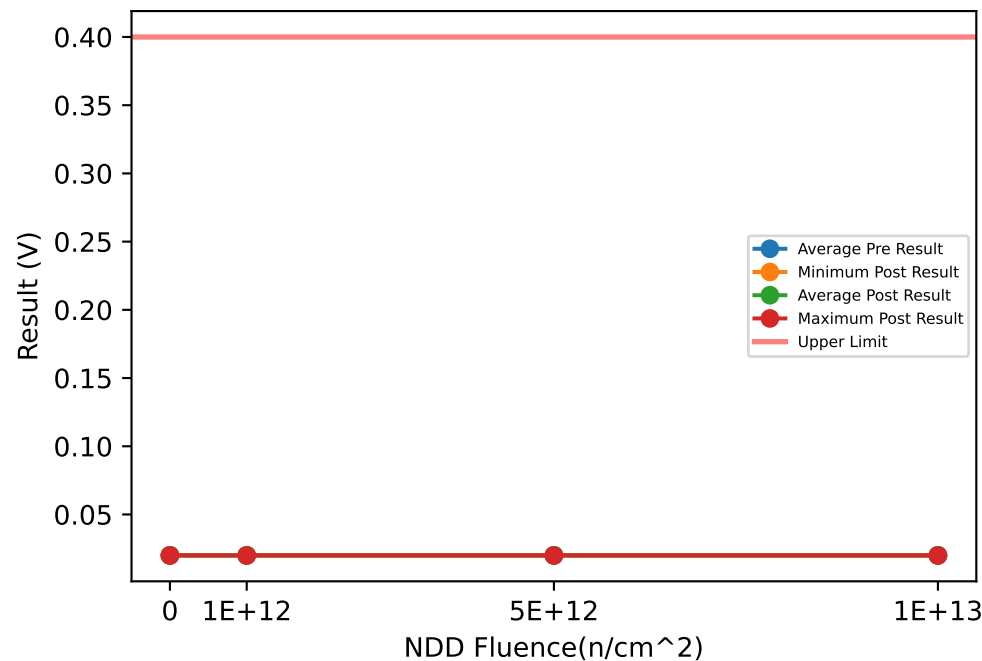
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

Test Statistics (V)

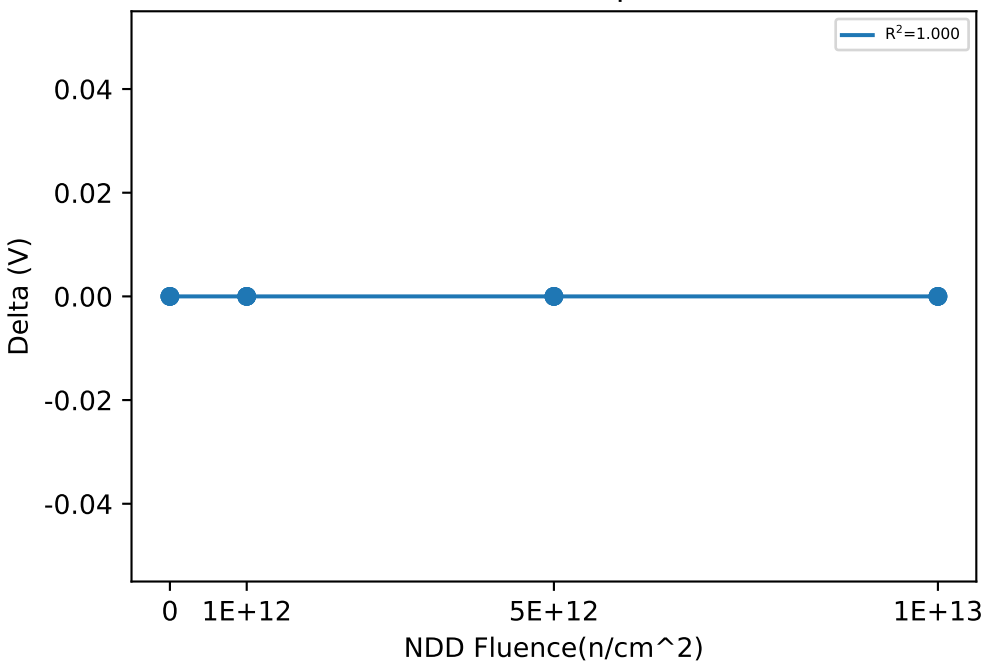
Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

Device Test: 24.25 LEVELS|VOL/SYNC2/4.5//511k//@SYNC_OUT_LOW

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta

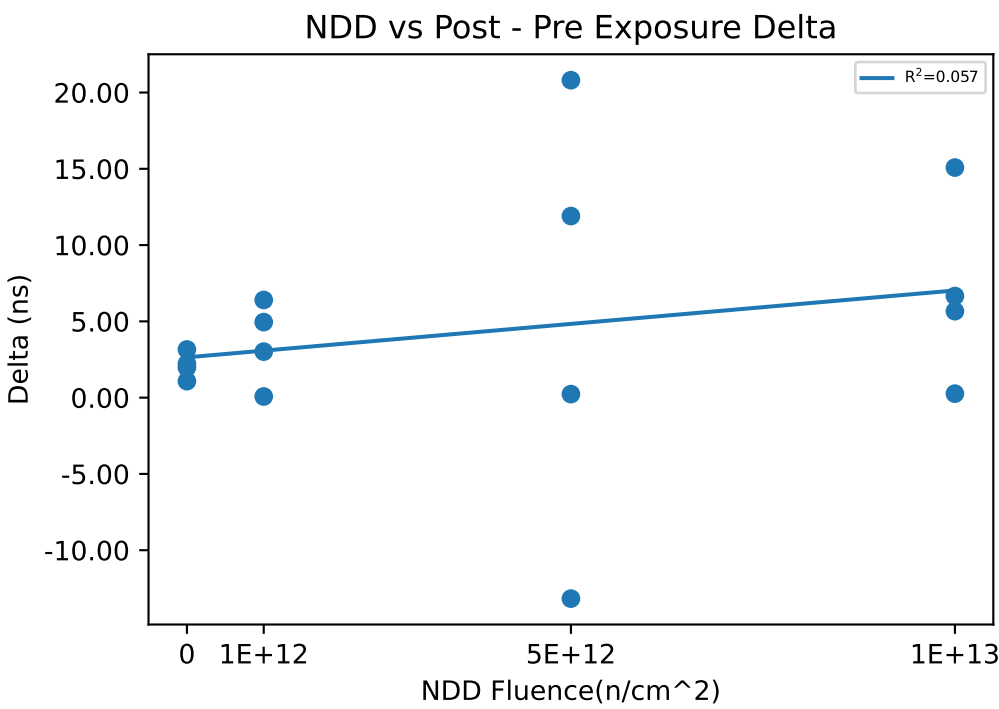
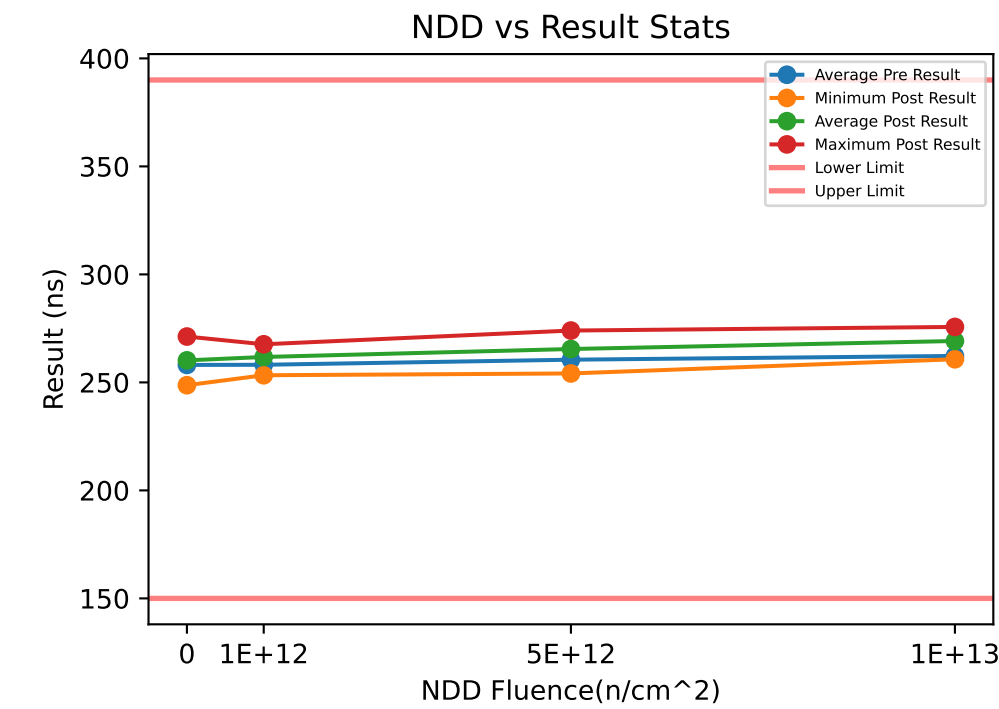


Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0



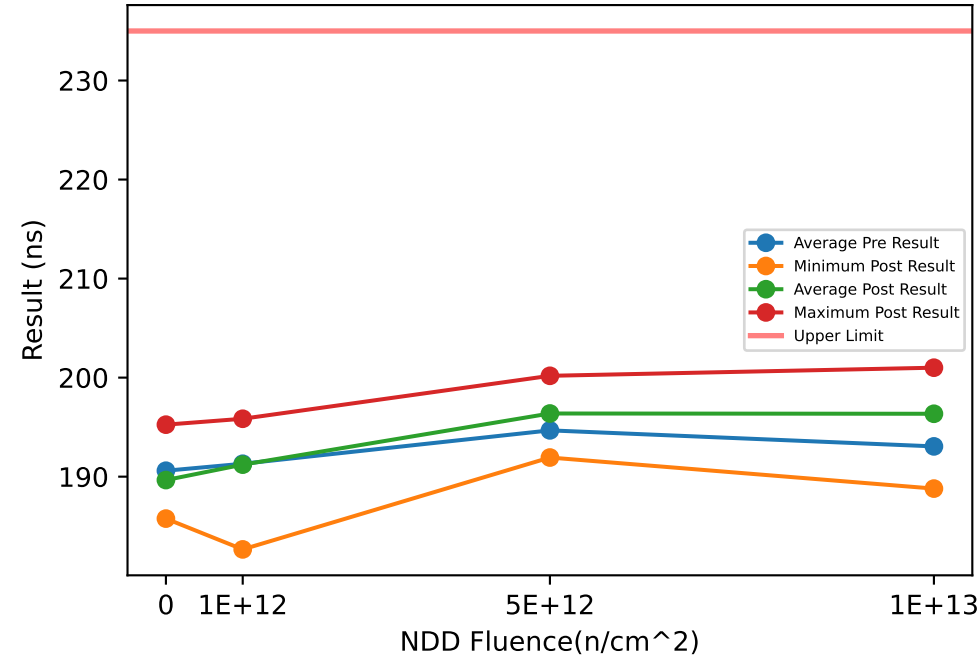
Test Results (Lower Limit = 150.0, Upper Limit = 390.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	250.29	253.31	3.0174
229	5e+12	NDD	267.31	254.14	-13.172
260	1e+13	NDD	260.45	260.71	0.2618
301	1e+12	NDD	261.24	267.64	6.4029
362	5e+12	NDD	253.2	274	20.809
365	1e+13	NDD	269.02	275.68	6.6607
439	1e+12	NDD	253.73	258.69	4.9517
514	5e+12	NDD	268.18	268.41	0.2315
577	1e+13	NDD	252.93	268.01	15.082
634	1e+12	NDD	267.35	267.43	0.0754
635	5e+12	NDD	253.36	265.26	11.903
713	1e+13	NDD	266.6	272.27	5.6676
732	0	CORRELATION	247.61	248.7	1.0815
742	0	CORRELATION	268.07	271.23	3.1584
879	0	CORRELATION	262.69	264.91	2.2245
880	0	CORRELATION	253.97	255.94	1.9764

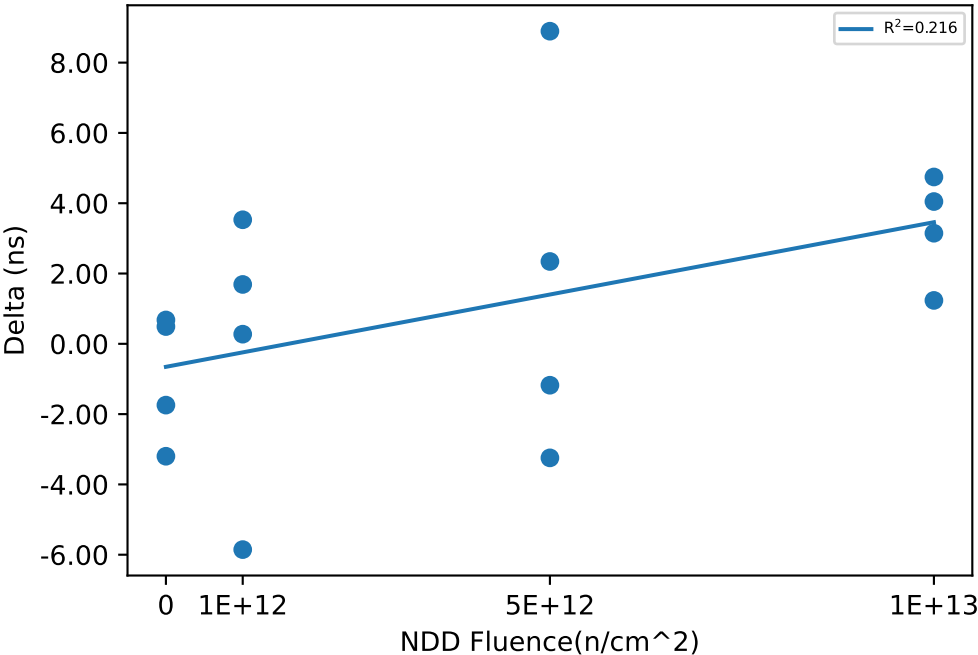
Test Statistics (ns)

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	247.61	258.08	268.07	9.0823	248.7	260.2	271.23	9.9042	1.0815	2.1102	3.1584	0.85399
1e+12	250.29	258.16	267.35	7.6491	253.31	261.77	267.64	7.0152	0.0754	3.6118	6.4029	2.7353
5e+12	253.2	260.51	268.18	8.3611	254.14	265.45	274	8.3641	-13.172	4.9427	20.809	14.725
1e+13	252.93	262.25	269.02	7.1831	260.71	269.17	275.68	6.4497	0.2618	6.9181	15.082	6.1262

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



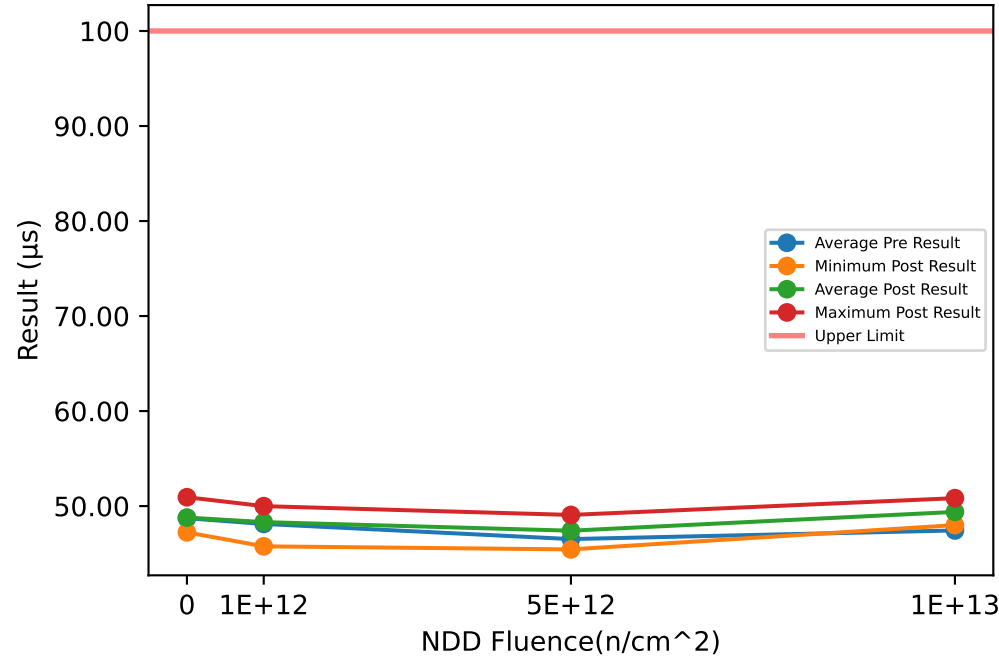
Test Results (Upper Limit = 235.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	194.16	195.85	1.6892
229	5e+12	NDD	190.49	199.39	8.8941
260	1e+13	NDD	196.26	201	4.7468
301	1e+12	NDD	188.51	182.66	-5.8544
362	5e+12	NDD	195.18	191.93	-3.2447
365	1e+13	NDD	185.65	188.79	3.1464
439	1e+12	NDD	192.09	192.36	0.2743
514	5e+12	NDD	197.84	200.18	2.3425
577	1e+13	NDD	195.54	199.59	4.048
634	1e+12	NDD	190.46	193.99	3.5295
635	5e+12	NDD	195.19	194.01	-1.178
713	1e+13	NDD	194.78	196.02	1.2348
732	0	CORRELATION	194.76	195.25	0.4913
742	0	CORRELATION	187.51	185.76	-1.7439
879	0	CORRELATION	192.13	188.93	-3.1986
880	0	CORRELATION	188	188.68	0.6786

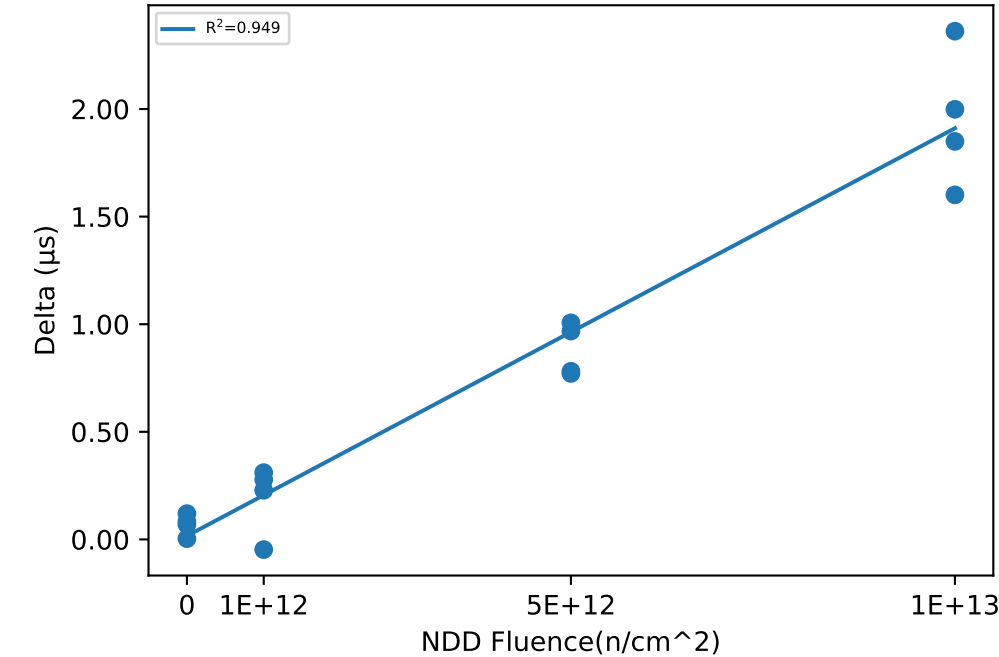
Test Statistics (ns)

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	187.51	190.6	194.76	3.463	185.76	189.66	195.25	3.9967	-3.1986	-0.94315	0.6786	1.8633
1e+12	188.51	191.3	194.16	2.4002	182.66	191.21	195.85	5.8798	-5.8544	-0.09035	3.5295	4.0672
5e+12	190.49	194.67	197.84	3.057	191.93	196.38	200.18	4.0373	-3.2447	1.7035	8.8941	5.3198
1e+13	185.65	193.06	196.26	4.9752	188.79	196.35	201	5.4567	1.2348	3.294	4.7468	1.5211

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



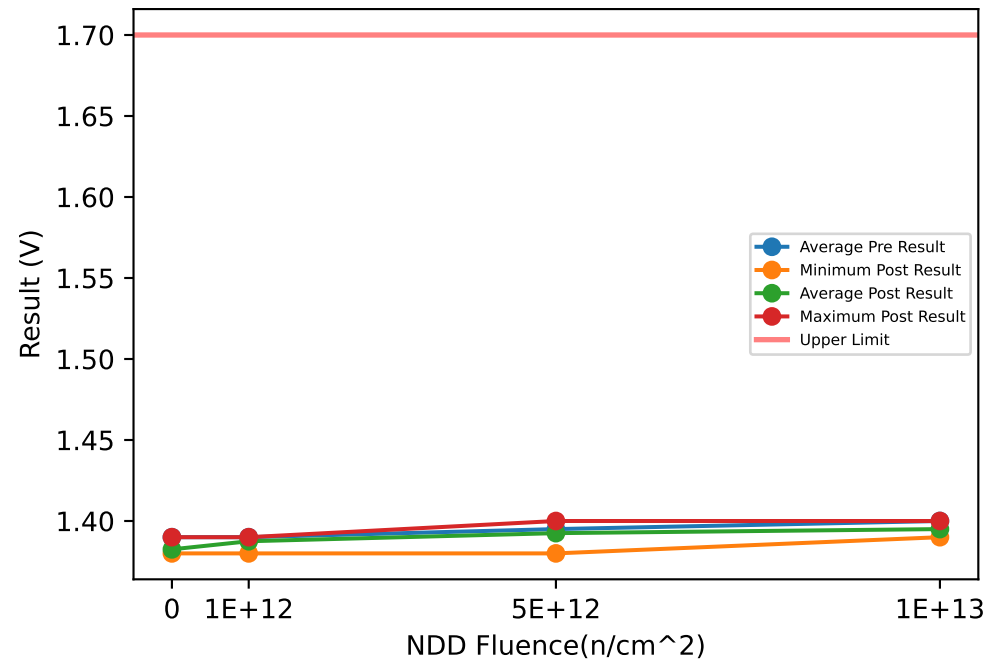
Test Results (Upper Limit = 100.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	47.433	47.744	0.3104
229	5e+12	NDD	45.951	46.958	1.0064
260	1e+13	NDD	46.567	48.929	2.3616
301	1e+12	NDD	45.811	45.763	-0.0473
362	5e+12	NDD	48.288	49.069	0.7814
365	1e+13	NDD	46.397	47.998	1.6011
439	1e+12	NDD	49.717	49.995	0.2777
514	5e+12	NDD	47.202	48.17	0.9681
577	1e+13	NDD	48.984	50.834	1.8495
634	1e+12	NDD	49.531	49.759	0.2285
635	5e+12	NDD	44.671	45.442	0.7712
713	1e+13	NDD	47.79	49.788	1.9986
732	0	CORRELATION	50.85	50.933	0.0833
742	0	CORRELATION	48.698	48.818	0.1199
879	0	CORRELATION	47.167	47.237	0.0694
880	0	CORRELATION	48.181	48.185	0.0037

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	47.167	48.724	50.85	1.5532	47.237	48.793	50.933	1.5676	0.0037	0.069075	0.1199	0.04851
1e+12	45.811	48.123	49.717	1.8569	45.763	48.315	49.995	1.9785	-0.0473	0.19232	0.3104	0.16326
5e+12	44.671	46.528	48.288	1.5634	45.442	47.41	49.069	1.5714	0.7712	0.88177	1.0064	0.12286
1e+13	46.397	47.435	48.984	1.2052	47.998	49.387	50.834	1.2102	1.6011	1.9527	2.3616	0.31811

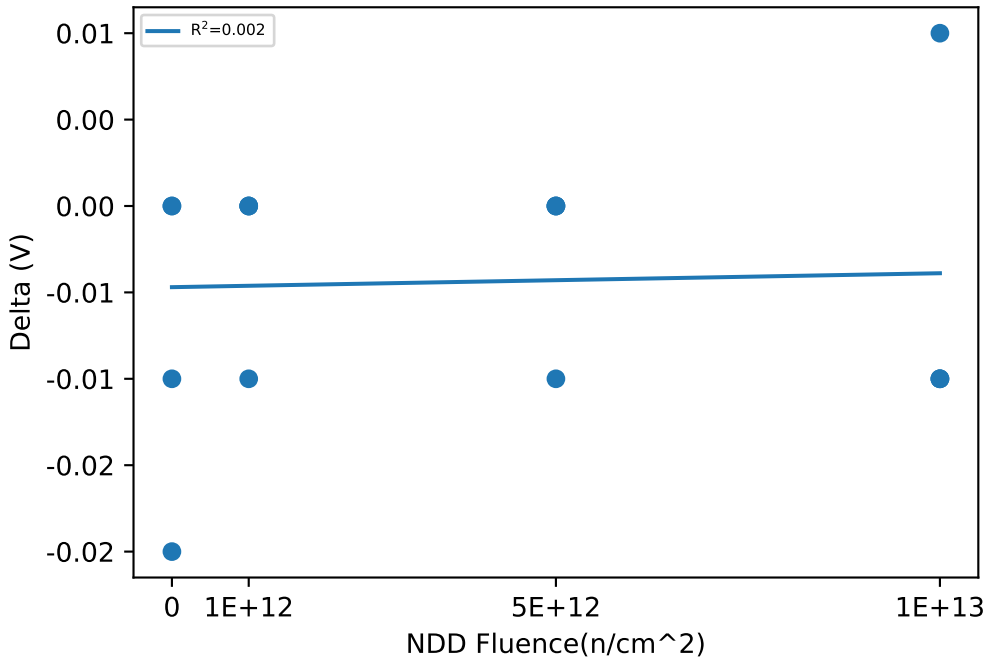
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

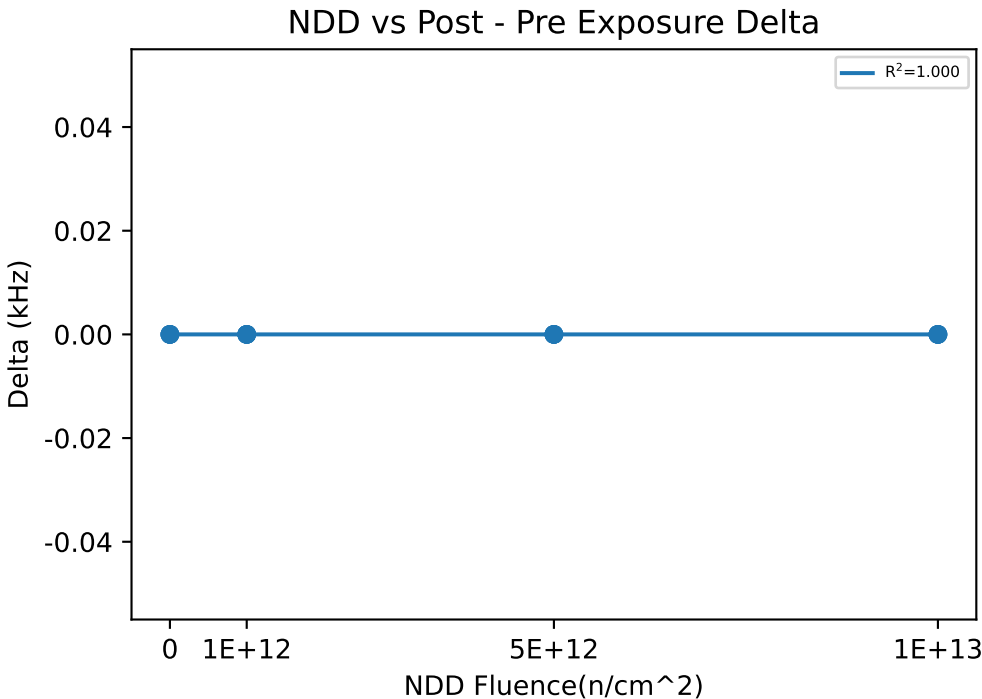
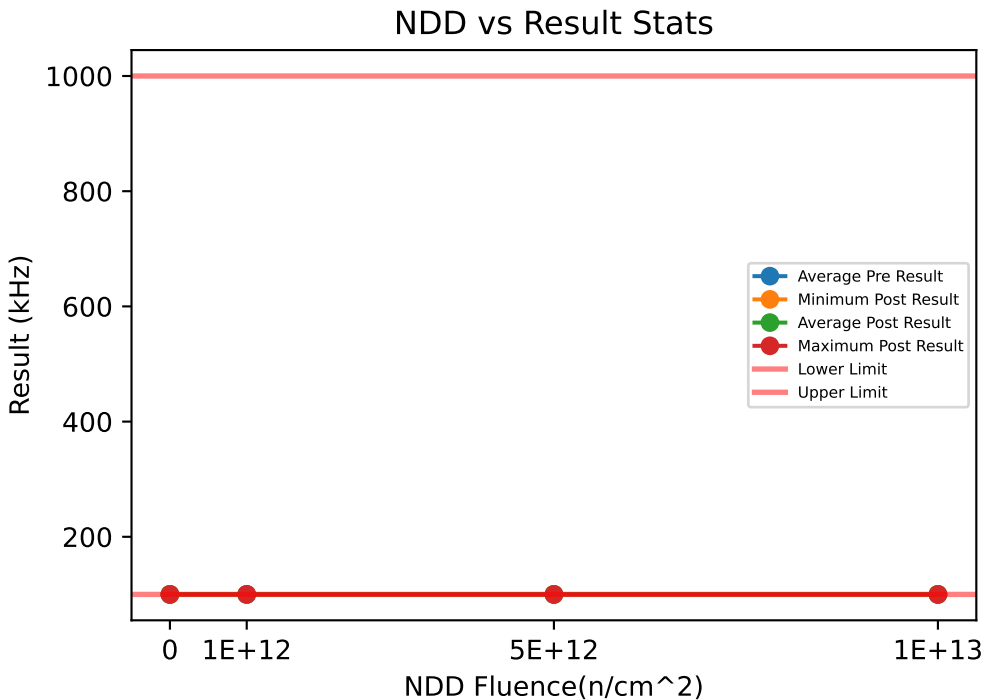
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.39	1.39	0
229	5e+12	NDD	1.4	1.4	0
260	1e+13	NDD	1.39	1.4	0.01
301	1e+12	NDD	1.39	1.39	0
362	5e+12	NDD	1.41	1.4	-0.01
365	1e+13	NDD	1.4	1.39	-0.01
439	1e+12	NDD	1.38	1.38	0
514	5e+12	NDD	1.38	1.38	0
577	1e+13	NDD	1.4	1.39	-0.01
634	1e+12	NDD	1.4	1.39	-0.01
635	5e+12	NDD	1.39	1.39	0
713	1e+13	NDD	1.41	1.4	-0.01
732	0	CORRELATION	1.39	1.38	-0.01
742	0	CORRELATION	1.4	1.38	-0.02
879	0	CORRELATION	1.39	1.39	0
880	0	CORRELATION	1.38	1.38	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	1.38	1.39	1.4	0.008165	1.38	1.3825	1.39	0.005	-0.02	-0.0075	0	0.0095743
1e+12	1.38	1.39	1.4	0.008165	1.38	1.3875	1.39	0.005	-0.01	-0.0025	0	0.005
5e+12	1.38	1.395	1.41	0.01291	1.38	1.3925	1.4	0.0095743	-0.01	-0.0025	0	0.005
1e+13	1.39	1.4	1.41	0.008165	1.39	1.395	1.4	0.0057735	-0.01	-0.005	0.01	0.01



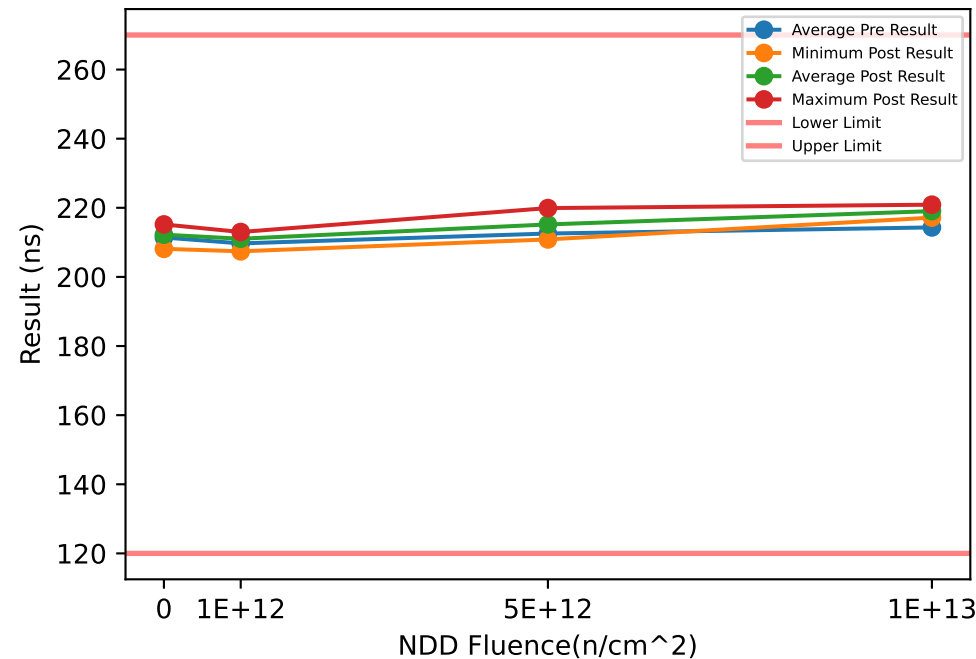
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	100	100	0
229	5e+12	NDD	100	100	0
260	1e+13	NDD	100	100	0
301	1e+12	NDD	100	100	0
362	5e+12	NDD	100	100	0
365	1e+13	NDD	100	100	0
439	1e+12	NDD	100	100	0
514	5e+12	NDD	100	100	0
577	1e+13	NDD	100	100	0
634	1e+12	NDD	100	100	0
635	5e+12	NDD	100	100	0
713	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	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

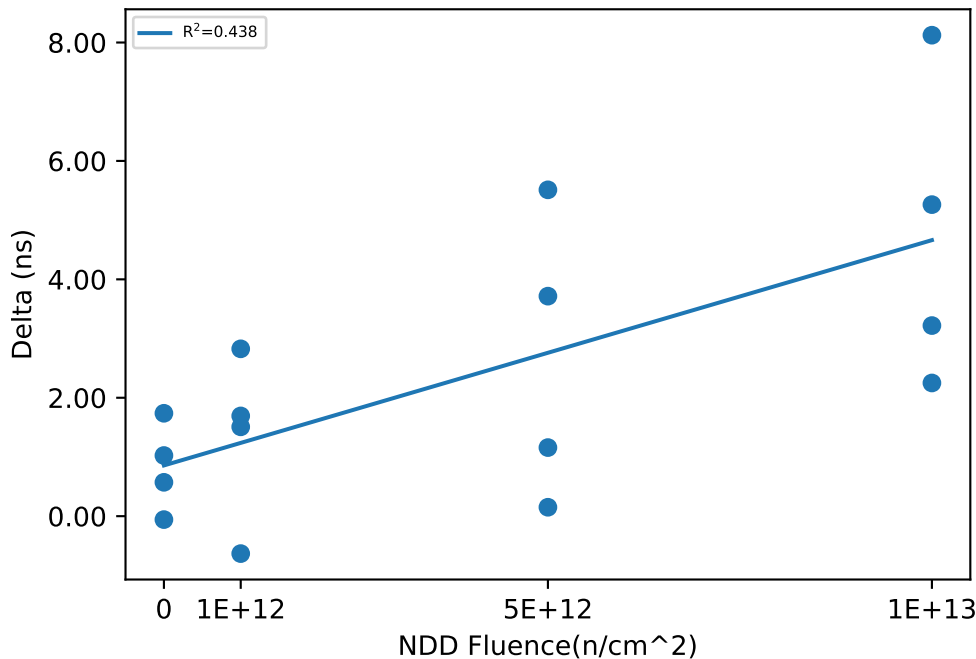
NDD vs Result Stats



Test Results (Lower Limit = 120.0, Upper Limit = 270.0 (ns))

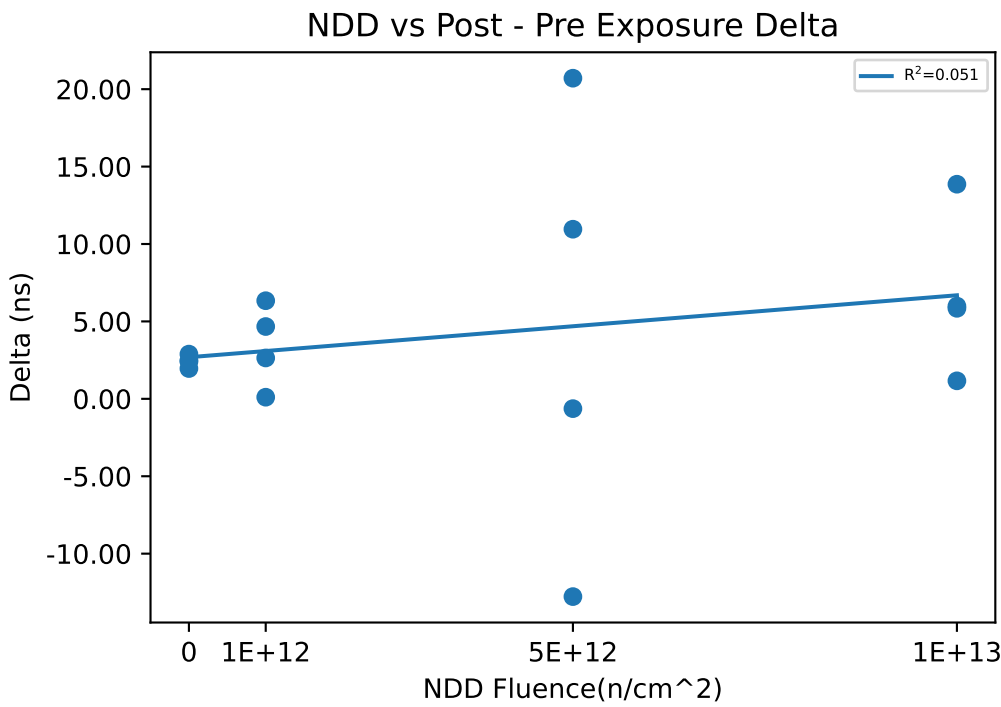
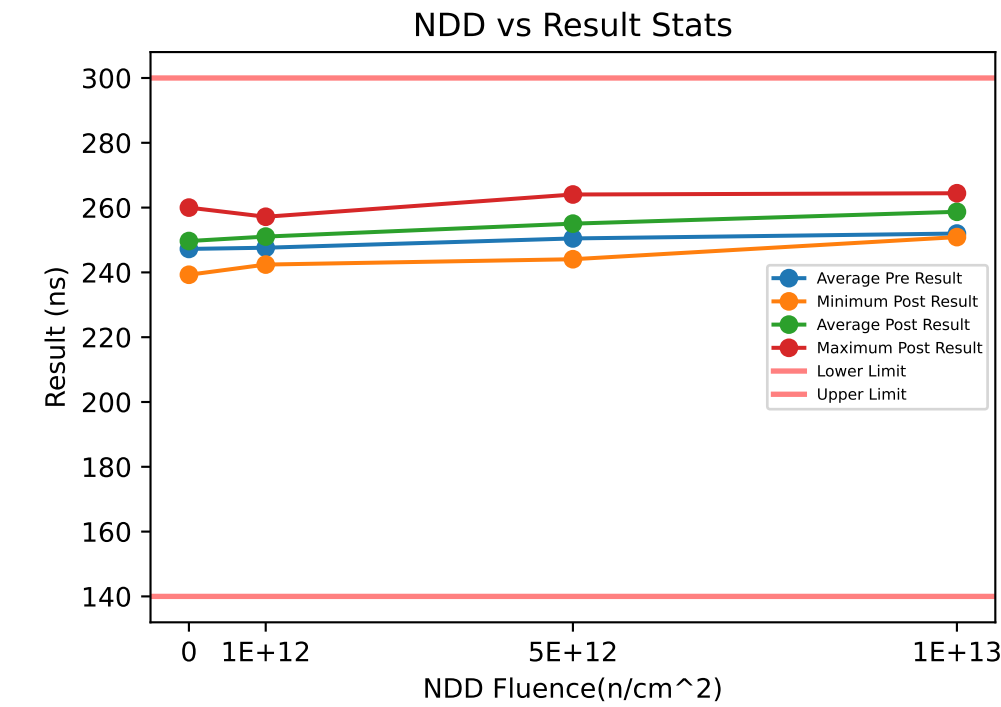
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	210.29	211.8	1.509
229	5e+12	NDD	212.89	213.04	0.1507
260	1e+13	NDD	212.77	220.9	8.1236
301	1e+12	NDD	209.16	211.99	2.8264
362	5e+12	NDD	214.41	219.92	5.5118
365	1e+13	NDD	214.66	219.92	5.2621
439	1e+12	NDD	205.72	207.41	1.693
514	5e+12	NDD	215.78	216.94	1.1586
577	1e+13	NDD	214.91	217.16	2.2498
634	1e+12	NDD	213.63	212.99	-0.6321
635	5e+12	NDD	207.13	210.85	3.7161
713	1e+13	NDD	214.95	218.17	3.2195
732	0	CORRELATION	207.1	208.13	1.0246
742	0	CORRELATION	213.38	215.11	1.7378
879	0	CORRELATION	210.52	210.46	-0.0578
880	0	CORRELATION	214.61	215.19	0.5719

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	207.1	211.4	214.61	3.3396	208.13	212.22	215.19	3.5118	-0.0578	0.81913	1.7378	0.75637
1e+12	205.72	209.7	213.63	3.2619	207.41	211.05	212.99	2.4817	-0.6321	1.3491	2.8264	1.4435
5e+12	207.13	212.55	215.78	3.8007	210.85	215.19	219.92	4.0368	0.1507	2.6343	5.5118	2.4356
1e+13	212.77	214.32	214.95	1.0408	217.16	219.04	220.9	1.6859	2.2498	4.7138	8.1236	2.5969



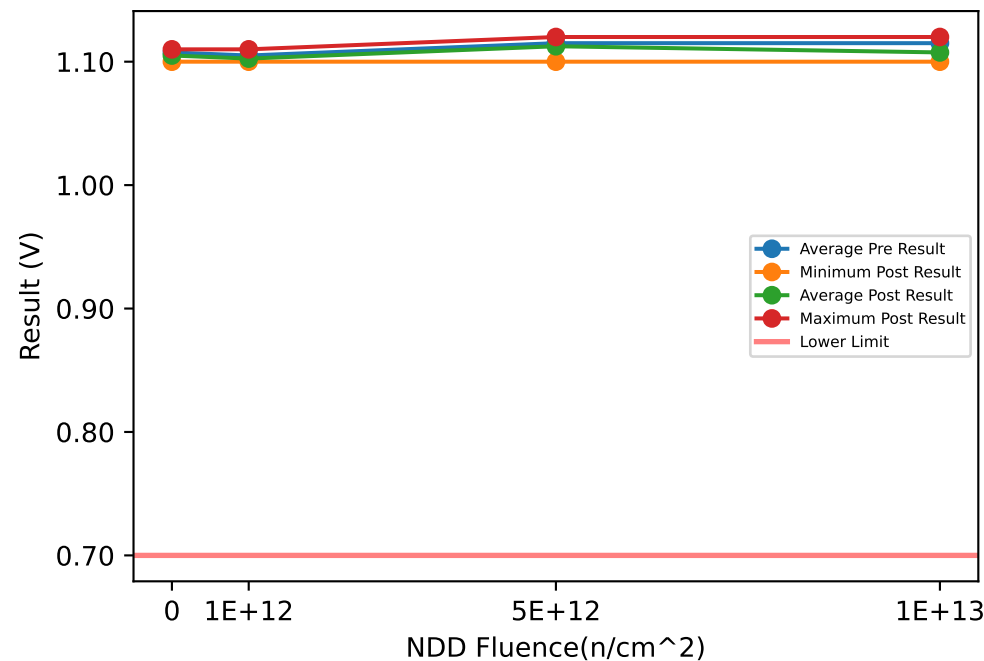
Test Results (Lower Limit = 140.0, Upper Limit = 300.0 (ns))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	239.78	242.42	2.6397
229	5e+12	NDD	256.84	244.06	-12.774
260	1e+13	NDD	249.73	250.89	1.1626
301	1e+12	NDD	250.83	257.17	6.3374
362	5e+12	NDD	243.33	264.04	20.709
365	1e+13	NDD	258.58	264.43	5.8459
439	1e+12	NDD	243.03	247.7	4.6701
514	5e+12	NDD	258.01	257.38	-0.6332
577	1e+13	NDD	243.59	257.45	13.862
634	1e+12	NDD	256.82	256.93	0.1052
635	5e+12	NDD	243.75	254.7	10.955
713	1e+13	NDD	256.06	262.05	5.9889
732	0	CORRELATION	236.38	239.27	2.888
742	0	CORRELATION	257.6	260	2.4051
879	0	CORRELATION	252.09	254.57	2.4807
880	0	CORRELATION	242.91	244.87	1.9574

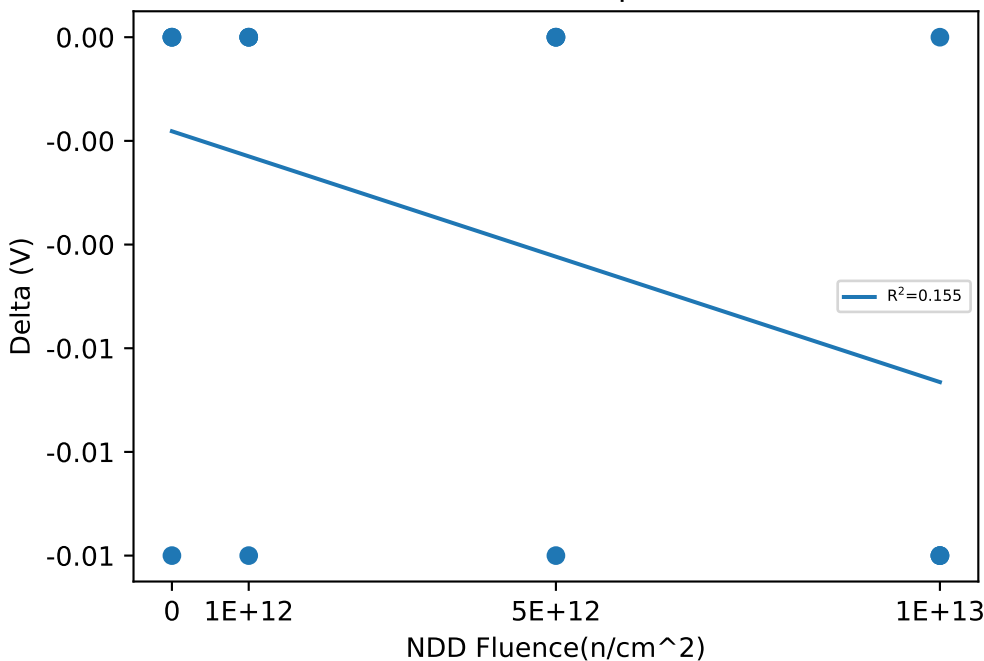
Test Statistics (ns)

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	236.38	247.24	257.6	9.4388	239.27	249.68	260	9.3422	1.9574	2.4328	2.888	0.38135
1e+12	239.78	247.61	256.82	7.6955	242.42	251.05	257.17	7.2529	0.1052	3.4381	6.3374	2.6876
5e+12	243.33	250.48	258.01	8.0328	244.06	255.05	264.04	8.309	-12.774	4.5643	20.709	14.481
1e+13	243.59	251.99	258.58	6.7244	250.89	258.71	264.43	5.9591	1.1626	6.7147	13.862	5.2658

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



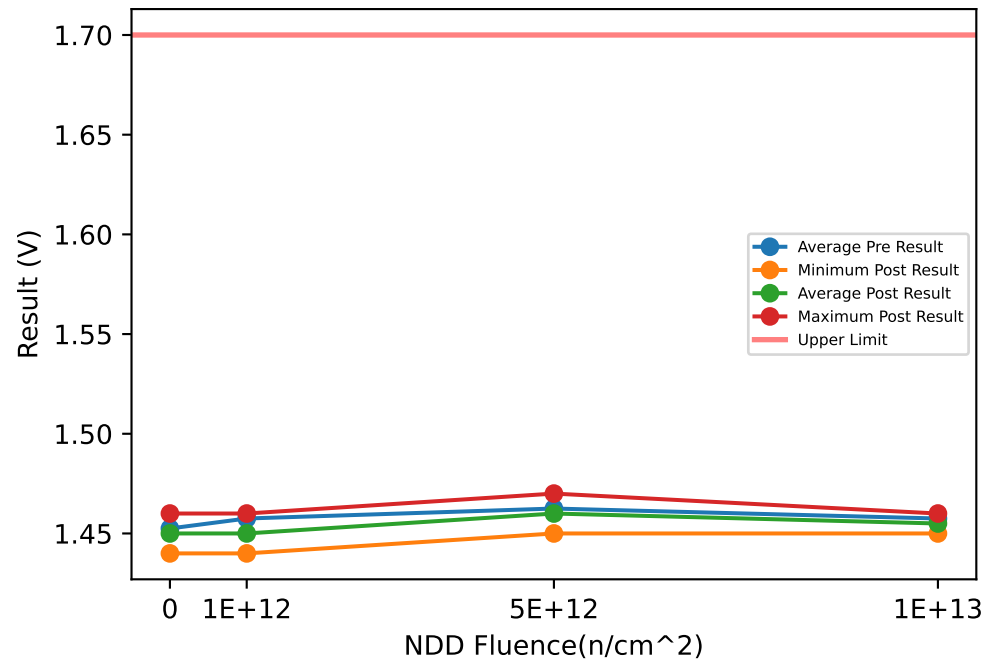
Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.1	1.1	0
229	5e+12	NDD	1.12	1.12	0
260	1e+13	NDD	1.12	1.12	0
301	1e+12	NDD	1.1	1.1	0
362	5e+12	NDD	1.12	1.12	0
365	1e+13	NDD	1.11	1.1	-0.01
439	1e+12	NDD	1.1	1.1	0
514	5e+12	NDD	1.1	1.1	0
577	1e+13	NDD	1.11	1.1	-0.01
634	1e+12	NDD	1.12	1.11	-0.01
635	5e+12	NDD	1.12	1.11	-0.01
713	1e+13	NDD	1.12	1.11	-0.01
732	0	CORRELATION	1.1	1.1	0
742	0	CORRELATION	1.11	1.11	0
879	0	CORRELATION	1.12	1.11	-0.01
880	0	CORRELATION	1.1	1.1	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	1.1	1.1075	1.12	0.0095743	1.1	1.105	1.11	0.0057735	-0.01	-0.0025	0	0.005
1e+12	1.1	1.105	1.12	0.01	1.1	1.1025	1.11	0.005	-0.01	-0.0025	0	0.005
5e+12	1.1	1.115	1.12	0.01	1.1	1.1125	1.12	0.0095743	-0.01	-0.0025	0	0.005
1e+13	1.11	1.115	1.12	0.0057735	1.1	1.1075	1.12	0.0095743	-0.01	-0.0075	0	0.005

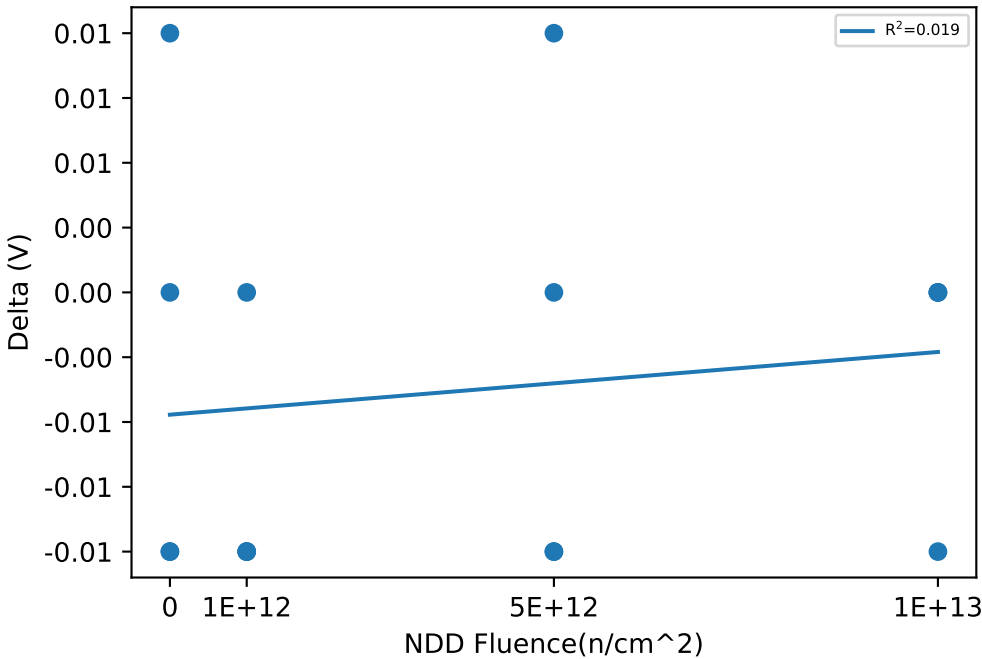
NDD vs Result Stats



Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.46	1.45	-0.01
229	5e+12	NDD	1.47	1.46	-0.01
260	1e+13	NDD	1.47	1.46	-0.01
301	1e+12	NDD	1.46	1.45	-0.01
362	5e+12	NDD	1.46	1.47	0.01
365	1e+13	NDD	1.45	1.45	0
439	1e+12	NDD	1.45	1.44	-0.01
514	5e+12	NDD	1.45	1.45	0
577	1e+13	NDD	1.45	1.45	0
634	1e+12	NDD	1.46	1.46	0
635	5e+12	NDD	1.47	1.46	-0.01
713	1e+13	NDD	1.46	1.46	0
732	0	CORRELATION	1.44	1.44	0
742	0	CORRELATION	1.44	1.45	0.01
879	0	CORRELATION	1.47	1.46	-0.01
880	0	CORRELATION	1.46	1.45	-0.01

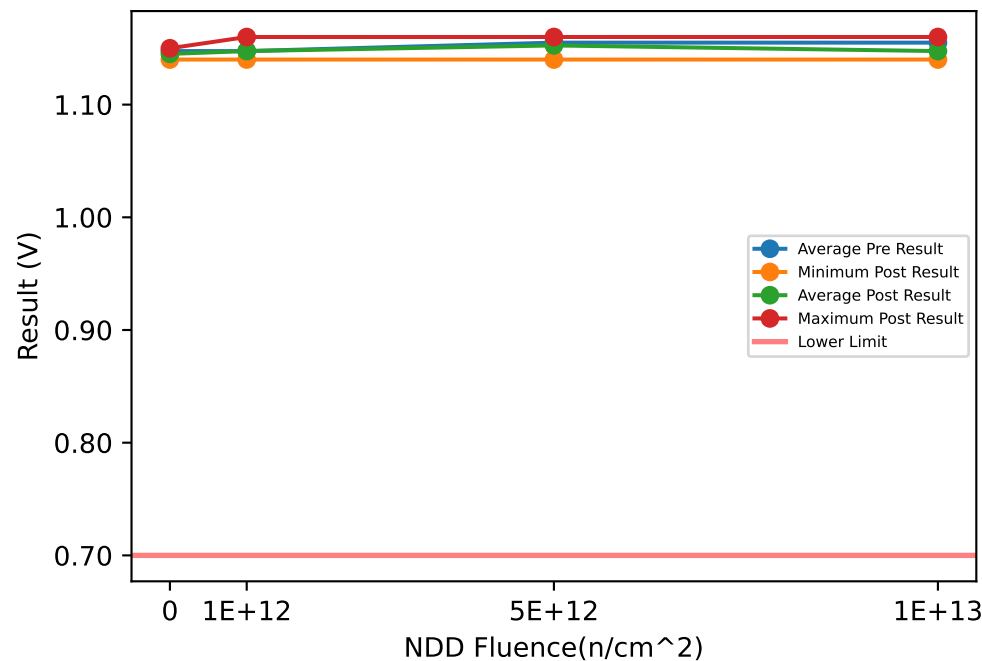
NDD vs Post - Pre Exposure Delta



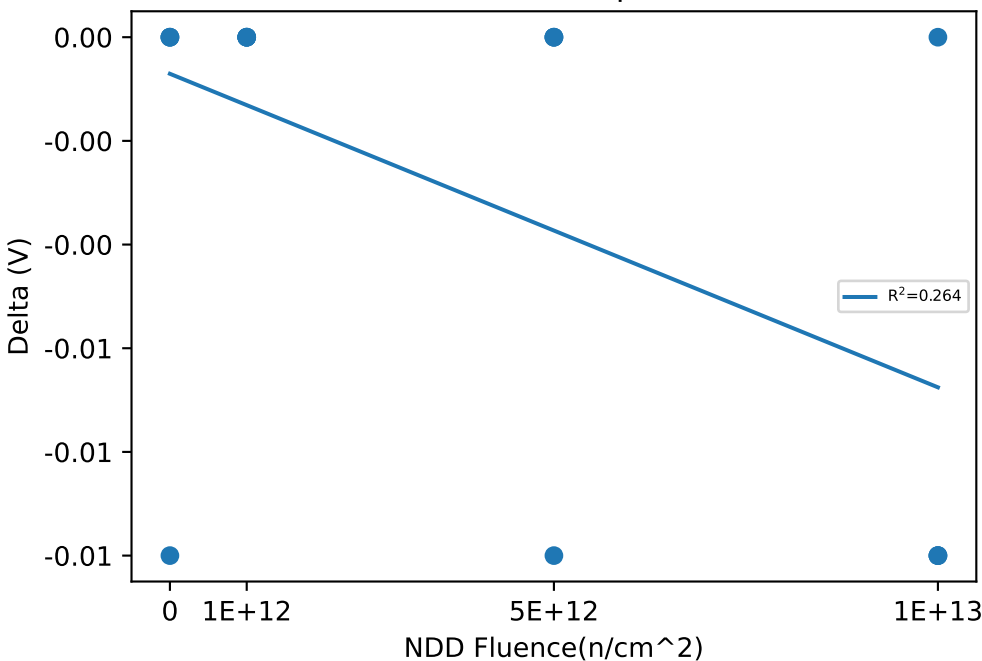
Test Statistics (V)

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	1.44	1.4525	1.47	0.015	1.44	1.45	1.46	0.008165	-0.01	-0.0025	0.01	0.0095743
1e+12	1.45	1.4575	1.46	0.005	1.44	1.45	1.46	0.008165	-0.01	-0.0075	0	0.005
5e+12	1.45	1.4625	1.47	0.0095743	1.45	1.46	1.47	0.008165	-0.01	-0.0025	0.01	0.0095743
1e+13	1.45	1.4575	1.47	0.0095743	1.45	1.455	1.46	0.0057735	-0.01	-0.0025	0	0.005

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



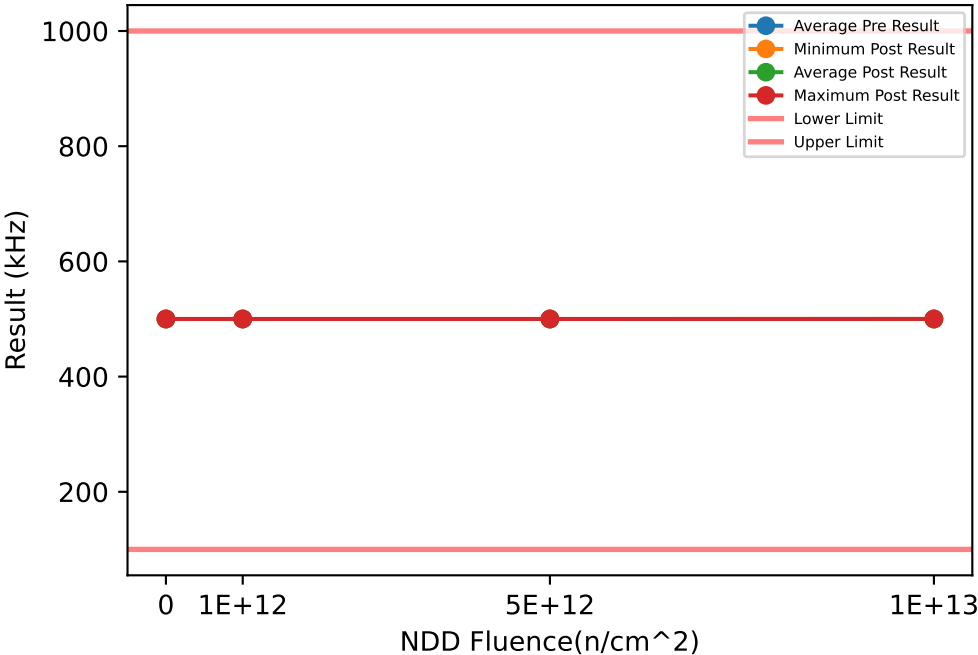
Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.14	1.14	0
229	5e+12	NDD	1.16	1.16	0
260	1e+13	NDD	1.16	1.16	0
301	1e+12	NDD	1.15	1.15	0
362	5e+12	NDD	1.16	1.16	0
365	1e+13	NDD	1.15	1.14	-0.01
439	1e+12	NDD	1.14	1.14	0
514	5e+12	NDD	1.14	1.14	0
577	1e+13	NDD	1.15	1.14	-0.01
634	1e+12	NDD	1.16	1.16	0
635	5e+12	NDD	1.16	1.15	-0.01
713	1e+13	NDD	1.16	1.15	-0.01
732	0	CORRELATION	1.14	1.14	0
742	0	CORRELATION	1.15	1.15	0
879	0	CORRELATION	1.16	1.15	-0.01
880	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	1.14	1.1475	1.16	0.0095743	1.14	1.145	1.15	0.0057735	-0.01	-0.0025	0	0.005
1e+12	1.14	1.1475	1.16	0.0095743	1.14	1.1475	1.16	0.0095743	0	0	0	0
5e+12	1.14	1.155	1.16	0.01	1.14	1.1525	1.16	0.0095743	-0.01	-0.0025	0	0.005
1e+13	1.15	1.155	1.16	0.0057735	1.14	1.1475	1.16	0.0095743	-0.01	-0.0075	0	0.005

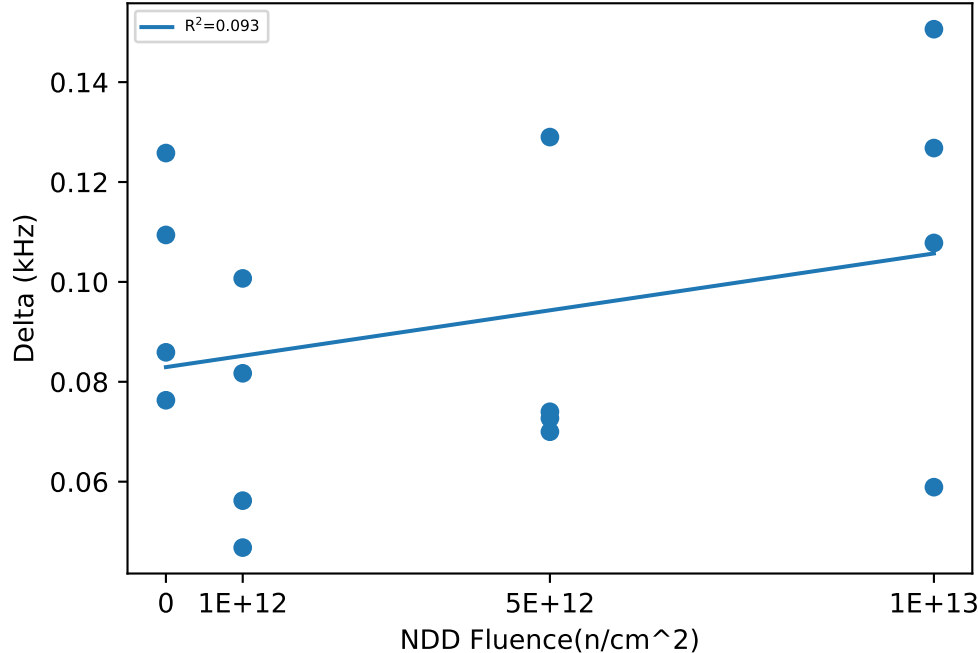
NDD vs Result Stats



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

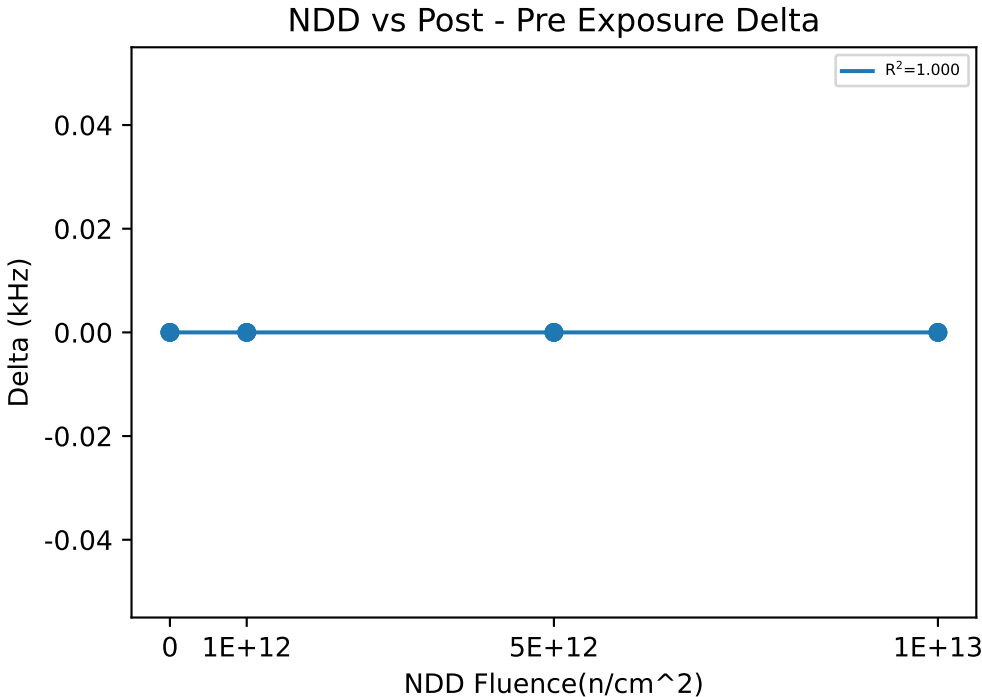
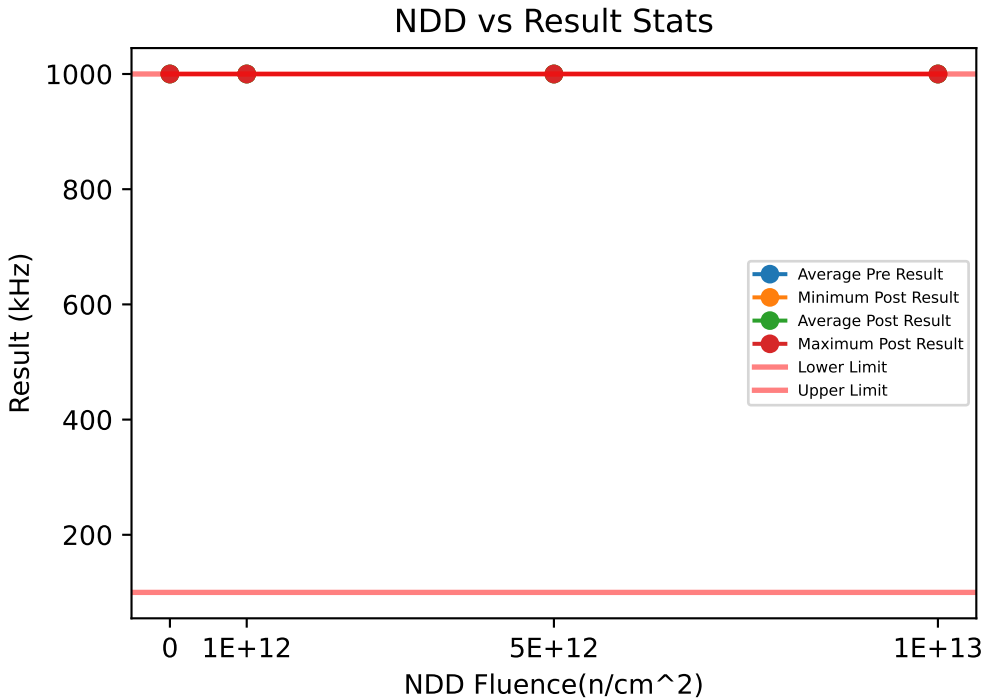
Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	499.93	500.01	0.0817
229	5e+12	NDD	499.94	500.02	0.074
260	1e+13	NDD	499.97	500.03	0.0589
301	1e+12	NDD	499.96	500.06	0.1007
362	5e+12	NDD	499.94	500.06	0.129
365	1e+13	NDD	499.94	500.05	0.1078
439	1e+12	NDD	499.98	500.04	0.0562
514	5e+12	NDD	499.96	500.03	0.0727
577	1e+13	NDD	499.92	500.05	0.1268
634	1e+12	NDD	499.96	500.01	0.0468
635	5e+12	NDD	499.97	500.04	0.07
713	1e+13	NDD	499.95	500.1	0.1506
732	0	CORRELATION	499.92	500.03	0.1094
742	0	CORRELATION	499.94	500.07	0.1258
879	0	CORRELATION	499.96	500.03	0.0763
880	0	CORRELATION	499.93	500.02	0.0859

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	499.92	499.94	499.96	0.014983	500.02	500.04	500.07	0.021066	0.0763	0.09935	0.1258	0.022456
1e+12	499.93	499.96	499.98	0.021696	500.01	500.03	500.06	0.024168	0.0468	0.07135	0.1007	0.0245
5e+12	499.94	499.95	499.97	0.015636	500.02	500.04	500.06	0.019997	0.07	0.086425	0.129	0.028432
1e+13	499.92	499.95	499.97	0.021884	500.03	500.06	500.1	0.030694	0.0589	0.11102	0.1506	0.038912



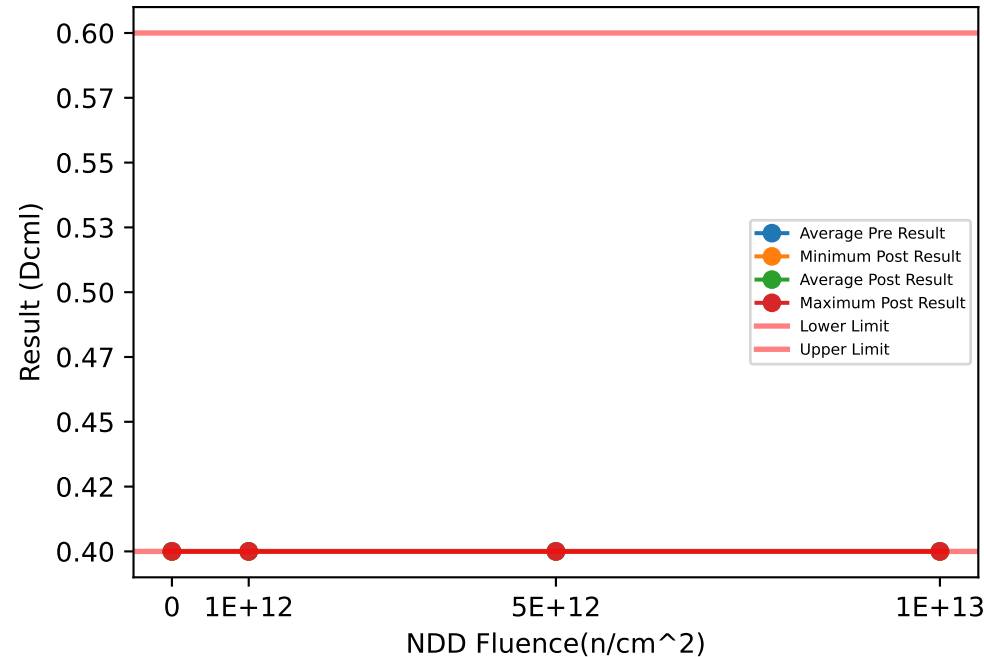
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1000	1000	0
229	5e+12	NDD	1000	1000	0
260	1e+13	NDD	1000	1000	0
301	1e+12	NDD	1000	1000	0
362	5e+12	NDD	1000	1000	0
365	1e+13	NDD	1000	1000	0
439	1e+12	NDD	1000	1000	0
514	5e+12	NDD	1000	1000	0
577	1e+13	NDD	1000	1000	0
634	1e+12	NDD	1000	1000	0
635	5e+12	NDD	1000	1000	0
713	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

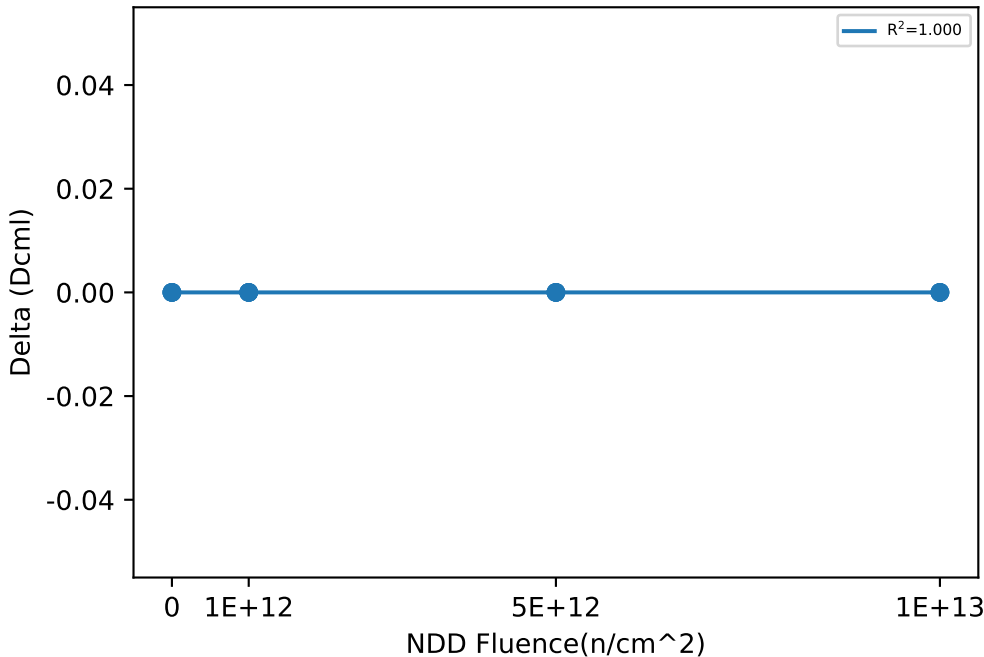
Test Statistics (kHz)

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



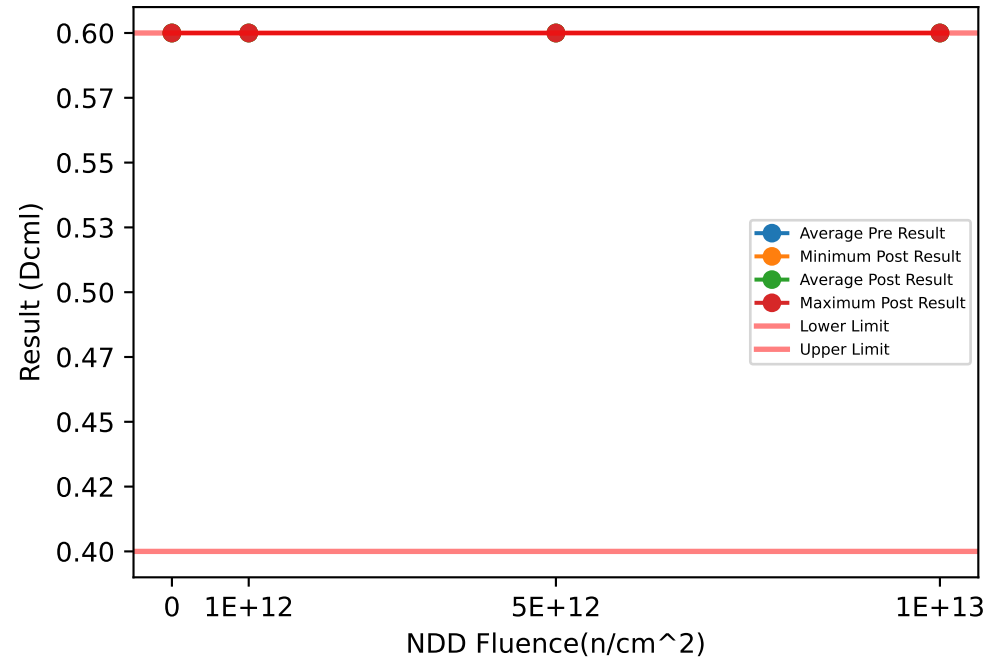
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4	0.4	0
229	5e+12	NDD	0.4	0.4	0
260	1e+13	NDD	0.4	0.4	0
301	1e+12	NDD	0.4	0.4	0
362	5e+12	NDD	0.4	0.4	0
365	1e+13	NDD	0.4	0.4	0
439	1e+12	NDD	0.4	0.4	0
514	5e+12	NDD	0.4	0.4	0
577	1e+13	NDD	0.4	0.4	0
634	1e+12	NDD	0.4	0.4	0
635	5e+12	NDD	0.4	0.4	0
713	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

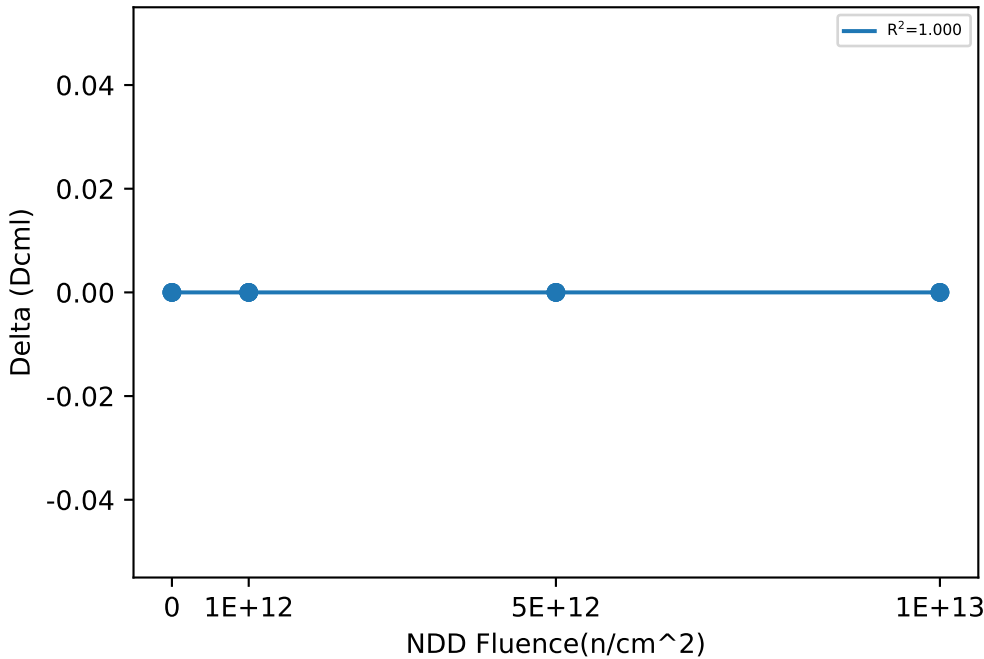
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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



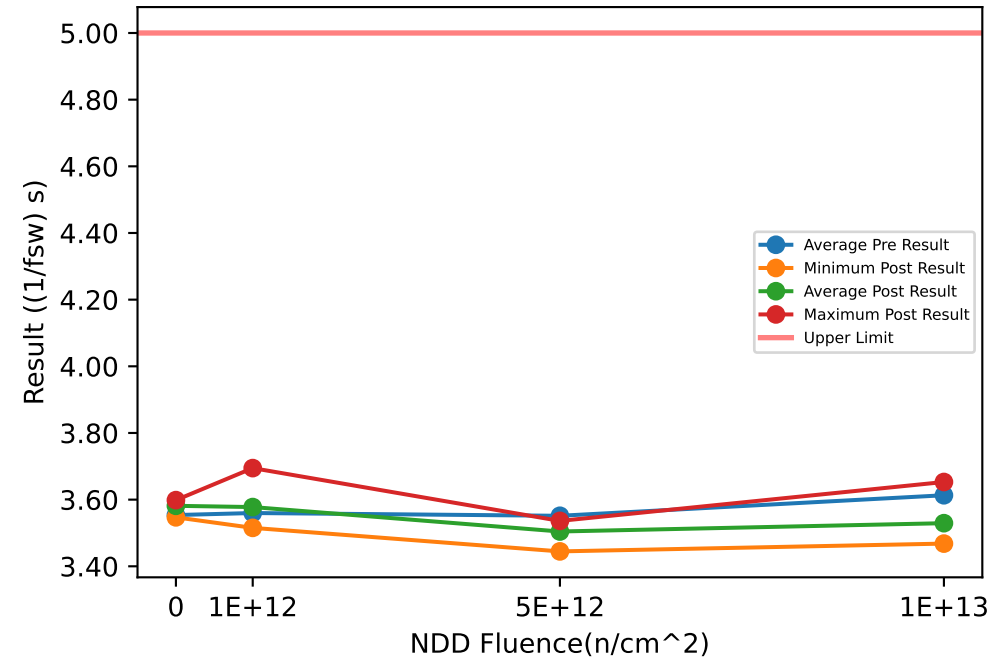
Test Results (Lower Limit = 0.4, Upper Limit = 0.6 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.6	0.6	0
229	5e+12	NDD	0.6	0.6	0
260	1e+13	NDD	0.6	0.6	0
301	1e+12	NDD	0.6	0.6	0
362	5e+12	NDD	0.6	0.6	0
365	1e+13	NDD	0.6	0.6	0
439	1e+12	NDD	0.6	0.6	0
514	5e+12	NDD	0.6	0.6	0
577	1e+13	NDD	0.6	0.6	0
634	1e+12	NDD	0.6	0.6	0
635	5e+12	NDD	0.6	0.6	0
713	1e+13	NDD	0.6	0.6	0
732	0	CORRELATION	0.6	0.6	0
742	0	CORRELATION	0.6	0.6	0
879	0	CORRELATION	0.6	0.6	0
880	0	CORRELATION	0.6	0.6	0

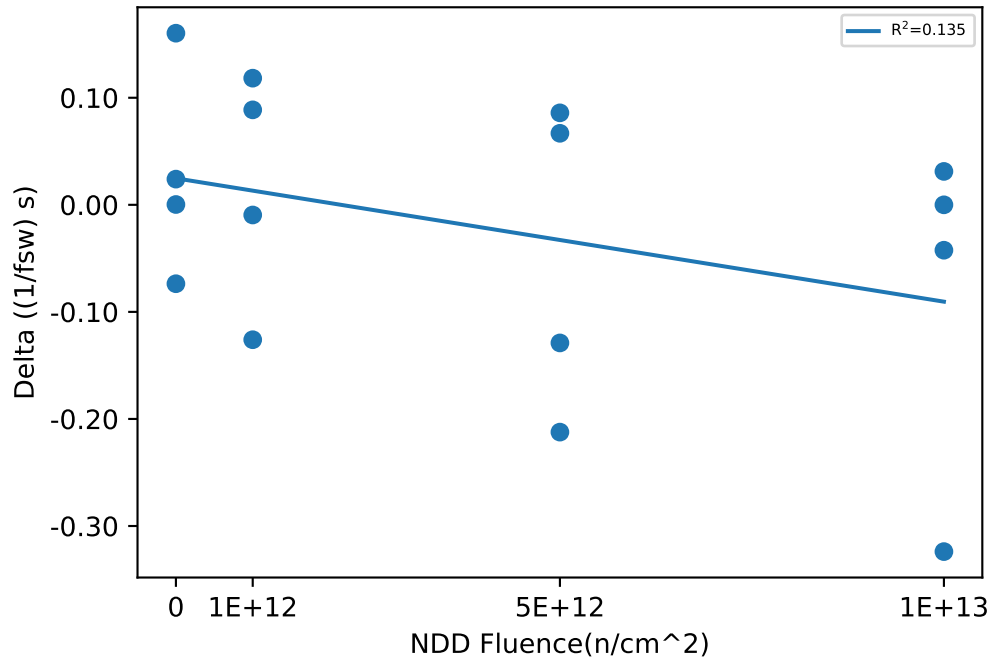
Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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



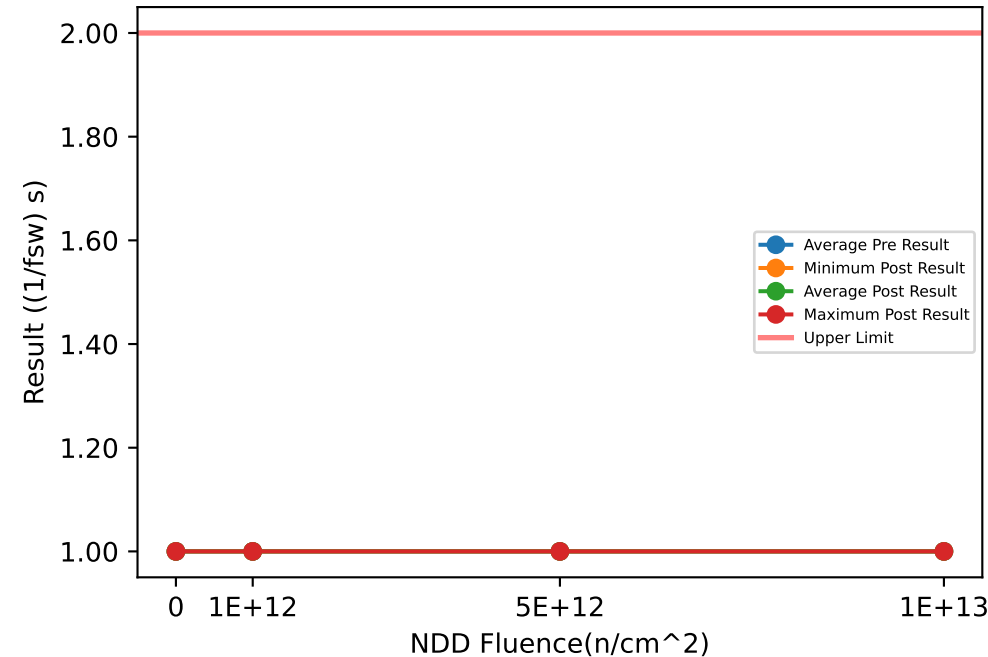
Test Results (Upper Limit = 5.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	3.5248	3.5153	-0.0095
229	5e+12	NDD	3.4317	3.5176	0.0859
260	1e+13	NDD	3.792	3.4681	-0.3239
301	1e+12	NDD	3.4771	3.5658	0.0887
362	5e+12	NDD	3.6652	3.5362	-0.129
365	1e+13	NDD	3.5174	3.475	-0.0424
439	1e+12	NDD	3.5763	3.6946	0.1183
514	5e+12	NDD	3.657	3.4447	-0.2123
577	1e+13	NDD	3.6217	3.6529	0.0312
634	1e+12	NDD	3.6611	3.5351	-0.126
635	5e+12	NDD	3.4523	3.5191	0.0668
713	1e+13	NDD	3.5214	3.5214	0
732	0	CORRELATION	3.5466	3.5469	0.0003
742	0	CORRELATION	3.5605	3.5845	0.024
879	0	CORRELATION	3.6722	3.5985	-0.0737
880	0	CORRELATION	3.4357	3.596	0.1603

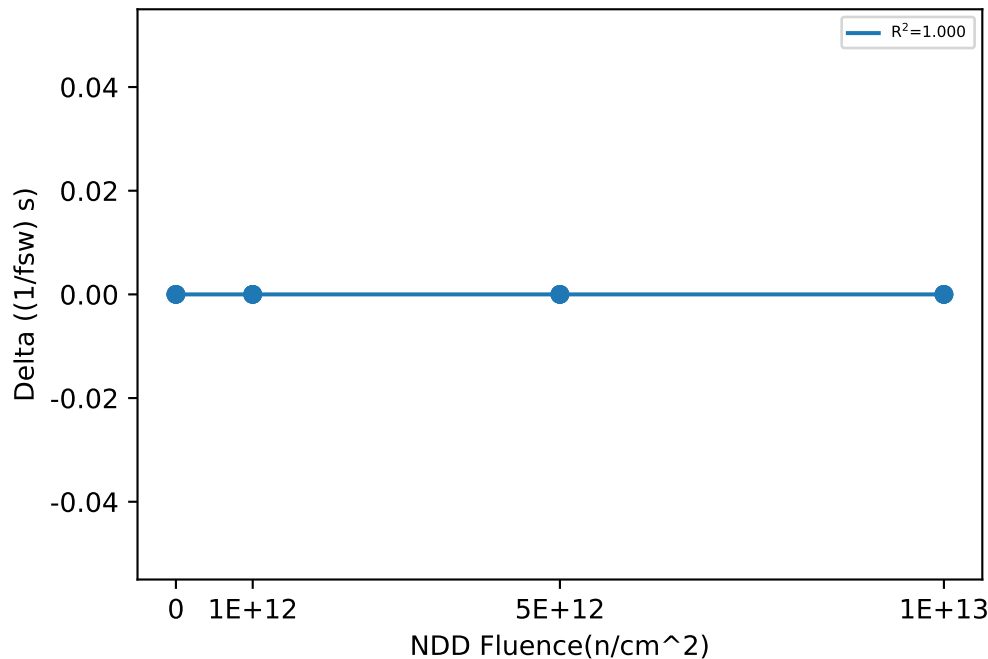
Test Statistics ((1/fsw) s)

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	3.4357	3.5537	3.6722	0.096718	3.5469	3.5815	3.5985	0.023843	-0.0737	0.027725	0.1603	0.097689
1e+12	3.4771	3.5598	3.6611	0.078736	3.5153	3.5777	3.6946	0.080655	-0.126	0.017875	0.1183	0.11038
5e+12	3.4317	3.5516	3.6652	0.12682	3.4447	3.5044	3.5362	0.040684	-0.2123	-0.04715	0.0859	0.14681
1e+13	3.5174	3.6131	3.792	0.12864	3.4681	3.5293	3.6529	0.0857	-0.3239	-0.083775	0.0312	0.1629

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



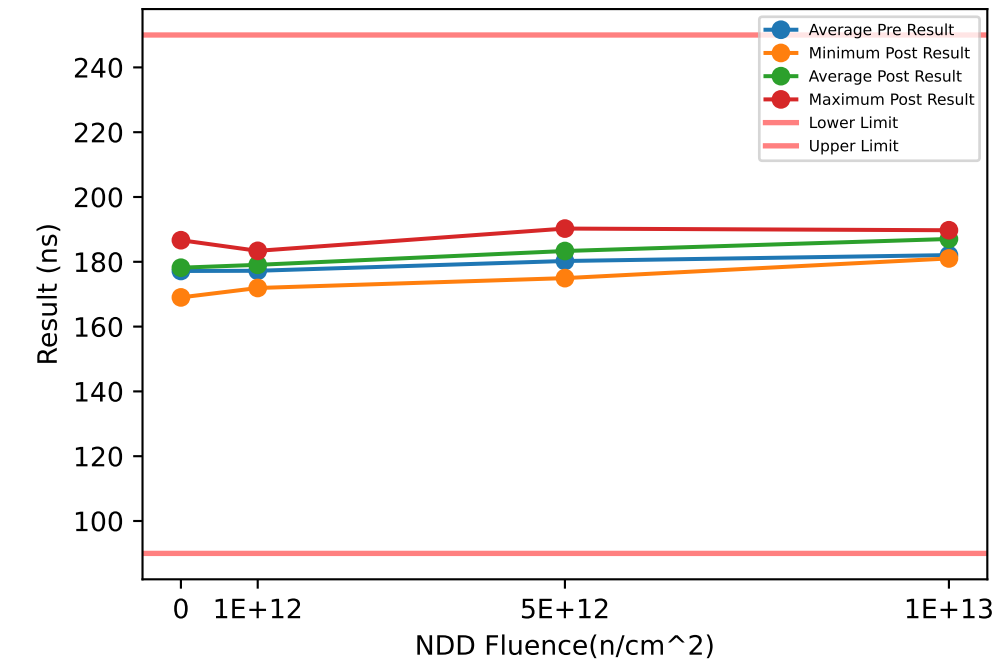
Test Results (Upper Limit = 2.0 ((1/fsw) s))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1	1	0
229	5e+12	NDD	1	1	0
260	1e+13	NDD	1	1	0
301	1e+12	NDD	1	1	0
362	5e+12	NDD	1	1	0
365	1e+13	NDD	1	1	0
439	1e+12	NDD	1	1	0
514	5e+12	NDD	1	1	0
577	1e+13	NDD	1	1	0
634	1e+12	NDD	1	1	0
635	5e+12	NDD	1	1	0
713	1e+13	NDD	1	1	0
732	0	CORRELATION	1	1	0
742	0	CORRELATION	1	1	0
879	0	CORRELATION	1	1	0
880	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

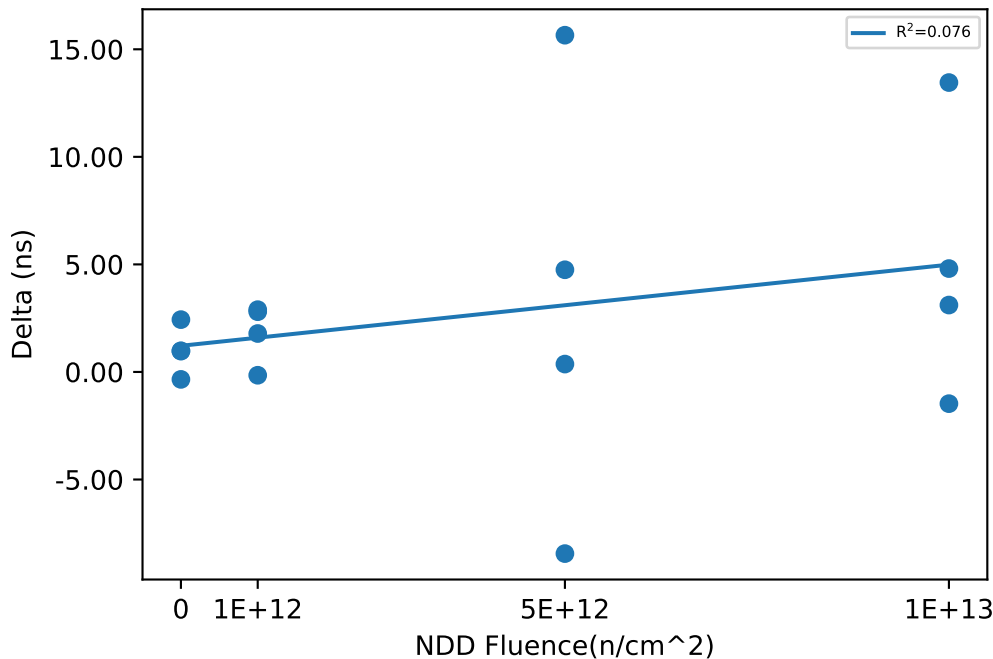
NDD vs Result Stats



Test Results (Lower Limit = 90.0, Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	170.13	171.92	1.7871
229	5e+12	NDD	183.4	174.96	-8.4443
260	1e+13	NDD	182.51	181.03	-1.474
301	1e+12	NDD	179.91	182.71	2.8006
362	5e+12	NDD	174.6	190.26	15.655
365	1e+13	NDD	184.93	189.74	4.8066
439	1e+12	NDD	175.33	178.23	2.8956
514	5e+12	NDD	186.59	186.96	0.3663
577	1e+13	NDD	175.15	188.6	13.454
634	1e+12	NDD	183.54	183.38	-0.1534
635	5e+12	NDD	176.39	181.14	4.7506
713	1e+13	NDD	185.68	188.79	3.1105
732	0	CORRELATION	168.04	169.01	0.9691
742	0	CORRELATION	184.23	186.67	2.4329
879	0	CORRELATION	181.6	181.25	-0.3458
880	0	CORRELATION	174.8	175.78	0.9828

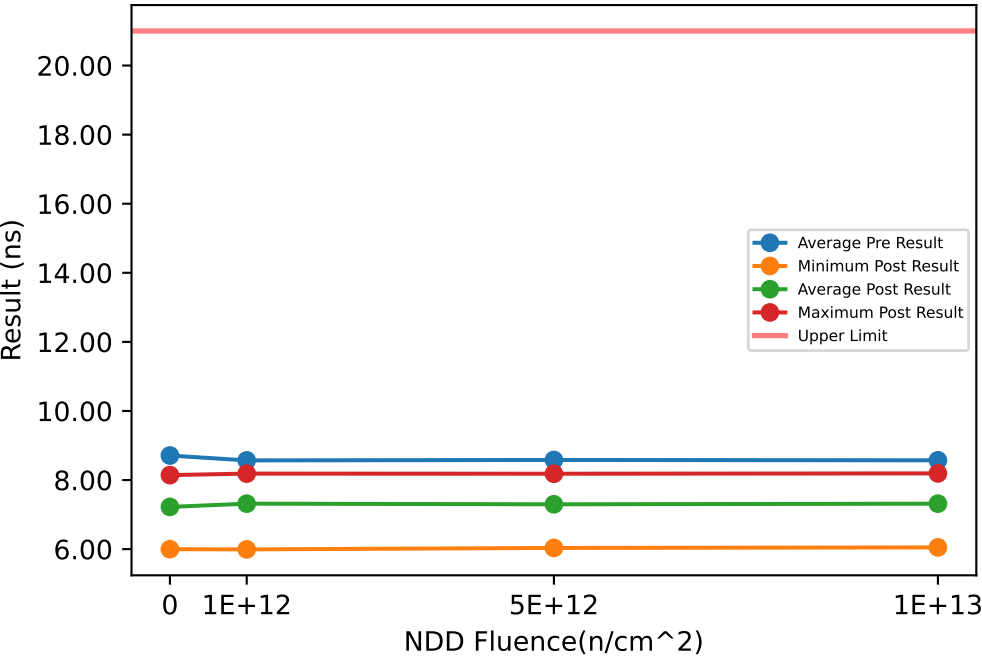
NDD vs Post - Pre Exposure Delta



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	168.04	177.17	184.23	7.2681	169.01	178.18	186.67	7.5566	-0.3458	1.0097	2.4329	1.1351
1e+12	170.13	177.23	183.54	5.8026	171.92	179.06	183.38	5.2846	-0.1534	1.8325	2.8956	1.4158
5e+12	174.6	180.25	186.59	5.6865	174.96	183.33	190.26	6.7334	-8.4443	3.0819	15.655	10.018
1e+13	175.15	182.07	185.68	4.8066	181.03	187.04	189.74	4.0357	-1.474	4.9742	13.454	6.2446

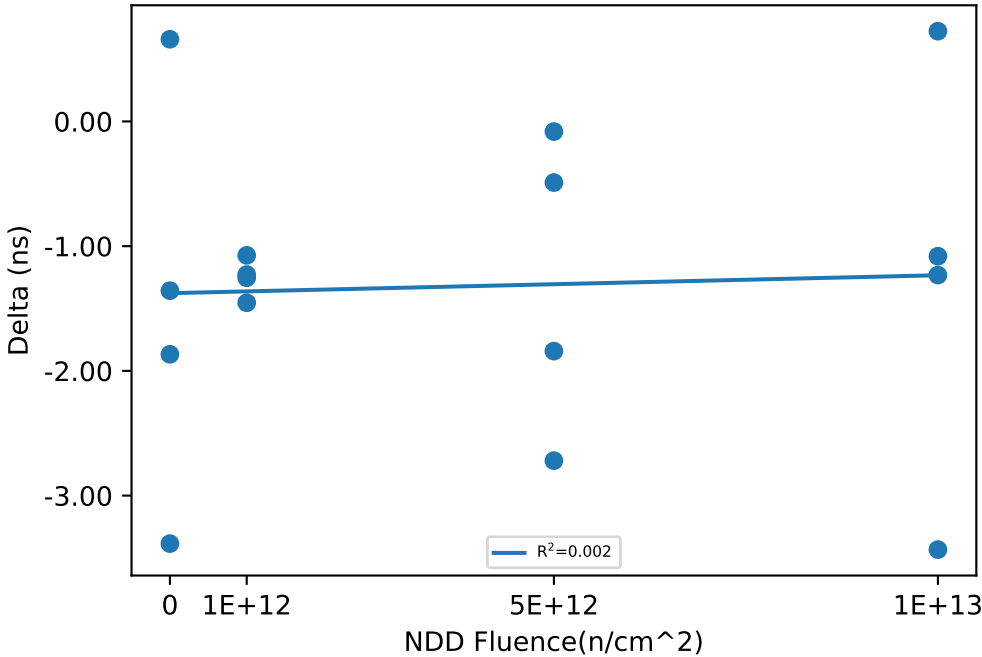
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.6866	7.4589	-1.2277
229	5e+12	NDD	7.496	7.4147	-0.0813
260	1e+13	NDD	8.6292	7.3974	-1.2318
301	1e+12	NDD	9.4397	8.1863	-1.2534
362	5e+12	NDD	8.673	8.183	-0.49
365	1e+13	NDD	7.4692	8.1927	0.7235
439	1e+12	NDD	8.702	7.6283	-1.0737
514	5e+12	NDD	9.4014	7.5598	-1.8416
577	1e+13	NDD	8.7034	7.6229	-1.0805
634	1e+12	NDD	7.446	5.9923	-1.4537
635	5e+12	NDD	8.7542	6.0346	-2.7196
713	1e+13	NDD	9.483	6.0501	-3.4329
732	0	CORRELATION	8.7179	7.3609	-1.357
742	0	CORRELATION	7.4842	8.1431	0.6589
879	0	CORRELATION	9.3831	5.9983	-3.3848
880	0	CORRELATION	9.254	7.3867	-1.8673

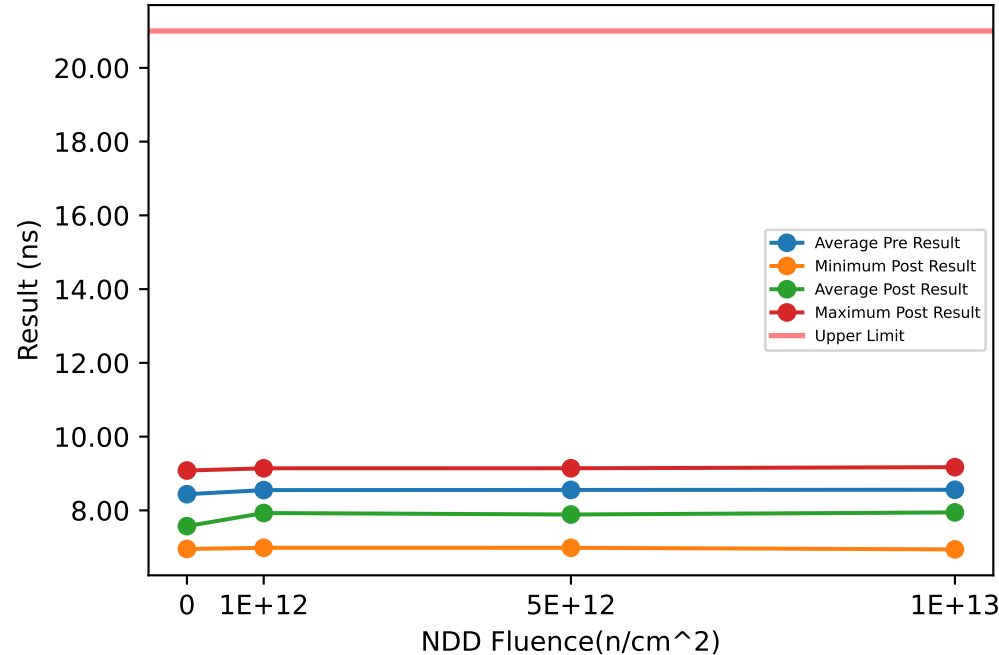
NDD vs Post - Pre Exposure Delta



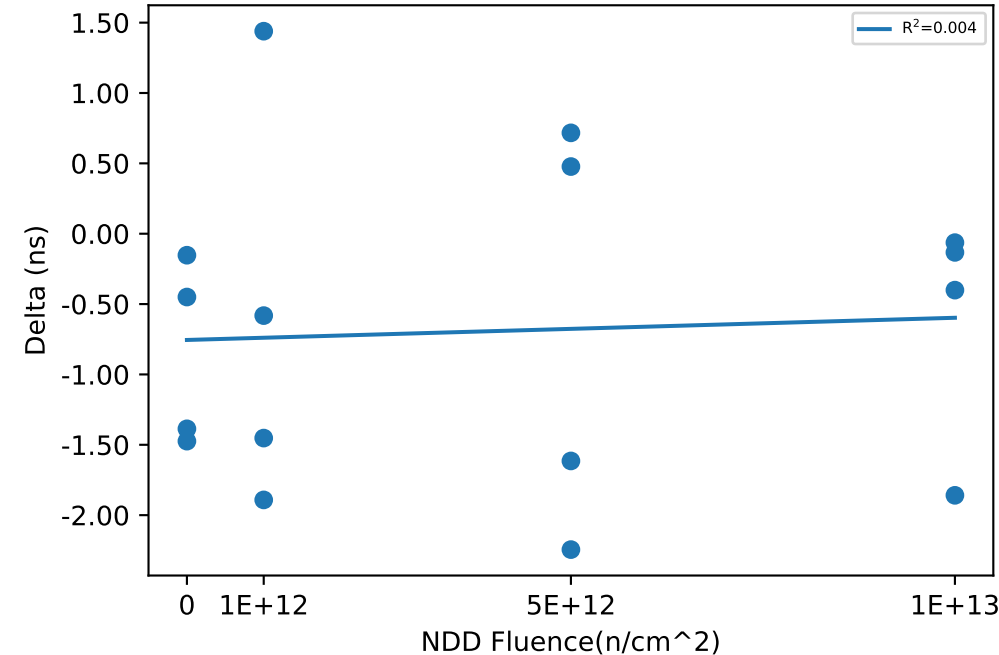
Test Statistics (ns)

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	7.4842	8.7098	9.3831	0.86634	5.9983	7.2223	8.1431	0.89299	-3.3848	-1.4875	0.6589	1.6701
1e+12	7.446	8.5686	9.4397	0.82679	5.9923	7.3164	8.1863	0.93587	-1.4537	-1.2521	-1.0737	0.15606
5e+12	7.496	8.5812	9.4014	0.79346	6.0346	7.298	8.183	0.90583	-2.7196	-1.2831	-0.0813	1.2178
1e+13	7.4692	8.5712	9.483	0.82998	6.0501	7.3158	8.1927	0.90773	-3.4329	-1.2554	0.7235	1.7018

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



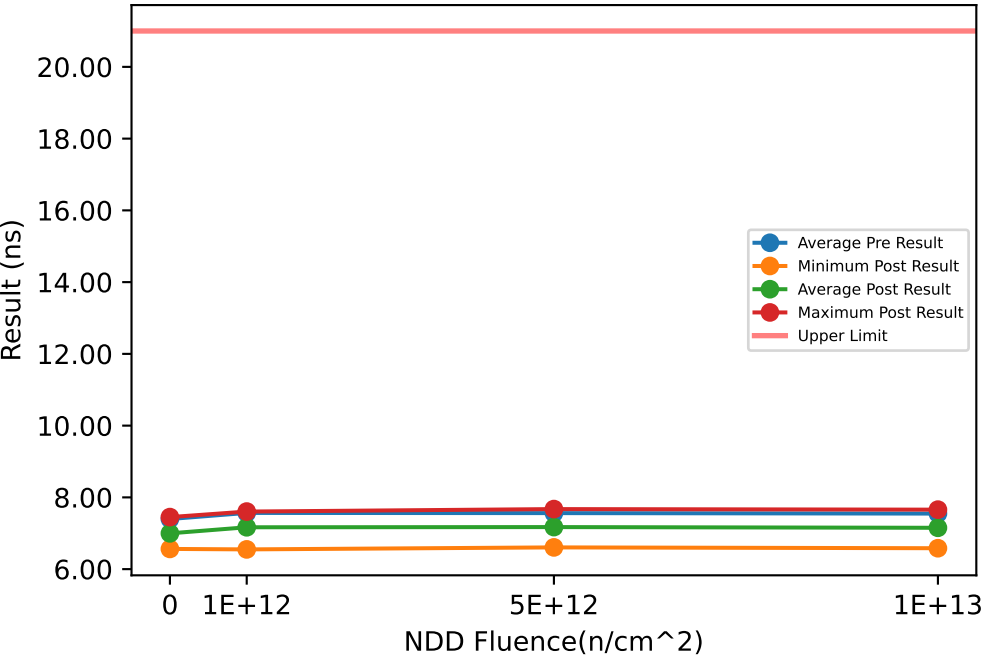
Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	8.4377	6.9854	-1.4523
229	5e+12	NDD	9.2298	6.985	-2.2448
260	1e+13	NDD	8.8011	6.942	-1.8591
301	1e+12	NDD	7.7018	9.141	1.4392
362	5e+12	NDD	8.4253	9.1421	0.7168
365	1e+13	NDD	9.2353	9.1719	-0.0634
439	1e+12	NDD	8.8533	8.2714	-0.5819
514	5e+12	NDD	7.6835	8.1608	0.4773
577	1e+13	NDD	8.4474	8.3147	-0.1327
634	1e+12	NDD	9.2086	7.3169	-1.8917
635	5e+12	NDD	8.8785	7.2637	-1.6148
713	1e+13	NDD	7.7529	7.352	-0.4009
732	0	CORRELATION	8.4265	6.9524	-1.4741
742	0	CORRELATION	9.2329	9.0801	-0.1528
879	0	CORRELATION	7.6825	7.2326	-0.4499
880	0	CORRELATION	8.4116	7.0251	-1.3865

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	7.6825	8.4384	9.2329	0.63337	6.9524	7.5725	9.0801	1.012	-1.4741	-0.86583	-0.1528	0.66395
1e+12	7.7018	8.5503	9.2086	0.64751	6.9854	7.9287	9.141	0.97489	-1.8917	-0.62168	1.4392	1.4778
5e+12	7.6835	8.5543	9.2298	0.66742	6.985	7.8879	9.1421	0.97508	-2.2448	-0.66638	0.7168	1.4846
1e+13	7.7529	8.5592	9.2353	0.6267	6.942	7.9451	9.1719	0.99994	-1.8591	-0.61402	-0.0634	0.84271

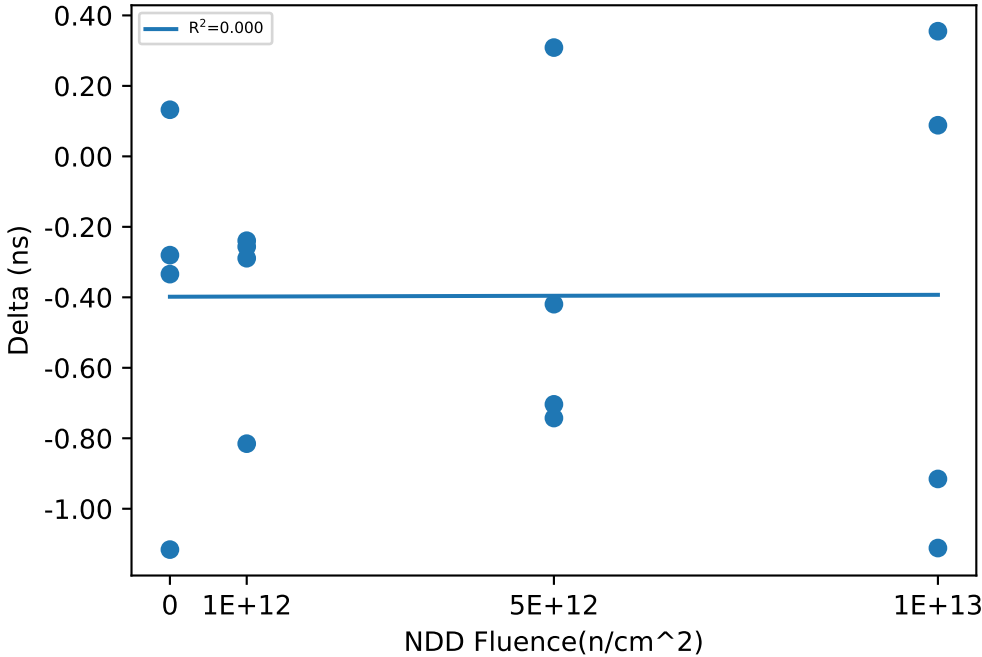
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.3279	7.0388	-0.2891
229	5e+12	NDD	7.7182	6.9756	-0.7426
260	1e+13	NDD	7.8525	6.9371	-0.9154
301	1e+12	NDD	7.3654	6.5501	-0.8153
362	5e+12	NDD	7.3096	6.6059	-0.7037
365	1e+13	NDD	7.6944	6.5829	-1.1115
439	1e+12	NDD	7.861	7.6048	-0.2562
514	5e+12	NDD	7.365	7.6737	0.3087
577	1e+13	NDD	7.3027	7.6579	0.3552
634	1e+12	NDD	7.7124	7.4731	-0.2393
635	5e+12	NDD	7.853	7.4335	-0.4195
713	1e+13	NDD	7.3432	7.4315	0.0883
732	0	CORRELATION	7.3017	7.0214	-0.2803
742	0	CORRELATION	7.6794	6.5635	-1.1159
879	0	CORRELATION	7.3181	7.4504	0.1323
880	0	CORRELATION	7.2896	6.9554	-0.3342

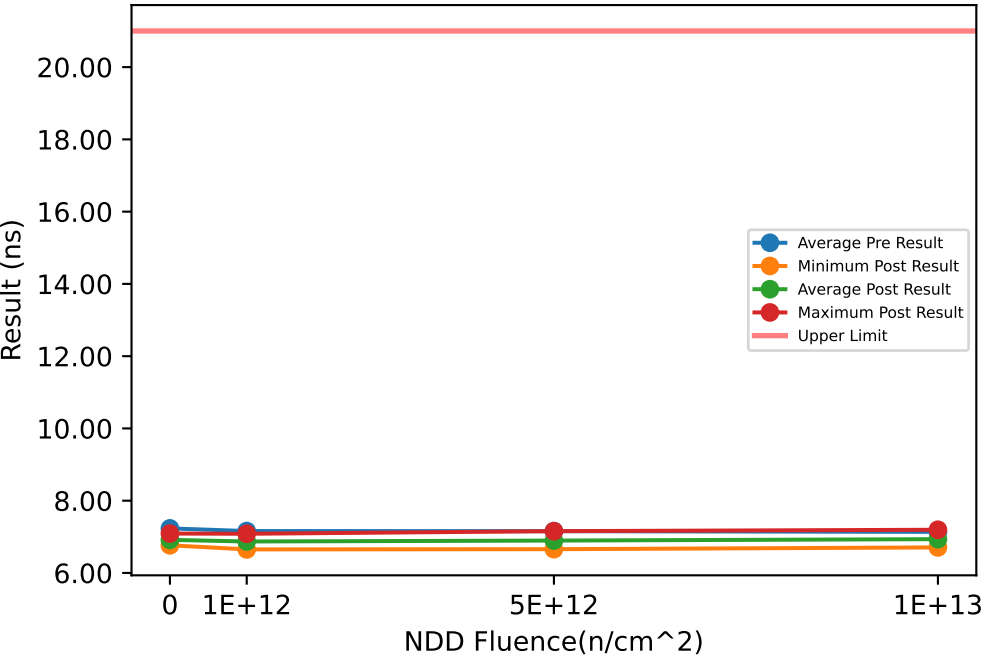
NDD vs Post - Pre Exposure Delta



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	7.2896	7.3972	7.6794	0.1885	6.5635	6.9977	7.4504	0.36323	-1.1159	-0.39953	0.1323	0.52106
1e+12	7.3279	7.5667	7.861	0.26165	6.5501	7.1667	7.6048	0.47692	-0.8153	-0.39997	-0.2393	0.27765
5e+12	7.3096	7.5614	7.853	0.26558	6.6059	7.1722	7.6737	0.47579	-0.7426	-0.38927	0.3087	0.48709
1e+13	7.3027	7.5482	7.8525	0.26849	6.5829	7.1524	7.6579	0.48446	-1.1115	-0.39585	0.3552	0.72585

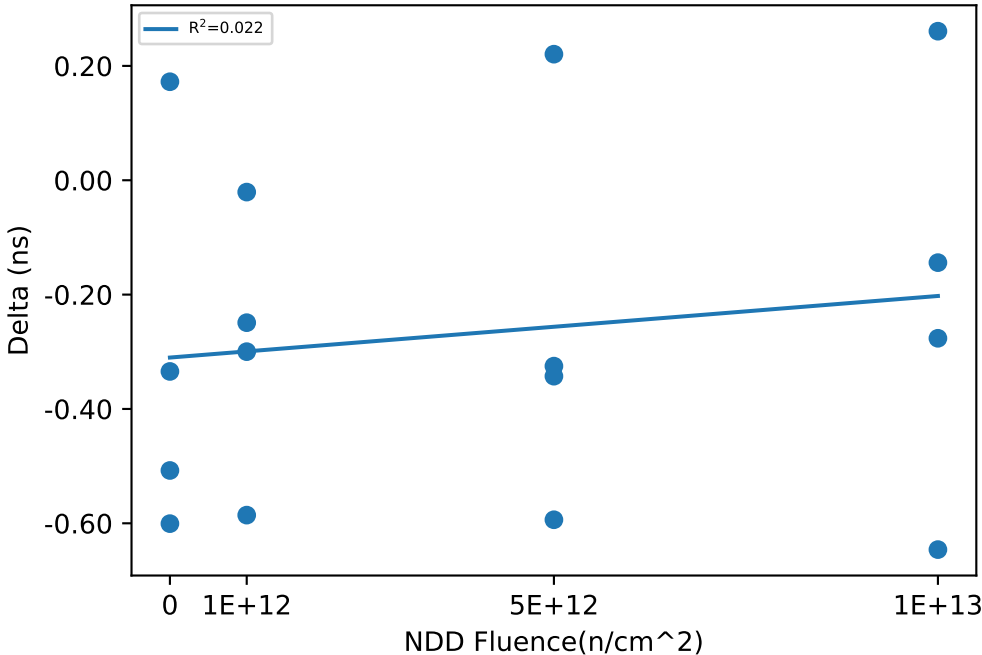
NDD vs Result Stats



Test Results (Upper Limit = 21.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	7.3763	6.7906	-0.5857
229	5e+12	NDD	7.3409	6.7471	-0.5938
260	1e+13	NDD	6.928	6.7839	-0.1441
301	1e+12	NDD	6.9769	6.9562	-0.0207
362	5e+12	NDD	7.3664	7.0237	-0.3427
365	1e+13	NDD	7.332	7.0556	-0.2764
439	1e+12	NDD	6.9516	6.6518	-0.2998
514	5e+12	NDD	6.9828	6.6577	-0.3251
577	1e+13	NDD	7.3524	6.7064	-0.646
634	1e+12	NDD	7.3337	7.0846	-0.2491
635	5e+12	NDD	6.936	7.1565	0.2205
713	1e+13	NDD	6.9346	7.1953	0.2607
732	0	CORRELATION	7.344	6.8364	-0.5076
742	0	CORRELATION	7.3034	6.969	-0.3344
879	0	CORRELATION	6.9184	7.0907	0.1723
880	0	CORRELATION	7.3663	6.7657	-0.6006

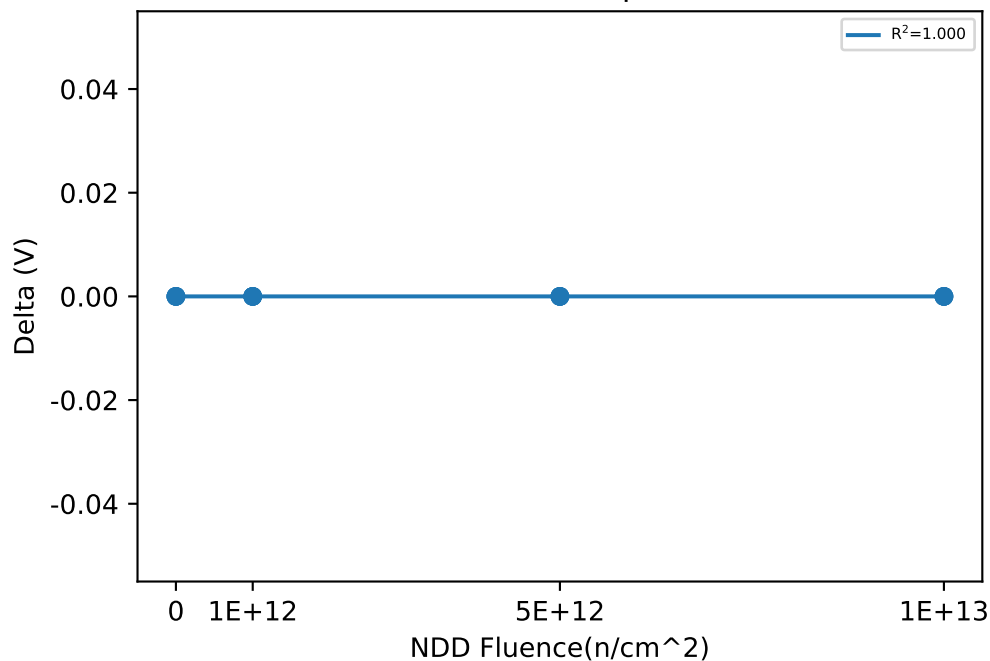
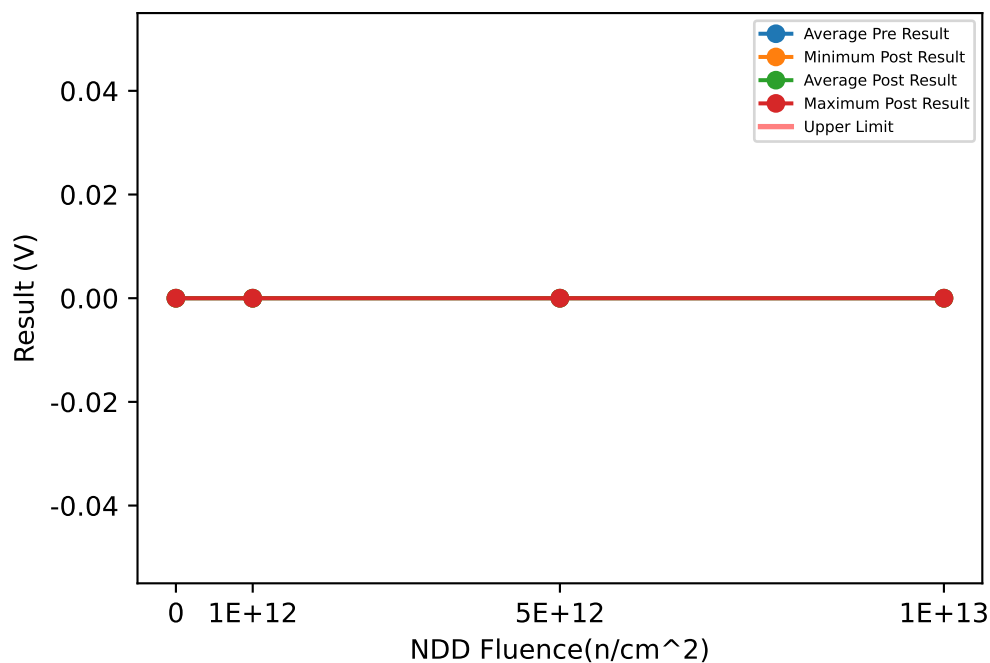
NDD vs Post - Pre Exposure Delta



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	6.9184	7.233	7.3663	0.21136	6.7657	6.9154	7.0907	0.14405	-0.6006	-0.31757	0.1723	0.34471
1e+12	6.9516	7.1596	7.3763	0.2265	6.6518	6.8708	7.0846	0.18921	-0.5857	-0.28882	-0.0207	0.23218
5e+12	6.936	7.1565	7.3664	0.22866	6.6577	6.8963	7.1565	0.23318	-0.5938	-0.26028	0.2205	0.34321
1e+13	6.928	7.1368	7.3524	0.23739	6.7064	6.9353	7.1953	0.22905	-0.646	-0.20145	0.2607	0.37422

Device Test: 24.68 LEVELS|VOH/SYNC1/5//511k/4011/@SYNC_OUT_HIGH



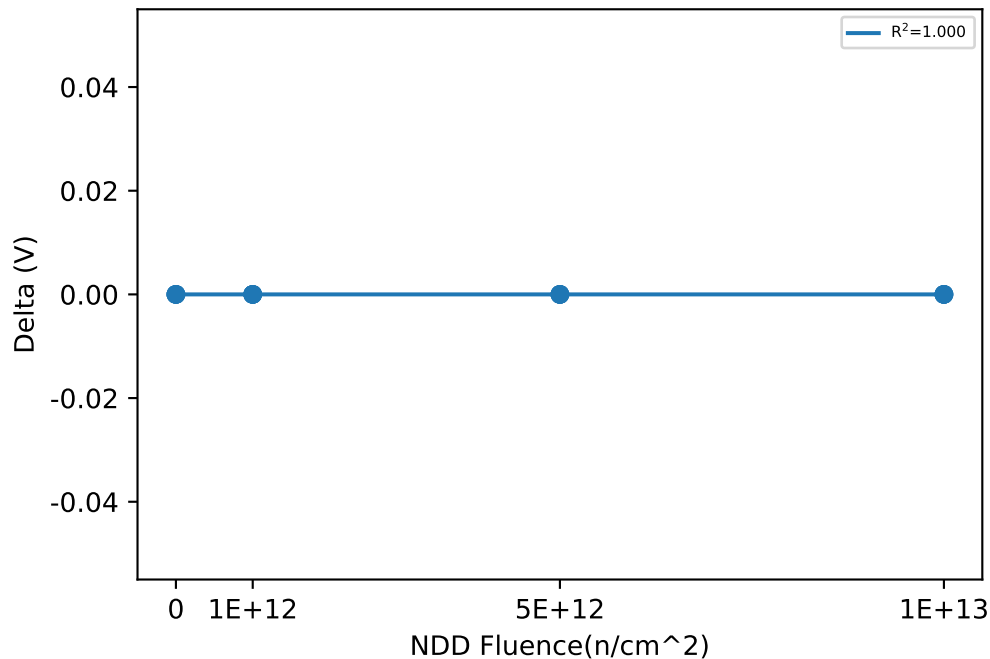
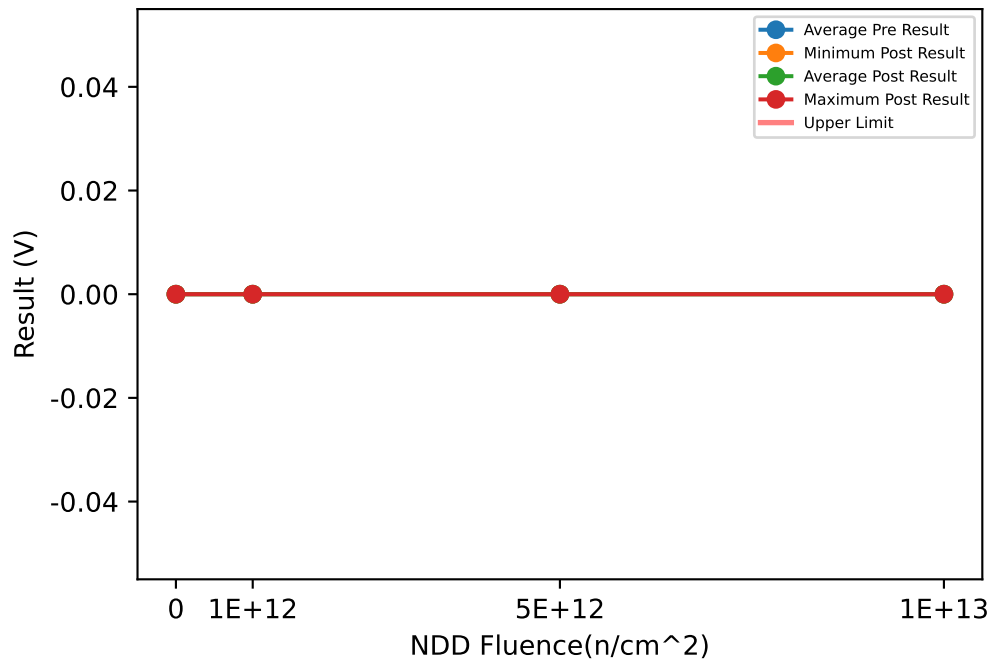
Test Results (No Limits Specified (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0	0	0
229	5e+12	NDD	0	0	0
260	1e+13	NDD	0	0	0
301	1e+12	NDD	0	0	0
362	5e+12	NDD	0	0	0
365	1e+13	NDD	0	0	0
439	1e+12	NDD	0	0	0
514	5e+12	NDD	0	0	0
577	1e+13	NDD	0	0	0
634	1e+12	NDD	0	0	0
635	5e+12	NDD	0	0	0
713	1e+13	NDD	0	0	0
732	0	CORRELATION	0	0	0
742	0	CORRELATION	0	0	0
879	0	CORRELATION	0	0	0
880	0	CORRELATION	0	0	0

Test Statistics (V)

[illegible]

Device Test: 24.69 LEVELS|VOH/SYNC2/5//511k//@SYNC_OUT_HIGH



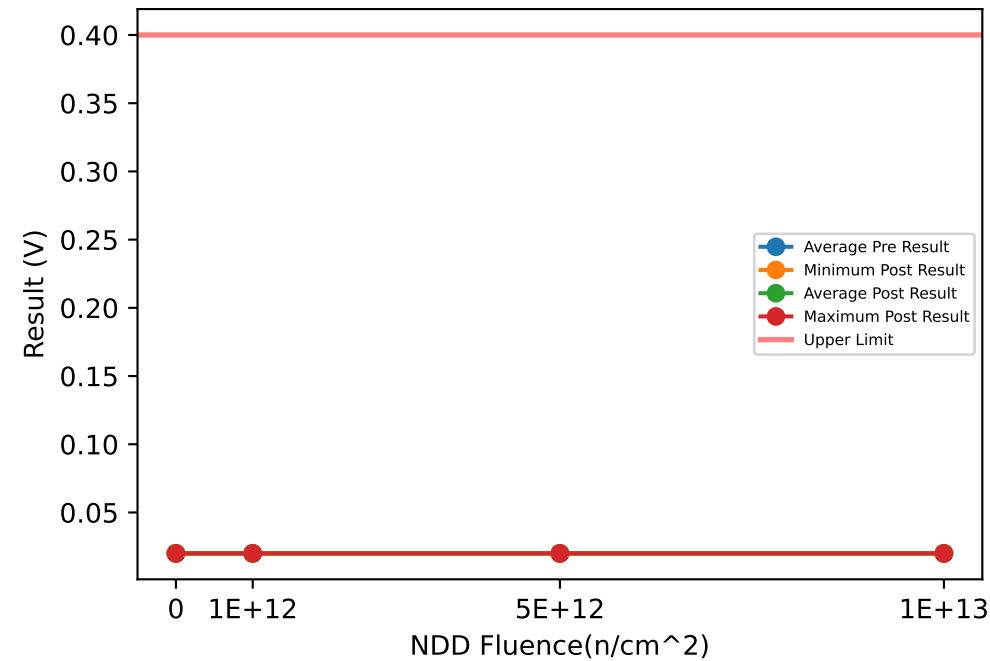
Test Results (No Limits Specified (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0	0	0
229	5e+12	NDD	0	0	0
260	1e+13	NDD	0	0	0
301	1e+12	NDD	0	0	0
362	5e+12	NDD	0	0	0
365	1e+13	NDD	0	0	0
439	1e+12	NDD	0	0	0
514	5e+12	NDD	0	0	0
577	1e+13	NDD	0	0	0
634	1e+12	NDD	0	0	0
635	5e+12	NDD	0	0	0
713	1e+13	NDD	0	0	0
732	0	CORRELATION	0	0	0
742	0	CORRELATION	0	0	0
879	0	CORRELATION	0	0	0
880	0	CORRELATION	0	0	0

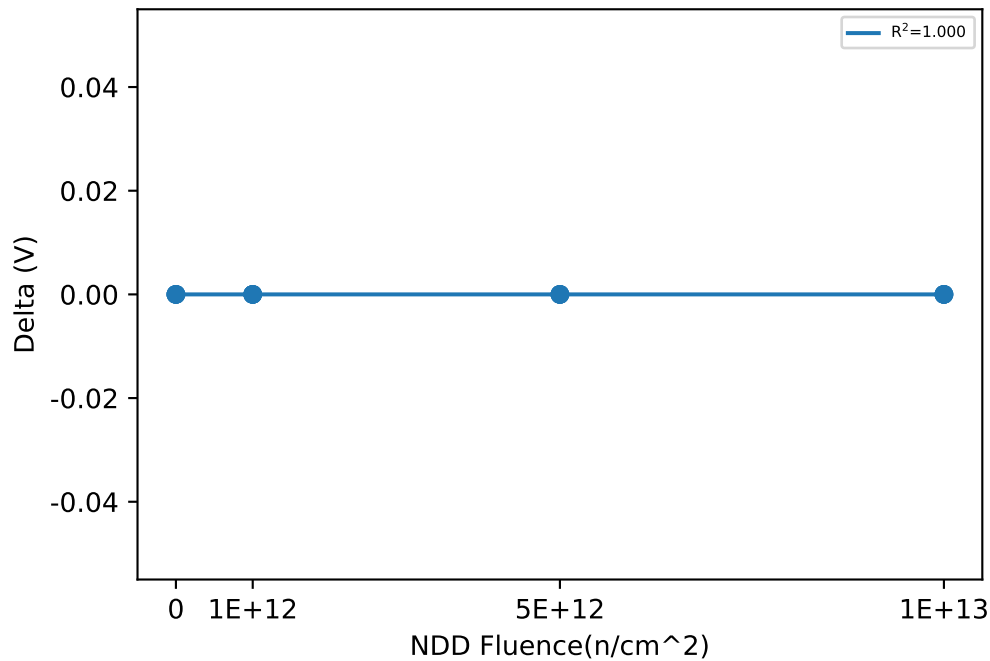
Test Statistics (V)

[illegible]

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



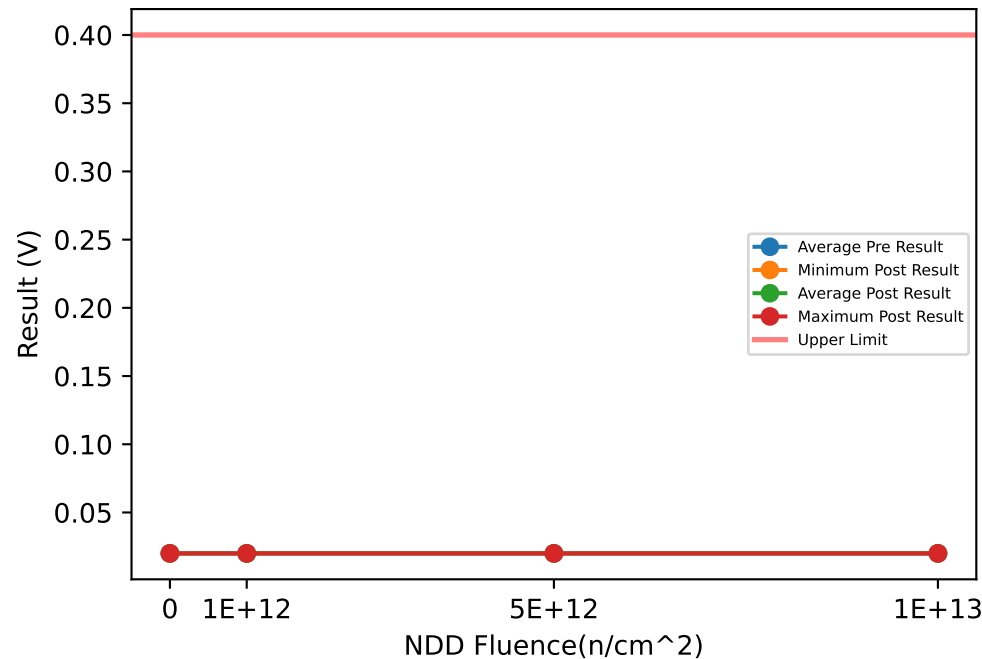
Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	0

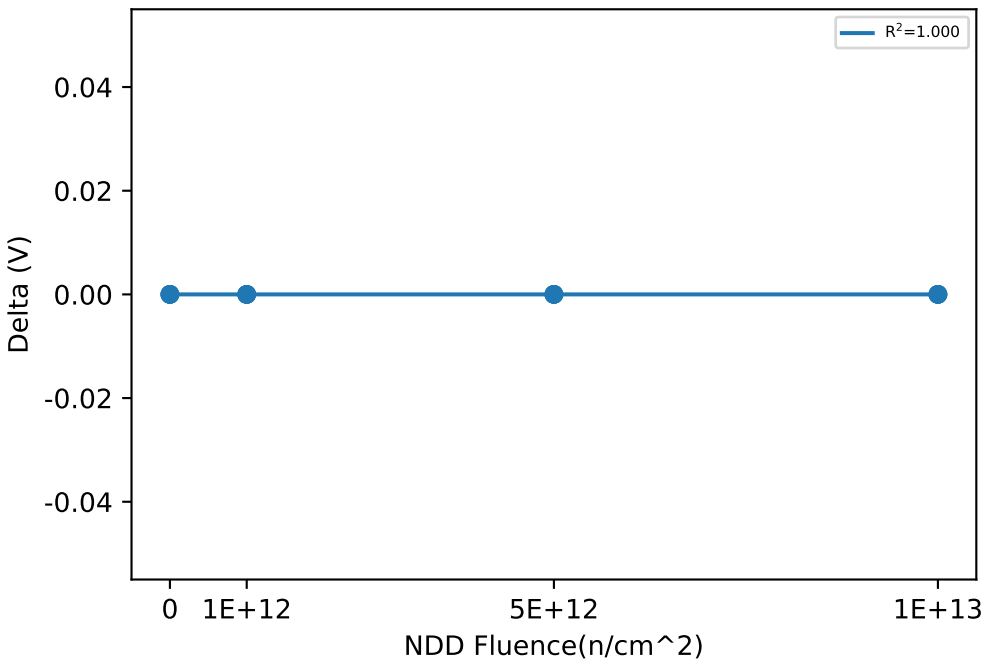
Test Statistics (V)

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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



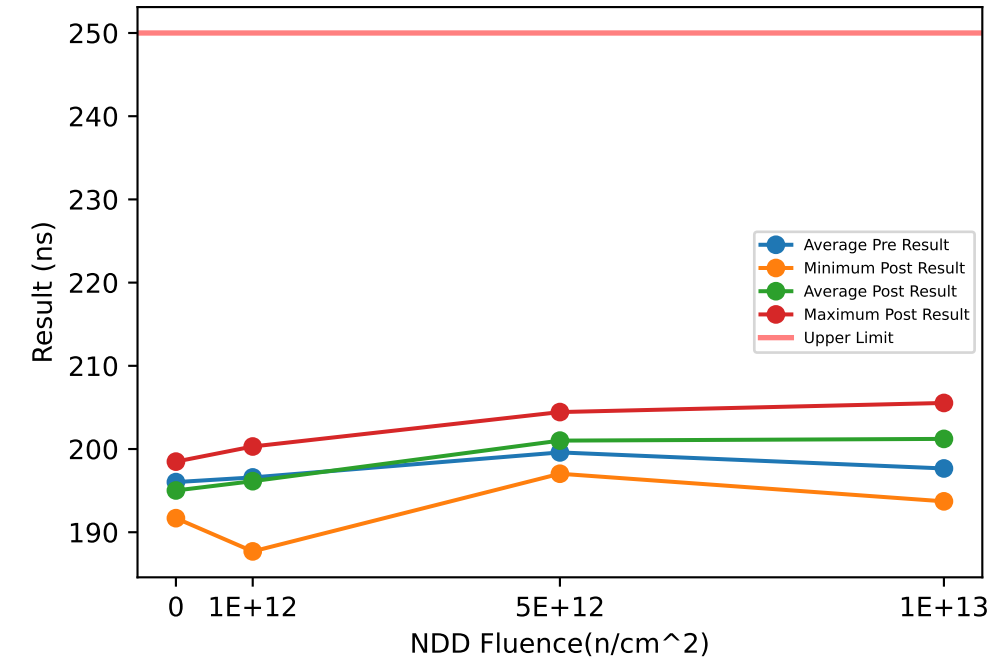
Test Results (Upper Limit = 0.4 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.02	0.02	0
229	5e+12	NDD	0.02	0.02	0
260	1e+13	NDD	0.02	0.02	0
301	1e+12	NDD	0.02	0.02	0
362	5e+12	NDD	0.02	0.02	0
365	1e+13	NDD	0.02	0.02	0
439	1e+12	NDD	0.02	0.02	0
514	5e+12	NDD	0.02	0.02	0
577	1e+13	NDD	0.02	0.02	0
634	1e+12	NDD	0.02	0.02	0
635	5e+12	NDD	0.02	0.02	0
713	1e+13	NDD	0.02	0.02	0
732	0	CORRELATION	0.02	0.02	0
742	0	CORRELATION	0.02	0.02	0
879	0	CORRELATION	0.02	0.02	0
880	0	CORRELATION	0.02	0.02	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	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
5e+12	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0
1e+13	0.02	0.02	0.02	0	0.02	0.02	0.02	0	0	0	0	0

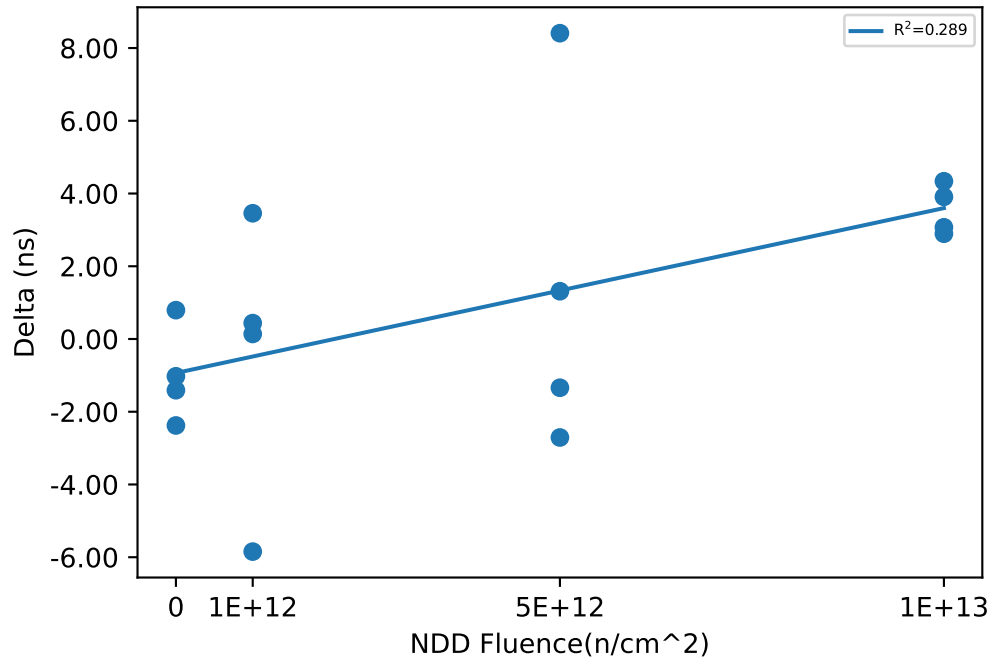
NDD vs Result Stats



Test Results (Upper Limit = 250.0 (ns))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	199.87	200.3	0.437
229	5e+12	NDD	195.7	204.1	8.4079
260	1e+13	NDD	201.2	205.54	4.337
301	1e+12	NDD	193.54	187.7	-5.8455
362	5e+12	NDD	199.74	197.03	-2.7079
365	1e+13	NDD	190.64	193.71	3.0714
439	1e+12	NDD	197.38	197.52	0.1388
514	5e+12	NDD	203.13	204.44	1.3138
577	1e+13	NDD	199.49	203.4	3.9085
634	1e+12	NDD	195.56	199.02	3.4568
635	5e+12	NDD	199.81	198.47	-1.3402
713	1e+13	NDD	199.32	202.22	2.8946
732	0	CORRELATION	199.9	198.49	-1.4087
742	0	CORRELATION	192.71	191.69	-1.0253
879	0	CORRELATION	197.38	195.01	-2.3775
880	0	CORRELATION	194.11	194.9	0.7932

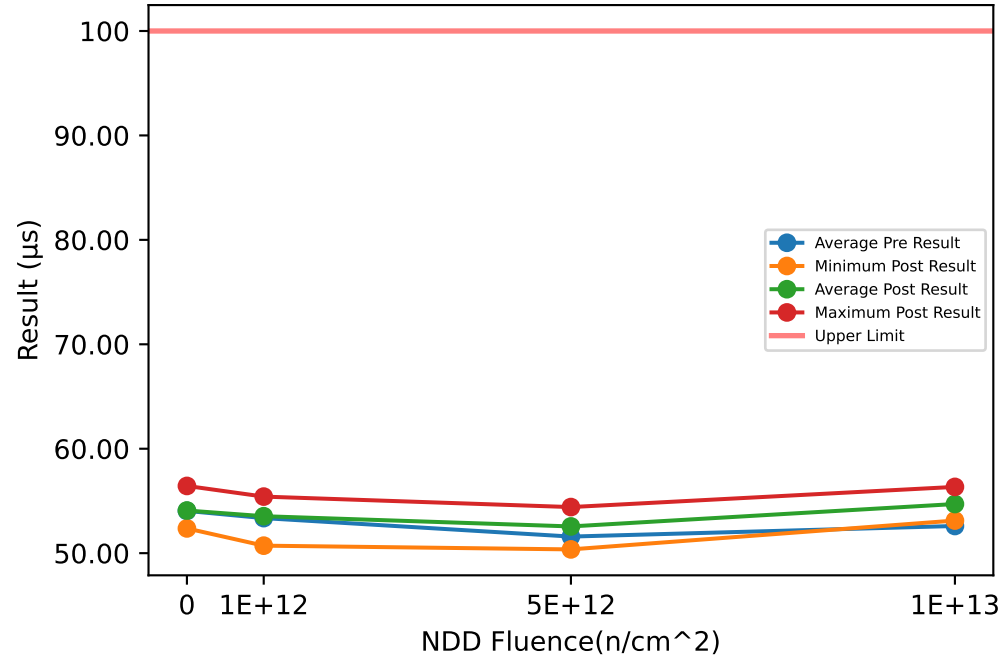
NDD vs Post - Pre Exposure Delta



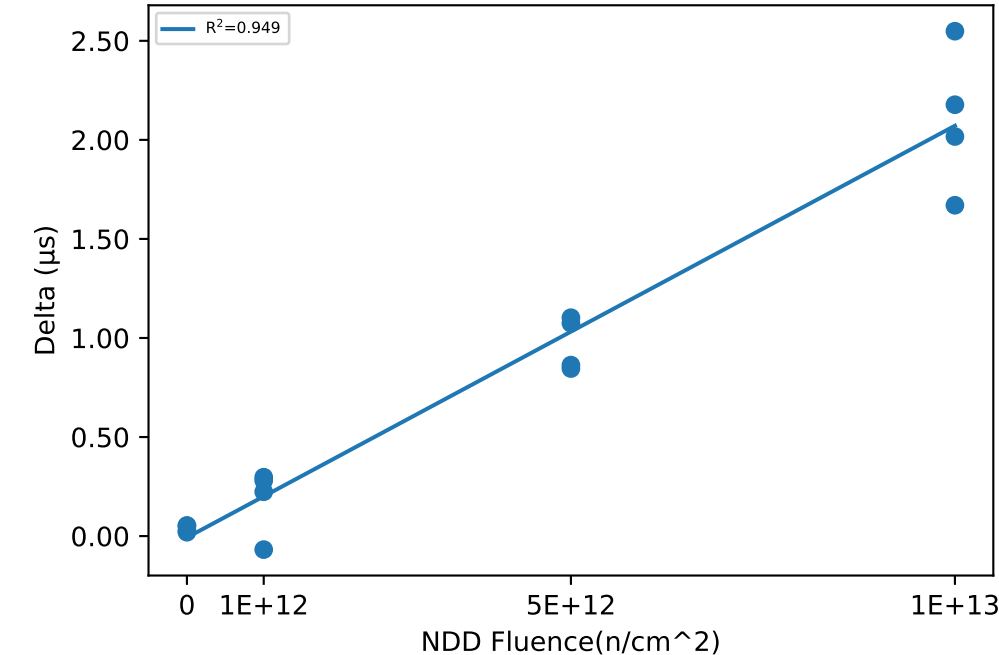
Test Statistics (ns)

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	192.71	196.03	199.9	3.2385	191.69	195.02	198.49	2.7763	-2.3775	-1.0046	0.7932	1.3267
1e+12	193.54	196.59	199.87	2.6901	187.7	196.13	200.3	5.739	-5.8455	-0.45323	3.4568	3.8948
5e+12	195.7	199.59	203.13	3.0413	197.03	201.01	204.44	3.8137	-2.7079	1.4184	8.4079	4.9498
1e+13	190.64	197.66	201.2	4.7582	193.71	201.22	205.54	5.1881	2.8946	3.5529	4.337	0.68471

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



Test Results (Upper Limit = 100.0 (µs))

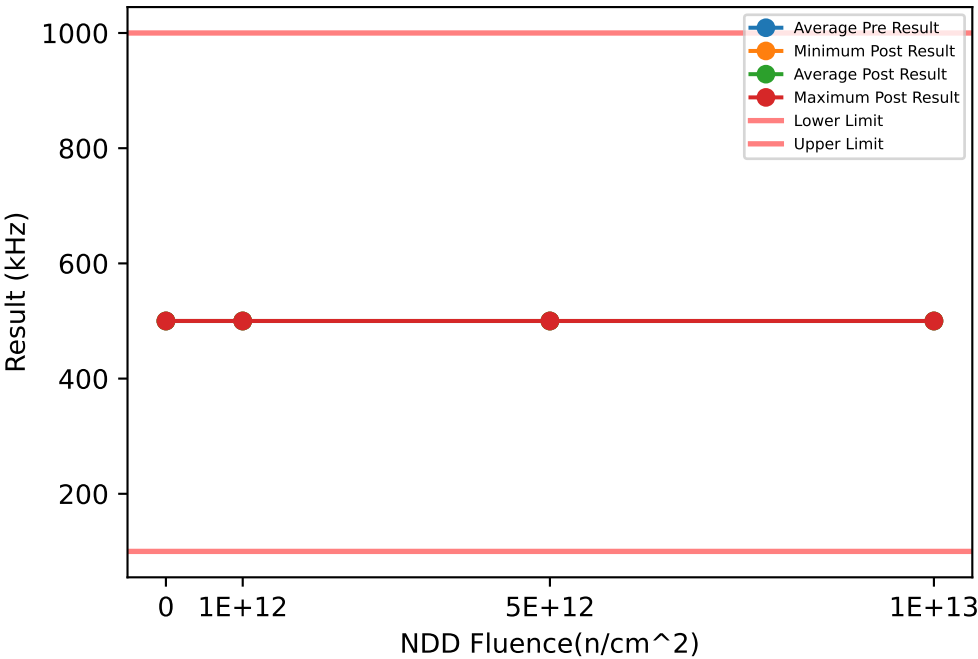
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	52.597	52.895	0.2973
229	5e+12	NDD	50.967	52.042	1.0749
260	1e+13	NDD	51.668	54.216	2.5486
301	1e+12	NDD	50.787	50.718	-0.0682
362	5e+12	NDD	53.568	54.414	0.8458
365	1e+13	NDD	51.453	53.123	1.67
439	1e+12	NDD	55.136	55.416	0.2805
514	5e+12	NDD	52.32	53.422	1.1024
577	1e+13	NDD	54.328	56.345	2.017
634	1e+12	NDD	54.906	55.13	0.2237
635	5e+12	NDD	49.497	50.361	0.8631
713	1e+13	NDD	52.958	55.135	2.1775
732	0	CORRELATION	56.385	56.437	0.0521
742	0	CORRELATION	54.057	54.076	0.0195
879	0	CORRELATION	52.317	52.37	0.0532
880	0	CORRELATION	53.426	53.454	0.0278

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	52.317	54.046	56.385	1.7171	52.37	54.084	56.437	1.7197	0.0195	0.03815	0.0532	0.017088
1e+12	50.787	53.356	55.136	2.0614	50.718	53.54	55.416	2.1929	-0.0682	0.18333	0.2973	0.17061
5e+12	49.497	51.588	53.568	1.7522	50.361	52.56	54.414	1.7593	0.8458	0.97155	1.1024	0.13586
1e+13	51.453	52.602	54.328	1.3291	53.123	54.705	56.345	1.3683	1.67	2.1033	2.5486	0.36469

Device Test: 24.8 FREQ|500kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE

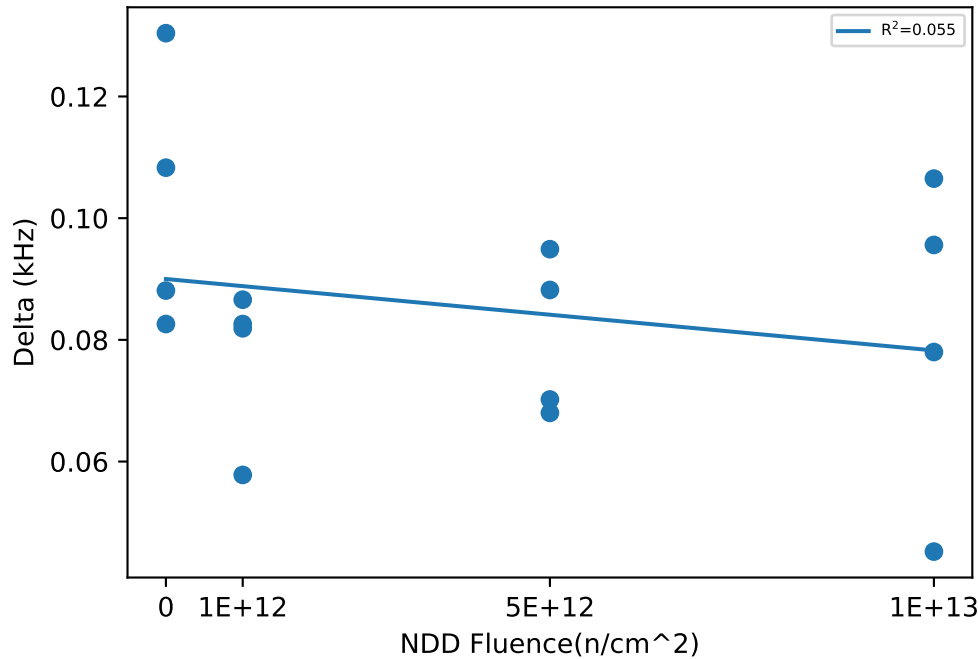
NDD vs Result Stats



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

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	499.94	500.02	0.0866
229	5e+12	NDD	499.95	500.02	0.068
260	1e+13	NDD	499.97	500.02	0.0452
301	1e+12	NDD	499.96	500.05	0.0826
362	5e+12	NDD	499.94	500.04	0.0949
365	1e+13	NDD	499.94	500.04	0.0956
439	1e+12	NDD	499.96	500.05	0.0819
514	5e+12	NDD	499.96	500.04	0.0882
577	1e+13	NDD	499.92	500.03	0.1065
634	1e+12	NDD	499.97	500.02	0.0578
635	5e+12	NDD	499.97	500.04	0.0702
713	1e+13	NDD	499.97	500.05	0.078
732	0	CORRELATION	499.93	500.02	0.0881
742	0	CORRELATION	499.94	500.07	0.1304
879	0	CORRELATION	499.96	500.06	0.1083
880	0	CORRELATION	499.93	500.02	0.0826

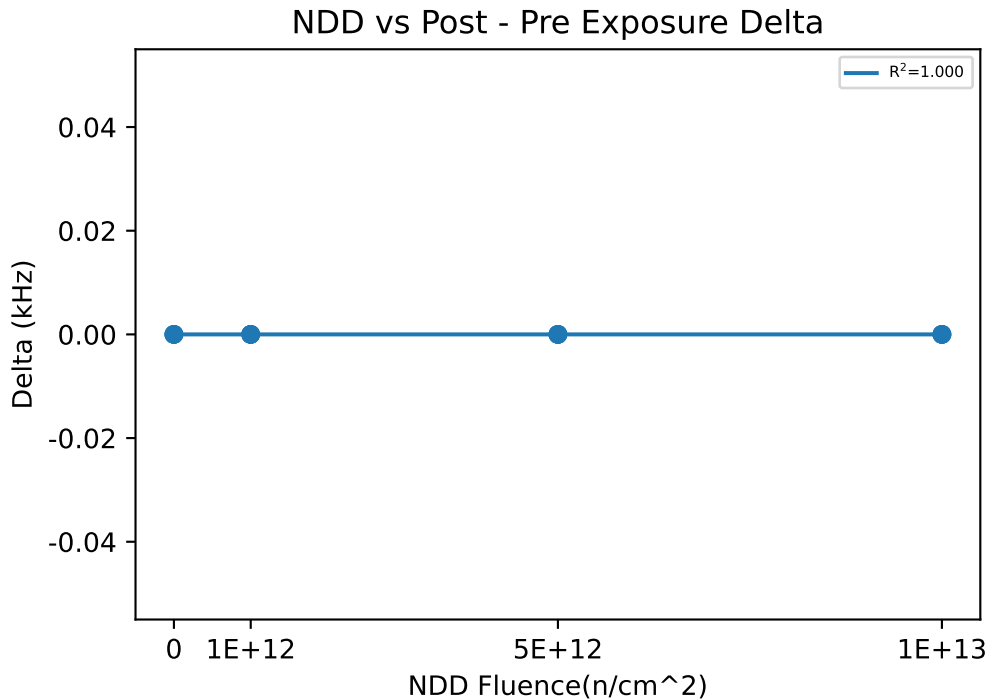
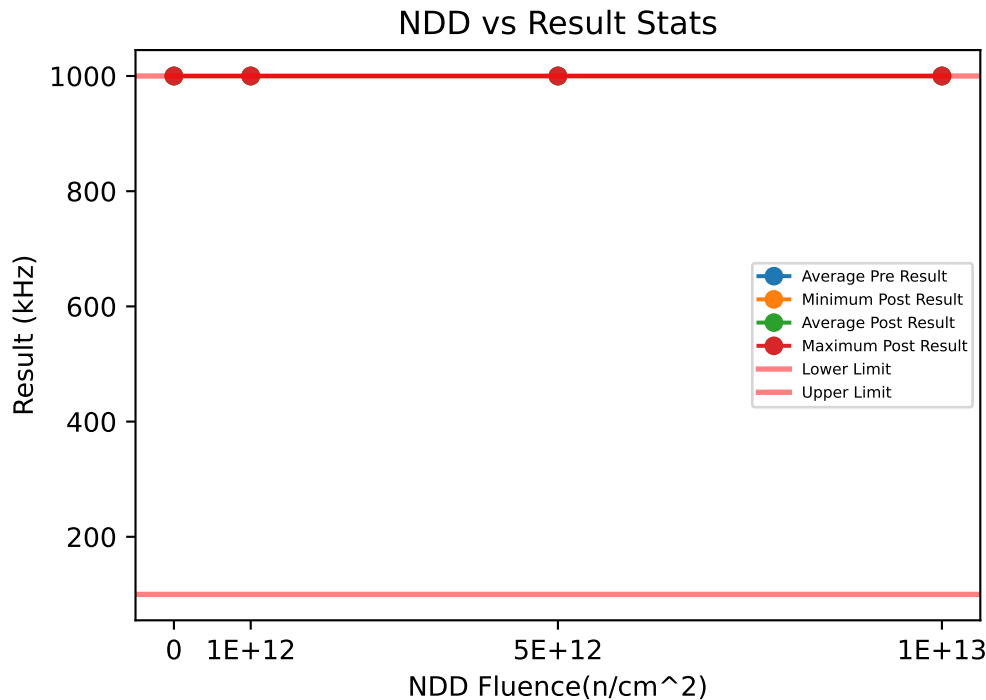
NDD vs Post - Pre Exposure Delta



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	499.93	499.94	499.96	0.011787	500.02	500.04	500.07	0.030222	0.0826	0.10235	0.1304	0.02172
1e+12	499.94	499.96	499.97	0.013242	500.02	500.04	500.05	0.013038	0.0578	0.077225	0.0866	0.013114
5e+12	499.94	499.95	499.97	0.010817	500.02	500.03	500.04	0.012219	0.068	0.080325	0.0949	0.013277
1e+13	499.92	499.95	499.97	0.02454	500.02	500.03	500.05	0.01179	0.0452	0.081325	0.1065	0.026793

Device Test: 24.9 FREQ|1000kHz/SYNC1/4.5//OPEN//@SYNC_FREQ_RANGE

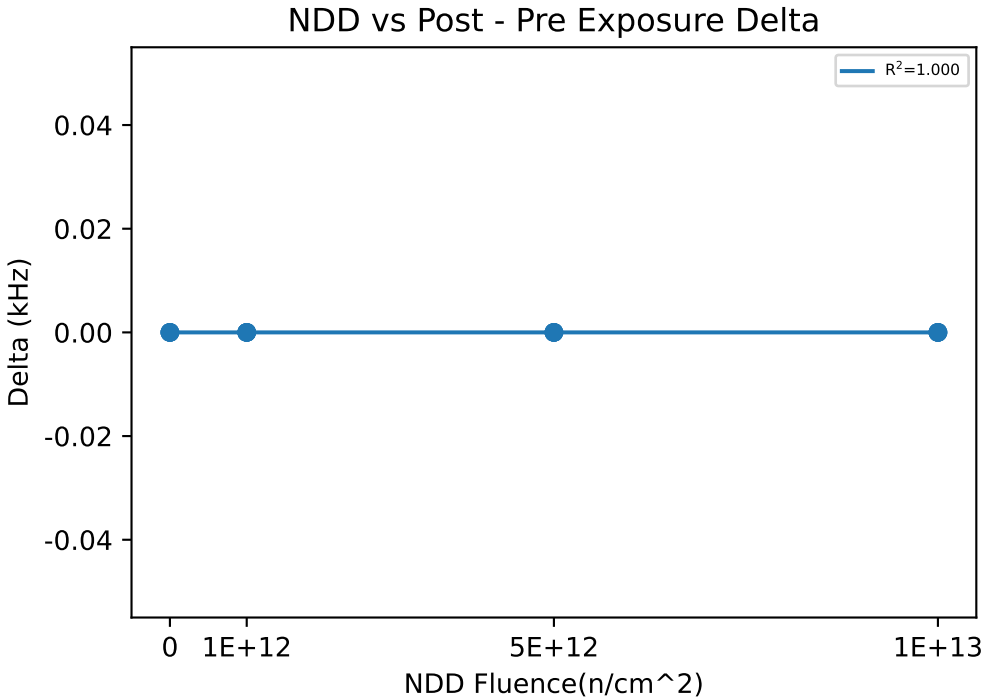
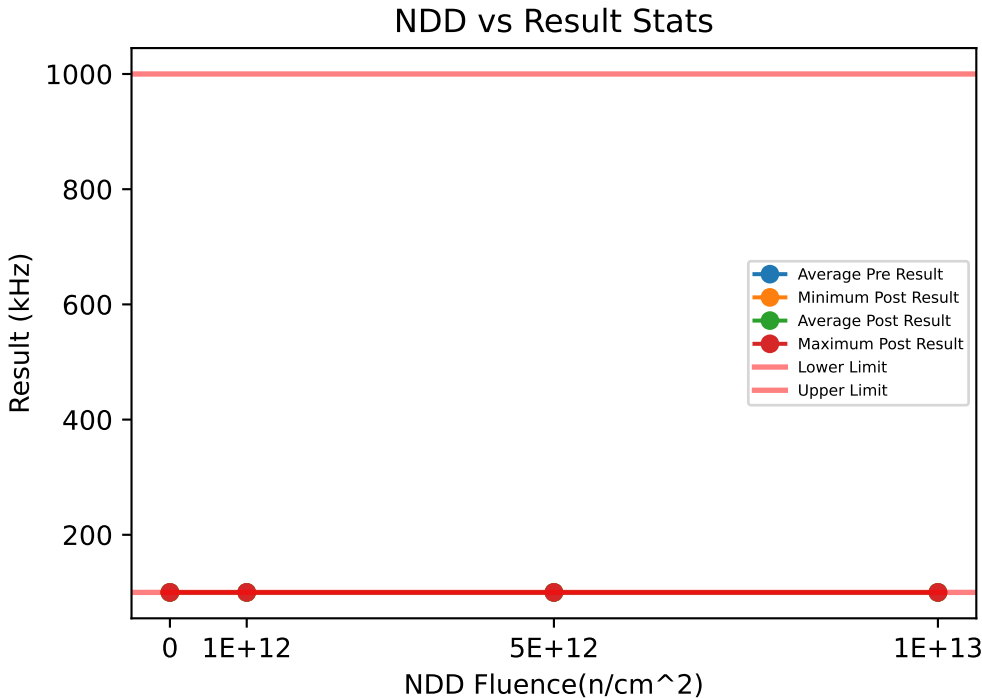


Test Results (Lower Limit = 100.0,
Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1000	1000	0
229	5e+12	NDD	1000	1000	0
260	1e+13	NDD	1000	1000	0
301	1e+12	NDD	1000	1000	0
362	5e+12	NDD	1000	1000	0
365	1e+13	NDD	1000	1000	0
439	1e+12	NDD	1000	1000	0
514	5e+12	NDD	1000	1000	0
577	1e+13	NDD	1000	1000	0
634	1e+12	NDD	1000	1000	0
635	5e+12	NDD	1000	1000	0
713	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	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



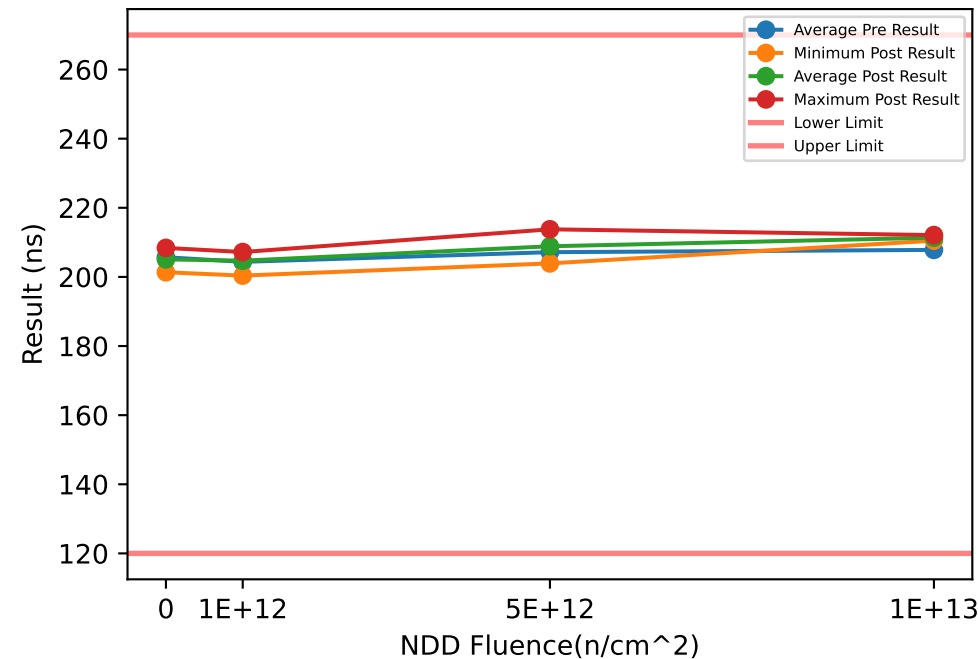
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	100	100	0
229	5e+12	NDD	100	100	0
260	1e+13	NDD	100	100	0
301	1e+12	NDD	100	100	0
362	5e+12	NDD	100	100	0
365	1e+13	NDD	100	100	0
439	1e+12	NDD	100	100	0
514	5e+12	NDD	100	100	0
577	1e+13	NDD	100	100	0
634	1e+12	NDD	100	100	0
635	5e+12	NDD	100	100	0
713	1e+13	NDD	100	100	0
732	0	CORRELATION	100	100	0
742	0	CORRELATION	100	100	0
879	0	CORRELATION	100	100	0
880	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

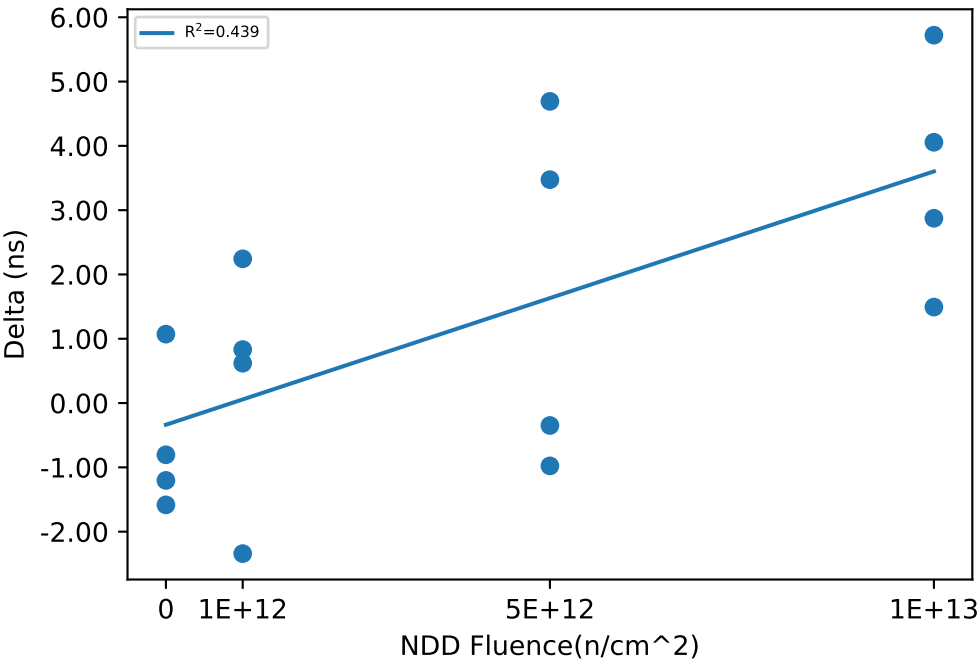
NDD vs Result Stats



Test Results (Lower Limit = 120.0, Upper Limit = 270.0 (ns))

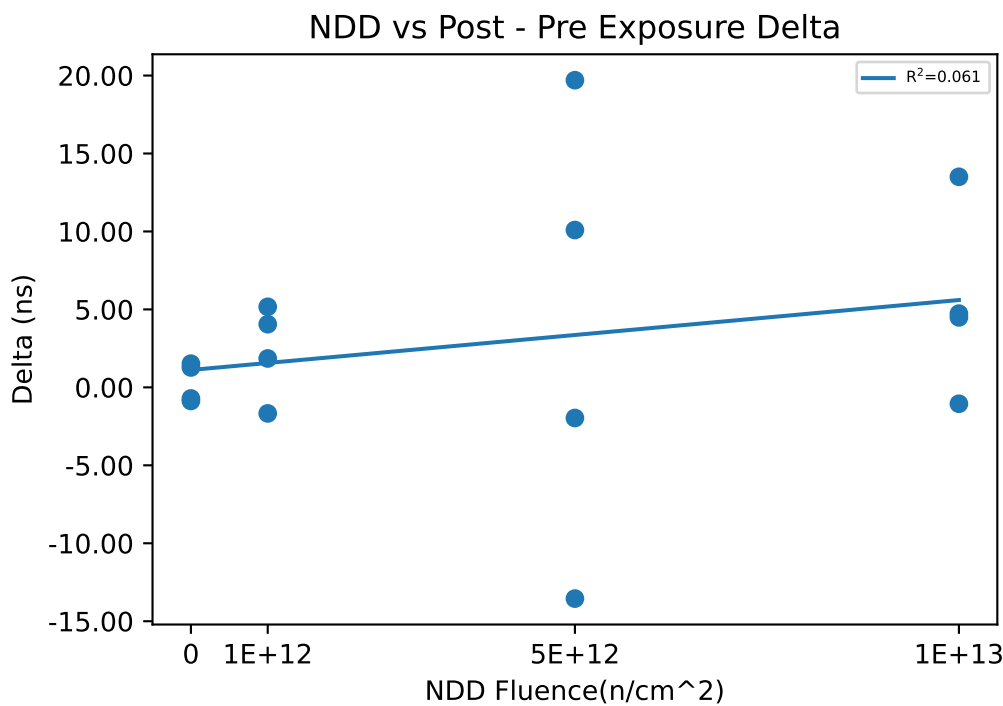
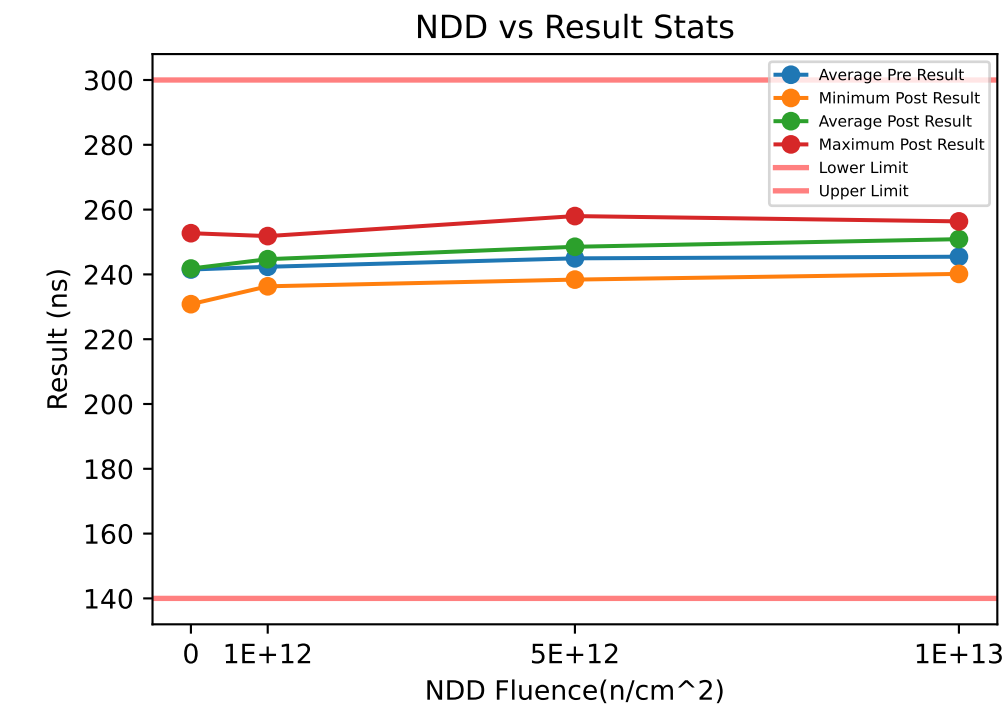
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	205.02	205.85	0.8318
229	5e+12	NDD	208.55	208.2	-0.3485
260	1e+13	NDD	204.77	210.49	5.7211
301	1e+12	NDD	204.96	207.2	2.2431
362	5e+12	NDD	209.09	213.78	4.6915
365	1e+13	NDD	207.4	211.46	4.056
439	1e+12	NDD	199.76	200.38	0.6198
514	5e+12	NDD	210.56	209.58	-0.9773
577	1e+13	NDD	208.49	211.36	2.8735
634	1e+12	NDD	207.7	205.36	-2.3412
635	5e+12	NDD	200.44	203.92	3.4742
713	1e+13	NDD	210.61	212.1	1.4927
732	0	CORRELATION	202.16	201.35	-0.8043
742	0	CORRELATION	207.32	208.39	1.0717
879	0	CORRELATION	205.07	203.48	-1.5834
880	0	CORRELATION	208.26	207.06	-1.203

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	202.16	205.7	208.26	2.7182	201.35	205.07	208.39	3.2326	-1.5834	-0.62975	1.0717	1.1781
1e+12	199.76	204.36	207.7	3.3216	200.38	204.7	207.2	2.9826	-2.3412	0.33837	2.2431	1.9262
5e+12	200.44	207.16	210.56	4.5572	203.92	208.87	213.78	4.0654	-0.9773	1.71	4.6915	2.7965
1e+13	204.77	207.82	210.61	2.4301	210.49	211.35	212.1	0.66288	1.4927	3.5358	5.7211	1.7943

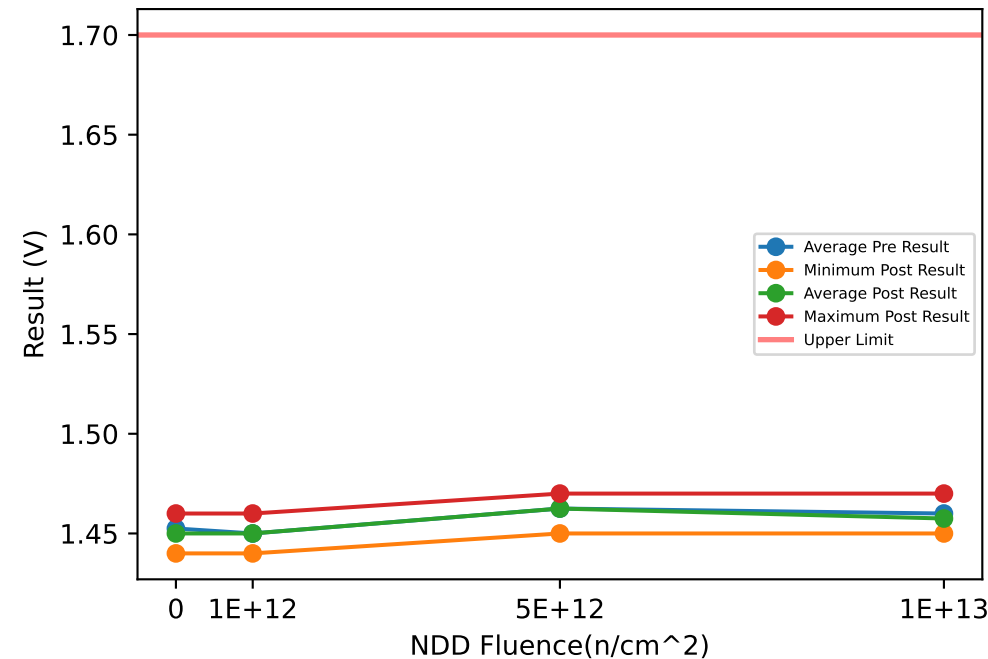


Test Results (Lower Limit = 140.0, Upper Limit = 300.0 (ns))					
Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	234.47	236.32	1.8538
229	5e+12	NDD	251.95	238.4	-13.549
260	1e+13	NDD	241.2	240.15	-1.0515
301	1e+12	NDD	246.66	251.82	5.1666
362	5e+12	NDD	238.3	258	19.702
365	1e+13	NDD	251.49	256.22	4.7293
439	1e+12	NDD	237.02	241.07	4.0517
514	5e+12	NDD	252.28	250.32	-1.9646
577	1e+13	NDD	237.25	250.76	13.505
634	1e+12	NDD	251.25	249.58	-1.6709
635	5e+12	NDD	237.3	247.39	10.093
713	1e+13	NDD	251.88	256.36	4.4887
732	0	CORRELATION	231.52	230.81	-0.7121
742	0	CORRELATION	251.44	252.72	1.2757
879	0	CORRELATION	245.73	247.25	1.519
880	0	CORRELATION	237.33	236.45	-0.8725

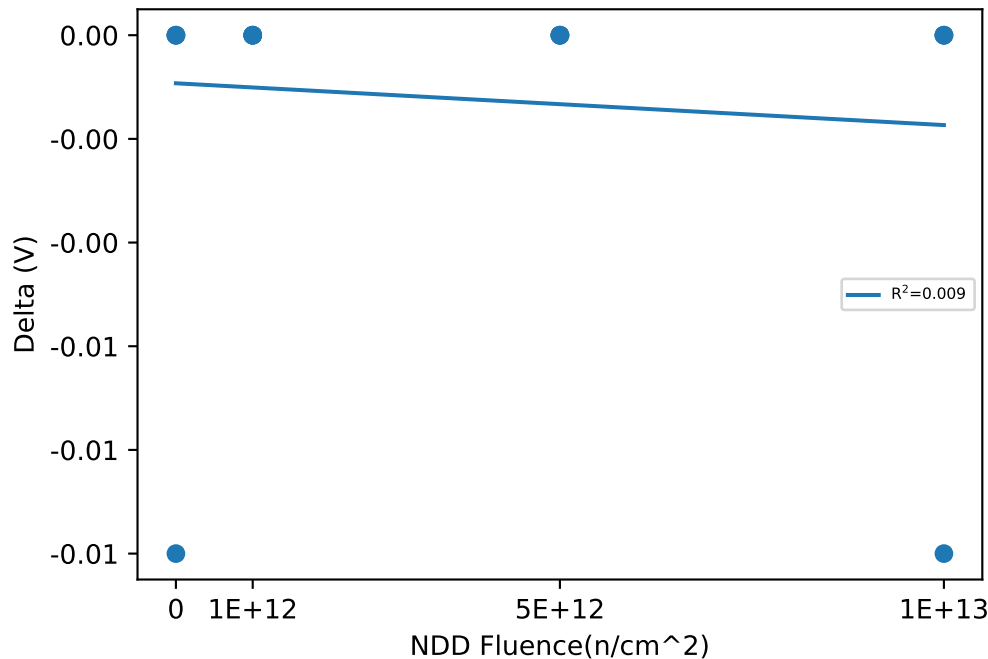
Test Statistics (ns)

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	231.52	241.5	251.44	8.8273	230.81	241.81	252.72	9.9718	-0.8725	0.30253	1.519	1.2698
1e+12	234.47	242.35	251.25	7.9208	236.32	244.7	251.82	7.2535	-1.6709	2.3503	5.1666	3.0135
5e+12	237.3	244.96	252.28	8.2756	238.4	248.53	258	8.1001	-13.549	3.5702	19.702	14.451
1e+13	237.25	245.46	251.88	7.3734	240.15	250.87	256.36	7.6104	-1.0515	5.418	13.505	6.0166

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta



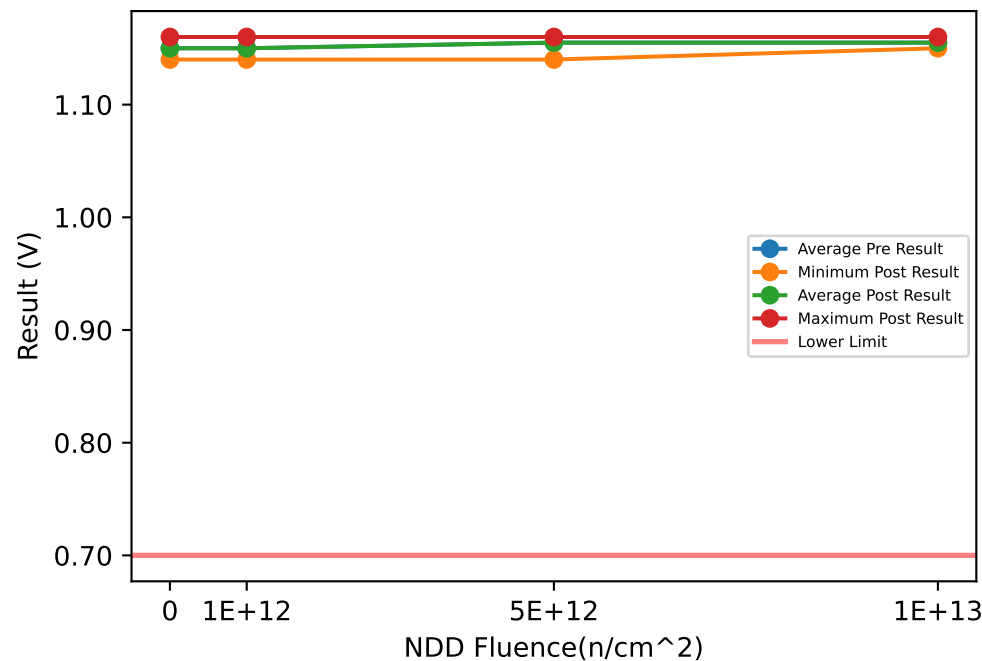
Test Results (Upper Limit = 1.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.45	1.45	0
229	5e+12	NDD	1.47	1.47	0
260	1e+13	NDD	1.46	1.46	0
301	1e+12	NDD	1.45	1.45	0
362	5e+12	NDD	1.47	1.47	0
365	1e+13	NDD	1.46	1.45	-0.01
439	1e+12	NDD	1.44	1.44	0
514	5e+12	NDD	1.45	1.45	0
577	1e+13	NDD	1.45	1.45	0
634	1e+12	NDD	1.46	1.46	0
635	5e+12	NDD	1.46	1.46	0
713	1e+13	NDD	1.47	1.47	0
732	0	CORRELATION	1.44	1.44	0
742	0	CORRELATION	1.45	1.45	0
879	0	CORRELATION	1.47	1.46	-0.01
880	0	CORRELATION	1.45	1.45	0

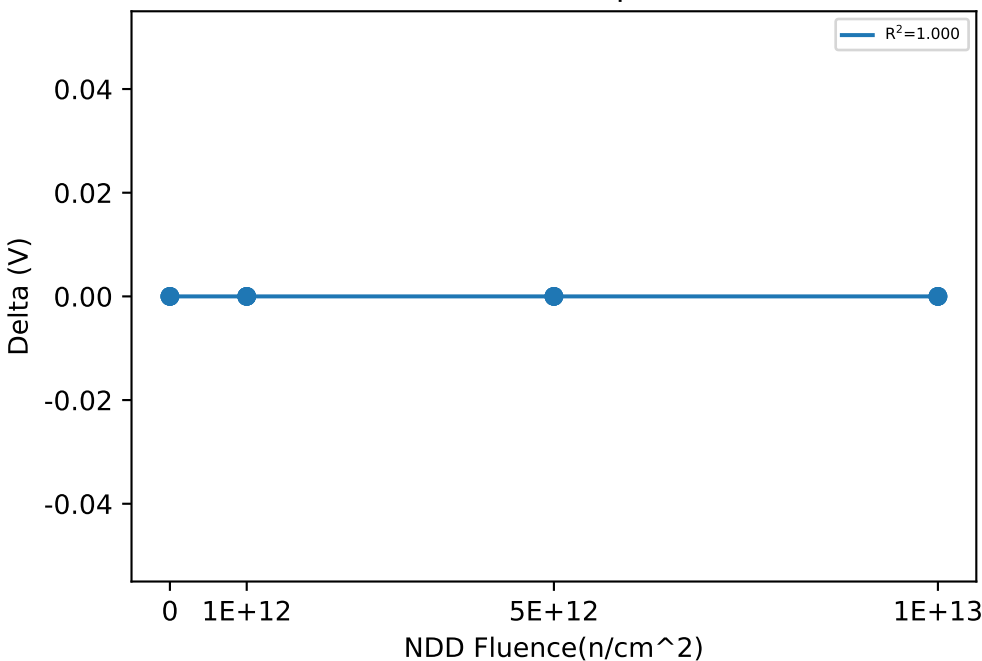
Test Statistics (V)

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	1.44	1.4525	1.47	0.012583	1.44	1.45	1.46	0.008165	-0.01	-0.0025	0	0.005
1e+12	1.44	1.45	1.46	0.008165	1.44	1.45	1.46	0.008165	0	0	0	0
5e+12	1.45	1.4625	1.47	0.0095743	1.45	1.4625	1.47	0.0095743	0	0	0	0
1e+13	1.45	1.46	1.47	0.008165	1.45	1.4575	1.47	0.0095743	-0.01	-0.0025	0	0.005

NDD vs Result Stats



NDD vs Post - Pre Exposure Delta

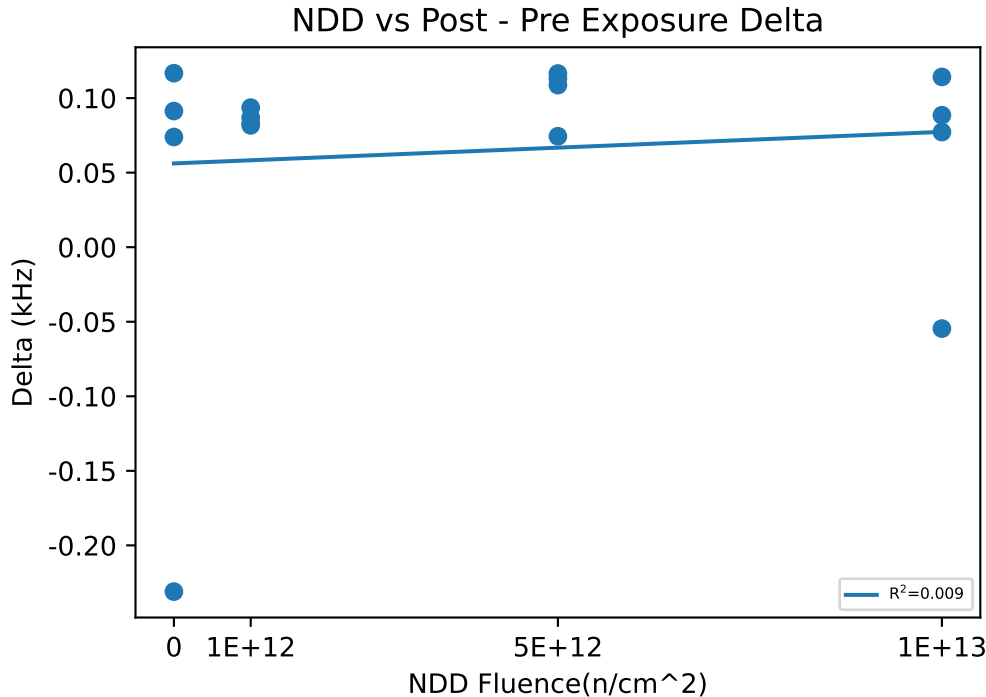
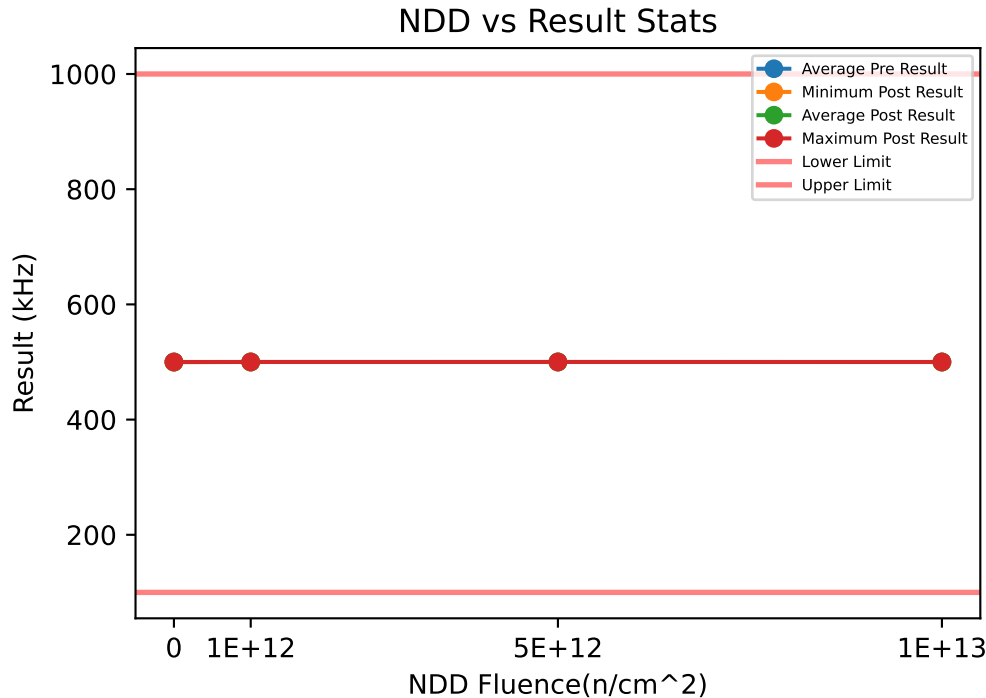


Test Results (Lower Limit = 0.7 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1.15	1.15	0
229	5e+12	NDD	1.16	1.16	0
260	1e+13	NDD	1.16	1.16	0
301	1e+12	NDD	1.15	1.15	0
362	5e+12	NDD	1.16	1.16	0
365	1e+13	NDD	1.15	1.15	0
439	1e+12	NDD	1.14	1.14	0
514	5e+12	NDD	1.14	1.14	0
577	1e+13	NDD	1.15	1.15	0
634	1e+12	NDD	1.16	1.16	0
635	5e+12	NDD	1.16	1.16	0
713	1e+13	NDD	1.16	1.16	0
732	0	CORRELATION	1.14	1.14	0
742	0	CORRELATION	1.15	1.15	0
879	0	CORRELATION	1.16	1.16	0
880	0	CORRELATION	1.15	1.15	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	1.14	1.15	1.16	0.008165	1.14	1.15	1.16	0.008165	0	0	0	0
1e+12	1.14	1.15	1.16	0.008165	1.14	1.15	1.16	0.008165	0	0	0	0
5e+12	1.14	1.155	1.16	0.01	1.14	1.155	1.16	0.01	0	0	0	0
1e+13	1.15	1.155	1.16	0.0057735	1.15	1.155	1.16	0.0057735	0	0	0	0

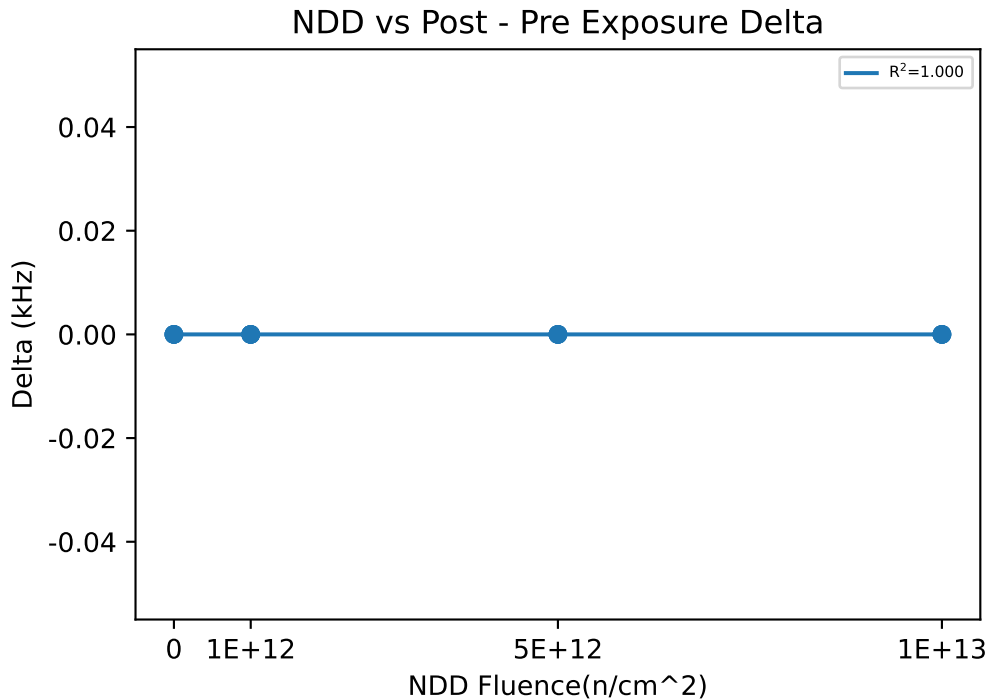
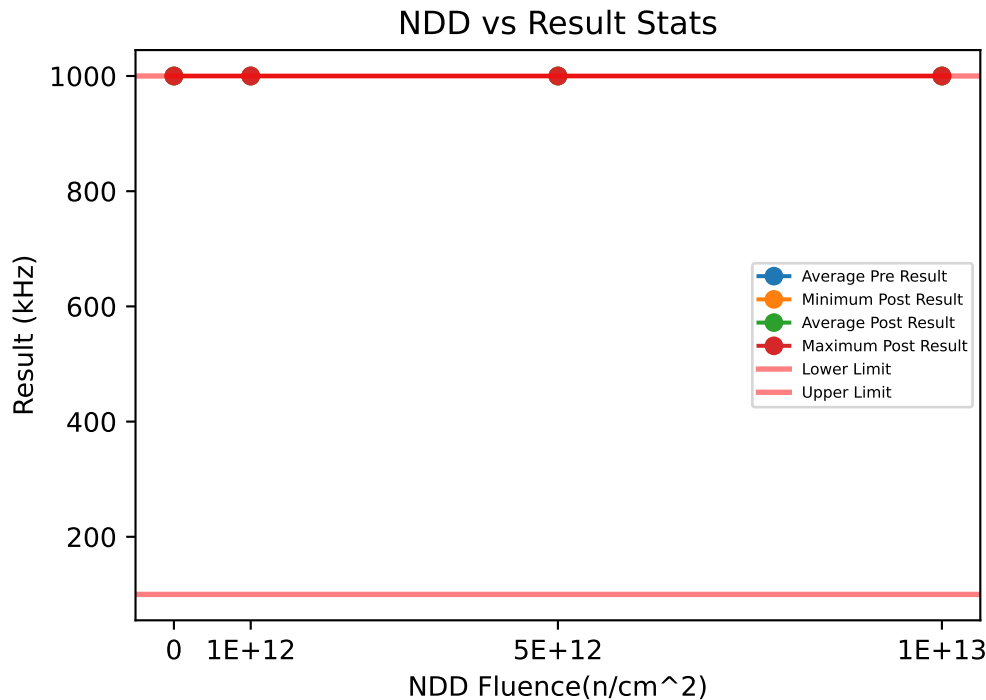


Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	499.94	500.03	0.0817
229	5e+12	NDD	499.95	500.06	0.1087
260	1e+13	NDD	499.98	499.92	-0.0546
301	1e+12	NDD	499.97	500.05	0.087
362	5e+12	NDD	499.93	500.05	0.1131
365	1e+13	NDD	499.96	500.05	0.0885
439	1e+12	NDD	499.97	500.05	0.0831
514	5e+12	NDD	499.96	500.03	0.0744
577	1e+13	NDD	499.93	500.04	0.1142
634	1e+12	NDD	499.94	500.04	0.0936
635	5e+12	NDD	499.97	500.08	0.1165
713	1e+13	NDD	499.96	500.03	0.0772
732	0	CORRELATION	499.93	499.7	-0.231
742	0	CORRELATION	499.93	500.02	0.0913
879	0	CORRELATION	499.94	500.06	0.1167
880	0	CORRELATION	499.93	500.01	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	499.93	499.94	499.94	0.0023615	499.7	499.95	500.06	0.16402	-0.231	0.012725	0.1167	0.16343
1e+12	499.94	499.96	499.97	0.014367	500.03	500.04	500.05	0.013597	0.0817	0.08635	0.0936	0.0053282
5e+12	499.93	499.95	499.97	0.01461	500.03	500.05	500.08	0.021383	0.0744	0.10318	0.1165	0.019447
1e+13	499.93	499.96	499.98	0.021098	499.92	500.01	500.05	0.058927	-0.0546	0.056325	0.1142	0.075553



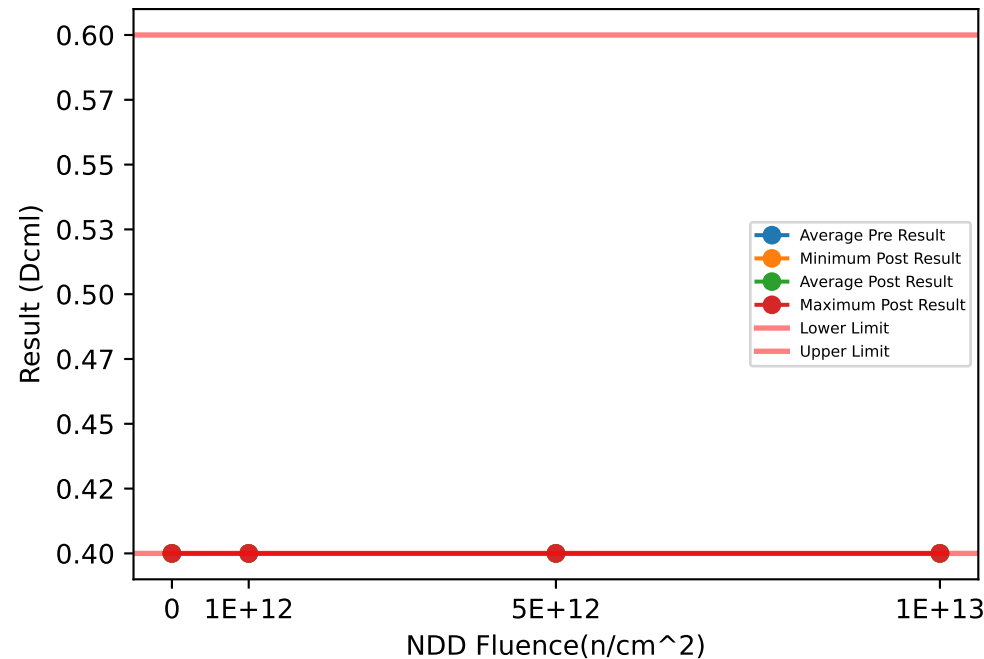
Test Results (Lower Limit = 100.0, Upper Limit = 1000.0 (kHz))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	1000	1000	0
229	5e+12	NDD	1000	1000	0
260	1e+13	NDD	1000	1000	0
301	1e+12	NDD	1000	1000	0
362	5e+12	NDD	1000	1000	0
365	1e+13	NDD	1000	1000	0
439	1e+12	NDD	1000	1000	0
514	5e+12	NDD	1000	1000	0
577	1e+13	NDD	1000	1000	0
634	1e+12	NDD	1000	1000	0
635	5e+12	NDD	1000	1000	0
713	1e+13	NDD	1000	1000	0
732	0	CORRELATION	1000	1000	0
742	0	CORRELATION	1000	1000	0
879	0	CORRELATION	1000	1000	0
880	0	CORRELATION	1000	1000	0

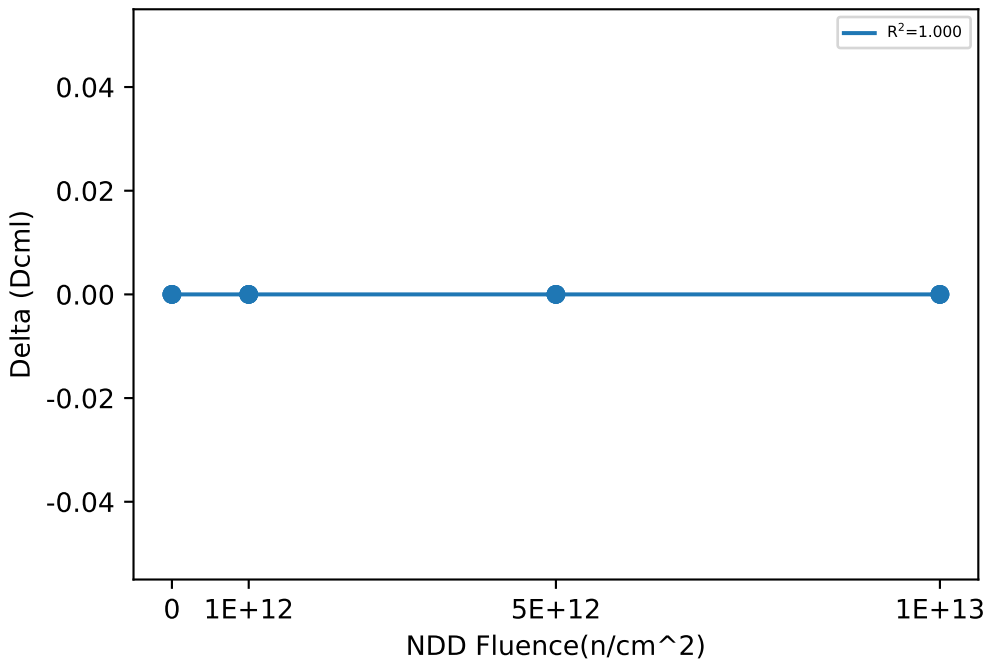
Test Statistics (kHz)

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 (Dcml))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
210	1e+12	NDD	0.4	0.4	0
229	5e+12	NDD	0.4	0.4	0
260	1e+13	NDD	0.4	0.4	0
301	1e+12	NDD	0.4	0.4	0
362	5e+12	NDD	0.4	0.4	0
365	1e+13	NDD	0.4	0.4	0
439	1e+12	NDD	0.4	0.4	0
514	5e+12	NDD	0.4	0.4	0
577	1e+13	NDD	0.4	0.4	0
634	1e+12	NDD	0.4	0.4	0
635	5e+12	NDD	0.4	0.4	0
713	1e+13	NDD	0.4	0.4	0
732	0	CORRELATION	0.4	0.4	0
742	0	CORRELATION	0.4	0.4	0
879	0	CORRELATION	0.4	0.4	0
880	0	CORRELATION	0.4	0.4	0

Test Statistics (Dcml)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	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

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