

TPS7H1121-SEP Neutron Displacement Damage (NDD) Characterization



ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the TPS7H1121-SEP device. The results show that all devices were fully functional and within production test limits after having been irradiated up to 1×10^{13} n/cm²(1MeV(Si) equivalent). A sample size of twelve units were exposed per MIL-STD-883, Method 1017 for Neutron Irradiation, and an additional three devices were used as control units and were not irradiated. Electrical testing was performed at Texas Instruments before and after neutron irradiation using the production test program for TPS7H1121-SEP.

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1 Overview

The TPS7H1121-SEP is a radiation-tolerant low dropout linear regulator (LDO) which operates over a wide range of input voltages optimized for powering devices in a space environment. The device is capable of sourcing up to 2A over a 2.25V to 14V input. The device offers excellent stability and features a programmable current limit with a wide adjustment range. To support the complex power requirements of FPGAs, DSPs, and microcontrollers, the TPS7H1121-SEP provides enable on and off functionality, programmable soft start, and a power good open-drain output.

Table 1-1. Overview Information

TI Device	TPS7H1121-SEP
TI Part Number	TPS7H1121MPWPTSEP
VID Number	V62/23604
Device Function	Low Dropout Regulator (LDO)
Technology	Linear BiCMOS 7 (LBC7)
Assembly Lot Number / Lot Trace Code	5312373MLA / 55AZRSK
Unbiased Quantity Tested	12
Exposure Facility	VPT Rad
Neutron Fluence (1-MeV equivalent)	1.0×10^{12} , 5.0×10^{12} , 1.0×10^{13} n/cm ²
Irradiation Temperature	Room temperature
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2 Test Procedures

The TPS7H1121-SEP was electrically pre- and post-tested using the production automated test equipment program.

General test procedures adhered to MIL-STD-883, Method 1017 for Neutron Irradiation of TPS7H1121-SEP. Neutron irradiation conditions are listed in [Table 2-1](#).

Table 2-1. Neutron Irradiation Conditions

Group	Sample Quantity	Neutron Fluence (n/cm ²)	BIAS
A	4	1×10^{12}	Unbiased
B	4	5×10^{12}	Unbiased
C	4	1×10^{13}	Unbiased
Correlation	3	0	N/A

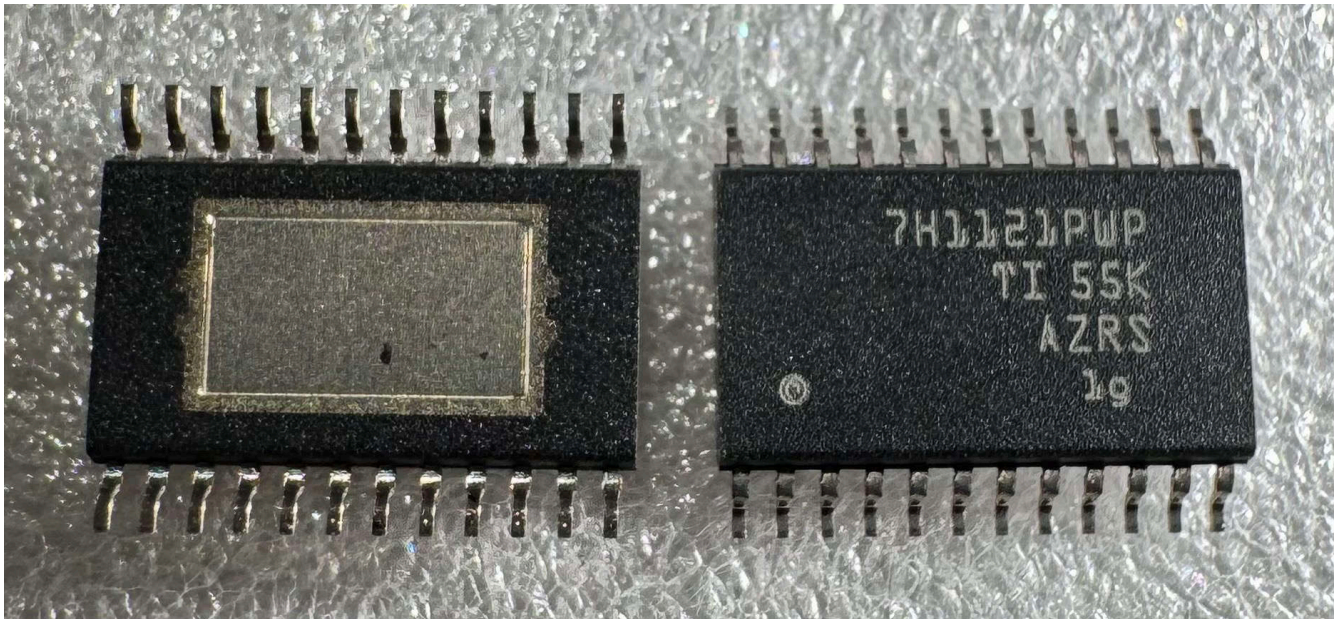


Figure 2-1. TPS7H1121-SEP Device

3 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 $1.0 E11$ 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.

4 Results

There were no functional failures at any irradiation level. All parametric measurements remained well within all data sheet limits for all exposure levels. The full parameter list is shown in [Section 4.1](#) and the related data can be found in [Section 5](#).

Specifications are at ambient temperature $T_A = 25^\circ\text{C}$, $P_{VIN} = V_{IN} = 4.5\text{V}$ to 14V unless otherwise noted. Parameters not listed in the table are omitted either because there is no parametric data or because verification was done through bench testing. Parameters without MIN and MAX values are functionally assured by ATE testing.

4.1 TPS7H1121-SP and TPS7H1121-SEP Data Sheet Electrical Parameters

Over $2.25\text{V} \leq V_{IN} \leq 14\text{V}$, $V_{OUT(\text{set})} \leq V_{IN} - 0.5\text{V}$, $I_{OUT} = 10\text{mA}$, $C_{OUT} = 47\mu\text{F}$, typical values are at $T_A = 25^\circ\text{C}$, unless otherwise noted.

Table 4-1. TPS7H1121-SP and TPS7H1121-SEP Data Sheet Electrical Parameters

Parameter	Test Conditions	MIN	TYP	MAX	UNIT	Test Number		
POWER SUPPLIES AND CURRENTS								
V_{DO}	$V_{OUT(\text{set})} = 2.25\text{V}$, $V_{OUT(\text{measured})} = 98\% \times V_{OUT(\text{NOM})}$	$I_{OUT} = 100\text{mA}$	28	60	mV	17.3		
		$I_{OUT} = 250\text{mA}$	70	141		17.6		
		$I_{OUT} = 500\text{mA}$	150	280		17.9		
		$I_{OUT} = 1\text{A}$	300	570		17.12		
	$V_{OUT(\text{set})} = 2.5\text{V}$, $V_{OUT(\text{measured})} = 98\% \times V_{OUT(\text{NOM})}$	$I_{OUT} = 1.5\text{A}$	525	750	mV	17.15		
		$I_{OUT} = 2\text{A}$	570	900		17.18		
	Dropout voltage $V_{DO} = V_{IN(\text{forced})} - V_{OUT(\text{set})}$	$3 \leq V_{OUT(\text{set})} \leq 13.3\text{V}$, $V_{OUT(\text{measured})} = 98\% \times V_{OUT(\text{NOM})}$	$I_{OUT} = 100\text{mA}$	20	50	mV	17.21, 17.24	
			$I_{OUT} = 250\text{mA}$	70	100		17.27, 17.30	
			$I_{OUT} = 500\text{mA}$	125	180		17.33, 17.36	
			$I_{OUT} = 1\text{A}$	300	340		17.39, 17.42	
			$I_{OUT} = 1.5\text{A}$	325	490		17.45, 17.48	
			$I_{OUT} = 2\text{A}$	500	700		17.51, 17.54	
I_{PCL}	Programmed current limit	$V_{IN} = 3.3\text{V}$, $V_{OUT(\text{short})} = 0.1\text{V}$	$RCL = 442\text{k}\Omega$	0.165	0.35	0.545	A	16.1
			$RCL = 174\text{k}\Omega$	0.51	0.835	1.1		16.2
			$RCL = 82.5\text{k}\Omega$	1.16	1.66	2.16		16.3
			$RCL = 41.2\text{k}\Omega$	2.4	3.15	3.85		16.4
I_Q	Quiescent current	$V_{EN} = 7\text{V}$, $I_{OUT} = 0\text{A}$		8.75	15	mA	11.7, 11.9, 11.12	
I_{GND}	Ground current	$V_{EN} = 7\text{V}$	$I_{OUT} = 1\text{A}$	10	18	mA	11.13, 11.14	
			$I_{OUT} = 2\text{A}$	13	20	mA	11.15, 11.16, 11.17	
V_{LDO}	Internal linear regulator output voltage	$V_{IN} = 2.25\text{V}$	2.05	2.2	2.25	V	15.7	
		$3\text{V} \leq V_{IN} \leq 14\text{V}$	2.3	2.55	2.78		15.64	
I_{SHDN}	Shutdown current	$V_{EN} = 0\text{V}$, $I_{OUT} = 0\text{A}$, $V_{OUT} = 0\text{V}$		380	775	μA	11.1, 11.2, 11.3, 11.4, 11.5, 11.6	

Table 4-1. TPS7H1121-SP and TPS7H1121-SEP Data Sheet Electrical Parameters (continued)

Parameter		Test Conditions		MIN	TYP	MAX	UNIT	Test Number
I_{FB}	Feedback leakage current	$V_{FB} = 0.7V$			1	15	nA	15.80
ACCURACY								
V_{ACC}	Output voltage accuracy	$10mA \leq I_{OUT} \leq 2A, 0.6V \leq V_{OUT} \leq V_{IN} - V_{DO}, P_D \leq 3W$	$3V \leq V_{IN} \leq 14V$	-1.5%		1.5%	V	15.44, 15.57, 15.62, 15.68, 15.73, 15.78
			$3V \leq V_{IN} \leq 14V, T_A = 25^\circ C$	-1.1%		1.1%		
			$2.25V \leq V_{IN} \leq 3V$	-1.8%		1.8%		
V_{FB}	Feedback voltage	$3V \leq V_{IN} \leq 14V$	$T_A = 25^\circ C$	0.588	0.596	0.606	V	15.36, 15.40, 15.45, 15.49, 15.53, 15.63, 15.74, 15.79
				0.591	0.596	0.603		
				0.586	0.596	0.608		
$\frac{\Delta V_{OUT}}{\Delta V_{IN}}$	Line regulation	$3V \leq V_{IN} \leq 14V$		100		650	$\mu V/V$	18.5
		$2.25V \leq V_{IN} \leq 3V$		285		1800		18.4
$\frac{\Delta V_{OUT}}{\Delta I_{OUT}}$	Load regulation	$10mA \leq I_{OUT} \leq 2A, V_{IN} = 4.5V, V_{OUT} = 3.3V$			4	16	mV/A	19.5
ENABLE								
$V_{EN(rising)}$	Enable rising threshold (turn-on)			0.565	0.605	0.625	V	13.1, 13.4, 13.7, 13.10, 13.13, 13.16, 13.19
$V_{EN(falling)}$	Enable falling threshold (turn-off)			0.465	0.5	0.52	V	13.2, 13.5, 13.8, 13.11, 13.14, 13.17, 13.20

Table 4-1. TPS7H1121-SP and TPS7H1121-SEP Data Sheet Electrical Parameters (continued)

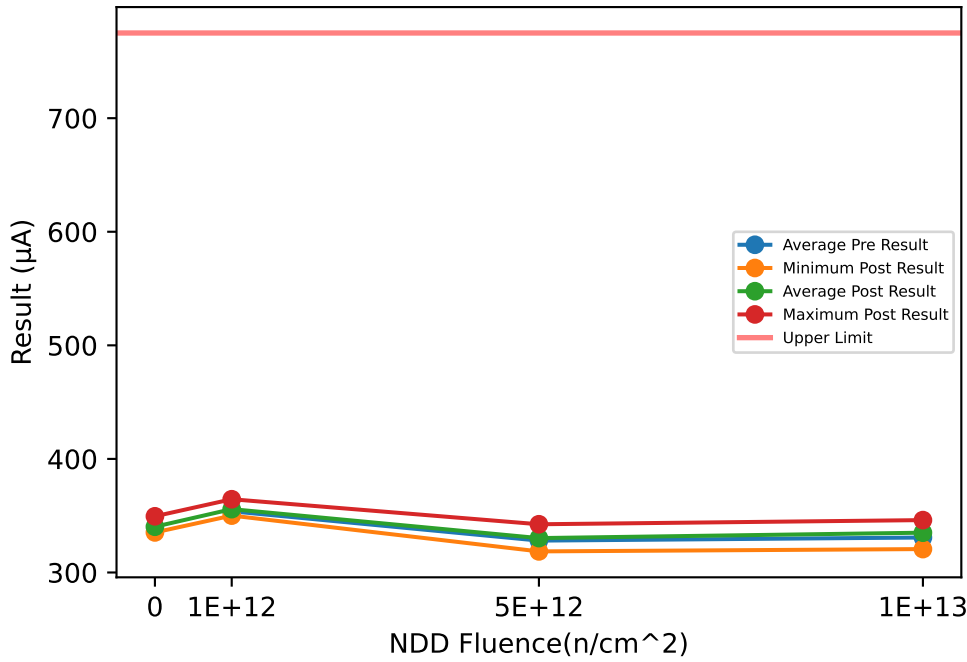
Parameter		Test Conditions		MIN	TYP	MAX	UNIT	Test Number
$t_{EN(\text{delay})}$	EN propagation delay	EN high to $V_{OUT} = 10\text{mV}$			50	150	μs	13.24, 13.25, 13.26, 13.27, 13.28, 13.29, 13.30, 13.31, 13.32, 13.33
$I_{EN(\text{LKG})}$	Enable leakage current	$V_{EN} = 7\text{V}$			1	30	nA	13.22, 13.23
POWER GOOD								
V_{PG_RISE}	Power good rising as percent of V_{OUT}			93%	95%	97%		14.1, 14.4, 14.7, 14.10, 14.13, 14.16
V_{PG_FALL}	Power good falling as percent of V_{OUT}			88.5%	91.5%	94%		14.2, 14.5, 14.8, 14.11, 14.14, 14.17
$V_{PG(\text{OL})}$	Power good output low	$I_{PG(\text{SINK})} = 2\text{mA}$			90	190	mV	14.19, 14.20
$V_{IN(\text{MIN_PG})}$	Minimum V_{IN} for valid PG ($V_{PG} < 0.5\text{V}$)	$I_{PG(\text{SINK})} = 0.5\text{mA}$			0.6	0.8	V	14.21
$I_{PG(\text{LKG})}$	Power good leakage	$V_{PG} = 7\text{V}$, $V_{FB} = 0.7\text{V}$			0.05	2	μA	14.22, 14.23
SOFT START								
I_{SS}	Soft-start current			1.4	2	2.7	μA	20.1, 20.2
t_{SS}	Soft-start time	$V_{IN} = 5\text{V}$, $V_{OUT} = 3.3\text{V}$, measured from $V_{OUT} = 10\text{mV}$ to PG assert	$C_{SS} = 1\text{nF}$	0.22	0.35	0.48	ms	20.3
			$C_{SS} = 33\text{nF}$	5.5	10	14.5		20.4
STABILITY								
GM	Gain Margin	$V_{IN} = 5\text{V}$, $V_{OUT} = 3.3\text{V}$, $I_{OUT} = 1\text{A}$, $C_{OUT} = 47\mu\text{F}$, $T_A = 25^\circ\text{C}$			24		dB	
PM	Phase Margin	$V_{IN} = 5\text{V}$, $V_{OUT} = 3.3\text{V}$, $I_{OUT} = 1\text{A}$, $C_{OUT} = 47\mu\text{F}$, $T_A = 25^\circ\text{C}$			60°			
NOISE AND PSRR								
PSRR	Power-supply rejection ratio	$V_{IN} = 5\text{V}$, $V_{OUT} = 3.3\text{V}$, $I_{OUT} = 1\text{A}$, $C_{SS} = 5.6\text{nF}$	$f_{\text{ripple}} = 100\text{Hz}$		68		dB	
			$f_{\text{ripple}} = 1\text{kHz}$		72			
			$f_{\text{ripple}} = 10\text{kHz}$		51			
			$f_{\text{ripple}} = 100\text{kHz}$		40			
			$f_{\text{ripple}} = 1\text{MHz}$		34			
V_N	Output noise voltage (Bandwidth from 10Hz to 100kHz)	$V_{IN} = 5\text{V}$, $V_{OUT} = 3.3\text{V}$, $I_{OUT} = 1\text{A}$, $C_{SS} = 5.6\text{nF}$			35		μV_{RMS}	

5 Appendix: NDD Report Data

This appendix contains the detailed NDD test results.

Device Test: 11.1 ISHDN|SUPPLY/IN/2.25//0/0//@I_SHDN

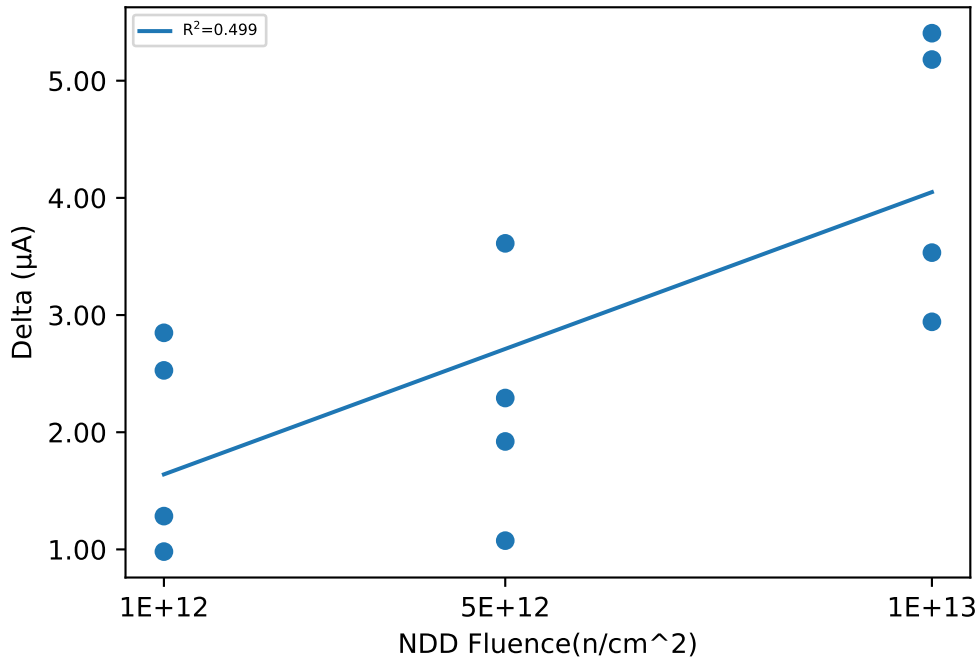
NDD vs Result Stats



Test Results (Upper Limit = 775.0 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		335.27	
55	0	CORRELATION		349.47	
56	0	CORRELATION		336.11	
64	1e+12	NDD	353.56	356.41	2.8484
65	1e+12	NDD	349.1	350.09	0.9813
66	1e+12	NDD	363.21	364.49	1.2841
67	1e+12	NDD	349.61	352.13	2.5278
68	5e+12	NDD	335.92	338.21	2.292
69	5e+12	NDD	338.85	342.46	3.612
70	5e+12	NDD	320	321.92	1.9213
71	5e+12	NDD	317.5	318.57	1.0748
72	1e+13	NDD	324.51	327.46	2.9423
73	1e+13	NDD	315.43	320.61	5.1806
74	1e+13	NDD	342.59	346.12	3.5328
75	1e+13	NDD	340.59	346	5.4055

NDD vs Post - Pre Exposure Delta

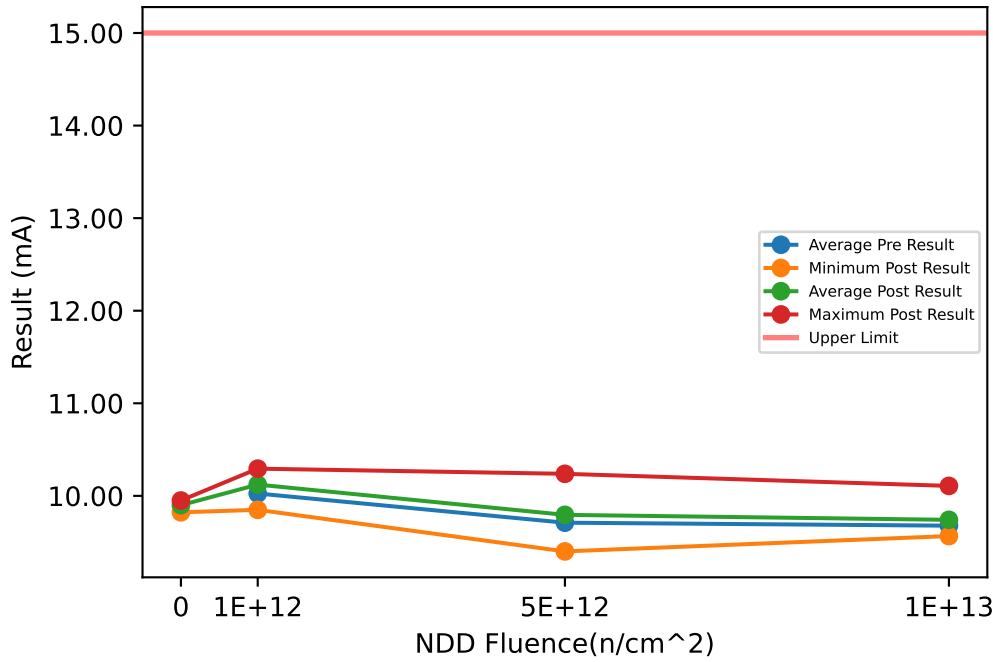


Test Statistics (µA)

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					335.27	340.28	349.47	7.9687				
1e+12	349.1	353.87	363.21	6.5371	350.09	355.78	364.49	6.3778	0.9813	1.9104	2.8484	0.91588
5e+12	317.5	328.07	338.85	10.874	318.57	330.29	342.46	11.808	1.0748	2.225	3.612	1.0557
1e+13	315.43	330.78	342.59	13.045	320.61	335.05	346.12	13.019	2.9423	4.2653	5.4055	1.2145

Device Test: 11.12 IQ|SUPPLY/IN/5/3.3/7/0//@I_Q

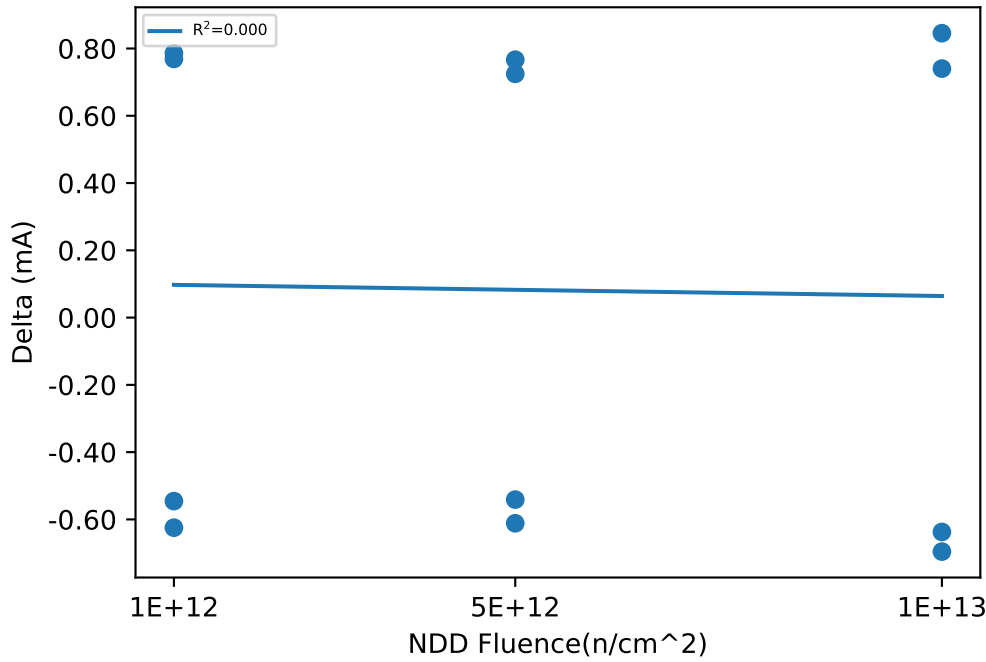
NDD vs Result Stats



Test Results (Upper Limit = 15.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		9.9497	
55	0	CORRELATION		9.9266	
56	0	CORRELATION		9.8223	
64	1e+12	NDD	10.395	9.8489	-0.5456
65	1e+12	NDD	9.4684	10.254	0.786
66	1e+12	NDD	10.918	10.294	-0.6246
67	1e+12	NDD	9.3202	10.089	0.769
68	5e+12	NDD	10.004	9.4628	-0.5411
69	5e+12	NDD	9.3536	10.078	0.7246
70	5e+12	NDD	10.011	9.4	-0.6115
71	5e+12	NDD	9.4714	10.238	0.7667
72	1e+13	NDD	10.356	9.6602	-0.6957
73	1e+13	NDD	8.8252	9.5655	0.7403
74	1e+13	NDD	10.268	9.6312	-0.6372
75	1e+13	NDD	9.262	10.107	0.8455

NDD vs Post - Pre Exposure Delta

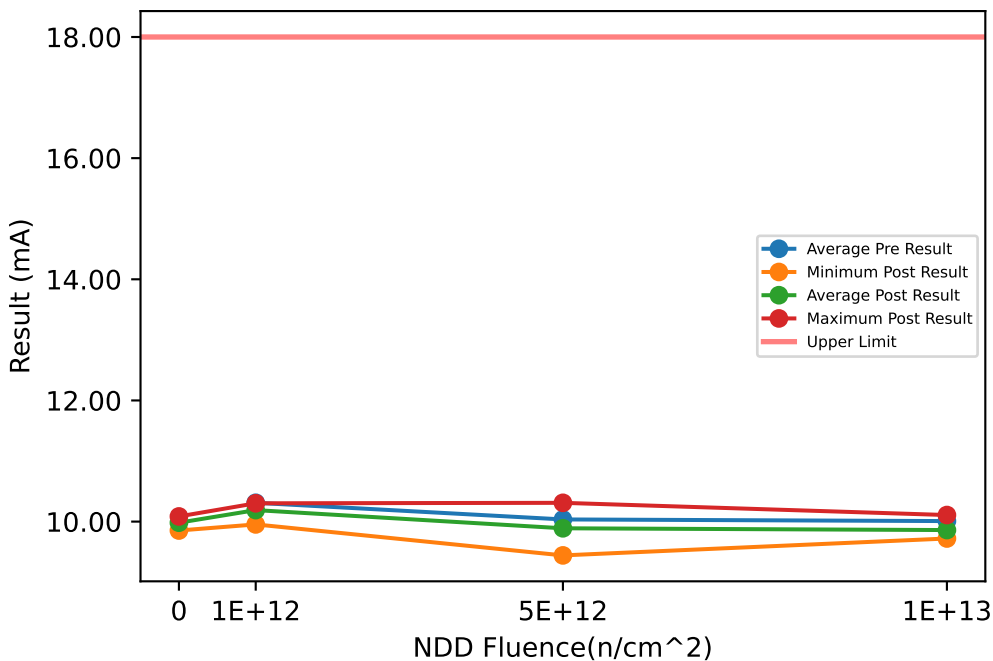


Test Statistics (mA)

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					9.8223	9.8995	9.9497	0.067876				
1e+12	9.3202	10.025	10.918	0.76185	9.8489	10.122	10.294	0.20224	-0.6246	0.0962	0.786	0.78739
5e+12	9.3536	9.7101	10.011	0.347	9.4	9.7948	10.238	0.42541	-0.6115	0.084675	0.7667	0.76396
1e+13	8.8252	9.6779	10.356	0.75464	9.5655	9.7411	10.107	0.24746	-0.6957	0.063225	0.8455	0.84399

Device Test: 11.13 IGND|SUPPLY/IN/2.25/1.1/7/1000//@I_GND_1A

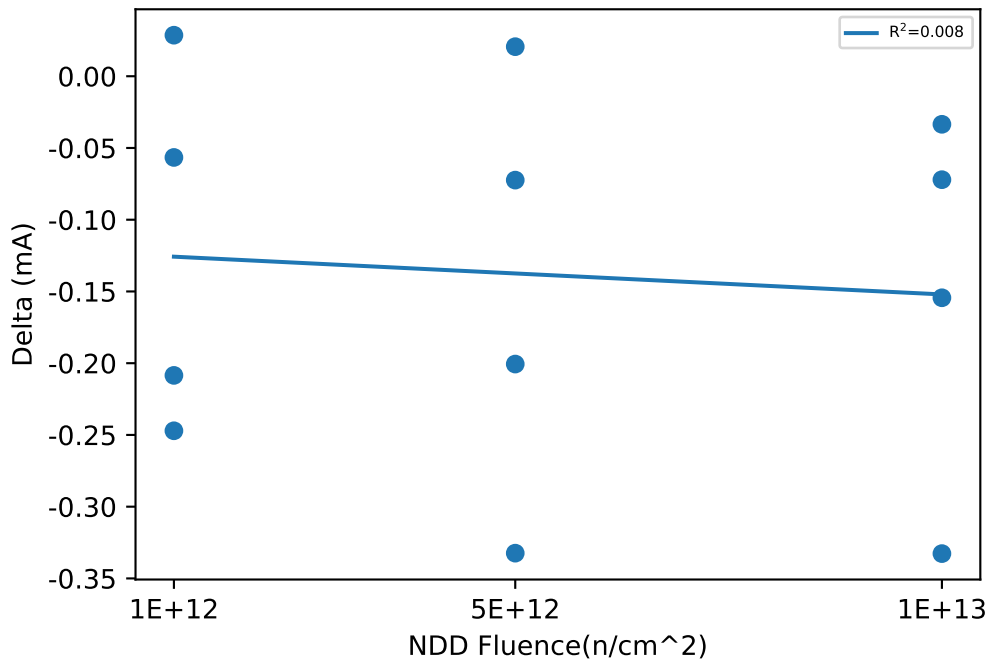
NDD vs Result Stats



Test Results (Upper Limit = 18.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		10.008	
55	0	CORRELATION		10.085	
56	0	CORRELATION		9.8527	
64	1e+12	NDD	9.9248	9.9534	0.0286
65	1e+12	NDD	10.549	10.302	-0.2471
66	1e+12	NDD	10.343	10.287	-0.0566
67	1e+12	NDD	10.425	10.217	-0.2085
68	5e+12	NDD	9.5996	9.6202	0.0206
69	5e+12	NDD	10.518	10.186	-0.3324
70	5e+12	NDD	9.5144	9.442	-0.0724
71	5e+12	NDD	10.51	10.31	-0.2006
72	1e+13	NDD	9.9558	9.8837	-0.0721
73	1e+13	NDD	10.054	9.7209	-0.3327
74	1e+13	NDD	9.7622	9.7287	-0.0335
75	1e+13	NDD	10.263	10.108	-0.1544

NDD vs Post - Pre Exposure Delta

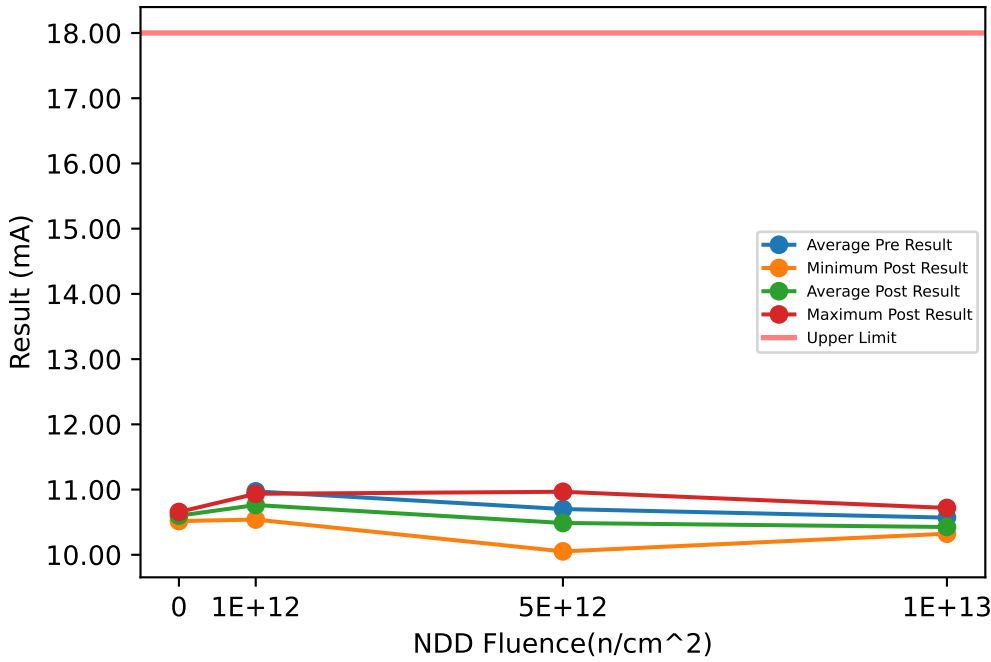


Test Statistics (mA)

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					9.8527	9.9818	10.085	0.11833				
1e+12	9.9248	10.311	10.549	0.27079	9.9534	10.19	10.302	0.16184	-0.2471	-0.1209	0.0286	0.12921
5e+12	9.5144	10.036	10.518	0.5538	9.442	9.8895	10.31	0.42317	-0.3324	-0.1462	0.0206	0.15373
1e+13	9.7622	10.009	10.263	0.20824	9.7209	9.8604	10.108	0.18148	-0.3327	-0.14818	-0.0335	0.13295

Device Test: 11.14 IGND|SUPPLY/IN/3/2.25/7/1000//@I_GND_1A

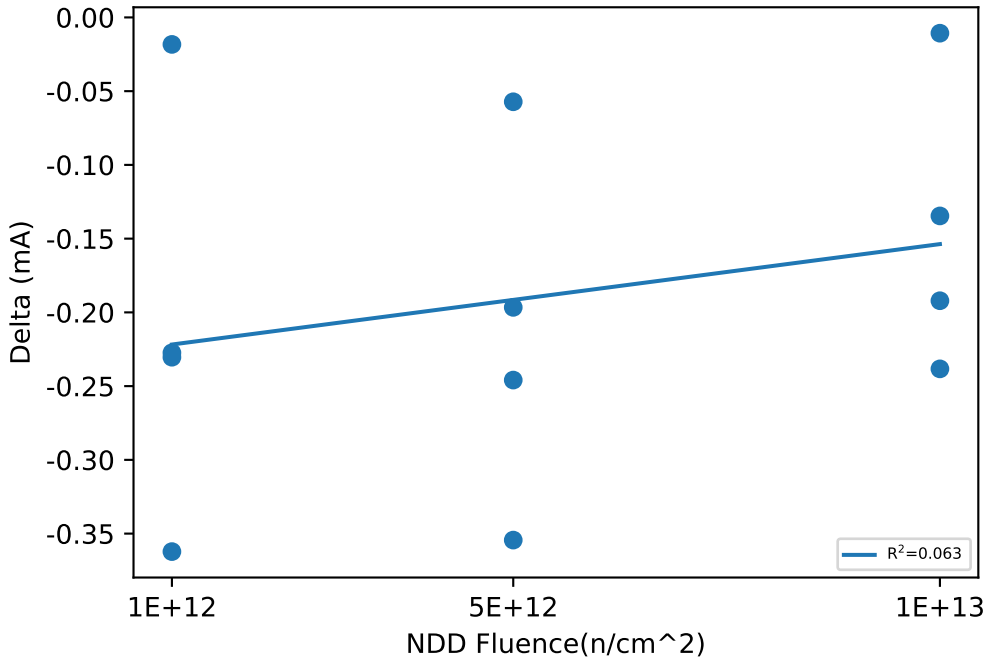
NDD vs Result Stats



Test Results (Upper Limit = 18.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		10.625	
55	0	CORRELATION		10.656	
56	0	CORRELATION		10.517	
64	1e+12	NDD	10.558	10.54	-0.0183
65	1e+12	NDD	11.166	10.935	-0.2304
66	1e+12	NDD	11.077	10.85	-0.2274
67	1e+12	NDD	11.088	10.726	-0.3622
68	5e+12	NDD	10.326	10.13	-0.1966
69	5e+12	NDD	11.158	10.803	-0.3544
70	5e+12	NDD	10.109	10.052	-0.0572
71	5e+12	NDD	11.212	10.966	-0.2459
72	1e+13	NDD	10.458	10.323	-0.1346
73	1e+13	NDD	10.531	10.339	-0.1921
74	1e+13	NDD	10.334	10.323	-0.0107
75	1e+13	NDD	10.957	10.718	-0.2383

NDD vs Post - Pre Exposure Delta

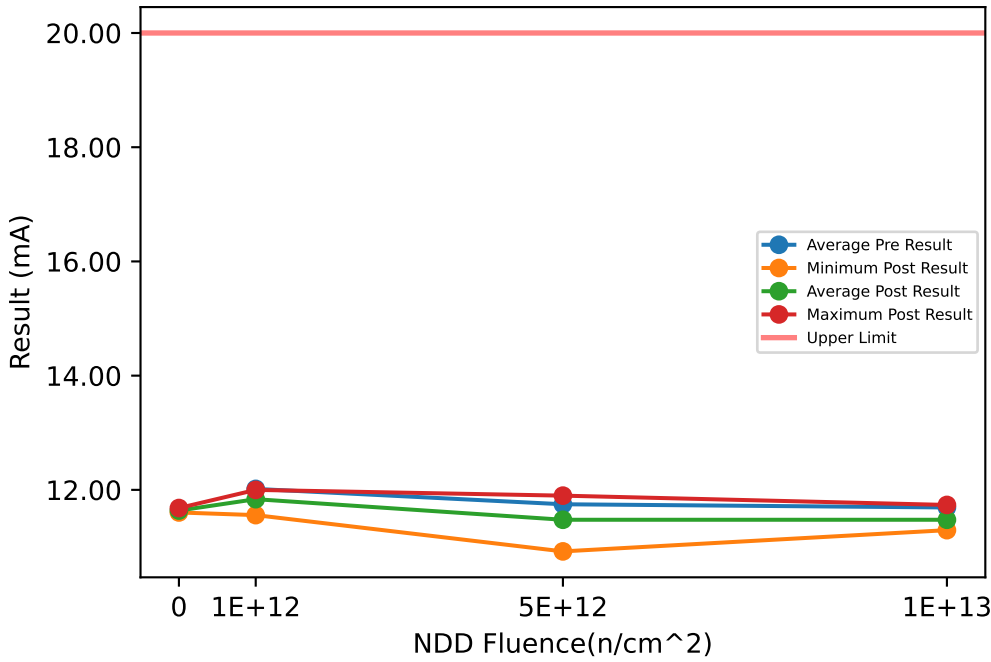


Test Statistics (mA)

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					10.517	10.599	10.656	0.073194				
1e+12	10.558	10.972	11.166	0.2788	10.54	10.763	10.935	0.17153	-0.3622	-0.20958	-0.0183	0.14216
5e+12	10.109	10.701	11.212	0.56591	10.052	10.488	10.966	0.46434	-0.3544	-0.21352	-0.0572	0.12331
1e+13	10.334	10.57	10.957	0.27039	10.323	10.426	10.718	0.1951	-0.2383	-0.14393	-0.0107	0.098426

Device Test: 11.15 IGND|SUPPLY/IN/3/2.25/7/2000//@I_GND_2A

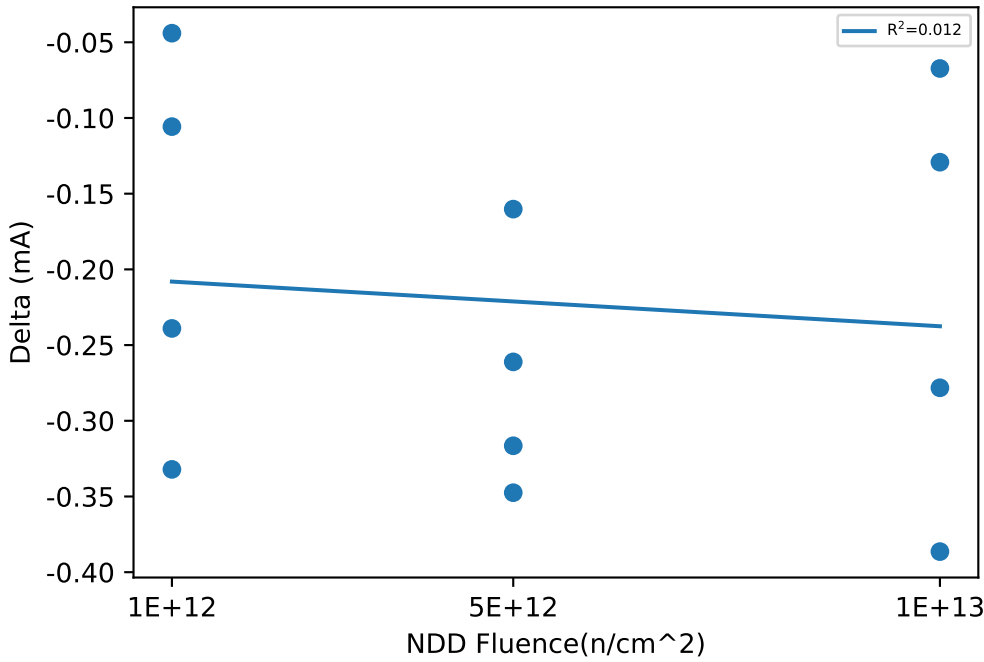
NDD vs Result Stats



Test Results (Upper Limit = 20.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		11.682	
55	0	CORRELATION		11.628	
56	0	CORRELATION		11.604	
64	1e+12	NDD	11.602	11.558	-0.044
65	1e+12	NDD	12.239	11.999	-0.239
66	1e+12	NDD	12.074	11.969	-0.1057
67	1e+12	NDD	12.153	11.821	-0.3321
68	5e+12	NDD	11.354	11.194	-0.1602
69	5e+12	NDD	12.239	11.891	-0.3475
70	5e+12	NDD	11.184	10.922	-0.2611
71	5e+12	NDD	12.215	11.899	-0.3165
72	1e+13	NDD	11.64	11.511	-0.1292
73	1e+13	NDD	11.642	11.364	-0.2782
74	1e+13	NDD	11.362	11.294	-0.0673
75	1e+13	NDD	12.122	11.736	-0.3864

NDD vs Post - Pre Exposure Delta

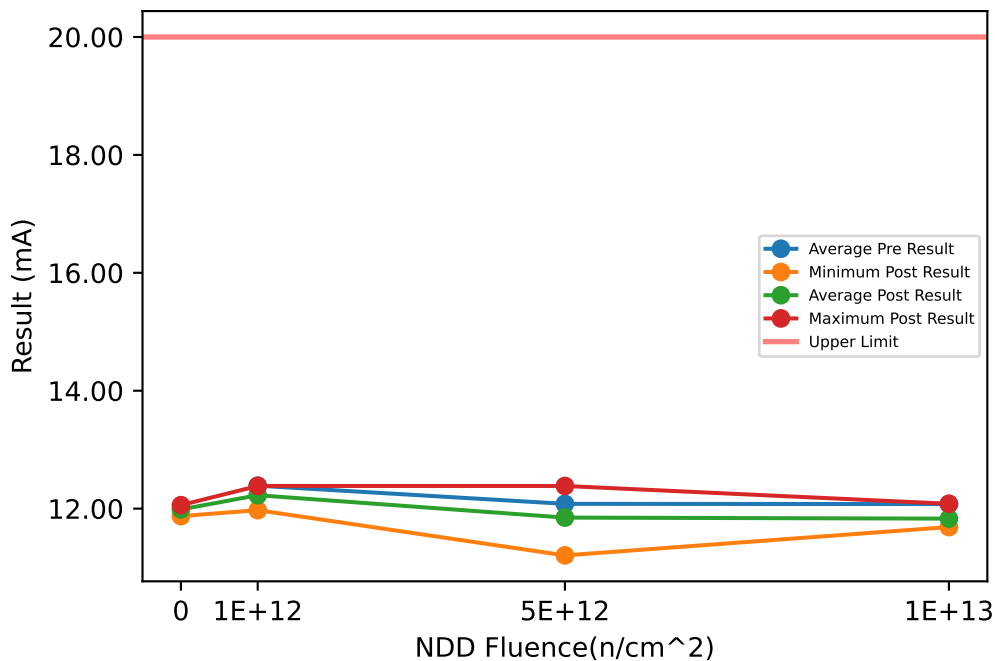


Test Statistics (mA)

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					11.604	11.638	11.682	0.039763				
1e+12	11.602	12.017	12.239	0.2848	11.558	11.837	11.999	0.20157	-0.3321	-0.1802	-0.044	0.12991
5e+12	11.184	11.748	12.239	0.55762	10.922	11.476	11.899	0.49566	-0.3475	-0.27133	-0.1602	0.082253
1e+13	11.362	11.692	12.122	0.31595	11.294	11.476	11.736	0.19523	-0.3864	-0.21528	-0.0673	0.14439

Device Test: 11.16 IGND|SUPPLY/IN/5/3.3/7/2000//@I_GND_2A

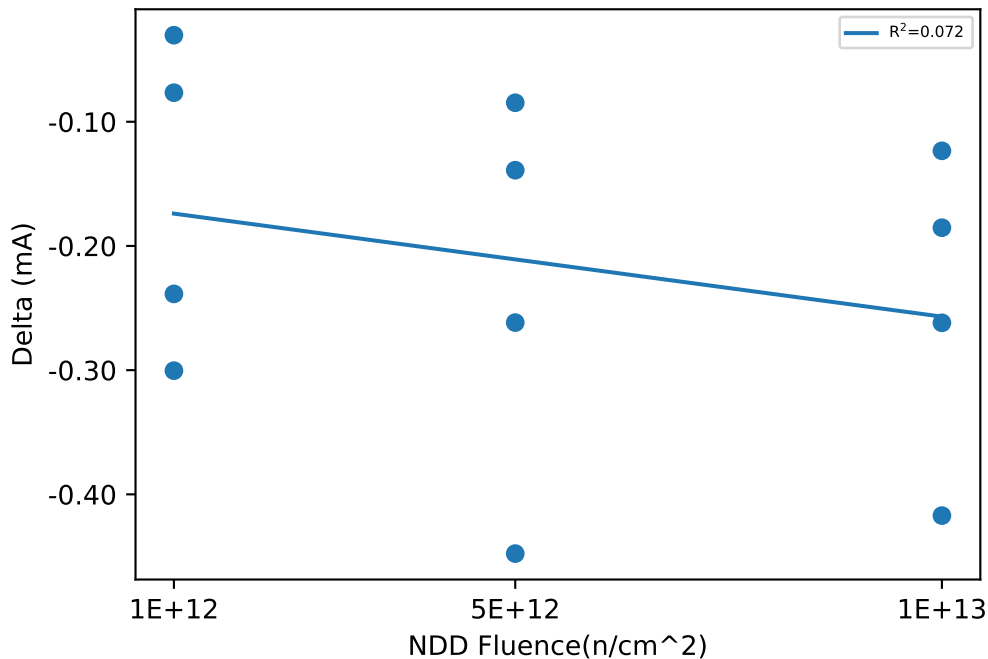
NDD vs Result Stats



Test Results (Upper Limit = 20.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		12.059	
55	0	CORRELATION		12.028	
56	0	CORRELATION		11.873	
64	1e+12	NDD	12.004	11.974	-0.0303
65	1e+12	NDD	12.685	12.384	-0.3004
66	1e+12	NDD	12.445	12.369	-0.0766
67	1e+12	NDD	12.421	12.183	-0.2386
68	5e+12	NDD	11.694	11.61	-0.0847
69	5e+12	NDD	12.638	12.191	-0.4477
70	5e+12	NDD	11.346	11.207	-0.139
71	5e+12	NDD	12.646	12.384	-0.2617
72	1e+13	NDD	12.035	11.85	-0.1853
73	1e+13	NDD	12.104	11.687	-0.4171
74	1e+13	NDD	11.826	11.702	-0.1234
75	1e+13	NDD	12.344	12.082	-0.2619

NDD vs Post - Pre Exposure Delta

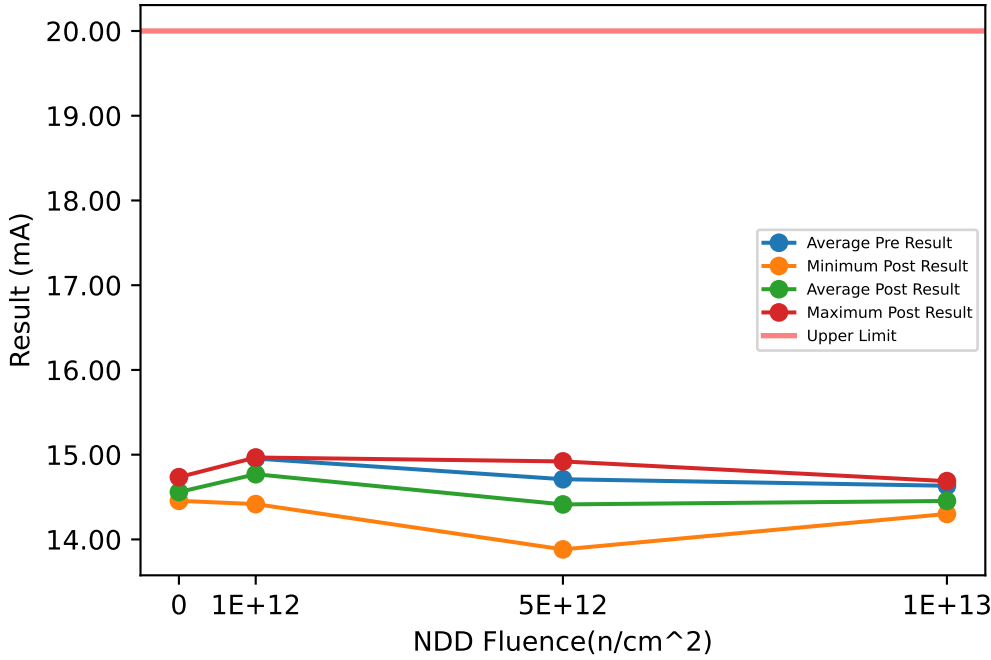


Test Statistics (mA)

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					11.873	11.986	12.059	0.099594				
1e+12	12.004	12.389	12.685	0.28283	11.974	12.227	12.384	0.19237	-0.3004	-0.16147	-0.0303	0.12866
5e+12	11.346	12.081	12.646	0.66338	11.207	11.848	12.384	0.53953	-0.4477	-0.23327	-0.0847	0.16098
1e+13	11.826	12.077	12.344	0.21362	11.687	11.83	12.082	0.18318	-0.4171	-0.24692	-0.1234	0.12681

Device Test: 11.17 IGND|SUPPLY/IN/14/13.3/7/2000//@I_GND_2A

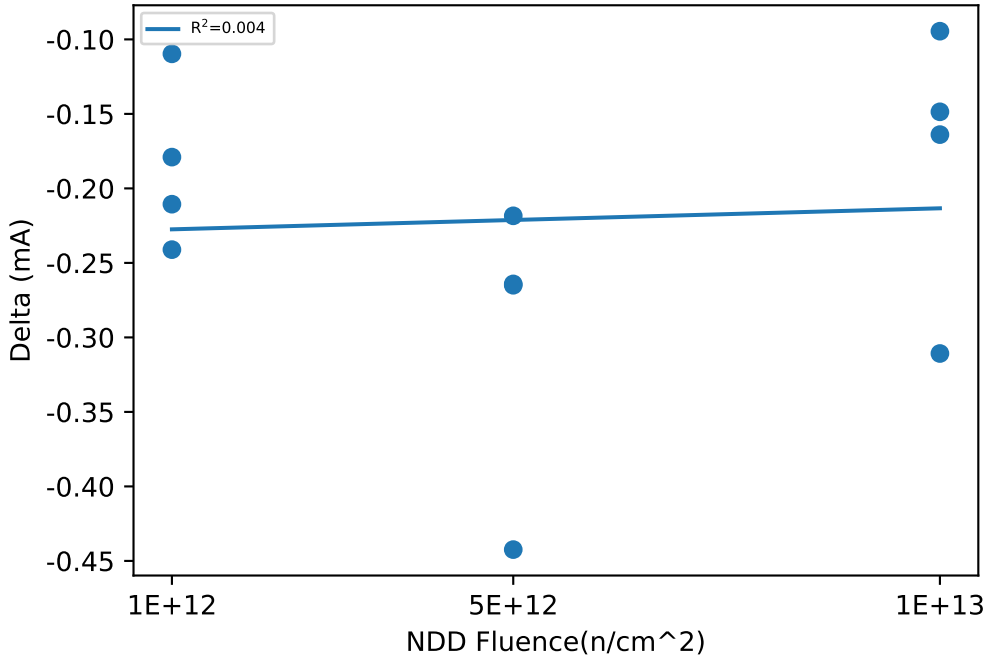
NDD vs Result Stats



Test Results (Upper Limit = 20.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		14.735	
55	0	CORRELATION		14.487	
56	0	CORRELATION		14.456	
64	1e+12	NDD	14.627	14.417	-0.2106
65	1e+12	NDD	15.146	14.967	-0.179
66	1e+12	NDD	15.053	14.944	-0.1097
67	1e+12	NDD	14.991	14.75	-0.2411
68	5e+12	NDD	14.318	14.099	-0.2184
69	5e+12	NDD	15.192	14.75	-0.4424
70	5e+12	NDD	14.147	13.882	-0.265
71	5e+12	NDD	15.185	14.921	-0.2641
72	1e+13	NDD	14.596	14.448	-0.1486
73	1e+13	NDD	14.542	14.378	-0.1639
74	1e+13	NDD	14.395	14.301	-0.0945
75	1e+13	NDD	14.999	14.688	-0.3108

NDD vs Post - Pre Exposure Delta

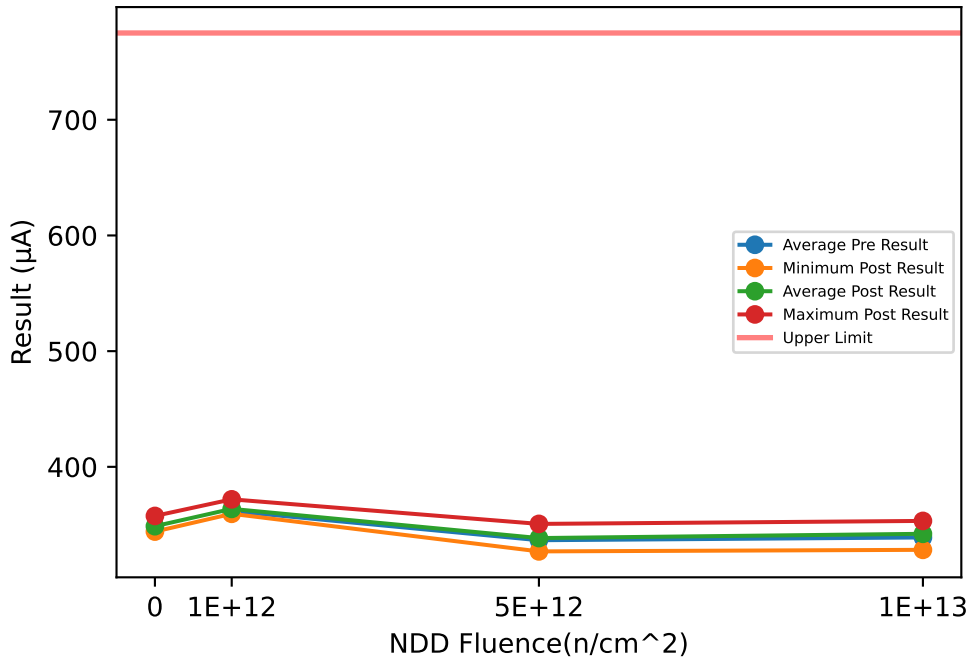


Test Statistics (mA)

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					14.456	14.559	14.735	0.15286				
1e+12	14.627	14.954	15.146	0.22712	14.417	14.769	14.967	0.25436	-0.2411	-0.1851	-0.1097	0.056299
5e+12	14.147	14.71	15.192	0.55638	13.882	14.413	14.921	0.50045	-0.4424	-0.29747	-0.2184	0.099036
1e+13	14.395	14.633	14.999	0.25822	14.301	14.454	14.688	0.16742	-0.3108	-0.17945	-0.0945	0.092489

Device Test: 11.2 ISHDN|SUPPLY/IN/3.3//0/0//@I_SHDN

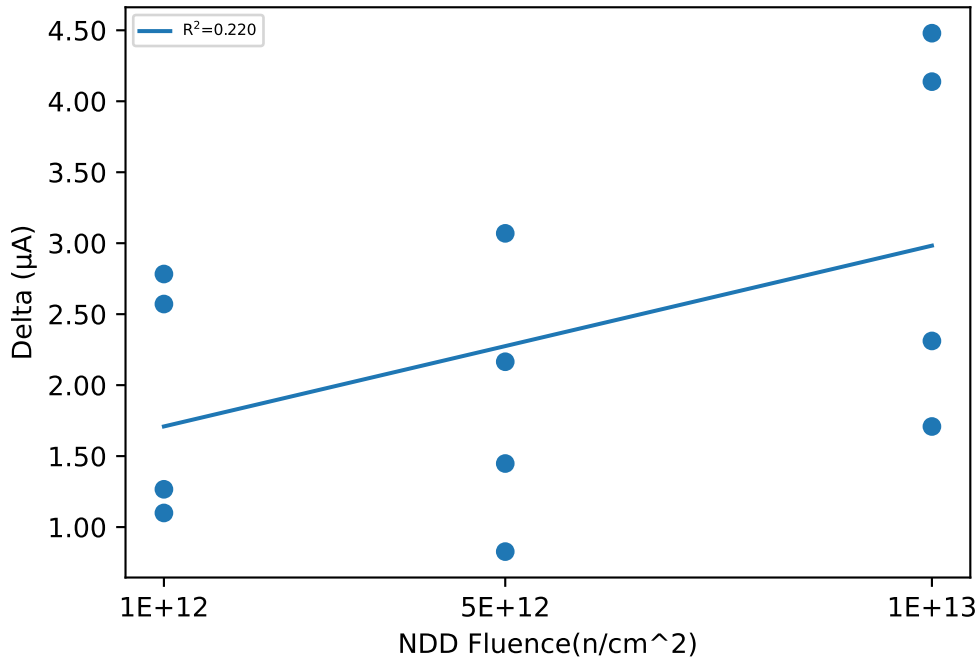
NDD vs Result Stats



Test Results (Upper Limit = 775.0 (µA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		344.48	
55	0	CORRELATION		357.55	
56	0	CORRELATION		344.04	
64	1e+12	NDD	360.9	363.69	2.7829
65	1e+12	NDD	358.37	359.63	1.2662
66	1e+12	NDD	370.81	371.91	1.0995
67	1e+12	NDD	356.83	359.4	2.5714
68	5e+12	NDD	344.36	346.53	2.1649
69	5e+12	NDD	347.61	350.68	3.0694
70	5e+12	NDD	328.2	329.65	1.4478
71	5e+12	NDD	326.08	326.91	0.8273
72	1e+13	NDD	332.35	334.06	1.7087
73	1e+13	NDD	324.12	328.26	4.1382
74	1e+13	NDD	350.94	353.25	2.3114
75	1e+13	NDD	348.39	352.87	4.4795

NDD vs Post - Pre Exposure Delta

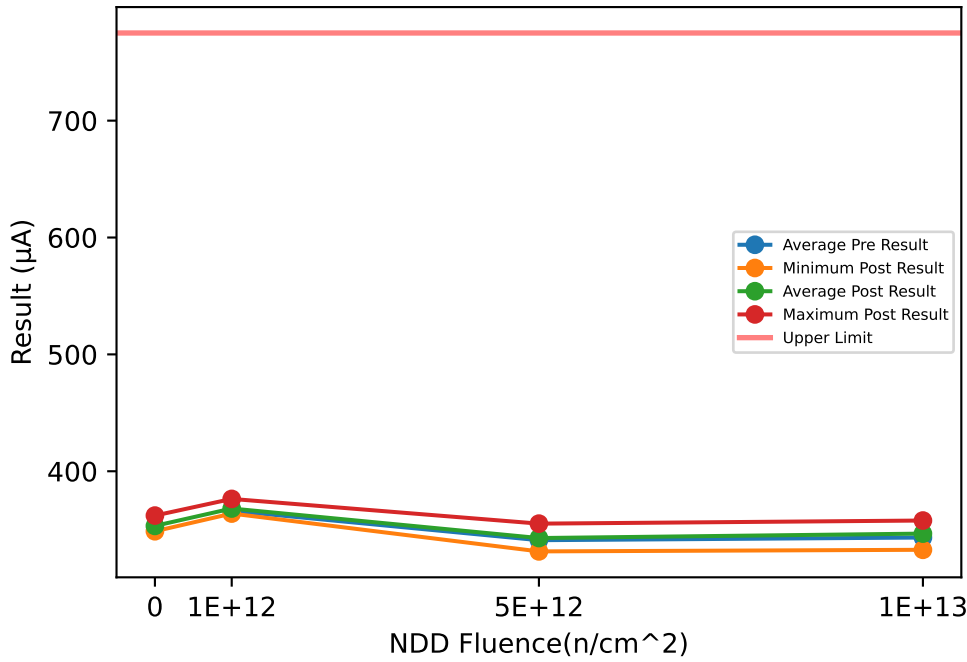


Test Statistics (µA)

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					344.04	348.69	357.55	7.6796				
1e+12	356.83	361.73	370.81	6.2858	359.4	363.66	371.91	5.8446	1.0995	1.93	2.7829	0.86971
5e+12	326.08	336.56	347.61	10.994	326.91	338.44	350.68	11.908	0.8273	1.8773	3.0694	0.9645
1e+13	324.12	338.95	350.94	12.862	328.26	342.11	353.25	12.865	1.7087	3.1594	4.4795	1.357

Device Test: 11.3 ISHDN|SUPPLY/IN/5//0/0//@I_SHDN

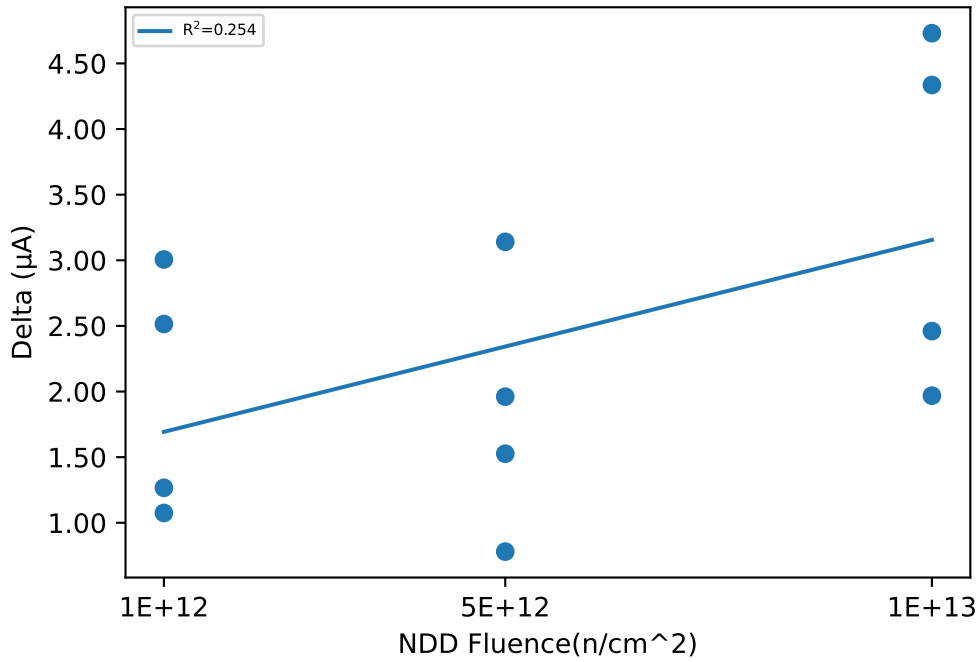
NDD vs Result Stats



Test Results (Upper Limit = 775.0 (µA))

Serial #	Fluence(n/cm²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		349.02	
55	0	CORRELATION		362.07	
56	0	CORRELATION		348.65	
64	1e+12	NDD	365.26	368.27	3.0064
65	1e+12	NDD	362.8	364.07	1.2666
66	1e+12	NDD	375.26	376.33	1.0749
67	1e+12	NDD	361.28	363.8	2.5147
68	5e+12	NDD	348.9	350.87	1.9611
69	5e+12	NDD	352.04	355.18	3.1405
70	5e+12	NDD	332.43	333.95	1.5263
71	5e+12	NDD	330.64	331.42	0.7805
72	1e+13	NDD	336.49	338.45	1.9686
73	1e+13	NDD	328.46	332.79	4.3355
74	1e+13	NDD	355.38	357.84	2.4605
75	1e+13	NDD	352.79	357.52	4.7303

NDD vs Post - Pre Exposure Delta

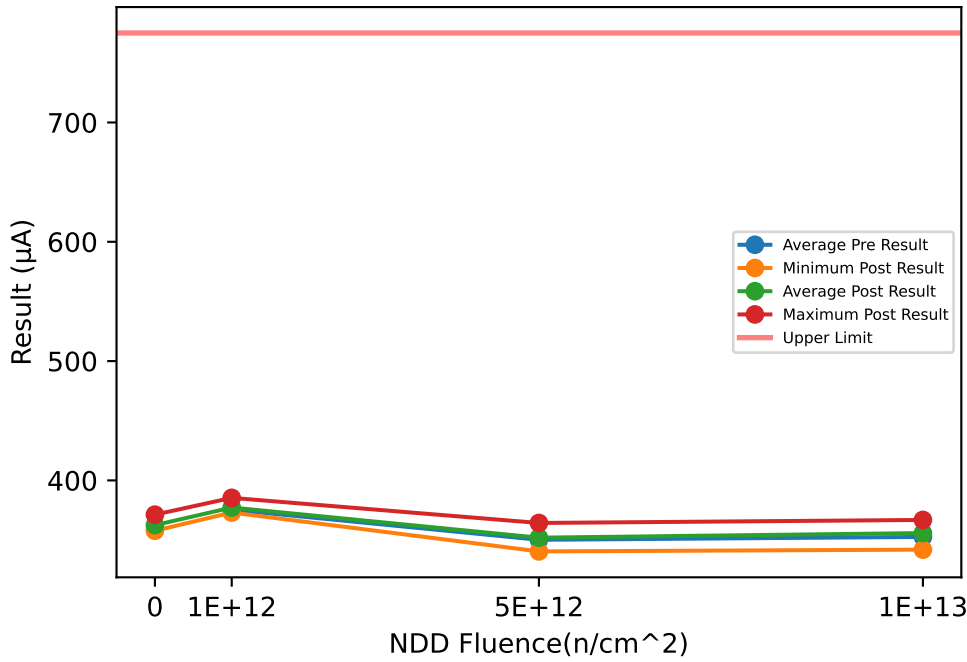


Test Statistics (µA)

Fluence(n/cm²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					348.65	353.25	362.07	7.6454				
1e+12	361.28	366.15	375.26	6.2887	363.8	368.12	376.33	5.8474	1.0749	1.9657	3.0064	0.94282
5e+12	330.64	341	352.04	11.03	331.42	342.86	355.18	11.914	0.7805	1.8521	3.1405	0.98764
1e+13	328.46	343.28	355.38	12.942	332.79	346.65	357.84	12.94	1.9686	3.3737	4.7303	1.363

Device Test: 11.4 ISHDN|SUPPLY/IN/7//0/0//@I_SHDN

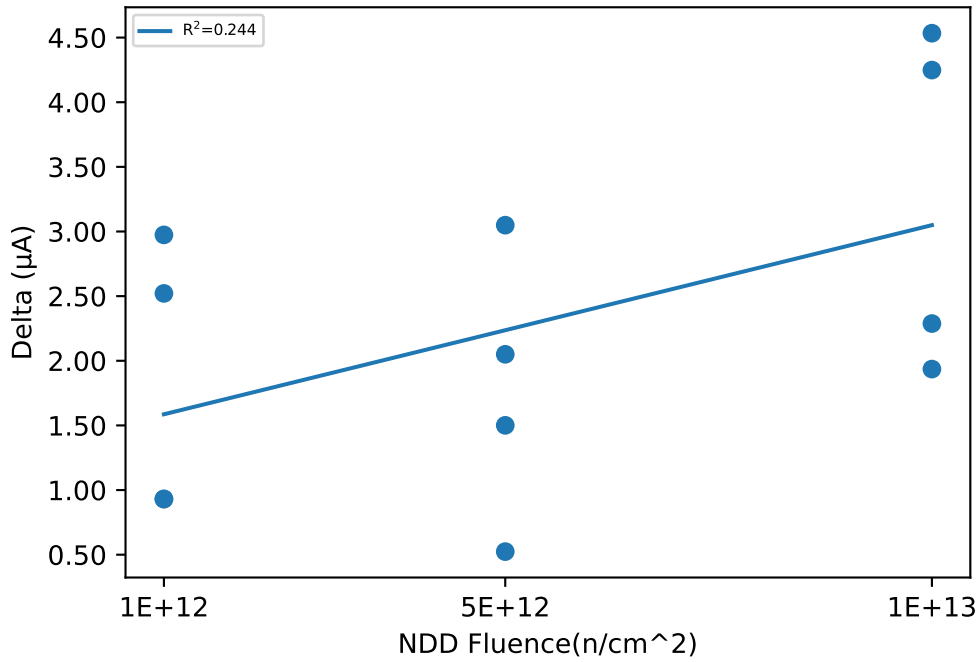
NDD vs Result Stats



Test Results (Upper Limit = 775.0 (µA))

Serial #	Fluence(n/cm²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		358.38	
55	0	CORRELATION		371.29	
56	0	CORRELATION		357.81	
64	1e+12	NDD	374.57	377.54	2.9738
65	1e+12	NDD	372.19	373.12	0.9316
66	1e+12	NDD	384.44	385.37	0.9299
67	1e+12	NDD	370.55	373.07	2.5211
68	5e+12	NDD	357.97	360.02	2.0501
69	5e+12	NDD	361.29	364.34	3.049
70	5e+12	NDD	341.65	343.15	1.5007
71	5e+12	NDD	339.98	340.5	0.524
72	1e+13	NDD	345.91	347.85	1.9358
73	1e+13	NDD	337.72	341.97	4.2486
74	1e+13	NDD	364.57	366.86	2.288
75	1e+13	NDD	362.28	366.81	4.5339

NDD vs Post - Pre Exposure Delta

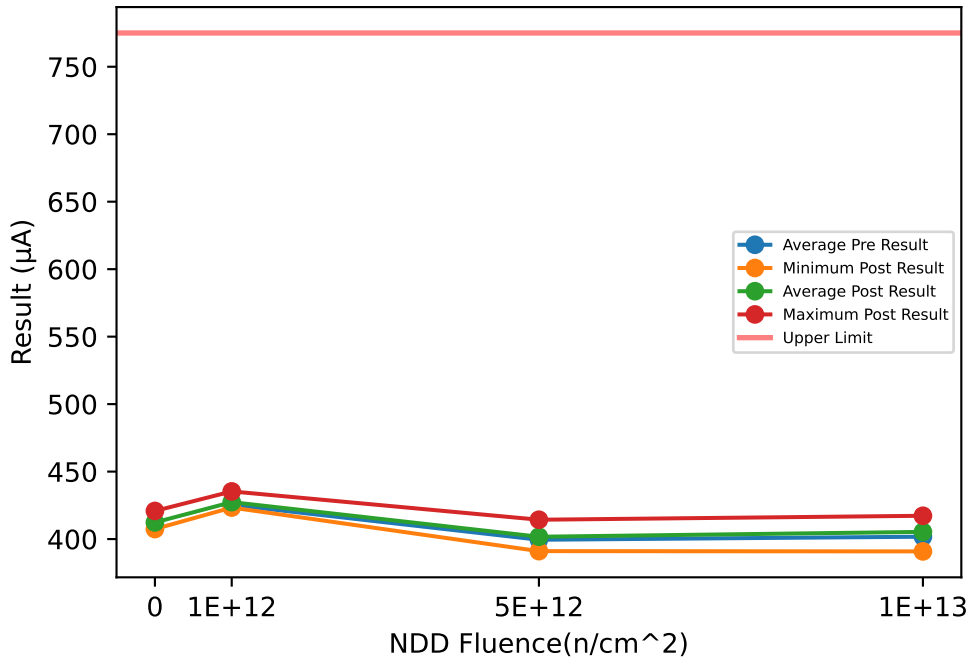


Test Statistics (µA)

Fluence(n/cm²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					357.81	362.5	371.29	7.623				
1e+12	370.55	375.44	384.44	6.2281	373.07	377.28	385.37	5.7921	0.9299	1.8391	2.9738	1.065
5e+12	339.98	350.22	361.29	10.967	340.5	352	364.34	11.93	0.524	1.781	3.049	1.055
1e+13	337.72	352.62	364.57	12.949	341.97	355.87	366.86	12.885	1.9358	3.2516	4.5339	1.3289

Device Test: 11.5 ISHDN|SUPPLY//IN/12//0/0//@I_SHDN

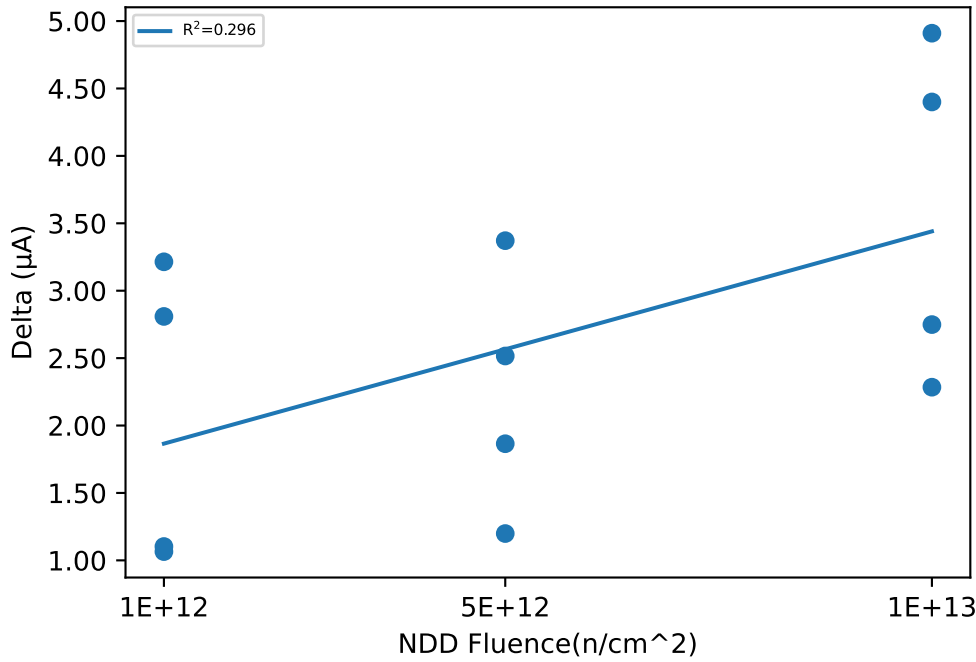
NDD vs Result Stats



Test Results (Upper Limit = 775.0 (µA))

Serial #	Fluence(n/cm²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		408.75	
55	0	CORRELATION		420.83	
56	0	CORRELATION		407.44	
64	1e+12	NDD	424.24	427.45	3.2144
65	1e+12	NDD	422.31	423.41	1.1027
66	1e+12	NDD	434.25	435.31	1.065
67	1e+12	NDD	420.53	423.34	2.8092
68	5e+12	NDD	407.23	409.75	2.5158
69	5e+12	NDD	410.96	414.33	3.3712
70	5e+12	NDD	389.91	391.77	1.8651
71	5e+12	NDD	389.86	391.06	1.1989
72	1e+13	NDD	394.34	396.63	2.2844
73	1e+13	NDD	386.47	390.87	4.4
74	1e+13	NDD	413.82	416.57	2.7488
75	1e+13	NDD	412.34	417.25	4.91

NDD vs Post - Pre Exposure Delta

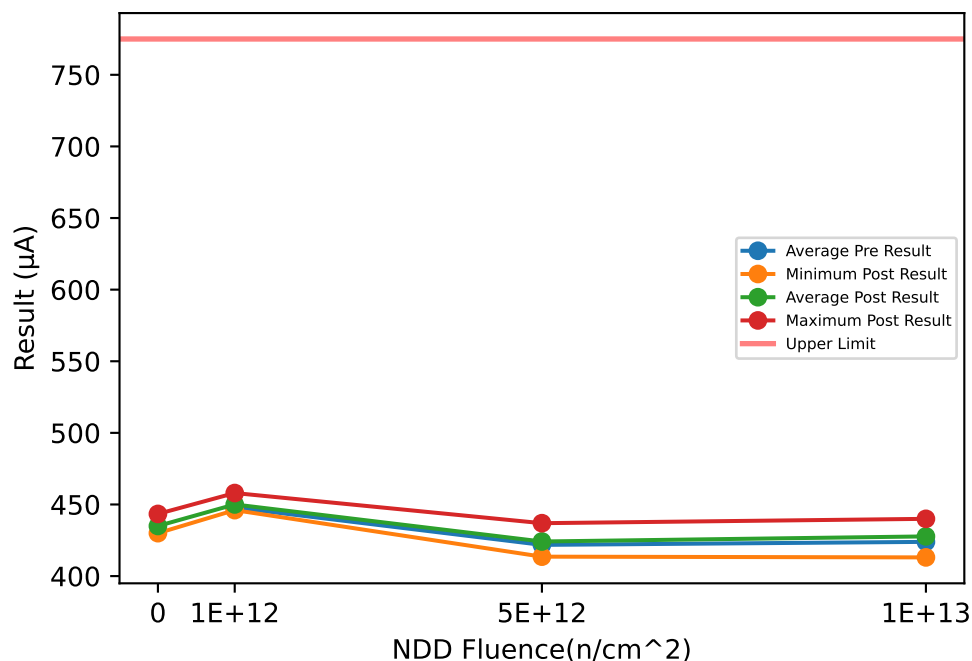


Test Statistics (µA)

Fluence(n/cm²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					407.44	412.34	420.83	7.3826				
1e+12	420.53	425.33	434.25	6.1338	423.34	427.38	435.31	5.6271	1.065	2.0478	3.2144	1.1254
5e+12	389.86	399.49	410.96	11.198	391.06	401.73	414.33	12.058	1.1989	2.2378	3.3712	0.92738
1e+13	386.47	401.74	413.82	13.495	390.87	405.33	417.25	13.582	2.2844	3.5858	4.91	1.2663

Device Test: 11.6 ISHDN|SUPPLY/IN/14//0/0//@I_SHDN

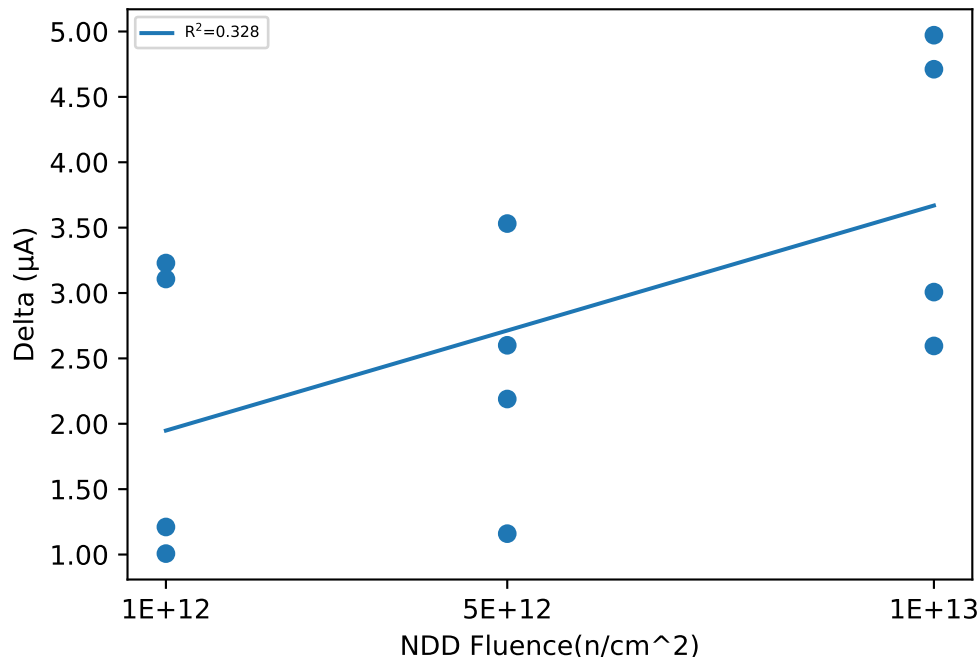
NDD vs Result Stats



Test Results (Upper Limit = 775.0 (µA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		431.59	
55	0	CORRELATION		443.4	
56	0	CORRELATION		429.97	
64	1e+12	NDD	446.64	449.87	3.2292
65	1e+12	NDD	444.96	446.17	1.2107
66	1e+12	NDD	456.99	457.99	1.0072
67	1e+12	NDD	442.94	446.05	3.1072
68	5e+12	NDD	429.63	432.23	2.6002
69	5e+12	NDD	433.41	436.94	3.5312
70	5e+12	NDD	411.7	413.89	2.1894
71	5e+12	NDD	412.41	413.57	1.1597
72	1e+13	NDD	416.11	418.71	2.5953
73	1e+13	NDD	408.34	413.05	4.7114
74	1e+13	NDD	436.11	439.12	3.0071
75	1e+13	NDD	435	439.97	4.9717

NDD vs Post - Pre Exposure Delta

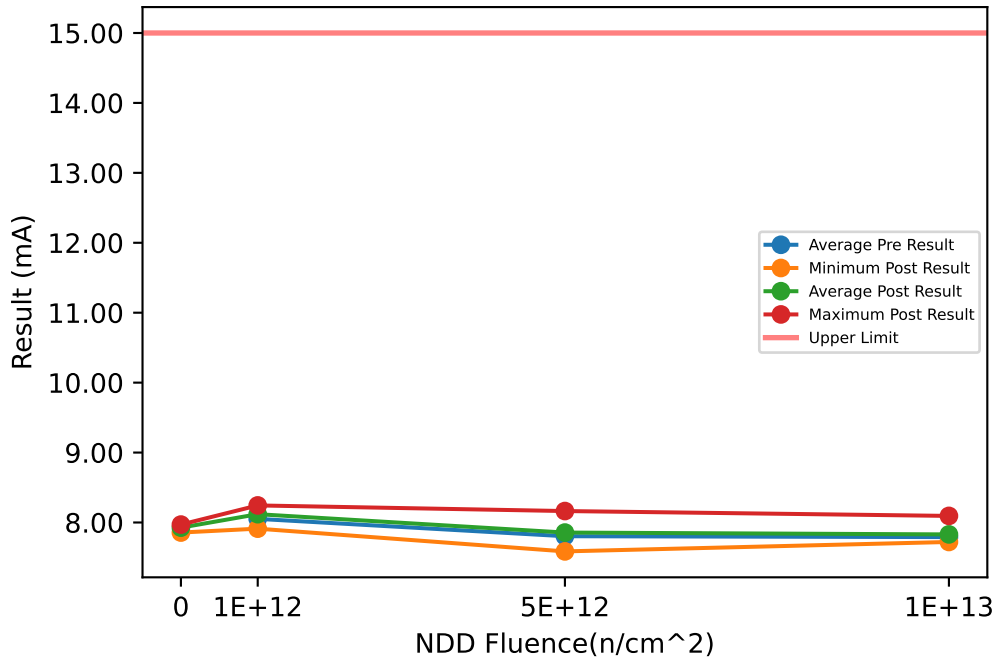


Test Statistics (µA)

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					429.97	434.99	443.4	7.3302				
1e+12	442.94	447.88	456.99	6.2546	446.05	450.02	457.99	5.6032	1.0072	2.1386	3.2292	1.1928
5e+12	411.7	421.79	433.41	11.346	413.57	424.16	436.94	12.194	1.1597	2.3701	3.5312	0.98299
1e+13	408.34	423.89	436.11	13.847	413.05	427.71	439.97	13.863	2.5953	3.8214	4.9717	1.1947

Device Test: 11.7 IQ|SUPPLY/IN/2.25/0.6/7/0//@I_Q

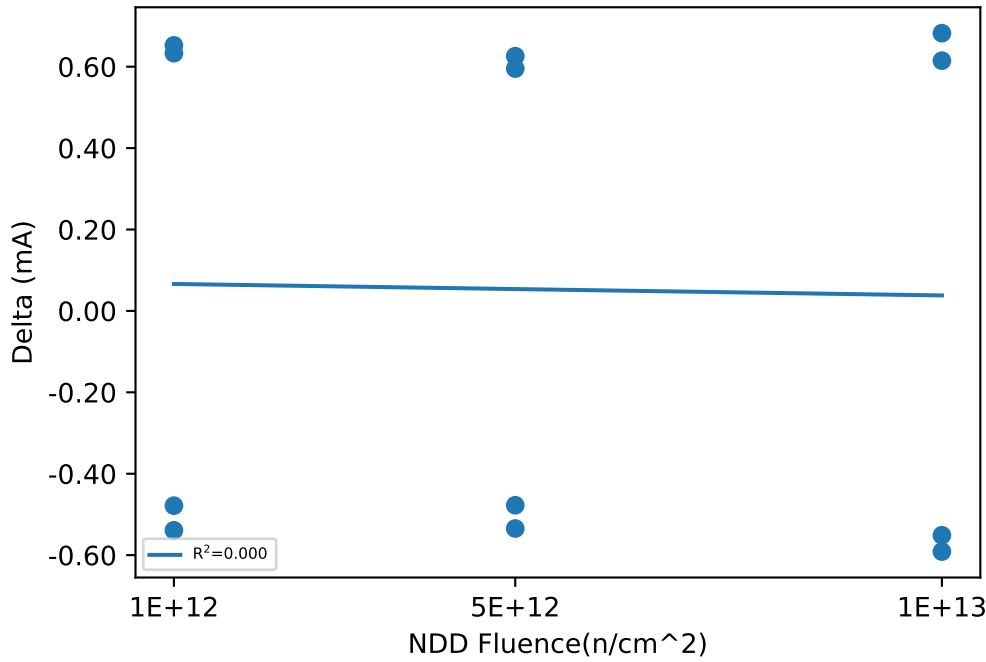
NDD vs Result Stats



Test Results (Upper Limit = 15.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		7.9701	
55	0	CORRELATION		7.9534	
56	0	CORRELATION		7.8562	
64	1e+12	NDD	8.3903	7.9118	-0.4785
65	1e+12	NDD	7.5413	8.1937	0.6524
66	1e+12	NDD	8.783	8.244	-0.539
67	1e+12	NDD	7.4925	8.1256	0.6331
68	5e+12	NDD	8.0854	7.608	-0.4774
69	5e+12	NDD	7.4702	8.0656	0.5954
70	5e+12	NDD	8.1212	7.5866	-0.5346
71	5e+12	NDD	7.5377	8.1636	0.6259
72	1e+13	NDD	8.3495	7.7582	-0.5913
73	1e+13	NDD	7.1066	7.7214	0.6148
74	1e+13	NDD	8.2962	7.745	-0.5512
75	1e+13	NDD	7.4118	8.0941	0.6823

NDD vs Post - Pre Exposure Delta

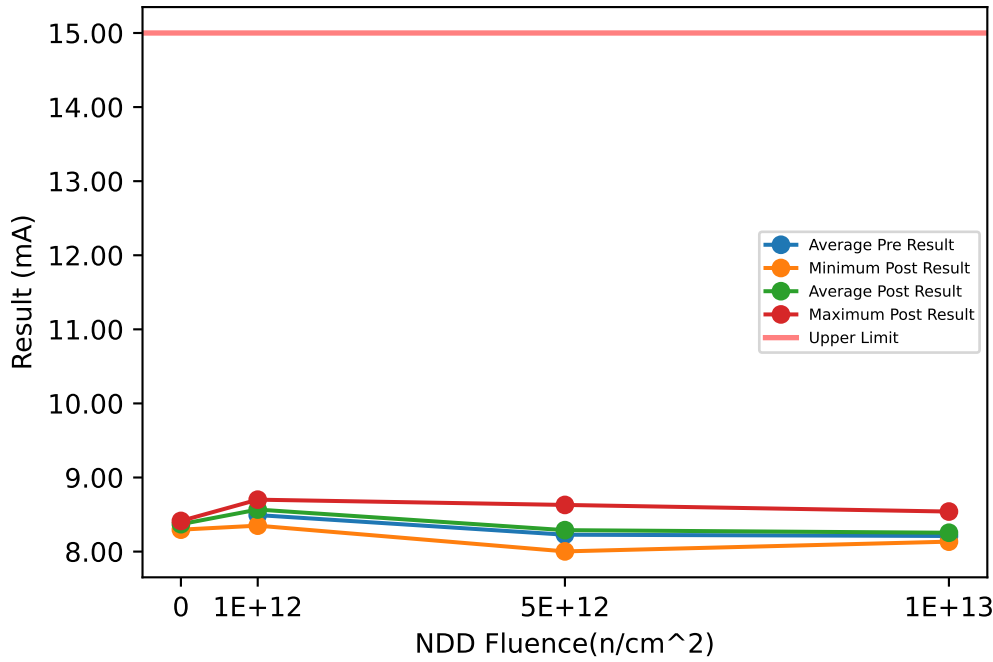


Test Statistics (mA)

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					7.8562	7.9266	7.9701	0.061509				
1e+12	7.4925	8.0518	8.783	0.6384	7.9118	8.1188	8.244	0.14626	-0.539	0.067	0.6524	0.66532
5e+12	7.4702	7.8036	8.1212	0.34744	7.5866	7.8559	8.1636	0.30146	-0.5346	0.052325	0.6259	0.64524
1e+13	7.1066	7.791	8.3495	0.62699	7.7214	7.8297	8.0941	0.17694	-0.5913	0.03865	0.6823	0.70498

Device Test: 11.9 IQ|SUPPLY/IN/14/0.6/7/0//@I_Q

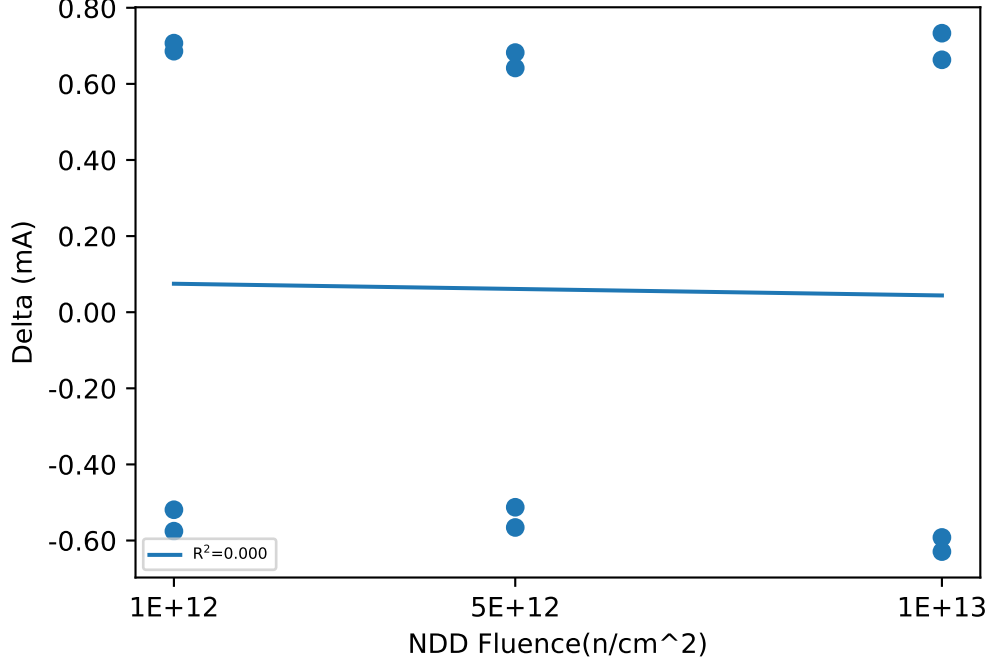
NDD vs Result Stats



Test Results (Upper Limit = 15.0 (mA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		8.4139	
55	0	CORRELATION		8.3999	
56	0	CORRELATION		8.296	
64	1e+12	NDD	8.8691	8.35	-0.5191
65	1e+12	NDD	7.9451	8.6522	0.7071
66	1e+12	NDD	9.2763	8.7009	-0.5754
67	1e+12	NDD	7.8811	8.567	0.6859
68	5e+12	NDD	8.5328	8.0202	-0.5126
69	5e+12	NDD	7.8627	8.5045	0.6418
70	5e+12	NDD	8.5683	8.0026	-0.5657
71	5e+12	NDD	7.9475	8.6298	0.6823
72	1e+13	NDD	8.8141	8.185	-0.6291
73	1e+13	NDD	7.4708	8.1341	0.6633
74	1e+13	NDD	8.7503	8.1584	-0.5919
75	1e+13	NDD	7.8073	8.5405	0.7332

NDD vs Post - Pre Exposure Delta

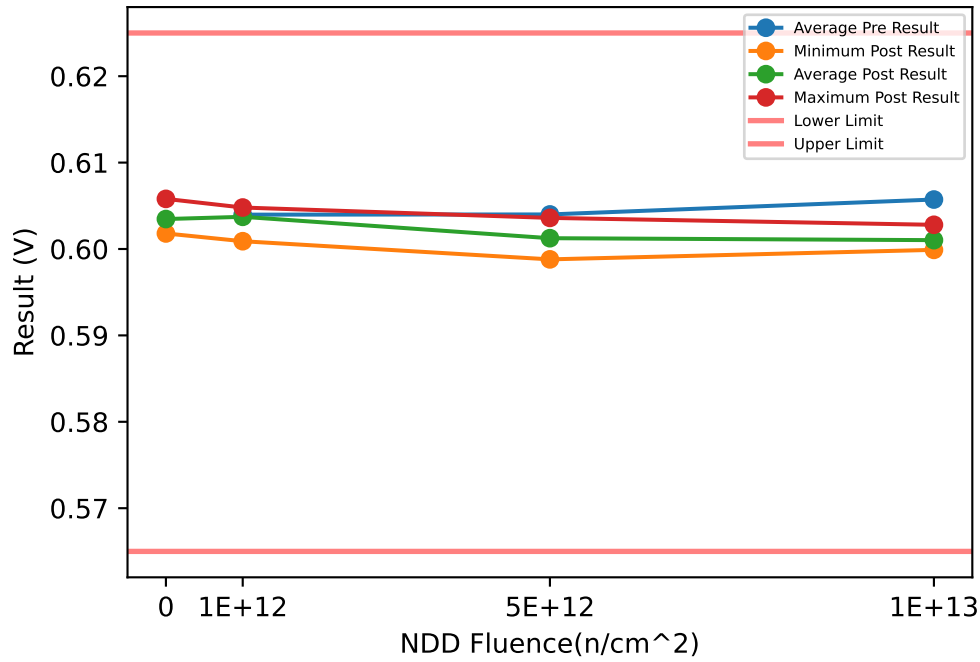


Test Statistics (mA)

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					8.296	8.3699	8.4139	0.06441				
1e+12	7.8811	8.4929	9.2763	0.69032	8.35	8.5675	8.7009	0.15522	-0.5754	0.074625	0.7071	0.7185
5e+12	7.8627	8.2278	8.5683	0.37454	8.0026	8.2893	8.6298	0.32499	-0.5657	0.06145	0.6823	0.69405
1e+13	7.4708	8.2106	8.8141	0.67465	8.1341	8.2545	8.5405	0.1918	-0.6291	0.043875	0.7332	0.7563

Device Test: 13.1 THRESHOLD|RISE/EN/2.25/0.6//10//@VIH_EN

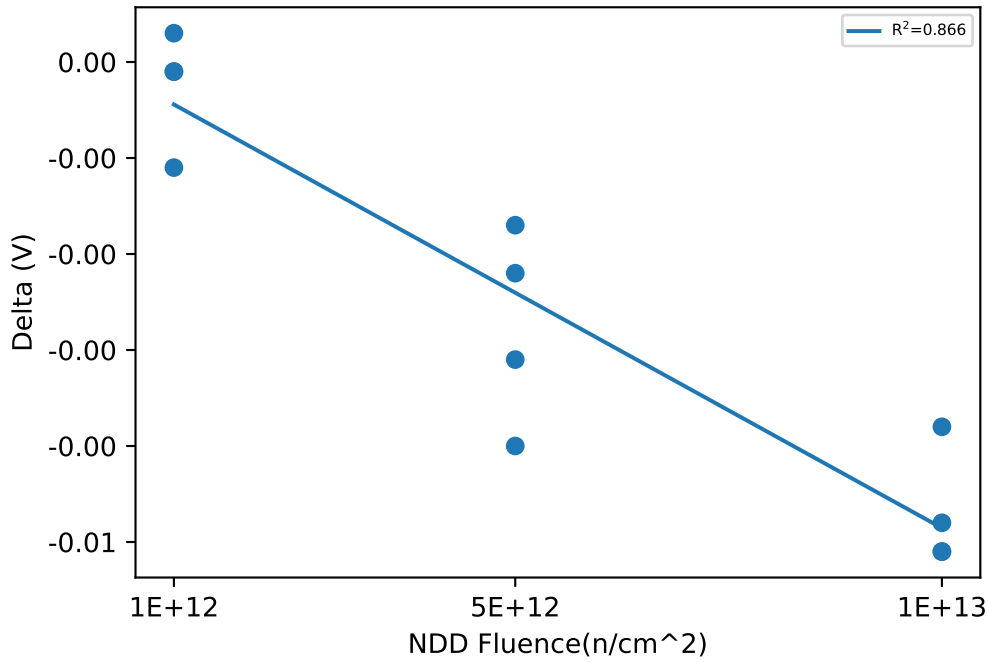
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6058	
55	0	CORRELATION		0.6028	
56	0	CORRELATION		0.6018	
64	1e+12	NDD	0.6006	0.6009	0.0003
65	1e+12	NDD	0.6047	0.6046	-0.0001
66	1e+12	NDD	0.6057	0.6046	-0.0011
67	1e+12	NDD	0.6049	0.6048	-0.0001
68	5e+12	NDD	0.6005	0.5988	-0.0017
69	5e+12	NDD	0.6067	0.6036	-0.0031
70	5e+12	NDD	0.605	0.6028	-0.0022
71	5e+12	NDD	0.6038	0.5998	-0.004
72	1e+13	NDD	0.605	0.5999	-0.0051
73	1e+13	NDD	0.6056	0.6008	-0.0048
74	1e+13	NDD	0.6057	0.6006	-0.0051
75	1e+13	NDD	0.6066	0.6028	-0.0038

NDD vs Post - Pre Exposure Delta

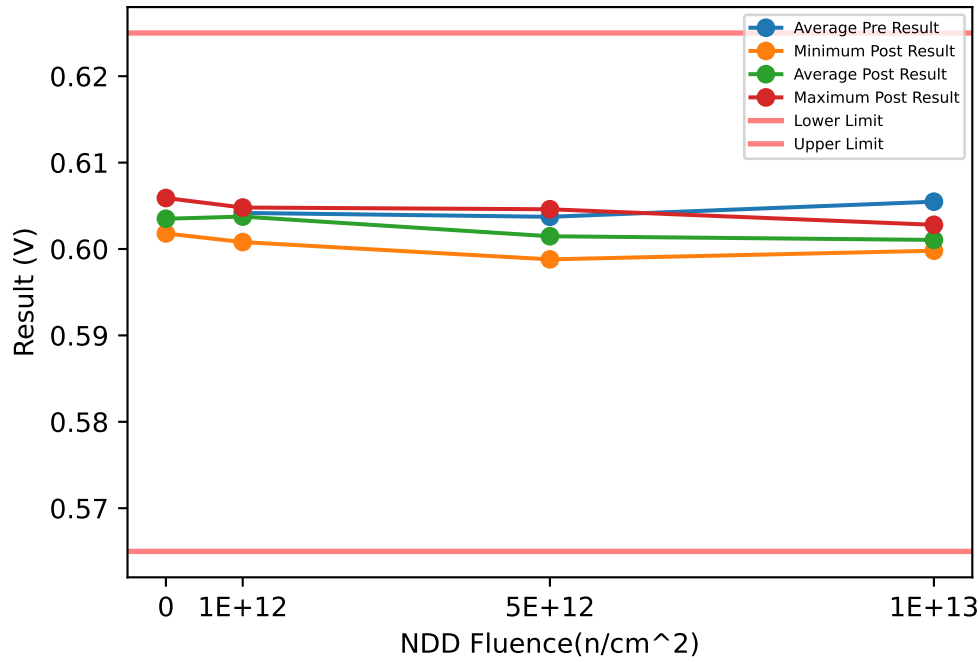


Test Statistics (V)

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					0.6018	0.60347	0.6058	0.0020817				
1e+12	0.6006	0.60398	0.6057	0.0022911	0.6009	0.60373	0.6048	0.0018857	-0.0011	-0.00025	0.0003	0.00059722
5e+12	0.6005	0.604	0.6067	0.0026192	0.5988	0.60125	0.6036	0.0023116	-0.004	-0.00275	-0.0017	0.0010149
1e+13	0.605	0.60573	0.6066	0.00066018	0.5999	0.60103	0.6028	0.0012447	-0.0051	-0.0047	-0.0038	0.00061644

Device Test: 13.10 THRESHOLD|RISE/EN/7/0.6//10//@VIH_EN

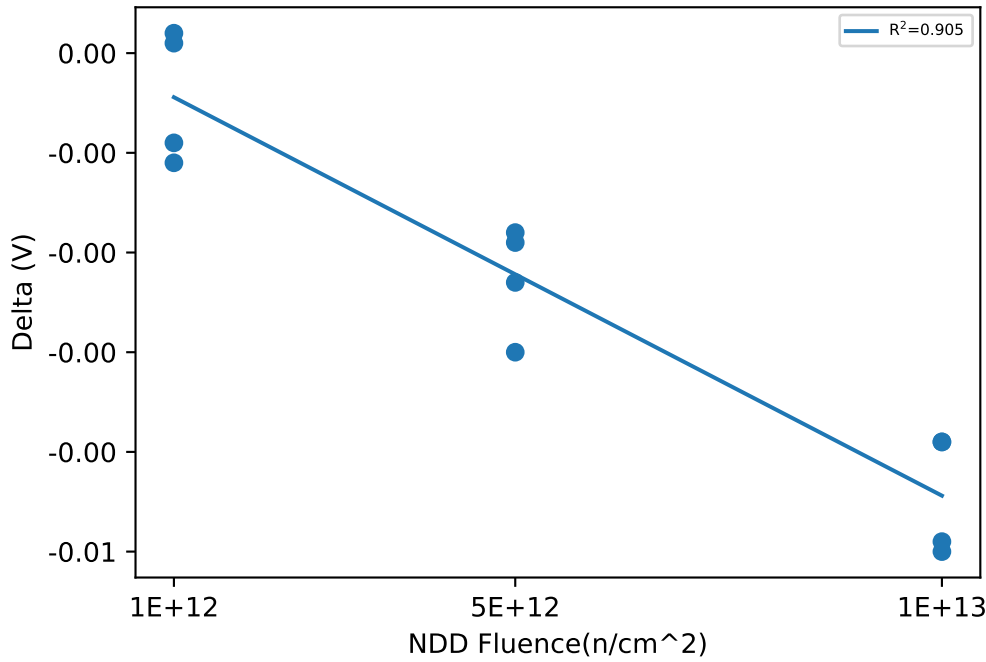
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6059	
55	0	CORRELATION		0.6028	
56	0	CORRELATION		0.6018	
64	1e+12	NDD	0.6017	0.6008	-0.0009
65	1e+12	NDD	0.6047	0.6048	0.0001
66	1e+12	NDD	0.6057	0.6046	-0.0011
67	1e+12	NDD	0.6046	0.6048	0.0002
68	5e+12	NDD	0.6007	0.5988	-0.0019
69	5e+12	NDD	0.6069	0.6046	-0.0023
70	5e+12	NDD	0.6046	0.6016	-0.003
71	5e+12	NDD	0.6027	0.6009	-0.0018
72	1e+13	NDD	0.6048	0.5998	-0.005
73	1e+13	NDD	0.6057	0.6008	-0.0049
74	1e+13	NDD	0.6047	0.6008	-0.0039
75	1e+13	NDD	0.6067	0.6028	-0.0039

NDD vs Post - Pre Exposure Delta

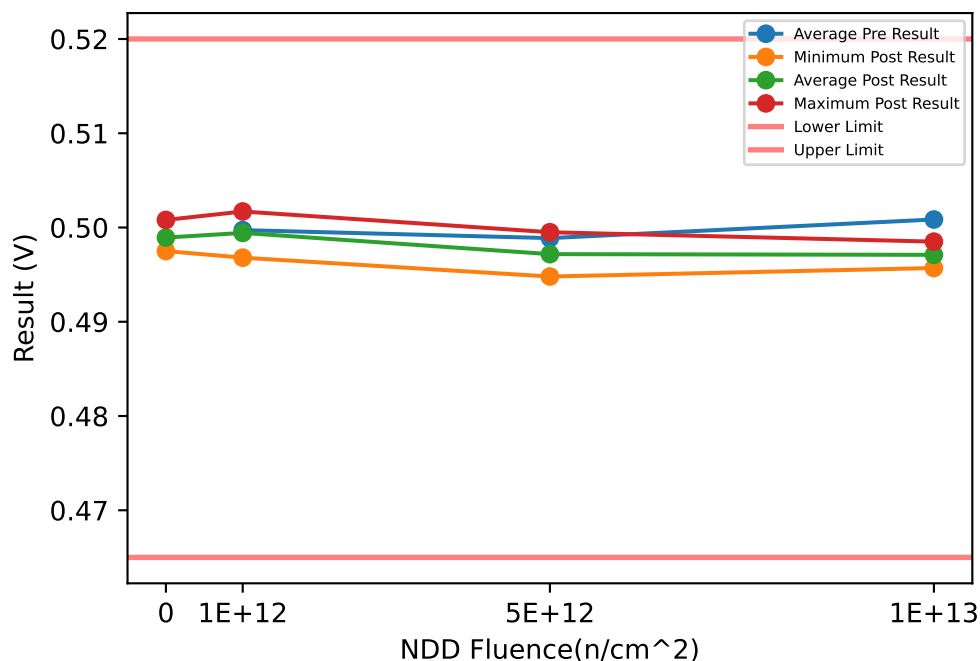


Test Statistics (V)

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					0.6018	0.6035	0.6059	0.0021378				
1e+12	0.6017	0.60418	0.6057	0.0017231	0.6008	0.60375	0.6048	0.0019689	-0.0011	-0.000425	0.0002	0.0006702
5e+12	0.6007	0.60373	0.6069	0.0026487	0.5988	0.60147	0.6046	0.0023991	-0.003	-0.00225	-0.0018	0.00054467
1e+13	0.6047	0.60547	0.6067	0.00093229	0.5998	0.60105	0.6028	0.0012583	-0.005	-0.004425	-0.0039	0.00060759

Device Test: 13.11 THRESHOLD|FALL/EN/7/0.6//10//@VIL_EN

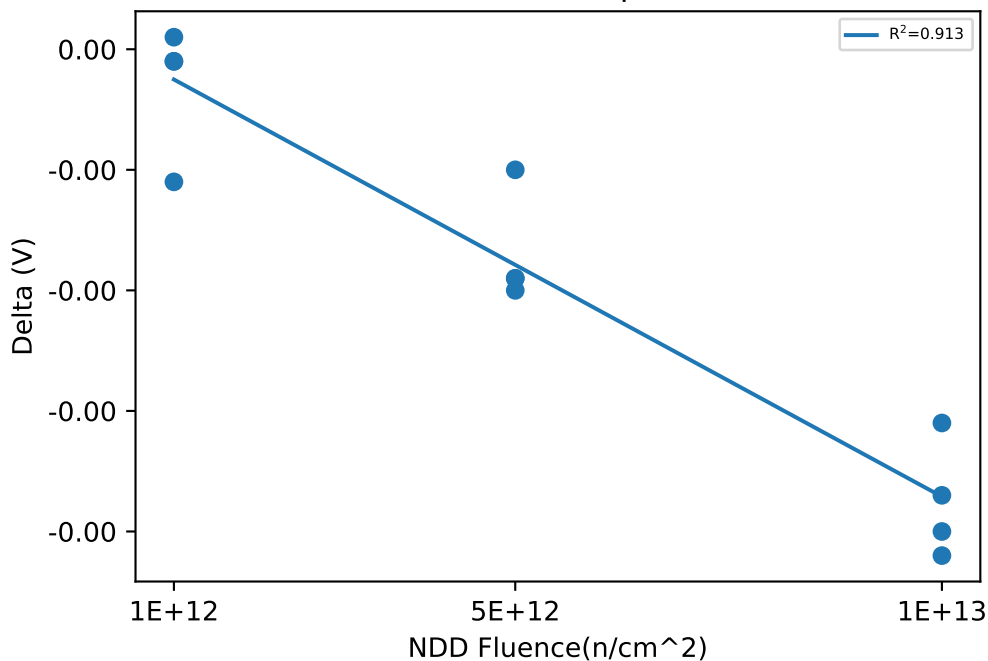
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5008	
55	0	CORRELATION		0.4985	
56	0	CORRELATION		0.4975	
64	1e+12	NDD	0.4967	0.4968	0.0001
65	1e+12	NDD	0.4998	0.4997	-0.0001
66	1e+12	NDD	0.5018	0.5017	-0.0001
67	1e+12	NDD	0.5006	0.4995	-0.0011
68	5e+12	NDD	0.4958	0.4948	-0.001
69	5e+12	NDD	0.5015	0.4995	-0.002
70	5e+12	NDD	0.4996	0.4977	-0.0019
71	5e+12	NDD	0.4986	0.4967	-0.0019
72	1e+13	NDD	0.4997	0.4957	-0.004
73	1e+13	NDD	0.5006	0.4975	-0.0031
74	1e+13	NDD	0.5004	0.4967	-0.0037
75	1e+13	NDD	0.5027	0.4985	-0.0042

NDD vs Post - Pre Exposure Delta

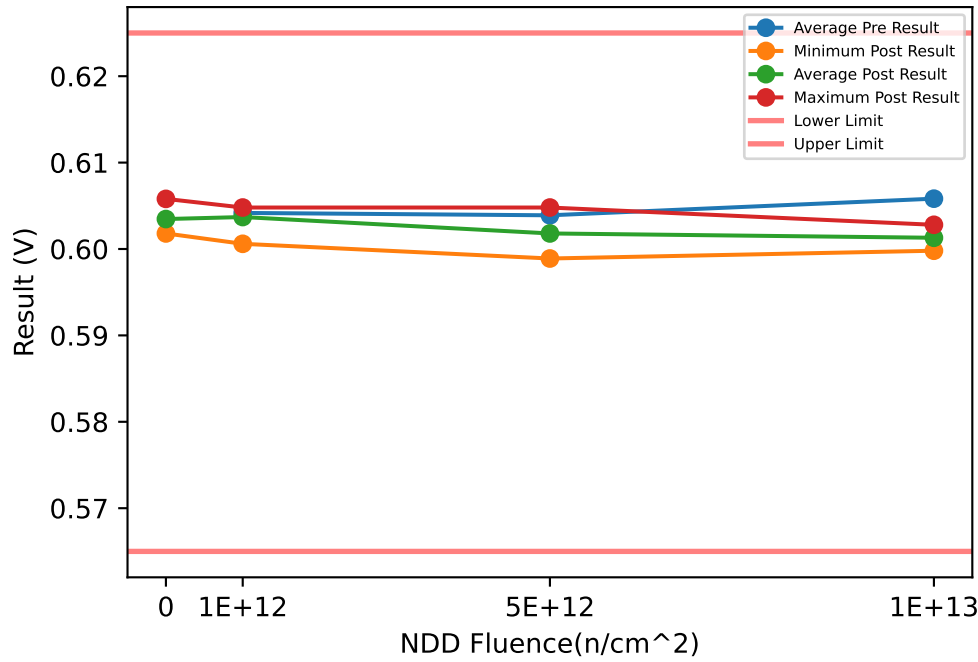


Test Statistics (V)

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					0.4975	0.49893	0.5008	0.0016921				
1e+12	0.4967	0.49972	0.5018	0.0021777	0.4968	0.49943	0.5017	0.0020123	-0.0011	-0.0003	0.0001	0.0005416
5e+12	0.4958	0.49887	0.5015	0.0023768	0.4948	0.49717	0.4995	0.0019619	-0.002	-0.0017	-0.001	0.00046904
1e+13	0.4997	0.50085	0.5027	0.0012923	0.4957	0.4971	0.4985	0.0011888	-0.0042	-0.00375	-0.0031	0.00047958

Device Test: 13.13 THRESHOLD|RISE/EN/12/0.6//10//@VIH_EN

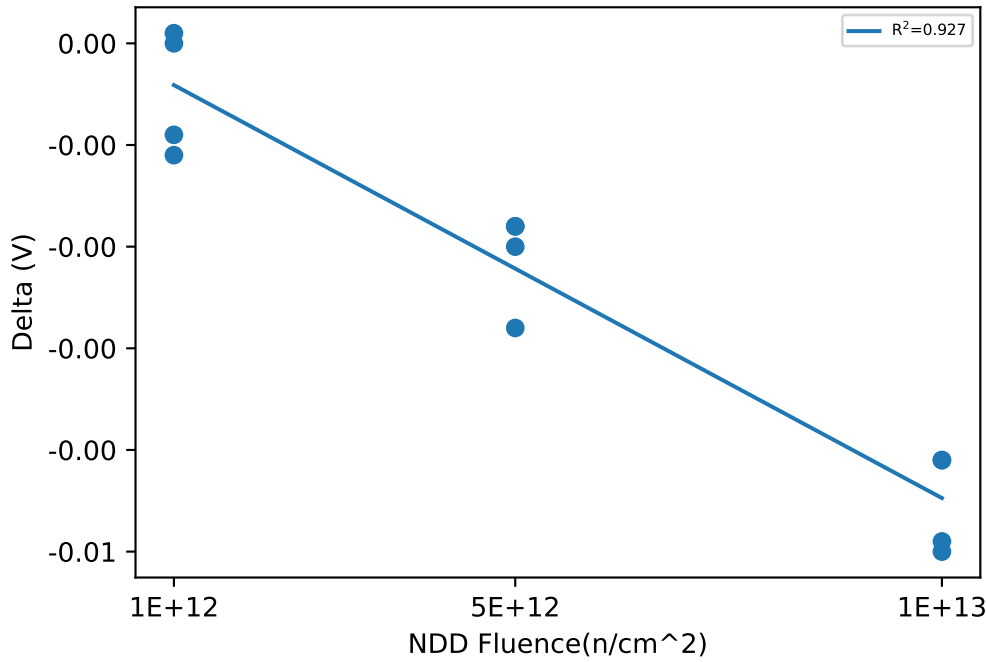
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6058	
55	0	CORRELATION		0.6028	
56	0	CORRELATION		0.6018	
64	1e+12	NDD	0.6017	0.6006	-0.0011
65	1e+12	NDD	0.6047	0.6048	0.0001
66	1e+12	NDD	0.6057	0.6048	-0.0009
67	1e+12	NDD	0.6046	0.6046	0
68	5e+12	NDD	0.6007	0.5989	-0.0018
69	5e+12	NDD	0.6066	0.6048	-0.0018
70	5e+12	NDD	0.6046	0.6026	-0.002
71	5e+12	NDD	0.6037	0.6009	-0.0028
72	1e+13	NDD	0.6048	0.5998	-0.005
73	1e+13	NDD	0.6059	0.6018	-0.0041
74	1e+13	NDD	0.6057	0.6008	-0.0049
75	1e+13	NDD	0.6069	0.6028	-0.0041

NDD vs Post - Pre Exposure Delta

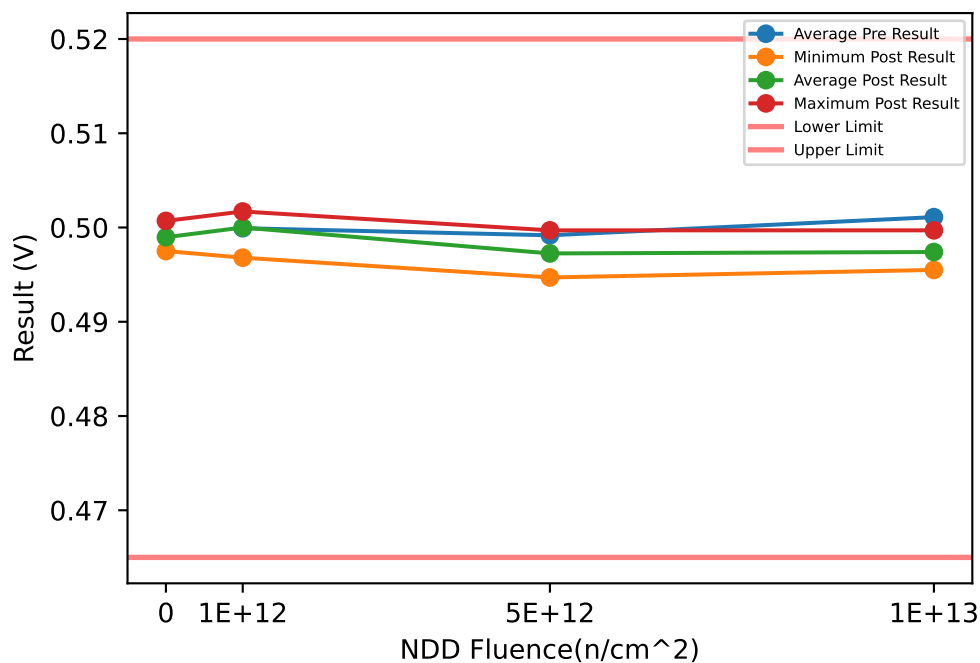


Test Statistics (V)

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					0.6018	0.60347	0.6058	0.0020817				
1e+12	0.6017	0.60418	0.6057	0.0017231	0.6006	0.6037	0.6048	0.0020688	-0.0011	-0.000475	0.0001	0.00061305
5e+12	0.6007	0.6039	0.6066	0.0024536	0.5989	0.6018	0.6048	0.0025073	-0.0028	-0.0021	-0.0018	0.0004761
1e+13	0.6048	0.60583	0.6069	0.00086168	0.5998	0.6013	0.6028	0.001291	-0.005	-0.004525	-0.0041	0.00049244

Device Test: 13.14 THRESHOLD|FALL/EN/12/0.6//10//@VIL_EN

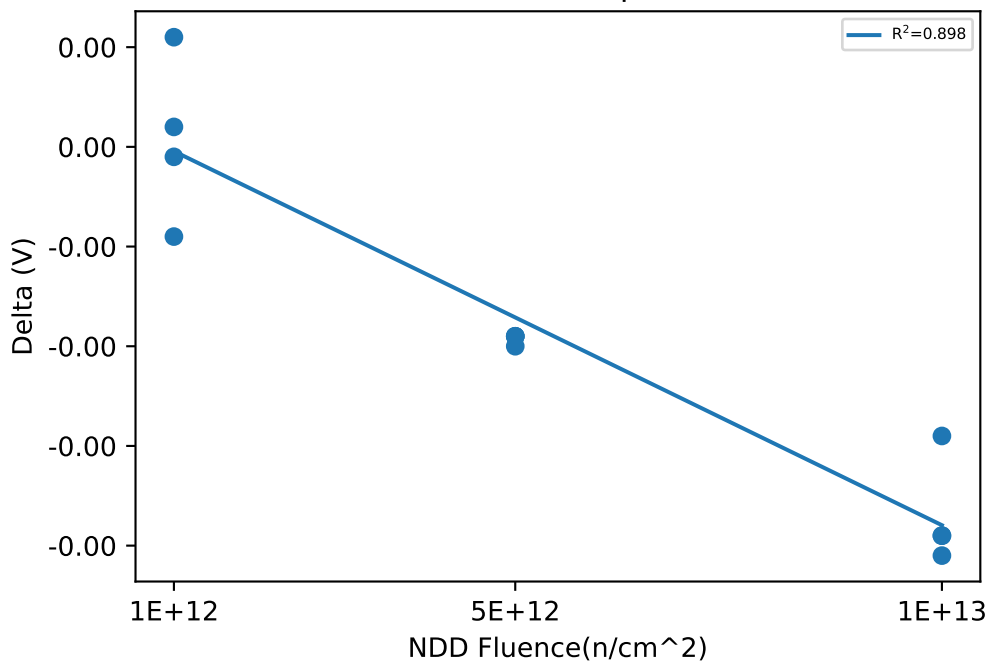
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5007	
55	0	CORRELATION		0.4987	
56	0	CORRELATION		0.4975	
64	1e+12	NDD	0.4977	0.4968	-0.0009
65	1e+12	NDD	0.5006	0.5008	0.0002
66	1e+12	NDD	0.5018	0.5017	-0.0001
67	1e+12	NDD	0.4996	0.5007	0.0011
68	5e+12	NDD	0.4967	0.4947	-0.002
69	5e+12	NDD	0.5016	0.4997	-0.0019
70	5e+12	NDD	0.4997	0.4978	-0.0019
71	5e+12	NDD	0.4987	0.4968	-0.0019
72	1e+13	NDD	0.4996	0.4955	-0.0041
73	1e+13	NDD	0.5016	0.4977	-0.0039
74	1e+13	NDD	0.5006	0.4967	-0.0039
75	1e+13	NDD	0.5026	0.4997	-0.0029

NDD vs Post - Pre Exposure Delta

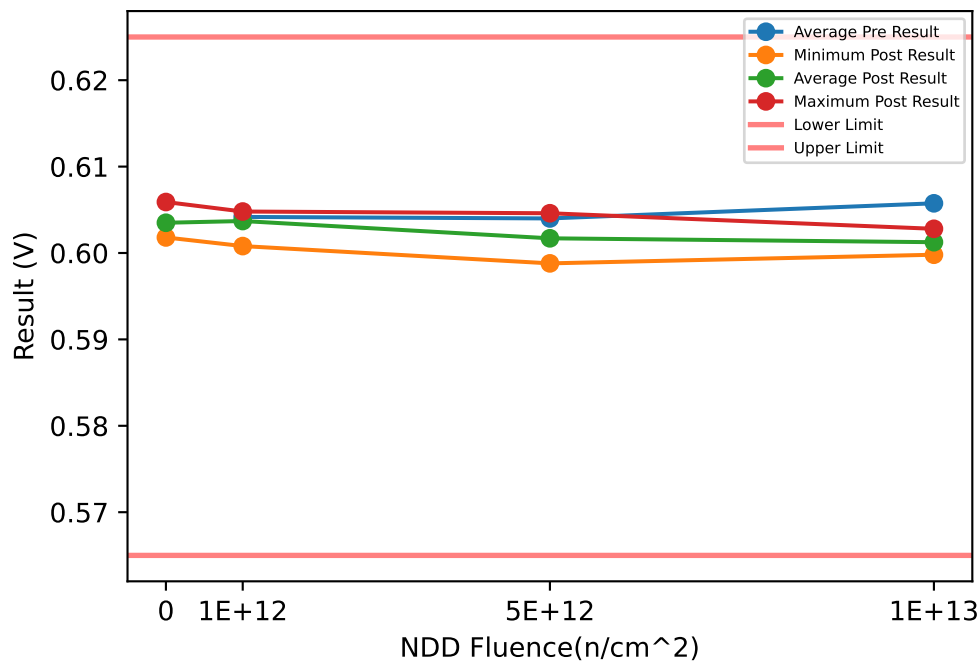


Test Statistics (V)

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					0.4975	0.49897	0.5007	0.0016166				
1e+12	0.4977	0.49993	0.5018	0.0017347	0.4968	0.5	0.5017	0.0021802	-0.0009	7.5e-05	0.0011	0.00082614
5e+12	0.4967	0.49917	0.5016	0.0020419	0.4947	0.49725	0.4997	0.0020825	-0.002	-0.001925	-0.0019	5e-05
1e+13	0.4996	0.5011	0.5026	0.001291	0.4955	0.4974	0.4997	0.0017776	-0.0041	-0.0037	-0.0029	0.0005416

Device Test: 13.16 THRESHOLD|RISE/EN/14/0.6//10//@VIH_EN

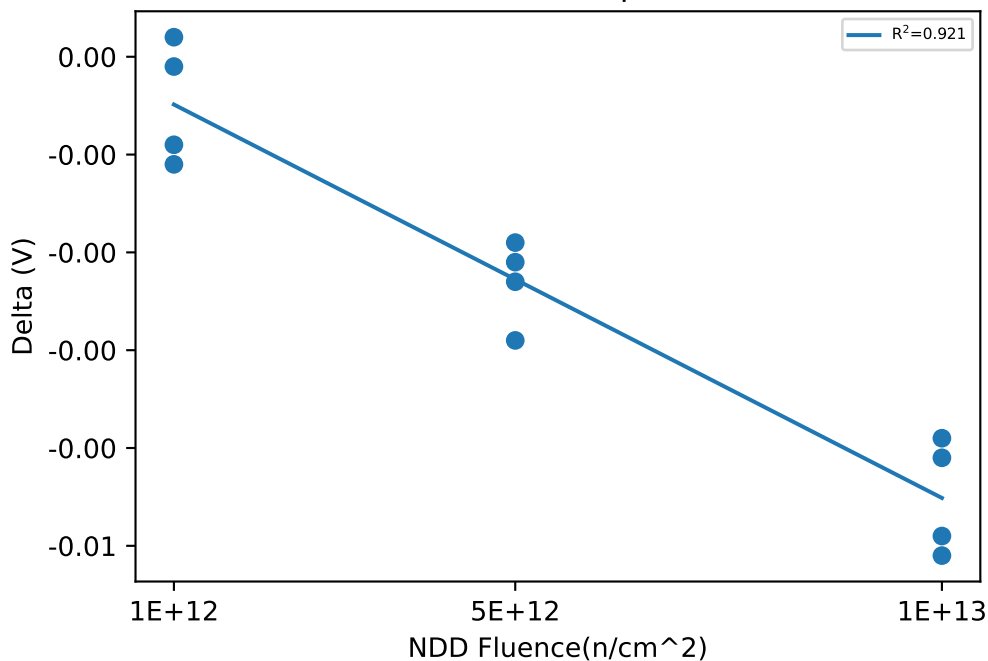
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6059	
55	0	CORRELATION		0.6028	
56	0	CORRELATION		0.6018	
64	1e+12	NDD	0.6017	0.6008	-0.0009
65	1e+12	NDD	0.6046	0.6048	0.0002
66	1e+12	NDD	0.6057	0.6046	-0.0011
67	1e+12	NDD	0.6047	0.6046	-0.0001
68	5e+12	NDD	0.6007	0.5988	-0.0019
69	5e+12	NDD	0.6069	0.6046	-0.0023
70	5e+12	NDD	0.6047	0.6026	-0.0021
71	5e+12	NDD	0.6037	0.6008	-0.0029
72	1e+13	NDD	0.6047	0.5998	-0.0049
73	1e+13	NDD	0.6059	0.6018	-0.0041
74	1e+13	NDD	0.6057	0.6006	-0.0051
75	1e+13	NDD	0.6067	0.6028	-0.0039

NDD vs Post - Pre Exposure Delta

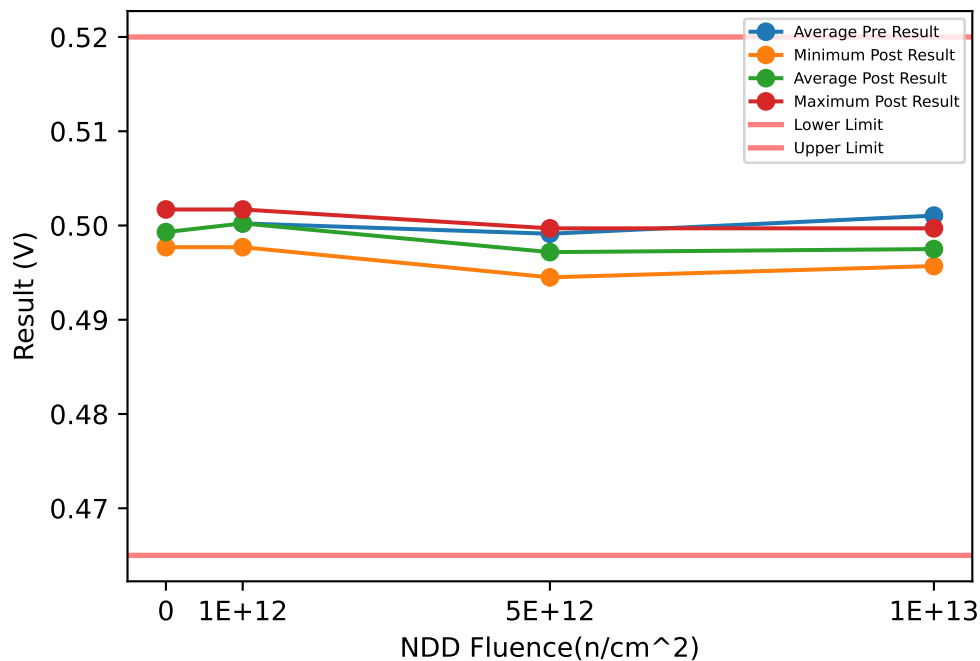


Test Statistics (V)

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					0.6018	0.6035	0.6059	0.0021378				
1e+12	0.6017	0.60418	0.6057	0.0017231	0.6008	0.6037	0.6048	0.0019356	-0.0011	-0.000475	0.0002	0.00062383
5e+12	0.6007	0.604	0.6069	0.0025742	0.5988	0.6017	0.6046	0.0024792	-0.0029	-0.0023	-0.0019	0.00043205
1e+13	0.6047	0.60575	0.6067	0.0008226	0.5998	0.60125	0.6028	0.0013204	-0.0051	-0.0045	-0.0039	0.00058878

Device Test: 13.17 THRESHOLD|FALL/EN/14/0.6//10//@VIL_EN

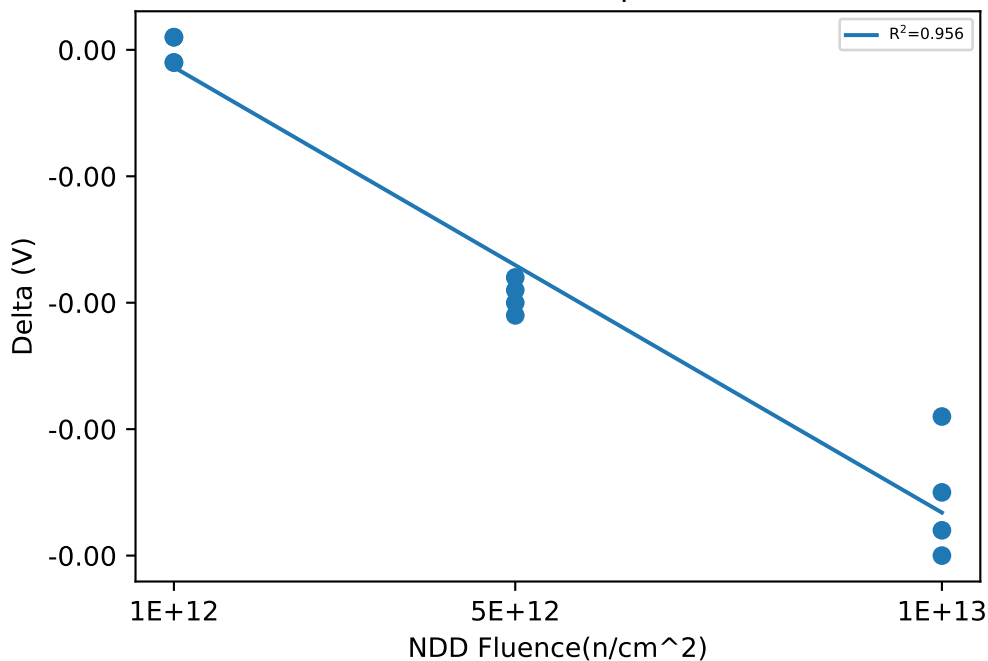
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5017	
55	0	CORRELATION		0.4985	
56	0	CORRELATION		0.4977	
64	1e+12	NDD	0.4978	0.4977	-0.0001
65	1e+12	NDD	0.5006	0.5007	0.0001
66	1e+12	NDD	0.5018	0.5017	-0.0001
67	1e+12	NDD	0.5007	0.5008	0.0001
68	5e+12	NDD	0.4966	0.4945	-0.0021
69	5e+12	NDD	0.5016	0.4997	-0.0019
70	5e+12	NDD	0.4997	0.4977	-0.002
71	5e+12	NDD	0.4986	0.4968	-0.0018
72	1e+13	NDD	0.4997	0.4957	-0.004
73	1e+13	NDD	0.5013	0.4978	-0.0035
74	1e+13	NDD	0.5006	0.4968	-0.0038
75	1e+13	NDD	0.5026	0.4997	-0.0029

NDD vs Post - Pre Exposure Delta

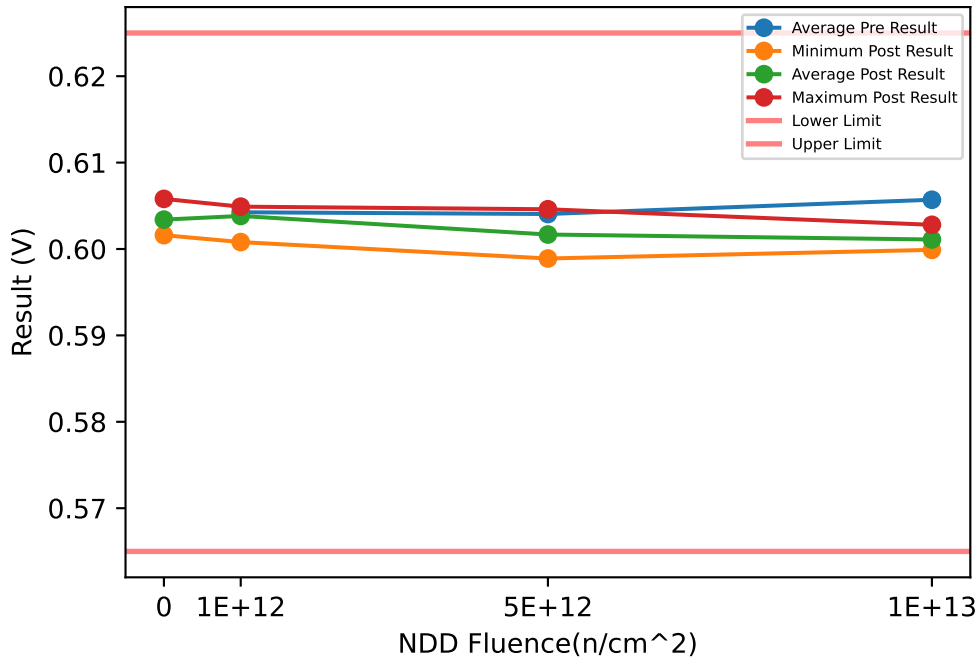


Test Statistics (V)

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					0.4977	0.4993	0.5017	0.0021166				
1e+12	0.4978	0.50023	0.5018	0.0017056	0.4977	0.50023	0.5017	0.0017424	-0.0001	-1.3878e-17	0.0001	0.00011547
5e+12	0.4966	0.49912	0.5016	0.0020903	0.4945	0.49717	0.4997	0.0021562	-0.0021	-0.00195	-0.0018	0.0001291
1e+13	0.4997	0.50105	0.5026	0.0012234	0.4957	0.4975	0.4997	0.001699	-0.004	-0.00355	-0.0029	0.00047958

Device Test: 13.19 THRESHOLD|RISE/EN/14/13.9//10//@VIH_EN

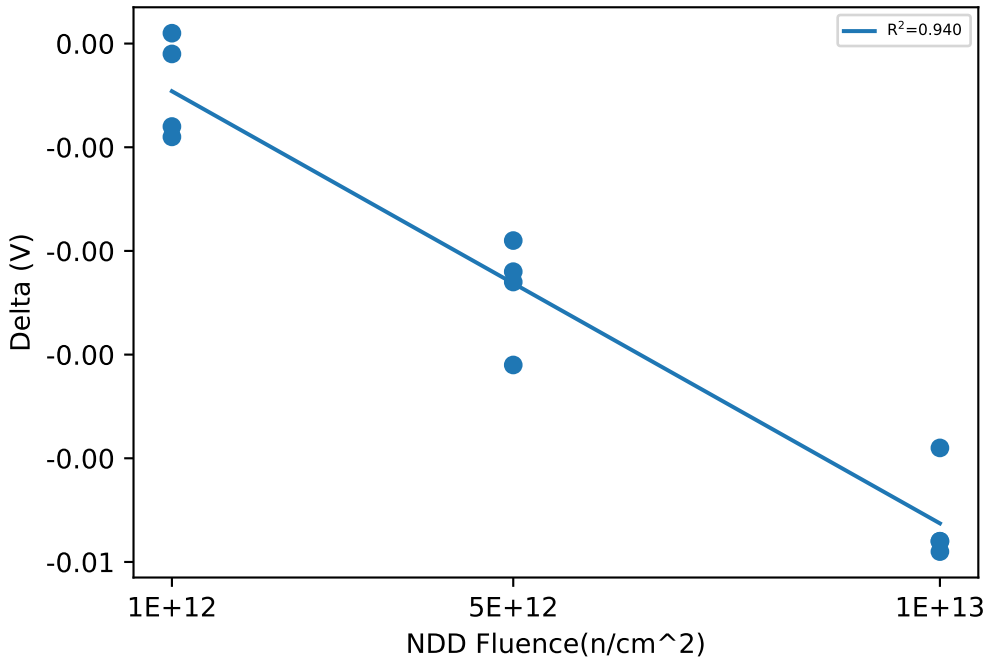
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6058	
55	0	CORRELATION		0.6028	
56	0	CORRELATION		0.6016	
64	1e+12	NDD	0.6017	0.6008	-0.0009
65	1e+12	NDD	0.6049	0.6048	-0.0001
66	1e+12	NDD	0.6057	0.6049	-0.0008
67	1e+12	NDD	0.6047	0.6048	0.0001
68	5e+12	NDD	0.6008	0.5989	-0.0019
69	5e+12	NDD	0.6069	0.6046	-0.0023
70	5e+12	NDD	0.6048	0.6026	-0.0022
71	5e+12	NDD	0.6037	0.6006	-0.0031
72	1e+13	NDD	0.6048	0.5999	-0.0049
73	1e+13	NDD	0.6056	0.6008	-0.0048
74	1e+13	NDD	0.6057	0.6009	-0.0048
75	1e+13	NDD	0.6067	0.6028	-0.0039

NDD vs Post - Pre Exposure Delta

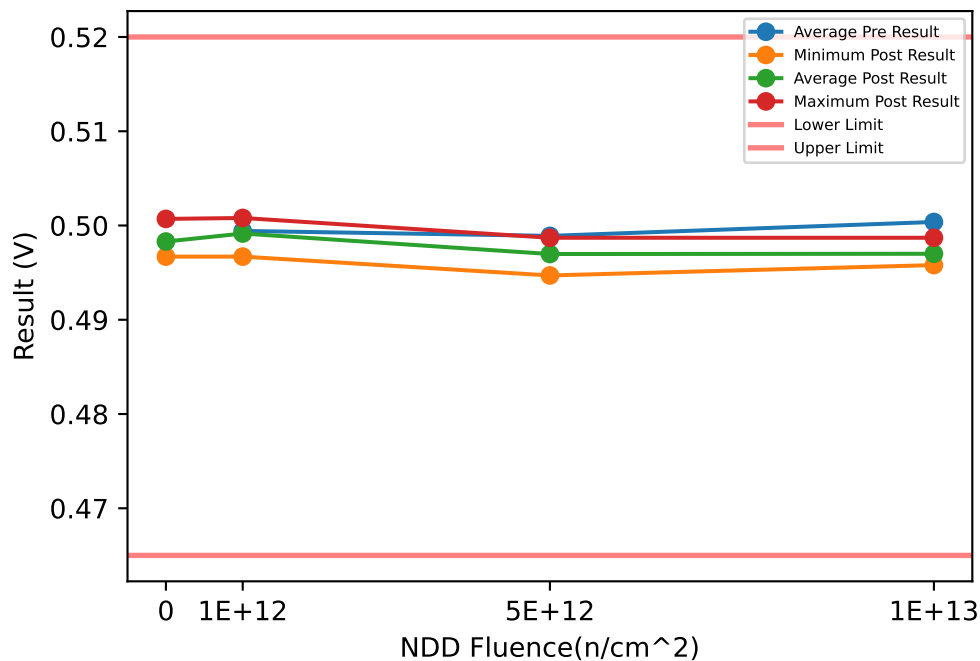


Test Statistics (V)

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					0.6016	0.6034	0.6058	0.0021633				
1e+12	0.6017	0.60425	0.6057	0.001754	0.6008	0.60383	0.6049	0.0020172	-0.0009	-0.000425	0.0001	0.00049917
5e+12	0.6008	0.60405	0.6069	0.002541	0.5989	0.60167	0.6046	0.0024676	-0.0031	-0.002375	-0.0019	0.00051235
1e+13	0.6048	0.6057	0.6067	0.00077889	0.5999	0.6011	0.6028	0.0012193	-0.0049	-0.0046	-0.0039	0.00046904

Device Test: 13.2 THRESHOLD|FALL/EN/2.25/0.6//10//@VIL_EN

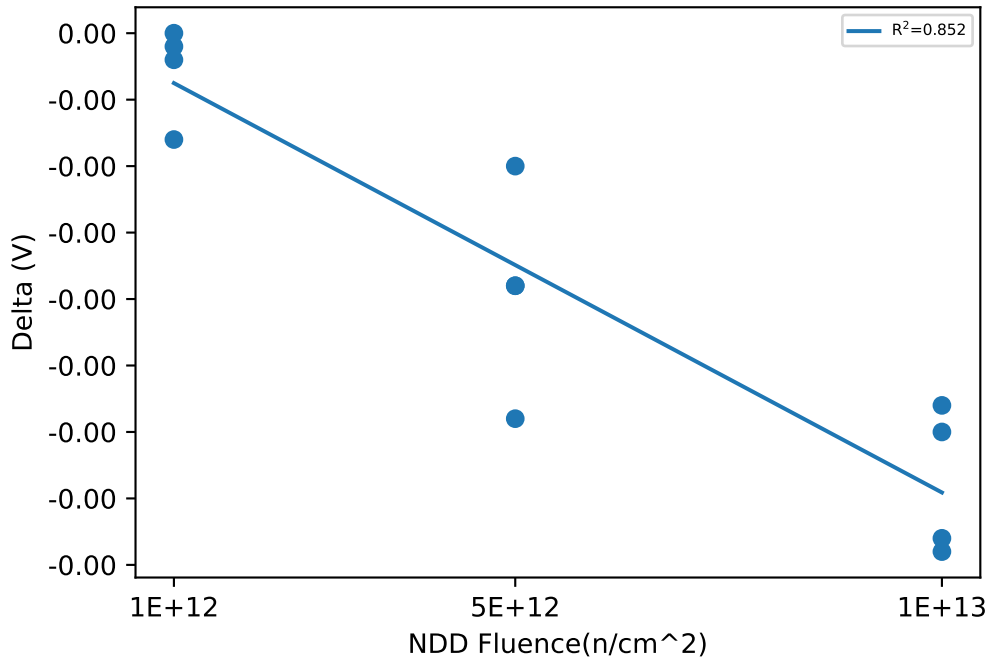
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5007	
55	0	CORRELATION		0.4975	
56	0	CORRELATION		0.4967	
64	1e+12	NDD	0.4968	0.4967	-0.0001
65	1e+12	NDD	0.4997	0.4997	0
66	1e+12	NDD	0.5016	0.5008	-0.0008
67	1e+12	NDD	0.4996	0.4994	-0.0002
68	5e+12	NDD	0.4957	0.4947	-0.001
69	5e+12	NDD	0.5016	0.4987	-0.0029
70	5e+12	NDD	0.4996	0.4977	-0.0019
71	5e+12	NDD	0.4987	0.4968	-0.0019
72	1e+13	NDD	0.4996	0.4958	-0.0038
73	1e+13	NDD	0.5006	0.4967	-0.0039
74	1e+13	NDD	0.4996	0.4968	-0.0028
75	1e+13	NDD	0.5017	0.4987	-0.003

NDD vs Post - Pre Exposure Delta

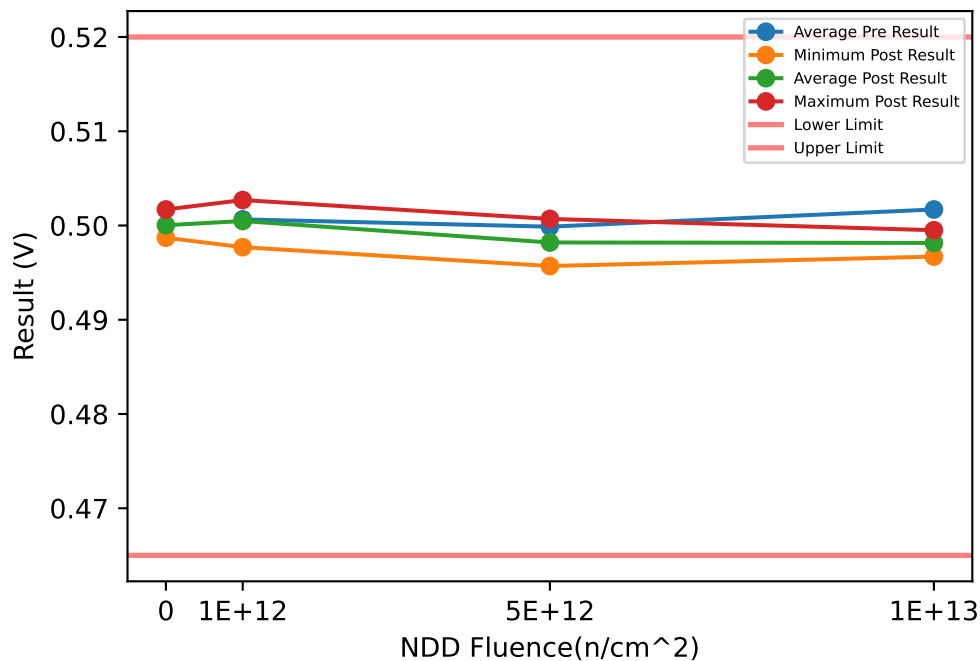


Test Statistics (V)

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	0.4983	0.5007	0.0021166				
1e+12	0.4968	0.49943	0.5016	0.0019772	0.4967	0.49915	0.5008	0.0017407	-0.0008	-0.000275	0	0.0003594
5e+12	0.4957	0.4989	0.5016	0.0024536	0.4947	0.49698	0.4987	0.0017037	-0.0029	-0.001925	-0.001	0.00077621
1e+13	0.4996	0.50038	0.5017	0.0010012	0.4958	0.497	0.4987	0.0012193	-0.0039	-0.003375	-0.0028	0.00055603

Device Test: 13.20 THRESHOLD|FALL/EN/14/13.9//10//@VIL_EN

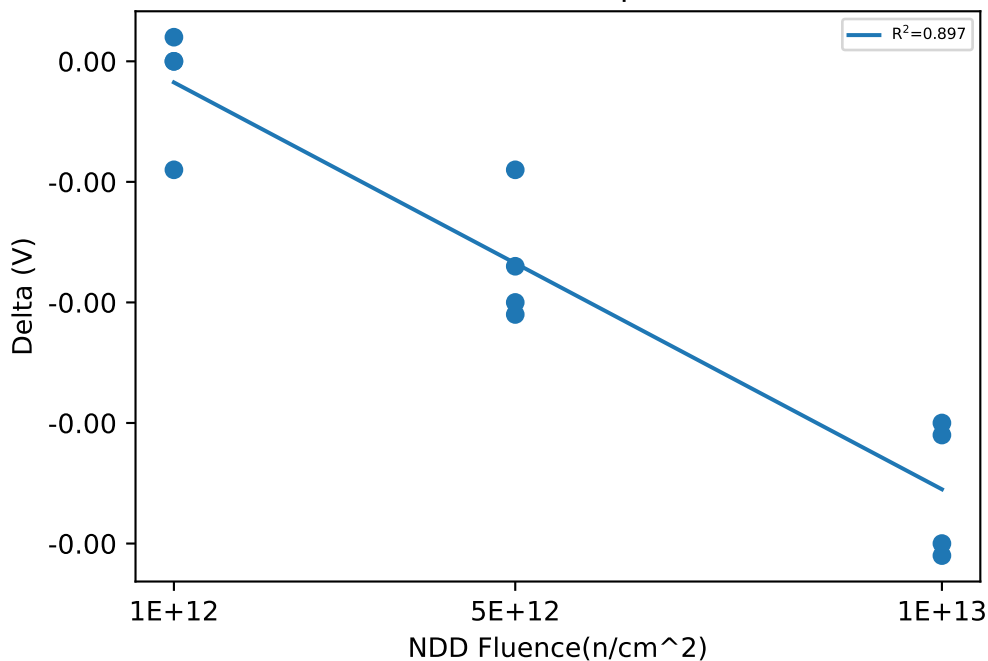
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5017	
55	0	CORRELATION		0.4997	
56	0	CORRELATION		0.4987	
64	1e+12	NDD	0.4977	0.4977	0
65	1e+12	NDD	0.5017	0.5008	-0.0009
66	1e+12	NDD	0.5027	0.5027	0
67	1e+12	NDD	0.5005	0.5007	0.0002
68	5e+12	NDD	0.4966	0.4957	-0.0009
69	5e+12	NDD	0.5028	0.5007	-0.0021
70	5e+12	NDD	0.5004	0.4987	-0.0017
71	5e+12	NDD	0.4997	0.4977	-0.002
72	1e+13	NDD	0.5007	0.4967	-0.004
73	1e+13	NDD	0.5017	0.4987	-0.003
74	1e+13	NDD	0.5018	0.4977	-0.0041
75	1e+13	NDD	0.5026	0.4995	-0.0031

NDD vs Post - Pre Exposure Delta

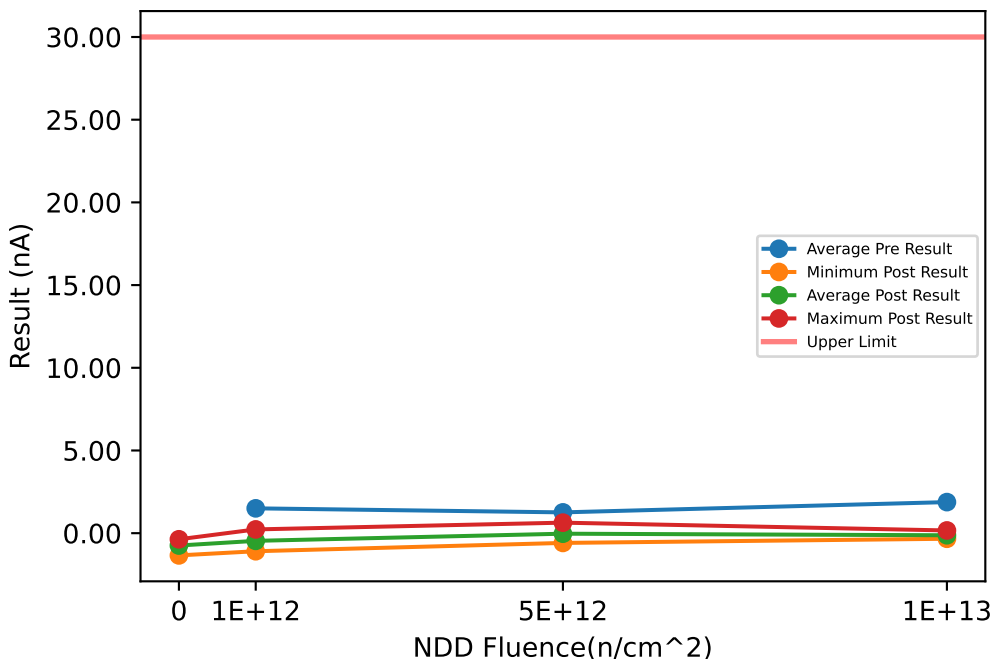


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					0.4987	0.50003	0.5017	0.0015275				
1e+12	0.4977	0.50065	0.5027	0.0021626	0.4977	0.50048	0.5027	0.0020662	-0.0009	-0.000175	0.0002	0.00049244
5e+12	0.4966	0.49987	0.5028	0.0025552	0.4957	0.4982	0.5007	0.0020817	-0.0021	-0.001675	-0.0009	0.00054391
1e+13	0.5007	0.5017	0.5026	0.00077889	0.4967	0.49815	0.4995	0.0012152	-0.0041	-0.00355	-0.003	0.00058023

Device Test: 13.22 THRESHOLD|LEAK/EN/2.25/0.6/7/10//@I_EN

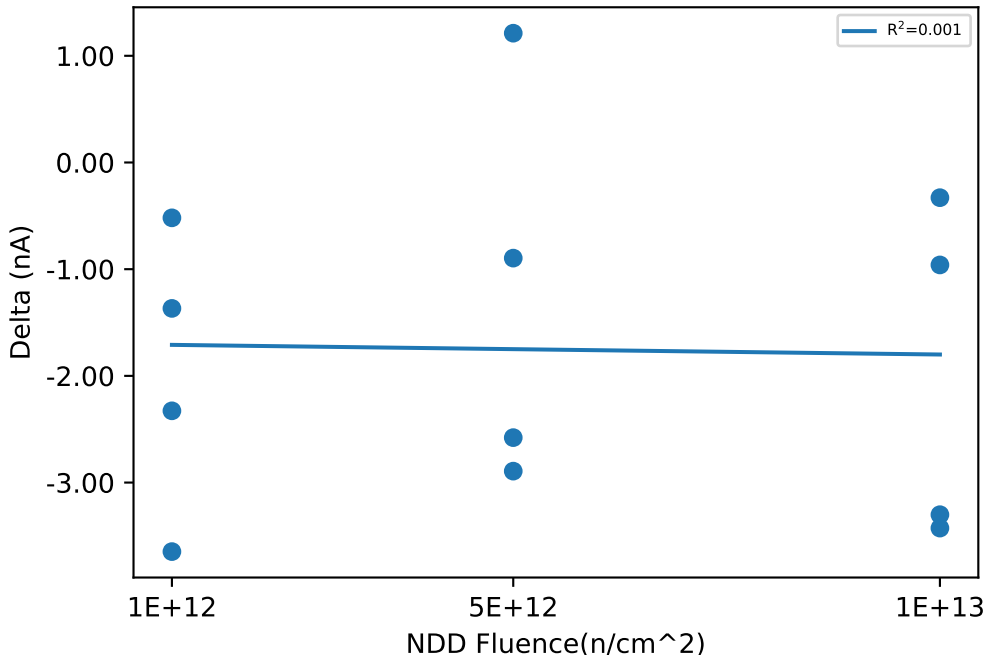
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-1.3434	
55	0	CORRELATION		-0.5264	
56	0	CORRELATION		-0.3693	
64	1e+12	NDD	2.5552	0.2277	-2.3275
65	1e+12	NDD	0.1495	-0.3693	-0.5188
66	1e+12	NDD	3.0263	-0.6207	-3.647
67	1e+12	NDD	0.2756	-1.092	-1.3676
68	5e+12	NDD	2.5866	0.0078	-2.5788
69	5e+12	NDD	-0.5756	0.6362	1.2118
70	5e+12	NDD	2.7122	-0.1807	-2.8929
71	5e+12	NDD	0.3071	-0.5892	-0.8963
72	1e+13	NDD	3.4031	-0.0236	-3.4267
73	1e+13	NDD	0.0234	-0.3064	-0.3298
74	1e+13	NDD	3.466	0.1649	-3.3011
75	1e+13	NDD	0.6223	-0.3379	-0.9602

NDD vs Post - Pre Exposure Delta

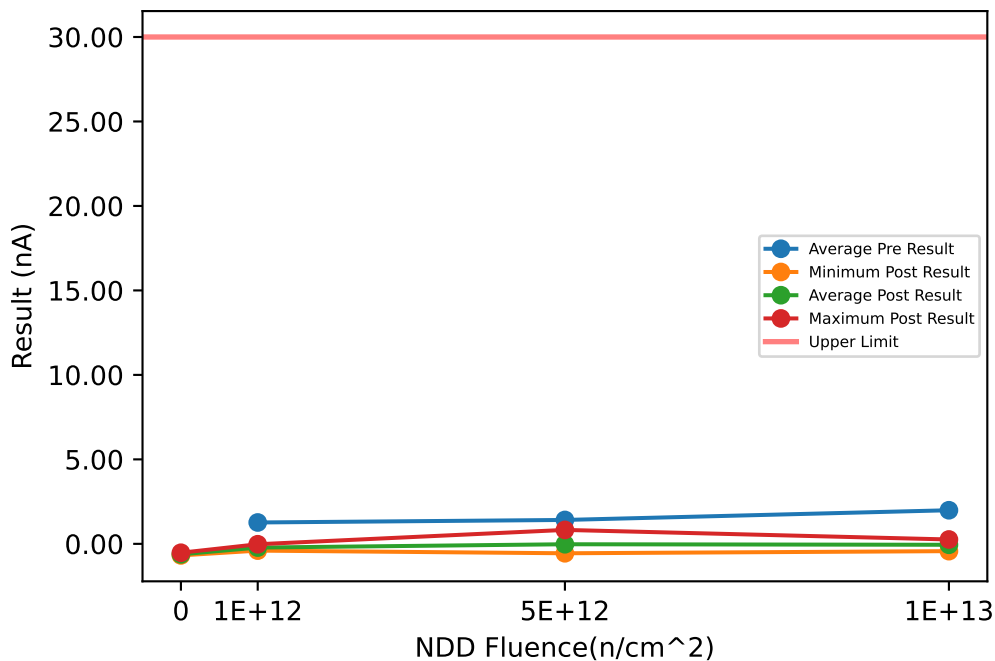


Test Statistics (nA)

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					-1.3434	-0.74637	-0.3693	0.52298				
1e+12	0.1495	1.5017	3.0263	1.5018	-1.092	-0.46358	0.2277	0.54965	-3.647	-1.9652	-0.5188	1.3427
5e+12	-0.5756	1.2576	2.7122	1.6478	-0.5892	-0.031475	0.6362	0.51012	-2.8929	-1.2891	1.2118	1.8836
1e+13	0.0234	1.8787	3.466	1.8133	-0.3379	-0.12575	0.1649	0.23983	-3.4267	-2.0045	-0.3298	1.5915

Device Test: 13.23 THRESHOLD|LEAK/EN/14/0.6/7/10//@I_EN

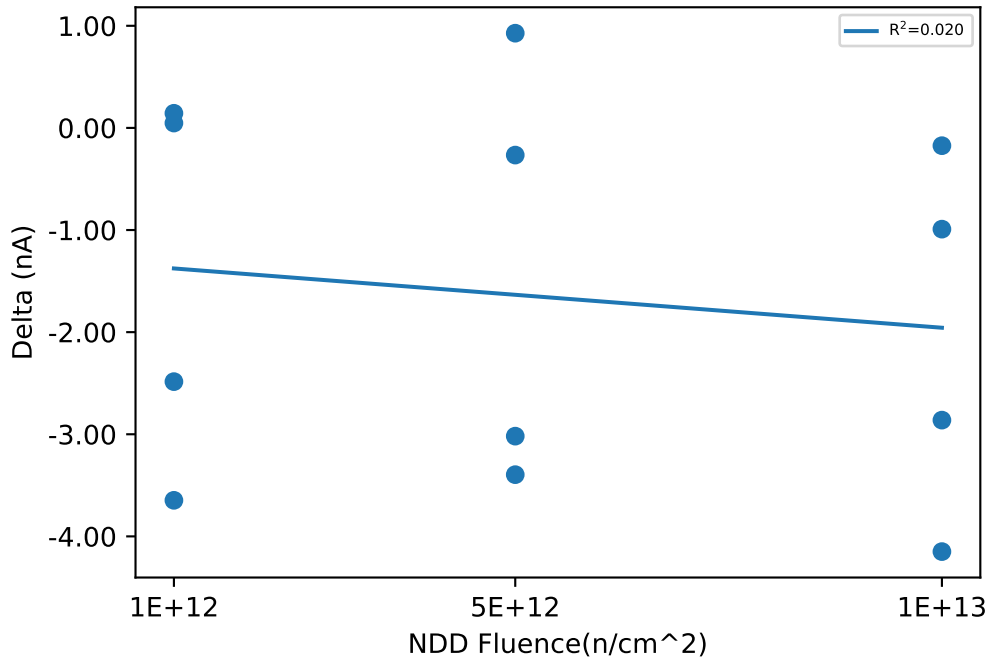
NDD vs Result Stats



Test Results (Upper Limit = 30.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.6521	
55	0	CORRELATION		-0.5264	
56	0	CORRELATION		-0.6835	
64	1e+12	NDD	3.2461	-0.4007	-3.6468
65	1e+12	NDD	-0.1027	-0.0551	0.0476
66	1e+12	NDD	2.461	-0.0236	-2.4846
67	1e+12	NDD	-0.544	-0.4007	0.1433
68	5e+12	NDD	2.9949	-0.0236	-3.0185
69	5e+12	NDD	-0.1027	0.8248	0.9275
70	5e+12	NDD	3.0577	-0.3379	-3.3956
71	5e+12	NDD	-0.2918	-0.5578	-0.266
72	1e+13	NDD	2.7122	-0.1493	-2.8615
73	1e+13	NDD	0.5593	-0.4321	-0.9914
74	1e+13	NDD	4.2511	0.1021	-4.149
75	1e+13	NDD	0.4332	0.2592	-0.174

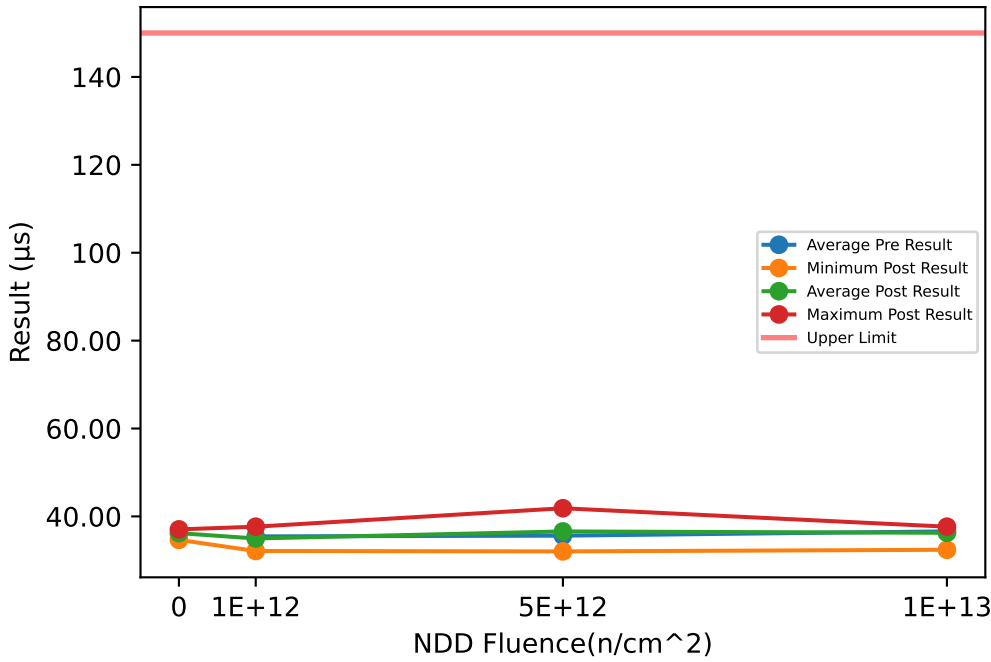
NDD vs Post - Pre Exposure Delta



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					-0.6835	-0.62067	-0.5264	0.083133				
1e+12	-0.544	1.2651	3.2461	1.8707	-0.4007	-0.22002	-0.0236	0.20902	-3.6468	-1.4851	0.1433	1.8862
5e+12	-0.2918	1.4145	3.0577	1.8629	-0.5578	-0.023625	0.8248	0.60661	-3.3956	-1.4382	0.9275	2.1055
1e+13	0.4332	1.9889	4.2511	1.8353	-0.4321	-0.055025	0.2592	0.30249	-4.149	-2.044	-0.174	1.7985

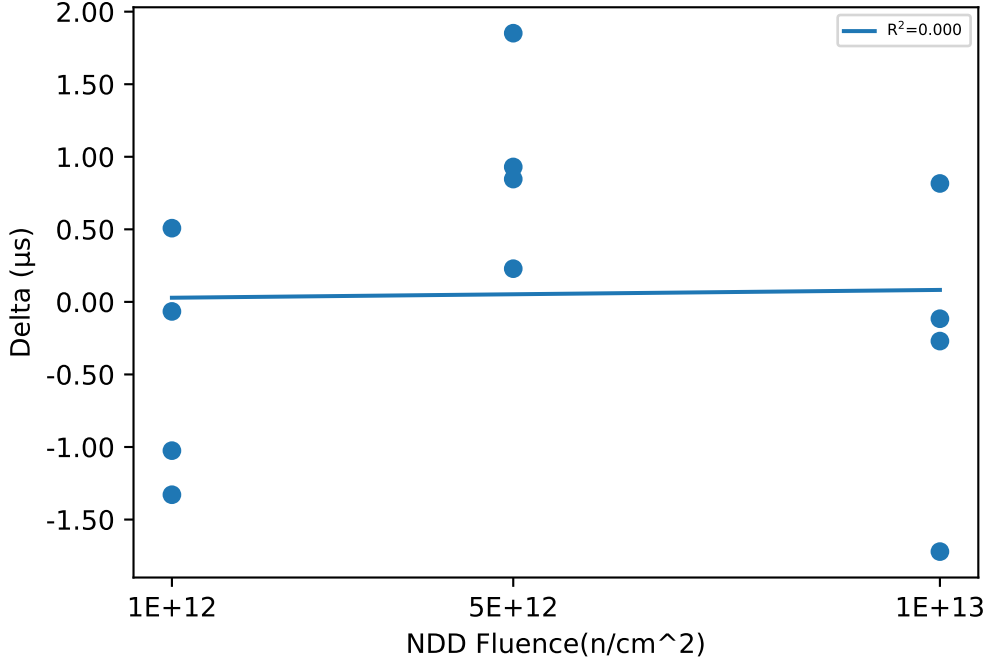
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		34.663	
55	0	CORRELATION		36.885	
56	0	CORRELATION		37.046	
64	1e+12	NDD	37.15	37.658	0.508
65	1e+12	NDD	33.152	32.127	-1.0251
66	1e+12	NDD	36.937	35.608	-1.3289
67	1e+12	NDD	34.585	34.519	-0.0657
68	5e+12	NDD	40.007	41.859	1.8516
69	5e+12	NDD	32.905	33.835	0.9299
70	5e+12	NDD	37.744	38.59	0.8463
71	5e+12	NDD	31.809	32.038	0.2288
72	1e+13	NDD	37.76	37.644	-0.116
73	1e+13	NDD	39.092	37.371	-1.7208
74	1e+13	NDD	36.845	37.661	0.8161
75	1e+13	NDD	32.673	32.403	-0.2701

NDD vs Post - Pre Exposure Delta

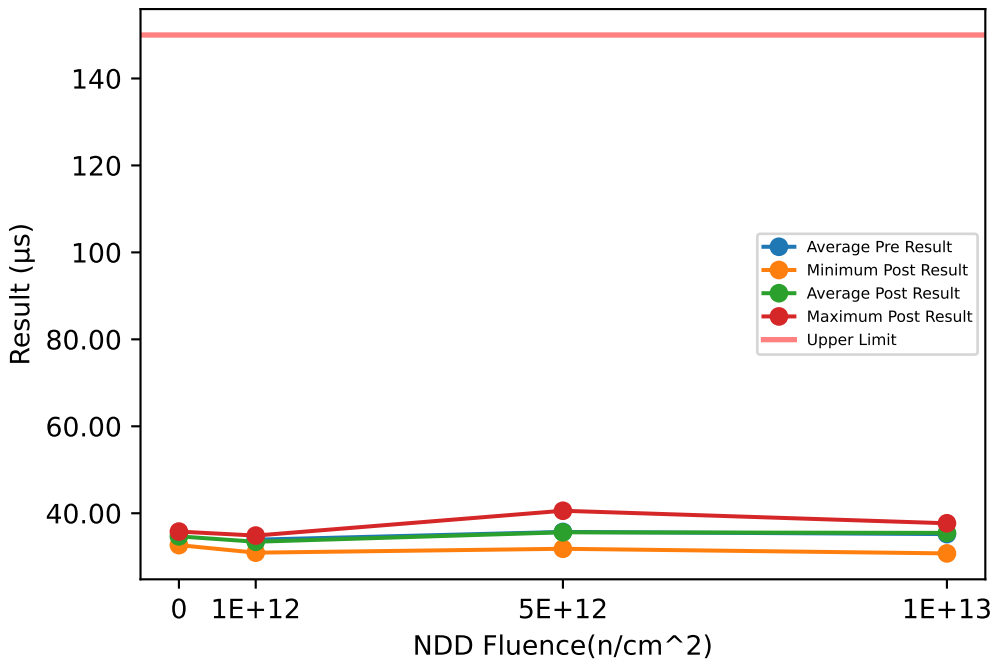


Test Statistics (µs)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					34.663	36.198	37.046	1.3315				
1e+12	33.152	35.456	37.15	1.926	32.127	34.978	37.658	2.3033	-1.3289	-0.47793	0.508	0.84961
5e+12	31.809	35.616	40.007	3.901	32.038	36.581	41.859	4.4749	0.2288	0.96415	1.8516	0.66917
1e+13	32.673	36.593	39.092	2.7708	32.403	36.27	37.661	2.5811	-1.7208	-0.3227	0.8161	1.0483

Device Test: 13.25 THRESHOLD|DELAY/EN/3.3/0.6//10//@T_EN_DELAY

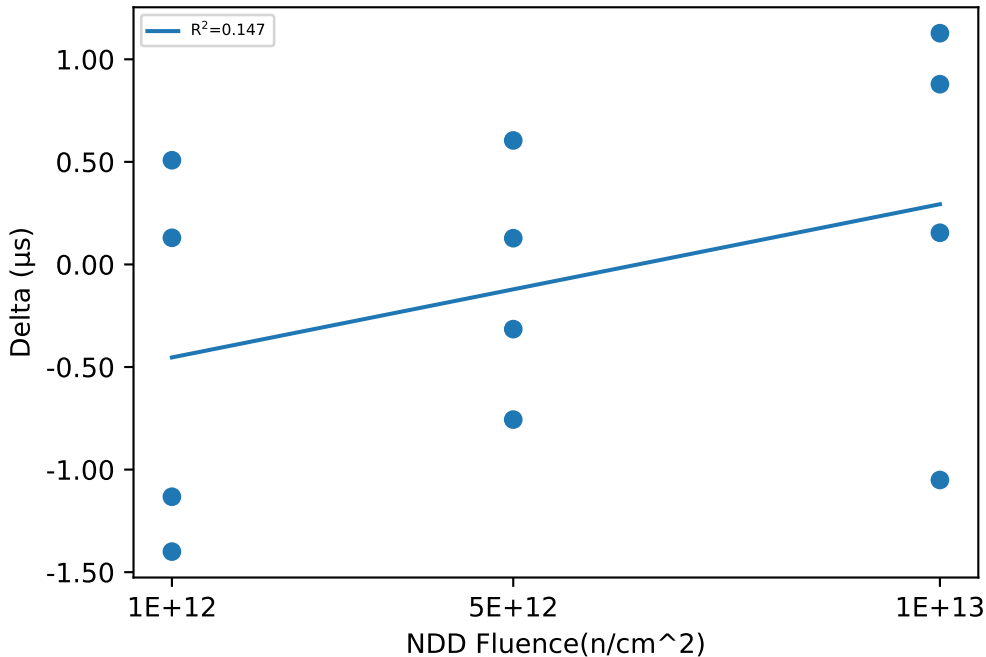
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		32.672	
55	0	CORRELATION		35.783	
56	0	CORRELATION		35.599	
64	1e+12	NDD	35.998	34.866	-1.1323
65	1e+12	NDD	30.426	30.934	0.5079
66	1e+12	NDD	34.291	34.42	0.1298
67	1e+12	NDD	34.963	33.563	-1.3997
68	5e+12	NDD	39.969	40.573	0.6044
69	5e+12	NDD	32.592	32.719	0.128
70	5e+12	NDD	37.671	37.355	-0.3153
71	5e+12	NDD	32.585	31.828	-0.7562
72	1e+13	NDD	35.949	37.076	1.1272
73	1e+13	NDD	36.239	36.394	0.1544
74	1e+13	NDD	36.816	37.695	0.8786
75	1e+13	NDD	31.817	30.766	-1.0507

NDD vs Post - Pre Exposure Delta

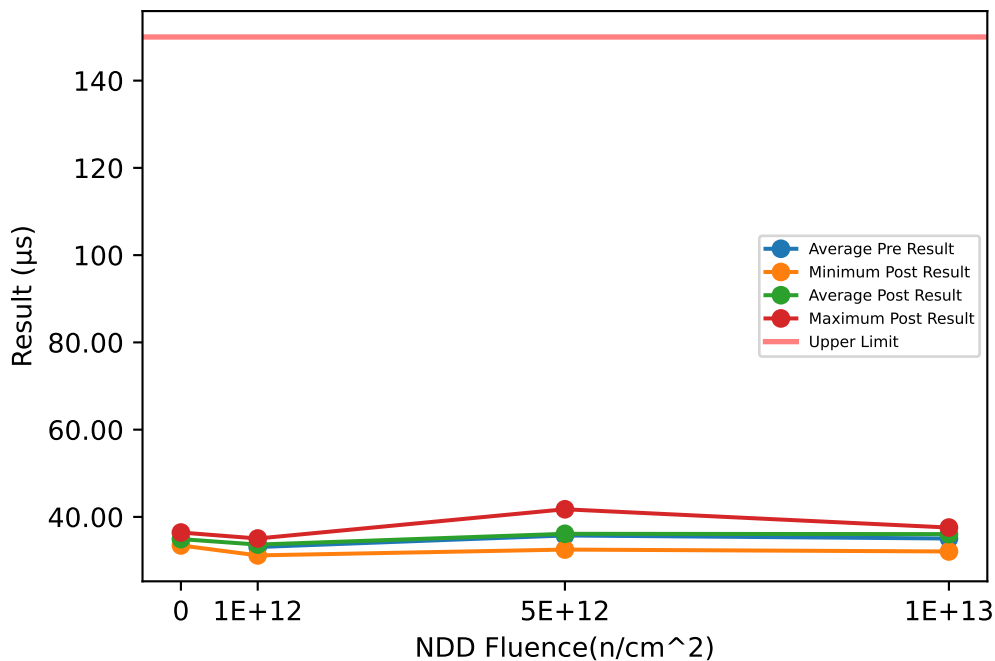


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					32.672	34.685	35.783	1.7457				
1e+12	30.426	33.919	35.998	2.4326	30.934	33.446	34.866	1.7598	-1.3997	-0.47358	0.5079	0.93434
5e+12	32.585	35.704	39.969	3.7181	31.828	35.619	40.573	4.0961	-0.7562	-0.084775	0.6044	0.58429
1e+13	31.817	35.205	36.816	2.2874	30.766	35.483	37.695	3.1888	-1.0507	0.27737	1.1272	0.97683

Device Test: 13.26 THRESHOLD|DELAY/EN/5/0.6//10//@T_EN_DELAY

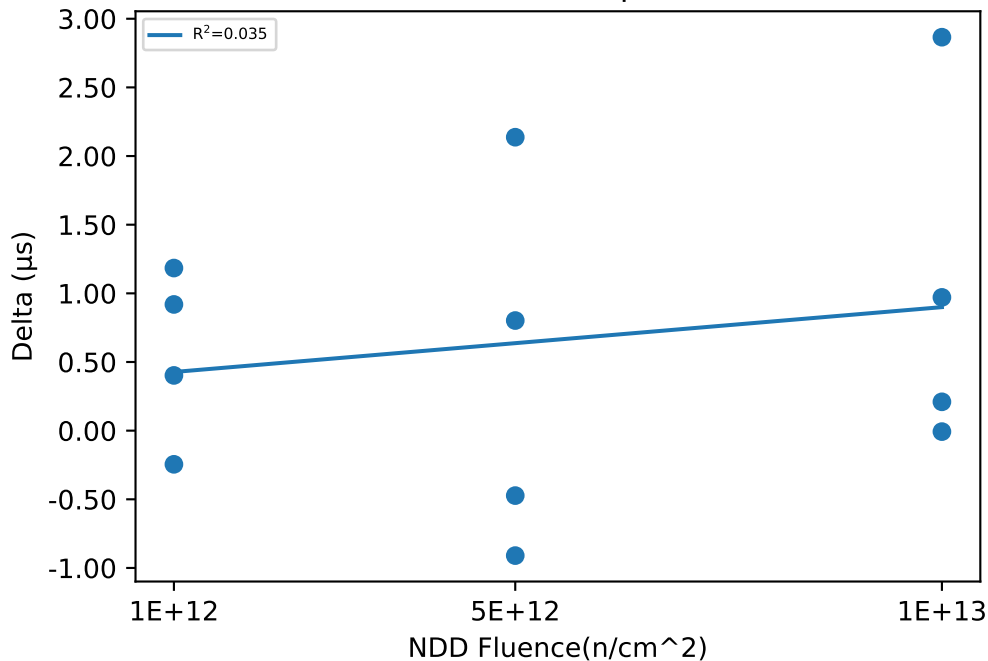
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		33.462	
55	0	CORRELATION		36.423	
56	0	CORRELATION		34.859	
64	1e+12	NDD	34.65	35.052	0.4023
65	1e+12	NDD	30.259	31.179	0.9192
66	1e+12	NDD	33.763	34.948	1.1843
67	1e+12	NDD	33.701	33.455	-0.2452
68	5e+12	NDD	39.614	41.751	2.1372
69	5e+12	NDD	34.764	33.853	-0.91
70	5e+12	NDD	35.602	36.404	0.802
71	5e+12	NDD	32.985	32.512	-0.473
72	1e+13	NDD	34.696	37.562	2.8656
73	1e+13	NDD	36.061	37.032	0.9706
74	1e+13	NDD	37.558	37.551	-0.007
75	1e+13	NDD	31.87	32.08	0.21

NDD vs Post - Pre Exposure Delta

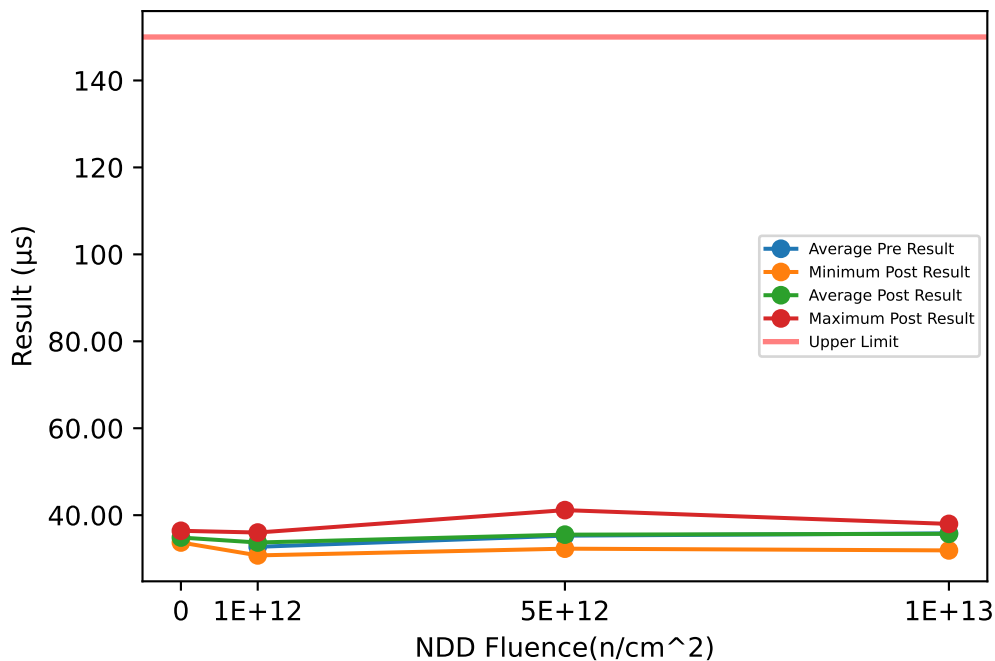


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					33.462	34.915	36.423	1.4813				
1e+12	30.259	33.093	34.65	1.9384	31.179	33.658	35.052	1.807	-0.2452	0.56515	1.1843	0.63031
5e+12	32.985	35.741	39.614	2.8028	32.512	36.13	41.751	4.0801	-0.91	0.38905	2.1372	1.3732
1e+13	31.87	35.046	37.558	2.4189	32.08	36.056	37.562	2.6625	-0.007	1.0098	2.8656	1.3063

Device Test: 13.27 THRESHOLD|DELAY/EN/7/0.6//10//@T_EN_DELAY

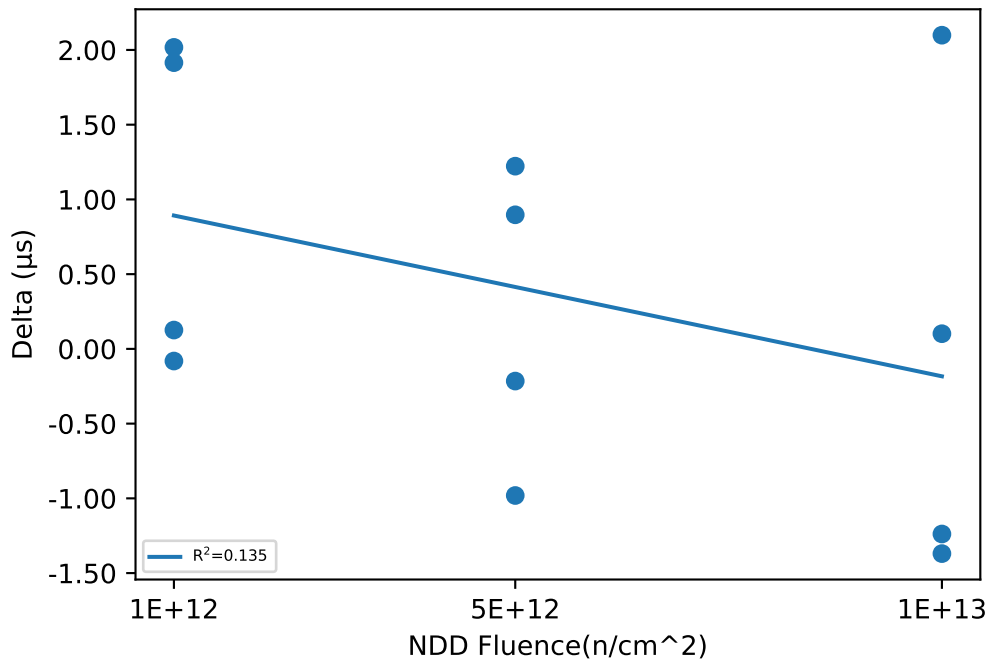
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		33.717	
55	0	CORRELATION		36.405	
56	0	CORRELATION		34.448	
64	1e+12	NDD	34.093	36.008	1.915
65	1e+12	NDD	30.622	30.748	0.126
66	1e+12	NDD	34.313	34.232	-0.0813
67	1e+12	NDD	31.855	33.872	2.0172
68	5e+12	NDD	40.264	41.162	0.8971
69	5e+12	NDD	33.277	32.296	-0.9809
70	5e+12	NDD	35.106	36.328	1.2224
71	5e+12	NDD	32.512	32.297	-0.2153
72	1e+13	NDD	35.893	37.991	2.0987
73	1e+13	NDD	37.405	36.035	-1.3696
74	1e+13	NDD	36.822	36.924	0.1016
75	1e+13	NDD	33.136	31.897	-1.2385

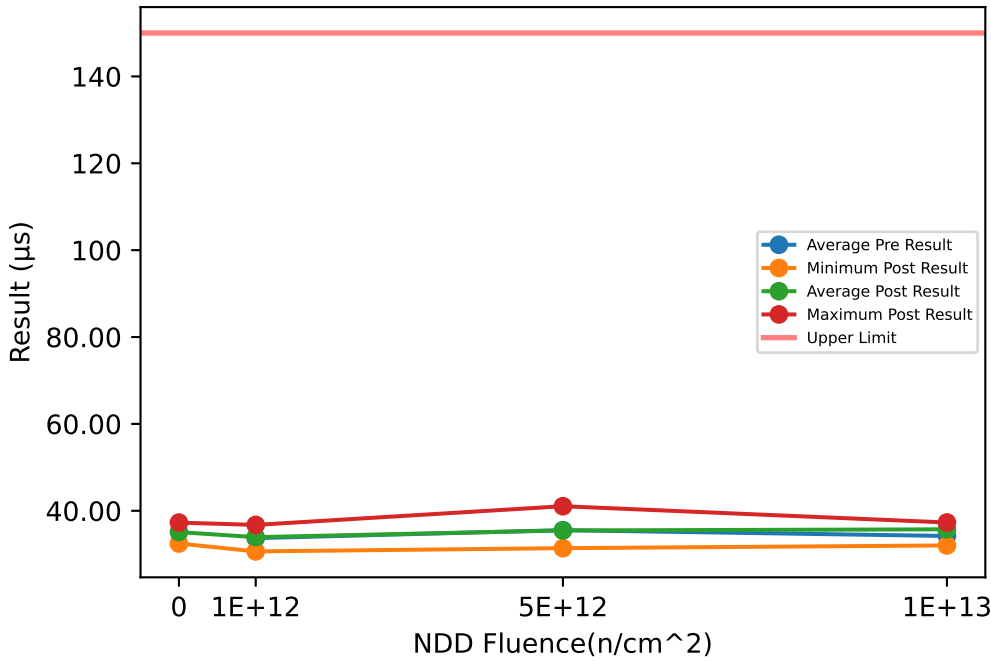
NDD vs Post - Pre Exposure Delta



Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					33.717	34.856	36.405	1.3898				
1e+12	30.622	32.721	34.313	1.7864	30.748	33.715	36.008	2.1874	-0.0813	0.99423	2.0172	1.1262
5e+12	32.512	35.29	40.264	3.4905	32.296	35.521	41.162	4.2138	-0.9809	0.23082	1.2224	1.0156
1e+13	33.136	35.814	37.405	1.8909	31.897	35.712	37.991	2.6659	-1.3696	-0.10195	2.0987	1.6107

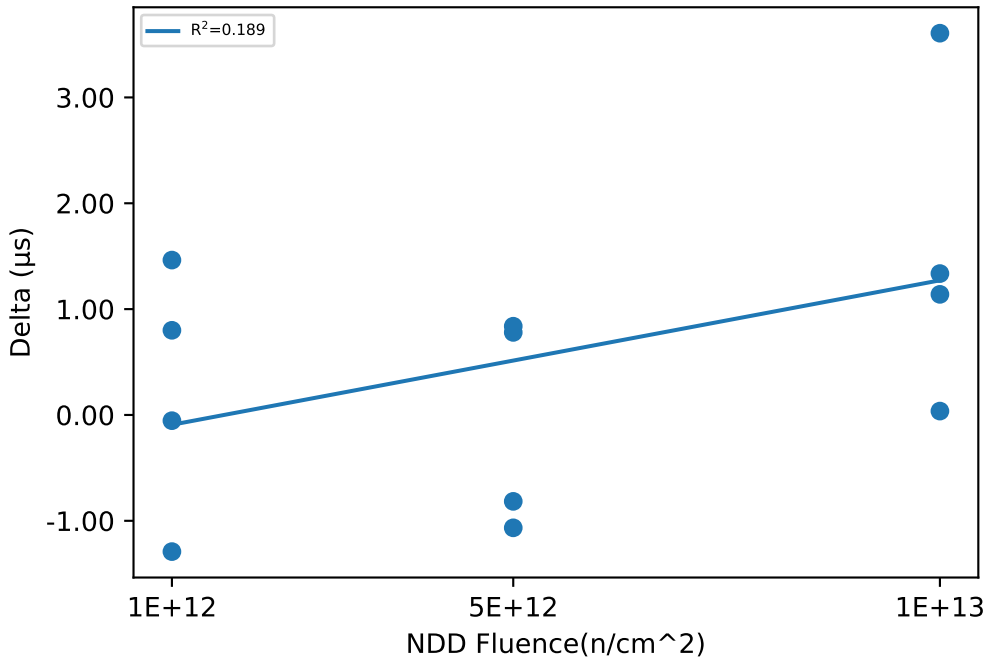
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		32.461	
55	0	CORRELATION		37.279	
56	0	CORRELATION		35.543	
64	1e+12	NDD	35.285	36.749	1.4633
65	1e+12	NDD	31.94	30.649	-1.2909
66	1e+12	NDD	33.908	34.708	0.7999
67	1e+12	NDD	33.661	33.607	-0.054
68	5e+12	NDD	40.271	41.051	0.78
69	5e+12	NDD	31.611	32.449	0.8384
70	5e+12	NDD	37.806	36.99	-0.8163
71	5e+12	NDD	32.459	31.393	-1.0663
72	1e+13	NDD	33.697	37.303	3.6068
73	1e+13	NDD	35.166	36.502	1.3359
74	1e+13	NDD	35.959	37.098	1.1394
75	1e+13	NDD	31.982	32.019	0.0366

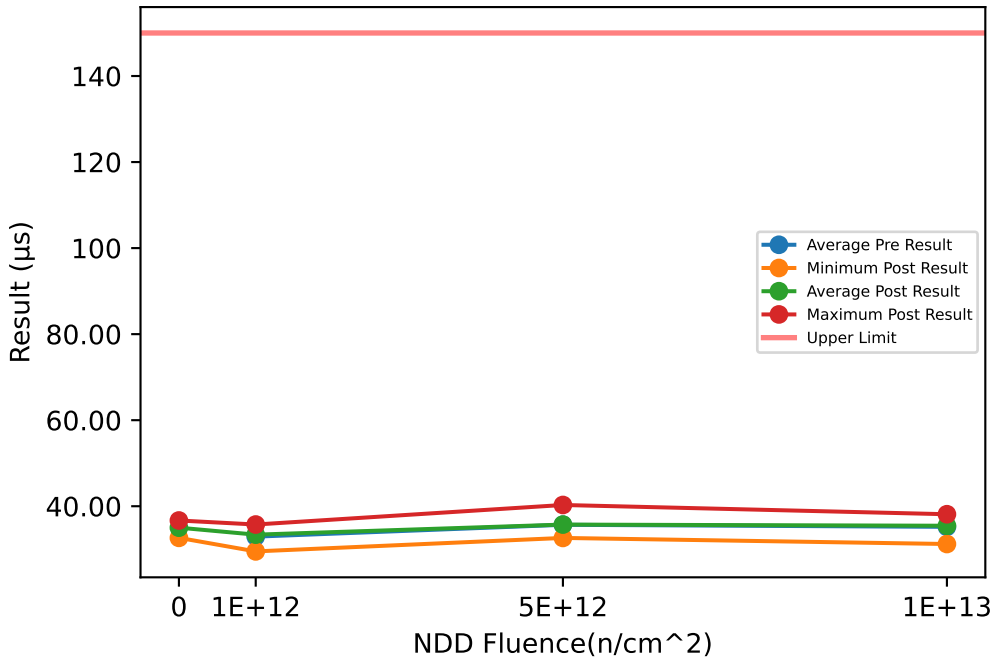
NDD vs Post - Pre Exposure Delta



Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					32.461	35.094	37.279	2.4398				
1e+12	31.94	33.698	35.285	1.3731	30.649	33.928	36.749	2.5443	-1.2909	0.22958	1.4633	1.1888
5e+12	31.611	35.537	40.271	4.1812	31.393	35.471	41.051	4.4424	-1.0663	-0.06605	0.8384	1.0161
1e+13	31.982	34.201	35.959	1.7511	32.019	35.731	37.303	2.4977	0.0366	1.5297	3.6068	1.4982

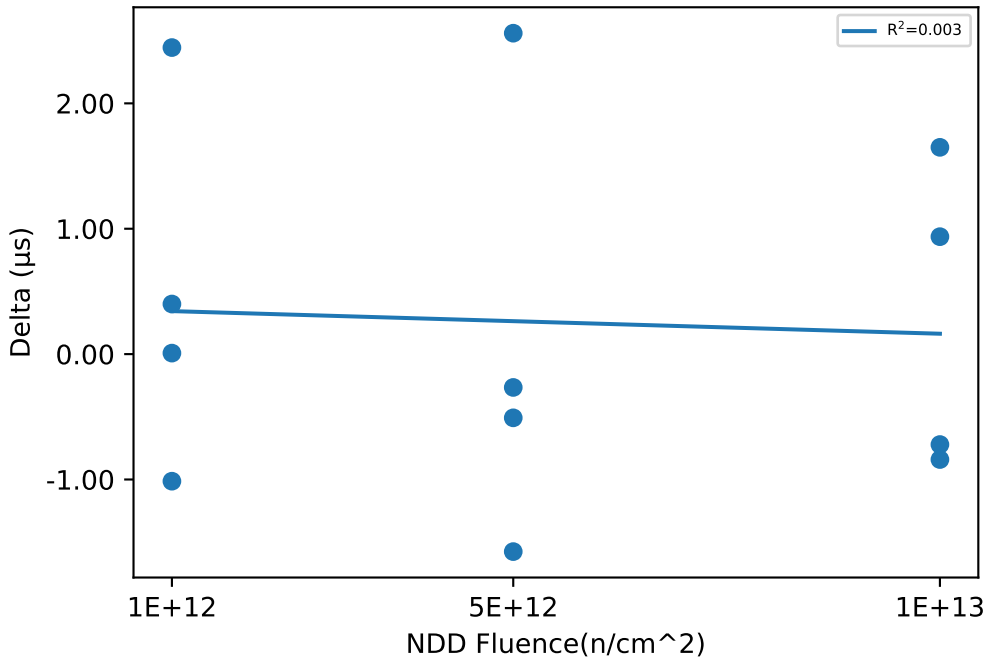
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		32.649	
55	0	CORRELATION		36.683	
56	0	CORRELATION		35.713	
64	1e+12	NDD	35.348	35.747	0.3996
65	1e+12	NDD	30.513	29.5	-1.0136
66	1e+12	NDD	34.42	34.428	0.008
67	1e+12	NDD	31.44	33.885	2.445
68	5e+12	NDD	40.796	40.288	-0.5082
69	5e+12	NDD	34.218	32.643	-1.5751
70	5e+12	NDD	34.819	37.378	2.5596
71	5e+12	NDD	32.896	32.63	-0.2658
72	1e+13	NDD	36.489	38.138	1.6493
73	1e+13	NDD	36.141	35.42	-0.7212
74	1e+13	NDD	36.147	37.084	0.9367
75	1e+13	NDD	32.058	31.217	-0.8407

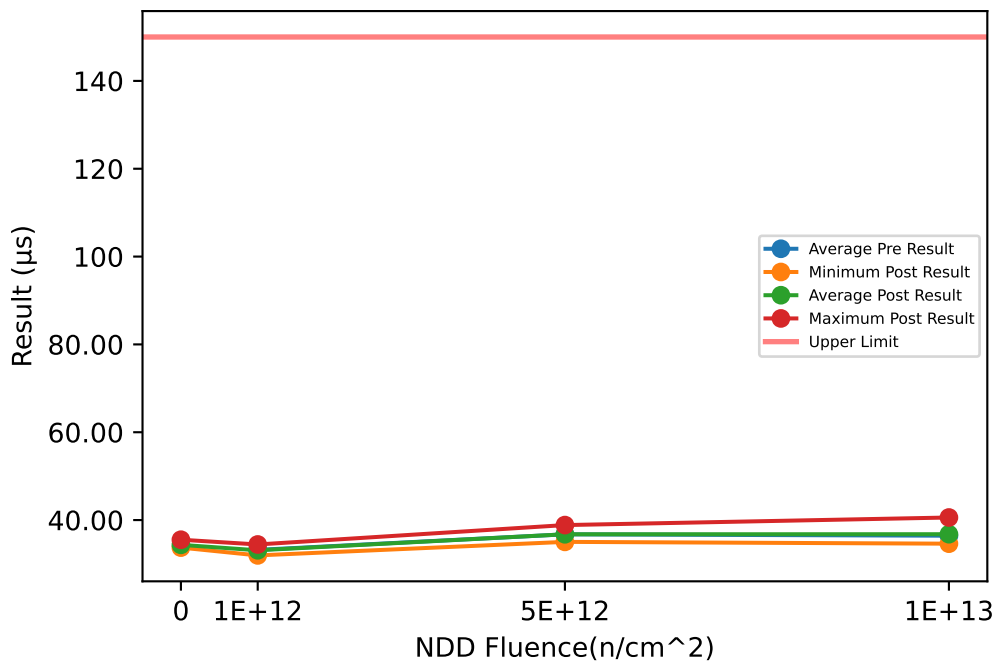
NDD vs Post - Pre Exposure Delta



Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					32.649	35.015	36.683	2.1057				
1e+12	30.513	32.93	35.348	2.3184	29.5	33.39	35.747	2.7089	-1.0136	0.45975	2.445	1.4514
5e+12	32.896	35.682	40.796	3.5026	32.63	35.735	40.288	3.7696	-1.5751	0.052625	2.5596	1.7654
1e+13	32.058	35.209	36.489	2.1067	31.217	35.465	38.138	3.0448	-0.8407	0.25603	1.6493	1.2332

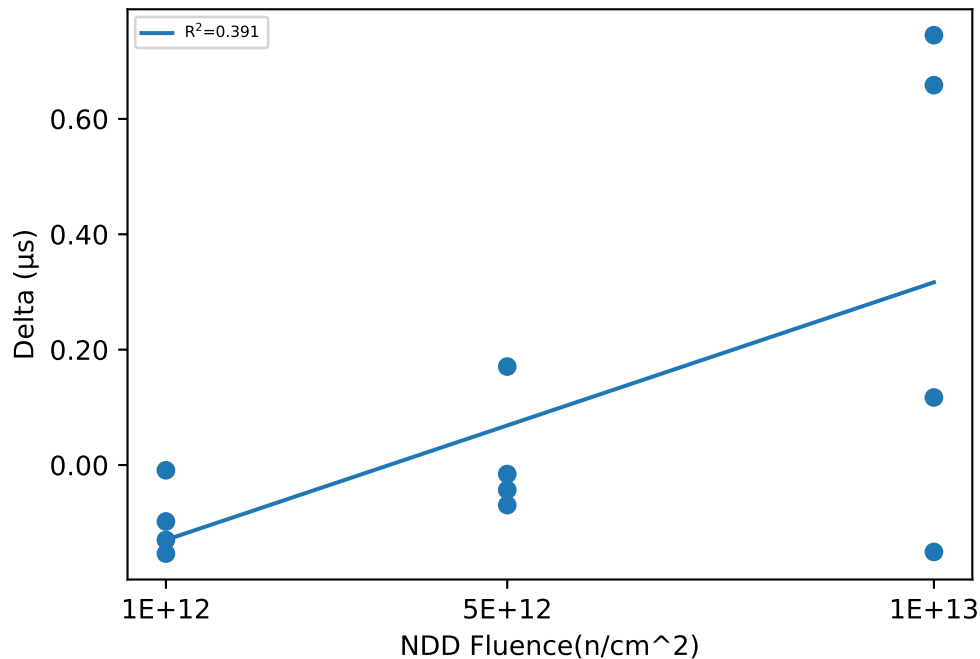
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		33.829	
55	0	CORRELATION		35.524	
56	0	CORRELATION		33.73	
64	1e+12	NDD	32.977	32.88	-0.0978
65	1e+12	NDD	33.199	33.19	-0.0091
66	1e+12	NDD	34.596	34.442	-0.1535
67	1e+12	NDD	32.085	31.955	-0.1298
68	5e+12	NDD	38.874	38.858	-0.0156
69	5e+12	NDD	35.073	35.244	0.1707
70	5e+12	NDD	35.077	35.034	-0.0431
71	5e+12	NDD	37.985	37.915	-0.0695
72	1e+13	NDD	35.455	36.114	0.6585
73	1e+13	NDD	34.774	34.624	-0.1506
74	1e+13	NDD	39.839	40.584	0.7451
75	1e+13	NDD	35.686	35.803	0.1171

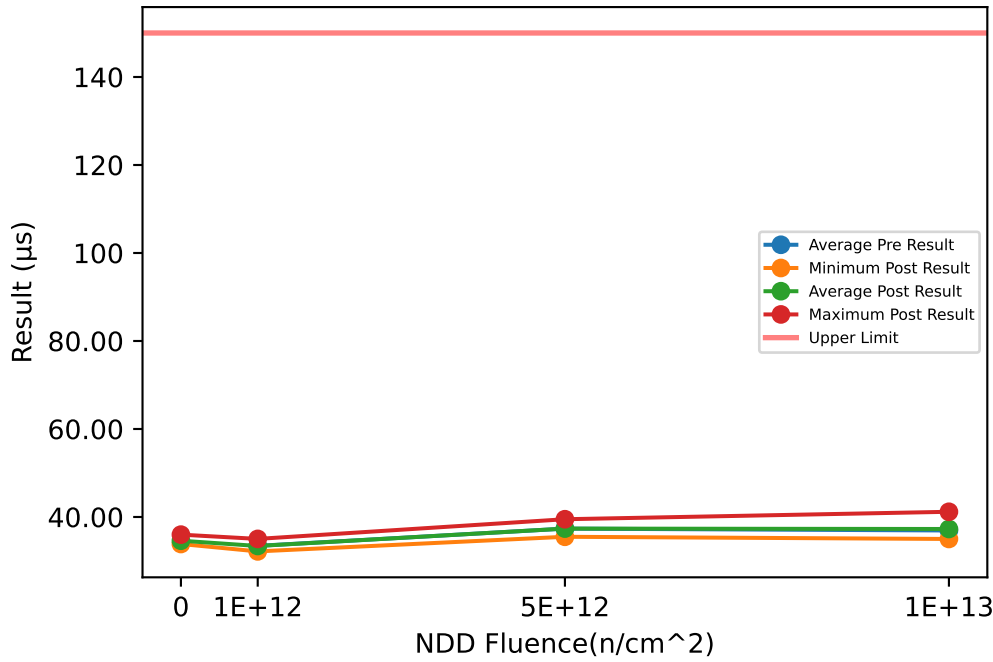
NDD vs Post - Pre Exposure Delta



Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					33.73	34.361	35.524	1.0086				
1e+12	32.085	33.214	34.596	1.0394	31.955	33.117	34.442	1.0277	-0.1535	-0.09755	-0.0091	0.06323
5e+12	35.073	36.752	38.874	1.9703	35.034	36.763	38.858	1.9162	-0.0695	0.010625	0.1707	0.10896
1e+13	34.774	36.439	39.839	2.2996	34.624	36.781	40.584	2.6152	-0.1506	0.34253	0.7451	0.43046

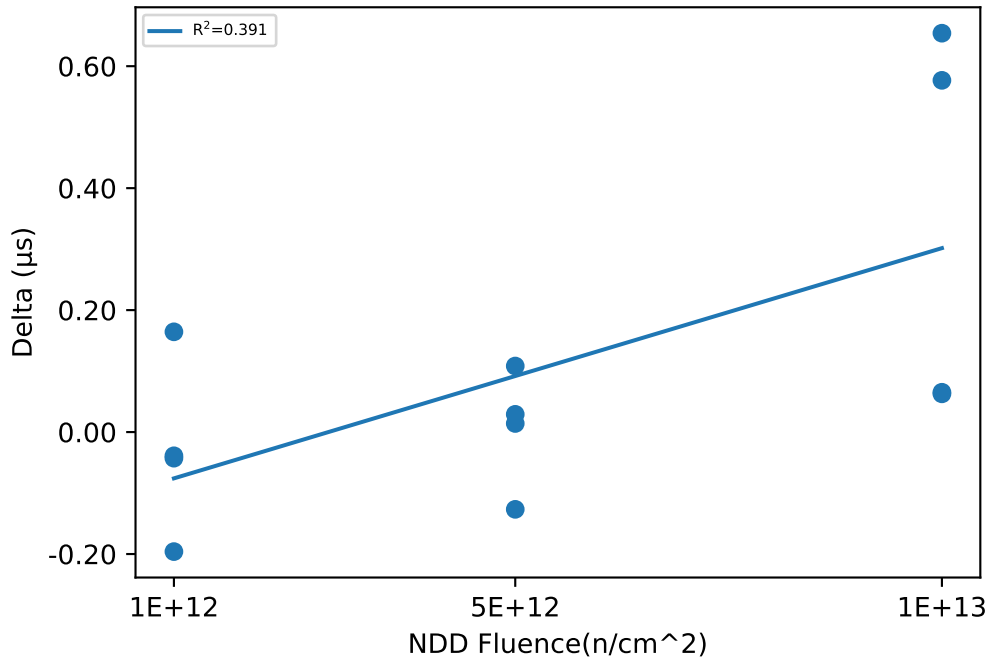
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		33.98	
55	0	CORRELATION		35.988	
56	0	CORRELATION		33.858	
64	1e+12	NDD	33.028	32.989	-0.0389
65	1e+12	NDD	33.497	33.454	-0.0428
66	1e+12	NDD	35.215	35.019	-0.196
67	1e+12	NDD	32.015	32.179	0.1644
68	5e+12	NDD	39.616	39.489	-0.1267
69	5e+12	NDD	35.564	35.673	0.1083
70	5e+12	NDD	35.471	35.5	0.0291
71	5e+12	NDD	38.773	38.787	0.0141
72	1e+13	NDD	35.939	36.593	0.6541
73	1e+13	NDD	34.94	35.005	0.0653
74	1e+13	NDD	40.605	41.182	0.5768
75	1e+13	NDD	36.248	36.31	0.0627

NDD vs Post - Pre Exposure Delta

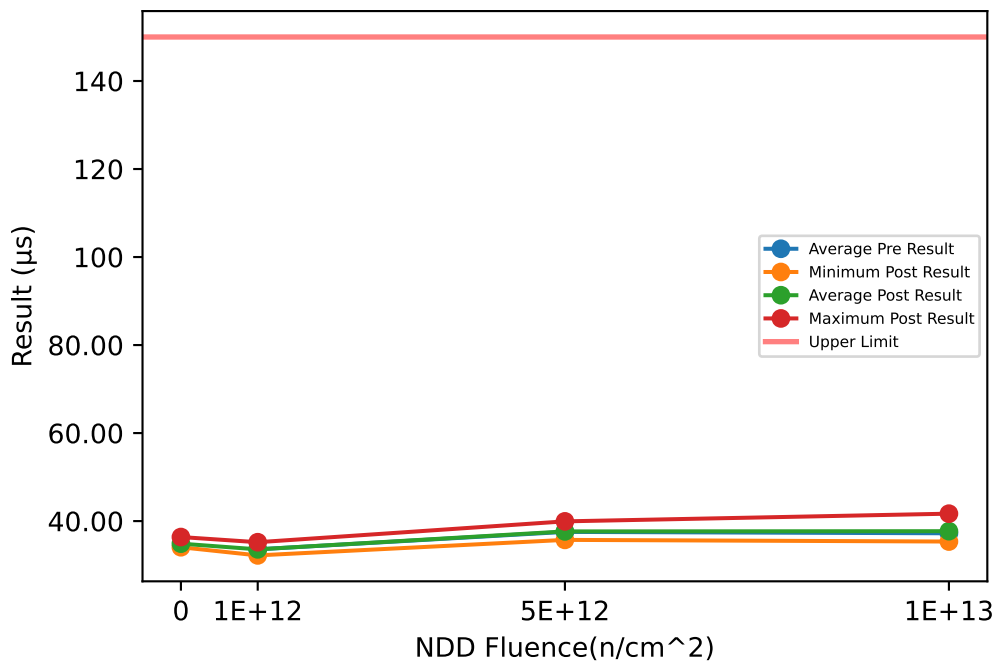


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					33.858	34.609	35.988	1.1962				
1e+12	32.015	33.439	35.215	1.3359	32.179	33.41	35.019	1.1947	-0.196	-0.028325	0.1644	0.14785
5e+12	35.471	37.356	39.616	2.1509	35.5	37.362	39.489	2.0718	-0.1267	0.0062	0.1083	0.097764
1e+13	34.94	36.933	40.605	2.5109	35.005	37.273	41.182	2.6963	0.0627	0.33973	0.6541	0.31994

Device Test: 13.32 THRESHOLD|DELAY/EN/14/5//10//@T_EN_DELAY

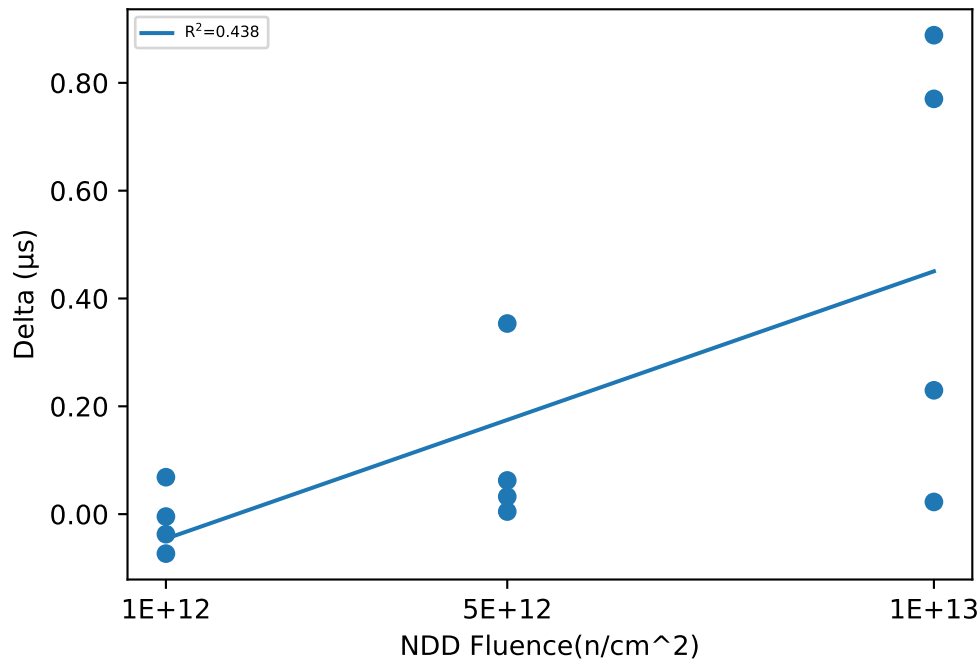
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		34.193	
55	0	CORRELATION		36.377	
56	0	CORRELATION		34.057	
64	1e+12	NDD	33.134	33.129	-0.0045
65	1e+12	NDD	33.707	33.776	0.0685
66	1e+12	NDD	35.275	35.201	-0.0732
67	1e+12	NDD	32.242	32.205	-0.0372
68	5e+12	NDD	39.876	39.939	0.0625
69	5e+12	NDD	35.648	36.002	0.3536
70	5e+12	NDD	35.726	35.731	0.0048
71	5e+12	NDD	38.92	38.953	0.0325
72	1e+13	NDD	36.206	36.976	0.7703
73	1e+13	NDD	35.331	35.354	0.0226
74	1e+13	NDD	40.798	41.686	0.8884
75	1e+13	NDD	36.575	36.805	0.2297

NDD vs Post - Pre Exposure Delta

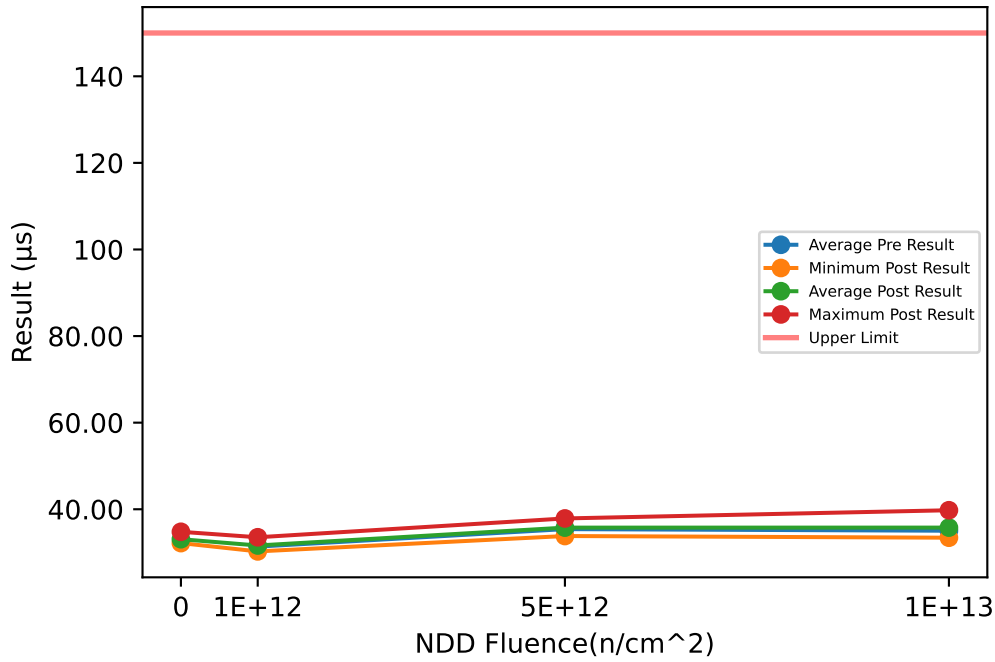


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					34.057	34.876	36.377	1.3018				
1e+12	32.242	33.589	35.275	1.2748	32.205	33.578	35.201	1.2597	-0.0732	-0.0116	0.0685	0.060322
5e+12	35.648	37.543	39.876	2.178	35.731	37.656	39.939	2.1083	0.0048	0.11335	0.3536	0.16189
1e+13	35.331	37.228	40.798	2.4366	35.354	37.705	41.686	2.7519	0.0226	0.47775	0.8884	0.4175

Device Test: 13.33 THRESHOLD|DELAY/EN/14/13.9//10//@T_EN_DELAY

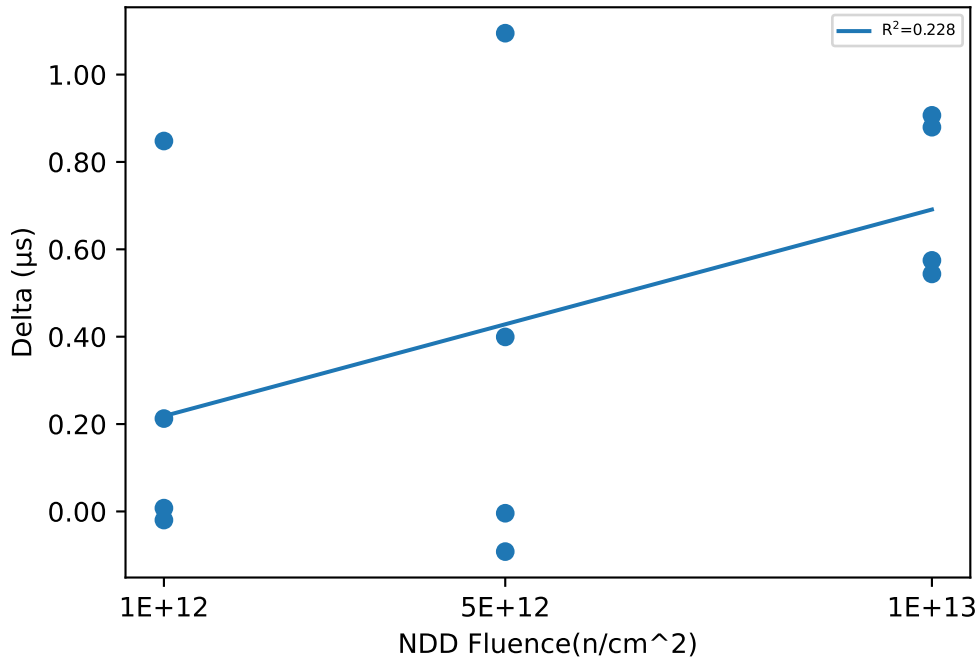
NDD vs Result Stats



Test Results (Upper Limit = 150.0 (µs))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		32.268	
55	0	CORRELATION		34.794	
56	0	CORRELATION		32.184	
64	1e+12	NDD	30.878	30.886	0.0076
65	1e+12	NDD	30.994	31.842	0.8479
66	1e+12	NDD	33.549	33.529	-0.0197
67	1e+12	NDD	30.053	30.266	0.2126
68	5e+12	NDD	37.969	37.877	-0.0919
69	5e+12	NDD	33.124	34.219	1.0947
70	5e+12	NDD	33.82	33.816	-0.0041
71	5e+12	NDD	36.72	37.12	0.3995
72	1e+13	NDD	34.535	35.11	0.5747
73	1e+13	NDD	32.886	33.43	0.5437
74	1e+13	NDD	38.891	39.77	0.8795
75	1e+13	NDD	33.836	34.742	0.9067

NDD vs Post - Pre Exposure Delta

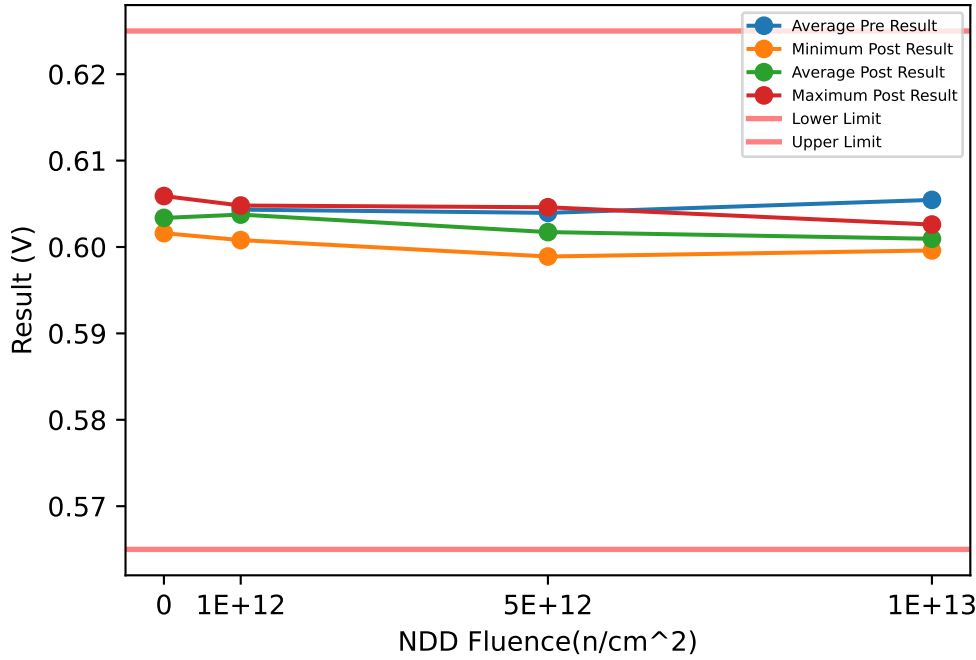


Test Statistics (µs)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					32.184	33.082	34.794	1.483				
1e+12	30.053	31.369	33.549	1.5129	30.266	31.631	33.529	1.4222	-0.0197	0.2621	0.8479	0.40406
5e+12	33.124	35.408	37.969	2.3106	33.816	35.758	37.877	2.0399	-0.0919	0.34955	1.0947	0.54089
1e+13	32.886	35.037	38.891	2.6567	33.43	35.763	39.77	2.7672	0.5437	0.72615	0.9067	0.19351

Device Test: 13.4 THRESHOLD|RISE/EN/3.3/0.6//10//@VIH_EN

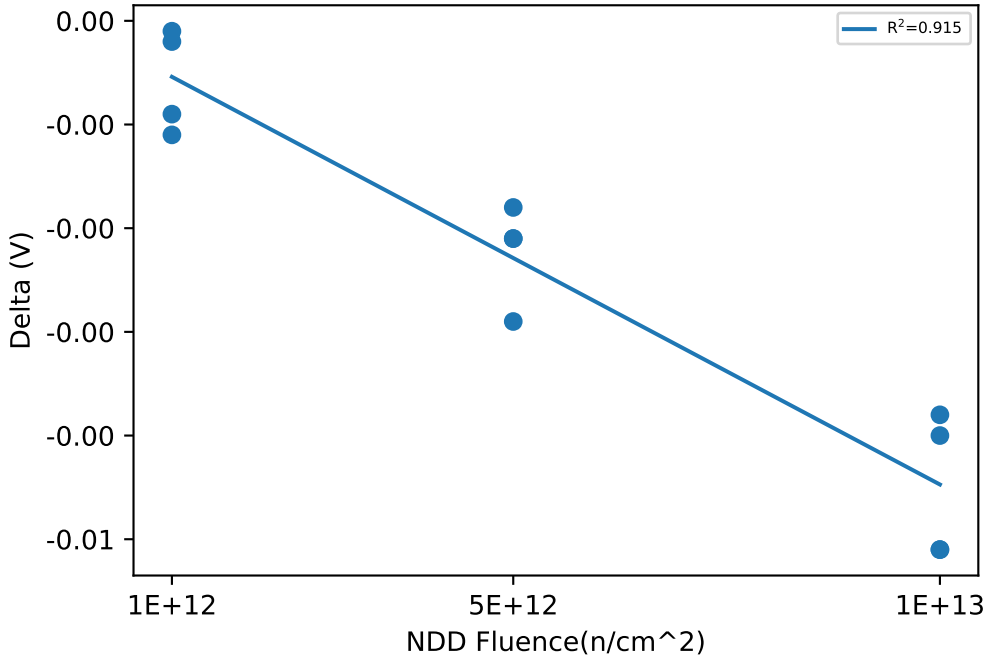
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6059	
55	0	CORRELATION		0.6026	
56	0	CORRELATION		0.6016	
64	1e+12	NDD	0.6017	0.6008	-0.0009
65	1e+12	NDD	0.6049	0.6048	-0.0001
66	1e+12	NDD	0.6057	0.6046	-0.0011
67	1e+12	NDD	0.605	0.6048	-0.0002
68	5e+12	NDD	0.6007	0.5989	-0.0018
69	5e+12	NDD	0.6067	0.6046	-0.0021
70	5e+12	NDD	0.6047	0.6026	-0.0021
71	5e+12	NDD	0.6037	0.6008	-0.0029
72	1e+13	NDD	0.6047	0.5996	-0.0051
73	1e+13	NDD	0.6059	0.6008	-0.0051
74	1e+13	NDD	0.6046	0.6008	-0.0038
75	1e+13	NDD	0.6066	0.6026	-0.004

NDD vs Post - Pre Exposure Delta

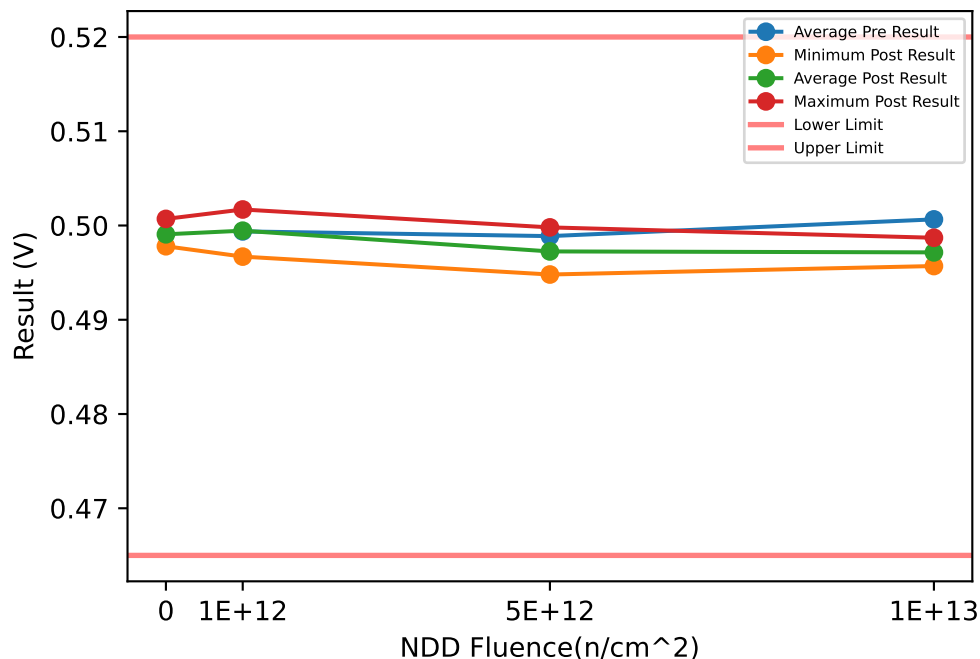


Test Statistics (V)

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					0.6016	0.60337	0.6059	0.0022502				
1e+12	0.6017	0.60433	0.6057	0.0017858	0.6008	0.60375	0.6048	0.0019689	-0.0011	-0.000575	-0.0001	0.00049917
5e+12	0.6007	0.60395	0.6067	0.0025	0.5989	0.60173	0.6046	0.0024405	-0.0029	-0.002225	-0.0018	0.0004717
1e+13	0.6046	0.60545	0.6066	0.00096782	0.5996	0.60095	0.6026	0.0012369	-0.0051	-0.0045	-0.0038	0.00069761

Device Test: 13.5 THRESHOLD|FALL/EN/3.3/0.6//10//@VIL_EN

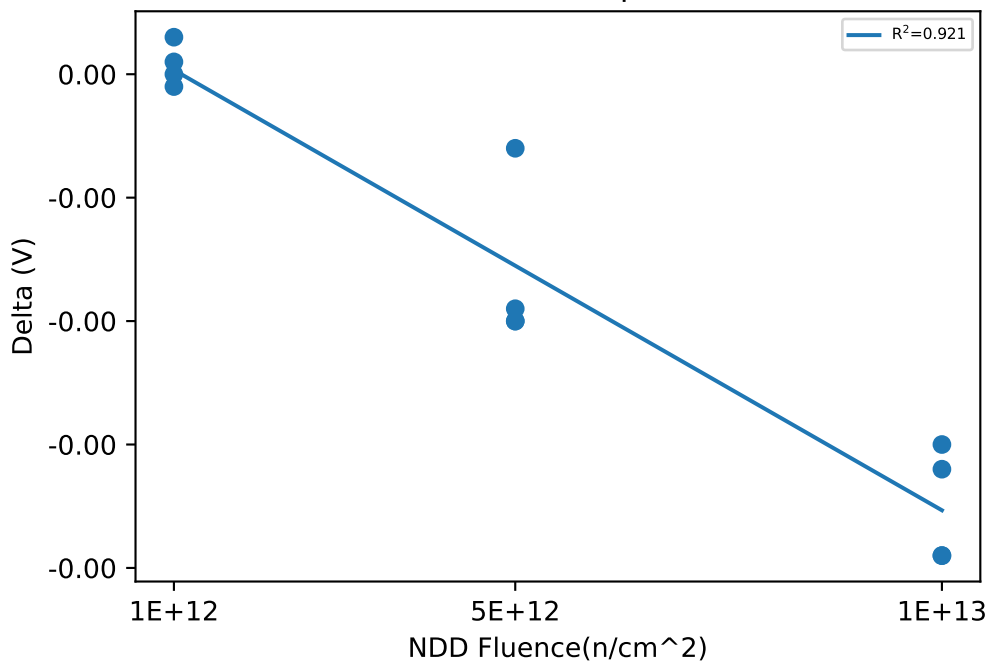
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5007	
55	0	CORRELATION		0.4987	
56	0	CORRELATION		0.4978	
64	1e+12	NDD	0.4968	0.4967	-0.0001
65	1e+12	NDD	0.4994	0.4997	0.0003
66	1e+12	NDD	0.5017	0.5017	0
67	1e+12	NDD	0.4996	0.4997	0.0001
68	5e+12	NDD	0.4954	0.4948	-0.0006
69	5e+12	NDD	0.5017	0.4998	-0.0019
70	5e+12	NDD	0.4997	0.4977	-0.002
71	5e+12	NDD	0.4987	0.4967	-0.002
72	1e+13	NDD	0.4996	0.4957	-0.0039
73	1e+13	NDD	0.5007	0.4975	-0.0032
74	1e+13	NDD	0.5006	0.4967	-0.0039
75	1e+13	NDD	0.5017	0.4987	-0.003

NDD vs Post - Pre Exposure Delta

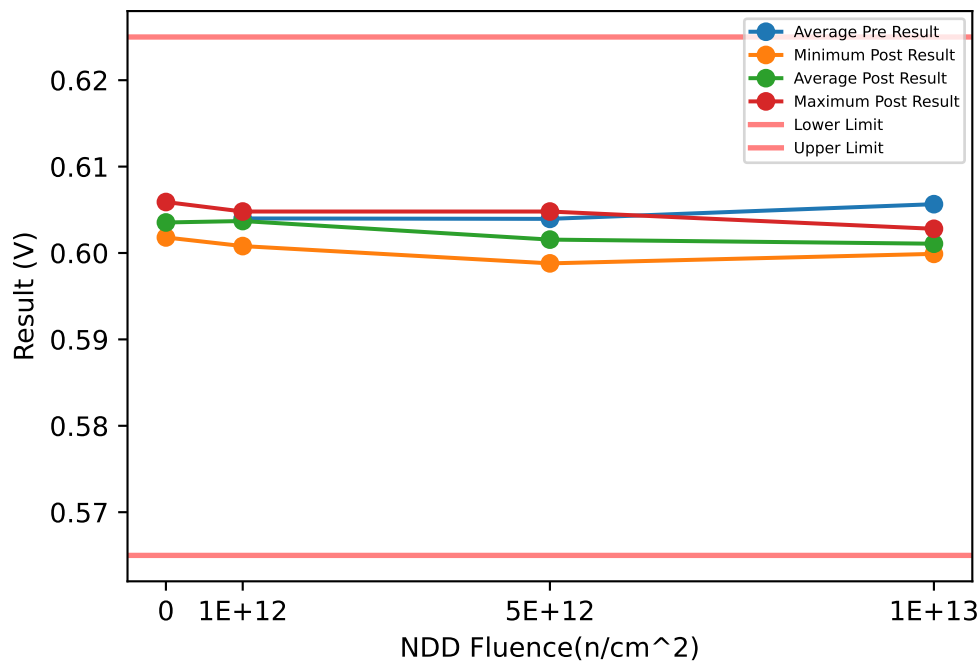


Test Statistics (V)

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					0.4978	0.49907	0.5007	0.0014844				
1e+12	0.4968	0.49938	0.5017	0.0020073	0.4967	0.49945	0.5017	0.0020616	-0.0001	7.5e-05	0.0003	0.00017078
5e+12	0.4954	0.49888	0.5017	0.0026311	0.4948	0.49725	0.4998	0.0020825	-0.002	-0.001625	-0.0006	0.00068496
1e+13	0.4996	0.50065	0.5017	0.00085829	0.4957	0.49715	0.4987	0.0012689	-0.0039	-0.0035	-0.003	0.00046904

Device Test: 13.7 THRESHOLD|RISE/EN/5/0.6//10//@VIH_EN

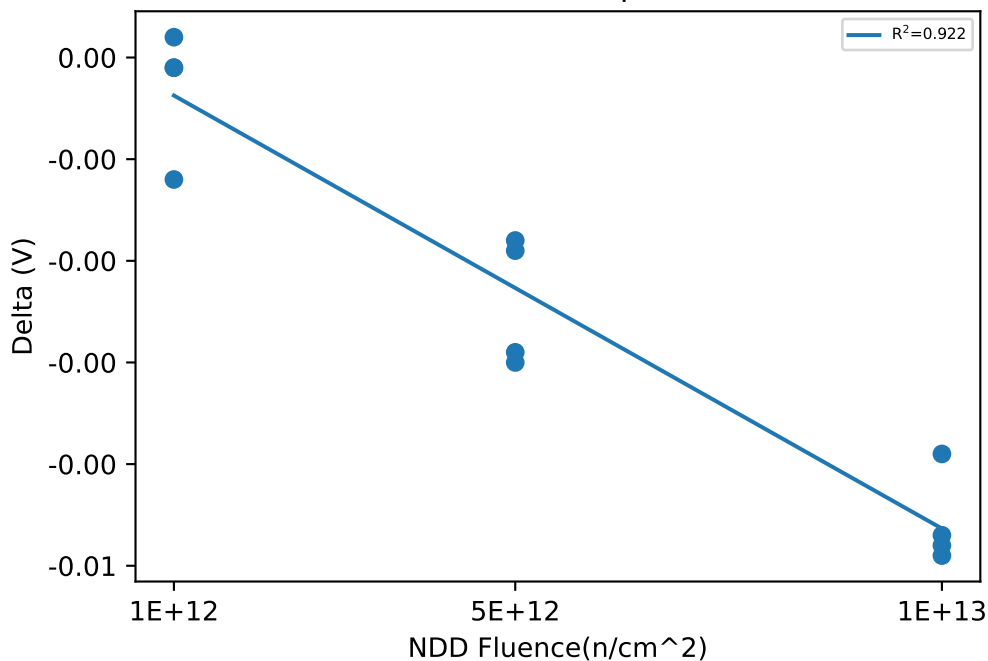
NDD vs Result Stats



Test Results (Lower Limit = 0.565, Upper Limit = 0.625 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6059	
55	0	CORRELATION		0.6029	
56	0	CORRELATION		0.6018	
64	1e+12	NDD	0.6006	0.6008	0.0002
65	1e+12	NDD	0.6047	0.6046	-0.0001
66	1e+12	NDD	0.6058	0.6046	-0.0012
67	1e+12	NDD	0.6049	0.6048	-0.0001
68	5e+12	NDD	0.6006	0.5988	-0.0018
69	5e+12	NDD	0.6067	0.6048	-0.0019
70	5e+12	NDD	0.6048	0.6018	-0.003
71	5e+12	NDD	0.6037	0.6008	-0.0029
72	1e+13	NDD	0.6048	0.5999	-0.0049
73	1e+13	NDD	0.6055	0.6008	-0.0047
74	1e+13	NDD	0.6056	0.6008	-0.0048
75	1e+13	NDD	0.6067	0.6028	-0.0039

NDD vs Post - Pre Exposure Delta

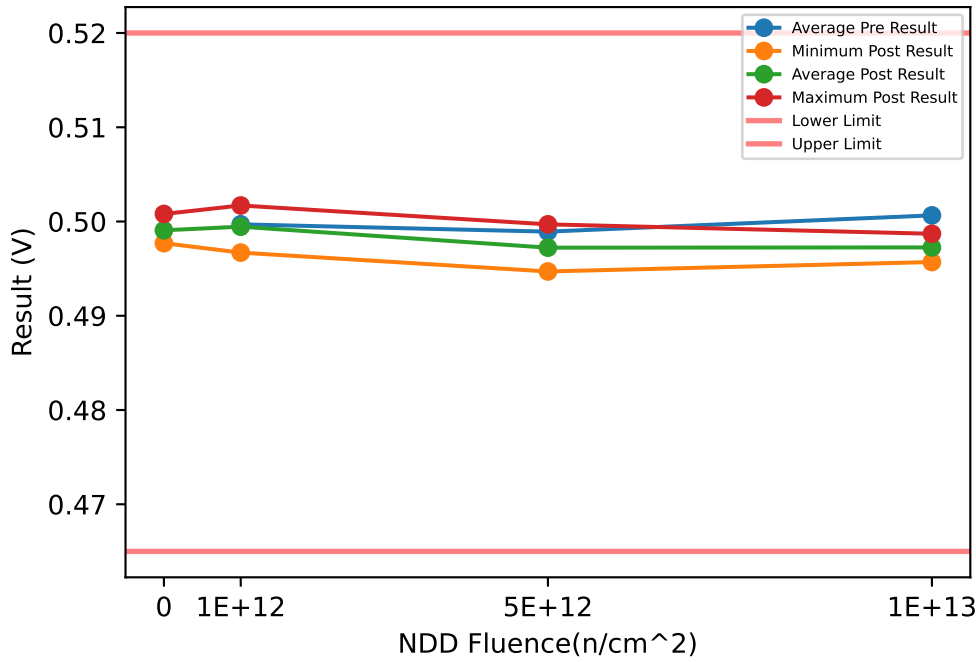


Test Statistics (V)

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					0.6018	0.60353	0.6059	0.0021221				
1e+12	0.6006	0.604	0.6058	0.0023166	0.6008	0.6037	0.6048	0.0019356	-0.0012	-0.0003	0.0002	0.00061644
5e+12	0.6006	0.60395	0.6067	0.0025541	0.5988	0.60155	0.6048	0.0025	-0.003	-0.0024	-0.0018	0.0006377
1e+13	0.6048	0.60565	0.6067	0.00078528	0.5999	0.60108	0.6028	0.0012258	-0.0049	-0.004575	-0.0039	0.00045735

Device Test: 13.8 THRESHOLD|FALL/EN/5/0.6//10//@VIL_EN

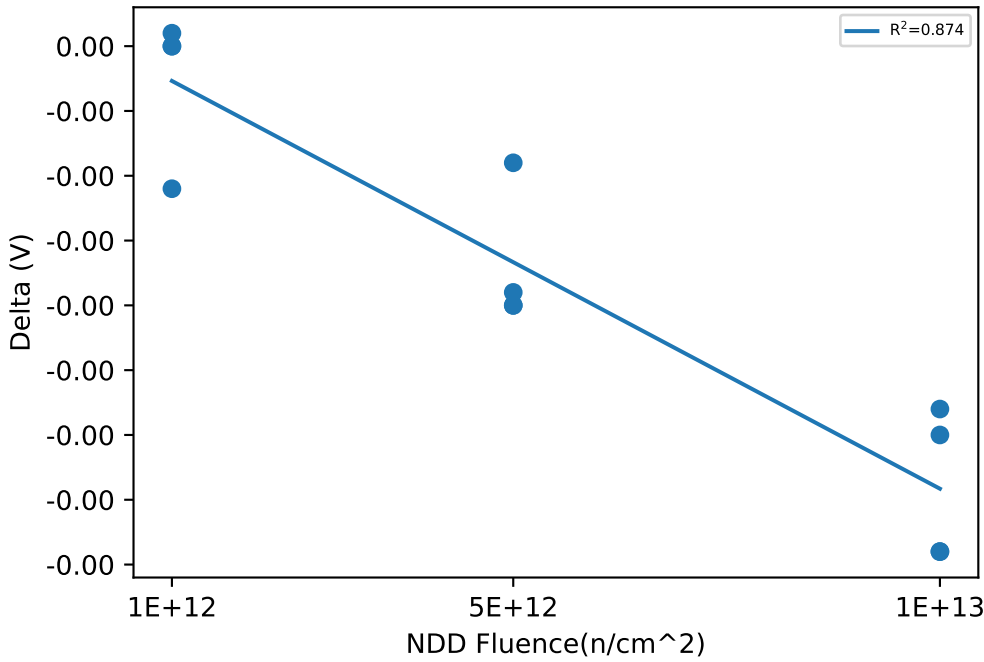
NDD vs Result Stats



Test Results (Lower Limit = 0.465, Upper Limit = 0.52 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5008	
55	0	CORRELATION		0.4987	
56	0	CORRELATION		0.4977	
64	1e+12	NDD	0.4967	0.4967	0
65	1e+12	NDD	0.5008	0.4997	-0.0011
66	1e+12	NDD	0.5017	0.5017	0
67	1e+12	NDD	0.4996	0.4997	0.0001
68	5e+12	NDD	0.4956	0.4947	-0.0009
69	5e+12	NDD	0.5017	0.4997	-0.002
70	5e+12	NDD	0.4997	0.4977	-0.002
71	5e+12	NDD	0.4987	0.4968	-0.0019
72	1e+13	NDD	0.4996	0.4957	-0.0039
73	1e+13	NDD	0.5006	0.4978	-0.0028
74	1e+13	NDD	0.5007	0.4968	-0.0039
75	1e+13	NDD	0.5017	0.4987	-0.003

NDD vs Post - Pre Exposure Delta

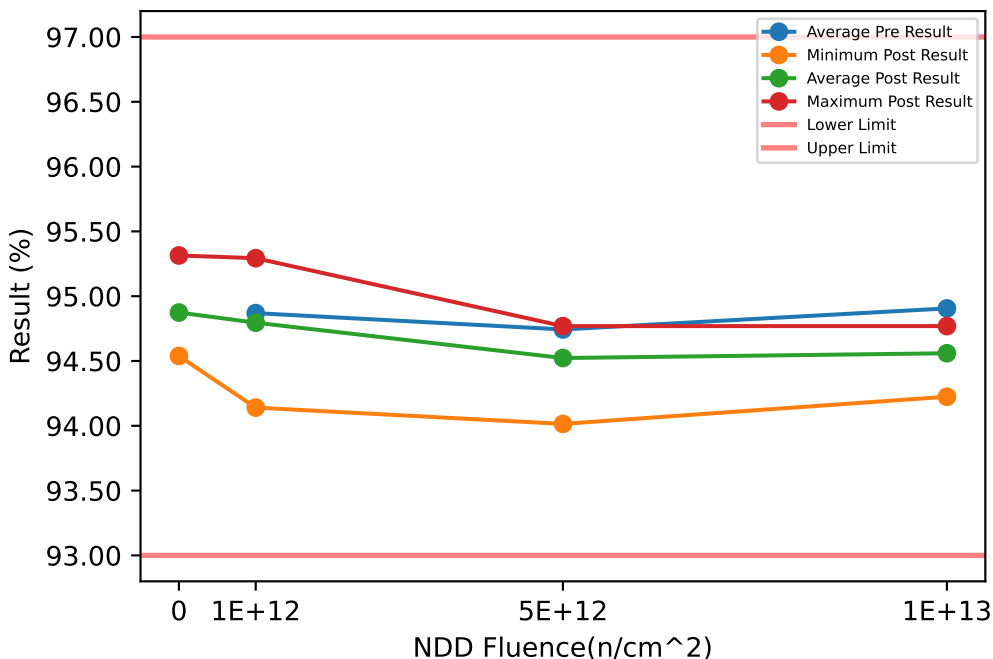


Test Statistics (V)

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					0.4977	0.49907	0.5008	0.0015822				
1e+12	0.4967	0.4997	0.5017	0.0021772	0.4967	0.49945	0.5017	0.0020616	-0.0011	-0.00025	0.0001	0.00056862
5e+12	0.4956	0.49893	0.5017	0.0025435	0.4947	0.49722	0.4997	0.0020742	-0.002	-0.0017	-0.0009	0.00053541
1e+13	0.4996	0.50065	0.5017	0.00085829	0.4957	0.49725	0.4987	0.0012923	-0.0039	-0.0034	-0.0028	0.0005831

Device Test: 14.1 HRESHOLD|RISE/FB/2.25/0.6//10//@VPG_RISE

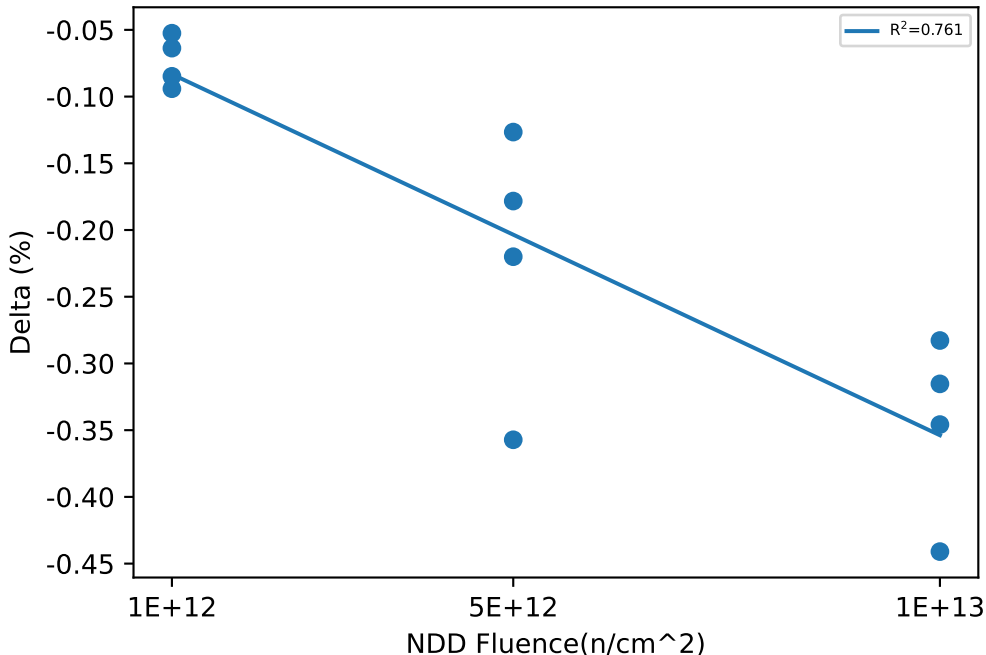
NDD vs Result Stats



Test Results (Lower Limit = 93.0, Upper Limit = 97.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		94.539	
55	0	CORRELATION		94.769	
56	0	CORRELATION		95.314	
64	1e+12	NDD	95.073	94.979	-0.0941
65	1e+12	NDD	94.854	94.769	-0.0848
66	1e+12	NDD	94.193	94.14	-0.0525
67	1e+12	NDD	95.357	95.293	-0.0637
68	5e+12	NDD	94.193	94.015	-0.1783
69	5e+12	NDD	94.77	94.644	-0.1266
70	5e+12	NDD	94.884	94.664	-0.22
71	5e+12	NDD	95.126	94.769	-0.3572
72	1e+13	NDD	94.57	94.224	-0.3458
73	1e+13	NDD	94.854	94.539	-0.3153
74	1e+13	NDD	94.989	94.706	-0.2828
75	1e+13	NDD	95.21	94.769	-0.441

NDD vs Post - Pre Exposure Delta

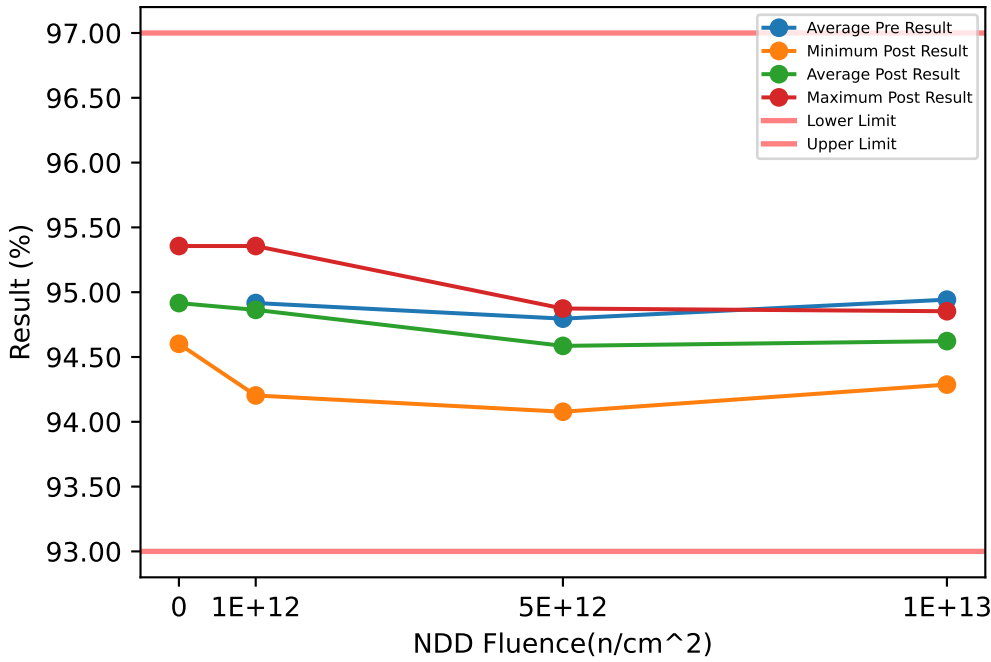


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					94.539	94.874	95.314	0.39824				
1e+12	94.193	94.869	95.357	0.49568	94.14	94.795	95.293	0.48693	-0.0941	-0.073775	-0.0525	0.019051
5e+12	94.193	94.743	95.126	0.39595	94.015	94.523	94.769	0.34332	-0.3572	-0.22052	-0.1266	0.098801
1e+13	94.57	94.906	95.21	0.2677	94.224	94.56	94.769	0.24382	-0.441	-0.34622	-0.2828	0.068219

Device Test: 14.10 HRESHOLD|RISE/FB/7/0.6//10//@VPG_RISE

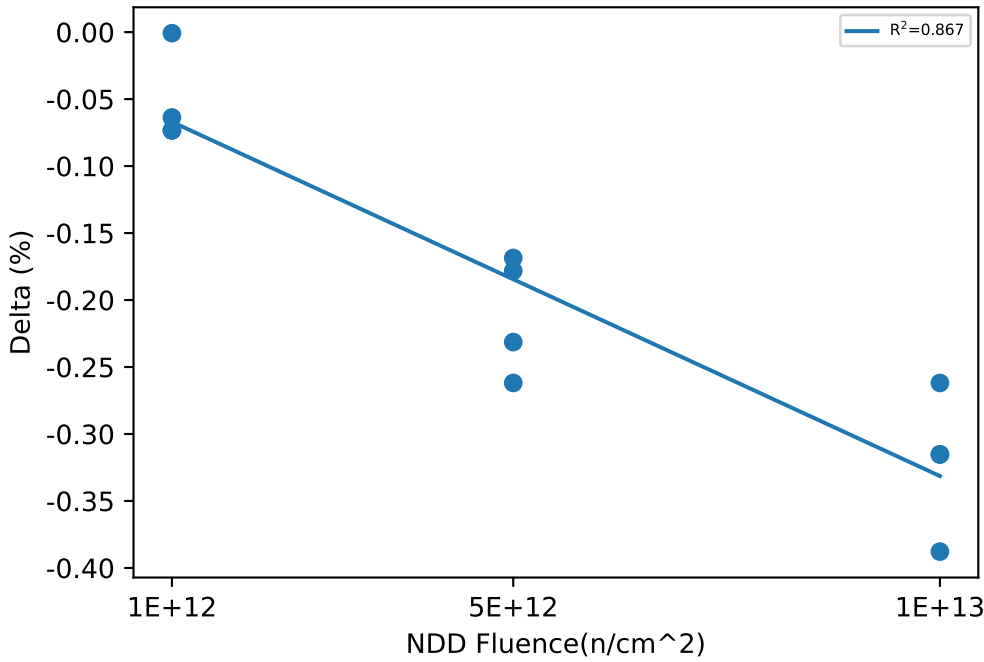
NDD vs Result Stats



Test Results (Lower Limit = 93.0, Upper Limit = 97.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		94.602	
55	0	CORRELATION		94.79	
56	0	CORRELATION		95.356	
64	1e+12	NDD	95.115	95.042	-0.0733
65	1e+12	NDD	94.917	94.853	-0.0637
66	1e+12	NDD	94.277	94.203	-0.0734
67	1e+12	NDD	95.357	95.356	-0.0008
68	5e+12	NDD	94.256	94.078	-0.1782
69	5e+12	NDD	94.833	94.664	-0.1686
70	5e+12	NDD	94.989	94.727	-0.2619
71	5e+12	NDD	95.106	94.874	-0.2314
72	1e+13	NDD	94.675	94.287	-0.3878
73	1e+13	NDD	94.896	94.581	-0.3153
74	1e+13	NDD	95.031	94.769	-0.2619
75	1e+13	NDD	95.168	94.853	-0.3152

NDD vs Post - Pre Exposure Delta

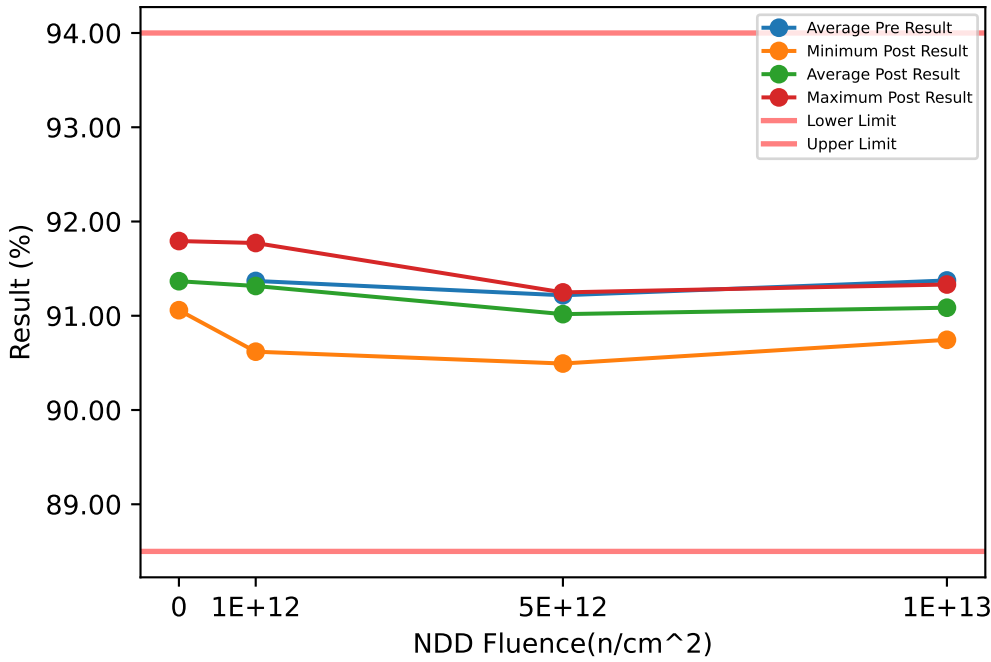


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					94.602	94.916	95.356	0.39271				
1e+12	94.277	94.916	95.357	0.46288	94.203	94.864	95.356	0.48665	-0.0734	-0.0528	-0.0008	0.034964
5e+12	94.256	94.796	95.106	0.37701	94.078	94.586	94.874	0.35009	-0.2619	-0.21003	-0.1686	0.04426
1e+13	94.675	94.943	95.168	0.21025	94.287	94.623	94.853	0.25096	-0.3878	-0.32005	-0.2619	0.051696

Device Test: 14.11 HRESHOLD|FALL/FB/7/0.6//10//@VPG_FALL

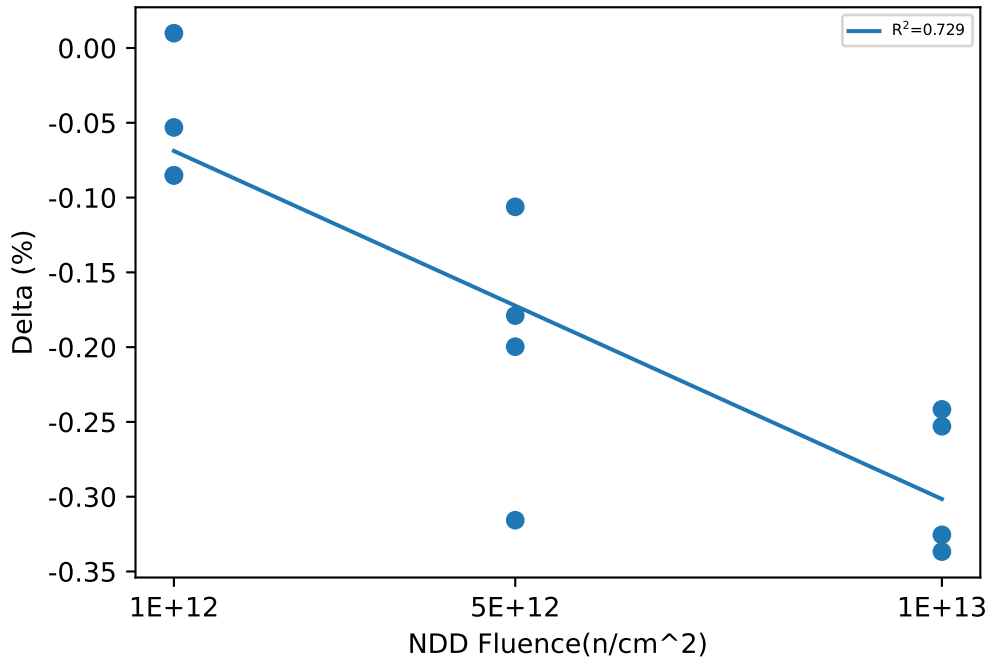
NDD vs Result Stats



Test Results (Lower Limit = 88.5, Upper Limit = 94.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		91.059	
55	0	CORRELATION		91.248	
56	0	CORRELATION		91.793	
64	1e+12	NDD	91.531	91.541	0.0099
65	1e+12	NDD	91.417	91.332	-0.0852
66	1e+12	NDD	90.672	90.619	-0.0531
67	1e+12	NDD	91.857	91.772	-0.0851
68	5e+12	NDD	90.672	90.493	-0.1789
69	5e+12	NDD	91.249	91.143	-0.1062
70	5e+12	NDD	91.385	91.185	-0.1997
71	5e+12	NDD	91.564	91.248	-0.3157
72	1e+13	NDD	91.07	90.745	-0.3255
73	1e+13	NDD	91.333	91.08	-0.2529
74	1e+13	NDD	91.427	91.185	-0.2416
75	1e+13	NDD	91.668	91.332	-0.3367

NDD vs Post - Pre Exposure Delta

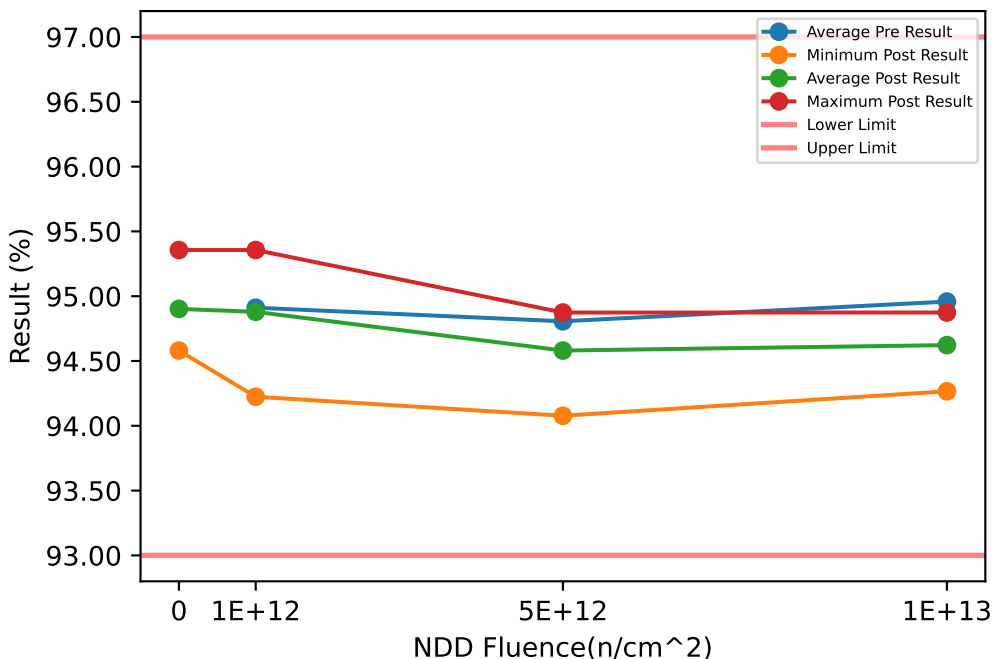


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					91.059	91.367	91.793	0.38094				
1e+12	90.672	91.369	91.857	0.50083	90.619	91.316	91.772	0.49822	-0.0852	-0.053375	0.0099	0.044807
5e+12	90.672	91.217	91.564	0.38566	90.493	91.017	91.248	0.35203	-0.3157	-0.20013	-0.1062	0.086853
1e+13	91.07	91.374	91.668	0.24722	90.745	91.085	91.332	0.24941	-0.3367	-0.28918	-0.2416	0.048845

Device Test: 14.13 HRESHOLD|RISE/FB/12/0.6//10//@VPG_RISE

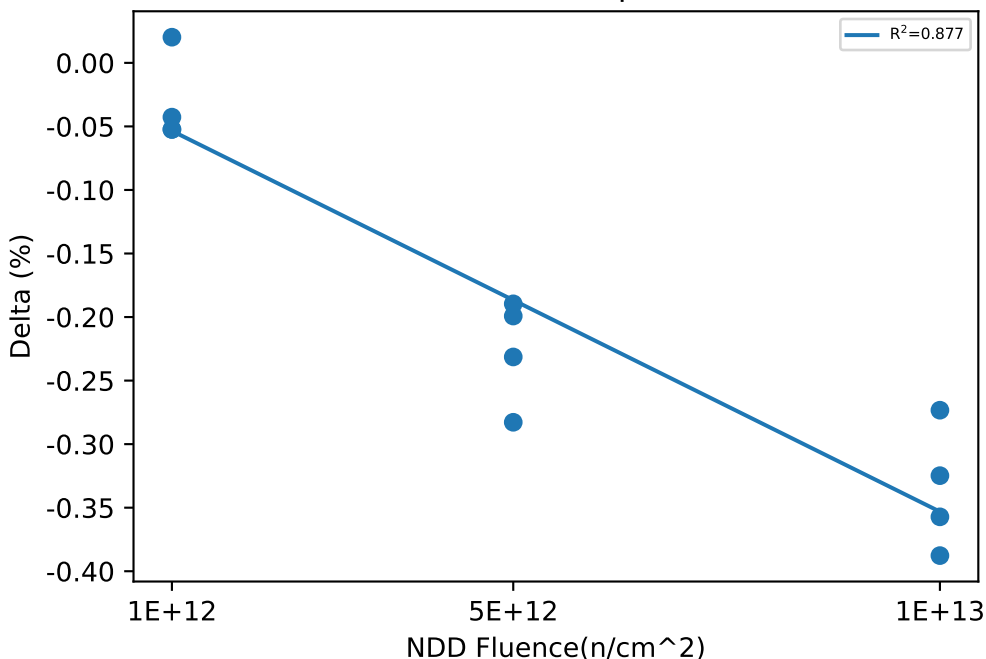
NDD vs Result Stats



Test Results (Lower Limit = 93.0, Upper Limit = 97.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		94.581	
55	0	CORRELATION		94.769	
56	0	CORRELATION		95.356	
64	1e+12	NDD	95.115	95.063	-0.0523
65	1e+12	NDD	94.917	94.874	-0.0427
66	1e+12	NDD	94.277	94.224	-0.0524
67	1e+12	NDD	95.336	95.356	0.0202
68	5e+12	NDD	94.277	94.078	-0.1992
69	5e+12	NDD	94.854	94.664	-0.1896
70	5e+12	NDD	94.989	94.706	-0.2828
71	5e+12	NDD	95.106	94.874	-0.2314
72	1e+13	NDD	94.654	94.266	-0.3877
73	1e+13	NDD	94.938	94.581	-0.3572
74	1e+13	NDD	95.094	94.769	-0.3248
75	1e+13	NDD	95.147	94.874	-0.2733

NDD vs Post - Pre Exposure Delta

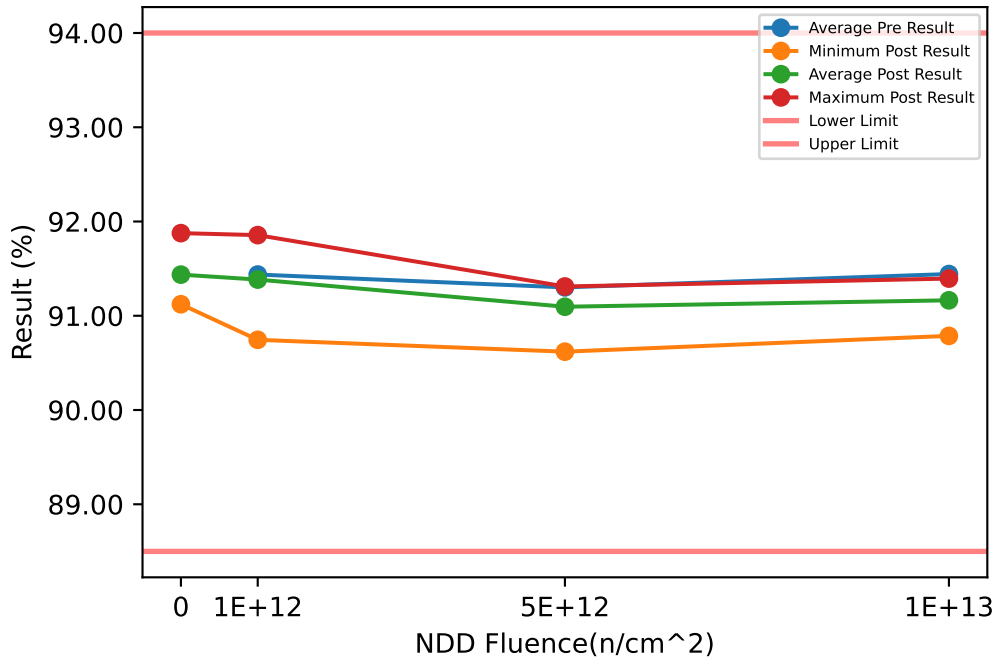


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					94.581	94.902	95.356	0.40449				
1e+12	94.277	94.911	95.336	0.45629	94.224	94.879	95.356	0.47963	-0.0524	-0.0318	0.0202	0.034964
5e+12	94.277	94.806	95.106	0.36775	94.078	94.581	94.874	0.34742	-0.2828	-0.22575	-0.1896	0.042025
1e+13	94.654	94.958	95.147	0.22155	94.266	94.623	94.874	0.26679	-0.3877	-0.33575	-0.2733	0.048918

Device Test: 14.14 HRESHOLD|FALL/FB/12/0.6//10//@VPG_FALL

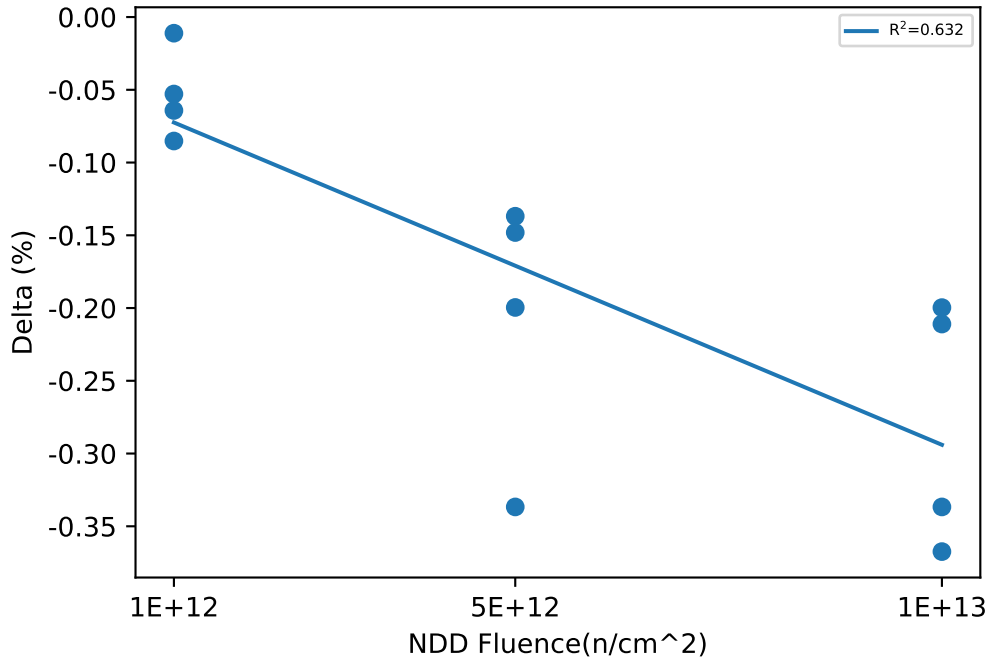
NDD vs Result Stats



Test Results (Lower Limit = 88.5, Upper Limit = 94.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		91.122	
55	0	CORRELATION		91.311	
56	0	CORRELATION		91.877	
64	1e+12	NDD	91.594	91.541	-0.0529
65	1e+12	NDD	91.48	91.394	-0.0852
66	1e+12	NDD	90.756	90.745	-0.0111
67	1e+12	NDD	91.92	91.856	-0.0642
68	5e+12	NDD	90.756	90.619	-0.1369
69	5e+12	NDD	91.354	91.206	-0.1481
70	5e+12	NDD	91.447	91.248	-0.1996
71	5e+12	NDD	91.647	91.311	-0.3367
72	1e+13	NDD	91.154	90.787	-0.3674
73	1e+13	NDD	91.354	91.143	-0.211
74	1e+13	NDD	91.531	91.332	-0.1997
75	1e+13	NDD	91.731	91.394	-0.3367

NDD vs Post - Pre Exposure Delta

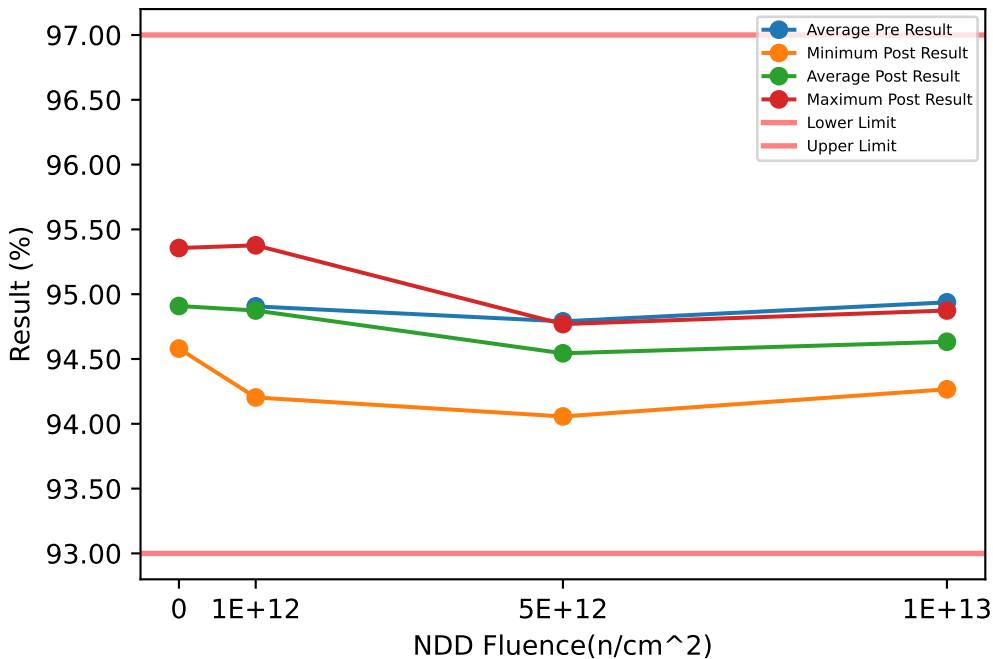


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					91.122	91.436	91.877	0.39271				
1e+12	90.756	91.437	91.92	0.49113	90.745	91.384	91.856	0.46759	-0.0852	-0.05335	-0.0111	0.031184
5e+12	90.756	91.301	91.647	0.38358	90.619	91.096	91.311	0.32082	-0.3367	-0.20533	-0.1369	0.09174
1e+13	91.154	91.443	91.731	0.24652	90.787	91.164	91.394	0.27331	-0.3674	-0.2787	-0.1997	0.085744

Device Test: 14.16 HRESHOLD|RISE/FB/14/0.6//10//@VPG_RISE

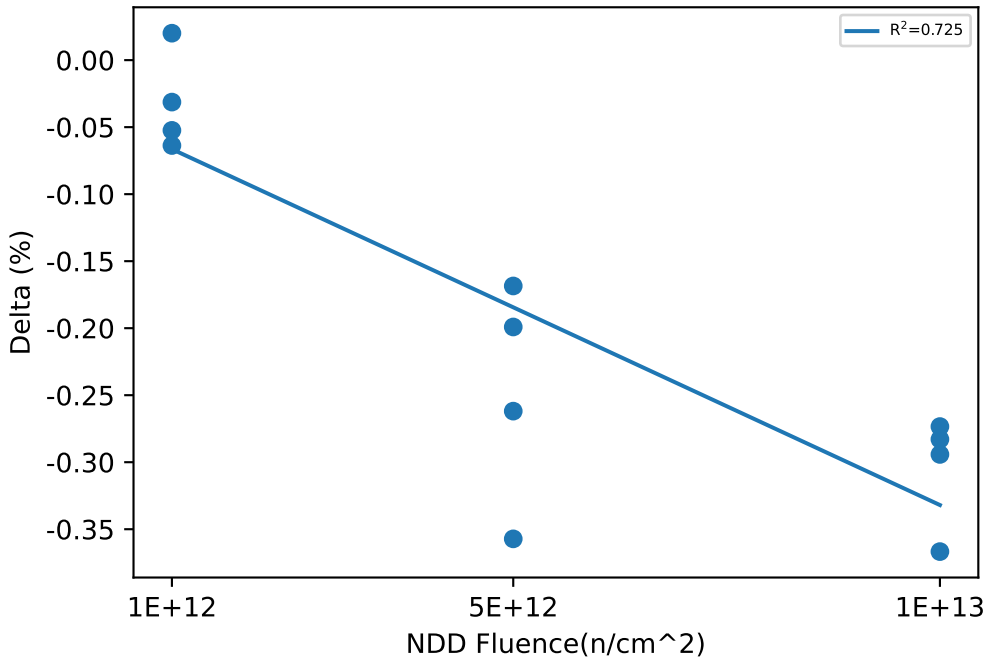
NDD vs Result Stats



Test Results (Lower Limit = 93.0, Upper Limit = 97.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		94.581	
55	0	CORRELATION		94.79	
56	0	CORRELATION		95.356	
64	1e+12	NDD	95.094	95.063	-0.0313
65	1e+12	NDD	94.917	94.853	-0.0637
66	1e+12	NDD	94.256	94.203	-0.0524
67	1e+12	NDD	95.357	95.377	0.0201
68	5e+12	NDD	94.256	94.057	-0.1991
69	5e+12	NDD	94.812	94.644	-0.1685
70	5e+12	NDD	94.968	94.706	-0.2619
71	5e+12	NDD	95.126	94.769	-0.3572
72	1e+13	NDD	94.633	94.266	-0.3667
73	1e+13	NDD	94.896	94.623	-0.2734
74	1e+13	NDD	95.052	94.769	-0.2829
75	1e+13	NDD	95.168	94.874	-0.2942

NDD vs Post - Pre Exposure Delta

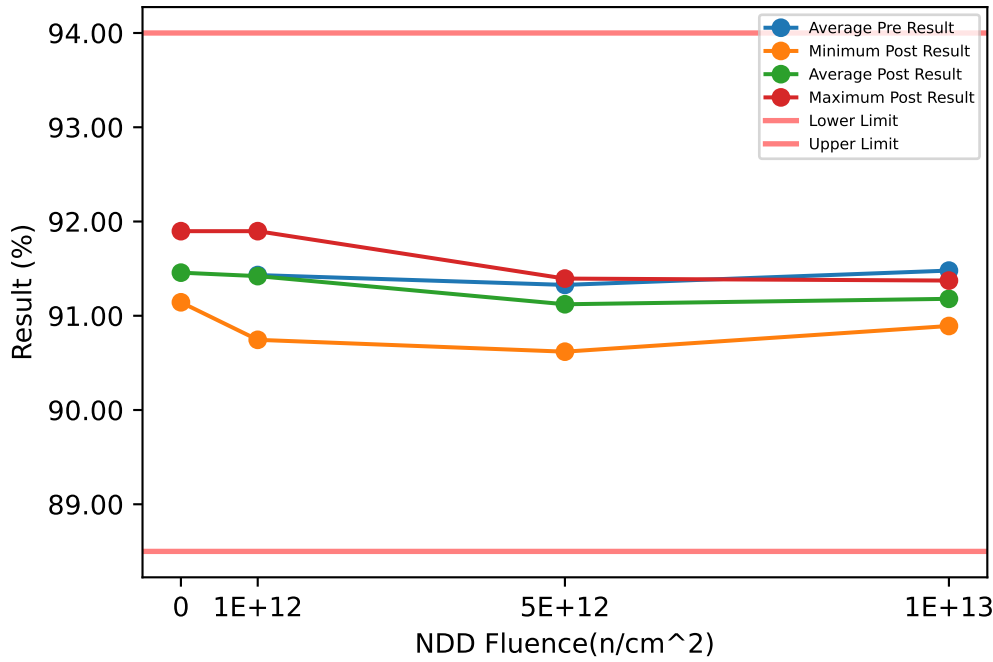


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					94.581	94.909	95.356	0.40122				
1e+12	94.256	94.906	95.357	0.46966	94.203	94.874	95.377	0.49632	-0.0637	-0.031825	0.0201	0.03713
5e+12	94.256	94.791	95.126	0.379	94.057	94.544	94.769	0.32891	-0.3572	-0.24667	-0.1685	0.083311
1e+13	94.633	94.937	95.168	0.2316	94.266	94.633	94.874	0.26541	-0.3667	-0.3043	-0.2734	0.04246

Device Test: 14.17 HRESHOLD|FALL/FB/14/0.6//10//@VPG_FALL

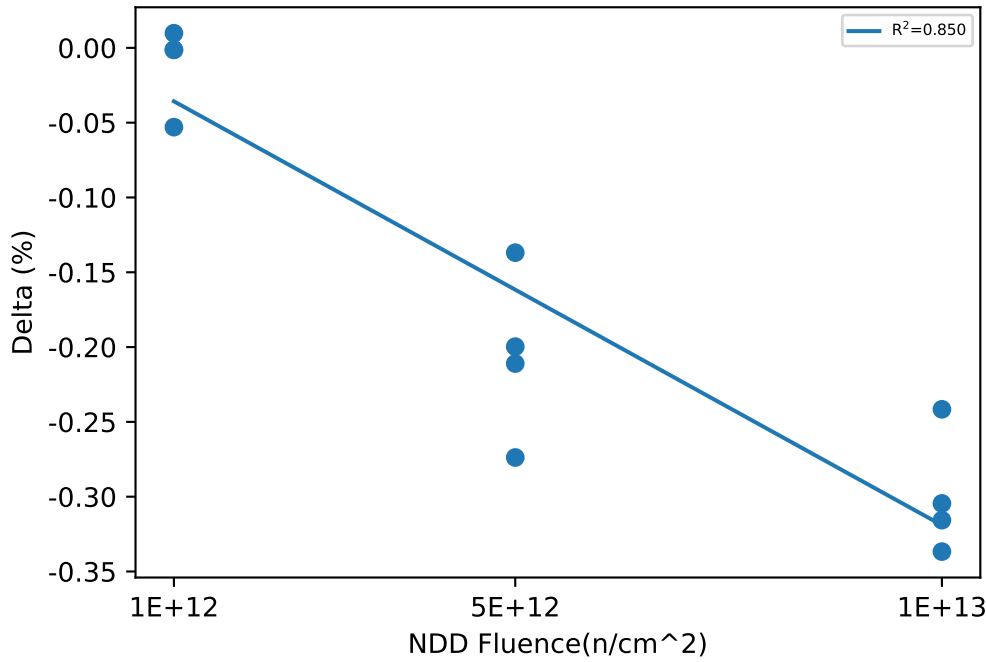
NDD vs Result Stats



Test Results (Lower Limit = 88.5, Upper Limit = 94.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		91.143	
55	0	CORRELATION		91.332	
56	0	CORRELATION		91.897	
64	1e+12	NDD	91.636	91.583	-0.053
65	1e+12	NDD	91.459	91.457	-0.0013
66	1e+12	NDD	90.735	90.745	0.0098
67	1e+12	NDD	91.899	91.897	-0.0013
68	5e+12	NDD	90.756	90.619	-0.1369
69	5e+12	NDD	91.417	91.206	-0.211
70	5e+12	NDD	91.468	91.269	-0.1997
71	5e+12	NDD	91.668	91.394	-0.2738
72	1e+13	NDD	91.196	90.891	-0.3045
73	1e+13	NDD	91.438	91.122	-0.3157
74	1e+13	NDD	91.573	91.332	-0.2416
75	1e+13	NDD	91.71	91.374	-0.3367

NDD vs Post - Pre Exposure Delta

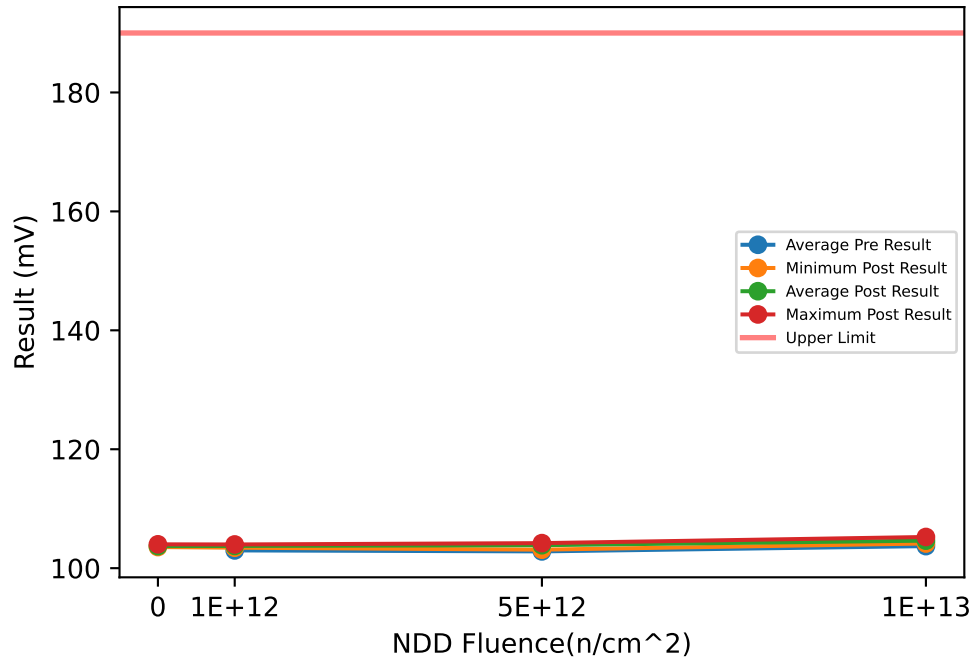


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					91.143	91.457	91.897	0.3927				
1e+12	90.735	91.432	91.899	0.49874	90.745	91.421	91.897	0.48718	-0.053	-0.01145	0.0098	0.02819
5e+12	90.756	91.327	91.668	0.39615	90.619	91.122	91.394	0.34444	-0.2738	-0.20535	-0.1369	0.056079
1e+13	91.196	91.479	91.71	0.21922	90.891	91.18	91.374	0.22142	-0.3367	-0.29962	-0.2416	0.040921

Device Test: 14.19 LEVELS|VOL/PG/2.25/////@VPG_OL

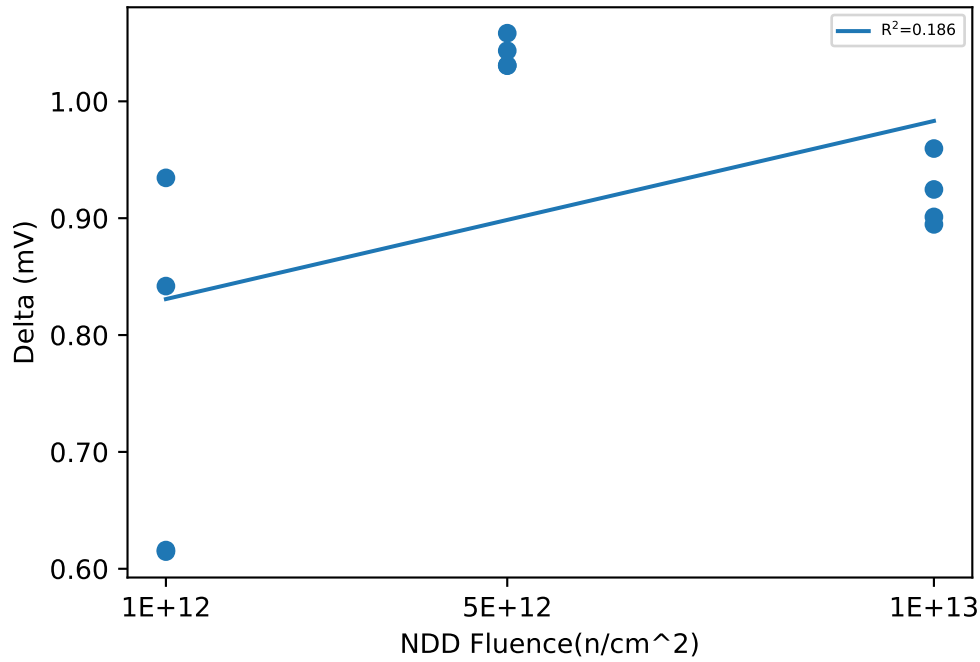
NDD vs Result Stats



Test Results (Upper Limit = 190.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		104.01	
55	0	CORRELATION		103.58	
56	0	CORRELATION		103.55	
64	1e+12	NDD	102.6	103.44	0.8419
65	1e+12	NDD	103.26	103.87	0.6147
66	1e+12	NDD	103.37	103.99	0.616
67	1e+12	NDD	102.72	103.66	0.9345
68	5e+12	NDD	103.18	104.21	1.0308
69	5e+12	NDD	102.88	103.94	1.0583
70	5e+12	NDD	102.08	103.11	1.0305
71	5e+12	NDD	103.14	104.19	1.0433
72	1e+13	NDD	104.34	105.24	0.9011
73	1e+13	NDD	103.87	104.77	0.8947
74	1e+13	NDD	103.22	104.15	0.9246
75	1e+13	NDD	103.4	104.36	0.9596

NDD vs Post - Pre Exposure Delta

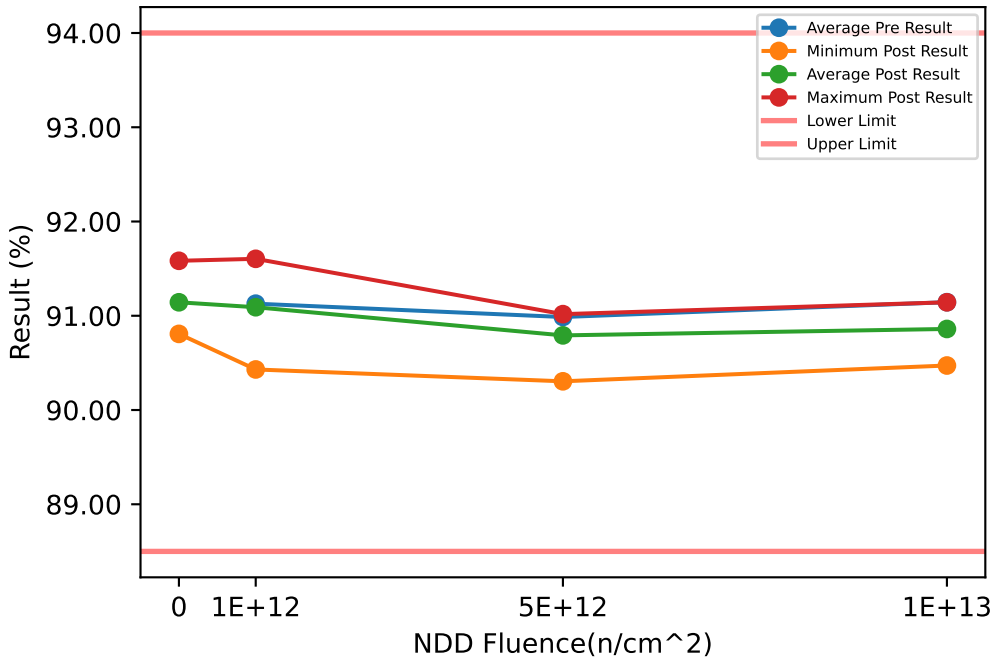


Test Statistics (mV)

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					103.55	103.71	104.01	0.25815				
1e+12	102.6	102.99	103.37	0.3841	103.44	103.74	103.99	0.24201	0.6147	0.75177	0.9345	0.162
5e+12	102.08	102.82	103.18	0.51194	103.11	103.86	104.21	0.51592	1.0305	1.0407	1.0583	0.013147
1e+13	103.22	103.71	104.34	0.50346	104.15	104.63	105.24	0.48365	0.8947	0.92	0.9596	0.029363

Device Test: 14.2 HRESHOLD|FALL/FB/2.25/0.6//10//@VPG_FALL

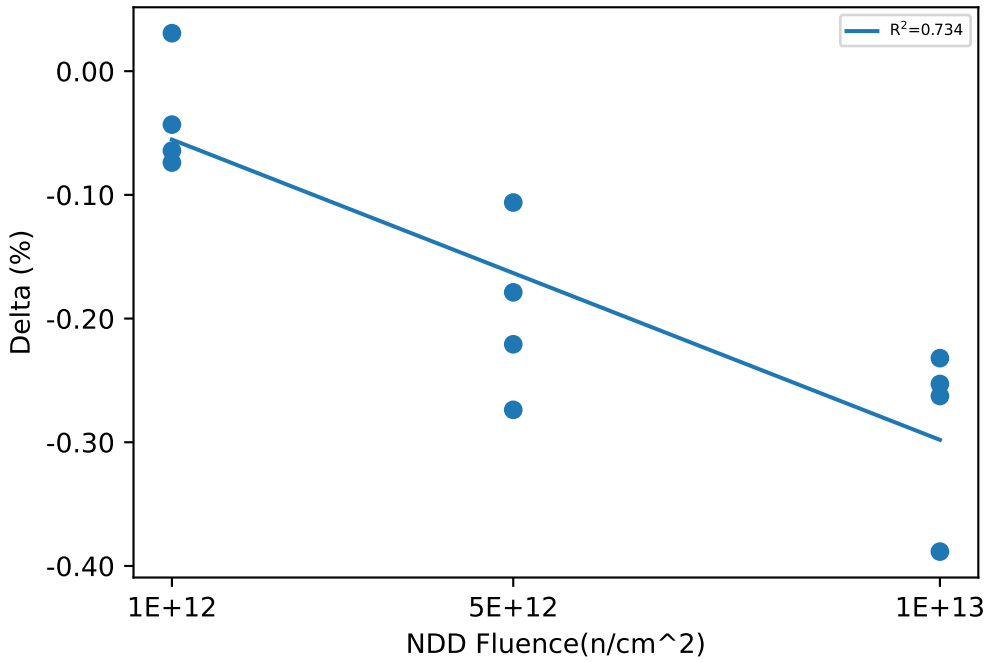
NDD vs Result Stats



Test Results (Lower Limit = 88.5, Upper Limit = 94.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		90.808	
55	0	CORRELATION		91.038	
56	0	CORRELATION		91.583	
64	1e+12	NDD	91.322	91.248	-0.0739
65	1e+12	NDD	91.144	91.08	-0.0643
66	1e+12	NDD	90.4	90.43	0.0307
67	1e+12	NDD	91.647	91.604	-0.0432
68	5e+12	NDD	90.525	90.305	-0.2208
69	5e+12	NDD	90.998	90.891	-0.1062
70	5e+12	NDD	91.133	90.954	-0.1788
71	5e+12	NDD	91.291	91.017	-0.2738
72	1e+13	NDD	90.861	90.472	-0.3884
73	1e+13	NDD	91.061	90.808	-0.2529
74	1e+13	NDD	91.28	91.017	-0.2626
75	1e+13	NDD	91.375	91.143	-0.232

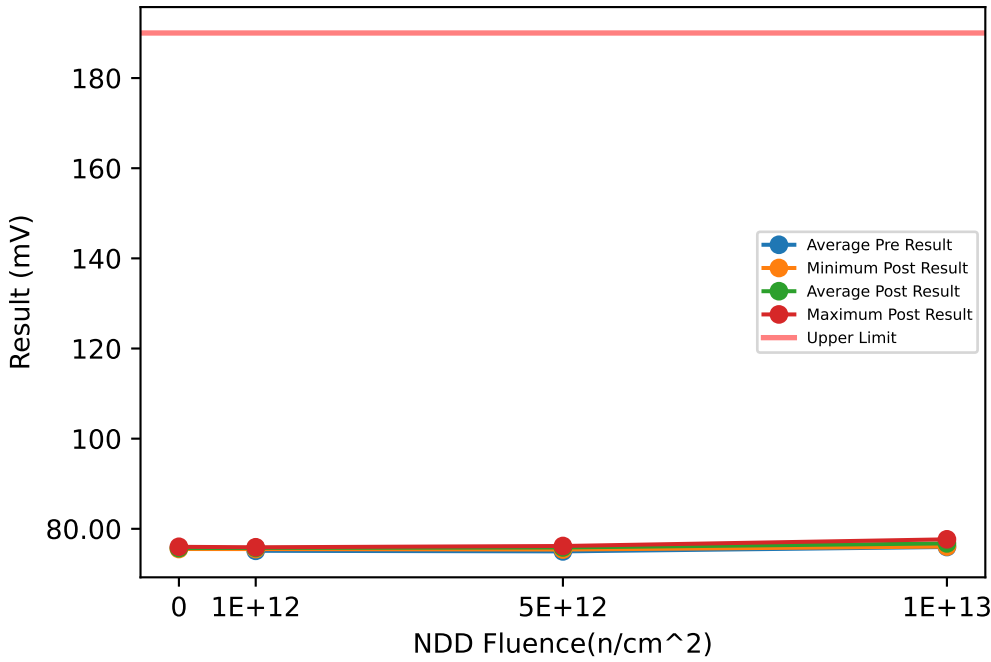
NDD vs Post - Pre Exposure Delta



Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					90.808	91.143	91.583	0.39824				
1e+12	90.4	91.128	91.647	0.52853	90.43	91.091	91.604	0.49143	-0.0739	-0.037675	0.0307	0.047353
5e+12	90.525	90.987	91.291	0.33017	90.305	90.792	91.017	0.32893	-0.2738	-0.1949	-0.1062	0.070765
1e+13	90.861	91.144	91.375	0.23025	90.472	90.86	91.143	0.29319	-0.3884	-0.28398	-0.232	0.070778

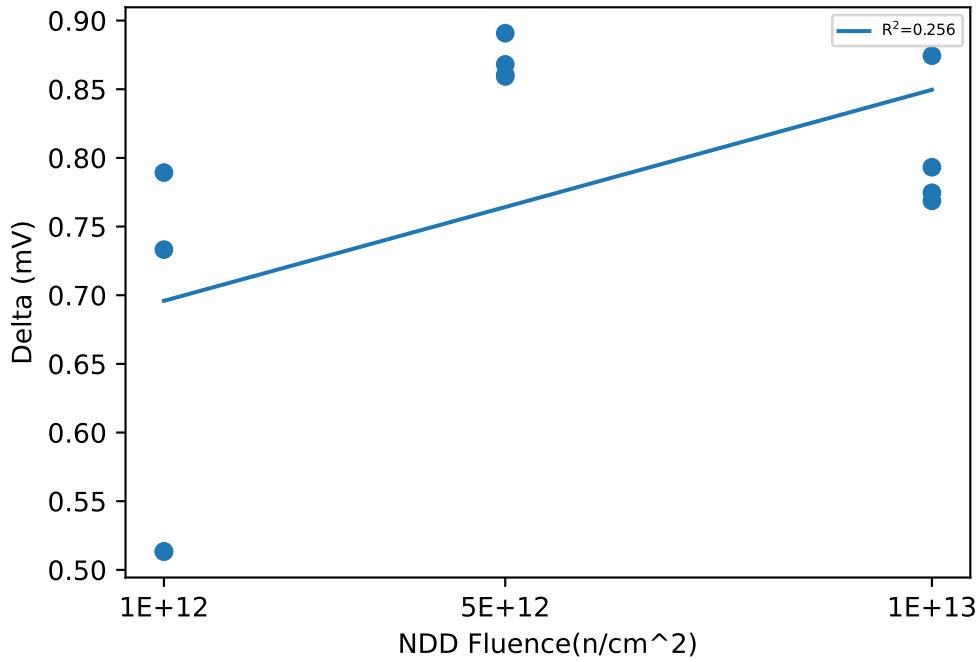
NDD vs Result Stats



Test Results (Upper Limit = 190.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		76.01	
55	0	CORRELATION		75.62	
56	0	CORRELATION		75.517	
64	1e+12	NDD	74.768	75.501	0.7332
65	1e+12	NDD	75.39	75.903	0.5133
66	1e+12	NDD	75.355	75.868	0.5134
67	1e+12	NDD	74.963	75.752	0.7893
68	5e+12	NDD	75.296	76.187	0.8908
69	5e+12	NDD	74.944	75.805	0.8605
70	5e+12	NDD	74.529	75.397	0.8681
71	5e+12	NDD	75.185	76.045	0.8593
72	1e+13	NDD	76.899	77.668	0.7687
73	1e+13	NDD	76.152	76.927	0.7746
74	1e+13	NDD	75.266	76.06	0.7932
75	1e+13	NDD	75.529	76.403	0.8744

NDD vs Post - Pre Exposure Delta

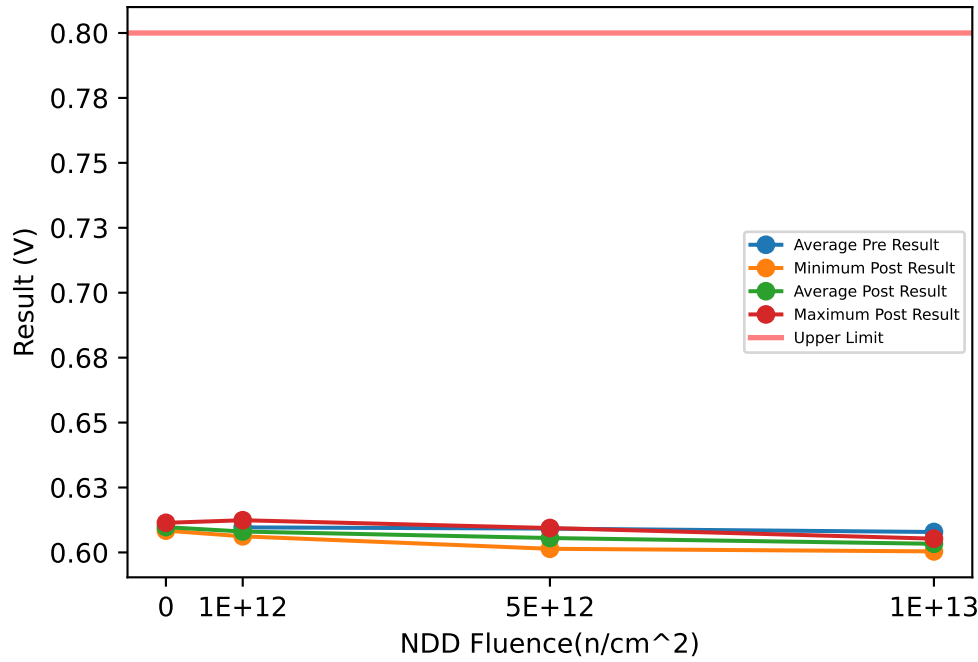


Test Statistics (mV)

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					75.517	75.716	76.01	0.25975				
1e+12	74.768	75.119	75.39	0.30377	75.501	75.756	75.903	0.18198	0.5133	0.6373	0.7893	0.14495
5e+12	74.529	74.989	75.296	0.33975	75.397	75.858	76.187	0.3455	0.8593	0.86968	0.8908	0.014612
1e+13	75.266	75.962	76.899	0.72702	76.06	76.764	77.668	0.69989	0.7687	0.80272	0.8744	0.048911

Device Test: 14.21 VIN|MIN_PG/PG/0.4/////@VIN_MIN_PG

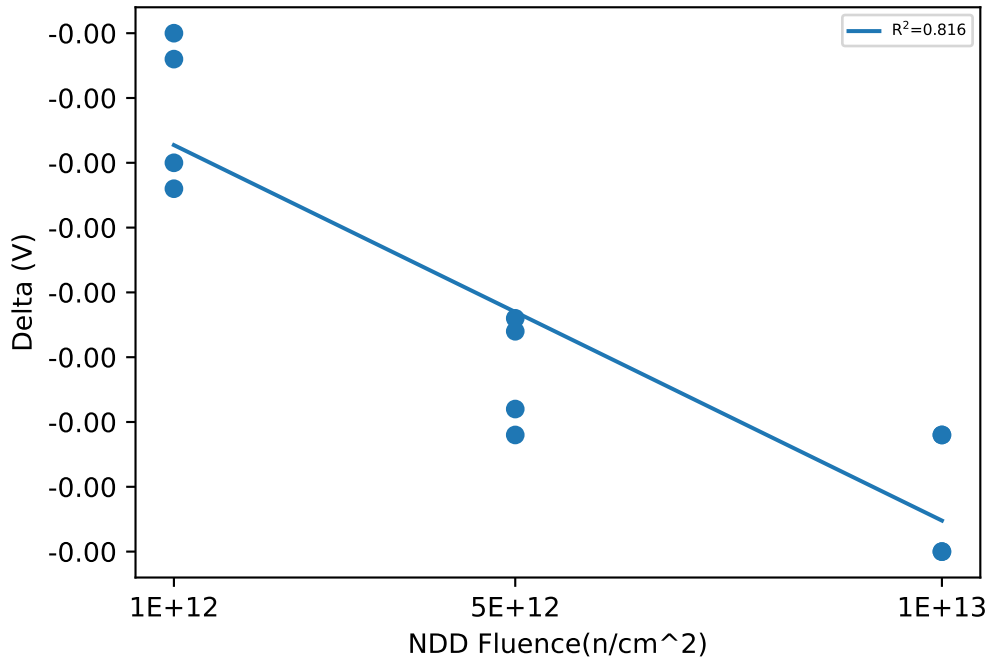
NDD vs Result Stats



Test Results (Upper Limit = 0.8 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.6094	
55	0	CORRELATION		0.6084	
56	0	CORRELATION		0.6114	
64	1e+12	NDD	0.6082	0.6062	-0.002
65	1e+12	NDD	0.6085	0.6073	-0.0012
66	1e+12	NDD	0.6134	0.6124	-0.001
67	1e+12	NDD	0.6085	0.6063	-0.0022
68	5e+12	NDD	0.6103	0.6062	-0.0041
69	5e+12	NDD	0.6126	0.6094	-0.0032
70	5e+12	NDD	0.6053	0.6014	-0.0039
71	5e+12	NDD	0.6085	0.6052	-0.0033
72	1e+13	NDD	0.6054	0.6004	-0.005
73	1e+13	NDD	0.6074	0.6033	-0.0041
74	1e+13	NDD	0.6103	0.6053	-0.005
75	1e+13	NDD	0.6084	0.6043	-0.0041

NDD vs Post - Pre Exposure Delta

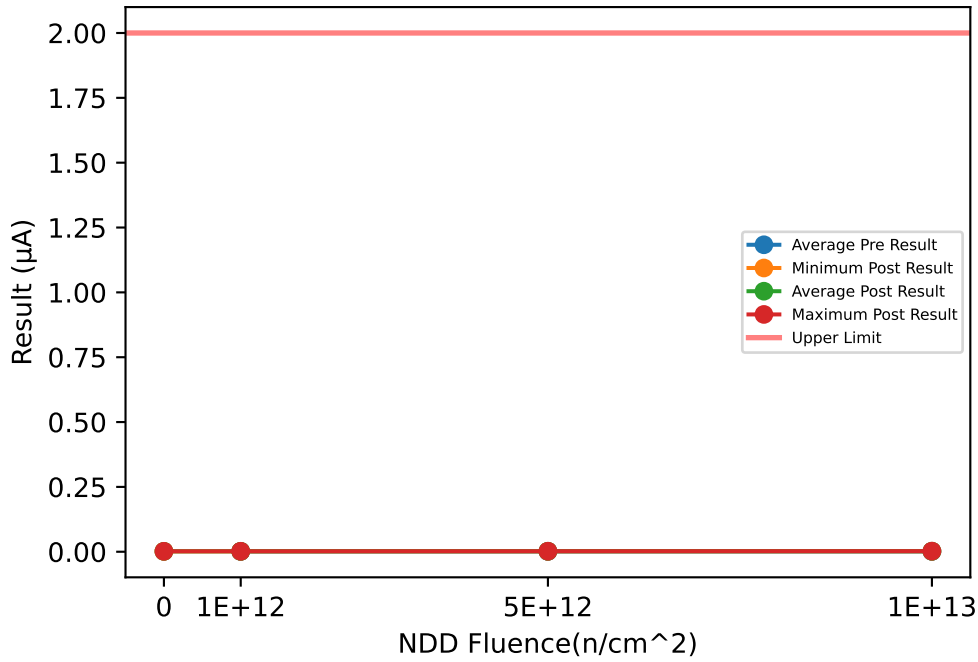


Test Statistics (V)

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					0.6084	0.60973	0.6114	0.0015275				
1e+12	0.6082	0.60965	0.6134	0.002504	0.6062	0.60805	0.6124	0.0029422	-0.0022	-0.0016	-0.001	0.00058878
5e+12	0.6053	0.60918	0.6126	0.0030804	0.6014	0.60555	0.6094	0.003296	-0.0041	-0.003625	-0.0032	0.00044253
1e+13	0.6054	0.60788	0.6103	0.0020419	0.6004	0.60333	0.6053	0.002114	-0.005	-0.00455	-0.0041	0.00051962

Device Test: 14.22 LEAK|LEAKAGE/PG/2.25/0.6//0//@IPG_LKG

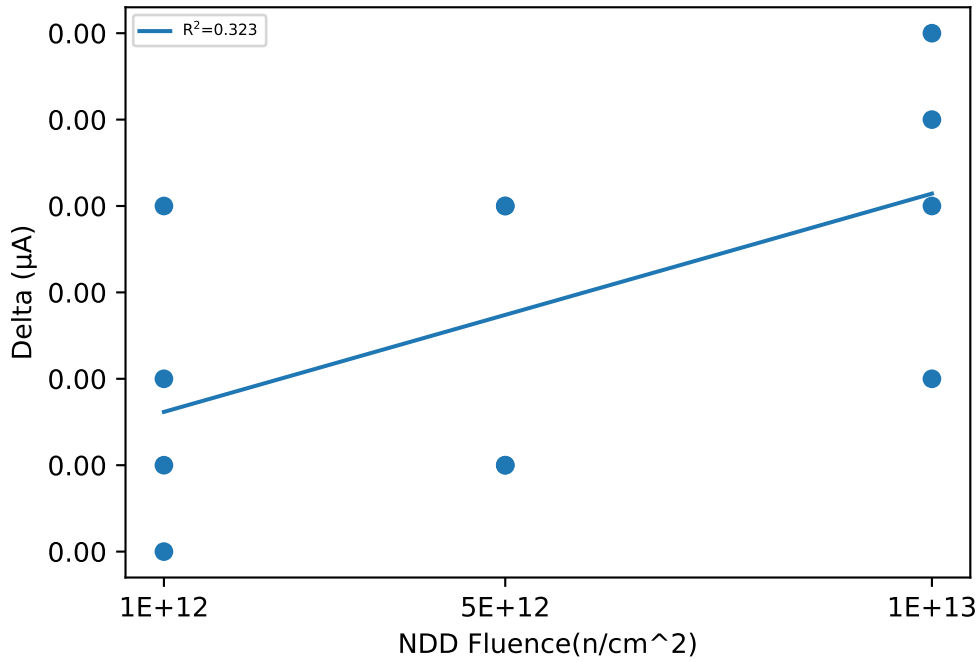
NDD vs Result Stats



Test Results (Upper Limit = 2.0 (µA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0016	
55	0	CORRELATION		0.0016	
56	0	CORRELATION		0.0017	
64	1e+12	NDD	0.0012	0.0018	0.0006
65	1e+12	NDD	0.0015	0.0017	0.0002
66	1e+12	NDD	0.0012	0.0016	0.0004
67	1e+12	NDD	0.0015	0.0018	0.0003
68	5e+12	NDD	0.0014	0.002	0.0006
69	5e+12	NDD	0.0017	0.002	0.0003
70	5e+12	NDD	0.0012	0.0018	0.0006
71	5e+12	NDD	0.0015	0.0018	0.0003
72	1e+13	NDD	0.0016	0.0023	0.0007
73	1e+13	NDD	0.0015	0.0019	0.0004
74	1e+13	NDD	0.0011	0.0019	0.0008
75	1e+13	NDD	0.0013	0.0019	0.0006

NDD vs Post - Pre Exposure Delta

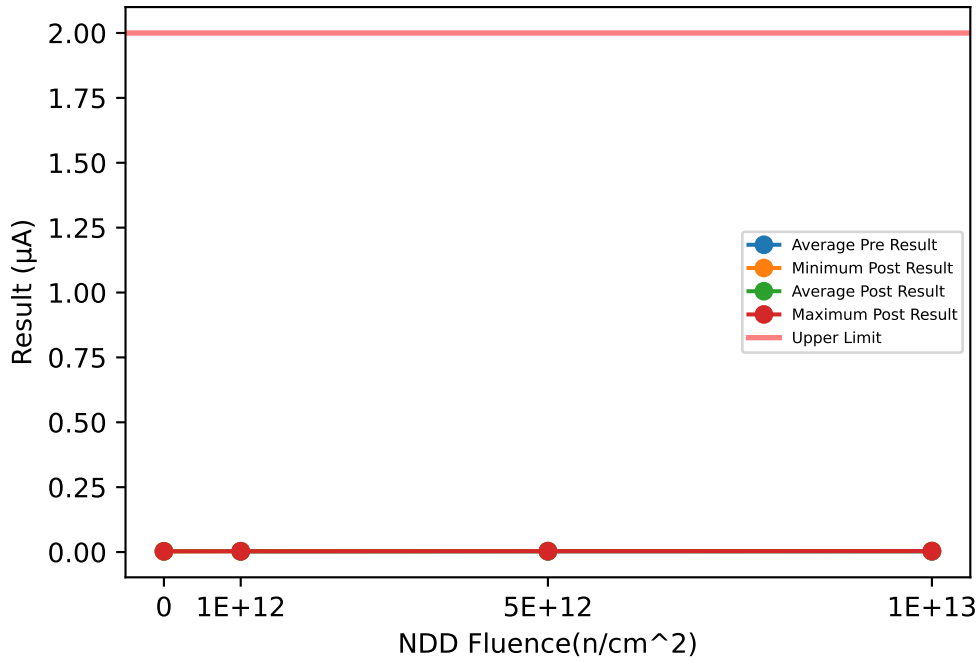


Test Statistics (µA)

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					0.0016	0.0016333	0.0017	5.7735e-05				
1e+12	0.0012	0.00135	0.0015	0.00017321	0.0016	0.001725	0.0018	9.5743e-05	0.0002	0.000375	0.0006	0.00017078
5e+12	0.0012	0.00145	0.0017	0.00020817	0.0018	0.0019	0.002	0.00011547	0.0003	0.00045	0.0006	0.00017321
1e+13	0.0011	0.001375	0.0016	0.00022174	0.0019	0.002	0.0023	0.0002	0.0004	0.000625	0.0008	0.00017078

Device Test: 14.23 LEAK|LEAKAGE/PG/14/0.6//0//@IPG_LKG

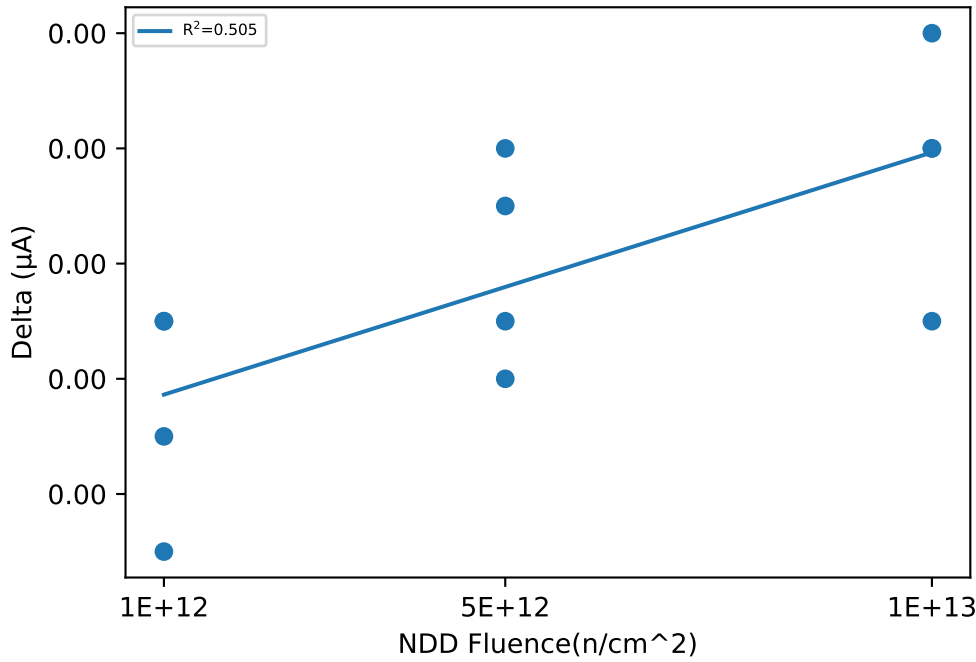
NDD vs Result Stats



Test Results (Upper Limit = 2.0 (µA))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0029	
55	0	CORRELATION		0.0029	
56	0	CORRELATION		0.0029	
64	1e+12	NDD	0.0024	0.0031	0.0007
65	1e+12	NDD	0.0028	0.0031	0.0003
66	1e+12	NDD	0.0024	0.0031	0.0007
67	1e+12	NDD	0.0027	0.0032	0.0005
68	5e+12	NDD	0.0026	0.0036	0.001
69	5e+12	NDD	0.0027	0.0034	0.0007
70	5e+12	NDD	0.0024	0.0033	0.0009
71	5e+12	NDD	0.0028	0.0034	0.0006
72	1e+13	NDD	0.0029	0.0039	0.001
73	1e+13	NDD	0.0027	0.0034	0.0007
74	1e+13	NDD	0.0023	0.0035	0.0012
75	1e+13	NDD	0.0025	0.0035	0.001

NDD vs Post - Pre Exposure Delta

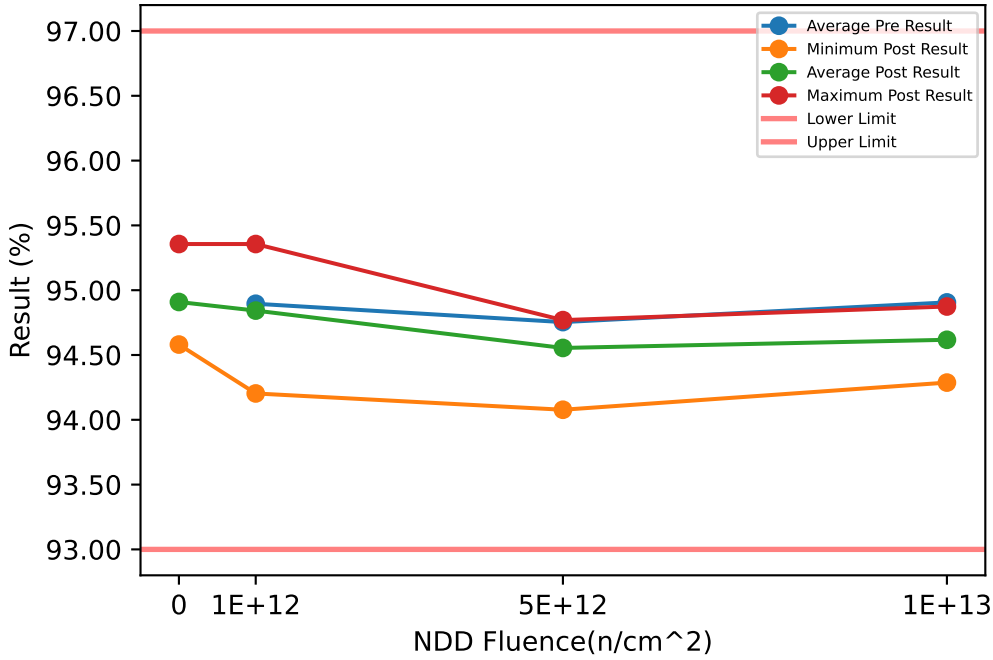


Test Statistics (µA)

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					0.0029	0.0029	0.0029	0				
1e+12	0.0024	0.002575	0.0028	0.00020616	0.0031	0.003125	0.0032	5e-05	0.0003	0.00055	0.0007	0.00019149
5e+12	0.0024	0.002625	0.0028	0.00017078	0.0033	0.003425	0.0036	0.00012583	0.0006	0.0008	0.001	0.00018257
1e+13	0.0023	0.0026	0.0029	0.0002582	0.0034	0.003575	0.0039	0.00022174	0.0007	0.000975	0.0012	0.00020616

Device Test: 14.4 HRESHOLD|RISE/FB/3.3/0.6//10//@VPG_RISE

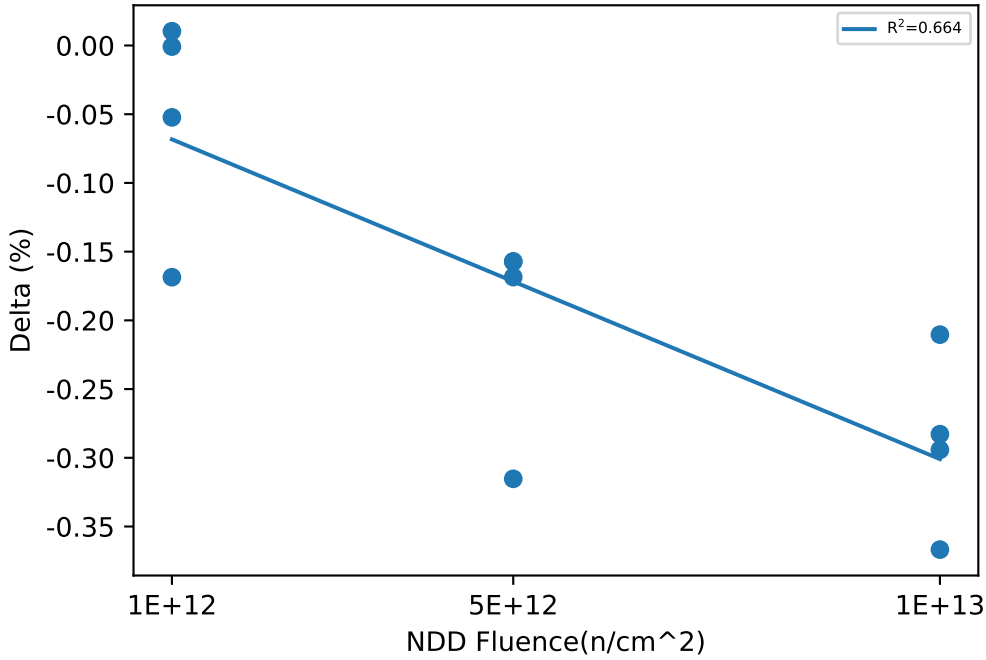
NDD vs Result Stats



Test Results (Lower Limit = 93.0, Upper Limit = 97.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		94.581	
55	0	CORRELATION		94.79	
56	0	CORRELATION		95.356	
64	1e+12	NDD	95.094	95.042	-0.0523
65	1e+12	NDD	94.938	94.769	-0.1686
66	1e+12	NDD	94.193	94.203	0.0104
67	1e+12	NDD	95.357	95.356	-0.0008
68	5e+12	NDD	94.235	94.078	-0.1573
69	5e+12	NDD	94.812	94.644	-0.1685
70	5e+12	NDD	94.884	94.727	-0.1571
71	5e+12	NDD	95.085	94.769	-0.3153
72	1e+13	NDD	94.654	94.287	-0.3668
73	1e+13	NDD	94.812	94.602	-0.2104
74	1e+13	NDD	94.989	94.706	-0.2828
75	1e+13	NDD	95.168	94.874	-0.2942

NDD vs Post - Pre Exposure Delta

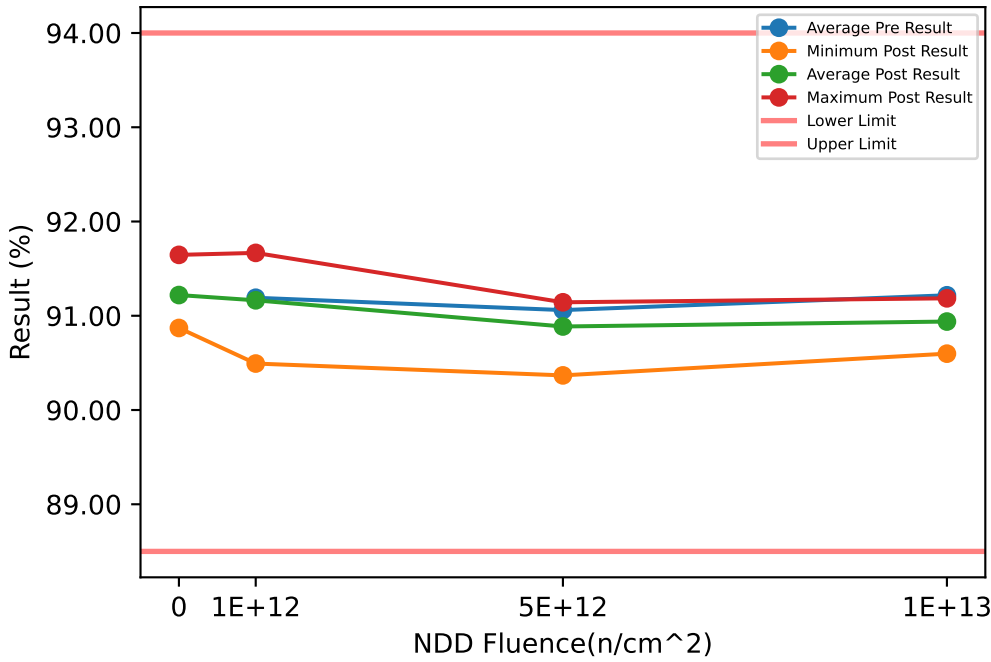


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					94.581	94.909	95.356	0.40122				
1e+12	94.193	94.895	95.357	0.49927	94.203	94.843	95.356	0.48905	-0.1686	-0.052825	0.0104	0.08187
5e+12	94.235	94.754	95.085	0.36477	94.078	94.554	94.769	0.32218	-0.3153	-0.19955	-0.1571	0.07735
1e+13	94.654	94.906	95.168	0.2222	94.287	94.617	94.874	0.24709	-0.3668	-0.28855	-0.2104	0.064019

Device Test: 14.5 HRESHOLD|FALL/FB/3.3/0.6//10//@VPG_FALL

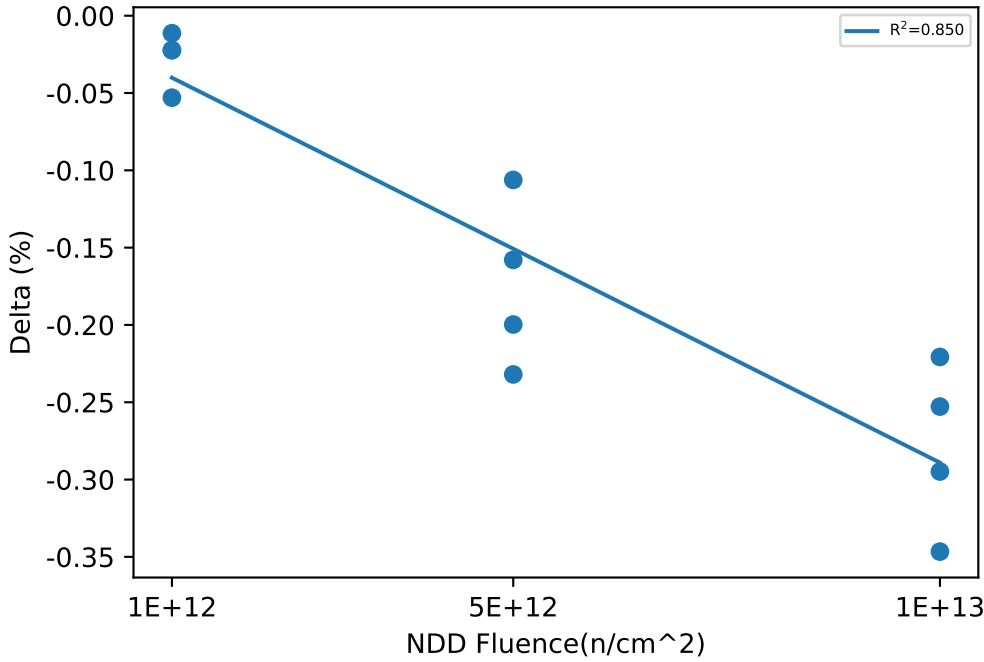
NDD vs Result Stats



Test Results (Lower Limit = 88.5, Upper Limit = 94.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		90.87	
55	0	CORRELATION		91.143	
56	0	CORRELATION		91.646	
64	1e+12	NDD	91.364	91.311	-0.053
65	1e+12	NDD	91.207	91.185	-0.0223
66	1e+12	NDD	90.504	90.493	-0.0113
67	1e+12	NDD	91.689	91.667	-0.0222
68	5e+12	NDD	90.525	90.367	-0.1579
69	5e+12	NDD	91.123	91.017	-0.1062
70	5e+12	NDD	91.217	91.017	-0.1997
71	5e+12	NDD	91.375	91.143	-0.232
72	1e+13	NDD	90.945	90.598	-0.3466
73	1e+13	NDD	91.186	90.891	-0.2948
74	1e+13	NDD	91.301	91.08	-0.2207
75	1e+13	NDD	91.438	91.185	-0.2528

NDD vs Post - Pre Exposure Delta

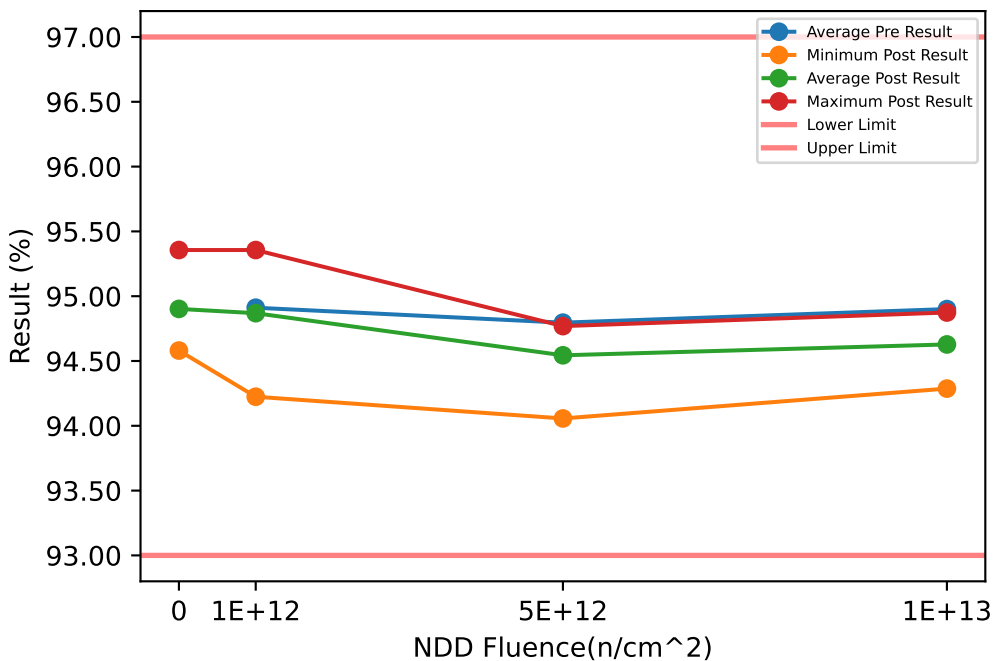


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					90.87	91.22	91.646	0.39347				
1e+12	90.504	91.191	91.689	0.49989	90.493	91.164	91.667	0.49161	-0.053	-0.0272	-0.0113	0.017958
5e+12	90.525	91.06	91.375	0.37135	90.367	90.886	91.143	0.35089	-0.232	-0.17395	-0.1062	0.054408
1e+13	90.945	91.217	91.438	0.2089	90.598	90.939	91.185	0.25753	-0.3466	-0.27873	-0.2207	0.054481

Device Test: 14.7 HRESHOLD|RISE/FB/5/0.6//10//@VPG_RISE

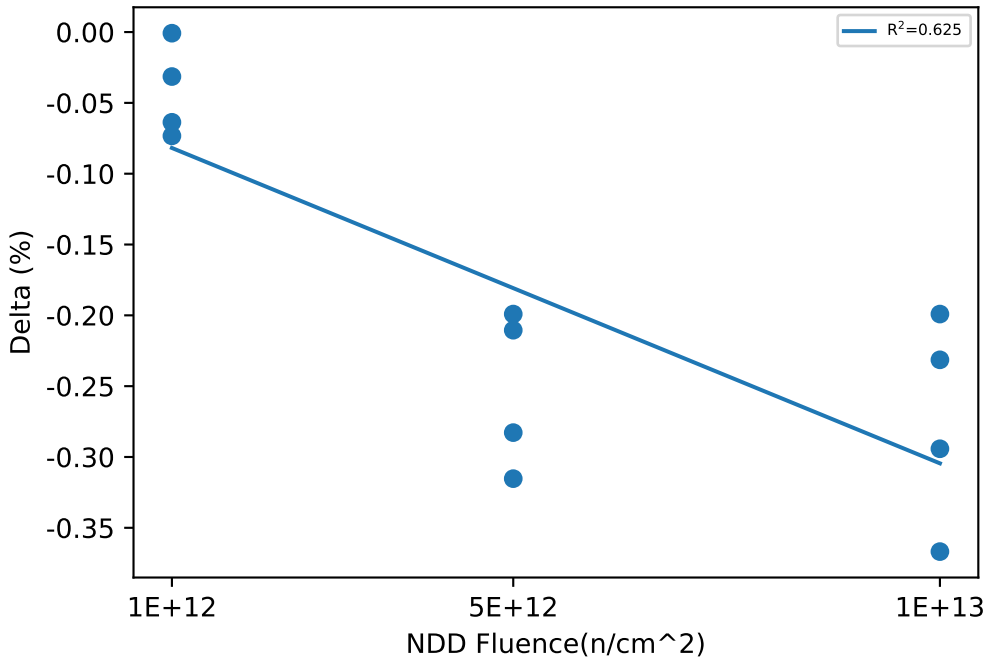
NDD vs Result Stats



Test Results (Lower Limit = 93.0, Upper Limit = 97.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		94.581	
55	0	CORRELATION		94.769	
56	0	CORRELATION		95.356	
64	1e+12	NDD	95.115	95.042	-0.0733
65	1e+12	NDD	94.917	94.853	-0.0637
66	1e+12	NDD	94.256	94.224	-0.0314
67	1e+12	NDD	95.357	95.356	-0.0008
68	5e+12	NDD	94.256	94.057	-0.1991
69	5e+12	NDD	94.854	94.644	-0.2105
70	5e+12	NDD	94.989	94.706	-0.2828
71	5e+12	NDD	95.085	94.769	-0.3153
72	1e+13	NDD	94.654	94.287	-0.3668
73	1e+13	NDD	94.812	94.581	-0.2314
74	1e+13	NDD	94.968	94.769	-0.1991
75	1e+13	NDD	95.168	94.874	-0.2942

NDD vs Post - Pre Exposure Delta

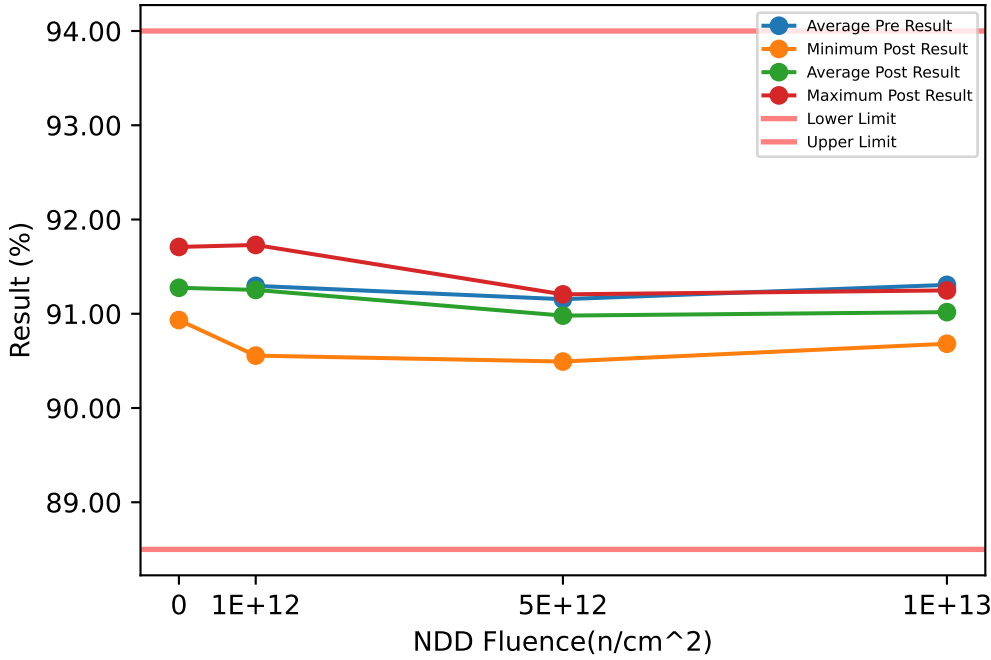


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					94.581	94.902	95.356	0.40449				
1e+12	94.256	94.911	95.357	0.47258	94.224	94.869	95.356	0.47717	-0.0733	-0.0423	-0.0008	0.032965
5e+12	94.256	94.796	95.085	0.37231	94.057	94.544	94.769	0.32891	-0.3153	-0.25192	-0.1991	0.056203
1e+13	94.654	94.901	95.168	0.21982	94.287	94.628	94.874	0.25753	-0.3668	-0.27287	-0.1991	0.074026

Device Test: 14.8 HRESHOLD|FALL/FB/5/0.6//10//@VPG_FALL

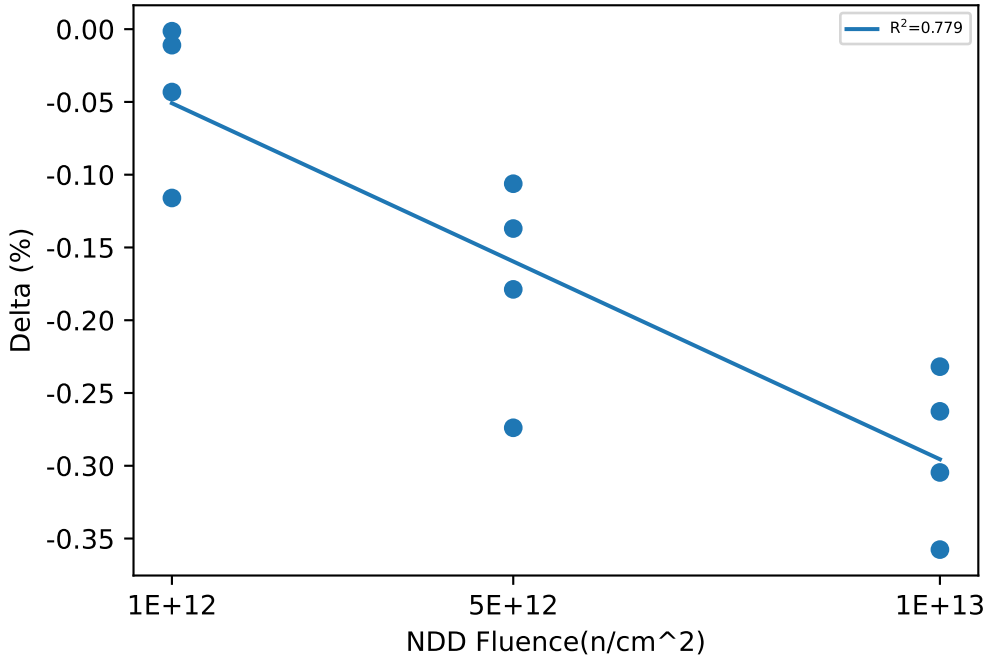
NDD vs Result Stats



Test Results (Lower Limit = 88.5, Upper Limit = 94.0 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		90.933	
55	0	CORRELATION		91.185	
56	0	CORRELATION		91.709	
64	1e+12	NDD	91.468	91.457	-0.011
65	1e+12	NDD	91.27	91.269	-0.0014
66	1e+12	NDD	90.672	90.556	-0.116
67	1e+12	NDD	91.773	91.73	-0.0432
68	5e+12	NDD	90.63	90.493	-0.137
69	5e+12	NDD	91.186	91.08	-0.1062
70	5e+12	NDD	91.322	91.143	-0.1788
71	5e+12	NDD	91.48	91.206	-0.2739
72	1e+13	NDD	90.986	90.682	-0.3046
73	1e+13	NDD	91.249	91.017	-0.2319
74	1e+13	NDD	91.385	91.122	-0.2626
75	1e+13	NDD	91.605	91.248	-0.3576

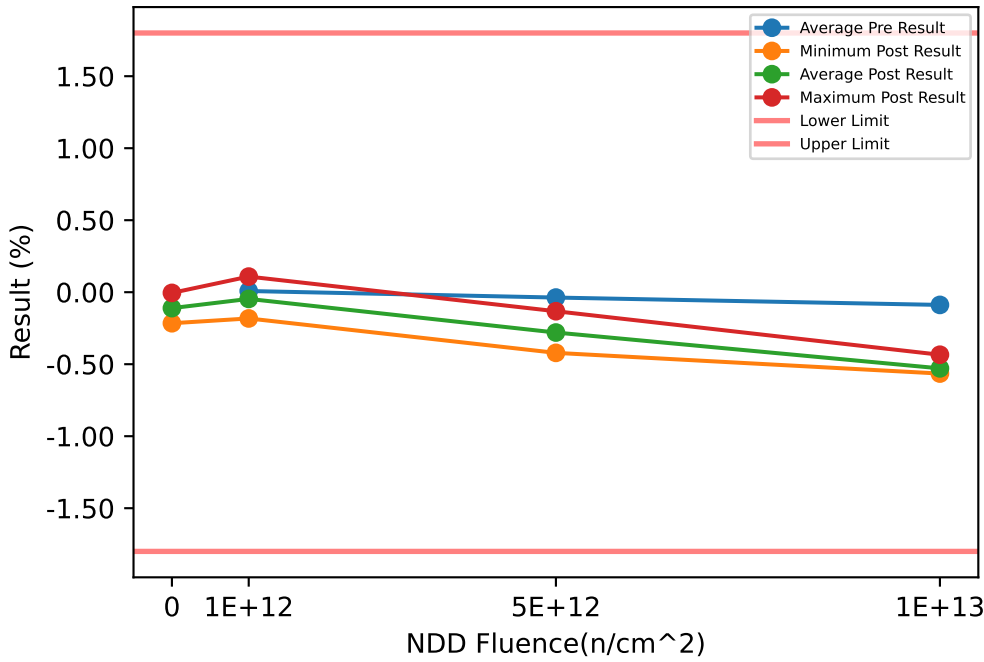
NDD vs Post - Pre Exposure Delta



Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					90.933	91.276	91.709	0.39569				
1e+12	90.672	91.296	91.773	0.46454	90.556	91.253	91.73	0.50175	-0.116	-0.0429	-0.0014	0.051909
5e+12	90.63	91.154	91.48	0.36955	90.493	90.98	91.206	0.32893	-0.2739	-0.17398	-0.1062	0.072959
1e+13	90.986	91.306	91.605	0.25897	90.682	91.017	91.248	0.24266	-0.3576	-0.28918	-0.2319	0.054487

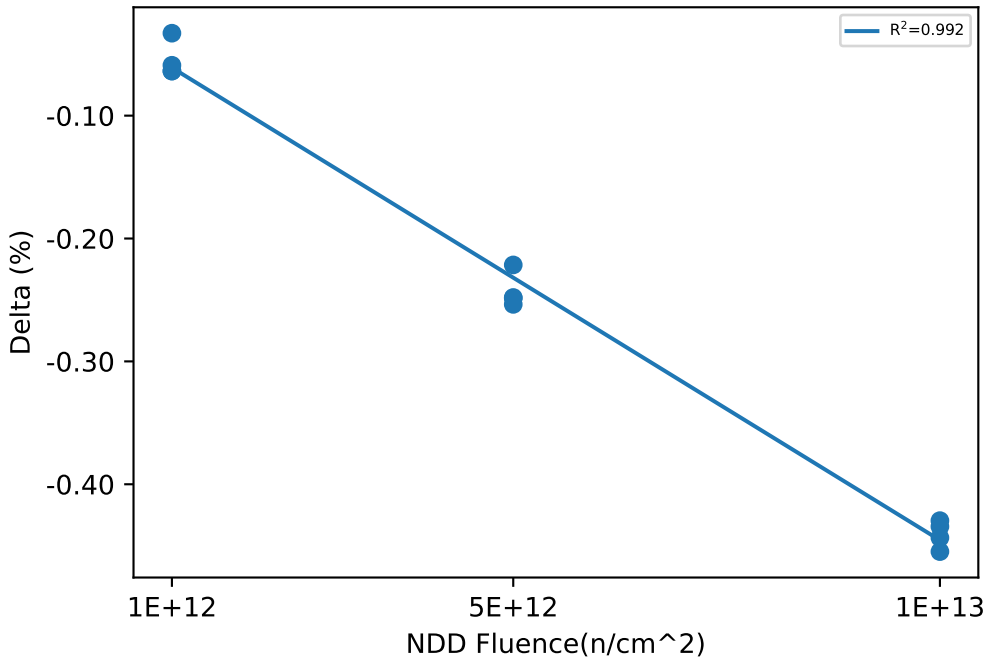
NDD vs Result Stats



Test Results (Lower Limit = -1.8, Upper Limit = 1.8 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.1114	
55	0	CORRELATION		-0.2156	
56	0	CORRELATION		-0.0049	
64	1e+12	NDD	0.1674	0.1084	-0.059
65	1e+12	NDD	-0.1186	-0.1823	-0.0637
66	1e+12	NDD	-0.0924	-0.1253	-0.0329
67	1e+12	NDD	0.0765	0.0128	-0.0637
68	5e+12	NDD	-0.1677	-0.4213	-0.2536
69	5e+12	NDD	-0.0752	-0.3238	-0.2486
70	5e+12	NDD	0.0048	-0.2432	-0.248
71	5e+12	NDD	0.0893	-0.1322	-0.2215
72	1e+13	NDD	-0.0047	-0.4343	-0.4296
73	1e+13	NDD	-0.1306	-0.565	-0.4344
74	1e+13	NDD	-0.1102	-0.565	-0.4548
75	1e+13	NDD	-0.1076	-0.5511	-0.4435

NDD vs Post - Pre Exposure Delta

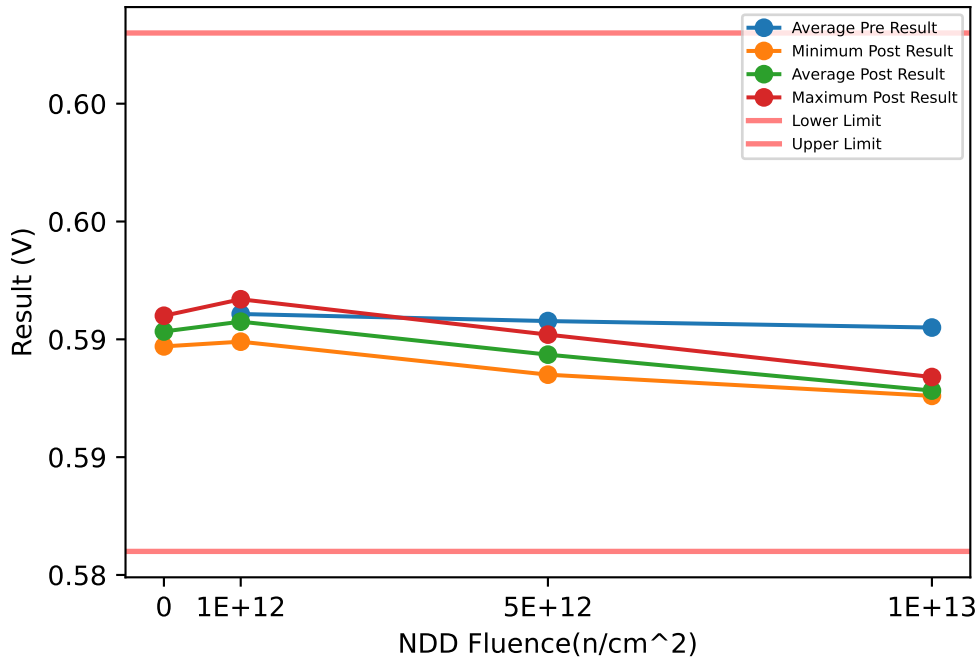


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.2156	-0.11063	-0.0049	0.10535				
1e+12	-0.1186	0.008225	0.1674	0.13688	-0.1823	-0.0466	0.1084	0.13186	-0.0637	-0.054825	-0.0329	0.014784
5e+12	-0.1677	-0.0372	0.0893	0.10991	-0.4213	-0.28013	-0.1322	0.12259	-0.2536	-0.24293	-0.2215	0.014502
1e+13	-0.1306	-0.088275	-0.0047	0.056658	-0.565	-0.52885	-0.4343	0.063373	-0.4548	-0.44057	-0.4296	0.011098

Device Test: 15.12 FB|VFB/FB/2.25/0.6//1000//@VFB_VIN_SUB_3V

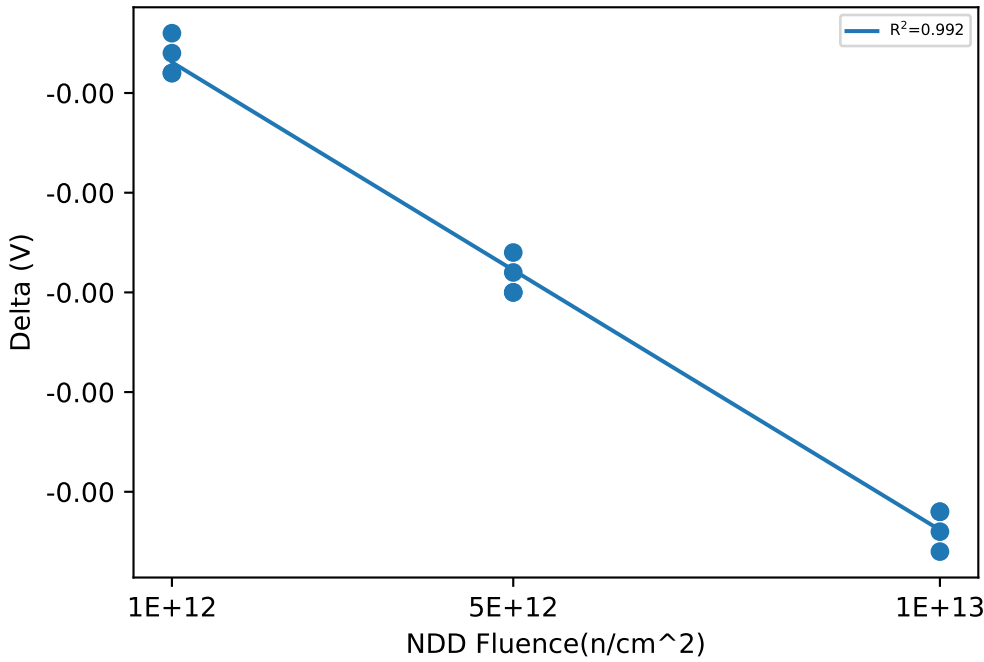
NDD vs Result Stats



Test Results (Lower Limit = 0.586, Upper Limit = 0.608 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5953	
55	0	CORRELATION		0.5947	
56	0	CORRELATION		0.596	
64	1e+12	NDD	0.597	0.5967	-0.0003
65	1e+12	NDD	0.5953	0.5949	-0.0004
66	1e+12	NDD	0.5955	0.5953	-0.0002
67	1e+12	NDD	0.5965	0.5961	-0.0004
68	5e+12	NDD	0.595	0.5935	-0.0015
69	5e+12	NDD	0.5956	0.5941	-0.0015
70	5e+12	NDD	0.596	0.5946	-0.0014
71	5e+12	NDD	0.5965	0.5952	-0.0013
72	1e+13	NDD	0.596	0.5934	-0.0026
73	1e+13	NDD	0.5952	0.5926	-0.0026
74	1e+13	NDD	0.5954	0.5926	-0.0028
75	1e+13	NDD	0.5954	0.5927	-0.0027

NDD vs Post - Pre Exposure Delta

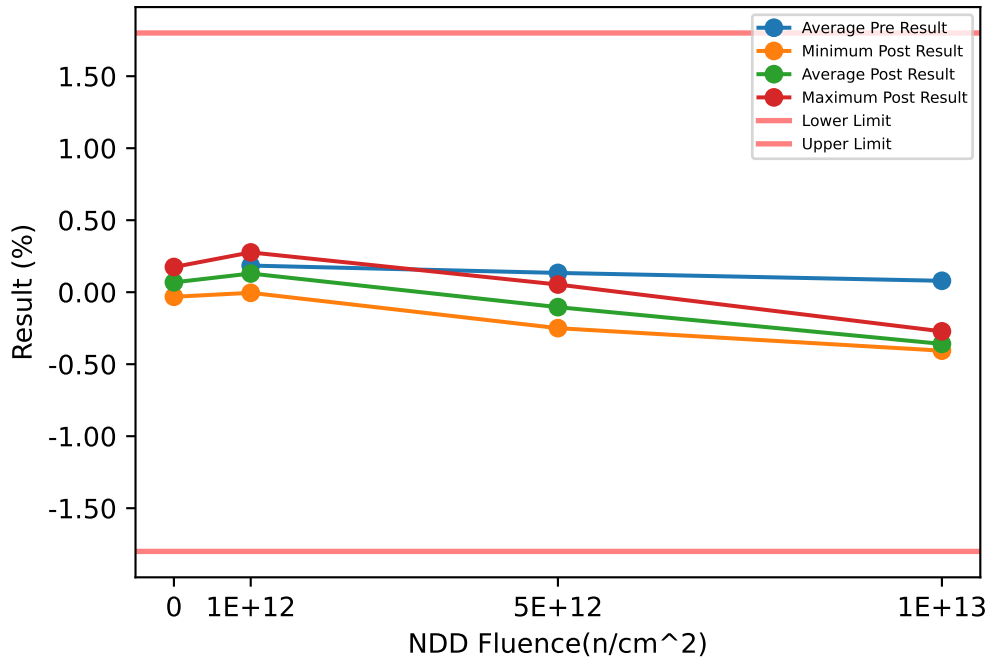


Test Statistics (V)

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					0.5947	0.59533	0.596	0.00065064				
1e+12	0.5953	0.59608	0.597	0.00080984	0.5949	0.59575	0.5967	0.00080623	-0.0004	-0.000325	-0.0002	9.5743e-05
5e+12	0.595	0.59577	0.5965	0.00063443	0.5935	0.59435	0.5952	0.00072342	-0.0015	-0.001425	-0.0013	9.5743e-05
1e+13	0.5952	0.5955	0.596	0.00034641	0.5926	0.59283	0.5934	0.00038622	-0.0028	-0.002675	-0.0026	9.5743e-05

Device Test: 15.16 IN|ACCURACY/OUT/2.5/2.25//10//@OUT_ACC_VIN_SUB_3V

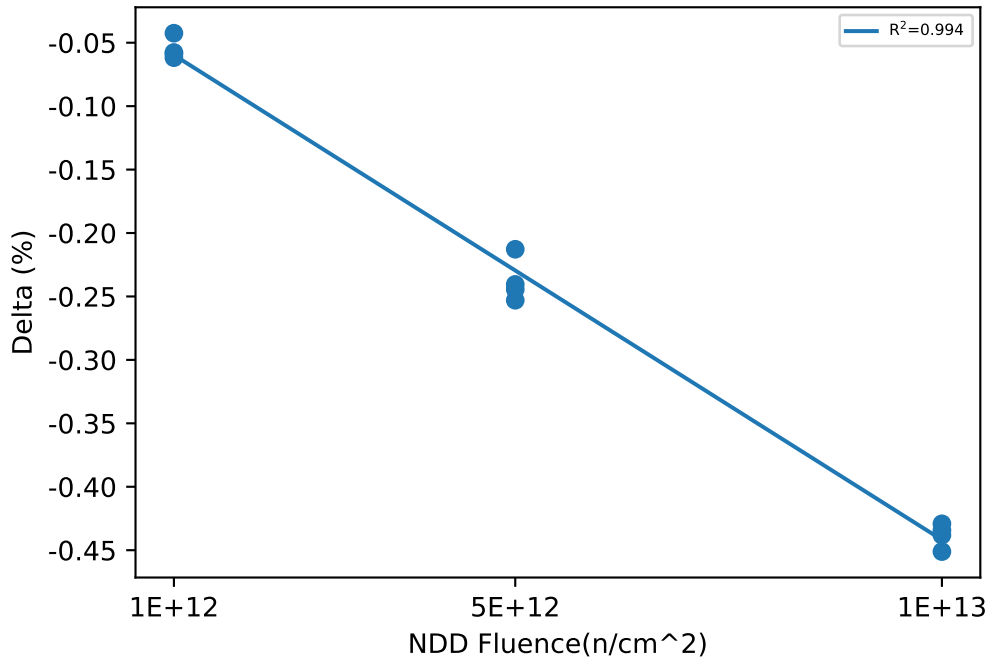
NDD vs Result Stats



Test Results (Lower Limit = -1.8, Upper Limit = 1.8 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0617	
55	0	CORRELATION		-0.0318	
56	0	CORRELATION		0.175	
64	1e+12	NDD	0.3351	0.2764	-0.0587
65	1e+12	NDD	0.0575	-0.0043	-0.0618
66	1e+12	NDD	0.0964	0.0539	-0.0425
67	1e+12	NDD	0.2506	0.1929	-0.0577
68	5e+12	NDD	0.0033	-0.2497	-0.253
69	5e+12	NDD	0.0953	-0.1492	-0.2445
70	5e+12	NDD	0.1711	-0.0694	-0.2405
71	5e+12	NDD	0.266	0.0532	-0.2128
72	1e+13	NDD	0.1573	-0.2719	-0.4292
73	1e+13	NDD	0.0282	-0.4061	-0.4343
74	1e+13	NDD	0.0626	-0.3885	-0.4511
75	1e+13	NDD	0.0684	-0.3697	-0.4381

NDD vs Post - Pre Exposure Delta

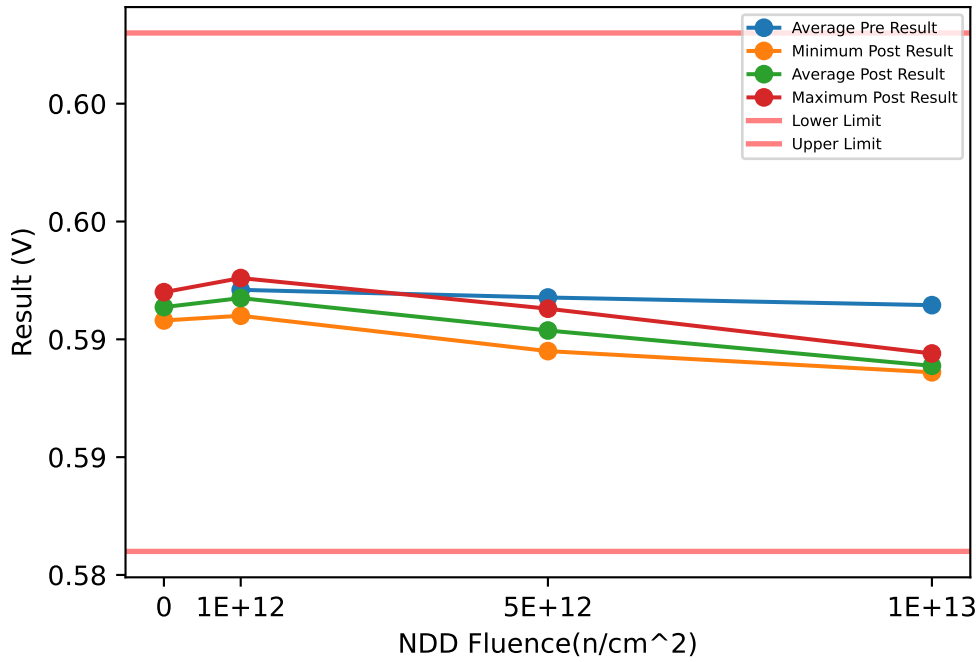


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.0318	0.0683	0.175	0.10356				
1e+12	0.0575	0.1849	0.3351	0.13031	-0.0043	0.12972	0.2764	0.12808	-0.0618	-0.055175	-0.0425	0.0086284
5e+12	0.0033	0.13393	0.266	0.11163	-0.2497	-0.10378	0.0532	0.12804	-0.253	-0.2377	-0.2128	0.017399
1e+13	0.0282	0.079125	0.1573	0.055054	-0.4061	-0.35905	-0.2719	0.059971	-0.4511	-0.43817	-0.4292	0.0093564

Device Test: 15.17 FB|VFB/FB/2.5/2.25//10//@VFB_VIN_SUB_3V

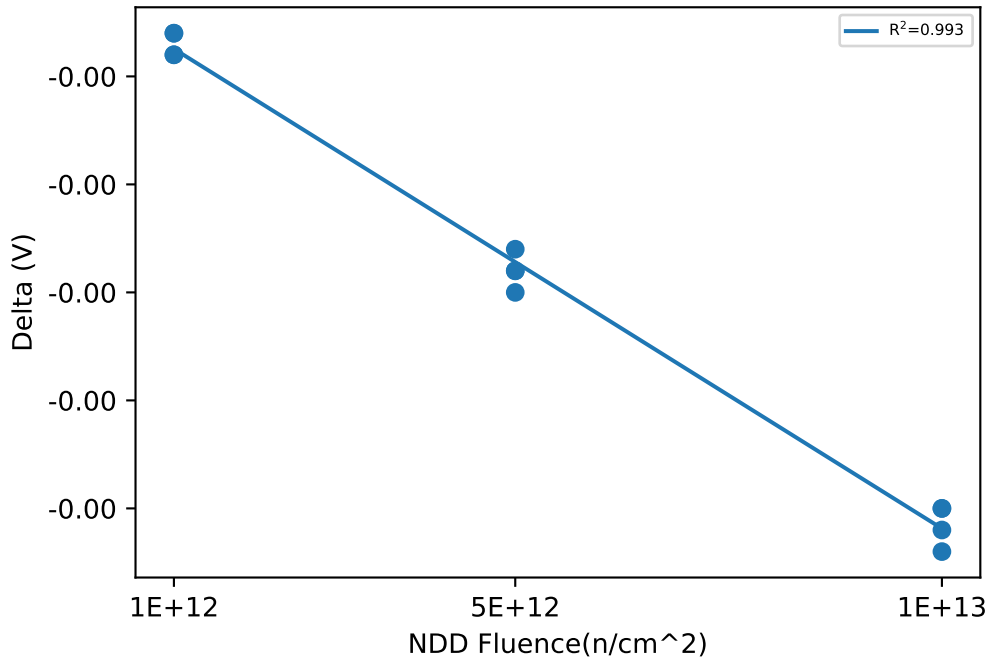
NDD vs Result Stats



Test Results (Lower Limit = 0.586, Upper Limit = 0.608 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5963	
55	0	CORRELATION		0.5958	
56	0	CORRELATION		0.597	
64	1e+12	NDD	0.598	0.5976	-0.0004
65	1e+12	NDD	0.5963	0.596	-0.0003
66	1e+12	NDD	0.5966	0.5963	-0.0003
67	1e+12	NDD	0.5975	0.5971	-0.0004
68	5e+12	NDD	0.596	0.5945	-0.0015
69	5e+12	NDD	0.5965	0.5951	-0.0014
70	5e+12	NDD	0.597	0.5956	-0.0014
71	5e+12	NDD	0.5976	0.5963	-0.0013
72	1e+13	NDD	0.5969	0.5944	-0.0025
73	1e+13	NDD	0.5961	0.5936	-0.0025
74	1e+13	NDD	0.5964	0.5937	-0.0027
75	1e+13	NDD	0.5964	0.5938	-0.0026

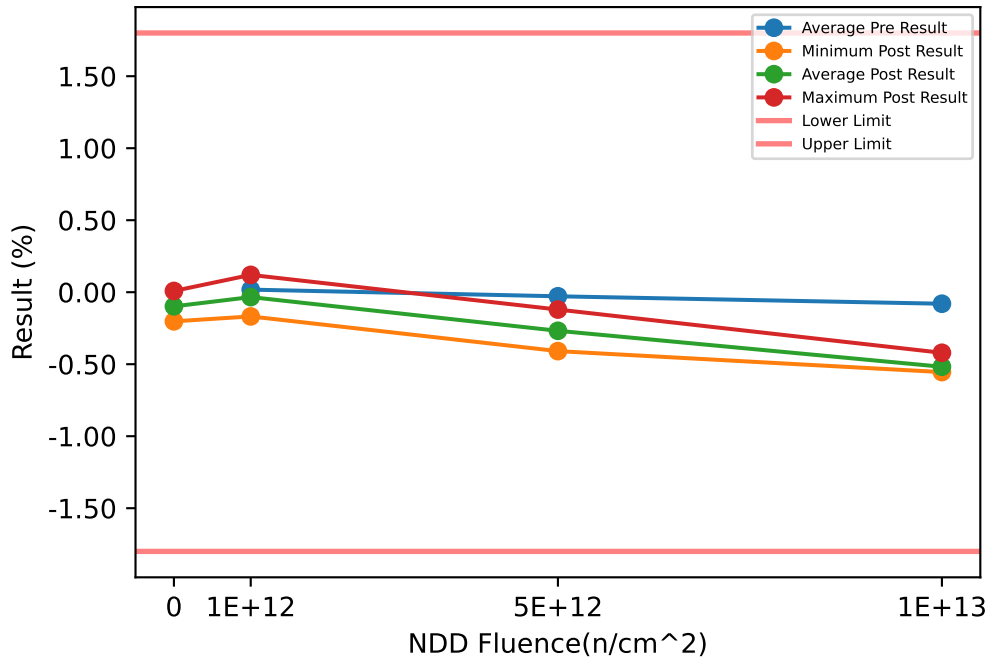
NDD vs Post - Pre Exposure Delta



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					0.5958	0.59637	0.597	0.00060277				
1e+12	0.5963	0.5971	0.598	0.0007874	0.596	0.59675	0.5976	0.00073258	-0.0004	-0.00035	-0.0003	5.7735e-05
5e+12	0.596	0.59678	0.5976	0.00068496	0.5945	0.59537	0.5963	0.00076322	-0.0015	-0.0014	-0.0013	8.165e-05
1e+13	0.5961	0.59645	0.5969	0.00033166	0.5936	0.59388	0.5944	0.0003594	-0.0027	-0.002575	-0.0025	9.5743e-05

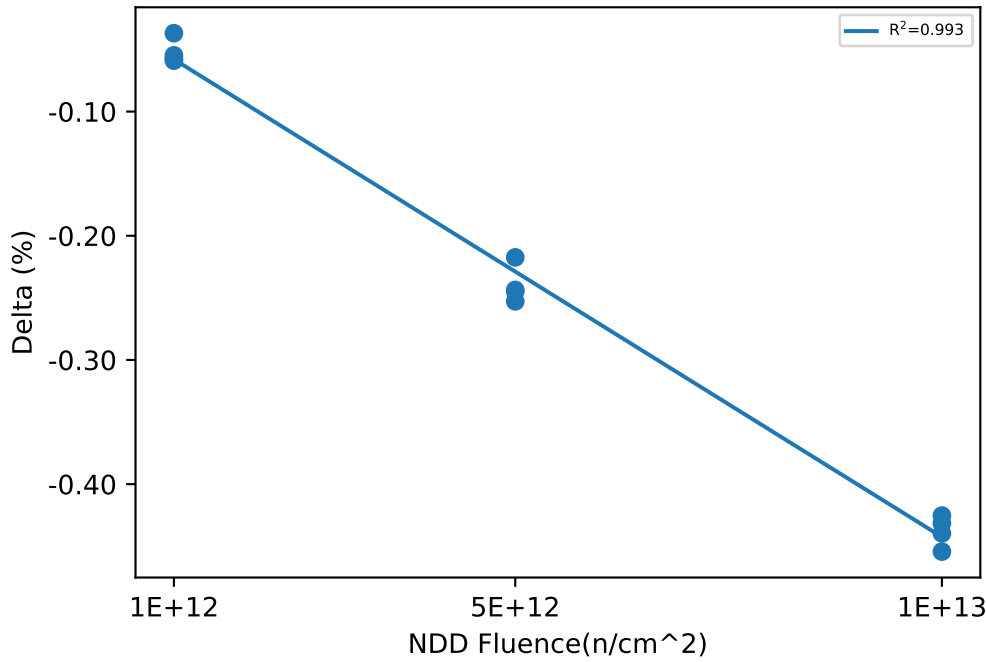
NDD vs Result Stats



Test Results (Lower Limit = -1.8, Upper Limit = 1.8 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.1011	
55	0	CORRELATION		-0.2024	
56	0	CORRELATION		0.0086	
64	1e+12	NDD	0.1749	0.1202	-0.0547
65	1e+12	NDD	-0.1093	-0.1683	-0.059
66	1e+12	NDD	-0.0768	-0.1137	-0.0369
67	1e+12	NDD	0.0827	0.0255	-0.0572
68	5e+12	NDD	-0.1564	-0.4092	-0.2528
69	5e+12	NDD	-0.0661	-0.3109	-0.2448
70	5e+12	NDD	0.0119	-0.2317	-0.2436
71	5e+12	NDD	0.0969	-0.1205	-0.2174
72	1e+13	NDD	0.0046	-0.4207	-0.4253
73	1e+13	NDD	-0.1234	-0.5549	-0.4315
74	1e+13	NDD	-0.1001	-0.5544	-0.4543
75	1e+13	NDD	-0.1014	-0.541	-0.4396

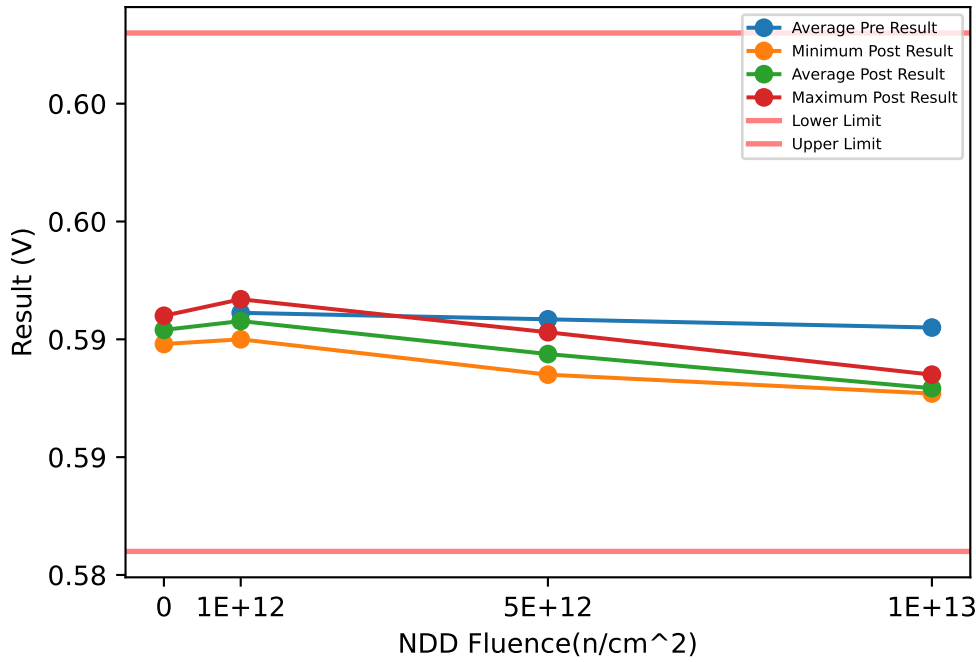
NDD vs Post - Pre Exposure Delta



Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.2024	-0.0983	0.0086	0.10553				
1e+12	-0.1093	0.017875	0.1749	0.13416	-0.1683	-0.034075	0.1202	0.13128	-0.059	-0.05195	-0.0369	0.010187
5e+12	-0.1564	-0.028425	0.0969	0.10821	-0.4092	-0.26808	-0.1205	0.12227	-0.2528	-0.23965	-0.2174	0.015385
1e+13	-0.1234	-0.080075	0.0046	0.057453	-0.5549	-0.51775	-0.4207	0.06502	-0.4543	-0.43768	-0.4253	0.012535

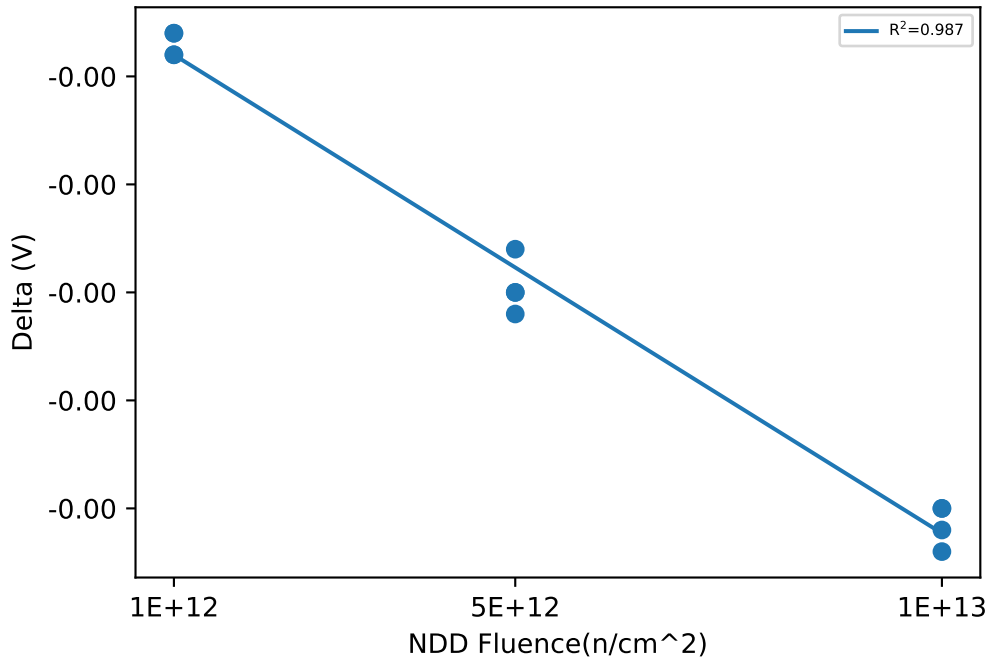
NDD vs Result Stats



Test Results (Lower Limit = 0.586, Upper Limit = 0.608 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5954	
55	0	CORRELATION		0.5948	
56	0	CORRELATION		0.596	
64	1e+12	NDD	0.597	0.5967	-0.0003
65	1e+12	NDD	0.5954	0.595	-0.0004
66	1e+12	NDD	0.5956	0.5953	-0.0003
67	1e+12	NDD	0.5965	0.5961	-0.0004
68	5e+12	NDD	0.5951	0.5935	-0.0016
69	5e+12	NDD	0.5956	0.5941	-0.0015
70	5e+12	NDD	0.5961	0.5946	-0.0015
71	5e+12	NDD	0.5966	0.5953	-0.0013
72	1e+13	NDD	0.596	0.5935	-0.0025
73	1e+13	NDD	0.5952	0.5927	-0.0025
74	1e+13	NDD	0.5954	0.5927	-0.0027
75	1e+13	NDD	0.5954	0.5928	-0.0026

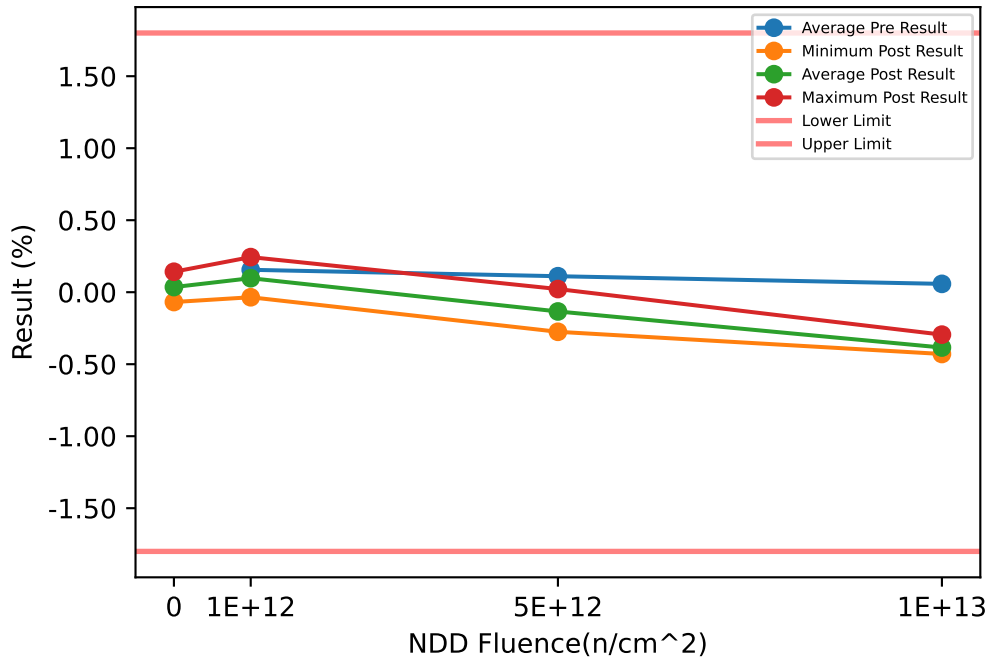
NDD vs Post - Pre Exposure Delta



Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					0.5948	0.5954	0.596	0.0006				
1e+12	0.5954	0.59613	0.597	0.00075443	0.595	0.59577	0.5967	0.0007719	-0.0004	-0.00035	-0.0003	5.7735e-05
5e+12	0.5951	0.59585	0.5966	0.0006455	0.5935	0.59437	0.5953	0.00076322	-0.0016	-0.001475	-0.0013	0.00012583
1e+13	0.5952	0.5955	0.596	0.00034641	0.5927	0.59293	0.5935	0.00038622	-0.0027	-0.002575	-0.0025	9.5743e-05

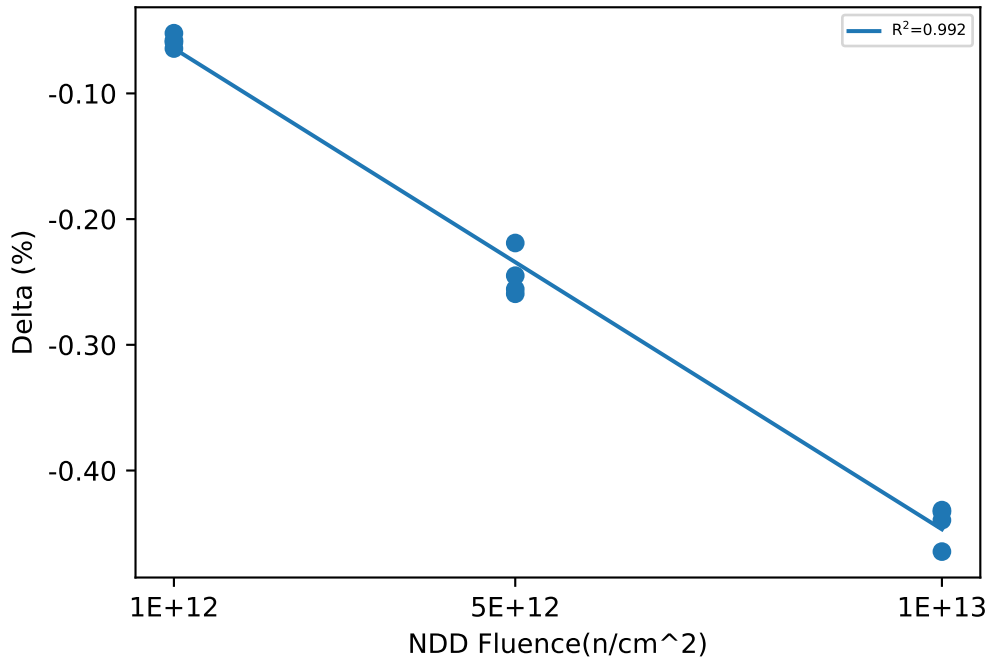
NDD vs Result Stats



Test Results (Lower Limit = -1.8, Upper Limit = 1.8 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0331	
55	0	CORRELATION		-0.0683	
56	0	CORRELATION		0.142	
64	1e+12	NDD	0.308	0.2437	-0.0643
65	1e+12	NDD	0.0243	-0.0351	-0.0594
66	1e+12	NDD	0.0727	0.0206	-0.0521
67	1e+12	NDD	0.2171	0.1593	-0.0578
68	5e+12	NDD	-0.0156	-0.275	-0.2594
69	5e+12	NDD	0.0657	-0.1793	-0.245
70	5e+12	NDD	0.1531	-0.1026	-0.2557
71	5e+12	NDD	0.2409	0.0219	-0.219
72	1e+13	NDD	0.1382	-0.2947	-0.4329
73	1e+13	NDD	0.0024	-0.4291	-0.4315
74	1e+13	NDD	0.049	-0.4155	-0.4645
75	1e+13	NDD	0.0417	-0.3978	-0.4395

NDD vs Post - Pre Exposure Delta

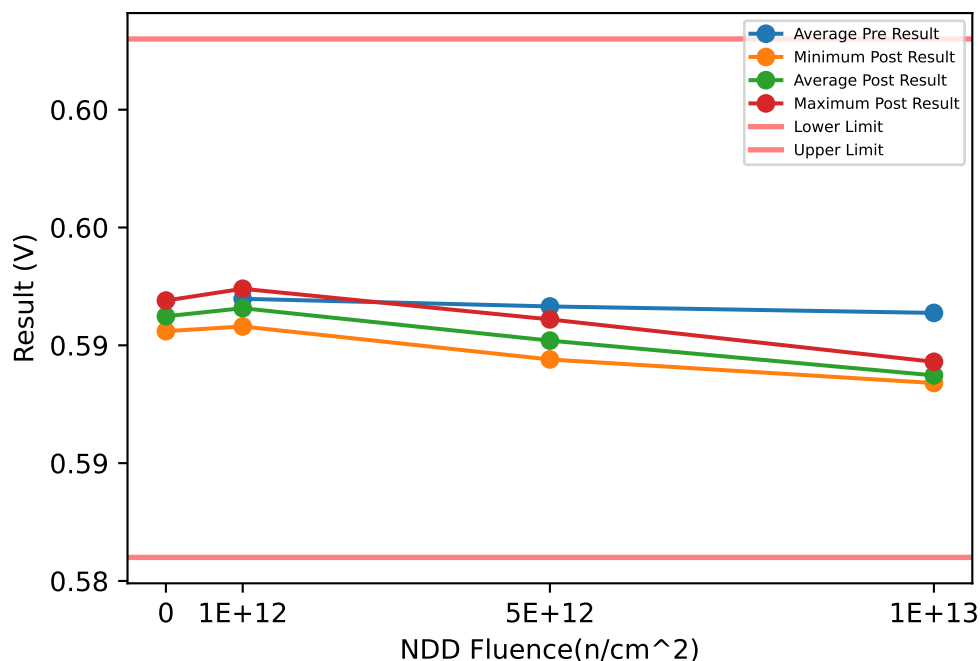


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.0683	0.0356	0.142	0.10517				
1e+12	0.0243	0.15552	0.308	0.13054	-0.0351	0.097125	0.2437	0.1274	-0.0643	-0.0584	-0.0521	0.0050286
5e+12	-0.0156	0.11102	0.2409	0.11064	-0.275	-0.13375	0.0219	0.12546	-0.2594	-0.24478	-0.219	0.018236
1e+13	0.0024	0.057825	0.1382	0.057358	-0.4291	-0.38427	-0.2947	0.061076	-0.4645	-0.4421	-0.4315	0.015335

Device Test: 15.27 FB|VFB/FB/3/0.6//10//@VFB_VIN_SUB_3V

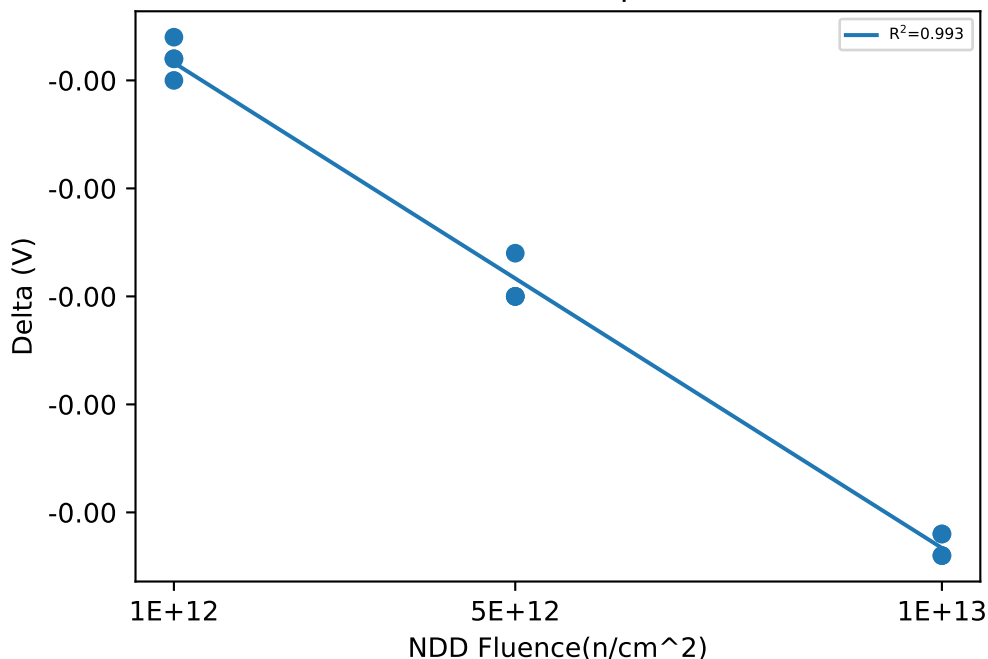
NDD vs Result Stats



Test Results (Lower Limit = 0.586, Upper Limit = 0.608 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5962	
55	0	CORRELATION		0.5956	
56	0	CORRELATION		0.5969	
64	1e+12	NDD	0.5979	0.5974	-0.0005
65	1e+12	NDD	0.5962	0.5958	-0.0004
66	1e+12	NDD	0.5965	0.5961	-0.0004
67	1e+12	NDD	0.5973	0.597	-0.0003
68	5e+12	NDD	0.5959	0.5944	-0.0015
69	5e+12	NDD	0.5964	0.5949	-0.0015
70	5e+12	NDD	0.5969	0.5954	-0.0015
71	5e+12	NDD	0.5974	0.5961	-0.0013
72	1e+13	NDD	0.5969	0.5943	-0.0026
73	1e+13	NDD	0.596	0.5934	-0.0026
74	1e+13	NDD	0.5963	0.5936	-0.0027
75	1e+13	NDD	0.5963	0.5936	-0.0027

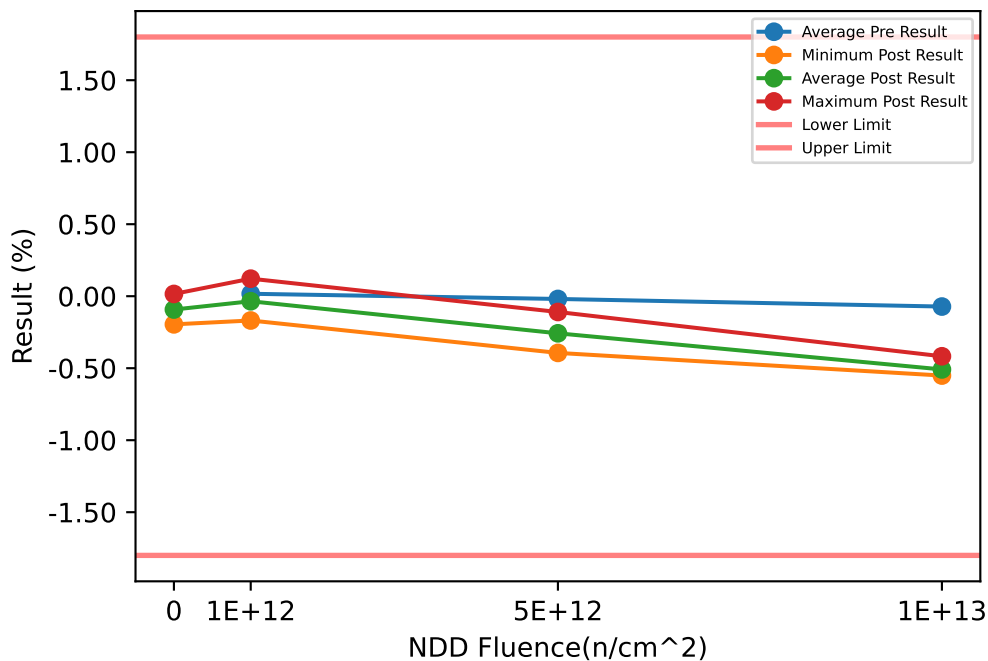
NDD vs Post - Pre Exposure Delta



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					0.5956	0.59623	0.5969	0.00065064				
1e+12	0.5962	0.59698	0.5979	0.0007719	0.5958	0.59657	0.5974	0.00075	-0.0005	-0.0004	-0.0003	8.165e-05
5e+12	0.5959	0.59665	0.5974	0.0006455	0.5944	0.5952	0.5961	0.00072572	-0.0015	-0.00145	-0.0013	0.0001
1e+13	0.596	0.59637	0.5969	0.00037749	0.5934	0.59373	0.5943	0.00039476	-0.0027	-0.00265	-0.0026	5.7735e-05

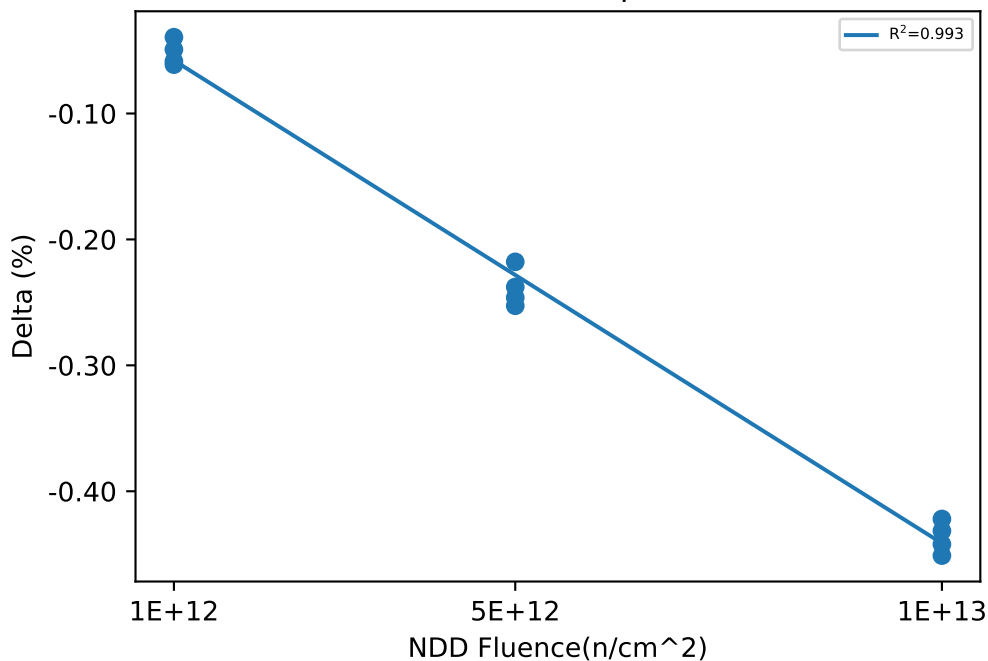
NDD vs Result Stats



Test Results (Lower Limit = -1.8, Upper Limit = 1.8 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.0978	
55	0	CORRELATION		-0.1956	
56	0	CORRELATION		0.0156	
64	1e+12	NDD	0.1709	0.1217	-0.0492
65	1e+12	NDD	-0.1075	-0.1687	-0.0612
66	1e+12	NDD	-0.0729	-0.1123	-0.0394
67	1e+12	NDD	0.0771	0.0186	-0.0585
68	5e+12	NDD	-0.1411	-0.3938	-0.2527
69	5e+12	NDD	-0.059	-0.3052	-0.2462
70	5e+12	NDD	0.0154	-0.2224	-0.2378
71	5e+12	NDD	0.1082	-0.1096	-0.2178
72	1e+13	NDD	0.0048	-0.4172	-0.422
73	1e+13	NDD	-0.1196	-0.5511	-0.4315
74	1e+13	NDD	-0.0868	-0.5379	-0.4511
75	1e+13	NDD	-0.0859	-0.528	-0.4421

NDD vs Post - Pre Exposure Delta

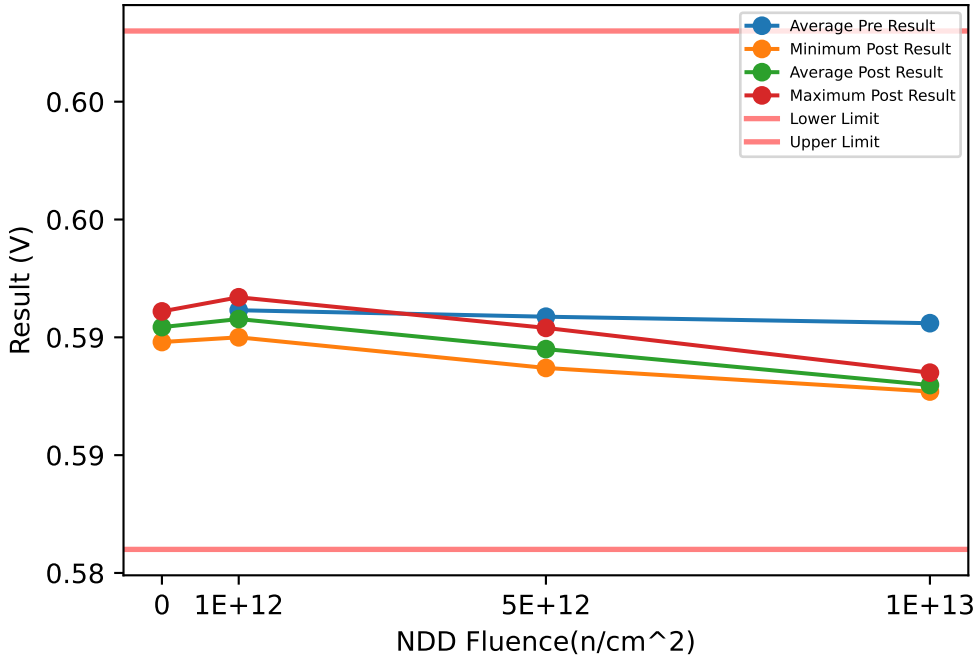


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.1956	-0.0926	0.0156	0.1057				
1e+12	-0.1075	0.0169	0.1709	0.13023	-0.1687	-0.035175	0.1217	0.13074	-0.0612	-0.052075	-0.0394	0.0098905
5e+12	-0.1411	-0.019125	0.1082	0.10626	-0.3938	-0.25775	-0.1096	0.12105	-0.2527	-0.23863	-0.2178	0.015164
1e+13	-0.1196	-0.071875	0.0048	0.053467	-0.5511	-0.50855	-0.4172	0.061631	-0.4511	-0.43668	-0.422	0.012644

Device Test: 15.32 FB|VFB/FB/3/0.6//1000//@VFB_VIN_SUB_3V

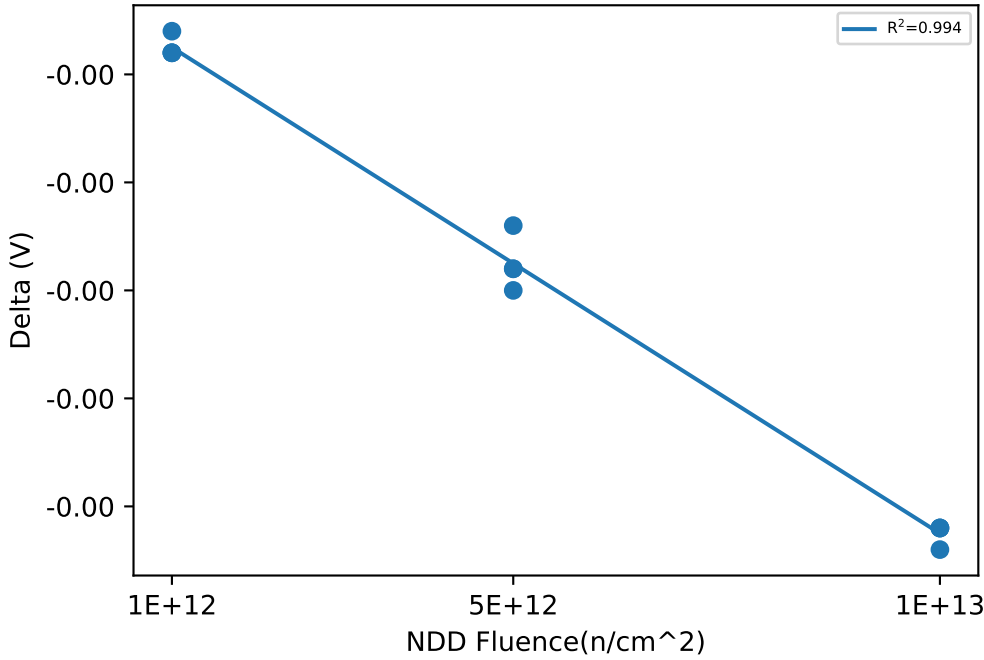
NDD vs Result Stats



Test Results (Lower Limit = 0.586, Upper Limit = 0.608 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5954	
55	0	CORRELATION		0.5948	
56	0	CORRELATION		0.5961	
64	1e+12	NDD	0.5971	0.5967	-0.0004
65	1e+12	NDD	0.5954	0.595	-0.0004
66	1e+12	NDD	0.5956	0.5953	-0.0003
67	1e+12	NDD	0.5965	0.5961	-0.0004
68	5e+12	NDD	0.5952	0.5937	-0.0015
69	5e+12	NDD	0.5956	0.5942	-0.0014
70	5e+12	NDD	0.5961	0.5947	-0.0014
71	5e+12	NDD	0.5966	0.5954	-0.0012
72	1e+13	NDD	0.5961	0.5935	-0.0026
73	1e+13	NDD	0.5953	0.5927	-0.0026
74	1e+13	NDD	0.5955	0.5928	-0.0027
75	1e+13	NDD	0.5955	0.5929	-0.0026

NDD vs Post - Pre Exposure Delta

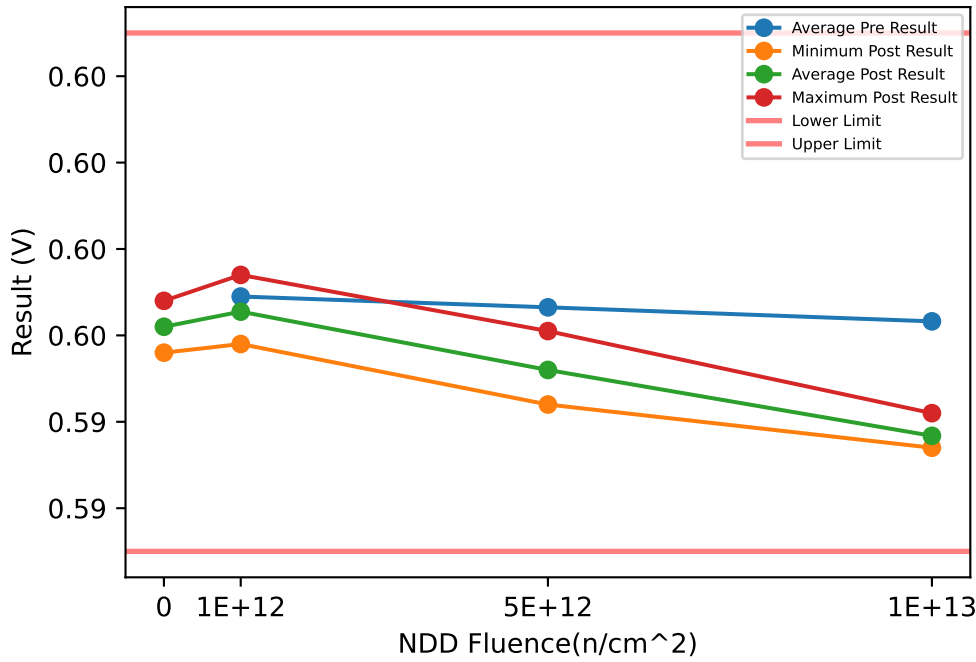


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					0.5948	0.59543	0.5961	0.00065064				
1e+12	0.5954	0.59615	0.5971	0.00079373	0.595	0.59577	0.5967	0.0007719	-0.0004	-0.000375	-0.0003	5e-05
5e+12	0.5952	0.59587	0.5966	0.00060759	0.5937	0.5945	0.5954	0.00072572	-0.0015	-0.001375	-0.0012	0.00012583
1e+13	0.5953	0.5956	0.5961	0.00034641	0.5927	0.59298	0.5935	0.0003594	-0.0027	-0.002625	-0.0026	5e-05

Device Test: 15.36 FB|VFB/FB/3.3/0.6//10//@VFB_25C

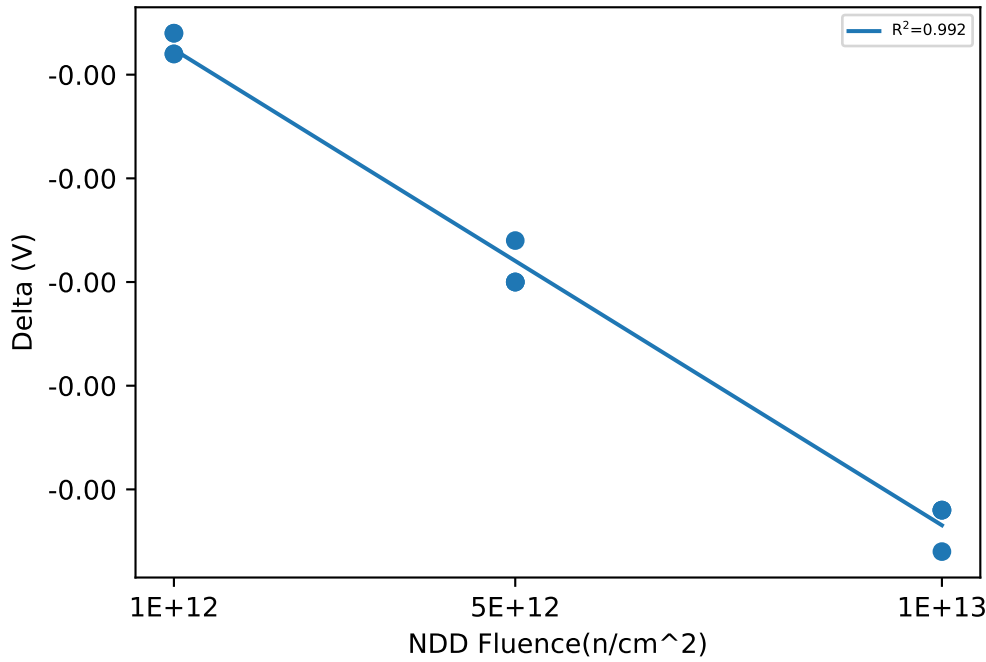
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5962	
55	0	CORRELATION		0.5956	
56	0	CORRELATION		0.5968	
64	1e+12	NDD	0.5978	0.5974	-0.0004
65	1e+12	NDD	0.5961	0.5958	-0.0003
66	1e+12	NDD	0.5964	0.5961	-0.0003
67	1e+12	NDD	0.5973	0.5969	-0.0004
68	5e+12	NDD	0.5959	0.5944	-0.0015
69	5e+12	NDD	0.5964	0.5949	-0.0015
70	5e+12	NDD	0.5969	0.5954	-0.0015
71	5e+12	NDD	0.5974	0.5961	-0.0013
72	1e+13	NDD	0.5968	0.5942	-0.0026
73	1e+13	NDD	0.596	0.5934	-0.0026
74	1e+13	NDD	0.5963	0.5935	-0.0028
75	1e+13	NDD	0.5962	0.5936	-0.0026

NDD vs Post - Pre Exposure Delta

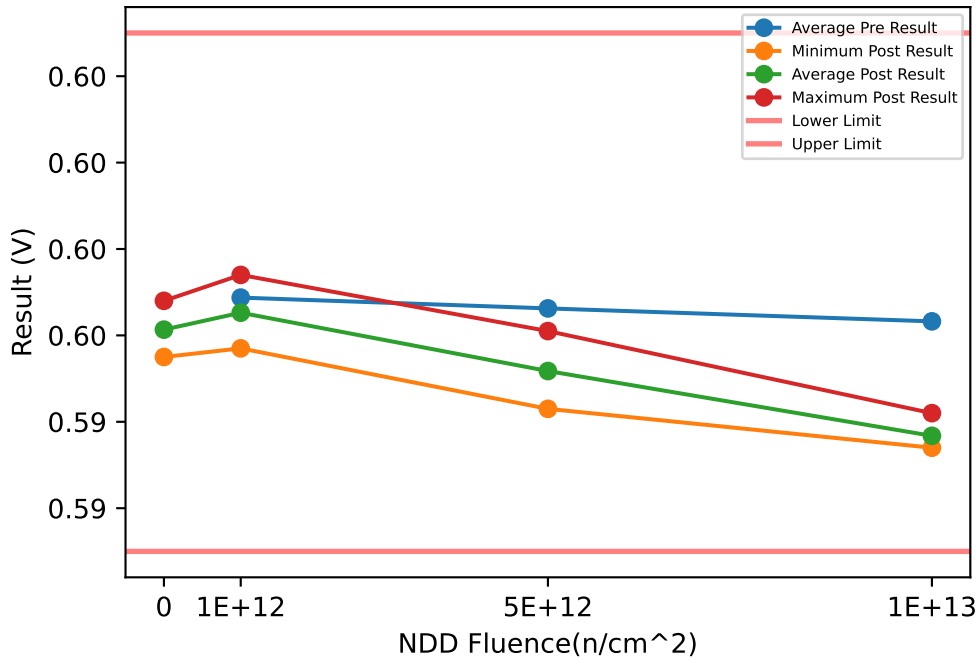


Test Statistics (V)

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					0.5956	0.5962	0.5968	0.0006				
1e+12	0.5961	0.5969	0.5978	0.0007874	0.5958	0.59655	0.5974	0.00073258	-0.0004	-0.00035	-0.0003	5.7735e-05
5e+12	0.5959	0.59665	0.5974	0.0006455	0.5944	0.5952	0.5961	0.00072572	-0.0015	-0.00145	-0.0013	0.0001
1e+13	0.596	0.59632	0.5968	0.00034034	0.5934	0.59367	0.5942	0.0003594	-0.0028	-0.00265	-0.0026	0.0001

Device Test: 15.40 OUTPUT|VFB_25C/FB/5/0.6//10//@VFB_25C

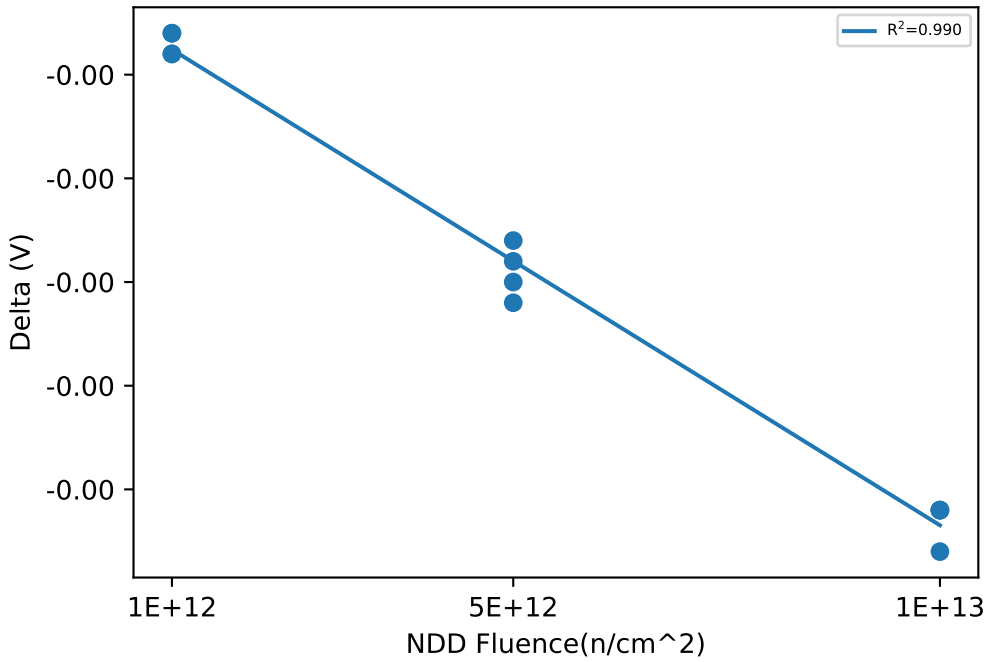
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5961	
55	0	CORRELATION		0.5955	
56	0	CORRELATION		0.5968	
64	1e+12	NDD	0.5978	0.5974	-0.0004
65	1e+12	NDD	0.5961	0.5957	-0.0004
66	1e+12	NDD	0.5964	0.5961	-0.0003
67	1e+12	NDD	0.5972	0.5969	-0.0003
68	5e+12	NDD	0.5959	0.5943	-0.0016
69	5e+12	NDD	0.5963	0.5949	-0.0014
70	5e+12	NDD	0.5969	0.5954	-0.0015
71	5e+12	NDD	0.5974	0.5961	-0.0013
72	1e+13	NDD	0.5968	0.5942	-0.0026
73	1e+13	NDD	0.596	0.5934	-0.0026
74	1e+13	NDD	0.5963	0.5935	-0.0028
75	1e+13	NDD	0.5962	0.5936	-0.0026

NDD vs Post - Pre Exposure Delta

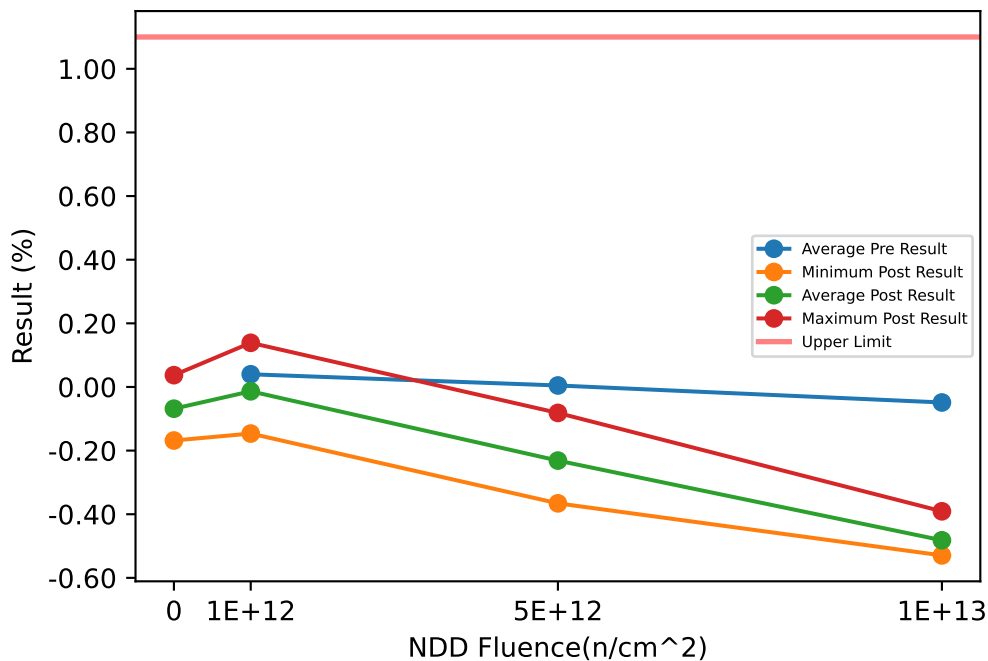


Test Statistics (V)

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					0.5955	0.59613	0.5968	0.00065064				
1e+12	0.5961	0.59688	0.5978	0.0007719	0.5957	0.59652	0.5974	0.00076757	-0.0004	-0.00035	-0.0003	5.7735e-05
5e+12	0.5959	0.59662	0.5974	0.00066018	0.5943	0.59518	0.5961	0.00076322	-0.0016	-0.00145	-0.0013	0.0001291
1e+13	0.596	0.59632	0.5968	0.00034034	0.5934	0.59367	0.5942	0.0003594	-0.0028	-0.00265	-0.0026	0.0001

Device Test: 15.44 IN|ACCURACY/OUT/5/3.3//1000//@OUT_ACC_25C

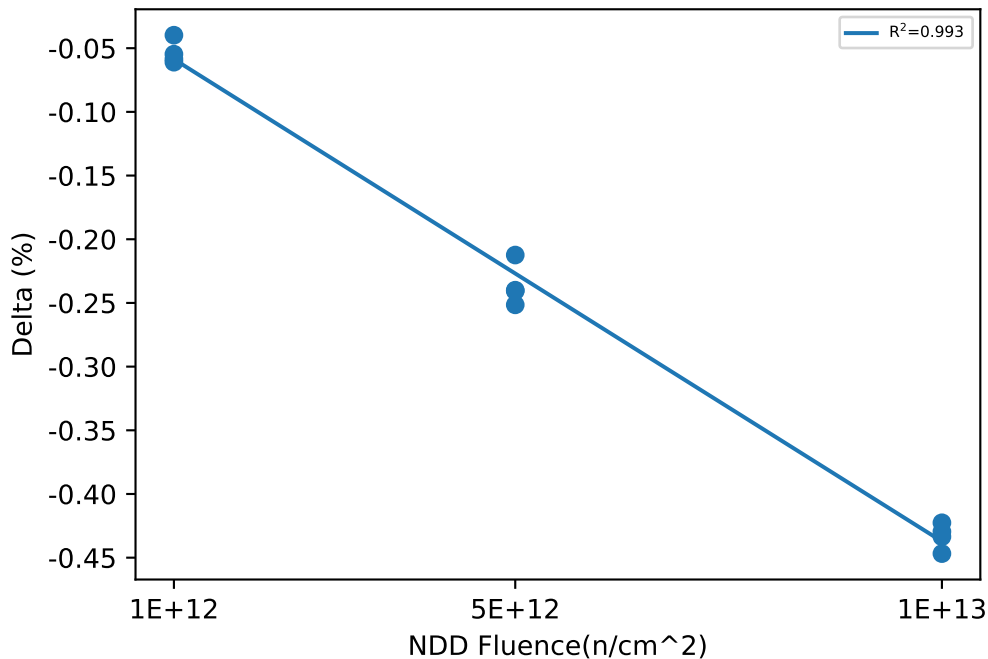
NDD vs Result Stats



Test Results (Upper Limit = 1.1 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.0737	
55	0	CORRELATION		-0.1683	
56	0	CORRELATION		0.0371	
64	1e+12	NDD	0.1998	0.1388	-0.061
65	1e+12	NDD	-0.0878	-0.1464	-0.0586
66	1e+12	NDD	-0.0461	-0.0859	-0.0398
67	1e+12	NDD	0.0937	0.039	-0.0547
68	5e+12	NDD	-0.1143	-0.3658	-0.2515
69	5e+12	NDD	-0.0396	-0.2796	-0.24
70	5e+12	NDD	0.0419	-0.1987	-0.2406
71	5e+12	NDD	0.1308	-0.0816	-0.2124
72	1e+13	NDD	0.0318	-0.3908	-0.4226
73	1e+13	NDD	-0.0999	-0.5294	-0.4295
74	1e+13	NDD	-0.0597	-0.5065	-0.4468
75	1e+13	NDD	-0.0672	-0.5007	-0.4335

NDD vs Post - Pre Exposure Delta

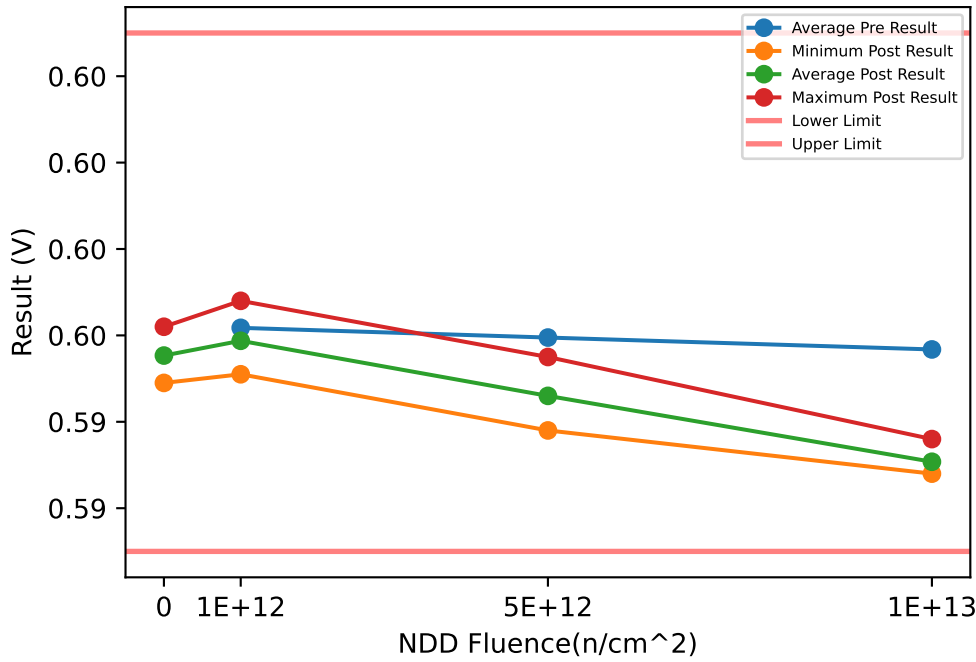


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.1683	-0.0683	0.0371	0.10281				
1e+12	-0.0878	0.0399	0.1998	0.13187	-0.1464	-0.013625	0.1388	0.12761	-0.061	-0.053525	-0.0398	0.0095112
5e+12	-0.1143	0.0047	0.1308	0.10553	-0.3658	-0.23142	-0.0816	0.12096	-0.2515	-0.23613	-0.2124	0.016676
1e+13	-0.0999	-0.04875	0.0318	0.056465	-0.5294	-0.48185	-0.3908	0.061952	-0.4468	-0.4331	-0.4226	0.010183

Device Test: 15.45 FB|VFB/FB/5/3.3//1000//@VFB_25C

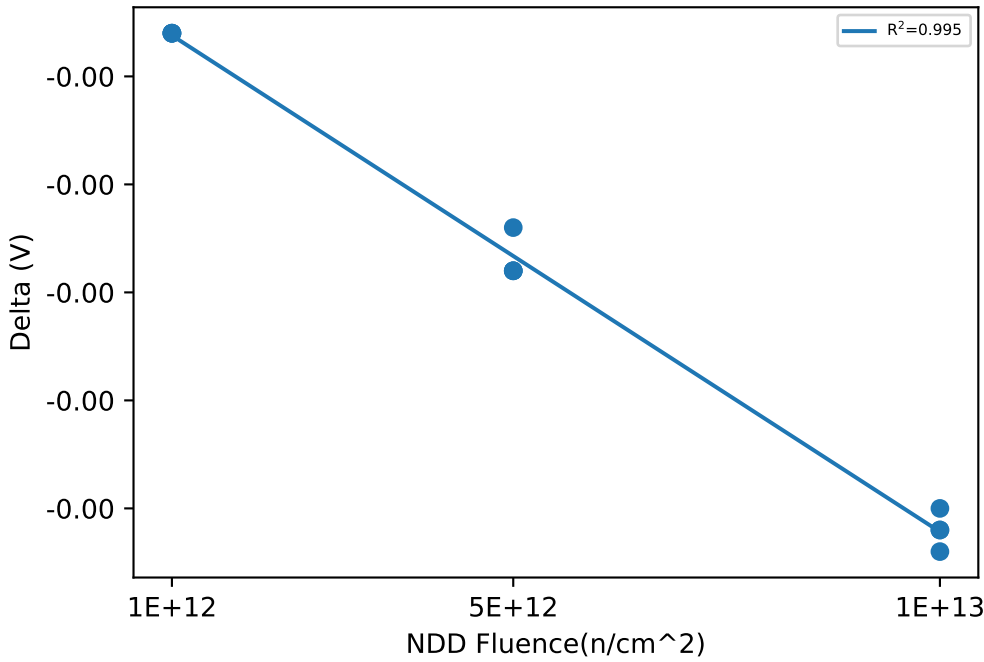
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5955	
55	0	CORRELATION		0.5949	
56	0	CORRELATION		0.5962	
64	1e+12	NDD	0.5971	0.5968	-0.0003
65	1e+12	NDD	0.5954	0.5951	-0.0003
66	1e+12	NDD	0.5957	0.5954	-0.0003
67	1e+12	NDD	0.5965	0.5962	-0.0003
68	5e+12	NDD	0.5952	0.5938	-0.0014
69	5e+12	NDD	0.5957	0.5943	-0.0014
70	5e+12	NDD	0.5962	0.5948	-0.0014
71	5e+12	NDD	0.5967	0.5955	-0.0012
72	1e+13	NDD	0.5961	0.5936	-0.0025
73	1e+13	NDD	0.5954	0.5928	-0.0026
74	1e+13	NDD	0.5956	0.5929	-0.0027
75	1e+13	NDD	0.5956	0.593	-0.0026

NDD vs Post - Pre Exposure Delta

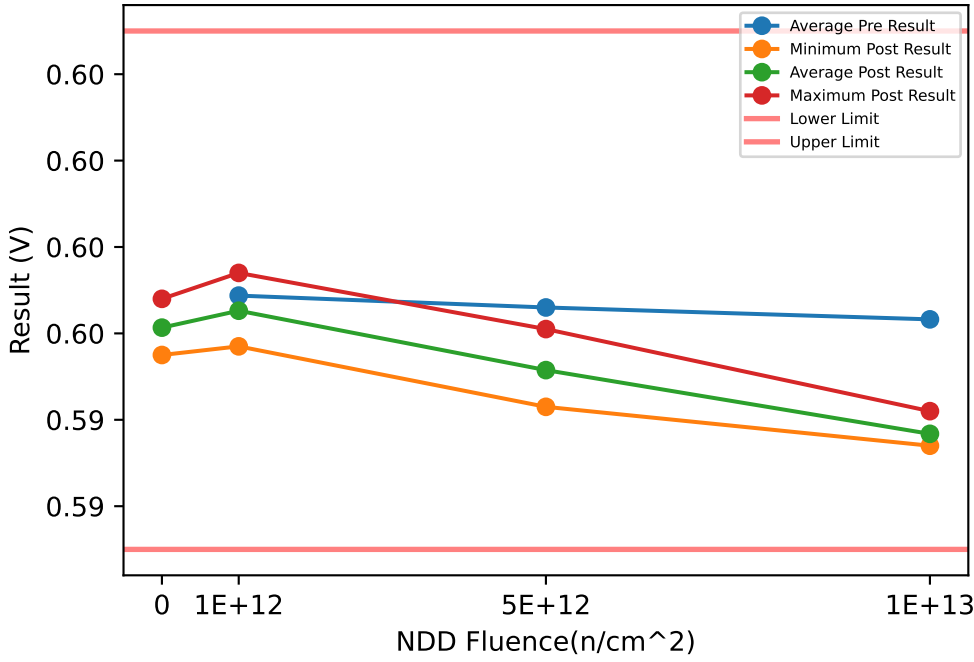


Test Statistics (V)

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					0.5949	0.59553	0.5962	0.00065064				
1e+12	0.5954	0.59618	0.5971	0.0007719	0.5951	0.59587	0.5968	0.0007719	-0.0003	-0.0003	-0.0003	6.4099e-17
5e+12	0.5952	0.59595	0.5967	0.0006455	0.5938	0.5946	0.5955	0.00072572	-0.0014	-0.00135	-0.0012	0.0001
1e+13	0.5954	0.59567	0.5961	0.00029861	0.5928	0.59308	0.5936	0.0003594	-0.0027	-0.0026	-0.0025	8.165e-05

Device Test: 15.49 FB|VFB/FB/7/0.6//10//@VFB_25C

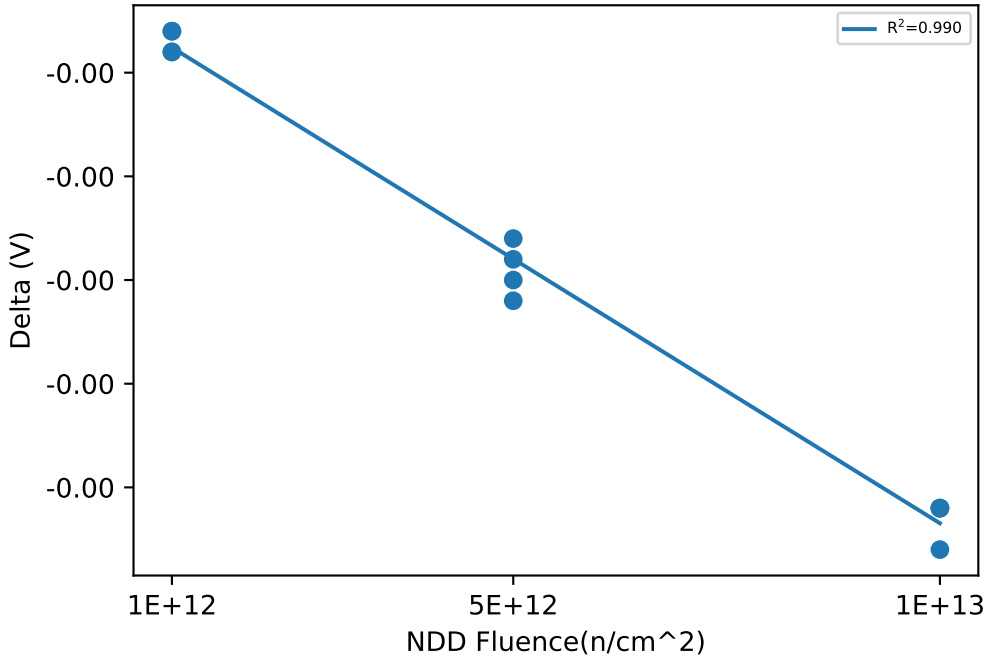
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5961	
55	0	CORRELATION		0.5955	
56	0	CORRELATION		0.5968	
64	1e+12	NDD	0.5978	0.5974	-0.0004
65	1e+12	NDD	0.5961	0.5957	-0.0004
66	1e+12	NDD	0.5964	0.5961	-0.0003
67	1e+12	NDD	0.5972	0.5969	-0.0003
68	5e+12	NDD	0.5959	0.5943	-0.0016
69	5e+12	NDD	0.5963	0.5949	-0.0014
70	5e+12	NDD	0.5968	0.5953	-0.0015
71	5e+12	NDD	0.5974	0.5961	-0.0013
72	1e+13	NDD	0.5968	0.5942	-0.0026
73	1e+13	NDD	0.596	0.5934	-0.0026
74	1e+13	NDD	0.5963	0.5935	-0.0028
75	1e+13	NDD	0.5962	0.5936	-0.0026

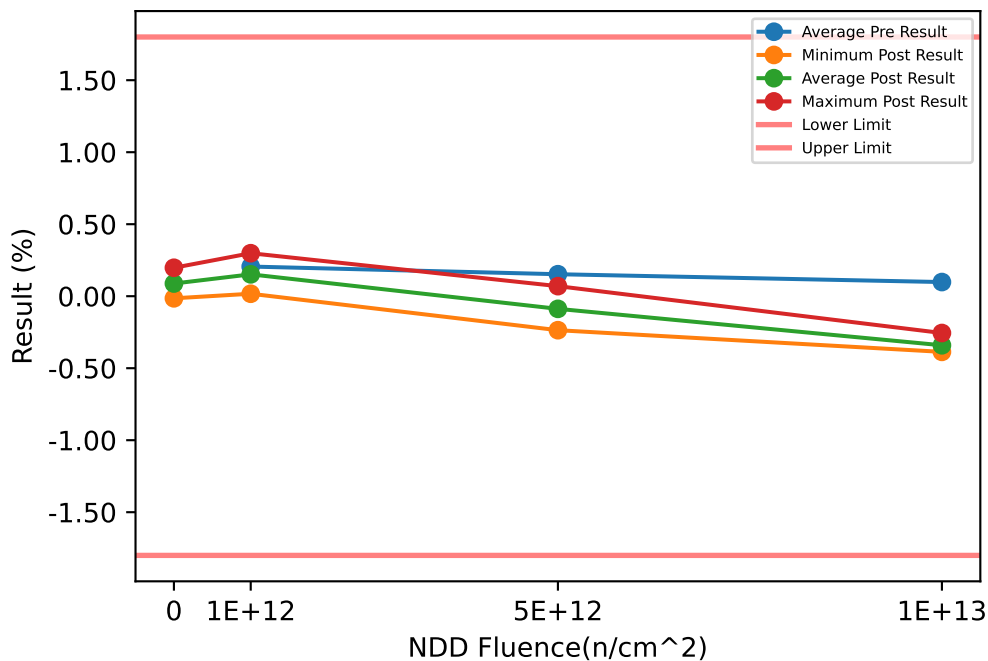
NDD vs Post - Pre Exposure Delta



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					0.5955	0.59613	0.5968	0.00065064				
1e+12	0.5961	0.59688	0.5978	0.0007719	0.5957	0.59652	0.5974	0.00076757	-0.0004	-0.00035	-0.0003	5.7735e-05
5e+12	0.5959	0.5966	0.5974	0.00064807	0.5943	0.59515	0.5961	0.00075498	-0.0016	-0.00145	-0.0013	0.0001291
1e+13	0.596	0.59632	0.5968	0.00034034	0.5934	0.59367	0.5942	0.0003594	-0.0028	-0.00265	-0.0026	0.0001

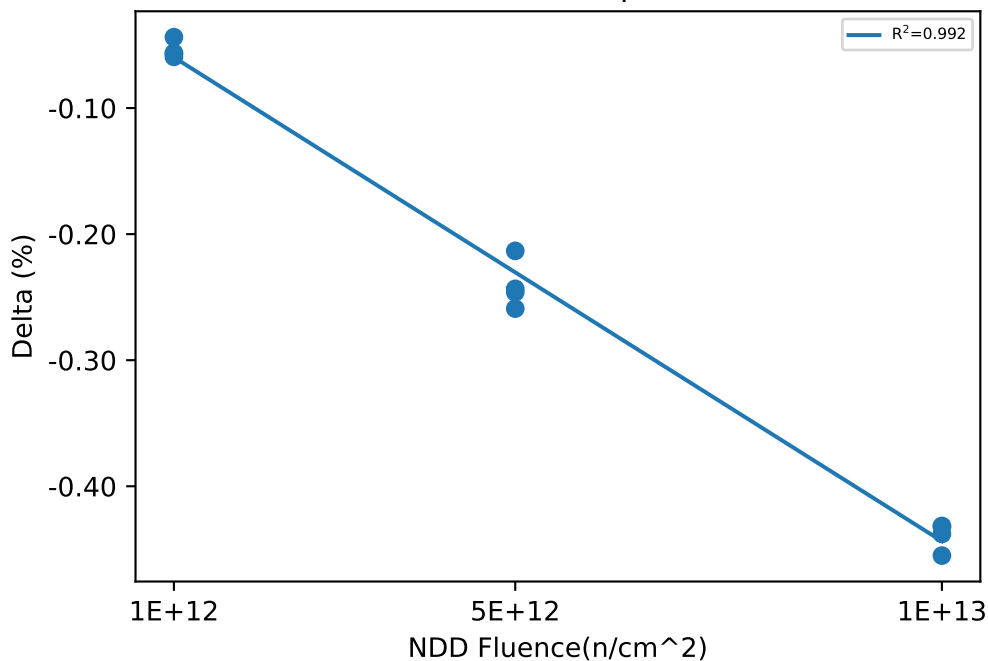
NDD vs Result Stats



Test Results (Lower Limit = -1.8, Upper Limit = 1.8 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0813	
55	0	CORRELATION		-0.0147	
56	0	CORRELATION		0.1974	
64	1e+12	NDD	0.3548	0.2985	-0.0563
65	1e+12	NDD	0.0764	0.017	-0.0594
66	1e+12	NDD	0.1157	0.0719	-0.0438
67	1e+12	NDD	0.2766	0.2197	-0.0569
68	5e+12	NDD	0.023	-0.2361	-0.2591
69	5e+12	NDD	0.1138	-0.1296	-0.2434
70	5e+12	NDD	0.1906	-0.0555	-0.2461
71	5e+12	NDD	0.2831	0.0698	-0.2133
72	1e+13	NDD	0.1763	-0.2556	-0.4319
73	1e+13	NDD	0.0449	-0.3866	-0.4315
74	1e+13	NDD	0.0814	-0.3736	-0.455
75	1e+13	NDD	0.0904	-0.3474	-0.4378

NDD vs Post - Pre Exposure Delta

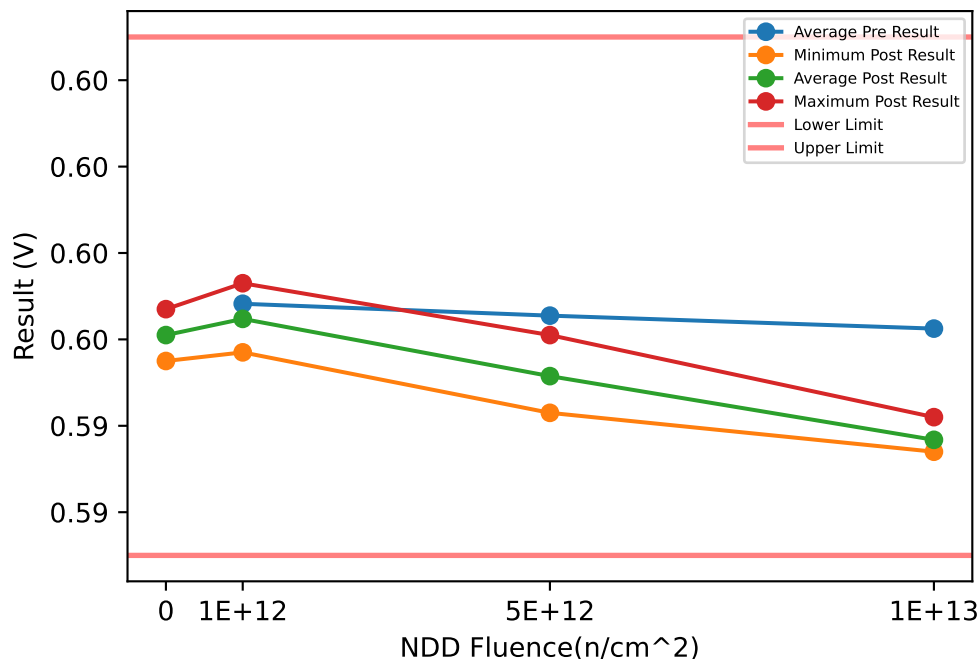


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.0147	0.088	0.1974	0.10621				
1e+12	0.0764	0.20588	0.3548	0.13175	0.017	0.15177	0.2985	0.12998	-0.0594	-0.0541	-0.0438	0.0069967
5e+12	0.023	0.15263	0.2831	0.11072	-0.2361	-0.08785	0.0698	0.12861	-0.2591	-0.24047	-0.2133	0.01937
1e+13	0.0449	0.09825	0.1763	0.055628	-0.3866	-0.3408	-0.2556	0.059093	-0.455	-0.43905	-0.4315	0.011017

Device Test: 15.53 FB|VFB/FB/12/0.6//10//@VFB_25C

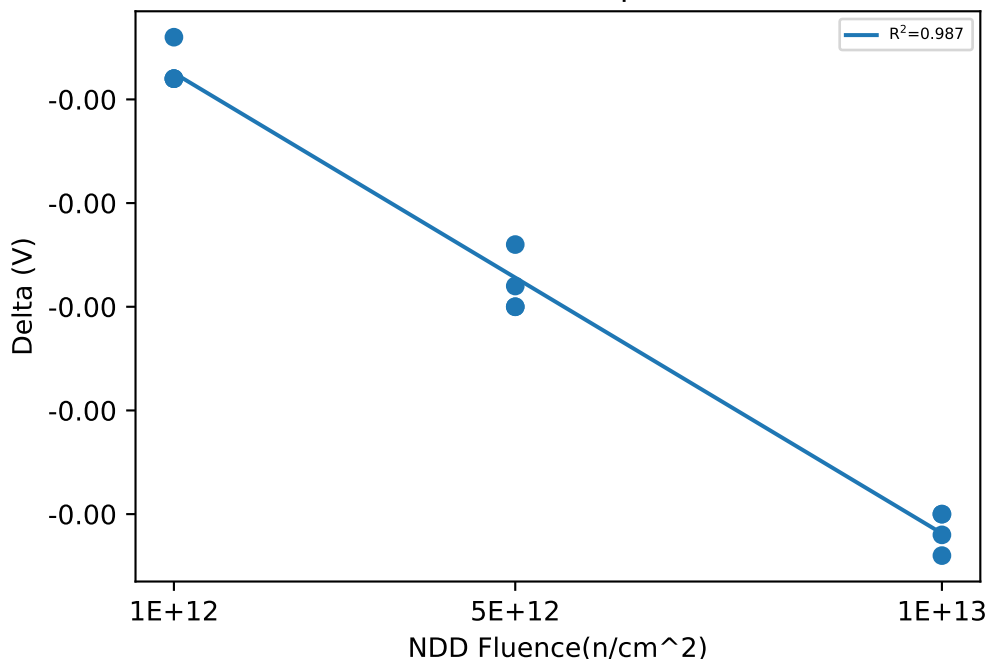
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5961	
55	0	CORRELATION		0.5955	
56	0	CORRELATION		0.5967	
64	1e+12	NDD	0.5977	0.5973	-0.0004
65	1e+12	NDD	0.5961	0.5957	-0.0004
66	1e+12	NDD	0.5963	0.5961	-0.0002
67	1e+12	NDD	0.5972	0.5968	-0.0004
68	5e+12	NDD	0.5958	0.5943	-0.0015
69	5e+12	NDD	0.5963	0.5949	-0.0014
70	5e+12	NDD	0.5968	0.5953	-0.0015
71	5e+12	NDD	0.5973	0.5961	-0.0012
72	1e+13	NDD	0.5967	0.5942	-0.0025
73	1e+13	NDD	0.5959	0.5934	-0.0025
74	1e+13	NDD	0.5962	0.5935	-0.0027
75	1e+13	NDD	0.5962	0.5936	-0.0026

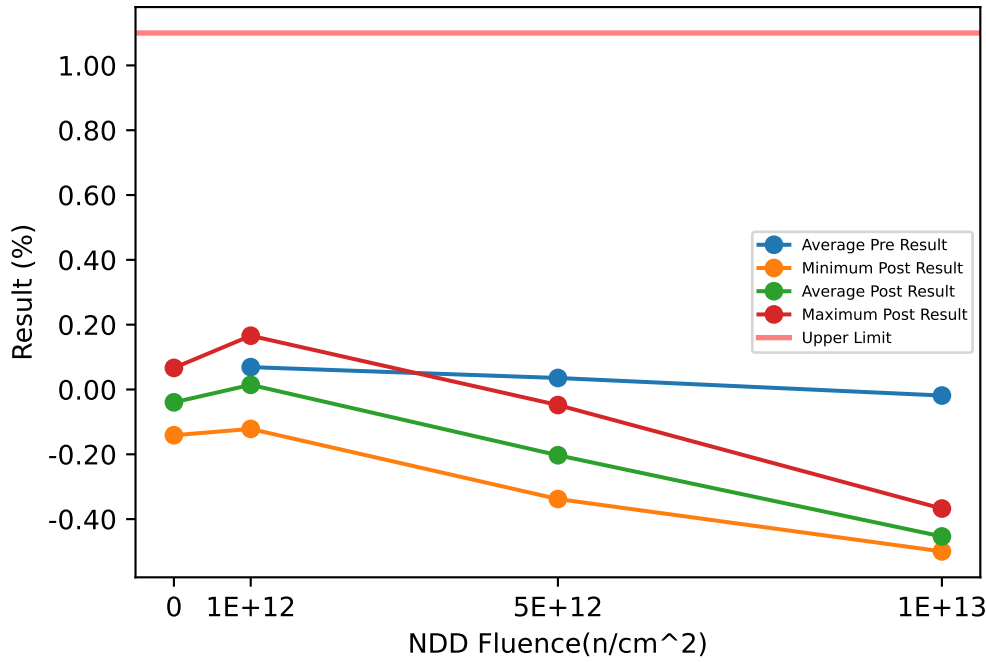
NDD vs Post - Pre Exposure Delta



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					0.5955	0.5961	0.5967	0.0006				
1e+12	0.5961	0.59682	0.5977	0.00075443	0.5957	0.59647	0.5973	0.00071356	-0.0004	-0.00035	-0.0002	0.0001
5e+12	0.5958	0.59655	0.5973	0.0006455	0.5943	0.59515	0.5961	0.00075498	-0.0015	-0.0014	-0.0012	0.00014142
1e+13	0.5959	0.59625	0.5967	0.00033166	0.5934	0.59367	0.5942	0.0003594	-0.0027	-0.002575	-0.0025	9.5743e-05

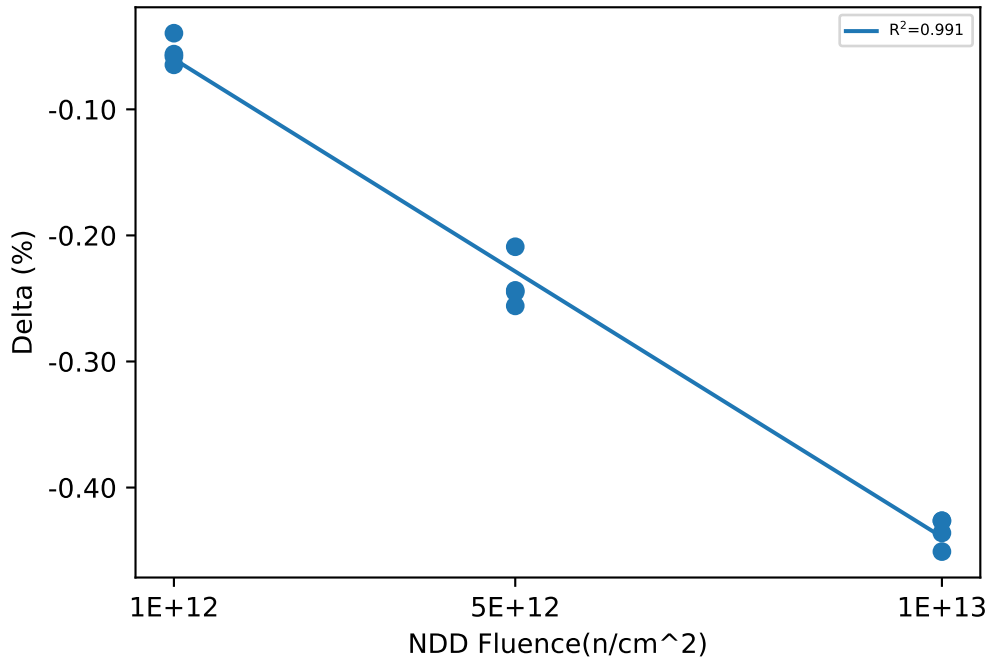
NDD vs Result Stats



Test Results (Upper Limit = 1.1 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.0444	
55	0	CORRELATION		-0.1411	
56	0	CORRELATION		0.0666	
64	1e+12	NDD	0.2221	0.1659	-0.0562
65	1e+12	NDD	-0.057	-0.1217	-0.0647
66	1e+12	NDD	-0.0145	-0.0541	-0.0396
67	1e+12	NDD	0.1254	0.0673	-0.0581
68	5e+12	NDD	-0.0821	-0.338	-0.2559
69	5e+12	NDD	-0.0088	-0.2524	-0.2436
70	5e+12	NDD	0.0718	-0.1731	-0.2449
71	5e+12	NDD	0.161	-0.048	-0.209
72	1e+13	NDD	0.059	-0.3674	-0.4264
73	1e+13	NDD	-0.0733	-0.4996	-0.4263
74	1e+13	NDD	-0.0245	-0.4753	-0.4508
75	1e+13	NDD	-0.0358	-0.4718	-0.436

NDD vs Post - Pre Exposure Delta

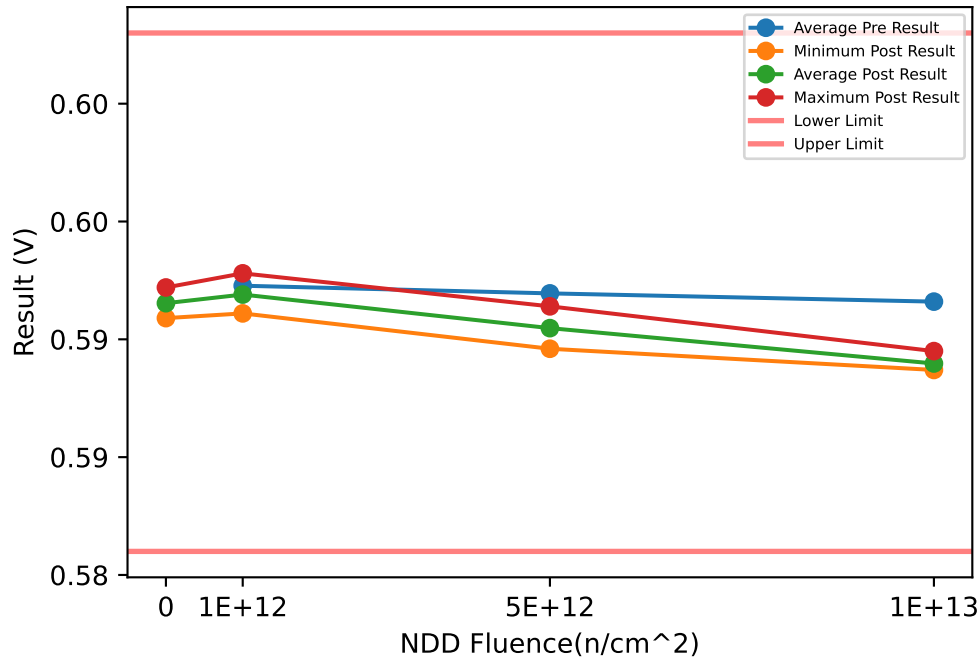


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.1411	-0.039633	0.0666	0.10393				
1e+12	-0.057	0.069	0.2221	0.12841	-0.1217	0.01435	0.1659	0.12776	-0.0647	-0.05465	-0.0396	0.010674
5e+12	-0.0821	0.035475	0.161	0.10466	-0.338	-0.20287	-0.048	0.12327	-0.2559	-0.23835	-0.209	0.02033
1e+13	-0.0733	-0.01865	0.059	0.055811	-0.4996	-0.45353	-0.3674	0.058733	-0.4508	-0.43488	-0.4263	0.01155

Device Test: 15.6 FB|VFB/FB/2.25/0.6//10//@VFB_VIN_SUB_3V

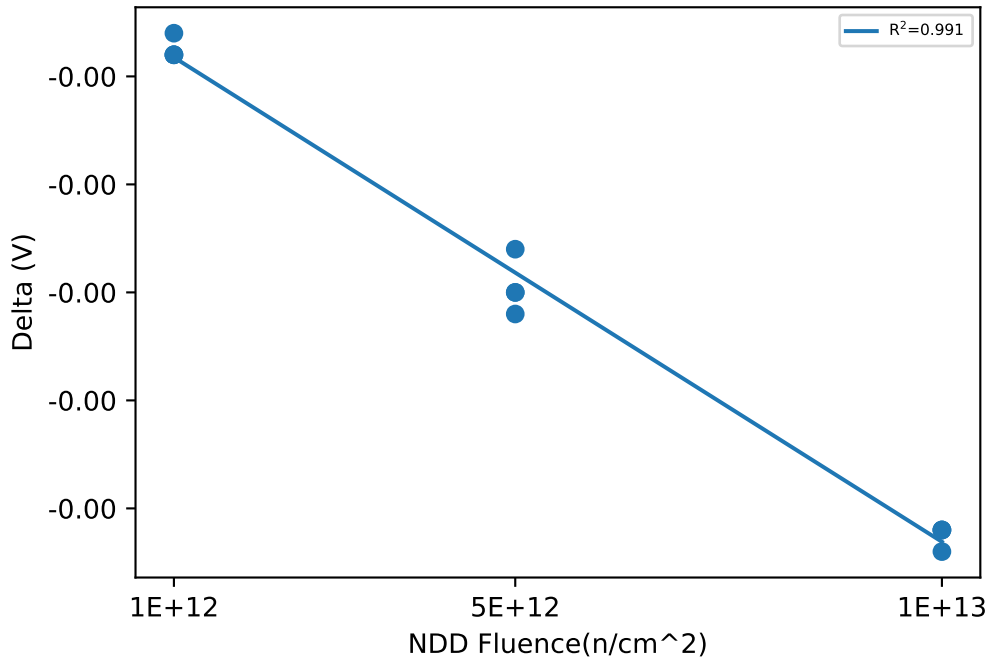
NDD vs Result Stats



Test Results (Lower Limit = 0.586, Upper Limit = 0.608 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5965	
55	0	CORRELATION		0.5959	
56	0	CORRELATION		0.5972	
64	1e+12	NDD	0.5982	0.5978	-0.0004
65	1e+12	NDD	0.5965	0.5961	-0.0004
66	1e+12	NDD	0.5967	0.5964	-0.0003
67	1e+12	NDD	0.5977	0.5973	-0.0004
68	5e+12	NDD	0.5962	0.5946	-0.0016
69	5e+12	NDD	0.5967	0.5952	-0.0015
70	5e+12	NDD	0.5972	0.5957	-0.0015
71	5e+12	NDD	0.5977	0.5964	-0.0013
72	1e+13	NDD	0.5971	0.5945	-0.0026
73	1e+13	NDD	0.5963	0.5937	-0.0026
74	1e+13	NDD	0.5965	0.5938	-0.0027
75	1e+13	NDD	0.5965	0.5939	-0.0026

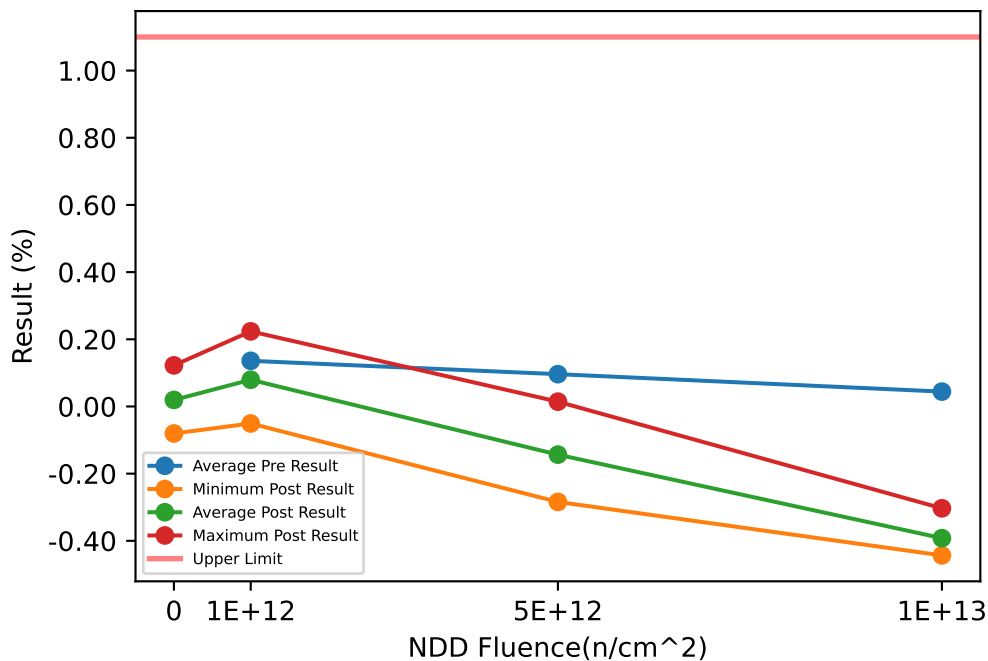
NDD vs Post - Pre Exposure Delta



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					0.5959	0.59653	0.5972	0.00065064				
1e+12	0.5965	0.59728	0.5982	0.00080984	0.5961	0.5969	0.5978	0.0007874	-0.0004	-0.000375	-0.0003	5e-05
5e+12	0.5962	0.59695	0.5977	0.0006455	0.5946	0.59547	0.5964	0.00076322	-0.0016	-0.001475	-0.0013	0.00012583
1e+13	0.5963	0.5966	0.5971	0.00034641	0.5937	0.59398	0.5945	0.0003594	-0.0027	-0.002625	-0.0026	5e-05

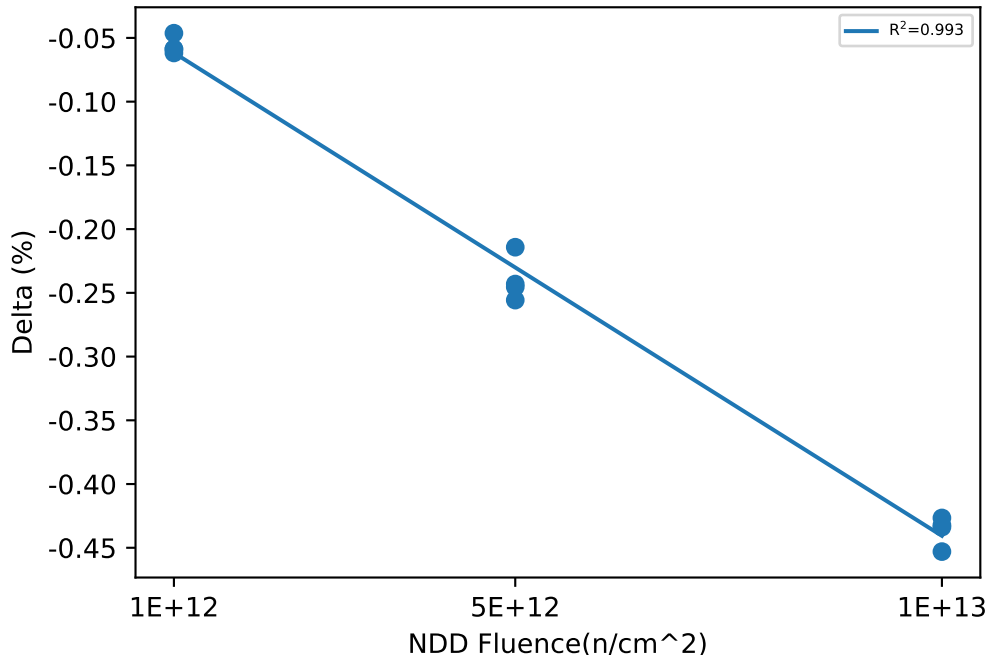
NDD vs Result Stats



Test Results (Upper Limit = 1.1 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0163	
55	0	CORRELATION		-0.0804	
56	0	CORRELATION		0.1224	
64	1e+12	NDD	0.2854	0.2236	-0.0618
65	1e+12	NDD	0.008	-0.0507	-0.0587
66	1e+12	NDD	0.0529	0.0066	-0.0463
67	1e+12	NDD	0.1973	0.1385	-0.0588
68	5e+12	NDD	-0.0285	-0.2842	-0.2557
69	5e+12	NDD	0.0548	-0.1883	-0.2431
70	5e+12	NDD	0.1299	-0.1155	-0.2454
71	5e+12	NDD	0.2285	0.0143	-0.2142
72	1e+13	NDD	0.1234	-0.3032	-0.4266
73	1e+13	NDD	-0.0112	-0.4434	-0.4322
74	1e+13	NDD	0.037	-0.416	-0.453
75	1e+13	NDD	0.0279	-0.4059	-0.4338

NDD vs Post - Pre Exposure Delta

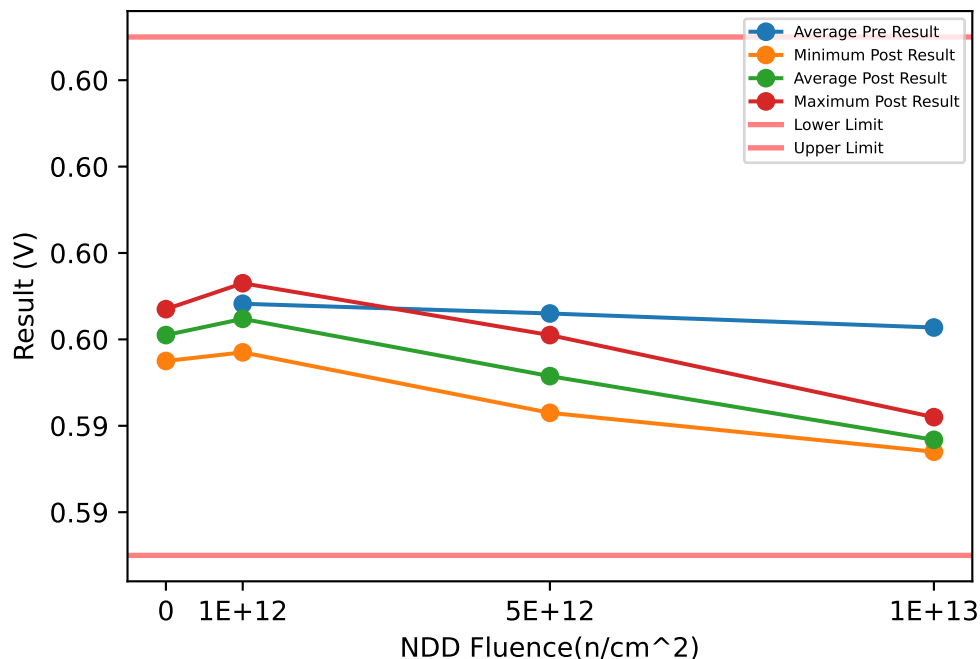


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.0804	0.019433	0.1224	0.10144				
1e+12	0.008	0.1359	0.2854	0.12828	-0.0507	0.0795	0.2236	0.12452	-0.0618	-0.0564	-0.0463	0.0068852
5e+12	-0.0285	0.096175	0.2285	0.1094	-0.2842	-0.14342	0.0143	0.12582	-0.2557	-0.2396	-0.2142	0.017798
1e+13	-0.0112	0.044275	0.1234	0.056743	-0.4434	-0.39213	-0.3032	0.061364	-0.453	-0.4364	-0.4266	0.011489

Device Test: 15.63 FB|VFB/FB/14/0.6//10//@VFB_25C

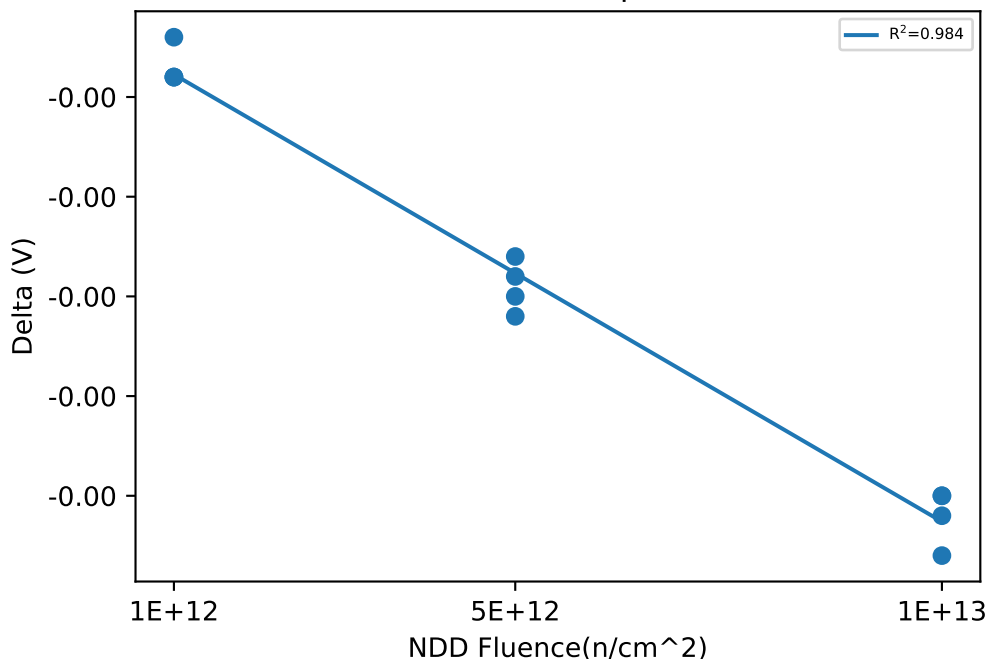
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5961	
55	0	CORRELATION		0.5955	
56	0	CORRELATION		0.5967	
64	1e+12	NDD	0.5977	0.5973	-0.0004
65	1e+12	NDD	0.5961	0.5957	-0.0004
66	1e+12	NDD	0.5963	0.5961	-0.0002
67	1e+12	NDD	0.5972	0.5968	-0.0004
68	5e+12	NDD	0.5959	0.5943	-0.0016
69	5e+12	NDD	0.5963	0.5949	-0.0014
70	5e+12	NDD	0.5968	0.5953	-0.0015
71	5e+12	NDD	0.5974	0.5961	-0.0013
72	1e+13	NDD	0.5967	0.5942	-0.0025
73	1e+13	NDD	0.5959	0.5934	-0.0025
74	1e+13	NDD	0.5963	0.5935	-0.0028
75	1e+13	NDD	0.5962	0.5936	-0.0026

NDD vs Post - Pre Exposure Delta

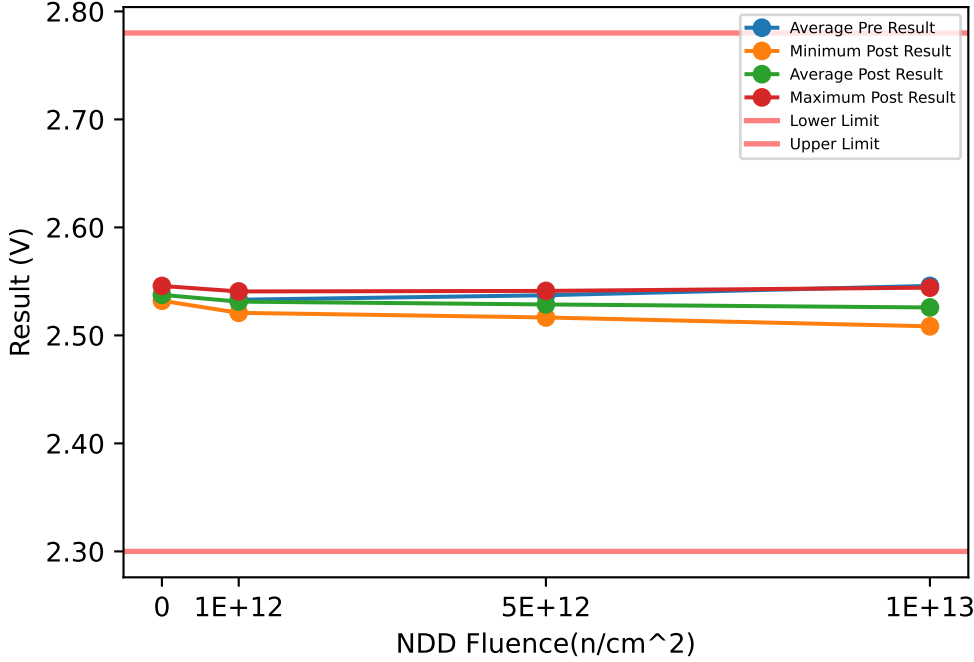


Test Statistics (V)

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					0.5955	0.5961	0.5967	0.0006				
1e+12	0.5961	0.59682	0.5977	0.00075443	0.5957	0.59647	0.5973	0.00071356	-0.0004	-0.00035	-0.0002	0.0001
5e+12	0.5959	0.5966	0.5974	0.00064807	0.5943	0.59515	0.5961	0.00075498	-0.0016	-0.00145	-0.0013	0.0001291
1e+13	0.5959	0.59627	0.5967	0.0003304	0.5934	0.59367	0.5942	0.0003594	-0.0028	-0.0026	-0.0025	0.00014142

Device Test: 15.64 OUTPUT|VLDO/VLDO/14/0.6//10//@V_VLDO

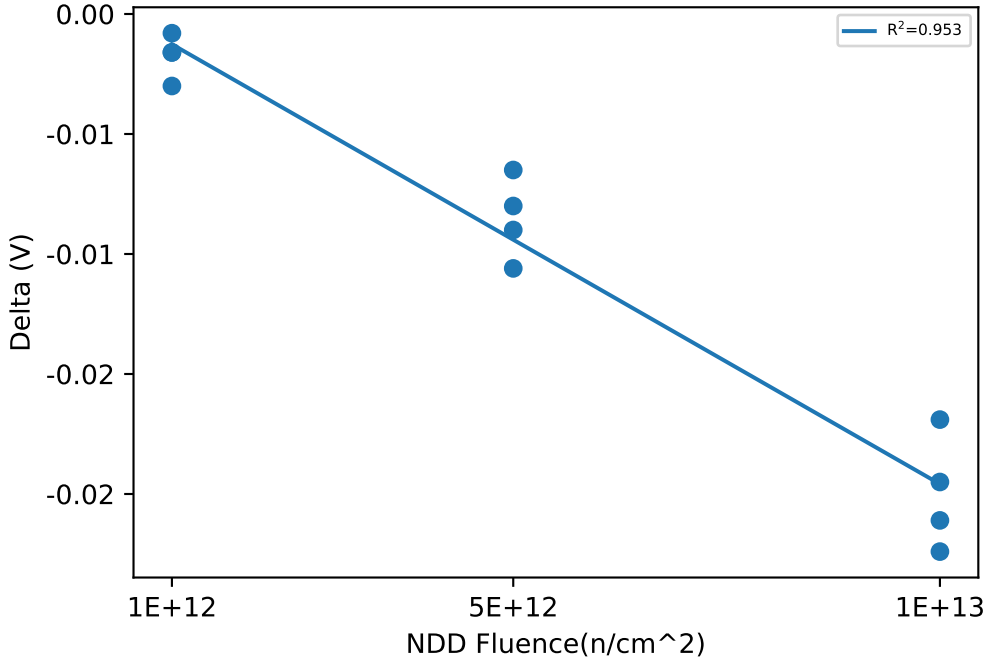
NDD vs Result Stats



Test Results (Lower Limit = 2.3, Upper Limit = 2.78 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		2.5458	
55	0	CORRELATION		2.5348	
56	0	CORRELATION		2.5321	
64	1e+12	NDD	2.5301	2.5293	-0.0008
65	1e+12	NDD	2.5423	2.5407	-0.0016
66	1e+12	NDD	2.5239	2.5209	-0.003
67	1e+12	NDD	2.5358	2.5342	-0.0016
68	5e+12	NDD	2.5231	2.5166	-0.0065
69	5e+12	NDD	2.5436	2.533	-0.0106
70	5e+12	NDD	2.5502	2.5412	-0.009
71	5e+12	NDD	2.5318	2.5238	-0.008
72	1e+13	NDD	2.5479	2.5268	-0.0211
73	1e+13	NDD	2.5637	2.5442	-0.0195
74	1e+13	NDD	2.5308	2.5084	-0.0224
75	1e+13	NDD	2.541	2.5241	-0.0169

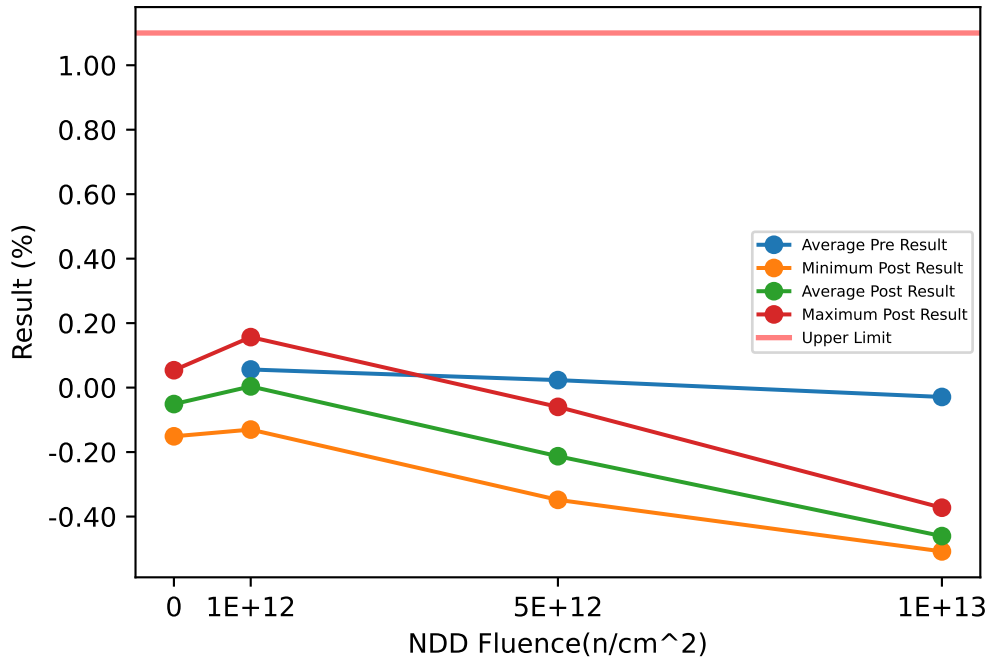
NDD vs Post - Pre Exposure Delta



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					2.5321	2.5376	2.5458	0.007257				
1e+12	2.5239	2.533	2.5423	0.0078644	2.5209	2.5313	2.5407	0.0083452	-0.003	-0.00175	-0.0008	0.00091469
5e+12	2.5231	2.5372	2.5502	0.012082	2.5166	2.5286	2.5412	0.010726	-0.0106	-0.008525	-0.0065	0.0017231
1e+13	2.5308	2.5458	2.5637	0.013818	2.5084	2.5259	2.5442	0.014665	-0.0224	-0.019975	-0.0169	0.0023684

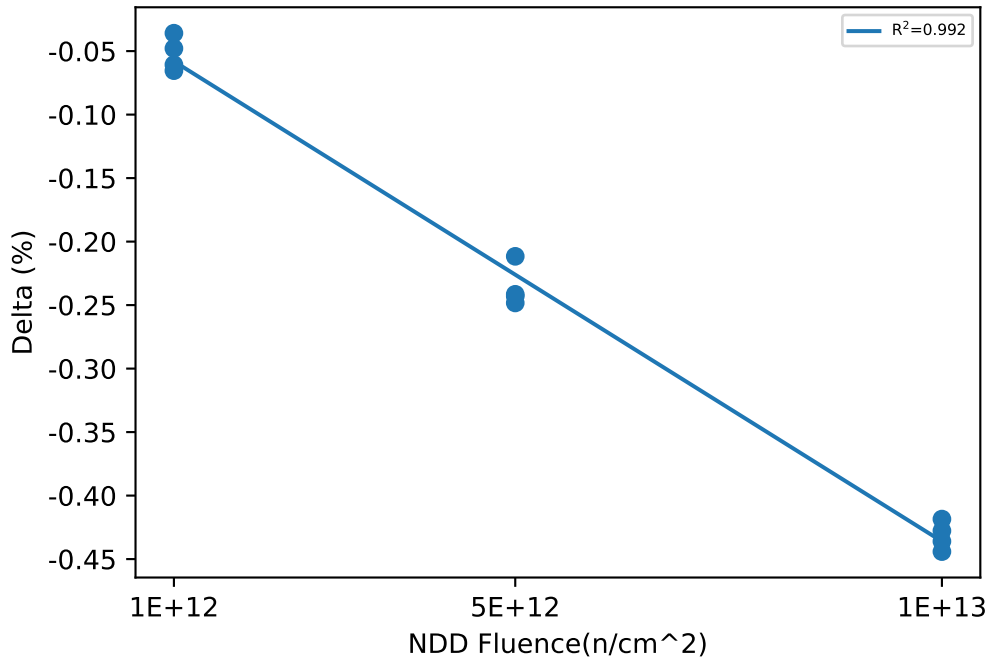
NDD vs Result Stats



Test Results (Upper Limit = 1.1 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.056	
55	0	CORRELATION		-0.1511	
56	0	CORRELATION		0.0539	
64	1e+12	NDD	0.2045	0.1566	-0.0479
65	1e+12	NDD	-0.0648	-0.1302	-0.0654
66	1e+12	NDD	-0.031	-0.0669	-0.0359
67	1e+12	NDD	0.1161	0.0554	-0.0607
68	5e+12	NDD	-0.0999	-0.3482	-0.2483
69	5e+12	NDD	-0.0184	-0.2614	-0.243
70	5e+12	NDD	0.0594	-0.1821	-0.2415
71	5e+12	NDD	0.1518	-0.0598	-0.2116
72	1e+13	NDD	0.0459	-0.3726	-0.4185
73	1e+13	NDD	-0.0804	-0.5081	-0.4277
74	1e+13	NDD	-0.0386	-0.4827	-0.4441
75	1e+13	NDD	-0.0431	-0.4791	-0.436

NDD vs Post - Pre Exposure Delta

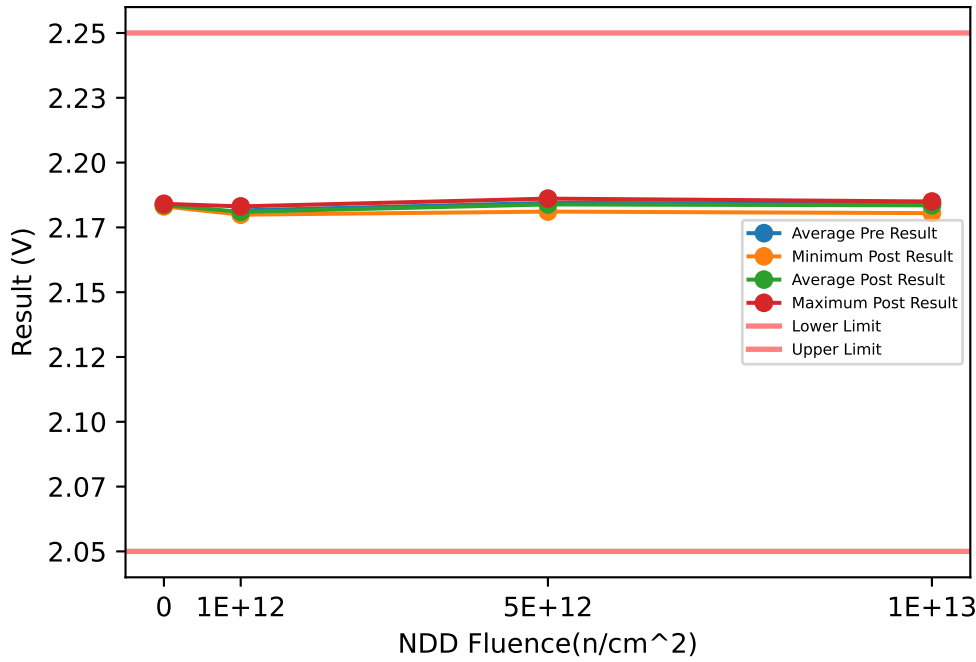


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.1511	-0.051067	0.0539	0.10259				
1e+12	-0.0648	0.0562	0.2045	0.12626	-0.1302	0.003725	0.1566	0.12776	-0.0654	-0.052475	-0.0359	0.013296
5e+12	-0.0999	0.023225	0.1518	0.1076	-0.3482	-0.21288	-0.0598	0.12254	-0.2483	-0.2361	-0.2116	0.016592
1e+13	-0.0804	-0.02905	0.0459	0.053363	-0.5081	-0.46063	-0.3726	0.060086	-0.4441	-0.43157	-0.4185	0.010991

Device Test: 15.7 OUTPUT|VLDO/VLDO/2.25/0.6//10//@V_VLDO_VIN_2p25

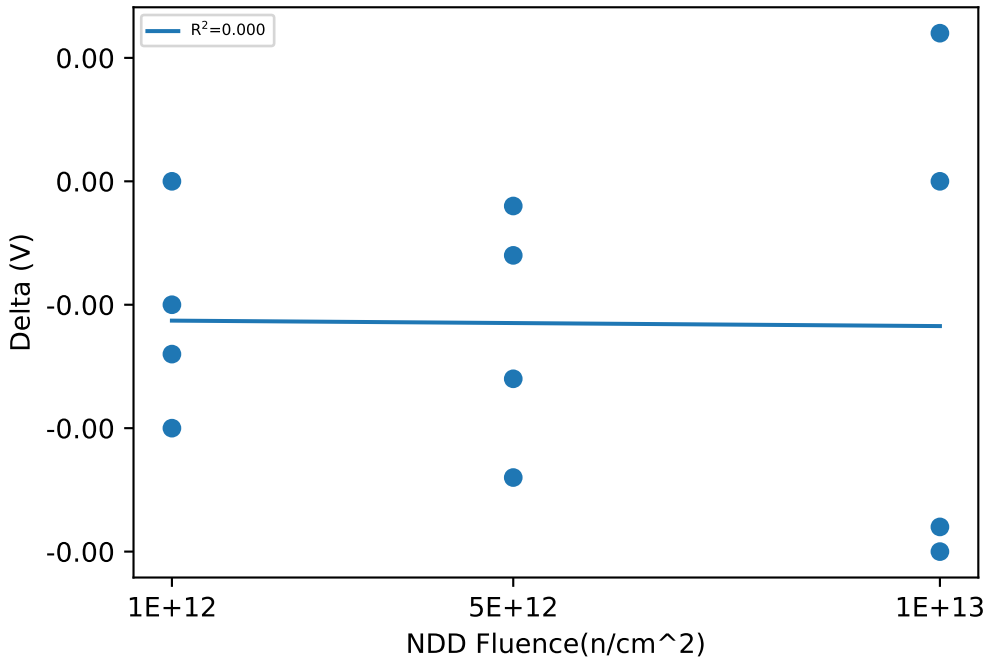
NDD vs Result Stats



Test Results (Lower Limit = 2.05, Upper Limit = 2.25 (V))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		2.1837	
55	0	CORRELATION		2.1831	
56	0	CORRELATION		2.1841	
64	1e+12	NDD	2.1836	2.1831	-0.0005
65	1e+12	NDD	2.1806	2.1799	-0.0007
66	1e+12	NDD	2.1803	2.1803	0
67	1e+12	NDD	2.1817	2.1807	-0.001
68	5e+12	NDD	2.1864	2.1861	-0.0003
69	5e+12	NDD	2.1829	2.1821	-0.0008
70	5e+12	NDD	2.1862	2.1861	-0.0001
71	5e+12	NDD	2.1823	2.1811	-0.0012
72	1e+13	NDD	2.1838	2.1844	0.0006
73	1e+13	NDD	2.1855	2.1841	-0.0014
74	1e+13	NDD	2.185	2.185	0
75	1e+13	NDD	2.182	2.1805	-0.0015

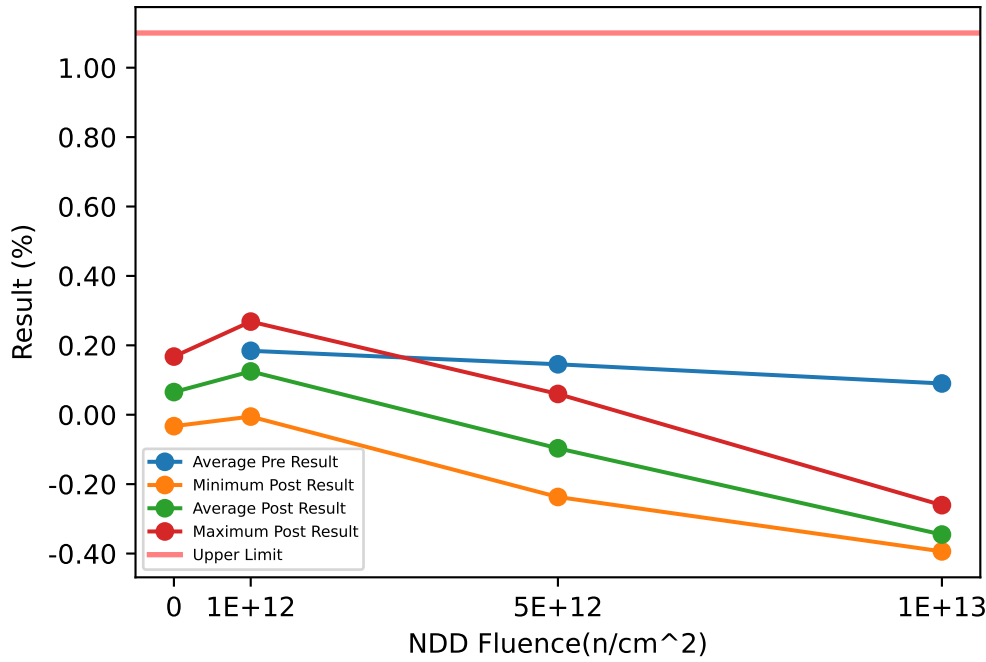
NDD vs Post - Pre Exposure Delta



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					2.1831	2.1836	2.1841	0.00050332				
1e+12	2.1803	2.1816	2.1836	0.0014933	2.1799	2.181	2.1831	0.0014376	-0.001	-0.00055	0	0.00042032
5e+12	2.1823	2.1845	2.1864	0.0021517	2.1811	2.1839	2.1861	0.00263	-0.0012	-0.0006	-0.0001	0.00049666
1e+13	2.182	2.1841	2.1855	0.0015564	2.1805	2.1835	2.185	0.0020347	-0.0015	-0.000575	0.0006	0.0010404

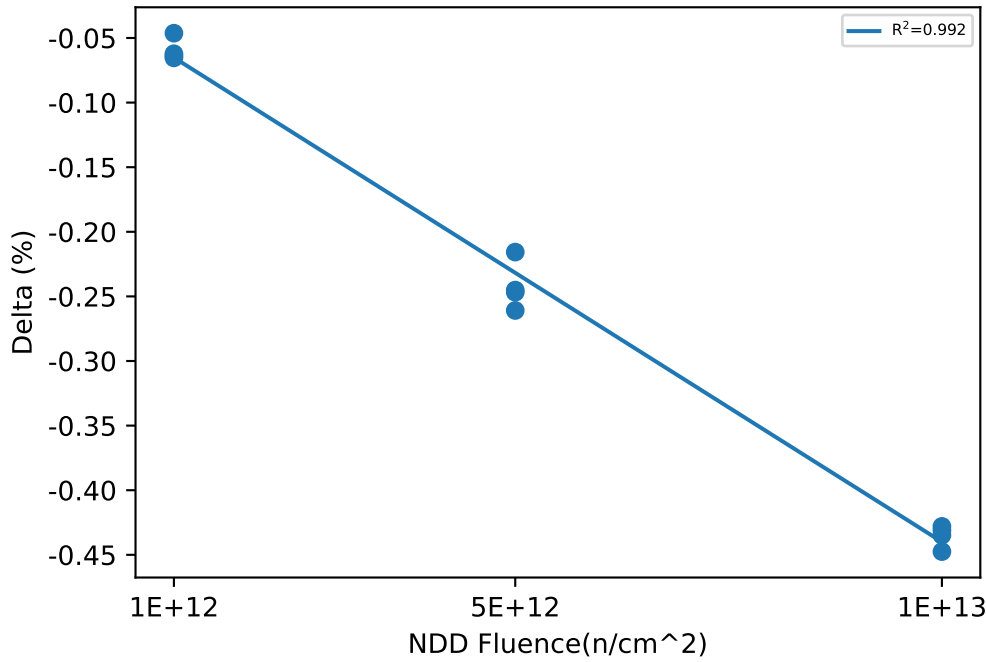
NDD vs Result Stats



Test Results (Upper Limit = 1.1 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.0612	
55	0	CORRELATION		-0.0329	
56	0	CORRELATION		0.1676	
64	1e+12	NDD	0.3338	0.2684	-0.0654
65	1e+12	NDD	0.0585	-0.0053	-0.0638
66	1e+12	NDD	0.1007	0.0544	-0.0463
67	1e+12	NDD	0.2439	0.1817	-0.0622
68	5e+12	NDD	0.0239	-0.237	-0.2609
69	5e+12	NDD	0.1026	-0.1442	-0.2468
70	5e+12	NDD	0.1794	-0.0657	-0.2451
71	5e+12	NDD	0.2756	0.0599	-0.2157
72	1e+13	NDD	0.1705	-0.2606	-0.4311
73	1e+13	NDD	0.0342	-0.3938	-0.428
74	1e+13	NDD	0.0806	-0.3669	-0.4475
75	1e+13	NDD	0.0751	-0.3597	-0.4348

NDD vs Post - Pre Exposure Delta

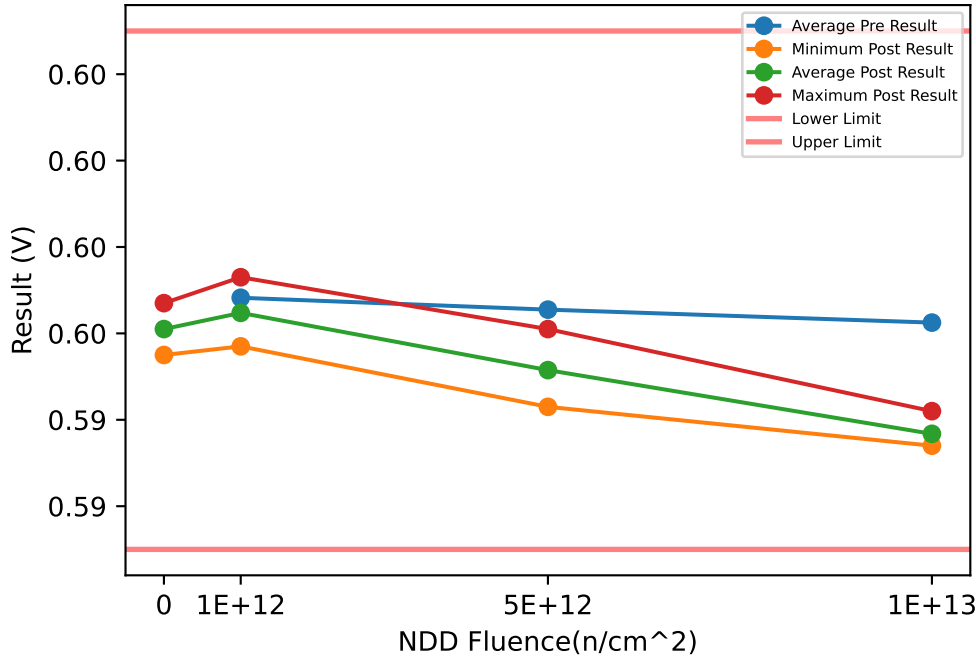


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.0329	0.0653	0.1676	0.10031				
1e+12	0.0585	0.18422	0.3338	0.12743	-0.0053	0.1248	0.2684	0.12348	-0.0654	-0.059425	-0.0463	0.008847
5e+12	0.0239	0.14538	0.2756	0.10755	-0.237	-0.09675	0.0599	0.12573	-0.2609	-0.24212	-0.2157	0.018987
1e+13	0.0342	0.0901	0.1705	0.057458	-0.3938	-0.34525	-0.2606	0.05831	-0.4475	-0.43535	-0.428	0.0085637

Device Test: 15.74 FB|VFB/FB/14/13.9//10//@VFB_25C

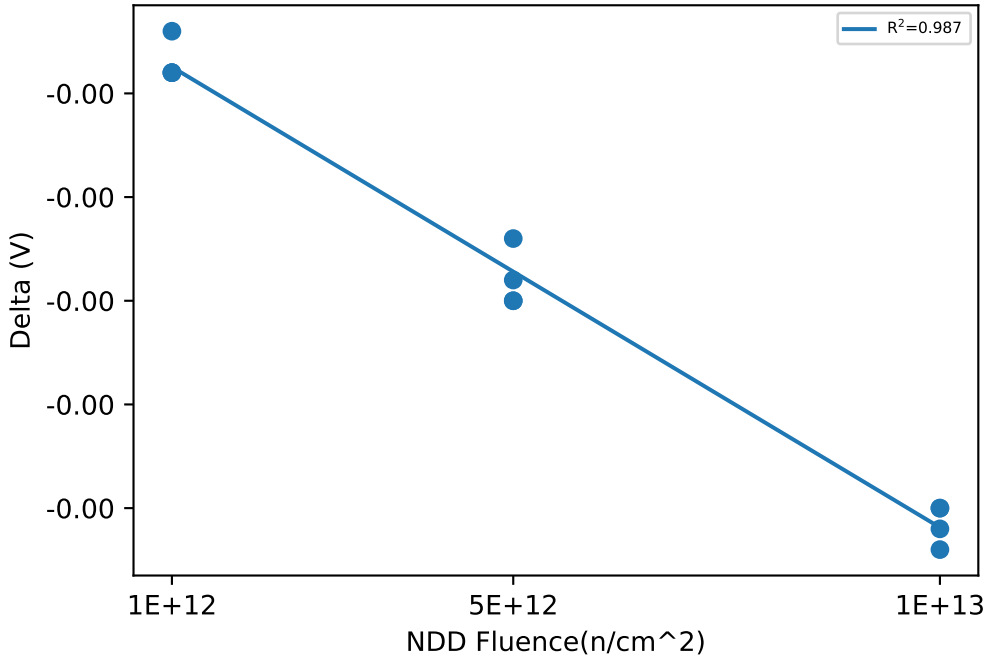
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5961	
55	0	CORRELATION		0.5955	
56	0	CORRELATION		0.5967	
64	1e+12	NDD	0.5977	0.5973	-0.0004
65	1e+12	NDD	0.5961	0.5957	-0.0004
66	1e+12	NDD	0.5963	0.5961	-0.0002
67	1e+12	NDD	0.5972	0.5968	-0.0004
68	5e+12	NDD	0.5958	0.5943	-0.0015
69	5e+12	NDD	0.5963	0.5949	-0.0014
70	5e+12	NDD	0.5968	0.5953	-0.0015
71	5e+12	NDD	0.5973	0.5961	-0.0012
72	1e+13	NDD	0.5967	0.5942	-0.0025
73	1e+13	NDD	0.5959	0.5934	-0.0025
74	1e+13	NDD	0.5962	0.5935	-0.0027
75	1e+13	NDD	0.5962	0.5936	-0.0026

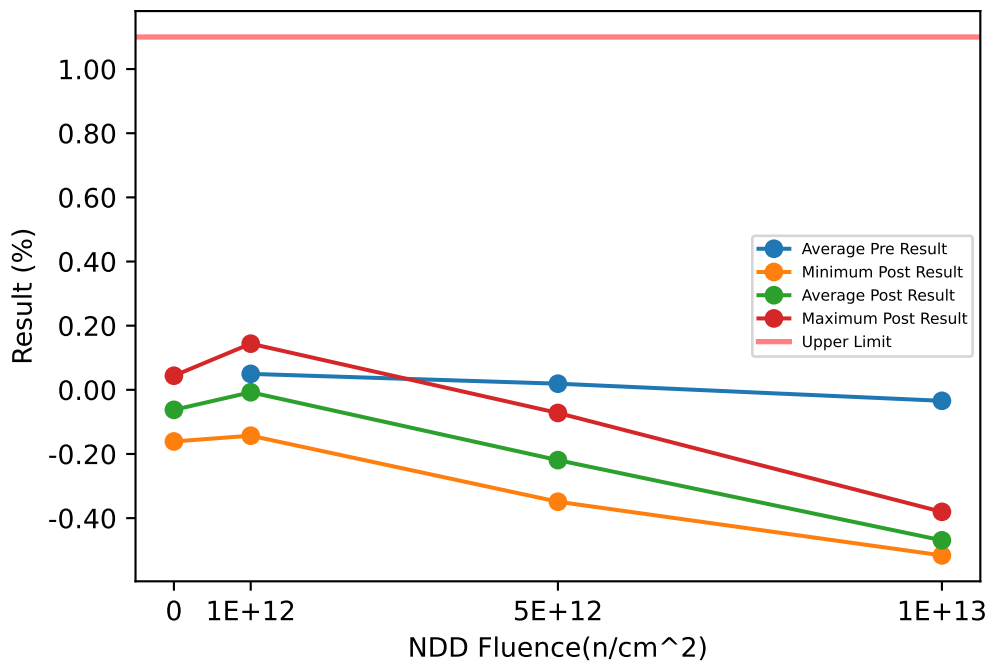
NDD vs Post - Pre Exposure Delta



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					0.5955	0.5961	0.5967	0.0006				
1e+12	0.5961	0.59682	0.5977	0.00075443	0.5957	0.59647	0.5973	0.00071356	-0.0004	-0.00035	-0.0002	0.0001
5e+12	0.5958	0.59655	0.5973	0.0006455	0.5943	0.59515	0.5961	0.00075498	-0.0015	-0.0014	-0.0012	0.00014142
1e+13	0.5959	0.59625	0.5967	0.00033166	0.5934	0.59367	0.5942	0.0003594	-0.0027	-0.002575	-0.0025	9.5743e-05

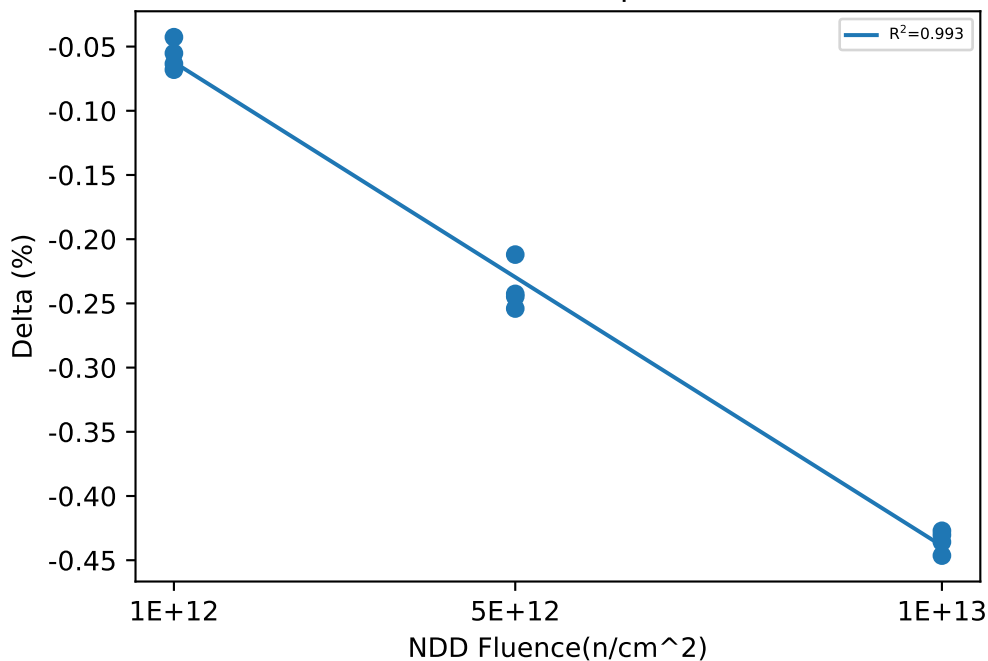
NDD vs Result Stats



Test Results (Upper Limit = 1.1 (%))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		-0.0701	
55	0	CORRELATION		-0.161	
56	0	CORRELATION		0.0439	
64	1e+12	NDD	0.2073	0.1439	-0.0634
65	1e+12	NDD	-0.075	-0.143	-0.068
66	1e+12	NDD	-0.0333	-0.076	-0.0427
67	1e+12	NDD	0.0999	0.0447	-0.0552
68	5e+12	NDD	-0.0949	-0.3489	-0.254
69	5e+12	NDD	-0.0256	-0.2682	-0.2426
70	5e+12	NDD	0.0572	-0.1875	-0.2447
71	5e+12	NDD	0.1399	-0.0721	-0.212
72	1e+13	NDD	0.0467	-0.3804	-0.4271
73	1e+13	NDD	-0.0859	-0.5162	-0.4303
74	1e+13	NDD	-0.0427	-0.4891	-0.4464
75	1e+13	NDD	-0.0552	-0.491	-0.4358

NDD vs Post - Pre Exposure Delta

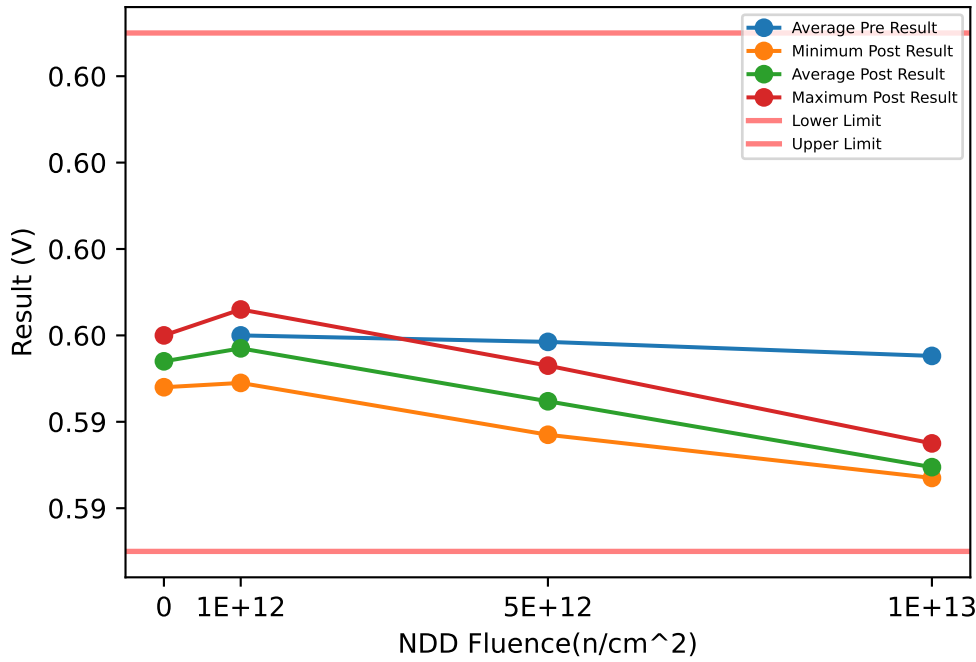


Test Statistics (%)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					-0.161	-0.0624	0.0439	0.10267				
1e+12	-0.075	0.049725	0.2073	0.12884	-0.143	-0.0076	0.1439	0.12741	-0.068	-0.057325	-0.0427	0.011095
5e+12	-0.0949	0.01915	0.1399	0.10172	-0.3489	-0.21918	-0.0721	0.11813	-0.254	-0.23833	-0.212	0.018236
1e+13	-0.0859	-0.034275	0.0467	0.056953	-0.5162	-0.46918	-0.3804	0.060458	-0.4464	-0.4349	-0.4271	0.0084668

Device Test: 15.79 FB|VFB/FB/14/13.3//2000//@VFB_25C

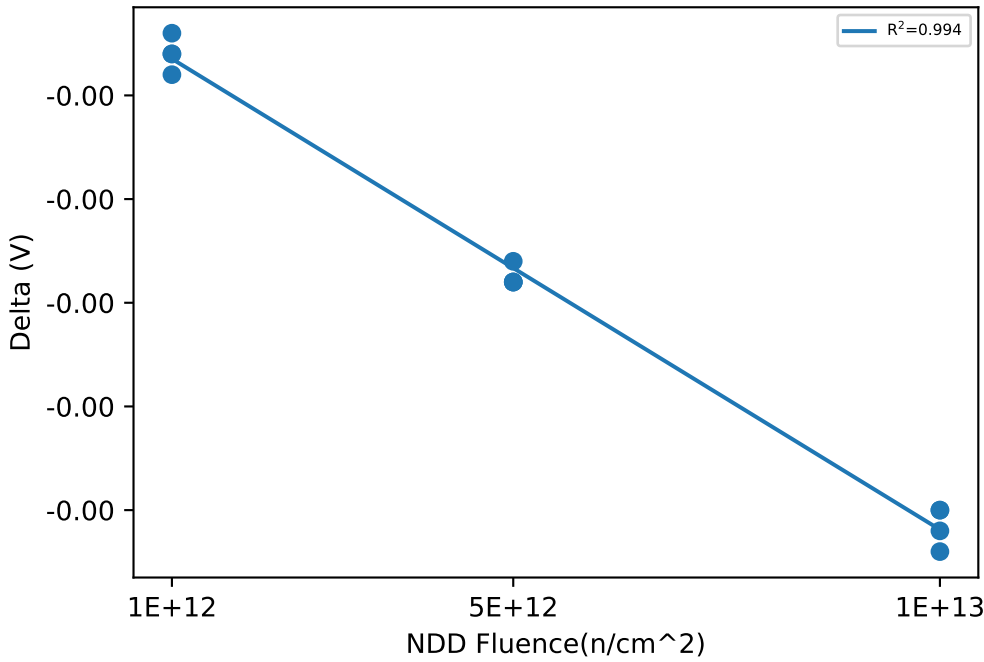
NDD vs Result Stats



Test Results (Lower Limit = 0.591, Upper Limit = 0.603 (V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.5954	
55	0	CORRELATION		0.5948	
56	0	CORRELATION		0.596	
64	1e+12	NDD	0.5969	0.5966	-0.0003
65	1e+12	NDD	0.5953	0.5949	-0.0004
66	1e+12	NDD	0.5955	0.5953	-0.0002
67	1e+12	NDD	0.5963	0.596	-0.0003
68	5e+12	NDD	0.5951	0.5937	-0.0014
69	5e+12	NDD	0.5956	0.5942	-0.0014
70	5e+12	NDD	0.5961	0.5947	-0.0014
71	5e+12	NDD	0.5966	0.5953	-0.0013
72	1e+13	NDD	0.596	0.5935	-0.0025
73	1e+13	NDD	0.5952	0.5927	-0.0025
74	1e+13	NDD	0.5955	0.5928	-0.0027
75	1e+13	NDD	0.5954	0.5928	-0.0026

NDD vs Post - Pre Exposure Delta

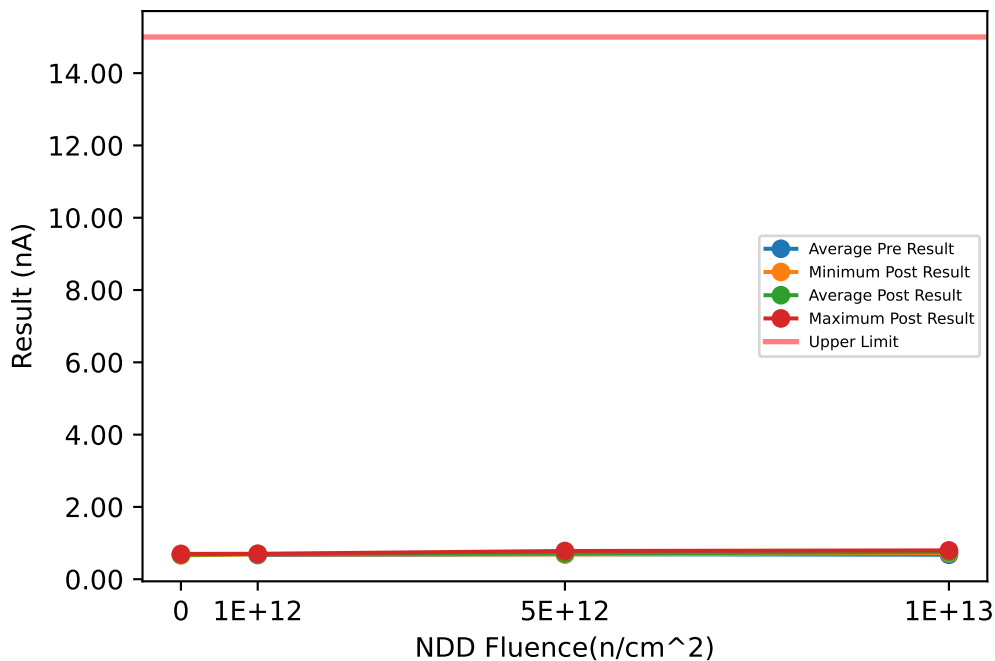


Test Statistics (V)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					0.5948	0.5954	0.596	0.0006				
1e+12	0.5953	0.596	0.5969	0.00073937	0.5949	0.5957	0.5966	0.00075277	-0.0004	-0.0003	-0.0002	8.165e-05
5e+12	0.5951	0.59585	0.5966	0.0006455	0.5937	0.59447	0.5953	0.00068496	-0.0014	-0.001375	-0.0013	5e-05
1e+13	0.5952	0.59552	0.596	0.00034034	0.5927	0.59295	0.5935	0.00036968	-0.0027	-0.002575	-0.0025	9.5743e-05

Device Test: 15.80 LEAK|CURRENT/FB/5/////@I_FB

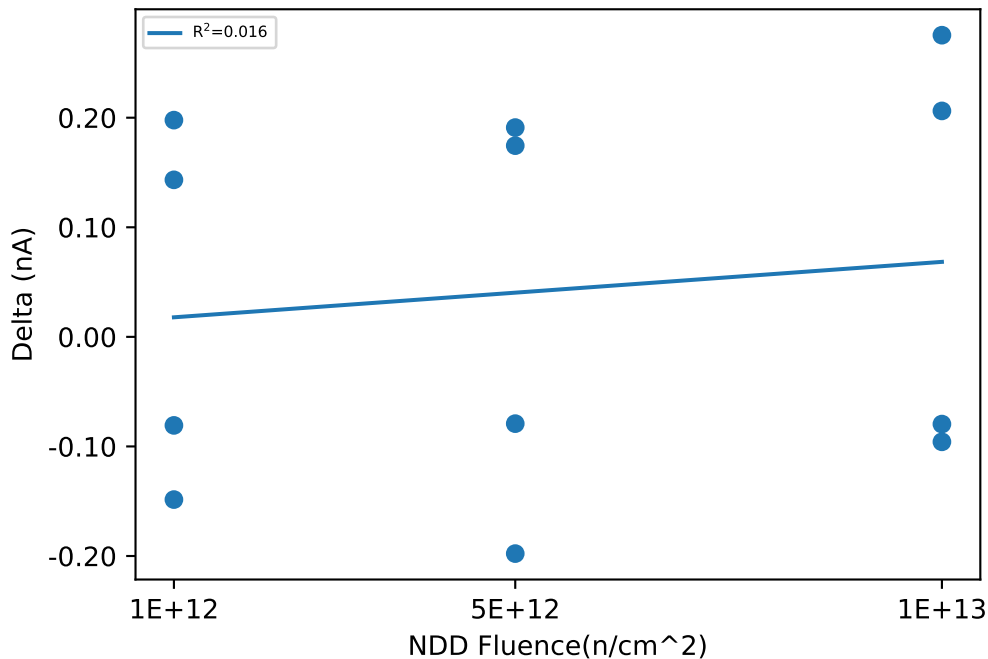
NDD vs Result Stats



Test Results (Upper Limit = 15.0 (nA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.7004	
55	0	CORRELATION		0.6751	
56	0	CORRELATION		0.6589	
64	1e+12	NDD	0.8508	0.7023	-0.1485
65	1e+12	NDD	0.4951	0.6929	0.1978
66	1e+12	NDD	0.7846	0.7038	-0.0808
67	1e+12	NDD	0.5434	0.6867	0.1433
68	5e+12	NDD	0.891	0.6932	-0.1978
69	5e+12	NDD	0.5047	0.6957	0.191
70	5e+12	NDD	0.8601	0.7809	-0.0792
71	5e+12	NDD	0.5097	0.6842	0.1745
72	1e+13	NDD	0.8477	0.7681	-0.0796
73	1e+13	NDD	0.5225	0.7978	0.2753
74	1e+13	NDD	0.8208	0.725	-0.0958
75	1e+13	NDD	0.5163	0.7225	0.2062

NDD vs Post - Pre Exposure Delta

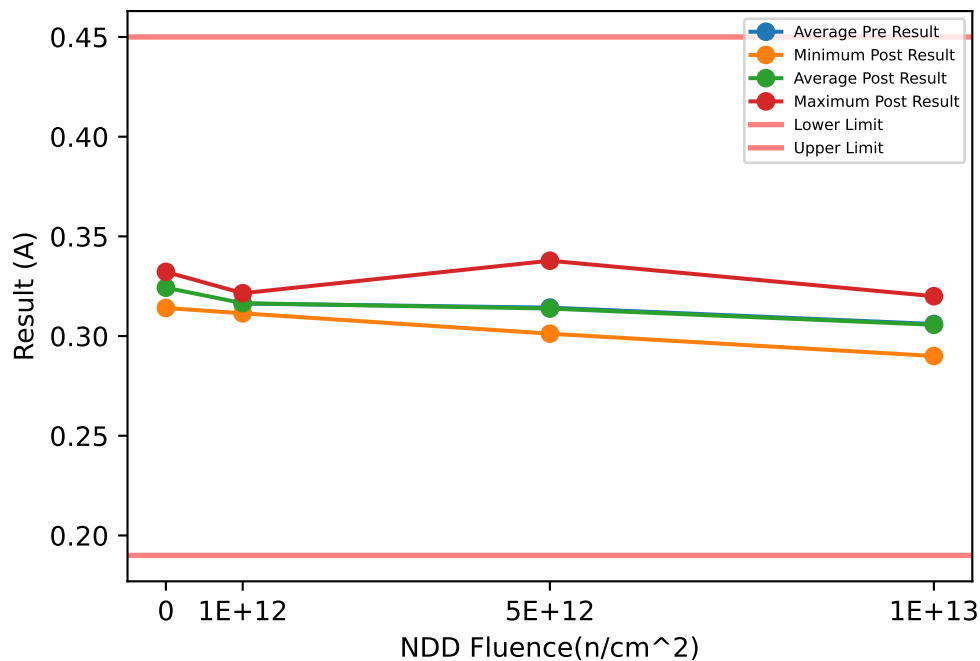


Test Statistics (nA)

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					0.6589	0.67813	0.7004	0.020916				
1e+12	0.4951	0.66847	0.8508	0.17553	0.6867	0.69642	0.7038	0.008081	-0.1485	0.02795	0.1978	0.16844
5e+12	0.5047	0.69138	0.891	0.21305	0.6842	0.7135	0.7809	0.045204	-0.1978	0.022125	0.191	0.19181
1e+13	0.5163	0.67683	0.8477	0.18213	0.7225	0.75335	0.7978	0.03628	-0.0958	0.076525	0.2753	0.19183

Device Test: 16.1 THRESHOLD|CL_MIN/CL/3.3/////@I_LIM_MIN

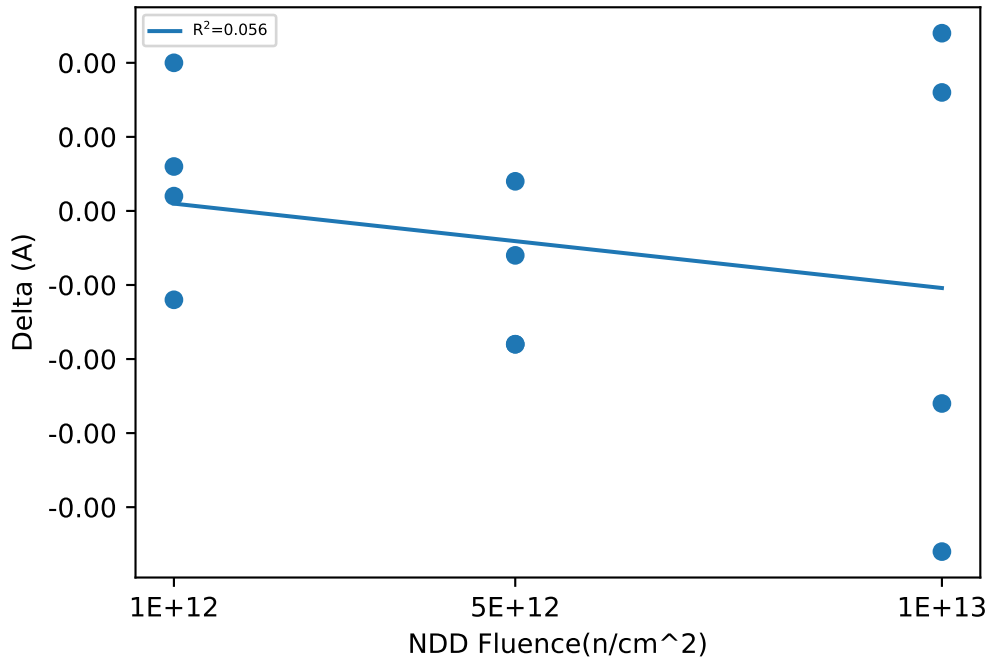
NDD vs Result Stats



Test Results (Lower Limit = 0.19, Upper Limit = 0.45 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.3141	
55	0	CORRELATION		0.3322	
56	0	CORRELATION		0.3265	
64	1e+12	NDD	0.3104	0.3114	0.001
65	1e+12	NDD	0.3212	0.3215	0.0003
66	1e+12	NDD	0.3189	0.3183	-0.0006
67	1e+12	NDD	0.3147	0.3148	0.0001
68	5e+12	NDD	0.3025	0.3027	0.0002
69	5e+12	NDD	0.3015	0.3012	-0.0003
70	5e+12	NDD	0.3387	0.3378	-0.0009
71	5e+12	NDD	0.3144	0.3135	-0.0009
72	1e+13	NDD	0.3173	0.315	-0.0023
73	1e+13	NDD	0.2913	0.29	-0.0013
74	1e+13	NDD	0.2964	0.2976	0.0012
75	1e+13	NDD	0.3192	0.32	0.0008

NDD vs Post - Pre Exposure Delta

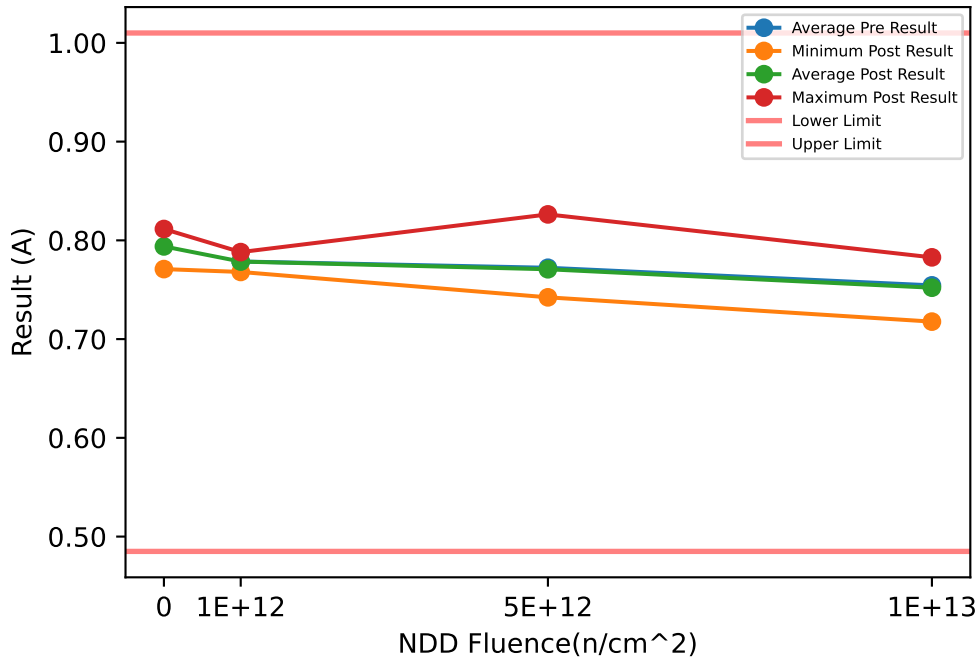


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					0.3141	0.32427	0.3322	0.0092544				
1e+12	0.3104	0.3163	0.3212	0.0047659	0.3114	0.3165	0.3215	0.0043642	-0.0006	0.0002	0.001	0.00065828
5e+12	0.3015	0.31427	0.3387	0.017306	0.3012	0.3138	0.3378	0.016912	-0.0009	-0.000475	0.0002	0.00053151
1e+13	0.2913	0.30605	0.3192	0.014261	0.29	0.30565	0.32	0.014178	-0.0023	-0.0004	0.0012	0.0016753

Device Test: 16.2 THRESHOLD|CL_SMALL/CL/3.3/////@I_LIM_SMALL

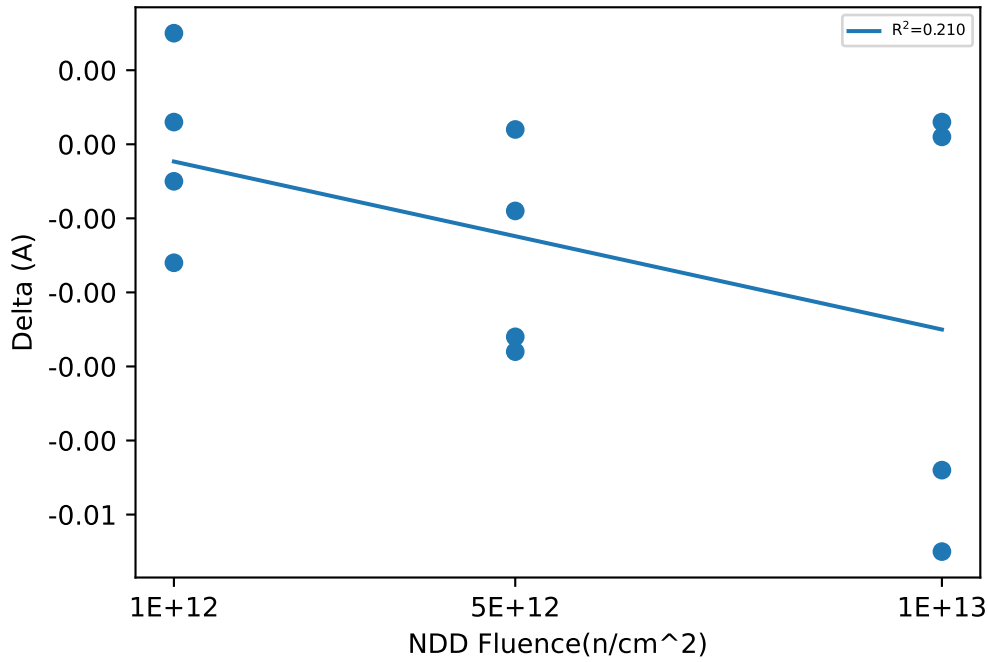
NDD vs Result Stats



Test Results (Lower Limit = 0.485, Upper Limit = 1.01 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.7709	
55	0	CORRELATION		0.8115	
56	0	CORRELATION		0.7992	
64	1e+12	NDD	0.7665	0.768	0.0015
65	1e+12	NDD	0.7878	0.7881	0.0003
66	1e+12	NDD	0.7822	0.7806	-0.0016
67	1e+12	NDD	0.7779	0.7774	-0.0005
68	5e+12	NDD	0.7421	0.7423	0.0002
69	5e+12	NDD	0.7439	0.743	-0.0009
70	5e+12	NDD	0.8291	0.8263	-0.0028
71	5e+12	NDD	0.7739	0.7713	-0.0026
72	1e+13	NDD	0.7762	0.7707	-0.0055
73	1e+13	NDD	0.7221	0.7177	-0.0044
74	1e+13	NDD	0.7367	0.737	0.0003
75	1e+13	NDD	0.7827	0.7828	0.0001

NDD vs Post - Pre Exposure Delta

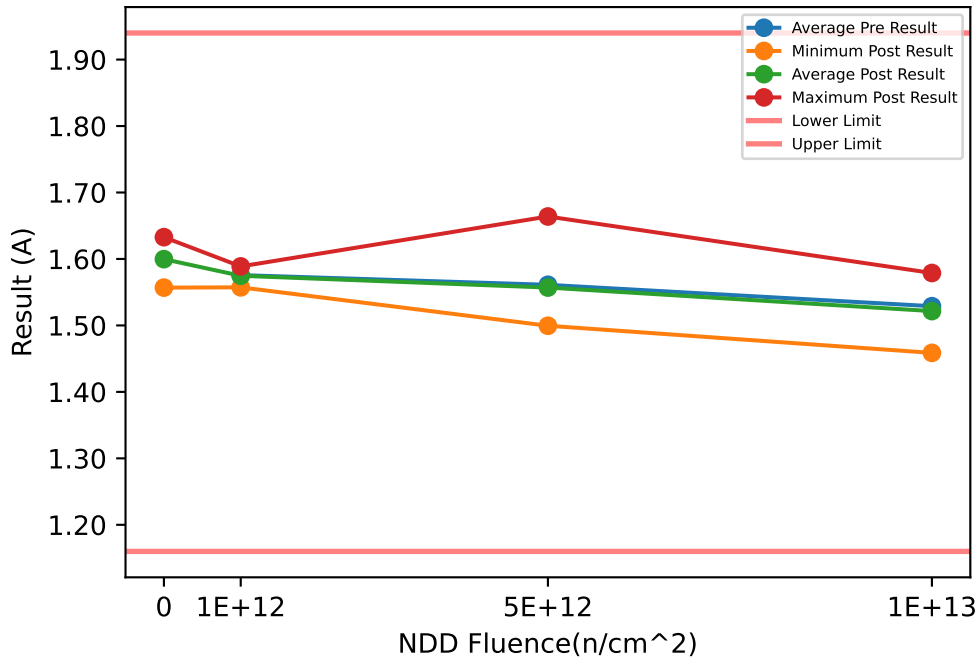


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					0.7709	0.79387	0.8115	0.020819				
1e+12	0.7665	0.7786	0.7878	0.0090277	0.768	0.77853	0.7881	0.0083272	-0.0016	-7.5e-05	0.0015	0.0013074
5e+12	0.7421	0.77225	0.8291	0.040609	0.7423	0.77072	0.8263	0.039436	-0.0028	-0.001525	0.0002	0.0014315
1e+13	0.7221	0.75443	0.7827	0.029624	0.7177	0.75205	0.7828	0.029999	-0.0055	-0.002375	0.0003	0.0030082

Device Test: 16.3 THRESHOLD|CL_LARGE/CL/3.3/////@I_LIM_LARGE

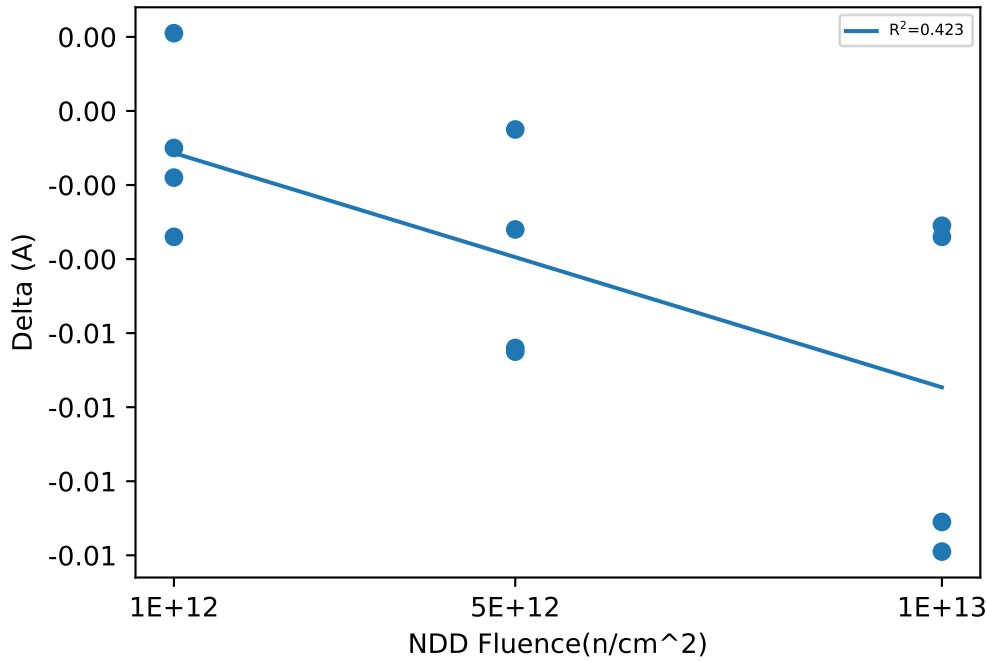
NDD vs Result Stats



Test Results (Lower Limit = 1.16, Upper Limit = 1.94 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		1.5569	
55	0	CORRELATION		1.6328	
56	0	CORRELATION		1.6095	
64	1e+12	NDD	1.5552	1.5573	0.0021
65	1e+12	NDD	1.5898	1.5888	-0.001
66	1e+12	NDD	1.5786	1.5752	-0.0034
67	1e+12	NDD	1.5793	1.5775	-0.0018
68	5e+12	NDD	1.5	1.4995	-0.0005
69	5e+12	NDD	1.5091	1.5059	-0.0032
70	5e+12	NDD	1.6703	1.6639	-0.0064
71	5e+12	NDD	1.5651	1.5586	-0.0065
72	1e+13	NDD	1.5621	1.5502	-0.0119
73	1e+13	NDD	1.4698	1.4587	-0.0111
74	1e+13	NDD	1.5016	1.4985	-0.0031
75	1e+13	NDD	1.5823	1.5789	-0.0034

NDD vs Post - Pre Exposure Delta

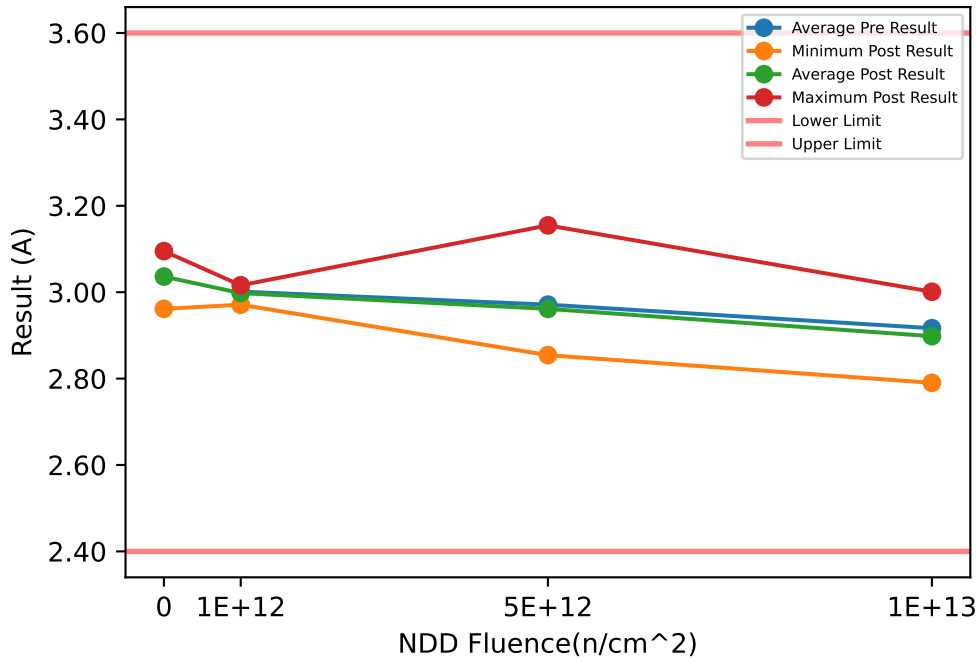


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					1.5569	1.5997	1.6328	0.038881				
1e+12	1.5552	1.5757	1.5898	0.014611	1.5573	1.5747	1.5888	0.013034	-0.0034	-0.001025	0.0021	0.0023099
5e+12	1.5	1.5611	1.6703	0.078268	1.4995	1.557	1.6639	0.076043	-0.0065	-0.00415	-0.0005	0.0028758
1e+13	1.4698	1.529	1.5823	0.052255	1.4587	1.5216	1.5789	0.053514	-0.0119	-0.007375	-0.0031	0.0047759

Device Test: 16.4 THRESHOLD|CL_MAX/CL/3.3/////@I_LIM_MAX

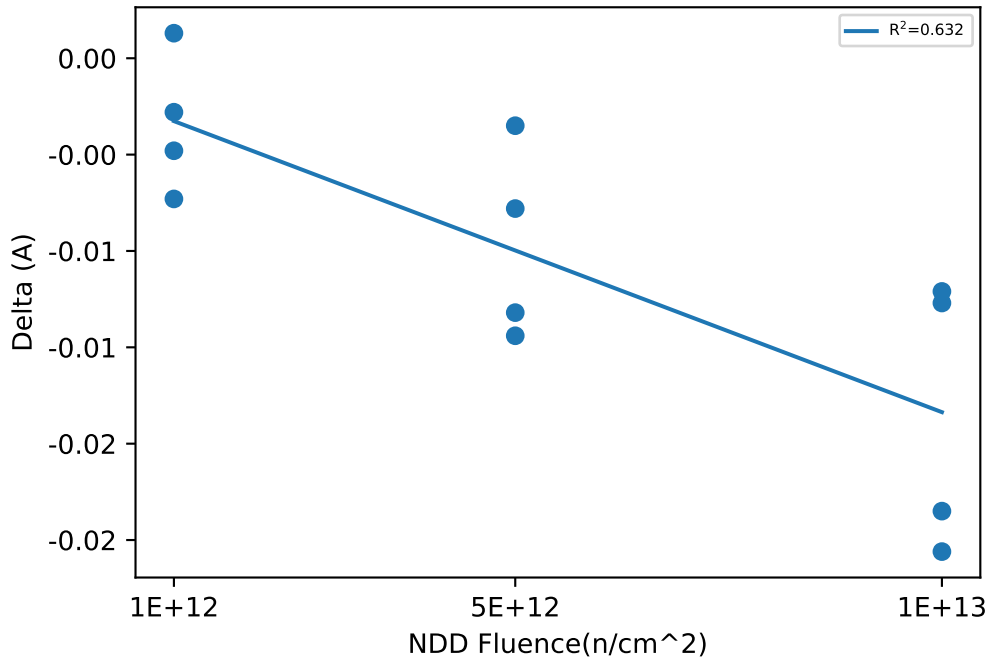
NDD vs Result Stats



Test Results (Lower Limit = 2.4, Upper Limit = 3.6 (A))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		2.9615	
55	0	CORRELATION		3.0951	
56	0	CORRELATION		3.0518	
64	1e+12	NDD	2.9697	2.971	0.0013
65	1e+12	NDD	3.0188	3.016	-0.0028
66	1e+12	NDD	3.0004	2.9931	-0.0073
67	1e+12	NDD	3.0164	3.0116	-0.0048
68	5e+12	NDD	2.8578	2.8543	-0.0035
69	5e+12	NDD	2.8801	2.8723	-0.0078
70	5e+12	NDD	3.1691	3.1547	-0.0144
71	5e+12	NDD	2.9776	2.9644	-0.0132
72	1e+13	NDD	2.9612	2.9356	-0.0256
73	1e+13	NDD	2.8137	2.7902	-0.0235
74	1e+13	NDD	2.8785	2.8658	-0.0127
75	1e+13	NDD	3.0131	3.001	-0.0121

NDD vs Post - Pre Exposure Delta

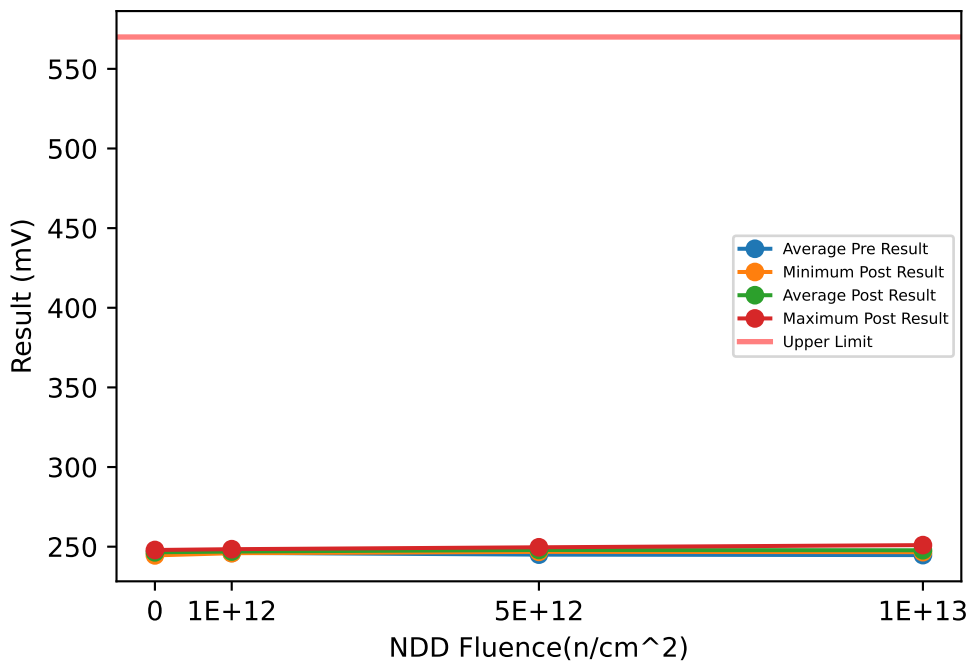


Test Statistics (A)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					2.9615	3.0361	3.0951	0.068164				
1e+12	2.9697	3.0013	3.0188	0.02261	2.971	2.9979	3.016	0.02051	-0.0073	-0.0034	0.0013	0.0036341
5e+12	2.8578	2.9711	3.1691	0.14185	2.8543	2.9614	3.1547	0.13758	-0.0144	-0.009725	-0.0035	0.005046
1e+13	2.8137	2.9166	3.0131	0.088207	2.7902	2.8982	3.001	0.090702	-0.0256	-0.018475	-0.0121	0.0070712

Device Test: 17.12 VIN|DROPOUT/OUT//2.25//1000//@VDO_1A_LV

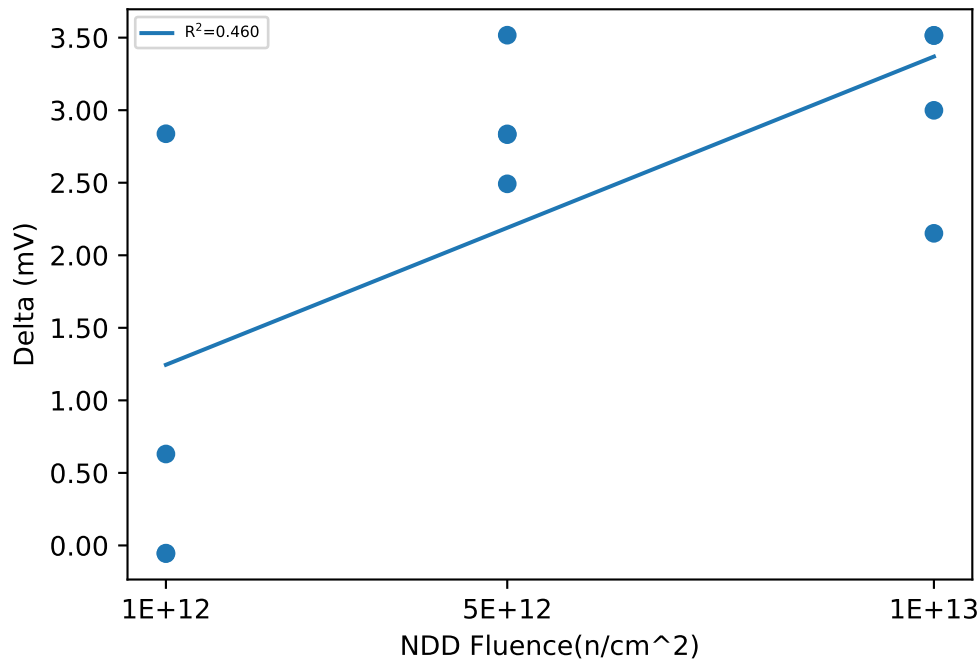
NDD vs Result Stats



Test Results (Upper Limit = 570.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		244.53	
55	0	CORRELATION		247.92	
56	0	CORRELATION		246.91	
64	1e+12	NDD	245.94	245.89	-0.0562
65	1e+12	NDD	245.6	248.43	2.8377
66	1e+12	NDD	247.64	247.59	-0.0531
67	1e+12	NDD	245.26	245.89	0.6301
68	5e+12	NDD	244.24	246.73	2.4924
69	5e+12	NDD	245.09	247.92	2.8367
70	5e+12	NDD	244.58	247.41	2.8313
71	5e+12	NDD	246.11	249.62	3.5169
72	1e+13	NDD	243.56	246.56	2.9991
73	1e+13	NDD	243.39	246.9	3.5142
74	1e+13	NDD	244.41	246.56	2.1513
75	1e+13	NDD	247.46	250.98	3.5162

NDD vs Post - Pre Exposure Delta

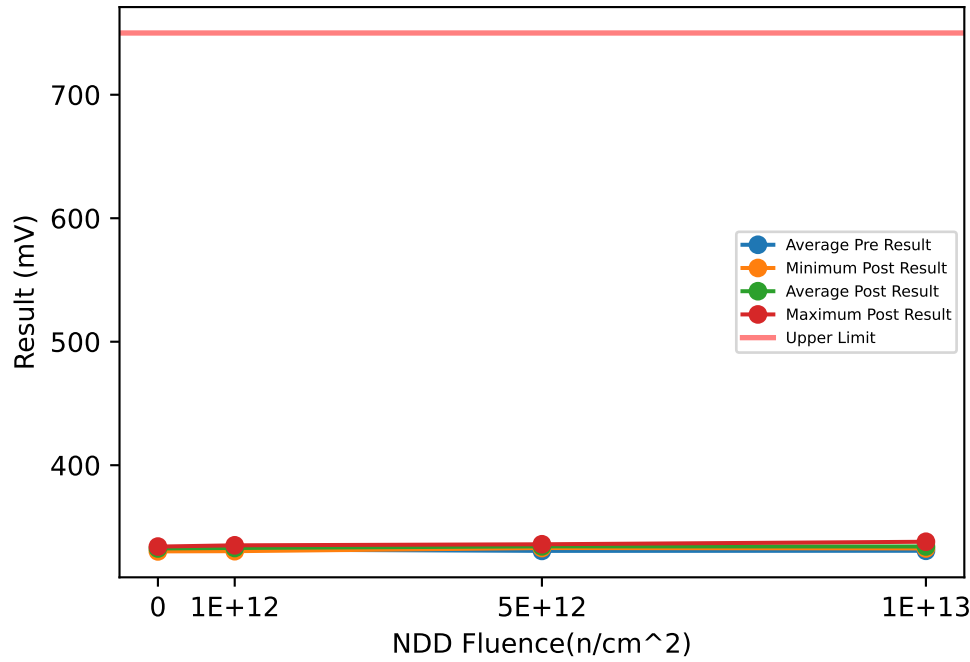


Test Statistics (mV)

Fluence(n/cm ²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					244.53	246.45	247.92	1.743				
1e+12	245.26	246.11	247.64	1.0574	245.89	246.95	248.43	1.273	-0.0562	0.83963	2.8377	1.3706
5e+12	244.24	245	246.11	0.81255	246.73	247.92	249.62	1.2334	2.4924	2.9193	3.5169	0.4297
1e+13	243.39	244.71	247.46	1.8909	246.56	247.75	250.98	2.1573	2.1513	3.0452	3.5162	0.64368

Device Test: 17.15 VIN|DROPOUT/OUT//2.5//1500//@VDO_1P5A_LV

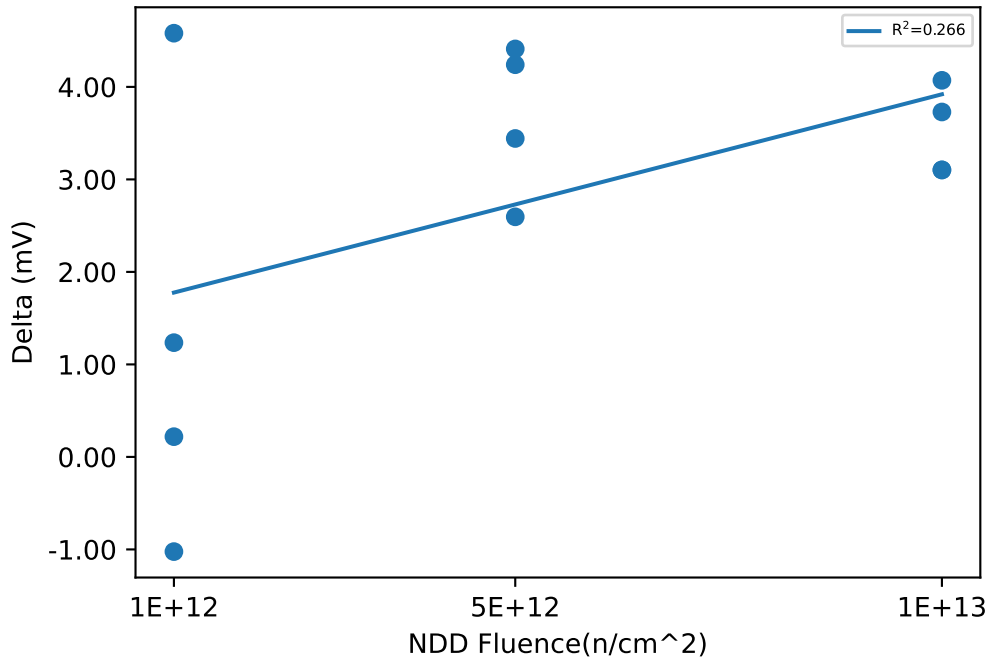
NDD vs Result Stats



Test Results (Upper Limit = 750.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		330.21	
55	0	CORRELATION		334.11	
56	0	CORRELATION		333.44	
64	1e+12	NDD	331.52	332.76	1.2352
65	1e+12	NDD	330.55	335.13	4.5805
66	1e+12	NDD	333.39	333.6	0.2189
67	1e+12	NDD	331.4	330.38	-1.0235
68	5e+12	NDD	330.33	332.92	2.5955
69	5e+12	NDD	330.21	334.45	4.2398
70	5e+12	NDD	330.33	333.77	3.4425
71	5e+12	NDD	331.57	335.98	4.4105
72	1e+13	NDD	329.48	332.58	3.1019
73	1e+13	NDD	329.19	332.92	3.7288
74	1e+13	NDD	330.16	333.26	3.1028
75	1e+13	NDD	333.95	338.02	4.0712

NDD vs Post - Pre Exposure Delta

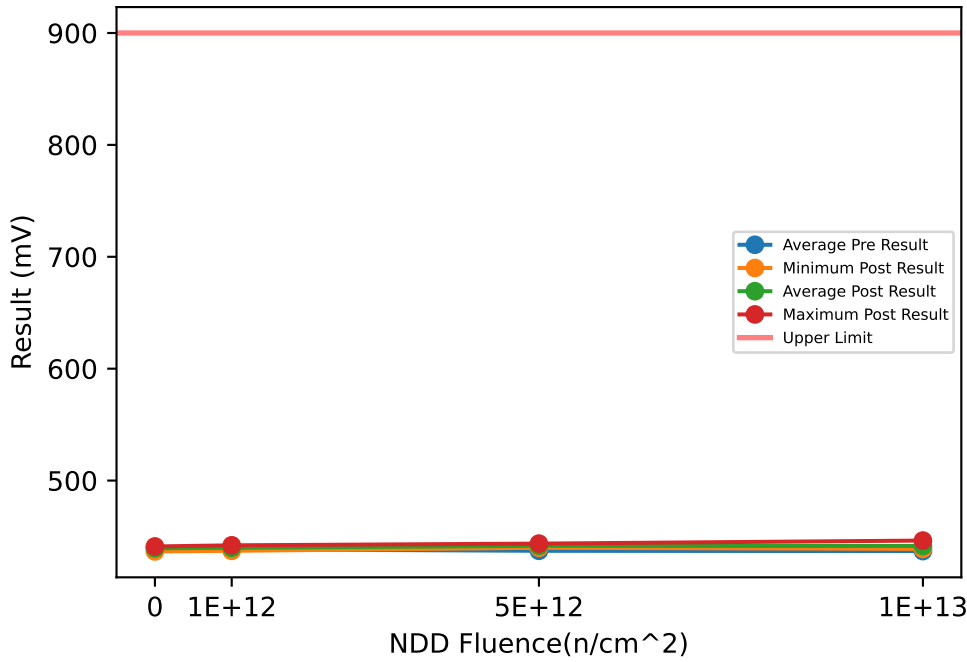


Test Statistics (mV)

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					330.21	332.59	334.11	2.087				
1e+12	330.55	331.72	333.39	1.1944	330.38	332.97	335.13	1.9869	-1.0235	1.2528	4.5805	2.4031
5e+12	330.21	330.61	331.57	0.64289	332.92	334.28	335.98	1.294	2.5955	3.6721	4.4105	0.83253
1e+13	329.19	330.69	333.95	2.2053	332.58	334.2	338.02	2.5628	3.1019	3.5012	4.0712	0.48127

Device Test: 17.18 VIN|DROPOUT/OUT//2.5//2000//@VDO_2A_LV

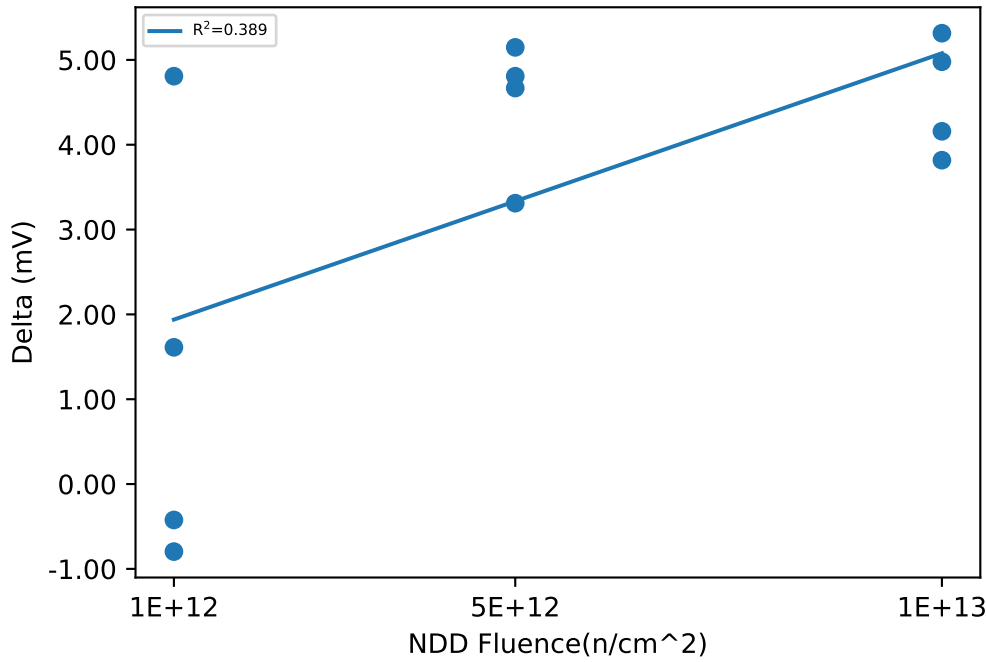
NDD vs Result Stats



Test Results (Upper Limit = 900.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		436.71	
55	0	CORRELATION		441.12	
56	0	CORRELATION		440.78	
64	1e+12	NDD	438.15	439.76	1.6119
65	1e+12	NDD	437.33	442.14	4.808
66	1e+12	NDD	440.87	440.44	-0.4234
67	1e+12	NDD	438.01	437.22	-0.7963
68	5e+12	NDD	436.62	439.93	3.3109
69	5e+12	NDD	437.33	442.14	4.8077
70	5e+12	NDD	436.45	441.12	4.668
71	5e+12	NDD	438.52	443.67	5.1477
72	1e+13	NDD	435.09	438.91	3.8178
73	1e+13	NDD	435.12	440.44	5.3148
74	1e+13	NDD	436.28	440.44	4.1584
75	1e+13	NDD	441.41	446.38	4.9784

NDD vs Post - Pre Exposure Delta

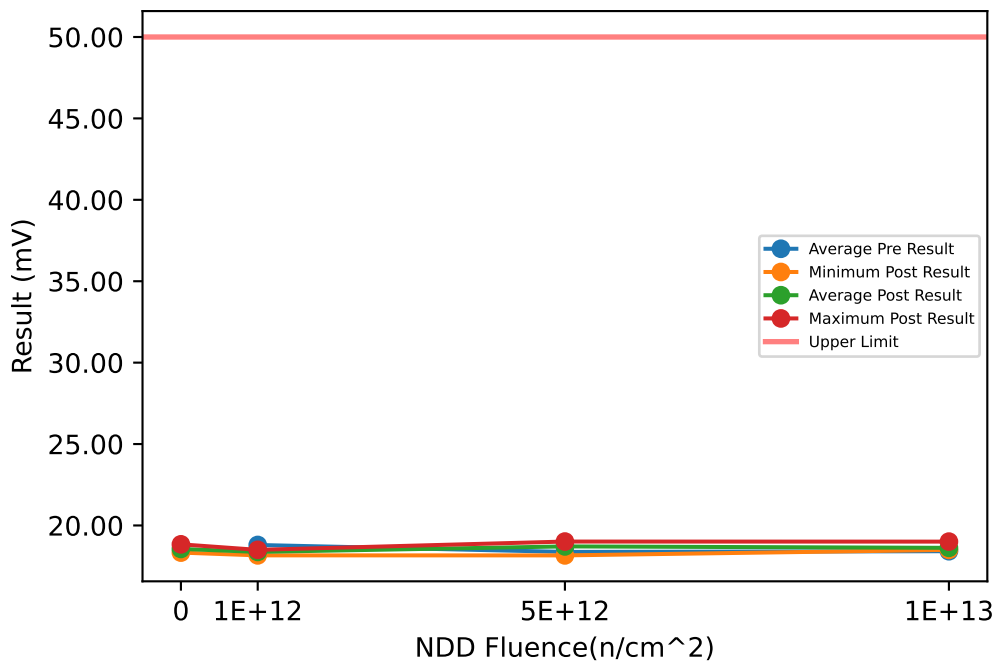


Test Statistics (mV)

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					436.71	439.54	441.12	2.4576				
1e+12	437.33	438.59	440.87	1.5585	437.22	439.89	442.14	2.0442	-0.7963	1.3	4.808	2.567
5e+12	436.45	437.23	438.52	0.94056	439.93	441.71	443.67	1.5847	3.3109	4.4836	5.1477	0.80732
1e+13	435.09	436.98	441.41	3.0043	438.91	441.54	446.38	3.3064	3.8178	4.5673	5.3148	0.69683

Device Test: 17.21 VIN|DROPOUT/OUT//3//100//@VDO_100MA

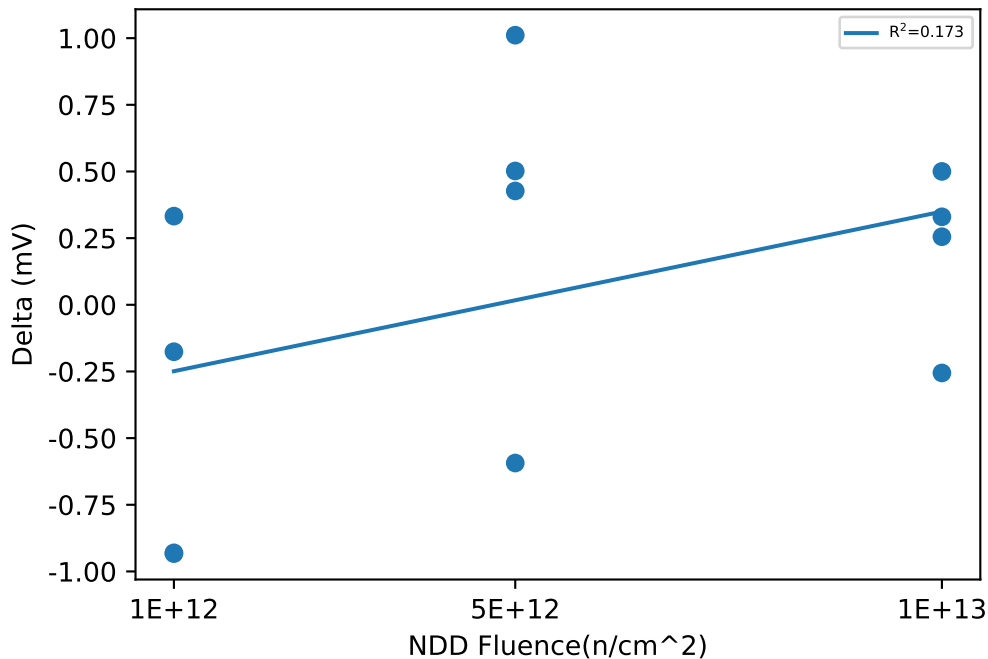
NDD vs Result Stats



Test Results (Upper Limit = 50.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		18.502	
55	0	CORRELATION		18.841	
56	0	CORRELATION		18.333	
64	1e+12	NDD	19.267	18.334	-0.9331
65	1e+12	NDD	18.677	18.502	-0.176
66	1e+12	NDD	19.432	18.502	-0.9303
67	1e+12	NDD	17.831	18.163	0.3326
68	5e+12	NDD	18.582	19.009	0.427
69	5e+12	NDD	18.168	18.67	0.5019
70	5e+12	NDD	18.755	18.161	-0.5934
71	5e+12	NDD	18	19.012	1.0111
72	1e+13	NDD	18.755	18.499	-0.2556
73	1e+13	NDD	18.168	18.498	0.33
74	1e+13	NDD	18.752	19.008	0.2554
75	1e+13	NDD	17.998	18.499	0.5002

NDD vs Post - Pre Exposure Delta

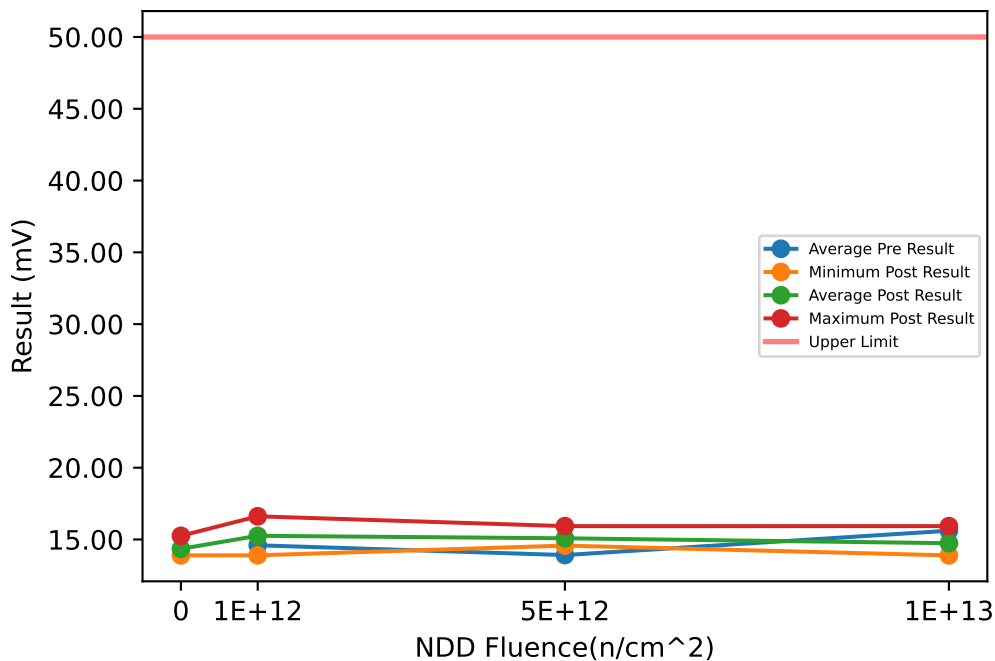


Test Statistics (mV)

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					18.333	18.559	18.841	0.25859				
1e+12	17.831	18.802	19.432	0.72409	18.163	18.375	18.502	0.16192	-0.9331	-0.4267	0.3326	0.61899
5e+12	18	18.376	18.755	0.35122	18.161	18.713	19.012	0.40124	-0.5934	0.33665	1.0111	0.67215
1e+13	17.998	18.418	18.755	0.39301	18.498	18.626	19.008	0.25455	-0.2556	0.2075	0.5002	0.32529

Device Test: 17.24 VIN|DROPOUT/OUT//13.3//100//@VDO_100MA

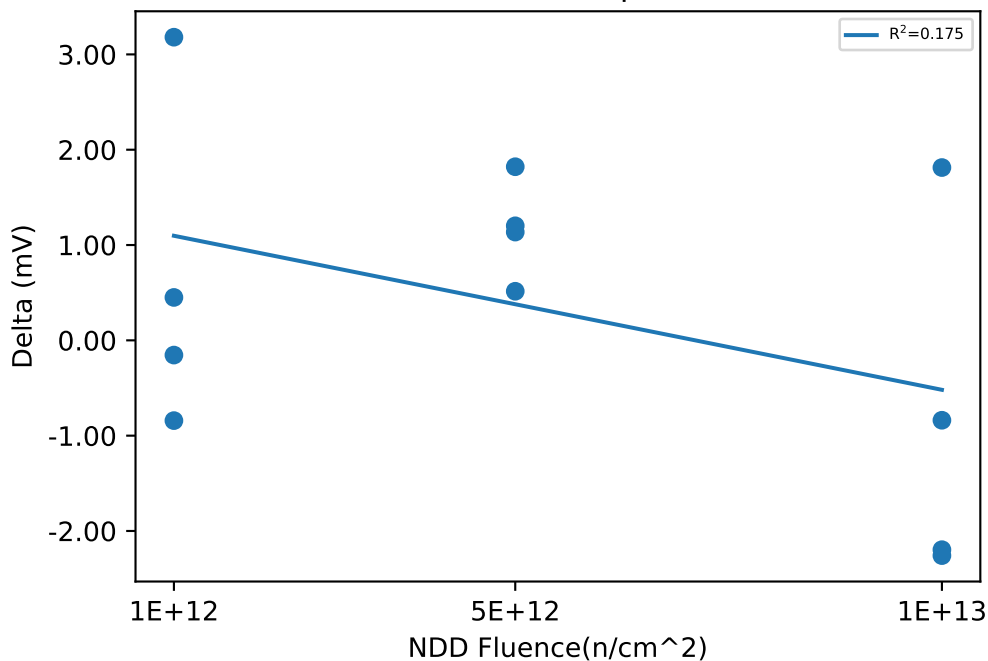
NDD vs Result Stats



Test Results (Upper Limit = 50.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		13.896	
55	0	CORRELATION		13.894	
56	0	CORRELATION		15.255	
64	1e+12	NDD	14.128	14.578	0.4502
65	1e+12	NDD	16.087	15.933	-0.1545
66	1e+12	NDD	13.432	16.613	3.1805
67	1e+12	NDD	14.738	13.896	-0.8421
68	5e+12	NDD	14.109	15.93	1.8215
69	5e+12	NDD	14.051	15.253	1.2017
70	5e+12	NDD	13.438	14.574	1.1359
71	5e+12	NDD	14.06	14.575	0.515
72	1e+13	NDD	14.117	15.93	1.813
73	1e+13	NDD	16.087	13.891	-2.1963
74	1e+13	NDD	16.149	13.891	-2.2583
75	1e+13	NDD	16.088	15.25	-0.8383

NDD vs Post - Pre Exposure Delta

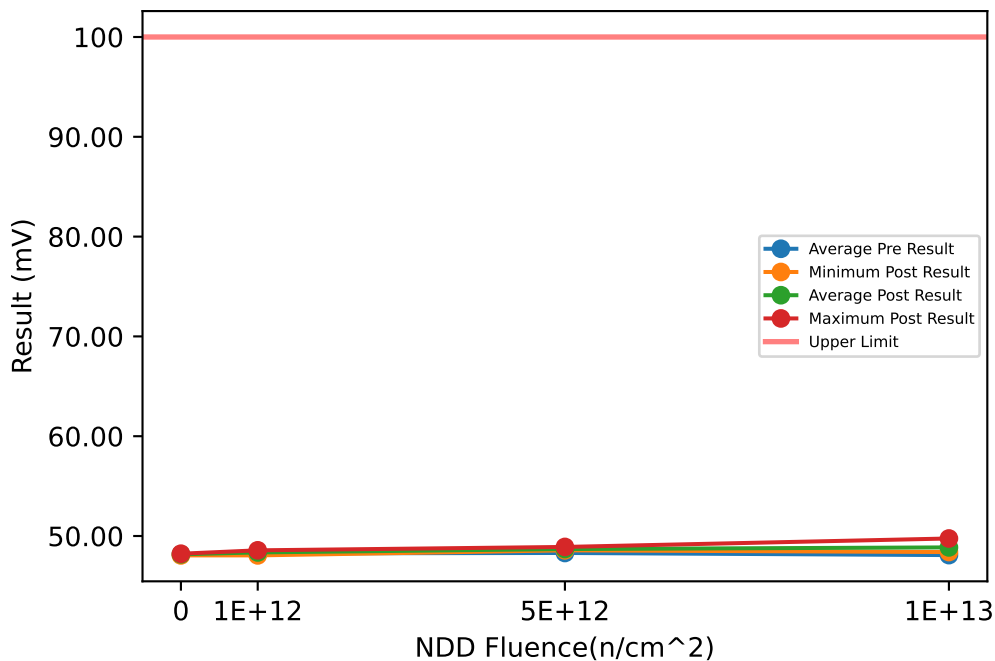


Test Statistics (mV)

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					13.894	14.348	15.255	0.78517				
1e+12	13.432	14.596	16.087	1.1281	13.896	15.255	16.613	1.2395	-0.8421	0.65853	3.1805	1.7623
5e+12	13.438	13.915	14.109	0.31858	14.574	15.083	15.93	0.64903	0.515	1.1685	1.8215	0.53405
1e+13	14.117	15.611	16.149	0.99607	13.891	14.741	15.93	1.0194	-2.2583	-0.86998	1.813	1.9049

Device Test: 17.27 VIN|DROPOUT/OUT//3//250//@VDO_250MA

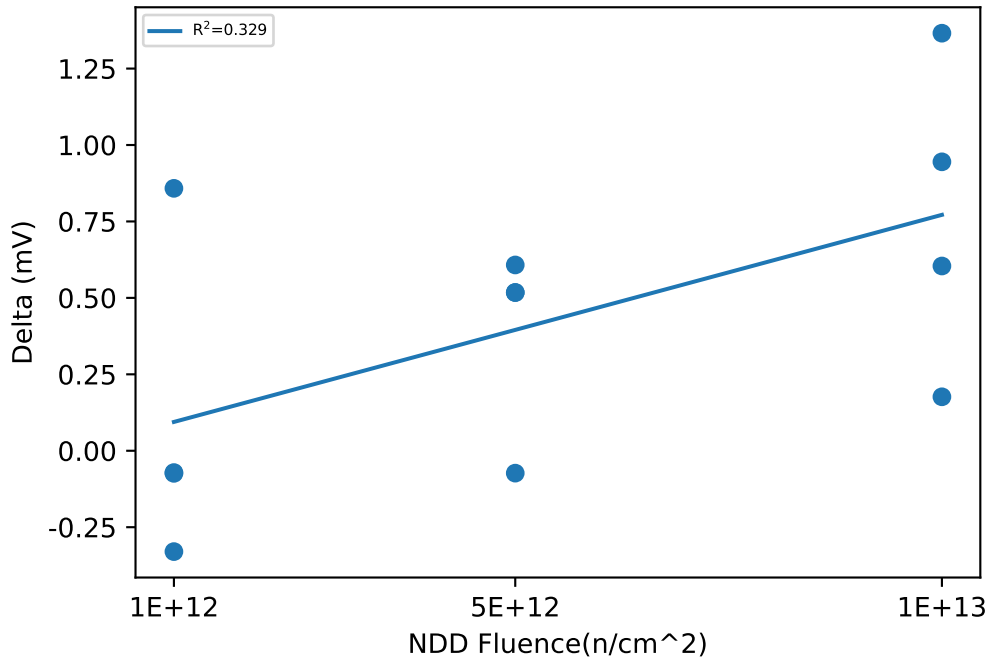
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		48.226	
55	0	CORRELATION		48.225	
56	0	CORRELATION		48.057	
64	1e+12	NDD	48.302	48.228	-0.0739
65	1e+12	NDD	47.707	48.565	0.8583
66	1e+12	NDD	48.637	48.566	-0.0713
67	1e+12	NDD	48.387	48.057	-0.3298
68	5e+12	NDD	48.126	48.733	0.6077
69	5e+12	NDD	48.046	48.564	0.5176
70	5e+12	NDD	48.638	48.565	-0.0732
71	5e+12	NDD	48.388	48.905	0.5176
72	1e+13	NDD	47.959	48.563	0.6043
73	1e+13	NDD	48.216	48.392	0.1765
74	1e+13	NDD	47.787	48.732	0.945
75	1e+13	NDD	48.386	49.751	1.3657

NDD vs Post - Pre Exposure Delta

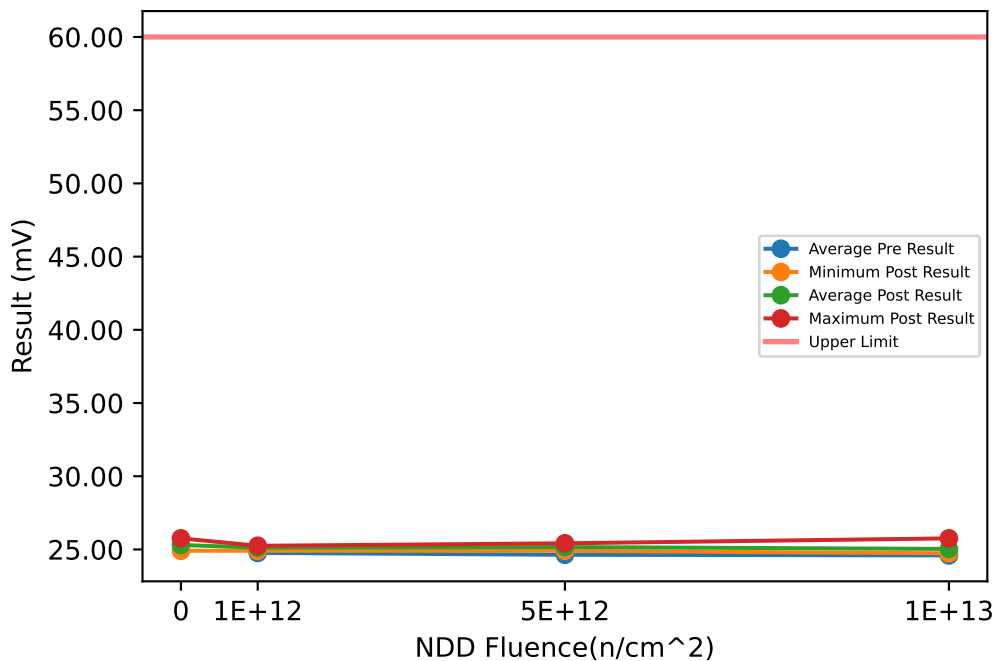


Test Statistics (mV)

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					48.057	48.169	48.226	0.097255				
1e+12	47.707	48.258	48.637	0.3942	48.057	48.354	48.566	0.25378	-0.3298	0.095825	0.8583	0.52258
5e+12	48.046	48.299	48.638	0.2687	48.564	48.692	48.905	0.16299	-0.0732	0.39242	0.6077	0.31331
1e+13	47.787	48.087	48.386	0.2659	48.392	48.86	49.751	0.61042	0.1765	0.77288	1.3657	0.50502

Device Test: 17.3 VIN|DROPOUT/OUT//2.25//100//@VDO_100MA_LV

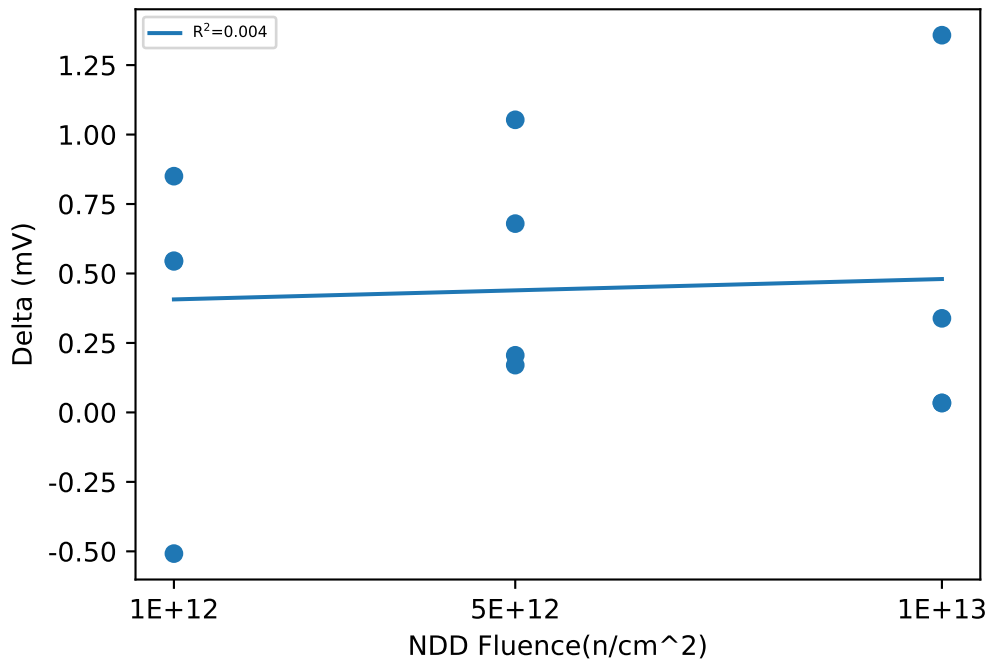
NDD vs Result Stats



Test Results (Upper Limit = 60.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		24.91	
55	0	CORRELATION		25.759	
56	0	CORRELATION		25.25	
64	1e+12	NDD	24.537	25.081	0.5436
65	1e+12	NDD	24.399	25.249	0.8502
66	1e+12	NDD	24.703	25.25	0.546
67	1e+12	NDD	25.419	24.911	-0.5081
68	5e+12	NDD	24.703	24.908	0.2056
69	5e+12	NDD	25.078	25.248	0.1702
70	5e+12	NDD	24.026	25.079	1.0531
71	5e+12	NDD	24.74	25.419	0.6795
72	1e+13	NDD	24.705	24.738	0.0336
73	1e+13	NDD	24.399	24.738	0.3386
74	1e+13	NDD	24.873	24.907	0.0344
75	1e+13	NDD	24.399	25.757	1.3576

NDD vs Post - Pre Exposure Delta

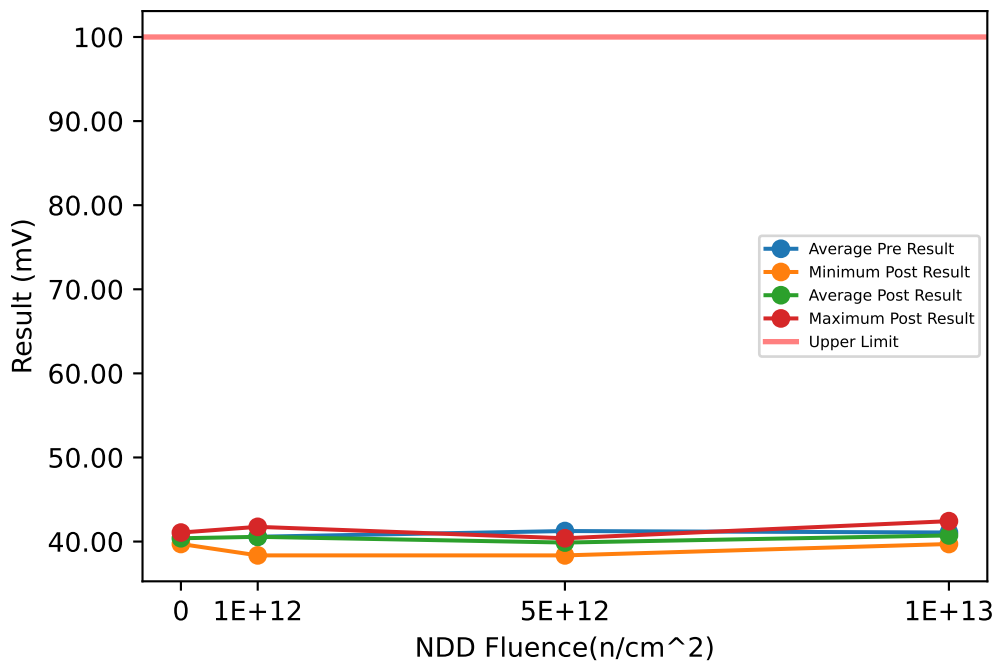


Test Statistics (mV)

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					24.91	25.306	25.759	0.42711				
1e+12	24.399	24.765	25.419	0.45352	24.911	25.123	25.25	0.16204	-0.5081	0.35792	0.8502	0.59503
5e+12	24.026	24.637	25.078	0.44087	24.908	25.164	25.419	0.21995	0.1702	0.5271	1.0531	0.42057
1e+13	24.399	24.594	24.873	0.23533	24.738	25.035	25.757	0.48767	0.0336	0.44105	1.3576	0.62768

Device Test: 17.30 VIN|DROPOUT/OUT//13.3//250//@VDO_250MA

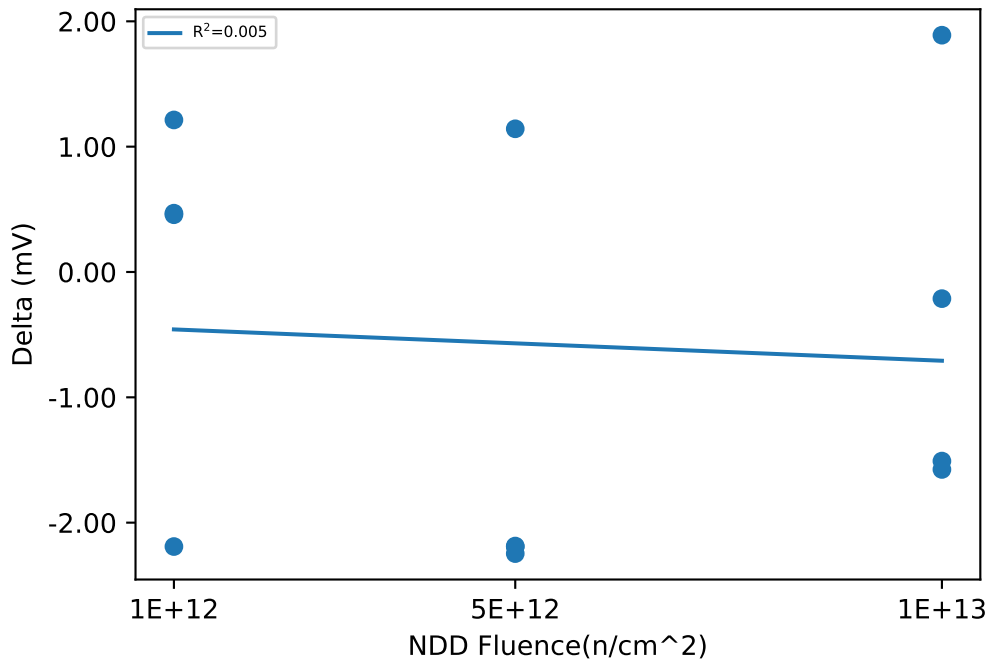
NDD vs Result Stats



Test Results (Upper Limit = 100.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		39.712	
55	0	CORRELATION		41.07	
56	0	CORRELATION		40.393	
64	1e+12	NDD	40.616	41.073	0.4568
65	1e+12	NDD	39.857	41.07	1.2131
66	1e+12	NDD	41.281	41.75	0.4693
67	1e+12	NDD	40.545	38.355	-2.1906
68	5e+12	NDD	42.635	40.388	-2.2469
69	5e+12	NDD	42.576	40.389	-2.1867
70	5e+12	NDD	39.248	40.39	1.1425
71	5e+12	NDD	40.546	38.354	-2.1925
72	1e+13	NDD	41.964	40.388	-1.5755
73	1e+13	NDD	40.536	42.425	1.8893
74	1e+13	NDD	40.6	40.387	-0.2126
75	1e+13	NDD	41.216	39.707	-1.5087

NDD vs Post - Pre Exposure Delta

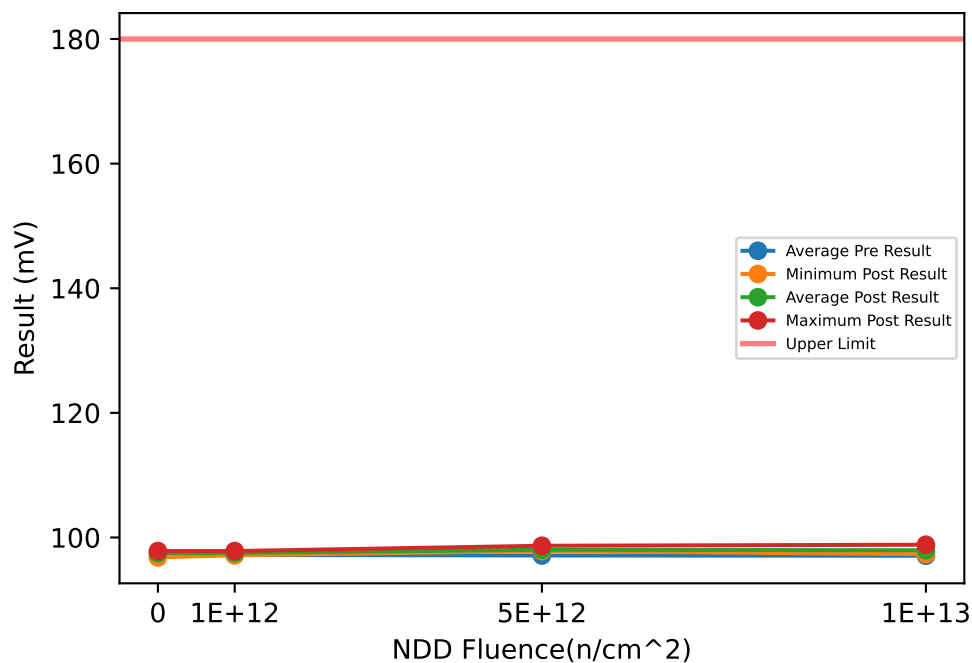


Test Statistics (mV)

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					39.712	40.392	41.07	0.679				
1e+12	39.857	40.575	41.281	0.58202	38.355	40.562	41.75	1.5057	-2.1906	-0.01285	1.2131	1.4943
5e+12	39.248	41.251	42.635	1.6514	38.354	39.88	40.39	1.0176	-2.2469	-1.3709	1.1425	1.6758
1e+13	40.536	41.079	41.964	0.66479	39.707	40.727	42.425	1.1767	-1.5755	-0.35187	1.8893	1.6205

Device Test: 17.33 VIN|DROPOUT/OUT//3//500//@VDO_500MA

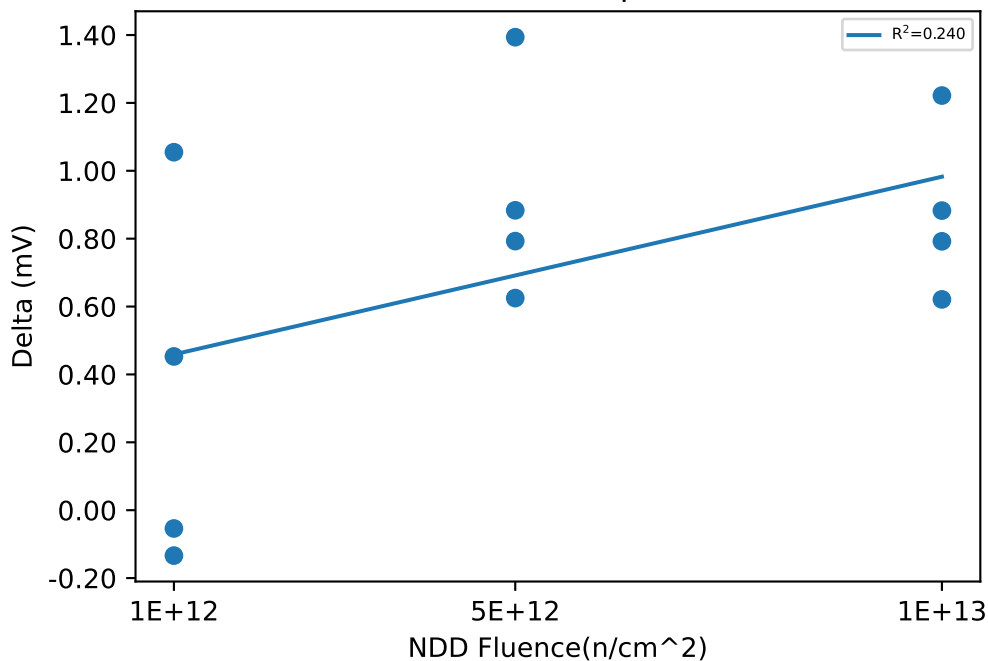
NDD vs Result Stats



Test Results (Upper Limit = 180.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		96.804	
55	0	CORRELATION		97.822	
56	0	CORRELATION		97.824	
64	1e+12	NDD	97.032	97.485	0.453
65	1e+12	NDD	96.768	97.822	1.0547
66	1e+12	NDD	97.707	97.653	-0.0539
67	1e+12	NDD	97.278	97.145	-0.1338
68	5e+12	NDD	97.196	97.821	0.6249
69	5e+12	NDD	96.938	97.821	0.8835
70	5e+12	NDD	97.029	97.822	0.7928
71	5e+12	NDD	97.279	98.672	1.3936
72	1e+13	NDD	96.69	97.311	0.6211
73	1e+13	NDD	96.597	97.819	1.2217
74	1e+13	NDD	97.027	97.819	0.7922
75	1e+13	NDD	97.956	98.839	0.8827

NDD vs Post - Pre Exposure Delta

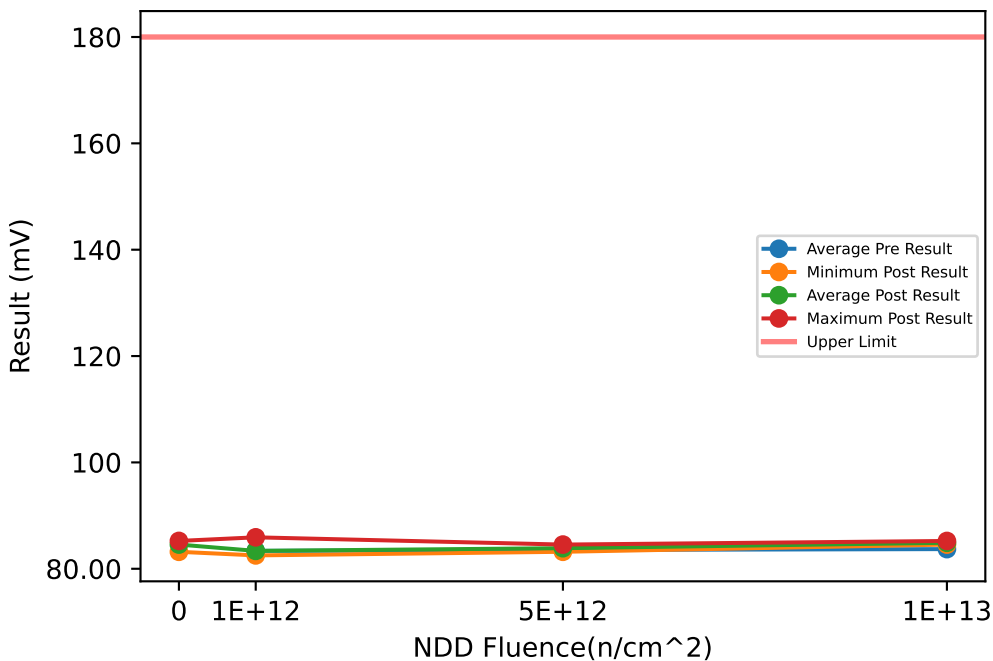


Test Statistics (mV)

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					96.804	97.483	97.824	0.58858				
1e+12	96.768	97.196	97.707	0.39917	97.145	97.526	97.822	0.28931	-0.1338	0.33	1.0547	0.54858
5e+12	96.938	97.11	97.279	0.15494	97.821	98.034	98.672	0.42543	0.6249	0.9237	1.3936	0.33108
1e+13	96.597	97.068	97.956	0.62034	97.311	97.947	98.839	0.64086	0.6211	0.87943	1.2217	0.25265

Device Test: 17.36 VIN|DROPOUT/OUT//13.3//500//@VDO_500MA

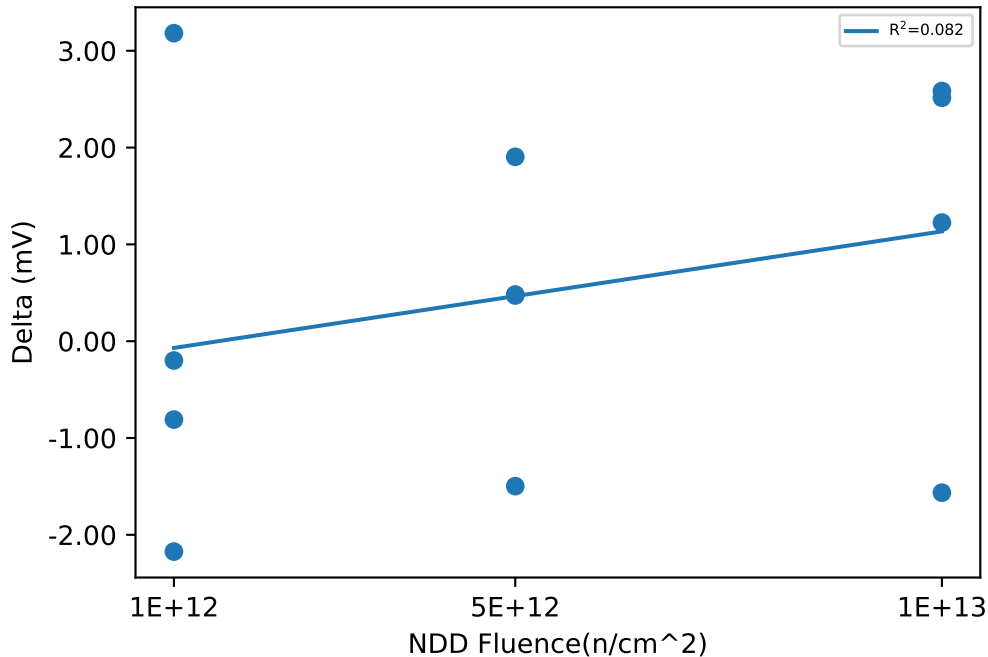
NDD vs Result Stats



Test Results (Upper Limit = 180.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		85.231	
55	0	CORRELATION		83.192	
56	0	CORRELATION		85.233	
64	1e+12	NDD	82.731	85.913	3.1815
65	1e+12	NDD	83.323	82.514	-0.8097
66	1e+12	NDD	82.713	82.514	-0.1993
67	1e+12	NDD	84.688	82.515	-2.1734
68	5e+12	NDD	84.066	84.549	0.4826
69	5e+12	NDD	81.966	83.871	1.9045
70	5e+12	NDD	83.4	83.872	0.472
71	5e+12	NDD	84.69	83.193	-1.4973
72	1e+13	NDD	86.114	84.549	-1.5649
73	1e+13	NDD	81.963	84.548	2.5845
74	1e+13	NDD	82.712	85.227	2.5148
75	1e+13	NDD	84.001	85.227	1.2255

NDD vs Post - Pre Exposure Delta

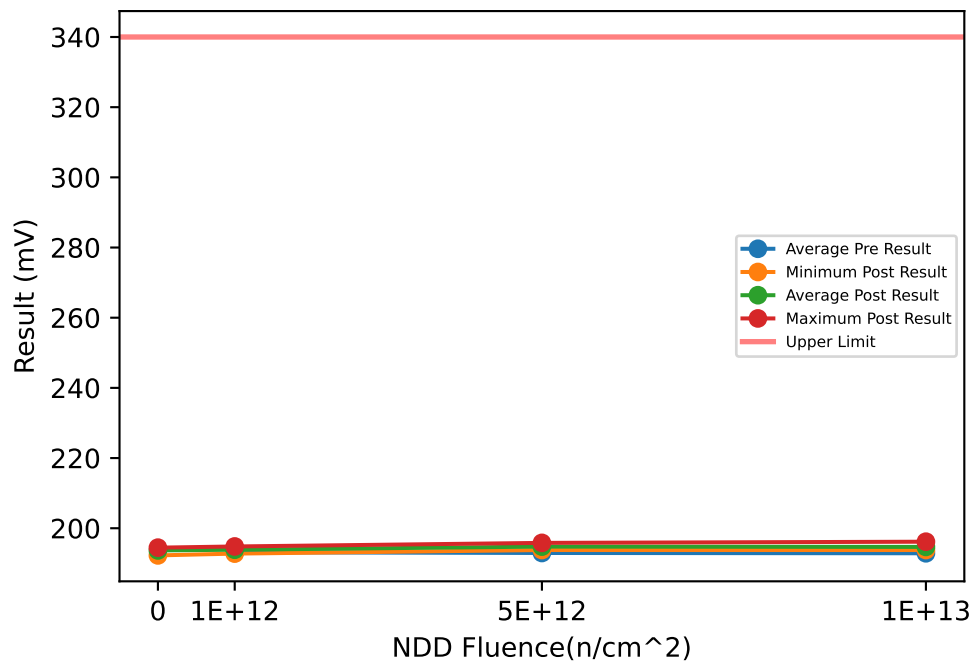


Test Statistics (mV)

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					83.192	84.552	85.233	1.1777				
1e+12	82.713	83.364	84.688	0.92723	82.514	83.364	85.913	1.6993	-2.1734	-0.000225	3.1815	2.276
5e+12	81.966	83.531	84.69	1.1684	83.193	83.871	84.549	0.55367	-1.4973	0.34045	1.9045	1.3977
1e+13	81.963	83.698	86.114	1.8174	84.548	84.888	85.227	0.39173	-1.5649	1.19	2.5845	1.94

Device Test: 17.39 VIN|DROPOUT/OUT//3//1000//@VDO_1A

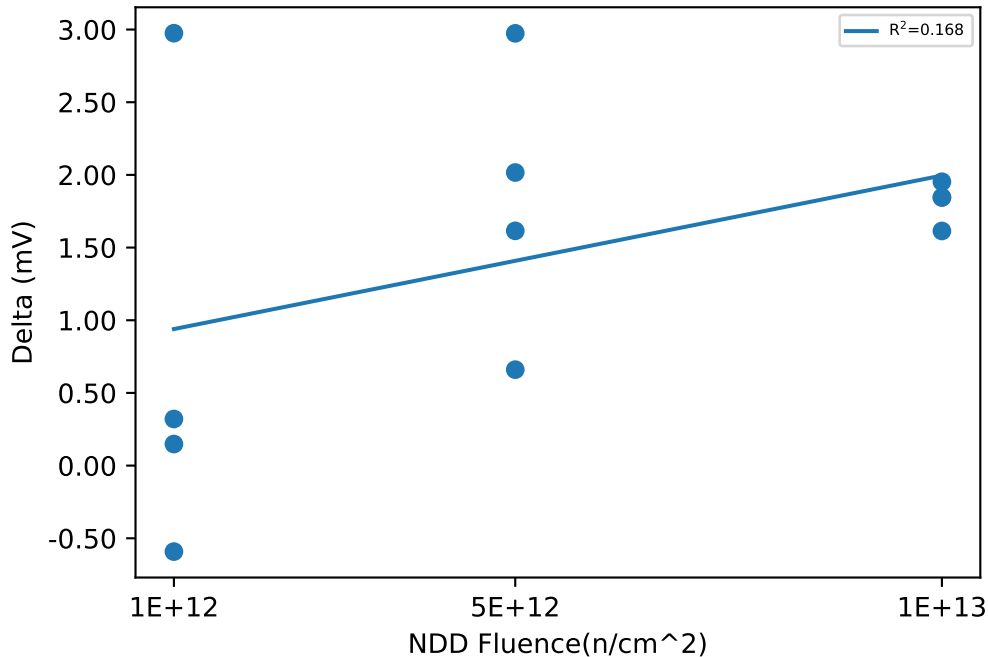
NDD vs Result Stats



Test Results (Upper Limit = 340.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		192.26	
55	0	CORRELATION		194.47	
56	0	CORRELATION		194.3	
64	1e+12	NDD	193.64	193.79	0.1483
65	1e+12	NDD	191.83	194.81	2.9748
66	1e+12	NDD	193.81	194.13	0.3207
67	1e+12	NDD	193.36	192.77	-0.5916
68	5e+12	NDD	193.13	193.79	0.6601
69	5e+12	NDD	192.85	194.47	1.6151
70	5e+12	NDD	192.96	194.98	2.0163
71	5e+12	NDD	192.85	195.83	2.9738
72	1e+13	NDD	191.94	193.79	1.8447
73	1e+13	NDD	192.34	194.29	1.9529
74	1e+13	NDD	192.62	194.46	1.8458
75	1e+13	NDD	194.55	196.16	1.6143

NDD vs Post - Pre Exposure Delta

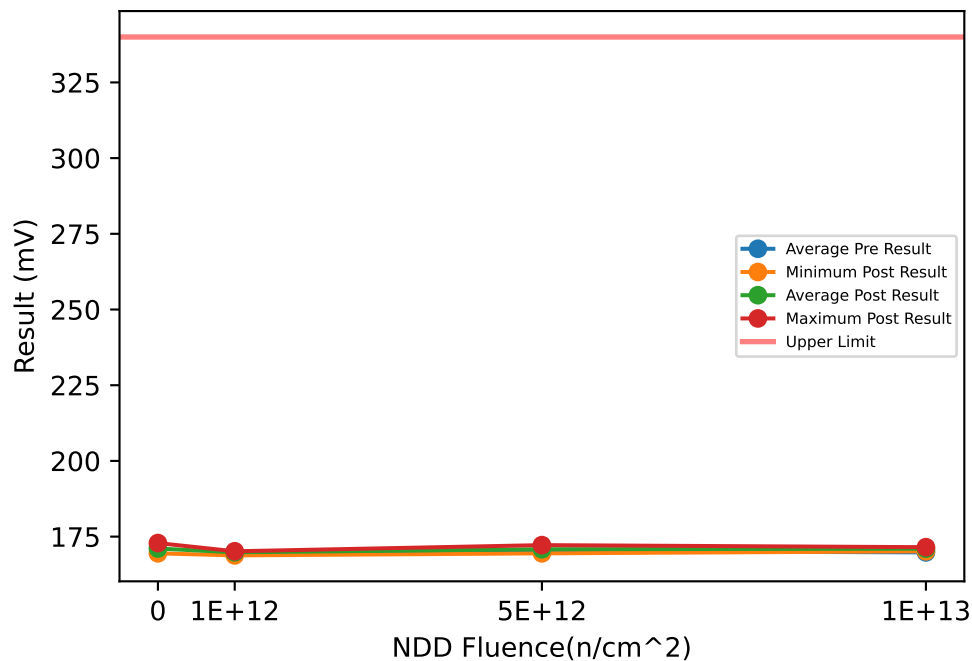


Test Statistics (mV)

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					192.26	193.68	194.47	1.2289				
1e+12	191.83	193.16	193.81	0.90468	192.77	193.87	194.81	0.84867	-0.5916	0.71305	2.9748	1.5589
5e+12	192.85	192.95	193.13	0.12943	193.79	194.76	195.83	0.86001	0.6601	1.8163	2.9738	0.95866
1e+13	191.94	192.86	194.55	1.158	193.79	194.68	196.16	1.0318	1.6143	1.8144	1.9529	0.14274

Device Test: 17.42 VIN|DROPOUT/OUT//13.3//1000//@VDO_1A

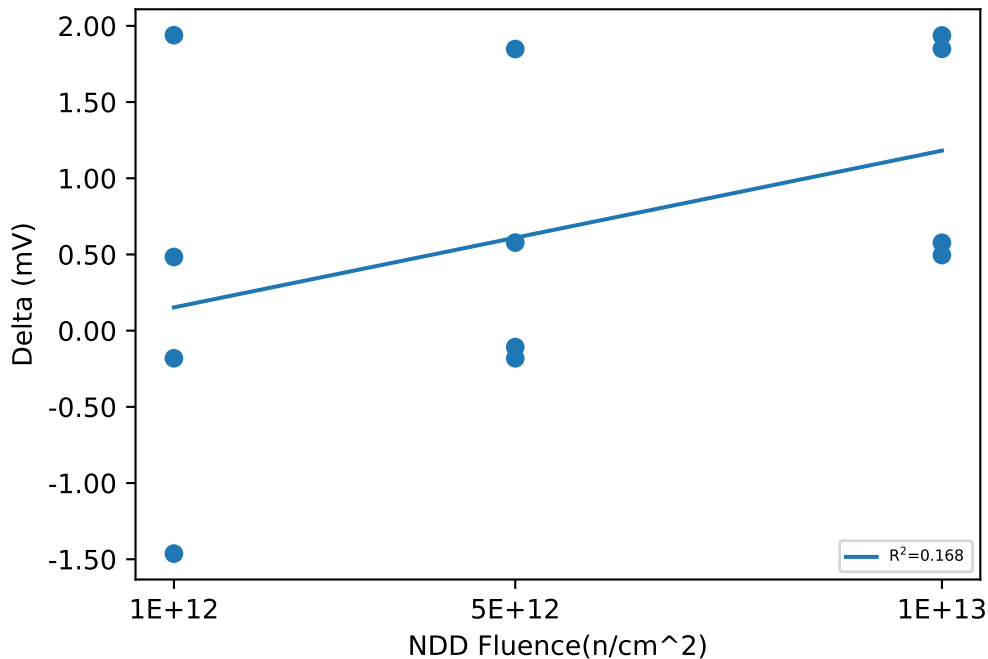
NDD vs Result Stats



Test Results (Upper Limit = 340.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		169.48	
55	0	CORRELATION		170.83	
56	0	CORRELATION		172.87	
64	1e+12	NDD	169.67	170.16	0.4835
65	1e+12	NDD	168.21	170.15	1.9388
66	1e+12	NDD	170.34	170.16	-0.1812
67	1e+12	NDD	170.26	168.8	-1.4629
68	5e+12	NDD	169.65	169.47	-0.1812
69	5e+12	NDD	170.93	171.51	0.578
70	5e+12	NDD	170.34	172.19	1.8482
71	5e+12	NDD	170.26	170.15	-0.1077
72	1e+13	NDD	168.3	170.15	1.8492
73	1e+13	NDD	169.57	171.51	1.9369
74	1e+13	NDD	171.01	171.51	0.4959
75	1e+13	NDD	170.25	170.83	0.5769

NDD vs Post - Pre Exposure Delta

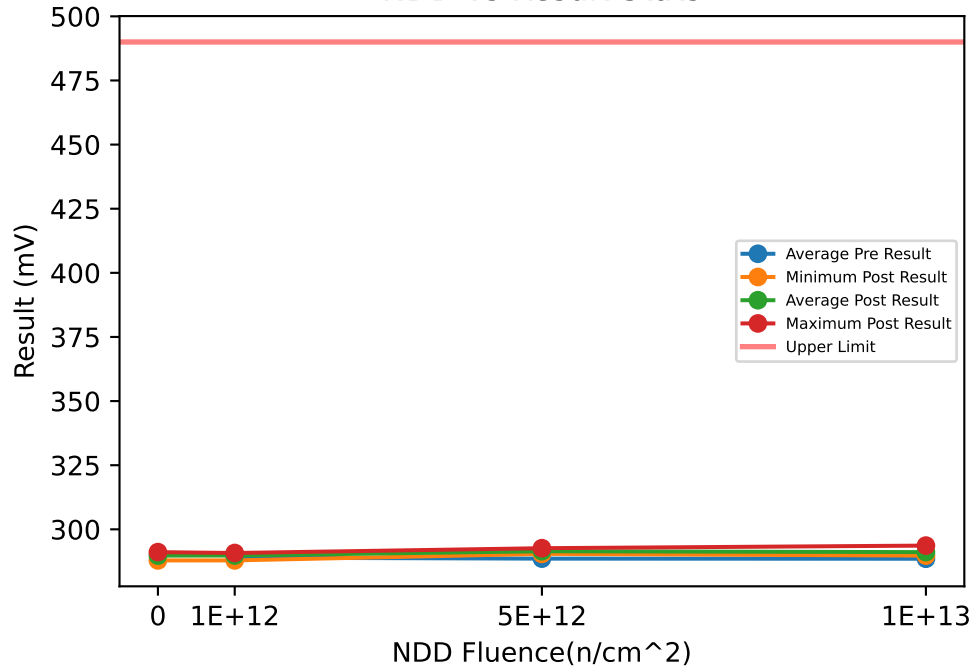


Test Statistics (mV)

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					169.48	171.06	172.87	1.7099				
1e+12	168.21	169.62	170.34	0.9834	168.8	169.82	170.16	0.679	-1.4629	0.19455	1.9388	1.4159
5e+12	169.65	170.3	170.93	0.52355	169.47	170.83	172.19	1.2406	-0.1812	0.53432	1.8482	0.94027
1e+13	168.3	169.79	171.01	1.1507	170.15	171	171.51	0.65009	0.4959	1.2147	1.9369	0.78478

Device Test: 17.45 VIN|DROPOUT/OUT//3//1500//@VDO_1P5A

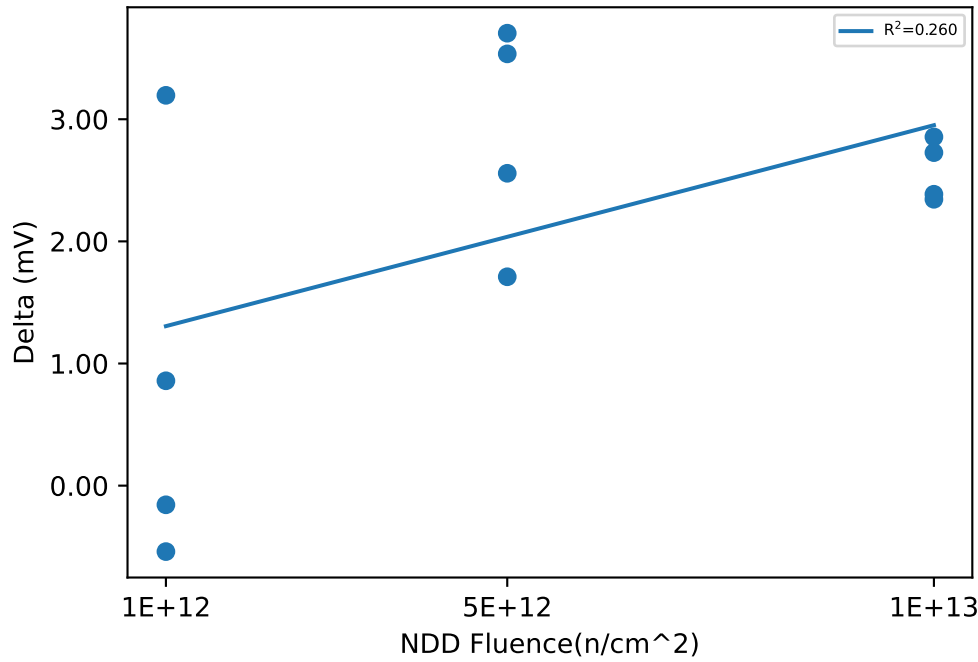
NDD vs Result Stats



Test Results (Upper Limit = 490.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		287.89	
55	0	CORRELATION		291.12	
56	0	CORRELATION		290.27	
64	1e+12	NDD	289.41	290.27	0.8586
65	1e+12	NDD	287.58	290.78	3.1958
66	1e+12	NDD	290.42	290.27	-0.1568
67	1e+12	NDD	288.43	287.89	-0.54
68	5e+12	NDD	288.72	290.43	1.7102
69	5e+12	NDD	287.75	291.45	3.7045
70	5e+12	NDD	288.73	291.28	2.5575
71	5e+12	NDD	289.11	292.64	3.5352
72	1e+13	NDD	287.37	289.75	2.3859
73	1e+13	NDD	288.09	290.43	2.3446
74	1e+13	NDD	287.88	290.6	2.7267
75	1e+13	NDD	290.8	293.66	2.8553

NDD vs Post - Pre Exposure Delta

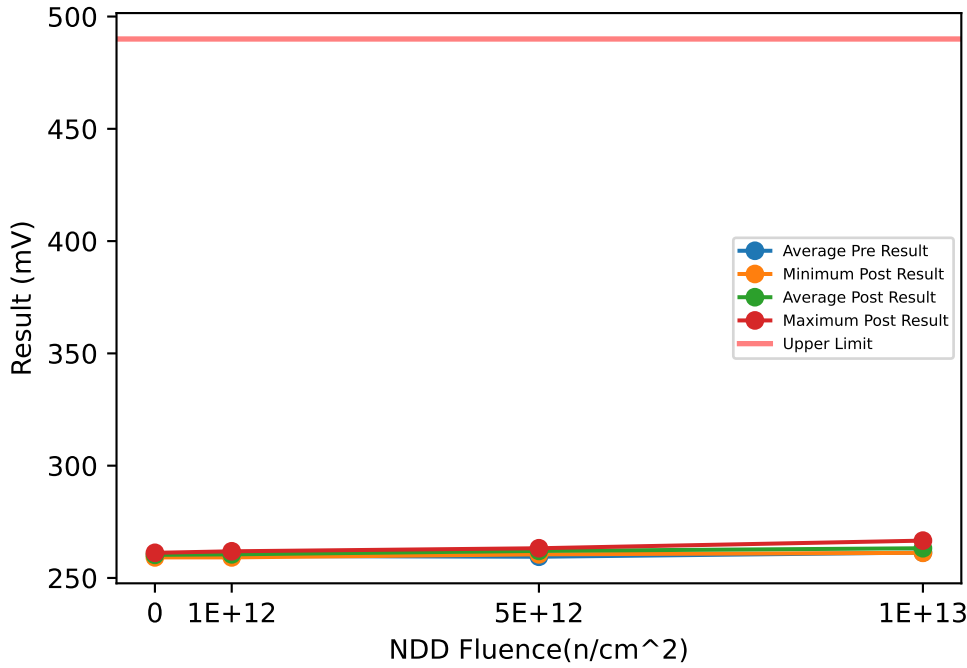


Test Statistics (mV)

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					287.89	289.76	291.12	1.6729				
1e+12	287.58	288.96	290.42	1.229	287.89	289.8	290.78	1.2959	-0.54	0.8394	3.1958	1.6781
5e+12	287.75	288.58	289.11	0.58086	290.43	291.45	292.64	0.91016	1.7102	2.8769	3.7045	0.92763
1e+13	287.37	288.53	290.8	1.5434	289.75	291.11	293.66	1.7374	2.3446	2.5781	2.8553	0.25192

Device Test: 17.48 VIN|DROPOUT/OUT//13.3//1500//@VDO_1P5A

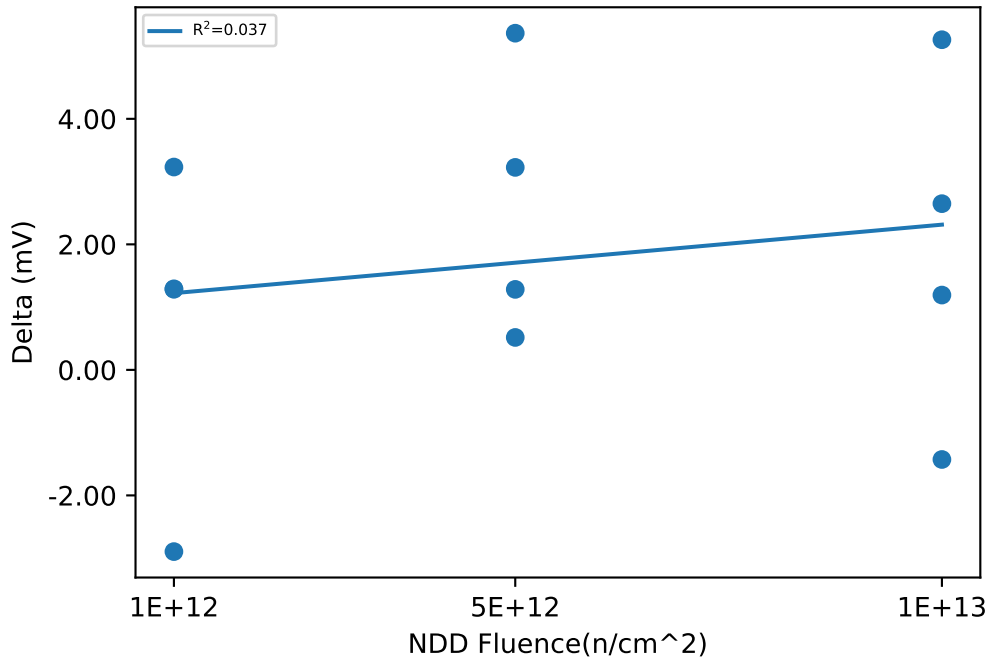
NDD vs Result Stats



Test Results (Upper Limit = 490.0 (mV))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		259.16	
55	0	CORRELATION		261.19	
56	0	CORRELATION		260.52	
64	1e+12	NDD	264.77	261.88	-2.8953
65	1e+12	NDD	257.86	259.16	1.2913
66	1e+12	NDD	258.64	261.87	3.232
67	1e+12	NDD	257.87	259.16	1.2846
68	5e+12	NDD	260.67	261.19	0.5169
69	5e+12	NDD	257.87	263.23	5.3644
70	5e+12	NDD	260	263.23	3.2263
71	5e+12	NDD	259.23	260.51	1.2827
72	1e+13	NDD	257.97	263.23	5.2605
73	1e+13	NDD	263.3	261.87	-1.4276
74	1e+13	NDD	260	261.19	1.1921
75	1e+13	NDD	263.98	266.62	2.6484

NDD vs Post - Pre Exposure Delta

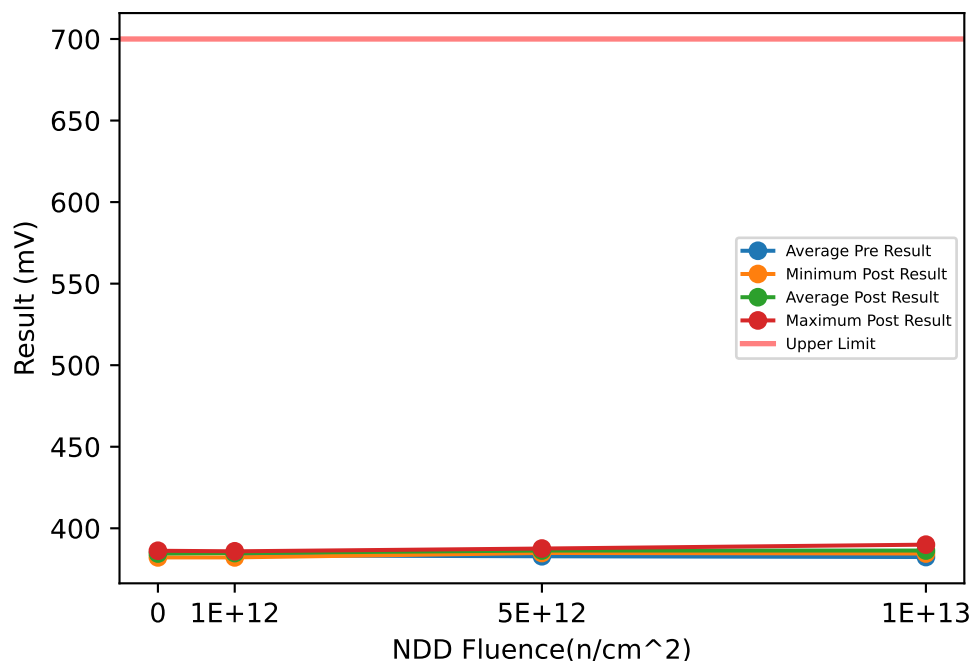


Test Statistics (mV)

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					259.16	260.29	261.19	1.0374				
1e+12	257.86	259.79	264.77	3.3424	259.16	260.51	261.88	1.5695	-2.8953	0.72815	3.232	2.5836
5e+12	257.87	259.44	260.67	1.2058	260.51	262.04	263.23	1.4007	0.5169	2.5976	5.3644	2.1686
1e+13	257.97	261.31	263.98	2.8252	261.19	263.23	266.62	2.418	-1.4276	1.9184	5.2605	2.7944

Device Test: 17.51 VIN|DROPOUT/OUT//3//2000//@VDO_2A

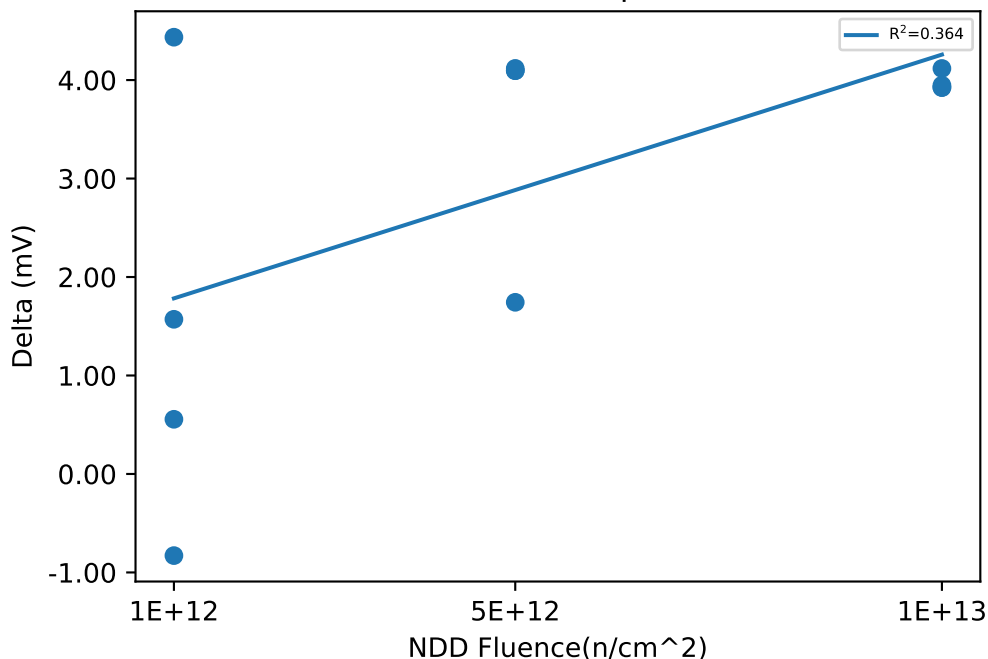
NDD vs Result Stats



Test Results (Upper Limit = 700.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		382.16	
55	0	CORRELATION		386.23	
56	0	CORRELATION		385.21	
64	1e+12	NDD	384.32	385.9	1.5707
65	1e+12	NDD	381.46	385.89	4.4353
66	1e+12	NDD	384.83	385.38	0.5553
67	1e+12	NDD	382.99	382.16	-0.8289
68	5e+12	NDD	383.13	384.87	1.7433
69	5e+12	NDD	382.31	386.4	4.0953
70	5e+12	NDD	382.45	386.57	4.1184
71	5e+12	NDD	383.5	387.59	4.0958
72	1e+13	NDD	380.59	384.53	3.947
73	1e+13	NDD	381.29	385.21	3.9234
74	1e+13	NDD	381.6	385.72	4.1177
75	1e+13	NDD	386.04	389.97	3.9261

NDD vs Post - Pre Exposure Delta

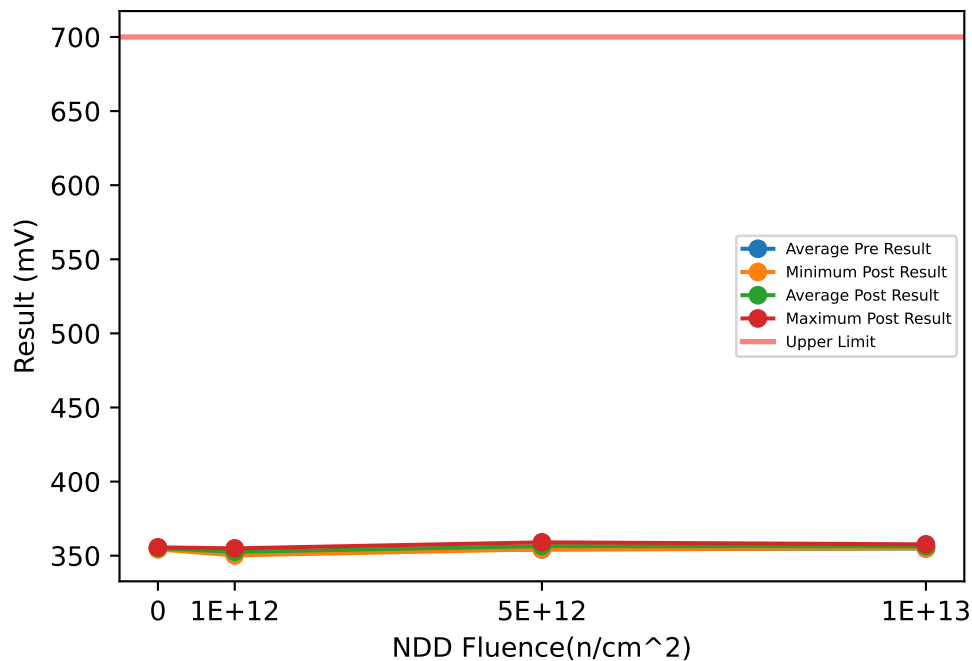


Test Statistics (mV)

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					382.16	384.53	386.23	2.1214				
1e+12	381.46	383.4	384.83	1.5101	382.16	384.83	385.9	1.7995	-0.8289	1.4331	4.4353	2.23
5e+12	382.31	382.85	383.5	0.56216	384.87	386.36	387.59	1.122	1.7433	3.5132	4.1184	1.18
1e+13	380.59	382.38	386.04	2.4777	384.53	386.36	389.97	2.4547	3.9234	3.9786	4.1177	0.093364

Device Test: 17.54 VIN|DROPOUT/OUT//13.3//2000//@VDO_2A

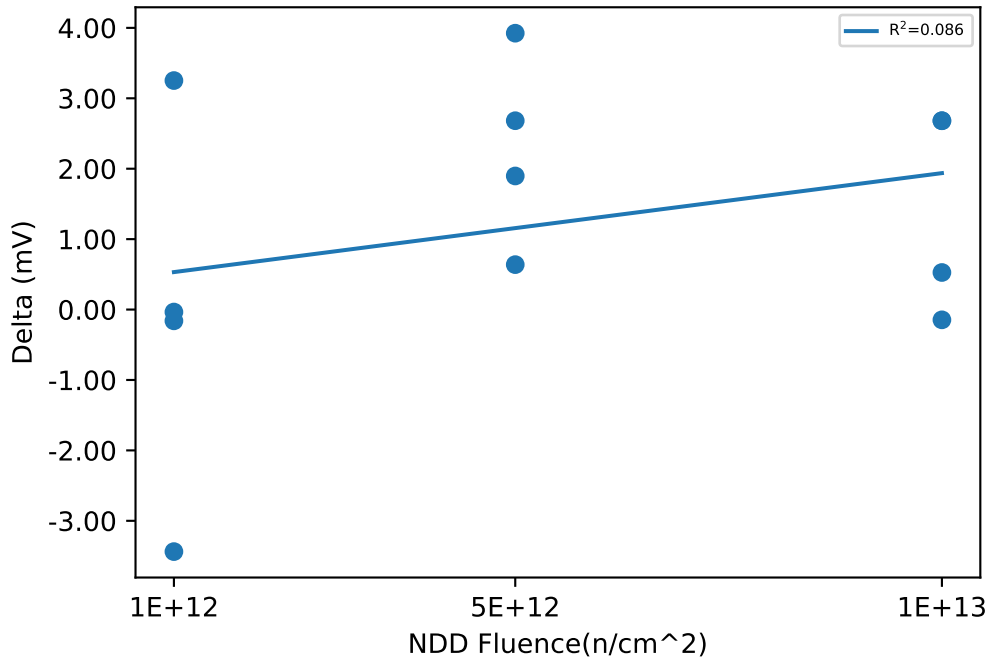
NDD vs Result Stats



Test Results (Upper Limit = 700.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		354.27	
55	0	CORRELATION		355.63	
56	0	CORRELATION		355.63	
64	1e+12	NDD	355.11	354.95	-0.1602
65	1e+12	NDD	350.91	350.87	-0.0353
66	1e+12	NDD	351.02	354.27	3.252
67	1e+12	NDD	353.63	350.19	-3.4371
68	5e+12	NDD	357.13	359.02	1.8969
69	5e+12	NDD	352.27	354.95	2.6817
70	5e+12	NDD	353.74	357.67	3.9244
71	5e+12	NDD	353.63	354.27	0.638
72	1e+13	NDD	355.1	355.63	0.5264
73	1e+13	NDD	354.3	356.98	2.6817
74	1e+13	NDD	355.09	354.95	-0.1459
75	1e+13	NDD	354.98	357.66	2.6808

NDD vs Post - Pre Exposure Delta

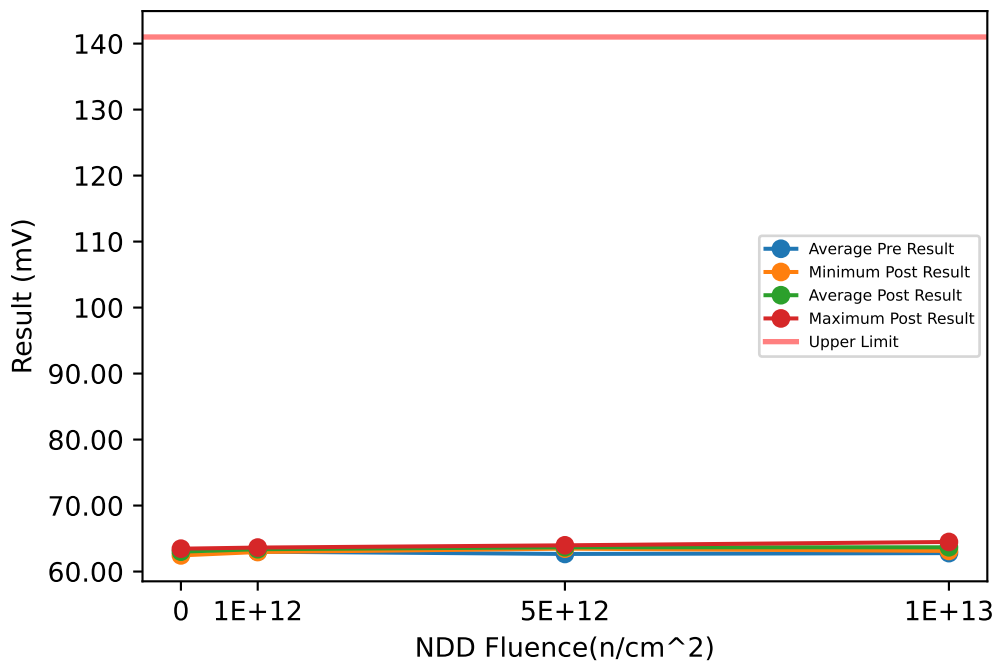


Test Statistics (mV)

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					354.27	355.18	355.63	0.78459				
1e+12	350.91	352.67	355.11	2.059	350.19	352.57	354.95	2.3866	-3.4371	-0.09515	3.252	2.7313
5e+12	352.27	354.19	357.13	2.0684	354.27	356.48	359.02	2.2439	0.638	2.2852	3.9244	1.3794
1e+13	354.3	354.87	355.1	0.38204	354.95	356.3	357.66	1.2399	-0.1459	1.4358	2.6817	1.4641

Device Test: 17.6 VIN|DROPOUT/OUT//2.25//250//@VDO_250MA_LV

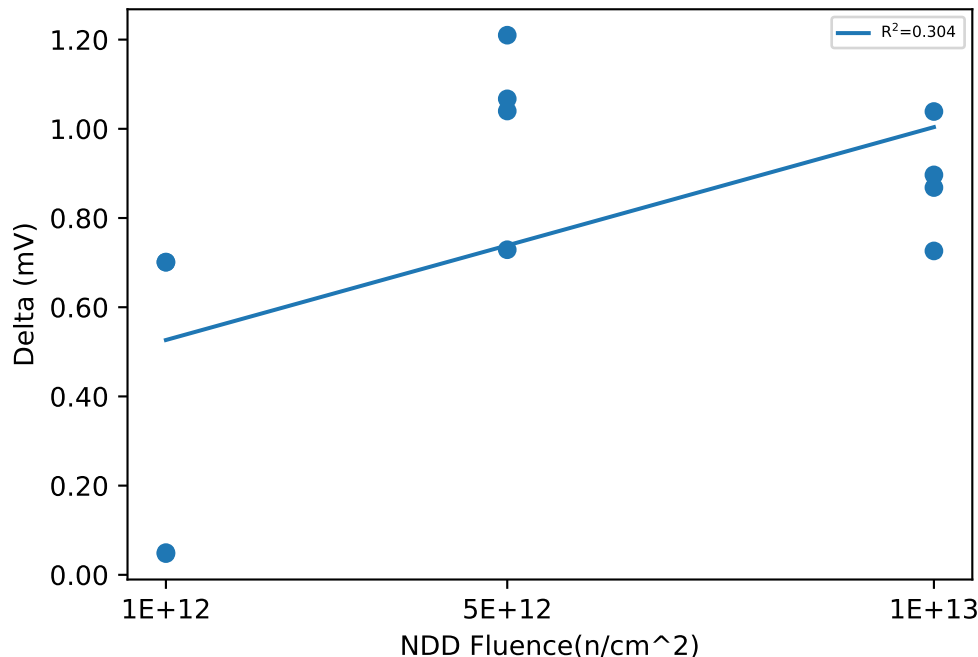
NDD vs Result Stats



Test Results (Upper Limit = 141.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		62.447	
55	0	CORRELATION		63.466	
56	0	CORRELATION		63.127	
64	1e+12	NDD	62.911	62.958	0.0476
65	1e+12	NDD	62.935	63.636	0.7009
66	1e+12	NDD	63.417	63.467	0.0498
67	1e+12	NDD	62.766	63.467	0.7012
68	5e+12	NDD	62.905	63.634	0.7289
69	5e+12	NDD	62.595	63.635	1.0399
70	5e+12	NDD	62.398	63.466	1.0672
71	5e+12	NDD	62.766	63.976	1.2099
72	1e+13	NDD	62.568	63.294	0.7262
73	1e+13	NDD	62.256	63.124	0.8683
74	1e+13	NDD	62.907	63.803	0.8967
75	1e+13	NDD	63.444	64.483	1.0388

NDD vs Post - Pre Exposure Delta

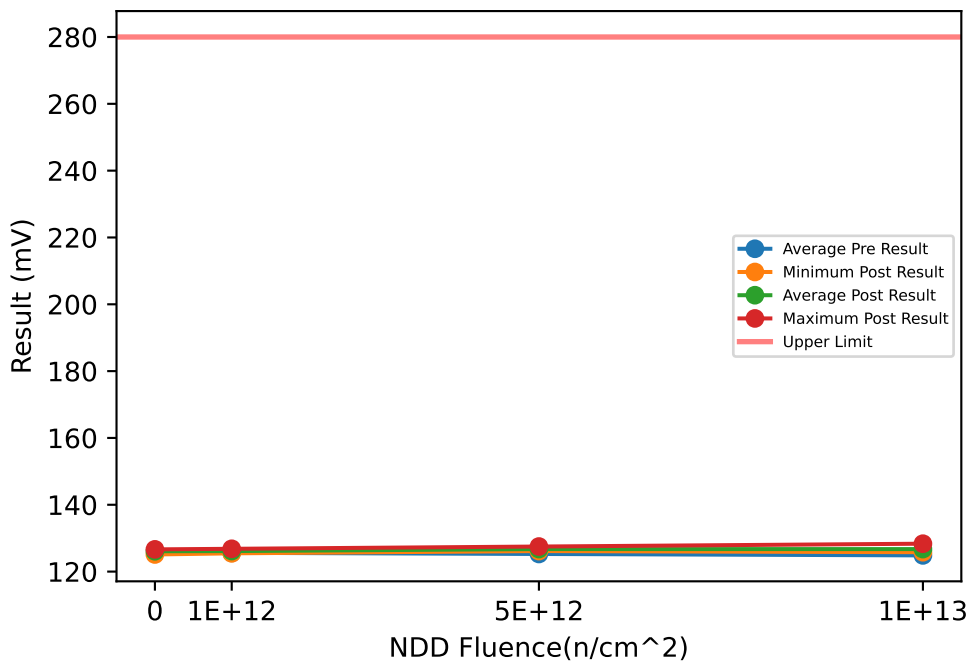


Test Statistics (mV)

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					62.447	63.013	63.466	0.5187				
1e+12	62.766	63.007	63.417	0.28307	62.958	63.382	63.636	0.29351	0.0476	0.37488	0.7012	0.37664
5e+12	62.398	62.666	62.905	0.219	63.466	63.678	63.976	0.21421	0.7289	1.0115	1.2099	0.2026
1e+13	62.256	62.794	63.444	0.50866	63.124	63.676	64.483	0.6104	0.7262	0.8825	1.0388	0.12814

Device Test: 17.9 VIN|DROPOUT/OUT//2.25//500//@VDO_500MA_LV

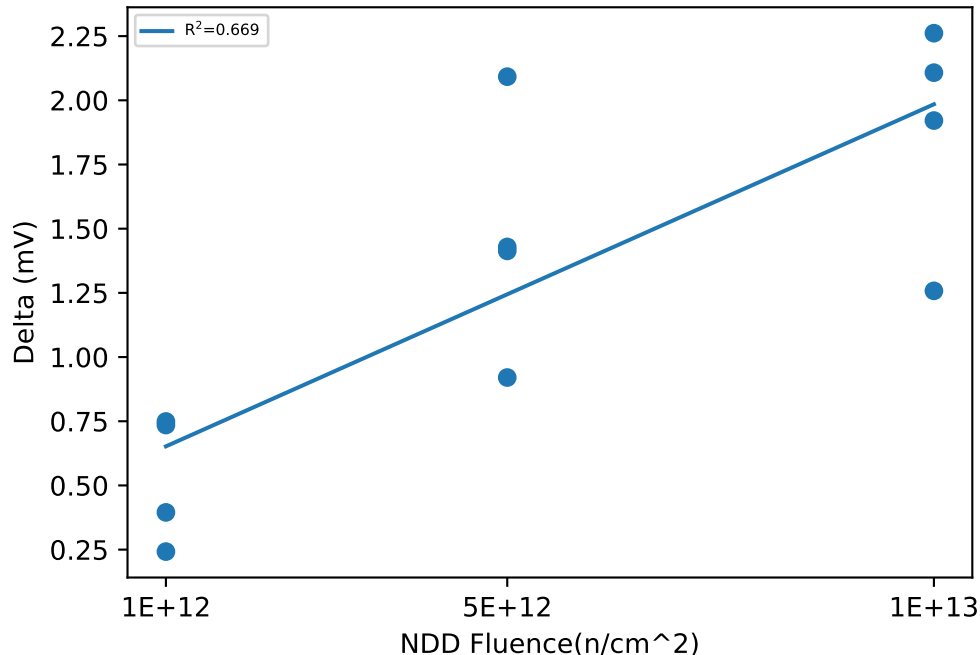
NDD vs Result Stats



Test Results (Upper Limit = 280.0 (mV))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		125.12	
55	0	CORRELATION		126.48	
56	0	CORRELATION		126.65	
64	1e+12	NDD	125.05	125.8	0.7491
65	1e+12	NDD	126.09	126.82	0.7352
66	1e+12	NDD	126.24	126.48	0.2423
67	1e+12	NDD	125.07	125.46	0.395
68	5e+12	NDD	125.22	126.14	0.9203
69	5e+12	NDD	124.9	126.99	2.0921
70	5e+12	NDD	124.88	126.31	1.4289
71	5e+12	NDD	126.09	127.5	1.4135
72	1e+13	NDD	124.71	125.97	1.2579
73	1e+13	NDD	123.88	125.8	1.9212
74	1e+13	NDD	124.71	126.82	2.1077
75	1e+13	NDD	126.09	128.35	2.2614

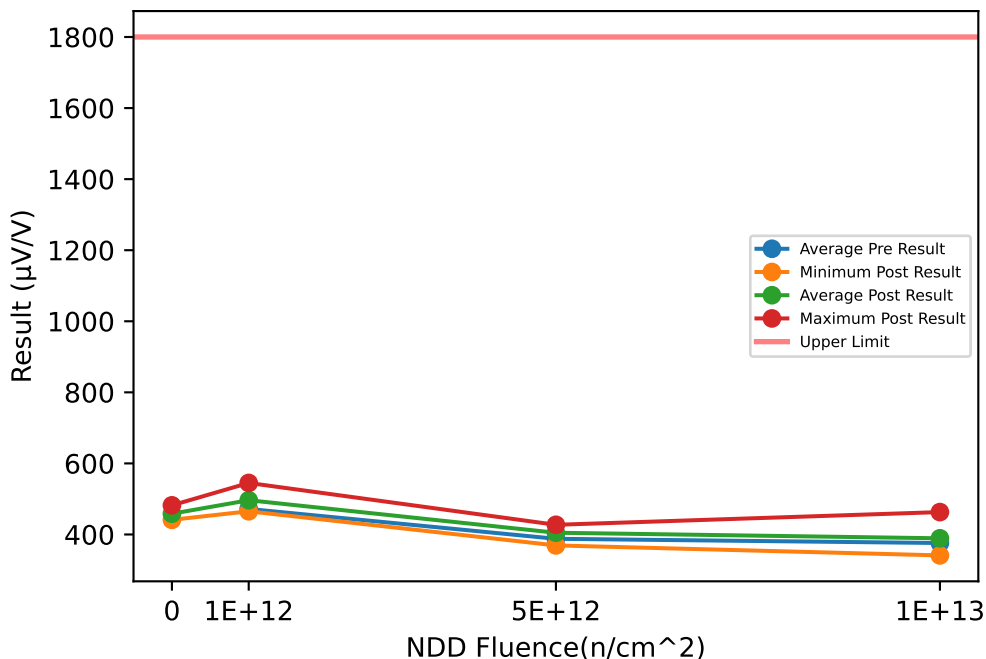
NDD vs Post - Pre Exposure Delta



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					125.12	126.09	126.65	0.83803				
1e+12	125.05	125.61	126.24	0.63898	125.46	126.14	126.82	0.61964	0.2423	0.5304	0.7491	0.25239
5e+12	124.88	125.27	126.09	0.56539	126.14	126.74	127.5	0.62836	0.9203	1.4637	2.0921	0.48094
1e+13	123.88	124.85	126.09	0.91464	125.8	126.73	128.35	1.1642	1.2579	1.887	2.2614	0.4419

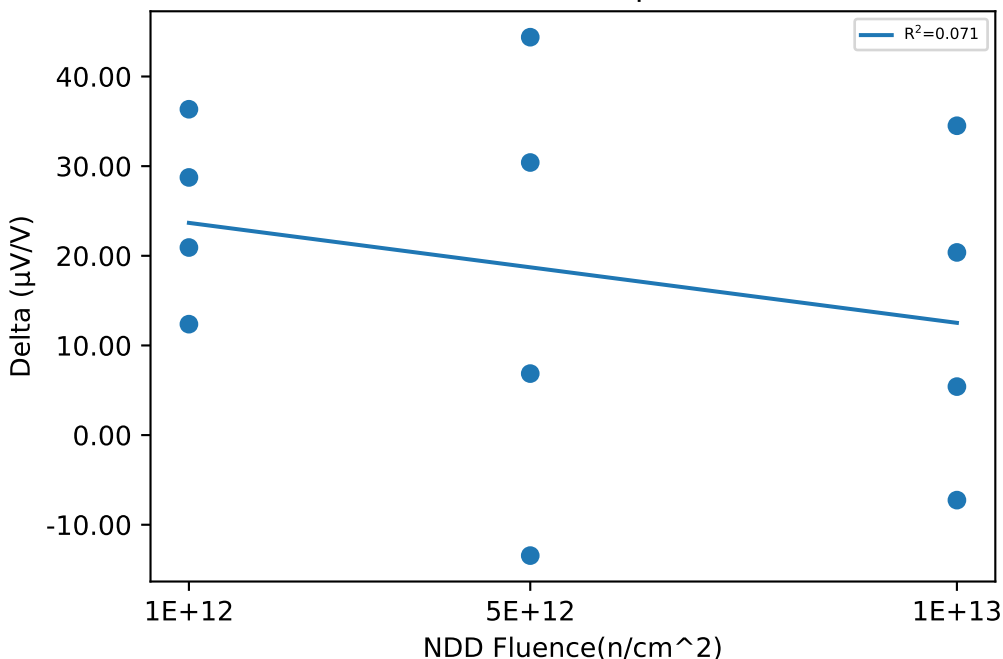
NDD vs Result Stats



Test Results (Upper Limit = 1800.0 (µV/V))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		452.14	
55	0	CORRELATION		441.24	
56	0	CORRELATION		482	
64	1e+12	NDD	476.43	488.8	12.373
65	1e+12	NDD	465.59	486.51	20.924
66	1e+12	NDD	428.91	465.26	36.347
67	1e+12	NDD	516.28	545.02	28.741
68	5e+12	NDD	324.85	369.23	44.384
69	5e+12	NDD	440.66	427.22	-13.441
70	5e+12	NDD	385	415.4	30.407
71	5e+12	NDD	400.88	407.74	6.8605
72	1e+13	NDD	347.04	352.45	5.409
73	1e+13	NDD	380.07	400.45	20.377
74	1e+13	NDD	348.39	341.13	-7.2544
75	1e+13	NDD	428.5	463.01	34.507

NDD vs Post - Pre Exposure Delta

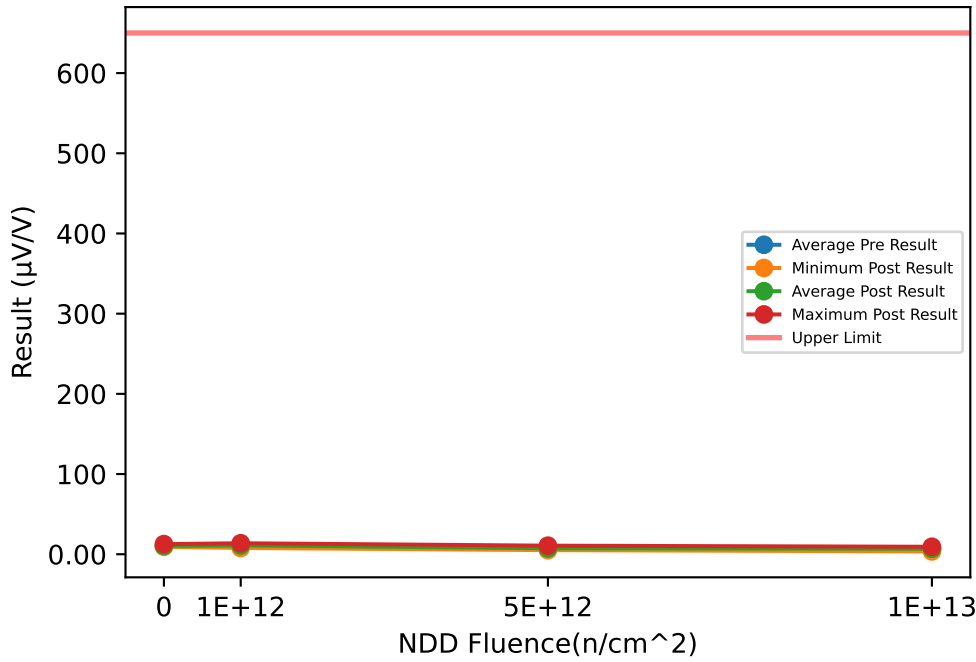


Test Statistics (µV/V)

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					441.24	458.46	482	21.106				
1e+12	428.91	471.8	516.28	35.953	465.26	496.4	545.02	34.103	12.373	24.596	36.347	10.298
5e+12	324.85	387.85	440.66	48.086	369.23	404.9	427.22	25.094	-13.441	17.053	44.384	25.555
1e+13	347.04	376	428.5	38.183	341.13	389.26	463.01	55.482	-7.2544	13.26	34.507	18.116

Device Test: 18.5 VIN|REGULATION/OUT/14/0.6//10//@LINE_REG

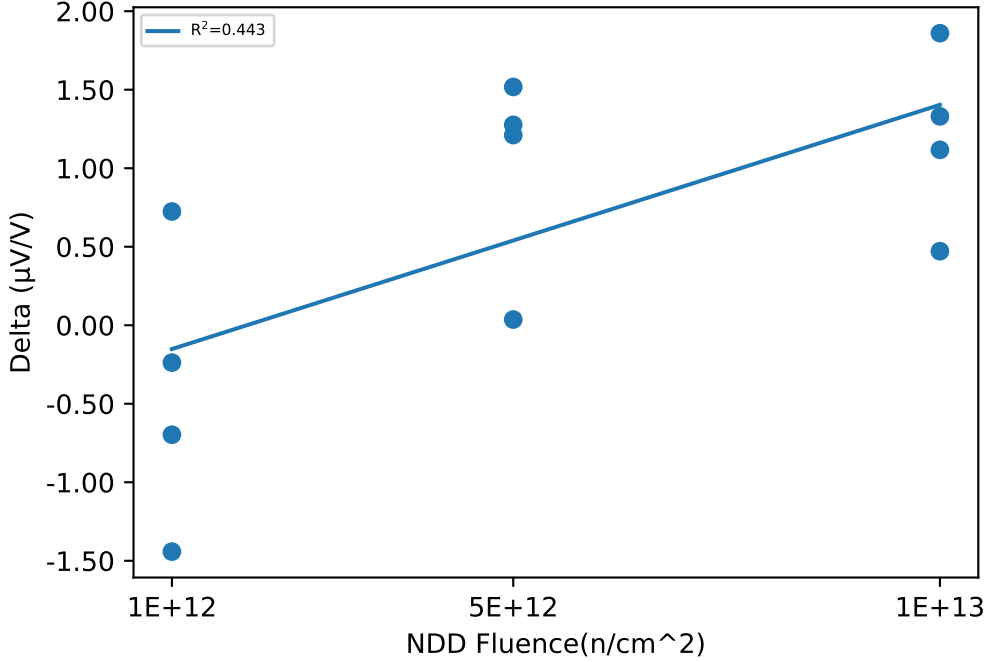
NDD vs Result Stats



Test Results (Upper Limit = 650.0 (µV/V))

Serial #	Fluence(n/cm²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		9.3884	
55	0	CORRELATION		9.3267	
56	0	CORRELATION		12.631	
64	1e+12	NDD	12.988	13.712	0.7244
65	1e+12	NDD	9.6264	9.3884	-0.238
66	1e+12	NDD	9.2858	7.8443	-1.4415
67	1e+12	NDD	13.884	13.187	-0.6972
68	5e+12	NDD	5.0902	5.1266	0.0364
69	5e+12	NDD	6.8187	8.0296	1.2109
70	5e+12	NDD	9.4092	10.685	1.2762
71	5e+12	NDD	4.412	5.9295	1.5175
72	1e+13	NDD	6.4167	8.2766	1.8599
73	1e+13	NDD	8.8551	9.3266	0.4715
74	1e+13	NDD	2.2212	3.5515	1.3303
75	1e+13	NDD	5.3377	6.4546	1.1169

NDD vs Post - Pre Exposure Delta

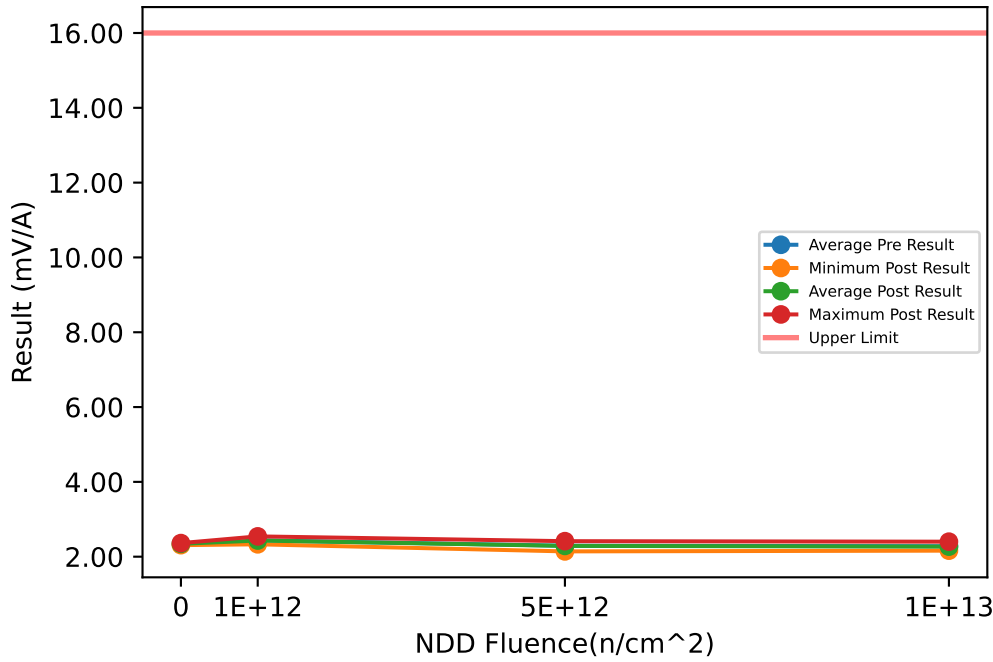


Test Statistics (µV/V)

Fluence(n/cm²)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					9.3267	10.449	12.631	1.8902				
1e+12	9.2858	11.446	13.884	2.3308	7.8443	11.033	13.712	2.8687	-1.4415	-0.41308	0.7244	0.90607
5e+12	4.412	6.4325	9.4092	2.2282	5.1266	7.4428	10.685	2.4842	0.0364	1.0102	1.5175	0.66249
1e+13	2.2212	5.7077	8.8551	2.7508	3.5515	6.9023	9.3266	2.5294	0.4715	1.1946	1.8599	0.57444

Device Test: 19.5 VOUT|REGULATION/OUT/5/3.3////@LOAD_REG

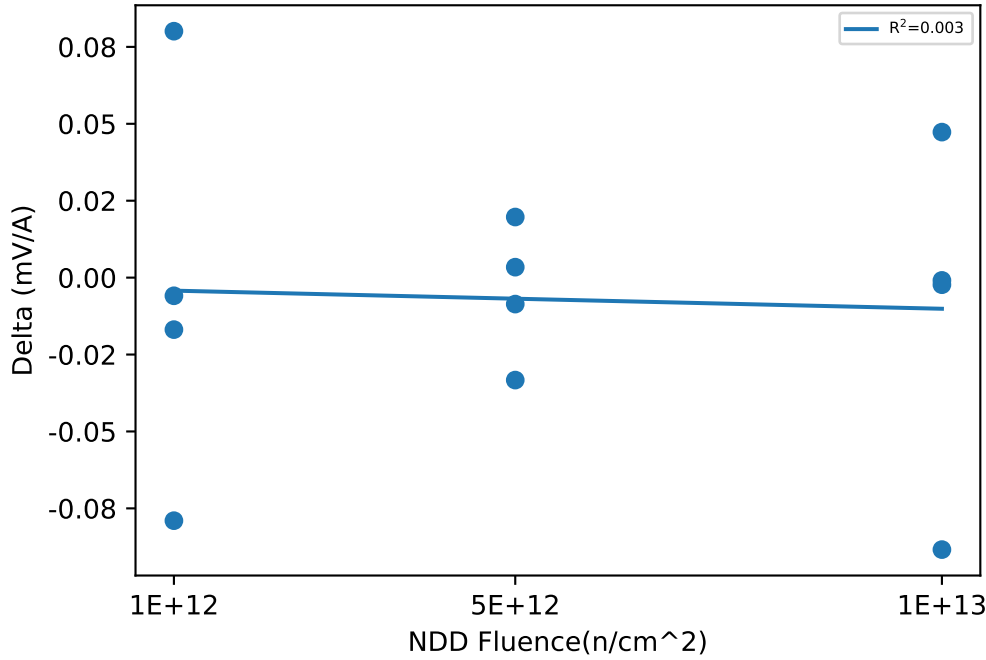
NDD vs Result Stats



Test Results (Upper Limit = 16.0 (mV/A))

Serial #	Fluence(n/cm^2)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		2.3578	
55	0	CORRELATION		2.3632	
56	0	CORRELATION		2.3085	
64	1e+12	NDD	2.2508	2.3309	0.0801
65	1e+12	NDD	2.4588	2.4529	-0.0059
66	1e+12	NDD	2.4192	2.4023	-0.0169
67	1e+12	NDD	2.6217	2.5427	-0.079
68	5e+12	NDD	2.138	2.1414	0.0034
69	5e+12	NDD	2.3495	2.3692	0.0197
70	5e+12	NDD	2.2366	2.228	-0.0086
71	5e+12	NDD	2.4481	2.4148	-0.0333
72	1e+13	NDD	2.2497	2.1613	-0.0884
73	1e+13	NDD	2.1937	2.241	0.0473
74	1e+13	NDD	2.274	2.2731	-0.0009
75	1e+13	NDD	2.4034	2.4011	-0.0023

NDD vs Post - Pre Exposure Delta

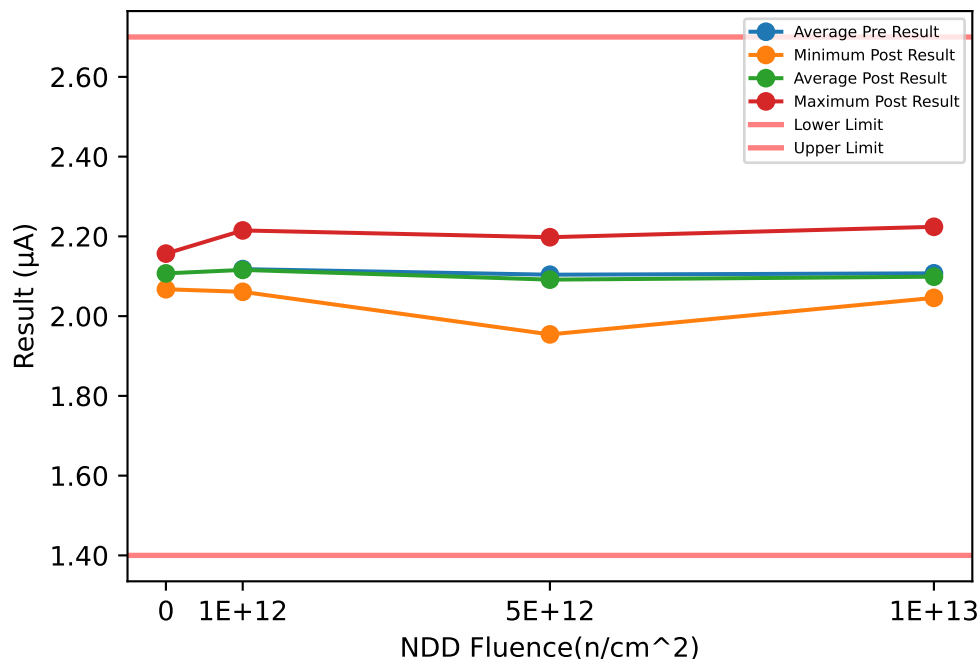


Test Statistics (mV/A)

Fluence(n/cm^2)	Pre Exposure Min	Pre Exposure Avg	Pre Exposure Max	Pre Exposure Std	Post Exposure Min	Post Exposure Avg	Post Exposure Max	Post Exposure Std	Min Delta	Avg Delta	Max Delta	Std Delta
0					2.3085	2.3432	2.3632	0.030143				
1e+12	2.2508	2.4376	2.6217	0.15229	2.3309	2.4322	2.5427	0.089059	-0.079	-0.005425	0.0801	0.065472
5e+12	2.138	2.2931	2.4481	0.13473	2.1414	2.2884	2.4148	0.12618	-0.0333	-0.0047	0.0197	0.022317
1e+13	2.1937	2.2802	2.4034	0.088749	2.1613	2.2691	2.4011	0.09975	-0.0884	-0.011075	0.0473	0.056472

Device Test: 20.1 TIMING|CURRENT/SS/2.25/0.6//10//@I_SS

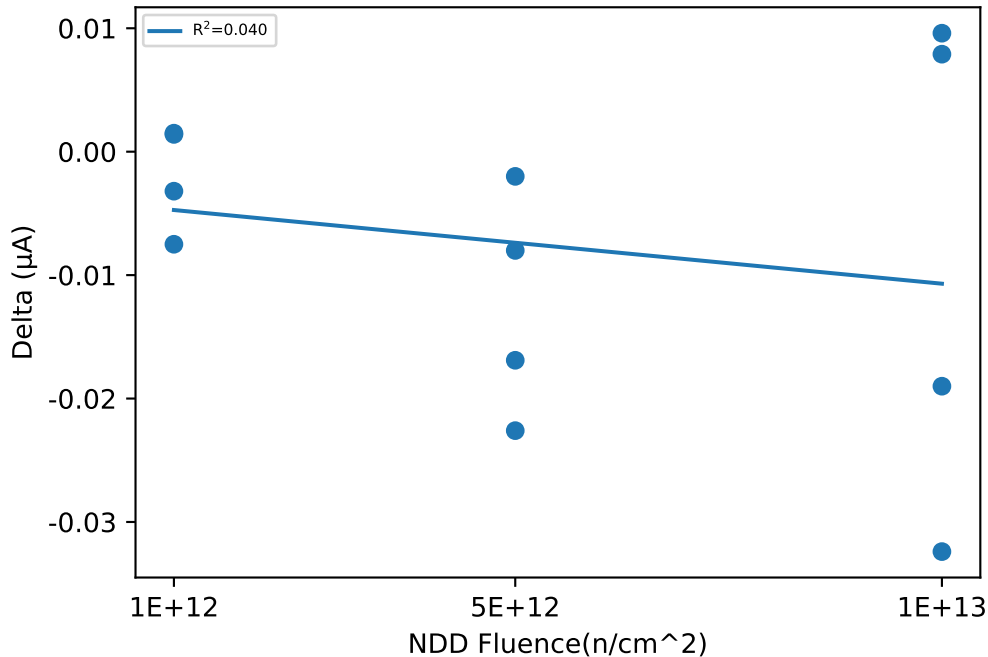
NDD vs Result Stats



Test Results (Lower Limit = 1.4, Upper Limit = 2.7 (µA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		2.1568	
55	0	CORRELATION		2.0674	
56	0	CORRELATION		2.0974	
64	1e+12	NDD	2.0596	2.061	0.0014
65	1e+12	NDD	2.2134	2.2149	0.0015
66	1e+12	NDD	2.0991	2.0916	-0.0075
67	1e+12	NDD	2.0995	2.0963	-0.0032
68	5e+12	NDD	1.9562	1.9542	-0.002
69	5e+12	NDD	2.1839	2.167	-0.0169
70	5e+12	NDD	2.0696	2.047	-0.0226
71	5e+12	NDD	2.2059	2.1979	-0.008
72	1e+13	NDD	2.0782	2.0458	-0.0324
73	1e+13	NDD	2.0565	2.0661	0.0096
74	1e+13	NDD	2.0787	2.0597	-0.019
75	1e+13	NDD	2.2161	2.224	0.0079

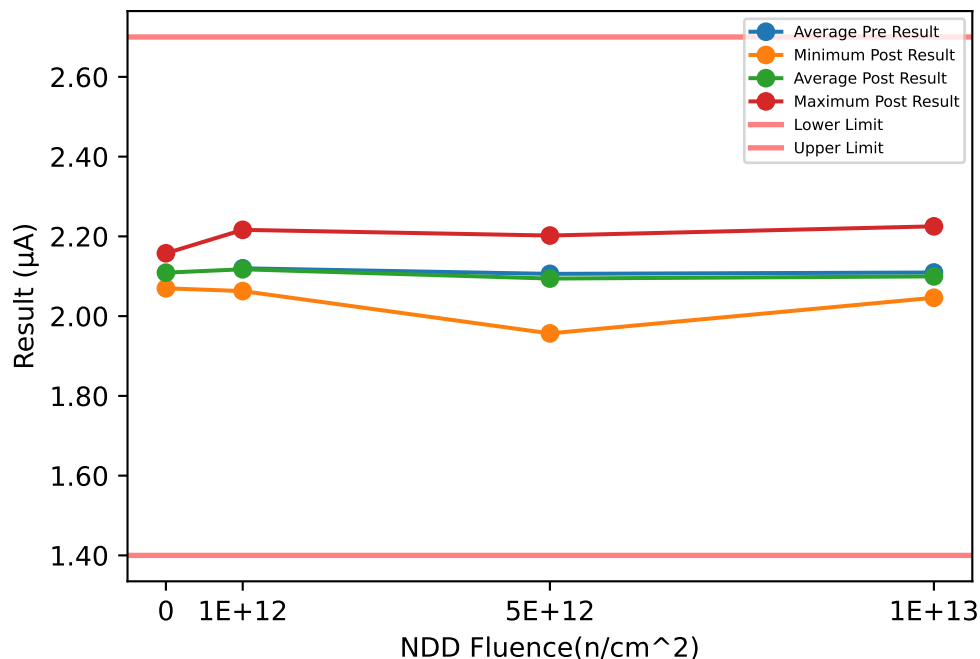
NDD vs Post - Pre Exposure Delta



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					2.0674	2.1072	2.1568	0.045499				
1e+12	2.0596	2.1179	2.2134	0.06636	2.061	2.1159	2.2149	0.067798	-0.0075	-0.00195	0.0015	0.0043008
5e+12	1.9562	2.1039	2.2059	0.11517	1.9542	2.0915	2.1979	0.11233	-0.0226	-0.012375	-0.002	0.0091617
1e+13	2.0565	2.1074	2.2161	0.073218	2.0458	2.0989	2.224	0.083829	-0.0324	-0.008475	0.0096	0.02064

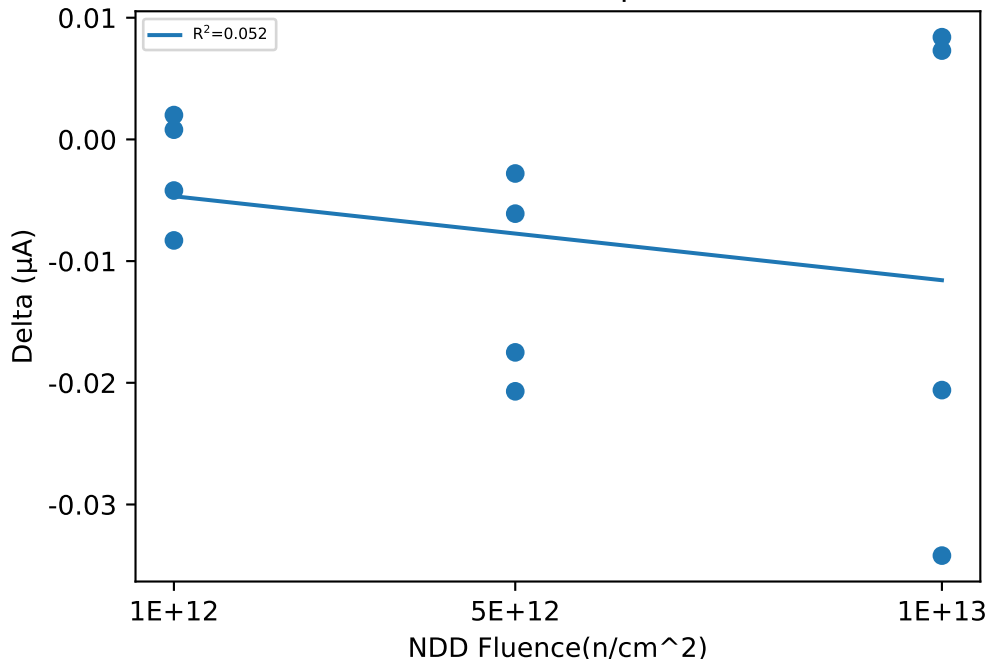
NDD vs Result Stats



Test Results (Lower Limit = 1.4, Upper Limit = 2.7 (µA))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		2.1576	
55	0	CORRELATION		2.0698	
56	0	CORRELATION		2.0997	
64	1e+12	NDD	2.062	2.0628	0.0008
65	1e+12	NDD	2.2144	2.2164	0.002
66	1e+12	NDD	2.1007	2.0924	-0.0083
67	1e+12	NDD	2.1026	2.0984	-0.0042
68	5e+12	NDD	1.9595	1.9567	-0.0028
69	5e+12	NDD	2.186	2.1685	-0.0175
70	5e+12	NDD	2.0703	2.0496	-0.0207
71	5e+12	NDD	2.2082	2.2021	-0.0061
72	1e+13	NDD	2.0803	2.0461	-0.0342
73	1e+13	NDD	2.0583	2.0667	0.0084
74	1e+13	NDD	2.0813	2.0607	-0.0206
75	1e+13	NDD	2.2179	2.2252	0.0073

NDD vs Post - Pre Exposure Delta

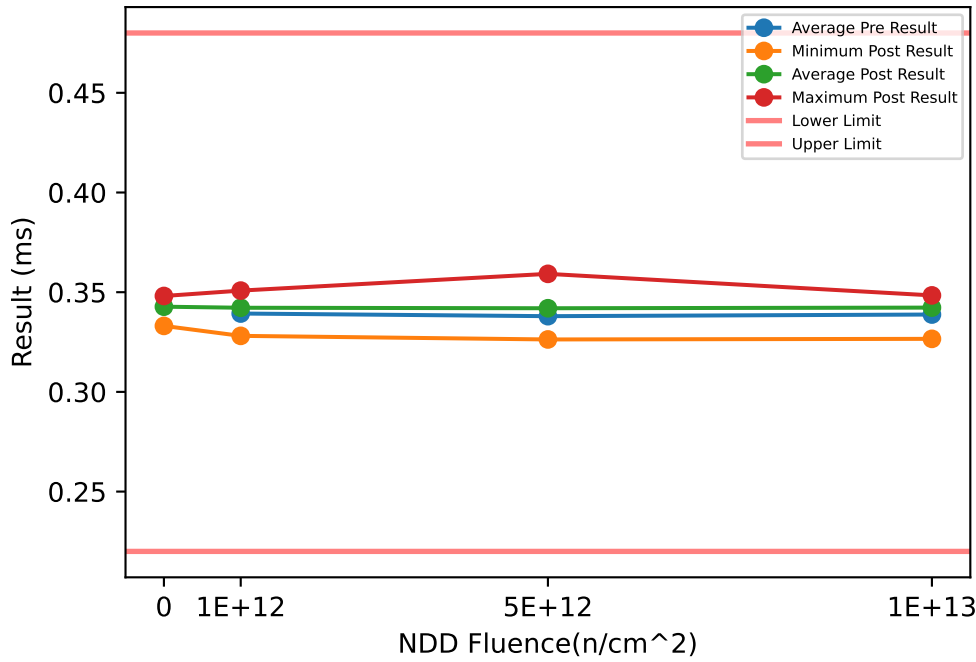


Test Statistics (µA)

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					2.0698	2.109	2.1576	0.044638				
1e+12	2.062	2.1199	2.2144	0.065703	2.0628	2.1175	2.2164	0.067745	-0.0083	-0.002425	0.002	0.0047486
5e+12	1.9595	2.106	2.2082	0.11486	1.9567	2.0942	2.2021	0.11263	-0.0207	-0.011775	-0.0028	0.0086639
1e+13	2.0583	2.1094	2.2179	0.073075	2.0461	2.0997	2.2252	0.084129	-0.0342	-0.009775	0.0084	0.0211

Device Test: 20.3 LEVEL|TIMING/SS/5/3.3//10//@TSS_1NF

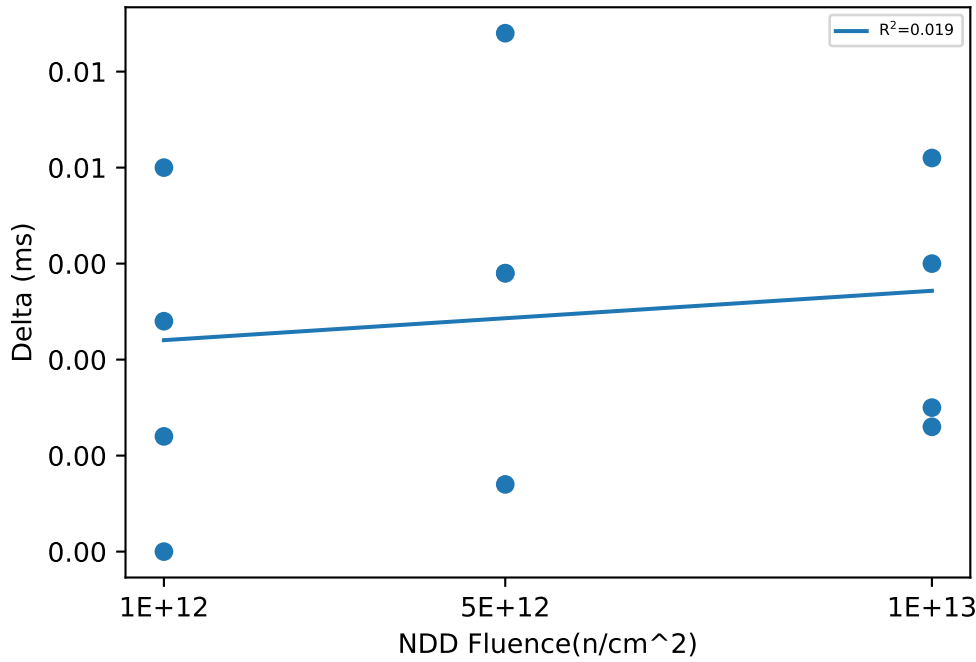
NDD vs Result Stats



Test Results (Lower Limit = 0.22, Upper Limit = 0.48 (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		0.3331	
55	0	CORRELATION		0.3481	
56	0	CORRELATION		0.347	
64	1e+12	NDD	0.3498	0.3508	0.001
65	1e+12	NDD	0.3247	0.3281	0.0034
66	1e+12	NDD	0.3381	0.3403	0.0022
67	1e+12	NDD	0.3446	0.3496	0.005
68	5e+12	NDD	0.3575	0.3592	0.0017
69	5e+12	NDD	0.3261	0.3325	0.0064
70	5e+12	NDD	0.3459	0.3498	0.0039
71	5e+12	NDD	0.3224	0.3263	0.0039
72	1e+13	NDD	0.3429	0.348	0.0051
73	1e+13	NDD	0.3461	0.3484	0.0023
74	1e+13	NDD	0.3421	0.3461	0.004
75	1e+13	NDD	0.3241	0.3266	0.0025

NDD vs Post - Pre Exposure Delta

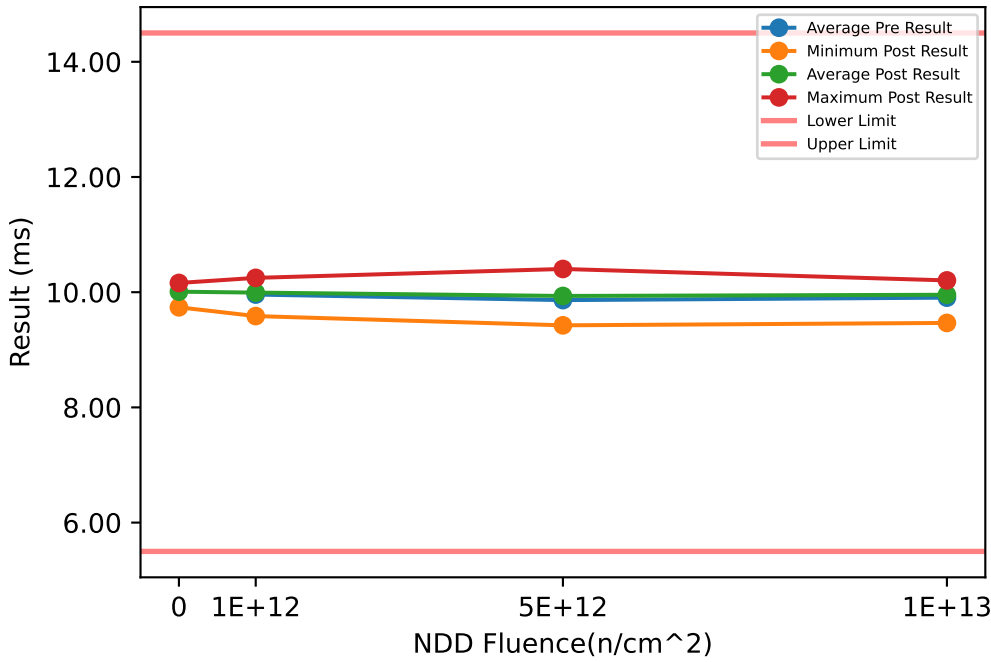


Test Statistics (ms)

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					0.3331	0.34273	0.3481	0.0083608				
1e+12	0.3247	0.3393	0.3498	0.010847	0.3281	0.3422	0.3508	0.010506	0.001	0.0029	0.005	0.0017088
5e+12	0.3224	0.33798	0.3575	0.01661	0.3263	0.34195	0.3592	0.015203	0.0017	0.003975	0.0064	0.0019207
1e+13	0.3241	0.3388	0.3461	0.0099512	0.3266	0.34227	0.3484	0.010498	0.0023	0.003475	0.0051	0.0013226

Device Test: 20.4 LEVEL|TIMING/SS/5/3.3//10//@TSS_33NF

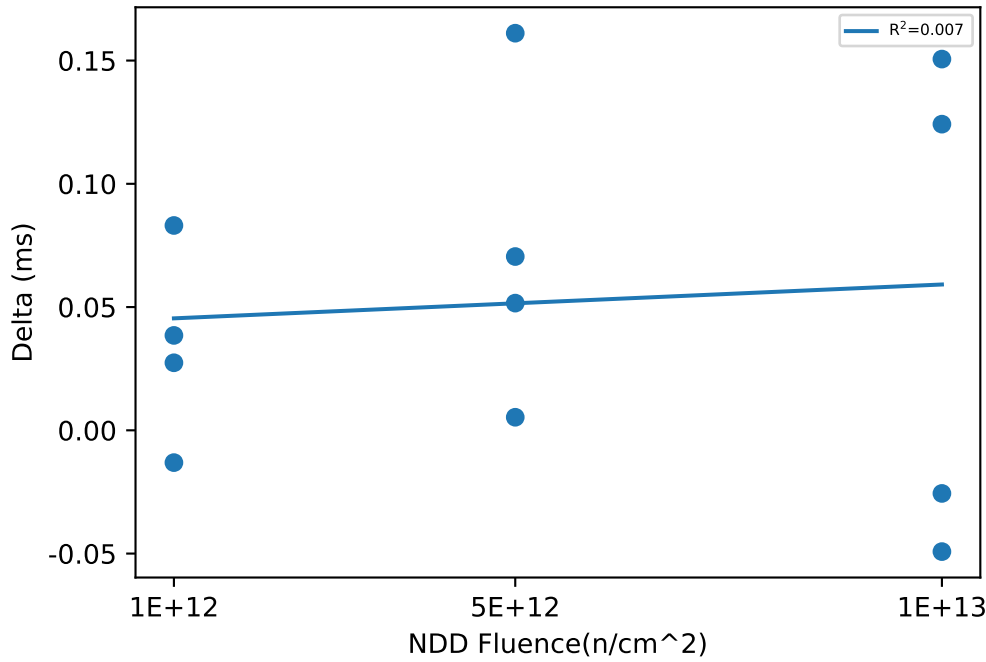
NDD vs Result Stats



Test Results (Lower Limit = 5.5, Upper Limit = 14.5 (ms))

Serial #	Fluence(n/cm ²)	Exposure Conditions	Pre Result	Post Result	Delta
20	0	CORRELATION		9.7378	
55	0	CORRELATION		10.128	
56	0	CORRELATION		10.161	
64	1e+12	NDD	10.21	10.249	0.0385
65	1e+12	NDD	9.5984	9.5853	-0.0131
66	1e+12	NDD	9.8546	9.9377	0.0831
67	1e+12	NDD	10.173	10.2	0.0274
68	5e+12	NDD	10.352	10.403	0.0516
69	5e+12	NDD	9.5911	9.6616	0.0705
70	5e+12	NDD	10.088	10.249	0.1611
71	5e+12	NDD	9.4196	9.4249	0.0053
72	1e+13	NDD	9.9904	10.141	0.1506
73	1e+13	NDD	10.254	10.205	-0.0492
74	1e+13	NDD	9.8847	10.009	0.1242
75	1e+13	NDD	9.4921	9.4665	-0.0256

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					9.7378	10.009	10.161	0.2353				
1e+12	9.5984	9.959	10.21	0.28853	9.5853	9.993	10.249	0.30419	-0.0131	0.033975	0.0831	0.039552
5e+12	9.4196	9.8627	10.352	0.4321	9.4249	9.9348	10.403	0.46658	0.0053	0.072125	0.1611	0.065335
1e+13	9.4921	9.9053	10.254	0.31622	9.4665	9.9553	10.205	0.33592	-0.0492	0.05	0.1506	0.10195

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