

TPS7H3302-SEP and TPS7H3302-SP Neutron Displacement Damage (NDD) Characterization Report



ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the TPS7H3302-SEP and TPS7H3302-SP double data rate (DDR) termination regulators. Both the TPS7H3302-SP and TPS7H3302-SEP showed a strong degree of hardness to neutron irradiation up to fluence level $1 \times 10^{13} \text{ n / cm}^2$.

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

Table of Contents

1 Device Information	2
1.1 Product Description.....	2
1.2 Device Details.....	2
2 Total Dose Test Setup	3
2.1 Test Overview.....	3
2.2 Test Facility.....	3
2.3 Test Setup Details.....	3
3 Test Results	4
3.1 NDD Characterization Summary.....	4
3.2 Data Sheet Electrical Parameters and Associated Tests.....	5
4 Applicable and Reference Documents	9
4.1 Applicable Documents.....	9
4.2 Reference Documents.....	9
A Appendix: NDD Report Data	10
B Revision History	11

List of Figures

Figure 1-1. TPS7H3302-SEP Device.....	2
---------------------------------------	---

List of Tables

Table 1-1. Device and Exposure Details.....	2
Table 2-1. Neutron Irradiation Conditions.....	3
Table 3-1. TPS7H3302-SEP and TPS7H3302-SP Electrical Parameters Table.....	5

Trademarks

All trademarks are the property of their respective owners.

1 Device Information

1.1 Product Description

Both the TPS7H3302-SP and TPS7H3302-SEP are double data rate (DDR) 3A termination regulators with built-in VTTREF buffer. The regulator is specifically designed to provide a complete, compact, low-noise design for space DDR termination applications such as single board computers, solid state recorders, and payload processing.

Both the TPS7H3302-SP and TPS7H3302-SEP supports DDR VTT termination applications using DDR, DDR2, DDR3, DDR3L, and DDR4. The -SEP device can be ordered under the TPS7H3302MDAPTSEP part number and the -SP device can be ordered under the 5962R1422802PYE part number, and both are available in TI's thermally enhanced 32pin DAP HTSSOP package.

1.2 Device Details

[Table 1-1](#) lists the device information and test conditions used in the NDD characterization.

Table 1-1. Device and Exposure Details

NDD Exposure Details	
TI Device	TPS7H3302-SEP. Applicable for TPS7H3302-SP (plastic)
TI Part Name	TPS7H3302MDAPTSEP. Applicable for 5962R1422802PYE
Device Function	DDR Termination Regulator
Package	32-pin HTSSOP (DAP)
Technology	LBC7
Lot Number and Lot Trace Code	2960283 and 2BC3S0K
Sample Quantity	9 + 1 control unit
Exposure Facility	Fast Neutron Irradiation (FNI) Facility of University of Massachusetts Lowell Research Reactor (UMLRR)
Neutron Fluence (1-MeV equivalent) Level	1×10^{12} , 5×10^{12} , 1×10^{13} n / cm ²
Irradiation Temperature	25°C



Figure 1-1. TPS7H3302-SEP Device

2 Total Dose Test Setup

2.1 Test Overview

General test procedures adhere to MIL-STD-883, Method 1017 as a guide for neutron irradiation. The TPS7H3302-SEP was electrically tested using the production automated test equipment (ATE) program at an ambient room temperature of 25°C before and after neutron irradiation.

2.2 Test Facility

The test facility is the Fast Neutron Irradiation (FNI) Facility of University of Massachusetts Lowell Research Reactor. The neutron fluence for this irradiation was measured using *ASTM E-265 Measuring Reaction Rates and Fast Neutron Fluence by Radioactivation of Sulfur-32* and correlated to the measured reactor power level. All irradiation conditions required under ASTM 722 were met. These conditions include neutron fluence, distribution and uncertainty. The Average Integrated Neutron Fluence 1-MeV(Si) equivalent reflects these factors.

Detailed information about the radiation facility is available at the following [link](#)

2.3 Test Setup Details

Devices were irradiated at three fluence levels in unbiased conditions: 1×10^{12} n / cm², 5×10^{12} n / cm² and 1×10^{13} n / cm².

Table 2-1. Neutron Irradiation Conditions

Group	Sample Quantity	Neutron Fluence (n / cm ²)	Bias
A	3	1×10^{12}	Unbias
B	3	5×10^{12}	Unbias
C	3	1×10^{13}	Unbias
Control unit	1	N/A	N/A

3 Test Results

3.1 NDD Characterization Summary

The results show that all devices were fully functional and within specification limits. A sample size of nine units was exposed for neutron irradiation and an additional un-irradiated control unit was used as correlation.

Overall, the TPS7H3302-SEP showed a strong degree of hardness to Neutron irradiation up to fluence level $1 \times 10^{13} \text{ n / cm}^2$. As the TPS7H3302-SP uses the same material set, the results are applicable to this orderable as well. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each fluence level. The parameters that showed a greater degree of change between pre- and post- irradiation were still within the electrical performance characteristics specified in the electrical parameters table in the data sheet. See [Section 3.2](#) for the data sheet electrical parameters and associated tests.

Electrical testing is completed for pre- and post- neutron irradiation by ATE. The ATE electrical test was completed at an ambient room temperature of 25°C. Parameters not listed in the are omitted either because there is no parametric data or because verification was completed through bench testing.

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

3.2 Data Sheet Electrical Parameters and Associated Tests

Table 3-1. TPS7H3302-SEP and TPS7H3302-SP Electrical Parameters Table

Parameter	Test Condition	TPS7H3302-SEP and TPS7H3302-SP Data Sheet				Test Number
		MIN	TYP	MAX	UNIT	
SUPPLY VOLTAGES AND CURRENTS						
I _{VDD} Quiescent current	EN = 3.3V, no load		18	30	mA	3 __IVDD_2p5_3p6, 3.2 __IVDD_1p8_3p6, 3.4 __IVDD_1p5_3p6, 3.6 __IVDD_2p5_2p925, 3.8 __IVDD_1p8_2p375, 3.10 __IVDD_1p5_2p375
I _{VDD(SHDN)} Shutdown current	EN = 0V, no load, VDDQSNS = 0V		1.75	3	mA	7.0 __ISHUT_VDDQ0_2p5_3p6, 7.1 __ISHUT_VDDQ0_1p8_3p6, 7.2 __ISHUT_VDDQ0_1p5_3p6, 7.3 __ISHUT_VDDQ0_2p5_2p925, 7.4 __ISHUT_VDDQ0_1p8_2p375, 7.5 __ISHUT_VDDQ0_1p5_2p375
	EN = 0V, no load, VDDQSNS > 0.78V		5	6	mA	6.0 __IVDD_SHDN_2p7_3p6, 6.2 __IVDD_SHDN_2p5_3p6, 6.4 __IVDD_SHDN_1p8_3p6, 6.6 __IVDD_SHDN_1p5_3p6, 6.8 __IVDD_SHDN_2p5_2p925, 6.10 __IVDD_SHDN_1p8_2p375, 6.12 __IVDD_SHDN_1p5_2p375
I _{VLDOIN} Quiescent current of VLDOIN	EN = 3.3V, no load		450	1200	µA	4.0 __IVLDOIN_2p5_2p925, 4.1 __IVLDOIN_1p8_2p375, 4.2 __IVLDOIN_1p5_2p375, 5.0 __IVLDOIN_2p5_3p6, 5.1 __IVLDOIN_1p8_3p6, 5.2 __IVLDOIN_1p5_3p6
I _{VLDOIN(SHDN)} Shutdown current of VLDOIN	EN = 0V, no load		0.5	1	µA	8.0 __IVLDOIN_SHDN_2p5_2p925, 8.1 __IVLDOIN_SHDN_1p8_2p375, 8.2 __IVLDOIN_SHDN_1p5_2p375, 9.0 __IVLDOIN_SHDN_2p5_3p6, 9.1 __IVLDOIN_SHDN_1p8_3p6, 9.2 __IVLDOIN_SHDN_1p5_3p6
I _{VDDQSNS} VDDQSNS input current	EN = 3.3V		4	6	µA	3.1 __IVDDQSNS_2p5_3p6, 3.3 __IVDDQSNS_1p8_3p6, 3.5 __IVDDQSNS_1p5_3p6, 3.7 __IVDDQSNS_2p5_2p925, 3.9 __IVDDQSNS_1p8_2p375, 3.11 __IVDDQSNS_1p5_2p375
VTT OUTPUT						
VTTNS Output DC voltage, VTT	I _{VTT} = 5mA, VDDQSNS = VLDOIN = 2.5V (DDR1)	1.24	1.25	1.26	V	21.39 __VTTVO_P5mA_2p5_3p6, 23.39 __VTTVO_P5mA_2p5_2p925
	I _{VTT} = 5mA, VDDQSNS = VLDOIN = 1.8V (DDR2)	0.89	0.9	0.91	V	21.38 __VTTVO_P5mA_1p8_3p6, 23.38 __VTTVO_P5mA_1p8_2p375
	I _{VTT} = 5mA, VDDQSNS = VLDOIN = 1.5V (DDR3)	0.745	0.752	0.759	V	21.37 __VTTVO_P5mA_1p5_3p6, 23.37 __VTTVO_P5mA_1p5_2p375
	I _{VTT} = 5mA, VDDQSNS = VLDOIN = 1.35V (DDR3L)	0.67	0.677	0.684	V	21.36 __VTTVO_P5mA_1p35_3p6, 23.36 __VTTVO_P5mA_1p35_2p375
	I _{VTT} = 5mA, VDDQSNS = VLDOIN = 1.2V (DDR4)	0.596	0.602	0.608	V	21.35 __VTTVO_P5mA_1p2_3p6, 23.35 __VTTVO_P5mA_1p2_2p375
	I _{VTT} = -5mA, VDDQSNS = VLDOIN = 2.5V (DDR1)	1.25	1.26	1.27	V	20.39 __VTTVO_N5mA_2p5_3p6, 22.39 __VTTVO_N5mA_2p5_2p925
	I _{VTT} = -5mA, VDDQSNS = VLDOIN = 1.8V (DDR2)	0.9	0.91	0.92	V	20.38 __VTTVO_N5mA_1p8_3p6, 22.38 __VTTVO_N5mA_1p8_2p375
	I _{VTT} = -5mA, VDDQSNS = VLDOIN = 1.5V (DDR3)	0.752	0.76	0.768	V	20.37 __VTTVO_N5mA_1p5_3p6, 22.37 __VTTVO_N5mA_1p5_2p375
	I _{VTT} = -5mA, VDDQSNS = VLDOIN = 1.35V (DDR3L)	0.675	0.685	0.692	V	20.36 __VTTVO_N5mA_1p35_3p6, 22.36 __VTTVO_N5mA_1p35_2p375
	I _{VTT} = -5mA, VDDQSNS = VLDOIN = 1.2V (DDR4)	0.602	0.610	0.618	V	20.35 __VTTVO_N5mA_1p2_3p6, 22.35 __VTTVO_N5mA_1p2_2p375
VTTNS Output DC voltage, VTT (continued)	-1A ≤ I _{VTT} ≤ 1A, VDDQSNS = VLDOIN = 2.5V (DDR1)	1.24	1.26	1.28	V	20.28 __VTTVO_NOLOAD_2p5_3p6, 20.29 __VTTVO_N500mA_2p5_3p6, 20.32 __VTTVO_N1A_2p5_3p6, 21.28 __VTTVO_NOLOAD2_2p5_3p6, 21.29 __VTTVO_P500mA_2p5_3p6, 21.32 __VTTVO_P1A_2p5_3p6, 22.28 __VTTVO_NOLOAD3_2p5_2p925, 22.29 __VTTVO_N500mA_2p5_2p925, 22.32 __VTTVO_N1A_2p5_2p925, 23.28 __VTTVO_NOLOAD4_2p5_2p925, 23.29 __VTTVO_P500mA_2p5_2p925, 23.32 __VTTVO_P1A_2p5_2p925
	-1A ≤ I _{VTT} ≤ 1A, VDDQSNS = VLDOIN = 1.8V (DDR2)	0.885	0.91	0.93	V	20.21 __VTTVO_NOLOAD_1p8_3p6, 20.22 __VTTVO_N500mA_1p8_3p6, 20.25 __VTTVO_N1A_1p8_3p6, 21.21 __VTTVO_NOLOAD2_1p8_3p6, 21.22 __VTTVO_P500mA_1p8_3p6, 21.25 __VTTVO_P1A_1p8_3p6, 22.21 __VTTVO_NOLOAD3_1p8_2p375, 22.22 __VTTVO_N500mA_1p8_2p375, 22.25 __VTTVO_N1A_1p8_2p375, 23.21 __VTTVO_NOLOAD4_1p8_2p375, 23.22 __VTTVO_P500mA_1p8_2p375, 23.25 __VTTVO_P1A_1p8_2p375
	-1A ≤ I _{VTT} ≤ 1A, VDDQSNS = VLDOIN = 1.5V (DDR3)	0.735	0.76	0.78	V	20.14 __VTTVO_NOLOAD_1p5_3p6, 20.15 __VTTVO_N500mA_1p5_3p6, 20.18 __VTTVO_N1A_1p5_3p6, 21.14 __VTTVO_NOLOAD2_1p5_3p6, 21.15 __VTTVO_P500mA_1p5_3p6, 21.18 __VTTVO_P1A_1p5_3p6, 22.14 __VTTVO_NOLOAD3_1p5_2p375, 22.15 __VTTVO_N500mA_1p5_2p375, 22.18 __VTTVO_N1A_1p5_2p375, 23.14 __VTTVO_NOLOAD4_1p5_2p375, 23.15 __VTTVO_P500mA_1p5_2p375, 23.18 __VTTVO_P1A_1p5_2p375
	-1A ≤ I _{VTT} ≤ 1A, VDDQSNS = VLDOIN = 1.35V (DDR3L)	0.66	0.69	0.72	V	20.7 __VTTVO_NOLOAD_1p35_3p6, 20.8 __VTTVO_N500mA_1p35_3p6, 20.11 __VTTVO_N1A_1p35_3p6, 21.7 __VTTVO_NOLOAD2_1p35_3p6, 21.8 __VTTVO_P500mA_1p35_3p6, 21.11 __VTTVO_P1A_1p35_3p6, 22.7 __VTTVO_NOLOAD3_1p35_2p375, 22.8 __VTTVO_N500mA_1p35_2p375, 22.11 __VTTVO_N1A_1p35_2p375, 23.7 __VTTVO_NOLOAD4_1p35_2p375, 23.8 __VTTVO_P500mA_1p35_2p375, 23.11 __VTTVO_P1A_1p35_2p375
-1A ≤ I _{VTT} ≤ 1A, VDDQSNS = VLDOIN = 1.2V (DDR4)	0.585	0.6	0.63	V	20 __VTTVO_NOLOAD_1p2_3p6, 20.1 __VTTVO_N500mA_1p2_3p6, 20.4 __VTTVO_N1A_1p2_3p6, 21.0 __VTTVO_NOLOAD2_1p2_3p6, 21.1 __VTTVO_P500mA_1p2_3p6, 21.4 __VTTVO_P1A_1p2_3p6, 22.0 __VTTVO_NOLOAD3_1p2_2p375, 22.1 __VTTVO_N500mA_1p2_2p375, 22.4 __VTTVO_N1A_1p2_2p375, 23.0 __VTTVO_NOLOAD4_1p2_2p375, 23.1 __VTTVO_P500mA_1p2_2p375, 23.4 __VTTVO_P1A_1p2_2p375	

Table 3-1. TPS7H3302-SEP and TPS7H3302-SP Electrical Parameters Table (continued)

Parameter	Test Condition	TPS7H3302-SEP and TPS7H3302-SP Data Sheet				Test Number
		MIN	TYP	MAX	UNIT	
V _{DO} Dropout voltage, V _{DO} = VLDOIN – VTTREF V _{DO} recorded when VTT – VTTREF = 50mV	VDDQSNS = 2.5V (DDR1), I _{VTT} = 0.5A		5	60	mV	24.1 __DROPOUT_500mA_2p5_3p6, 24.16 __DROPOUT_500mA_2p5_2p925
	VDDQSNS = 2.5V (DDR1), I _{VTT} = 1A		60	180	mV	24 __DROPOUT_1A_2p5_3p6, 24.15 __DROPOUT_1A_2p5_2p925
	VDDQSNS = 2.5V (DDR1), I _{VTT} = 2A		190	465	mV	24.10 __DROPOUT_2A_2p5_3p6, 24.25 __DROPOUT_2A_2p5_2p925
	VDDQSNS = 1.8V (DDR2), I _{VTT} = 0.5A		8	70	mV	24.3 __DROPOUT_500mA_1p8_3p6, 24.18 __DROPOUT_500mA_1p8_2p375
	VDDQSNS = 1.8V (DDR2), I _{VTT} = 1A		65	200	mV	24.2 __DROPOUT_1A_1p8_3p6, 24.17 __DROPOUT_1A_1p8_2p375
	VDDQSNS = 1.8V (DDR2), I _{VTT} = 2A		190	475	mV	24.11 __DROPOUT_2A_1p8_3p6, 24.26 __DROPOUT_2A_1p8_2p375
	VDDQSNS = 1.5V (DDR3), I _{VTT} = 0.5A		5	65	mV	24.5 __DROPOUT_500mA_1p5_3p6, 24.20 __DROPOUT_500mA_1p5_2p375
	VDDQSNS = 1.5V (DDR3), I _{VTT} = 1A		60	180	mV	24.4 __DROPOUT_1A_1p5_3p6, 24.19 __DROPOUT_1A_1p5_2p375
	VDDQSNS = 1.5V (DDR3), I _{VTT} = 2A		180	420	mV	24.12 __DROPOUT_2A_1p5_3p6, 24.27 __DROPOUT_2A_1p5_2p375
	VDDQSNS = 1.35V (DDR3L), I _{VTT} = 0.5A		4	60	mV	24.7 __DROPOUT_500mA_1p35_3p6, 24.22 __DROPOUT_500mA_1p35_2p375
	VDDQSNS = 1.35V (DDR3L), I _{VTT} = 1A		60	180	mV	24.6 __DROPOUT_1A_1p35_3p6, 24.21 __DROPOUT_1A_1p35_2p375
	VDDQSNS = 1.35V (DDR3L), I _{VTT} = 2A		175	420	mV	24.13 __DROPOUT_2A_1p35_3p6, 24.28 __DROPOUT_2A_1p35_2p375
	VDDQSNS = 1.2V (DDR4), I _{VTT} = 0.5A		4	60	mV	24.9 __DROPOUT_500mA_1p2_3p6, 24.24 __DROPOUT_500mA_1p2_2p375
	VDDQSNS = 1.2V (DDR4), I _{VTT} = 1A		60	180	mV	24.8 __DROPOUT_1A_1p2_3p6, 24.23 __DROPOUT_1A_1p2_2p375
VDDQSNS = 1.2V (DDR4), I _{VTT} = 2A		175	420	mV	24.14 __DROPOUT_2A_1p2_3p6, 24.29 __DROPOUT_2A_1p2_2p375	
VTT(TOL) VTT Tolerance to VTTREF (VTT – VTTREF)	I _{VTT} = -3A	1	18	30	mV	31.6 __VTTVO_TOL_N3A_2p5_3p6, 31.8 __VTTVO_TOL_N3A_1p8_3p6, 31.1 __VTTVO_TOL_N3A_1p5_3p6, 31.12 __VTTVO_TOL_N3A_2p5_2p925, 31.14 __VTTVO_TOL_N3A_1p8_2p375, 31.16 __VTTVO_TOL_N3A_1p5_2p375
	I _{VTT} = 3A	-30	-15	-1	mV	31.7 __VTTVO_TOL_P3A_2p5_3p6, 31.9 __VTTVO_TOL_P3A_1p8_3p6, 31.11 __VTTVO_TOL_P3A_1p5_3p6, 31.13 __VTTVO_TOL_P3A_2p5_2p925, 31.15 __VTTVO_TOL_P3A_1p8_2p375, 31.17 __VTTVO_TOL_P3A_1p5_2p375
I _{LIM_SRC_VTT} VTT sourcing current limit	Ramp output 0A to 10A, record current when VTT reaches lowest value	5		9	A	30.1 __VTTVO_ILIM_SRC_2p5_3p6, 30.3 __VTTVO_ILIM_SRC_1p8_3p6, 30.5 __VTTVO_ILIM_SRC_1p5_3p6, 31.1 __VTTVO_ILIM_SRC_2p5_2p925, 31.3 __VTTVO_ILIM_SRC_1p8_2p375, 31.5 __VTTVO_ILIM_SRC_1p5_2p375
I _{LIM_SNK_VTT} VTT sinking current limit	Ramp output 0A to -10A, record current when VTT reaches highest value	5		10	A	30 __VTTVO_ILIM_SNK_2p5_3p6, 30.2 __VTTVO_ILIM_SNK_1p8_3p6, 30.4 __VTTVO_ILIM_SNK_1p5_3p6, 31.0 __VTTVO_ILIM_SNK_2p5_2p925, 31.2 __VTTVO_ILIM_SNK_1p8_2p375, 31.4 __VTTVO_ILIM_SNK_1p5_2p375
R _{DSCHRG_VTT} discharge resistance	VDDQSNS = 0V, VTT = 0.3V, EN = 0V		7	25	Ω	34.1 __VTTVO_RDSCHRG_2p5_3p6, 34.3 __VTTVO_RDSCHRG_1p8_3p6, 34.5 __VTTVO_RDSCHRG_1p5_3p6, 35.1 __VTTVO_RDSCHRG_2p5_2p925, 35.3 __VTTVO_RDSCHRG_1p8_2p375, 35.5 __VTTVO_RDSCHRG_1p5_2p375
POWER GOOD						
V _{PG(LOW, Falling)} VTT PGOOD threshold with respect to VTTREF	PGOOD window lower falling threshold, PGOOD window lower threshold	-21	-20	-18	%	13.1 __PG_LOW_FALL_2p5_3p6, 13.7 __PG_LOW_FALL_1p8_3p6, 13.13 __PG_LOW_FALL_1p5_3p6, 13.19 __PG_LOW_FALL_2p5_2p925, 13.25 __PG_LOW_FALL_1p8_2p375, 13.31 __PG_LOW_FALL_1p5_2p375
V _{PG(LOW, Rising)} VTT PGOOD threshold with respect to VTTREF	PGOOD window lower rising threshold, PGOOD window lower threshold	-17	-15	-13	%	13.0 __PG_LOW_RISE_2p5_3p6, 13.6 __PG_LOW_RISE_1p8_3p6, 13.12 __PG_LOW_RISE_1p5_3p6, 13.18 __PG_LOW_RISE_2p5_2p925, 13.24 __PG_LOW_RISE_1p8_2p375, 13.30 __PG_LOW_RISE_1p5_2p375
V _{PG(HI, Falling)} VTT PGOOD threshold with respect to VTTREF	PGOOD window High falling threshold, PGOOD window upper threshold	13	15	17	%	13.4 __PG_UPP_FALL_2p5_3p6, 13.10 __PG_UPP_FALL_1p8_3p6, 13.16 __PG_UPP_FALL_1p5_3p6, 13.22 __PG_UPP_FALL_2p5_2p925, 13.28 __PG_UPP_FALL_1p8_2p375, 13.34 __PG_UPP_FALL_1p5_2p375
V _{PG(HI, Rising)} VTT PGOOD threshold with respect to VTTREF	PGOOD window High rising threshold, PGOOD window upper threshold	18	20	21	%	13.3 __PG_UPP_RISE_2p5_3p6, 13.9 __PG_UPP_RISE_1p8_3p6, 13.15 __PG_UPP_RISE_1p5_3p6, 13.21 __PG_UPP_RISE_2p5_2p925, 13.27 __PG_UPP_RISE_1p8_2p375, 13.33 __PG_UPP_RISE_1p5_2p375
VP _{G(HYST)} , VTT PGOOD hysteresis			5		%	13.5 __PG_UPP_HYS_2p5_3p6, 13.11 __PG_UPP_HYS_1p8_3p6, 13.17 __PG_UPP_HYS_1p5_3p6, 13.23 __PG_UPP_HYS_2p5_2p925, 13.29 __PG_UPP_HYS_1p8_2p375, 13.35 __PG_UPP_HYS_1p5_2p375
t _{PG(delay)} PGOOD startup delay			4		ms	13.38 __PG_GOOD_DELAY_2p5_3p6, 13.39 __PG_GOOD_DELAY_1p8_3p6, 13.40 __PG_GOOD_DELAY_1p5_3p6, 13.41 __PG_GOOD_DELAY_2p5_2p925, 13.42 __PG_GOOD_DELAY_1p8_2p375, 13.43 __PG_GOOD_DELAY_1p5_2p375
t _{PG_BAD(delay)} PGOOD bad delay			1.95		μA	13.44 __PG_BAD_DELAY_2p5_3p6, 13.45 __PG_BAD_DELAY_1p8_3p6, 13.46 __PG_BAD_DELAY_1p5_3p6, 13.47 __PG_BAD_DELAY_2p5_2p925, 13.48 __PG_BAD_DELAY_1p8_2p375, 13.49 __PG_BAD_DELAY_1p5_2p375
V _{PG(OL)} Power good output low	I _{PGOOD(SINK)} = 4mA			0.4	V	13.36 __PG_VOL_2p375, 13.37 __PG_VOL_3p6

Table 3-1. TPS7H3302-SEP and TPS7H3302-SP Electrical Parameters Table (continued)

Parameter	Test Condition	TPS7H3302-SEP and TPS7H3302-SP Data Sheet				Test Number
		MIN	TYP	MAX	UNIT	
I _{PG(LKG)} Power good leakage	V _{TTNS} = V _{TTREF} (P _{GOOD} high impedance), P _{GOOD} = V _{DD} + 0.2V		0.07	1	μA	2.5 __PGOOD_I_Leak_3p6, 2.7 __PGOOD_I_Leak_2p375
VDDQSNS AND VTTREF						
VDDQSNS _{UVLO} VDDQSNS UVLO turn-on threshold			750	900	mV	12.0 __VDDQSNS_UVLO_ON_2p5_3p6, 12.4 __VDDQSNS_UVLO_ON_1p8_3p6, 12.8 __VDDQSNS_UVLO_ON_1p5_3p6, 12.12 __VDDQSNS_UVLO_ON_2p5_2p925, 12.16 __VDDQSNS_UVLO_ON_1p8_2p375, 12.20 __VDDQSNS_UVLO_ON_1p5_2p375
VDDQSNS _{UVLO(HYST)} VDDQSNS UVLO hysteresis			75	150	mV	12.2 __VDDQSNS_UVLO_HYS_2p5_3p6, 12.6 __VDDQSNS_UVLO_HYS_1p8_3p6, 12.10 __VDDQSNS_UVLO_HYS_1p5_3p6, 12.14 __VDDQSNS_UVLO_HYS_2p5_2p925, 12.18 __VDDQSNS_UVLO_HYS_1p8_2p375, 12.22 __VDDQSNS_UVLO_HYS_1p5_2p375
VTTREF voltage			VDDQSNS / 2		V	
VTTREF voltage tolerance to VDDQSNS	-10mA ≤ I _{VTTREF} ≤ 10mA, VDDQSNS = 2.5V	49		51	%	18.32 __VTTREF_NOLOAD_2p5_3p6, 18.33 __VTTREF_N10mA_2p5_3p6, 18.37 __VTTREF_P10mA_2p5_3p6, 19.32 __VTTREF_NOLOAD_2p5_2p925, 19.33 __VTTREF_N10mA_2p5_2p925, 19.37 __VTTREF_P10mA_2p5_2p925, 19.72 __VTTREF_N100uA_2p5_3p6, 19.73 __VTTREF_P100uA_2p5_3p6, 19.74 __VTTREF_N500uA_2p5_3p6, 19.75 __VTTREF_P500uA_2p5_3p6, 19.76 __VTTREF_N1mA_2p5_3p6, 19.77 __VTTREF_P1mA_2p5_3p6, 19.78 __VTTREF_N3mA_2p5_3p6, 19.79 __VTTREF_P3mA_2p5_3p6, 19.112 __VTTREF_N100uA_2p5_2p925, 19.113 __VTTREF_P100uA_2p5_2p925, 19.114 __VTTREF_N500uA_2p5_2p925, 19.115 __VTTREF_P500uA_2p5_2p925, 19.116 __VTTREF_N1mA_2p5_2p925, 19.117 __VTTREF_P1mA_2p5_2p925, 19.118 __VTTREF_N3mA_2p5_2p925, 19.119 __VTTREF_P3mA_2p5_2p925
	-10mA ≤ I _{VTTREF} ≤ 10mA, VDDQSNS = 1.8V	49		51	%	18.24 __VTTREF_NOLOAD_1p8_3p6, 18.25 __VTTREF_N10mA_1p8_3p6, 18.29 __VTTREF_P10mA_1p8_3p6, 19.24 __VTTREF_NOLOAD_1p8_2p375, 19.25 __VTTREF_N10mA_1p8_2p375, 19.29 __VTTREF_P10mA_1p8_2p375, 19.64 __VTTREF_N100uA_1p8_3p6, 19.65 __VTTREF_P100uA_1p8_3p6, 19.66 __VTTREF_N500uA_1p8_3p6, 19.67 __VTTREF_P500uA_1p8_3p6, 19.68 __VTTREF_N1mA_1p8_3p6, 19.69 __VTTREF_P1mA_1p8_3p6, 19.70 __VTTREF_N3mA_1p8_3p6, 19.71 __VTTREF_P3mA_1p8_3p6, 19.104 __VTTREF_N100uA_1p8_2p375, 19.105 __VTTREF_P100uA_1p8_2p375, 19.106 __VTTREF_N500uA_1p8_2p375, 19.107 __VTTREF_P500uA_1p8_2p375, 19.108 __VTTREF_N1mA_1p8_2p375, 19.109 __VTTREF_P1mA_1p8_2p375, 19.110 __VTTREF_N3mA_1p8_2p375, 19.111 __VTTREF_P3mA_1p8_2p375
	-10mA ≤ I _{VTTREF} ≤ 10mA, VDDQSNS = 1.5V	49		51.25	%	18.17 __VTTREF_N10mA_1p5_3p6, 18.21 __VTTREF_P10mA_1p5_3p6, 19.17 __VTTREF_N10mA_1p5_2p375, 19.21 __VTTREF_P10mA_1p5_2p375
	-10mA ≤ I _{VTTREF} ≤ 10mA, VDDQSNS = 1.35V	49		51	%	18.9 __VTTREF_N10mA_1p35_3p6, 18.13 __VTTREF_P10mA_1p35_3p6, 19.9 __VTTREF_N10mA_1p35_2p375, 19.13 __VTTREF_P10mA_1p35_2p375
	-10mA ≤ I _{VTTREF} ≤ 10mA, VDDQSNS = 1.2V	49		51	%	18.1 __VTTREF_N10mA_1p2_3p6, 18.5 __VTTREF_P10mA_1p2_3p6, 19.1 __VTTREF_N10mA_1p2_2p375, 19.5 __VTTREF_P10mA_1p2_2p375
	VTTREF voltage tolerance to VDDQSNS (continued)	-3mA ≤ I _{VTTREF} ≤ 3mA, VDDQSNS = 1.5V	49		51	%
-3mA ≤ I _{VTTREF} ≤ 3mA, VDDQSNS = 1.35V		49		51	%	18.8 __VTTREF_NOLOAD_1p35_3p6, 19.8 __VTTREF_NOLOAD_1p35_2p375, 19.48 __VTTREF_N100uA_1p35_3p6, 19.49 __VTTREF_P100uA_1p35_3p6, 19.50 __VTTREF_N500uA_1p35_3p6, 19.51 __VTTREF_P500uA_1p35_3p6, 19.52 __VTTREF_N1mA_1p35_3p6, 19.53 __VTTREF_P1mA_1p35_3p6, 19.54 __VTTREF_N3mA_1p35_3p6, 19.55 __VTTREF_P3mA_1p35_3p6, 19.88 __VTTREF_N100uA_1p35_2p375, 19.89 __VTTREF_P100uA_1p35_2p375, 19.90 __VTTREF_N500uA_1p35_2p375, 19.91 __VTTREF_P500uA_1p35_2p375, 19.92 __VTTREF_N1mA_1p35_2p375, 19.93 __VTTREF_P1mA_1p35_2p375, 19.94 __VTTREF_N3mA_1p35_2p375, 19.95 __VTTREF_P3mA_1p35_2p375
-3mA ≤ I _{VTTREF} ≤ 3mA, VDDQSNS = 1.2V		49		51	%	18.0 __VTTREF_NOLOAD_1p2_3p6, 19.0 __VTTREF_NOLOAD_1p2_2p375, 19.40 __VTTREF_N100uA_1p2_3p6, 19.41 __VTTREF_P100uA_1p2_3p6, 19.42 __VTTREF_N500uA_1p2_3p6, 19.43 __VTTREF_P500uA_1p2_3p6, 19.44 __VTTREF_N1mA_1p2_3p6, 19.45 __VTTREF_P1mA_1p2_3p6, 19.46 __VTTREF_N3mA_1p2_3p6, 19.47 __VTTREF_P3mA_1p2_3p6, 19.80 __VTTREF_N100uA_1p2_2p375, 19.81 __VTTREF_P100uA_1p2_2p375, 19.82 __VTTREF_N500uA_1p2_2p375, 19.83 __VTTREF_P500uA_1p2_2p375, 19.84 __VTTREF_N1mA_1p2_2p375, 19.85 __VTTREF_P1mA_1p2_2p375, 19.86 __VTTREF_N3mA_1p2_2p375, 19.87 __VTTREF_P3mA_1p2_2p375
I _{LIM_SRC_VTTREF} VTTREF sourcing current limit	Ramp output 0A to 16.5mA, record current when VTTREF reaches peak value	35	45		mA	32.1 __VTTREF_ILIM_SRC_2p5_3p6, 32.4 __VTTREF_ILIM_SRC_1p8_3p6, 32.7 __VTTREF_ILIM_SRC_1p5_3p6, 33.1 __VTTREF_ILIM_SRC_2p5_2p925, 33.4 __VTTREF_ILIM_SRC_1p8_2p375, 33.7 __VTTREF_ILIM_SRC_1p5_2p375

Table 3-1. TPS7H3302-SEP and TPS7H3302-SP Electrical Parameters Table (continued)

Parameter	Test Condition	TPS7H3302-SEP and TPS7H3302-SP Data Sheet				Test Number
		MIN	TYP	MAX	UNIT	
I _{LIM_SNK_VTTREF} VTTREF sinking current limit	Ramp output 0A to -55mA, record current when VTTREF reaches half original value	12	40		mA	32.0 __VTTREF_ILIM_SNK_2p5_3p6, 32.3 __VTTREF_ILIM_SNK_1p8_3p6, 32.6 __VTTREF_ILIM_SNK_1p5_3p6, 33.0 __VTTREF_ILIM_SNK_2p5_2p925, 33.3 __VTTREF_ILIM_SNK_1p8_2p375, 33.6 __VTTREF_ILIM_SNK_1p5_2p375
I _{VTTREF(dis)} VTTREF discharge current	EN = 0V, VDDQSNS = 0V, VTTREF = 0.5V		1.3		mA	32.2 __VTTREF_IDISCHRG_2p5_3p6, 32.5 __VTTREF_IDISCHRG_1p8_3p6, 32.8 __VTTREF_IDISCHRG_1p5_3p6, 33.2 __VTTREF_IDISCHRG_2p5_2p925, 33.5 __VTTREF_IDISCHRG_1p8_2p375, 33.8 __VTTREF_IDISCHRG_1p5_2p375
UVLO AND ENABLE						
V _{DDUVLO} VDD UVLO turn-on threshold			2.18	2.3	V	11.1 __VDDUVLO_ON_2p5, 11.4 __VDDUVLO_ON_1p8, 11.7 __VDDUVLO_ON_1p5
V _{DDUVLO(HYST)} VDD UVLO hysteresis			40		mV	11.2 __VDDUVLO_HYS_2p5, 11.5 __VDDUVLO_HYS_1p8, 11.8 __VDDUVLO_HYS_1p5
V _{IH_EN} Enable high-level input voltage (turn-on)				1.7	V	10.1 __EN_THR_ON_2p5_3p6, 10.3 __EN_THR_ON_1p8_3p6, 10.5 __EN_THR_ON_1p5_3p6, 10.7 __EN_THR_ON_2p5_2p925, 10.9 __EN_THR_ON_1p8_2p375, 10.11 __EN_THR_ON_1p5_2p375
V _{IL_EN} Enable low-level input voltage (turn-off)		0.3			V	10.0 __EN_THR_OFF_2p5_3p6, 10.2 __EN_THR_OFF_1p8_3p6, 10.4 __EN_THR_OFF_1p5_3p6, 10.6 __EN_THR_OFF_2p5_2p925, 10.8 __EN_THR_OFF_1p8_2p375, 10.10 __EN_THR_OFF_1p5_2p375
V _{EN(HYS)} Enable hysteresis voltage			700		mV	10.12 __EN_THR_HYS_2p5_3p6, 10.13 __EN_THR_HYS_1p8_3p6, 10.14 __EN_THR_HYS_1p5_3p6, 10.15 __EN_THR_HYS_2p5_2p925, 10.16 __EN_THR_HYS_1p8_2p375, 10.17 __EN_THR_HYS_1p5_2p375
I _{EN(LKG)} Enable input leakage current		-1		1	μA	2 __EN_I_Leak_3p6, 2.1 __EN_I_Leak_2p375

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, [TPS7H3302-SP and TPS7H3302-SEP 3-A DDR Radiation Hardened Termination Regulator](#), data sheet.
- Texas Instruments, [TPS7H3302-QMLP Total Ionizing Dose \(TID\) Report](#), radiation report.
- Texas Instruments, [TPS7H3302-SEP Total Ionizing Dose Report](#), radiation report.
- Texas Instruments, [Single Event Effects Report of the TPS7H3302-SEP Sink and Source DDR Termination LDO Regulator](#), radiation report.
- Texas Instruments, [Heavy Ion Orbital Environment Single-Event Effects Estimations](#), application note.
- Texas Instruments, [TPS7H3302EVM \(LP085\)](#), user's guide.

4.2 Reference Documents

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

A Appendix: NDD Report Data

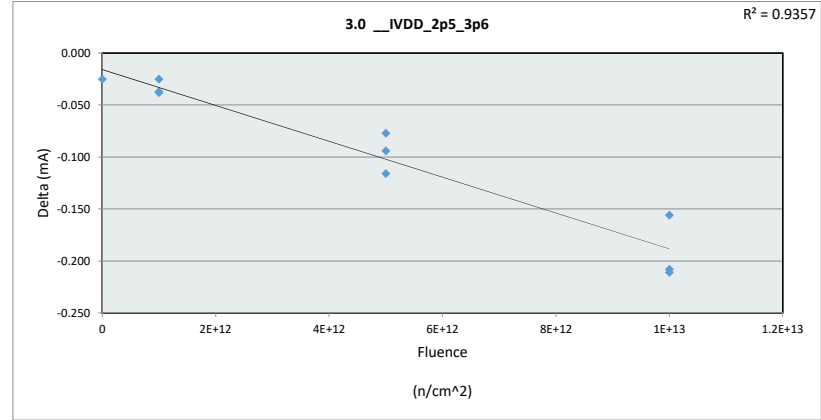
This appendix contains the NDD report data.

TPS7H3302-SEP
Neutron Displacement Damage (NDD)
Characterization Report

Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

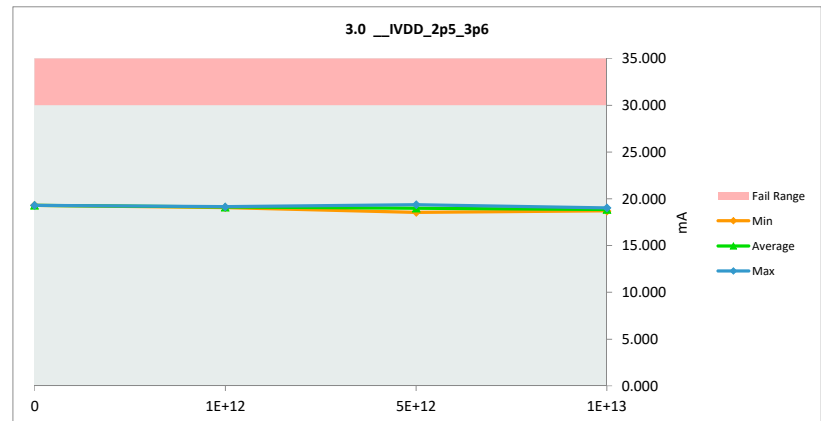
3.0 __IVDD_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	30
Min Limit	30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.309	19.284	-0.025
1E+12	2	19.079	19.054	-0.025
1E+12	3	19.182	19.144	-0.038
1E+12	4	19.137	19.100	-0.037
5E+12	5	19.476	19.360	-0.116
5E+12	6	18.655	18.561	-0.094
5E+12	7	19.124	19.047	-0.077
1E+13	8	18.895	18.687	-0.208
1E+13	9	19.249	19.038	-0.211
1E+13	10	19.010	18.854	-0.156
	Max	19.476	19.360	-0.025
	Average	19.112	19.013	-0.099
	Min	18.655	18.561	-0.211
	Std Dev	0.227	0.249	0.072



3.0 __IVDD_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	30
Min Limit	30

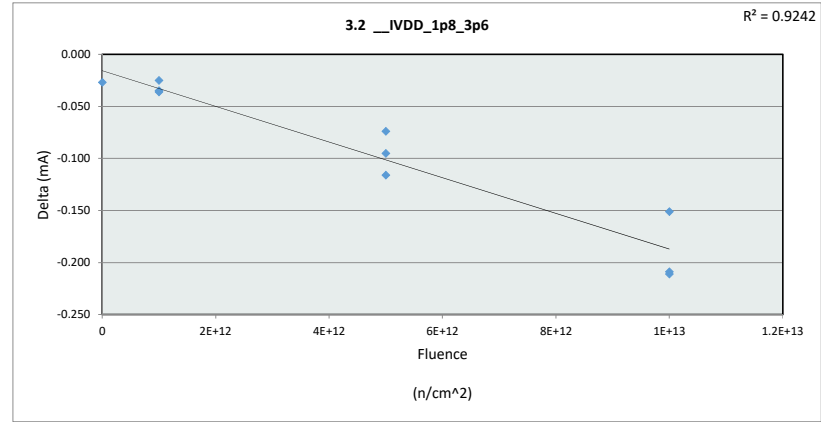
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	19.284	19.054	18.561	18.687
Average	19.284	19.099	18.989	18.860
Max	19.284	19.144	19.360	19.038
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

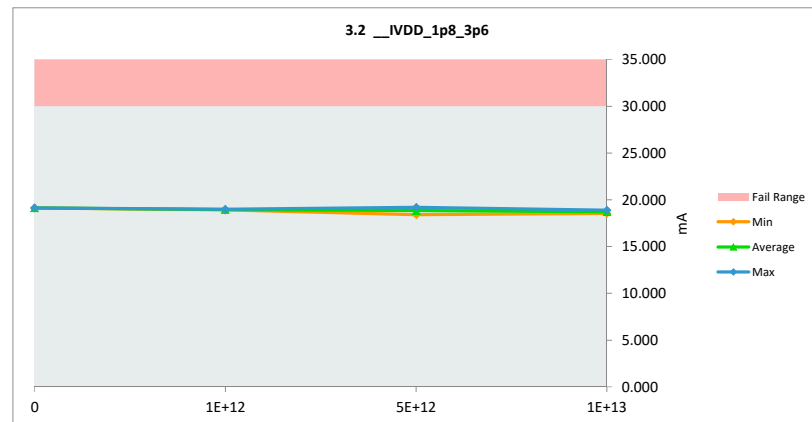
3.2 __IVDD_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	30
Min Limit	30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.154	19.127	-0.027
1E+12	2	18.925	18.900	-0.025
1E+12	3	19.028	18.992	-0.036
1E+12	4	18.990	18.955	-0.035
5E+12	5	19.319	19.203	-0.116
5E+12	6	18.507	18.412	-0.095
5E+12	7	18.970	18.896	-0.074
1E+13	8	18.745	18.536	-0.209
1E+13	9	19.096	18.885	-0.211
1E+13	10	18.857	18.706	-0.151
	Max	19.319	19.203	-0.025
	Average	18.959	18.861	-0.098
	Min	18.507	18.412	-0.211
	Std Dev	0.225	0.247	0.072



3.2 __IVDD_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	30
Min Limit	30

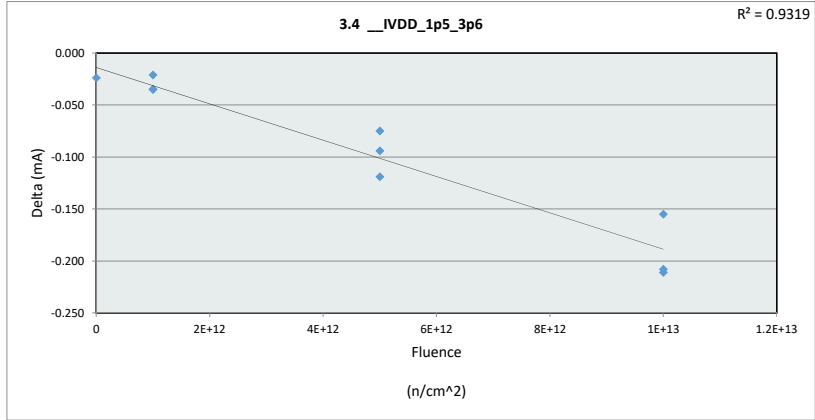
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	19.127	18.900	18.412	18.536
Average	19.127	18.949	18.837	18.709
Max	19.127	18.992	19.203	18.885
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

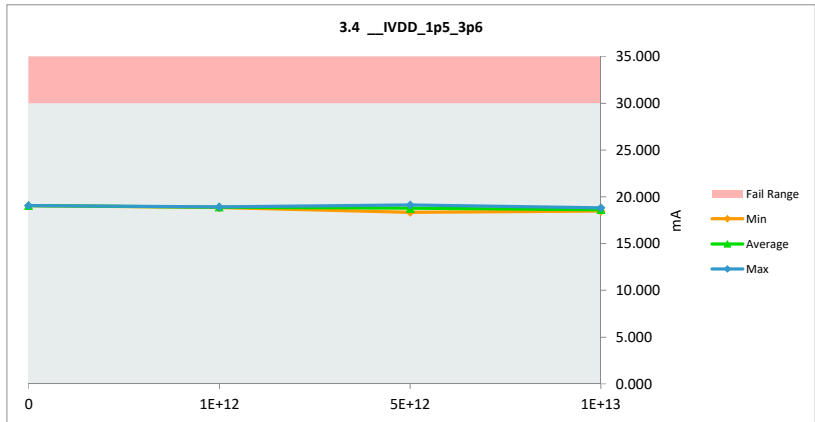
3.4 __IVDD_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	30
Min Limit	30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.074	19.050	-0.024
1E+12	2	18.847	18.826	-0.021
1E+12	3	18.951	18.916	-0.035
1E+12	4	18.918	18.883	-0.035
5E+12	5	19.239	19.120	-0.119
5E+12	6	18.428	18.334	-0.094
5E+12	7	18.891	18.816	-0.075
1E+13	8	18.666	18.458	-0.208
1E+13	9	19.016	18.805	-0.211
1E+13	10	18.778	18.623	-0.155
	Max	19.239	19.120	-0.021
	Average	18.881	18.783	-0.098
	Min	18.428	18.334	-0.211
	Std Dev	0.224	0.247	0.073



3.4 __IVDD_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	30
Min Limit	30

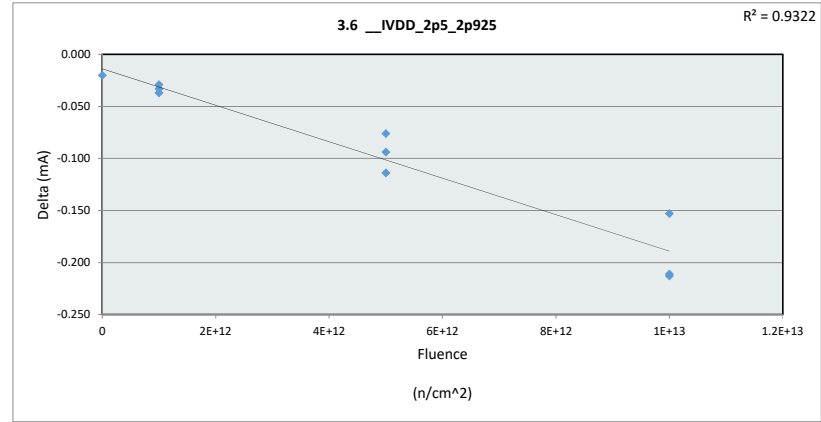
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	19.050	18.826	18.334	18.458
Average	19.050	18.875	18.757	18.629
Max	19.050	18.916	19.120	18.805
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

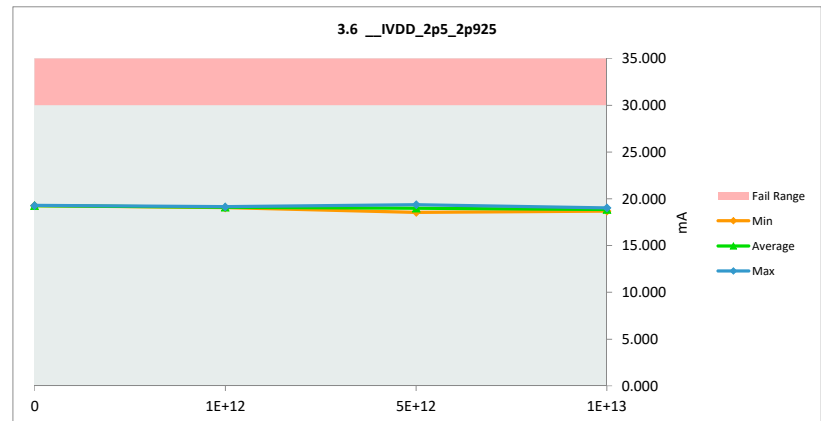
3.6 __IVDD_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	30 30
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.295	19.275	-0.020
1E+12	2	19.071	19.042	-0.029
1E+12	3	19.170	19.137	-0.033
1E+12	4	19.124	19.087	-0.037
5E+12	5	19.466	19.352	-0.114
5E+12	6	18.641	18.547	-0.094
5E+12	7	19.116	19.040	-0.076
1E+13	8	18.888	18.677	-0.211
1E+13	9	19.241	19.028	-0.213
1E+13	10	18.994	18.841	-0.153
	Max	19.466	19.352	-0.020
	Average	19.101	19.003	-0.098
	Min	18.641	18.547	-0.213
	Std Dev	0.227	0.251	0.073



3.6 __IVDD_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	30 mA
Min Limit	mA

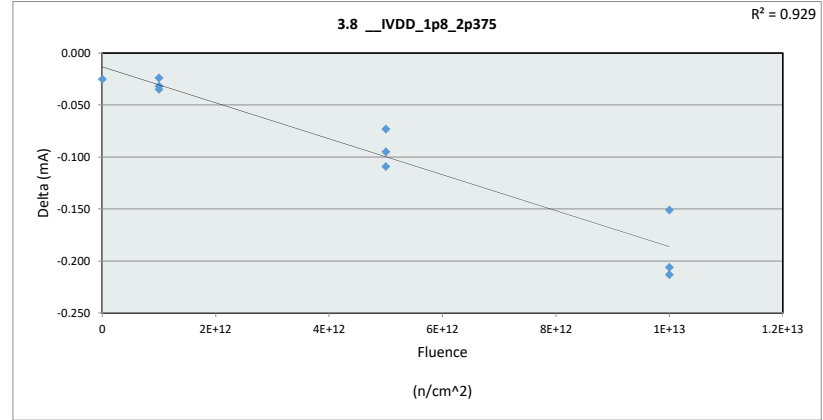
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	19.275	19.042	18.547	18.677
Average	19.275	19.089	18.980	18.849
Max	19.275	19.137	19.352	19.028
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

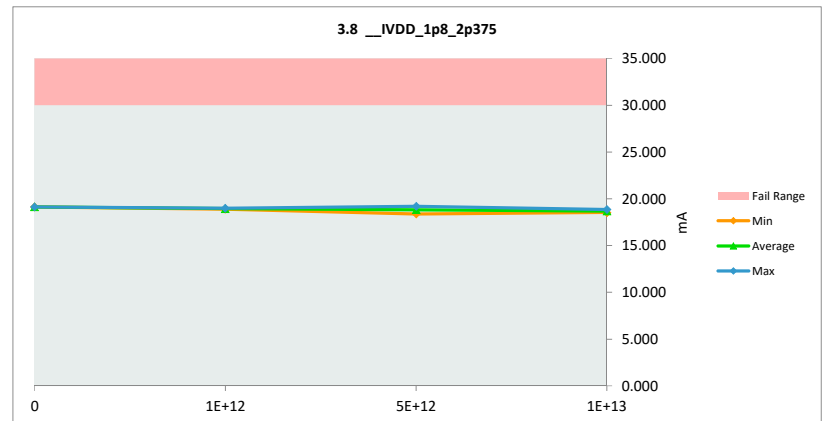
3.8 __IVDD_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	30
Min Limit	30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.138	19.113	-0.025
1E+12	2	18.913	18.889	-0.024
1E+12	3	19.016	18.984	-0.032
1E+12	4	18.971	18.936	-0.035
5E+12	5	19.301	19.192	-0.109
5E+12	6	18.483	18.388	-0.095
5E+12	7	18.955	18.882	-0.073
1E+13	8	18.734	18.528	-0.206
1E+13	9	19.082	18.869	-0.213
1E+13	10	18.837	18.686	-0.151
	Max	19.301	19.192	-0.024
	Average	18.943	18.847	-0.096
	Min	18.483	18.388	-0.213
	Std Dev	0.226	0.249	0.073



3.8 __IVDD_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	30
Min Limit	30

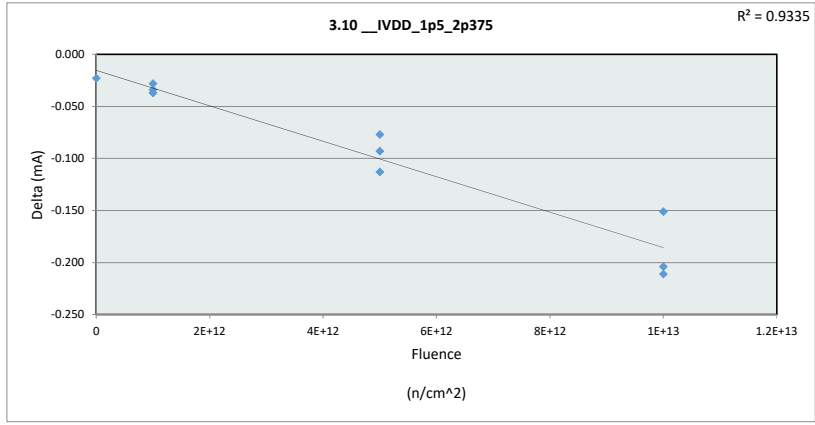
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	19.113	18.889	18.388	18.528
Average	19.113	18.936	18.821	18.694
Max	19.113	18.984	19.192	18.869
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

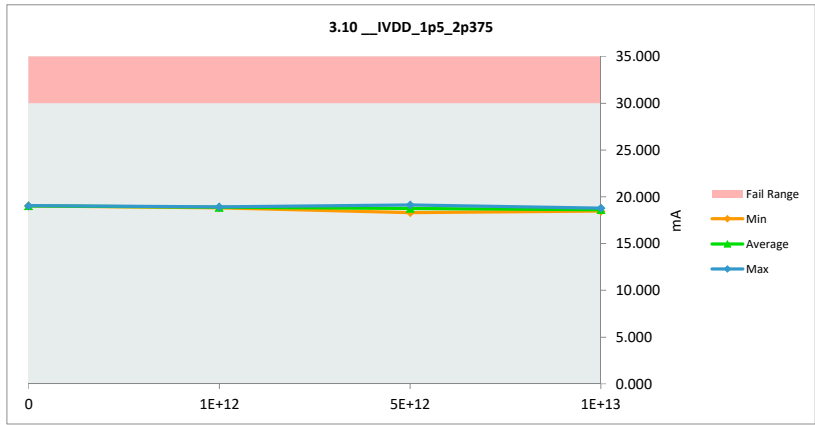
3.10_IVDD_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	30
Min Limit	30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.065	19.042	-0.023
1E+12	2	18.842	18.814	-0.028
1E+12	3	18.945	18.911	-0.034
1E+12	4	18.905	18.868	-0.037
5E+12	5	19.232	19.119	-0.113
5E+12	6	18.414	18.321	-0.093
5E+12	7	18.888	18.811	-0.077
1E+13	8	18.663	18.459	-0.204
1E+13	9	19.008	18.797	-0.211
1E+13	10	18.769	18.618	-0.151
	Max	19.232	19.119	-0.023
	Average	18.873	18.776	-0.097
	Min	18.414	18.321	-0.211
	Std Dev	0.225	0.247	0.071



3.10_IVDD_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	30
Min Limit	30

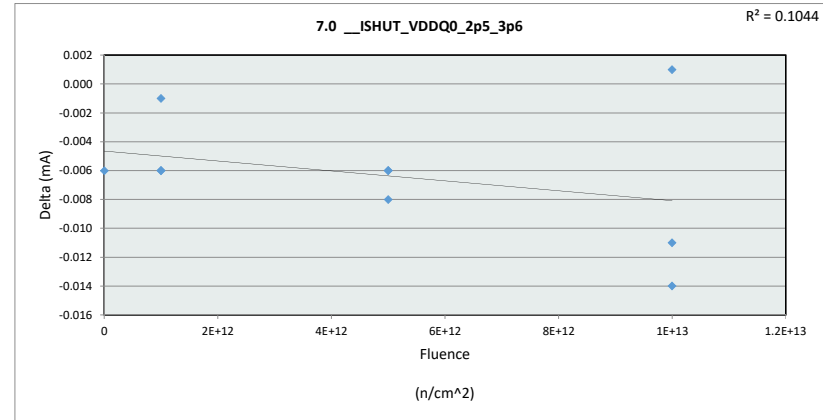
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	19.042	18.814	18.321	18.459
Average	19.042	18.864	18.750	18.625
Max	19.042	18.911	19.119	18.797
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

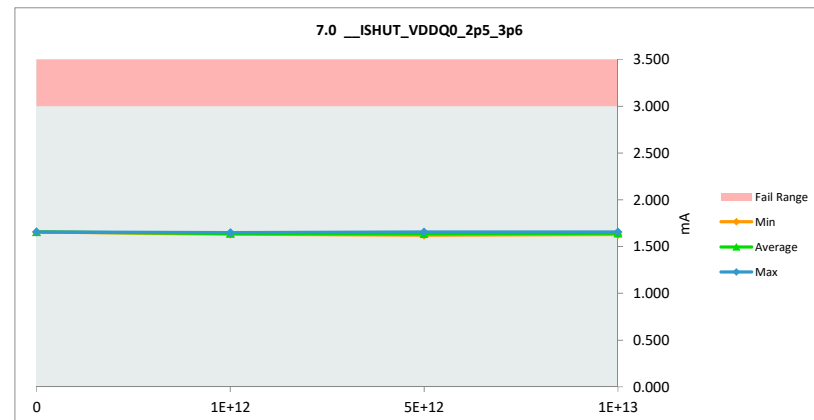
7.0 __ISHUT_VDDQ0_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	3 3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.664	1.658	-0.006
1E+12	2	1.637	1.631	-0.006
1E+12	3	1.656	1.650	-0.006
1E+12	4	1.635	1.634	-0.001
5E+12	5	1.662	1.656	-0.006
5E+12	6	1.630	1.622	-0.008
5E+12	7	1.635	1.629	-0.006
1E+13	8	1.655	1.644	-0.011
1E+13	9	1.643	1.629	-0.014
1E+13	10	1.654	1.655	0.001
	Max	1.664	1.658	0.001
	Average	1.647	1.641	-0.006
	Min	1.630	1.622	-0.014
	Std Dev	0.012	0.013	0.004



7.0 __ISHUT_VDDQ0_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	3 mA
Min Limit	

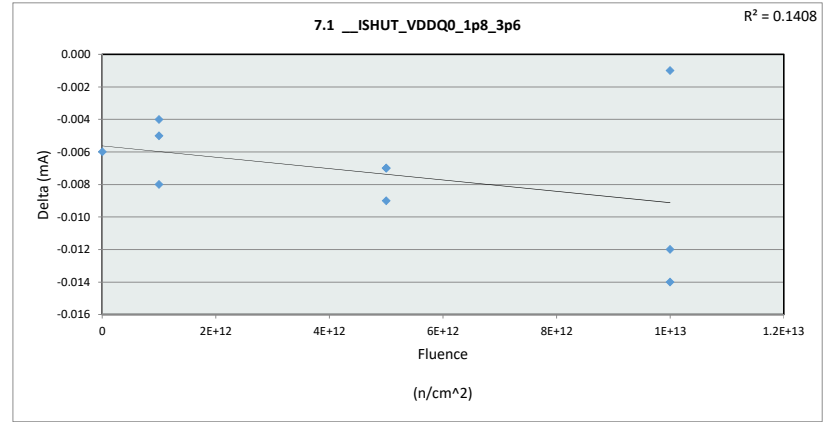
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.658	1.631	1.622	1.629
Average	1.658	1.638	1.636	1.643
Max	1.658	1.650	1.656	1.655
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

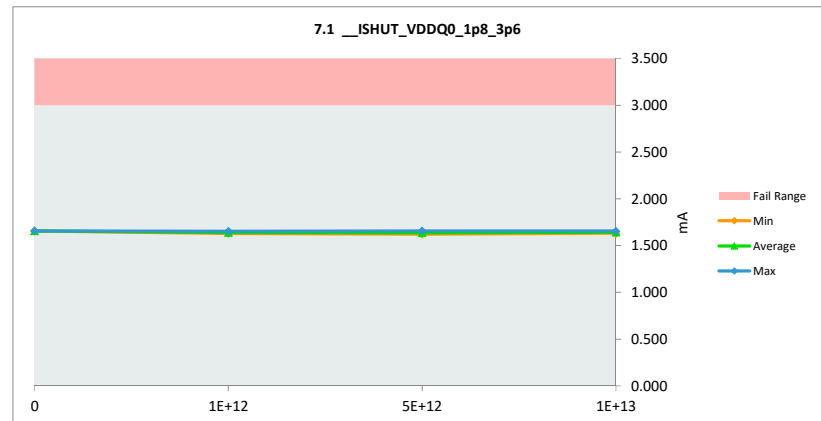
7.1 __ISHUT_VDDQ0_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	3 3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.662	1.656	-0.006
1E+12	2	1.634	1.629	-0.005
1E+12	3	1.657	1.653	-0.004
1E+12	4	1.640	1.632	-0.008
5E+12	5	1.664	1.655	-0.009
5E+12	6	1.630	1.623	-0.007
5E+12	7	1.633	1.626	-0.007
1E+13	8	1.657	1.643	-0.014
1E+13	9	1.642	1.630	-0.012
1E+13	10	1.655	1.654	-0.001
	Max	1.664	1.656	-0.001
	Average	1.647	1.640	-0.007
	Min	1.630	1.623	-0.014
	Std Dev	0.013	0.013	0.004



7.1 __ISHUT_VDDQ0_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	3 mA
Min Limit	mA

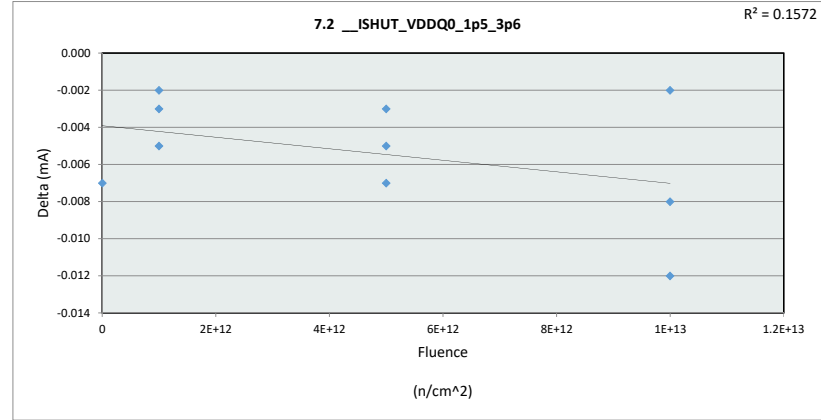
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.656	1.629	1.623	1.630
Average	1.656	1.638	1.635	1.642
Max	1.656	1.653	1.655	1.654
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

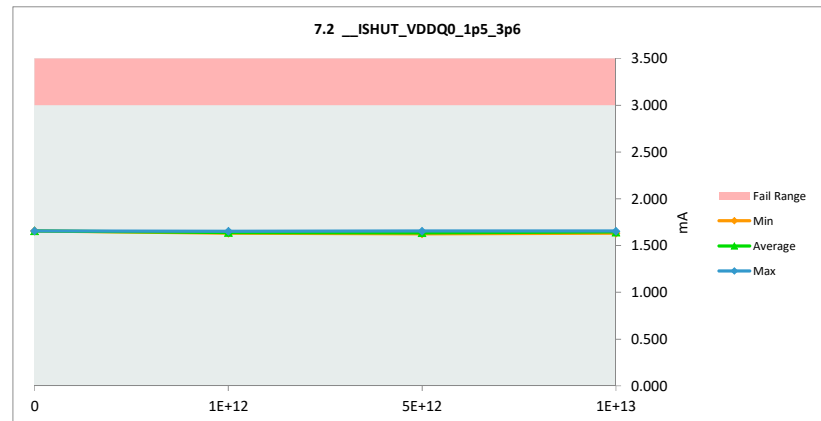
7.2 __ISHUT_VDDQ0_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	3 3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.663	1.656	-0.007
1E+12	2	1.633	1.631	-0.002
1E+12	3	1.657	1.652	-0.005
1E+12	4	1.635	1.632	-0.003
5E+12	5	1.661	1.654	-0.007
5E+12	6	1.627	1.624	-0.003
5E+12	7	1.633	1.628	-0.005
1E+13	8	1.656	1.644	-0.012
1E+13	9	1.640	1.632	-0.008
1E+13	10	1.656	1.654	-0.002
	Max	1.663	1.656	-0.002
	Average	1.646	1.641	-0.005
	Min	1.627	1.624	-0.012
	Std Dev	0.014	0.013	0.003



7.2 __ISHUT_VDDQ0_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	3 mA
Min Limit	mA

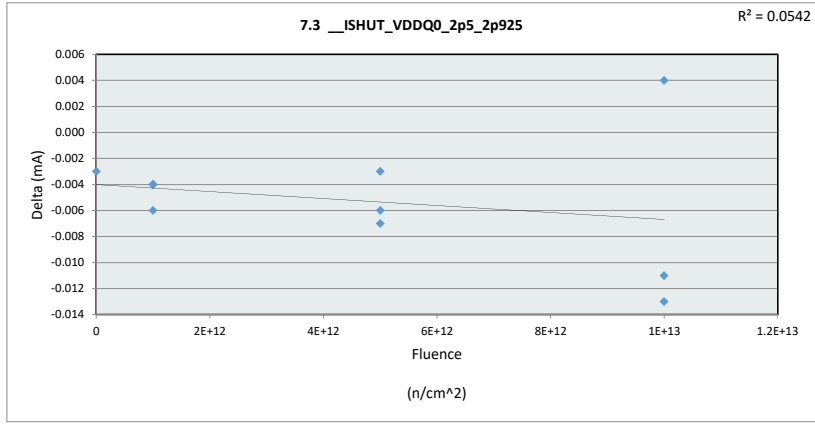
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.656	1.631	1.624	1.632
Average	1.656	1.638	1.635	1.643
Max	1.656	1.652	1.654	1.654
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

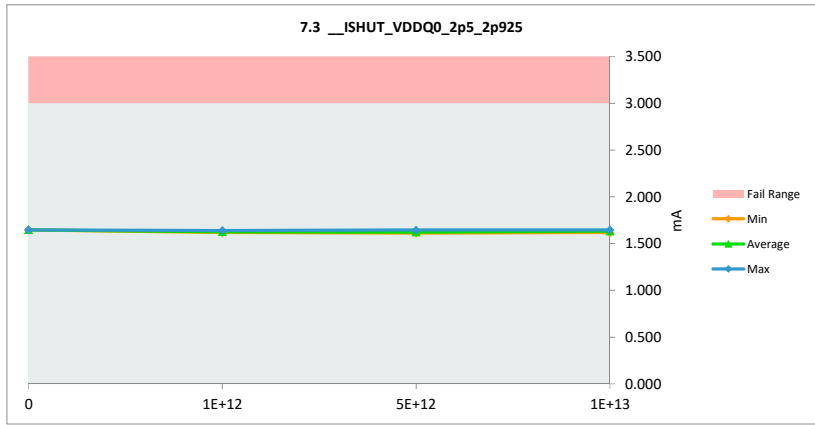
7.3 __ISHUT_VDDQ0_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	3 3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.650	1.647	-0.003
1E+12	2	1.622	1.616	-0.006
1E+12	3	1.643	1.639	-0.004
1E+12	4	1.623	1.619	-0.004
5E+12	5	1.651	1.644	-0.007
5E+12	6	1.617	1.611	-0.006
5E+12	7	1.618	1.615	-0.003
1E+13	8	1.643	1.632	-0.011
1E+13	9	1.630	1.617	-0.013
1E+13	10	1.641	1.645	0.004
Max		1.651	1.647	0.004
Average		1.634	1.628	-0.005
Min		1.617	1.611	-0.013
Std Dev		0.013	0.014	0.005



7.3 __ISHUT_VDDQ0_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	3 mA
Min Limit	mA

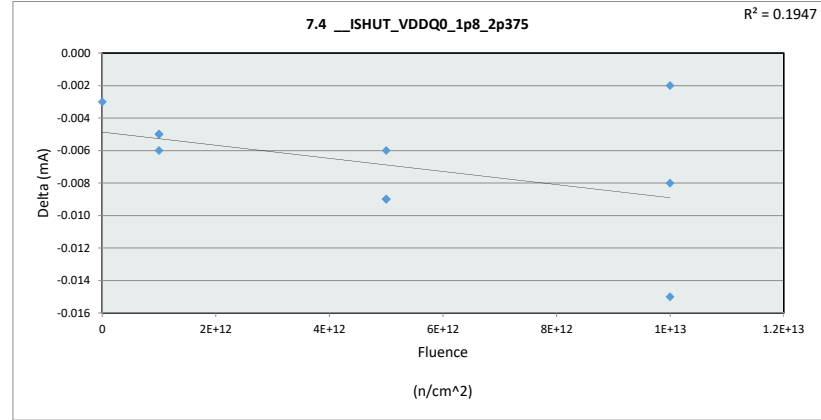
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.647	1.616	1.611	1.617
Average	1.647	1.625	1.623	1.631
Max	1.647	1.639	1.644	1.645
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

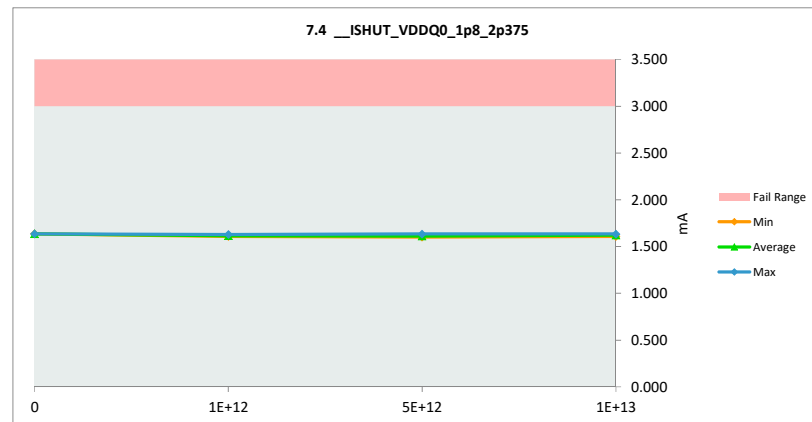
7.4 __ISHUT_VDDQ0_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	3 3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.638	1.635	-0.003
1E+12	2	1.612	1.607	-0.005
1E+12	3	1.634	1.628	-0.006
1E+12	4	1.616	1.611	-0.005
5E+12	5	1.639	1.633	-0.006
5E+12	6	1.610	1.601	-0.009
5E+12	7	1.613	1.604	-0.009
1E+13	8	1.634	1.626	-0.008
1E+13	9	1.622	1.607	-0.015
1E+13	10	1.635	1.633	-0.002
Max		1.639	1.635	-0.002
Average		1.625	1.618	-0.007
Min		1.610	1.601	-0.015
Std Dev		0.012	0.014	0.004



7.4 __ISHUT_VDDQ0_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	3 mA
Min Limit	mA

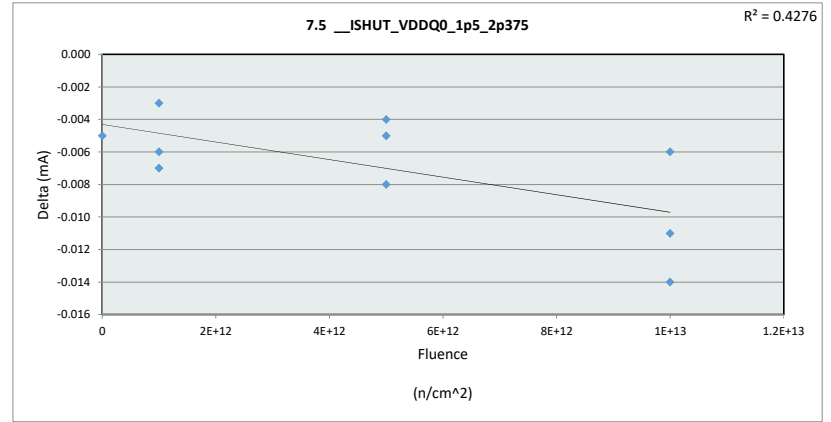
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.635	1.607	1.601	1.607
Average	1.635	1.615	1.613	1.622
Max	1.635	1.628	1.633	1.633
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

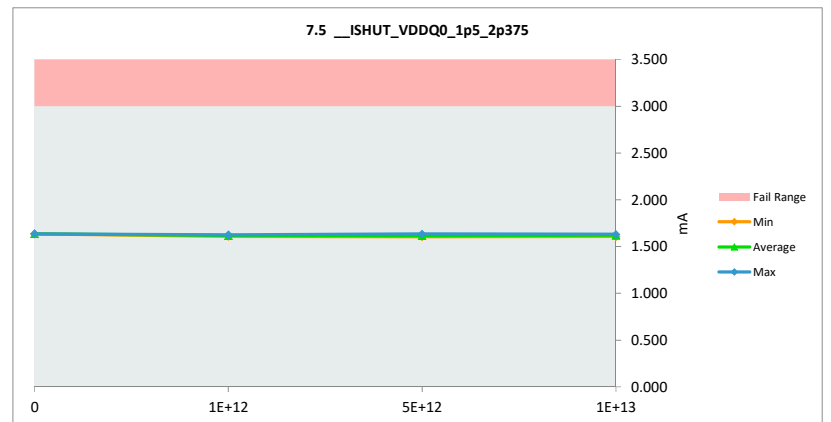
7.5 __ISHUT_VDDQ0_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	3 3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.641	1.636	-0.005
1E+12	2	1.614	1.608	-0.006
1E+12	3	1.634	1.627	-0.007
1E+12	4	1.617	1.614	-0.003
5E+12	5	1.642	1.634	-0.008
5E+12	6	1.609	1.604	-0.005
5E+12	7	1.611	1.607	-0.004
1E+13	8	1.633	1.622	-0.011
1E+13	9	1.620	1.606	-0.014
1E+13	10	1.636	1.630	-0.006
	Max	1.642	1.636	-0.003
	Average	1.626	1.619	-0.007
	Min	1.609	1.604	-0.014
	Std Dev	0.013	0.012	0.003



7.5 __ISHUT_VDDQ0_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	3 mA
Min Limit	mA

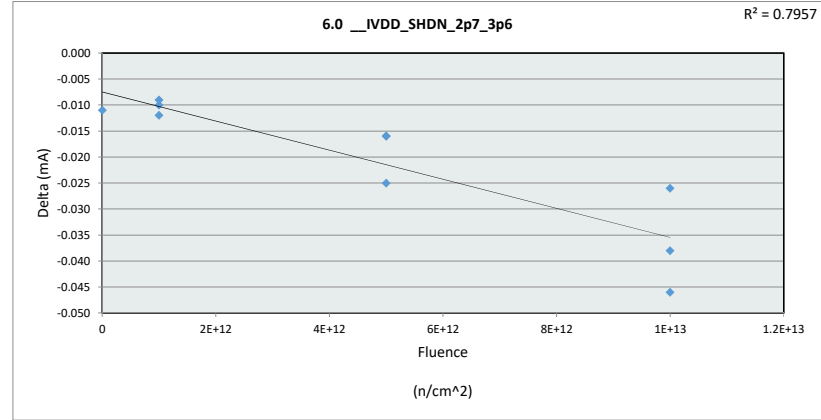
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.636	1.608	1.604	1.606
Average	1.636	1.616	1.615	1.619
Max	1.636	1.627	1.634	1.630
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

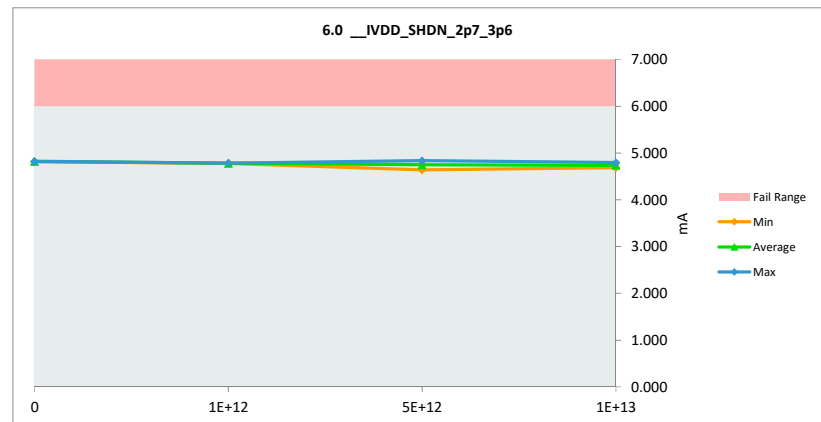
6.0_IVDD_SHDN_2p7_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.831	4.820	-0.011
1E+12	2	4.794	4.782	-0.012
1E+12	3	4.783	4.774	-0.009
1E+12	4	4.786	4.776	-0.010
5E+12	5	4.860	4.835	-0.025
5E+12	6	4.658	4.642	-0.016
5E+12	7	4.773	4.757	-0.016
1E+13	8	4.732	4.686	-0.046
1E+13	9	4.830	4.792	-0.038
1E+13	10	4.759	4.733	-0.026
	Max	4.860	4.835	-0.009
	Average	4.781	4.760	-0.021
	Min	4.658	4.642	-0.046
	Std Dev	0.057	0.059	0.013



6.0_IVDD_SHDN_2p7_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6 mA
Min Limit	mA

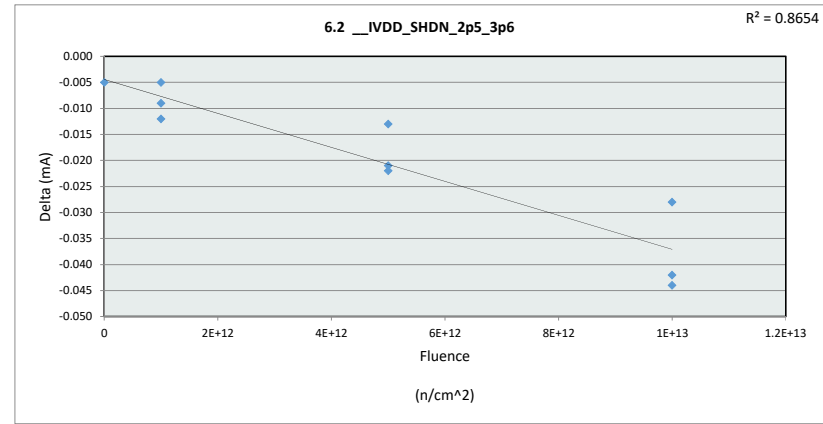
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.820	4.774	4.642	4.686
Average	4.820	4.777	4.745	4.737
Max	4.820	4.782	4.835	4.792
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

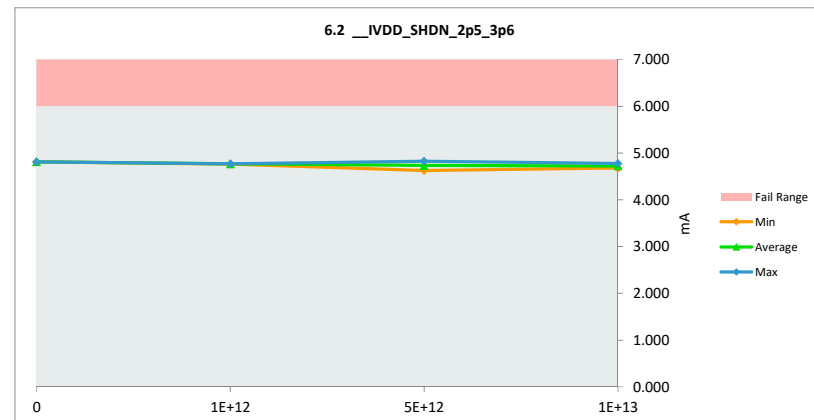
6.2 __IVDD_SHDN_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	6
Min Limit	6

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.814	4.809	-0.005
1E+12	2	4.776	4.771	-0.005
1E+12	3	4.771	4.762	-0.009
1E+12	4	4.774	4.762	-0.012
5E+12	5	4.846	4.824	-0.022
5E+12	6	4.645	4.624	-0.021
5E+12	7	4.757	4.744	-0.013
1E+13	8	4.718	4.676	-0.042
1E+13	9	4.818	4.774	-0.044
1E+13	10	4.748	4.720	-0.028
	Max	4.846	4.824	-0.005
	Average	4.767	4.747	-0.020
	Min	4.645	4.624	-0.044
	Std Dev	0.057	0.060	0.014



6.2 __IVDD_SHDN_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6
Min Limit	6

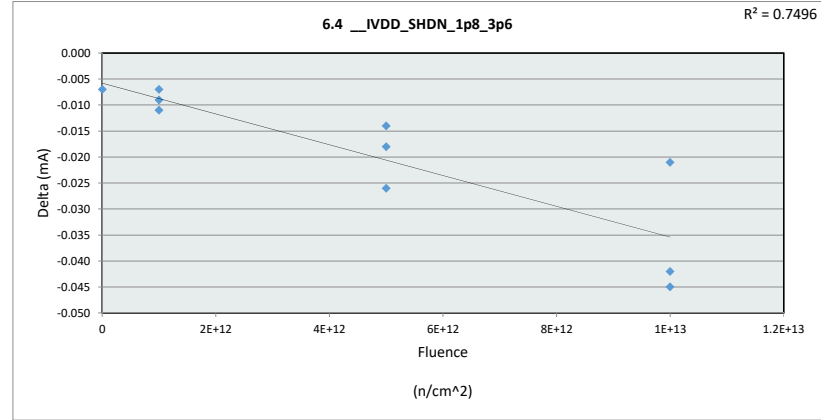
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.809	4.762	4.624	4.676
Average	4.809	4.765	4.731	4.723
Max	4.809	4.771	4.824	4.774
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

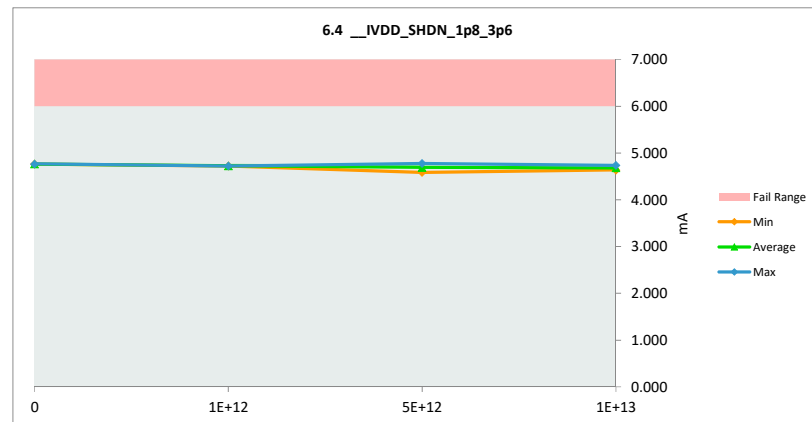
6.4 __IVDD_SHDN_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	6
Min Limit	6

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.772	4.765	-0.007
1E+12	2	4.735	4.724	-0.011
1E+12	3	4.729	4.720	-0.009
1E+12	4	4.731	4.724	-0.007
5E+12	5	4.804	4.778	-0.026
5E+12	6	4.603	4.585	-0.018
5E+12	7	4.717	4.703	-0.014
1E+13	8	4.678	4.636	-0.042
1E+13	9	4.778	4.733	-0.045
1E+13	10	4.701	4.680	-0.021
	Max	4.804	4.778	-0.007
	Average	4.725	4.705	-0.020
	Min	4.603	4.585	-0.045
	Std Dev	0.057	0.058	0.014



6.4 __IVDD_SHDN_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6
Min Limit	6

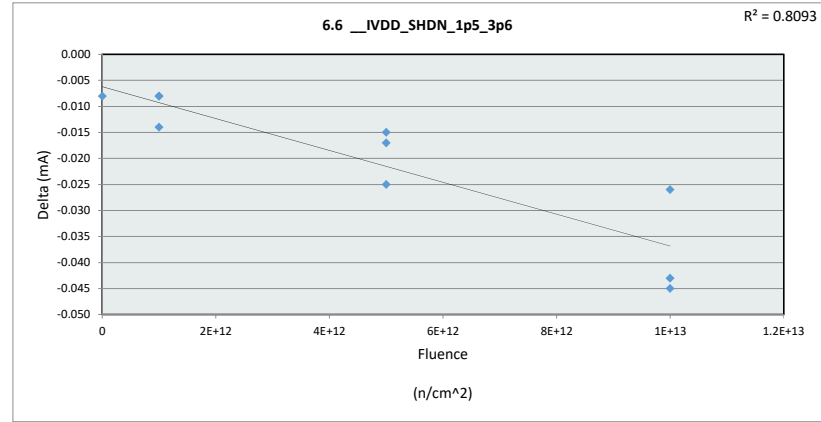
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.765	4.720	4.585	4.636
Average	4.765	4.723	4.689	4.683
Max	4.765	4.724	4.778	4.733
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

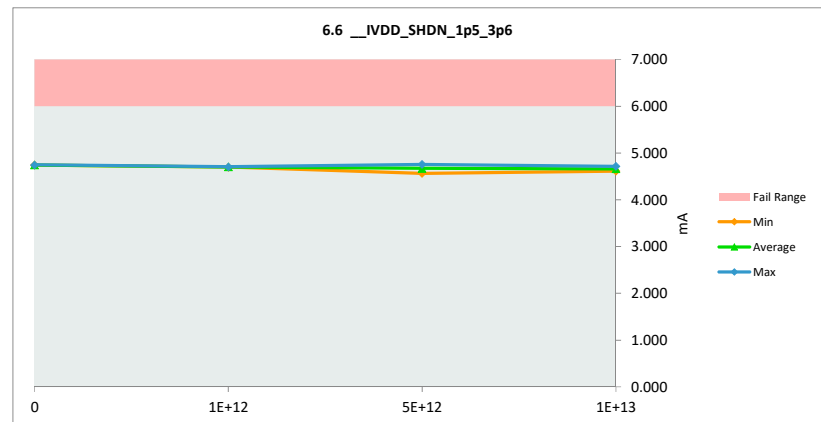
6.6 __IVDD_SHDN_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.752	4.744	-0.008
1E+12	2	4.713	4.705	-0.008
1E+12	3	4.710	4.696	-0.014
1E+12	4	4.711	4.703	-0.008
5E+12	5	4.783	4.758	-0.025
5E+12	6	4.584	4.567	-0.017
5E+12	7	4.695	4.680	-0.015
1E+13	8	4.657	4.612	-0.045
1E+13	9	4.755	4.712	-0.043
1E+13	10	4.684	4.658	-0.026
	Max	4.783	4.758	-0.008
	Average	4.704	4.683	-0.021
	Min	4.584	4.567	-0.045
	Std Dev	0.056	0.058	0.014



6.6 __IVDD_SHDN_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6 mA
Min Limit	mA

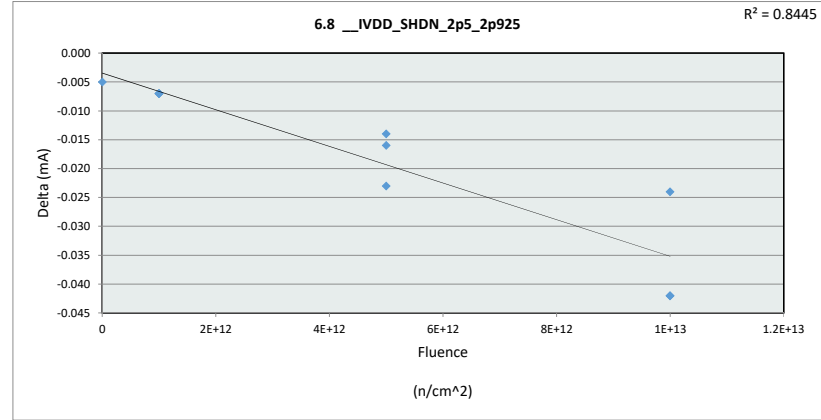
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.744	4.696	4.567	4.612
Average	4.744	4.701	4.668	4.661
Max	4.744	4.705	4.758	4.712
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

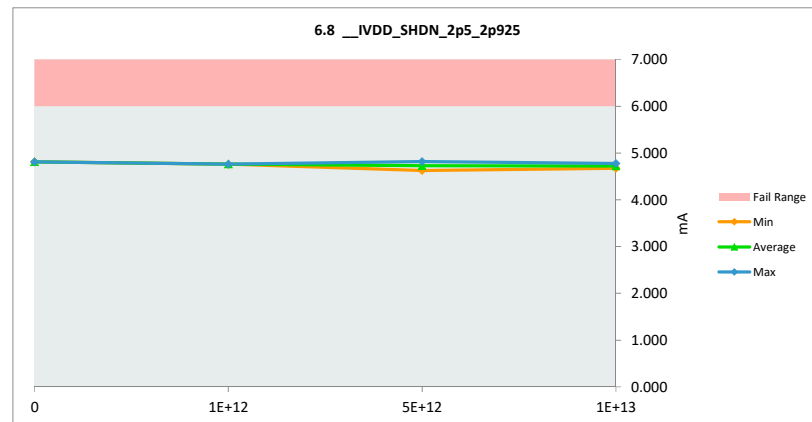
6.8 __IVDD_SHDN_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.813	4.808	-0.005
1E+12	2	4.773	4.766	-0.007
1E+12	3	4.766	4.759	-0.007
1E+12	4	4.766	4.759	-0.007
5E+12	5	4.843	4.820	-0.023
5E+12	6	4.639	4.625	-0.014
5E+12	7	4.756	4.740	-0.016
1E+13	8	4.713	4.671	-0.042
1E+13	9	4.817	4.775	-0.042
1E+13	10	4.742	4.718	-0.024
	Max	4.843	4.820	-0.005
	Average	4.763	4.744	-0.019
	Min	4.639	4.625	-0.042
	Std Dev	0.058	0.060	0.014



6.8 __IVDD_SHDN_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	6 mA
Min Limit	mA

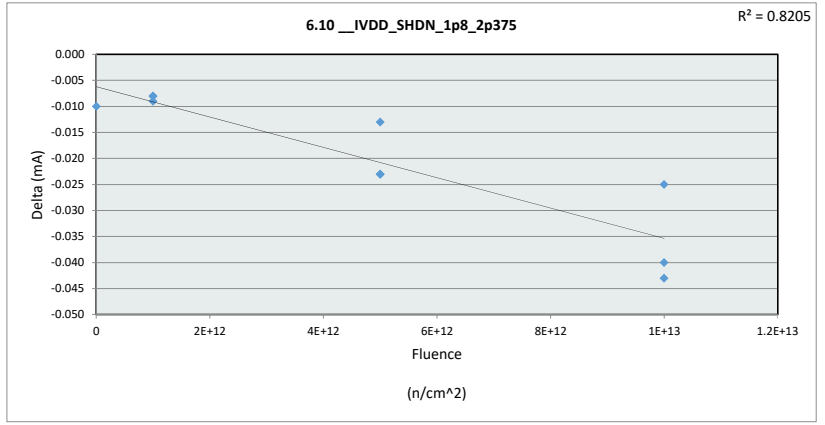
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.808	4.759	4.625	4.671
Average	4.808	4.761	4.728	4.721
Max	4.808	4.766	4.820	4.775
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

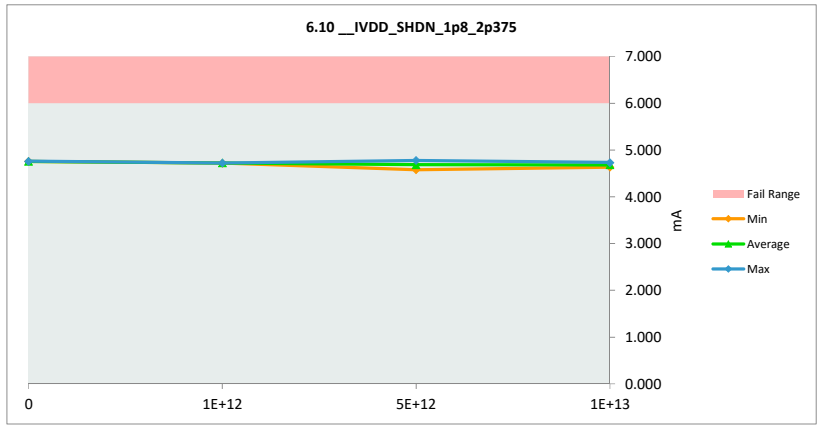
6.10_IVDD_SHDN_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	6
Min Limit	6

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.769	4.759	-0.010
1E+12	2	4.730	4.722	-0.008
1E+12	3	4.727	4.718	-0.009
1E+12	4	4.727	4.719	-0.008
5E+12	5	4.799	4.776	-0.023
5E+12	6	4.602	4.579	-0.023
5E+12	7	4.710	4.697	-0.013
1E+13	8	4.673	4.630	-0.043
1E+13	9	4.769	4.729	-0.040
1E+13	10	4.699	4.674	-0.025
	Max	4.799	4.776	-0.008
	Average	4.721	4.700	-0.020
	Min	4.602	4.579	-0.043
	Std Dev	0.056	0.059	0.013



6.10_IVDD_SHDN_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	6
Min Limit	6

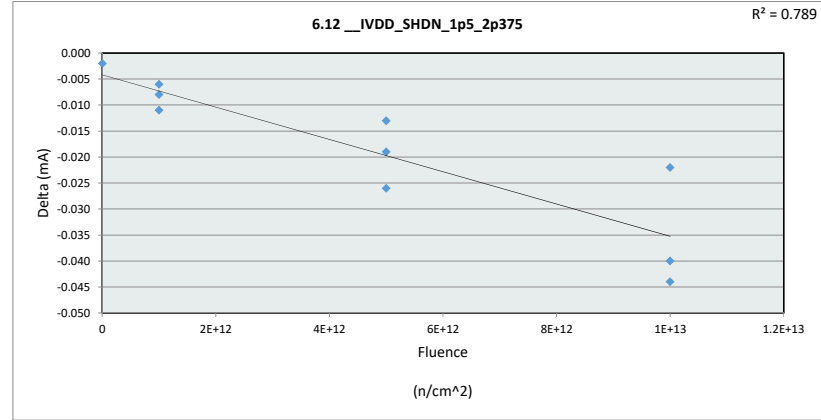
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.759	4.718	4.579	4.630
Average	4.759	4.720	4.684	4.678
Max	4.759	4.722	4.776	4.729
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

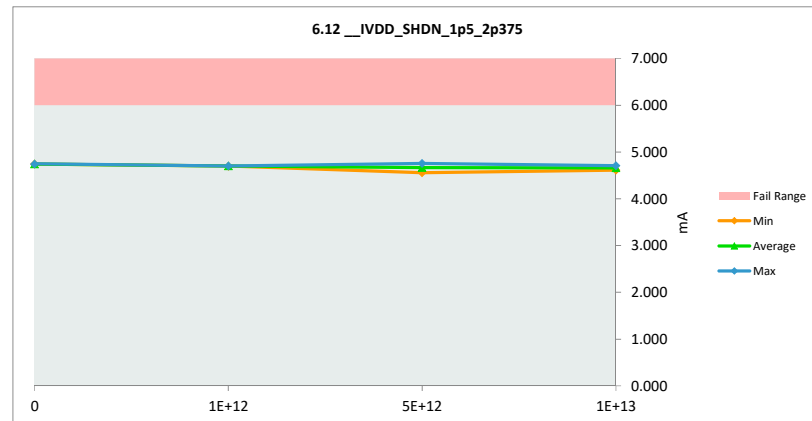
6.12_IVDD_SHDN_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	6
Min Limit	6

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.745	4.743	-0.002
1E+12	2	4.714	4.703	-0.011
1E+12	3	4.702	4.696	-0.006
1E+12	4	4.711	4.703	-0.008
5E+12	5	4.779	4.753	-0.026
5E+12	6	4.580	4.561	-0.019
5E+12	7	4.691	4.678	-0.013
1E+13	8	4.652	4.612	-0.040
1E+13	9	4.752	4.708	-0.044
1E+13	10	4.678	4.656	-0.022
	Max	4.779	4.753	-0.002
	Average	4.700	4.681	-0.019
	Min	4.580	4.561	-0.044
	Std Dev	0.056	0.058	0.014



6.12_IVDD_SHDN_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	6 mA
Min Limit	6 mA

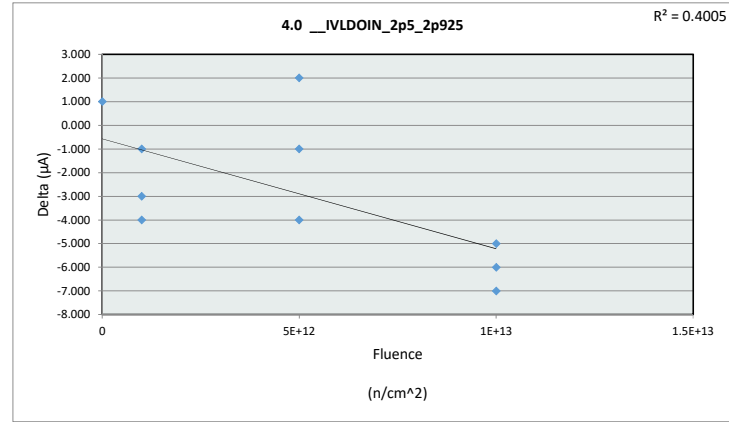
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.743	4.696	4.561	4.612
Average	4.743	4.701	4.664	4.659
Max	4.743	4.703	4.753	4.708
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

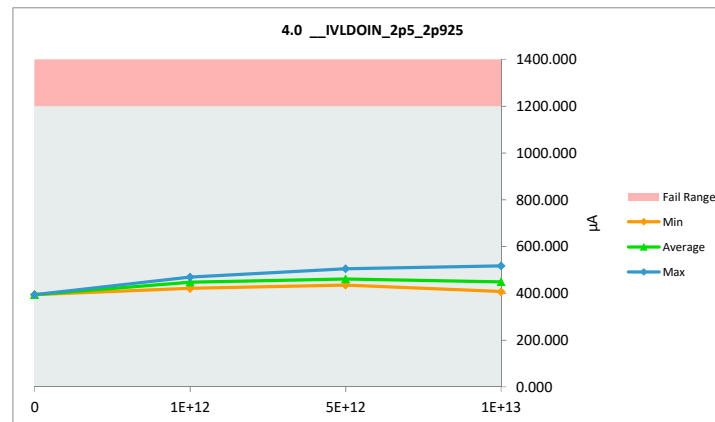
4.0 __IVLDOIN_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1200
Min Limit	1200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	394.000	395.000	1.000
1E+12	2	470.000	469.000	-1.000
1E+12	3	424.000	421.000	-3.000
1E+12	4	456.000	452.000	-4.000
5E+12	5	437.000	436.000	-1.000
5E+12	6	509.000	505.000	-4.000
5E+12	7	441.000	443.000	2.000
1E+13	8	412.000	407.000	-5.000
1E+13	9	525.000	518.000	-7.000
1E+13	10	428.000	422.000	-6.000
	Max	525.000	518.000	2.000
	Average	449.600	446.800	-2.800
	Min	394.000	395.000	-7.000
	Std Dev	41.540	40.353	2.974



4.0 __IVLDOIN_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1200 μA
Min Limit	μA

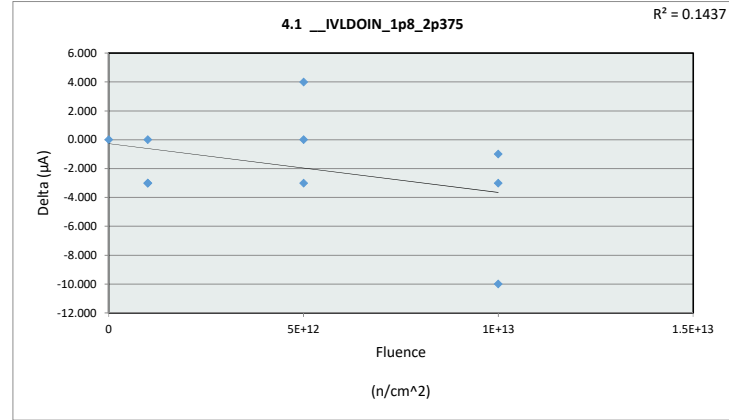
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	395.000	421.000	436.000	407.000
Average	395.000	447.333	461.333	449.000
Max	395.000	469.000	505.000	518.000
UL	1200.000	1200.000	1200.000	1200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

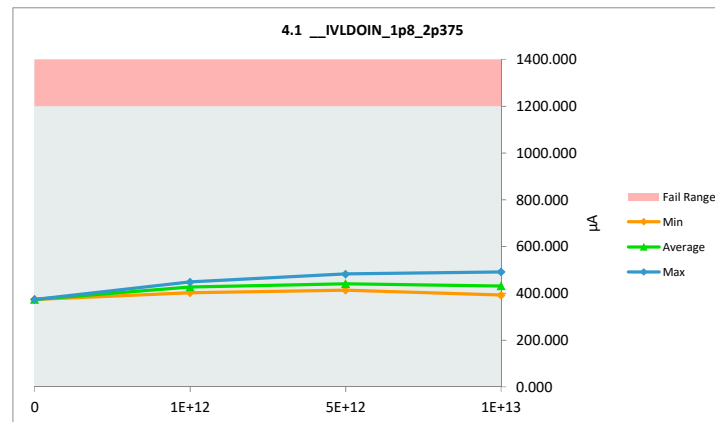
4.1 __IVLDOIN_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1200
Min Limit	1200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	374.000	374.000	0.000
1E+12	2	448.000	448.000	0.000
1E+12	3	405.000	402.000	-3.000
1E+12	4	433.000	430.000	-3.000
5E+12	5	416.000	413.000	-3.000
5E+12	6	482.000	482.000	0.000
5E+12	7	422.000	426.000	4.000
1E+13	8	395.000	392.000	-3.000
1E+13	9	501.000	491.000	-10.000
1E+13	10	410.000	409.000	-1.000
Max		501.000	491.000	4.000
Average		428.600	426.700	-1.900
Min		374.000	374.000	-10.000
Std Dev		39.022	37.639	3.604



4.1 __IVLDOIN_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1200 μA
Min Limit	μA

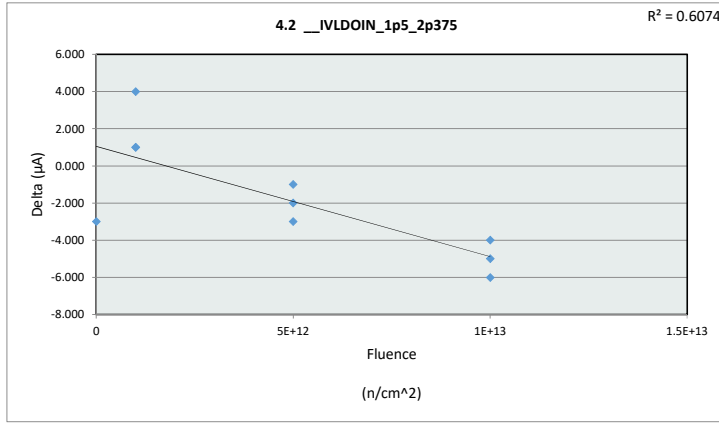
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	374.000	402.000	413.000	392.000
Average	374.000	426.667	440.333	430.667
Max	374.000	448.000	482.000	491.000
UL	1200.000	1200.000	1200.000	1200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

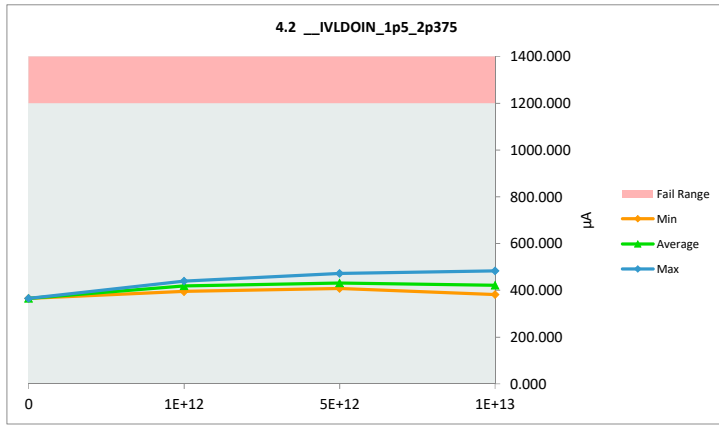
4.2 __IVLDOIN_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1200
Min Limit	1200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	368.000	365.000	-3.000
1E+12	2	435.000	439.000	4.000
1E+12	3	394.000	395.000	1.000
1E+12	4	421.000	422.000	1.000
5E+12	5	410.000	408.000	-2.000
5E+12	6	475.000	472.000	-3.000
5E+12	7	416.000	415.000	-1.000
1E+13	8	387.000	382.000	-5.000
1E+13	9	489.000	483.000	-6.000
1E+13	10	403.000	399.000	-4.000
	Max	489.000	483.000	4.000
	Average	419.800	418.000	-1.800
	Min	368.000	365.000	-6.000
	Std Dev	37.838	37.568	3.084



4.2 __IVLDOIN_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1200 μA
Min Limit	μA

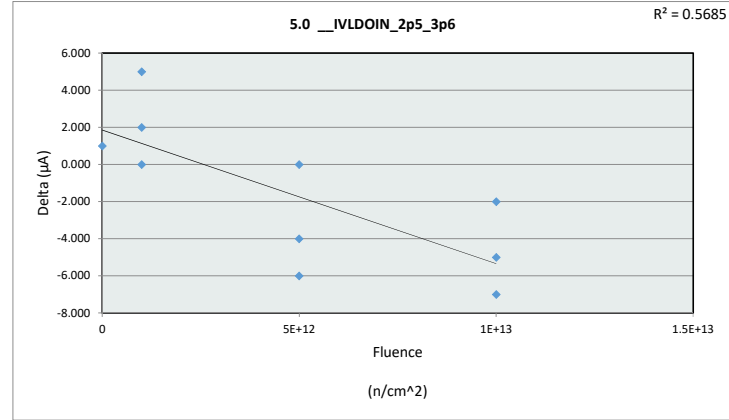
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	365.000	395.000	408.000	382.000
Average	365.000	418.667	431.667	421.333
Max	365.000	439.000	472.000	483.000
UL	1200.000	1200.000	1200.000	1200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

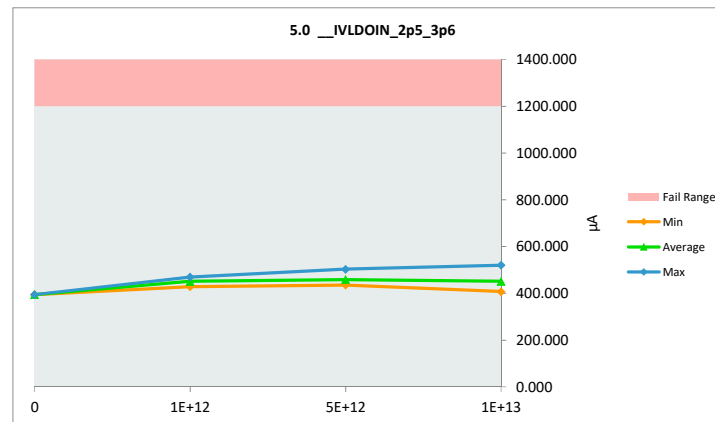
5.0 __IVLDOIN_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1200
Min Limit	1200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	394.000	395.000	1.000
1E+12	2	467.000	469.000	2.000
1E+12	3	423.000	428.000	5.000
1E+12	4	456.000	456.000	0.000
5E+12	5	441.000	435.000	-6.000
5E+12	6	503.000	503.000	0.000
5E+12	7	442.000	438.000	-4.000
1E+13	8	412.000	407.000	-5.000
1E+13	9	527.000	520.000	-7.000
1E+13	10	428.000	426.000	-2.000
	Max	527.000	520.000	5.000
	Average	449.300	447.700	-1.600
	Min	394.000	395.000	-7.000
	Std Dev	40.820	39.939	3.864



5.0 __IVLDOIN_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1200 μA
Min Limit	μA

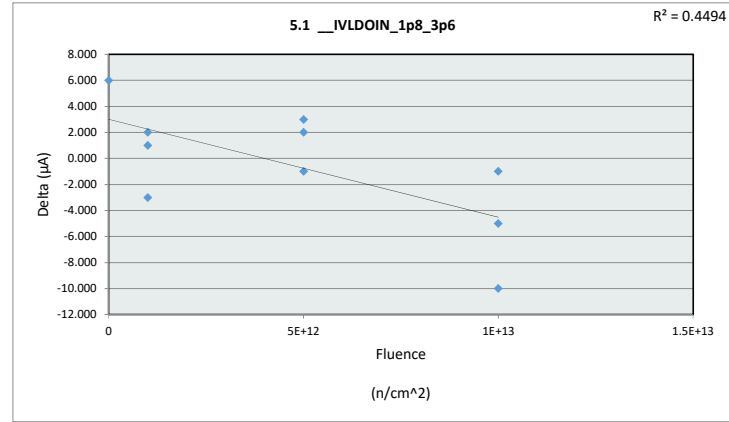
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	395.000	428.000	435.000	407.000
Average	395.000	451.000	458.667	451.000
Max	395.000	469.000	503.000	520.000
UL	1200.000	1200.000	1200.000	1200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

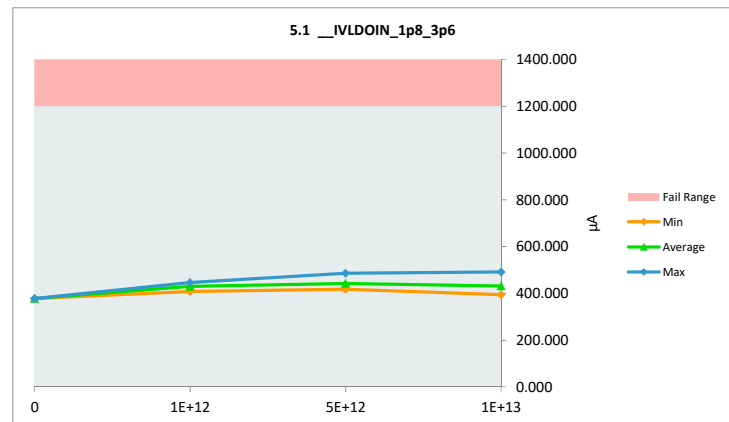
5.1_IVLDOIN_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1200
Min Limit	1200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	372.000	378.000	6.000
1E+12	2	449.000	446.000	-3.000
1E+12	3	407.000	408.000	1.000
1E+12	4	433.000	435.000	2.000
5E+12	5	416.000	418.000	2.000
5E+12	6	483.000	486.000	3.000
5E+12	7	422.000	421.000	-1.000
1E+13	8	395.000	394.000	-1.000
1E+13	9	501.000	491.000	-10.000
1E+13	10	412.000	407.000	-5.000
	Max	501.000	491.000	6.000
	Average	429.000	428.400	-0.600
	Min	372.000	378.000	-10.000
	Std Dev	39.316	37.044	4.551



5.1_IVLDOIN_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1200 μA
Min Limit	μA

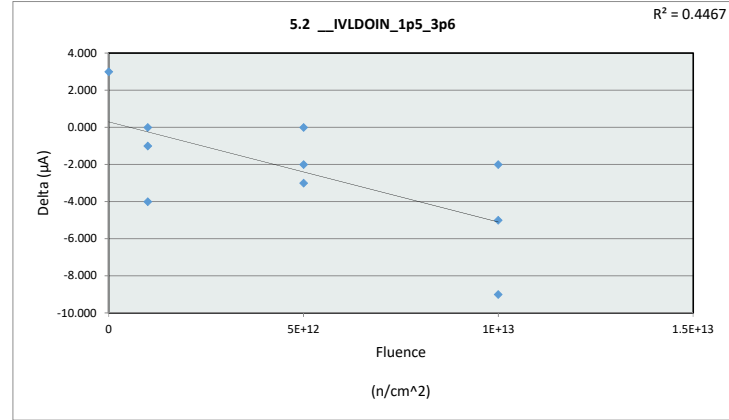
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	378.000	408.000	418.000	394.000
Average	378.000	429.667	441.667	430.667
Max	378.000	446.000	486.000	491.000
UL	1200.000	1200.000	1200.000	1200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

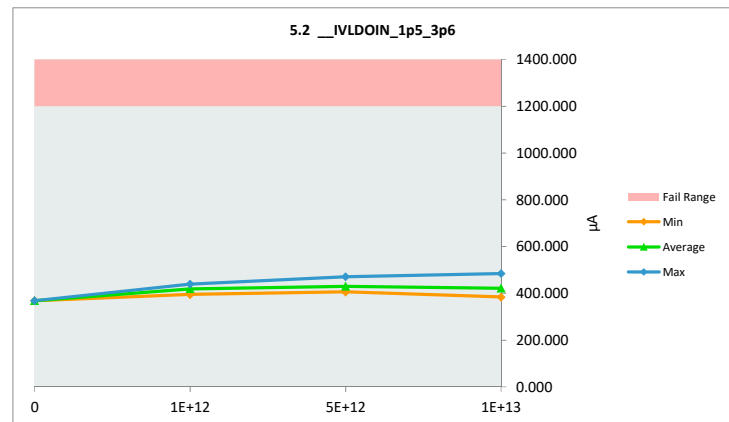
5.2 __IVLDOIN_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1200
Min Limit	1200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	366.000	369.000	3.000
1E+12	2	440.000	439.000	-1.000
1E+12	3	399.000	395.000	-4.000
1E+12	4	422.000	422.000	0.000
5E+12	5	406.000	406.000	0.000
5E+12	6	473.000	471.000	-2.000
5E+12	7	415.000	412.000	-3.000
1E+13	8	386.000	384.000	-2.000
1E+13	9	490.000	485.000	-5.000
1E+13	10	404.000	395.000	-9.000
	Max	490.000	485.000	3.000
	Average	420.100	417.800	-2.300
	Min	366.000	369.000	-9.000
	Std Dev	38.156	37.342	3.268



5.2 __IVLDOIN_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1200 μA
Min Limit	μA

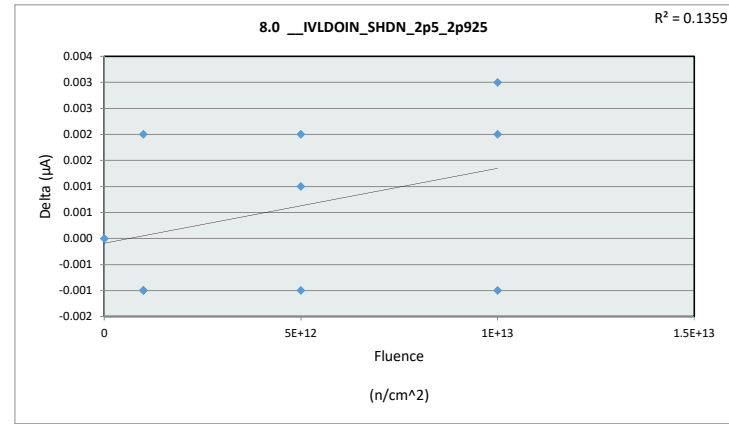
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	369.000	395.000	406.000	384.000
Average	369.000	418.667	429.667	421.333
Max	369.000	439.000	471.000	485.000
UL	1200.000	1200.000	1200.000	1200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

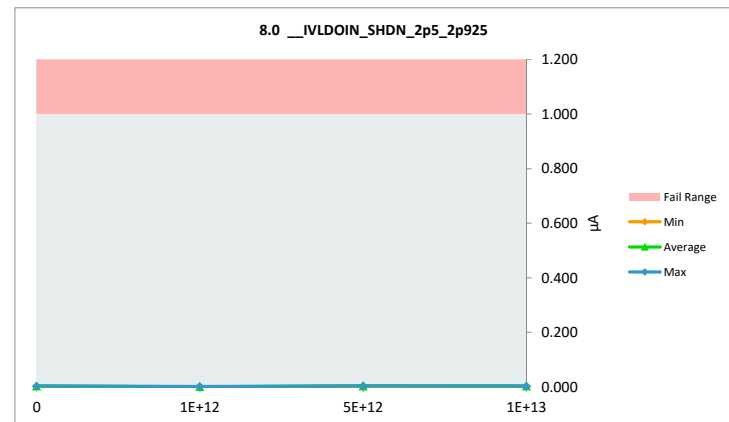
8.0 __IVLDOIN_SHDN_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	1 1
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.003	0.003	0.000
1E+12	2	0.001	0.000	-0.001
1E+12	3	0.001	0.000	-0.001
1E+12	4	0.000	0.002	0.002
5E+12	5	0.003	0.002	-0.001
5E+12	6	0.001	0.002	0.001
5E+12	7	0.002	0.004	0.002
1E+13	8	0.000	0.002	0.002
1E+13	9	0.000	0.003	0.003
1E+13	10	0.003	0.002	-0.001
	Max	0.003	0.004	0.003
	Average	0.001	0.002	0.001
	Min	0.000	0.000	-0.001
	Std Dev	0.001	0.001	0.002



8.0 __IVLDOIN_SHDN_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	μA

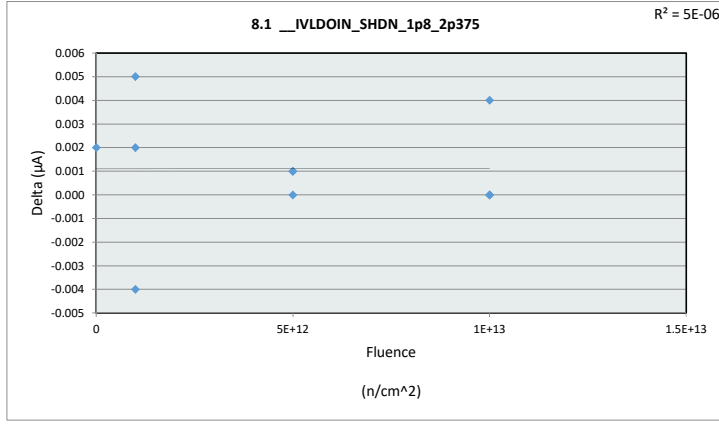
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.003	0.000	0.002	0.002
Average	0.003	0.001	0.003	0.002
Max	0.003	0.002	0.004	0.003
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

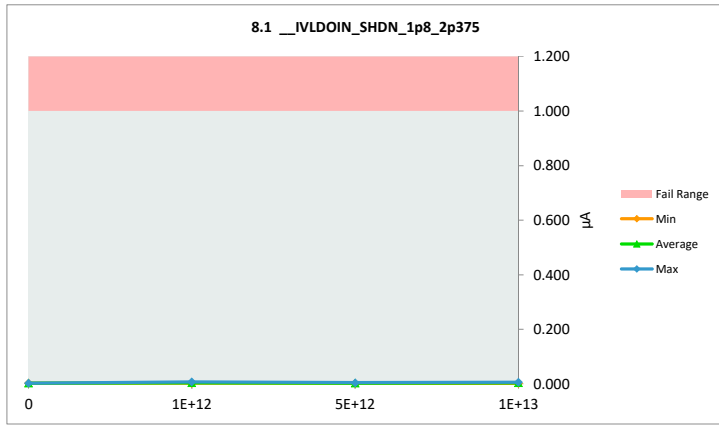
8.1 __IVLDOIN_SHDN_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	1 1
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.001	0.003	0.002
1E+12	2	0.002	0.004	0.002
1E+12	3	0.006	0.002	-0.004
1E+12	4	0.002	0.007	0.005
5E+12	5	0.002	0.003	0.001
5E+12	6	0.004	0.004	0.000
5E+12	7	0.001	0.002	0.001
1E+13	8	0.001	0.001	0.000
1E+13	9	0.004	0.004	0.000
1E+13	10	0.002	0.006	0.004
Max		0.006	0.007	0.005
Average		0.003	0.004	0.001
Min		0.001	0.001	-0.004
Std Dev		0.002	0.002	0.002



8.1 __IVLDOIN_SHDN_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	μA

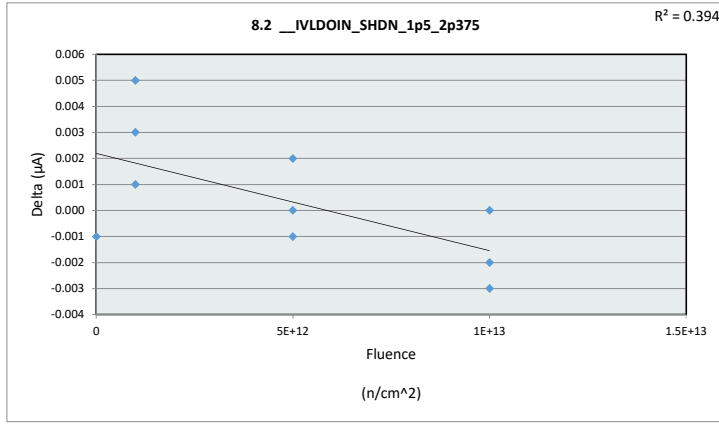
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.003	0.002	0.002	0.001
Average	0.003	0.004	0.003	0.004
Max	0.003	0.007	0.004	0.006
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

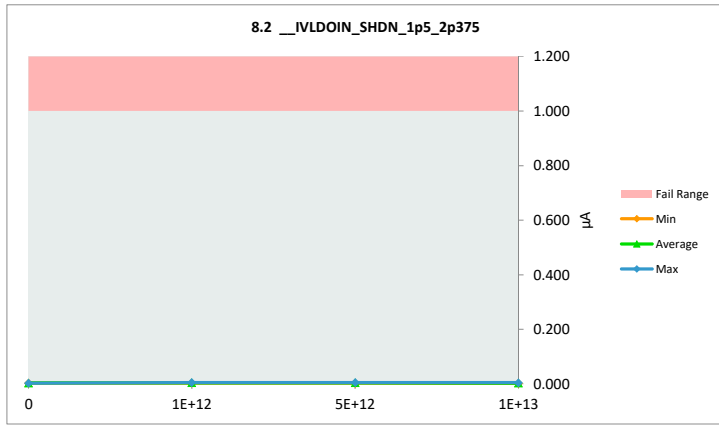
8.2 __IVLDOIN_SHDN_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	1 1
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.004	0.003	-0.001
1E+12	2	0.003	0.004	0.001
1E+12	3	0.000	0.003	0.003
1E+12	4	0.000	0.005	0.005
5E+12	5	0.005	0.005	0.000
5E+12	6	0.005	0.004	-0.001
5E+12	7	0.000	0.002	0.002
1E+13	8	0.004	0.004	0.000
1E+13	9	0.004	0.001	-0.003
1E+13	10	0.004	0.002	-0.002
	Max	0.005	0.005	0.005
	Average	0.003	0.003	0.000
	Min	0.000	0.001	-0.003
	Std Dev	0.002	0.001	0.002



8.2 __IVLDOIN_SHDN_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	μA

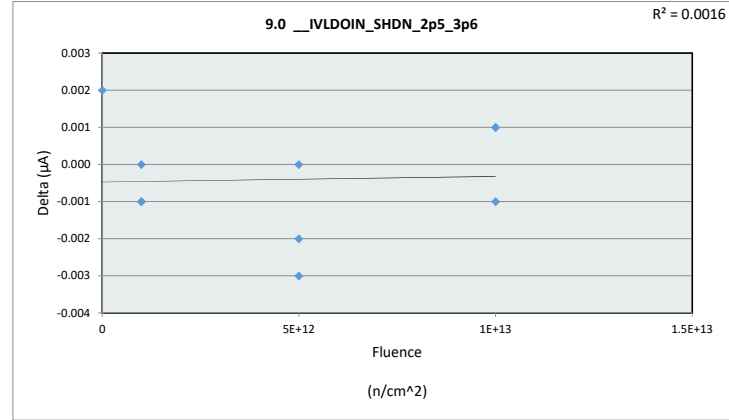
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.003	0.003	0.002	0.001
Average	0.003	0.004	0.004	0.002
Max	0.003	0.005	0.005	0.004
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

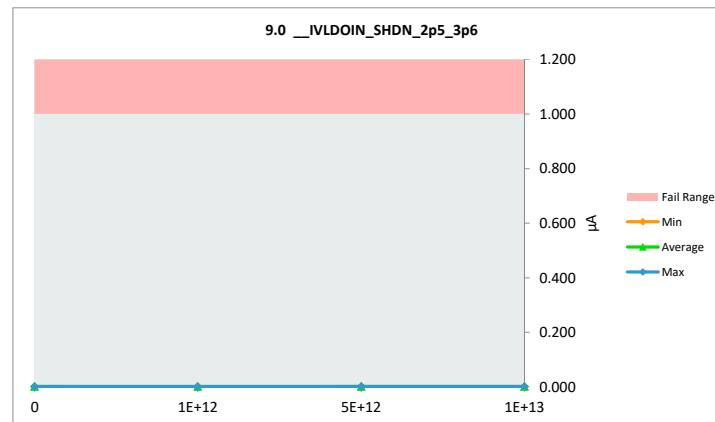
9.0 __IVLDOIN_SHDN_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	1 1
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.000	0.002	0.002
1E+12	2	0.001	0.000	-0.001
1E+12	3	0.003	0.002	-0.001
1E+12	4	0.001	0.001	0.000
5E+12	5	0.004	0.001	-0.003
5E+12	6	0.003	0.001	-0.002
5E+12	7	0.002	0.002	0.000
1E+13	8	0.000	0.001	0.001
1E+13	9	0.001	0.000	-0.001
1E+13	10	0.001	0.002	0.001
	Max	0.004	0.002	0.002
	Average	0.002	0.001	0.000
	Min	0.000	0.000	-0.003
	Std Dev	0.001	0.001	0.002



9.0 __IVLDOIN_SHDN_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	μA

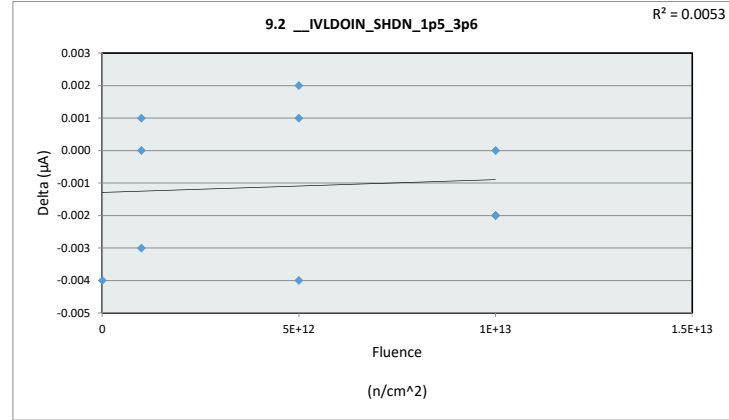
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.002	0.000	0.001	0.001
Average	0.002	0.001	0.001	0.001
Max	0.002	0.002	0.002	0.002
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

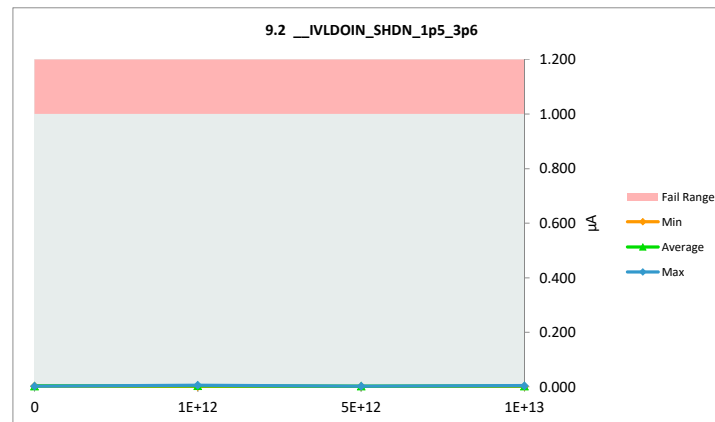
9.2 __IVLDOIN_SHDN_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	1 1
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.007	0.003	-0.004
1E+12	2	0.004	0.001	-0.003
1E+12	3	0.004	0.004	0.000
1E+12	4	0.005	0.006	0.001
5E+12	5	0.002	0.003	0.001
5E+12	6	0.001	0.003	0.002
5E+12	7	0.005	0.001	-0.004
1E+13	8	0.003	0.001	-0.002
1E+13	9	0.005	0.003	-0.002
1E+13	10	0.004	0.004	0.000
	Max	0.007	0.006	0.002
	Average	0.004	0.003	-0.001
	Min	0.001	0.001	-0.004
	Std Dev	0.002	0.002	0.002



9.2 __IVLDOIN_SHDN_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	μA

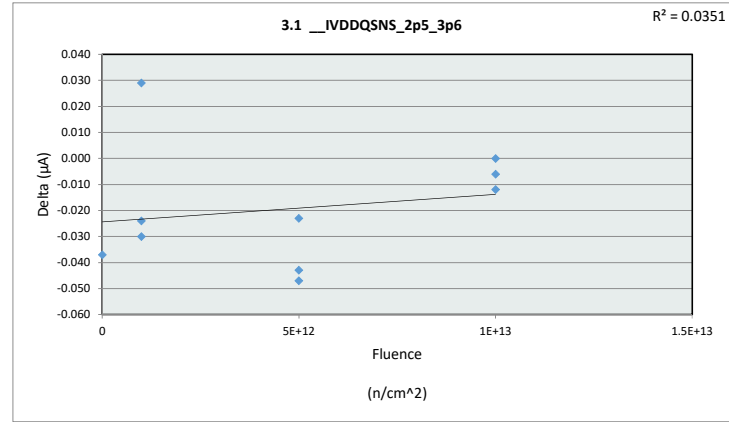
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.003	0.001	0.001	0.001
Average	0.003	0.004	0.002	0.003
Max	0.003	0.006	0.003	0.004
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

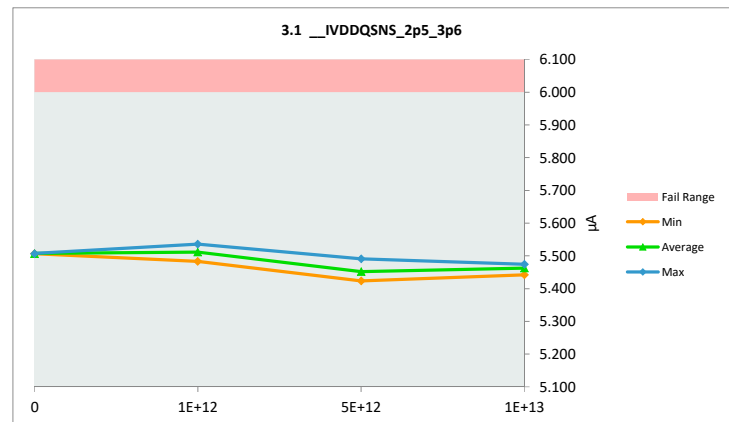
3.1 __IVDDQSN5_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	5.544	5.507	-0.037
1E+12	2	5.507	5.483	-0.024
1E+12	3	5.566	5.536	-0.030
1E+12	4	5.487	5.516	0.029
5E+12	5	5.514	5.491	-0.023
5E+12	6	5.467	5.424	-0.043
5E+12	7	5.487	5.440	-0.047
1E+13	8	5.475	5.475	0.000
1E+13	9	5.454	5.442	-0.012
1E+13	10	5.477	5.471	-0.006
	Max	5.566	5.536	0.029
	Average	5.498	5.478	-0.019
	Min	5.454	5.424	-0.047
	Std Dev	0.035	0.036	0.023



3.1 __IVDDQSN5_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6 μA
Min Limit	μA

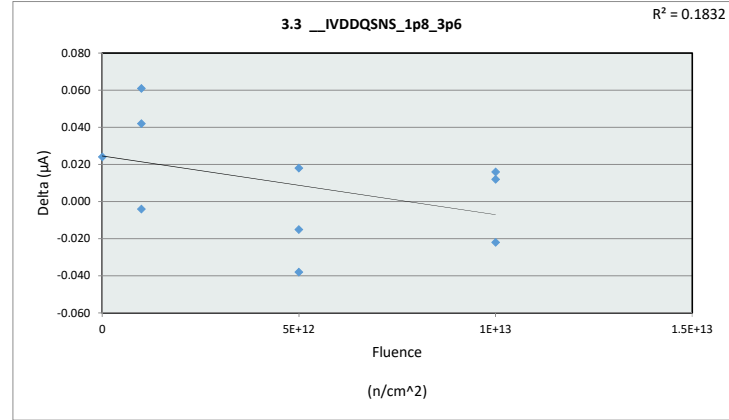
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	5.507	5.483	5.424	5.442
Average	5.507	5.512	5.452	5.463
Max	5.507	5.536	5.491	5.475
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

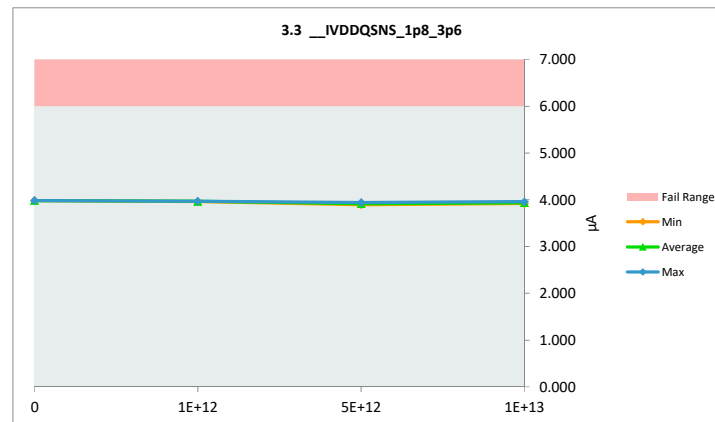
3.3 __IVDDQSNS_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.960	3.984	0.024
1E+12	2	3.915	3.957	0.042
1E+12	3	3.968	3.964	-0.004
1E+12	4	3.907	3.968	0.061
5E+12	5	3.921	3.939	0.018
5E+12	6	3.909	3.894	-0.015
5E+12	7	3.951	3.913	-0.038
1E+13	8	3.941	3.957	0.016
1E+13	9	3.903	3.915	0.012
1E+13	10	3.951	3.929	-0.022
	Max	3.968	3.984	0.061
	Average	3.933	3.942	0.009
	Min	3.903	3.894	-0.038
	Std Dev	0.024	0.029	0.030



3.3 __IVDDQSNS_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6 μA
Min Limit	μA

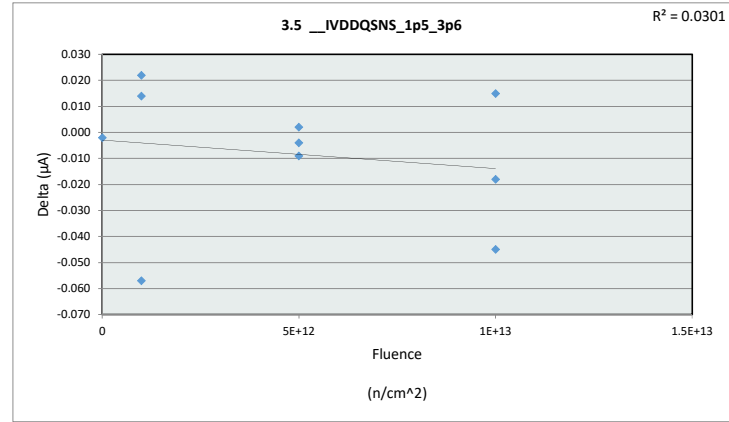
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	3.984	3.957	3.894	3.915
Average	3.984	3.963	3.915	3.934
Max	3.984	3.968	3.939	3.957
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

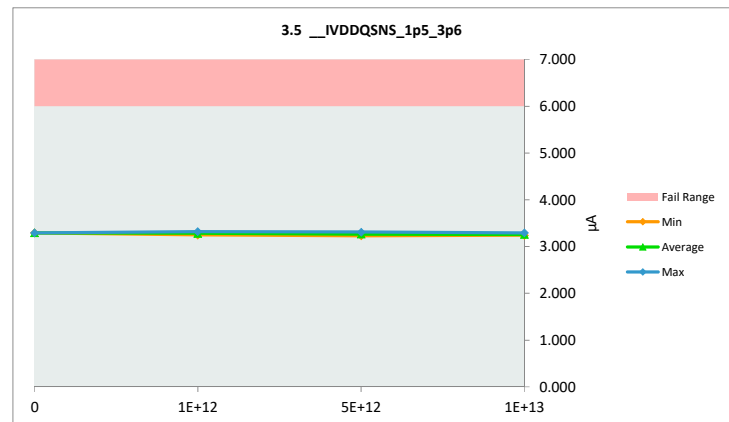
3.5 __IVDDQSNS_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	6
Min Limit	6

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.296	3.294	-0.002
1E+12	2	3.251	3.273	0.022
1E+12	3	3.306	3.320	0.014
1E+12	4	3.304	3.247	-0.057
5E+12	5	3.312	3.308	-0.004
5E+12	6	3.241	3.232	-0.009
5E+12	7	3.243	3.245	0.002
1E+13	8	3.279	3.294	0.015
1E+13	9	3.257	3.239	-0.018
1E+13	10	3.294	3.249	-0.045
	Max	3.312	3.320	0.022
	Average	3.278	3.270	-0.008
	Min	3.241	3.232	-0.057
	Std Dev	0.028	0.032	0.026



3.5 __IVDDQSNS_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	6 μA
Min Limit	6 μA

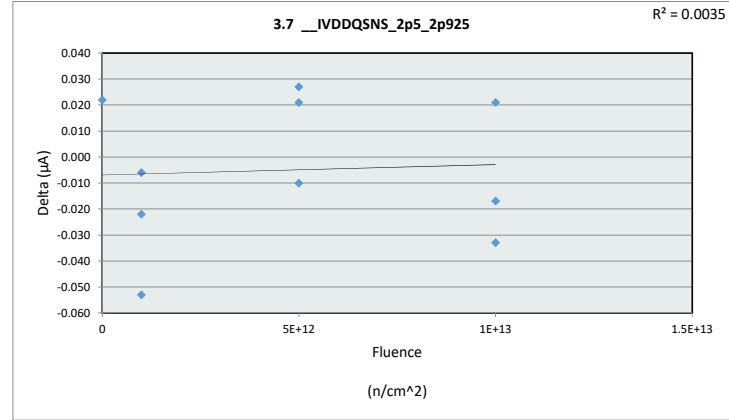
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	3.294	3.247	3.232	3.239
Average	3.294	3.280	3.262	3.261
Max	3.294	3.320	3.308	3.294
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

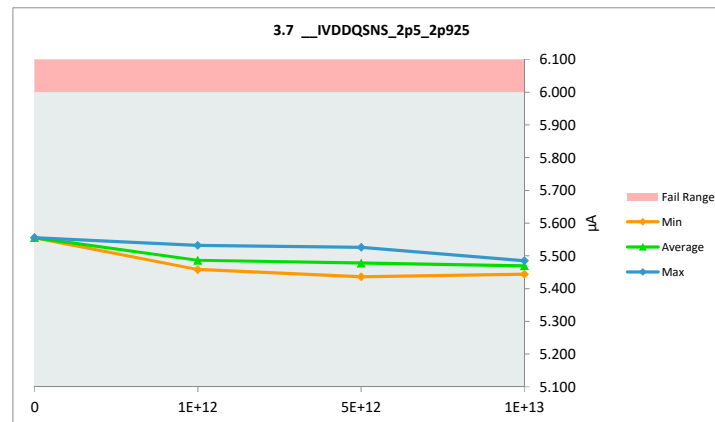
3.7 __IVDDQSNS_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	5.534	5.556	0.022
1E+12	2	5.511	5.458	-0.053
1E+12	3	5.554	5.532	-0.022
1E+12	4	5.475	5.469	-0.006
5E+12	5	5.499	5.526	0.027
5E+12	6	5.446	5.436	-0.010
5E+12	7	5.450	5.471	0.021
1E+13	8	5.458	5.479	0.021
1E+13	9	5.461	5.444	-0.017
1E+13	10	5.518	5.485	-0.033
	Max	5.554	5.556	0.027
	Average	5.491	5.486	-0.005
	Min	5.446	5.436	-0.053
	Std Dev	0.038	0.040	0.027



3.7 __IVDDQSNS_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	6 μA
Min Limit	μA

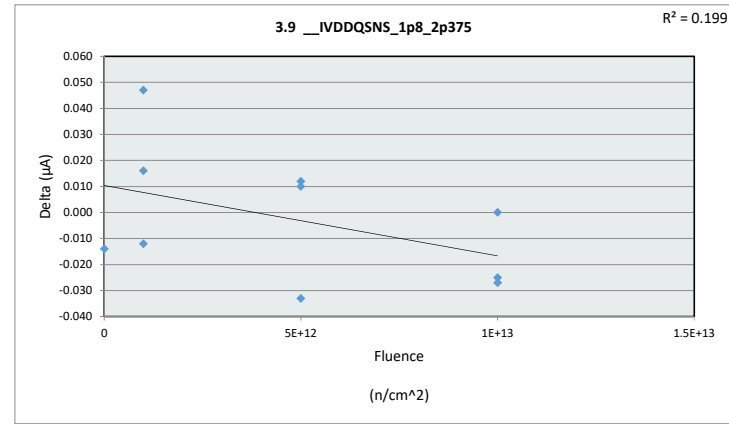
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	5.556	5.458	5.436	5.444
Average	5.556	5.486	5.478	5.469
Max	5.556	5.532	5.526	5.485
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

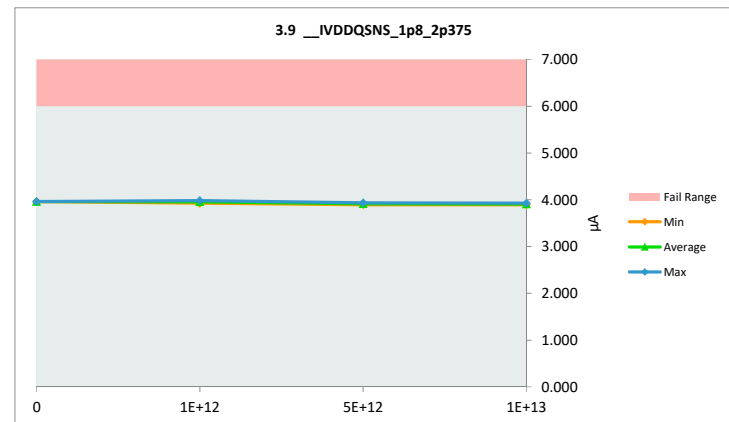
3.9_IVDDQSNs_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	μA μA
Max Limit	6 6
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.976	3.962	-0.014
1E+12	2	3.909	3.925	0.016
1E+12	3	3.992	3.980	-0.012
1E+12	4	3.915	3.962	0.047
5E+12	5	3.968	3.935	-0.033
5E+12	6	3.882	3.894	0.012
5E+12	7	3.905	3.915	0.010
1E+13	8	3.919	3.892	-0.027
1E+13	9	3.925	3.900	-0.025
1E+13	10	3.929	3.929	0.000
	Max	3.992	3.980	0.047
	Average	3.932	3.929	-0.003
	Min	3.882	3.892	-0.033
	Std Dev	0.035	0.031	0.025



3.9_IVDDQSNs_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	6 μA
Min Limit	μA

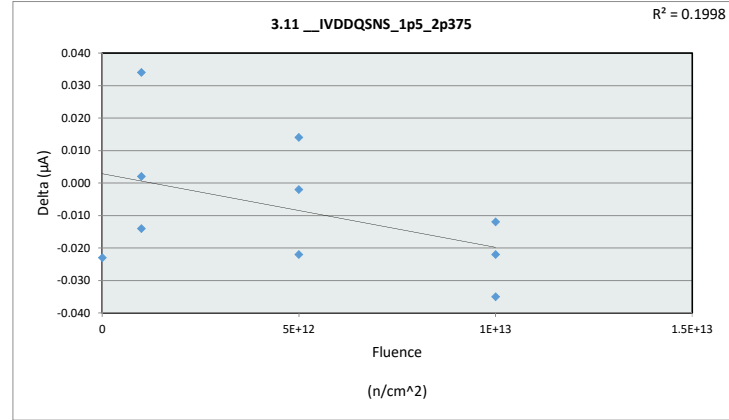
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	3.962	3.925	3.894	3.892
Average	3.962	3.956	3.915	3.907
Max	3.962	3.980	3.935	3.929
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

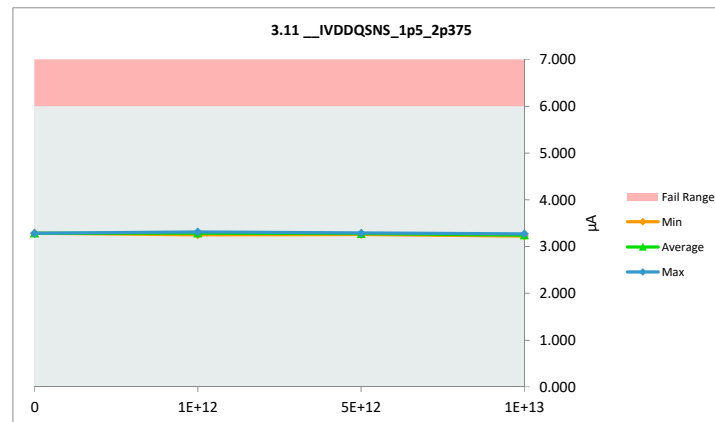
3.11_IVDDQSN5_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	6
Min Limit	6

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.306	3.283	-0.023
1E+12	2	3.249	3.283	0.034
1E+12	3	3.314	3.316	0.002
1E+12	4	3.263	3.249	-0.014
5E+12	5	3.267	3.281	0.014
5E+12	6	3.279	3.257	-0.022
5E+12	7	3.289	3.287	-0.002
1E+13	8	3.281	3.269	-0.012
1E+13	9	3.261	3.226	-0.035
1E+13	10	3.267	3.245	-0.022
	Max	3.314	3.316	0.034
	Average	3.278	3.270	-0.008
	Min	3.249	3.226	-0.035
	Std Dev	0.021	0.026	0.020



3.11_IVDDQSN5_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	6 μA
Min Limit	6 μA

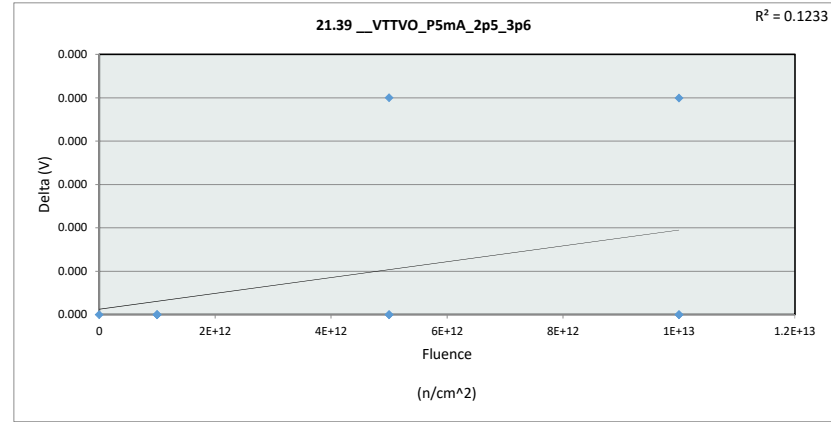
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	3.283	3.249	3.257	3.226
Average	3.283	3.283	3.275	3.247
Max	3.283	3.316	3.287	3.269
UL	6.000	6.000	6.000	6.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

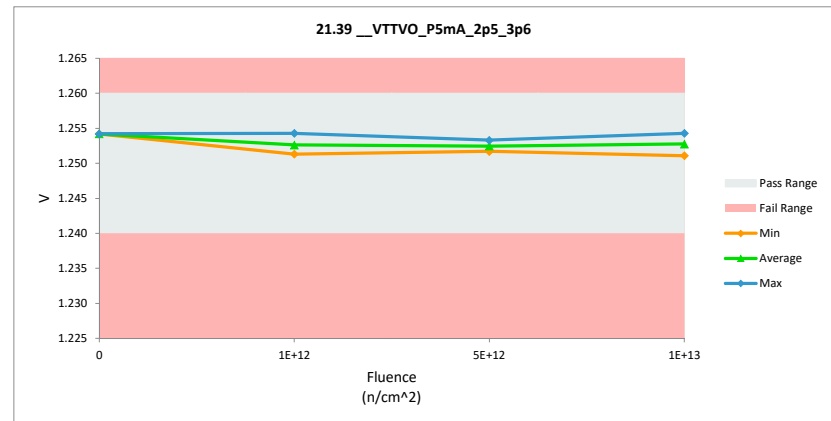
21.39_VTTVO_P5mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.26 1.26
Min Limit	1.24 1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.254	1.254	0.000
1E+12	2	1.252	1.252	0.000
1E+12	3	1.251	1.251	0.000
1E+12	4	1.254	1.254	0.000
5E+12	5	1.253	1.253	0.000
5E+12	6	1.252	1.252	0.000
5E+12	7	1.252	1.252	0.000
1E+13	8	1.254	1.254	0.000
1E+13	9	1.251	1.251	0.000
1E+13	10	1.253	1.253	0.000
Max		1.254	1.254	0.000
Average		1.253	1.253	0.000
Min		1.251	1.251	0.000
Std Dev		0.001	0.001	0.000



21.39_VTTVO_P5mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.26 V
Min Limit	1.24 V

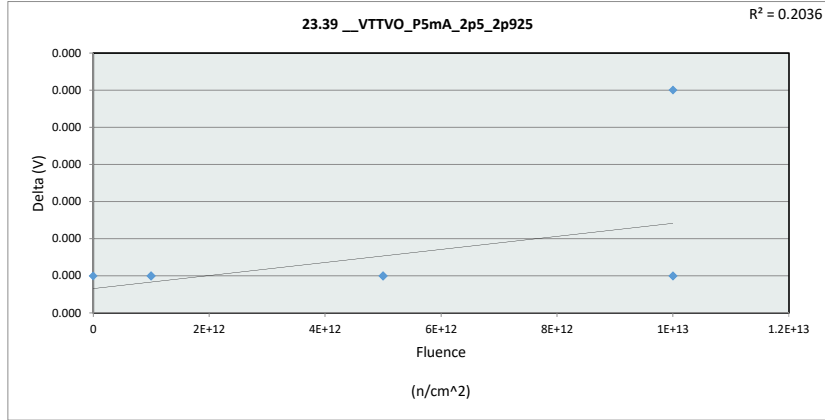
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.254	1.251	1.252	1.251
Average	1.254	1.253	1.252	1.253
Max	1.254	1.253	1.253	1.254
UL	1.260	1.260	1.260	1.260



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

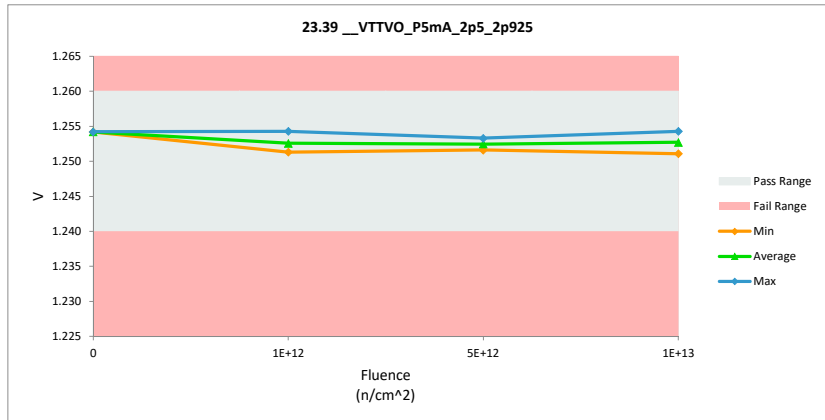
23.39_VTTVO_P5mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.26 1.26
Min Limit	1.24 1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.254	1.254	0.000
1E+12	2	1.252	1.252	0.000
1E+12	3	1.251	1.251	0.000
1E+12	4	1.254	1.254	0.000
5E+12	5	1.253	1.253	0.000
5E+12	6	1.252	1.252	0.000
5E+12	7	1.252	1.252	0.000
1E+13	8	1.254	1.254	0.000
1E+13	9	1.251	1.251	0.000
1E+13	10	1.253	1.253	0.000
Max		1.254	1.254	0.000
Average		1.253	1.253	0.000
Min		1.251	1.251	0.000
Std Dev		0.001	0.001	0.000



23.39_VTTVO_P5mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.26 V
Min Limit	1.24 V

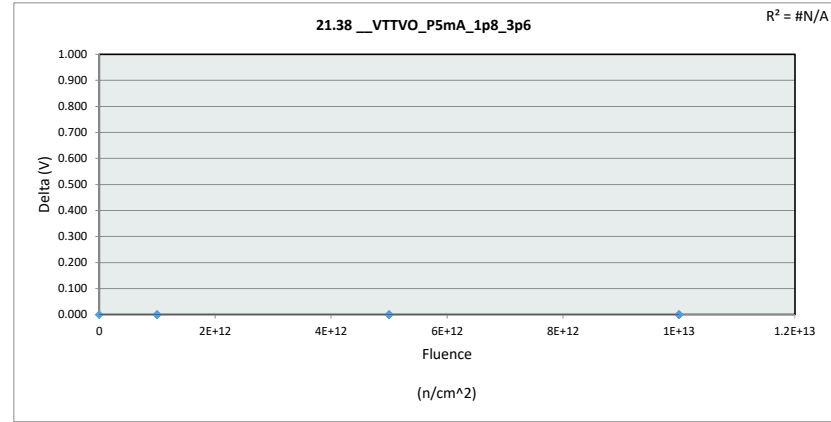
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.254	1.251	1.252	1.251
Average	1.254	1.253	1.252	1.253
Max	1.254	1.253	1.253	1.254
UL	1.260	1.260	1.260	1.260



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

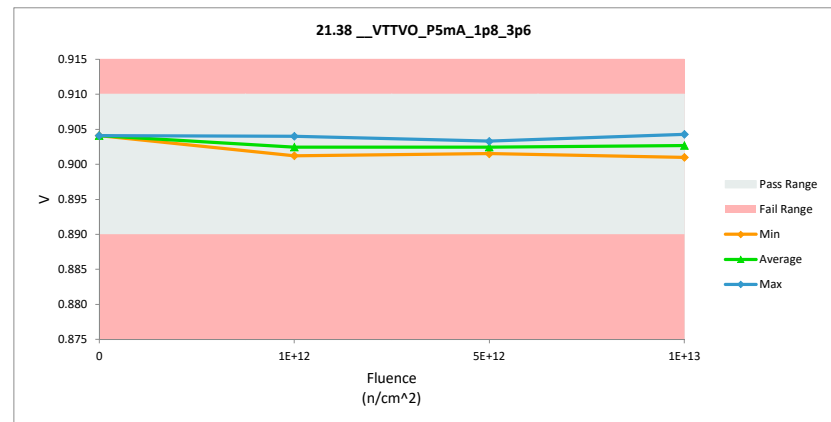
21.38_VTTVO_P5mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.91 0.91
Min Limit	0.89 0.89

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.904	0.904	0.000
1E+12	2	0.902	0.902	0.000
1E+12	3	0.901	0.901	0.000
1E+12	4	0.904	0.904	0.000
5E+12	5	0.903	0.903	0.000
5E+12	6	0.901	0.901	0.000
5E+12	7	0.902	0.902	0.000
1E+13	8	0.904	0.904	0.000
1E+13	9	0.901	0.901	0.000
1E+13	10	0.903	0.903	0.000
	Max	0.904	0.904	0.000
	Average	0.903	0.903	0.000
	Min	0.901	0.901	0.000
	Std Dev	0.001	0.001	0.000



21.38_VTTVO_P5mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.91 V
Min Limit	0.89 V

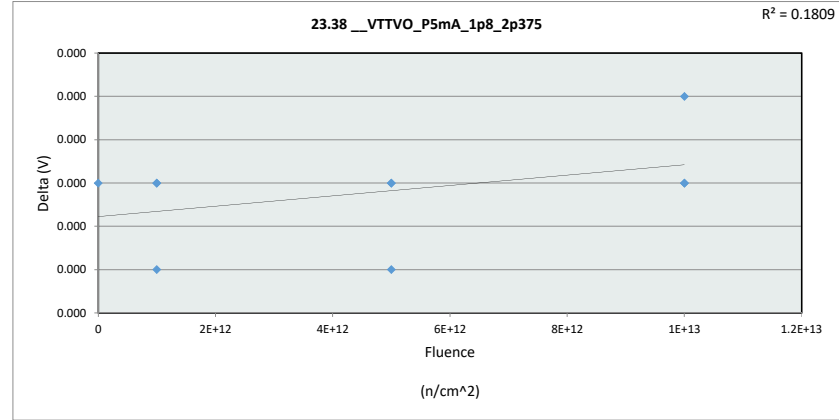
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.890	0.890	0.890	0.890
Min	0.904	0.901	0.902	0.901
Average	0.904	0.902	0.902	0.903
Max	0.904	0.904	0.903	0.904
UL	0.910	0.910	0.910	0.910



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

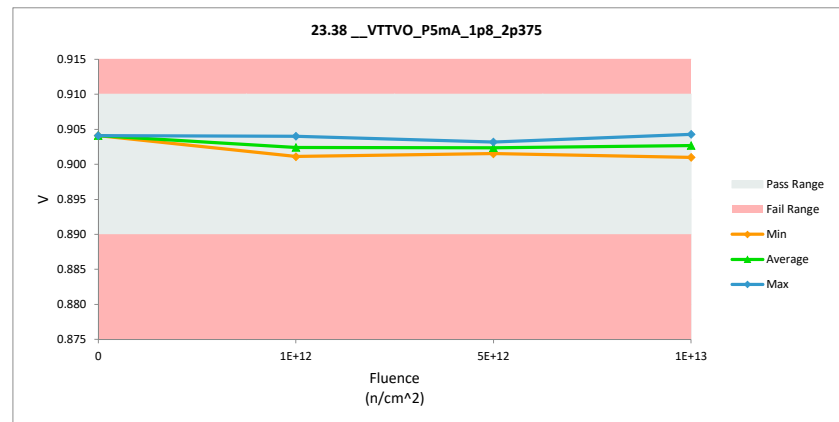
23.38_VTTVO_P5mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.91 0.91
Min Limit	0.89 0.89

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.904	0.904	0.000
1E+12	2	0.902	0.902	0.000
1E+12	3	0.901	0.901	0.000
1E+12	4	0.904	0.904	0.000
5E+12	5	0.903	0.903	0.000
5E+12	6	0.901	0.901	0.000
5E+12	7	0.902	0.902	0.000
1E+13	8	0.904	0.904	0.000
1E+13	9	0.901	0.901	0.000
1E+13	10	0.903	0.903	0.000
Max		0.904	0.904	0.000
Average		0.903	0.903	0.000
Min		0.901	0.901	0.000
Std Dev		0.001	0.001	0.000



23.38_VTTVO_P5mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.91 V
Min Limit	0.89 V

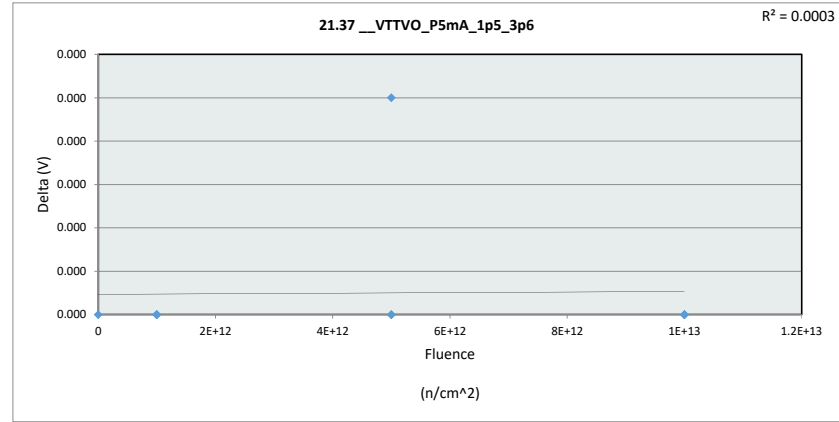
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.890	0.890	0.890	0.890
Min	0.904	0.901	0.902	0.901
Average	0.904	0.902	0.902	0.903
Max	0.904	0.904	0.903	0.904
UL	0.910	0.910	0.910	0.910



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

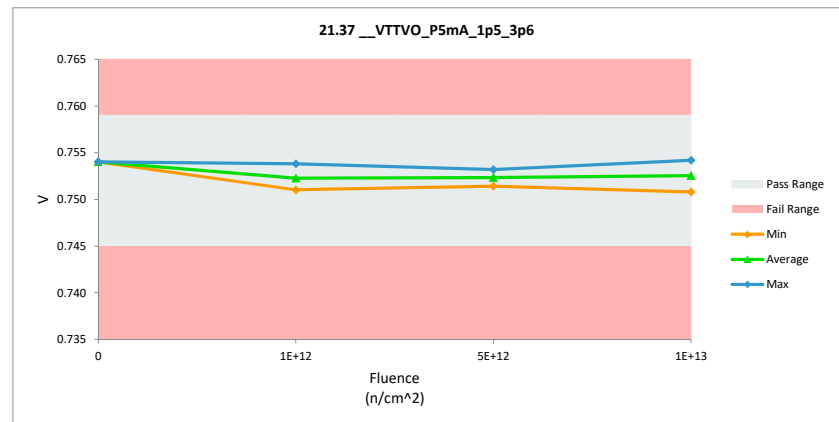
21.37 __ VTTVO_P5mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.759 0.759
Min Limit	0.745 0.745

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.754	0.754	0.000
1E+12	2	0.752	0.752	0.000
1E+12	3	0.751	0.751	0.000
1E+12	4	0.754	0.754	0.000
5E+12	5	0.753	0.753	0.000
5E+12	6	0.751	0.751	0.000
5E+12	7	0.752	0.752	0.000
1E+13	8	0.754	0.754	0.000
1E+13	9	0.751	0.751	0.000
1E+13	10	0.753	0.753	0.000
Max		0.754	0.754	0.000
Average		0.753	0.753	0.000
Min		0.751	0.751	0.000
Std Dev		0.001	0.001	0.000



21.37 __ VTTVO_P5mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.759 V
Min Limit	0.745 V

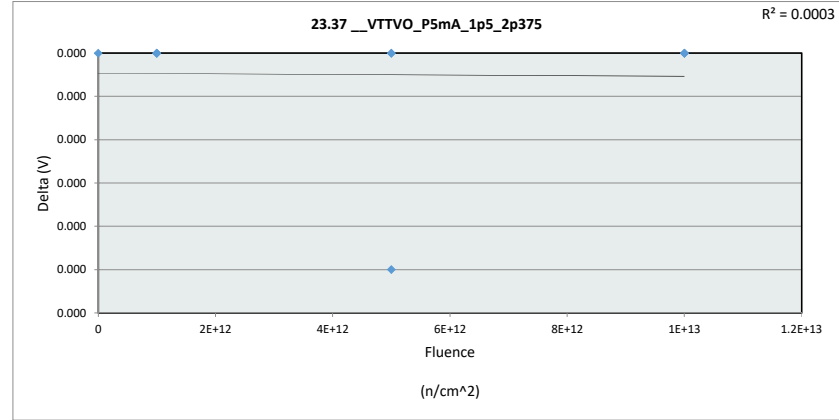
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.745	0.745	0.745	0.745
Min	0.754	0.751	0.751	0.751
Average	0.754	0.752	0.752	0.753
Max	0.754	0.753	0.753	0.754
UL	0.759	0.759	0.759	0.759



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

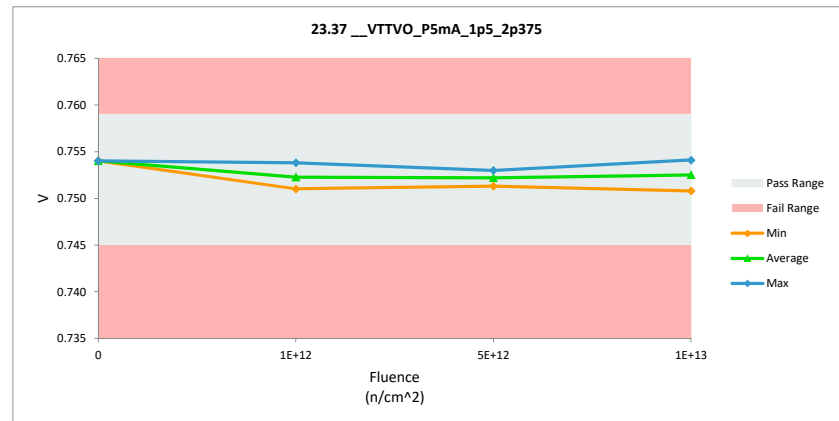
23.37 __ VTTVO_P5mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.759
Min Limit	0.745

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.754	0.754	0.000
1E+12	2	0.752	0.752	0.000
1E+12	3	0.751	0.751	0.000
1E+12	4	0.754	0.754	0.000
5E+12	5	0.753	0.753	0.000
5E+12	6	0.751	0.751	0.000
5E+12	7	0.752	0.752	0.000
1E+13	8	0.754	0.754	0.000
1E+13	9	0.751	0.751	0.000
1E+13	10	0.753	0.753	0.000
Max		0.754	0.754	0.000
Average		0.752	0.752	0.000
Min		0.751	0.751	0.000
Std Dev		0.001	0.001	0.000



23.37 __ VTTVO_P5mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.759
Min Limit	0.745

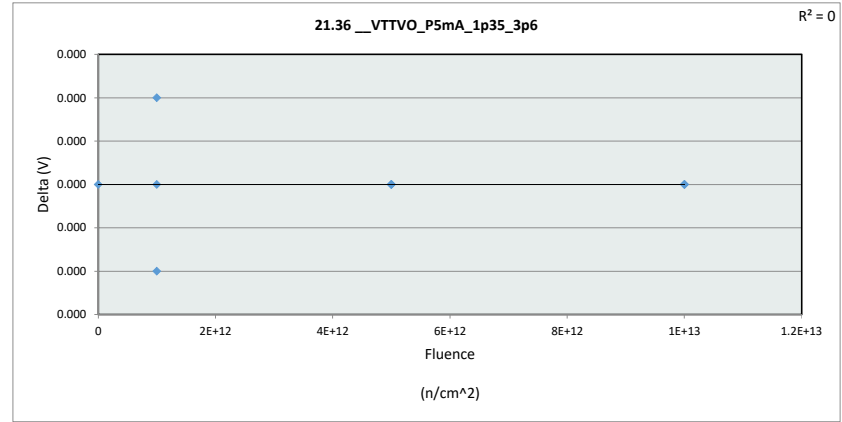
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.745	0.745	0.745	0.745
Min	0.754	0.751	0.751	0.751
Average	0.754	0.752	0.752	0.753
Max	0.754	0.753	0.753	0.754
UL	0.759	0.759	0.759	0.759



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

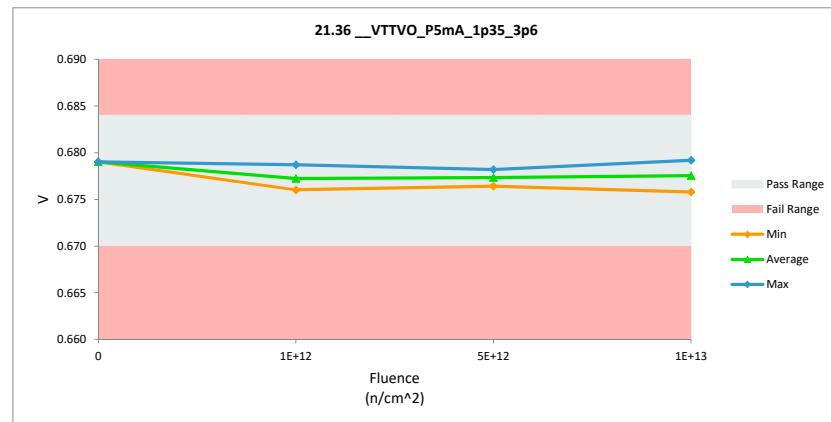
21.36_VTTVO_P5mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.684 0.684
Min Limit	0.67 0.67

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.679	0.679	0.000
1E+12	2	0.677	0.677	0.000
1E+12	3	0.676	0.676	0.000
1E+12	4	0.679	0.679	0.000
5E+12	5	0.678	0.678	0.000
5E+12	6	0.676	0.676	0.000
5E+12	7	0.677	0.677	0.000
1E+13	8	0.679	0.679	0.000
1E+13	9	0.676	0.676	0.000
1E+13	10	0.678	0.678	0.000
Max		0.679	0.679	0.000
Average		0.678	0.678	0.000
Min		0.676	0.676	0.000
Std Dev		0.001	0.001	0.000



21.36_VTTVO_P5mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.684 V
Min Limit	0.67 V

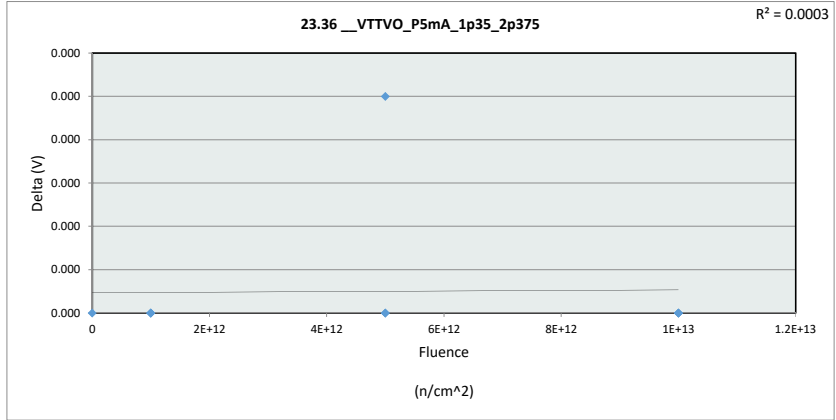
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.670	0.670	0.670	0.670
Min	0.679	0.676	0.676	0.676
Average	0.679	0.677	0.677	0.678
Max	0.679	0.679	0.678	0.679
UL	0.684	0.684	0.684	0.684



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

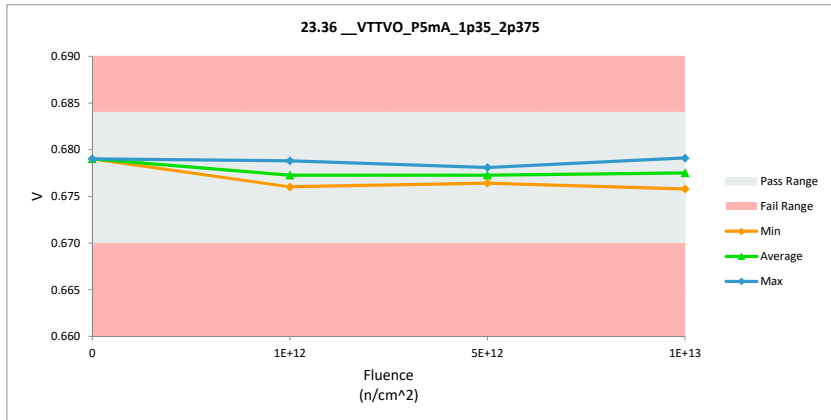
23.36_VTTVO_P5mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.684	0.684
Min Limit	0.67	0.67

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.679	0.679	0.000
1E+12	2	0.677	0.677	0.000
1E+12	3	0.676	0.676	0.000
1E+12	4	0.679	0.679	0.000
5E+12	5	0.678	0.678	0.000
5E+12	6	0.676	0.676	0.000
5E+12	7	0.677	0.677	0.000
1E+13	8	0.679	0.679	0.000
1E+13	9	0.676	0.676	0.000
1E+13	10	0.678	0.678	0.000
	Max	0.679	0.679	0.000
	Average	0.677	0.678	0.000
	Min	0.676	0.676	0.000
	Std Dev	0.001	0.001	0.000



23.36_VTTVO_P5mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.684	V
Min Limit	0.67	V

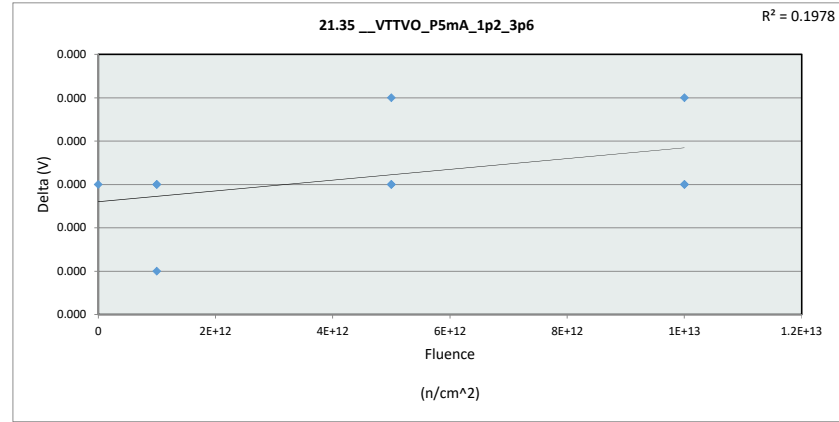
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.670	0.670	0.670	0.670
Min	0.679	0.676	0.676	0.676
Average	0.679	0.677	0.677	0.678
Max	0.679	0.679	0.678	0.679
UL	0.684	0.684	0.684	0.684



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

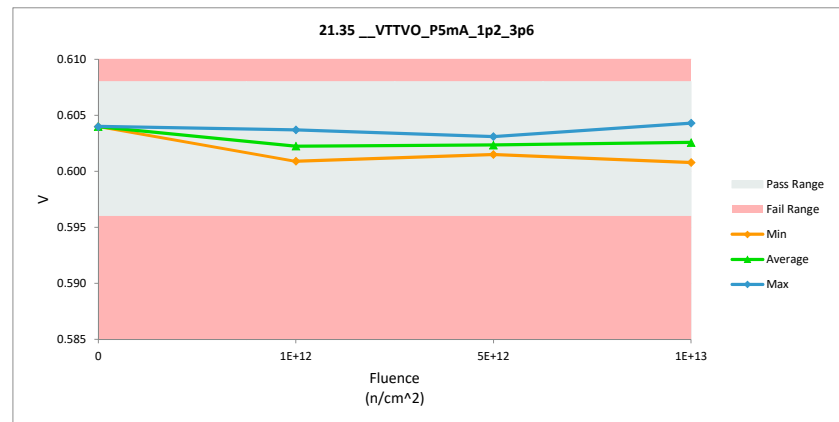
21.35 __ VTTVO_P5mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.608
Min Limit	0.596

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.604	0.604	0.000
1E+12	2	0.602	0.602	0.000
1E+12	3	0.601	0.601	0.000
1E+12	4	0.604	0.604	0.000
5E+12	5	0.603	0.603	0.000
5E+12	6	0.601	0.601	0.000
5E+12	7	0.602	0.602	0.000
1E+13	8	0.604	0.604	0.000
1E+13	9	0.601	0.601	0.000
1E+13	10	0.603	0.603	0.000
Max		0.604	0.604	0.000
Average		0.603	0.603	0.000
Min		0.601	0.601	0.000
Std Dev		0.001	0.001	0.000



21.35 __ VTTVO_P5mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.608
Min Limit	0.596

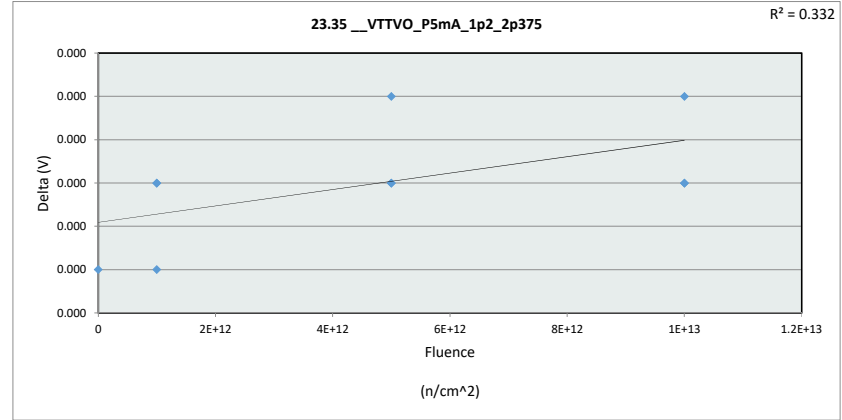
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.596	0.596	0.596	0.596
Min	0.604	0.601	0.602	0.601
Average	0.604	0.602	0.602	0.603
Max	0.604	0.604	0.603	0.604
UL	0.608	0.608	0.608	0.608



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

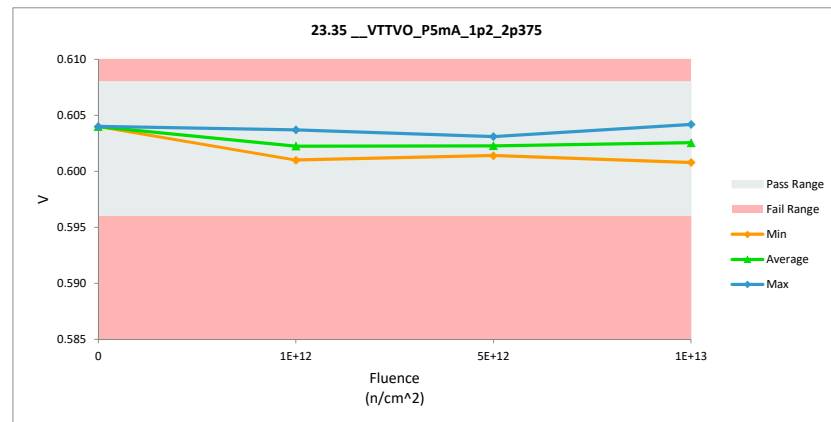
23.35_VTTVO_P5mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.608
Min Limit	0.596

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.604	0.604	0.000
1E+12	2	0.602	0.602	0.000
1E+12	3	0.601	0.601	0.000
1E+12	4	0.604	0.604	0.000
5E+12	5	0.603	0.603	0.000
5E+12	6	0.601	0.601	0.000
5E+12	7	0.602	0.602	0.000
1E+13	8	0.604	0.604	0.000
1E+13	9	0.601	0.601	0.000
1E+13	10	0.603	0.603	0.000
	Max	0.604	0.604	0.000
	Average	0.603	0.603	0.000
	Min	0.601	0.601	0.000
	Std Dev	0.001	0.001	0.000



23.35_VTTVO_P5mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.608
Min Limit	0.596

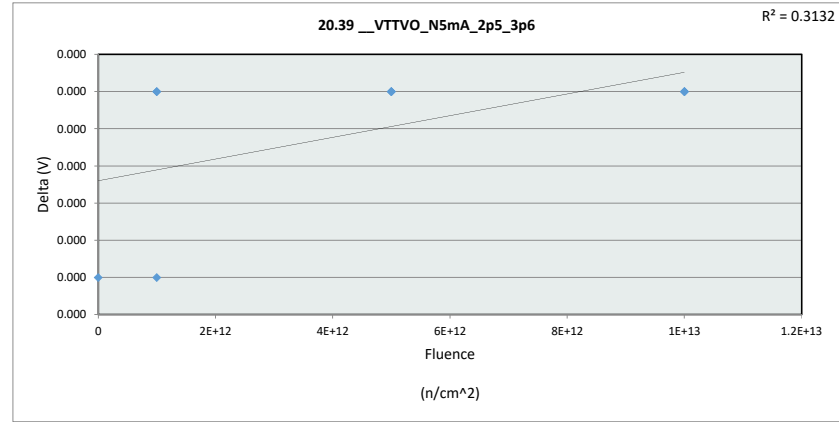
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.596	0.596	0.596	0.596
Min	0.604	0.601	0.601	0.601
Average	0.604	0.602	0.602	0.603
Max	0.604	0.604	0.603	0.604
UL	0.608	0.608	0.608	0.608



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

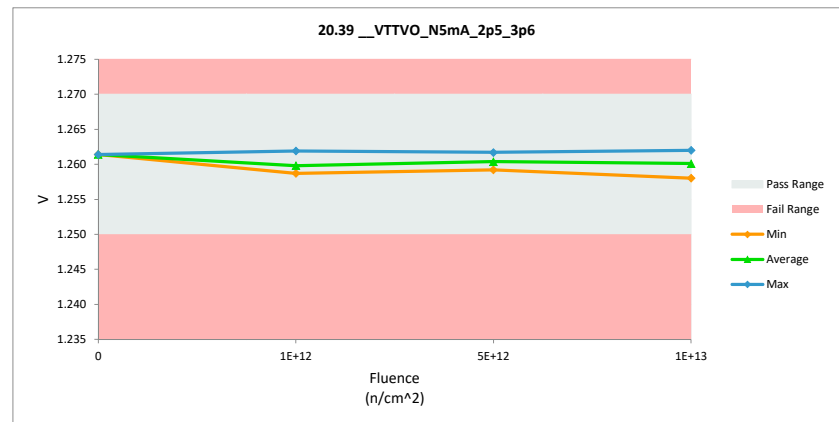
20.39_VTTVO_N5mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.27 1.27
Min Limit	1.25 1.25

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.262	1.261	0.000
1E+12	2	1.259	1.259	0.000
1E+12	3	1.259	1.259	0.000
1E+12	4	1.262	1.262	0.000
5E+12	5	1.262	1.262	0.000
5E+12	6	1.259	1.259	0.000
5E+12	7	1.260	1.260	0.000
1E+13	8	1.262	1.262	0.000
1E+13	9	1.258	1.258	0.000
1E+13	10	1.260	1.260	0.000
Max		1.262	1.262	0.000
Average		1.260	1.260	0.000
Min		1.258	1.258	0.000
Std Dev		0.001	0.001	0.000



20.39_VTTVO_N5mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.27 V
Min Limit	1.25 V

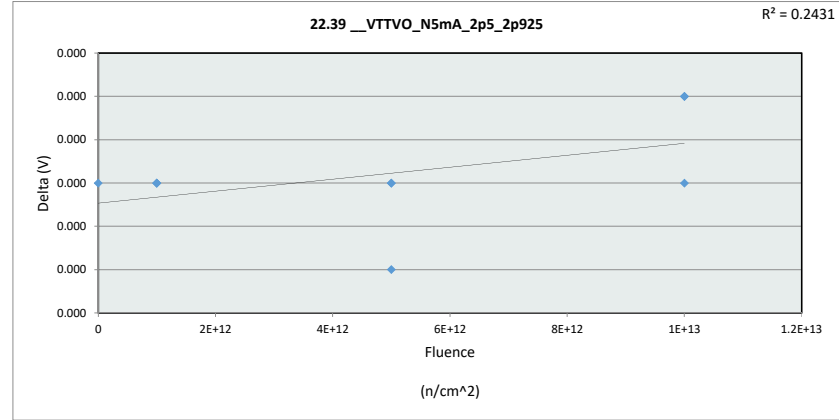
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.250	1.250	1.250	1.250
Min	1.261	1.259	1.259	1.258
Average	1.261	1.260	1.260	1.260
Max	1.261	1.262	1.262	1.262
UL	1.270	1.270	1.270	1.270



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

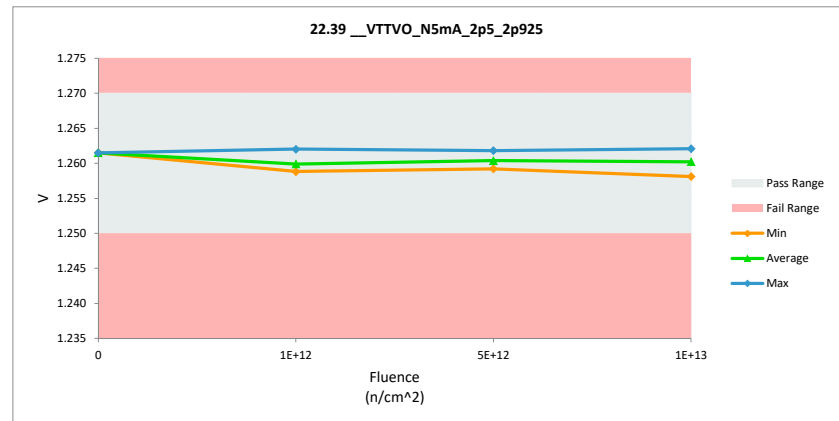
22.39_VTTVO_N5mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.27 1.27
Min Limit	1.25 1.25

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.262	1.262	0.000
1E+12	2	1.259	1.259	0.000
1E+12	3	1.259	1.259	0.000
1E+12	4	1.262	1.262	0.000
5E+12	5	1.262	1.262	0.000
5E+12	6	1.259	1.259	0.000
5E+12	7	1.260	1.260	0.000
1E+13	8	1.262	1.262	0.000
1E+13	9	1.258	1.258	0.000
1E+13	10	1.260	1.260	0.000
Max		1.262	1.262	0.000
Average		1.260	1.260	0.000
Min		1.258	1.258	0.000
Std Dev		0.001	0.001	0.000



22.39_VTTVO_N5mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.27 V
Min Limit	1.25 V

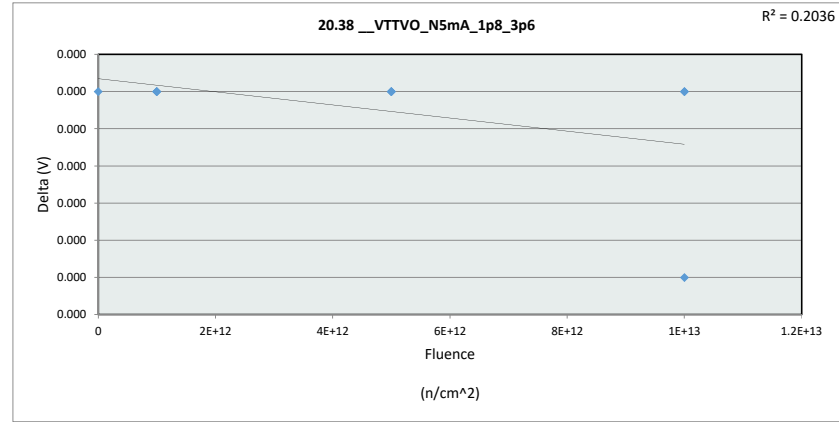
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.250	1.250	1.250	1.250
Min	1.262	1.259	1.259	1.258
Average	1.262	1.260	1.260	1.260
Max	1.262	1.262	1.262	1.262
UL	1.270	1.270	1.270	1.270



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

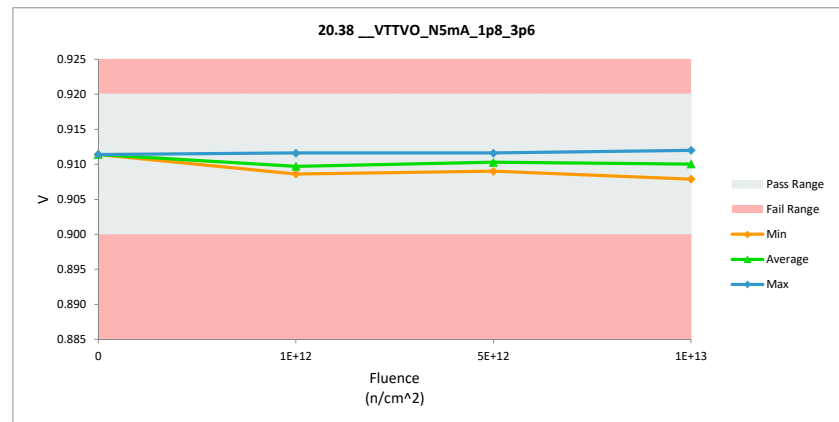
20.38_VTTVO_N5mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.92 0.92
Min Limit	0.9 0.9

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.911	0.911	0.000
1E+12	2	0.909	0.909	0.000
1E+12	3	0.909	0.909	0.000
1E+12	4	0.912	0.912	0.000
5E+12	5	0.912	0.912	0.000
5E+12	6	0.909	0.909	0.000
5E+12	7	0.910	0.910	0.000
1E+13	8	0.912	0.912	0.000
1E+13	9	0.908	0.908	0.000
1E+13	10	0.910	0.910	0.000
Max		0.912	0.912	0.000
Average		0.910	0.910	0.000
Min		0.908	0.908	0.000
Std Dev		0.001	0.001	0.000



20.38_VTTVO_N5mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.92 V
Min Limit	0.9 V

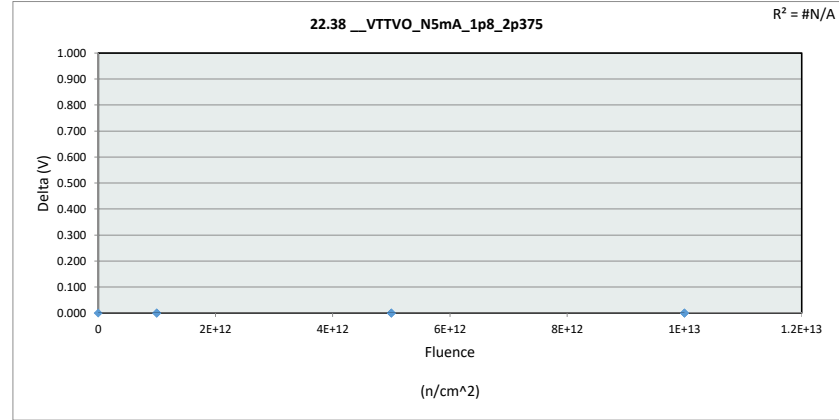
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.900	0.900	0.900	0.900
Min	0.911	0.909	0.909	0.908
Average	0.911	0.910	0.910	0.910
Max	0.911	0.912	0.912	0.912
UL	0.920	0.920	0.920	0.920



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

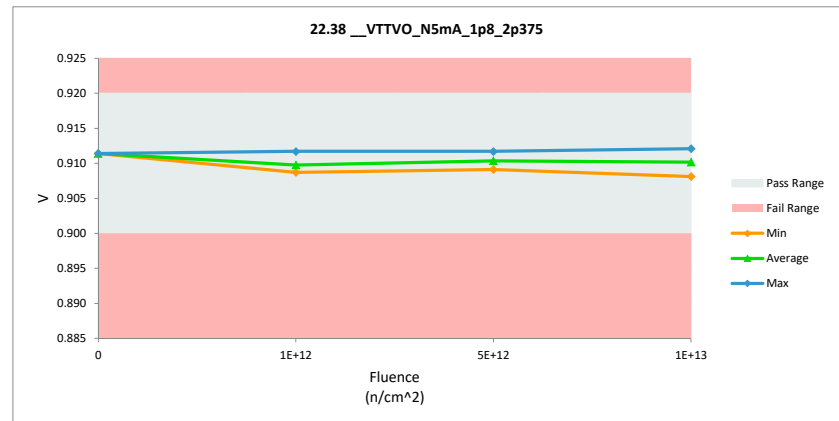
22.38_VTTVO_N5mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.92 0.92
Min Limit	0.9 0.9

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.911	0.911	0.000
1E+12	2	0.909	0.909	0.000
1E+12	3	0.909	0.909	0.000
1E+12	4	0.912	0.912	0.000
5E+12	5	0.912	0.912	0.000
5E+12	6	0.909	0.909	0.000
5E+12	7	0.910	0.910	0.000
1E+13	8	0.912	0.912	0.000
1E+13	9	0.908	0.908	0.000
1E+13	10	0.910	0.910	0.000
Max		0.912	0.912	0.000
Average		0.910	0.910	0.000
Min		0.908	0.908	0.000
Std Dev		0.001	0.001	0.000



22.38_VTTVO_N5mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.92 V
Min Limit	0.9 V

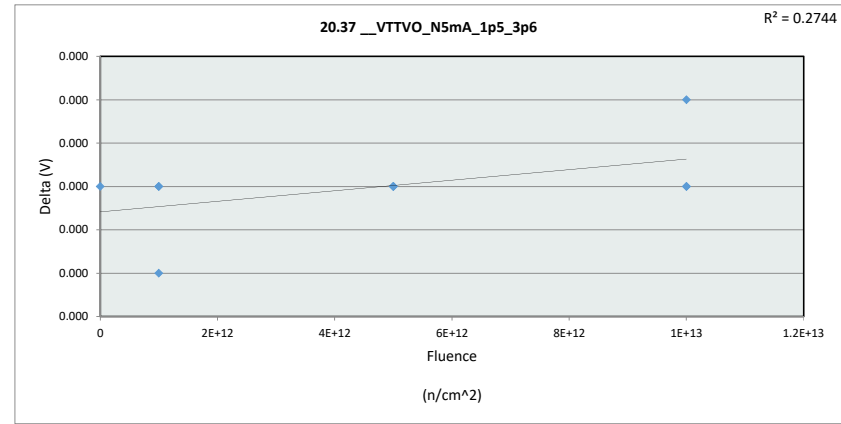
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.900	0.900	0.900	0.900
Min	0.911	0.909	0.909	0.908
Average	0.911	0.910	0.910	0.910
Max	0.911	0.912	0.912	0.912
UL	0.920	0.920	0.920	0.920



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

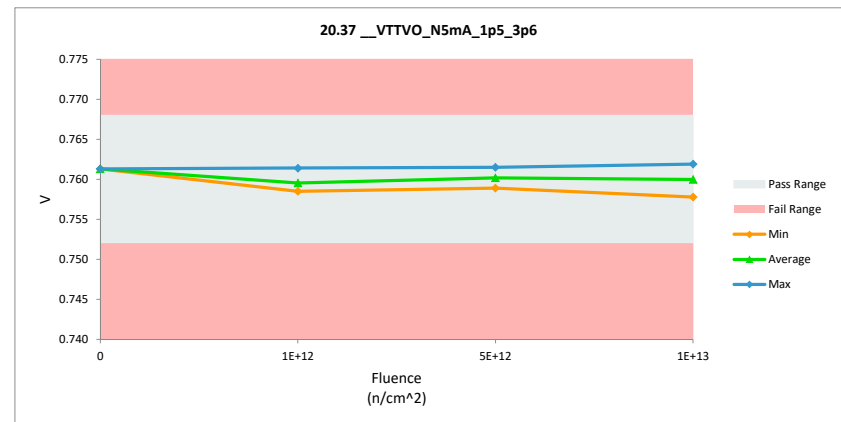
20.37 __ VTTVO_N5mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.768 0.768
Min Limit	0.752 0.752

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.761	0.761	0.000
1E+12	2	0.759	0.759	0.000
1E+12	3	0.758	0.758	0.000
1E+12	4	0.761	0.761	0.000
5E+12	5	0.762	0.762	0.000
5E+12	6	0.759	0.759	0.000
5E+12	7	0.760	0.760	0.000
1E+13	8	0.762	0.762	0.000
1E+13	9	0.758	0.758	0.000
1E+13	10	0.760	0.760	0.000
Max		0.762	0.762	0.000
Average		0.760	0.760	0.000
Min		0.758	0.758	0.000
Std Dev		0.001	0.001	0.000



20.37 __ VTTVO_N5mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.768 V
Min Limit	0.752 V

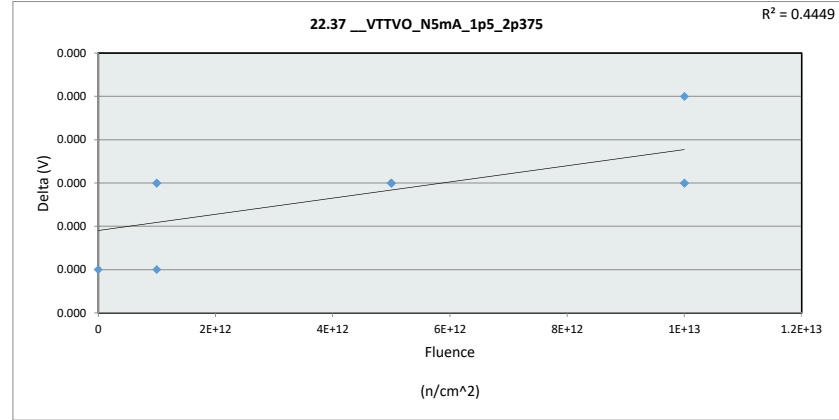
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.752	0.752	0.752	0.752
Min	0.761	0.759	0.759	0.758
Average	0.761	0.760	0.760	0.760
Max	0.761	0.762	0.762	0.762
UL	0.768	0.768	0.768	0.768



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

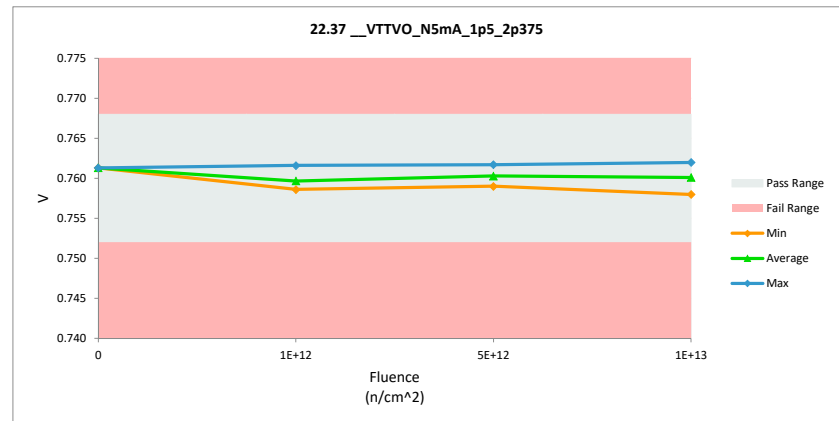
22.37 __ VTTVO_N5mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.768 0.768
Min Limit	0.752 0.752

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.761	0.761	0.000
1E+12	2	0.759	0.759	0.000
1E+12	3	0.759	0.759	0.000
1E+12	4	0.762	0.762	0.000
5E+12	5	0.762	0.762	0.000
5E+12	6	0.759	0.759	0.000
5E+12	7	0.760	0.760	0.000
1E+13	8	0.762	0.762	0.000
1E+13	9	0.758	0.758	0.000
1E+13	10	0.760	0.760	0.000
Max		0.762	0.762	0.000
Average		0.760	0.760	0.000
Min		0.758	0.758	0.000
Std Dev		0.001	0.001	0.000



22.37 __ VTTVO_N5mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.768 V
Min Limit	0.752 V

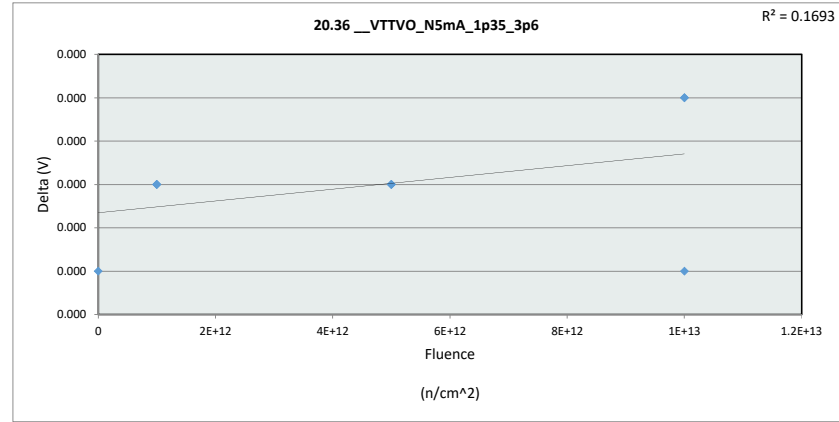
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.752	0.752	0.752	0.752
Min	0.761	0.759	0.759	0.758
Average	0.761	0.760	0.760	0.760
Max	0.761	0.762	0.762	0.762
UL	0.768	0.768	0.768	0.768



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

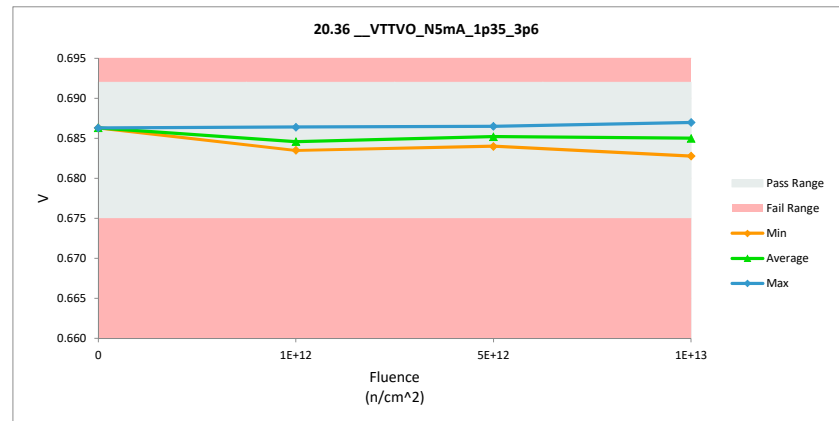
20.36_VTTVO_N5mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.692 0.692
Min Limit	0.675 0.675

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.686	0.686	0.000
1E+12	2	0.684	0.684	0.000
1E+12	3	0.683	0.683	0.000
1E+12	4	0.686	0.686	0.000
5E+12	5	0.687	0.687	0.000
5E+12	6	0.684	0.684	0.000
5E+12	7	0.685	0.685	0.000
1E+13	8	0.687	0.687	0.000
1E+13	9	0.683	0.683	0.000
1E+13	10	0.685	0.685	0.000
Max		0.687	0.687	0.000
Average		0.685	0.685	0.000
Min		0.683	0.683	0.000
Std Dev		0.001	0.001	0.000



20.36_VTTVO_N5mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.692 V
Min Limit	0.675 V

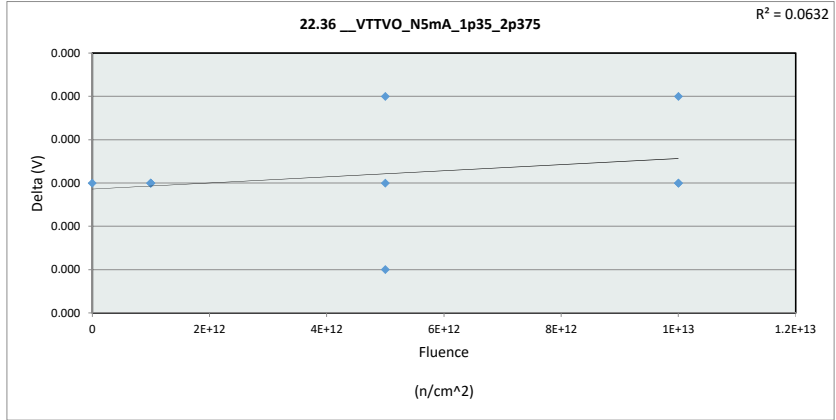
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.675	0.675	0.675	0.675
Min	0.686	0.684	0.684	0.683
Average	0.686	0.685	0.685	0.685
Max	0.686	0.687	0.687	0.687
UL	0.692	0.692	0.692	0.692



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

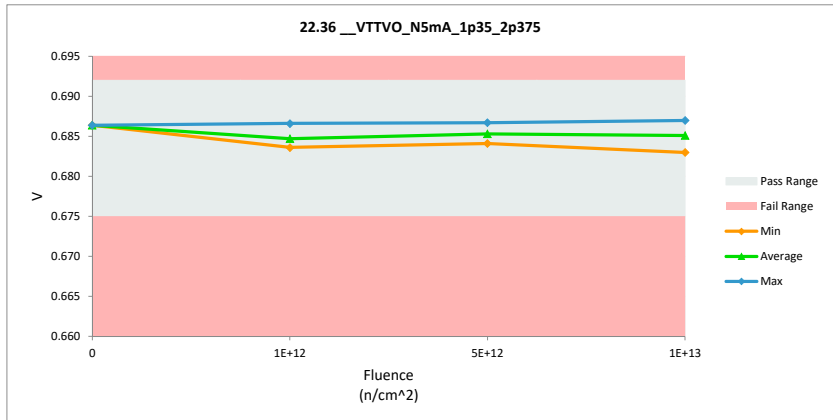
22.36_VTTVO_N5mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.692	0.692
Min Limit	0.675	0.675

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.686	0.686	0.000
1E+12	2	0.684	0.684	0.000
1E+12	3	0.684	0.684	0.000
1E+12	4	0.687	0.687	0.000
5E+12	5	0.687	0.687	0.000
5E+12	6	0.684	0.684	0.000
5E+12	7	0.685	0.685	0.000
1E+13	8	0.687	0.687	0.000
1E+13	9	0.683	0.683	0.000
1E+13	10	0.685	0.685	0.000
	Max	0.687	0.687	0.000
	Average	0.685	0.685	0.000
	Min	0.683	0.683	0.000
	Std Dev	0.001	0.001	0.000



22.36_VTTVO_N5mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.692	V
Min Limit	0.675	V

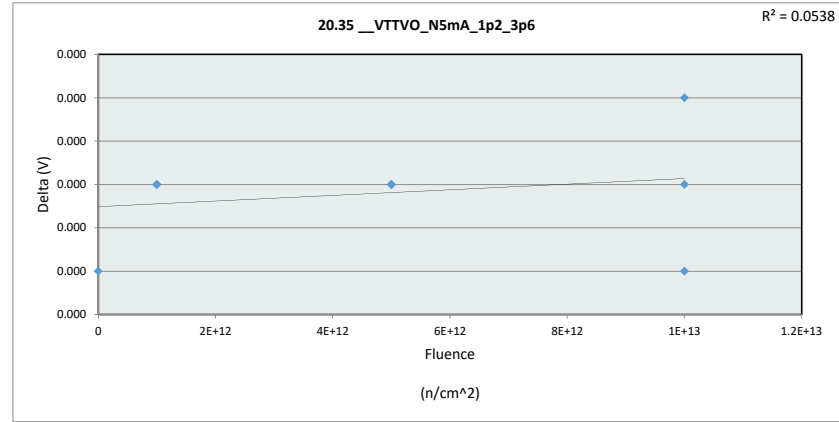
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.675	0.675	0.675	0.675
Min	0.686	0.684	0.684	0.683
Average	0.686	0.685	0.685	0.685
Max	0.686	0.687	0.687	0.687
UL	0.692	0.692	0.692	0.692



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

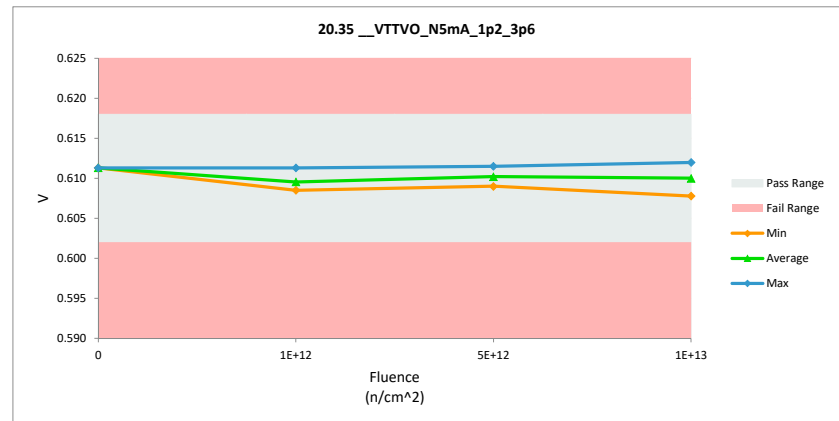
20.35_VTTVO_N5mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.618
Min Limit	0.602

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.611	0.611	0.000
1E+12	2	0.609	0.609	0.000
1E+12	3	0.609	0.609	0.000
1E+12	4	0.611	0.611	0.000
5E+12	5	0.612	0.612	0.000
5E+12	6	0.609	0.609	0.000
5E+12	7	0.610	0.610	0.000
1E+13	8	0.612	0.612	0.000
1E+13	9	0.608	0.608	0.000
1E+13	10	0.610	0.610	0.000
Max		0.612	0.612	0.000
Average		0.610	0.610	0.000
Min		0.608	0.608	0.000
Std Dev		0.001	0.001	0.000



20.35_VTTVO_N5mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.618
Min Limit	0.602

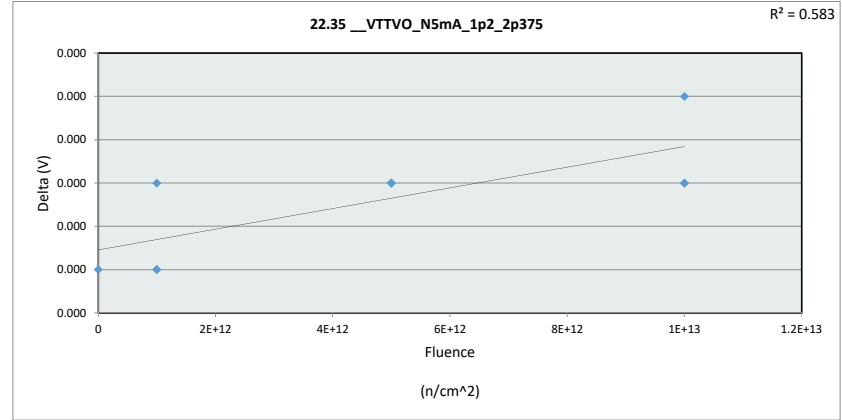
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.602	0.602	0.602	0.602
Min	0.611	0.609	0.609	0.608
Average	0.611	0.610	0.610	0.610
Max	0.611	0.611	0.612	0.612
UL	0.618	0.618	0.618	0.618



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

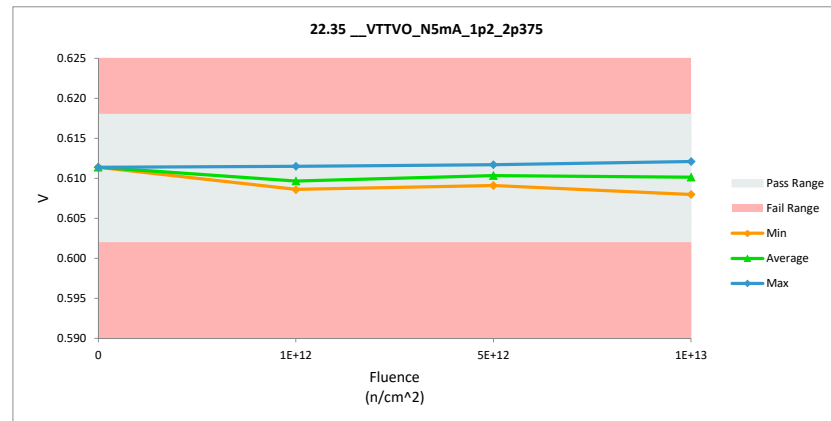
22.35_VTTVO_N5mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.618 0.618
Min Limit	0.602 0.602

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.612	0.611	0.000
1E+12	2	0.609	0.609	0.000
1E+12	3	0.609	0.609	0.000
1E+12	4	0.612	0.612	0.000
5E+12	5	0.612	0.612	0.000
5E+12	6	0.609	0.609	0.000
5E+12	7	0.610	0.610	0.000
1E+13	8	0.612	0.612	0.000
1E+13	9	0.608	0.608	0.000
1E+13	10	0.610	0.610	0.000
	Max	0.612	0.612	0.000
	Average	0.610	0.610	0.000
	Min	0.608	0.608	0.000
	Std Dev	0.001	0.001	0.000



22.35_VTTVO_N5mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.618 V
Min Limit	0.602 V

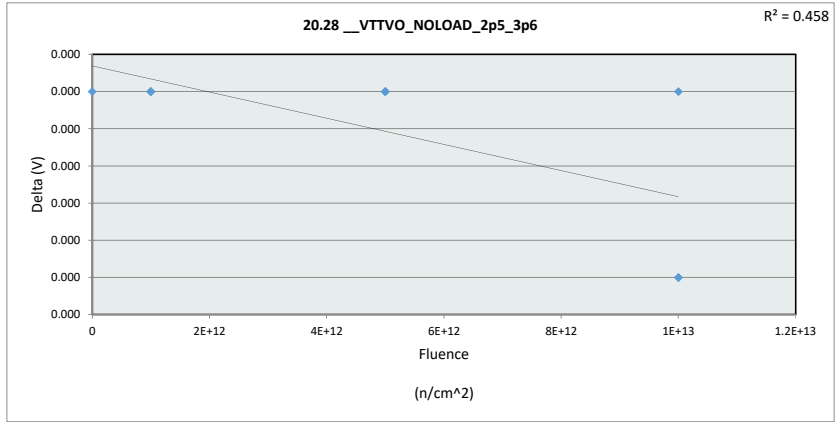
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.602	0.602	0.602	0.602
Min	0.611	0.609	0.609	0.608
Average	0.611	0.610	0.610	0.610
Max	0.612	0.612	0.612	0.612
UL	0.618	0.618	0.618	0.618



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

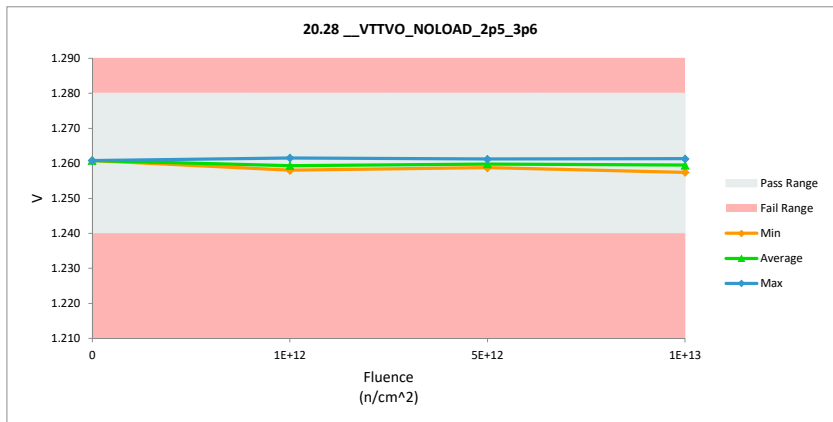
20.28_VTTVO_NOLOAD_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.261	1.261	0.000
1E+12	2	1.258	1.258	0.000
1E+12	3	1.258	1.258	0.000
1E+12	4	1.262	1.262	0.000
5E+12	5	1.261	1.261	0.000
5E+12	6	1.259	1.259	0.000
5E+12	7	1.259	1.259	0.000
1E+13	8	1.261	1.261	0.000
1E+13	9	1.258	1.257	0.000
1E+13	10	1.260	1.260	0.000
	Max	1.262	1.262	0.000
	Average	1.260	1.260	0.000
	Min	1.258	1.257	0.000
	Std Dev	0.001	0.001	0.000



20.28_VTTVO_NOLOAD_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

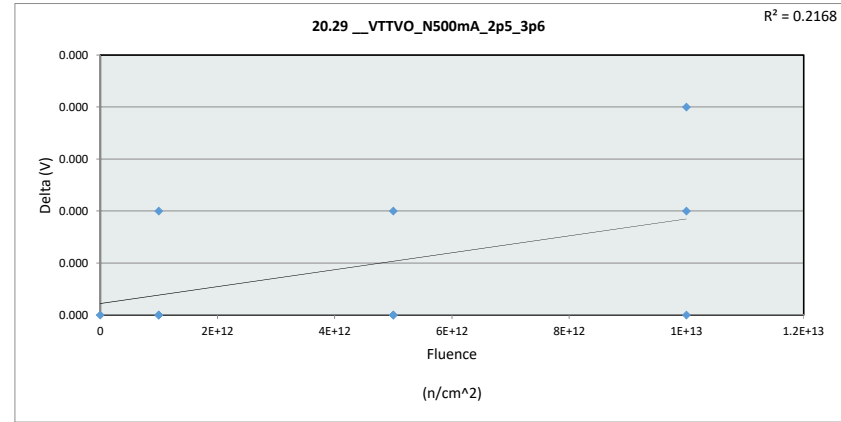
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.261	1.258	1.259	1.257
Average	1.261	1.259	1.260	1.259
Max	1.261	1.262	1.261	1.261
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

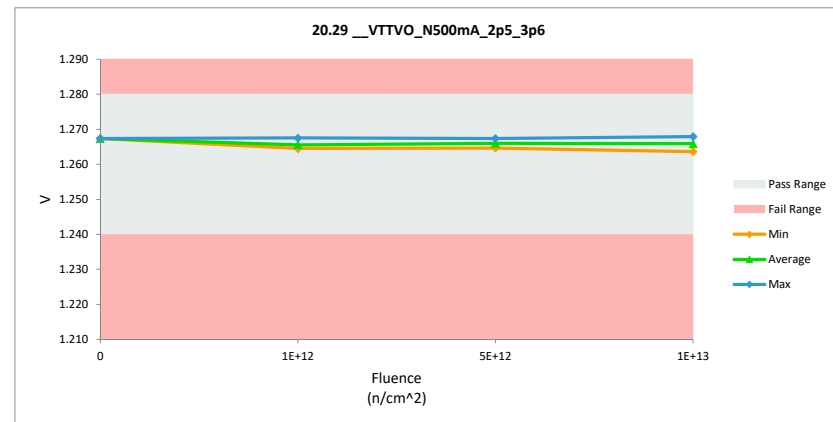
20.29_VTTVO_N500mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.28 1.28
Min Limit	1.24 1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.267	1.267	0.000
1E+12	2	1.264	1.265	0.000
1E+12	3	1.265	1.265	0.000
1E+12	4	1.268	1.268	0.000
5E+12	5	1.267	1.267	0.000
5E+12	6	1.265	1.265	0.000
5E+12	7	1.266	1.266	0.000
1E+13	8	1.268	1.268	0.000
1E+13	9	1.264	1.264	0.000
1E+13	10	1.266	1.266	0.000
	Max	1.268	1.268	0.000
	Average	1.266	1.266	0.000
	Min	1.264	1.264	0.000
	Std Dev	0.002	0.002	0.000



20.29_VTTVO_N500mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.28 V
Min Limit	1.24 V

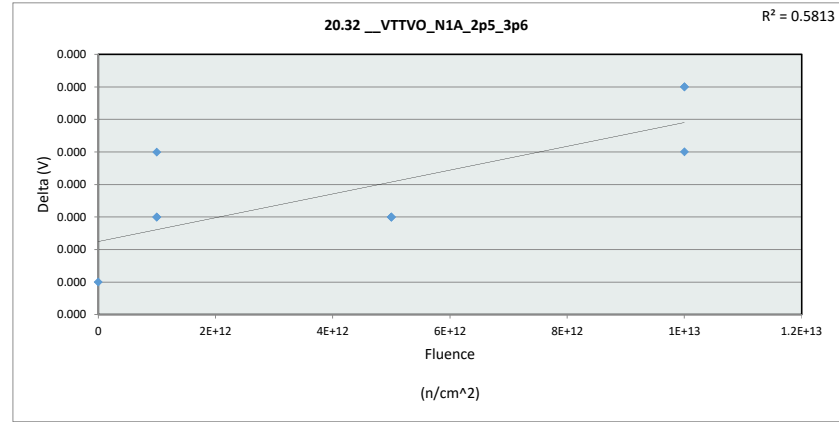
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.267	1.265	1.265	1.264
Average	1.267	1.266	1.266	1.266
Max	1.267	1.266	1.267	1.268
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

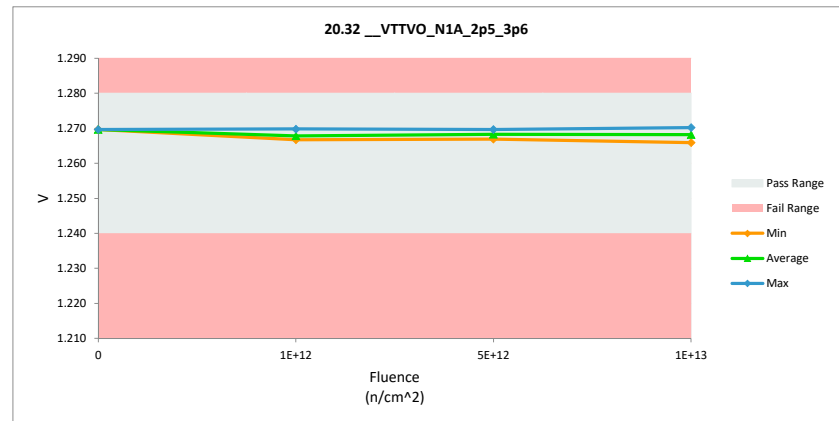
20.32 __ VTTVO_N1A_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.28 1.28
Min Limit	1.24 1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.270	1.270	0.000
1E+12	2	1.267	1.267	0.000
1E+12	3	1.267	1.267	0.000
1E+12	4	1.270	1.270	0.000
5E+12	5	1.270	1.270	0.000
5E+12	6	1.267	1.267	0.000
5E+12	7	1.268	1.268	0.000
1E+13	8	1.270	1.270	0.000
1E+13	9	1.266	1.266	0.000
1E+13	10	1.268	1.268	0.000
Max		1.270	1.270	0.000
Average		1.268	1.268	0.000
Min		1.266	1.266	0.000
Std Dev		0.002	0.002	0.000



20.32 __ VTTVO_N1A_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.28 V
Min Limit	1.24 V

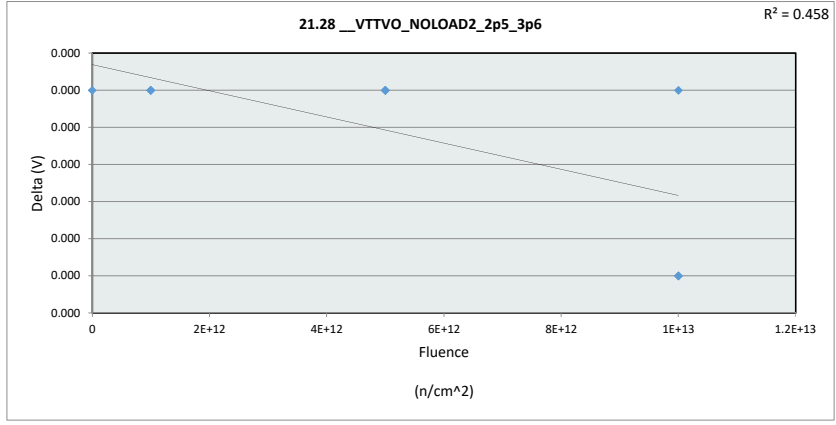
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.270	1.267	1.267	1.266
Average	1.270	1.268	1.268	1.268
Max	1.270	1.270	1.270	1.270
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

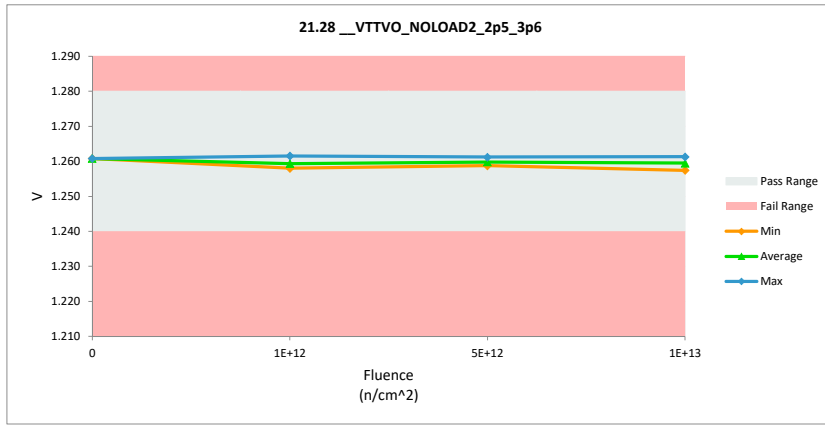
21.28_VTTVO_NOLOAD2_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.261	1.261	0.000
1E+12	2	1.258	1.258	0.000
1E+12	3	1.258	1.258	0.000
1E+12	4	1.262	1.262	0.000
5E+12	5	1.261	1.261	0.000
5E+12	6	1.259	1.259	0.000
5E+12	7	1.259	1.259	0.000
1E+13	8	1.261	1.261	0.000
1E+13	9	1.258	1.257	0.000
1E+13	10	1.260	1.260	0.000
	Max	1.262	1.262	0.000
	Average	1.260	1.260	0.000
	Min	1.258	1.257	0.000
	Std Dev	0.001	0.001	0.000



21.28_VTTVO_NOLOAD2_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

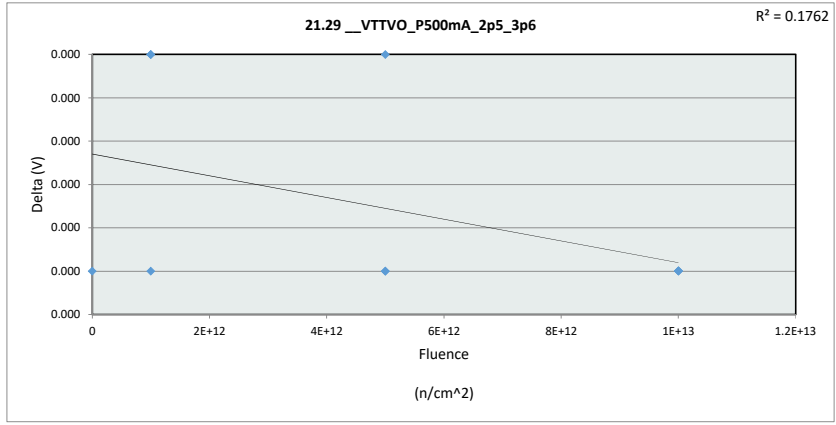
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.261	1.258	1.259	1.257
Average	1.261	1.259	1.260	1.259
Max	1.261	1.262	1.261	1.261
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

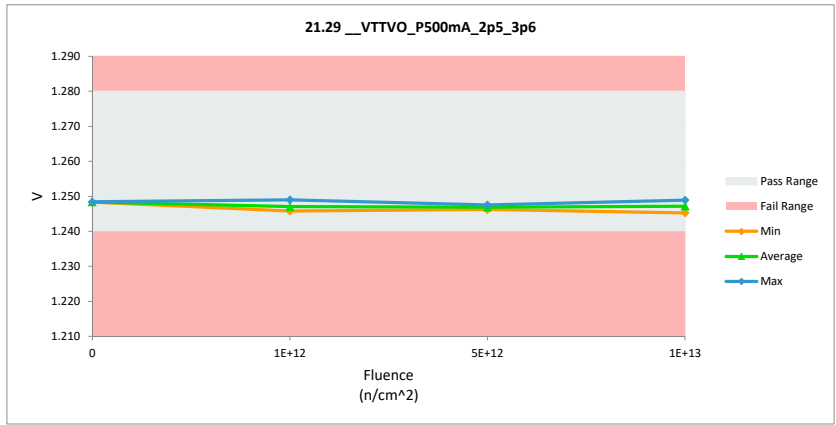
21.29_VTTVO_P500mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.28 1.28
Min Limit	1.24 1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.248	1.248	0.000
1E+12	2	1.246	1.246	0.000
1E+12	3	1.246	1.246	0.000
1E+12	4	1.249	1.249	0.000
5E+12	5	1.247	1.247	0.000
5E+12	6	1.246	1.246	0.000
5E+12	7	1.247	1.247	0.000
1E+13	8	1.249	1.249	0.000
1E+13	9	1.245	1.245	0.000
1E+13	10	1.247	1.247	0.000
	Max	1.249	1.249	0.000
	Average	1.247	1.247	0.000
	Min	1.245	1.245	0.000
	Std Dev	0.001	0.001	0.000



21.29_VTTVO_P500mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.28 V
Min Limit	1.24 V

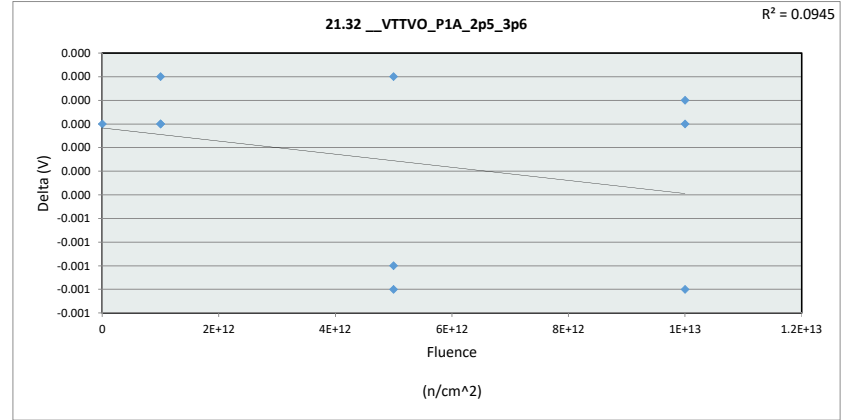
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.248	1.246	1.246	1.245
Average	1.248	1.247	1.247	1.247
Max	1.248	1.249	1.248	1.249
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

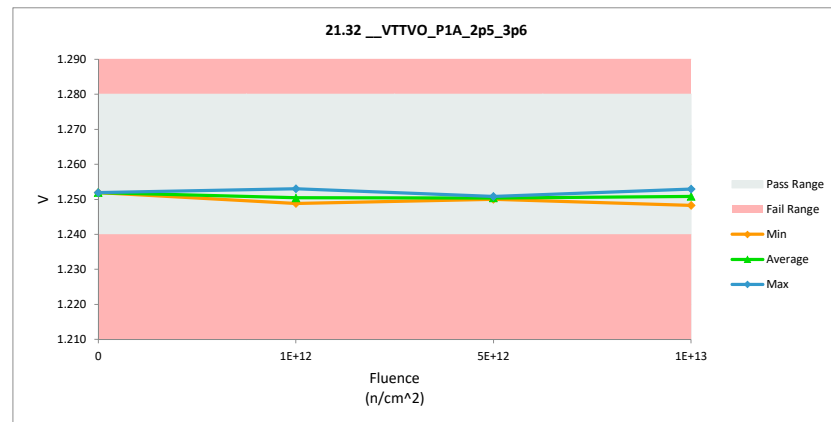
21.32_VTTVO_P1A_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.252	1.252	0.000
1E+12	2	1.249	1.249	0.000
1E+12	3	1.250	1.249	0.000
1E+12	4	1.253	1.253	0.000
5E+12	5	1.252	1.251	-0.001
5E+12	6	1.250	1.250	0.000
5E+12	7	1.251	1.250	-0.001
1E+13	8	1.253	1.253	0.000
1E+13	9	1.249	1.248	-0.001
1E+13	10	1.251	1.251	0.000
Max		1.253	1.253	0.000
Average		1.251	1.251	0.000
Min		1.249	1.248	-0.001
Std Dev		0.002	0.002	0.000



21.32_VTTVO_P1A_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

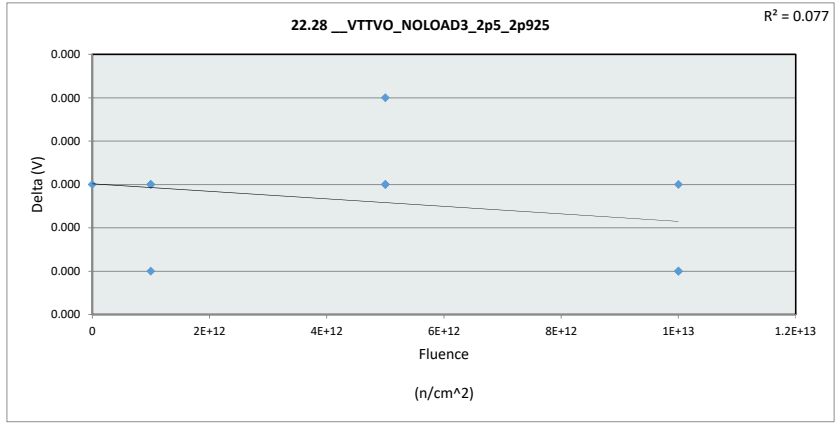
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.252	1.249	1.250	1.248
Average	1.252	1.250	1.250	1.251
Max	1.252	1.253	1.251	1.253
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

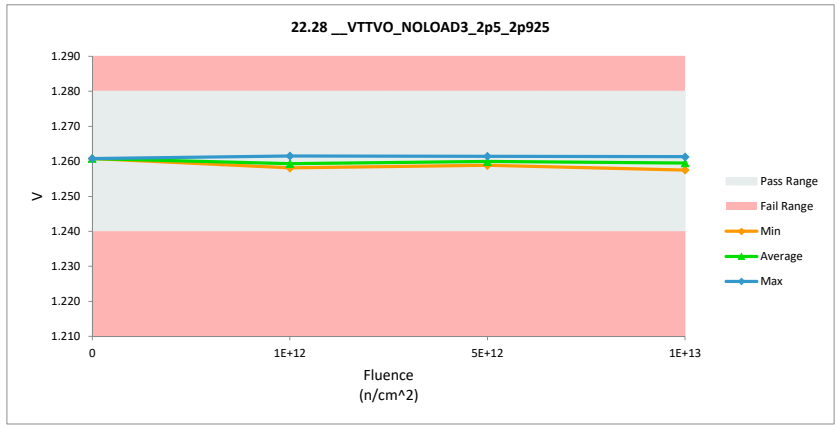
22.28_VTTVO_NOLOAD3_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.261	1.261	0.000
1E+12	2	1.258	1.258	0.000
1E+12	3	1.258	1.258	0.000
1E+12	4	1.262	1.262	0.000
5E+12	5	1.261	1.261	0.000
5E+12	6	1.259	1.259	0.000
5E+12	7	1.260	1.260	0.000
1E+13	8	1.261	1.261	0.000
1E+13	9	1.258	1.258	0.000
1E+13	10	1.260	1.260	0.000
Max		1.262	1.262	0.000
Average		1.260	1.260	0.000
Min		1.258	1.258	0.000
Std Dev		0.001	0.001	0.000



22.28_VTTVO_NOLOAD3_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

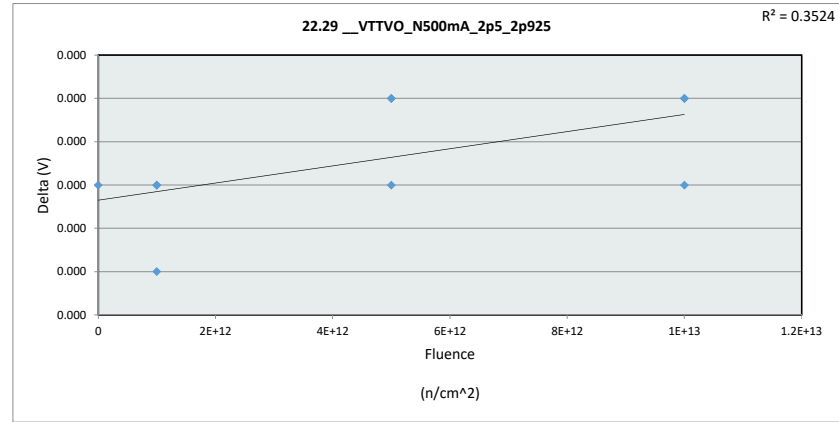
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.261	1.258	1.259	1.258
Average	1.261	1.259	1.260	1.260
Max	1.261	1.262	1.261	1.261
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

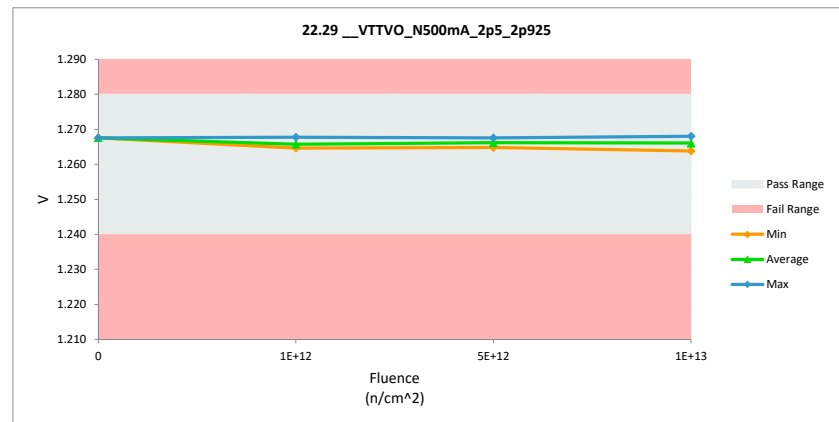
22.29_VTTVO_N500mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.268	1.268	0.000
1E+12	2	1.265	1.265	0.000
1E+12	3	1.265	1.265	0.000
1E+12	4	1.268	1.268	0.000
5E+12	5	1.268	1.268	0.000
5E+12	6	1.265	1.265	0.000
5E+12	7	1.266	1.266	0.000
1E+13	8	1.268	1.268	0.000
1E+13	9	1.264	1.264	0.000
1E+13	10	1.266	1.266	0.000
	Max	1.268	1.268	0.000
	Average	1.266	1.266	0.000
	Min	1.264	1.264	0.000
	Std Dev	0.002	0.002	0.000



22.29_VTTVO_N500mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

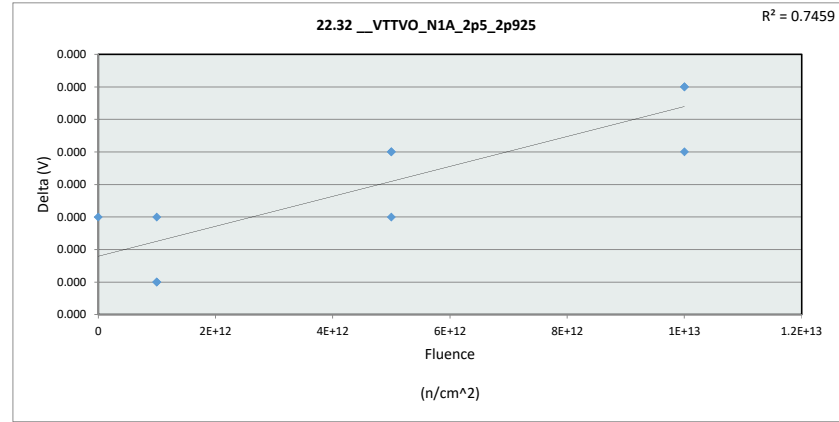
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.268	1.265	1.265	1.264
Average	1.268	1.266	1.266	1.266
Max	1.268	1.268	1.268	1.268
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

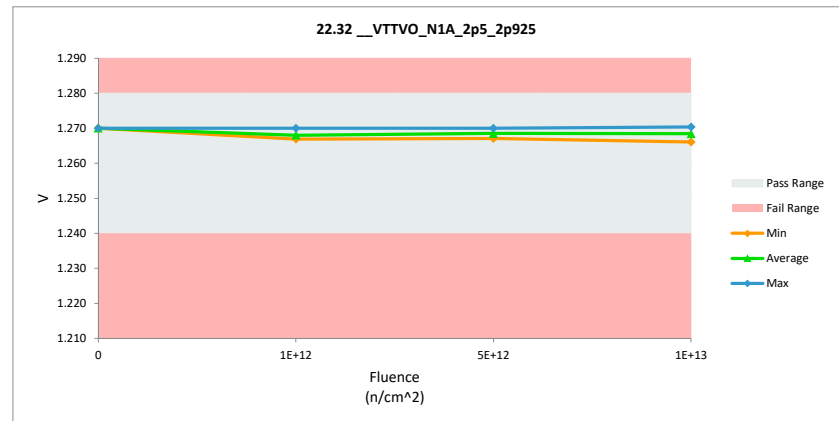
22.32_VTTVO_N1A_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.270	1.270	0.000
1E+12	2	1.267	1.267	0.000
1E+12	3	1.267	1.267	0.000
1E+12	4	1.270	1.270	0.000
5E+12	5	1.270	1.270	0.000
5E+12	6	1.267	1.267	0.000
5E+12	7	1.268	1.268	0.000
1E+13	8	1.270	1.270	0.000
1E+13	9	1.266	1.266	0.000
1E+13	10	1.268	1.269	0.000
Max		1.270	1.270	0.000
Average		1.268	1.268	0.000
Min		1.266	1.266	0.000
Std Dev		0.002	0.002	0.000



22.32_VTTVO_N1A_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

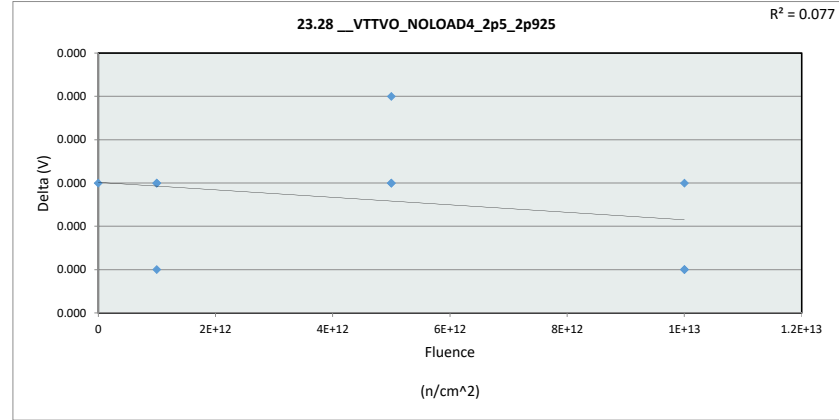
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.270	1.267	1.267	1.266
Average	1.270	1.268	1.269	1.268
Max	1.270	1.270	1.270	1.270
UL	1.280	1.280	1.280	1.280



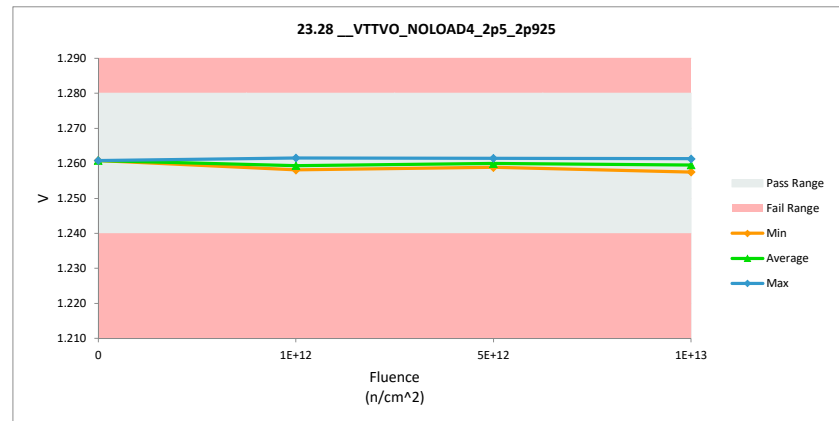
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

23.28_VTTVO_NOLOAD4_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.261	1.261	0.000
1E+12	2	1.258	1.258	0.000
1E+12	3	1.258	1.258	0.000
1E+12	4	1.262	1.262	0.000
5E+12	5	1.261	1.261	0.000
5E+12	6	1.259	1.259	0.000
5E+12	7	1.260	1.260	0.000
1E+13	8	1.261	1.261	0.000
1E+13	9	1.258	1.258	0.000
1E+13	10	1.260	1.260	0.000
	Max	1.262	1.262	0.000
	Average	1.260	1.260	0.000
	Min	1.258	1.258	0.000
	Std Dev	0.001	0.001	0.000



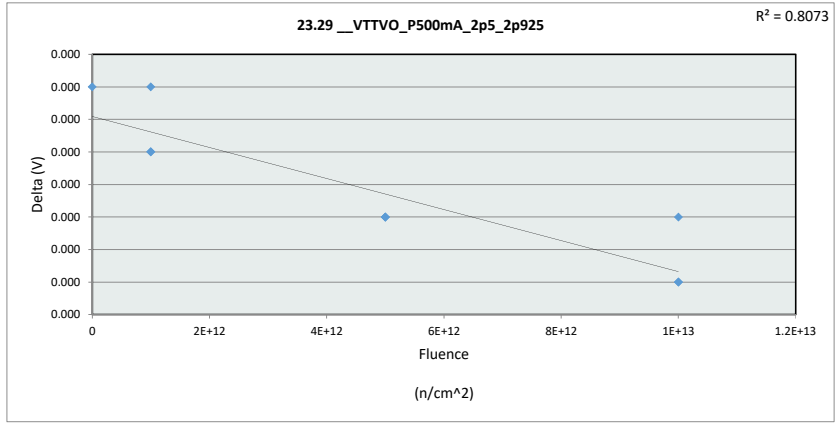
23.28_VTTVO_NOLOAD4_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	1.28	V		
Min Limit	1.24	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.261	1.258	1.259	1.258
Average	1.261	1.259	1.260	1.260
Max	1.261	1.262	1.261	1.261
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

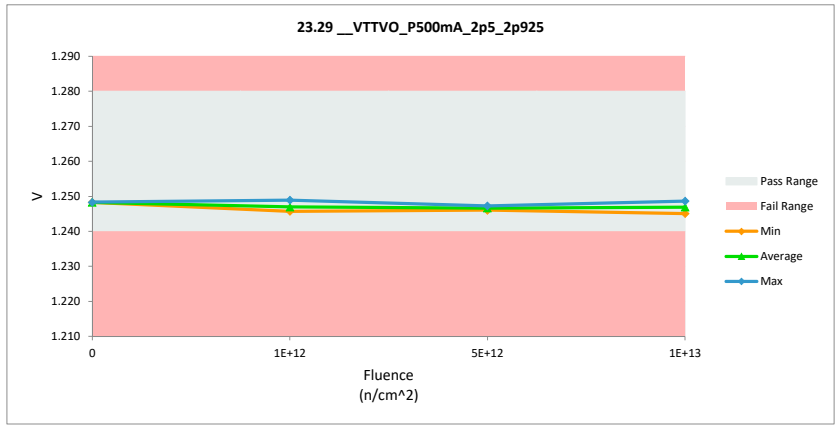
23.29_VTTVO_P500mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.248	1.248	0.000
1E+12	2	1.246	1.246	0.000
1E+12	3	1.246	1.246	0.000
1E+12	4	1.249	1.249	0.000
5E+12	5	1.247	1.247	0.000
5E+12	6	1.246	1.246	0.000
5E+12	7	1.247	1.247	0.000
1E+13	8	1.249	1.249	0.000
1E+13	9	1.245	1.245	0.000
1E+13	10	1.247	1.247	0.000
	Max	1.249	1.249	0.000
	Average	1.247	1.247	0.000
	Min	1.245	1.245	0.000
	Std Dev	0.001	0.001	0.000



23.29_VTTVO_P500mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

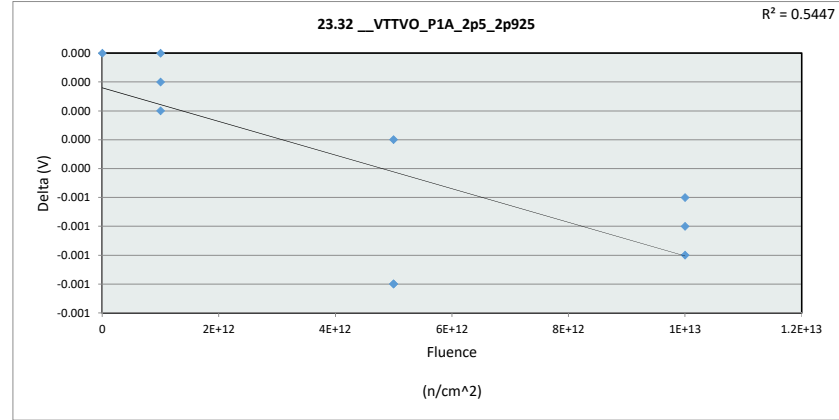
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.248	1.246	1.246	1.245
Average	1.248	1.247	1.247	1.247
Max	1.248	1.249	1.247	1.249
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

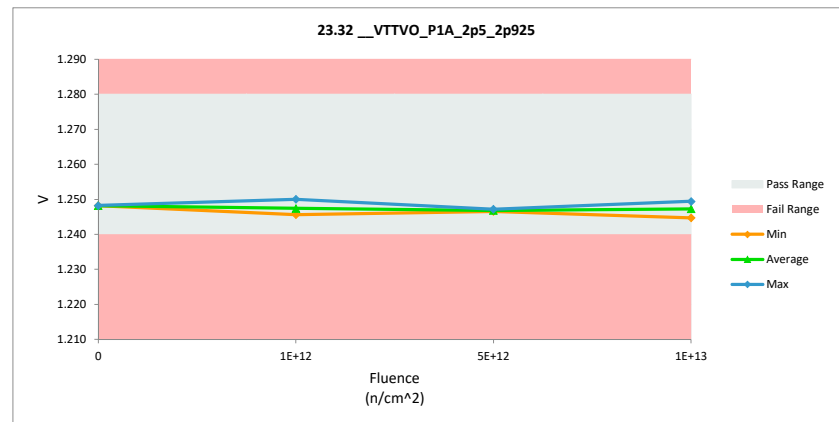
23.32_VTTVO_P1A_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.28
Min Limit	1.24

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.248	1.248	0.000
1E+12	2	1.246	1.246	0.000
1E+12	3	1.247	1.247	0.000
1E+12	4	1.250	1.250	0.000
5E+12	5	1.248	1.247	-0.001
5E+12	6	1.247	1.247	0.000
5E+12	7	1.247	1.247	-0.001
1E+13	8	1.250	1.249	-0.001
1E+13	9	1.245	1.245	-0.001
1E+13	10	1.248	1.248	-0.001
	Max	1.250	1.250	0.000
	Average	1.248	1.247	0.000
	Min	1.245	1.245	-0.001
	Std Dev	0.002	0.002	0.000



23.32_VTTVO_P1A_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.28
Min Limit	1.24

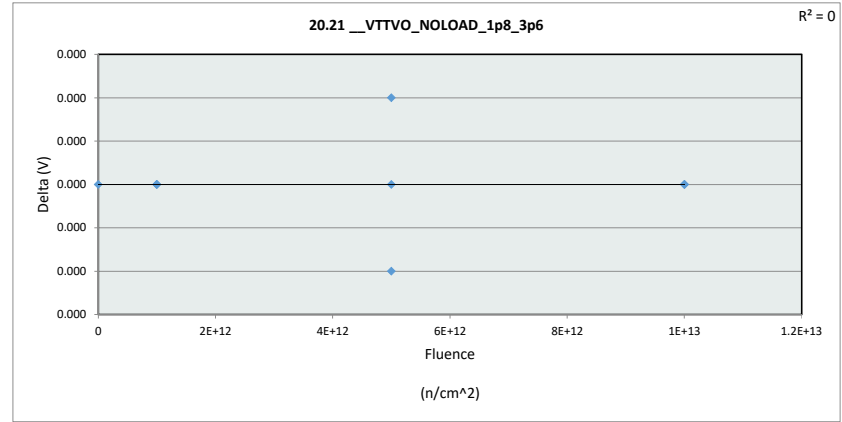
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.240	1.240	1.240	1.240
Min	1.248	1.246	1.247	1.245
Average	1.248	1.247	1.247	1.247
Max	1.248	1.250	1.247	1.249
UL	1.280	1.280	1.280	1.280



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

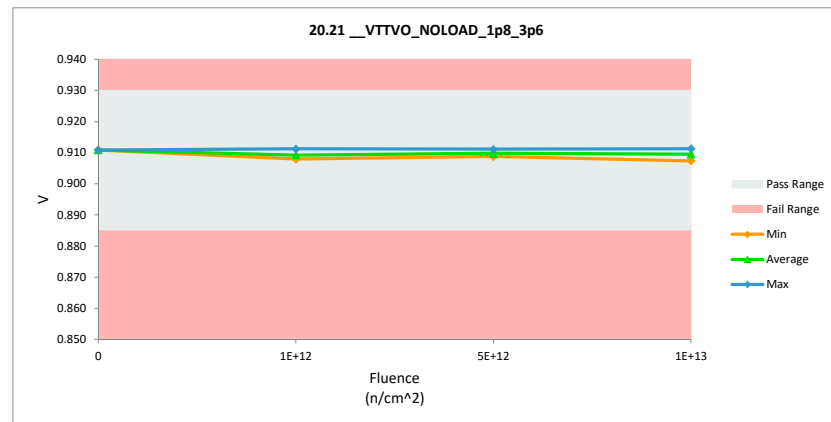
20.21_VTTVO_NOLOAD_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.911	0.911	0.000
1E+12	2	0.909	0.909	0.000
1E+12	3	0.908	0.908	0.000
1E+12	4	0.911	0.911	0.000
5E+12	5	0.911	0.911	0.000
5E+12	6	0.909	0.909	0.000
5E+12	7	0.909	0.909	0.000
1E+13	8	0.911	0.911	0.000
1E+13	9	0.907	0.907	0.000
1E+13	10	0.910	0.910	0.000
	Max	0.911	0.911	0.000
	Average	0.910	0.910	0.000
	Min	0.907	0.907	0.000
	Std Dev	0.001	0.001	0.000



20.21_VTTVO_NOLOAD_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

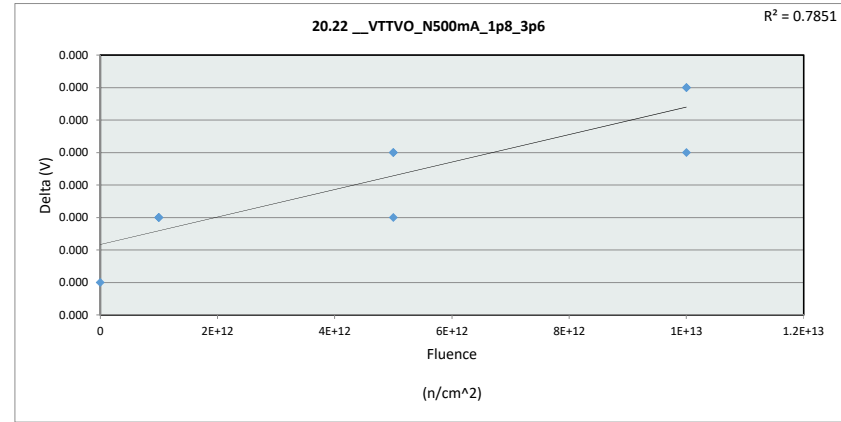
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.911	0.908	0.909	0.907
Average	0.911	0.909	0.910	0.909
Max	0.911	0.911	0.911	0.911
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

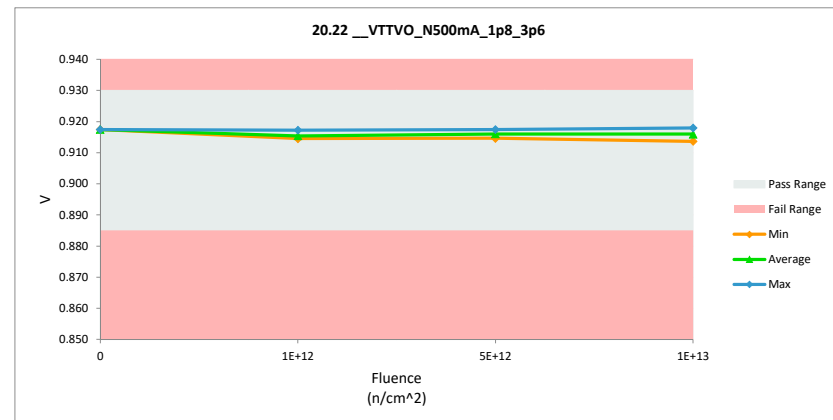
20.22_VTTVO_N500mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.93 0.93
Min Limit	0.885 0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.918	0.917	0.000
1E+12	2	0.914	0.914	0.000
1E+12	3	0.914	0.914	0.000
1E+12	4	0.917	0.917	0.000
5E+12	5	0.917	0.917	0.000
5E+12	6	0.914	0.915	0.000
5E+12	7	0.916	0.916	0.000
1E+13	8	0.918	0.918	0.000
1E+13	9	0.914	0.914	0.000
1E+13	10	0.916	0.916	0.000
Max		0.918	0.918	0.000
Average		0.916	0.916	0.000
Min		0.914	0.914	0.000
Std Dev		0.002	0.002	0.000



20.22_VTTVO_N500mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.93 V
Min Limit	0.885 V

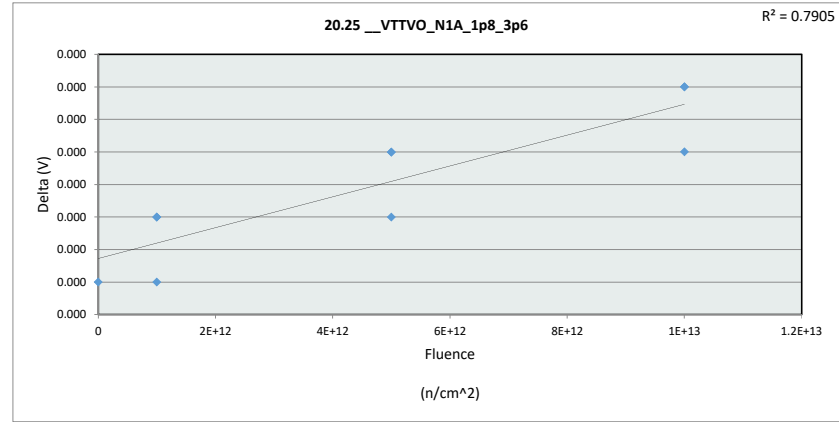
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.917	0.915	0.915	0.914
Average	0.917	0.915	0.916	0.916
Max	0.917	0.917	0.917	0.918
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

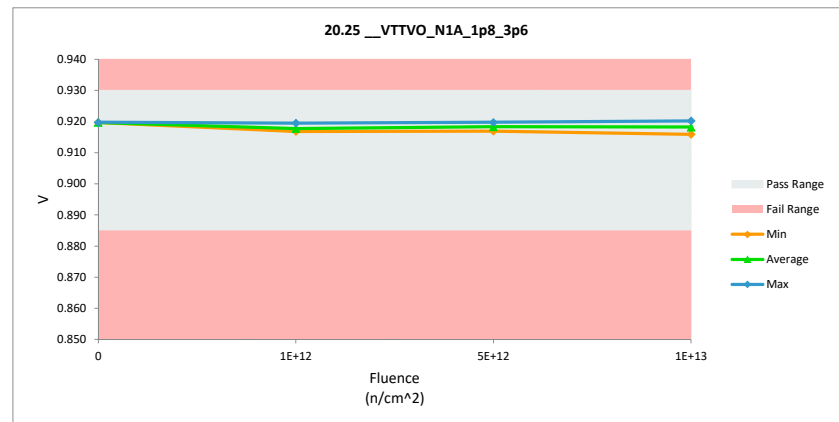
20.25_VTTVO_N1A_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.920	0.920	0.000
1E+12	2	0.917	0.917	0.000
1E+12	3	0.917	0.917	0.000
1E+12	4	0.919	0.919	0.000
5E+12	5	0.920	0.920	0.000
5E+12	6	0.917	0.917	0.000
5E+12	7	0.918	0.918	0.000
1E+13	8	0.920	0.920	0.000
1E+13	9	0.916	0.916	0.000
1E+13	10	0.918	0.919	0.000
	Max	0.920	0.920	0.000
	Average	0.918	0.918	0.000
	Min	0.916	0.916	0.000
	Std Dev	0.002	0.002	0.000



20.25_VTTVO_N1A_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

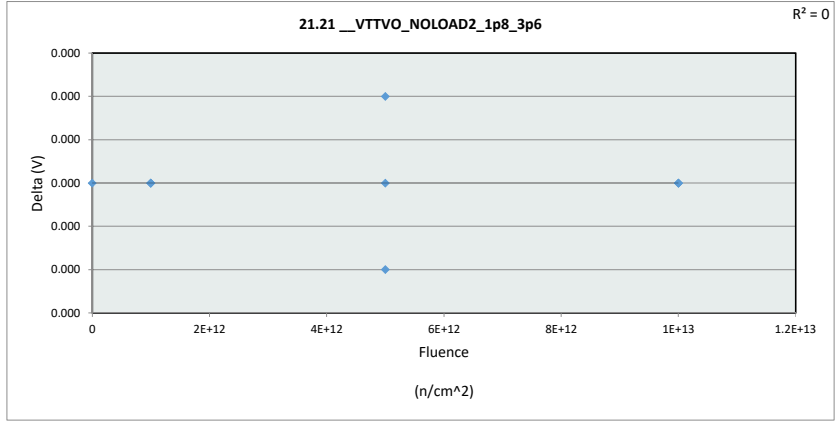
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.920	0.917	0.917	0.916
Average	0.920	0.918	0.918	0.918
Max	0.920	0.920	0.920	0.920
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

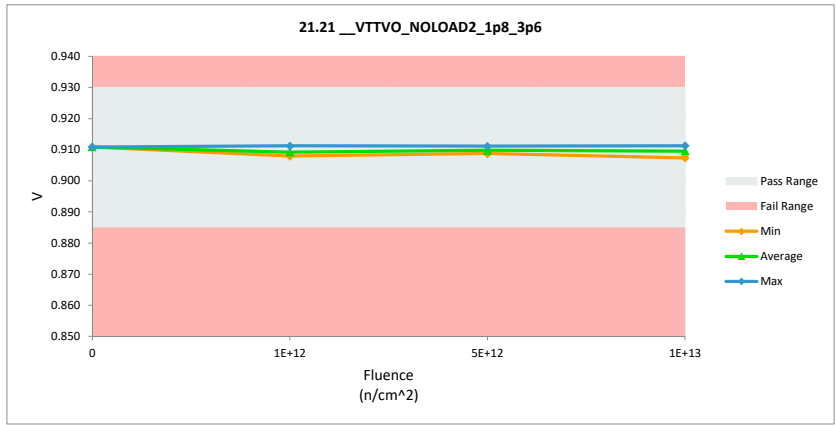
21.21_VTTVO_NOLOAD2_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.911	0.911	0.000
1E+12	2	0.909	0.909	0.000
1E+12	3	0.908	0.908	0.000
1E+12	4	0.911	0.911	0.000
5E+12	5	0.911	0.911	0.000
5E+12	6	0.909	0.909	0.000
5E+12	7	0.909	0.909	0.000
1E+13	8	0.911	0.911	0.000
1E+13	9	0.907	0.907	0.000
1E+13	10	0.910	0.910	0.000
Max		0.911	0.911	0.000
Average		0.910	0.910	0.000
Min		0.907	0.907	0.000
Std Dev		0.001	0.001	0.000



21.21_VTTVO_NOLOAD2_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

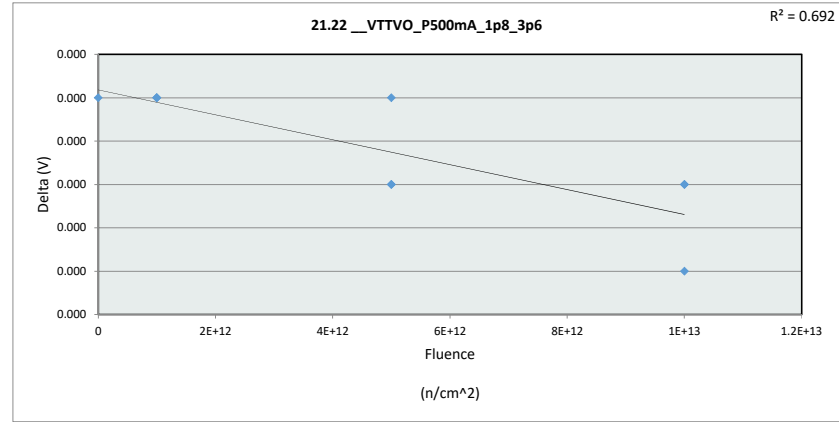
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.911	0.908	0.909	0.907
Average	0.911	0.909	0.910	0.909
Max	0.911	0.911	0.911	0.911
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

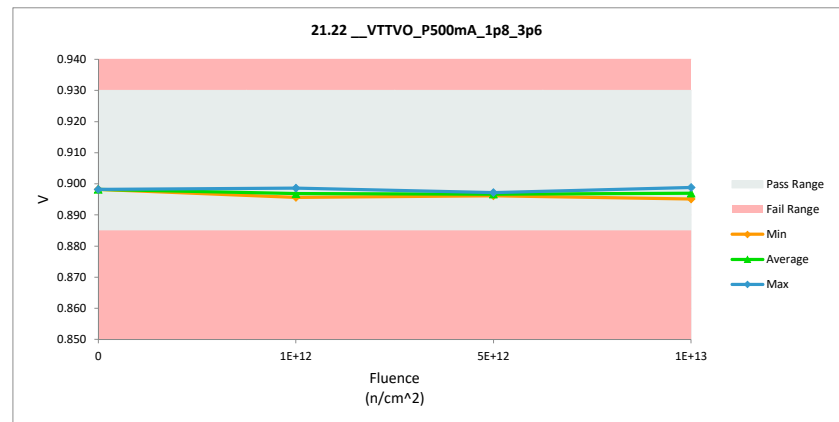
21.22_VTTVO_P500mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.898	0.898	0.000
1E+12	2	0.896	0.896	0.000
1E+12	3	0.896	0.896	0.000
1E+12	4	0.899	0.899	0.000
5E+12	5	0.897	0.897	0.000
5E+12	6	0.896	0.896	0.000
5E+12	7	0.897	0.897	0.000
1E+13	8	0.899	0.899	0.000
1E+13	9	0.895	0.895	0.000
1E+13	10	0.897	0.897	0.000
Max		0.899	0.899	0.000
Average		0.897	0.897	0.000
Min		0.895	0.895	0.000
Std Dev		0.001	0.001	0.000



21.22_VTTVO_P500mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

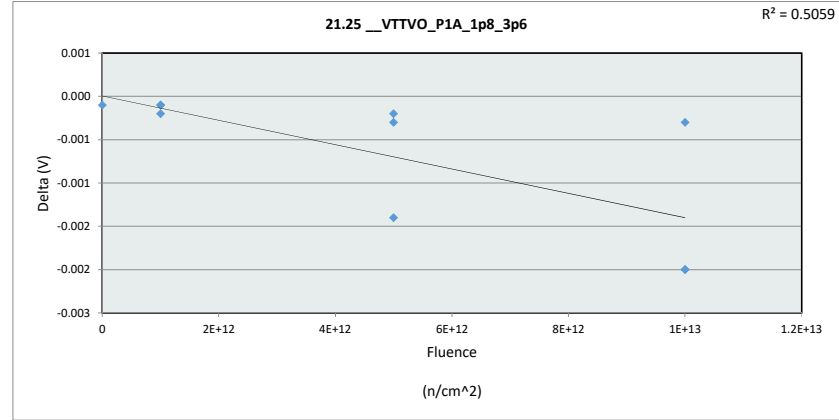
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.898	0.896	0.896	0.895
Average	0.898	0.897	0.897	0.897
Max	0.898	0.899	0.897	0.899
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

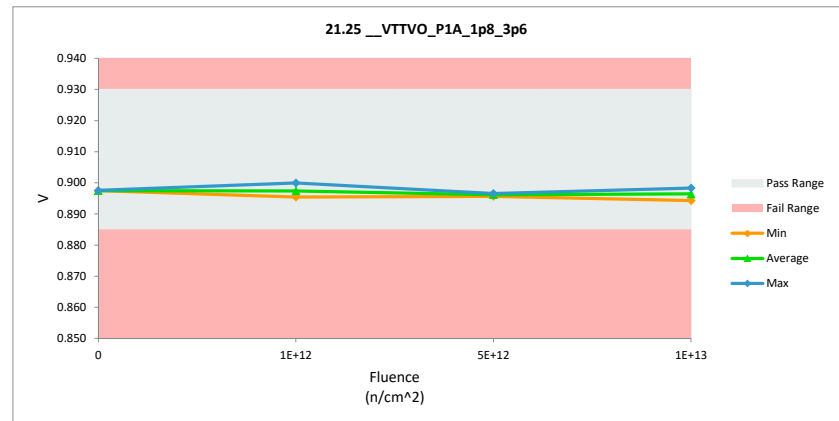
21.25_VTTVO_P1A_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.898	0.897	0.000
1E+12	2	0.896	0.895	0.000
1E+12	3	0.897	0.897	0.000
1E+12	4	0.900	0.900	0.000
5E+12	5	0.897	0.897	0.000
5E+12	6	0.897	0.896	-0.001
5E+12	7	0.896	0.896	0.000
1E+13	8	0.900	0.898	-0.002
1E+13	9	0.895	0.894	0.000
1E+13	10	0.899	0.896	-0.002
	Max	0.900	0.900	0.000
	Average	0.897	0.897	-0.001
	Min	0.895	0.894	-0.002
	Std Dev	0.002	0.002	0.001



21.25_VTTVO_P1A_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

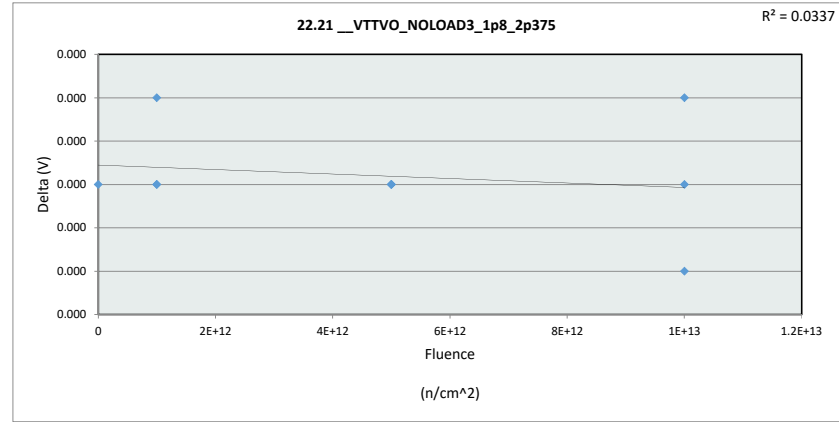
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.898	0.895	0.896	0.894
Average	0.898	0.897	0.896	0.896
Max	0.898	0.900	0.897	0.898
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

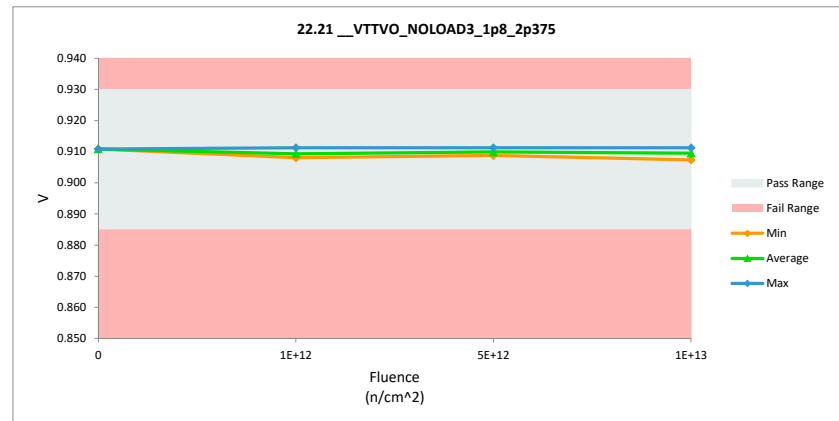
22.21_VTTVO_NOLOAD3_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.911	0.911	0.000
1E+12	2	0.909	0.909	0.000
1E+12	3	0.908	0.908	0.000
1E+12	4	0.911	0.911	0.000
5E+12	5	0.911	0.911	0.000
5E+12	6	0.909	0.909	0.000
5E+12	7	0.910	0.910	0.000
1E+13	8	0.911	0.911	0.000
1E+13	9	0.908	0.907	0.000
1E+13	10	0.910	0.910	0.000
	Max	0.911	0.911	0.000
	Average	0.910	0.910	0.000
	Min	0.908	0.907	0.000
	Std Dev	0.001	0.001	0.000



22.21_VTTVO_NOLOAD3_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

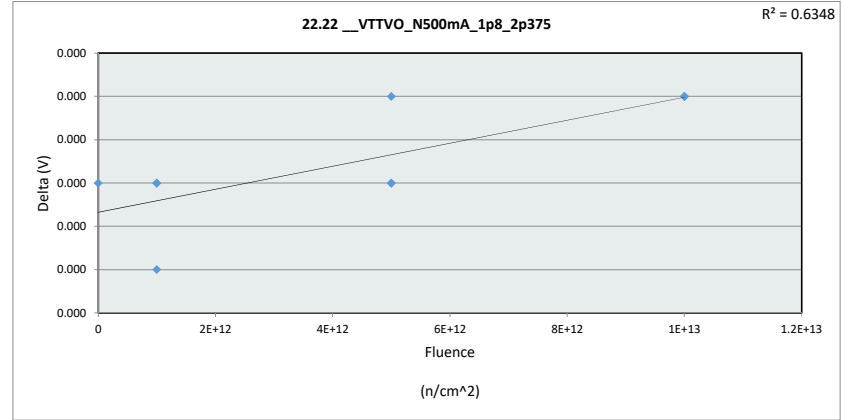
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.911	0.908	0.909	0.907
Average	0.911	0.909	0.910	0.910
Max	0.911	0.911	0.911	0.911
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

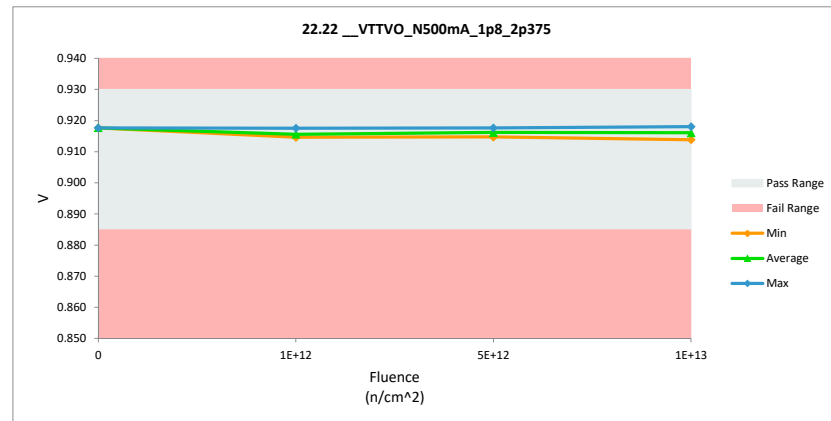
22.22_VTTVO_N500mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.918	0.918	0.000
1E+12	2	0.915	0.915	0.000
1E+12	3	0.915	0.915	0.000
1E+12	4	0.918	0.918	0.000
5E+12	5	0.918	0.918	0.000
5E+12	6	0.915	0.915	0.000
5E+12	7	0.916	0.916	0.000
1E+13	8	0.918	0.918	0.000
1E+13	9	0.914	0.914	0.000
1E+13	10	0.916	0.916	0.000
	Max	0.918	0.918	0.000
	Average	0.916	0.916	0.000
	Min	0.914	0.914	0.000
	Std Dev	0.002	0.002	0.000



22.22_VTTVO_N500mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

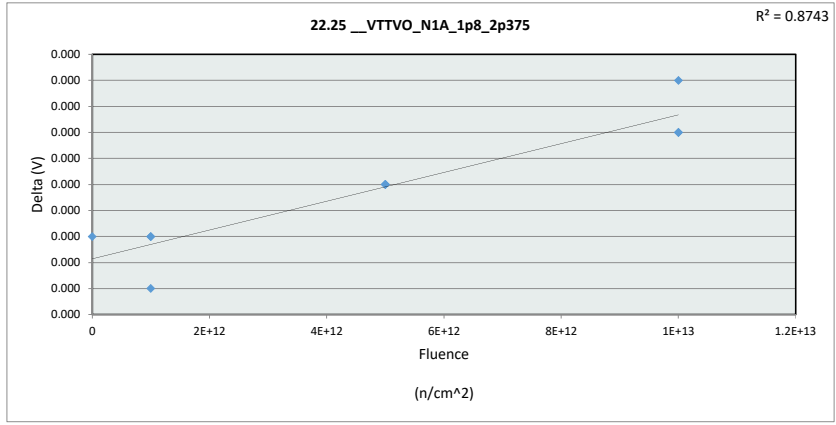
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.918	0.915	0.915	0.914
Average	0.918	0.916	0.916	0.916
Max	0.918	0.918	0.918	0.918
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

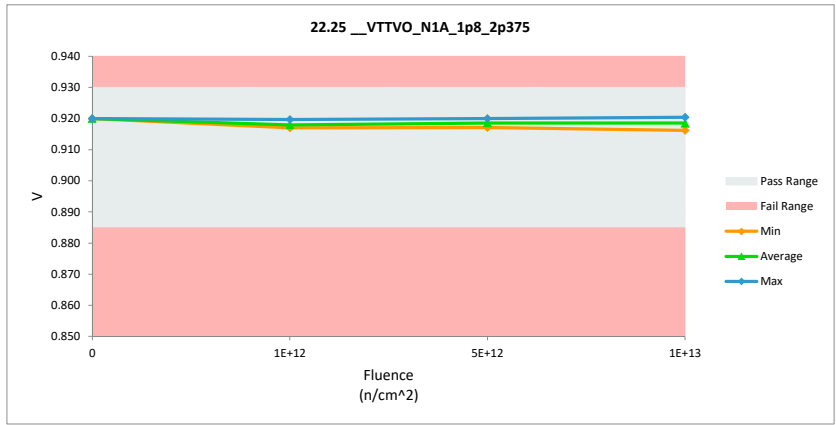
22.25_VTTVO_N1A_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.920	0.920	0.000
1E+12	2	0.917	0.917	0.000
1E+12	3	0.917	0.917	0.000
1E+12	4	0.920	0.920	0.000
5E+12	5	0.920	0.920	0.000
5E+12	6	0.917	0.917	0.000
5E+12	7	0.918	0.919	0.000
1E+13	8	0.920	0.920	0.000
1E+13	9	0.916	0.916	0.000
1E+13	10	0.919	0.919	0.000
Max		0.920	0.920	0.000
Average		0.918	0.918	0.000
Min		0.916	0.916	0.000
Std Dev		0.002	0.002	0.000



22.25_VTTVO_N1A_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

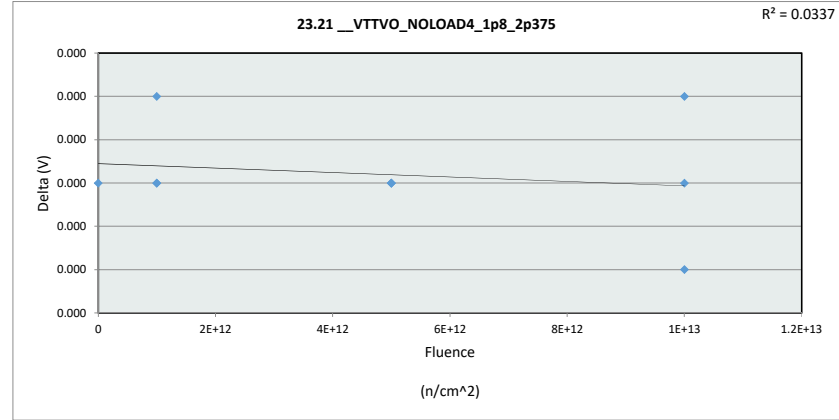
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.920	0.917	0.917	0.916
Average	0.920	0.918	0.919	0.918
Max	0.920	0.920	0.920	0.920
UL	0.930	0.930	0.930	0.930



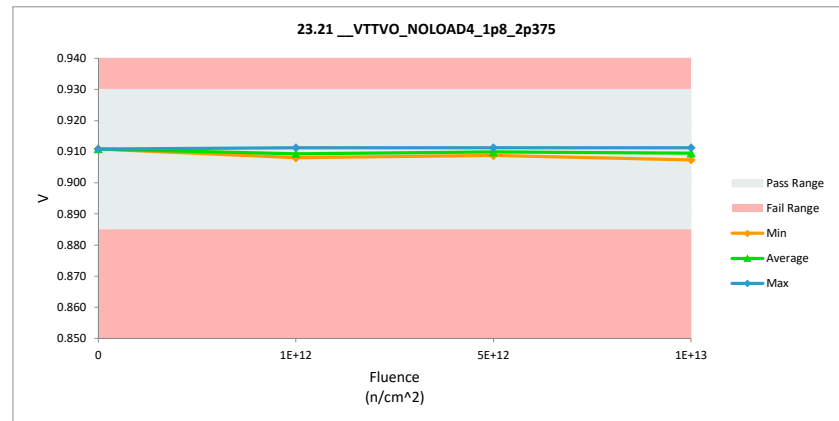
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

23.21_VTTVO_NOLOAD4_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.911	0.911	0.000
1E+12	2	0.909	0.909	0.000
1E+12	3	0.908	0.908	0.000
1E+12	4	0.911	0.911	0.000
5E+12	5	0.911	0.911	0.000
5E+12	6	0.909	0.909	0.000
5E+12	7	0.910	0.910	0.000
1E+13	8	0.911	0.911	0.000
1E+13	9	0.908	0.907	0.000
1E+13	10	0.910	0.910	0.000
	Max	0.911	0.911	0.000
	Average	0.910	0.910	0.000
	Min	0.908	0.907	0.000
	Std Dev	0.001	0.001	0.000



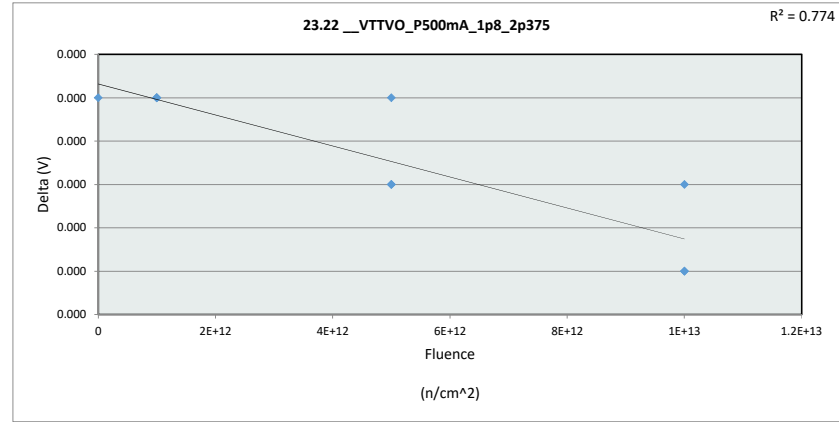
23.21_VTTVO_NOLOAD4_1p8_2p375				
Test Site				
Tester				
Test Number				
Max Limit	0.93		V	
Min Limit	0.885		V	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.911	0.908	0.909	0.907
Average	0.911	0.909	0.910	0.910
Max	0.911	0.911	0.911	0.911
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

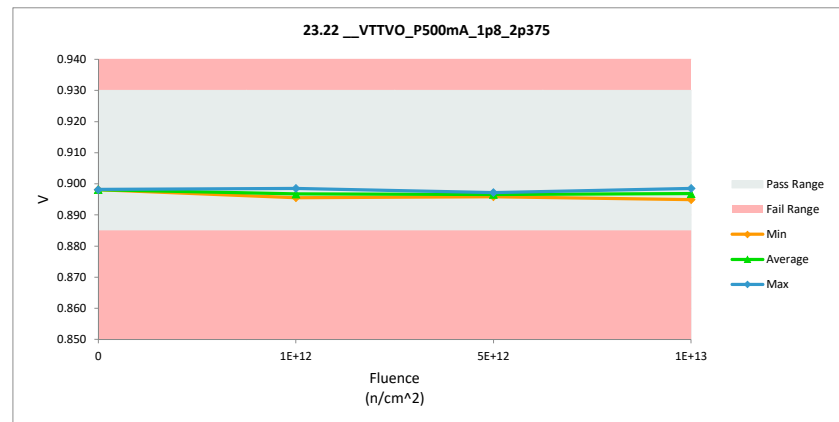
23.22_VTTVO_P500mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.898	0.898	0.000
1E+12	2	0.896	0.896	0.000
1E+12	3	0.896	0.896	0.000
1E+12	4	0.899	0.899	0.000
5E+12	5	0.897	0.897	0.000
5E+12	6	0.896	0.896	0.000
5E+12	7	0.897	0.897	0.000
1E+13	8	0.899	0.899	0.000
1E+13	9	0.895	0.895	0.000
1E+13	10	0.897	0.897	0.000
Max		0.899	0.899	0.000
Average		0.897	0.897	0.000
Min		0.895	0.895	0.000
Std Dev		0.001	0.001	0.000



23.22_VTTVO_P500mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

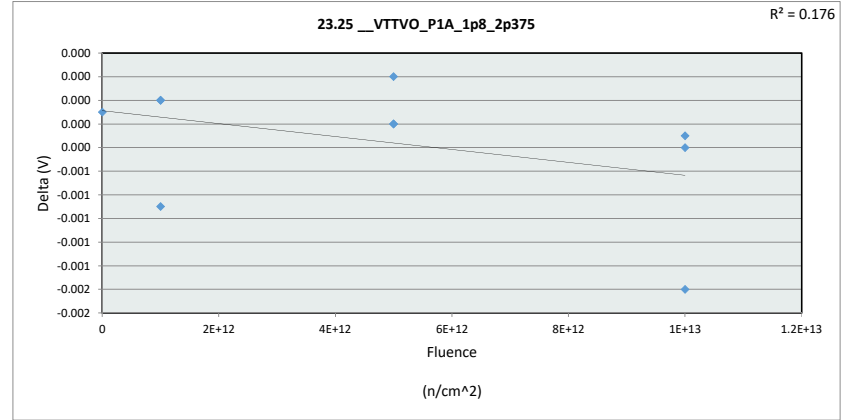
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.898	0.896	0.896	0.895
Average	0.898	0.897	0.897	0.897
Max	0.898	0.899	0.897	0.899
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

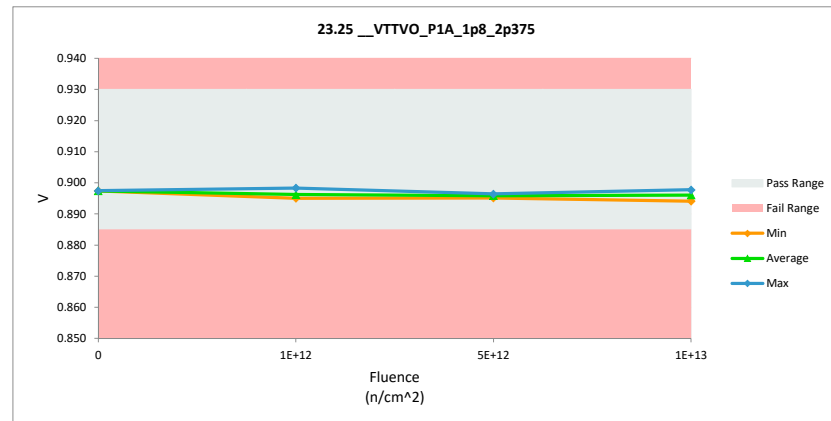
23.25_VTTVO_P1A_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.93
Min Limit	0.885

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.897	0.897	0.000
1E+12	2	0.895	0.895	0.000
1E+12	3	0.895	0.895	0.000
1E+12	4	0.899	0.898	-0.001
5E+12	5	0.897	0.896	0.000
5E+12	6	0.895	0.895	0.000
5E+12	7	0.896	0.896	0.000
1E+13	8	0.899	0.898	-0.002
1E+13	9	0.894	0.894	0.000
1E+13	10	0.897	0.896	0.000
Max		0.899	0.898	0.000
Average		0.896	0.896	0.000
Min		0.894	0.894	-0.002
Std Dev		0.002	0.001	0.001



23.25_VTTVO_P1A_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.93
Min Limit	0.885

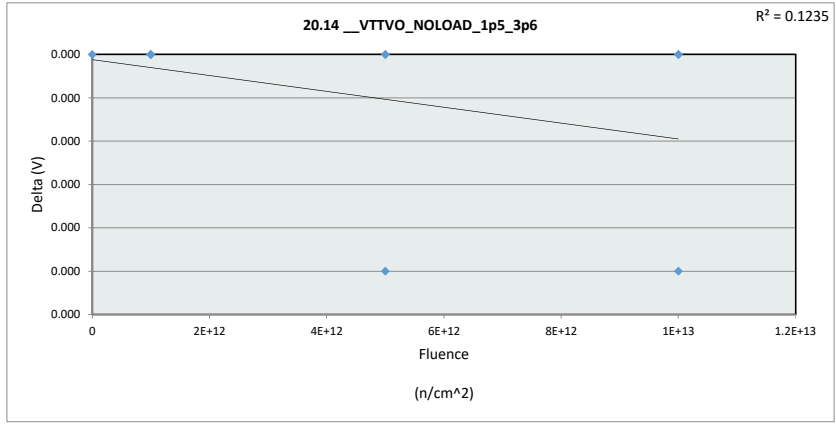
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.885	0.885	0.885	0.885
Min	0.897	0.895	0.895	0.894
Average	0.897	0.896	0.896	0.896
Max	0.897	0.896	0.896	0.898
UL	0.930	0.930	0.930	0.930



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

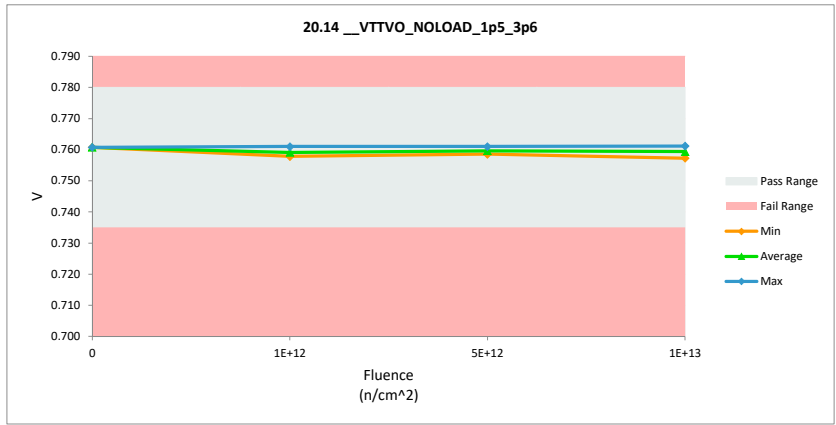
20.14_VTTVO_NOLOAD_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.78 0.78
Min Limit	0.735 0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.761	0.761	0.000
1E+12	2	0.758	0.758	0.000
1E+12	3	0.758	0.758	0.000
1E+12	4	0.761	0.761	0.000
5E+12	5	0.761	0.761	0.000
5E+12	6	0.758	0.758	0.000
5E+12	7	0.759	0.759	0.000
1E+13	8	0.761	0.761	0.000
1E+13	9	0.757	0.757	0.000
1E+13	10	0.760	0.760	0.000
Max		0.761	0.761	0.000
Average		0.759	0.759	0.000
Min		0.757	0.757	0.000
Std Dev		0.001	0.001	0.000



20.14_VTTVO_NOLOAD_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.78 V
Min Limit	0.735 V

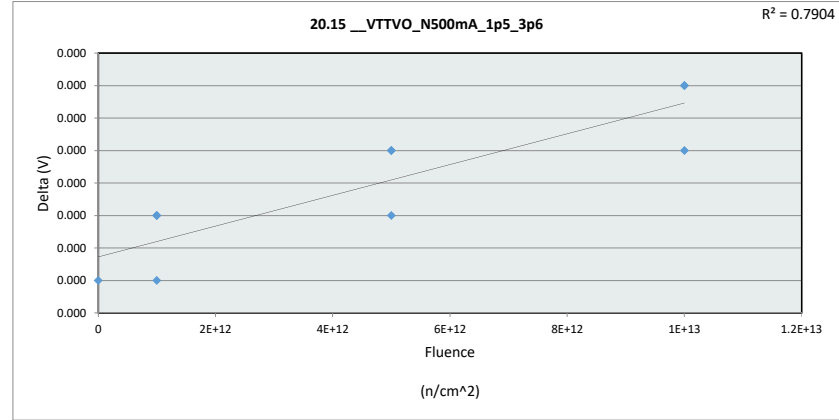
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.761	0.758	0.759	0.757
Average	0.761	0.759	0.760	0.759
Max	0.761	0.761	0.761	0.761
UL	0.780	0.780	0.780	0.780



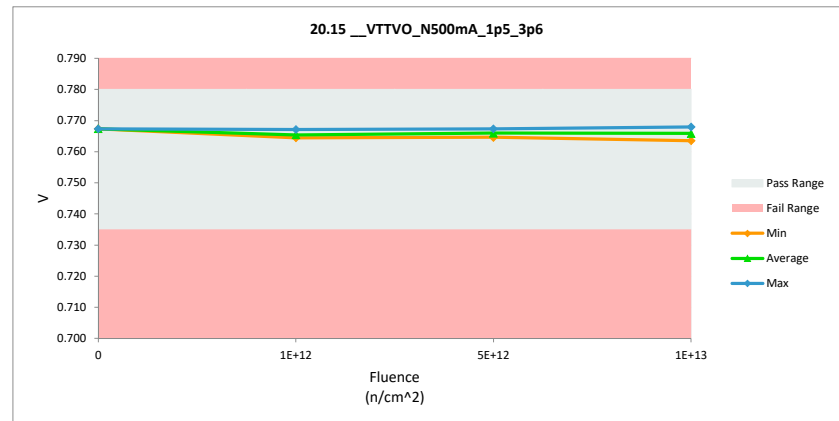
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

20.15_VTTVO_N500mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.78 0.78
Min Limit	0.735 0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.767	0.767	0.000
1E+12	2	0.765	0.765	0.000
1E+12	3	0.765	0.764	0.000
1E+12	4	0.767	0.767	0.000
5E+12	5	0.767	0.767	0.000
5E+12	6	0.765	0.765	0.000
5E+12	7	0.766	0.766	0.000
1E+13	8	0.768	0.768	0.000
1E+13	9	0.763	0.763	0.000
1E+13	10	0.766	0.766	0.000
	Max	0.768	0.768	0.000
	Average	0.766	0.766	0.000
	Min	0.763	0.763	0.000
	Std Dev	0.002	0.002	0.000



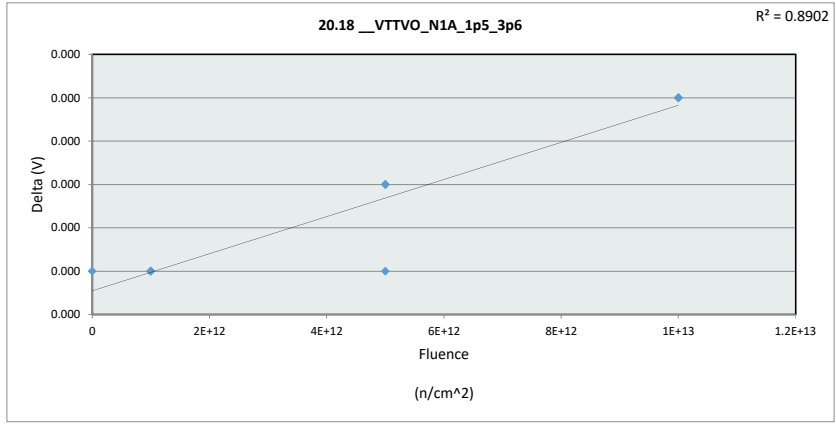
20.15_VTTVO_N500mA_1p5_3p6				
Test Site				
Tester				
Test Number				
Max Limit	0.78	V		
Min Limit	0.735	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.767	0.764	0.765	0.764
Average	0.767	0.765	0.766	0.766
Max	0.767	0.767	0.767	0.768
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

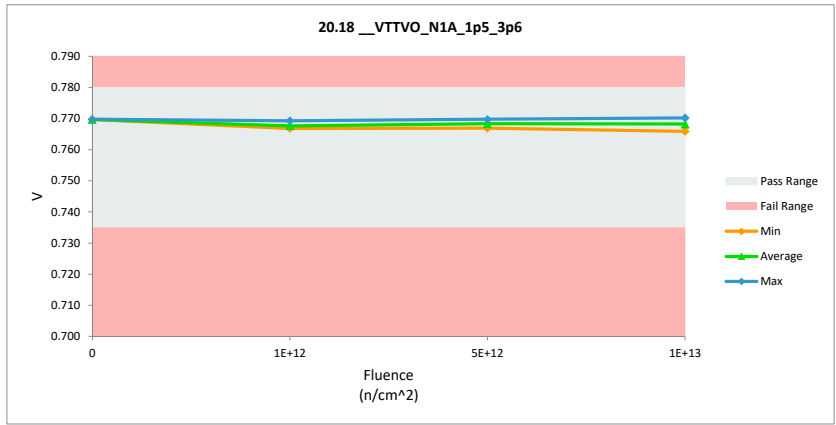
20.18_VTTVO_N1A_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.770	0.770	0.000
1E+12	2	0.767	0.767	0.000
1E+12	3	0.767	0.767	0.000
1E+12	4	0.769	0.769	0.000
5E+12	5	0.770	0.770	0.000
5E+12	6	0.767	0.767	0.000
5E+12	7	0.768	0.768	0.000
1E+13	8	0.770	0.770	0.000
1E+13	9	0.766	0.766	0.000
1E+13	10	0.768	0.768	0.000
	Max	0.770	0.770	0.000
	Average	0.768	0.768	0.000
	Min	0.766	0.766	0.000
	Std Dev	0.002	0.002	0.000



20.18_VTTVO_N1A_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

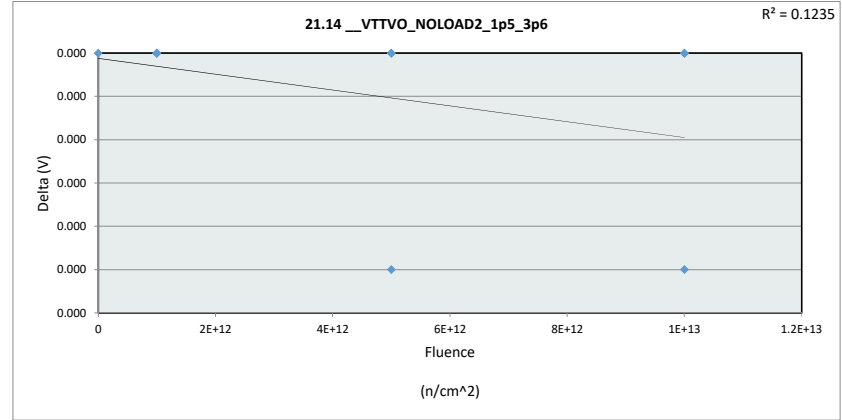
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.770	0.767	0.767	0.766
Average	0.770	0.768	0.768	0.768
Max	0.770	0.769	0.770	0.770
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

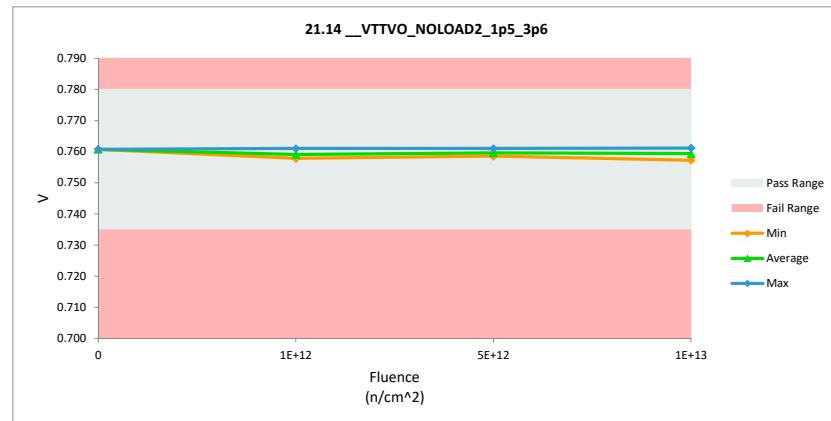
21.14_VTTVO_NOLOAD2_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.78 0.78
Min Limit	0.735 0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.761	0.761	0.000
1E+12	2	0.758	0.758	0.000
1E+12	3	0.758	0.758	0.000
1E+12	4	0.761	0.761	0.000
5E+12	5	0.761	0.761	0.000
5E+12	6	0.758	0.758	0.000
5E+12	7	0.759	0.759	0.000
1E+13	8	0.761	0.761	0.000
1E+13	9	0.757	0.757	0.000
1E+13	10	0.760	0.760	0.000
	Max	0.761	0.761	0.000
	Average	0.759	0.759	0.000
	Min	0.757	0.757	0.000
	Std Dev	0.001	0.001	0.000



21.14_VTTVO_NOLOAD2_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.78 V
Min Limit	0.735 V

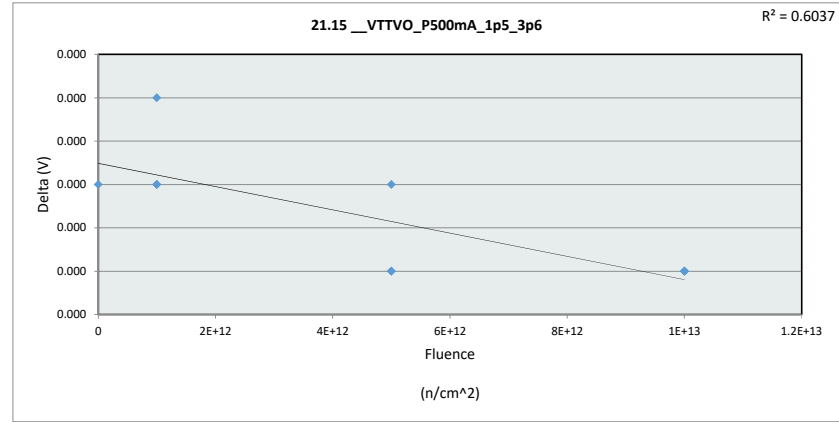
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.761	0.758	0.759	0.757
Average	0.761	0.759	0.760	0.759
Max	0.761	0.761	0.761	0.761
UL	0.780	0.780	0.780	0.780



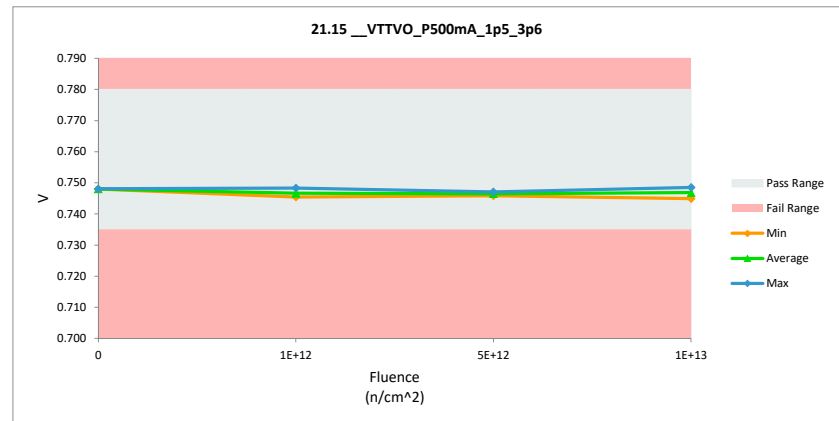
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

21.15_VTTVO_P500mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.78 0.78
Min Limit	0.735 0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.748	0.748	0.000
1E+12	2	0.746	0.746	0.000
1E+12	3	0.745	0.745	0.000
1E+12	4	0.748	0.748	0.000
5E+12	5	0.747	0.747	0.000
5E+12	6	0.746	0.746	0.000
5E+12	7	0.747	0.747	0.000
1E+13	8	0.749	0.748	0.000
1E+13	9	0.745	0.745	0.000
1E+13	10	0.747	0.747	0.000
	Max	0.749	0.748	0.000
	Average	0.747	0.747	0.000
	Min	0.745	0.745	0.000
	Std Dev	0.001	0.001	0.000



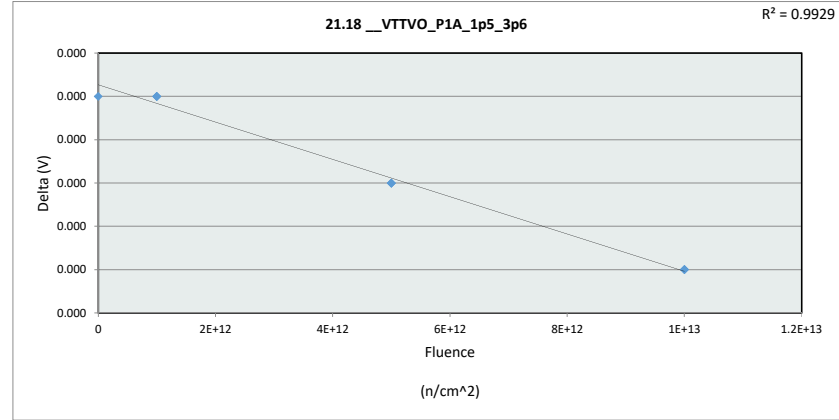
21.15_VTTVO_P500mA_1p5_3p6				
Test Site				
Tester				
Test Number				
Max Limit	0.78	V		
Min Limit	0.735	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.748	0.745	0.746	0.745
Average	0.748	0.747	0.747	0.747
Max	0.748	0.748	0.747	0.749
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

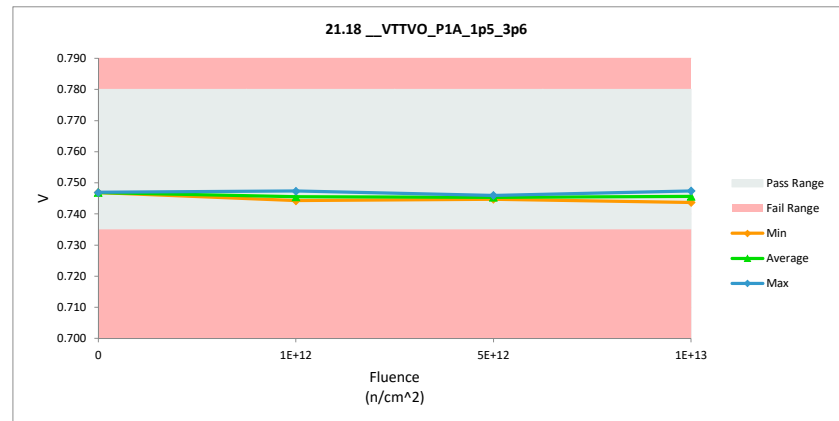
21.18_VTTVO_P1A_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.747	0.747	0.000
1E+12	2	0.745	0.745	0.000
1E+12	3	0.744	0.744	0.000
1E+12	4	0.747	0.747	0.000
5E+12	5	0.746	0.746	0.000
5E+12	6	0.745	0.745	0.000
5E+12	7	0.746	0.745	0.000
1E+13	8	0.748	0.747	0.000
1E+13	9	0.744	0.744	0.000
1E+13	10	0.746	0.746	0.000
	Max	0.748	0.747	0.000
	Average	0.746	0.746	0.000
	Min	0.744	0.744	0.000
	Std Dev	0.001	0.001	0.000



21.18_VTTVO_P1A_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

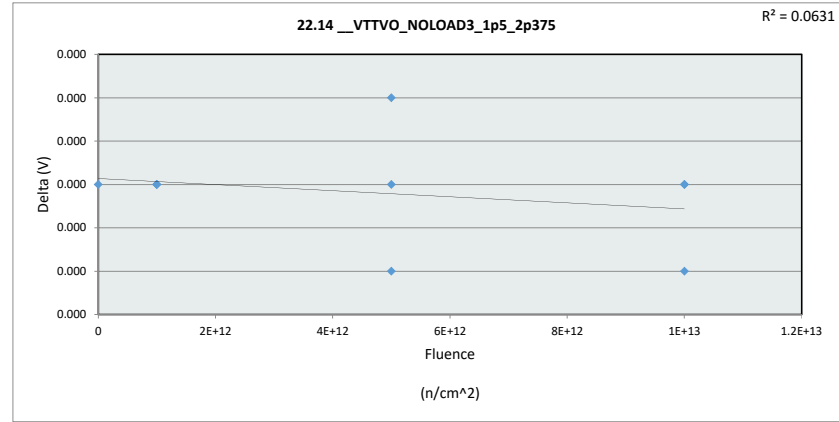
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.747	0.744	0.745	0.744
Average	0.747	0.745	0.745	0.746
Max	0.747	0.747	0.746	0.747
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

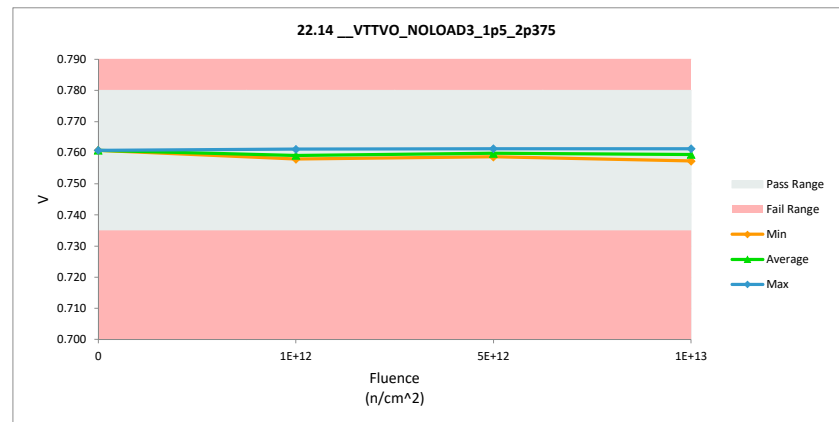
22.14_VTTVO_NOLOAD3_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.761	0.761	0.000
1E+12	2	0.758	0.758	0.000
1E+12	3	0.758	0.758	0.000
1E+12	4	0.761	0.761	0.000
5E+12	5	0.761	0.761	0.000
5E+12	6	0.758	0.759	0.000
5E+12	7	0.759	0.759	0.000
1E+13	8	0.761	0.761	0.000
1E+13	9	0.757	0.757	0.000
1E+13	10	0.760	0.760	0.000
	Max	0.761	0.761	0.000
	Average	0.760	0.760	0.000
	Min	0.757	0.757	0.000
	Std Dev	0.001	0.001	0.000



22.14_VTTVO_NOLOAD3_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

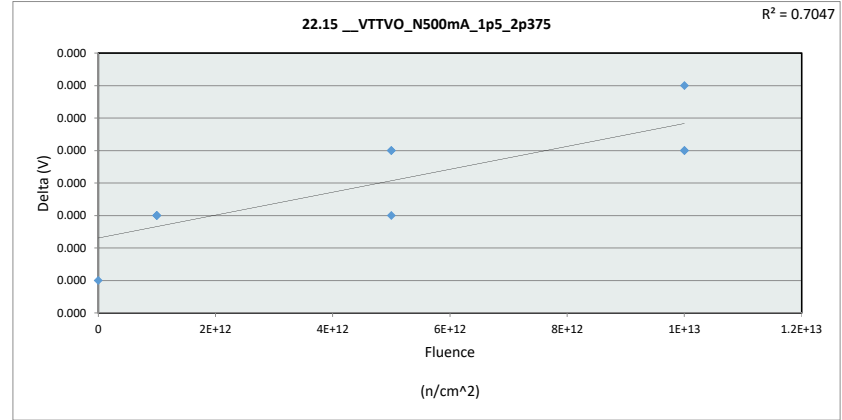
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.761	0.758	0.759	0.757
Average	0.761	0.759	0.760	0.759
Max	0.761	0.761	0.761	0.761
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

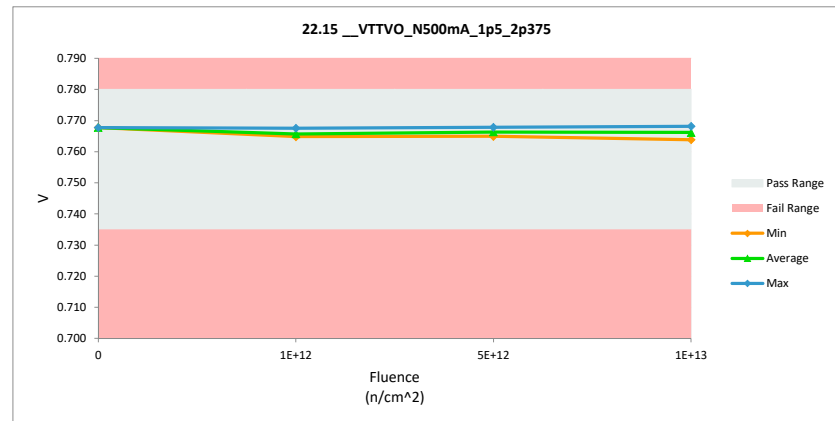
22.15_VTTVO_N500mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.78 0.78
Min Limit	0.735 0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.768	0.768	0.000
1E+12	2	0.765	0.765	0.000
1E+12	3	0.765	0.765	0.000
1E+12	4	0.767	0.767	0.000
5E+12	5	0.768	0.768	0.000
5E+12	6	0.765	0.765	0.000
5E+12	7	0.766	0.766	0.000
1E+13	8	0.768	0.768	0.000
1E+13	9	0.764	0.764	0.000
1E+13	10	0.766	0.766	0.000
Max		0.768	0.768	0.000
Average		0.766	0.766	0.000
Min		0.764	0.764	0.000
Std Dev		0.002	0.002	0.000



22.15_VTTVO_N500mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.78 V
Min Limit	0.735 V

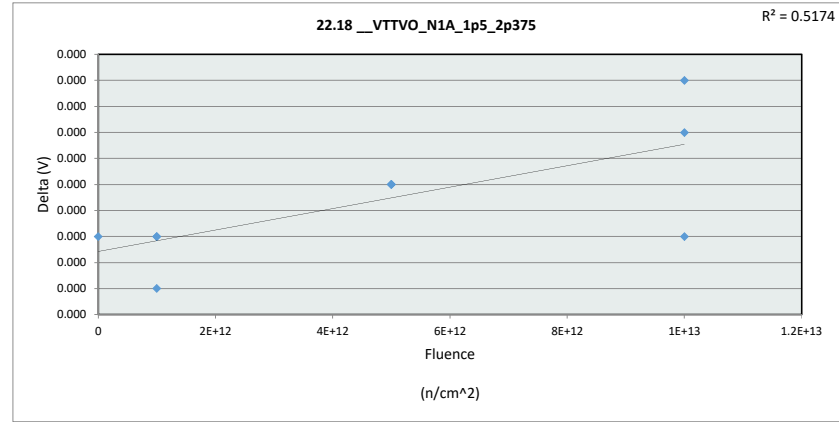
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.768	0.765	0.765	0.764
Average	0.768	0.766	0.766	0.766
Max	0.768	0.768	0.768	0.768
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

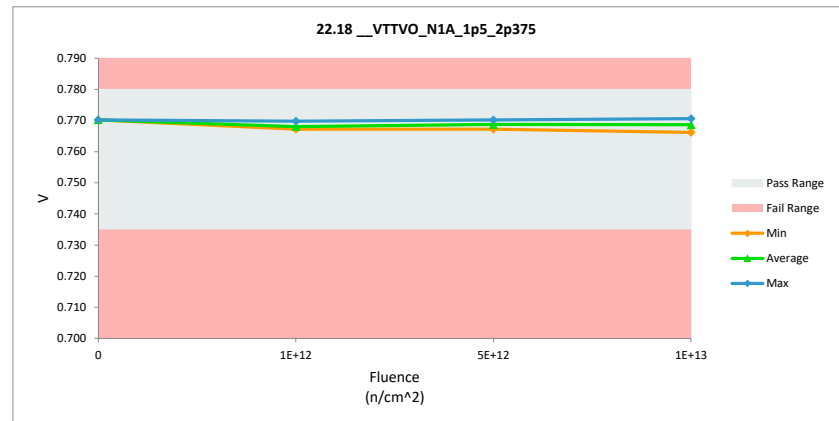
22.18_VTTVO_N1A_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.770	0.770	0.000
1E+12	2	0.767	0.767	0.000
1E+12	3	0.767	0.767	0.000
1E+12	4	0.770	0.770	0.000
5E+12	5	0.770	0.770	0.000
5E+12	6	0.767	0.767	0.000
5E+12	7	0.768	0.769	0.000
1E+13	8	0.770	0.771	0.000
1E+13	9	0.766	0.766	0.000
1E+13	10	0.769	0.769	0.000
Max		0.770	0.771	0.000
Average		0.769	0.769	0.000
Min		0.766	0.766	0.000
Std Dev		0.002	0.002	0.000



22.18_VTTVO_N1A_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

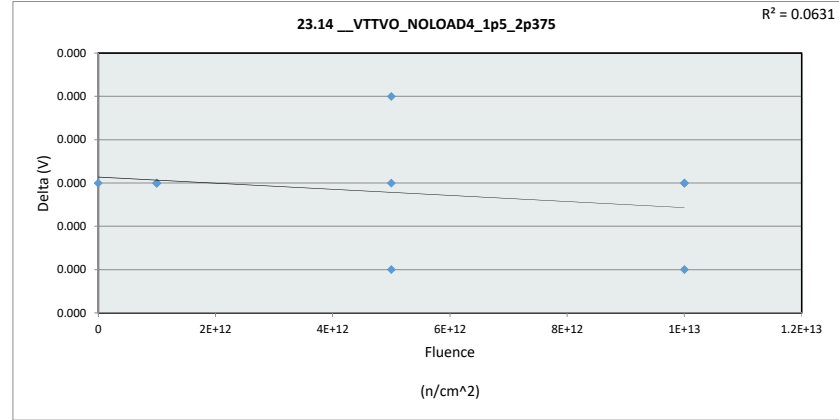
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.770	0.767	0.767	0.766
Average	0.770	0.768	0.769	0.769
Max	0.770	0.770	0.770	0.771
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

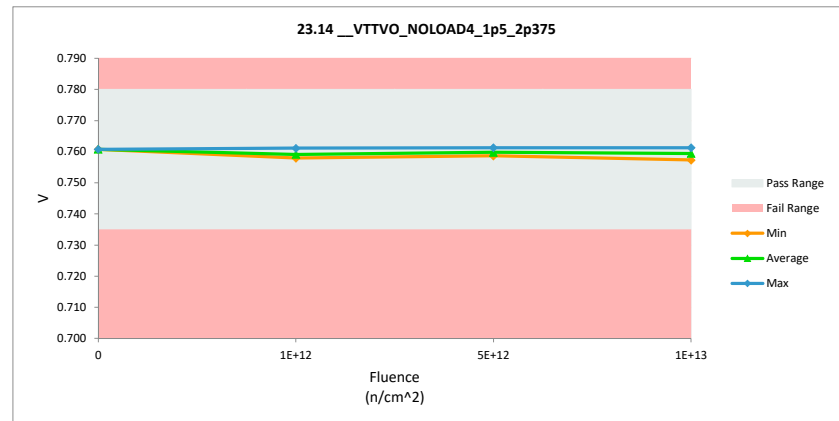
23.14_VTTVO_NOLOAD4_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.761	0.761	0.000
1E+12	2	0.758	0.758	0.000
1E+12	3	0.758	0.758	0.000
1E+12	4	0.761	0.761	0.000
5E+12	5	0.761	0.761	0.000
5E+12	6	0.758	0.759	0.000
5E+12	7	0.759	0.759	0.000
1E+13	8	0.761	0.761	0.000
1E+13	9	0.757	0.757	0.000
1E+13	10	0.760	0.760	0.000
	Max	0.761	0.761	0.000
	Average	0.760	0.760	0.000
	Min	0.757	0.757	0.000
	Std Dev	0.001	0.001	0.000



23.14_VTTVO_NOLOAD4_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

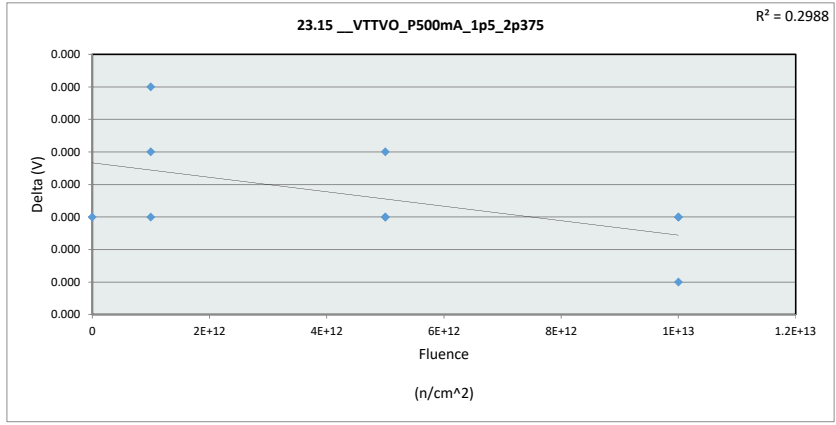
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.761	0.758	0.759	0.757
Average	0.761	0.759	0.760	0.759
Max	0.761	0.761	0.761	0.761
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

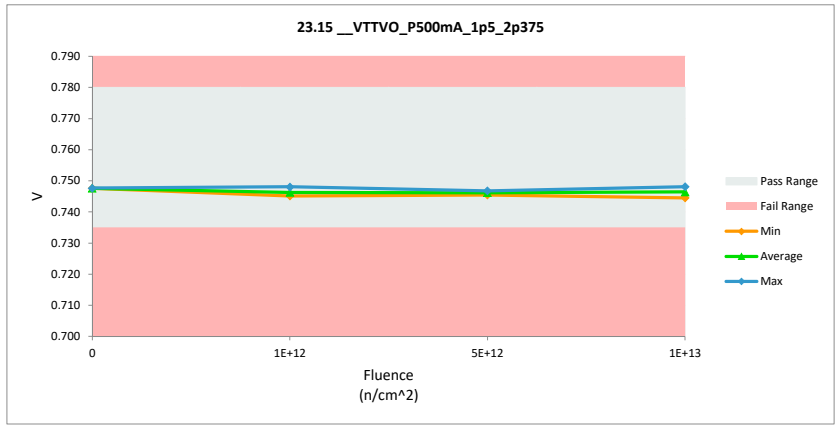
23.15_VTTVO_P500mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.748	0.748	0.000
1E+12	2	0.746	0.746	0.000
1E+12	3	0.745	0.745	0.000
1E+12	4	0.748	0.748	0.000
5E+12	5	0.747	0.747	0.000
5E+12	6	0.746	0.745	0.000
5E+12	7	0.746	0.746	0.000
1E+13	8	0.748	0.748	0.000
1E+13	9	0.745	0.744	0.000
1E+13	10	0.747	0.747	0.000
Max		0.748	0.748	0.000
Average		0.746	0.746	0.000
Min		0.745	0.744	0.000
Std Dev		0.001	0.001	0.000



23.15_VTTVO_P500mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

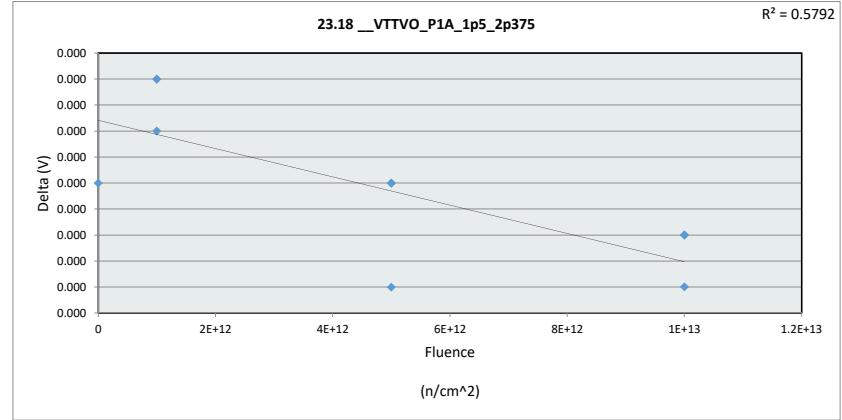
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.748	0.745	0.745	0.745
Average	0.748	0.746	0.746	0.746
Max	0.748	0.748	0.747	0.748
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

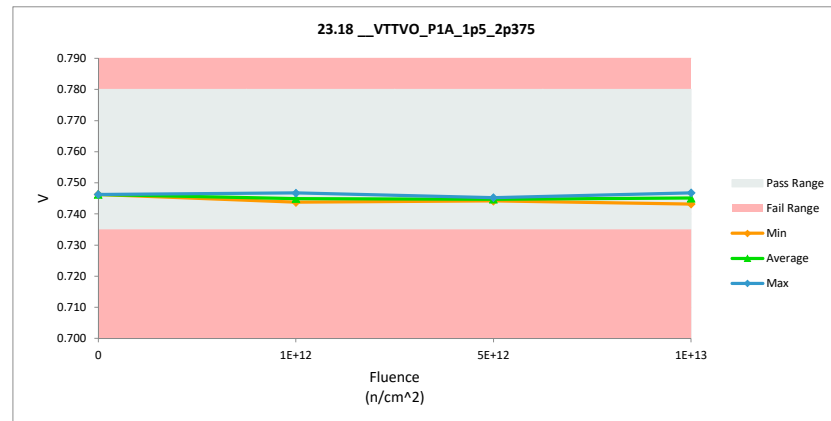
23.18_VTTVO_P1A_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.78
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.746	0.746	0.000
1E+12	2	0.744	0.744	0.000
1E+12	3	0.744	0.744	0.000
1E+12	4	0.747	0.747	0.000
5E+12	5	0.746	0.745	0.000
5E+12	6	0.744	0.744	0.000
5E+12	7	0.745	0.745	0.000
1E+13	8	0.747	0.747	0.000
1E+13	9	0.743	0.743	0.000
1E+13	10	0.745	0.745	0.000
	Max	0.747	0.747	0.000
	Average	0.745	0.745	0.000
	Min	0.743	0.743	0.000
	Std Dev	0.001	0.001	0.000



23.18_VTTVO_P1A_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.78
Min Limit	0.735

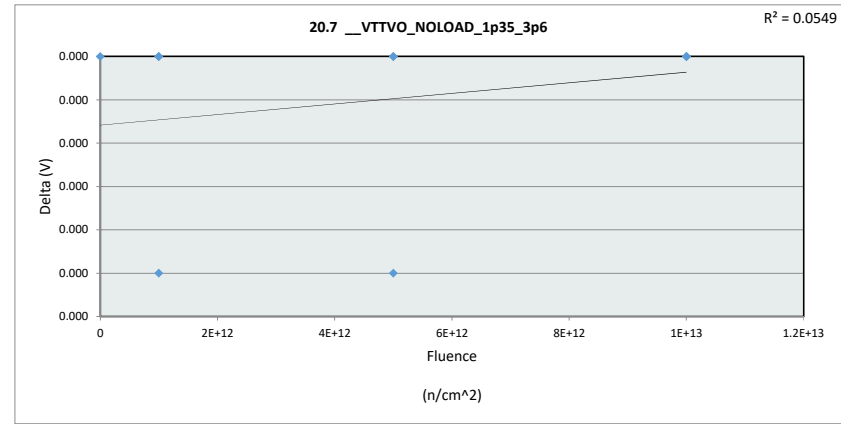
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.746	0.744	0.744	0.743
Average	0.746	0.745	0.745	0.745
Max	0.746	0.747	0.745	0.747
UL	0.780	0.780	0.780	0.780



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

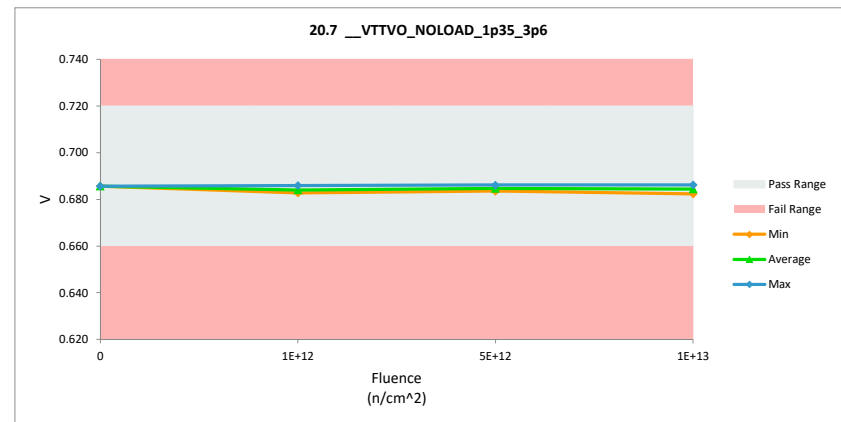
20.7 __ VTTVO_NOLOAD_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.72
Min Limit	0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.686	0.686	0.000
1E+12	2	0.683	0.683	0.000
1E+12	3	0.683	0.683	0.000
1E+12	4	0.686	0.686	0.000
5E+12	5	0.686	0.686	0.000
5E+12	6	0.683	0.683	0.000
5E+12	7	0.684	0.684	0.000
1E+13	8	0.686	0.686	0.000
1E+13	9	0.682	0.682	0.000
1E+13	10	0.685	0.685	0.000
Max		0.686	0.686	0.000
Average		0.684	0.684	0.000
Min		0.682	0.682	0.000
Std Dev		0.001	0.001	0.000



20.7 __ VTTVO_NOLOAD_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.72
Min Limit	0.66

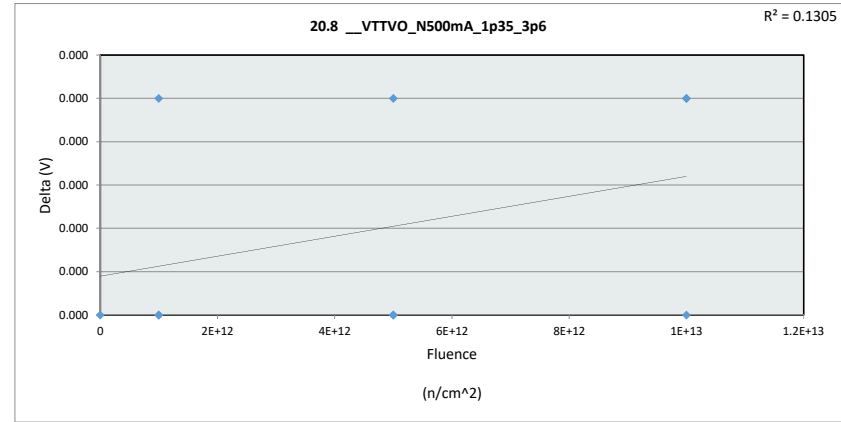
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.686	0.683	0.684	0.682
Average	0.686	0.684	0.685	0.684
Max	0.686	0.686	0.686	0.686
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

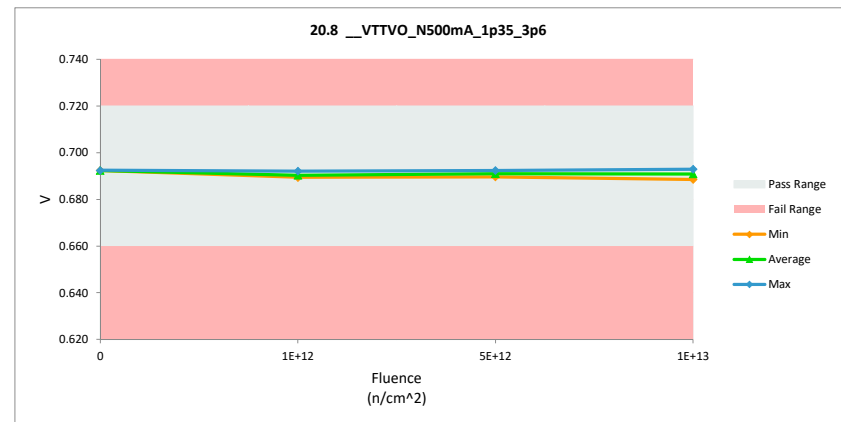
20.8 __ VTTVO_N500mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.72 0.72
Min Limit	0.66 0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.692	0.692	0.000
1E+12	2	0.689	0.689	0.000
1E+12	3	0.689	0.689	0.000
1E+12	4	0.692	0.692	0.000
5E+12	5	0.692	0.692	0.000
5E+12	6	0.689	0.690	0.000
5E+12	7	0.691	0.691	0.000
1E+13	8	0.693	0.693	0.000
1E+13	9	0.688	0.688	0.000
1E+13	10	0.691	0.691	0.000
Max		0.693	0.693	0.000
Average		0.691	0.691	0.000
Min		0.688	0.688	0.000
Std Dev		0.002	0.002	0.000



20.8 __ VTTVO_N500mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.72 V
Min Limit	0.66 V

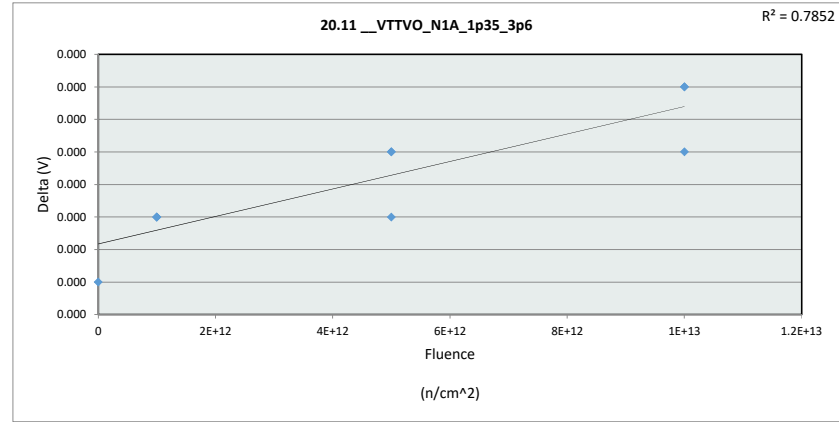
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.692	0.689	0.690	0.689
Average	0.692	0.690	0.691	0.691
Max	0.692	0.692	0.692	0.693
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

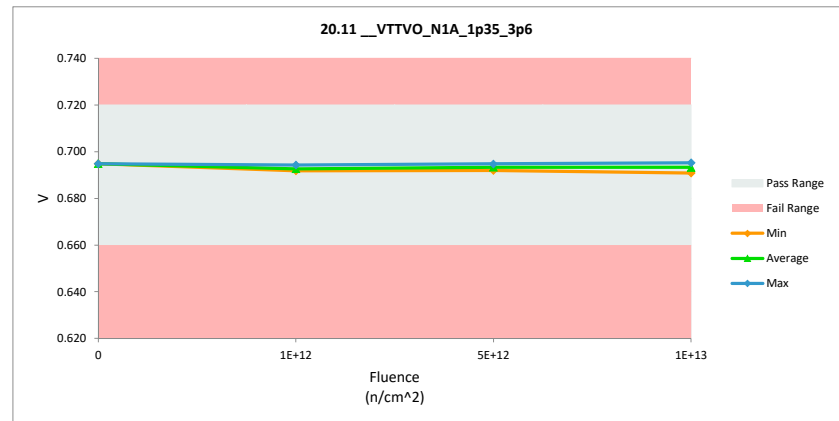
20.11_VTTVO_N1A_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.72
Min Limit	0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.695	0.695	0.000
1E+12	2	0.692	0.692	0.000
1E+12	3	0.692	0.692	0.000
1E+12	4	0.694	0.694	0.000
5E+12	5	0.695	0.695	0.000
5E+12	6	0.692	0.692	0.000
5E+12	7	0.693	0.693	0.000
1E+13	8	0.695	0.695	0.000
1E+13	9	0.691	0.691	0.000
1E+13	10	0.693	0.693	0.000
	Max	0.695	0.695	0.000
	Average	0.693	0.693	0.000
	Min	0.691	0.691	0.000
	Std Dev	0.002	0.002	0.000



20.11_VTTVO_N1A_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.72
Min Limit	0.66

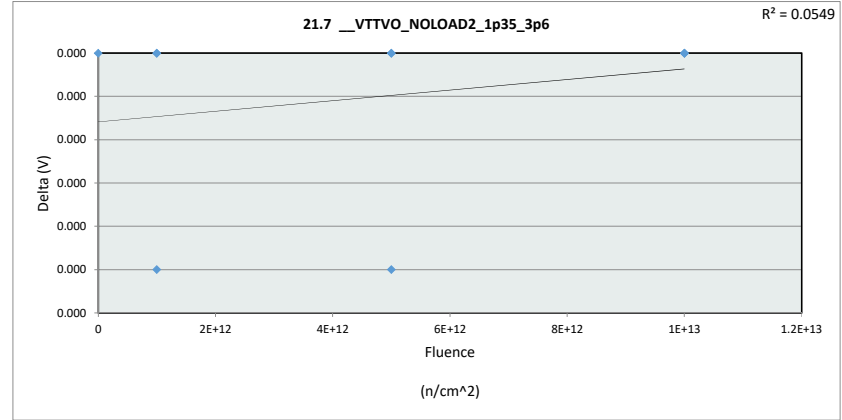
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.695	0.692	0.692	0.691
Average	0.695	0.693	0.693	0.693
Max	0.695	0.694	0.695	0.695
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

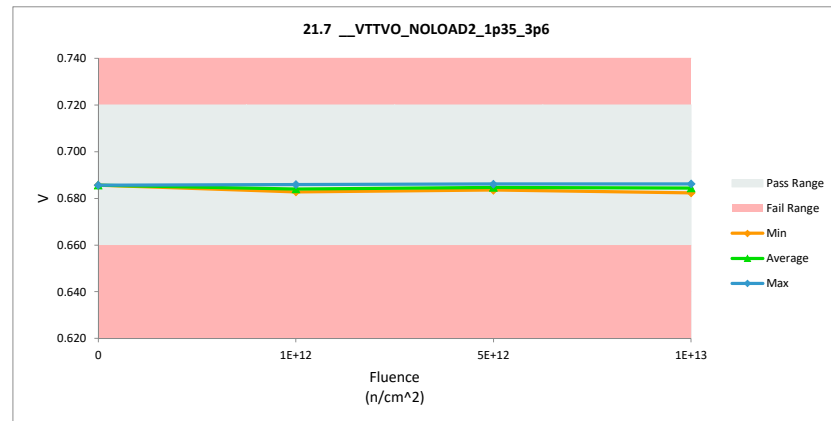
21.7 __ VTTVO_NOLOAD2_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.72 0.72
Min Limit	0.66 0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.686	0.686	0.000
1E+12	2	0.683	0.683	0.000
1E+12	3	0.683	0.683	0.000
1E+12	4	0.686	0.686	0.000
5E+12	5	0.686	0.686	0.000
5E+12	6	0.683	0.683	0.000
5E+12	7	0.684	0.684	0.000
1E+13	8	0.686	0.686	0.000
1E+13	9	0.682	0.682	0.000
1E+13	10	0.685	0.685	0.000
Max		0.686	0.686	0.000
Average		0.684	0.684	0.000
Min		0.682	0.682	0.000
Std Dev		0.001	0.001	0.000



21.7 __ VTTVO_NOLOAD2_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.72 V
Min Limit	0.66 V

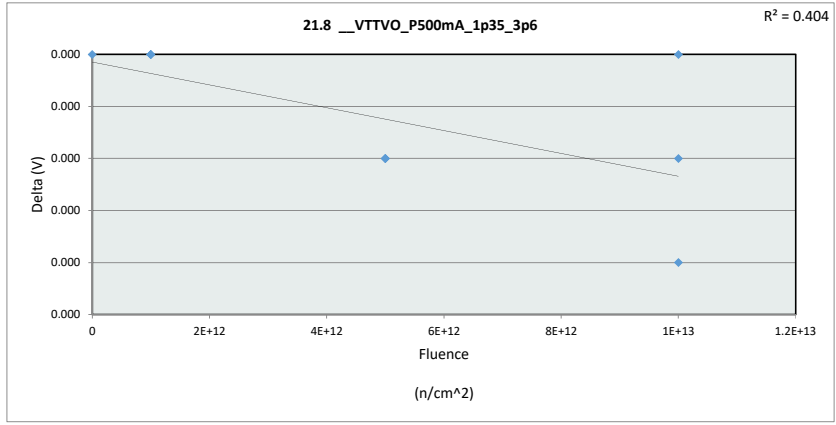
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.686	0.683	0.684	0.682
Average	0.686	0.684	0.685	0.684
Max	0.686	0.686	0.686	0.686
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

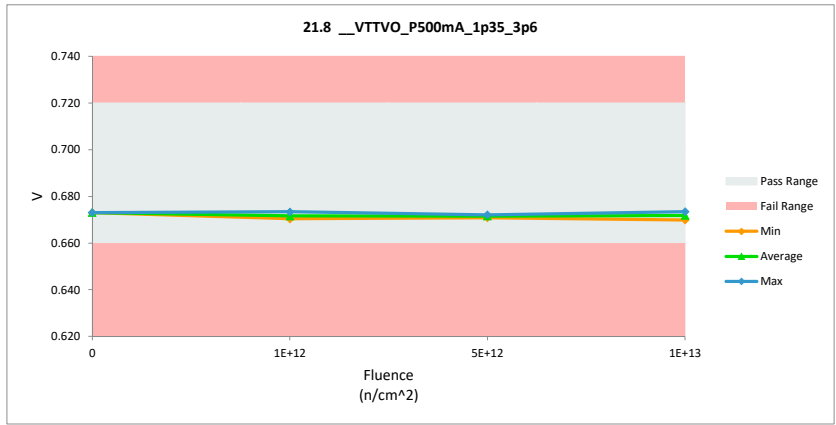
21.8 __ VTTVO_P500mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.72 0.72
Min Limit	0.66 0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.673	0.673	0.000
1E+12	2	0.671	0.671	0.000
1E+12	3	0.670	0.670	0.000
1E+12	4	0.673	0.673	0.000
5E+12	5	0.672	0.672	0.000
5E+12	6	0.671	0.671	0.000
5E+12	7	0.672	0.672	0.000
1E+13	8	0.674	0.674	0.000
1E+13	9	0.670	0.670	0.000
1E+13	10	0.672	0.672	0.000
Max		0.674	0.674	0.000
Average		0.672	0.672	0.000
Min		0.670	0.670	0.000
Std Dev		0.001	0.001	0.000



21.8 __ VTTVO_P500mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.72 V
Min Limit	0.66 V

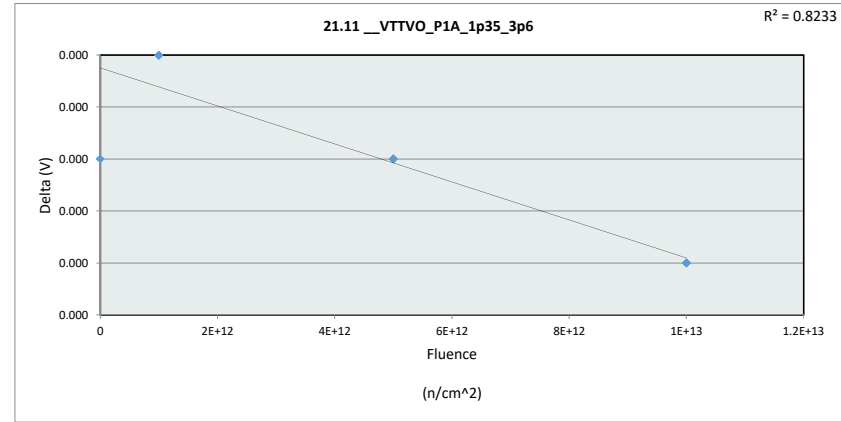
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.673	0.670	0.671	0.670
Average	0.673	0.672	0.671	0.672
Max	0.673	0.673	0.672	0.674
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

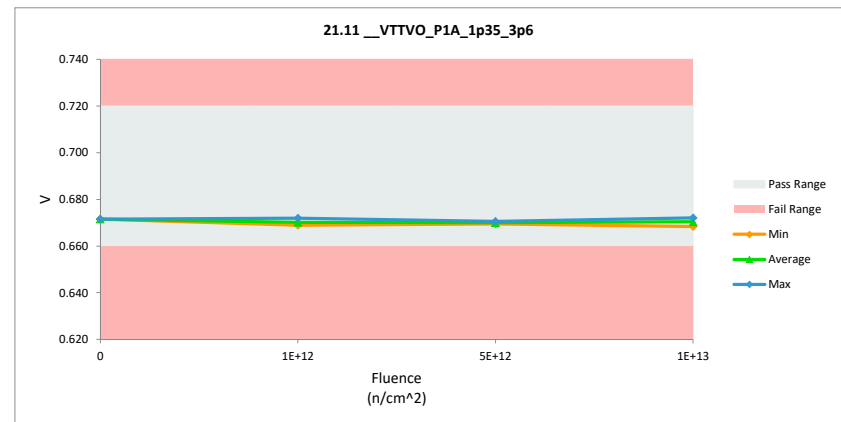
21.11_VTTVO_P1A_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.72 0.72
Min Limit	0.66 0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.672	0.672	0.000
1E+12	2	0.669	0.669	0.000
1E+12	3	0.669	0.669	0.000
1E+12	4	0.672	0.672	0.000
5E+12	5	0.671	0.671	0.000
5E+12	6	0.669	0.669	0.000
5E+12	7	0.670	0.670	0.000
1E+13	8	0.672	0.672	0.000
1E+13	9	0.669	0.668	0.000
1E+13	10	0.671	0.670	0.000
Max		0.672	0.672	0.000
Average		0.670	0.670	0.000
Min		0.669	0.668	0.000
Std Dev		0.001	0.001	0.000



21.11_VTTVO_P1A_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.72 V
Min Limit	0.66 V

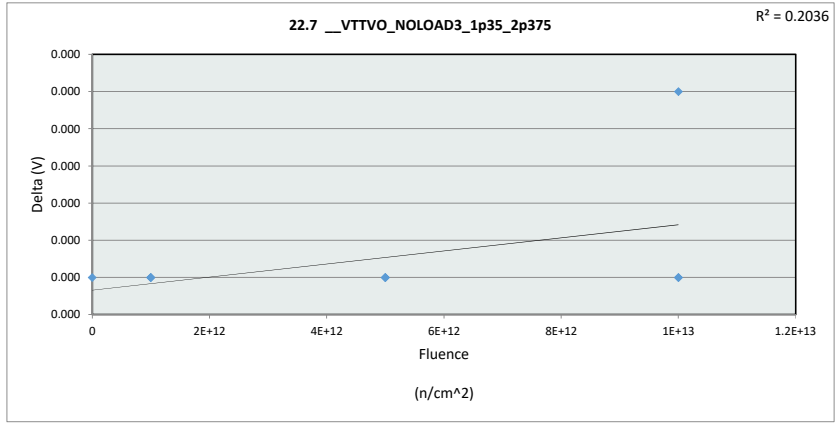
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.672	0.669	0.669	0.668
Average	0.672	0.670	0.670	0.670
Max	0.672	0.672	0.671	0.672
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

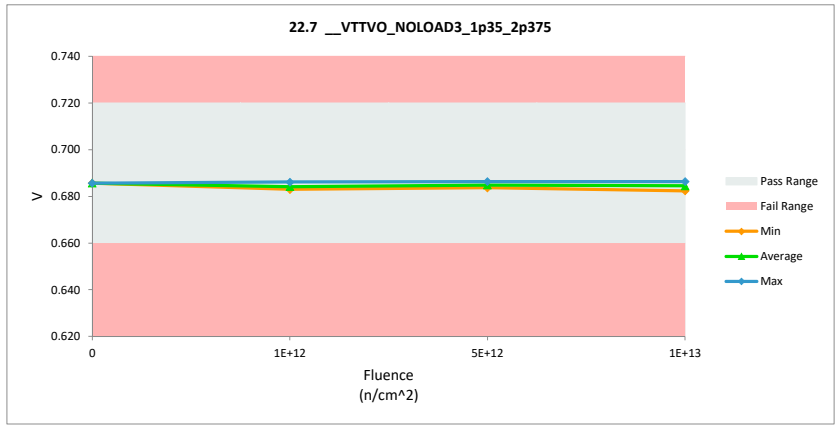
22.7 __VTTVO_NOLOAD3_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.72
Min Limit	0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.686	0.686	0.000
1E+12	2	0.683	0.683	0.000
1E+12	3	0.683	0.683	0.000
1E+12	4	0.686	0.686	0.000
5E+12	5	0.686	0.686	0.000
5E+12	6	0.684	0.684	0.000
5E+12	7	0.684	0.684	0.000
1E+13	8	0.686	0.686	0.000
1E+13	9	0.682	0.682	0.000
1E+13	10	0.685	0.685	0.000
Max		0.686	0.686	0.000
Average		0.685	0.685	0.000
Min		0.682	0.682	0.000
Std Dev		0.001	0.001	0.000



22.7 __VTTVO_NOLOAD3_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.72
Min Limit	0.66

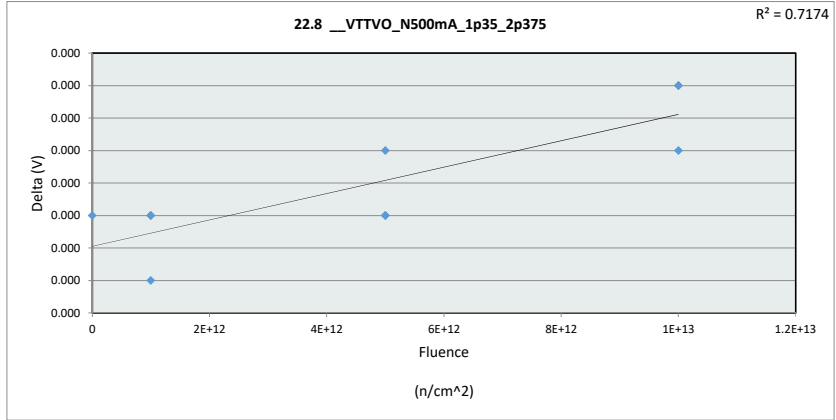
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.686	0.683	0.684	0.682
Average	0.686	0.684	0.685	0.684
Max	0.686	0.686	0.686	0.686
UL	0.720	0.720	0.720	0.720



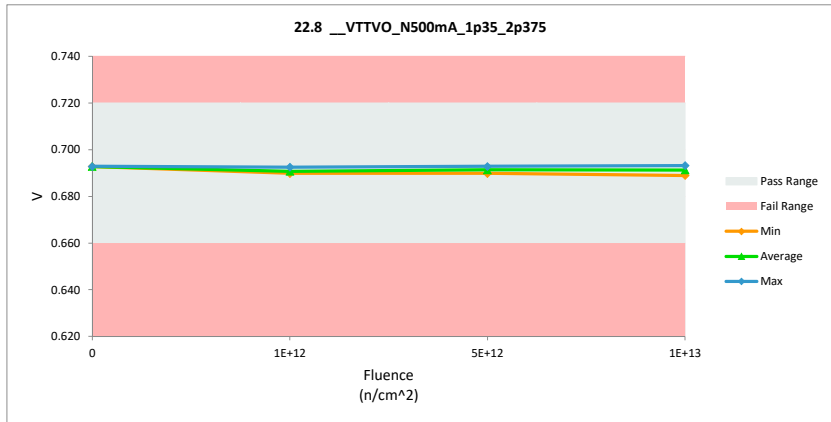
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

22.8 __ VTTVO_N500mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.72 0.72
Min Limit	0.66 0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.693	0.693	0.000
1E+12	2	0.690	0.690	0.000
1E+12	3	0.690	0.690	0.000
1E+12	4	0.692	0.692	0.000
5E+12	5	0.693	0.693	0.000
5E+12	6	0.690	0.690	0.000
5E+12	7	0.691	0.691	0.000
1E+13	8	0.693	0.693	0.000
1E+13	9	0.689	0.689	0.000
1E+13	10	0.691	0.692	0.000
Max		0.693	0.693	0.000
Average		0.691	0.691	0.000
Min		0.689	0.689	0.000
Std Dev		0.002	0.002	0.000



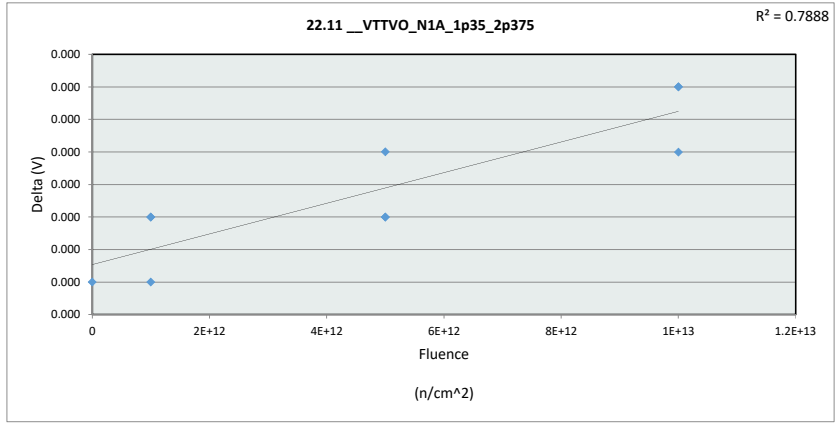
22.8 __ VTTVO_N500mA_1p35_2p375				
Test Site				
Tester				
Test Number				
Max Limit	0.72		V	
Min Limit	0.66		V	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.693	0.690	0.690	0.689
Average	0.693	0.691	0.691	0.691
Max	0.693	0.693	0.693	0.693
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

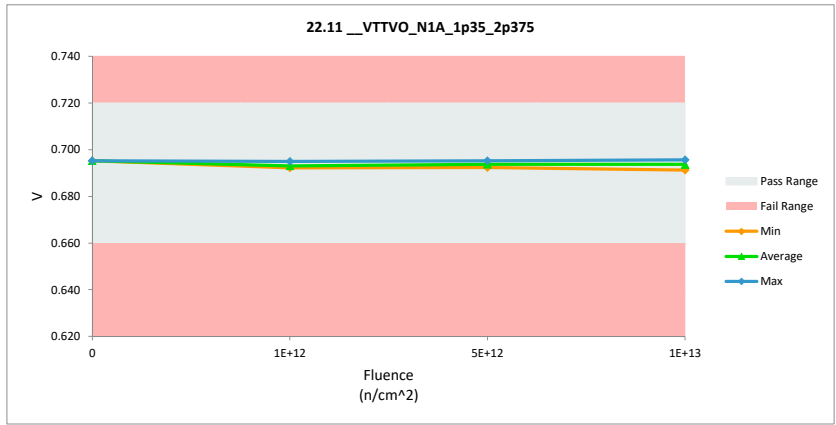
22.11_VTTVO_N1A_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.72
Min Limit	0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.695	0.695	0.000
1E+12	2	0.692	0.692	0.000
1E+12	3	0.692	0.692	0.000
1E+12	4	0.695	0.695	0.000
5E+12	5	0.695	0.695	0.000
5E+12	6	0.692	0.692	0.000
5E+12	7	0.694	0.694	0.000
1E+13	8	0.695	0.696	0.000
1E+13	9	0.691	0.691	0.000
1E+13	10	0.694	0.694	0.000
	Max	0.695	0.696	0.000
	Average	0.694	0.694	0.000
	Min	0.691	0.691	0.000
	Std Dev	0.002	0.002	0.000



22.11_VTTVO_N1A_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.72
Min Limit	0.66

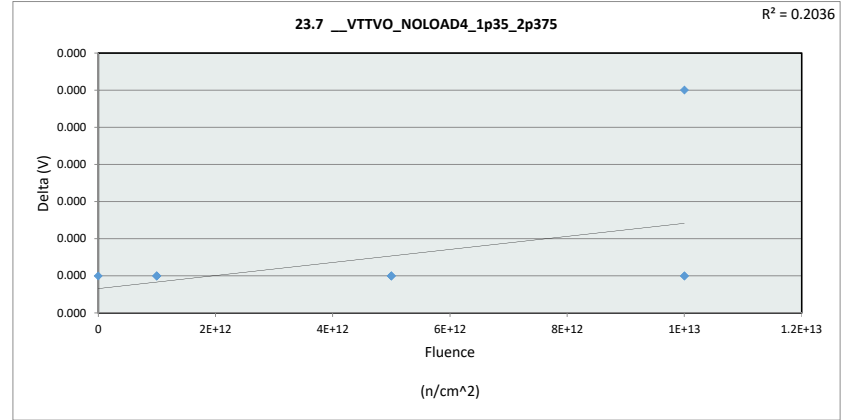
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.695	0.692	0.692	0.691
Average	0.695	0.693	0.694	0.694
Max	0.695	0.695	0.695	0.696
UL	0.720	0.720	0.720	0.720



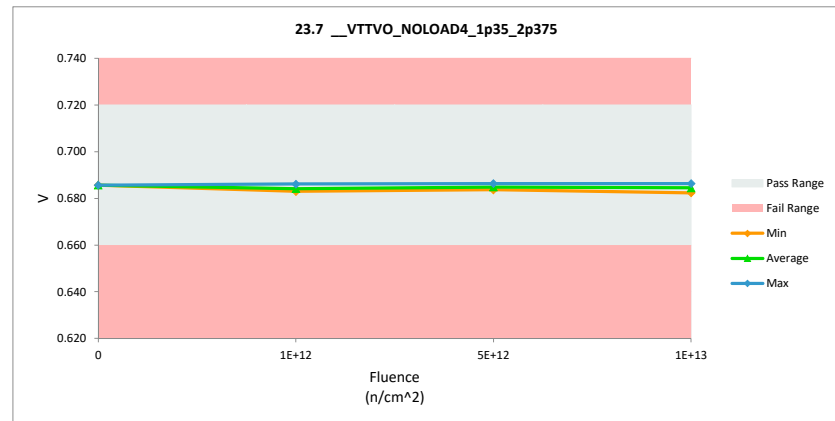
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

23.7 __ VTTVO_NOLOAD4_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.72
Min Limit	0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.686	0.686	0.000
1E+12	2	0.683	0.683	0.000
1E+12	3	0.683	0.683	0.000
1E+12	4	0.686	0.686	0.000
5E+12	5	0.686	0.686	0.000
5E+12	6	0.684	0.684	0.000
5E+12	7	0.684	0.684	0.000
1E+13	8	0.686	0.686	0.000
1E+13	9	0.682	0.682	0.000
1E+13	10	0.685	0.685	0.000
Max		0.686	0.686	0.000
Average		0.685	0.685	0.000
Min		0.682	0.682	0.000
Std Dev		0.001	0.001	0.000



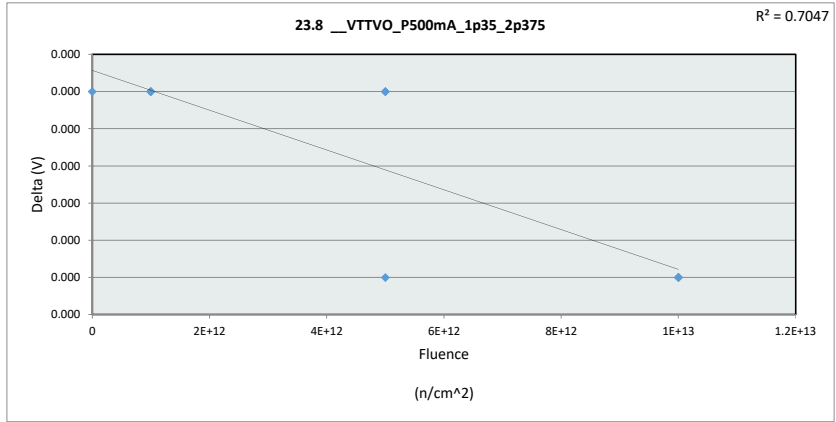
23.7 __ VTTVO_NOLOAD4_1p35_2p375				
Test Site				
Tester				
Test Number				
Max Limit	0.72		V	
Min Limit	0.66		V	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.686	0.683	0.684	0.682
Average	0.686	0.684	0.685	0.684
Max	0.686	0.686	0.686	0.686
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

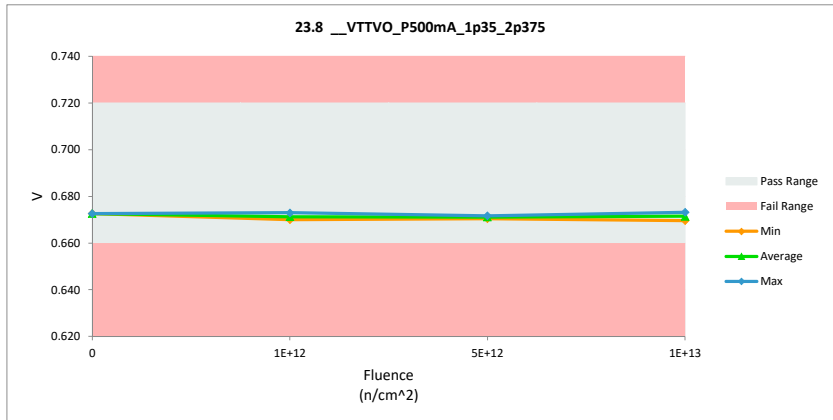
23.8 __ VTTVO_P500mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.72 0.72
Min Limit	0.66 0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.673	0.673	0.000
1E+12	2	0.671	0.671	0.000
1E+12	3	0.670	0.670	0.000
1E+12	4	0.673	0.673	0.000
5E+12	5	0.672	0.672	0.000
5E+12	6	0.670	0.670	0.000
5E+12	7	0.671	0.671	0.000
1E+13	8	0.673	0.673	0.000
1E+13	9	0.670	0.670	0.000
1E+13	10	0.672	0.672	0.000
Max		0.673	0.673	0.000
Average		0.671	0.671	0.000
Min		0.670	0.670	0.000
Std Dev		0.001	0.001	0.000



23.8 __ VTTVO_P500mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.72 V
Min Limit	0.66 V

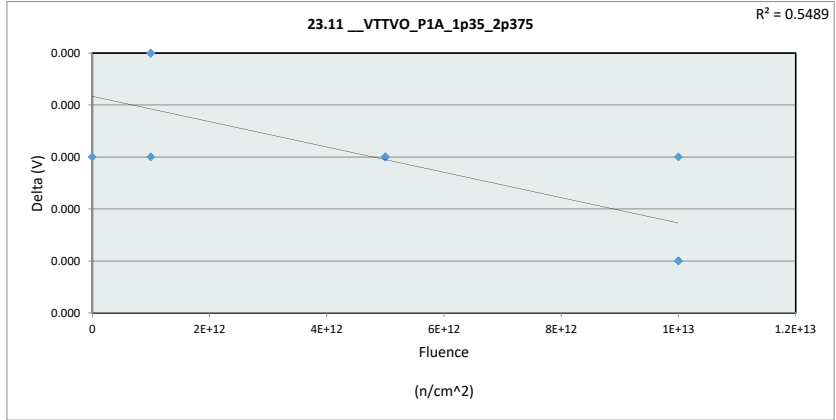
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.673	0.670	0.670	0.670
Average	0.673	0.671	0.671	0.671
Max	0.673	0.673	0.672	0.673
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

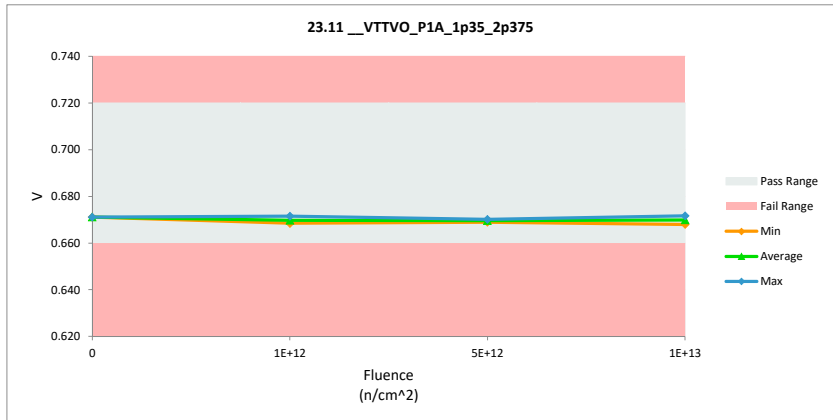
23.11_VTTVO_P1A_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.72
Min Limit	0.66

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.671	0.671	0.000
1E+12	2	0.669	0.669	0.000
1E+12	3	0.669	0.668	0.000
1E+12	4	0.672	0.672	0.000
5E+12	5	0.670	0.670	0.000
5E+12	6	0.669	0.669	0.000
5E+12	7	0.670	0.670	0.000
1E+13	8	0.672	0.672	0.000
1E+13	9	0.668	0.668	0.000
1E+13	10	0.670	0.670	0.000
Max		0.672	0.672	0.000
Average		0.670	0.670	0.000
Min		0.668	0.668	0.000
Std Dev		0.001	0.001	0.000



23.11_VTTVO_P1A_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.72
Min Limit	0.66

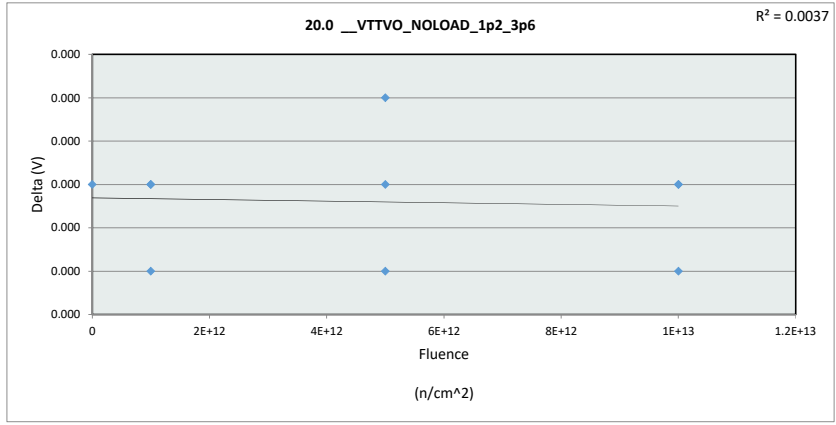
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.660	0.660	0.660	0.660
Min	0.671	0.668	0.669	0.668
Average	0.671	0.670	0.670	0.670
Max	0.671	0.672	0.670	0.672
UL	0.720	0.720	0.720	0.720



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

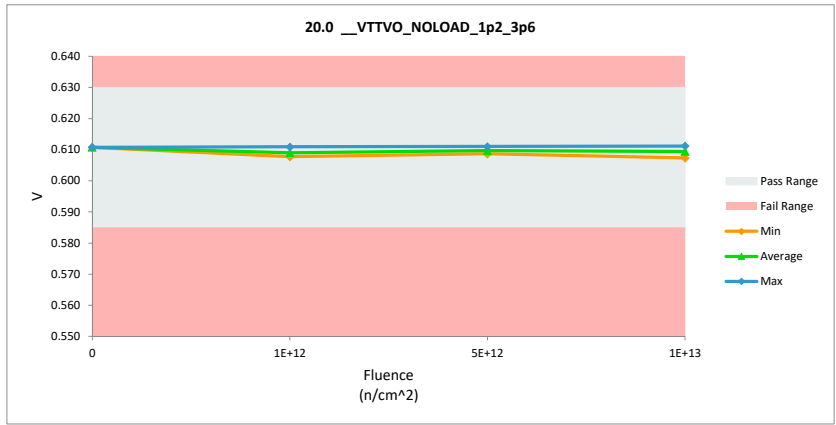
20.0 __ VTTVO_NOLOAD_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.63 0.63
Min Limit	0.585 0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.611	0.611	0.000
1E+12	2	0.608	0.608	0.000
1E+12	3	0.608	0.608	0.000
1E+12	4	0.611	0.611	0.000
5E+12	5	0.611	0.611	0.000
5E+12	6	0.609	0.609	0.000
5E+12	7	0.609	0.609	0.000
1E+13	8	0.611	0.611	0.000
1E+13	9	0.607	0.607	0.000
1E+13	10	0.610	0.610	0.000
Max		0.611	0.611	0.000
Average		0.609	0.609	0.000
Min		0.607	0.607	0.000
Std Dev		0.001	0.001	0.000



20.0 __ VTTVO_NOLOAD_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.63 V
Min Limit	0.585 V

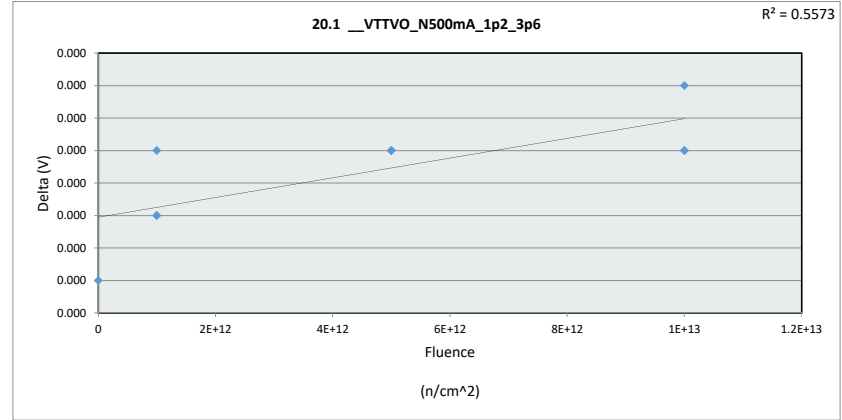
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.611	0.608	0.609	0.607
Average	0.611	0.609	0.610	0.609
Max	0.611	0.611	0.611	0.611
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

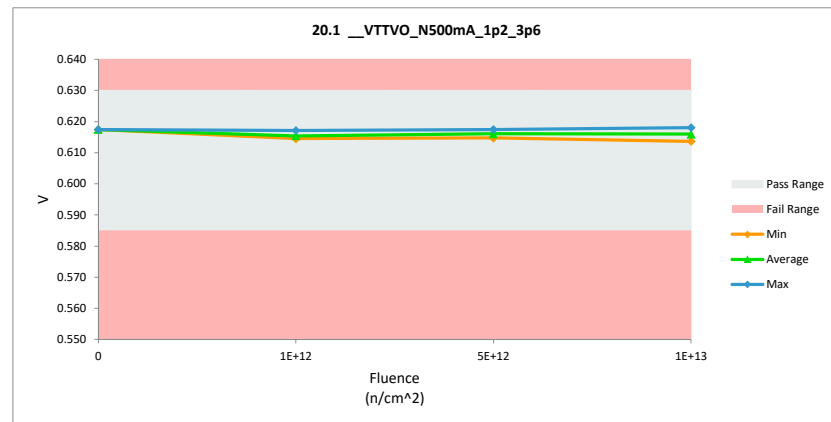
20.1 __ VTTVO_N500mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.63 0.63
Min Limit	0.585 0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.618	0.617	0.000
1E+12	2	0.614	0.615	0.000
1E+12	3	0.614	0.614	0.000
1E+12	4	0.617	0.617	0.000
5E+12	5	0.617	0.617	0.000
5E+12	6	0.615	0.615	0.000
5E+12	7	0.616	0.616	0.000
1E+13	8	0.618	0.618	0.000
1E+13	9	0.613	0.614	0.000
1E+13	10	0.616	0.616	0.000
	Max	0.618	0.618	0.000
	Average	0.616	0.616	0.000
	Min	0.613	0.614	0.000
	Std Dev	0.002	0.002	0.000



20.1 __ VTTVO_N500mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.63 V
Min Limit	0.585 V

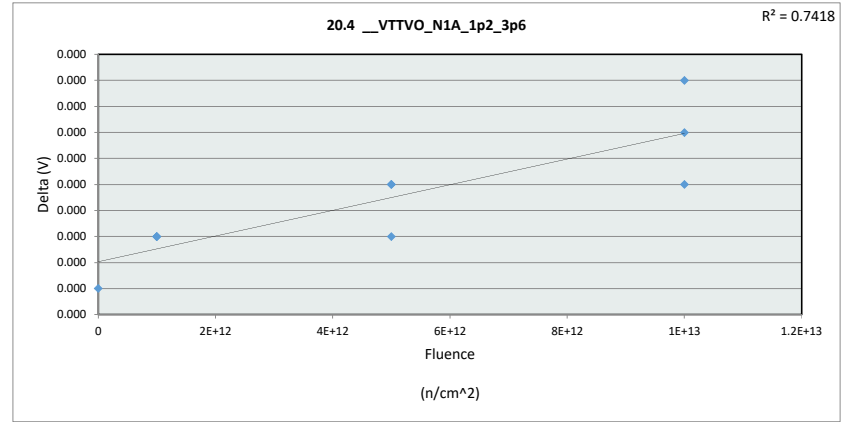
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.617	0.615	0.615	0.614
Average	0.617	0.615	0.616	0.616
Max	0.617	0.617	0.617	0.618
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

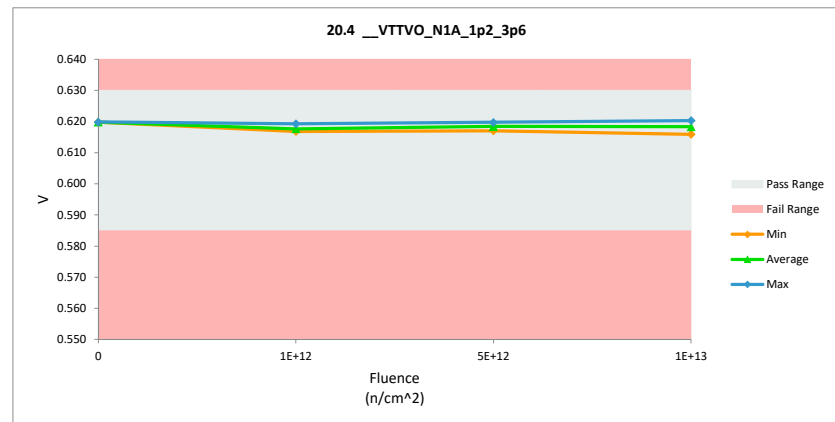
20.4 __ VTTVO_N1A_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.620	0.620	0.000
1E+12	2	0.617	0.617	0.000
1E+12	3	0.617	0.617	0.000
1E+12	4	0.619	0.619	0.000
5E+12	5	0.620	0.620	0.000
5E+12	6	0.617	0.617	0.000
5E+12	7	0.618	0.618	0.000
1E+13	8	0.620	0.620	0.000
1E+13	9	0.616	0.616	0.000
1E+13	10	0.618	0.619	0.000
	Max	0.620	0.620	0.000
	Average	0.618	0.618	0.000
	Min	0.616	0.616	0.000
	Std Dev	0.002	0.002	0.000



20.4 __ VTTVO_N1A_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

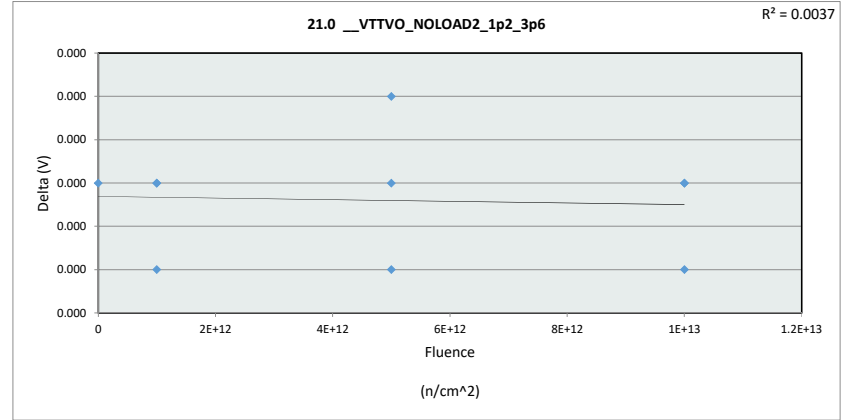
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.620	0.617	0.617	0.616
Average	0.620	0.618	0.618	0.618
Max	0.620	0.619	0.620	0.620
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

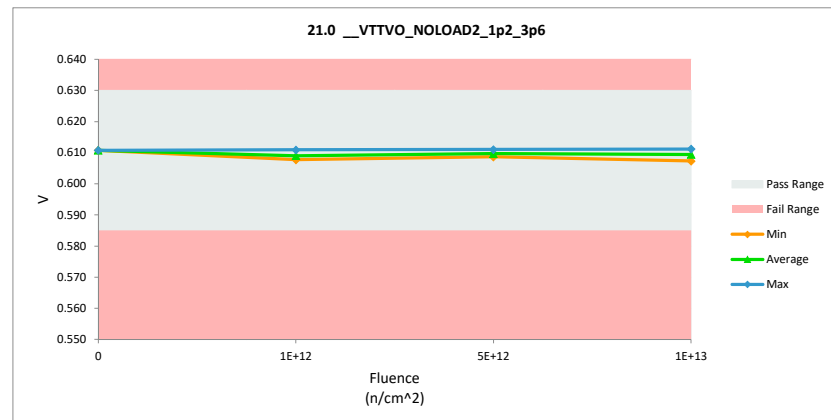
21.0 __ VTTVO_NOLOAD2_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.611	0.611	0.000
1E+12	2	0.608	0.608	0.000
1E+12	3	0.608	0.608	0.000
1E+12	4	0.611	0.611	0.000
5E+12	5	0.611	0.611	0.000
5E+12	6	0.609	0.609	0.000
5E+12	7	0.609	0.609	0.000
1E+13	8	0.611	0.611	0.000
1E+13	9	0.607	0.607	0.000
1E+13	10	0.610	0.610	0.000
	Max	0.611	0.611	0.000
	Average	0.609	0.609	0.000
	Min	0.607	0.607	0.000
	Std Dev	0.001	0.001	0.000



21.0 __ VTTVO_NOLOAD2_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

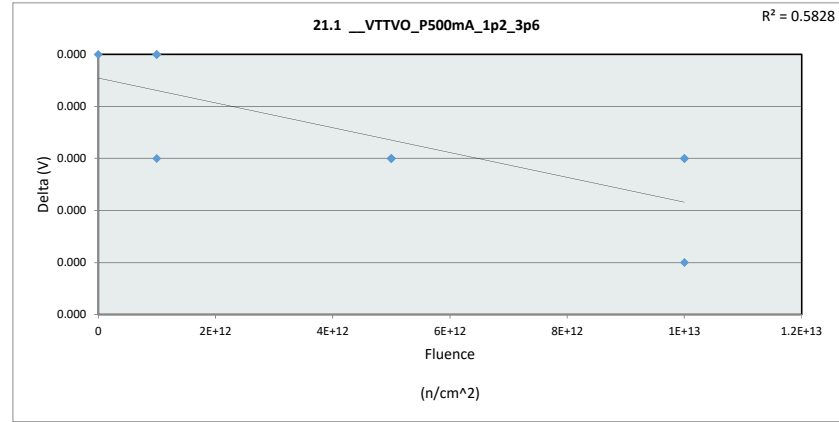
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.611	0.608	0.609	0.607
Average	0.611	0.609	0.610	0.609
Max	0.611	0.611	0.611	0.611
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

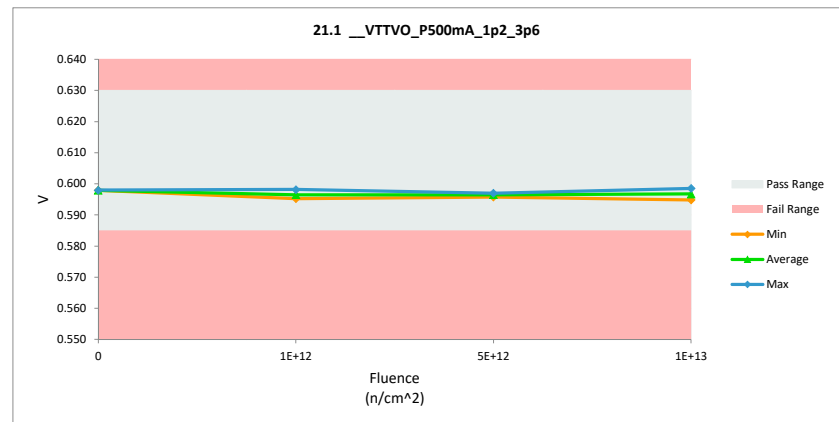
21.1 __ VTTVO_P500mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.63 0.63
Min Limit	0.585 0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.598	0.598	0.000
1E+12	2	0.596	0.596	0.000
1E+12	3	0.595	0.595	0.000
1E+12	4	0.598	0.598	0.000
5E+12	5	0.597	0.597	0.000
5E+12	6	0.596	0.596	0.000
5E+12	7	0.597	0.597	0.000
1E+13	8	0.599	0.599	0.000
1E+13	9	0.595	0.595	0.000
1E+13	10	0.597	0.597	0.000
Max		0.599	0.599	0.000
Average		0.597	0.597	0.000
Min		0.595	0.595	0.000
Std Dev		0.001	0.001	0.000



21.1 __ VTTVO_P500mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.63 V
Min Limit	0.585 V

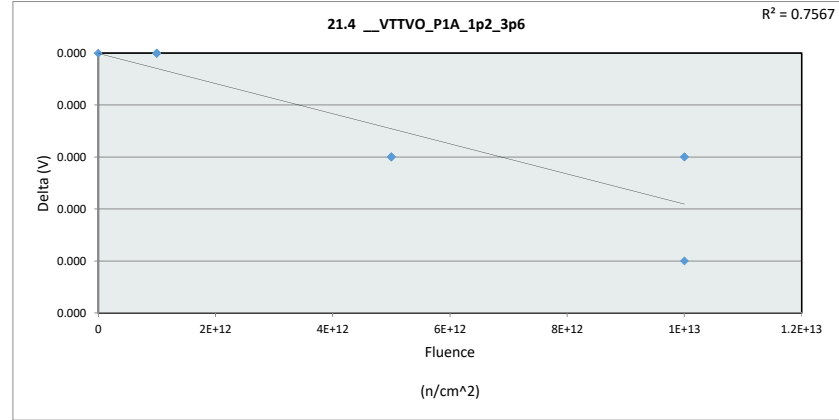
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.598	0.595	0.596	0.595
Average	0.598	0.596	0.596	0.597
Max	0.598	0.596	0.597	0.599
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

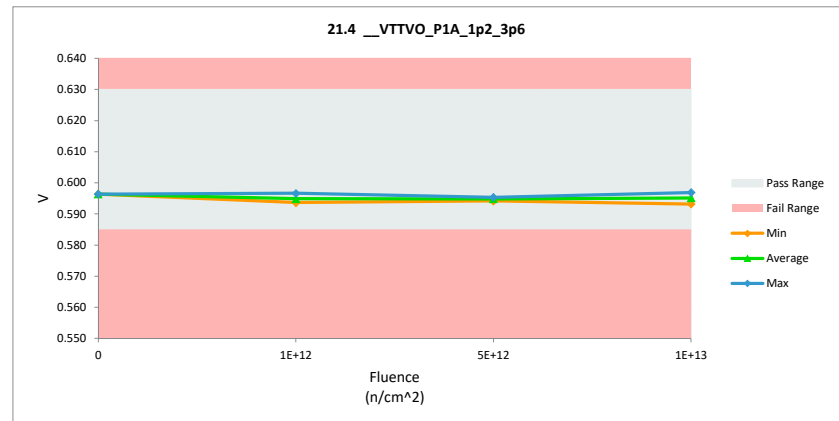
21.4 __ VTTVO_P1A_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.596	0.596	0.000
1E+12	2	0.594	0.594	0.000
1E+12	3	0.594	0.594	0.000
1E+12	4	0.597	0.597	0.000
5E+12	5	0.595	0.595	0.000
5E+12	6	0.594	0.594	0.000
5E+12	7	0.595	0.595	0.000
1E+13	8	0.597	0.597	0.000
1E+13	9	0.593	0.593	0.000
1E+13	10	0.595	0.595	0.000
Max		0.597	0.597	0.000
Average		0.595	0.595	0.000
Min		0.593	0.593	0.000
Std Dev		0.001	0.001	0.000



21.4 __ VTTVO_P1A_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

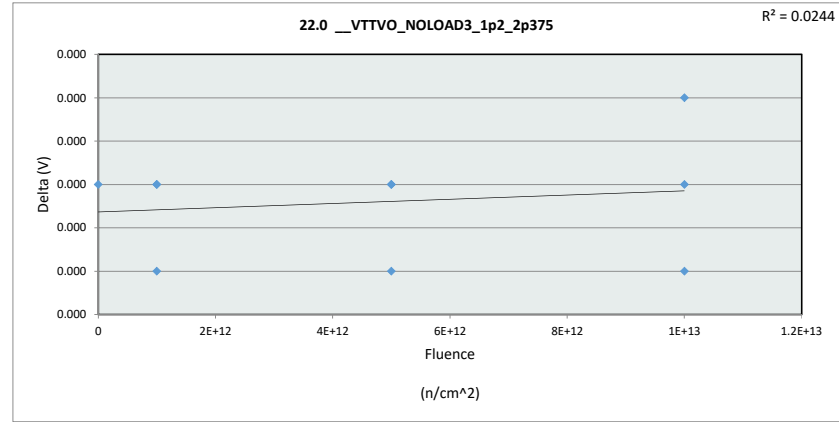
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.596	0.594	0.594	0.593
Average	0.596	0.595	0.595	0.595
Max	0.596	0.597	0.595	0.597
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

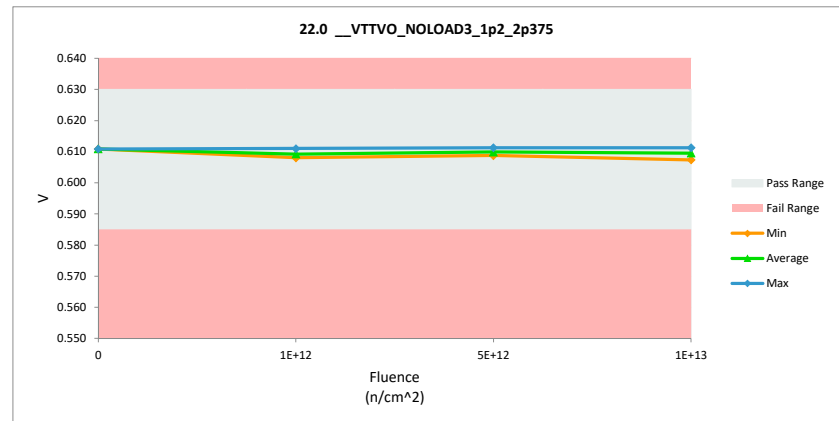
22.0 __VTTVO_NOLOAD3_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.611	0.611	0.000
1E+12	2	0.609	0.609	0.000
1E+12	3	0.608	0.608	0.000
1E+12	4	0.611	0.611	0.000
5E+12	5	0.611	0.611	0.000
5E+12	6	0.609	0.609	0.000
5E+12	7	0.609	0.609	0.000
1E+13	8	0.611	0.611	0.000
1E+13	9	0.607	0.607	0.000
1E+13	10	0.610	0.610	0.000
Max		0.611	0.611	0.000
Average		0.610	0.610	0.000
Min		0.607	0.607	0.000
Std Dev		0.001	0.001	0.000



22.0 __VTTVO_NOLOAD3_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

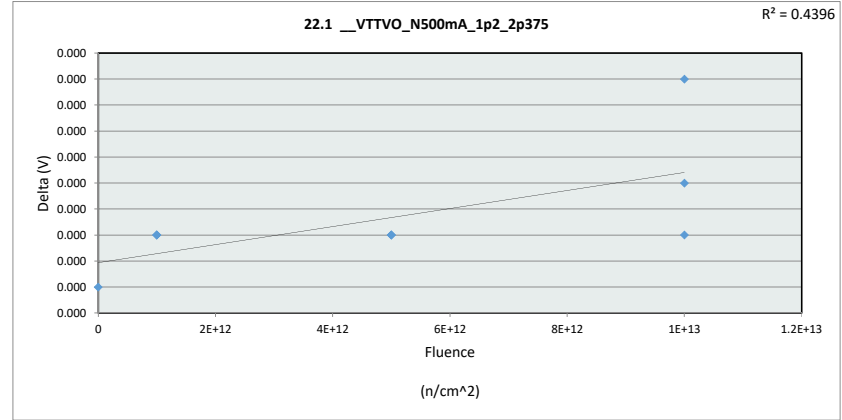
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.611	0.608	0.609	0.607
Average	0.611	0.609	0.610	0.609
Max	0.611	0.611	0.611	0.611
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

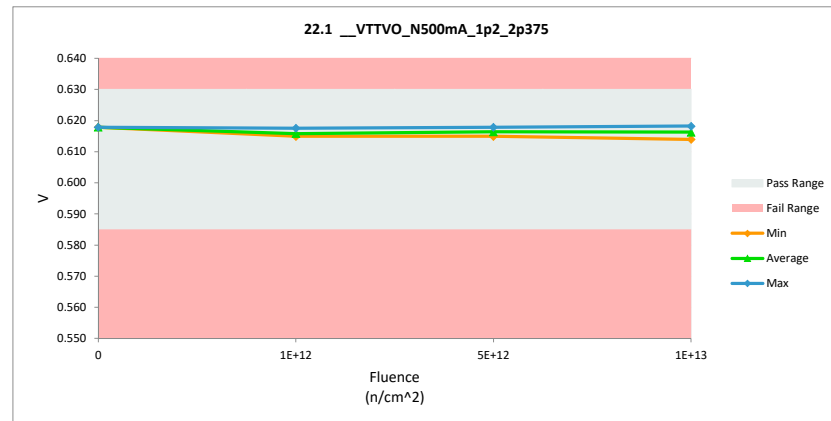
22.1 __ VTTVO_N500mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.585	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.618	0.618	0.000
1E+12	2	0.615	0.615	0.000
1E+12	3	0.615	0.615	0.000
1E+12	4	0.618	0.618	0.000
5E+12	5	0.618	0.618	0.000
5E+12	6	0.615	0.615	0.000
5E+12	7	0.616	0.616	0.000
1E+13	8	0.618	0.618	0.000
1E+13	9	0.614	0.614	0.000
1E+13	10	0.616	0.617	0.000
Max		0.618	0.618	0.000
Average		0.616	0.616	0.000
Min		0.614	0.614	0.000
Std Dev		0.002	0.002	0.000



22.1 __ VTTVO_N500mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.63	V
Min Limit	0.585	V

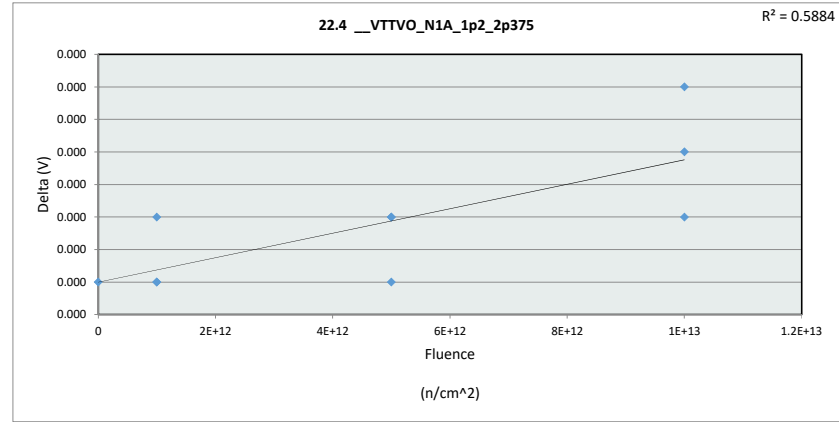
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.618	0.615	0.615	0.614
Average	0.618	0.616	0.616	0.616
Max	0.618	0.618	0.618	0.618
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

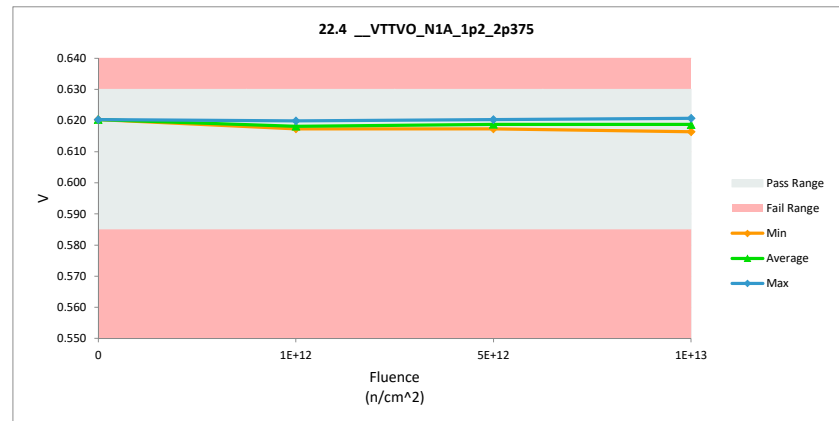
22.4 __VTTVO_N1A_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.620	0.620	0.000
1E+12	2	0.617	0.617	0.000
1E+12	3	0.617	0.617	0.000
1E+12	4	0.620	0.620	0.000
5E+12	5	0.620	0.620	0.000
5E+12	6	0.617	0.617	0.000
5E+12	7	0.619	0.619	0.000
1E+13	8	0.620	0.621	0.000
1E+13	9	0.616	0.616	0.000
1E+13	10	0.619	0.619	0.000
Max		0.620	0.621	0.000
Average		0.619	0.619	0.000
Min		0.616	0.616	0.000
Std Dev		0.002	0.002	0.000



22.4 __VTTVO_N1A_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

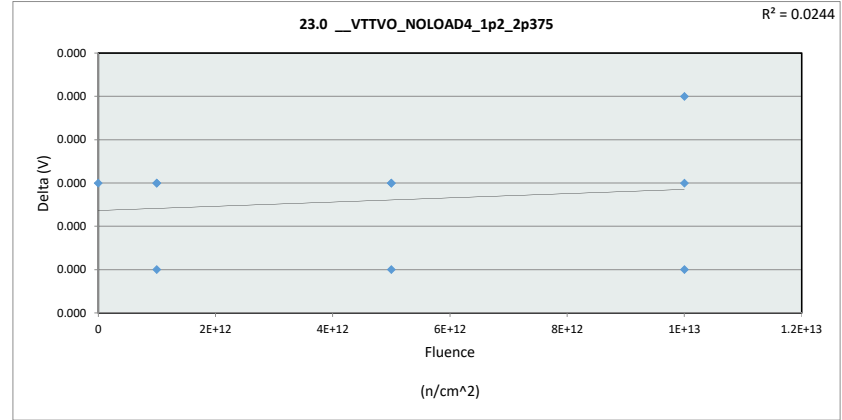
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.620	0.617	0.617	0.616
Average	0.620	0.618	0.619	0.619
Max	0.620	0.620	0.620	0.621
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

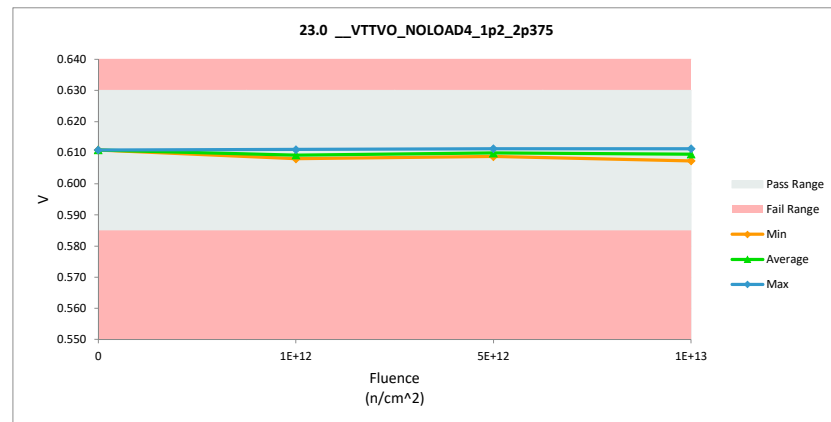
23.0 __VTTVO_NOLOAD4_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.63 0.63
Min Limit	0.585 0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.611	0.611	0.000
1E+12	2	0.609	0.609	0.000
1E+12	3	0.608	0.608	0.000
1E+12	4	0.611	0.611	0.000
5E+12	5	0.611	0.611	0.000
5E+12	6	0.609	0.609	0.000
5E+12	7	0.609	0.609	0.000
1E+13	8	0.611	0.611	0.000
1E+13	9	0.607	0.607	0.000
1E+13	10	0.610	0.610	0.000
	Max	0.611	0.611	0.000
	Average	0.610	0.610	0.000
	Min	0.607	0.607	0.000
	Std Dev	0.001	0.001	0.000



23.0 __VTTVO_NOLOAD4_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.63 V
Min Limit	0.585 V

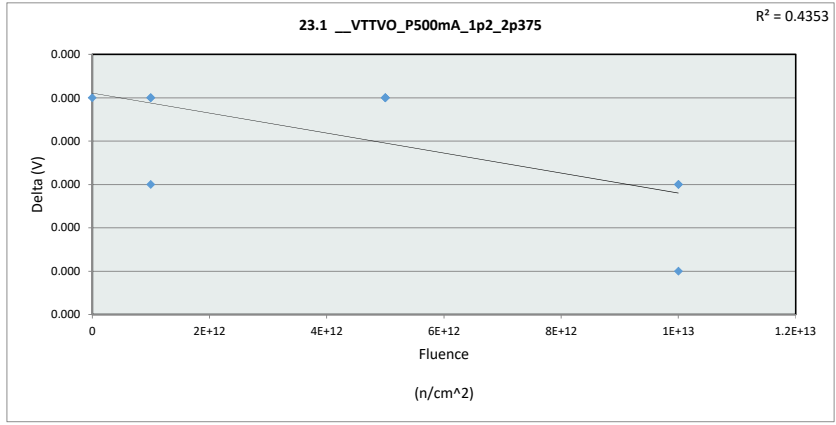
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.611	0.608	0.609	0.607
Average	0.611	0.609	0.610	0.609
Max	0.611	0.611	0.611	0.611
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

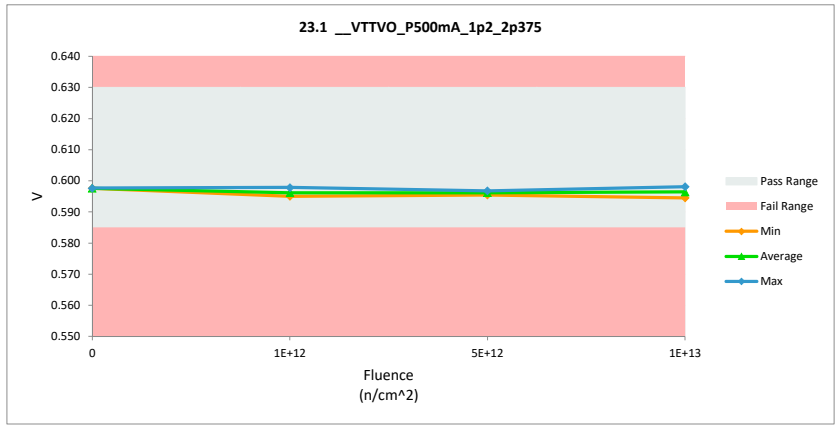
23.1 __ VTTVO_P500mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.598	0.598	0.000
1E+12	2	0.596	0.596	0.000
1E+12	3	0.595	0.595	0.000
1E+12	4	0.598	0.598	0.000
5E+12	5	0.597	0.597	0.000
5E+12	6	0.595	0.595	0.000
5E+12	7	0.596	0.596	0.000
1E+13	8	0.598	0.598	0.000
1E+13	9	0.595	0.595	0.000
1E+13	10	0.597	0.596	0.000
Max		0.598	0.598	0.000
Average		0.596	0.596	0.000
Min		0.595	0.595	0.000
Std Dev		0.001	0.001	0.000



23.1 __ VTTVO_P500mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

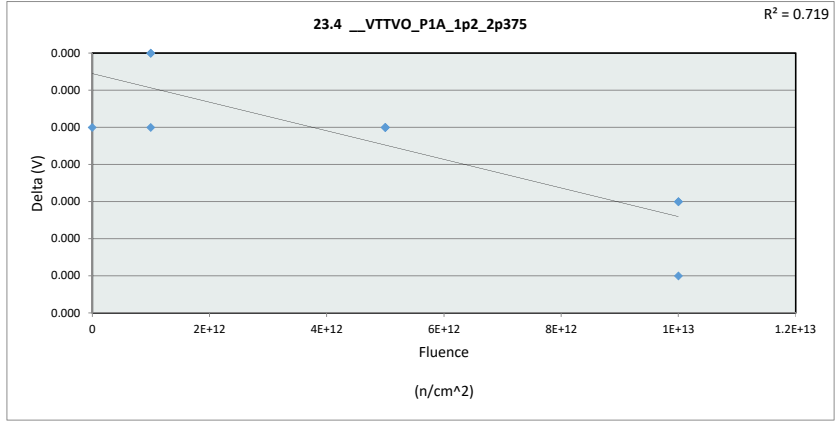
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.598	0.595	0.595	0.595
Average	0.598	0.596	0.596	0.596
Max	0.598	0.596	0.597	0.598
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

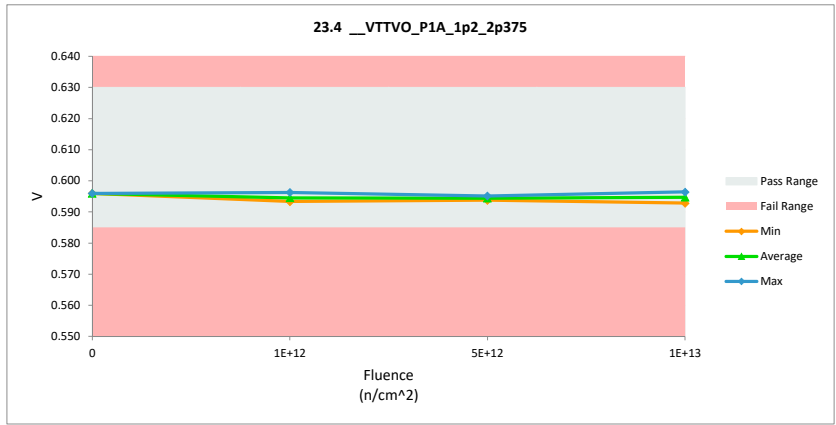
23.4 __VTTVO_P1A_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.63
Min Limit	0.585

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.596	0.596	0.000
1E+12	2	0.594	0.594	0.000
1E+12	3	0.593	0.593	0.000
1E+12	4	0.596	0.596	0.000
5E+12	5	0.595	0.595	0.000
5E+12	6	0.594	0.594	0.000
5E+12	7	0.595	0.595	0.000
1E+13	8	0.597	0.596	0.000
1E+13	9	0.593	0.593	0.000
1E+13	10	0.595	0.595	0.000
Max		0.597	0.596	0.000
Average		0.595	0.595	0.000
Min		0.593	0.593	0.000
Std Dev		0.001	0.001	0.000



23.4 __VTTVO_P1A_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.63
Min Limit	0.585

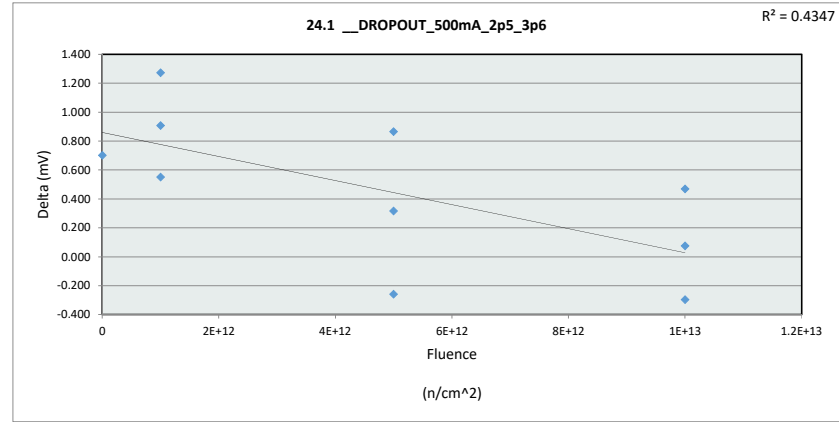
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.585	0.585	0.585	0.585
Min	0.596	0.593	0.594	0.593
Average	0.596	0.594	0.594	0.595
Max	0.596	0.596	0.595	0.596
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

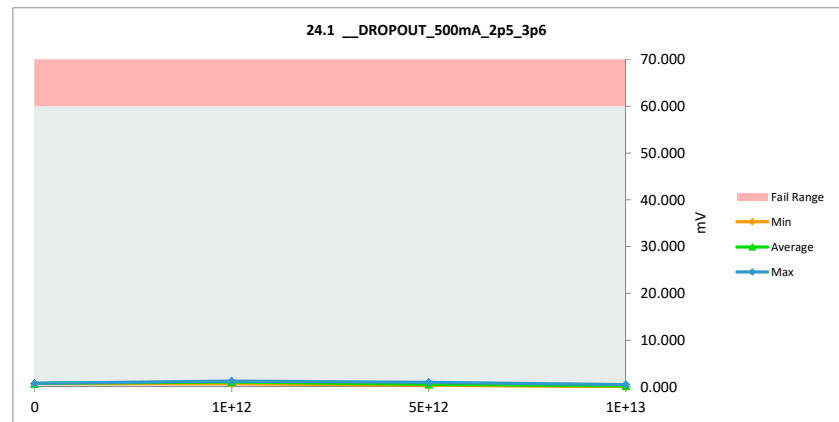
24.1 __DROPOUT_500mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	60 60
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.000	0.702	0.702
1E+12	2	0.115	0.665	0.550
1E+12	3	0.000	1.272	1.272
1E+12	4	0.208	1.115	0.907
5E+12	5	0.000	0.315	0.315
5E+12	6	0.100	0.966	0.866
5E+12	7	0.593	0.334	-0.259
1E+13	8	0.333	0.035	-0.298
1E+13	9	0.000	0.469	0.469
1E+13	10	0.081	0.155	0.074
	Max	0.593	1.272	1.272
	Average	0.143	0.603	0.460
	Min	0.000	0.035	-0.298
	Std Dev	0.192	0.415	0.511



24.1 __DROPOUT_500mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	60 mV
Min Limit	mV

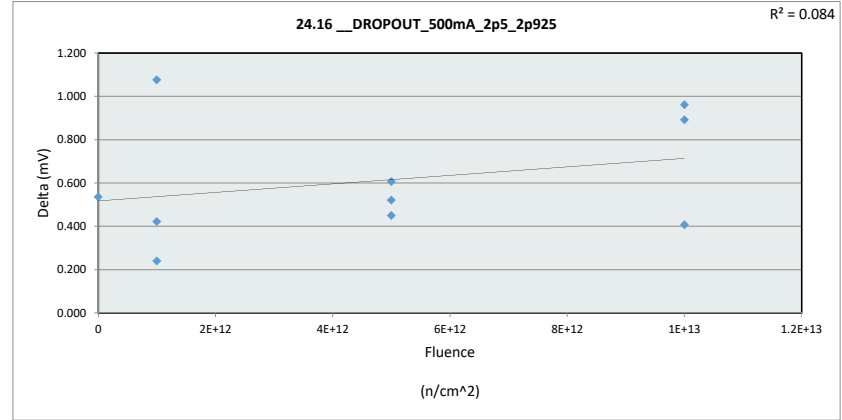
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.702	0.665	0.316	0.035
Average	0.702	1.017	0.538	0.220
Max	0.702	1.272	0.966	0.469
UL	60.000	60.000	60.000	60.000



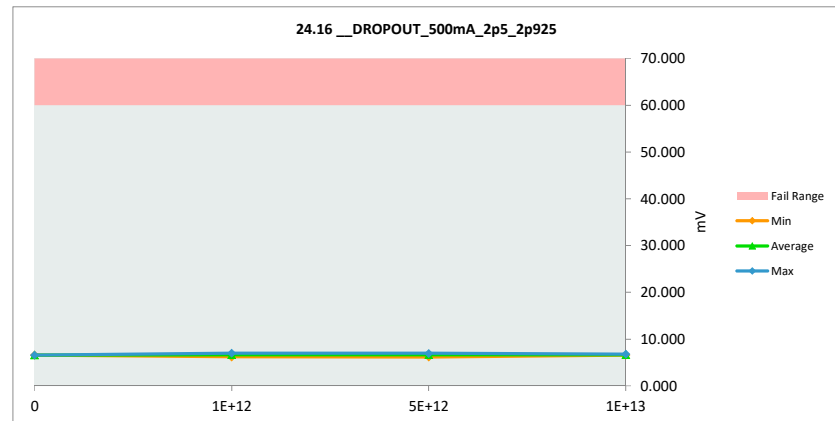
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

24.16 DROPOUT_500mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	60 60
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.032	6.567	0.536
1E+12	2	6.617	6.858	0.241
1E+12	3	5.905	6.983	1.077
1E+12	4	5.766	6.189	0.423
5E+12	5	5.731	6.181	0.450
5E+12	6	6.265	6.786	0.521
5E+12	7	6.342	6.949	0.607
1E+13	8	6.186	6.594	0.408
1E+13	9	5.810	6.771	0.961
1E+13	10	5.678	6.571	0.893
	Max	6.617	6.983	1.077
	Average	6.033	6.645	0.612
	Min	5.678	6.181	0.241
	Std Dev	0.310	0.284	0.273



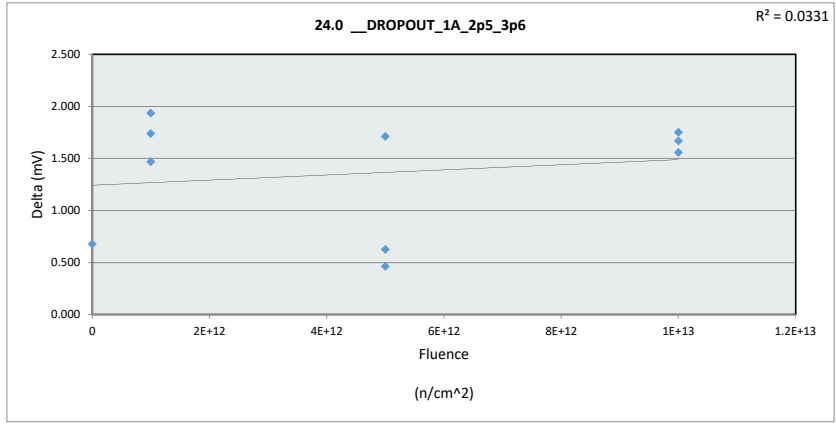
24.16 DROPOUT_500mA_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	60	mV		
Min Limit		mV		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	6.567	6.189	6.181	6.571
Average	6.567	6.676	6.639	6.645
Max	6.567	6.983	6.949	6.771
UL	60.000	60.000	60.000	60.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

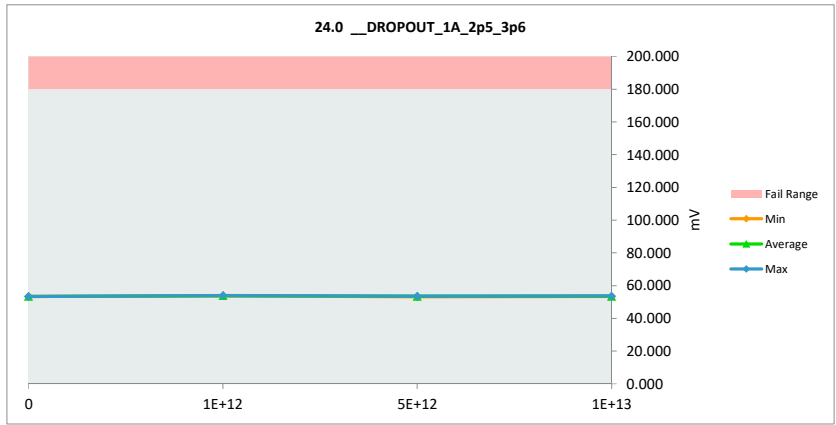
24.0 __DROPOUT_1A_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	52.647	53.326	0.679
1E+12	2	52.432	53.902	1.470
1E+12	3	52.072	54.009	1.937
1E+12	4	51.971	53.709	1.738
5E+12	5	51.553	53.264	1.711
5E+12	6	52.920	53.545	0.625
5E+12	7	53.118	53.583	0.464
1E+13	8	51.852	53.409	1.556
1E+13	9	51.947	53.616	1.669
1E+13	10	51.705	53.457	1.753
	Max	53.118	54.009	1.937
	Average	52.222	53.582	1.360
	Min	51.553	53.264	0.464
	Std Dev	0.530	0.239	0.548



24.0 __DROPOUT_1A_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	

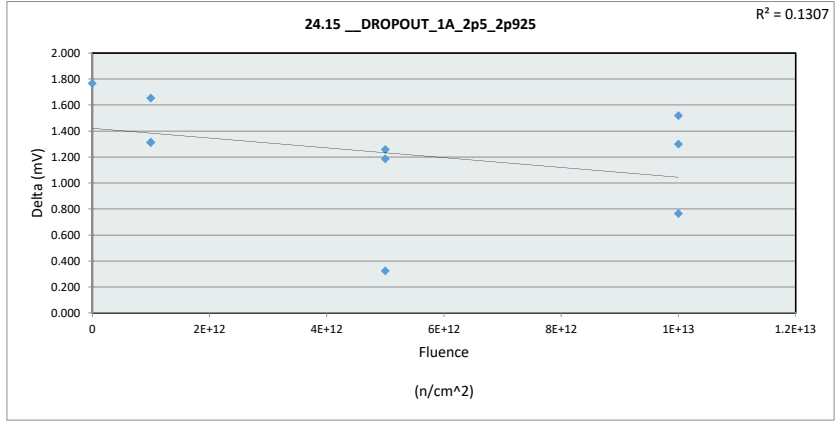
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	53.326	53.709	53.264	53.409
Average	53.326	53.873	53.464	53.494
Max	53.326	54.009	53.583	53.616
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

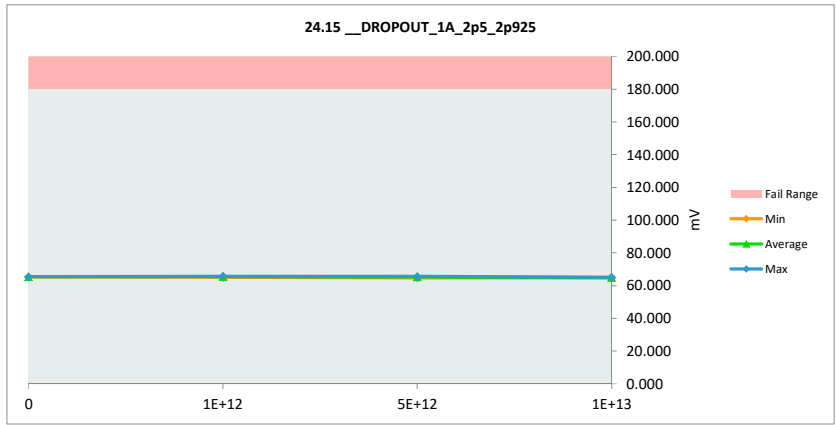
24.15 DROPOUT_1A_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	63.574	65.342	1.768
1E+12	2	64.388	65.701	1.312
1E+12	3	63.990	65.644	1.654
1E+12	4	63.663	64.978	1.315
5E+12	5	63.471	64.729	1.259
5E+12	6	64.386	65.573	1.187
5E+12	7	65.173	65.497	0.324
1E+13	8	63.639	65.157	1.518
1E+13	9	63.496	64.796	1.301
1E+13	10	63.914	64.679	0.765
	Max	65.173	65.701	1.768
	Average	63.969	65.210	1.240
	Min	63.471	64.679	0.324
	Std Dev	0.541	0.395	0.423



24.15 DROPOUT_1A_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	mV

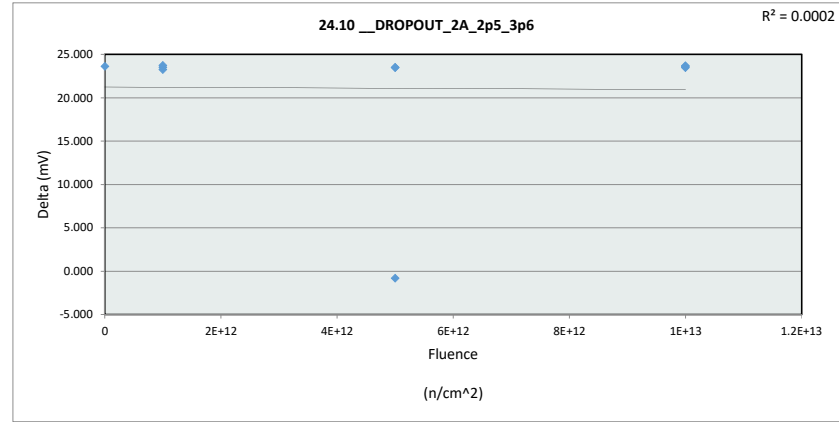
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	65.342	64.978	64.729	64.679
Average	65.342	65.441	65.267	64.878
Max	65.342	65.701	65.573	65.157
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

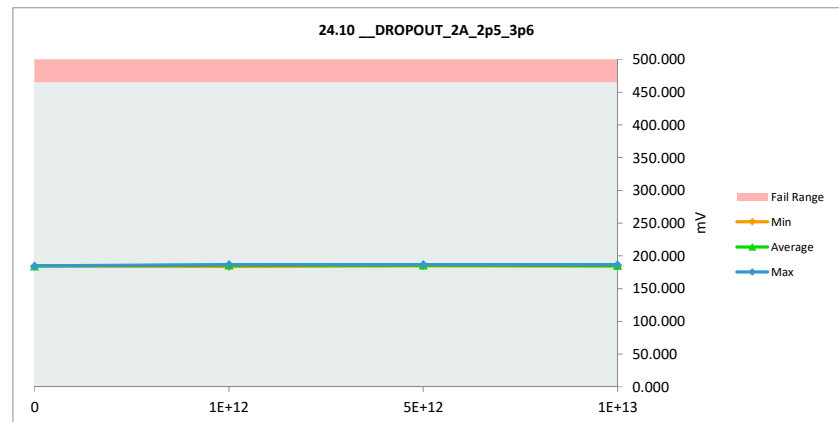
24.10_DROPOUT_2A_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	465
Min Limit	465

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	160.981	184.585	23.604
1E+12	2	162.896	186.639	23.744
1E+12	3	163.429	186.667	23.238
1E+12	4	160.474	183.977	23.503
5E+12	5	161.273	184.790	23.518
5E+12	6	163.402	186.878	23.476
5E+12	7	185.957	185.136	-0.821
1E+13	8	160.385	184.061	23.675
1E+13	9	162.884	186.342	23.458
1E+13	10	161.689	185.279	23.589
	Max	185.957	186.878	23.744
	Average	164.337	185.435	21.098
	Min	160.385	183.977	-0.821
	Std Dev	7.685	1.112	7.703



24.10_DROPOUT_2A_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	465
Min Limit	mV

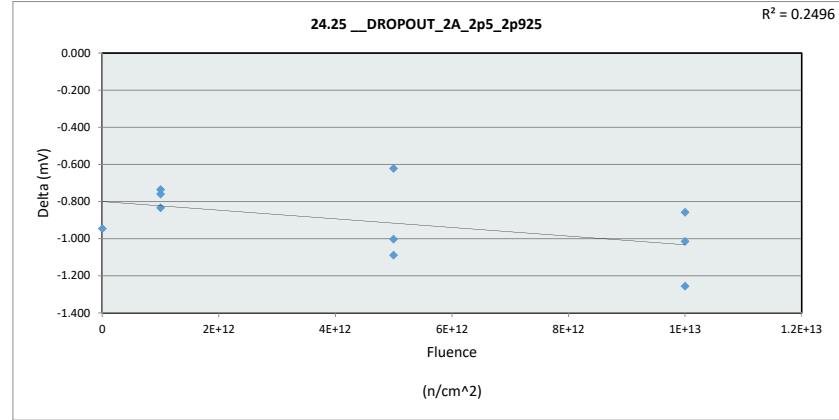
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	184.585	183.977	184.791	184.061
Average	184.585	185.761	185.601	185.227
Max	184.585	186.667	186.878	186.342
UL	465.000	465.000	465.000	465.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

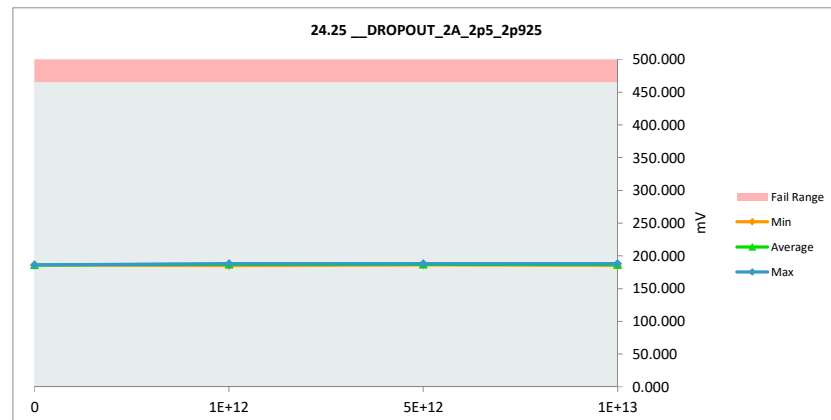
24.25_DROPOUT_2A_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	465
Min Limit	465

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	187.185	186.239	-0.946
1E+12	2	188.975	188.240	-0.735
1E+12	3	189.154	188.395	-0.759
1E+12	4	186.200	185.366	-0.833
5E+12	5	187.081	186.460	-0.622
5E+12	6	189.214	188.211	-1.003
5E+12	7	187.951	186.862	-1.089
1E+13	8	186.718	185.462	-1.256
1E+13	9	188.973	188.115	-0.857
1E+13	10	187.698	186.683	-1.015
	Max	189.214	188.395	-0.622
	Average	187.915	187.003	-0.912
	Min	186.200	185.366	-1.256
	Std Dev	1.111	1.165	0.188



24.25_DROPOUT_2A_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	465
Min Limit	465

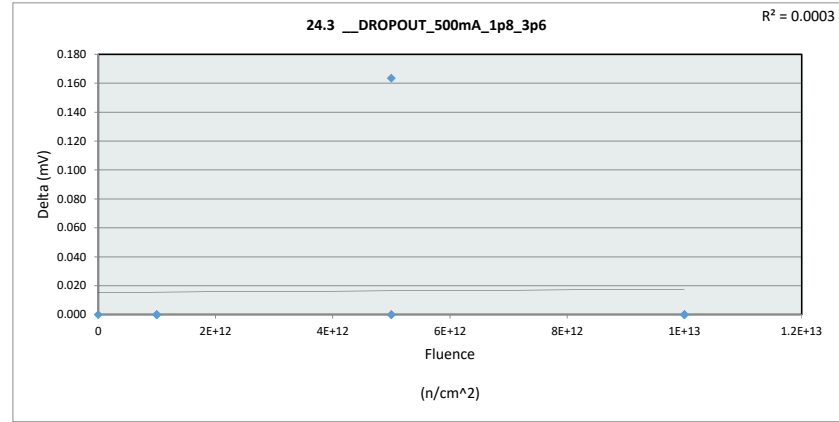
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	186.239	185.366	186.460	185.462
Average	186.239	187.334	187.177	186.754
Max	186.239	188.395	188.211	188.115
UL	465.000	465.000	465.000	465.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

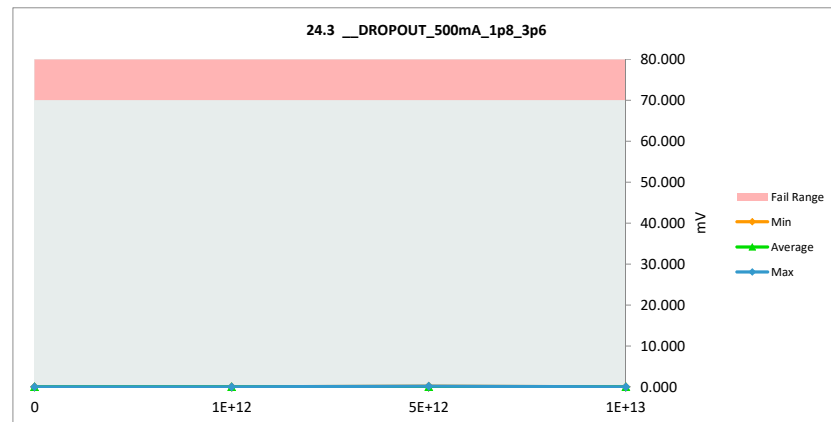
24.3 __DROPOUT_500mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	70 70
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.000	0.000	0.000
1E+12	2	0.000	0.000	0.000
1E+12	3	0.000	0.000	0.000
1E+12	4	0.000	0.000	0.000
5E+12	5	0.000	0.163	0.163
5E+12	6	0.000	0.000	0.000
5E+12	7	0.000	0.000	0.000
1E+13	8	0.000	0.000	0.000
1E+13	9	0.000	0.000	0.000
1E+13	10	0.000	0.000	0.000
Max		0.000	0.163	0.163
Average		0.000	0.016	0.016
Min		0.000	0.000	0.000
Std Dev		0.000	0.052	0.052



24.3 __DROPOUT_500mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	70 mV
Min Limit	mV

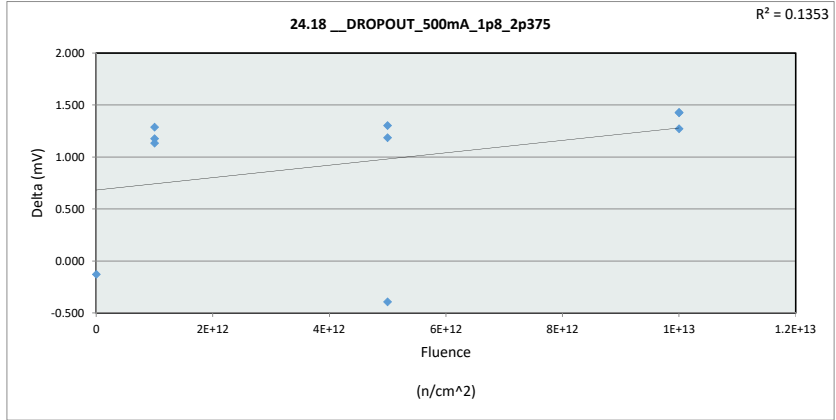
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.000	0.000	0.164	0.000
Average	0.000	0.000	0.055	0.000
Max	0.000	0.000	0.164	0.000
UL	70.000	70.000	70.000	70.000



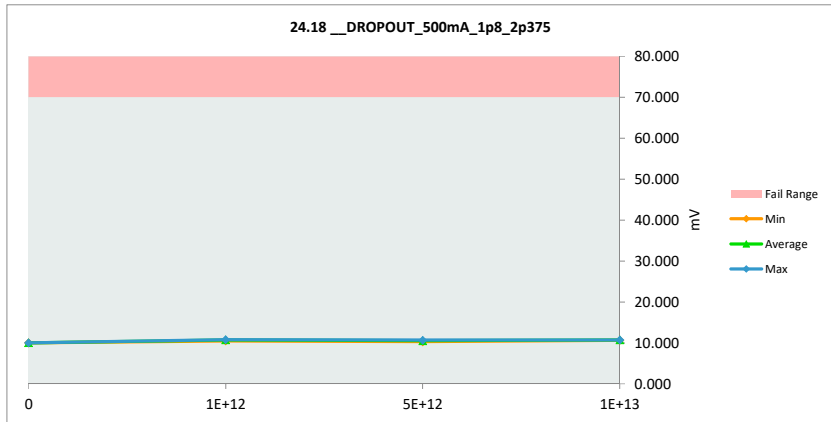
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

24.18 DROPOUT_500mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	70 70
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	10.117	9.989	-0.128
1E+12	2	9.176	10.464	1.288
1E+12	3	9.652	10.786	1.134
1E+12	4	9.662	10.837	1.175
5E+12	5	9.094	10.281	1.187
5E+12	6	9.372	10.675	1.303
5E+12	7	11.008	10.615	-0.393
1E+13	8	9.438	10.712	1.273
1E+13	9	9.262	10.690	1.428
1E+13	10	9.258	10.683	1.426
	Max	11.008	10.837	1.428
	Average	9.604	10.573	0.969
	Min	9.094	9.989	-0.393
	Std Dev	0.577	0.260	0.658



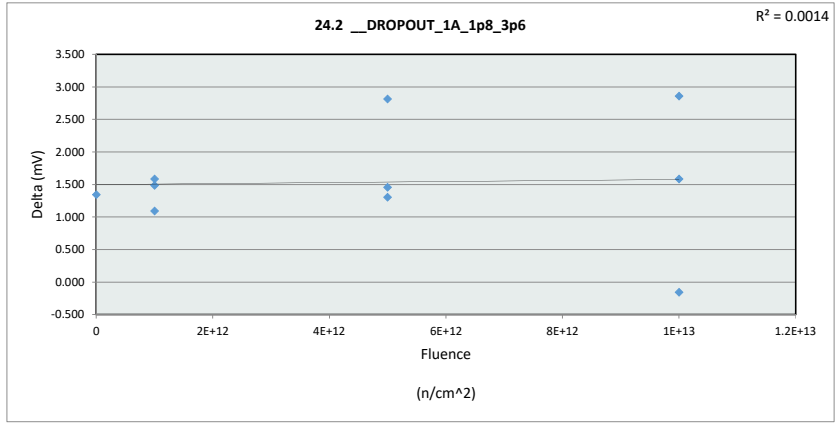
24.18 DROPOUT_500mA_1p8_2p375				
Test Site				
Tester				
Test Number				
Max Limit	70	mV		
Min Limit		mV		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	9.989	10.464	10.281	10.683
Average	9.989	10.696	10.524	10.695
Max	9.989	10.837	10.675	10.712
UL	70.000	70.000	70.000	70.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

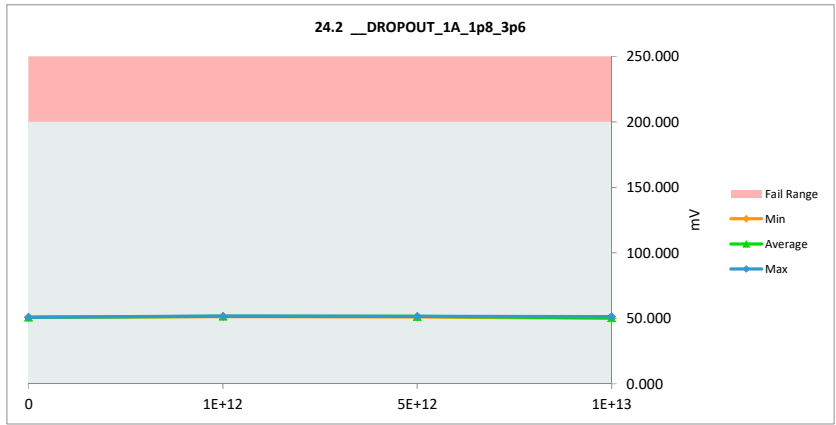
24.2 __DROPOUT_1A_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	200 200
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	49.472	50.814	1.342
1E+12	2	49.887	51.372	1.485
1E+12	3	50.420	51.512	1.092
1E+12	4	50.105	51.688	1.583
5E+12	5	48.306	51.118	2.812
5E+12	6	50.057	51.360	1.303
5E+12	7	50.234	51.690	1.455
1E+13	8	50.189	50.034	-0.155
1E+13	9	48.500	51.357	2.857
1E+13	10	48.538	50.121	1.583
	Max	50.420	51.690	2.857
	Average	49.571	51.107	1.536
	Min	48.306	50.034	-0.155
	Std Dev	0.816	0.601	0.852



24.2 __DROPOUT_1A_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	200 mV
Min Limit	mV

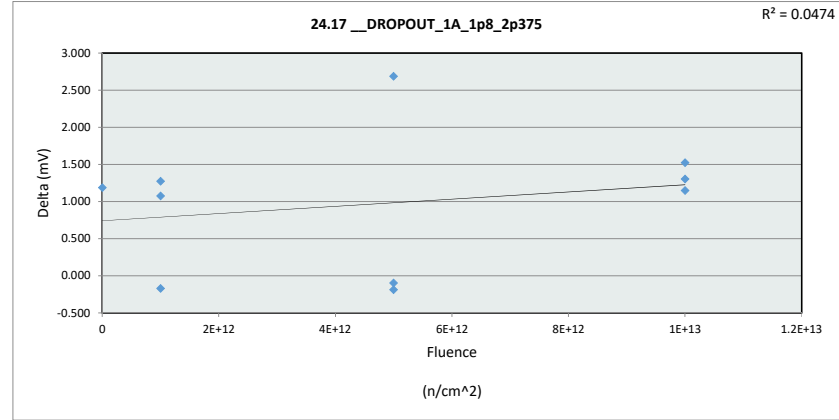
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	50.814	51.372	51.118	50.034
Average	50.814	51.524	51.389	50.504
Max	50.814	51.689	51.690	51.357
UL	200.000	200.000	200.000	200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

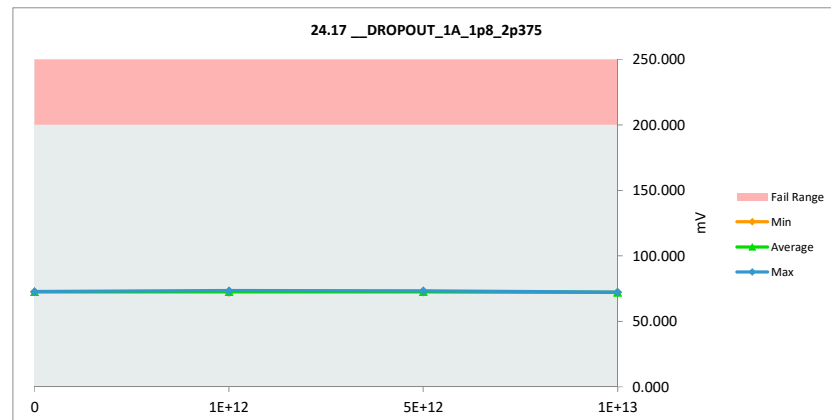
24.17_DROPOUT_1A_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	200
Min Limit	200

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	71.520	72.710	1.190
1E+12	2	72.206	73.479	1.274
1E+12	3	72.414	72.244	-0.170
1E+12	4	71.120	72.198	1.077
5E+12	5	70.595	73.282	2.687
5E+12	6	72.485	72.387	-0.098
5E+12	7	72.511	72.327	-0.185
1E+13	8	71.007	72.311	1.303
1E+13	9	70.596	72.119	1.524
1E+13	10	70.970	72.118	1.149
	Max	72.511	73.479	2.687
	Average	71.542	72.517	0.975
	Min	70.595	72.118	-0.185
	Std Dev	0.790	0.487	0.902



24.17_DROPOUT_1A_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	200
Min Limit	mV

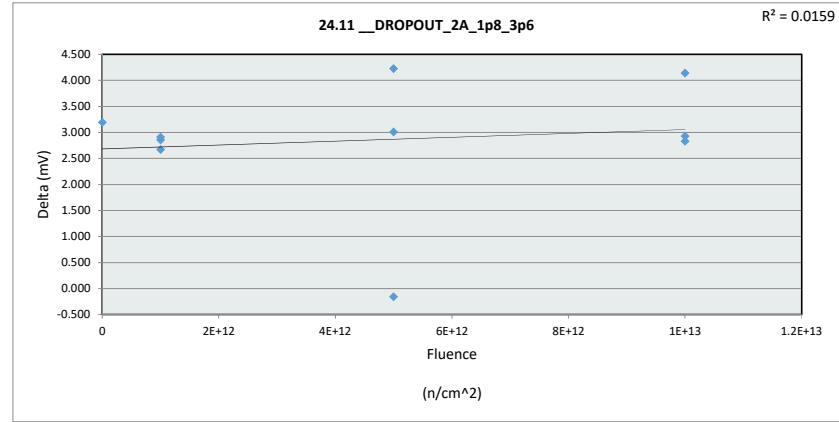
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	72.710	72.198	72.327	72.118
Average	72.710	72.640	72.665	72.183
Max	72.710	73.479	73.282	72.311
UL	200.000	200.000	200.000	200.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

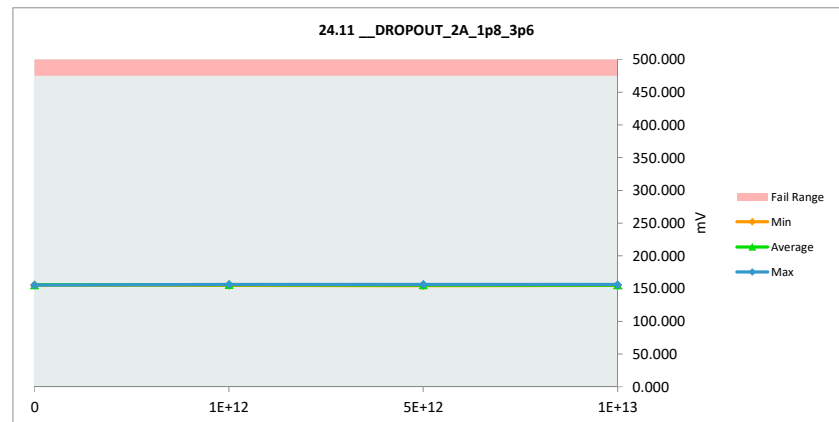
24.11_DROPOUT_2A_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	475 475
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	152.529	155.725	3.196
1E+12	2	153.301	156.155	2.854
1E+12	3	153.748	156.658	2.910
1E+12	4	152.314	154.987	2.672
5E+12	5	150.458	154.684	4.226
5E+12	6	153.426	156.435	3.009
5E+12	7	155.062	154.904	-0.158
1E+13	8	152.142	154.972	2.830
1E+13	9	152.084	156.224	4.139
1E+13	10	152.021	154.949	2.928
	Max	155.062	156.658	4.226
	Average	152.709	155.569	2.861
	Min	150.458	154.684	-0.158
	Std Dev	1.244	0.748	1.192



24.11_DROPOUT_2A_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	475 mV
Min Limit	mV

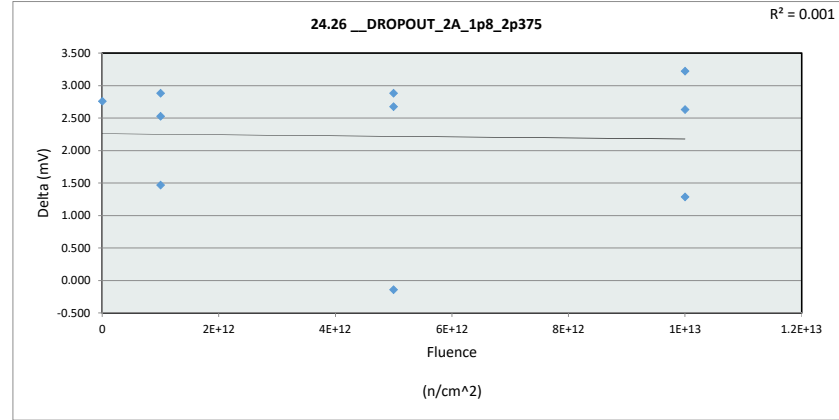
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	155.725	154.987	154.684	154.949
Average	155.725	155.934	155.341	155.382
Max	155.725	156.659	156.435	156.224
UL	475.000	475.000	475.000	475.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

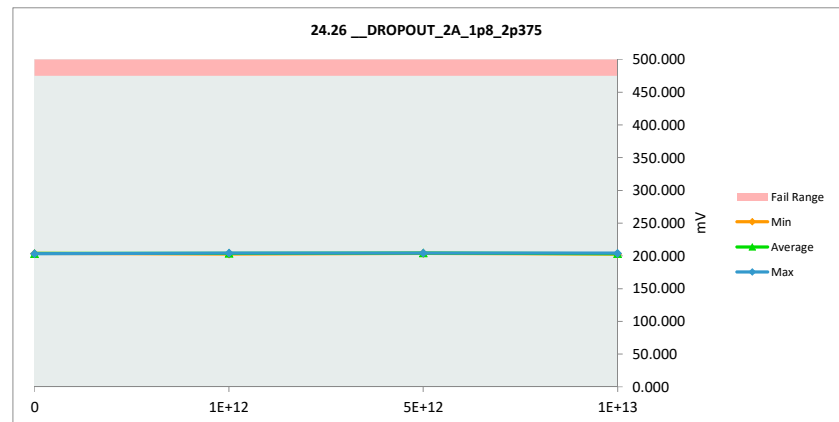
24.26 DROPOUT_2A_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	475
Min Limit	475

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	200.728	203.487	2.758
1E+12	2	202.756	204.226	1.470
1E+12	3	201.694	204.574	2.881
1E+12	4	200.189	202.719	2.529
5E+12	5	201.160	204.043	2.884
5E+12	6	201.608	204.283	2.675
5E+12	7	204.517	204.377	-0.140
1E+13	8	201.519	202.805	1.285
1E+13	9	199.816	203.039	3.223
1E+13	10	201.479	204.109	2.630
	Max	204.517	204.574	3.223
	Average	201.547	203.766	2.220
	Min	199.816	202.719	-0.140
	Std Dev	1.332	0.694	1.035



24.26 DROPOUT_2A_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	475
Min Limit	mV

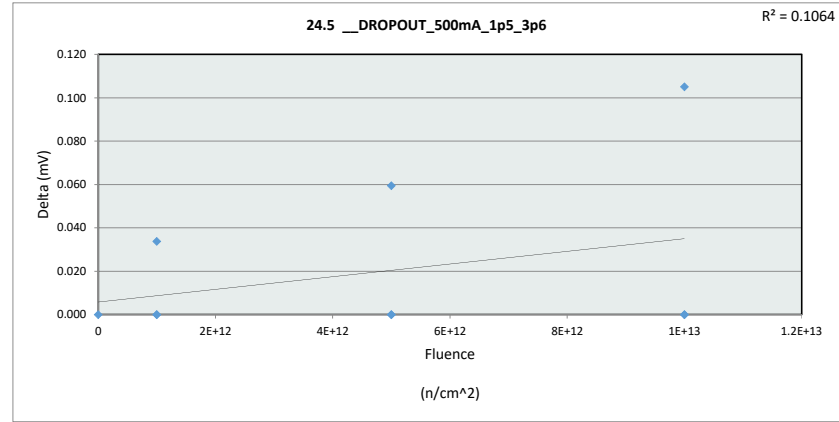
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	203.487	202.719	204.043	202.805
Average	203.487	203.840	204.234	203.317
Max	203.487	204.575	204.377	204.109
UL	475.000	475.000	475.000	475.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

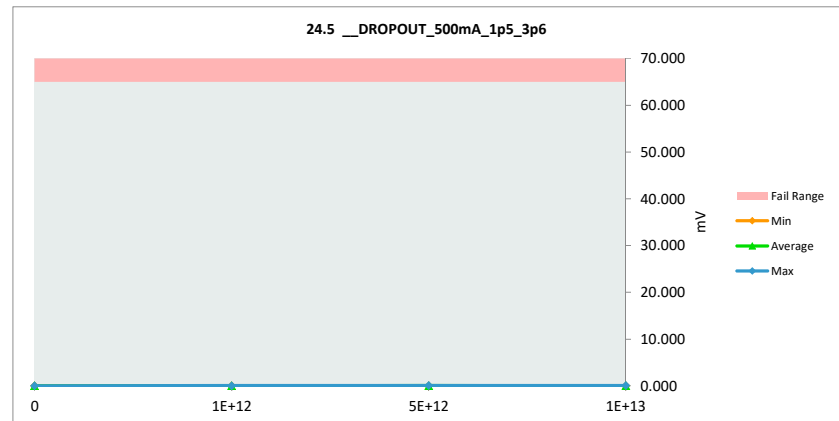
24.5 __DROPOUT_500mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	65 65
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.000	0.000	0.000
1E+12	2	0.000	0.000	0.000
1E+12	3	0.000	0.034	0.034
1E+12	4	0.000	0.000	0.000
5E+12	5	0.000	0.000	0.000
5E+12	6	0.000	0.000	0.000
5E+12	7	0.000	0.059	0.059
1E+13	8	0.000	0.000	0.000
1E+13	9	0.000	0.105	0.105
1E+13	10	0.000	0.000	0.000
Max		0.000	0.105	0.105
Average		0.000	0.020	0.020
Min		0.000	0.000	0.000
Std Dev		0.000	0.036	0.036



24.5 __DROPOUT_500mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	65 mV
Min Limit	mV

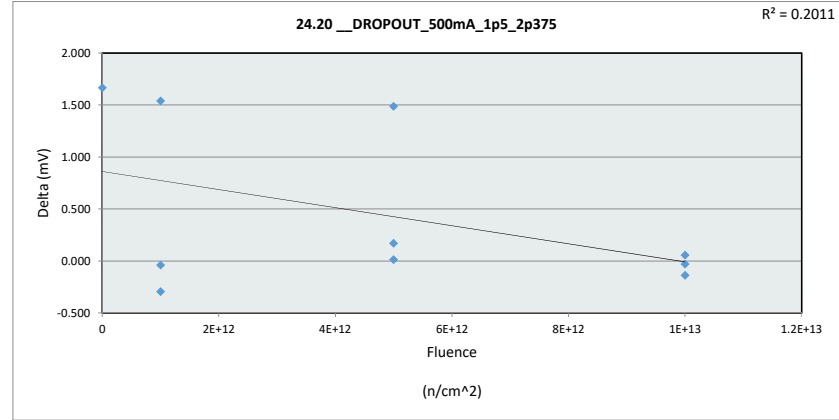
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.000	0.000	0.000	0.000
Average	0.000	0.011	0.020	0.035
Max	0.000	0.034	0.059	0.105
UL	65.000	65.000	65.000	65.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

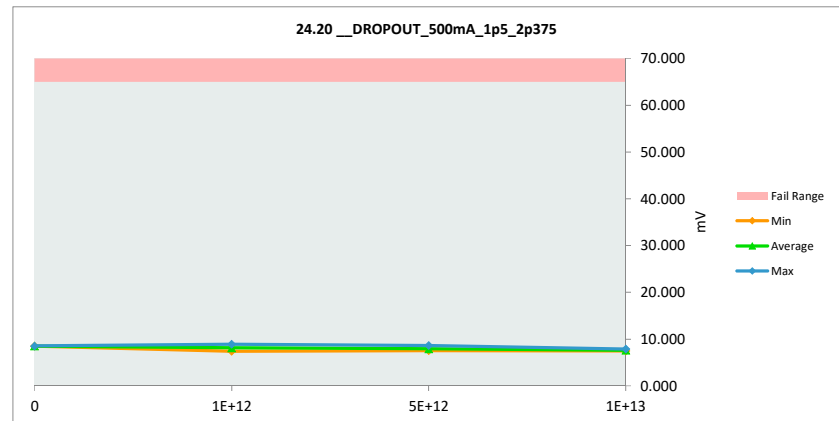
24.20 DROPOUT_500mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	65 65
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.858	8.525	1.667
1E+12	2	7.402	8.940	1.539
1E+12	3	7.720	7.426	-0.295
1E+12	4	8.025	7.986	-0.039
5E+12	5	7.148	8.635	1.488
5E+12	6	7.369	7.539	0.169
5E+12	7	7.496	7.508	0.012
1E+13	8	7.801	7.858	0.056
1E+13	9	7.470	7.440	-0.030
1E+13	10	7.704	7.567	-0.137
	Max	8.025	8.940	1.667
	Average	7.499	7.942	0.443
	Min	6.858	7.426	-0.295
	Std Dev	0.337	0.561	0.784



24.20 DROPOUT_500mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	65 mV
Min Limit	mV

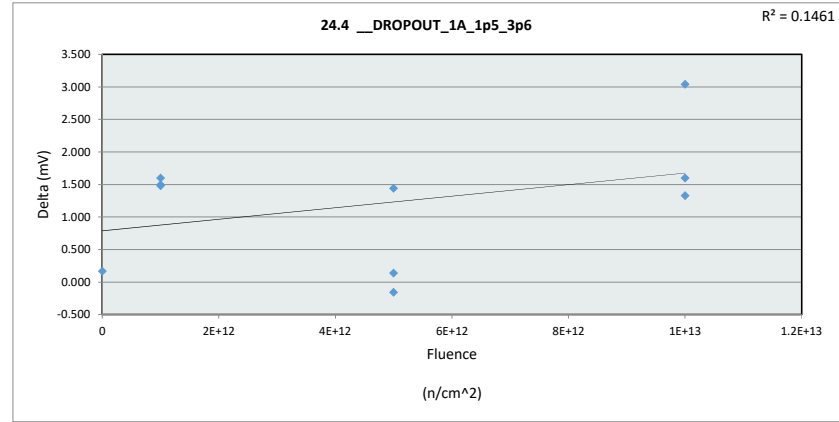
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	8.525	7.426	7.508	7.440
Average	8.525	8.117	7.894	7.622
Max	8.525	8.940	8.635	7.858
UL	65.000	65.000	65.000	65.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

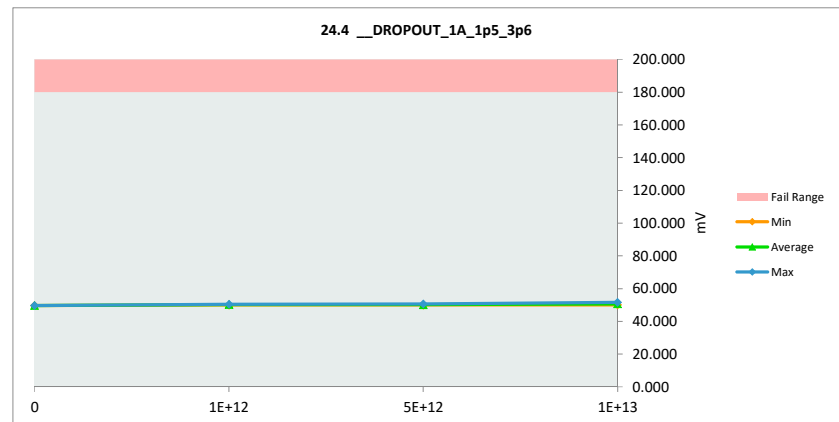
24.4 __DROPOUT_1A_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	49.519	49.686	0.167
1E+12	2	48.408	49.905	1.497
1E+12	3	48.771	50.253	1.482
1E+12	4	48.876	50.477	1.601
5E+12	5	48.451	49.892	1.440
5E+12	6	50.161	50.003	-0.158
5E+12	7	50.436	50.576	0.140
1E+13	8	48.909	50.507	1.598
1E+13	9	48.575	51.616	3.041
1E+13	10	48.838	50.168	1.330
Max		50.436	51.616	3.041
Average		49.094	50.308	1.214
Min		48.408	49.686	-0.158
Std Dev		0.709	0.547	0.942



24.4 __DROPOUT_1A_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	

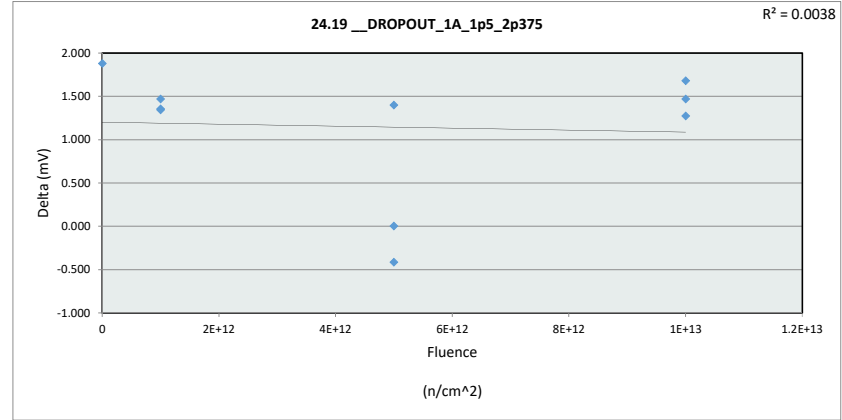
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	49.686	49.905	49.892	50.169
Average	49.686	50.212	50.157	50.764
Max	49.686	50.477	50.576	51.616
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

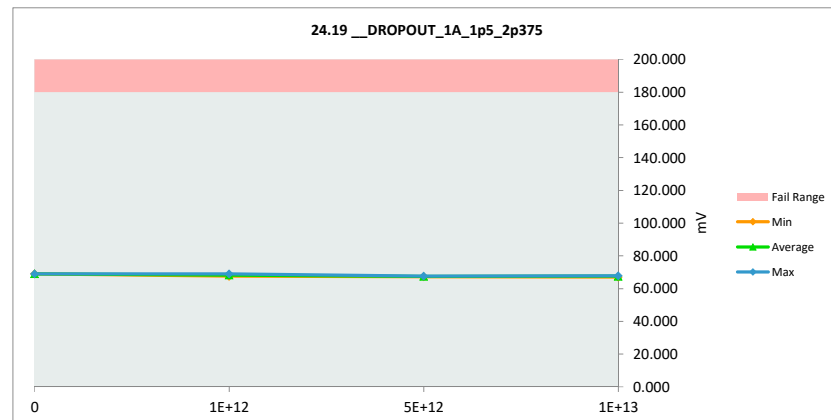
24.19 DROPOUT_1A_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	180
Min Limit	180

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	67.112	68.993	1.881
1E+12	2	67.602	68.959	1.357
1E+12	3	66.209	67.554	1.345
1E+12	4	66.546	68.016	1.470
5E+12	5	65.809	67.211	1.402
5E+12	6	67.617	67.203	-0.413
5E+12	7	67.765	67.767	0.003
1E+13	8	66.377	67.847	1.470
1E+13	9	65.879	67.152	1.274
1E+13	10	65.943	67.624	1.681
	Max	67.765	68.993	1.881
	Average	66.686	67.833	1.147
	Min	65.809	67.152	-0.413
	Std Dev	0.772	0.668	0.741



24.19 DROPOUT_1A_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	180
Min Limit	mV

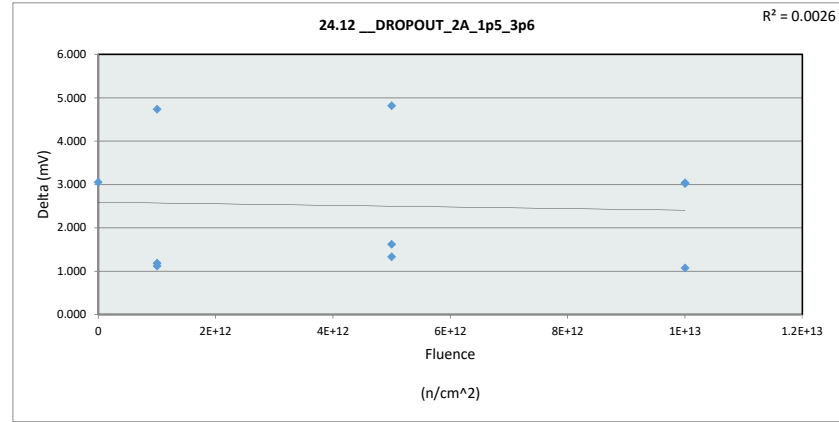
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	68.993	67.554	67.203	67.152
Average	68.993	68.176	67.394	67.541
Max	68.993	68.959	67.767	67.847
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

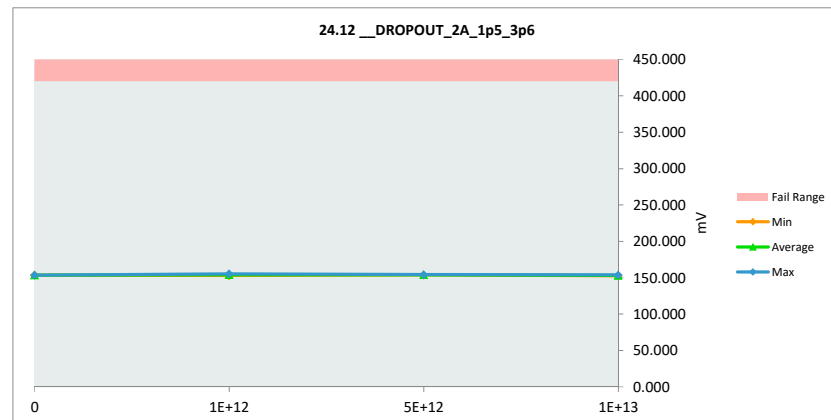
24.12_DROPOUT_2A_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	420 420
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	150.327	153.380	3.053
1E+12	2	150.632	155.366	4.734
1E+12	3	152.944	154.063	1.119
1E+12	4	151.639	152.826	1.187
5E+12	5	148.994	153.812	4.818
5E+12	6	152.495	153.828	1.333
5E+12	7	152.521	154.145	1.625
1E+13	8	151.654	152.731	1.077
1E+13	9	150.772	153.798	3.026
1E+13	10	149.479	152.521	3.041
Max		152.944	155.366	4.818
Average		151.146	153.647	2.501
Min		148.994	152.521	1.077
Std Dev		1.330	0.838	1.454



24.12_DROPOUT_2A_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	420 mV
Min Limit	

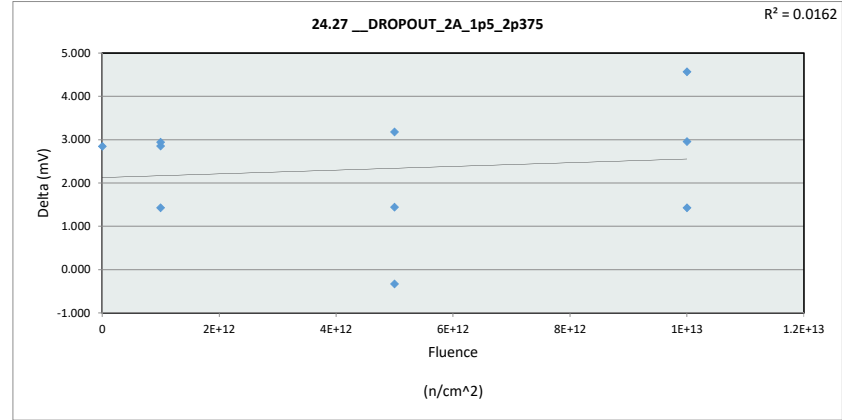
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	153.380	152.826	153.812	152.521
Average	153.380	154.085	153.928	153.017
Max	153.380	155.366	154.145	153.798
UL	420.000	420.000	420.000	420.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

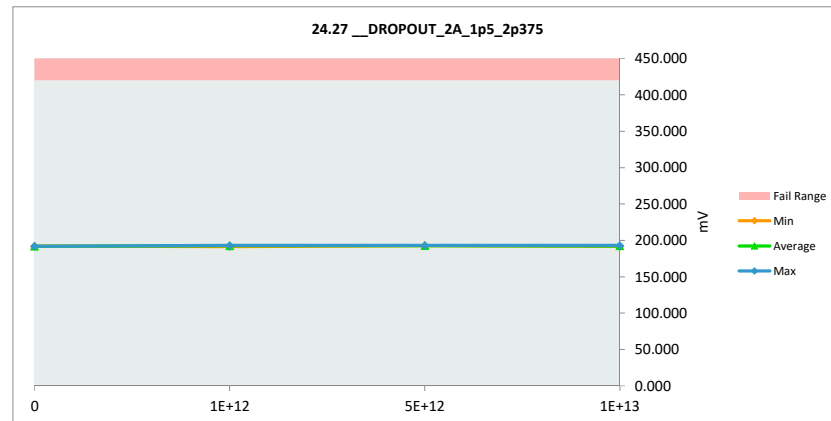
24.27 __DROPOUT_2A_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	420 420
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	189.069	191.913	2.845
1E+12	2	191.240	192.668	1.428
1E+12	3	190.005	192.945	2.940
1E+12	4	188.613	191.470	2.857
5E+12	5	189.390	192.571	3.181
5E+12	6	191.225	192.665	1.441
5E+12	7	193.116	192.789	-0.327
1E+13	8	190.056	191.484	1.428
1E+13	9	187.865	192.430	4.565
1E+13	10	189.905	192.860	2.955
	Max	193.116	192.945	4.565
	Average	190.048	192.380	2.331
	Min	187.865	191.470	-0.327
	Std Dev	1.508	0.555	1.354



24.27 __DROPOUT_2A_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	420 mV
Min Limit	

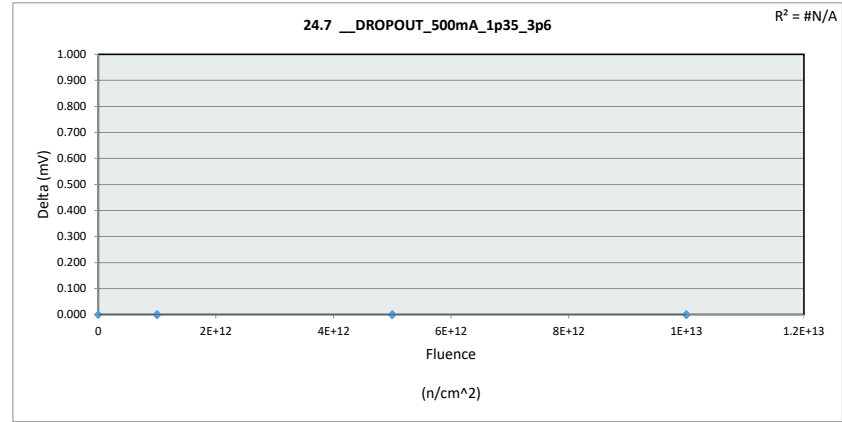
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	191.913	191.470	192.571	191.485
Average	191.913	192.361	192.675	192.258
Max	191.913	192.945	192.789	192.860
UL	420.000	420.000	420.000	420.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

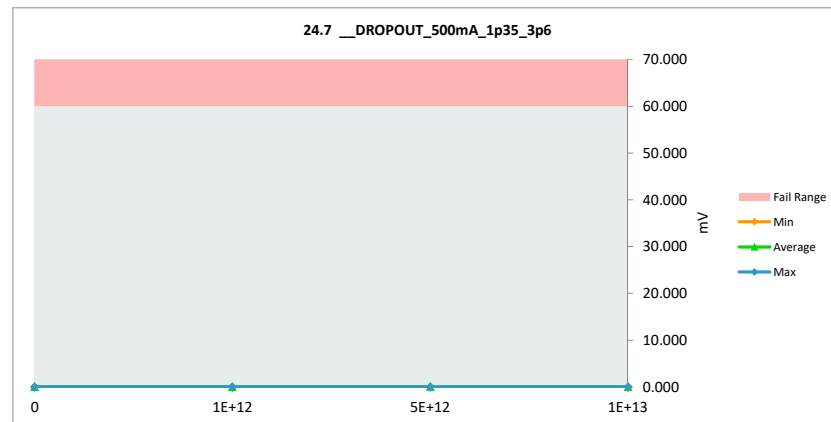
24.7 __DROPOUT_500mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	60 60
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.000	0.000	0.000
1E+12	2	0.000	0.000	0.000
1E+12	3	0.000	0.000	0.000
1E+12	4	0.000	0.000	0.000
5E+12	5	0.000	0.000	0.000
5E+12	6	0.000	0.000	0.000
5E+12	7	0.000	0.000	0.000
1E+13	8	0.000	0.000	0.000
1E+13	9	0.000	0.000	0.000
1E+13	10	0.000	0.000	0.000
Max		0.000	0.000	0.000
Average		0.000	0.000	0.000
Min		0.000	0.000	0.000
Std Dev		0.000	0.000	0.000



24.7 __DROPOUT_500mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	60 mV
Min Limit	mV

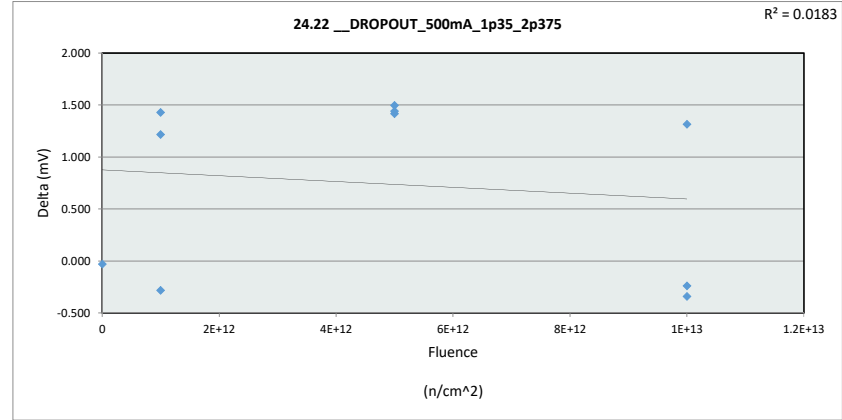
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000
UL	60.000	60.000	60.000	60.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

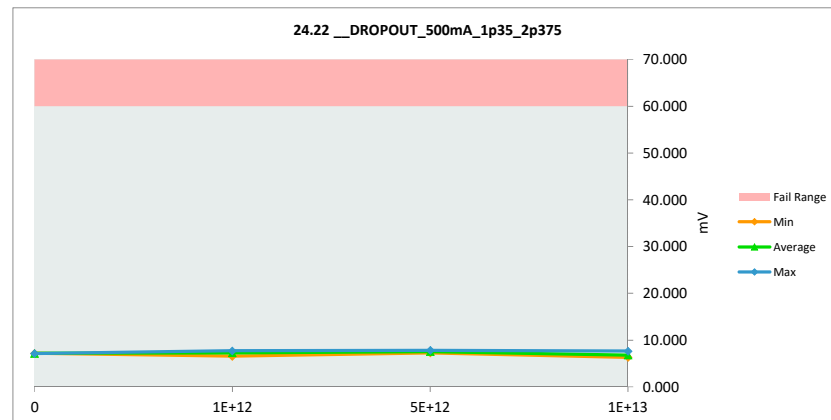
24.22 DROPOUT_500mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	60 60
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.184	7.154	-0.030
1E+12	2	6.076	7.504	1.428
1E+12	3	6.466	7.683	1.217
1E+12	4	6.812	6.529	-0.283
5E+12	5	5.863	7.280	1.416
5E+12	6	6.117	7.614	1.497
5E+12	7	6.381	7.821	1.440
1E+13	8	6.645	6.306	-0.339
1E+13	9	6.314	7.629	1.315
1E+13	10	6.578	6.340	-0.238
	Max	7.184	7.821	1.497
	Average	6.444	7.186	0.742
	Min	5.863	6.306	-0.339
	Std Dev	0.386	0.583	0.838



24.22 DROPOUT_500mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	60 mV
Min Limit	mV

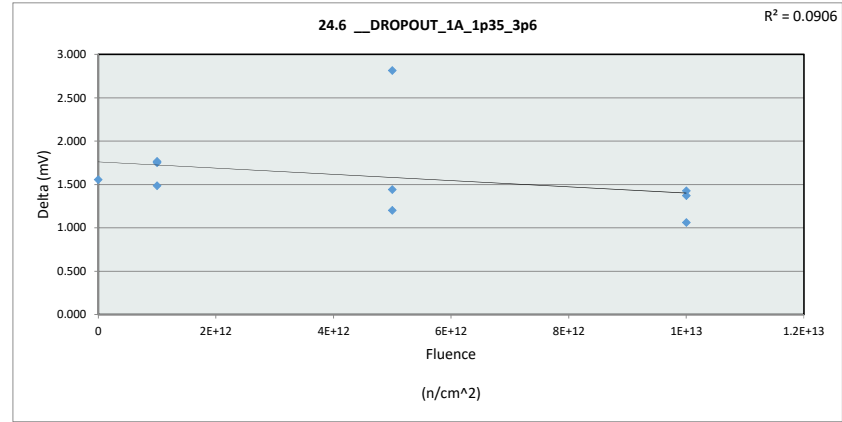
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	7.154	6.529	7.280	6.306
Average	7.154	7.239	7.572	6.758
Max	7.154	7.683	7.822	7.629
UL	60.000	60.000	60.000	60.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

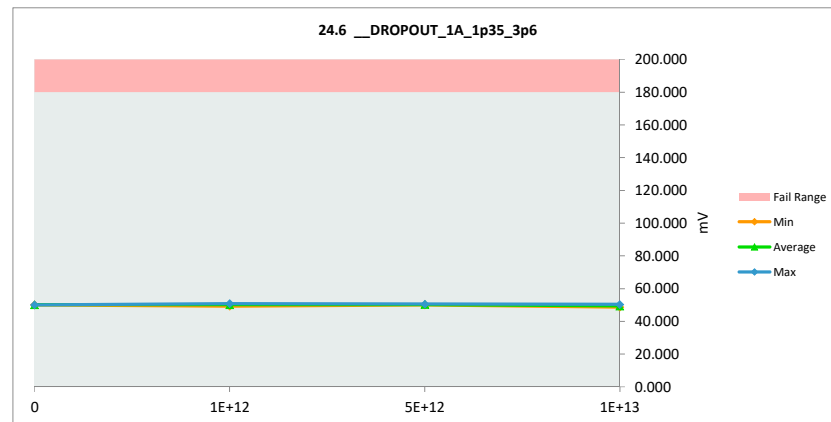
24.6 __DROPOUT_1A_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	48.586	50.143	1.556
1E+12	2	48.528	50.278	1.750
1E+12	3	49.085	50.849	1.765
1E+12	4	47.818	49.303	1.485
5E+12	5	47.238	50.053	2.815
5E+12	6	49.031	50.472	1.440
5E+12	7	49.352	50.554	1.202
1E+13	8	47.666	49.038	1.372
1E+13	9	48.948	50.376	1.428
1E+13	10	47.727	48.789	1.062
	Max	49.352	50.849	2.815
	Average	48.398	49.985	1.588
	Min	47.238	48.789	1.062
	Std Dev	0.731	0.697	0.482



24.6 __DROPOUT_1A_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	mV

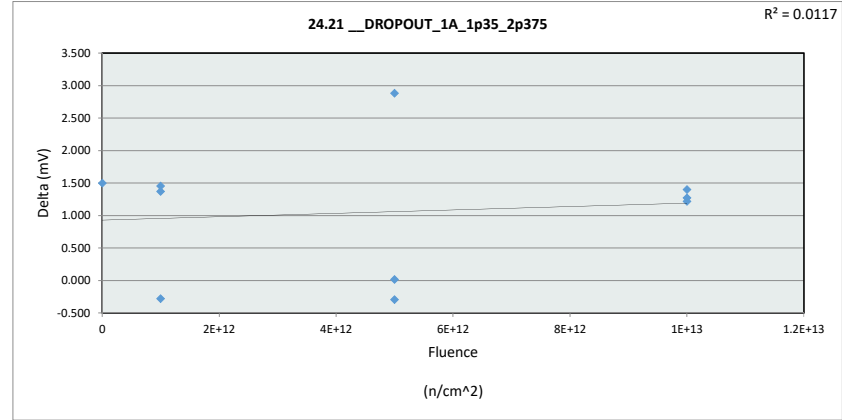
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	50.143	49.303	50.053	48.789
Average	50.143	50.143	50.360	49.401
Max	50.143	50.850	50.554	50.376
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

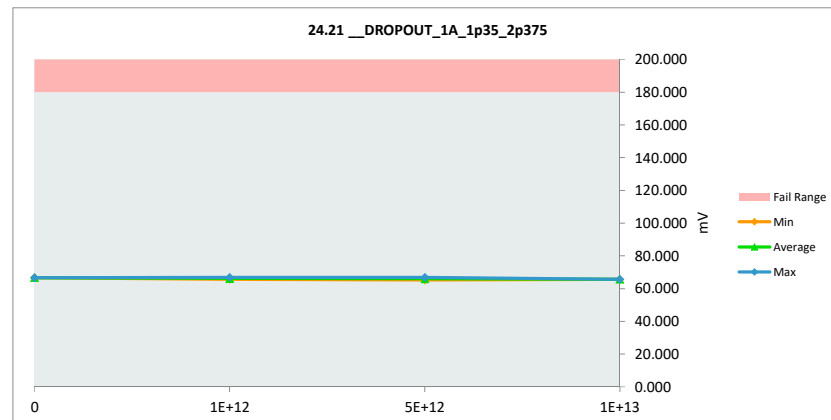
24.21 DROPOUT_1A_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	65.194	66.694	1.500
1E+12	2	65.484	66.939	1.455
1E+12	3	65.987	65.708	-0.280
1E+12	4	64.596	65.967	1.372
5E+12	5	63.947	66.828	2.881
5E+12	6	65.708	65.413	-0.295
5E+12	7	65.703	65.718	0.015
1E+13	8	64.399	65.673	1.274
1E+13	9	64.142	65.541	1.399
1E+13	10	64.475	65.691	1.217
	Max	65.987	66.939	2.881
	Average	64.964	66.017	1.054
	Min	63.947	65.413	-0.295
	Std Dev	0.736	0.575	0.981



24.21 DROPOUT_1A_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	mV

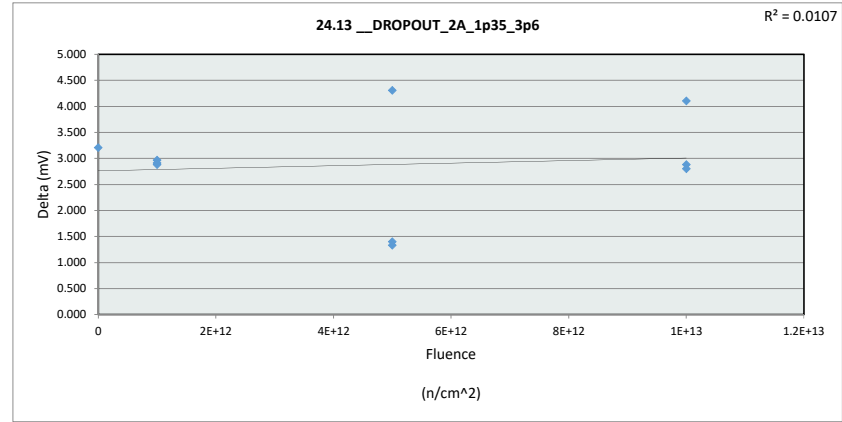
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	66.694	65.708	65.413	65.541
Average	66.694	66.205	65.987	65.635
Max	66.694	66.940	66.828	65.692
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

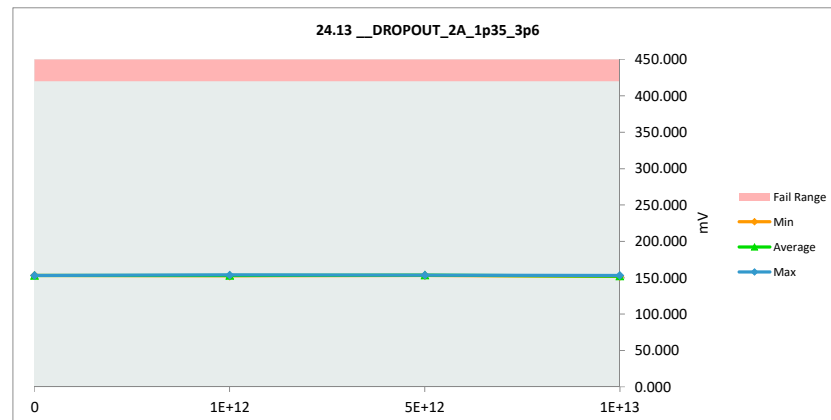
24.13 DROPOUT_2A_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	420 420
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	149.867	153.072	3.205
1E+12	2	150.410	153.294	2.883
1E+12	3	150.687	153.600	2.913
1E+12	4	149.307	152.277	2.970
5E+12	5	148.689	152.995	4.306
5E+12	6	152.118	153.448	1.330
5E+12	7	152.311	153.709	1.399
1E+13	8	149.212	152.095	2.883
1E+13	9	149.020	153.124	4.103
1E+13	10	149.046	151.846	2.800
	Max	152.311	153.709	4.306
	Average	150.067	152.946	2.879
	Min	148.689	151.846	1.330
	Std Dev	1.297	0.651	0.957



24.13 DROPOUT_2A_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	420 mV
Min Limit	mV

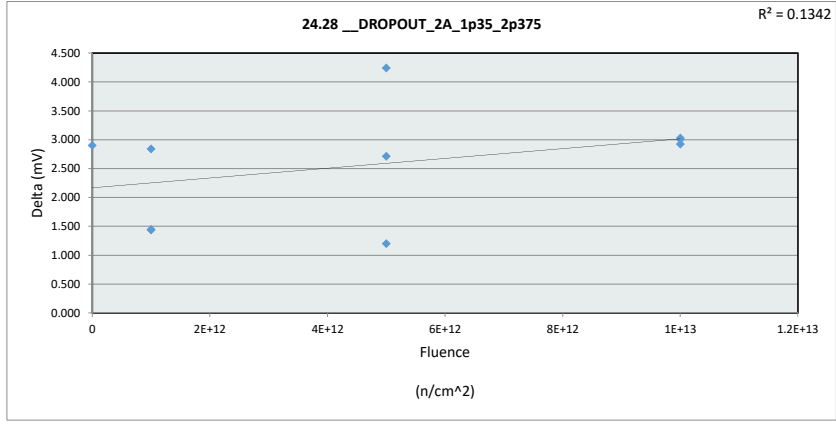
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	153.072	152.277	152.995	151.846
Average	153.072	153.057	153.384	152.355
Max	153.072	153.600	153.709	153.124
UL	420.000	420.000	420.000	420.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

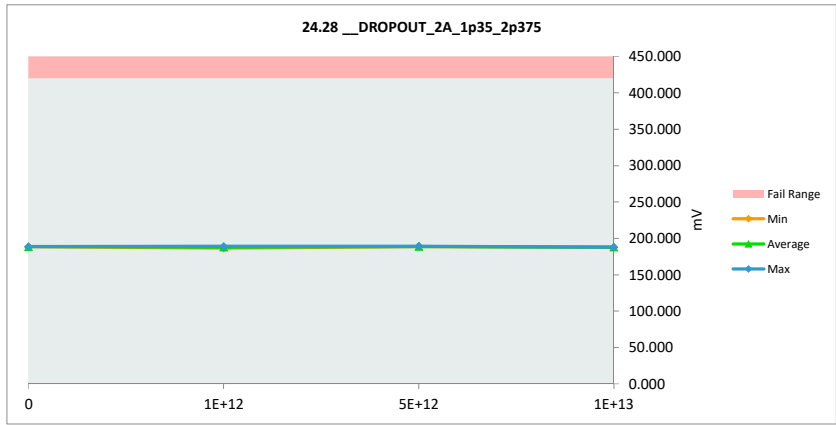
24.28 DROPOUT_2A_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	420 420
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	185.568	188.469	2.901
1E+12	2	186.045	188.884	2.839
1E+12	3	186.349	187.792	1.443
1E+12	4	184.927	186.368	1.440
5E+12	5	184.389	188.633	4.243
5E+12	6	186.238	188.952	2.714
5E+12	7	187.833	189.032	1.199
1E+13	8	184.903	187.912	3.009
1E+13	9	184.459	187.485	3.026
1E+13	10	184.821	187.746	2.925
Max		187.833	189.032	4.243
Average		185.553	188.127	2.574
Min		184.389	186.368	1.199
Std Dev		1.077	0.834	0.940



24.28 DROPOUT_2A_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	420 mV
Min Limit	

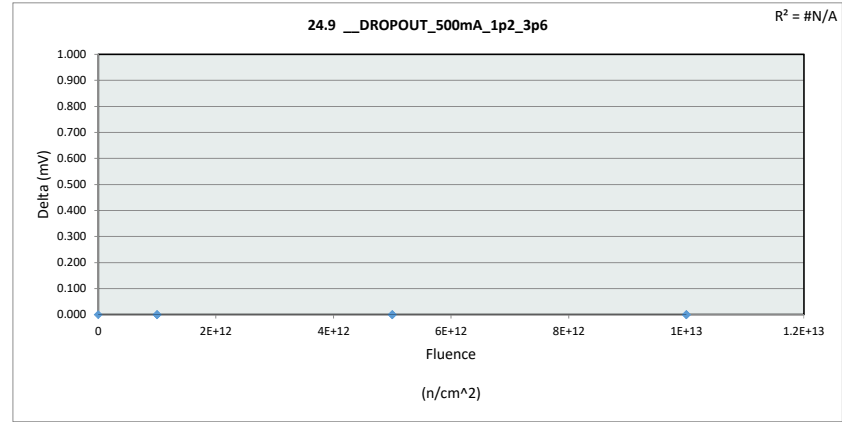
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	188.469	186.368	188.633	187.485
Average	188.469	187.681	188.872	187.715
Max	188.469	188.884	189.032	187.912
UL	420.000	420.000	420.000	420.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

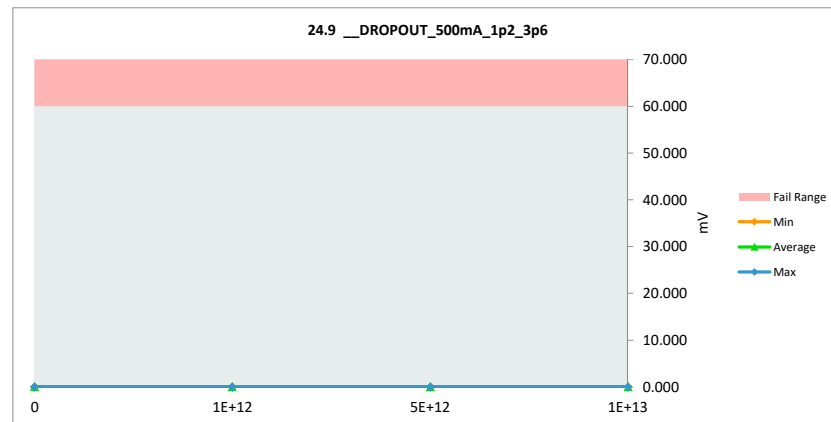
24.9 __DROPOUT_500mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	60 60
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.000	0.000	0.000
1E+12	2	0.000	0.000	0.000
1E+12	3	0.000	0.000	0.000
1E+12	4	0.000	0.000	0.000
5E+12	5	0.000	0.000	0.000
5E+12	6	0.000	0.000	0.000
5E+12	7	0.000	0.000	0.000
1E+13	8	0.000	0.000	0.000
1E+13	9	0.000	0.000	0.000
1E+13	10	0.000	0.000	0.000
Max		0.000	0.000	0.000
Average		0.000	0.000	0.000
Min		0.000	0.000	0.000
Std Dev		0.000	0.000	0.000



24.9 __DROPOUT_500mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	60 mV
Min Limit	mV

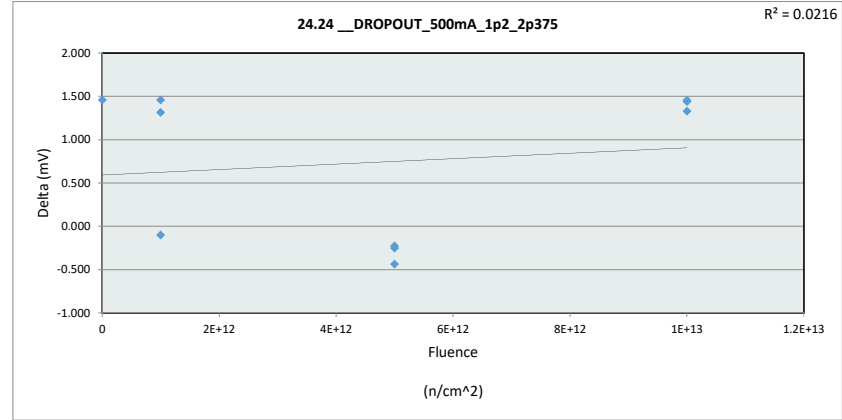
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000
Max	0.000	0.000	0.000	0.000
UL	60.000	60.000	60.000	60.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

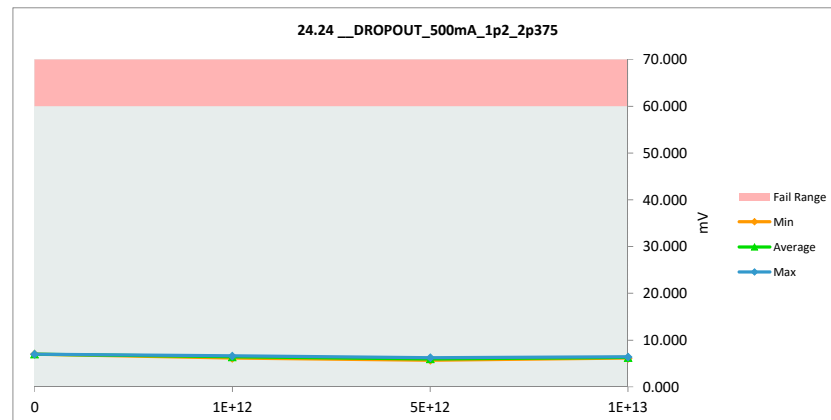
24.24 DROPOUT_500mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	60 60
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	5.561	7.019	1.458
1E+12	2	6.235	6.136	-0.098
1E+12	3	5.295	6.610	1.315
1E+12	4	5.034	6.492	1.458
5E+12	5	5.969	5.716	-0.253
5E+12	6	6.443	6.009	-0.435
5E+12	7	6.442	6.216	-0.226
1E+13	8	5.051	6.381	1.330
1E+13	9	4.666	6.107	1.440
1E+13	10	4.788	6.243	1.455
	Max	6.443	7.019	1.458
	Average	5.548	6.293	0.744
	Min	4.666	5.716	-0.435
	Std Dev	0.682	0.358	0.864



24.24 DROPOUT_500mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	60 mV
Min Limit	mV

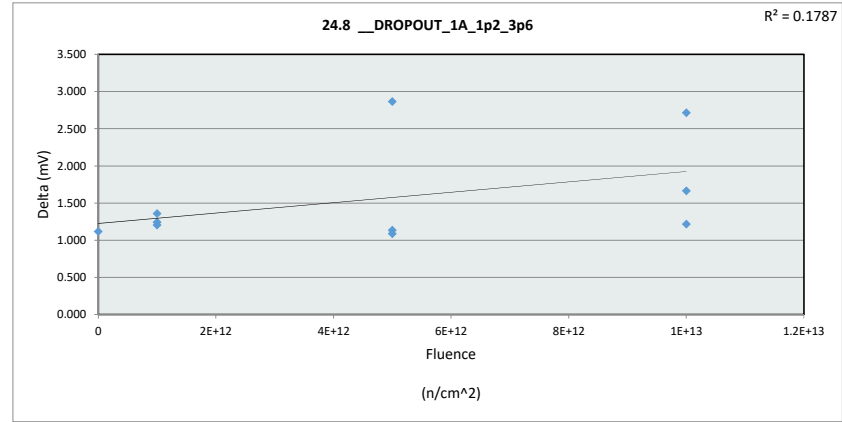
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	7.019	6.137	5.716	6.107
Average	7.019	6.413	5.980	6.244
Max	7.019	6.610	6.216	6.382
UL	60.000	60.000	60.000	60.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

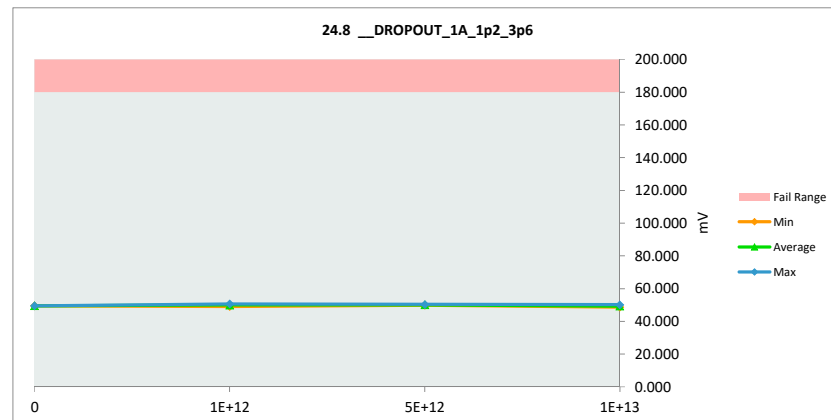
24.8 __DROPOUT_1A_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	48.379	49.495	1.116
1E+12	2	49.021	50.223	1.202
1E+12	3	49.229	50.586	1.357
1E+12	4	47.864	49.108	1.244
5E+12	5	47.046	49.912	2.866
5E+12	6	49.006	50.139	1.134
5E+12	7	49.213	50.302	1.089
1E+13	8	47.403	49.069	1.666
1E+13	9	47.437	50.151	2.714
1E+13	10	47.505	48.722	1.217
	Max	49.229	50.586	2.866
	Average	48.210	49.771	1.560
	Min	47.046	48.722	1.089
	Std Dev	0.855	0.629	0.670



24.8 __DROPOUT_1A_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	mV

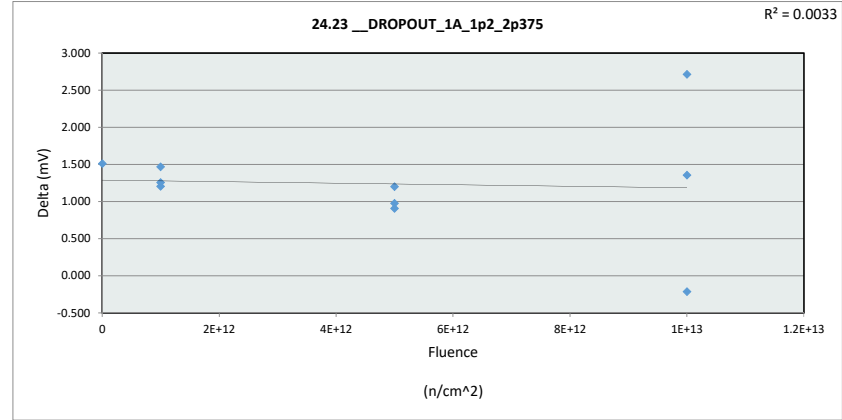
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	49.495	49.108	49.912	48.722
Average	49.495	49.972	50.118	49.314
Max	49.495	50.586	50.302	50.151
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

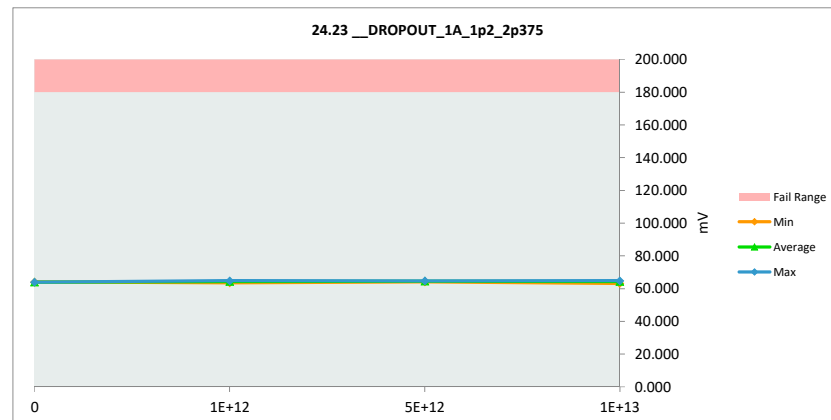
24.23 DROPOUT_1A_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	180 180
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	62.526	64.038	1.512
1E+12	2	63.102	64.569	1.467
1E+12	3	63.504	64.763	1.259
1E+12	4	62.309	63.514	1.205
5E+12	5	63.199	64.175	0.976
5E+12	6	63.605	64.807	1.202
5E+12	7	63.756	64.663	0.908
1E+13	8	63.401	63.189	-0.211
1E+13	9	62.066	64.780	2.714
1E+13	10	63.449	64.806	1.357
	Max	63.756	64.807	2.714
	Average	63.092	64.330	1.239
	Min	62.066	63.189	-0.211
	Std Dev	0.586	0.586	0.715



24.23 DROPOUT_1A_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	180 mV
Min Limit	mV

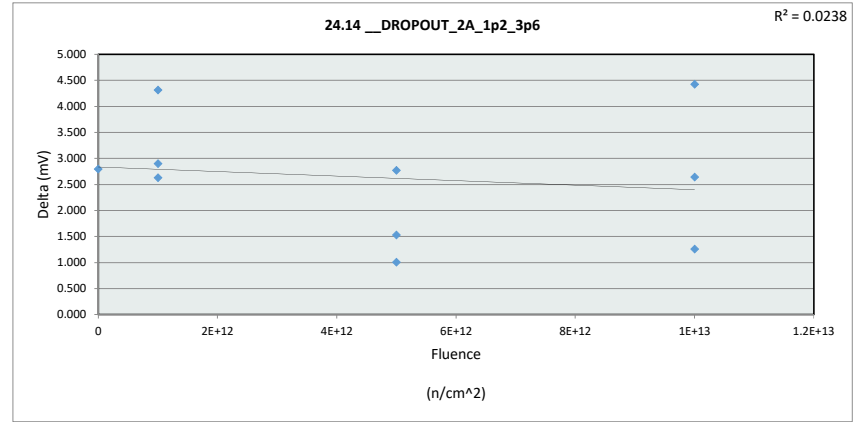
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	64.038	63.514	64.175	63.189
Average	64.038	64.282	64.549	64.259
Max	64.038	64.763	64.807	64.806
UL	180.000	180.000	180.000	180.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

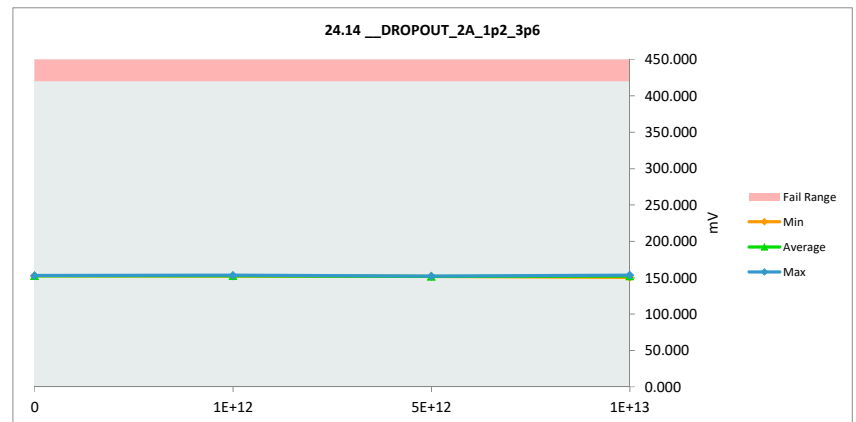
24.14 DROPOUT_2A_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	420 420
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	150.026	152.823	2.797
1E+12	2	149.013	153.324	4.312
1E+12	3	149.334	152.233	2.898
1E+12	4	149.594	152.225	2.630
5E+12	5	148.973	151.743	2.770
5E+12	6	150.608	152.134	1.527
5E+12	7	151.000	152.005	1.006
1E+13	8	149.454	150.713	1.259
1E+13	9	149.040	153.464	4.425
1E+13	10	149.363	152.005	2.643
Max		151.000	153.464	4.425
Average		149.640	152.267	2.627
Min		148.973	150.713	1.006
Std Dev		0.694	0.796	1.150



24.14 DROPOUT_2A_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	420 mV
Min Limit	mV

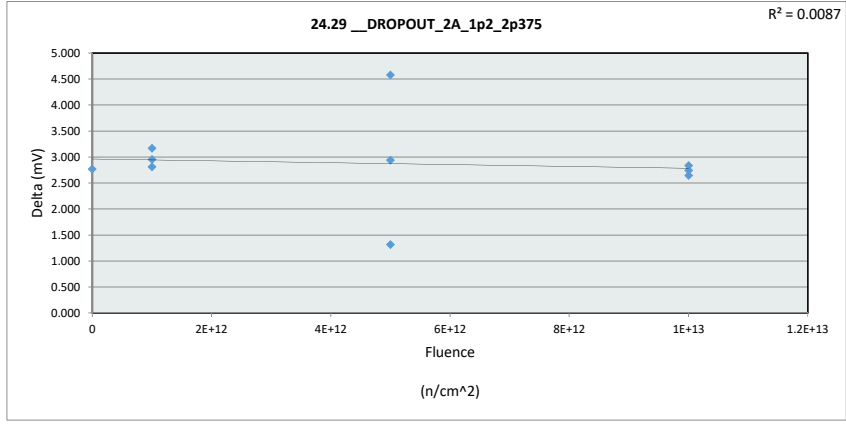
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	152.823	152.225	151.743	150.713
Average	152.823	152.594	151.961	152.061
Max	152.823	153.325	152.134	153.465
UL	420.000	420.000	420.000	420.000



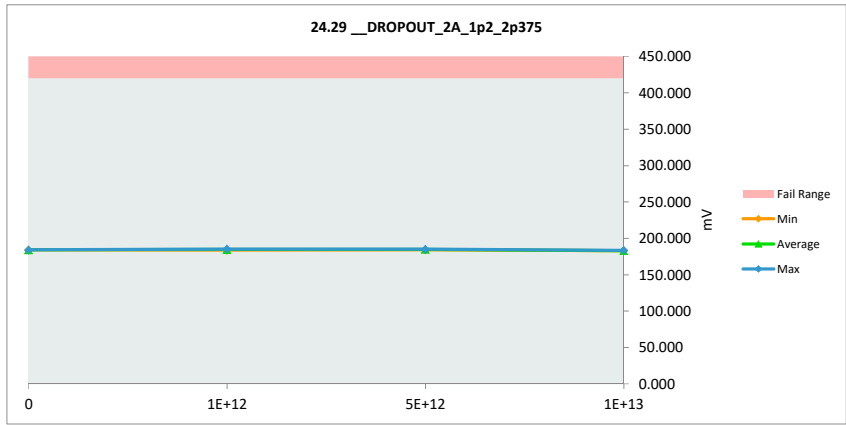
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

24.29_DROPOUT_2A_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	420 420
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	181.245	184.016	2.770
1E+12	2	181.836	184.648	2.812
1E+12	3	181.943	185.109	3.166
1E+12	4	180.622	183.575	2.952
5E+12	5	179.855	184.435	4.580
5E+12	6	181.773	184.716	2.943
5E+12	7	183.593	184.909	1.315
1E+13	8	180.593	183.339	2.746
1E+13	9	180.166	183.005	2.839
1E+13	10	180.567	183.212	2.645
Max		183.593	185.109	4.580
Average		181.219	184.096	2.877
Min		179.855	183.005	1.315
Std Dev		1.105	0.768	0.783



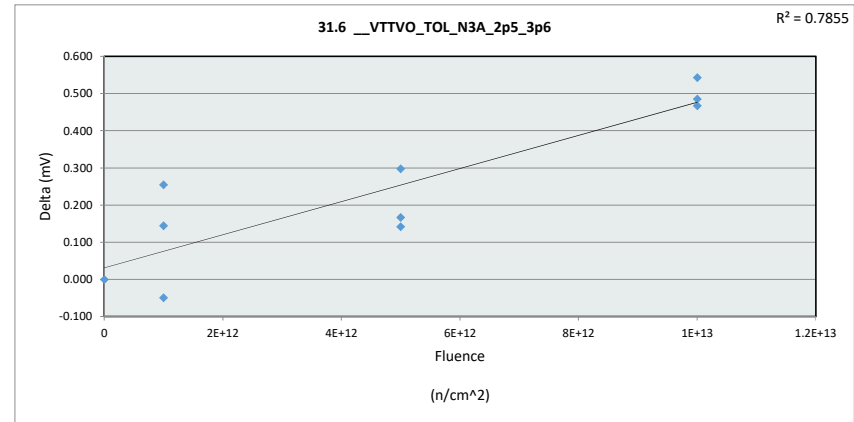
24.29_DROPOUT_2A_1p2_2p375				
Test Site				
Tester				
Test Number				
Max Limit	420 mV			
Min Limit				
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	184.016	183.575	184.435	183.005
Average	184.016	184.444	184.687	183.186
Max	184.016	185.109	184.909	183.339
UL	420.000	420.000	420.000	420.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

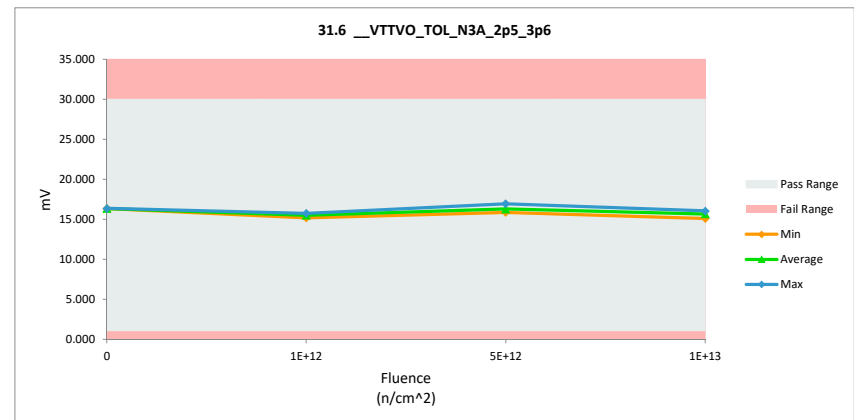
31.6 __ VTTVO_TOL_N3A_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	30 30
Min Limit	1 1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	16.350	16.349	-0.001
1E+12	2	15.599	15.550	-0.050
1E+12	3	15.597	15.741	0.144
1E+12	4	14.913	15.167	0.254
5E+12	5	16.647	16.944	0.297
5E+12	6	15.690	15.856	0.166
5E+12	7	15.868	16.010	0.142
1E+13	8	15.494	16.037	0.543
1E+13	9	14.609	15.094	0.485
1E+13	10	15.361	15.828	0.467
	Max	16.647	16.944	0.543
	Average	15.613	15.858	0.245
	Min	14.609	15.094	-0.050
	Std Dev	0.602	0.542	0.204



31.6 __ VTTVO_TOL_N3A_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	30 mV
Min Limit	1 mV

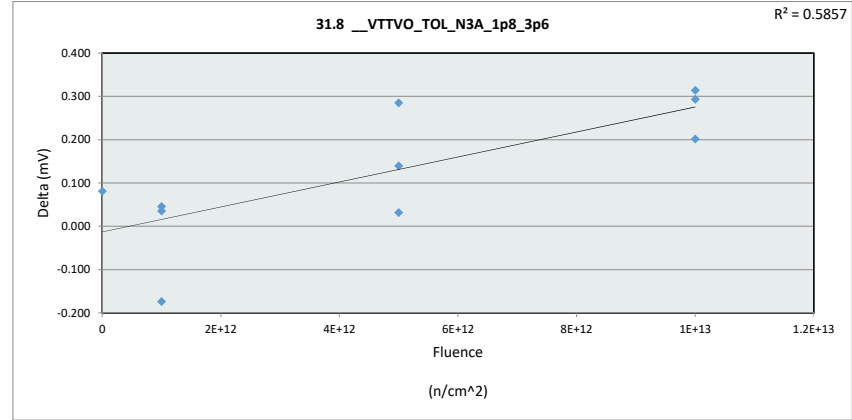
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	16.349	15.167	15.857	15.094
Average	16.349	15.486	16.270	15.653
Max	16.349	15.742	16.944	16.037
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

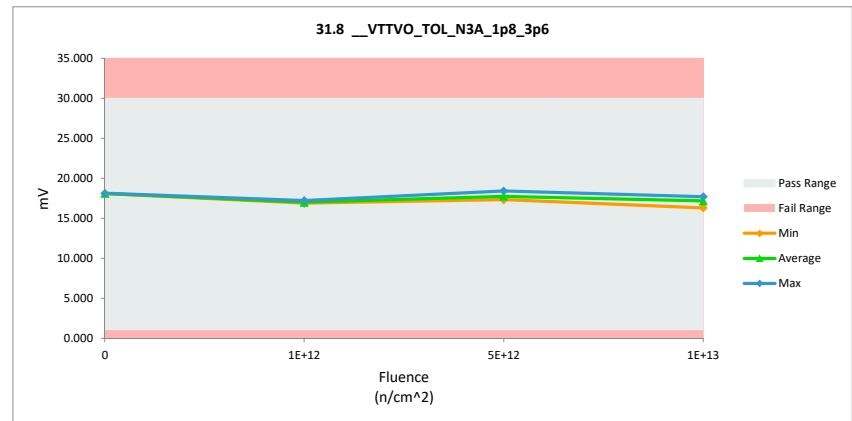
31.8 __ VTTVO_TOL_N3A_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	30 30
Min Limit	1 1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	18.032	18.113	0.081
1E+12	2	17.103	16.929	-0.174
1E+12	3	17.175	17.221	0.046
1E+12	4	16.830	16.866	0.036
5E+12	5	18.138	18.423	0.285
5E+12	6	17.289	17.321	0.031
5E+12	7	17.305	17.444	0.139
1E+13	8	17.488	17.690	0.202
1E+13	9	16.007	16.300	0.293
1E+13	10	17.190	17.504	0.314
	Max	18.138	18.423	0.314
	Average	17.256	17.381	0.125
	Min	16.007	16.300	-0.174
	Std Dev	0.598	0.615	0.153



31.8 __ VTTVO_TOL_N3A_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	30 mV
Min Limit	1 mV

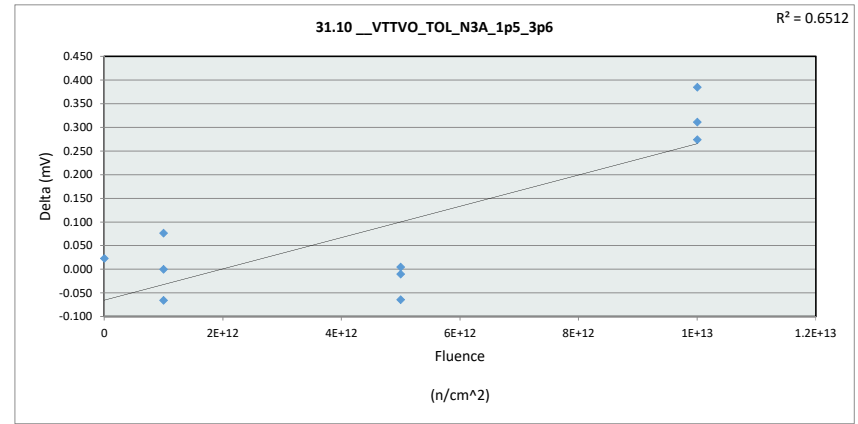
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	18.113	16.866	17.321	16.300
Average	18.113	17.005	17.730	17.165
Max	18.113	17.221	18.423	17.690
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

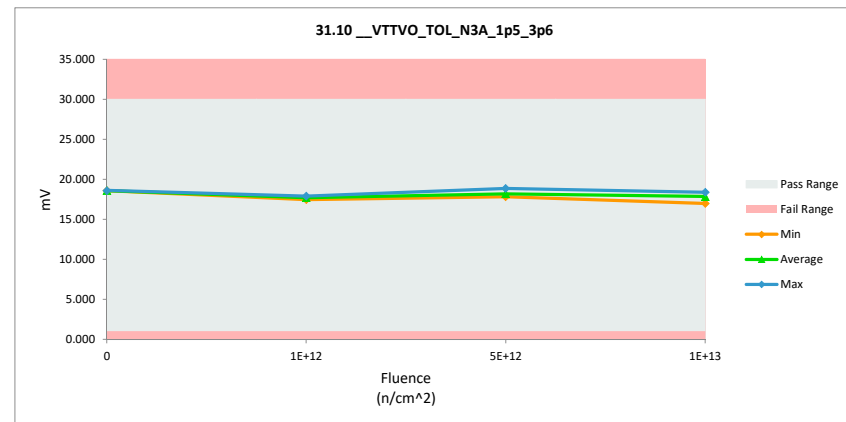
31.10_VTTVO_TOL_N3A_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	30 30
Min Limit	1 1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	18.575	18.598	0.023
1E+12	2	17.754	17.754	0.000
1E+12	3	17.969	17.903	-0.066
1E+12	4	17.375	17.451	0.076
5E+12	5	18.916	18.852	-0.064
5E+12	6	17.837	17.841	0.005
5E+12	7	17.822	17.811	-0.010
1E+13	8	18.105	18.378	0.274
1E+13	9	16.678	16.989	0.311
1E+13	10	17.780	18.165	0.385
	Max	18.916	18.852	0.385
	Average	17.881	17.974	0.093
	Min	16.678	16.989	-0.066
	Std Dev	0.610	0.548	0.166



31.10_VTTVO_TOL_N3A_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	30 mV
Min Limit	1 mV

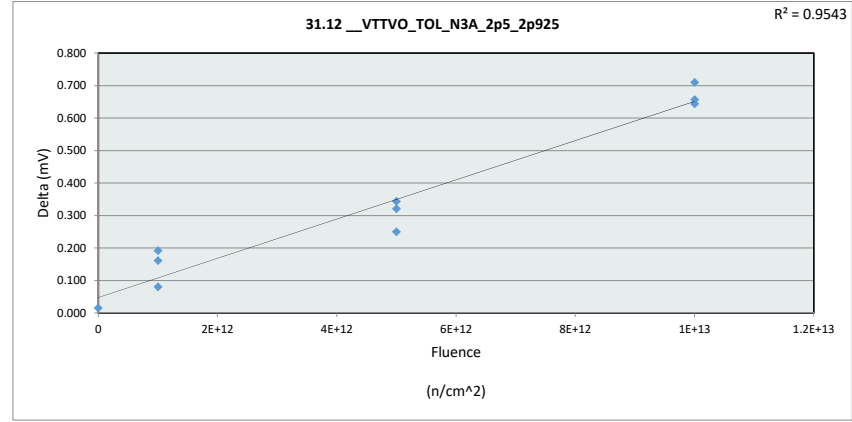
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	18.598	17.452	17.811	16.989
Average	18.598	17.703	18.168	17.844
Max	18.598	17.903	18.852	18.378
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

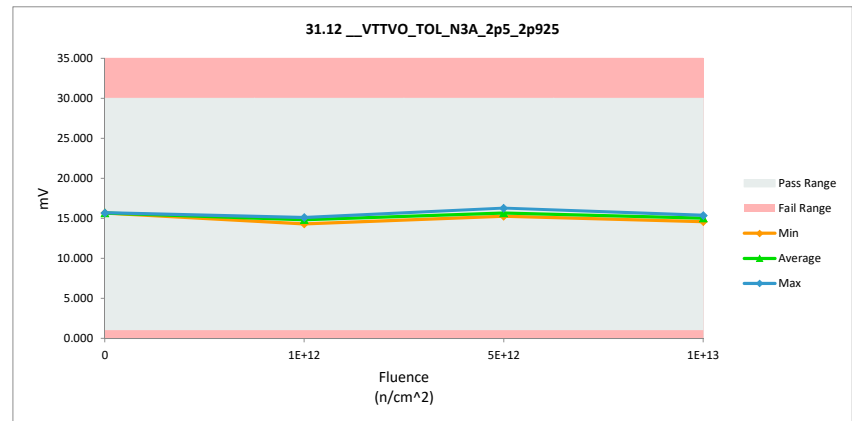
31.12_VTTVO_TOL_N3A_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	30
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.654	15.669	0.016
1E+12	2	14.909	15.100	0.191
1E+12	3	14.875	15.035	0.161
1E+12	4	14.229	14.309	0.080
5E+12	5	15.941	16.285	0.343
5E+12	6	14.929	15.250	0.321
5E+12	7	15.173	15.423	0.250
1E+13	8	14.640	15.350	0.710
1E+13	9	13.937	14.581	0.644
1E+13	10	14.474	15.130	0.656
Max		15.941	16.285	0.710
Average		14.876	15.213	0.337
Min		13.937	14.309	0.016
Std Dev		0.610	0.547	0.250



31.12_VTTVO_TOL_N3A_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	30 mV
Min Limit	1 mV

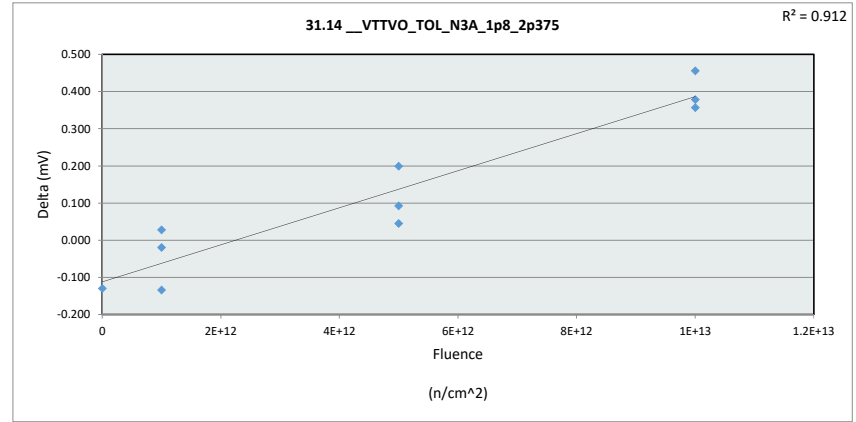
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	15.669	14.309	15.250	14.581
Average	15.669	14.815	15.652	15.020
Max	15.669	15.100	16.285	15.350
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

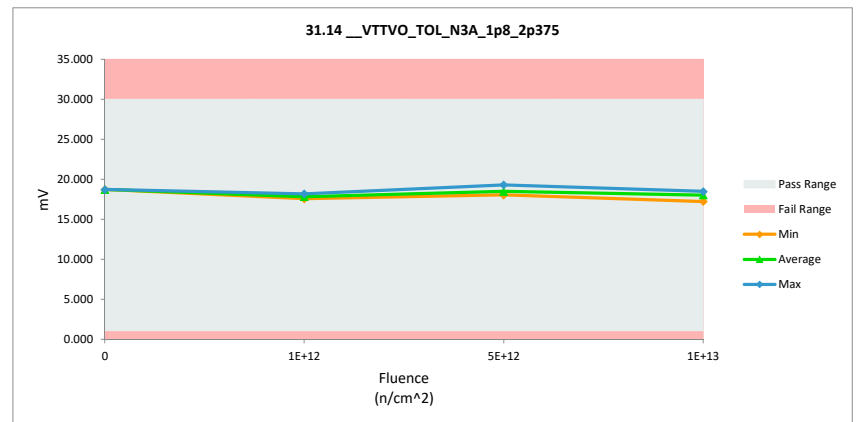
31.14_VTTVO_TOL_N3A_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	30
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	18.855	18.725	-0.130
1E+12	2	17.880	17.746	-0.134
1E+12	3	18.207	18.188	-0.020
1E+12	4	17.535	17.562	0.028
5E+12	5	19.094	19.293	0.200
5E+12	6	17.952	18.044	0.093
5E+12	7	18.055	18.101	0.045
1E+13	8	18.092	18.470	0.378
1E+13	9	16.855	17.212	0.356
1E+13	10	17.933	18.388	0.455
	Max	19.094	19.293	0.455
	Average	18.046	18.173	0.127
	Min	16.855	17.212	-0.134
	Std Dev	0.624	0.596	0.211



31.14_VTTVO_TOL_N3A_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	30 mV
Min Limit	1 mV

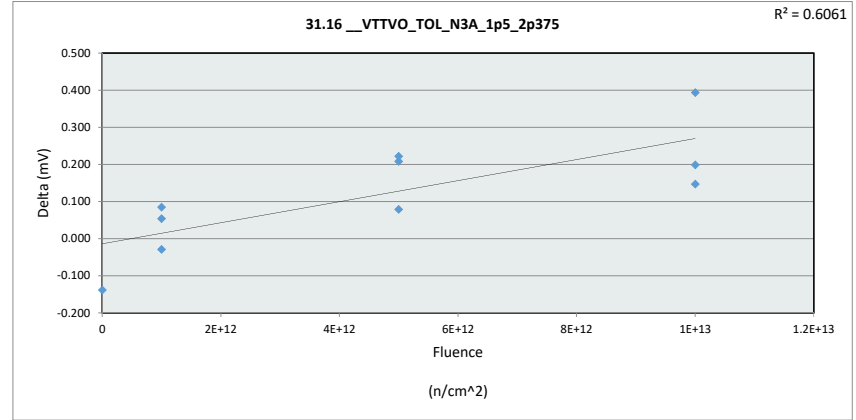
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	18.725	17.562	18.044	17.212
Average	18.725	17.832	18.479	18.023
Max	18.725	18.188	19.293	18.470
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

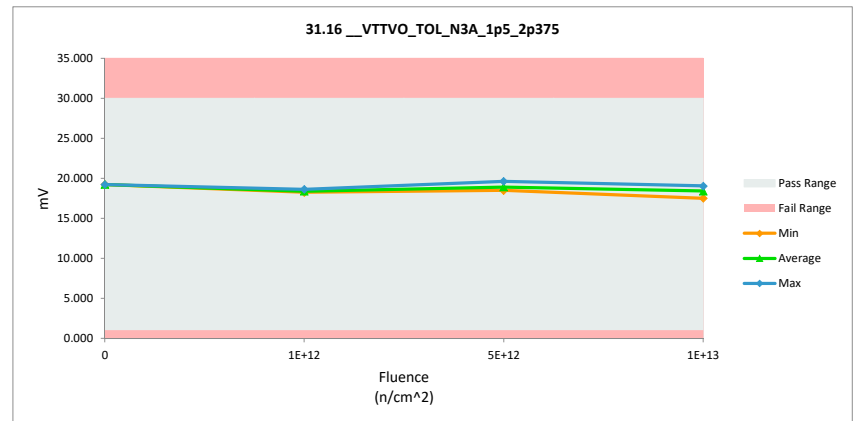
31.16_VTTVO_TOL_N3A_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	30
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.354	19.216	-0.138
1E+12	2	18.233	18.287	0.054
1E+12	3	18.637	18.609	-0.028
1E+12	4	18.146	18.231	0.085
5E+12	5	19.545	19.624	0.079
5E+12	6	18.368	18.577	0.209
5E+12	7	18.259	18.482	0.222
1E+13	8	18.632	19.026	0.394
1E+13	9	17.360	17.507	0.147
1E+13	10	18.447	18.645	0.199
	Max	19.545	19.624	0.394
	Average	18.498	18.620	0.122
	Min	17.360	17.507	-0.138
	Std Dev	0.618	0.582	0.148



31.16_VTTVO_TOL_N3A_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	30 mV
Min Limit	1 mV

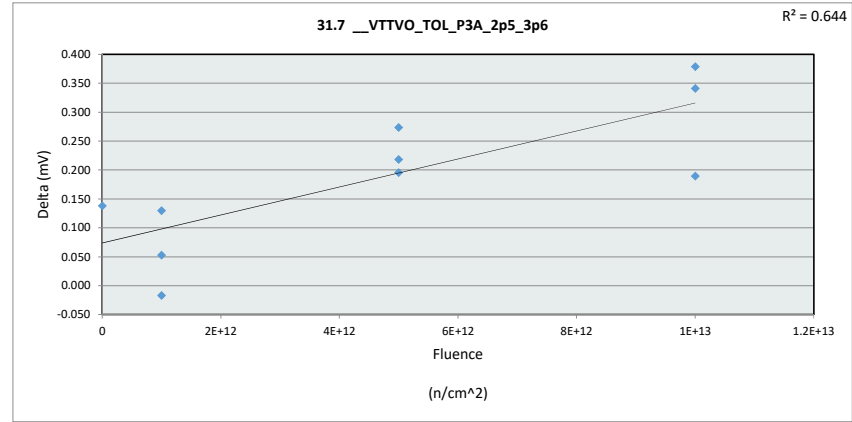
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	19.216	18.231	18.482	17.507
Average	19.216	18.376	18.894	18.393
Max	19.216	18.609	19.624	19.026
UL	30.000	30.000	30.000	30.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

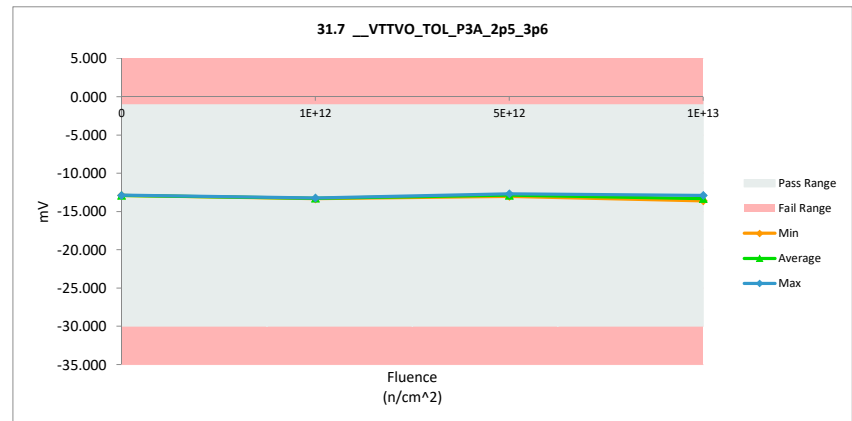
31.7 __ VTTVO_TOL_P3A_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	-1	-1
Min Limit	-30	-30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-13.019	-12.881	0.138
1E+12	2	-13.329	-13.276	0.053
1E+12	3	-13.378	-13.248	0.130
1E+12	4	-13.334	-13.351	-0.017
5E+12	5	-12.980	-12.706	0.274
5E+12	6	-13.221	-13.026	0.195
5E+12	7	-13.147	-12.929	0.218
1E+13	8	-13.290	-12.912	0.378
1E+13	9	-13.796	-13.606	0.189
1E+13	10	-13.800	-13.459	0.341
	Max	-12.980	-12.706	0.274
	Average	-13.329	-13.139	0.190
	Min	-13.800	-13.606	-0.194
	Std Dev	0.280	0.290	0.122



31.7 __ VTTVO_TOL_P3A_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-1	mV
Min Limit	-30	mV

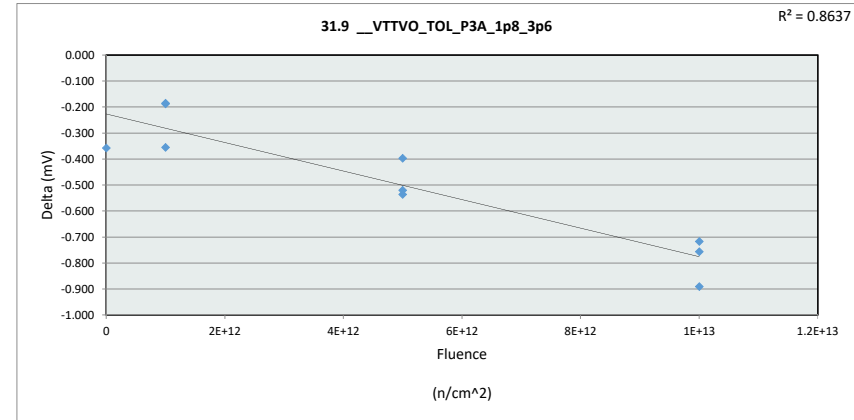
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-30.000	-30.000	-30.000	-30.000
Min	-12.881	-13.351	-13.026	-13.607
Average	-12.881	-13.292	-12.887	-13.326
Max	-12.881	-13.248	-12.706	-12.912
UL	-1.000	-1.000	-1.000	-1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

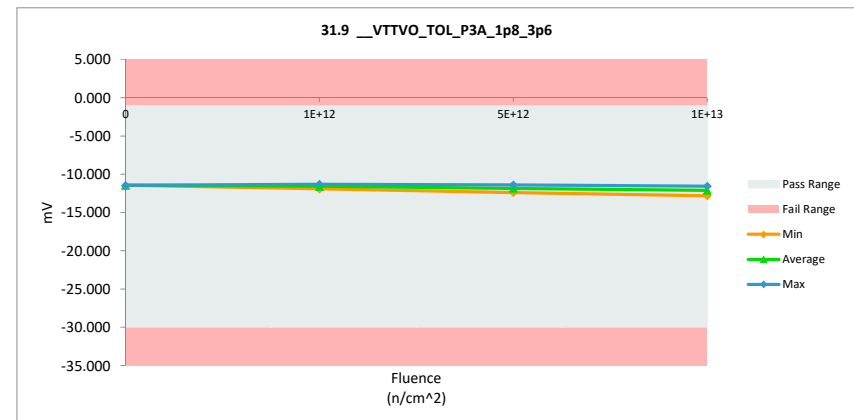
31.9 __VTTVO_TOL_P3A_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	-1 -1
Min Limit	-30 -30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-11.099	-11.457	-0.358
1E+12	2	-11.746	-11.931	-0.185
1E+12	3	-11.205	-11.560	-0.355
1E+12	4	-11.118	-11.306	-0.188
5E+12	5	-11.275	-11.811	-0.536
5E+12	6	-10.882	-11.402	-0.520
5E+12	7	-12.009	-12.406	-0.397
1E+13	8	-10.854	-11.571	-0.717
1E+13	9	-11.937	-12.827	-0.890
1E+13	10	-11.193	-11.949	-0.756
	Max	-10.854	-11.306	-0.185
	Average	-11.332	-11.822	-0.490
	Min	-12.009	-12.827	-0.890
	Std Dev	0.417	0.481	0.239



31.9 __VTTVO_TOL_P3A_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	-1 mV
Min Limit	-30 mV

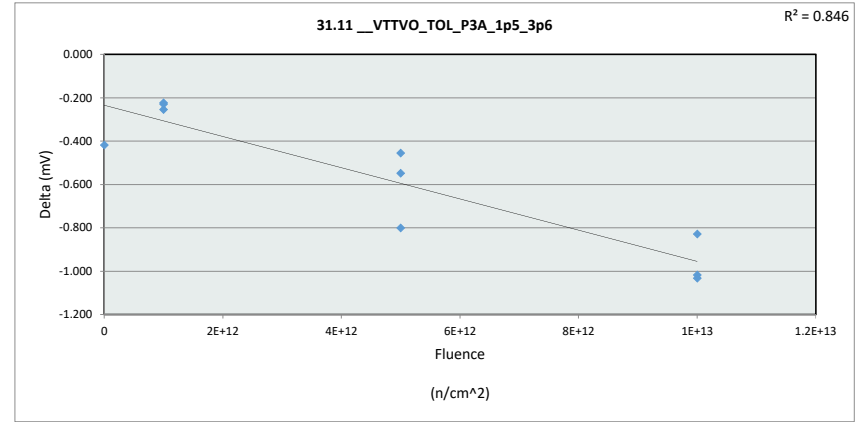
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-30.000	-30.000	-30.000	-30.000
Min	-11.457	-11.931	-12.406	-12.827
Average	-11.457	-11.599	-11.873	-12.116
Max	-11.457	-11.306	-11.402	-11.571
UL	-1.000	-1.000	-1.000	-1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

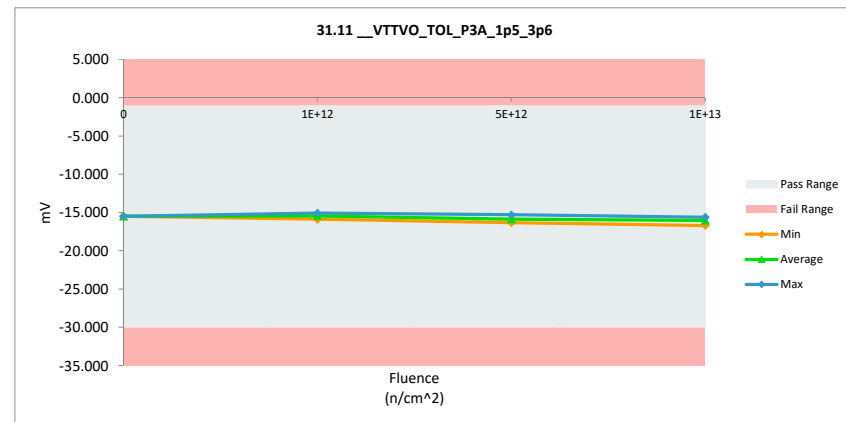
31.11_VTTVO_TOL_P3A_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	-1	-1
Min Limit	-30	-30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-15.090	-15.508	-0.419
1E+12	2	-15.679	-15.903	-0.224
1E+12	3	-15.071	-15.325	-0.254
1E+12	4	-14.847	-15.075	-0.229
5E+12	5	-15.421	-15.969	-0.548
5E+12	6	-14.516	-15.317	-0.800
5E+12	7	-15.874	-16.329	-0.455
1E+13	8	-14.568	-15.601	-1.032
1E+13	9	-15.705	-16.722	-1.017
1E+13	10	-15.009	-15.837	-0.828
	Max	-14.516	-15.075	-0.224
	Average	-15.178	-15.759	-0.581
	Min	-15.874	-16.722	-1.032
	Std Dev	0.476	0.501	0.317



31.11_VTTVO_TOL_P3A_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-1	mV
Min Limit	-30	mV

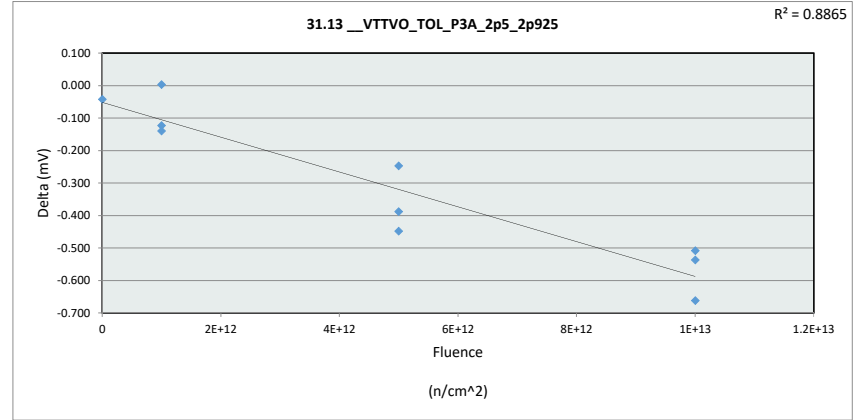
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-30.000	-30.000	-30.000	-30.000
Min	-15.508	-15.904	-16.329	-16.722
Average	-15.508	-15.435	-15.872	-16.053
Max	-15.508	-15.075	-15.317	-15.601
UL	-1.000	-1.000	-1.000	-1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

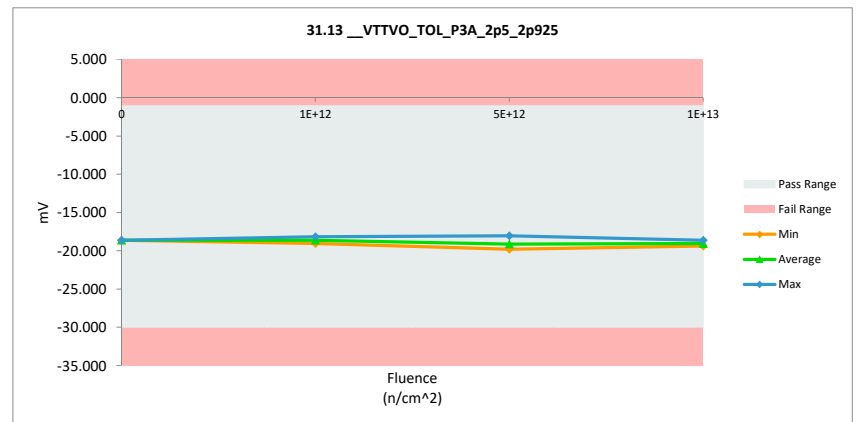
31.13_VTTVO_TOL_P3A_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	-1	-1
Min Limit	-30	-30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-18.599	-18.641	-0.042
1E+12	2	-19.064	-19.061	0.003
1E+12	3	-18.546	-18.669	-0.123
1E+12	4	-18.042	-18.182	-0.139
5E+12	5	-19.040	-19.488	-0.448
5E+12	6	-17.809	-18.056	-0.247
5E+12	7	-19.409	-19.796	-0.388
1E+13	8	-18.137	-18.645	-0.508
1E+13	9	-18.632	-19.169	-0.536
1E+13	10	-18.728	-19.389	-0.662
	Max	-17.809	-18.056	0.003
	Average	-18.601	-18.910	-0.309
	Min	-19.409	-19.796	-0.662
	Std Dev	0.498	0.567	0.230



31.13_VTTVO_TOL_P3A_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	-1	mV
Min Limit	-30	mV

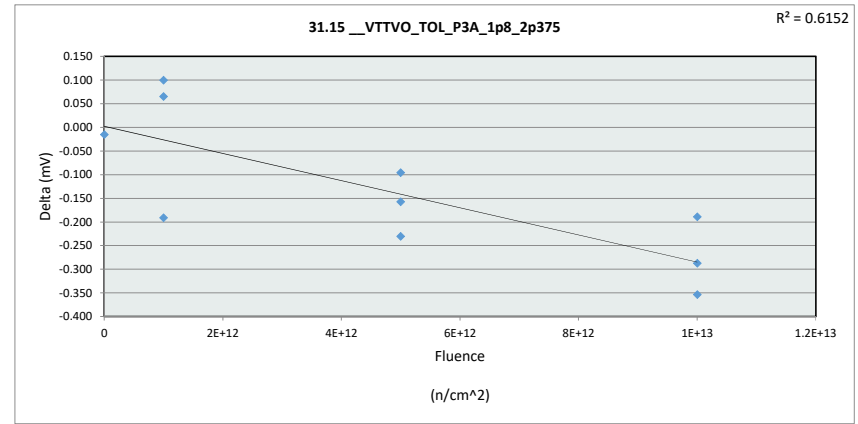
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-30.000	-30.000	-30.000	-30.000
Min	-18.641	-19.061	-19.797	-19.389
Average	-18.641	-18.637	-19.113	-19.068
Max	-18.641	-18.182	-18.056	-18.645
UL	-1.000	-1.000	-1.000	-1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

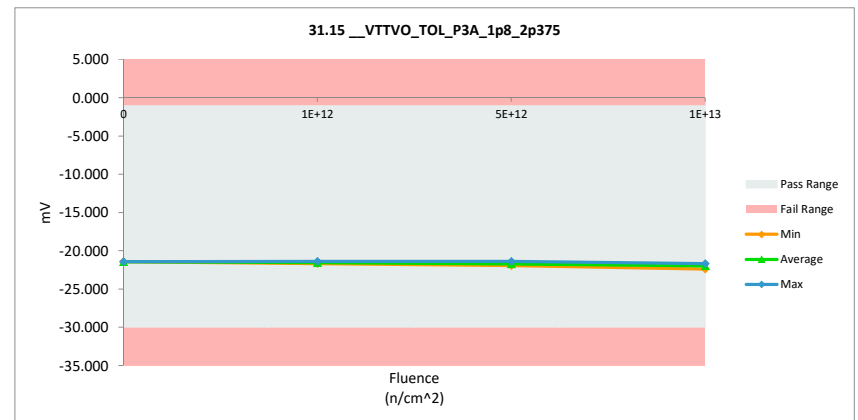
31.15_VTTVO_TOL_P3A_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	-1 -1
Min Limit	-30 -30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-21.422	-21.438	-0.015
1E+12	2	-21.492	-21.392	0.100
1E+12	3	-21.677	-21.612	0.065
1E+12	4	-21.498	-21.690	-0.191
5E+12	5	-21.717	-21.948	-0.231
5E+12	6	-21.290	-21.386	-0.096
5E+12	7	-21.699	-21.856	-0.157
1E+13	8	-21.323	-21.676	-0.353
1E+13	9	-22.189	-22.378	-0.189
1E+13	10	-21.540	-21.827	-0.287
	Max	-21.290	-21.386	0.100
	Average	-21.585	-21.720	-0.136
	Min	-22.189	-22.378	-0.353
	Std Dev	0.259	0.303	0.148



31.15_VTTVO_TOL_P3A_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	-1 mV
Min Limit	-30 mV

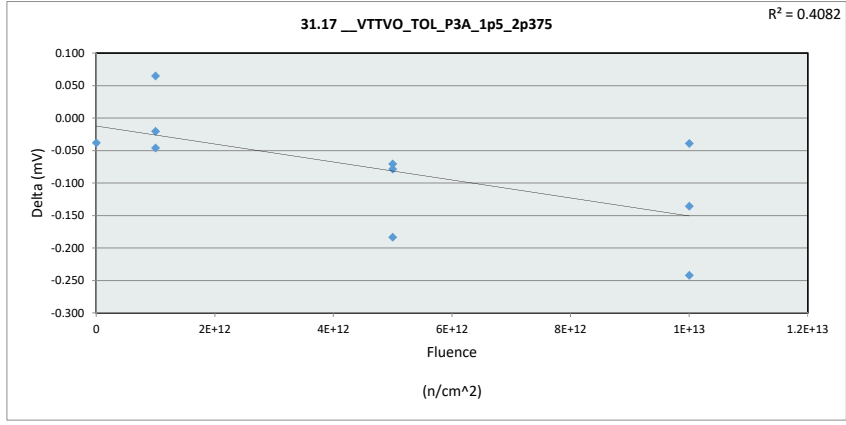
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-30.000	-30.000	-30.000	-30.000
Min	-21.438	-21.690	-21.948	-22.378
Average	-21.438	-21.565	-21.730	-21.960
Max	-21.438	-21.392	-21.386	-21.676
UL	-1.000	-1.000	-1.000	-1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

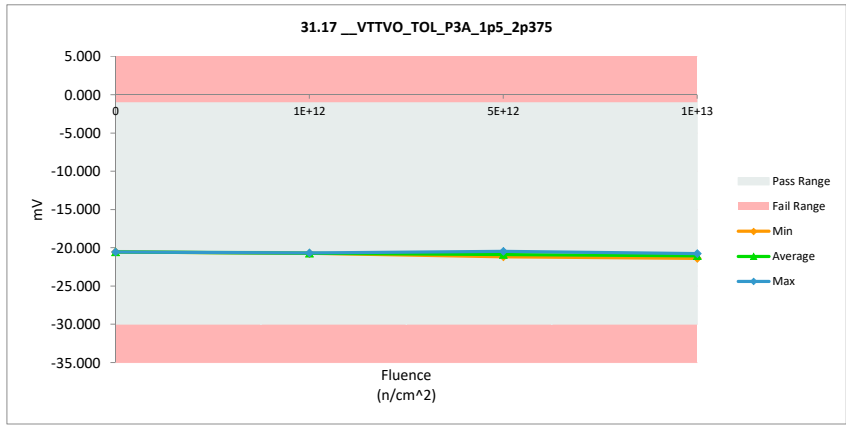
31.17_VTTVO_TOL_P3A_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	-1	-1
Min Limit	-30	-30

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-20.517	-20.555	-0.038
1E+12	2	-20.716	-20.736	-0.020
1E+12	3	-20.700	-20.746	-0.046
1E+12	4	-20.752	-20.687	0.065
5E+12	5	-20.963	-21.034	-0.071
5E+12	6	-20.278	-20.461	-0.183
5E+12	7	-21.115	-21.193	-0.079
1E+13	8	-20.705	-20.744	-0.039
1E+13	9	-21.238	-21.373	-0.135
1E+13	10	-20.814	-21.056	-0.242
	Max	-20.278	-20.461	0.065
	Average	-20.780	-20.859	-0.079
	Min	-21.238	-21.373	-0.242
	Std Dev	0.278	0.292	0.088



31.17_VTTVO_TOL_P3A_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	-1	mV
Min Limit	-30	mV

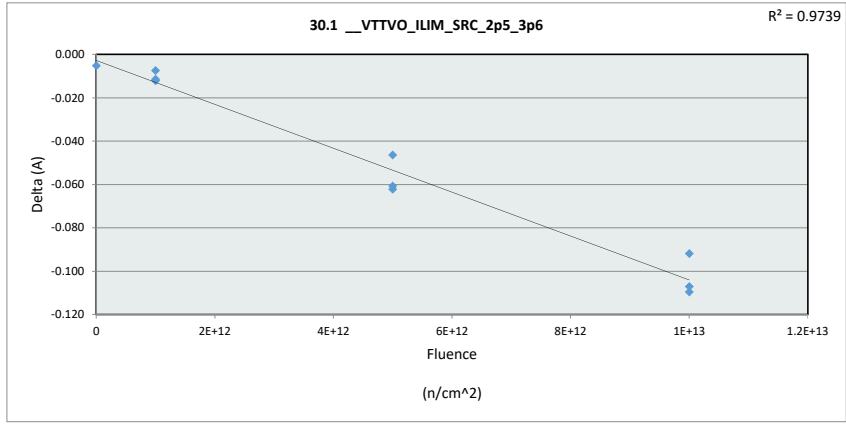
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-30.000	-30.000	-30.000	-30.000
Min	-20.555	-20.746	-21.193	-21.373
Average	-20.555	-20.723	-20.896	-21.058
Max	-20.555	-20.687	-20.461	-20.744
UL	-1.000	-1.000	-1.000	-1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

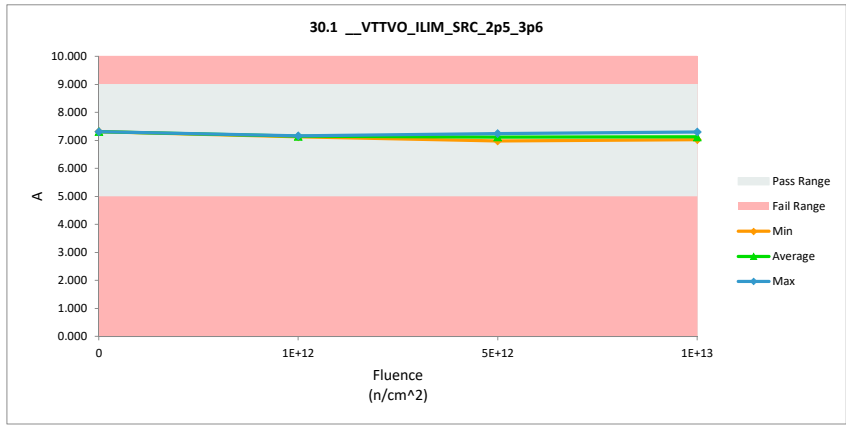
30.1 __ VTTVO_ILIM_SRC_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	A A
Max Limit	9 9
Min Limit	5 5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.315	7.310	-0.005
1E+12	2	7.167	7.160	-0.007
1E+12	3	7.154	7.142	-0.011
1E+12	4	7.137	7.124	-0.012
5E+12	5	7.166	7.119	-0.046
5E+12	6	7.035	6.973	-0.062
5E+12	7	7.298	7.238	-0.061
1E+13	8	7.146	7.036	-0.109
1E+13	9	7.390	7.298	-0.092
1E+13	10	7.130	7.023	-0.107
	Max	7.390	7.310	-0.005
	Average	7.194	7.142	-0.051
	Min	7.035	6.973	-0.109
	Std Dev	0.106	0.114	0.042



30.1 __ VTTVO_ILIM_SRC_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	9 A
Min Limit	5 A

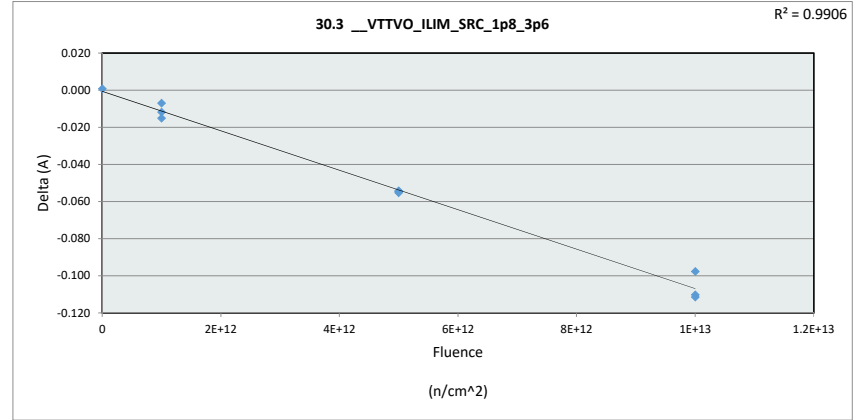
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.310	7.124	6.973	7.023
Average	7.310	7.142	7.110	7.119
Max	7.310	7.160	7.238	7.298
UL	9.000	9.000	9.000	9.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

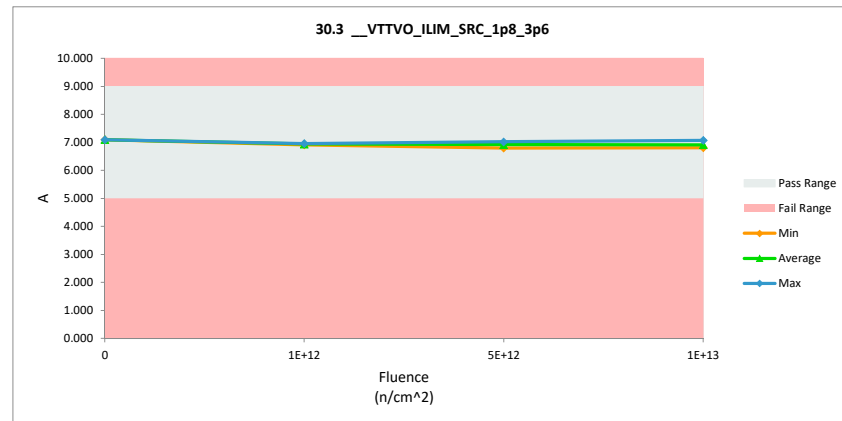
30.3 __VTTVO_ILIM_SRC_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	A	A
Max Limit	9	9
Min Limit	5	5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.092	7.093	0.001
1E+12	2	6.966	6.959	-0.007
1E+12	3	6.950	6.938	-0.012
1E+12	4	6.923	6.908	-0.015
5E+12	5	6.984	6.930	-0.055
5E+12	6	6.849	6.794	-0.054
5E+12	7	7.071	7.016	-0.055
1E+13	8	6.950	6.839	-0.110
1E+13	9	7.166	7.068	-0.098
1E+13	10	6.917	6.805	-0.112
	Max	7.166	7.093	0.001
	Average	6.987	6.935	-0.052
	Min	6.849	6.794	-0.112
	Std Dev	0.095	0.103	0.043



30.3 __VTTVO_ILIM_SRC_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	9	A
Min Limit	5	A

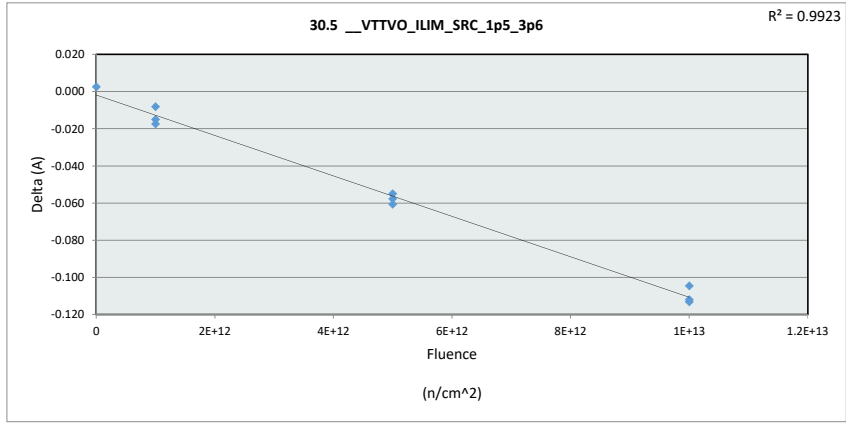
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.093	6.908	6.794	6.805
Average	7.093	6.935	6.913	6.904
Max	7.093	6.959	7.016	7.068
UL	9.000	9.000	9.000	9.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

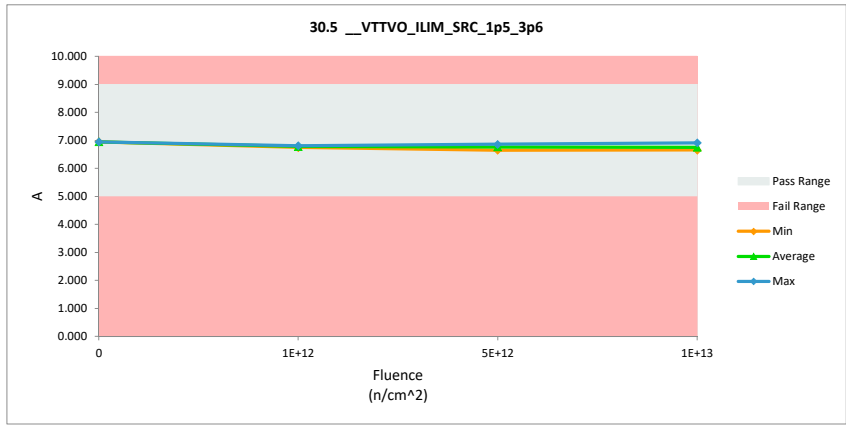
30.5 __ VTTVO_ILIM_SRC_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	A A
Max Limit	9 9
Min Limit	5 5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.936	6.939	0.003
1E+12	2	6.820	6.803	-0.017
1E+12	3	6.793	6.785	-0.008
1E+12	4	6.758	6.743	-0.015
5E+12	5	6.842	6.781	-0.061
5E+12	6	6.705	6.648	-0.058
5E+12	7	6.910	6.855	-0.055
1E+13	8	6.796	6.682	-0.113
1E+13	9	7.009	6.904	-0.105
1E+13	10	6.760	6.648	-0.112
	Max	7.009	6.939	0.003
	Average	6.833	6.779	-0.054
	Min	6.705	6.648	-0.113
	Std Dev	0.093	0.101	0.044



30.5 __ VTTVO_ILIM_SRC_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	9 A
Min Limit	5 A

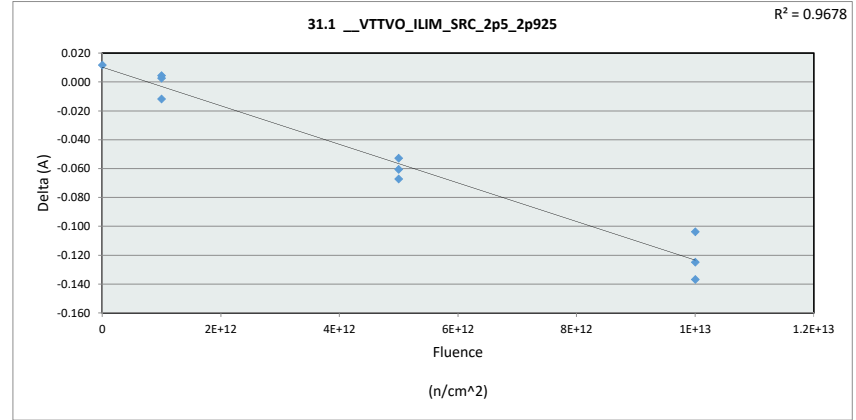
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	6.939	6.743	6.648	6.648
Average	6.939	6.777	6.761	6.745
Max	6.939	6.803	6.855	6.904
UL	9.000	9.000	9.000	9.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

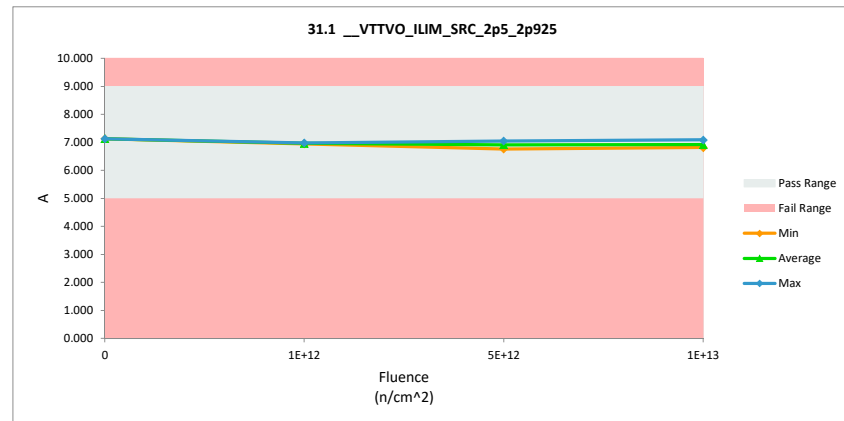
31.1 __ VTTVO_ILIM_SRC_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	A A
Max Limit	9 9
Min Limit	5 5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.117	7.129	0.012
1E+12	2	6.976	6.978	0.003
1E+12	3	6.967	6.955	-0.012
1E+12	4	6.937	6.942	0.004
5E+12	5	6.977	6.916	-0.061
5E+12	6	6.832	6.764	-0.067
5E+12	7	7.094	7.041	-0.053
1E+13	8	6.979	6.842	-0.137
1E+13	9	7.190	7.086	-0.104
1E+13	10	6.934	6.810	-0.125
Max		7.190	7.129	0.012
Average		7.000	6.946	-0.054
Min		6.832	6.764	-0.137
Std Dev		0.104	0.119	0.055



31.1 __ VTTVO_ILIM_SRC_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	9 A
Min Limit	5 A

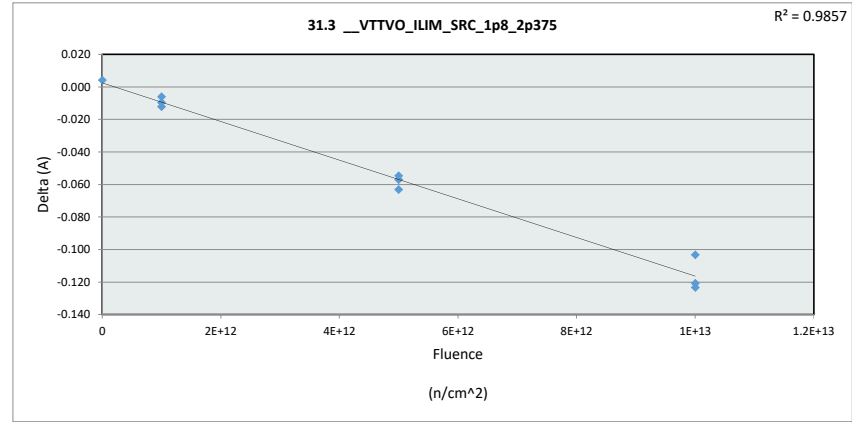
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.129	6.942	6.764	6.810
Average	7.129	6.958	6.907	6.913
Max	7.129	6.978	7.041	7.086
UL	9.000	9.000	9.000	9.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

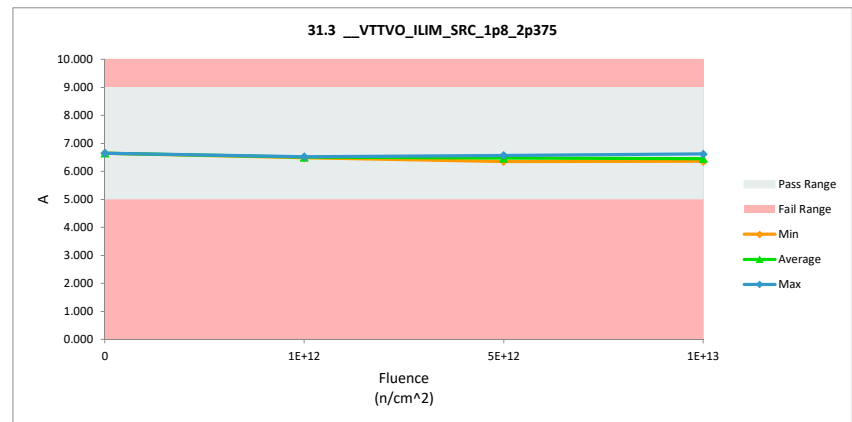
31.3 __VTTVO_ILIM_SRC_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	A A
Max Limit	9 9
Min Limit	5 5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.645	6.649	0.004
1E+12	2	6.535	6.525	-0.010
1E+12	3	6.509	6.497	-0.012
1E+12	4	6.484	6.478	-0.006
5E+12	5	6.545	6.482	-0.063
5E+12	6	6.401	6.347	-0.055
5E+12	7	6.621	6.564	-0.057
1E+13	8	6.517	6.396	-0.121
1E+13	9	6.718	6.615	-0.103
1E+13	10	6.476	6.352	-0.123
	Max	6.718	6.649	0.004
	Average	6.545	6.491	-0.055
	Min	6.401	6.347	-0.123
	Std Dev	0.092	0.103	0.048



31.3 __VTTVO_ILIM_SRC_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	9 A
Min Limit	5 A

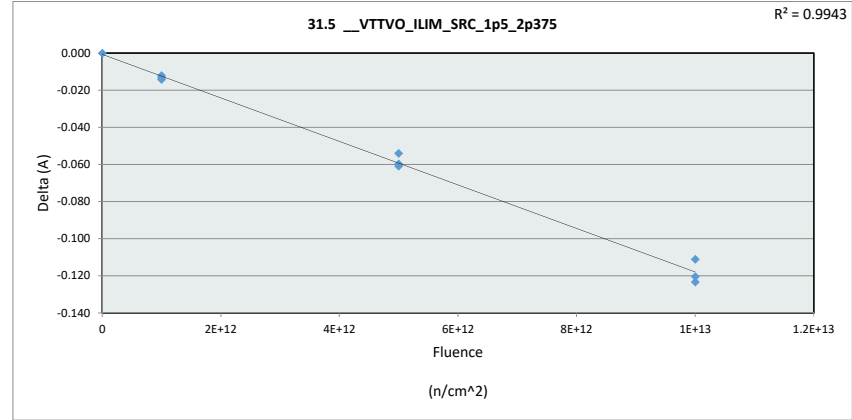
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	6.649	6.478	6.347	6.353
Average	6.649	6.500	6.464	6.454
Max	6.649	6.526	6.564	6.615
UL	9.000	9.000	9.000	9.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

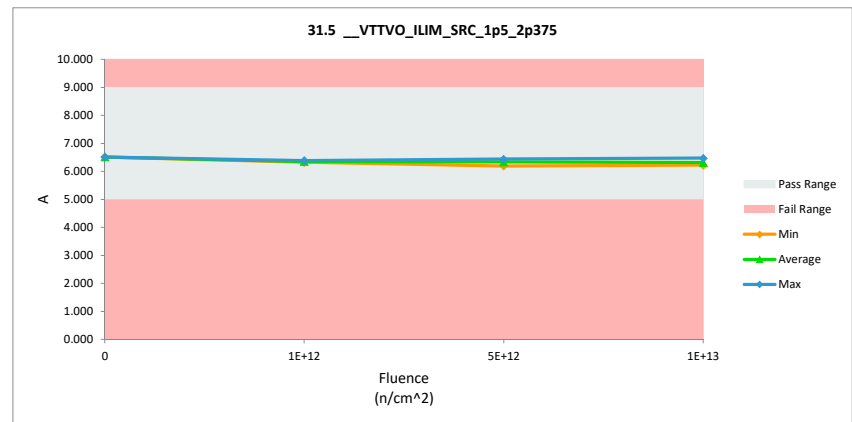
31.5 __VTTVO_ILIM_SRC_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	A A
Max Limit	9 9
Min Limit	5 5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.512	6.512	0.000
1E+12	2	6.396	6.383	-0.013
1E+12	3	6.359	6.346	-0.012
1E+12	4	6.333	6.319	-0.014
5E+12	5	6.415	6.355	-0.060
5E+12	6	6.256	6.195	-0.061
5E+12	7	6.484	6.430	-0.054
1E+13	8	6.371	6.248	-0.123
1E+13	9	6.579	6.468	-0.111
1E+13	10	6.333	6.213	-0.120
Max		6.579	6.512	0.000
Average		6.404	6.347	-0.057
Min		6.256	6.195	-0.123
Std Dev		0.097	0.106	0.048



31.5 __VTTVO_ILIM_SRC_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	9 A
Min Limit	5 A

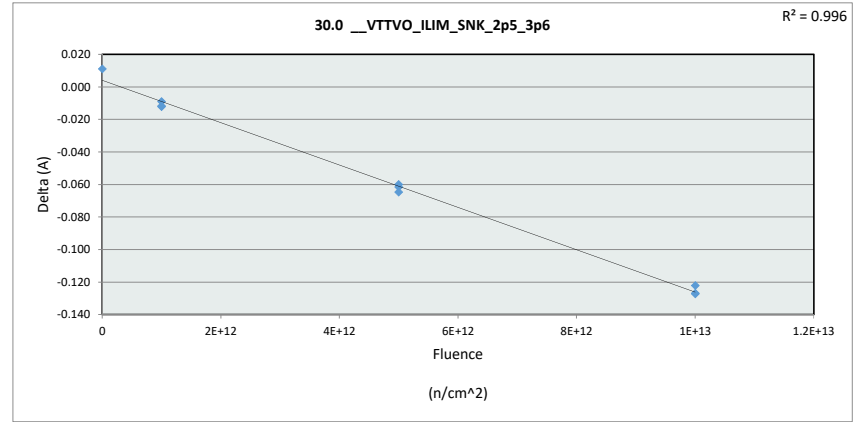
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	6.513	6.319	6.195	6.213
Average	6.513	6.349	6.327	6.310
Max	6.513	6.383	6.430	6.468
UL	9.000	9.000	9.000	9.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

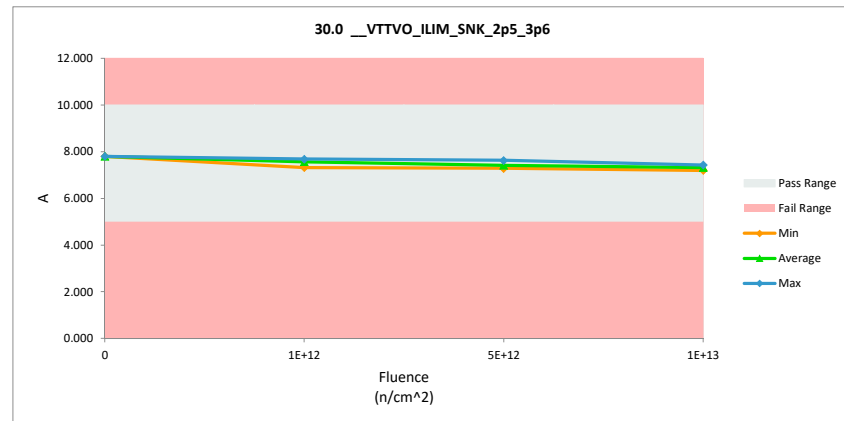
30.0 __VTTVO_ILIM_SNK_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	A A
Max Limit	10 10
Min Limit	5 5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.781	7.792	0.011
1E+12	2	7.693	7.681	-0.012
1E+12	3	7.687	7.678	-0.009
1E+12	4	7.328	7.316	-0.012
5E+12	5	7.397	7.337	-0.060
5E+12	6	7.340	7.279	-0.061
5E+12	7	7.687	7.622	-0.065
1E+13	8	7.548	7.421	-0.127
1E+13	9	7.477	7.355	-0.122
1E+13	10	7.319	7.192	-0.127
	Max	7.781	7.792	0.011
	Average	7.526	7.467	-0.058
	Min	7.319	7.192	-0.127
	Std Dev	0.177	0.207	0.053



30.0 __VTTVO_ILIM_SNK_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	10 A
Min Limit	5 A

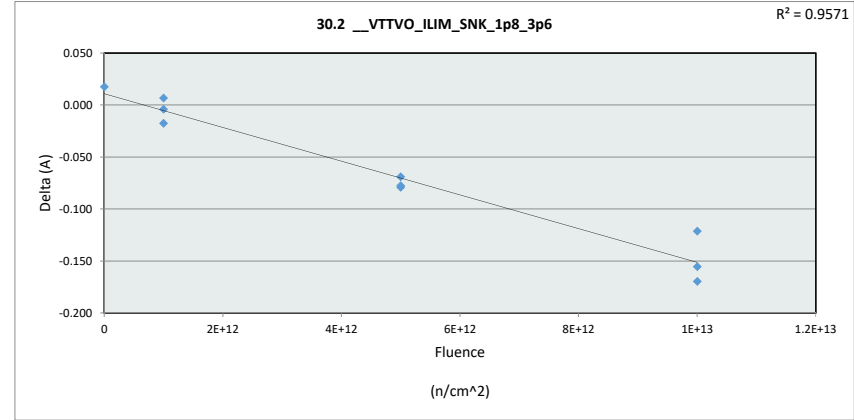
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.792	7.316	7.279	7.192
Average	7.792	7.558	7.413	7.323
Max	7.792	7.681	7.622	7.421
UL	10.000	10.000	10.000	10.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

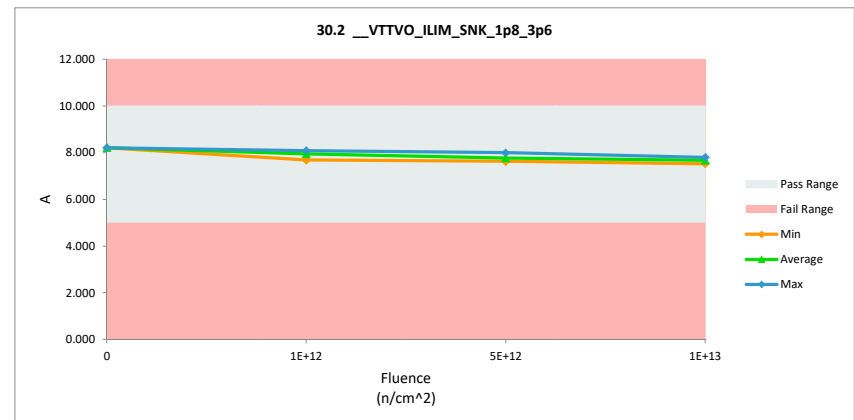
30.2 __VTTVO_ILIM_SNK_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	A	A
Max Limit	10	10
Min Limit	5	5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	8.197	8.215	0.018
1E+12	2	8.085	8.081	-0.004
1E+12	3	8.078	8.085	0.007
1E+12	4	7.692	7.675	-0.017
5E+12	5	7.756	7.687	-0.069
5E+12	6	7.704	7.625	-0.079
5E+12	7	8.074	7.996	-0.078
1E+13	8	7.921	7.800	-0.121
1E+13	9	7.854	7.698	-0.155
1E+13	10	7.692	7.522	-0.170
	Max	8.197	8.215	0.018
	Average	7.905	7.838	-0.067
	Min	7.692	7.522	-0.170
	Std Dev	0.192	0.236	0.067



30.2 __VTTVO_ILIM_SNK_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	10	A
Min Limit	5	A

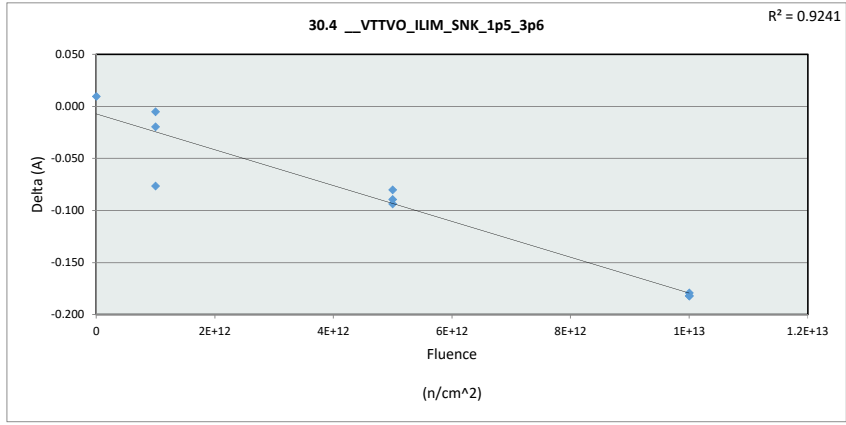
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	8.215	7.675	7.625	7.522
Average	8.215	7.947	7.769	7.673
Max	8.215	8.085	7.996	7.800
UL	10.000	10.000	10.000	10.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

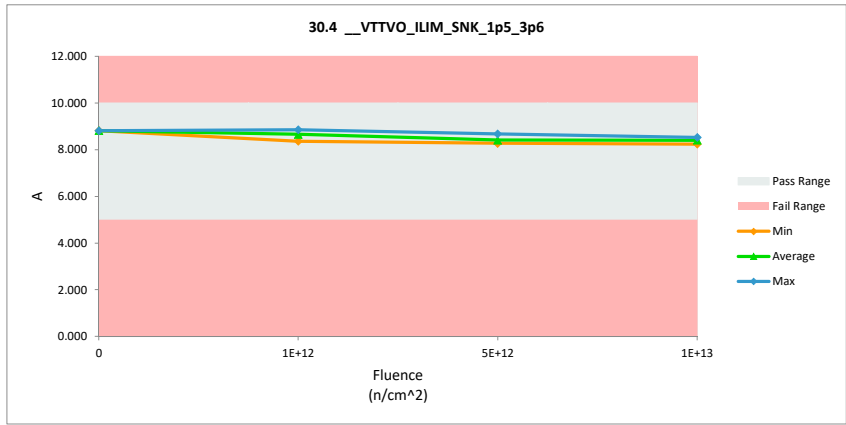
30.4 __VTTVO_ILIM_SNK_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	A	A
Max Limit	10	10
Min Limit	5	5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	8.801	8.811	0.010
1E+12	2	8.928	8.852	-0.076
1E+12	3	8.752	8.746	-0.005
1E+12	4	8.378	8.359	-0.020
5E+12	5	8.377	8.284	-0.094
5E+12	6	8.360	8.270	-0.090
5E+12	7	8.750	8.670	-0.080
1E+13	8	8.708	8.529	-0.179
1E+13	9	8.632	8.450	-0.182
1E+13	10	8.413	8.231	-0.182
	Max	8.928	8.852	0.010
	Average	8.610	8.520	-0.090
	Min	8.360	8.231	-0.182
	Std Dev	0.210	0.236	0.072



30.4 __VTTVO_ILIM_SNK_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	10	A
Min Limit	5	A

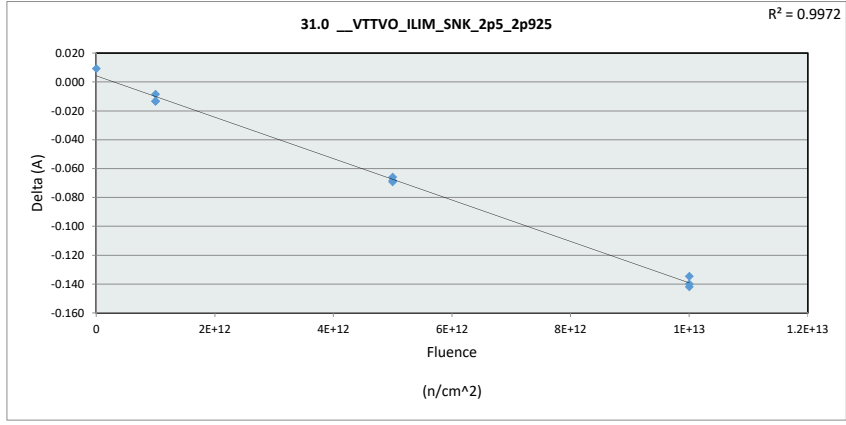
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	8.811	8.359	8.270	8.231
Average	8.811	8.652	8.408	8.403
Max	8.811	8.852	8.670	8.529
UL	10.000	10.000	10.000	10.000



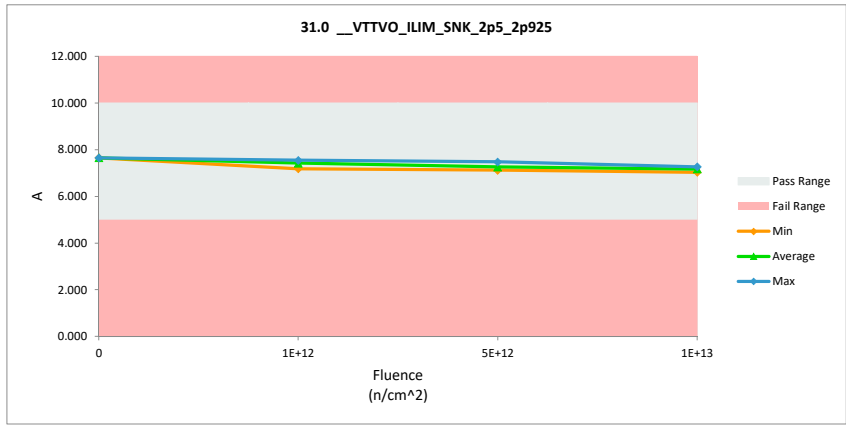
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

31.0 __VTTVO_ILIM_SNK_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	A	A
Max Limit	10	10
Min Limit	5	5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.634	7.644	0.009
1E+12	2	7.549	7.540	-0.009
1E+12	3	7.540	7.527	-0.013
1E+12	4	7.194	7.180	-0.013
5E+12	5	7.248	7.182	-0.066
5E+12	6	7.183	7.115	-0.068
5E+12	7	7.539	7.470	-0.069
1E+13	8	7.406	7.266	-0.140
1E+13	9	7.331	7.196	-0.135
1E+13	10	7.177	7.035	-0.142
	Max	7.634	7.644	0.009
	Average	7.380	7.316	-0.065
	Min	7.177	7.035	-0.142
	Std Dev	0.176	0.210	0.058



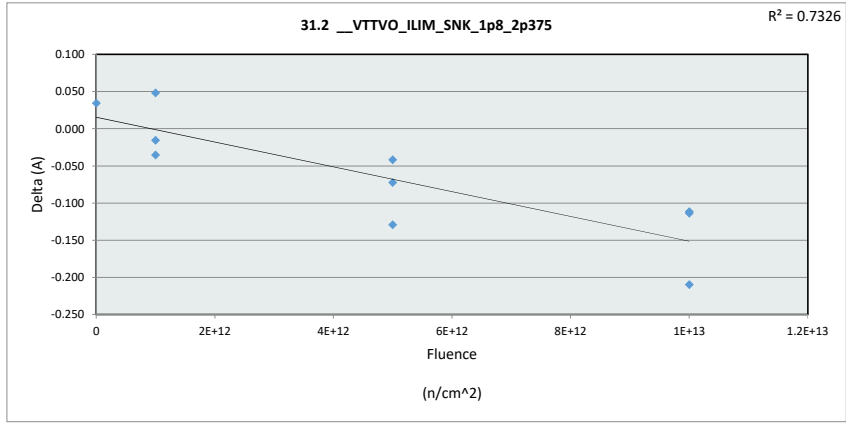
31.0 __VTTVO_ILIM_SNK_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	10		A	
Min Limit	5		A	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.644	7.180	7.115	7.035
Average	7.644	7.416	7.256	7.166
Max	7.644	7.540	7.470	7.266
UL	10.000	10.000	10.000	10.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

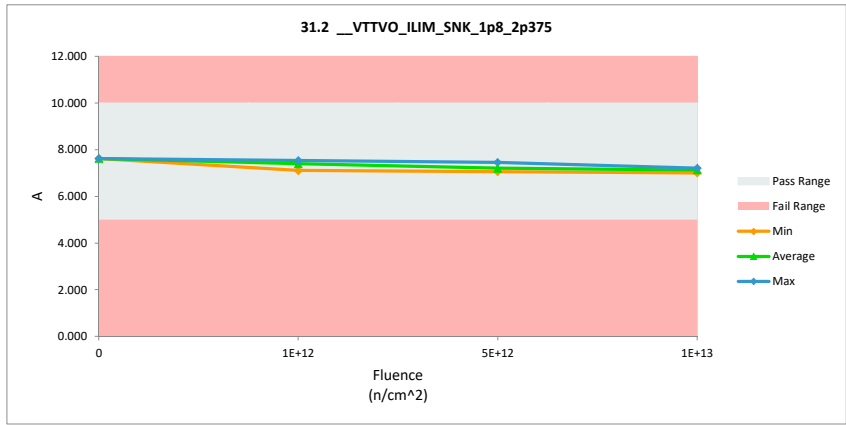
31.2 __VTTVO_ILIM_SNK_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	A	A
Max Limit	10	10
Min Limit	5	5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.581	7.615	0.034
1E+12	2	7.484	7.533	0.048
1E+12	3	7.538	7.522	-0.015
1E+12	4	7.140	7.105	-0.035
5E+12	5	7.217	7.088	-0.129
5E+12	6	7.098	7.056	-0.042
5E+12	7	7.523	7.450	-0.072
1E+13	8	7.412	7.202	-0.210
1E+13	9	7.269	7.157	-0.111
1E+13	10	7.117	7.004	-0.113
	Max	7.581	7.615	0.048
	Average	7.338	7.273	-0.065
	Min	7.098	7.004	-0.210
	Std Dev	0.190	0.231	0.079



31.2 __VTTVO_ILIM_SNK_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	10	A
Min Limit	5	A

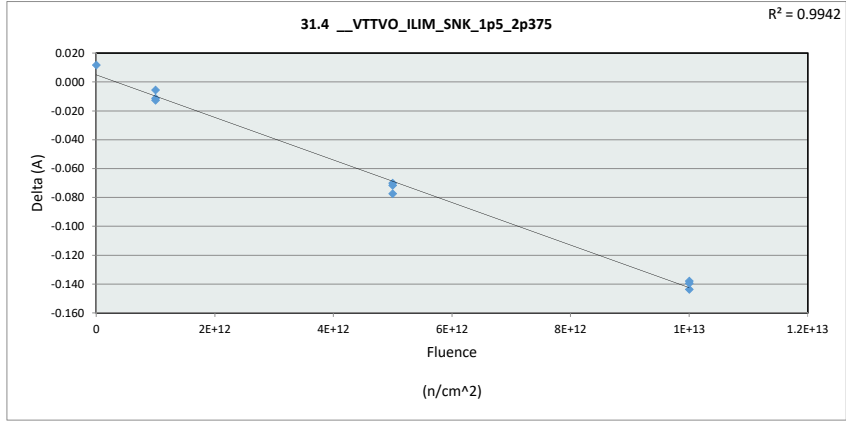
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.615	7.105	7.056	7.004
Average	7.615	7.387	7.198	7.121
Max	7.615	7.533	7.450	7.202
UL	10.000	10.000	10.000	10.000



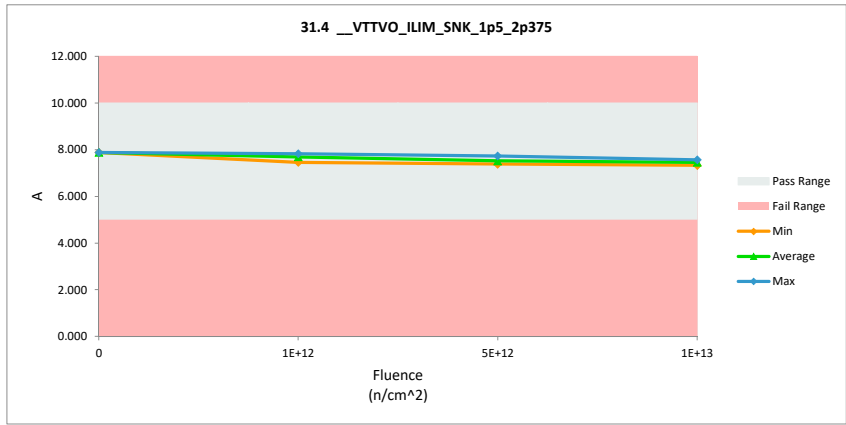
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

31.4 __VTTVO_ILIM_SNK_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	A	A
Max Limit	10	10
Min Limit	5	5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.863	7.875	0.012
1E+12	2	7.831	7.820	-0.011
1E+12	3	7.793	7.787	-0.006
1E+12	4	7.461	7.449	-0.013
5E+12	5	7.503	7.426	-0.077
5E+12	6	7.449	7.379	-0.070
5E+12	7	7.799	7.728	-0.072
1E+13	8	7.702	7.563	-0.140
1E+13	9	7.631	7.487	-0.144
1E+13	10	7.463	7.325	-0.138
	Max	7.863	7.875	0.012
	Average	7.650	7.584	-0.066
	Min	7.449	7.325	-0.144
	Std Dev	0.169	0.201	0.060



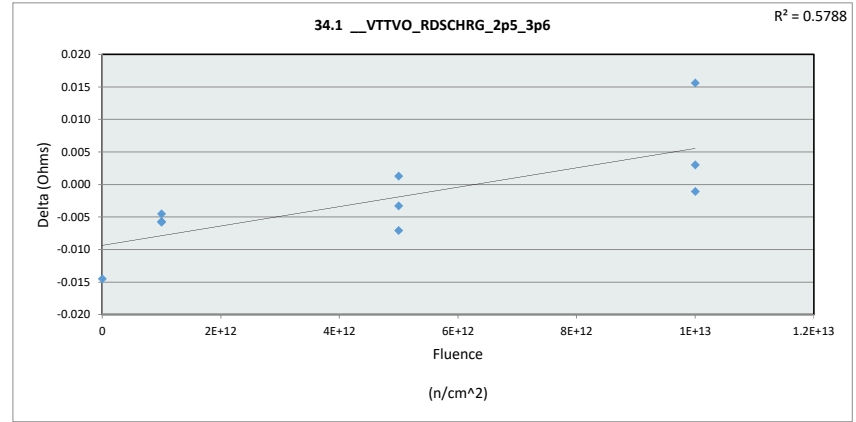
31.4 __VTTVO_ILIM_SNK_1p5_2p375				
Test Site				
Tester				
Test Number				
Max Limit	10		A	
Min Limit	5		A	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.875	7.449	7.379	7.325
Average	7.875	7.685	7.511	7.458
Max	7.875	7.820	7.728	7.563
UL	10.000	10.000	10.000	10.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

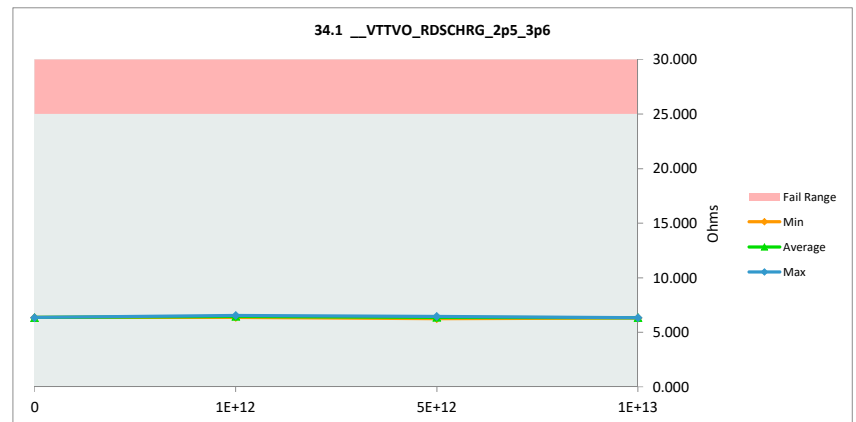
34.1 __ VTTVO_RDSCHRG_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	Ohms Ohms
Max Limit	25 25
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.363	6.348	-0.014
1E+12	2	6.479	6.474	-0.006
1E+12	3	6.372	6.367	-0.006
1E+12	4	6.548	6.544	-0.004
5E+12	5	6.259	6.260	0.001
5E+12	6	6.461	6.453	-0.007
5E+12	7	6.356	6.353	-0.003
1E+13	8	6.308	6.307	-0.001
1E+13	9	6.330	6.333	0.003
1E+13	10	6.332	6.347	0.016
	Max	6.548	6.544	0.016
	Average	6.381	6.379	-0.002
	Min	6.259	6.260	-0.014
	Std Dev	0.088	0.086	0.008



34.1 __ VTTVO_RDSCHRG_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	25 Ohms
Min Limit	Ohms

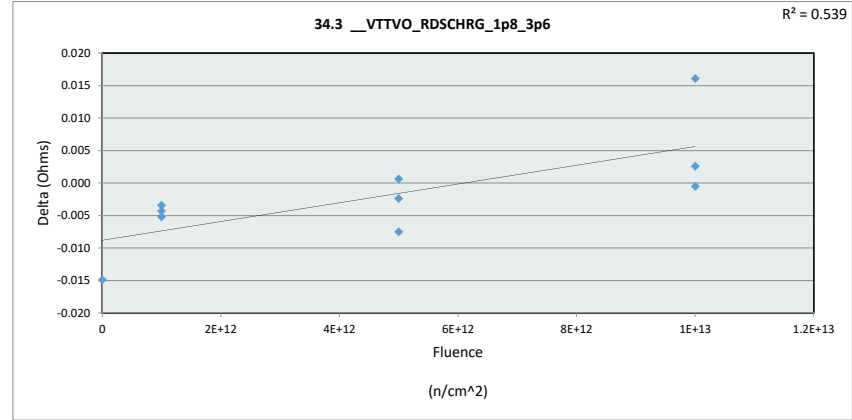
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	6.348	6.367	6.260	6.307
Average	6.348	6.461	6.356	6.329
Max	6.348	6.544	6.454	6.347
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

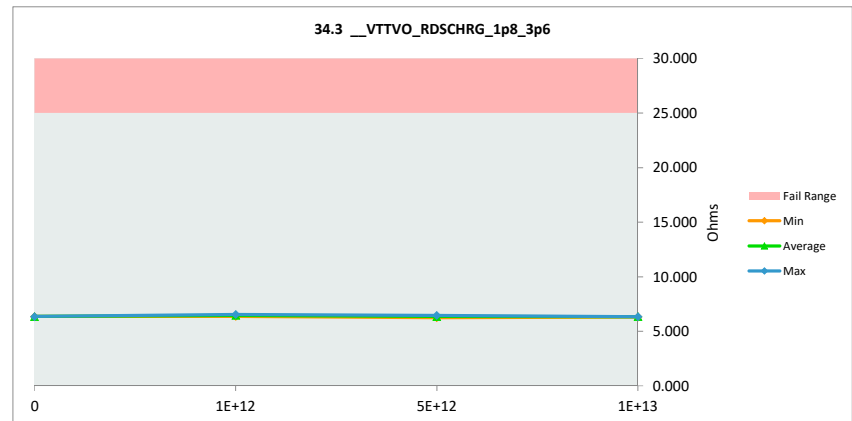
34.3 __VTTVO_RDSCHRG_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	Ohms	Ohms
Max Limit	25	25
Min Limit		

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.361	6.346	-0.015
1E+12	2	6.477	6.472	-0.005
1E+12	3	6.370	6.365	-0.004
1E+12	4	6.546	6.542	-0.003
5E+12	5	6.258	6.258	0.001
5E+12	6	6.459	6.451	-0.008
5E+12	7	6.355	6.352	-0.002
1E+13	8	6.306	6.306	-0.001
1E+13	9	6.329	6.332	0.003
1E+13	10	6.330	6.346	0.016
	Max	6.546	6.542	0.016
	Average	6.379	6.377	-0.002
	Min	6.258	6.258	-0.015
	Std Dev	0.088	0.086	0.008



34.3 __VTTVO_RDSCHRG_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	25	Ohms
Min Limit		Ohms

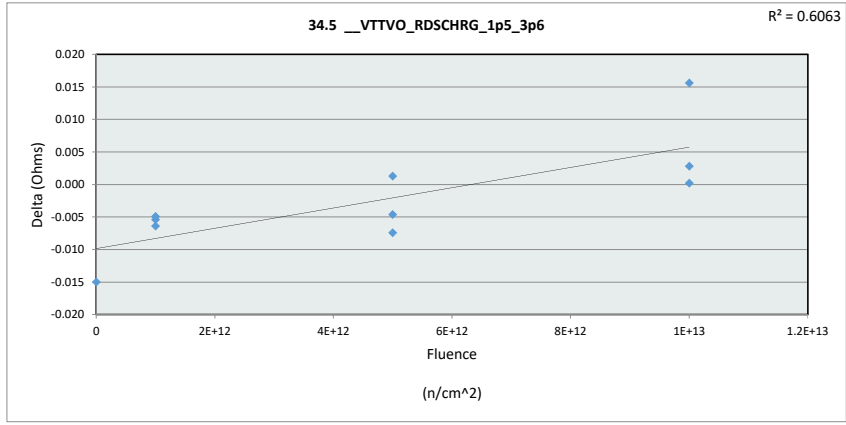
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	6.346	6.365	6.258	6.306
Average	6.346	6.460	6.354	6.328
Max	6.346	6.542	6.451	6.346
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

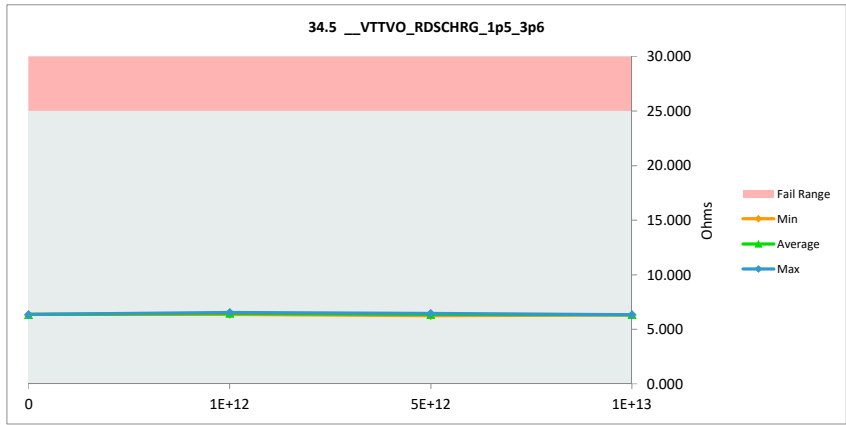
34.5 __ VTTVO_RDSCHRG_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	Ohms Ohms
Max Limit	25 25
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.360	6.345	-0.015
1E+12	2	6.476	6.470	-0.005
1E+12	3	6.370	6.363	-0.006
1E+12	4	6.544	6.539	-0.005
5E+12	5	6.256	6.257	0.001
5E+12	6	6.457	6.450	-0.007
5E+12	7	6.354	6.349	-0.005
1E+13	8	6.304	6.305	0.000
1E+13	9	6.328	6.331	0.003
1E+13	10	6.328	6.344	0.016
	Max	6.544	6.539	0.016
	Average	6.378	6.375	-0.002
	Min	6.256	6.257	-0.015
	Std Dev	0.088	0.085	0.008



34.5 __ VTTVO_RDSCHRG_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	25 Ohms
Min Limit	Ohms

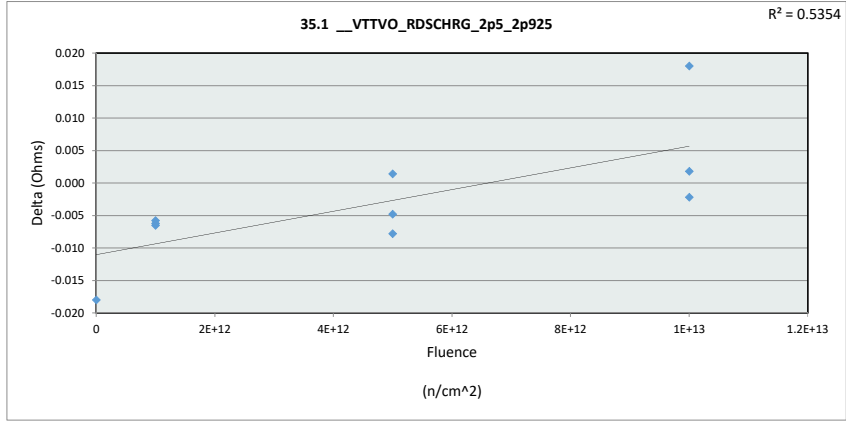
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	6.345	6.363	6.257	6.305
Average	6.345	6.458	6.352	6.326
Max	6.345	6.539	6.450	6.344
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

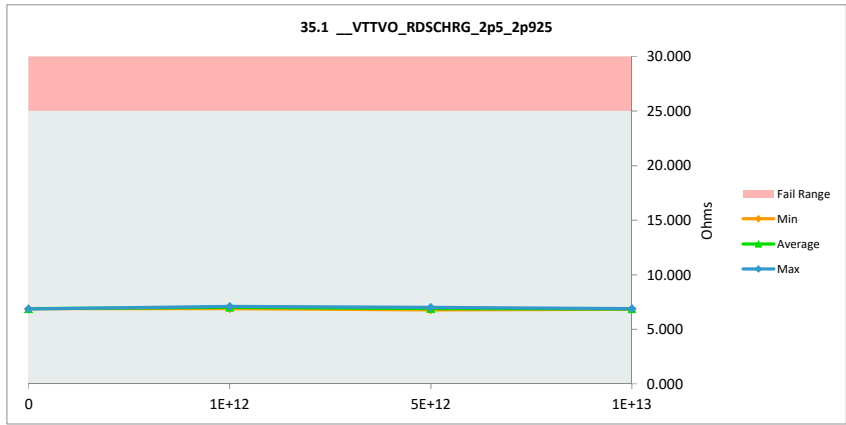
35.1 __ VTTVO_RDSCHRG_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	Ohms	Ohms
Max Limit	25	25
Min Limit		

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	6.894	6.876	-0.018
1E+12	2	7.034	7.028	-0.006
1E+12	3	6.906	6.900	-0.006
1E+12	4	7.107	7.100	-0.006
5E+12	5	6.782	6.783	0.001
5E+12	6	7.015	7.007	-0.008
5E+12	7	6.898	6.894	-0.005
1E+13	8	6.838	6.836	-0.002
1E+13	9	6.862	6.864	0.002
1E+13	10	6.868	6.886	0.018
	Max	7.107	7.100	0.018
	Average	6.920	6.917	-0.003
	Min	6.782	6.783	-0.018
	Std Dev	0.100	0.097	0.009



35.1 __ VTTVO_RDSCHRG_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	25	Ohms
Min Limit		Ohms

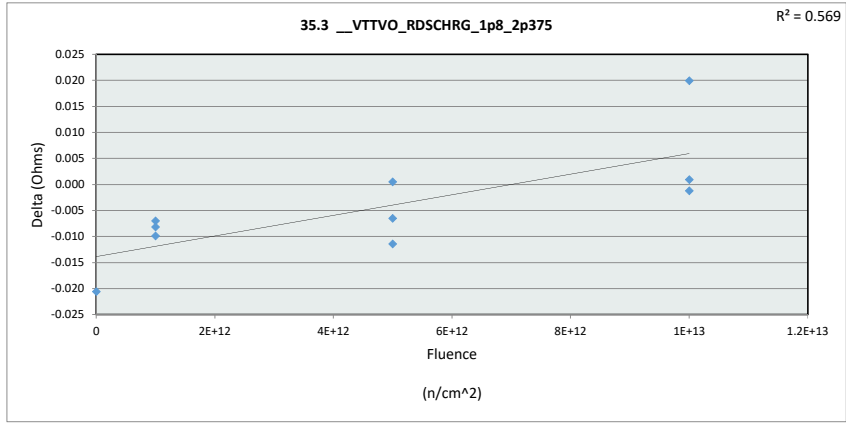
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	6.876	6.901	6.783	6.836
Average	6.876	7.010	6.895	6.862
Max	6.876	7.100	7.007	6.886
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

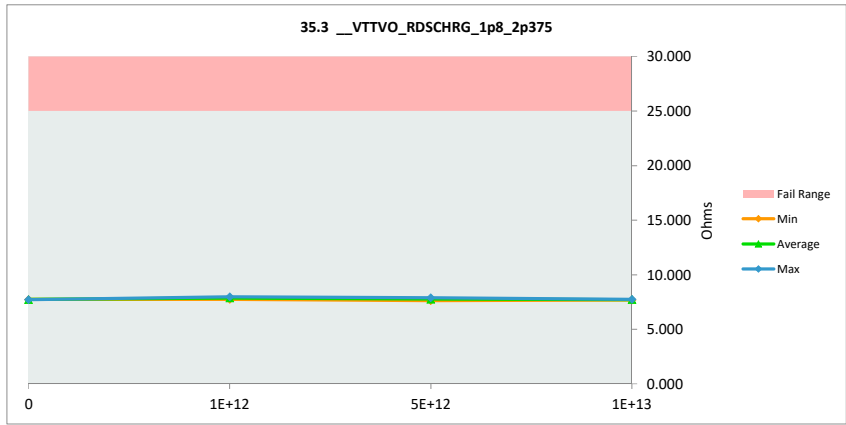
35.3 __ VTTVO_RDSCHRG_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	Ohms Ohms
Max Limit	25 25
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.744	7.723	-0.021
1E+12	2	7.914	7.905	-0.010
1E+12	3	7.760	7.752	-0.008
1E+12	4	7.978	7.971	-0.007
5E+12	5	7.619	7.620	0.000
5E+12	6	7.892	7.880	-0.011
5E+12	7	7.766	7.759	-0.007
1E+13	8	7.684	7.683	-0.001
1E+13	9	7.705	7.706	0.001
1E+13	10	7.725	7.745	0.020
	Max	7.978	7.971	0.020
	Average	7.779	7.774	-0.004
	Min	7.619	7.620	-0.021
	Std Dev	0.113	0.110	0.011



35.3 __ VTTVO_RDSCHRG_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	25 Ohms
Min Limit	Ohms

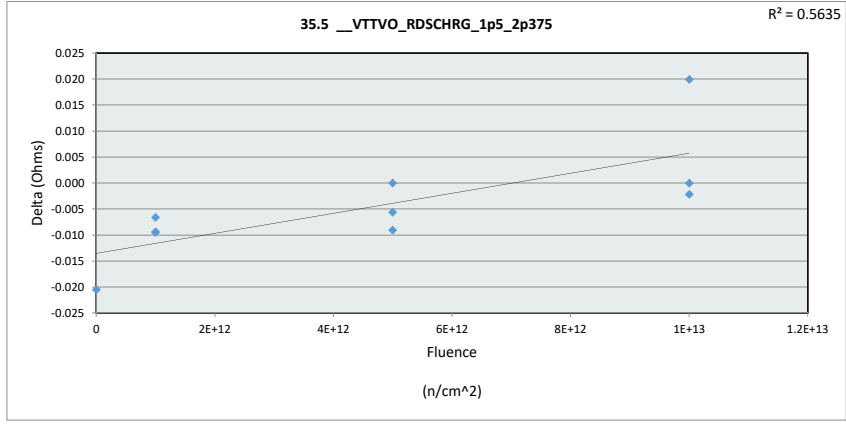
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	7.723	7.752	7.620	7.683
Average	7.723	7.876	7.753	7.711
Max	7.723	7.971	7.880	7.745
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

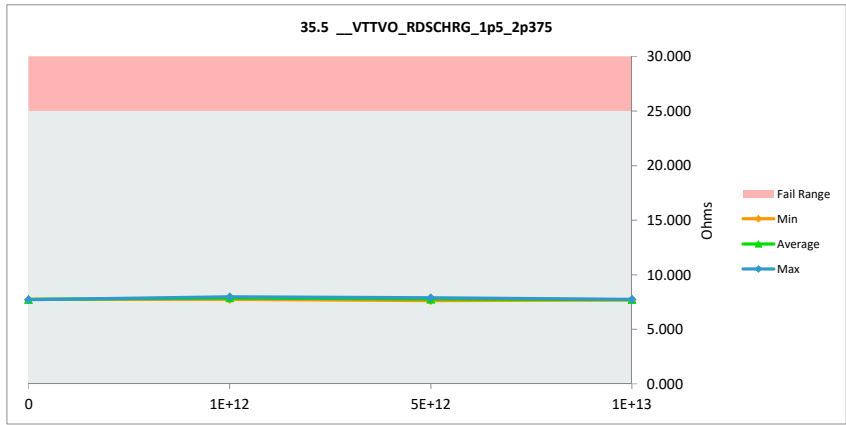
35.5 __VTTVO_RDSCHRG_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	Ohms	Ohms
Max Limit	25	25
Min Limit		

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	7.742	7.721	-0.021
1E+12	2	7.911	7.902	-0.009
1E+12	3	7.758	7.749	-0.010
1E+12	4	7.975	7.969	-0.007
5E+12	5	7.617	7.617	0.000
5E+12	6	7.890	7.880	-0.009
5E+12	7	7.763	7.758	-0.006
1E+13	8	7.682	7.680	-0.002
1E+13	9	7.704	7.704	0.000
1E+13	10	7.722	7.742	0.020
	Max	7.975	7.969	0.020
	Average	7.776	7.772	-0.004
	Min	7.617	7.617	-0.021
	Std Dev	0.113	0.110	0.010



35.5 __VTTVO_RDSCHRG_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	25	Ohms
Min Limit		Ohms

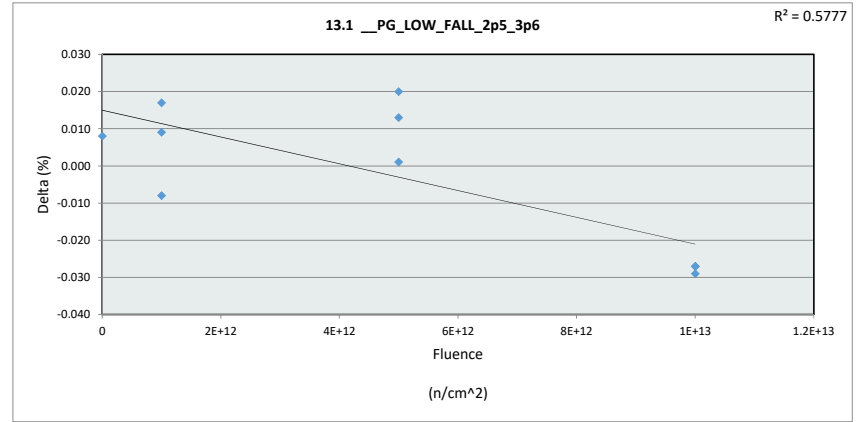
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	7.721	7.749	7.617	7.680
Average	7.721	7.873	7.752	7.708
Max	7.721	7.969	7.881	7.742
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

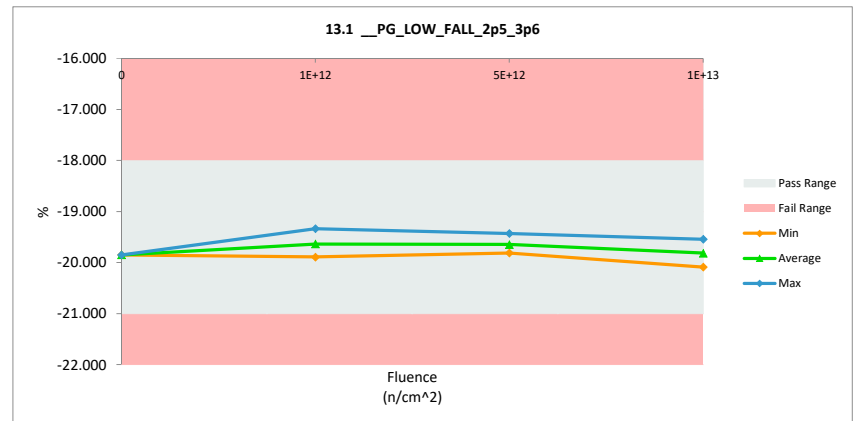
13.1 __PG_LOW_FALL_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-18	-18
Min Limit	-21	-21

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-19.861	-19.853	0.008
1E+12	2	-19.331	-19.339	-0.008
1E+12	3	-19.699	-19.690	0.009
1E+12	4	-19.912	-19.895	0.017
5E+12	5	-19.832	-19.812	0.020
5E+12	6	-19.709	-19.708	0.001
5E+12	7	-19.445	-19.432	0.013
1E+13	8	-19.519	-19.546	-0.027
1E+13	9	-20.063	-20.092	-0.029
1E+13	10	-19.787	-19.814	-0.027
	Max	-19.331	-19.339	0.020
	Average	-19.716	-19.718	-0.002
	Min	-20.063	-20.092	-0.029
	Std Dev	0.226	0.227	0.019



13.1 __PG_LOW_FALL_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-18	%
Min Limit	-21	%

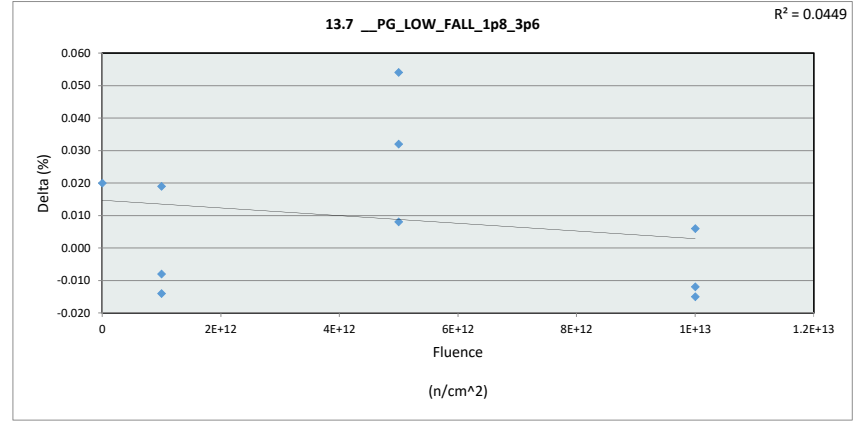
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-21.000	-21.000	-21.000	-21.000
Min	-19.853	-19.895	-19.812	-20.092
Average	-19.853	-19.641	-19.651	-19.817
Max	-19.853	-19.339	-19.432	-19.546
UL	-18.000	-18.000	-18.000	-18.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

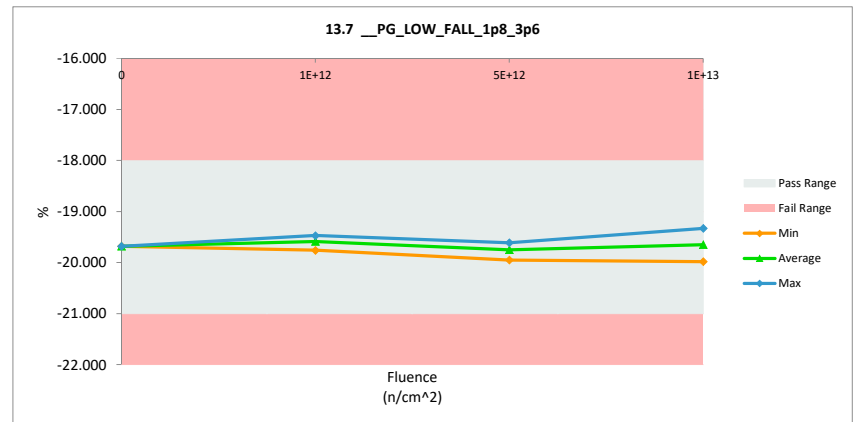
13.7 __PG_LOW_FALL_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-18	-18
Min Limit	-21	-21

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-19.704	-19.684	0.020
1E+12	2	-19.522	-19.536	-0.014
1E+12	3	-19.492	-19.473	0.019
1E+12	4	-19.754	-19.762	-0.008
5E+12	5	-19.686	-19.678	0.008
5E+12	6	-19.985	-19.953	0.032
5E+12	7	-19.670	-19.616	0.054
1E+13	8	-19.314	-19.329	-0.015
1E+13	9	-19.971	-19.983	-0.012
1E+13	10	-19.656	-19.650	0.006
	Max	-19.314	-19.329	0.054
	Average	-19.675	-19.666	0.009
	Min	-19.985	-19.983	-0.015
	Std Dev	0.205	0.201	0.023



13.7 __PG_LOW_FALL_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-18	%
Min Limit	-21	%

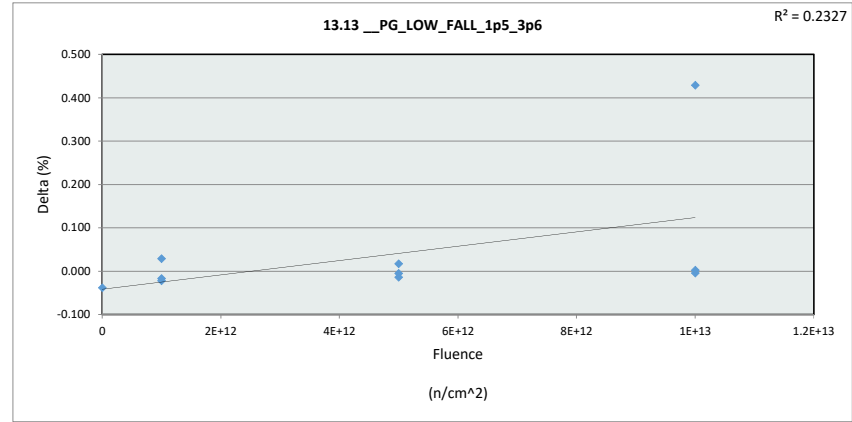
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-21.000	-21.000	-21.000	-21.000
Min	-19.684	-19.762	-19.953	-19.983
Average	-19.684	-19.590	-19.749	-19.654
Max	-19.684	-19.473	-19.616	-19.329
UL	-18.000	-18.000	-18.000	-18.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

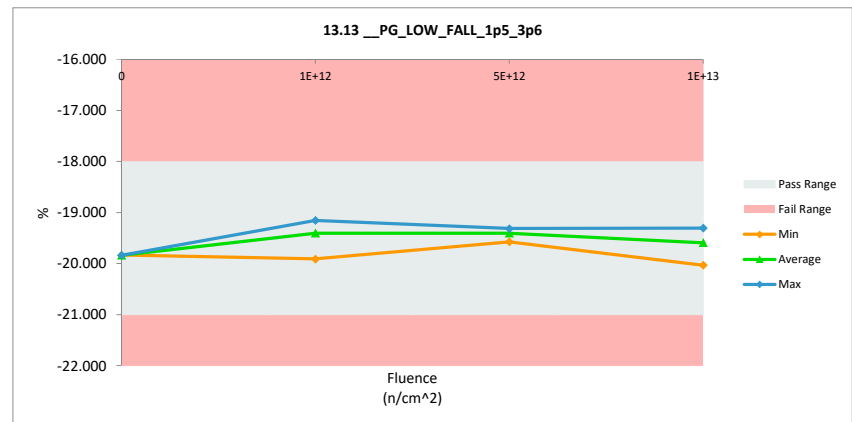
13.13 PG_LOW_FALL_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-18	-18
Min Limit	-21	-21

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-19.801	-19.839	-0.038
1E+12	2	-19.143	-19.160	-0.017
1E+12	3	-19.133	-19.155	-0.022
1E+12	4	-19.942	-19.913	0.029
5E+12	5	-19.334	-19.317	0.017
5E+12	6	-19.571	-19.576	-0.005
5E+12	7	-19.314	-19.328	-0.014
1E+13	8	-19.449	-19.447	0.002
1E+13	9	-20.030	-20.034	-0.004
1E+13	10	-19.736	-19.307	0.429
	Max	-19.133	-19.155	0.429
	Average	-19.545	-19.508	0.038
	Min	-20.030	-20.034	-0.038
	Std Dev	0.322	0.319	0.139



13.13 PG_LOW_FALL_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-18	%
Min Limit	-21	%

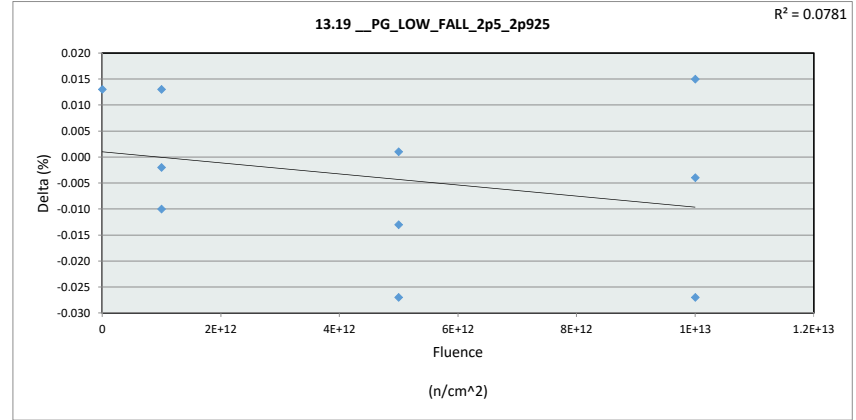
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-21.000	-21.000	-21.000	-21.000
Min	-19.839	-19.913	-19.576	-20.034
Average	-19.839	-19.409	-19.407	-19.596
Max	-19.839	-19.155	-19.317	-19.307
UL	-18.000	-18.000	-18.000	-18.000



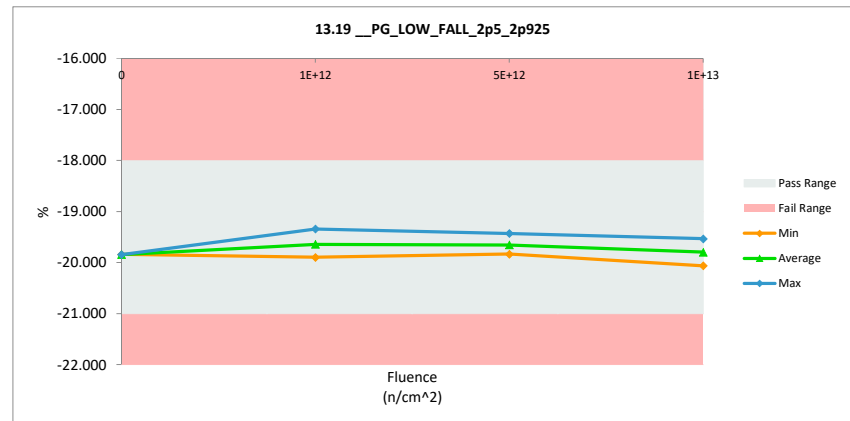
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

13.19 PG LOW FALL 2p5 2p925		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-18	-18
Min Limit	-21	-21

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-19.858	-19.845	0.013
1E+12	2	-19.339	-19.341	-0.002
1E+12	3	-19.677	-19.687	-0.010
1E+12	4	-19.912	-19.899	0.013
5E+12	5	-19.809	-19.836	-0.027
5E+12	6	-19.696	-19.709	-0.013
5E+12	7	-19.433	-19.432	0.001
1E+13	8	-19.510	-19.537	-0.027
1E+13	9	-20.083	-20.068	0.015
1E+13	10	-19.787	-19.791	-0.004
	Max	-19.339	-19.341	0.015
	Average	-19.710	-19.715	-0.004
	Min	-20.083	-20.068	-0.027
	Std Dev	0.229	0.223	0.015



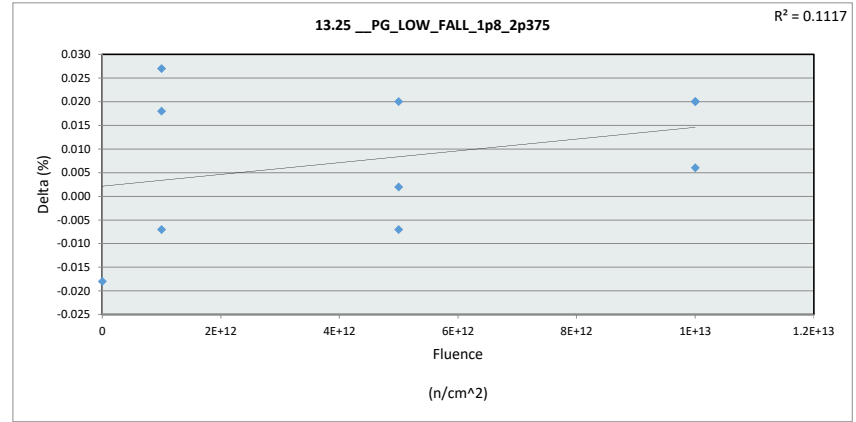
13.19 PG LOW FALL 2p5 2p925				
Test Site				
Tester				
Test Number				
Max Limit	-18		%	
Min Limit	-21		%	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-21.000	-21.000	-21.000	-21.000
Min	-19.845	-19.899	-19.836	-20.068
Average	-19.845	-19.642	-19.659	-19.799
Max	-19.845	-19.341	-19.432	-19.537
UL	-18.000	-18.000	-18.000	-18.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

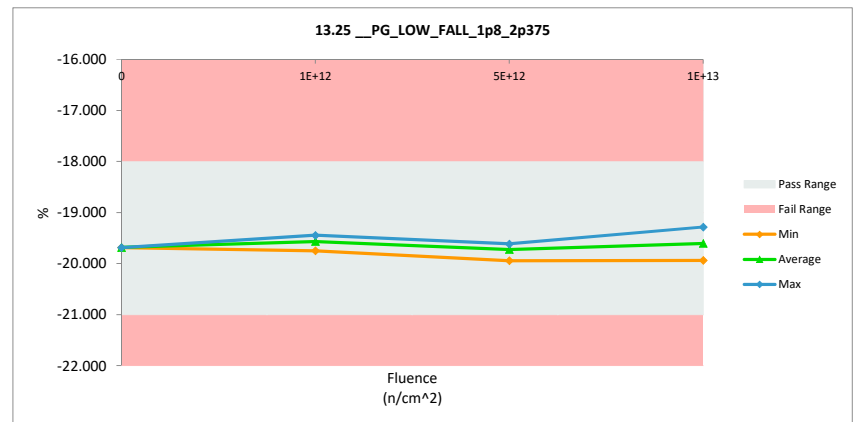
13.25 PG_LOW_FALL_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-18	-18
Min Limit	-21	-21

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-19.668	-19.686	-0.018
1E+12	2	-19.510	-19.517	-0.007
1E+12	3	-19.475	-19.448	0.027
1E+12	4	-19.770	-19.752	0.018
5E+12	5	-19.642	-19.622	0.020
5E+12	6	-19.940	-19.947	-0.007
5E+12	7	-19.620	-19.618	0.002
1E+13	8	-19.304	-19.284	0.020
1E+13	9	-19.947	-19.941	0.006
1E+13	10	-19.618	-19.598	0.020
	Max	-19.304	-19.284	0.027
	Average	-19.649	-19.641	0.008
	Min	-19.947	-19.947	-0.018
	Std Dev	0.200	0.206	0.015



13.25 PG_LOW_FALL_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	-18	%
Min Limit	-21	%

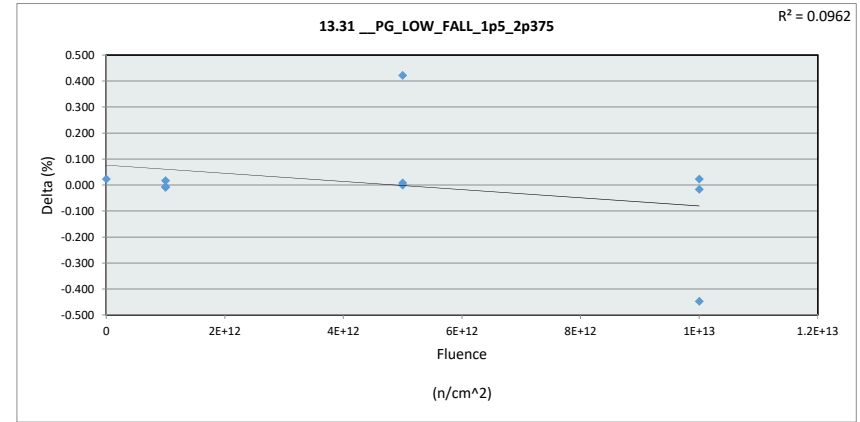
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-21.000	-21.000	-21.000	-21.000
Min	-19.686	-19.752	-19.947	-19.941
Average	-19.686	-19.572	-19.729	-19.608
Max	-19.686	-19.448	-19.618	-19.284
UL	-18.000	-18.000	-18.000	-18.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

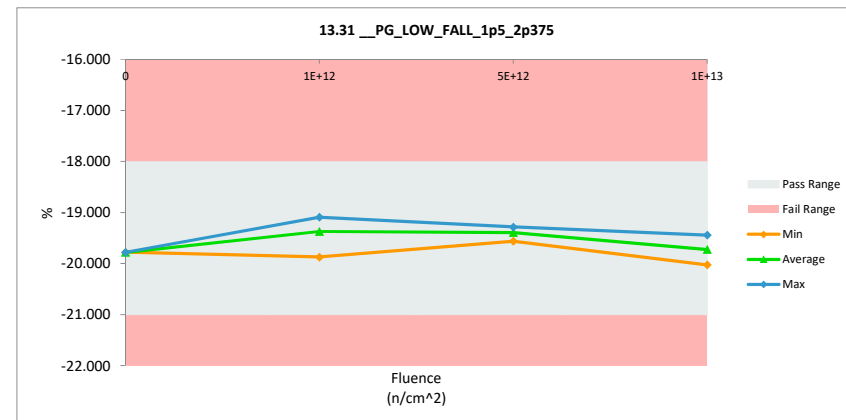
13.31 PG_LOW_FALL_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-18	-18
Min Limit	-21	-21

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-19.803	-19.780	0.023
1E+12	2	-19.140	-19.147	-0.007
1E+12	3	-19.111	-19.094	0.017
1E+12	4	-19.866	-19.875	-0.009
5E+12	5	-19.760	-19.338	0.422
5E+12	6	-19.573	-19.565	0.008
5E+12	7	-19.285	-19.285	0.000
1E+13	8	-18.997	-19.444	-0.447
1E+13	9	-20.010	-20.027	-0.017
1E+13	10	-19.731	-19.708	0.023
	Max	-18.997	-19.094	0.422
	Average	-19.528	-19.526	0.001
	Min	-20.010	-20.027	-0.447
	Std Dev	0.363	0.317	0.205



13.31 PG_LOW_FALL_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	-18	%
Min Limit	-21	%

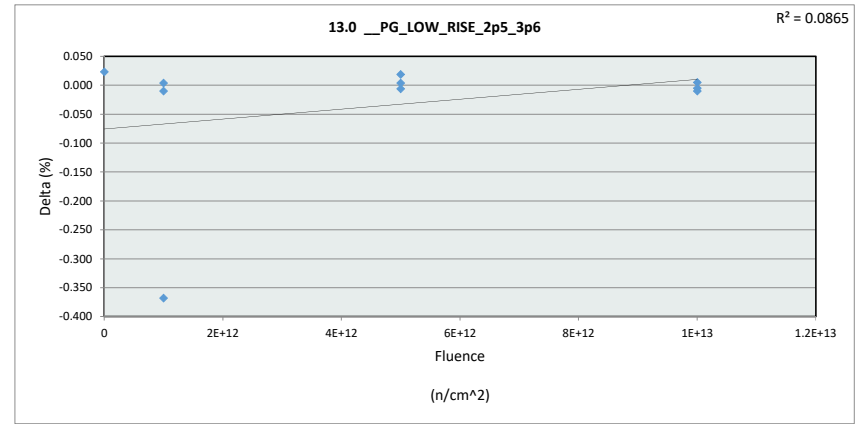
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-21.000	-21.000	-21.000	-21.000
Min	-19.780	-19.875	-19.565	-20.027
Average	-19.780	-19.372	-19.396	-19.726
Max	-19.780	-19.094	-19.285	-19.444
UL	-18.000	-18.000	-18.000	-18.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

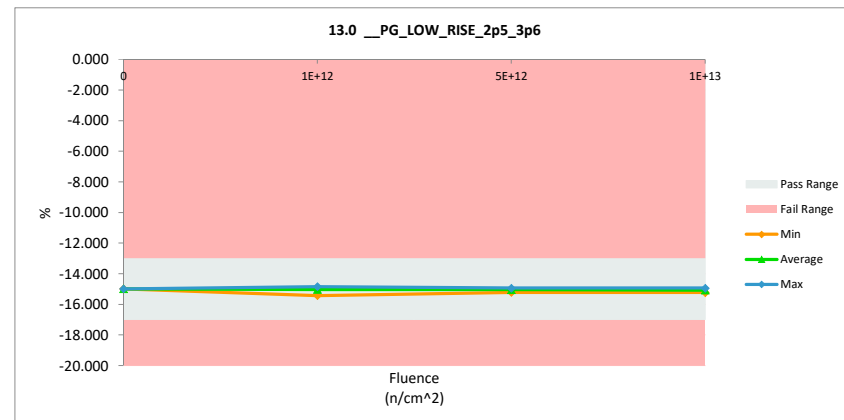
13.0 __ PG_LOW_RISE_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-13	-13
Min Limit	-17	-17

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-15.024	-15.001	0.023
1E+12	2	-14.843	-14.853	-0.010
1E+12	3	-14.844	-14.840	0.004
1E+12	4	-15.074	-15.442	-0.368
5E+12	5	-14.982	-14.963	0.019
5E+12	6	-15.226	-15.232	-0.006
5E+12	7	-14.945	-14.941	0.004
1E+13	8	-15.051	-15.046	0.005
1E+13	9	-15.231	-15.241	-0.010
1E+13	10	-14.945	-14.950	-0.005
	Max	-14.843	-14.840	0.023
	Average	-15.016	-15.051	-0.034
	Min	-15.231	-15.442	-0.368
	Std Dev	0.136	0.194	0.118



13.0 __ PG_LOW_RISE_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-13	%
Min Limit	-17	%

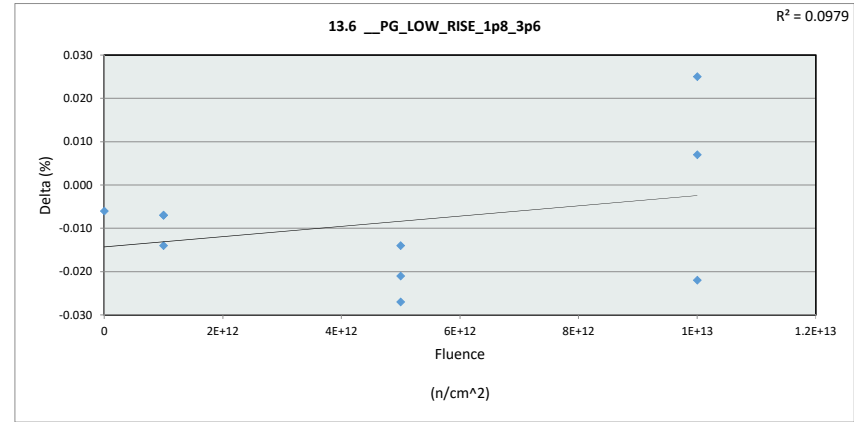
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-17.000	-17.000	-17.000	-17.000
Min	-15.001	-15.442	-15.232	-15.241
Average	-15.001	-15.045	-15.045	-15.079
Max	-15.001	-14.840	-14.941	-14.950
UL	-13.000	-13.000	-13.000	-13.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

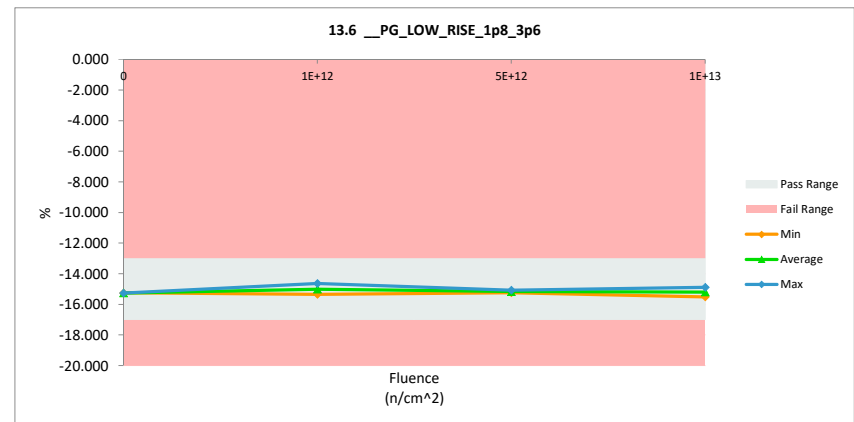
13.6 __PG_LOW_RISE_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-13	-13
Min Limit	-17	-17

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-15.253	-15.259	-0.006
1E+12	2	-14.627	-14.634	-0.007
1E+12	3	-15.037	-15.044	-0.007
1E+12	4	-15.336	-15.350	-0.014
5E+12	5	-15.228	-15.242	-0.014
5E+12	6	-15.056	-15.077	-0.021
5E+12	7	-15.176	-15.203	-0.027
1E+13	8	-14.875	-14.897	-0.022
1E+13	9	-15.520	-15.513	0.007
1E+13	10	-15.223	-15.198	0.025
	Max	-14.627	-14.634	0.025
	Average	-15.133	-15.142	-0.009
	Min	-15.520	-15.513	-0.027
	Std Dev	0.250	0.246	0.015



13.6 __PG_LOW_RISE_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-13	%
Min Limit	-17	%

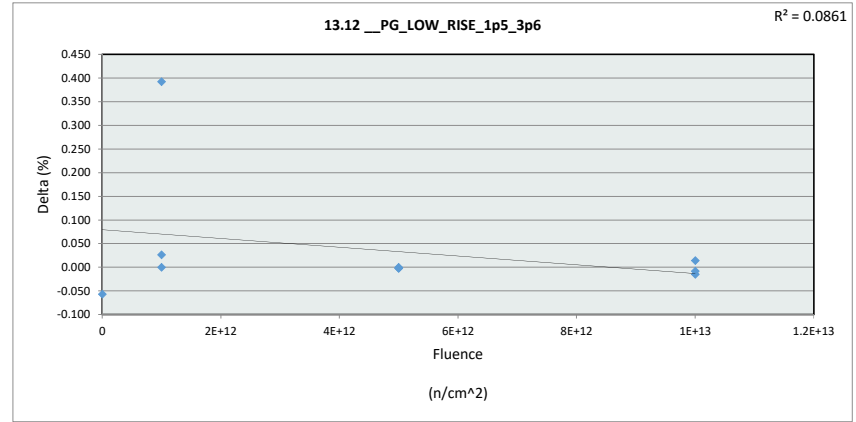
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-17.000	-17.000	-17.000	-17.000
Min	-15.259	-15.350	-15.242	-15.513
Average	-15.259	-15.009	-15.174	-15.203
Max	-15.259	-14.634	-15.077	-14.897
UL	-13.000	-13.000	-13.000	-13.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

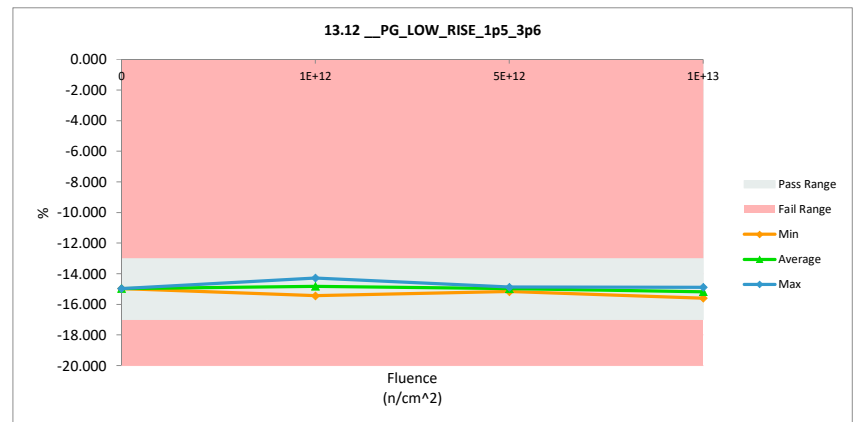
13.12_PG_LOW_RISE_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-13	-13
Min Limit	-17	-17

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-14.922	-14.979	-0.057
1E+12	2	-14.732	-14.732	0.000
1E+12	3	-14.679	-14.287	0.392
1E+12	4	-15.469	-15.443	0.026
5E+12	5	-14.923	-14.925	-0.002
5E+12	6	-15.171	-15.173	-0.002
5E+12	7	-14.879	-14.879	0.000
1E+13	8	-15.029	-15.037	-0.008
1E+13	9	-15.588	-15.603	-0.015
1E+13	10	-14.909	-14.895	0.014
	Max	-14.679	-14.287	0.392
	Average	-15.030	-14.995	0.035
	Min	-15.588	-15.603	-0.057
	Std Dev	0.297	0.366	0.127



13.12_PG_LOW_RISE_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	-13	%
Min Limit	-17	%

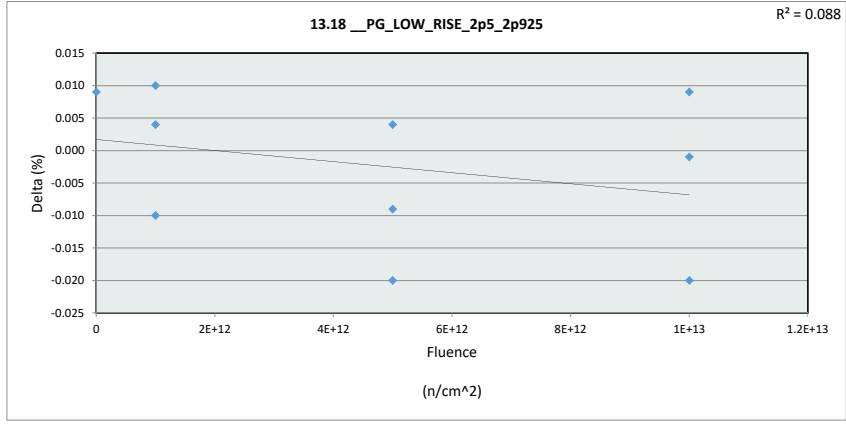
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-17.000	-17.000	-17.000	-17.000
Min	-14.979	-15.443	-15.173	-15.603
Average	-14.979	-14.821	-14.992	-15.178
Max	-14.979	-14.287	-14.879	-14.895
UL	-13.000	-13.000	-13.000	-13.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

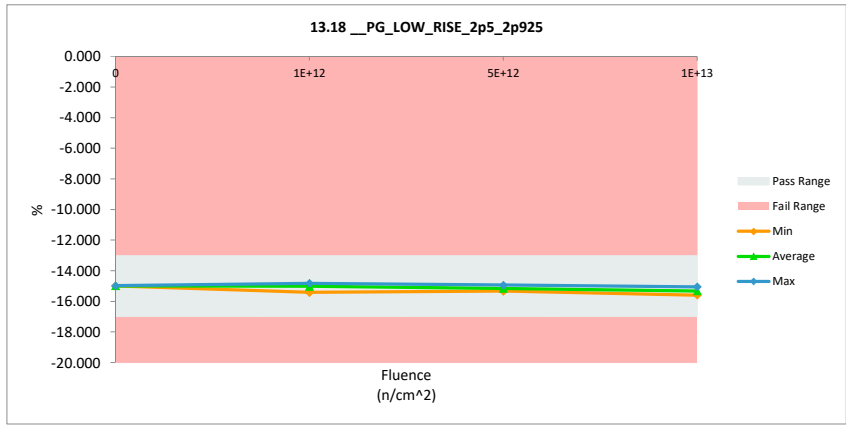
13.18 PG_LOW_RISE_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-13	-13
Min Limit	-17	-17

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-14.996	-14.987	0.009
1E+12	2	-14.863	-14.853	0.010
1E+12	3	-14.825	-14.821	0.004
1E+12	4	-15.418	-15.428	-0.010
5E+12	5	-15.326	-15.346	-0.020
5E+12	6	-15.213	-15.209	0.004
5E+12	7	-14.941	-14.950	-0.009
1E+13	8	-15.055	-15.046	0.009
1E+13	9	-15.600	-15.601	-0.001
1E+13	10	-15.294	-15.314	-0.020
	Max	-14.825	-14.821	0.010
	Average	-15.153	-15.155	-0.002
	Min	-15.600	-15.601	-0.020
	Std Dev	0.257	0.263	0.012



13.18 PG_LOW_RISE_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	-13	%
Min Limit	-17	%

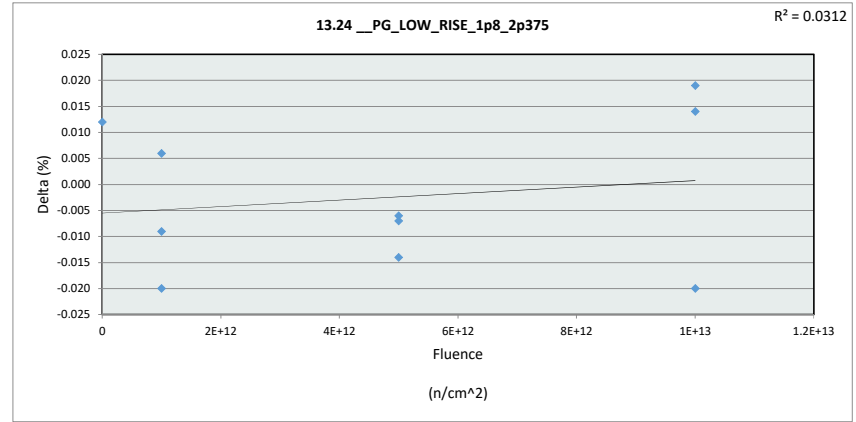
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-17.000	-17.000	-17.000	-17.000
Min	-14.987	-15.428	-15.346	-15.601
Average	-14.987	-15.034	-15.168	-15.320
Max	-14.987	-14.821	-14.950	-15.046
UL	-13.000	-13.000	-13.000	-13.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

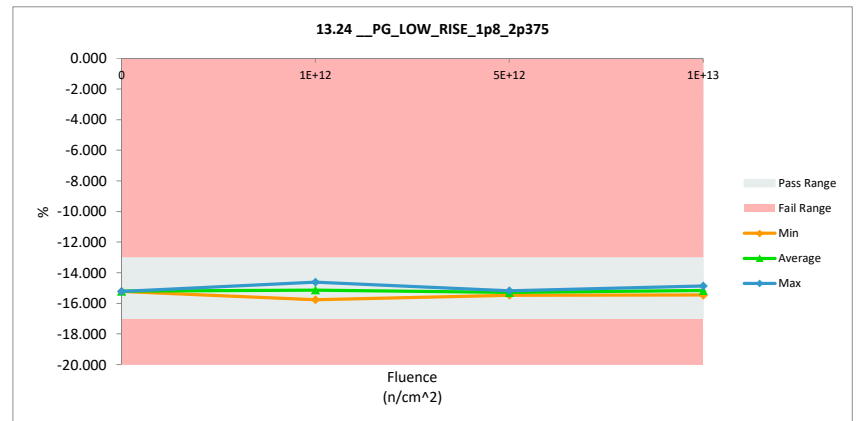
13.24 PG_LOW_RISE_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	-13
Min Limit	-17

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-15.234	-15.222	0.012
1E+12	2	-14.615	-14.609	0.006
1E+12	3	-15.011	-15.020	-0.009
1E+12	4	-15.745	-15.765	-0.020
5E+12	5	-15.216	-15.223	-0.007
5E+12	6	-15.467	-15.481	-0.014
5E+12	7	-15.178	-15.184	-0.006
1E+13	8	-14.856	-14.876	-0.020
1E+13	9	-15.492	-15.473	0.019
1E+13	10	-15.199	-15.185	0.014
	Max	-14.615	-14.609	0.019
	Average	-15.201	-15.204	-0.003
	Min	-15.745	-15.765	-0.020
	Std Dev	0.325	0.327	0.014



13.24 PG_LOW_RISE_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	-13
Min Limit	-17

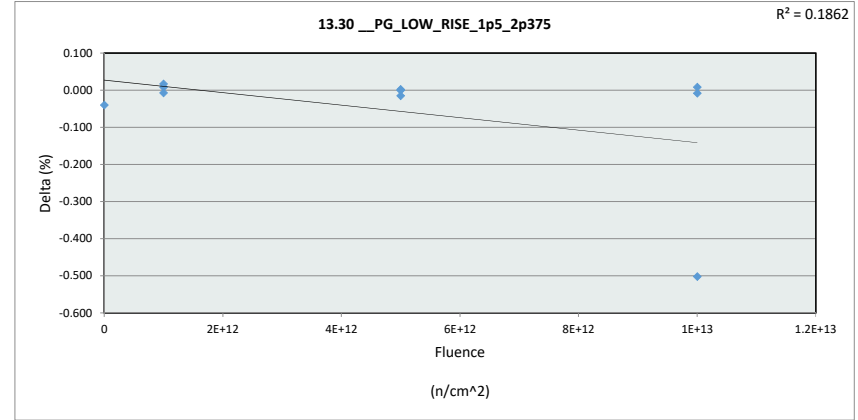
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-17.000	-17.000	-17.000	-17.000
Min	-15.222	-15.765	-15.481	-15.473
Average	-15.222	-15.131	-15.296	-15.178
Max	-15.222	-14.609	-15.184	-14.876
UL	-13.000	-13.000	-13.000	-13.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

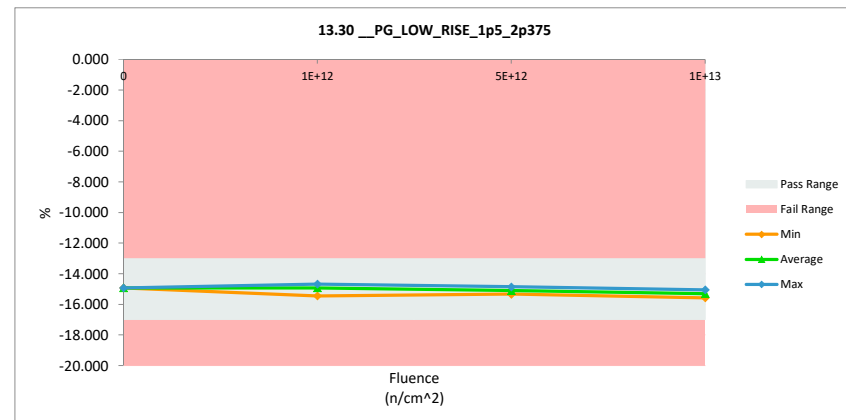
13.30 PG_LOW_RISE_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	-13	-13
Min Limit	-17	-17

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-14.891	-14.931	-0.040
1E+12	2	-14.703	-14.686	0.017
1E+12	3	-14.680	-14.672	0.008
1E+12	4	-15.454	-15.461	-0.007
5E+12	5	-15.340	-15.340	0.000
5E+12	6	-15.135	-15.133	0.002
5E+12	7	-14.848	-14.863	-0.015
1E+13	8	-14.546	-15.048	-0.502
1E+13	9	-15.565	-15.573	-0.008
1E+13	10	-15.325	-15.317	0.008
	Max	-14.546	-14.672	0.017
	Average	-15.049	-15.102	-0.054
	Min	-15.565	-15.573	-0.502
	Std Dev	0.361	0.317	0.158



13.30 PG_LOW_RISE_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	-13	%
Min Limit	-17	%

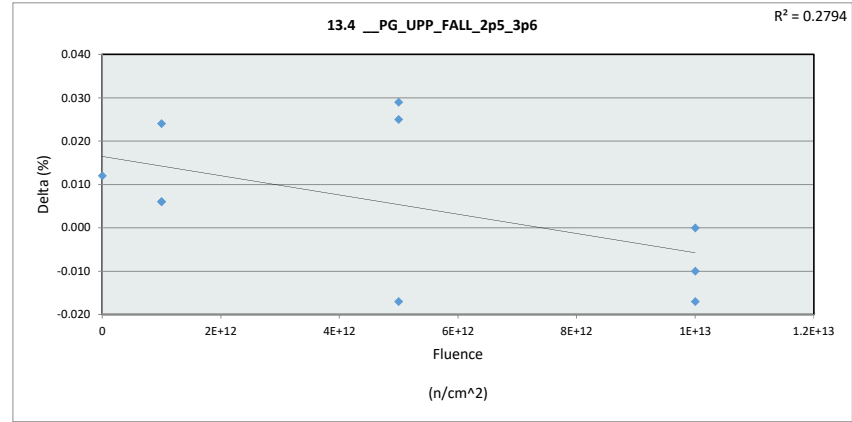
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-17.000	-17.000	-17.000	-17.000
Min	-14.931	-15.461	-15.340	-15.573
Average	-14.931	-14.940	-15.112	-15.313
Max	-14.931	-14.672	-14.863	-15.048
UL	-13.000	-13.000	-13.000	-13.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

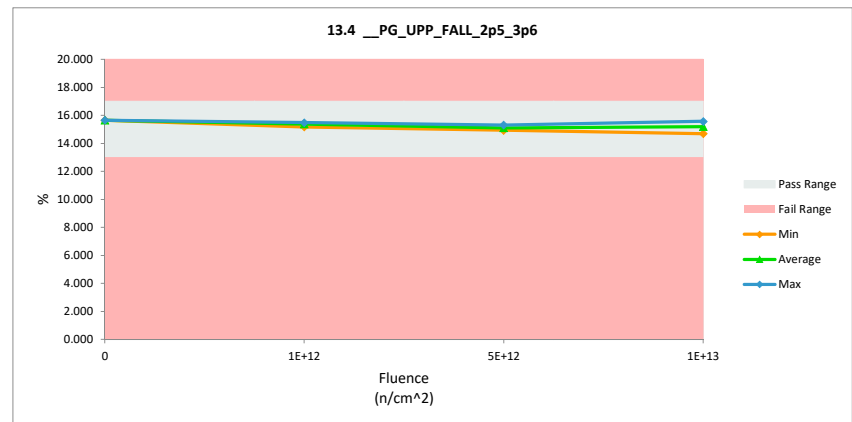
13.4 __PG_UPP_FALL_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	17	17
Min Limit	13	13

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.624	15.636	0.012
1E+12	2	15.435	15.459	0.024
1E+12	3	15.464	15.470	0.006
1E+12	4	15.159	15.165	0.006
5E+12	5	14.895	14.924	0.029
5E+12	6	15.054	15.079	0.025
5E+12	7	15.331	15.314	-0.017
1E+13	8	15.568	15.558	-0.010
1E+13	9	14.705	14.688	-0.017
1E+13	10	15.321	15.321	0.000
	Max	15.624	15.636	0.029
	Average	15.256	15.261	0.006
	Min	14.705	14.688	-0.017
	Std Dev	0.299	0.299	0.017



13.4 __PG_UPP_FALL_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	17	%
Min Limit	13	%

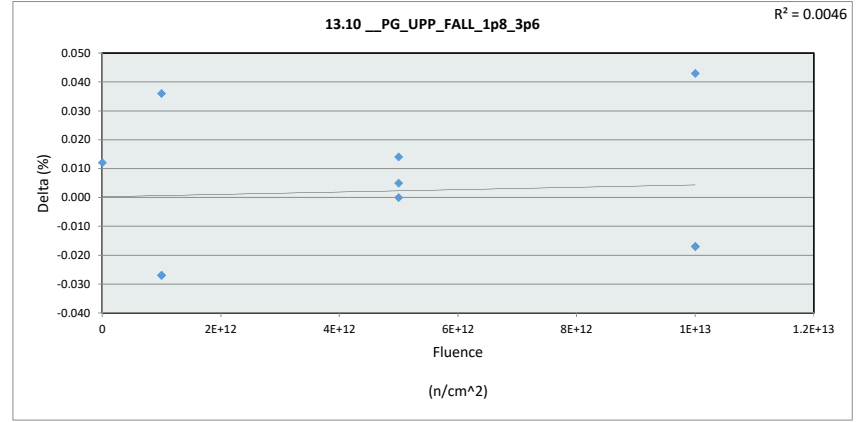
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	13.000	13.000	13.000	13.000
Min	15.636	15.165	14.924	14.688
Average	15.636	15.365	15.106	15.189
Max	15.636	15.470	15.314	15.558
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

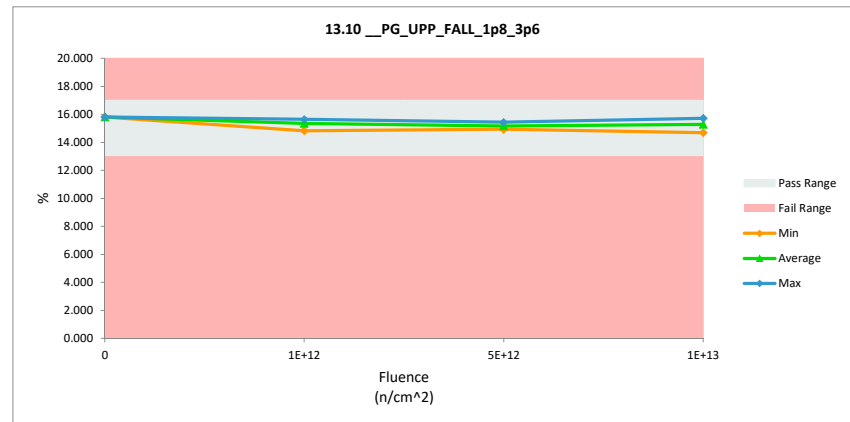
13.10_PG_UPP_FALL_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	17
Min Limit	13

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.786	15.798	0.012
1E+12	2	15.608	15.581	-0.027
1E+12	3	15.660	15.633	-0.027
1E+12	4	14.778	14.814	0.036
5E+12	5	14.924	14.924	0.000
5E+12	6	15.165	15.170	0.005
5E+12	7	15.416	15.430	0.014
1E+13	8	15.672	15.715	0.043
1E+13	9	14.709	14.692	-0.017
1E+13	10	15.425	15.408	-0.017
Max		15.786	15.798	0.043
Average		15.314	15.317	0.002
Min		14.709	14.692	-0.027
Std Dev		0.395	0.394	0.025



13.10_PG_UPP_FALL_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	17
Min Limit	13

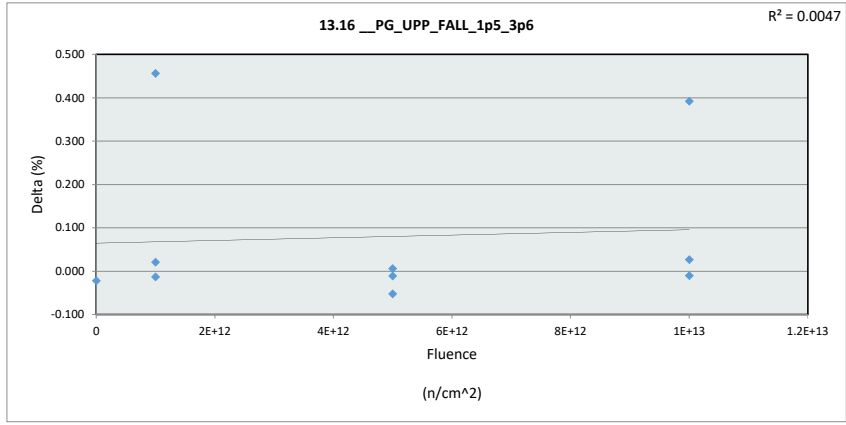
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	13.000	13.000	13.000	13.000
Min	15.798	14.814	14.924	14.692
Average	15.798	15.343	15.175	15.272
Max	15.798	15.633	15.430	15.715
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

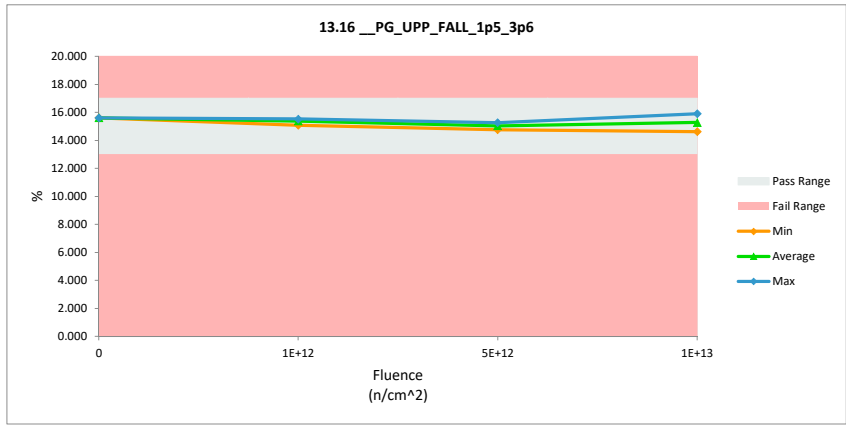
13.16_PG_UPP_FALL_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	17
Min Limit	13

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.623	15.601	-0.022
1E+12	2	15.473	15.494	0.021
1E+12	3	15.530	15.517	-0.013
1E+12	4	14.619	15.075	0.456
5E+12	5	14.757	14.746	-0.011
5E+12	6	15.045	15.051	0.006
5E+12	7	15.312	15.260	-0.052
1E+13	8	15.499	15.891	0.392
1E+13	9	14.598	14.625	0.027
1E+13	10	15.281	15.271	-0.010
	Max	15.623	15.891	0.456
	Average	15.174	15.253	0.079
	Min	14.598	14.625	-0.052
	Std Dev	0.392	0.392	0.184



13.16_PG_UPP_FALL_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	17
Min Limit	13

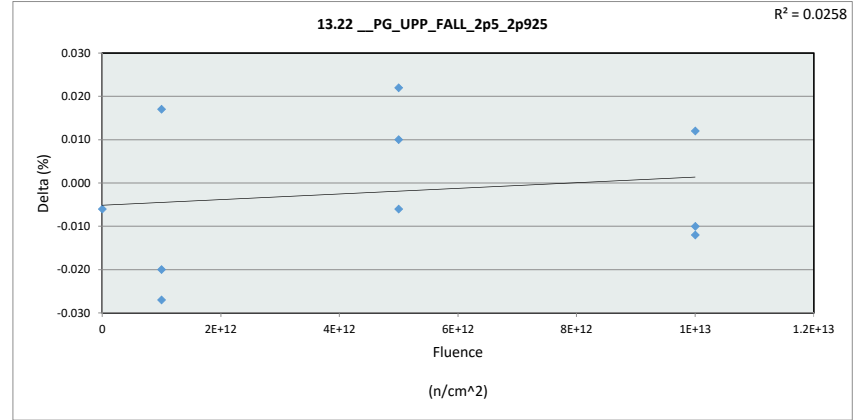
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	13.000	13.000	13.000	13.000
Min	15.601	15.075	14.746	14.625
Average	15.601	15.362	15.019	15.262
Max	15.601	15.517	15.260	15.891
UL	17.000	17.000	17.000	17.000



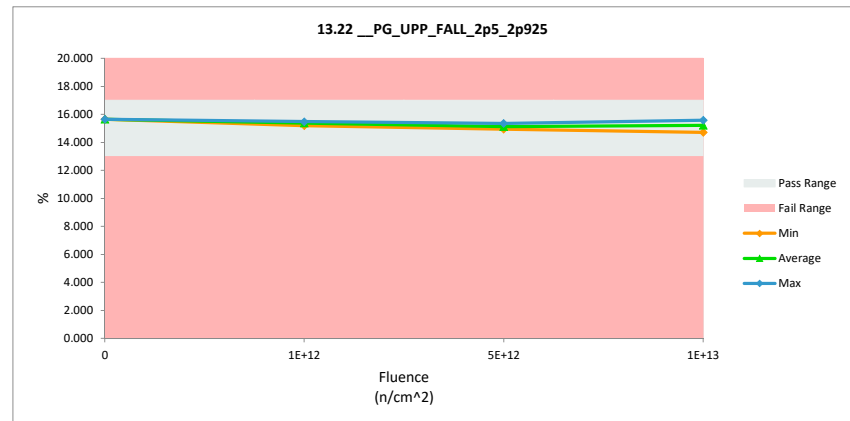
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

13.22 PG_UPP_FALL_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	17
Min Limit	13

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.642	15.636	-0.006
1E+12	2	15.478	15.451	-0.027
1E+12	3	15.493	15.473	-0.020
1E+12	4	15.171	15.188	0.017
5E+12	5	14.918	14.928	0.010
5E+12	6	15.085	15.079	-0.006
5E+12	7	15.321	15.343	0.022
1E+13	8	15.580	15.568	-0.012
1E+13	9	14.707	14.719	0.012
1E+13	10	15.343	15.333	-0.010
	Max	15.642	15.636	0.022
	Average	15.274	15.272	-0.002
	Min	14.707	14.719	-0.027
	Std Dev	0.302	0.292	0.016



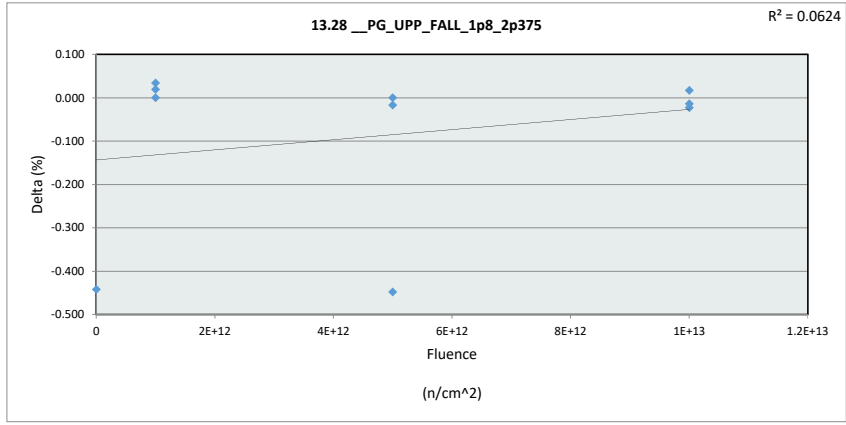
13.22 PG_UPP_FALL_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	17	%		
Min Limit	13	%		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	13.000	13.000	13.000	13.000
Min	15.636	15.188	14.928	14.719
Average	15.636	15.371	15.117	15.207
Max	15.636	15.473	15.343	15.568
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

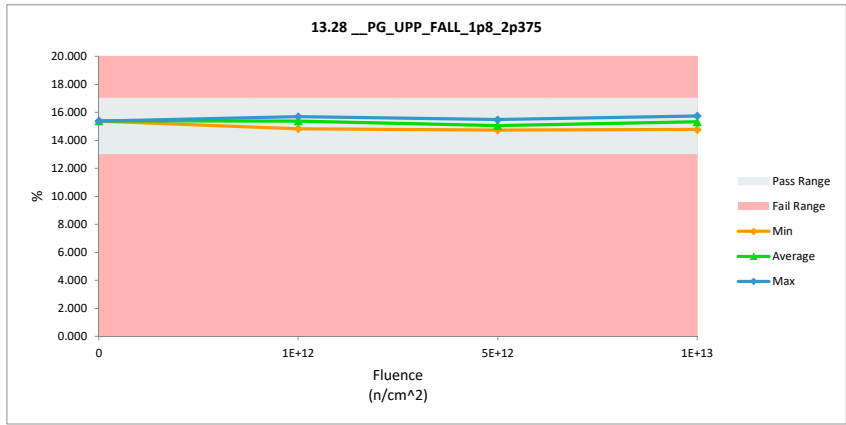
13.28 PG_UPP_FALL_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	17	17
Min Limit	13	13

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.824	15.382	-0.442
1E+12	2	15.607	15.641	0.034
1E+12	3	15.667	15.686	0.019
1E+12	4	14.821	14.821	0.000
5E+12	5	14.980	14.963	-0.017
5E+12	6	15.191	14.743	-0.448
5E+12	7	15.473	15.473	0.000
1E+13	8	15.752	15.729	-0.023
1E+13	9	14.749	14.766	0.017
1E+13	10	15.465	15.451	-0.014
	Max	15.824	15.729	0.034
	Average	15.353	15.265	-0.087
	Min	14.749	14.743	-0.448
	Std Dev	0.392	0.399	0.189



13.28 PG_UPP_FALL_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	17	%
Min Limit	13	%

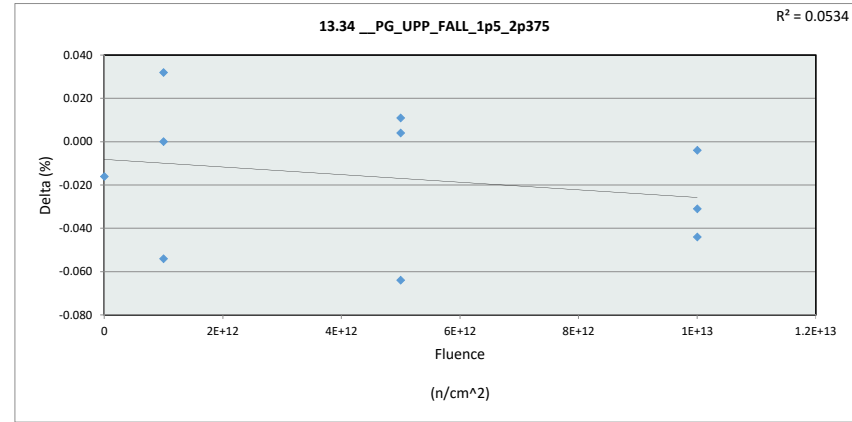
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	13.000	13.000	13.000	13.000
Min	15.382	14.821	14.743	14.766
Average	15.382	15.383	15.060	15.315
Max	15.382	15.686	15.473	15.729
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

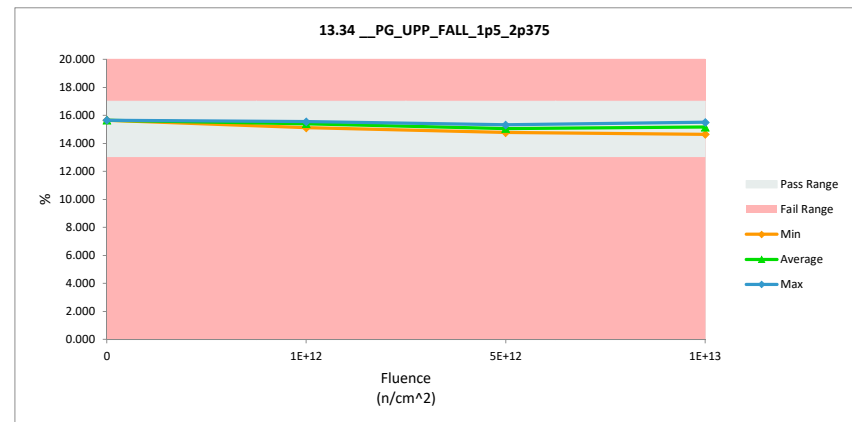
13.34 PG_UPP_FALL_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	17
Min Limit	13

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.654	15.638	-0.016
1E+12	2	15.498	15.530	0.032
1E+12	3	15.598	15.544	-0.054
1E+12	4	15.106	15.106	0.000
5E+12	5	14.831	14.767	-0.064
5E+12	6	15.076	15.087	0.011
5E+12	7	15.312	15.316	0.004
1E+13	8	15.541	15.497	-0.044
1E+13	9	14.639	14.635	-0.004
1E+13	10	15.333	15.302	-0.031
	Max	15.654	15.638	0.032
	Average	15.259	15.242	-0.017
	Min	14.639	14.635	-0.064
	Std Dev	0.340	0.340	0.031



13.34 PG_UPP_FALL_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	17
Min Limit	13

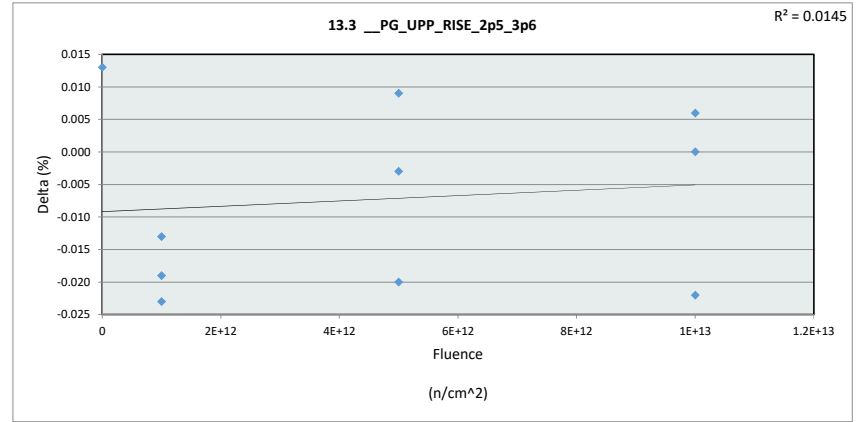
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	13.000	13.000	13.000	13.000
Min	15.638	15.106	14.767	14.635
Average	15.638	15.393	15.057	15.145
Max	15.638	15.544	15.316	15.497
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

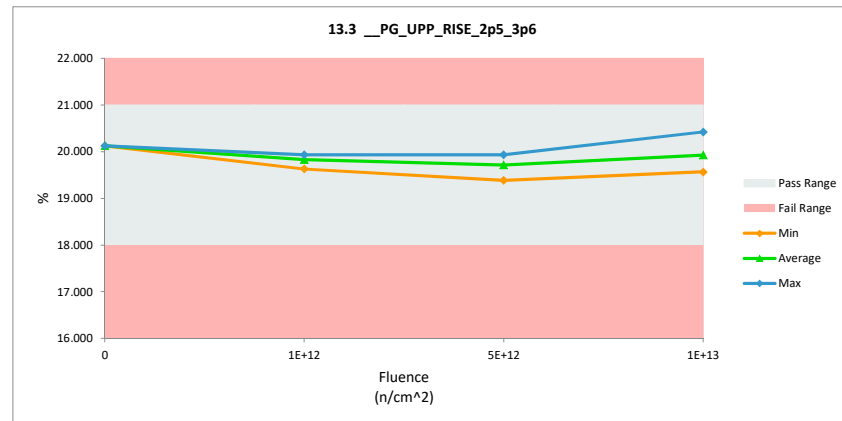
13.3 __PG_UPP_RISE_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	21	21
Min Limit	18	18

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	20.110	20.123	0.013
1E+12	2	19.936	19.917	-0.019
1E+12	3	19.959	19.936	-0.023
1E+12	4	19.642	19.629	-0.013
5E+12	5	19.390	19.387	-0.003
5E+12	6	19.956	19.936	-0.020
5E+12	7	19.807	19.816	0.009
1E+13	8	20.423	20.423	0.000
1E+13	9	19.558	19.564	0.006
1E+13	10	19.813	19.791	-0.022
	Max	20.423	20.423	0.013
	Average	19.859	19.852	-0.007
	Min	19.390	19.387	-0.023
	Std Dev	0.292	0.293	0.014



13.3 __PG_UPP_RISE_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	21	%
Min Limit	18	%

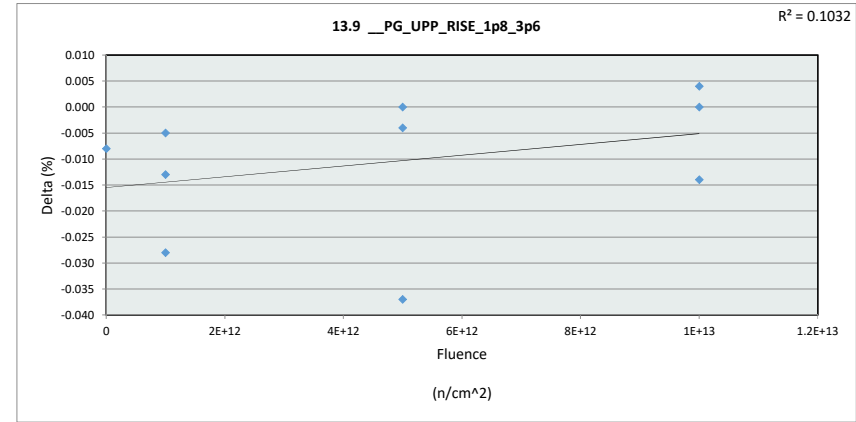
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	18.000	18.000	18.000	18.000
Min	20.123	19.629	19.387	19.564
Average	20.123	19.827	19.713	19.926
Max	20.123	19.936	19.936	20.423
UL	21.000	21.000	21.000	21.000



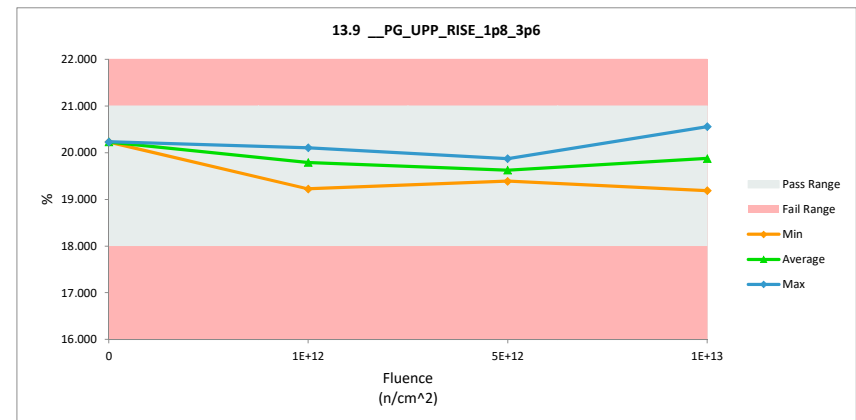
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

13.9 __PG_UPP_RISE_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	21
Min Limit	18

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	20.238	20.230	-0.008
1E+12	2	20.063	20.035	-0.028
1E+12	3	20.108	20.103	-0.005
1E+12	4	19.236	19.223	-0.013
5E+12	5	19.388	19.388	0.000
5E+12	6	19.648	19.611	-0.037
5E+12	7	19.873	19.869	-0.004
1E+13	8	20.557	20.557	0.000
1E+13	9	19.183	19.187	0.004
1E+13	10	19.887	19.873	-0.014
	Max	20.557	20.557	0.004
	Average	19.818	19.808	-0.011
	Min	19.183	19.187	-0.037
	Std Dev	0.451	0.451	0.013



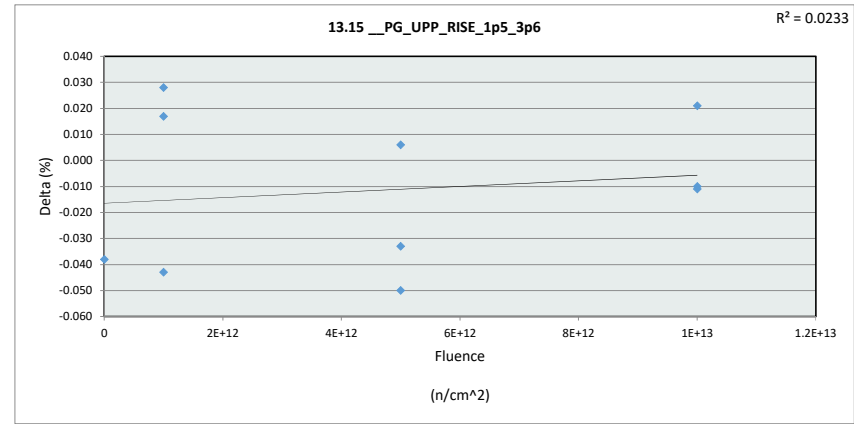
13.9 __PG_UPP_RISE_1p8_3p6				
Test Site				
Tester				
Test Number				
Max Limit	21	%		
Min Limit	18	%		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	18.000	18.000	18.000	18.000
Min	20.230	19.223	19.388	19.187
Average	20.230	19.787	19.623	19.872
Max	20.230	20.103	19.869	20.557
UL	21.000	21.000	21.000	21.000



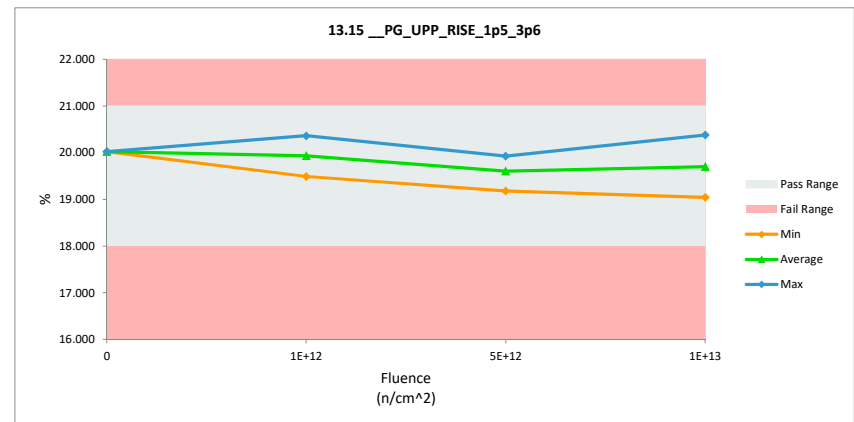
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

13.15 PG_UPP_RISE_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	21	21
Min Limit	18	18

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	20.058	20.020	-0.038
1E+12	2	20.343	20.360	0.017
1E+12	3	19.993	19.950	-0.043
1E+12	4	19.461	19.489	0.028
5E+12	5	19.226	19.176	-0.050
5E+12	6	19.956	19.923	-0.033
5E+12	7	19.703	19.709	0.006
1E+13	8	20.358	20.379	0.021
1E+13	9	19.051	19.041	-0.010
1E+13	10	19.687	19.676	-0.011
	Max	20.358	20.379	0.028
	Average	19.784	19.772	-0.011
	Min	19.051	19.041	-0.050
	Std Dev	0.442	0.449	0.029



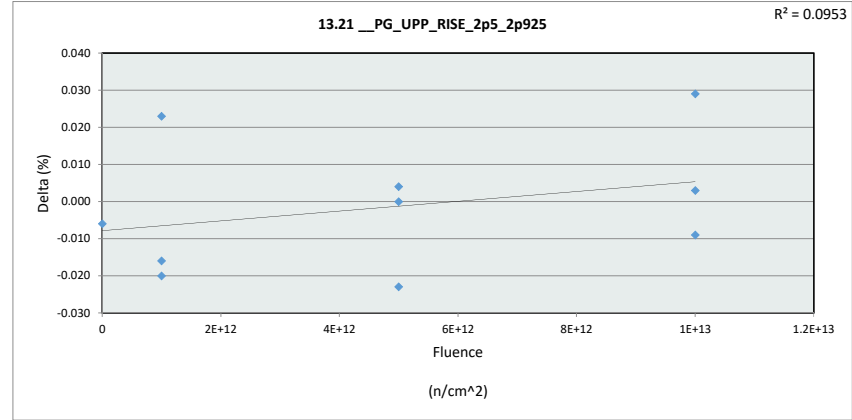
13.15 PG_UPP_RISE_1p5_3p6				
Test Site				
Tester				
Test Number				
Max Limit	21		%	
Min Limit	18		%	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	18.000	18.000	18.000	18.000
Min	20.020	19.489	19.176	19.041
Average	20.020	19.933	19.603	19.699
Max	20.020	20.360	19.923	20.379
UL	21.000	21.000	21.000	21.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

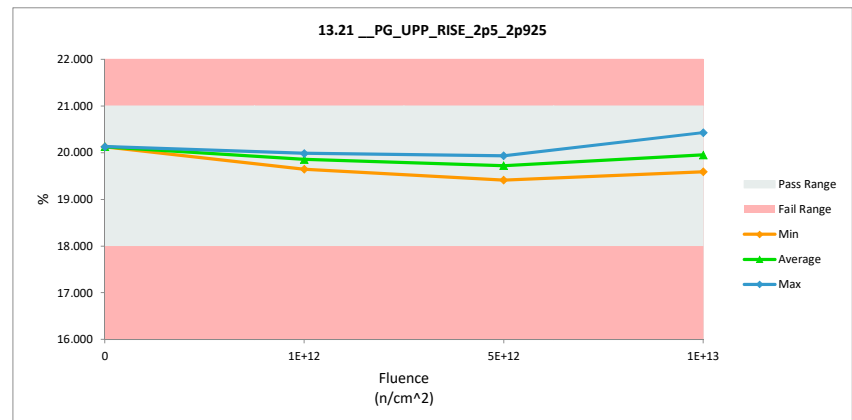
13.21 PG_UPP_RISE_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	21	21
Min Limit	18	18

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	20.133	20.127	-0.006
1E+12	2	19.959	19.939	-0.020
1E+12	3	19.959	19.982	0.023
1E+12	4	19.658	19.642	-0.016
5E+12	5	19.406	19.410	0.004
5E+12	6	19.959	19.936	-0.023
5E+12	7	19.816	19.816	0.000
1E+13	8	20.439	20.430	-0.009
1E+13	9	19.561	19.590	0.029
1E+13	10	19.826	19.829	0.003
	Max	20.439	20.430	0.029
	Average	19.872	19.870	-0.001
	Min	19.406	19.410	-0.023
	Std Dev	0.294	0.288	0.017



13.21 PG_UPP_RISE_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	21	%
Min Limit	18	%

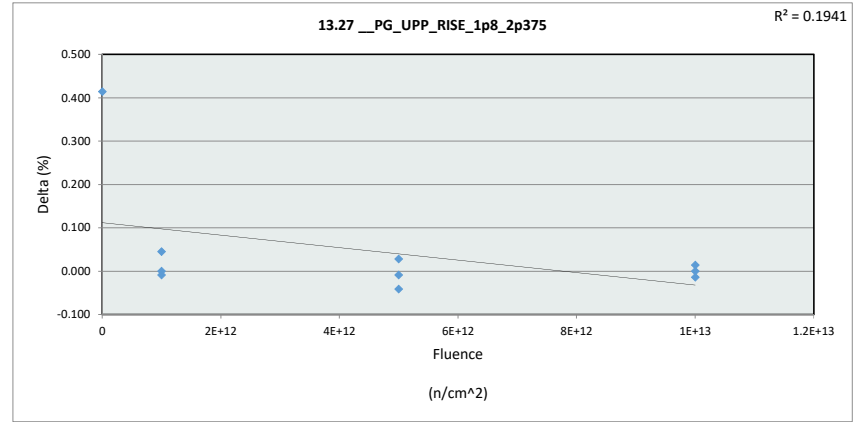
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	18.000	18.000	18.000	18.000
Min	20.127	19.642	19.410	19.590
Average	20.127	19.854	19.721	19.950
Max	20.127	19.982	19.936	20.430
UL	21.000	21.000	21.000	21.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

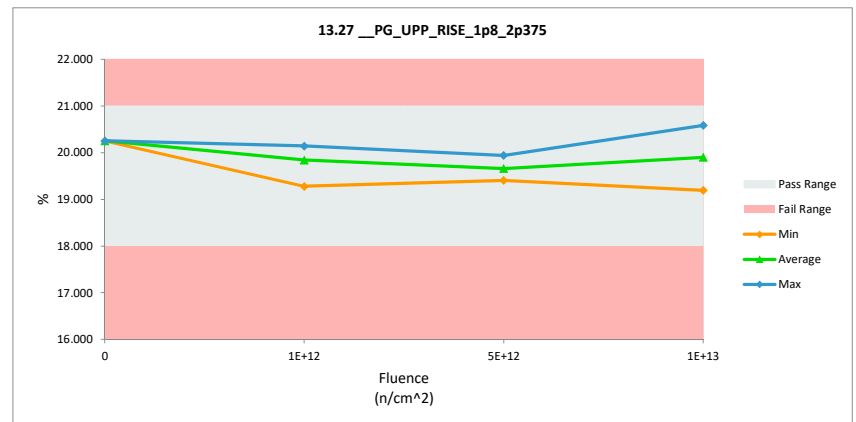
13.27 __PG_UPP_RISE_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	21	21
Min Limit	18	18

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	19.838	20.252	0.414
1E+12	2	20.062	20.107	0.045
1E+12	3	20.148	20.139	-0.009
1E+12	4	19.276	19.276	0.000
5E+12	5	19.414	19.405	-0.009
5E+12	6	19.674	19.633	-0.041
5E+12	7	19.909	19.937	0.028
1E+13	8	20.584	20.584	0.000
1E+13	9	19.210	19.196	-0.014
1E+13	10	19.900	19.914	0.014
	Max	20.584	20.584	0.414
	Average	19.801	19.844	0.043
	Min	19.210	19.196	-0.041
	Std Dev	0.424	0.455	0.133



13.27 __PG_UPP_RISE_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	21	%
Min Limit	18	%

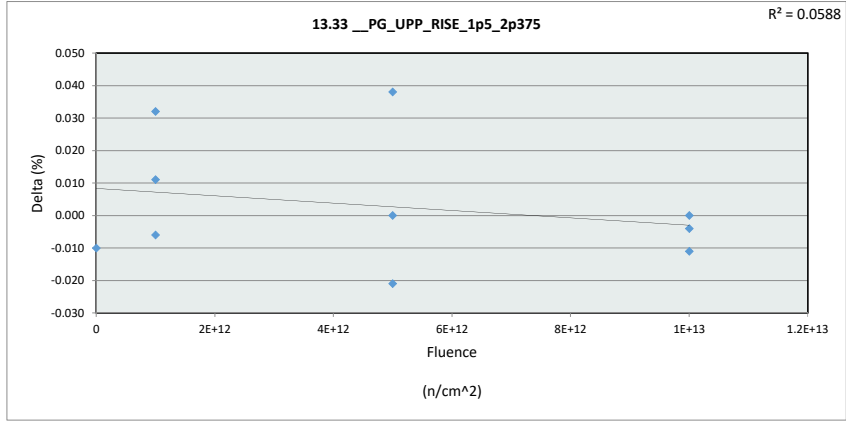
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	18.000	18.000	18.000	18.000
Min	20.252	19.276	19.405	19.196
Average	20.252	19.841	19.658	19.898
Max	20.252	20.139	19.937	20.584
UL	21.000	21.000	21.000	21.000



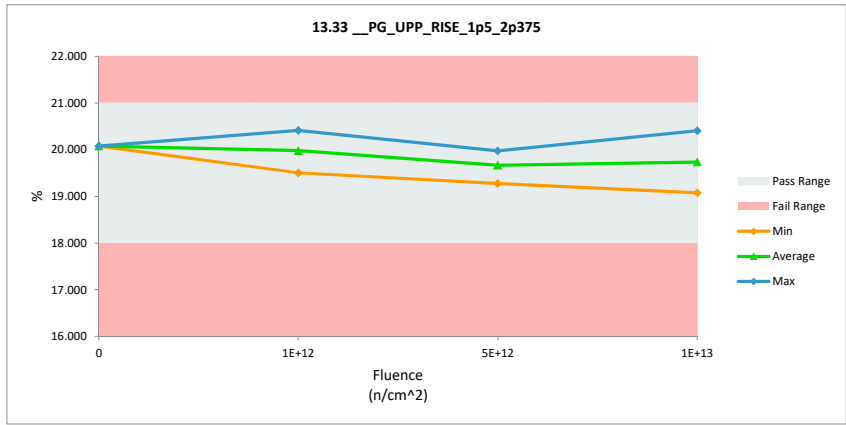
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

13.33 PG_UPP_RISE_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	21	21
Min Limit	18	18

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	20.084	20.074	-0.010
1E+12	2	20.381	20.413	0.032
1E+12	3	20.004	20.015	0.011
1E+12	4	19.510	19.504	-0.006
5E+12	5	19.235	19.273	0.038
5E+12	6	19.993	19.972	-0.021
5E+12	7	19.752	19.752	0.000
1E+13	8	20.406	20.406	0.000
1E+13	9	19.077	19.073	-0.004
1E+13	10	19.735	19.724	-0.011
	Max	20.406	20.413	0.038
	Average	19.818	19.821	0.003
	Min	19.077	19.073	-0.021
	Std Dev	0.446	0.446	0.019



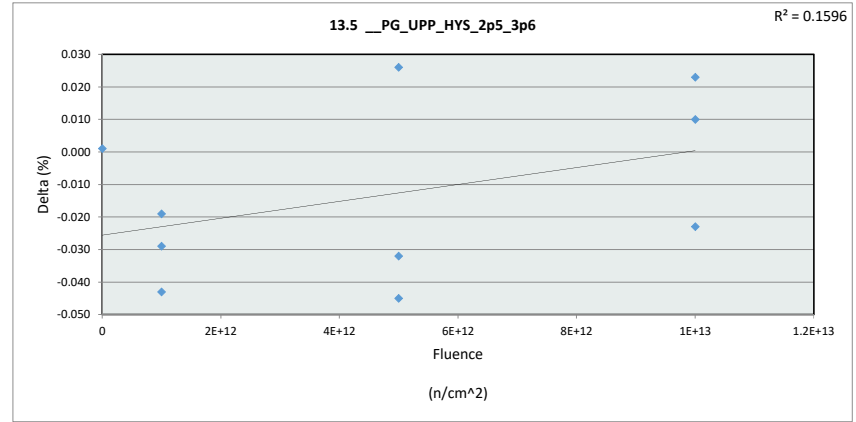
13.33 PG_UPP_RISE_1p5_2p375				
Test Site				
Tester				
Test Number				
Max Limit	21	%		
Min Limit	18	%		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	18.000	18.000	18.000	18.000
Min	20.074	19.504	19.273	19.073
Average	20.074	19.977	19.666	19.734
Max	20.074	20.413	19.972	20.406
UL	21.000	21.000	21.000	21.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

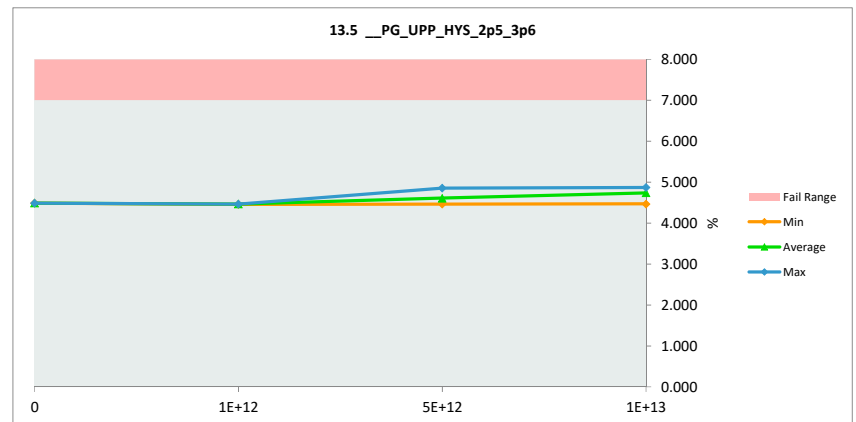
13.5 __PG_UPP_HYS_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	% %
Max Limit	7 7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.486	4.487	0.001
1E+12	2	4.501	4.458	-0.043
1E+12	3	4.495	4.466	-0.029
1E+12	4	4.483	4.464	-0.019
5E+12	5	4.495	4.463	-0.032
5E+12	6	4.902	4.857	-0.045
5E+12	7	4.476	4.502	0.026
1E+13	8	4.855	4.865	0.010
1E+13	9	4.853	4.876	0.023
1E+13	10	4.493	4.470	-0.023
	Max	4.902	4.876	0.026
	Average	4.604	4.591	-0.013
	Min	4.476	4.458	-0.045
	Std Dev	0.184	0.190	0.026



13.5 __PG_UPP_HYS_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	7 %
Min Limit	%

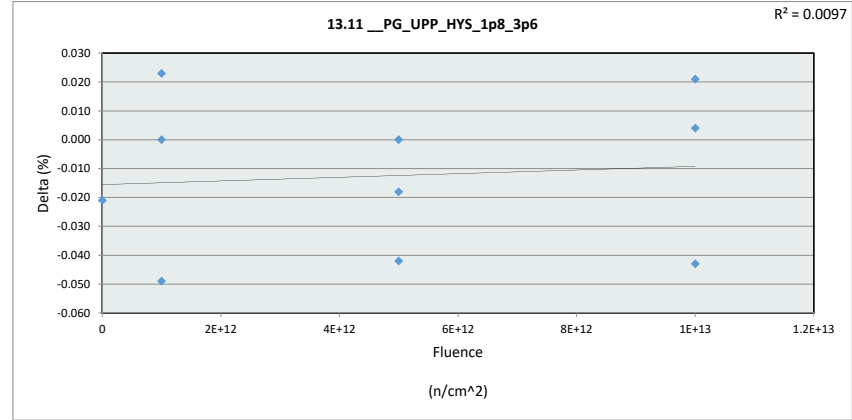
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.487	4.458	4.463	4.470
Average	4.487	4.463	4.607	4.737
Max	4.487	4.466	4.857	4.876
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

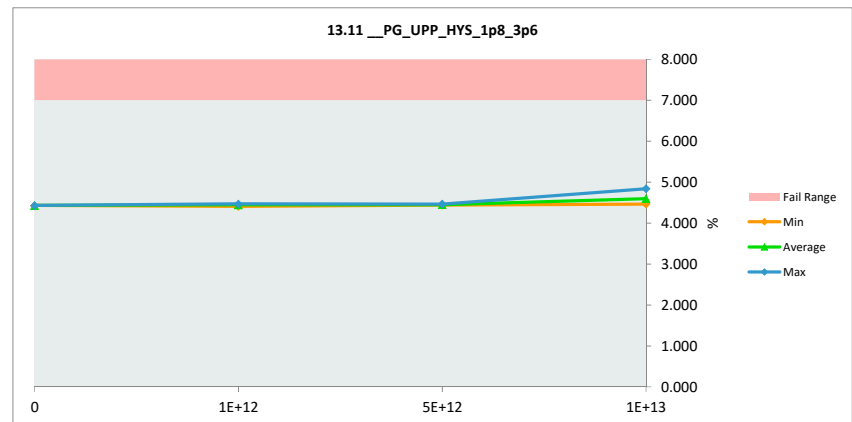
13.11 PG_UPP_HYS_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	% %
Max Limit	7 7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.452	4.431	-0.021
1E+12	2	4.454	4.454	0.000
1E+12	3	4.447	4.470	0.023
1E+12	4	4.458	4.409	-0.049
5E+12	5	4.464	4.464	0.000
5E+12	6	4.483	4.441	-0.042
5E+12	7	4.457	4.439	-0.018
1E+13	8	4.885	4.842	-0.043
1E+13	9	4.474	4.495	0.021
1E+13	10	4.462	4.466	0.004
	Max	4.885	4.842	0.023
	Average	4.504	4.491	-0.013
	Min	4.447	4.409	-0.049
	Std Dev	0.134	0.126	0.026



13.11 PG_UPP_HYS_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	7 %
Min Limit	%

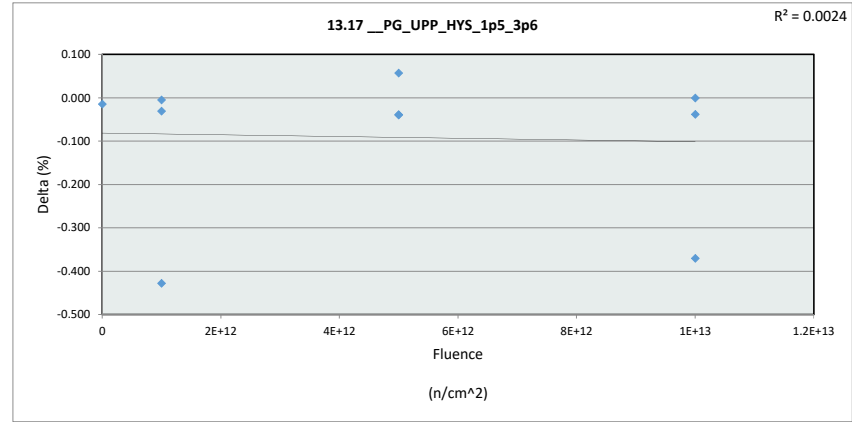
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.431	4.409	4.439	4.466
Average	4.431	4.444	4.448	4.601
Max	4.431	4.470	4.464	4.842
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

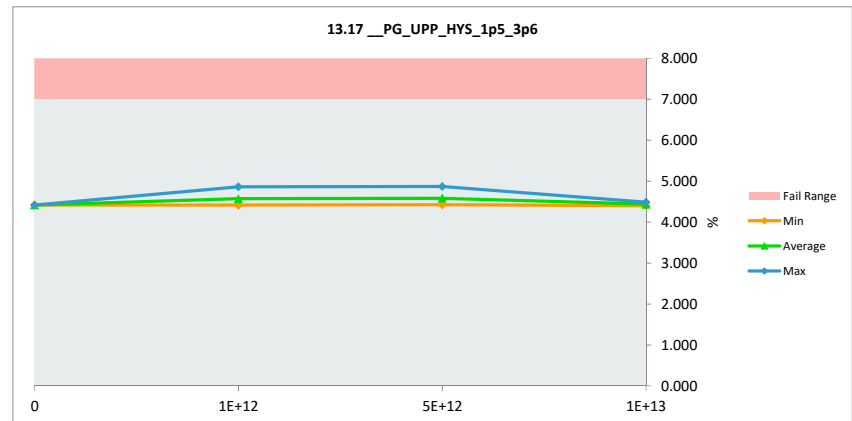
13.17 __ PG_UPP_HYS_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	% %
Max Limit	7 7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.434	4.419	-0.015
1E+12	2	4.870	4.865	-0.005
1E+12	3	4.464	4.433	-0.031
1E+12	4	4.842	4.414	-0.428
5E+12	5	4.469	4.430	-0.039
5E+12	6	4.911	4.871	-0.040
5E+12	7	4.391	4.448	0.057
1E+13	8	4.858	4.488	-0.370
1E+13	9	4.453	4.415	-0.038
1E+13	10	4.406	4.405	-0.001
	Max	4.911	4.871	0.057
	Average	4.610	4.519	-0.091
	Min	4.391	4.405	-0.428
	Std Dev	0.226	0.186	0.165



13.17 __ PG_UPP_HYS_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	7 %
Min Limit	%

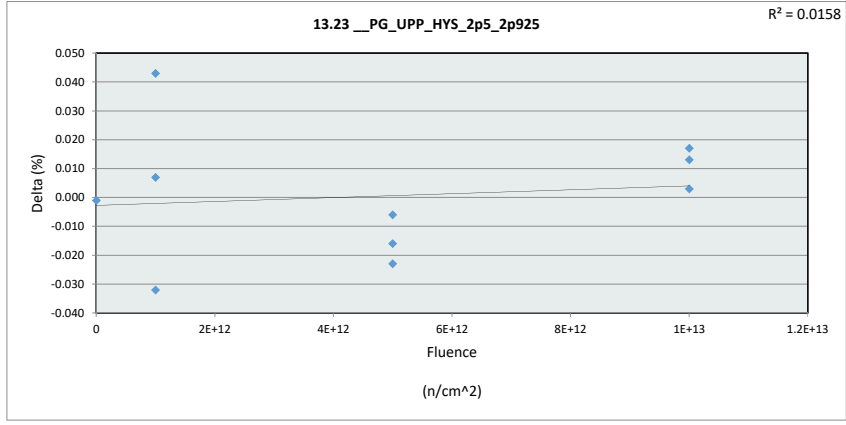
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.419	4.414	4.430	4.405
Average	4.419	4.571	4.583	4.436
Max	4.419	4.865	4.871	4.488
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

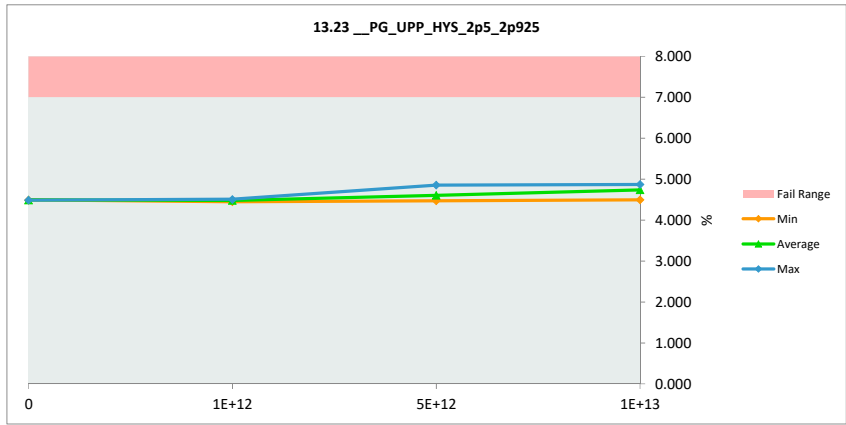
13.23 PG_UPP_HYS_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	7
Min Limit	7

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.491	4.490	-0.001
1E+12	2	4.481	4.488	0.007
1E+12	3	4.466	4.509	0.043
1E+12	4	4.486	4.454	-0.032
5E+12	5	4.488	4.482	-0.006
5E+12	6	4.873	4.857	-0.016
5E+12	7	4.496	4.473	-0.023
1E+13	8	4.859	4.862	0.003
1E+13	9	4.854	4.871	0.017
1E+13	10	4.483	4.496	0.013
	Max	4.873	4.871	0.043
	Average	4.598	4.598	0.000
	Min	4.466	4.454	-0.032
	Std Dev	0.183	0.184	0.022



13.23 PG_UPP_HYS_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	7
Min Limit	%

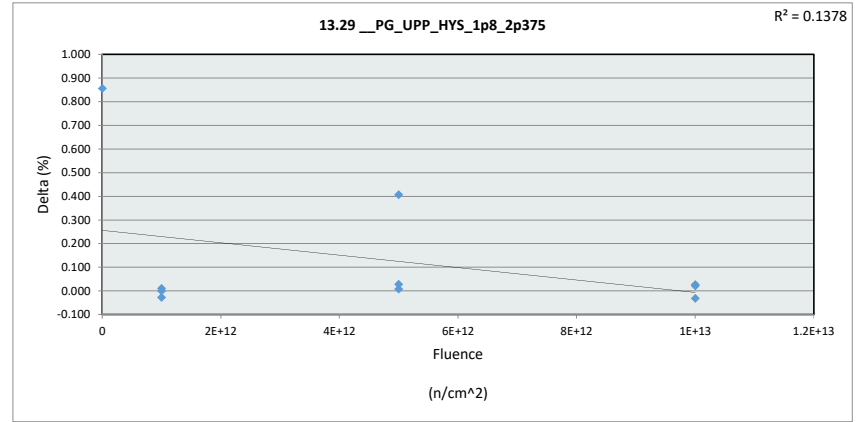
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.490	4.454	4.473	4.496
Average	4.490	4.484	4.604	4.743
Max	4.490	4.509	4.857	4.871
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

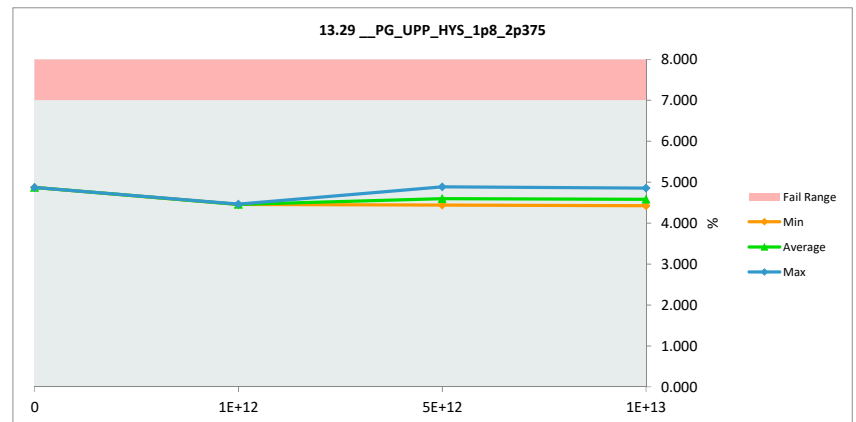
13.29_PG_UPP_HYS_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	% %
Max Limit	7 7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.014	4.870	0.856
1E+12	2	4.455	4.466	0.011
1E+12	3	4.481	4.453	-0.028
1E+12	4	4.455	4.455	0.000
5E+12	5	4.434	4.442	0.008
5E+12	6	4.483	4.890	0.407
5E+12	7	4.436	4.464	0.028
1E+13	8	4.833	4.855	0.022
1E+13	9	4.461	4.430	-0.031
1E+13	10	4.436	4.463	0.027
	Max	4.833	4.890	0.856
	Average	4.449	4.579	0.130
	Min	4.014	4.430	-0.031
	Std Dev	0.194	0.203	0.285



13.29_PG_UPP_HYS_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	7 %
Min Limit	%

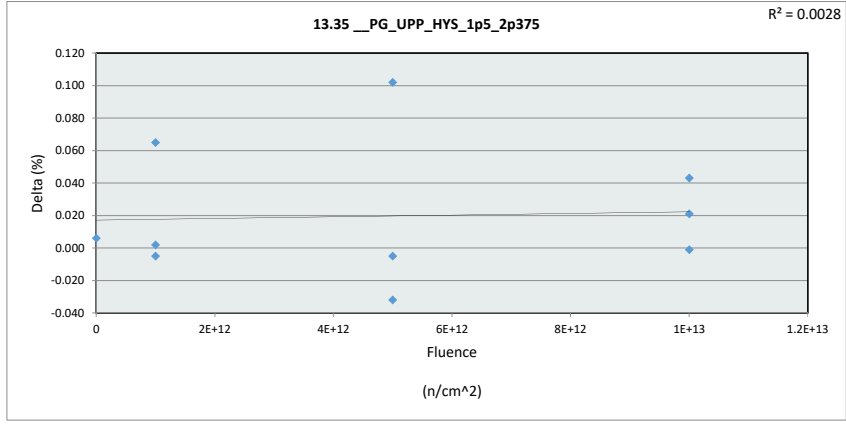
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.870	4.453	4.442	4.430
Average	4.870	4.458	4.599	4.583
Max	4.870	4.466	4.890	4.855
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

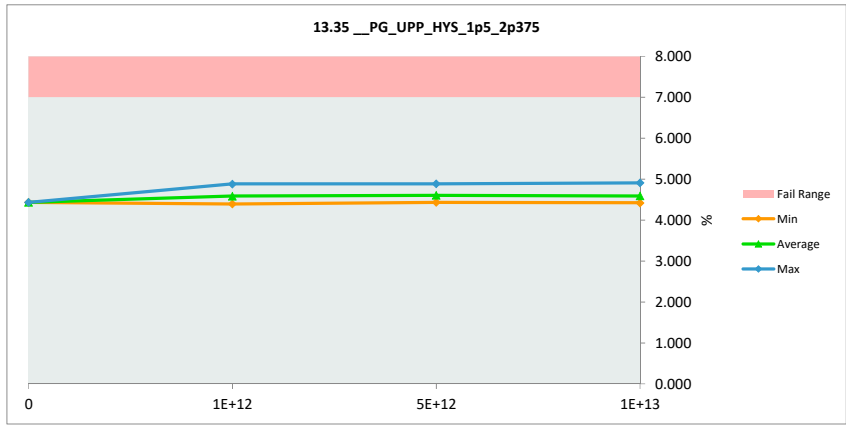
13.35 PG_UPP_HYS_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	% %
Max Limit	7 7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.430	4.436	0.006
1E+12	2	4.882	4.884	0.002
1E+12	3	4.406	4.471	0.065
1E+12	4	4.404	4.399	-0.005
5E+12	5	4.404	4.506	0.102
5E+12	6	4.917	4.885	-0.032
5E+12	7	4.440	4.435	-0.005
1E+13	8	4.866	4.909	0.043
1E+13	9	4.438	4.437	-0.001
1E+13	10	4.402	4.423	0.021
	Max	4.917	4.909	0.102
	Average	4.559	4.578	0.020
	Min	4.402	4.399	-0.032
	Std Dev	0.228	0.219	0.040



13.35 PG_UPP_HYS_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	7 %
Min Limit	%

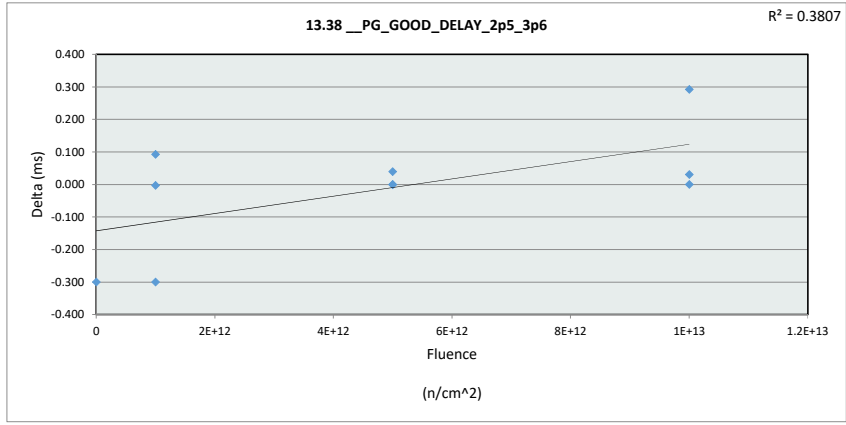
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	4.436	4.399	4.435	4.423
Average	4.436	4.585	4.609	4.590
Max	4.436	4.884	4.885	4.909
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

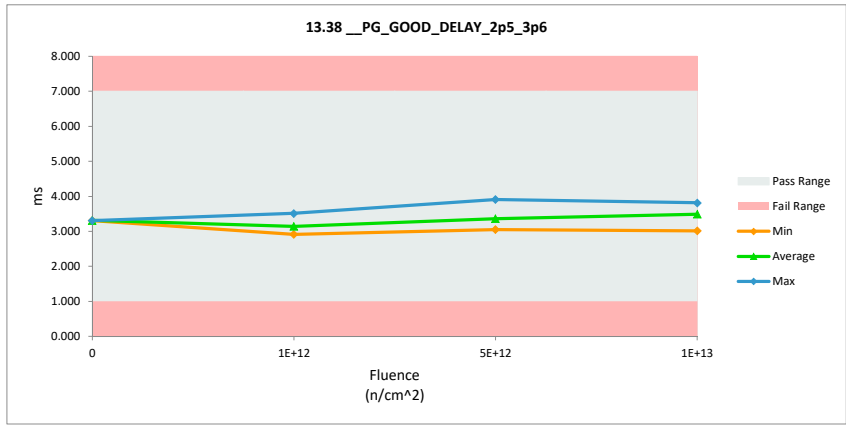
13.38 PG_GOOD_DELAY_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	ms
Max Limit	7
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.610	3.310	-0.300
1E+12	2	3.513	3.510	-0.003
1E+12	3	3.210	2.910	-0.300
1E+12	4	2.910	3.003	0.093
5E+12	5	3.912	3.911	-0.001
5E+12	6	3.111	3.111	0.000
5E+12	7	3.010	3.049	0.039
1E+13	8	3.611	3.642	0.031
1E+13	9	3.518	3.810	0.292
1E+13	10	3.011	3.011	0.000
	Max	3.912	3.911	0.292
	Average	3.342	3.327	-0.015
	Min	2.910	2.910	-0.300
	Std Dev	0.334	0.367	0.175



13.38 PG_GOOD_DELAY_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	7 ms
Min Limit	1 ms

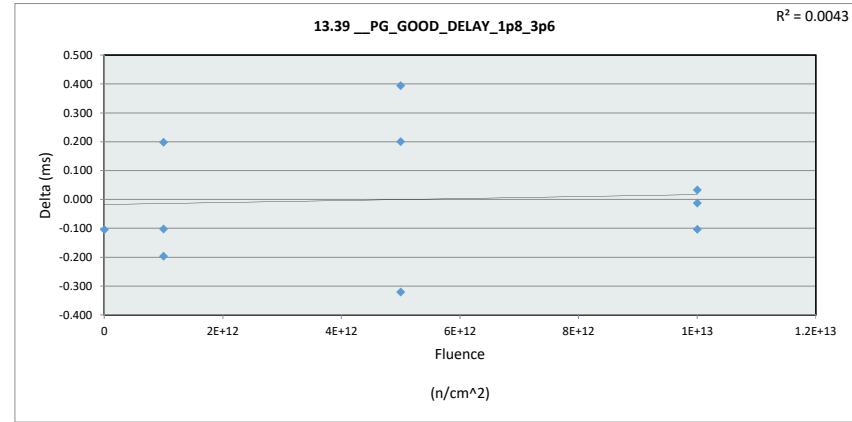
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	3.310	2.910	3.049	3.011
Average	3.310	3.141	3.357	3.488
Max	3.310	3.510	3.911	3.810
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

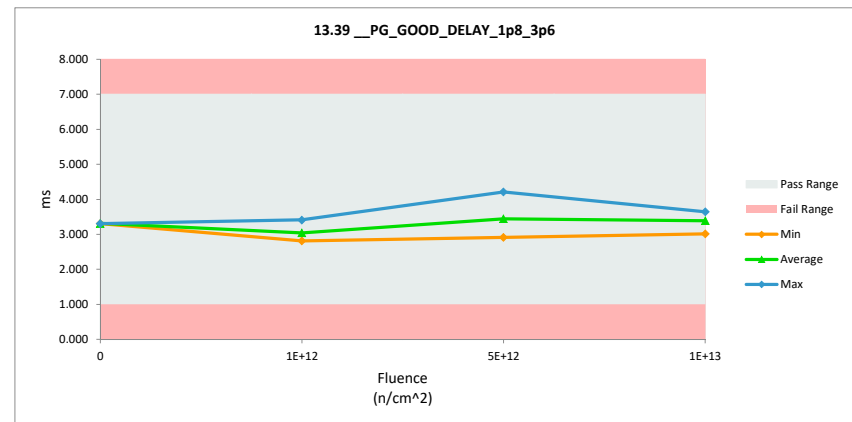
13.39 __PG_GOOD_DELAY_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	ms
Max Limit	7
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.414	3.310	-0.104
1E+12	2	3.512	3.410	-0.102
1E+12	3	3.010	2.814	-0.196
1E+12	4	2.712	2.910	0.198
5E+12	5	3.816	4.210	0.394
5E+12	6	3.231	2.910	-0.321
5E+12	7	3.010	3.210	0.200
1E+13	8	3.611	3.644	0.033
1E+13	9	3.614	3.511	-0.103
1E+13	10	3.023	3.011	-0.012
Max		3.816	4.210	0.394
Average		3.295	3.294	-0.001
Min		2.712	2.814	-0.321
Std Dev		0.352	0.426	0.213



13.39 __PG_GOOD_DELAY_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	7 ms
Min Limit	1 ms

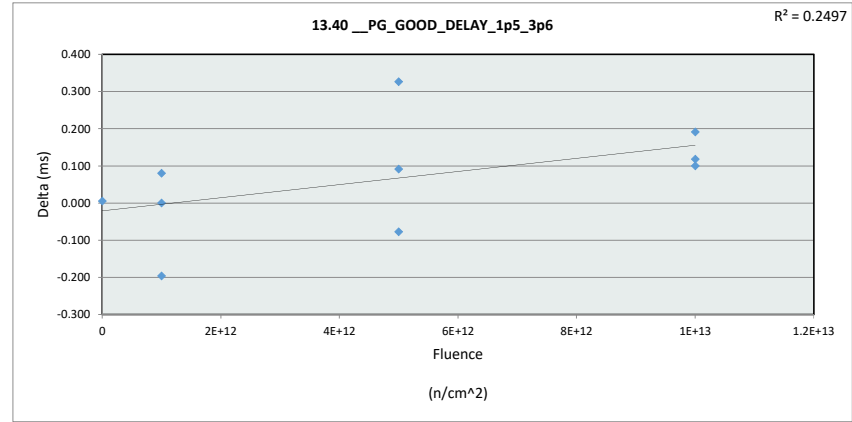
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	3.310	2.814	2.910	3.011
Average	3.310	3.045	3.443	3.389
Max	3.310	3.410	4.210	3.644
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

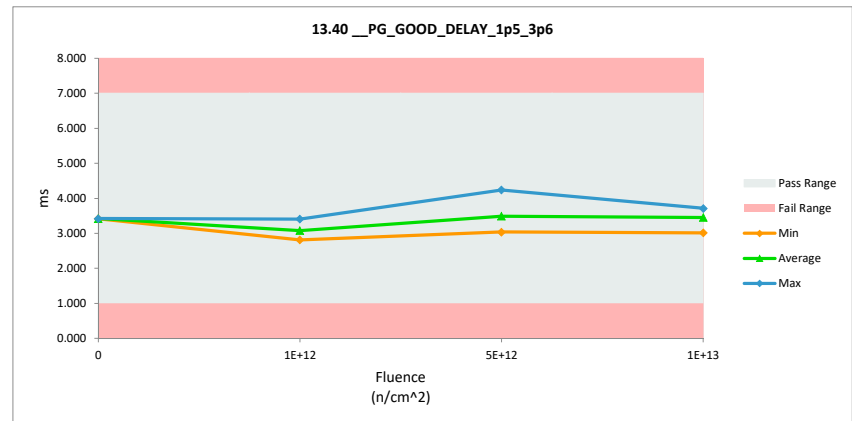
13.40 PG_GOOD_DELAY_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	ms
Max Limit	7
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.413	3.418	0.005
1E+12	2	3.410	3.410	0.000
1E+12	3	3.010	2.814	-0.196
1E+12	4	2.926	3.006	0.080
5E+12	5	3.912	4.238	0.326
5E+12	6	3.111	3.202	0.091
5E+12	7	3.113	3.036	-0.077
1E+13	8	3.511	3.629	0.118
1E+13	9	3.519	3.710	0.191
1E+13	10	2.911	3.011	0.100
Max		3.912	4.238	0.326
Average		3.284	3.347	0.064
Min		2.911	2.814	-0.196
Std Dev		0.322	0.428	0.143



13.40 PG_GOOD_DELAY_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	7 ms
Min Limit	1 ms

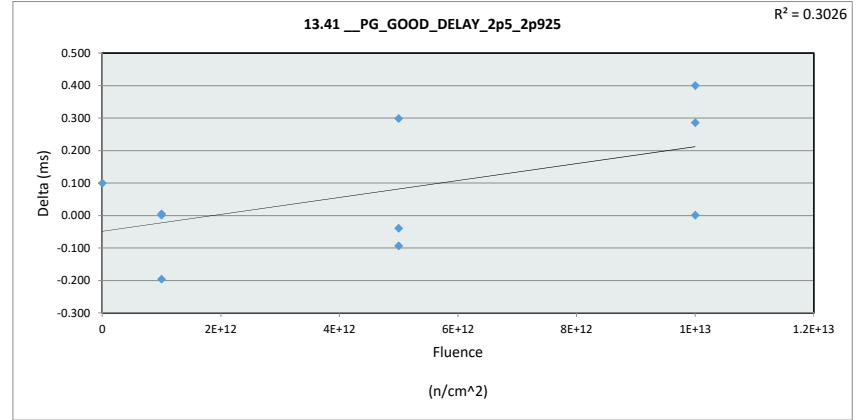
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	3.418	2.814	3.036	3.011
Average	3.418	3.077	3.492	3.450
Max	3.418	3.410	4.238	3.710
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

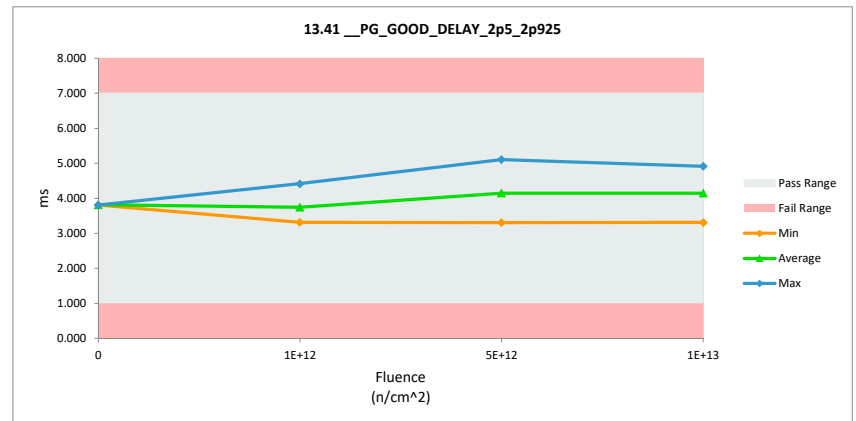
13.41 PG_GOOD_DELAY_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	ms
Max Limit	7
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	3.710	3.810	0.100
1E+12	2	4.411	4.416	0.005
1E+12	3	3.510	3.511	0.001
1E+12	4	3.510	3.314	-0.196
5E+12	5	4.811	5.110	0.299
5E+12	6	3.403	3.310	-0.093
5E+12	7	4.050	4.011	-0.039
1E+13	8	4.511	4.911	0.400
1E+13	9	3.924	4.210	0.286
1E+13	10	3.310	3.311	0.001
Max		4.811	5.110	0.400
Average		3.915	3.991	0.076
Min		3.310	3.310	-0.196
Std Dev		0.519	0.665	0.192



13.41 PG_GOOD_DELAY_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	7 ms
Min Limit	1 ms

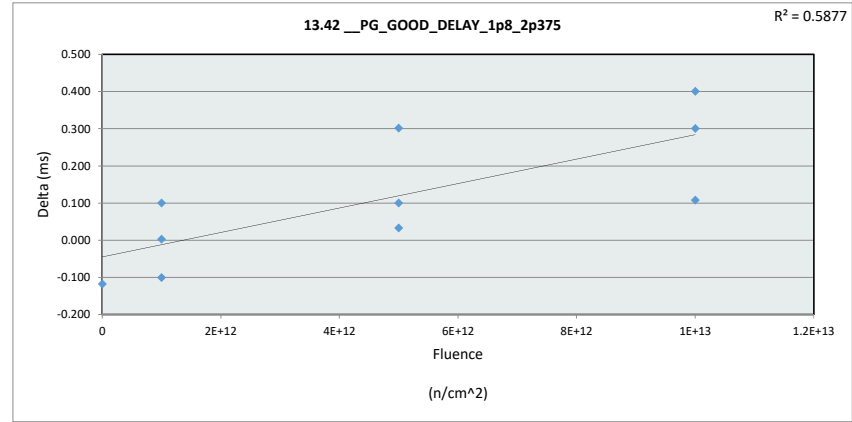
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	3.810	3.314	3.310	3.311
Average	3.810	3.747	4.144	4.144
Max	3.810	4.416	5.110	4.911
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

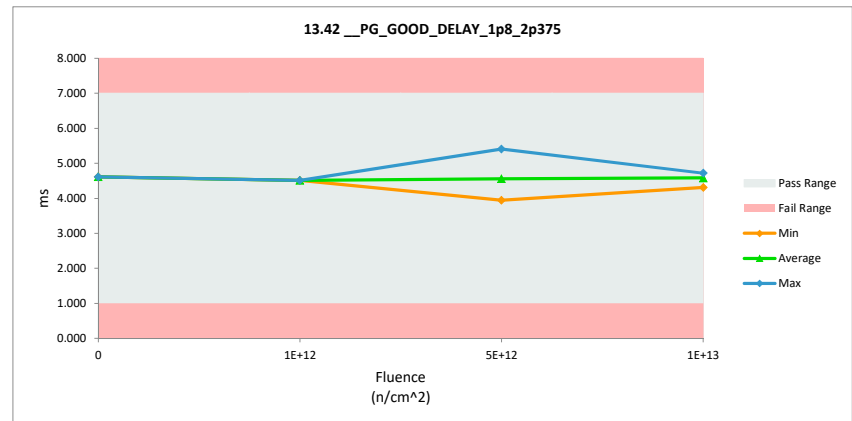
13.42 PG_GOOD_DELAY_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	ms	ms
Max Limit	7	7
Min Limit	1	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.731	4.613	-0.118
1E+12	2	4.411	4.511	0.100
1E+12	3	4.610	4.510	-0.100
1E+12	4	4.511	4.514	0.003
5E+12	5	5.110	5.412	0.302
5E+12	6	4.210	4.310	0.100
5E+12	7	3.910	3.943	0.033
1E+13	8	4.410	4.711	0.301
1E+13	9	4.612	4.720	0.108
1E+13	10	3.911	4.312	0.401
	Max	5.110	5.412	0.401
	Average	4.443	4.556	0.113
	Min	3.910	3.943	-0.118
	Std Dev	0.367	0.378	0.174



13.42 PG_GOOD_DELAY_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	7	ms
Min Limit	1	ms

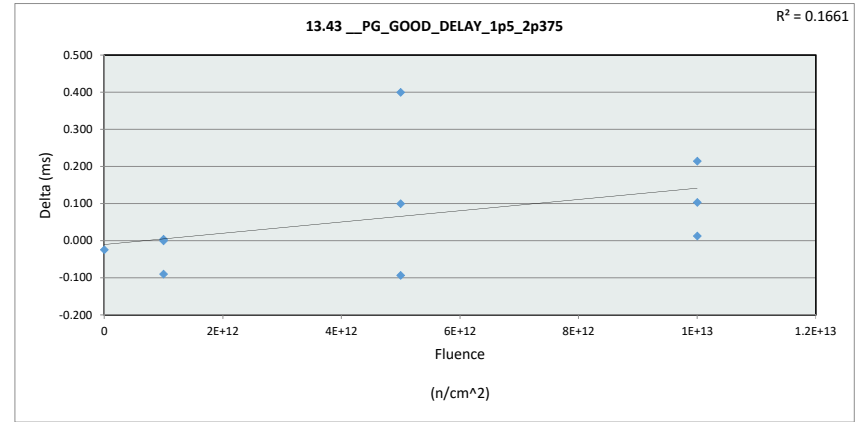
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	4.613	4.510	3.943	4.312
Average	4.613	4.512	4.555	4.581
Max	4.613	4.514	5.412	4.720
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

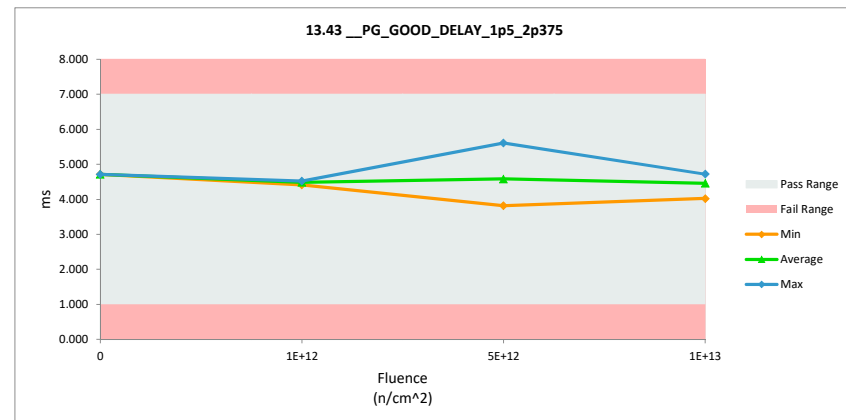
13.43 PG_GOOD_DELAY_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	ms
Max Limit	7
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	4.734	4.710	-0.024
1E+12	2	4.410	4.410	0.000
1E+12	3	4.610	4.520	-0.090
1E+12	4	4.511	4.515	0.004
5E+12	5	5.210	5.610	0.400
5E+12	6	4.210	4.310	0.100
5E+12	7	3.910	3.817	-0.093
1E+13	8	4.513	4.616	0.103
1E+13	9	4.710	4.723	0.013
1E+13	10	3.810	4.024	0.214
	Max	5.210	5.610	0.400
	Average	4.463	4.526	0.063
	Min	3.810	3.817	-0.093
	Std Dev	0.411	0.480	0.151



13.43 PG_GOOD_DELAY_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	7 ms
Min Limit	1 ms

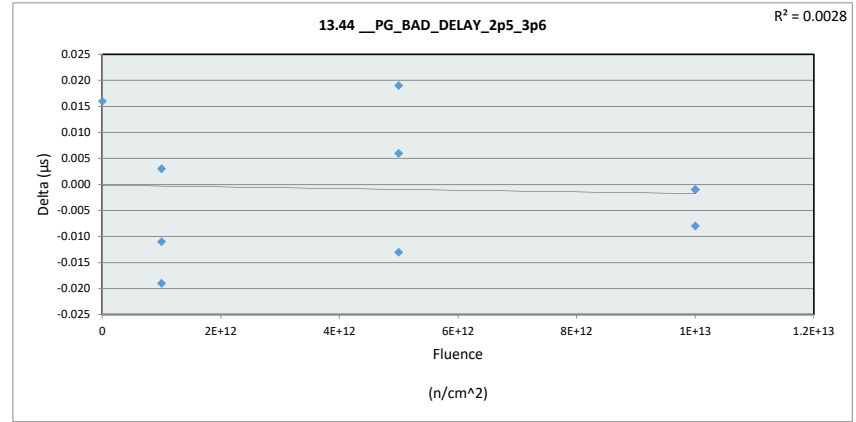
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.000	1.000	1.000	1.000
Min	4.710	4.410	3.817	4.024
Average	4.710	4.482	4.579	4.454
Max	4.710	4.520	5.610	4.723
UL	7.000	7.000	7.000	7.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

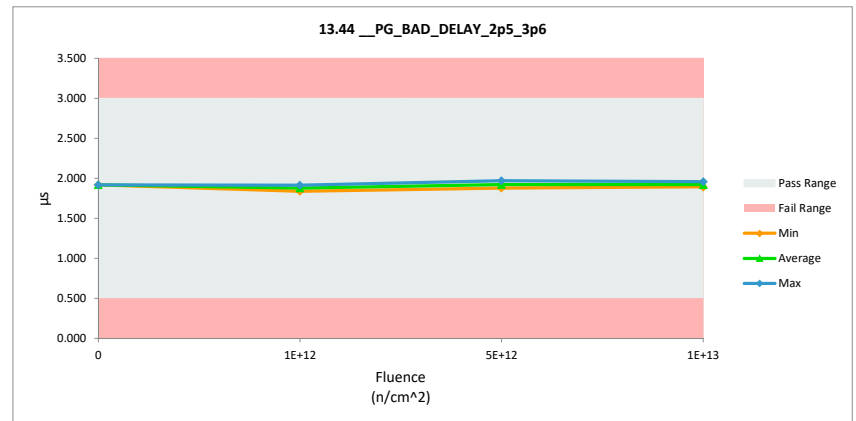
13.44 PG_BAD_DELAY_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	µs
Max Limit	3
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.902	1.918	0.016
1E+12	2	1.935	1.916	-0.019
1E+12	3	1.850	1.839	-0.011
1E+12	4	1.877	1.880	0.003
5E+12	5	1.891	1.878	-0.013
5E+12	6	1.966	1.972	0.006
5E+12	7	1.903	1.922	0.019
1E+13	8	1.893	1.892	-0.001
1E+13	9	1.959	1.958	-0.001
1E+13	10	1.914	1.906	-0.008
	Max	1.966	1.972	0.019
	Average	1.909	1.908	-0.001
	Min	1.850	1.839	-0.019
	Std Dev	0.036	0.039	0.012



13.44 PG_BAD_DELAY_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	3 µs
Min Limit	0.5 µs

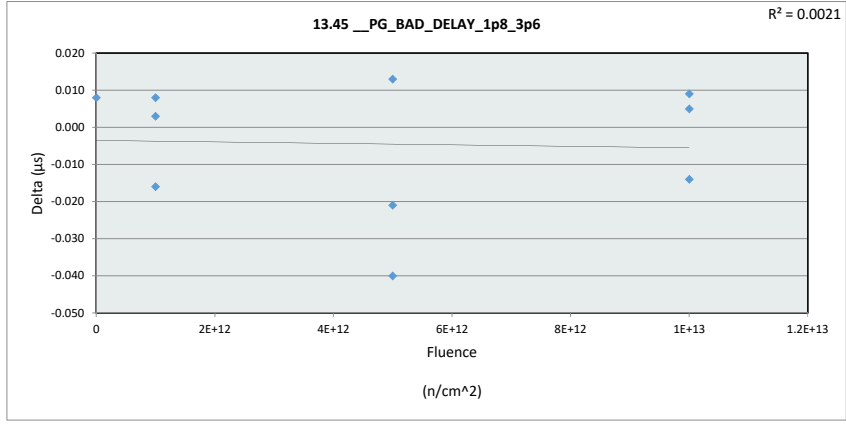
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.918	1.839	1.878	1.892
Average	1.918	1.878	1.924	1.919
Max	1.918	1.916	1.972	1.958
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

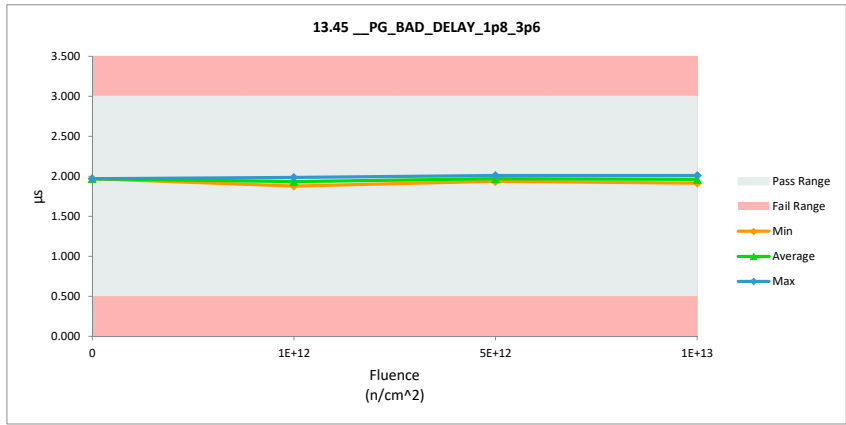
13.45_PG_BAD_DELAY_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	µs
Max Limit	3
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.961	1.969	0.008
1E+12	2	1.983	1.986	0.003
1E+12	3	1.872	1.880	0.008
1E+12	4	1.953	1.937	-0.016
5E+12	5	1.922	1.935	0.013
5E+12	6	2.050	2.010	-0.040
5E+12	7	1.977	1.956	-0.021
1E+13	8	1.905	1.914	0.009
1E+13	9	2.005	2.010	0.005
1E+13	10	1.967	1.953	-0.014
	Max	2.050	2.010	0.013
	Average	1.960	1.955	-0.005
	Min	1.872	1.880	-0.040
	Std Dev	0.051	0.041	0.017



13.45_PG_BAD_DELAY_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	3 µs
Min Limit	0.5 µs

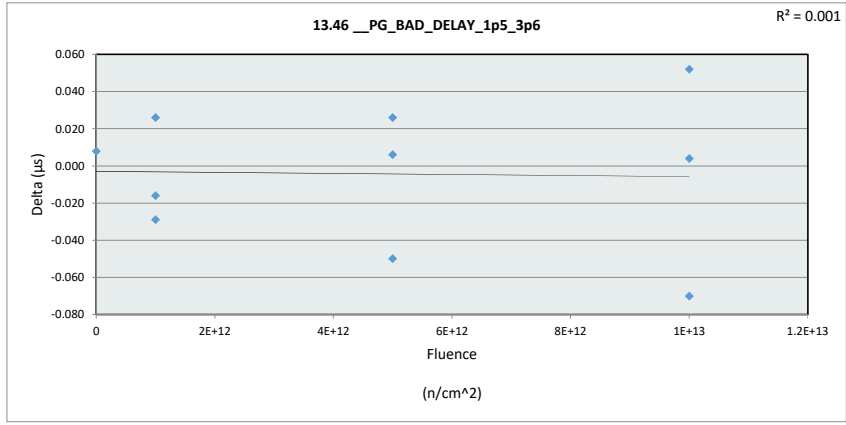
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.969	1.880	1.935	1.914
Average	1.969	1.934	1.967	1.959
Max	1.969	1.986	2.010	2.010
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

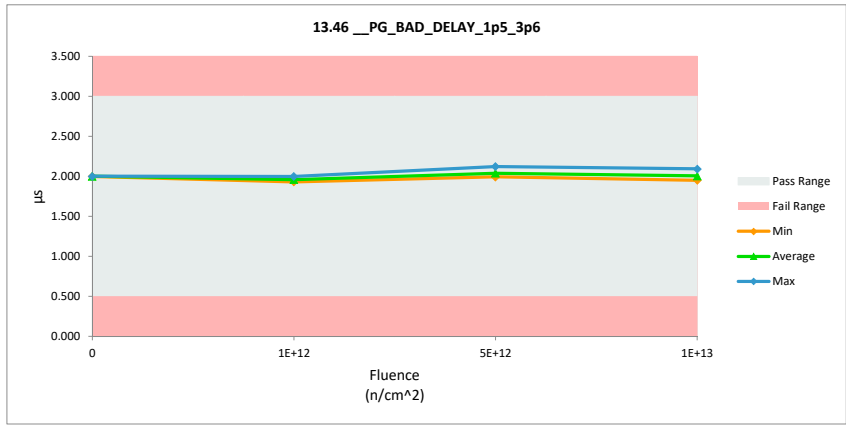
13.46 PG_BAD_DELAY_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	µs
Max Limit	3
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.992	2.000	0.008
1E+12	2	2.013	1.997	-0.016
1E+12	3	1.926	1.952	0.026
1E+12	4	1.961	1.932	-0.029
5E+12	5	1.996	2.002	0.006
5E+12	6	2.097	2.123	0.026
5E+12	7	2.041	1.991	-0.050
1E+13	8	1.964	1.968	0.004
1E+13	9	2.040	2.092	0.052
1E+13	10	2.019	1.949	-0.070
	Max	2.097	2.123	0.052
	Average	2.005	2.001	-0.004
	Min	1.926	1.932	-0.070
	Std Dev	0.049	0.062	0.037



13.46 PG_BAD_DELAY_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	3 µs
Min Limit	0.5 µs

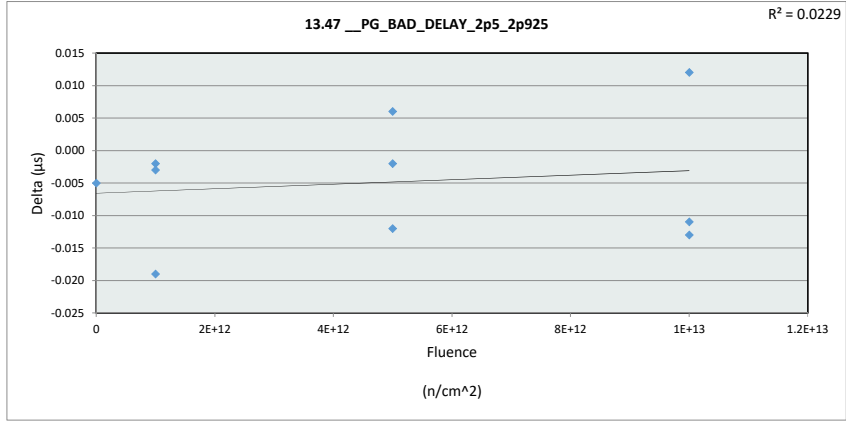
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	2.000	1.932	1.991	1.949
Average	2.000	1.960	2.039	2.003
Max	2.000	1.997	2.123	2.092
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

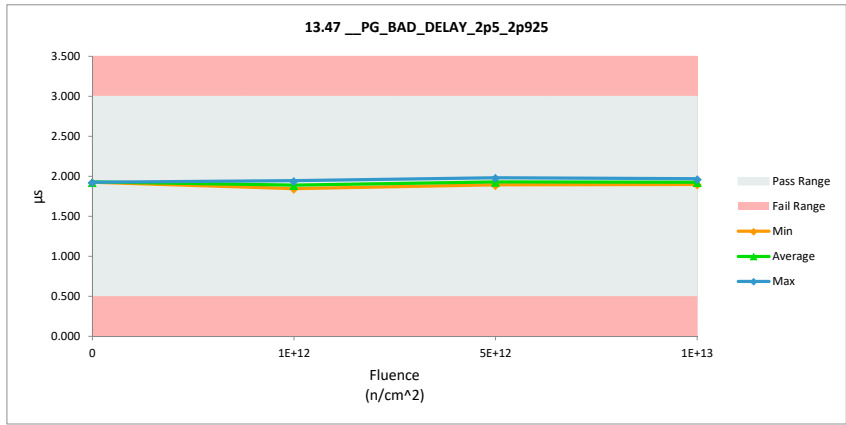
13.47 __PG_BAD_DELAY_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	µs
Max Limit	3
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.933	1.928	-0.005
1E+12	2	1.946	1.944	-0.002
1E+12	3	1.865	1.846	-0.019
1E+12	4	1.888	1.885	-0.003
5E+12	5	1.894	1.892	-0.002
5E+12	6	1.975	1.981	0.006
5E+12	7	1.934	1.922	-0.012
1E+13	8	1.909	1.898	-0.011
1E+13	9	1.956	1.968	0.012
1E+13	10	1.925	1.912	-0.013
	Max	1.975	1.981	0.012
	Average	1.923	1.918	-0.005
	Min	1.865	1.846	-0.019
	Std Dev	0.034	0.040	0.009



13.47 __PG_BAD_DELAY_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	3 µs
Min Limit	0.5 µs

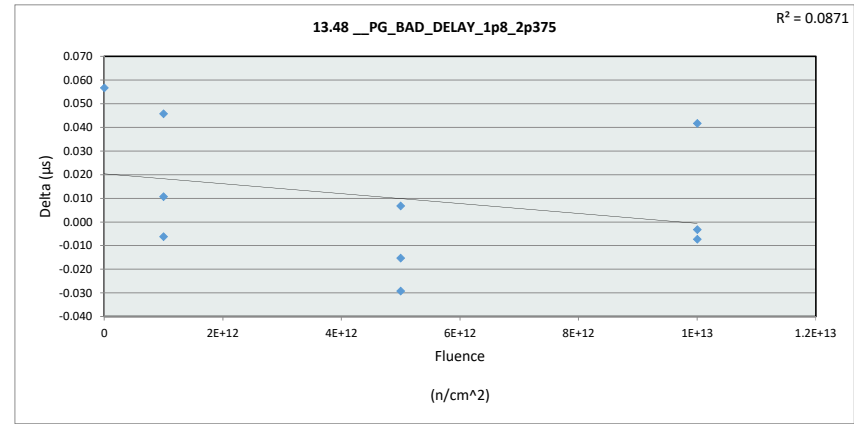
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.928	1.846	1.892	1.898
Average	1.928	1.892	1.932	1.926
Max	1.928	1.944	1.981	1.968
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

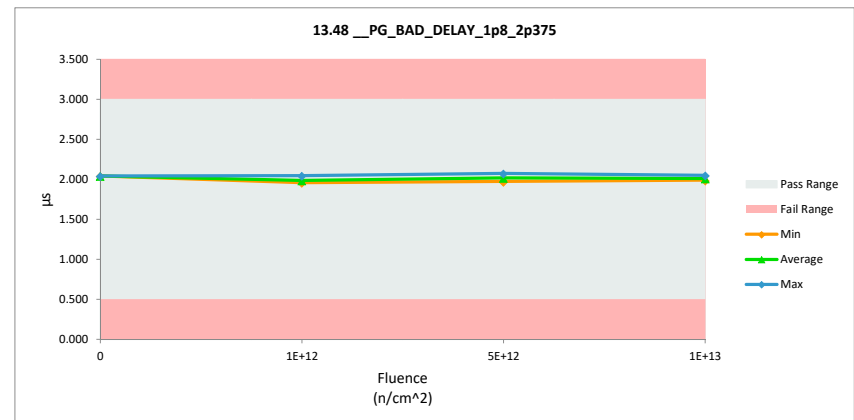
13.48 PG_BAD_DELAY_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	µs
Max Limit	3
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.985	2.042	0.057
1E+12	2	2.000	2.046	0.046
1E+12	3	1.946	1.957	0.011
1E+12	4	1.968	1.962	-0.006
5E+12	5	2.001	1.972	-0.029
5E+12	6	2.066	2.073	0.007
5E+12	7	2.021	2.006	-0.015
1E+13	8	1.949	1.991	0.042
1E+13	9	2.053	2.050	-0.003
1E+13	10	1.995	1.988	-0.007
	Max	2.066	2.073	0.057
	Average	1.998	2.009	0.010
	Min	1.946	1.957	-0.029
	Std Dev	0.040	0.041	0.029



13.48 PG_BAD_DELAY_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	3 µs
Min Limit	0.5 µs

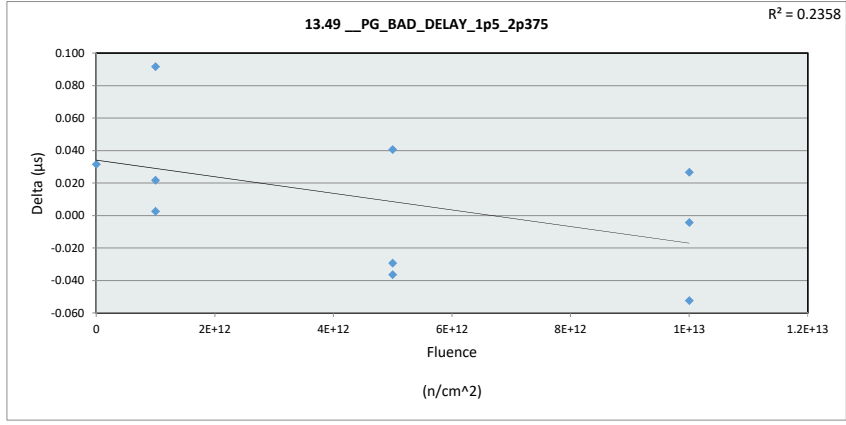
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	2.042	1.957	1.972	1.988
Average	2.042	1.988	2.017	2.010
Max	2.042	2.046	2.073	2.050
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

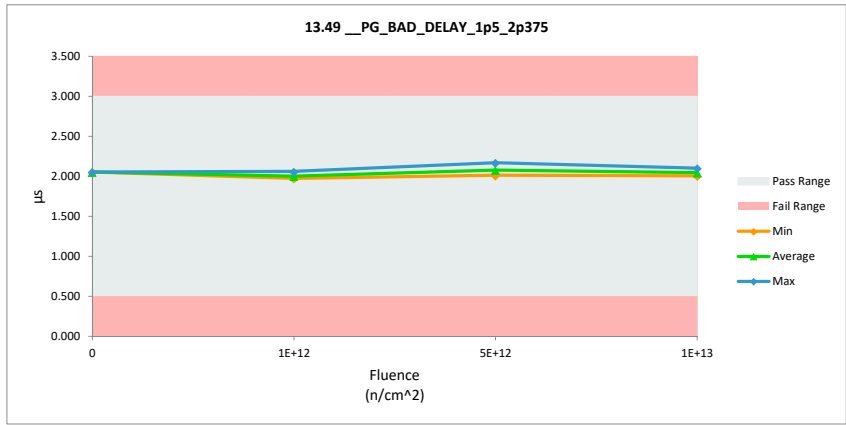
13.49 PG_BAD_DELAY_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	µs
Max Limit	3
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	2.022	2.054	0.032
1E+12	2	2.056	2.059	0.003
1E+12	3	1.883	1.975	0.092
1E+12	4	1.957	1.979	0.022
5E+12	5	2.047	2.011	-0.036
5E+12	6	2.130	2.171	0.041
5E+12	7	2.078	2.049	-0.029
1E+13	8	2.009	2.005	-0.004
1E+13	9	2.153	2.101	-0.052
1E+13	10	2.002	2.029	0.027
	Max	2.153	2.171	0.092
	Average	2.034	2.043	0.010
	Min	1.883	1.975	-0.052
	Std Dev	0.079	0.059	0.043



13.49 PG_BAD_DELAY_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	3 µs
Min Limit	0.5 µs

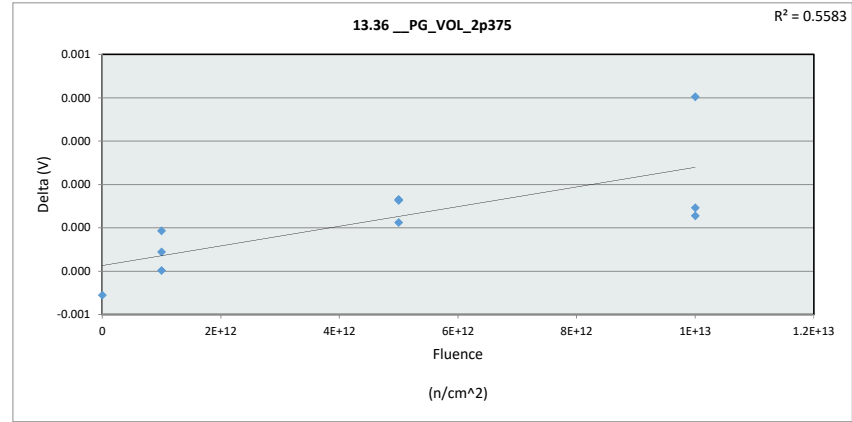
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	2.054	1.975	2.011	2.005
Average	2.054	2.004	2.077	2.045
Max	2.054	2.059	2.171	2.101
UL	3.000	3.000	3.000	3.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

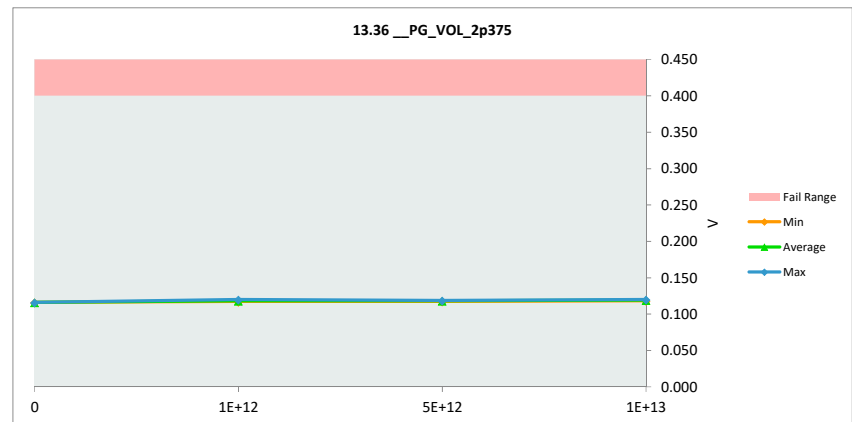
13.36_PG_VOL_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.4 0.4
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.117	0.116	-0.001
1E+12	2	0.118	0.117	0.000
1E+12	3	0.118	0.118	0.000
1E+12	4	0.120	0.120	0.000
5E+12	5	0.117	0.117	0.000
5E+12	6	0.119	0.119	0.000
5E+12	7	0.119	0.118	0.000
1E+13	8	0.119	0.119	0.000
1E+13	9	0.119	0.119	0.000
1E+13	10	0.120	0.120	0.000
Max		0.120	0.120	0.000
Average		0.118	0.118	0.000
Min		0.117	0.116	-0.001
Std Dev		0.001	0.001	0.000



13.36_PG_VOL_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.4 V
Min Limit	V

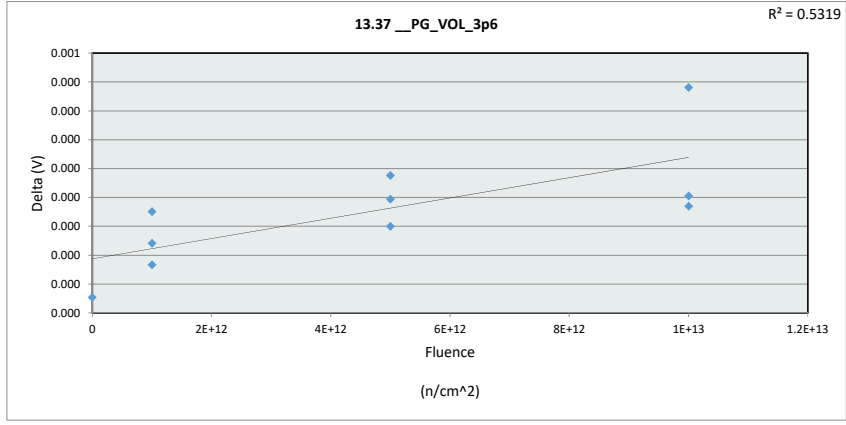
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.116	0.117	0.117	0.119
Average	0.116	0.118	0.118	0.119
Max	0.116	0.120	0.119	0.120
UL	0.400	0.400	0.400	0.400



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

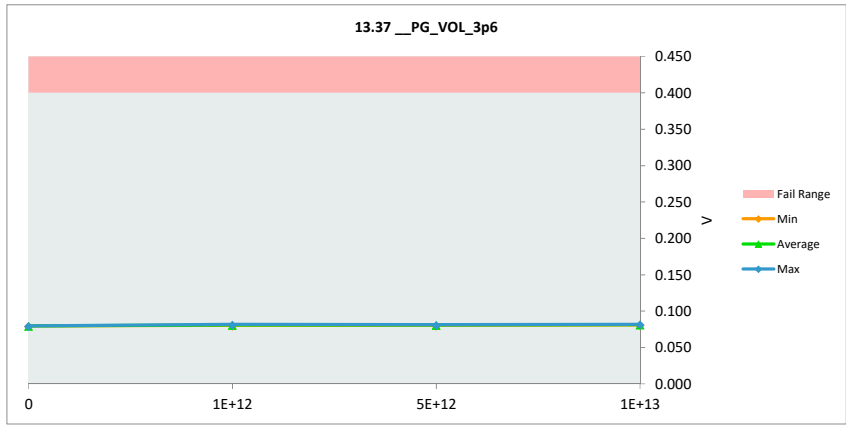
13.37 __ PG_VOL_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.4 0.4
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.080	0.080	0.000
1E+12	2	0.080	0.080	0.000
1E+12	3	0.081	0.081	0.000
1E+12	4	0.082	0.082	0.000
5E+12	5	0.080	0.080	0.000
5E+12	6	0.081	0.081	0.000
5E+12	7	0.081	0.081	0.000
1E+13	8	0.081	0.081	0.000
1E+13	9	0.081	0.081	0.000
1E+13	10	0.082	0.082	0.000
Max		0.082	0.082	0.000
Average		0.081	0.081	0.000
Min		0.080	0.080	0.000
Std Dev		0.001	0.001	0.000



13.37 __ PG_VOL_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.4 V
Min Limit	V

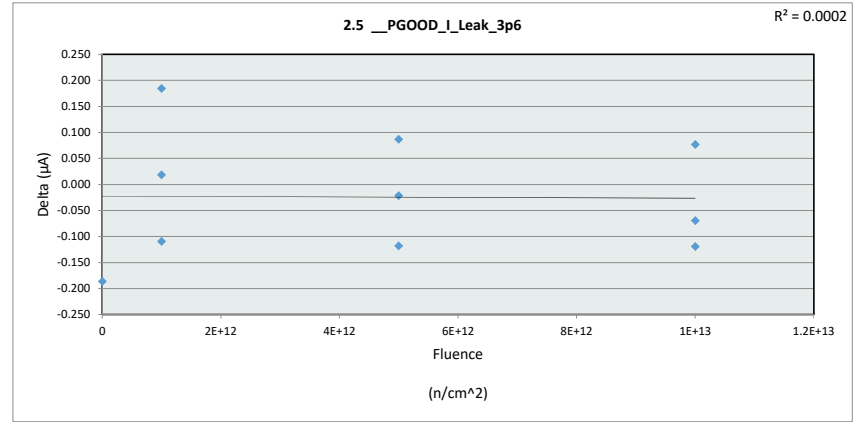
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	0.080	0.080	0.080	0.081
Average	0.080	0.081	0.081	0.081
Max	0.080	0.082	0.081	0.082
UL	0.400	0.400	0.400	0.400



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

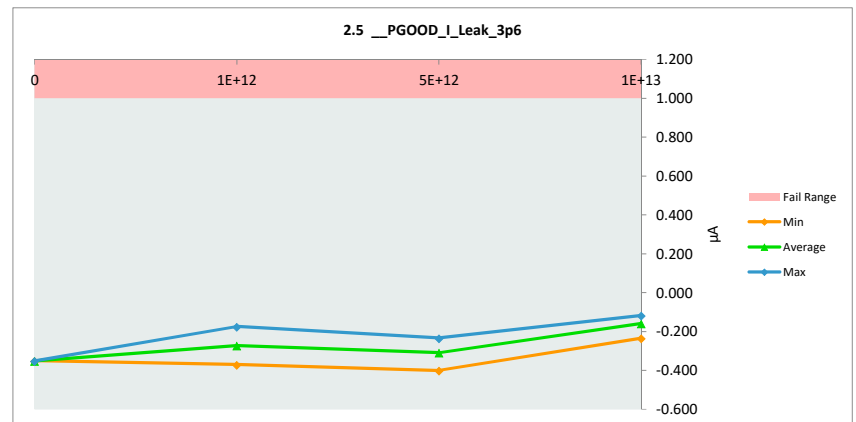
2.5 __ PGOOD_I_Leak_3p6	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-0.166	-0.351	-0.185
1E+12	2	-0.293	-0.273	0.020
1E+12	3	-0.263	-0.371	-0.108
1E+12	4	-0.361	-0.175	0.186
5E+12	5	-0.322	-0.234	0.088
5E+12	6	-0.273	-0.293	-0.020
5E+12	7	-0.283	-0.400	-0.117
1E+13	8	0.001	-0.117	-0.118
1E+13	9	-0.205	-0.127	0.078
1E+13	10	-0.166	-0.234	-0.068
	Max	0.001	-0.117	0.186
	Average	-0.233	-0.258	-0.024
	Min	-0.361	-0.400	-0.185
	Std Dev	0.104	0.099	0.116



2.5 __ PGOOD_I_Leak_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1
Min Limit	μA

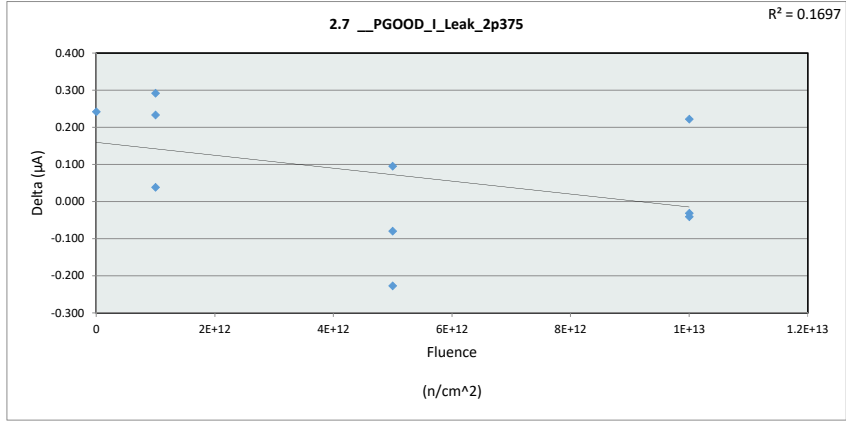
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	-0.351	-0.371	-0.400	-0.234
Average	-0.351	-0.273	-0.309	-0.159
Max	-0.351	-0.175	-0.234	-0.117
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

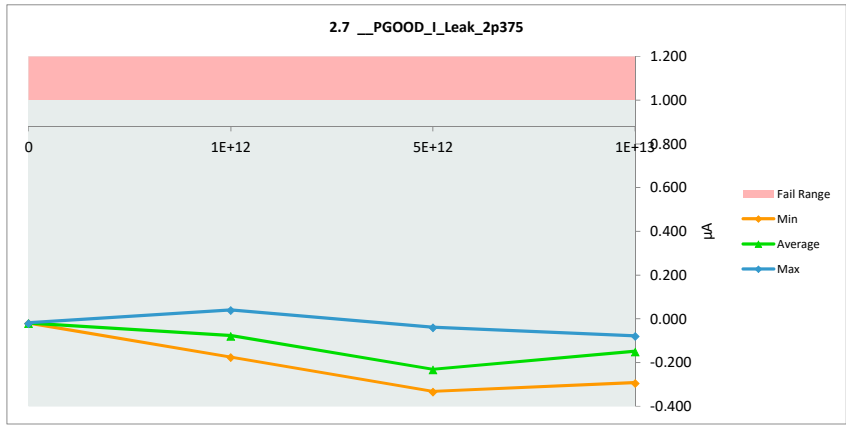
2.7 __ PGOOD_I_Leak_2p375	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1
Min Limit	1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	-0.263	-0.019	0.244
1E+12	2	-0.215	-0.175	0.040
1E+12	3	-0.332	-0.097	0.235
1E+12	4	-0.254	0.040	0.294
5E+12	5	-0.254	-0.332	-0.078
5E+12	6	-0.097	-0.322	-0.225
5E+12	7	-0.136	-0.039	0.097
1E+13	8	-0.048	-0.078	-0.030
1E+13	9	-0.302	-0.078	0.224
1E+13	10	-0.254	-0.293	-0.039
Max		-0.048	0.040	0.294
Average		-0.216	-0.139	0.076
Min		-0.332	-0.332	-0.225
Std Dev		0.092	0.134	0.171



2.7 __ PGOOD_I_Leak_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	1 μA

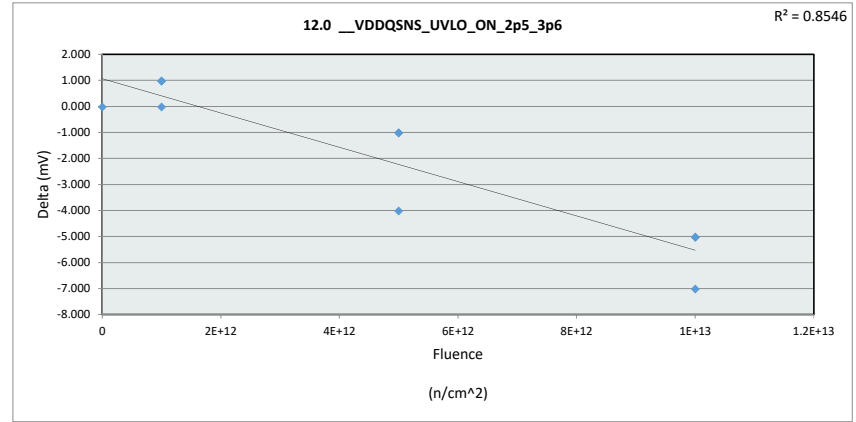
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	-0.019	-0.175	-0.332	-0.293
Average	-0.019	-0.077	-0.231	-0.150
Max	-0.019	0.040	-0.039	-0.078
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

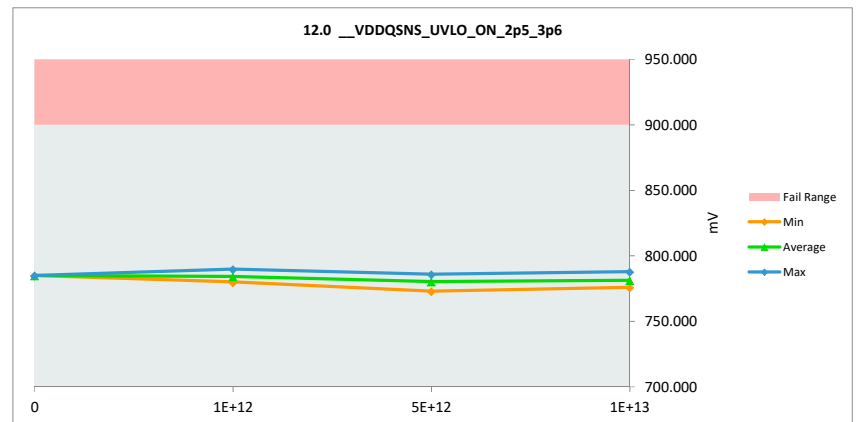
12.0 __VDDQSNS_UVLO_ON_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	900 900
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	785.000	785.000	0.000
1E+12	2	782.000	783.000	1.000
1E+12	3	789.000	790.000	1.000
1E+12	4	780.000	780.000	0.000
5E+12	5	787.000	786.000	-1.000
5E+12	6	786.000	782.000	-4.000
5E+12	7	774.000	773.000	-1.000
1E+13	8	783.000	776.000	-7.000
1E+13	9	793.000	788.000	-5.000
1E+13	10	785.000	780.000	-5.000
Max		793.000	790.000	1.000
Average		784.400	782.300	-2.100
Min		774.000	773.000	-7.000
Std Dev		5.168	5.272	2.885



12.0 __VDDQSNS_UVLO_ON_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	900 mV
Min Limit	

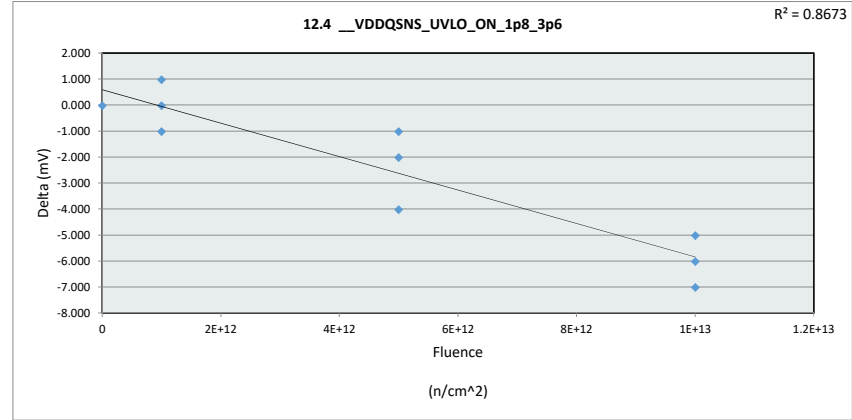
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	785.000	780.000	773.000	776.000
Average	785.000	784.333	780.333	781.333
Max	785.000	790.000	786.000	788.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

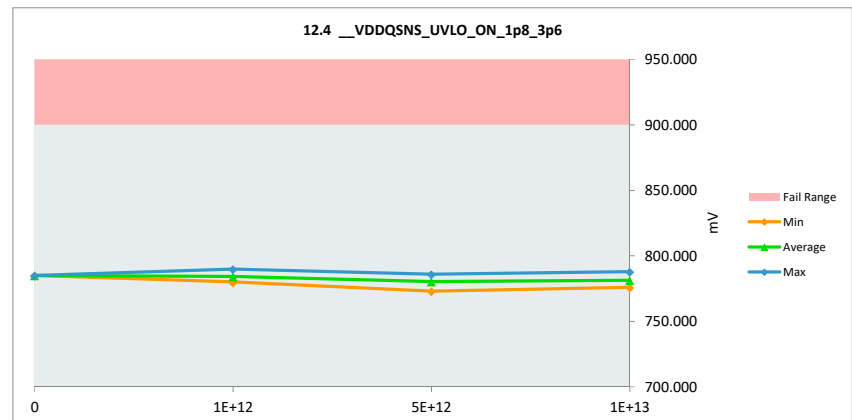
12.4 __VDDQSNS_UVLO_ON_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	900
Min Limit	900

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	785.000	785.000	0.000
1E+12	2	782.000	783.000	1.000
1E+12	3	790.000	790.000	0.000
1E+12	4	781.000	780.000	-1.000
5E+12	5	787.000	786.000	-1.000
5E+12	6	786.000	782.000	-4.000
5E+12	7	775.000	773.000	-2.000
1E+13	8	783.000	776.000	-7.000
1E+13	9	793.000	788.000	-5.000
1E+13	10	786.000	780.000	-6.000
Max		793.000	790.000	1.000
Average		784.800	782.300	-2.500
Min		775.000	773.000	-2.000
Std Dev		4.984	5.272	2.799



12.4 __VDDQSNS_UVLO_ON_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	900
Min Limit	900

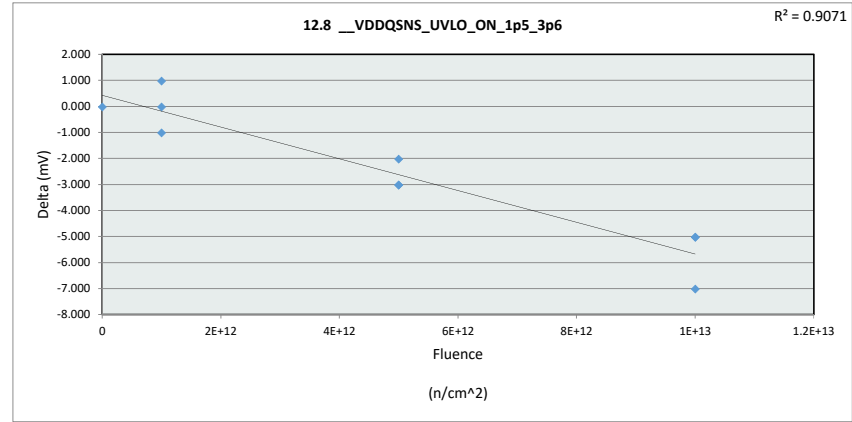
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	785.000	780.000	773.000	776.000
Average	785.000	784.333	780.333	781.333
Max	785.000	790.000	786.000	788.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

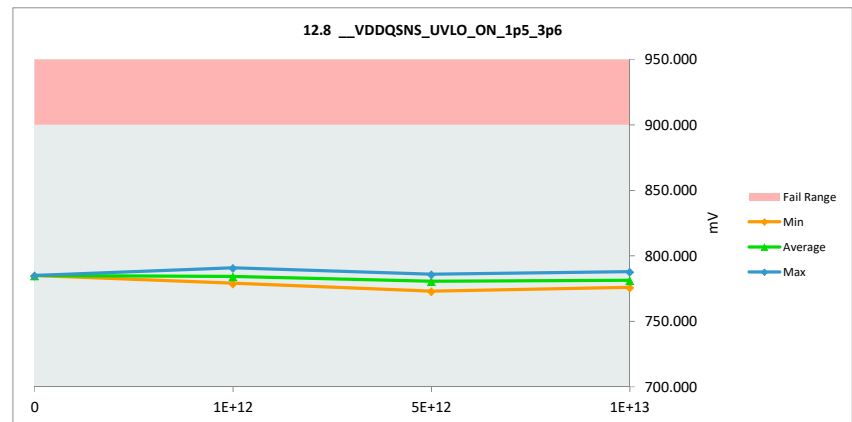
12.8 __VDDQSNS_UVLO_ON_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	900
Min Limit	900

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	785.000	785.000	0.000
1E+12	2	783.000	783.000	0.000
1E+12	3	790.000	791.000	1.000
1E+12	4	780.000	779.000	-1.000
5E+12	5	788.000	786.000	-2.000
5E+12	6	786.000	783.000	-3.000
5E+12	7	776.000	773.000	-3.000
1E+13	8	783.000	776.000	-7.000
1E+13	9	793.000	788.000	-5.000
1E+13	10	785.000	780.000	-5.000
Max		793.000	791.000	1.000
Average		784.900	782.400	-2.500
Min		776.000	773.000	-7.000
Std Dev		4.864	5.502	2.593



12.8 __VDDQSNS_UVLO_ON_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	900
Min Limit	900

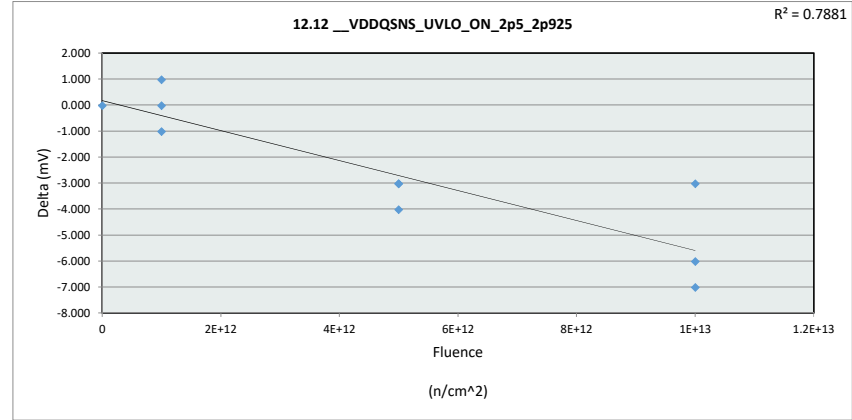
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	785.000	779.000	773.000	776.000
Average	785.000	784.333	780.667	781.333
Max	785.000	791.000	786.000	788.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

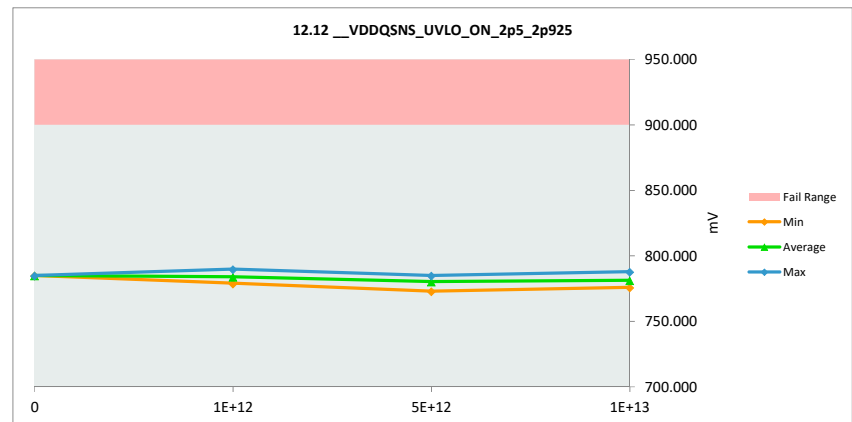
12.12_VDDQSNS_UVLO_ON_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	900
Min Limit	900

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	785.000	785.000	0.000
1E+12	2	782.000	783.000	1.000
1E+12	3	790.000	790.000	0.000
1E+12	4	780.000	779.000	-1.000
5E+12	5	788.000	785.000	-3.000
5E+12	6	787.000	783.000	-4.000
5E+12	7	776.000	773.000	-3.000
1E+13	8	783.000	776.000	-7.000
1E+13	9	791.000	788.000	-3.000
1E+13	10	786.000	780.000	-6.000
Max		791.000	790.000	1.000
Average		784.800	782.200	-2.600
Min		776.000	773.000	-7.000
Std Dev		4.638	5.266	2.633



12.12_VDDQSNS_UVLO_ON_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	900
Min Limit	mV

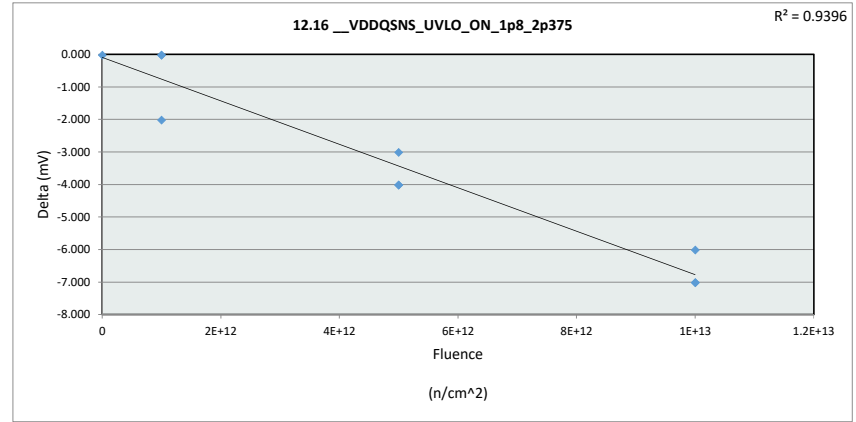
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	785.000	779.000	773.000	776.000
Average	785.000	784.000	780.333	781.333
Max	785.000	790.000	785.000	788.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

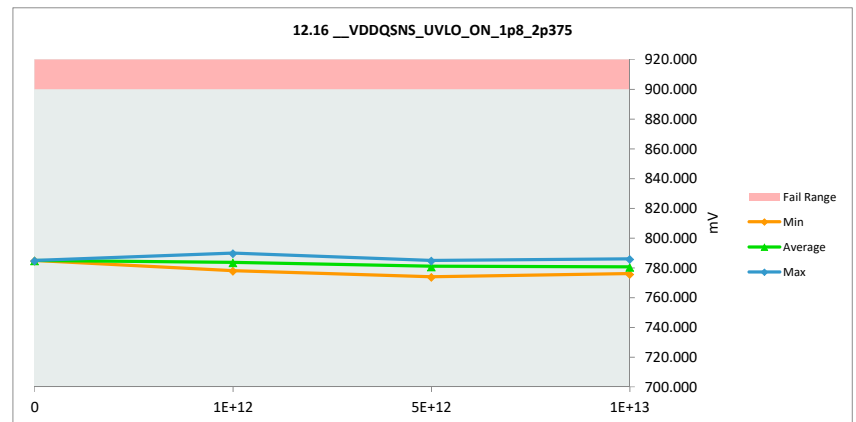
12.16_VDDQSNS_UVLO_ON_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	900
Min Limit	900

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	785.000	785.000	0.000
1E+12	2	783.000	783.000	0.000
1E+12	3	790.000	790.000	0.000
1E+12	4	780.000	778.000	-2.000
5E+12	5	788.000	785.000	-3.000
5E+12	6	788.000	784.000	-4.000
5E+12	7	778.000	774.000	-4.000
1E+13	8	783.000	776.000	-7.000
1E+13	9	793.000	786.000	-7.000
1E+13	10	786.000	780.000	-6.000
Max		793.000	790.000	0.000
Average		785.400	782.100	-3.300
Min		778.000	774.000	-4.000
Std Dev		4.575	4.977	2.791



12.16_VDDQSNS_UVLO_ON_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	900
Min Limit	mV

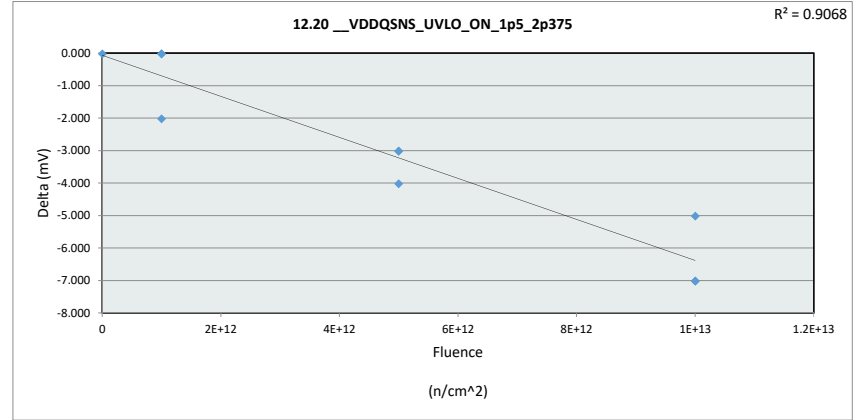
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	785.000	778.000	774.000	776.000
Average	785.000	783.667	781.000	780.667
Max	785.000	790.000	785.000	786.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

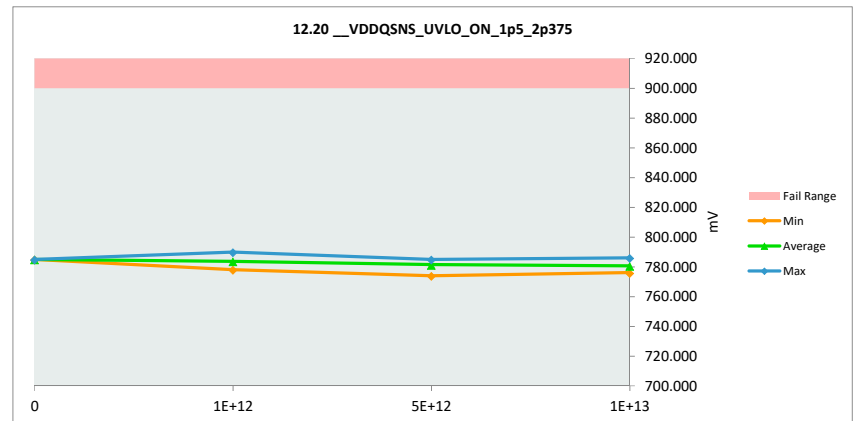
12.20_VDDQSNS_UVLO_ON_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	900
Min Limit	900

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	785.000	785.000	0.000
1E+12	2	783.000	783.000	0.000
1E+12	3	790.000	790.000	0.000
1E+12	4	780.000	778.000	-2.000
5E+12	5	788.000	785.000	-3.000
5E+12	6	788.000	785.000	-3.000
5E+12	7	778.000	774.000	-4.000
1E+13	8	783.000	776.000	-7.000
1E+13	9	793.000	786.000	-7.000
1E+13	10	785.000	780.000	-5.000
Max		793.000	790.000	0.000
Average		785.300	782.200	-3.100
Min		778.000	774.000	-4.000
Std Dev		4.572	5.029	2.685



12.20_VDDQSNS_UVLO_ON_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	900
Min Limit	mV

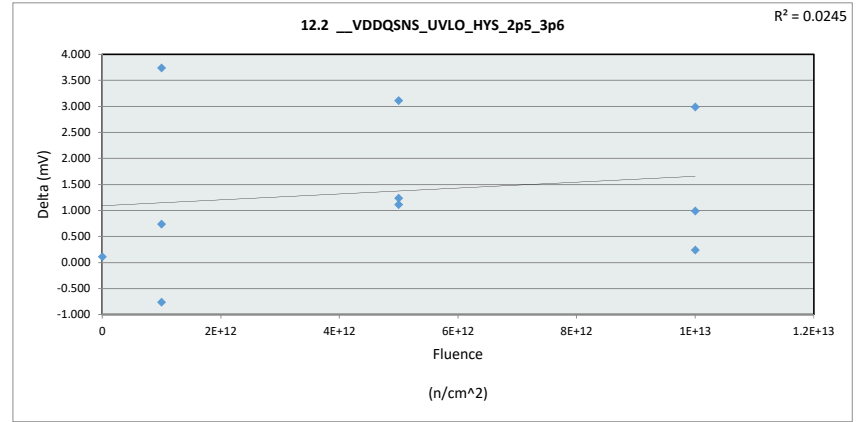
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	785.000	778.000	774.000	776.000
Average	785.000	783.667	781.333	780.667
Max	785.000	790.000	785.000	786.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

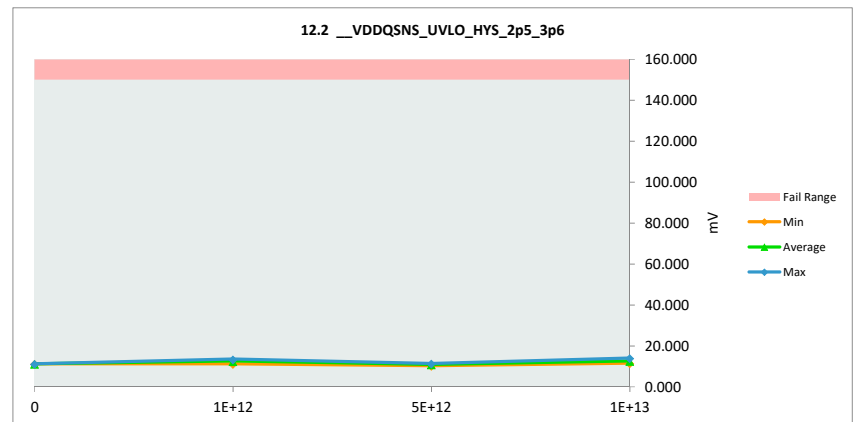
12.2 __VDDQSNS_UVLO_HYS_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	150 150
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	11.126	11.251	0.125
1E+12	2	7.500	11.251	3.751
1E+12	3	12.751	13.501	0.750
1E+12	4	13.751	13.001	-0.750
5E+12	5	8.251	11.376	3.125
5E+12	6	9.126	10.376	1.250
5E+12	7	9.876	11.001	1.125
1E+13	8	11.376	11.626	0.250
1E+13	9	11.126	14.126	3.000
1E+13	10	11.501	12.501	1.000
	Max	13.751	14.126	3.751
	Average	10.638	12.001	1.363
	Min	7.500	10.376	-0.750
	Std Dev	1.953	1.216	1.464



12.2 __VDDQSNS_UVLO_HYS_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	150 mV
Min Limit	mV

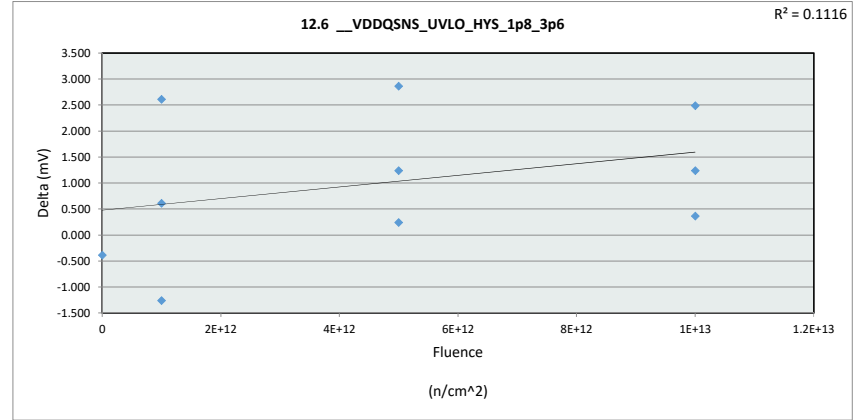
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	11.251	11.251	10.376	11.626
Average	11.251	12.584	10.918	12.751
Max	11.251	13.501	11.376	14.126
UL	150.000	150.000	150.000	150.000



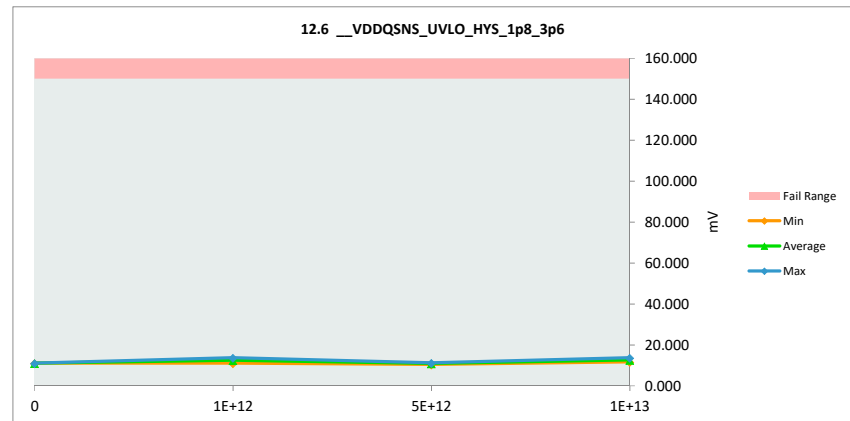
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

12.6 __VDDQSNS_UVLO_HYS_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mV mV
Max Limit	150 150
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	11.501	11.126	-0.375
1E+12	2	8.501	11.126	2.625
1E+12	3	13.126	13.751	0.625
1E+12	4	13.876	12.626	-1.250
5E+12	5	8.251	11.126	2.875
5E+12	6	9.251	10.501	1.250
5E+12	7	11.001	11.251	0.250
1E+13	8	11.376	11.751	0.375
1E+13	9	11.251	13.751	2.500
1E+13	10	11.501	12.751	1.250
	Max	13.876	13.751	2.875
	Average	10.964	11.976	1.013
	Min	8.251	10.501	-1.250
	Std Dev	1.836	1.166	1.357



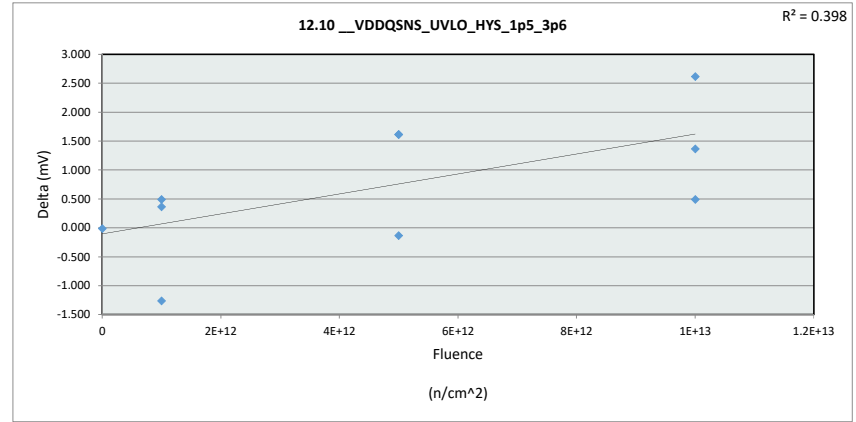
12.6 __VDDQSNS_UVLO_HYS_1p8_3p6				
Test Site				
Tester				
Test Number				
Max Limit	150	mV		
Min Limit		mV		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	11.126	11.126	10.501	11.751
Average	11.126	12.501	10.959	12.751
Max	11.126	13.751	13.751	13.751
UL	150.000	150.000	150.000	150.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

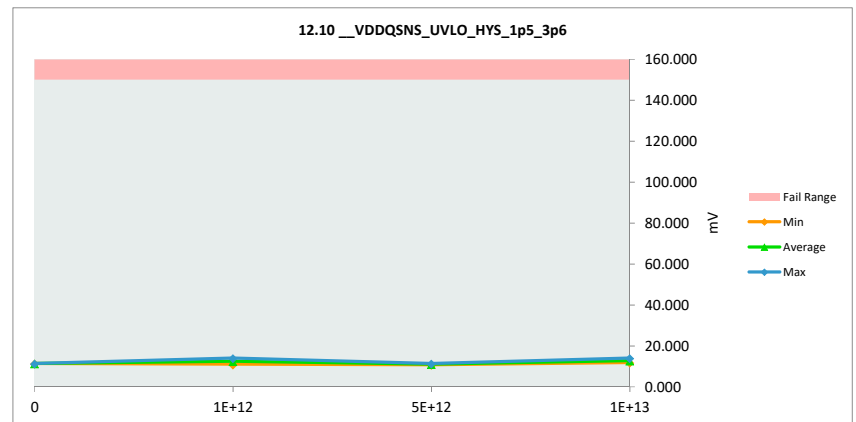
12.10_VDDQSNS_UVLO_HYS_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	150
Min Limit	150

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	11.376	11.376	0.000
1E+12	2	10.501	11.001	0.500
1E+12	3	13.751	14.126	0.375
1E+12	4	13.626	12.376	-1.250
5E+12	5	9.251	10.876	1.625
5E+12	6	9.751	11.376	1.625
5E+12	7	11.376	11.251	-0.125
1E+13	8	11.376	11.876	0.500
1E+13	9	11.501	14.126	2.625
1E+13	10	11.126	12.501	1.375
	Max	13.751	14.126	2.625
	Average	11.364	12.089	0.725
	Min	9.251	10.876	-1.250
	Std Dev	1.442	1.200	1.107



12.10_VDDQSNS_UVLO_HYS_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	150
Min Limit	mV

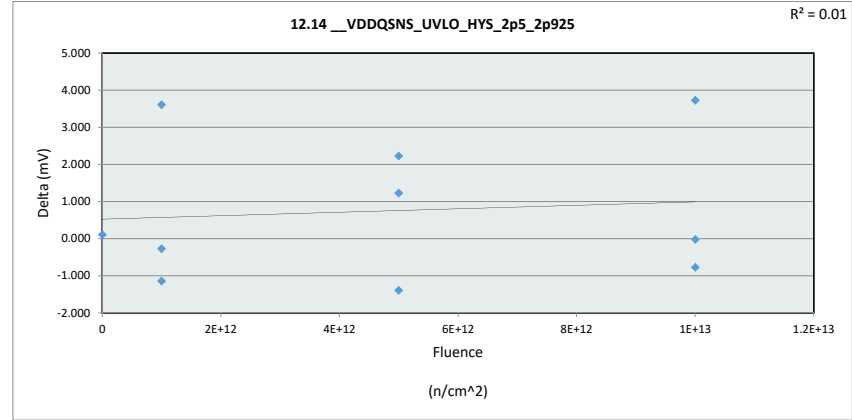
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	11.376	11.001	10.876	11.876
Average	11.376	12.501	11.168	12.834
Max	11.376	14.126	11.376	14.126
UL	150.000	150.000	150.000	150.000



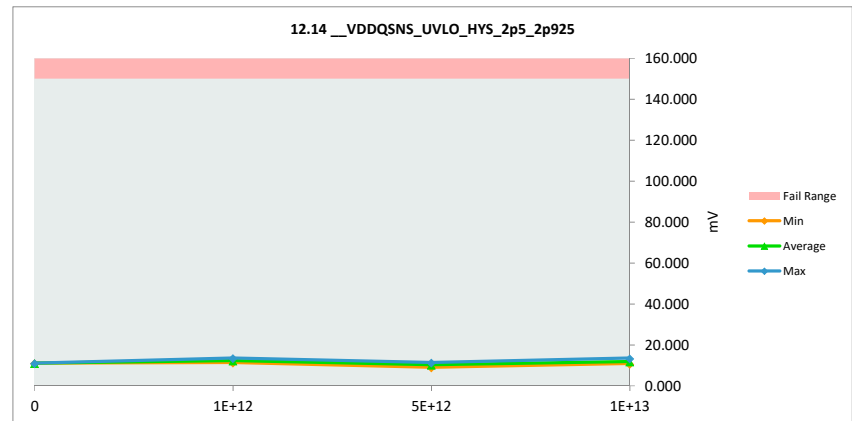
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

12.14_VDDQSNS_UVLO_HYS_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	150
Min Limit	150

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	11.001	11.126	0.125
1E+12	2	7.876	11.501	3.625
1E+12	3	13.876	13.626	-0.250
1E+12	4	13.001	11.876	-1.125
5E+12	5	9.126	11.376	2.250
5E+12	6	10.501	9.126	-1.375
5E+12	7	9.376	10.626	1.250
1E+13	8	11.251	11.251	0.000
1E+13	9	9.751	13.501	3.750
1E+13	10	11.626	10.876	-0.750
Max		13.876	13.626	3.750
Average		10.739	11.489	0.750
Min		7.876	9.126	-1.375
Std Dev		1.819	1.320	1.886



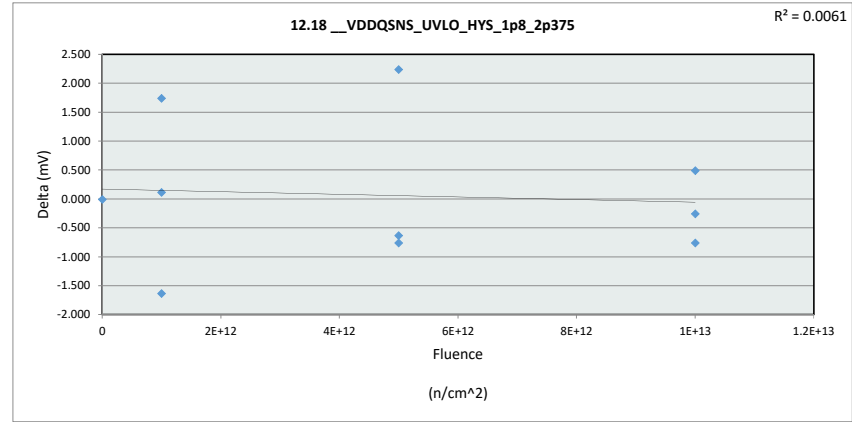
12.14_VDDQSNS_UVLO_HYS_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	150 mV			
Min Limit	mV			
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	11.126	11.501	9.126	10.876
Average	11.126	12.334	10.376	11.876
Max	11.126	13.626	11.376	13.501
UL	150.000	150.000	150.000	150.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

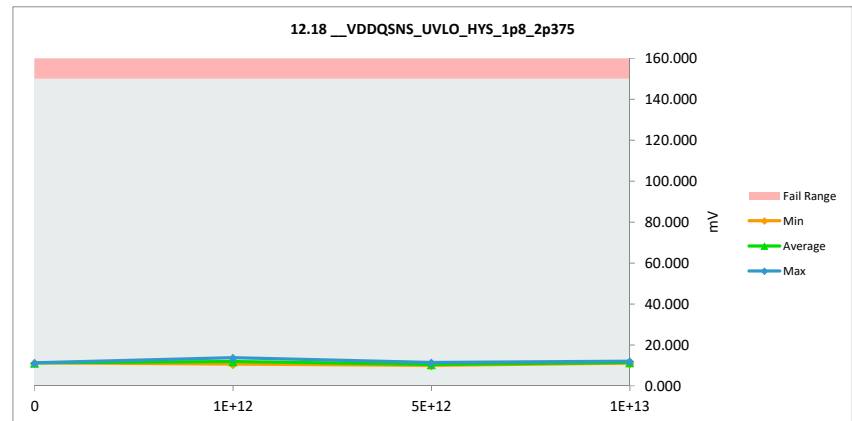
12.18_VDDQSNS_UVLO_HYS_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	150
Min Limit	150

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	11.251	11.251	0.000
1E+12	2	8.876	10.626	1.750
1E+12	3	13.626	13.751	0.125
1E+12	4	12.876	11.251	-1.625
5E+12	5	9.126	11.376	2.250
5E+12	6	11.126	10.376	-0.750
5E+12	7	10.626	10.001	-0.625
1E+13	8	11.251	11.001	-0.250
1E+13	9	11.501	12.001	0.500
1E+13	10	11.876	11.126	-0.750
	Max	13.626	13.751	2.250
	Average	11.214	11.276	0.063
	Min	8.876	10.001	-1.625
	Std Dev	1.464	1.034	1.182



12.18_VDDQSNS_UVLO_HYS_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	150 mV
Min Limit	mV

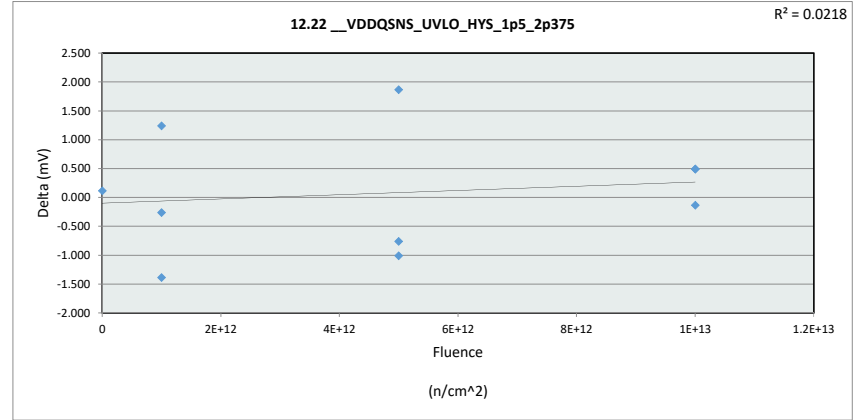
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	11.251	10.626	10.001	11.001
Average	11.251	11.876	10.584	11.376
Max	11.251	13.751	11.376	12.001
UL	150.000	150.000	150.000	150.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

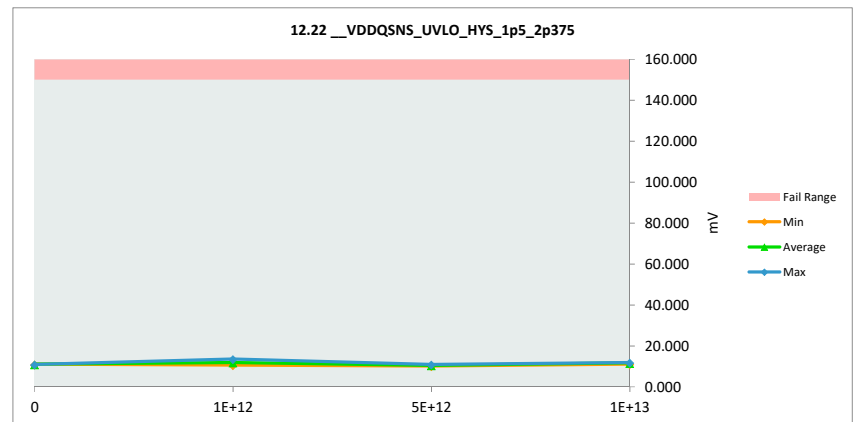
12.22_VDDQSNS_UVLO_HYS_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	150
Min Limit	150

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	10.876	11.001	0.125
1E+12	2	9.376	10.626	1.250
1E+12	3	13.876	13.626	-0.250
1E+12	4	12.876	11.501	-1.375
5E+12	5	9.126	11.001	1.875
5E+12	6	11.376	10.626	-0.750
5E+12	7	11.126	10.126	-1.000
1E+13	8	11.376	11.876	0.500
1E+13	9	11.376	11.876	0.500
1E+13	10	11.251	11.126	-0.125
	Max	13.876	13.626	1.875
	Average	11.264	11.339	0.075
	Min	9.126	10.126	-1.375
	Std Dev	1.405	0.977	1.004



12.22_VDDQSNS_UVLO_HYS_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	150 mV
Min Limit	mV

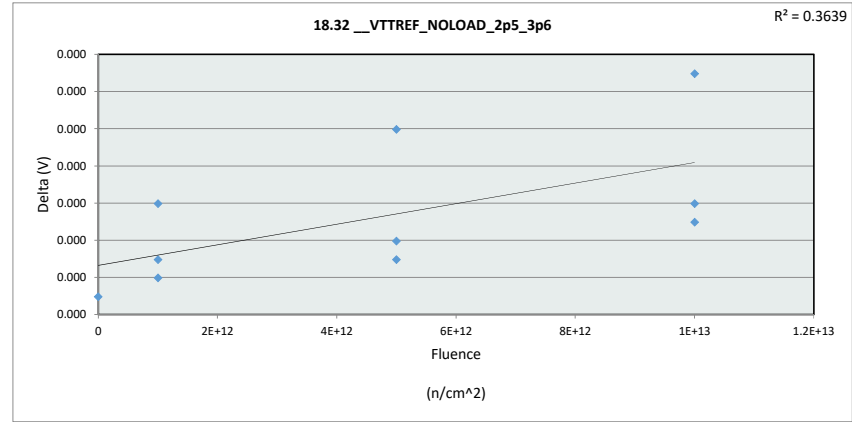
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	11.001	10.626	10.126	11.126
Average	11.001	11.918	10.584	11.626
Max	11.001	13.626	11.001	11.876
UL	150.000	150.000	150.000	150.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

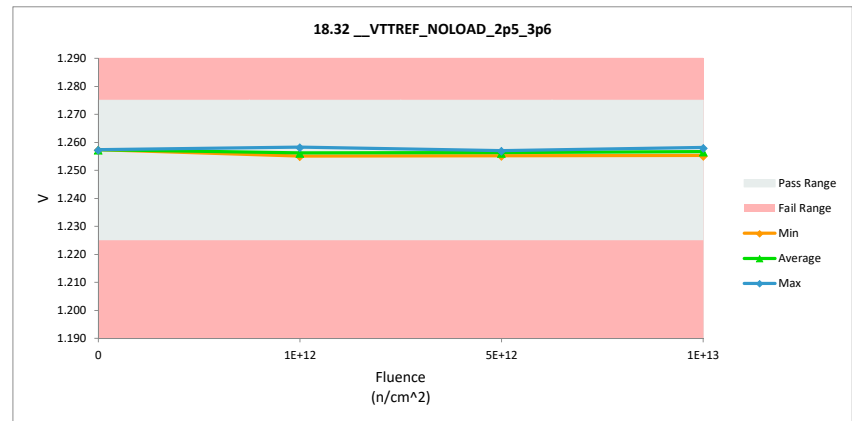
18.32_VTTREF_NOLOAD_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
Max		1.258	1.258	0.000
Average		1.256	1.256	0.000
Min		1.255	1.255	0.000
Std Dev		0.001	0.001	0.000



18.32_VTTREF_NOLOAD_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

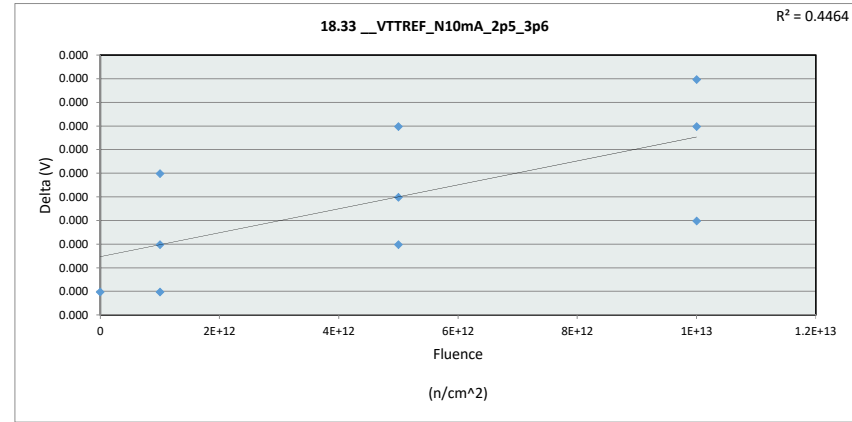
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

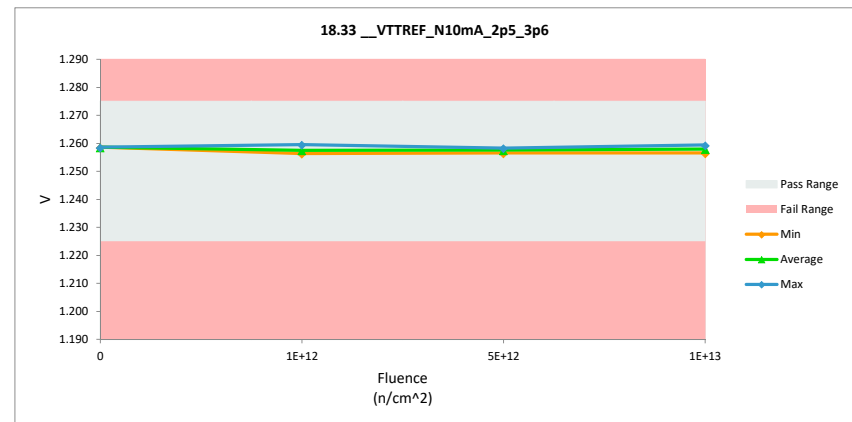
18.33_VTTREF_N10mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.275 1.275
Min Limit	1.225 1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.259	1.259	0.000
1E+12	2	1.257	1.257	0.000
1E+12	3	1.256	1.256	0.000
1E+12	4	1.260	1.260	0.000
5E+12	5	1.258	1.258	0.000
5E+12	6	1.256	1.256	0.000
5E+12	7	1.258	1.258	0.000
1E+13	8	1.259	1.259	0.000
1E+13	9	1.257	1.257	0.000
1E+13	10	1.258	1.258	0.000
Max		1.260	1.260	0.000
Average		1.258	1.258	0.000
Min		1.256	1.256	0.000
Std Dev		0.001	0.001	0.000



18.33_VTTREF_N10mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275 V
Min Limit	1.225 V

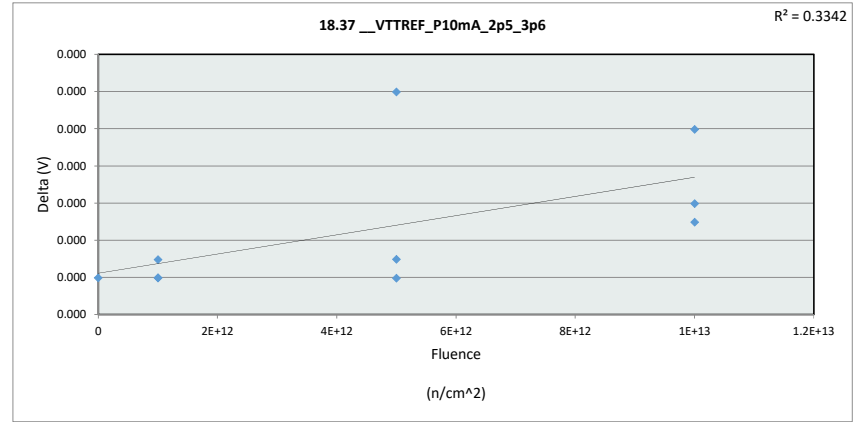
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.259	1.256	1.256	1.257
Average	1.259	1.257	1.258	1.258
Max	1.259	1.260	1.258	1.259
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

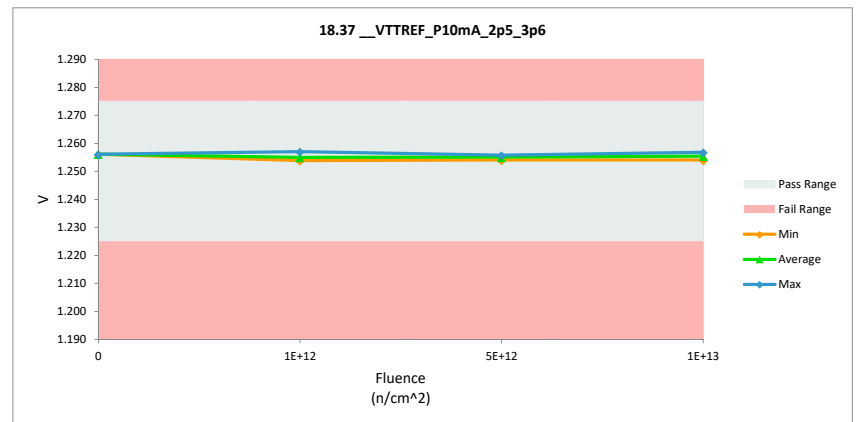
18.37 __ VTTREF_P10mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.275 1.275
Min Limit	1.225 1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.256	1.256	0.000
1E+12	2	1.254	1.254	0.000
1E+12	3	1.254	1.254	0.000
1E+12	4	1.257	1.257	0.000
5E+12	5	1.256	1.256	0.000
5E+12	6	1.254	1.254	0.000
5E+12	7	1.255	1.255	0.000
1E+13	8	1.257	1.257	0.000
1E+13	9	1.254	1.254	0.000
1E+13	10	1.255	1.255	0.000
	Max	1.257	1.257	0.000
	Average	1.255	1.255	0.000
	Min	1.254	1.254	0.000
	Std Dev	0.001	0.001	0.000



18.37 __ VTTREF_P10mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275 V
Min Limit	1.225 V

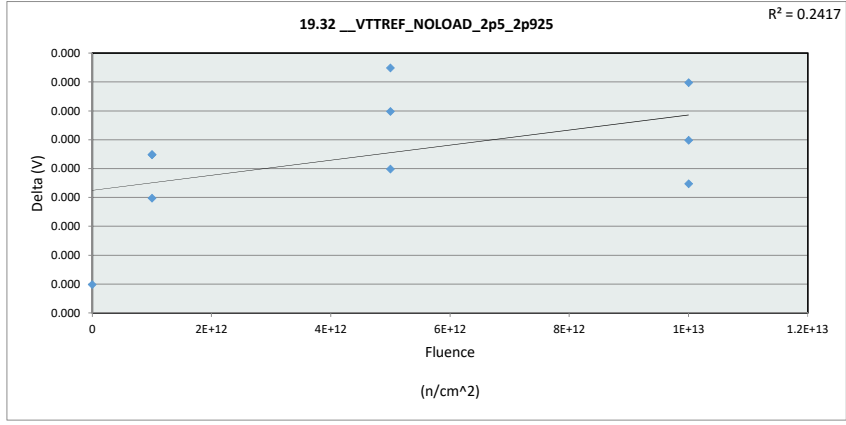
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.256	1.254	1.254	1.254
Average	1.256	1.255	1.255	1.255
Max	1.256	1.257	1.256	1.257
UL	1.275	1.275	1.275	1.275



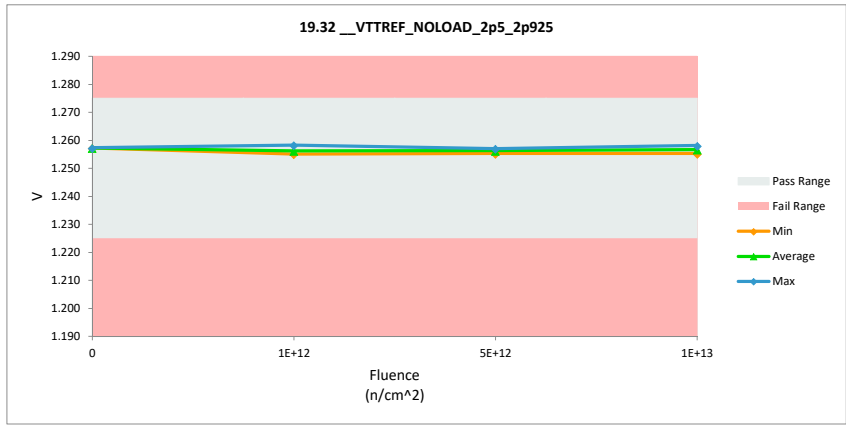
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

19.32_VTTREF_NOLOAD_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



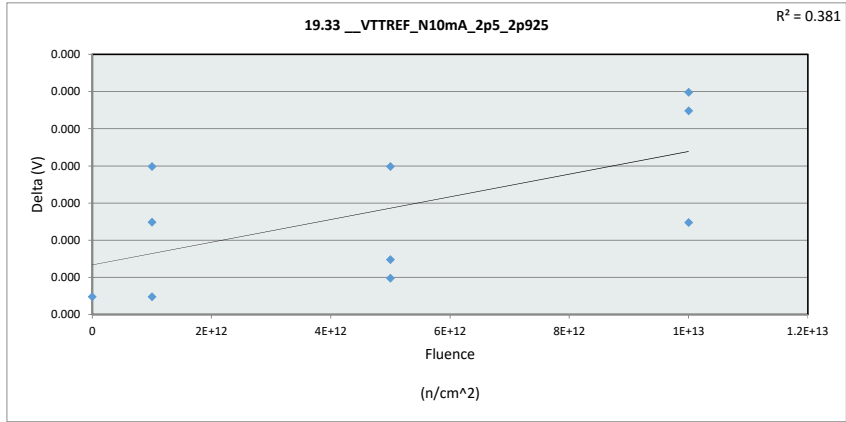
19.32_VTTREF_NOLOAD_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	1.275	V		
Min Limit	1.225	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

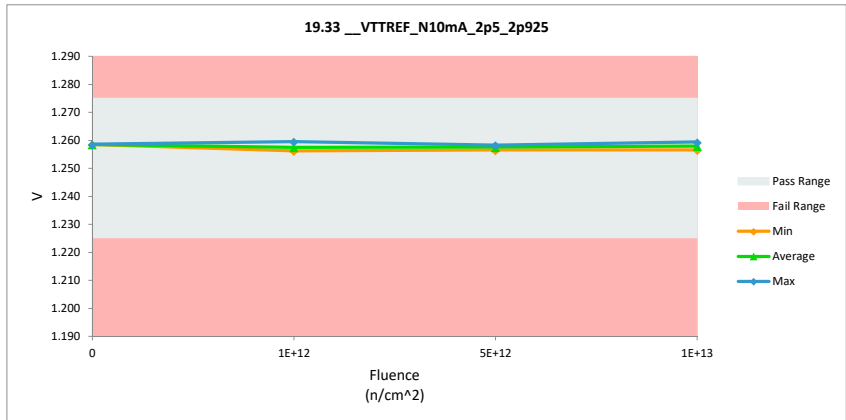
19.33_VTTREF_N10mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.259	1.259	0.000
1E+12	2	1.257	1.257	0.000
1E+12	3	1.256	1.256	0.000
1E+12	4	1.260	1.260	0.000
5E+12	5	1.258	1.258	0.000
5E+12	6	1.256	1.256	0.000
5E+12	7	1.258	1.258	0.000
1E+13	8	1.259	1.259	0.000
1E+13	9	1.257	1.257	0.000
1E+13	10	1.258	1.258	0.000
	Max	1.260	1.260	0.000
	Average	1.258	1.258	0.000
	Min	1.256	1.256	0.000
	Std Dev	0.001	0.001	0.000



19.33_VTTREF_N10mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

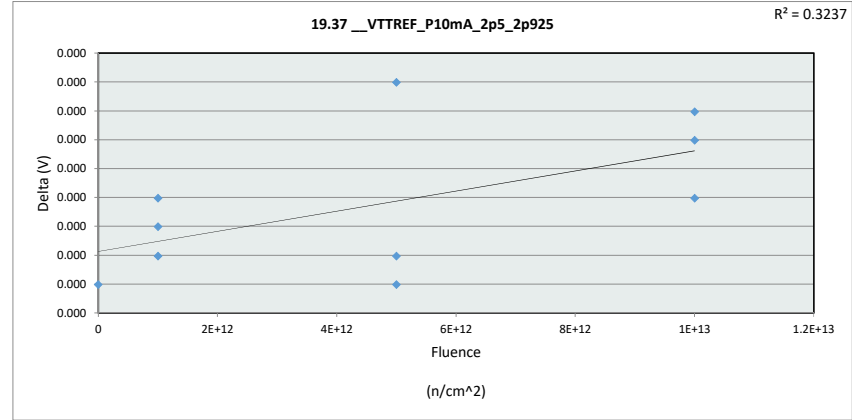
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.259	1.256	1.256	1.257
Average	1.259	1.257	1.258	1.258
Max	1.259	1.260	1.258	1.259
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

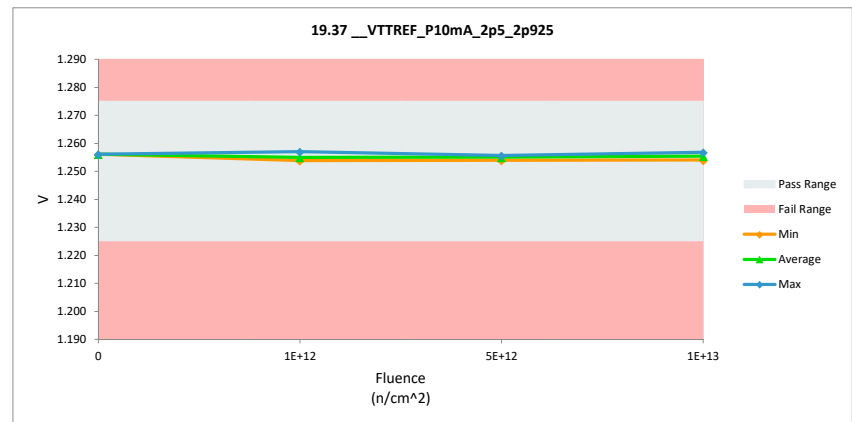
19.37 __ VTTREF_P10mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.275 1.275
Min Limit	1.225 1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.256	1.256	0.000
1E+12	2	1.254	1.254	0.000
1E+12	3	1.254	1.254	0.000
1E+12	4	1.257	1.257	0.000
5E+12	5	1.256	1.256	0.000
5E+12	6	1.254	1.254	0.000
5E+12	7	1.255	1.255	0.000
1E+13	8	1.257	1.257	0.000
1E+13	9	1.254	1.254	0.000
1E+13	10	1.255	1.255	0.000
	Max	1.257	1.257	0.000
	Average	1.255	1.255	0.000
	Min	1.254	1.254	0.000
	Std Dev	0.001	0.001	0.000



19.37 __ VTTREF_P10mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275 V
Min Limit	1.225 V

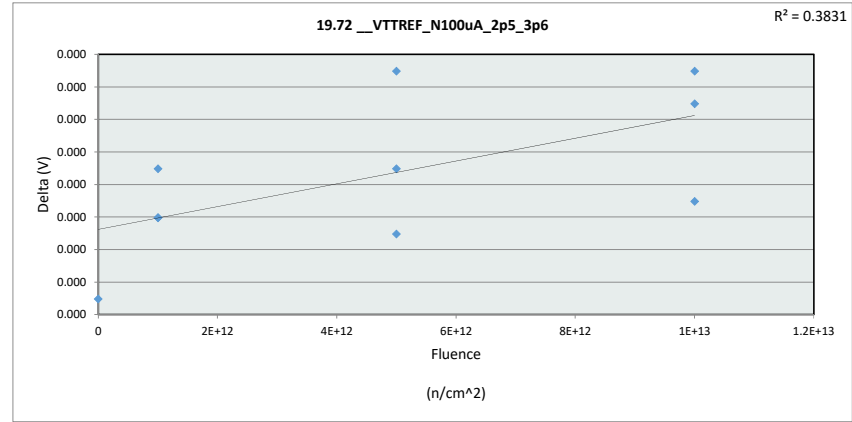
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.256	1.254	1.254	1.254
Average	1.256	1.255	1.255	1.255
Max	1.256	1.257	1.256	1.257
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

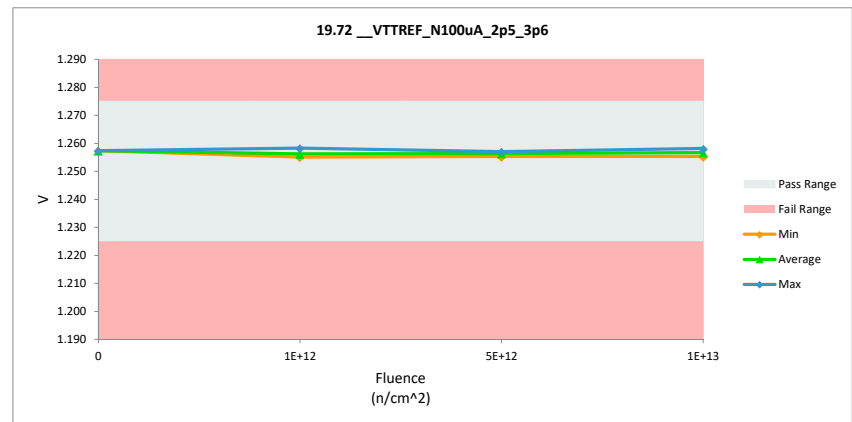
19.72_VTTREF_N100uA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.72_VTTREF_N100uA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

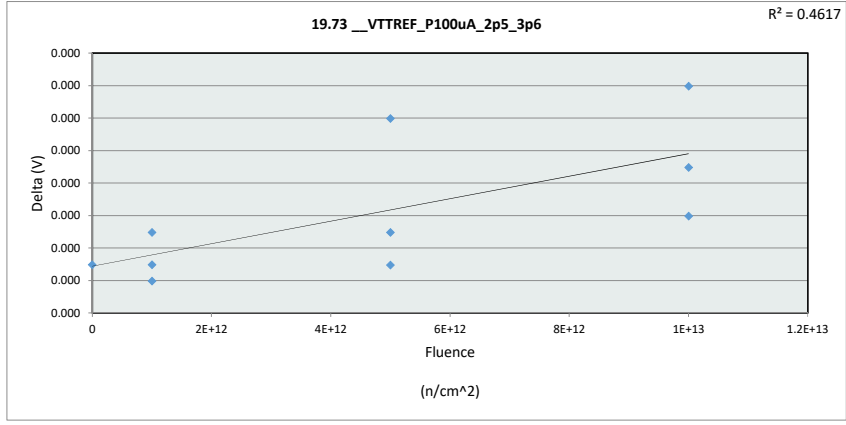
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

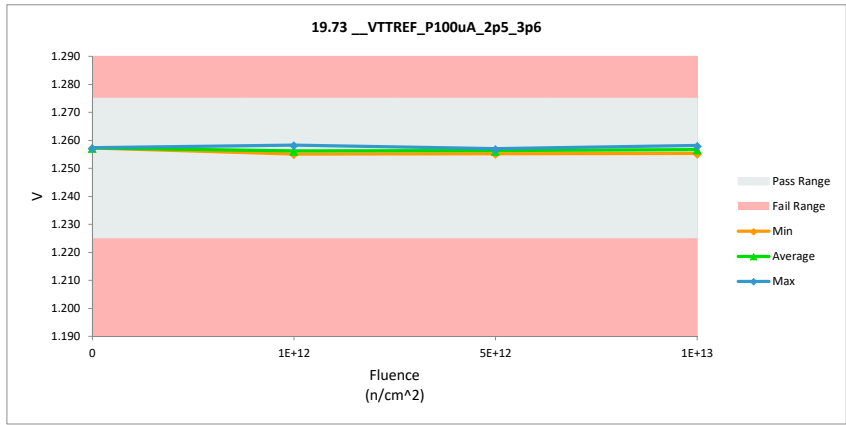
19.73_VTTREF_P100uA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.73_VTTREF_P100uA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

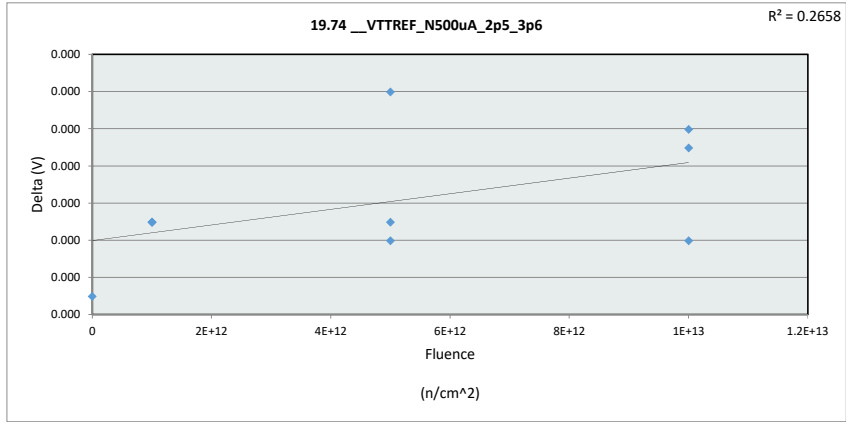
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

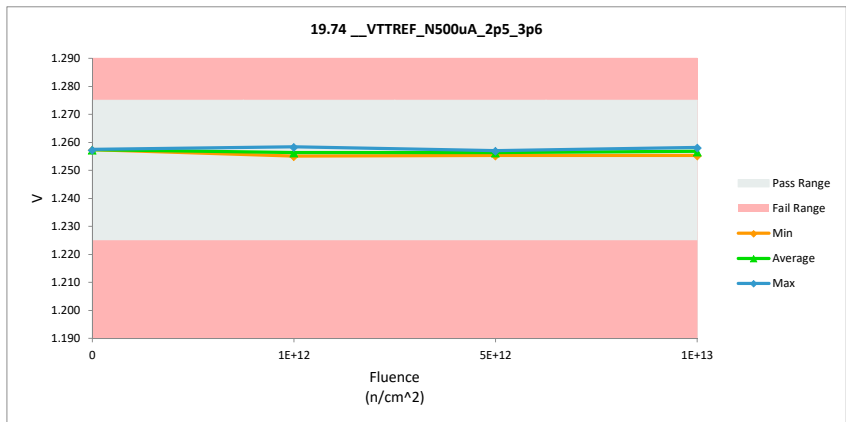
19.74_VTTREF_N500uA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.257	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.74_VTTREF_N500uA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

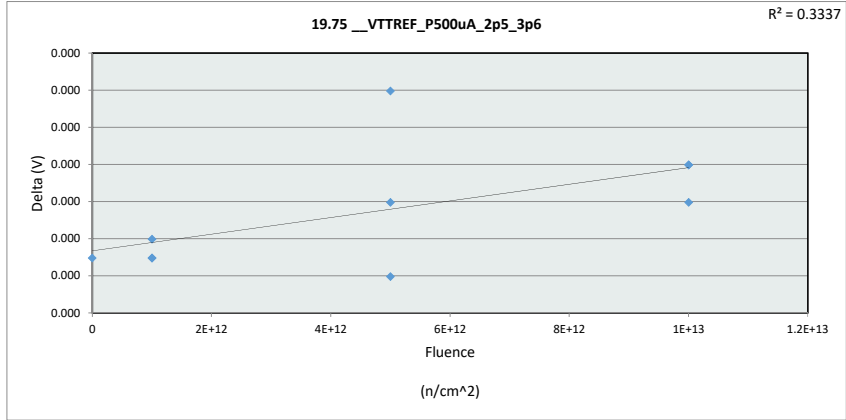
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

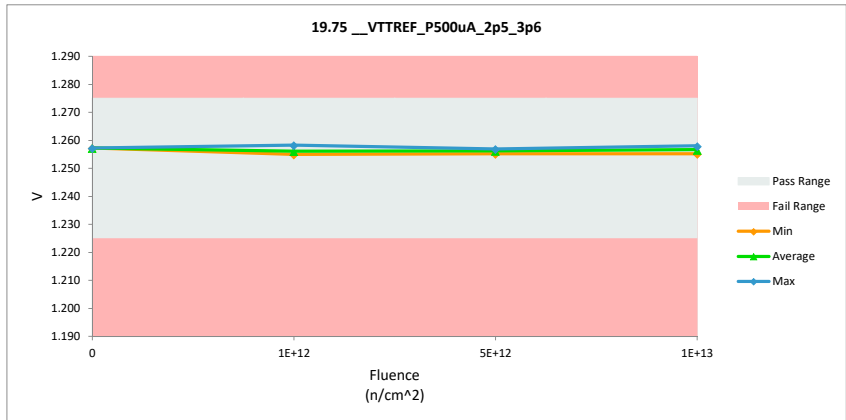
19.75_VTTREF_P500uA_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.275	1.275
Min Limit	1.225	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
Max		1.258	1.258	0.000
Average		1.256	1.256	0.000
Min		1.255	1.255	0.000
Std Dev		0.001	0.001	0.000



19.75_VTTREF_P500uA_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	1.275	V
Min Limit	1.225	V

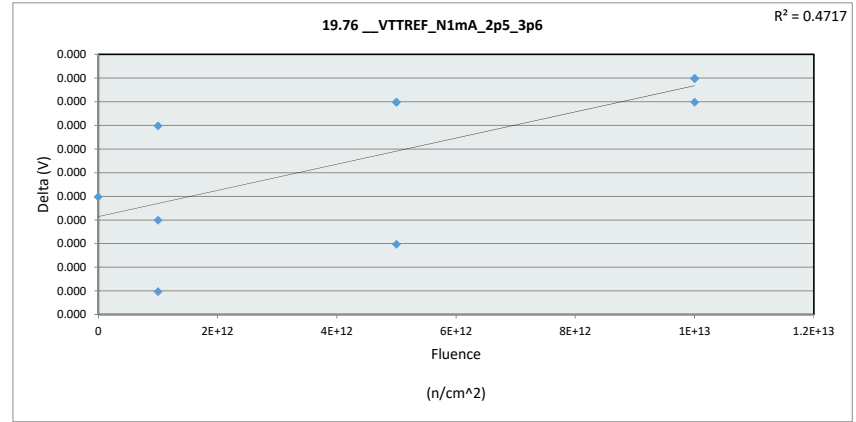
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

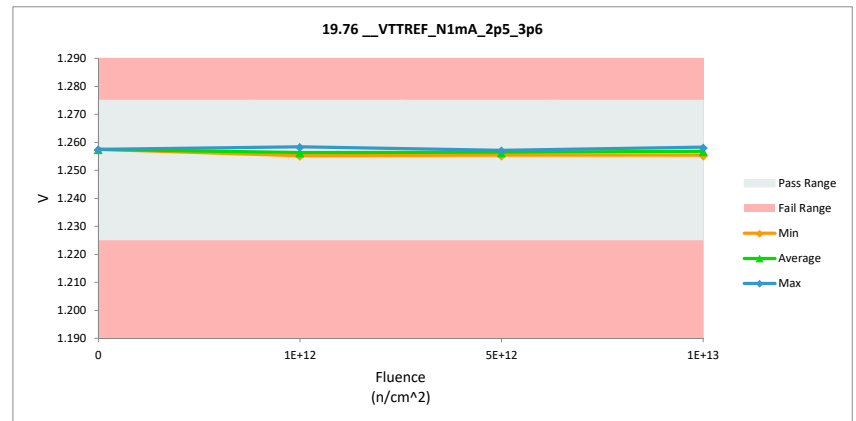
19.76_VTTREF_N1mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.275 1.275
Min Limit	1.225 1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.257	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.76_VTTREF_N1mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275 V
Min Limit	1.225 V

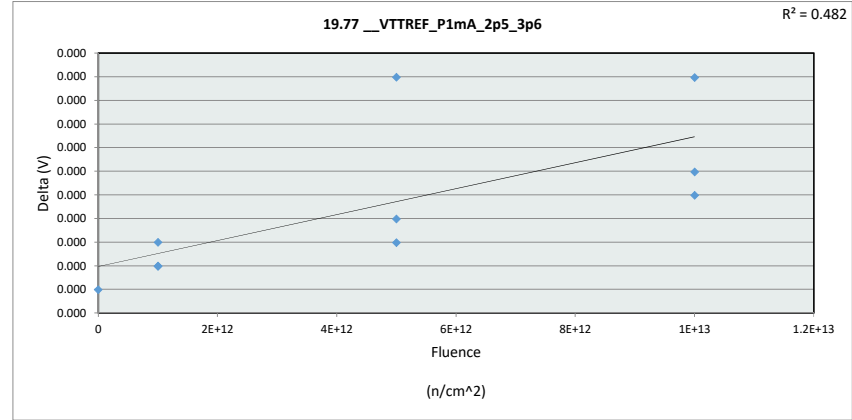
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.257	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

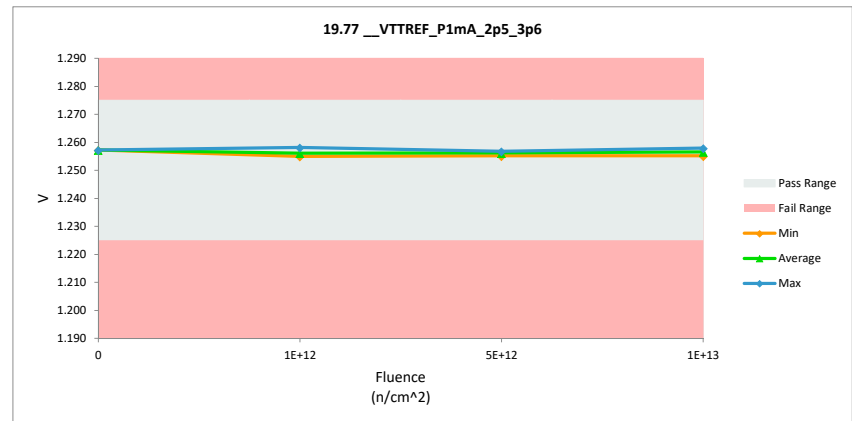
19.77 __ VTTREF_P1mA_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.275	1.275
Min Limit	1.225	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.77 __ VTTREF_P1mA_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	1.275	V
Min Limit	1.225	V

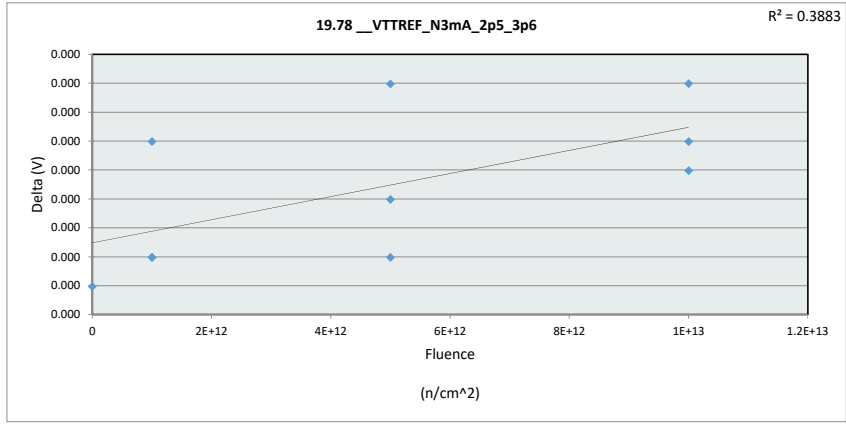
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

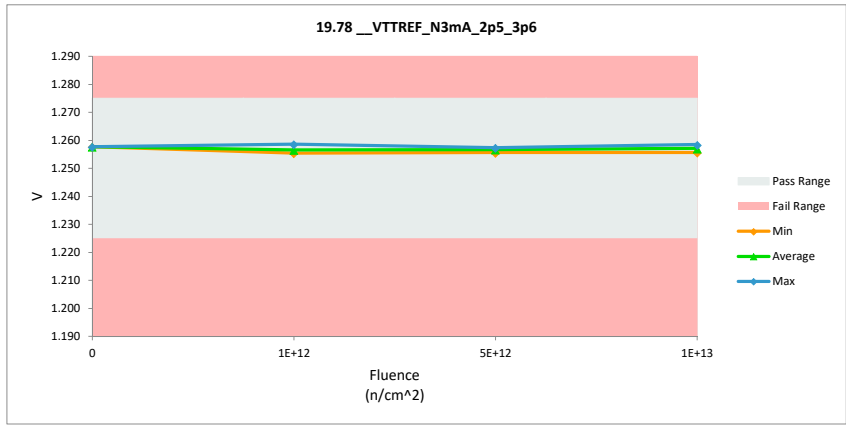
19.78_VTTREF_N3mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.258	1.258	0.000
1E+12	2	1.256	1.256	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.259	1.259	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.256	1.256	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.256	1.256	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.259	1.259	0.000
	Average	1.257	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.78_VTTREF_N3mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

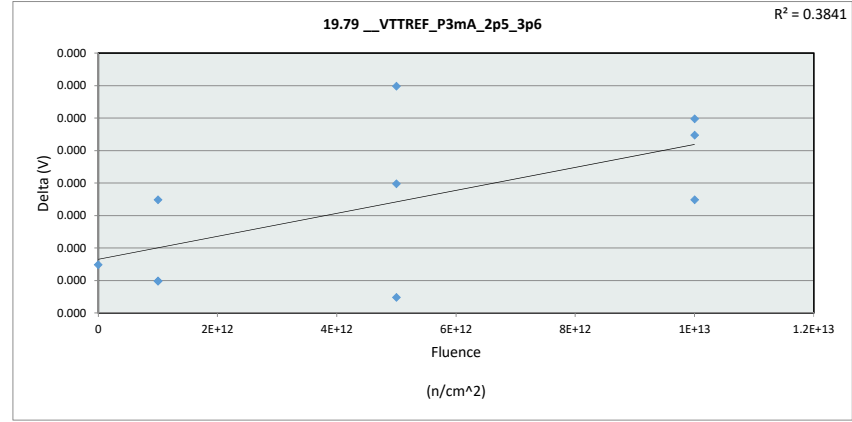
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.258	1.255	1.256	1.256
Average	1.258	1.257	1.257	1.257
Max	1.258	1.259	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

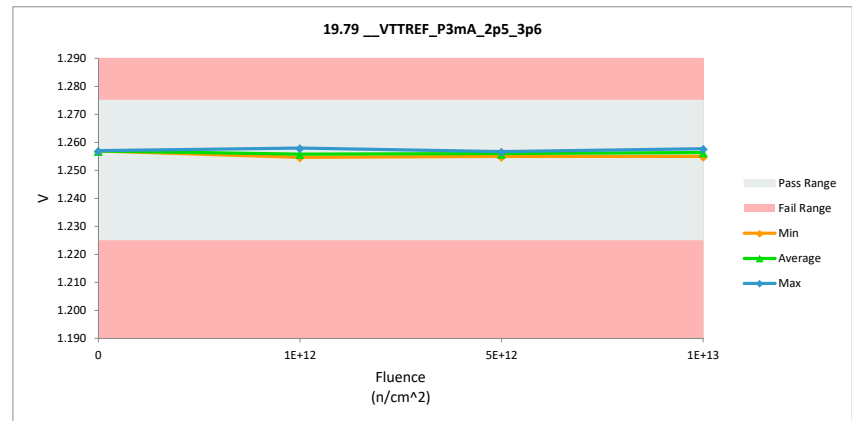
19.79 __ VTTREF_P3mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.256	1.256	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.256	1.256	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.79 __ VTTREF_P3mA_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

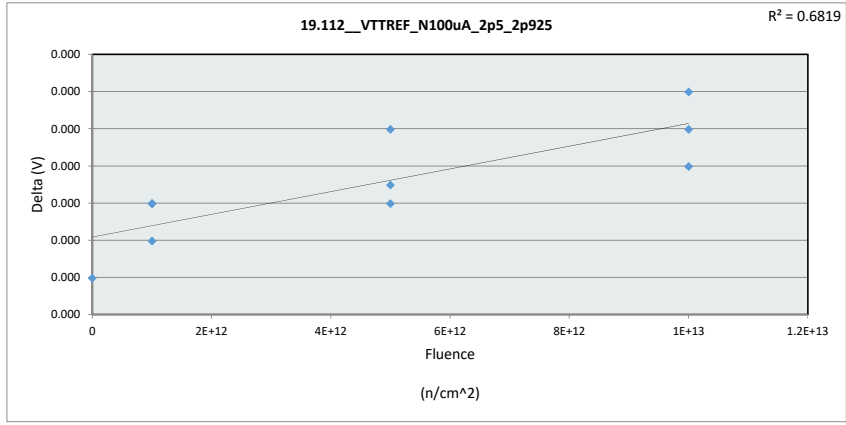
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.256
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

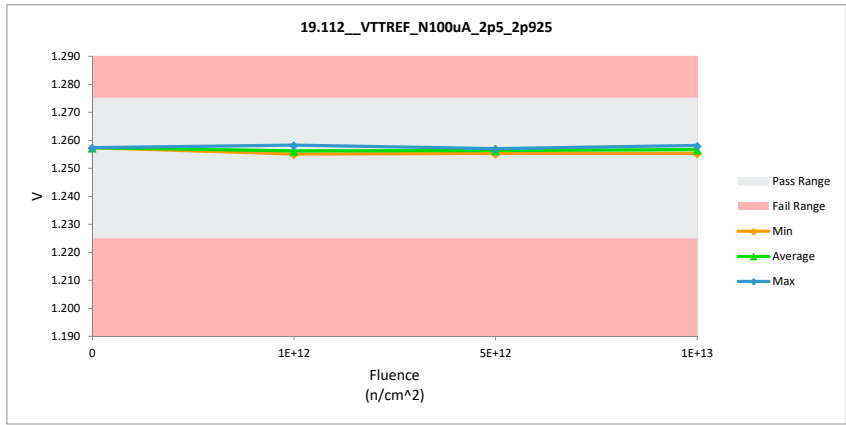
19.112_VTTREF_N100uA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.112_VTTREF_N100uA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

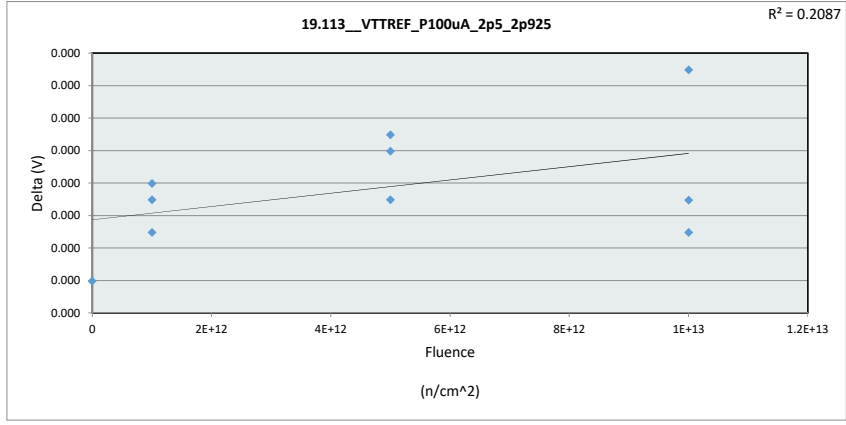
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



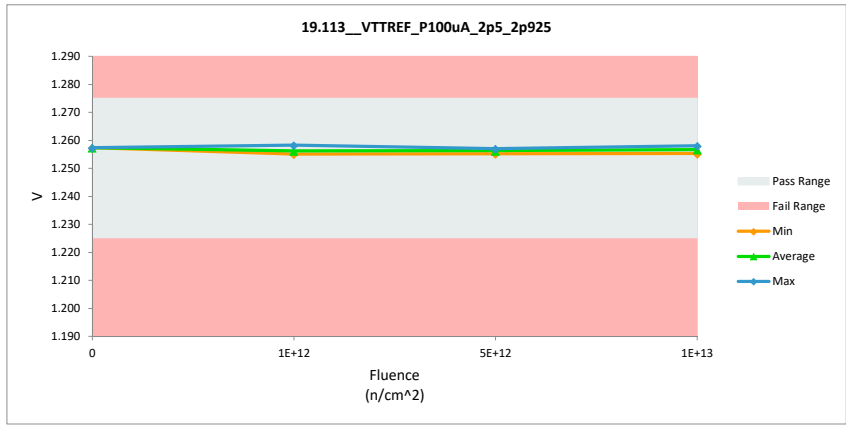
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

19.113_VTTREF_P100uA_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.275	1.275
Min Limit	1.225	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



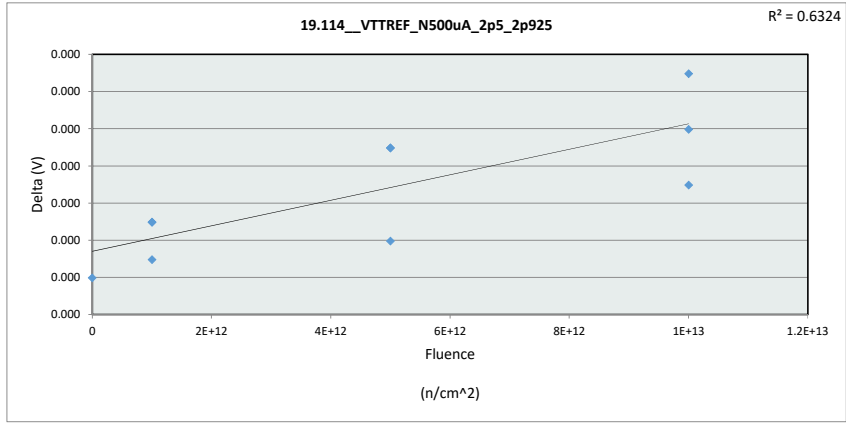
19.113_VTTREF_P100uA_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	1.275	V		
Min Limit	1.225	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

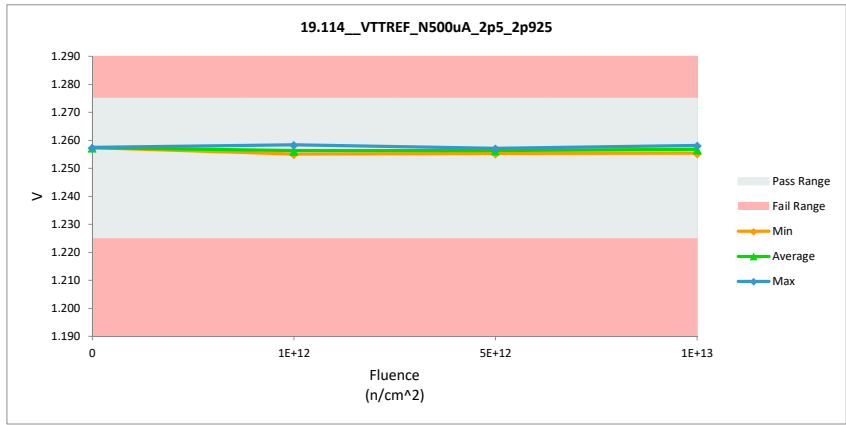
19.114_VTTREF_N500uA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.257	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.114_VTTREF_N500uA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

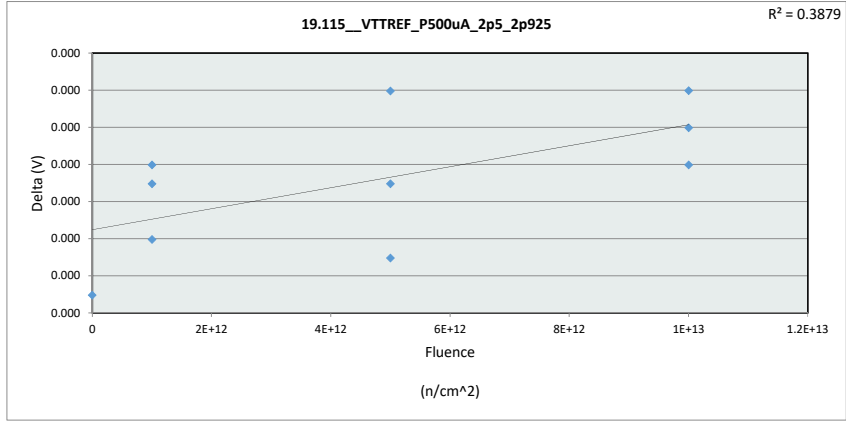
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

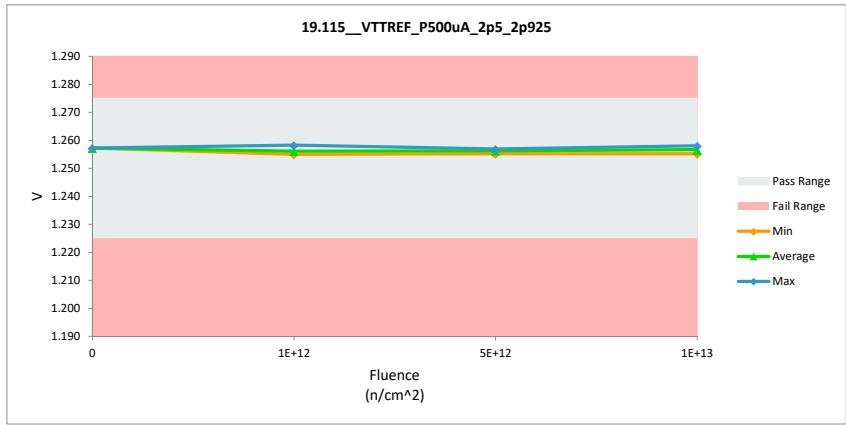
19.115_VTTREF_P500uA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.115_VTTREF_P500uA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

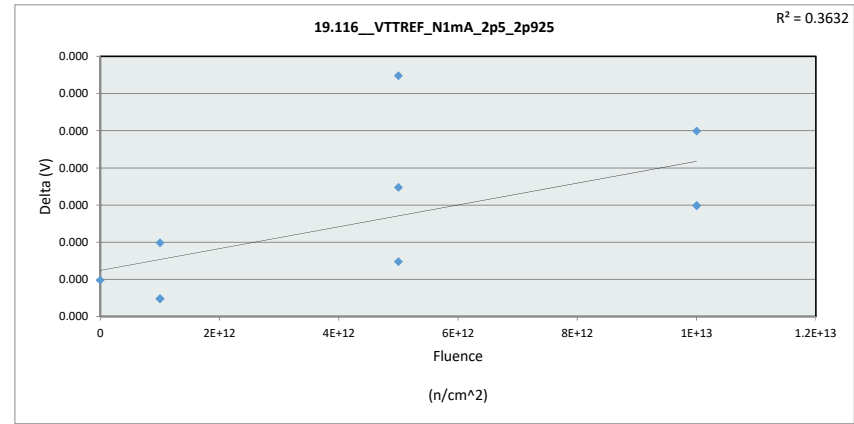
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

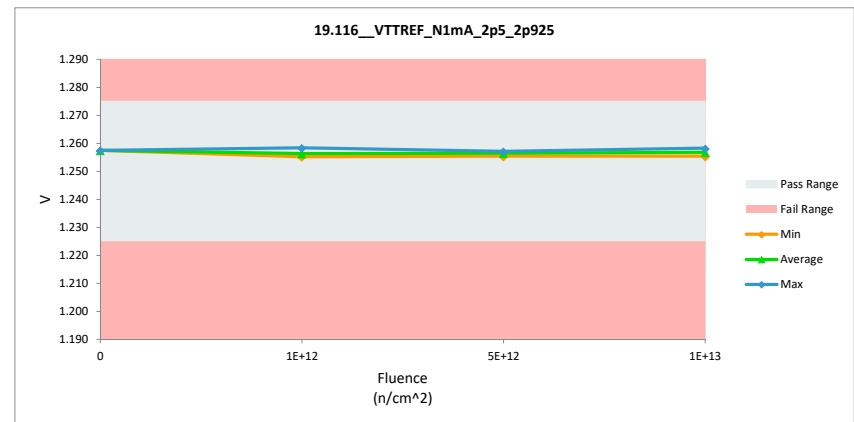
19.116_VTTREF_N1mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.258	1.258	0.000
	Average	1.257	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.116_VTTREF_N1mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

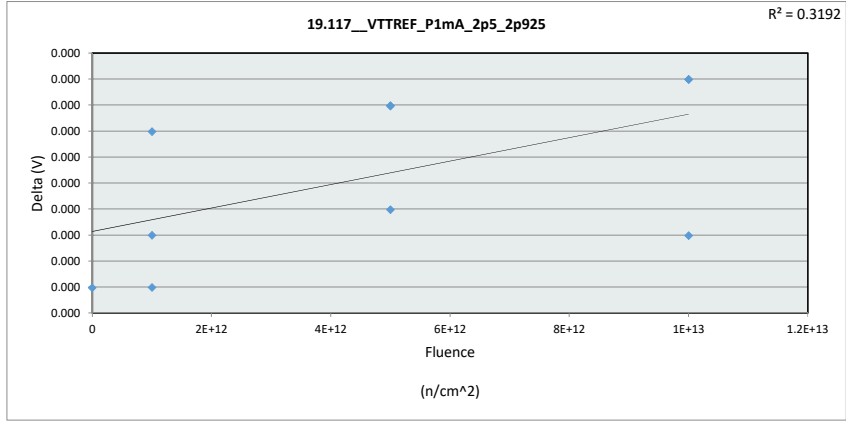
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

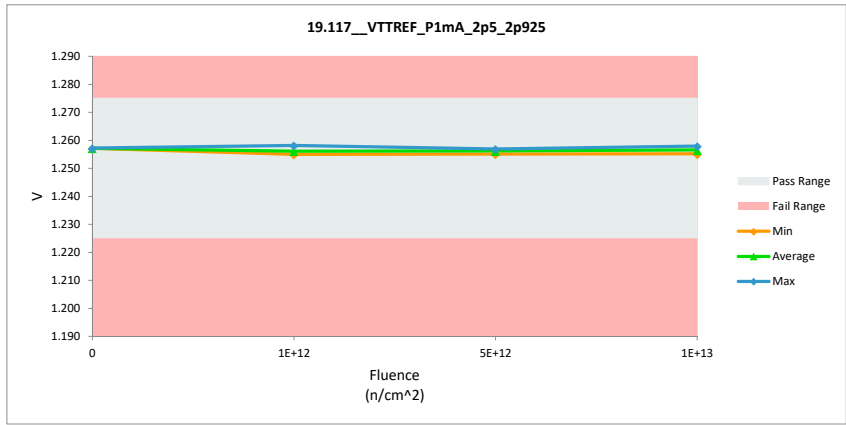
19.117_VTTREF_P1mA_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.275	1.275
Min Limit	1.225	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.256	1.256	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.256	1.257	0.000
Max		1.258	1.258	0.000
Average		1.256	1.256	0.000
Min		1.255	1.255	0.000
Std Dev		0.001	0.001	0.000



19.117_VTTREF_P1mA_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	1.275	V
Min Limit	1.225	V

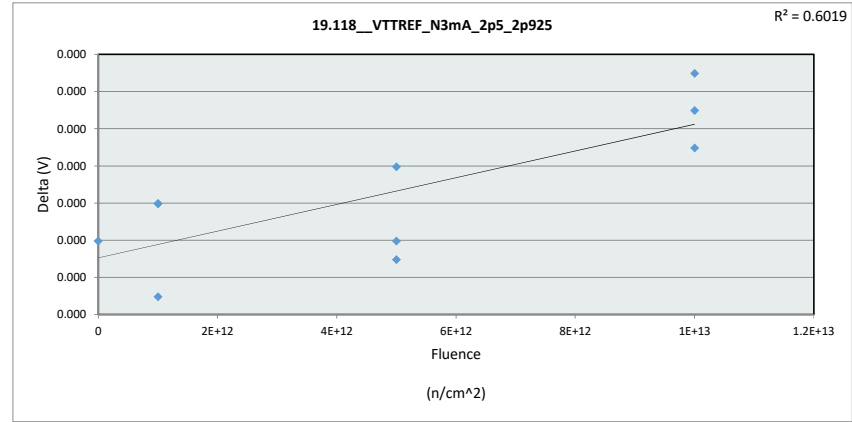
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.257
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

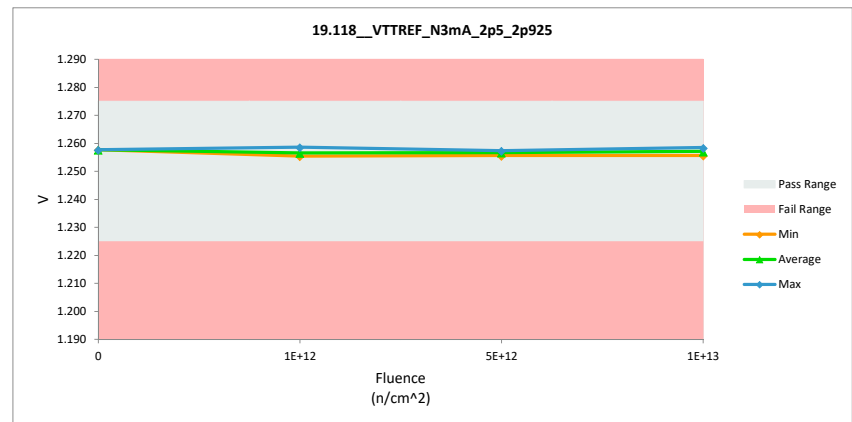
19.118_VTTREF_N3mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	1.275
Min Limit	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.258	1.258	0.000
1E+12	2	1.256	1.256	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.259	1.259	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.256	1.256	0.000
5E+12	7	1.257	1.257	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.256	1.256	0.000
1E+13	10	1.257	1.257	0.000
	Max	1.259	1.259	0.000
	Average	1.257	1.257	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.118_VTTREF_N3mA_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.275
Min Limit	1.225

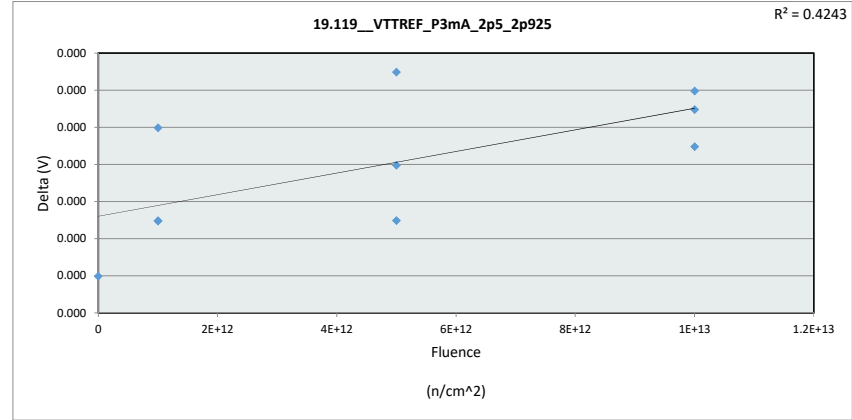
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.258	1.255	1.256	1.256
Average	1.258	1.257	1.257	1.257
Max	1.258	1.259	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

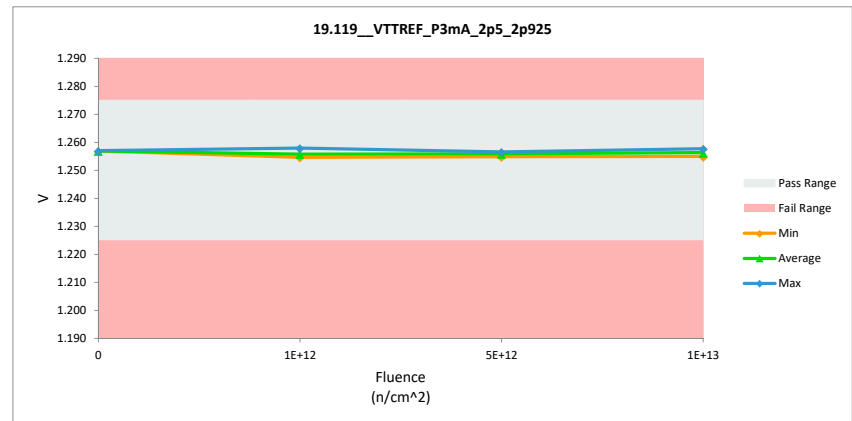
19.119_VTTREF_P3mA_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.275	1.275
Min Limit	1.225	1.225

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.257	1.257	0.000
1E+12	2	1.255	1.255	0.000
1E+12	3	1.255	1.255	0.000
1E+12	4	1.258	1.258	0.000
5E+12	5	1.257	1.257	0.000
5E+12	6	1.255	1.255	0.000
5E+12	7	1.256	1.256	0.000
1E+13	8	1.258	1.258	0.000
1E+13	9	1.255	1.255	0.000
1E+13	10	1.256	1.256	0.000
	Max	1.258	1.258	0.000
	Average	1.256	1.256	0.000
	Min	1.255	1.255	0.000
	Std Dev	0.001	0.001	0.000



19.119_VTTREF_P3mA_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	1.275	V
Min Limit	1.225	V

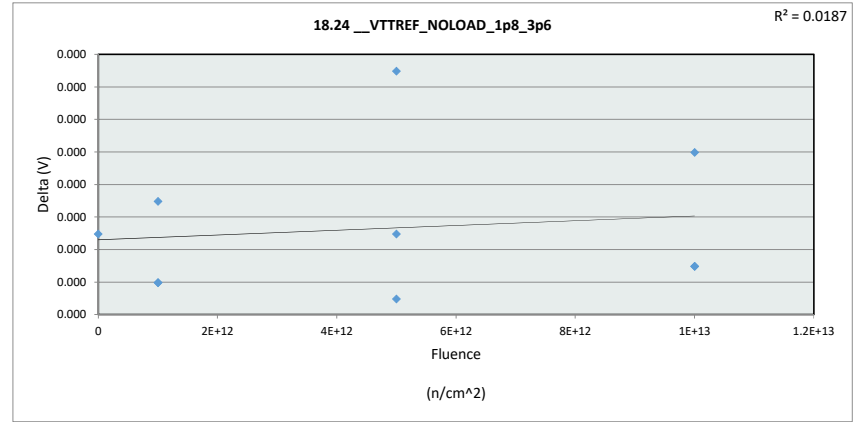
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	1.225	1.225	1.225	1.225
Min	1.257	1.255	1.255	1.255
Average	1.257	1.256	1.256	1.256
Max	1.257	1.258	1.257	1.258
UL	1.275	1.275	1.275	1.275



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

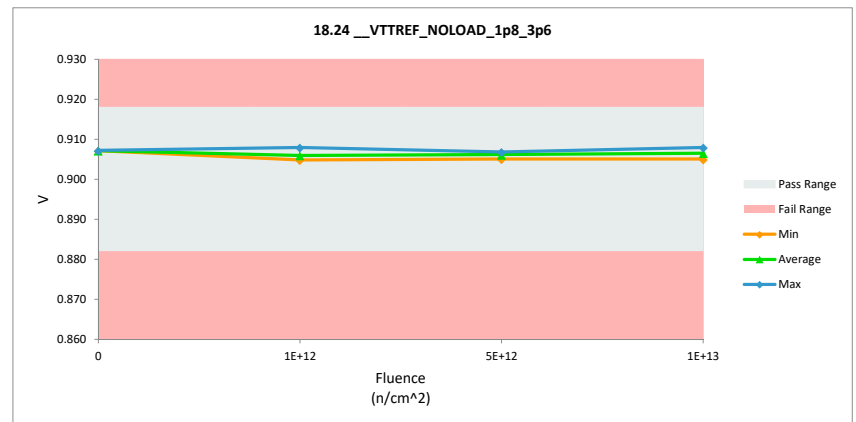
18.24_VTTREF_NOLOAD_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



18.24_VTTREF_NOLOAD_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

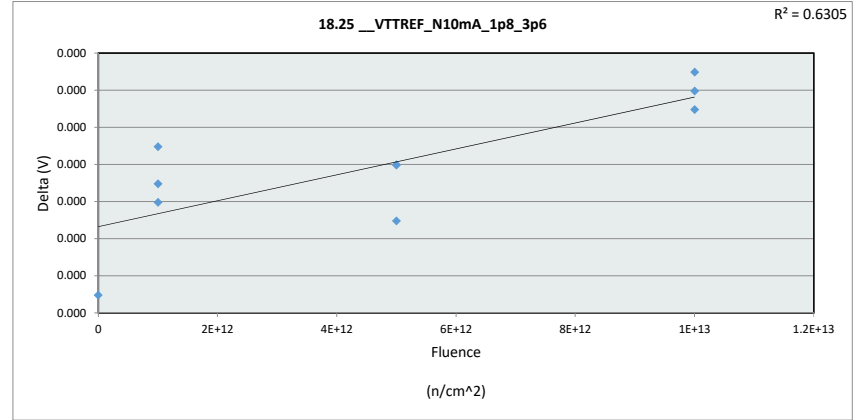
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.907	0.907	0.908
UL	0.918	0.918	0.918	0.918



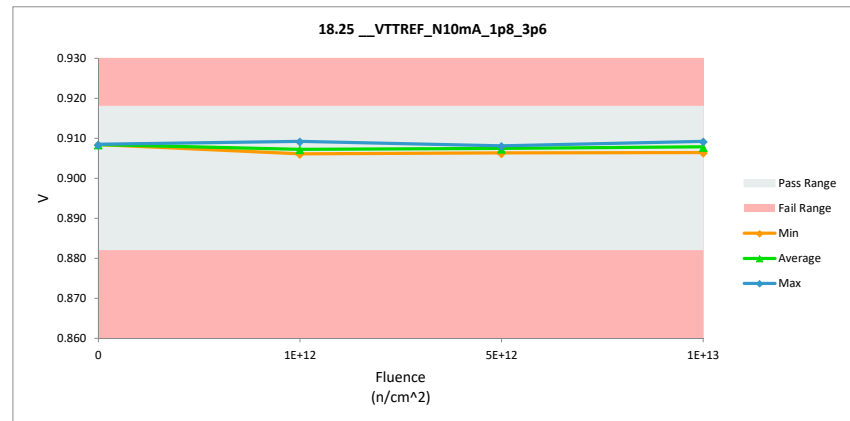
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

18.25_VTTREF_N10mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.909	0.908	0.000
1E+12	2	0.906	0.906	0.000
1E+12	3	0.906	0.906	0.000
1E+12	4	0.909	0.909	0.000
5E+12	5	0.908	0.908	0.000
5E+12	6	0.906	0.906	0.000
5E+12	7	0.908	0.908	0.000
1E+13	8	0.909	0.909	0.000
1E+13	9	0.906	0.906	0.000
1E+13	10	0.908	0.908	0.000
	Max	0.909	0.909	0.000
	Average	0.908	0.908	0.000
	Min	0.906	0.906	0.000
	Std Dev	0.001	0.001	0.000



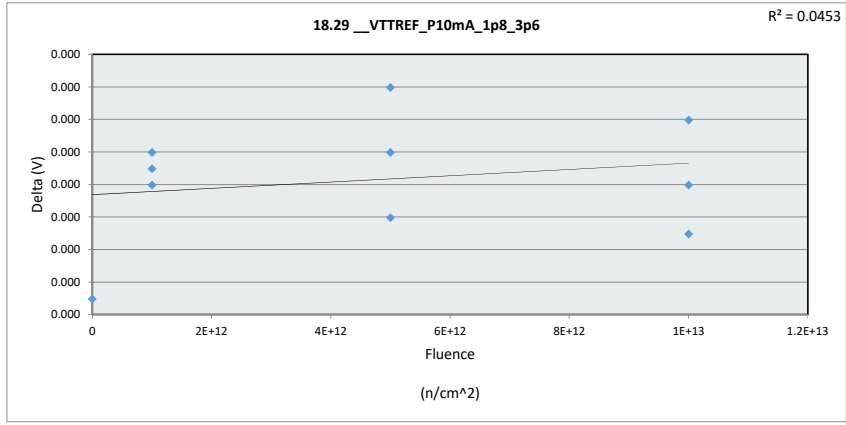
18.25_VTTREF_N10mA_1p8_3p6				
Test Site				
Tester				
Test Number				
Max Limit	0.918	V		
Min Limit	0.882	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.908	0.906	0.906	0.906
Average	0.908	0.907	0.907	0.908
Max	0.908	0.909	0.908	0.909
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

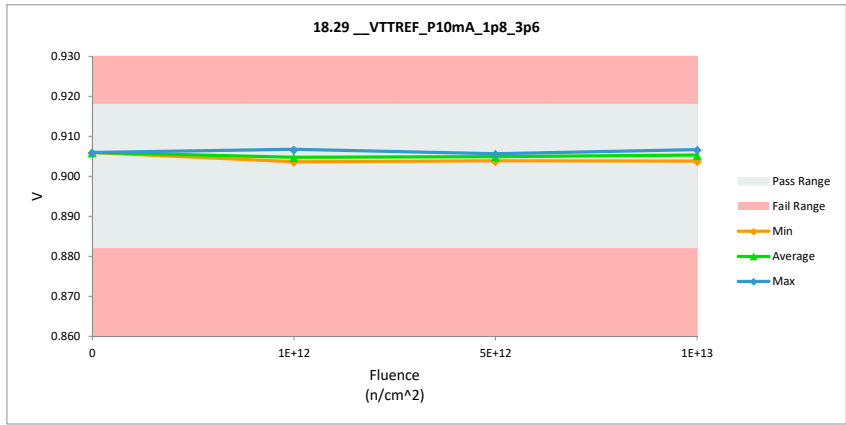
18.29_VTTREF_P10mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.918 0.918
Min Limit	0.882 0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.906	0.906	0.000
1E+12	2	0.904	0.904	0.000
1E+12	3	0.904	0.904	0.000
1E+12	4	0.907	0.907	0.000
5E+12	5	0.906	0.906	0.000
5E+12	6	0.904	0.904	0.000
5E+12	7	0.905	0.905	0.000
1E+13	8	0.907	0.907	0.000
1E+13	9	0.904	0.904	0.000
1E+13	10	0.905	0.905	0.000
Max		0.907	0.907	0.000
Average		0.905	0.905	0.000
Min		0.904	0.904	0.000
Std Dev		0.001	0.001	0.000



18.29_VTTREF_P10mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.918 V
Min Limit	0.882 V

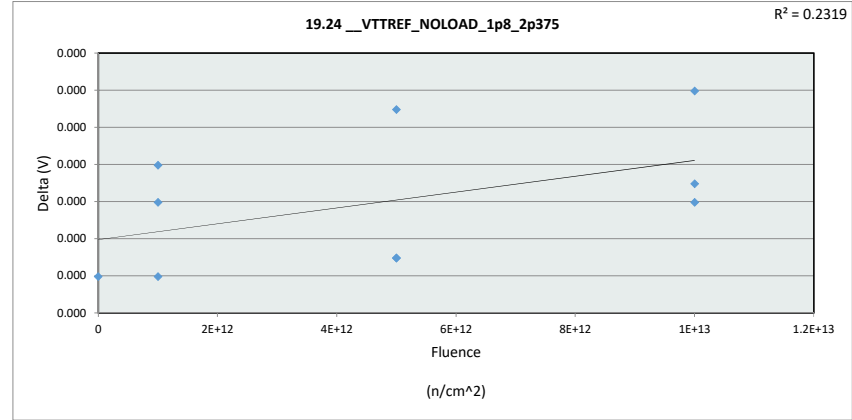
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.906	0.904	0.904	0.904
Average	0.906	0.905	0.905	0.905
Max	0.906	0.907	0.906	0.907
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

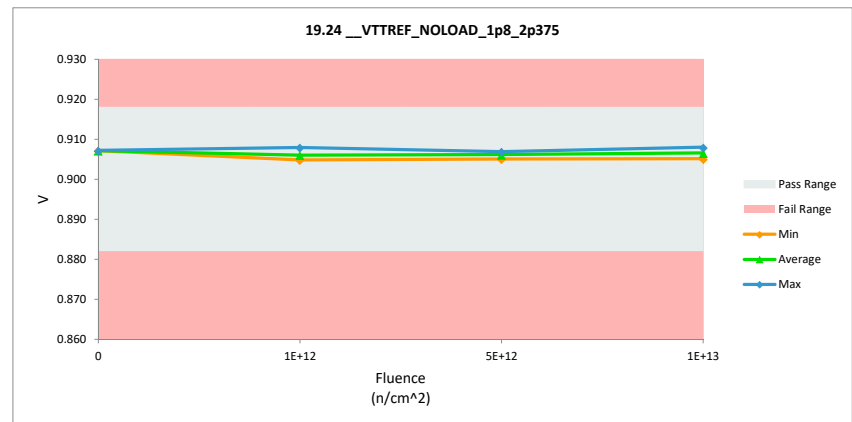
19.24_VTTREF_NOLOAD_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.907	0.000
Max		0.908	0.908	0.000
Average		0.906	0.906	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.24_VTTREF_NOLOAD_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

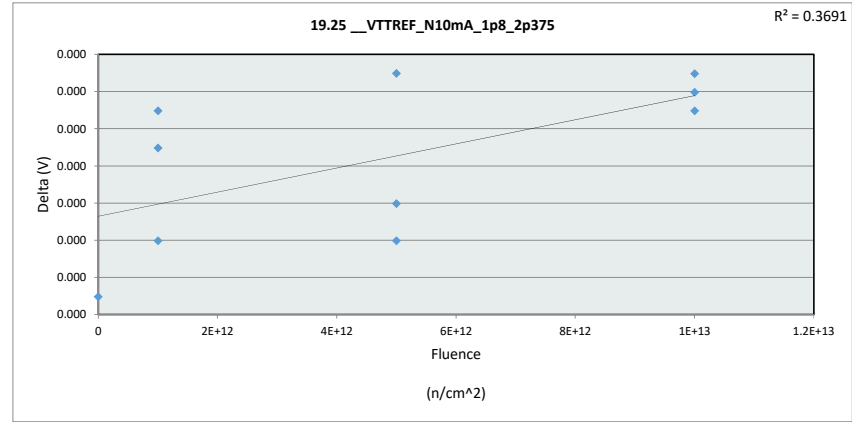
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

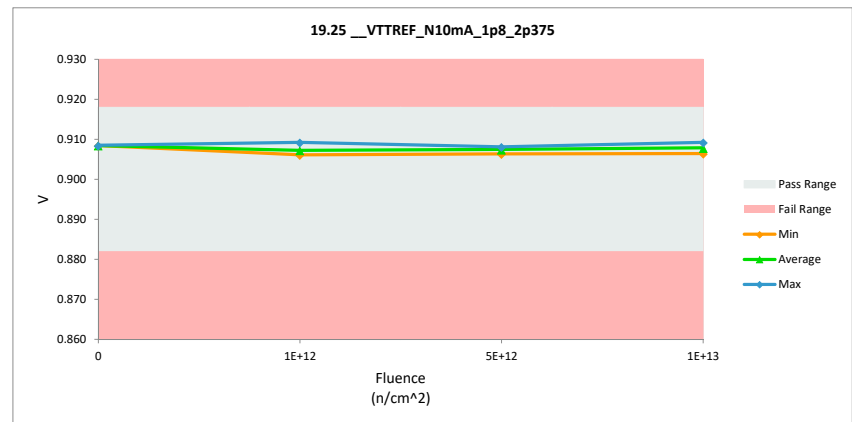
19.25_VTTREF_N10mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.918 0.918
Min Limit	0.882 0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.909	0.908	0.000
1E+12	2	0.906	0.907	0.000
1E+12	3	0.906	0.906	0.000
1E+12	4	0.909	0.909	0.000
5E+12	5	0.908	0.908	0.000
5E+12	6	0.906	0.906	0.000
5E+12	7	0.908	0.908	0.000
1E+13	8	0.909	0.909	0.000
1E+13	9	0.906	0.906	0.000
1E+13	10	0.908	0.908	0.000
Max		0.909	0.909	0.000
Average		0.908	0.908	0.000
Min		0.906	0.906	0.000
Std Dev		0.001	0.001	0.000



19.25_VTTREF_N10mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.918 V
Min Limit	0.882 V

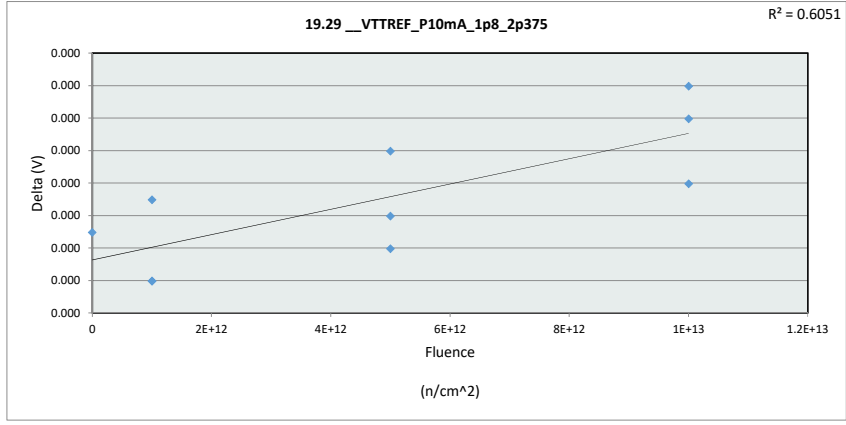
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.908	0.906	0.906	0.906
Average	0.908	0.907	0.907	0.908
Max	0.908	0.909	0.908	0.909
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

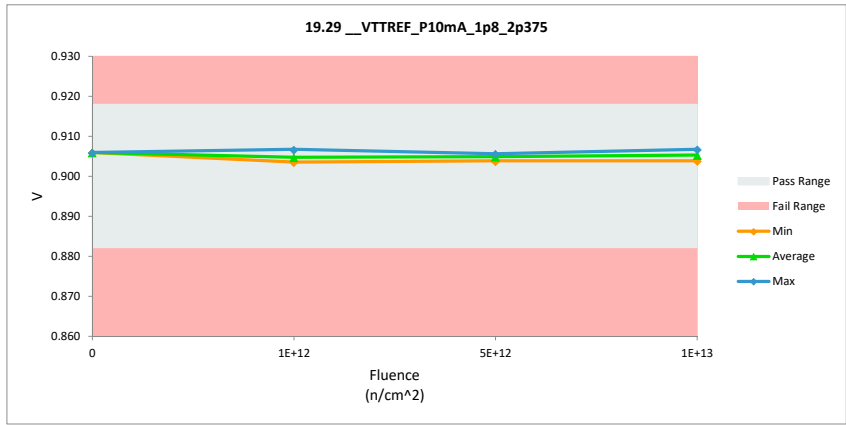
19.29_VTTREF_P10mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.918 0.918
Min Limit	0.882 0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.906	0.906	0.000
1E+12	2	0.904	0.904	0.000
1E+12	3	0.904	0.904	0.000
1E+12	4	0.907	0.907	0.000
5E+12	5	0.906	0.906	0.000
5E+12	6	0.904	0.904	0.000
5E+12	7	0.905	0.905	0.000
1E+13	8	0.907	0.907	0.000
1E+13	9	0.904	0.904	0.000
1E+13	10	0.905	0.905	0.000
	Max	0.907	0.907	0.000
	Average	0.905	0.905	0.000
	Min	0.904	0.904	0.000
	Std Dev	0.001	0.001	0.000



19.29_VTTREF_P10mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.918 V
Min Limit	0.882 V

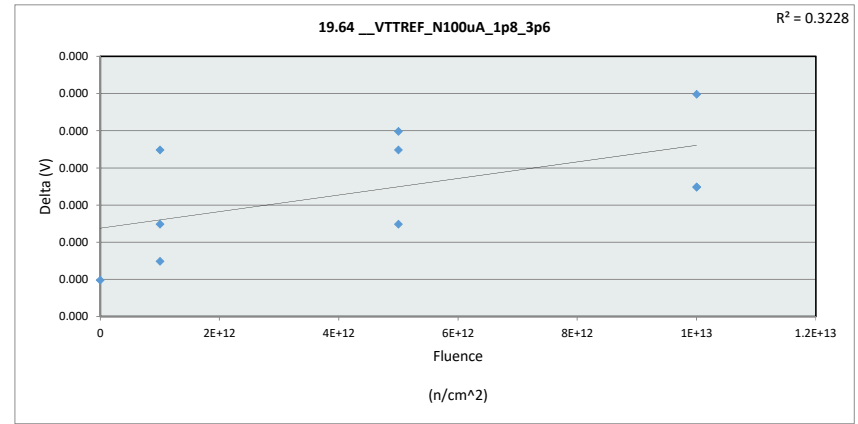
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.906	0.904	0.904	0.904
Average	0.906	0.905	0.905	0.905
Max	0.906	0.907	0.906	0.907
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

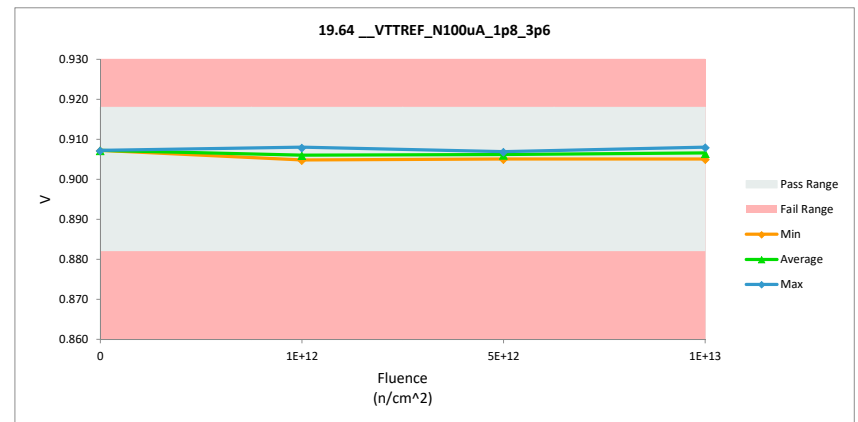
19.64_VTTREF_N100uA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.918 0.918
Min Limit	0.882 0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.64_VTTREF_N100uA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.918 V
Min Limit	0.882 V

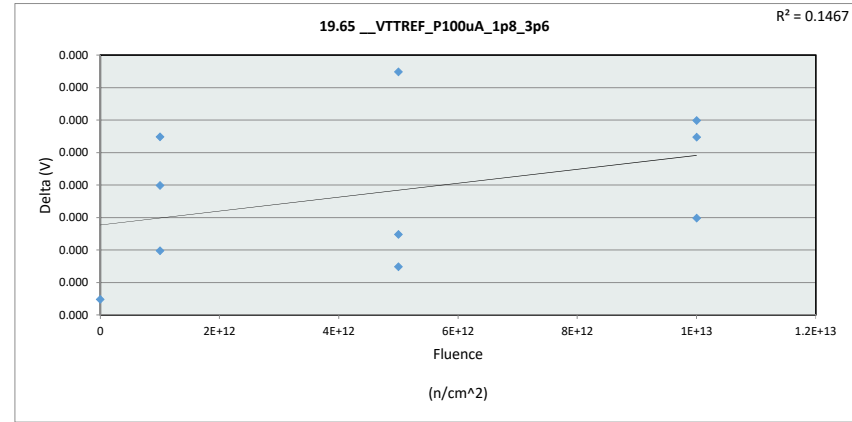
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

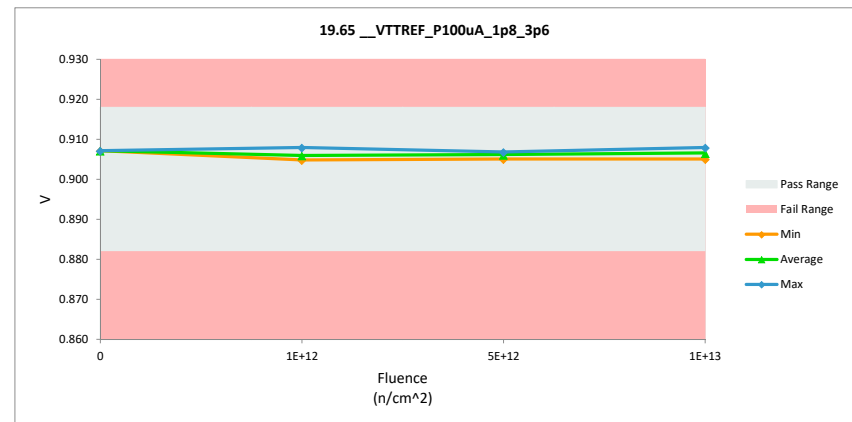
19.65_VTTREF_P100uA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.918
Min Limit	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.907	0.000
Max		0.908	0.908	0.000
Average		0.906	0.906	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.65_VTTREF_P100uA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.918
Min Limit	0.882

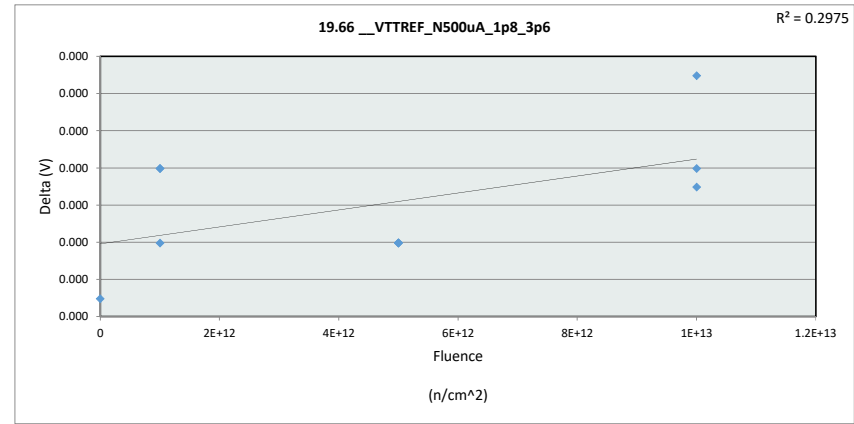
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.906	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

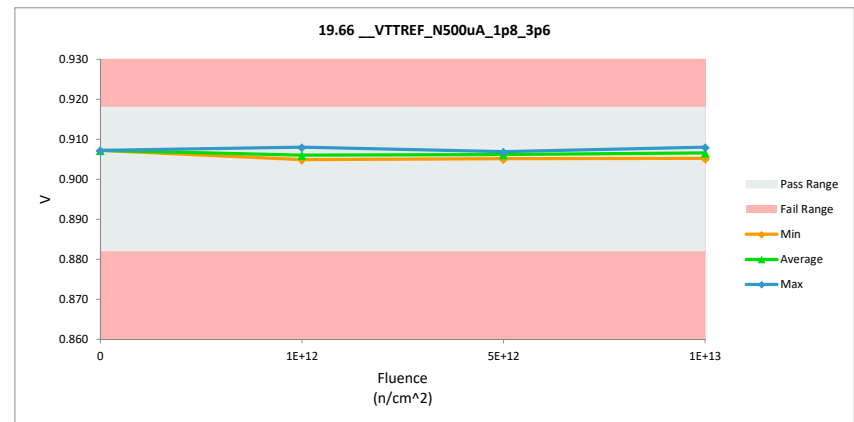
19.66_VTTREF_N500uA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.918 0.918
Min Limit	0.882 0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
Max		0.908	0.908	0.000
Average		0.906	0.906	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.66_VTTREF_N500uA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.918 V
Min Limit	0.882 V

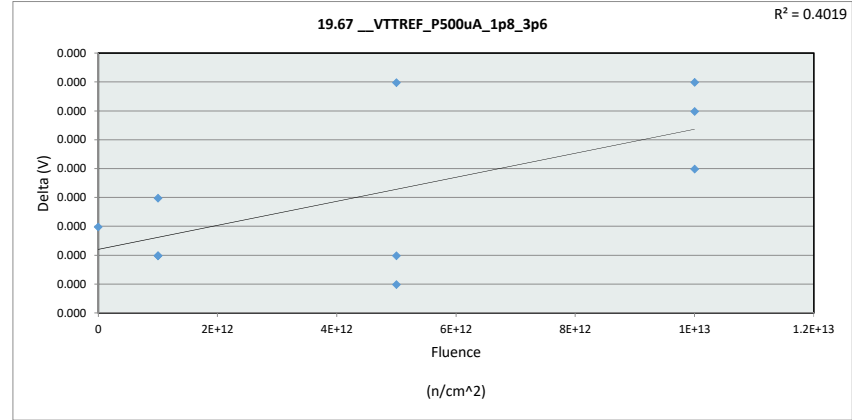
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.907	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

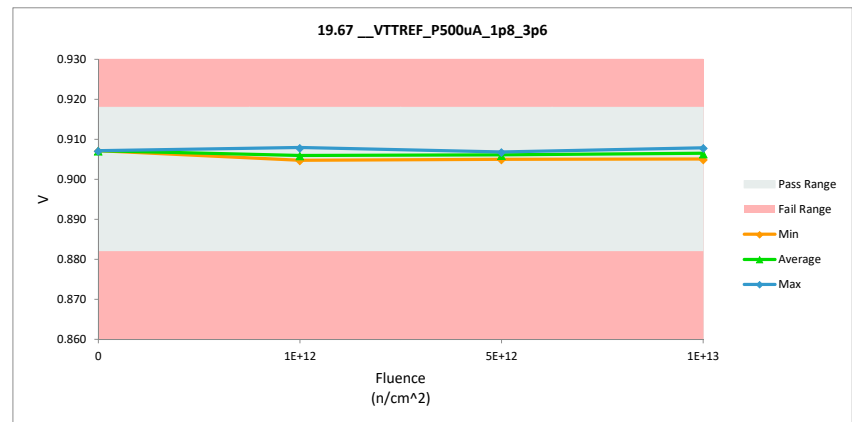
19.67 __ VTTREF_P500uA_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.906	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.906	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.67 __ VTTREF_P500uA_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

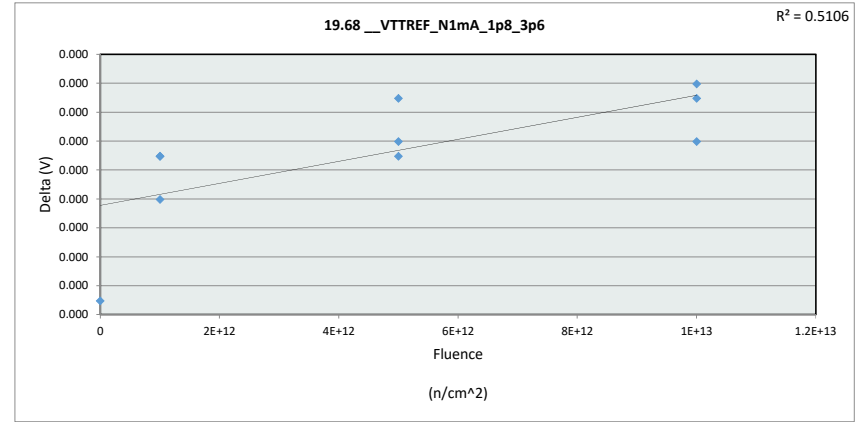
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.906
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

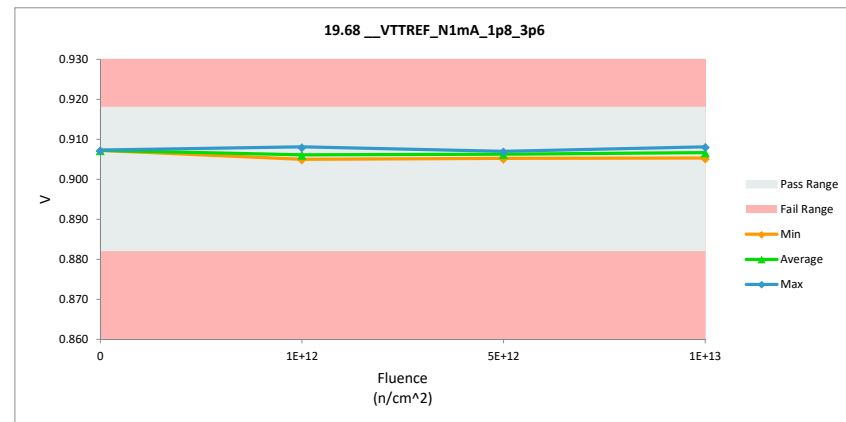
19.68_VTTREF_N1mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
Max		0.908	0.908	0.000
Average		0.906	0.906	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.68_VTTREF_N1mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

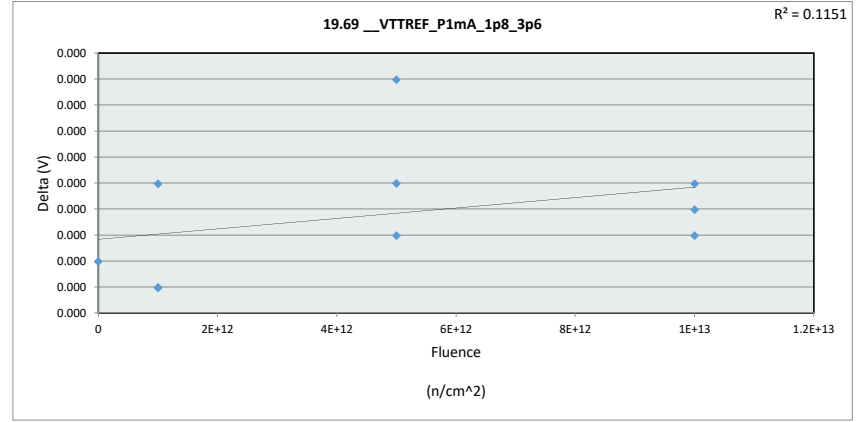
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

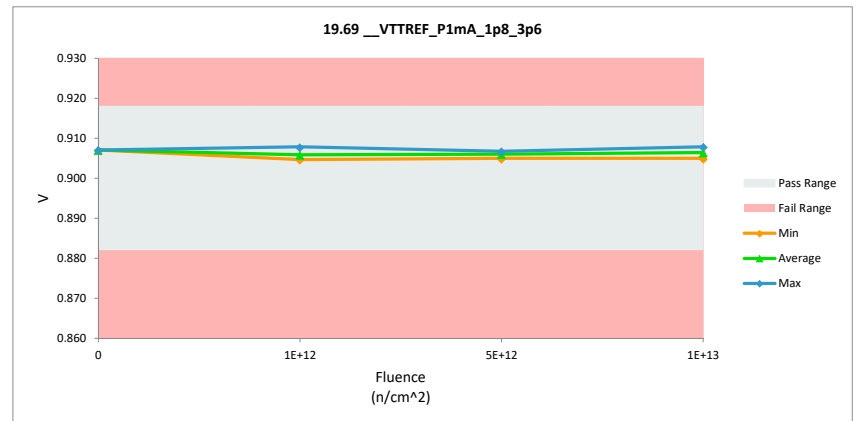
19.69 __ VTTREF_P1mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.906	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.906	0.000
Max		0.908	0.908	0.000
Average		0.906	0.906	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.69 __ VTTREF_P1mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

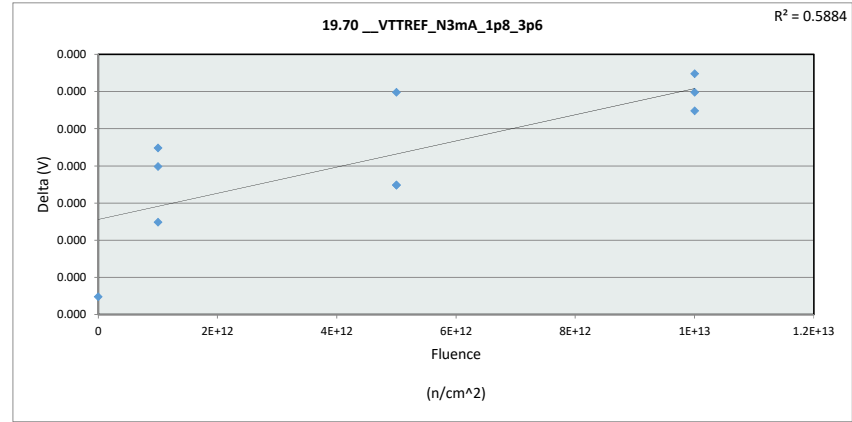
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.906
Max	0.907	0.907	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

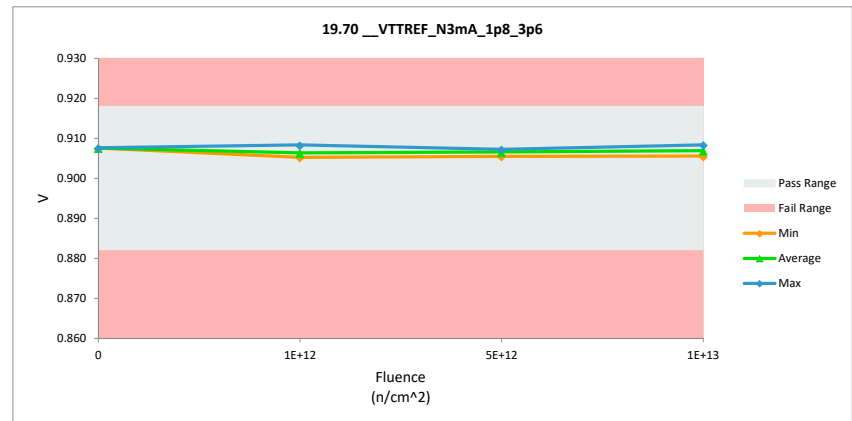
19.70_VTTREF_N3mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.918 0.918
Min Limit	0.882 0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.908	0.908	0.000
1E+12	2	0.906	0.906	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.906	0.000
1E+13	10	0.907	0.907	0.000
Max		0.908	0.908	0.000
Average		0.907	0.907	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.70_VTTREF_N3mA_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.918 V
Min Limit	0.882 V

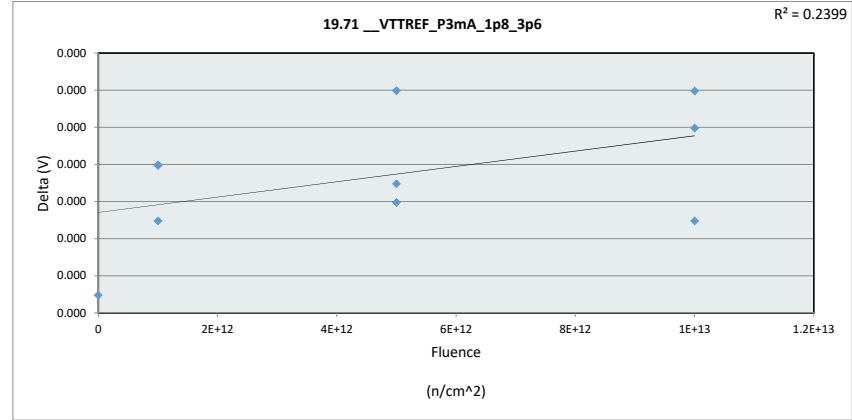
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.908	0.905	0.905	0.906
Average	0.908	0.906	0.907	0.907
Max	0.908	0.906	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

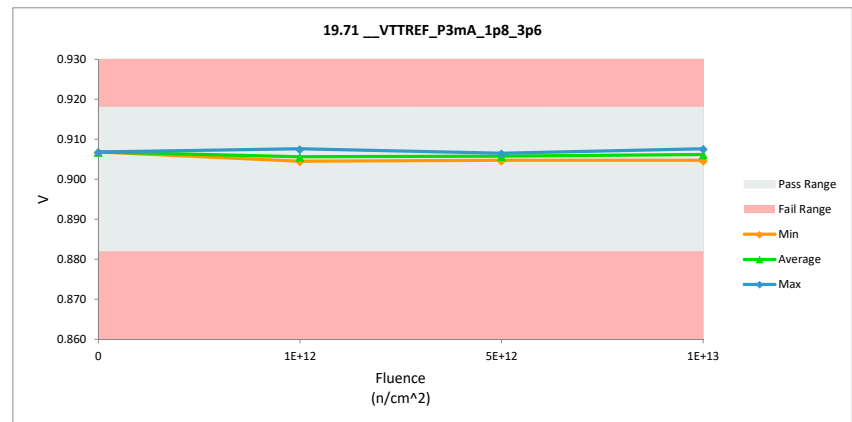
19.71_VTTREF_P3mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.906	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.906	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.71_VTTREF_P3mA_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

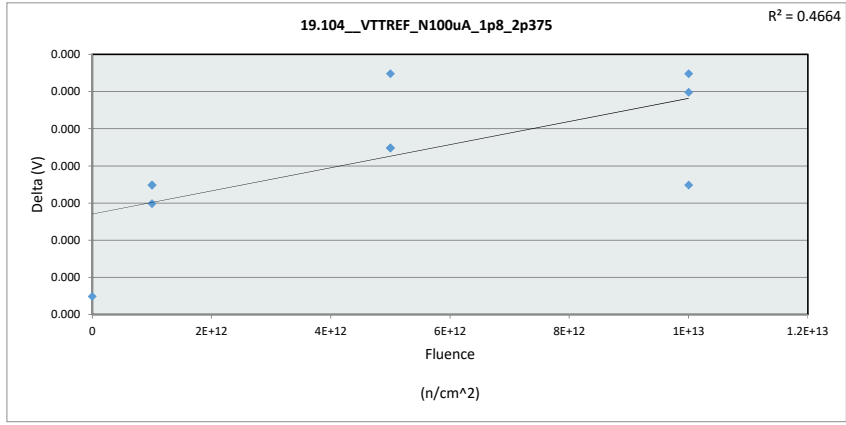
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.906
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

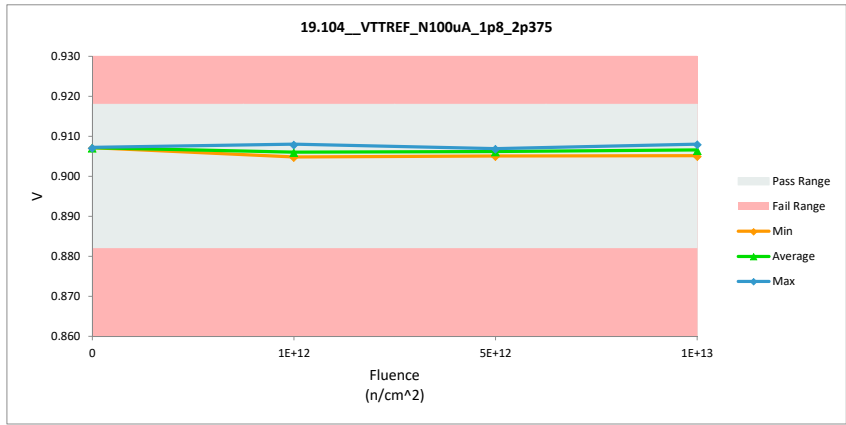
19.104_VTTREF_N100uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.104_VTTREF_N100uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

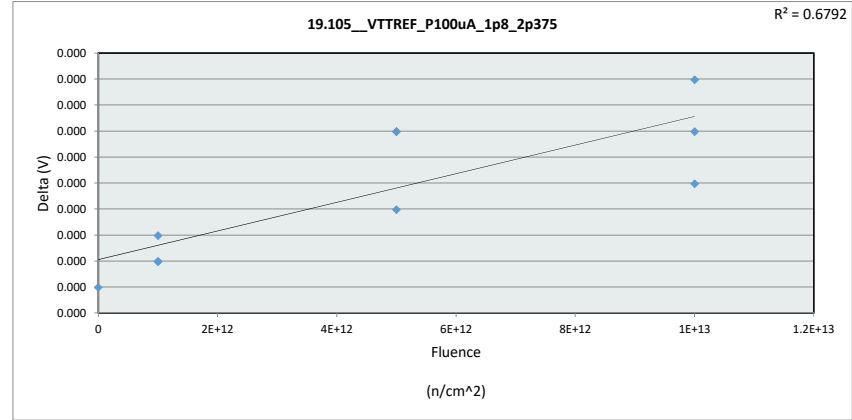
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

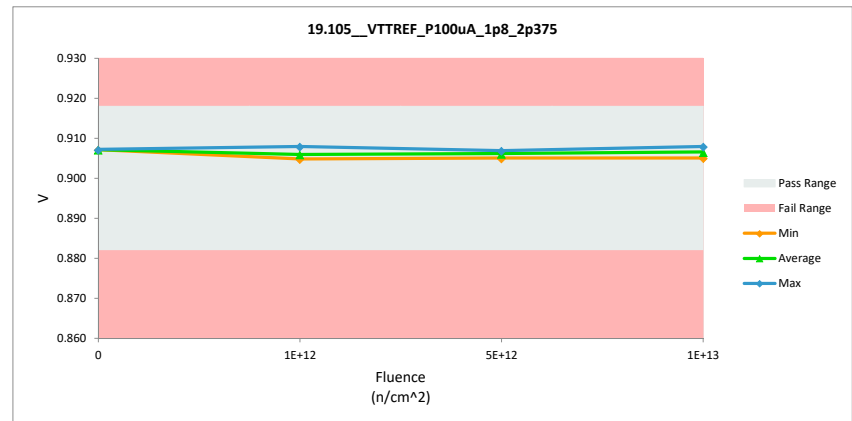
19.105_VTTREF_P100uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.907	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.105_VTTREF_P100uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

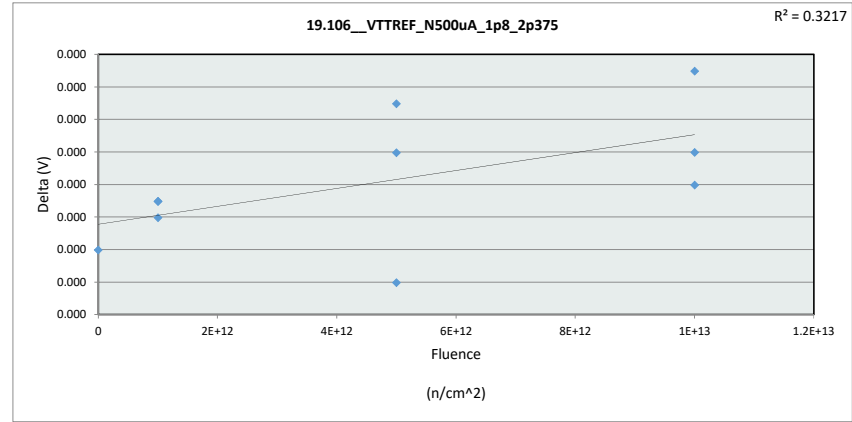
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

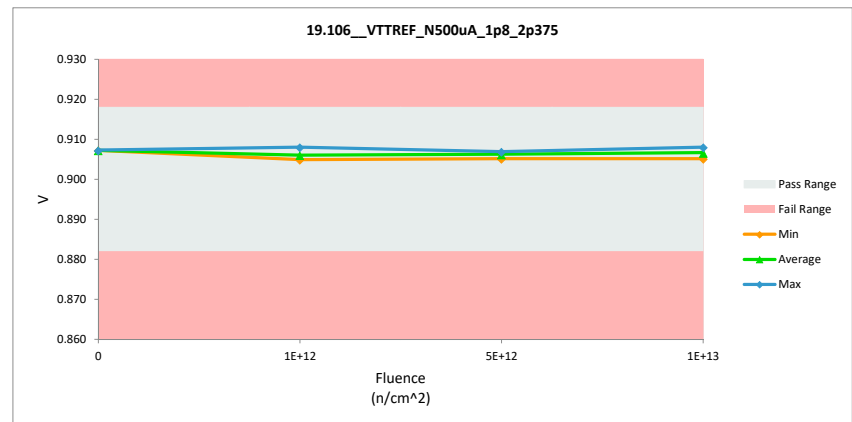
19.106_VTTREF_N500uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.106_VTTREF_N500uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

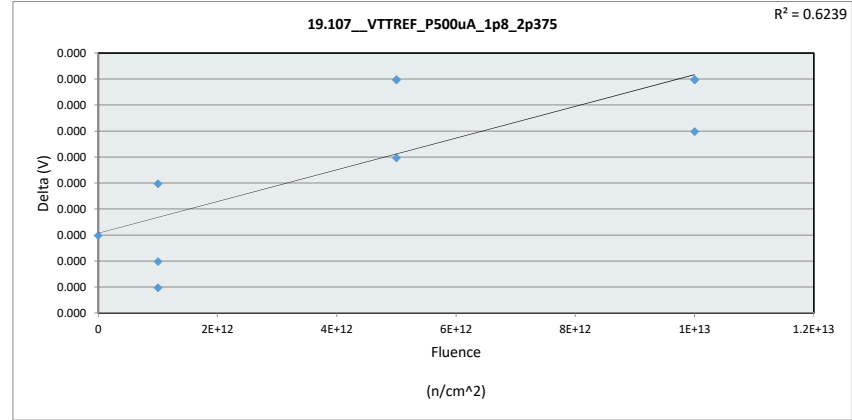
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

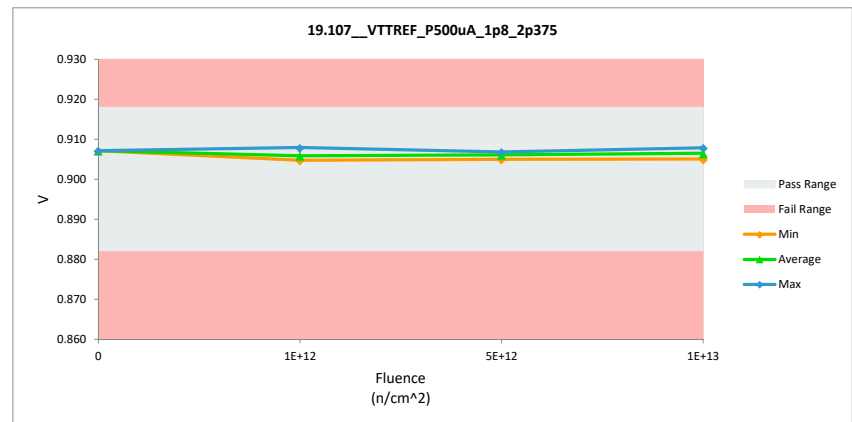
19.107_VTTREF_P500uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.906	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.906	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.107_VTTREF_P500uA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

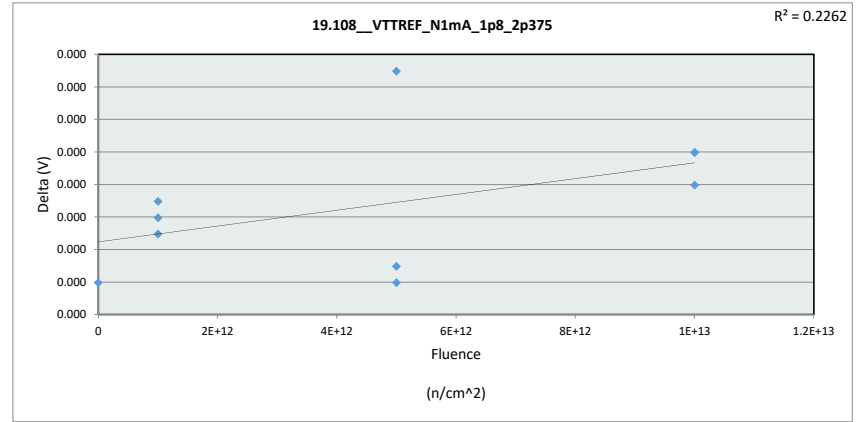
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.906
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

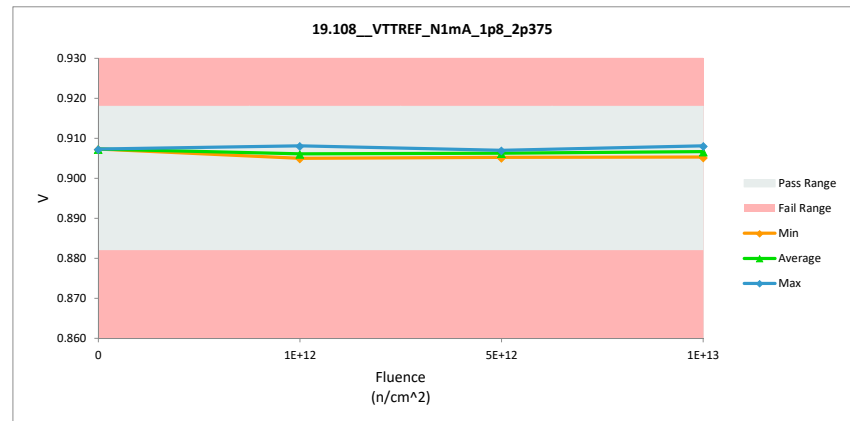
19.108_VTTREF_N1mA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.907	0.907	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.108_VTTREF_N1mA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

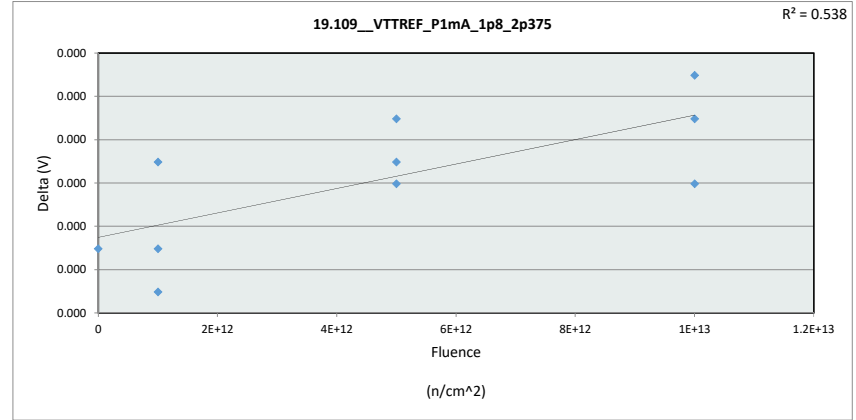
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.907
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

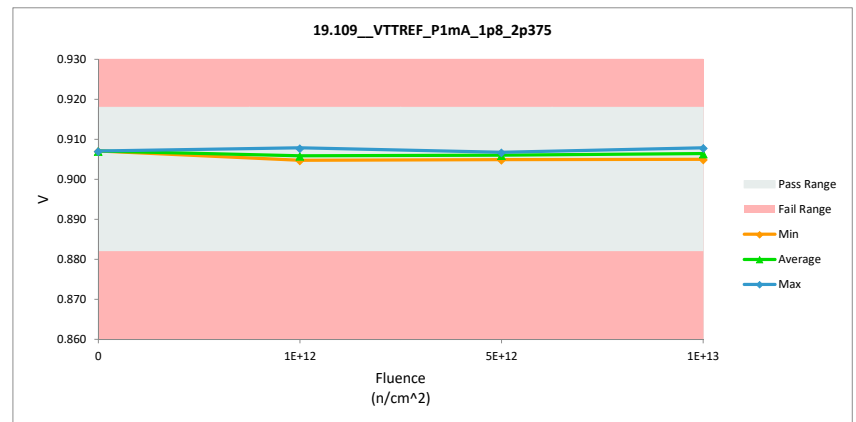
19.109_VTTREF_P1mA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.906	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.906	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.109_VTTREF_P1mA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

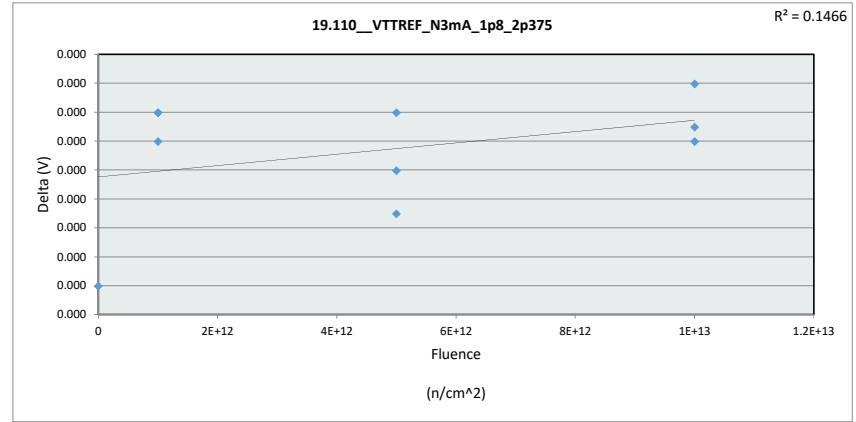
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.906
Max	0.907	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

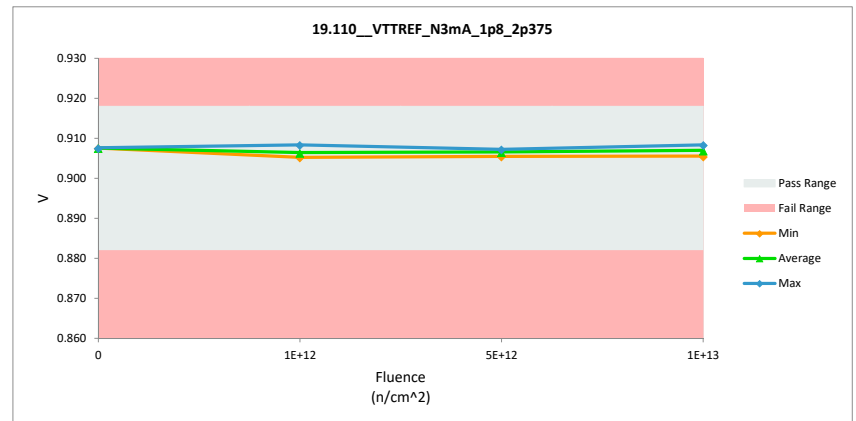
19.110_VTTREF_N3mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.918
Min Limit	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.908	0.908	0.000
1E+12	2	0.906	0.906	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.907	0.907	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.906	0.000
1E+13	10	0.907	0.907	0.000
Max		0.908	0.908	0.000
Average		0.907	0.907	0.000
Min		0.905	0.905	0.000
Std Dev		0.001	0.001	0.000



19.110_VTTREF_N3mA_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.918
Min Limit	0.882

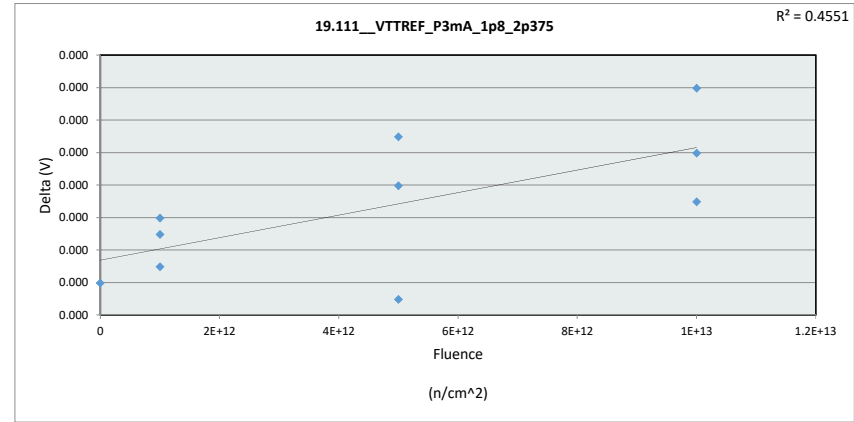
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.908	0.905	0.905	0.906
Average	0.908	0.906	0.907	0.907
Max	0.908	0.908	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

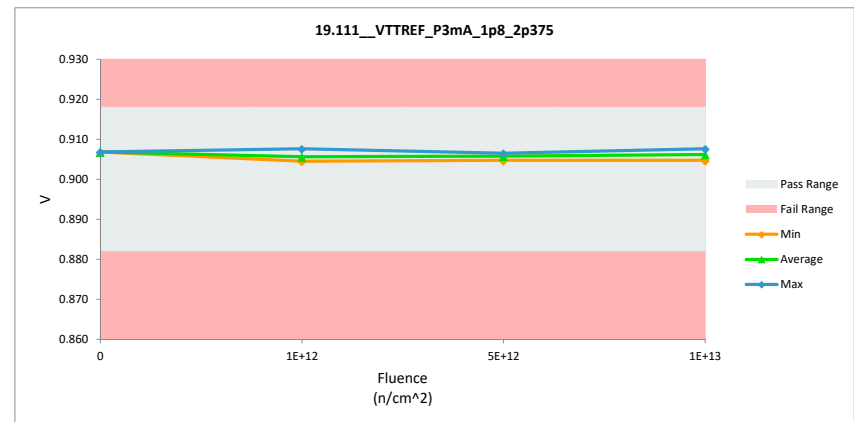
19.111_VTTREF_P3mA_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.918	0.918
Min Limit	0.882	0.882

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.907	0.907	0.000
1E+12	2	0.905	0.905	0.000
1E+12	3	0.905	0.905	0.000
1E+12	4	0.908	0.908	0.000
5E+12	5	0.907	0.907	0.000
5E+12	6	0.905	0.905	0.000
5E+12	7	0.906	0.906	0.000
1E+13	8	0.908	0.908	0.000
1E+13	9	0.905	0.905	0.000
1E+13	10	0.906	0.906	0.000
	Max	0.908	0.908	0.000
	Average	0.906	0.906	0.000
	Min	0.905	0.905	0.000
	Std Dev	0.001	0.001	0.000



19.111_VTTREF_P3mA_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.918	V
Min Limit	0.882	V

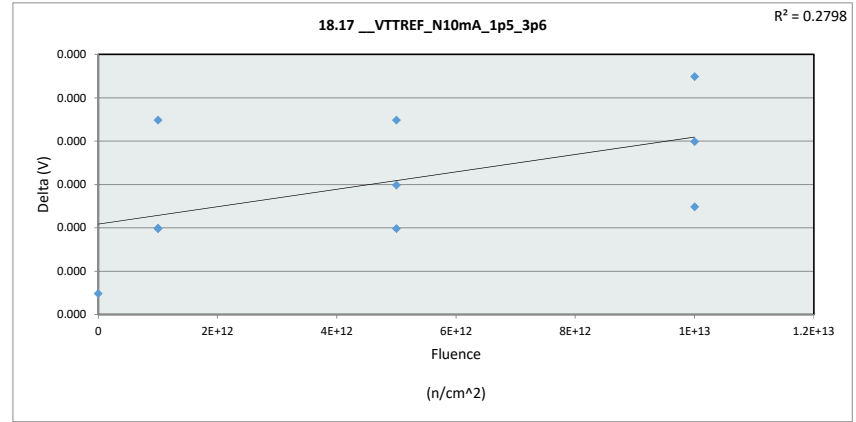
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.882	0.882	0.882	0.882
Min	0.907	0.905	0.905	0.905
Average	0.907	0.906	0.906	0.906
Max	0.907	0.907	0.907	0.908
UL	0.918	0.918	0.918	0.918



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

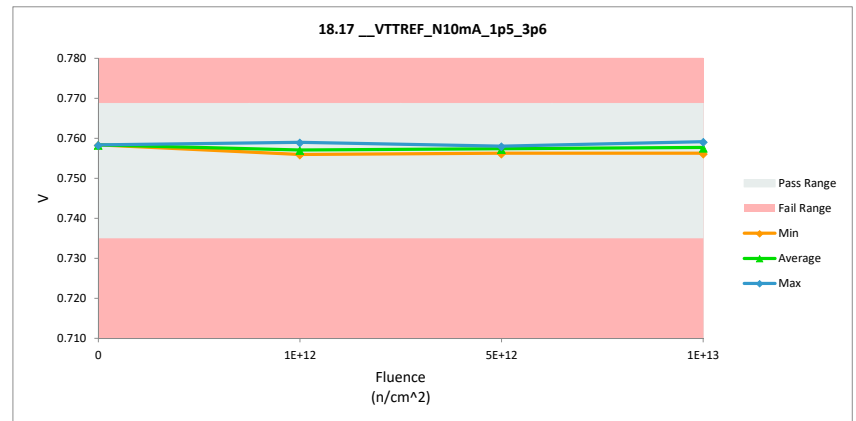
18.17_VTTREF_N10mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.76875
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.758	0.758	0.000
1E+12	2	0.756	0.756	0.000
1E+12	3	0.756	0.756	0.000
1E+12	4	0.759	0.759	0.000
5E+12	5	0.758	0.758	0.000
5E+12	6	0.756	0.756	0.000
5E+12	7	0.758	0.758	0.000
1E+13	8	0.759	0.759	0.000
1E+13	9	0.756	0.756	0.000
1E+13	10	0.758	0.758	0.000
	Max	0.759	0.759	0.000
	Average	0.757	0.757	0.000
	Min	0.756	0.756	0.000
	Std Dev	0.001	0.001	0.000



18.17_VTTREF_N10mA_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.76875
Min Limit	0.735

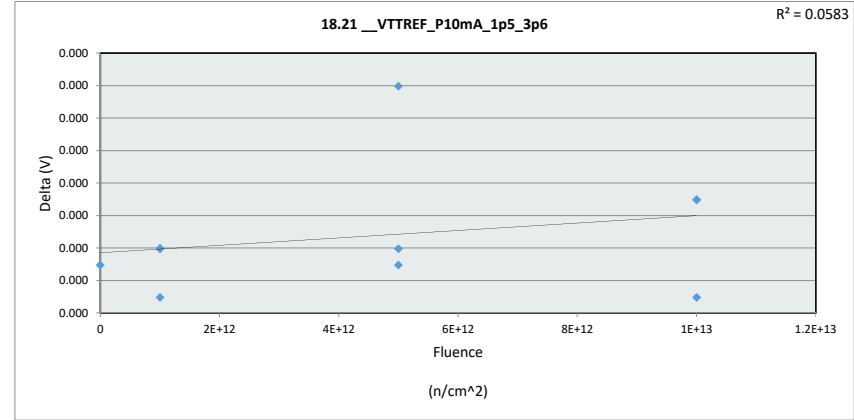
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.758	0.756	0.756	0.756
Average	0.758	0.757	0.757	0.758
Max	0.758	0.759	0.758	0.759
UL	0.769	0.769	0.769	0.769



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

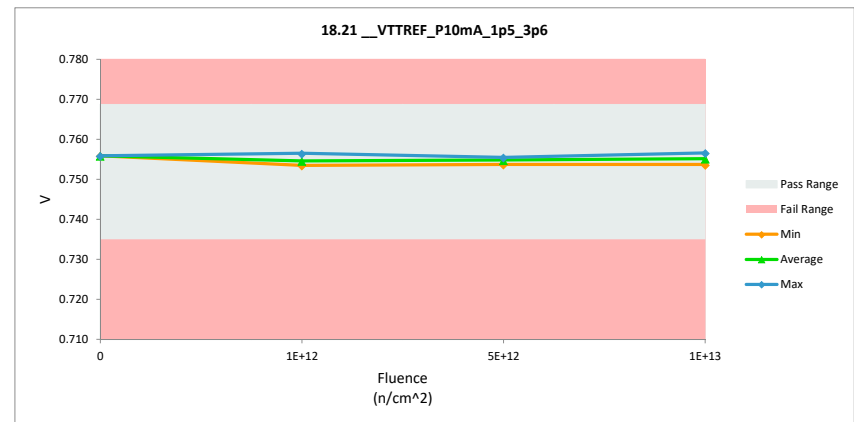
18.21_VTTREF_P10mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.76875	0.76875
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.756	0.756	0.000
1E+12	2	0.754	0.754	0.000
1E+12	3	0.753	0.753	0.000
1E+12	4	0.757	0.756	0.000
5E+12	5	0.756	0.756	0.000
5E+12	6	0.754	0.754	0.000
5E+12	7	0.755	0.755	0.000
1E+13	8	0.757	0.757	0.000
1E+13	9	0.754	0.754	0.000
1E+13	10	0.755	0.755	0.000
	Max	0.757	0.757	0.000
	Average	0.755	0.755	0.000
	Min	0.753	0.753	0.000
	Std Dev	0.001	0.001	0.000



18.21_VTTREF_P10mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.76875	V
Min Limit	0.735	V

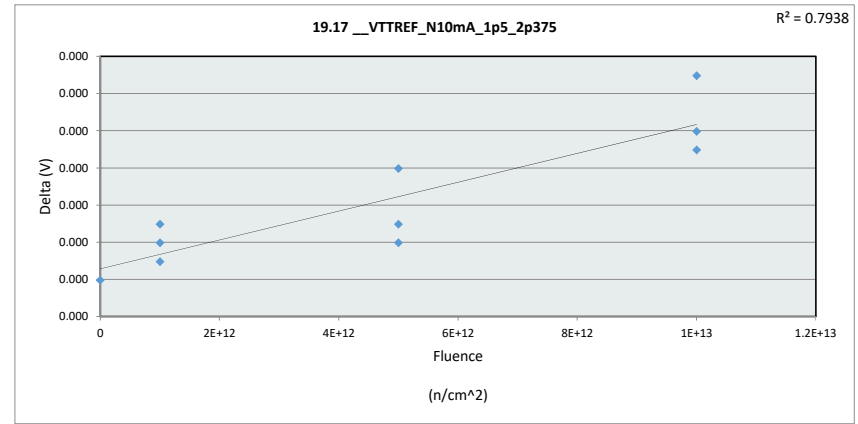
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.756	0.753	0.754	0.754
Average	0.756	0.755	0.755	0.755
Max	0.756	0.756	0.756	0.757
UL	0.769	0.769	0.769	0.769



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

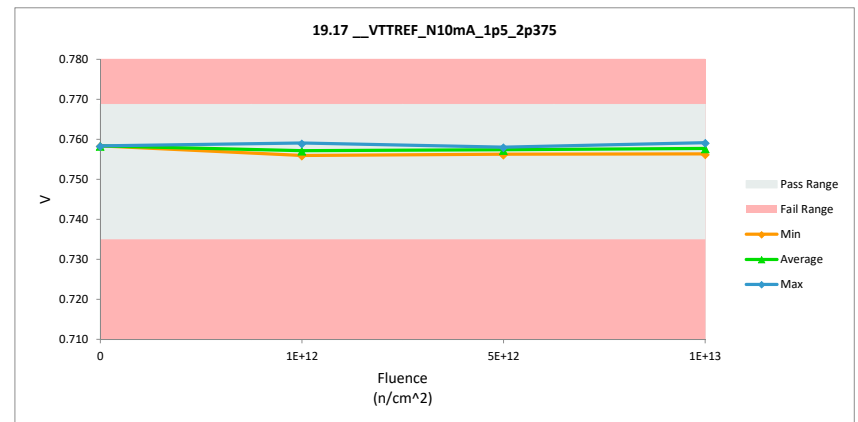
19.17_VTTREF_N10mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.76875
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.758	0.758	0.000
1E+12	2	0.756	0.756	0.000
1E+12	3	0.756	0.756	0.000
1E+12	4	0.759	0.759	0.000
5E+12	5	0.758	0.758	0.000
5E+12	6	0.756	0.756	0.000
5E+12	7	0.758	0.758	0.000
1E+13	8	0.759	0.759	0.000
1E+13	9	0.756	0.756	0.000
1E+13	10	0.758	0.758	0.000
Max		0.759	0.759	0.000
Average		0.757	0.757	0.000
Min		0.756	0.756	0.000
Std Dev		0.001	0.001	0.000



19.17_VTTREF_N10mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.76875
Min Limit	0.735

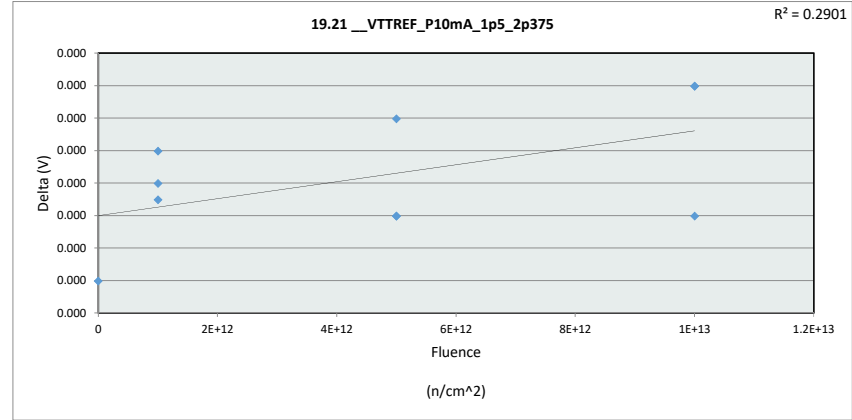
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.758	0.756	0.756	0.756
Average	0.758	0.757	0.757	0.758
Max	0.758	0.759	0.758	0.759
UL	0.769	0.769	0.769	0.769



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

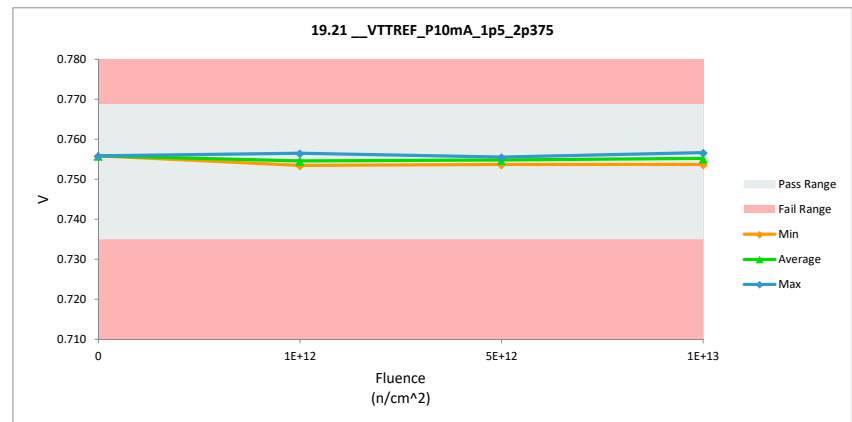
19.21_VTTREF_P10mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.76875	0.76875
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.756	0.756	0.000
1E+12	2	0.754	0.754	0.000
1E+12	3	0.754	0.754	0.000
1E+12	4	0.757	0.757	0.000
5E+12	5	0.756	0.756	0.000
5E+12	6	0.754	0.754	0.000
5E+12	7	0.755	0.755	0.000
1E+13	8	0.757	0.757	0.000
1E+13	9	0.754	0.754	0.000
1E+13	10	0.755	0.755	0.000
	Max	0.757	0.757	0.000
	Average	0.755	0.755	0.000
	Min	0.754	0.754	0.000
	Std Dev	0.001	0.001	0.000



19.21_VTTREF_P10mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.76875	V
Min Limit	0.735	V

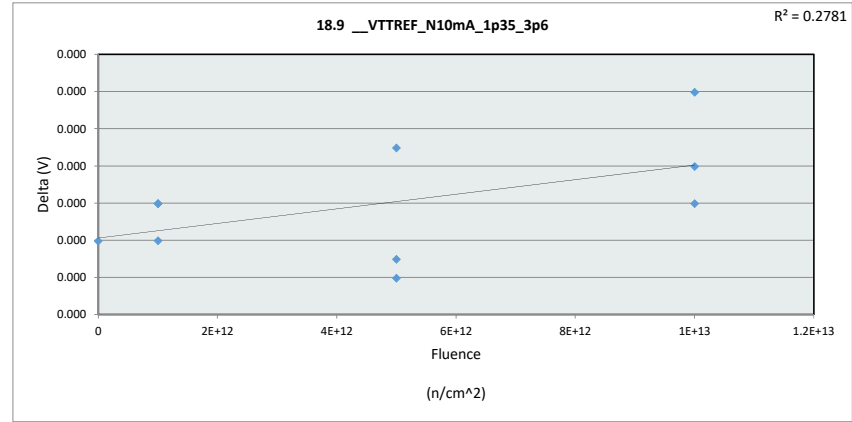
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.756	0.754	0.754	0.754
Average	0.756	0.755	0.755	0.755
Max	0.756	0.757	0.756	0.757
UL	0.769	0.769	0.769	0.769



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

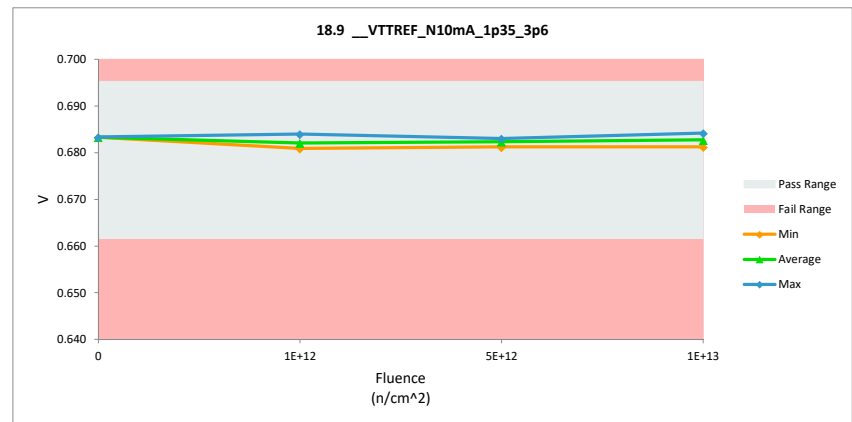
18.9 __VTTREF_N10mA_1p35_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.69525	0.69525
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.683	0.683	0.000
1E+12	2	0.681	0.681	0.000
1E+12	3	0.681	0.681	0.000
1E+12	4	0.684	0.684	0.000
5E+12	5	0.683	0.683	0.000
5E+12	6	0.681	0.681	0.000
5E+12	7	0.683	0.683	0.000
1E+13	8	0.684	0.684	0.000
1E+13	9	0.681	0.681	0.000
1E+13	10	0.683	0.683	0.000
	Max	0.684	0.684	0.000
	Average	0.682	0.682	0.000
	Min	0.681	0.681	0.000
	Std Dev	0.001	0.001	0.000



18.9 __VTTREF_N10mA_1p35_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.69525	V
Min Limit	0.6615	V

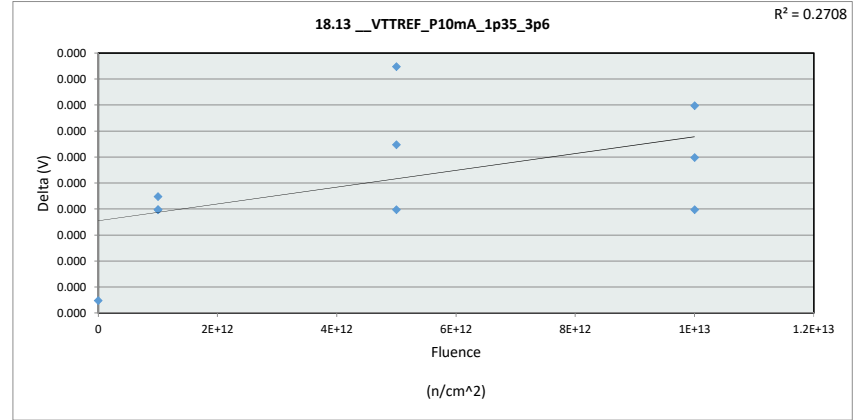
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.683	0.681	0.681	0.681
Average	0.683	0.682	0.682	0.683
Max	0.683	0.683	0.683	0.684
UL	0.695	0.695	0.695	0.695



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

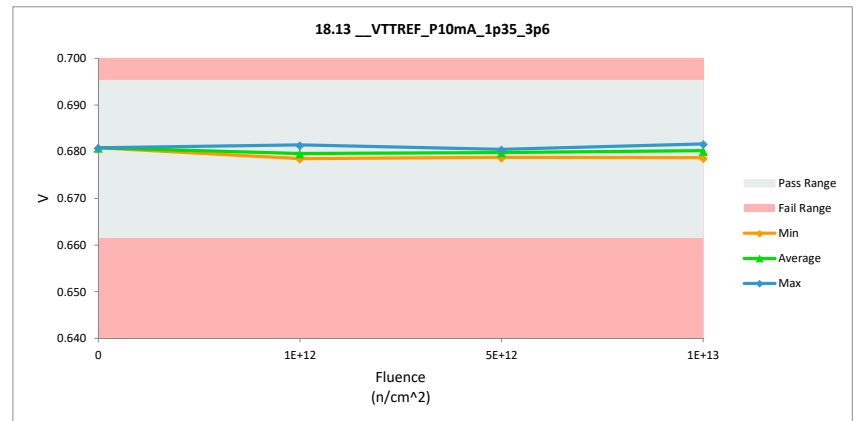
18.13_VTTREF_P10mA_1p35_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.69525	0.69525
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.681	0.681	0.000
1E+12	2	0.679	0.679	0.000
1E+12	3	0.679	0.678	0.000
1E+12	4	0.681	0.681	0.000
5E+12	5	0.681	0.681	0.000
5E+12	6	0.679	0.679	0.000
5E+12	7	0.680	0.680	0.000
1E+13	8	0.682	0.682	0.000
1E+13	9	0.679	0.679	0.000
1E+13	10	0.680	0.680	0.000
	Max	0.682	0.682	0.000
	Average	0.680	0.680	0.000
	Min	0.679	0.678	0.000
	Std Dev	0.001	0.001	0.000



18.13_VTTREF_P10mA_1p35_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.69525	V
Min Limit	0.6615	V

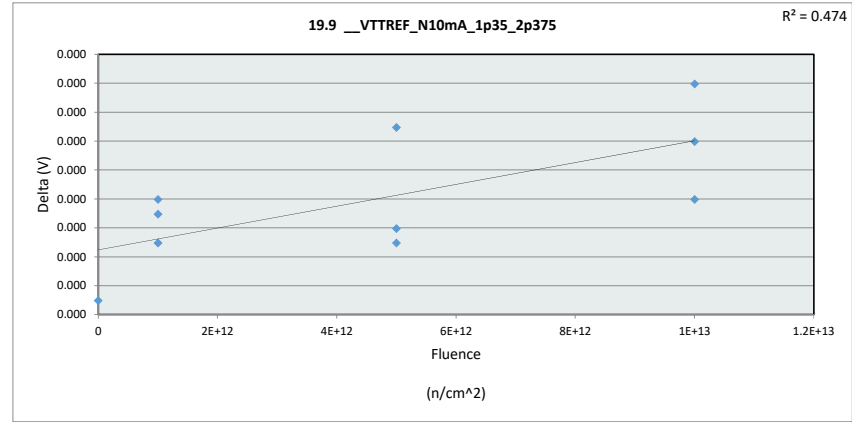
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.681	0.678	0.679	0.679
Average	0.681	0.680	0.680	0.680
Max	0.681	0.681	0.681	0.682
UL	0.695	0.695	0.695	0.695



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

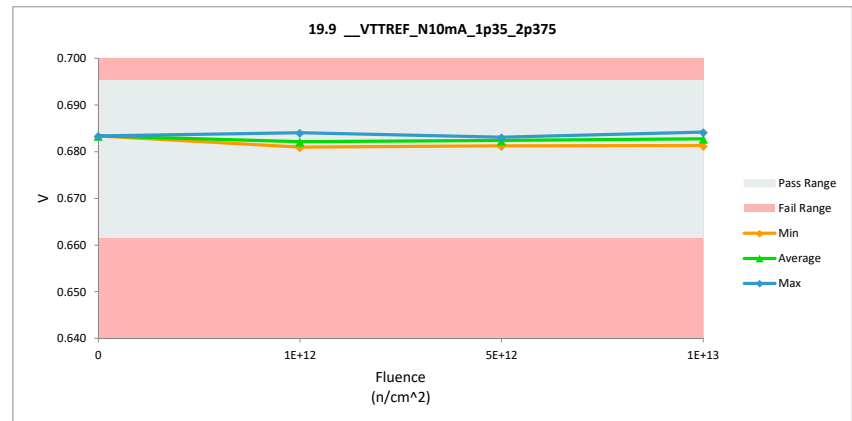
19.9 __VTTREF_N10mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.69525	0.69525
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.683	0.683	0.000
1E+12	2	0.681	0.681	0.000
1E+12	3	0.681	0.681	0.000
1E+12	4	0.684	0.684	0.000
5E+12	5	0.683	0.683	0.000
5E+12	6	0.681	0.681	0.000
5E+12	7	0.683	0.683	0.000
1E+13	8	0.684	0.684	0.000
1E+13	9	0.681	0.681	0.000
1E+13	10	0.683	0.683	0.000
	Max	0.684	0.684	0.000
	Average	0.682	0.683	0.000
	Min	0.681	0.681	0.000
	Std Dev	0.001	0.001	0.000



19.9 __VTTREF_N10mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.69525	V
Min Limit	0.6615	V

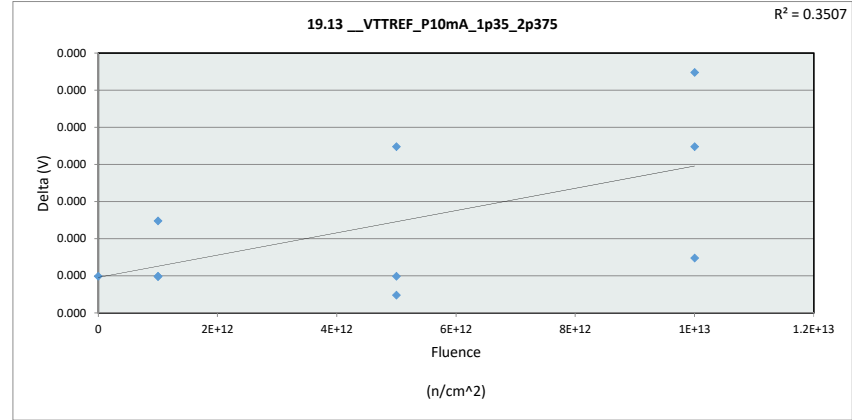
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.683	0.681	0.681	0.681
Average	0.683	0.682	0.682	0.683
Max	0.683	0.683	0.683	0.684
UL	0.695	0.695	0.695	0.695



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

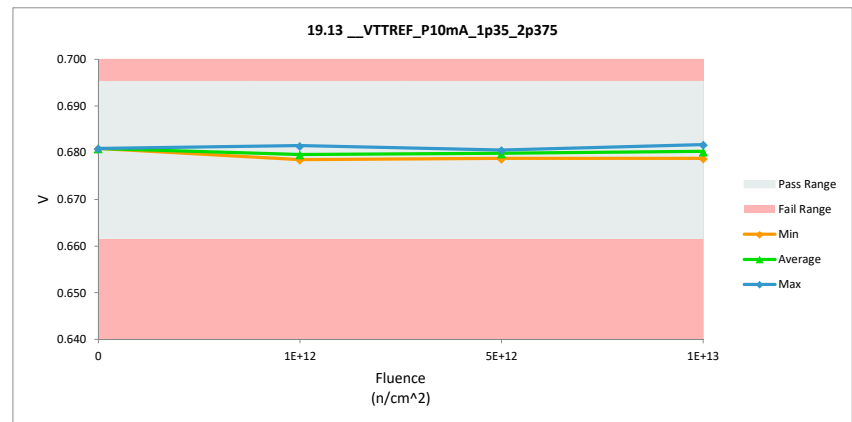
19.13_VTTREF_P10mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.69525	0.69525
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.681	0.681	0.000
1E+12	2	0.679	0.679	0.000
1E+12	3	0.679	0.679	0.000
1E+12	4	0.682	0.681	0.000
5E+12	5	0.681	0.681	0.000
5E+12	6	0.679	0.679	0.000
5E+12	7	0.680	0.680	0.000
1E+13	8	0.682	0.682	0.000
1E+13	9	0.679	0.679	0.000
1E+13	10	0.680	0.680	0.000
	Max	0.682	0.682	0.000
	Average	0.680	0.680	0.000
	Min	0.679	0.679	0.000
	Std Dev	0.001	0.001	0.000



19.13_VTTREF_P10mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.69525	V
Min Limit	0.6615	V

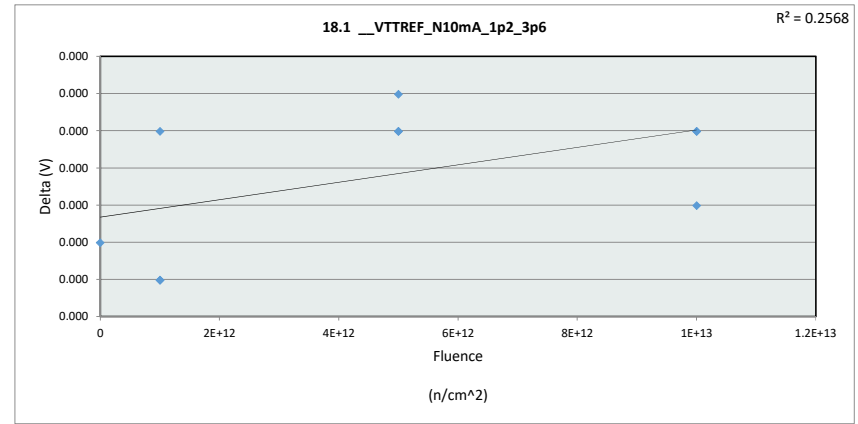
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.681	0.679	0.679	0.679
Average	0.681	0.680	0.680	0.680
Max	0.681	0.681	0.681	0.682
UL	0.695	0.695	0.695	0.695



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

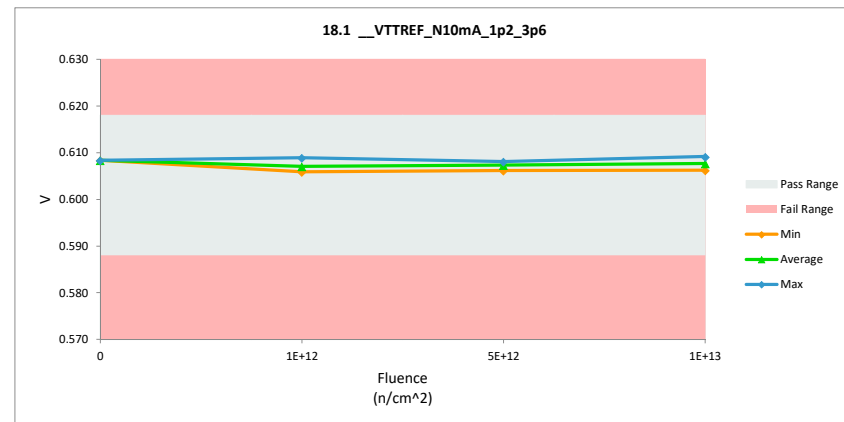
18.1 __VTTREF_N10mA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.618	0.618
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.608	0.608	0.000
1E+12	2	0.606	0.606	0.000
1E+12	3	0.606	0.606	0.000
1E+12	4	0.609	0.609	0.000
5E+12	5	0.608	0.608	0.000
5E+12	6	0.606	0.606	0.000
5E+12	7	0.608	0.608	0.000
1E+13	8	0.609	0.609	0.000
1E+13	9	0.606	0.606	0.000
1E+13	10	0.608	0.608	0.000
Max		0.609	0.609	0.000
Average		0.607	0.607	0.000
Min		0.606	0.606	0.000
Std Dev		0.001	0.001	0.000



18.1 __VTTREF_N10mA_1p2_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.618	V
Min Limit	0.588	V

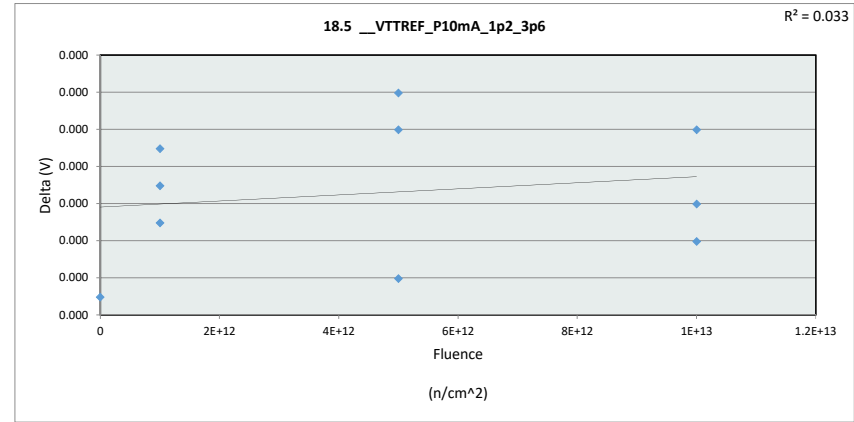
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.608	0.606	0.606	0.606
Average	0.608	0.607	0.607	0.608
Max	0.608	0.609	0.608	0.609
UL	0.618	0.618	0.618	0.618



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

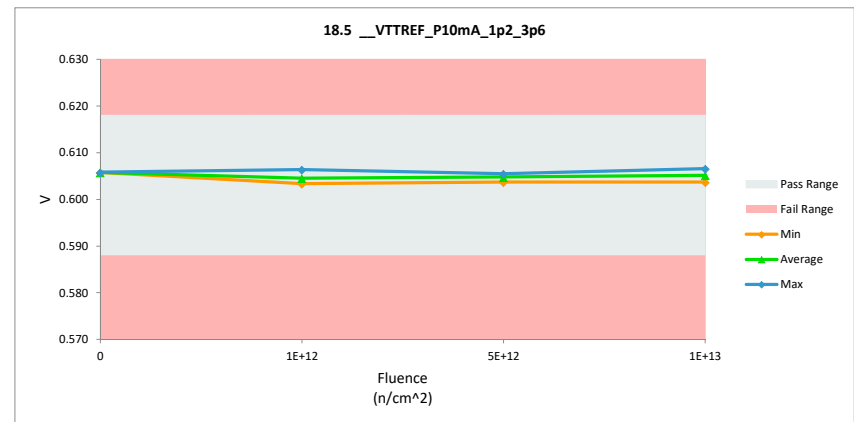
18.5 __VTTREF_P10mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.618 0.618
Min Limit	0.588 0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.606	0.606	0.000
1E+12	2	0.604	0.604	0.000
1E+12	3	0.603	0.603	0.000
1E+12	4	0.606	0.606	0.000
5E+12	5	0.605	0.605	0.000
5E+12	6	0.604	0.604	0.000
5E+12	7	0.605	0.605	0.000
1E+13	8	0.607	0.607	0.000
1E+13	9	0.604	0.604	0.000
1E+13	10	0.605	0.605	0.000
Max		0.607	0.607	0.000
Average		0.605	0.605	0.000
Min		0.603	0.603	0.000
Std Dev		0.001	0.001	0.000



18.5 __VTTREF_P10mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.618 V
Min Limit	0.588 V

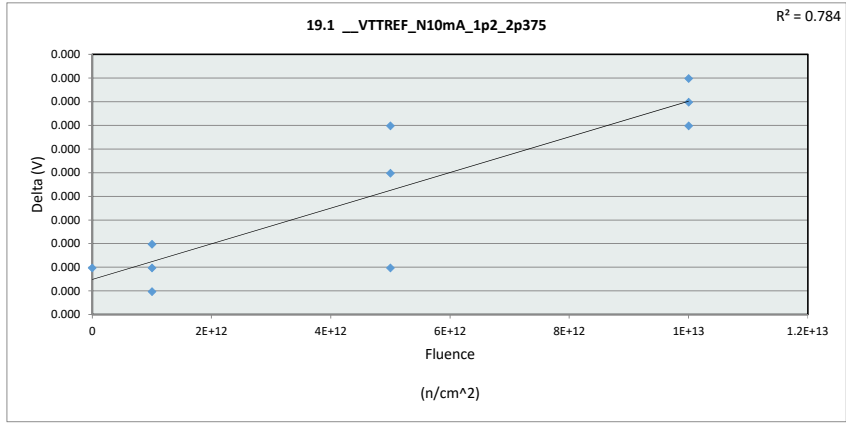
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.606	0.603	0.604	0.604
Average	0.606	0.605	0.605	0.605
Max	0.606	0.605	0.605	0.607
UL	0.618	0.618	0.618	0.618



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

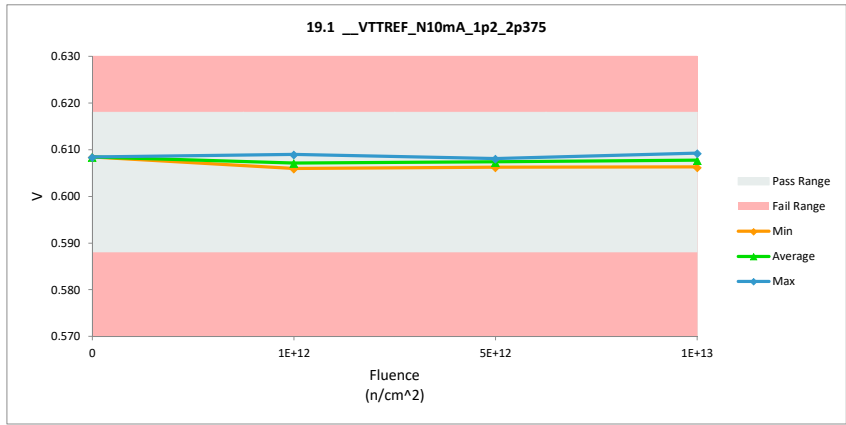
19.1 __VTTREF_N10mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.618	0.618
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.608	0.608	0.000
1E+12	2	0.606	0.606	0.000
1E+12	3	0.606	0.606	0.000
1E+12	4	0.609	0.609	0.000
5E+12	5	0.608	0.608	0.000
5E+12	6	0.606	0.606	0.000
5E+12	7	0.608	0.608	0.000
1E+13	8	0.609	0.609	0.000
1E+13	9	0.606	0.606	0.000
1E+13	10	0.608	0.608	0.000
Max		0.609	0.609	0.000
Average		0.607	0.608	0.000
Min		0.606	0.606	0.000
Std Dev		0.001	0.001	0.000



19.1 __VTTREF_N10mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.618	V
Min Limit	0.588	V

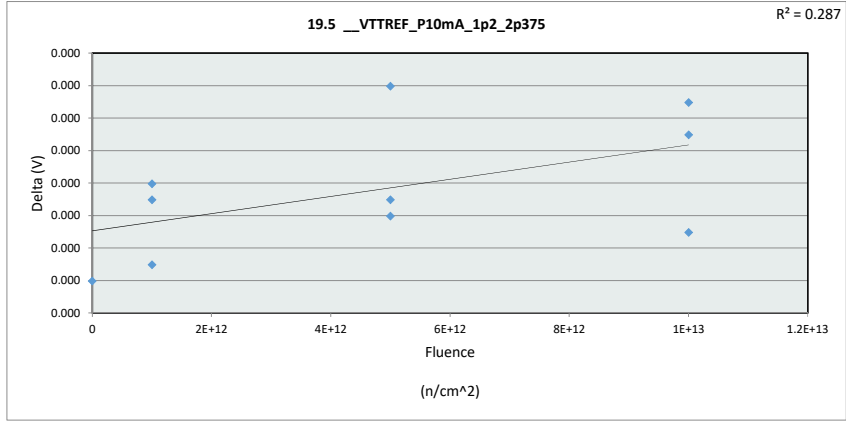
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.608	0.606	0.606	0.606
Average	0.608	0.607	0.607	0.608
Max	0.608	0.609	0.608	0.609
UL	0.618	0.618	0.618	0.618



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

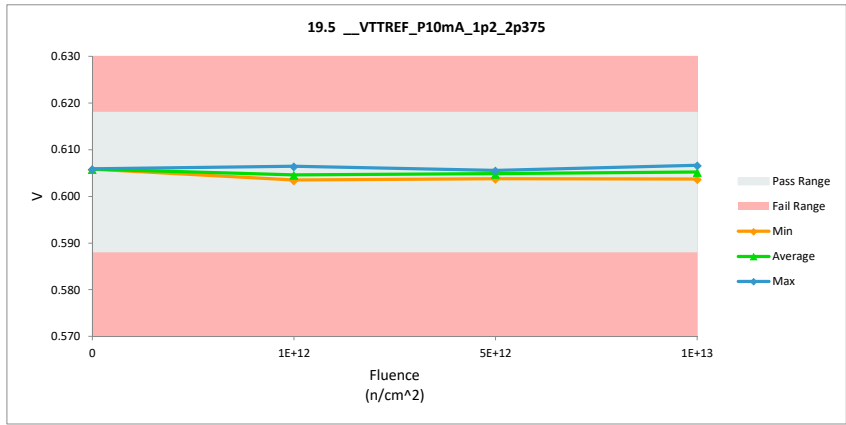
19.5 __VTTREF_P10mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.618 0.618
Min Limit	0.588 0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.606	0.606	0.000
1E+12	2	0.604	0.604	0.000
1E+12	3	0.604	0.603	0.000
1E+12	4	0.606	0.606	0.000
5E+12	5	0.606	0.606	0.000
5E+12	6	0.604	0.604	0.000
5E+12	7	0.605	0.605	0.000
1E+13	8	0.607	0.607	0.000
1E+13	9	0.604	0.604	0.000
1E+13	10	0.605	0.605	0.000
	Max	0.607	0.607	0.000
	Average	0.605	0.605	0.000
	Min	0.604	0.603	0.000
	Std Dev	0.001	0.001	0.000



19.5 __VTTREF_P10mA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.618 V
Min Limit	0.588 V

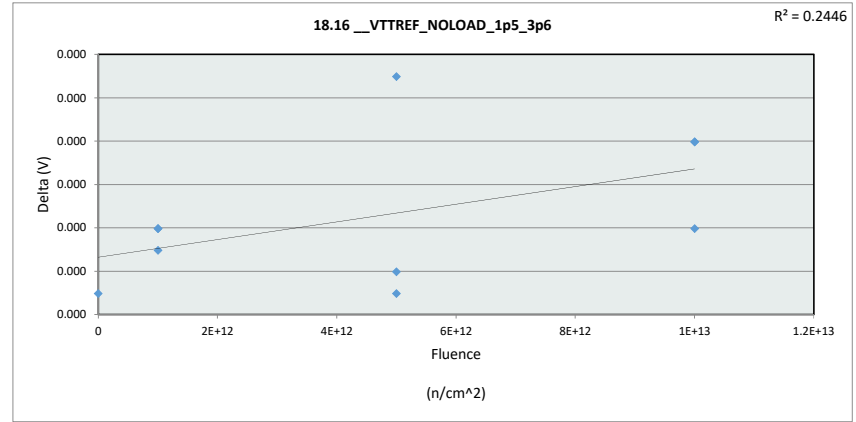
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.606	0.603	0.604	0.604
Average	0.606	0.605	0.605	0.605
Max	0.606	0.606	0.606	0.607
UL	0.618	0.618	0.618	0.618



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

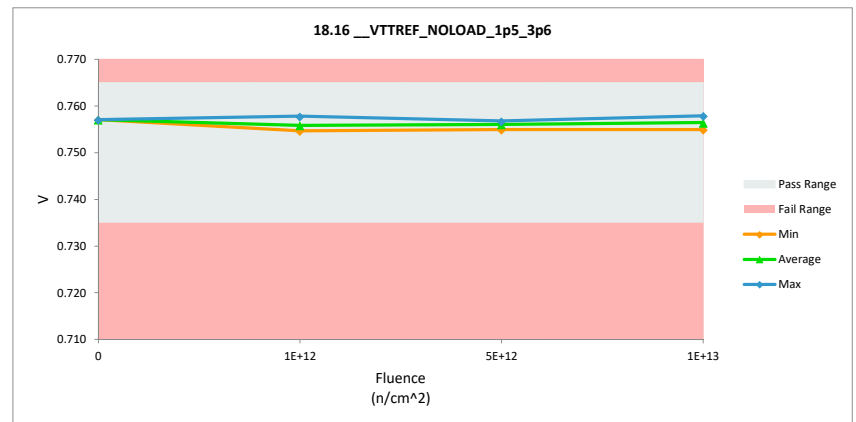
18.16_VTTREF_NOLOAD_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



18.16_VTTREF_NOLOAD_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

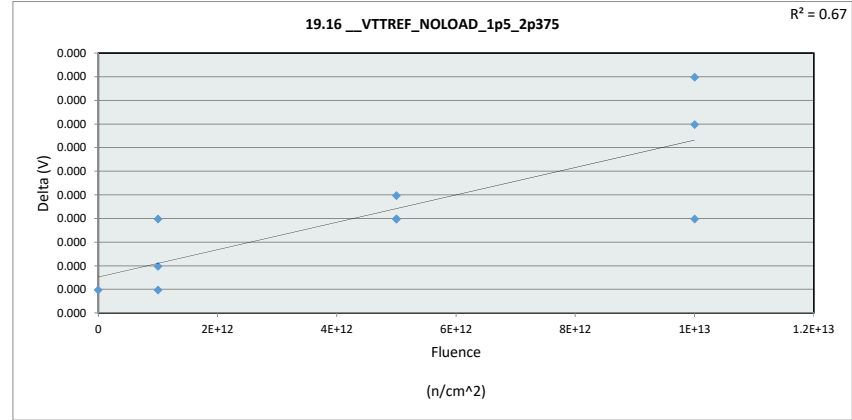
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

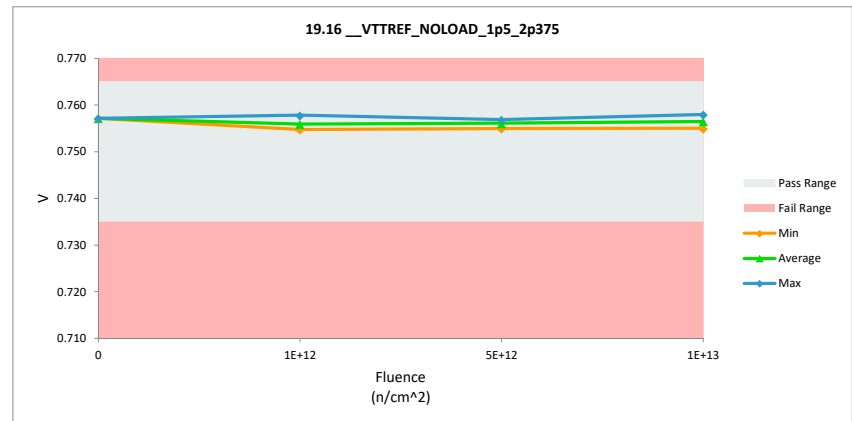
19.16_VTTREF_NOLOAD_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.16_VTTREF_NOLOAD_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

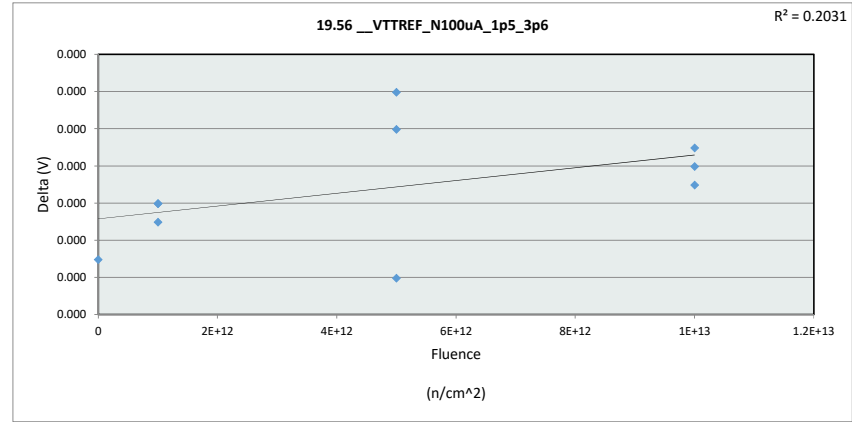
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

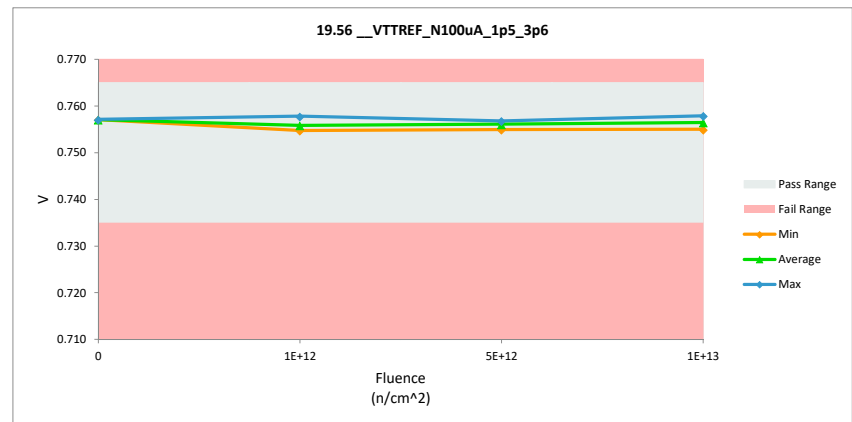
19.56_VTTREF_N100uA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.56_VTTREF_N100uA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

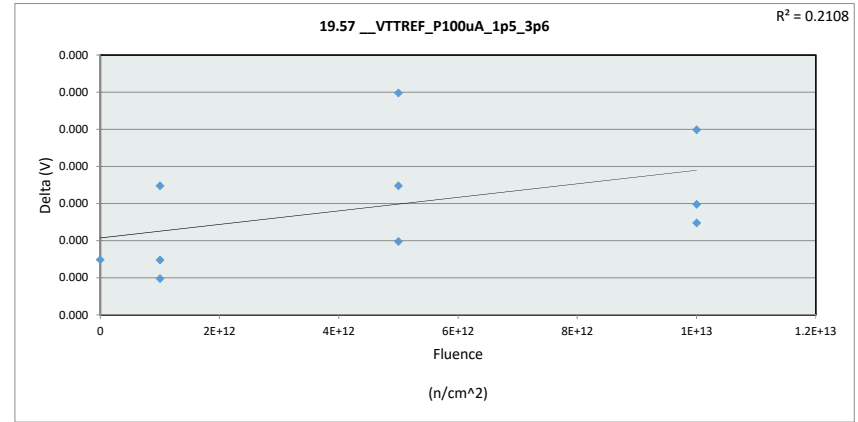
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

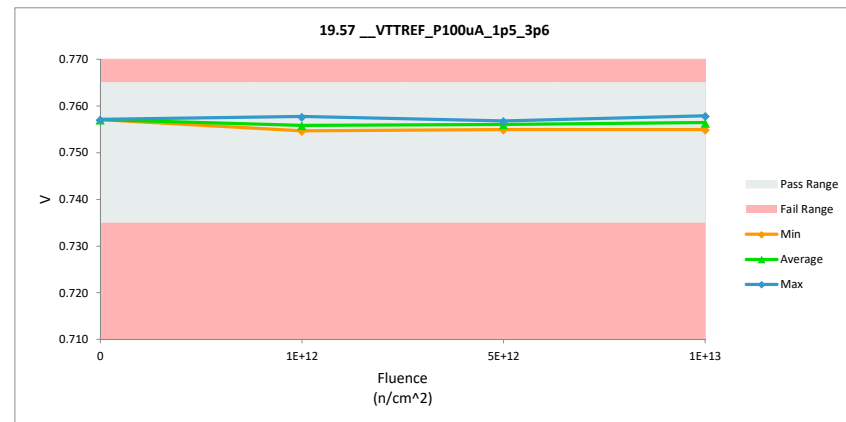
19.57_VTTREF_P100uA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.57_VTTREF_P100uA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

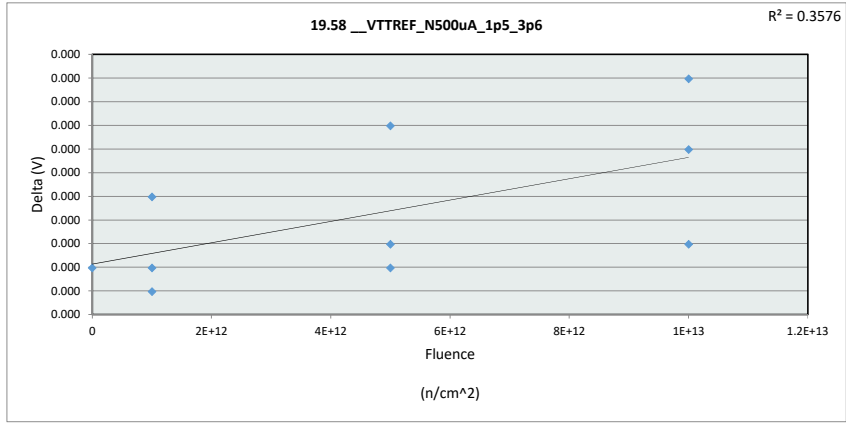
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

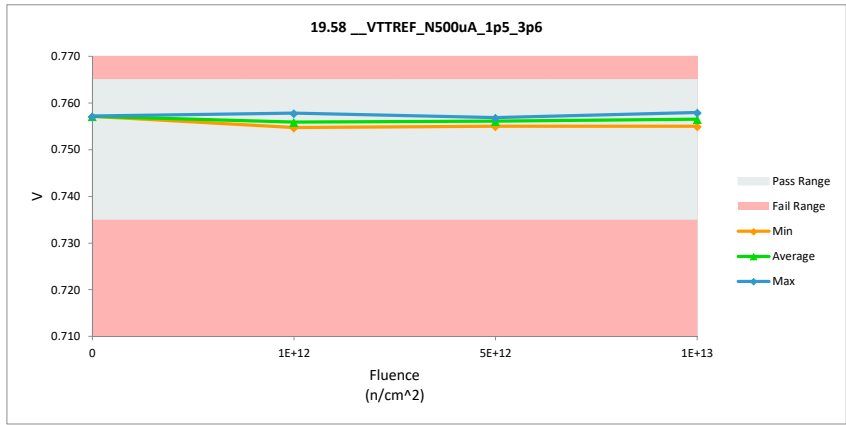
19.58_VTTREF_N500uA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.757	0.000
Max		0.758	0.758	0.000
Average		0.756	0.756	0.000
Min		0.755	0.755	0.000
Std Dev		0.001	0.001	0.000



19.58_VTTREF_N500uA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

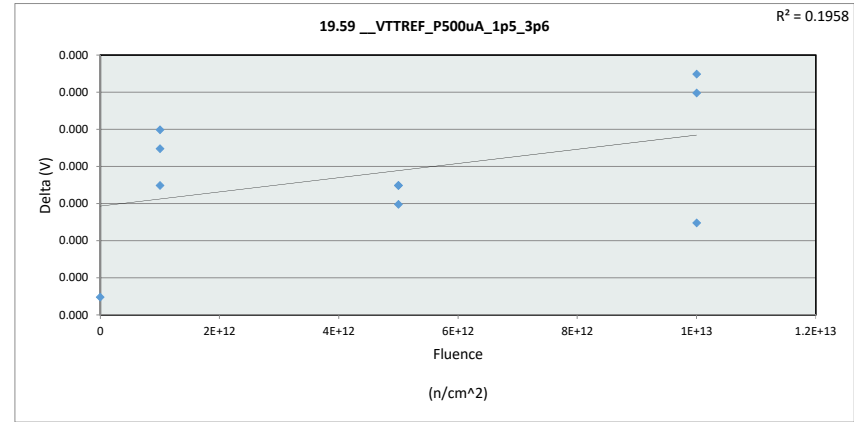
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.757
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

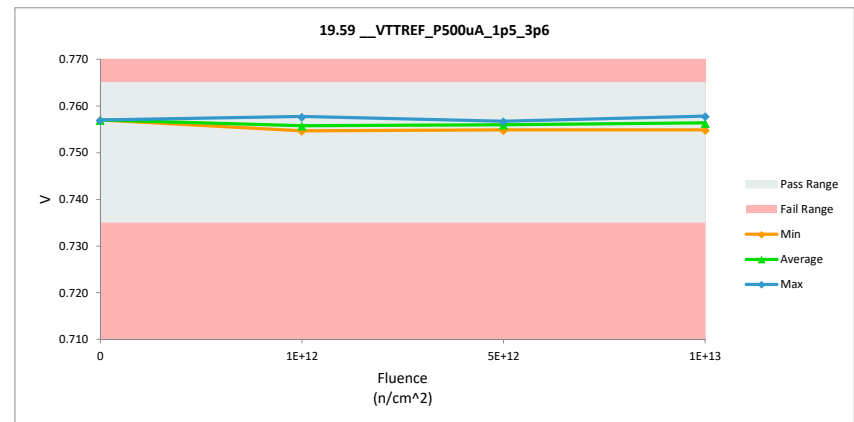
19.59_VTTREF_P500uA_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.765
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.59_VTTREF_P500uA_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.765
Min Limit	0.735

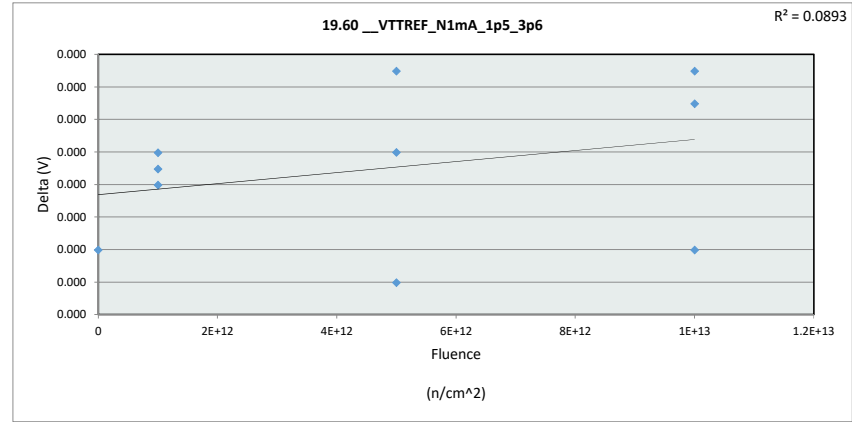
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

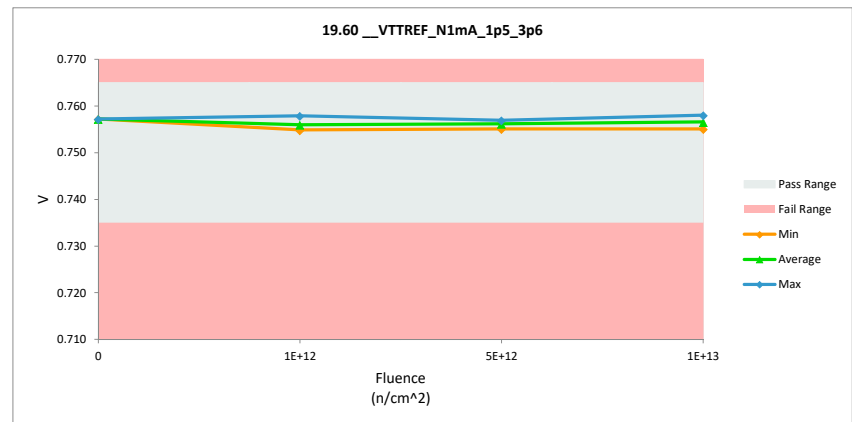
19.60_VTTREF_N1mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.757	0.757	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.757	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.60_VTTREF_N1mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

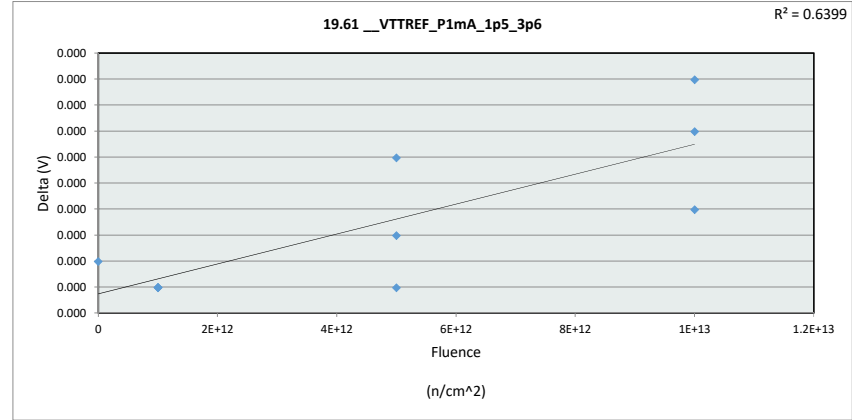
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.757
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

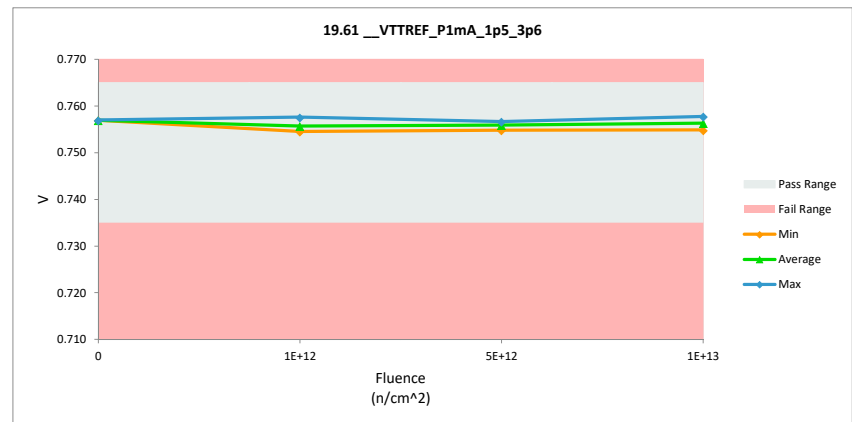
19.61_VTTREF_P1mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
Max		0.758	0.758	0.000
Average		0.756	0.756	0.000
Min		0.755	0.755	0.000
Std Dev		0.001	0.001	0.000



19.61_VTTREF_P1mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

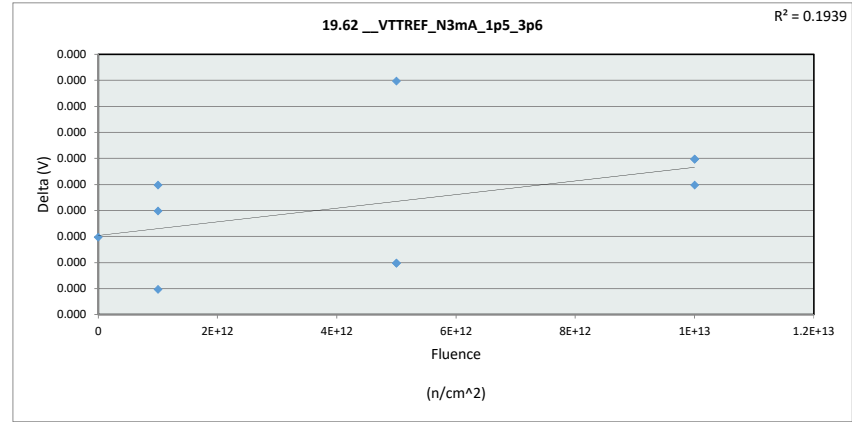
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

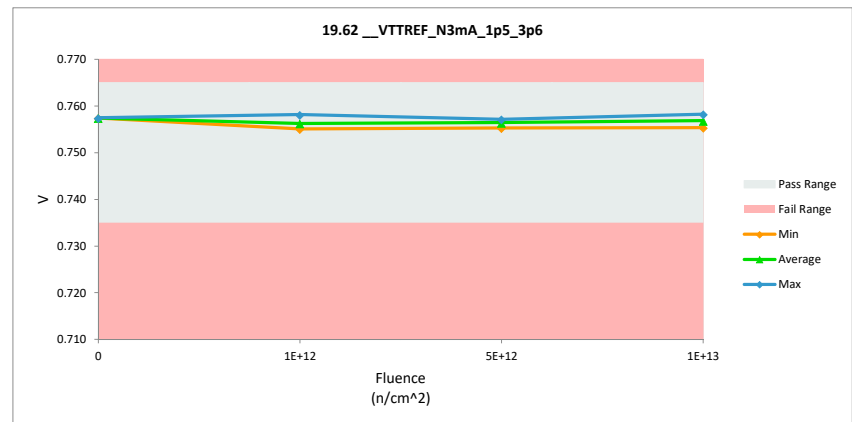
19.62_VTTREF_N3mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.756	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.757	0.757	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.757	0.757	0.000
	Max	0.758	0.758	0.000
	Average	0.757	0.757	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.62_VTTREF_N3mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

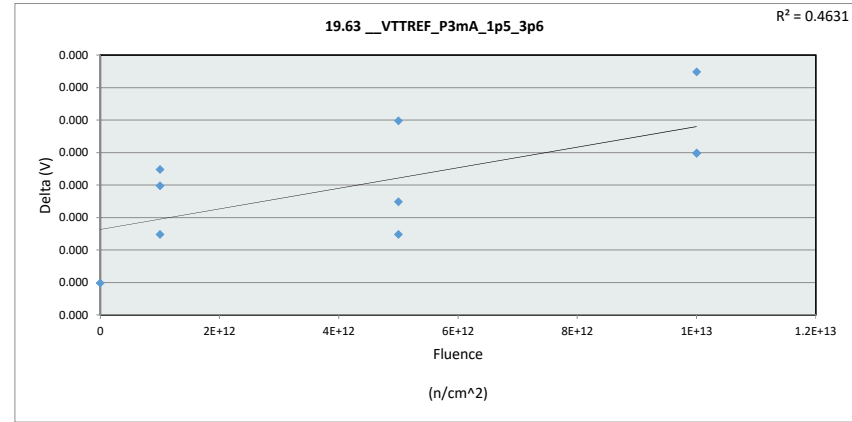
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.757
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

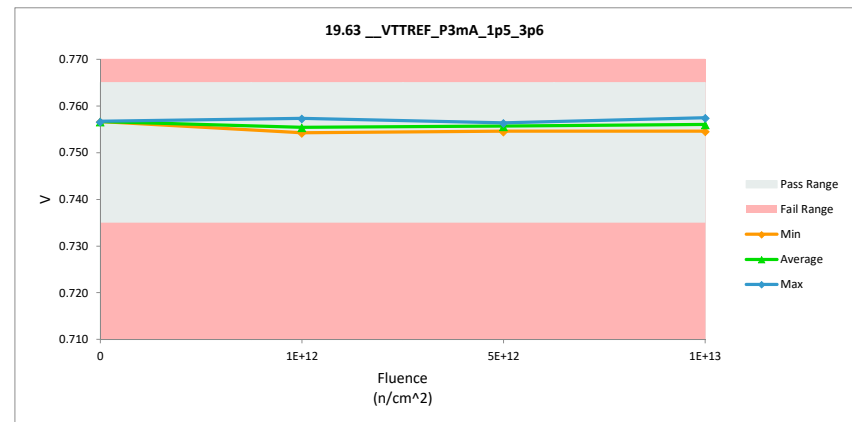
19.63_VTTREF_P3mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.754	0.754	0.000
1E+12	4	0.757	0.757	0.000
5E+12	5	0.756	0.756	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.757	0.757	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.757	0.757	0.000
	Average	0.756	0.756	0.000
	Min	0.754	0.754	0.000
	Std Dev	0.001	0.001	0.000



19.63_VTTREF_P3mA_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

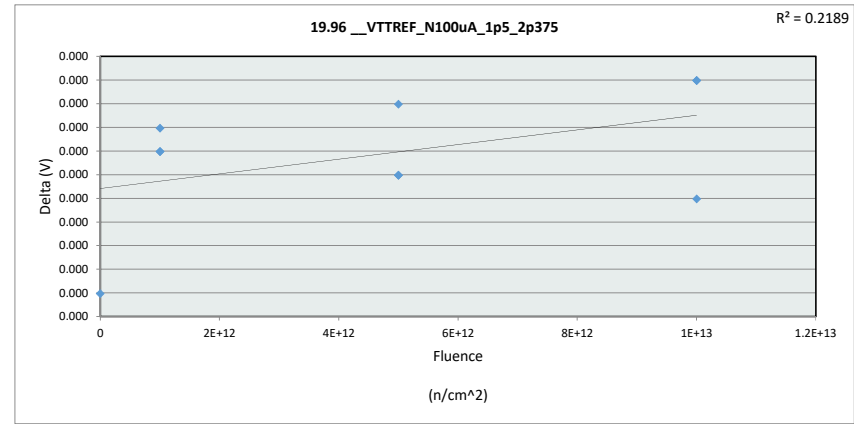
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.754	0.755	0.755
Average	0.757	0.755	0.756	0.756
Max	0.757	0.757	0.756	0.757
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

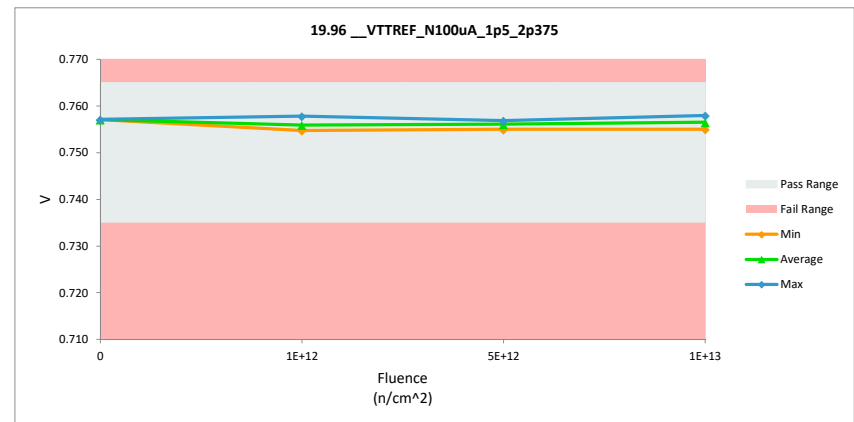
19.96_VTTREF_N100uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.96_VTTREF_N100uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

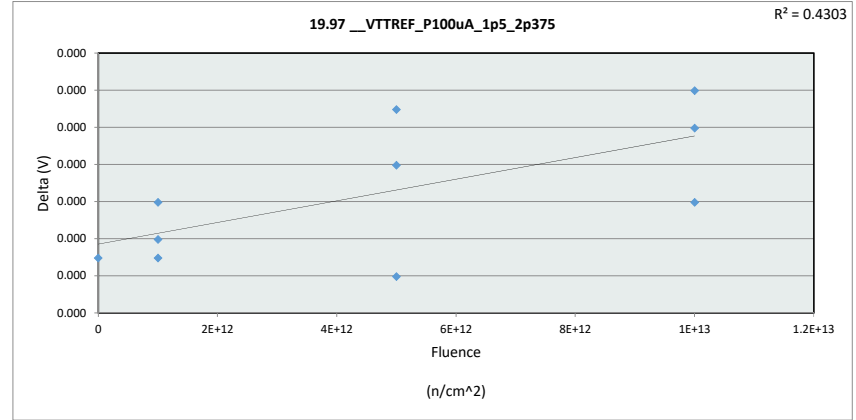
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

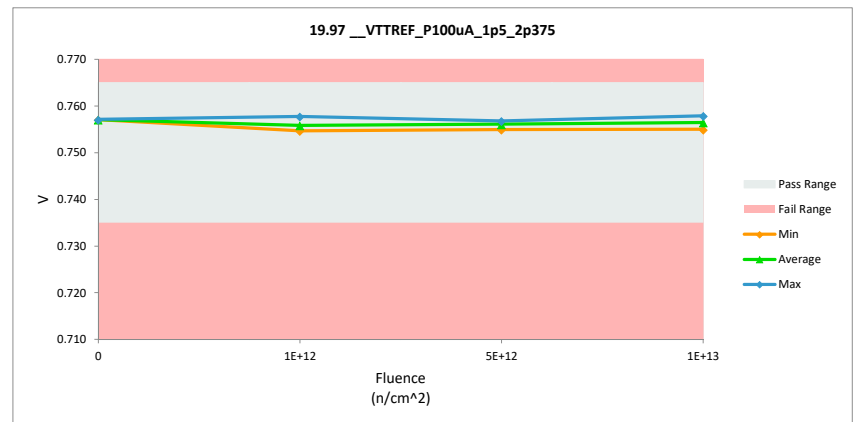
19.97_VTTREF_P100uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.97_VTTREF_P100uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

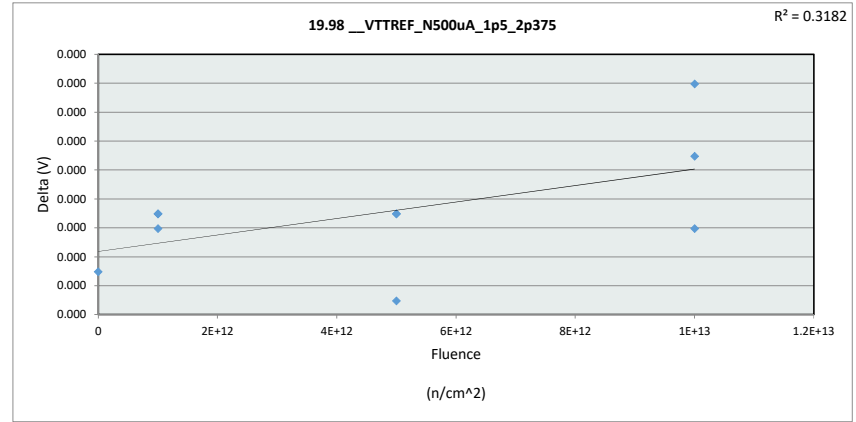
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

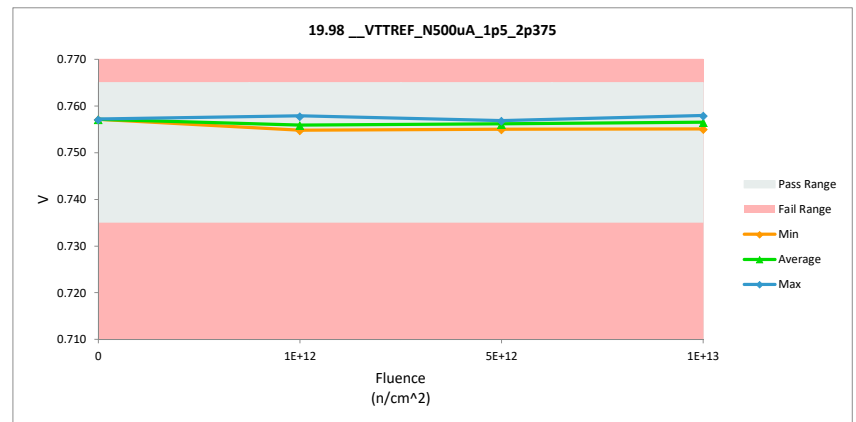
19.98_VTTREF_N500uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.757	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.757	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.98_VTTREF_N500uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

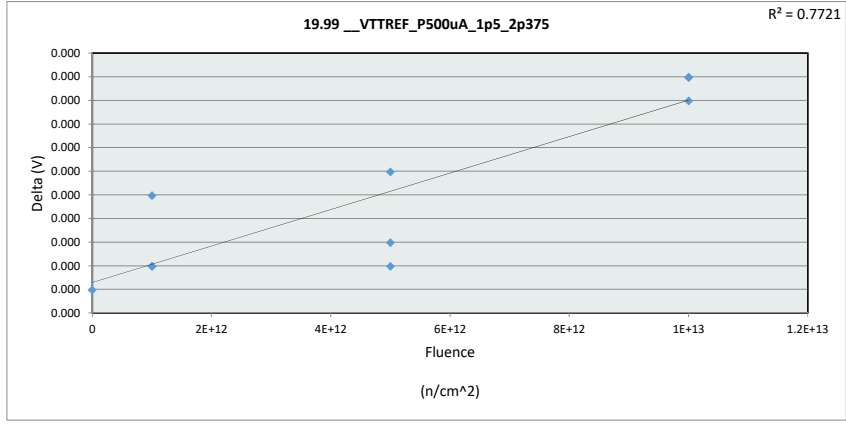
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.757
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

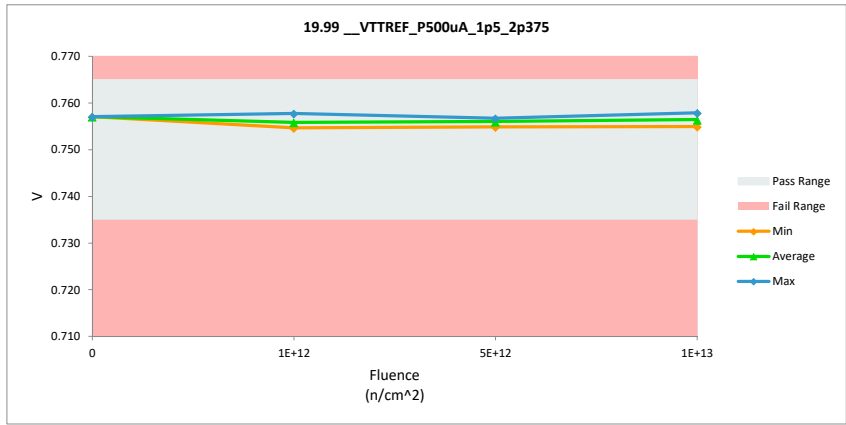
19.99_VTTREF_P500uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.99_VTTREF_P500uA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

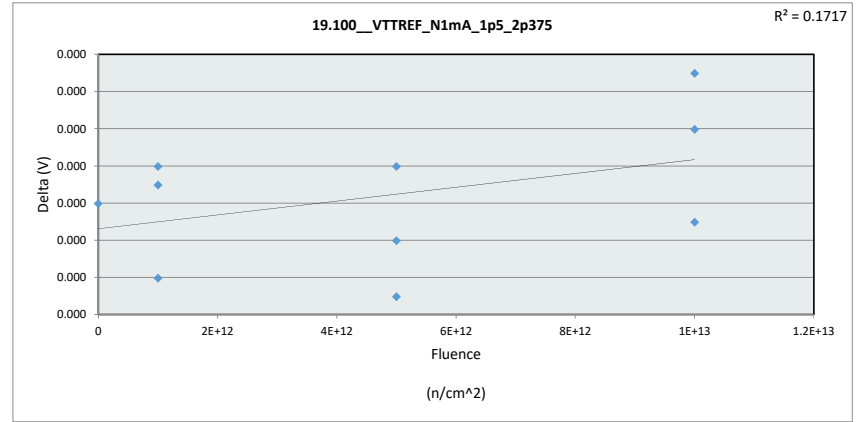
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

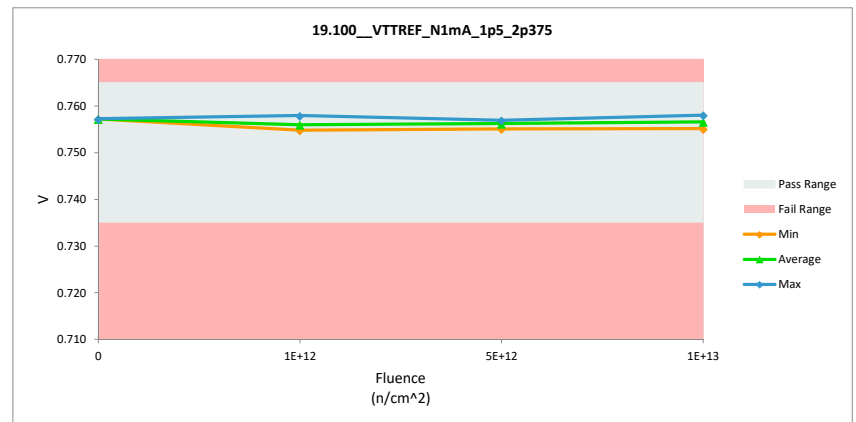
19.100_VTTREF_N1mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.765
Min Limit	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.757	0.757	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.757	0.757	0.000
Max		0.758	0.758	0.000
Average		0.756	0.756	0.000
Min		0.755	0.755	0.000
Std Dev		0.001	0.001	0.000



19.100_VTTREF_N1mA_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.765
Min Limit	0.735

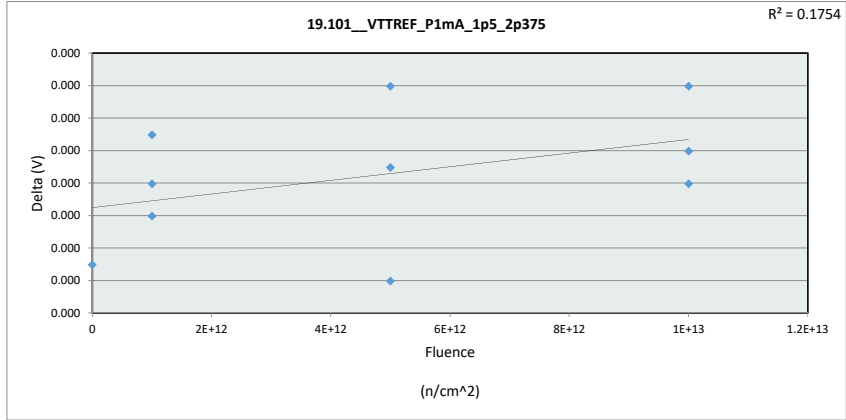
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.757
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

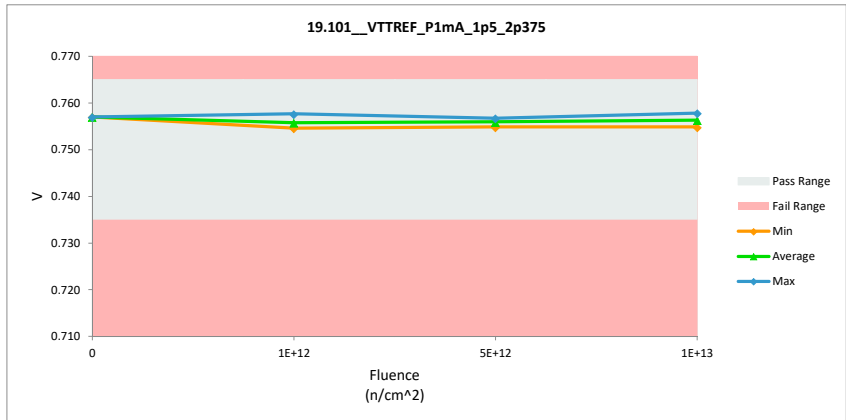
19.101_VTTREF_P1mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.758	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.101_VTTREF_P1mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

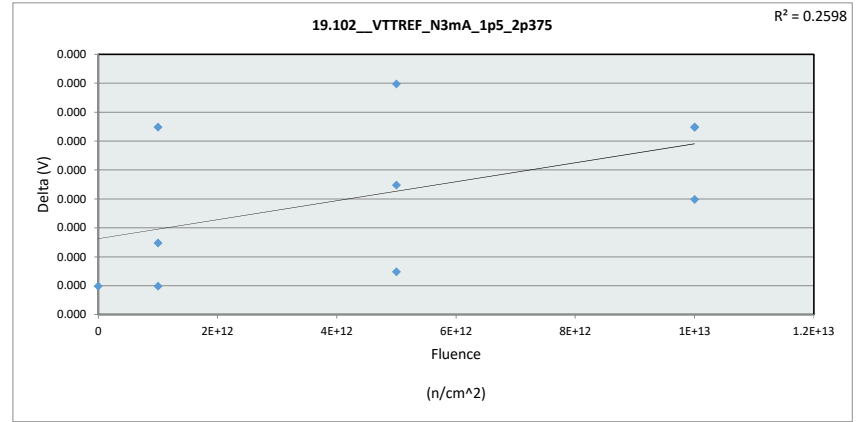
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.756
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

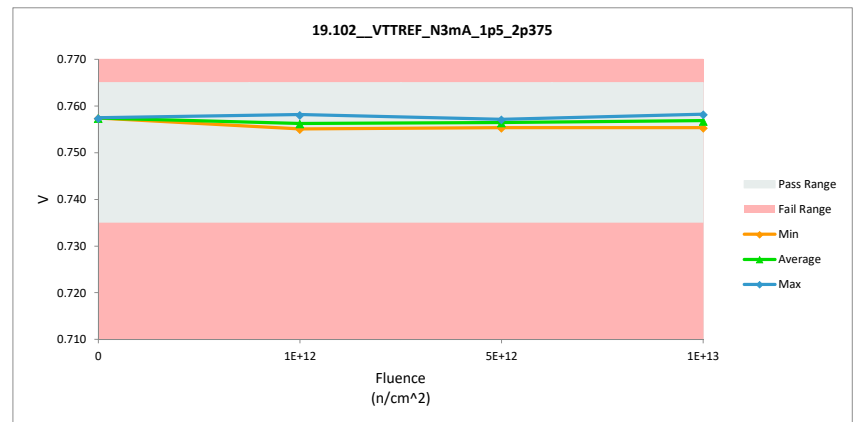
19.102_VTTREF_N3mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.758	0.757	0.000
1E+12	2	0.755	0.756	0.000
1E+12	3	0.755	0.755	0.000
1E+12	4	0.758	0.758	0.000
5E+12	5	0.757	0.757	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.757	0.757	0.000
1E+13	8	0.758	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.757	0.757	0.000
	Max	0.758	0.758	0.000
	Average	0.757	0.757	0.000
	Min	0.755	0.755	0.000
	Std Dev	0.001	0.001	0.000



19.102_VTTREF_N3mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

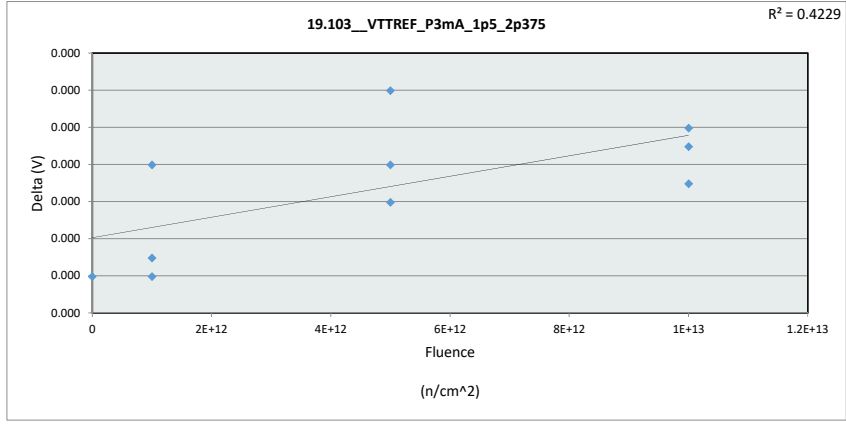
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.755	0.755	0.755
Average	0.757	0.756	0.756	0.757
Max	0.757	0.758	0.757	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

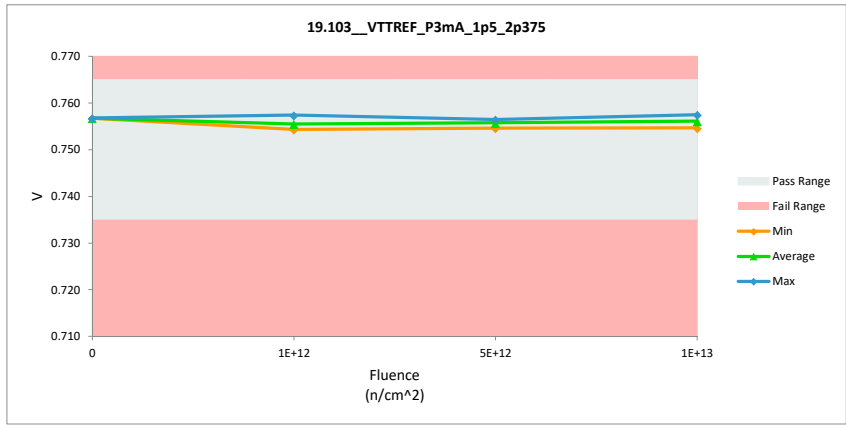
19.103_VTTREF_P3mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.765	0.765
Min Limit	0.735	0.735

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.757	0.757	0.000
1E+12	2	0.755	0.755	0.000
1E+12	3	0.754	0.754	0.000
1E+12	4	0.757	0.757	0.000
5E+12	5	0.756	0.756	0.000
5E+12	6	0.755	0.755	0.000
5E+12	7	0.756	0.756	0.000
1E+13	8	0.757	0.758	0.000
1E+13	9	0.755	0.755	0.000
1E+13	10	0.756	0.756	0.000
	Max	0.757	0.758	0.000
	Average	0.756	0.756	0.000
	Min	0.754	0.754	0.000
	Std Dev	0.001	0.001	0.000



19.103_VTTREF_P3mA_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.765	V
Min Limit	0.735	V

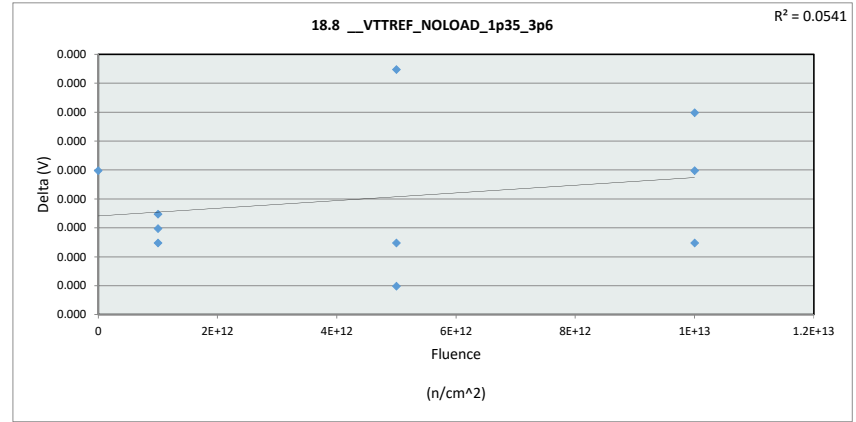
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.735	0.735	0.735	0.735
Min	0.757	0.754	0.755	0.755
Average	0.757	0.755	0.756	0.756
Max	0.757	0.755	0.756	0.758
UL	0.765	0.765	0.765	0.765



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

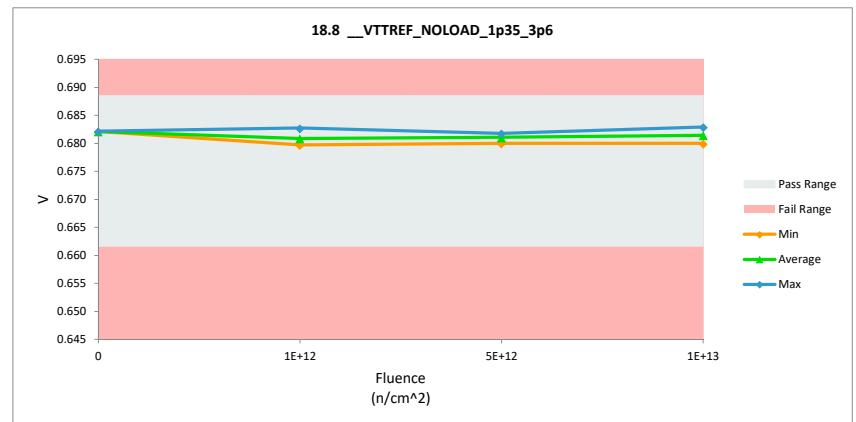
18.8 __VTTREF_NOLOAD_1p35_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



18.8 __VTTREF_NOLOAD_1p35_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

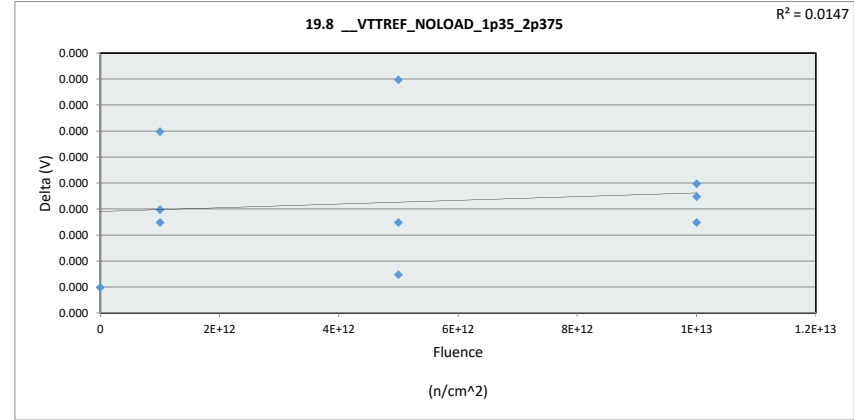
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



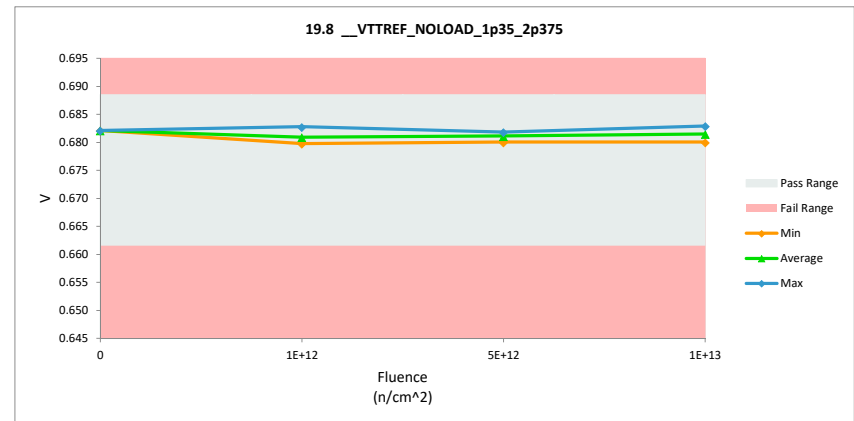
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

19.8 __VTTREF_NOLOAD_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



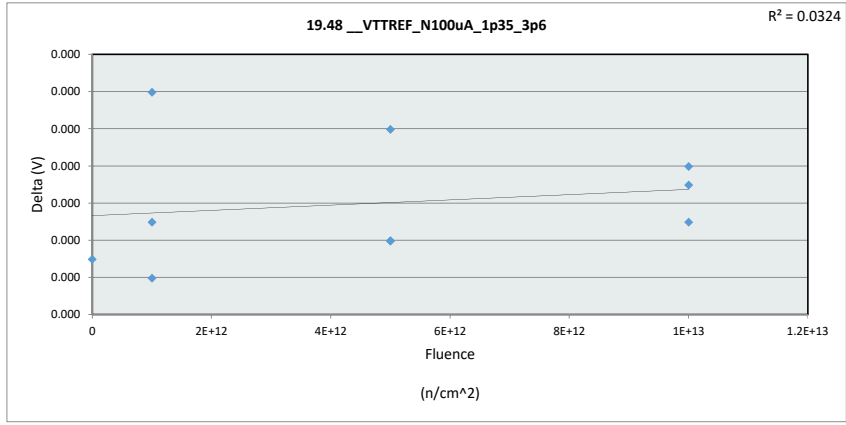
19.8 __VTTREF_NOLOAD_1p35_2p375				
Test Site				
Tester				
Test Number				
Max Limit	0.6885	V		
Min Limit	0.6615	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

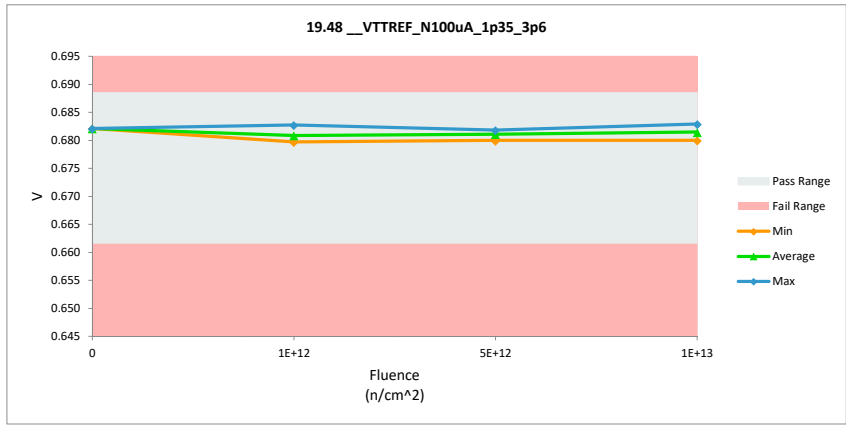
19.48_VTTREF_N100uA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.48_VTTREF_N100uA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

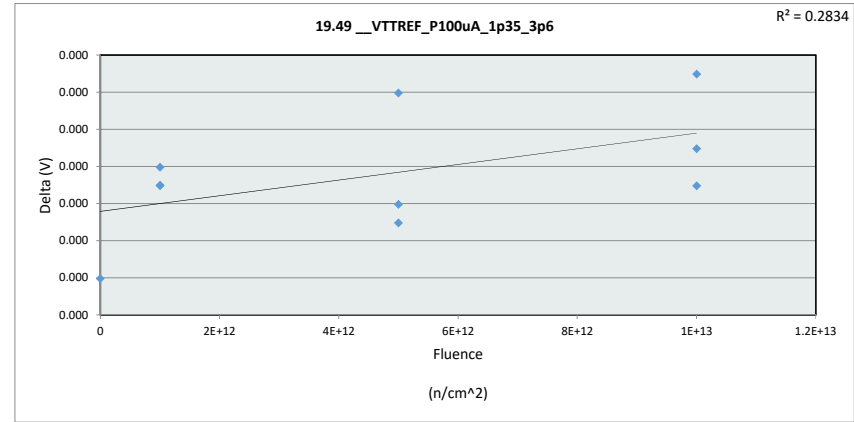
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

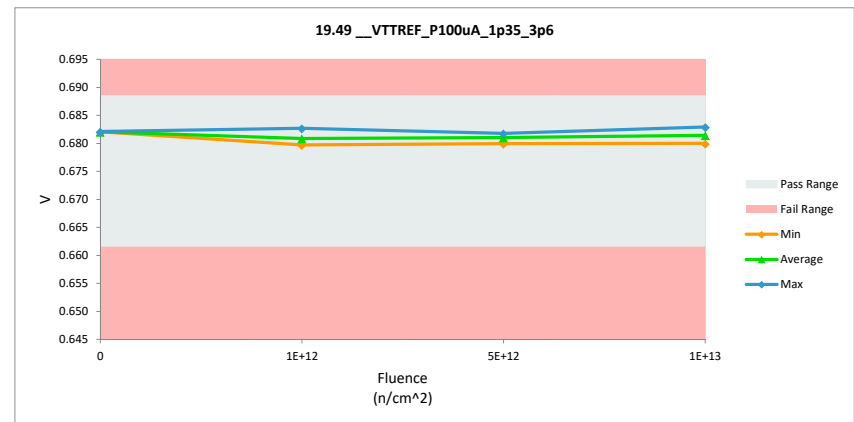
19.49_VTTREF_P100uA_1p35_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.49_VTTREF_P100uA_1p35_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

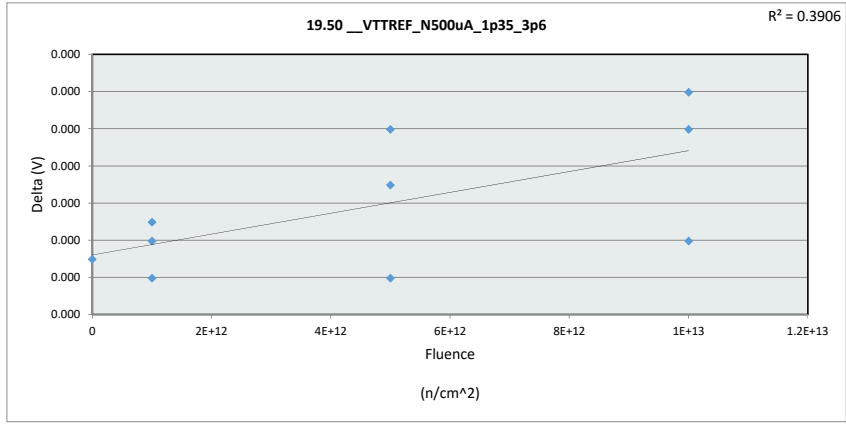
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

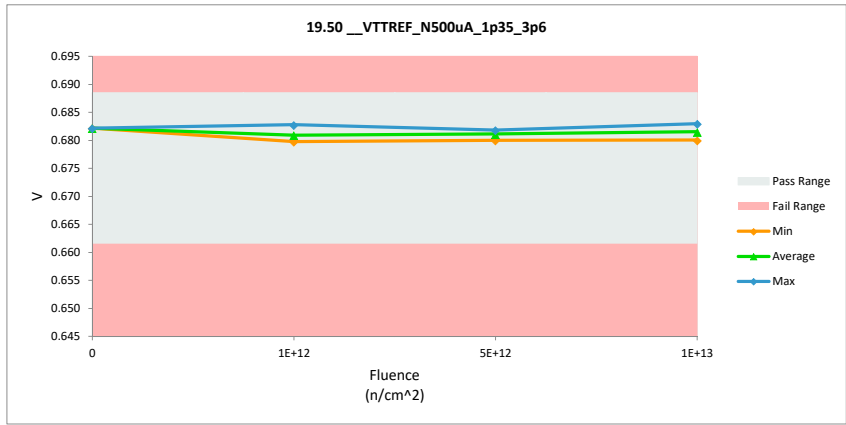
19.50_VTTREF_N500uA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.50_VTTREF_N500uA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

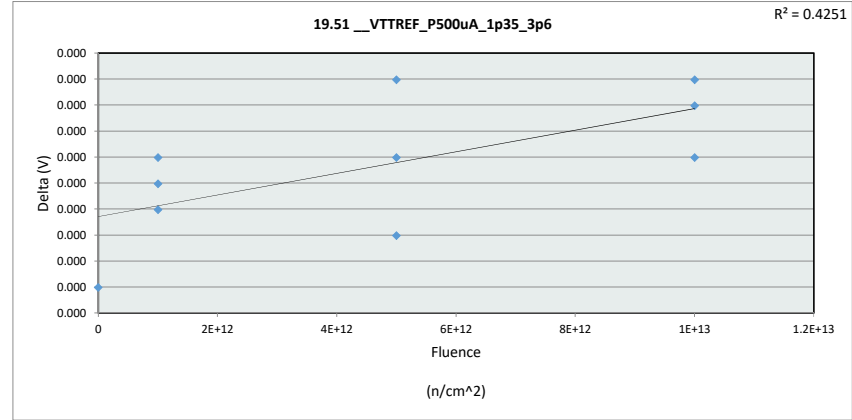
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

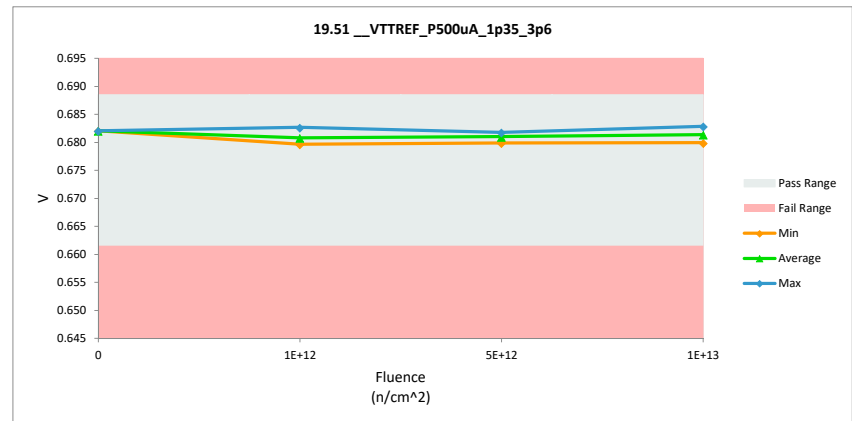
19.51_VTTREF_P500uA_1p35_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.51_VTTREF_P500uA_1p35_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

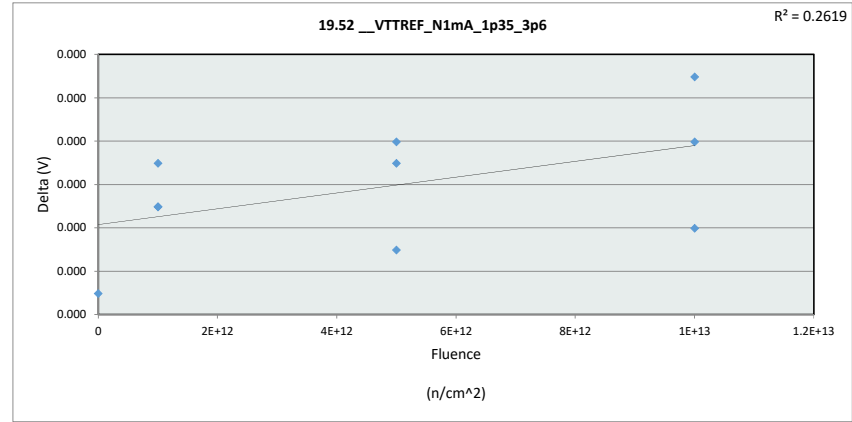
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

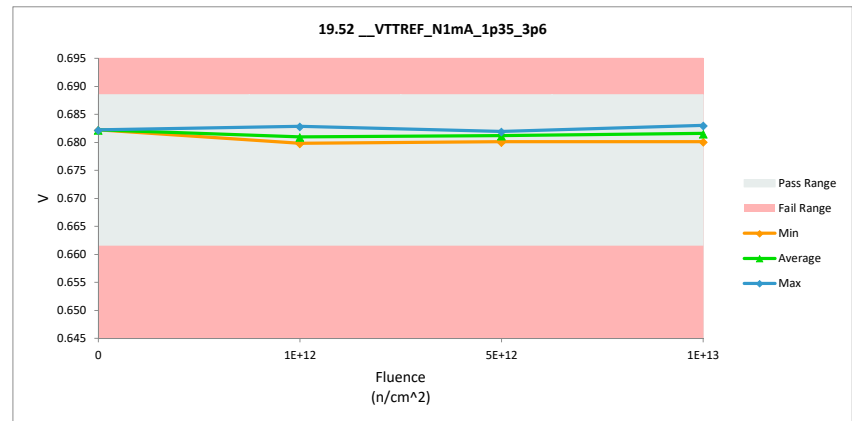
19.52_VTTREF_N1mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.682	0.682	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.682	0.682	0.000
Max		0.683	0.683	0.000
Average		0.681	0.681	0.000
Min		0.680	0.680	0.000
Std Dev		0.001	0.001	0.000



19.52_VTTREF_N1mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

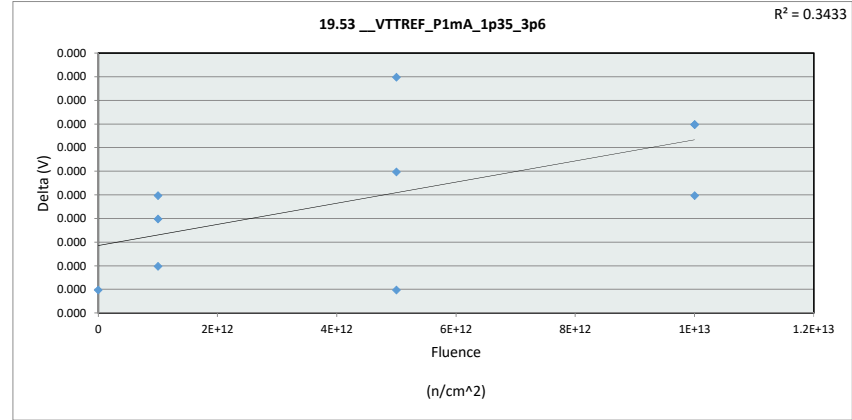
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.682
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

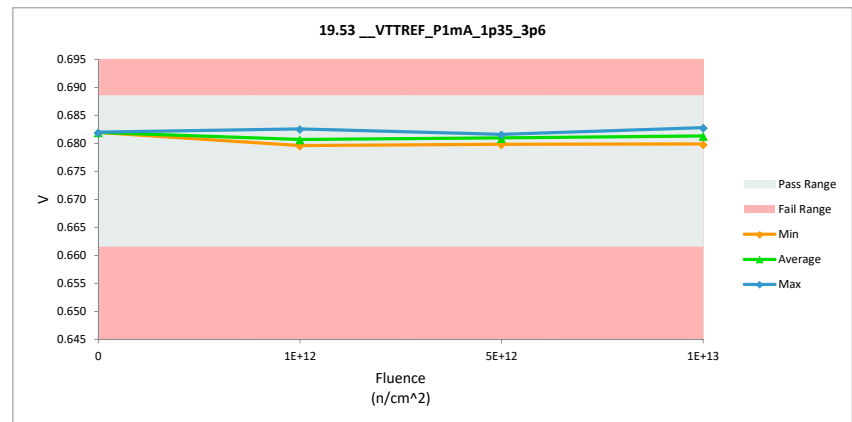
19.53_VTTREF_P1mA_1p35_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
Max		0.683	0.683	0.000
Average		0.681	0.681	0.000
Min		0.680	0.680	0.000
Std Dev		0.001	0.001	0.000



19.53_VTTREF_P1mA_1p35_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

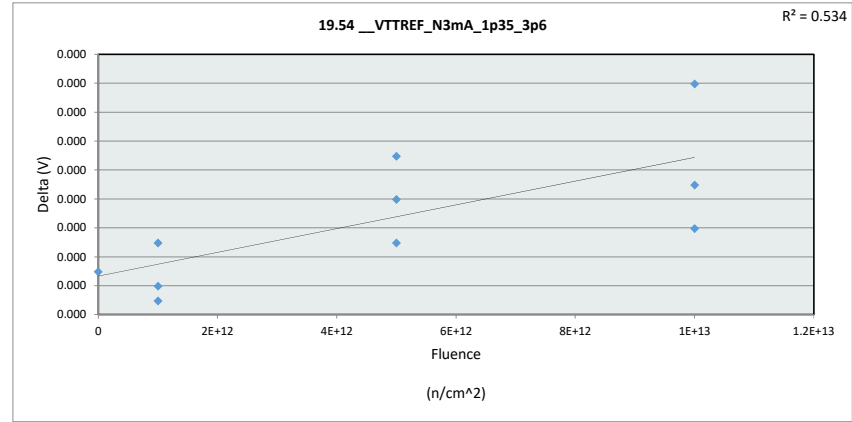
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

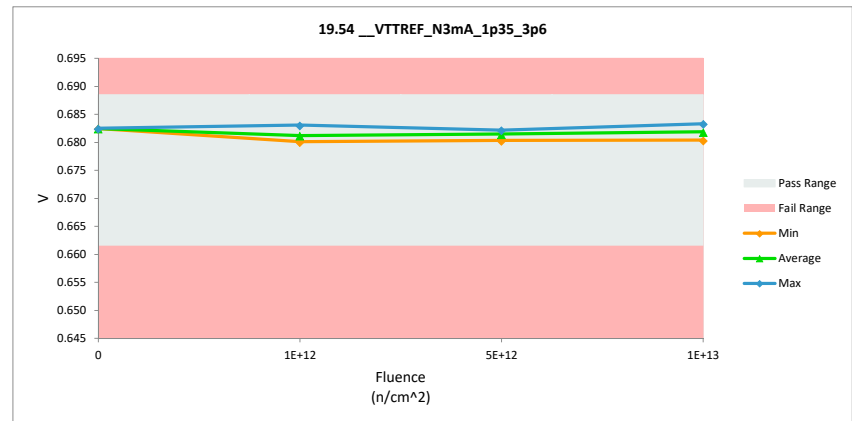
19.54_VTTREF_N3mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.683	0.682	0.000
1E+12	2	0.681	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.682	0.682	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.682	0.682	0.000
Max		0.683	0.683	0.000
Average		0.682	0.682	0.000
Min		0.680	0.680	0.000
Std Dev		0.001	0.001	0.000



19.54_VTTREF_N3mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

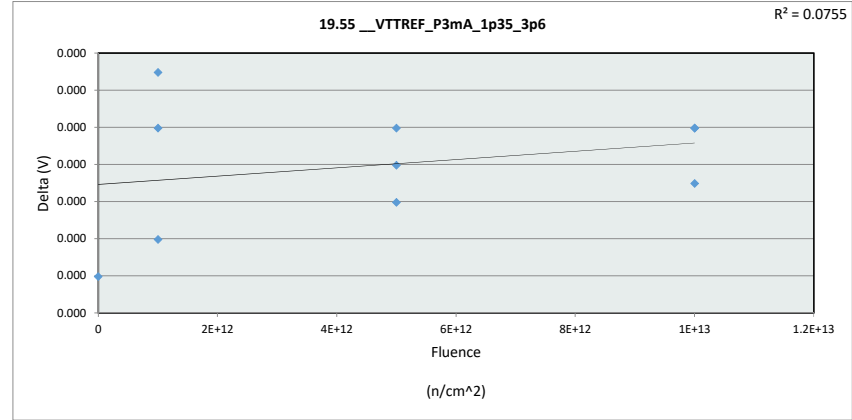
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.682
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

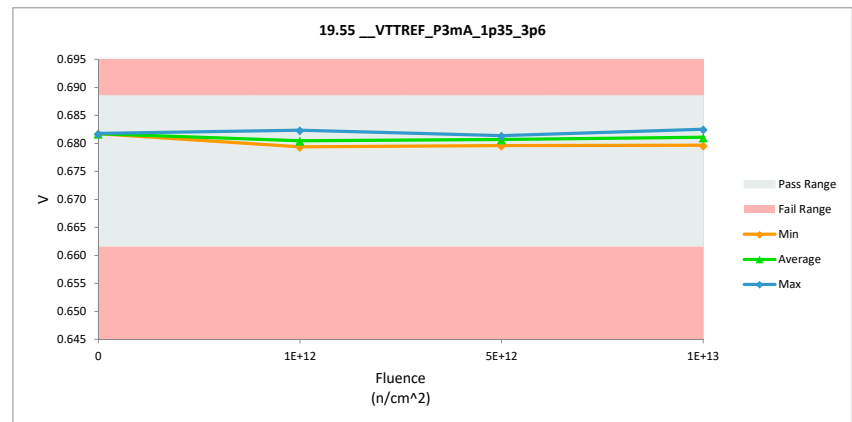
19.55_VTTREF_P3mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.679	0.679	0.000
1E+12	4	0.682	0.682	0.000
5E+12	5	0.681	0.681	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.679	0.679	0.000
	Std Dev	0.001	0.001	0.000



19.55_VTTREF_P3mA_1p35_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

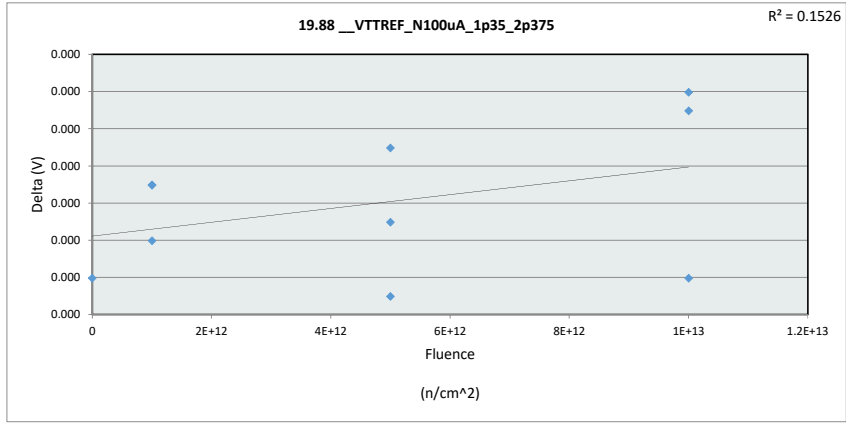
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.679	0.680	0.680
Average	0.682	0.680	0.681	0.681
Max	0.682	0.682	0.681	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

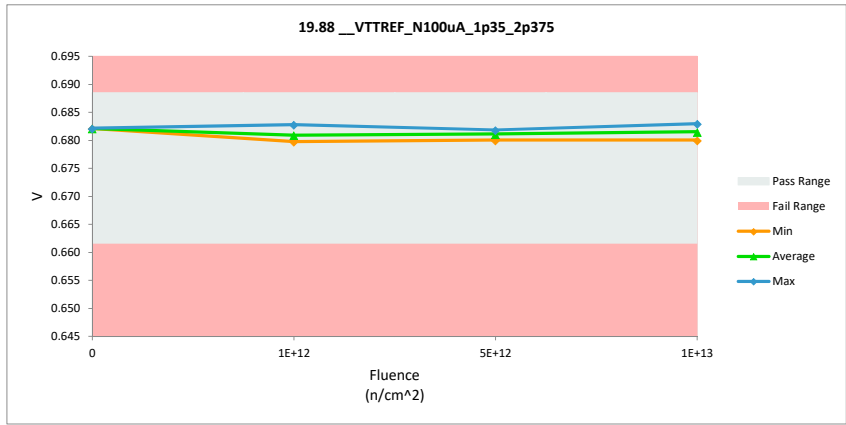
19.88_VTTREF_N100uA_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.682	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.682	0.000
Max		0.683	0.683	0.000
Average		0.681	0.681	0.000
Min		0.680	0.680	0.000
Std Dev		0.001	0.001	0.000



19.88_VTTREF_N100uA_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

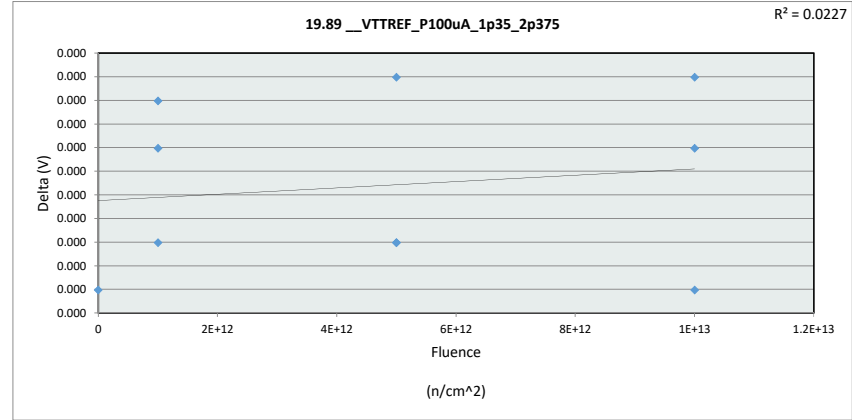
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

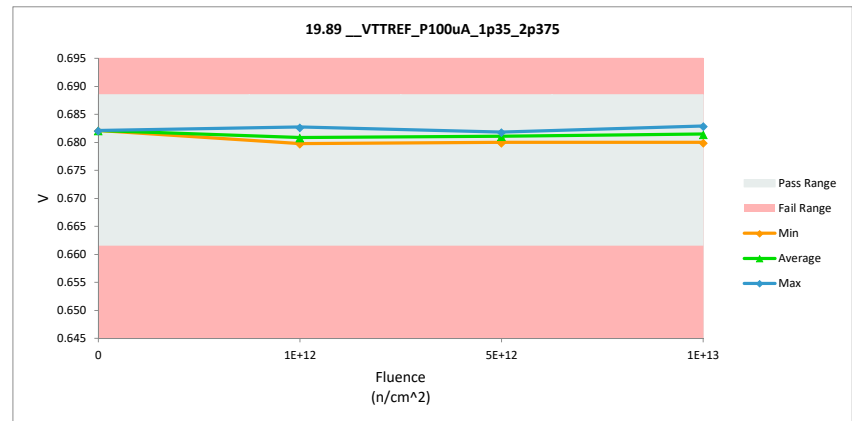
19.89_VTTREF_P100uA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
Max		0.683	0.683	0.000
Average		0.681	0.681	0.000
Min		0.680	0.680	0.000
Std Dev		0.001	0.001	0.000



19.89_VTTREF_P100uA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

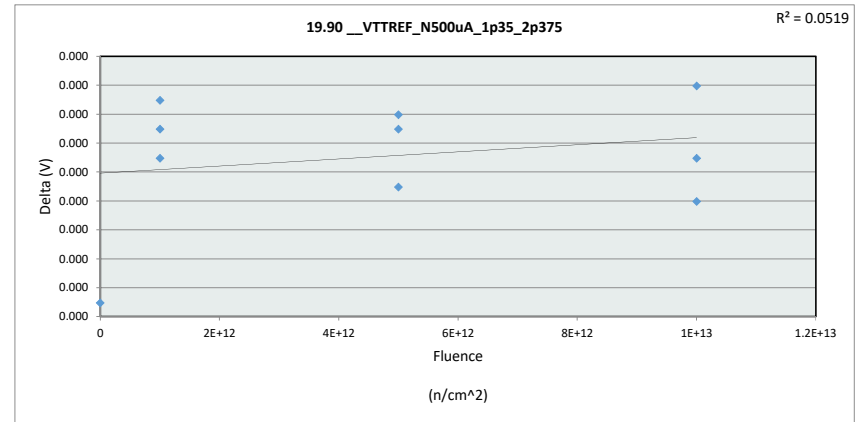
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

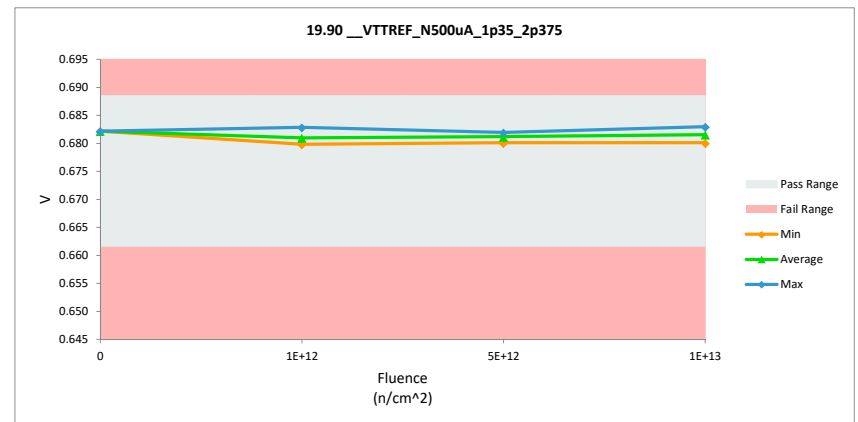
19.90_VTTREF_N500uA_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.682	0.682	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.682	0.682	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.90_VTTREF_N500uA_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

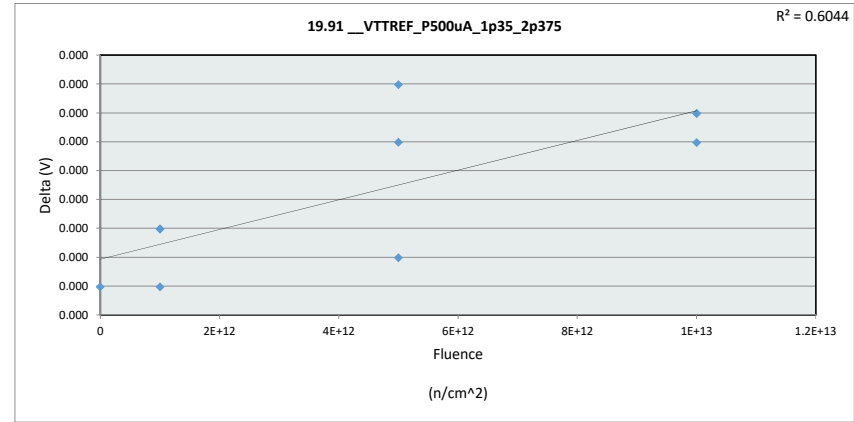
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.682
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

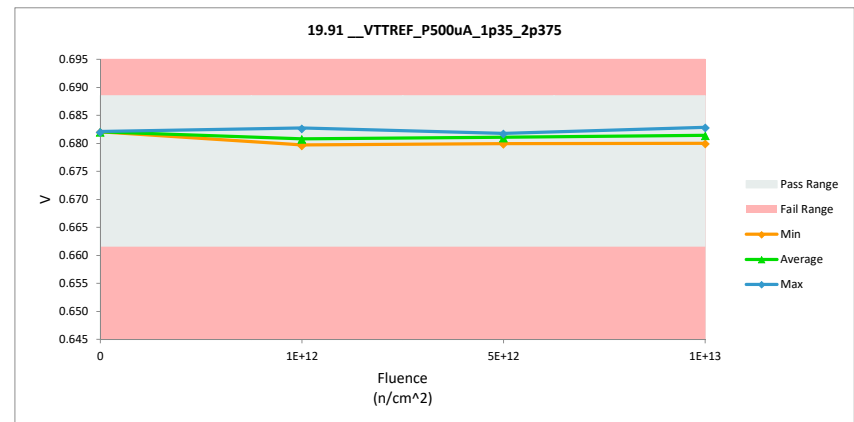
19.91_VTTREF_P500uA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.91_VTTREF_P500uA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

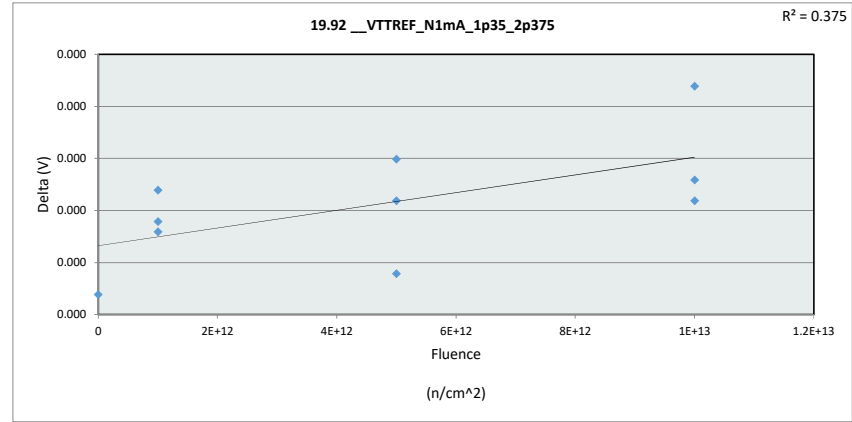
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

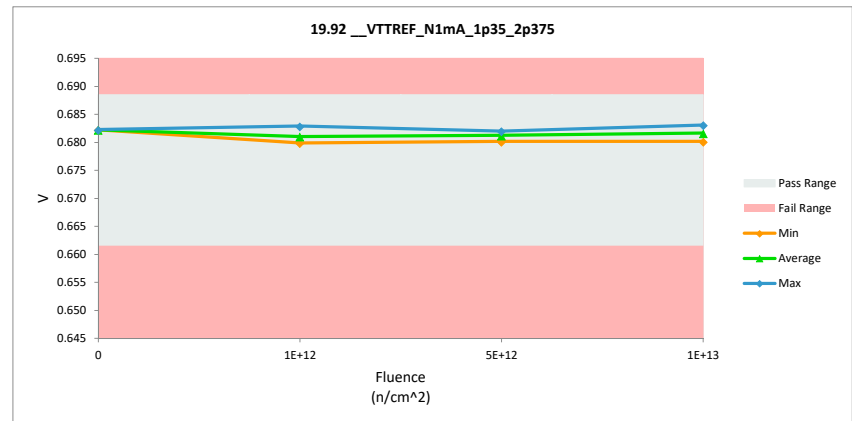
19.92_VTTREF_N1mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.682	0.682	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.682	0.682	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.92_VTTREF_N1mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

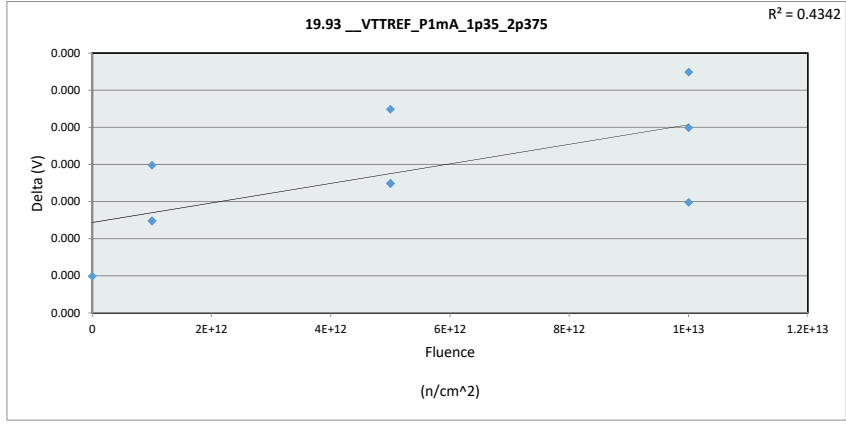
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.682
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

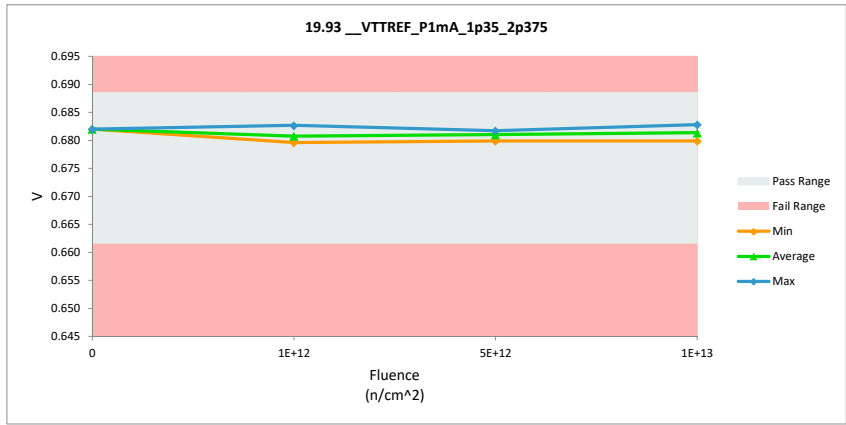
19.93_VTTREF_P1mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.93_VTTREF_P1mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

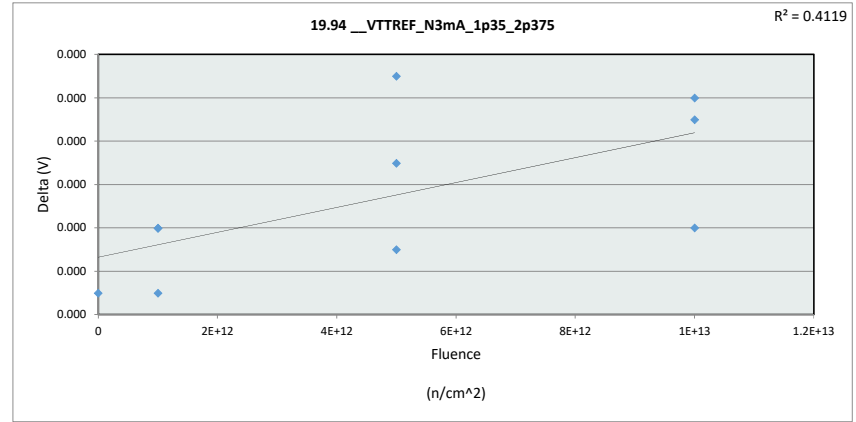
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.680	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

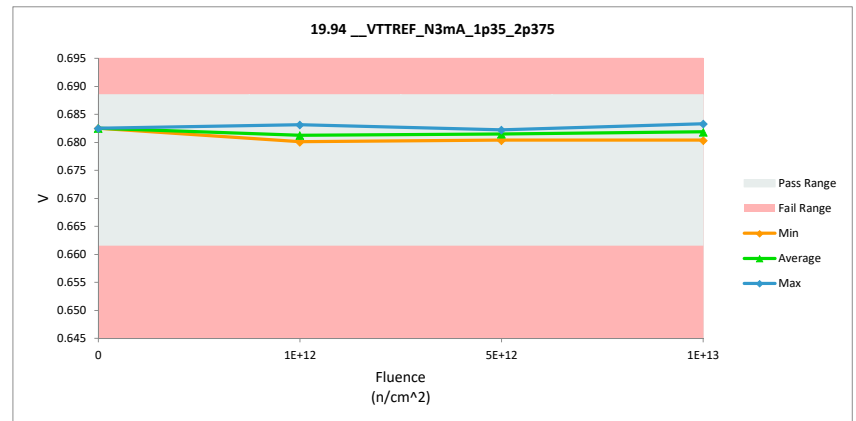
19.94_VTTREF_N3mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.6885
Min Limit	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.683	0.683	0.000
1E+12	2	0.681	0.681	0.000
1E+12	3	0.680	0.680	0.000
1E+12	4	0.683	0.683	0.000
5E+12	5	0.682	0.682	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.682	0.682	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.682	0.682	0.000
	Max	0.683	0.683	0.000
	Average	0.682	0.682	0.000
	Min	0.680	0.680	0.000
	Std Dev	0.001	0.001	0.000



19.94_VTTREF_N3mA_1p35_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.6885
Min Limit	0.6615

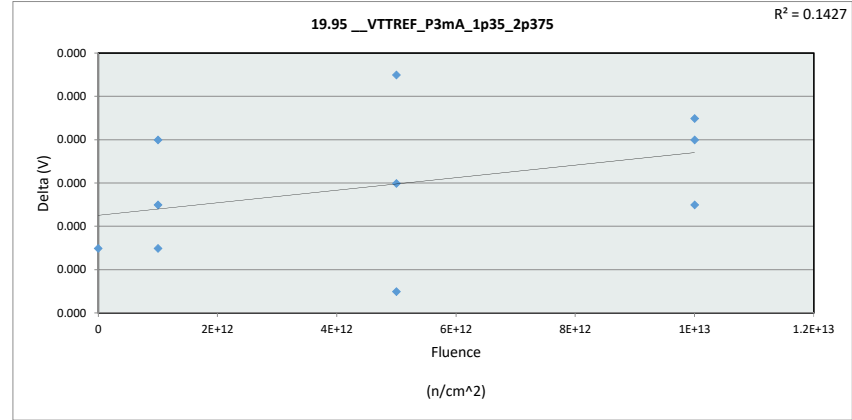
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.683	0.680	0.680	0.680
Average	0.683	0.681	0.681	0.682
Max	0.683	0.683	0.682	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

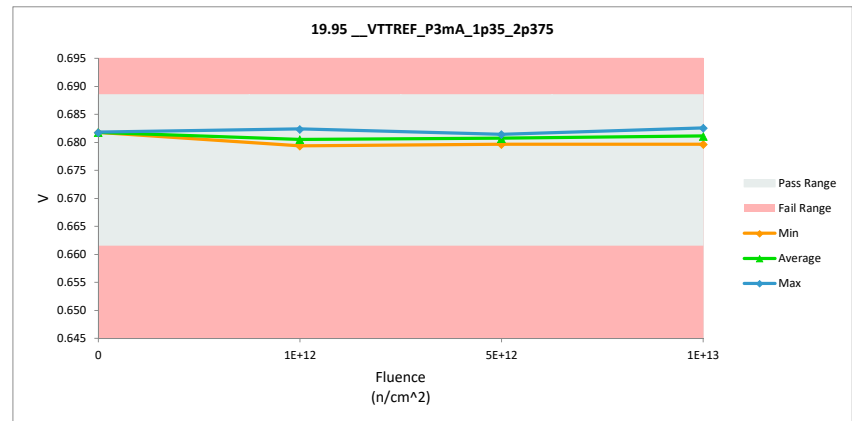
19.95_VTTREF_P3mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.6885	0.6885
Min Limit	0.6615	0.6615

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.682	0.682	0.000
1E+12	2	0.680	0.680	0.000
1E+12	3	0.679	0.679	0.000
1E+12	4	0.682	0.682	0.000
5E+12	5	0.681	0.681	0.000
5E+12	6	0.680	0.680	0.000
5E+12	7	0.681	0.681	0.000
1E+13	8	0.683	0.683	0.000
1E+13	9	0.680	0.680	0.000
1E+13	10	0.681	0.681	0.000
	Max	0.683	0.683	0.000
	Average	0.681	0.681	0.000
	Min	0.679	0.679	0.000
	Std Dev	0.001	0.001	0.000



19.95_VTTREF_P3mA_1p35_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.6885	V
Min Limit	0.6615	V

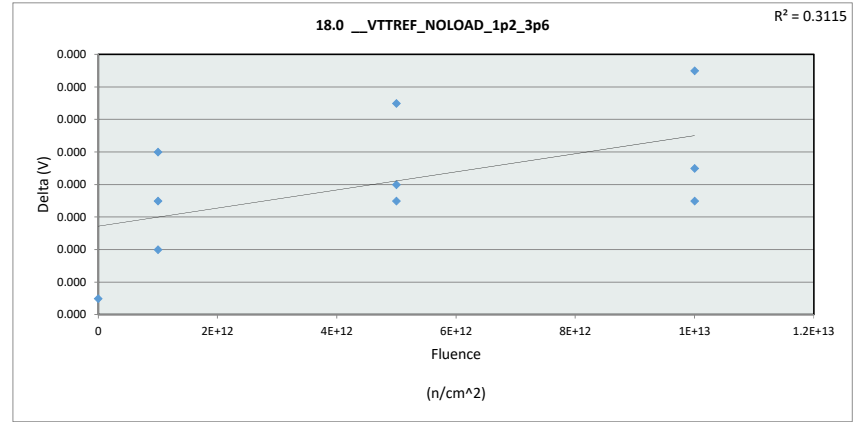
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.662	0.662	0.662	0.662
Min	0.682	0.679	0.680	0.680
Average	0.682	0.681	0.681	0.681
Max	0.682	0.682	0.681	0.683
UL	0.689	0.689	0.689	0.689



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

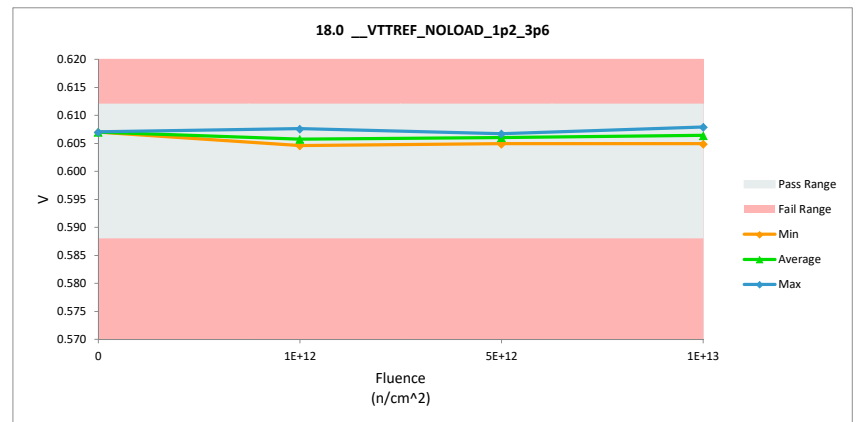
18.0 __VTTREF_NOLOAD_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



18.0 __VTTREF_NOLOAD_1p2_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

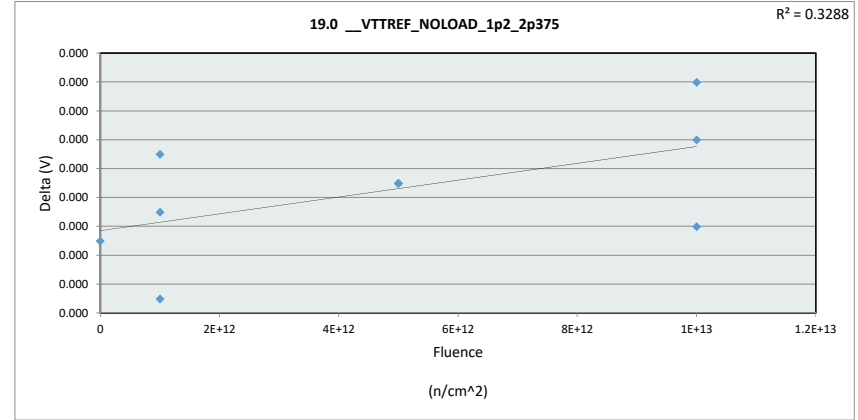
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

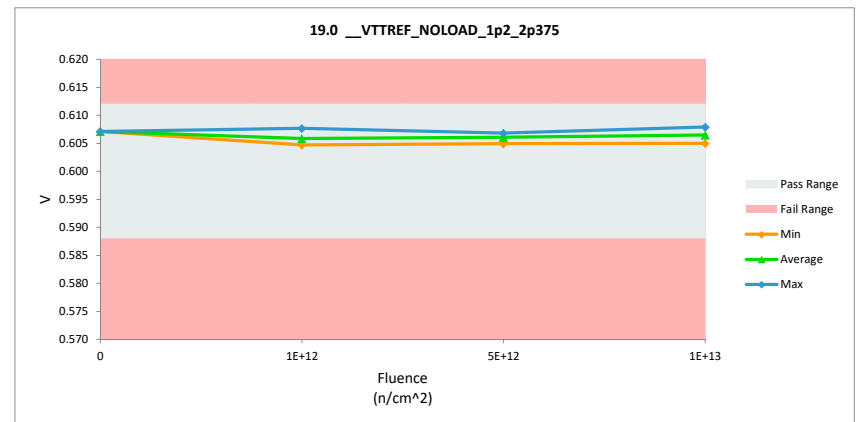
19.0 __VTTREF_NOLOAD_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.0 __VTTREF_NOLOAD_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

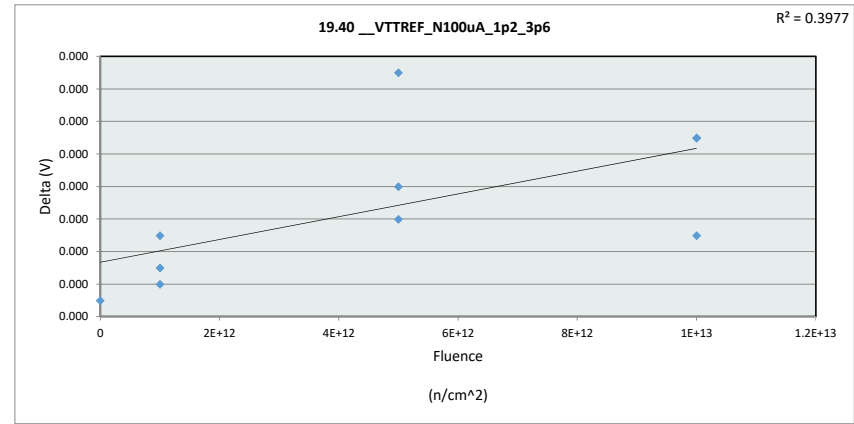
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

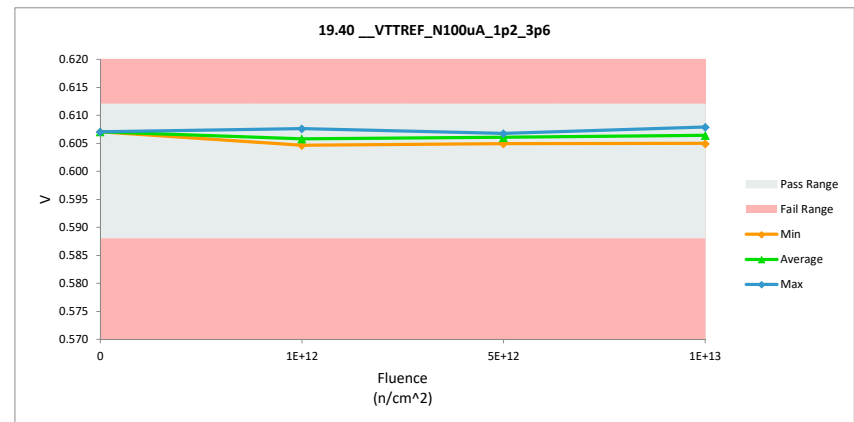
19.40_VTTREF_N100uA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.40_VTTREF_N100uA_1p2_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

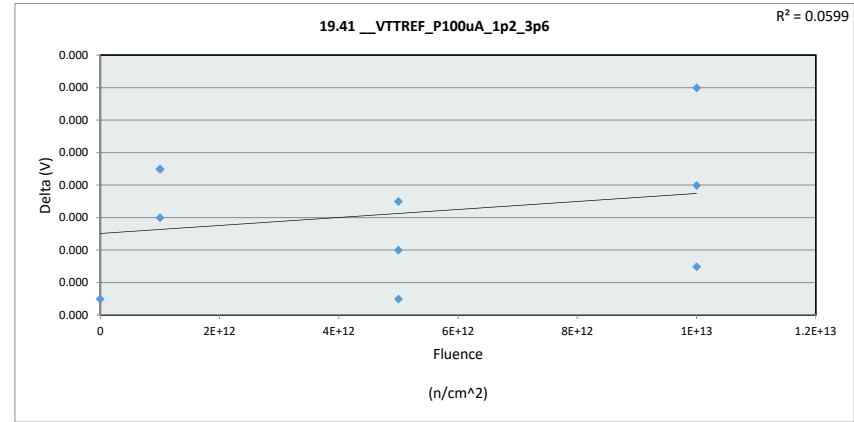
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



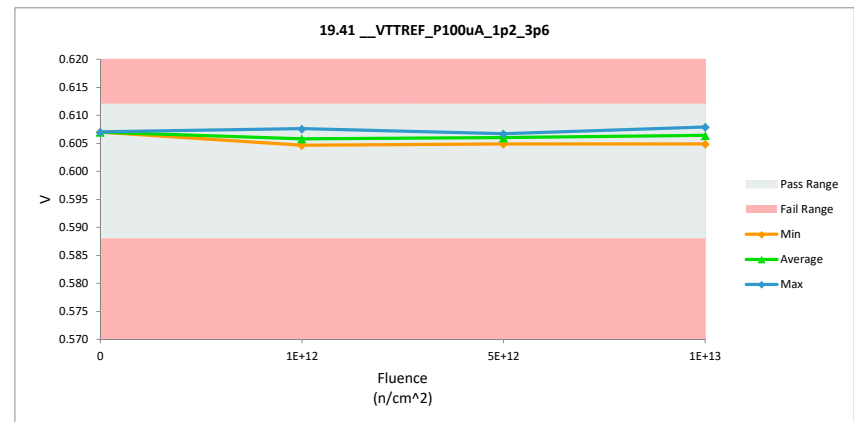
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

19.41_VTTREF_P100uA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



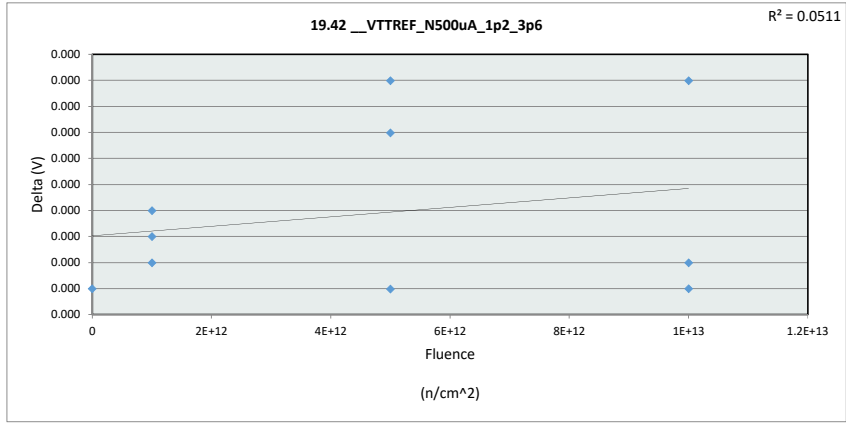
19.41_VTTREF_P100uA_1p2_3p6				
Test Site				
Tester				
Test Number				
Max Limit	0.612		V	
Min Limit	0.588		V	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



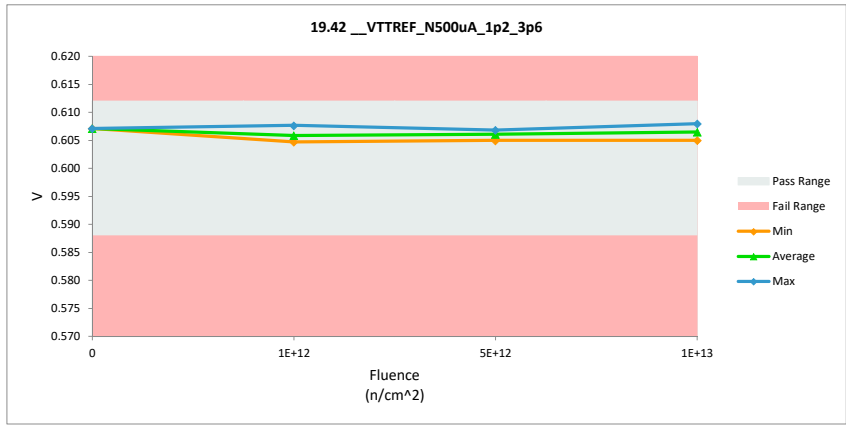
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

19.42_VTTREF_N500uA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.607	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



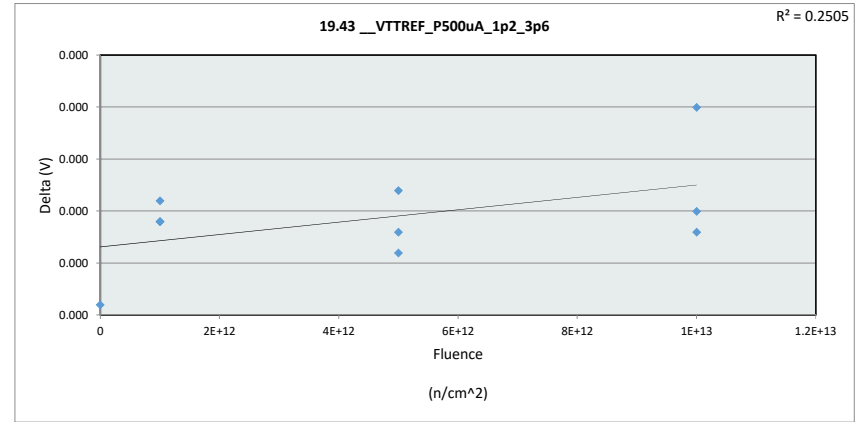
19.42_VTTREF_N500uA_1p2_3p6				
Test Site				
Tester				
Test Number				
Max Limit	0.612	V		
Min Limit	0.588	V		
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

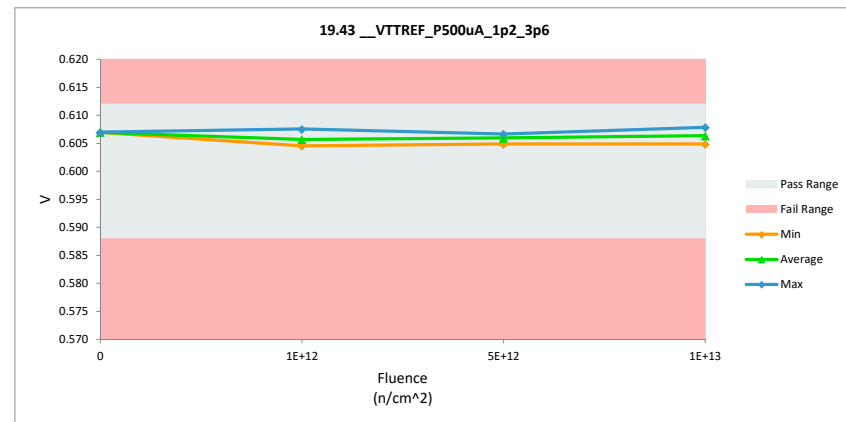
19.43_VTTREF_P500uA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.43_VTTREF_P500uA_1p2_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

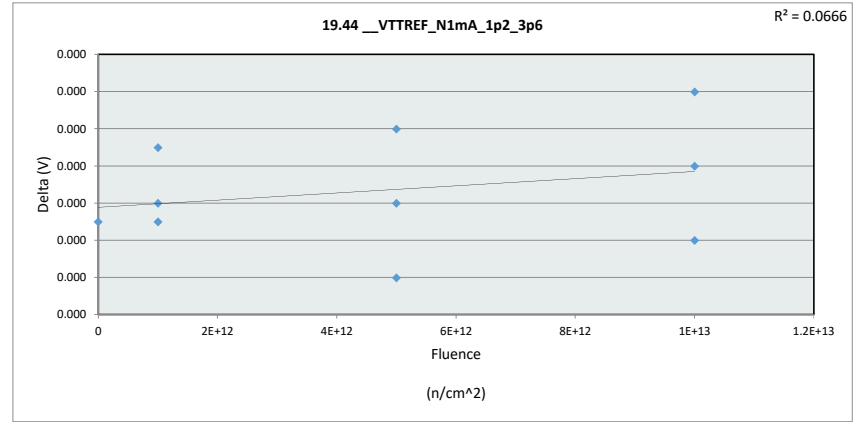
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

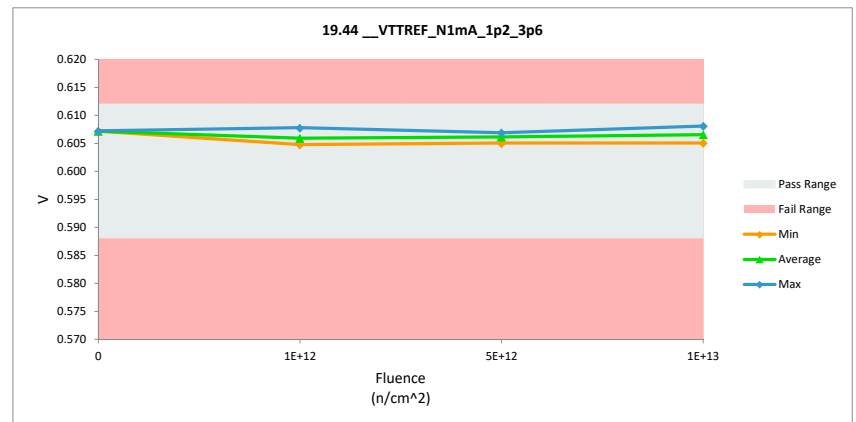
19.44_VTTREF_N1mA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.607	0.607	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.607	0.000
Max		0.608	0.608	0.000
Average		0.606	0.606	0.000
Min		0.605	0.605	0.000
Std Dev		0.001	0.001	0.000



19.44_VTTREF_N1mA_1p2_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

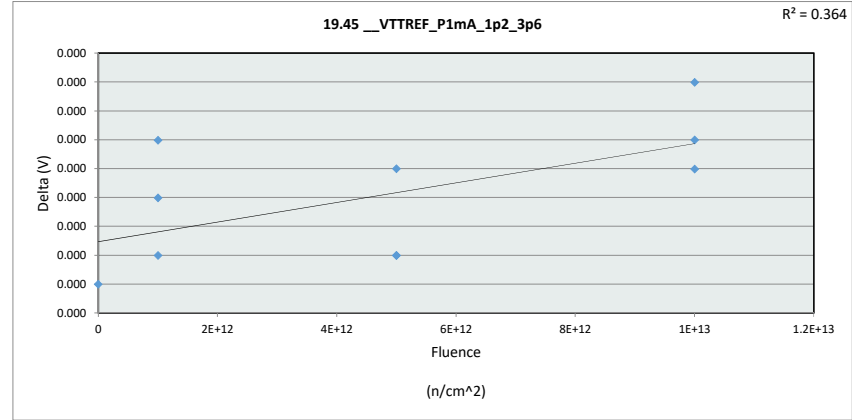
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.607
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

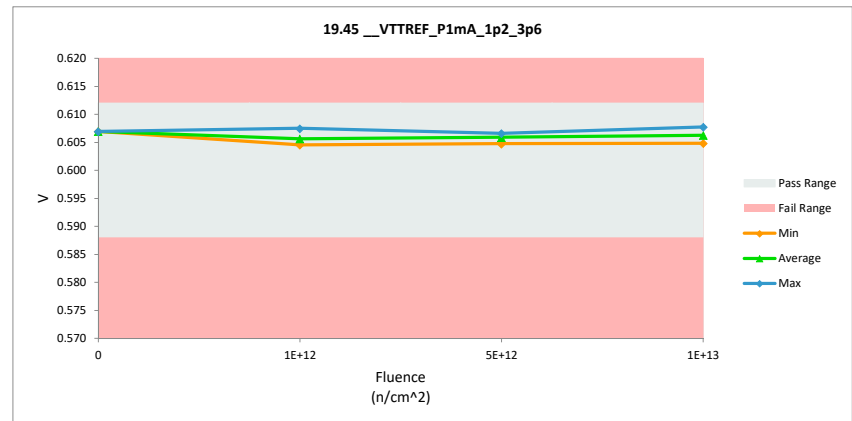
19.45_VTTREF_P1mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.612 0.612
Min Limit	0.588 0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.607	0.607	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
Max		0.608	0.608	0.000
Average		0.606	0.606	0.000
Min		0.605	0.605	0.000
Std Dev		0.001	0.001	0.000



19.45_VTTREF_P1mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.612 V
Min Limit	0.588 V

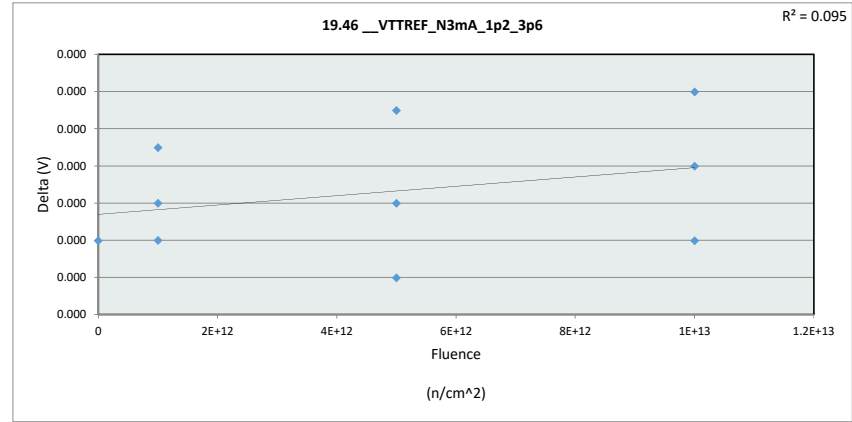
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.607	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

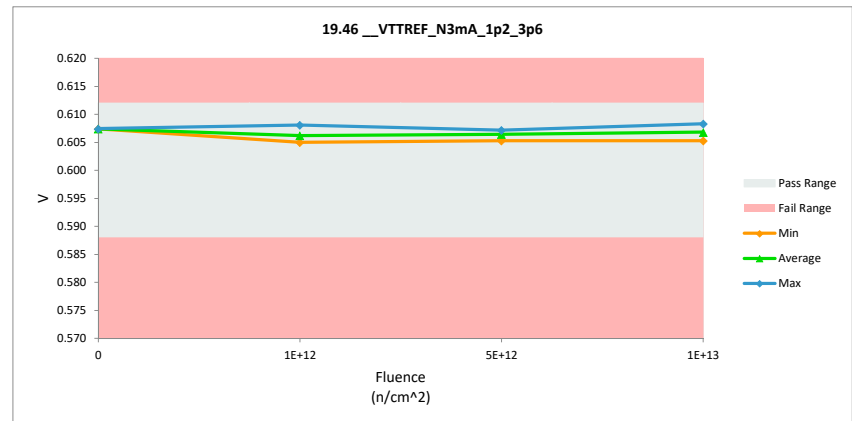
19.46_VTTREF_N3mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.612 0.612
Min Limit	0.588 0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.607	0.607	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.607	0.607	0.000
Max		0.608	0.608	0.000
Average		0.607	0.607	0.000
Min		0.605	0.605	0.000
Std Dev		0.001	0.001	0.000



19.46_VTTREF_N3mA_1p2_3p6	
Test Site	
Tester	
Test Number	
Max Limit	0.612 V
Min Limit	0.588 V

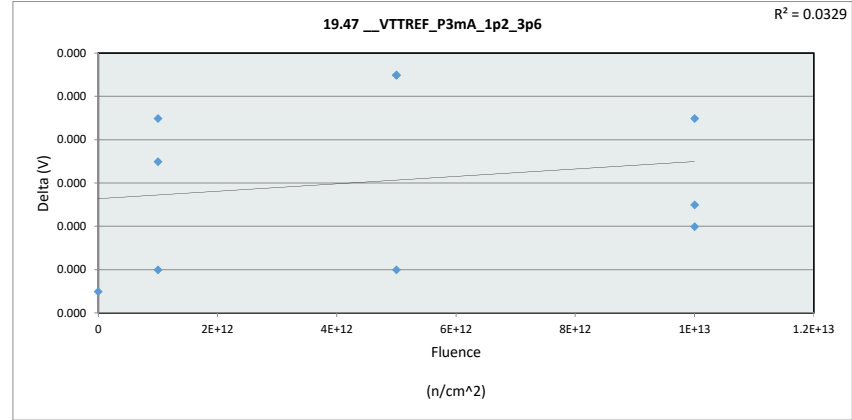
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.607
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

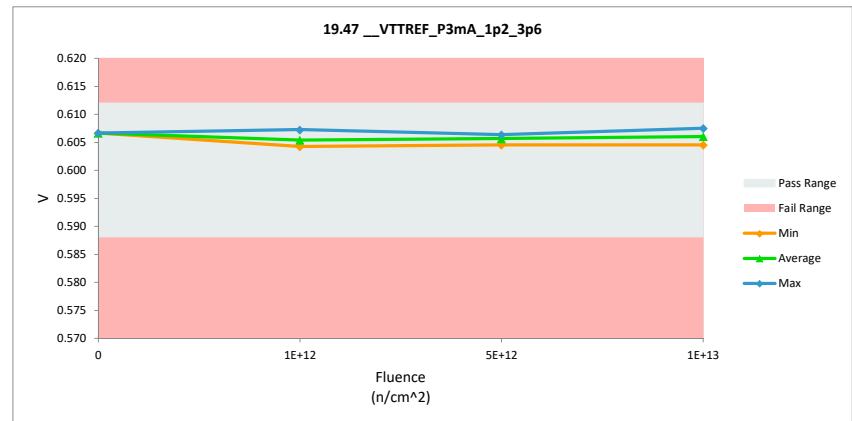
19.47 __ VTTREF_P3mA_1p2_3p6		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.604	0.604	0.000
1E+12	4	0.607	0.607	0.000
5E+12	5	0.606	0.606	0.000
5E+12	6	0.604	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.607	0.607	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.607	0.607	0.000
	Average	0.606	0.606	0.000
	Min	0.604	0.604	0.000
	Std Dev	0.001	0.001	0.000



19.47 __ VTTREF_P3mA_1p2_3p6		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

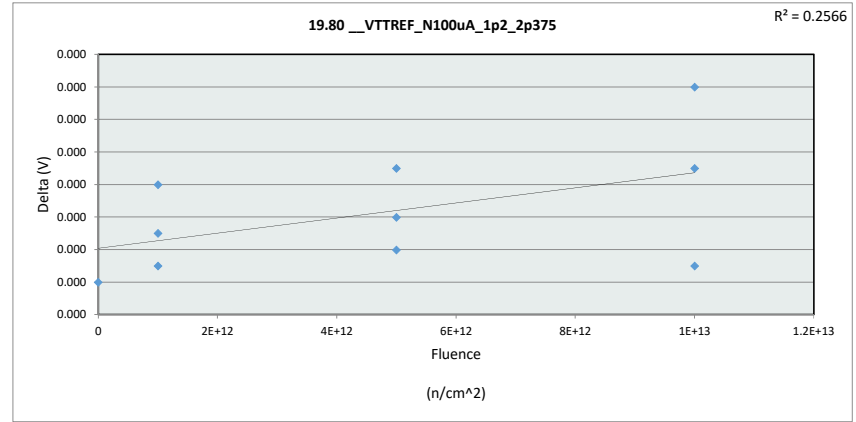
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.604	0.605	0.605
Average	0.607	0.605	0.606	0.606
Max	0.607	0.607	0.606	0.607
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

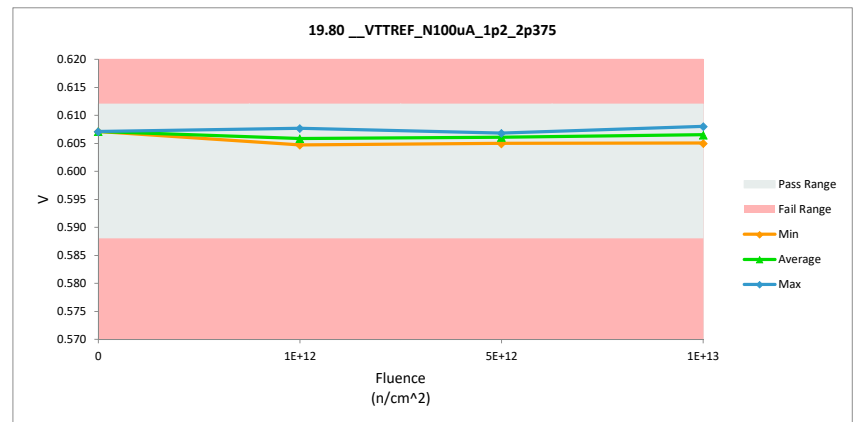
19.80_VTTREF_N100uA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.612
Min Limit	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.80_VTTREF_N100uA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.612
Min Limit	0.588

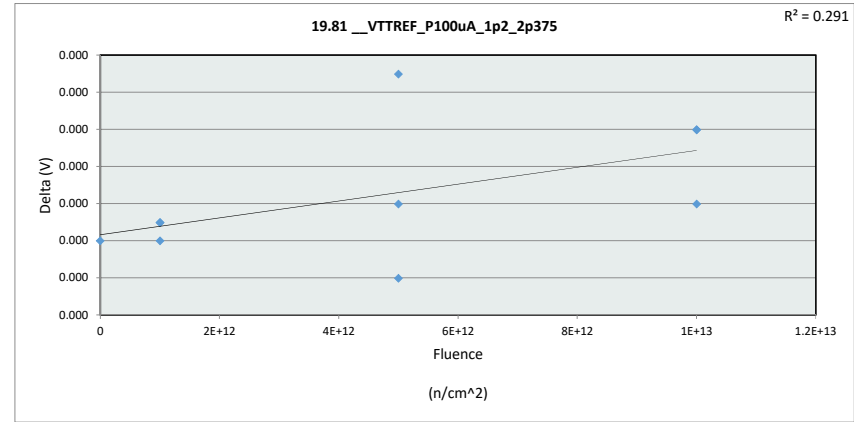
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

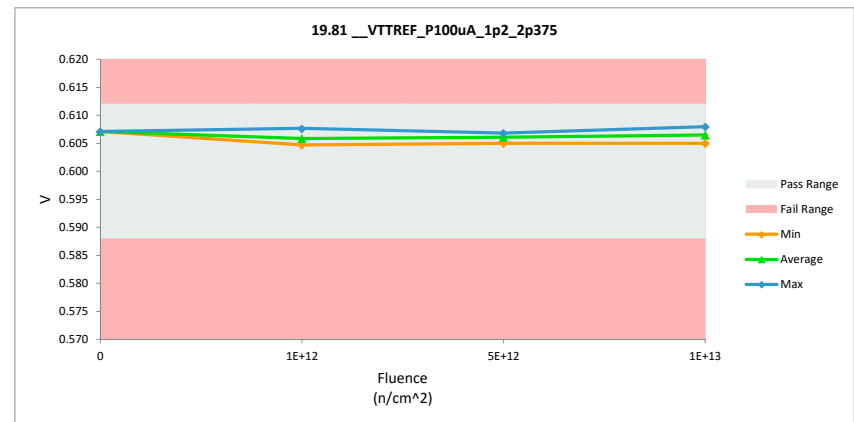
19.81_VTTREF_P100uA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.81_VTTREF_P100uA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

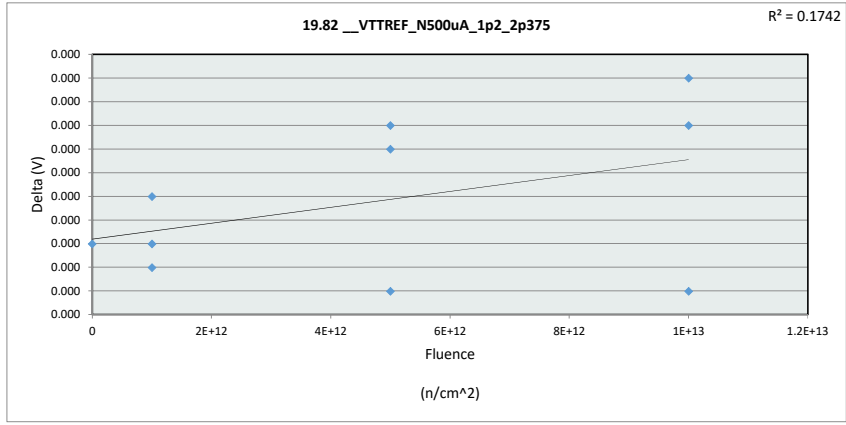
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

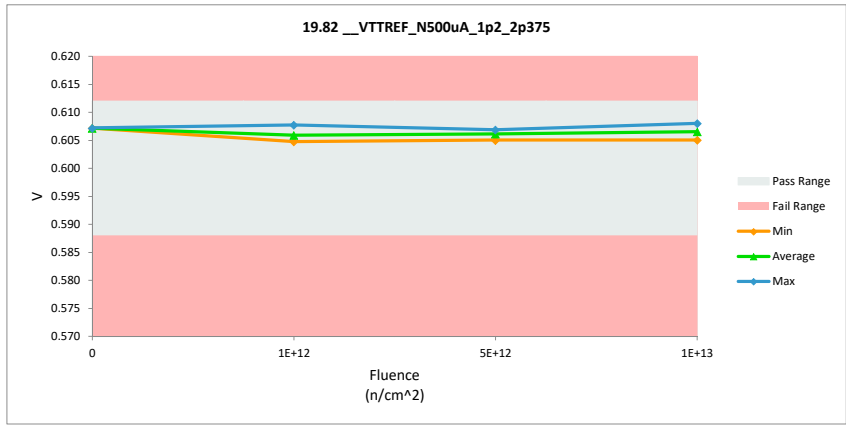
19.82_VTTREF_N500uA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.607	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.607	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.82_VTTREF_N500uA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

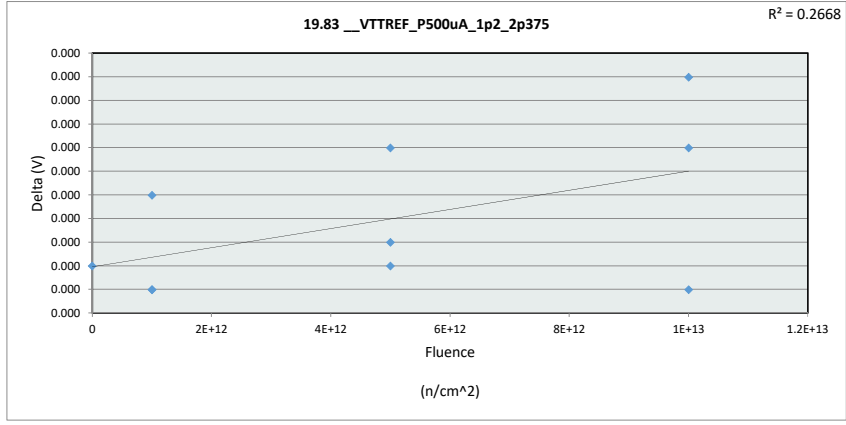
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.607
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

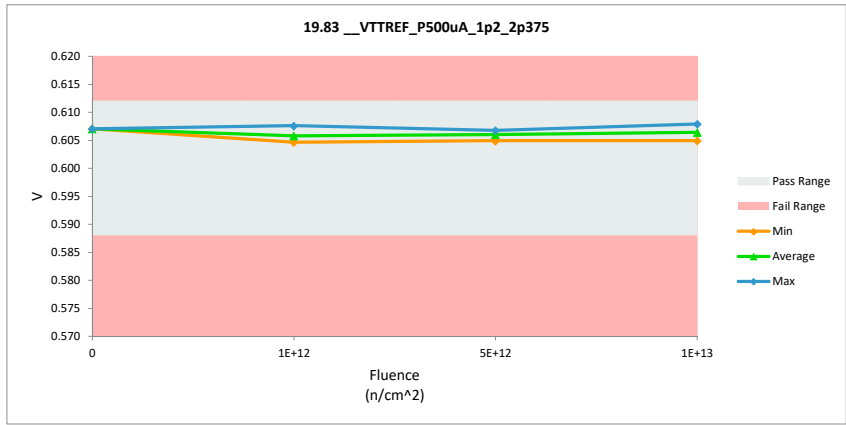
19.83_VTTREF_P500uA_1p2_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	0.612 0.612
Min Limit	0.588 0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.83_VTTREF_P500uA_1p2_2p375	
Test Site	
Tester	
Test Number	
Max Limit	0.612 V
Min Limit	0.588 V

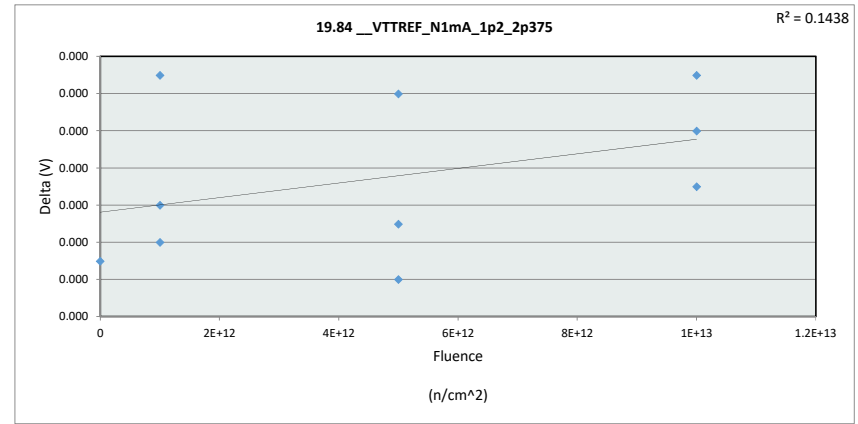
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

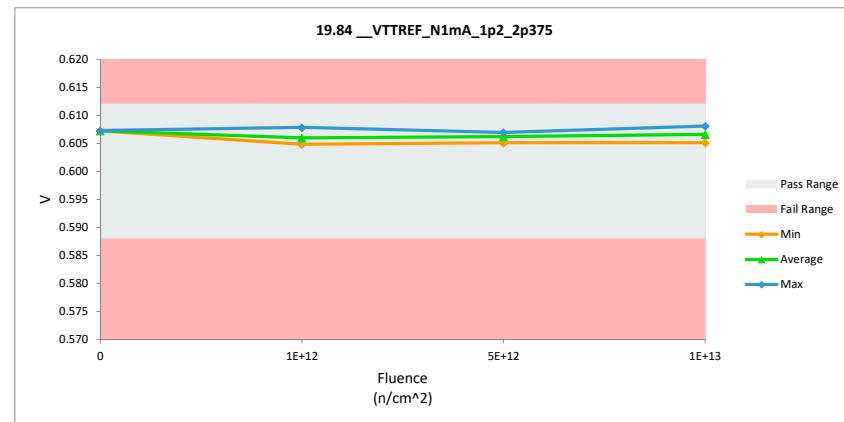
19.84_VTTREF_N1mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.607	0.607	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.607	0.607	0.000
Max		0.608	0.608	0.000
Average		0.606	0.606	0.000
Min		0.605	0.605	0.000
Std Dev		0.001	0.001	0.000



19.84_VTTREF_N1mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

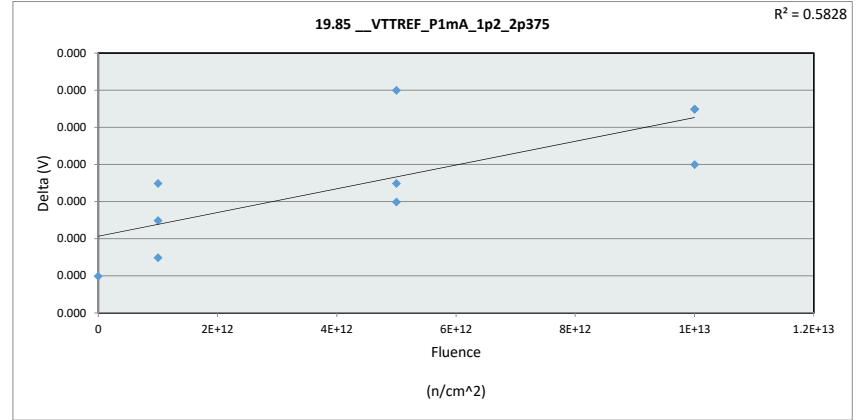
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.607
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

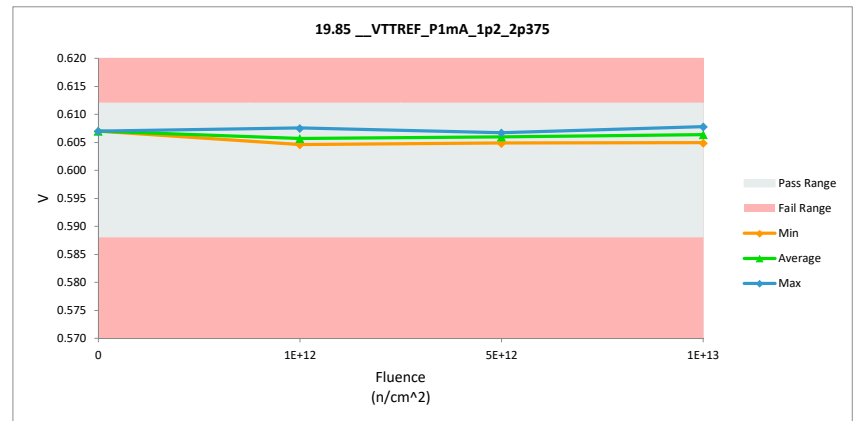
19.85_VTTREF_P1mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.608	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.85_VTTREF_P1mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

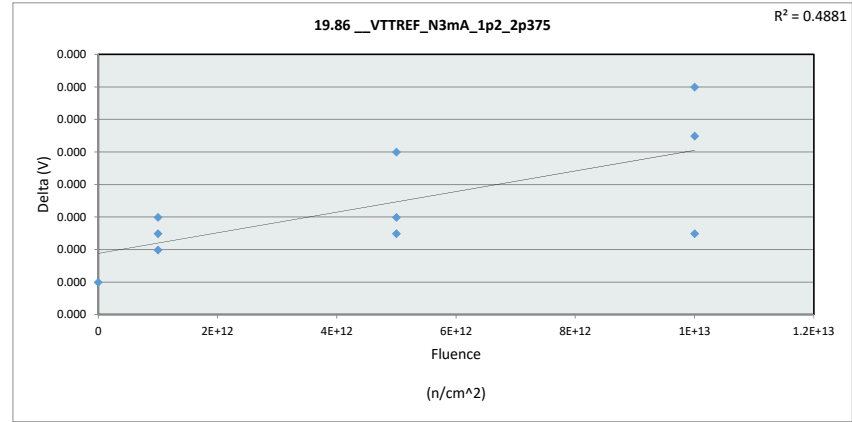
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.606
Max	0.607	0.608	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

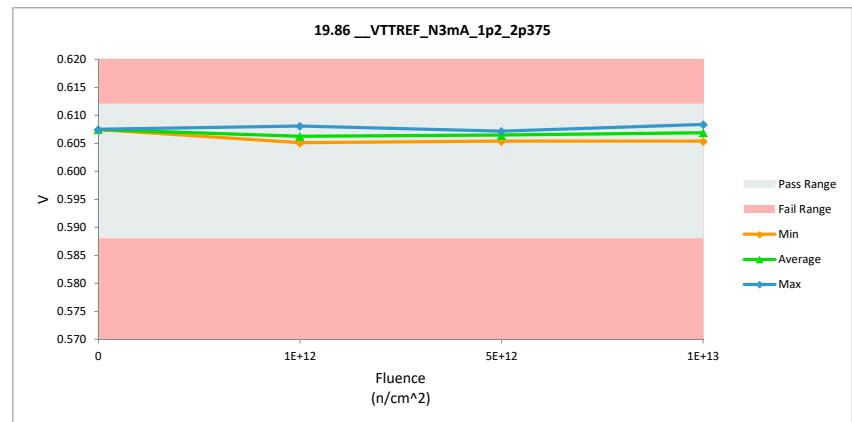
19.86_VTTREF_N3mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.608	0.607	0.000
1E+12	2	0.606	0.606	0.000
1E+12	3	0.605	0.605	0.000
1E+12	4	0.608	0.608	0.000
5E+12	5	0.607	0.607	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.607	0.607	0.000
1E+13	8	0.608	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.607	0.607	0.000
	Max	0.608	0.608	0.000
	Average	0.607	0.607	0.000
	Min	0.605	0.605	0.000
	Std Dev	0.001	0.001	0.000



19.86_VTTREF_N3mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

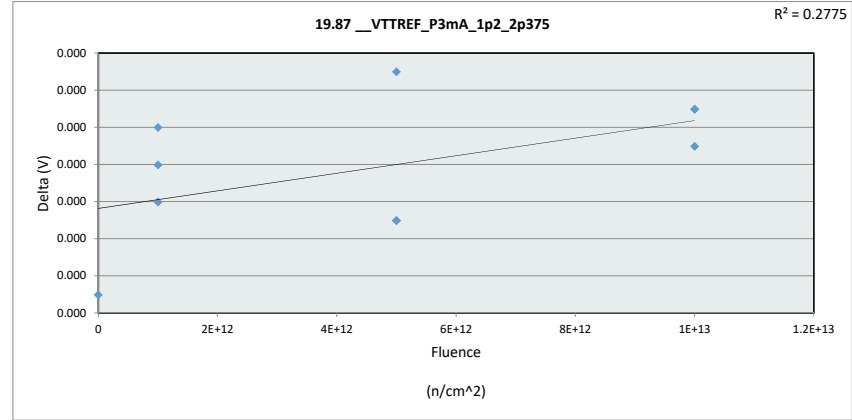
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.605	0.605	0.605
Average	0.607	0.606	0.606	0.607
Max	0.607	0.606	0.607	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

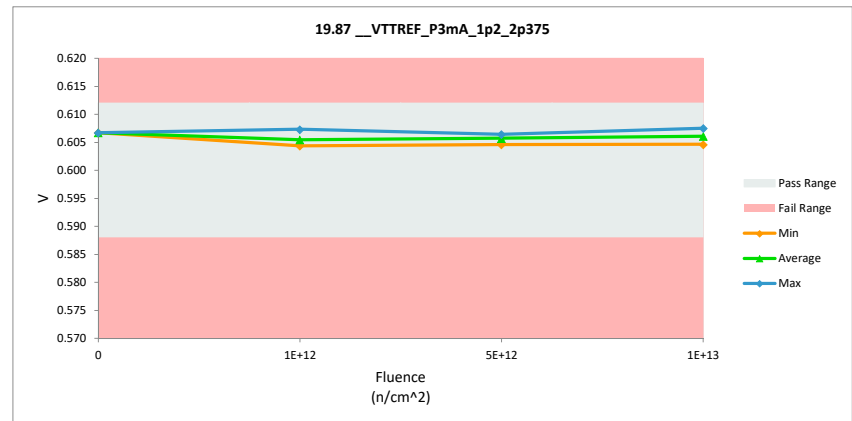
19.87 __ VTTREF_P3mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.612	0.612
Min Limit	0.588	0.588

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.607	0.607	0.000
1E+12	2	0.605	0.605	0.000
1E+12	3	0.604	0.604	0.000
1E+12	4	0.607	0.607	0.000
5E+12	5	0.606	0.606	0.000
5E+12	6	0.605	0.605	0.000
5E+12	7	0.606	0.606	0.000
1E+13	8	0.607	0.608	0.000
1E+13	9	0.605	0.605	0.000
1E+13	10	0.606	0.606	0.000
	Max	0.607	0.608	0.000
	Average	0.606	0.606	0.000
	Min	0.604	0.604	0.000
	Std Dev	0.001	0.001	0.000



19.87 __ VTTREF_P3mA_1p2_2p375		
Test Site		
Tester		
Test Number		
Max Limit	0.612	V
Min Limit	0.588	V

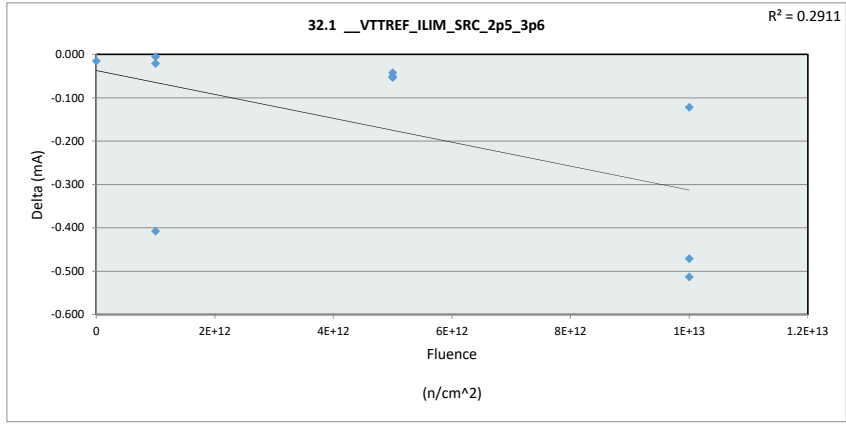
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.588	0.588	0.588	0.588
Min	0.607	0.604	0.605	0.605
Average	0.607	0.605	0.606	0.606
Max	0.607	0.605	0.606	0.608
UL	0.612	0.612	0.612	0.612



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

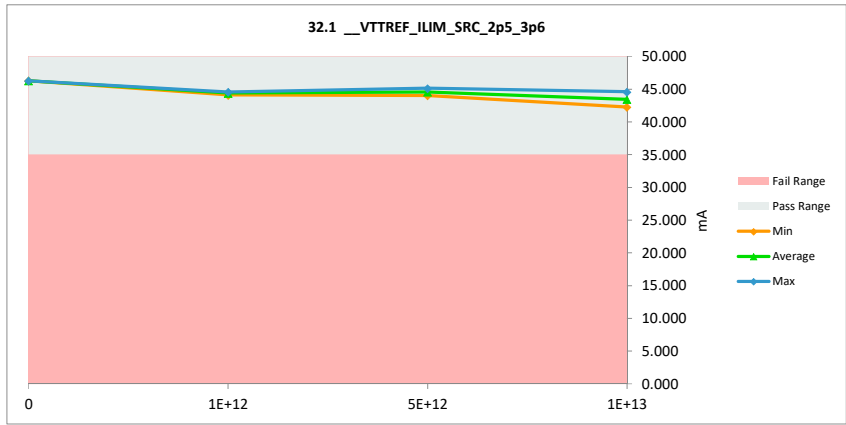
32.1 __VTTREF_ILIM_SRC_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	35 35

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	46.312	46.298	-0.014
1E+12	2	44.582	44.577	-0.005
1E+12	3	44.518	44.498	-0.020
1E+12	4	44.496	44.090	-0.407
5E+12	5	45.185	45.132	-0.053
5E+12	6	44.090	44.040	-0.050
5E+12	7	44.580	44.538	-0.042
1E+13	8	42.391	42.269	-0.122
1E+13	9	45.096	44.584	-0.513
1E+13	10	43.952	43.482	-0.471
	Max	46.312	46.298	-0.005
	Average	44.520	44.351	-0.170
	Min	42.391	42.269	-0.513
	Std Dev	1.002	1.045	0.207



32.1 __VTTREF_ILIM_SRC_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	35 mA

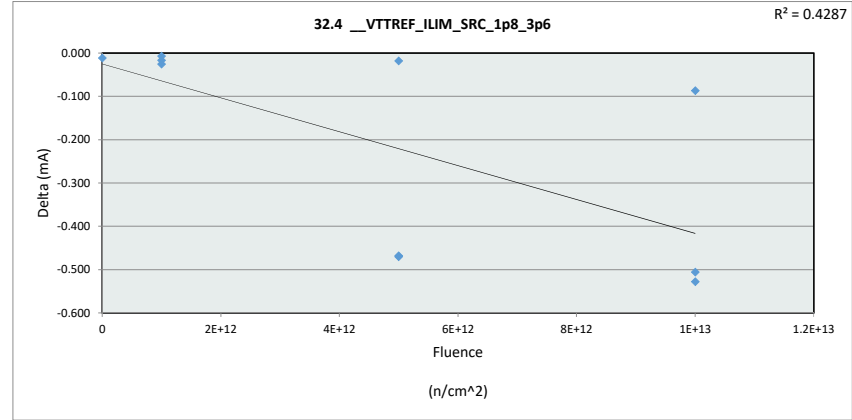
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	35.000	35.000	35.000	35.000
Min	46.298	44.090	44.040	42.269
Average	46.298	44.388	44.570	43.445
Max	46.298	44.577	45.132	44.584
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

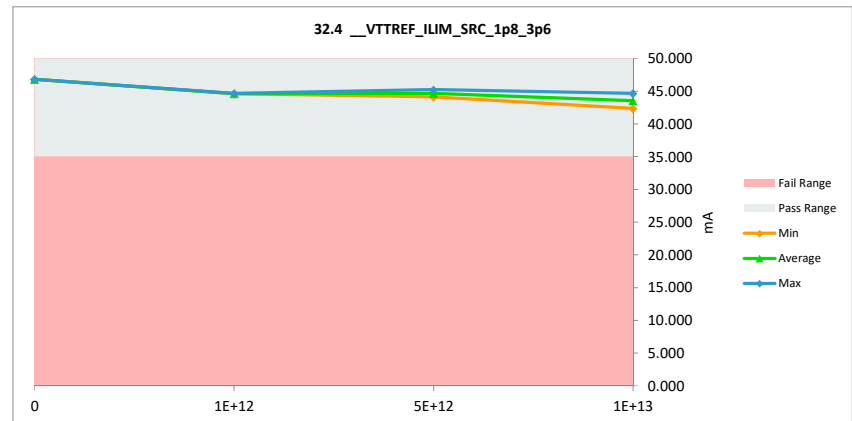
32.4 __VTTREF_ILIM_SRC_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	35 35

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	46.822	46.811	-0.011
1E+12	2	44.671	44.665	-0.006
1E+12	3	44.633	44.618	-0.016
1E+12	4	44.618	44.593	-0.025
5E+12	5	45.695	45.226	-0.469
5E+12	6	44.593	44.125	-0.468
5E+12	7	44.669	44.652	-0.017
1E+13	8	42.467	42.381	-0.086
1E+13	9	45.199	44.672	-0.527
1E+13	10	44.072	43.567	-0.505
	Max	46.822	46.811	-0.006
	Average	44.744	44.531	-0.213
	Min	42.467	42.381	-0.527
	Std Dev	1.112	1.128	0.242



32.4 __VTTREF_ILIM_SRC_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	35 mA

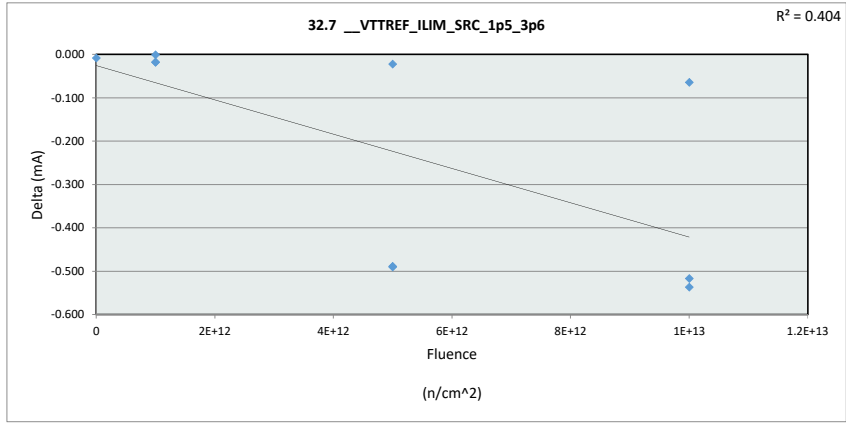
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	35.000	35.000	35.000	35.000
Min	46.811	44.593	44.125	42.381
Average	46.811	44.625	44.668	43.540
Max	46.811	44.665	45.226	44.672
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

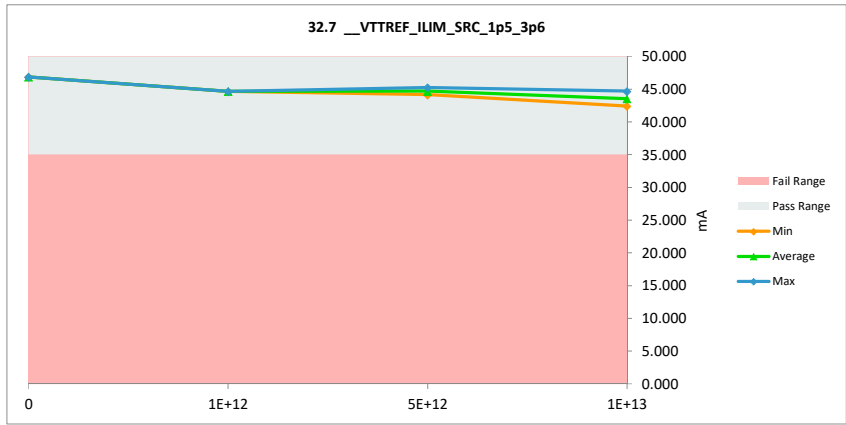
32.7 __VTTREF_ILIM_SRC_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	35 35

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	46.868	46.861	-0.008
1E+12	2	44.694	44.694	0.000
1E+12	3	44.671	44.654	-0.017
1E+12	4	44.663	44.646	-0.017
5E+12	5	45.743	45.255	-0.488
5E+12	6	44.640	44.150	-0.489
5E+12	7	44.699	44.677	-0.022
1E+13	8	42.492	42.428	-0.064
1E+13	9	45.235	44.699	-0.536
1E+13	10	44.111	43.595	-0.516
	Max	46.868	46.861	0.000
	Average	44.782	44.566	-0.216
	Min	42.492	42.428	-0.536
	Std Dev	1.117	1.130	0.252



32.7 __VTTREF_ILIM_SRC_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	35 mA

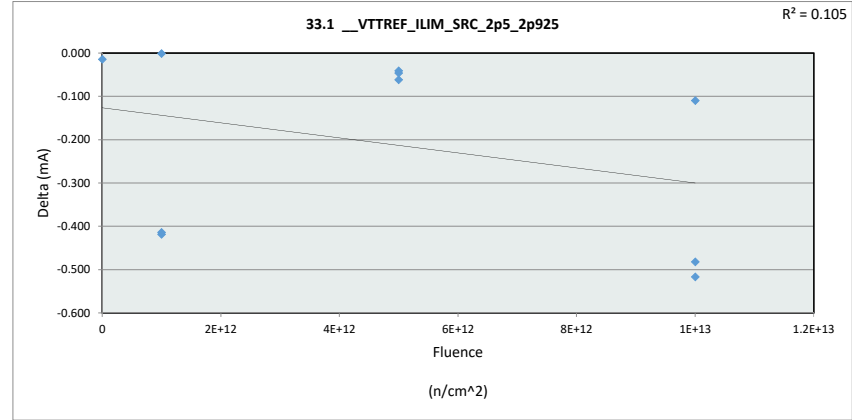
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	35.000	35.000	35.000	35.000
Min	46.861	44.646	44.150	42.428
Average	46.861	44.665	44.694	43.574
Max	46.861	44.694	45.255	44.699
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

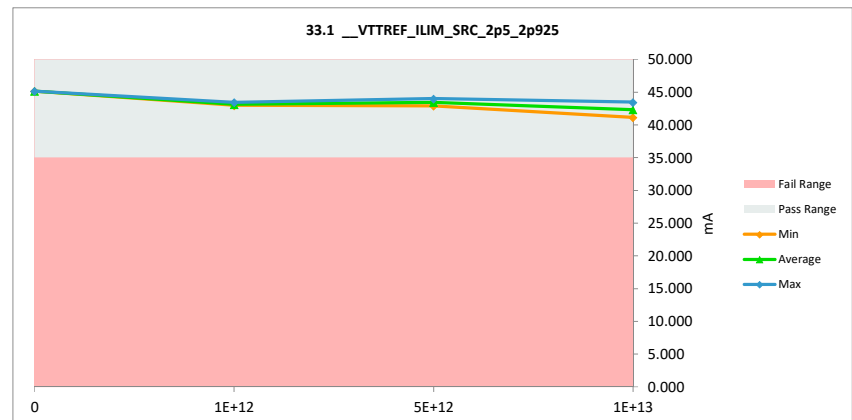
33.1 __VTTREF_ILIM_SRC_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	35 35

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	45.159	45.145	-0.014
1E+12	2	43.444	43.444	0.000
1E+12	3	43.380	42.967	-0.413
1E+12	4	43.390	42.972	-0.418
5E+12	5	44.054	43.993	-0.061
5E+12	6	42.953	42.908	-0.045
5E+12	7	43.438	43.397	-0.041
1E+13	8	41.265	41.156	-0.109
1E+13	9	43.971	43.455	-0.516
1E+13	10	42.830	42.348	-0.482
	Max	45.159	45.145	0.000
	Average	43.388	43.179	-0.210
	Min	41.265	41.156	-0.516
	Std Dev	0.996	1.036	0.217



33.1 __VTTREF_ILIM_SRC_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	35 mA

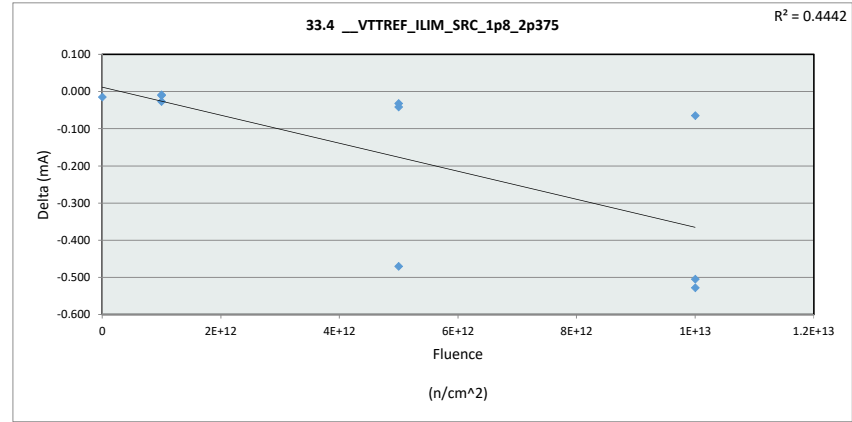
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	35.000	35.000	35.000	35.000
Min	45.145	42.967	42.908	41.156
Average	45.145	43.128	43.433	42.320
Max	45.145	43.444	43.993	43.455
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

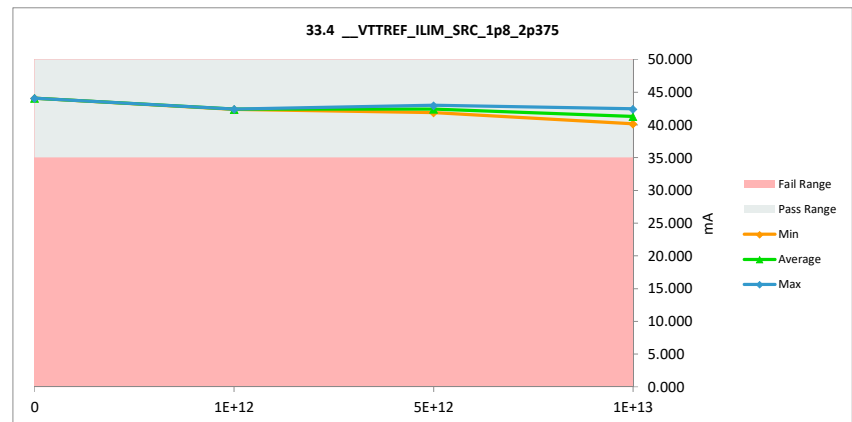
33.4 __VTTREF_ILIM_SRC_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	35 35

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	44.119	44.105	-0.014
1E+12	2	42.439	42.431	-0.008
1E+12	3	42.383	42.356	-0.027
1E+12	4	42.398	42.389	-0.009
5E+12	5	43.013	42.972	-0.041
5E+12	6	42.356	41.887	-0.469
5E+12	7	42.420	42.389	-0.031
1E+13	8	40.235	40.171	-0.064
1E+13	9	42.972	42.445	-0.527
1E+13	10	41.834	41.331	-0.504
Max		44.119	44.105	-0.008
Average		42.417	42.248	-0.169
Min		40.235	40.171	-0.527
Std Dev		0.981	1.021	0.229



33.4 __VTTREF_ILIM_SRC_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	35 mA

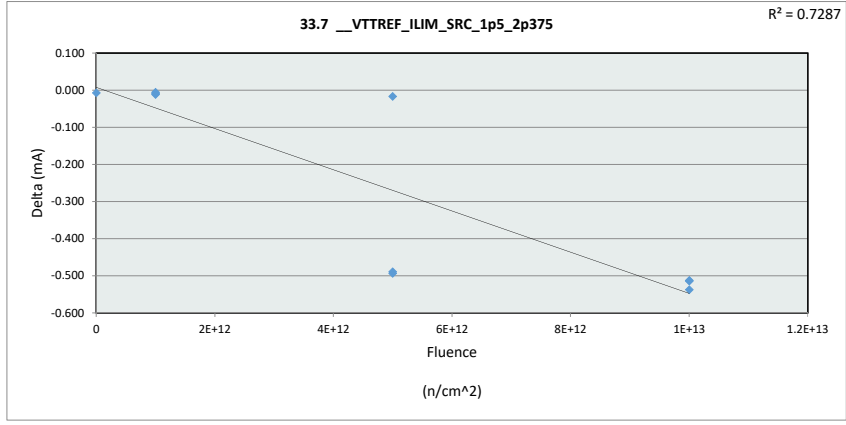
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	35.000	35.000	35.000	35.000
Min	44.105	42.356	41.887	40.171
Average	44.105	42.392	42.416	41.316
Max	44.105	42.431	42.972	42.445
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

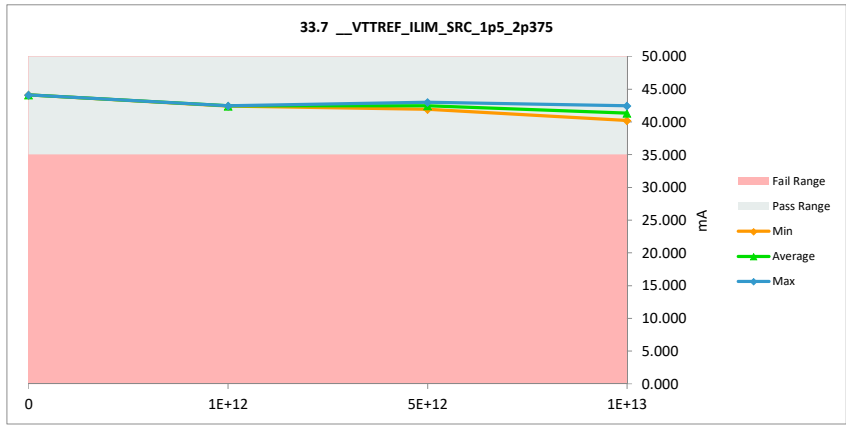
33.7 __VTTREF_ILIM_SRC_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	35 35

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	44.147	44.141	-0.006
1E+12	2	42.468	42.464	-0.005
1E+12	3	42.428	42.417	-0.011
1E+12	4	42.442	42.434	-0.008
5E+12	5	43.500	43.013	-0.488
5E+12	6	42.411	41.918	-0.493
5E+12	7	42.458	42.442	-0.016
1E+13	8	40.731	40.219	-0.511
1E+13	9	43.008	42.472	-0.536
1E+13	10	41.881	41.368	-0.513
	Max	44.147	44.141	-0.005
	Average	42.547	42.289	-0.259
	Min	40.731	40.219	-0.536
	Std Dev	0.912	1.019	0.263



33.7 __VTTREF_ILIM_SRC_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	35 mA

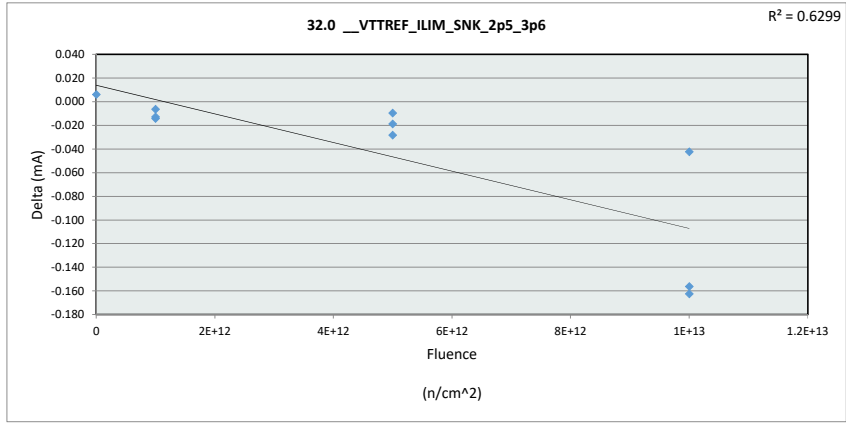
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	35.000	35.000	35.000	35.000
Min	44.141	42.417	41.918	40.219
Average	44.141	42.438	42.458	41.353
Max	44.141	42.464	43.013	42.472
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

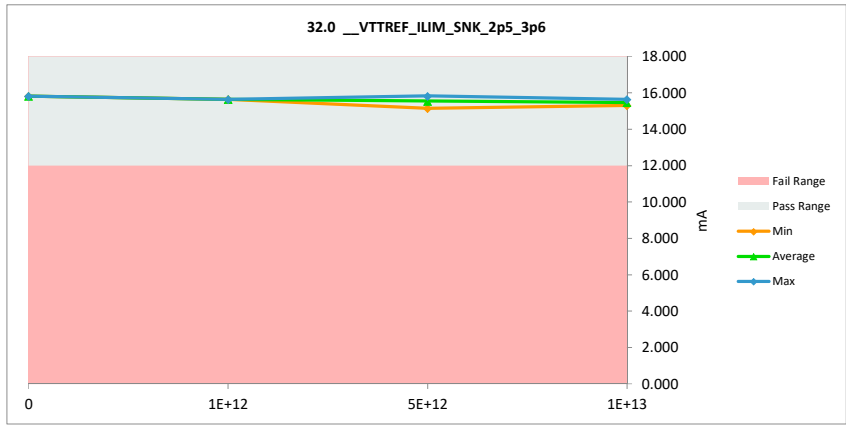
32.0 __VTTREF_ILIM_SNK_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	12 12

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.806	15.812	0.006
1E+12	2	15.644	15.638	-0.006
1E+12	3	15.655	15.642	-0.012
1E+12	4	15.652	15.638	-0.014
5E+12	5	15.856	15.828	-0.028
5E+12	6	15.167	15.148	-0.019
5E+12	7	15.653	15.644	-0.009
1E+13	8	15.460	15.304	-0.156
1E+13	9	15.803	15.641	-0.162
1E+13	10	15.499	15.457	-0.042
	Max	15.856	15.828	0.006
	Average	15.620	15.575	-0.044
	Min	15.167	15.148	-0.162
	Std Dev	0.204	0.214	0.062



32.0 __VTTREF_ILIM_SNK_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	12 mA

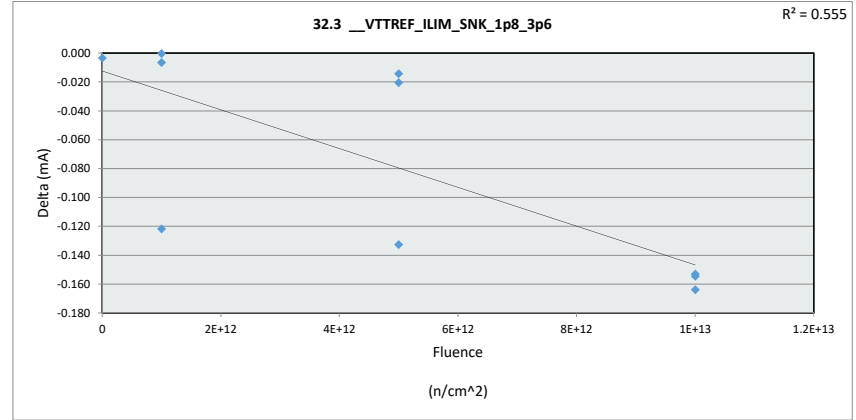
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	15.812	15.638	15.148	15.304
Average	15.812	15.639	15.540	15.467
Max	15.812	15.642	15.828	15.641
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

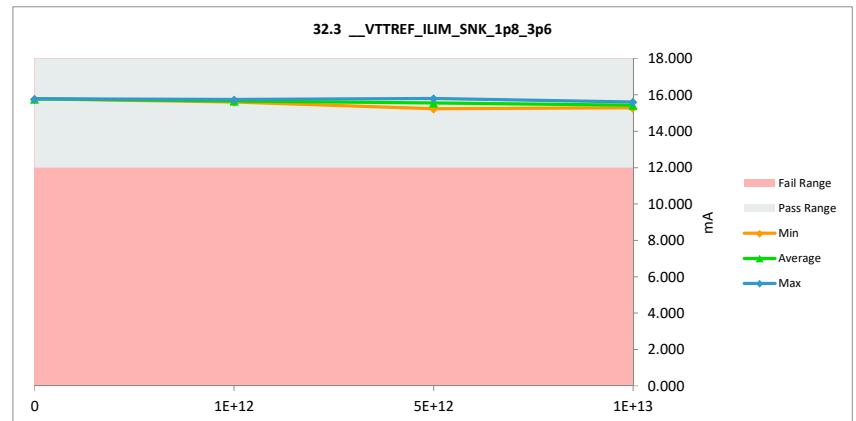
32.3 __VTTREF_ILIM_SNK_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	12 12

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.778	15.775	-0.003
1E+12	2	15.614	15.608	-0.006
1E+12	3	15.739	15.739	0.000
1E+12	4	15.731	15.610	-0.122
5E+12	5	15.815	15.795	-0.020
5E+12	6	15.251	15.237	-0.014
5E+12	7	15.741	15.608	-0.132
1E+13	8	15.431	15.278	-0.153
1E+13	9	15.773	15.610	-0.164
1E+13	10	15.583	15.429	-0.154
	Max	15.815	15.795	0.000
	Average	15.646	15.569	-0.077
	Min	15.251	15.237	-0.164
	Std Dev	0.181	0.195	0.073



32.3 __VTTREF_ILIM_SNK_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	12 mA

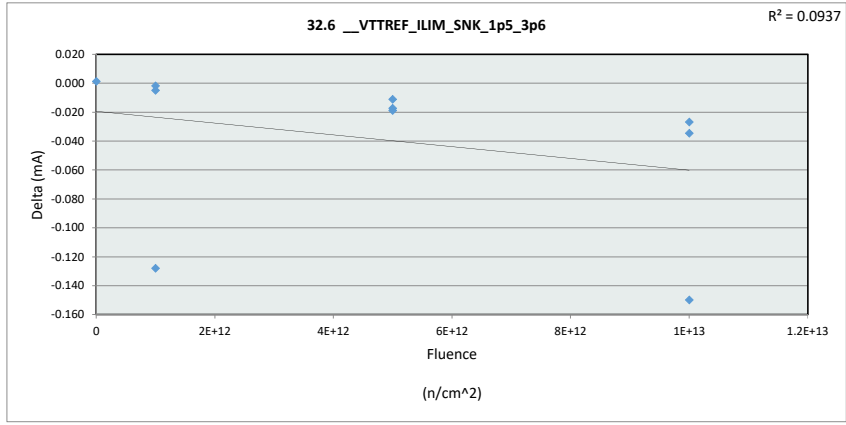
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	15.775	15.608	15.237	15.278
Average	15.775	15.652	15.547	15.439
Max	15.775	15.739	15.795	15.610
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

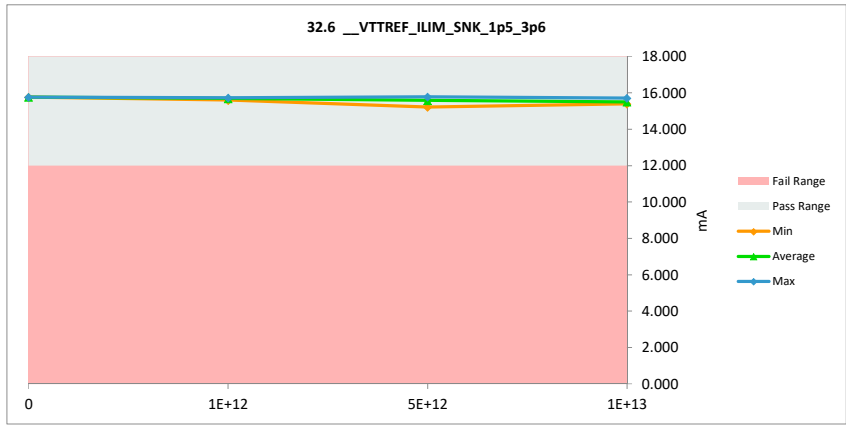
32.6 __VTTREF_ILIM_SNK_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	12 12

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.764	15.766	0.002
1E+12	2	15.725	15.597	-0.128
1E+12	3	15.728	15.727	-0.002
1E+12	4	15.725	15.720	-0.005
5E+12	5	15.803	15.784	-0.019
5E+12	6	15.240	15.223	-0.017
5E+12	7	15.734	15.724	-0.011
1E+13	8	15.418	15.392	-0.026
1E+13	9	15.756	15.722	-0.034
1E+13	10	15.564	15.415	-0.150
	Max	15.803	15.784	0.002
	Average	15.646	15.607	-0.039
	Min	15.240	15.223	-0.150
	Std Dev	0.183	0.195	0.054



32.6 __VTTREF_ILIM_SNK_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	12 mA

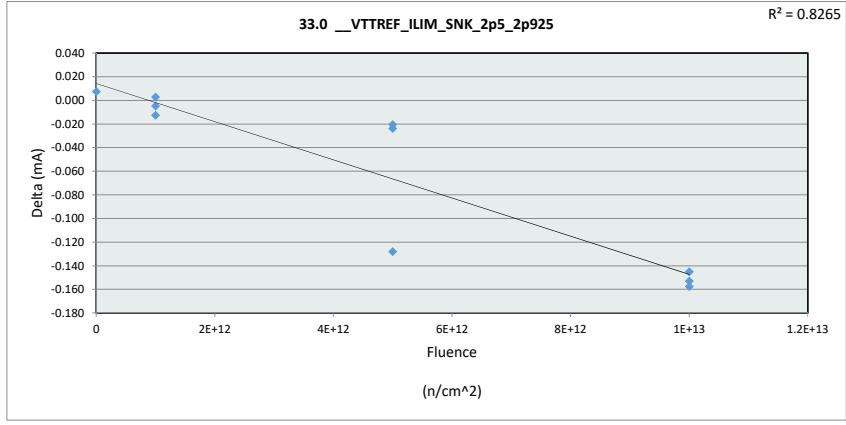
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	15.766	15.597	15.223	15.392
Average	15.766	15.681	15.577	15.509
Max	15.766	15.727	15.784	15.722
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

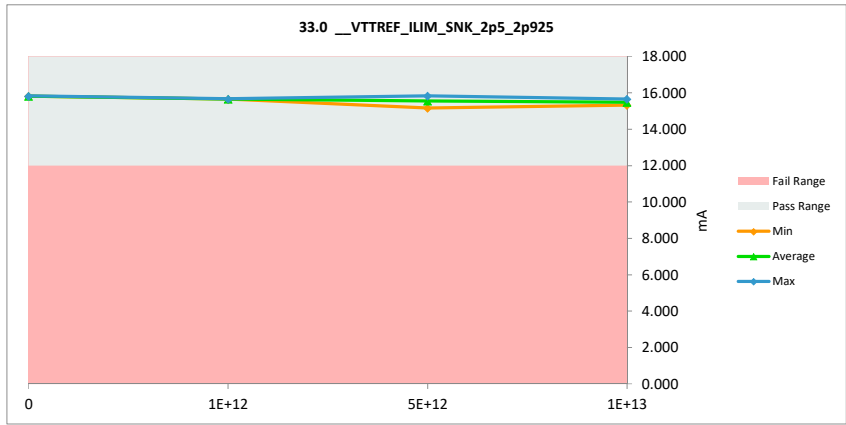
33.0 __VTTREF_ILIM_SNK_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	12 12

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.819	15.826	0.008
1E+12	2	15.650	15.646	-0.005
1E+12	3	15.664	15.667	0.003
1E+12	4	15.661	15.649	-0.012
5E+12	5	15.867	15.844	-0.023
5E+12	6	15.292	15.164	-0.128
5E+12	7	15.670	15.650	-0.020
1E+13	8	15.474	15.321	-0.153
1E+13	9	15.812	15.655	-0.157
1E+13	10	15.616	15.471	-0.145
	Max	15.867	15.844	0.008
	Average	15.653	15.589	-0.063
	Min	15.292	15.164	-0.157
	Std Dev	0.171	0.213	0.072



33.0 __VTTREF_ILIM_SNK_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	12 mA

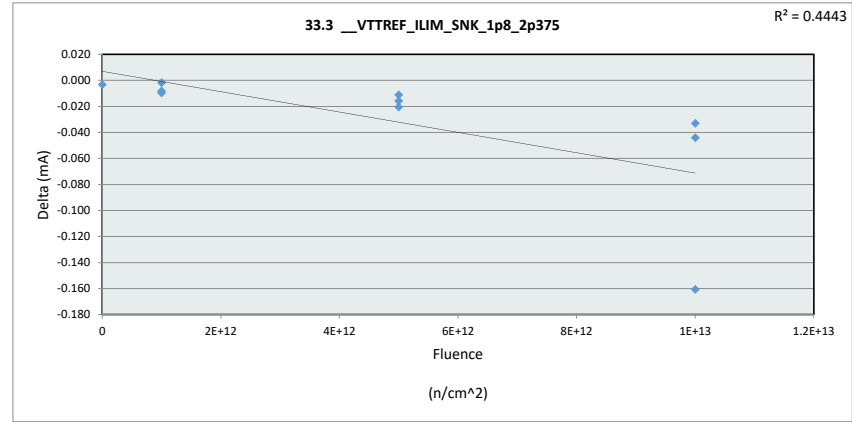
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	15.826	15.646	15.164	15.321
Average	15.826	15.654	15.553	15.482
Max	15.826	15.667	15.844	15.655
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

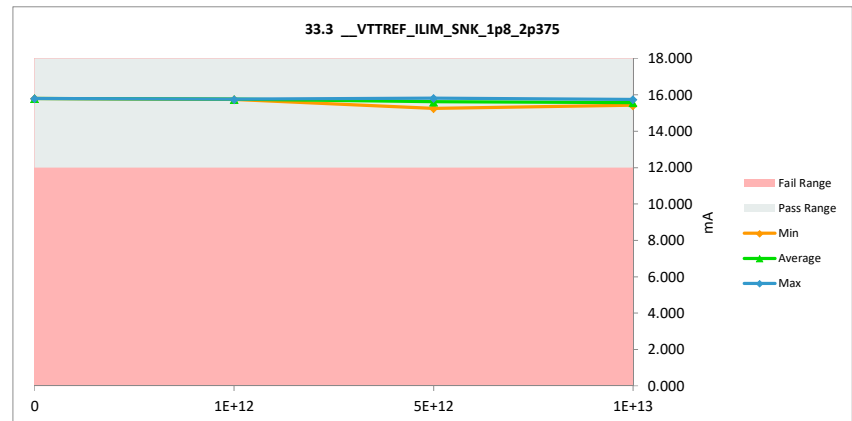
33.3 __VTTREF_ILIM_SNK_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	12 12

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.804	15.801	-0.003
1E+12	2	15.750	15.748	-0.002
1E+12	3	15.764	15.756	-0.008
1E+12	4	15.761	15.752	-0.009
5E+12	5	15.842	15.822	-0.020
5E+12	6	15.278	15.262	-0.016
5E+12	7	15.764	15.753	-0.011
1E+13	8	15.575	15.415	-0.161
1E+13	9	15.795	15.752	-0.044
1E+13	10	15.602	15.569	-0.033
	Max	15.842	15.822	-0.002
	Average	15.694	15.663	-0.031
	Min	15.278	15.262	-0.161
	Std Dev	0.169	0.187	0.048



33.3 __VTTREF_ILIM_SNK_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	12 mA

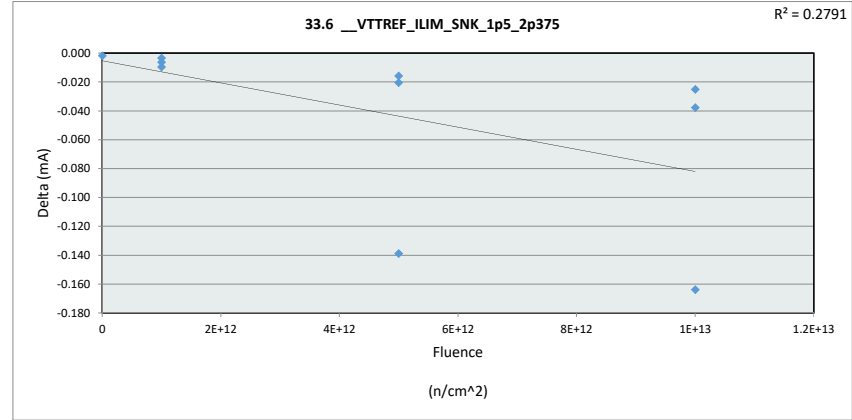
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	15.801	15.748	15.262	15.415
Average	15.801	15.752	15.612	15.579
Max	15.801	15.756	15.822	15.752
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

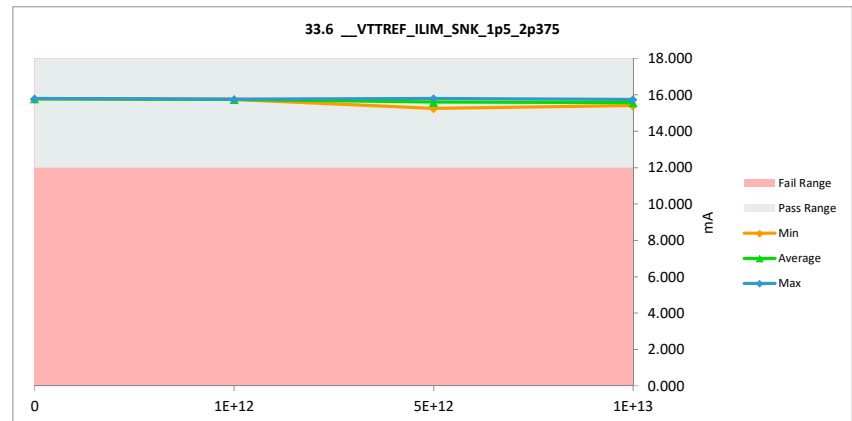
33.6 __VTTREF_ILIM_SNK_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	
Min Limit	12 12

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	15.787	15.786	-0.002
1E+12	2	15.742	15.739	-0.003
1E+12	3	15.756	15.750	-0.006
1E+12	4	15.750	15.741	-0.009
5E+12	5	15.826	15.806	-0.020
5E+12	6	15.387	15.248	-0.139
5E+12	7	15.756	15.741	-0.016
1E+13	8	15.566	15.402	-0.164
1E+13	9	15.781	15.744	-0.038
1E+13	10	15.593	15.568	-0.025
	Max	15.826	15.806	-0.002
	Average	15.695	15.652	-0.042
	Min	15.387	15.248	-0.164
	Std Dev	0.137	0.187	0.059



33.6 __VTTREF_ILIM_SNK_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	mA
Min Limit	12 mA

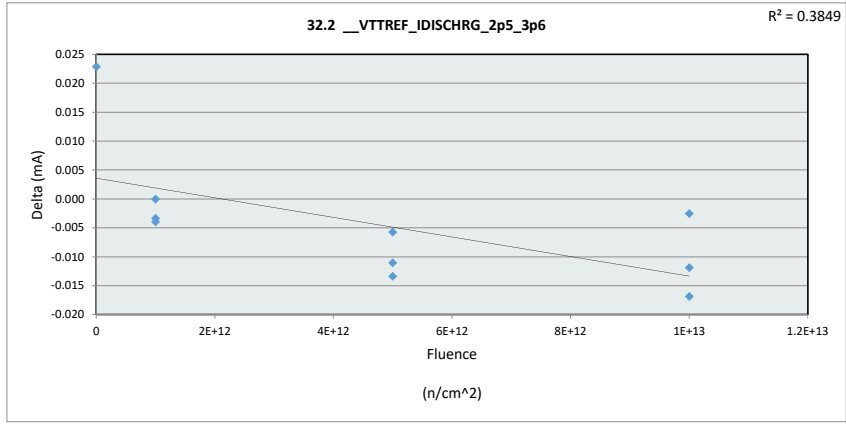
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	15.786	15.739	15.248	15.402
Average	15.786	15.743	15.598	15.571
Max	15.786	15.750	15.806	15.744
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

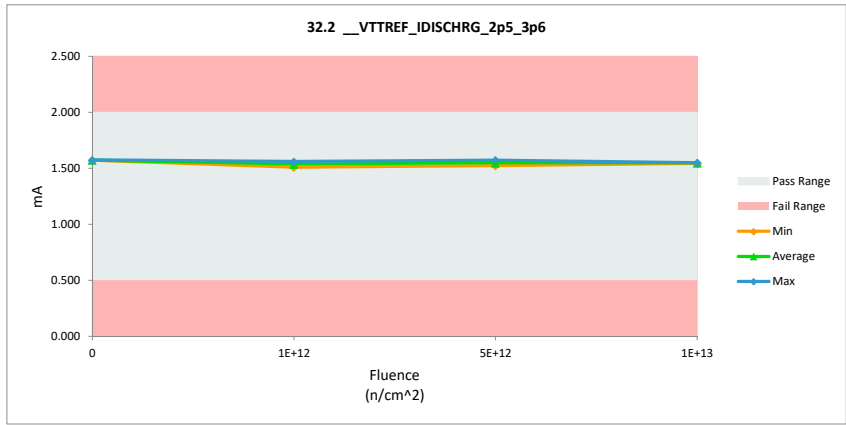
32.2 __VTTREF_IDISCHRG_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2	2
Min Limit	0.5	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.550	1.573	0.023
1E+12	2	1.541	1.541	0.000
1E+12	3	1.563	1.559	-0.003
1E+12	4	1.515	1.512	-0.004
5E+12	5	1.587	1.574	-0.013
5E+12	6	1.535	1.524	-0.011
5E+12	7	1.552	1.546	-0.006
1E+13	8	1.568	1.551	-0.017
1E+13	9	1.555	1.543	-0.012
1E+13	10	1.551	1.548	-0.002
	Max	1.587	1.574	0.023
	Average	1.552	1.547	-0.005
	Min	1.515	1.512	-0.017
	Std Dev	0.019	0.019	0.011



32.2 __VTTREF_IDISCHRG_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	2	mA
Min Limit	0.5	mA

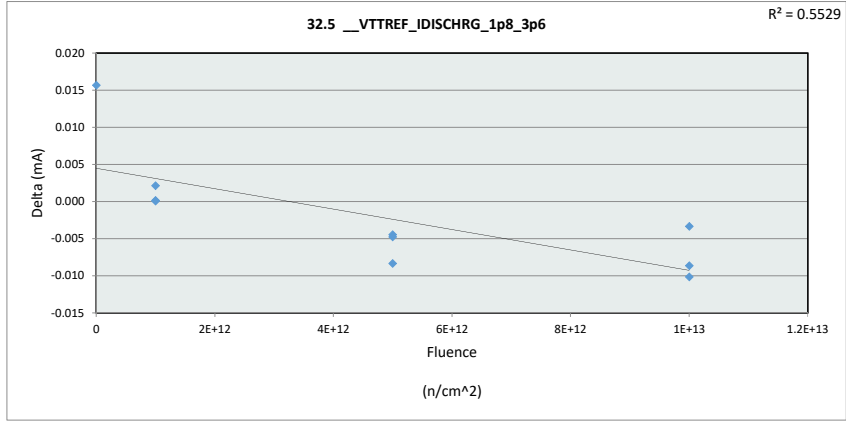
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.573	1.512	1.524	1.543
Average	1.573	1.537	1.548	1.548
Max	1.573	1.559	1.574	1.551
UL	2.000	2.000	2.000	2.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

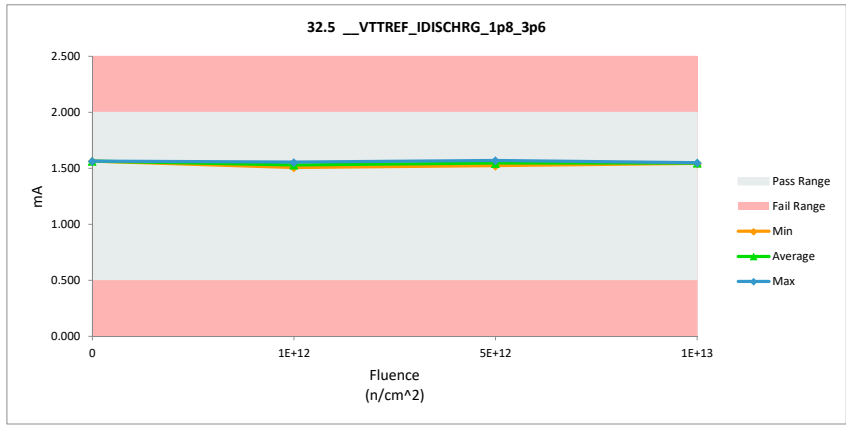
32.5 __VTTREF_IDISCHRG_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2	2
Min Limit	0.5	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.548	1.563	0.016
1E+12	2	1.530	1.532	0.002
1E+12	3	1.553	1.553	0.000
1E+12	4	1.507	1.507	0.000
5E+12	5	1.579	1.571	-0.008
5E+12	6	1.527	1.522	-0.005
5E+12	7	1.548	1.544	-0.004
1E+13	8	1.561	1.551	-0.010
1E+13	9	1.552	1.543	-0.009
1E+13	10	1.549	1.546	-0.003
	Max	1.579	1.571	0.016
	Average	1.545	1.543	-0.002
	Min	1.507	1.507	-0.010
	Std Dev	0.020	0.019	0.007



32.5 __VTTREF_IDISCHRG_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	2	mA
Min Limit	0.5	mA

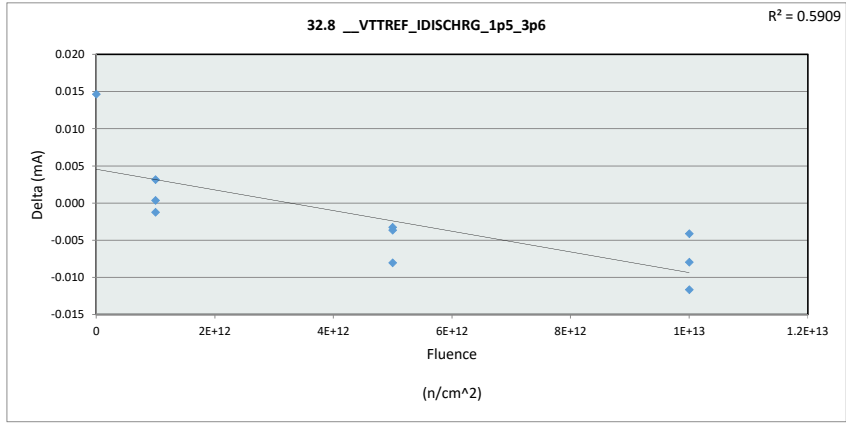
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.563	1.507	1.522	1.543
Average	1.563	1.531	1.546	1.547
Max	1.563	1.553	1.571	1.551
UL	2.000	2.000	2.000	2.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

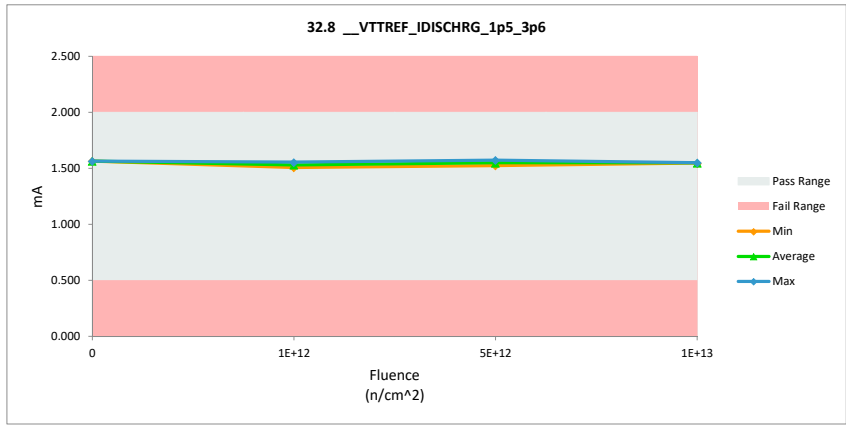
32.8 __VTTREF_IDISCHRG_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2	2
Min Limit	0.5	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.549	1.564	0.015
1E+12	2	1.530	1.533	0.003
1E+12	3	1.553	1.553	0.000
1E+12	4	1.509	1.508	-0.001
5E+12	5	1.580	1.572	-0.008
5E+12	6	1.528	1.525	-0.003
5E+12	7	1.549	1.546	-0.004
1E+13	8	1.563	1.551	-0.012
1E+13	9	1.553	1.545	-0.008
1E+13	10	1.551	1.547	-0.004
	Max	1.580	1.572	0.015
	Average	1.546	1.544	-0.002
	Min	1.509	1.508	-0.012
	Std Dev	0.020	0.019	0.007



32.8 __VTTREF_IDISCHRG_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	2	mA
Min Limit	0.5	mA

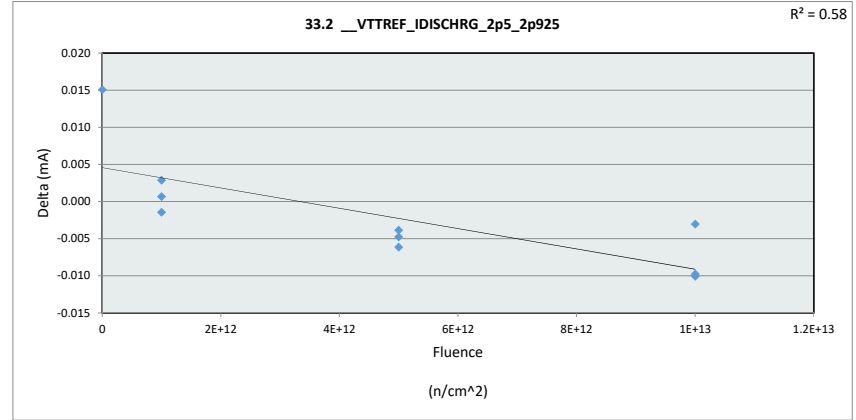
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.564	1.508	1.525	1.545
Average	1.564	1.531	1.547	1.548
Max	1.564	1.553	1.572	1.551
UL	2.000	2.000	2.000	2.000



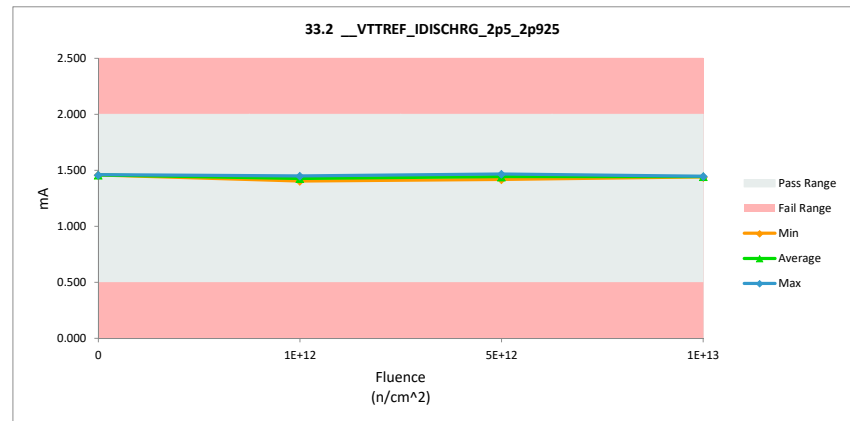
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

33.2 __VTTREF_IDISCHRG_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	2	2
Min Limit	0.5	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.445	1.460	0.015
1E+12	2	1.426	1.429	0.003
1E+12	3	1.449	1.450	0.001
1E+12	4	1.406	1.405	-0.001
5E+12	5	1.474	1.468	-0.006
5E+12	6	1.423	1.419	-0.004
5E+12	7	1.444	1.440	-0.005
1E+13	8	1.458	1.448	-0.010
1E+13	9	1.450	1.440	-0.010
1E+13	10	1.445	1.442	-0.003
	Max	1.474	1.468	0.015
	Average	1.442	1.440	-0.002
	Min	1.406	1.405	-0.010
	Std Dev	0.019	0.019	0.007



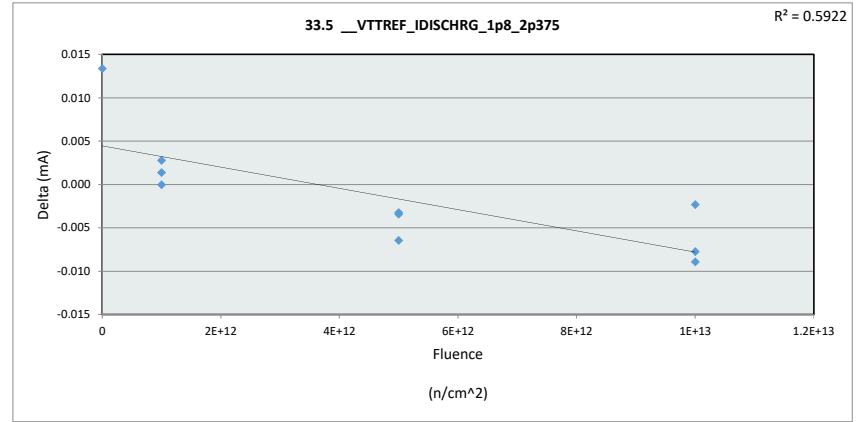
33.2 __VTTREF_IDISCHRG_2p5_2p925				
Test Site				
Tester				
Test Number				
Max Limit	2		mA	
Min Limit	0.5		mA	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.460	1.405	1.419	1.440
Average	1.460	1.428	1.442	1.443
Max	1.460	1.450	1.468	1.448
UL	2.000	2.000	2.000	2.000



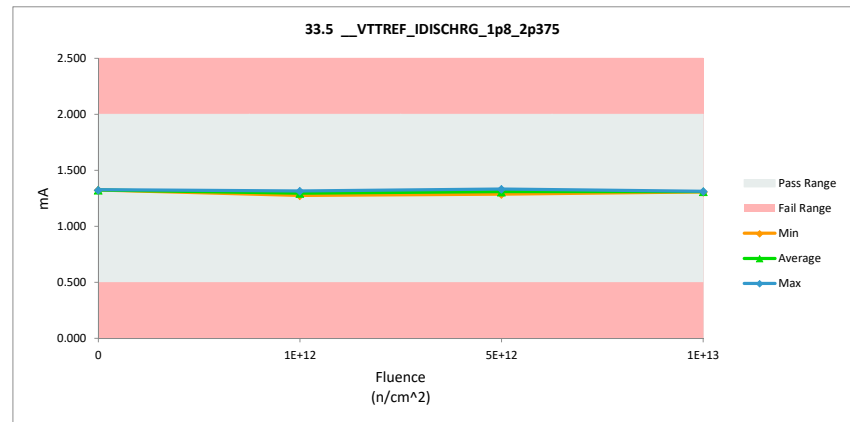
Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

33.5 __VTTREF_IDISCHRG_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	mA mA
Max Limit	2 2
Min Limit	0.5 0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.311	1.325	0.013
1E+12	2	1.292	1.295	0.003
1E+12	3	1.315	1.316	0.001
1E+12	4	1.275	1.275	0.000
5E+12	5	1.338	1.332	-0.006
5E+12	6	1.289	1.286	-0.003
5E+12	7	1.309	1.305	-0.003
1E+13	8	1.322	1.314	-0.009
1E+13	9	1.315	1.308	-0.008
1E+13	10	1.311	1.309	-0.002
	Max	1.338	1.332	0.013
	Average	1.308	1.306	-0.001
	Min	1.275	1.275	-0.009
	Std Dev	0.018	0.017	0.006



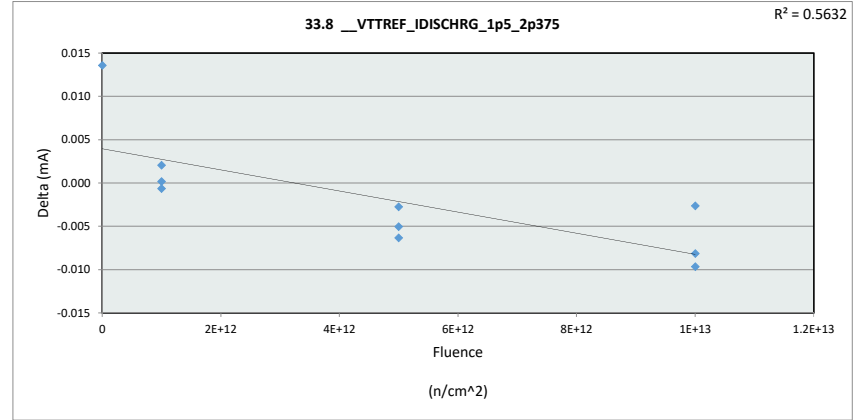
33.5 __VTTREF_IDISCHRG_1p8_2p375				
Test Site				
Tester				
Test Number				
Max Limit	2		mA	
Min Limit	0.5		mA	
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.325	1.275	1.286	1.308
Average	1.325	1.295	1.308	1.310
Max	1.325	1.316	1.332	1.314
UL	2.000	2.000	2.000	2.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

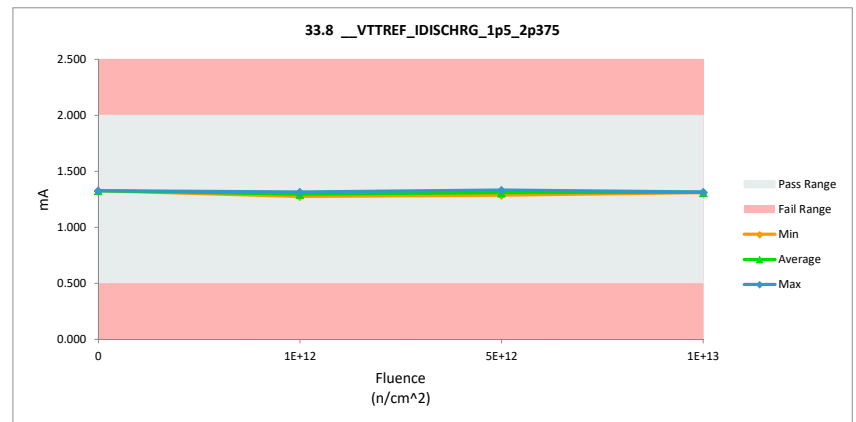
33.8 __VTTREF_IDISCHRG_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	2
Min Limit	0.5

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.313	1.326	0.014
1E+12	2	1.293	1.295	0.002
1E+12	3	1.316	1.316	0.000
1E+12	4	1.276	1.275	-0.001
5E+12	5	1.339	1.333	-0.006
5E+12	6	1.291	1.286	-0.005
5E+12	7	1.309	1.307	-0.003
1E+13	8	1.324	1.315	-0.010
1E+13	9	1.316	1.308	-0.008
1E+13	10	1.311	1.309	-0.003
	Max	1.339	1.333	0.014
	Average	1.309	1.307	-0.002
	Min	1.276	1.275	-0.010
	Std Dev	0.018	0.018	0.007



33.8 __VTTREF_IDISCHRG_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	2 mA
Min Limit	0.5 mA

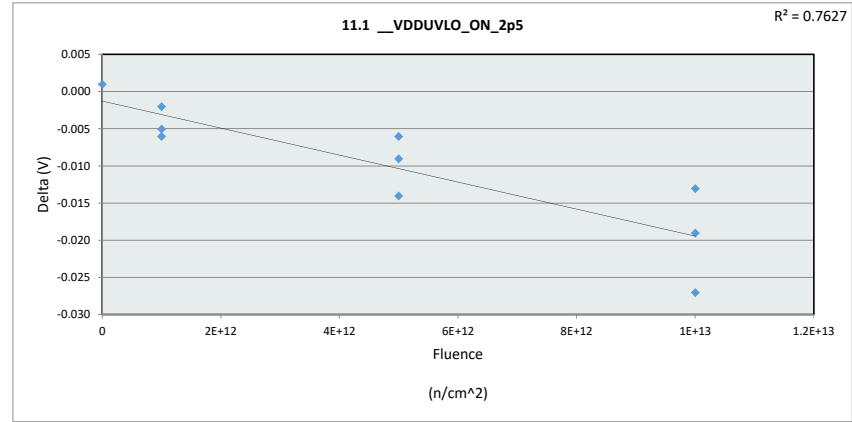
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.500	0.500	0.500	0.500
Min	1.326	1.275	1.286	1.308
Average	1.326	1.295	1.309	1.311
Max	1.326	1.316	1.333	1.315
UL	2.000	2.000	2.000	2.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

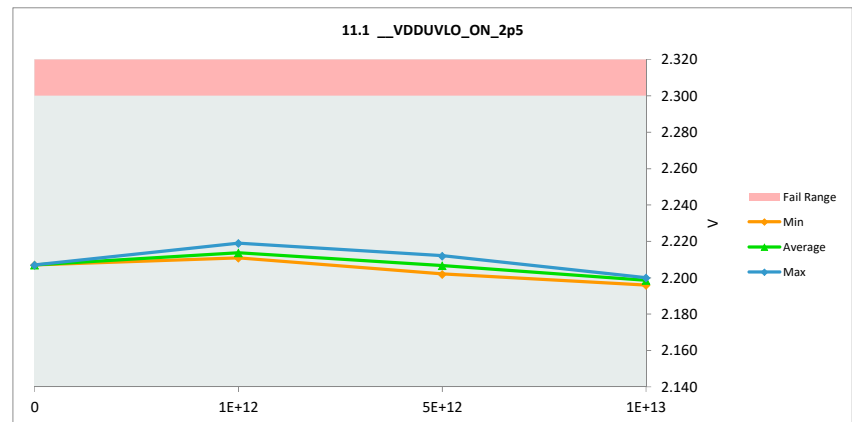
11.1 __VDDUVLO_ON_2p5	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	2.3 2.3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	2.206	2.207	0.001
1E+12	2	2.217	2.211	-0.006
1E+12	3	2.216	2.211	-0.005
1E+12	4	2.221	2.219	-0.002
5E+12	5	2.218	2.212	-0.006
5E+12	6	2.220	2.206	-0.014
5E+12	7	2.211	2.202	-0.009
1E+13	8	2.219	2.200	-0.019
1E+13	9	2.223	2.196	-0.027
1E+13	10	2.213	2.200	-0.013
	Max	2.223	2.219	0.001
	Average	2.216	2.206	-0.010
	Min	2.206	2.196	-0.027
	Std Dev	0.005	0.007	0.008



11.1 __VDDUVLO_ON_2p5	
Test Site	
Tester	
Test Number	
Max Limit	2.3 V
Min Limit	V

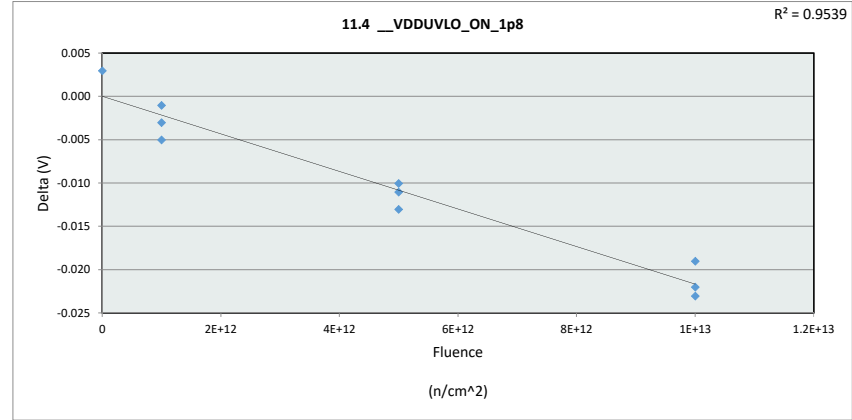
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	2.207	2.211	2.202	2.196
Average	2.207	2.214	2.207	2.199
Max	2.207	2.219	2.212	2.200
UL	2.300	2.300	2.300	2.300



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

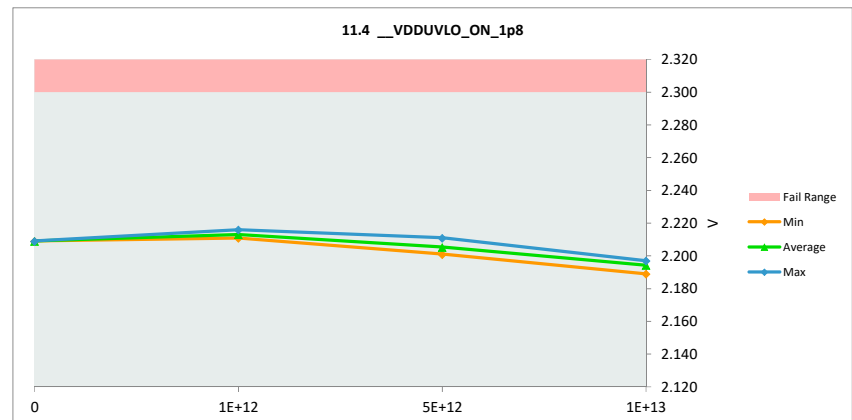
11.4 __VDDUVLO_ON_1p8	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	2.3 2.3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	2.206	2.209	0.003
1E+12	2	2.214	2.211	-0.003
1E+12	3	2.213	2.212	-0.001
1E+12	4	2.221	2.216	-0.005
5E+12	5	2.222	2.211	-0.011
5E+12	6	2.217	2.204	-0.013
5E+12	7	2.211	2.201	-0.010
1E+13	8	2.212	2.189	-0.023
1E+13	9	2.219	2.197	-0.022
1E+13	10	2.216	2.197	-0.019
	Max	2.222	2.216	0.003
	Average	2.215	2.205	-0.010
	Min	2.206	2.189	-0.023
	Std Dev	0.005	0.009	0.009



11.4 __VDDUVLO_ON_1p8	
Test Site	
Tester	
Test Number	
Max Limit	2.3 V
Min Limit	V

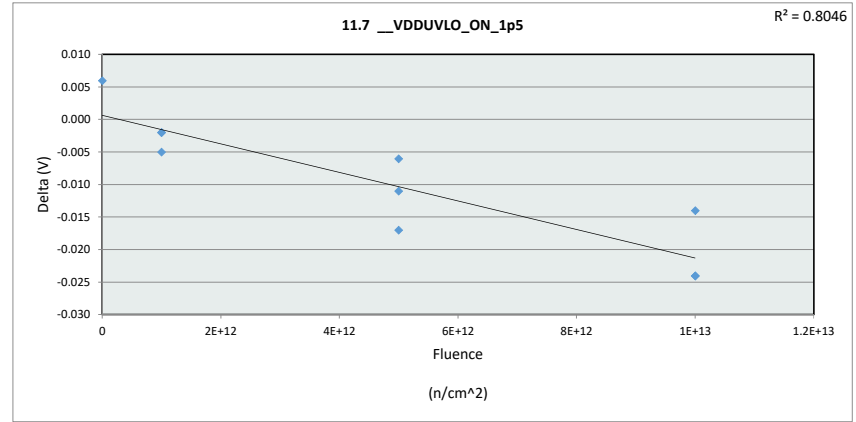
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	2.209	2.211	2.201	2.189
Average	2.209	2.213	2.205	2.194
Max	2.209	2.216	2.211	2.197
UL	2.300	2.300	2.300	2.300



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

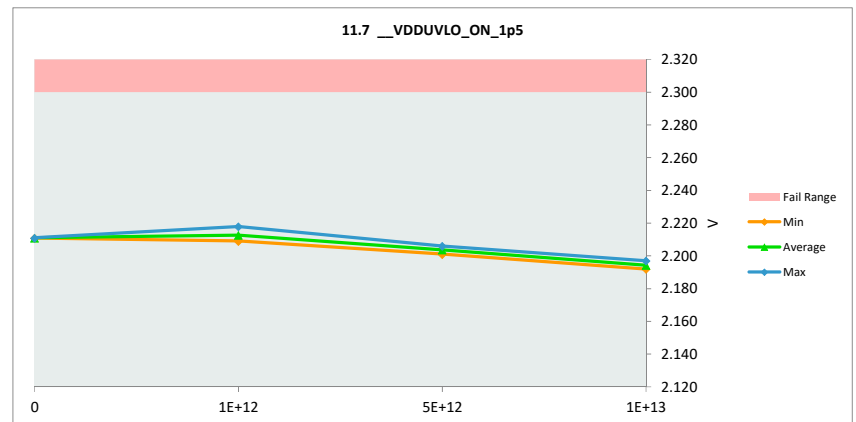
11.7 __VDDUVLO_ON_1p5	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	2.3 2.3
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	2.205	2.211	0.006
1E+12	2	2.214	2.209	-0.005
1E+12	3	2.213	2.211	-0.002
1E+12	4	2.220	2.218	-0.002
5E+12	5	2.223	2.206	-0.017
5E+12	6	2.215	2.204	-0.011
5E+12	7	2.207	2.201	-0.006
1E+13	8	2.216	2.192	-0.024
1E+13	9	2.221	2.197	-0.024
1E+13	10	2.208	2.194	-0.014
	Max	2.223	2.218	0.006
	Average	2.214	2.204	-0.010
	Min	2.205	2.192	-0.024
	Std Dev	0.006	0.008	0.010



11.7 __VDDUVLO_ON_1p5	
Test Site	
Tester	
Test Number	
Max Limit	2.3 V
Min Limit	V

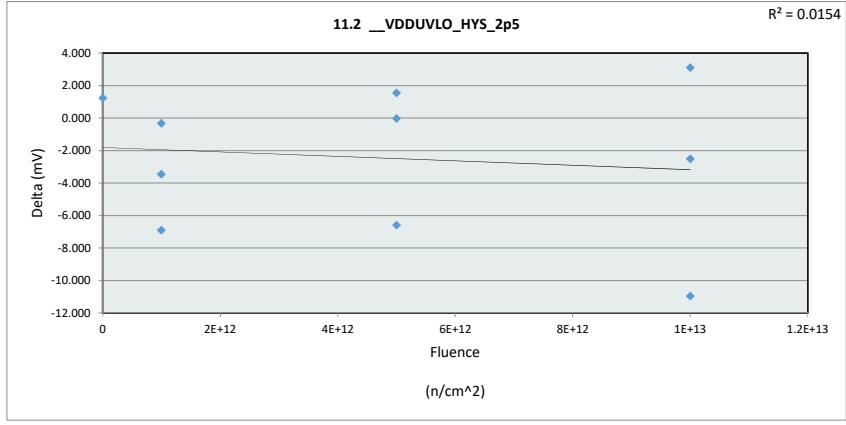
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	2.211	2.209	2.201	2.192
Average	2.211	2.213	2.204	2.194
Max	2.211	2.218	2.206	2.197
UL	2.300	2.300	2.300	2.300



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

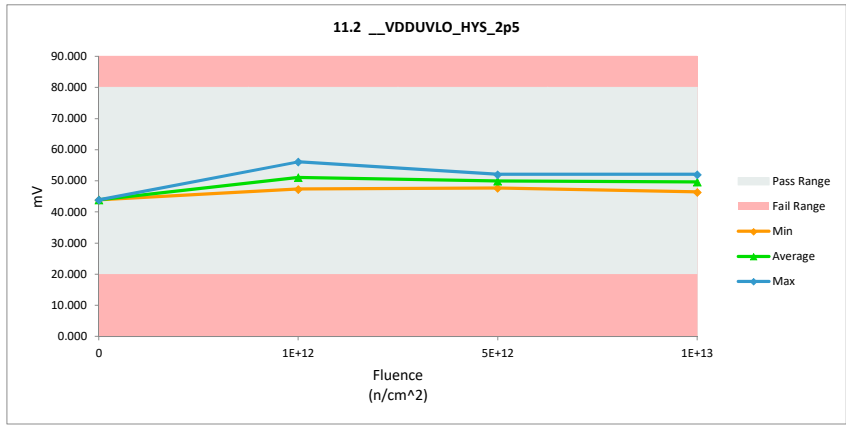
11.2 __VDDUVLO_HYS_2p5		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	80	80
Min Limit	20	20

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	42.638	43.887	1.249
1E+12	2	54.198	47.324	-6.874
1E+12	3	53.261	49.824	-3.437
1E+12	4	56.386	56.073	-0.313
5E+12	5	50.449	52.011	1.562
5E+12	6	56.698	50.137	-6.561
5E+12	7	47.637	47.637	0.000
1E+13	8	54.511	52.011	-2.500
1E+13	9	57.323	46.387	-10.936
1E+13	10	47.325	50.449	3.124
	Max	57.323	56.073	3.124
	Average	52.043	49.574	-2.469
	Min	42.638	43.887	-10.936
	Std Dev	4.868	3.441	4.483



11.2 __VDDUVLO_HYS_2p5		
Test Site		
Tester		
Test Number		
Max Limit	80	mV
Min Limit	20	mV

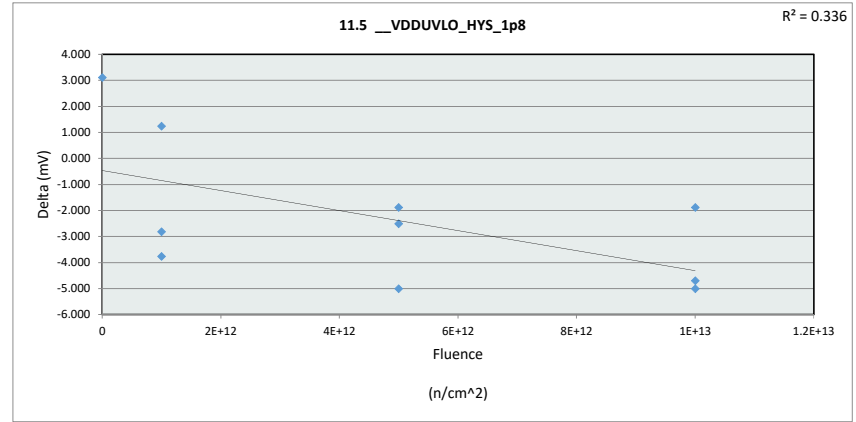
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	20.000	20.000	20.000	20.000
Min	43.887	47.324	47.637	46.387
Average	43.887	51.074	49.928	49.616
Max	43.887	56.073	52.011	52.011
UL	80.000	80.000	80.000	80.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

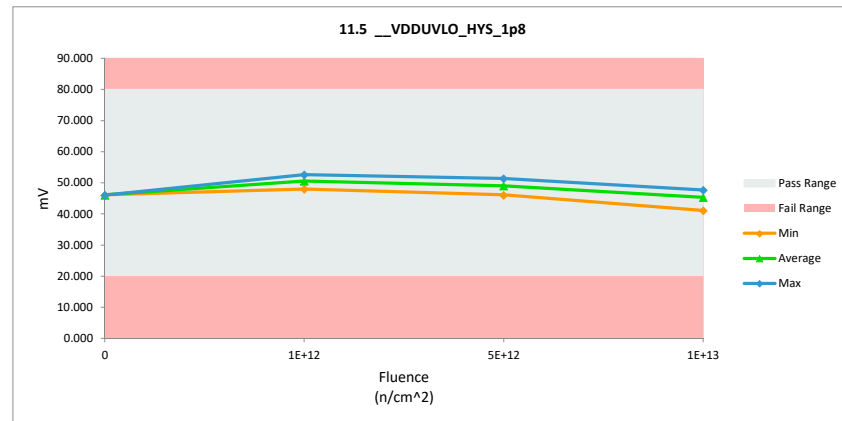
11.5 __VDDUVLO_HYS_1p8		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	80	80
Min Limit	20	20

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	42.950	46.074	3.124
1E+12	2	50.761	47.950	-2.811
1E+12	3	49.824	51.074	1.250
1E+12	4	56.386	52.636	-3.750
5E+12	5	53.886	51.386	-2.500
5E+12	6	54.511	49.512	-4.999
5E+12	7	47.949	46.075	-1.874
1E+13	8	46.074	41.075	-4.999
1E+13	9	52.324	47.637	-4.687
1E+13	10	49.199	47.325	-1.874
	Max	56.386	52.636	3.124
	Average	50.386	48.074	-2.312
	Min	42.950	41.075	-4.999
	Std Dev	4.092	3.343	2.689



11.5 __VDDUVLO_HYS_1p8		
Test Site		
Tester		
Test Number		
Max Limit	80	mV
Min Limit	20	mV

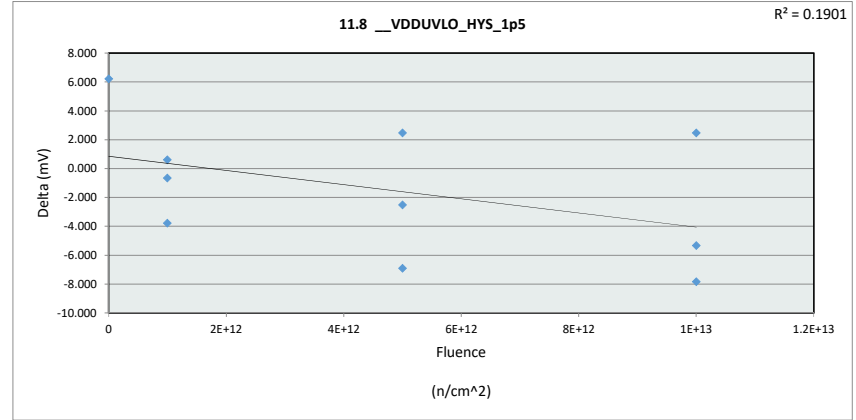
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	20.000	20.000	20.000	20.000
Min	46.074	47.950	46.075	41.075
Average	46.074	50.553	48.991	45.346
Max	46.074	52.636	51.386	47.637
UL	80.000	80.000	80.000	80.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

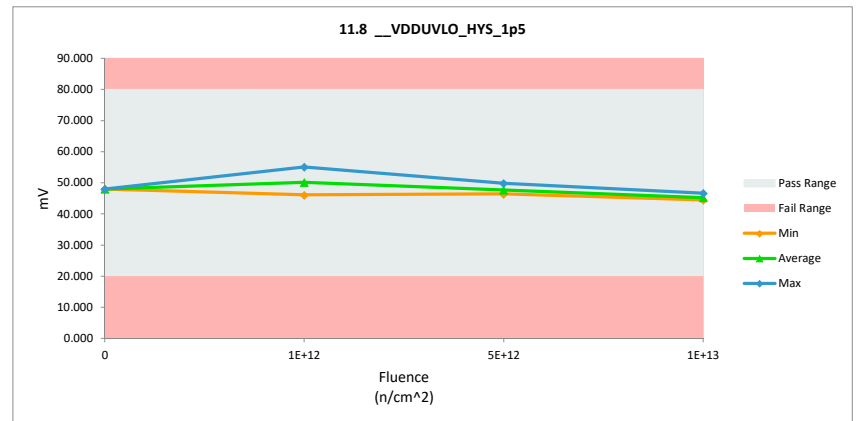
11.8 __VDDUVLO_HYS_1p5		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	80	80
Min Limit	20	20

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	41.700	47.949	6.249
1E+12	2	49.824	46.075	-3.749
1E+12	3	49.824	49.199	-0.625
1E+12	4	54.511	55.136	0.625
5E+12	5	53.261	46.387	-6.874
5E+12	6	52.324	49.824	-2.500
5E+12	7	44.200	46.699	2.499
1E+13	8	49.824	44.512	-5.312
1E+13	9	54.511	46.700	-7.811
1E+13	10	42.013	44.513	2.500
	Max	54.511	55.136	6.249
	Average	49.199	47.699	-1.500
	Min	41.700	44.512	-7.811
	Std Dev	4.907	3.141	4.554



11.8 __VDDUVLO_HYS_1p5		
Test Site		
Tester		
Test Number		
Max Limit	80	mV
Min Limit	20	mV

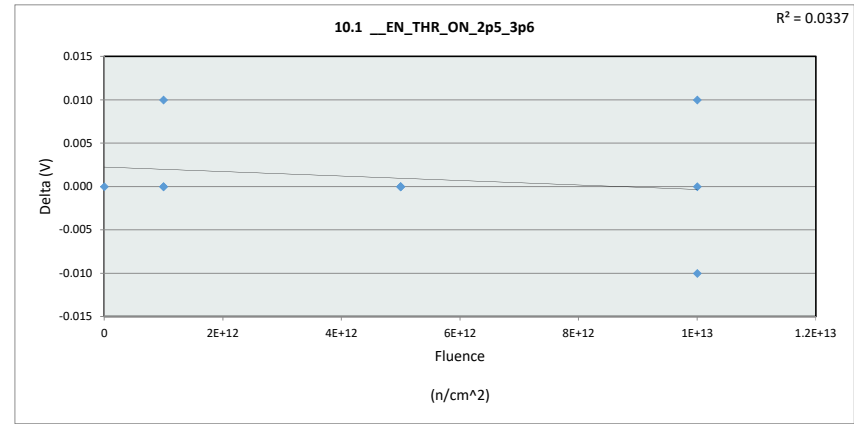
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	20.000	20.000	20.000	20.000
Min	47.949	46.075	46.387	44.512
Average	47.949	50.137	47.637	45.242
Max	47.949	55.136	49.824	46.700
UL	80.000	80.000	80.000	80.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

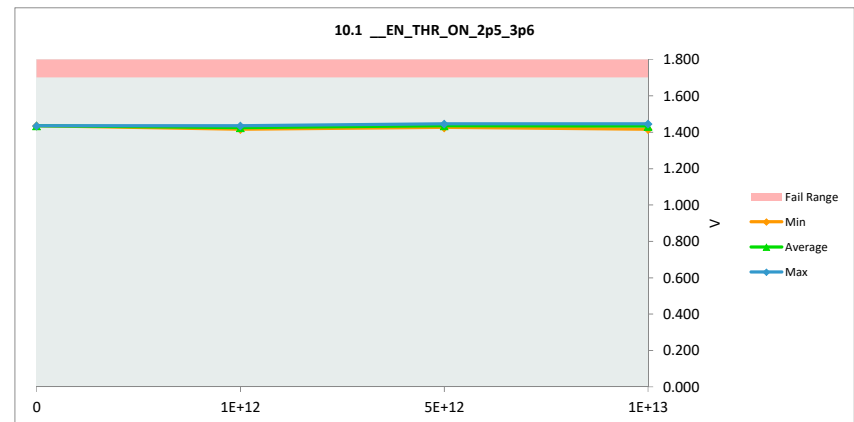
10.1 __EN_THR_ON_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.7 1.7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.436	1.436	0.000
1E+12	2	1.426	1.436	0.010
1E+12	3	1.426	1.426	0.000
1E+12	4	1.416	1.416	0.000
5E+12	5	1.446	1.446	0.000
5E+12	6	1.426	1.426	0.000
5E+12	7	1.436	1.436	0.000
1E+13	8	1.436	1.446	0.010
1E+13	9	1.426	1.416	-0.010
1E+13	10	1.436	1.436	0.000
Max		1.446	1.446	0.010
Average		1.431	1.432	0.001
Min		1.416	1.416	-0.010
Std Dev		0.008	0.011	0.006



10.1 __EN_THR_ON_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.7 V
Min Limit	V

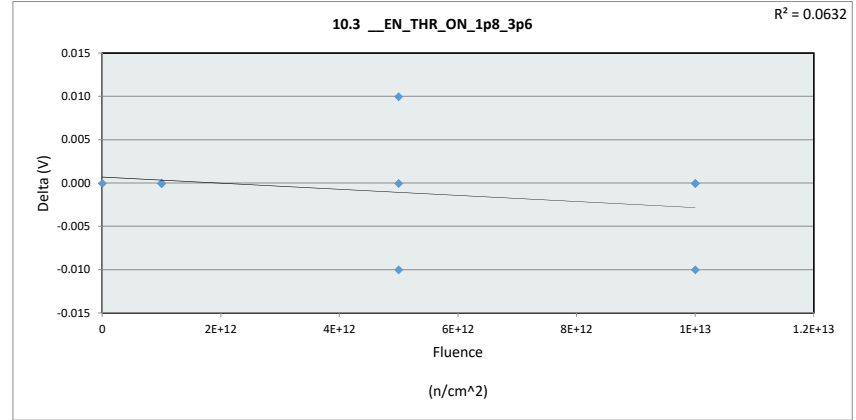
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.436	1.416	1.426	1.416
Average	1.436	1.426	1.436	1.433
Max	1.436	1.436	1.446	1.446
UL	1.700	1.700	1.700	1.700



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

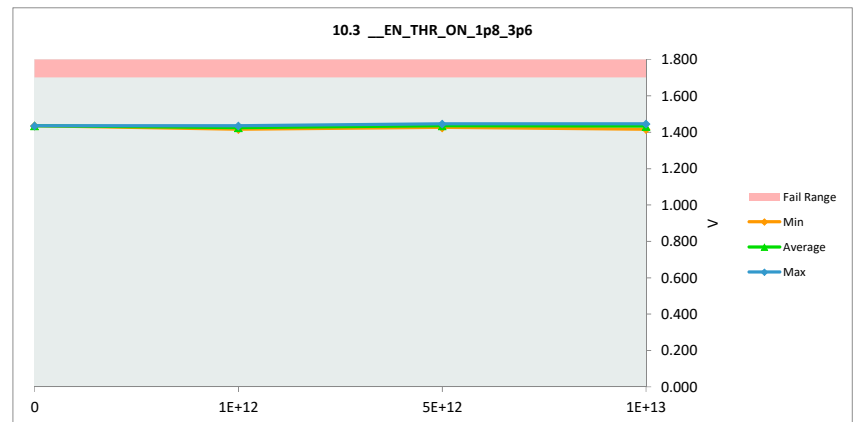
10.3 __EN_THR_ON_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.7 1.7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.436	1.436	0.000
1E+12	2	1.436	1.436	0.000
1E+12	3	1.426	1.426	0.000
1E+12	4	1.416	1.416	0.000
5E+12	5	1.446	1.436	-0.010
5E+12	6	1.426	1.426	0.000
5E+12	7	1.436	1.446	0.010
1E+13	8	1.446	1.446	0.000
1E+13	9	1.426	1.416	-0.010
1E+13	10	1.436	1.436	0.000
Max		1.446	1.446	0.010
Average		1.433	1.432	-0.001
Min		1.416	1.416	-0.010
Std Dev		0.009	0.011	0.006



10.3 __EN_THR_ON_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.7 V
Min Limit	V

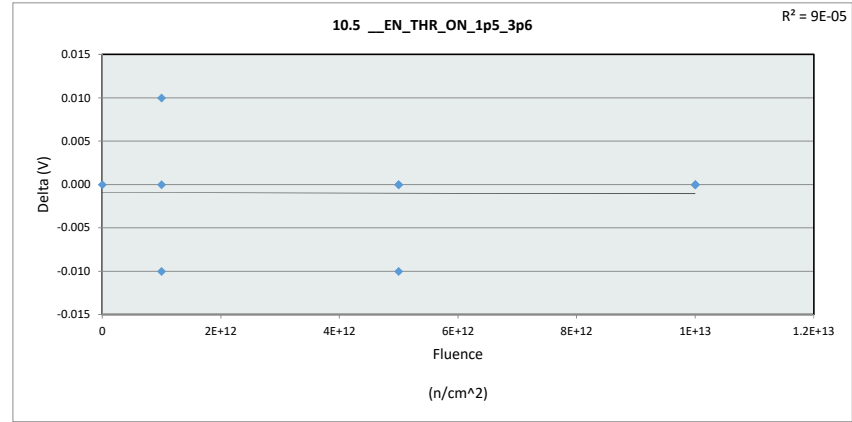
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.436	1.416	1.426	1.416
Average	1.436	1.426	1.436	1.433
Max	1.436	1.436	1.446	1.446
UL	1.700	1.700	1.700	1.700



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

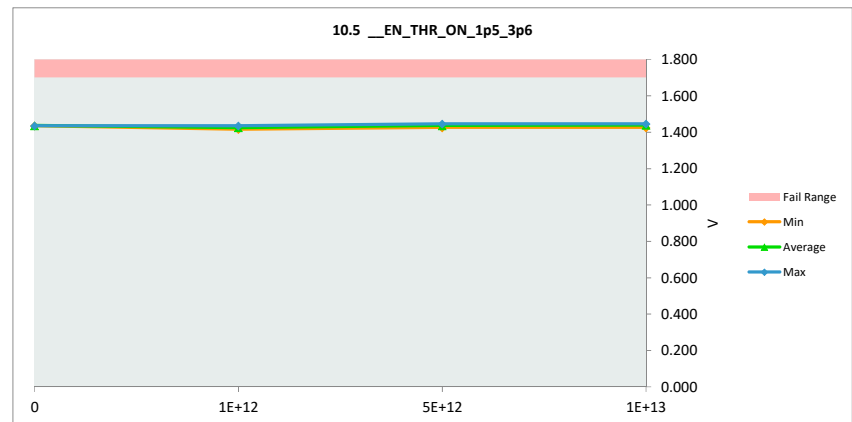
10.5 __EN_THR_ON_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.7 1.7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.436	1.436	0.000
1E+12	2	1.436	1.426	-0.010
1E+12	3	1.426	1.436	0.010
1E+12	4	1.416	1.416	0.000
5E+12	5	1.446	1.446	0.000
5E+12	6	1.436	1.426	-0.010
5E+12	7	1.436	1.436	0.000
1E+13	8	1.446	1.446	0.000
1E+13	9	1.426	1.426	0.000
1E+13	10	1.446	1.446	0.000
Max		1.446	1.446	0.010
Average		1.435	1.434	-0.001
Min		1.416	1.416	-0.010
Std Dev		0.010	0.010	0.006



10.5 __EN_THR_ON_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1.7 V
Min Limit	V

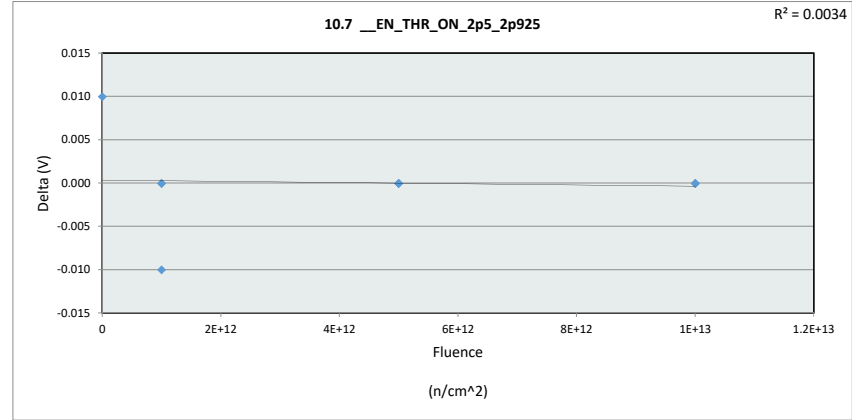
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.436	1.416	1.426	1.426
Average	1.436	1.426	1.436	1.439
Max	1.436	1.436	1.446	1.446
UL	1.700	1.700	1.700	1.700



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

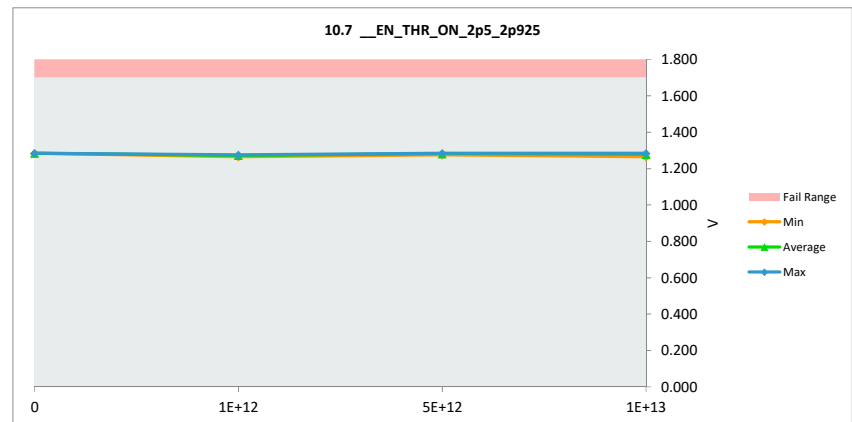
10.7 __EN_THR_ON_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.7 1.7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.275	1.285	0.010
1E+12	2	1.285	1.275	-0.010
1E+12	3	1.275	1.275	0.000
1E+12	4	1.265	1.265	0.000
5E+12	5	1.285	1.285	0.000
5E+12	6	1.275	1.275	0.000
5E+12	7	1.285	1.285	0.000
1E+13	8	1.285	1.285	0.000
1E+13	9	1.265	1.265	0.000
1E+13	10	1.285	1.285	0.000
Max		1.285	1.285	0.010
Average		1.278	1.278	0.000
Min		1.265	1.265	-0.010
Std Dev		0.008	0.008	0.005



10.7 __EN_THR_ON_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	1.7 V
Min Limit	V

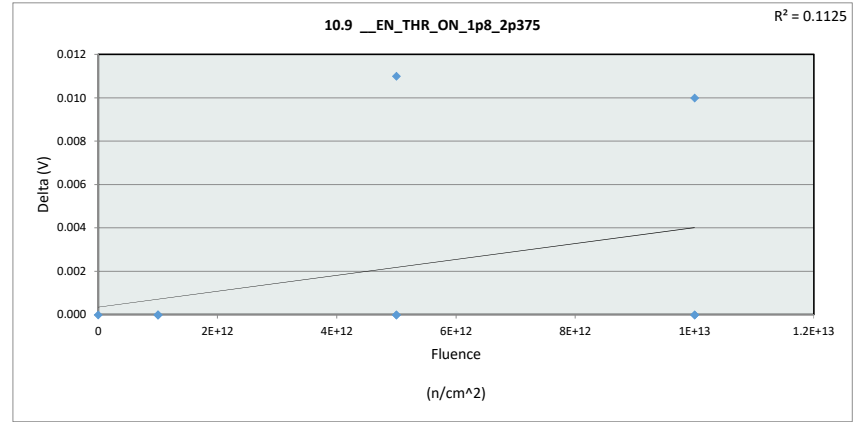
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.285	1.265	1.275	1.265
Average	1.285	1.272	1.282	1.278
Max	1.285	1.275	1.285	1.285
UL	1.700	1.700	1.700	1.700



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

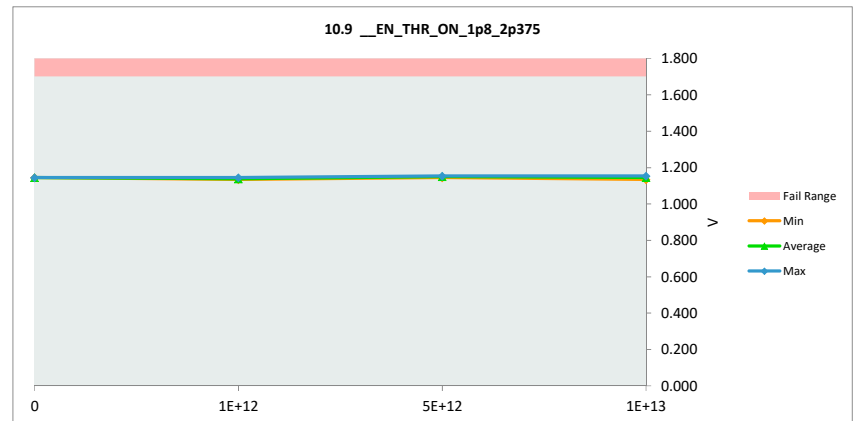
10.9 __EN_THR_ON_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.7 1.7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.145	1.145	0.000
1E+12	2	1.145	1.145	0.000
1E+12	3	1.135	1.135	0.000
1E+12	4	1.135	1.135	0.000
5E+12	5	1.155	1.155	0.000
5E+12	6	1.134	1.145	0.011
5E+12	7	1.155	1.155	0.000
1E+13	8	1.145	1.155	0.010
1E+13	9	1.135	1.135	0.000
1E+13	10	1.145	1.145	0.000
Max		1.155	1.155	0.011
Average		1.143	1.145	0.002
Min		1.134	1.135	0.000
Std Dev		0.008	0.008	0.004



10.9 __EN_THR_ON_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1.7 V
Min Limit	V

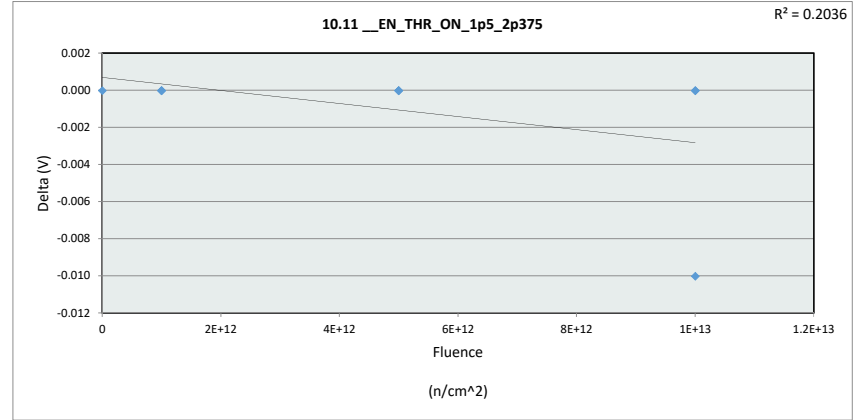
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.145	1.135	1.145	1.135
Average	1.145	1.138	1.152	1.145
Max	1.145	1.145	1.155	1.155
UL	1.700	1.700	1.700	1.700



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

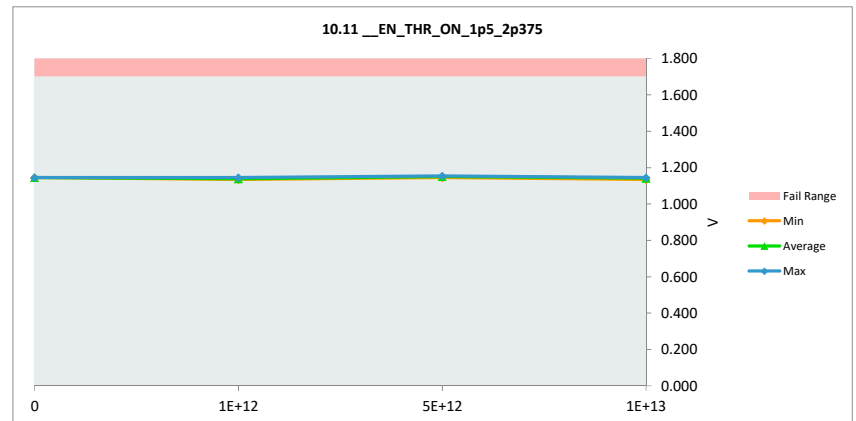
10.11 EN_THR_ON_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	1.7 1.7
Min Limit	

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	1.145	1.145	0.000
1E+12	2	1.145	1.145	0.000
1E+12	3	1.135	1.135	0.000
1E+12	4	1.135	1.135	0.000
5E+12	5	1.155	1.155	0.000
5E+12	6	1.145	1.145	0.000
5E+12	7	1.155	1.155	0.000
1E+13	8	1.155	1.145	-0.010
1E+13	9	1.135	1.135	0.000
1E+13	10	1.145	1.145	0.000
Max		1.155	1.155	0.000
Average		1.145	1.144	-0.001
Min		1.135	1.135	-0.010
Std Dev		0.008	0.007	0.003



10.11 EN_THR_ON_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	1.7 V
Min Limit	V

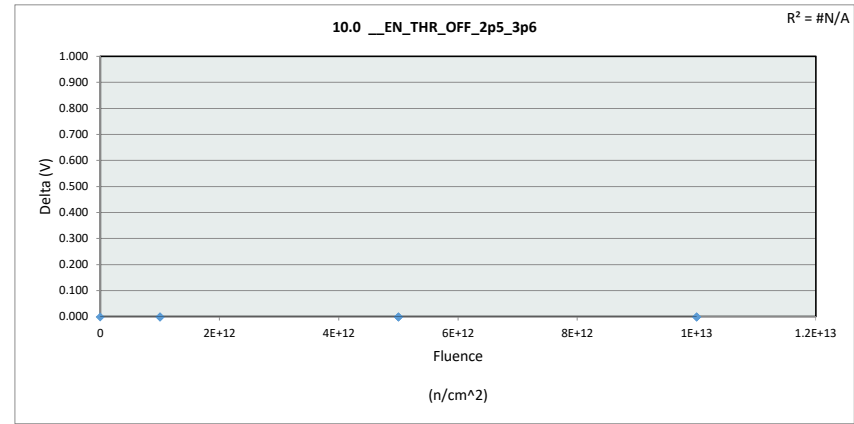
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL				
Min	1.145	1.135	1.145	1.135
Average	1.145	1.138	1.152	1.142
Max	1.145	1.145	1.155	1.145
UL	1.700	1.700	1.700	1.700



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

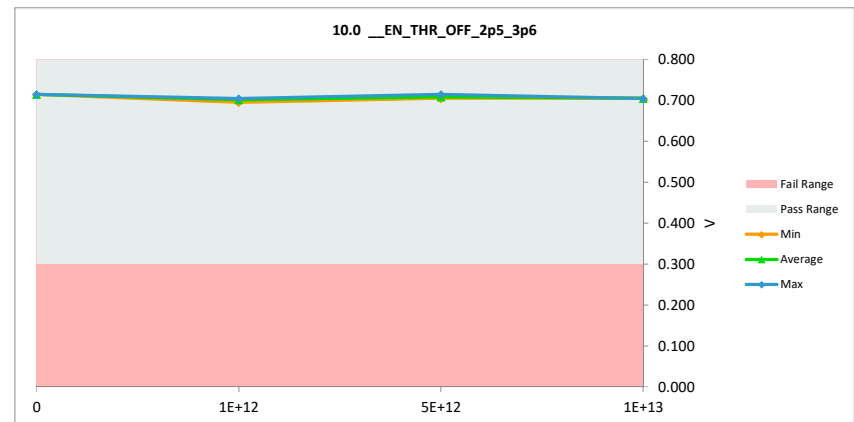
10.0 __EN_THR_OFF_2p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	
Min Limit	0.3 0.3

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.715	0.715	0.000
1E+12	2	0.705	0.705	0.000
1E+12	3	0.695	0.695	0.000
1E+12	4	0.705	0.705	0.000
5E+12	5	0.705	0.705	0.000
5E+12	6	0.715	0.715	0.000
5E+12	7	0.705	0.705	0.000
1E+13	8	0.705	0.705	0.000
1E+13	9	0.705	0.705	0.000
1E+13	10	0.705	0.705	0.000
	Max	0.715	0.715	0.000
	Average	0.706	0.706	0.000
	Min	0.695	0.695	0.000
	Std Dev	0.006	0.006	0.000



10.0 __EN_THR_OFF_2p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	V
Min Limit	V

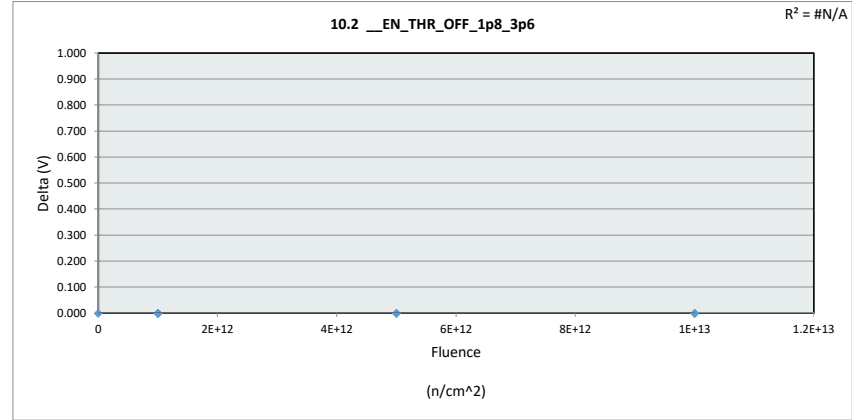
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.300	0.300	0.300	0.300
Min	0.715	0.695	0.705	0.705
Average	0.715	0.702	0.708	0.705
Max	0.715	0.705	0.715	0.705
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

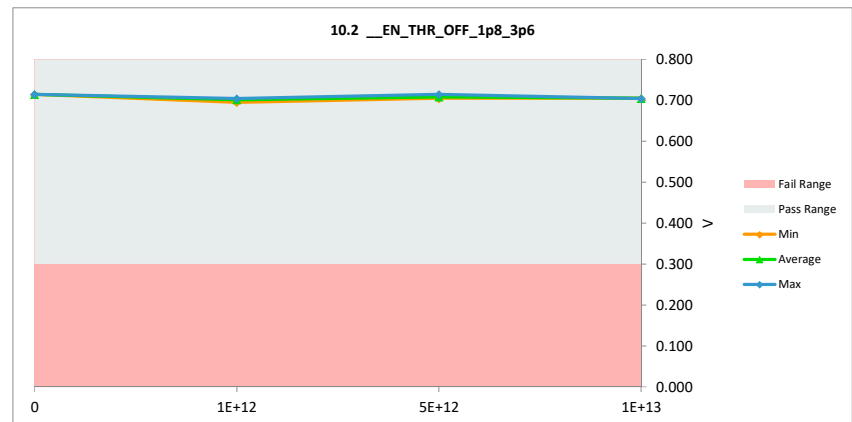
10.2 __EN_THR_OFF_1p8_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	
Min Limit	0.3 0.3

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.715	0.715	0.000
1E+12	2	0.705	0.705	0.000
1E+12	3	0.695	0.695	0.000
1E+12	4	0.705	0.705	0.000
5E+12	5	0.705	0.705	0.000
5E+12	6	0.715	0.715	0.000
5E+12	7	0.705	0.705	0.000
1E+13	8	0.705	0.705	0.000
1E+13	9	0.705	0.705	0.000
1E+13	10	0.705	0.705	0.000
	Max	0.715	0.715	0.000
	Average	0.706	0.706	0.000
	Min	0.695	0.695	0.000
	Std Dev	0.006	0.006	0.000



10.2 __EN_THR_OFF_1p8_3p6	
Test Site	
Tester	
Test Number	
Max Limit	V
Min Limit	V

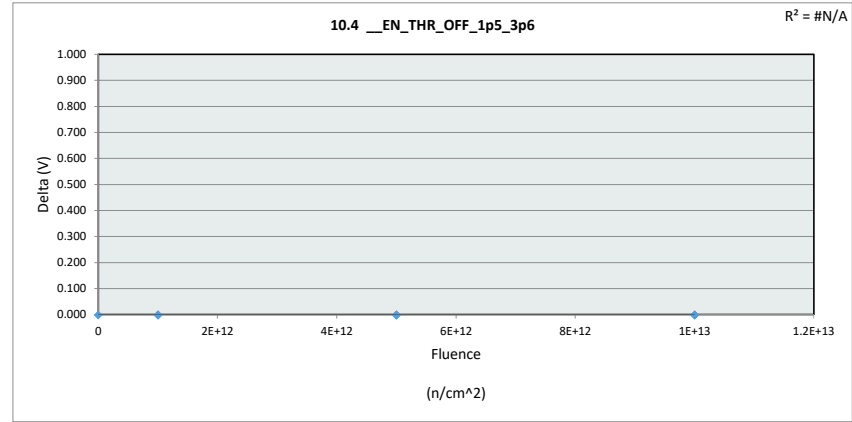
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.300	0.300	0.300	0.300
Min	0.715	0.695	0.705	0.705
Average	0.715	0.702	0.708	0.705
Max	0.715	0.705	0.715	0.705
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

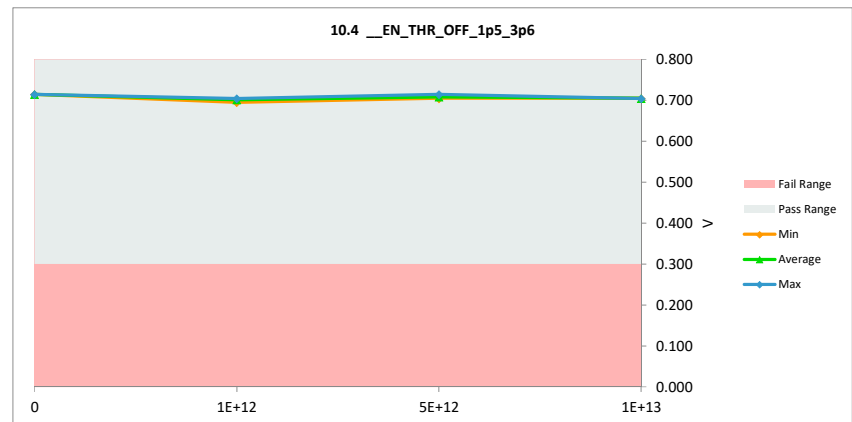
10.4 __EN_THR_OFF_1p5_3p6	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	
Min Limit	0.3 0.3

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.715	0.715	0.000
1E+12	2	0.705	0.705	0.000
1E+12	3	0.695	0.695	0.000
1E+12	4	0.705	0.705	0.000
5E+12	5	0.705	0.705	0.000
5E+12	6	0.715	0.715	0.000
5E+12	7	0.705	0.705	0.000
1E+13	8	0.705	0.705	0.000
1E+13	9	0.705	0.705	0.000
1E+13	10	0.705	0.705	0.000
	Max	0.715	0.715	0.000
	Average	0.706	0.706	0.000
	Min	0.695	0.695	0.000
	Std Dev	0.006	0.006	0.000



10.4 __EN_THR_OFF_1p5_3p6	
Test Site	
Tester	
Test Number	
Max Limit	V
Min Limit	0.3 V

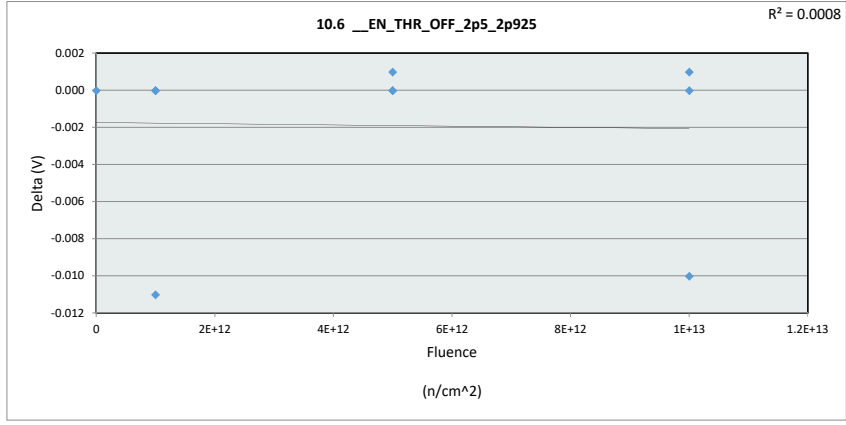
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.300	0.300	0.300	0.300
Min	0.715	0.695	0.705	0.705
Average	0.715	0.702	0.708	0.705
Max	0.715	0.705	0.715	0.705
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

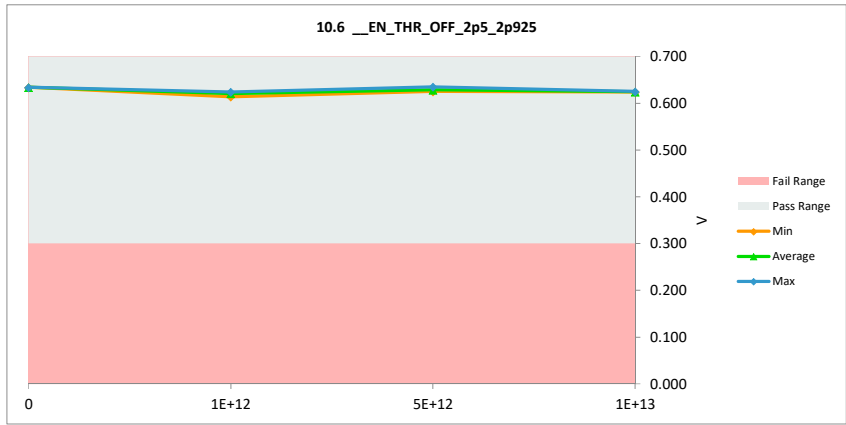
10.6 __EN_THR_OFF_2p5_2p925	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	
Min Limit	0.3 0.3

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.634	0.634	0.000
1E+12	2	0.624	0.624	0.000
1E+12	3	0.614	0.614	0.000
1E+12	4	0.635	0.624	-0.011
5E+12	5	0.624	0.625	0.001
5E+12	6	0.635	0.635	0.000
5E+12	7	0.625	0.625	0.000
1E+13	8	0.634	0.624	-0.010
1E+13	9	0.624	0.625	0.001
1E+13	10	0.624	0.624	0.000
Max		0.635	0.635	0.001
Average		0.627	0.625	-0.002
Min		0.614	0.614	-0.011
Std Dev		0.007	0.006	0.005



10.6 __EN_THR_OFF_2p5_2p925	
Test Site	
Tester	
Test Number	
Max Limit	V
Min Limit	0.3 V

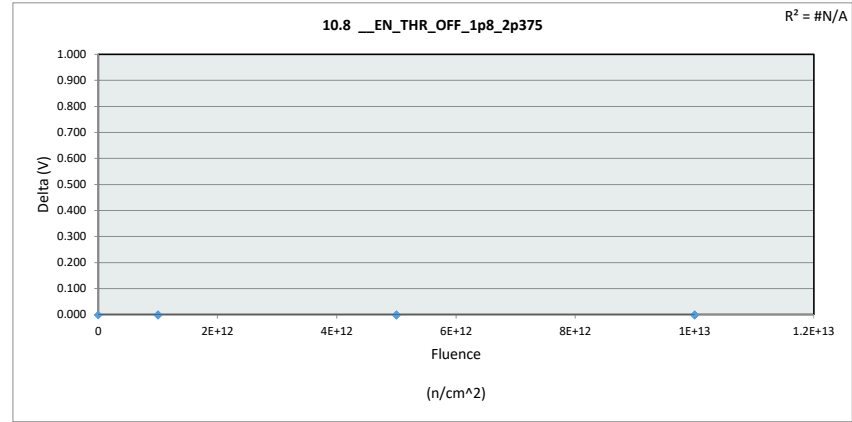
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.300	0.300	0.300	0.300
Min	0.634	0.614	0.625	0.624
Average	0.634	0.621	0.628	0.624
Max	0.634	0.624	0.635	0.625
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

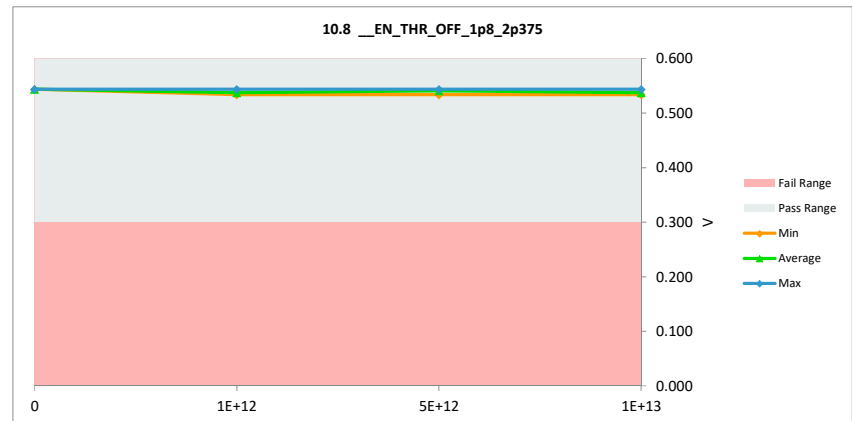
10.8 __EN_THR_OFF_1p8_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	
Min Limit	0.3 0.3

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.544	0.544	0.000
1E+12	2	0.534	0.534	0.000
1E+12	3	0.534	0.534	0.000
1E+12	4	0.544	0.544	0.000
5E+12	5	0.534	0.534	0.000
5E+12	6	0.544	0.544	0.000
5E+12	7	0.544	0.544	0.000
1E+13	8	0.544	0.544	0.000
1E+13	9	0.534	0.534	0.000
1E+13	10	0.534	0.534	0.000
Max		0.544	0.544	0.000
Average		0.539	0.539	0.000
Min		0.534	0.534	0.000
Std Dev		0.005	0.005	0.000



10.8 __EN_THR_OFF_1p8_2p375	
Test Site	
Tester	
Test Number	
Max Limit	V
Min Limit	0.3 V

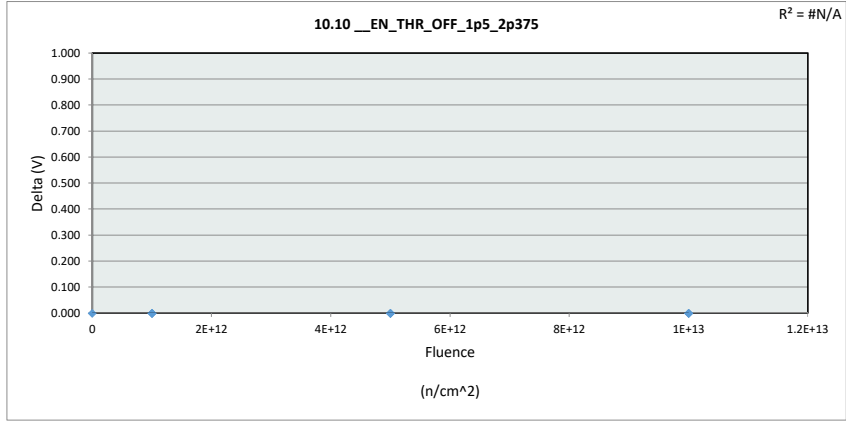
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.300	0.300	0.300	0.300
Min	0.544	0.534	0.534	0.534
Average	0.544	0.537	0.541	0.537
Max	0.544	0.544	0.544	0.544
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

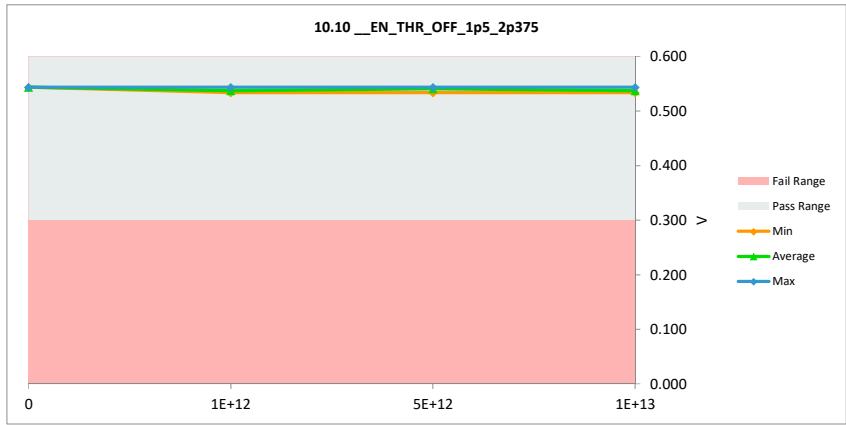
10.10_EN_THR_OFF_1p5_2p375	
Test Site	
Tester	
Test Number	
Unit	V V
Max Limit	
Min Limit	0.3 0.3

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.544	0.544	0.000
1E+12	2	0.534	0.534	0.000
1E+12	3	0.534	0.534	0.000
1E+12	4	0.544	0.544	0.000
5E+12	5	0.534	0.534	0.000
5E+12	6	0.544	0.544	0.000
5E+12	7	0.544	0.544	0.000
1E+13	8	0.544	0.544	0.000
1E+13	9	0.534	0.534	0.000
1E+13	10	0.534	0.534	0.000
Max		0.544	0.544	0.000
Average		0.539	0.539	0.000
Min		0.534	0.534	0.000
Std Dev		0.005	0.005	0.000



10.10_EN_THR_OFF_1p5_2p375	
Test Site	
Tester	
Test Number	
Max Limit	V
Min Limit	0.3 V

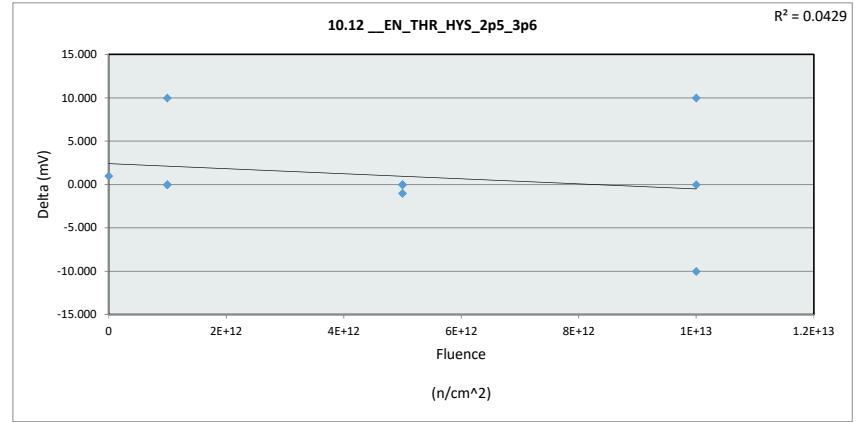
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	0.300	0.300	0.300	0.300
Min	0.544	0.534	0.534	0.534
Average	0.544	0.537	0.541	0.537
Max	0.544	0.544	0.544	0.544
UL				



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

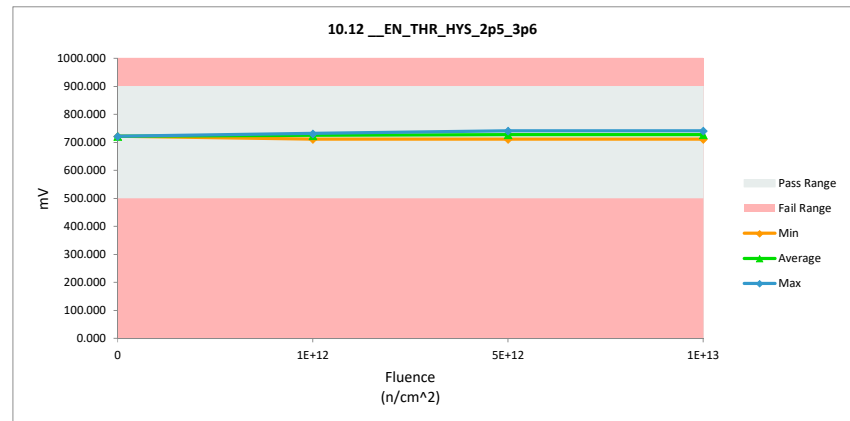
10.12_EN_THR_HYS_2p5_3p6		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	900	900
Min Limit	500	500

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	721.000	722.000	1.000
1E+12	2	721.000	731.000	10.000
1E+12	3	731.000	731.000	0.000
1E+12	4	711.000	711.000	0.000
5E+12	5	742.000	741.000	-1.000
5E+12	6	711.000	711.000	0.000
5E+12	7	731.000	731.000	0.000
1E+13	8	731.000	741.000	10.000
1E+13	9	721.000	711.000	-10.000
1E+13	10	731.000	731.000	0.000
	Max	742.000	741.000	10.000
	Average	725.100	726.100	1.000
	Min	711.000	711.000	-10.000
	Std Dev	9.848	11.742	5.696



10.12_EN_THR_HYS_2p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	900	mV
Min Limit	500	mV

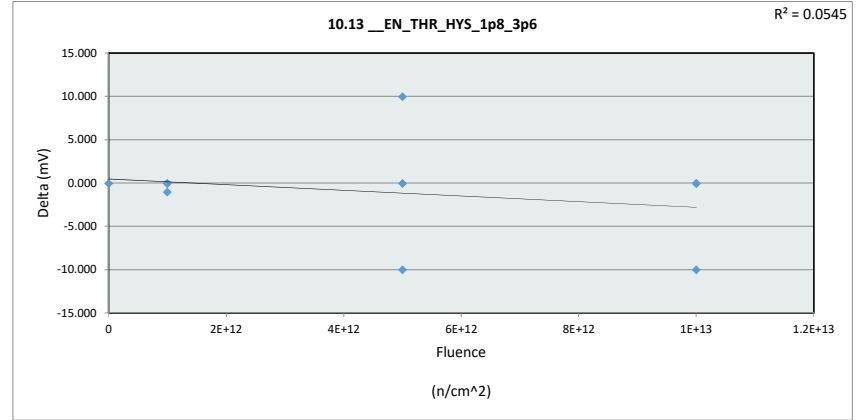
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	500.000	500.000	500.000	500.000
Min	722.000	711.000	711.000	711.000
Average	722.000	724.333	727.667	727.667
Max	722.000	731.000	741.000	741.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

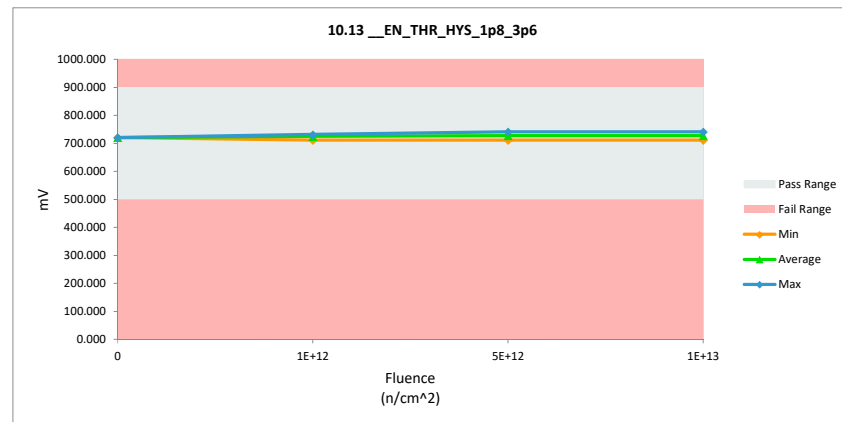
10.13_EN_THR_HYS_1p8_3p6		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	900	900
Min Limit	500	500

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	721.000	721.000	0.000
1E+12	2	731.000	731.000	0.000
1E+12	3	731.000	731.000	0.000
1E+12	4	712.000	711.000	-1.000
5E+12	5	741.000	731.000	-10.000
5E+12	6	711.000	711.000	0.000
5E+12	7	731.000	741.000	10.000
1E+13	8	741.000	741.000	0.000
1E+13	9	721.000	711.000	-10.000
1E+13	10	731.000	731.000	0.000
	Max	741.000	741.000	10.000
	Average	727.100	726.000	-1.100
	Min	711.000	711.000	-10.000
	Std Dev	10.588	11.785	5.666



10.13_EN_THR_HYS_1p8_3p6		
Test Site		
Tester		
Test Number		
Max Limit	900	mV
Min Limit	500	mV

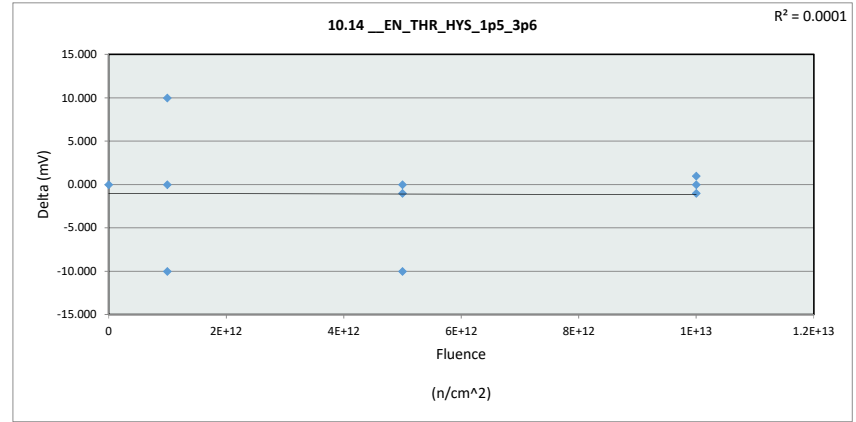
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	500.000	500.000	500.000	500.000
Min	721.000	711.000	711.000	711.000
Average	721.000	724.333	727.667	727.667
Max	721.000	731.000	741.000	741.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

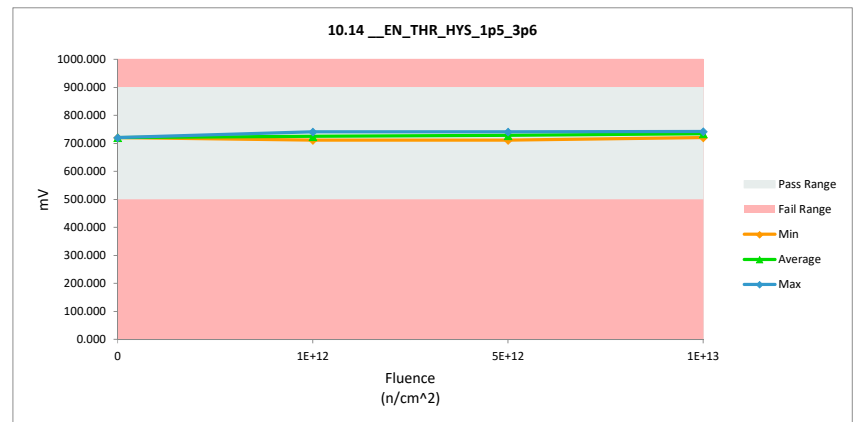
10.14_EN_THR_HYS_1p5_3p6		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	900	900
Min Limit	500	500

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	721.000	721.000	0.000
1E+12	2	731.000	721.000	-10.000
1E+12	3	731.000	741.000	10.000
1E+12	4	711.000	711.000	0.000
5E+12	5	741.000	741.000	0.000
5E+12	6	721.000	711.000	-10.000
5E+12	7	732.000	731.000	-1.000
1E+13	8	742.000	741.000	-1.000
1E+13	9	721.000	721.000	0.000
1E+13	10	741.000	742.000	1.000
	Max	742.000	742.000	10.000
	Average	729.200	728.100	-1.100
	Min	711.000	711.000	-10.000
	Std Dev	10.486	12.635	5.685



10.14_EN_THR_HYS_1p5_3p6		
Test Site		
Tester		
Test Number		
Max Limit	900	mV
Min Limit	500	mV

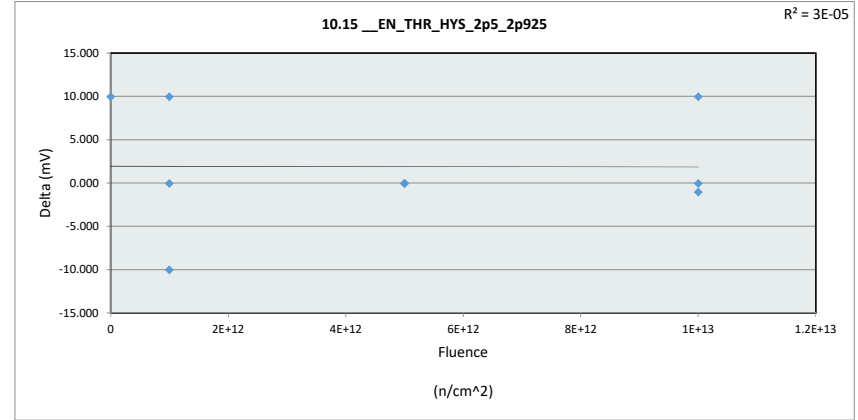
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	500.000	500.000	500.000	500.000
Min	721.000	711.000	711.000	721.000
Average	721.000	724.333	727.667	734.667
Max	721.000	741.000	741.000	742.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

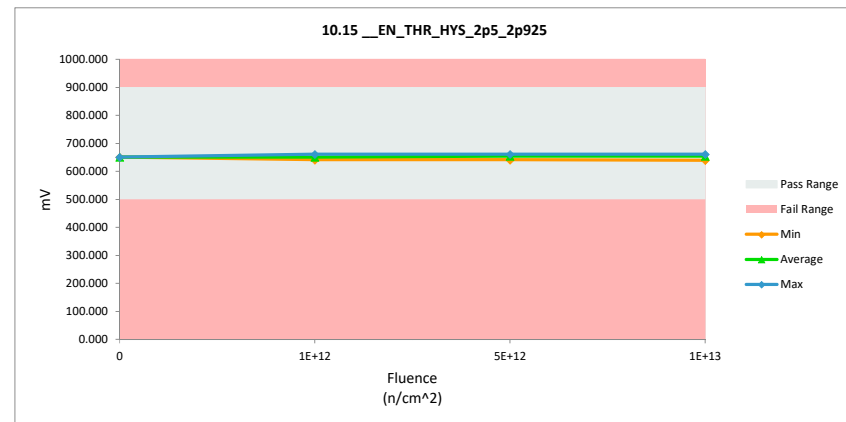
10.15_EN_THR_HYS_2p5_2p925		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	900	900
Min Limit	500	500

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	641.000	651.000	10.000
1E+12	2	661.000	651.000	-10.000
1E+12	3	661.000	661.000	0.000
1E+12	4	631.000	641.000	10.000
5E+12	5	661.000	661.000	0.000
5E+12	6	641.000	641.000	0.000
5E+12	7	661.000	661.000	0.000
1E+13	8	651.000	661.000	10.000
1E+13	9	641.000	640.000	-1.000
1E+13	10	661.000	661.000	0.000
	Max	661.000	661.000	10.000
	Average	651.000	652.900	1.900
	Min	631.000	640.000	-10.000
	Std Dev	11.547	9.339	6.367



10.15_EN_THR_HYS_2p5_2p925		
Test Site		
Tester		
Test Number		
Max Limit	900	mV
Min Limit	500	mV

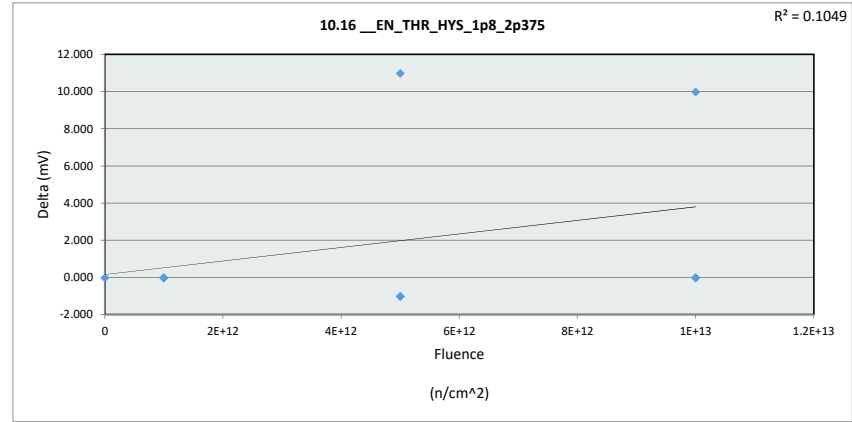
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	500.000	500.000	500.000	500.000
Min	651.000	641.000	641.000	640.000
Average	651.000	651.000	654.333	654.000
Max	651.000	661.000	661.000	661.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

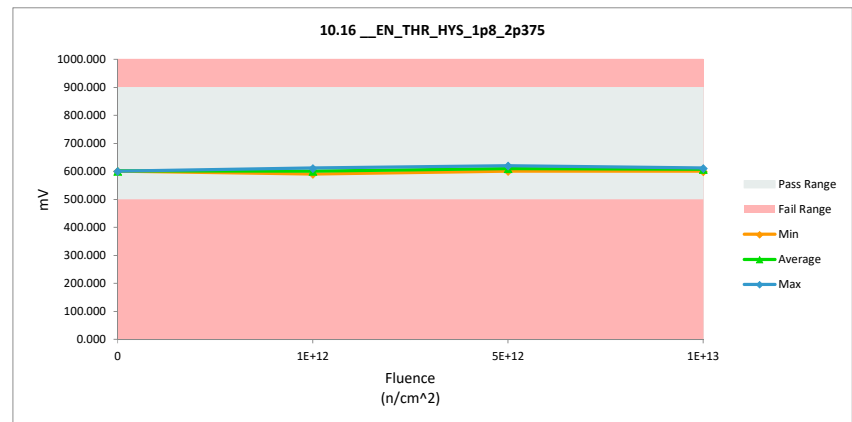
10.16_EN_THR_HYS_1p8_2p375		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	900	900
Min Limit	500	500

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	601.000	601.000	0.000
1E+12	2	611.000	611.000	0.000
1E+12	3	601.000	601.000	0.000
1E+12	4	590.000	590.000	0.000
5E+12	5	621.000	620.000	-1.000
5E+12	6	590.000	601.000	11.000
5E+12	7	611.000	610.000	-1.000
1E+13	8	600.000	610.000	10.000
1E+13	9	600.000	600.000	0.000
1E+13	10	611.000	611.000	0.000
Max		621.000	620.000	11.000
Average		603.600	605.500	1.900
Min		590.000	590.000	-1.000
Std Dev		9.868	8.449	4.557



10.16_EN_THR_HYS_1p8_2p375		
Test Site		
Tester		
Test Number		
Max Limit	900	mV
Min Limit	500	mV

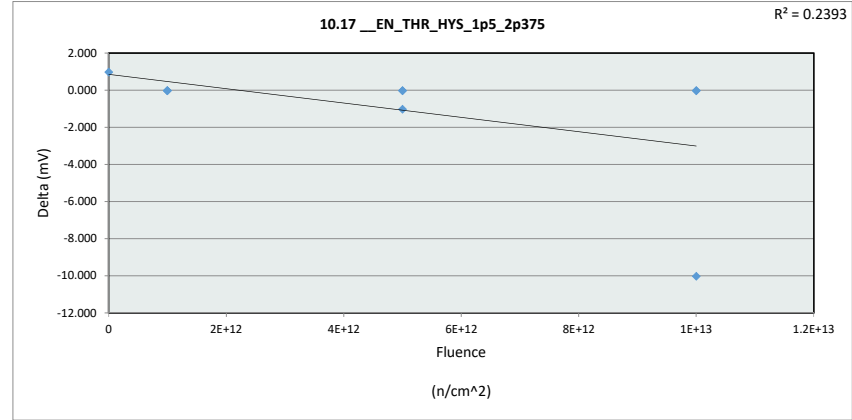
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	500.000	500.000	500.000	500.000
Min	601.000	590.000	601.000	600.000
Average	601.000	600.667	610.333	607.000
Max	601.000	611.000	620.000	611.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

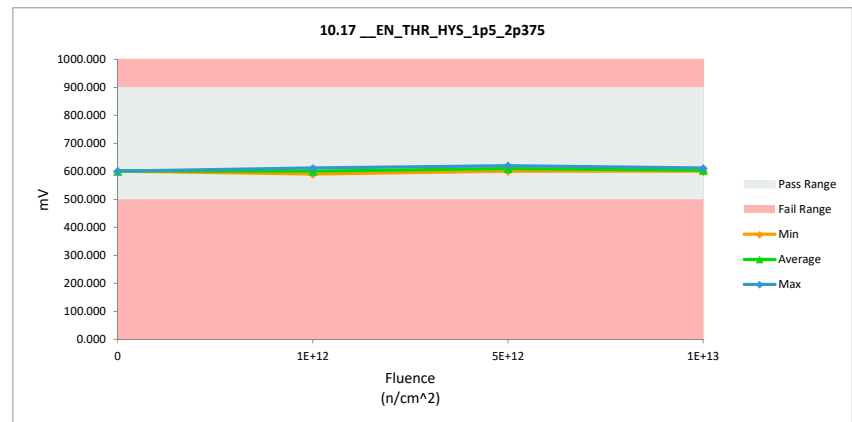
10.17 __EN_THR_HYS_1p5_2p375		
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	900	900
Min Limit	500	500

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	600.000	601.000	1.000
1E+12	2	611.000	611.000	0.000
1E+12	3	601.000	601.000	0.000
1E+12	4	590.000	590.000	0.000
5E+12	5	620.000	620.000	0.000
5E+12	6	601.000	601.000	0.000
5E+12	7	611.000	610.000	-1.000
1E+13	8	610.000	600.000	-10.000
1E+13	9	600.000	600.000	0.000
1E+13	10	611.000	611.000	0.000
	Max	620.000	620.000	1.000
	Average	605.500	604.500	-1.000
	Min	590.000	590.000	-10.000
	Std Dev	8.580	8.449	3.197



10.17 __EN_THR_HYS_1p5_2p375		
Test Site		
Tester		
Test Number		
Max Limit	900	mV
Min Limit	500	mV

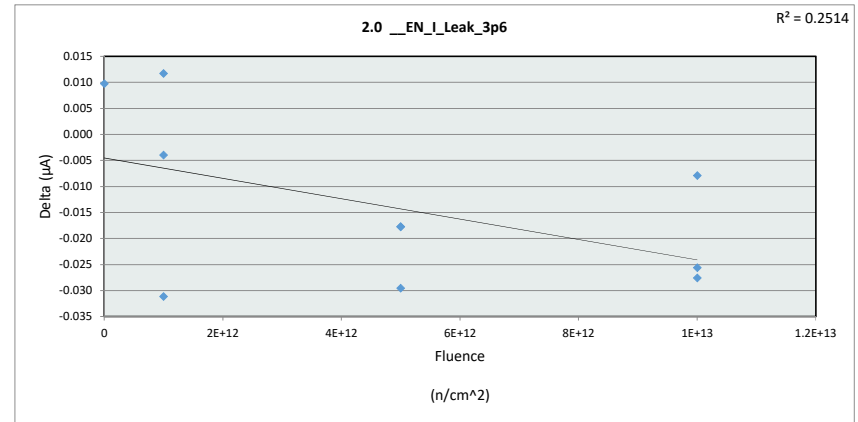
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	500.000	500.000	500.000	500.000
Min	601.000	590.000	601.000	600.000
Average	601.000	600.667	610.333	603.667
Max	601.000	611.000	620.000	611.000
UL	900.000	900.000	900.000	900.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

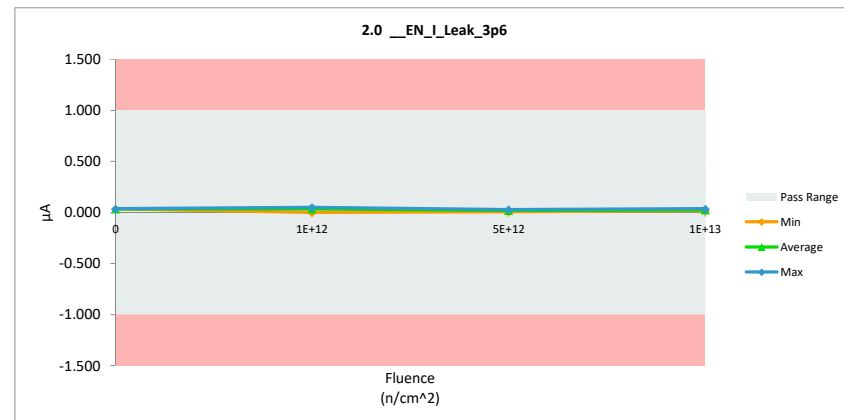
2.0 __EN_I_Leak_3p6	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	1
Min Limit	-1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.026	0.036	0.010
1E+12	2	0.040	0.052	0.012
1E+12	3	0.054	0.050	-0.004
1E+12	4	0.032	0.001	-0.031
5E+12	5	0.024	0.007	-0.018
5E+12	6	0.040	0.022	-0.018
5E+12	7	0.060	0.030	-0.029
1E+13	8	0.048	0.022	-0.026
1E+13	9	0.044	0.036	-0.008
1E+13	10	0.046	0.018	-0.028
Max		0.060	0.052	0.012
Average		0.041	0.028	-0.014
Min		0.024	0.001	-0.031
Std Dev		0.011	0.017	0.016



2.0 __EN_I_Leak_3p6	
Test Site	
Tester	
Test Number	
Max Limit	1 μA
Min Limit	-1 μA

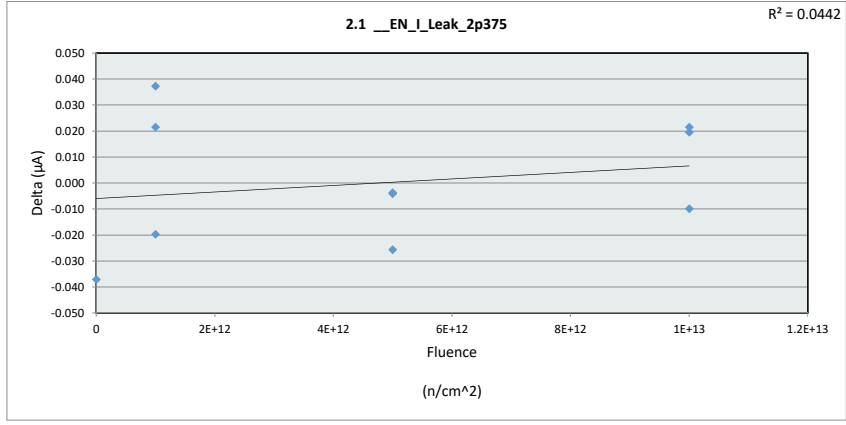
Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-1.000	-1.000	-1.000	-1.000
Min	0.036	0.001	0.007	0.018
Average	0.036	0.034	0.020	0.026
Max	0.036	0.052	0.030	0.036
UL	1.000	1.000	1.000	1.000



Neutron Displacement Damage (NDD) Report TPS7H3302-SEP

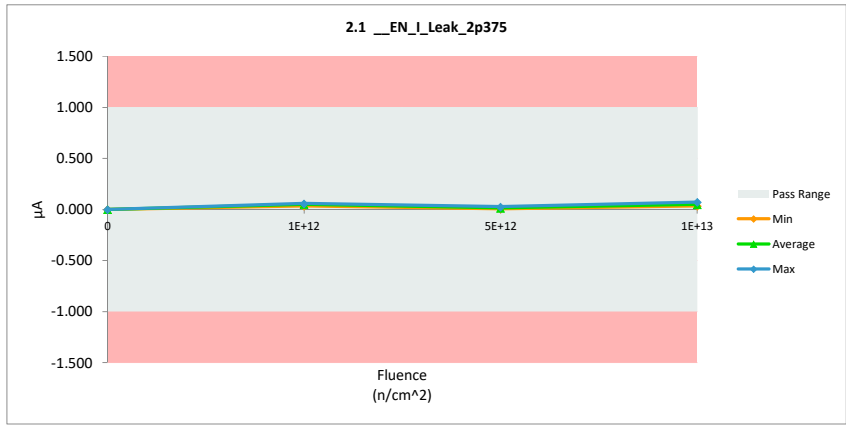
2.1 __EN_I_Leak_2p375		
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	1	1
Min Limit	-1	-1

Fluence (n/cm ²)	Serial #	PRE	POST	Delta
0	1	0.038	0.001	-0.037
1E+12	2	0.056	0.036	-0.020
1E+12	3	0.036	0.058	0.022
1E+12	4	0.020	0.058	0.037
5E+12	5	0.030	0.026	-0.004
5E+12	6	0.015	0.011	-0.004
5E+12	7	0.032	0.007	-0.026
1E+13	8	0.020	0.040	0.020
1E+13	9	0.044	0.034	-0.010
1E+13	10	0.050	0.072	0.022
	Max	0.056	0.072	0.037
	Average	0.034	0.034	0.000
	Min	0.015	0.001	-0.037
	Std Dev	0.013	0.024	0.024



2.1 __EN_I_Leak_2p375		
Test Site		
Tester		
Test Number		
Max Limit	1	µA
Min Limit	-1	µA

Fluence (n/cm ²)	0	1E+12	5E+12	1E+13
LL	-1.000	-1.000	-1.000	-1.000
Min	0.001	0.036	0.007	0.034
Average	0.001	0.051	0.015	0.049
Max	0.001	0.058	0.026	0.072
UL	1.000	1.000	1.000	1.000



B Revision History

Changes from Revision * (March 2023) to Revision A (February 2024)	Page
• Added TPS3302-SP to document.....	1
• Updated formatting throughout document.....	1
• Added reference documents to Section 4.1	9

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](https://www.ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2024, Texas Instruments Incorporated