Radiation Report

TPS7H5001-SP Neutron Displacement Damage (NDD) Characterization

ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the TPS7H5001-SP PWM controller. The TPS7H5001-SP showed a strong degree of hardness to neutron irradiation up to fluence level 1×10^{13} n/cm^2.

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

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Trademarks

1 Device Information

1.1 Product Description

The TPS7H5001-SP is a radiation-hardness-assured, current mode, dual output PWM controller optimized for DC-DC converters in space applications. The high switching frequency capability of the TPS7H5001-SP, small footprint, and low-current consumption makes the device ideal for fully exploiting the area reduction and high-efficiency benefits of DC-DC converters. The TPS7H5001-SP features integrated synchronous rectifier control outputs and dead-time programmability in order to target high-efficiency and high-performance topologies. In addition, the TPS7H5001-SP supports single-ended converter topologies by providing the user the flexibility to control the maximum duty cycle.

The TPS7H5001-SP can be driven using an external clock through the SYNC pin or run using its internal oscillator at a frequency programmed by the user. Other programmable features include the UVLO threshold, soft start, and slope compensation. The TPS7H5001-SP is packaged in a very small 22-pin ceramic dual flat 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	TPS7H5001-SP
TI Part Name	5962R1822201VXC
Device Function	PWM controller
Package	22-pin CFP (HFT)
Technology	LBC7
Lot Number / Date Code	1003547 / 2114A
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. TPS7H5001-SP Device

2 Total Dose Test Setup

2.1 Test Overview

General test procedures adhere to MIL-STD-883, Method 1017 as a guide for neutron irradiation. The TPS7H5001-SP was electrically tested using the production automated test equipment (ATE) program at an ambient room temperature of 25°C before and after neutron irradiation.

2.2 Test Facility

The utilized test facility is the Fast Neutron Irradiation (FNI) Facility of University of Massachusetts Lowell Research Reactor. The neutron fluence for this irradiation was measured utilizing 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, this includes: neutron fluence, distribution and uncertainty. The Average Integrated Neutron Fluence, 1-MeV(Si) equivalent, reflects these factors.

Detailed information of the radiation facility is available at the following link:

https://www.uml.edu/docs/FNI%20Brochure_tcm18-90375.pdf

2.3 Test Setup Details

Devices were irradiated at three fluence levels in unbiased conditions: 1.0×10^{12} n/cm^2, 5.0×10^{12} n/cm^2 and 1.0×10^{13} n/cm^2.

Table 2-1. Neutron Irradiation Conditions

GROUP	SAMPLE QTY	NEUTRON FLUENCE (n/cm^2)	BIAS
A	3	1.0×10^{12}	Unbias
B	3	5.0×10^{12}	Unbias
C	3	1.0×10^{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 unirradiated control unit was used as correlation.

Overall, the TPS7H5001-SP showed a strong degree of hardness to Neutron irradiation up to fluence level 1 × 10^{13} n/cm^2. The measurements taken post-irradiation for each sample set showed a marginal shift for most parameters at each fluence level. The parameters that showed a greater degree of change between pre- and post- irradiation were still within the Electrical Performance Characteristics specified in the Data Sheet Electrical Parameters table. See Table 3-1 for the Data Sheet Electrical Parameters and Associated Tests.

Electrical testing is done for pre- and post- neutron irradiation by ATE. ATE electrical test is done at an ambient room temperature of 25°C. Parameters not listed in the Table 3-1 are omitted either because there is no parametric data or because verification was done through bench testing.

See Appendix A for NDD report up to 1.0 × 10^{13} n/cm^2.

3.2 Data Sheet Electrical Parameters and Associated Tests

Table 3-1. TPS7H5001-SP Electrical Parameters Table

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
SUPPLY VOLTAGES AND CURRENTS						
IDD Operating supply current	f_{SW} = 500 kHz, No load for OUTA, OUTB, SRA, and SRB		6.25	8	mA	5.24 __IDD_ACT_500K_NOLOAD_4V 5.27 __IDD_ACT_500K_NOLOAD_14V
	f_{SW} = 1 MHz, No load for OUTA, OUTB, SRA, and SRB		6.75	9.5	mA	5.28 __IDD_ACT_1M_NOLOAD_4V 5.31 __IDD_ACT_1M_NOLOAD_14
	f_{SW} = 2 MHz, No load for OUTA, OUTB, SRA, and SRB		8.5	13.5	mA	5.36 __IDD_ACT_2M_NOLOAD_4V 5.39 __IDD_ACT_2M_NOLOAD_14V
	f_{SW} = 500 kHz, C_{LOAD} = 100 pF for OUTA, OUTB, SRA, and SRB		7.5	9.5	mA	5.48 __IDD_ACT_500K_4V 5.51 __IDD_ACT_500K_14V
	f_{SW} = 1 MHz, C_{LOAD} = 100 pF for OUTA, OUTB, SRA, and SRB		9	12	mA	5.52 __IDD_ACT_1M_4V 5.55 __IDD_ACT_1M_14V
	f_{SW} = 2 MHz, C_{LOAD} = 100 pF for OUTA, OUTB, SRA, and SRB		14	19.5	mA	5.60 __IDD_ACT_2M_4V 5.63 __IDD_ACT_2M_14V
$I_{DD(dis)}$ Standby current	EN = 0 V			3	mA	5.1 __IDD_DIS_4V 5.4 __IDD_DIS_14V

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
VLDO Internal linear regulator output voltage	5 V ≤VIN ≤ 14 V, fsw ≤ 1 MHz	4.75	5	5.2	V	5.65 __V_LDO_100K_5V 5.67 __V_LDO_100K_14 V 5.77 __V_LDO_1M_5V 5.79 __V_LDO_1M_14V
	5 V ≤ VIN ≤ 14 V, fsw = 2 MHz	4.65	5	5.2	V	5.85 __V_LDO_2M_5V 5.87 __V_LDO_2M_14V
ENABLE AND UNDERVOLTAGE LOCKOUT						
V_{ENR} EN threshold rising		0.57	0.6	0.63	V	6.5 __V_EN_RISE_4V 6.14 __V_EN_RISE_14V
V_{ENF} EN threshold falling		0.47	0.5	0.53	V	6.6 __V_EN_FALL_4V 6.15 __V_EN_FALL_14V
V_{ENH} EN hysteresis voltage		85	95	105	mV	6.7 __V_EN_HYS_4V 6.16 __V_EN_HYS_14V,
I_{EN} EN pin input leakage current	VIN = 14 V, EN = 5 V			25	nA	6.4 __I_EN_LEAK_14V
$VLDO_{UVLOR}$ UVLO rising		3.44	3.55	3.66	V	6.34 __UVLO_VLDO_RIS E_1MHz 6.37 __UVLO_VLDO_RIS E_100kHz
$VLDO_{UVLOF}$ UVLO falling		3.29	3.4	3.51	V	6.35 __UVLO_VLDO_FAL L_1MHz 6.38 __UVLO_VLDO_FAL L_100kHz
$VLDO_{UVLOH}$ UVLO hysteresis		115	135	160	mV	6.36 __UVLO_VLDO_HY S_1MHz 6.39 __UVLO_VLDO_HY S_100kHz
SOFT START						
I_{SS} Soft-start current	SS = 0.3 V	1.98	2.7	3.32	µA	7.1 __I_SS_4V 7.7 __I_SS_14V

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
ERROR AMPLIFIER						
EA_{gm} Transconductance	–2 µA < I_{COMP} < 2 µA, $V_{(COMP)}$ = 1 V	1150	1800	2400	µA/V	8.9 __EA_GM_4V 8.12 __EA_GM_14V
EA_{ISRC} Error amplifier source current	$V_{(COMP)}$ = 1 V, 100-mV input overdrive	100		190	µA	8.13 __EA_I_SOURCE_4V 8.16 __EA_I_SOURCE_14V
EA_{ISNK} Error amplifier sink current	$V_{(COMP)}$ = 1 V, 100-mV input overdrive	100		190	µA	8.17 __EA_I_SINK_4V 8.20 __EA_I_SINK_14V
EA_{OS} Error amplifier offset voltage		–2		2	mV	8.5 __EA_OS_4V 8.8 __EA_OS_14V
OSCILLATOR						
$SYNC_{RT}$ SYNC out low-to-high rise time (10%/90%)	C_{LOAD} = 25 pF		6	15	ns	9.1 __T_SYNC_RISE_100kHz_4V 9.21 __T_SYNC_RISE_2MHz_4V 9.73 __T_SYNC_RISE_100kHz_14V 9.93 __T_SYNC_RISE_2MHz_14V
$SYNC_{FT}$ SYNC out high-to-low fall time (10%/90%)	C_{LOAD} = 25 pF		6	17	ns	9.2 __T_SYNC_FALL_100kHz_4V 9.22 __T_SYNC_FALL_2MHz_4V 9.74 __T_SYNC_FALL_100kHz_14V 9.94 __T_SYNC_FALL_2MHz_14V
$SYNC_{OL}$ SYNC out low level	I_{OL} = 10 mA			500	mV	9.186__SYNC_VOL_4V 9.189__SYNC_VOL_14V
EXT_{DT} Externally set frequency detection time	RT = Open, f = 200 kHz			20	µs	9.185__T_SYNC_DETECT

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
FSW_{EXT} Externally set frequency	RT = 1.07 MΩ	95	105	115	kHz	9.4 __FSW_EXT_RT_100kHz_4V 9.76 __FSW_EXT_RT_100kHz_14V
	RT = 511 kΩ	190	210	230	kHz	9.8 __FSW_EXT_RT_200kHz_4V 9.80 __FSW_EXT_RT_200kHz_14V
	RT =90.9 kΩ	900	1000	1100	kHz	9.16 __FSW_EXT_RT_1MHz_4V 9.88 __FSW_EXT_RT_1MHz_14V
	RT = 34.8 kΩ	1700	2000	2300	kHz	9.24 __FSW_EXT_RT_2MHz_4V 9.96 __FSW_EXT_RT_2MHz_14V
VOLTAGE REFERENCE						
VREF Internal voltage reference initial tolerance(1)	Measured at COMP, 25°C	0.609	0.613	0.615	V	8.1 __VREF_4V 8.4 __VREF_14V
REFCAP REFCAP voltage	REFCAP = 470 nF	1.213	1.225	1.237	V	5.88 __V_REFCAP_100K_4V 5.91 __V_REFCAP_100K_14V 5.100__V_REFCAP_1M_4V 5.103__V_REFCAP_1M_14V 5.104__V_REFCAP_1P5M_4V 5.107__V_REFCAP_1P5M_14V 5.108__V_REFCAP_2M_4V 5.111__V_REFCAP_2M_14V
CURRENT SENSE, CURRENT LIMIT, AND HICCUP						
CCSR COMP to CS_LIM ratio		2	2.06	2.12		10.49 __CCSR_Ratio

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
V_{CS_ILIM} Current limit (over-current) threshold			1.05	1.09	V	10.1 __V_CS_ILIM_OC_Rise_4V 10.7 __V_CS_ILIM_OC_Rise_14V
FAULT						
V_{FLTR} FLT threshold rising		0.57	0.6	0.63	V	12.1 __V_FAULT_RISE_4V 12.10 __V_FAULT_RISE_14V
V_{FLTF} FLT threshold falling		0.47	0.5	0.53	V	12.2 __V_FAULT_FALL_4V 12.11 __V_FAULT_FALL_14V
V_{FLTH} FLT hysteresis voltage		90	100	110	mV	12.3 __V_FAULT_HYS_4V 12.12 __V_FAULT_HYS_14V
T_{FLT} FLT minimum pulse width	V_{FLT} = 1 V	0.4		1.4	µs	12.14 __T_FAULT_MIN
t_{DFLT} FLT delay duration	f_{sw} = 100 kHz	140	152	162	µs	12.15 __T_FAULT_DELAY_100kHz
	f_{sw} = 200 kHz	66	78	86	µs	12.17 __T_FAULT_DELAY_200kHz
	f_{sw} = 1 MHz	14	17	21	µs	12.21 __T_FAULT_DELAY_1MHz
	f_{sw} = 2 MHz	7	11	14	µs	12.23 __T_FAULT_DELAY_2MHz

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
PRIMARY AND SYNCHRONOUS RECTIFIER OUTPUTS						
Rise/fall time	R_{LOAD} = 50 kΩ, C_{LOAD} = 100 pF, 10% to 90%		10	17	ns	13.1 __OUTA_RISE_1MHz_4V 13.25 __OUTA_RISE_1MHz_14V 13.3 __OUTA_FALL_1MHz_4V 13.27 __OUTA_FALL_1MHz_14V 13.2 __OUTB_RISE_1MHz_4V 13.26 __OUTB_RISE_1MHz_14V 13.4 __OUTB_FALL_1MHz_4V 13.28 __OUTB_FALL_1MHz_14V 13.5 __SRA_RISE_1MHz_4V 13.29 __SRA_RISE_1MHz_14V 13.7 __SRA_FALL_1MHz_4V 13.31 __SRA_FALL_1MHz_14V 13.6 __SRB_RISE_1MHz_4V 13.30 __SRB_RISE_1MHz_14V 13.8 __SRB_FALL_1MHz_4V 13.32 __SRB_FALL_1MHz_14V
t_{MIN} Minimum on-time LEB = 10 kΩ	LEB = 10 kΩ, 5 V ≤ VIN ≤ 14 V			85	ns	13.241__OUT_T_ON_MIN

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
TD_{PS} Primary off to secondary on dead time	PS = floating, 5 V < VIN < 14 V, 90% of OUTx falling edge to 10% of SRx rising edge with OUTx and SRx floating	5	8	11	ns	13.37 __PSA_DT_0ns_1M_5V 13.38 __PSB_DT_0ns_1M_5V 13.45 __PSA_DT_0ns_1M_14V 13.46 __PSB_DT_0ns_1M_14V
	PS = 49.9 kΩ, 5 V < VIN < 14 V, 90% of OUTx falling edge to 10% of SRx rising edge with OUTx and SRx floating	43	50	55	ns	13.53 __PSA_DT_50ns_1M_5V 13.54 __PSB_DT_50ns_1M_5V 13.61 __PSA_DT_50ns_1M_14V 13.62 __PSB_DT_50ns_1M_14V
	PS = 107 kΩ, 5 V < VIN < 14 V, 90% of OUTx falling edge to 10% of SRx rising edge with OUTx and SRx floating	85	100	110	ns	13.69 __PSA_DT_100ns_1M_5V 13.70 __PSB_DT_100ns_1M_5V 13.77 __PSA_DT_100ns_1M_14V 13.78 __PSB_DT_100ns_1M_14V

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
TD_{SP} Secondary off to primary on dead time	SP = floating, 5 V < VIN < 14 V, 90% of SRx falling edge to 10% of OUTx rising edge with OUTx and SRx floating	5	8	11	ns	13.39 __SPA_DT_0ns_1M_5V 13.40 __SPB_DT_0ns_1M_5V 13.47 __SPA_DT_0ns_1M_14V 13.48 __SPB_DT_0ns_1M_14V
	SP = 49.9 kΩ, 5 V < VIN < 14 V, 90% of SRx falling edge to 10% of OUTx rising edge with OUTx and SRx floating	43	50	55	ns	13.55 __SPA_DT_50ns_1M_5V 13.56 __SPB_DT_50ns_1M_5V 13.63 __SPA_DT_50ns_1M_14V 13.64 __SPB_DT_50ns_1M_14V
	SP = 100 kΩ, 5 V < VIN < 14V, 90% of SRx falling edge to 10% of OUTx rising edge with OUTx and SRx floating	85	100	110	ns	13.71 __SPA_DT_100ns_1M_5V 13.72 __SPB_DT_100ns_1M_5V 13.79 __SPA_DT_100ns_1M_14V 13.80 __SPB_DT_100ns_1M_14V
DUTY CYCLE						
T_{LEB} Leading edge blank time	LEB = 10 kΩ, 5 V < VIN < 14 V	12	15	19	ns	13.243__T_LEB_10ns_5V 13.245__T_LEB_10ns_14V
	LEB = 49.9 kΩ, 5 V < VIN < 14 V	45	50	55	ns	13.247__T_LEB_50ns_5V 13.249__T_LEB_50ns_14V
	LEB = 110 kΩ, 5 V < VIN < 14 V	85	100	110	ns	13.251__T_LEB_100ns_5V 13.253__T_LEB_100ns_14V
D_{MAX} Maximum duty cycle	DCL = AVSS	45%	48%	50%		13.256__MAX_DC_DCL_AVSS

Table 3-1. TPS7H5001-SP Electrical Parameters Table (continued)

PARAMETER	TEST CONDITION	TPS7H5001-SP DATA SHEET				TEST #
		MIN	TYP	MAX	UNIT	
	DCL = floating	70%	75%	80%		13.259__MAX_DC_DCL_OPEN
	DCL = VLDO			100%		13.262__MAX_DC_DCL_VLDO

(1) Measured at COMP pin to include error amplifier offset.

4 Applicable and Reference Documents

4.1 Applicable Documents

- Texas Instruments, *TPS7H5001-SP Radiation-Hardness-Assured Si and GaN Dual Output Controller* data sheet
- Texas Instruments, *TPS7H5001EVM-CVAL Evaluation Module* user's guide
- Texas Instruments, *TPS7H5001-SP Single-Event Effects (SEE)* radiation report

4.2 Reference Documents

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

A Appendix: NDD Report Data

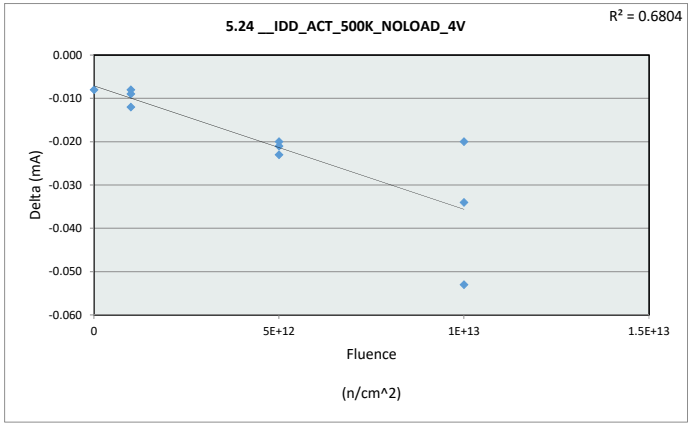
This appendix contains the NDD report data.

Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

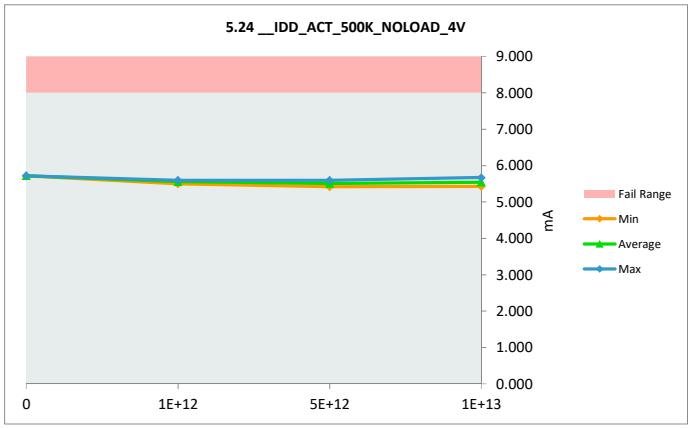
	5.24 __IDD_ACT_500K_NOLOAD_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	8	8
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	5.725	5.717	-0.008
1E+12	45	5.581	5.569	-0.012
1E+12	46	5.602	5.594	-0.008
1E+12	54	5.507	5.498	-0.009
5E+12	57	5.543	5.520	-0.023
5E+12	58	5.440	5.420	-0.020
5E+12	60	5.616	5.595	-0.021
1E+13	62	5.563	5.529	-0.034
1E+13	65	5.689	5.669	-0.020
1E+13	66	5.479	5.426	-0.053
	Max	5.725	5.717	-0.008
	Average	5.575	5.554	-0.021
	Min	5.440	5.420	-0.053
	Std Dev	0.089	0.096	0.014



	5.24 __IDD_ACT_500K_NOLO			
Test Site				
Tester				
Test Number				
Max Limit	8	mA		
Min Limit		mA		

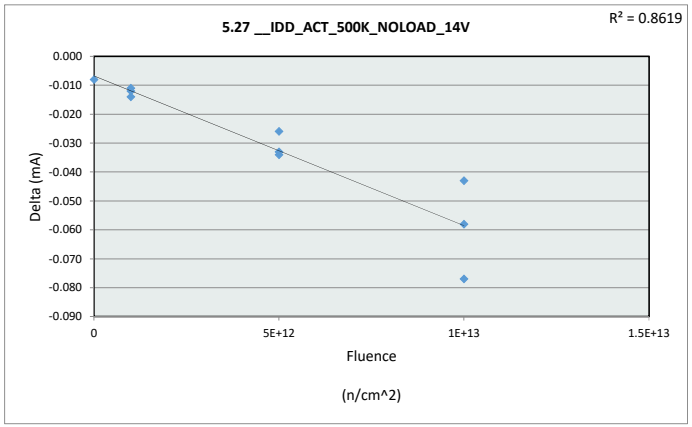
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	5.717	5.498	5.420	5.426
Average	5.717	5.554	5.512	5.541
Max	5.717	5.594	5.595	5.669
UL	8.000	8.000	8.000	8.000



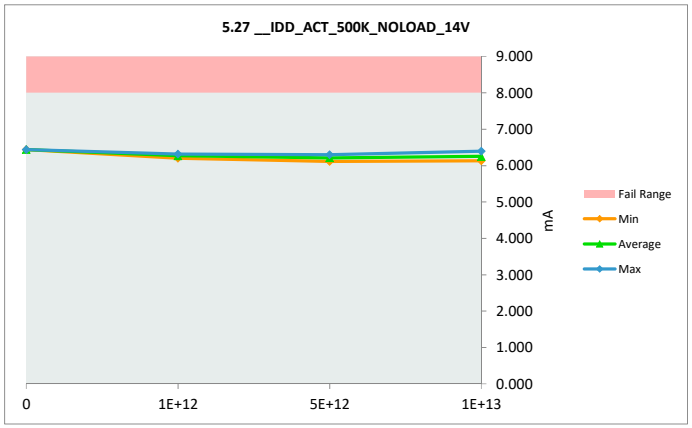
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.27 __IDD_ACT_500K_NOLOAD_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	8	8
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.448	6.440	-0.008
1E+12	45	6.303	6.291	-0.012
1E+12	46	6.326	6.315	-0.011
1E+12	54	6.214	6.200	-0.014
5E+12	57	6.248	6.214	-0.034
5E+12	58	6.143	6.117	-0.026
5E+12	60	6.335	6.302	-0.033
1E+13	62	6.285	6.227	-0.058
1E+13	65	6.438	6.395	-0.043
1E+13	66	6.206	6.129	-0.077
	Max	6.448	6.440	-0.008
	Average	6.295	6.263	-0.032
	Min	6.143	6.117	-0.077
	Std Dev	0.098	0.106	0.023



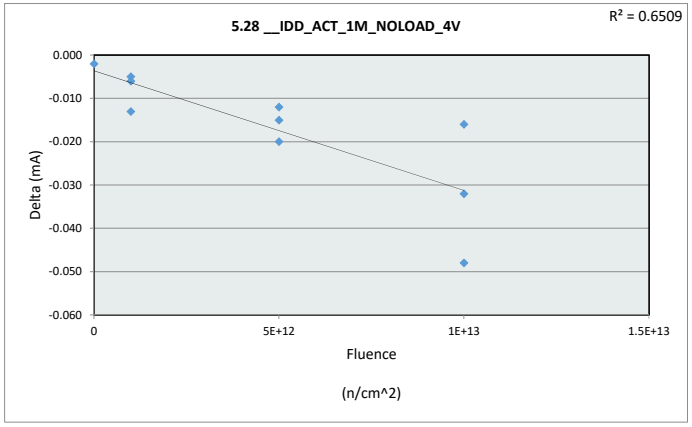
	5.27 __IDD_ACT_500K_NOLO			
Test Site				
Tester				
Test Number				
Max Limit	8	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.440	6.200	6.117	6.129
Average	6.440	6.269	6.211	6.250
Max	6.440	6.315	6.302	6.395
UL	8.000	8.000	8.000	8.000



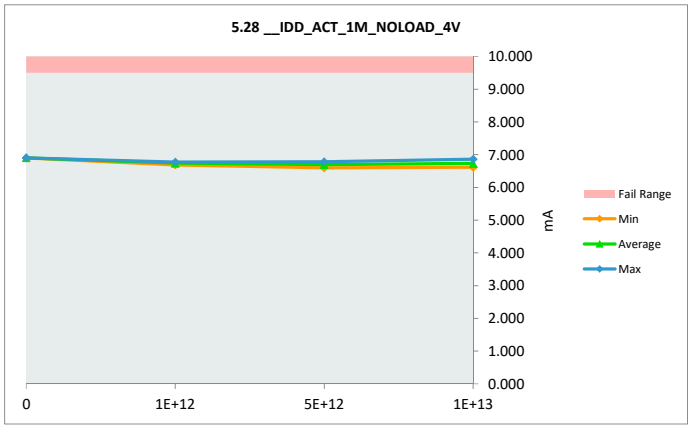
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.28 __IDD_ACT_1M_NOLOAD_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.905	6.903	-0.002
1E+12	45	6.766	6.760	-0.006
1E+12	46	6.779	6.774	-0.005
1E+12	54	6.699	6.686	-0.013
5E+12	57	6.717	6.702	-0.015
5E+12	58	6.608	6.596	-0.012
5E+12	60	6.802	6.782	-0.020
1E+13	62	6.750	6.718	-0.032
1E+13	65	6.879	6.863	-0.016
1E+13	66	6.658	6.610	-0.048
	Max	6.905	6.903	-0.002
	Average	6.756	6.739	-0.017
	Min	6.608	6.596	-0.048
	Std Dev	0.092	0.099	0.014



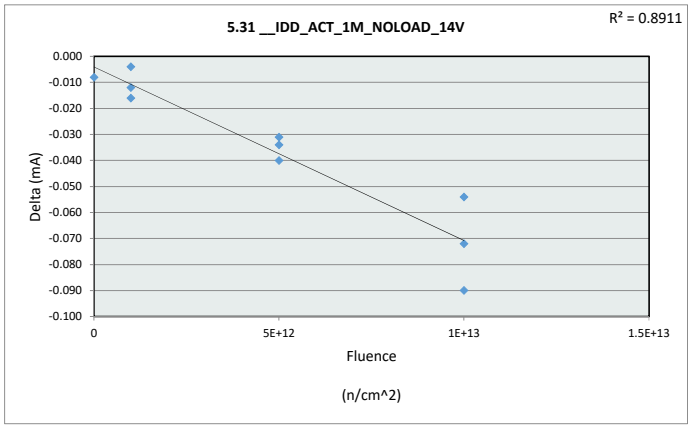
	5.28 __IDD_ACT_1M_NOLOAD			
Test Site				
Tester				
Test Number				
Max Limit	9.5	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.903	6.686	6.596	6.610
Average	6.903	6.740	6.693	6.730
Max	6.903	6.774	6.782	6.863
UL	9.500	9.500	9.500	9.500



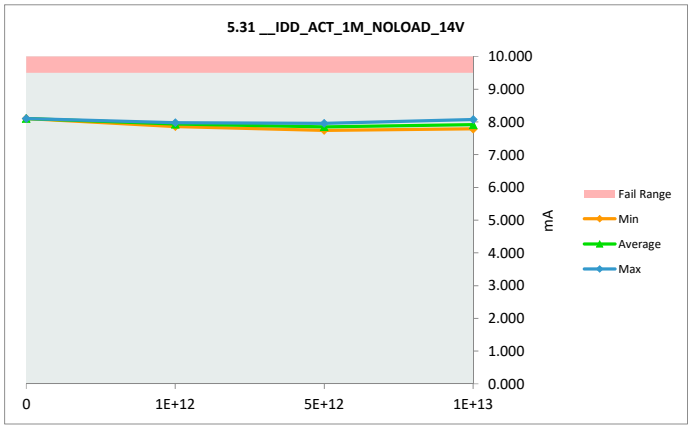
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.31 __IDD_ACT_1M_NOLOAD_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.110	8.102	-0.008
1E+12	45	7.967	7.955	-0.012
1E+12	46	7.978	7.974	-0.004
1E+12	54	7.873	7.857	-0.016
5E+12	57	7.895	7.861	-0.034
5E+12	58	7.777	7.746	-0.031
5E+12	60	7.997	7.957	-0.040
1E+13	62	7.949	7.877	-0.072
1E+13	65	8.128	8.074	-0.054
1E+13	66	7.873	7.783	-0.090
	Max	8.128	8.102	-0.004
	Average	7.955	7.919	-0.036
	Min	7.777	7.746	-0.090
	Std Dev	0.108	0.116	0.029



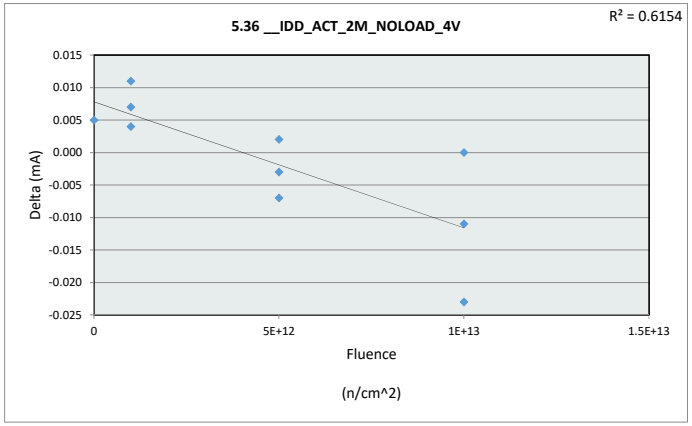
	5.31 __IDD_ACT_1M_NOLOAD			
Test Site				
Tester				
Test Number				
Max Limit	9.5	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.102	7.857	7.746	7.783
Average	8.102	7.929	7.855	7.911
Max	8.102	7.974	7.957	8.074
UL	9.500	9.500	9.500	9.500



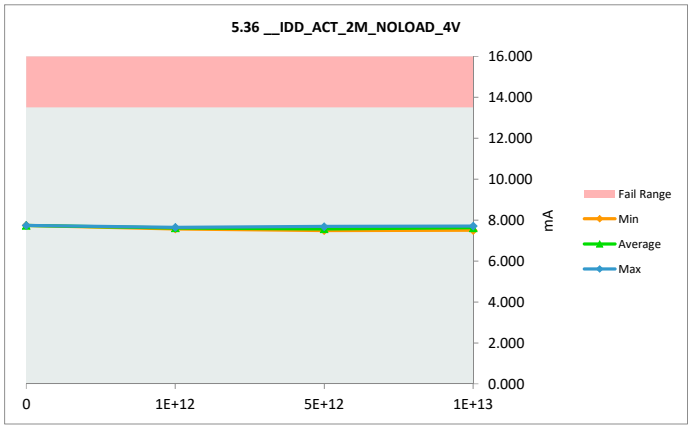
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.36 __IDD_ACT_2M_NOLOAD_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13.5	13.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.739	7.744	0.005
1E+12	45	7.646	7.650	0.004
1E+12	46	7.613	7.624	0.011
1E+12	54	7.562	7.569	0.007
5E+12	57	7.532	7.529	-0.003
5E+12	58	7.492	7.494	0.002
5E+12	60	7.694	7.687	-0.007
1E+13	62	7.681	7.670	-0.011
1E+13	65	7.711	7.711	0.000
1E+13	66	7.519	7.496	-0.023
	Max	7.739	7.744	0.011
	Average	7.619	7.617	-0.002
	Min	7.492	7.494	-0.023
	Std Dev	0.088	0.090	0.010



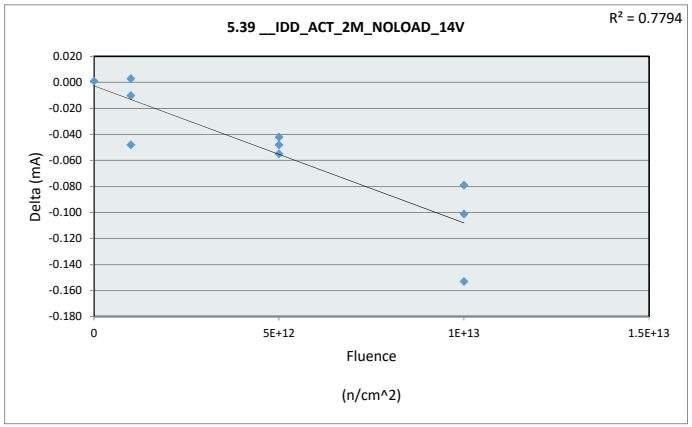
	5.36 __IDD_ACT_2M_NOLOAD			
Test Site				
Tester				
Test Number				
Max Limit	13.5	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.744	7.569	7.494	7.496
Average	7.744	7.614	7.570	7.626
Max	7.744	7.650	7.687	7.711
UL	13.500	13.500	13.500	13.500



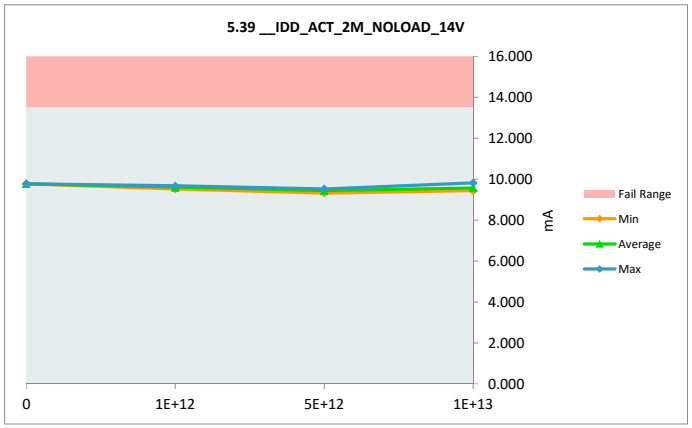
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.39 __IDD_ACT_2M_NOLOAD_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	13.5	13.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.775	9.776	0.001
1E+12	45	9.635	9.625	-0.010
1E+12	46	9.668	9.671	0.003
1E+12	54	9.571	9.523	-0.048
5E+12	57	9.520	9.472	-0.048
5E+12	58	9.372	9.330	-0.042
5E+12	60	9.583	9.528	-0.055
1E+13	62	9.549	9.448	-0.101
1E+13	65	9.898	9.819	-0.079
1E+13	66	9.592	9.439	-0.153
	Max	9.898	9.819	0.003
	Average	9.616	9.563	-0.053
	Min	9.372	9.330	-0.153
	Std Dev	0.143	0.156	0.048



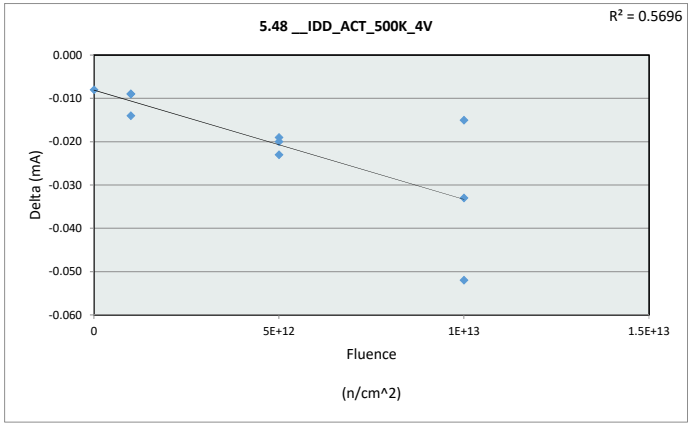
	5.39 __IDD_ACT_2M_NOLOAD			
Test Site				
Tester				
Test Number				
Max Limit	13.5	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.776	9.523	9.330	9.439
Average	9.776	9.606	9.443	9.569
Max	9.776	9.671	9.528	9.819
UL	13.500	13.500	13.500	13.500



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

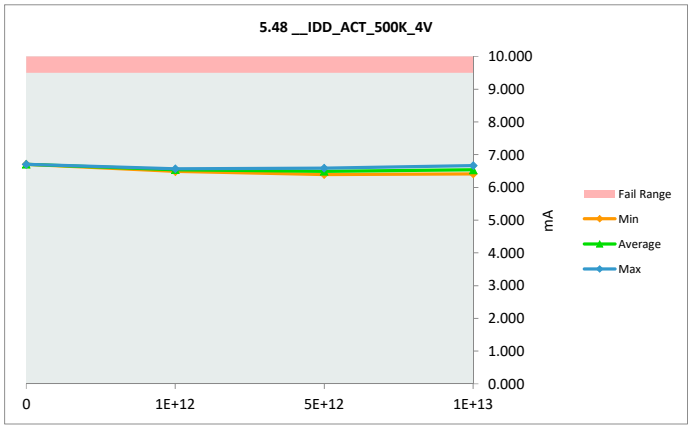
	5.48 __IDD_ACT_500K_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.710	6.702	-0.008
1E+12	45	6.565	6.556	-0.009
1E+12	46	6.583	6.574	-0.009
1E+12	54	6.500	6.486	-0.014
5E+12	57	6.520	6.500	-0.020
5E+12	58	6.416	6.397	-0.019
5E+12	60	6.609	6.586	-0.023
1E+13	62	6.554	6.521	-0.033
1E+13	65	6.680	6.665	-0.015
1E+13	66	6.462	6.410	-0.052
	Max	6.710	6.702	-0.008
	Average	6.560	6.540	-0.020
	Min	6.416	6.397	-0.052
	Std Dev	0.092	0.099	0.014



	5.48 __IDD_ACT_500K_4V			
Test Site				
Tester				
Test Number				
Max Limit	9.5	mA		
Min Limit		mA		

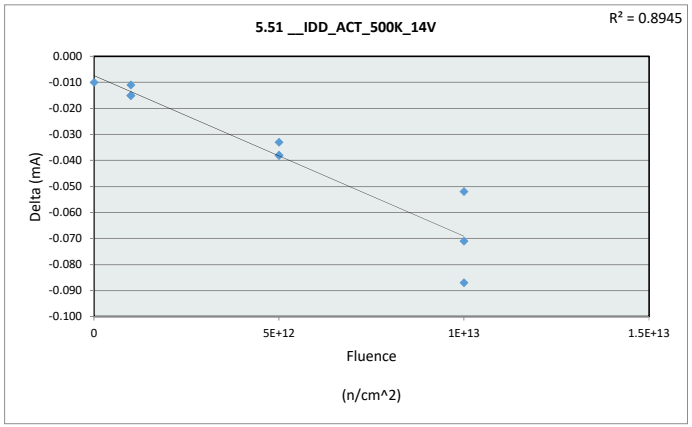
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.702	6.486	6.397	6.410
Average	6.702	6.539	6.494	6.532
Max	6.702	6.574	6.586	6.665
UL	9.500	9.500	9.500	9.500



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

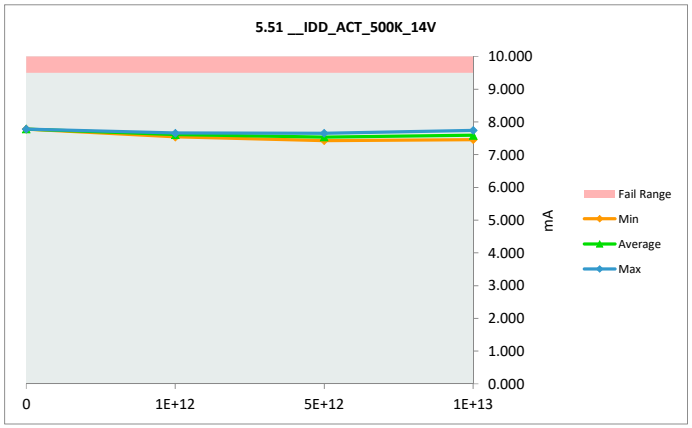
	5.51 __IDD_ACT_500K_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	9.5	9.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.793	7.783	-0.010
1E+12	45	7.643	7.628	-0.015
1E+12	46	7.668	7.657	-0.011
1E+12	54	7.556	7.541	-0.015
5E+12	57	7.572	7.534	-0.038
5E+12	58	7.464	7.431	-0.033
5E+12	60	7.689	7.651	-0.038
1E+13	62	7.632	7.561	-0.071
1E+13	65	7.794	7.742	-0.052
1E+13	66	7.546	7.459	-0.087
	Max	7.794	7.783	-0.010
	Average	7.636	7.599	-0.037
	Min	7.464	7.431	-0.087
	Std Dev	0.106	0.115	0.026



	5.51 __IDD_ACT_500K_14V			
Test Site				
Tester				
Test Number				
Max Limit	9.5	mA		
Min Limit		mA		

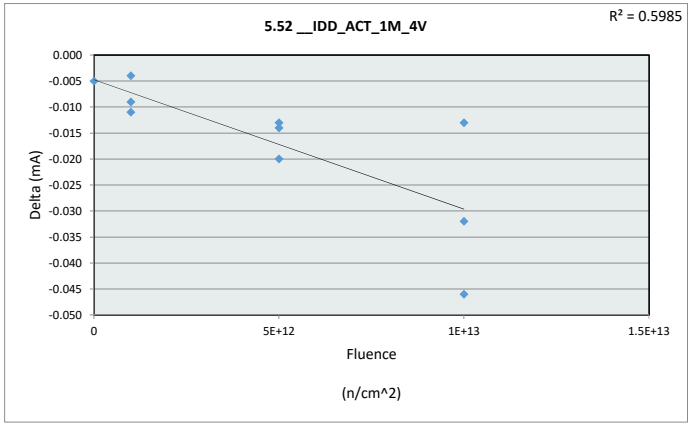
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.783	7.541	7.431	7.459
Average	7.783	7.609	7.539	7.587
Max	7.783	7.657	7.651	7.742
UL	9.500	9.500	9.500	9.500



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

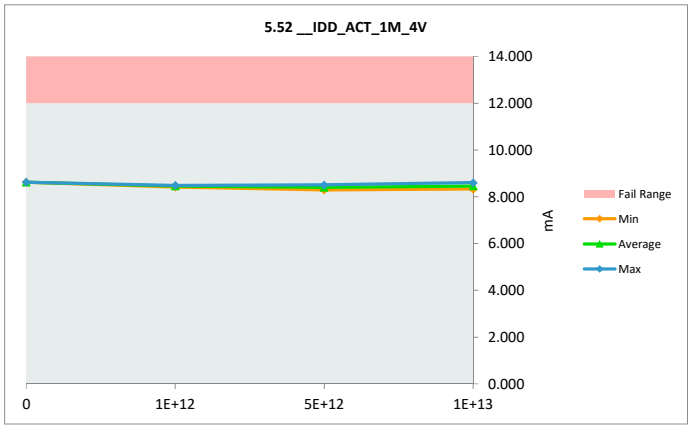
	5.52 __IDD_ACT_1M_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	12
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.625	8.620	-0.005
1E+12	45	8.486	8.477	-0.009
1E+12	46	8.485	8.481	-0.004
1E+12	54	8.423	8.412	-0.011
5E+12	57	8.427	8.413	-0.014
5E+12	58	8.308	8.295	-0.013
5E+12	60	8.524	8.504	-0.020
1E+13	62	8.477	8.445	-0.032
1E+13	65	8.610	8.597	-0.013
1E+13	66	8.375	8.329	-0.046
	Max	8.625	8.620	-0.004
	Average	8.474	8.457	-0.017
	Min	8.308	8.295	-0.046
	Std Dev	0.098	0.103	0.013



	5.52 __IDD_ACT_1M_4V			
Test Site				
Tester				
Test Number				
Max Limit	12	mA		
Min Limit		mA		

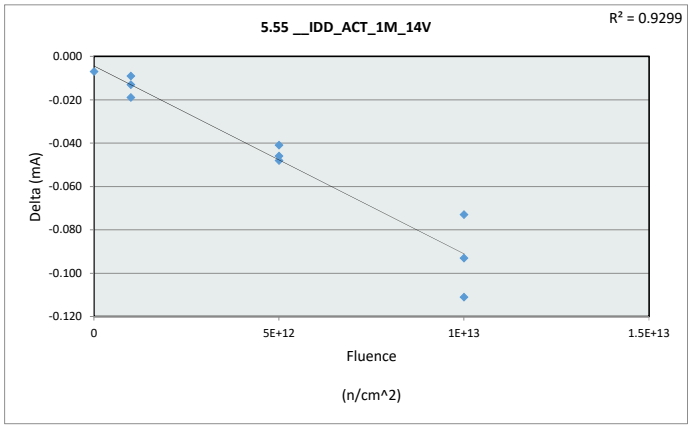
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.620	8.412	8.295	8.329
Average	8.620	8.457	8.404	8.457
Max	8.620	8.481	8.504	8.597
UL	12.000	12.000	12.000	12.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

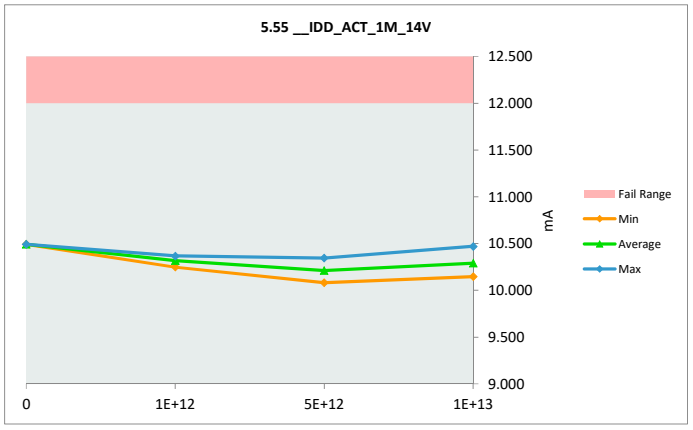
	5.55 __IDD_ACT_1M_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	12	12
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	10.500	10.493	-0.007
1E+12	45	10.349	10.336	-0.013
1E+12	46	10.376	10.367	-0.009
1E+12	54	10.268	10.249	-0.019
5E+12	57	10.256	10.208	-0.048
5E+12	58	10.124	10.083	-0.041
5E+12	60	10.390	10.344	-0.046
1E+13	62	10.347	10.254	-0.093
1E+13	65	10.542	10.469	-0.073
1E+13	66	10.257	10.146	-0.111
	Max	10.542	10.493	-0.007
	Average	10.341	10.295	-0.046
	Min	10.124	10.083	-0.111
	Std Dev	0.123	0.132	0.036



	5.55 __IDD_ACT_1M_14V			
Test Site				
Tester				
Test Number				
Max Limit	12	mA		
Min Limit		mA		

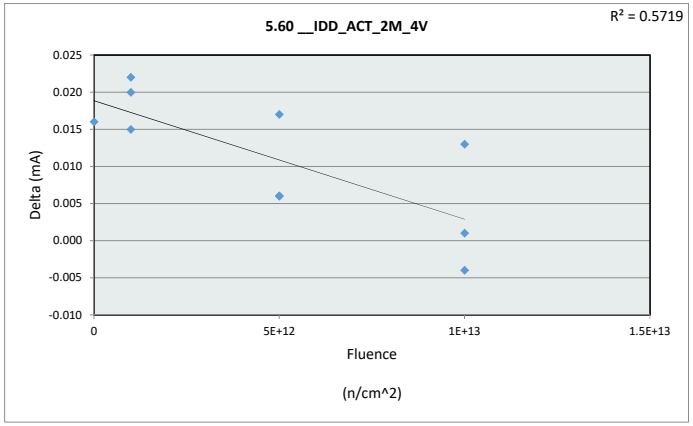
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	10.493	10.249	10.083	10.146
Average	10.493	10.317	10.212	10.290
Max	10.493	10.367	10.344	10.469
UL	12.000	12.000	12.000	12.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

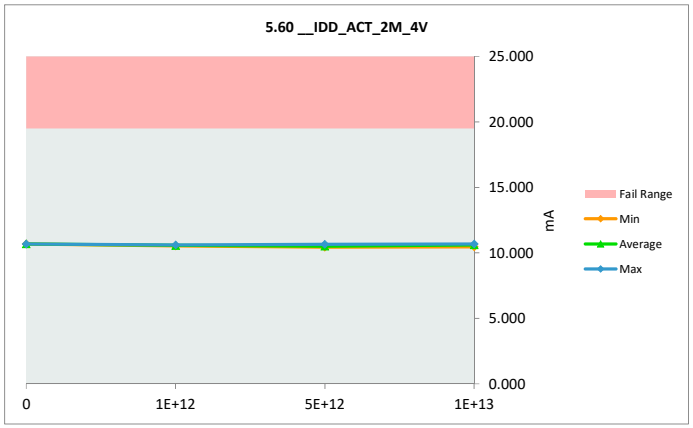
	5.60 __IDD_ACT_2M_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	19.5	19.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	10.674	10.690	0.016
1E+12	45	10.595	10.610	0.015
1E+12	46	10.530	10.552	0.022
1E+12	54	10.516	10.536	0.020
5E+12	57	10.453	10.459	0.006
5E+12	58	10.421	10.438	0.017
5E+12	60	10.650	10.656	0.006
1E+13	62	10.668	10.669	0.001
1E+13	65	10.659	10.672	0.013
1E+13	66	10.464	10.460	-0.004
	Max	10.674	10.690	0.022
	Average	10.563	10.574	0.011
	Min	10.421	10.438	-0.004
	Std Dev	0.098	0.098	0.009



	5.60 __IDD_ACT_2M_4V			
Test Site				
Tester				
Test Number				
Max Limit	19.5	mA		
Min Limit		mA		

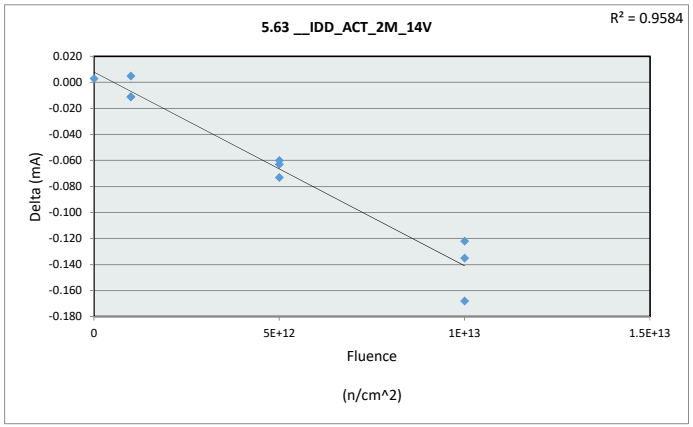
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	10.690	10.536	10.438	10.460
Average	10.690	10.566	10.518	10.600
Max	10.690	10.610	10.656	10.672
UL	19.500	19.500	19.500	19.500



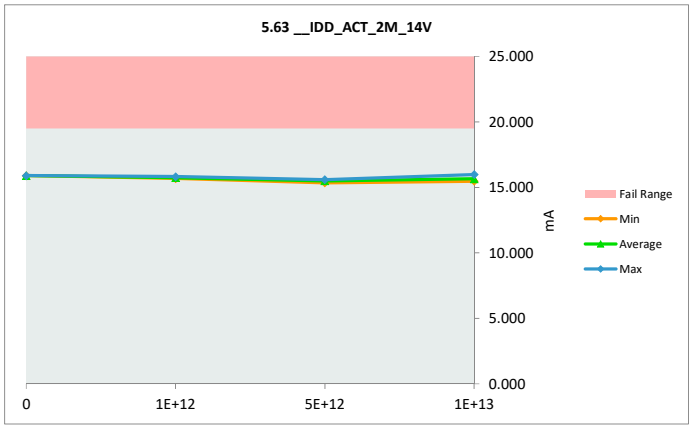
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.63 __IDD_ACT_2M_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	19.5	19.5
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	15.896	15.899	0.003
1E+12	45	15.728	15.717	-0.011
1E+12	46	15.815	15.820	0.005
1E+12	54	15.690	15.679	-0.011
5E+12	57	15.620	15.557	-0.063
5E+12	58	15.407	15.347	-0.060
5E+12	60	15.668	15.595	-0.073
1E+13	62	15.654	15.519	-0.135
1E+13	65	16.103	15.981	-0.122
1E+13	66	15.631	15.463	-0.168
	Max	16.103	15.981	0.005
	Average	15.721	15.658	-0.063
	Min	15.407	15.347	-0.168
	Std Dev	0.186	0.200	0.062



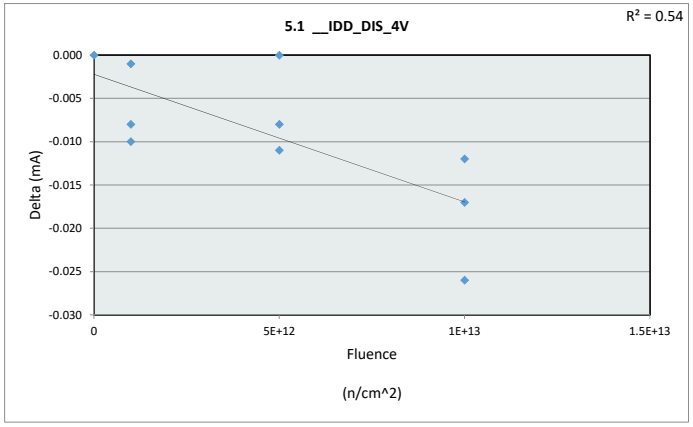
	5.63 __IDD_ACT_2M_14V			
Test Site				
Tester				
Test Number				
Max Limit	19.5	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	15.899	15.679	15.347	15.463
Average	15.899	15.739	15.500	15.654
Max	15.899	15.820	15.595	15.981
UL	19.500	19.500	19.500	19.500



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

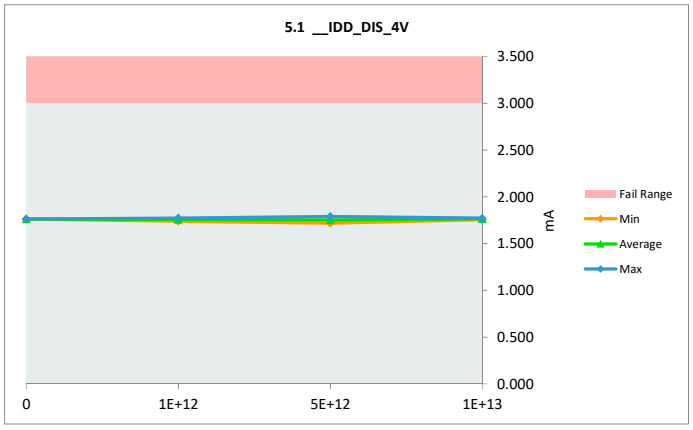
	5.1 __IDD_DIS_4V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	3	3
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.762	1.762	0.000
1E+12	45	1.773	1.772	-0.001
1E+12	46	1.776	1.768	-0.008
1E+12	54	1.747	1.737	-0.010
5E+12	57	1.797	1.789	-0.008
5E+12	58	1.719	1.719	0.000
5E+12	60	1.760	1.749	-0.011
1E+13	62	1.782	1.770	-0.012
1E+13	65	1.786	1.769	-0.017
1E+13	66	1.780	1.754	-0.026
	Max	1.797	1.789	0.000
	Average	1.768	1.759	-0.009
	Min	1.719	1.719	-0.026
	Std Dev	0.022	0.020	0.008



	5.1 __IDD_DIS_4V			
Test Site				
Tester				
Test Number				
Max Limit	3	mA		
Min Limit		mA		

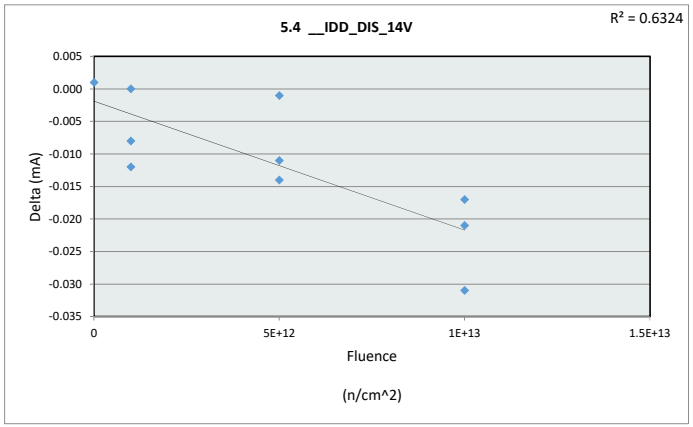
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	1.762	1.737	1.719	1.754
Average	1.762	1.759	1.752	1.764
Max	1.762	1.772	1.789	1.770
UL	3.000	3.000	3.000	3.000



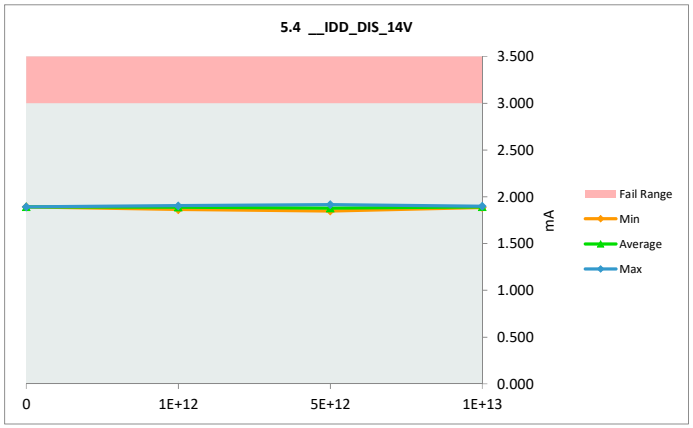
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.4 __IDD_DIS_14V	
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	3	3
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.891	1.892	0.001
1E+12	45	1.903	1.903	0.000
1E+12	46	1.907	1.899	-0.008
1E+12	54	1.875	1.863	-0.012
5E+12	57	1.927	1.916	-0.011
5E+12	58	1.848	1.847	-0.001
5E+12	60	1.890	1.876	-0.014
1E+13	62	1.911	1.894	-0.017
1E+13	65	1.919	1.898	-0.021
1E+13	66	1.916	1.885	-0.031
	Max	1.927	1.916	0.001
	Average	1.899	1.887	-0.011
	Min	1.848	1.847	-0.031
	Std Dev	0.024	0.020	0.010



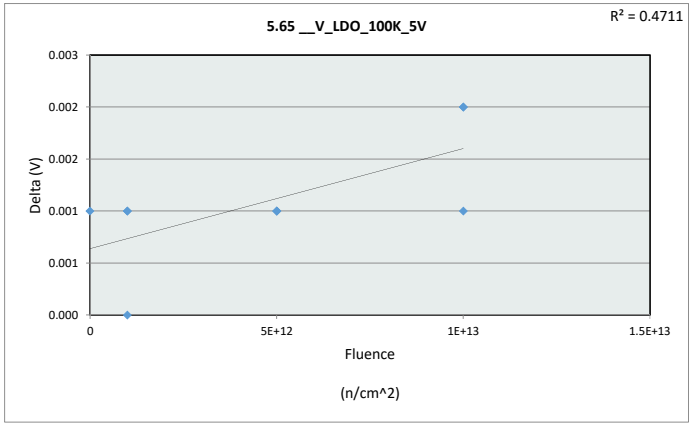
	5.4 __IDD_DIS_14V			
Test Site				
Tester				
Test Number				
Max Limit	3	mA		
Min Limit		mA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	1.892	1.863	1.847	1.885
Average	1.892	1.888	1.880	1.892
Max	1.892	1.903	1.916	1.898
UL	3.000	3.000	3.000	3.000



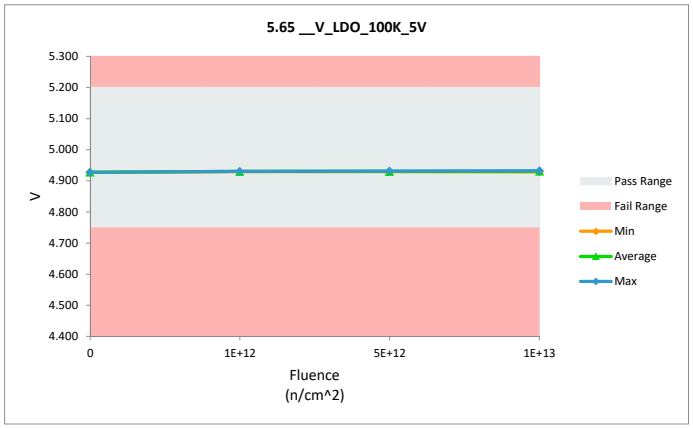
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.65 __V_LDO_100K_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.75	4.75

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	4.926	4.927	0.001
1E+12	45	4.928	4.929	0.001
1E+12	46	4.929	4.929	0.000
1E+12	54	4.929	4.930	0.001
5E+12	57	4.928	4.929	0.001
5E+12	58	4.930	4.931	0.001
5E+12	60	4.928	4.929	0.001
1E+13	62	4.929	4.931	0.002
1E+13	65	4.927	4.928	0.001
1E+13	66	4.930	4.932	0.002
	Max	4.930	4.932	0.002
	Average	4.928	4.930	0.001
	Min	4.926	4.927	0.000
	Std Dev	0.001	0.002	0.001



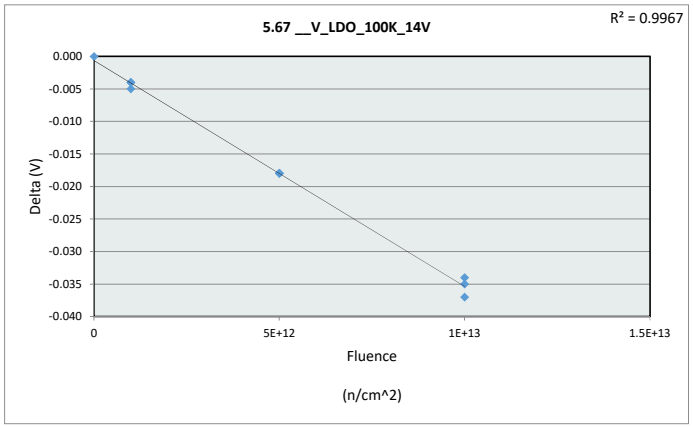
	5.65 __V_LDO_100K_5V			
Test Site				
Tester				
Test Number				
Max Limit	5.2	V		
Min Limit	4.75	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	4.750	4.750	4.750	4.750
Min	4.927	4.929	4.929	4.928
Average	4.927	4.929	4.930	4.930
Max	4.927	4.930	4.931	4.932
UL	5.200	5.200	5.200	5.200



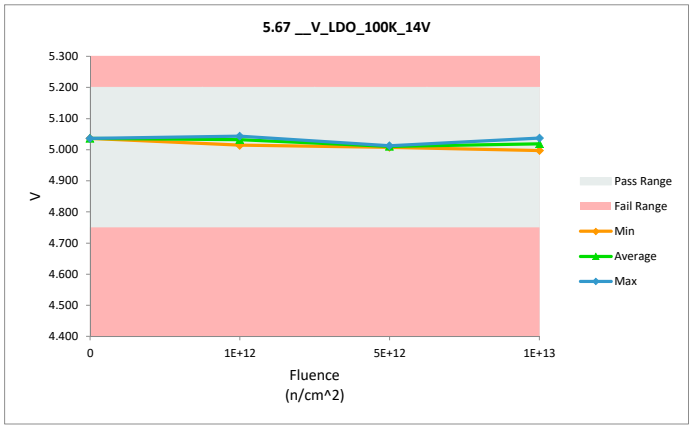
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.67 __V_LDO_100K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.75	4.75

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	5.036	5.036	0.000
1E+12	45	5.043	5.039	-0.004
1E+12	46	5.047	5.043	-0.004
1E+12	54	5.019	5.014	-0.005
5E+12	57	5.031	5.013	-0.018
5E+12	58	5.025	5.007	-0.018
5E+12	60	5.030	5.012	-0.018
1E+13	62	5.034	4.997	-0.037
1E+13	65	5.071	5.037	-0.034
1E+13	66	5.056	5.021	-0.035
	Max	5.071	5.043	0.000
	Average	5.039	5.022	-0.017
	Min	5.019	4.997	-0.037
	Std Dev	0.016	0.016	0.014



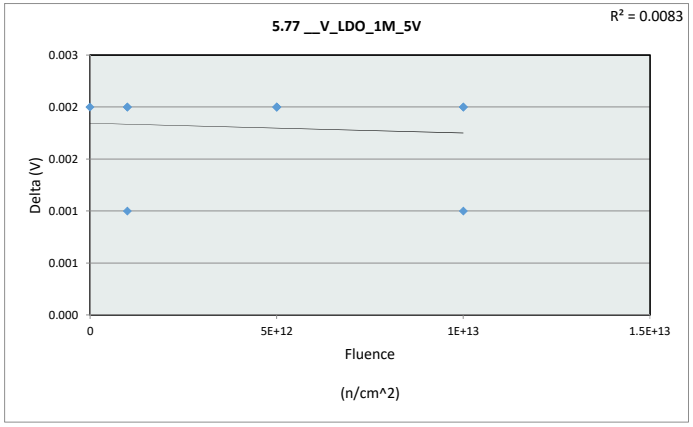
	5.67 __V_LDO_100K_14V			
Test Site				
Tester				
Test Number				
Max Limit	5.2	V		
Min Limit	4.75	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	4.750	4.750	4.750	4.750
Min	5.036	5.014	5.007	4.997
Average	5.036	5.032	5.011	5.018
Max	5.036	5.043	5.013	5.037
UL	5.200	5.200	5.200	5.200



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

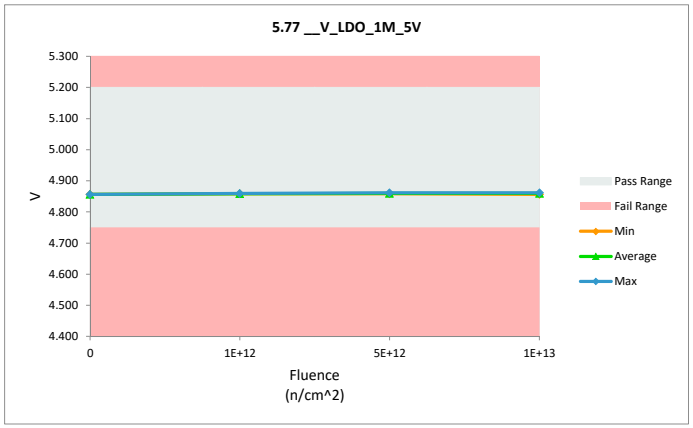
	5.77 __V_LDO_1M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.75	4.75

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	4.854	4.856	0.002
1E+12	45	4.856	4.858	0.002
1E+12	46	4.857	4.859	0.002
1E+12	54	4.857	4.858	0.001
5E+12	57	4.856	4.858	0.002
5E+12	58	4.859	4.861	0.002
5E+12	60	4.856	4.858	0.002
1E+13	62	4.858	4.860	0.002
1E+13	65	4.855	4.856	0.001
1E+13	66	4.859	4.861	0.002
	Max	4.859	4.861	0.002
	Average	4.857	4.858	0.002
	Min	4.854	4.856	0.001
	Std Dev	0.002	0.002	0.000



	5.77 __V_LDO_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	5.2	V
Min Limit	4.75	V

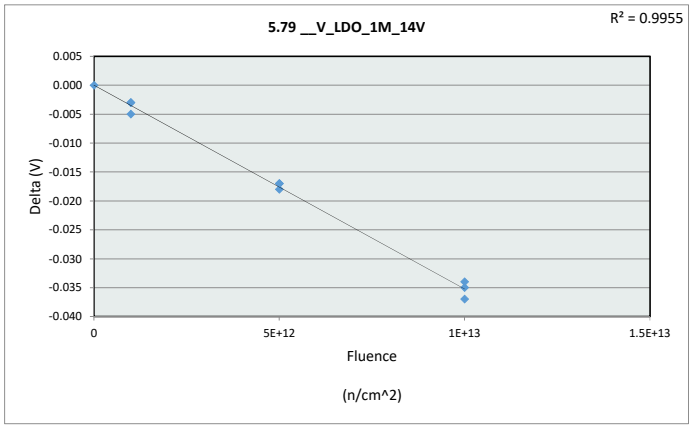
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	4.750	4.750	4.750	4.750
Min	4.856	4.858	4.858	4.856
Average	4.856	4.858	4.859	4.859
Max	4.856	4.859	4.861	4.861
UL	5.200	5.200	5.200	5.200



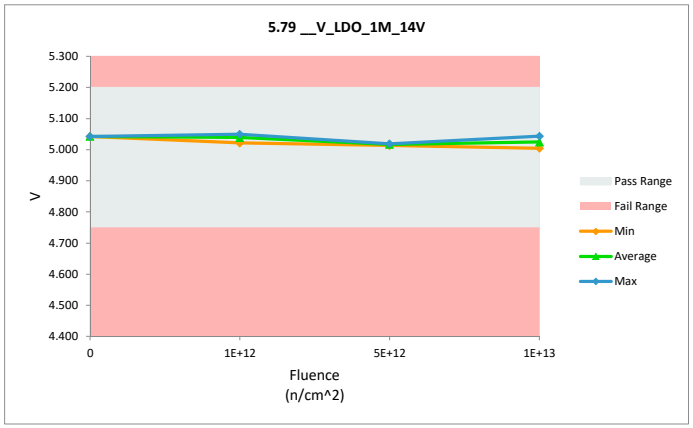
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.79 __V_LDO_1M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.75	4.75

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	5.042	5.042	0.000
1E+12	45	5.048	5.045	-0.003
1E+12	46	5.053	5.050	-0.003
1E+12	54	5.026	5.021	-0.005
5E+12	57	5.036	5.018	-0.018
5E+12	58	5.030	5.013	-0.017
5E+12	60	5.036	5.019	-0.017
1E+13	62	5.041	5.004	-0.037
1E+13	65	5.077	5.043	-0.034
1E+13	66	5.061	5.026	-0.035
	Max	5.077	5.050	0.000
	Average	5.045	5.028	-0.017
	Min	5.026	5.004	-0.037
	Std Dev	0.015	0.016	0.014



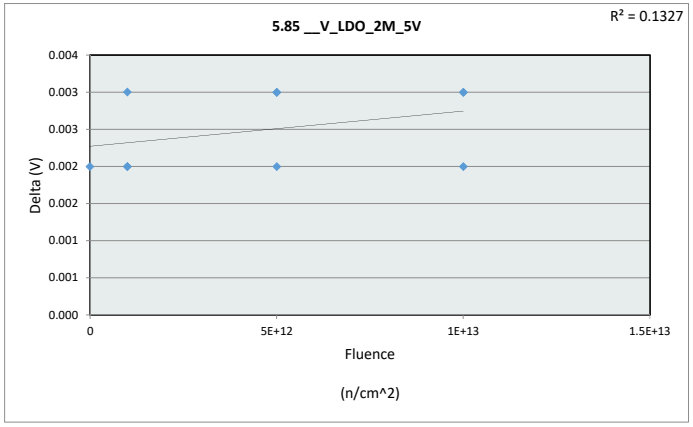
	5.79 __V_LDO_1M_14V			
Test Site				
Tester				
Test Number				
Max Limit	5.2	V		
Min Limit	4.75	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	4.750	4.750	4.750	4.750
Min	5.042	5.021	5.013	5.004
Average	5.042	5.039	5.017	5.024
Max	5.042	5.050	5.019	5.043
UL	5.200	5.200	5.200	5.200



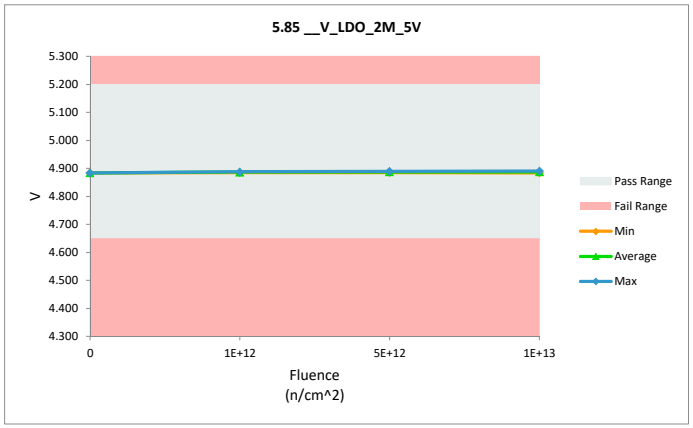
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.85 __V_LDO_2M_5V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.65	4.65

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	4.881	4.883	0.002
1E+12	45	4.883	4.886	0.003
1E+12	46	4.885	4.887	0.002
1E+12	54	4.883	4.885	0.002
5E+12	57	4.883	4.885	0.002
5E+12	58	4.886	4.889	0.003
5E+12	60	4.885	4.888	0.003
1E+13	62	4.888	4.890	0.002
1E+13	65	4.880	4.883	0.003
1E+13	66	4.886	4.889	0.003
	Max	4.888	4.890	0.003
	Average	4.884	4.887	0.002
	Min	4.880	4.883	0.002
	Std Dev	0.002	0.003	0.001



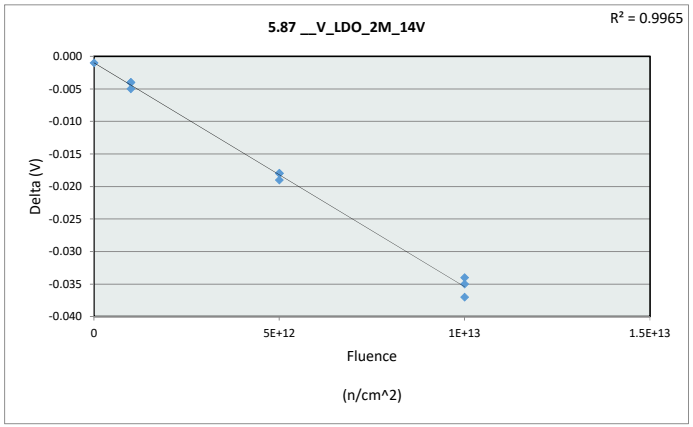
	5.85 __V_LDO_2M_5V			
Test Site				
Tester				
Test Number				
Max Limit	5.2	V		
Min Limit	4.65	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	4.650	4.650	4.650	4.650
Min	4.883	4.885	4.885	4.883
Average	4.883	4.886	4.887	4.887
Max	4.883	4.887	4.889	4.890
UL	5.200	5.200	5.200	5.200



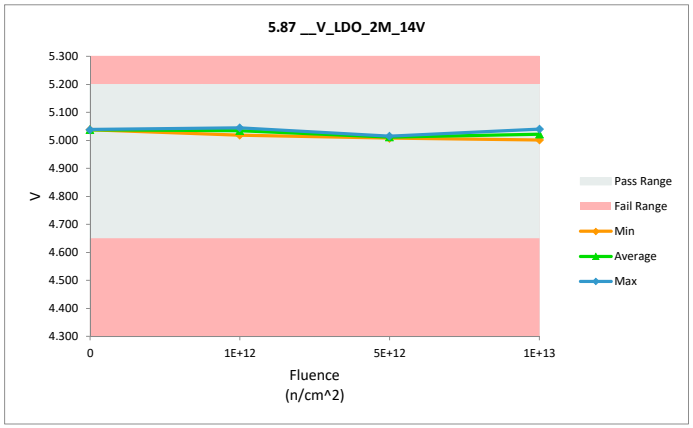
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.87 __V_LDO_2M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	5.2	5.2
Min Limit	4.65	4.65

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	5.039	5.038	-0.001
1E+12	45	5.044	5.040	-0.004
1E+12	46	5.049	5.045	-0.004
1E+12	54	5.023	5.018	-0.005
5E+12	57	5.033	5.014	-0.019
5E+12	58	5.025	5.007	-0.018
5E+12	60	5.033	5.015	-0.018
1E+13	62	5.038	5.001	-0.037
1E+13	65	5.074	5.040	-0.034
1E+13	66	5.058	5.023	-0.035
	Max	5.074	5.045	-0.001
	Average	5.042	5.024	-0.018
	Min	5.023	5.001	-0.037
	Std Dev	0.016	0.016	0.014



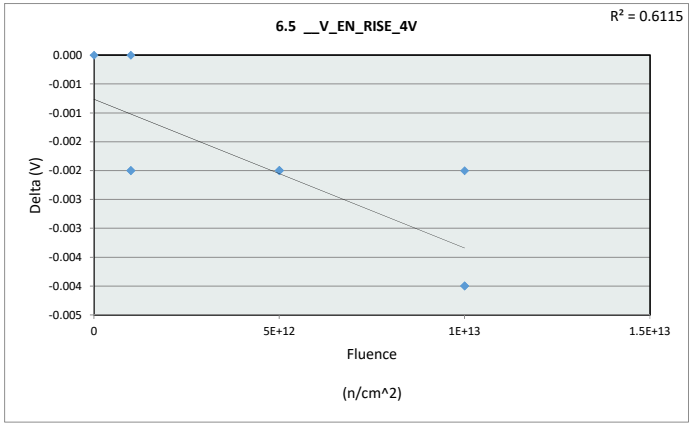
	5.87 __V_LDO_2M_14V			
Test Site				
Tester				
Test Number				
Max Limit	5.2	V		
Min Limit	4.65	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	4.650	4.650	4.650	4.650
Min	5.038	5.018	5.007	5.001
Average	5.038	5.034	5.012	5.021
Max	5.038	5.045	5.015	5.040
UL	5.200	5.200	5.200	5.200



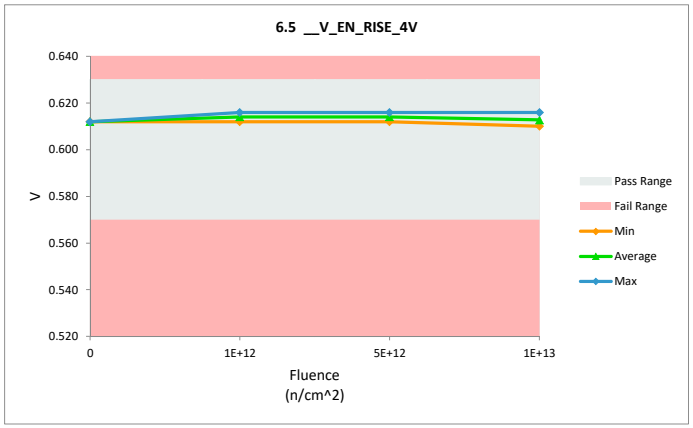
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	6.5 __V_EN_RISE_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.612	0.612	0.000
1E+12	45	0.616	0.614	-0.002
1E+12	46	0.616	0.616	0.000
1E+12	54	0.614	0.612	-0.002
5E+12	57	0.618	0.616	-0.002
5E+12	58	0.616	0.614	-0.002
5E+12	60	0.614	0.612	-0.002
1E+13	62	0.620	0.616	-0.004
1E+13	65	0.614	0.610	-0.004
1E+13	66	0.614	0.612	-0.002
	Max	0.620	0.616	0.000
	Average	0.615	0.613	-0.002
	Min	0.612	0.610	-0.004
	Std Dev	0.002	0.002	0.001



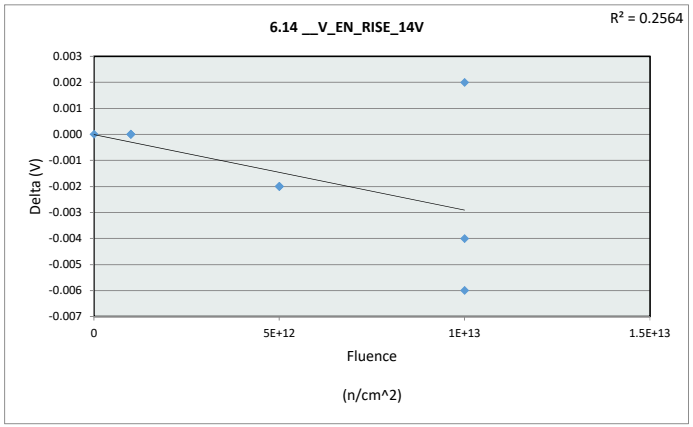
	6.5 __V_EN_RISE_4V			
Test Site				
Tester				
Test Number				
Max Limit	0.63	V		
Min Limit	0.57	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.570	0.570	0.570	0.570
Min	0.612	0.612	0.612	0.610
Average	0.612	0.614	0.614	0.613
Max	0.612	0.616	0.616	0.616
UL	0.630	0.630	0.630	0.630



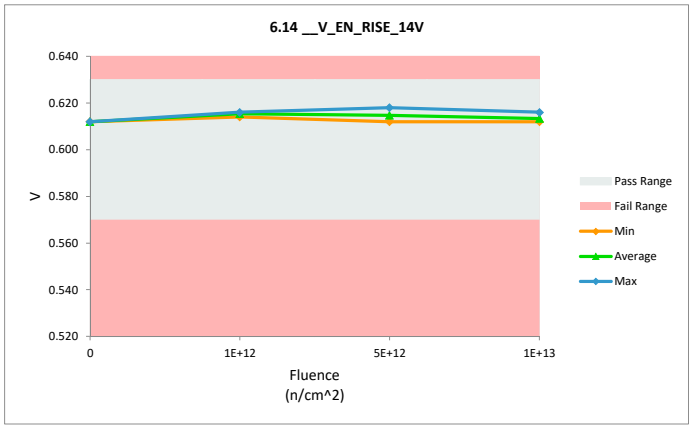
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	6.14 __V_EN_RISE_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.612	0.612	0.000
1E+12	45	0.616	0.616	0.000
1E+12	46	0.616	0.616	0.000
1E+12	54	0.614	0.614	0.000
5E+12	57	0.620	0.618	-0.002
5E+12	58	0.616	0.614	-0.002
5E+12	60	0.614	0.612	-0.002
1E+13	62	0.622	0.616	-0.006
1E+13	65	0.610	0.612	0.002
1E+13	66	0.616	0.612	-0.004
	Max	0.622	0.618	0.002
	Average	0.616	0.614	-0.001
	Min	0.610	0.612	-0.006
	Std Dev	0.004	0.002	0.002



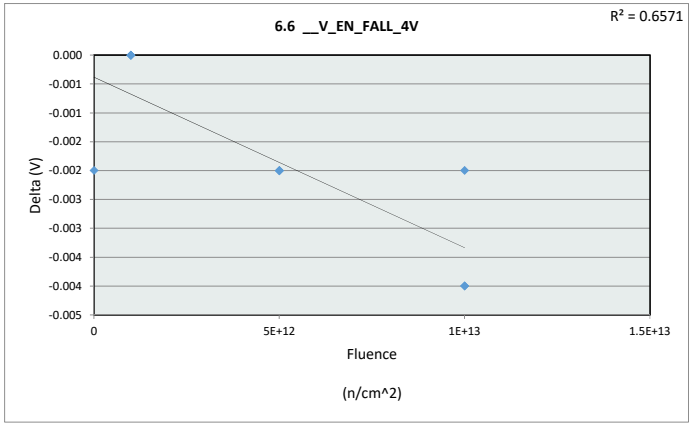
	6.14 __V_EN_RISE_14V			
Test Site				
Tester				
Test Number				
Max Limit	0.63	V		
Min Limit	0.57	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.570	0.570	0.570	0.570
Min	0.612	0.614	0.612	0.612
Average	0.612	0.615	0.615	0.613
Max	0.612	0.616	0.618	0.616
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

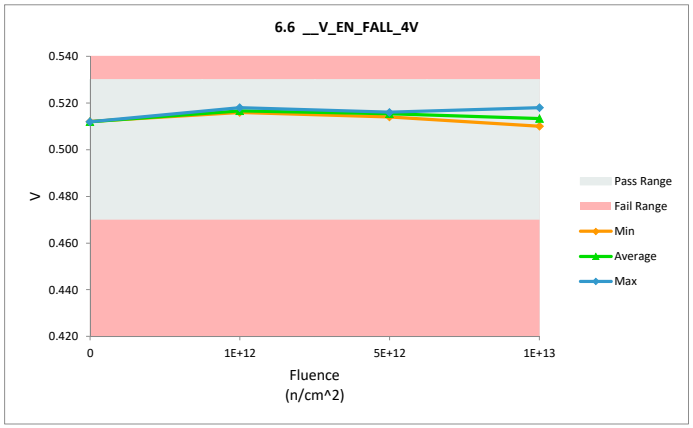
	6.6 __V_EN_FALL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.514	0.512	-0.002
1E+12	45	0.516	0.516	0.000
1E+12	46	0.518	0.518	0.000
1E+12	54	0.516	0.516	0.000
5E+12	57	0.518	0.516	-0.002
5E+12	58	0.518	0.516	-0.002
5E+12	60	0.516	0.514	-0.002
1E+13	62	0.522	0.518	-0.004
1E+13	65	0.514	0.510	-0.004
1E+13	66	0.514	0.512	-0.002
	Max	0.522	0.518	0.000
	Average	0.517	0.515	-0.002
	Min	0.514	0.510	-0.004
	Std Dev	0.003	0.003	0.001



	6.6 __V_EN_FALL_4V			
Test Site				
Tester				
Test Number				
Max Limit	0.53	V		
Min Limit	0.47	V		

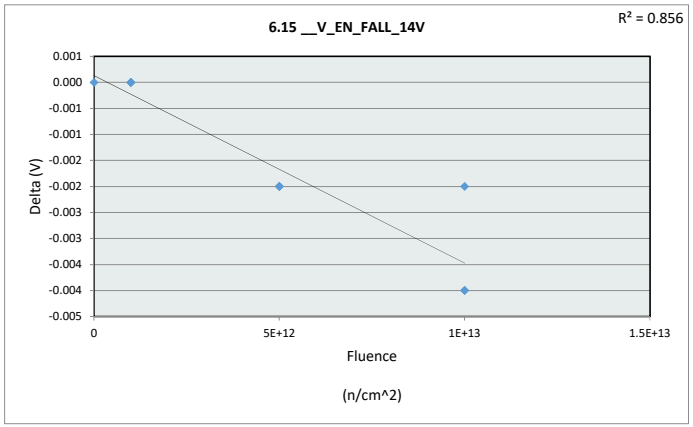
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.470	0.470	0.470	0.470
Min	0.512	0.516	0.514	0.510
Average	0.512	0.517	0.515	0.513
Max	0.512	0.518	0.516	0.518
UL	0.530	0.530	0.530	0.530



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

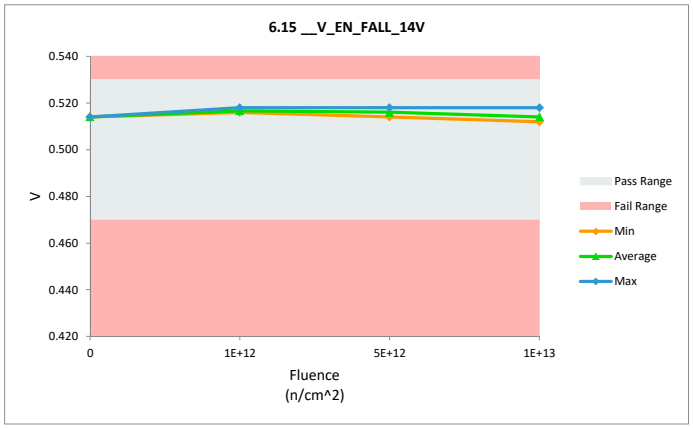
	6.15 __V_EN_FALL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.514	0.514	0.000
1E+12	45	0.516	0.516	0.000
1E+12	46	0.518	0.518	0.000
1E+12	54	0.516	0.516	0.000
5E+12	57	0.520	0.518	-0.002
5E+12	58	0.518	0.516	-0.002
5E+12	60	0.516	0.514	-0.002
1E+13	62	0.522	0.518	-0.004
1E+13	65	0.514	0.512	-0.002
1E+13	66	0.516	0.512	-0.004
	Max	0.522	0.518	0.000
	Average	0.517	0.515	-0.002
	Min	0.514	0.512	-0.004
	Std Dev	0.003	0.002	0.002



	6.15 __V_EN_FALL_14V			
Test Site				
Tester				
Test Number				
Max Limit	0.53	V		
Min Limit	0.47	V		

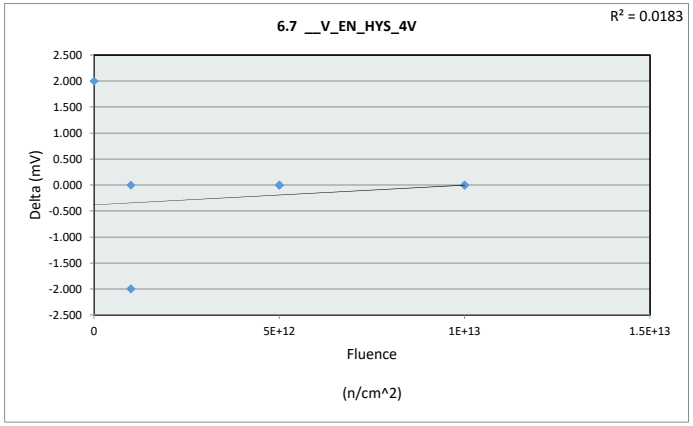
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.470	0.470	0.470	0.470
Min	0.514	0.516	0.514	0.512
Average	0.514	0.517	0.516	0.514
Max	0.514	0.518	0.518	0.518
UL	0.530	0.530	0.530	0.530



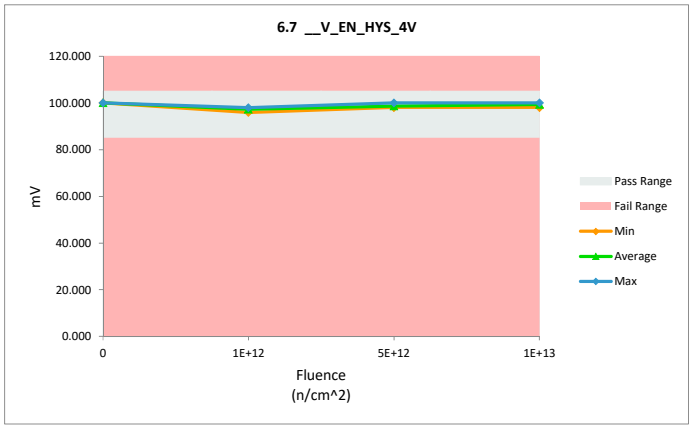
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	6.7 __V_EN_HYS_4V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	105	105
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	98.000	100.000	2.000
1E+12	45	100.000	98.000	-2.000
1E+12	46	98.000	98.000	0.000
1E+12	54	98.000	96.000	-2.000
5E+12	57	100.000	100.000	0.000
5E+12	58	98.000	98.000	0.000
5E+12	60	98.000	98.000	0.000
1E+13	62	98.000	98.000	0.000
1E+13	65	100.000	100.000	0.000
1E+13	66	100.000	100.000	0.000
	Max	100.000	100.000	2.000
	Average	98.800	98.600	-0.200
	Min	98.000	96.000	-2.000
	Std Dev	1.033	1.350	1.135



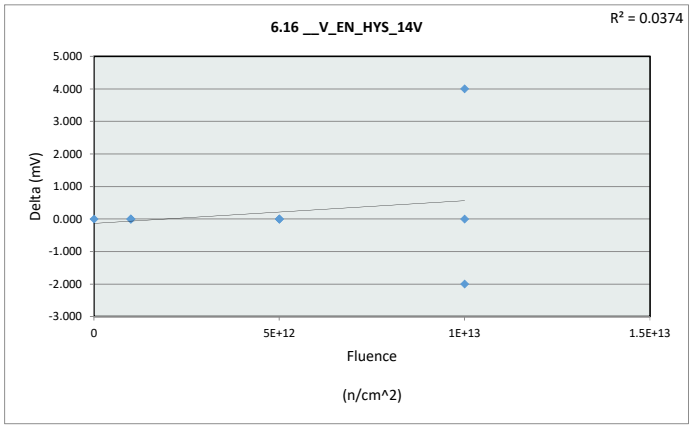
	6.7 __V_EN_HYS_4V			
Test Site				
Tester				
Test Number				
Max Limit	105	mV		
Min Limit	85	mV		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	100.000	96.000	98.000	98.000
Average	100.000	97.333	98.667	99.333
Max	100.000	98.000	100.000	100.000
UL	105.000	105.000	105.000	105.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

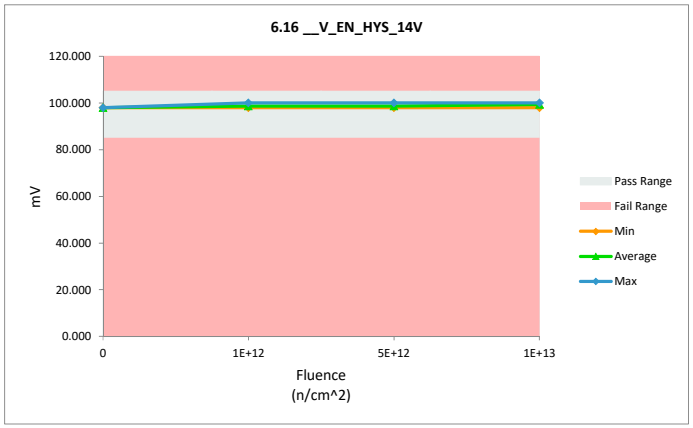
	6.16 __V_EN_HYS_14V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	105	105
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	98.000	98.000	0.000
1E+12	45	100.000	100.000	0.000
1E+12	46	98.000	98.000	0.000
1E+12	54	98.000	98.000	0.000
5E+12	57	100.000	100.000	0.000
5E+12	58	98.000	98.000	0.000
5E+12	60	98.000	98.000	0.000
1E+13	62	100.000	98.000	-2.000
1E+13	65	96.000	100.000	4.000
1E+13	66	100.000	100.000	0.000
	Max	100.000	100.000	4.000
	Average	98.600	98.800	0.200
	Min	96.000	98.000	-2.000
	Std Dev	1.350	1.033	1.476



	6.16 __V_EN_HYS_14V	
Test Site		
Tester		
Test Number		
Max Limit	105	mV
Min Limit	85	mV

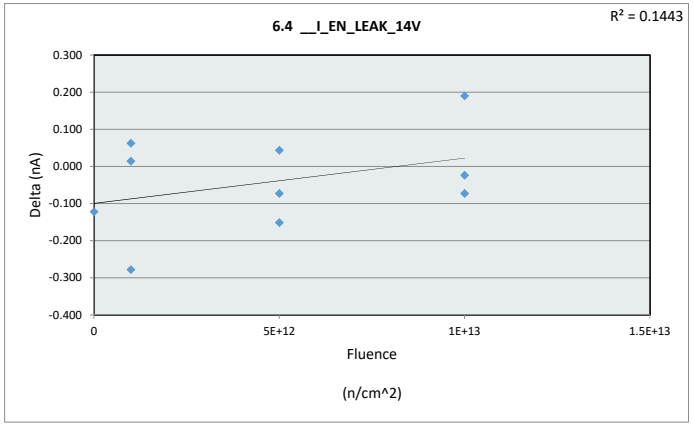
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	98.000	98.000	98.000	98.000
Average	98.000	98.667	98.667	99.333
Max	98.000	100.000	100.000	100.000
UL	105.000	105.000	105.000	105.000



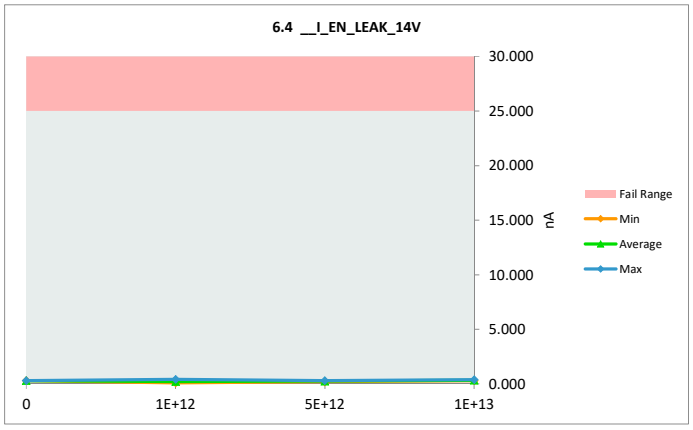
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	6.4 __I_EN_LEAK_14V	
Test Site		
Tester		
Test Number		
Unit	nA	nA
Max Limit	25	25
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.417	0.295	-0.122
1E+12	45	0.359	0.081	-0.278
1E+12	46	0.349	0.412	0.063
1E+12	54	0.154	0.168	0.014
5E+12	57	0.242	0.286	0.044
5E+12	58	0.349	0.276	-0.073
5E+12	60	0.339	0.188	-0.151
1E+13	62	0.144	0.334	0.190
1E+13	65	0.456	0.383	-0.073
1E+13	66	0.310	0.286	-0.024
	Max	0.456	0.412	0.190
	Average	0.312	0.271	-0.041
	Min	0.144	0.081	-0.278
	Std Dev	0.103	0.101	0.130



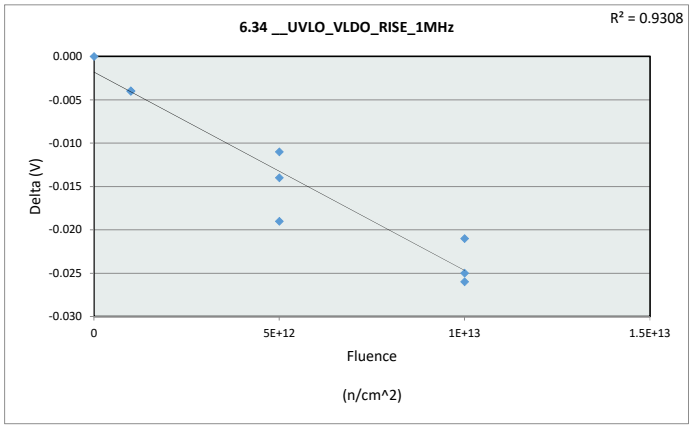
	6.4 __I_EN_LEAK_14V			
Test Site				
Tester				
Test Number				
Max Limit	25	nA		
Min Limit		nA		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	0.295	0.081	0.188	0.286
Average	0.295	0.220	0.250	0.334
Max	0.295	0.412	0.286	0.383
UL	25.000	25.000	25.000	25.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

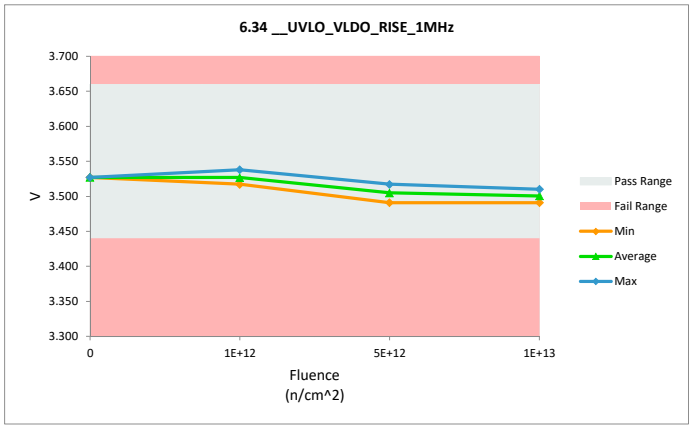
	6.34 __UVLO_VLDO_RISE_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	3.527	3.527	0.000
1E+12	45	3.521	3.517	-0.004
1E+12	46	3.542	3.538	-0.004
1E+12	54	3.529	3.525	-0.004
5E+12	57	3.531	3.517	-0.014
5E+12	58	3.502	3.491	-0.011
5E+12	60	3.525	3.506	-0.019
1E+13	62	3.517	3.491	-0.026
1E+13	65	3.521	3.500	-0.021
1E+13	66	3.535	3.510	-0.025
	Max	3.542	3.538	0.000
	Average	3.525	3.512	-0.013
	Min	3.502	3.491	-0.026
	Std Dev	0.011	0.016	0.010



	6.34 __UVLO_VLDO_RISE_1MHz			
Test Site				
Tester				
Test Number				
Max Limit	3.66	V		
Min Limit	3.44	V		

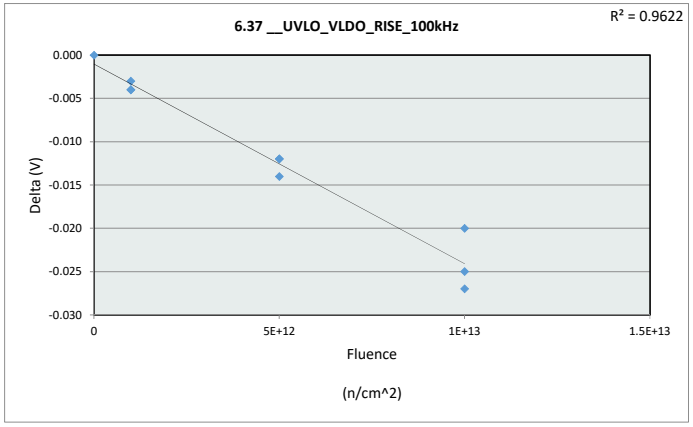
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	3.440	3.440	3.440	3.440
Min	3.527	3.517	3.491	3.491
Average	3.527	3.527	3.505	3.500
Max	3.527	3.538	3.517	3.510
UL	3.660	3.660	3.660	3.660



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

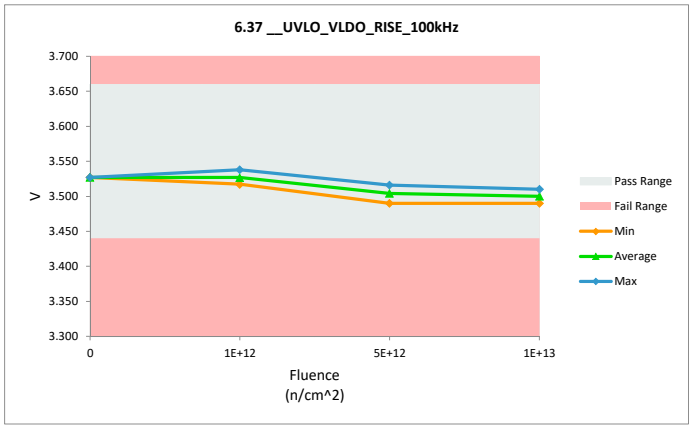
	6.37 __UVLO_VLDO_RISE_100kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.66	3.66
Min Limit	3.44	3.44

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	3.527	3.527	0.000
1E+12	45	3.521	3.517	-0.004
1E+12	46	3.542	3.538	-0.004
1E+12	54	3.528	3.525	-0.003
5E+12	57	3.530	3.516	-0.014
5E+12	58	3.502	3.490	-0.012
5E+12	60	3.518	3.506	-0.012
1E+13	62	3.517	3.490	-0.027
1E+13	65	3.520	3.500	-0.020
1E+13	66	3.535	3.510	-0.025
	Max	3.542	3.538	0.000
	Average	3.524	3.512	-0.012
	Min	3.502	3.490	-0.027
	Std Dev	0.011	0.016	0.010



	6.37 __UVLO_VLDO_RISE_100	
Test Site		
Tester		
Test Number		
Max Limit	3.66	V
Min Limit	3.44	V

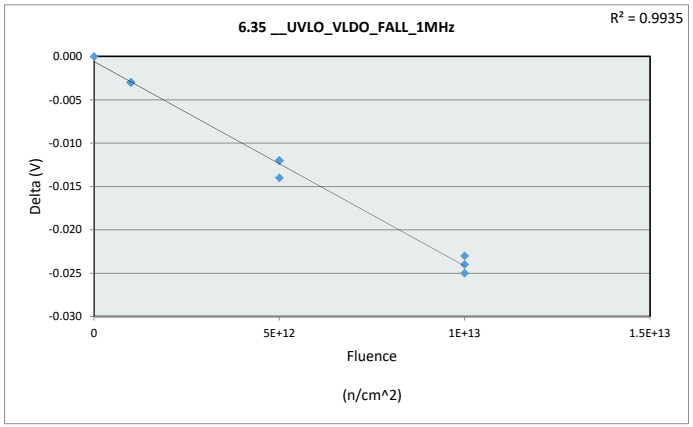
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	3.440	3.440	3.440	3.440
Min	3.527	3.517	3.490	3.490
Average	3.527	3.527	3.504	3.500
Max	3.527	3.538	3.516	3.510
UL	3.660	3.660	3.660	3.660



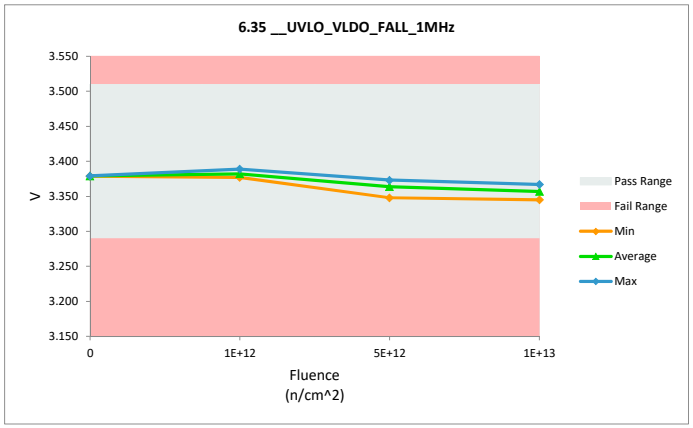
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	6.35 __UVLO_VLDO_FALL_1MHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	3.379	3.379	0.000
1E+12	45	3.380	3.377	-0.003
1E+12	46	3.392	3.389	-0.003
1E+12	54	3.383	3.380	-0.003
5E+12	57	3.387	3.373	-0.014
5E+12	58	3.360	3.348	-0.012
5E+12	60	3.382	3.370	-0.012
1E+13	62	3.369	3.345	-0.024
1E+13	65	3.384	3.359	-0.025
1E+13	66	3.390	3.367	-0.023
	Max	3.392	3.389	0.000
	Average	3.381	3.369	-0.012
	Min	3.360	3.345	-0.025
	Std Dev	0.010	0.014	0.010



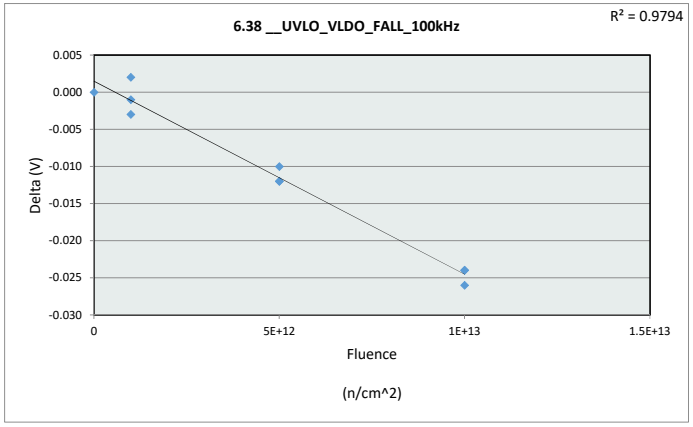
	6.35 __UVLO_VLDO_FALL_1MHz			
Test Site				
Tester				
Test Number				
Max Limit	3.51	V		
Min Limit	3.29	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	3.290	3.290	3.290	3.290
Min	3.379	3.377	3.348	3.345
Average	3.379	3.382	3.364	3.357
Max	3.379	3.389	3.373	3.367
UL	3.510	3.510	3.510	3.510



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

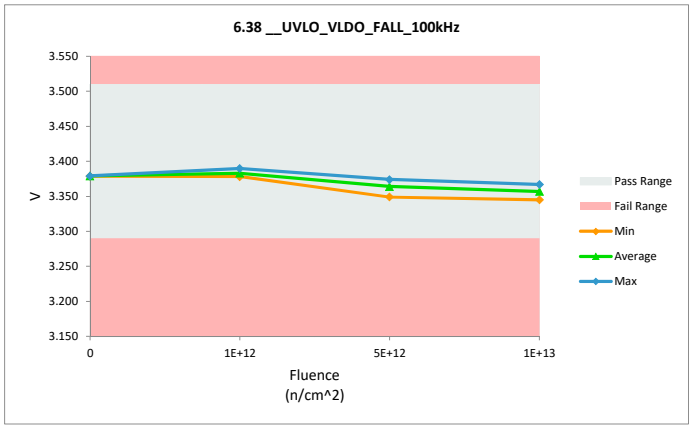
	6.38 __UVLO_VLDO_FALL_100kHz	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	3.51	3.51
Min Limit	3.29	3.29

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	3.379	3.379	0.000
1E+12	45	3.376	3.378	0.002
1E+12	46	3.391	3.390	-0.001
1E+12	54	3.384	3.381	-0.003
5E+12	57	3.386	3.374	-0.012
5E+12	58	3.359	3.349	-0.010
5E+12	60	3.381	3.369	-0.012
1E+13	62	3.369	3.345	-0.024
1E+13	65	3.385	3.359	-0.026
1E+13	66	3.391	3.367	-0.024
	Max	3.391	3.390	0.002
	Average	3.380	3.369	-0.011
	Min	3.359	3.345	-0.026
	Std Dev	0.010	0.014	0.011



	6.38 __UVLO_VLDO_FALL_100			
Test Site				
Tester				
Test Number				
Max Limit	3.51	V		
Min Limit	3.29	V		

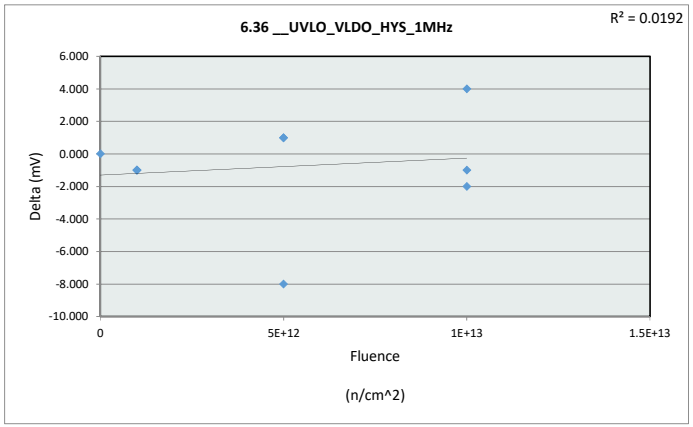
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	3.290	3.290	3.290	3.290
Min	3.379	3.378	3.349	3.345
Average	3.379	3.383	3.364	3.357
Max	3.379	3.390	3.374	3.367
UL	3.510	3.510	3.510	3.510



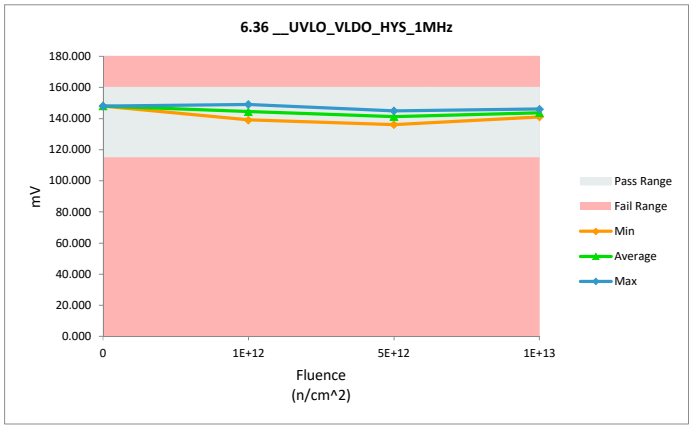
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	6.36 __UVLO_VLDO_HYS_1MHz	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	160	160
Min Limit	115	115

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	148.000	148.000	0.000
1E+12	45	140.000	139.000	-1.000
1E+12	46	150.000	149.000	-1.000
1E+12	54	146.000	145.000	-1.000
5E+12	57	144.000	145.000	1.000
5E+12	58	142.000	143.000	1.000
5E+12	60	144.000	136.000	-8.000
1E+13	62	148.000	146.000	-2.000
1E+13	65	137.000	141.000	4.000
1E+13	66	145.000	144.000	-1.000
	Max	150.000	149.000	4.000
	Average	144.400	143.600	-0.800
	Min	137.000	136.000	-8.000
	Std Dev	3.950	4.006	3.048



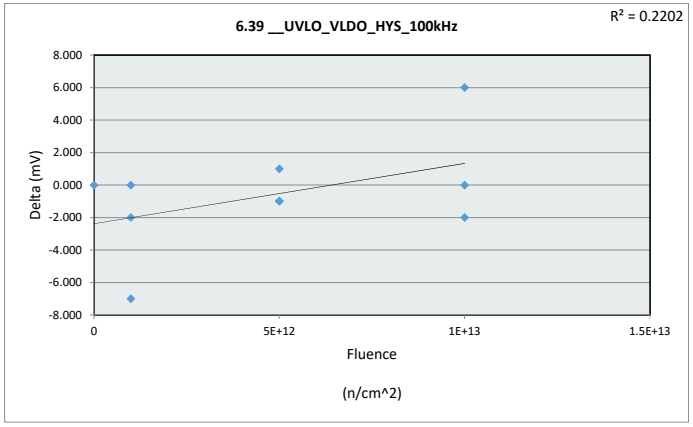
	6.36 __UVLO_VLDO_HYS_1MH			
Test Site				
Tester				
Test Number				
Max Limit	160	mV		
Min Limit	115	mV		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	115.000	115.000	115.000	115.000
Min	148.000	139.000	136.000	141.000
Average	148.000	144.333	141.333	143.667
Max	148.000	149.000	145.000	146.000
UL	160.000	160.000	160.000	160.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

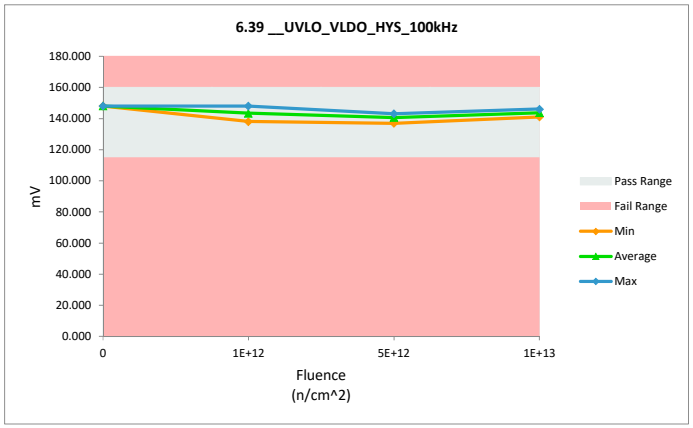
	6.39 __UVLO_VLDO_HYS_100kHz	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	160	160
Min Limit	115	115

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	148.000	148.000	0.000
1E+12	45	145.000	138.000	-7.000
1E+12	46	150.000	148.000	-2.000
1E+12	54	144.000	144.000	0.000
5E+12	57	144.000	143.000	-1.000
5E+12	58	143.000	142.000	-1.000
5E+12	60	136.000	137.000	1.000
1E+13	62	148.000	146.000	-2.000
1E+13	65	135.000	141.000	6.000
1E+13	66	144.000	144.000	0.000
	Max	150.000	148.000	6.000
	Average	143.700	143.100	-0.600
	Min	135.000	137.000	-7.000
	Std Dev	4.877	3.755	3.204



	6.39 __UVLO_VLDO_HYS_100	
Test Site		
Tester		
Test Number		
Max Limit	160	mV
Min Limit	115	mV

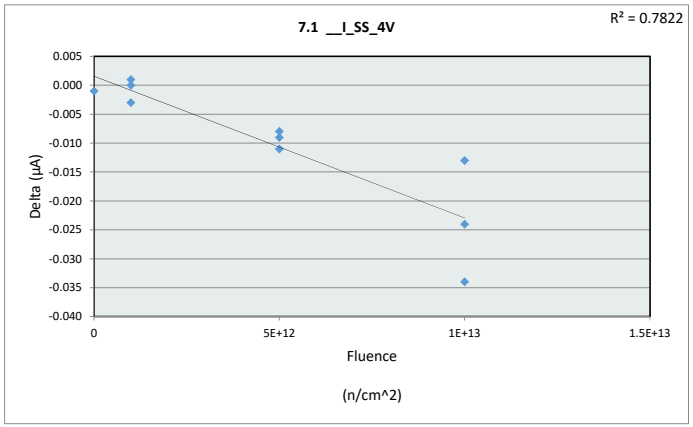
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	115.000	115.000	115.000	115.000
Min	148.000	138.000	137.000	141.000
Average	148.000	143.333	140.667	143.667
Max	148.000	148.000	143.000	146.000
UL	160.000	160.000	160.000	160.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

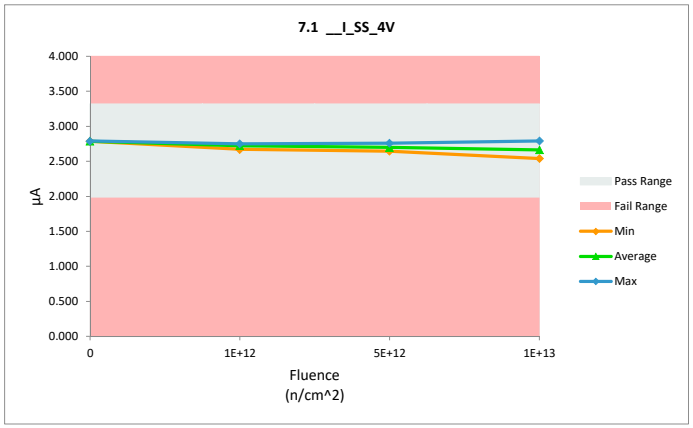
	7.1 __I_SS_4V	
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	3.32	3.32
Min Limit	1.98	1.98

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	2.788	2.787	-0.001
1E+12	45	2.750	2.750	0.000
1E+12	46	2.744	2.745	0.001
1E+12	54	2.673	2.670	-0.003
5E+12	57	2.768	2.759	-0.009
5E+12	58	2.653	2.645	-0.008
5E+12	60	2.696	2.685	-0.011
1E+13	62	2.689	2.665	-0.024
1E+13	65	2.805	2.792	-0.013
1E+13	66	2.573	2.539	-0.034
	Max	2.805	2.792	0.001
	Average	2.714	2.704	-0.010
	Min	2.573	2.539	-0.034
	Std Dev	0.071	0.078	0.011



	7.1 __I_SS_4V			
Test Site				
Tester				
Test Number				
Max Limit	3.32	µA		
Min Limit	1.98	µA		

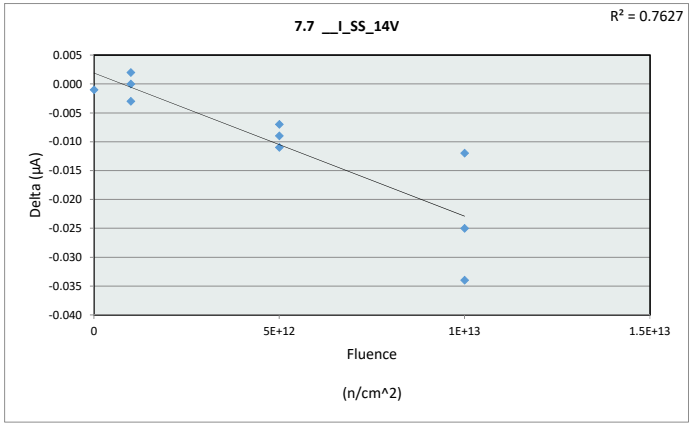
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.980	1.980	1.980	1.980
Min	2.787	2.670	2.645	2.539
Average	2.787	2.722	2.696	2.665
Max	2.787	2.750	2.759	2.792
UL	3.320	3.320	3.320	3.320



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

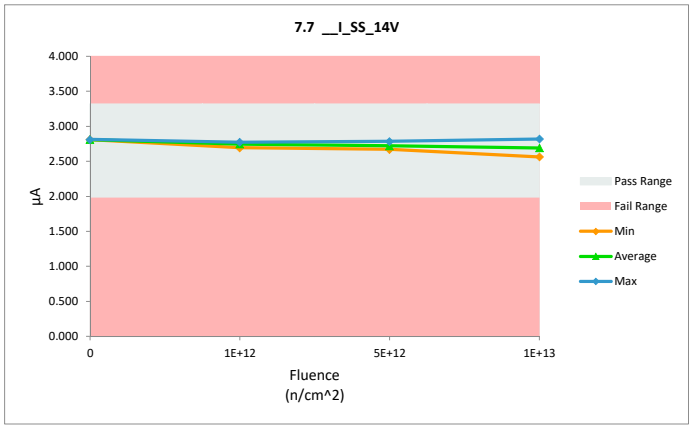
	7.7 __I_SS_14V	
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	3.32	3.32
Min Limit	1.98	1.98

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	2.812	2.811	-0.001
1E+12	45	2.771	2.771	0.000
1E+12	46	2.765	2.767	0.002
1E+12	54	2.695	2.692	-0.003
5E+12	57	2.790	2.783	-0.007
5E+12	58	2.677	2.668	-0.009
5E+12	60	2.718	2.707	-0.011
1E+13	62	2.712	2.687	-0.025
1E+13	65	2.829	2.817	-0.012
1E+13	66	2.596	2.562	-0.034
	Max	2.829	2.817	0.002
	Average	2.736	2.726	-0.010
	Min	2.596	2.562	-0.034
	Std Dev	0.071	0.079	0.011



	7.7 __I_SS_14V	
Test Site		
Tester		
Test Number		
Max Limit	3.32	µA
Min Limit	1.98	µA

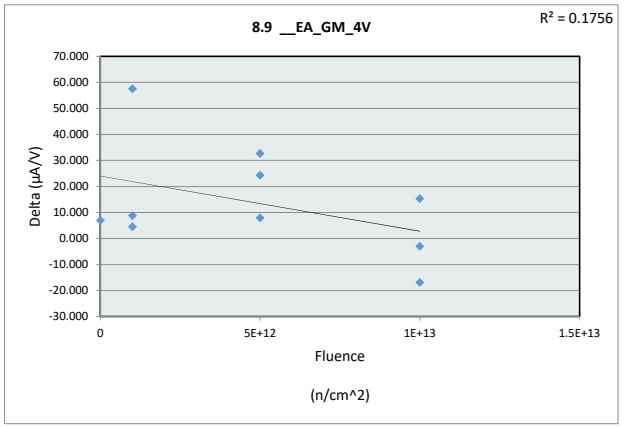
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.980	1.980	1.980	1.980
Min	2.811	2.692	2.668	2.562
Average	2.811	2.743	2.719	2.689
Max	2.811	2.771	2.783	2.817
UL	3.320	3.320	3.320	3.320



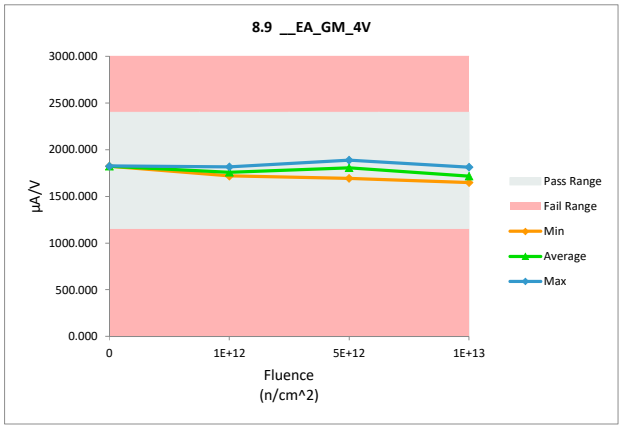
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	8.9 __EA_GM_4V	
Test Site		
Tester		
Test Number		
Unit	µA/V	µA/V
Max Limit	2400	2400
Min Limit	1150	1150

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1816.601	1823.630	7.029
1E+12	45	1732.450	1736.979	4.529
1E+12	46	1757.145	1814.646	57.501
1E+12	54	1708.448	1717.305	8.857
5E+12	57	1827.026	1834.999	7.973
5E+12	58	1667.069	1691.422	24.353
5E+12	60	1855.230	1887.934	32.704
1E+13	62	1710.870	1693.950	-16.920
1E+13	65	1797.662	1813.028	15.366
1E+13	66	1649.507	1646.520	-2.987
	Max	1855.230	1887.934	57.501
	Average	1752.201	1766.041	13.841
	Min	1649.507	1646.520	-16.920
	Std Dev	70.126	78.719	20.539



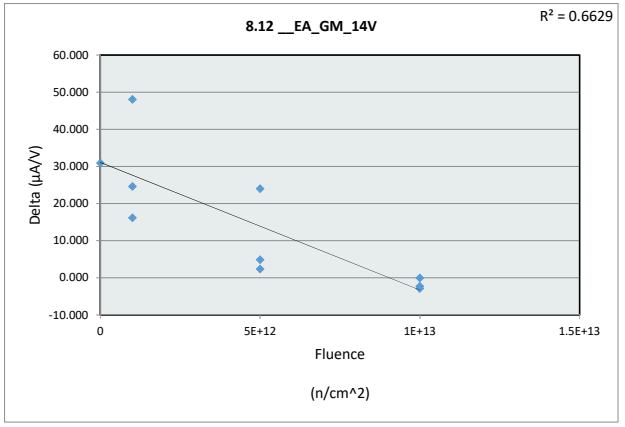
	8.9 __EA_GM_4V			
Test Site				
Tester				
Test Number				
Max Limit	2400	µA/V		
Min Limit	1150	µA/V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1150.000	1150.000	1150.000	1150.000
Min	1823.630	1717.305	1691.422	1646.520
Average	1823.630	1756.310	1804.785	1717.833
Max	1823.630	1814.646	1887.934	1813.028
UL	2400.000	2400.000	2400.000	2400.000



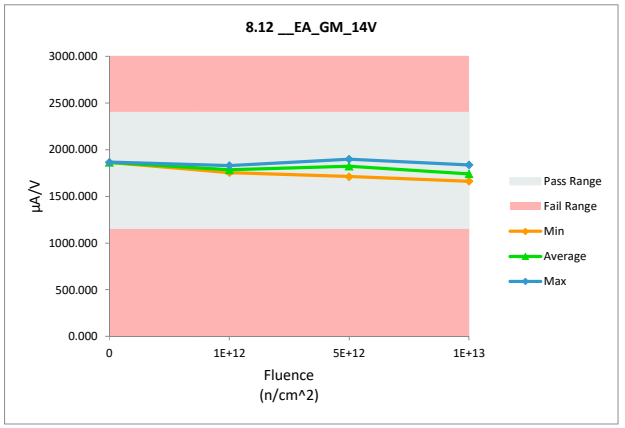
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	8.12 __EA_GM_14V	
Test Site		
Tester		
Test Number		
Unit	µA/V	µA/V
Max Limit	2400	2400
Min Limit	1150	1150

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1833.105	1864.032	30.927
1E+12	45	1747.882	1764.101	16.219
1E+12	46	1780.085	1828.171	48.086
1E+12	54	1727.891	1752.510	24.619
5E+12	57	1831.194	1855.230	24.036
5E+12	58	1705.149	1710.050	4.901
5E+12	60	1896.031	1898.433	2.402
1E+13	62	1726.300	1723.427	-2.873
1E+13	65	1834.989	1834.999	0.010
1E+13	66	1662.230	1659.935	-2.295
	Max	1896.031	1898.433	48.086
	Average	1774.486	1789.089	14.603
	Min	1662.230	1659.935	-2.873
	Std Dev	72.822	78.020	17.083



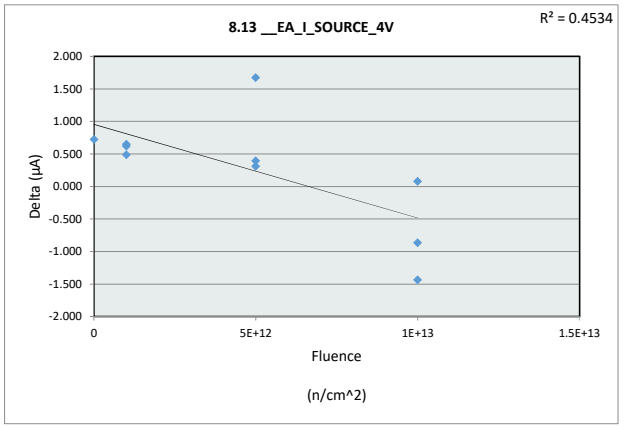
	8.12 __EA_GM_14V			
Test Site				
Tester				
Test Number				
Max Limit	2400	µA/V		
Min Limit	1150	µA/V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1150.000	1150.000	1150.000	1150.000
Min	1864.032	1752.510	1710.050	1659.935
Average	1864.032	1781.594	1821.238	1739.454
Max	1864.032	1828.171	1898.433	1834.999
UL	2400.000	2400.000	2400.000	2400.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

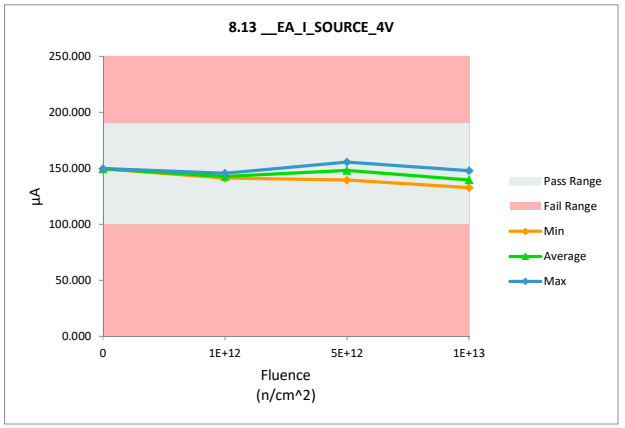
	8.13 __EA_I_SOURCE_4V	
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	190	190
Min Limit	100	100

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	148.893	149.617	0.724
1E+12	45	140.593	141.079	0.486
1E+12	46	145.105	145.726	0.621
1E+12	54	140.591	141.242	0.651
5E+12	57	149.101	149.410	0.309
5E+12	58	139.021	139.417	0.396
5E+12	60	154.009	155.682	1.673
1E+13	62	139.487	138.621	-0.866
1E+13	65	147.732	147.810	0.078
1E+13	66	134.065	132.629	-1.436
	Max	154.009	155.682	1.673
	Average	143.860	144.123	0.264
	Min	134.065	132.629	-1.436
	Std Dev	6.075	6.750	0.866



	8.13 __EA_I_SOURCE_4V	
Test Site		
Tester		
Test Number		
Max Limit	190	µA
Min Limit	100	µA

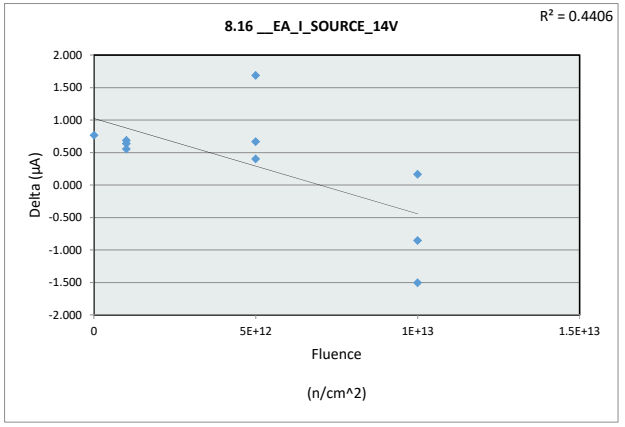
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	100.000	100.000	100.000	100.000
Min	149.617	141.079	139.417	132.629
Average	149.617	142.682	148.170	139.687
Max	149.617	145.726	155.682	147.810
UL	190.000	190.000	190.000	190.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

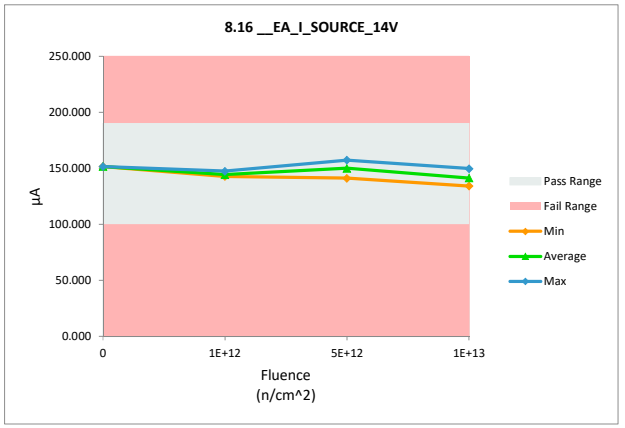
	8.16 __EA_I_SOURCE_14V	
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	190	190
Min Limit	100	100

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	150.801	151.567	0.766
1E+12	45	142.206	142.762	0.556
1E+12	46	146.771	147.457	0.686
1E+12	54	142.073	142.711	0.638
5E+12	57	150.687	151.353	0.666
5E+12	58	140.746	141.148	0.402
5E+12	60	155.648	157.337	1.689
1E+13	62	141.287	140.433	-0.854
1E+13	65	149.448	149.614	0.166
1E+13	66	135.798	134.292	-1.506
	Max	155.648	157.337	1.689
	Average	145.546	145.867	0.321
	Min	135.798	134.292	-1.506
	Std Dev	6.076	6.799	0.896



	8.16 __EA_I_SOURCE_14V	
Test Site		
Tester		
Test Number		
Max Limit	190	µA
Min Limit	100	µA

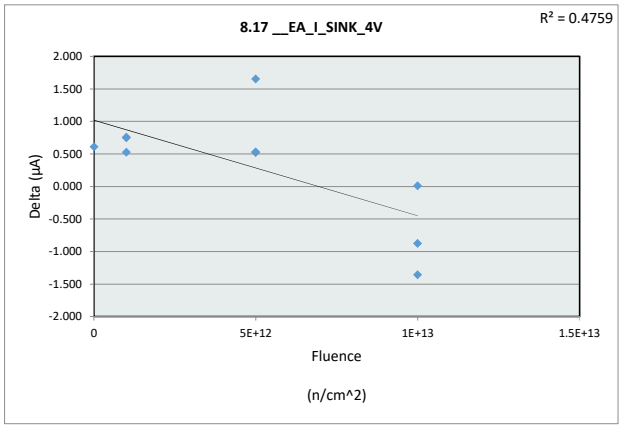
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	100.000	100.000	100.000	100.000
Min	151.567	142.711	141.148	134.292
Average	151.567	144.310	149.946	141.446
Max	151.567	147.457	157.337	149.614
UL	190.000	190.000	190.000	190.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

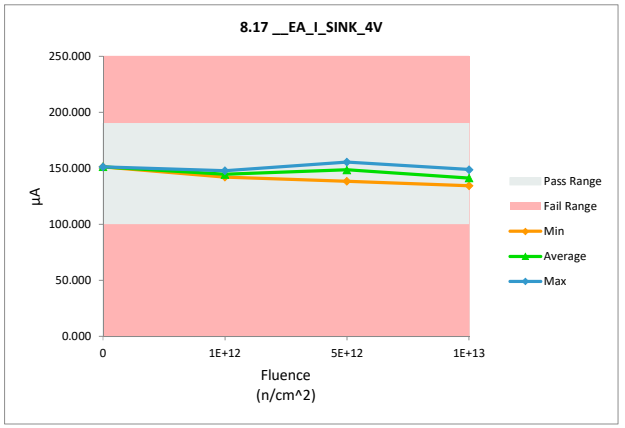
	8.17 __EA_I_SINK_4V	
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	190	190
Min Limit	100	100

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	150.623	151.235	0.612
1E+12	45	143.058	143.586	0.528
1E+12	46	147.122	147.871	0.749
1E+12	54	141.370	142.130	0.760
5E+12	57	150.823	151.347	0.524
5E+12	58	137.821	138.354	0.533
5E+12	60	154.058	155.709	1.651
1E+13	62	141.241	140.366	-0.875
1E+13	65	148.772	148.781	0.009
1E+13	66	135.921	134.566	-1.355
	Max	154.058	155.709	1.651
	Average	145.081	145.395	0.314
	Min	135.921	134.566	-1.355
	Std Dev	6.067	6.663	0.862



	8.17 __EA_I_SINK_4V			
Test Site				
Tester				
Test Number				
Max Limit	190	µA		
Min Limit	100	µA		

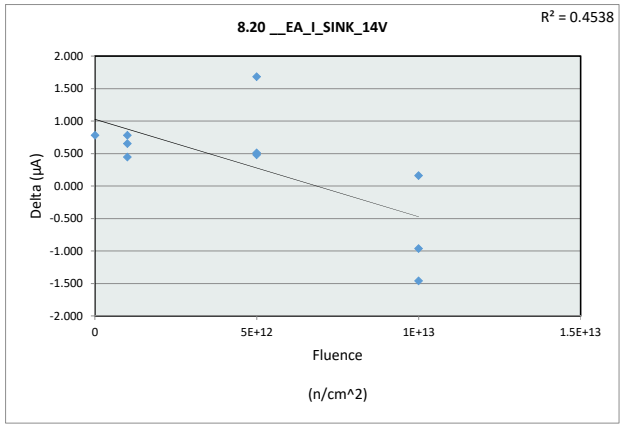
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	100.000	100.000	100.000	100.000
Min	151.235	142.130	138.354	134.566
Average	151.235	144.529	148.470	141.238
Max	151.235	147.871	155.709	148.781
UL	190.000	190.000	190.000	190.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

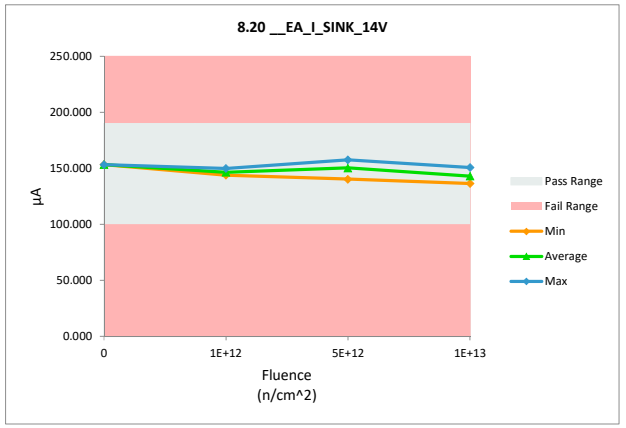
	8.20 __EA_I_SINK_14V	
Test Site		
Tester		
Test Number		
Unit	µA	µA
Max Limit	190	190
Min Limit	100	100

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	152.462	153.244	0.782
1E+12	45	144.936	145.383	0.447
1E+12	46	149.034	149.817	0.783
1E+12	54	143.118	143.769	0.651
5E+12	57	152.717	153.198	0.481
5E+12	58	139.734	140.244	0.510
5E+12	60	155.816	157.498	1.682
1E+13	62	143.093	142.129	-0.964
1E+13	65	150.534	150.696	0.162
1E+13	66	137.782	136.323	-1.459
	Max	155.816	157.498	1.682
	Average	146.923	147.230	0.308
	Min	137.782	136.323	-1.459
	Std Dev	6.048	6.709	0.901



	8.20 __EA_I_SINK_14V			
Test Site				
Tester				
Test Number				
Max Limit	190	µA		
Min Limit	100	µA		

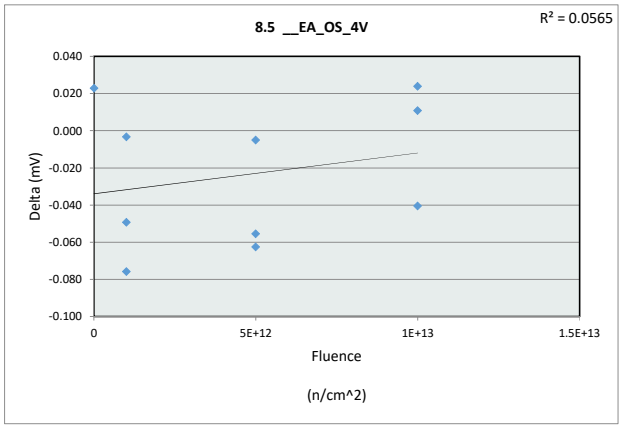
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	100.000	100.000	100.000	100.000
Min	153.244	143.769	140.244	136.323
Average	153.244	146.323	150.313	143.049
Max	153.244	149.817	157.498	150.696
UL	190.000	190.000	190.000	190.000



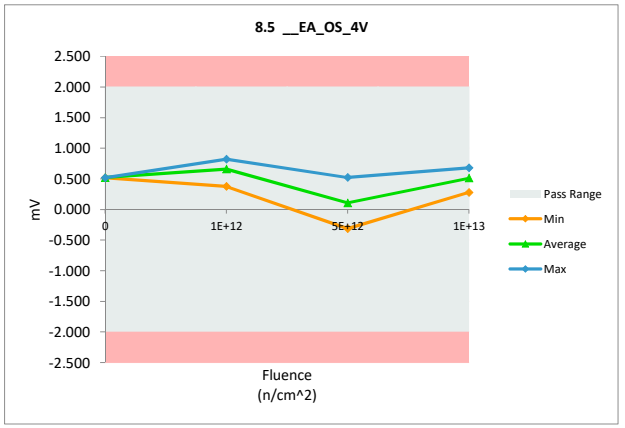
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	8.5 __EA_OS_4V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	2	2
Min Limit	-2	-2

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.498	0.521	0.023
1E+12	45	0.836	0.786	-0.049
1E+12	46	0.824	0.820	-0.003
1E+12	54	0.451	0.376	-0.076
5E+12	57	0.577	0.522	-0.055
5E+12	58	-0.307	-0.312	-0.005
5E+12	60	0.177	0.114	-0.063
1E+13	62	0.655	0.679	0.024
1E+13	65	0.269	0.279	0.011
1E+13	66	0.619	0.578	-0.040
	Max	0.836	0.820	0.024
	Average	0.460	0.436	-0.023
	Min	-0.307	-0.312	-0.076
	Std Dev	0.343	0.342	0.037



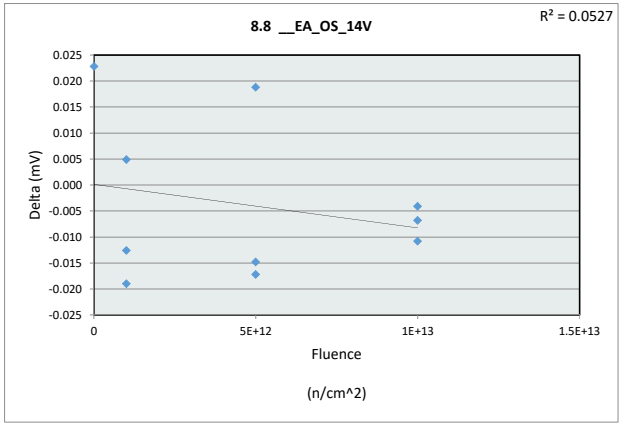
	8.5 __EA_OS_4V			
Test Site				
Tester				
Test Number				
Max Limit	2	mV		
Min Limit	-2	mV		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	-2.000	-2.000	-2.000	-2.000
Min	0.521	0.376	-0.312	0.279
Average	0.521	0.661	0.108	0.512
Max	0.521	0.820	0.522	0.679
UL	2.000	2.000	2.000	2.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

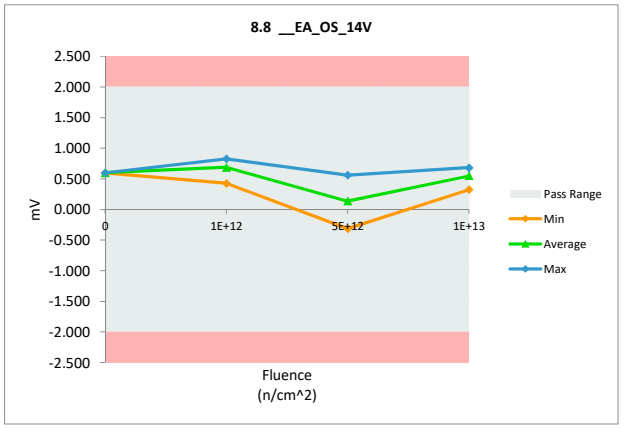
	8.8 __EA_OS_14V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	2	2
Min Limit	-2	-2

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.576	0.599	0.023
1E+12	45	0.832	0.813	-0.019
1E+12	46	0.838	0.826	-0.013
1E+12	54	0.422	0.427	0.005
5E+12	57	0.540	0.559	0.019
5E+12	58	-0.298	-0.312	-0.015
5E+12	60	0.176	0.159	-0.017
1E+13	62	0.687	0.683	-0.004
1E+13	65	0.330	0.323	-0.007
1E+13	66	0.648	0.637	-0.011
	Max	0.838	0.826	0.023
	Average	0.475	0.471	-0.004
	Min	-0.298	-0.312	-0.019
	Std Dev	0.343	0.345	0.015



	8.8 __EA_OS_14V			
Test Site				
Tester				
Test Number				
Max Limit	2	mV		
Min Limit	-2	mV		

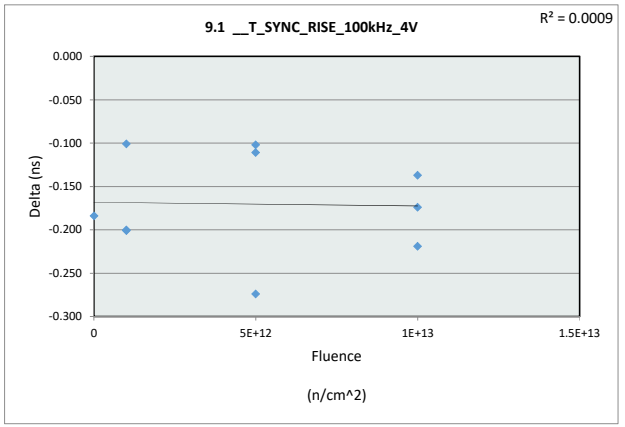
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	-2.000	-2.000	-2.000	-2.000
Min	0.599	0.427	-0.312	0.323
Average	0.599	0.689	0.135	0.548
Max	0.599	0.826	0.559	0.683
UL	2.000	2.000	2.000	2.000



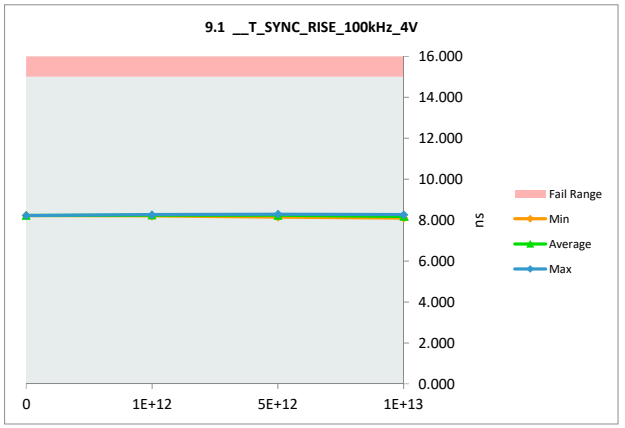
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.1 __T_SYNC_RISE_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	15
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.410	8.226	-0.184
1E+12	45	8.469	8.268	-0.201
1E+12	46	8.367	8.266	-0.101
1E+12	54	8.401	8.201	-0.200
5E+12	57	8.397	8.286	-0.111
5E+12	58	8.361	8.259	-0.102
5E+12	60	8.422	8.148	-0.274
1E+13	62	8.376	8.157	-0.219
1E+13	65	8.401	8.264	-0.137
1E+13	66	8.282	8.108	-0.174
	Max	8.469	8.286	-0.101
	Average	8.389	8.218	-0.170
	Min	8.282	8.108	-0.274
	Std Dev	0.048	0.062	0.057



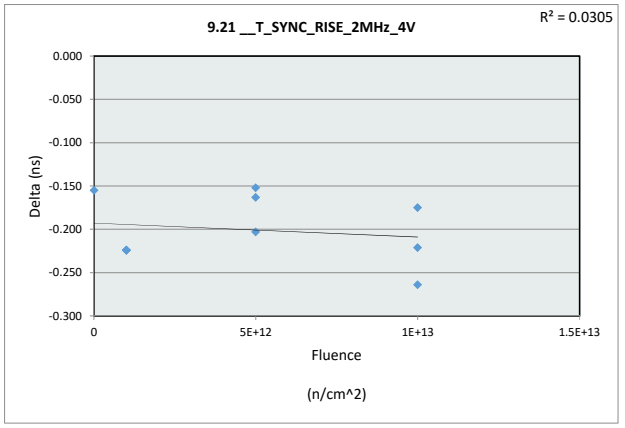
	9.1 __T_SYNC_RISE_100kHz_			
Test Site				
Tester				
Test Number				
Max Limit	15	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.226	8.201	8.148	8.108
Average	8.226	8.245	8.231	8.176
Max	8.226	8.268	8.286	8.264
UL	15.000	15.000	15.000	15.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

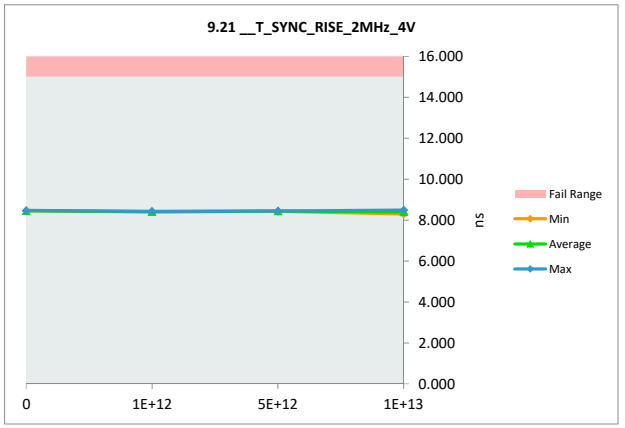
	9.21 __T_SYNC_RISE_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	15
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.623	8.468	-0.155
1E+12	45	8.652	8.428	-0.224
1E+12	46	8.620	8.396	-0.224
1E+12	54	8.640	8.416	-0.224
5E+12	57	8.598	8.446	-0.152
5E+12	58	8.649	8.446	-0.203
5E+12	60	8.595	8.432	-0.163
1E+13	62	8.644	8.380	-0.264
1E+13	65	8.674	8.499	-0.175
1E+13	66	8.528	8.307	-0.221
	Max	8.674	8.499	-0.152
	Average	8.622	8.422	-0.200
	Min	8.528	8.307	-0.264
	Std Dev	0.041	0.053	0.037



	9.21 __T_SYNC_RISE_2MHz_4			
Test Site				
Tester				
Test Number				
Max Limit	15	ns		
Min Limit		ns		

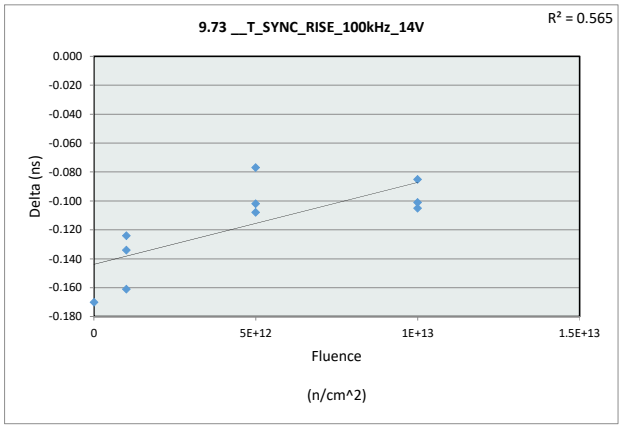
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.468	8.396	8.432	8.307
Average	8.468	8.413	8.441	8.395
Max	8.468	8.428	8.446	8.499
UL	15.000	15.000	15.000	15.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

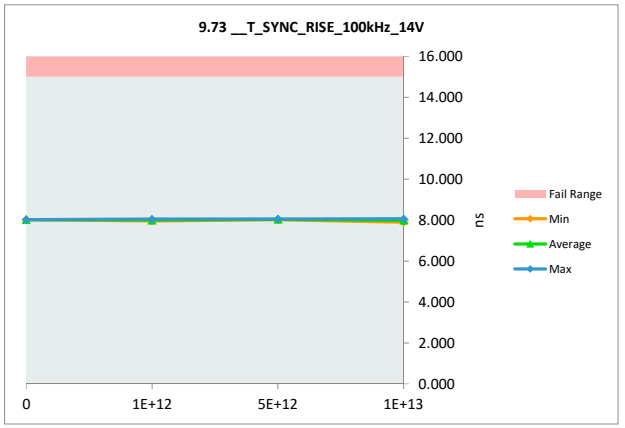
	9.73 __T_SYNC_RISE_100kHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	15
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.192	8.022	-0.170
1E+12	45	8.136	8.002	-0.134
1E+12	46	8.080	7.956	-0.124
1E+12	54	8.205	8.044	-0.161
5E+12	57	8.147	8.045	-0.102
5E+12	58	8.138	8.061	-0.077
5E+12	60	8.124	8.016	-0.108
1E+13	62	8.103	8.018	-0.085
1E+13	65	8.159	8.058	-0.101
1E+13	66	8.010	7.905	-0.105
	Max	8.205	8.061	-0.077
	Average	8.129	8.013	-0.117
	Min	8.010	7.905	-0.170
	Std Dev	0.056	0.049	0.031



	9.73 __T_SYNC_RISE_100kHz	
Test Site		
Tester		
Test Number		
Max Limit	15	ns
Min Limit		ns

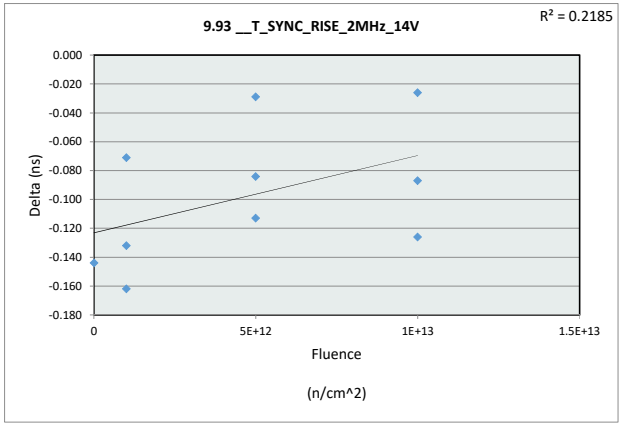
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.022	7.956	8.016	7.905
Average	8.022	8.001	8.041	7.994
Max	8.022	8.044	8.061	8.058
UL	15.000	15.000	15.000	15.000



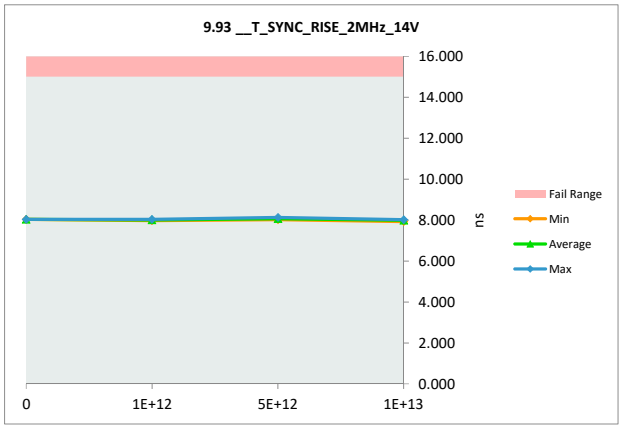
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.93 __T_SYNC_RISE_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	15	15
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.183	8.039	-0.144
1E+12	45	8.072	8.001	-0.071
1E+12	46	8.105	7.973	-0.132
1E+12	54	8.198	8.036	-0.162
5E+12	57	8.158	8.129	-0.029
5E+12	58	8.154	8.070	-0.084
5E+12	60	8.137	8.024	-0.113
1E+13	62	8.055	8.029	-0.026
1E+13	65	8.150	8.024	-0.126
1E+13	66	8.016	7.929	-0.087
	Max	8.198	8.129	-0.026
	Average	8.123	8.025	-0.097
	Min	8.016	7.929	-0.162
	Std Dev	0.059	0.053	0.046



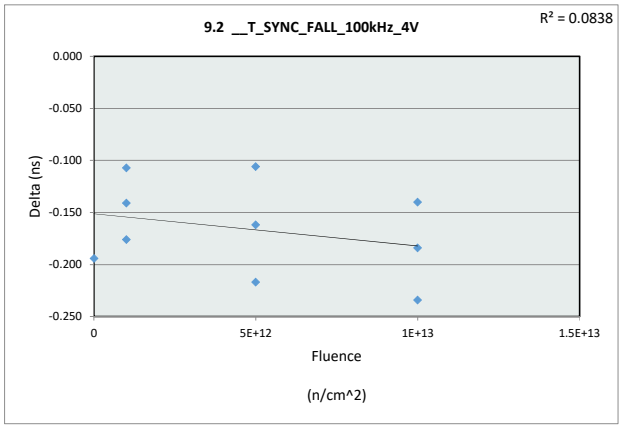
	9.93 __T_SYNC_RISE_2MHz_1			
Test Site				
Tester				
Test Number				
Max Limit	15	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.039	7.973	8.024	7.929
Average	8.039	8.003	8.074	7.994
Max	8.039	8.036	8.129	8.029
UL	15.000	15.000	15.000	15.000



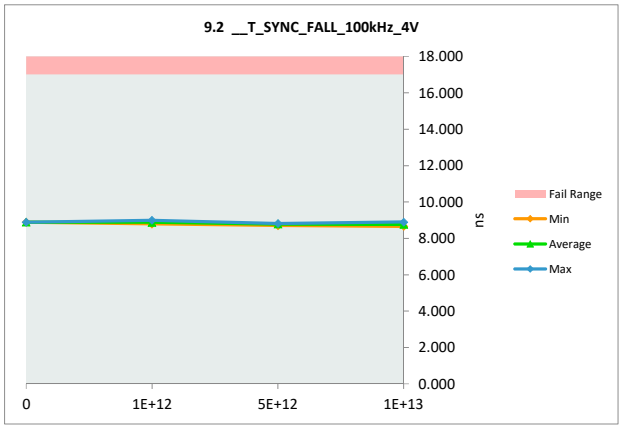
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.2 __T_SYNC_FALL_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.080	8.886	-0.194
1E+12	45	9.166	8.990	-0.176
1E+12	46	8.891	8.784	-0.107
1E+12	54	8.998	8.857	-0.141
5E+12	57	8.918	8.812	-0.106
5E+12	58	8.917	8.700	-0.217
5E+12	60	8.973	8.811	-0.162
1E+13	62	8.995	8.761	-0.234
1E+13	65	9.033	8.893	-0.140
1E+13	66	8.837	8.653	-0.184
	Max	9.166	8.990	-0.106
	Average	8.981	8.815	-0.166
	Min	8.837	8.653	-0.234
	Std Dev	0.097	0.098	0.043



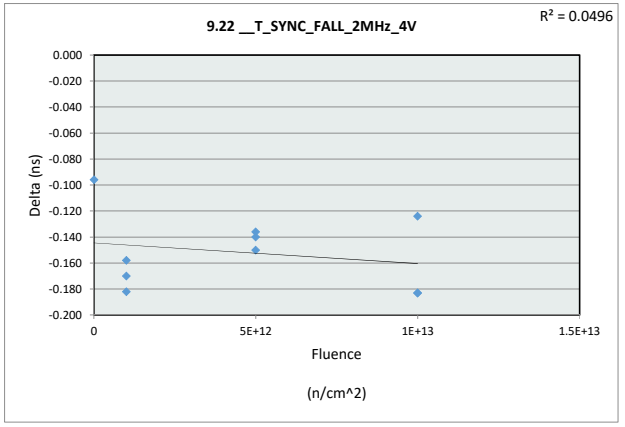
	9.2 __T_SYNC_FALL_100kHz_			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.886	8.784	8.700	8.653
Average	8.886	8.877	8.774	8.769
Max	8.886	8.990	8.812	8.893
UL	17.000	17.000	17.000	17.000



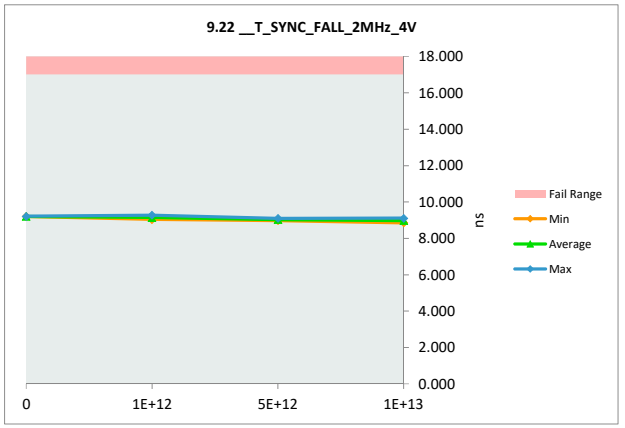
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.22 __T_SYNC_FALL_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.308	9.212	-0.096
1E+12	45	9.438	9.280	-0.158
1E+12	46	9.215	9.033	-0.182
1E+12	54	9.273	9.103	-0.170
5E+12	57	9.240	9.100	-0.140
5E+12	58	9.145	9.009	-0.136
5E+12	60	9.125	8.975	-0.150
1E+13	62	9.136	8.953	-0.183
1E+13	65	9.232	9.108	-0.124
1E+13	66	9.035	8.852	-0.183
	Max	9.438	9.280	-0.096
	Average	9.215	9.063	-0.152
	Min	9.035	8.852	-0.183
	Std Dev	0.113	0.126	0.029



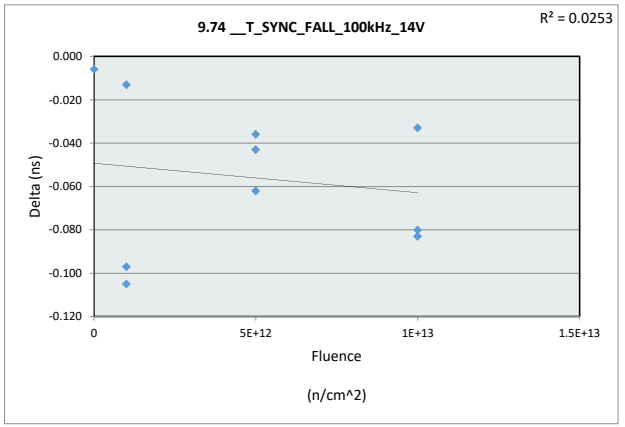
	9.22 __T_SYNC_FALL_2MHz_4			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.212	9.033	8.975	8.852
Average	9.212	9.139	9.028	8.971
Max	9.212	9.280	9.100	9.108
UL	17.000	17.000	17.000	17.000



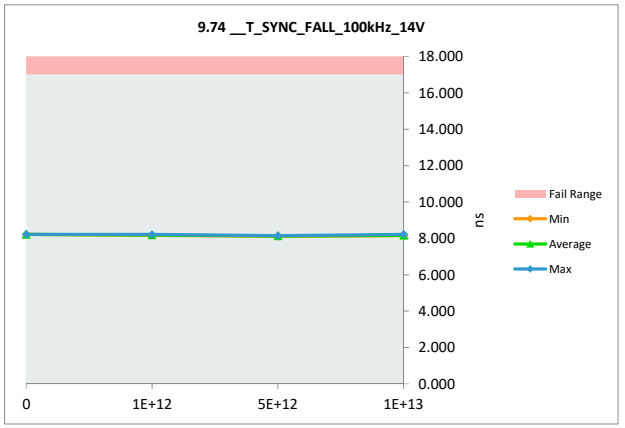
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.74 __T_SYNC_FALL_100kHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.233	8.227	-0.006
1E+12	45	8.264	8.167	-0.097
1E+12	46	8.266	8.161	-0.105
1E+12	54	8.219	8.206	-0.013
5E+12	57	8.177	8.141	-0.036
5E+12	58	8.168	8.106	-0.062
5E+12	60	8.191	8.148	-0.043
1E+13	62	8.216	8.133	-0.083
1E+13	65	8.260	8.227	-0.033
1E+13	66	8.215	8.135	-0.080
	Max	8.266	8.227	-0.006
	Average	8.221	8.165	-0.056
	Min	8.168	8.106	-0.105
	Std Dev	0.035	0.042	0.035



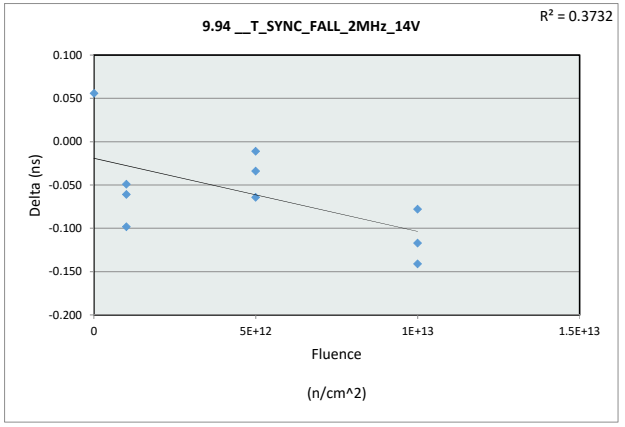
	9.74 __T_SYNC_FALL_100kHz			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.227	8.161	8.106	8.133
Average	8.227	8.178	8.132	8.165
Max	8.227	8.206	8.148	8.227
UL	17.000	17.000	17.000	17.000



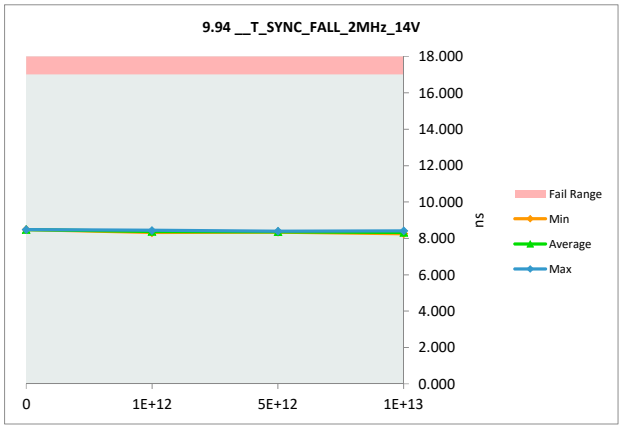
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.94 __T_SYNC_FALL_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.432	8.488	0.056
1E+12	45	8.464	8.366	-0.098
1E+12	46	8.498	8.437	-0.061
1E+12	54	8.362	8.313	-0.049
5E+12	57	8.436	8.402	-0.034
5E+12	58	8.354	8.343	-0.011
5E+12	60	8.400	8.336	-0.064
1E+13	62	8.414	8.297	-0.117
1E+13	65	8.491	8.413	-0.078
1E+13	66	8.399	8.258	-0.141
	Max	8.498	8.488	0.056
	Average	8.425	8.365	-0.060
	Min	8.354	8.258	-0.141
	Std Dev	0.049	0.070	0.056



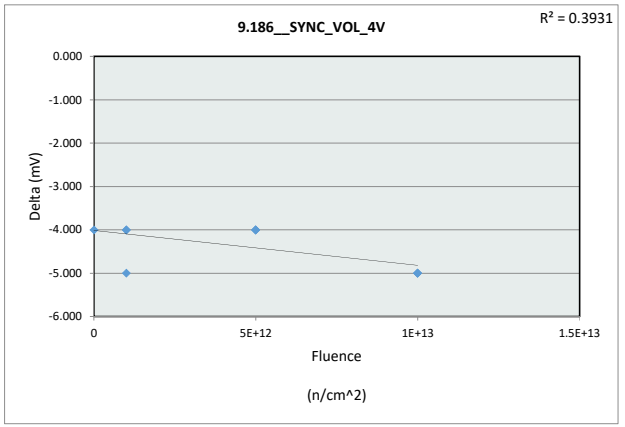
	9.94 __T_SYNC_FALL_2MHz_1			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	8.488	8.313	8.336	8.258
Average	8.488	8.372	8.360	8.323
Max	8.488	8.437	8.402	8.413
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

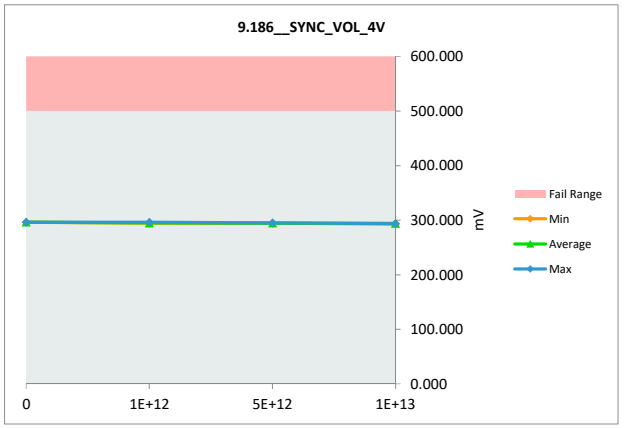
	9.186__SYNC_VOL_4V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	500	500
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	300.000	296.000	-4.000
1E+12	45	301.000	296.000	-5.000
1E+12	46	298.000	294.000	-4.000
1E+12	54	298.000	294.000	-4.000
5E+12	57	299.000	295.000	-4.000
5E+12	58	298.000	294.000	-4.000
5E+12	60	298.000	294.000	-4.000
1E+13	62	298.000	293.000	-5.000
1E+13	65	299.000	294.000	-5.000
1E+13	66	299.000	294.000	-5.000
	Max	301.000	296.000	-4.000
	Average	298.800	294.400	-4.400
	Min	298.000	293.000	-5.000
	Std Dev	1.033	0.966	0.516



	9.186__SYNC_VOL_4V			
Test Site				
Tester				
Test Number				
Max Limit	500	mV		
Min Limit		mV		

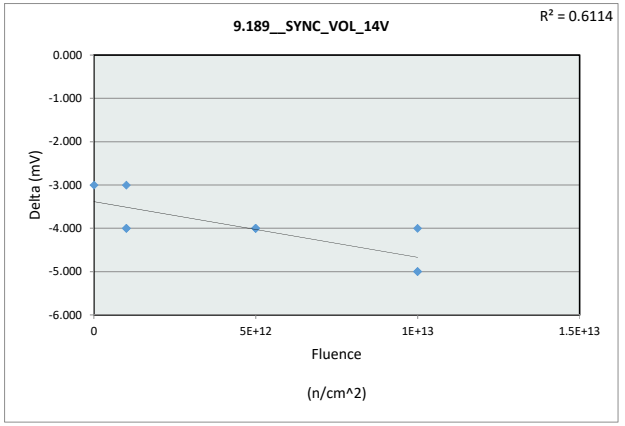
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	296.000	294.000	294.000	293.000
Average	296.000	294.667	294.333	293.667
Max	296.000	296.000	295.000	294.000
UL	500.000	500.000	500.000	500.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

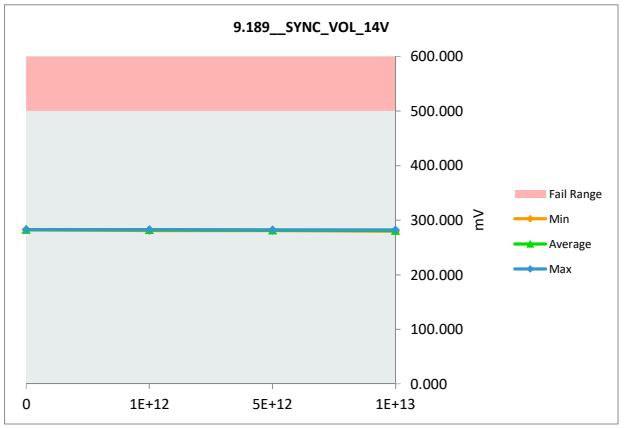
	9.189__SYNC_VOL_14V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	500	500
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	286.000	283.000	-3.000
1E+12	45	287.000	283.000	-4.000
1E+12	46	285.000	281.000	-4.000
1E+12	54	285.000	282.000	-3.000
5E+12	57	286.000	282.000	-4.000
5E+12	58	285.000	281.000	-4.000
5E+12	60	285.000	281.000	-4.000
1E+13	62	285.000	280.000	-5.000
1E+13	65	286.000	282.000	-4.000
1E+13	66	286.000	281.000	-5.000
	Max	287.000	283.000	-3.000
	Average	285.600	281.600	-4.000
	Min	285.000	280.000	-5.000
	Std Dev	0.699	0.966	0.667



	9.189__SYNC_VOL_14V			
Test Site				
Tester				
Test Number				
Max Limit	500	mV		
Min Limit		mV		

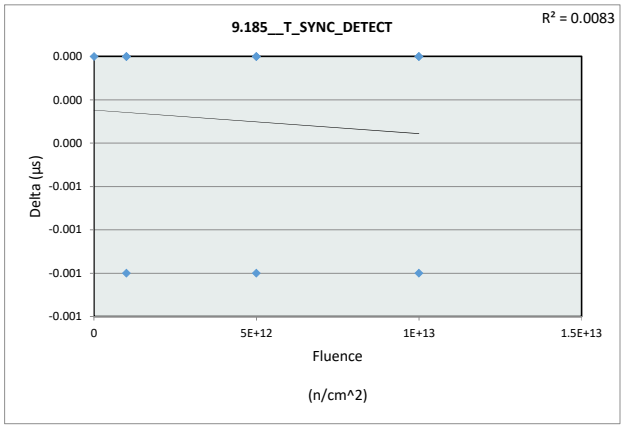
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	283.000	281.000	281.000	280.000
Average	283.000	282.000	281.333	281.000
Max	283.000	283.000	282.000	282.000
UL	500.000	500.000	500.000	500.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

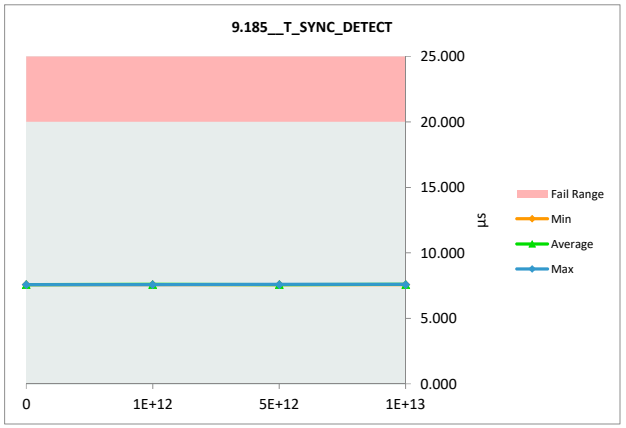
	9.185__T_SYNC_DETECT	
Test Site		
Tester		
Test Number		
Unit	µs	µs
Max Limit	20	20
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.586	7.586	0.000
1E+12	45	7.586	7.586	0.000
1E+12	46	7.586	7.585	-0.001
1E+12	54	7.588	7.588	0.000
5E+12	57	7.587	7.587	0.000
5E+12	58	7.586	7.586	0.000
5E+12	60	7.588	7.587	-0.001
1E+13	62	7.586	7.586	0.000
1E+13	65	7.587	7.587	0.000
1E+13	66	7.587	7.586	-0.001
	Max	7.588	7.588	0.000
	Average	7.587	7.586	0.000
	Min	7.586	7.585	-0.001
	Std Dev	0.001	0.001	0.000



	9.185__T_SYNC_DETECT			
Test Site				
Tester				
Test Number				
Max Limit	20	µs		
Min Limit		µs		

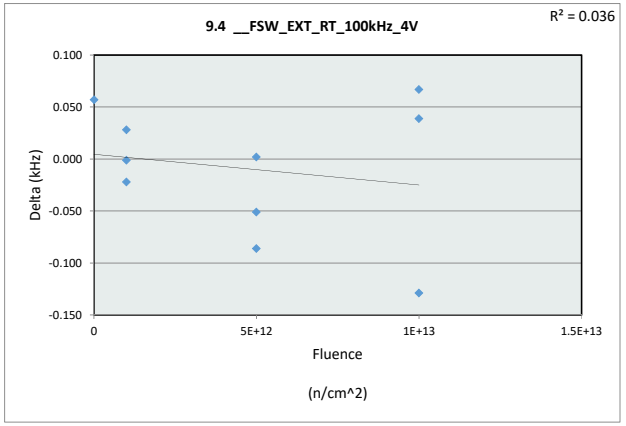
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.586	7.585	7.586	7.586
Average	7.586	7.586	7.587	7.586
Max	7.586	7.588	7.587	7.587
UL	20.000	20.000	20.000	20.000



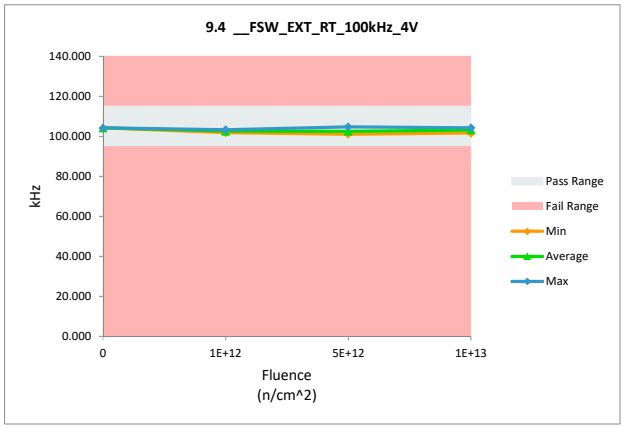
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.4 __FSW_EXT_RT_100kHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	104.115	104.172	0.057
1E+12	45	103.321	103.320	-0.001
1E+12	46	101.862	101.840	-0.022
1E+12	54	102.518	102.546	0.028
5E+12	57	101.175	101.124	-0.051
5E+12	58	101.538	101.452	-0.086
5E+12	60	104.731	104.733	0.002
1E+13	62	103.656	103.527	-0.129
1E+13	65	104.117	104.184	0.067
1E+13	66	101.496	101.535	0.039
	Max	104.731	104.733	0.067
	Average	102.853	102.843	-0.010
	Min	101.175	101.124	-0.129
	Std Dev	1.294	1.313	0.063



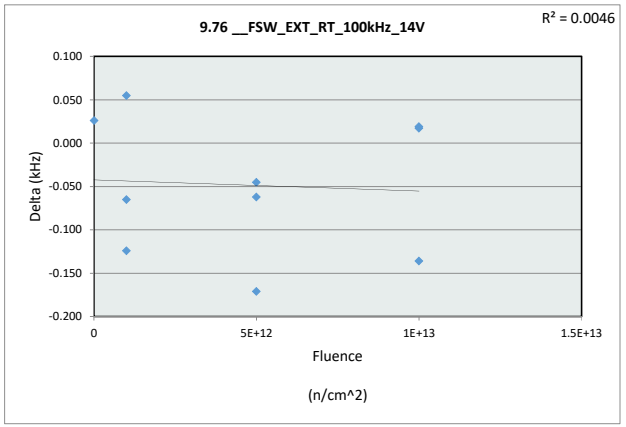
	9.4 __FSW_EXT_RT_100kHz_4			
Test Site				
Tester				
Test Number				
Max Limit	115	kHz		
Min Limit	95	kHz		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	95.000	95.000	95.000	95.000
Min	104.172	101.840	101.124	101.535
Average	104.172	102.569	102.436	103.082
Max	104.172	103.320	104.733	104.184
UL	115.000	115.000	115.000	115.000



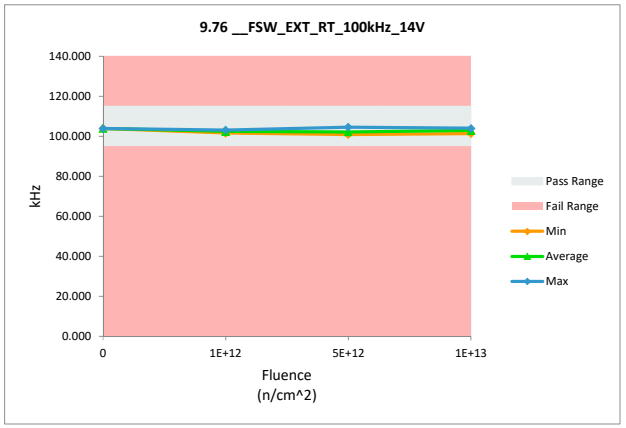
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.76 __FSW_EXT_RT_100kHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	115	115
Min Limit	95	95

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	103.889	103.915	0.026
1E+12	45	103.138	103.073	-0.065
1E+12	46	101.699	101.575	-0.124
1E+12	54	102.371	102.426	0.055
5E+12	57	101.006	100.944	-0.062
5E+12	58	101.419	101.248	-0.171
5E+12	60	104.580	104.535	-0.045
1E+13	62	103.445	103.309	-0.136
1E+13	65	103.940	103.959	0.019
1E+13	66	101.312	101.329	0.017
	Max	104.580	104.535	0.055
	Average	102.680	102.631	-0.049
	Min	101.006	100.944	-0.171
	Std Dev	1.281	1.304	0.077



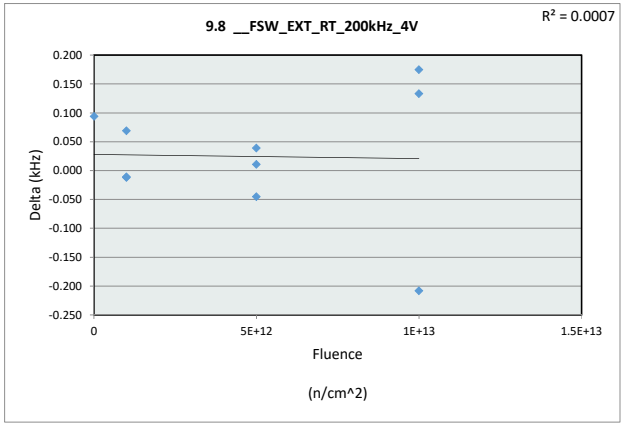
	9.76 __FSW_EXT_RT_100kHz_			
Test Site				
Tester				
Test Number				
Max Limit	115	kHz		
Min Limit	95	kHz		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	95.000	95.000	95.000	95.000
Min	103.915	101.575	100.944	101.329
Average	103.915	102.358	102.242	102.866
Max	103.915	103.073	104.535	103.959
UL	115.000	115.000	115.000	115.000



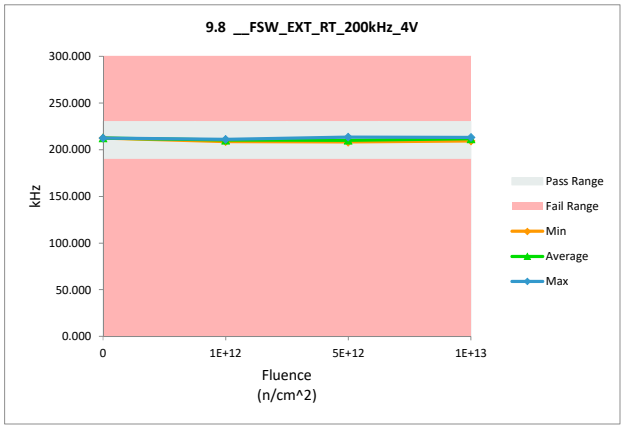
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.8 __FSW_EXT_RT_200kHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	212.220	212.314	0.094
1E+12	45	211.204	211.192	-0.012
1E+12	46	208.581	208.570	-0.011
1E+12	54	210.703	210.772	0.069
5E+12	57	208.103	208.142	0.039
5E+12	58	208.228	208.183	-0.045
5E+12	60	213.552	213.563	0.011
1E+13	62	212.597	212.389	-0.208
1E+13	65	212.859	213.034	0.175
1E+13	66	209.059	209.192	0.133
	Max	213.552	213.563	0.175
	Average	210.711	210.735	0.025
	Min	208.103	208.142	-0.208
	Std Dev	2.082	2.082	0.107



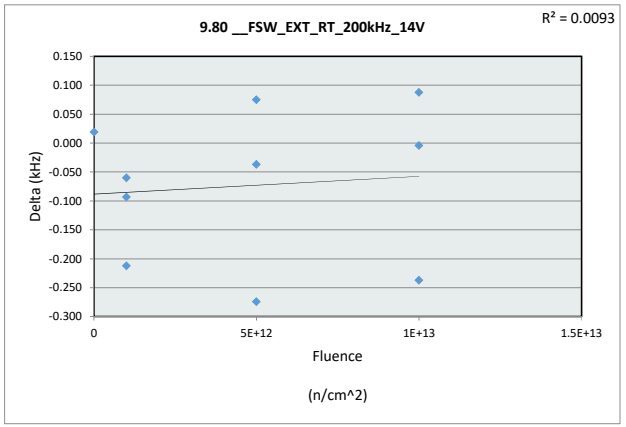
	9.8 __FSW_EXT_RT_200kHz_			
Test Site				
Tester				
Test Number				
Max Limit	230	kHz		
Min Limit	190	kHz		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	190.000	190.000	190.000	190.000
Min	212.314	208.570	208.142	209.192
Average	212.314	210.178	209.963	211.538
Max	212.314	211.192	213.563	213.034
UL	230.000	230.000	230.000	230.000



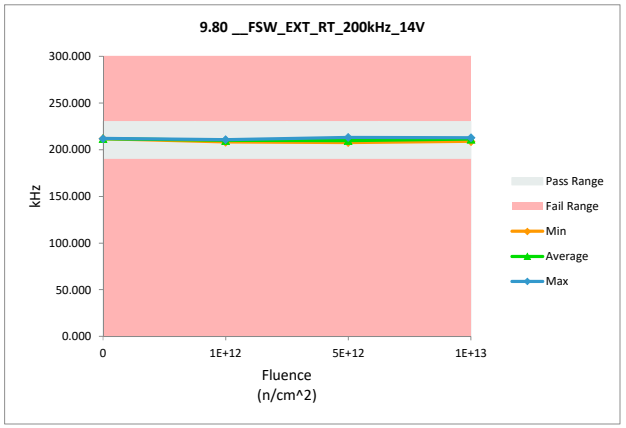
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.80 __FSW_EXT_RT_200kHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	230	230
Min Limit	190	190

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	211.813	211.832	0.019
1E+12	45	210.922	210.829	-0.093
1E+12	46	208.315	208.103	-0.212
1E+12	54	210.383	210.323	-0.060
5E+12	57	207.733	207.808	0.075
5E+12	58	208.056	207.782	-0.274
5E+12	60	213.286	213.249	-0.037
1E+13	62	212.076	211.839	-0.237
1E+13	65	212.580	212.668	0.088
1E+13	66	208.718	208.714	-0.004
	Max	213.286	213.249	0.088
	Average	210.388	210.315	-0.074
	Min	207.733	207.782	-0.274
	Std Dev	2.053	2.087	0.129



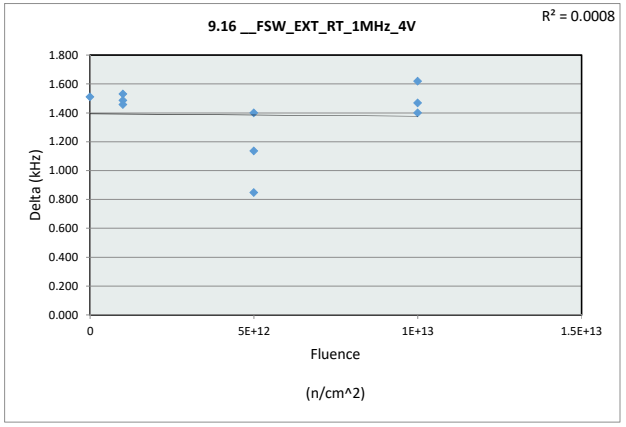
	9.80 __FSW_EXT_RT_200kHz_			
Test Site				
Tester				
Test Number				
Max Limit	230	kHz		
Min Limit	190	kHz		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	190.000	190.000	190.000	190.000
Min	211.832	208.103	207.782	208.714
Average	211.832	209.752	209.613	211.074
Max	211.832	210.829	213.249	212.668
UL	230.000	230.000	230.000	230.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

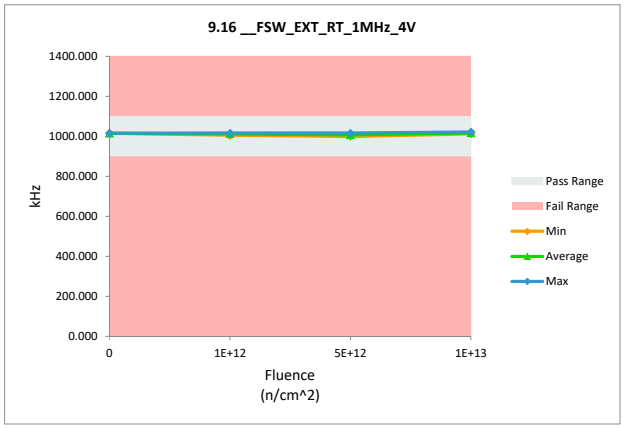
	9.16 __FSW_EXT_RT_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1013.560	1015.070	1.510
1E+12	45	1012.838	1014.368	1.530
1E+12	46	1003.111	1004.598	1.487
1E+12	54	1013.950	1015.407	1.457
5E+12	57	1005.554	1006.691	1.137
5E+12	58	999.121	999.969	0.848
5E+12	60	1014.248	1015.648	1.400
1E+13	62	1018.127	1019.527	1.400
1E+13	65	1019.482	1021.101	1.619
1E+13	66	1010.018	1011.487	1.469
	Max	1019.482	1021.101	1.619
	Average	1011.001	1012.387	1.386
	Min	999.121	999.969	0.848
	Std Dev	6.548	6.716	0.227



	9.16 __FSW_EXT_RT_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	1100	kHz
Min Limit	900	kHz

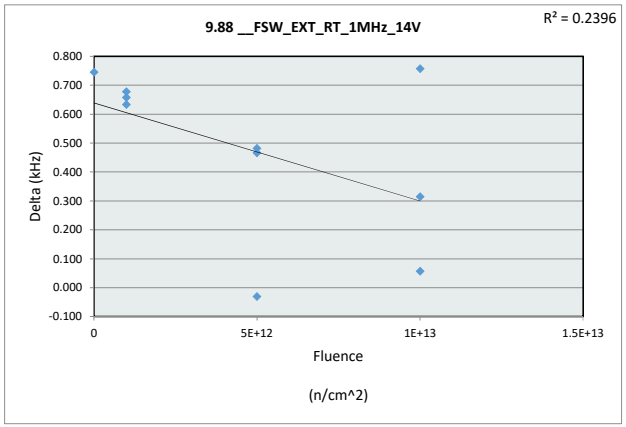
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	900.000	900.000	900.000	900.000
Min	1015.070	1004.598	999.969	1011.487
Average	1015.070	1011.458	1007.436	1017.372
Max	1015.070	1015.407	1015.648	1021.101
UL	1100.000	1100.000	1100.000	1100.000



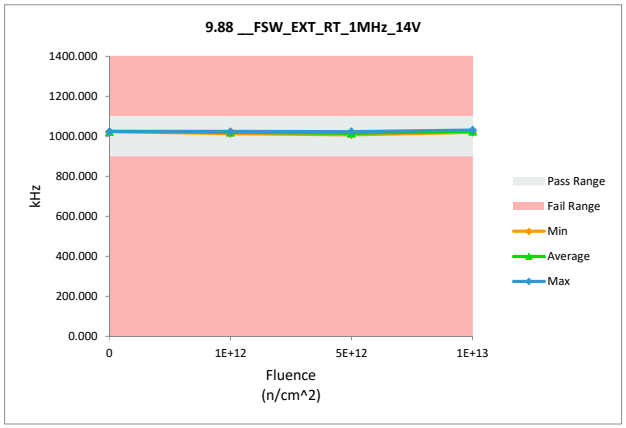
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.88 __FSW_EXT_RT_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	1100	1100
Min Limit	900	900

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1022.593	1023.338	0.745
1E+12	45	1020.872	1021.530	0.658
1E+12	46	1012.541	1013.219	0.678
1E+12	54	1022.817	1023.451	0.634
5E+12	57	1015.286	1015.752	0.466
5E+12	58	1007.685	1007.654	-0.031
5E+12	60	1022.151	1022.633	0.482
1E+13	62	1025.596	1025.911	0.315
1E+13	65	1029.934	1030.691	0.757
1E+13	66	1019.505	1019.562	0.057
	Max	1029.934	1030.691	0.757
	Average	1019.898	1020.374	0.476
	Min	1007.685	1007.654	-0.031
	Std Dev	6.495	6.640	0.281



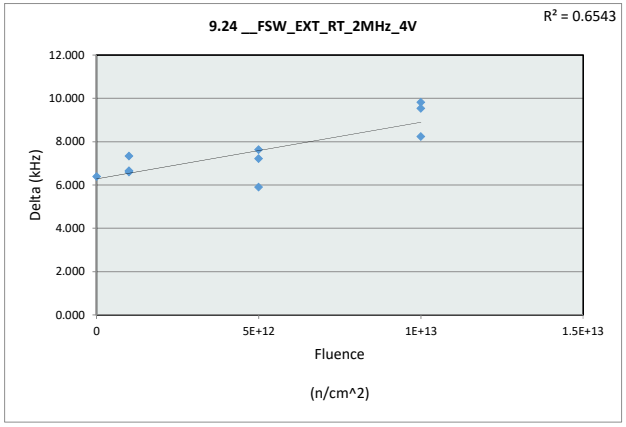
	9.88 __FSW_EXT_RT_1MHz_1			
Test Site				
Tester				
Test Number				
Max Limit	1100	kHz		
Min Limit	900	kHz		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	900.000	900.000	900.000	900.000
Min	1023.338	1013.219	1007.654	1019.562
Average	1023.338	1019.400	1015.346	1025.388
Max	1023.338	1023.451	1022.633	1030.691
UL	1100.000	1100.000	1100.000	1100.000



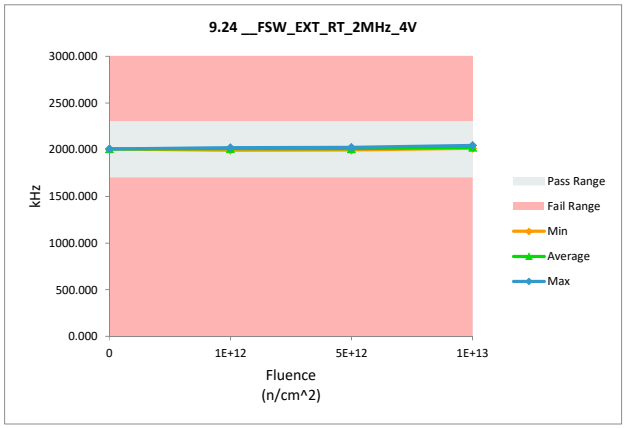
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	9.24 __FSW_EXT_RT_2MHz_4V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	2000.688	2007.085	6.397
1E+12	45	2012.600	2019.204	6.604
1E+12	46	1986.035	1992.694	6.659
1E+12	54	2012.686	2020.032	7.346
5E+12	57	1988.454	1994.357	5.903
5E+12	58	1998.075	2005.703	7.628
5E+12	60	2016.046	2023.261	7.215
1E+13	62	2035.905	2045.443	9.538
1E+13	65	2009.291	2017.534	8.243
1E+13	66	2006.162	2015.978	9.816
	Max	2035.905	2045.443	9.816
	Average	2006.594	2014.129	7.535
	Min	1986.035	1992.694	5.903
	Std Dev	14.485	15.314	1.310



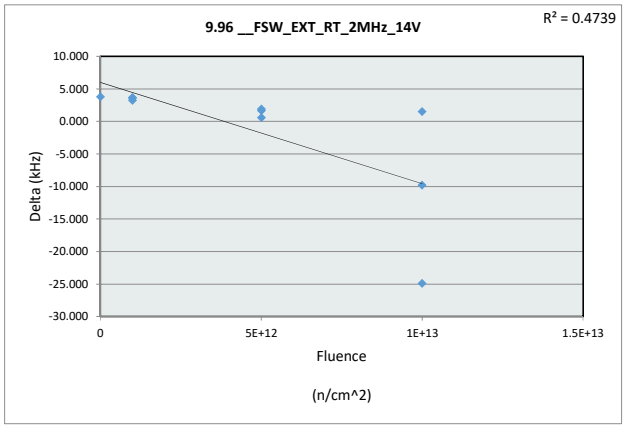
	9.24 __FSW_EXT_RT_2MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	2300	kHz		
Min Limit	1700	kHz		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1700.000	1700.000	1700.000	1700.000
Min	2007.085	1992.694	1994.357	2015.978
Average	2007.085	2010.643	2007.774	2026.318
Max	2007.085	2020.032	2023.261	2045.443
UL	2300.000	2300.000	2300.000	2300.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

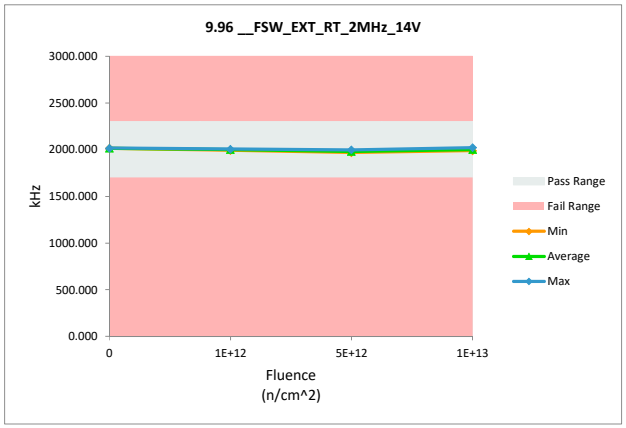
	9.96 __FSW_EXT_RT_2MHz_14V	
Test Site		
Tester		
Test Number		
Unit	kHz	kHz
Max Limit	2300	2300
Min Limit	1700	1700

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	2011.956	2015.736	3.780
1E+12	45	1988.424	1991.990	3.566
1E+12	46	2002.459	2005.708	3.249
1E+12	54	1999.992	2003.678	3.686
5E+12	57	1997.892	1998.453	0.561
5E+12	58	1966.345	1968.249	1.904
5E+12	60	1973.216	1974.878	1.662
1E+13	62	1987.314	1988.827	1.513
1E+13	65	2032.541	2022.764	-9.777
1E+13	66	2013.821	1988.911	-24.910
	Max	2032.541	2022.764	3.780
	Average	1997.396	1995.919	-1.477
	Min	1966.345	1968.249	-24.910
	Std Dev	19.665	16.993	9.156



	9.96 __FSW_EXT_RT_2MHz_1	
Test Site		
Tester		
Test Number		
Max Limit	2300	kHz
Min Limit	1700	kHz

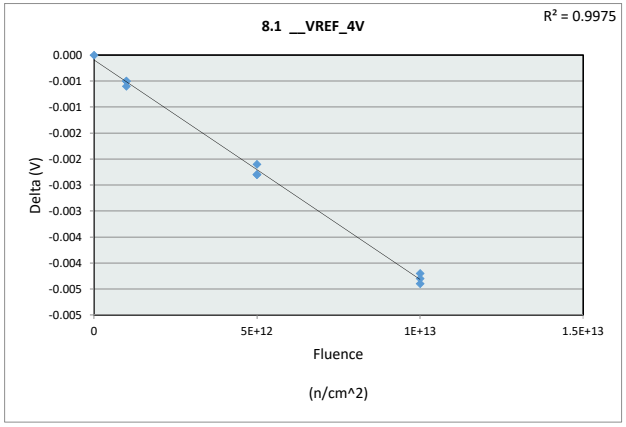
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1700.000	1700.000	1700.000	1700.000
Min	2015.736	1991.990	1968.249	1988.827
Average	2015.736	2000.459	1980.527	2000.167
Max	2015.736	2005.708	1998.453	2022.764
UL	2300.000	2300.000	2300.000	2300.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

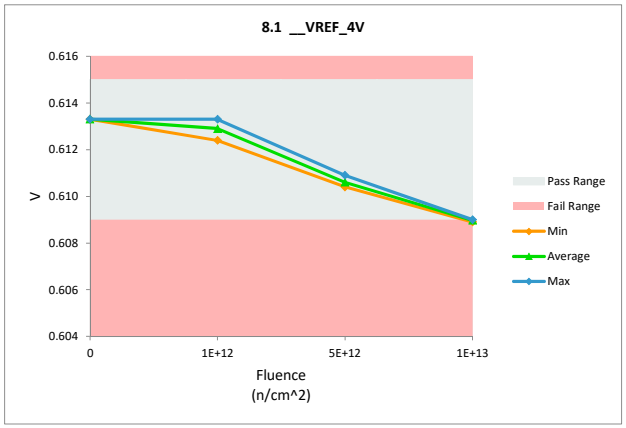
	8.1 __VREF_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.609	0.609

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.613	0.613	0.000
1E+12	45	0.614	0.613	-0.001
1E+12	46	0.613	0.613	-0.001
1E+12	54	0.613	0.612	-0.001
5E+12	57	0.613	0.611	-0.002
5E+12	58	0.613	0.610	-0.002
5E+12	60	0.613	0.610	-0.002
1E+13	62	0.613	0.609	-0.004
1E+13	65	0.613	0.609	-0.004
1E+13	66	0.613	0.609	-0.004
	Max	0.614	0.613	0.000
	Average	0.613	0.611	-0.002
	Min	0.613	0.609	-0.004
	Std Dev	0.000	0.002	0.002



	8.1 __VREF_4V			
Test Site				
Tester				
Test Number				
Max Limit	0.615	V		
Min Limit	0.609	V		

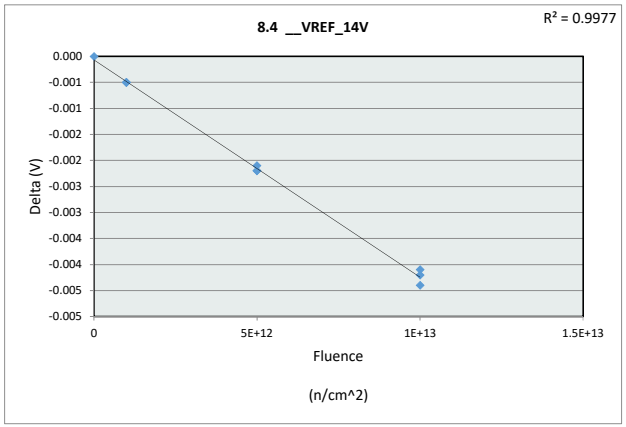
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.609	0.609	0.609	0.609
Min	0.613	0.612	0.610	0.609
Average	0.613	0.613	0.611	0.609
Max	0.613	0.613	0.611	0.609
UL	0.615	0.615	0.615	0.615



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

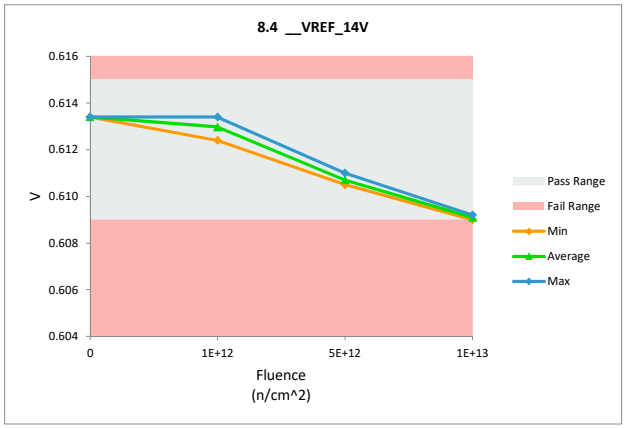
	8.4 __VREF_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.615	0.615
Min Limit	0.609	0.609

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.613	0.613	0.000
1E+12	45	0.614	0.613	-0.001
1E+12	46	0.614	0.613	-0.001
1E+12	54	0.613	0.612	-0.001
5E+12	57	0.613	0.611	-0.002
5E+12	58	0.613	0.610	-0.002
5E+12	60	0.613	0.611	-0.002
1E+13	62	0.613	0.609	-0.004
1E+13	65	0.613	0.609	-0.004
1E+13	66	0.613	0.609	-0.004
	Max	0.614	0.613	0.000
	Average	0.613	0.611	-0.002
	Min	0.613	0.609	-0.004
	Std Dev	0.000	0.002	0.002



	8.4 __VREF_14V			
Test Site				
Tester				
Test Number				
Max Limit	0.615	V		
Min Limit	0.609	V		

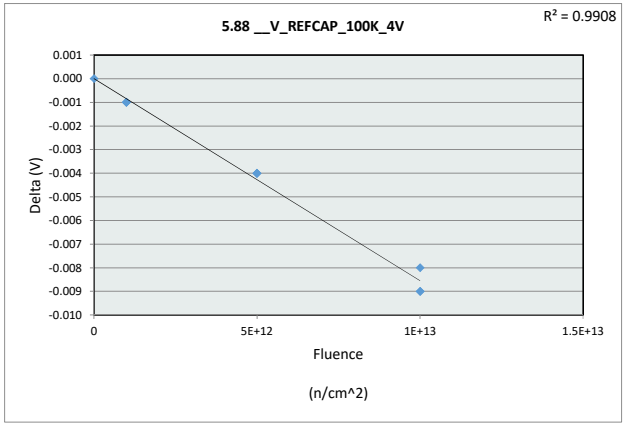
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.609	0.609	0.609	0.609
Min	0.613	0.612	0.611	0.609
Average	0.613	0.613	0.611	0.609
Max	0.613	0.613	0.611	0.609
UL	0.615	0.615	0.615	0.615



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

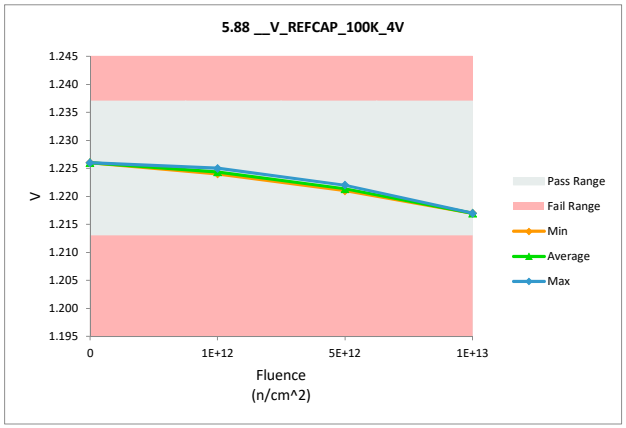
	5.88 __V_REFCAP_100K_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.226	1.226	0.000
1E+12	45	1.226	1.225	-0.001
1E+12	46	1.225	1.224	-0.001
1E+12	54	1.225	1.224	-0.001
5E+12	57	1.225	1.221	-0.004
5E+12	58	1.226	1.222	-0.004
5E+12	60	1.225	1.221	-0.004
1E+13	62	1.226	1.217	-0.009
1E+13	65	1.226	1.217	-0.009
1E+13	66	1.225	1.217	-0.008
	Max	1.226	1.226	0.000
	Average	1.225	1.221	-0.004
	Min	1.225	1.217	-0.009
	Std Dev	0.001	0.003	0.003



	5.88 __V_REFCAP_100K_4V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		

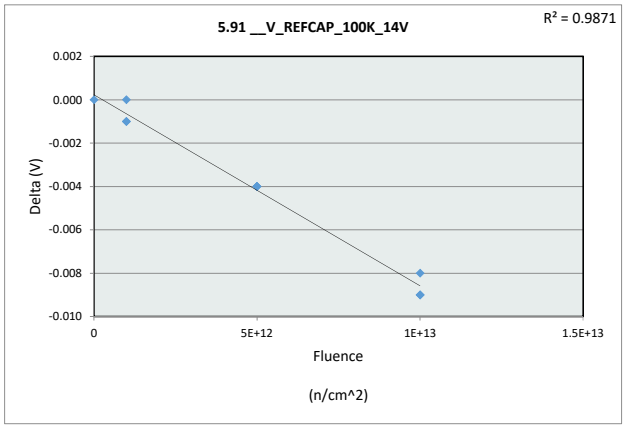
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.226	1.224	1.221	1.217
Average	1.226	1.224	1.221	1.217
Max	1.226	1.225	1.222	1.217
UL	1.237	1.237	1.237	1.237



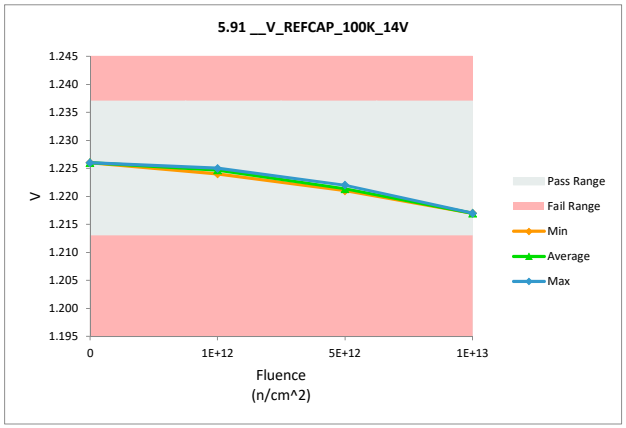
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.91 __V_REFCAP_100K_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.226	1.226	0.000
1E+12	45	1.226	1.225	-0.001
1E+12	46	1.225	1.225	0.000
1E+12	54	1.225	1.224	-0.001
5E+12	57	1.225	1.221	-0.004
5E+12	58	1.226	1.222	-0.004
5E+12	60	1.225	1.221	-0.004
1E+13	62	1.226	1.217	-0.009
1E+13	65	1.226	1.217	-0.009
1E+13	66	1.225	1.217	-0.008
	Max	1.226	1.226	0.000
	Average	1.225	1.221	-0.004
	Min	1.225	1.217	-0.009
	Std Dev	0.001	0.004	0.004



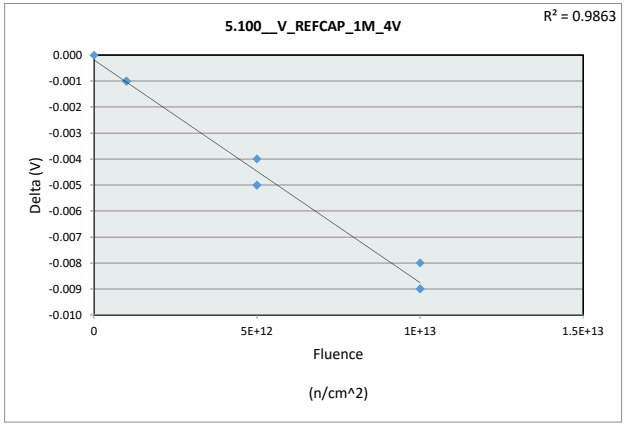
	5.91 __V_REFCAP_100K_14V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.226	1.224	1.221	1.217
Average	1.226	1.225	1.221	1.217
Max	1.226	1.225	1.222	1.217
UL	1.237	1.237	1.237	1.237



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

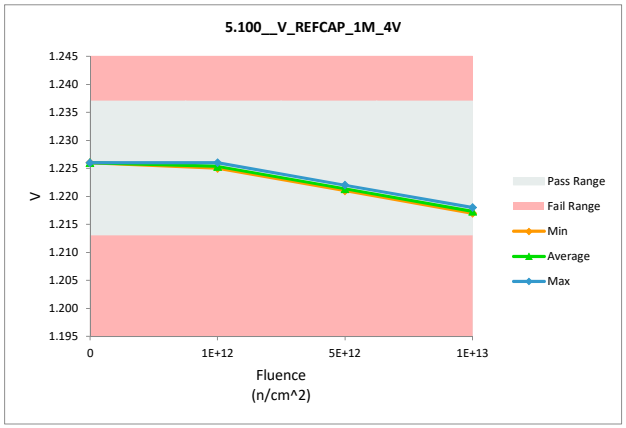
	5.100__V_REFCAP_1M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.226	1.226	0.000
1E+12	45	1.227	1.226	-0.001
1E+12	46	1.226	1.225	-0.001
1E+12	54	1.226	1.225	-0.001
5E+12	57	1.226	1.221	-0.005
5E+12	58	1.226	1.222	-0.004
5E+12	60	1.226	1.221	-0.005
1E+13	62	1.226	1.217	-0.009
1E+13	65	1.226	1.218	-0.008
1E+13	66	1.226	1.217	-0.009
	Max	1.227	1.226	0.000
	Average	1.226	1.222	-0.004
	Min	1.226	1.217	-0.009
	Std Dev	0.000	0.004	0.003



	5.100__V_REFCAP_1M_4V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		

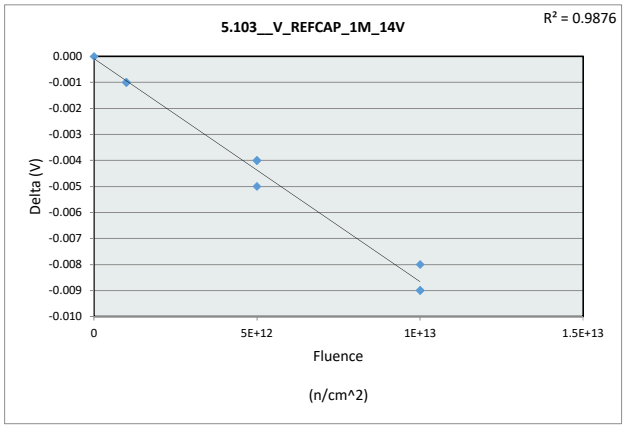
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.221	1.217
Average	1.226	1.225	1.221	1.217
Max	1.226	1.226	1.222	1.218
UL	1.237	1.237	1.237	1.237



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

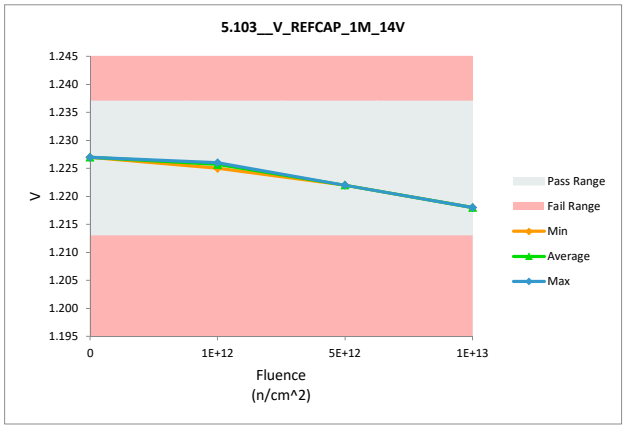
	5.103__V_REFCAP_1M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.227	1.227	0.000
1E+12	45	1.227	1.226	-0.001
1E+12	46	1.227	1.226	-0.001
1E+12	54	1.226	1.225	-0.001
5E+12	57	1.226	1.222	-0.004
5E+12	58	1.227	1.222	-0.005
5E+12	60	1.226	1.222	-0.004
1E+13	62	1.227	1.218	-0.009
1E+13	65	1.227	1.218	-0.009
1E+13	66	1.226	1.218	-0.008
	Max	1.227	1.227	0.000
	Average	1.227	1.222	-0.004
	Min	1.226	1.218	-0.009
	Std Dev	0.001	0.004	0.003



	5.103__V_REFCAP_1M_14V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		

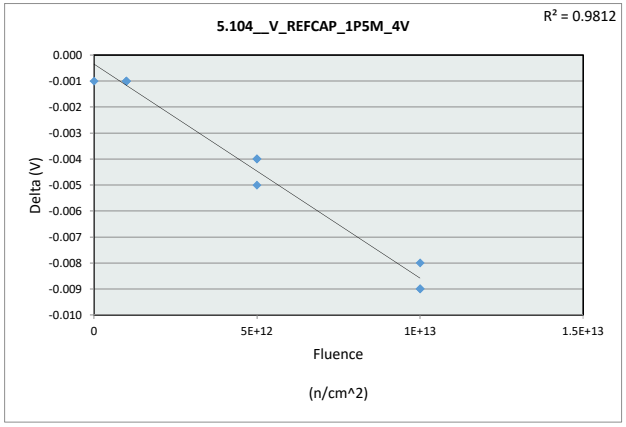
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.227	1.225	1.222	1.218
Average	1.227	1.226	1.222	1.218
Max	1.227	1.226	1.222	1.218
UL	1.237	1.237	1.237	1.237



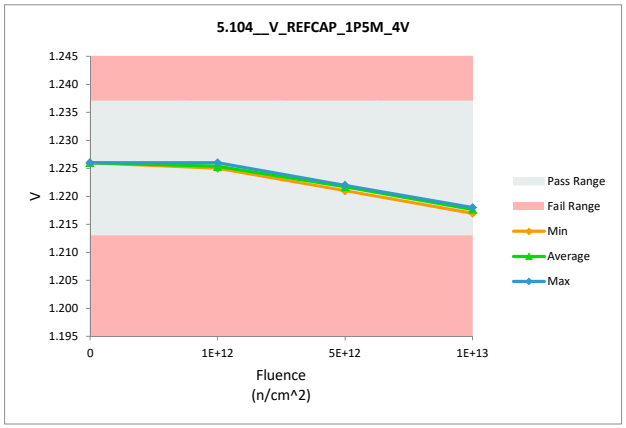
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	5.104__V_REFCAP_1P5M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.227	1.226	-0.001
1E+12	45	1.227	1.226	-0.001
1E+12	46	1.226	1.225	-0.001
1E+12	54	1.226	1.225	-0.001
5E+12	57	1.226	1.221	-0.005
5E+12	58	1.226	1.222	-0.004
5E+12	60	1.226	1.222	-0.004
1E+13	62	1.226	1.217	-0.009
1E+13	65	1.227	1.218	-0.009
1E+13	66	1.226	1.218	-0.008
	Max	1.227	1.226	-0.001
	Average	1.226	1.222	-0.004
	Min	1.226	1.217	-0.009
	Std Dev	0.000	0.003	0.003



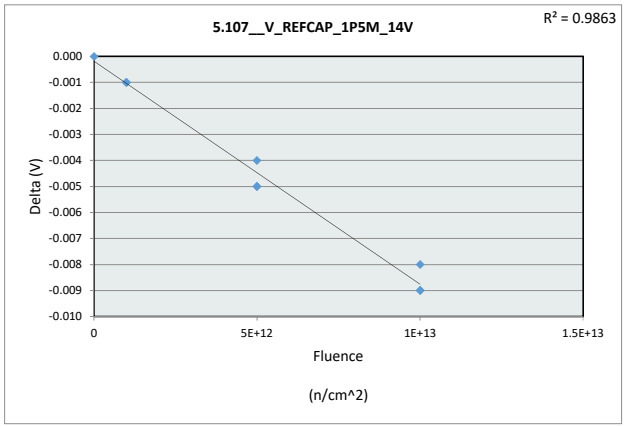
	5.104__V_REFCAP_1P5M_4V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.226	1.225	1.221	1.217
Average	1.226	1.225	1.222	1.218
Max	1.226	1.226	1.222	1.218
UL	1.237	1.237	1.237	1.237



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

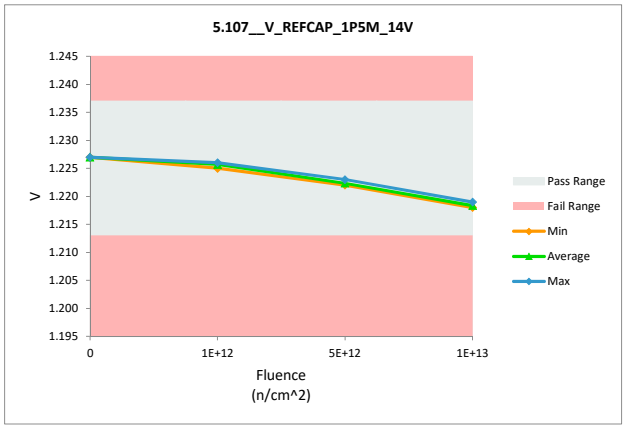
	5.107__V_REFCAP_1P5M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.227	1.227	0.000
1E+12	45	1.227	1.226	-0.001
1E+12	46	1.227	1.226	-0.001
1E+12	54	1.226	1.225	-0.001
5E+12	57	1.227	1.222	-0.005
5E+12	58	1.227	1.223	-0.004
5E+12	60	1.227	1.222	-0.005
1E+13	62	1.227	1.218	-0.009
1E+13	65	1.227	1.219	-0.008
1E+13	66	1.227	1.218	-0.009
	Max	1.227	1.227	0.000
	Average	1.227	1.223	-0.004
	Min	1.226	1.218	-0.009
	Std Dev	0.000	0.003	0.003



	5.107__V_REFCAP_1P5M_14V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		

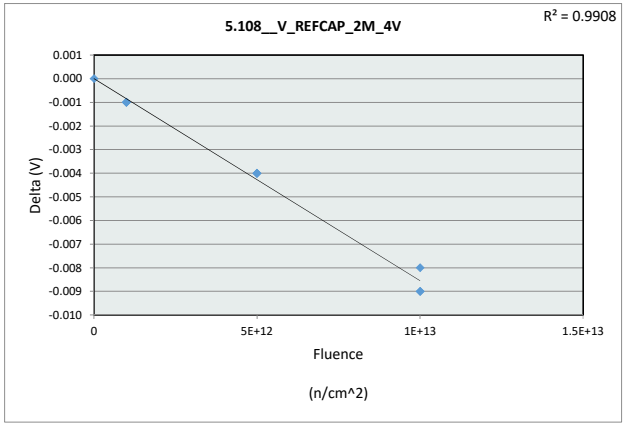
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.227	1.225	1.222	1.218
Average	1.227	1.226	1.222	1.218
Max	1.227	1.226	1.223	1.219
UL	1.237	1.237	1.237	1.237



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

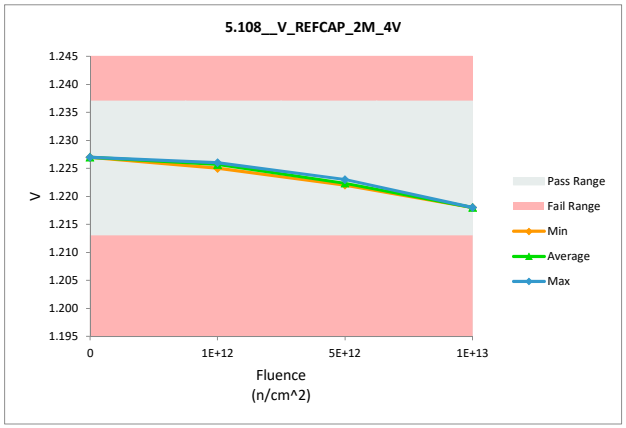
	5.108__V_REFCAP_2M_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.227	1.227	0.000
1E+12	45	1.227	1.226	-0.001
1E+12	46	1.227	1.226	-0.001
1E+12	54	1.226	1.225	-0.001
5E+12	57	1.226	1.222	-0.004
5E+12	58	1.227	1.223	-0.004
5E+12	60	1.226	1.222	-0.004
1E+13	62	1.227	1.218	-0.009
1E+13	65	1.227	1.218	-0.009
1E+13	66	1.226	1.218	-0.008
	Max	1.227	1.227	0.000
	Average	1.227	1.223	-0.004
	Min	1.226	1.218	-0.009
	Std Dev	0.001	0.004	0.003



	5.108__V_REFCAP_2M_4V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		

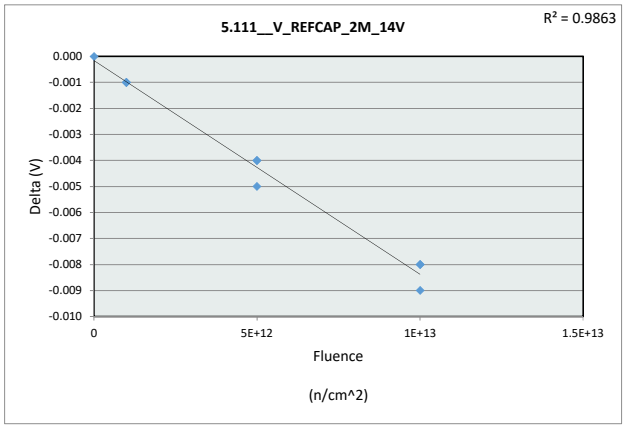
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.227	1.225	1.222	1.218
Average	1.227	1.226	1.222	1.218
Max	1.227	1.226	1.223	1.218
UL	1.237	1.237	1.237	1.237



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

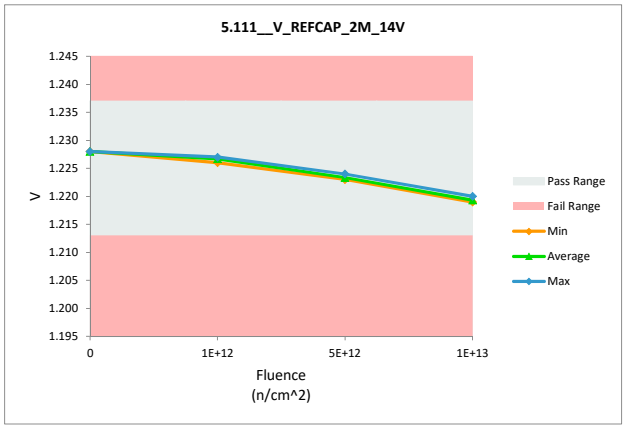
	5.111__V_REFCAP_2M_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.237	1.237
Min Limit	1.213	1.213

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.228	1.228	0.000
1E+12	45	1.228	1.227	-0.001
1E+12	46	1.228	1.227	-0.001
1E+12	54	1.227	1.226	-0.001
5E+12	57	1.228	1.223	-0.005
5E+12	58	1.228	1.224	-0.004
5E+12	60	1.227	1.223	-0.004
1E+13	62	1.228	1.219	-0.009
1E+13	65	1.228	1.220	-0.008
1E+13	66	1.227	1.219	-0.008
	Max	1.228	1.228	0.000
	Average	1.228	1.224	-0.004
	Min	1.227	1.219	-0.009
	Std Dev	0.000	0.003	0.003



	5.111__V_REFCAP_2M_14V			
Test Site				
Tester				
Test Number				
Max Limit	1.237	V		
Min Limit	1.213	V		

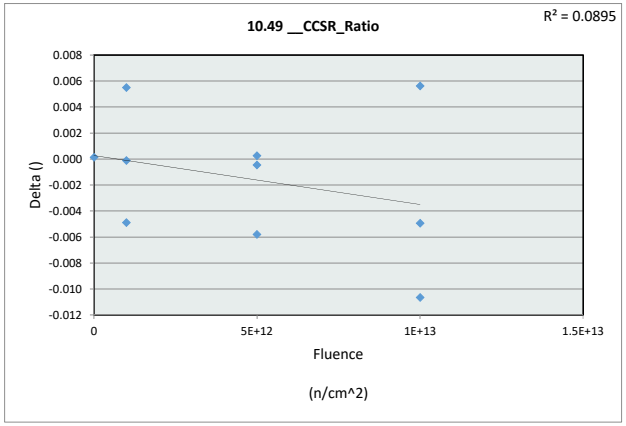
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	1.213	1.213	1.213	1.213
Min	1.228	1.226	1.223	1.219
Average	1.228	1.227	1.223	1.219
Max	1.228	1.227	1.224	1.220
UL	1.237	1.237	1.237	1.237



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

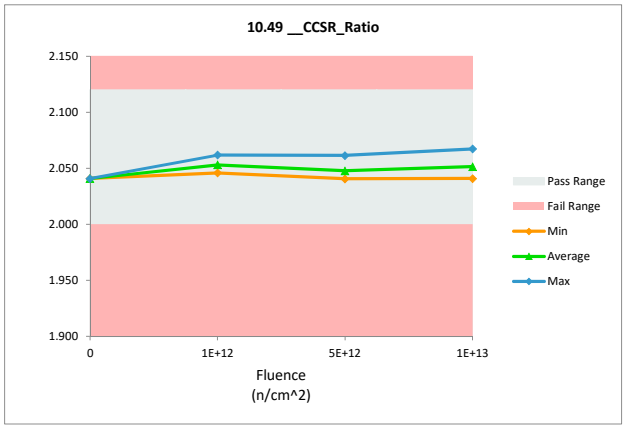
	10.49 __CCSR_Ratio	
Test Site		
Tester		
Test Number		
Unit		
Max Limit	2.12	2.12
Min Limit	2	2

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	2.041	2.041	0.000
1E+12	45	2.067	2.062	-0.005
1E+12	46	2.046	2.051	0.006
1E+12	54	2.046	2.046	0.000
5E+12	57	2.041	2.041	0.000
5E+12	58	2.067	2.061	-0.006
5E+12	60	2.041	2.041	0.000
1E+13	62	2.051	2.046	-0.005
1E+13	65	2.052	2.041	-0.011
1E+13	66	2.062	2.067	0.006
	Max	2.067	2.067	0.006
	Average	2.051	2.050	-0.002
	Min	2.041	2.041	-0.011
	Std Dev	0.010	0.010	0.005



	10.49 __CCSR_Ratio
Test Site	
Tester	
Test Number	
Max Limit	2.12
Min Limit	2

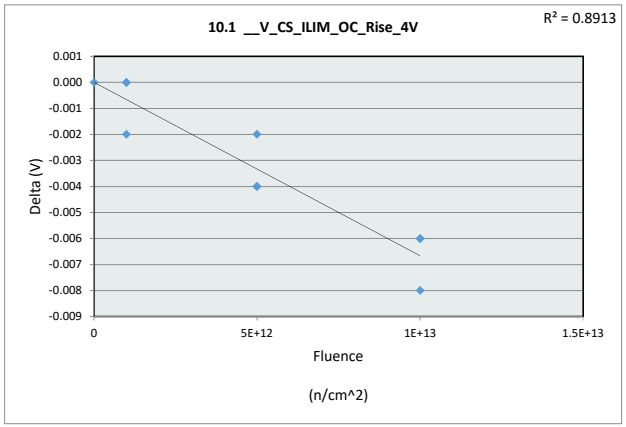
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	2.000	2.000	2.000	2.000
Min	2.041	2.046	2.041	2.041
Average	2.041	2.053	2.048	2.051
Max	2.041	2.062	2.061	2.067
UL	2.120	2.120	2.120	2.120



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

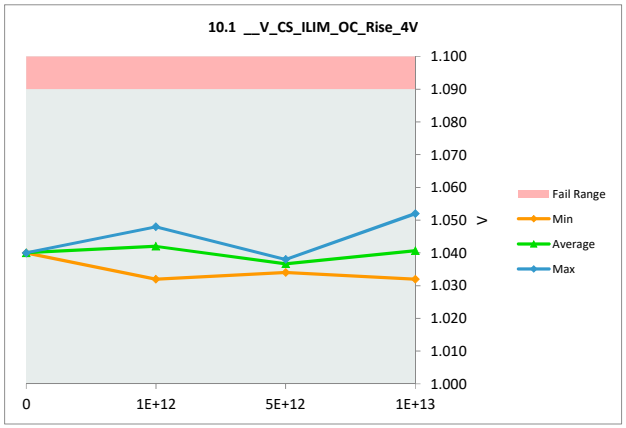
	10.1 __V_CS_ILIM_OC_Rise_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.09	1.09
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.040	1.040	0.000
1E+12	45	1.032	1.032	0.000
1E+12	46	1.048	1.046	-0.002
1E+12	54	1.048	1.048	0.000
5E+12	57	1.038	1.034	-0.004
5E+12	58	1.040	1.038	-0.002
5E+12	60	1.042	1.038	-0.004
1E+13	62	1.058	1.052	-0.006
1E+13	65	1.040	1.032	-0.008
1E+13	66	1.044	1.038	-0.006
	Max	1.058	1.052	0.000
	Average	1.043	1.040	-0.003
	Min	1.032	1.032	-0.008
	Std Dev	0.007	0.007	0.003



	10.1 __V_CS_ILIM_OC_Rise_4	
Test Site		
Tester		
Test Number		
Max Limit	1.09	V
Min Limit		V

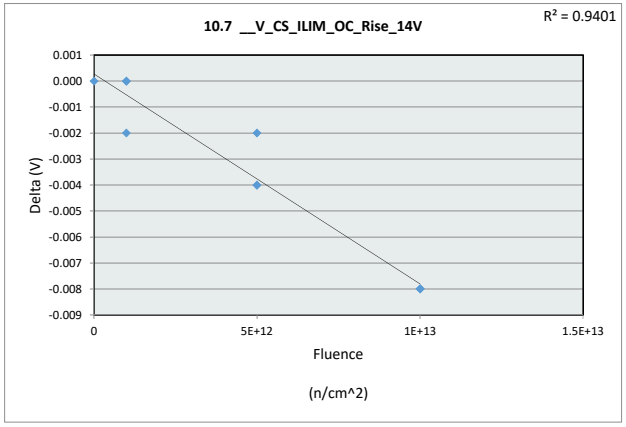
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	1.040	1.032	1.034	1.032
Average	1.040	1.042	1.037	1.041
Max	1.040	1.048	1.038	1.052
UL	1.090	1.090	1.090	1.090



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

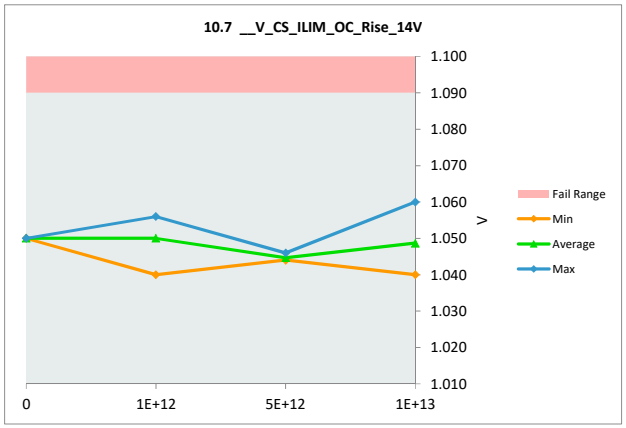
	10.7 __V_CS_ILIM_OC_Rise_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	1.09	1.09
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	1.050	1.050	0.000
1E+12	45	1.040	1.040	0.000
1E+12	46	1.056	1.056	0.000
1E+12	54	1.056	1.054	-0.002
5E+12	57	1.048	1.044	-0.004
5E+12	58	1.046	1.044	-0.002
5E+12	60	1.050	1.046	-0.004
1E+13	62	1.068	1.060	-0.008
1E+13	65	1.048	1.040	-0.008
1E+13	66	1.054	1.046	-0.008
	Max	1.068	1.060	0.000
	Average	1.052	1.048	-0.004
	Min	1.040	1.040	-0.008
	Std Dev	0.008	0.007	0.003



	10.7 __V_CS_ILIM_OC_Rise_			
Test Site				
Tester				
Test Number				
Max Limit	1.09	V		
Min Limit		V		

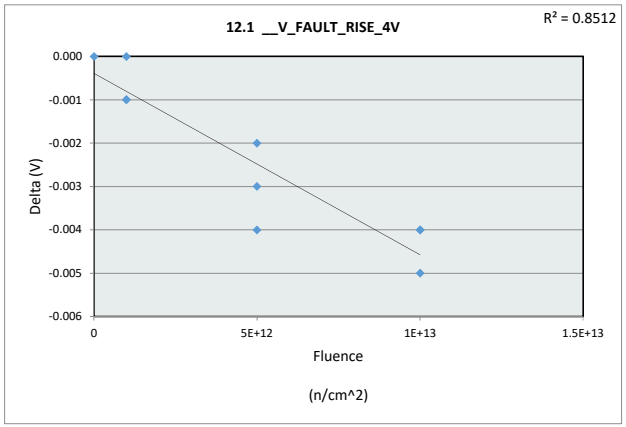
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	1.050	1.040	1.044	1.040
Average	1.050	1.050	1.045	1.049
Max	1.050	1.056	1.046	1.060
UL	1.090	1.090	1.090	1.090



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

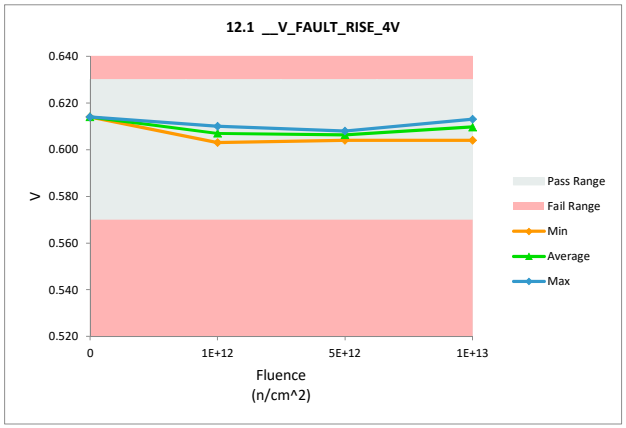
	12.1 __V_FAULT_RISE_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.614	0.614	0.000
1E+12	45	0.609	0.608	-0.001
1E+12	46	0.603	0.603	0.000
1E+12	54	0.611	0.610	-0.001
5E+12	57	0.607	0.604	-0.003
5E+12	58	0.611	0.607	-0.004
5E+12	60	0.610	0.608	-0.002
1E+13	62	0.618	0.613	-0.005
1E+13	65	0.608	0.604	-0.004
1E+13	66	0.616	0.612	-0.004
	Max	0.618	0.614	0.000
	Average	0.611	0.608	-0.002
	Min	0.603	0.603	-0.005
	Std Dev	0.004	0.004	0.002



	12.1 __V_FAULT_RISE_4V			
Test Site				
Tester				
Test Number				
Max Limit	0.63	V		
Min Limit	0.57	V		

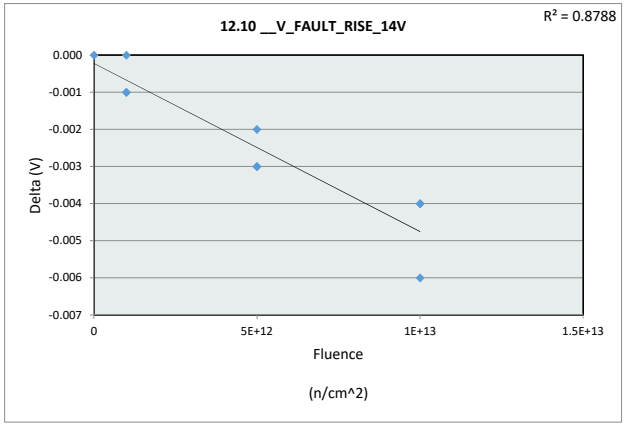
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.570	0.570	0.570	0.570
Min	0.614	0.603	0.604	0.604
Average	0.614	0.607	0.606	0.610
Max	0.614	0.610	0.608	0.613
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

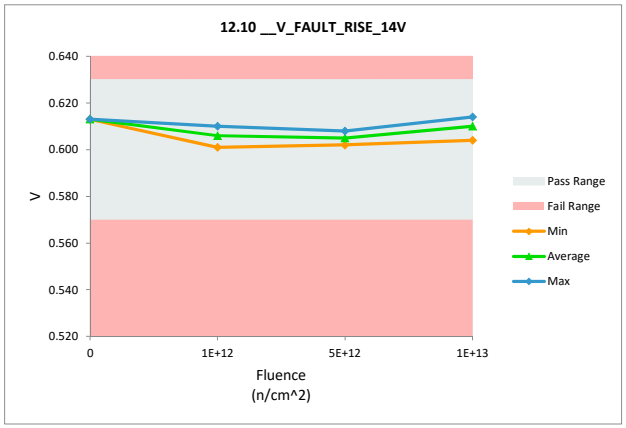
	12.10 __V_FAULT_RISE_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.63	0.63
Min Limit	0.57	0.57

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.613	0.613	0.000
1E+12	45	0.608	0.607	-0.001
1E+12	46	0.601	0.601	0.000
1E+12	54	0.611	0.610	-0.001
5E+12	57	0.605	0.602	-0.003
5E+12	58	0.608	0.605	-0.003
5E+12	60	0.610	0.608	-0.002
1E+13	62	0.620	0.614	-0.006
1E+13	65	0.608	0.604	-0.004
1E+13	66	0.616	0.612	-0.004
	Max	0.620	0.614	0.000
	Average	0.610	0.608	-0.002
	Min	0.601	0.601	-0.006
	Std Dev	0.005	0.005	0.002



	12.10 __V_FAULT_RISE_14V			
Test Site				
Tester				
Test Number				
Max Limit	0.63	V		
Min Limit	0.57	V		

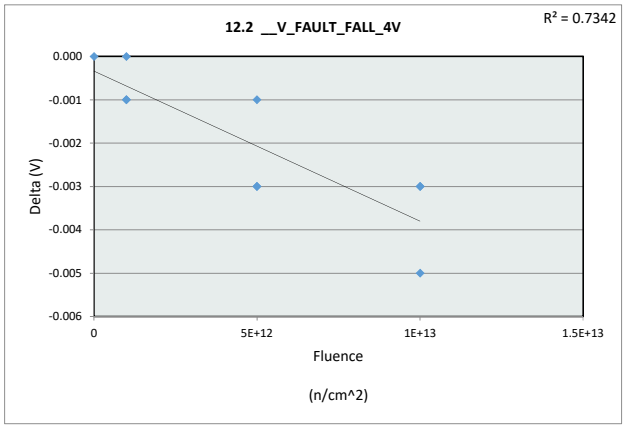
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.570	0.570	0.570	0.570
Min	0.613	0.601	0.602	0.604
Average	0.613	0.606	0.605	0.610
Max	0.613	0.610	0.608	0.614
UL	0.630	0.630	0.630	0.630



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

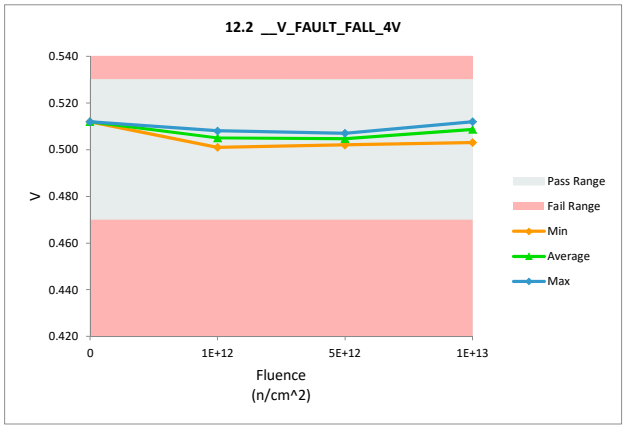
	12.2 __V_FAULT_FALL_4V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.512	0.512	0.000
1E+12	45	0.506	0.506	0.000
1E+12	46	0.502	0.501	-0.001
1E+12	54	0.509	0.508	-0.001
5E+12	57	0.505	0.502	-0.003
5E+12	58	0.508	0.505	-0.003
5E+12	60	0.508	0.507	-0.001
1E+13	62	0.517	0.512	-0.005
1E+13	65	0.506	0.503	-0.003
1E+13	66	0.514	0.511	-0.003
	Max	0.517	0.512	0.000
	Average	0.509	0.507	-0.002
	Min	0.502	0.501	-0.005
	Std Dev	0.004	0.004	0.002



	12.2 __V_FAULT_FALL_4V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.47	V

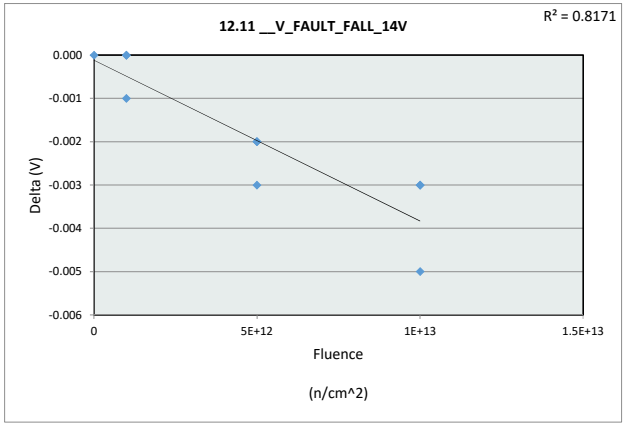
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.470	0.470	0.470	0.470
Min	0.512	0.501	0.502	0.503
Average	0.512	0.505	0.505	0.509
Max	0.512	0.508	0.507	0.512
UL	0.530	0.530	0.530	0.530



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

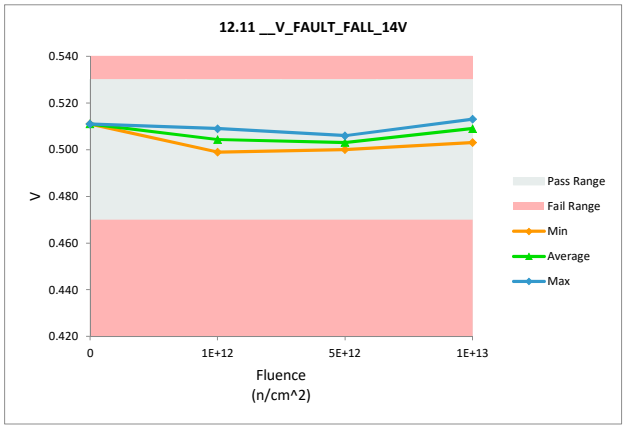
	12.11 __V_FAULT_FALL_14V	
Test Site		
Tester		
Test Number		
Unit	V	V
Max Limit	0.53	0.53
Min Limit	0.47	0.47

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.511	0.511	0.000
1E+12	45	0.506	0.505	-0.001
1E+12	46	0.499	0.499	0.000
1E+12	54	0.509	0.509	0.000
5E+12	57	0.502	0.500	-0.002
5E+12	58	0.506	0.503	-0.003
5E+12	60	0.508	0.506	-0.002
1E+13	62	0.518	0.513	-0.005
1E+13	65	0.506	0.503	-0.003
1E+13	66	0.514	0.511	-0.003
	Max	0.518	0.513	0.000
	Average	0.508	0.506	-0.002
	Min	0.499	0.499	-0.005
	Std Dev	0.006	0.005	0.002



	12.11 __V_FAULT_FALL_14V	
Test Site		
Tester		
Test Number		
Max Limit	0.53	V
Min Limit	0.47	V

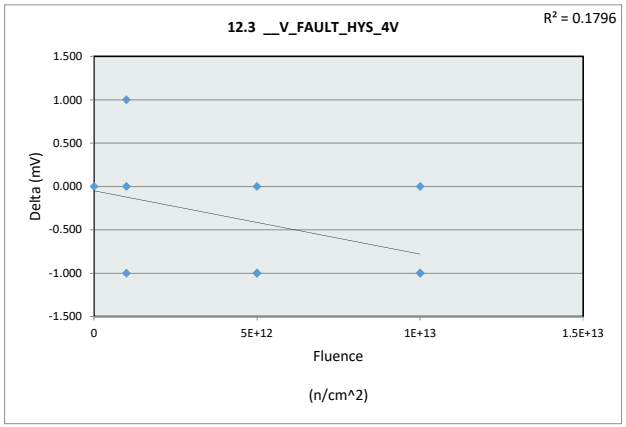
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.470	0.470	0.470	0.470
Min	0.511	0.499	0.500	0.503
Average	0.511	0.504	0.503	0.509
Max	0.511	0.509	0.506	0.513
UL	0.530	0.530	0.530	0.530



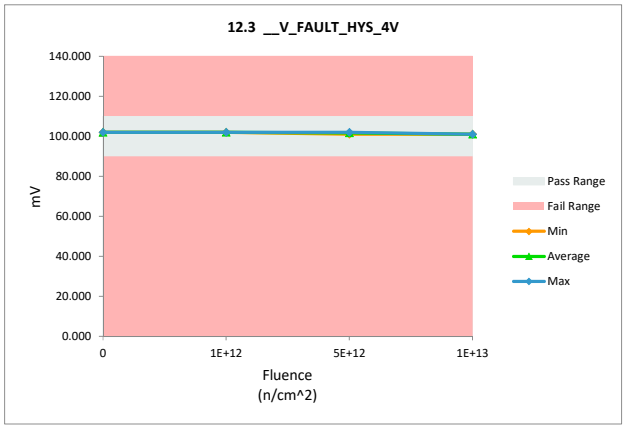
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	12.3 __V_FAULT_HYS_4V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	110	110
Min Limit	90	90

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	102.000	102.000	0.000
1E+12	45	103.000	102.000	-1.000
1E+12	46	101.000	102.000	1.000
1E+12	54	102.000	102.000	0.000
5E+12	57	102.000	102.000	0.000
5E+12	58	103.000	102.000	-1.000
5E+12	60	102.000	101.000	-1.000
1E+13	62	101.000	101.000	0.000
1E+13	65	102.000	101.000	-1.000
1E+13	66	102.000	101.000	-1.000
	Max	103.000	102.000	1.000
	Average	102.000	101.600	-0.400
	Min	101.000	101.000	-1.000
	Std Dev	0.667	0.516	0.699



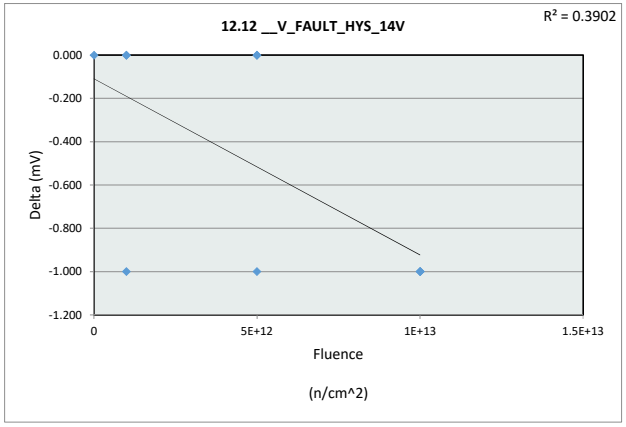
	12.3 __V_FAULT_HYS_4V			
Test Site				
Tester				
Test Number				
Max Limit	110	mV		
Min Limit	90	mV		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	90.000	90.000	90.000	90.000
Min	102.000	102.000	101.000	101.000
Average	102.000	102.000	101.667	101.000
Max	102.000	102.000	102.000	101.000
UL	110.000	110.000	110.000	110.000



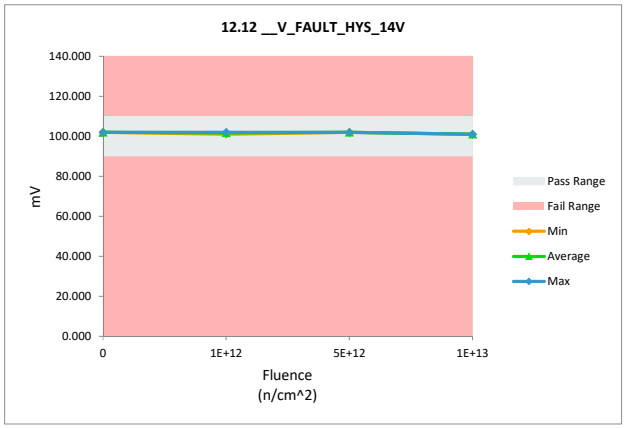
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	12.12 __V_FAULT_HYS_14V	
Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	110	110
Min Limit	90	90

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	102.000	102.000	0.000
1E+12	45	102.000	102.000	0.000
1E+12	46	102.000	102.000	0.000
1E+12	54	102.000	101.000	-1.000
5E+12	57	103.000	102.000	-1.000
5E+12	58	102.000	102.000	0.000
5E+12	60	102.000	102.000	0.000
1E+13	62	102.000	101.000	-1.000
1E+13	65	102.000	101.000	-1.000
1E+13	66	102.000	101.000	-1.000
	Max	103.000	102.000	0.000
	Average	102.100	101.600	-0.500
	Min	102.000	101.000	-1.000
	Std Dev	0.316	0.516	0.527



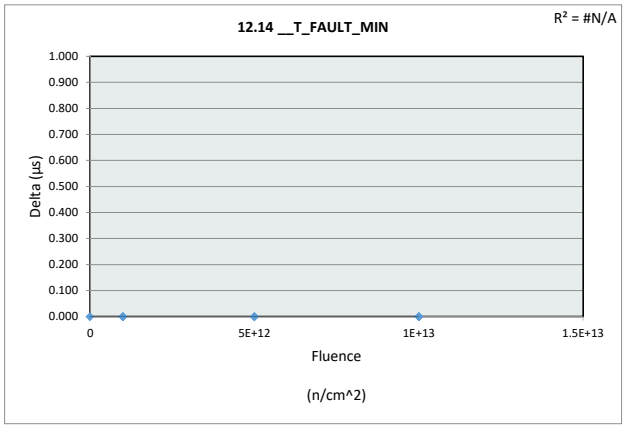
	12.12 __V_FAULT_HYS_14V			
Test Site				
Tester				
Test Number				
Max Limit	110	mV		
Min Limit	90	mV		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	90.000	90.000	90.000	90.000
Min	102.000	101.000	102.000	101.000
Average	102.000	101.667	102.000	101.000
Max	102.000	102.000	102.000	101.000
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

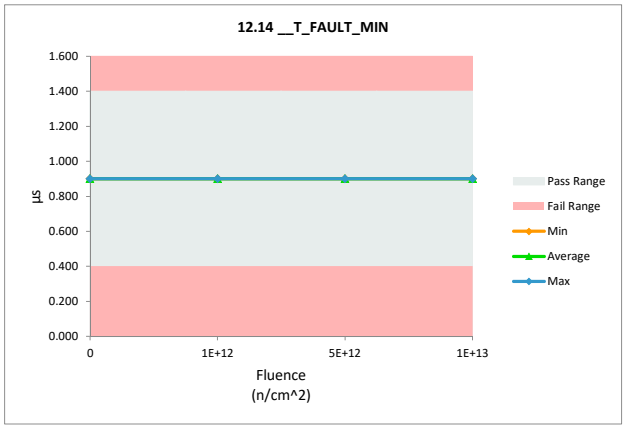
	12.14 __T_FAULT_MIN	
Test Site		
Tester		
Test Number		
Unit	µs	µs
Max Limit	1.4	1.4
Min Limit	0.4	0.4

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	0.900	0.900	0.000
1E+12	45	0.900	0.900	0.000
1E+12	46	0.900	0.900	0.000
1E+12	54	0.900	0.900	0.000
5E+12	57	0.900	0.900	0.000
5E+12	58	0.900	0.900	0.000
5E+12	60	0.900	0.900	0.000
1E+13	62	0.900	0.900	0.000
1E+13	65	0.900	0.900	0.000
1E+13	66	0.900	0.900	0.000
	Max	0.900	0.900	0.000
	Average	0.900	0.900	0.000
	Min	0.900	0.900	0.000
	Std Dev	0.000	0.000	0.000



	12.14 __T_FAULT_MIN	
Test Site		
Tester		
Test Number		
Max Limit	1.4	µs
Min Limit	0.4	µs

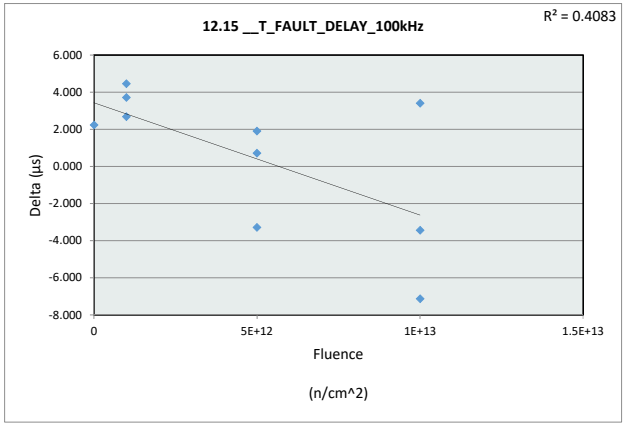
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	0.400	0.400	0.400	0.400
Min	0.900	0.900	0.900	0.900
Average	0.900	0.900	0.900	0.900
Max	0.900	0.900	0.900	0.900
UL	1.400	1.400	1.400	1.400



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

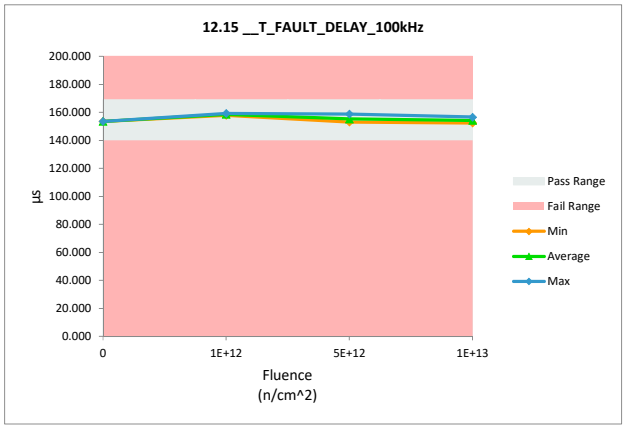
	12.15 __T_FAULT_DELAY_100kHz	
Test Site		
Tester		
Test Number		
Unit	µs	µs
Max Limit	169	169
Min Limit	140	140

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	151.164	153.390	2.226
1E+12	45	156.456	159.139	2.683
1E+12	46	154.731	158.443	3.712
1E+12	54	153.340	157.790	4.450
5E+12	57	156.218	152.932	-3.286
5E+12	58	151.957	153.865	1.908
5E+12	60	158.017	158.739	0.722
1E+13	62	157.081	153.647	-3.434
1E+13	65	159.424	152.293	-7.131
1E+13	66	153.111	156.518	3.407
	Max	159.424	159.139	4.450
	Average	155.150	155.676	0.526
	Min	151.164	152.293	-7.131
	Std Dev	2.723	2.704	3.832



	12.15 __T_FAULT_DELAY_100	
Test Site		
Tester		
Test Number		
Max Limit	169	µs
Min Limit	140	µs

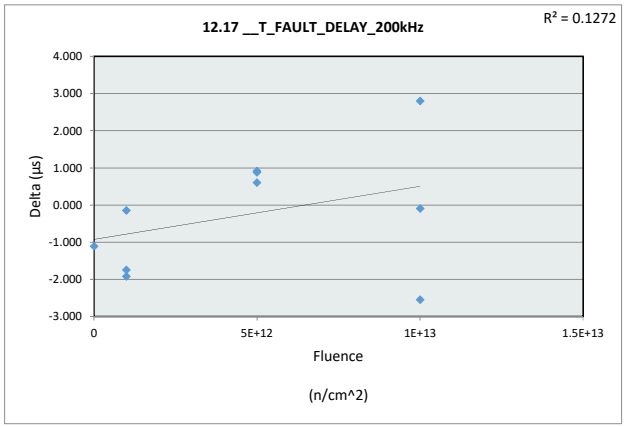
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	140.000	140.000	140.000	140.000
Min	153.390	157.790	152.932	152.293
Average	153.390	158.457	155.179	154.153
Max	153.390	159.139	158.739	156.518
UL	169.000	169.000	169.000	169.000



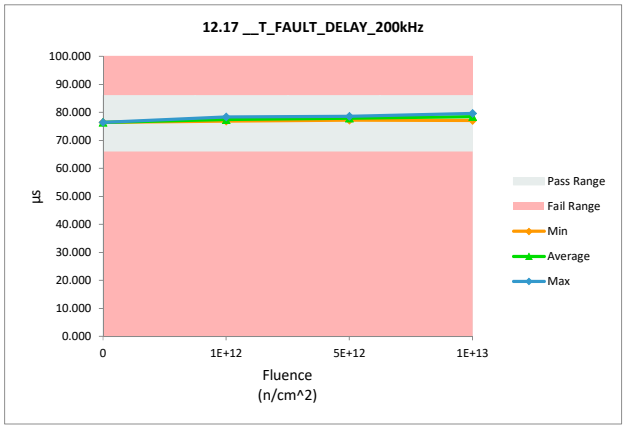
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	12.17 __T_FAULT_DELAY_200kHz	
Test Site		
Tester		
Test Number		
Unit	µs	µs
Max Limit	86	86
Min Limit	66	66

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	77.568	76.456	-1.112
1E+12	45	78.598	76.855	-1.743
1E+12	46	80.237	78.323	-1.914
1E+12	54	76.950	76.809	-0.141
5E+12	57	77.224	77.831	0.607
5E+12	58	77.669	78.546	0.877
5E+12	60	76.318	77.230	0.912
1E+13	62	75.799	78.599	2.800
1E+13	65	79.678	79.588	-0.090
1E+13	66	79.624	77.077	-2.547
	Max	80.237	79.588	2.800
	Average	77.967	77.731	-0.235
	Min	75.799	76.456	-2.547
	Std Dev	1.508	1.008	1.623



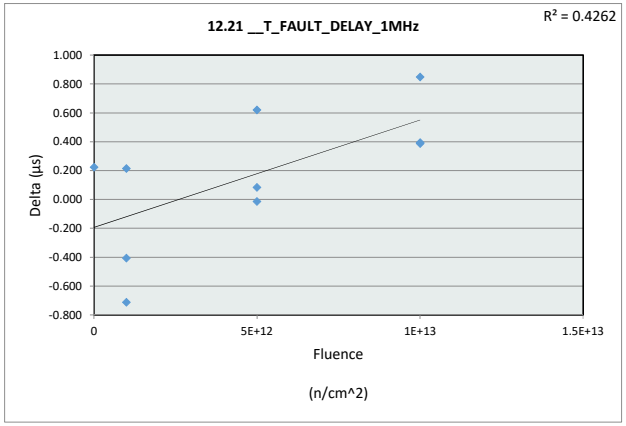
	12.17 __T_FAULT_DELAY_200			
Test Site				
Tester				
Test Number				
Max Limit	86	µs		
Min Limit	66	µs		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	66.000	66.000	66.000	66.000
Min	76.456	76.809	77.230	77.077
Average	76.456	77.329	77.869	78.421
Max	76.456	78.323	78.546	79.588
UL	86.000	86.000	86.000	86.000



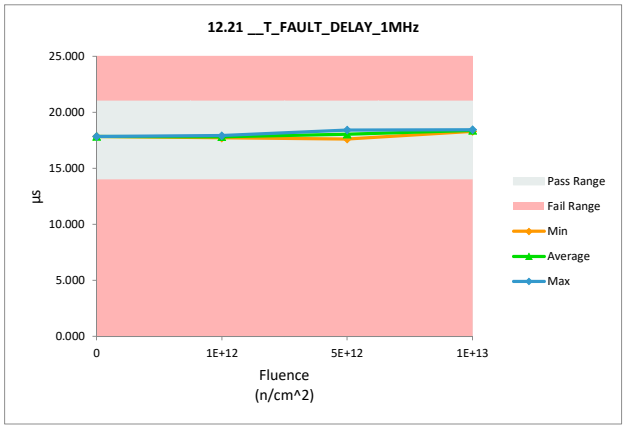
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	12.21 __T_FAULT_DELAY_1MHz	
Test Site		
Tester		
Test Number		
Unit	µs	µs
Max Limit	21	21
Min Limit	14	14

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	17.615	17.838	0.223
1E+12	45	17.649	17.863	0.214
1E+12	46	18.319	17.913	-0.406
1E+12	54	18.426	17.713	-0.713
5E+12	57	17.482	18.101	0.619
5E+12	58	17.616	17.603	-0.013
5E+12	60	18.328	18.411	0.083
1E+13	62	17.568	18.416	0.848
1E+13	65	17.924	18.311	0.387
1E+13	66	18.044	18.438	0.394
	Max	18.426	18.438	0.848
	Average	17.897	18.061	0.164
	Min	17.482	17.603	-0.713
	Std Dev	0.360	0.316	0.461



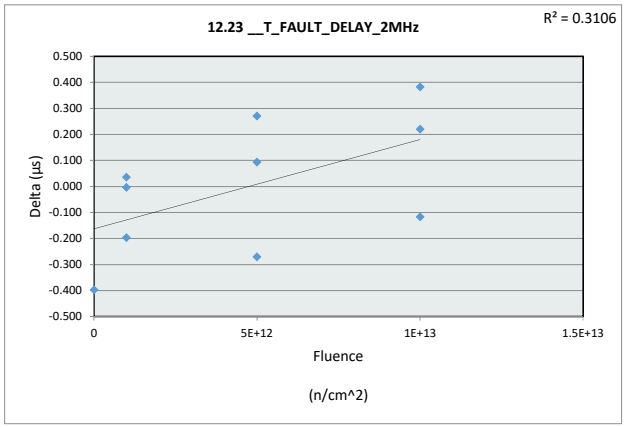
	12.21 __T_FAULT_DELAY_1MH			
Test Site				
Tester				
Test Number				
Max Limit	21	µs		
Min Limit	14	µs		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	14.000	14.000	14.000	14.000
Min	17.838	17.713	17.603	18.311
Average	17.838	17.830	18.038	18.388
Max	17.838	17.913	18.411	18.438
UL	21.000	21.000	21.000	21.000



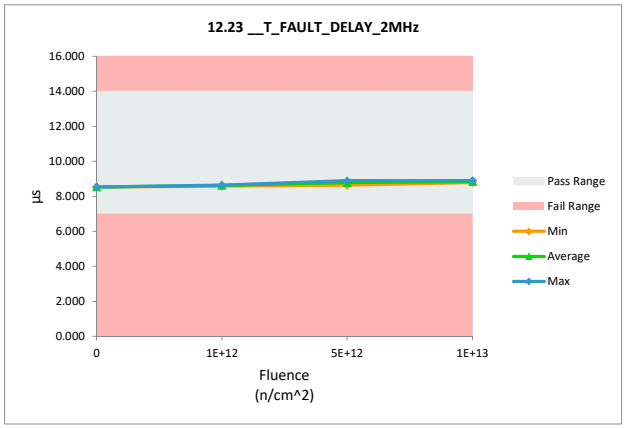
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	12.23 __T_FAULT_DELAY_2MHz	
Test Site		
Tester		
Test Number		
Unit	µs	µs
Max Limit	14	14
Min Limit	7	7

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.921	8.524	-0.397
1E+12	45	8.597	8.633	0.036
1E+12	46	8.645	8.641	-0.004
1E+12	54	8.774	8.578	-0.196
5E+12	57	8.616	8.887	0.271
5E+12	58	8.901	8.630	-0.271
5E+12	60	8.754	8.848	0.094
1E+13	62	8.973	8.856	-0.117
1E+13	65	8.517	8.900	0.383
1E+13	66	8.560	8.780	0.220
	Max	8.973	8.900	0.383
	Average	8.726	8.728	0.002
	Min	8.517	8.524	-0.397
	Std Dev	0.163	0.141	0.250



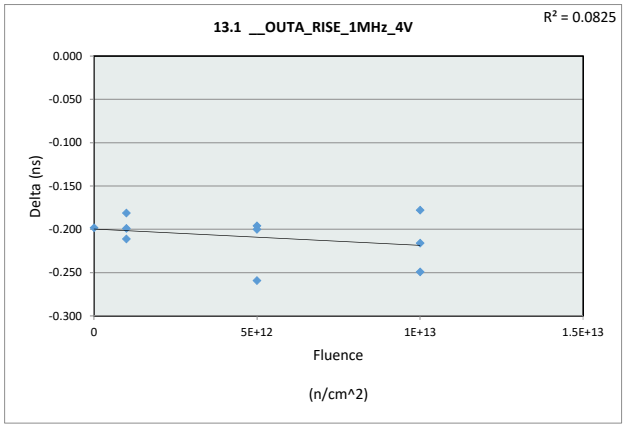
	12.23 __T_FAULT_DELAY_2MH			
Test Site				
Tester				
Test Number				
Max Limit	14	µs		
Min Limit	7	µs		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	7.000	7.000	7.000	7.000
Min	8.524	8.578	8.630	8.780
Average	8.524	8.617	8.788	8.845
Max	8.524	8.641	8.887	8.900
UL	14.000	14.000	14.000	14.000



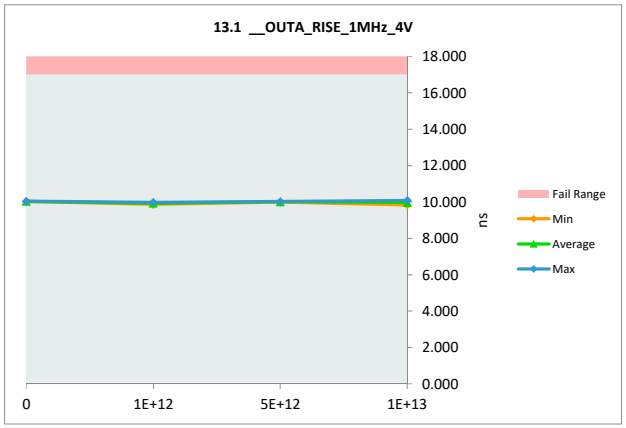
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.1 __OUTA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	10.230	10.032	-0.198
1E+12	45	10.181	9.982	-0.199
1E+12	46	10.105	9.924	-0.181
1E+12	54	10.072	9.861	-0.211
5E+12	57	10.191	9.991	-0.200
5E+12	58	10.276	10.017	-0.259
5E+12	60	10.179	9.983	-0.196
1E+13	62	10.146	9.968	-0.178
1E+13	65	10.297	10.081	-0.216
1E+13	66	10.085	9.836	-0.249
	Max	10.297	10.081	-0.178
	Average	10.176	9.968	-0.209
	Min	10.072	9.836	-0.259
	Std Dev	0.077	0.075	0.027



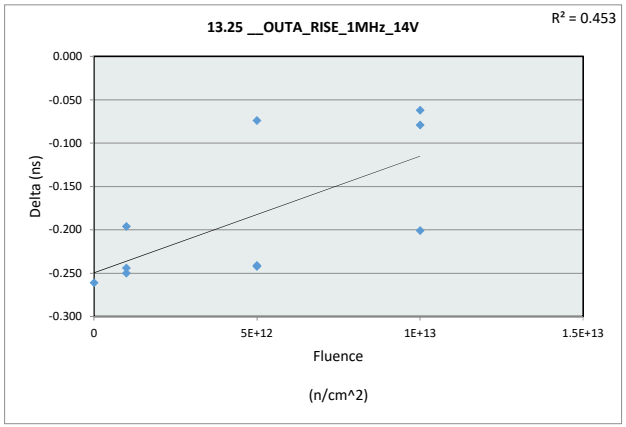
	13.1 __OUTA_RISE_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	10.032	9.861	9.983	9.836
Average	10.032	9.922	9.997	9.962
Max	10.032	9.982	10.017	10.081
UL	17.000	17.000	17.000	17.000



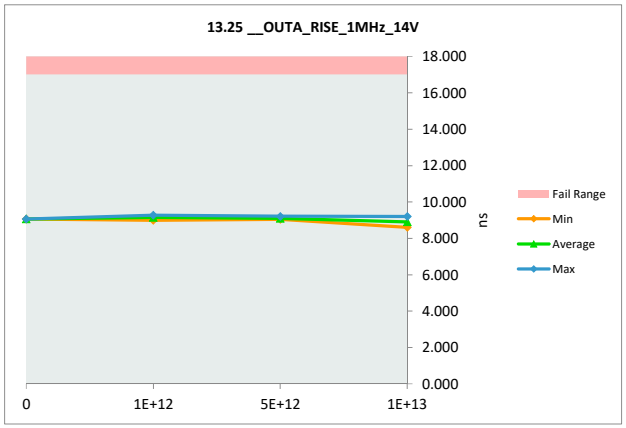
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.25 __OUTA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.322	9.061	-0.261
1E+12	45	9.448	9.198	-0.250
1E+12	46	9.235	8.991	-0.244
1E+12	54	9.473	9.277	-0.196
5E+12	57	9.449	9.207	-0.242
5E+12	58	9.116	9.042	-0.074
5E+12	60	9.288	9.047	-0.241
1E+13	62	9.282	9.203	-0.079
1E+13	65	9.107	8.906	-0.201
1E+13	66	8.666	8.604	-0.062
	Max	9.473	9.277	-0.062
	Average	9.239	9.054	-0.185
	Min	8.666	8.604	-0.261
	Std Dev	0.239	0.196	0.081



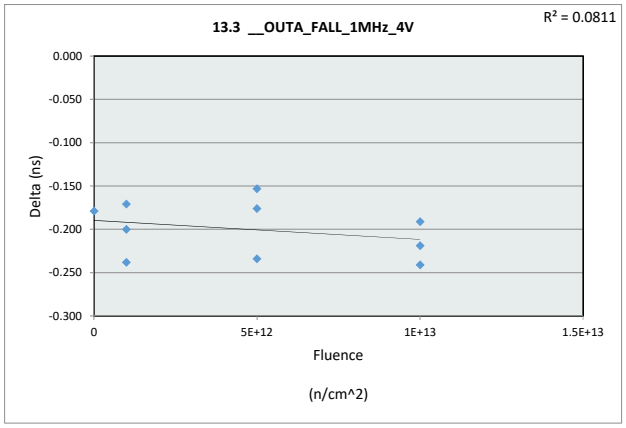
	13.25 __OUTA_RISE_1MHz_14			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.061	8.991	9.042	8.604
Average	9.061	9.155	9.099	8.904
Max	9.061	9.277	9.207	9.203
UL	17.000	17.000	17.000	17.000



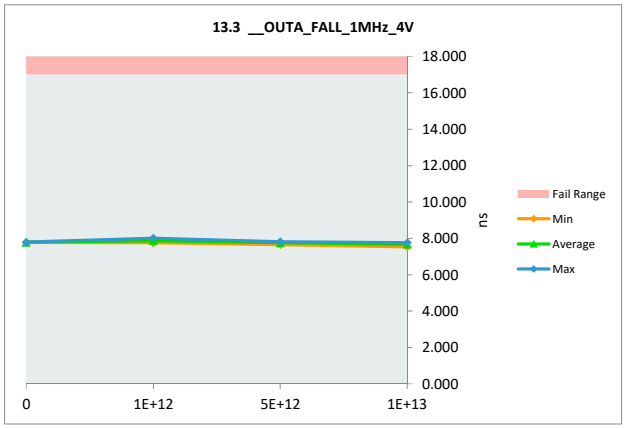
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.3 __OUTA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.966	7.787	-0.179
1E+12	45	8.250	8.012	-0.238
1E+12	46	7.924	7.753	-0.171
1E+12	54	8.020	7.820	-0.200
5E+12	57	7.883	7.649	-0.234
5E+12	58	7.937	7.784	-0.153
5E+12	60	7.985	7.809	-0.176
1E+13	62	7.935	7.744	-0.191
1E+13	65	8.011	7.770	-0.241
1E+13	66	7.746	7.527	-0.219
	Max	8.250	8.012	-0.153
	Average	7.966	7.766	-0.200
	Min	7.746	7.527	-0.241
	Std Dev	0.127	0.124	0.031



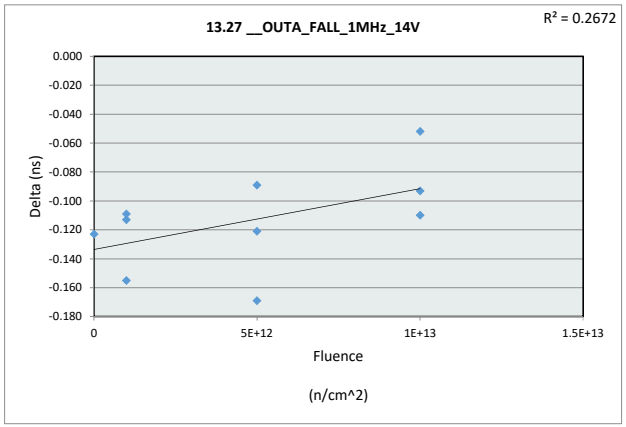
	13.3 __OUTA_FALL_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.787	7.753	7.649	7.527
Average	7.787	7.862	7.747	7.680
Max	7.787	8.012	7.809	7.770
UL	17.000	17.000	17.000	17.000



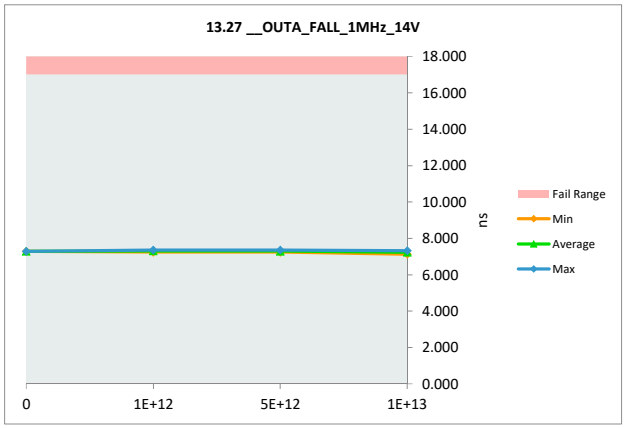
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.27 __OUTA_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.407	7.284	-0.123
1E+12	45	7.511	7.356	-0.155
1E+12	46	7.349	7.240	-0.109
1E+12	54	7.452	7.339	-0.113
5E+12	57	7.362	7.241	-0.121
5E+12	58	7.447	7.358	-0.089
5E+12	60	7.456	7.287	-0.169
1E+13	62	7.354	7.261	-0.093
1E+13	65	7.373	7.321	-0.052
1E+13	66	7.247	7.137	-0.110
	Max	7.511	7.358	-0.052
	Average	7.396	7.282	-0.113
	Min	7.247	7.137	-0.169
	Std Dev	0.075	0.067	0.033



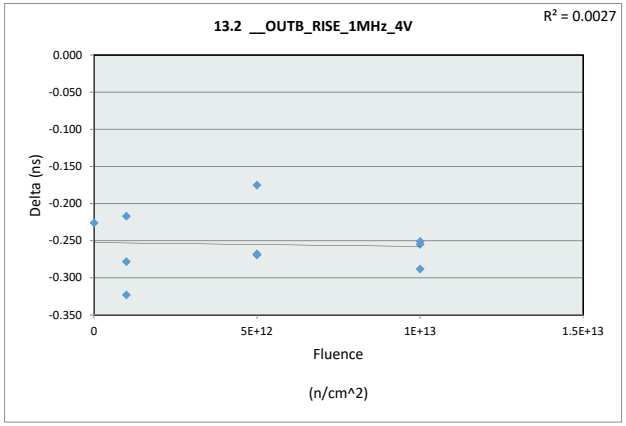
	13.27 __OUTA_FALL_1MHz_14			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.284	7.240	7.241	7.137
Average	7.284	7.312	7.295	7.240
Max	7.284	7.356	7.358	7.321
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

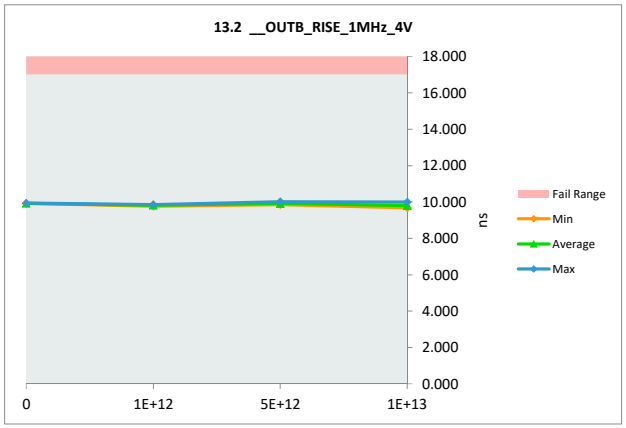
	13.2 __OUTB_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	10.159	9.933	-0.226
1E+12	45	10.107	9.829	-0.278
1E+12	46	10.082	9.759	-0.323
1E+12	54	10.068	9.851	-0.217
5E+12	57	10.184	10.009	-0.175
5E+12	58	10.147	9.879	-0.268
5E+12	60	10.121	9.852	-0.269
1E+13	62	10.025	9.737	-0.288
1E+13	65	10.241	9.990	-0.251
1E+13	66	9.929	9.674	-0.255
	Max	10.241	10.009	-0.175
	Average	10.106	9.851	-0.255
	Min	9.929	9.674	-0.323
	Std Dev	0.088	0.108	0.041



	13.2 __OUTB_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Max Limit	17	ns
Min Limit		ns

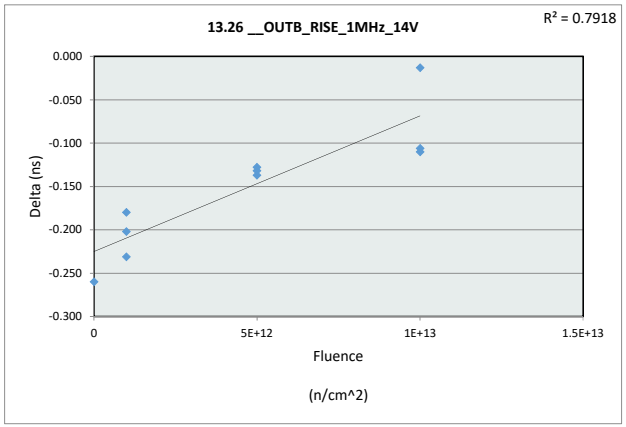
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.933	9.759	9.852	9.674
Average	9.933	9.813	9.913	9.800
Max	9.933	9.851	10.009	9.990
UL	17.000	17.000	17.000	17.000



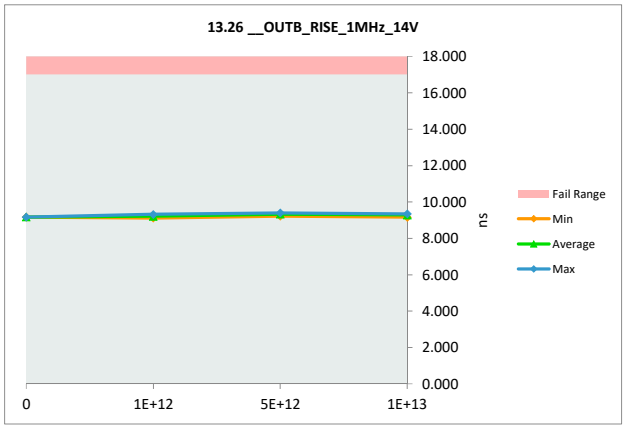
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.26 __OUTB_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.422	9.162	-0.260
1E+12	45	9.395	9.193	-0.202
1E+12	46	9.341	9.110	-0.231
1E+12	54	9.496	9.316	-0.180
5E+12	57	9.364	9.227	-0.137
5E+12	58	9.532	9.400	-0.132
5E+12	60	9.470	9.342	-0.128
1E+13	62	9.450	9.340	-0.110
1E+13	65	9.342	9.329	-0.013
1E+13	66	9.266	9.160	-0.106
	Max	9.532	9.400	-0.013
	Average	9.408	9.258	-0.150
	Min	9.266	9.110	-0.260
	Std Dev	0.082	0.099	0.071



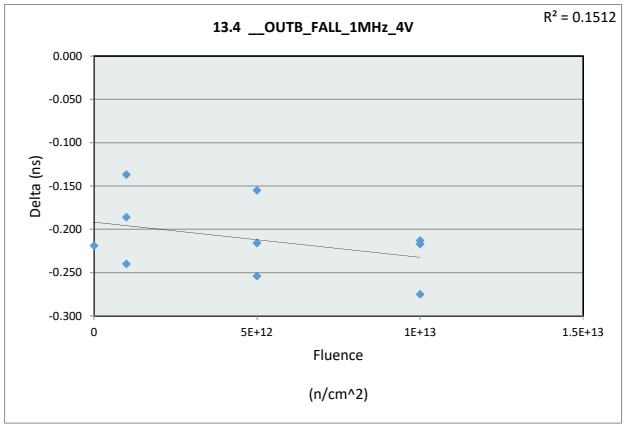
	13.26 __OUTB_RISE_1MHz_14			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.162	9.110	9.227	9.160
Average	9.162	9.206	9.323	9.276
Max	9.162	9.316	9.400	9.340
UL	17.000	17.000	17.000	17.000



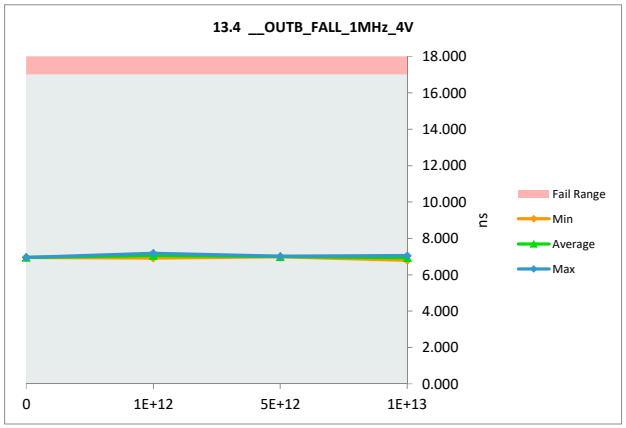
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.4 __OUTB_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.170	6.951	-0.219
1E+12	45	7.422	7.182	-0.240
1E+12	46	7.099	6.913	-0.186
1E+12	54	7.223	7.086	-0.137
5E+12	57	7.151	6.996	-0.155
5E+12	58	7.199	6.983	-0.216
5E+12	60	7.262	7.008	-0.254
1E+13	62	7.207	6.994	-0.213
1E+13	65	7.259	7.042	-0.217
1E+13	66	7.065	6.790	-0.275
	Max	7.422	7.182	-0.137
	Average	7.206	6.994	-0.211
	Min	7.065	6.790	-0.275
	Std Dev	0.099	0.104	0.042



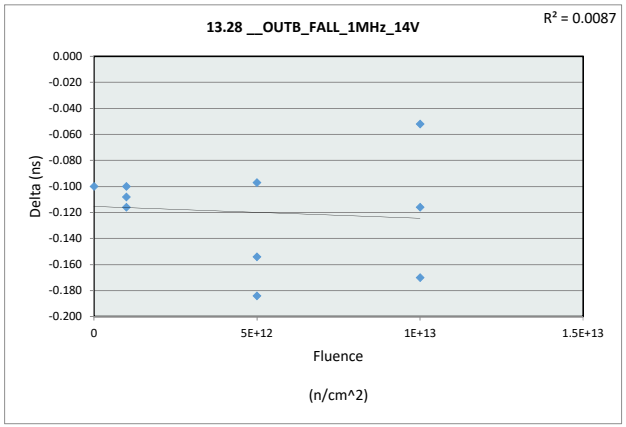
	13.4 __OUTB_FALL_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.951	6.913	6.983	6.790
Average	6.951	7.060	6.996	6.942
Max	6.951	7.182	7.008	7.042
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

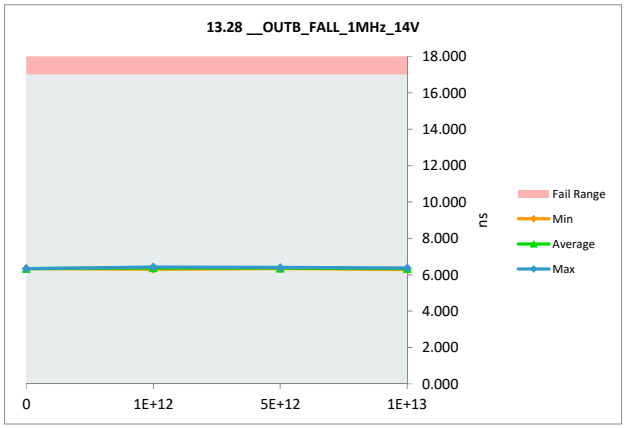
	13.28 __OUTB_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.431	6.331	-0.100
1E+12	45	6.526	6.418	-0.108
1E+12	46	6.418	6.302	-0.116
1E+12	54	6.495	6.395	-0.100
5E+12	57	6.490	6.336	-0.154
5E+12	58	6.544	6.360	-0.184
5E+12	60	6.490	6.393	-0.097
1E+13	62	6.484	6.368	-0.116
1E+13	65	6.500	6.330	-0.170
1E+13	66	6.342	6.290	-0.052
	Max	6.544	6.418	-0.052
	Average	6.472	6.352	-0.120
	Min	6.342	6.290	-0.184
	Std Dev	0.059	0.042	0.039



	13.28 __OUTB_FALL_1MHz_14			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		

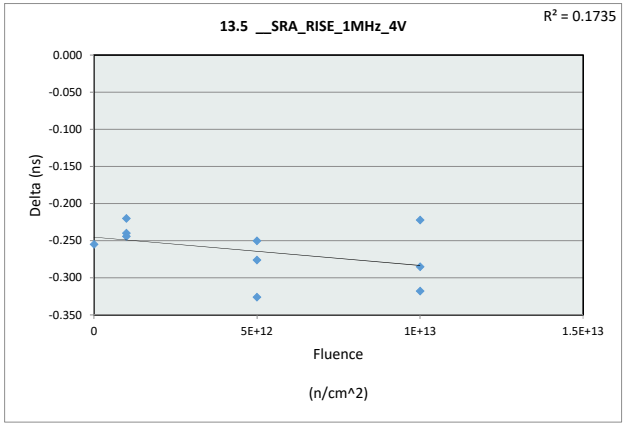
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.331	6.302	6.336	6.290
Average	6.331	6.372	6.363	6.329
Max	6.331	6.418	6.393	6.368
UL	17.000	17.000	17.000	17.000



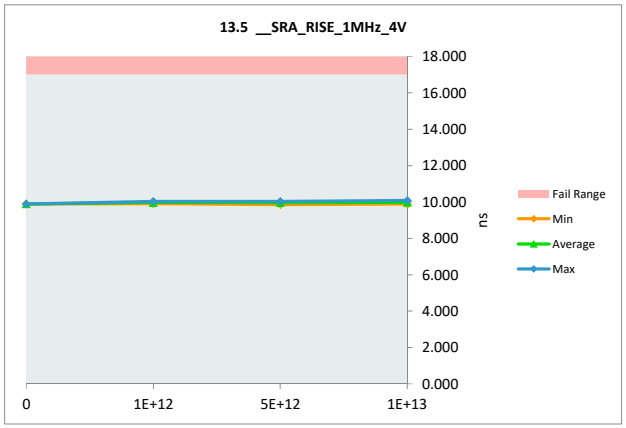
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.5 __SRA_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	10.141	9.886	-0.255
1E+12	45	10.273	10.029	-0.244
1E+12	46	10.179	9.939	-0.240
1E+12	54	10.136	9.916	-0.220
5E+12	57	10.139	9.863	-0.276
5E+12	58	10.276	10.026	-0.250
5E+12	60	10.310	9.984	-0.326
1E+13	62	10.304	9.986	-0.318
1E+13	65	10.312	10.090	-0.222
1E+13	66	10.165	9.880	-0.285
	Max	10.312	10.090	-0.220
	Average	10.223	9.960	-0.264
	Min	10.136	9.863	-0.326
	Std Dev	0.077	0.075	0.037



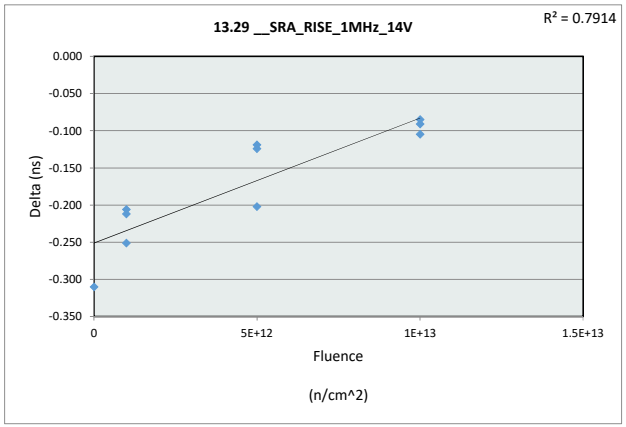
	13.5 __SRA_RISE_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.886	9.916	9.863	9.880
Average	9.886	9.961	9.958	9.985
Max	9.886	10.029	10.026	10.090
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

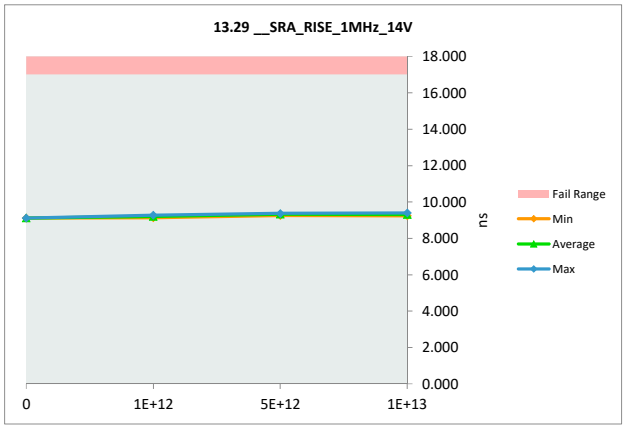
	13.29 __SRA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.435	9.125	-0.310
1E+12	45	9.448	9.197	-0.251
1E+12	46	9.343	9.131	-0.212
1E+12	54	9.479	9.273	-0.206
5E+12	57	9.386	9.262	-0.124
5E+12	58	9.538	9.336	-0.202
5E+12	60	9.488	9.369	-0.119
1E+13	62	9.511	9.406	-0.105
1E+13	65	9.360	9.269	-0.091
1E+13	66	9.324	9.239	-0.085
	Max	9.538	9.406	-0.085
	Average	9.431	9.261	-0.170
	Min	9.324	9.125	-0.310
	Std Dev	0.075	0.093	0.076



	13.29 __SRA_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Max Limit	17	ns
Min Limit		ns

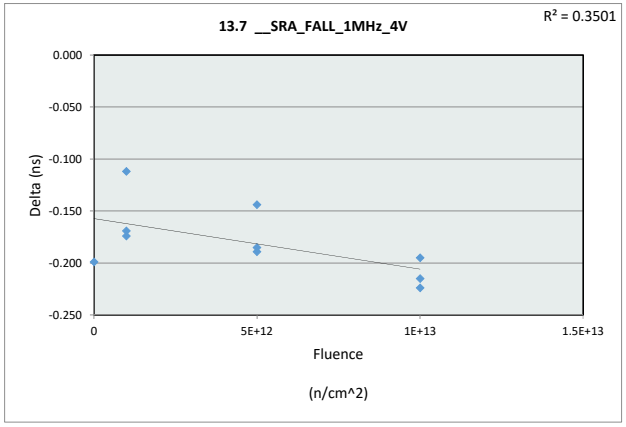
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.125	9.131	9.262	9.239
Average	9.125	9.200	9.322	9.305
Max	9.125	9.273	9.369	9.406
UL	17.000	17.000	17.000	17.000



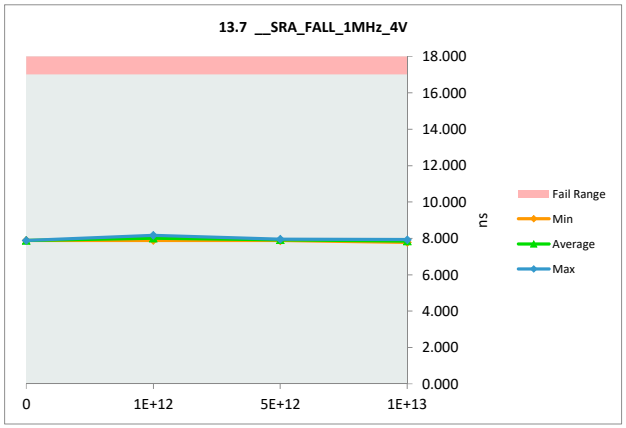
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.7 __SRA_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	8.084	7.885	-0.199
1E+12	45	8.339	8.170	-0.169
1E+12	46	7.991	7.879	-0.112
1E+12	54	8.152	7.978	-0.174
5E+12	57	8.061	7.876	-0.185
5E+12	58	8.070	7.926	-0.144
5E+12	60	8.137	7.948	-0.189
1E+13	62	8.086	7.862	-0.224
1E+13	65	8.143	7.928	-0.215
1E+13	66	7.975	7.780	-0.195
	Max	8.339	8.170	-0.112
	Average	8.104	7.923	-0.181
	Min	7.975	7.780	-0.224
	Std Dev	0.102	0.102	0.033



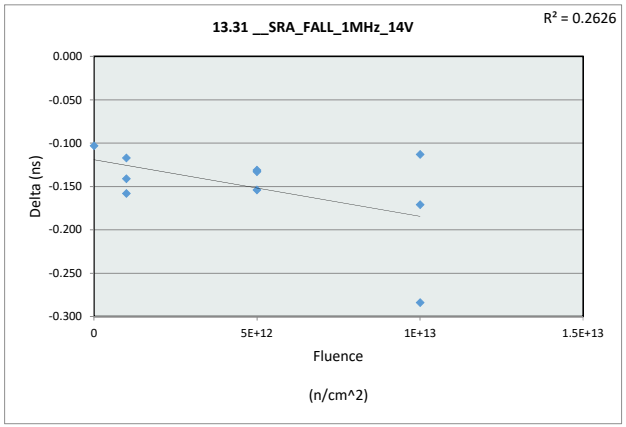
	13.7 __SRA_FALL_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.885	7.879	7.876	7.780
Average	7.885	8.009	7.917	7.857
Max	7.885	8.170	7.948	7.928
UL	17.000	17.000	17.000	17.000



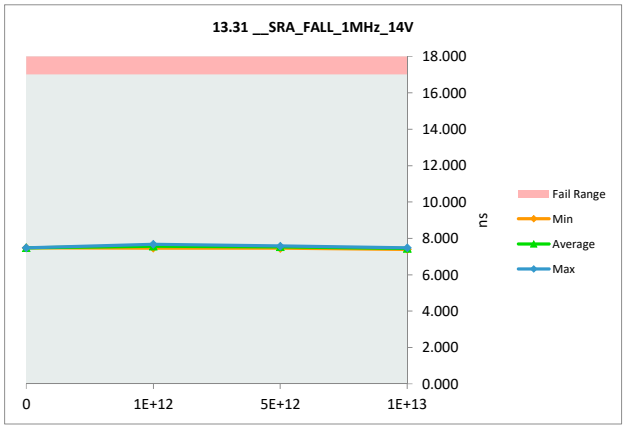
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.31 __SRA_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.582	7.479	-0.103
1E+12	45	7.810	7.669	-0.141
1E+12	46	7.621	7.463	-0.158
1E+12	54	7.706	7.589	-0.117
5E+12	57	7.580	7.447	-0.133
5E+12	58	7.698	7.567	-0.131
5E+12	60	7.729	7.575	-0.154
1E+13	62	7.649	7.478	-0.171
1E+13	65	7.754	7.470	-0.284
1E+13	66	7.502	7.389	-0.113
	Max	7.810	7.669	-0.103
	Average	7.663	7.513	-0.150
	Min	7.502	7.389	-0.284
	Std Dev	0.093	0.084	0.052



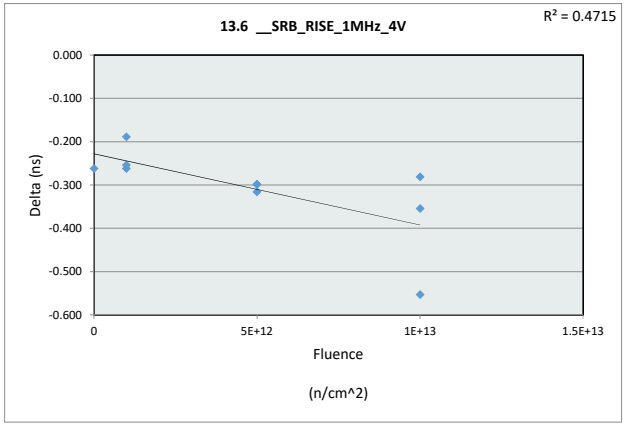
	13.31 __SRA_FALL_1MHz_14V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	7.479	7.463	7.447	7.389
Average	7.479	7.574	7.530	7.446
Max	7.479	7.669	7.575	7.478
UL	17.000	17.000	17.000	17.000



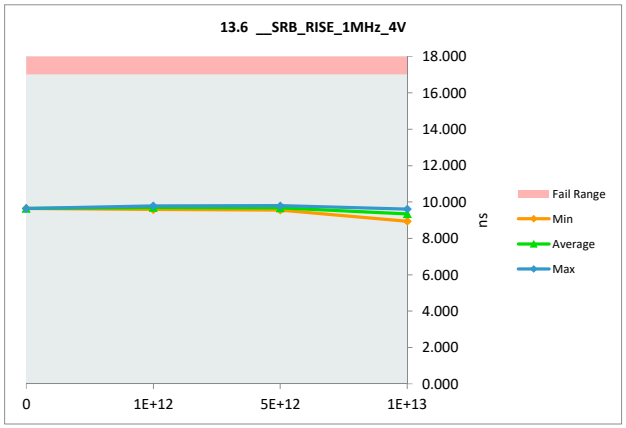
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.6 __SRB_RISE_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.899	9.637	-0.262
1E+12	45	9.979	9.717	-0.262
1E+12	46	9.764	9.575	-0.189
1E+12	54	10.031	9.777	-0.254
5E+12	57	10.092	9.794	-0.298
5E+12	58	9.872	9.556	-0.316
5E+12	60	9.950	9.651	-0.299
1E+13	62	9.834	9.480	-0.354
1E+13	65	9.885	9.604	-0.281
1E+13	66	9.498	8.945	-0.553
	Max	10.092	9.794	-0.189
	Average	9.880	9.574	-0.307
	Min	9.498	8.945	-0.553
	Std Dev	0.165	0.242	0.097



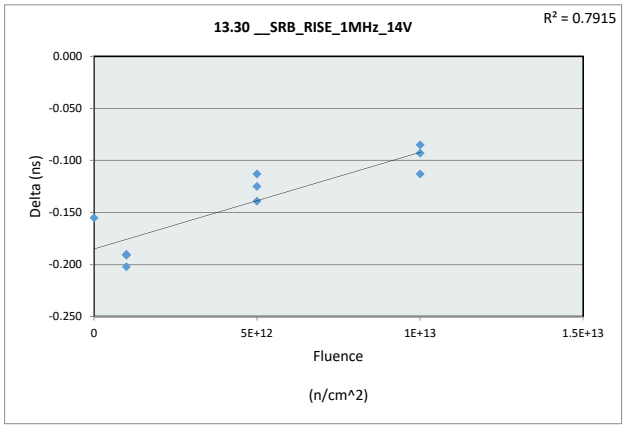
	13.6 __SRB_RISE_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.637	9.575	9.556	8.945
Average	9.637	9.690	9.667	9.343
Max	9.637	9.777	9.794	9.604
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

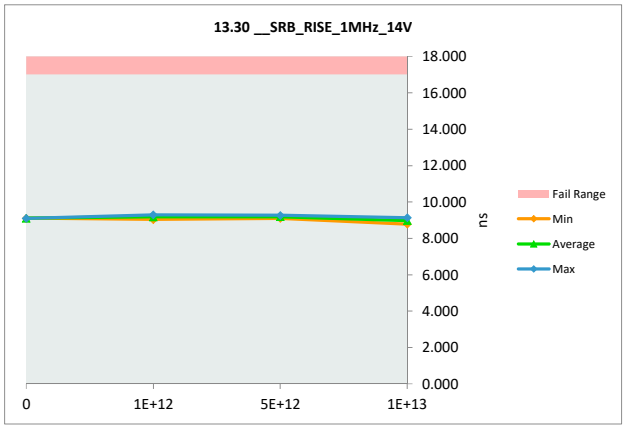
	13.30 __SRB_RISE_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	9.256	9.101	-0.155
1E+12	45	9.370	9.179	-0.191
1E+12	46	9.237	9.035	-0.202
1E+12	54	9.490	9.300	-0.190
5E+12	57	9.378	9.265	-0.113
5E+12	58	9.231	9.106	-0.125
5E+12	60	9.319	9.180	-0.139
1E+13	62	9.219	9.134	-0.085
1E+13	65	9.138	9.025	-0.113
1E+13	66	8.869	8.776	-0.093
	Max	9.490	9.300	-0.085
	Average	9.251	9.110	-0.141
	Min	8.869	8.776	-0.202
	Std Dev	0.167	0.147	0.042



	13.30 __SRB_RISE_1MHz_14V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		

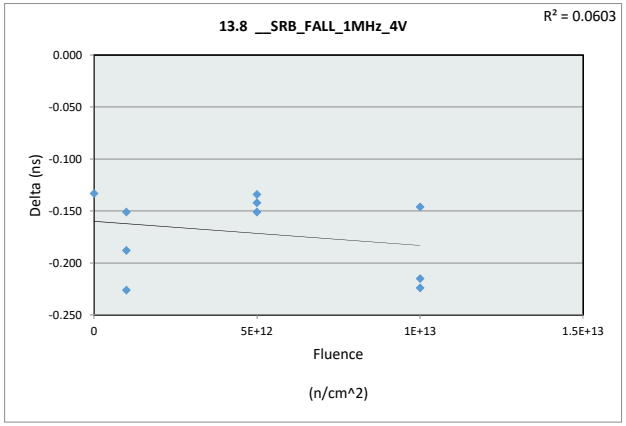
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	9.101	9.035	9.106	8.776
Average	9.101	9.171	9.184	8.978
Max	9.101	9.300	9.265	9.134
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

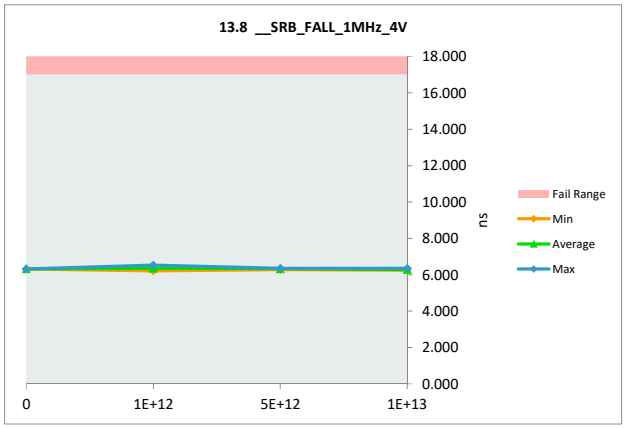
	13.8 __SRB_FALL_1MHz_4V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.450	6.317	-0.133
1E+12	45	6.713	6.525	-0.188
1E+12	46	6.442	6.216	-0.226
1E+12	54	6.497	6.346	-0.151
5E+12	57	6.432	6.281	-0.151
5E+12	58	6.479	6.345	-0.134
5E+12	60	6.489	6.347	-0.142
1E+13	62	6.483	6.259	-0.224
1E+13	65	6.496	6.350	-0.146
1E+13	66	6.457	6.242	-0.215
	Max	6.713	6.525	-0.133
	Average	6.494	6.323	-0.171
	Min	6.432	6.216	-0.226
	Std Dev	0.080	0.086	0.038



	13.8 __SRB_FALL_1MHz_4V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		

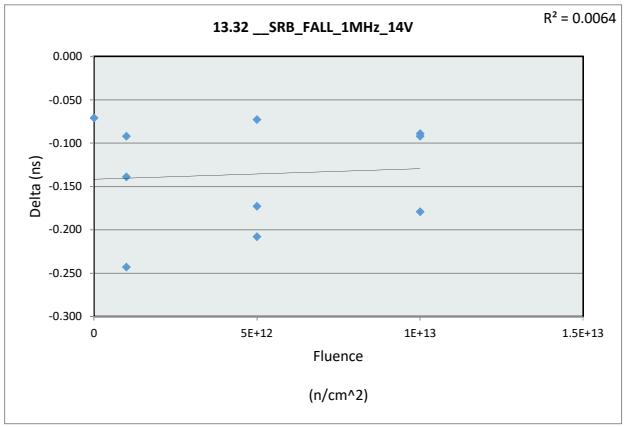
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.317	6.216	6.281	6.242
Average	6.317	6.362	6.324	6.284
Max	6.317	6.525	6.347	6.350
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

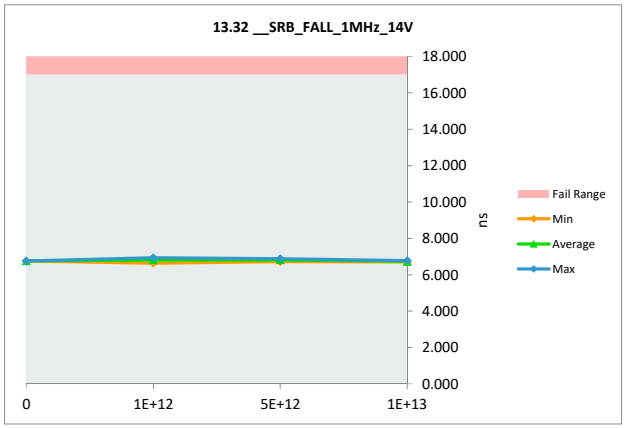
	13.32 __SRB_FALL_1MHz_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	17	17
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.822	6.751	-0.071
1E+12	45	7.074	6.935	-0.139
1E+12	46	6.878	6.635	-0.243
1E+12	54	6.951	6.859	-0.092
5E+12	57	6.931	6.723	-0.208
5E+12	58	7.008	6.835	-0.173
5E+12	60	6.955	6.882	-0.073
1E+13	62	6.909	6.730	-0.179
1E+13	65	6.869	6.777	-0.092
1E+13	66	6.781	6.692	-0.089
	Max	7.074	6.935	-0.071
	Average	6.918	6.782	-0.136
	Min	6.781	6.635	-0.243
	Std Dev	0.086	0.094	0.062



	13.32 __SRB_FALL_1MHz_14V			
Test Site				
Tester				
Test Number				
Max Limit	17	ns		
Min Limit		ns		

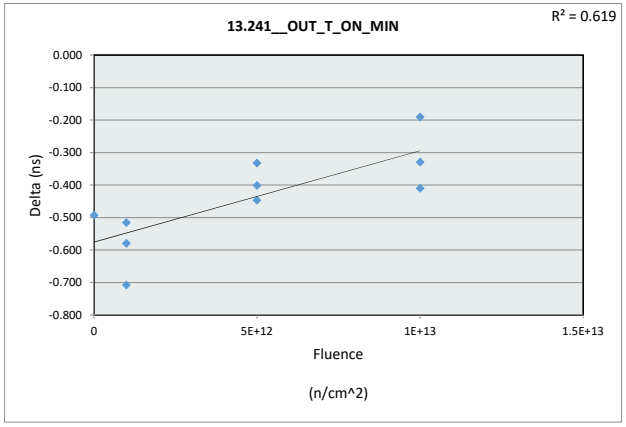
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	6.751	6.635	6.723	6.692
Average	6.751	6.810	6.813	6.733
Max	6.751	6.935	6.882	6.777
UL	17.000	17.000	17.000	17.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

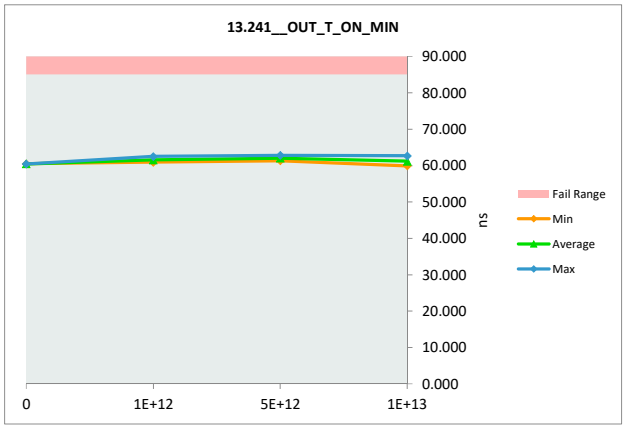
	13.241__OUT_T_ON_MIN	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	85	85
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	60.943	60.450	-0.493
1E+12	45	61.653	61.137	-0.516
1E+12	46	63.093	62.513	-0.580
1E+12	54	61.601	60.893	-0.708
5E+12	57	62.286	61.954	-0.332
5E+12	58	63.190	62.789	-0.401
5E+12	60	61.771	61.324	-0.447
1E+13	62	61.225	60.896	-0.329
1E+13	65	60.299	59.889	-0.410
1E+13	66	62.873	62.682	-0.191
	Max	63.190	62.789	-0.191
	Average	61.893	61.453	-0.441
	Min	60.299	59.889	-0.708
	Std Dev	0.959	0.992	0.145



	13.241__OUT_T_ON_MIN	
Test Site		
Tester		
Test Number		
Max Limit	85	ns
Min Limit		ns

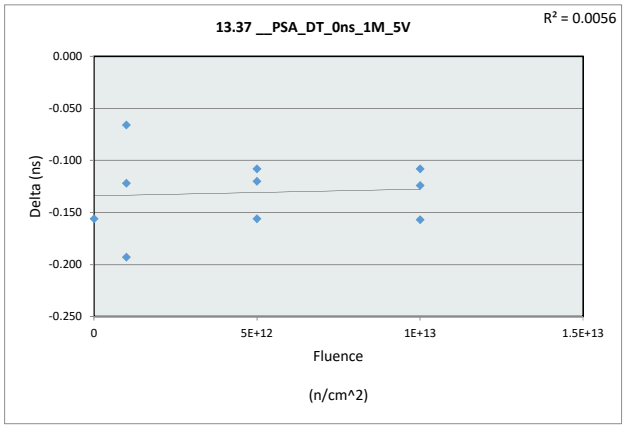
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	60.450	60.893	61.324	59.889
Average	60.450	61.514	62.022	61.156
Max	60.450	62.513	62.789	62.682
UL	85.000	85.000	85.000	85.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

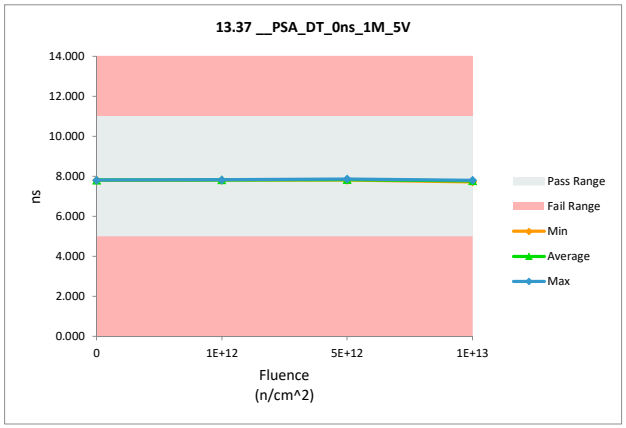
	13.37 __PSA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.963	7.807	-0.156
1E+12	45	7.891	7.825	-0.066
1E+12	46	7.940	7.818	-0.122
1E+12	54	7.996	7.803	-0.193
5E+12	57	7.985	7.865	-0.120
5E+12	58	7.958	7.802	-0.156
5E+12	60	7.956	7.848	-0.108
1E+13	62	7.882	7.725	-0.157
1E+13	65	7.910	7.802	-0.108
1E+13	66	7.888	7.764	-0.124
	Max	7.996	7.865	-0.066
	Average	7.937	7.806	-0.131
	Min	7.882	7.725	-0.193
	Std Dev	0.042	0.040	0.035



	13.37 __PSA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.807	7.803	7.802	7.725
Average	7.807	7.815	7.838	7.764
Max	7.807	7.825	7.865	7.802
UL	11.000	11.000	11.000	11.000



Neutron Displacement Damage (NDD) Report
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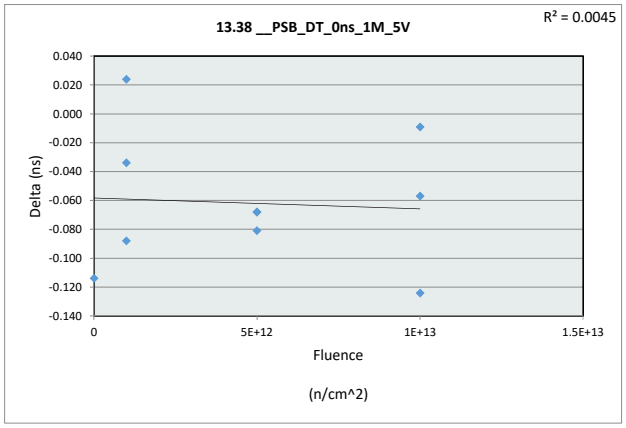
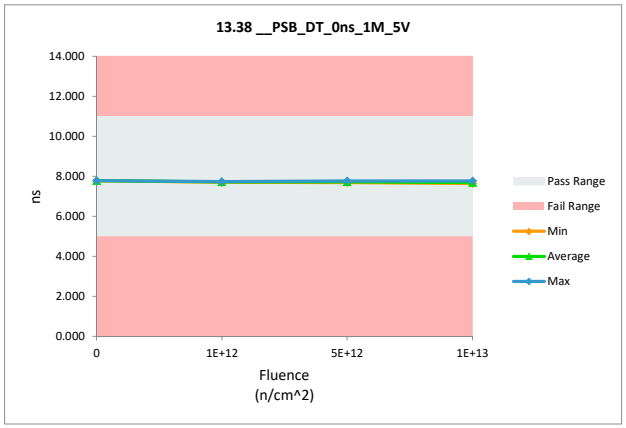
	13.38 __PSB_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.903	7.789	-0.114
1E+12	45	7.752	7.718	-0.034
1E+12	46	7.833	7.745	-0.088
1E+12	54	7.667	7.691	0.024
5E+12	57	7.834	7.766	-0.068
5E+12	58	7.785	7.704	-0.081
5E+12	60	7.752	7.684	-0.068
1E+13	62	7.684	7.675	-0.009
1E+13	65	7.819	7.762	-0.057
1E+13	66	7.768	7.644	-0.124
	Max	7.903	7.789	0.024
	Average	7.780	7.718	-0.062
	Min	7.667	7.644	-0.124
	Std Dev	0.072	0.046	0.046



	13.38 __PSB_DT_0ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	11	ns		
Min Limit	5	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.789	7.691	7.684	7.644
Average	7.789	7.718	7.718	7.694
Max	7.789	7.745	7.766	7.762
UL	11.000	11.000	11.000	11.000



Neutron Displacement Damage (NDD) Report
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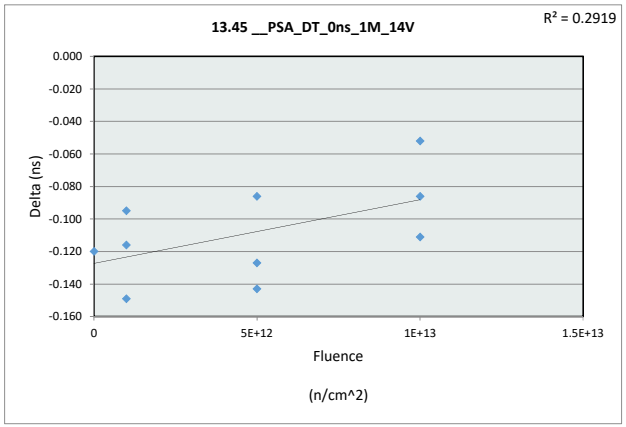
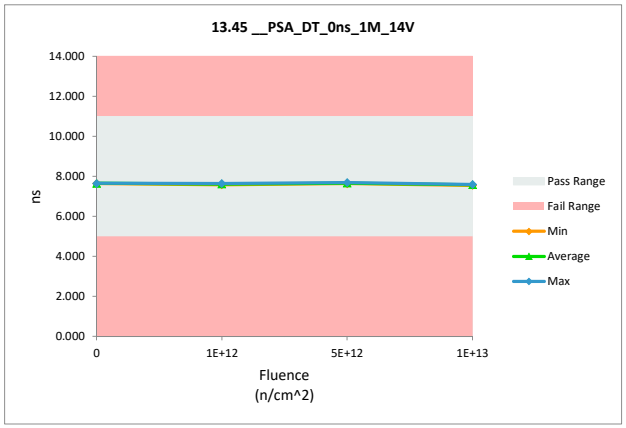
	13.45 __PSA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.764	7.644	-0.120
1E+12	45	7.666	7.571	-0.095
1E+12	46	7.734	7.618	-0.116
1E+12	54	7.788	7.639	-0.149
5E+12	57	7.800	7.673	-0.127
5E+12	58	7.713	7.627	-0.086
5E+12	60	7.825	7.682	-0.143
1E+13	62	7.627	7.541	-0.086
1E+13	65	7.643	7.591	-0.052
1E+13	66	7.702	7.591	-0.111
	Max	7.825	7.682	-0.052
	Average	7.726	7.618	-0.109
	Min	7.627	7.541	-0.149
	Std Dev	0.068	0.045	0.029



	13.45 __PSA_DT_0ns_1M_14V			
Test Site				
Tester				
Test Number				
Max Limit	11	ns		
Min Limit	5	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.644	7.571	7.627	7.541
Average	7.644	7.609	7.661	7.574
Max	7.644	7.639	7.682	7.591
UL	11.000	11.000	11.000	11.000



Neutron Displacement Damage (NDD) Report
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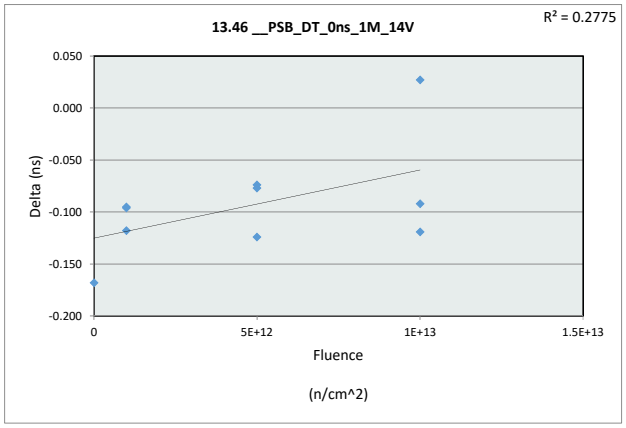
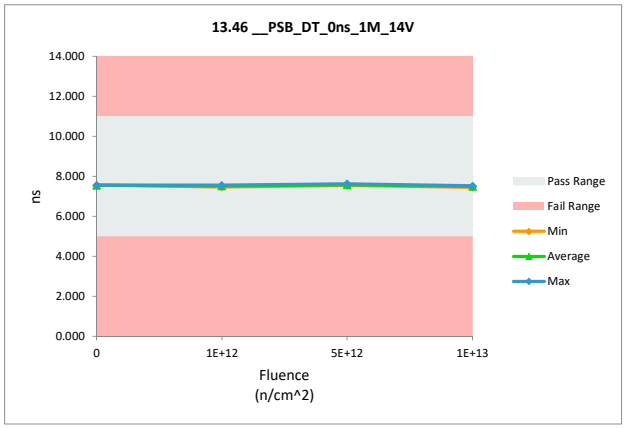
	13.46 __PSB_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.716	7.548	-0.168
1E+12	45	7.557	7.462	-0.095
1E+12	46	7.647	7.551	-0.096
1E+12	54	7.625	7.507	-0.118
5E+12	57	7.697	7.620	-0.077
5E+12	58	7.676	7.552	-0.124
5E+12	60	7.627	7.553	-0.074
1E+13	62	7.495	7.522	0.027
1E+13	65	7.607	7.515	-0.092
1E+13	66	7.570	7.451	-0.119
	Max	7.716	7.620	0.027
	Average	7.622	7.528	-0.094
	Min	7.495	7.451	-0.168
	Std Dev	0.068	0.049	0.050



	13.46 __PSB_DT_0ns_1M_14V			
Test Site				
Tester				
Test Number				
Max Limit	11	ns		
Min Limit	5	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.548	7.462	7.552	7.451
Average	7.548	7.507	7.575	7.496
Max	7.548	7.551	7.620	7.522
UL	11.000	11.000	11.000	11.000



Neutron Displacement Damage (NDD) Report
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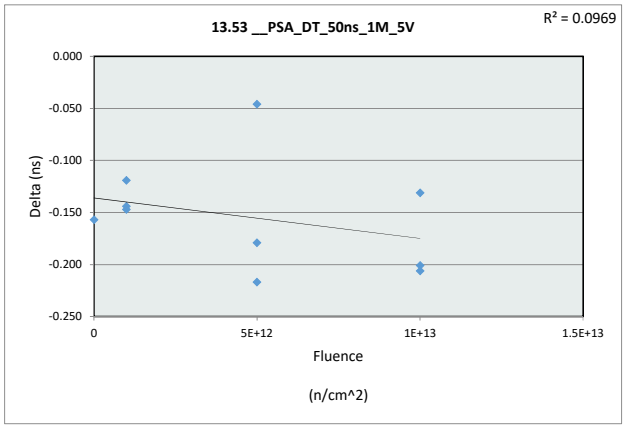
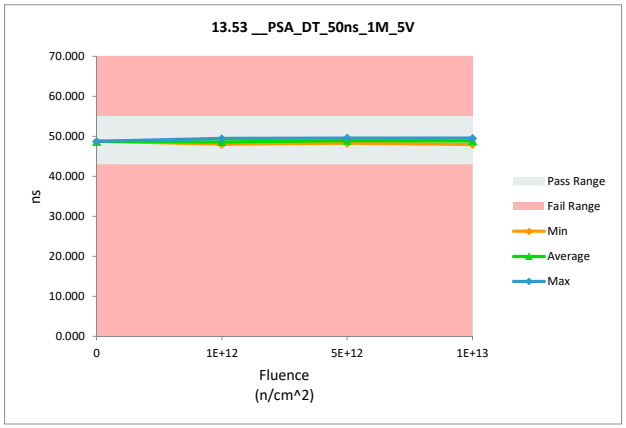
	13.53 __PSA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	48.882	48.725	-0.157
1E+12	45	48.150	48.006	-0.144
1E+12	46	48.402	48.283	-0.119
1E+12	54	49.592	49.445	-0.147
5E+12	57	49.092	48.875	-0.217
5E+12	58	48.283	48.237	-0.046
5E+12	60	49.771	49.592	-0.179
1E+13	62	48.139	47.938	-0.201
1E+13	65	49.629	49.498	-0.131
1E+13	66	49.245	49.039	-0.206
	Max	49.771	49.592	-0.046
	Average	48.919	48.764	-0.155
	Min	48.139	47.938	-0.217
	Std Dev	0.640	0.627	0.051



	13.53 __PSA_DT_50ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	48.725	48.006	48.237	47.938
Average	48.725	48.578	48.901	48.825
Max	48.725	49.445	49.592	49.498
UL	55.000	55.000	55.000	55.000



Neutron Displacement Damage (NDD) Report
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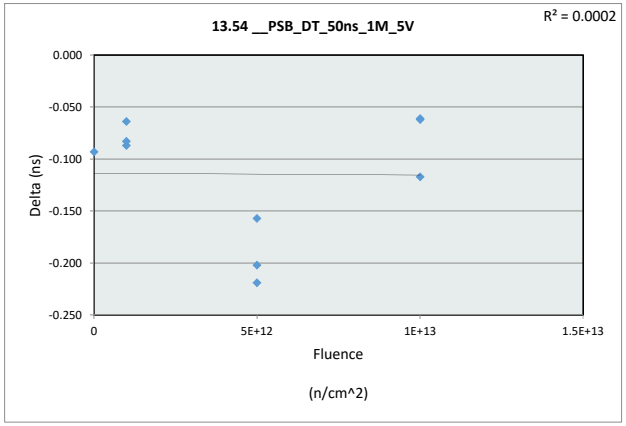
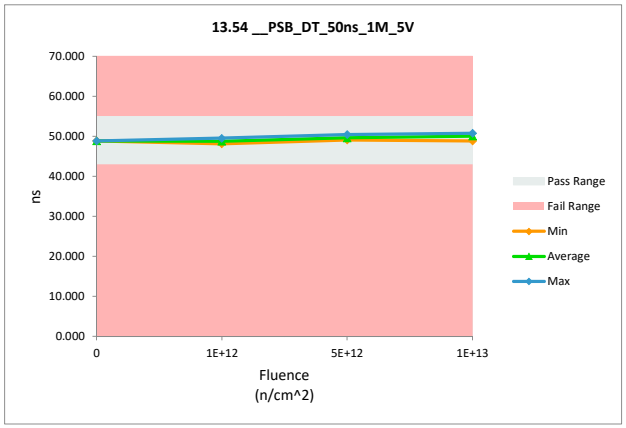
	13.54 __PSB_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	48.930	48.837	-0.093
1E+12	45	48.237	48.150	-0.087
1E+12	46	48.783	48.700	-0.083
1E+12	54	49.579	49.515	-0.064
5E+12	57	49.341	49.122	-0.219
5E+12	58	49.334	49.177	-0.157
5E+12	60	50.609	50.407	-0.202
1E+13	62	48.879	48.818	-0.061
1E+13	65	50.600	50.483	-0.117
1E+13	66	50.802	50.740	-0.062
	Max	50.802	50.740	-0.061
	Average	49.509	49.395	-0.114
	Min	48.237	48.150	-0.219
	Std Dev	0.883	0.871	0.058



	13.54 __PSB_DT_50ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	48.837	48.150	49.122	48.818
Average	48.837	48.788	49.569	50.014
Max	48.837	49.515	50.407	50.740
UL	55.000	55.000	55.000	55.000



Neutron Displacement Damage (NDD) Report
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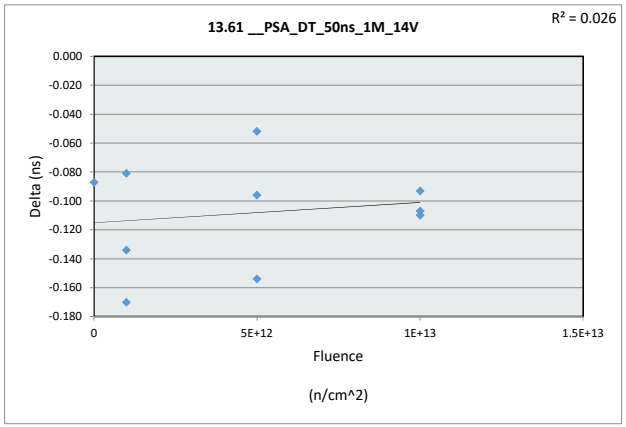
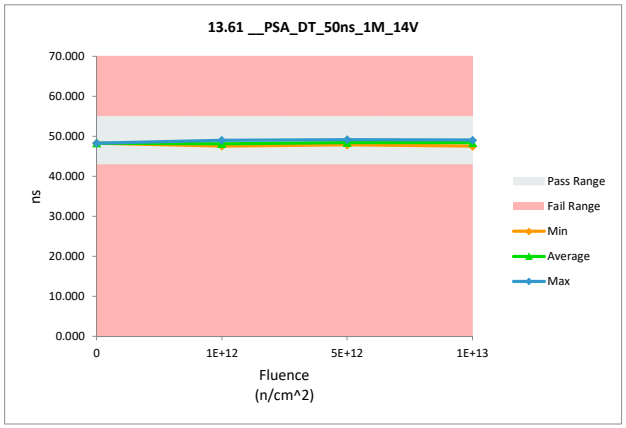
	13.61 __PSA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	48.337	48.250	-0.087
1E+12	45	47.620	47.539	-0.081
1E+12	46	47.893	47.723	-0.170
1E+12	54	49.135	49.001	-0.134
5E+12	57	48.583	48.429	-0.154
5E+12	58	47.860	47.808	-0.052
5E+12	60	49.282	49.186	-0.096
1E+13	62	47.636	47.526	-0.110
1E+13	65	49.124	49.031	-0.093
1E+13	66	48.670	48.563	-0.107
	Max	49.282	49.186	-0.052
	Average	48.414	48.306	-0.108
	Min	47.620	47.526	-0.170
	Std Dev	0.640	0.637	0.035



	13.61 __PSA_DT_50ns_1M_14			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	48.250	47.539	47.808	47.526
Average	48.250	48.088	48.474	48.373
Max	48.250	49.001	49.186	49.031
UL	55.000	55.000	55.000	55.000



Neutron Displacement Damage (NDD) Report
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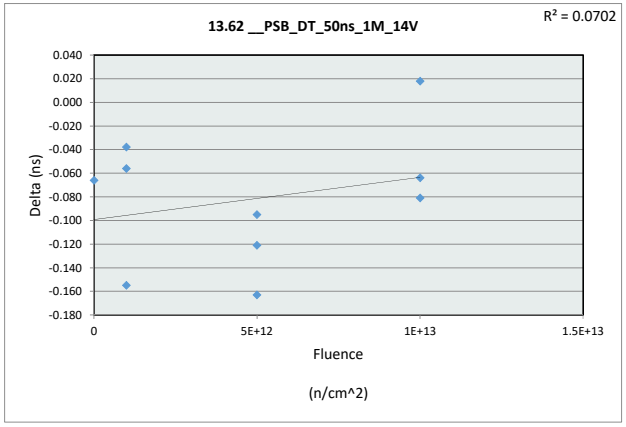
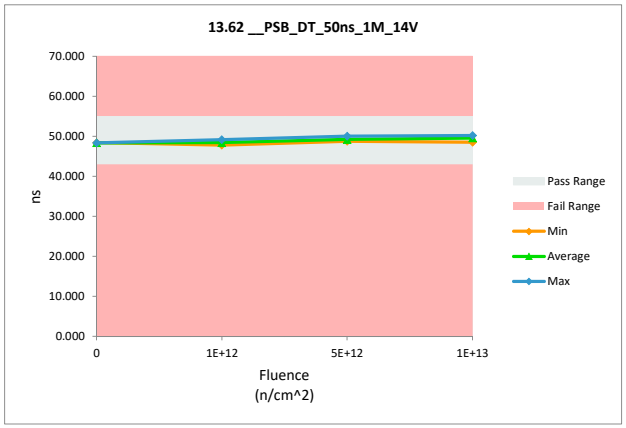
	13.62 __PSB_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	48.437	48.371	-0.066
1E+12	45	47.814	47.776	-0.038
1E+12	46	48.329	48.273	-0.056
1E+12	54	49.295	49.140	-0.155
5E+12	57	48.964	48.801	-0.163
5E+12	58	48.906	48.785	-0.121
5E+12	60	50.124	50.029	-0.095
1E+13	62	48.471	48.489	0.018
1E+13	65	50.128	50.064	-0.064
1E+13	66	50.325	50.244	-0.081
	Max	50.325	50.244	0.018
	Average	49.079	48.997	-0.082
	Min	47.814	47.776	-0.163
	Std Dev	0.868	0.852	0.055



	13.62 __PSB_DT_50ns_1M_14			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	48.371	47.776	48.785	48.489
Average	48.371	48.396	49.205	49.599
Max	48.371	49.140	50.029	50.244
UL	55.000	55.000	55.000	55.000



Neutron Displacement Damage (NDD) Report
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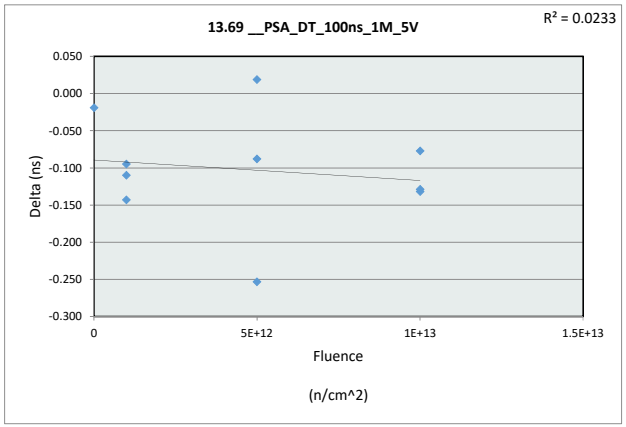
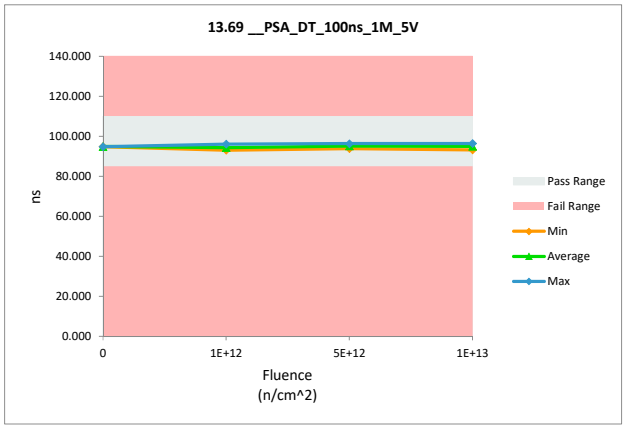
	13.69 __PSA_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	94.880	94.861	-0.019
1E+12	45	93.201	93.058	-0.143
1E+12	46	93.821	93.726	-0.095
1E+12	54	96.174	96.064	-0.110
5E+12	57	95.455	95.202	-0.253
5E+12	58	93.757	93.776	0.019
5E+12	60	96.372	96.284	-0.088
1E+13	62	93.271	93.139	-0.132
1E+13	65	96.485	96.408	-0.077
1E+13	66	95.444	95.315	-0.129
	Max	96.485	96.408	0.019
	Average	94.886	94.783	-0.103
	Min	93.201	93.058	-0.253
	Std Dev	1.287	1.283	0.073



	13.69 __PSA_DT_100ns_1M_5			
Test Site				
Tester				
Test Number				
Max Limit	110	ns		
Min Limit	85	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	94.861	93.058	93.776	93.139
Average	94.861	94.283	95.087	94.954
Max	94.861	96.064	96.284	96.408
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
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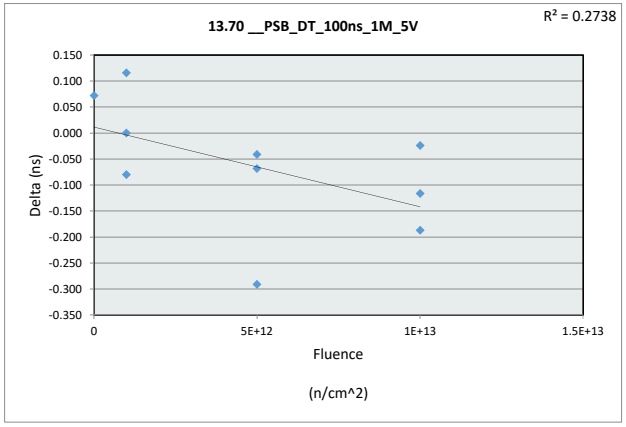
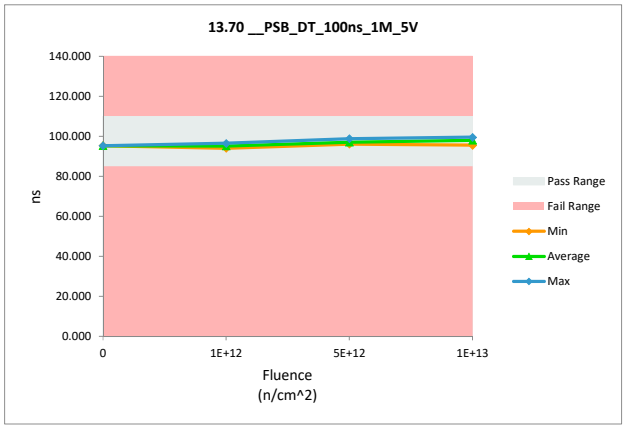
	13.70 __PSB_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	95.157	95.229	0.072
1E+12	45	93.821	93.937	0.116
1E+12	46	95.164	95.084	-0.080
1E+12	54	96.467	96.467	0.000
5E+12	57	96.381	96.090	-0.291
5E+12	58	96.268	96.200	-0.068
5E+12	60	98.792	98.751	-0.041
1E+13	62	95.517	95.493	-0.024
1E+13	65	99.132	99.016	-0.116
1E+13	66	99.720	99.533	-0.187
	Max	99.720	99.533	0.116
	Average	96.642	96.580	-0.062
	Min	93.821	93.937	-0.291
	Std Dev	1.948	1.885	0.119



	13.70 __PSB_DT_100ns_1M_5	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	85	ns

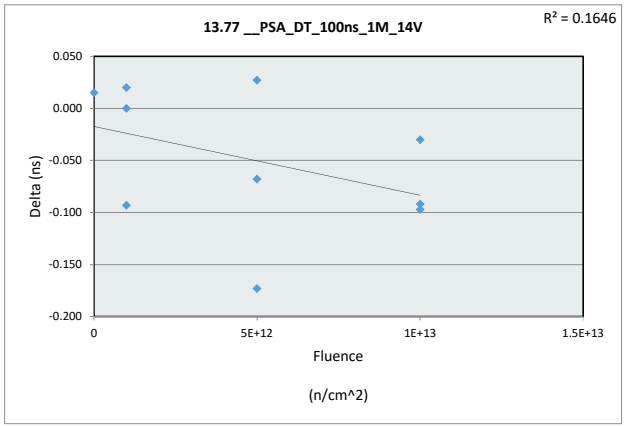
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	95.229	93.937	96.090	95.493
Average	95.229	95.163	97.014	98.014
Max	95.229	96.467	98.751	99.533
UL	110.000	110.000	110.000	110.000



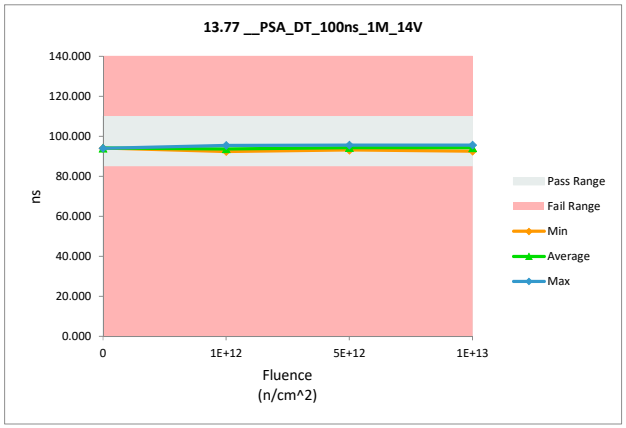
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.77 __PSA_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	94.075	94.090	0.015
1E+12	45	92.446	92.466	0.020
1E+12	46	93.069	93.069	0.000
1E+12	54	95.509	95.416	-0.093
5E+12	57	94.639	94.466	-0.173
5E+12	58	93.038	93.065	0.027
5E+12	60	95.676	95.608	-0.068
1E+13	62	92.614	92.522	-0.092
1E+13	65	95.683	95.653	-0.030
1E+13	66	94.678	94.581	-0.097
	Max	95.683	95.653	0.027
	Average	94.143	94.094	-0.049
	Min	92.446	92.466	-0.173
	Std Dev	1.279	1.251	0.066



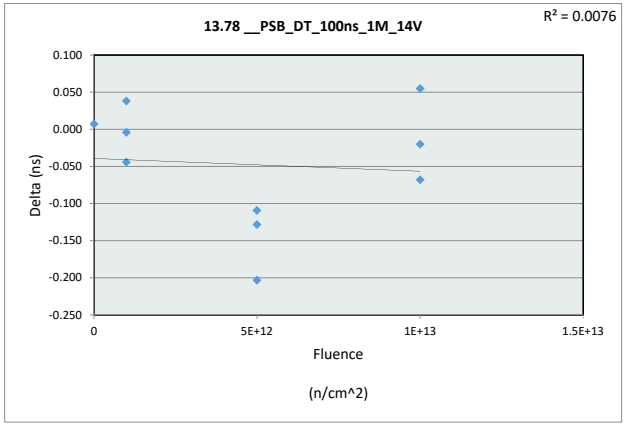
	13.77 __PSA_DT_100ns_1M_1			
Test Site				
Tester				
Test Number				
Max Limit	110	ns		
Min Limit	85	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	94.090	92.466	93.065	92.522
Average	94.090	93.650	94.380	94.252
Max	94.090	95.416	95.608	95.653
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

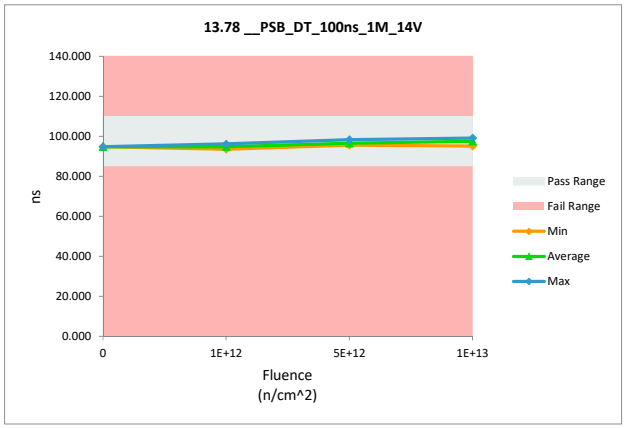
	13.78 __PSB_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	94.783	94.790	0.007
1E+12	45	93.500	93.538	0.038
1E+12	46	94.694	94.650	-0.044
1E+12	54	96.129	96.125	-0.004
5E+12	57	95.874	95.671	-0.203
5E+12	58	95.895	95.786	-0.109
5E+12	60	98.387	98.259	-0.128
1E+13	62	95.018	95.073	0.055
1E+13	65	98.533	98.465	-0.068
1E+13	66	99.117	99.097	-0.020
	Max	99.117	99.097	0.055
	Average	96.193	96.145	-0.048
	Min	93.500	93.538	-0.203
	Std Dev	1.883	1.854	0.080



	13.78 __PSB_DT_100ns_1M_1	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	85	ns

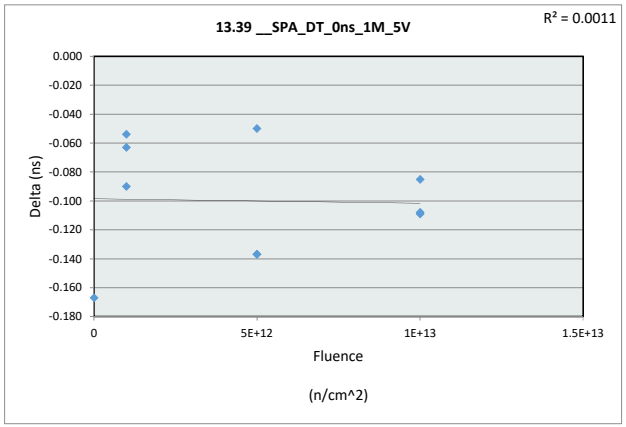
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	94.790	93.538	95.671	95.073
Average	94.790	94.771	96.572	97.545
Max	94.790	96.125	98.259	99.097
UL	110.000	110.000	110.000	110.000



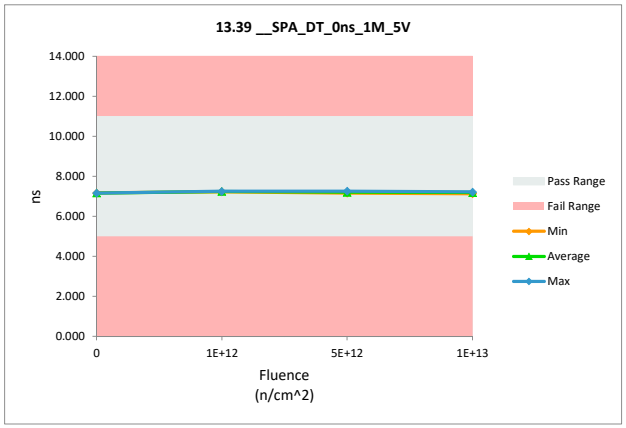
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.39 __SPA_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.330	7.163	-0.167
1E+12	45	7.288	7.225	-0.063
1E+12	46	7.333	7.243	-0.090
1E+12	54	7.297	7.243	-0.054
5E+12	57	7.329	7.192	-0.137
5E+12	58	7.299	7.162	-0.137
5E+12	60	7.301	7.251	-0.050
1E+13	62	7.313	7.204	-0.109
1E+13	65	7.326	7.218	-0.108
1E+13	66	7.209	7.124	-0.085
	Max	7.333	7.251	-0.050
	Average	7.303	7.203	-0.100
	Min	7.209	7.124	-0.167
	Std Dev	0.037	0.042	0.039



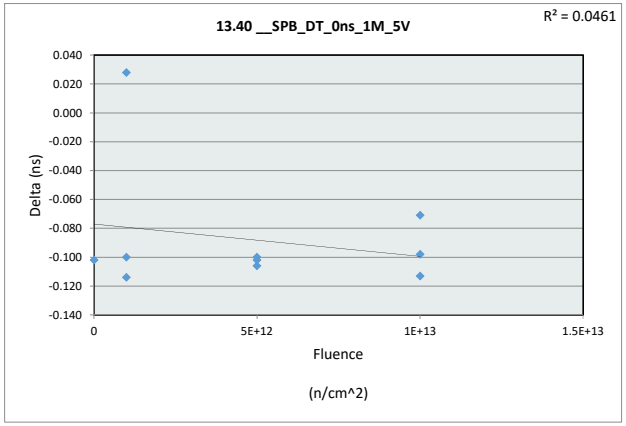
	13.39 __SPA_DT_0ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	11	ns		
Min Limit	5	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.163	7.225	7.162	7.124
Average	7.163	7.237	7.202	7.182
Max	7.163	7.243	7.251	7.218
UL	11.000	11.000	11.000	11.000



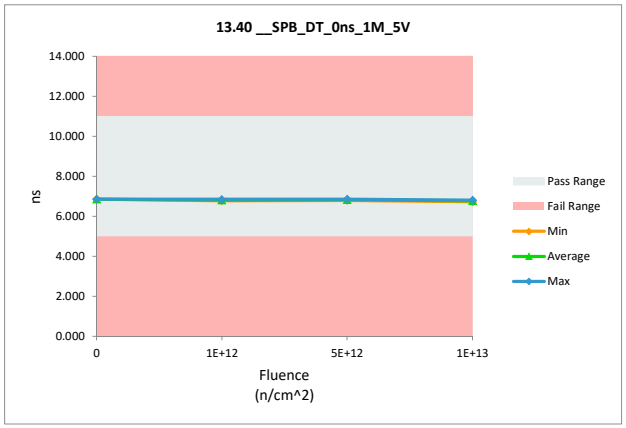
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.40 __SPB_DT_0ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.955	6.853	-0.102
1E+12	45	6.815	6.843	0.028
1E+12	46	6.904	6.790	-0.114
1E+12	54	6.875	6.775	-0.100
5E+12	57	6.920	6.818	-0.102
5E+12	58	6.897	6.791	-0.106
5E+12	60	6.964	6.864	-0.100
1E+13	62	6.884	6.813	-0.071
1E+13	65	6.921	6.808	-0.113
1E+13	66	6.820	6.722	-0.098
	Max	6.964	6.864	0.028
	Average	6.895	6.808	-0.088
	Min	6.815	6.722	-0.114
	Std Dev	0.050	0.042	0.042



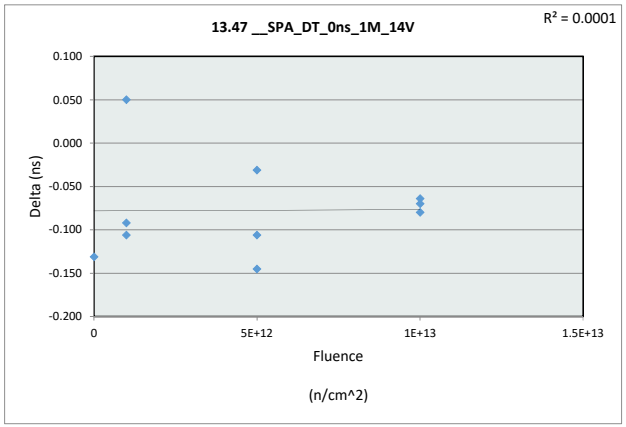
	13.40 __SPB_DT_0ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	11	ns		
Min Limit	5	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	6.853	6.775	6.791	6.722
Average	6.853	6.803	6.824	6.781
Max	6.853	6.843	6.864	6.813
UL	11.000	11.000	11.000	11.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

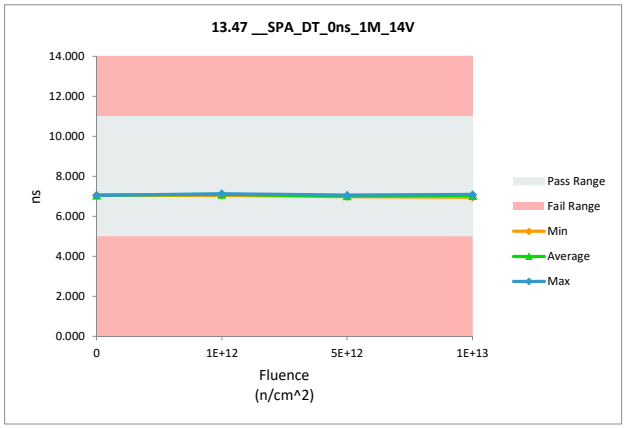
	13.47 __SPA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	7.185	7.054	-0.131
1E+12	45	7.044	7.094	0.050
1E+12	46	7.142	7.050	-0.092
1E+12	54	7.235	7.129	-0.106
5E+12	57	7.171	7.026	-0.145
5E+12	58	7.014	6.983	-0.031
5E+12	60	7.163	7.057	-0.106
1E+13	62	7.149	7.085	-0.064
1E+13	65	7.134	7.064	-0.070
1E+13	66	7.036	6.956	-0.080
	Max	7.235	7.129	0.050
	Average	7.127	7.050	-0.078
	Min	7.014	6.956	-0.145
	Std Dev	0.072	0.051	0.056



	13.47 __SPA_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Max Limit	11	ns
Min Limit	5	ns

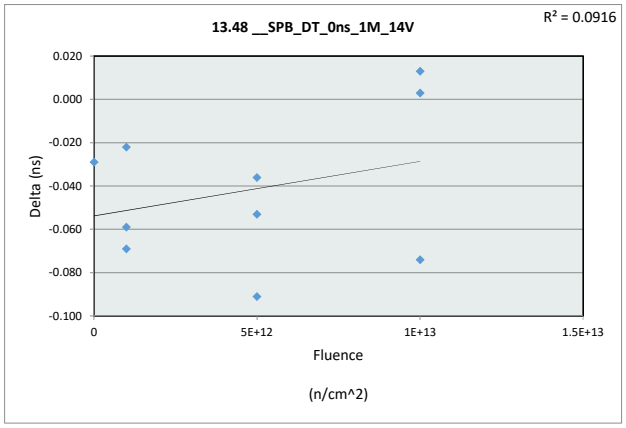
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	7.054	7.050	6.983	6.956
Average	7.054	7.091	7.022	7.035
Max	7.054	7.129	7.057	7.085
UL	11.000	11.000	11.000	11.000



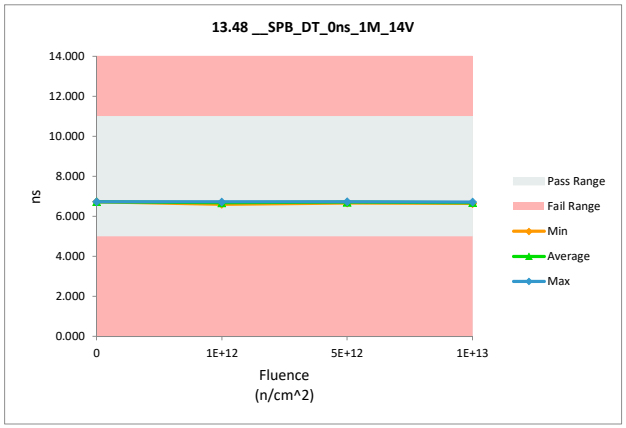
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.48 __SPB_DT_0ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	11	11
Min Limit	5	5

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	6.754	6.725	-0.029
1E+12	45	6.677	6.608	-0.069
1E+12	46	6.718	6.696	-0.022
1E+12	54	6.777	6.718	-0.059
5E+12	57	6.767	6.731	-0.036
5E+12	58	6.714	6.661	-0.053
5E+12	60	6.806	6.715	-0.091
1E+13	62	6.773	6.699	-0.074
1E+13	65	6.708	6.711	0.003
1E+13	66	6.622	6.635	0.013
	Max	6.806	6.731	0.013
	Average	6.732	6.690	-0.042
	Min	6.622	6.608	-0.091
	Std Dev	0.055	0.041	0.034



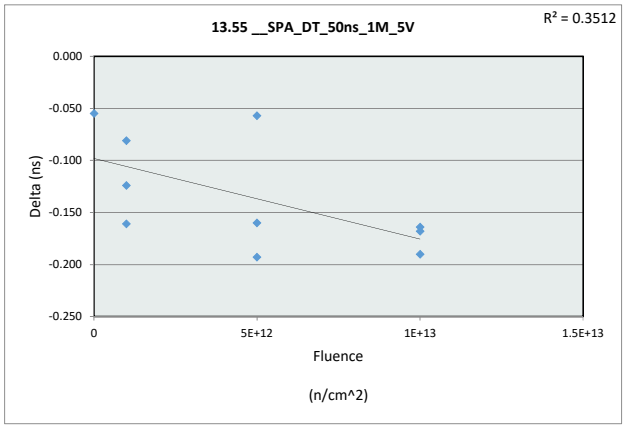
	13.48 __SPB_DT_0ns_1M_14V			
Test Site				
Tester				
Test Number				
Max Limit	11	ns		
Min Limit	5	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	5.000	5.000	5.000	5.000
Min	6.725	6.608	6.661	6.635
Average	6.725	6.674	6.702	6.682
Max	6.725	6.718	6.731	6.711
UL	11.000	11.000	11.000	11.000



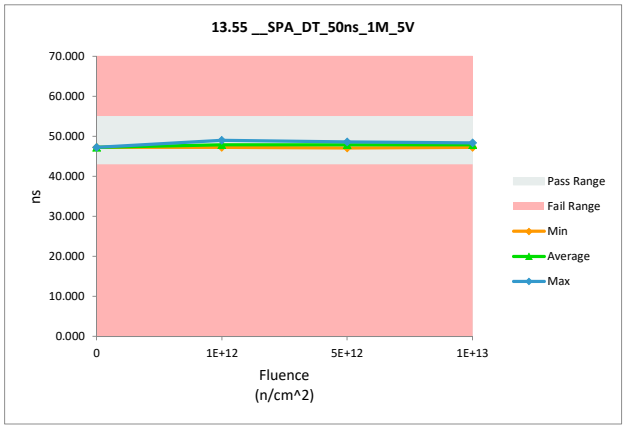
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.55 __SPA_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	47.327	47.272	-0.055
1E+12	45	47.466	47.305	-0.161
1E+12	46	47.317	47.236	-0.081
1E+12	54	49.153	49.029	-0.124
5E+12	57	48.111	47.951	-0.160
5E+12	58	47.114	47.057	-0.057
5E+12	60	48.767	48.574	-0.193
1E+13	62	47.437	47.247	-0.190
1E+13	65	48.527	48.359	-0.168
1E+13	66	48.233	48.069	-0.164
	Max	49.153	49.029	-0.055
	Average	47.945	47.810	-0.135
	Min	47.114	47.057	-0.193
	Std Dev	0.710	0.684	0.053



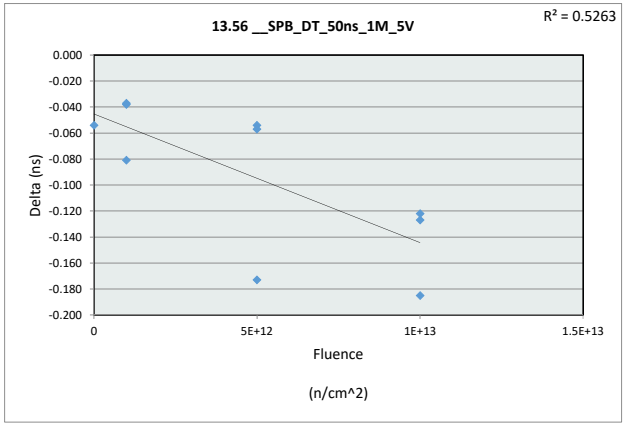
	13.55 __SPA_DT_50ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	47.272	47.236	47.057	47.247
Average	47.272	47.857	47.861	47.892
Max	47.272	49.029	48.574	48.359
UL	55.000	55.000	55.000	55.000



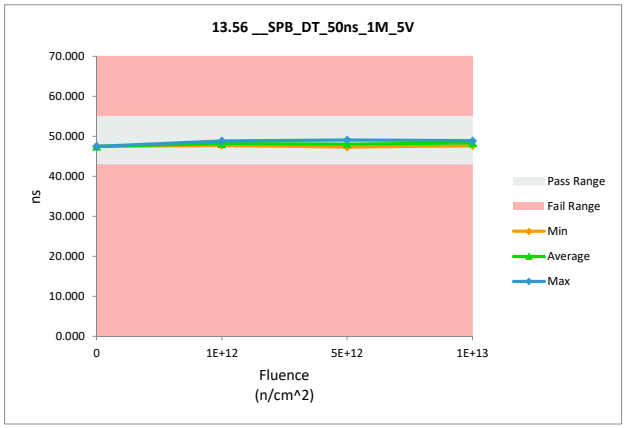
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.56 __SPB_DT_50ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	47.506	47.452	-0.054
1E+12	45	47.889	47.852	-0.037
1E+12	46	47.821	47.740	-0.081
1E+12	54	48.870	48.832	-0.038
5E+12	57	47.524	47.351	-0.173
5E+12	58	47.744	47.690	-0.054
5E+12	60	49.110	49.053	-0.057
1E+13	62	47.815	47.630	-0.185
1E+13	65	49.008	48.881	-0.127
1E+13	66	48.764	48.642	-0.122
	Max	49.110	49.053	-0.037
	Average	48.205	48.112	-0.093
	Min	47.506	47.351	-0.185
	Std Dev	0.648	0.659	0.055



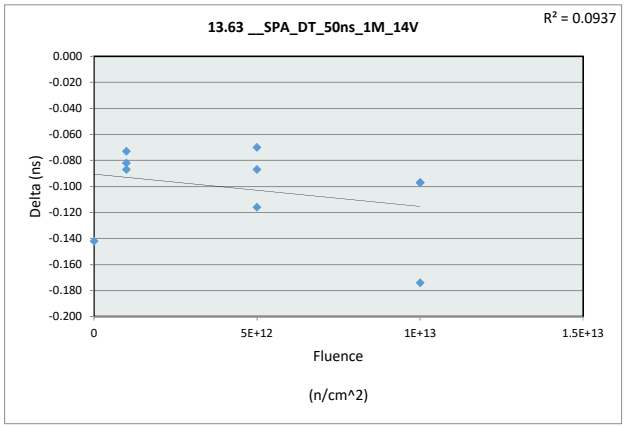
	13.56 __SPB_DT_50ns_1M_5V			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	47.452	47.740	47.351	47.630
Average	47.452	48.141	48.031	48.384
Max	47.452	48.832	49.053	48.881
UL	55.000	55.000	55.000	55.000



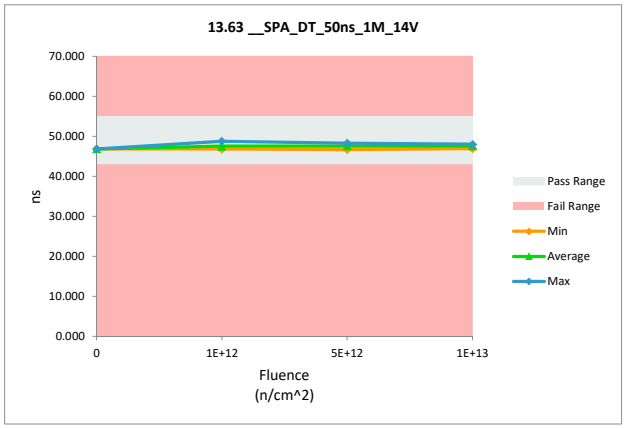
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.63 __SPA_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	46.977	46.835	-0.142
1E+12	45	47.008	46.926	-0.082
1E+12	46	46.880	46.807	-0.073
1E+12	54	48.857	48.770	-0.087
5E+12	57	47.732	47.645	-0.087
5E+12	58	46.755	46.685	-0.070
5E+12	60	48.376	48.260	-0.116
1E+13	62	47.074	46.900	-0.174
1E+13	65	48.083	47.986	-0.097
1E+13	66	47.880	47.783	-0.097
	Max	48.857	48.770	-0.070
	Average	47.562	47.460	-0.103
	Min	46.755	46.685	-0.174
	Std Dev	0.726	0.729	0.033



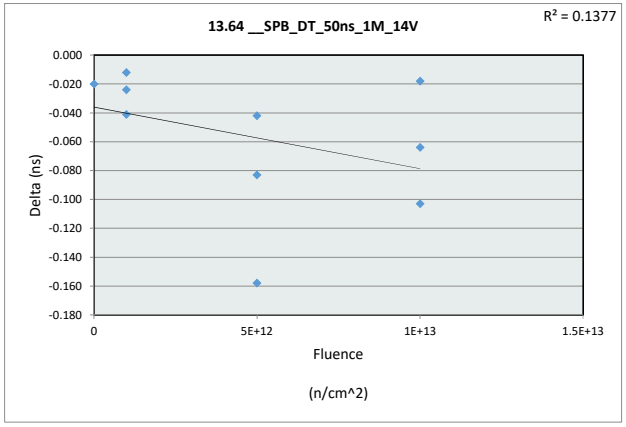
	13.63 __SPA_DT_50ns_1M_14			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	46.835	46.807	46.685	46.900
Average	46.835	47.501	47.530	47.556
Max	46.835	48.770	48.260	47.986
UL	55.000	55.000	55.000	55.000



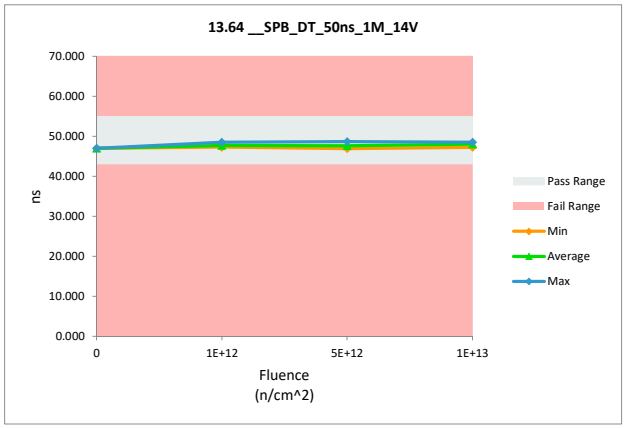
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.64 __SPB_DT_50ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	43	43

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	47.004	46.984	-0.020
1E+12	45	47.383	47.371	-0.012
1E+12	46	47.277	47.253	-0.024
1E+12	54	48.554	48.513	-0.041
5E+12	57	47.075	46.917	-0.158
5E+12	58	47.329	47.246	-0.083
5E+12	60	48.765	48.723	-0.042
1E+13	62	47.367	47.264	-0.103
1E+13	65	48.562	48.498	-0.064
1E+13	66	48.317	48.299	-0.018
	Max	48.765	48.723	-0.012
	Average	47.763	47.707	-0.057
	Min	47.004	46.917	-0.158
	Std Dev	0.695	0.710	0.047



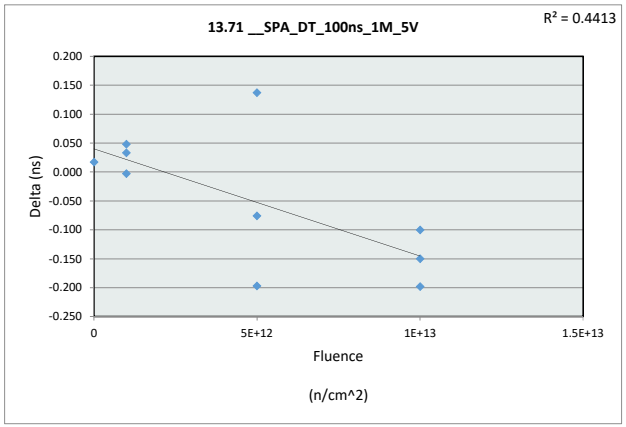
	13.64 __SPB_DT_50ns_1M_14			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	43	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	43.000	43.000	43.000	43.000
Min	46.984	47.253	46.917	47.264
Average	46.984	47.712	47.629	48.020
Max	46.984	48.513	48.723	48.498
UL	55.000	55.000	55.000	55.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

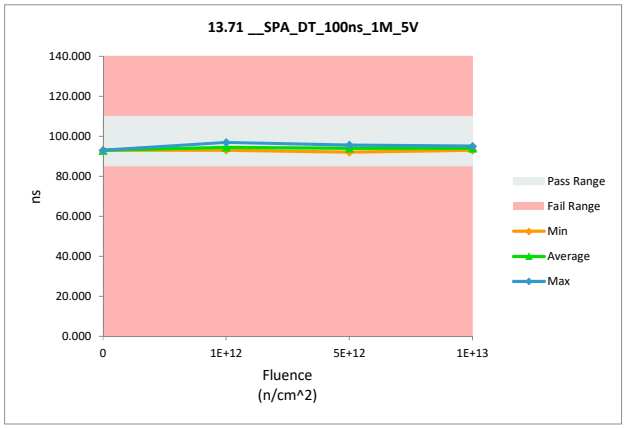
	13.71 __SPA_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	92.956	92.973	0.017
1E+12	45	93.486	93.519	0.033
1E+12	46	92.981	93.029	0.048
1E+12	54	96.971	96.968	-0.003
5E+12	57	94.345	94.148	-0.197
5E+12	58	91.981	92.118	0.137
5E+12	60	95.681	95.605	-0.076
1E+13	62	93.288	93.090	-0.198
1E+13	65	95.150	95.000	-0.150
1E+13	66	93.984	93.884	-0.100
	Max	96.971	96.968	0.137
	Average	94.082	94.033	-0.049
	Min	91.981	92.118	-0.198
	Std Dev	1.491	1.453	0.113



	13.71 __SPA_DT_100ns_1M_5	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	85	ns

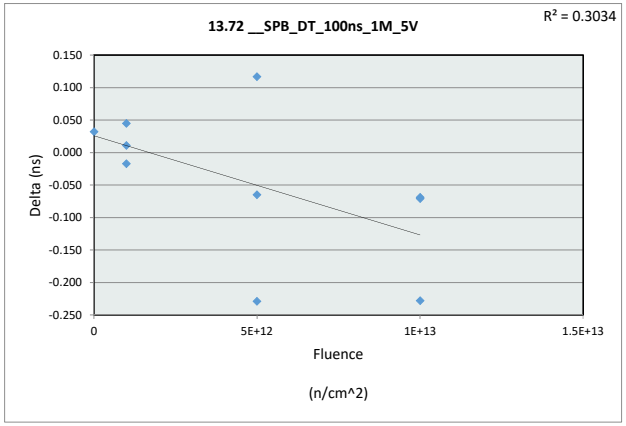
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	92.973	93.029	92.118	93.090
Average	92.973	94.505	93.957	93.991
Max	92.973	96.968	95.605	95.000
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

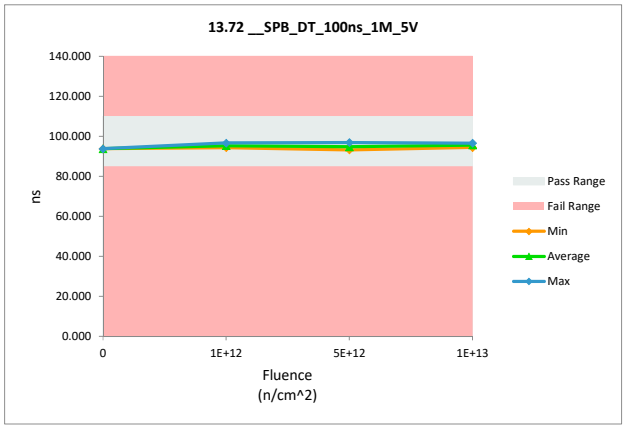
	13.72 __SPB_DT_100ns_1M_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	93.740	93.772	0.032
1E+12	45	94.776	94.821	0.045
1E+12	46	94.389	94.400	0.011
1E+12	54	96.612	96.595	-0.017
5E+12	57	93.385	93.156	-0.229
5E+12	58	93.815	93.932	0.117
5E+12	60	97.002	96.937	-0.065
1E+13	62	94.593	94.365	-0.228
1E+13	65	96.600	96.531	-0.069
1E+13	66	96.127	96.056	-0.071
	Max	97.002	96.937	0.117
	Average	95.104	95.056	-0.047
	Min	93.385	93.156	-0.229
	Std Dev	1.355	1.357	0.112



	13.72 __SPB_DT_100ns_1M_5	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	85	ns

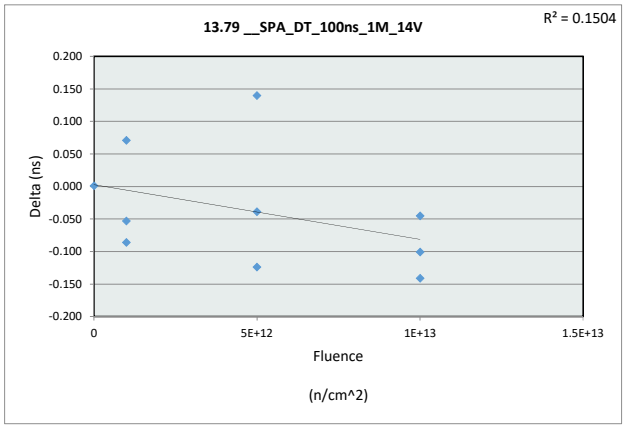
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	93.772	94.400	93.156	94.365
Average	93.772	95.272	94.675	95.651
Max	93.772	96.595	96.937	96.531
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

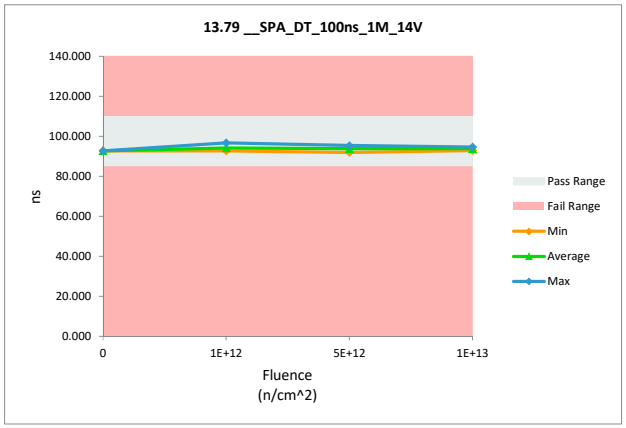
	13.79 __SPA_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	92.661	92.662	0.001
1E+12	45	93.255	93.326	0.071
1E+12	46	92.790	92.704	-0.086
1E+12	54	96.766	96.713	-0.053
5E+12	57	94.077	93.953	-0.124
5E+12	58	91.790	91.930	0.140
5E+12	60	95.368	95.329	-0.039
1E+13	62	92.965	92.864	-0.101
1E+13	65	94.763	94.622	-0.141
1E+13	66	93.730	93.685	-0.045
	Max	96.766	96.713	0.140
	Average	93.817	93.779	-0.038
	Min	91.790	91.930	-0.141
	Std Dev	1.476	1.439	0.088



	13.79 __SPA_DT_100ns_1M_1			
Test Site				
Tester				
Test Number				
Max Limit	110	ns		
Min Limit	85	ns		

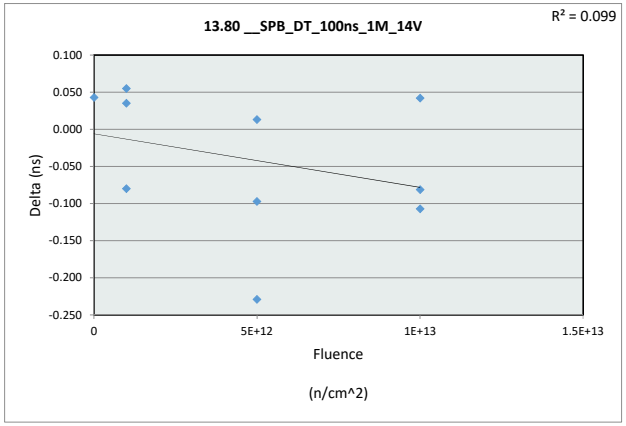
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	92.662	92.704	91.930	92.864
Average	92.662	94.248	93.737	93.724
Max	92.662	96.713	95.329	94.622
UL	110.000	110.000	110.000	110.000



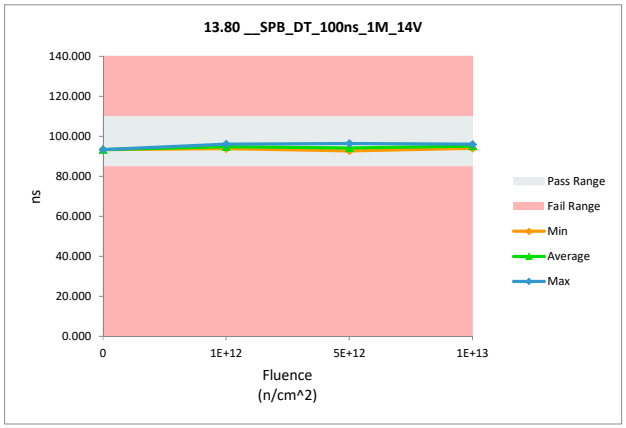
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.80 __SPB_DT_100ns_1M_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	93.285	93.328	0.043
1E+12	45	94.327	94.362	0.035
1E+12	46	93.792	93.847	0.055
1E+12	54	96.135	96.055	-0.080
5E+12	57	92.909	92.680	-0.229
5E+12	58	93.338	93.351	0.013
5E+12	60	96.496	96.399	-0.097
1E+13	62	94.123	94.016	-0.107
1E+13	65	96.045	95.964	-0.081
1E+13	66	95.535	95.577	0.042
	Max	96.496	96.399	0.055
	Average	94.599	94.558	-0.041
	Min	92.909	92.680	-0.229
	Std Dev	1.335	1.332	0.093



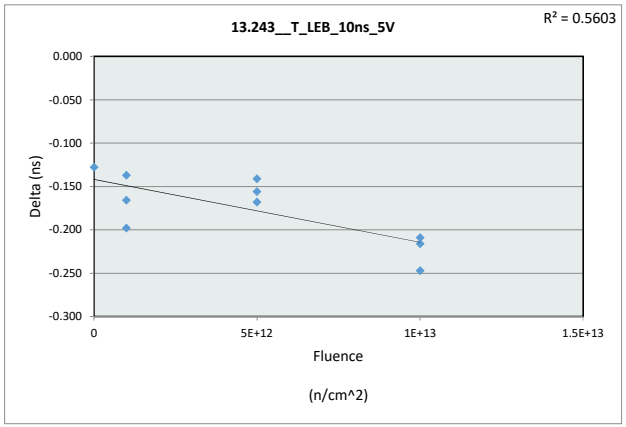
	13.80 __SPB_DT_100ns_1M_1			
Test Site				
Tester				
Test Number				
Max Limit	110	ns		
Min Limit	85	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	93.328	93.847	92.680	94.016
Average	93.328	94.755	94.143	95.186
Max	93.328	96.055	96.399	95.964
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

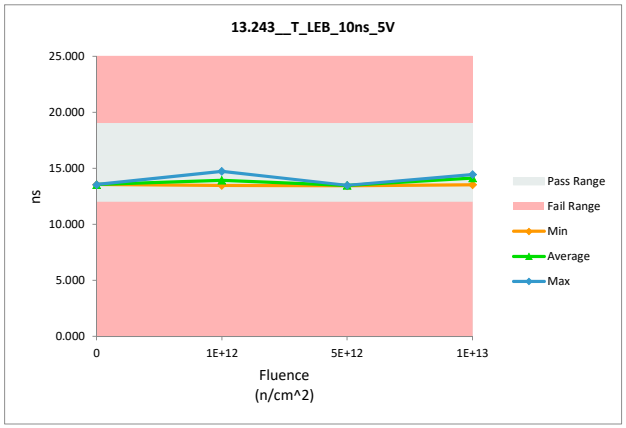
	13.243__T_LEB_10ns_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	19	19
Min Limit	12	12

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	13.669	13.541	-0.128
1E+12	45	13.741	13.575	-0.166
1E+12	46	14.855	14.718	-0.137
1E+12	54	13.671	13.473	-0.198
5E+12	57	13.656	13.488	-0.168
5E+12	58	13.599	13.458	-0.141
5E+12	60	13.593	13.437	-0.156
1E+13	62	14.659	14.443	-0.216
1E+13	65	13.751	13.542	-0.209
1E+13	66	14.672	14.425	-0.247
	Max	14.855	14.718	-0.128
	Average	13.987	13.810	-0.177
	Min	13.593	13.437	-0.247
	Std Dev	0.517	0.504	0.039



	13.243__T_LEB_10ns_5V			
Test Site				
Tester				
Test Number				
Max Limit	19	ns		
Min Limit	12	ns		

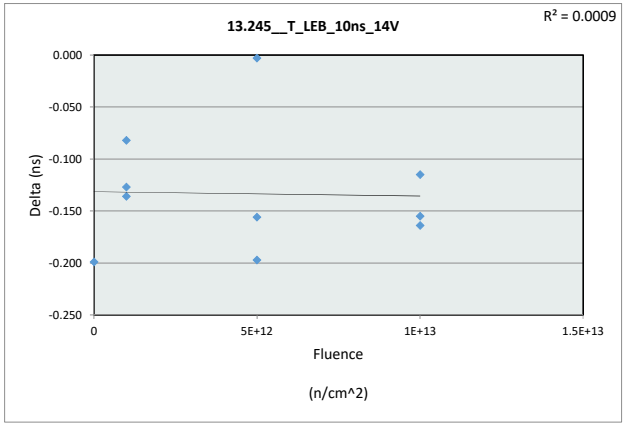
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	13.541	13.473	13.437	13.542
Average	13.541	13.922	13.461	14.137
Max	13.541	14.718	13.488	14.443
UL	19.000	19.000	19.000	19.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

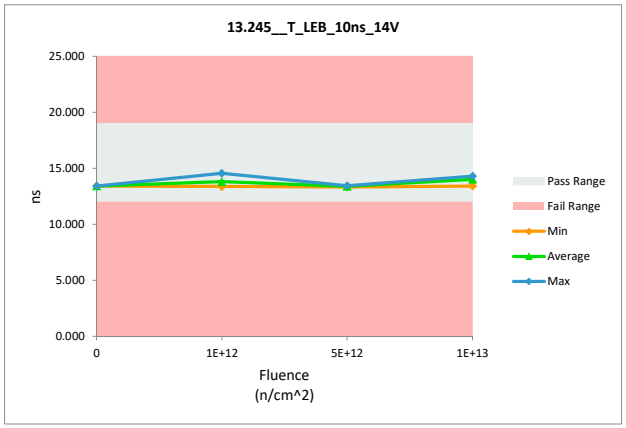
	13.245__T_LEB_10ns_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	19	19
Min Limit	12	12

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	13.603	13.404	-0.199
1E+12	45	13.587	13.451	-0.136
1E+12	46	14.651	14.569	-0.082
1E+12	54	13.490	13.363	-0.127
5E+12	57	13.442	13.439	-0.003
5E+12	58	13.535	13.379	-0.156
5E+12	60	13.522	13.325	-0.197
1E+13	62	14.465	14.301	-0.164
1E+13	65	13.567	13.412	-0.155
1E+13	66	14.417	14.302	-0.115
	Max	14.651	14.569	-0.003
	Average	13.828	13.694	-0.133
	Min	13.442	13.325	-0.199
	Std Dev	0.477	0.487	0.058



	13.245__T_LEB_10ns_14V			
Test Site				
Tester				
Test Number				
Max Limit	19	ns		
Min Limit	12	ns		

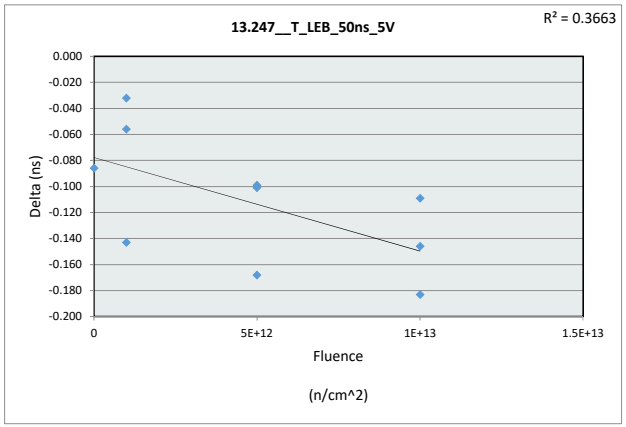
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	12.000	12.000	12.000	12.000
Min	13.404	13.363	13.325	13.412
Average	13.404	13.794	13.381	14.005
Max	13.404	14.569	13.439	14.302
UL	19.000	19.000	19.000	19.000



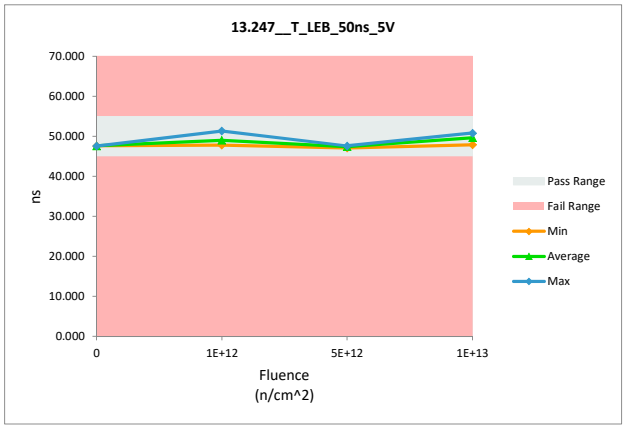
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.247__T_LEB_50ns_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	45	45

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	47.672	47.586	-0.086
1E+12	45	47.962	47.930	-0.032
1E+12	46	51.457	51.314	-0.143
1E+12	54	47.832	47.776	-0.056
5E+12	57	47.693	47.594	-0.099
5E+12	58	47.255	47.087	-0.168
5E+12	60	47.623	47.522	-0.101
1E+13	62	50.901	50.792	-0.109
1E+13	65	48.045	47.862	-0.183
1E+13	66	50.363	50.217	-0.146
	Max	51.457	51.314	-0.032
	Average	48.680	48.568	-0.112
	Min	47.255	47.087	-0.183
	Std Dev	1.572	1.561	0.048



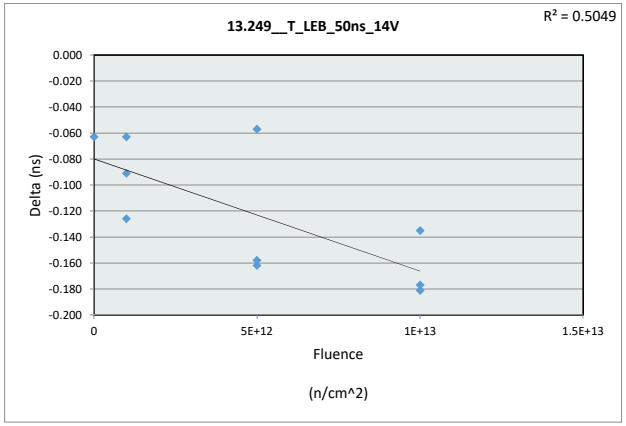
	13.247__T_LEB_50ns_5V			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	45	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	45.000	45.000	45.000	45.000
Min	47.586	47.776	47.087	47.862
Average	47.586	49.007	47.401	49.624
Max	47.586	51.314	47.594	50.792
UL	55.000	55.000	55.000	55.000



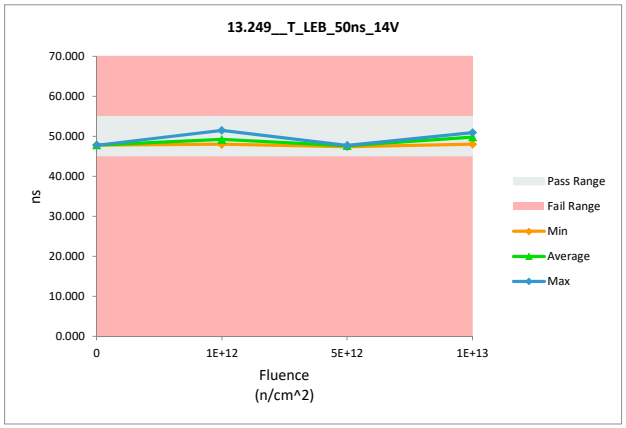
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.249__T_LEB_50ns_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	55	55
Min Limit	45	45

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	47.853	47.790	-0.063
1E+12	45	48.200	48.109	-0.091
1E+12	46	51.625	51.499	-0.126
1E+12	54	48.040	47.977	-0.063
5E+12	57	47.917	47.755	-0.162
5E+12	58	47.447	47.390	-0.057
5E+12	60	47.854	47.696	-0.158
1E+13	62	51.038	50.903	-0.135
1E+13	65	48.244	48.067	-0.177
1E+13	66	50.586	50.405	-0.181
	Max	51.625	51.499	-0.057
	Average	48.880	48.759	-0.121
	Min	47.447	47.390	-0.181
	Std Dev	1.555	1.538	0.049



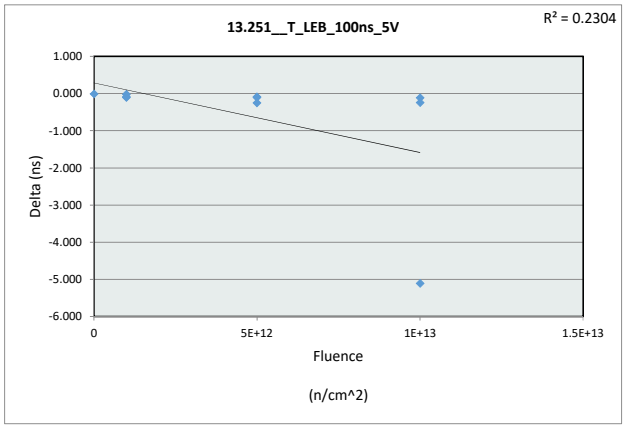
	13.249__T_LEB_50ns_14V			
Test Site				
Tester				
Test Number				
Max Limit	55	ns		
Min Limit	45	ns		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	45.000	45.000	45.000	45.000
Min	47.790	47.977	47.390	48.067
Average	47.790	49.195	47.614	49.792
Max	47.790	51.499	47.755	50.903
UL	55.000	55.000	55.000	55.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

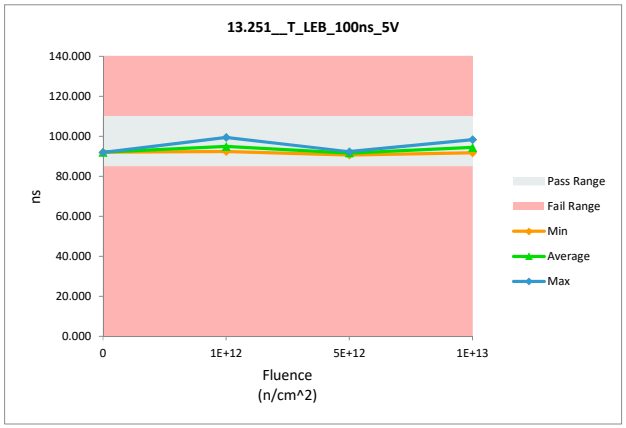
	13.251__T_LEB_100ns_5V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	91.987	91.978	-0.009
1E+12	45	92.990	92.887	-0.103
1E+12	46	99.540	99.453	-0.087
1E+12	54	92.364	92.341	-0.023
5E+12	57	92.395	92.306	-0.089
5E+12	58	90.887	90.633	-0.254
5E+12	60	92.082	91.975	-0.107
1E+13	62	98.373	98.258	-0.115
1E+13	65	93.347	93.104	-0.243
1E+13	66	96.857	91.754	-5.103
	Max	99.540	99.453	-0.009
	Average	94.082	93.469	-0.613
	Min	90.887	90.633	-5.103
	Std Dev	3.019	2.930	1.580



	13.251__T_LEB_100ns_5V			
Test Site				
Tester				
Test Number				
Max Limit	110	ns		
Min Limit	85	ns		

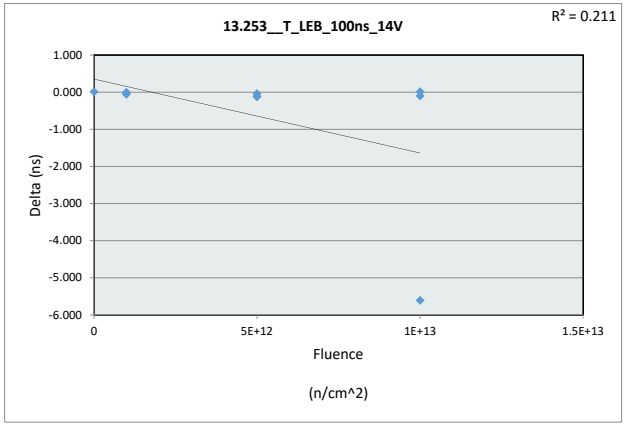
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	91.978	92.341	90.633	91.754
Average	91.978	94.894	91.638	94.372
Max	91.978	99.453	92.306	98.258
UL	110.000	110.000	110.000	110.000



Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

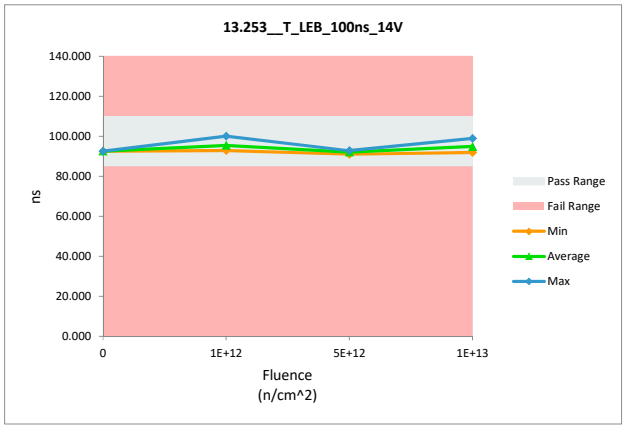
	13.253__T_LEB_100ns_14V	
Test Site		
Tester		
Test Number		
Unit	ns	ns
Max Limit	110	110
Min Limit	85	85

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	92.522	92.534	0.012
1E+12	45	93.457	93.453	-0.004
1E+12	46	100.163	100.110	-0.053
1E+12	54	92.927	92.907	-0.020
5E+12	57	92.929	92.817	-0.112
5E+12	58	91.092	91.051	-0.041
5E+12	60	92.558	92.440	-0.118
1E+13	62	98.957	98.969	0.012
1E+13	65	93.750	93.648	-0.102
1E+13	66	97.490	91.888	-5.602
	Max	100.163	100.110	0.012
	Average	94.585	93.982	-0.603
	Min	91.092	91.051	-5.602
	Std Dev	3.104	3.033	1.757



	13.253__T_LEB_100ns_14V	
Test Site		
Tester		
Test Number		
Max Limit	110	ns
Min Limit	85	ns

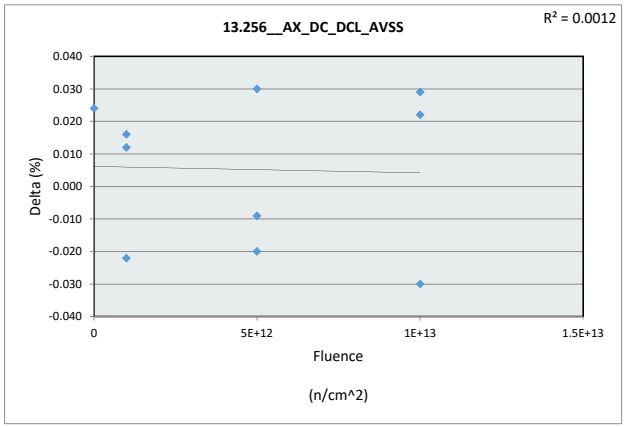
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	85.000	85.000	85.000	85.000
Min	92.534	92.907	91.051	91.888
Average	92.534	95.490	92.103	94.835
Max	92.534	100.110	92.817	98.969
UL	110.000	110.000	110.000	110.000



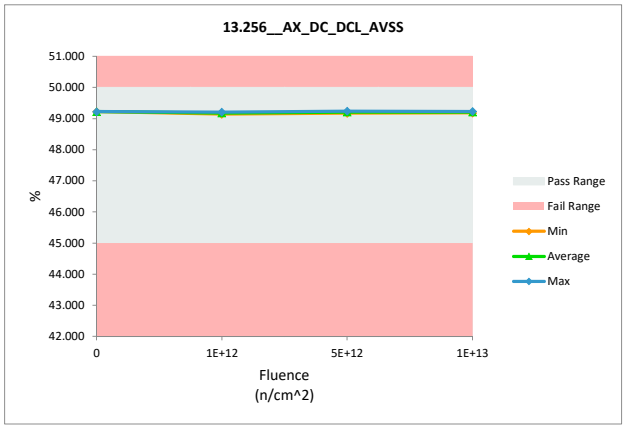
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.256__AX_DC_DCL_AVSS	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	50	50
Min Limit	45	45

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	49.197	49.221	0.024
1E+12	45	49.190	49.206	0.016
1E+12	46	49.176	49.188	0.012
1E+12	54	49.161	49.139	-0.022
5E+12	57	49.189	49.169	-0.020
5E+12	58	49.242	49.233	-0.009
5E+12	60	49.171	49.201	0.030
1E+13	62	49.232	49.202	-0.030
1E+13	65	49.157	49.179	0.022
1E+13	66	49.193	49.222	0.029
	Max	49.242	49.233	0.030
	Average	49.191	49.196	0.005
	Min	49.157	49.139	-0.030
	Std Dev	0.028	0.028	0.023



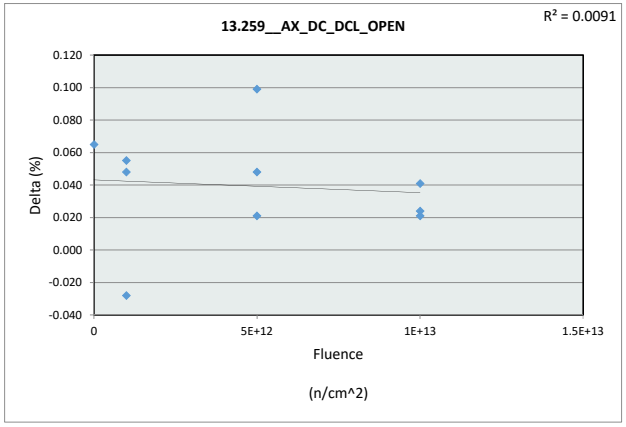
	13.256__AX_DC_DCL_AVSS			
Test Site				
Tester				
Test Number				
Max Limit	50	%		
Min Limit	45	%		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	45.000	45.000	45.000	45.000
Min	49.221	49.139	49.169	49.179
Average	49.221	49.178	49.201	49.201
Max	49.221	49.206	49.233	49.222
UL	50.000	50.000	50.000	50.000



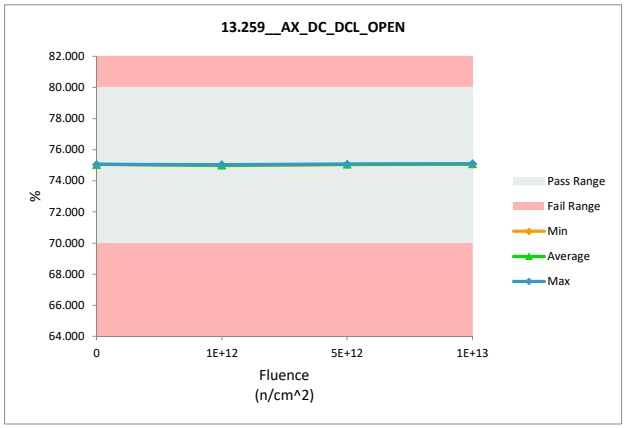
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.259__AX_DC_DCL_OPEN	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	80	80
Min Limit	70	70

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	74.975	75.040	0.065
1E+12	45	74.953	75.008	0.055
1E+12	46	74.988	75.036	0.048
1E+12	54	74.998	74.970	-0.028
5E+12	57	74.986	75.034	0.048
5E+12	58	75.041	75.062	0.021
5E+12	60	74.961	75.060	0.099
1E+13	62	75.035	75.059	0.024
1E+13	65	75.040	75.061	0.021
1E+13	66	75.061	75.102	0.041
	Max	75.061	75.102	0.099
	Average	75.004	75.043	0.039
	Min	74.953	74.970	-0.028
	Std Dev	0.038	0.036	0.033



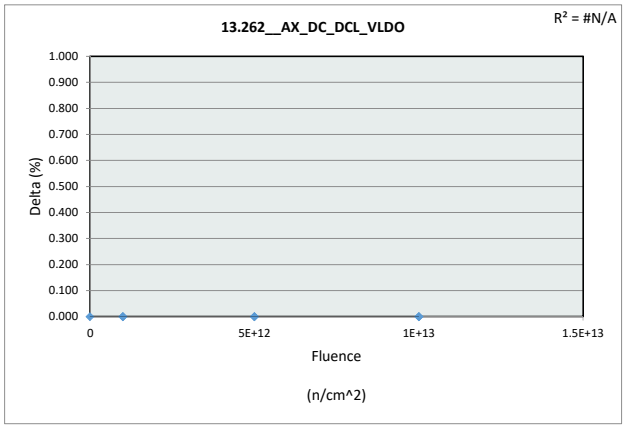
	13.259__AX_DC_DCL_OPEN			
Test Site				
Tester				
Test Number				
Max Limit	80	%		
Min Limit	70	%		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL	70.000	70.000	70.000	70.000
Min	75.040	74.970	75.034	75.059
Average	75.040	75.005	75.052	75.074
Max	75.040	75.036	75.062	75.102
UL	80.000	80.000	80.000	80.000



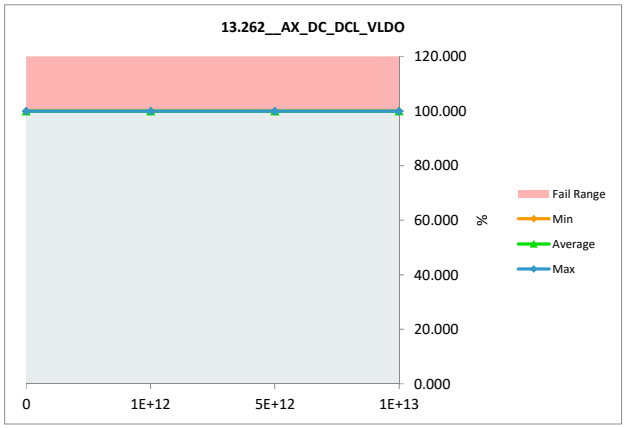
Neutron Displacement Damage (NDD) Report
TPS7H5001-SP

	13.262__AX_DC_DCL_VLDO	
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	100	100
Min Limit		

Fluence (n/cm^2)	Serial #	PRE_NDD	POST_NDD	Delta
0	68	100.000	100.000	0.000
1E+12	45	100.000	100.000	0.000
1E+12	46	100.000	100.000	0.000
1E+12	54	100.000	100.000	0.000
5E+12	57	100.000	100.000	0.000
5E+12	58	100.000	100.000	0.000
5E+12	60	100.000	100.000	0.000
1E+13	62	100.000	100.000	0.000
1E+13	65	100.000	100.000	0.000
1E+13	66	100.000	100.000	0.000
	Max	100.000	100.000	0.000
	Average	100.000	100.000	0.000
	Min	100.000	100.000	0.000
	Std Dev	0.000	0.000	0.000



	13.262__AX_DC_DCL_VLDO			
Test Site				
Tester				
Test Number				
Max Limit	100	%		
Min Limit		%		
Fluence (n/cm^2)	0	1E+12	5E+12	1E+13
LL				
Min	100.000	100.000	100.000	100.000
Average	100.000	100.000	100.000	100.000
Max	100.000	100.000	100.000	100.000
UL	100.000	100.000	100.000	100.000



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