

TPS7H2201-SP Neutron Displacement Damage Characterization

ABSTRACT

This report presents the effect of neutron displacement damage (NDD) on the TPS7H2201-SP device. The results show that all devices were fully functional and within production test limits after having been irradiated up to 1×10^{13} n/cm² (1-MeV equivalent). A sample size of nine units was exposed to radiation testing (per MIL-STD-883, Method 1017 for Neutron Irradiation) and an additional unirradiated sample device was used for correlation. All devices used in the experiment were from lot date code 1846A and assembly lot 8010043. Electrical testing was performed at Texas Instruments before and after neutron irradiation using the production test program for TPS7H2201-SP.

Contents

1	Overview	2
2	Test Procedures	3
3	Facility	3
4	Results	3
Appendix A Test Results		5

List of Figures

1	TPS7H2201-SP Device	2
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List of Tables

1	Overview Information.....	2
2	Neutron Irradiation Conditions	3
3	TPS7H2201-SP Specification Compliance Matrix.....	3

Trademarks

1 Overview

The TPS7H2201-SP is a single channel load switch that provides configurable rise time to minimize inrush current and reverse current protection. The device contains an P-channel MOSFET that can operate over an input voltage range of 1.5 V to 7 V and can support a maximum continuous current of 6 A. The switch is controlled by an on and off input (EN), which is capable of interfacing directly with low-voltage control signals.

General device information and testing conditions are listed in [Table 1](#).

Table 1. Overview Information

TI Part Number	TPS7H2201-SP
SMD Number	5962R1722001VXC
Device Function	Single Channel Load Switch
Die Name	RTPS7H22012VM
Technology	LBC7
A/T Lot Number / Date Code	8010043/1846A
Unbiased Quantity Tested	9
Exposure Facility	VPT Rad
Neutron Fluence (1-MeV equivalent)	1.0×10^{12} , 5.0×10^{12} , 1.0×10^{13} n/cm ²
Irradiation Temperature	25°C

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Figure 1. TPS7H2201-SP Device

2 Test Procedures

The TPS7H2201-SP was electrically pre-tested using the production automated test equipment program. General test procedures were IAW MIL-STD-883, Method 1017 for Neutron Irradiation of TPS7H2201-SP.

Table 2. Neutron Irradiation Conditions

Group	Sample Qty	Neutron Fluence (n/cm ²)	Bias
A	3	1.0×10^{12}	Unbiased
B	3	5.0×10^{12}	Unbiased
C	3	1.0×10^{13}	Unbiased

3 Facility

Devices were irradiated at The University of Massachusetts's Fast Neutron Irradiation (FNI) facility. The facility is designed to give a fast flux level $\geq 10^{11}$ n / cm² –s, with relatively low thermal fluence and gamma dose rates. Samples with a cross-sectional area as large as 30 cm (12 in) × 30 cm (12 in) and up to 15-cm (6-in) thick can be irradiated. The fast neutron flux is designed to be nearly uniform over the 30-cm (12-in) × 30-cm (12-in) area facing the core, and the fast fluence variation through the sample thickness is minimized via a single 180° rotation of the sample canister at the midpoint of the irradiation period. The FNI facility offers a significantly larger sample volume than previously available within the University of Massachusetts Lowell Research Reactor (UMLRR).

The fluences are calculated based on 1-MeV equivalences.

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

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

4 Results

There were no functional failures at any irradiation level. All parametric measurements remained well within all data sheet (SLVSD00) limits for all exposure levels. All parametric measurements remained well within the production test limits which are guard-banded from the data sheet limits. The full parameter list and graphs are found in [Appendix A](#).

[Table 3](#) lists the TPS7H2201-SP specification compliance matrix.

Table 3. TPS7H2201-SP Specification Compliance Matrix

Parameter	Test Condition	TPS7H2201-SP Data Sheet (SLVSD00)				Test #
		MIN	TYP	MAX	Unit	
Quiescent current	IOUT = 0 mA, VIN = EN = 5 V, CS resistor of 20 kΩ to GND		2	6.5	mA	3.x
VIN to VOUT forward leakage current				3	mA	4.x
VIN off-state supply current	EN = GND, VOUT = 0 V, VIN = 5V		0.125	3	mA	4.x
	EN = GND, VOUT = 0 V, VIN = 3.3V		0.075	3	mA	4.x
	EN = GND, VOUT = 0 V, VIN = 1.8V		0.050	3	mA	4.x
Reverse current protection leakage current	EN = 0 V, VIN = 0 to 7 V VOUT = 0 to 7 V for VOUT > VIN			2.5	mA	3.x
	EN = 7 V, VIN = 0 V VOUT = 0 to 7 V			2.5	mA	3.x
Soft start charge current			65	83	μA	6.x
EN/UVLO threshold voltage, rising			0.61	0.65	V	6.x
EN/UVLO threshold voltage, falling		0.47	0.51		V	6.x
EN/UVLO hysteresis voltage			93	124	mV	6.x
EN pin input leakage current	EN = VIN = 5 V			12	nA	6.x

Table 3. TPS7H2201-SP Specification Compliance Matrix (continued)

Parameter	Test Condition	TPS7H2201-SP Data Sheet (SLVSD00)				Test #
		MIN	TYP	MAX	Unit	
OVPR threshold voltage, rising			0.57	0.63	V	7.x
OVPF threshold voltage, falling		0.5	0.55		V	7.x
OVP hysteresis voltage	1.6 V < VIN < 7 V		20	55	mV	7.x
OVP pin input leakage current				15	nA	7.x
Time for valid CS output after enable, tCSEN	CSS=120 nF			5	ms	13.x
Minimum VOUT current for valid CS output		750			mA	9.x
VOUT current change to CS change delay time				74	µs	22.x
CS pin accuracy	0.75 A ≤ IVOUT ≤ 7.5 A	-10		+10	%	9.x
CS pin voltage	0.75 A ≤ IVOUT ≤ 7.5 A, no OCP			VIN-0.4	V	14.x
Current limit setting, IIL	IVOUT ≤ 1 A	IVOUT +0.5			A	30.x
	1 A < IVOUT ≤ 3 A	IVOUT +1			A	30.x
	IVOUT > 3 A	IVOUT +1.5			A	30.x
Programmable current limit accuracy	VIN = 5 V	-20		+20	%	30.x, 10.x
ILTIMER charge current		0.7	1	1.38	µA	12.x
ILTIMER internal pull-down resistance			38	153	Ω	35.x
RTIMER charge current		0.7	1	1.38	µA	12.x
RTIMER internal pull-down resistance			38	153	Ω	35.x
ON-state resistance, lead length = 2.5 mm	VIN = 7 V, IIL=7.5 A		31	34	Ω	8.x
	VIN = 5 V, IIL=7.5 A		32	35	Ω	8.x
	VIN = 3.3 V, IIL=7.5 A		35	38	Ω	8.x
	VIN = 1.8 V, IIL=7.5 A		45	51	Ω	8.x
	VIN = 1.5 V, IIL=7.5 A		52	63	Ω	8.x

Test Results

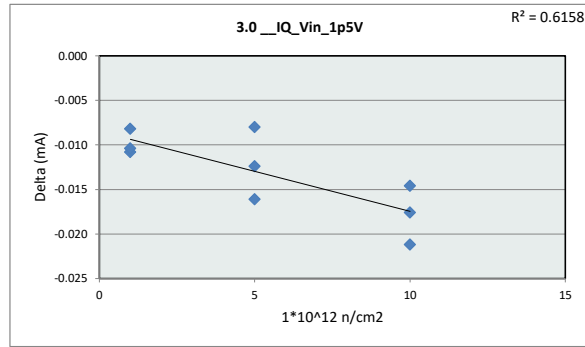
Appendix A contains the detailed test results.

Note that units on the x-axis of both graphs are 10^{12} n/cm². Data points shown correspond to 1×10^{12} n/cm², 5×10^{12} n/cm², and 1×10^{13} n/cm².

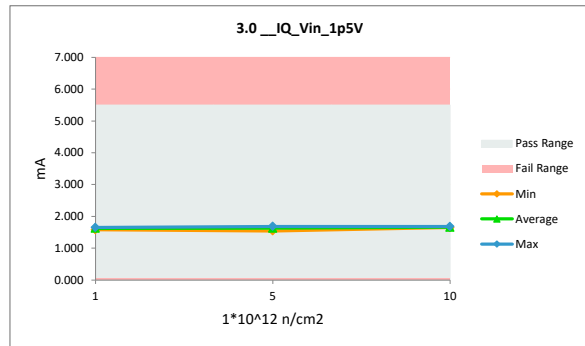
NDD Report
TPS7H2201-SP

NDD Report
TPS7H2201-SP

3.0_IQ_Vin_1p5V				
Test Site				
Tester				
Test Number				
Unit	mA	mA		
Max Limit	5.5	5.5		
Min Limit	0.05	0.05		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	1.641	1.649	-0.008
1	274	1.569	1.580	-0.011
1	275	1.637	1.647	-0.010
5	276	1.535	1.543	-0.008
5	277	1.645	1.658	-0.012
5	290	1.669	1.685	-0.016
10	291	1.634	1.648	-0.015
10	292	1.661	1.682	-0.021
10	293	1.630	1.647	-0.018
Max		1.669	1.685	-0.008
Average		1.624	1.638	-0.013
Min		1.535	1.543	-0.021
Std Dev		0.044	0.047	0.004

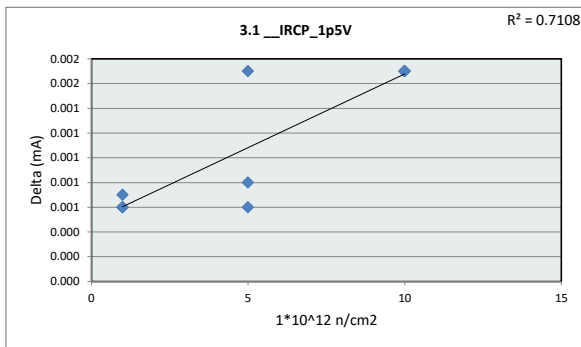


3.0_IQ_Vin_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	5.5	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm2	1	5	10
LL	0.050	0.050	0.050
Min	1.580	1.543	1.647
Average	1.625	1.629	1.659
Max	1.649	1.685	1.682
UL	5.500	5.500	5.500

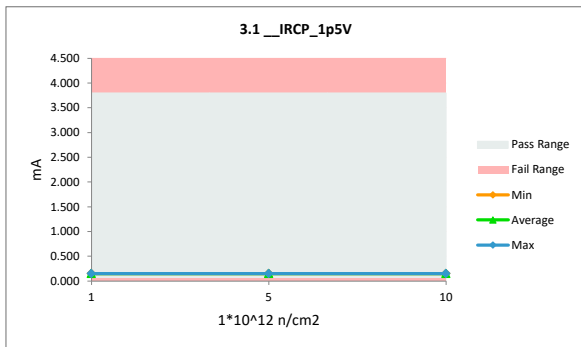


NDD Report
TPS7H2201-SP

3.1_IRCP_1p5V				
Test Site				
Tester				
Test Number				
Unit	mA	mA		
Max Limit	3.8	3.8		
Min Limit	0.05	0.05		
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	0.152	0.151	0.001
1	274	0.150	0.149	0.001
1	275	0.152	0.151	0.001
5	276	0.149	0.149	0.001
5	277	0.151	0.150	0.001
5	290	0.153	0.151	0.002
10	291	0.153	0.151	0.002
10	292	0.153	0.152	0.002
10	293	0.153	0.151	0.002
Max		0.153	0.152	0.002
Average		0.152	0.151	0.001
Min		0.149	0.149	0.001
Std Dev		0.001	0.001	0.001

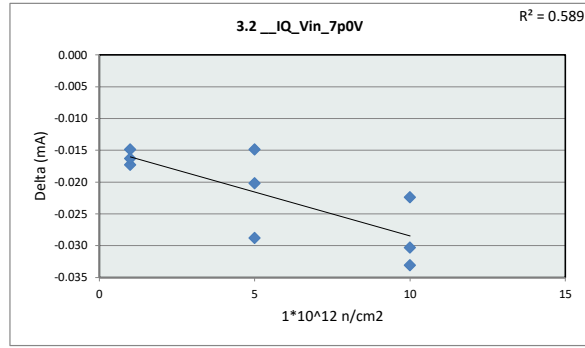


3.1_IRCP_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	3.8	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm ²	1	5	10
LL	0.050	0.050	0.050
Min	0.149	0.149	0.151
Average	0.150	0.150	0.151
Max	0.151	0.151	0.152
UL	3.800	3.800	3.800

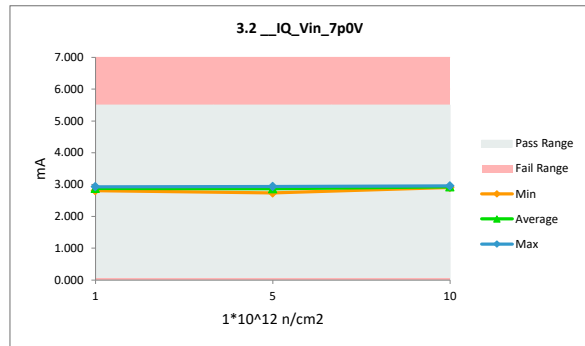


NDD Report
TPS7H2201-SP

3.2_IQ_Vin_7p0V				
Test Site				
Tester				
Test Number				
Unit	mA	mA		
Max Limit	5.5	5.5		
Min Limit	0.05	0.05		
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	2.915	2.930	-0.015
1	274	2.786	2.803	-0.017
1	275	2.885	2.901	-0.016
5	276	2.719	2.734	-0.015
5	277	2.901	2.921	-0.020
5	290	2.907	2.936	-0.029
10	291	2.882	2.905	-0.022
10	292	2.925	2.958	-0.033
10	293	2.882	2.913	-0.030
	Max	2.925	2.958	-0.015
	Average	2.867	2.889	-0.022
	Min	2.719	2.734	-0.033
	Std Dev	0.069	0.072	0.007

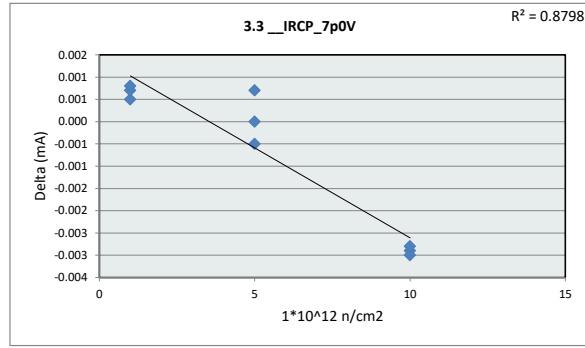


3.2_IQ_Vin_7p0V			
Test Site			
Tester			
Test Number			
Max Limit	5.5	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm ²	1	5	10
LL	0.050	0.050	0.050
Min	2.804	2.734	2.905
Average	2.878	2.864	2.925
Max	2.930	2.936	2.958
UL	5.500	5.500	5.500

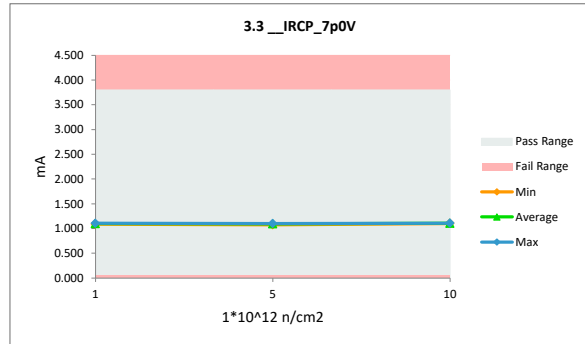


NDD Report
TPS7H2201-SP

3.3_IRCP_7p0V				
Test Site				
Tester				
Test Number				
Unit	mA	mA		
Max Limit	3.8	3.8		
Min Limit	0.05	0.05		
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	1.104	1.103	0.000
1	274	1.089	1.089	0.001
1	275	1.104	1.103	0.001
5	276	1.074	1.074	0.000
5	277	1.101	1.101	0.000
5	290	1.101	1.100	0.001
10	291	1.100	1.103	-0.003
10	292	1.105	1.108	-0.003
10	293	1.100	1.102	-0.003
Max		1.105	1.108	0.001
Average		1.098	1.098	-0.001
Min		1.074	1.074	-0.003
Std Dev		0.010	0.010	0.002



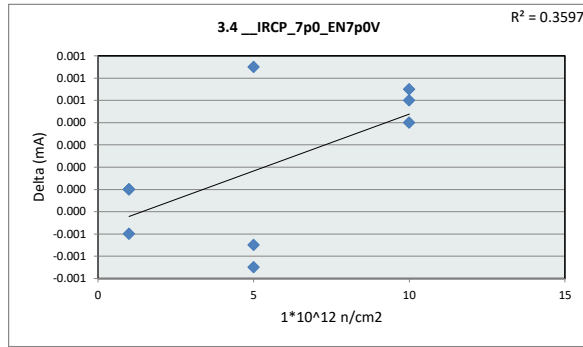
3.3_IRCP_7p0V			
Test Site			
Tester			
Test Number			
Max Limit	3.8	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm ²	1	5	10
LL	0.050	0.050	0.050
Min	1.089	1.075	1.103
Average	1.098	1.092	1.105
Max	1.103	1.101	1.108
UL	3.800	3.800	3.800



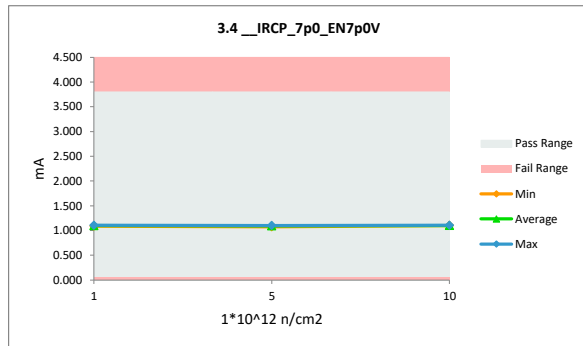
NDD Report
TPS7H2201-SP

3.4_IRCP_7p0_EN7p0V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	3.8
Min Limit	0.05

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	1.103	1.104	-0.001
1	274	1.089	1.089	0.000
1	275	1.103	1.103	0.000
5	276	1.073	1.074	-0.001
5	277	1.101	1.101	-0.001
5	290	1.100	1.099	0.001
10	291	1.100	1.099	0.001
10	292	1.105	1.104	0.001
10	293	1.099	1.099	0.000
Max		1.105	1.104	0.001
Average		1.097	1.097	0.000
Min		1.073	1.074	-0.001
Std Dev		0.010	0.010	0.001

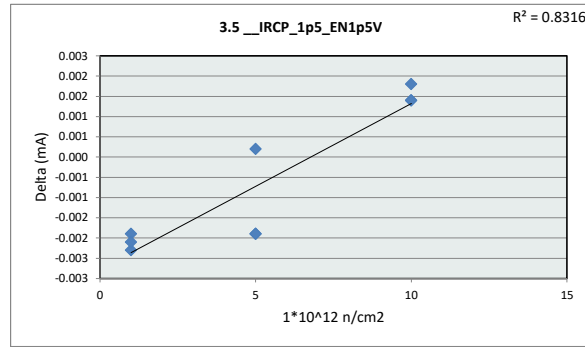


3.4_IRCP_7p0_EN7p0V			
Test Site			
Tester			
Test Number			
Max Limit	3.8	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm2	1	5	10
LL	0.050	0.050	0.050
Min	1.089	1.074	1.099
Average	1.098	1.092	1.101
Max	1.104	1.101	1.104
UL	3.800	3.800	3.800

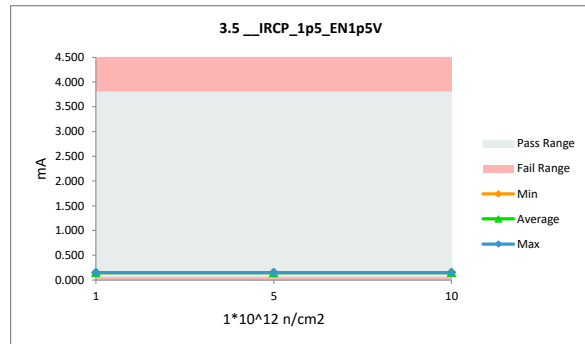


NDD Report TPS7H2201-SP

3.5_IRCP_1p5_EN1p5V				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		3.8	3.8	
Min Limit		0.05	0.05	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.146	0.148	-0.002
1	274	0.145	0.147	-0.002
1	275	0.147	0.149	-0.002
5	276	0.144	0.146	-0.002
5	277	0.146	0.148	-0.002
5	290	0.149	0.149	0.000
10	291	0.150	0.149	0.001
10	292	0.151	0.149	0.001
10	293	0.151	0.149	0.002
Max		0.151	0.149	0.002
Average		0.148	0.148	-0.001
Min		0.144	0.146	-0.002
Std Dev		0.003	0.001	0.002

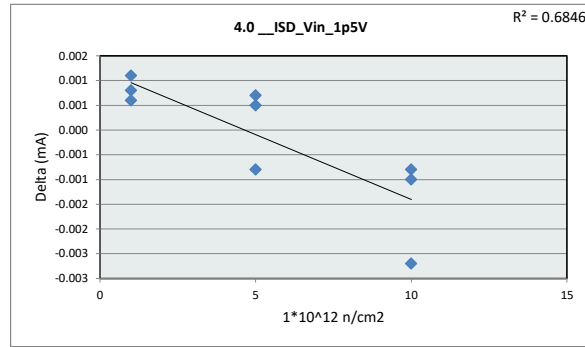


3.5_IRCP_1p5_EN1p5V			
Test Site			
Tester			
Test Number			
Max Limit	3.8	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm2	1	5	10
LL	0.050	0.050	0.050
Min	0.147	0.146	0.149
Average	0.148	0.148	0.149
Max	0.149	0.149	0.149
UL	3.800	3.800	3.800

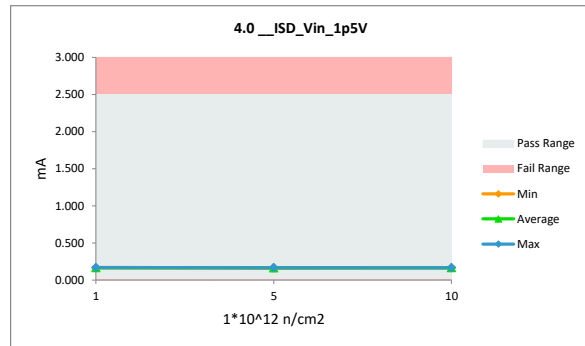


NDD Report
TPS7H2201-SP

		4.0 __ISD_Vin_1p5V		
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		2.5	2.5	
Min Limit		0.01	0.01	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.166	0.166	0.001
1	274	0.163	0.162	0.001
1	275	0.167	0.167	0.001
5	276	0.160	0.159	0.001
5	277	0.167	0.166	0.001
5	290	0.164	0.164	-0.001
10	291	0.165	0.166	-0.001
10	292	0.165	0.166	-0.001
10	293	0.163	0.165	-0.003
Max		0.167	0.167	0.001
Average		0.164	0.165	0.000
Min		0.160	0.159	-0.003
Std Dev		0.002	0.002	0.001



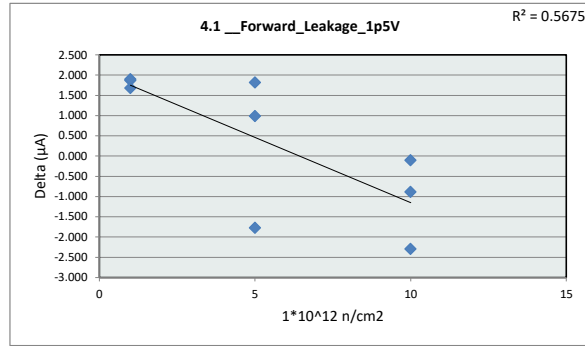
		4.0 __ISD_Vin_1p5V		
Test Site				
Tester				
Test Number				
Max Limit		2.5	mA	
Min Limit		0.01	mA	
1*10 ¹² n/cm2		1	5	10
LL		0.010	0.010	0.010
Min		0.162	0.159	0.165
Average		0.165	0.163	0.166
Max		0.167	0.166	0.166
UL		2.500	2.500	2.500



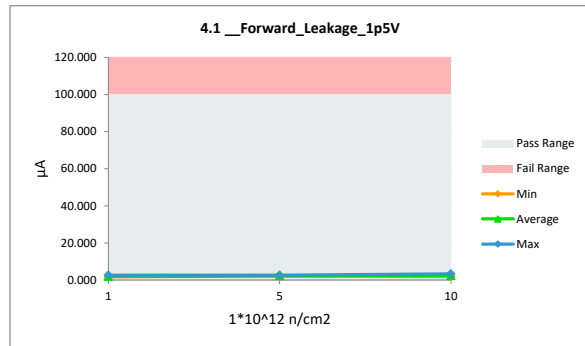
NDD Report
TPS7H2201-SP

4.1 Forward Leakage_1p5V	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	100
Min Limit	0.01

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	4.199	2.522	1.677
1	274	3.571	1.702	1.868
1	275	3.596	1.699	1.898
5	276	4.395	2.578	1.817
5	277	3.138	2.153	0.985
5	290	0.428	2.204	-1.775
10	291	1.832	1.935	-0.103
10	292	1.014	1.903	-0.888
10	293	0.936	3.230	-2.294
Max		4.395	3.230	1.898
Average		2.568	2.214	0.354
Min		0.428	1.699	-2.294
Std Dev		1.524	0.496	1.668

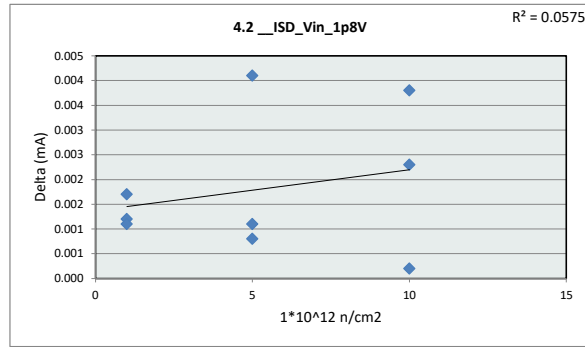


4.1 Forward Leakage_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	100	μA	
Min Limit	0.01	μA	
1*10 ¹² n/cm2	1	5	10
LL	0.010	0.010	0.010
Min	1.699	2.153	1.903
Average	1.974	2.312	2.356
Max	2.522	2.578	3.230
UL	100.000	100.000	100.000

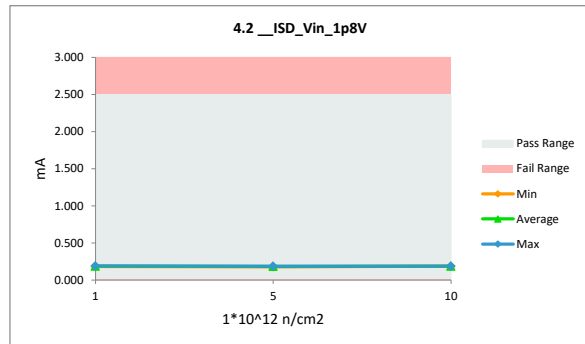


NDD Report
TPS7H2201-SP

4.2 __ISD_Vin_1p8V				
Test Site				
Tester				
Test Number				
Unit	mA	mA		
Max Limit	2.5	2.5		
Min Limit	0.01	0.01		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.188	0.186	0.002
1	274	0.182	0.181	0.001
1	275	0.189	0.188	0.001
5	276	0.180	0.176	0.004
5	277	0.186	0.185	0.001
5	290	0.186	0.185	0.001
10	291	0.188	0.184	0.004
10	292	0.187	0.185	0.002
10	293	0.186	0.186	0.000
Max		0.189	0.188	0.004
Average		0.186	0.184	0.002
Min		0.180	0.176	0.000
Std Dev		0.003	0.004	0.001



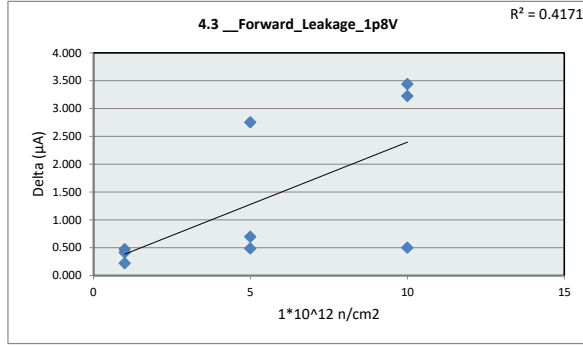
4.2 __ISD_Vin_1p8V			
Test Site			
Tester			
Test Number			
Max Limit	2.5	mA	
Min Limit	0.01	mA	
1*10 ¹² n/cm2	1	5	10
LL	0.010	0.010	0.010
Min	0.181	0.176	0.184
Average	0.185	0.182	0.185
Max	0.188	0.185	0.186
UL	2.500	2.500	2.500



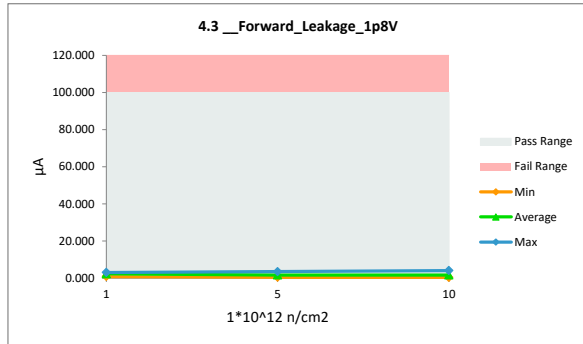
NDD Report
TPS7H2201-SP

4.3 Forward Leakage 1p8V	
Test Site	
Tester	
Test Number	
Unit	µA
Max Limit	100
Min Limit	0.01

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	3.336	2.868	0.469
1	274	0.968	0.751	0.217
1	275	3.421	3.008	0.413
5	276	3.745	0.995	2.750
5	277	0.830	0.346	0.483
5	290	4.094	3.400	0.694
10	291	4.085	0.649	3.437
10	292	3.482	0.261	3.222
10	293	4.508	4.011	0.497
Max		4.508	4.011	3.437
Average		3.163	1.810	1.353
Min		0.830	0.261	0.217
Std Dev		1.338	1.484	1.354

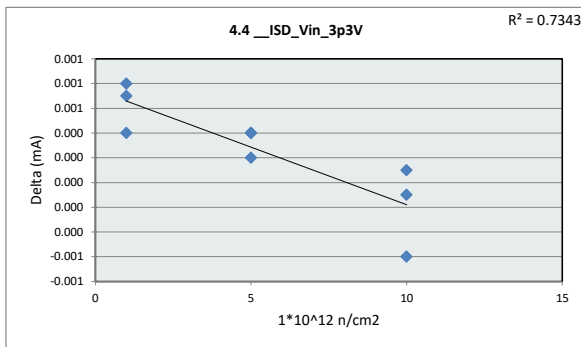


4.3 Forward Leakage 1p8V			
Test Site			
Tester			
Test Number			
Max Limit	100	µA	
Min Limit	0.01	µA	
1*10 ¹² n/cm2	1	5	10
LL	0.010	0.010	0.010
Min	0.751	0.346	0.261
Average	2.209	1.581	1.640
Max	3.008	3.400	4.011
UL	100.000	100.000	100.000

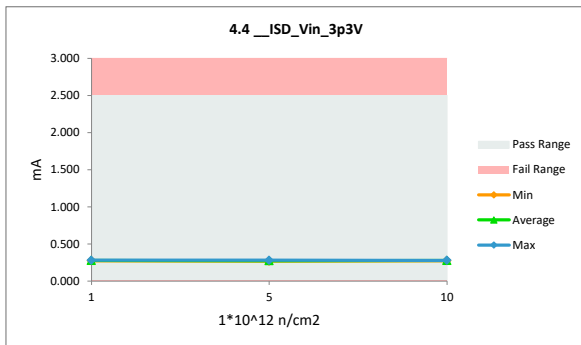


NDD Report
TPS7H2201-SP

4.4_ISD_Vin_3p3V				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		2.5	2.5	
Min Limit		0.01	0.01	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	0.279	0.278	0.001
1	274	0.273	0.273	0.001
1	275	0.279	0.279	0.000
5	276	0.266	0.266	0.000
5	277	0.279	0.279	0.000
5	290	0.276	0.275	0.000
10	291	0.277	0.277	0.000
10	292	0.278	0.278	0.000
10	293	0.273	0.274	-0.001
Max		0.279	0.279	0.001
Average		0.276	0.275	0.000
Min		0.266	0.266	-0.001
Std Dev		0.004	0.004	0.000



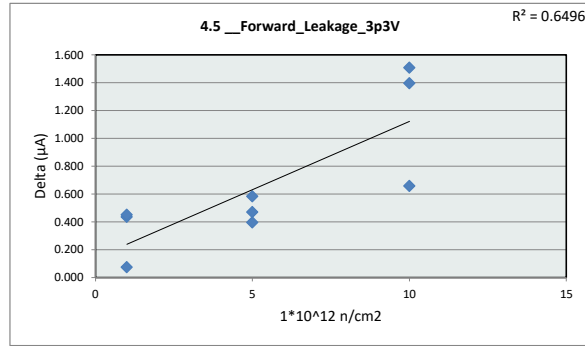
4.4_ISD_Vin_3p3V			
Test Site			
Tester			
Test Number			
Max Limit	2.5	mA	
Min Limit	0.01	mA	
1*10 ¹² n/cm ²	1	5	10
LL	0.010	0.010	0.010
Min	0.273	0.266	0.274
Average	0.277	0.273	0.277
Max	0.279	0.279	0.278
UL	2.500	2.500	2.500



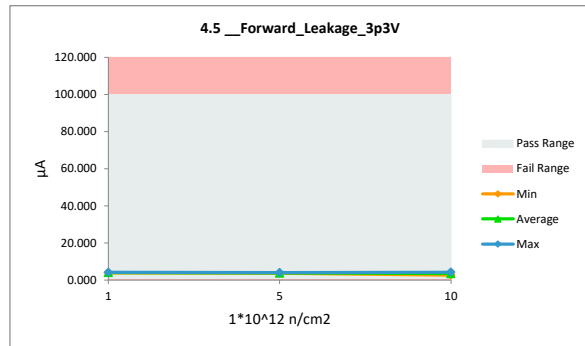
NDD Report
TPS7H2201-SP

4.5 Forward Leakage_3p3V	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	100
Min Limit	0.01

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	4.206	4.132	0.074
1	274	4.362	3.927	0.435
1	275	4.337	3.886	0.451
5	276	4.179	3.595	0.583
5	277	3.965	3.569	0.395
5	290	4.491	4.022	0.469
10	291	4.677	3.281	1.396
10	292	4.165	2.657	1.507
10	293	4.858	4.200	0.658
Max		4.858	4.200	1.507
Average		4.360	3.697	0.663
Min		3.965	2.657	0.074
Std Dev		0.278	0.490	0.476

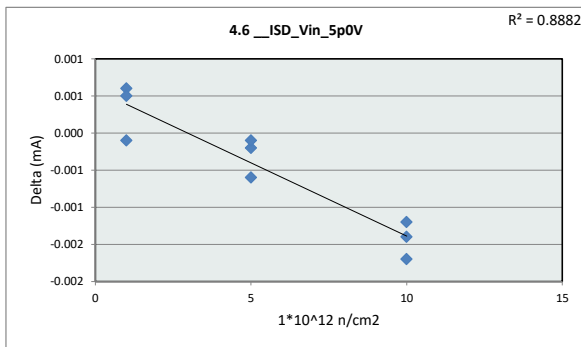


4.5 Forward Leakage_3p3V			
Test Site			
Tester			
Test Number			
Max Limit	100	μA	
Min Limit	0.01	μA	
1*10 ¹² n/cm2	1	5	10
LL	0.010	0.010	0.010
Min	3.886	3.569	2.657
Average	3.982	3.729	3.379
Max	4.132	4.022	4.200
UL	100.000	100.000	100.000

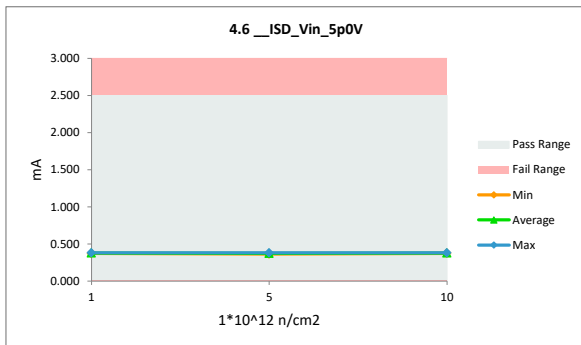


NDD Report
TPS7H2201-SP

		4.6 __ISD_Vin_5p0V		
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		2.5	2.5	
Min Limit		0.01	0.01	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.380	0.379	0.001
1	274	0.372	0.372	0.001
1	275	0.380	0.380	0.000
5	276	0.362	0.362	0.000
5	277	0.380	0.380	0.000
5	290	0.375	0.376	-0.001
10	291	0.377	0.378	-0.001
10	292	0.379	0.380	-0.001
10	293	0.371	0.373	-0.002
Max		0.380	0.380	0.001
Average		0.375	0.376	0.000
Min		0.362	0.362	-0.002
Std Dev		0.006	0.006	0.001

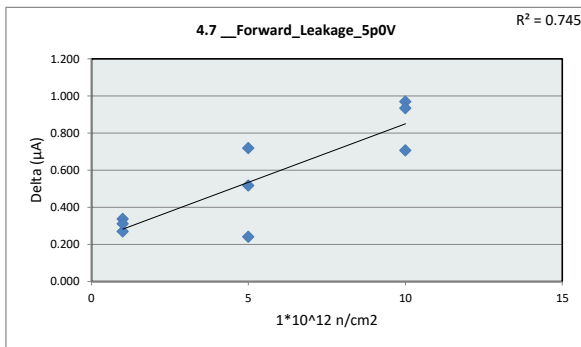


		4.6 __ISD_Vin_5p0V		
Test Site				
Tester				
Test Number				
Max Limit		2.5	mA	
Min Limit		0.01	mA	
1*10 ¹² n/cm2	1	5	10	
LL	0.010	0.010	0.010	
Min	0.372	0.362	0.373	
Average	0.377	0.373	0.377	
Max	0.380	0.380	0.380	
UL	2.500	2.500	2.500	

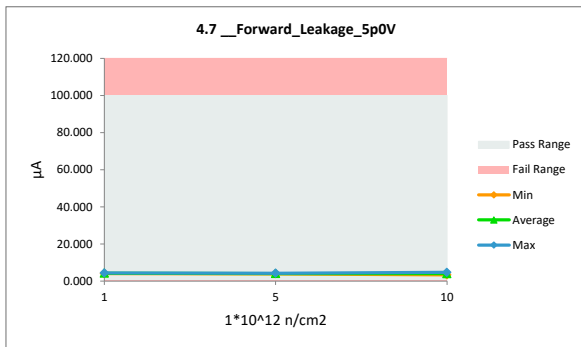


NDD Report
TPS7H2201-SP

4.7 _Forward Leakage_5p0V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		100	100	
Min Limit		0.01	0.01	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	4.600	4.330	0.270
1	274	4.469	4.132	0.337
1	275	4.306	3.995	0.311
5	276	4.526	4.009	0.517
5	277	4.600	3.881	0.719
5	290	4.424	4.183	0.240
10	291	4.903	3.934	0.969
10	292	4.178	3.244	0.934
10	293	5.312	4.606	0.706
	Max	5.312	4.606	0.969
	Average	4.591	4.035	0.556
	Min	4.178	3.244	0.240
	Std Dev	0.339	0.372	0.286

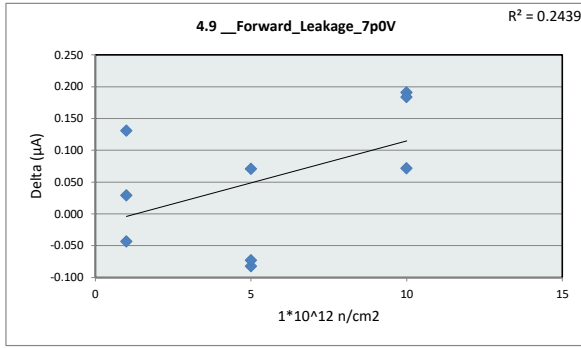


4.7 _Forward Leakage_5p0V			
Test Site			
Tester			
Test Number			
Max Limit	100	µA	
Min Limit	0.01	µA	
1*10 ¹² n/cm2	1	5	10
LL	0.010	0.010	0.010
Min	3.995	3.881	3.244
Average	4.153	4.025	3.928
Max	4.330	4.184	4.606
UL	100.000	100.000	100.000

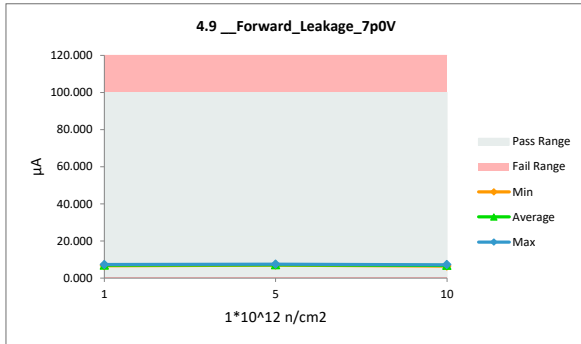


NDD Report
TPS7H2201-SP

4.9 _Forward Leakage_7p0V				
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
	273	7.036	6.906	0.131
	274	7.200	7.171	0.029
	275	6.586	6.629	-0.044
	276	6.952	6.881	0.071
	277	7.351	7.433	-0.082
	290	6.980	7.053	-0.073
	291	6.942	6.870	0.072
	292	6.553	6.362	0.191
	293	7.347	7.163	0.184
	Max	7.351	7.433	0.191
	Average	6.994	6.941	0.053
	Min	6.553	6.362	-0.082
	Std Dev	0.288	0.316	0.104



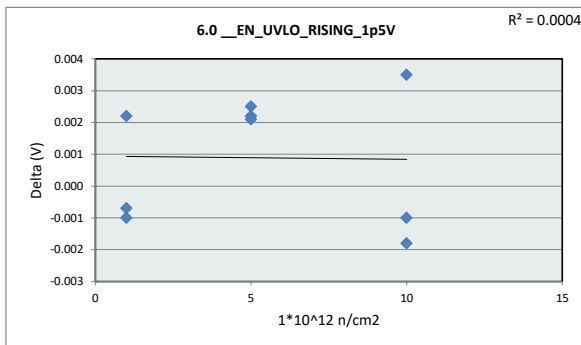
4.9 _Forward Leakage_7p0V			
1*10 ¹² n/cm2	1	5	10
LL	0.010	0.010	0.010
Min	6.630	6.881	6.362
Average	6.902	7.122	6.799
Max	7.171	7.433	7.163
UL	100.000	100.000	100.000



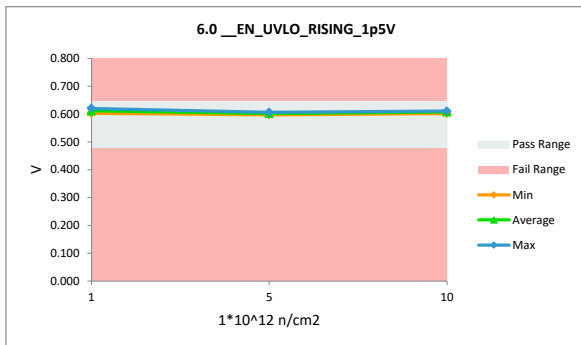
NDD Report
TPS7H2201-SP

6.0_EN_UVLO_RISING_1p5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.645
Min Limit	0.475

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.602	0.602	-0.001
1	274	0.613	0.611	0.002
1	275	0.619	0.620	-0.001
5	276	0.600	0.597	0.002
5	277	0.608	0.606	0.002
5	290	0.604	0.602	0.002
10	291	0.613	0.609	0.004
10	292	0.600	0.602	-0.002
10	293	0.609	0.610	-0.001
Max		0.619	0.620	0.004
Average		0.608	0.607	0.001
Min		0.600	0.597	-0.002
Std Dev		0.007	0.007	0.002

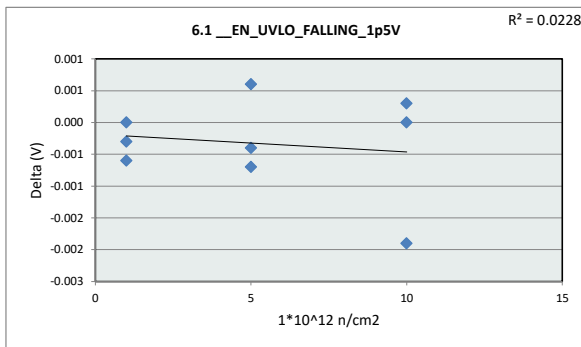


6.0_EN_UVLO_RISING_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	0.645	V	
Min Limit	0.475	V	
1*10 ¹² n/cm2	1	5	10
LL	0.475	0.475	0.475
Min	0.602	0.597	0.602
Average	0.611	0.602	0.607
Max	0.620	0.606	0.610
UL	0.645	0.645	0.645

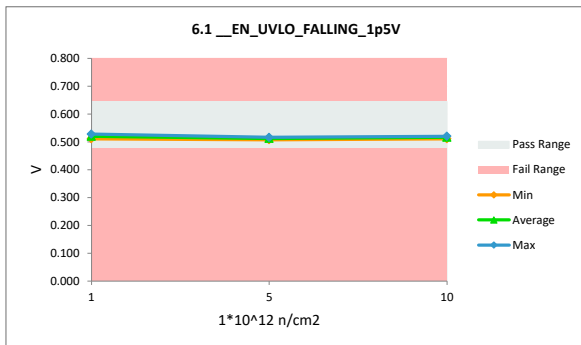


NDD Report
TPS7H2201-SP

6.1 EN UVLO_FALLING_1p5V				
Test Site				
Tester				
Test Number				
Unit		V	V	
Max Limit		0.645	0.645	
Min Limit		0.475	0.475	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.511	0.511	0.000
1	274	0.520	0.520	0.000
1	275	0.527	0.528	-0.001
5	276	0.507	0.507	0.000
5	277	0.517	0.516	0.001
5	290	0.512	0.513	-0.001
10	291	0.520	0.520	0.000
10	292	0.509	0.511	-0.002
10	293	0.519	0.519	0.000
Max		0.527	0.528	0.001
Average		0.516	0.516	0.000
Min		0.507	0.507	-0.002
Std Dev		0.007	0.006	0.001



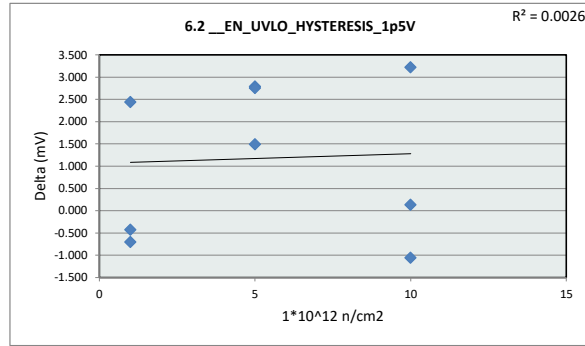
6.1 EN UVLO_FALLING_1p5V			
Test Site			
Tester			
Test Number			
Max Limit		0.645	V
Min Limit		0.475	V
1*10 ¹² n/cm2	1	5	10
LL	0.475	0.475	0.475
Min	0.511	0.507	0.511
Average	0.520	0.512	0.517
Max	0.528	0.516	0.520
UL	0.645	0.645	0.645



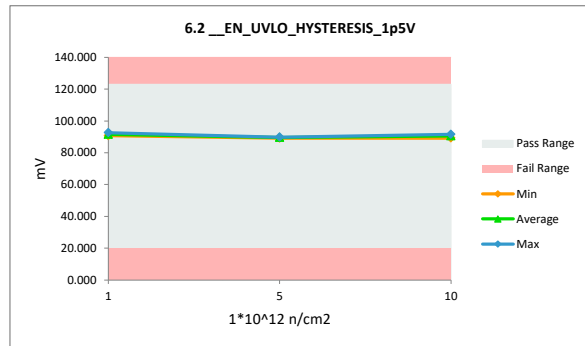
NDD Report
TPS7H2201-SP

6.2_EN_UVLO_HYSTERESIS_1p5V	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	123
Min Limit	20

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	90.631	91.338	-0.707
1	274	93.125	90.688	2.437
1	275	92.177	92.605	-0.428
5	276	92.621	89.831	2.790
5	277	91.302	89.813	1.489
5	290	91.877	89.125	2.752
10	291	92.455	89.238	3.217
10	292	91.077	90.947	0.130
10	293	90.502	91.562	-1.060
	Max	93.125	92.605	3.217
	Average	91.752	90.572	1.180
	Min	90.502	89.125	-1.060
	Std Dev	0.922	1.165	1.701

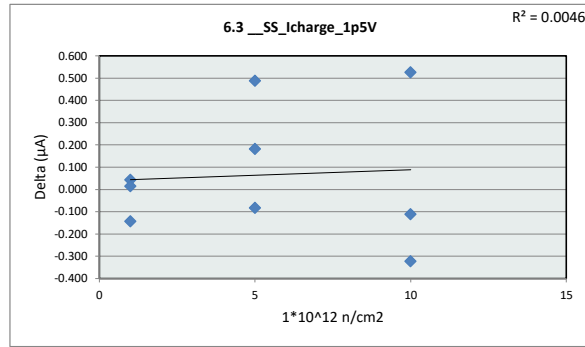


6.2_EN_UVLO_HYSTERESIS			
Test Site			
Tester			
Test Number			
Max Limit	123	mV	
Min Limit	20	mV	
1*10 ¹² n/cm2	1	5	10
LL	20.000	20.000	20.000
Min	90.688	89.125	89.238
Average	91.544	89.590	90.582
Max	92.605	89.831	91.562
UL	123.000	123.000	123.000

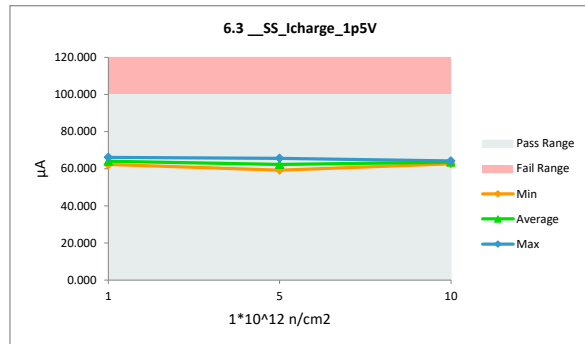


NDD Report
TPS7H2201-SP

6.3 __SS_Icharge_1p5V				
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	66.098	66.055	0.043
1	274	62.038	62.182	-0.144
1	275	63.669	63.655	0.014
5	276	59.593	59.105	0.488
5	277	62.128	61.946	0.182
5	290	65.500	65.583	-0.083
10	291	63.186	62.660	0.526
10	292	63.588	63.700	-0.112
10	293	63.759	64.082	-0.323
	Max	66.098	66.055	0.526
	Average	63.284	63.219	0.066
	Min	59.593	59.105	-0.323
	Std Dev	1.931	2.084	0.286

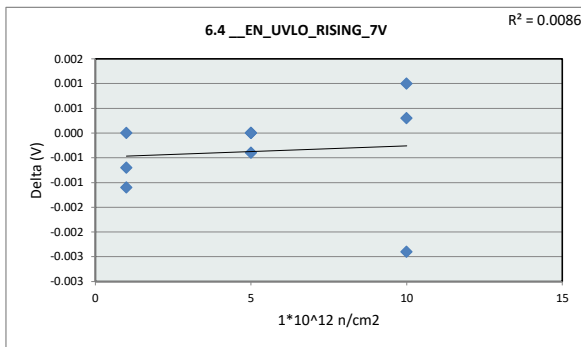


6.3 __SS_Icharge_1p5V			
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	62.182	59.105	62.660
Average	63.964	62.211	63.481
Max	66.055	65.583	64.082
UL	100.000	100.000	100.000

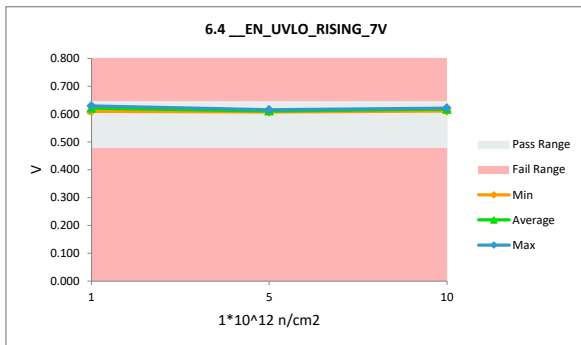


NDD Report
TPS7H2201-SP

6.4 __EN_UVLO_RISING_7V				
Test Site				
Tester				
Test Number				
Unit		V	V	
Max Limit		0.645	0.645	
Min Limit		0.475	0.475	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.610	0.610	0.000
1	274	0.622	0.623	-0.001
1	275	0.628	0.629	-0.001
5	276	0.607	0.607	0.000
5	277	0.615	0.615	0.000
5	290	0.611	0.612	0.000
10	291	0.622	0.621	0.001
10	292	0.608	0.610	-0.002
10	293	0.620	0.619	0.000
	Max	0.628	0.629	0.001
	Average	0.616	0.616	0.000
	Min	0.607	0.607	-0.002
	Std Dev	0.007	0.007	0.001

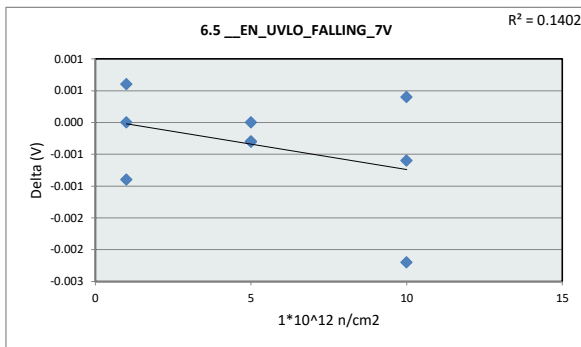


6.4 __EN_UVLO_RISING_7V			
Test Site			
Tester			
Test Number			
Max Limit	0.645	V	
Min Limit	0.475	V	
1*10 ¹² n/cm2	1	5	10
LL	0.475	0.475	0.475
Min	0.610	0.607	0.610
Average	0.620	0.611	0.617
Max	0.629	0.615	0.621
UL	0.645	0.645	0.645

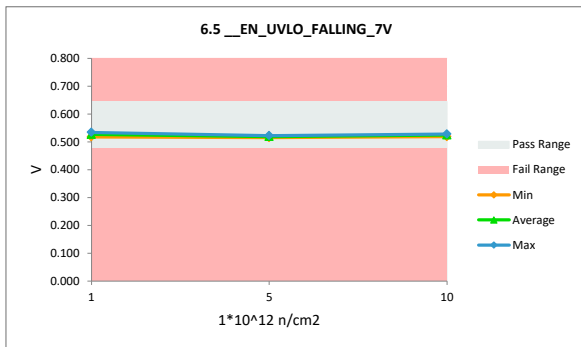


NDD Report
TPS7H2201-SP

6.5_EN_UVLO_FALLING_7V				
Test Site				
Tester				
Test Number				
Unit	V	V		
Max Limit	0.645	0.645		
Min Limit	0.475	0.475		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.518	0.518	0.001
1	274	0.528	0.528	0.000
1	275	0.533	0.534	-0.001
5	276	0.515	0.515	0.000
5	277	0.522	0.522	0.000
5	290	0.519	0.520	0.000
10	291	0.529	0.528	0.000
10	292	0.516	0.518	-0.002
10	293	0.526	0.526	-0.001
Max		0.533	0.534	0.001
Average		0.523	0.523	0.000
Min		0.515	0.515	-0.002
Std Dev		0.006	0.006	0.001



6.5_EN_UVLO_FALLING_7V			
Test Site			
Tester			
Test Number			
Max Limit	0.645	V	
Min Limit	0.475	V	
1*10 ¹² n/cm2	1	5	10
LL	0.475	0.475	0.475
Min	0.518	0.515	0.519
Average	0.527	0.519	0.524
Max	0.534	0.522	0.528
UL	0.645	0.645	0.645

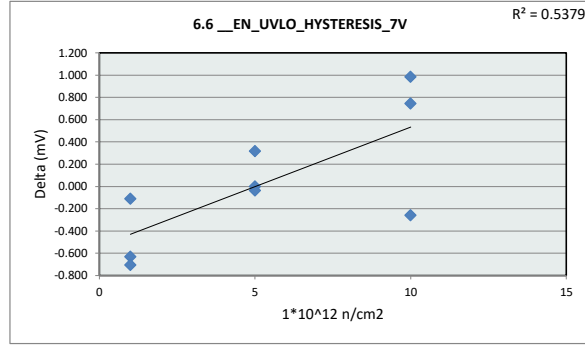


NDD Report
TPS7H2201-SP

6.6_EN_UVLO_HYSTERESIS_7V

Test Site		
Tester		
Test Number		
Unit	mV	mV
Max Limit	123	123
Min Limit	20	20

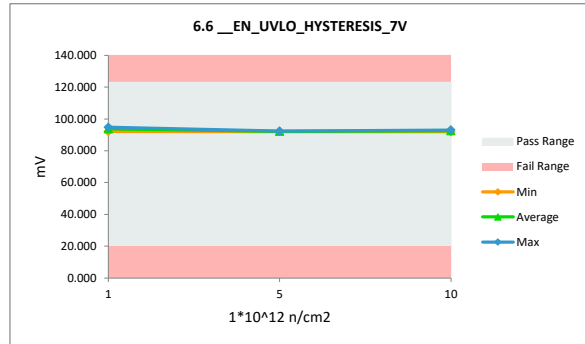
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	91.487	92.120	-0.633
1	274	93.739	94.445	-0.706
1	275	94.651	94.763	-0.112
5	276	92.492	92.175	0.317
5	277	92.325	92.325	0.000
5	290	91.953	91.990	-0.037
10	291	93.776	93.032	0.744
10	292	91.618	91.878	-0.260
10	293	93.794	92.809	0.985
Max		94.651	94.763	0.985
Average		92.871	92.837	0.033
Min		91.487	91.878	-0.706
Std Dev		1.138	1.072	0.570



6.6_EN_UVLO_HYSTERESIS

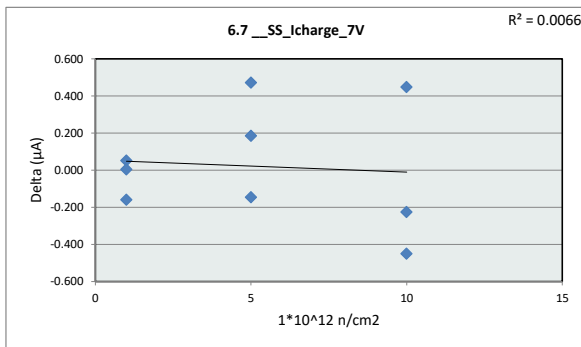
Test Site		
Tester		
Test Number		
Max Limit	123	mV
Min Limit	20	mV

1*10 ¹² n/cm2	1	5	10
LL	20.000	20.000	20.000
Min	92.120	91.990	91.878
Average	93.776	92.163	92.573
Max	94.763	92.325	93.032
UL	123.000	123.000	123.000

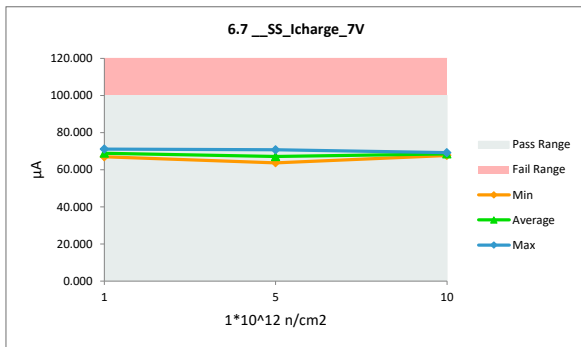


NDD Report
TPS7H2201-SP

		6.7 __SS_Icharge_7V		
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		100	100	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	71.136	71.085	0.051
1	274	66.789	66.949	-0.160
1	275	68.484	68.480	0.004
5	276	64.188	63.716	0.472
5	277	66.910	66.725	0.185
5	290	70.499	70.645	-0.146
10	291	68.036	67.588	0.448
10	292	68.486	68.712	-0.226
10	293	68.629	69.080	-0.451
Max		71.136	71.085	0.472
Average		68.129	68.109	0.020
Min		64.188	63.716	-0.451
Std Dev		2.061	2.224	0.308

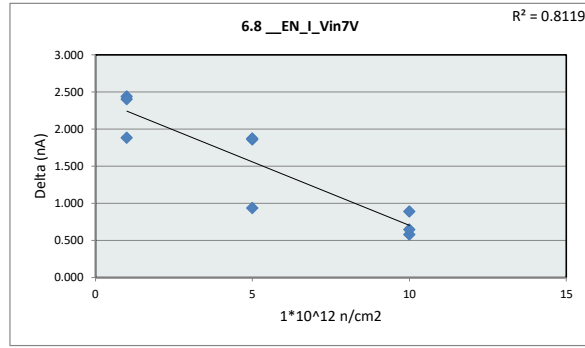


		6.7 __SS_Icharge_7V		
Test Site				
Tester				
Test Number				
Max Limit		100	µA	
Min Limit		0	µA	
1*10 ¹² n/cm2	1	5	10	
LL	0.000	0.000	0.000	
Min	66.949	63.716	67.588	
Average	68.838	67.029	68.460	
Max	71.085	70.645	69.080	
UL	100.000	100.000	100.000	

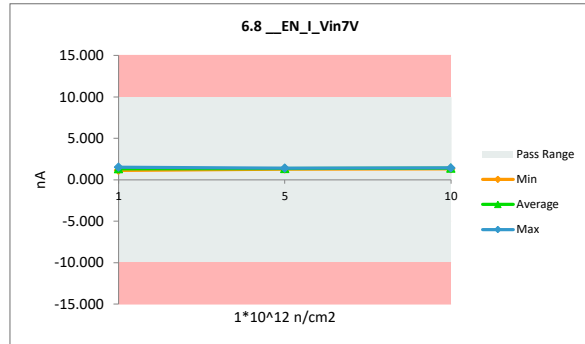


NDD Report
TPS7H2201-SP

6.8_EN_I_Vin7V				
Test Site				
Tester				
Test Number				
Unit	nA	nA		
Max Limit	9.9	9.9		
Min Limit	-9.9	-9.9		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	3.392	1.510	1.882
1	274	3.748	1.311	2.437
1	275	3.550	1.147	2.403
5	276	3.250	1.391	1.859
5	277	3.211	1.340	1.871
5	290	2.234	1.300	0.934
10	291	2.216	1.329	0.887
10	292	2.006	1.427	0.579
10	293	2.047	1.401	0.646
Max		3.748	1.510	2.437
Average		2.850	1.351	1.500
Min		2.006	1.147	0.579
Std Dev		0.709	0.101	0.740

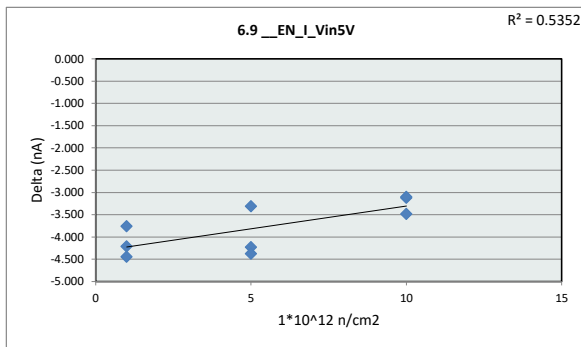


6.8_EN_I_Vin7V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	1.147	1.300	1.329
Average	1.323	1.344	1.386
Max	1.510	1.391	1.427
UL	9.900	9.900	9.900

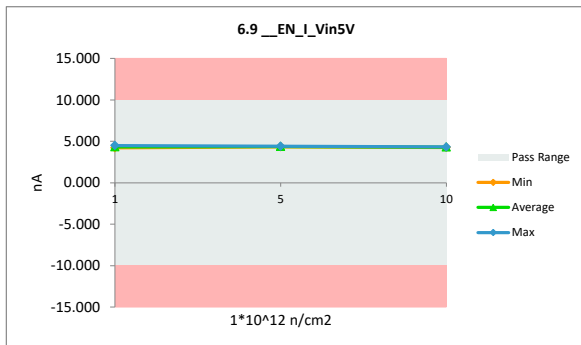


NDD Report
TPS7H2201-SP

6.9_EN_I_Vin5V				
Test Site				
Tester				
Test Number				
Unit	nA	nA		
Max Limit	9.9	9.9		
Min Limit	-9.9	-9.9		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.050	4.496	-4.446
1	274	0.518	4.277	-3.759
1	275	0.016	4.231	-4.215
5	276	0.112	4.342	-4.230
5	277	0.023	4.400	-4.377
5	290	1.073	4.386	-3.313
10	291	0.842	4.325	-3.483
10	292	1.139	4.262	-3.123
10	293	1.223	4.323	-3.100
Max		1.223	4.496	-3.100
Average		0.555	4.338	-3.783
Min		0.016	4.231	-4.446
Std Dev		0.520	0.081	0.547

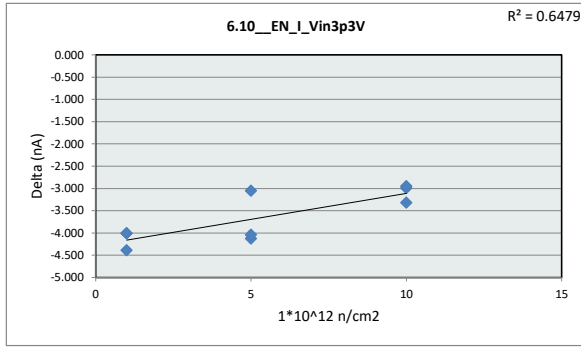


6.9_EN_I_Vin5V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	4.231	4.342	4.262
Average	4.335	4.376	4.303
Max	4.496	4.400	4.325
UL	9.900	9.900	9.900

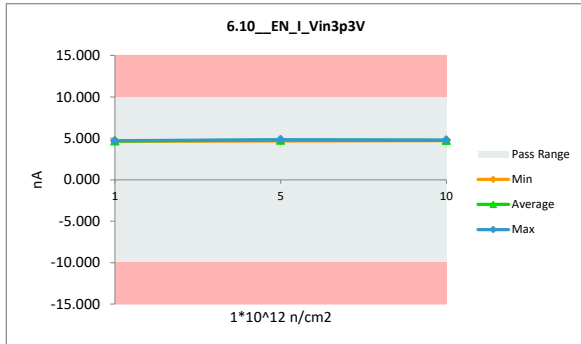


NDD Report
TPS7H2201-SP

6.10_EN_I_Vin3p3V				
Test Site				
Tester				
Test Number				
Unit	nA	nA		
Max Limit	9.9	9.9		
Min Limit	-9.9	-9.9		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.685	4.691	-4.006
1	274	0.324	4.715	-4.391
1	275	0.647	4.657	-4.010
5	276	0.725	4.852	-4.127
5	277	0.776	4.818	-4.042
5	290	1.623	4.675	-3.052
10	291	1.386	4.709	-3.323
10	292	1.755	4.750	-2.995
10	293	1.858	4.809	-2.951
Max		1.858	4.852	-2.951
Average		1.087	4.742	-3.655
Min		0.324	4.657	-4.391
Std Dev		0.568	0.069	0.567



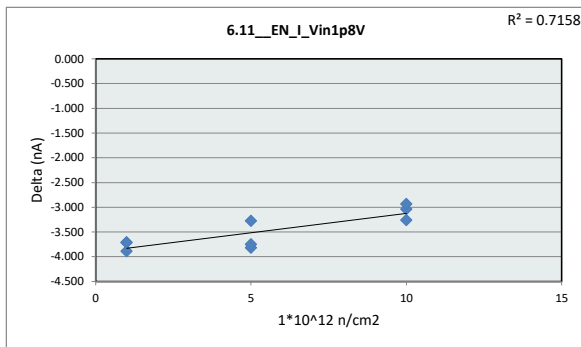
6.10_EN_I_Vin3p3V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	4.657	4.675	4.709
Average	4.688	4.782	4.756
Max	4.715	4.852	4.809
UL	9.900	9.900	9.900



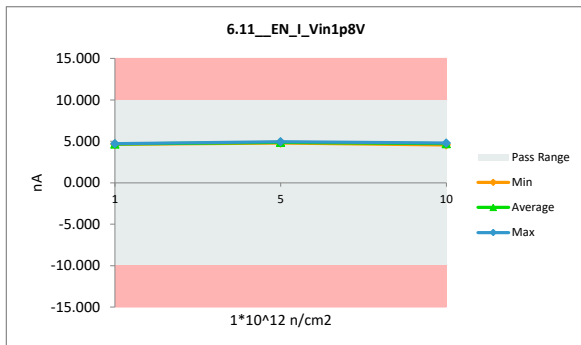
NDD Report
TPS7H2201-SP

6.11_EN_I_Vin1p8V	
Test Site	
Tester	
Test Number	
Unit	nA
Max Limit	9.9
Min Limit	-9.9

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.933	4.644	-3.711
1	274	0.827	4.715	-3.888
1	275	0.933	4.648	-3.715
5	276	1.061	4.882	-3.821
5	277	1.038	4.789	-3.751
5	290	1.663	4.940	-3.277
10	291	1.311	4.570	-3.259
10	292	1.747	4.787	-3.040
10	293	1.820	4.755	-2.935
Max		1.820	4.940	-2.935
Average		1.259	4.748	-3.489
Min		0.827	4.570	-3.888
Std Dev		0.388	0.118	0.361

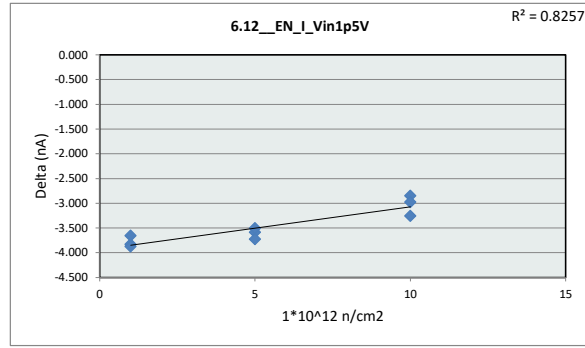


6.11_EN_I_Vin1p8V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	4.644	4.789	4.570
Average	4.669	4.870	4.704
Max	4.715	4.940	4.787
UL	9.900	9.900	9.900

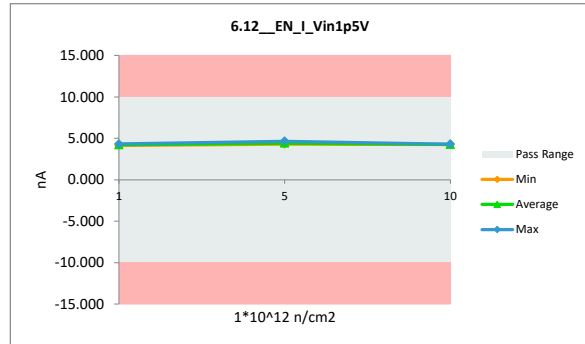


NDD Report
TPS7H2201-SP

6.12_EN_I_Vin1p5V				
Test Site				
Tester				
Test Number				
Unit	nA	nA		
Max Limit	9.9	9.9		
Min Limit	-9.9	-9.9		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.486	4.316	-3.830
1	274	0.345	4.220	-3.875
1	275	0.491	4.147	-3.656
5	276	0.699	4.287	-3.588
5	277	0.597	4.325	-3.728
5	290	1.148	4.654	-3.506
10	291	1.055	4.313	-3.258
10	292	1.405	4.255	-2.850
10	293	1.282	4.258	-2.976
Max		1.405	4.654	-2.850
Average		0.834	4.308	-3.474
Min		0.345	4.147	-3.875
Std Dev		0.392	0.141	0.368

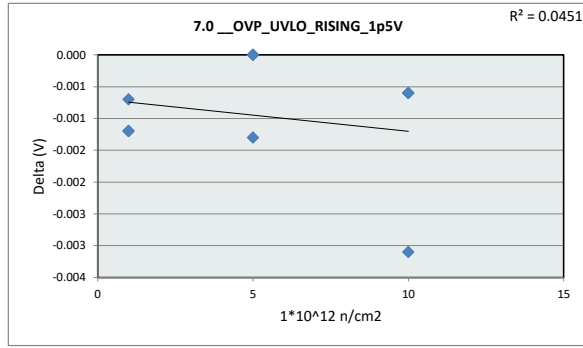


6.12_EN_I_Vin1p5V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	4.147	4.287	4.255
Average	4.228	4.422	4.275
Max	4.316	4.654	4.313
UL	9.900	9.900	9.900

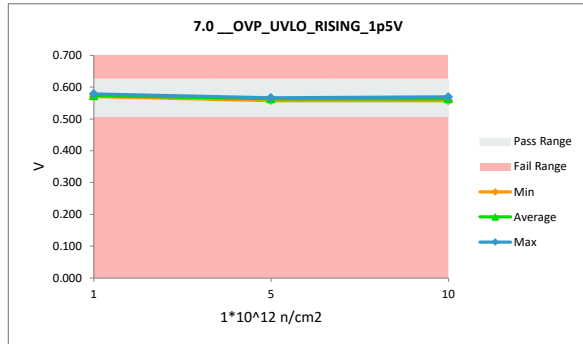


NDD Report
TPS7H2201-SP

7.0_OVP_UVLO_RISING_1p5V				
Test Site				
Tester				
Test Number				
Unit	V	V		
Max Limit	0.625	0.625		
Min Limit	0.505	0.505		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.569	0.570	-0.001
1	274	0.569	0.570	-0.001
1	275	0.578	0.578	-0.001
5	276	0.558	0.558	0.000
5	277	0.565	0.567	-0.001
5	290	0.565	0.565	0.000
10	291	0.564	0.565	-0.001
10	292	0.554	0.557	-0.003
10	293	0.568	0.569	-0.001
Max		0.578	0.578	0.000
Average		0.566	0.567	-0.001
Min		0.554	0.557	-0.003
Std Dev		0.007	0.007	0.001



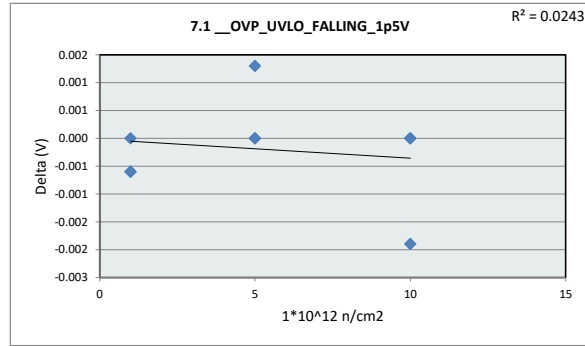
7.0_OVP_UVLO_RISING_1p5			
Test Site			
Tester			
Test Number			
Max Limit	0.625	V	
Min Limit	0.505	V	
1*10 ¹² n/cm2	1	5	10
LL	0.505	0.505	0.505
Min	0.570	0.558	0.557
Average	0.573	0.563	0.564
Max	0.579	0.567	0.569
UL	0.625	0.625	0.625



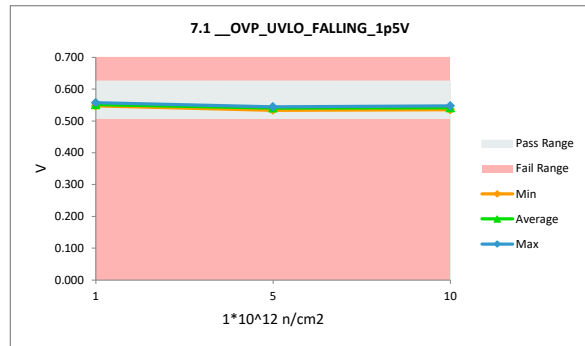
NDD Report
TPS7H2201-SP

7.1_OVP_UVLO_FALLING_1p5V	
Test Site	
Tester	
Test Number	
Unit	V
Max Limit	0.625
Min Limit	0.505

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.549	0.549	0.000
1	274	0.547	0.548	-0.001
1	275	0.556	0.557	-0.001
5	276	0.535	0.534	0.001
5	277	0.543	0.543	0.000
5	290	0.544	0.544	0.000
10	291	0.541	0.541	0.000
10	292	0.533	0.535	-0.002
10	293	0.548	0.548	0.000
Max		0.556	0.557	0.001
Average		0.544	0.544	0.000
Min		0.533	0.534	-0.002
Std Dev		0.007	0.007	0.001



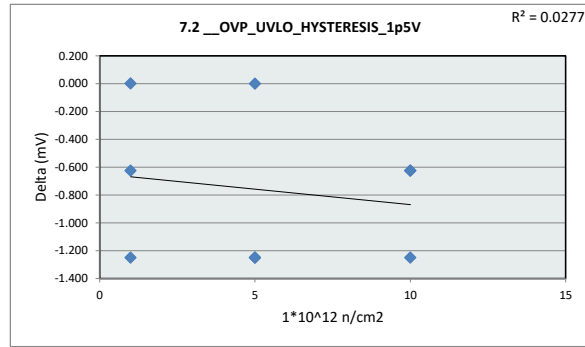
7.1_OVP_UVLO_FALLING_1p			
Test Site			
Tester			
Test Number			
Max Limit	0.625	V	
Min Limit	0.505	V	
1*10 ¹² n/cm2	1	5	10
LL	0.505	0.505	0.505
Min	0.548	0.534	0.535
Average	0.551	0.540	0.541
Max	0.557	0.544	0.548
UL	0.625	0.625	0.625



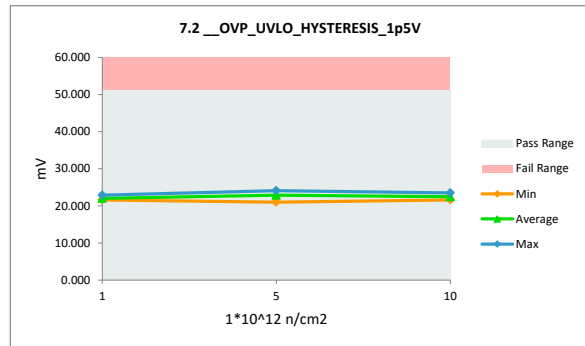
NDD Report
TPS7H2201-SP

7.2_OVP_UVLO_HYSTERESIS	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	51
Min Limit	0

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	20.338	21.589	-1.251
1	274	22.215	22.841	-0.626
1	275	21.590	21.589	0.001
5	276	22.841	24.092	-1.251
5	277	22.215	23.466	-1.251
5	290	20.964	20.964	0.000
10	291	22.841	23.467	-0.626
10	292	20.964	22.215	-1.251
10	293	20.964	21.589	-0.625
Max		22.841	24.092	0.001
Average		21.659	22.424	-0.764
Min		20.338	20.964	-1.251
Std Dev		0.909	1.084	0.521

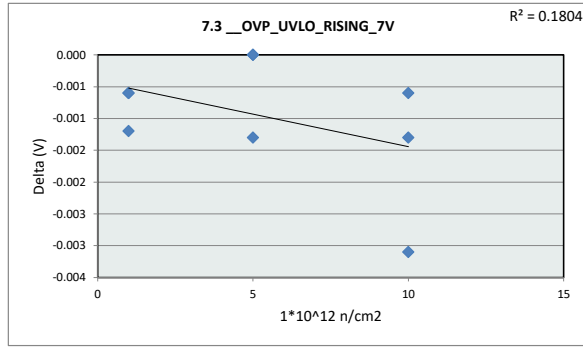


7.2_OVP_UVLO_HYSTERESIS			
Test Site			
Tester			
Test Number			
Max Limit	51	mV	
Min Limit	0	mV	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	21.589	20.964	21.589
Average	22.006	22.841	22.424
Max	22.841	24.092	23.467
UL	51.000	51.000	51.000

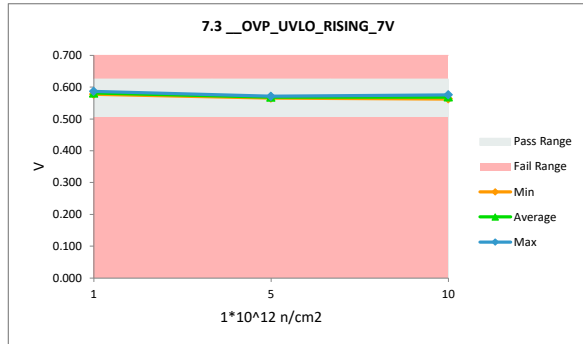


NDD Report
TPS7H2201-SP

7.3_OVP_UVLO_RISING_7V				
Test Site				
Tester				
Test Number				
Unit	V	V		
Max Limit	0.625	0.625		
Min Limit	0.505	0.505		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.577	0.577	-0.001
1	274	0.579	0.580	-0.001
1	275	0.585	0.587	-0.001
5	276	0.565	0.565	0.000
5	277	0.570	0.571	-0.001
5	290	0.568	0.568	0.000
10	291	0.567	0.568	-0.001
10	292	0.560	0.563	-0.003
10	293	0.575	0.575	-0.001
Max		0.585	0.587	0.000
Average		0.572	0.573	-0.001
Min		0.560	0.563	-0.003
Std Dev		0.008	0.008	0.001



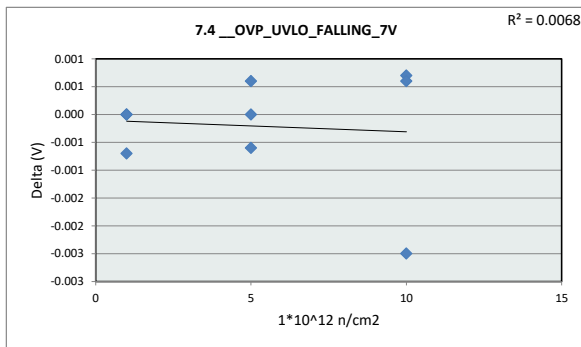
7.3_OVP_UVLO_RISING_7V			
Test Site			
Tester			
Test Number			
Max Limit	0.625	V	
Min Limit	0.505	V	
1*10 ¹² n/cm2	1	5	10
LL	0.505	0.505	0.505
Min	0.577	0.565	0.563
Average	0.581	0.568	0.569
Max	0.587	0.571	0.575
UL	0.625	0.625	0.625



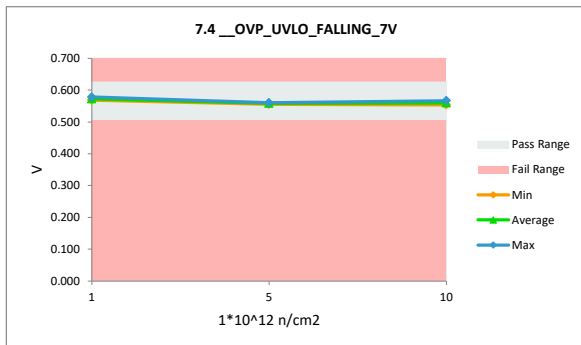
NDD Report
TPS7H2201-SP

		7.4 __OVP_UVLO_FALLING_7V	
Test Site			
Tester			
Test Number			
Unit		V	V
Max Limit		0.625	0.625
Min Limit		0.505	0.505

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.569	0.569	0.000
1	274	0.570	0.571	-0.001
1	275	0.578	0.578	0.000
5	276	0.556	0.555	0.001
5	277	0.560	0.561	-0.001
5	290	0.561	0.561	0.000
10	291	0.559	0.558	0.001
10	292	0.551	0.554	-0.002
10	293	0.567	0.567	0.001
Max		0.578	0.578	0.001
Average		0.563	0.564	0.000
Min		0.551	0.554	-0.002
Std Dev		0.008	0.008	0.001



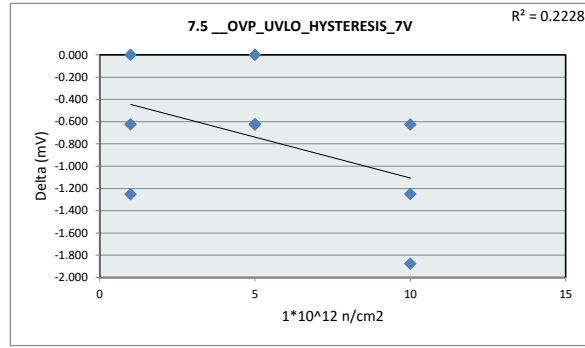
		7.4 __OVP_UVLO_FALLING_7V		
Test Site				
Tester				
Test Number				
Max Limit		0.625	V	
Min Limit		0.505	V	
1*10 ¹² n/cm2		1	5	10
LL		0.505	0.505	0.505
Min		0.569	0.555	0.554
Average		0.573	0.559	0.560
Max		0.578	0.561	0.567
UL		0.625	0.625	0.625



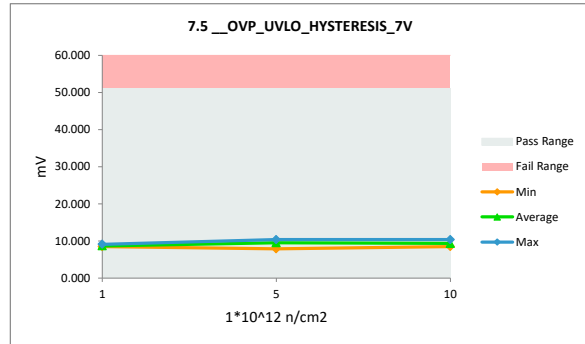
NDD Report
TPS7H2201-SP

7.5_OVP_UVLO_HYSTERESIS_7V	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	51
Min Limit	0

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	7.823	8.448	-0.625
1	274	9.074	9.074	0.000
1	275	7.196	8.448	-1.252
5	276	9.700	10.325	-0.625
5	277	9.699	10.325	-0.626
5	290	7.822	7.822	0.000
10	291	8.448	10.325	-1.877
10	292	8.448	9.074	-0.626
10	293	7.197	8.448	-1.251
Max		9.700	10.325	0.000
Average		8.379	9.143	-0.765
Min		7.196	7.822	-1.877
Std Dev		0.962	0.961	0.608

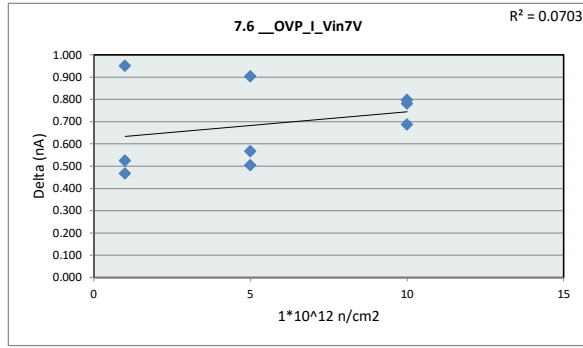


7.5_OVP_UVLO_HYSTERESIS_7V			
Test Site			
Tester			
Test Number			
Max Limit	51	mV	
Min Limit	0	mV	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	8.448	7.822	8.448
Average	8.657	9.491	9.282
Max	9.074	10.325	10.325
UL	51.000	51.000	51.000

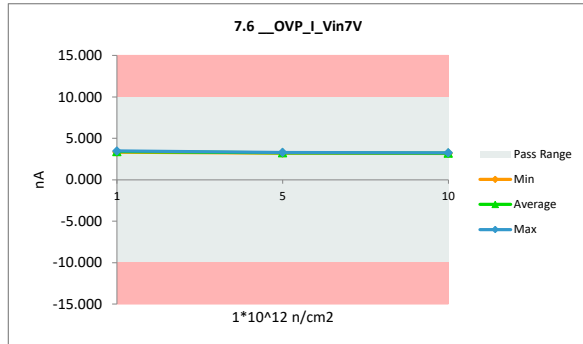


NDD Report
TPS7H2201-SP

		7.6 __OVP_I_Vin7V		
Test Site				
Tester				
Test Number				
Unit		nA	nA	
Max Limit		9.9	9.9	
Min Limit		-9.9	-9.9	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	3.851	3.384	0.467
1	274	4.417	3.466	0.951
1	275	3.864	3.339	0.525
5	276	3.805	3.301	0.504
5	277	3.814	3.247	0.567
5	290	4.117	3.214	0.903
10	291	3.929	3.242	0.687
10	292	3.992	3.211	0.781
10	293	3.987	3.190	0.797
Max		4.417	3.466	0.951
Average		3.975	3.288	0.687
Min		3.805	3.190	0.467
Std Dev		0.194	0.093	0.180

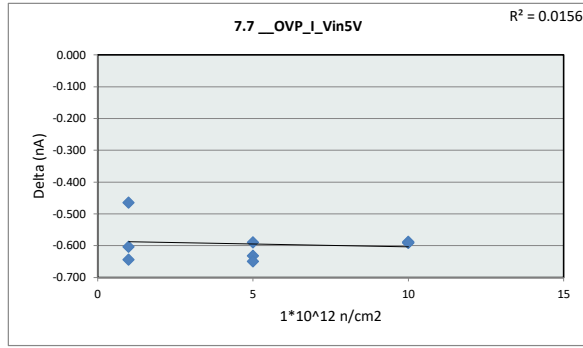


		7.6 __OVP_I_Vin7V		
Test Site				
Tester				
Test Number				
Max Limit		9.9	nA	
Min Limit		-9.9	nA	
1*10 ¹² n/cm2		1	5	10
LL		-9.900	-9.900	-9.900
Min		3.339	3.214	3.190
Average		3.396	3.254	3.214
Max		3.466	3.301	3.242
UL		9.900	9.900	9.900

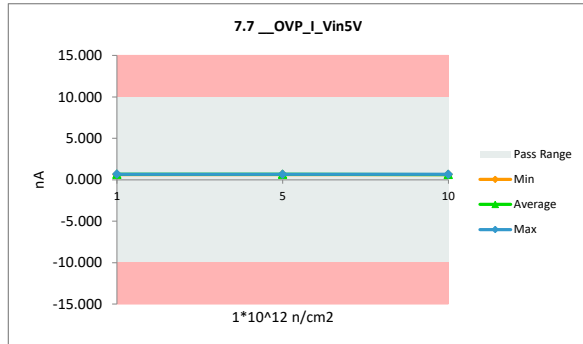


NDD Report
TPS7H2201-SP

		7.7 __OVP_I_Vin5V		
Test Site				
Tester				
Test Number				
Unit		nA	nA	
Max Limit		9.9	9.9	
Min Limit		-9.9	-9.9	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.024	0.668	-0.644
1	274	0.172	0.637	-0.465
1	275	0.033	0.637	-0.604
5	276	0.051	0.641	-0.590
5	277	0.015	0.647	-0.632
5	290	0.013	0.663	-0.650
10	291	0.039	0.630	-0.591
10	292	0.043	0.631	-0.588
10	293	0.063	0.654	-0.591
Max		0.172	0.668	-0.465
Average		0.050	0.645	-0.595
Min		0.013	0.630	-0.650
Std Dev		0.048	0.014	0.055



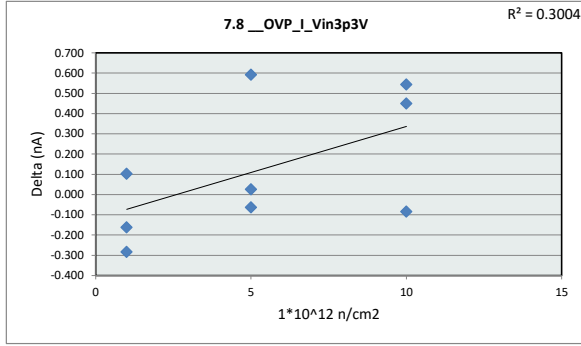
		7.7 __OVP_I_Vin5V		
Test Site				
Tester				
Test Number				
Max Limit		9.9	nA	
Min Limit		-9.9	nA	
1*10 ¹² n/cm2		1	5	10
LL		-9.900	-9.900	-9.900
Min		0.637	0.641	0.630
Average		0.647	0.650	0.638
Max		0.668	0.663	0.654
UL		9.900	9.900	9.900



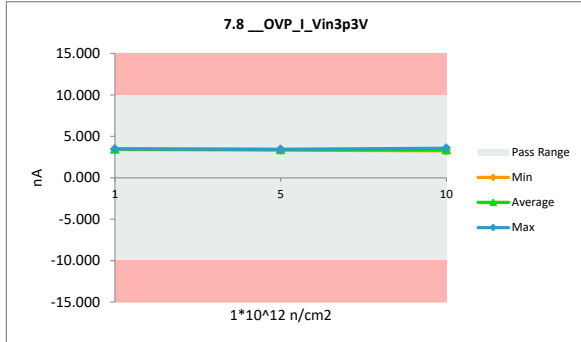
NDD Report
TPS7H2201-SP

7.8 __OVP_I_Vin3p3V	
Test Site	
Tester	
Test Number	
Unit	nA
Max Limit	9.9
Min Limit	-9.9

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	3.521	3.419	0.102
1	274	3.329	3.492	-0.163
1	275	3.206	3.490	-0.284
5	276	3.283	3.347	-0.064
5	277	3.471	3.446	0.025
5	290	3.987	3.395	0.592
10	291	3.489	3.574	-0.085
10	292	3.810	3.267	0.543
10	293	3.700	3.251	0.449
Max		3.987	3.574	0.592
Average		3.533	3.409	0.124
Min		3.206	3.251	-0.284
Std Dev		0.257	0.107	0.324



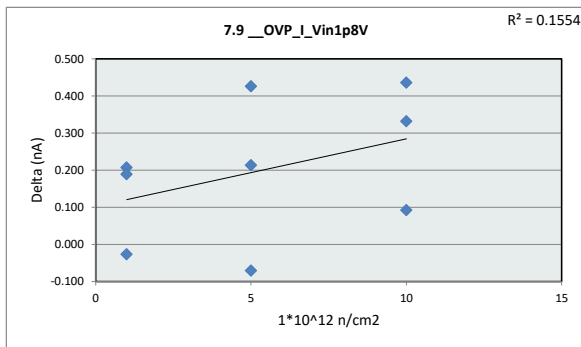
7.8 __OVP_I_Vin3p3V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	3.419	3.347	3.251
Average	3.467	3.396	3.364
Max	3.492	3.446	3.574
UL	9.900	9.900	9.900



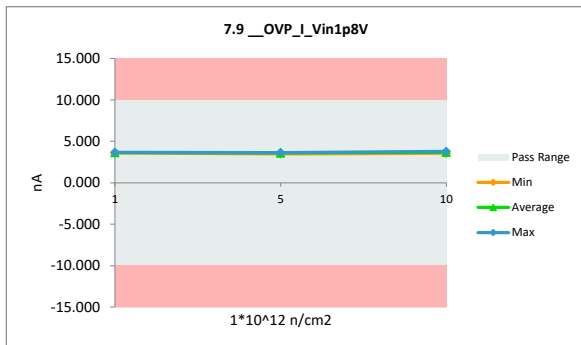
NDD Report
TPS7H2201-SP

7.9_OVP_I_Vin1p8V	
Test Site	
Tester	
Test Number	
Unit	nA nA
Max Limit	9.9 9.9
Min Limit	-9.9 -9.9

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	3.799	3.592	0.207
1	274	3.863	3.674	0.189
1	275	3.585	3.612	-0.027
5	276	3.577	3.648	-0.071
5	277	3.697	3.484	0.213
5	290	4.043	3.617	0.426
10	291	3.873	3.781	0.092
10	292	3.893	3.561	0.332
10	293	4.087	3.651	0.436
Max		4.087	3.781	0.436
Average		3.824	3.624	0.200
Min		3.577	3.484	-0.071
Std Dev		0.181	0.082	0.181

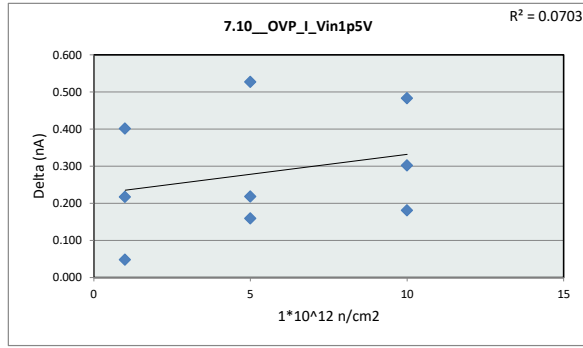


7.9_OVP_I_Vin1p8V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	3.592	3.484	3.561
Average	3.626	3.583	3.664
Max	3.674	3.648	3.781
UL	9.900	9.900	9.900

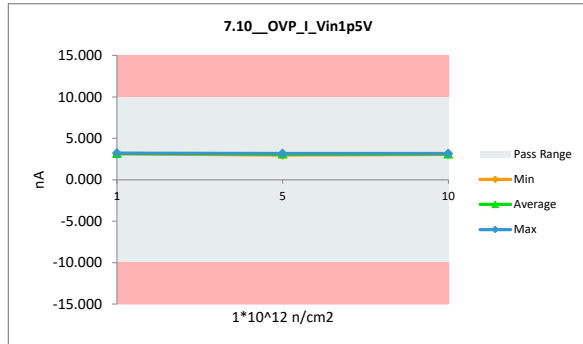


NDD Report
TPS7H2201-SP

7.10_OVP_I_Vin1p5V				
Test Site				
Tester				
Test Number				
Unit	nA	nA		
Max Limit	9.9	9.9		
Min Limit	-9.9	-9.9		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	3.356	3.139	0.217
1	274	3.620	3.219	0.401
1	275	3.197	3.149	0.048
5	276	3.197	2.979	0.218
5	277	3.345	3.186	0.159
5	290	3.663	3.136	0.527
10	291	3.359	3.178	0.181
10	292	3.540	3.057	0.483
10	293	3.432	3.130	0.302
Max		3.663	3.219	0.527
Average		3.412	3.130	0.282
Min		3.197	2.979	0.048
Std Dev		0.168	0.072	0.159

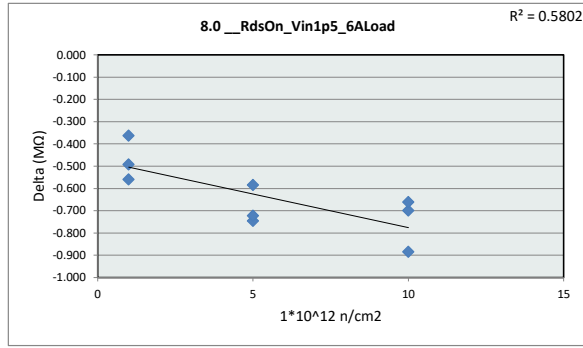


7.10_OVP_I_Vin1p5V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	nA	
Min Limit	-9.9	nA	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	3.139	2.979	3.057
Average	3.169	3.100	3.122
Max	3.219	3.186	3.178
UL	9.900	9.900	9.900

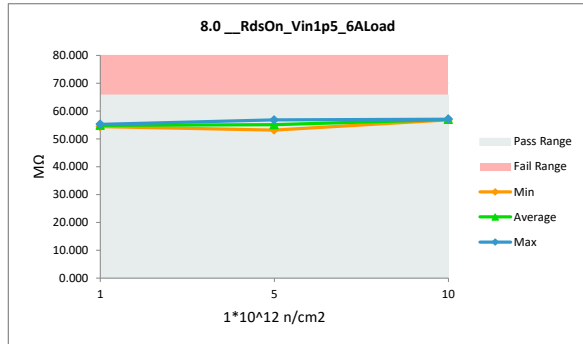


NDD Report
TPS7H2201-SP

8.0_RdsOn_Vin1p5_6ALoad				
Test Site				
Tester				
Test Number				
Unit	MΩ	MΩ		
Max Limit	65.702	65.702		
Min Limit	0	0		
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	54.548	54.911	-0.363
1	274	53.796	54.356	-0.560
1	275	54.744	55.237	-0.493
5	276	52.557	53.142	-0.585
5	277	54.447	55.193	-0.746
5	290	56.043	56.766	-0.723
10	291	56.288	56.988	-0.700
10	292	56.177	57.062	-0.885
10	293	56.185	56.847	-0.662
Max		56.288	57.062	-0.363
Average		54.976	55.611	-0.635
Min		52.557	53.142	-0.885
Std Dev		1.300	1.385	0.154

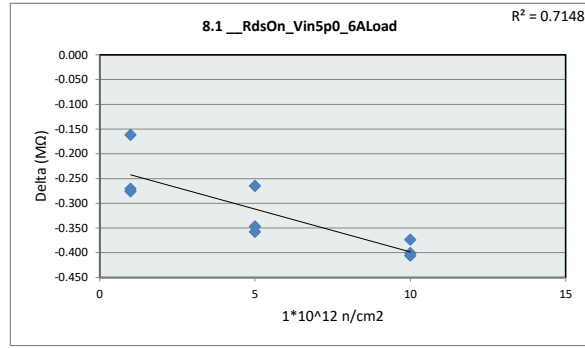


8.0_RdsOn_Vin1p5_6ALoad			
Test Site			
Tester			
Test Number			
Max Limit	65.702	MΩ	
Min Limit	0	MΩ	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	54.356	53.142	56.847
Average	54.835	55.034	56.966
Max	55.237	56.766	57.062
UL	65.702	65.702	65.702

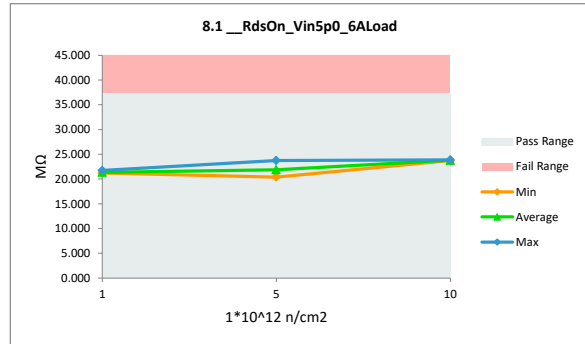


NDD Report
TPS7H2201-SP

		8.1_RdsOn_Vin5p0_6ALoad		
Test Site				
Tester				
Test Number				
Unit		MΩ	MΩ	
Max Limit		37.296	37.296	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	21.041	21.203	-0.162
1	274	20.927	21.203	-0.276
1	275	21.438	21.709	-0.271
5	276	20.132	20.397	-0.265
5	277	21.188	21.546	-0.358
5	290	23.373	23.720	-0.347
10	291	23.353	23.754	-0.401
10	292	23.300	23.706	-0.406
10	293	23.488	23.862	-0.374
	Max	23.488	23.862	-0.162
	Average	22.027	22.344	-0.318
	Min	20.132	20.397	-0.406
	Std Dev	1.330	1.391	0.080

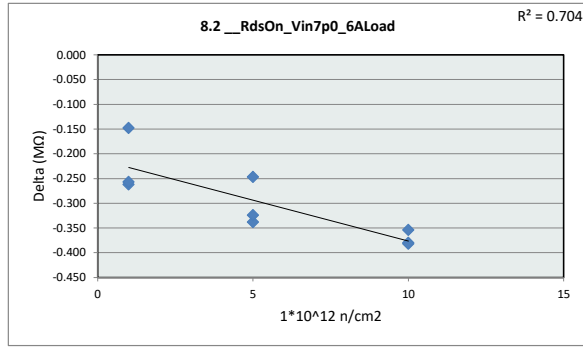


		8.1_RdsOn_Vin5p0_6ALoad		
Test Site				
Tester				
Test Number				
Max Limit		37.296	MΩ	
Min Limit		0	MΩ	
1*10 ¹² n/cm2		1	5	10
LL		0.000	0.000	0.000
Min		21.203	20.397	23.706
Average		21.372	21.888	23.774
Max		21.709	23.720	23.862
UL		37.296	37.296	37.296

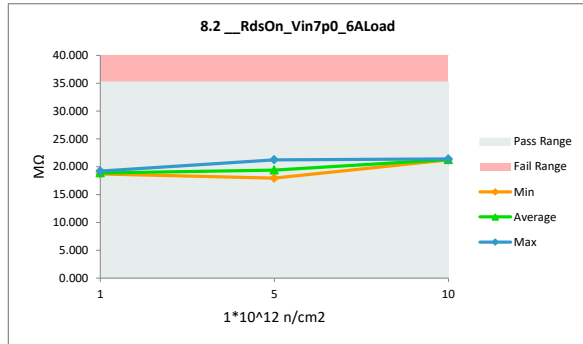


NDD Report
TPS7H2201-SP

		8.2_RdsOn_Vin7p0_6ALoad		
Test Site				
Tester				
Test Number				
Unit		MΩ	MΩ	
Max Limit		35.234	35.234	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	18.550	18.698	-0.148
1	274	18.460	18.722	-0.262
1	275	18.948	19.205	-0.257
5	276	17.681	17.928	-0.247
5	277	18.706	19.044	-0.338
5	290	20.913	21.237	-0.324
10	291	20.881	21.261	-0.380
10	292	20.832	21.214	-0.382
10	293	21.024	21.378	-0.354
	Max	21.024	21.378	-0.148
	Average	19.555	19.854	-0.299
	Min	17.681	17.928	-0.382
	Std Dev	1.332	1.391	0.077

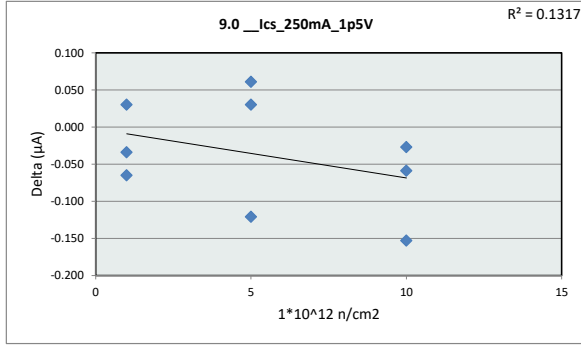


		8.2_RdsOn_Vin7p0_6ALoad		
Test Site				
Tester				
Test Number				
Max Limit		35.234	MΩ	
Min Limit		0	MΩ	
1*10 ¹² n/cm2		1	5	10
LL		0.000	0.000	0.000
Min		18.698	17.928	21.214
Average		18.875	19.403	21.284
Max		19.205	21.237	21.378
UL		35.234	35.234	35.234

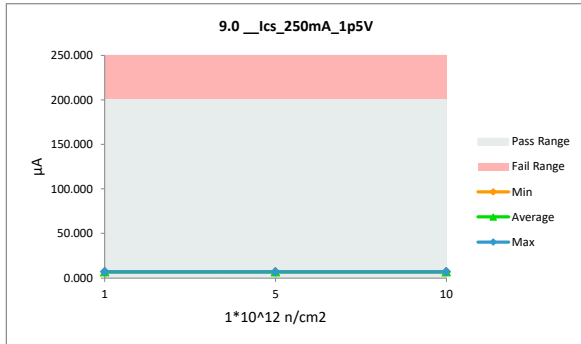


NDD Report
TPS7H2201-SP

9.0_Ics_250mA_1p5V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		200	200	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	6.857	6.922	-0.065
1	274	6.794	6.828	-0.034
1	275	6.983	6.953	0.030
5	276	6.889	6.828	0.061
5	277	6.889	6.859	0.030
5	290	6.769	6.890	-0.121
10	291	6.863	6.890	-0.027
10	292	6.769	6.922	-0.153
10	293	6.800	6.859	-0.059
	Max	6.983	6.953	0.061
	Average	6.846	6.883	-0.038
	Min	6.769	6.828	-0.153
	Std Dev	0.070	0.044	0.071

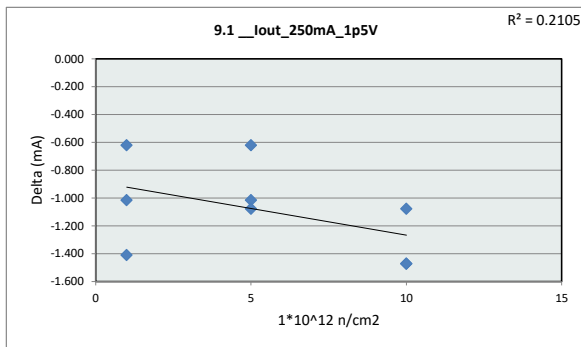


9.0_Ics_250mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	200	µA	
Min Limit	0	µA	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	6.828	6.828	6.859
Average	6.901	6.859	6.890
Max	6.953	6.890	6.922
UL	200.000	200.000	200.000

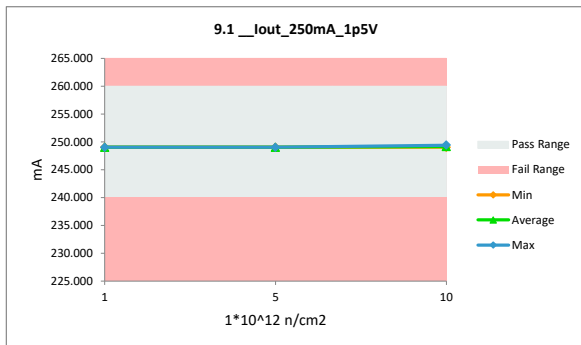


NDD Report TPS7H2201-SP

9.1 Iout_250mA_1p5V				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		260	260	
Min Limit		240	240	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	247.594	249.005	-1.411
1	274	247.989	249.005	-1.016
1	275	248.384	249.005	-0.621
5	276	247.989	249.005	-1.016
5	277	248.384	249.005	-0.621
5	290	247.927	249.005	-1.078
10	291	247.532	249.005	-1.473
10	292	247.927	249.005	-1.078
10	293	247.927	249.400	-1.473
Max		248.384	249.400	-0.621
Average		247.961	249.049	-1.087
Min		247.532	249.005	-1.473
Std Dev		0.292	0.132	0.325

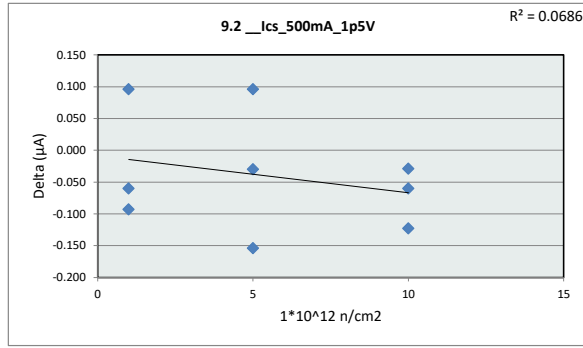


9.1 Iout_250mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit		260	mA
Min Limit		240	mA
1*10 ¹² n/cm2	1	5	10
LL	240.000	240.000	240.000
Min	249.005	249.005	249.005
Average	249.005	249.005	249.137
Max	249.005	249.005	249.400
UL	260.000	260.000	260.000

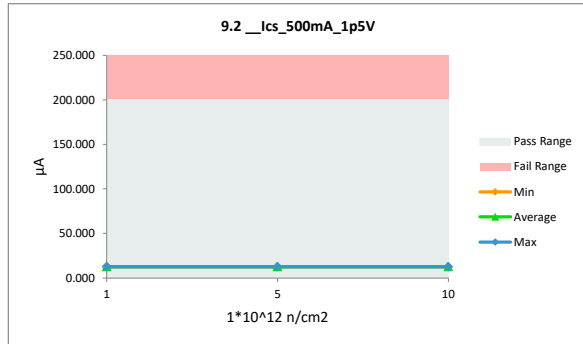


NDD Report
TPS7H2201-SP

9.2_Ics_500mA_1p5V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		200	200	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	12.545	12.449	0.096
1	274	12.608	12.701	-0.093
1	275	12.703	12.763	-0.060
5	276	12.577	12.481	0.096
5	277	12.608	12.638	-0.030
5	290	12.515	12.669	-0.154
10	291	12.546	12.669	-0.123
10	292	12.389	12.449	-0.060
10	293	12.515	12.544	-0.029
Max		12.703	12.763	0.096
Average		12.556	12.596	-0.040
Min		12.389	12.449	-0.154
Std Dev		0.086	0.118	0.087

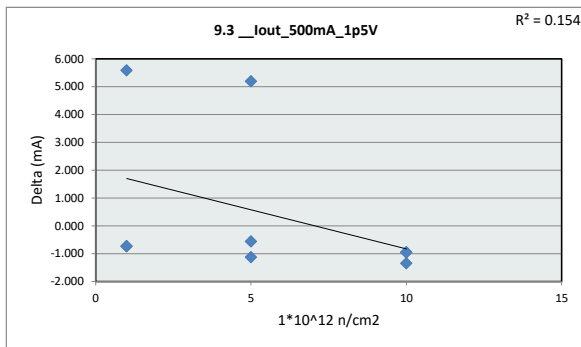


9.2_Ics_500mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	200	µA	
Min Limit	0	µA	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	12.449	12.481	12.449
Average	12.638	12.596	12.554
Max	12.763	12.669	12.669
UL	200.000	200.000	200.000

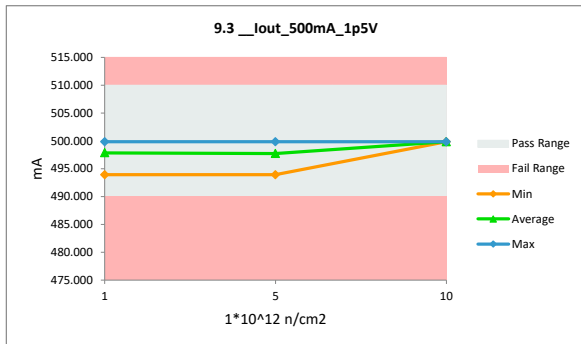


NDD Report TPS7H2201-SP

9.3 Iout_500mA_1p5V				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		510	510	
Min Limit		490	490	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	499.488	493.902	5.586
1	274	499.093	499.827	-0.734
1	275	499.093	499.827	-0.734
5	276	499.093	493.902	5.191
5	277	498.699	499.827	-1.128
5	290	498.872	499.432	-0.560
10	291	498.872	499.827	-0.955
10	292	498.477	499.827	-1.350
10	293	498.872	499.827	-0.955
Max		499.488	499.827	5.586
Average		498.951	498.466	0.485
Min		498.477	493.902	-1.350
Std Dev		0.286	2.591	2.792



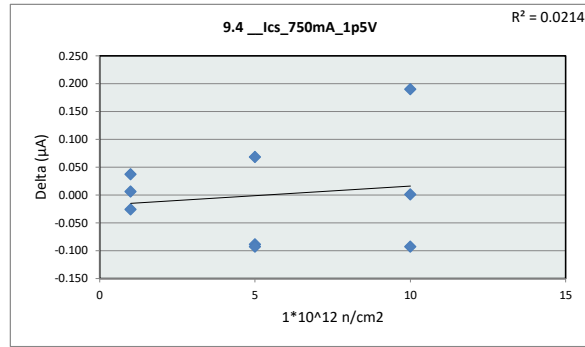
9.3 Iout_500mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	510	mA	
Min Limit	490	mA	
1*10 ¹² n/cm2	1	5	10
LL	490.000	490.000	490.000
Min	493.902	493.902	499.827
Average	497.852	497.720	499.827
Max	499.827	499.827	499.827
UL	510.000	510.000	510.000



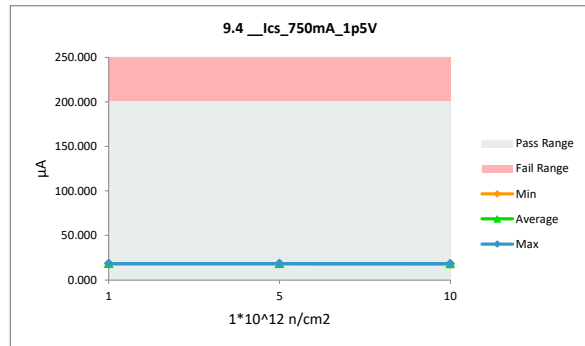
NDD Report
TPS7H2201-SP

9.4 Ics_750mA_1p5V	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	200
Min Limit	0

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	18.328	18.291	0.037
1	274	18.391	18.385	0.006
1	275	18.485	18.511	-0.026
5	276	18.422	18.511	-0.089
5	277	18.359	18.291	0.068
5	290	18.229	18.322	-0.093
10	291	18.229	18.322	-0.093
10	292	18.072	18.071	0.001
10	293	18.324	18.134	0.190
Max		18.485	18.511	0.190
Average		18.315	18.315	0.000
Min		18.072	18.071	-0.093
Std Dev		0.124	0.148	0.092



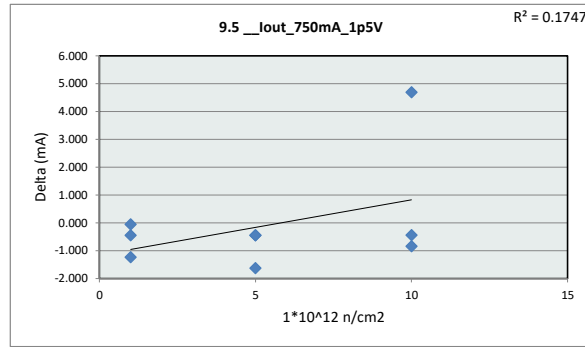
9.4 Ics_750mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	200	μA	
Min Limit	0	μA	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	18.291	18.291	18.071
Average	18.396	18.375	18.176
Max	18.511	18.511	18.322
UL	200.000	200.000	200.000



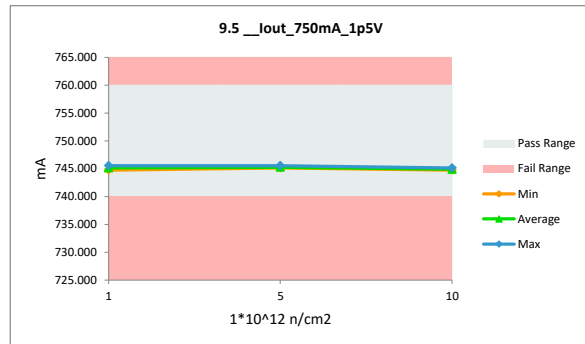
NDD Report
TPS7H2201-SP

9.5 Iout_750mA_1p5V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	760
Min Limit	740

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	744.288	745.529	-1.241
1	274	745.078	745.134	-0.056
1	275	744.288	744.739	-0.451
5	276	744.683	745.134	-0.451
5	277	744.683	745.134	-0.451
5	290	743.895	745.529	-1.634
10	291	744.291	744.739	-0.448
10	292	743.895	744.739	-0.844
10	293	749.823	745.134	4.689
	Max	749.823	745.529	4.689
	Average	744.992	745.090	-0.099
	Min	743.895	744.739	-1.634
	Std Dev	1.852	0.309	1.859

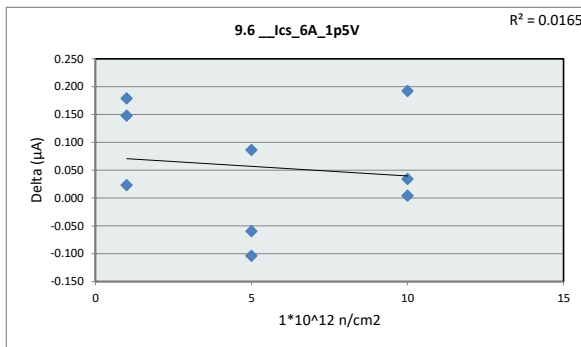


9.5 Iout_750mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	760	mA	
Min Limit	740	mA	
1*10 ¹² n/cm2	1	5	10
LL	740.000	740.000	740.000
Min	744.739	745.134	744.739
Average	745.134	745.266	744.871
Max	745.529	745.529	745.134
UL	760.000	760.000	760.000

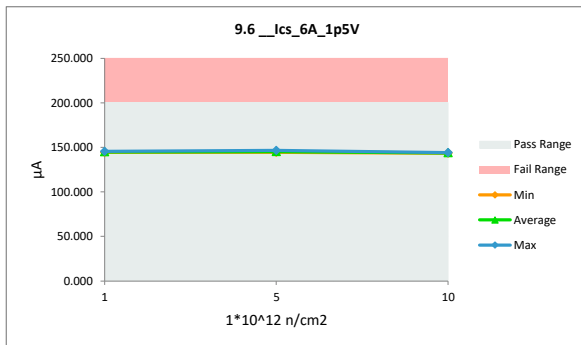


NDD Report TPS7H2201-SP

9.6_Ics_6A_1p5V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		200	200	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	144.599	144.420	0.179
1	274	145.039	144.891	0.148
1	275	145.448	145.425	0.023
5	276	146.579	146.493	0.086
5	277	144.410	144.514	-0.104
5	290	144.391	144.451	-0.060
10	291	144.140	144.106	0.034
10	292	143.387	143.383	0.004
10	293	144.329	144.137	0.192
Max		146.579	146.493	0.192
Average		144.702	144.647	0.056
Min		143.387	143.383	-0.104
Std Dev		0.906	0.890	0.104

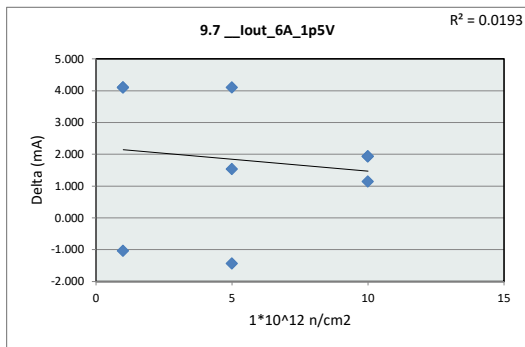


9.6_Ics_6A_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	200	µA	
Min Limit	0	µA	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	144.420	144.451	143.383
Average	144.912	145.153	143.875
Max	145.425	146.493	144.137
UL	200.000	200.000	200.000

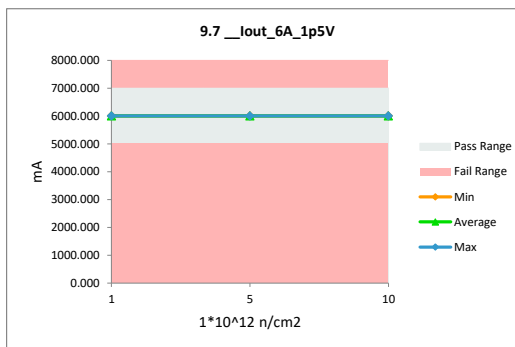


NDD Report TPS7H2201-SP

9.7 __Iout_6A_1p5V				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		7000	7000	
Min Limit		5000	5000	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	6003.430	5999.331	4.099
1	274	6003.430	5999.331	4.099
1	275	5997.896	5998.935	-1.039
5	276	6003.430	5999.331	4.099
5	277	5997.896	5999.331	-1.435
5	290	6000.867	5999.331	1.536
10	291	6000.472	5998.540	1.932
10	292	6000.472	5998.540	1.932
10	293	6000.472	5999.331	1.141
	Max	6003.430	5999.331	4.099
	Average	6000.930	5999.111	1.818
	Min	5997.896	5998.540	-1.435
	Std Dev	2.174	0.349	2.089

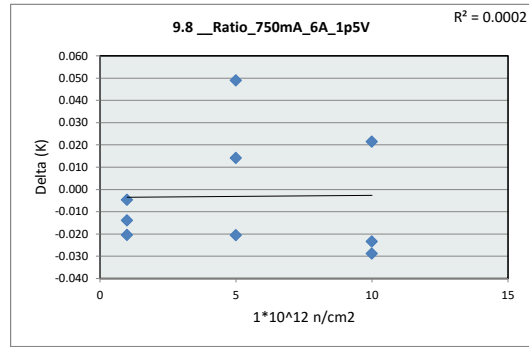


9.7 __Iout_6A_1p5V			
Test Site			
Tester			
Test Number			
Max Limit		7000	mA
Min Limit		5000	mA
1*10 ¹² n/cm2	1	5	10
LL	5000.000	5000.000	5000.000
Min	5998.935	5999.331	5998.540
Average	5999.199	5999.331	5998.804
Max	5999.331	5999.331	5999.331
UL	7000.000	7000.000	7000.000

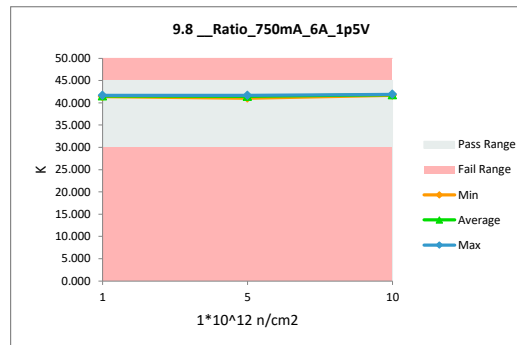


NDD Report TPS7H2201-SP

9.8_Ratio_750mA_6A_1p5V				
Test Site				
Tester				
Test Number				
Unit		K	K	
Max Limit		45	45	
Min Limit		30	30	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	41.650	41.654	-0.005
1	274	41.519	41.533	-0.014
1	275	41.379	41.400	-0.020
5	276	41.034	41.054	-0.021
5	277	41.675	41.626	0.049
5	290	41.668	41.654	0.014
10	291	41.745	41.769	-0.023
10	292	41.947	41.926	0.021
10	293	41.670	41.699	-0.029
	Max	41.947	41.926	0.049
	Average	41.588	41.591	-0.003
	Min	41.034	41.054	-0.029
	Std Dev	0.258	0.248	0.026



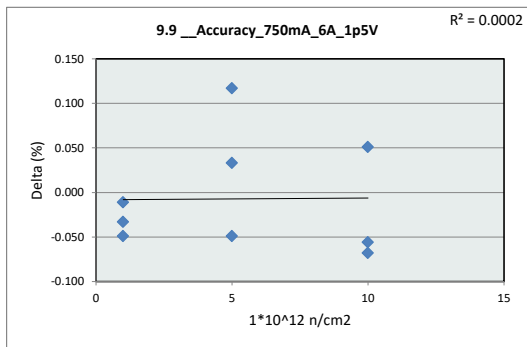
9.8_Ratio_750mA_6A_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	45	K	
Min Limit	30	K	
1*10 ¹² n/cm2	1	5	10
LL	30.000	30.000	30.000
Min	41.400	41.054	41.699
Average	41.529	41.445	41.798
Max	41.654	41.654	41.926
UL	45.000	45.000	45.000



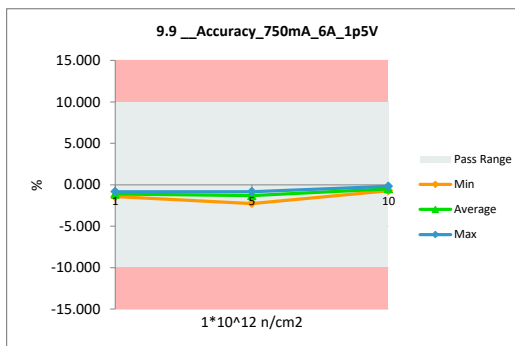
NDD Report
TPS7H2201-SP

9.9_Accuracy_750mA_6A_1p5V	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	9.9
Min Limit	-9.9

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	-0.834	-0.823	-0.011
1	274	-1.144	-1.111	-0.033
1	275	-1.478	-1.429	-0.049
5	276	-2.301	-2.252	-0.049
5	277	-0.773	-0.890	0.117
5	290	-0.790	-0.823	0.033
10	291	-0.607	-0.551	-0.056
10	292	-0.126	-0.177	0.051
10	293	-0.785	-0.717	-0.068
Max		-0.126	-0.177	0.117
Average		-0.982	-0.975	-0.007
Min		-2.301	-2.252	-0.068
Std Dev		0.615	0.591	0.062

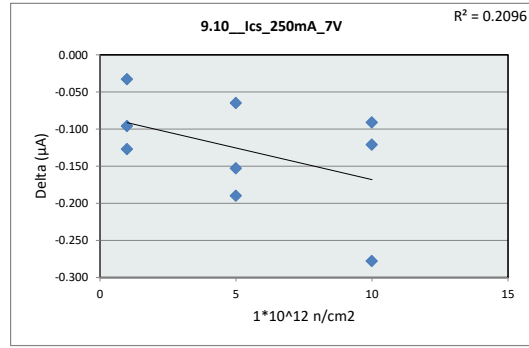


9.9_Accuracy_750mA_6A_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	%	
Min Limit	-9.9	%	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	-1.429	-2.252	-0.717
Average	-1.121	-1.322	-0.482
Max	-0.823	-0.823	-0.177
UL	9.900	9.900	9.900

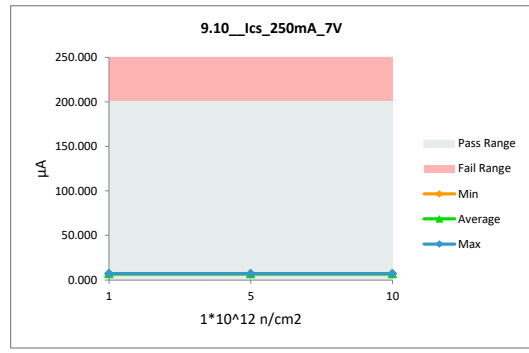


NDD Report
TPS7H2201-SP

9.10_Ics_250mA_7V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		200	200	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	6.920	7.047	-0.127
1	274	6.889	6.985	-0.096
1	275	6.983	7.016	-0.033
5	276	6.794	6.859	-0.065
5	277	6.920	7.110	-0.190
5	290	6.894	7.047	-0.153
10	291	6.894	6.985	-0.091
10	292	6.769	7.047	-0.278
10	293	6.769	6.890	-0.121
Max		6.983	7.110	-0.033
Average		6.870	6.998	-0.128
Min		6.769	6.859	-0.278
Std Dev		0.075	0.080	0.073

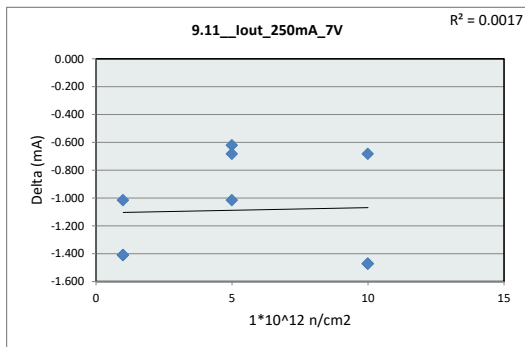


9.10_Ics_250mA_7V			
Test Site			
Tester			
Test Number			
Max Limit	200	µA	
Min Limit	0	µA	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	6.985	6.859	6.890
Average	7.016	7.005	6.974
Max	7.047	7.110	7.047
UL	200.000	200.000	200.000

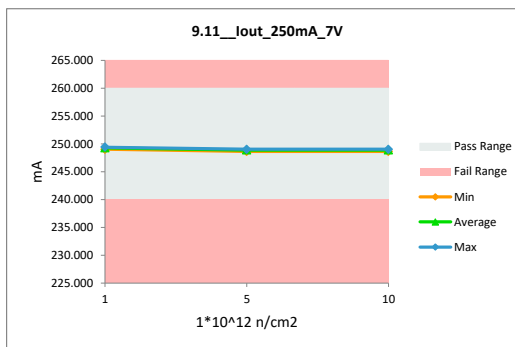


NDD Report
TPS7H2201-SP

9.11 Iout_250mA_7V				
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
	273	247.989	249.400	-1.411
	274	247.989	249.005	-1.016
	275	247.989	249.400	-1.411
	276	248.384	249.005	-0.621
	277	247.989	249.005	-1.016
	290	247.927	248.610	-0.683
	291	247.927	248.610	-0.683
	292	247.532	249.005	-1.473
	293	247.532	249.005	-1.473
	Max	248.384	249.400	-0.621
	Average	247.918	249.005	-1.087
	Min	247.532	248.610	-1.473
	Std Dev	0.259	0.279	0.364

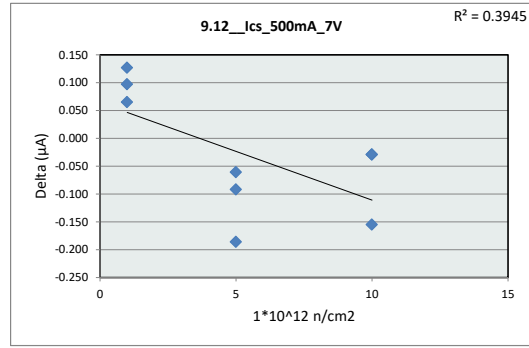


9.11 Iout_250mA_7V			
1*10 ¹² n/cm2	1	5	10
LL	240.000	240.000	240.000
Min	249.005	248.610	248.610
Average	249.268	248.873	248.873
Max	249.400	249.005	249.005
UL	260.000	260.000	260.000

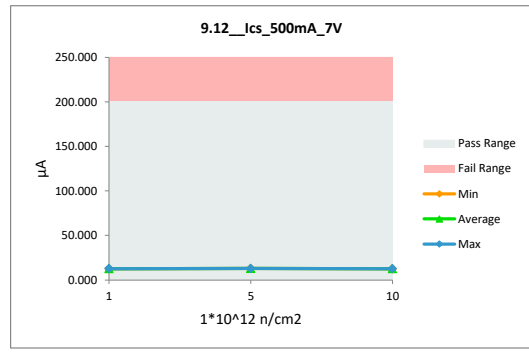


NDD Report
TPS7H2201-SP

9.12_Ics_500mA_7V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		200	200	
Min Limit		0	0	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	12.828	12.701	0.127
1	274	12.703	12.638	0.065
1	275	12.860	12.763	0.097
5	276	12.734	12.795	-0.061
5	277	12.828	12.920	-0.092
5	290	12.609	12.795	-0.186
10	291	12.640	12.669	-0.029
10	292	12.546	12.701	-0.155
10	293	12.452	12.481	-0.029
Max		12.860	12.920	0.127
Average		12.689	12.718	-0.029
Min		12.452	12.481	-0.186
Std Dev		0.139	0.123	0.109



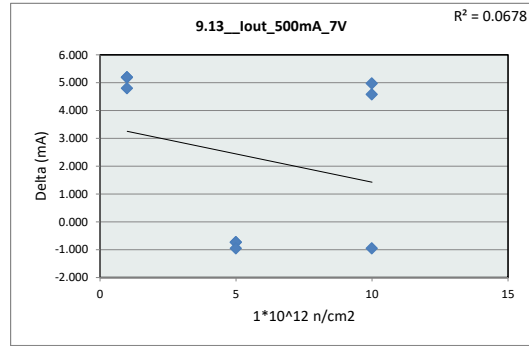
9.12_Ics_500mA_7V			
Test Site			
Tester			
Test Number			
Max Limit	200	µA	
Min Limit	0	µA	
1*10 ¹² n/cm ²	1	5	10
LL	0.000	0.000	0.000
Min	12.638	12.795	12.481
Average	12.701	12.837	12.617
Max	12.763	12.920	12.701
UL	200.000	200.000	200.000



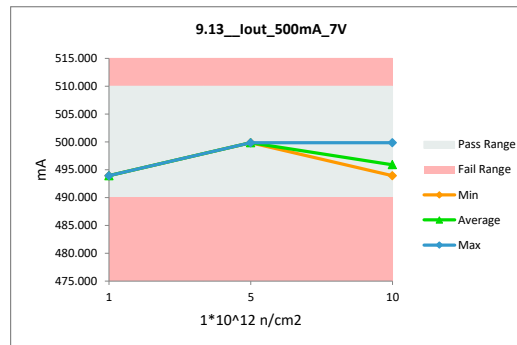
NDD Report
TPS7H2201-SP

9.13 Iout_500mA_7V	
Test Site	
Tester	
Test Number	
Unit	mA
Max Limit	510
Min Limit	490

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	499.093	493.902	5.191
1	274	498.699	493.902	4.797
1	275	499.093	493.902	5.191
5	276	499.093	499.827	-0.734
5	277	499.093	499.827	-0.734
5	290	498.872	499.827	-0.955
10	291	498.477	493.902	4.575
10	292	498.872	499.827	-0.955
10	293	498.872	493.902	4.970
Max		499.093	499.827	5.191
Average		498.907	496.535	2.372
Min		498.477	493.902	-0.955
Std Dev		0.215	3.123	3.058



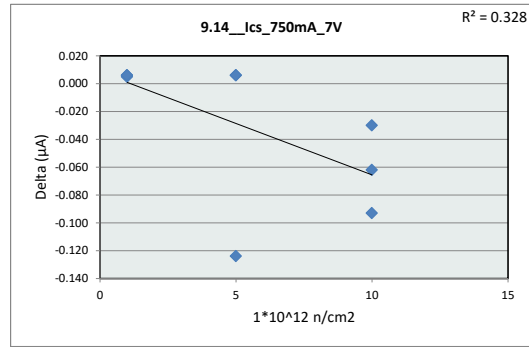
9.13 Iout_500mA_7V			
Test Site			
Tester			
Test Number			
Max Limit	510	mA	
Min Limit	490	mA	
1*10 ¹² n/cm2	1	5	10
LL	490.000	490.000	490.000
Min	493.902	499.827	493.902
Average	493.902	499.827	495.877
Max	493.902	499.827	499.827
UL	510.000	510.000	510.000



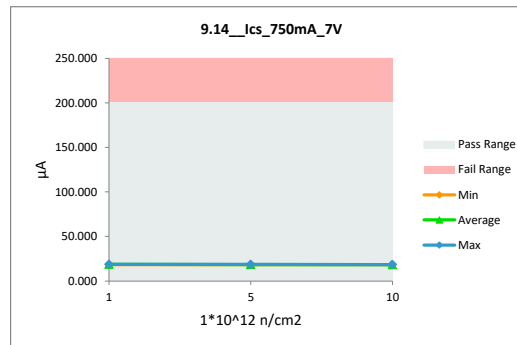
NDD Report
TPS7H2201-SP

9.14_Ics_750mA_7V	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	200
Min Limit	0

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	18.485	18.479	0.006
1	274	18.516	18.511	0.005
1	275	18.768	18.762	0.006
5	276	18.548	18.542	0.006
5	277	18.548	18.542	0.006
5	290	18.355	18.479	-0.124
10	291	18.324	18.354	-0.030
10	292	18.229	18.322	-0.093
10	293	18.198	18.260	-0.062
Max		18.768	18.762	0.006
Average		18.441	18.472	-0.031
Min		18.198	18.260	-0.124
Std Dev		0.181	0.149	0.050



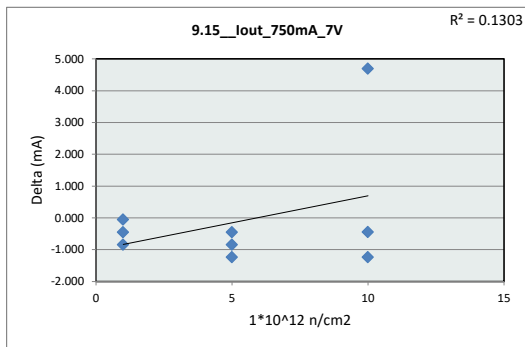
9.14_Ics_750mA_7V			
Test Site			
Tester			
Test Number			
Max Limit	200	μA	
Min Limit	0	μA	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	18.479	18.479	18.260
Average	18.584	18.521	18.312
Max	18.762	18.542	18.354
UL	200.000	200.000	200.000



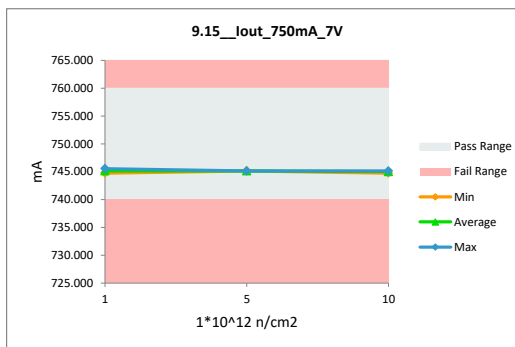
NDD Report
TPS7H2201-SP

9.15 Iout_750mA_7V		
Test Site		
Tester		
Test Number		
Unit	mA	mA
Max Limit	760	760
Min Limit	740	740

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	744.683	745.134	-0.451
1	274	744.683	744.739	-0.056
1	275	744.683	745.529	-0.846
5	276	744.288	745.134	-0.846
5	277	744.683	745.134	-0.451
5	290	743.895	745.134	-1.239
10	291	744.291	744.739	-0.448
10	292	749.823	745.134	4.689
10	293	743.895	745.134	-1.239
Max		749.823	745.529	4.689
Average		744.992	745.090	-0.099
Min		743.895	744.739	-1.239
Std Dev		1.841	0.237	1.838

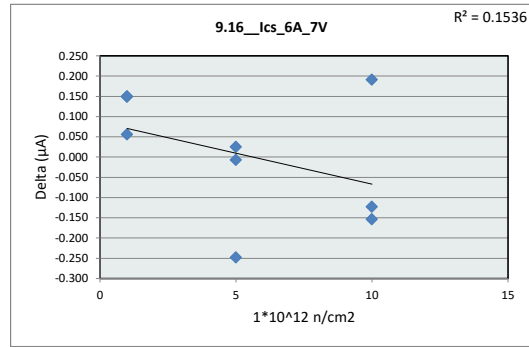


9.15 Iout_750mA_7V			
Test Site			
Tester			
Test Number			
Max Limit	760	mA	
Min Limit	740	mA	
1*10 ¹² n/cm2	1	5	10
LL	740.000	740.000	740.000
Min	744.739	745.134	744.739
Average	745.134	745.134	745.002
Max	745.529	745.134	745.134
UL	760.000	760.000	760.000

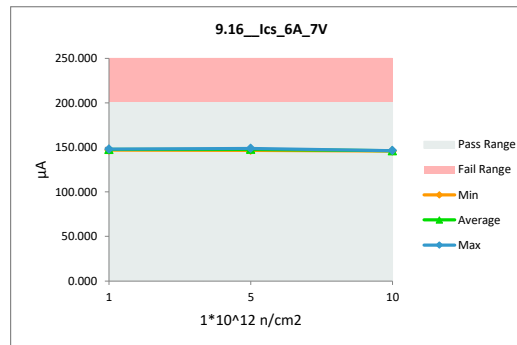


NDD Report
TPS7H2201-SP

9.16_Ics_6A_7V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		200	200	
Min Limit		0	0	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	147.050	146.901	0.149
1	274	147.773	147.623	0.150
1	275	148.150	148.094	0.056
5	276	148.967	148.942	0.025
5	277	147.679	147.686	-0.007
5	290	146.527	146.775	-0.248
10	291	146.275	146.398	-0.123
10	292	145.742	145.896	-0.154
10	293	146.150	145.959	0.191
Max		148.967	148.942	0.191
Average		147.146	147.142	0.004
Min		145.742	145.896	-0.248
Std Dev		1.067	1.023	0.152

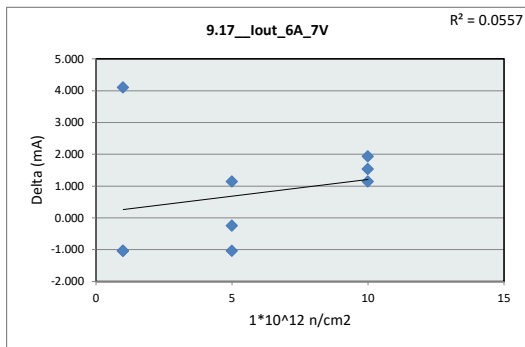


9.16_Ics_6A_7V			
Test Site			
Tester			
Test Number			
Max Limit	200	µA	
Min Limit	0	µA	
1*10 ¹² n/cm ²	1	5	10
LL	0.000	0.000	0.000
Min	146.901	146.775	145.896
Average	147.539	147.801	146.084
Max	148.094	148.942	146.398
UL	200.000	200.000	200.000

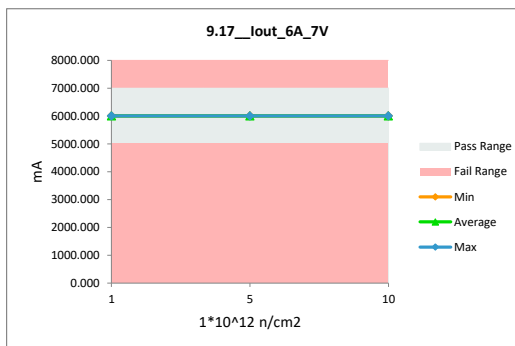


NDD Report TPS7H2201-SP

9.17_Iout_6A_7V				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		7000	7000	
Min Limit		5000	5000	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	5998.291	5999.331	-1.040
1	274	6003.430	5999.331	4.099
1	275	5998.291	5999.331	-1.040
5	276	5998.291	5998.540	-0.249
5	277	5997.896	5998.935	-1.039
5	290	6000.472	5999.331	1.141
10	291	6000.472	5999.331	1.141
10	292	6000.867	5998.935	1.932
10	293	6000.867	5999.331	1.536
	Max	6003.430	5999.331	4.099
	Average	5999.875	5999.155	0.720
	Min	5997.896	5998.540	-1.040
	Std Dev	1.829	0.287	1.737



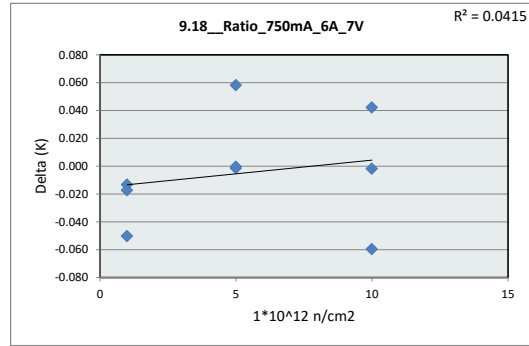
9.17_Iout_6A_7V			
Test Site			
Tester			
Test Number			
Max Limit		7000	mA
Min Limit		5000	mA
1*10 ¹² n/cm2	1	5	10
LL	5000.000	5000.000	5000.000
Min	5999.331	5998.540	5998.935
Average	5999.331	5998.935	5999.199
Max	5999.331	5999.331	5999.331
UL	7000.000	7000.000	7000.000



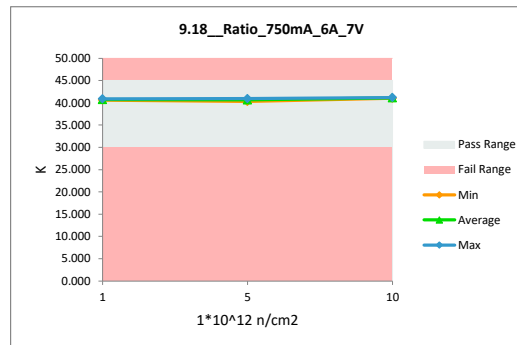
NDD Report
TPS7H2201-SP

9.18_Ratio_750mA_6A_7V	
Test Site	
Tester	
Test Number	
Unit	K
Max Limit	45
Min Limit	30

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	40.863	40.914	-0.050
1	274	40.685	40.698	-0.013
1	275	40.605	40.623	-0.017
5	276	40.285	40.287	-0.001
5	277	40.681	40.682	-0.001
5	290	41.012	40.954	0.058
10	291	41.079	41.037	0.042
10	292	41.181	41.183	-0.002
10	293	41.086	41.145	-0.060
Max		41.181	41.183	0.058
Average		40.831	40.836	-0.005
Min		40.285	40.287	-0.060
Std Dev		0.290	0.289	0.038



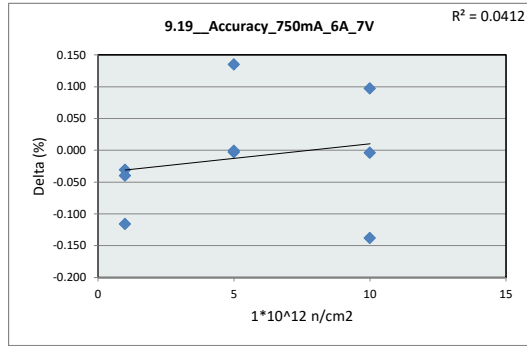
9.18_Ratio_750mA_6A_7V			
Test Site			
Tester			
Test Number			
Max Limit	45	K	
Min Limit	30	K	
1*10 ¹² n/cm2	1	5	10
LL	30.000	30.000	30.000
Min	40.623	40.287	41.037
Average	40.745	40.641	41.122
Max	40.914	40.954	41.183
UL	45.000	45.000	45.000



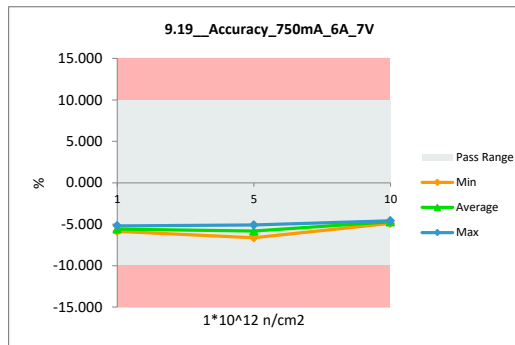
NDD Report
TPS7H2201-SP

9.19_Accuracy_750mA_6A_7V	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	9.9
Min Limit	-9.9

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	-5.310	-5.194	-0.116
1	274	-5.725	-5.694	-0.031
1	275	-5.908	-5.868	-0.040
5	276	-6.649	-6.646	-0.003
5	277	-5.732	-5.731	-0.001
5	290	-4.966	-5.101	0.135
10	291	-4.810	-4.907	0.097
10	292	-4.575	-4.571	-0.004
10	293	-4.795	-4.657	-0.138
	Max	-4.575	-4.571	0.135
	Average	-5.386	-5.374	-0.011
	Min	-6.649	-6.646	-0.138
	Std Dev	0.673	0.669	0.088

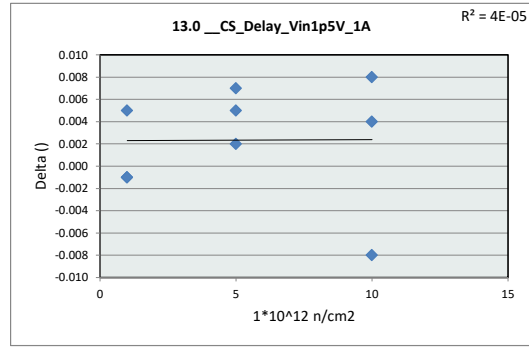


9.19_Accuracy_750mA_6A_7V			
Test Site			
Tester			
Test Number			
Max Limit	9.9	%	
Min Limit	-9.9	%	
1*10 ¹² n/cm2	1	5	10
LL	-9.900	-9.900	-9.900
Min	-5.868	-6.646	-4.907
Average	-5.585	-5.826	-4.712
Max	-5.194	-5.101	-4.571
UL	9.900	9.900	9.900

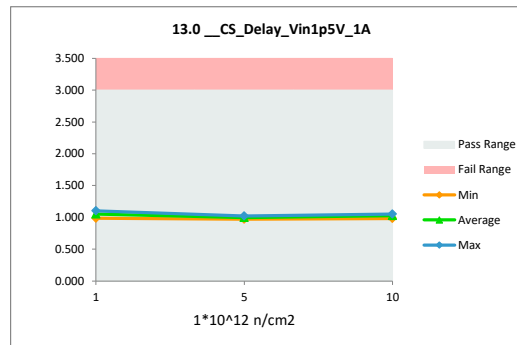


NDD Report
TPS7H2201-SP

13.0 CS_Delay_Vin1p5V_1A				
Test Site				
Tester				
Test Number				
Unit				
Max Limit		3	3	
Min Limit		0	0	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.991	0.986	0.005
1	274	1.069	1.070	-0.001
1	275	1.103	1.104	-0.001
5	276	0.974	0.972	0.002
5	277	1.030	1.023	0.007
5	290	1.002	0.997	0.005
10	291	1.061	1.053	0.008
10	292	0.974	0.982	-0.008
10	293	1.049	1.045	0.004
Max		1.103	1.104	0.008
Average		1.028	1.026	0.002
Min		0.974	0.972	-0.008
Std Dev		0.046	0.045	0.005



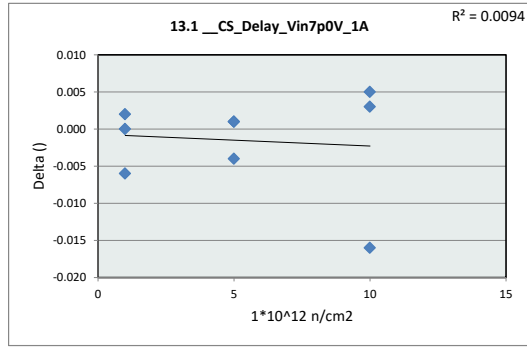
13.0 CS_Delay_Vin1p5V_1A			
Test Site			
Tester			
Test Number			
Max Limit		3	
Min Limit		0	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	0.986	0.972	0.982
Average	1.053	0.997	1.027
Max	1.104	1.023	1.053
UL	3.000	3.000	3.000



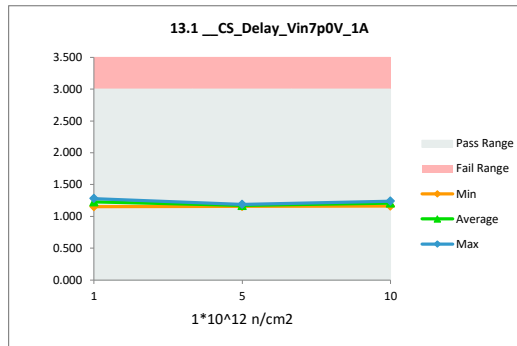
NDD Report
TPS7H2201-SP

13.1_CS_Delay_Vin7p0V_1A	
Test Site	
Tester	
Test Number	
Unit	
Max Limit	3
Min Limit	0

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	1.154	1.152	0.002
1	274	1.253	1.253	0.000
1	275	1.274	1.280	-0.006
5	276	1.157	1.156	0.001
5	277	1.189	1.188	0.001
5	290	1.163	1.167	-0.004
10	291	1.244	1.239	0.005
10	292	1.145	1.161	-0.016
10	293	1.228	1.225	0.003
	Max	1.274	1.280	0.005
	Average	1.201	1.202	-0.002
	Min	1.145	1.152	-0.016
	Std Dev	0.049	0.048	0.006

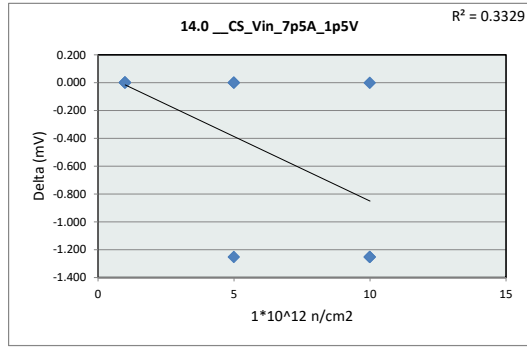


13.1_CS_Delay_Vin7p0V_1A			
Test Site			
Tester			
Test Number			
Max Limit	3		
Min Limit	0		
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	1.152	1.156	1.161
Average	1.228	1.170	1.208
Max	1.280	1.188	1.239
UL	3.000	3.000	3.000

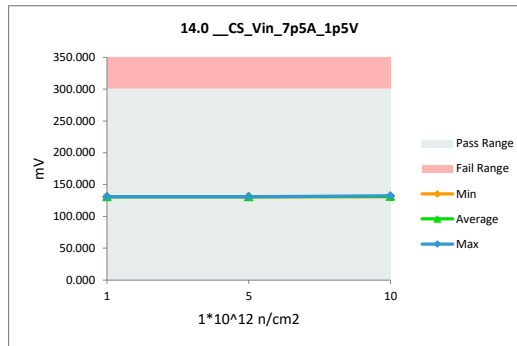


NDD Report
TPS7H2201-SP

14.0 CS_Vin_7p5A_1p5V				
Test Site				
Tester				
Test Number				
Unit		mV	mV	
Max Limit		300	300	
Min Limit		0	0	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	130.953	130.952	0.001
1	274	130.953	130.952	0.001
1	275	130.952	130.952	0.000
5	276	130.953	130.953	0.000
5	277	130.952	130.952	0.000
5	290	129.699	130.952	-1.253
10	291	129.699	130.953	-1.254
10	292	130.952	132.206	-1.254
10	293	130.952	130.953	-0.001
Max		130.953	132.206	0.001
Average		130.674	131.092	-0.418
Min		129.699	130.952	-1.254
Std Dev		0.553	0.418	0.627

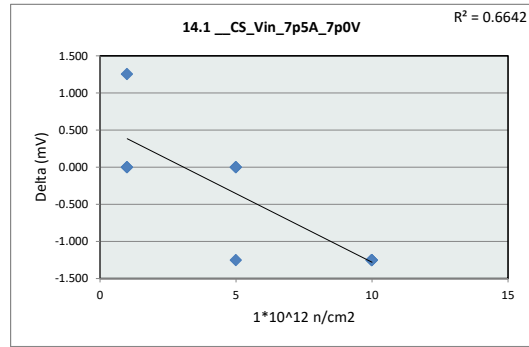


14.0 CS_Vin_7p5A_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	300		mV
Min Limit	0		mV
1*10 ¹² n/cm ²	1	5	10
LL	0.000	0.000	0.000
Min	130.952	130.952	130.953
Average	130.952	130.952	131.371
Max	130.952	130.953	132.206
UL	300.000	300.000	300.000

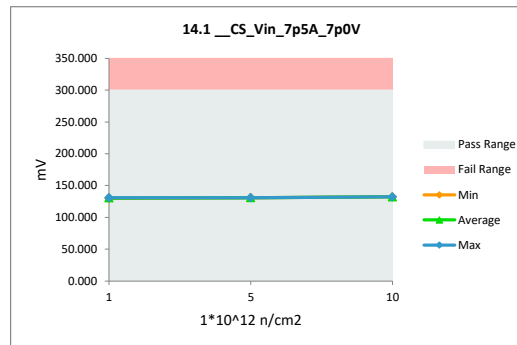


NDD Report
TPS7H2201-SP

14.1_CS_Vin_7p5A_7p0V				
Test Site				
Tester				
Test Number				
Unit	mV	mV		
Max Limit	300	300		
Min Limit	0	0		
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	130.952	130.952	0.000
1	274	130.952	130.952	0.000
1	275	130.952	129.699	1.253
5	276	130.952	130.952	0.000
5	277	129.699	130.952	-1.253
5	290	130.952	130.952	0.000
10	291	130.952	132.206	-1.254
10	292	130.952	132.206	-1.254
10	293	130.952	132.206	-1.254
Max		130.952	132.206	1.253
Average		130.813	131.231	-0.418
Min		129.699	129.699	-1.254
Std Dev		0.418	0.836	0.886



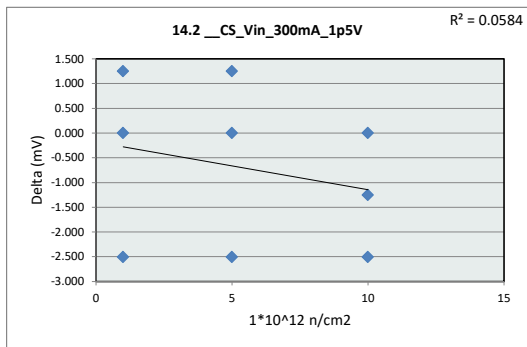
14.1_CS_Vin_7p5A_7p0V			
Test Site			
Tester			
Test Number			
Max Limit	300	mV	
Min Limit	0	mV	
1*10 ¹² n/cm ²	1	5	10
LL	0.000	0.000	0.000
Min	129.699	130.952	132.206
Average	130.534	130.952	132.206
Max	130.952	130.952	132.206
UL	300.000	300.000	300.000



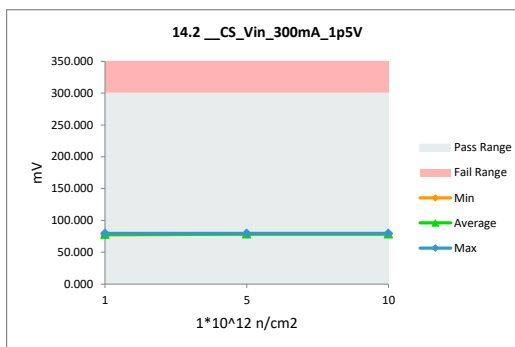
NDD Report TPS7H2201-SP

14.2_CS_Vin_300mA_1p5V	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	300
Min Limit	0

1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	77.068	77.068	0.000
1	274	78.321	77.068	1.253
1	275	77.068	79.574	-2.506
5	276	77.068	79.574	-2.506
5	277	79.574	78.321	1.253
5	290	78.321	78.321	0.000
10	291	78.321	78.321	0.000
10	292	78.321	79.574	-1.253
10	293	75.815	78.321	-2.506
Max		79.574	79.574	1.253
Average		77.764	78.460	-0.696
Min		75.815	77.068	-2.506
Std Dev		1.105	0.980	1.549



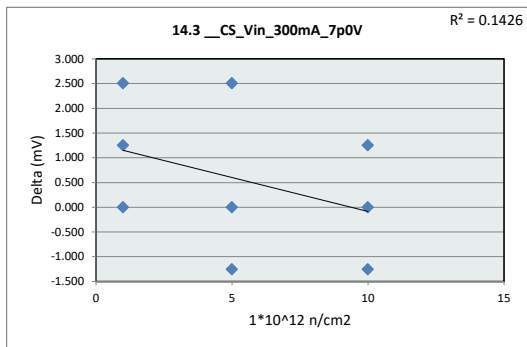
14.2_CS_Vin_300mA_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	300	mV	
Min Limit	0	mV	
1*10 ¹² n/cm ²	1	5	10
LL	0.000	0.000	0.000
Min	77.068	78.321	78.321
Average	77.903	78.739	78.739
Max	79.574	79.574	79.574
UL	300.000	300.000	300.000



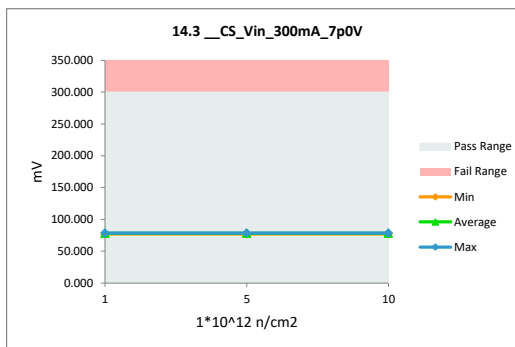
NDD Report TPS7H2201-SP

14.3 CS_Vin_300mA_7p0V	
Test Site	
Tester	
Test Number	
Unit	mV
Max Limit	300
Min Limit	0

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	78.321	78.321	0.000
1	274	79.574	78.321	1.253
1	275	79.574	77.068	2.506
5	276	79.574	77.068	2.506
5	277	78.321	78.321	0.000
5	290	77.068	78.321	-1.253
10	291	78.321	77.068	1.253
10	292	78.321	78.321	0.000
10	293	77.068	78.321	-1.253
Max		79.574	78.321	2.506
Average		78.460	77.903	0.557
Min		77.068	77.068	-1.253
Std Dev		0.980	0.626	1.416



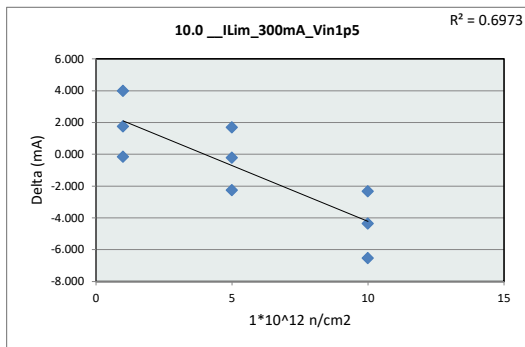
14.3 CS_Vin_300mA_7p0V			
Test Site			
Tester			
Test Number			
Max Limit	300	mV	
Min Limit	0	mV	
1*10 ¹² n/cm2	1	5	10
LL	0.000	0.000	0.000
Min	77.068	77.068	77.068
Average	77.903	77.903	77.903
Max	78.321	78.321	78.321
UL	300.000	300.000	300.000



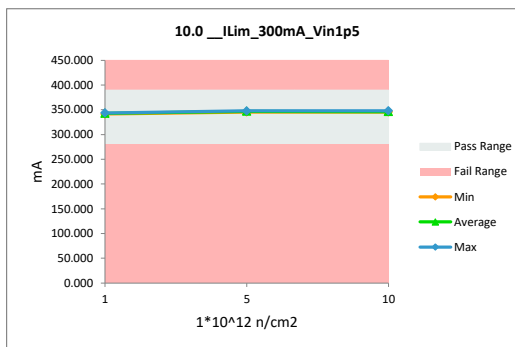
NDD Report
TPS7H2201-SP

		10.0_ILim_300mA_Vin1p5	
Test Site			
Tester			
Test Number			
Unit		mA	mA
Max Limit		390	390
Min Limit		280	280

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	345.469	341.483	3.986
1	274	343.366	343.521	-0.155
1	275	345.403	343.653	1.750
5	276	345.403	347.663	-2.260
5	277	347.441	347.663	-0.222
5	290	347.311	345.625	1.686
10	291	341.258	345.625	-4.367
10	292	341.192	347.729	-6.537
10	293	343.232	345.560	-2.328
Max		347.441	347.729	3.986
Average		344.453	345.391	-0.939
Min		341.192	341.483	-6.537
Std Dev		2.330	2.171	3.284



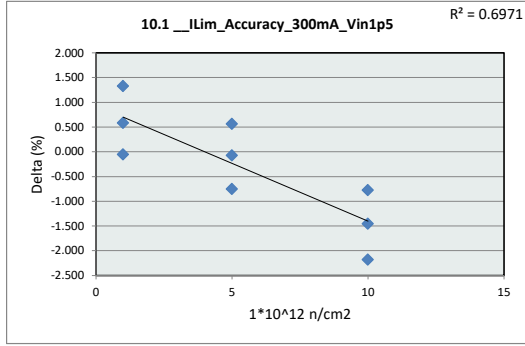
		10.0_ILim_300mA_Vin1p5		
Test Site				
Tester				
Test Number				
Max Limit		390	mA	
Min Limit		280	mA	
1*10 ¹² n/cm2		1	5	10
LL		280.000	280.000	280.000
Min		341.483	345.625	345.560
Average		342.886	346.984	346.305
Max		343.653	347.663	347.729
UL		390.000	390.000	390.000



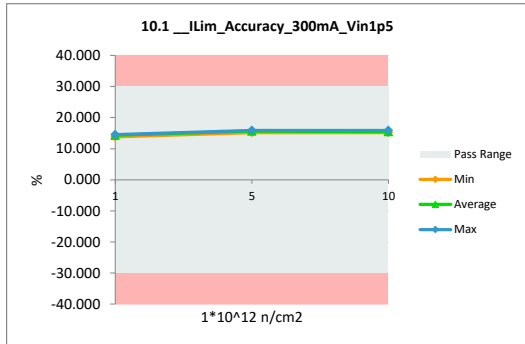
NDD Report
TPS7H2201-SP

10.1_ILim_Accuracy_300mA_V		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	30	30
Min Limit	-30	-30

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	15.156	13.828	1.328
1	274	14.455	14.507	-0.052
1	275	15.134	14.551	0.583
5	276	15.134	15.888	-0.754
5	277	15.814	15.888	-0.074
5	290	15.770	15.208	0.562
10	291	13.753	15.208	-1.455
10	292	13.731	15.910	-2.179
10	293	14.411	15.187	-0.776
Max		15.814	15.910	1.328
Average		14.818	15.131	-0.313
Min		13.731	13.828	-2.179
Std Dev		0.777	0.724	1.094

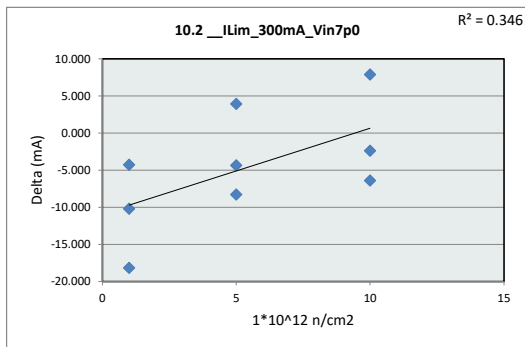


10.1_ILim_Accuracy_300mA			
Test Site			
Tester			
Test Number			
Max Limit	30	%	
Min Limit	-30	%	
1*10 ¹² n/cm2	1	5	10
LL	-30.000	-30.000	-30.000
Min	13.828	15.208	15.187
Average	14.295	15.661	15.435
Max	14.551	15.888	15.910
UL	30.000	30.000	30.000

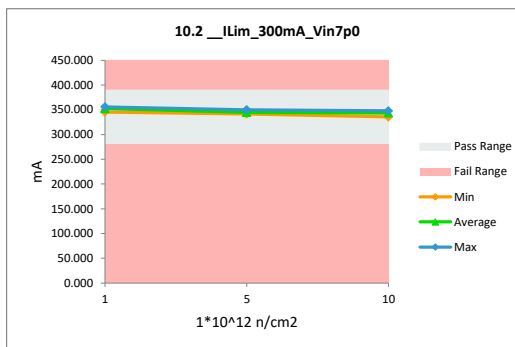


NDD Report TPS7H2201-SP

10.2_ILim_300mA_Vin7p0				
Test Site				
Tester				
Test Number				
Unit		mA	mA	
Max Limit		390	390	
Min Limit		280	280	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	345.338	355.553	-10.215
1	274	341.328	345.625	-4.297
1	275	337.318	355.487	-18.169
5	276	345.469	341.549	3.920
5	277	341.393	349.702	-8.309
5	290	339.218	343.587	-4.369
10	291	343.298	335.435	7.863
10	292	341.258	347.663	-6.405
10	293	345.271	347.663	-2.392
Max		345.469	355.553	7.863
Average		342.210	346.918	-4.708
Min		337.318	335.435	-18.169
Std Dev		2.877	6.426	7.628



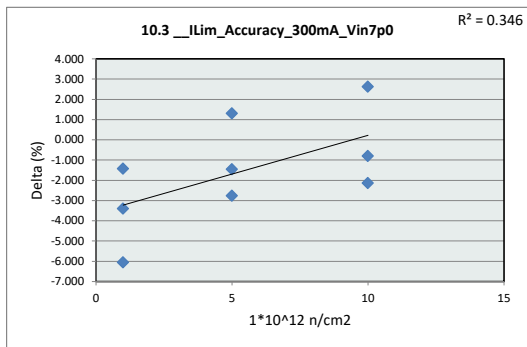
10.2_ILim_300mA_Vin7p0			
Test Site			
Tester			
Test Number			
Max Limit	390	mA	
Min Limit	280	mA	
1*10 ¹² n/cm2	1	5	10
LL	280.000	280.000	280.000
Min	345.625	341.549	335.435
Average	352.222	344.946	343.587
Max	355.553	349.702	347.663
UL	390.000	390.000	390.000



NDD Report
TPS7H2201-SP

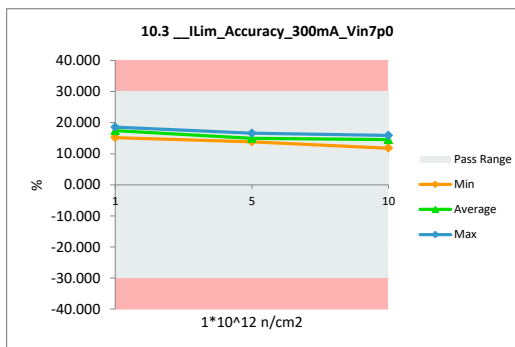
10.3_ILim_Accuracy_300mA_V	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	30
Min Limit	-30

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	15.113	18.518	-3.405
1	274	13.776	15.208	-1.432
1	275	12.439	18.496	-6.057
5	276	15.156	13.850	1.306
5	277	13.798	16.567	-2.769
5	290	13.073	14.529	-1.456
10	291	14.433	11.812	2.621
10	292	13.753	15.888	-2.135
10	293	15.090	15.888	-0.798
	Max	15.156	18.518	2.621
	Average	14.070	15.640	-1.569
	Min	12.439	11.812	-6.057
	Std Dev	0.959	2.142	2.543



10.3_ILim_Accuracy_300mA	
Test Site	
Tester	
Test Number	
Max Limit	30 %
Min Limit	-30 %

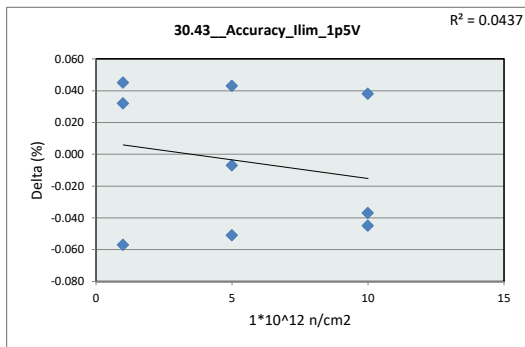
1*10 ¹² n/cm2	1	5	10
LL	-30.000	-30.000	-30.000
Min	15.208	13.850	11.812
Average	17.407	14.982	14.529
Max	18.518	16.567	15.888
UL	30.000	30.000	30.000



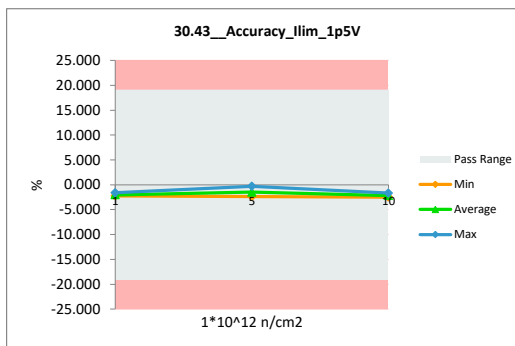
NDD Report TPS7H2201-SP

30.43_Accuracy_Ilim_1p5V		
Test Site		
Tester		
Test Number		
Unit	%	%
Max Limit	19	19
Min Limit	-19	-19

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	-2.272	-2.215	-0.057
1	274	-1.561	-1.593	0.032
1	275	-2.191	-2.236	0.045
5	276	-0.297	-0.290	-0.007
5	277	-1.744	-1.787	0.043
5	290	-2.432	-2.381	-0.051
10	291	-2.506	-2.469	-0.037
10	292	-1.640	-1.678	0.038
10	293	-2.348	-2.303	-0.045
Max		-0.297	-0.290	0.045
Average		-1.888	-1.884	-0.004
Min		-2.506	-2.469	-0.057
Std Dev		0.694	0.678	0.044



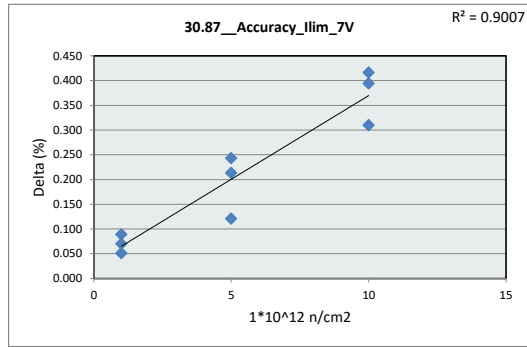
30.43_Accuracy_Ilim_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	19	%	
Min Limit	-19	%	
1*10 ¹² n/cm2	1	5	10
LL	-19.000	-19.000	-19.000
Min	-2.236	-2.381	-2.469
Average	-2.015	-1.486	-2.150
Max	-1.593	-0.290	-1.678
UL	19.000	19.000	19.000



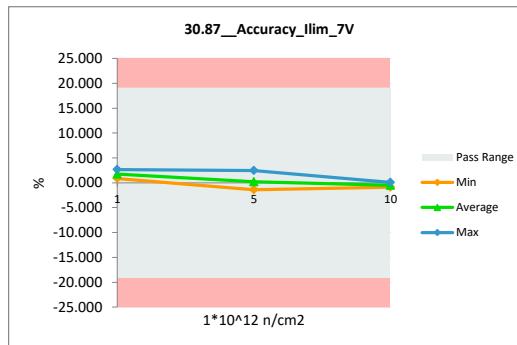
NDD Report
TPS7H2201-SP

30.87_Accuracy_Ilim_7V	
Test Site	
Tester	
Test Number	
Unit	%
Max Limit	19
Min Limit	-19

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	1.765	1.695	0.070
1	274	2.710	2.659	0.051
1	275	0.973	0.884	0.089
5	276	-1.151	-1.394	0.243
5	277	2.607	2.486	0.121
5	290	-0.226	-0.439	0.213
10	291	-0.300	-0.694	0.394
10	292	0.386	0.076	0.310
10	293	-0.476	-0.892	0.416
	Max	2.710	2.659	0.416
	Average	0.699	0.487	0.212
	Min	-1.151	-1.394	0.051
	Std Dev	1.399	1.508	0.139

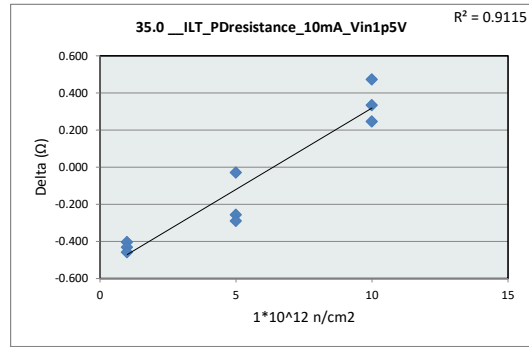


30.87_Accuracy_Ilim_7V			
Test Site			
Tester			
Test Number			
Max Limit	19	%	
Min Limit	-19	%	
1*10 ¹² n/cm2	1	5	10
LL	-19.000	-19.000	-19.000
Min	0.884	-1.394	-0.892
Average	1.746	0.218	-0.503
Max	2.659	2.486	0.076
UL	19.000	19.000	19.000

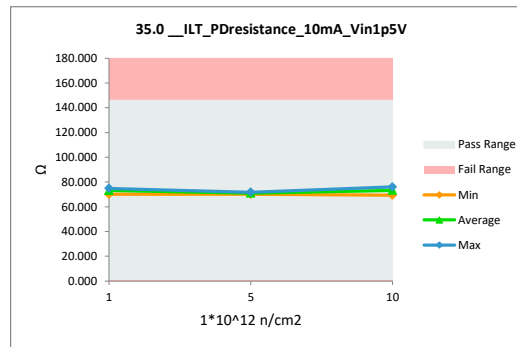


NDD Report
TPS7H2201-SP

35.0_ILT_PDresistance_10mA				
Test Site				
Tester				
Test Number				
Unit		Ω	Ω	
Max Limit		146	146	
Min Limit		0.05	0.05	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	74.492	74.896	-0.404
1	274	69.622	70.054	-0.432
1	275	74.141	74.600	-0.459
5	276	69.851	70.108	-0.257
5	277	70.724	71.014	-0.290
5	290	71.750	71.779	-0.029
10	291	76.540	76.067	0.473
10	292	74.734	74.400	0.334
10	293	69.607	69.361	0.246
Max		76.540	76.067	0.473
Average		72.385	72.475	-0.091
Min		69.607	69.361	-0.459
Std Dev		2.628	2.519	0.359



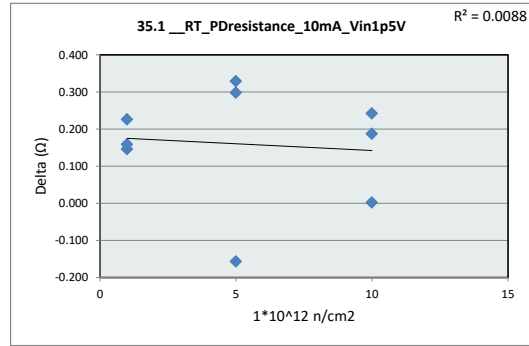
35.0_ILT_PDresistance_10mA			
Test Site			
Tester			
Test Number			
Max Limit	146	Ω	
Min Limit	0.05	Ω	
1*10 ¹² n/cm ²	1	5	10
LL	0.050	0.050	0.050
Min	70.054	70.108	69.361
Average	73.183	70.967	73.276
Max	74.896	71.779	76.067
UL	146.000	146.000	146.000



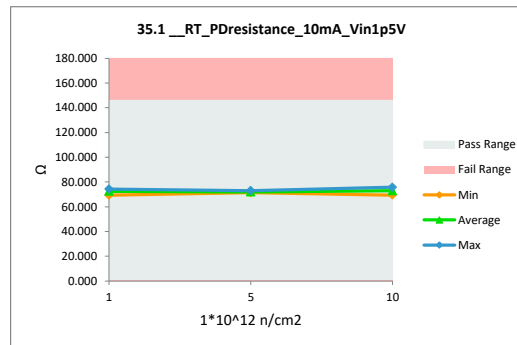
NDD Report
TPS7H2201-SP

35.1_RT_PDresistance_10mA	
Test Site	
Tester	
Test Number	
Unit	Ω
Max Limit	146
Min Limit	0.05

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	74.167	73.941	0.226
1	274	69.419	69.273	0.146
1	275	74.508	74.349	0.159
5	276	71.814	71.516	0.298
5	277	71.768	71.439	0.329
5	290	72.811	72.968	-0.157
10	291	75.942	75.700	0.242
10	292	73.703	73.516	0.187
10	293	69.427	69.425	0.002
Max		75.942	75.700	0.329
Average		72.618	72.459	0.159
Min		69.419	69.273	-0.157
Std Dev		2.237	2.206	0.152



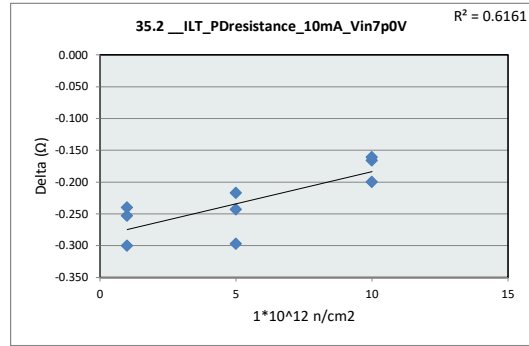
35.1_RT_PDresistance_10mA			
Test Site			
Tester			
Test Number			
Max Limit	146	Ω	
Min Limit	0.05	Ω	
1*10 ¹² n/cm2	1	5	10
LL	0.050	0.050	0.050
Min	69.273	71.439	69.425
Average	72.521	71.974	72.880
Max	74.349	72.968	75.700
UL	146.000	146.000	146.000



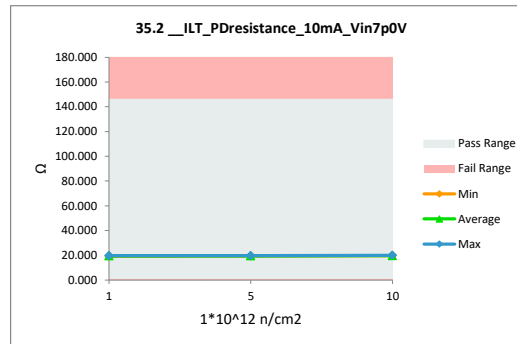
NDD Report
TPS7H2201-SP

35.2_ILT_PDresistance_10mA	
Test Site	
Tester	
Test Number	
Unit	Ω
Max Limit	146
Min Limit	0.05

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	19.232	19.485	-0.253
1	274	19.039	19.279	-0.240
1	275	19.326	19.626	-0.300
5	276	19.139	19.382	-0.243
5	277	19.126	19.423	-0.297
5	290	19.498	19.715	-0.217
10	291	19.500	19.666	-0.166
10	292	19.377	19.577	-0.200
10	293	19.729	19.890	-0.161
Max		19.729	19.890	-0.161
Average		19.330	19.560	-0.231
Min		19.039	19.279	-0.300
Std Dev		0.221	0.188	0.050



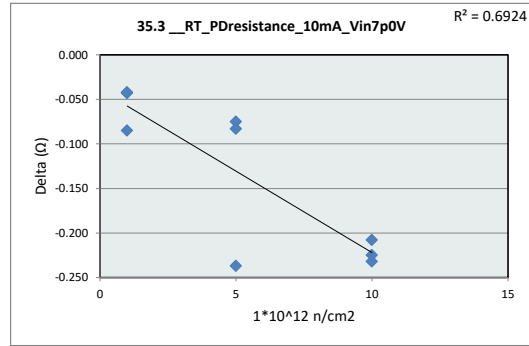
35.2_ILT_PDresistance_10m			
Test Site			
Tester			
Test Number			
Max Limit	146	Ω	
Min Limit	0.05	Ω	
1*10 ¹² n/cm2	1	5	10
LL	0.050	0.050	0.050
Min	19.279	19.382	19.577
Average	19.463	19.507	19.711
Max	19.626	19.715	19.890
UL	146.000	146.000	146.000



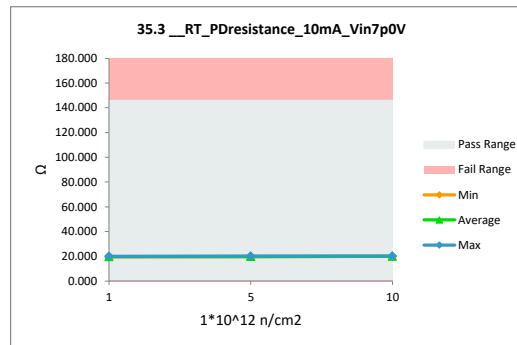
NDD Report
TPS7H2201-SP

35.3 RT_PDresistance_10mA	
Test Site	
Tester	
Test Number	
Unit	Ω
Max Limit	146
Min Limit	0.05

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	19.686	19.729	-0.043
1	274	19.502	19.544	-0.042
1	275	19.822	19.907	-0.085
5	276	19.546	19.621	-0.075
5	277	19.589	19.672	-0.083
5	290	19.836	20.073	-0.237
10	291	19.827	20.035	-0.208
10	292	19.642	19.874	-0.232
10	293	19.956	20.181	-0.225
Max		19.956	20.181	-0.042
Average		19.712	19.848	-0.137
Min		19.502	19.544	-0.237
Std Dev		0.155	0.221	0.086

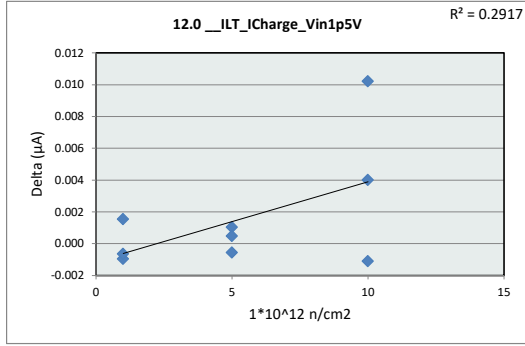


35.3 RT_PDresistance_10mA			
Test Site			
Tester			
Test Number			
Max Limit	146	Ω	
Min Limit	0.05	Ω	
1*10 ¹² n/cm2	1	5	10
LL	0.050	0.050	0.050
Min	19.544	19.621	19.874
Average	19.727	19.789	20.030
Max	19.907	20.073	20.181
UL	146.000	146.000	146.000

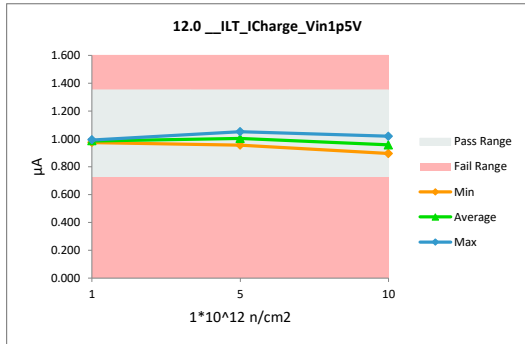


NDD Report
TPS7H2201-SP

		12.0_ILT_ICharge_Vin1p5V		
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		1.35	1.35	
Min Limit		0.72	0.72	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	0.991	0.992	-0.001
1	274	0.973	0.974	-0.001
1	275	0.991	0.990	0.002
5	276	0.955	0.953	0.001
5	277	1.002	1.001	0.000
5	290	1.051	1.051	-0.001
10	291	0.959	0.955	0.004
10	292	1.028	1.018	0.010
10	293	0.893	0.894	-0.001
	Max	1.051	1.051	0.010
	Average	0.983	0.981	0.002
	Min	0.893	0.894	-0.001
	Std Dev	0.046	0.045	0.004

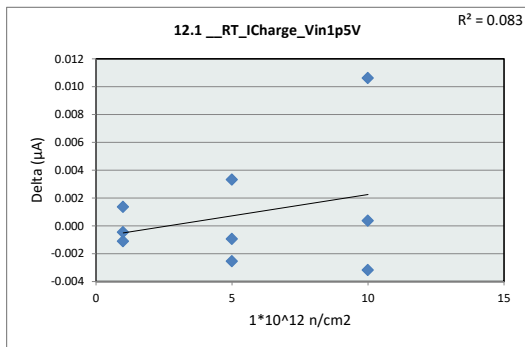


		12.0_ILT_ICharge_Vin1p5V		
Test Site				
Tester				
Test Number				
Max Limit		1.35	µA	
Min Limit		0.72	µA	
1*10 ¹² n/cm ²		1	5	10
LL		0.720	0.720	0.720
Min		0.974	0.953	0.894
Average		0.985	1.002	0.956
Max		0.992	1.051	1.018
UL		1.350	1.350	1.350

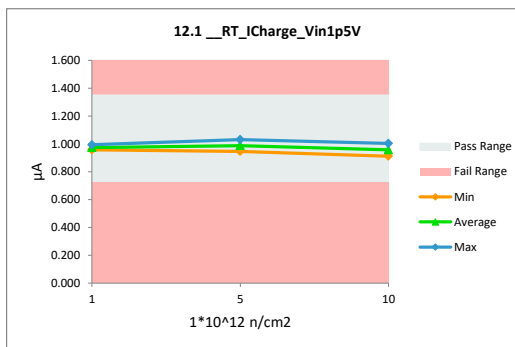


NDD Report
TPS7H2201-SP

		12.1_RT_ICharge_Vin1p5V		
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		1.35	1.35	
Min Limit		0.72	0.72	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	0.956	0.957	-0.001
1	274	0.971	0.971	0.000
1	275	0.994	0.993	0.001
5	276	0.943	0.946	-0.003
5	277	0.991	0.987	0.003
5	290	1.029	1.030	-0.001
10	291	0.958	0.958	0.000
10	292	1.013	1.002	0.011
10	293	0.909	0.912	-0.003
	Max	1.029	1.030	0.011
	Average	0.974	0.973	0.001
	Min	0.909	0.912	-0.003
	Std Dev	0.037	0.035	0.004

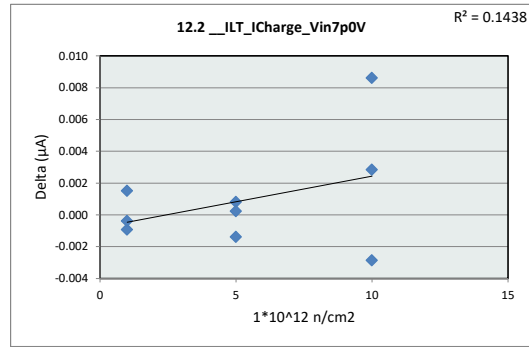


12.1_RT_ICharge_Vin1p5V			
Test Site			
Tester			
Test Number			
Max Limit	1.35	µA	
Min Limit	0.72	µA	
1*10 ¹² n/cm ²	1	5	10
LL	0.720	0.720	0.720
Min	0.957	0.946	0.912
Average	0.974	0.987	0.957
Max	0.993	1.030	1.002
UL	1.350	1.350	1.350

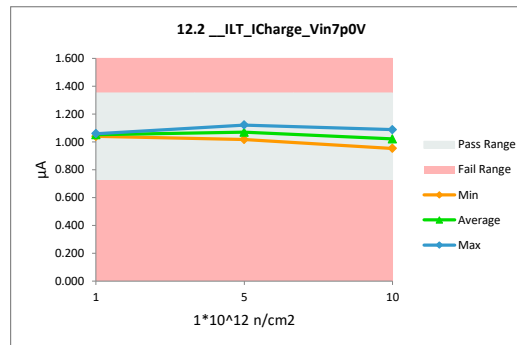


NDD Report
TPS7H2201-SP

12.2_ILT_ICharge_Vin7p0V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		1.35	1.35	
Min Limit		0.72	0.72	
1*10 ¹² n/cm ²	Serial #	pre NDD	post NDD	Delta
1	273	1.058	1.059	-0.001
1	274	1.038	1.039	0.000
1	275	1.057	1.055	0.002
5	276	1.017	1.017	0.001
5	277	1.069	1.069	0.000
5	290	1.119	1.121	-0.001
10	291	1.025	1.022	0.003
10	292	1.096	1.087	0.009
10	293	0.950	0.953	-0.003
Max		1.119	1.121	0.009
Average		1.048	1.047	0.001
Min		0.950	0.953	-0.003
Std Dev		0.049	0.048	0.003



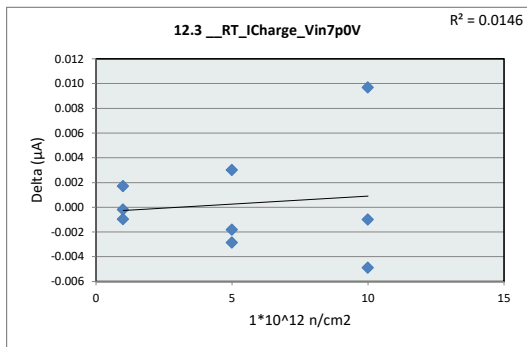
12.2_ILT_ICharge_Vin7p0V			
Test Site			
Tester			
Test Number			
Max Limit		1.35	µA
Min Limit		0.72	µA
1*10 ¹² n/cm ²	1	5	10
LL	0.720	0.720	0.720
Min	1.039	1.017	0.953
Average	1.051	1.069	1.021
Max	1.059	1.121	1.087
UL	1.350	1.350	1.350



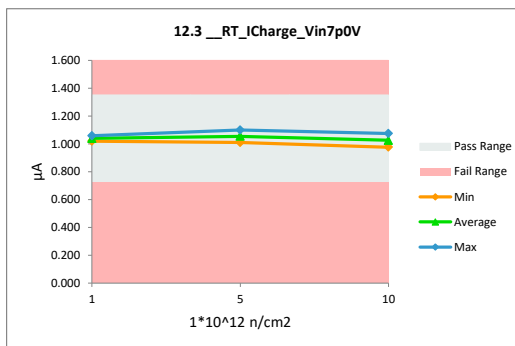
NDD Report TPS7H2201-SP

		12.3 RT_ICharge_Vin7p0V	
Test Site			
Tester			
Test Number			
Unit		µA	µA
Max Limit		1.35	1.35
Min Limit		0.72	0.72

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	1.018	1.019	-0.001
1	274	1.038	1.038	0.000
1	275	1.060	1.058	0.002
5	276	1.007	1.010	-0.003
5	277	1.057	1.054	0.003
5	290	1.098	1.100	-0.002
10	291	1.024	1.025	-0.001
10	292	1.083	1.074	0.010
10	293	0.971	0.976	-0.005
Max		1.098	1.100	0.010
Average		1.040	1.039	0.000
Min		0.971	0.976	-0.005
Std Dev		0.040	0.037	0.004



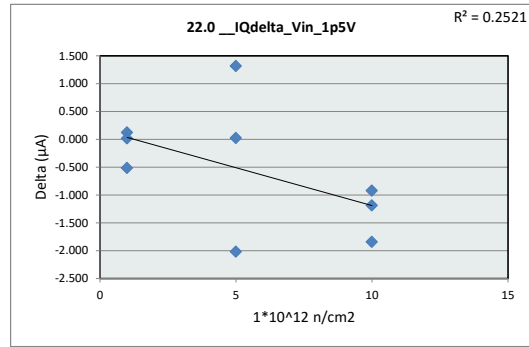
		12.3 RT_ICharge_Vin7p0V		
Test Site				
Tester				
Test Number				
Max Limit		1.35	µA	
Min Limit		0.72	µA	
1*10 ¹² n/cm2		1	5	10
LL		0.720	0.720	0.720
Min		1.019	1.010	0.976
Average		1.039	1.054	1.025
Max		1.058	1.100	1.074
UL		1.350	1.350	1.350



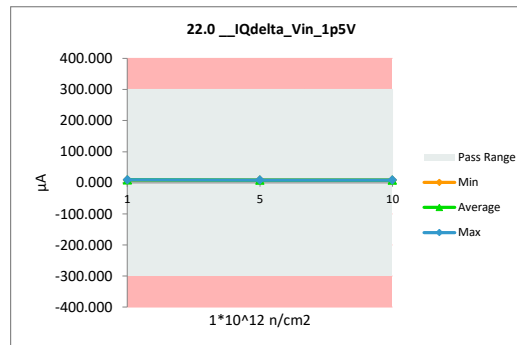
NDD Report
TPS7H2201-SP

22.0 IQdelta_Vin_1p5V	
Test Site	
Tester	
Test Number	
Unit	µA
Max Limit	300
Min Limit	-300

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	8.702	8.577	0.124
1	274	9.366	9.350	0.015
1	275	8.695	9.211	-0.516
5	276	8.643	8.622	0.021
5	277	9.425	8.109	1.315
5	290	6.545	8.564	-2.019
10	291	6.951	8.793	-1.842
10	292	7.206	8.130	-0.924
10	293	7.241	8.430	-1.189
Max		9.425	9.350	1.315
Average		8.086	8.643	-0.557
Min		6.545	8.109	-2.019
Std Dev		1.098	0.426	1.058

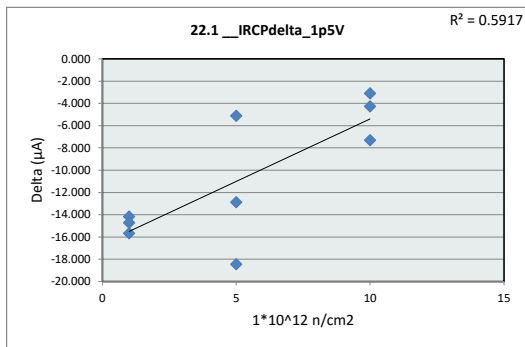


22.0 IQdelta_Vin_1p5V		1	5	10
Test Site				
Tester				
Test Number				
Max Limit	300	µA		
Min Limit	-300	µA		
LL	-300.000	-300.000	-300.000	-300.000
Min	8.577	8.110	8.130	
Average	9.046	8.432	8.451	
Max	9.350	8.622	8.793	
UL	300.000	300.000	300.000	

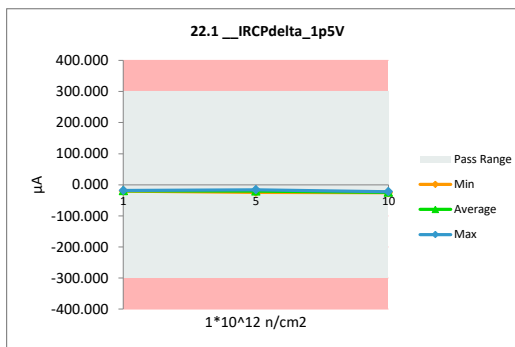


NDD Report
TPS7H2201-SP

22.1_IRCPdelta_1p5V				
Test Site				
Tester				
Test Number				
Unit		µA	µA	
Max Limit		300	300	
Min Limit		-300	-300	
1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	-34.258	-20.070	-14.188
1	274	-34.074	-19.335	-14.739
1	275	-34.105	-18.417	-15.688
5	276	-34.166	-21.285	-12.882
5	277	-34.217	-15.756	-18.461
5	290	-29.113	-23.981	-5.132
10	291	-28.949	-25.844	-3.106
10	292	-28.324	-24.051	-4.274
10	293	-29.443	-22.134	-7.309
Max		-28.324	-15.756	-3.106
Average		-31.850	-21.208	-10.642
Min		-34.258	-25.844	-18.461
Std Dev		2.760	3.171	5.699



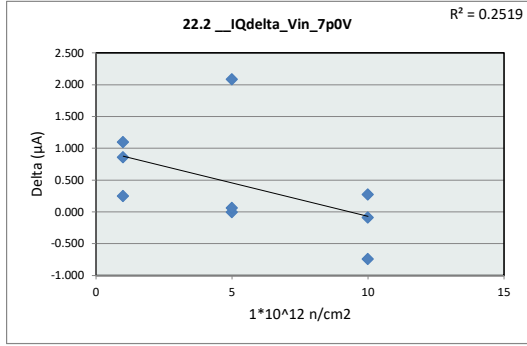
22.1_IRCPdelta_1p5V			
Test Site			
Tester			
Test Number			
Max Limit	300	µA	
Min Limit	-300	µA	
1*10 ¹² n/cm2	1	5	10
LL	-300.000	-300.000	-300.000
Min	-20.071	-23.981	-25.844
Average	-19.274	-20.341	-24.009
Max	-18.417	-15.756	-22.134
UL	300.000	300.000	300.000



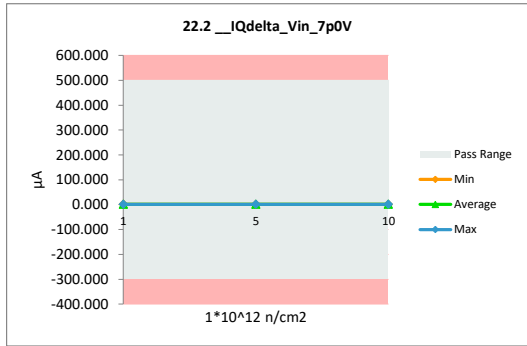
NDD Report
TPS7H2201-SP

22.2_IQdelta_Vin_7p0V	
Test Site	
Tester	
Test Number	
Unit	µA
Max Limit	500
Min Limit	-300

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	1.954	1.096	0.858
1	274	2.310	1.215	1.096
1	275	1.607	1.359	0.249
5	276	1.266	1.273	-0.007
5	277	2.799	0.716	2.083
5	290	1.301	1.240	0.061
10	291	0.904	1.646	-0.742
10	292	0.919	0.647	0.272
10	293	0.749	0.839	-0.090
Max		2.799	1.646	2.083
Average		1.534	1.114	0.420
Min		0.749	0.647	-0.742
Std Dev		0.698	0.325	0.821



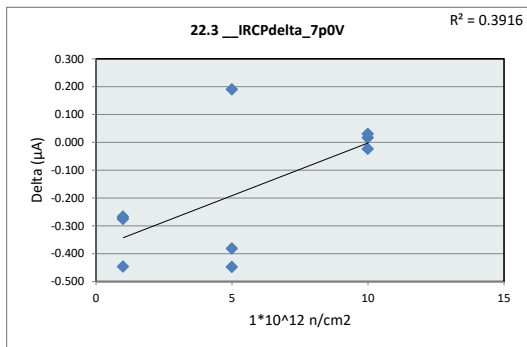
22.2_IQdelta_Vin_7p0V			
Test Site			
Tester			
Test Number			
Max Limit	500	µA	
Min Limit	-300	µA	
1*10 ¹² n/cm2	1	5	10
LL	-300.000	-300.000	-300.000
Min	1.096	0.716	0.648
Average	1.223	1.076	1.044
Max	1.359	1.273	1.646
UL	500.000	500.000	500.000



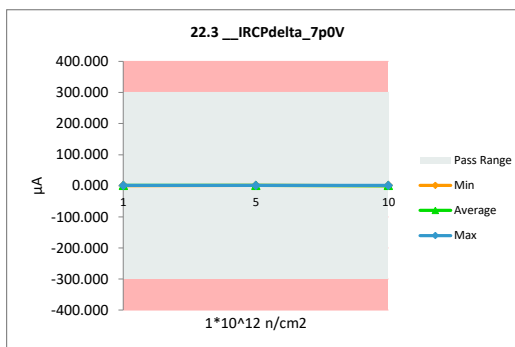
NDD Report
TPS7H2201-SP

22.3_IRCPdelta_7p0V	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	300
Min Limit	-300

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.458	0.905	-0.447
1	274	0.481	0.757	-0.276
1	275	0.473	0.741	-0.268
5	276	0.491	0.873	-0.382
5	277	0.474	0.922	-0.448
5	290	1.038	0.848	0.190
10	291	0.781	0.765	0.016
10	292	0.787	0.810	-0.023
10	293	0.791	0.761	0.030
Max		1.038	0.922	0.190
Average		0.641	0.820	-0.179
Min		0.458	0.741	-0.448
Std Dev		0.212	0.069	0.236



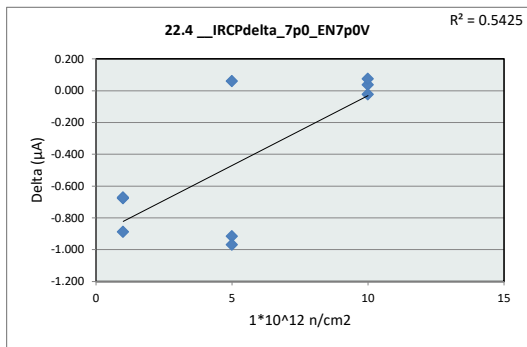
22.3_IRCPdelta_7p0V			
Test Site			
Tester			
Test Number			
Max Limit	300	μA	
Min Limit	-300	μA	
1*10 ¹² n/cm2	1	5	10
LL	-300.000	-300.000	-300.000
Min	0.741	0.848	0.761
Average	0.801	0.881	0.779
Max	0.905	0.922	0.810
UL	300.000	300.000	300.000



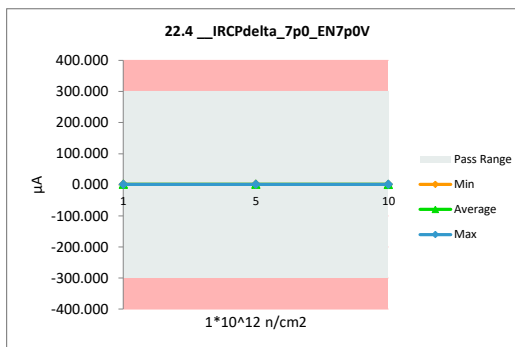
NDD Report
TPS7H2201-SP

22.4_IRCPdelta_7p0_EN7p0V	
Test Site	
Tester	
Test Number	
Unit	μA
Max Limit	300
Min Limit	-300

1*10 ¹² n/cm2	Serial #	pre NDD	post NDD	Delta
1	273	0.447	1.334	-0.888
1	274	0.502	1.178	-0.677
1	275	0.451	1.122	-0.671
5	276	0.460	1.376	-0.916
5	277	0.479	1.449	-0.970
5	290	1.312	1.253	0.059
10	291	1.164	1.128	0.036
10	292	1.134	1.060	0.074
10	293	0.987	1.010	-0.023
Max		1.312	1.449	0.074
Average		0.771	1.212	-0.442
Min		0.447	1.010	-0.970
Std Dev		0.369	0.150	0.465



22.4_IRCPdelta_7p0_EN7p0V			
Test Site			
Tester			
Test Number			
Max Limit	300	μA	
Min Limit	-300	μA	
1*10 ¹² n/cm2	1	5	10
LL	-300.000	-300.000	-300.000
Min	1.122	1.253	1.010
Average	1.212	1.359	1.066
Max	1.335	1.449	1.128
UL	300.000	300.000	300.000



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