

OPA4H014-SEP Neutron Displacement Damage (NDD) Characterization



ABSTRACT

The OPA4H014-SEP was subjected to a one-time characterization to determine the effects of Neutron Displacement Damage (NDD) to the device parameters. A sample size of nine units was exposed to radiation testing per MIL-STD-883 (Method 1017 for Neutron Irradiation). The samples were dosed to exposure levels of 1×10^{12} n/cm², 5×10^{12} n/cm², and 1×10^{13} n/cm², with three samples evaluated per exposure level. Electrical testing was performed at Texas Instruments before and after neutron irradiation using the production test program for the device. Degradation of offset voltage, input bias current, input offset current, and open-loop gain specifications on some samples was observed and is discussed herein.

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1 Overview

The OPA4H014-SEP is a low-power JFET input operation amplifier (op amp) that features good drift and low input bias current. With an input range that includes V^- and a rail-to-rail output, designers can take advantage of the low-noise characteristics of JFET amplifiers while interfacing to single-supply, precision analog-to-digital converters (ADCs) and digital-to-analog converters (DACs).

[Table 1-1](#) lists general device information and NDD testing conditions.

Table 1-1. Overview Information

TI Part Number	OPA4H014-SEP
VID Number	V62/21607
Device Function	Radiation Tolerant 11-MHz, Precision, Low-Noise, RRO, JFET Amp
Technology	BICOM-3XHV
Device Package	14-pin TSSOP (PW)
Unbiased Quantity Tested	9
Exposure Facility	VPT Rad, Chelmsford, MA
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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2 Test Procedures

The OPA4H014-SEP samples was electrically pre-tested using the production automated test equipment program. General test procedures were as per MIL-STD-883, Method 1017.

Table 2-1. Neutron Irradiation Conditions

Serial Numbers	Sample Qty	Neutron Fluence (n/cm ²)	Bias
1, 2, 3	3	1.0×10^{12}	Unbiased
4, 5, 6	3	5.0×10^{12}	Unbiased
7, 8, 9	3	1.0×10^{13}	Unbiased

Table 2-2. OPA4H014-SEP Specification Compliance Matrix

Parameter	Test Condition	OPA4H014-SEP Data Sheet (SBOSA94)				Test #
		MIN	TYP	MAX	Unit	
Input offset voltage			±30	±120	μV	500.0-503.0, 710.0-713.0, 730.0-733.0
	$V_S = \pm 9\text{ V}$			±220		1100.0-1103.0, 1900.0-1903.0, 2100.0-2103.0, 2310.0-2313.0, 2330.0-2333.0, 2510.0-2513.0, 2530.0-2533.0, 3110.0-3113.0
Power-supply rejection ratio			±0.1	±0.5	μV/V	3700.0-3703.0
Input bias current			±0.5	±10	pA	1300.0-1303.0, 1500.0-1503.0
Input offset current			±0.5	±10		1700.0-1703.0
Common-mode rejection ratio	$V_S = \pm 9\text{ V}$, $(V-) - 0.1\text{ V} < V_{CM} < (V+) - 3.5\text{ V}$	126	140		dB	3900.0-3903.0
Open-loop voltage gain	$(V-) + 0.35\text{ V} < V_{OUT} < (V+) - 0.35\text{ V}$, $R_L = 10\text{ k}\Omega$	120	126		dB	2540.0-2543.0
	$(V-) + 0.35\text{ V} < V_{OUT} < (V+) - 0.35\text{ V}$, $R_L = 2\text{ k}\Omega$	114	126			740.0-743.0, 2340.0-2343.0
Gain bandwidth			11		MHz	2900.0-2903.0
Slew rate			20		V/μs	2700.0-2703.0, 2710.0-2713.0
Voltage output swing from rail	$R_L = 10\text{ k}\Omega$, $A_{OL} \geq 108\text{ dB}$		$(V-) + 0.2$	$(V-) + 0.2$	V	2500.0-2503.0, 2520.0-2523.0
	$R_L = 2\text{ k}\Omega$, $A_{OL} \geq 108\text{ dB}$		$(V+) - 0.35$	$(V+) - 0.35$		700.0-703.0, 720.0-723.0, 2300.0-2303.0, 2320.0-2323.0
Short-circuit current	Source		36		mA	3300.0-3303.0
	Sink		-30			3500.0-3503.0
Quiescent current (per amplifier)	$I_O = 0\text{ A}$		1.8	2	mA	300.0-300.1, 900.0-900.1, 4100.0-4100.1, 4500.0, 4500.1

3 Facility

VPT Rad performed neutron displacement damage irradiations in a low-enriched, open-pool, water moderated, thermal neutron reactor at the University of Massachusetts Lowell. The reactor uses flat-plate type fuel and has a maximum thermal energy output of up to 1 MW. The Fast Neutron Irradiator (FNI) faces one side of the reactor core. The experimental facility replaces three beam ports that originally existed on the left side of the research reactor. The FNI 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 through a single 180° rotation of the sample canister at the midpoint of the irradiation period. The fluences are calculated based on 1-MeV equivalences.

The neutron fluence rate is determined using the previously-measured neutron radiation field for the FNI, performed in accordance with ASTM standards (ASTM F1190), and correlated to the measured reactor power level. The neutron dose is timed to meet the fluence specified for the irradiation. Neutron dosimetry meeting ASTM standards (ASTM E265) is used to track and make sure that irradiations meet the required minimum. The facility retains source design with the Defense Logistics Agency (DLA) Laboratory Suitability Program for ASTM Test Method 1017.

4 Results

There were no functional failures at any irradiation level. Parametric drift to levels outside the data sheet specifications was observed on all devices for the input bias current (and related input offset current) parameter, and on all but one device for the input offset voltage. Some devices experienced parametric drift for open-loop gain. All other tested parameters were observed to be within the test limits of the ATE program for the device, and as a result, within the data sheet specifications.

4.1 Input Bias Current Parametric Shift

Input bias current (I_B) for the OPA4H014-SEP is specified as ± 0.5 pA typical and ± 10 pA maximum at $T_A = 25^\circ\text{C}$. The input bias current was measured at $V_S = \pm 9$ V, with test limits of ± 6 pA for guardbanding purposes.

All of the devices exposed to neutron irradiation were found to have a measured input bias current outside of the specified data sheet limits, for both the inverting and noninverting input terminals and across all four device amplifier channels.

- Of the three samples tested to 1×10^{12} n/cm², a mean post-irradiation I_B value of 12.80 pA and maximum post-irradiation I_B value of 14.24 pA were recorded for the inverting inputs. A mean post-irradiation I_B value of 16.07 pA and maximum post-irradiation I_B value of 17.79 pA were recorded for the noninverting inputs.
- Of the three samples tested to 5×10^{12} n/cm², a mean post-irradiation I_B value of 73.24 pA and maximum post-irradiation I_B value of 74.87 pA were recorded for the inverting inputs. A mean post-irradiation I_B value of 90.04 pA and maximum post-irradiation I_B value of 91.92 pA were recorded for the noninverting inputs.
- Of the three samples tested to 1×10^{13} n/cm², a mean post-irradiation I_B value of 145.54 pA and maximum post-irradiation I_B value of 162.34 pA were recorded for the inverting inputs. A mean post-irradiation I_B value of 177.73 pA and maximum post-irradiation I_B value of 198.79 pA were recorded for the noninverting inputs.

Input offset current (I_{OS}) was found to remain within the data sheet specifications for the devices tested to 1×10^{12} n/cm², which suggests that the neutron displacement damage mechanism can affect both the inverting and noninverting inputs in a comparable manner. For samples dosed to 5×10^{12} n/cm² and 1×10^{13} n/cm², while offset current exceeded the data sheet limits, the offset current remained within approximately 10% of the mean measured input bias current.

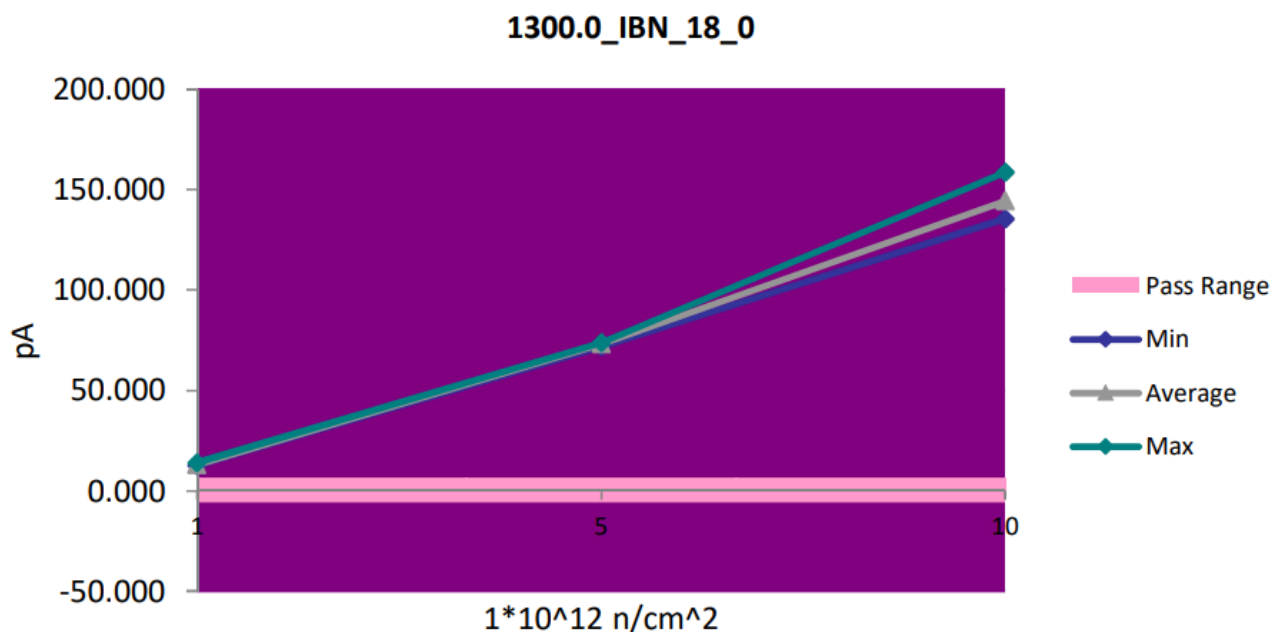


Figure 4-1. Sample Inverting Input Bias Current NDD Graph

4.2 Input Offset Voltage Parametric Shift

Input offset voltage (V_{OS}) for the OPA4H014-SEP is specified as $\pm 30 \mu\text{V}$ typical and $\pm 120 \mu\text{V}$ maximum at $T_A = 25^\circ\text{C}$. The input offset voltage was measured at multiple supply voltages, with test limits of $\pm 100 \mu\text{V}$ for guardbanding purposes.

All but one of the devices exposed to neutron irradiation were found to have a measured input offset voltage outside of the specified data sheet limits, across all four device amplifier channels, for at least one of the V_{OS} tests performed on the ATE. Values reported below are from one example test with $V_S = \pm 9 \text{ V}$ (test numbers 1100.0-1103.0). Full data for all ATE tests performed are included in the report appendix.

- Of the three samples tested to $1 \times 10^{12} \text{ n/cm}^2$, a mean post-irradiation V_{OS} magnitude of $68 \mu\text{V}$ and maximum post-irradiation V_{OS} magnitude of $152.94 \mu\text{V}$ were recorded. Only the sample with serial number 1 did not exhibit a parametric shift to a level in excess of the data sheet specification on any channel.
- Of the three samples tested to $5 \times 10^{12} \text{ n/cm}^2$, a mean post-irradiation V_{OS} magnitude of $110.67 \mu\text{V}$ and maximum post-irradiation V_{OS} magnitude of $284.55 \mu\text{V}$ were recorded.
- Of the three samples tested to $1 \times 10^{13} \text{ n/cm}^2$, a mean post-irradiation V_{OS} magnitude of $186.82 \mu\text{V}$ and maximum post-irradiation V_{OS} magnitude of $508.11 \mu\text{V}$ were recorded.

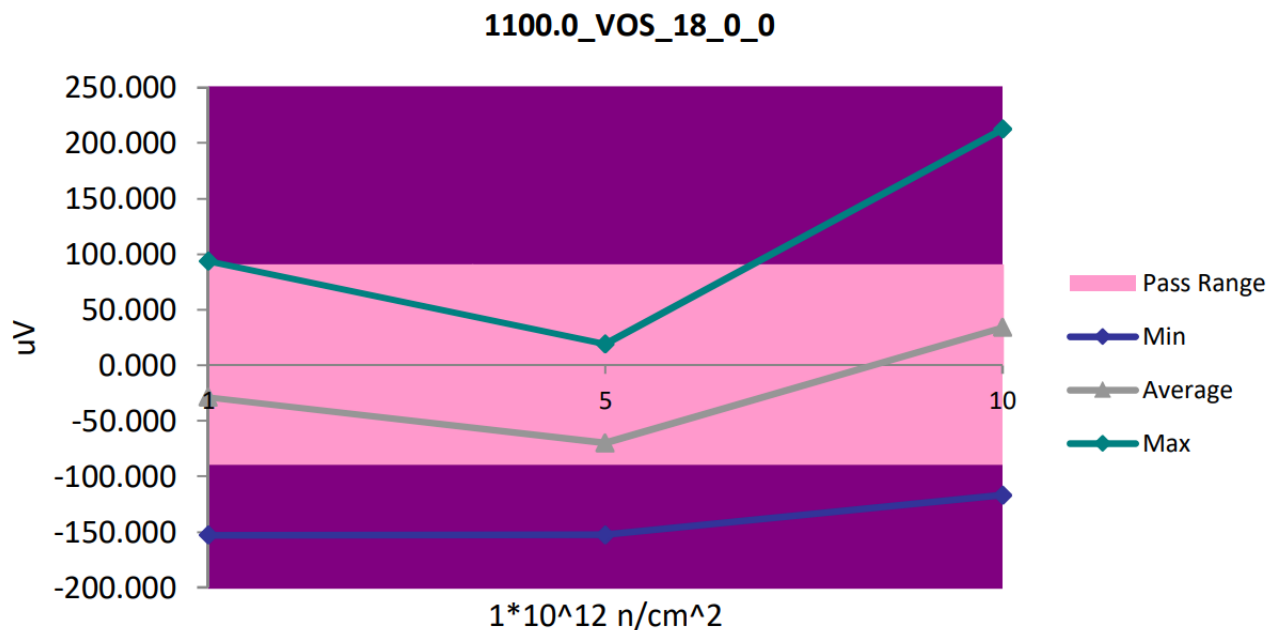


Figure 4-2. Sample Input Offset Voltage NDD Graph

4.3 Other Parametric Shifts

Power-supply rejection ratio (PSRR) for the OPA4H014-SEP is specified as $\pm 0.1 \mu\text{V/V}$ typical and $\pm 0.5 \mu\text{V/V}$ minimum across the recommended operating temperature ($T_A = -55^\circ\text{C}$ to $+125^\circ\text{C}$). Power-supply rejection ratio was measured at $V_S = \pm 9 \text{ V}$, with test limits of $\pm 0.37 \mu\text{V/V}$ for guardbanding purposes. One device sample, tested to $1 \times 10^{13} \text{ n/cm}^2$, was found to have a post-irradiation PSRR value of $-0.373 \mu\text{V/V}$, in excess of the test limit but nonetheless within the actual data sheet specification.

Open-loop gain (A_{OL}) for the OPA4H014-SEP is specified as 126 dB ($\pm 0.5 \mu\text{V/V}$) typical and 114 dB ($\pm 2 \mu\text{V/V}$) maximum at $T_A = 25^\circ\text{C}$ and with $R_L = 2 \text{ k}\Omega$. Open-loop gain was measured at $V_S = \pm 2.25 \text{ V}$, with test limits of $\pm 1.8 \mu\text{V/V}$ for guardbanding purposes. One device sample, tested to $5 \times 10^{12} \text{ n/cm}^2$, was found to have a post-irradiation A_{OL} value of $2.411 \mu\text{V/V}$ for one channel, in excess of the data sheet specification. The A_{OL} of the other three channels remained within the data sheet specifications and test limits. Another device sample, tested to $1 \times 10^{13} \text{ n/cm}^2$, was found to have a post-irradiation A_{OL} value of $2.483 \mu\text{V/V}$ for one channel and $2.357 \mu\text{V/V}$ for another, in excess of the data sheet specification. The A_{OL} of the other two channels of the sample remained within the data sheet specifications, with values of $1.292 \mu\text{V/V}$ and $1.951 \mu\text{V/V}$. A_{OL} remained within the data sheet specifications and test limits for all devices when measured at $V_S = \pm 9 \text{ V}$. Full data for all ATE tests performed are included in the report appendix.

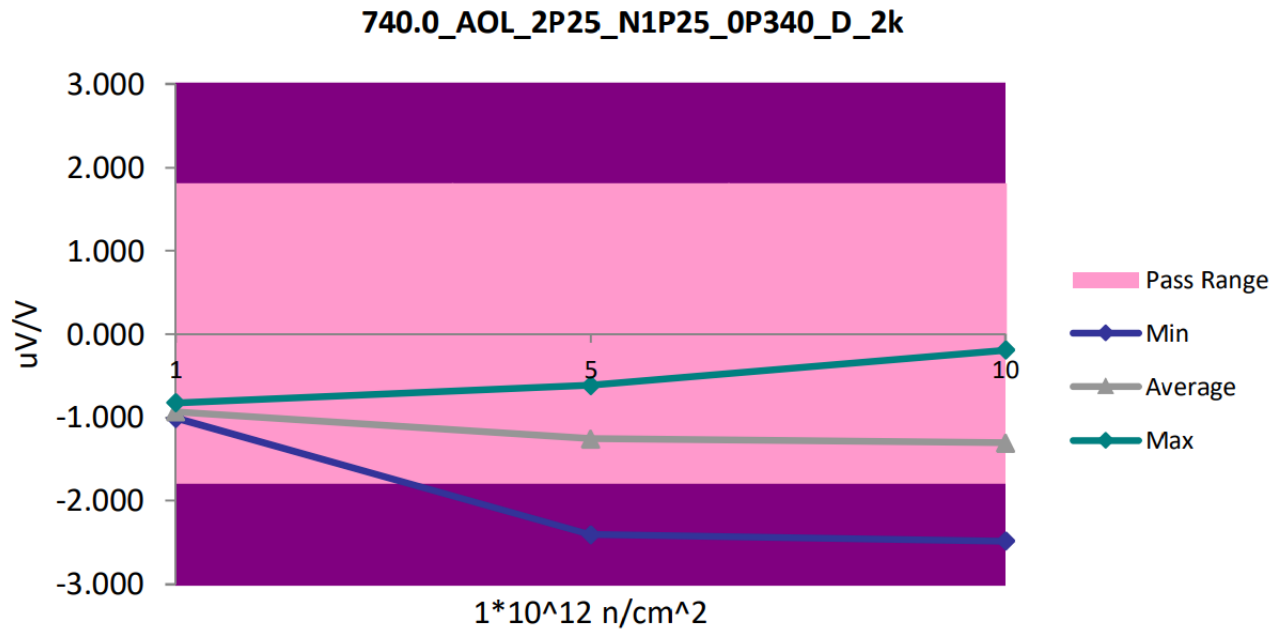


Figure 4-3. Sample Open-Loop Gain NDD Graph

5 Summary of Results

While there were no functional failures at any irradiation level, degradation of parameters was readily apparent for the device when exposed to neutron irradiation. This degradation significantly worsened as the dosage increased beyond 1×10^{12} n/cm². The specifications most significantly affected were the input offset voltage and input bias current (and related input offset current). Some devices experienced parametric drift to levels in excess of the data sheet specifications for open-loop gain (at and above 5×10^{12} n/cm²). The data suggest that circuit designers seeking to use the OPA4H014-SEP must consider the possible effects of parametric drift of the I_B , I_{OS} , V_{OS} , and A_{OL} specifications when assessing circuits for fault-planning purposes.

A Test Results

This appendix contains the detailed test results.

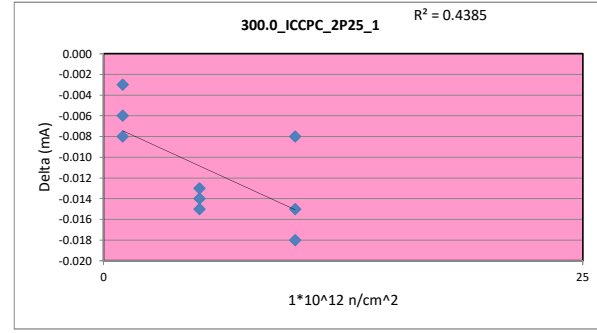
Delta Threshold 10.00%

NDD Report
OPA4H014-SEP

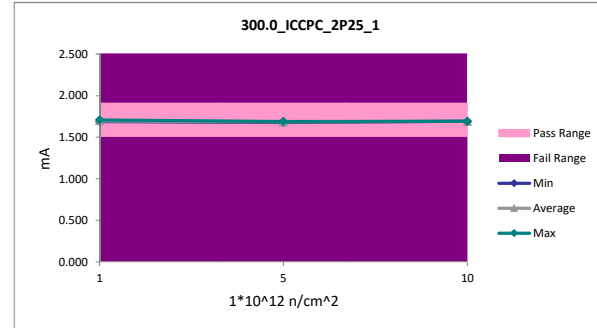
NDD Report OPA4H014-SEP

300.0_ICCPC_2P25_1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	1.91	1.91
Min Limit	1.5	1.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.690	1.698	-0.008	-0.47%	1.95%
1	2	1.690	1.693	-0.003	-0.18%	0.73%
1	3	1.709	1.715	-0.006	-0.35%	1.46%
5	4	1.689	1.704	-0.015	-0.89%	3.66%
5	5	1.685	1.698	-0.013	-0.77%	3.17%
5	6	1.678	1.692	-0.014	-0.83%	3.41%
10	7	1.690	1.708	-0.018	-1.07%	4.39%
10	8	1.689	1.704	-0.015	-0.89%	3.66%
10	9	1.690	1.698	-0.008	-0.47%	1.95%
Max		1.709	1.715	-0.003	-0.18%	4.39%
Average		1.690	1.701	-0.011	-0.66%	2.71%
Min		1.678	1.692	-0.018	-1.07%	0.73%
Std Dev		0.008	0.007	0.005	0.30%	1.22%



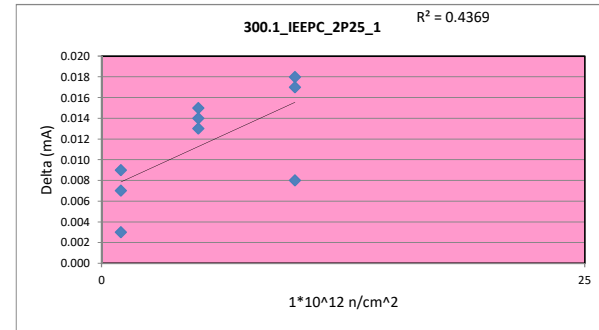
300.0_ICCPC_2P25_1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.91	mA	
Min Limit	1.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	1.500	1.500	1.500
Min	1.690	1.678	1.689
Average	1.696	1.684	1.690
Max	1.709	1.689	1.690
UL	1.910	1.910	1.910



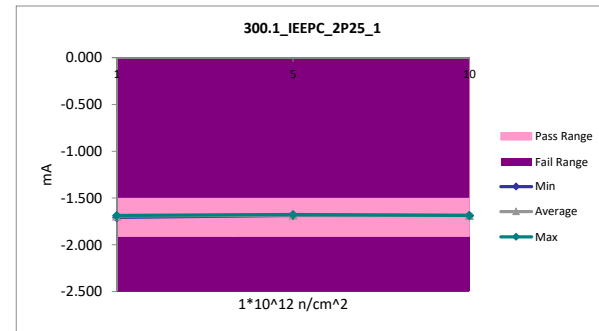
NDD Report OPA4H014-SEP

300.1_IEEPC_2P25_1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-1.5	-1.5
Min Limit	-1.91	-1.91

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-1.689	-1.698	0.009	-0.53%	2.20%
1	2	-1.690	-1.693	0.003	-0.18%	0.73%
1	3	-1.708	-1.715	0.007	-0.41%	1.71%
5	4	-1.689	-1.704	0.015	-0.89%	3.66%
5	5	-1.685	-1.698	0.013	-0.77%	3.17%
5	6	-1.678	-1.692	0.014	-0.83%	3.41%
10	7	-1.690	-1.708	0.018	-1.07%	4.39%
10	8	-1.688	-1.705	0.017	-1.01%	4.15%
10	9	-1.690	-1.698	0.008	-0.47%	1.95%
Max		-1.678	-1.692	0.018	-0.18%	4.39%
Average		-1.690	-1.701	0.012	-0.68%	2.82%
Min		-1.708	-1.715	0.003	-1.07%	0.73%
Std Dev		0.008	0.007	0.005	0.30%	1.23%



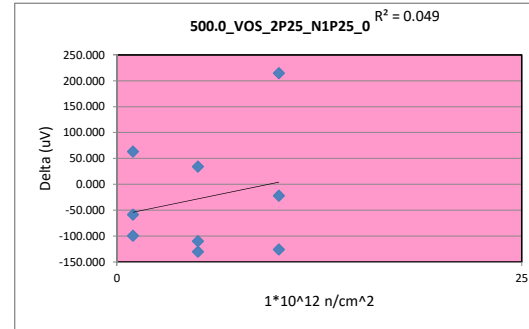
300.1_IEEPC_2P25_1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-1.5	mA	
Min Limit	-1.91	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-1.910	-1.910	-1.910
Min	-1.708	-1.689	-1.690
Average	-1.696	-1.684	-1.689
Max	-1.689	-1.678	-1.688
UL	-1.500	-1.500	-1.500



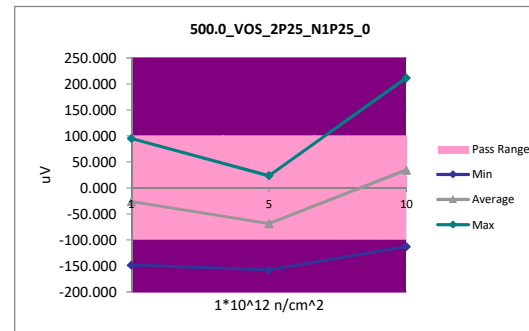
NDD Report OPA4H014-SEP

500.0_VOS_2P25_N1P25_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	100	100
Min Limit	-100	-100

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	95.420	31.980	63.440	66.49%	31.72%
1	2	-25.990	32.290	-58.280	224.24%	29.14%
1	3	-148.540	-49.050	-99.490	66.98%	49.74%
5	4	-71.900	37.630	-109.530	152.34%	54.77%
5	5	-157.700	-27.480	-130.220	82.57%	65.11%
5	6	23.610	-10.330	33.940	143.75%	16.97%
10	7	-113.050	13.020	-126.070	111.52%	63.04%
10	8	4.840	26.860	-22.020	-454.96%	11.01%
10	9	211.850	-2.780	214.630	101.31%	107.32%
	Max	211.850	37.630	214.630	224.24%	107.32%
	Average	-20.162	5.793	-25.956	54.92%	47.65%
	Min	-157.700	-49.050	-130.220	-454.96%	11.01%
	Std Dev	120.658	30.302	113.912	197.62%	29.66%



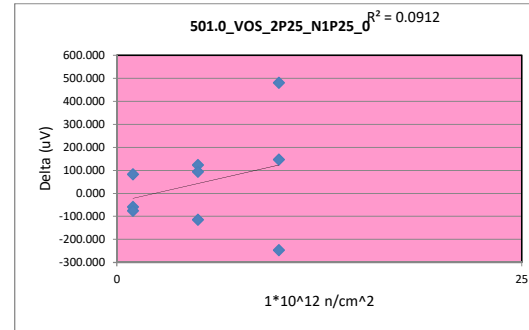
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Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	100	uV	
Min Limit	-100	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-100.000	-100.000	-100.000
Min	-148.540	-157.700	-113.050
Average	-26.370	-68.663	34.547
Max	95.420	23.610	211.850
UL	100.000	100.000	100.000



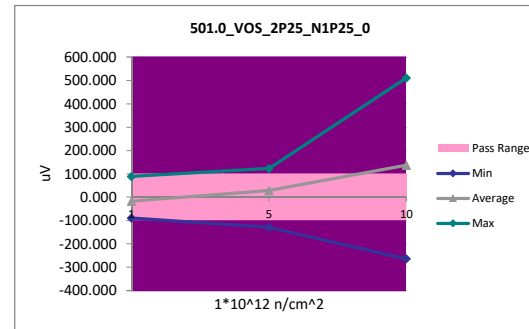
NDD Report OPA4H014-SEP

501.0_VOS_2P25_N1P25_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	100	100
Min Limit	-100	-100

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-50.880	8.030	-58.910	115.78%	29.46%
1	2	88.350	4.970	83.380	94.37%	41.69%
1	3	-89.250	-14.130	-75.120	84.17%	37.56%
5	4	122.900	-0.450	123.350	100.37%	61.68%
5	5	89.570	-4.370	93.940	104.88%	46.97%
5	6	-129.940	-15.310	-114.630	88.22%	57.32%
10	7	-264.500	-18.290	-246.210	93.09%	123.10%
10	8	510.400	30.140	480.260	94.09%	240.13%
10	9	164.130	17.930	146.200	89.08%	73.10%
Max		510.400	30.140	480.260	115.78%	240.13%
Average		48.976	0.947	48.029	96.00%	79.00%
Min		-264.500	-18.290	-246.210	84.17%	29.46%
Std Dev		221.977	16.198	207.704	9.70%	66.43%



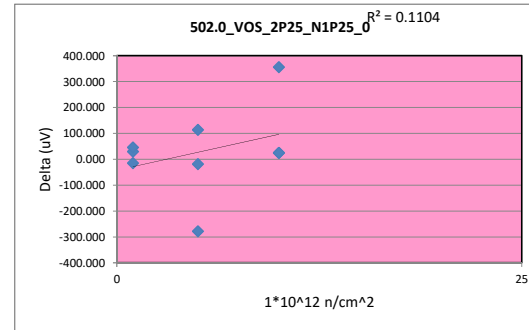
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Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	100	uV	
Min Limit	-100	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-100.000	-100.000	-100.000
Min	-89.250	-129.940	-264.500
Average	-17.260	27.510	136.677
Max	88.350	122.900	510.400
UL	100.000	100.000	100.000



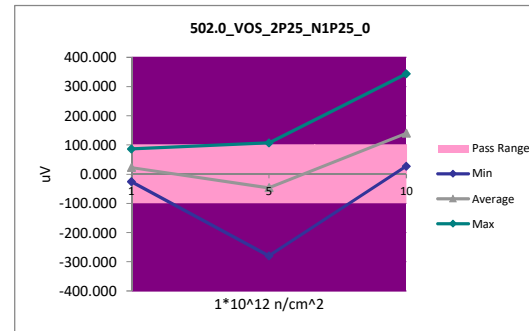
NDD Report OPA4H014-SEP

502.0_VOS_2P25_N1P25_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	100	100
Min Limit	-100	-100

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-26.230	-11.640	-14.590	55.62%	7.29%
1	2	7.040	-22.070	29.110	413.49%	14.55%
1	3	86.120	41.020	45.100	52.37%	22.55%
5	4	32.570	50.860	-18.290	-56.16%	9.15%
5	5	-279.560	-1.270	-278.290	99.55%	139.14%
5	6	106.550	-6.530	113.080	106.13%	56.54%
10	7	27.290	2.860	24.430	89.52%	12.22%
10	8	46.780	21.890	24.890	53.21%	12.44%
10	9	343.750	-11.670	355.420	103.39%	177.71%
Max		343.750	50.860	355.420	413.49%	177.71%
Average		38.257	7.050	31.207	101.90%	50.18%
Min		-279.560	-22.070	-278.290	-56.16%	7.29%
Std Dev		160.720	25.280	162.956	127.09%	63.87%



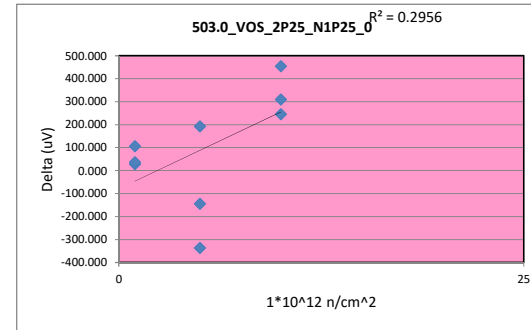
502.0_VOS_2P25_N1P25_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	100	uV	
Min Limit	-100	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-100.000	-100.000	-100.000
Min	-26.230	-279.560	27.290
Average	22.310	-46.813	139.273
Max	86.120	106.550	343.750
UL	100.000	100.000	100.000



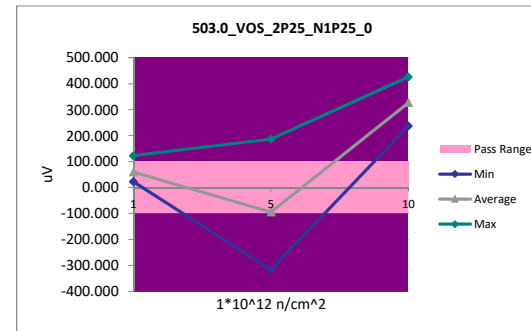
NDD Report OPA4H014-SEP

503.0_VOS_2P25_N1P25_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	100	100
Min Limit	-100	-100

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	22.460	-5.590	28.050	124.89%	14.02%
1	2	122.420	16.110	106.310	86.84%	53.15%
1	3	34.520	-1.990	36.510	105.76%	18.26%
5	4	-316.550	20.070	-336.620	106.34%	168.31%
5	5	186.180	-6.540	192.720	103.51%	96.36%
5	6	-152.880	-8.370	-144.510	94.53%	72.26%
10	7	316.900	6.690	310.210	97.89%	155.10%
10	8	426.020	-28.000	454.020	106.57%	227.01%
10	9	236.650	-9.110	245.760	103.85%	122.88%
	Max	426.020	20.070	454.020	124.89%	227.01%
	Average	97.302	-1.859	99.161	103.35%	103.04%
	Min	-316.550	-28.000	-336.620	86.84%	14.02%
	Std Dev	231.202	14.539	239.537	10.43%	71.87%



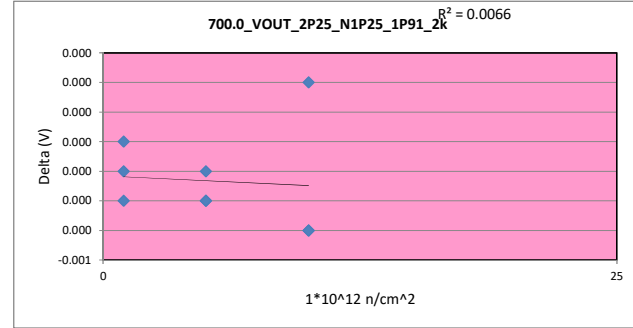
503.0_VOS_2P25_N1P25_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	100	uV	
Min Limit	-100	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-100.000	-100.000	-100.000
Min	22.460	-316.550	236.650
Average	59.800	-94.417	326.523
Max	122.420	186.180	426.020
UL	100.000	100.000	100.000



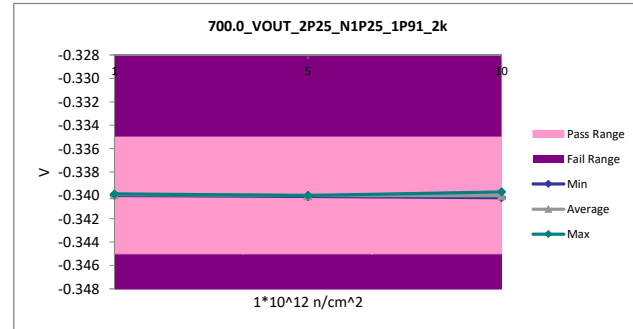
NDD Report
OPA4H014-SEP

	700.0_VOUT_2P25_N1P25_1P91	700.0_VOUT_2P25_N1P25_1P91
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	0.09%	3.00%
1	2	-0.340	-0.340	0.000	0.03%	1.00%
1	3	-0.340	-0.340	0.000	0.06%	2.00%
5	4	-0.340	-0.340	0.000	0.09%	3.00%
5	5	-0.340	-0.340	0.000	0.06%	2.00%
5	6	-0.340	-0.340	0.000	0.09%	3.00%
10	7	-0.340	-0.340	0.000	-0.03%	1.00%
10	8	-0.340	-0.340	0.000	0.12%	4.00%
10	9	-0.340	-0.340	0.000	0.12%	4.00%
Max		-0.340	-0.340	0.000	0.12%	4.00%
Average		-0.340	-0.340	0.000	0.07%	2.56%
Min		-0.340	-0.340	0.000	-0.03%	1.00%
Std Dev		0.000	0.000	0.000	0.05%	1.13%



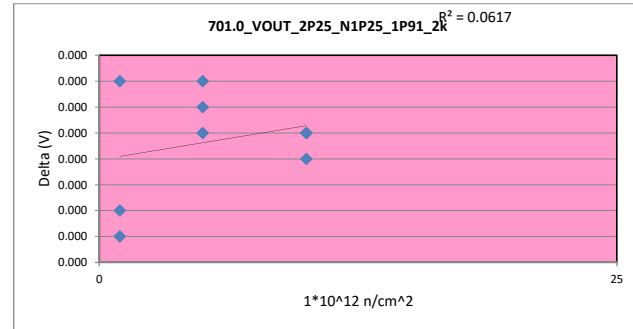
	700.0_VOUT_2P25_N1P25_1P91	700.0_VOUT_2P25_N1P25_1P91	700.0_VOUT_2P25_N1P25_1P91
Test Site	TI Dallas	TI Dallas	TI Dallas
Tester	ETS364	ETS364	ETS364
Test Number	EB6298	EB6298	EB6298
Max Limit	-0.335	V	V
Min Limit	-0.345	V	V
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



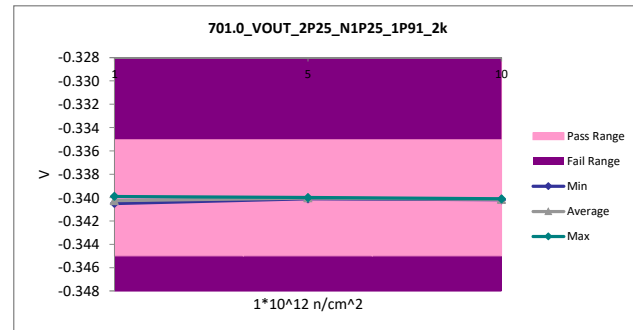
NDD Report OPA4H014-SEP

701.0_VOUT_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	-0.09%	3.00%
1	2	-0.340	-0.340	0.000	0.09%	3.00%
1	3	-0.340	-0.340	0.000	0.06%	2.00%
5	4	-0.340	-0.340	0.000	-0.06%	2.00%
5	5	-0.340	-0.340	0.000	-0.09%	3.00%
5	6	-0.340	-0.340	0.000	-0.03%	1.00%
10	7	-0.340	-0.340	0.000	-0.03%	1.00%
10	8	-0.340	-0.340	0.000	0.00%	0.00%
10	9	-0.340	-0.340	0.000	-0.03%	1.00%
Max		-0.340	-0.340	0.000	0.09%	3.00%
Average		-0.340	-0.340	0.000	-0.02%	1.78%
Min		-0.340	-0.340	0.000	-0.09%	0.00%
Std Dev		0.000	0.000	0.000	0.06%	1.09%



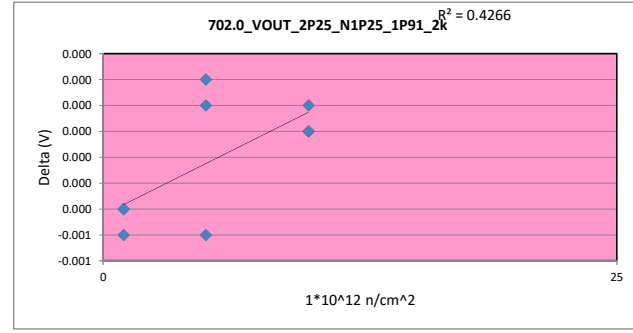
701.0_VOUT_2P25_N1P25_1P			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



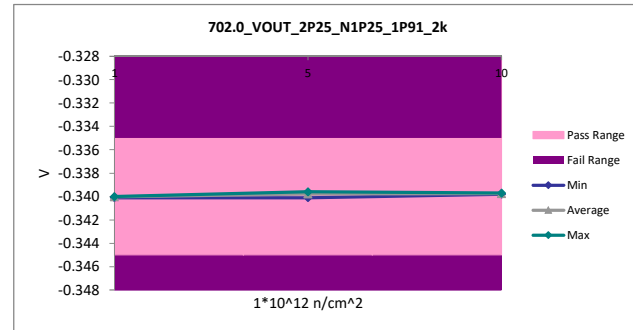
NDD Report
OPA4H014-SEP

702.0_VOUT_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	0.15%	5.00%
1	2	-0.340	-0.340	0.000	0.12%	4.00%
1	3	-0.340	-0.340	0.000	0.12%	4.00%
5	4	-0.340	-0.340	0.000	0.15%	5.00%
5	5	-0.340	-0.340	0.000	-0.03%	1.00%
5	6	-0.340	-0.340	0.000	0.00%	0.00%
10	7	-0.340	-0.340	0.000	0.03%	1.00%
10	8	-0.340	-0.340	0.000	0.00%	0.00%
10	9	-0.340	-0.340	0.000	0.03%	1.00%
Max		-0.340	-0.340	0.000	0.15%	5.00%
Average		-0.340	-0.340	0.000	0.06%	2.33%
Min		-0.340	-0.340	0.000	-0.03%	0.00%
Std Dev		0.000	0.000	0.000	0.07%	2.12%



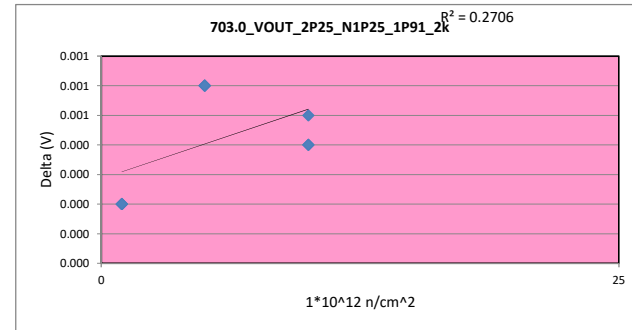
702.0_VOUT_2P25_N1P25_1P			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



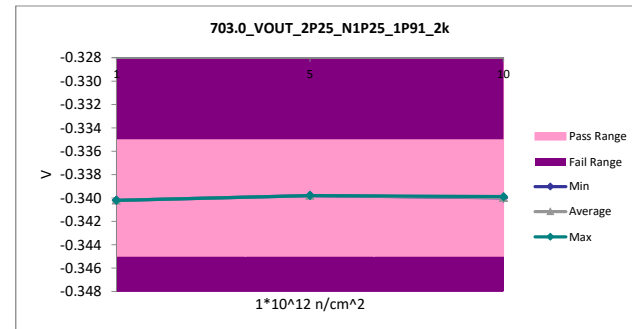
NDD Report OPA4H014-SEP

703.0_VOUT_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	-0.06%	2.00%
1	2	-0.340	-0.340	0.000	-0.06%	2.00%
1	3	-0.340	-0.340	0.000	-0.06%	2.00%
5	4	-0.340	-0.340	0.001	-0.18%	6.00%
5	5	-0.340	-0.340	0.001	-0.18%	6.00%
5	6	-0.340	-0.340	0.001	-0.18%	6.00%
10	7	-0.340	-0.340	0.000	-0.12%	4.00%
10	8	-0.340	-0.340	0.001	-0.15%	5.00%
10	9	-0.340	-0.340	0.000	-0.12%	4.00%
Max		-0.340	-0.340	0.001	-0.06%	6.00%
Average		-0.340	-0.340	0.000	-0.12%	4.11%
Min		-0.340	-0.340	0.000	-0.18%	2.00%
Std Dev		0.000	0.000	0.000	0.05%	1.76%



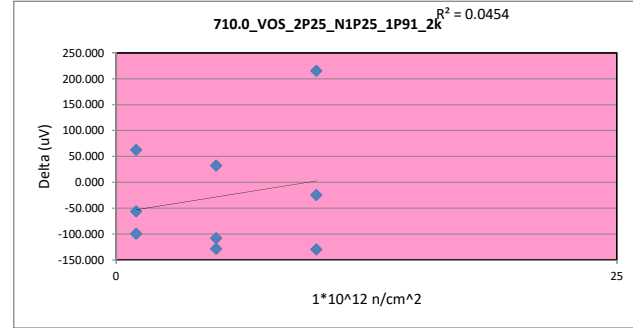
703.0_VOUT_2P25_N1P25_1P			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



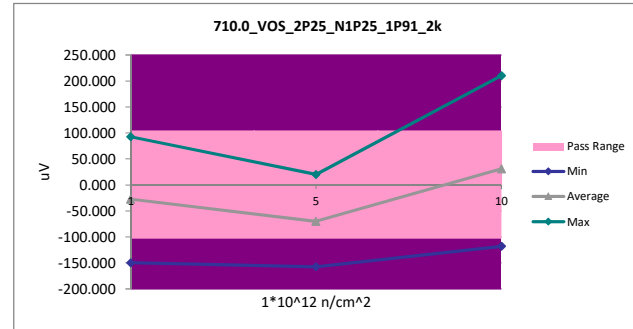
NDD Report
OPA4H014-SEP

710.0_VOS_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	92.920	30.550	62.370	67.12%	29.99%
1	2	-25.520	30.490	-56.010	219.47%	26.93%
1	3	-150.090	-50.660	-99.430	66.25%	47.80%
5	4	-72.280	35.940	-108.220	149.72%	52.03%
5	5	-157.650	-29.150	-128.500	81.51%	61.78%
5	6	20.190	-11.940	32.130	159.14%	15.45%
10	7	-117.980	11.340	-129.320	109.61%	62.17%
10	8	0.710	25.130	-24.420	-3439.44%	11.74%
10	9	210.400	-4.560	214.960	102.17%	103.35%
	Max	210.400	35.940	214.960	219.47%	103.35%
	Average	-22.144	4.127	-26.271	-276.05%	45.69%
	Min	-157.650	-50.660	-129.320	-3439.44%	11.74%
	Std Dev	120.454	30.292	113.735	1187.32%	28.65%



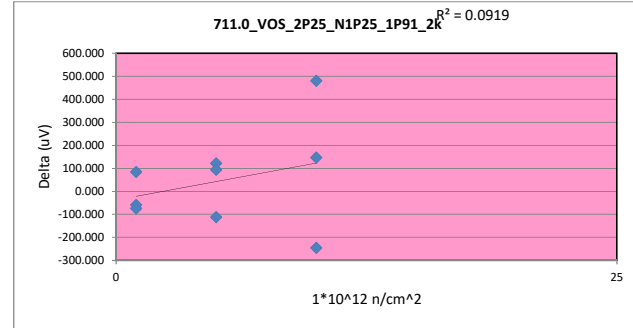
710.0_VOS_2P25_N1P25_1P9			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	-150.090	-157.650	-117.980
Average	-27.563	-69.913	31.043
Max	92.920	20.190	210.400
UL	104.000	104.000	104.000



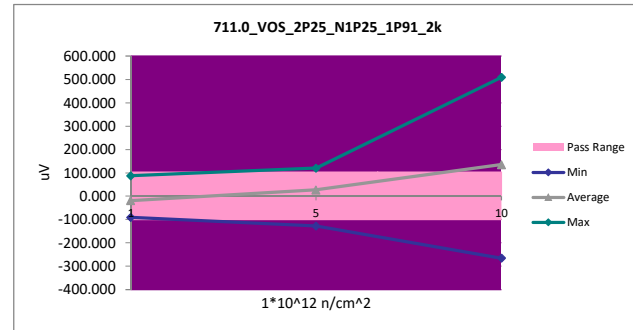
NDD Report OPA4H014-SEP

711.0_VOS_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-52.930	6.630	-59.560	112.53%	28.63%
1	2	87.240	3.260	83.980	96.26%	40.37%
1	3	-90.600	-15.760	-74.840	82.60%	35.98%
5	4	119.630	-2.380	122.010	101.99%	58.66%
5	5	87.600	-6.040	93.640	106.89%	45.02%
5	6	-128.830	-16.770	-112.060	86.98%	53.88%
10	7	-265.690	-20.250	-245.440	92.38%	118.00%
10	8	508.600	28.510	480.090	94.39%	230.81%
10	9	162.620	15.980	146.640	90.17%	70.50%
Max		508.600	28.510	480.090	112.53%	230.81%
Average		47.516	-0.758	48.273	96.02%	75.76%
Min		-265.690	-20.250	-245.440	82.60%	28.63%
Std Dev		221.527	16.200	207.265	9.61%	63.86%



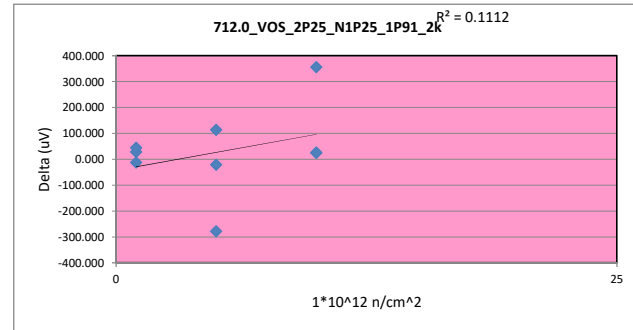
711.0_VOS_2P25_N1P25_1P9			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	-90.600	-128.830	-265.690
Average	-18.763	26.133	135.177
Max	87.240	119.630	508.600
UL	104.000	104.000	104.000



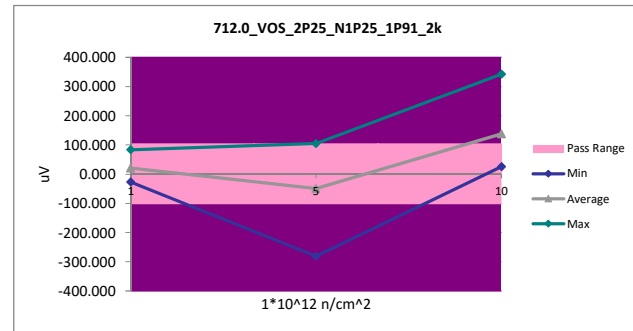
NDD Report OPA4H014-SEP

712.0_VOS_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-26.380	-13.320	-13.060	49.51%	6.28%
1	2	4.820	-23.850	28.670	594.81%	13.78%
1	3	83.500	39.470	44.030	52.73%	21.17%
5	4	27.690	49.170	-21.480	-77.57%	10.33%
5	5	-281.060	-2.710	-278.350	99.04%	133.82%
5	6	105.070	-8.040	113.110	107.65%	54.38%
10	7	26.100	0.960	25.140	96.32%	12.09%
10	8	45.450	20.170	25.280	55.62%	12.15%
10	9	342.100	-13.750	355.850	104.02%	171.08%
Max		342.100	49.170	355.850	594.81%	171.08%
Average		36.366	5.344	31.021	120.24%	48.34%
Min		-281.060	-23.850	-278.350	-77.57%	6.28%
Std Dev		160.612	25.332	163.135	186.93%	61.42%



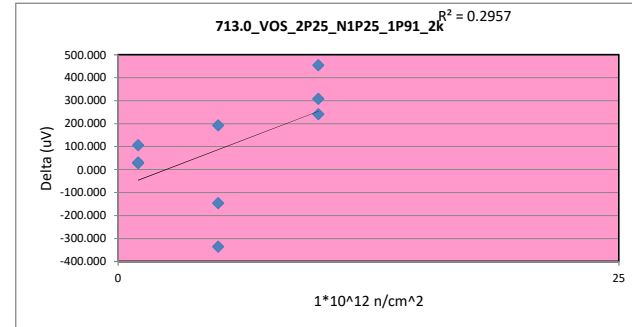
712.0_VOS_2P25_N1P25_1P9			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	-26.380	-281.060	26.100
Average	20.647	-49.433	137.883
Max	83.500	105.070	342.100
UL	104.000	104.000	104.000



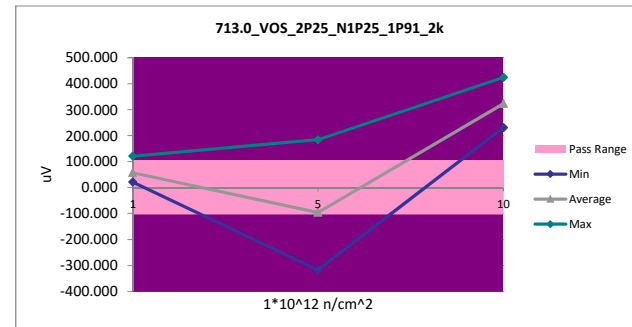
NDD Report OPA4H014-SEP

713.0_VOS_2P25_N1P25_1P91		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	21.410	-7.090	28.500	133.12%	13.70%
1	2	120.830	14.420	106.410	88.07%	51.16%
1	3	28.210	-3.460	31.670	112.27%	15.23%
5	4	-317.100	18.310	-335.410	105.77%	161.25%
5	5	184.470	-8.040	192.510	104.36%	92.55%
5	6	-155.830	-9.710	-146.120	93.77%	70.25%
10	7	313.560	4.980	308.580	98.41%	148.36%
10	8	424.500	-29.720	454.220	107.00%	218.37%
10	9	231.180	-10.770	241.950	104.66%	116.32%
	Max	424.500	18.310	454.220	133.12%	218.37%
	Average	94.581	-3.453	98.034	105.27%	98.58%
	Min	-317.100	-29.720	-335.410	88.07%	13.70%
	Std Dev	230.806	14.496	239.173	12.77%	69.20%



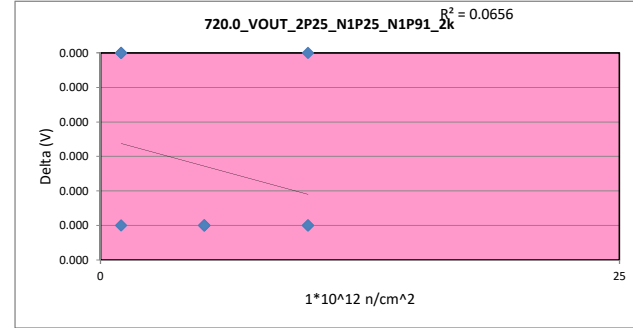
713.0_VOS_2P25_N1P25_1P9			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	21.410	-317.100	231.180
Average	56.817	-96.153	323.080
Max	120.830	184.470	424.500
UL	104.000	104.000	104.000



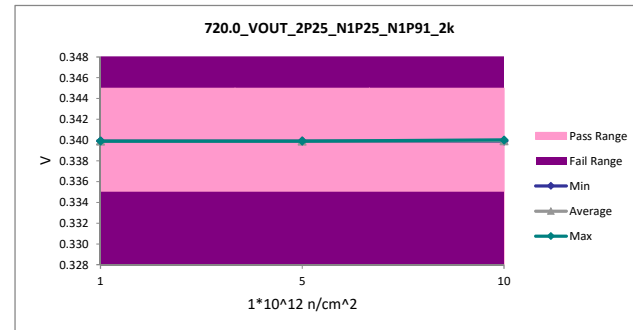
NDD Report
OPA4H014-SEP

720.0_VOUT_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	-0.03%	1.00%
1	2	0.340	0.340	0.000	0.00%	0.00%
1	3	0.340	0.340	0.000	0.00%	0.00%
5	4	0.340	0.340	0.000	-0.03%	1.00%
5	5	0.340	0.340	0.000	-0.03%	1.00%
5	6	0.340	0.340	0.000	-0.03%	1.00%
10	7	0.340	0.340	0.000	-0.03%	1.00%
10	8	0.340	0.340	0.000	-0.03%	1.00%
10	9	0.340	0.340	0.000	0.00%	0.00%
Max		0.340	0.340	0.000	0.00%	1.00%
Average		0.340	0.340	0.000	-0.02%	0.67%
Min		0.340	0.340	0.000	-0.03%	0.00%
Std Dev		0.000	0.000	0.000	0.01%	0.50%



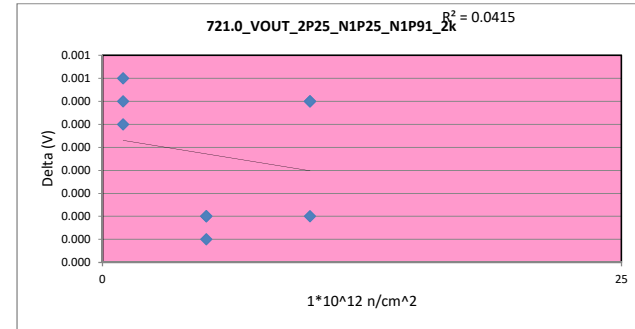
720.0_VOUT_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345 V		
Min Limit	0.335 V		
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



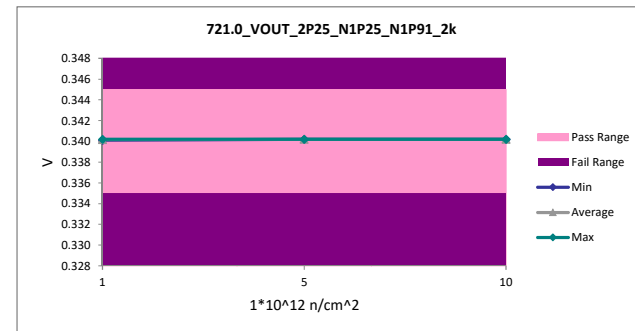
NDD Report OPA4H014-SEP

721.0_VOUT_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	0.12%	4.00%
1	2	0.340	0.340	0.000	0.15%	5.00%
1	3	0.340	0.340	0.000	0.09%	3.00%
5	4	0.340	0.340	0.000	-0.03%	1.00%
5	5	0.340	0.340	0.000	-0.06%	2.00%
5	6	0.340	0.340	0.000	-0.03%	1.00%
10	7	0.340	0.340	0.000	-0.03%	1.00%
10	8	0.340	0.340	0.000	0.12%	4.00%
10	9	0.340	0.340	0.000	0.12%	4.00%
Max		0.340	0.340	0.000	0.15%	5.00%
Average		0.340	0.340	0.000	0.05%	2.78%
Min		0.340	0.340	0.000	-0.06%	1.00%
Std Dev		0.000	0.000	0.000	0.08%	1.56%



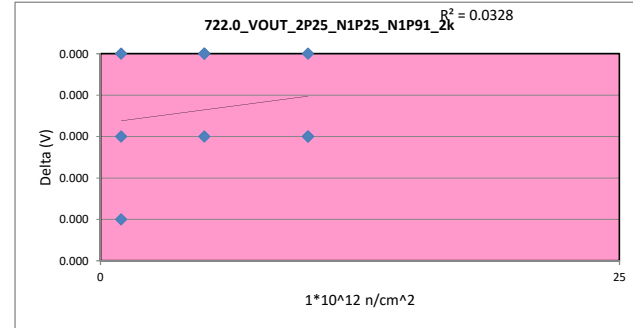
721.0_VOUT_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345 V		
Min Limit	0.335 V		
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



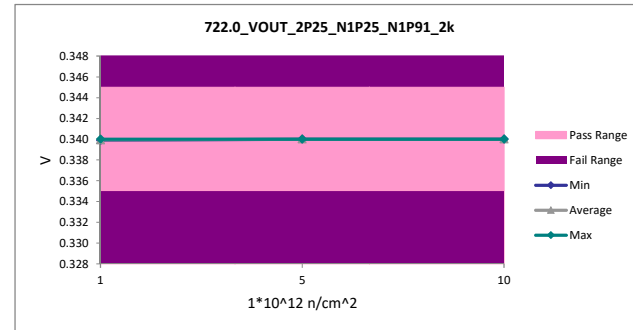
NDD Report
OPA4H014-SEP

722.0_VOUT_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	-0.03%	1.00%
1	2	0.340	0.340	0.000	0.00%	0.00%
1	3	0.340	0.340	0.000	-0.06%	2.00%
5	4	0.340	0.340	0.000	-0.03%	1.00%
5	5	0.340	0.340	0.000	0.00%	0.00%
5	6	0.340	0.340	0.000	0.00%	0.00%
10	7	0.340	0.340	0.000	0.00%	0.00%
10	8	0.340	0.340	0.000	-0.03%	1.00%
10	9	0.340	0.340	0.000	-0.03%	1.00%
Max		0.340	0.340	0.000	0.00%	2.00%
Average		0.340	0.340	0.000	-0.02%	0.67%
Min		0.340	0.340	0.000	-0.06%	0.00%
Std Dev		0.000	0.000	0.000	0.02%	0.71%



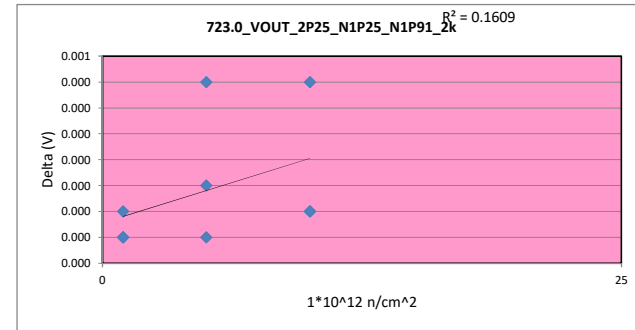
722.0_VOUT_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345	V	
Min Limit	0.335	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



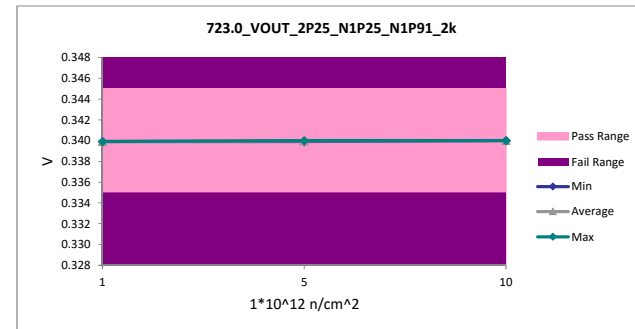
NDD Report
OPA4H014-SEP

723.0_VOUT_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	-0.06%	2.00%
1	2	0.340	0.340	0.000	-0.03%	1.00%
1	3	0.340	0.340	0.000	-0.06%	2.00%
5	4	0.340	0.340	0.000	0.12%	4.00%
5	5	0.340	0.340	0.000	-0.06%	2.00%
5	6	0.340	0.340	0.000	0.00%	0.00%
10	7	0.340	0.340	0.000	-0.03%	1.00%
10	8	0.340	0.340	0.000	-0.03%	1.00%
10	9	0.340	0.340	0.000	0.12%	4.00%
Max		0.340	0.340	0.000	0.12%	4.00%
Average		0.340	0.340	0.000	0.00%	1.89%
Min		0.340	0.340	0.000	-0.06%	0.00%
Std Dev		0.000	0.000	0.000	0.07%	1.36%



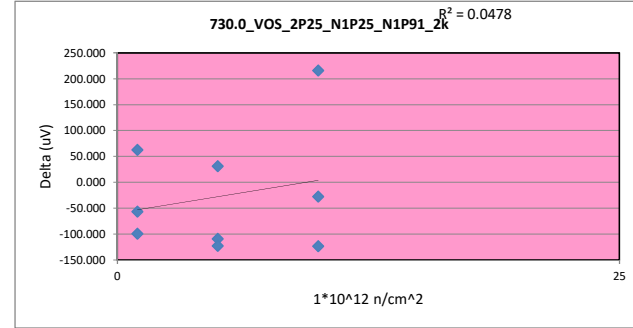
723.0_VOUT_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345 V		
Min Limit	0.335 V		
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



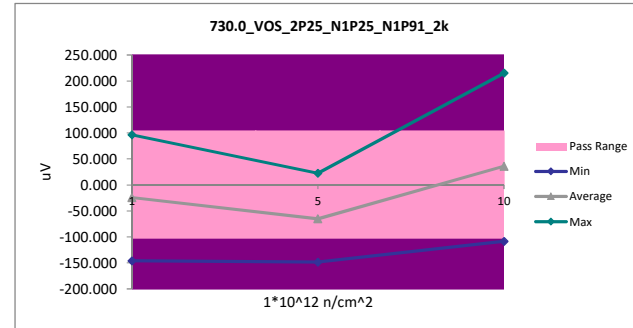
NDD Report
OPA4H014-SEP

730.0_VOS_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	96.770	33.900	62.870	64.97%	30.23%
1	2	-22.370	34.180	-56.550	252.79%	27.19%
1	3	-146.440	-47.120	-99.320	67.82%	47.75%
5	4	-69.480	39.470	-108.950	156.81%	52.38%
5	5	-148.440	-25.410	-123.030	82.88%	59.15%
5	6	22.540	-8.680	31.220	138.51%	15.01%
10	7	-108.500	15.220	-123.720	114.03%	59.48%
10	8	1.430	28.920	-27.490	-1922.38%	13.22%
10	9	215.160	-0.420	215.580	100.20%	103.64%
Max		215.160	39.470	215.580	252.79%	103.64%
Average		-17.703	7.784	-25.488	-104.93%	45.34%
Min		-148.440	-47.120	-123.720	-1922.38%	13.22%
Std Dev		119.335	30.289	112.742	684.00%	28.19%



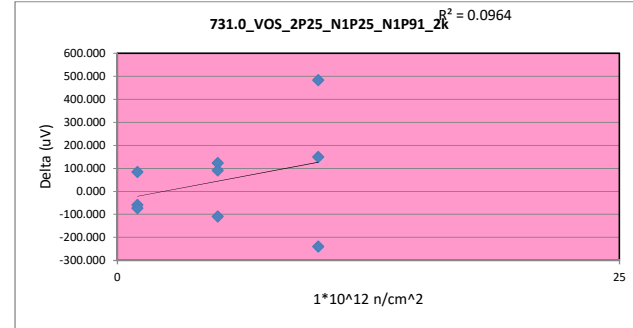
730.0_VOS_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	-146.440	-148.440	-108.500
Average	-24.013	-65.127	36.030
Max	96.770	22.540	215.160
UL	104.000	104.000	104.000



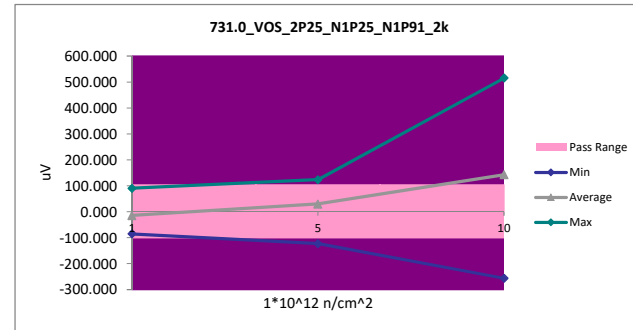
NDD Report OPA4H014-SEP

731.0_VOS_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-49.300	9.930	-59.230	120.14%	28.48%
1	2	90.730	7.130	83.600	92.14%	40.19%
1	3	-85.600	-12.110	-73.490	85.85%	35.33%
5	4	124.030	1.160	122.870	99.06%	59.07%
5	5	89.120	-2.390	91.510	102.68%	44.00%
5	6	-122.810	-13.270	-109.540	89.19%	52.66%
10	7	-256.680	-16.470	-240.210	93.58%	115.49%
10	8	515.280	32.250	483.030	93.74%	232.23%
10	9	169.230	20.140	149.090	88.10%	71.68%
Max		515.280	32.250	483.030	120.14%	232.23%
Average		52.667	2.930	49.737	96.06%	75.46%
Min		-256.680	-16.470	-240.210	85.85%	28.48%
Std Dev		221.210	16.275	206.867	10.45%	64.26%



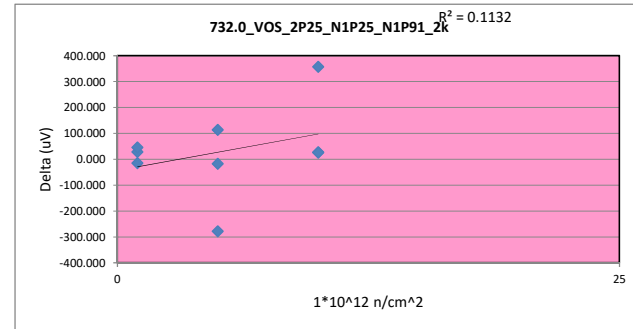
731.0_VOS_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	-85.600	-122.810	-256.680
Average	-14.723	30.113	142.610
Max	90.730	124.030	515.280
UL	104.000	104.000	104.000



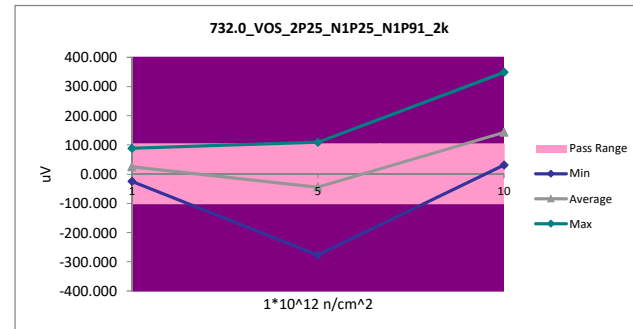
NDD Report OPA4H014-SEP

732.0_VOS_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-24.560	-9.630	-14.930	60.79%	7.18%
1	2	8.950	-19.780	28.730	321.01%	13.81%
1	3	88.270	43.160	45.110	51.10%	21.69%
5	4	35.020	52.820	-17.800	-50.83%	8.56%
5	5	-277.070	0.890	-277.960	100.32%	133.63%
5	6	108.650	-4.630	113.280	104.26%	54.46%
10	7	31.030	4.460	26.570	85.63%	12.77%
10	8	49.470	23.810	25.660	51.87%	12.34%
10	9	348.380	-9.170	357.550	102.63%	171.90%
	Max	348.380	52.820	357.550	321.01%	171.90%
	Average	40.904	9.103	31.801	91.86%	48.48%
	Min	-277.070	-19.780	-277.960	-50.83%	7.18%
	Std Dev	161.243	25.209	163.401	98.41%	61.56%



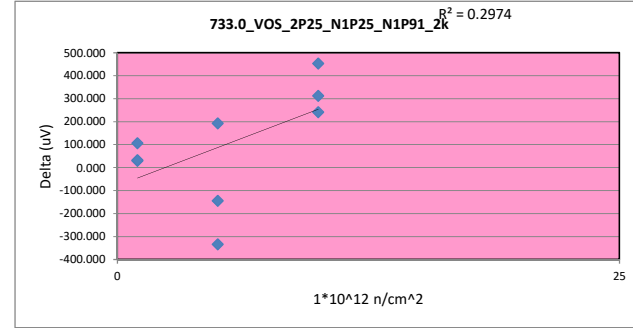
732.0_VOS_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	-24.560	-277.070	31.030
Average	24.220	-44.467	142.960
Max	88.270	108.650	348.380
UL	104.000	104.000	104.000



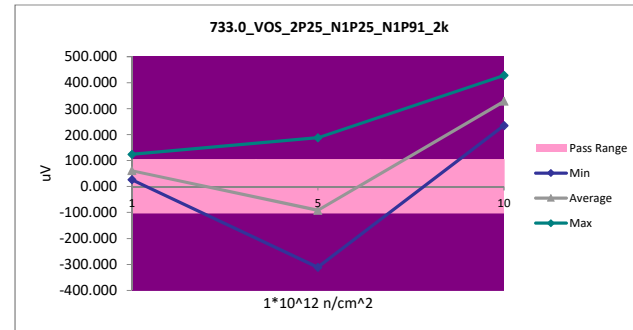
NDD Report OPA4H014-SEP

733.0_VOS_2P25_N1P25_N1P91_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	104	104
Min Limit	-104	-104

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	26.090	-3.710	29.800	114.22%	14.33%
1	2	124.080	18.250	105.830	85.29%	50.88%
1	3	32.490	0.320	32.170	99.02%	15.47%
5	4	-311.260	22.280	-333.540	107.16%	160.36%
5	5	188.230	-4.370	192.600	102.32%	92.60%
5	6	-151.330	-6.340	-144.990	95.81%	69.71%
10	7	321.010	8.930	312.080	97.22%	150.04%
10	8	427.680	-25.790	453.470	106.03%	218.01%
10	9	234.680	-6.860	241.540	102.92%	116.12%
	Max	427.680	22.280	453.470	114.22%	218.01%
	Average	99.074	0.301	98.773	101.11%	98.61%
	Min	-311.260	-25.790	-333.540	85.29%	14.33%
	Std Dev	230.499	14.550	238.761	8.18%	69.09%



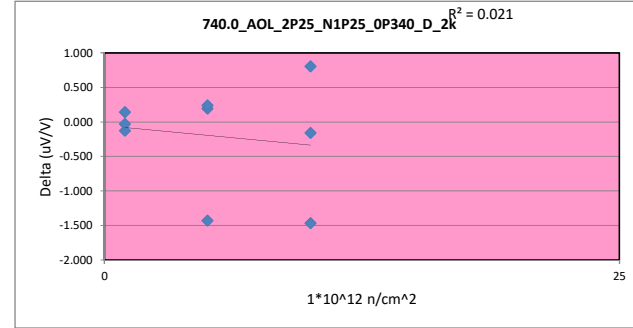
733.0_VOS_2P25_N1P25_N1P91_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	104	uV	
Min Limit	-104	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-104.000	-104.000	-104.000
Min	26.090	-311.260	234.680
Average	60.887	-91.453	327.790
Max	124.080	188.230	427.680
UL	104.000	104.000	104.000



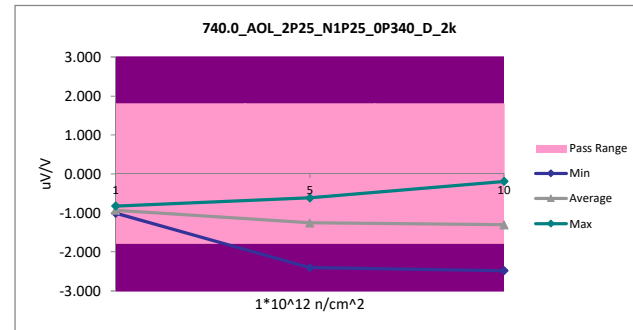
NDD Report OPA4H014-SEP

740.0_AOL_2P25_N1P25_OP340		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.8	1.8
Min Limit	-1.8	-1.8

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-1.008	-0.878	-0.129	12.82%	3.59%
1	2	-0.824	-0.966	0.142	-17.20%	3.94%
1	3	-0.956	-0.927	-0.029	3.05%	0.81%
5	4	-0.733	-0.926	0.193	-26.35%	5.36%
5	5	-2.411	-0.979	-1.432	59.41%	39.78%
5	6	-0.616	-0.854	0.238	-38.57%	6.60%
10	7	-2.483	-1.016	-1.467	59.08%	40.74%
10	8	-0.190	-0.992	0.802	-423.15%	22.29%
10	9	-1.245	-1.085	-0.161	12.90%	4.46%
	Max	-0.190	-0.854	0.802	59.41%	40.74%
	Average	-1.163	-0.958	-0.205	-39.78%	14.17%
	Min	-2.483	-1.085	-1.467	-423.15%	0.81%
	Std Dev	0.784	0.071	0.760	147.76%	16.02%



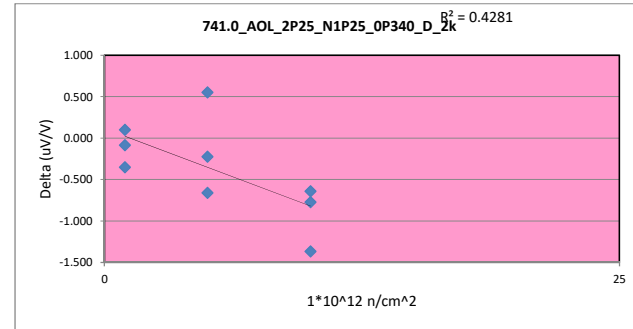
740.0_AOL_2P25_N1P25_OP340			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.8	uV/V	
Min Limit	-1.8	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.800	-1.800	-1.800
Min	-1.008	-2.411	-2.483
Average	-0.929	-1.253	-1.306
Max	-0.824	-0.616	-0.190
UL	1.800	1.800	1.800



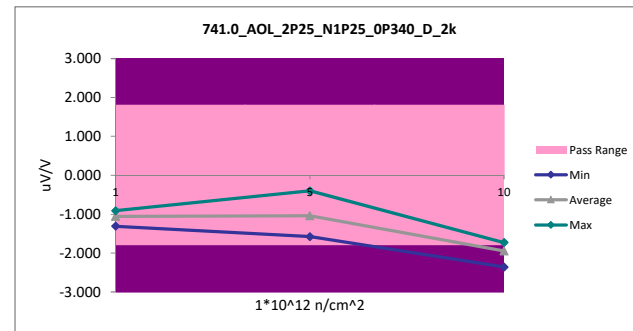
NDD Report OPA4H014-SEP

741.0_AOL_2P25_N1P25_OP340		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.8	1.8
Min Limit	-1.8	-1.8

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.949	-0.864	-0.085	8.94%	2.36%
1	2	-0.913	-1.012	0.099	-10.84%	2.75%
1	3	-1.308	-0.956	-0.352	26.88%	9.77%
5	4	-1.153	-0.927	-0.225	19.56%	6.26%
5	5	-0.400	-0.954	0.554	-138.29%	15.38%
5	6	-1.577	-0.918	-0.659	41.79%	18.30%
10	7	-2.357	-0.990	-1.367	57.99%	37.96%
10	8	-1.750	-0.979	-0.771	44.06%	21.42%
10	9	-1.729	-1.089	-0.640	37.03%	17.79%
	Max	-0.400	-0.864	0.554	57.99%	37.96%
	Average	-1.349	-0.966	-0.383	9.68%	14.67%
	Min	-2.357	-1.089	-1.367	-138.29%	2.36%
	Std Dev	0.577	0.064	0.557	59.17%	11.18%



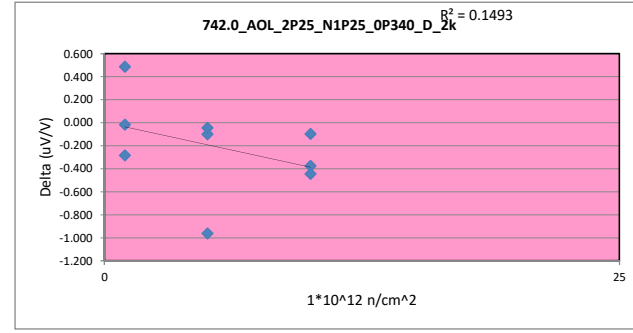
741.0_AOL_2P25_N1P25_OP340			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.8	uV/V	
Min Limit	-1.8	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.800	-1.800	-1.800
Min	-1.308	-1.577	-2.357
Average	-1.057	-1.043	-1.945
Max	-0.913	-0.400	-1.729
UL	1.800	1.800	1.800



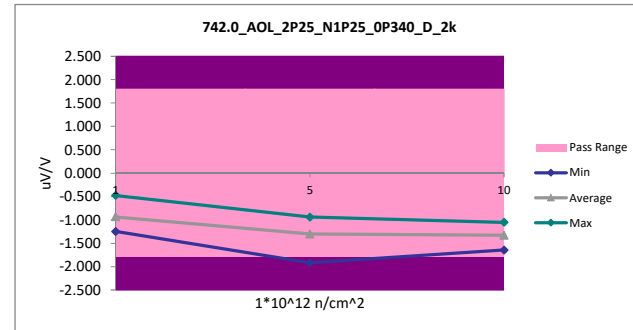
NDD Report
OPA4H014-SEP

742.0_AOL_2P25_N1P25_OP340		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.8	1.8
Min Limit	-1.8	-1.8

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.479	-0.965	0.486	-101.61%	13.51%
1	2	-1.083	-1.066	-0.017	1.60%	0.48%
1	3	-1.248	-0.965	-0.283	22.70%	7.87%
5	4	-1.919	-0.957	-0.962	50.14%	26.73%
5	5	-1.045	-0.944	-0.101	9.64%	2.80%
5	6	-0.939	-0.893	-0.046	4.87%	1.27%
10	7	-1.292	-0.916	-0.376	29.10%	10.44%
10	8	-1.052	-0.954	-0.098	9.36%	2.74%
10	9	-1.645	-1.199	-0.445	27.09%	12.37%
Max		-0.479	-0.893	0.486	50.14%	26.73%
Average		-1.189	-0.984	-0.205	5.88%	8.69%
Min		-1.919	-1.199	-0.962	-101.61%	0.48%
Std Dev		0.414	0.094	0.392	43.06%	8.35%



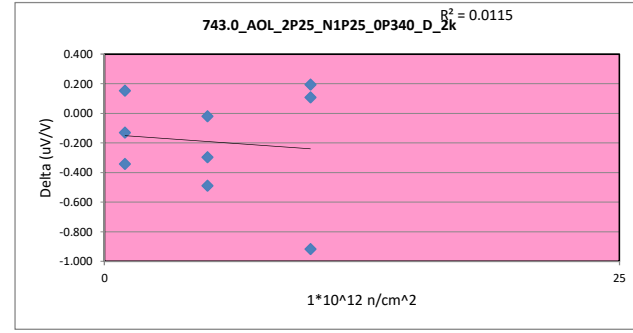
742.0_AOL_2P25_N1P25_OP340			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.8	uV/V	
Min Limit	-1.8	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.800	-1.800	-1.800
Min	-1.248	-1.919	-1.645
Average	-0.937	-1.301	-1.330
Max	-0.479	-0.939	-1.052
UL	1.800	1.800	1.800



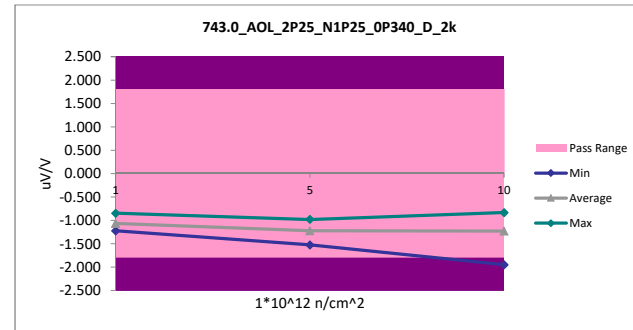
NDD Report
OPA4H014-SEP

743.0_AOL_2P25_N1P25_OP340		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.8	1.8
Min Limit	-1.8	-1.8

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-1.226	-0.884	-0.343	27.94%	9.52%
1	2	-0.852	-1.004	0.152	-17.87%	4.23%
1	3	-1.122	-0.991	-0.131	11.65%	3.63%
5	4	-1.528	-1.038	-0.490	32.09%	13.62%
5	5	-0.984	-0.963	-0.021	2.13%	0.58%
5	6	-1.178	-0.882	-0.297	25.17%	8.24%
10	7	-1.951	-1.034	-0.917	47.00%	25.48%
10	8	-0.834	-1.028	0.194	-23.28%	5.39%
10	9	-0.917	-1.025	0.108	-11.82%	3.01%
Max		-0.834	-0.882	0.194	47.00%	25.48%
Average		-1.177	-0.983	-0.194	10.33%	8.19%
Min		-1.951	-1.038	-0.917	-23.28%	0.58%
Std Dev		0.363	0.062	0.360	24.58%	7.58%



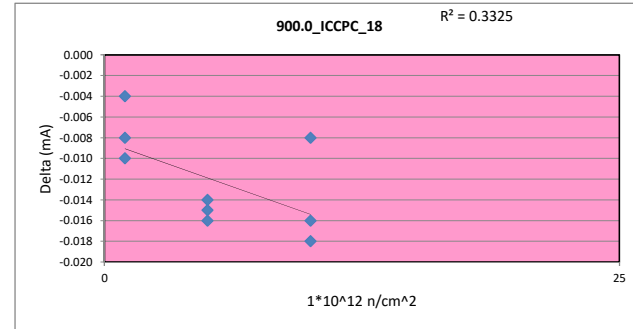
743.0_AOL_2P25_N1P25_OP340			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.8	uV/V	
Min Limit	-1.8	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.800	-1.800	-1.800
Min	-1.226	-1.528	-1.951
Average	-1.067	-1.230	-1.234
Max	-0.852	-0.984	-0.834
UL	1.800	1.800	1.800



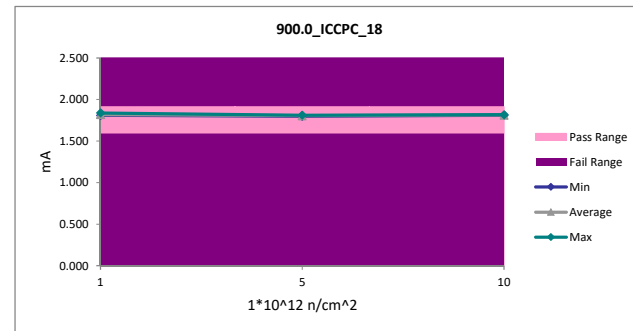
NDD Report OPA4H014-SEP

900.0_ICCPC_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	1.91	1.91
Min Limit	1.59	1.59

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.809	1.819	-0.010	-0.55%	3.12%
1	2	1.811	1.815	-0.004	-0.22%	1.25%
1	3	1.837	1.845	-0.008	-0.44%	2.50%
5	4	1.809	1.825	-0.016	-0.88%	5.00%
5	5	1.811	1.825	-0.014	-0.77%	4.38%
5	6	1.797	1.812	-0.015	-0.83%	4.69%
10	7	1.813	1.831	-0.018	-0.99%	5.63%
10	8	1.811	1.827	-0.016	-0.88%	5.00%
10	9	1.817	1.825	-0.008	-0.44%	2.50%
Max		1.837	1.845	-0.004	-0.22%	5.63%
Average		1.813	1.825	-0.012	-0.67%	3.78%
Min		1.797	1.812	-0.018	-0.99%	1.25%
Std Dev		0.011	0.010	0.005	0.26%	1.49%



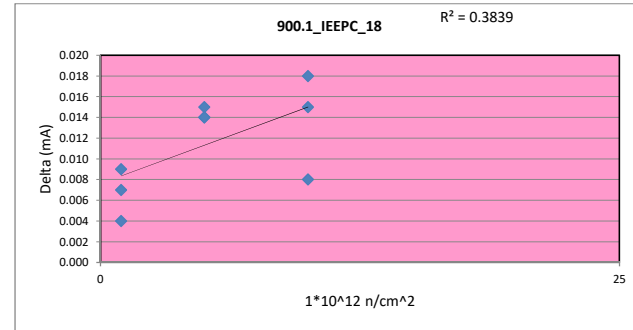
900.0_ICCPC_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.91	mA	
Min Limit	1.59	mA	
1*10 ¹² n/cm ²	1	5	10
LL	1.590	1.590	1.590
Min	1.809	1.797	1.811
Average	1.819	1.806	1.814
Max	1.837	1.811	1.817
UL	1.910	1.910	1.910



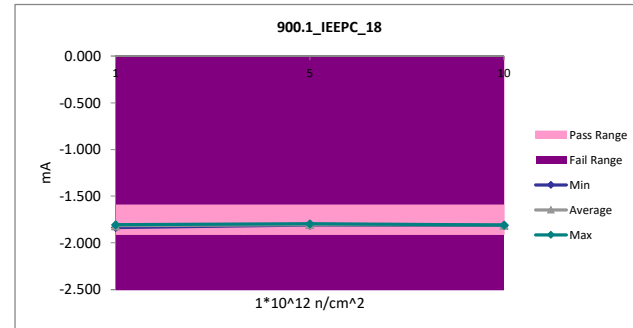
NDD Report
OPA4H014-SEP

900.1_IEEPC_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-1.59	-1.59
Min Limit	-1.91	-1.91

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-1.807	-1.816	0.009	-0.50%	2.81%
1	2	-1.808	-1.812	0.004	-0.22%	1.25%
1	3	-1.835	-1.842	0.007	-0.38%	2.19%
5	4	-1.807	-1.822	0.015	-0.83%	4.69%
5	5	-1.809	-1.823	0.014	-0.77%	4.37%
5	6	-1.795	-1.809	0.014	-0.78%	4.38%
10	7	-1.810	-1.828	0.018	-0.99%	5.63%
10	8	-1.809	-1.824	0.015	-0.83%	4.69%
10	9	-1.815	-1.823	0.008	-0.44%	2.50%
Max		-1.795	-1.809	0.018	-0.22%	5.63%
Average		-1.811	-1.822	0.012	-0.64%	3.61%
Min		-1.835	-1.842	0.004	-0.99%	1.25%
Std Dev		0.011	0.010	0.005	0.26%	1.46%



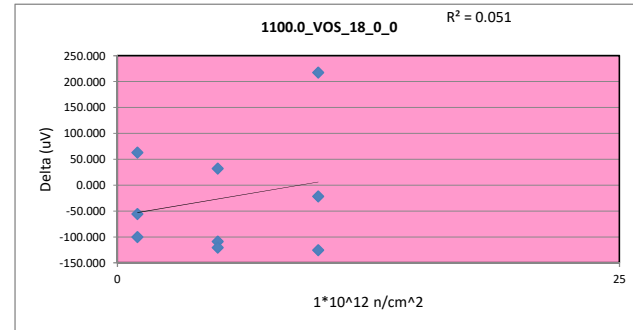
900.1_IEEPC_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-1.59	mA	
Min Limit	-1.91	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-1.910	-1.910	-1.910
Min	-1.835	-1.809	-1.815
Average	-1.817	-1.804	-1.811
Max	-1.807	-1.795	-1.809
UL	-1.590	-1.590	-1.590



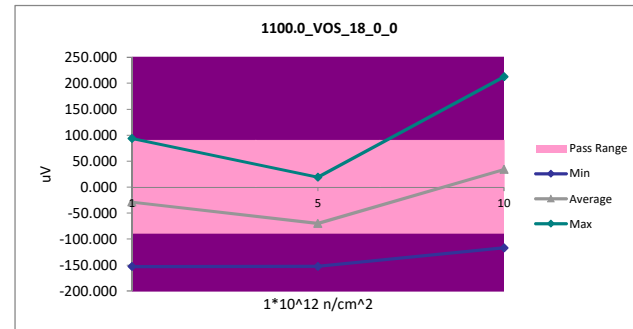
NDD Report OPA4H014-SEP

1100.0 VOS 18 0 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	90	90
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	93.650	30.650	63.000	67.27%	35.00%
1	2	-27.170	28.850	-56.020	206.18%	31.12%
1	3	-152.940	-52.680	-100.260	65.56%	55.70%
5	4	-76.360	32.790	-109.150	142.94%	60.64%
5	5	-152.920	-32.190	-120.730	78.95%	67.07%
5	6	19.190	-12.720	31.910	166.28%	17.73%
10	7	-116.800	8.510	-125.310	107.29%	69.62%
10	8	6.230	27.800	-21.570	-346.23%	11.98%
10	9	212.680	-4.790	217.470	102.25%	120.82%
	Max	212.680	32.790	217.470	206.18%	120.82%
	Average	-21.604	2.913	-24.518	65.61%	52.19%
	Min	-152.940	-52.680	-125.310	-346.23%	11.98%
	Std Dev	121.035	30.846	113.313	161.53%	33.28%



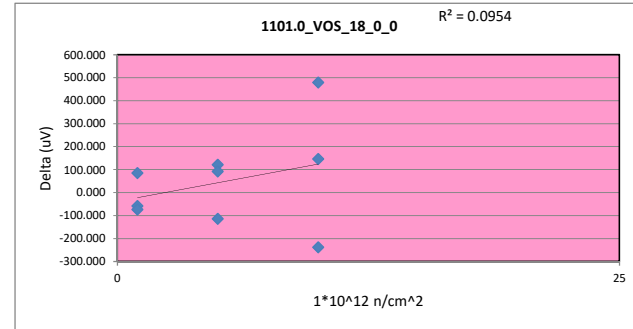
1100.0 VOS 18 0 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	90	uV	
Min Limit	-90	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-90.000	-90.000	-90.000
Min	-152.940	-152.920	-116.800
Average	-28.820	-70.030	34.037
Max	93.650	19.190	212.680
UL	90.000	90.000	90.000



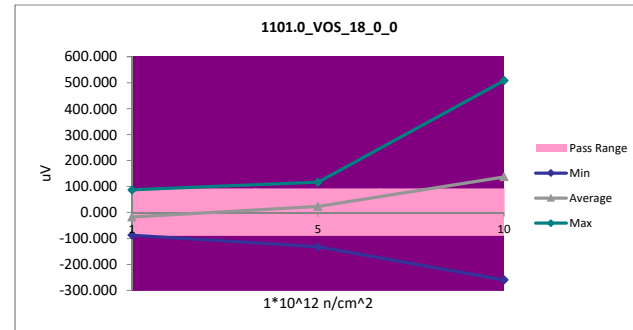
NDD Report OPA4H014-SEP

1101.0 VOS 18 0 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	90	90
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-51.830	7.100	-58.930	113.70%	32.74%
1	2	86.830	2.280	84.550	97.37%	46.97%
1	3	-87.240	-12.990	-74.250	85.11%	41.25%
5	4	115.880	-5.000	120.880	104.31%	67.16%
5	5	84.100	-7.680	91.780	109.13%	50.99%
5	6	-132.570	-17.850	-114.720	86.54%	63.73%
10	7	-259.890	-21.700	-238.190	91.65%	132.33%
10	8	508.110	29.210	478.900	94.25%	266.06%
10	9	162.570	15.960	146.610	90.18%	81.45%
	Max	508.110	29.210	478.900	113.70%	266.06%
	Average	47.329	-1.186	48.514	96.92%	86.96%
	Min	-259.890	-21.700	-238.190	85.11%	32.74%
	Std Dev	220.199	16.557	205.767	10.08%	73.33%



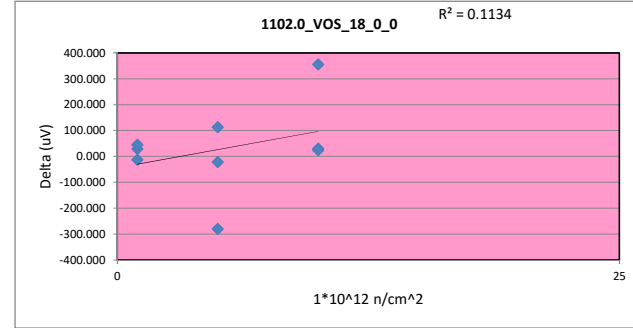
1101.0 VOS 18 0 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	90	uV	
Min Limit	-90	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-90.000	-90.000	-90.000
Min	-87.240	-132.570	-259.890
Average	-17.413	22.470	136.930
Max	86.830	115.880	508.110
UL	90.000	90.000	90.000



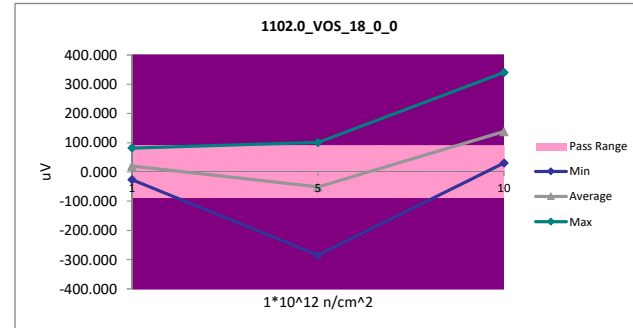
NDD Report
OPA4H014-SEP

1102.0 VOS 18 0 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	90	90
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-25.820	-12.190	-13.630	52.79%	7.57%
1	2	4.430	-23.940	28.370	640.41%	15.76%
1	3	82.110	37.570	44.540	54.24%	24.74%
5	4	29.200	50.580	-21.380	-73.22%	11.88%
5	5	-284.550	-4.350	-280.200	98.47%	155.67%
5	6	101.230	-11.510	112.740	111.37%	62.63%
10	7	30.440	-0.190	30.630	100.62%	17.02%
10	8	44.170	20.230	23.940	54.20%	13.30%
10	9	340.520	-14.910	355.430	104.38%	197.46%
	Max	340.520	50.580	355.430	640.41%	197.46%
	Average	35.748	4.588	31.160	127.03%	56.23%
	Min	-284.550	-23.940	-280.200	-73.22%	7.57%
	Std Dev	160.790	25.703	163.461	200.64%	70.90%



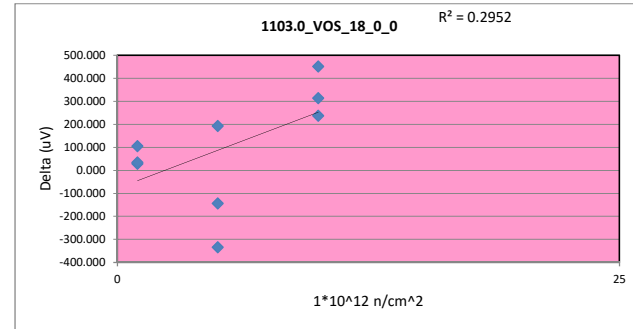
1102.0 VOS 18 0 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	90	uV	
Min Limit	-90	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-90.000	-90.000	-90.000
Min	-25.820	-284.550	30.440
Average	20.240	-51.373	138.377
Max	82.110	101.230	340.520
UL	90.000	90.000	90.000



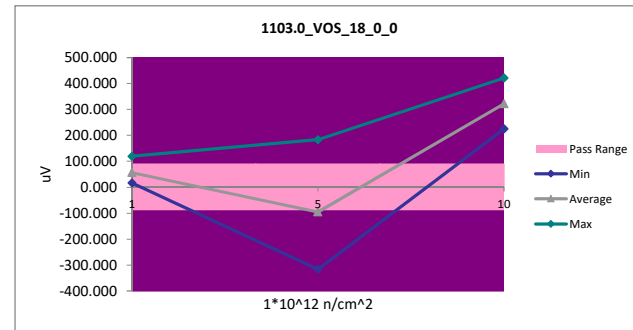
NDD Report OPA4H014-SEP

1103.0 VOS 18 0 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	90	90
Min Limit	-90	-90

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	16.430	-11.970	28.400	172.85%	15.78%
1	2	119.390	14.440	104.950	87.91%	58.31%
1	3	32.900	-1.510	34.410	104.59%	19.12%
5	4	-316.500	18.060	-334.560	105.71%	185.87%
5	5	183.250	-9.800	193.050	105.35%	107.25%
5	6	-153.480	-9.140	-144.340	94.04%	80.19%
10	7	319.550	5.250	314.300	98.36%	174.61%
10	8	421.420	-29.290	450.710	106.95%	250.39%
10	9	224.910	-12.300	237.210	105.47%	131.78%
	Max	421.420	18.060	450.710	172.85%	250.39%
	Average	94.208	-4.029	98.237	109.02%	113.70%
	Min	-316.500	-29.290	-334.560	87.91%	15.78%
	Std Dev	230.036	14.792	238.321	24.80%	79.61%



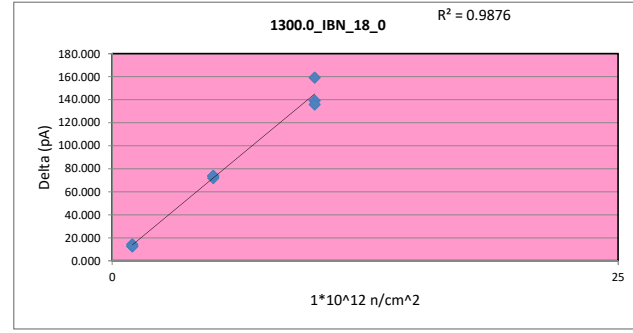
1103.0 VOS 18 0 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	90	uV	
Min Limit	-90	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-90.000	-90.000	-90.000
Min	16.430	-316.500	224.910
Average	56.240	-95.577	321.960
Max	119.390	183.250	421.420
UL	90.000	90.000	90.000



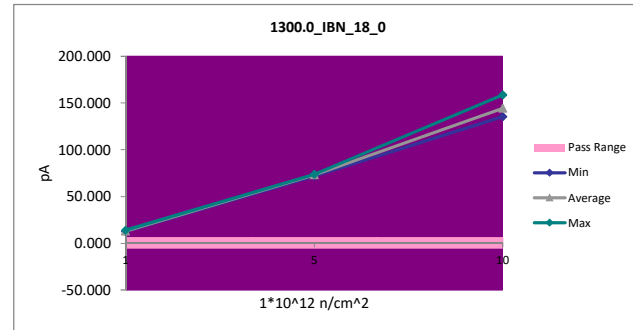
NDD Report
OPA4H014-SEP

1300.0 IBN 18 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	12.500	-0.240	12.740	101.92%	106.17%
1	2	14.000	-0.210	14.210	101.50%	118.42%
1	3	12.590	-0.130	12.720	101.03%	106.00%
5	4	73.590	-0.090	73.680	100.12%	614.00%
5	5	71.630	-0.250	71.880	100.35%	599.00%
5	6	73.740	-0.220	73.960	100.30%	616.33%
10	7	138.900	-0.250	139.150	100.18%	1159.58%
10	8	135.500	-0.240	135.740	100.18%	1131.17%
10	9	158.760	-0.330	159.090	100.21%	1325.75%
	Max	158.760	-0.090	159.090	101.92%	1325.75%
	Average	76.801	-0.218	77.019	100.64%	641.82%
	Min	12.500	-0.330	12.720	100.12%	106.00%
	Std Dev	57.301	0.070	57.339	0.67%	477.83%



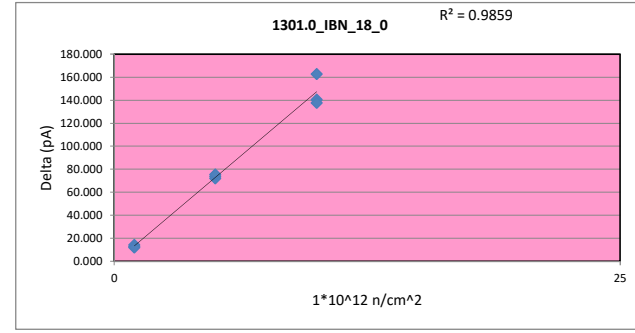
1300.0 IBN 18 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	12.500	71.630	135.500
Average	13.030	72.987	144.387
Max	14.000	73.740	158.760
UL	6.000	6.000	6.000



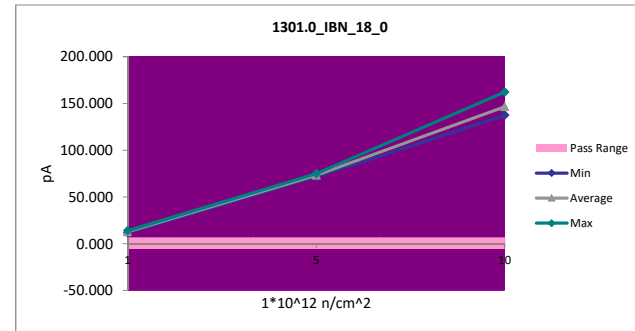
NDD Report OPA4H014-SEP

1301.0 IBN 18 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	12.670	-0.240	12.910	101.89%	107.58%
1	2	13.880	-0.350	14.230	102.52%	118.58%
1	3	11.680	-0.220	11.900	101.88%	99.17%
5	4	73.470	-0.180	73.650	100.24%	613.75%
5	5	71.500	-0.420	71.920	100.59%	599.33%
5	6	74.870	-0.440	75.310	100.59%	627.58%
10	7	139.700	-0.720	140.420	100.52%	1170.17%
10	8	137.400	-0.360	137.760	100.26%	1148.00%
10	9	162.220	-0.490	162.710	100.30%	1355.92%
	Max	162.220	-0.180	162.710	102.52%	1355.92%
	Average	77.488	-0.380	77.868	100.98%	648.90%
	Min	11.680	-0.720	11.900	100.24%	99.17%
	Std Dev	58.391	0.166	58.501	0.87%	487.51%



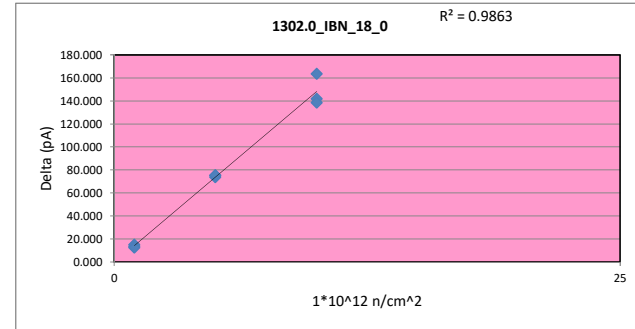
1301.0 IBN 18 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	11.680	71.500	137.400
Average	12.743	73.280	146.440
Max	13.880	74.870	162.220
UL	6.000	6.000	6.000



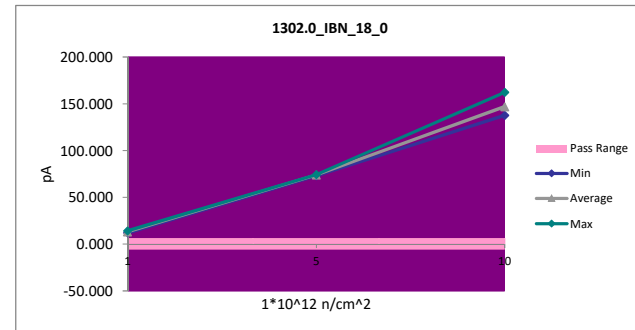
NDD Report OPA4H014-SEP

1302.0 IBN 18 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	12.760	-0.820	13.580	106.43%	113.17%
1	2	14.240	-0.780	15.020	105.48%	125.17%
1	3	11.930	-0.720	12.650	106.04%	105.42%
5	4	74.380	-0.830	75.210	101.12%	626.75%
5	5	73.010	-0.750	73.760	101.03%	614.67%
5	6	74.380	-0.890	75.270	101.20%	627.25%
10	7	141.030	-0.700	141.730	100.50%	1181.08%
10	8	137.760	-0.710	138.470	100.52%	1153.92%
10	9	162.340	-1.070	163.410	100.66%	1361.75%
	Max	162.340	-0.700	163.410	106.43%	1361.75%
	Average	77.981	-0.808	78.789	102.55%	656.57%
	Min	11.930	-1.070	12.650	100.50%	105.42%
	Std Dev	58.518	0.117	58.553	2.60%	487.94%



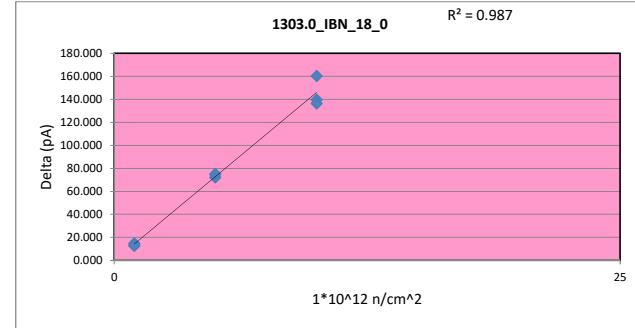
1302.0 IBN 18 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	11.930	73.010	137.760
Average	12.977	73.923	147.043
Max	14.240	74.380	162.340
UL	6.000	6.000	6.000



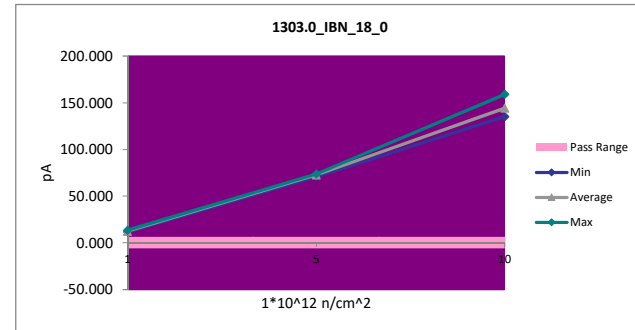
NDD Report
OPA4H014-SEP

1303.0 IBN 18 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	12.120	-1.100	13.220	109.08%	110.17%
1	2	13.550	-1.150	14.700	108.49%	122.50%
1	3	11.660	-0.980	12.640	108.40%	105.33%
5	4	73.790	-1.170	74.960	101.59%	624.67%
5	5	70.790	-1.300	72.090	101.84%	600.75%
5	6	73.780	-1.230	75.010	101.67%	625.08%
10	7	138.540	-1.220	139.760	100.88%	1164.67%
10	8	135.300	-1.180	136.480	100.87%	1137.33%
10	9	158.980	-1.240	160.220	100.78%	1335.17%
	Max	158.980	-0.980	160.220	109.08%	1335.17%
	Average	76.501	-1.174	77.676	103.73%	647.30%
	Min	11.660	-1.300	12.640	100.78%	105.33%
	Std Dev	57.520	0.093	57.578	3.72%	479.82%



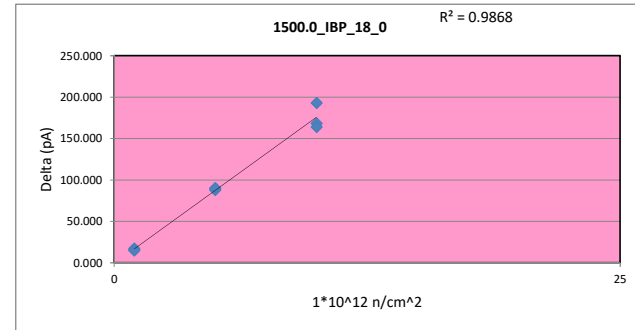
1303.0 IBN 18 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	11.660	70.790	135.300
Average	12.443	72.787	144.273
Max	13.550	73.790	158.980
UL	6.000	6.000	6.000



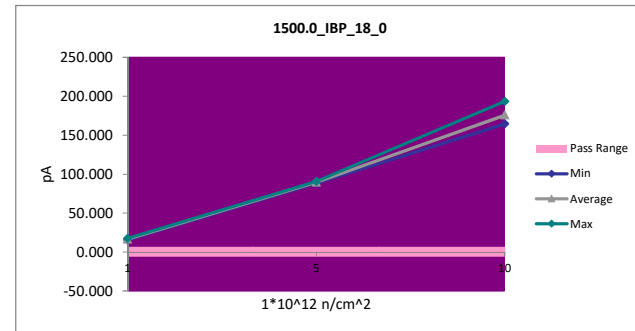
NDD Report OPA4H014-SEP

1500.0_IBP_18_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	16.070	0.570	15.500	96.45%	129.17%
1	2	17.680	0.560	17.120	96.83%	142.67%
1	3	15.620	0.560	15.060	96.41%	125.50%
5	4	90.020	0.550	89.470	99.39%	745.58%
5	5	88.390	0.510	87.880	99.42%	732.33%
5	6	90.670	0.540	90.130	99.40%	751.08%
10	7	168.680	0.560	168.120	99.67%	1401.00%
10	8	164.570	0.560	164.010	99.66%	1366.75%
10	9	193.590	0.620	192.970	99.68%	1608.08%
	Max	193.590	0.620	192.970	99.68%	1608.08%
	Average	93.921	0.559	93.362	98.55%	778.02%
	Min	15.620	0.510	15.060	96.41%	125.50%
	Std Dev	69.440	0.029	69.430	1.49%	578.58%



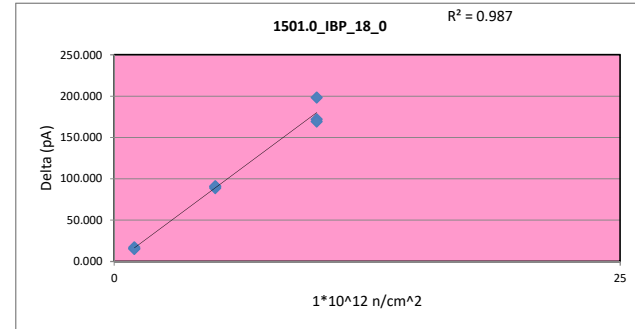
1500.0_IBP_18_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	15.620	88.390	164.570
Average	16.457	89.693	175.613
Max	17.680	90.670	193.590
UL	6.000	6.000	6.000



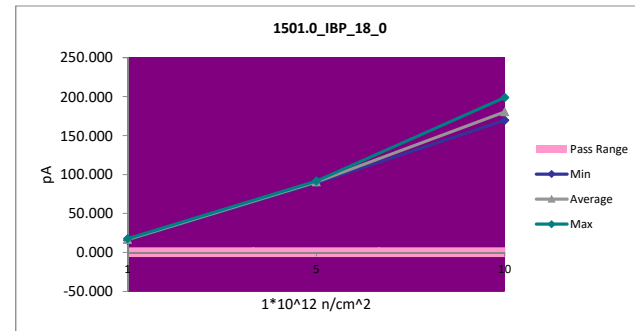
NDD Report OPA4H014-SEP

1501.0 IBP_18_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	16.080	0.480	15.600	97.01%	130.00%
1	2	17.790	0.400	17.390	97.75%	144.92%
1	3	15.720	0.510	15.210	96.76%	126.75%
5	4	90.830	0.410	90.420	99.55%	753.50%
5	5	89.220	0.390	88.830	99.56%	740.25%
5	6	91.590	0.380	91.210	99.59%	760.08%
10	7	172.270	0.490	171.780	99.72%	1431.50%
10	8	169.800	0.500	169.300	99.71%	1410.83%
10	9	198.790	0.370	198.420	99.81%	1653.50%
	Max	198.790	0.510	198.420	99.81%	1653.50%
	Average	95.788	0.437	95.351	98.83%	794.59%
	Min	15.720	0.370	15.210	96.76%	126.75%
	Std Dev	71.475	0.057	71.482	1.27%	595.69%



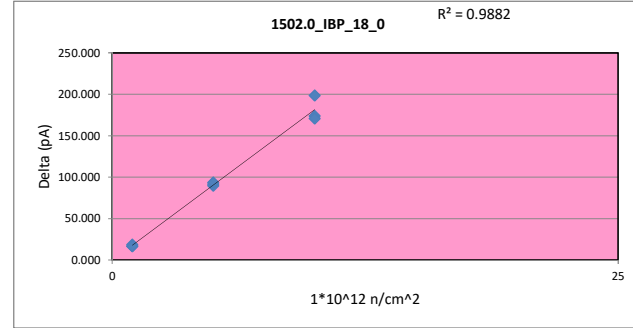
1501.0 IBP_18_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	15.720	89.220	169.800
Average	16.530	90.547	180.287
Max	17.790	91.590	198.790
UL	6.000	6.000	6.000



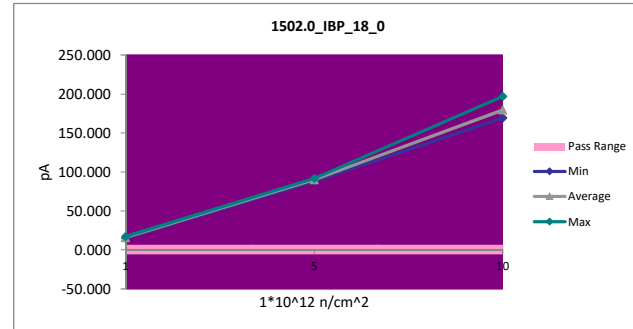
NDD Report
OPA4H014-SEP

1502.0 IBP_18_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	15.400	-1.230	16.630	107.99%	138.58%
1	2	17.220	-1.310	18.530	107.61%	154.42%
1	3	15.050	-1.410	16.460	109.37%	137.17%
5	4	90.320	-1.290	91.610	101.43%	763.42%
5	5	88.200	-1.240	89.440	101.41%	745.33%
5	6	91.920	-1.460	93.380	101.59%	778.17%
10	7	172.100	-1.740	173.840	101.01%	1448.67%
10	8	169.320	-1.250	170.570	100.74%	1421.42%
10	9	197.010	-1.480	198.490	100.75%	1654.08%
	Max	197.010	-1.230	198.490	109.37%	1654.08%
	Average	95.171	-1.379	96.550	103.54%	804.58%
	Min	15.050	-1.740	16.460	100.74%	137.17%
	Std Dev	71.352	0.165	71.430	3.63%	595.25%



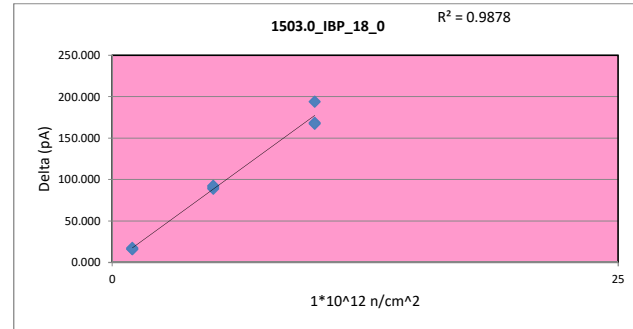
1502.0 IBP_18_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	15.050	88.200	169.320
Average	15.890	90.147	179.477
Max	17.220	91.920	197.010
UL	6.000	6.000	6.000



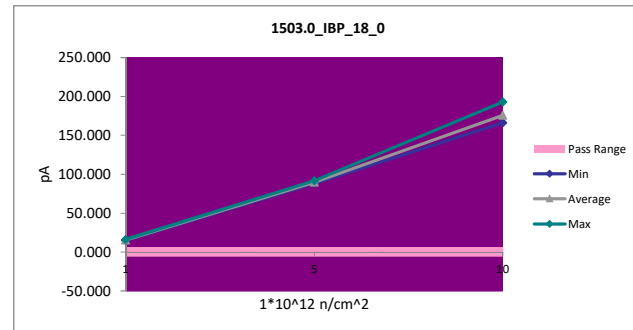
NDD Report OPA4H014-SEP

1503.0_IBP_18_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	15.100	-1.040	16.140	106.89%	134.50%
1	2	16.290	-1.010	17.300	106.20%	144.17%
1	3	14.820	-0.950	15.770	106.41%	131.42%
5	4	89.790	-1.070	90.860	101.19%	757.17%
5	5	87.940	-1.090	89.030	101.24%	741.92%
5	6	91.600	-0.870	92.470	100.95%	770.58%
10	7	167.620	-0.980	168.600	100.58%	1405.00%
10	8	166.170	-1.130	167.300	100.68%	1394.17%
10	9	192.890	-1.020	193.910	100.53%	1615.92%
	Max	192.890	-0.870	193.910	106.89%	1615.92%
	Average	93.580	-1.018	94.598	102.74%	788.31%
	Min	14.820	-1.130	15.770	100.53%	131.42%
	Std Dev	69.821	0.078	69.838	2.83%	581.98%



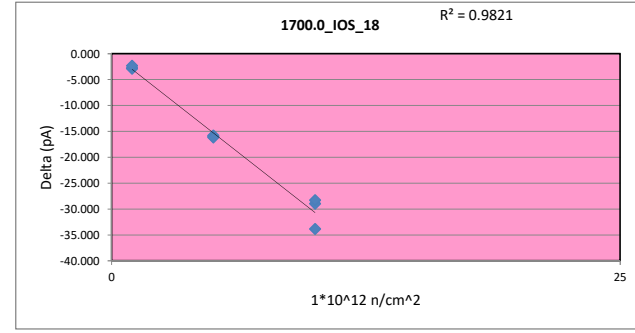
1503.0_IBP_18_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	14.820	87.940	166.170
Average	15.403	89.777	175.560
Max	16.290	91.600	192.890
UL	6.000	6.000	6.000



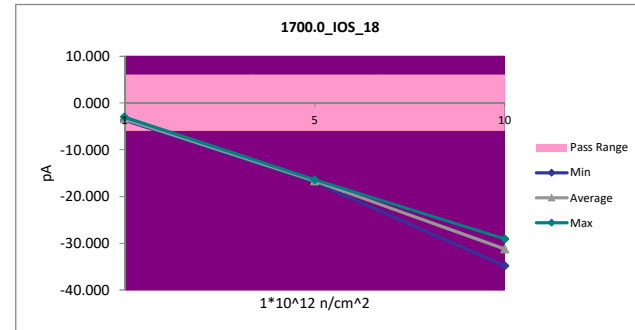
NDD Report
OPA4H014-SEP

1700.0 IOS_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-3.570	-0.800	-2.770	77.59%	23.08%
1	2	-3.670	-0.770	-2.900	79.02%	24.17%
1	3	-3.020	-0.690	-2.330	77.15%	19.42%
5	4	-16.430	-0.640	-15.790	96.10%	131.58%
5	5	-16.760	-0.760	-16.000	95.47%	133.33%
5	6	-16.930	-0.760	-16.170	95.51%	134.75%
10	7	-29.780	-0.810	-28.970	97.28%	241.42%
10	8	-29.070	-0.800	-28.270	97.25%	235.58%
10	9	-34.830	-0.950	-33.880	97.27%	282.33%
	Max	-3.020	-0.640	-2.330	97.28%	282.33%
	Average	-17.118	-0.776	-16.342	90.29%	136.19%
	Min	-34.830	-0.950	-33.880	77.15%	19.42%
	Std Dev	12.148	0.086	12.099	9.32%	100.82%



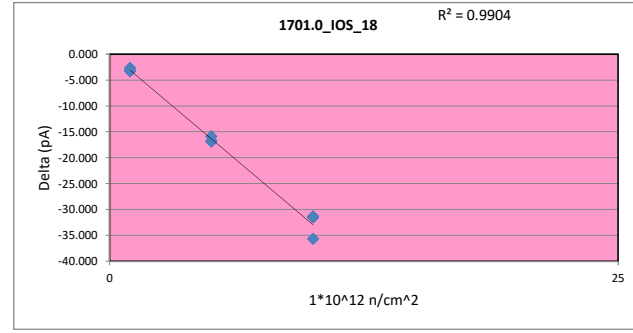
1700.0 IOS_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	-3.670	-16.930	-34.830
Average	-3.420	-16.707	-31.227
Max	-3.020	-16.430	-29.070
UL	6.000	6.000	6.000



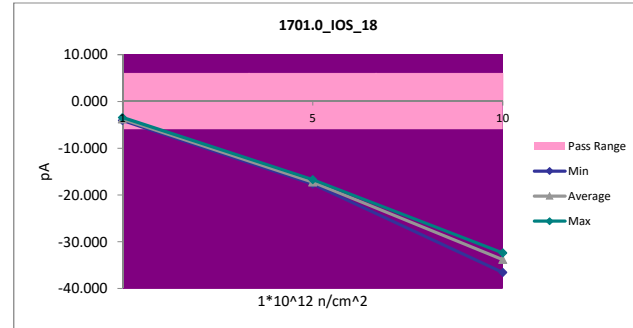
NDD Report OPA4H014-SEP

1701.0 IOS_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-3.420	-0.720	-2.700	78.95%	22.50%
1	2	-3.910	-0.750	-3.160	80.82%	26.33%
1	3	-4.040	-0.740	-3.300	81.68%	27.50%
5	4	-17.360	-0.590	-16.770	96.60%	139.75%
5	5	-17.720	-0.820	-16.900	95.37%	140.83%
5	6	-16.720	-0.830	-15.890	95.04%	132.42%
10	7	-32.580	-1.210	-31.370	96.29%	261.42%
10	8	-32.400	-0.860	-31.540	97.35%	262.83%
10	9	-36.570	-0.870	-35.700	97.62%	297.50%
	Max	-3.420	-0.590	-2.700	97.62%	297.50%
	Average	-18.302	-0.821	-17.481	91.08%	145.68%
	Min	-36.570	-1.210	-35.700	78.95%	22.50%
	Std Dev	13.096	0.170	12.993	8.02%	108.27%



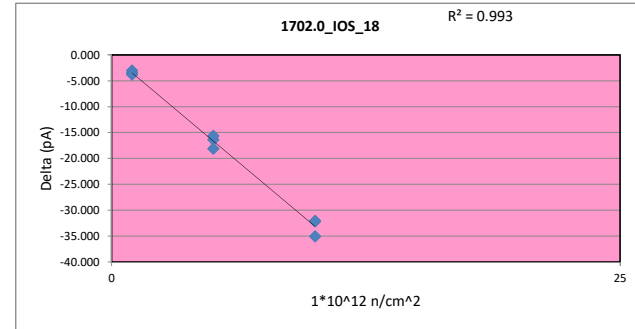
1701.0 IOS_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	-4.040	-17.720	-36.570
Average	-3.790	-17.267	-33.850
Max	-3.420	-16.720	-32.400
UL	6.000	6.000	6.000



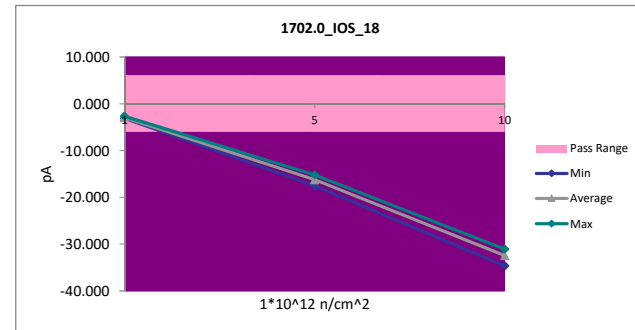
NDD Report OPA4H014-SEP

1702.0 IOS_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-2.640	0.410	-3.050	115.53%	25.42%
1	2	-2.980	0.520	-3.500	117.45%	29.17%
1	3	-3.110	0.690	-3.800	122.19%	31.67%
5	4	-15.940	0.460	-16.400	102.89%	136.67%
5	5	-15.190	0.490	-15.680	103.23%	130.67%
5	6	-17.550	0.570	-18.120	103.25%	151.00%
10	7	-31.080	1.040	-32.120	103.35%	267.67%
10	8	-31.560	0.530	-32.090	101.68%	267.42%
10	9	-34.670	0.400	-35.070	101.15%	292.25%
	Max	-2.640	1.040	-3.050	122.19%	292.25%
	Average	-17.191	0.568	-17.759	107.86%	147.99%
	Min	-34.670	0.400	-35.070	101.15%	25.42%
	Std Dev	12.858	0.198	12.904	8.12%	107.53%



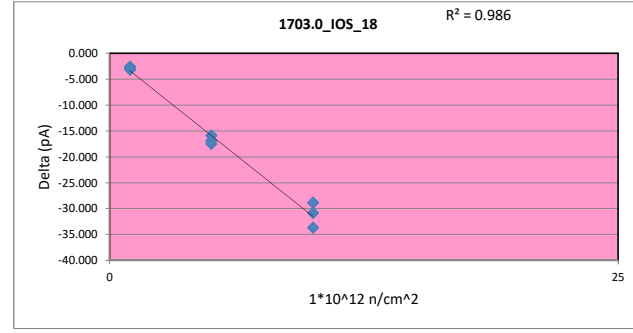
1702.0 IOS_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	-3.110	-17.550	-34.670
Average	-2.910	-16.227	-32.437
Max	-2.640	-15.190	-31.080
UL	6.000	6.000	6.000



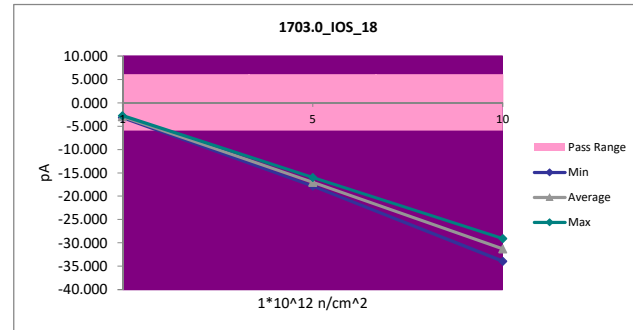
NDD Report OPA4H014-SEP

1703.0 IOS_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	pA	pA
Max Limit	6	6
Min Limit	-6	-6

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-2.980	-0.050	-2.930	98.32%	24.42%
1	2	-2.730	-0.140	-2.590	94.87%	21.58%
1	3	-3.160	-0.030	-3.130	99.05%	26.08%
5	4	-16.000	-0.110	-15.890	99.31%	132.42%
5	5	-17.150	-0.210	-16.940	98.78%	141.17%
5	6	-17.820	-0.360	-17.460	97.98%	145.50%
10	7	-29.080	-0.240	-28.840	99.17%	240.33%
10	8	-30.870	-0.050	-30.820	99.84%	256.83%
10	9	-33.920	-0.220	-33.700	99.35%	280.83%
	Max	-2.730	-0.030	-2.590	99.84%	280.83%
	Average	-17.079	-0.157	-16.922	98.52%	141.02%
	Min	-33.920	-0.360	-33.700	94.87%	21.58%
	Std Dev	12.339	0.110	12.296	1.48%	102.46%



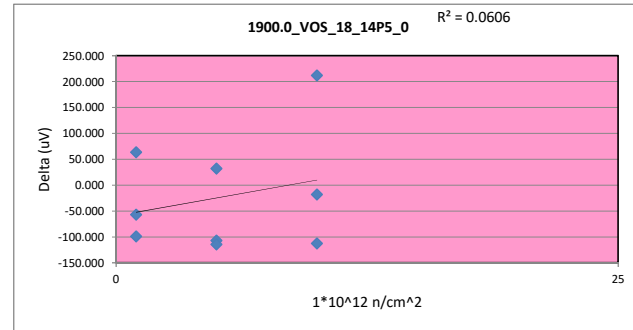
1703.0 IOS_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	6	pA	
Min Limit	-6	pA	
1*10 ¹² n/cm ²	1	5	10
LL	-6.000	-6.000	-6.000
Min	-3.160	-17.820	-33.920
Average	-2.957	-16.990	-31.290
Max	-2.730	-16.000	-29.080
UL	6.000	6.000	6.000



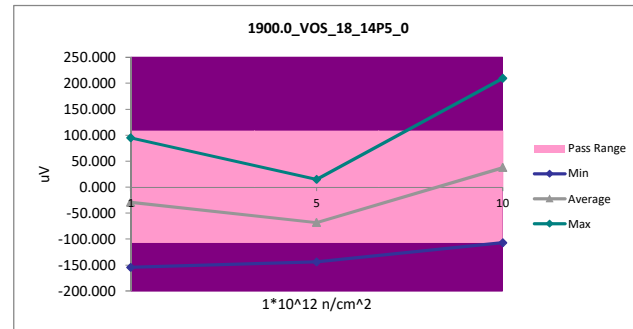
NDD Report OPA4H014-SEP

1900.0_VOS_18_14P5_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	108	108
Min Limit	-108	-108

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	95.020	31.600	63.420	66.74%	29.36%
1	2	-29.950	27.240	-57.190	190.95%	26.48%
1	3	-154.430	-55.150	-99.280	64.29%	45.96%
5	4	-75.880	31.390	-107.270	141.37%	49.66%
5	5	-144.060	-29.870	-114.190	79.27%	52.87%
5	6	14.850	-17.190	32.040	215.76%	14.83%
10	7	-107.140	5.520	-112.660	105.15%	52.16%
10	8	9.760	28.080	-18.320	-187.70%	8.48%
10	9	209.370	-2.300	211.670	101.10%	98.00%
	Max	209.370	31.600	211.670	215.76%	98.00%
	Average	-20.273	2.147	-22.420	86.32%	41.98%
	Min	-154.430	-55.150	-114.190	-187.70%	8.48%
	Std Dev	118.436	31.100	109.562	115.82%	26.68%



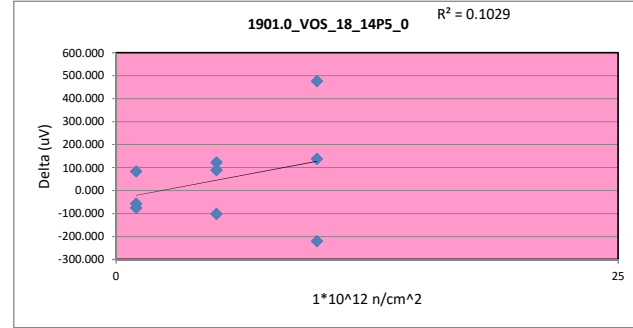
1900.0_VOS_18_14P5_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	108	uV	
Min Limit	-108	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-108.000	-108.000	-108.000
Min	-154.430	-144.060	-107.140
Average	-29.787	-68.363	37.330
Max	95.020	14.850	209.370
UL	108.000	108.000	108.000



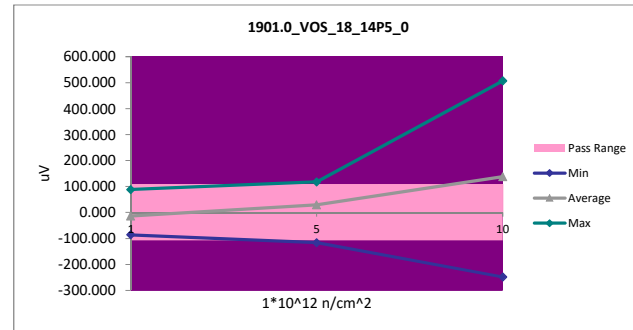
NDD Report OPA4H014-SEP

1901.0_VOS_18_14P5_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	108	108
Min Limit	-108	-108

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-44.190	12.330	-56.520	127.90%	26.17%
1	2	88.280	4.080	84.200	95.38%	38.98%
1	3	-86.100	-11.620	-74.480	86.50%	34.48%
5	4	117.810	-5.520	123.330	104.69%	57.10%
5	5	84.440	-4.510	88.950	105.34%	41.18%
5	6	-116.700	-14.900	-101.800	87.23%	47.13%
10	7	-248.220	-27.710	-220.510	88.84%	102.09%
10	8	506.770	30.500	476.270	93.98%	220.50%
10	9	155.010	16.420	138.590	89.41%	64.16%
	Max	506.770	30.500	476.270	127.90%	220.50%
	Average	50.789	-0.103	50.892	97.70%	70.20%
	Min	-248.220	-27.710	-220.510	86.50%	26.17%
	Std Dev	215.357	17.833	200.210	13.33%	60.60%



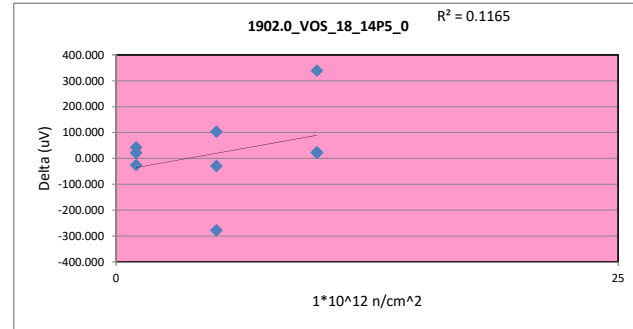
1901.0_VOS_18_14P5_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	108	uV	
Min Limit	-108	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-108.000	-108.000	-108.000
Min	-86.100	-116.700	-248.220
Average	-14.003	28.517	137.853
Max	88.280	117.810	506.770
UL	108.000	108.000	108.000



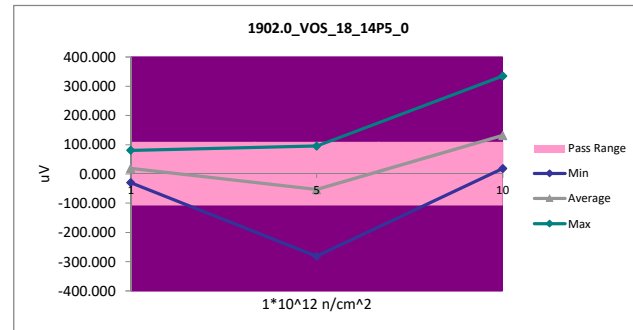
NDD Report OPA4H014-SEP

1902.0_VOS_18_14P5_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	108	108
Min Limit	-108	-108

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-29.200	-3.250	-25.950	88.87%	12.01%
1	2	5.090	-16.850	21.940	431.04%	10.16%
1	3	80.970	37.880	43.090	53.22%	19.95%
5	4	25.960	54.670	-28.710	-110.59%	13.29%
5	5	-281.900	-4.640	-277.260	98.35%	128.36%
5	6	95.590	-7.300	102.890	107.64%	47.63%
10	7	18.130	-5.850	23.980	132.27%	11.10%
10	8	41.730	19.940	21.790	52.22%	10.09%
10	9	335.020	-3.990	339.010	101.19%	156.95%
Max		335.020	54.670	339.010	431.04%	156.95%
Average		32.377	7.846	24.531	106.02%	45.51%
Min		-281.900	-16.850	-277.260	-110.59%	10.09%
Std Dev		158.740	24.204	158.846	141.12%	56.78%



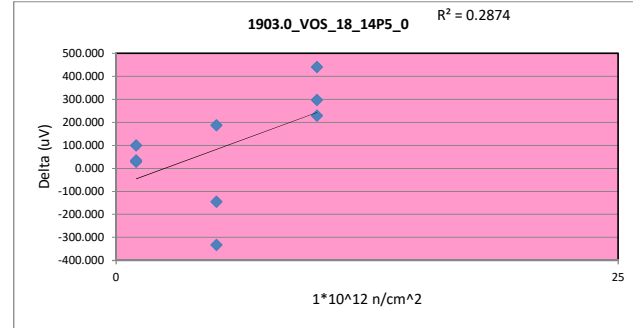
1902.0_VOS_18_14P5_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	108	uV	
Min Limit	-108	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-108.000	-108.000	-108.000
Min	-29.200	-281.900	18.130
Average	18.953	-53.450	131.627
Max	80.970	95.590	335.020
UL	108.000	108.000	108.000



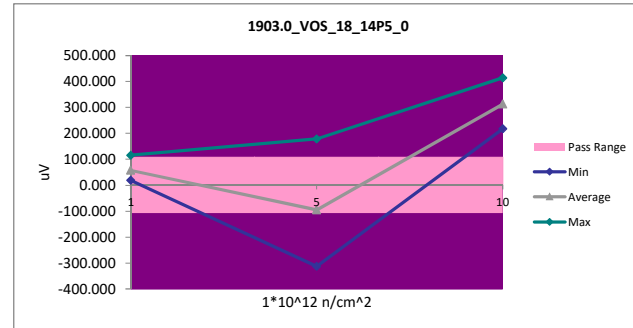
NDD Report OPA4H014-SEP

1903.0 VOS 18 14P5 0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	108	108
Min Limit	-108	-108

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	19.180	-8.940	28.120	146.61%	13.02%
1	2	115.450	16.260	99.190	85.92%	45.92%
1	3	38.030	3.630	34.400	90.45%	15.93%
5	4	-312.820	20.380	-333.200	106.51%	154.26%
5	5	178.660	-8.370	187.030	104.68%	86.59%
5	6	-151.800	-6.700	-145.100	95.59%	67.18%
10	7	305.930	8.310	297.620	97.28%	137.79%
10	8	414.260	-26.450	440.710	106.38%	204.03%
10	9	217.670	-11.220	228.890	105.15%	105.97%
	Max	414.260	20.380	440.710	146.61%	204.03%
	Average	91.618	-1.456	93.073	104.29%	92.30%
	Min	-312.820	-26.450	-333.200	85.92%	13.02%
	Std Dev	225.001	14.846	233.479	17.52%	64.72%



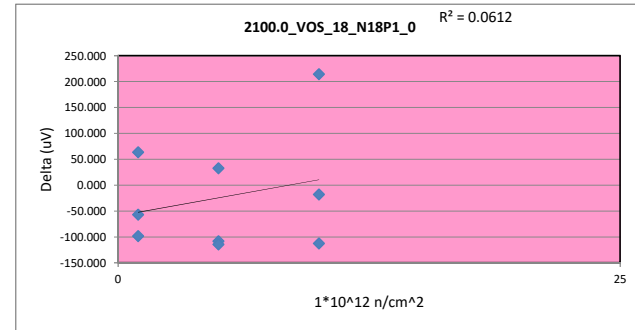
1903.0 VOS 18 14P5 0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	108	uV	
Min Limit	-108	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-108.000	-108.000	-108.000
Min	19.180	-312.820	217.670
Average	57.553	-95.320	312.620
Max	115.450	178.660	414.260
UL	108.000	108.000	108.000



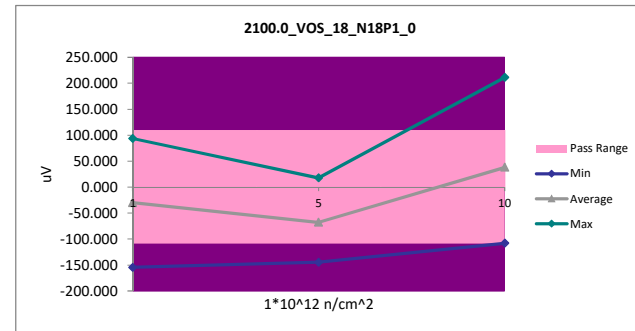
NDD Report OPA4H014-SEP

2100.0 VOS 18 N18P1_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	109	109
Min Limit	-109	-109

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	93.480	29.990	63.490	67.92%	29.12%
1	2	-29.860	27.220	-57.080	191.16%	26.18%
1	3	-154.580	-56.010	-98.570	63.77%	45.22%
5	4	-76.670	31.510	-108.180	141.10%	49.62%
5	5	-144.610	-30.200	-114.410	79.12%	52.48%
5	6	17.760	-14.680	32.440	182.66%	14.88%
10	7	-107.810	4.980	-112.790	104.62%	51.74%
10	8	10.460	28.300	-17.840	-170.55%	8.18%
10	9	211.310	-2.900	214.210	101.37%	98.26%
	Max	211.310	31.510	214.210	191.16%	98.26%
	Average	-20.058	2.023	-22.081	84.57%	41.74%
	Min	-154.580	-56.010	-114.410	-170.55%	8.18%
	Std Dev	119.056	31.014	110.333	106.47%	26.77%



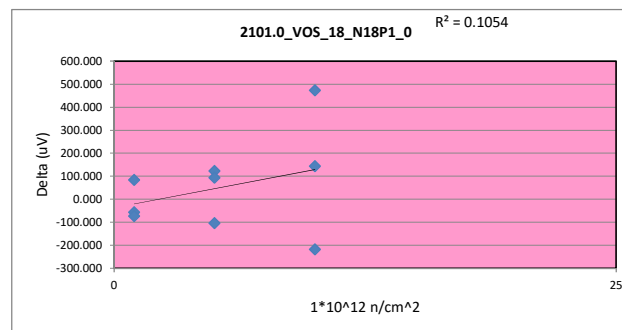
2100.0 VOS 18 N18P1_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	109	uV	
Min Limit	-109	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-109.000	-109.000	-109.000
Min	-154.580	-144.610	-107.810
Average	-30.320	-67.840	37.987
Max	93.480	17.760	211.310
UL	109.000	109.000	109.000



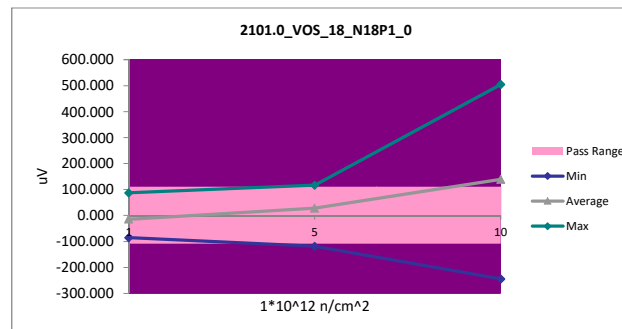
NDD Report OPA4H014-SEP

2101.0_VOS_18_N18P1_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	109	109
Min Limit	-109	-109

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-45.410	10.640	-56.050	123.43%	25.71%
1	2	86.990	3.250	83.740	96.26%	38.41%
1	3	-85.150	-11.250	-73.900	86.79%	33.90%
5	4	116.920	-5.680	122.600	104.86%	56.24%
5	5	86.210	-6.780	92.990	107.86%	42.66%
5	6	-118.340	-13.940	-104.400	88.22%	47.89%
10	7	-244.010	-25.730	-218.280	89.46%	100.13%
10	8	504.060	31.170	472.890	93.82%	216.92%
10	9	157.120	13.180	143.940	91.61%	66.03%
Max		504.060	31.170	472.890	123.43%	216.92%
Average		50.932	-0.571	51.503	98.03%	69.77%
Min		-244.010	-25.730	-218.280	86.79%	25.71%
Std Dev		214.168	17.056	199.471	11.97%	59.37%



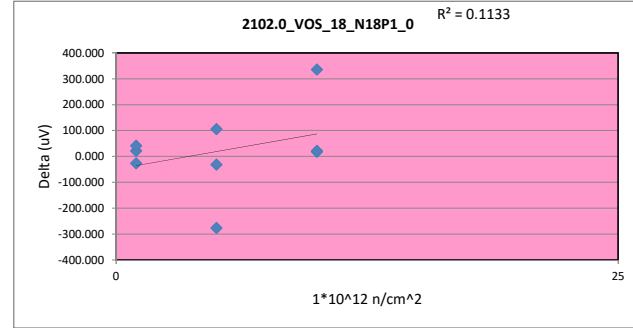
2101.0_VOS_18_N18P1_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	109	uV	
Min Limit	-109	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-109.000	-109.000	-109.000
Min	-85.150	-118.340	-244.010
Average	-14.523	28.263	139.057
Max	86.990	116.920	504.060
UL	109.000	109.000	109.000



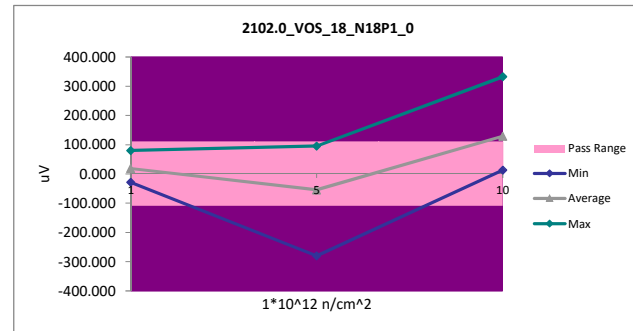
NDD Report OPA4H014-SEP

2102.0_VOS_18_N18P1_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	109	109
Min Limit	-109	-109

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-28.810	-1.930	-26.880	93.30%	12.33%
1	2	4.820	-16.450	21.270	441.29%	9.76%
1	3	79.970	38.440	41.530	51.93%	19.05%
5	4	22.060	53.170	-31.110	-141.02%	14.27%
5	5	-280.510	-4.420	-276.090	98.42%	126.65%
5	6	95.670	-9.270	104.940	109.69%	48.14%
10	7	13.120	-4.840	17.960	136.89%	8.24%
10	8	41.570	20.370	21.200	51.00%	9.72%
10	9	332.550	-3.450	336.000	101.04%	154.13%
	Max	332.550	53.170	336.000	441.29%	154.13%
	Average	31.160	7.958	23.202	104.73%	44.70%
	Min	-280.510	-16.450	-276.090	-141.02%	8.24%
	Std Dev	157.847	23.887	158.086	150.24%	56.02%



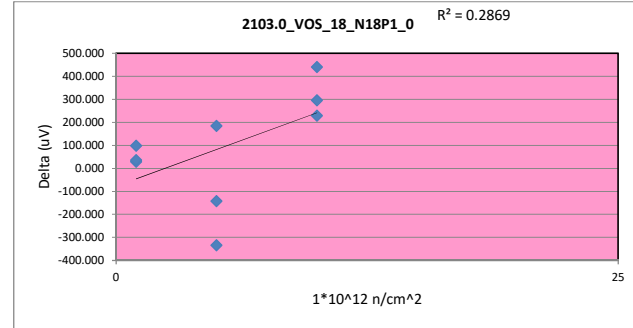
2102.0_VOS_18_N18P1_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	109	uV	
Min Limit	-109	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-109.000	-109.000	-109.000
Min	-28.810	-280.510	13.120
Average	18.660	-54.260	129.080
Max	79.970	95.670	332.550
UL	109.000	109.000	109.000



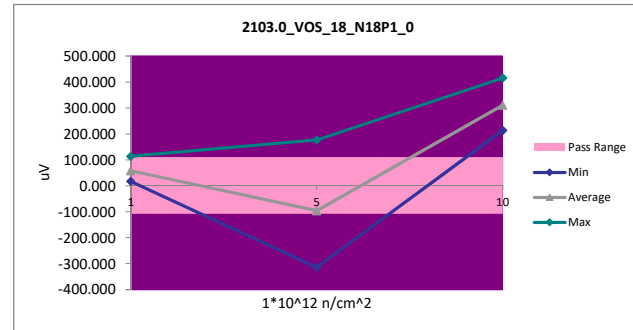
NDD Report OPA4H014-SEP

2103.0 VOS 18 N18P1_0		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	109	109
Min Limit	-109	-109

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	17.630	-10.550	28.180	159.84%	12.93%
1	2	113.840	15.590	98.250	86.31%	45.07%
1	3	41.110	5.800	35.310	85.89%	16.20%
5	4	-314.060	19.920	-333.980	106.34%	153.20%
5	5	176.640	-7.560	184.200	104.28%	84.50%
5	6	-150.180	-7.640	-142.540	94.91%	65.39%
10	7	304.390	9.160	295.230	96.99%	135.43%
10	8	415.890	-23.880	439.770	105.74%	201.73%
10	9	213.470	-15.300	228.770	107.17%	104.94%
	Max	415.890	19.920	439.770	159.84%	201.73%
	Average	90.970	-1.607	92.577	105.27%	91.04%
	Min	-314.060	-23.880	-333.980	85.89%	12.93%
	Std Dev	224.738	14.855	232.713	22.07%	64.03%



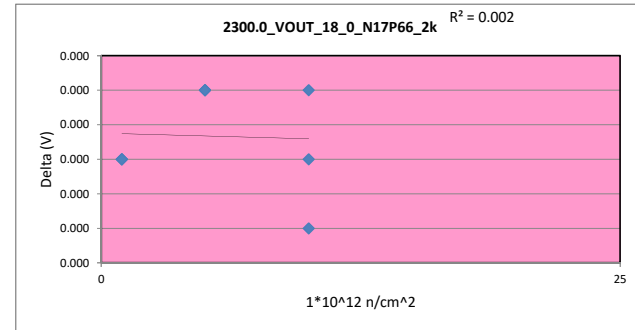
2103.0 VOS 18 N18P1_0			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	109	uV	
Min Limit	-109	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-109.000	-109.000	-109.000
Min	17.630	-314.060	213.470
Average	57.527	-95.867	311.250
Max	113.840	176.640	415.890
UL	109.000	109.000	109.000



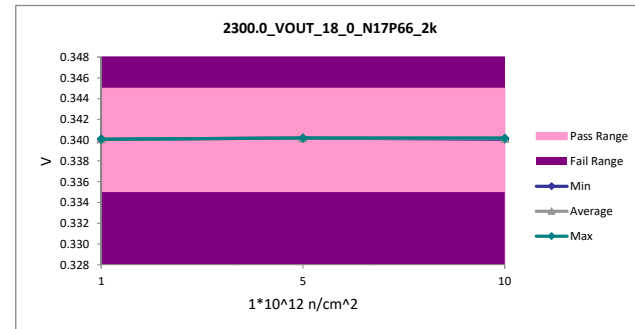
NDD Report OPA4H014-SEP

2300.0 VOUT_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	0.00%	0.00%
1	2	0.340	0.340	0.000	0.00%	0.00%
1	3	0.340	0.340	0.000	0.00%	0.00%
5	4	0.340	0.340	0.000	0.03%	1.00%
5	5	0.340	0.340	0.000	0.03%	1.00%
5	6	0.340	0.340	0.000	0.03%	1.00%
10	7	0.340	0.340	0.000	0.03%	1.00%
10	8	0.340	0.340	0.000	-0.03%	1.00%
10	9	0.340	0.340	0.000	0.00%	0.00%
Max		0.340	0.340	0.000	0.03%	1.00%
Average		0.340	0.340	0.000	0.01%	0.56%
Min		0.340	0.340	0.000	-0.03%	0.00%
Std Dev		0.000	0.000	0.000	0.02%	0.53%



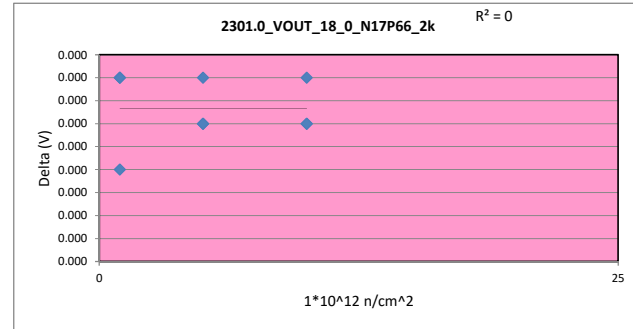
2300.0 VOUT_18_0_N17P66			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345	V	
Min Limit	0.335	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



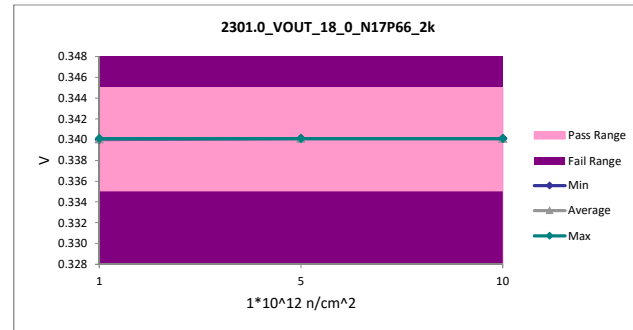
NDD Report OPA4H014-SEP

2301.0 VOUT_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	0.12%	4.00%
1	2	0.340	0.340	0.000	0.06%	2.00%
1	3	0.340	0.340	0.000	0.12%	4.00%
5	4	0.340	0.340	0.000	0.12%	4.00%
5	5	0.340	0.340	0.000	0.09%	3.00%
5	6	0.340	0.340	0.000	0.09%	3.00%
10	7	0.340	0.340	0.000	0.12%	4.00%
10	8	0.340	0.340	0.000	0.09%	3.00%
10	9	0.340	0.340	0.000	0.09%	3.00%
Max		0.340	0.340	0.000	0.12%	4.00%
Average		0.340	0.340	0.000	0.10%	3.33%
Min		0.340	0.340	0.000	0.06%	2.00%
Std Dev		0.000	0.000	0.000	0.02%	0.71%



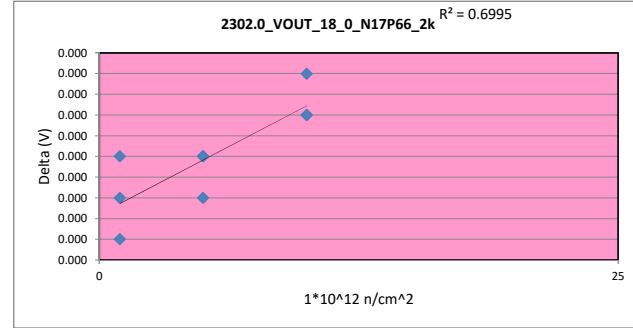
2301.0 VOUT_18_0_N17P66			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345	V	
Min Limit	0.335	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



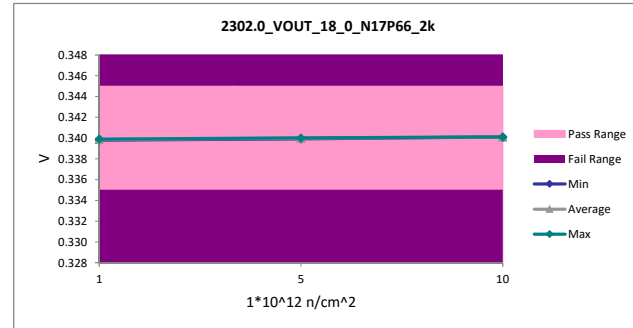
NDD Report OPA4H014-SEP

2302.0 VOUT_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	-0.06%	2.00%
1	2	0.340	0.340	0.000	-0.09%	3.00%
1	3	0.340	0.340	0.000	-0.03%	1.00%
5	4	0.340	0.340	0.000	-0.03%	1.00%
5	5	0.340	0.340	0.000	-0.06%	2.00%
5	6	0.340	0.340	0.000	-0.03%	1.00%
10	7	0.340	0.340	0.000	0.03%	1.00%
10	8	0.340	0.340	0.000	0.00%	0.00%
10	9	0.340	0.340	0.000	0.00%	0.00%
Max		0.340	0.340	0.000	0.03%	3.00%
Average		0.340	0.340	0.000	-0.03%	1.22%
Min		0.340	0.340	0.000	-0.09%	0.00%
Std Dev		0.000	0.000	0.000	0.04%	0.97%



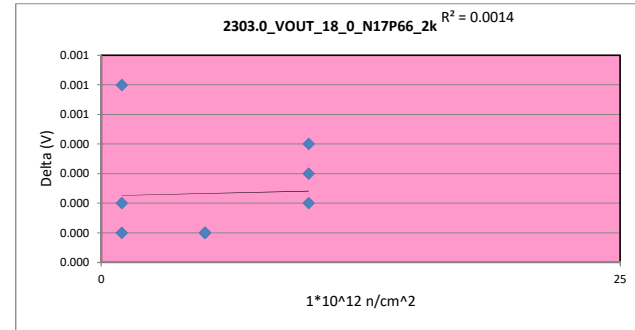
2302.0 VOUT_18_0_N17P66			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345	V	
Min Limit	0.335	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



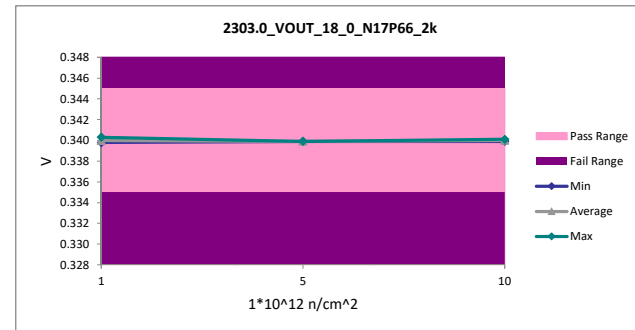
NDD Report OPA4H014-SEP

2303.0_VOUT_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.345	0.345
Min Limit	0.335	0.335

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.340	0.340	0.000	0.03%	1.00%
1	2	0.340	0.340	0.001	0.18%	6.00%
1	3	0.340	0.340	0.000	0.06%	2.00%
5	4	0.340	0.340	0.000	0.03%	1.00%
5	5	0.340	0.340	0.000	0.03%	1.00%
5	6	0.340	0.340	0.000	0.03%	1.00%
10	7	0.340	0.340	0.000	0.06%	2.00%
10	8	0.340	0.340	0.000	0.12%	4.00%
10	9	0.340	0.340	0.000	0.09%	3.00%
Max		0.340	0.340	0.001	0.18%	6.00%
Average		0.340	0.340	0.000	0.07%	2.33%
Min		0.340	0.340	0.000	0.03%	1.00%
Std Dev		0.000	0.000	0.000	0.05%	1.73%



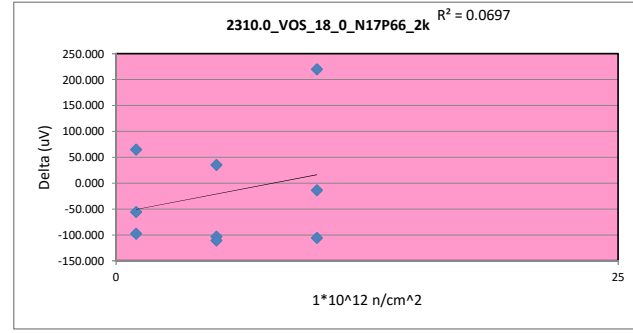
2303.0_VOUT_18_0_N17P66			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.345	V	
Min Limit	0.335	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.335	0.335	0.335
Min	0.340	0.340	0.340
Average	0.340	0.340	0.340
Max	0.340	0.340	0.340
UL	0.345	0.345	0.345



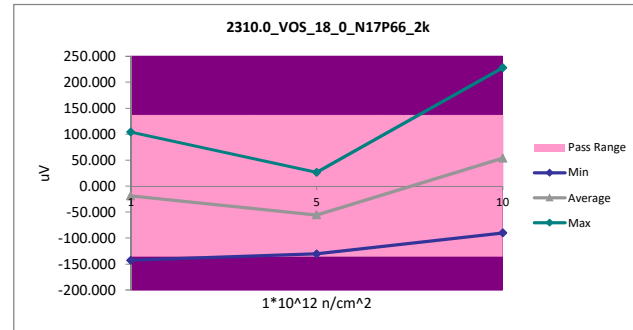
NDD Report
OPA4H014-SEP

2310.0 VOS_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	104.110	39.160	64.950	62.39%	23.88%
1	2	-17.790	38.160	-55.950	314.50%	20.57%
1	3	-142.780	-45.320	-97.460	68.26%	35.83%
5	4	-62.790	40.840	-103.630	165.04%	38.10%
5	5	-130.460	-19.620	-110.840	84.96%	40.75%
5	6	26.510	-8.320	34.830	131.38%	12.81%
10	7	-90.010	15.700	-105.710	117.44%	38.86%
10	8	23.850	37.730	-13.880	-58.20%	5.10%
10	9	227.990	8.180	219.810	96.41%	80.81%
Max		227.990	40.840	219.810	314.50%	80.81%
Average		-6.819	11.834	-18.653	109.13%	32.97%
Min		-142.780	-45.320	-110.840	-58.20%	5.10%
Std Dev		119.079	30.907	110.475	99.04%	21.90%



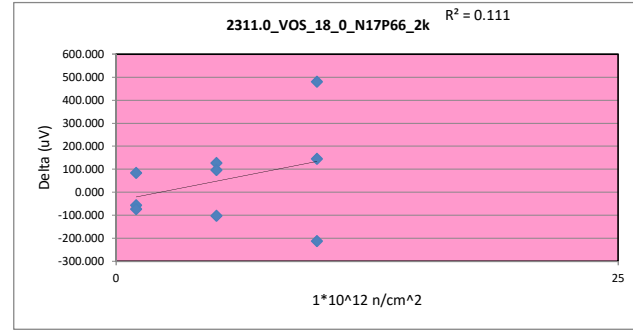
2310.0 VOS_18_0_N17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	-142.780	-130.460	-90.010
Average	-18.820	-55.580	53.943
Max	104.110	26.510	227.990
UL	136.000	136.000	136.000



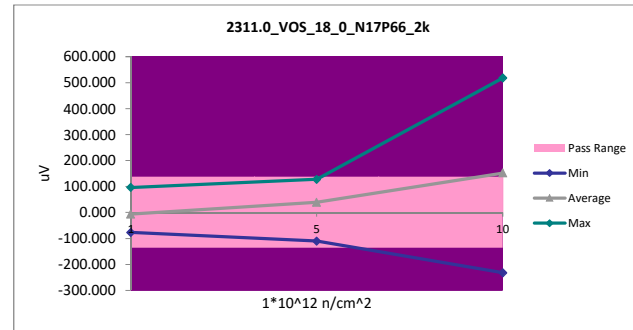
NDD Report OPA4H014-SEP

2311.0 VOS_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-39.030	17.840	-56.870	145.71%	20.91%
1	2	96.150	12.290	83.860	87.22%	30.83%
1	3	-76.810	-3.040	-73.770	96.04%	27.12%
5	4	128.120	1.450	126.670	98.87%	46.57%
5	5	98.360	2.680	95.680	97.28%	35.18%
5	6	-110.770	-8.610	-102.160	92.23%	37.56%
10	7	-231.960	-19.150	-212.810	91.74%	78.24%
10	8	518.540	38.480	480.060	92.58%	176.49%
10	9	168.450	23.070	145.380	86.30%	53.45%
Max		518.540	38.480	480.060	145.71%	176.49%
Average		61.228	7.223	54.004	98.66%	56.26%
Min		-231.960	-19.150	-212.810	86.30%	20.91%
Std Dev		215.741	17.579	200.617	18.14%	48.19%



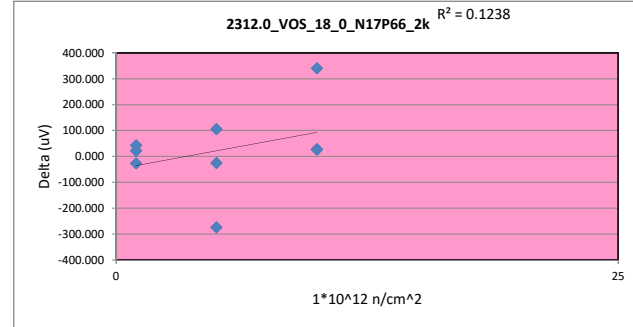
2311.0 VOS_18_0_N17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	-76.810	-110.770	-231.960
Average	-6.563	38.570	151.677
Max	96.150	128.120	518.540
UL	136.000	136.000	136.000



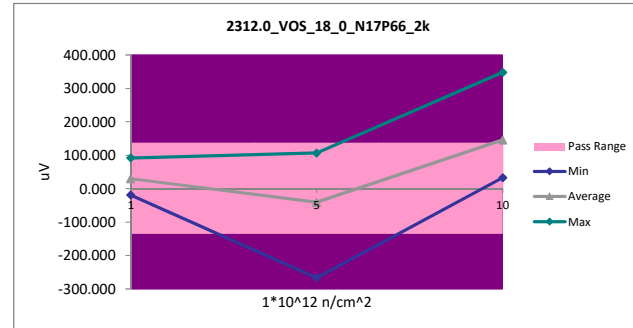
NDD Report OPA4H014-SEP

2312.0 VOS_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-19.330	7.720	-27.050	139.94%	9.94%
1	2	17.810	-4.260	22.070	123.92%	8.11%
1	3	91.950	48.940	43.010	46.78%	15.81%
5	4	38.680	64.000	-25.320	-65.46%	9.31%
5	5	-267.010	6.330	-273.340	102.37%	100.49%
5	6	106.350	0.770	105.580	99.28%	38.82%
10	7	33.130	4.880	28.250	85.27%	10.39%
10	8	56.990	31.000	25.990	45.60%	9.56%
10	9	348.520	8.440	340.080	97.58%	125.03%
Max		348.520	64.000	340.080	139.94%	125.03%
Average		45.232	18.647	26.586	75.03%	36.38%
Min		-267.010	-4.260	-273.340	-65.46%	8.11%
Std Dev		158.368	23.813	158.248	61.19%	44.75%



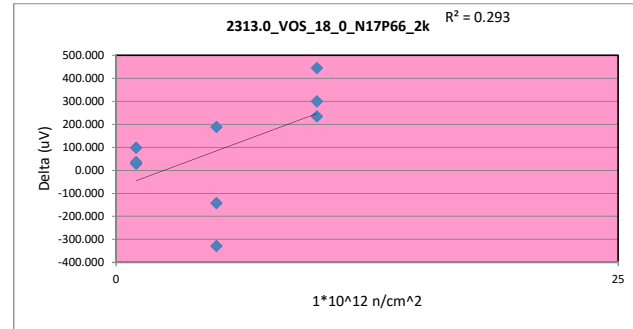
2312.0 VOS_18_0_N17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	-19.330	-267.010	33.130
Average	30.143	-40.660	146.213
Max	91.950	106.350	348.520
UL	136.000	136.000	136.000



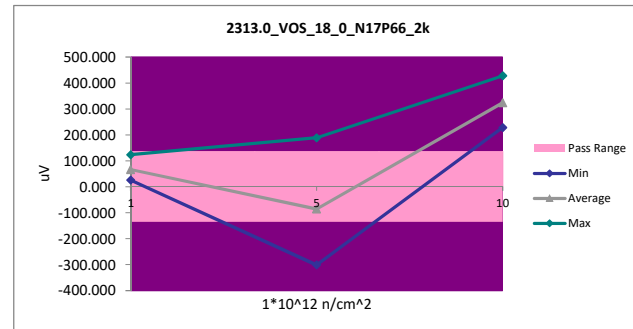
NDD Report OPA4H014-SEP

2313.0 VOS_18_0_N17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	25.740	-3.520	29.260	113.68%	10.76%
1	2	123.490	24.620	98.870	80.06%	36.35%
1	3	49.020	12.770	36.250	73.95%	13.33%
5	4	-301.630	27.550	-329.180	109.13%	121.02%
5	5	188.810	0.570	188.240	99.70%	69.21%
5	6	-143.900	-1.400	-142.500	99.03%	52.39%
10	7	317.090	17.290	299.800	94.55%	110.22%
10	8	428.060	-16.680	444.740	103.90%	163.51%
10	9	228.770	-5.580	234.350	102.44%	86.16%
	Max	428.060	27.550	444.740	113.68%	163.51%
	Average	101.717	6.180	95.537	97.38%	73.66%
	Min	-301.630	-16.680	-329.180	73.95%	10.76%
	Std Dev	226.012	15.031	233.585	12.93%	51.56%



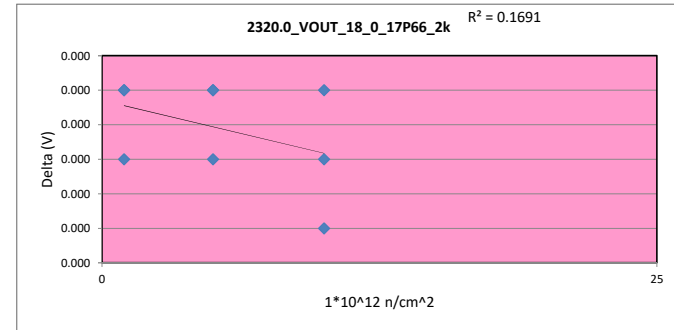
2313.0 VOS_18_0_N17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	25.740	-301.630	228.770
Average	66.083	-85.573	324.640
Max	123.490	188.810	428.060
UL	136.000	136.000	136.000



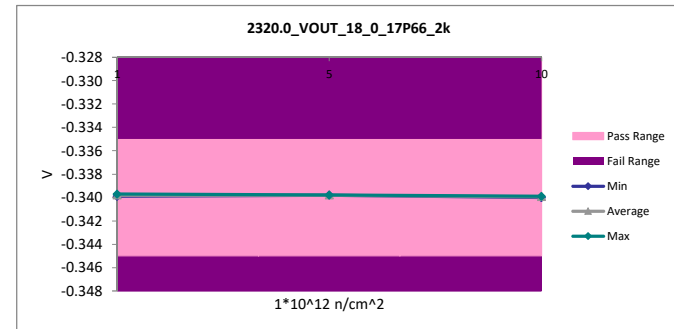
NDD Report OPA4H014-SEP

2320.0_VOUT_18_0_17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	-0.03%	1.00%
1	2	-0.340	-0.340	0.000	0.00%	0.00%
1	3	-0.340	-0.340	0.000	-0.03%	1.00%
5	4	-0.340	-0.340	0.000	0.00%	0.00%
5	5	-0.340	-0.340	0.000	-0.03%	1.00%
5	6	-0.340	-0.340	0.000	-0.03%	1.00%
10	7	-0.340	-0.340	0.000	0.03%	1.00%
10	8	-0.340	-0.340	0.000	-0.03%	1.00%
10	9	-0.340	-0.340	0.000	0.00%	0.00%
Max		-0.340	-0.340	0.000	0.03%	1.00%
Average		-0.340	-0.340	0.000	-0.01%	0.67%
Min		-0.340	-0.340	0.000	-0.03%	0.00%
Std Dev		0.000	0.000	0.000	0.02%	0.50%



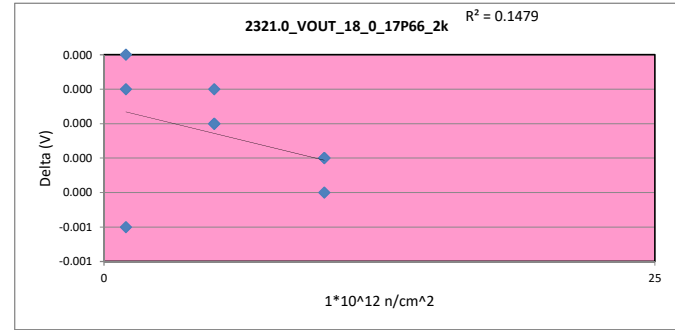
2320.0_VOUT_18_0_17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



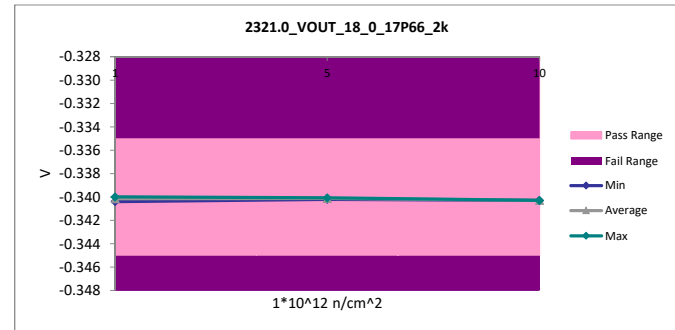
NDD Report OPA4H014-SEP

2321.0_VOUT_18_0_17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	0.03%	1.00%
1	2	-0.340	-0.340	0.000	0.00%	0.00%
1	3	-0.340	-0.340	-0.001	0.15%	5.00%
5	4	-0.340	-0.340	0.000	0.06%	2.00%
5	5	-0.340	-0.340	0.000	0.03%	1.00%
5	6	-0.340	-0.340	0.000	0.06%	2.00%
10	7	-0.340	-0.340	0.000	0.12%	4.00%
10	8	-0.340	-0.340	0.000	0.09%	3.00%
10	9	-0.340	-0.340	0.000	0.09%	3.00%
Max		-0.340	-0.340	0.000	0.15%	5.00%
Average		-0.340	-0.340	0.000	0.07%	2.33%
Min		-0.340	-0.340	-0.001	0.00%	0.00%
Std Dev		0.000	0.000	0.000	0.05%	1.58%



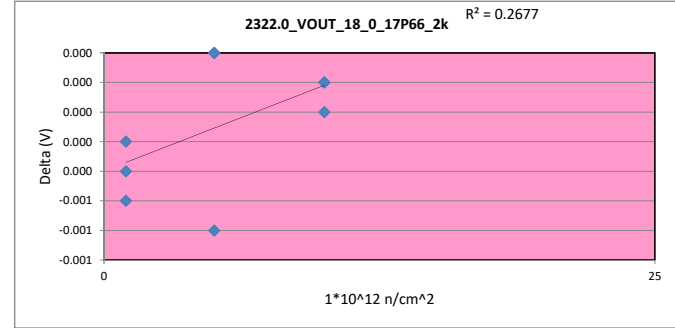
2321.0_VOUT_18_0_17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



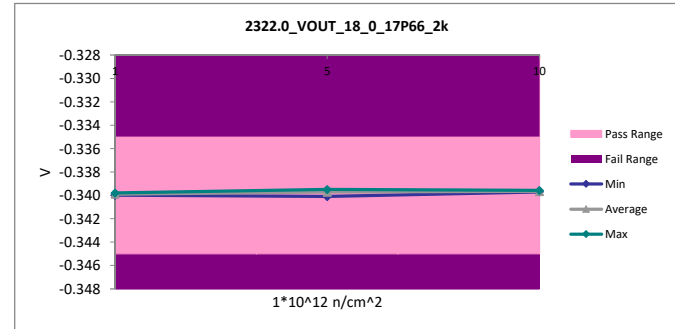
NDD Report
OPA4H014-SEP

2322.0_VOUT_18_0_17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	0.15%	5.00%
1	2	-0.340	-0.340	0.000	0.12%	4.00%
1	3	-0.340	-0.340	0.000	0.09%	3.00%
5	4	-0.340	-0.340	-0.001	0.18%	6.00%
5	5	-0.340	-0.340	0.000	0.00%	0.00%
5	6	-0.340	-0.340	0.000	0.00%	0.00%
10	7	-0.340	-0.340	0.000	0.06%	2.00%
10	8	-0.340	-0.340	0.000	0.03%	1.00%
10	9	-0.340	-0.340	0.000	0.03%	1.00%
Max		-0.340	-0.340	0.000	0.18%	6.00%
Average		-0.340	-0.340	0.000	0.07%	2.44%
Min		-0.340	-0.340	-0.001	0.00%	0.00%
Std Dev		0.000	0.000	0.000	0.06%	2.19%



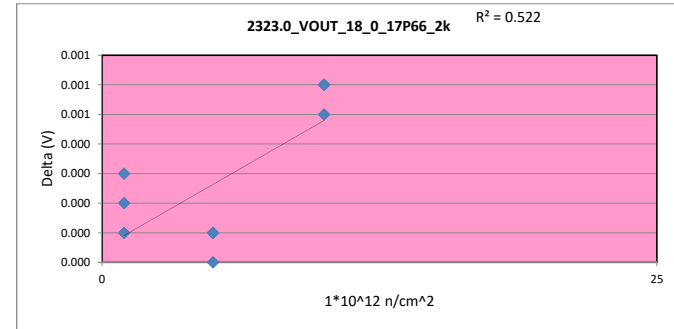
2322.0_VOUT_18_0_17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



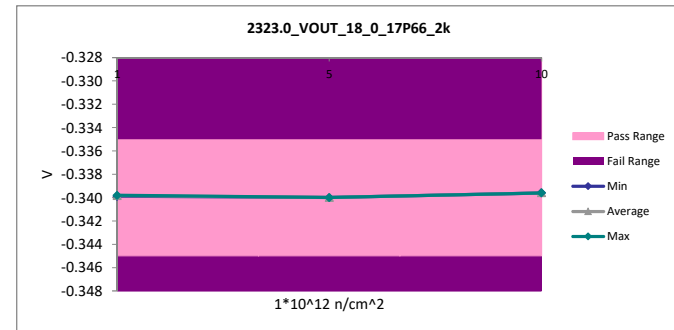
NDD Report OPA4H014-SEP

2323.0_VOUT_18_0_17P66_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.335	-0.335
Min Limit	-0.345	-0.345

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.340	-0.340	0.000	-0.03%	1.00%
1	2	-0.340	-0.340	0.000	-0.09%	3.00%
1	3	-0.340	-0.340	0.000	-0.06%	2.00%
5	4	-0.340	-0.340	0.000	-0.03%	1.00%
5	5	-0.340	-0.340	0.000	0.00%	0.00%
5	6	-0.340	-0.340	0.000	-0.03%	1.00%
10	7	-0.340	-0.340	0.001	-0.18%	6.00%
10	8	-0.340	-0.340	0.001	-0.18%	6.00%
10	9	-0.340	-0.340	0.000	-0.15%	5.00%
Max		-0.340	-0.340	0.001	0.00%	6.00%
Average		-0.340	-0.340	0.000	-0.08%	2.78%
Min		-0.340	-0.340	0.000	-0.18%	0.00%
Std Dev		0.000	0.000	0.000	0.07%	2.33%



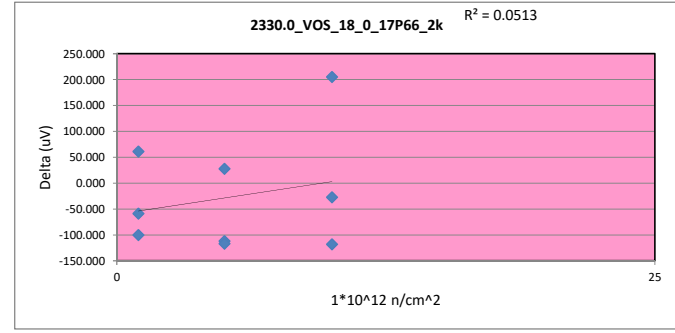
2323.0_VOUT_18_0_17P66_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.335	V	
Min Limit	-0.345	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.345	-0.345	-0.345
Min	-0.340	-0.340	-0.340
Average	-0.340	-0.340	-0.340
Max	-0.340	-0.340	-0.340
UL	-0.335	-0.335	-0.335



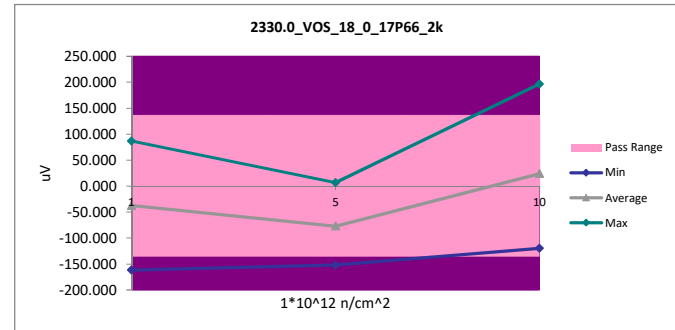
NDD Report OPA4H014-SEP

2330.0 VOS 18 0 17P66 2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	87.130	26.010	61.120	70.15%	22.47%
1	2	-37.700	21.360	-59.060	156.66%	21.71%
1	3	-161.560	-61.370	-100.190	62.01%	36.83%
5	4	-86.190	25.930	-112.120	130.08%	41.22%
5	5	-152.320	-35.280	-117.040	76.84%	43.03%
5	6	6.780	-20.690	27.470	405.16%	10.10%
10	7	-119.590	-1.400	-118.190	98.83%	43.45%
10	8	-5.490	22.120	-27.610	502.91%	10.15%
10	9	196.460	-8.790	205.250	104.47%	75.46%
	Max	196.460	26.010	205.250	502.91%	75.46%
	Average	-30.276	-3.568	-26.708	178.57%	33.83%
	Min	-161.560	-61.370	-118.190	62.01%	10.10%
	Std Dev	117.510	31.020	108.814	160.82%	20.54%



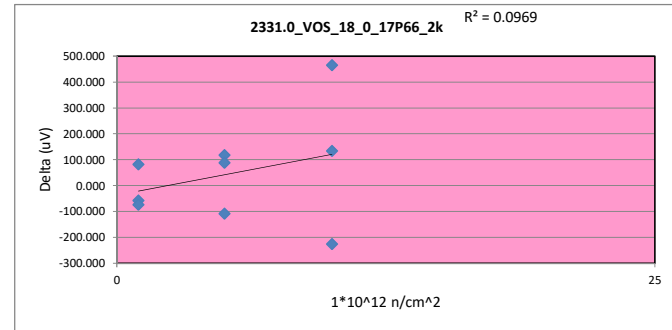
2330.0 VOS 18 0 17P66 2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	-161.560	-152.320	-119.590
Average	-37.377	-77.243	23.793
Max	87.130	6.780	196.460
UL	136.000	136.000	136.000



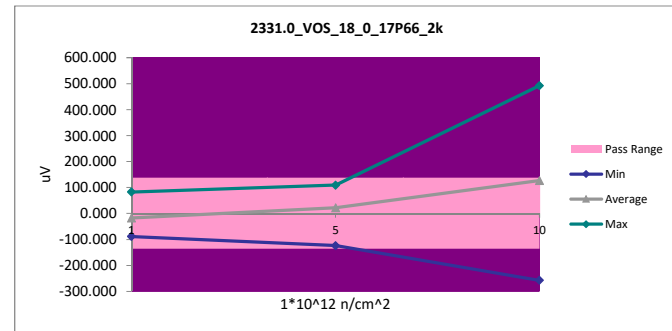
NDD Report OPA4H014-SEP

2331.0 VOS 18 0 17P66 2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-47.410	9.940	-57.350	120.97%	21.08%
1	2	82.570	0.090	82.480	99.89%	30.32%
1	3	-88.300	-13.940	-74.360	84.21%	27.34%
5	4	109.350	-8.820	118.170	108.07%	43.44%
5	5	79.470	-8.450	87.920	110.63%	32.32%
5	6	-123.650	-15.740	-107.910	87.27%	39.67%
10	7	-257.240	-31.890	-225.350	87.60%	82.85%
10	8	492.730	27.320	465.410	94.46%	171.11%
10	9	144.710	10.400	134.310	92.81%	49.38%
Max		492.730	27.320	465.410	120.97%	171.11%
Average		43.581	-3.454	47.036	98.43%	55.28%
Min		-257.240	-31.890	-225.350	84.21%	21.08%
Std Dev		213.081	17.515	198.267	12.46%	47.03%



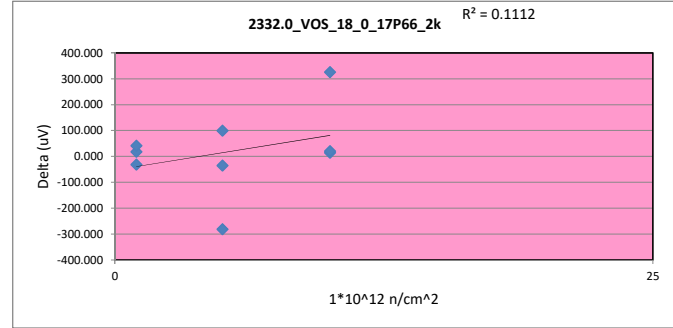
2331.0 VOS 18 0 17P66 2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	-88.300	-123.650	-257.240
Average	-17.713	21.723	126.733
Max	82.570	109.350	492.730
UL	136.000	136.000	136.000



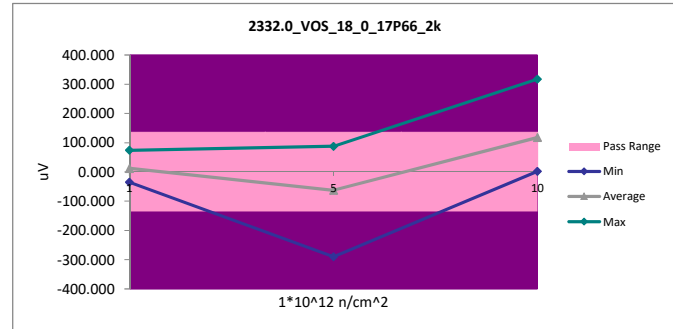
NDD Report OPA4H014-SEP

2332.0 VOS 18 0 17P66 2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-35.580	-4.450	-31.130	87.49%	11.44%
1	2	-2.790	-20.800	18.010	-645.52%	6.62%
1	3	74.390	33.530	40.860	54.93%	15.02%
5	4	15.090	49.880	-34.790	-230.55%	12.79%
5	5	-290.530	-9.770	-280.760	96.64%	103.22%
5	6	87.870	-11.480	99.350	113.06%	36.53%
10	7	2.410	-12.030	14.440	599.17%	5.31%
10	8	33.750	13.980	19.770	58.58%	7.27%
10	9	317.420	-8.370	325.790	102.64%	119.78%
	Max	317.420	49.880	325.790	599.17%	119.78%
	Average	22.448	3.388	19.060	26.27%	35.33%
	Min	-290.530	-20.800	-280.760	-645.52%	5.31%
	Std Dev	156.736	23.976	156.660	329.66%	44.36%



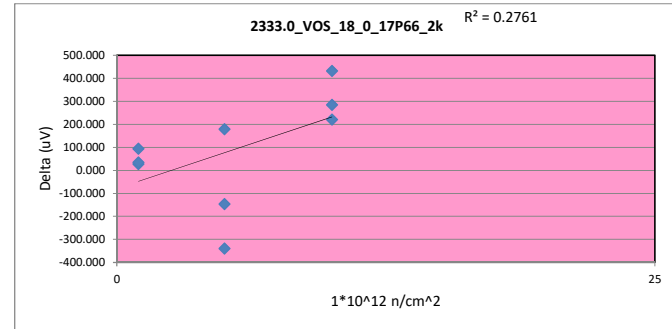
2332.0 VOS 18 0 17P66 2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	-35.580	-290.530	2.410
Average	12.007	-62.523	117.860
Max	74.390	87.870	317.420
UL	136.000	136.000	136.000



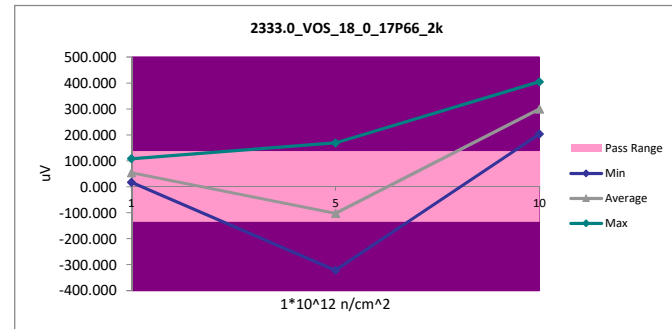
NDD Report OPA4H014-SEP

2333.0 VOS 18 0 17P66 2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	136	136
Min Limit	-136	-136

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	17.060	-10.790	27.850	163.25%	10.24%
1	2	108.210	13.570	94.640	87.46%	34.79%
1	3	38.030	3.710	34.320	90.24%	12.62%
5	4	-321.820	18.060	-339.880	105.61%	124.96%
5	5	169.220	-9.390	178.610	105.55%	65.67%
5	6	-154.760	-7.630	-147.130	95.07%	54.09%
10	7	291.440	6.860	284.580	97.65%	104.63%
10	8	405.200	-26.840	432.040	106.62%	158.84%
10	9	203.290	-16.860	220.150	108.29%	80.94%
Max		405.200	18.060	432.040	163.25%	158.84%
Average		83.986	-3.257	87.242	106.64%	71.86%
Min		-321.820	-26.840	-339.880	87.46%	10.24%
Std Dev		222.646	14.761	231.189	22.53%	50.71%



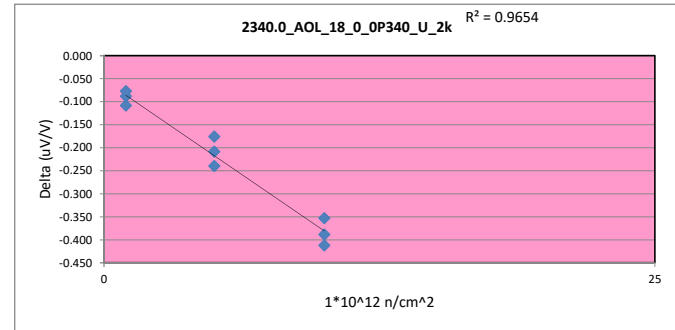
2333.0 VOS 18 0 17P66 2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	136	uV	
Min Limit	-136	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-136.000	-136.000	-136.000
Min	17.060	-321.820	203.290
Average	54.433	-102.453	299.977
Max	108.210	169.220	405.200
UL	136.000	136.000	136.000



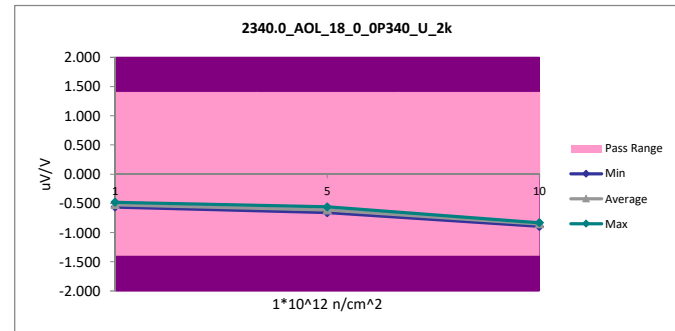
NDD Report OPA4H014-SEP

2340.0 AOL 18 0 0P340 U 2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.4	1.4
Min Limit	-1.4	-1.4

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.481	-0.372	-0.108	22.51%	3.86%
1	2	-0.563	-0.475	-0.088	15.62%	3.14%
1	3	-0.532	-0.454	-0.077	14.52%	2.76%
5	4	-0.662	-0.422	-0.240	36.22%	8.57%
5	5	-0.619	-0.444	-0.176	28.38%	6.27%
5	6	-0.559	-0.350	-0.208	37.33%	7.45%
10	7	-0.837	-0.484	-0.353	42.19%	12.62%
10	8	-0.831	-0.442	-0.389	46.78%	13.88%
10	9	-0.893	-0.481	-0.412	46.17%	14.72%
Max		-0.481	-0.350	-0.077	46.78%	14.72%
Average		-0.664	-0.436	-0.228	32.19%	8.14%
Min		-0.893	-0.484	-0.412	14.52%	2.76%
Std Dev		0.152	0.047	0.130	12.48%	4.65%



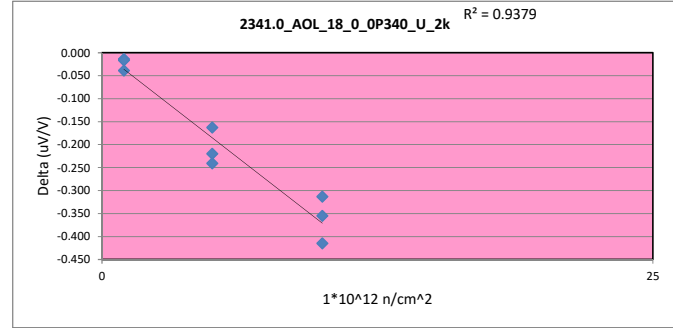
2340.0 AOL 18 0 0P340 U 2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4	uV/V	
Min Limit	-1.4	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.400	-1.400	-1.400
Min	-0.563	-0.662	-0.893
Average	-0.525	-0.613	-0.854
Max	-0.481	-0.559	-0.831
UL	1.400	1.400	1.400



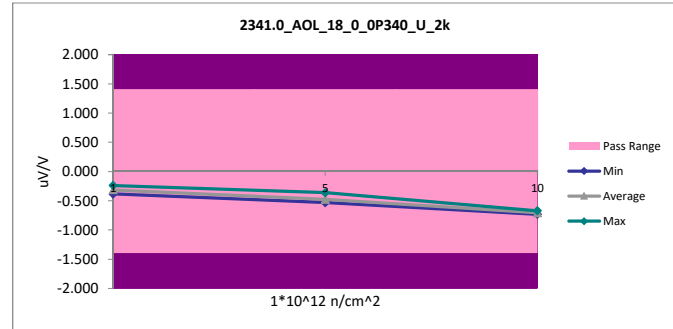
NDD Report
OPA4H014-SEP

2341.0_AOL_18_0_OP340_U_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.4	1.4
Min Limit	-1.4	-1.4

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.237	-0.224	-0.014	5.73%	0.49%
1	2	-0.384	-0.345	-0.039	10.12%	1.39%
1	3	-0.325	-0.309	-0.016	5.07%	0.59%
5	4	-0.531	-0.291	-0.241	45.29%	8.60%
5	5	-0.535	-0.315	-0.220	41.08%	7.85%
5	6	-0.365	-0.202	-0.163	44.65%	5.81%
10	7	-0.716	-0.361	-0.355	49.59%	12.67%
10	8	-0.731	-0.316	-0.415	56.77%	14.81%
10	9	-0.672	-0.359	-0.313	46.62%	11.19%
	Max	-0.237	-0.202	-0.014	56.77%	14.81%
	Average	-0.500	-0.302	-0.197	33.88%	7.04%
	Min	-0.731	-0.361	-0.415	5.07%	0.49%
	Std Dev	0.181	0.056	0.150	20.67%	5.37%



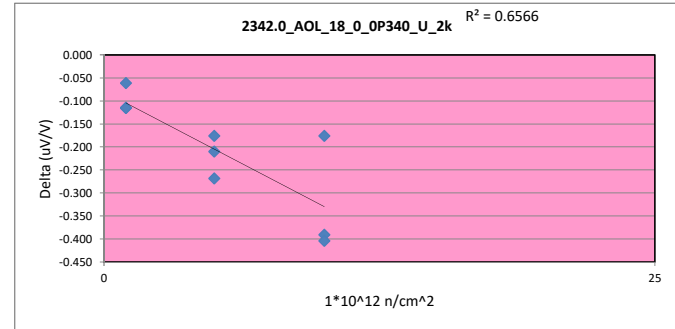
2341.0_AOL_18_0_OP340_U_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4	uV/V	
Min Limit	-1.4	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.400	-1.400	-1.400
Min	-0.384	-0.535	-0.731
Average	-0.316	-0.477	-0.706
Max	-0.237	-0.365	-0.672
UL	1.400	1.400	1.400



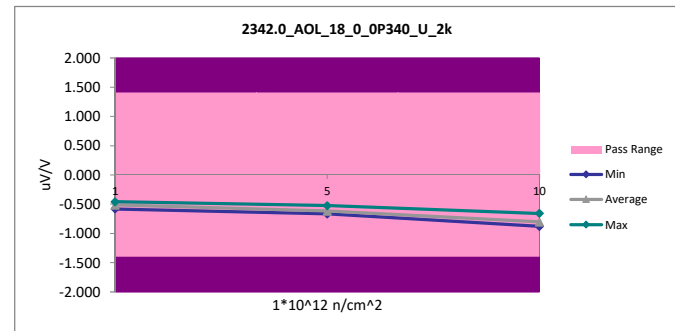
NDD Report OPA4H014-SEP

2342.0_AOL_18_0_OP340_U_2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.4	1.4
Min Limit	-1.4	-1.4

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.460	-0.344	-0.116	25.11%	4.13%
1	2	-0.583	-0.468	-0.115	19.69%	4.10%
1	3	-0.497	-0.436	-0.061	12.27%	2.18%
5	4	-0.668	-0.400	-0.268	40.15%	9.58%
5	5	-0.666	-0.456	-0.210	31.55%	7.50%
5	6	-0.523	-0.347	-0.176	33.70%	6.30%
10	7	-0.870	-0.479	-0.391	44.96%	13.97%
10	8	-0.658	-0.482	-0.176	26.74%	6.29%
10	9	-0.881	-0.476	-0.404	45.93%	14.44%
Max		-0.460	-0.344	-0.061	45.93%	14.44%
Average		-0.645	-0.432	-0.213	31.12%	7.61%
Min		-0.881	-0.482	-0.404	12.27%	2.18%
Std Dev		0.151	0.055	0.121	11.41%	4.31%



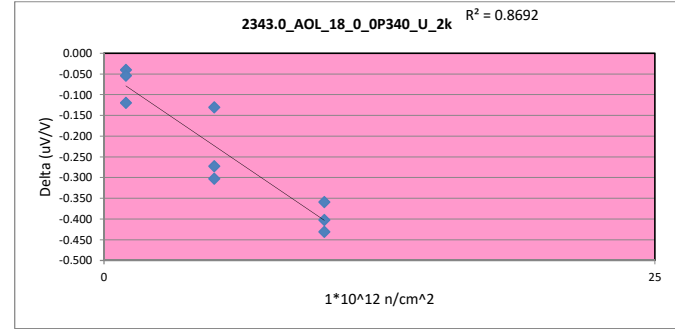
2342.0_AOL_18_0_OP340_U_2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4	uV/V	
Min Limit	-1.4	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.400	-1.400	-1.400
Min	-0.583	-0.668	-0.881
Average	-0.513	-0.619	-0.803
Max	-0.460	-0.523	-0.658
UL	1.400	1.400	1.400



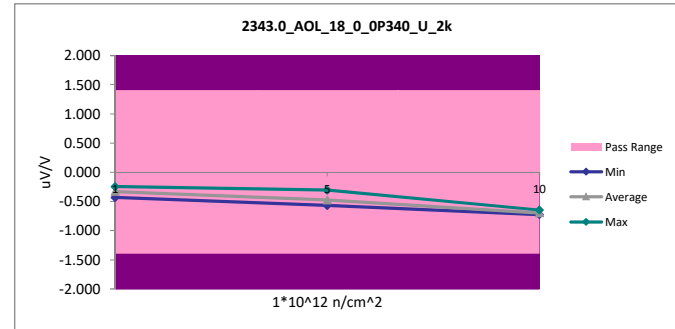
NDD Report
OPA4H014-SEP

2343.0 AOL 18 0 OP340 U 2k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	1.4	1.4
Min Limit	-1.4	-1.4

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.246	-0.206	-0.040	16.21%	1.42%
1	2	-0.433	-0.313	-0.120	27.71%	4.28%
1	3	-0.311	-0.257	-0.054	17.43%	1.94%
5	4	-0.572	-0.269	-0.303	53.02%	10.82%
5	5	-0.555	-0.282	-0.273	49.20%	9.75%
5	6	-0.307	-0.176	-0.131	42.60%	4.67%
10	7	-0.726	-0.295	-0.431	59.34%	15.39%
10	8	-0.647	-0.288	-0.359	55.52%	12.83%
10	9	-0.721	-0.319	-0.402	55.75%	14.36%
Max		-0.246	-0.176	-0.040	59.34%	15.39%
Average		-0.502	-0.267	-0.235	41.86%	8.39%
Min		-0.726	-0.319	-0.431	16.21%	1.42%
Std Dev		0.184	0.048	0.151	17.03%	5.40%



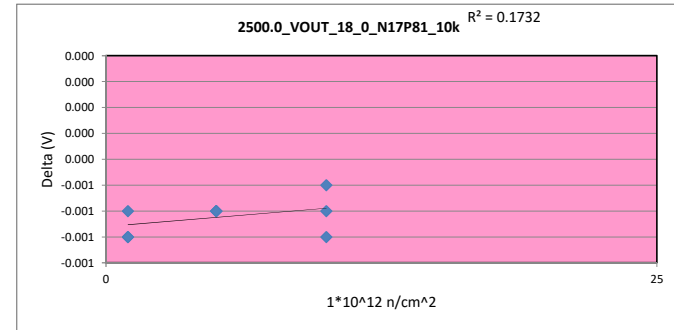
2343.0 AOL 18 0 OP340 U 2k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4	uV/V	
Min Limit	-1.4	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-1.400	-1.400	-1.400
Min	-0.433	-0.572	-0.726
Average	-0.330	-0.478	-0.698
Max	-0.246	-0.307	-0.647
UL	1.400	1.400	1.400



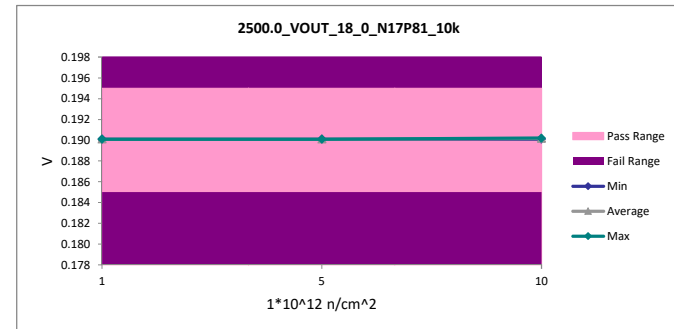
NDD Report OPA4H014-SEP

2500.0 VOUT_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.195	0.195
Min Limit	0.185	0.185

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.190	0.191	-0.001	-0.37%	7.00%
1	2	0.190	0.191	-0.001	-0.32%	6.00%
1	3	0.190	0.191	-0.001	-0.37%	7.00%
5	4	0.190	0.191	-0.001	-0.32%	6.00%
5	5	0.190	0.191	-0.001	-0.32%	6.00%
5	6	0.190	0.191	-0.001	-0.32%	6.00%
10	7	0.190	0.191	0.000	-0.26%	5.00%
10	8	0.190	0.191	-0.001	-0.37%	7.00%
10	9	0.190	0.191	-0.001	-0.32%	6.00%
Max		0.190	0.191	0.000	-0.26%	7.00%
Average		0.190	0.191	-0.001	-0.33%	6.22%
Min		0.190	0.191	-0.001	-0.37%	5.00%
Std Dev		0.000	0.000	0.000	0.04%	0.67%



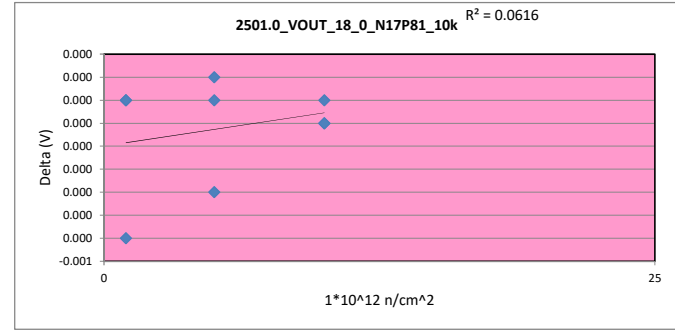
2500.0 VOUT_18_0_N17P81			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.195	V	
Min Limit	0.185	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.185	0.185	0.185
Min	0.190	0.190	0.190
Average	0.190	0.190	0.190
Max	0.190	0.190	0.190
UL	0.195	0.195	0.195



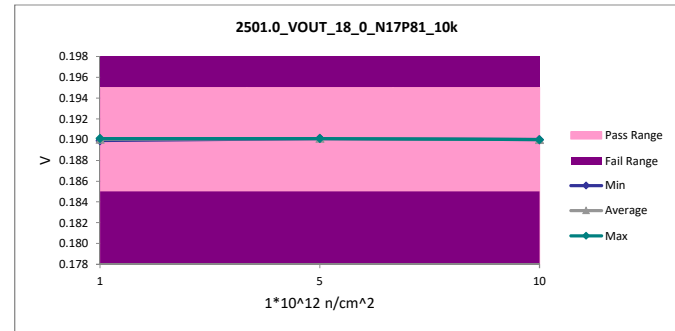
NDD Report
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2501.0 VOUT_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.195	0.195
Min Limit	0.185	0.185

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.190	0.190	0.000	-0.21%	4.00%
1	2	0.190	0.190	0.000	0.11%	2.00%
1	3	0.190	0.190	0.000	0.11%	2.00%
5	4	0.190	0.190	0.000	0.16%	3.00%
5	5	0.190	0.190	0.000	-0.11%	2.00%
5	6	0.190	0.190	0.000	0.11%	2.00%
10	7	0.190	0.190	0.000	0.11%	2.00%
10	8	0.190	0.190	0.000	0.05%	1.00%
10	9	0.190	0.190	0.000	0.05%	1.00%
Max		0.190	0.190	0.000	0.16%	4.00%
Average		0.190	0.190	0.000	0.04%	2.11%
Min		0.190	0.190	0.000	-0.21%	1.00%
Std Dev		0.000	0.000	0.000	0.12%	0.93%



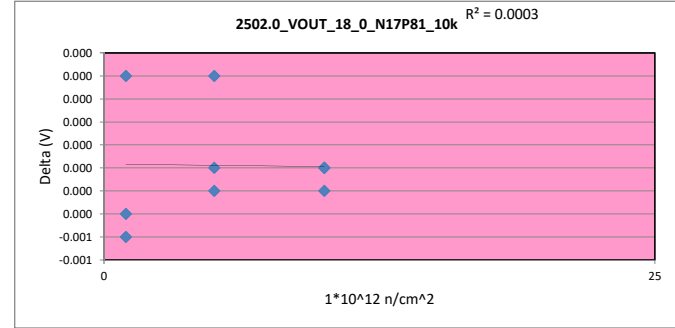
2501.0 VOUT_18_0_N17P81			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.195	V	
Min Limit	0.185	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.185	0.185	0.185
Min	0.190	0.190	0.190
Average	0.190	0.190	0.190
Max	0.190	0.190	0.190
UL	0.195	0.195	0.195



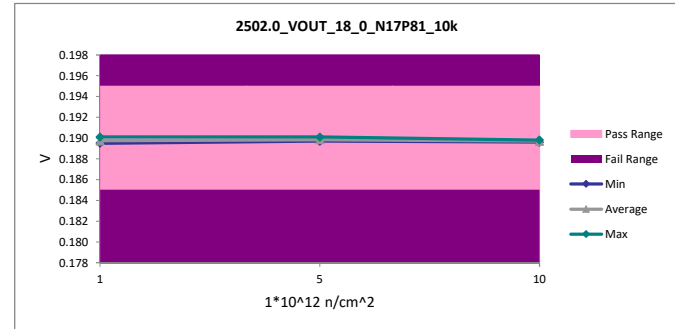
NDD Report
OPA4H014-SEP

2502.0 VOUT_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.195	0.195
Min Limit	0.185	0.185

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.190	0.190	0.000	-0.26%	5.00%
1	2	0.190	0.190	0.000	-0.21%	4.00%
1	3	0.190	0.190	0.000	0.11%	2.00%
5	4	0.190	0.190	0.000	-0.16%	3.00%
5	5	0.190	0.190	0.000	-0.11%	2.00%
5	6	0.190	0.190	0.000	0.11%	2.00%
10	7	0.190	0.190	0.000	-0.11%	2.00%
10	8	0.190	0.190	0.000	-0.16%	3.00%
10	9	0.190	0.190	0.000	-0.11%	2.00%
Max		0.190	0.190	0.000	0.11%	5.00%
Average		0.190	0.190	0.000	-0.10%	2.78%
Min		0.190	0.190	0.000	-0.26%	2.00%
Std Dev		0.000	0.000	0.000	0.13%	1.09%



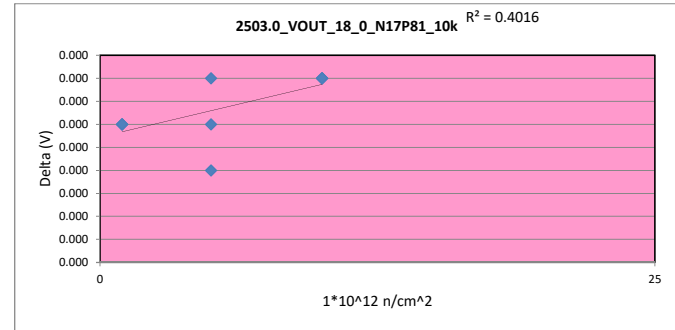
2502.0 VOUT_18_0_N17P81			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.195	V	
Min Limit	0.185	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.185	0.185	0.185
Min	0.190	0.190	0.190
Average	0.190	0.190	0.190
Max	0.190	0.190	0.190
UL	0.195	0.195	0.195



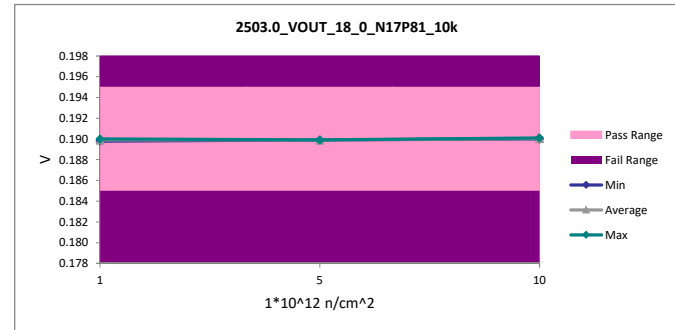
NDD Report OPA4H014-SEP

2503.0_VOUT_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	0.195	0.195
Min Limit	0.185	0.185

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.190	0.190	0.000	0.16%	3.00%
1	2	0.190	0.190	0.000	0.16%	3.00%
1	3	0.190	0.190	0.000	0.16%	3.00%
5	4	0.190	0.190	0.000	0.16%	3.00%
5	5	0.190	0.190	0.000	0.21%	4.00%
5	6	0.190	0.190	0.000	0.11%	2.00%
10	7	0.190	0.190	0.000	0.21%	4.00%
10	8	0.190	0.190	0.000	0.21%	4.00%
10	9	0.190	0.190	0.000	0.21%	4.00%
Max		0.190	0.190	0.000	0.21%	4.00%
Average		0.190	0.190	0.000	0.18%	3.33%
Min		0.190	0.190	0.000	0.11%	2.00%
Std Dev		0.000	0.000	0.000	0.04%	0.71%



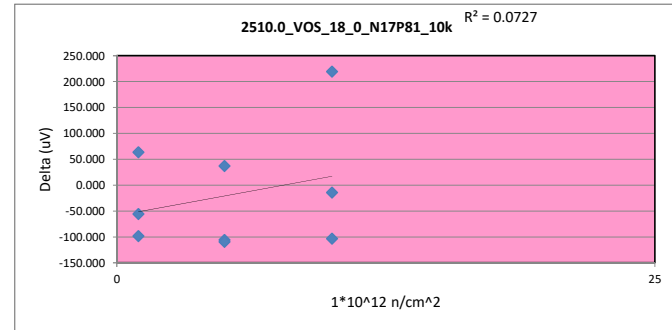
2503.0_VOUT_18_0_N17P81			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.195	V	
Min Limit	0.185	V	
1*10 ¹² n/cm ²	1	5	10
LL	0.185	0.185	0.185
Min	0.190	0.190	0.190
Average	0.190	0.190	0.190
Max	0.190	0.190	0.190
UL	0.195	0.195	0.195



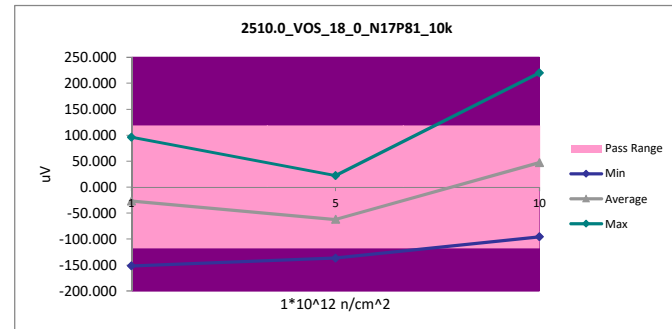
NDD Report
OPA4H014-SEP

2510.0_VOS_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	96.460	32.900	63.560	65.89%	26.93%
1	2	-25.960	29.850	-55.810	214.98%	23.65%
1	3	-151.660	-53.400	-98.260	64.79%	41.64%
5	4	-72.010	33.660	-105.670	146.74%	44.78%
5	5	-136.860	-27.280	-109.580	80.07%	46.43%
5	6	22.160	-14.840	37.000	166.97%	15.68%
10	7	-95.700	7.350	-103.050	107.68%	43.67%
10	8	16.500	30.540	-14.040	-85.09%	5.95%
10	9	220.210	0.900	219.310	99.59%	92.93%
	Max	220.210	33.660	219.310	214.98%	92.93%
	Average	-14.096	4.409	-18.504	95.74%	37.96%
	Min	-151.660	-53.400	-109.580	-85.09%	5.95%
	Std Dev	119.123	31.095	110.218	84.30%	25.08%



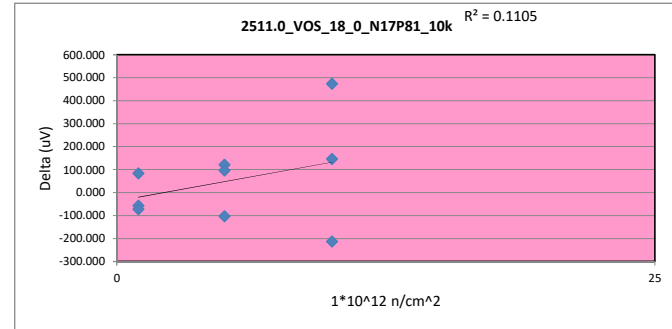
2510.0_VOS_18_0_N17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	-151.660	-136.860	-95.700
Average	-27.053	-62.237	47.003
Max	96.460	22.160	220.210
UL	118.000	118.000	118.000



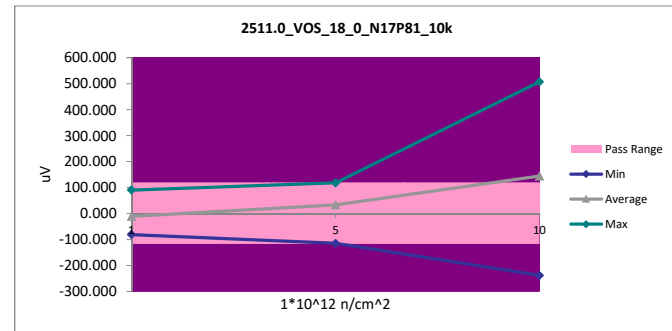
NDD Report OPA4H014-SEP

2511.0_VOS_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-42.690	14.370	-57.060	133.66%	24.18%
1	2	90.410	6.410	84.000	92.91%	35.59%
1	3	-81.200	-8.650	-72.550	89.35%	30.74%
5	4	117.190	-3.540	120.730	103.02%	51.16%
5	5	93.830	-3.030	96.860	103.23%	41.04%
5	6	-114.650	-12.020	-102.630	89.52%	43.49%
10	7	-238.320	-25.990	-212.330	89.09%	89.97%
10	8	506.860	33.180	473.680	93.45%	200.71%
10	9	163.770	17.280	146.490	89.45%	62.07%
Max		506.860	33.180	473.680	133.66%	200.71%
Average		55.022	2.001	53.021	98.19%	64.33%
Min		-238.320	-25.990	-212.330	89.09%	24.18%
Std Dev		213.761	17.775	198.646	14.45%	54.75%



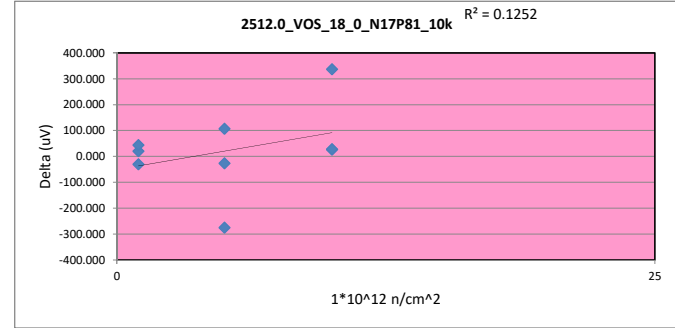
2511.0_VOS_18_0_N17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	-81.200	-114.650	-238.320
Average	-11.160	32.123	144.103
Max	90.410	117.190	506.860
UL	118.000	118.000	118.000



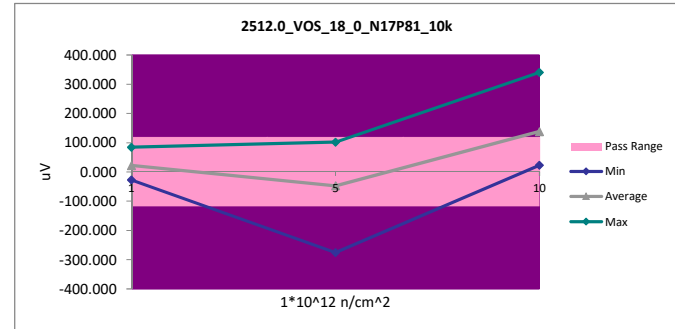
NDD Report OPA4H014-SEP

2512.0_VOS_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-26.920	3.710	-30.630	113.78%	12.98%
1	2	9.240	-10.720	19.960	216.02%	8.46%
1	3	84.850	41.550	43.300	51.03%	18.35%
5	4	31.870	58.410	-26.540	-83.28%	11.25%
5	5	-276.270	-1.590	-274.680	99.42%	116.39%
5	6	101.890	-4.320	106.210	104.24%	45.00%
10	7	23.250	-3.080	26.330	113.25%	11.16%
10	8	50.750	23.390	27.360	53.91%	11.59%
10	9	340.510	3.280	337.230	99.04%	142.89%
Max		340.510	58.410	337.230	216.02%	142.89%
Average		37.686	12.292	25.393	85.27%	42.01%
Min		-276.270	-10.720	-274.680	-83.28%	8.46%
Std Dev		158.908	23.705	158.117	79.06%	51.32%



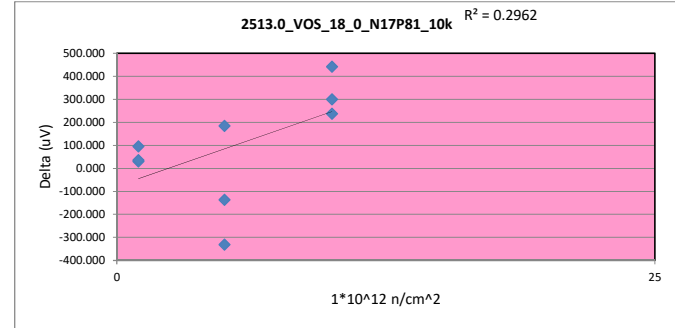
2512.0_VOS_18_0_N17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	-26.920	-276.270	23.250
Average	22.390	-47.503	138.170
Max	84.850	101.890	340.510
UL	118.000	118.000	118.000



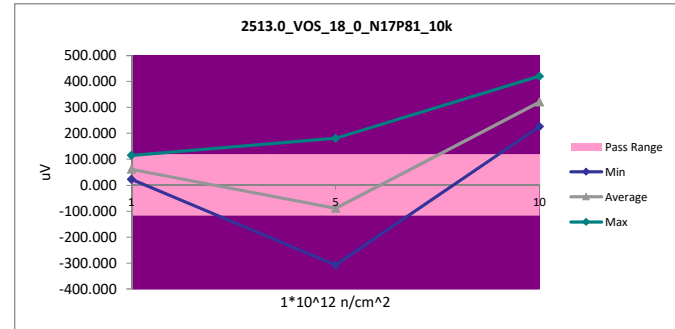
NDD Report
OPA4H014-SEP

2513.0_VOS_18_0_N17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	22.580	-7.040	29.620	131.18%	12.55%
1	2	115.270	19.270	96.000	83.28%	40.68%
1	3	45.240	9.040	36.200	80.02%	15.34%
5	4	-307.900	23.410	-331.310	107.60%	140.39%
5	5	181.030	-4.020	185.050	102.22%	78.41%
5	6	-141.150	-4.390	-136.760	96.89%	57.95%
10	7	313.050	13.300	299.750	95.75%	127.01%
10	8	420.570	-20.600	441.170	104.90%	186.94%
10	9	226.230	-10.730	236.960	104.74%	100.41%
	Max	420.570	23.410	441.170	131.18%	186.94%
	Average	97.213	2.027	95.187	100.73%	84.41%
	Min	-307.900	-20.600	-331.310	80.02%	12.55%
	Std Dev	224.818	14.856	232.702	14.93%	59.48%



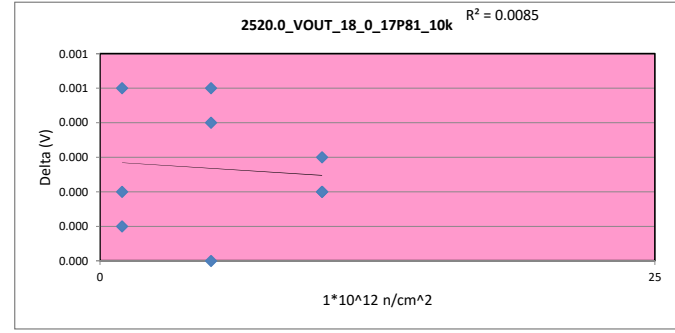
2513.0_VOS_18_0_N17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	22.580	-307.900	226.230
Average	61.030	-89.340	319.950
Max	115.270	181.030	420.570
UL	118.000	118.000	118.000



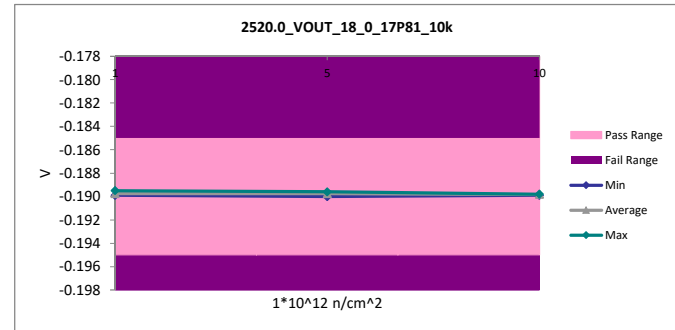
NDD Report OPA4H014-SEP

2520.0_VOUT_18_0_17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.185	-0.185
Min Limit	-0.195	-0.195

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.190	-0.190	0.000	-0.26%	5.00%
1	2	-0.190	-0.190	0.000	-0.11%	2.00%
1	3	-0.190	-0.190	0.000	-0.05%	1.00%
5	4	-0.190	-0.190	0.000	0.00%	0.00%
5	5	-0.190	-0.190	0.000	-0.21%	4.00%
5	6	-0.190	-0.190	0.000	-0.26%	5.00%
10	7	-0.190	-0.190	0.000	-0.11%	2.00%
10	8	-0.190	-0.190	0.000	-0.16%	3.00%
10	9	-0.190	-0.190	0.000	-0.11%	2.00%
Max		-0.190	-0.190	0.000	0.00%	5.00%
Average		-0.190	-0.190	0.000	-0.14%	2.67%
Min		-0.190	-0.190	0.000	-0.26%	0.00%
Std Dev		0.000	0.000	0.000	0.09%	1.73%



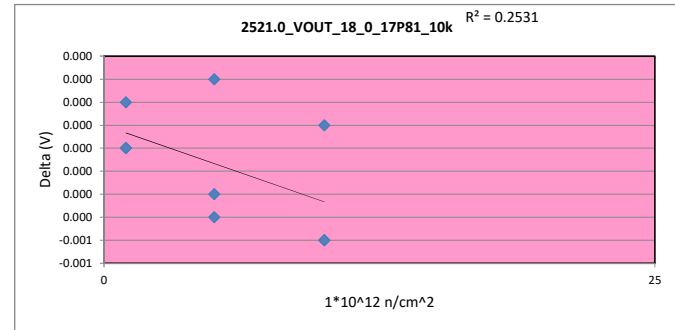
2520.0_VOUT_18_0_17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.185	V	
Min Limit	-0.195	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.195	-0.195	-0.195
Min	-0.190	-0.190	-0.190
Average	-0.190	-0.190	-0.190
Max	-0.190	-0.190	-0.190
UL	-0.185	-0.185	-0.185



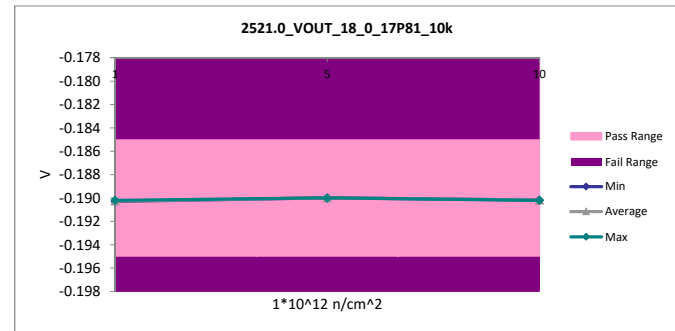
NDD Report OPA4H014-SEP

2521.0_VOUT_18_0_17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.185	-0.185
Min Limit	-0.195	-0.195

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.190	-0.190	0.000	0.05%	1.00%
1	2	-0.190	-0.190	0.000	0.05%	1.00%
1	3	-0.190	-0.190	0.000	-0.05%	1.00%
5	4	-0.190	-0.190	0.000	-0.11%	2.00%
5	5	-0.190	-0.190	0.000	0.21%	4.00%
5	6	-0.190	-0.190	0.000	0.16%	3.00%
10	7	-0.190	-0.190	0.000	0.26%	5.00%
10	8	-0.190	-0.190	0.000	0.26%	5.00%
10	9	-0.190	-0.190	0.000	0.00%	0.00%
Max		-0.190	-0.190	0.000	0.26%	5.00%
Average		-0.190	-0.190	0.000	0.09%	2.44%
Min		-0.190	-0.190	0.000	-0.11%	0.00%
Std Dev		0.000	0.000	0.000	0.14%	1.88%



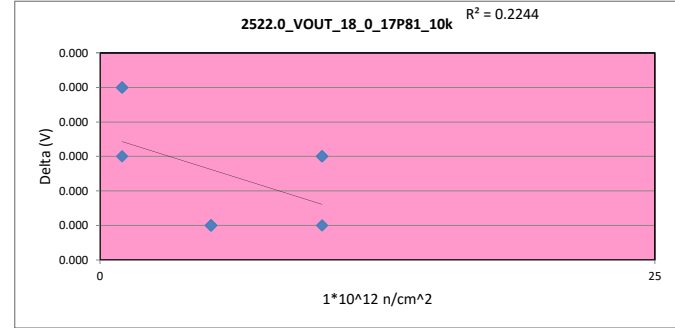
2521.0_VOUT_18_0_17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.185	V	
Min Limit	-0.195	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.195	-0.195	-0.195
Min	-0.190	-0.190	-0.190
Average	-0.190	-0.190	-0.190
Max	-0.190	-0.190	-0.190
UL	-0.185	-0.185	-0.185



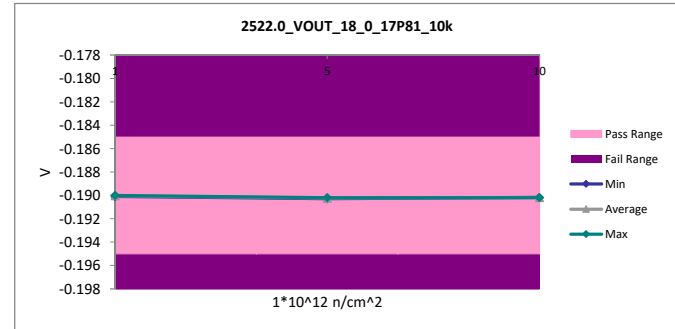
NDD Report OPA4H014-SEP

2522.0_VOUT_18_0_17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.185	-0.185
Min Limit	-0.195	-0.195

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.190	-0.190	0.000	0.00%	0.00%
1	2	-0.190	-0.190	0.000	-0.05%	1.00%
1	3	-0.190	-0.190	0.000	-0.05%	1.00%
5	4	-0.190	-0.190	0.000	0.05%	1.00%
5	5	-0.190	-0.190	0.000	0.05%	1.00%
5	6	-0.190	-0.190	0.000	0.05%	1.00%
10	7	-0.190	-0.190	0.000	0.00%	0.00%
10	8	-0.190	-0.190	0.000	0.00%	0.00%
10	9	-0.190	-0.190	0.000	0.05%	1.00%
Max		-0.190	-0.190	0.000	0.05%	1.00%
Average		-0.190	-0.190	0.000	0.01%	0.67%
Min		-0.190	-0.190	0.000	-0.05%	0.00%
Std Dev		0.000	0.000	0.000	0.04%	0.50%



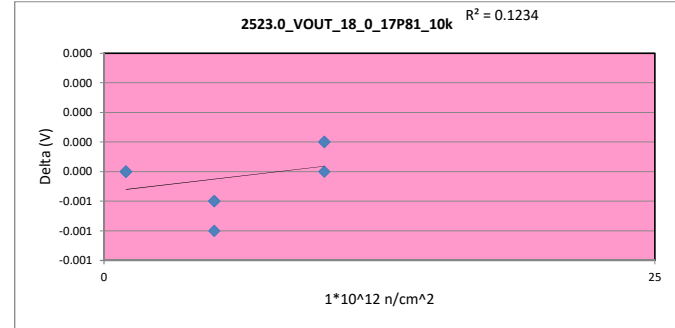
2522.0_VOUT_18_0_17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.185	V	
Min Limit	-0.195	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.195	-0.195	-0.195
Min	-0.190	-0.190	-0.190
Average	-0.190	-0.190	-0.190
Max	-0.190	-0.190	-0.190
UL	-0.185	-0.185	-0.185



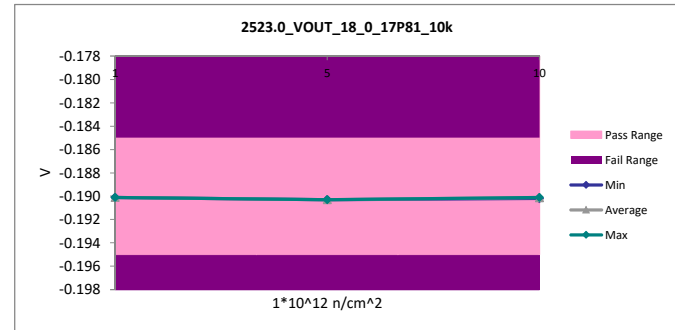
NDD Report
OPA4H014-SEP

2523.0_VOUT_18_0_17P81_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.185	-0.185
Min Limit	-0.195	-0.195

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.190	-0.190	0.000	0.21%	4.00%
1	2	-0.190	-0.190	0.000	0.21%	4.00%
1	3	-0.190	-0.190	0.000	0.21%	4.00%
5	4	-0.190	-0.190	-0.001	0.26%	5.00%
5	5	-0.190	-0.190	-0.001	0.32%	6.00%
5	6	-0.190	-0.190	-0.001	0.26%	5.00%
10	7	-0.190	-0.190	0.000	0.21%	4.00%
10	8	-0.190	-0.190	0.000	0.16%	3.00%
10	9	-0.190	-0.190	0.000	0.16%	3.00%
Max		-0.190	-0.190	0.000	0.32%	6.00%
Average		-0.190	-0.190	0.000	0.22%	4.22%
Min		-0.190	-0.190	-0.001	0.16%	3.00%
Std Dev		0.000	0.000	0.000	0.05%	0.97%



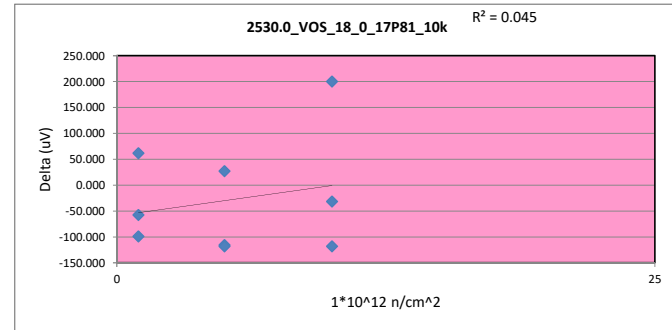
2523.0_VOUT_18_0_17P81_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.185	V	
Min Limit	-0.195	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.195	-0.195	-0.195
Min	-0.190	-0.190	-0.190
Average	-0.190	-0.190	-0.190
Max	-0.190	-0.190	-0.190
UL	-0.185	-0.185	-0.185



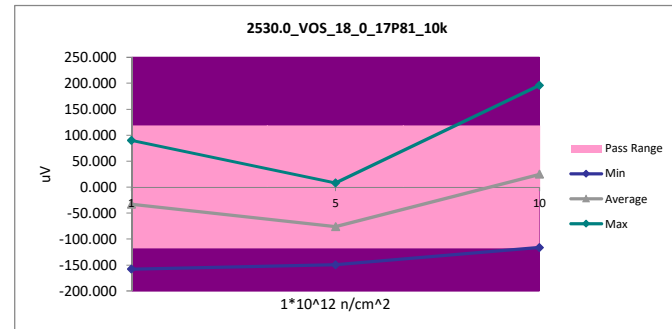
NDD Report OPA4H014-SEP

2530.0 VOS 18 0 17P81 10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	90.280	28.640	61.640	68.28%	26.12%
1	2	-32.850	24.570	-57.420	174.79%	24.33%
1	3	-157.910	-58.730	-99.180	62.81%	42.03%
5	4	-86.810	28.910	-115.720	133.30%	49.03%
5	5	-149.930	-31.940	-117.990	78.70%	50.00%
5	6	7.990	-19.140	27.130	339.55%	11.50%
10	7	-116.300	1.820	-118.120	101.56%	50.05%
10	8	-5.890	25.830	-31.720	538.54%	13.44%
10	9	195.880	-4.120	200.000	102.10%	84.75%
	Max	195.880	28.910	200.000	538.54%	84.75%
	Average	-28.393	-0.462	-27.931	177.74%	39.03%
	Min	-157.910	-58.730	-118.120	62.81%	11.50%
	Std Dev	116.682	31.187	107.772	160.03%	23.01%



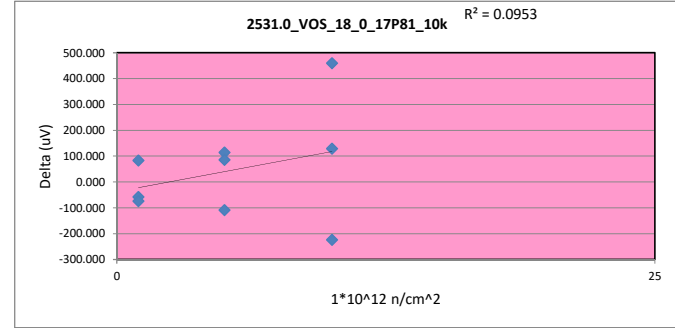
2530.0 VOS 18 0 17P81 10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	-157.910	-149.930	-116.300
Average	-33.493	-76.250	24.563
Max	90.280	7.990	195.880
UL	118.000	118.000	118.000



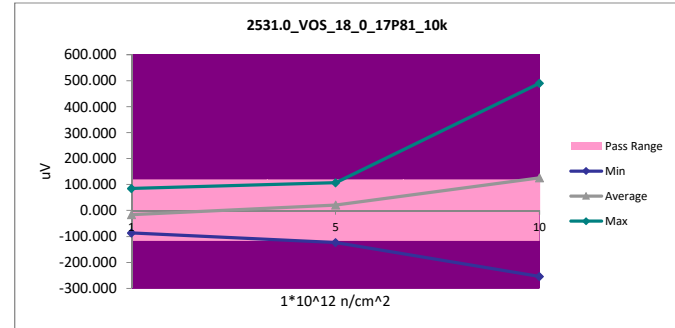
NDD Report OPA4H014-SEP

2531.0 VOS 18 0 17P81 10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-46.820	11.340	-58.160	124.22%	24.64%
1	2	84.910	2.200	82.710	97.41%	35.05%
1	3	-86.530	-12.370	-74.160	85.70%	31.42%
5	4	106.360	-7.360	113.720	106.92%	48.19%
5	5	78.980	-6.750	85.730	108.55%	36.33%
5	6	-124.160	-14.890	-109.270	88.01%	46.30%
10	7	-254.230	-30.760	-223.470	87.90%	94.69%
10	8	489.390	29.290	460.100	94.01%	194.96%
10	9	141.720	12.550	129.170	91.14%	54.73%
Max		489.390	29.290	460.100	124.22%	194.96%
Average		43.291	-1.861	45.152	98.21%	62.92%
Min		-254.230	-30.760	-223.470	85.70%	24.64%
Std Dev		211.308	17.813	196.186	12.72%	53.55%



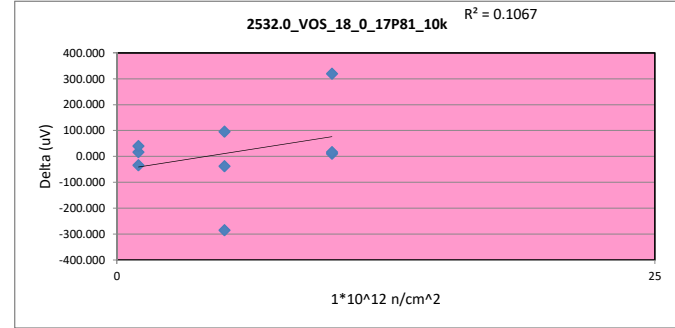
2531.0 VOS 18 0 17P81 10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	-86.530	-124.160	-254.230
Average	-16.147	20.393	125.627
Max	84.910	106.360	489.390
UL	118.000	118.000	118.000



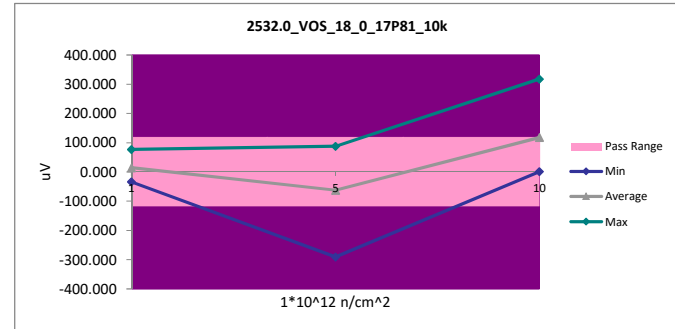
NDD Report OPA4H014-SEP

2532.0 VOS 18 0 17P81 10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-33.830	0.310	-34.140	100.92%	14.47%
1	2	0.940	-15.400	16.340	1738.30%	6.92%
1	3	76.880	36.660	40.220	52.32%	17.04%
5	4	16.370	54.060	-37.690	-230.24%	15.97%
5	5	-290.870	-6.430	-284.440	97.79%	120.53%
5	6	87.170	-8.260	95.430	109.48%	40.44%
10	7	1.250	-8.640	9.890	791.20%	4.19%
10	8	34.570	18.010	16.560	47.90%	7.02%
10	9	317.880	-1.380	319.260	100.43%	135.28%
	Max	317.880	54.060	319.260	1738.30%	135.28%
	Average	23.373	7.659	15.714	312.01%	40.21%
	Min	-290.870	-15.400	-284.440	-230.24%	4.19%
	Std Dev	156.866	23.681	155.949	599.10%	50.97%



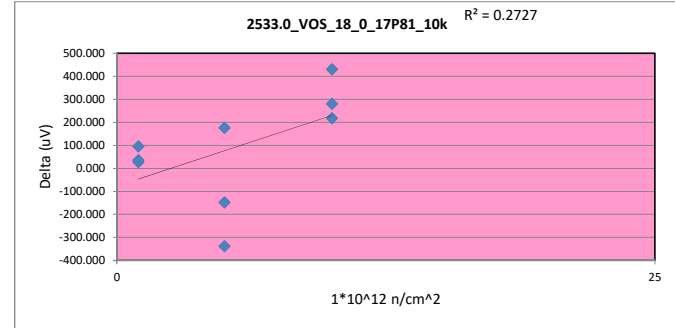
2532.0 VOS 18 0 17P81 10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	-33.830	-290.870	1.250
Average	14.663	-62.443	117.900
Max	76.880	87.170	317.880
UL	118.000	118.000	118.000



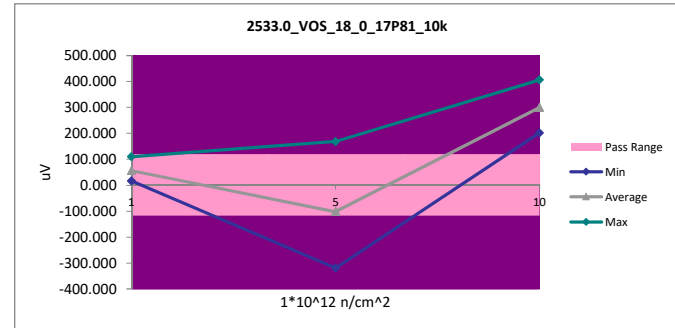
NDD Report
OPA4H014-SEP

2533.0 VOS 18 0 17P81 10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV	uV
Max Limit	118	118
Min Limit	-118	-118

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	17.210	-10.530	27.740	161.19%	11.75%
1	2	109.880	15.020	94.860	86.33%	40.19%
1	3	40.890	5.370	35.520	86.87%	15.05%
5	4	-319.300	19.270	-338.570	106.04%	143.46%
5	5	168.650	-7.920	176.570	104.70%	74.82%
5	6	-155.250	-7.530	-147.720	95.15%	62.59%
10	7	289.960	9.170	280.790	96.84%	118.98%
10	8	406.130	-24.440	430.570	106.02%	182.44%
10	9	201.760	-15.520	217.280	107.69%	92.07%
	Max	406.130	19.270	430.570	161.19%	182.44%
	Average	84.437	-1.901	86.338	105.65%	82.37%
	Min	-319.300	-24.440	-338.570	86.33%	11.75%
	Std Dev	221.951	14.773	229.949	22.37%	58.02%



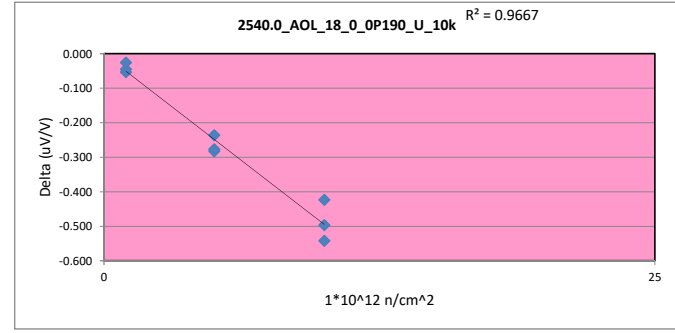
2533.0 VOS 18 0 17P81 10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	118	uV	
Min Limit	-118	uV	
1*10 ¹² n/cm ²	1	5	10
LL	-118.000	-118.000	-118.000
Min	17.210	-319.300	201.760
Average	55.993	-101.967	299.283
Max	109.880	168.650	406.130
UL	118.000	118.000	118.000



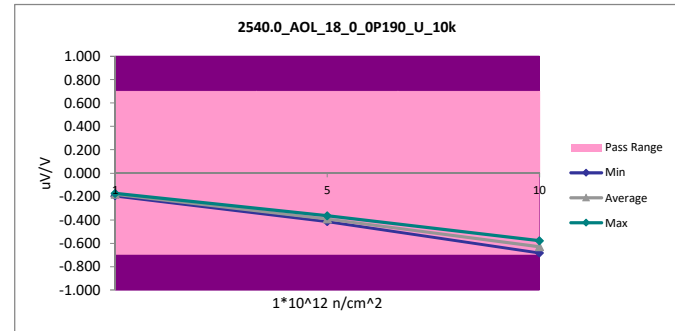
NDD Report
OPA4H014-SEP

2540.0 AOL 18 0 OP190 U 10		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.7	0.7
Min Limit	-0.7	-0.7

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.174	-0.120	-0.054	31.07%	3.85%
1	2	-0.193	-0.148	-0.045	23.41%	3.24%
1	3	-0.175	-0.150	-0.026	14.66%	1.84%
5	4	-0.415	-0.133	-0.282	67.94%	20.16%
5	5	-0.367	-0.131	-0.236	64.37%	16.86%
5	6	-0.398	-0.121	-0.277	69.65%	19.80%
10	7	-0.578	-0.155	-0.423	73.16%	30.21%
10	8	-0.629	-0.132	-0.496	78.94%	35.44%
10	9	-0.683	-0.141	-0.542	79.36%	38.72%
	Max	-0.174	-0.120	-0.026	79.36%	38.72%
	Average	-0.401	-0.137	-0.265	55.84%	18.90%
	Min	-0.683	-0.155	-0.528	14.66%	1.84%
	Std Dev	0.197	0.013	0.196	25.39%	13.98%



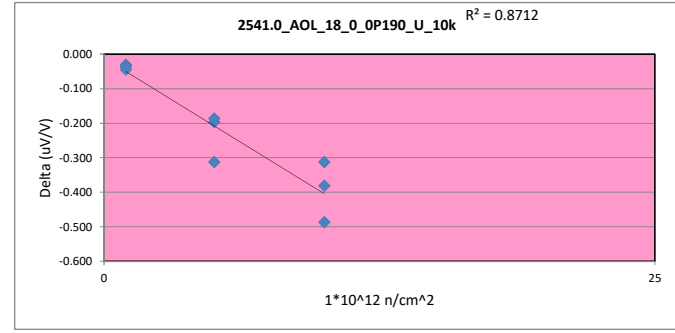
2540.0 AOL 18 0 OP190 U 10			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.7	uV/V	
Min Limit	-0.7	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.700	-0.700	-0.700
Min	-0.193	-0.415	-0.683
Average	-0.181	-0.393	-0.630
Max	-0.174	-0.367	-0.578
UL	0.700	0.700	0.700



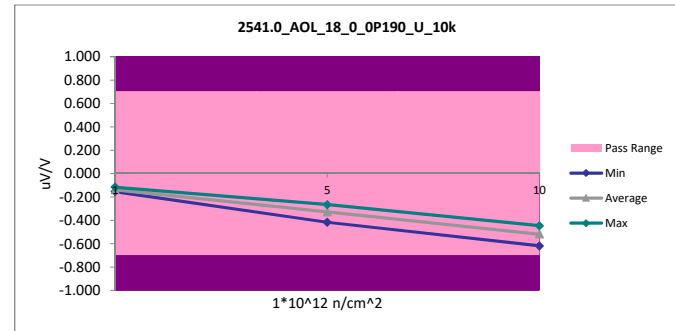
NDD Report
OPA4H014-SEP

2541.0 AOL 18 0 OP190 U 10		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.7	0.7
Min Limit	-0.7	-0.7

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.116	-0.085	-0.031	26.76%	2.22%
1	2	-0.154	-0.118	-0.036	23.40%	2.58%
1	3	-0.149	-0.105	-0.045	29.99%	3.20%
5	4	-0.304	-0.107	-0.197	64.77%	14.06%
5	5	-0.417	-0.105	-0.312	74.92%	22.30%
5	6	-0.267	-0.081	-0.186	69.79%	13.31%
10	7	-0.447	-0.134	-0.313	70.01%	22.33%
10	8	-0.490	-0.109	-0.381	77.73%	27.22%
10	9	-0.619	-0.133	-0.486	78.58%	34.75%
	Max	-0.116	-0.081	-0.031	78.58%	34.75%
	Average	-0.329	-0.108	-0.221	57.33%	15.78%
	Min	-0.619	-0.134	-0.486	23.40%	2.22%
	Std Dev	0.175	0.018	0.164	23.40%	11.73%



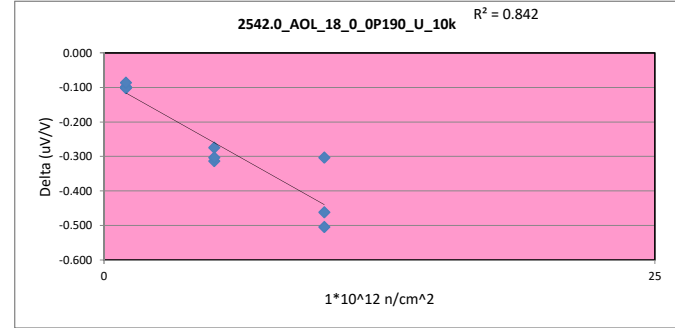
2541.0 AOL 18 0 OP190 U 10			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.7	uV/V	
Min Limit	-0.7	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.700	-0.700	-0.700
Min	-0.154	-0.417	-0.619
Average	-0.140	-0.329	-0.519
Max	-0.116	-0.267	-0.447
UL	0.700	0.700	0.700



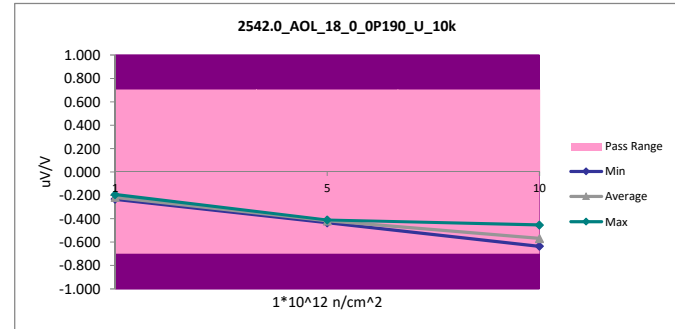
NDD Report
OPA4H014-SEP

2542.0 AOL_18_0_0P190_U_10k		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.7	0.7
Min Limit	-0.7	-0.7

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.194	-0.095	-0.099	50.80%	7.04%
1	2	-0.233	-0.131	-0.102	43.65%	7.27%
1	3	-0.224	-0.137	-0.087	38.65%	6.18%
5	4	-0.435	-0.122	-0.313	71.96%	22.36%
5	5	-0.410	-0.136	-0.274	66.88%	19.59%
5	6	-0.413	-0.111	-0.303	73.27%	21.64%
10	7	-0.618	-0.156	-0.461	74.70%	32.96%
10	8	-0.454	-0.151	-0.303	66.76%	21.66%
10	9	-0.635	-0.131	-0.505	79.41%	36.04%
Max		-0.194	-0.095	-0.087	79.41%	36.04%
Average		-0.402	-0.130	-0.272	62.90%	19.42%
Min		-0.635	-0.156	-0.505	38.65%	6.18%
Std Dev		0.161	0.019	0.153	14.74%	10.92%



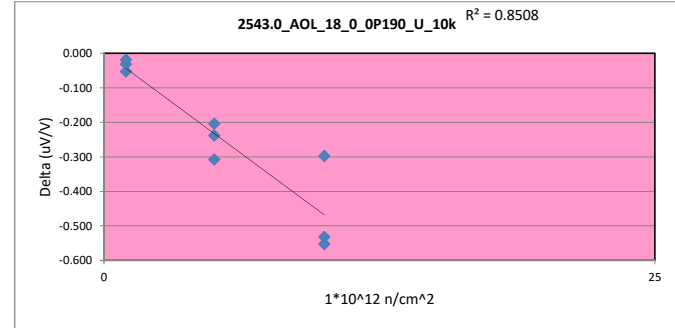
2542.0 AOL_18_0_0P190_U_10k			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.7	uV/V	
Min Limit	-0.7	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.700	-0.700	-0.700
Min	-0.233	-0.435	-0.635
Average	-0.217	-0.419	-0.569
Max	-0.194	-0.410	-0.454
UL	0.700	0.700	0.700



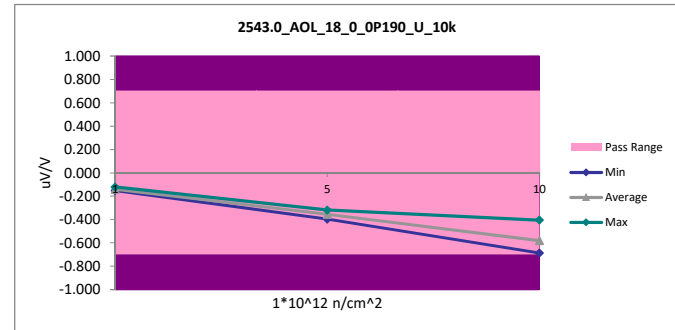
NDD Report
OPA4H014-SEP

2543.0 AOL 18 0 OP190 U 10		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.7	0.7
Min Limit	-0.7	-0.7

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.151	-0.098	-0.053	34.86%	3.75%
1	2	-0.151	-0.119	-0.032	21.08%	2.28%
1	3	-0.122	-0.103	-0.019	15.49%	1.35%
5	4	-0.320	-0.116	-0.204	63.74%	14.58%
5	5	-0.347	-0.109	-0.238	68.49%	17.00%
5	6	-0.396	-0.088	-0.307	77.66%	21.95%
10	7	-0.648	-0.116	-0.532	82.12%	38.01%
10	8	-0.405	-0.108	-0.298	73.43%	21.26%
10	9	-0.687	-0.134	-0.552	80.42%	39.46%
	Max	-0.122	-0.088	-0.019	82.12%	39.46%
	Average	-0.359	-0.110	-0.248	57.48%	17.74%
	Min	-0.687	-0.134	-0.552	15.49%	1.35%
	Std Dev	0.206	0.013	0.200	26.35%	14.26%



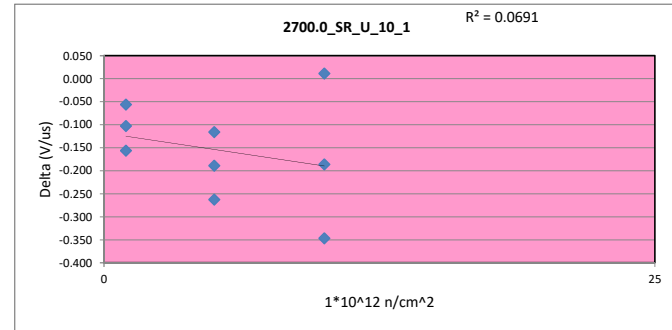
2543.0 AOL 18 0 OP190 U 10			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.7	uV/V	
Min Limit	-0.7	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.700	-0.700	-0.700
Min	-0.151	-0.396	-0.687
Average	-0.141	-0.354	-0.580
Max	-0.122	-0.320	-0.405
UL	0.700	0.700	0.700



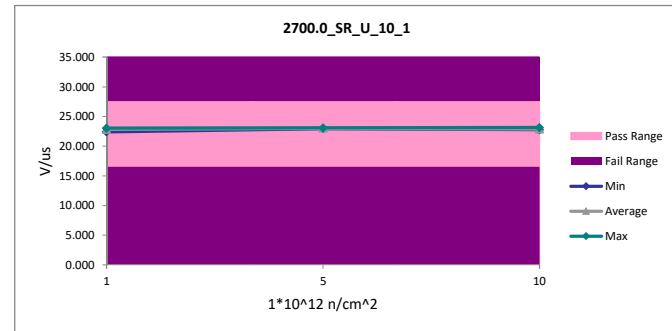
NDD Report OPA4H014-SEP

2700.0 SR U 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	22.411	22.467	-0.056	-0.25%	0.51%
1	2	23.032	23.135	-0.103	-0.45%	0.94%
1	3	22.980	23.136	-0.156	-0.68%	1.42%
5	4	22.954	23.217	-0.263	-1.15%	2.39%
5	5	23.094	23.210	-0.116	-0.50%	1.05%
5	6	22.945	23.134	-0.189	-0.82%	1.72%
10	7	22.764	22.950	-0.186	-0.82%	1.69%
10	8	23.130	23.477	-0.347	-1.50%	3.15%
10	9	22.735	22.724	0.011	0.05%	0.10%
Max		23.130	23.477	0.011	0.05%	3.15%
Average		22.894	23.050	-0.156	-0.68%	1.44%
Min		22.411	22.467	-0.347	-1.50%	0.10%
Std Dev		0.225	0.299	0.107	0.47%	0.94%



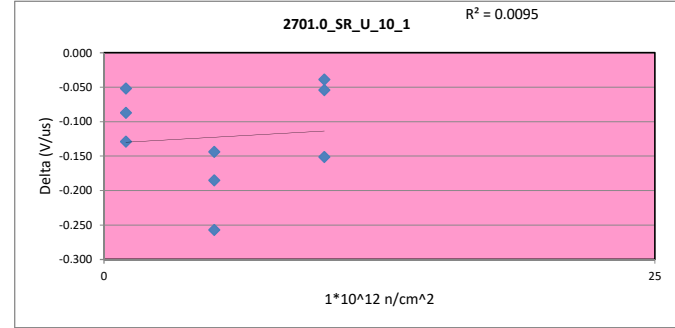
2700.0 SR U 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	22.411	22.945	22.735
Average	22.808	22.998	22.876
Max	23.032	23.094	23.130
UL	27.500	27.500	27.500



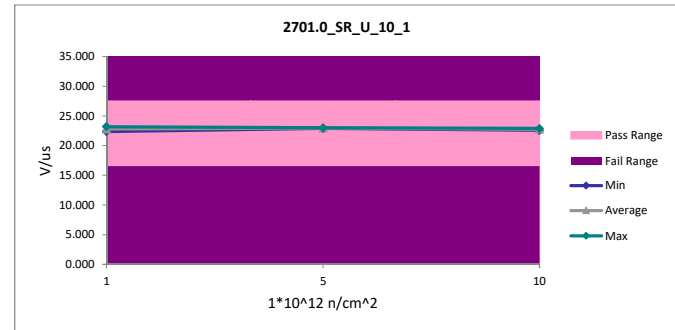
NDD Report
OPA4H014-SEP

2701.0 SR U 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	22.382	22.434	-0.052	-0.23%	0.47%
1	2	23.184	23.313	-0.129	-0.56%	1.17%
1	3	22.776	22.863	-0.087	-0.38%	0.79%
5	4	22.959	23.103	-0.144	-0.63%	1.31%
5	5	22.974	23.159	-0.185	-0.81%	1.68%
5	6	22.888	23.145	-0.257	-1.12%	2.34%
10	7	22.894	23.045	-0.151	-0.66%	1.37%
10	8	22.533	22.587	-0.054	-0.24%	0.49%
10	9	22.859	22.898	-0.039	-0.17%	0.35%
Max		23.184	23.313	-0.039	-0.17%	2.34%
Average		22.828	22.950	-0.122	-0.53%	1.11%
Min		22.382	22.434	-0.257	-1.12%	0.35%
Std Dev		0.241	0.286	0.072	0.31%	0.65%



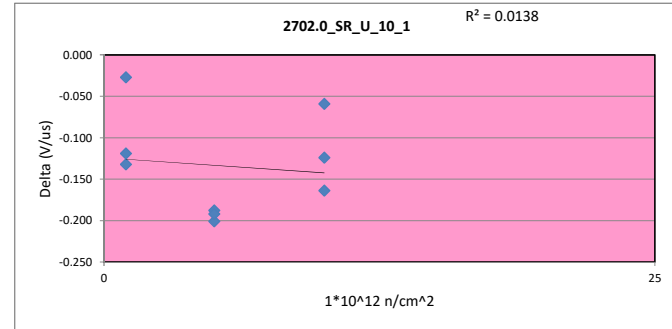
2701.0 SR U 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	22.382	22.888	22.533
Average	22.781	22.940	22.762
Max	23.184	22.974	22.894
UL	27.500	27.500	27.500



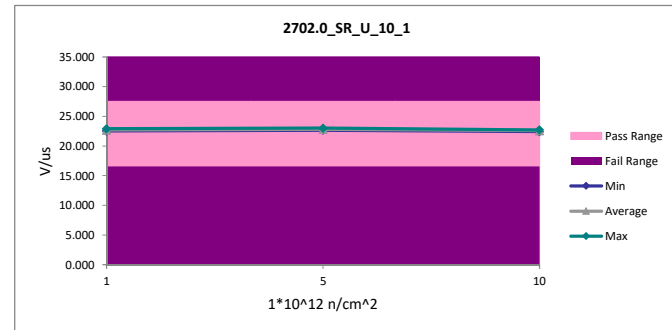
NDD Report OPA4H014-SEP

2702.0 SR U 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	22.582	22.714	-0.132	-0.58%	1.20%
1	2	22.521	22.548	-0.027	-0.12%	0.25%
1	3	22.868	22.987	-0.119	-0.52%	1.08%
5	4	23.018	23.219	-0.201	-0.87%	1.83%
5	5	22.647	22.835	-0.188	-0.83%	1.71%
5	6	22.813	23.005	-0.192	-0.84%	1.75%
10	7	22.707	22.871	-0.164	-0.72%	1.49%
10	8	22.632	22.756	-0.124	-0.55%	1.13%
10	9	22.421	22.480	-0.059	-0.26%	0.54%
Max		23.018	23.219	-0.027	-0.12%	1.83%
Average		22.690	22.824	-0.134	-0.59%	1.22%
Min		22.421	22.480	-0.201	-0.87%	0.25%
Std Dev		0.185	0.232	0.060	0.26%	0.55%



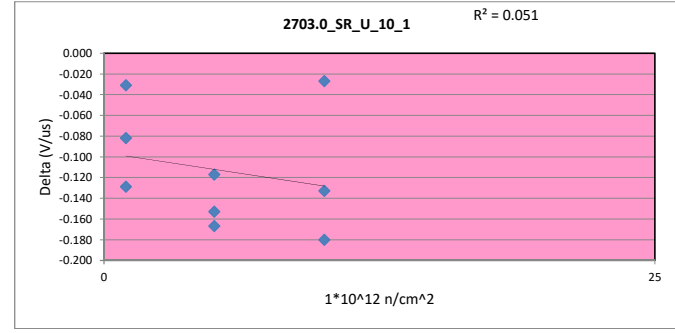
2702.0 SR U 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	22.521	22.647	22.421
Average	22.657	22.826	22.587
Max	22.868	23.018	22.707
UL	27.500	27.500	27.500



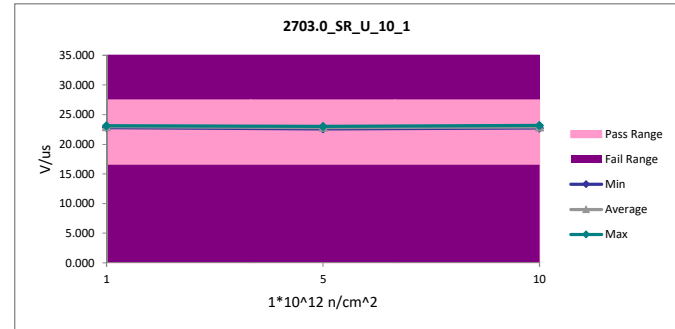
NDD Report
OPA4H014-SEP

2703.0 SR U 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	23.087	23.216	-0.129	-0.56%	1.17%
1	2	22.956	22.987	-0.031	-0.14%	0.28%
1	3	22.837	22.919	-0.082	-0.36%	0.75%
5	4	22.888	23.041	-0.153	-0.67%	1.39%
5	5	22.606	22.723	-0.117	-0.52%	1.06%
5	6	23.001	23.168	-0.167	-0.73%	1.52%
10	7	23.181	23.361	-0.180	-0.78%	1.64%
10	8	22.790	22.923	-0.133	-0.58%	1.21%
10	9	22.711	22.738	-0.027	-0.12%	0.25%
Max		23.181	23.361	-0.027	-0.12%	1.64%
Average		22.895	23.008	-0.113	-0.49%	1.03%
Min		22.606	22.723	-0.180	-0.78%	0.25%
Std Dev		0.182	0.213	0.056	0.24%	0.51%



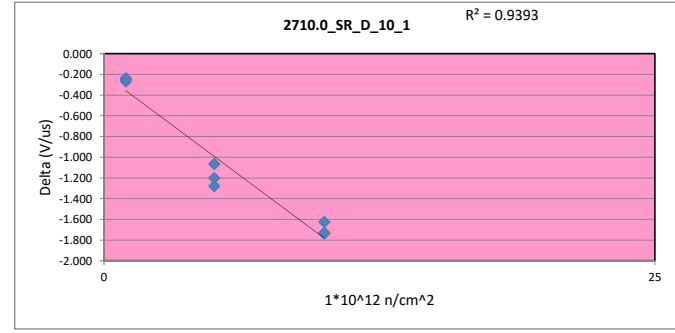
2703.0 SR U 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	22.837	22.606	22.711
Average	22.960	22.832	22.894
Max	23.087	23.001	23.181
UL	27.500	27.500	27.500



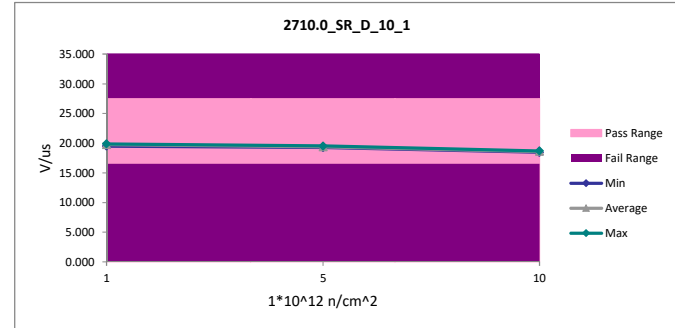
NDD Report
OPA4H014-SEP

2710.0 SR D 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	19.512	19.748	-0.236	-1.21%	2.15%
1	2	19.869	20.137	-0.268	-1.35%	2.44%
1	3	19.869	20.117	-0.248	-1.25%	2.25%
5	4	19.512	20.577	-1.065	-5.46%	9.68%
5	5	19.222	20.424	-1.202	-6.25%	10.93%
5	6	19.338	20.617	-1.279	-6.61%	11.63%
10	7	18.454	20.189	-1.735	-9.40%	15.77%
10	8	18.605	20.335	-1.730	-9.30%	15.73%
10	9	18.684	20.309	-1.625	-8.70%	14.77%
	Max	19.869	20.617	-0.236	-1.21%	15.77%
	Average	19.229	20.273	-1.043	-5.50%	9.48%
	Min	18.454	19.748	-1.735	-9.40%	2.15%
	Std Dev	0.534	0.266	0.638	3.45%	5.80%



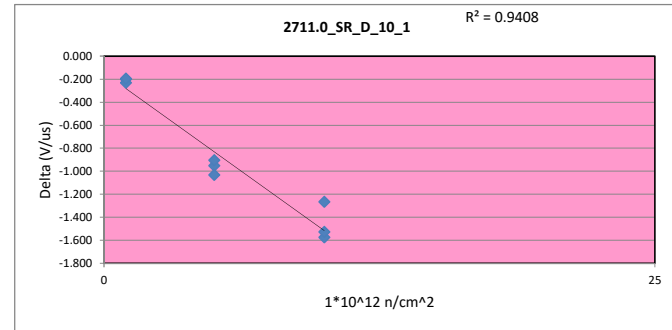
2710.0 SR D 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	19.512	19.222	18.454
Average	19.750	19.357	18.581
Max	19.869	19.512	18.684
UL	27.500	27.500	27.500



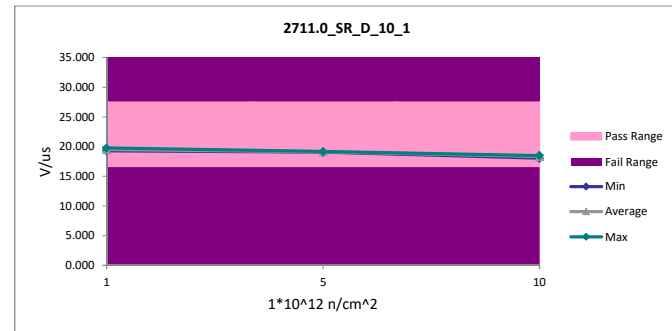
NDD Report
OPA4H014-SEP

2711.0 SR D 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	19.416	19.618	-0.202	-1.04%	1.84%
1	2	19.760	19.992	-0.232	-1.17%	2.11%
1	3	19.288	19.482	-0.194	-1.01%	1.76%
5	4	19.130	20.083	-0.953	-4.98%	8.66%
5	5	19.018	19.922	-0.904	-4.75%	8.22%
5	6	19.124	20.156	-1.032	-5.40%	9.38%
10	7	18.354	19.930	-1.576	-8.59%	14.33%
10	8	18.489	19.755	-1.266	-6.85%	11.51%
10	9	18.034	19.561	-1.527	-8.47%	13.88%
	Max	19.760	20.156	-0.194	-1.01%	14.33%
	Average	18.957	19.833	-0.876	-4.69%	7.97%
	Min	18.034	19.482	-1.576	-8.59%	1.76%
	Std Dev	0.555	0.240	0.551	3.04%	5.01%



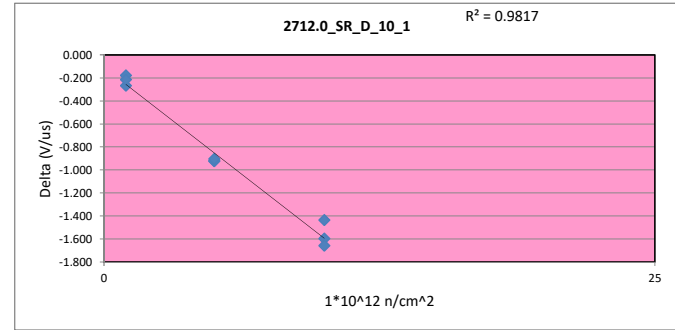
2711.0 SR D 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	19.288	19.018	18.034
Average	19.488	19.091	18.292
Max	19.760	19.130	18.489
UL	27.500	27.500	27.500



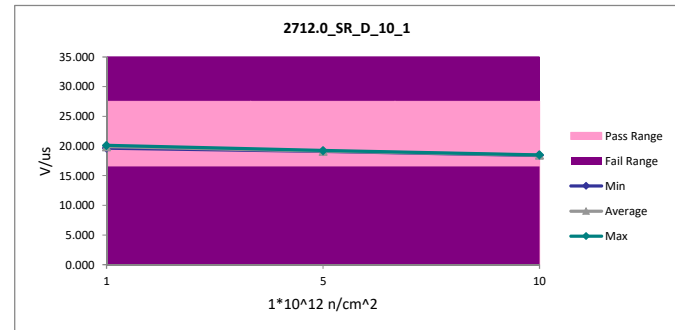
NDD Report
OPA4H014-SEP

2712.0 SR D 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	19.912	20.179	-0.267	-1.34%	2.43%
1	2	19.630	19.810	-0.180	-0.92%	1.64%
1	3	20.085	20.301	-0.216	-1.08%	1.96%
5	4	19.103	20.027	-0.924	-4.84%	8.40%
5	5	19.034	19.954	-0.920	-4.83%	8.36%
5	6	19.199	20.104	-0.905	-4.71%	8.23%
10	7	18.437	19.872	-1.435	-7.78%	13.05%
10	8	18.507	20.105	-1.598	-8.63%	14.53%
10	9	18.395	20.054	-1.659	-9.02%	15.08%
	Max	20.085	20.301	-0.180	-0.92%	15.08%
	Average	19.145	20.045	-0.900	-4.79%	8.19%
	Min	18.395	19.810	-1.659	-9.02%	1.64%
	Std Dev	0.632	0.152	0.585	3.21%	5.32%



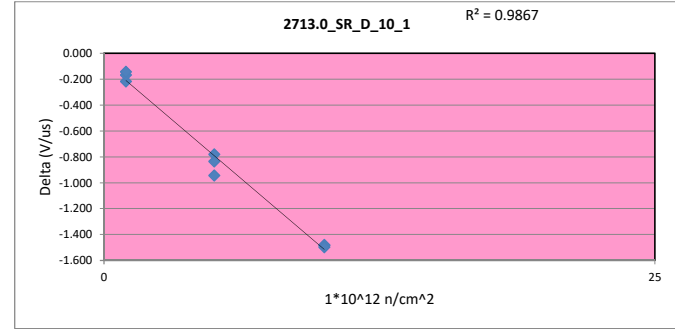
2712.0 SR D 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	19.630	19.034	18.395
Average	19.876	19.112	18.446
Max	20.085	19.199	18.507
UL	27.500	27.500	27.500



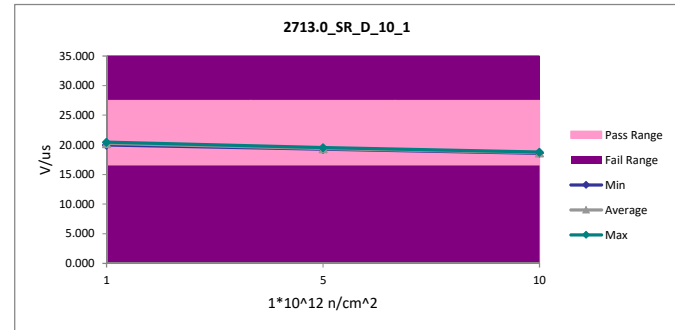
NDD Report
OPA4H014-SEP

2713.0 SR D 10 1		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V/us	V/us
Max Limit	27.5	27.5
Min Limit	16.5	16.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	20.456	20.674	-0.218	-1.07%	1.98%
1	2	19.973	20.141	-0.168	-0.84%	1.53%
1	3	20.264	20.407	-0.143	-0.71%	1.30%
5	4	19.275	20.219	-0.944	-4.90%	8.58%
5	5	19.315	20.095	-0.780	-4.04%	7.09%
5	6	19.545	20.380	-0.835	-4.27%	7.59%
10	7	18.778	20.263	-1.485	-7.91%	13.50%
10	8	18.658	20.138	-1.480	-7.93%	13.45%
10	9	18.576	20.074	-1.498	-8.06%	13.62%
Max		20.456	20.674	-0.143	-0.71%	13.62%
Average		19.427	20.266	-0.839	-4.41%	7.63%
Min		18.576	20.074	-1.498	-8.06%	1.30%
Std Dev		0.693	0.194	0.570	3.08%	5.18%



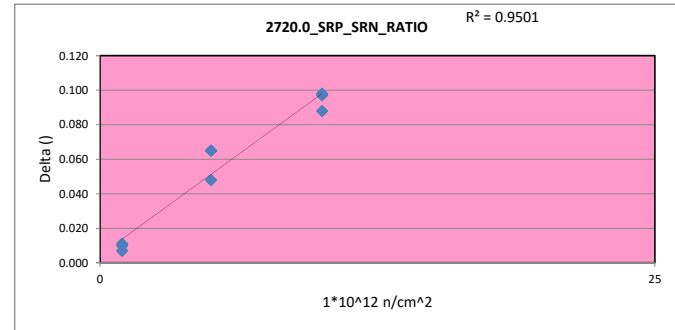
2713.0 SR D 10 1			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	27.5	V/us	
Min Limit	16.5	V/us	
1*10 ¹² n/cm ²	1	5	10
LL	16.500	16.500	16.500
Min	19.973	19.275	18.576
Average	20.231	19.378	18.671
Max	20.456	19.545	18.778
UL	27.500	27.500	27.500



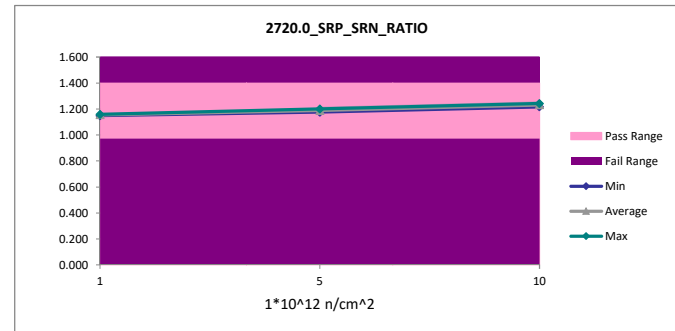
NDD Report
OPA4H014-SEP

2720.0 SRP SRN RATIO		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit		
Max Limit	1.4	1.4
Min Limit	0.97	0.97

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.149	1.138	0.011	0.96%	2.56%
1	2	1.159	1.149	0.010	0.86%	2.33%
1	3	1.157	1.150	0.007	0.61%	1.63%
5	4	1.176	1.128	0.048	4.08%	11.16%
5	5	1.201	1.136	0.065	5.41%	15.12%
5	6	1.187	1.122	0.065	5.48%	15.12%
10	7	1.234	1.137	0.097	7.86%	22.56%
10	8	1.243	1.155	0.088	7.08%	20.47%
10	9	1.217	1.119	0.098	8.05%	22.79%
	Max	1.243	1.155	0.098	8.05%	22.79%
	Average	1.191	1.137	0.054	4.49%	12.64%
	Min	1.149	1.119	0.007	0.61%	1.63%
	Std Dev	0.034	0.013	0.037	3.03%	8.71%



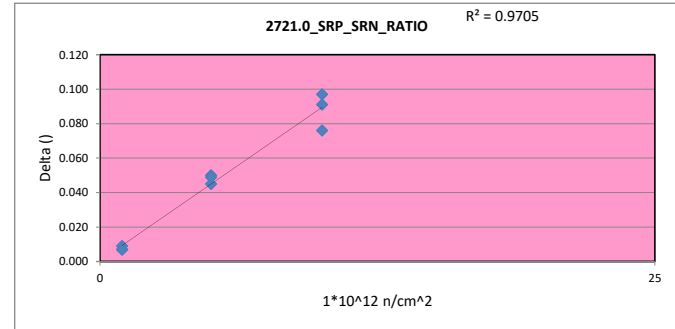
2720.0 SRP SRN RATIO			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4		
Min Limit	0.97		
1*10 ¹² n/cm ²	1	5	10
LL	0.970	0.970	0.970
Min	1.149	1.176	1.217
Average	1.155	1.188	1.231
Max	1.159	1.201	1.243
UL	1.400	1.400	1.400



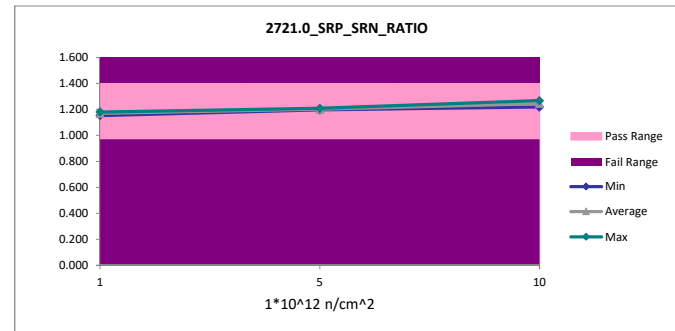
NDD Report OPA4H014-SEP

2721.0 SRP SRN RATIO		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit		
Max Limit	1.4	1.4
Min Limit	0.97	0.97

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.153	1.144	0.009	0.78%	2.09%
1	2	1.173	1.166	0.007	0.60%	1.63%
1	3	1.181	1.174	0.007	0.59%	1.63%
5	4	1.200	1.150	0.050	4.17%	11.63%
5	5	1.208	1.163	0.045	3.73%	10.47%
5	6	1.197	1.148	0.049	4.09%	11.40%
10	7	1.247	1.156	0.091	7.30%	21.16%
10	8	1.219	1.143	0.076	6.23%	17.67%
10	9	1.268	1.171	0.097	7.65%	22.56%
Max		1.268	1.174	0.097	7.65%	22.56%
Average		1.205	1.157	0.048	3.90%	11.14%
Min		1.153	1.143	0.007	0.59%	1.63%
Std Dev		0.036	0.012	0.035	2.80%	8.19%



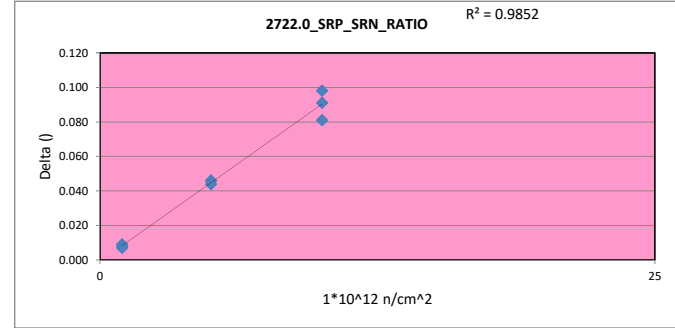
2721.0 SRP SRN RATIO			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4		
Min Limit	0.97		
1*10 ¹² n/cm ²	1	5	10
LL	0.970	0.970	0.970
Min	1.153	1.197	1.219
Average	1.169	1.202	1.245
Max	1.181	1.208	1.268
UL	1.400	1.400	1.400



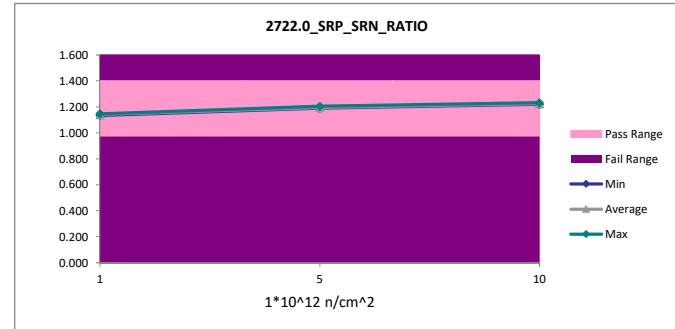
NDD Report
OPA4H014-SEP

2722.0 SRP_SRN_RATIO		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit		
Max Limit	1.4	1.4
Min Limit	0.97	0.97

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.134	1.126	0.008	0.71%	1.86%
1	2	1.147	1.138	0.009	0.78%	2.09%
1	3	1.139	1.132	0.007	0.61%	1.63%
5	4	1.205	1.159	0.046	3.82%	10.70%
5	5	1.190	1.144	0.046	3.87%	10.70%
5	6	1.188	1.144	0.044	3.70%	10.23%
10	7	1.232	1.151	0.081	6.57%	18.84%
10	8	1.223	1.132	0.091	7.44%	21.16%
10	9	1.219	1.121	0.098	8.04%	22.79%
Max		1.232	1.159	0.098	8.04%	22.79%
Average		1.186	1.139	0.048	3.95%	11.11%
Min		1.134	1.121	0.007	0.61%	1.63%
Std Dev		0.038	0.012	0.036	2.91%	8.33%



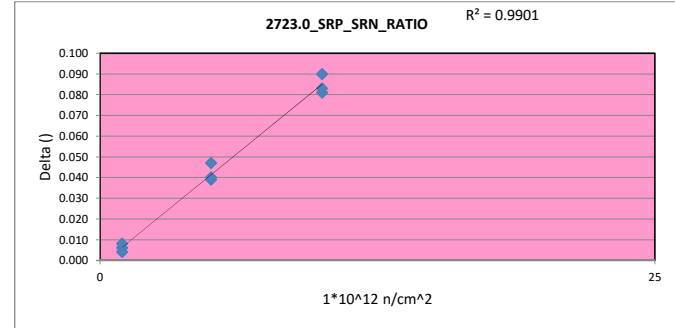
2722.0 SRP_SRN_RATIO			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4		
Min Limit	0.97		
1*10 ¹² n/cm ²	1	5	10
LL	0.970	0.970	0.970
Min	1.134	1.188	1.219
Average	1.140	1.194	1.225
Max	1.147	1.205	1.232
UL	1.400	1.400	1.400



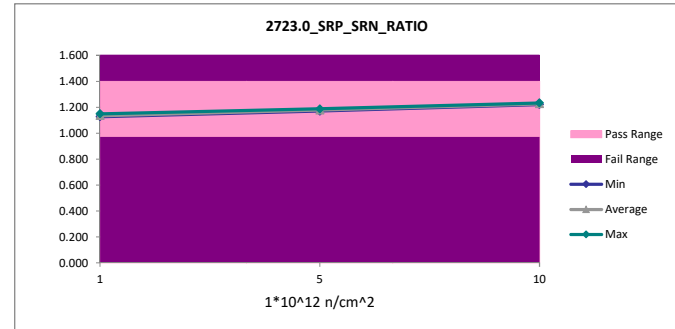
NDD Report
OPA4H014-SEP

2723.0 SRP_SRN_RATIO		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit		
Max Limit	1.4	1.4
Min Limit	0.97	0.97

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.129	1.123	0.006	0.53%	1.40%
1	2	1.149	1.141	0.008	0.70%	1.86%
1	3	1.127	1.123	0.004	0.35%	0.93%
5	4	1.187	1.140	0.047	3.96%	10.93%
5	5	1.170	1.131	0.039	3.33%	9.07%
5	6	1.177	1.137	0.040	3.40%	9.30%
10	7	1.234	1.153	0.081	6.56%	18.84%
10	8	1.221	1.138	0.083	6.80%	19.30%
10	9	1.223	1.133	0.090	7.36%	20.93%
	Max	1.234	1.153	0.090	7.36%	20.93%
	Average	1.180	1.135	0.044	3.67%	10.28%
	Min	1.127	1.123	0.004	0.35%	0.93%
	Std Dev	0.040	0.009	0.034	2.78%	7.97%



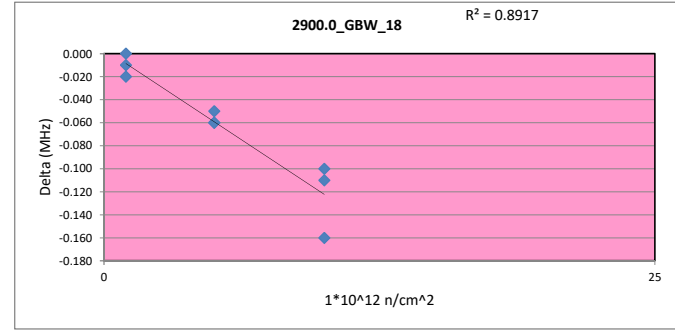
2723.0 SRP_SRN_RATIO			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.4		
Min Limit	0.97		
1*10 ¹² n/cm ²	1	5	10
LL	0.970	0.970	0.970
Min	1.127	1.170	1.221
Average	1.135	1.178	1.226
Max	1.149	1.187	1.234
UL	1.400	1.400	1.400



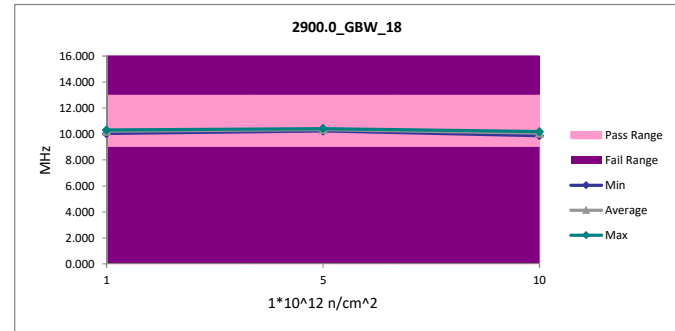
NDD Report
OPA4H014-SEP

2900.0 GBW_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	MHz	MHz
Max Limit	13	13
Min Limit	9	9

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	10.030	10.030	0.000	0.00%	0.00%
1	2	10.300	10.320	-0.020	-0.19%	0.50%
1	3	10.290	10.300	-0.010	-0.10%	0.25%
5	4	10.240	10.300	-0.060	-0.59%	1.50%
5	5	10.420	10.480	-0.060	-0.58%	1.50%
5	6	10.320	10.370	-0.050	-0.48%	1.25%
10	7	10.110	10.210	-0.100	-0.99%	2.50%
10	8	10.190	10.350	-0.160	-1.57%	4.00%
10	9	9.880	9.990	-0.110	-1.11%	2.75%
Max		10.420	10.480	0.000	0.00%	4.00%
Average		10.198	10.261	-0.063	-0.62%	1.58%
Min		9.880	9.990	-0.160	-1.57%	0.00%
Std Dev		0.167	0.160	0.052	0.52%	1.31%



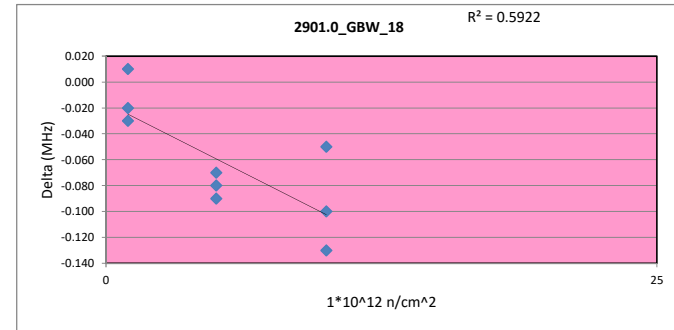
2900.0 GBW_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	13	MHz	
Min Limit	9	MHz	
1*10 ¹² n/cm ²	1	5	10
LL	9.000	9.000	9.000
Min	10.030	10.240	9.880
Average	10.207	10.327	10.060
Max	10.300	10.420	10.190
UL	13.000	13.000	13.000



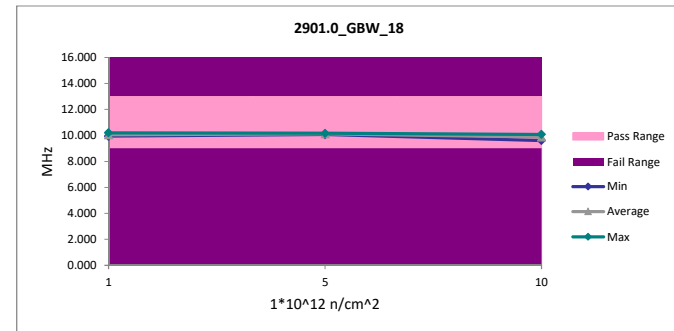
NDD Report OPA4H014-SEP

2901.0 GBW_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	MHz	MHz
Max Limit	13	13
Min Limit	9	9

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	9.950	9.940	0.010	0.10%	0.25%
1	2	10.200	10.230	-0.030	-0.29%	0.75%
1	3	9.980	10.000	-0.020	-0.20%	0.50%
5	4	10.150	10.230	-0.080	-0.79%	2.00%
5	5	10.070	10.140	-0.070	-0.70%	1.75%
5	6	10.120	10.210	-0.090	-0.89%	2.25%
10	7	10.080	10.180	-0.100	-0.99%	2.50%
10	8	9.930	9.980	-0.050	-0.50%	1.25%
10	9	9.610	9.740	-0.130	-1.35%	3.25%
Max		10.200	10.230	0.010	0.10%	3.25%
Average		10.010	10.072	-0.062	-0.62%	1.61%
Min		9.610	9.740	-0.130	-1.35%	0.25%
Std Dev		0.176	0.168	0.044	0.45%	1.00%



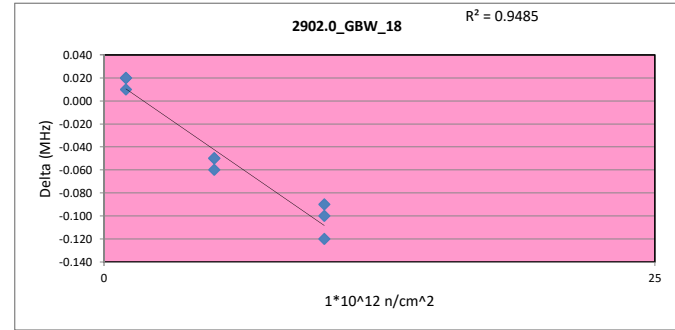
2901.0 GBW_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	13	MHz	
Min Limit	9	MHz	
1*10 ¹² n/cm ²	1	5	10
LL	9.000	9.000	9.000
Min	9.950	10.070	9.610
Average	10.043	10.113	9.873
Max	10.200	10.150	10.080
UL	13.000	13.000	13.000



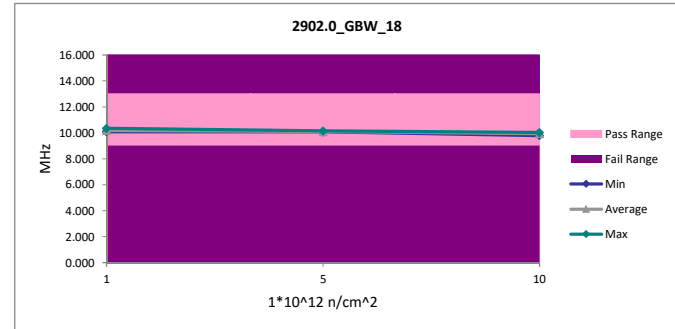
NDD Report
OPA4H014-SEP

2902.0 GBW_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	MHz	MHz
Max Limit	13	13
Min Limit	9	9

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	10.110	10.090	0.020	0.20%	0.50%
1	2	10.090	10.080	0.010	0.10%	0.25%
1	3	10.340	10.320	0.020	0.19%	0.50%
5	4	10.070	10.120	-0.050	-0.50%	1.25%
5	5	10.130	10.190	-0.060	-0.59%	1.50%
5	6	10.060	10.110	-0.050	-0.50%	1.25%
10	7	9.990	10.090	-0.100	-1.00%	2.50%
10	8	10.020	10.110	-0.090	-0.90%	2.25%
10	9	9.790	9.910	-0.120	-1.23%	3.00%
Max		10.340	10.320	0.020	0.20%	3.00%
Average		10.067	10.113	-0.047	-0.47%	1.44%
Min		9.790	9.910	-0.120	-1.23%	0.25%
Std Dev		0.144	0.107	0.053	0.53%	0.97%



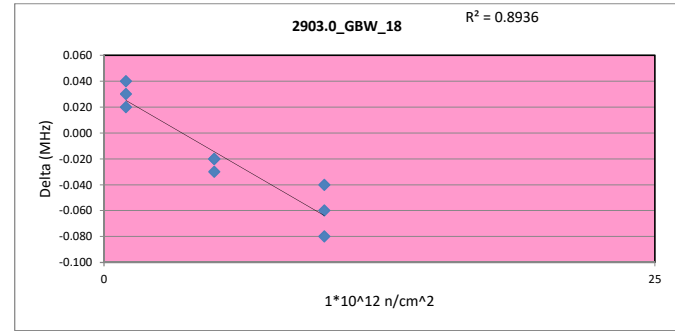
2902.0 GBW_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	13	MHz	
Min Limit	9	MHz	
1*10 ¹² n/cm ²	1	5	10
LL	9.000	9.000	9.000
Min	10.090	10.060	9.790
Average	10.180	10.087	9.933
Max	10.340	10.130	10.020
UL	13.000	13.000	13.000



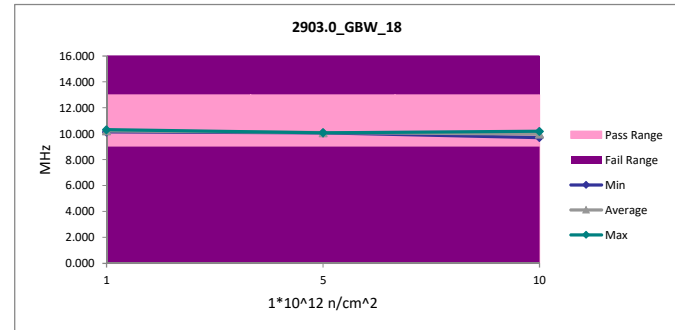
NDD Report
OPA4H014-SEP

2903.0 GBW_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	MHz	MHz
Max Limit	13	13
Min Limit	9	9

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	10.310	10.270	0.040	0.39%	1.00%
1	2	10.140	10.110	0.030	0.30%	0.75%
1	3	10.210	10.190	0.020	0.20%	0.50%
5	4	10.080	10.100	-0.020	-0.20%	0.50%
5	5	10.060	10.090	-0.030	-0.30%	0.75%
5	6	10.080	10.100	-0.020	-0.20%	0.50%
10	7	10.180	10.220	-0.040	-0.39%	1.00%
10	8	10.030	10.110	-0.080	-0.80%	2.00%
10	9	9.710	9.770	-0.060	-0.62%	1.50%
Max		10.310	10.270	0.040	0.39%	2.00%
Average		10.089	10.107	-0.018	-0.18%	0.94%
Min		9.710	9.770	-0.080	-0.80%	0.50%
Std Dev		0.167	0.142	0.041	0.41%	0.51%



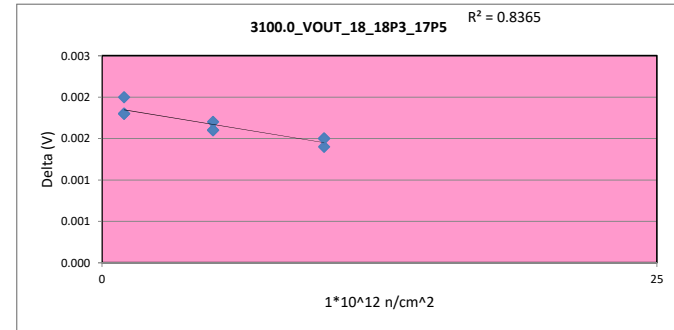
2903.0 GBW_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	13	MHz	
Min Limit	9	MHz	
1*10 ¹² n/cm ²	1	5	10
LL	9.000	9.000	9.000
Min	10.140	10.060	9.710
Average	10.220	10.073	9.973
Max	10.310	10.080	10.180
UL	13.000	13.000	13.000



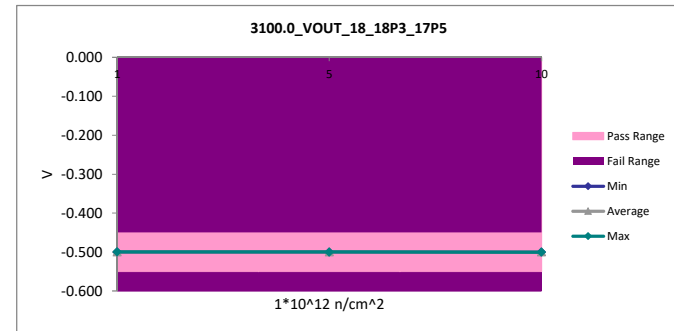
NDD Report OPA4H014-SEP

3100.0 VOUT_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.45	-0.45
Min Limit	-0.55	-0.55

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.500	-0.502	0.002	-0.36%	1.80%
1	2	-0.500	-0.502	0.002	-0.40%	2.00%
1	3	-0.500	-0.502	0.002	-0.36%	1.80%
5	4	-0.500	-0.502	0.002	-0.32%	1.60%
5	5	-0.500	-0.502	0.002	-0.34%	1.70%
5	6	-0.500	-0.502	0.002	-0.32%	1.60%
10	7	-0.500	-0.502	0.001	-0.28%	1.40%
10	8	-0.500	-0.502	0.002	-0.30%	1.50%
10	9	-0.500	-0.502	0.002	-0.30%	1.50%
Max		-0.500	-0.502	0.002	-0.28%	2.00%
Average		-0.500	-0.502	0.002	-0.33%	1.66%
Min		-0.500	-0.502	0.001	-0.40%	1.40%
Std Dev		0.000	0.000	0.000	0.04%	0.19%



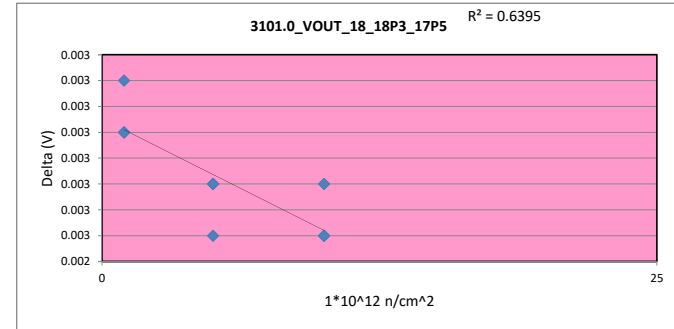
3100.0 VOUT_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.45	V	
Min Limit	-0.55	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.550	-0.550	-0.550
Min	-0.500	-0.500	-0.500
Average	-0.500	-0.500	-0.500
Max	-0.500	-0.500	-0.500
UL	-0.450	-0.450	-0.450



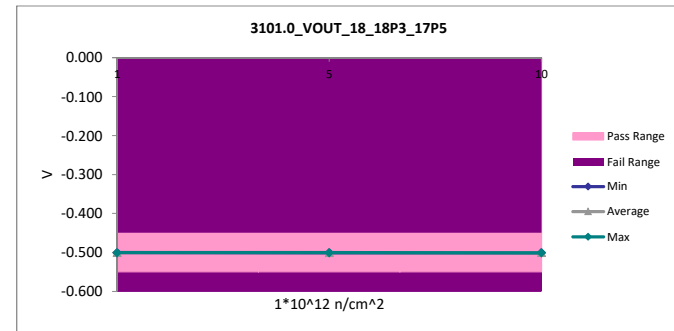
NDD Report OPA4H014-SEP

3101.0_VOUT_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.45	-0.45
Min Limit	-0.55	-0.55

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.501	-0.503	0.003	-0.54%	2.70%
1	2	-0.500	-0.503	0.003	-0.56%	2.80%
1	3	-0.501	-0.503	0.003	-0.54%	2.70%
5	4	-0.501	-0.503	0.003	-0.52%	2.60%
5	5	-0.501	-0.503	0.003	-0.52%	2.60%
5	6	-0.501	-0.503	0.003	-0.50%	2.50%
10	7	-0.501	-0.503	0.003	-0.50%	2.50%
10	8	-0.501	-0.503	0.003	-0.50%	2.50%
10	9	-0.501	-0.503	0.003	-0.52%	2.60%
Max		-0.500	-0.503	0.003	-0.50%	2.80%
Average		-0.501	-0.503	0.003	-0.52%	2.61%
Min		-0.501	-0.503	0.003	-0.56%	2.50%
Std Dev		0.000	0.000	0.000	0.02%	0.11%



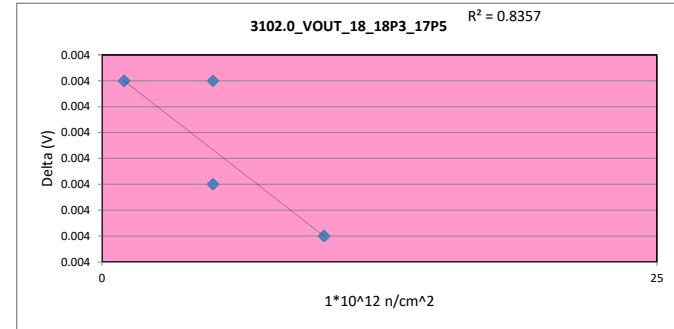
3101.0_VOUT_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.45	V	
Min Limit	-0.55	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.550	-0.550	-0.550
Min	-0.501	-0.501	-0.501
Average	-0.501	-0.501	-0.501
Max	-0.500	-0.501	-0.501
UL	-0.450	-0.450	-0.450



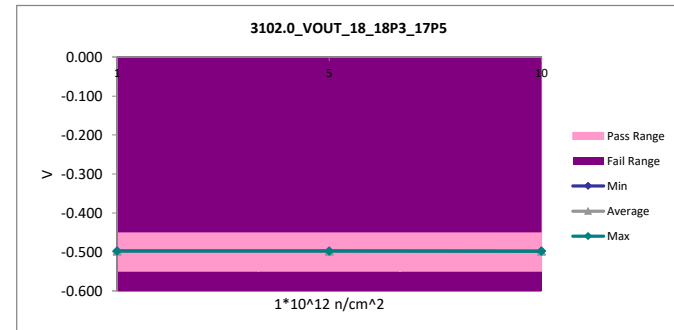
NDD Report
OPA4H014-SEP

3102.0 VOUT_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.45	-0.45
Min Limit	-0.55	-0.55

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.498	-0.502	0.004	-0.84%	4.20%
1	2	-0.498	-0.502	0.004	-0.84%	4.20%
1	3	-0.498	-0.502	0.004	-0.84%	4.20%
5	4	-0.498	-0.502	0.004	-0.80%	4.00%
5	5	-0.498	-0.502	0.004	-0.80%	4.00%
5	6	-0.498	-0.502	0.004	-0.84%	4.20%
10	7	-0.498	-0.502	0.004	-0.78%	3.90%
10	8	-0.498	-0.502	0.004	-0.78%	3.90%
10	9	-0.498	-0.502	0.004	-0.78%	3.90%
Max		-0.498	-0.502	0.004	-0.78%	4.20%
Average		-0.498	-0.502	0.004	-0.81%	4.06%
Min		-0.498	-0.502	0.004	-0.84%	3.90%
Std Dev		0.000	0.000	0.000	0.03%	0.14%



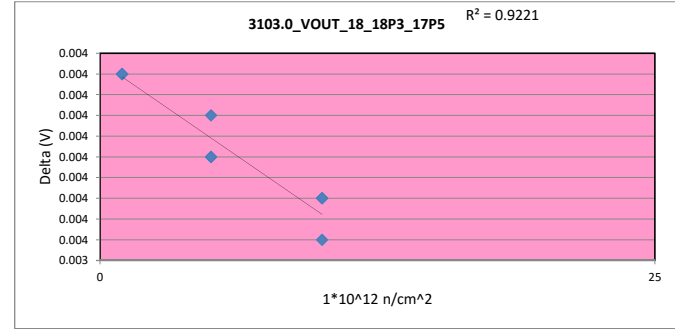
3102.0 VOUT_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.45	V	
Min Limit	-0.55	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.550	-0.550	-0.550
Min	-0.498	-0.498	-0.498
Average	-0.498	-0.498	-0.498
Max	-0.498	-0.498	-0.498
UL	-0.450	-0.450	-0.450



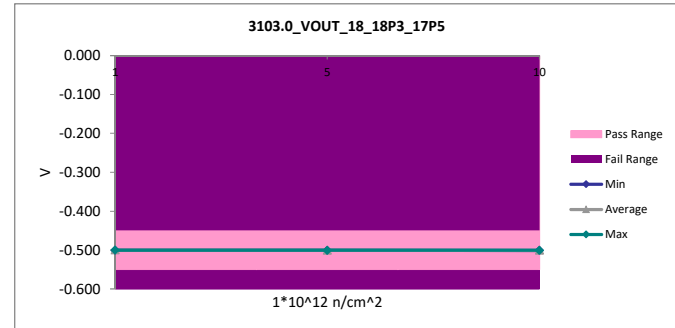
NDD Report
OPA4H014-SEP

3103.0_VOUT_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	V	V
Max Limit	-0.45	-0.45
Min Limit	-0.55	-0.55

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.500	-0.504	0.004	-0.78%	3.90%
1	2	-0.500	-0.504	0.004	-0.78%	3.90%
1	3	-0.500	-0.504	0.004	-0.78%	3.90%
5	4	-0.500	-0.504	0.004	-0.74%	3.70%
5	5	-0.501	-0.504	0.004	-0.74%	3.70%
5	6	-0.501	-0.504	0.004	-0.76%	3.80%
10	7	-0.501	-0.504	0.003	-0.70%	3.50%
10	8	-0.501	-0.504	0.004	-0.72%	3.60%
10	9	-0.501	-0.504	0.004	-0.72%	3.60%
Max		-0.500	-0.504	0.004	-0.70%	3.90%
Average		-0.500	-0.504	0.004	-0.75%	3.73%
Min		-0.501	-0.504	0.003	-0.78%	3.50%
Std Dev		0.000	0.000	0.000	0.03%	0.15%



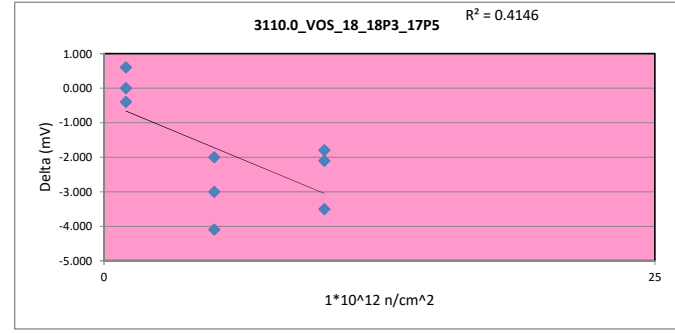
3103.0_VOUT_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.45	V	
Min Limit	-0.55	V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.550	-0.550	-0.550
Min	-0.500	-0.501	-0.501
Average	-0.500	-0.500	-0.501
Max	-0.500	-0.500	-0.501
UL	-0.450	-0.450	-0.450



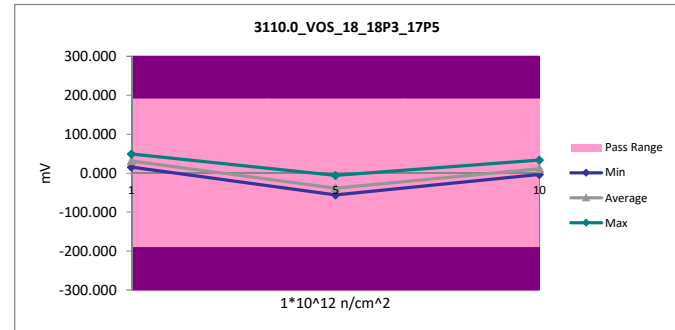
NDD Report OPA4H014-SEP

3110.0 VOS_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mV	mV
Max Limit	190	190
Min Limit	-190	-190

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	48.900	48.300	0.600	1.23%	0.16%
1	2	15.500	15.900	-0.400	-2.58%	0.11%
1	3	29.600	29.600	0.000	0.00%	0.00%
5	4	-6.100	-2.000	-4.100	67.21%	1.08%
5	5	-52.700	-50.700	-2.000	3.80%	0.53%
5	6	-56.000	-53.000	-3.000	5.36%	0.79%
10	7	3.100	5.200	-2.100	-67.74%	0.55%
10	8	33.200	35.000	-1.800	-5.42%	0.47%
10	9	-3.700	-0.200	-3.500	94.59%	0.92%
Max		48.900	48.300	0.600	94.59%	1.08%
Average		1.311	3.122	-1.811	10.72%	0.51%
Min		-56.000	-53.000	-4.100	-67.74%	0.00%
Std Dev		36.346	35.372	1.609	46.24%	0.37%



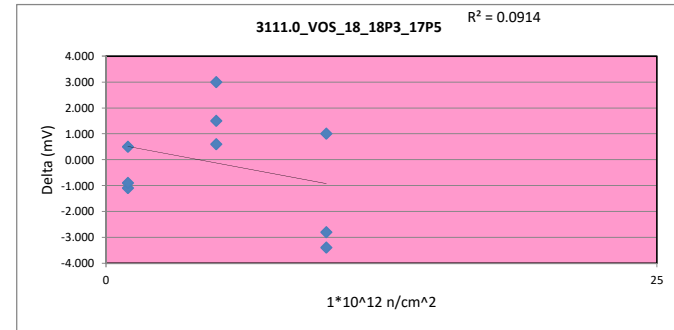
3110.0 VOS_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	190	mV	
Min Limit	-190	mV	
1*10 ¹² n/cm ²	1	5	10
LL	-190.000	-190.000	-190.000
Min	15.500	-56.000	-3.700
Average	31.333	-38.267	10.867
Max	48.900	-6.100	33.200
UL	190.000	190.000	190.000



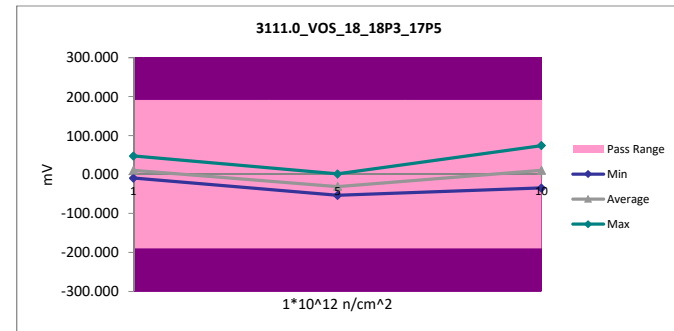
NDD Report OPA4H014-SEP

3111.0 VOS 18 18P3 17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mV	mV
Max Limit	190	190
Min Limit	-190	-190

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-8.900	-9.400	0.500	-5.62%	0.13%
1	2	-5.600	-4.500	-1.100	19.64%	0.29%
1	3	47.500	48.400	-0.900	-1.89%	0.24%
5	4	-53.600	-55.100	1.500	-2.80%	0.39%
5	5	1.500	0.900	0.600	40.00%	0.16%
5	6	-40.800	-43.800	3.000	-7.35%	0.79%
10	7	-7.800	-8.800	1.000	-12.82%	0.26%
10	8	-35.100	-31.700	-3.400	9.69%	0.89%
10	9	74.400	77.200	-2.800	-3.76%	0.74%
Max		74.400	77.200	3.000	40.00%	0.89%
Average		-3.156	-2.978	-0.178	3.90%	0.43%
Min		-53.600	-55.100	-3.400	-12.82%	0.13%
Std Dev		41.300	42.380	2.061	16.65%	0.29%



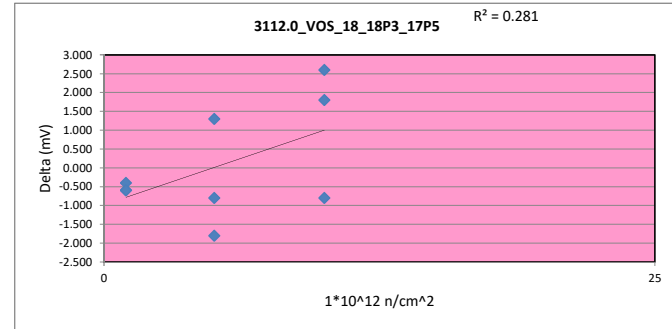
3111.0 VOS 18 18P3 17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	190	mV	
Min Limit	-190	mV	
1*10 ¹² n/cm ²	1	5	10
LL	-190.000	-190.000	-190.000
Min	-8.900	-53.600	-35.100
Average	11.000	-30.967	10.500
Max	47.500	1.500	74.400
UL	190.000	190.000	190.000



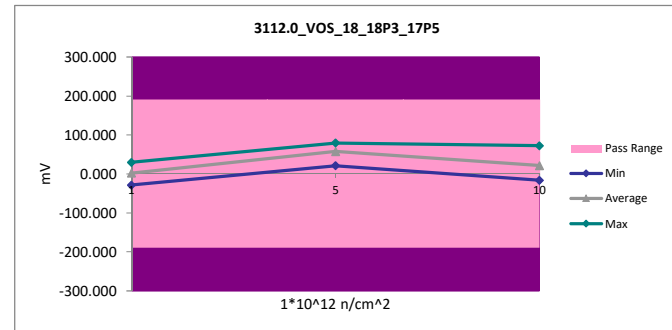
NDD Report OPA4H014-SEP

3112.0 VOS_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mV	mV
Max Limit	190	190
Min Limit	-190	-190

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	5.700	6.300	-0.600	-10.53%	0.16%
1	2	29.800	30.200	-0.400	-1.34%	0.11%
1	3	-28.600	-28.000	-0.600	2.10%	0.16%
5	4	79.300	81.100	-1.800	-2.27%	0.47%
5	5	21.100	19.800	1.300	6.16%	0.34%
5	6	73.200	74.000	-0.800	-1.09%	0.21%
10	7	72.000	70.200	1.800	2.50%	0.47%
10	8	8.200	5.600	2.600	31.71%	0.68%
10	9	-16.100	-15.300	-0.800	4.97%	0.21%
Max		79.300	81.100	2.600	31.71%	0.68%
Average		27.178	27.100	0.078	3.58%	0.31%
Min		-28.600	-28.000	-1.800	-10.53%	0.11%
Std Dev		39.833	39.945	1.459	11.63%	0.19%



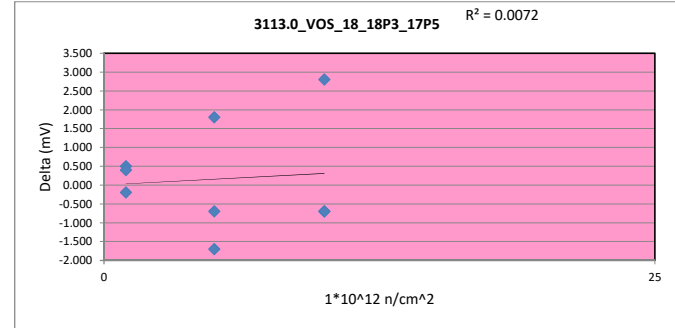
3112.0 VOS_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	190	mV	
Min Limit	-190	mV	
1*10 ¹² n/cm ²	1	5	10
LL	-190.000	-190.000	-190.000
Min	-28.600	21.100	-16.100
Average	2.300	57.867	21.367
Max	29.800	79.300	72.000
UL	190.000	190.000	190.000



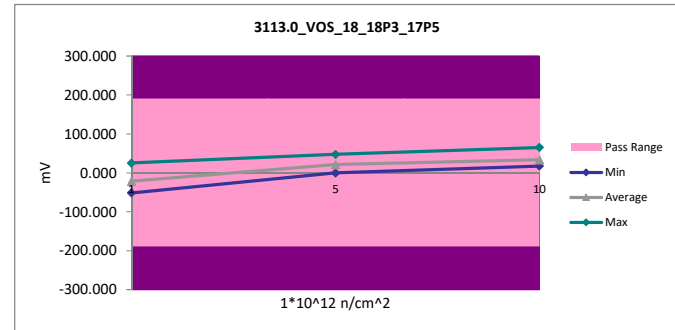
NDD Report OPA4H014-SEP

3113.0 VOS_18_18P3_17P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mV	mV
Max Limit	190	190
Min Limit	-190	-190

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-51.800	-52.300	0.500	-0.97%	0.13%
1	2	25.500	25.100	0.400	1.57%	0.11%
1	3	-38.500	-38.300	-0.200	0.52%	0.05%
5	4	17.700	19.400	-1.700	-9.60%	0.45%
5	5	-0.800	-0.100	-0.700	87.50%	0.18%
5	6	46.900	45.100	1.800	3.84%	0.47%
10	7	17.600	14.800	2.800	15.91%	0.74%
10	8	17.400	18.100	-0.700	-4.02%	0.18%
10	9	65.200	65.900	-0.700	-1.07%	0.18%
Max		65.200	65.900	2.800	87.50%	0.74%
Average		11.022	10.856	0.167	10.41%	0.28%
Min		-51.800	-52.300	-1.700	-9.60%	0.05%
Std Dev		37.248	37.201	1.398	29.71%	0.23%



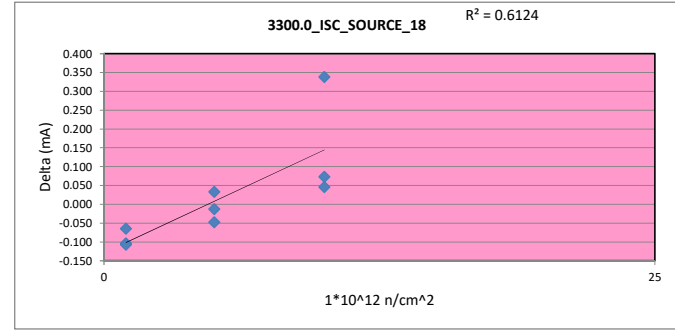
3113.0 VOS_18_18P3_17P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	190	mV	
Min Limit	-190	mV	
1*10 ¹² n/cm ²	1	5	10
LL	-190.000	-190.000	-190.000
Min	-51.800	-0.800	17.400
Average	-21.600	21.267	33.400
Max	25.500	46.900	65.200
UL	190.000	190.000	190.000



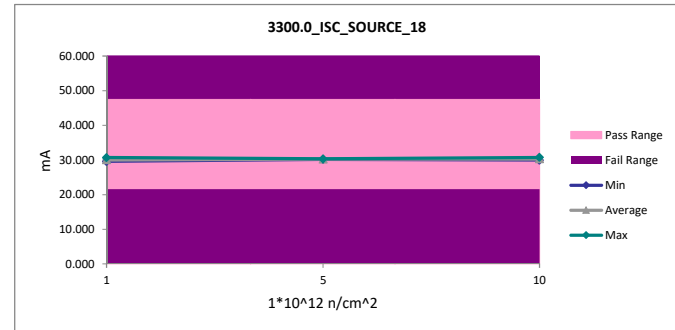
NDD Report
OPA4H014-SEP

3300.0_ISC_SOURCE_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	47.5	47.5
Min Limit	21.5	21.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	29.772	29.876	-0.104	-0.35%	0.40%
1	2	29.616	29.681	-0.065	-0.22%	0.25%
1	3	30.706	30.813	-0.107	-0.35%	0.41%
5	4	30.283	30.296	-0.013	-0.04%	0.05%
5	5	30.325	30.292	0.033	0.11%	0.13%
5	6	30.152	30.200	-0.048	-0.16%	0.18%
10	7	30.770	30.697	0.073	0.24%	0.28%
10	8	29.985	29.939	0.046	0.15%	0.18%
10	9	30.073	29.735	0.338	1.12%	1.30%
	Max	30.770	30.813	0.338	1.12%	1.30%
	Average	30.187	30.170	0.017	0.06%	0.35%
	Min	29.616	29.681	-0.107	-0.35%	0.05%
	Std Dev	0.386	0.402	0.137	0.45%	0.37%



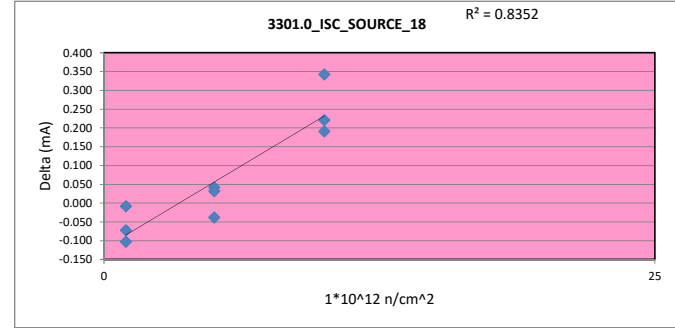
3300.0_ISC_SOURCE_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	47.5	mA	
Min Limit	21.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	21.500	21.500	21.500
Min	29.616	30.152	29.985
Average	30.031	30.253	30.276
Max	30.706	30.325	30.770
UL	47.500	47.500	47.500



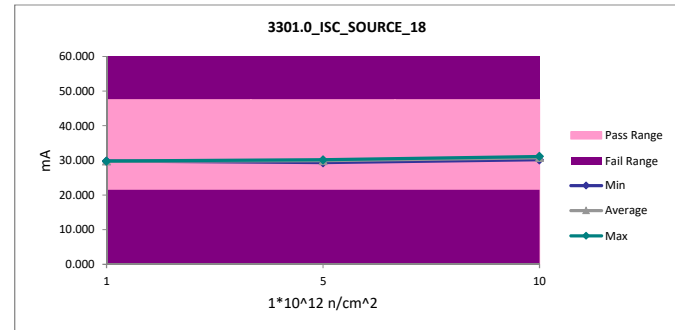
NDD Report
OPA4H014-SEP

3301.0_ISC_SOURCE_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	47.5	47.5
Min Limit	21.5	21.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	29.765	29.837	-0.072	-0.24%	0.28%
1	2	29.758	29.766	-0.008	-0.03%	0.03%
1	3	29.803	29.906	-0.103	-0.35%	0.40%
5	4	29.331	29.289	0.042	0.14%	0.16%
5	5	30.028	29.996	0.032	0.11%	0.12%
5	6	30.165	30.203	-0.038	-0.13%	0.15%
10	7	30.175	29.984	0.191	0.63%	0.73%
10	8	31.142	30.800	0.342	1.10%	1.32%
10	9	30.943	30.722	0.221	0.71%	0.85%
	Max	31.142	30.800	0.342	1.10%	1.32%
	Average	30.123	30.056	0.067	0.22%	0.45%
	Min	29.331	29.289	-0.103	-0.35%	0.03%
	Std Dev	0.583	0.470	0.151	0.49%	0.43%



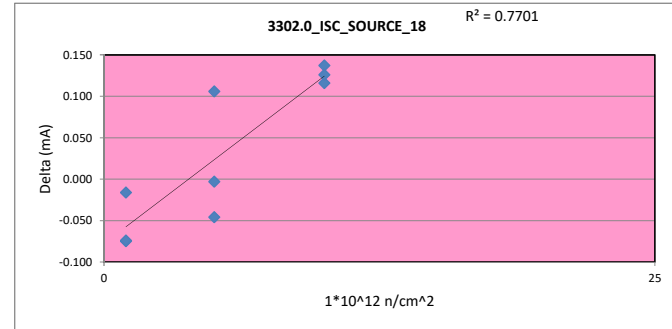
3301.0_ISC_SOURCE_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	47.5	mA	
Min Limit	21.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	21.500	21.500	21.500
Min	29.758	29.331	30.175
Average	29.775	29.841	30.753
Max	29.803	30.165	31.142
UL	47.500	47.500	47.500



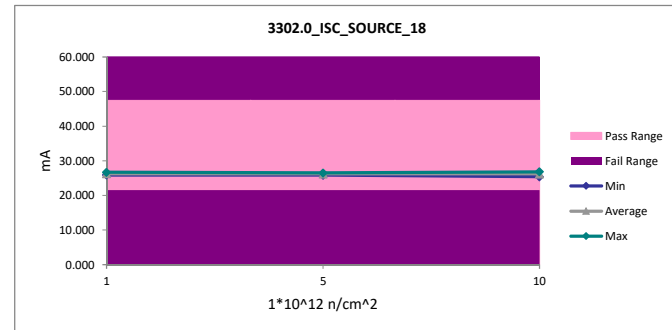
NDD Report OPA4H014-SEP

3302.0_ISC_SOURCE_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	47.5	47.5
Min Limit	21.5	21.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	25.890	25.965	-0.075	-0.29%	0.29%
1	2	26.194	26.210	-0.016	-0.06%	0.06%
1	3	26.688	26.762	-0.074	-0.28%	0.28%
5	4	26.410	26.304	0.106	0.40%	0.41%
5	5	26.485	26.531	-0.046	-0.17%	0.18%
5	6	25.832	25.835	-0.003	-0.01%	0.01%
10	7	26.825	26.709	0.116	0.43%	0.45%
10	8	25.389	25.252	0.137	0.54%	0.53%
10	9	26.510	26.384	0.126	0.48%	0.48%
Max		26.825	26.762	0.137	0.54%	0.53%
Average		26.247	26.217	0.030	0.12%	0.30%
Min		25.389	25.252	-0.075	-0.29%	0.01%
Std Dev		0.464	0.476	0.090	0.34%	0.19%



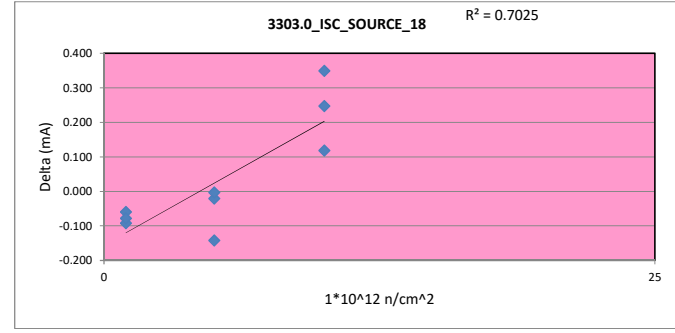
3302.0_ISC_SOURCE_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	47.5	mA	
Min Limit	21.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	21.500	21.500	21.500
Min	25.890	25.832	25.389
Average	26.257	26.242	26.241
Max	26.688	26.485	26.825
UL	47.500	47.500	47.500



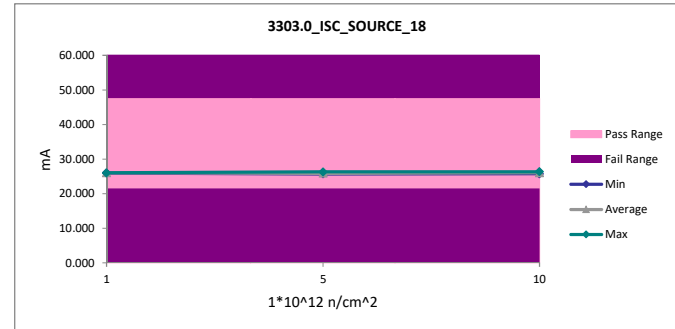
NDD Report
OPA4H014-SEP

3303.0_ISC_SOURCE_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	47.5	47.5
Min Limit	21.5	21.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	26.045	26.137	-0.092	-0.35%	0.35%
1	2	26.021	26.081	-0.060	-0.23%	0.23%
1	3	25.993	26.071	-0.078	-0.30%	0.30%
5	4	25.701	25.843	-0.142	-0.55%	0.55%
5	5	25.766	25.787	-0.021	-0.08%	0.08%
5	6	26.259	26.262	-0.003	-0.01%	0.01%
10	7	26.369	26.122	0.247	0.94%	0.95%
10	8	25.712	25.594	0.118	0.46%	0.45%
10	9	26.064	25.715	0.349	1.34%	1.34%
	Max	26.369	26.262	0.349	1.34%	1.34%
	Average	25.992	25.957	0.035	0.13%	0.47%
	Min	25.701	25.594	-0.142	-0.55%	0.01%
	Std Dev	0.234	0.227	0.167	0.64%	0.43%



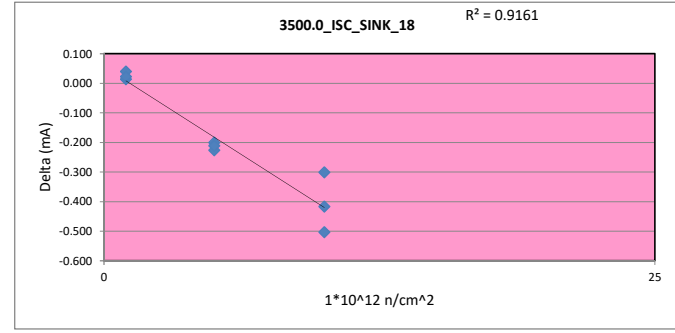
3303.0_ISC_SOURCE_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	47.5	mA	
Min Limit	21.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	21.500	21.500	21.500
Min	25.993	25.701	25.712
Average	26.020	25.909	26.048
Max	26.045	26.259	26.369
UL	47.500	47.500	47.500



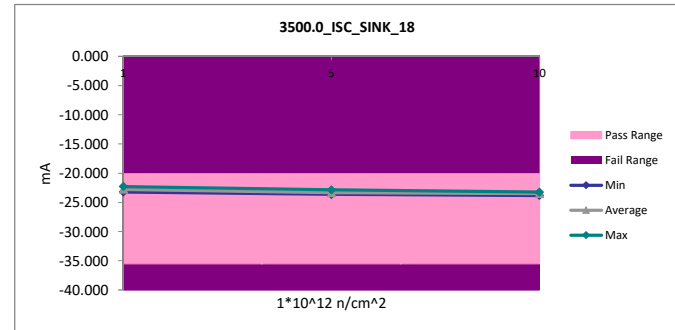
NDD Report
OPA4H014-SEP

3500.0 ISC_SINK_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-20	-20
Min Limit	-35.5	-35.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-22.289	-22.329	0.040	-0.18%	0.26%
1	2	-22.868	-22.882	0.014	-0.06%	0.09%
1	3	-23.213	-23.235	0.022	-0.09%	0.14%
5	4	-23.664	-23.464	-0.200	0.85%	1.29%
5	5	-23.505	-23.279	-0.226	0.96%	1.46%
5	6	-22.899	-22.688	-0.211	0.92%	1.36%
10	7	-23.487	-23.186	-0.301	1.28%	1.94%
10	8	-23.813	-23.396	-0.417	1.75%	2.69%
10	9	-23.234	-22.731	-0.503	2.16%	3.25%
Max		-22.289	-22.329	0.040	2.16%	3.25%
Average		-23.219	-23.021	-0.198	0.84%	1.39%
Min		-23.813	-23.464	-0.503	-0.18%	0.09%
Std Dev		0.474	0.382	0.194	0.83%	1.12%



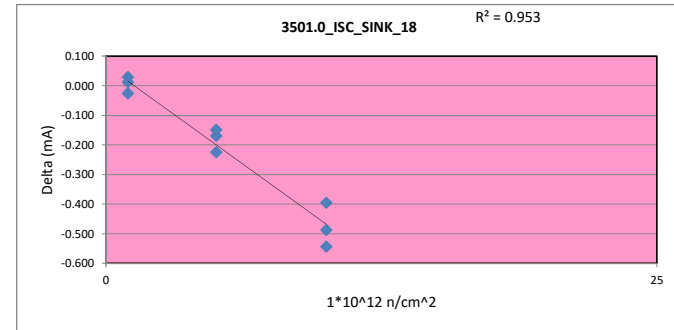
3500.0 ISC_SINK_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-20	mA	
Min Limit	-35.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-35.500	-35.500	-35.500
Min	-23.213	-23.664	-23.813
Average	-22.790	-23.356	-23.511
Max	-22.289	-22.899	-23.234
UL	-20.000	-20.000	-20.000



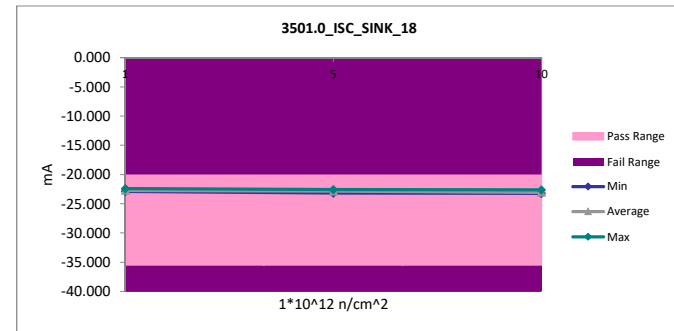
NDD Report OPA4H014-SEP

3501.0 ISC_SINK_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-20	-20
Min Limit	-35.5	-35.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-22.846	-22.875	0.029	-0.13%	0.19%
1	2	-22.874	-22.848	-0.026	0.11%	0.17%
1	3	-22.417	-22.429	0.012	-0.05%	0.08%
5	4	-22.563	-22.338	-0.225	1.00%	1.45%
5	5	-22.819	-22.649	-0.170	0.74%	1.10%
5	6	-23.174	-23.025	-0.149	0.64%	0.96%
10	7	-22.635	-22.147	-0.488	2.16%	3.15%
10	8	-23.227	-22.683	-0.544	2.34%	3.51%
10	9	-23.233	-22.837	-0.396	1.70%	2.55%
Max		-22.417	-22.147	0.029	2.34%	3.51%
Average		-22.865	-22.648	-0.217	0.95%	1.46%
Min		-23.233	-23.025	-0.544	-0.13%	0.08%
Std Dev		0.298	0.288	0.215	0.93%	1.31%



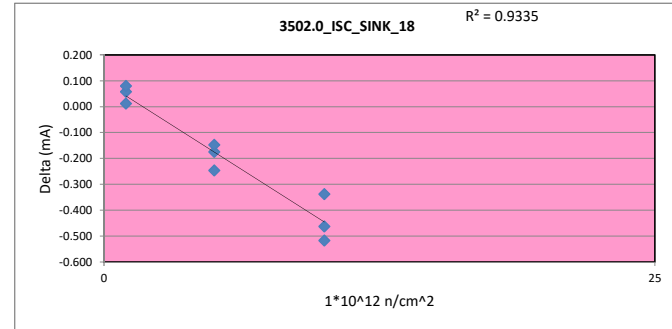
3501.0 ISC_SINK_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-20	mA	
Min Limit	-35.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-35.500	-35.500	-35.500
Min	-22.874	-23.174	-23.233
Average	-22.712	-22.852	-23.032
Max	-22.417	-22.563	-22.635
UL	-20.000	-20.000	-20.000



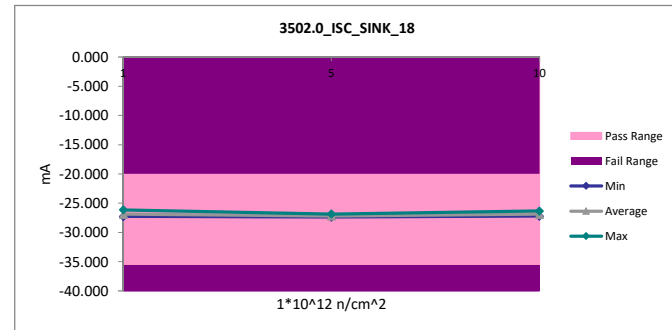
NDD Report OPA4H014-SEP

3502.0_ISC_SINK_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-20	-20
Min Limit	-35.5	-35.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-27.276	-27.334	0.058	-0.21%	0.37%
1	2	-26.152	-26.164	0.012	-0.05%	0.08%
1	3	-27.291	-27.371	0.080	-0.29%	0.52%
5	4	-27.380	-27.133	-0.247	0.90%	1.59%
5	5	-27.353	-27.178	-0.175	0.64%	1.13%
5	6	-26.869	-26.721	-0.148	0.55%	0.95%
10	7	-27.222	-26.884	-0.338	1.24%	2.18%
10	8	-26.352	-25.835	-0.517	1.96%	3.34%
10	9	-27.047	-26.584	-0.463	1.71%	2.99%
Max		-26.152	-25.835	0.080	1.96%	3.34%
Average		-26.994	-26.800	-0.193	0.72%	1.46%
Min		-27.380	-27.371	-0.517	-0.29%	0.08%
Std Dev		0.452	0.532	0.219	0.82%	1.16%



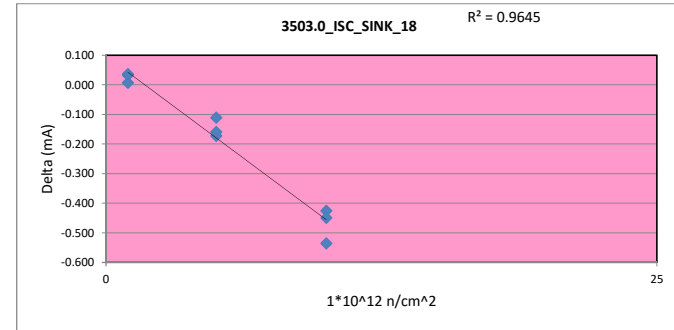
3502.0_ISC_SINK_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-20	mA	
Min Limit	-35.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-35.500	-35.500	-35.500
Min	-27.291	-27.380	-27.222
Average	-26.906	-27.201	-26.874
Max	-26.152	-26.869	-26.352
UL	-20.000	-20.000	-20.000



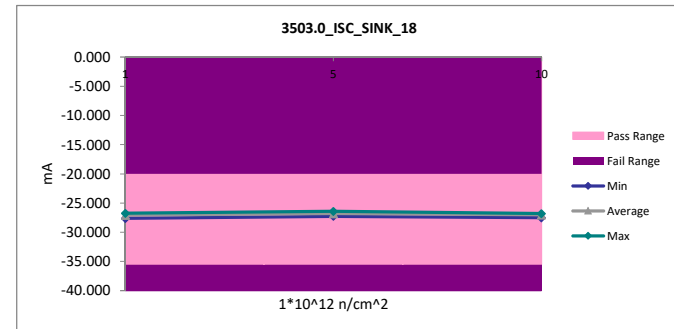
NDD Report OPA4H014-SEP

3503.0 ISC_SINK_18		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-20	-20
Min Limit	-35.5	-35.5

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-26.824	-26.857	0.033	-0.12%	0.21%
1	2	-26.777	-26.784	0.007	-0.03%	0.05%
1	3	-27.629	-27.665	0.036	-0.13%	0.23%
5	4	-27.277	-27.166	-0.111	0.41%	0.72%
5	5	-26.775	-26.603	-0.172	0.64%	1.11%
5	6	-26.416	-26.257	-0.159	0.60%	1.03%
10	7	-27.554	-27.018	-0.536	1.95%	3.46%
10	8	-26.829	-26.403	-0.426	1.59%	2.75%
10	9	-26.816	-26.367	-0.449	1.67%	2.90%
Max		-26.416	-26.257	0.036	1.95%	3.46%
Average		-26.989	-26.791	-0.197	0.73%	1.38%
Min		-27.629	-27.665	-0.536	-0.13%	0.05%
Std Dev		0.405	0.449	0.221	0.81%	1.30%



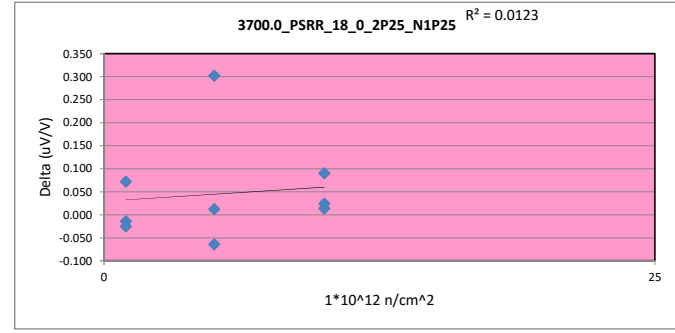
3503.0 ISC_SINK_18			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-20	mA	
Min Limit	-35.5	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-35.500	-35.500	-35.500
Min	-27.629	-27.277	-27.554
Average	-27.077	-26.823	-27.066
Max	-26.777	-26.416	-26.816
UL	-20.000	-20.000	-20.000



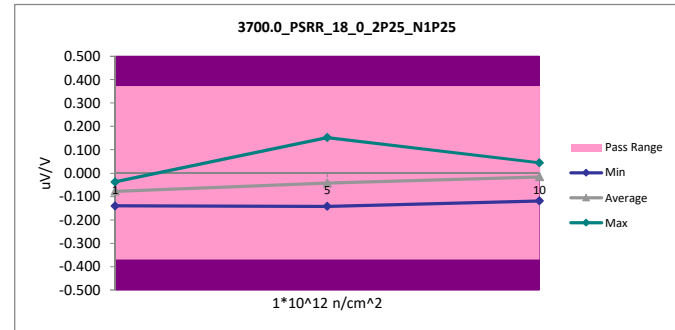
NDD Report
OPA4H014-SEP

3700.0 PSRR_18_0_2P25_N1P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.37	0.37
Min Limit	-0.37	-0.37

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.056	-0.042	-0.014	25.00%	1.89%
1	2	-0.037	-0.109	0.072	-194.59%	9.73%
1	3	-0.140	-0.115	-0.025	17.86%	3.38%
5	4	-0.142	-0.154	0.012	-8.45%	1.62%
5	5	0.152	-0.150	0.302	198.68%	40.81%
5	6	-0.140	-0.076	-0.064	45.71%	8.65%
10	7	-0.119	-0.143	0.024	-20.17%	3.24%
10	8	0.044	0.030	0.014	31.82%	1.89%
10	9	0.026	-0.064	0.090	346.15%	12.16%
Max		0.152	0.030	0.302	346.15%	40.81%
Average		-0.046	-0.091	0.046	49.11%	9.26%
Min		-0.142	-0.154	-0.064	-194.59%	1.62%
Std Dev		0.103	0.060	0.107	149.99%	12.46%



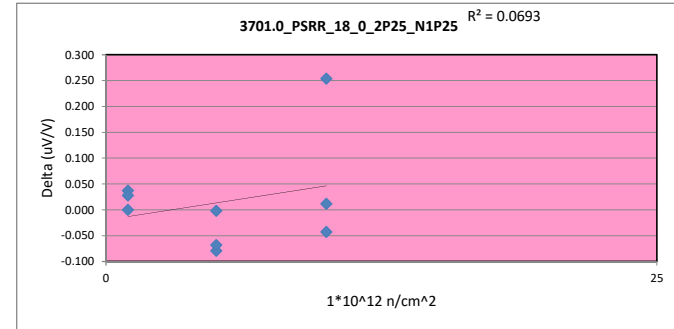
3700.0 PSRR_18_0_2P25_N1P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.37	uV/V	
Min Limit	-0.37	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.370	-0.370	-0.370
Min	-0.140	-0.142	-0.119
Average	-0.078	-0.043	-0.016
Max	-0.037	0.152	0.044
UL	0.370	0.370	0.370



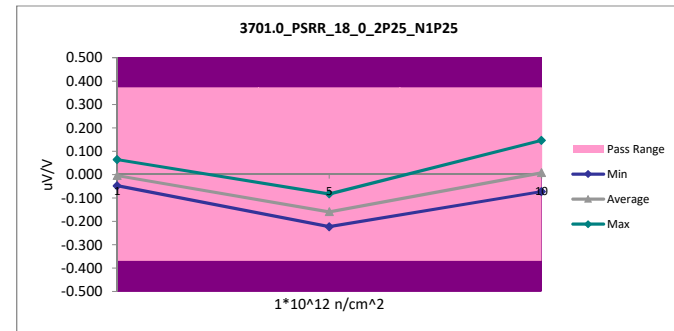
NDD Report OPA4H014-SEP

3701.0 PSRR 18_0_2P25_N1P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.37	0.37
Min Limit	-0.37	-0.37

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.030	-0.030	0.000	0.00%	0.00%
1	2	-0.048	-0.085	0.037	-77.08%	5.00%
1	3	0.064	0.036	0.028	43.75%	3.78%
5	4	-0.223	-0.144	-0.079	35.43%	10.68%
5	5	-0.173	-0.105	-0.068	39.31%	9.19%
5	6	-0.083	-0.081	-0.002	2.41%	0.27%
10	7	0.146	-0.108	0.254	173.97%	34.32%
10	8	-0.073	-0.030	-0.043	58.90%	5.81%
10	9	-0.050	-0.062	0.012	-24.00%	1.62%
Max		0.146	0.036	0.254	173.97%	34.32%
Average		-0.052	-0.068	0.015	28.08%	7.85%
Min		-0.223	-0.144	-0.079	-77.08%	0.00%
Std Dev		0.111	0.054	0.098	68.81%	10.59%



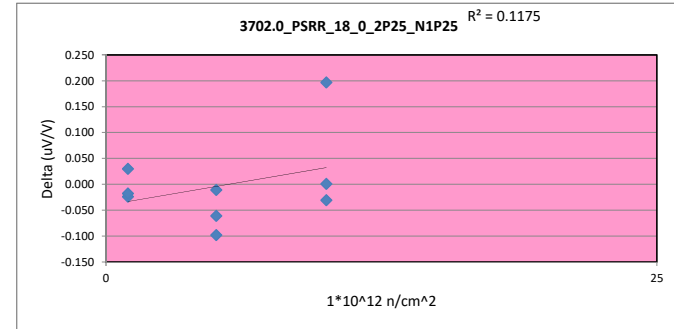
3701.0 PSRR 18_0_2P25_N1P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.37	uV/V	
Min Limit	-0.37	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.370	-0.370	-0.370
Min	-0.048	-0.223	-0.073
Average	-0.005	-0.160	0.008
Max	0.064	-0.083	0.146
UL	0.370	0.370	0.370



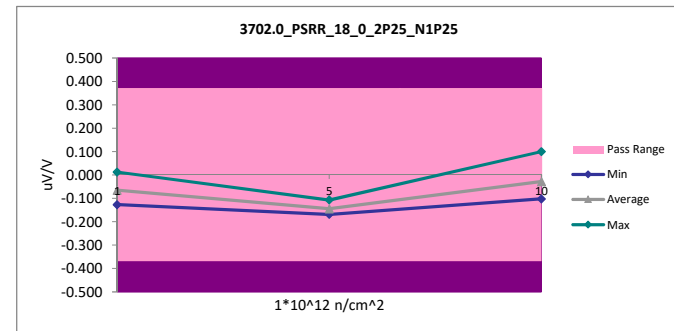
NDD Report OPA4H014-SEP

3702.0 PSRR 18_0_2P25_N1P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.37	0.37
Min Limit	-0.37	-0.37

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.013	-0.017	0.030	230.77%	4.05%
1	2	-0.083	-0.059	-0.024	28.92%	3.24%
1	3	-0.127	-0.109	-0.018	14.17%	2.43%
5	4	-0.107	-0.009	-0.098	91.59%	13.24%
5	5	-0.159	-0.098	-0.061	38.36%	8.24%
5	6	-0.169	-0.158	-0.011	6.51%	1.49%
10	7	0.100	-0.097	0.197	197.00%	26.62%
10	8	-0.083	-0.052	-0.031	37.35%	4.19%
10	9	-0.102	-0.103	0.001	-0.98%	0.14%
Max		0.100	-0.009	0.197	230.77%	26.62%
Average		-0.080	-0.078	-0.002	71.52%	7.07%
Min		-0.169	-0.158	-0.098	-0.98%	0.14%
Std Dev		0.086	0.048	0.083	85.41%	8.33%



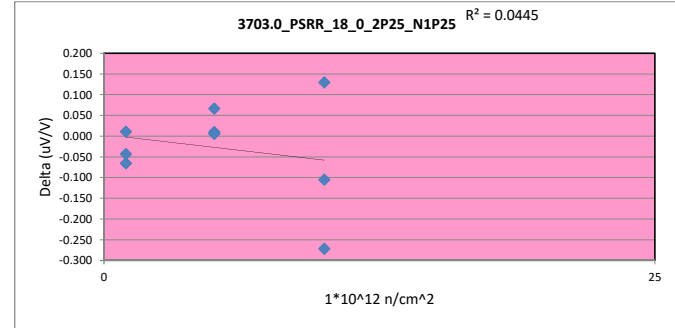
3702.0 PSRR 18_0_2P25_N1P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.37	uV/V	
Min Limit	-0.37	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.370	-0.370	-0.370
Min	-0.127	-0.169	-0.102
Average	-0.066	-0.145	-0.028
Max	0.013	-0.107	0.100
UL	0.370	0.370	0.370



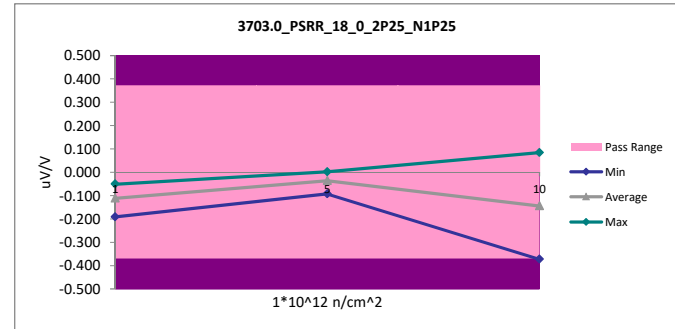
NDD Report
OPA4H014-SEP

3703.0 PSRR 18_0_2P25_N1P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.37	0.37
Min Limit	-0.37	-0.37

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.192	-0.203	0.011	-5.73%	1.49%
1	2	-0.096	-0.053	-0.043	44.79%	5.81%
1	3	-0.051	0.015	-0.066	129.41%	8.92%
5	4	0.002	-0.064	0.066	3300.00%	8.92%
5	5	-0.093	-0.103	0.010	-10.75%	1.35%
5	6	-0.019	-0.024	0.005	-26.32%	0.68%
10	7	0.084	-0.046	0.130	154.76%	17.57%
10	8	-0.146	-0.041	-0.105	71.92%	14.19%
10	9	-0.373	-0.101	-0.272	72.92%	36.76%
	Max	0.084	0.015	0.130	3300.00%	36.76%
	Average	-0.098	-0.069	-0.029	414.56%	10.63%
	Min	-0.373	-0.203	-0.272	-26.32%	0.68%
	Std Dev	0.132	0.062	0.115	1083.82%	11.41%



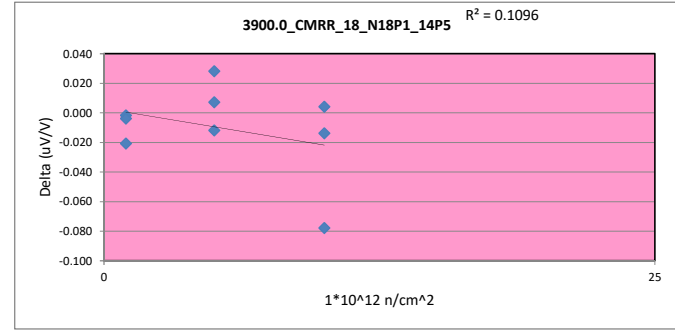
3703.0 PSRR 18_0_2P25_N1P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.37	uV/V	
Min Limit	-0.37	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.370	-0.370	-0.370
Min	-0.192	-0.093	-0.373
Average	-0.113	-0.037	-0.145
Max	-0.051	0.002	0.084
UL	0.370	0.370	0.370



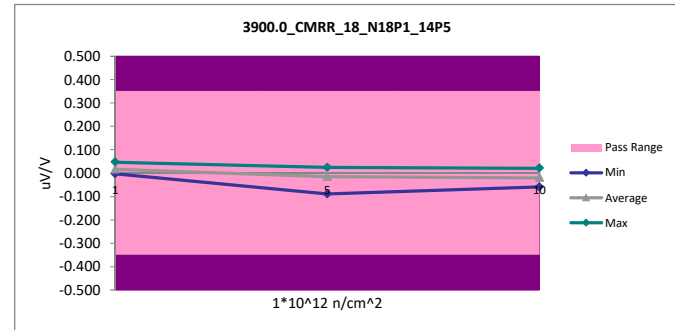
NDD Report
OPA4H014-SEP

3900.0_CMRR_18_N18P1_14P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.35	0.35
Min Limit	-0.35	-0.35

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.047	0.049	-0.002	-4.26%	0.29%
1	2	-0.003	0.001	-0.004	133.33%	0.57%
1	3	0.005	0.026	-0.021	-420.00%	3.00%
5	4	0.024	-0.004	0.028	116.67%	4.00%
5	5	0.017	0.010	0.007	41.18%	1.00%
5	6	-0.089	-0.077	-0.012	13.48%	1.71%
10	7	0.021	0.017	0.004	19.05%	0.57%
10	8	-0.021	-0.007	-0.014	66.67%	2.00%
10	9	-0.060	0.018	-0.078	130.00%	11.14%
Max		0.047	0.049	0.028	133.33%	11.14%
Average		-0.007	0.004	-0.010	10.68%	2.70%
Min		-0.089	-0.077	-0.078	-420.00%	0.29%
Std Dev		0.043	0.035	0.029	169.69%	3.40%



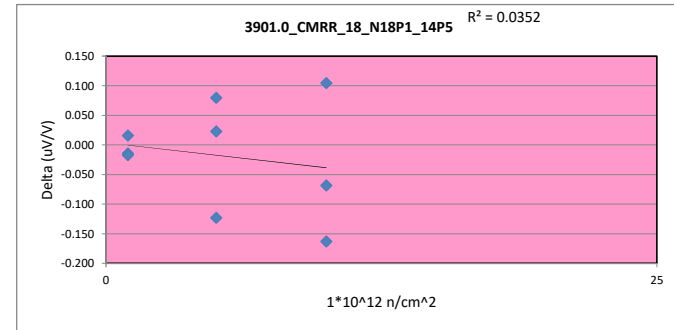
3900.0_CMRR_18_N18P1_14P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.35	uV/V	
Min Limit	-0.35	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.350	-0.350	-0.350
Min	-0.003	-0.089	-0.060
Average	0.016	-0.016	-0.020
Max	0.047	0.024	0.021
UL	0.350	0.350	0.350



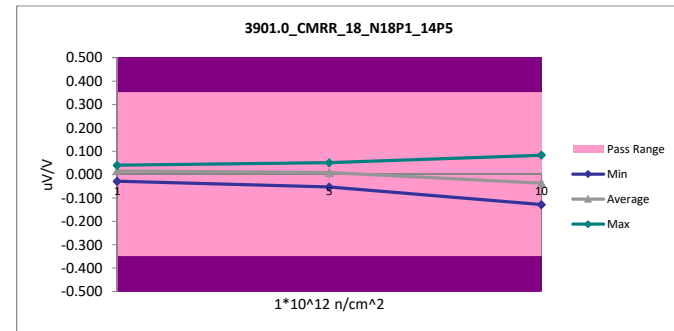
NDD Report OPA4H014-SEP

3901.0_CMRR_18_N18P1_14P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.35	0.35
Min Limit	-0.35	-0.35

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.037	0.052	-0.015	-40.54%	2.14%
1	2	0.040	0.025	0.015	37.50%	2.14%
1	3	-0.029	-0.011	-0.018	62.07%	2.57%
5	4	0.027	0.005	0.022	81.48%	3.14%
5	5	-0.054	0.070	-0.124	229.63%	17.71%
5	6	0.050	-0.029	0.079	158.00%	11.29%
10	7	-0.129	-0.060	-0.069	53.49%	9.86%
10	8	0.083	-0.021	0.104	125.30%	14.86%
10	9	-0.065	0.099	-0.164	252.31%	23.43%
Max		0.083	0.099	0.104	252.31%	23.43%
Average		-0.004	0.014	-0.019	106.58%	9.68%
Min		-0.129	-0.060	-0.164	-40.54%	2.14%
Std Dev		0.068	0.051	0.088	94.35%	7.83%



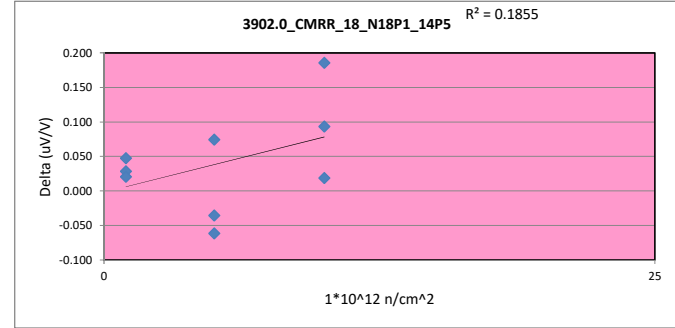
3901.0_CMRR_18_N18P1_14P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.35	uV/V	
Min Limit	-0.35	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.350	-0.350	-0.350
Min	-0.029	-0.054	-0.129
Average	0.016	0.008	-0.037
Max	0.040	0.050	0.083
UL	0.350	0.350	0.350



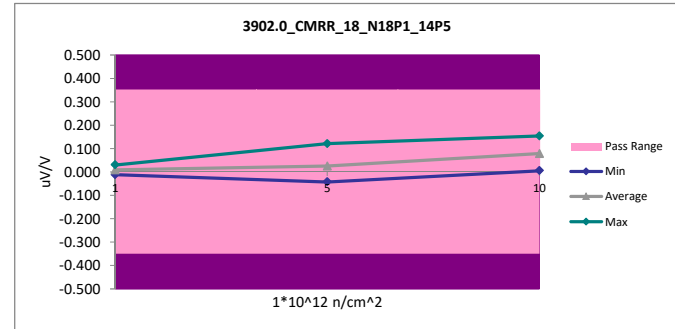
NDD Report
OPA4H014-SEP

3902.0_CMRR_18_N18P1_14P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.35	0.35
Min Limit	-0.35	-0.35

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.012	-0.040	0.028	-233.33%	4.00%
1	2	0.008	-0.012	0.020	250.00%	2.86%
1	3	0.030	-0.017	0.047	156.67%	6.71%
5	4	0.120	0.046	0.074	61.67%	10.57%
5	5	-0.043	-0.007	-0.036	83.72%	5.14%
5	6	-0.002	0.060	-0.062	3100.00%	8.86%
10	7	0.154	-0.031	0.185	120.13%	26.43%
10	8	0.005	-0.013	0.018	360.00%	2.57%
10	9	0.076	-0.017	0.093	122.37%	13.29%
	Max	0.154	0.060	0.185	3100.00%	26.43%
	Average	0.037	-0.003	0.041	446.80%	8.94%
	Min	-0.043	-0.040	-0.062	-233.33%	2.57%
	Std Dev	0.066	0.034	0.073	1007.76%	7.49%



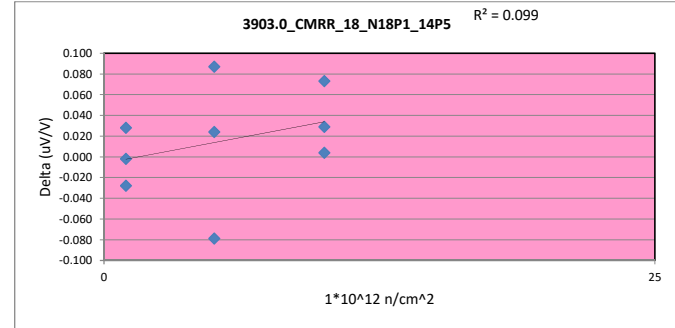
3902.0_CMRR_18_N18P1_14P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.35	uV/V	
Min Limit	-0.35	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.350	-0.350	-0.350
Min	-0.012	-0.043	0.005
Average	0.009	0.025	0.078
Max	0.030	0.120	0.154
UL	0.350	0.350	0.350



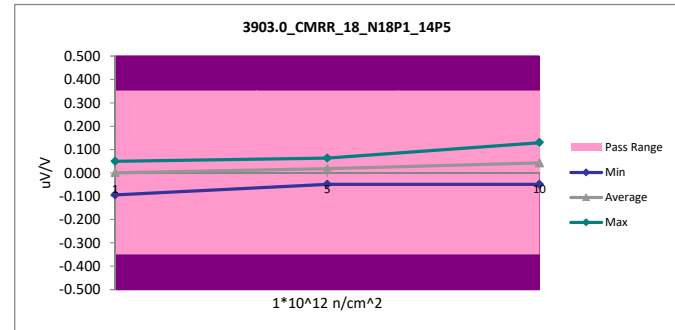
NDD Report
OPA4H014-SEP

3903.0_CMRR_18_N18P1_14P5		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	uV/V	uV/V
Max Limit	0.35	0.35
Min Limit	-0.35	-0.35

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.047	0.049	-0.002	-4.26%	0.29%
1	2	0.049	0.021	0.028	57.14%	4.00%
1	3	-0.095	-0.067	-0.028	29.47%	4.00%
5	4	0.038	0.014	0.024	63.16%	3.43%
5	5	0.062	-0.025	0.087	140.32%	12.43%
5	6	-0.050	0.029	-0.079	158.00%	11.29%
10	7	0.047	-0.026	0.073	155.32%	10.43%
10	8	-0.050	-0.079	0.029	-58.00%	4.14%
10	9	0.129	0.125	0.004	3.10%	0.57%
Max		0.129	0.125	0.087	158.00%	12.43%
Average		0.020	0.005	0.015	60.47%	5.62%
Min		-0.095	-0.079	-0.079	-58.00%	0.29%
Std Dev		0.070	0.063	0.050	76.96%	4.58%



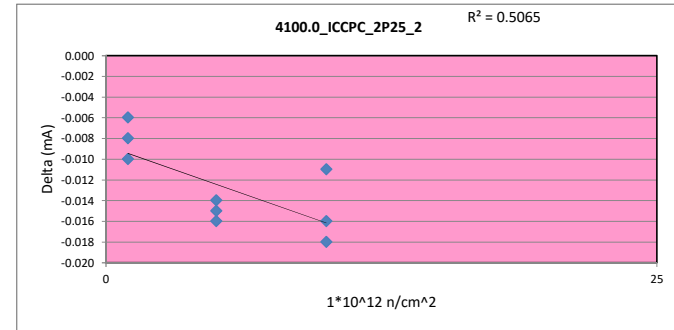
3903.0_CMRR_18_N18P1_14P5			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.35	uV/V	
Min Limit	-0.35	uV/V	
1*10 ¹² n/cm ²	1	5	10
LL	-0.350	-0.350	-0.350
Min	-0.095	-0.050	-0.050
Average	0.000	0.017	0.042
Max	0.049	0.062	0.129
UL	0.350	0.350	0.350



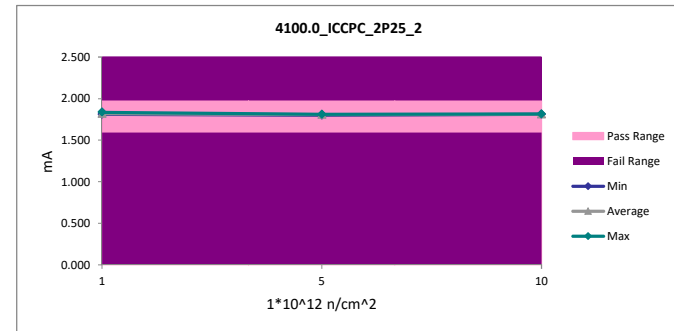
NDD Report OPA4H014-SEP

4100.0_ICCPC_2P25_2		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	1.97	1.97
Min Limit	1.59	1.59

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	1.810	1.820	-0.010	-0.55%	2.63%
1	2	1.810	1.816	-0.006	-0.33%	1.58%
1	3	1.836	1.844	-0.008	-0.44%	2.11%
5	4	1.810	1.826	-0.016	-0.88%	4.21%
5	5	1.809	1.823	-0.014	-0.77%	3.68%
5	6	1.800	1.815	-0.015	-0.83%	3.95%
10	7	1.812	1.830	-0.018	-0.99%	4.74%
10	8	1.810	1.826	-0.016	-0.88%	4.21%
10	9	1.813	1.824	-0.011	-0.61%	2.89%
Max		1.836	1.844	-0.006	-0.33%	4.74%
Average		1.812	1.825	-0.013	-0.70%	3.33%
Min		1.800	1.815	-0.018	-0.99%	1.58%
Std Dev		0.010	0.009	0.004	0.23%	1.08%



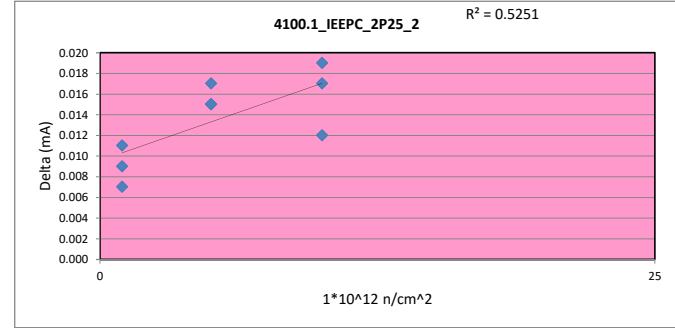
4100.0_ICCPC_2P25_2			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	1.97	mA	
Min Limit	1.59	mA	
1*10 ¹² n/cm ²	1	5	10
LL	1.590	1.590	1.590
Min	1.810	1.800	1.810
Average	1.819	1.806	1.812
Max	1.836	1.810	1.813
UL	1.970	1.970	1.970



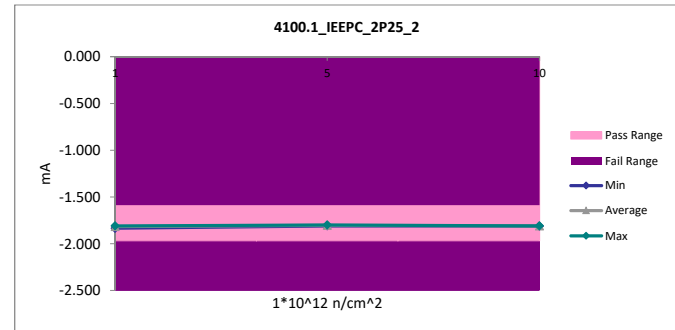
NDD Report OPA4H014-SEP

4100.1_IEEPC_2P25_2		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-1.59	-1.59
Min Limit	-1.97	-1.97

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-1.809	-1.820	0.011	-0.61%	2.89%
1	2	-1.809	-1.816	0.007	-0.39%	1.84%
1	3	-1.835	-1.844	0.009	-0.49%	2.37%
5	4	-1.809	-1.826	0.017	-0.94%	4.47%
5	5	-1.808	-1.823	0.015	-0.83%	3.95%
5	6	-1.799	-1.814	0.015	-0.83%	3.95%
10	7	-1.811	-1.830	0.019	-1.05%	5.00%
10	8	-1.809	-1.826	0.017	-0.94%	4.47%
10	9	-1.812	-1.824	0.012	-0.66%	3.16%
Max		-1.799	-1.814	0.019	-0.39%	5.00%
Average		-1.811	-1.825	0.014	-0.75%	3.57%
Min		-1.835	-1.844	0.007	-1.05%	1.84%
Std Dev		0.010	0.009	0.004	0.22%	1.06%



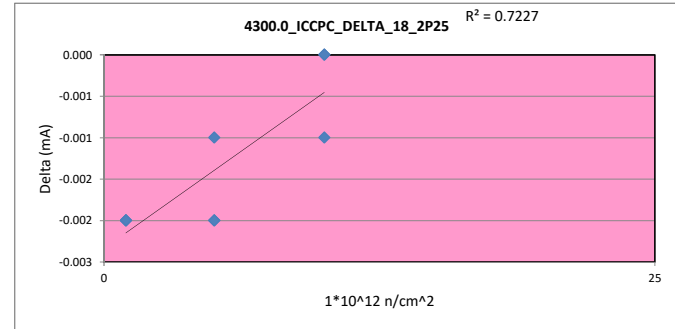
4100.1_IEEPC_2P25_2			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-1.59	mA	
Min Limit	-1.97	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-1.970	-1.970	-1.970
Min	-1.835	-1.809	-1.812
Average	-1.818	-1.805	-1.811
Max	-1.809	-1.799	-1.809
UL	-1.590	-1.590	-1.590



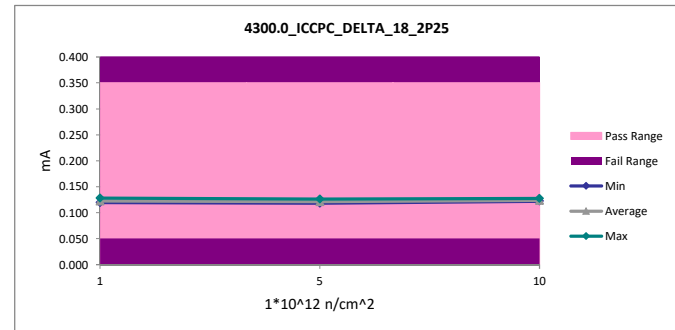
NDD Report OPA4H014-SEP

4300.0 ICCPC DELTA 18 2P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	0.35	0.35
Min Limit	0.05	0.05

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.119	0.121	-0.002	-1.68%	0.67%
1	2	0.120	0.122	-0.002	-1.67%	0.67%
1	3	0.128	0.130	-0.002	-1.56%	0.67%
5	4	0.120	0.121	-0.001	-0.83%	0.33%
5	5	0.126	0.128	-0.002	-1.59%	0.67%
5	6	0.118	0.120	-0.002	-1.69%	0.67%
10	7	0.122	0.123	-0.001	-0.82%	0.33%
10	8	0.122	0.122	0.000	0.00%	0.00%
10	9	0.127	0.127	0.000	0.00%	0.00%
Max		0.128	0.130	0.000	0.00%	0.67%
Average		0.122	0.124	-0.001	-1.09%	0.44%
Min		0.118	0.120	-0.002	-1.69%	0.00%
Std Dev		0.004	0.004	0.001	0.71%	0.29%



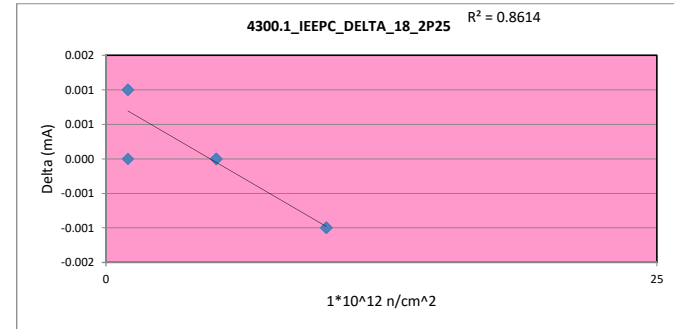
4300.0 ICCPC DELTA 18 2P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.35	mA	
Min Limit	0.05	mA	
1*10 ¹² n/cm ²	1	5	10
LL	0.050	0.050	0.050
Min	0.119	0.118	0.122
Average	0.122	0.121	0.124
Max	0.128	0.126	0.127
UL	0.350	0.350	0.350



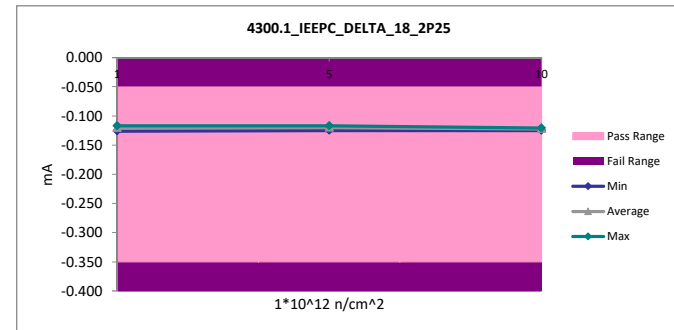
NDD Report OPA4H014-SEP

4300.1_IEEPC_DELTA_18_2P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	-0.05	-0.05
Min Limit	-0.35	-0.35

1*10^12 n/cm^2	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.117	-0.118	0.001	-0.85%	0.33%
1	2	-0.119	-0.119	0.000	0.00%	0.00%
1	3	-0.126	-0.127	0.001	-0.79%	0.33%
5	4	-0.118	-0.118	0.000	0.00%	0.00%
5	5	-0.125	-0.125	0.000	0.00%	0.00%
5	6	-0.117	-0.117	0.000	0.00%	0.00%
10	7	-0.121	-0.120	-0.001	0.83%	0.33%
10	8	-0.121	-0.120	-0.001	0.83%	0.33%
10	9	-0.125	-0.124	-0.001	0.80%	0.33%
Max		-0.117	-0.117	0.001	0.83%	0.33%
Average		-0.121	-0.121	0.000	0.09%	0.19%
Min		-0.126	-0.127	-0.001	-0.85%	0.00%
Std Dev		0.004	0.004	0.001	0.64%	0.18%



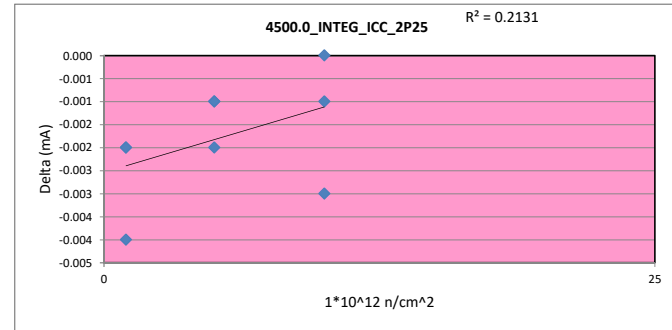
4300.1_IEEPC_DELTA_18_2P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	-0.05	mA	
Min Limit	-0.35	mA	
1*10^12 n/cm^2	1	5	10
LL	-0.350	-0.350	-0.350
Min	-0.126	-0.125	-0.125
Average	-0.121	-0.120	-0.122
Max	-0.117	-0.117	-0.121
UL	-0.050	-0.050	-0.050



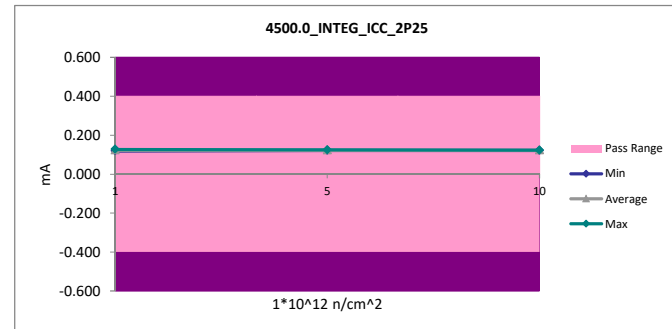
NDD Report OPA4H014-SEP

4500.0 INTEG_ICC_2P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	0.4	0.4
Min Limit	-0.4	-0.4

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	0.120	0.122	-0.002	-1.67%	0.25%
1	2	0.119	0.123	-0.004	-3.36%	0.50%
1	3	0.127	0.129	-0.002	-1.57%	0.25%
5	4	0.121	0.122	-0.001	-0.83%	0.13%
5	5	0.124	0.126	-0.002	-1.61%	0.25%
5	6	0.122	0.123	-0.001	-0.82%	0.13%
10	7	0.122	0.122	0.000	0.00%	0.00%
10	8	0.121	0.122	-0.001	-0.83%	0.13%
10	9	0.123	0.126	-0.003	-2.44%	0.37%
Max		0.127	0.129	0.000	0.00%	0.50%
Average		0.122	0.124	-0.002	-1.46%	0.22%
Min		0.119	0.122	-0.004	-3.36%	0.00%
Std Dev		0.002	0.003	0.001	1.00%	0.15%



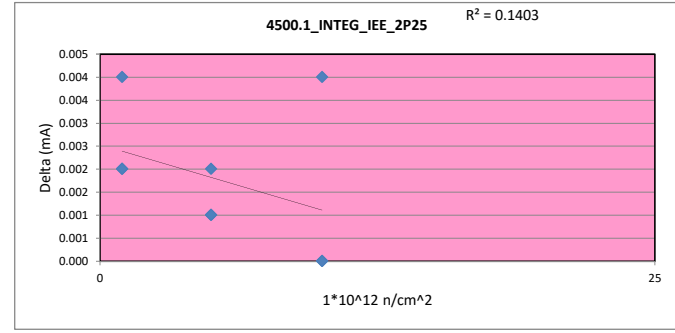
4500.0 INTEG_ICC_2P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.4	mA	
Min Limit	-0.4	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-0.400	-0.400	-0.400
Min	0.119	0.121	0.121
Average	0.122	0.122	0.122
Max	0.127	0.124	0.123
UL	0.400	0.400	0.400



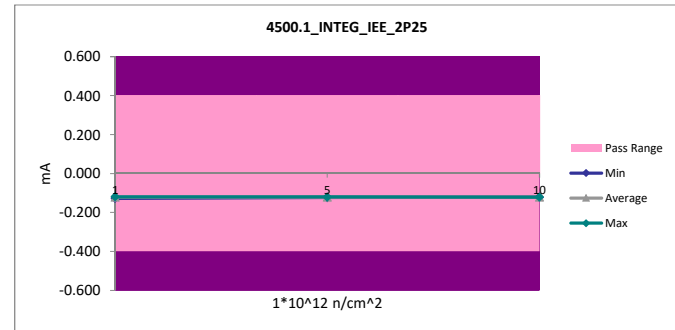
NDD Report
OPA4H014-SEP

4500.1 INTEG_IEE_2P25		
Test Site	TI Dallas	TI Dallas
Tester	ETS364	ETS364
Test Number	EB6298	EB6298
Unit	mA	mA
Max Limit	0.4	0.4
Min Limit	-0.4	-0.4

1*10 ¹² n/cm ²	Serial #	POST NDD	PRE NDD	Delta	Delta %	% of Limit Range
1	1	-0.120	-0.122	0.002	-1.67%	0.25%
1	2	-0.119	-0.123	0.004	-3.36%	0.50%
1	3	-0.127	-0.129	0.002	-1.57%	0.25%
5	4	-0.120	-0.122	0.002	-1.67%	0.25%
5	5	-0.124	-0.125	0.001	-0.81%	0.13%
5	6	-0.121	-0.122	0.001	-0.83%	0.13%
10	7	-0.122	-0.122	0.000	0.00%	0.00%
10	8	-0.121	-0.121	0.000	0.00%	0.00%
10	9	-0.122	-0.126	0.004	-3.28%	0.50%
Max		-0.119	-0.121	0.004	0.00%	0.50%
Average		-0.122	-0.124	0.002	-1.46%	0.22%
Min		-0.127	-0.129	0.000	-3.36%	0.00%
Std Dev		0.002	0.003	0.001	1.23%	0.19%



4500.1 INTEG_IEE_2P25			
Test Site	TI Dallas		
Tester	ETS364		
Test Number	EB6298		
Max Limit	0.4	mA	
Min Limit	-0.4	mA	
1*10 ¹² n/cm ²	1	5	10
LL	-0.400	-0.400	-0.400
Min	-0.127	-0.124	-0.122
Average	-0.122	-0.122	-0.122
Max	-0.119	-0.120	-0.121
UL	0.400	0.400	0.400



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