

DISPLACEMENT DAMAGE TEST REPORT OP467S

January 2023

Radiation Test Report	
Product:	OP467S
Die:	6100ZA
Fluence:	2e12 n/cm ²
Test Method:	MIL-STD-883 TM1017
Facilities:	UMass Lowell
Tested:	January 5, 2023

The RADTEST® DATA SERVICE is a compilation of radiation test results on Analog Devices' Space grade products. It is designed to assist customers in selecting the right product for applications where radiation is a consideration. Many products manufactured by Analog Devices, Inc. have been shown to be radiation tolerant to most tactical radiation environments. Analog Devices, Inc. does not make any claim to maintain or guarantee these levels of radiation tolerance without lot qualification test.

It is the responsibility of the Procuring Activity to screen products from Analog Devices, Inc. for compliance to Nuclear Hardness Critical Items (HCI) specifications.

Warning:

Analog Devices, Inc. does not recommend use of this data to qualify other product grades or process levels. Analog Devices, Inc. is not responsible and has no liability for any consequences, and all applicable Warranties are null and void if any Analog Devices product is modified in any way or used outside of normal environmental and operating conditions, including the parameters specified in the corresponding data sheet. Analog Devices, Inc. does not guarantee that wafer manufacturing is the same for all process levels.

Wafer #	SN	+ ISY VS=+/-15V (A)			-Isy VS = -15V (A)			VIO Vcc=+/-15V Side A (V)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	8.41E-03	8.34E-03	8.33E-03	-8.41E-03	-8.35E-03	-8.34E-03	-1.85E-04	-1.87E-04	-1.86E-04
	28	8.37E-03	8.30E-03	8.26E-03	-8.37E-03	-8.31E-03	-8.26E-03	-2.76E-04	-2.70E-04	-2.62E-04
	29	8.37E-03	8.30E-03	8.26E-03	-8.38E-03	-8.30E-03	-8.27E-03	-3.03E-04	-3.24E-04	-2.93E-04
	30	8.50E-03	8.41E-03	8.38E-03	-8.50E-03	-8.42E-03	-8.39E-03	-2.11E-04	-2.48E-04	-2.40E-04
	31	8.37E-03	8.29E-03	8.26E-03	-8.38E-03	-8.29E-03	-8.26E-03	-3.23E-04	-3.47E-04	-3.14E-04
	32	8.38E-03	8.29E-03	8.27E-03	-8.38E-03	-8.30E-03	-8.27E-03	-1.87E-04	-1.46E-04	-1.37E-04
	33	8.36E-03	8.28E-03	8.26E-03	-8.37E-03	-8.28E-03	-8.26E-03	-2.02E-04	-2.08E-04	-2.16E-04
	34	8.37E-03	8.28E-03	8.26E-03	-8.38E-03	-8.28E-03	-8.27E-03	-2.25E-04	-2.36E-04	-2.52E-04
	35	8.38E-03	8.30E-03	8.28E-03	-8.39E-03	-8.30E-03	-8.28E-03	-2.94E-04	-2.96E-04	-2.66E-04
	36	8.39E-03	8.30E-03	8.28E-03	-8.39E-03	-8.30E-03	-8.29E-03	-2.02E-04	-2.17E-04	-2.15E-04
	37	8.36E-03	8.27E-03	8.25E-03	-8.37E-03	-8.28E-03	-8.26E-03	-1.42E-04	-1.86E-04	-1.69E-04
min		8.36E-03	8.27E-03	8.25E-03	-8.50E-03	-8.42E-03	-8.39E-03	-3.23E-04	-3.47E-04	-3.14E-04
max		8.50E-03	8.41E-03	8.38E-03	-8.37E-03	-8.28E-03	-8.26E-03	-1.42E-04	-1.46E-04	-1.37E-04
mean		8.39E-03	8.30E-03	8.28E-03	-8.39E-03	-8.31E-03	-8.28E-03	-2.36E-04	-2.48E-04	-2.36E-04
std. dev		3.93E-05	4.08E-05	3.81E-05	3.93E-05	4.08E-05	3.80E-05	5.91E-05	6.26E-05	5.41E-05
mean - 3 sigma		8.27E-03	8.18E-03	8.16E-03	-8.51E-03	-8.43E-03	-8.39E-03	-4.14E-04	-4.36E-04	-3.99E-04
mean +3 sigma		8.50E-03	8.42E-03	8.39E-03	-8.27E-03	-8.18E-03	-8.17E-03	-5.92E-05	-6.01E-05	-7.42E-05

Wafer #	SN	VIO Vcc=+/-15V Side B (V)			VIO Vcc=+/-15V Side C (V)			VIO Vcc=+/-15V Side D (V)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	-1.23E-04	-1.24E-04	-1.23E-04	-2.28E-04	-2.28E-04	-2.27E-04	-2.34E-04	-2.34E-04	-2.33E-04
	28	-1.58E-04	-1.88E-04	-1.86E-04	-1.97E-04	-2.37E-04	-2.38E-04	-2.14E-04	-2.43E-04	-2.41E-04
	29	-1.76E-04	-2.06E-04	-2.10E-04	-1.88E-04	-1.54E-04	-1.72E-04	-2.00E-04	-2.38E-04	-2.18E-04
	30	-1.68E-04	-1.65E-04	-1.60E-04	-2.14E-04	-1.96E-04	-1.81E-04	-2.89E-04	-3.09E-04	-2.85E-04
	31	-1.75E-04	-1.79E-04	-1.81E-04	-2.08E-04	-2.19E-04	-2.29E-04	-2.08E-04	-2.16E-04	-2.05E-04
	32	-1.89E-04	-1.91E-04	-1.66E-04	-2.32E-04	-2.72E-04	-2.47E-04	-3.35E-04	-3.40E-04	-3.23E-04
	33	-2.49E-04	-2.77E-04	-2.99E-04	-1.62E-04	-1.83E-04	-1.86E-04	-2.44E-04	-2.39E-04	-2.58E-04
	34	-1.28E-04	-1.36E-04	-1.32E-04	-1.51E-04	-1.77E-04	-1.42E-04	-2.66E-04	-2.68E-04	-2.65E-04
	35	-1.50E-04	-1.45E-04	-1.75E-04	-2.05E-04	-2.04E-04	-2.11E-04	-2.04E-04	-1.63E-04	-1.90E-04
	36	-1.58E-04	-1.79E-04	-1.98E-04	-1.71E-04	-1.83E-04	-2.00E-04	-1.74E-04	-2.00E-04	-1.89E-04
	37	-1.31E-04	-1.78E-04	-1.87E-04	-2.01E-04	-2.42E-04	-2.30E-04	-2.07E-04	-2.22E-04	-2.13E-04
min		-2.49E-04	-2.77E-04	-2.99E-04	-2.32E-04	-2.72E-04	-2.47E-04	-3.35E-04	-3.40E-04	-3.23E-04
max		-1.28E-04	-1.36E-04	-1.32E-04	-1.51E-04	-1.54E-04	-1.42E-04	-1.74E-04	-1.63E-04	-1.89E-04
mean		-1.68E-04	-1.84E-04	-1.89E-04	-1.93E-04	-2.07E-04	-2.04E-04	-2.34E-04	-2.44E-04	-2.39E-04
std. dev		3.43E-05	3.85E-05	4.43E-05	2.51E-05	3.59E-05	3.34E-05	4.93E-05	5.15E-05	4.38E-05
mean - 3 sigma		-2.71E-04	-3.00E-04	-3.22E-04	-2.68E-04	-3.14E-04	-3.04E-04	-3.82E-04	-3.98E-04	-3.70E-04
mean +3 sigma		-6.50E-05	-6.87E-05	-5.66E-05	-1.18E-04	-9.92E-05	-1.03E-04	-8.63E-05	-8.93E-05	-1.07E-04

Wafer #	SN	+IB VCM=0V Side A (A)			-IB VCM=0V Side A (A)			+IB VCM=0V Side B (A)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	-2.68E-08	-2.88E-08	-2.91E-08	-3.91E-08	-4.08E-08	-4.11E-08	-1.77E-08	-1.94E-08	-1.97E-08
	28	-4.55E-09	7.41E-09	1.35E-08	3.29E-09	2.87E-08	3.27E-08	1.36E-08	3.65E-08	3.84E-08
	29	-1.92E-08	-8.52E-09	6.81E-09	-1.78E-08	7.13E-09	9.44E-09	-1.20E-08	-1.66E-08	-1.00E-08
	30	-3.68E-08	-2.95E-09	1.37E-09	-2.89E-08	-1.57E-08	-2.18E-08	-3.18E-08	-2.18E-08	-1.97E-08
	31	-2.22E-08	-5.66E-09	5.76E-09	-2.06E-08	-1.73E-09	-1.39E-08	-6.39E-09	2.13E-08	-4.16E-09
	32	-3.17E-08	-4.02E-08	-4.89E-08	-2.55E-08	-1.01E-08	-1.17E-08	-2.44E-08	-2.88E-08	-3.08E-08
	33	-1.14E-08	-1.20E-09	1.60E-09	-5.07E-09	-6.46E-09	1.05E-08	-1.72E-08	1.35E-08	3.81E-09
	34	-1.38E-08	-1.75E-09	4.89E-09	-2.03E-08	-6.80E-09	-8.27E-09	-3.80E-09	2.15E-08	2.03E-08
	35	-5.26E-08	-3.50E-08	-2.06E-08	-5.18E-08	-5.41E-08	-5.14E-08	-4.01E-08	-4.56E-08	-5.45E-08
	36	-9.67E-09	9.06E-09	3.75E-08	-1.47E-08	1.78E-08	2.58E-08	-9.83E-09	7.51E-09	8.55E-09
	37	-1.68E-08	-7.70E-09	-9.57E-09	-1.77E-08	-1.10E-08	-1.87E-08	-1.92E-08	-9.72E-09	-6.25E-09
min		-5.26E-08	-4.02E-08	-4.89E-08	-5.18E-08	-5.41E-08	-5.14E-08	-4.01E-08	-4.56E-08	-5.45E-08
max		-4.55E-09	9.06E-09	3.75E-08	3.29E-09	2.87E-08	3.27E-08	1.36E-08	3.65E-08	3.84E-08
mean		-2.19E-08	-8.66E-09	-7.57E-10	-1.99E-08	-5.22E-09	-4.74E-09	-1.51E-08	-2.22E-09	-5.43E-09
std. dev		1.46E-08	1.64E-08	2.26E-08	1.46E-08	2.21E-08	2.49E-08	1.52E-08	2.62E-08	2.61E-08
mean - 3 sigma		-6.57E-08	-5.77E-08	-6.85E-08	-6.38E-08	-7.16E-08	-7.94E-08	-6.07E-08	-8.09E-08	-8.37E-08
mean +3 sigma		2.20E-08	4.04E-08	6.70E-08	2.40E-08	6.12E-08	6.99E-08	3.04E-08	7.65E-08	7.29E-08

Wafer #	SN	-IB VCM=0V Side B (A)			+IB VCM=0V Side C (A)			-IB VCM=0V Side C (A)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	-4.26E-08	-4.47E-08	-4.48E-08	-2.84E-08	-2.99E-08	-3.00E-08	-1.77E-08	-1.96E-08	-1.98E-08
	28	-2.39E-08	-7.94E-10	9.03E-09	-3.22E-09	-1.50E-09	1.49E-08	-1.75E-08	1.44E-08	2.51E-08
	29	-3.11E-08	-2.33E-08	-2.03E-08	-8.50E-09	2.29E-08	2.11E-08	-3.35E-08	-1.42E-08	-1.42E-08
	30	-3.89E-08	-2.22E-08	-1.58E-08	-3.45E-08	-2.56E-08	-1.50E-08	-4.08E-08	-1.49E-08	-3.27E-08
	31	-3.84E-08	-3.29E-08	-2.07E-08	-1.69E-08	-9.00E-09	-1.57E-08	-3.05E-08	-4.00E-09	-6.89E-09
	32	-1.89E-08	3.62E-09	3.60E-09	-1.87E-08	-1.67E-09	-1.05E-08	-1.31E-08	1.07E-08	1.56E-08
	33	-3.51E-09	3.43E-08	4.08E-08	-1.42E-08	1.46E-09	1.07E-08	-1.94E-08	1.60E-08	1.33E-08
	34	-2.51E-08	1.42E-09	4.06E-09	-1.60E-08	-2.85E-08	-2.55E-08	-2.76E-08	-1.44E-08	-1.73E-08
	35	-7.25E-08	-6.48E-08	-5.82E-08	-4.91E-08	-4.66E-08	-5.57E-08	-4.92E-08	-4.52E-08	-2.85E-08
	36	-8.04E-09	1.67E-08	2.58E-08	-1.69E-08	3.06E-08	4.06E-08	-2.45E-08	-1.04E-08	-1.12E-08
	37	-1.76E-08	1.31E-08	1.34E-08	-3.12E-08	-1.00E-08	-1.90E-08	-1.09E-08	1.72E-08	2.86E-08
min		-7.25E-08	-6.48E-08	-5.82E-08	-4.91E-08	-4.66E-08	-5.57E-08	-4.92E-08	-4.52E-08	-3.27E-08
max		-3.51E-09	3.43E-08	4.08E-08	-3.22E-09	3.06E-08	4.06E-08	-1.09E-08	1.72E-08	2.86E-08
mean		-2.78E-08	-7.48E-09	-1.83E-09	-2.09E-08	-6.80E-09	-5.42E-09	-2.67E-08	-4.48E-09	-2.82E-09
std. dev		1.95E-08	2.87E-08	2.80E-08	1.36E-08	2.32E-08	2.76E-08	1.22E-08	1.97E-08	2.20E-08
mean - 3 sigma		-8.64E-08	-9.36E-08	-8.59E-08	-6.16E-08	-7.63E-08	-8.81E-08	-6.33E-08	-6.34E-08	-6.87E-08
mean +3 sigma		3.08E-08	7.86E-08	8.22E-08	1.98E-08	6.27E-08	7.73E-08	9.97E-09	5.45E-08	6.31E-08

Wafer #	SN	+IB VCM=0V Side D (A)			-IB VCM=0V Side D (A)			IOS Vcm=0V Side A (A)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	-3.16E-08	-3.32E-08	-3.33E-08	-1.71E-08	-1.91E-08	-1.92E-08	1.23E-08	1.20E-08	1.20E-08
	28	-9.65E-09	4.35E-09	1.04E-08	-9.54E-09	2.35E-08	1.89E-08	-7.84E-09	-2.13E-08	-1.91E-08
	29	-1.02E-08	-4.11E-09	-1.76E-09	-3.30E-08	-1.79E-08	-9.75E-09	-1.40E-09	-1.57E-08	-2.63E-09
	30	-3.75E-08	-4.39E-08	-3.60E-08	-2.40E-08	-8.56E-09	8.47E-10	-7.90E-09	1.28E-08	2.32E-08
	31	-1.47E-08	-1.25E-08	-2.81E-09	-3.52E-08	-1.54E-08	-1.89E-08	-1.62E-09	-3.93E-09	1.97E-08
	32	-3.85E-08	3.86E-09	1.40E-09	2.49E-10	2.28E-08	2.41E-08	-6.25E-09	-3.01E-08	-3.72E-08
	33	-1.61E-08	-3.38E-10	4.81E-09	-8.29E-09	1.59E-09	7.56E-09	-6.30E-09	5.26E-09	-8.89E-09
	34	-1.87E-08	6.44E-09	1.32E-08	-1.06E-08	5.15E-09	5.45E-09	6.54E-09	5.04E-09	1.32E-08
	35	-3.96E-08	-3.10E-08	-2.59E-08	-5.94E-08	-6.38E-08	-5.90E-08	-8.07E-10	1.91E-08	3.08E-08
	36	-1.64E-08	-4.75E-09	-3.66E-10	-2.17E-08	1.62E-08	1.64E-09	5.02E-09	-8.77E-09	1.17E-08
	37	-2.76E-08	3.83E-09	1.40E-08	-5.96E-09	1.74E-08	2.70E-08	8.73E-10	3.29E-09	9.12E-09
min		-3.96E-08	-4.39E-08	-3.60E-08	-5.94E-08	-6.38E-08	-5.90E-08	-7.90E-09	-3.01E-08	-3.72E-08
max		-9.65E-09	6.44E-09	1.40E-08	2.49E-10	2.35E-08	2.70E-08	6.54E-09	1.91E-08	3.08E-08
mean		-2.29E-08	-7.81E-09	-2.30E-09	-2.08E-08	-1.91E-09	-2.22E-10	-1.97E-09	-3.43E-09	3.99E-09
std. dev		1.19E-08	1.69E-08	1.64E-08	1.80E-08	2.65E-08	2.51E-08	5.14E-09	1.55E-08	2.09E-08
mean - 3 sigma		-5.85E-08	-5.85E-08	-5.16E-08	-7.47E-08	-8.15E-08	-7.57E-08	-1.74E-08	-5.00E-08	-5.88E-08
mean +3 sigma		1.27E-08	4.28E-08	4.70E-08	3.32E-08	7.77E-08	7.52E-08	1.35E-08	4.32E-08	6.68E-08

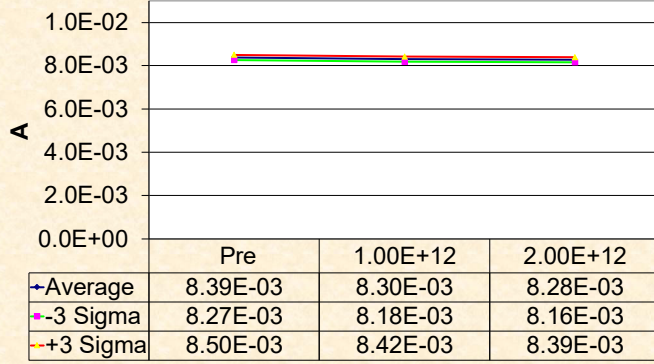
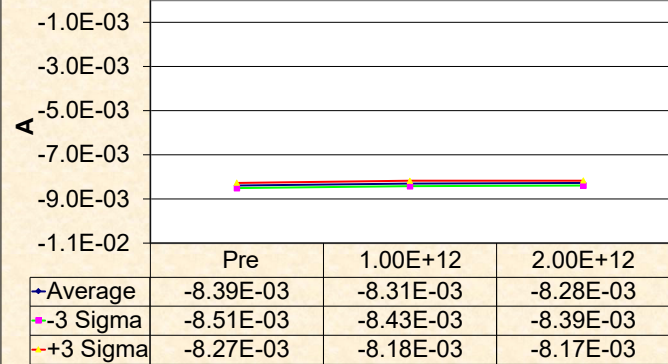
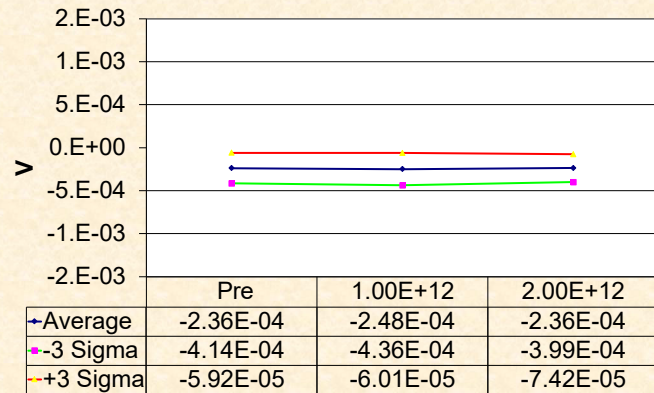
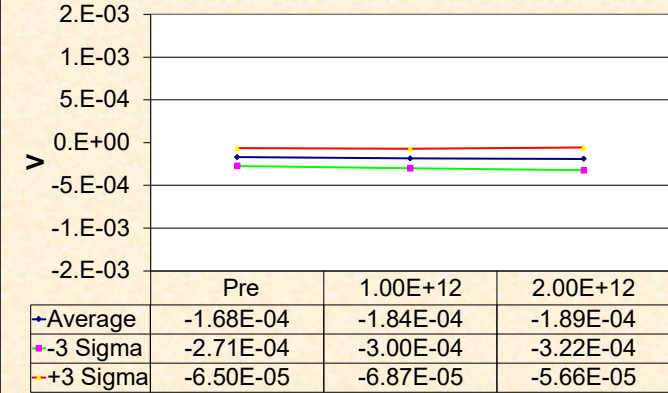
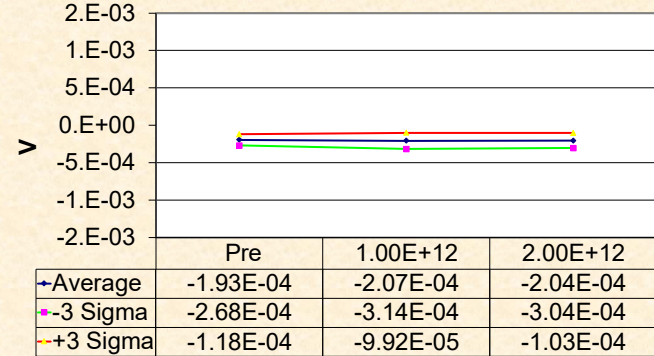
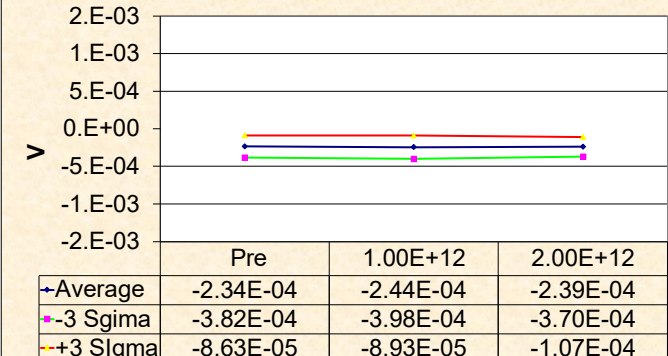
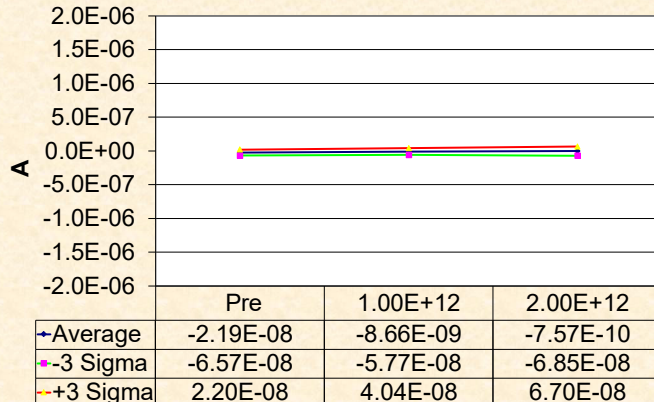
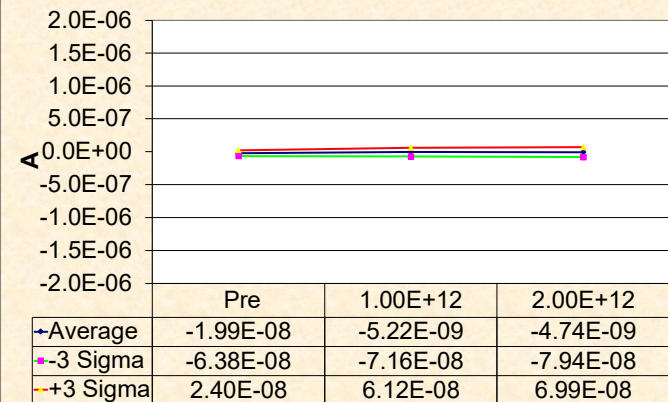
Wafer #	SN	IOS Vcm=0V Side B (A)			IOS Vcm=0V Side C (A)			IOS Vcm=0V Side D (A)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	2.49E-08	2.52E-08	2.51E-08	-1.07E-08	-1.02E-08	-1.02E-08	-1.45E-08	-1.41E-08	-1.41E-08
	28	3.75E-08	3.73E-08	2.94E-08	1.42E-08	-1.59E-08	-1.02E-08	-1.14E-10	-1.91E-08	-8.49E-09
	29	1.91E-08	6.72E-09	1.03E-08	2.50E-08	3.71E-08	3.53E-08	2.29E-08	1.38E-08	7.99E-09
	30	7.06E-09	4.55E-10	-3.90E-09	6.34E-09	-1.07E-08	1.78E-08	-1.34E-08	-3.54E-08	-3.68E-08
	31	3.20E-08	5.42E-08	1.65E-08	1.36E-08	-4.99E-09	-8.82E-09	2.06E-08	2.91E-09	1.61E-08
	32	-5.56E-09	-3.25E-08	-3.44E-08	-5.61E-09	-1.24E-08	-2.61E-08	-3.87E-08	-1.89E-08	-2.27E-08
	33	-1.37E-08	-2.08E-08	-3.70E-08	5.15E-09	-1.46E-08	-2.68E-09	-7.77E-09	-1.93E-09	-2.75E-09
	34	2.13E-08	2.01E-08	1.62E-08	1.16E-08	-1.41E-08	-8.19E-09	-8.13E-09	1.29E-09	7.74E-09
	35	3.24E-08	1.92E-08	3.77E-09	8.25E-11	-1.40E-09	-2.73E-08	1.98E-08	3.28E-08	3.31E-08
	36	-1.79E-09	-9.19E-09	-1.72E-08	7.57E-09	4.10E-08	5.17E-08	5.27E-09	-2.10E-08	-2.01E-09
	37	-1.61E-09	-2.28E-08	-1.96E-08	-2.03E-08	-2.73E-08	-4.76E-08	-2.17E-08	-1.35E-08	-1.30E-08
min		-1.37E-08	-3.25E-08	-3.70E-08	-2.03E-08	-2.73E-08	-4.76E-08	-3.87E-08	-3.54E-08	-3.68E-08
max		3.75E-08	5.42E-08	2.94E-08	2.50E-08	4.10E-08	5.17E-08	2.29E-08	3.28E-08	3.31E-08
mean		1.27E-08	5.26E-09	-3.60E-09	5.77E-09	-2.32E-09	-2.60E-09	-2.13E-09	-5.90E-09	-2.08E-09
std. dev		1.82E-08	2.78E-08	2.27E-08	1.24E-08	2.29E-08	3.00E-08	2.00E-08	1.98E-08	1.99E-08
mean - 3 sigma		-4.18E-08	-7.82E-08	-7.17E-08	-3.14E-08	-7.09E-08	-9.27E-08	-6.21E-08	-6.53E-08	-6.17E-08
mean +3 sigma		6.71E-08	8.87E-08	6.45E-08	4.29E-08	6.63E-08	8.75E-08	5.78E-08	5.35E-08	5.76E-08

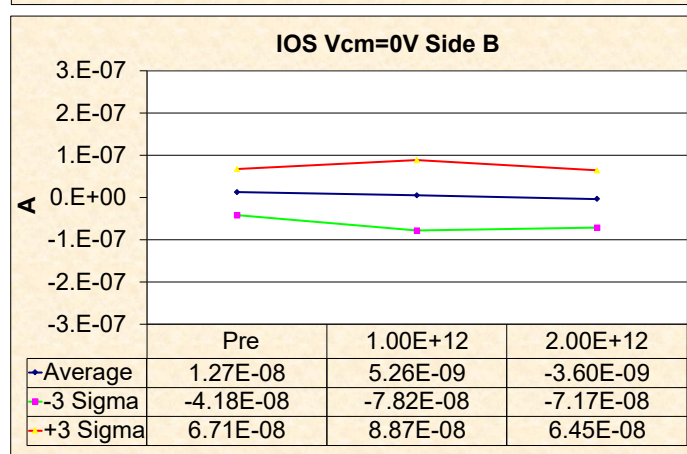
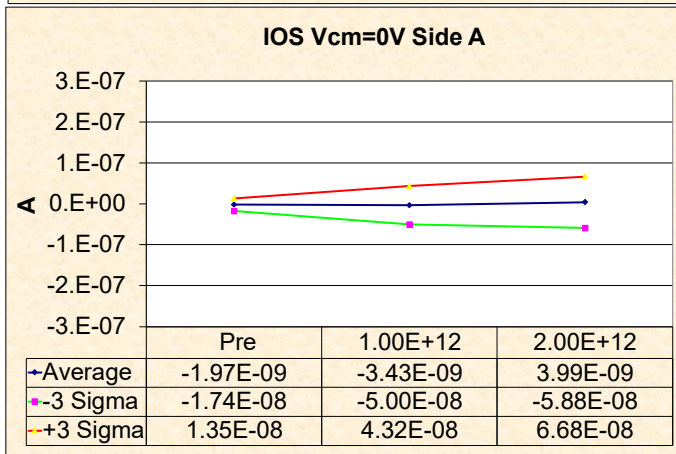
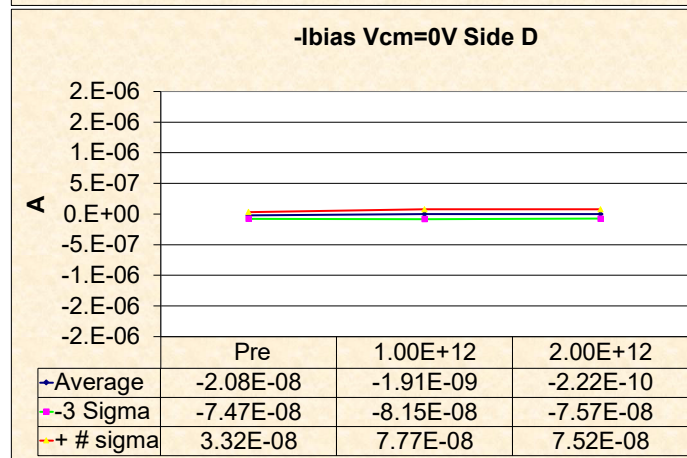
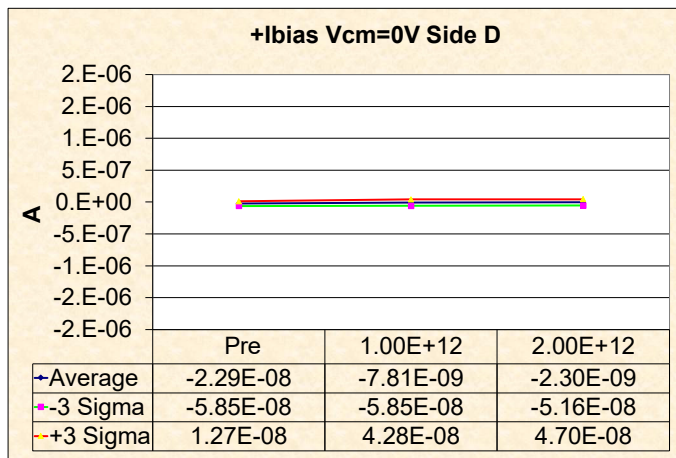
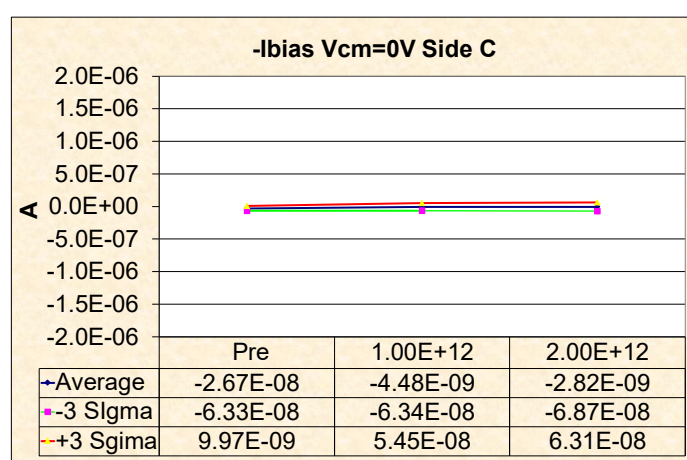
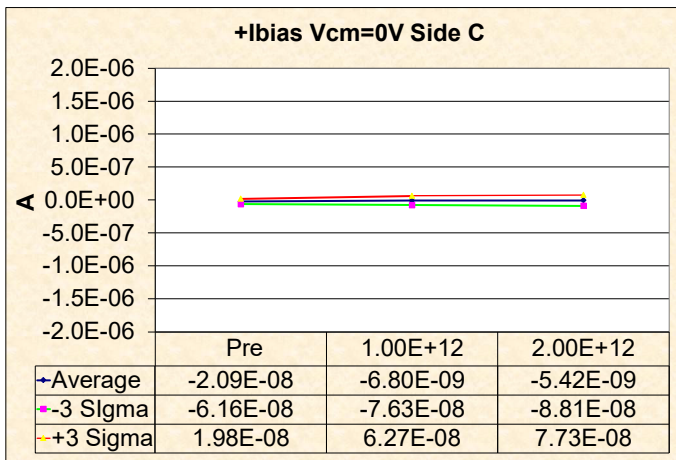
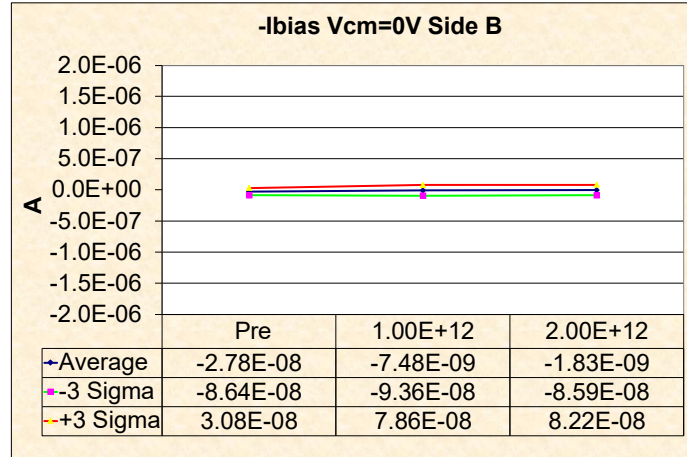
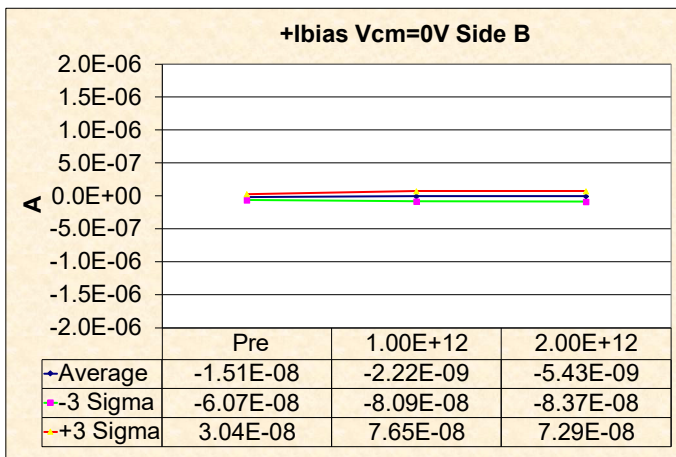
Wafer #	SN	AVO RI=10k Side A (dB)			AVO RI=10k Side B (dB)			AVO RI=10k Side C (dB)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	0K	1.00E+12	2.00E+12
CTRL	38	86.579	86.467	86.461	86.570	86.458	86.453	86.606	86.492	86.487
	28	86.368	84.447	83.490	86.354	84.474	83.562	86.436	84.567	83.540
	29	86.238	84.355	83.456	86.179	84.435	83.484	86.332	84.491	83.582
	30	86.534	84.678	83.708	86.552	84.597	83.643	86.624	84.708	83.753
	31	86.357	84.400	83.489	86.319	84.388	83.486	86.414	84.453	83.547
	32	86.163	84.359	83.483	86.156	84.216	83.327	86.272	84.382	83.436
	33	86.118	84.232	83.322	86.080	84.141	83.270	86.228	84.350	83.481
	34	86.159	84.247	83.380	86.178	84.294	83.429	86.210	84.225	83.347
	35	85.172	83.483	82.617	85.113	83.330	82.473	85.220	83.456	82.597
	36	86.225	84.304	83.427	86.185	84.198	83.341	86.204	84.200	83.311
	37	86.136	84.168	83.304	86.068	84.149	83.276	86.186	84.172	83.278
min		85.172	83.483	82.617	85.113	83.330	82.473	85.220	83.456	82.597
max		86.534	84.678	83.708	86.552	84.597	83.643	86.624	84.708	83.753
mean		86.147	84.267	83.368	86.118	84.222	83.329	86.213	84.300	83.387
std. dev		0.367	0.310	0.287	0.382	0.348	0.325	0.375	0.342	0.312
mean - 3 sigma		85.047	83.339	82.507	84.973	83.178	82.354	85.089	83.276	82.452
mean +3 sigma		87.247	85.196	84.228	87.263	85.266	84.304	87.337	85.325	84.323

Wafer #	SN	AVO RI=10k Side D (dB)			Voh_A_30V @ 2K (V)			Vol_A_30V @ 2K (V)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	86.685	86.572	86.567	13.289	13.282	13.281	-13.344	-13.336	-13.334
	28	86.465	84.583	83.651	13.292	13.285	13.282	-13.344	-13.335	-13.330
	29	86.344	84.491	83.560	13.292	13.287	13.283	-13.349	-13.340	-13.334
	30	86.645	84.717	83.767	13.288	13.280	13.278	-13.343	-13.333	-13.329
	31	86.511	84.478	83.586	13.292	13.286	13.283	-13.348	-13.338	-13.334
	32	86.214	84.325	83.353	13.293	13.285	13.284	-13.350	-13.338	-13.336
	33	86.203	84.328	83.422	13.292	13.285	13.284	-13.349	-13.339	-13.336
	34	86.225	84.426	83.525	13.293	13.285	13.285	-13.349	-13.338	-13.334
	35	85.288	83.528	82.696	13.290	13.284	13.283	-13.355	-13.342	-13.340
	36	86.289	84.380	83.471	13.292	13.285	13.284	-13.348	-13.337	-13.335
	37	86.213	84.306	83.429	13.292	13.284	13.283	-13.349	-13.337	-13.335
min		85.288	83.528	82.696	13.288	13.280	13.278	-13.355	-13.342	-13.340
max		86.645	84.717	83.767	13.293	13.287	13.285	-13.343	-13.333	-13.329
mean		86.240	84.356	83.446	13.292	13.285	13.283	-13.348	-13.338	-13.334
std. dev		0.367	0.318	0.290	0.002	0.002	0.002	0.003	0.003	0.003
mean - 3 sigma		85.139	83.402	82.576	13.287	13.279	13.277	-13.358	-13.345	-13.344
mean +3 sigma		87.340	85.310	84.316	13.297	13.290	13.289	-13.339	-13.330	-13.325

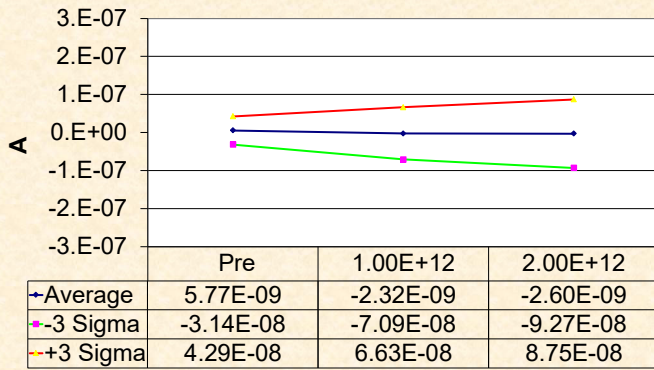
Wafer #	SN	Voh_B_30V @ 2K (V)			Vol_B_30V @ 2K (V)			Voh_C_30V @ 2K (V)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	13.290	13.283	13.282	-13.345	-13.337	-13.335	13.286	13.279	13.277
	28	13.292	13.286	13.283	-13.345	-13.337	-13.332	13.290	13.285	13.281
	29	13.291	13.284	13.281	-13.348	-13.339	-13.335	13.289	13.282	13.279
	30	13.289	13.282	13.279	-13.344	-13.334	-13.331	13.285	13.278	13.274
	31	13.292	13.285	13.283	-13.350	-13.339	-13.335	13.289	13.281	13.280
	32	13.294	13.286	13.283	-13.350	-13.339	-13.336	13.290	13.284	13.282
	33	13.294	13.285	13.284	-13.349	-13.338	-13.335	13.291	13.284	13.282
	34	13.293	13.285	13.285	-13.351	-13.339	-13.336	13.290	13.283	13.281
	35	13.290	13.283	13.281	-13.354	-13.343	-13.340	13.286	13.280	13.278
	36	13.292	13.285	13.283	-13.349	-13.337	-13.334	13.288	13.281	13.280
	37	13.292	13.284	13.284	-13.350	-13.339	-13.335	13.289	13.281	13.280
min		13.289	13.282	13.279	-13.354	-13.343	-13.340	13.285	13.278	13.274
max		13.294	13.286	13.285	-13.344	-13.334	-13.331	13.291	13.285	13.282
mean		13.292	13.285	13.283	-13.349	-13.338	-13.335	13.289	13.282	13.280
std. dev		0.002	0.001	0.002	0.003	0.002	0.003	0.002	0.002	0.002
mean - 3 sigma		13.287	13.281	13.278	-13.357	-13.345	-13.343	13.283	13.275	13.272
mean +3 sigma		13.296	13.289	13.288	-13.341	-13.332	-13.327	13.294	13.289	13.287

Wafer #	SN	Vol_C_30V @ 2K (V)			Voh_D_30V @ 2K (V)			Vol_D_30V @ 2K (V)		
		Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12	Pre	1.00E+12	2.00E+12
CTRL	38	-13.352	-13.344	-13.342	13.286	13.280	13.279	-13.352	-13.344	-13.343
	28	-13.354	-13.345	-13.341	13.290	13.285	13.281	-13.354	-13.345	-13.340
	29	-13.356	-13.349	-13.344	13.289	13.284	13.281	-13.356	-13.348	-13.343
	30	-13.352	-13.343	-13.337	13.285	13.279	13.276	-13.352	-13.341	-13.337
	31	-13.358	-13.347	-13.343	13.289	13.284	13.281	-13.358	-13.348	-13.344
	32	-13.358	-13.348	-13.344	13.290	13.283	13.281	-13.358	-13.346	-13.342
	33	-13.360	-13.349	-13.345	13.291	13.284	13.282	-13.360	-13.347	-13.344
	34	-13.359	-13.346	-13.344	13.290	13.283	13.282	-13.359	-13.346	-13.344
	35	-13.363	-13.351	-13.349	13.286	13.282	13.281	-13.363	-13.354	-13.351
	36	-13.356	-13.345	-13.342	13.288	13.284	13.282	-13.356	-13.346	-13.343
	37	-13.358	-13.347	-13.344	13.289	13.283	13.282	-13.358	-13.346	-13.346
min		-13.363	-13.351	-13.349	13.285	13.279	13.276	-13.363	-13.354	-13.351
max		-13.352	-13.343	-13.337	13.291	13.285	13.282	-13.352	-13.341	-13.337
mean		-13.358	-13.347	-13.343	13.289	13.283	13.281	-13.358	-13.347	-13.343
std. dev		0.003	0.002	0.003	0.002	0.002	0.002	0.003	0.003	0.004
mean - 3 sigma		-13.367	-13.354	-13.352	13.283	13.278	13.276	-13.367	-13.356	-13.354
mean +3 sigma		-13.348	-13.339	-13.334	13.294	13.288	13.286	-13.348	-13.337	-13.333

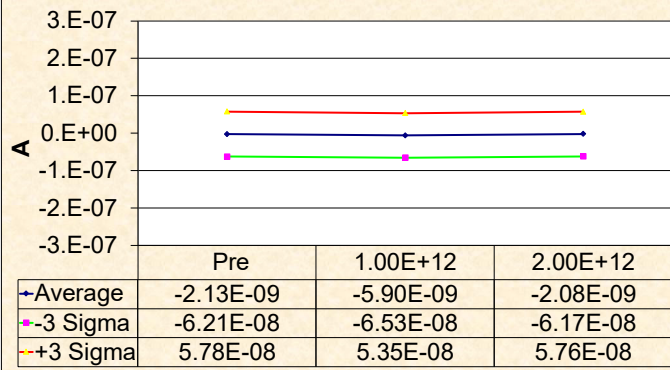
+Isy VS = 15V**-Isy VS = -15V****VIO Vcc=+/-15V Side A****VIO Vcc=+/-15V Side B****VIO Vcc=+/-15V Side C****VIO Vcc=+/-15V Side D****+Ibias Vcm=0V Side A****-Ibias Vcm=0V Side A**



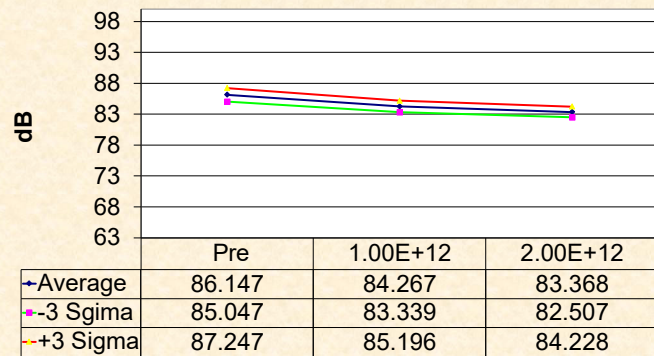
IOS Vcm=0V Side C



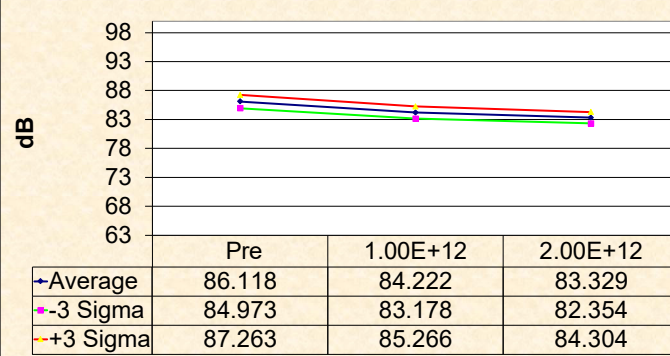
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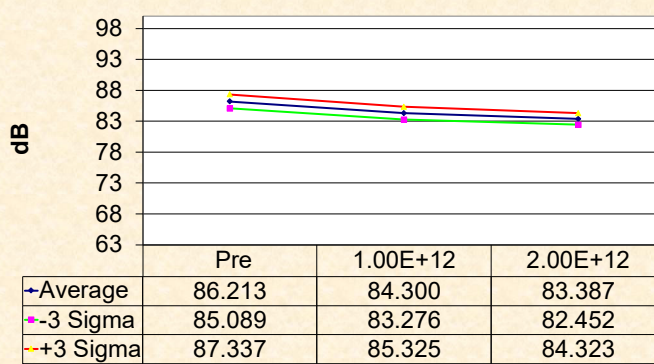
AVO RI=10k Side A



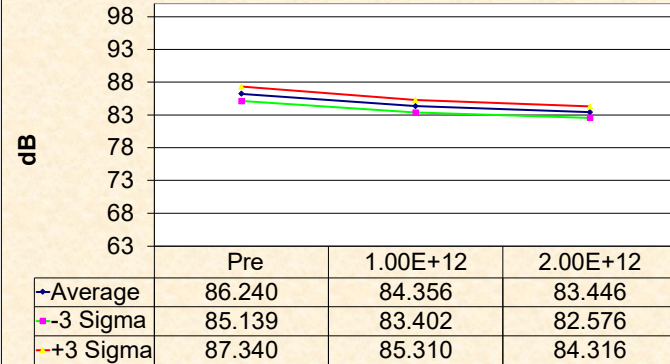
AVO RI=10K Side B



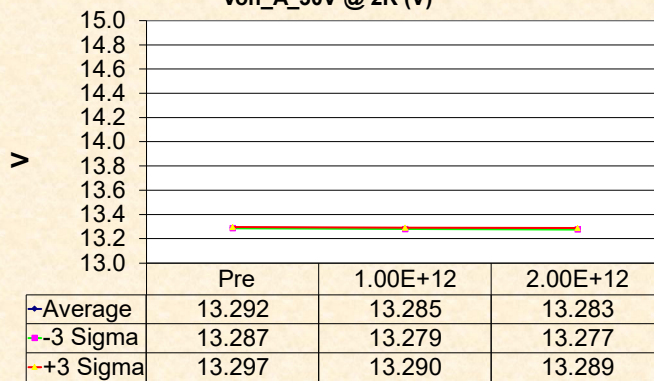
AVO RI=10k Side C



AVO RI=10k Side D



Voh_A_30V @ 2K (V)



Vol_A_30V @ 2K (V)

