

SN55HVD233-SP Total Ionizing Dose (TID) Radiation Report

Ram Gooty

ABSTRACT

This report discusses the results of the Total Ionizing Dose (TID) testing the Radiation Hardness Assured (RHA), QML Class V Texas Instrument’s SN55HVD233-SP (5962L1420901VXC). The RHA version of the SN55HVD233-SP passes up to 50-krad(Si) Low Dose Rate (LDR) and 50-krad(Si) High Dose Rate (HDR) TID.

Contents

1	Device Information.....	1
2	Total Dose Test Setup	3
3	Total Ionizing Dose (RHA) Characterization Test Results	6
4	Applicable and Reference Documents	7
Appendix A Full TID Report Graphs and Tables		8

List of Figures

1	SN55HVD233-SP Device Used in Exposure	3
2	Bias Diagram Used in TID Exposure.....	4
3	Radiation Exposure Effect on $V_{OD(D)}$	6
4	Radiation Exposure Effect on I_{CC} Supply Current, Dominant	6

List of Tables

1	Device and Exposure Details	2
2	HDR Biased Device and Exposure Information	5
3	LDR Biased Device and Exposure Information	5

Trademarks

All trademarks are the property of their respective owners.

1 Device Information

1.1 Product Description

The SN55D233-SP is used in spacecraft applications employing the controller area network (CAN) serial communication physical layer in accordance with the ISO 11898 standard. As a CAN transceiver, the device provides transmit and receive capability between the differential CAN bus and a CAN controller, with signaling rates up to 1 Mbps. Designed for operation in especially harsh radiation environments, the SN55HVD233-SP features crosswire, overvoltage, and loss of ground protection to ± 16 V, overtemperature (thermal shutdown) protection. This device operates over a wide -7 -V to 12-V common mode range. This transceiver is the interface between the host CAN controller on the microprocessor, FPGA, or ASIC, and the differential CAN bus used in satellite applications. The SN55HVD233-SP is characterized for operation from -55°C to 125°C . It has been RHA qualified to 50 krad(Si) under both LDR and HDR (after 366 hours of anneal).

1.2 Device Details

Table 1 lists the device information used in the initial RHA TID characterization and qualification of HDR tests. Current production lot RLAT data can always be found in the Group E report shipped. The process for pulling the group E report from TI is described in [Section 3.2](#).

Table 1. Device and Exposure Details

TID HDR/LDR Details: 50 krad(Si)	
TI Device Number	SN55HVD233-RHA (5962L1420901VXC)
Package	8 Pin HKX
Technology	LBC3S
Die Lot Number	1634103DFB
A/T Lot Number / Date Code	7005041MTT/1736A
Quantity Tested	57 units, including 1 control unit.
Lot Accept/Reject	Devices passed 3 krad(Si), 10 krad(Si), 30 krad(Si) and 50 krad(Si)
HDR Radiation Facility	Texas Instruments SVA Group, Santa Clara, CA
LDR Radiation Facility	RAD/Aeroflex in Colorado Springs, Colorado
HDR Dose Level	3 krad(Si), 10 krad(Si), 30 krad(Si), 50 krad(Si)
HDR Dose Rate	65 rad(Si)/s
LDR Dose Level	10 krad(Si), 20 krad(Si), 30 krad(Si), 40 krad(Si) , 50 krad(Si)
LDR Dose Rate	0.01 rad(Si)/s
HDR Radiation Source	Gammacell 220 Excel (GC-220E) Co-60
LDR Radiation Source	Gammacell JLSA 81-24 Co-60
Irradiation Temperature	Ambient, room temperature

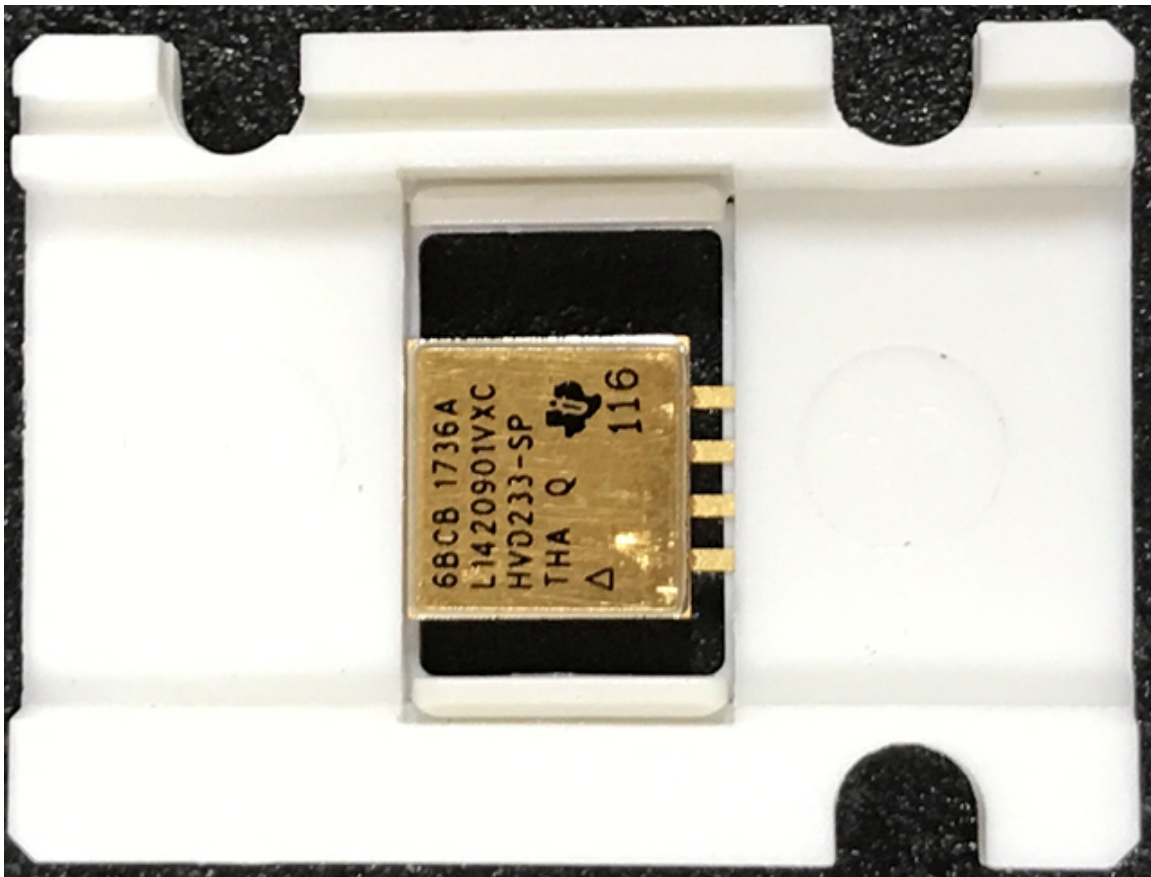


Figure 1. SN55HVD233-SP Device Used in Exposure

2 Total Dose Test Setup

2.1 Test Overview

The SN55HVD233-SP was tested according to MIL-STD-883, Test Method 1019.9. For this testing, Condition A, Condition D. For Condition A, Condition D the product was irradiated up to 50 krad(Si), the rated radiation level, and then put through parametric testing on the ATE. The device was functional and passed all electrical parametric tests with the readings within guard bands of the Standard Microcircuit Drawing (SMD) electrical specification limits and is ELDRS free.

The SN55HVD233-SP LBC3S process technology contains Bipolar and CMOS components. Both HDR and LDR tests were performed.

2.2 Test Description and Facilities

The SN55HVD233-SP LDR exposure was performed on unbiased devices in a Co60 gamma cell under a 10-mrad(Si)/s exposure rate. The dose rate of the irradiator used in the exposure ranges from < 10 mrad(Si)/s to a maximum of approximately 65 rad(Si)/s, determined by the distance from the source. For the LDR (10-mrad(Si)/s) exposure, the test box was positioned approximately 2 m from the source. The exposure boards are housed in a lead-aluminum box (as specified in MIL-STD-883 TM 1019.9) to harden the gamma spectrum and minimize dose enhancement effects. The irradiator calibration is maintained by Logmire Laboratories using Thermoluminescence Dosimeters (TLDs) that are traceable to the National Institute of Standards and Technology (NIST). The dosimetry was verified using TLDs prior to the radiation exposures. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and returned to TI Dallas for a full post radiation electrical evaluation using Texas Instruments

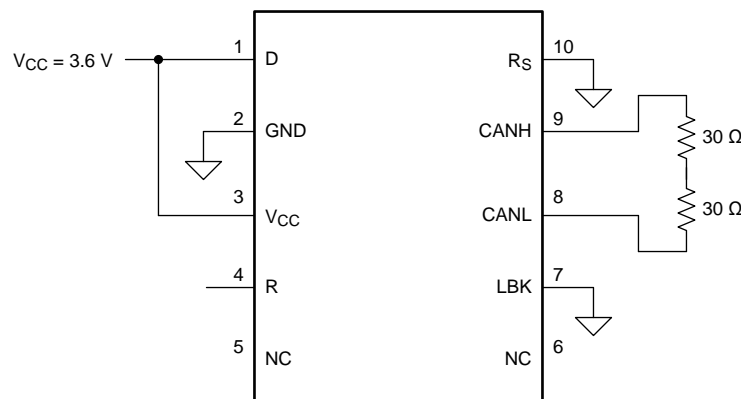
production Automated Test Equipment (ATE). ATE guard band test limits are set within SMD electrical limits to ensure a minimum Cpk and test error margin based on initial qualification and characterization data. Post radiation measurements were taken within 30 minutes of removal of the devices from the dry ice container. The devices were allowed to reach room temperature prior to electrical post radiation measurements.

The SN55HVD233-SP HDR exposure was performed on biased and unbiased devices in a Co60 gamma cell at TI SVA facility in Santa Clara, California. The un-attenuated dose rate of this cell is 65 rad(Si)/s. After exposure, the devices were packed in dry ice (per MIL-STD-883 Method 1019.9 section 3.10) and returned to TI Dallas for a full post radiation electrical evaluation using Texas Instruments ATE. ATE guard band test limits are set within SMD electrical limits to ensure a minimum Cpk and test error margin based on initial qualification and characterization data. Post radiation measurements were taken within 30 minutes of removal of the devices from the dry ice container. The devices were allowed to reach room temperature prior to electrical post radiation measurements.

2.3 Test Setup Details

The devices under HDR and LDR exposure were tested in both biased and unbiased conditions as described below.

- A. **Unbiased** - - For the unbiased LDR conditions, the exposure was performed with all pins grounded.
- B. **Biased** - - [Figure 2](#) is used for HDR exposure with biased condition.



Bias condition: Pin 1 to 3.6 V for common mode; 2.4 V at both CANH and CANL

Figure 2. Bias Diagram Used in TID Exposure

2.4 Test Configuration and Condition

A step-stress (3k, 10k, 30k, 50k) test method was used to determine the TID hardness level. That is, after a predetermined TID level was reached, an electrical test was performed on a given sample of parts to verify that the units are within SMD electrical test limits. MIL-STD-883, Test Method 1019.9, Condition A, Condition D. If this passes, then the wafer lot can be certified as an RHA wafer lot.

Table 2. HDR Biased Device and Exposure Information

HDR = 65 rad(Si)/s			
Total Samples: 5 Biased/TID level			
Exposure Levels:			
3k	10k	30k	50k
Biased 1, 2, 3, 6, 11 Unbiased 14, 16, 18, 19, 22	Biased 23, 24, 25, 28, 30 Unbiased 33, 35, 36, 39, 40	Biased 43, 44, 48, 50, 52 Unbiased 96, 98, 99, 101, 102	Biased 105, 107, 108, 111, 113, 114, 116, 118, 119, 121, 124, 125, 128, 130, 131, 133, 134, 135, 137, 298, 299 Unbiased 293, 294, 295, 296, 297

Control Unit: 1

Table 3. LDR Biased Device and Exposure Information

LDR = 10 mrad(Si)/s				
Total Samples: 5 Unbiased/TID level				
Exposure Levels:				
10k	20k	30k	40k	50k
27, 28, 29, 30, 31	32, 33, 34, 35, 36	32, 33, 34, 35, 36	42, 43, 44, 45, 46	47, 48, 49, 50, 51

Control Unit: 2

3 Total Ionizing Dose (RHA) Characterization Test Results

3.1 Total Ionizing Dose RHA Characterization Summary Results

The parametric data for the SN55HVD233-SP passes up to 50-krad(Si) LDR and HDR.

The drift of SMD electrical parameters including critical parameters through LDR is within experimental error to the drift at HDR. The device is tested to maximum total dose of 50 krad(Si) per MIL-STD-883, TM1090 condition A, Condition D.

The SN55HVD233-SP passed post electrical test over all the conditions below ensuring that the wafer lot is certifiable as 50-krad(Si) RHA. Samples were assembled from one wafer level variability regarding TID drift through post electrical test on ATE after HDR and LDR exposure.

- HDR (100-rad(Si)/s) biased: Post 3 krad(Si), 10 krad(Si), 30 krad(Si), 50 krad(Si), 75 krad(Si)
- LDR (0.01-rad(Si)/s) unbiased: Post 20 krad(Si), 30 krad(Si), 50 krad(Si), 75 krad(Si), 100 krad(Si)
- LDR (0.01-rad(Si)/s) biased: Post 20 krad(Si), 30 krad(Si), 50 krad(Si), 75 krad(Si)

Overall radiation performance was very solid. There were no functional or parametric failures at any read point. All data sheet parameters passed at all exposure levels with margin and ELDRS free. However, radiation end point limits for the noted parameters are ensured only for the conditions as specified in MIL-STD-883, method 1019, condition A. Based on the room temp anneal with MIL-STD-883 method 1019 paragraph 3.11.2 C; effective dose rate is 41.33 mrad(Si)/s. There were 2 parameters that showed a consistent trend during exposure and these were the worst case shift seen of all parameters tested. These are listed below.

1. $V_{OD(D)}$ Differential output voltage (dominant)

Differential output voltage – exhibits a decrease from 30 krad(Si) to 50 krad(Si) and the amount of shift from T0 to 50 krad(Si) was ~8%. The V_{OD} parameter needed a new spec of 1.4 V for 50-krad(Si) exposure, but for other condition this spec is 1.5 V.

2. I_{CC} Supply current, dominant

Supply current, dominant – exhibits an increase of I_{CC} current through increased exposure but is still with the data sheet specifications.

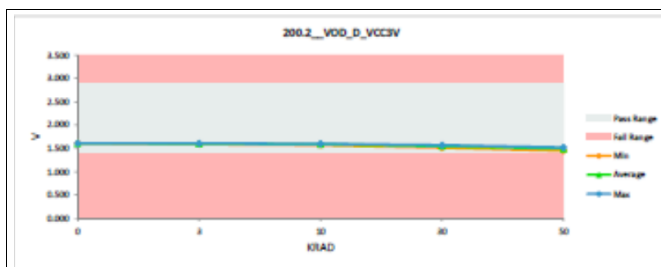


Figure 3. Radiation Exposure Effect on $V_{OD(D)}$

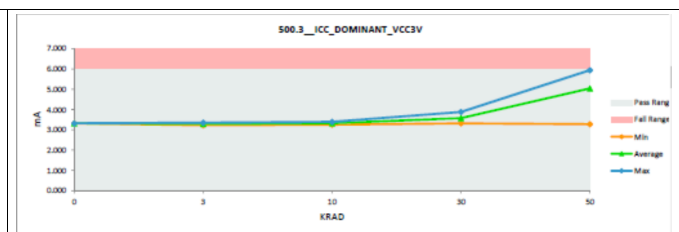


Figure 4. Radiation Exposure Effect on I_{CC} Supply Current, Dominant

3.2 Group E Full RHA Radiation Lot Acceptance (RLAT) Report

The Group E RHA RLAT summary is shipped with each TI RHA QMLV product. To see the list of all documents shipped with TI QMLV products, review *Texas Instruments QML Lot Documents (SBOA140)*. This document also has instructions on how to pull the full RHA (Group E) report.

4 Applicable and Reference Documents

4.1 Applicable Documents

[SN55HVD233-SP 3.3-V Radiation Hardened CANS Transceiver \(SLLSE12\)](#)

[SN55HVD233-SP Radiation Hardness Assured \(RHA\) Evaluation Module](#)

[SN55HVD233EVM-CVAL Evaluation Module User's Guide \(SLLU275\)](#)

4.2 Reference Documents

Texas Instruments total ionizing dose radiation (total dose) test procedure follows the standards put forth in [MIL-STD-883](#) TM 1019. The document can be found at the DLA website.

Full TID Report Graphs and Tables

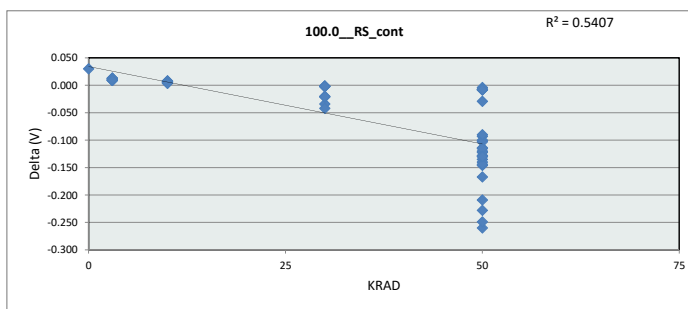
Delta Threshold 10.00%

TID Report
TID_REPORT_HVD233_HKX_HDR

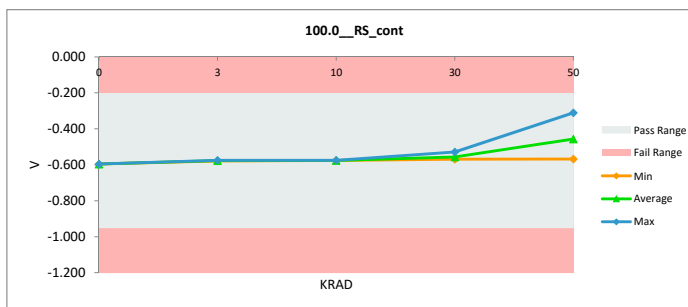
TID Report

TID_REPORT_HVD233_HKX_HDR

100.0_RS_cont				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	-0.2	-0.2		
Min Limit	-0.95	-0.95		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.566	-0.596	0.030
3	1	-0.565	-0.578	0.013
3	2	-0.565	-0.578	0.013
3	3	-0.568	-0.577	0.009
3	6	-0.565	-0.578	0.013
3	11	-0.565	-0.575	0.010
3	UB14	-0.566	-0.576	0.010
3	UB16	-0.566	-0.576	0.010
3	UB18	-0.567	-0.576	0.009
3	UB19	-0.567	-0.579	0.012
3	UB22	-0.567	-0.576	0.009
10	23	-0.568	-0.575	0.007
10	24	-0.568	-0.576	0.008
10	25	-0.568	-0.576	0.008
10	28	-0.569	-0.576	0.007
10	30	-0.569	-0.575	0.006
10	UB33	-0.570	-0.576	0.006
10	UB35	-0.570	-0.576	0.006
10	UB36	-0.571	-0.575	0.004
10	UB39	-0.571	-0.576	0.005
10	UB40	-0.571	-0.575	0.004
30	43	-0.571	-0.537	-0.034
30	44	-0.571	-0.551	-0.020
30	48	-0.572	-0.551	-0.021
30	50	-0.571	-0.550	-0.021
30	52	-0.571	-0.529	-0.042
30	UB96	-0.571	-0.569	-0.002
30	UB98	-0.571	-0.569	-0.002
30	UB99	-0.571	-0.569	-0.002
30	UB101	-0.570	-0.569	-0.001
30	UB102	-0.571	-0.569	-0.002
50	105	-0.575	-0.482	-0.093
50	108	-0.571	-0.471	-0.100
50	107	-0.571	-0.468	-0.103
50	111	-0.571	-0.311	-0.260
50	113	-0.571	-0.457	-0.114
50	114	-0.572	-0.452	-0.120
50	115	-0.571	-0.436	-0.135
50	119	-0.571	-0.449	-0.122
50	118	-0.571	-0.443	-0.128
50	121	-0.572	-0.405	-0.167
50	124	-0.571	-0.431	-0.140
50	125	-0.572	-0.363	-0.209
50	128	-0.571	-0.425	-0.146
50	130	-0.571	-0.456	-0.115
50	131	-0.571	-0.542	-0.029
50	133	-0.571	-0.427	-0.144
50	134	-0.571	-0.322	-0.249
50	135	-0.571	-0.343	-0.228
50	137	-0.571	-0.481	-0.090
50	298	-0.571	-0.442	-0.129
50	299	-0.572	-0.442	-0.130
50	UB293	-0.571	-0.564	-0.007
50	UB294	-0.572	-0.568	-0.004
50	UB295	-0.571	-0.563	-0.008
50	UB296	-0.571	-0.563	-0.008
50	UB297	-0.571	-0.563	-0.008
Max		-0.565	-0.311	0.030
Average		-0.570	-0.518	-0.051
Min		-0.575	-0.596	-0.260
Std Dev		0.002	0.076	0.077



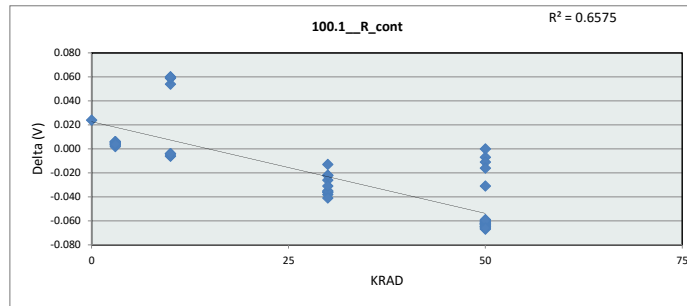
100.0_RS_cont					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.2	V			
Min Limit	-0.95	V			
KRAD	0	3	10	30	50
LL	-0.950	-0.950	-0.950	-0.950	-0.950
Min	-0.596	-0.579	-0.576	-0.569	-0.568
Average	-0.596	-0.577	-0.576	-0.556	-0.457
Max	-0.596	-0.575	-0.575	-0.529	-0.311
UL	-0.200	-0.200	-0.200	-0.200	-0.200



TID Report
TID_REPORT_HVD233_HKX_HDR

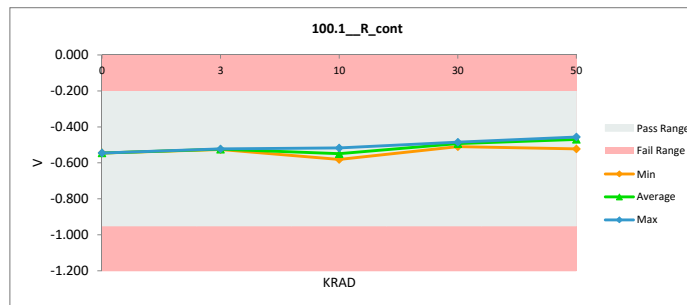
100.1_R_cont		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	-0.2	-0.2
Min Limit	-0.95	-0.95

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.521	-0.545	0.024
3	1	-0.519	-0.524	0.005
3	2	-0.519	-0.524	0.005
3	3	-0.522	-0.525	0.003
3	6	-0.520	-0.526	0.006
3	11	-0.519	-0.523	0.004
3	UB14	-0.520	-0.522	0.002
3	UB16	-0.519	-0.523	0.004
3	UB18	-0.520	-0.526	0.006
3	UB19	-0.520	-0.526	0.006
3	UB22	-0.520	-0.524	0.004
10	23	-0.522	-0.576	0.054
10	24	-0.521	-0.580	0.059
10	25	-0.522	-0.581	0.059
10	28	-0.521	-0.581	0.060
10	30	-0.520	-0.580	0.060
10	UB33	-0.523	-0.517	-0.006
10	UB35	-0.522	-0.518	-0.004
10	UB36	-0.524	-0.518	-0.006
10	UB39	-0.523	-0.519	-0.004
10	UB40	-0.523	-0.519	-0.004
30	43	-0.523	-0.485	-0.038
30	44	-0.522	-0.486	-0.036
30	48	-0.524	-0.488	-0.036
30	50	-0.522	-0.487	-0.035
30	52	-0.527	-0.486	-0.041
30	UB96	-0.521	-0.495	-0.026
30	UB98	-0.521	-0.499	-0.022
30	UB99	-0.525	-0.494	-0.031
30	UB101	-0.522	-0.500	-0.022
30	UB102	-0.523	-0.510	-0.013
50	105	-0.525	-0.462	-0.063
50	108	-0.523	-0.464	-0.059
50	107	-0.521	-0.460	-0.061
50	111	-0.523	-0.460	-0.063
50	113	-0.521	-0.459	-0.062
50	114	-0.524	-0.462	-0.062
50	115	-0.522	-0.460	-0.062
50	119	-0.522	-0.457	-0.065
50	118	-0.522	-0.457	-0.065
50	121	-0.524	-0.459	-0.065
50	124	-0.521	-0.461	-0.060
50	125	-0.525	-0.459	-0.066
50	128	-0.523	-0.460	-0.063
50	130	-0.522	-0.460	-0.062
50	131	-0.523	-0.462	-0.061
50	133	-0.523	-0.456	-0.067
50	134	-0.522	-0.458	-0.064
50	135	-0.522	-0.457	-0.065
50	137	-0.522	-0.461	-0.061
50	298	-0.522	-0.462	-0.060
50	299	-0.525	-0.459	-0.066
50	UB293	-0.522	-0.515	-0.007
50	UB294	-0.524	-0.513	-0.011
50	UB295	-0.523	-0.492	-0.031
50	UB296	-0.522	-0.506	-0.016
50	UB297	-0.522	-0.522	0.000
	Max	-0.519	-0.456	0.060
	Average	-0.522	-0.498	-0.024
	Min	-0.527	-0.581	-0.067
	Std Dev	0.002	0.037	0.038



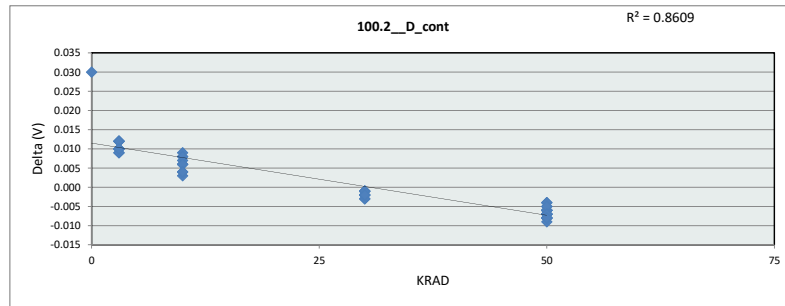
100.1_R_cont		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	-0.2	V
Min Limit	-0.95	V

	KRAD	0	3	10	30	50
LL		-0.950	-0.950	-0.950	-0.950	-0.950
Min		-0.545	-0.526	-0.581	-0.510	-0.522
Average		-0.545	-0.524	-0.549	-0.493	-0.469
Max		-0.545	-0.522	-0.517	-0.485	-0.456
UL		-0.200	-0.200	-0.200	-0.200	-0.200

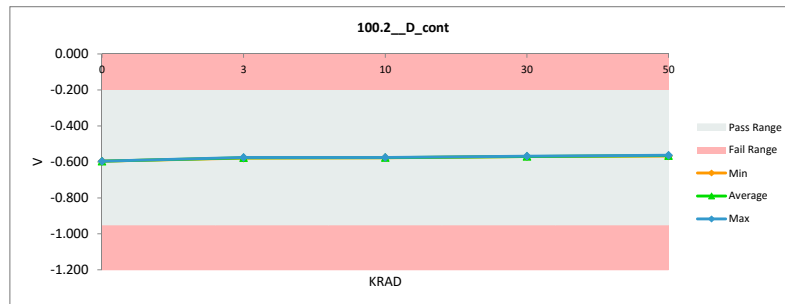


TID Report
TID_REPORT_HVD233_HKX_HDR

100.2_D_cont				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	-0.2	-0.2		
Min Limit	-0.95	-0.95		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.566	-0.596	0.030
3	1	-0.566	-0.578	0.012
3	2	-0.566	-0.578	0.012
3	3	-0.569	-0.578	0.009
3	6	-0.565	-0.577	0.012
3	11	-0.565	-0.575	0.010
3	UB14	-0.566	-0.576	0.010
3	UB16	-0.566	-0.576	0.010
3	UB18	-0.567	-0.576	0.009
3	UB19	-0.567	-0.579	0.012
3	UB22	-0.567	-0.577	0.010
10	23	-0.569	-0.576	0.007
10	24	-0.568	-0.577	0.009
10	25	-0.569	-0.577	0.008
10	28	-0.569	-0.577	0.008
10	30	-0.569	-0.575	0.006
10	UB33	-0.570	-0.576	0.006
10	UB35	-0.570	-0.576	0.006
10	UB36	-0.572	-0.575	0.003
10	UB39	-0.572	-0.576	0.004
10	UB40	-0.571	-0.575	0.004
30	43	-0.571	-0.569	-0.002
30	44	-0.571	-0.568	-0.003
30	48	-0.572	-0.570	-0.002
30	50	-0.571	-0.570	-0.001
30	52	-0.571	-0.568	-0.003
30	UB96	-0.571	-0.570	-0.001
30	UB98	-0.571	-0.570	-0.001
30	UB99	-0.572	-0.570	-0.002
30	UB101	-0.571	-0.570	-0.001
30	UB102	-0.572	-0.570	-0.002
50	105	-0.573	-0.565	-0.008
50	108	-0.571	-0.567	-0.004
50	107	-0.571	-0.567	-0.004
50	111	-0.572	-0.565	-0.007
50	113	-0.571	-0.565	-0.006
50	114	-0.572	-0.566	-0.006
50	115	-0.571	-0.564	-0.007
50	119	-0.572	-0.564	-0.008
50	118	-0.571	-0.563	-0.008
50	121	-0.572	-0.564	-0.008
50	124	-0.571	-0.565	-0.006
50	125	-0.573	-0.565	-0.008
50	128	-0.572	-0.566	-0.006
50	130	-0.571	-0.565	-0.006
50	131	-0.571	-0.565	-0.006
50	133	-0.571	-0.564	-0.007
50	134	-0.571	-0.564	-0.007
50	135	-0.571	-0.564	-0.007
50	137	-0.571	-0.564	-0.007
50	298	-0.571	-0.566	-0.005
50	299	-0.573	-0.564	-0.009
50	UB293	-0.571	-0.566	-0.005
50	UB294	-0.572	-0.565	-0.007
50	UB295	-0.572	-0.564	-0.008
50	UB296	-0.571	-0.564	-0.007
50	UB297	-0.571	-0.563	-0.008
	Max	-0.565	-0.563	0.030
	Average	-0.570	-0.570	0.000
	Min	-0.573	-0.596	-0.009
	Std Dev	0.002	0.006	0.008

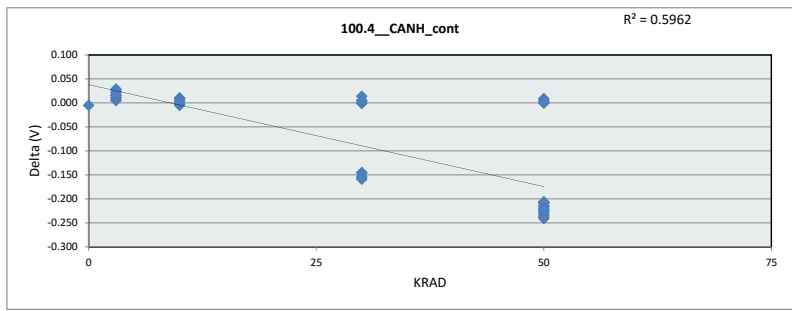


100.2_D_cont					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.2	V			
Min Limit	-0.95	V			
KRAD	0	3	10	30	50
LL	-0.950	-0.950	-0.950	-0.950	-0.950
Min	-0.596	-0.579	-0.577	-0.570	-0.567
Average	-0.596	-0.577	-0.576	-0.570	-0.565
Max	-0.596	-0.575	-0.575	-0.568	-0.563
UL	-0.200	-0.200	-0.200	-0.200	-0.200

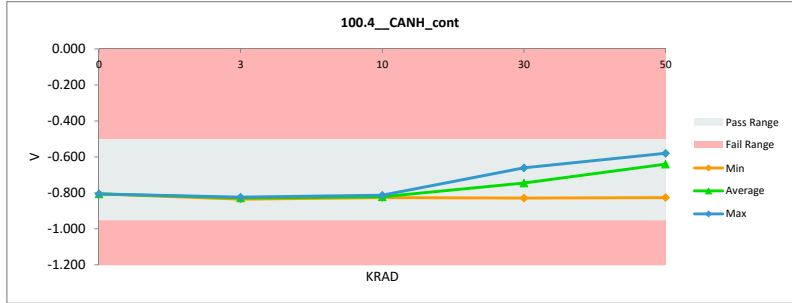


TID Report
TID_REPORT_HVD233_HKX_HDR

100.4_CANH_cont				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	-0.5	-0.5		
Min Limit	-0.95	-0.95		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.811	-0.806	-0.005
3	1	-0.818	-0.825	0.007
3	2	-0.814	-0.829	0.015
3	3	-0.819	-0.824	0.005
3	6	-0.806	-0.835	0.029
3	11	-0.816	-0.827	0.011
3	UB14	-0.813	-0.829	0.016
3	UB16	-0.809	-0.831	0.022
3	UB18	-0.813	-0.824	0.011
3	UB19	-0.809	-0.835	0.026
3	UB22	-0.809	-0.826	0.017
10	23	-0.819	-0.826	0.007
10	24	-0.815	-0.823	0.008
10	25	-0.812	-0.822	0.010
10	28	-0.821	-0.816	-0.005
10	30	-0.815	-0.813	-0.002
10	UB33	-0.815	-0.825	0.010
10	UB35	-0.816	-0.826	0.010
10	UB36	-0.818	-0.826	0.008
10	UB39	-0.825	-0.822	-0.003
10	UB40	-0.819	-0.822	0.003
30	43	-0.822	-0.669	-0.153
30	44	-0.815	-0.669	-0.146
30	48	-0.824	-0.668	-0.156
30	50	-0.814	-0.669	-0.145
30	52	-0.820	-0.661	-0.159
30	UB96	-0.816	-0.821	0.005
30	UB98	-0.821	-0.820	-0.001
30	UB99	-0.815	-0.829	0.014
30	UB101	-0.820	-0.821	0.001
30	UB102	-0.820	-0.825	0.005
50	105	-0.827	-0.593	-0.234
50	108	-0.814	-0.607	-0.207
50	107	-0.821	-0.591	-0.230
50	111	-0.821	-0.580	-0.241
50	113	-0.819	-0.610	-0.209
50	114	-0.820	-0.612	-0.208
50	115	-0.817	-0.596	-0.221
50	119	-0.816	-0.610	-0.206
50	118	-0.814	-0.599	-0.215
50	121	-0.823	-0.584	-0.239
50	124	-0.820	-0.595	-0.225
50	125	-0.823	-0.587	-0.236
50	128	-0.819	-0.593	-0.226
50	130	-0.817	-0.601	-0.216
50	131	-0.814	-0.598	-0.216
50	133	-0.814	-0.598	-0.216
50	134	-0.816	-0.590	-0.226
50	135	-0.817	-0.591	-0.226
50	137	-0.821	-0.612	-0.209
50	298	-0.827	-0.600	-0.227
50	299	-0.821	-0.600	-0.221
50	UB293	-0.820	-0.820	0.000
50	UB294	-0.817	-0.826	0.009
50	UB295	-0.818	-0.818	0.000
50	UB296	-0.818	-0.824	0.006
50	UB297	-0.818	-0.821	0.003
	Max	-0.806	-0.580	0.029
	Average	-0.817	-0.727	-0.091
	Min	-0.827	-0.835	-0.241
	Std Dev	0.004	0.109	0.111

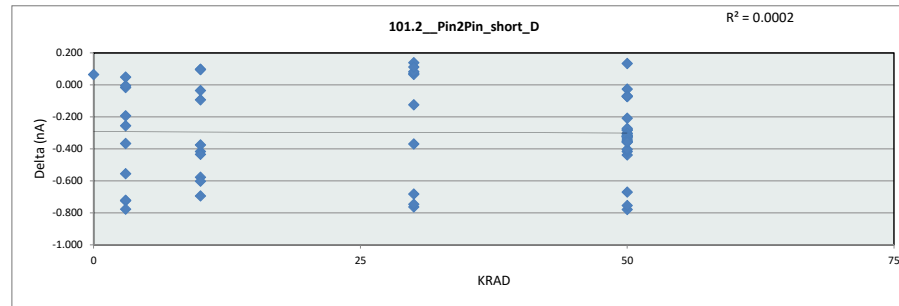


100.4_CANH_cont					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.5	V			
Min Limit	-0.95	V			
KRAD	0	3	10	30	50
LL	-0.950	-0.950	-0.950	-0.950	-0.950
Min	-0.806	-0.835	-0.826	-0.829	-0.826
Average	-0.806	-0.829	-0.822	-0.745	-0.641
Max	-0.806	-0.824	-0.813	-0.661	-0.580
UL	-0.500	-0.500	-0.500	-0.500	-0.500

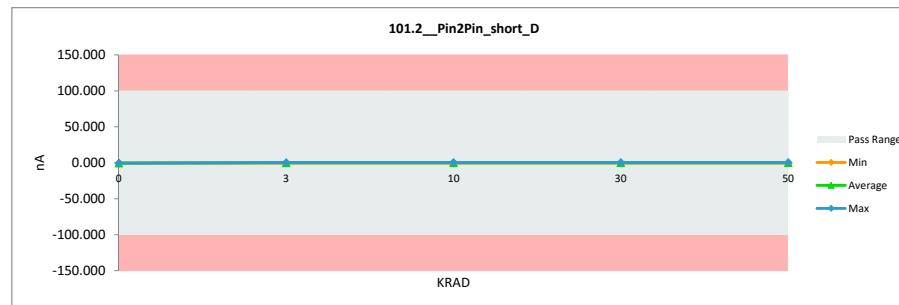


TID Report
TID_REPORT_HVD233_HKX_HDR

101.2_Pin2Pin_short_D				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	nA	nA		
Max Limit	100	100		
Min Limit	-100	-100		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.290	-0.354	0.065
3	1	-0.251	-0.235	-0.016
3	2	-0.258	0.466	-0.724
3	3	-0.252	0.304	-0.555
3	6	-0.265	-0.259	-0.006
3	11	-0.236	0.485	-0.721
3	UB14	-0.226	-0.033	-0.193
3	UB16	-0.255	-0.304	0.049
3	UB18	-0.256	0.521	-0.777
3	UB19	-0.245	0.010	-0.255
3	UB22	-0.277	0.090	-0.366
10	23	-0.252	0.164	-0.416
10	24	-0.262	0.113	-0.375
10	25	-0.247	0.447	-0.694
10	28	-0.265	0.170	-0.434
10	30	-0.261	0.316	-0.577
10	UB33	-0.229	-0.327	0.098
10	UB35	-0.267	-0.362	0.096
10	UB36	-0.259	-0.165	-0.093
10	UB39	-0.252	0.350	-0.602
10	UB40	-0.245	-0.211	-0.035
30	43	-0.256	0.507	-0.763
30	44	-0.248	0.498	-0.747
30	48	-0.253	-0.391	0.138
30	50	-0.265	-0.330	0.065
30	52	-0.241	-0.314	0.073
30	UB96	-0.219	-0.302	0.083
30	UB98	-0.263	-0.375	0.112
30	UB99	-0.259	0.423	-0.682
30	UB101	-0.267	-0.143	-0.124
30	UB102	-0.252	0.118	-0.370
50	105	-0.268	0.510	-0.779
50	108	-0.240	-0.172	-0.069
50	107	-0.290	0.148	-0.438
50	111	-0.258	0.023	-0.281
50	113	-0.292	-0.266	-0.026
50	114	-0.267	-0.058	-0.208
50	115	-0.239	-0.372	0.133
50	119	-0.259	0.495	-0.754
50	118	-0.264	-0.191	-0.073
50	121	-0.269	-0.198	-0.071
50	124	-0.253	0.417	-0.670
50	125	-0.260	0.023	-0.283
50	128	-0.230	0.088	-0.318
50	130	-0.234	0.038	-0.272
50	131	-0.264	0.042	-0.306
50	133	-0.281	0.071	-0.352
50	134	-0.270	0.061	-0.331
50	135	-0.263	0.056	-0.319
50	137	-0.279	0.023	-0.302
50	298	-0.277	0.080	-0.357
50	299	-0.278	0.045	-0.323
50	UB293	-0.255	0.068	-0.323
50	UB294	-0.266	0.150	-0.416
50	UB295	-0.242	0.103	-0.344
50	UB296	-0.245	0.158	-0.404
50	UB297	-0.259	0.098	-0.357
	Max	-0.219	0.521	0.138
	Average	-0.257	0.041	-0.298
	Min	-0.292	-0.391	-0.779
	Std Dev	0.016	0.277	0.278



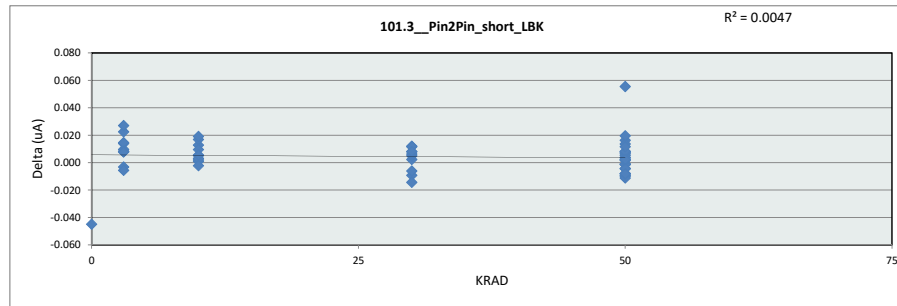
101.2_Pin2Pin_short_D					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	100	nA			
Min Limit	-100	nA			
KRAD	0	3	10	30	50
LL	-100.000	-100.000	-100.000	-100.000	-100.000
Min	-0.354	-0.304	-0.362	-0.391	-0.372
Average	-0.354	0.104	0.049	-0.031	0.055
Max	-0.354	0.521	0.447	0.507	0.510
UL	100.000	100.000	100.000	100.000	100.000



TID Report
TID_REPORT_HVD233_HKX_HDR

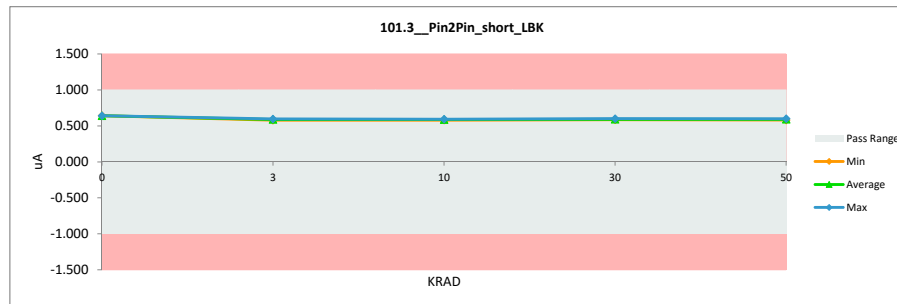
101.3_Pin2Pin_short_LBK		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	1	1
Min Limit	-1	-1

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.596	0.641	-0.045
3	1	0.594	0.597	-0.003
3	2	0.602	0.592	0.010
3	3	0.587	0.593	-0.006
3	6	0.609	0.587	0.022
3	11	0.595	0.587	0.008
3	UB14	0.605	0.591	0.014
3	UB16	0.594	0.580	0.014
3	UB18	0.595	0.587	0.008
3	UB19	0.606	0.579	0.027
3	UB22	0.605	0.597	0.008
10	23	0.587	0.582	0.005
10	24	0.594	0.581	0.013
10	25	0.598	0.582	0.017
10	28	0.591	0.590	0.001
10	30	0.594	0.592	0.002
10	UB33	0.607	0.588	0.019
10	UB35	0.595	0.592	0.003
10	UB36	0.590	0.580	0.010
10	UB39	0.592	0.594	-0.002
10	UB40	0.599	0.593	0.006
30	43	0.588	0.585	0.002
30	44	0.598	0.593	0.005
30	48	0.585	0.595	-0.009
30	50	0.603	0.591	0.012
30	52	0.603	0.596	0.006
30	UB96	0.595	0.587	0.008
30	UB98	0.584	0.590	-0.006
30	UB99	0.598	0.586	0.012
30	UB101	0.588	0.602	-0.014
30	UB102	0.595	0.587	0.008
50	105	0.592	0.596	-0.005
50	108	0.648	0.592	0.056
50	107	0.588	0.589	-0.001
50	111	0.589	0.599	-0.010
50	113	0.597	0.581	0.016
50	114	0.585	0.581	0.004
50	115	0.599	0.600	-0.001
50	119	0.603	0.590	0.014
50	118	0.600	0.592	0.008
50	121	0.583	0.593	-0.010
50	124	0.592	0.600	-0.008
50	125	0.585	0.596	-0.011
50	128	0.601	0.594	0.006
50	130	0.596	0.592	0.003
50	131	0.600	0.595	0.005
50	133	0.603	0.583	0.020
50	134	0.592	0.590	0.002
50	135	0.592	0.585	0.007
50	137	0.590	0.592	-0.001
50	298	0.587	0.595	-0.008
50	299	0.593	0.591	0.002
50	UB293	0.588	0.592	-0.004
50	UB294	0.597	0.589	0.008
50	UB295	0.591	0.599	-0.008
50	UB296	0.588	0.586	0.002
50	UB297	0.599	0.588	0.012
	Max	0.648	0.641	0.056
	Average	0.596	0.591	0.004
	Min	0.583	0.579	-0.045
	Std Dev	0.009	0.009	0.013



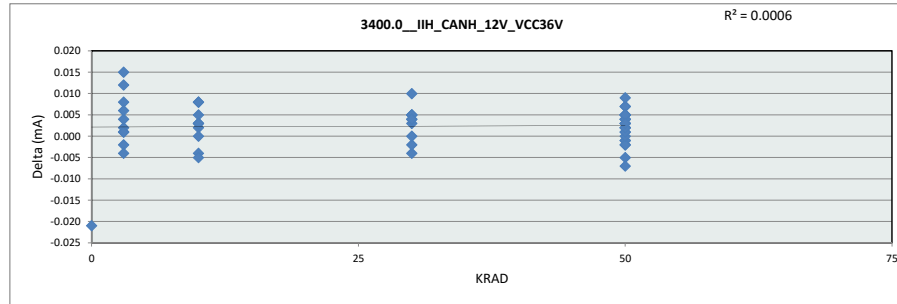
101.3_Pin2Pin_short_LBK		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	1	uA
Min Limit	-1	uA

	KRAD	0	3	10	30	50
LL		-1.000	-1.000	-1.000	-1.000	-1.000
Min		0.641	0.579	0.580	0.585	0.581
Average		0.641	0.589	0.587	0.591	0.592
Max		0.641	0.597	0.594	0.602	0.600
UL		1.000	1.000	1.000	1.000	1.000

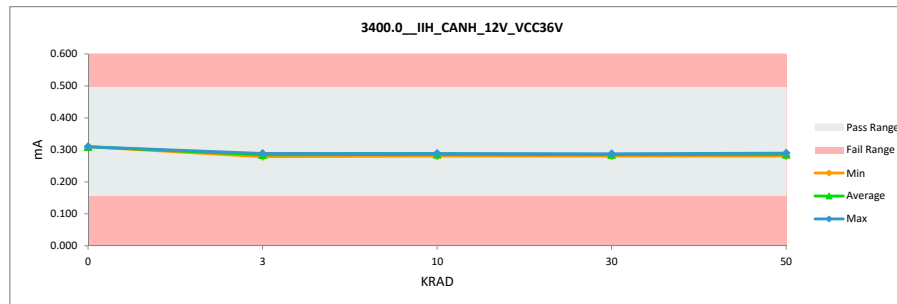


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.0_IIH_CANH_12V_VCC36				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.495	0.495		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.289	0.310	-0.021
3	1	0.285	0.287	-0.002
3	2	0.287	0.285	0.002
3	3	0.285	0.289	-0.004
3	6	0.294	0.279	0.015
3	11	0.286	0.285	0.001
3	UB14	0.289	0.285	0.004
3	UB16	0.291	0.283	0.008
3	UB18	0.290	0.289	0.001
3	UB19	0.293	0.281	0.012
3	UB22	0.293	0.287	0.006
10	23	0.285	0.282	0.003
10	24	0.289	0.281	0.008
10	25	0.292	0.284	0.008
10	28	0.284	0.288	-0.004
10	30	0.290	0.288	0.002
10	UB33	0.290	0.287	0.003
10	UB35	0.290	0.285	0.005
10	UB36	0.288	0.285	0.003
10	UB39	0.284	0.289	-0.005
10	UB40	0.288	0.288	0.000
30	43	0.286	0.281	0.005
30	44	0.291	0.286	0.005
30	48	0.284	0.288	-0.004
30	50	0.292	0.287	0.005
30	52	0.288	0.285	0.003
30	UB96	0.290	0.286	0.004
30	UB98	0.286	0.288	-0.002
30	UB99	0.292	0.282	0.010
30	UB101	0.287	0.287	0.000
30	UB102	0.288	0.284	0.004
50	105	0.283	0.288	-0.005
50	108	0.292	0.285	0.007
50	107	0.287	0.282	0.005
50	111	0.287	0.285	0.002
50	113	0.287	0.284	0.003
50	114	0.287	0.283	0.004
50	115	0.290	0.286	0.004
50	119	0.290	0.285	0.005
50	118	0.292	0.287	0.005
50	121	0.285	0.286	-0.001
50	124	0.287	0.288	-0.001
50	125	0.285	0.287	-0.002
50	128	0.288	0.286	0.002
50	130	0.290	0.287	0.003
50	131	0.291	0.290	0.001
50	133	0.292	0.285	0.007
50	134	0.290	0.285	0.005
50	135	0.289	0.285	0.004
50	137	0.287	0.289	-0.002
50	298	0.282	0.289	-0.007
50	299	0.287	0.287	0.000
50	UB293	0.288	0.287	0.001
50	UB294	0.290	0.281	0.009
50	UB295	0.289	0.287	0.002
50	UB296	0.289	0.284	0.005
50	UB297	0.288	0.285	0.003
	Max	0.294	0.310	0.015
	Average	0.288	0.286	0.002
	Min	0.282	0.279	-0.021
	Std Dev	0.003	0.004	0.005

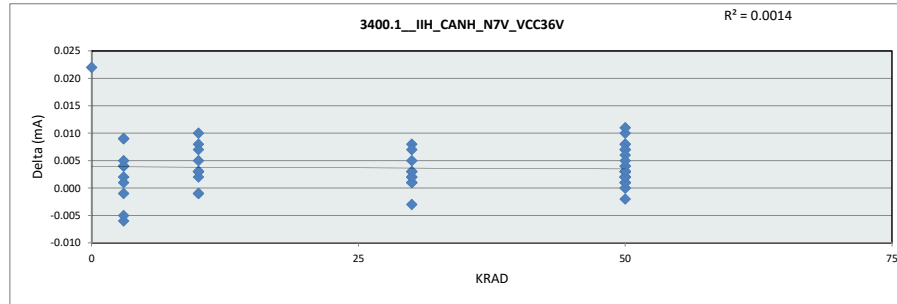


3400.0_IIH_CANH_12V_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.495	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.310	0.279	0.281	0.281	0.281
Average	0.310	0.285	0.286	0.285	0.286
Max	0.310	0.289	0.289	0.288	0.290
UL	0.495	0.495	0.495	0.495	0.495

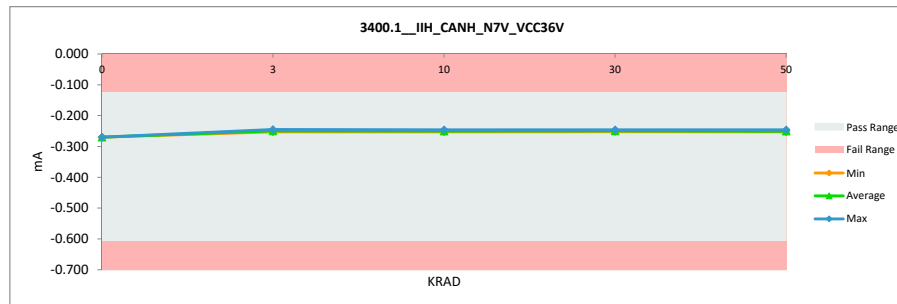


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.1_IIH_CANH_N7V_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	-0.123	-0.123		
Min Limit	-0.605	-0.605		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.248	-0.270	0.022
3	1	-0.243	-0.252	0.009
3	2	-0.246	-0.250	0.004
3	3	-0.244	-0.253	0.009
3	6	-0.251	-0.245	-0.006
3	11	-0.245	-0.249	0.004
3	UB14	-0.247	-0.249	0.002
3	UB16	-0.249	-0.248	-0.001
3	UB18	-0.248	-0.253	0.005
3	UB19	-0.251	-0.246	-0.005
3	UB22	-0.250	-0.251	0.001
10	23	-0.244	-0.247	0.003
10	24	-0.247	-0.246	-0.001
10	25	-0.250	-0.249	-0.001
10	28	-0.244	-0.252	0.008
10	30	-0.248	-0.253	0.005
10	UB33	-0.248	-0.251	0.003
10	UB35	-0.248	-0.250	0.002
10	UB36	-0.247	-0.250	0.003
10	UB39	-0.243	-0.253	0.010
10	UB40	-0.246	-0.253	0.007
30	43	-0.245	-0.246	0.001
30	44	-0.249	-0.251	0.002
30	48	-0.244	-0.252	0.008
30	50	-0.250	-0.251	0.001
30	52	-0.246	-0.249	0.003
30	UB96	-0.248	-0.250	0.002
30	UB98	-0.245	-0.252	0.007
30	UB99	-0.250	-0.247	-0.003
30	UB101	-0.246	-0.251	0.005
30	UB102	-0.246	-0.249	0.003
50	105	-0.242	-0.252	0.010
50	108	-0.250	-0.250	0.000
50	107	-0.246	-0.247	0.001
50	111	-0.246	-0.250	0.004
50	113	-0.246	-0.249	0.003
50	114	-0.246	-0.248	0.002
50	115	-0.248	-0.250	0.002
50	119	-0.248	-0.250	0.002
50	118	-0.250	-0.252	0.002
50	121	-0.244	-0.251	0.007
50	124	-0.245	-0.253	0.008
50	125	-0.244	-0.252	0.008
50	128	-0.247	-0.251	0.004
50	130	-0.248	-0.251	0.003
50	131	-0.250	-0.253	0.003
50	133	-0.250	-0.250	0.000
50	134	-0.249	-0.250	0.001
50	135	-0.248	-0.249	0.001
50	137	-0.245	-0.252	0.007
50	298	-0.242	-0.253	0.011
50	299	-0.246	-0.252	0.006
50	UB293	-0.246	-0.251	0.005
50	UB294	-0.248	-0.246	-0.002
50	UB295	-0.248	-0.251	0.003
50	UB296	-0.247	-0.249	0.002
50	UB297	-0.247	-0.250	0.003
	Max	-0.242	-0.245	0.022
	Average	-0.247	-0.251	0.004
	Min	-0.251	-0.270	-0.006
	Std Dev	0.002	0.003	0.004



3400.1_IIH_CANH_N7V_VCC					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.123	mA			
Min Limit	-0.605	mA			
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.270	-0.253	-0.253	-0.252	-0.253
Average	-0.270	-0.250	-0.250	-0.250	-0.250
Max	-0.270	-0.245	-0.246	-0.246	-0.246
UL	-0.123	-0.123	-0.123	-0.123	-0.123

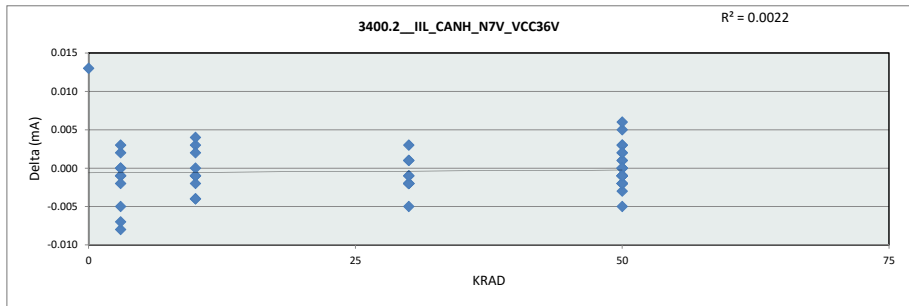


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.2_IIL_CANH_N7V_VCC36

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

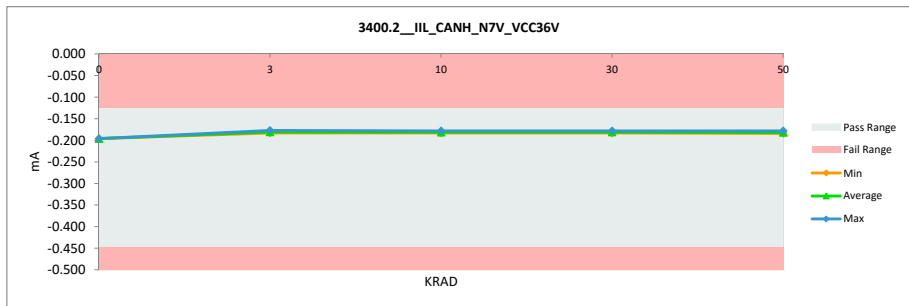
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.183	-0.196	0.013
3	1	-0.180	-0.182	0.002
3	2	-0.181	-0.181	0.000
3	3	-0.180	-0.183	0.003
3	6	-0.185	-0.177	-0.008
3	11	-0.181	-0.180	-0.001
3	UB14	-0.182	-0.181	-0.001
3	UB16	-0.184	-0.179	-0.005
3	UB18	-0.183	-0.183	0.000
3	UB19	-0.185	-0.178	-0.007
3	UB22	-0.184	-0.182	-0.002
10	23	-0.180	-0.179	-0.001
10	24	-0.182	-0.178	-0.004
10	25	-0.184	-0.180	-0.004
10	28	-0.180	-0.183	0.003
10	30	-0.183	-0.183	0.000
10	UB33	-0.183	-0.182	-0.001
10	UB35	-0.183	-0.181	-0.002
10	UB36	-0.182	-0.181	-0.001
10	UB39	-0.179	-0.183	0.004
10	UB40	-0.181	-0.183	0.002
30	43	-0.180	-0.178	-0.002
30	44	-0.184	-0.182	-0.002
30	48	-0.180	-0.183	0.003
30	50	-0.184	-0.182	-0.002
30	52	-0.182	-0.181	-0.001
30	UB96	-0.183	-0.181	-0.002
30	UB98	-0.181	-0.182	0.001
30	UB99	-0.184	-0.179	-0.005
30	UB101	-0.181	-0.182	0.001
30	UB102	-0.181	-0.180	-0.001
50	105	-0.178	-0.183	0.005
50	108	-0.184	-0.182	-0.002
50	107	-0.181	-0.180	-0.001
50	111	-0.181	-0.182	0.001
50	113	-0.182	-0.181	-0.001
50	114	-0.181	-0.180	-0.001
50	115	-0.183	-0.182	-0.001
50	119	-0.183	-0.181	-0.002
50	118	-0.184	-0.183	-0.001
50	121	-0.180	-0.181	0.001
50	124	-0.181	-0.184	0.003
50	125	-0.180	-0.183	0.003
50	128	-0.182	-0.182	0.000
50	130	-0.183	-0.182	-0.001
50	131	-0.184	-0.184	0.000
50	133	-0.184	-0.181	-0.003
50	134	-0.183	-0.181	-0.002
50	135	-0.183	-0.181	-0.002
50	137	-0.181	-0.183	0.002
50	298	-0.178	-0.184	0.006
50	299	-0.181	-0.183	0.002
50	UB293	-0.182	-0.182	0.000
50	UB294	-0.183	-0.178	-0.005
50	UB295	-0.182	-0.182	0.000
50	UB296	-0.182	-0.180	-0.002
50	UB297	-0.182	-0.181	-0.001
	Max	-0.178	-0.177	0.013
	Average	-0.182	-0.182	0.000
	Min	-0.185	-0.196	-0.008
	Std Dev	0.002	0.003	0.003



3400.2_IIL_CANH_N7V_VCC36

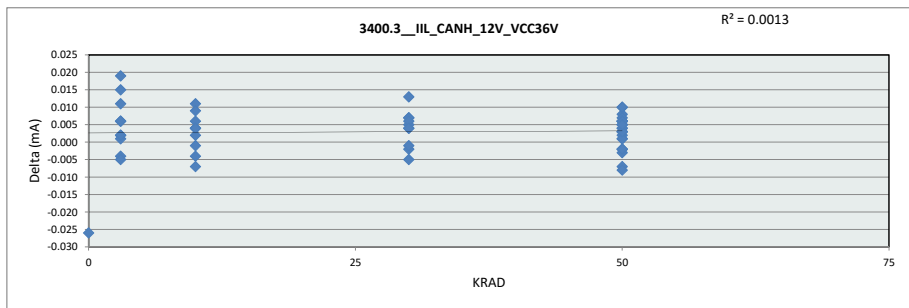
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	-0.123 mA
Min Limit	-0.445 mA

	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.196	-0.183	-0.183	-0.183	-0.184
Average	-0.196	-0.181	-0.181	-0.181	-0.182
Max	-0.196	-0.177	-0.178	-0.178	-0.178
UL	-0.123	-0.123	-0.123	-0.123	-0.123

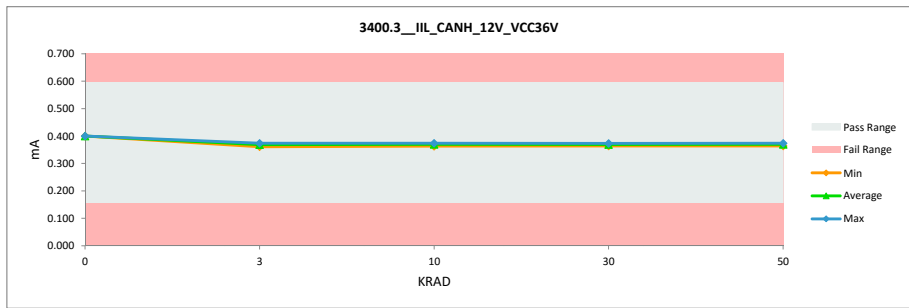


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.3_IIL_CANH_12V_VCC36				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.595	0.595		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.374	0.400	-0.026
3	1	0.368	0.372	-0.004
3	2	0.371	0.369	0.002
3	3	0.369	0.374	-0.005
3	6	0.380	0.361	0.019
3	11	0.370	0.369	0.001
3	UB14	0.374	0.368	0.006
3	UB16	0.377	0.366	0.011
3	UB18	0.375	0.373	0.002
3	UB19	0.379	0.364	0.015
3	UB22	0.378	0.372	0.006
10	23	0.369	0.365	0.004
10	24	0.374	0.363	0.011
10	25	0.377	0.368	0.009
10	28	0.368	0.372	-0.004
10	30	0.375	0.373	0.002
10	UB33	0.375	0.371	0.004
10	UB35	0.375	0.369	0.006
10	UB36	0.373	0.369	0.004
10	UB39	0.367	0.374	-0.007
10	UB40	0.372	0.373	-0.001
30	43	0.369	0.364	0.005
30	44	0.377	0.370	0.007
30	48	0.368	0.373	-0.005
30	50	0.378	0.371	0.007
30	52	0.372	0.368	0.004
30	UB96	0.375	0.369	0.006
30	UB98	0.370	0.372	-0.002
30	UB99	0.377	0.364	0.013
30	UB101	0.371	0.372	-0.001
30	UB102	0.372	0.368	0.004
50	105	0.366	0.373	-0.007
50	108	0.377	0.369	0.008
50	107	0.370	0.365	0.005
50	111	0.371	0.368	0.003
50	113	0.371	0.367	0.004
50	114	0.371	0.365	0.006
50	115	0.375	0.370	0.005
50	119	0.375	0.369	0.006
50	118	0.378	0.372	0.006
50	121	0.368	0.370	-0.002
50	124	0.371	0.373	-0.002
50	125	0.368	0.371	-0.003
50	128	0.372	0.370	0.002
50	130	0.375	0.371	0.004
50	131	0.377	0.374	0.003
50	133	0.378	0.368	0.010
50	134	0.375	0.368	0.007
50	135	0.374	0.368	0.006
50	137	0.371	0.373	-0.002
50	298	0.365	0.373	-0.008
50	299	0.372	0.371	0.001
50	UB293	0.372	0.371	0.001
50	UB294	0.374	0.364	0.010
50	UB295	0.374	0.371	0.003
50	UB296	0.373	0.367	0.006
50	UB297	0.373	0.368	0.005
	Max	0.380	0.400	0.019
	Average	0.373	0.370	0.003
	Min	0.365	0.361	-0.026
	Std Dev	0.004	0.005	0.007

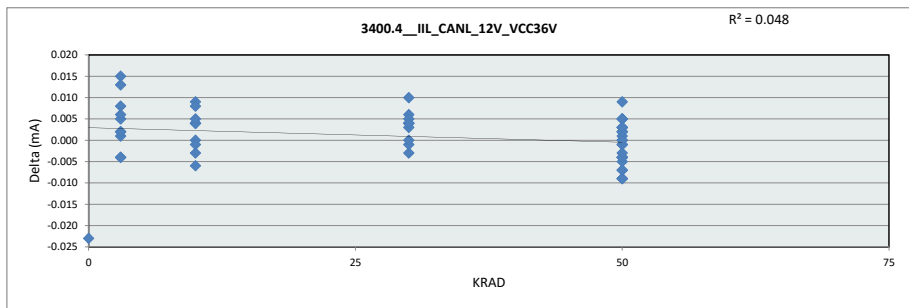


3400.3_IIL_CANH_12V_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.595	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.400	0.361	0.363	0.364	0.364
Average	0.400	0.369	0.370	0.369	0.370
Max	0.400	0.374	0.374	0.373	0.374
UL	0.595	0.595	0.595	0.595	0.595

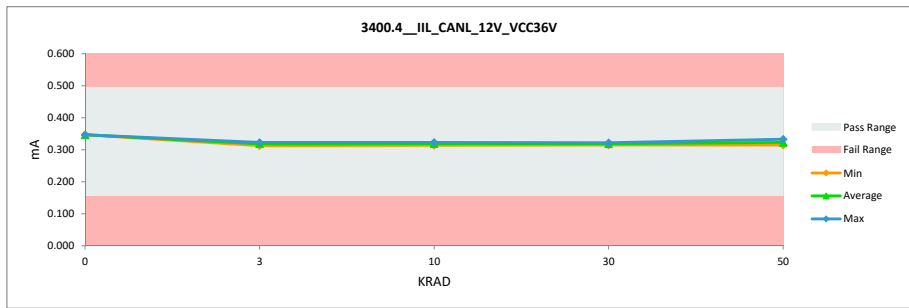


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.4_IIL_CANL_12V_VCC36				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.495	0.495		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.324	0.347	-0.023
3	1	0.318	0.322	-0.004
3	2	0.321	0.319	0.002
3	3	0.319	0.323	-0.004
3	6	0.328	0.313	0.015
3	11	0.320	0.319	0.001
3	UB14	0.323	0.318	0.005
3	UB16	0.325	0.317	0.008
3	UB18	0.324	0.322	0.002
3	UB19	0.327	0.314	0.013
3	UB22	0.327	0.321	0.006
10	23	0.319	0.315	0.004
10	24	0.323	0.314	0.009
10	25	0.326	0.318	0.008
10	28	0.318	0.321	-0.003
10	30	0.323	0.323	0.000
10	UB33	0.324	0.320	0.004
10	UB35	0.323	0.319	0.004
10	UB36	0.323	0.318	0.005
10	UB39	0.317	0.323	-0.006
10	UB40	0.321	0.322	-0.001
30	43	0.319	0.315	0.004
30	44	0.325	0.319	0.006
30	48	0.319	0.322	-0.003
30	50	0.326	0.321	0.005
30	52	0.321	0.318	0.003
30	UB96	0.323	0.319	0.004
30	UB98	0.320	0.321	-0.001
30	UB99	0.325	0.315	0.010
30	UB101	0.321	0.321	0.000
30	UB102	0.322	0.318	0.004
50	105	0.316	0.323	-0.007
50	108	0.326	0.321	0.005
50	107	0.320	0.317	0.003
50	111	0.320	0.329	-0.009
50	113	0.321	0.321	0.000
50	114	0.321	0.318	0.003
50	115	0.324	0.322	0.002
50	119	0.325	0.324	0.001
50	118	0.326	0.331	-0.005
50	121	0.318	0.322	-0.004
50	124	0.321	0.325	-0.004
50	125	0.318	0.325	-0.007
50	128	0.322	0.323	-0.001
50	130	0.324	0.322	0.002
50	131	0.325	0.326	-0.001
50	133	0.326	0.321	0.005
50	134	0.324	0.333	-0.009
50	135	0.323	0.327	-0.004
50	137	0.320	0.324	-0.004
50	298	0.316	0.325	-0.009
50	299	0.321	0.324	-0.003
50	UB293	0.321	0.321	0.000
50	UB294	0.324	0.315	0.009
50	UB295	0.323	0.321	0.002
50	UB296	0.322	0.317	0.005
50	UB297	0.322	0.319	0.003
	Max	0.328	0.347	0.015
	Average	0.322	0.321	0.001
	Min	0.316	0.313	-0.023
	Std Dev	0.003	0.005	0.006

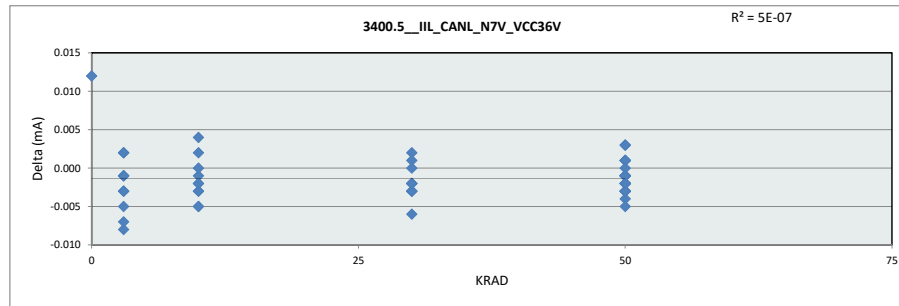


3400.4_IIL_CANL_12V_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.495	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.347	0.313	0.314	0.315	0.315
Average	0.347	0.319	0.319	0.319	0.323
Max	0.347	0.323	0.323	0.322	0.333
UL	0.495	0.495	0.495	0.495	0.495

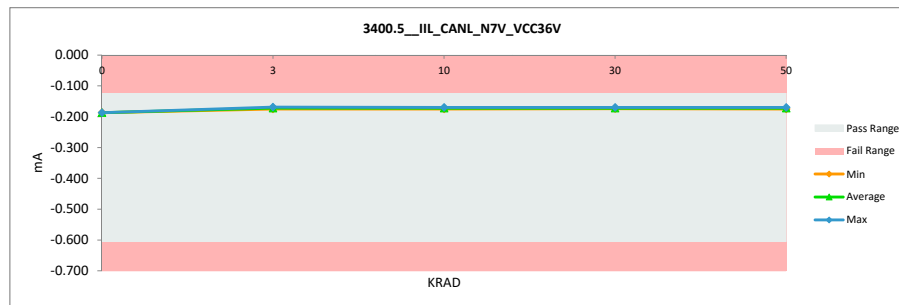


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.5_IIL_CANL_N7V_VCC36				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	-0.123	-0.123		
Min Limit	-0.605	-0.605		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.175	-0.187	0.012
3	1	-0.172	-0.174	0.002
3	2	-0.173	-0.172	-0.001
3	3	-0.173	-0.175	0.002
3	6	-0.177	-0.169	-0.008
3	11	-0.173	-0.172	-0.001
3	UB14	-0.175	-0.172	-0.003
3	UB16	-0.176	-0.171	-0.005
3	UB18	-0.175	-0.174	-0.001
3	UB19	-0.177	-0.170	-0.007
3	UB22	-0.176	-0.173	-0.003
10	23	-0.173	-0.170	-0.003
10	24	-0.175	-0.170	-0.005
10	25	-0.176	-0.171	-0.005
10	28	-0.172	-0.174	0.002
10	30	-0.175	-0.174	-0.001
10	UB33	-0.175	-0.173	-0.002
10	UB35	-0.175	-0.172	-0.003
10	UB36	-0.174	-0.172	-0.002
10	UB39	-0.171	-0.175	0.004
10	UB40	-0.174	-0.174	0.000
30	43	-0.172	-0.170	-0.002
30	44	-0.176	-0.173	-0.003
30	48	-0.172	-0.174	0.002
30	50	-0.176	-0.173	-0.003
30	52	-0.174	-0.172	-0.002
30	UB96	-0.175	-0.172	-0.003
30	UB98	-0.173	-0.174	0.001
30	UB99	-0.176	-0.170	-0.006
30	UB101	-0.173	-0.173	0.000
30	UB102	-0.174	-0.172	-0.002
50	105	-0.171	-0.174	0.003
50	108	-0.176	-0.173	-0.003
50	107	-0.173	-0.171	-0.002
50	111	-0.173	-0.172	-0.001
50	113	-0.173	-0.172	-0.001
50	114	-0.173	-0.171	-0.002
50	115	-0.175	-0.173	-0.002
50	119	-0.175	-0.172	-0.003
50	118	-0.176	-0.174	-0.002
50	121	-0.172	-0.173	0.001
50	124	-0.173	-0.174	0.001
50	125	-0.172	-0.173	0.001
50	128	-0.174	-0.173	-0.001
50	130	-0.175	-0.173	-0.002
50	131	-0.176	-0.175	-0.001
50	133	-0.176	-0.172	-0.004
50	134	-0.175	-0.172	-0.003
50	135	-0.175	-0.172	-0.003
50	137	-0.173	-0.174	0.001
50	298	-0.171	-0.174	0.003
50	299	-0.173	-0.173	0.000
50	UB293	-0.174	-0.173	-0.001
50	UB294	-0.175	-0.170	-0.005
50	UB295	-0.174	-0.173	-0.001
50	UB296	-0.174	-0.171	-0.003
50	UB297	-0.174	-0.172	-0.002
	Max	-0.171	-0.169	0.012
	Average	-0.174	-0.173	-0.001
	Min	-0.177	-0.187	-0.008
	Std Dev	0.002	0.002	0.003



3400.5_IIL_CANL_N7V_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.123	mA			
Min Limit	-0.605	mA			
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.187	-0.175	-0.175	-0.174	-0.175
Average	-0.187	-0.172	-0.173	-0.172	-0.173
Max	-0.187	-0.169	-0.170	-0.170	-0.170
UL	-0.123	-0.123	-0.123	-0.123	-0.123

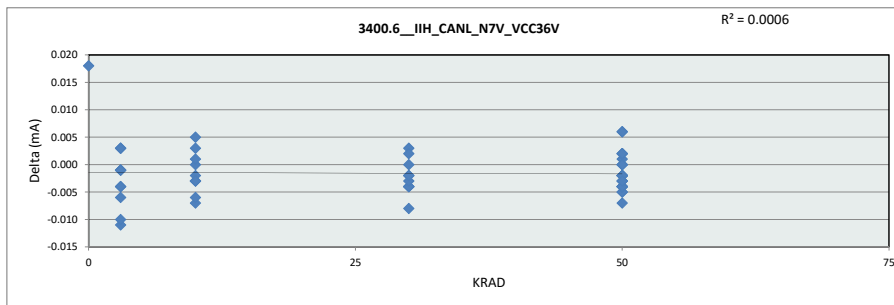


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.6_IH_CANL_N7V_VCC36

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

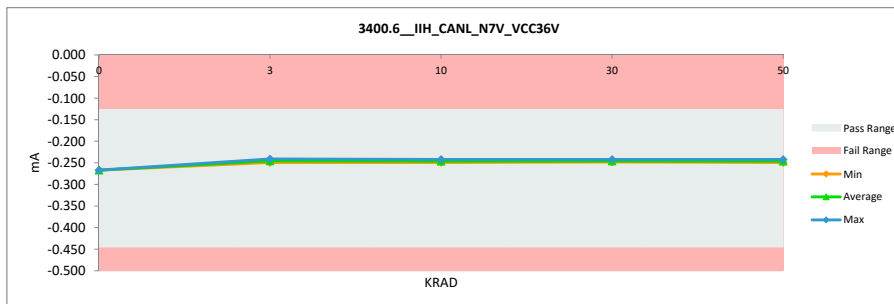
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.249	-0.267	0.018
3	1	-0.245	-0.248	0.003
3	2	-0.247	-0.246	-0.001
3	3	-0.246	-0.249	0.003
3	6	-0.252	-0.241	-0.011
3	11	-0.246	-0.245	-0.001
3	UB14	-0.249	-0.245	-0.004
3	UB16	-0.250	-0.244	-0.006
3	UB18	-0.249	-0.248	-0.001
3	UB19	-0.252	-0.242	-0.010
3	UB22	-0.251	-0.247	-0.004
10	23	-0.246	-0.243	-0.003
10	24	-0.249	-0.242	-0.007
10	25	-0.251	-0.245	-0.006
10	28	-0.245	-0.248	0.003
10	30	-0.249	-0.249	0.000
10	UB33	-0.249	-0.247	-0.002
10	UB35	-0.249	-0.246	-0.003
10	UB36	-0.248	-0.245	-0.003
10	UB39	-0.244	-0.249	0.005
10	UB40	-0.247	-0.248	0.001
30	43	-0.246	-0.242	-0.004
30	44	-0.250	-0.246	-0.004
30	48	-0.245	-0.248	0.003
30	50	-0.251	-0.247	-0.004
30	52	-0.247	-0.245	-0.002
30	UB96	-0.249	-0.246	-0.003
30	UB98	-0.246	-0.248	0.002
30	UB99	-0.251	-0.243	-0.008
30	UB101	-0.247	-0.247	0.000
30	UB102	-0.247	-0.245	-0.002
50	105	-0.243	-0.249	0.006
50	108	-0.251	-0.246	-0.005
50	107	-0.246	-0.244	-0.002
50	111	-0.246	-0.246	0.000
50	113	-0.247	-0.245	-0.002
50	114	-0.247	-0.244	-0.003
50	115	-0.249	-0.246	-0.003
50	119	-0.250	-0.246	-0.004
50	118	-0.251	-0.247	-0.004
50	121	-0.245	-0.246	0.001
50	124	-0.247	-0.249	0.002
50	125	-0.245	-0.247	0.002
50	128	-0.248	-0.246	-0.002
50	130	-0.249	-0.247	-0.002
50	131	-0.251	-0.249	-0.002
50	133	-0.251	-0.246	-0.005
50	134	-0.249	-0.245	-0.004
50	135	-0.249	-0.245	-0.004
50	137	-0.247	-0.249	0.002
50	298	-0.243	-0.249	0.006
50	299	-0.247	-0.247	0.000
50	UB293	-0.247	-0.247	0.000
50	UB294	-0.249	-0.242	-0.007
50	UB295	-0.249	-0.247	-0.002
50	UB296	-0.248	-0.244	-0.004
50	UB297	-0.248	-0.245	-0.003
	Max	-0.243	-0.241	0.018
	Average	-0.248	-0.246	-0.002
	Min	-0.252	-0.267	-0.011
	Std Dev	0.002	0.003	0.004



3400.6_IH_CANL_N7V_VCC36

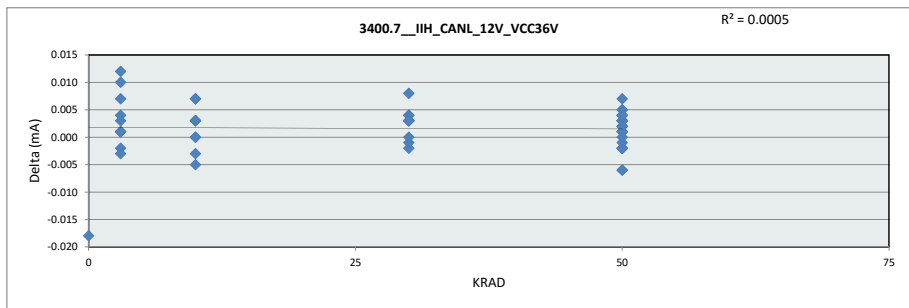
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	-0.123 mA
Min Limit	-0.445 mA

	KRAD 0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.267	-0.249	-0.249	-0.248	-0.249
Average	-0.267	-0.246	-0.246	-0.246	-0.246
Max	-0.267	-0.241	-0.242	-0.242	-0.242
UL	-0.123	-0.123	-0.123	-0.123	-0.123

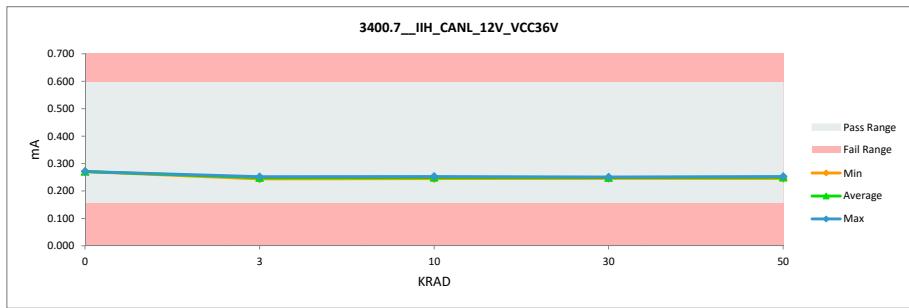


TID Report
TID_REPORT_HVD233_HKX_HDR

3400.7_IIH_CANL_12V_VCC36				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.595	0.595		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.253	0.271	-0.018
3	1	0.249	0.251	-0.002
3	2	0.250	0.249	0.001
3	3	0.249	0.252	-0.003
3	6	0.256	0.244	0.012
3	11	0.250	0.249	0.001
3	UB14	0.252	0.249	0.003
3	UB16	0.254	0.247	0.007
3	UB18	0.253	0.252	0.001
3	UB19	0.255	0.245	0.010
3	UB22	0.255	0.251	0.004
10	23	0.249	0.246	0.003
10	24	0.252	0.245	0.007
10	25	0.255	0.248	0.007
10	28	0.248	0.251	-0.003
10	30	0.252	0.252	0.000
10	UB33	0.253	0.250	0.003
10	UB35	0.252	0.249	0.003
10	UB36	0.252	0.249	0.003
10	UB39	0.248	0.253	-0.005
10	UB40	0.251	0.251	0.000
30	43	0.249	0.246	0.003
30	44	0.254	0.250	0.004
30	48	0.249	0.251	-0.002
30	50	0.255	0.251	0.004
30	52	0.251	0.248	0.003
30	UB96	0.252	0.249	0.003
30	UB98	0.250	0.251	-0.001
30	UB99	0.254	0.246	0.008
30	UB101	0.251	0.251	0.000
30	UB102	0.251	0.248	0.003
50	105	0.247	0.253	-0.006
50	108	0.255	0.250	0.005
50	107	0.250	0.247	0.003
50	111	0.250	0.249	0.001
50	113	0.251	0.249	0.002
50	114	0.250	0.247	0.003
50	115	0.253	0.250	0.003
50	119	0.253	0.250	0.003
50	118	0.255	0.251	0.004
50	121	0.248	0.250	-0.002
50	124	0.251	0.253	-0.002
50	125	0.249	0.251	-0.002
50	128	0.251	0.250	0.001
50	130	0.253	0.251	0.002
50	131	0.254	0.253	0.001
50	133	0.254	0.249	0.005
50	134	0.253	0.249	0.004
50	135	0.252	0.249	0.003
50	137	0.250	0.252	-0.002
50	298	0.247	0.253	-0.006
50	299	0.250	0.251	-0.001
50	UB293	0.251	0.251	0.000
50	UB294	0.253	0.246	0.007
50	UB295	0.252	0.251	0.001
50	UB296	0.252	0.248	0.004
50	UB297	0.251	0.249	0.002
	Max	0.256	0.271	0.012
	Average	0.252	0.250	0.002
	Min	0.247	0.244	-0.018
	Std Dev	0.002	0.004	0.004

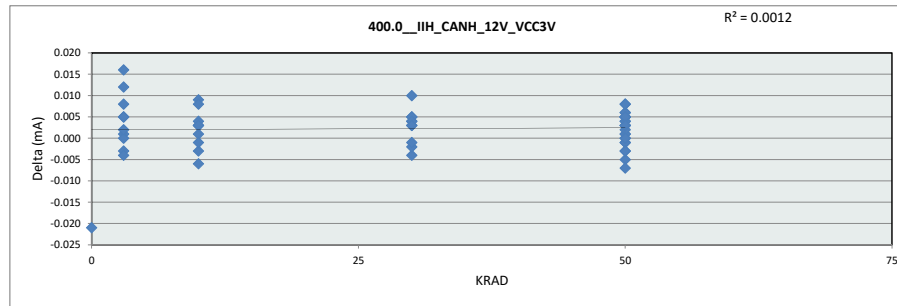


3400.7_IIH_CANL_12V_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.595	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.271	0.244	0.245	0.246	0.246
Average	0.271	0.249	0.249	0.249	0.250
Max	0.271	0.252	0.253	0.251	0.253
UL	0.595	0.595	0.595	0.595	0.595

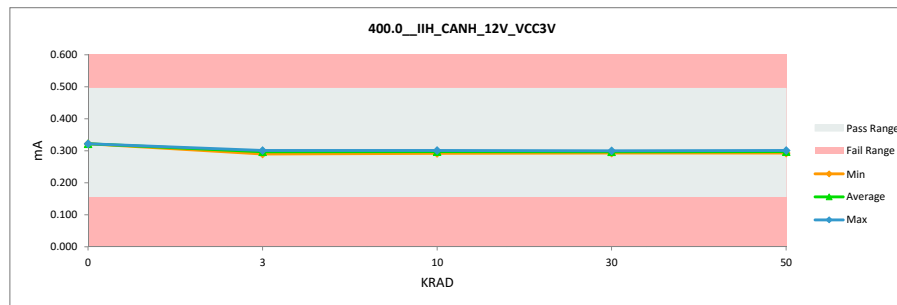


TID Report
TID_REPORT_HVD233_HKX_HDR

400.0_IIH_CANH_12V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.495	0.495		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.301	0.322	-0.021
3	1	0.296	0.299	-0.003
3	2	0.298	0.297	0.001
3	3	0.297	0.301	-0.004
3	6	0.306	0.290	0.016
3	11	0.297	0.297	0.000
3	UB14	0.301	0.296	0.005
3	UB16	0.303	0.295	0.008
3	UB18	0.302	0.300	0.002
3	UB19	0.305	0.293	0.012
3	UB22	0.304	0.299	0.005
10	23	0.297	0.294	0.003
10	24	0.301	0.292	0.009
10	25	0.304	0.296	0.008
10	28	0.296	0.299	-0.003
10	30	0.301	0.300	0.001
10	UB33	0.301	0.298	0.003
10	UB35	0.301	0.297	0.004
10	UB36	0.300	0.297	0.003
10	UB39	0.295	0.301	-0.006
10	UB40	0.299	0.300	-0.001
30	43	0.297	0.293	0.004
30	44	0.303	0.298	0.005
30	48	0.296	0.300	-0.004
30	50	0.304	0.299	0.005
30	52	0.299	0.296	0.003
30	UB96	0.301	0.297	0.004
30	UB98	0.297	0.299	-0.002
30	UB99	0.303	0.293	0.010
30	UB101	0.298	0.299	-0.001
30	UB102	0.299	0.296	0.003
50	105	0.295	0.300	-0.005
50	108	0.303	0.297	0.006
50	107	0.298	0.294	0.004
50	111	0.298	0.297	0.001
50	113	0.299	0.295	0.004
50	114	0.299	0.294	0.005
50	115	0.302	0.297	0.005
50	119	0.302	0.297	0.005
50	118	0.304	0.299	0.005
50	121	0.296	0.297	-0.001
50	124	0.299	0.300	-0.001
50	125	0.296	0.299	-0.003
50	128	0.299	0.298	0.001
50	130	0.302	0.299	0.003
50	131	0.303	0.301	0.002
50	133	0.304	0.296	0.008
50	134	0.302	0.296	0.006
50	135	0.301	0.296	0.005
50	137	0.298	0.301	-0.003
50	298	0.294	0.301	-0.007
50	299	0.299	0.299	0.000
50	UB293	0.299	0.299	0.000
50	UB294	0.301	0.293	0.008
50	UB295	0.301	0.298	0.003
50	UB296	0.300	0.295	0.005
50	UB297	0.300	0.297	0.003
	Max	0.306	0.322	0.016
	Average	0.300	0.298	0.002
	Min	0.294	0.290	-0.021
	Std Dev	0.003	0.004	0.005

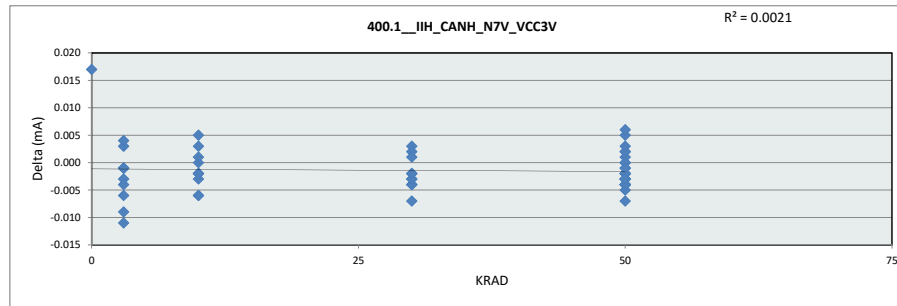


400.0_IIH_CANH_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.495	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.322	0.290	0.292	0.293	0.293
Average	0.322	0.297	0.297	0.297	0.298
Max	0.322	0.301	0.301	0.300	0.301
UL	0.495	0.495	0.495	0.495	0.495

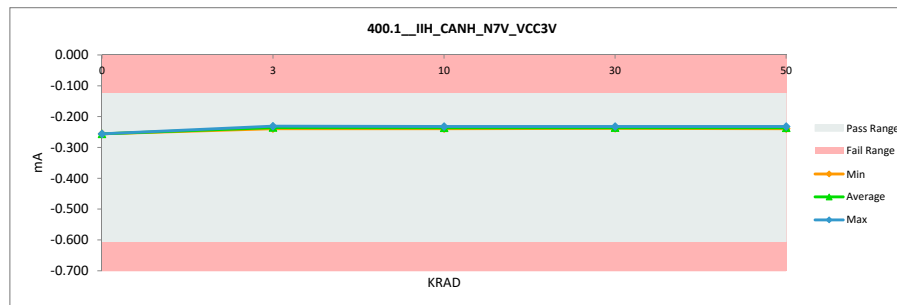


TID Report
TID_REPORT_HVD233_HKX_HDR

400.1_IIH_CANH_N7V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	-0.123	-0.123		
Min Limit	-0.605	-0.605		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.239	-0.256	0.017
3	1	-0.234	-0.237	0.003
3	2	-0.237	-0.236	-0.001
3	3	-0.235	-0.239	0.004
3	6	-0.242	-0.231	-0.011
3	11	-0.236	-0.235	-0.001
3	UB14	-0.238	-0.235	-0.003
3	UB16	-0.240	-0.234	-0.006
3	UB18	-0.239	-0.238	-0.001
3	UB19	-0.241	-0.232	-0.009
3	UB22	-0.241	-0.237	-0.004
10	23	-0.235	-0.233	-0.002
10	24	-0.238	-0.232	-0.006
10	25	-0.240	-0.234	-0.006
10	28	-0.235	-0.238	0.003
10	30	-0.239	-0.239	0.000
10	UB33	-0.239	-0.237	-0.002
10	UB35	-0.239	-0.236	-0.003
10	UB36	-0.238	-0.236	-0.002
10	UB39	-0.234	-0.239	0.005
10	UB40	-0.237	-0.238	0.001
30	43	-0.236	-0.232	-0.004
30	44	-0.240	-0.236	-0.004
30	48	-0.235	-0.238	0.003
30	50	-0.241	-0.238	-0.003
30	52	-0.237	-0.235	-0.002
30	UB96	-0.239	-0.236	-0.003
30	UB98	-0.236	-0.238	0.002
30	UB99	-0.240	-0.233	-0.007
30	UB101	-0.237	-0.238	0.001
30	UB102	-0.237	-0.235	-0.002
50	105	-0.233	-0.238	0.005
50	108	-0.240	-0.236	-0.004
50	107	-0.236	-0.233	-0.003
50	111	-0.237	-0.236	-0.001
50	113	-0.237	-0.235	-0.002
50	114	-0.237	-0.233	-0.004
50	115	-0.239	-0.236	-0.003
50	119	-0.239	-0.236	-0.003
50	118	-0.241	-0.238	-0.003
50	121	-0.235	-0.236	0.001
50	124	-0.236	-0.238	0.002
50	125	-0.235	-0.237	0.002
50	128	-0.238	-0.236	-0.002
50	130	-0.239	-0.237	-0.002
50	131	-0.241	-0.239	-0.002
50	133	-0.241	-0.236	-0.005
50	134	-0.239	-0.235	-0.004
50	135	-0.239	-0.235	-0.004
50	137	-0.236	-0.239	0.003
50	298	-0.233	-0.239	0.006
50	299	-0.237	-0.237	0.000
50	UB293	-0.237	-0.237	0.000
50	UB294	-0.239	-0.232	-0.007
50	UB295	-0.238	-0.237	-0.001
50	UB296	-0.238	-0.234	-0.004
50	UB297	-0.238	-0.235	-0.003
	Max	-0.233	-0.231	0.017
	Average	-0.238	-0.236	-0.001
	Min	-0.242	-0.256	-0.011
	Std Dev	0.002	0.003	0.004

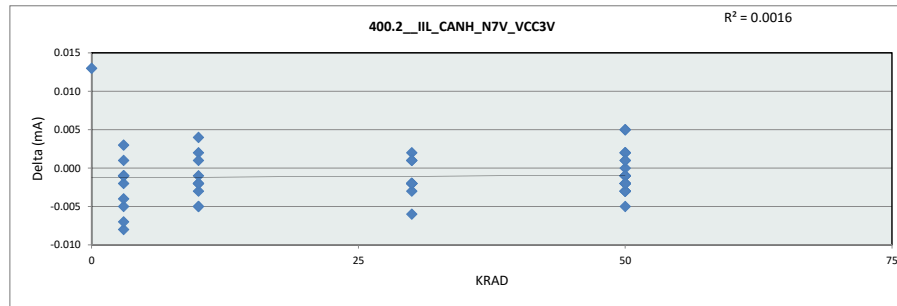


400.1_IIH_CANH_N7V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.123	mA			
Min Limit	-0.605	mA			
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.256	-0.239	-0.239	-0.238	-0.239
Average	-0.256	-0.235	-0.236	-0.236	-0.236
Max	-0.256	-0.231	-0.232	-0.232	-0.232
UL	-0.123	-0.123	-0.123	-0.123	-0.123

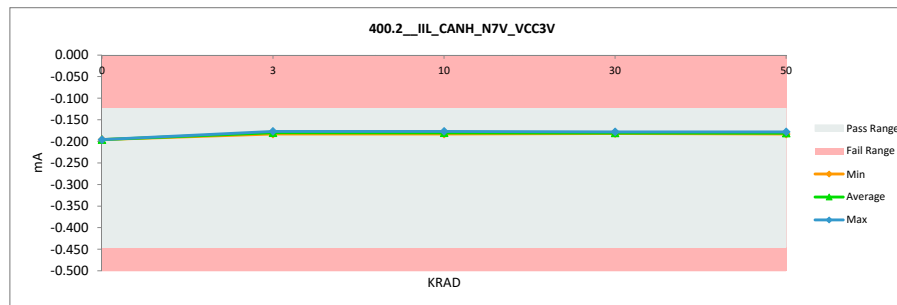


TID Report
TID_REPORT_HVD233_HKX_HDR

400.2_IIL_CANH_N7V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	-0.123	-0.123		
Min Limit	-0.445	-0.445		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.183	-0.196	0.013
3	1	-0.180	-0.181	0.001
3	2	-0.181	-0.180	-0.001
3	3	-0.180	-0.183	0.003
3	6	-0.185	-0.177	-0.008
3	11	-0.181	-0.180	-0.001
3	UB14	-0.182	-0.180	-0.002
3	UB16	-0.184	-0.179	-0.005
3	UB18	-0.183	-0.182	-0.001
3	UB19	-0.185	-0.178	-0.007
3	UB22	-0.185	-0.181	-0.004
10	23	-0.180	-0.178	-0.002
10	24	-0.182	-0.177	-0.005
10	25	-0.184	-0.179	-0.005
10	28	-0.180	-0.182	0.002
10	30	-0.183	-0.182	-0.001
10	UB33	-0.183	-0.181	-0.002
10	UB35	-0.183	-0.180	-0.003
10	UB36	-0.182	-0.180	-0.002
10	UB39	-0.179	-0.183	0.004
10	UB40	-0.181	-0.182	0.001
30	43	-0.180	-0.178	-0.002
30	44	-0.184	-0.181	-0.003
30	48	-0.180	-0.182	0.002
30	50	-0.184	-0.182	-0.002
30	52	-0.182	-0.180	-0.002
30	UB96	-0.183	-0.181	-0.002
30	UB98	-0.181	-0.182	0.001
30	UB99	-0.184	-0.178	-0.006
30	UB101	-0.181	-0.182	0.001
30	UB102	-0.182	-0.180	-0.002
50	105	-0.178	-0.183	0.005
50	108	-0.184	-0.181	-0.003
50	107	-0.181	-0.179	-0.002
50	111	-0.181	-0.181	0.000
50	113	-0.182	-0.180	-0.002
50	114	-0.181	-0.179	-0.002
50	115	-0.183	-0.181	-0.002
50	119	-0.183	-0.181	-0.002
50	118	-0.184	-0.182	-0.002
50	121	-0.180	-0.181	0.001
50	124	-0.181	-0.183	0.002
50	125	-0.180	-0.182	0.002
50	128	-0.182	-0.181	-0.001
50	130	-0.183	-0.182	-0.001
50	131	-0.184	-0.183	-0.001
50	133	-0.184	-0.181	-0.003
50	134	-0.183	-0.180	-0.003
50	135	-0.183	-0.180	-0.003
50	137	-0.181	-0.183	0.002
50	298	-0.178	-0.183	0.005
50	299	-0.181	-0.182	0.001
50	UB293	-0.182	-0.181	-0.001
50	UB294	-0.183	-0.178	-0.005
50	UB295	-0.183	-0.182	-0.001
50	UB296	-0.182	-0.179	-0.003
50	UB297	-0.182	-0.180	-0.002
Max	-0.178	-0.177	0.013	
Average	-0.182	-0.181	-0.001	
Min	-0.185	-0.196	-0.008	
Std Dev	0.002	0.003	0.003	

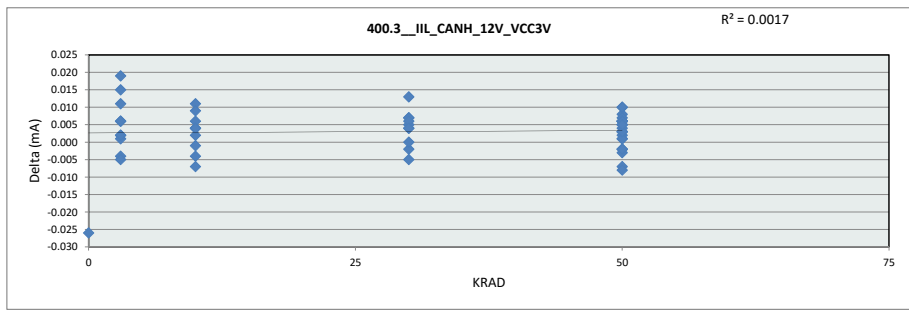


400.2_IIL_CANH_N7V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.123	mA			
Min Limit	-0.445	mA			
KRAD	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.196	-0.183	-0.183	-0.182	-0.183
Average	-0.196	-0.180	-0.180	-0.181	-0.181
Max	-0.196	-0.177	-0.177	-0.178	-0.178
UL	-0.123	-0.123	-0.123	-0.123	-0.123

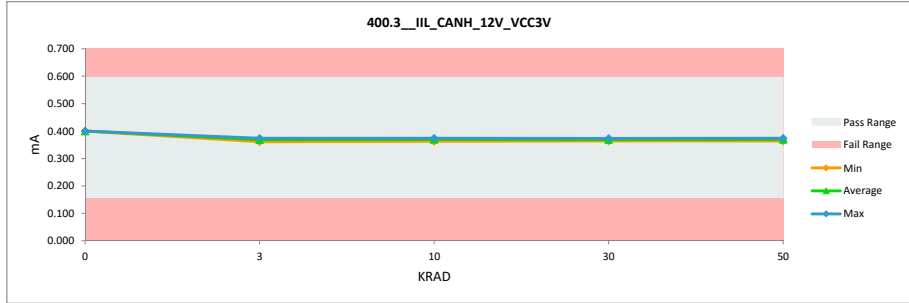


TID Report
TID_REPORT_HVD233_HKX_HDR

400.3_IIL_CANH_12V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.595	0.595		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.374	0.400	-0.026
3	1	0.368	0.372	-0.004
3	2	0.371	0.369	0.002
3	3	0.369	0.374	-0.005
3	6	0.380	0.361	0.019
3	11	0.370	0.369	0.001
3	UB14	0.374	0.368	0.006
3	UB16	0.377	0.366	0.011
3	UB18	0.375	0.373	0.002
3	UB19	0.379	0.364	0.015
3	UB22	0.378	0.372	0.006
10	23	0.369	0.365	0.004
10	24	0.374	0.363	0.011
10	25	0.377	0.368	0.009
10	28	0.368	0.372	-0.004
10	30	0.375	0.373	0.002
10	UB33	0.375	0.371	0.004
10	UB35	0.375	0.369	0.006
10	UB36	0.373	0.369	0.004
10	UB39	0.367	0.374	-0.007
10	UB40	0.372	0.373	-0.001
30	43	0.369	0.364	0.005
30	44	0.377	0.370	0.007
30	48	0.368	0.373	-0.005
30	50	0.378	0.371	0.007
30	52	0.372	0.368	0.004
30	UB96	0.375	0.369	0.006
30	UB98	0.370	0.372	-0.002
30	UB99	0.377	0.364	0.013
30	UB101	0.371	0.371	0.000
30	UB102	0.372	0.368	0.004
50	105	0.366	0.373	-0.007
50	108	0.377	0.369	0.008
50	107	0.371	0.365	0.006
50	111	0.371	0.368	0.003
50	113	0.372	0.367	0.005
50	114	0.371	0.365	0.006
50	115	0.375	0.370	0.005
50	119	0.375	0.369	0.006
50	118	0.378	0.372	0.006
50	121	0.368	0.370	-0.002
50	124	0.371	0.373	-0.002
50	125	0.368	0.371	-0.003
50	128	0.372	0.370	0.002
50	130	0.375	0.371	0.004
50	131	0.377	0.374	0.003
50	133	0.378	0.368	0.010
50	134	0.375	0.368	0.007
50	135	0.374	0.368	0.006
50	137	0.371	0.373	-0.002
50	298	0.365	0.373	-0.008
50	299	0.372	0.371	0.001
50	UB293	0.372	0.371	0.001
50	UB294	0.374	0.364	0.010
50	UB295	0.374	0.371	0.003
50	UB296	0.373	0.367	0.006
50	UB297	0.373	0.368	0.005
	Max	0.380	0.400	0.019
	Average	0.373	0.370	0.003
	Min	0.365	0.361	-0.026
	Std Dev	0.004	0.005	0.007

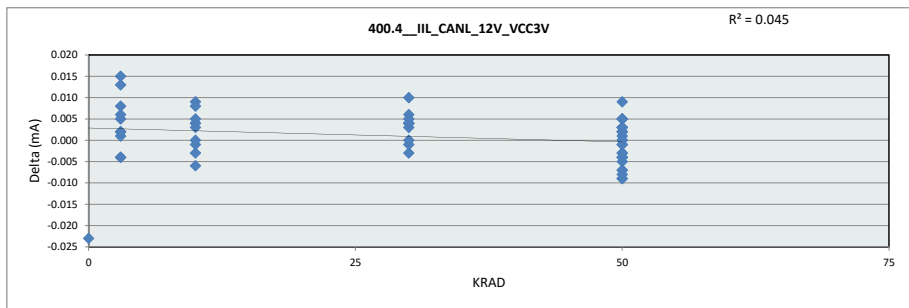


400.3_IIL_CANH_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.595	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.400	0.361	0.363	0.364	0.364
Average	0.400	0.369	0.370	0.369	0.370
Max	0.400	0.374	0.374	0.373	0.374
UL	0.595	0.595	0.595	0.595	0.595

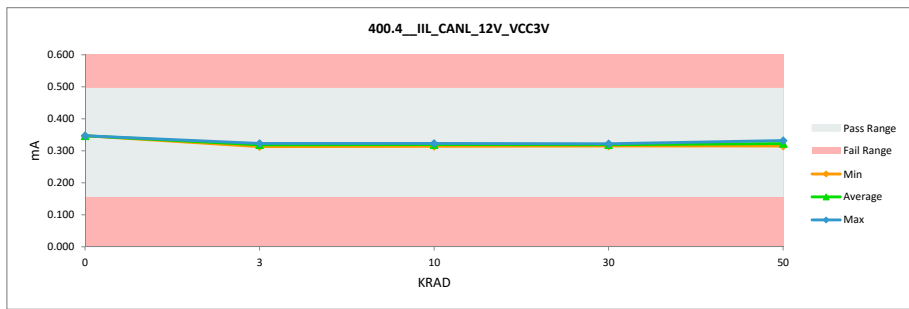


TID Report
TID_REPORT_HVD233_HKX_HDR

400.4_IIL_CANL_12V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.495	0.495		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.324	0.347	-0.023
3	1	0.318	0.322	-0.004
3	2	0.321	0.319	0.002
3	3	0.319	0.323	-0.004
3	6	0.328	0.313	0.015
3	11	0.320	0.319	0.001
3	UB14	0.323	0.318	0.005
3	UB16	0.325	0.317	0.008
3	UB18	0.324	0.322	0.002
3	UB19	0.327	0.314	0.013
3	UB22	0.327	0.321	0.006
10	23	0.319	0.315	0.004
10	24	0.323	0.314	0.009
10	25	0.326	0.318	0.008
10	28	0.318	0.321	-0.003
10	30	0.323	0.323	0.000
10	UB33	0.324	0.321	0.003
10	UB35	0.323	0.319	0.004
10	UB36	0.323	0.318	0.005
10	UB39	0.317	0.323	-0.006
10	UB40	0.321	0.322	-0.001
30	43	0.319	0.315	0.004
30	44	0.325	0.319	0.006
30	48	0.319	0.322	-0.003
30	50	0.326	0.321	0.005
30	52	0.321	0.318	0.003
30	UB96	0.323	0.319	0.004
30	UB98	0.320	0.321	-0.001
30	UB99	0.325	0.315	0.010
30	UB101	0.321	0.321	0.000
30	UB102	0.322	0.318	0.004
50	105	0.316	0.323	-0.007
50	108	0.326	0.321	0.005
50	107	0.320	0.317	0.003
50	111	0.320	0.329	-0.009
50	113	0.321	0.321	0.000
50	114	0.321	0.318	0.003
50	115	0.324	0.322	0.002
50	119	0.325	0.324	0.001
50	118	0.326	0.331	-0.005
50	121	0.318	0.322	-0.004
50	124	0.321	0.325	-0.004
50	125	0.318	0.325	-0.007
50	128	0.322	0.323	-0.001
50	130	0.324	0.322	0.002
50	131	0.325	0.326	-0.001
50	133	0.326	0.321	0.005
50	134	0.324	0.332	-0.008
50	135	0.323	0.327	-0.004
50	137	0.321	0.324	-0.003
50	298	0.316	0.325	-0.009
50	299	0.321	0.324	-0.003
50	UB293	0.321	0.321	0.000
50	UB294	0.324	0.315	0.009
50	UB295	0.323	0.321	0.002
50	UB296	0.322	0.317	0.005
50	UB297	0.322	0.319	0.003
	Max	0.328	0.347	0.015
	Average	0.322	0.321	0.001
	Min	0.316	0.313	-0.023
	Std Dev	0.003	0.005	0.006



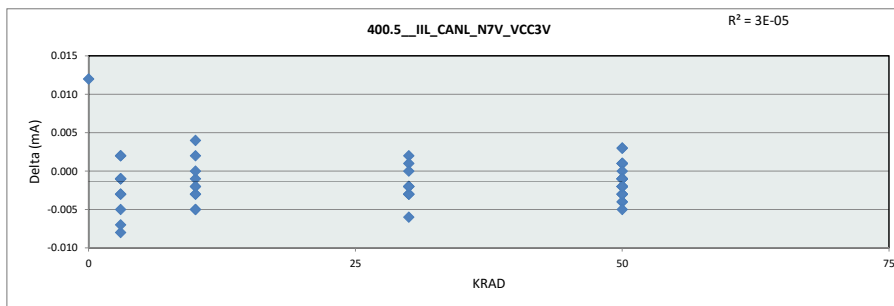
400.4_IIL_CANL_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.495	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.347	0.313	0.314	0.315	0.315
Average	0.347	0.319	0.319	0.319	0.323
Max	0.347	0.323	0.323	0.322	0.332
UL	0.495	0.495	0.495	0.495	0.495



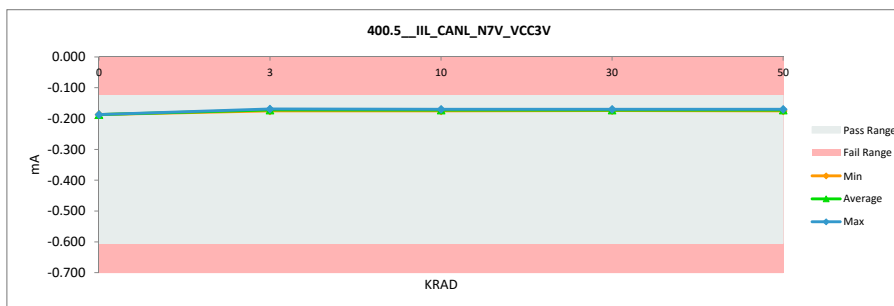
TID Report

TID_REPORT_HVD233_HKX_HDR

400.5_IIL_CANL_N7V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	-0.123	-0.123		
Min Limit	-0.605	-0.605		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.175	-0.187	0.012
3	1	-0.172	-0.174	0.002
3	2	-0.173	-0.172	-0.001
3	3	-0.173	-0.175	0.002
3	6	-0.177	-0.169	-0.008
3	11	-0.173	-0.172	-0.001
3	UB14	-0.175	-0.172	-0.003
3	UB16	-0.176	-0.171	-0.005
3	UB18	-0.175	-0.174	-0.001
3	UB19	-0.177	-0.170	-0.007
3	UB22	-0.176	-0.173	-0.003
10	23	-0.173	-0.170	-0.003
10	24	-0.175	-0.170	-0.005
10	25	-0.176	-0.171	-0.005
10	28	-0.172	-0.174	0.002
10	30	-0.175	-0.174	-0.001
10	UB33	-0.175	-0.173	-0.002
10	UB35	-0.175	-0.172	-0.003
10	UB36	-0.174	-0.172	-0.002
10	UB39	-0.171	-0.175	0.004
10	UB40	-0.174	-0.174	0.000
30	43	-0.172	-0.170	-0.002
30	44	-0.176	-0.173	-0.003
30	48	-0.172	-0.174	0.002
30	50	-0.176	-0.173	-0.003
30	52	-0.174	-0.172	-0.002
30	UB96	-0.175	-0.172	-0.003
30	UB98	-0.173	-0.174	0.001
30	UB99	-0.176	-0.170	-0.006
30	UB101	-0.173	-0.173	0.000
30	UB102	-0.174	-0.172	-0.002
50	105	-0.171	-0.174	0.003
50	108	-0.176	-0.172	-0.004
50	107	-0.173	-0.171	-0.002
50	111	-0.173	-0.172	-0.001
50	113	-0.173	-0.172	-0.001
50	114	-0.173	-0.171	-0.002
50	115	-0.175	-0.173	-0.002
50	119	-0.175	-0.172	-0.003
50	118	-0.176	-0.174	-0.002
50	121	-0.172	-0.173	0.001
50	124	-0.173	-0.174	0.001
50	125	-0.172	-0.173	0.001
50	128	-0.174	-0.173	-0.001
50	130	-0.175	-0.173	-0.002
50	131	-0.176	-0.175	-0.001
50	133	-0.176	-0.172	-0.004
50	134	-0.175	-0.172	-0.003
50	135	-0.175	-0.172	-0.003
50	137	-0.173	-0.174	0.001
50	298	-0.171	-0.174	0.003
50	299	-0.173	-0.173	0.000
50	UB293	-0.174	-0.173	-0.001
50	UB294	-0.175	-0.170	-0.005
50	UB295	-0.174	-0.173	-0.001
50	UB296	-0.174	-0.171	-0.003
50	UB297	-0.174	-0.172	-0.002
	Max	-0.171	-0.169	0.012
	Average	-0.174	-0.173	-0.001
	Min	-0.177	-0.187	-0.008
	Std Dev	0.002	0.002	0.003

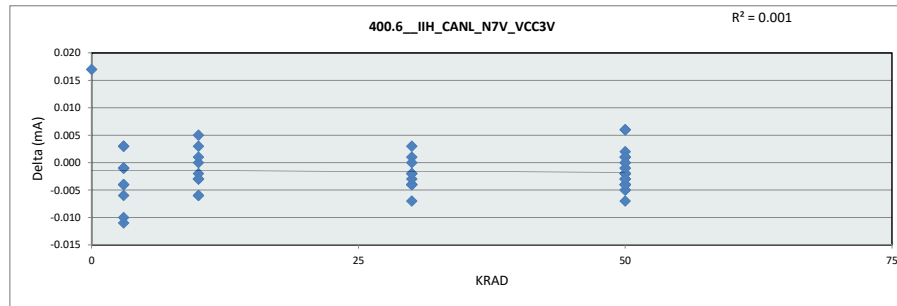


400.5_IIL_CANL_N7V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.123	mA			
Min Limit	-0.605	mA			
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.187	-0.175	-0.175	-0.174	-0.175
Average	-0.187	-0.172	-0.173	-0.172	-0.173
Max	-0.187	-0.169	-0.170	-0.170	-0.170
UL	-0.123	-0.123	-0.123	-0.123	-0.123

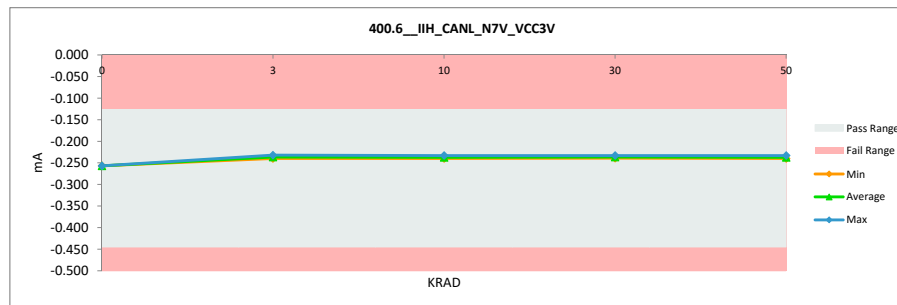


TID Report
TID_REPORT_HVD233_HKX_HDR

400.6_IH_CANL_N7V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	-0.123	-0.123		
Min Limit	-0.445	-0.445		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.240	-0.257	0.017
3	1	-0.236	-0.239	0.003
3	2	-0.238	-0.237	-0.001
3	3	-0.237	-0.240	0.003
3	6	-0.243	-0.232	-0.011
3	11	-0.237	-0.236	-0.001
3	UB14	-0.240	-0.236	-0.004
3	UB16	-0.241	-0.235	-0.006
3	UB18	-0.240	-0.239	-0.001
3	UB19	-0.243	-0.233	-0.010
3	UB22	-0.242	-0.238	-0.004
10	23	-0.237	-0.234	-0.003
10	24	-0.239	-0.233	-0.006
10	25	-0.242	-0.236	-0.006
10	28	-0.236	-0.239	0.003
10	30	-0.240	-0.240	0.000
10	UB33	-0.240	-0.238	-0.002
10	UB35	-0.240	-0.237	-0.003
10	UB36	-0.239	-0.236	-0.003
10	UB39	-0.235	-0.240	0.005
10	UB40	-0.238	-0.239	0.001
30	43	-0.237	-0.233	-0.004
30	44	-0.241	-0.237	-0.004
30	48	-0.236	-0.239	0.003
30	50	-0.242	-0.238	-0.004
30	52	-0.238	-0.236	-0.002
30	UB96	-0.240	-0.237	-0.003
30	UB98	-0.237	-0.238	0.001
30	UB99	-0.241	-0.234	-0.007
30	UB101	-0.238	-0.238	0.000
30	UB102	-0.238	-0.236	-0.002
50	105	-0.234	-0.240	0.006
50	108	-0.242	-0.237	-0.005
50	107	-0.237	-0.235	-0.002
50	111	-0.237	-0.236	-0.001
50	113	-0.238	-0.236	-0.002
50	114	-0.238	-0.235	-0.003
50	115	-0.240	-0.237	-0.003
50	119	-0.241	-0.237	-0.004
50	118	-0.242	-0.238	-0.004
50	121	-0.236	-0.237	0.001
50	124	-0.238	-0.239	0.001
50	125	-0.236	-0.238	0.002
50	128	-0.239	-0.237	-0.002
50	130	-0.240	-0.238	-0.002
50	131	-0.241	-0.240	-0.001
50	133	-0.242	-0.237	-0.005
50	134	-0.240	-0.236	-0.004
50	135	-0.240	-0.236	-0.004
50	137	-0.238	-0.239	0.001
50	298	-0.234	-0.240	0.006
50	299	-0.238	-0.238	0.000
50	UB293	-0.238	-0.238	0.000
50	UB294	-0.240	-0.233	-0.007
50	UB295	-0.240	-0.238	-0.002
50	UB296	-0.239	-0.235	-0.004
50	UB297	-0.239	-0.236	-0.003
	Max	-0.234	-0.232	0.017
	Average	-0.239	-0.237	-0.002
	Min	-0.243	-0.257	-0.011
	Std Dev	0.002	0.003	0.004

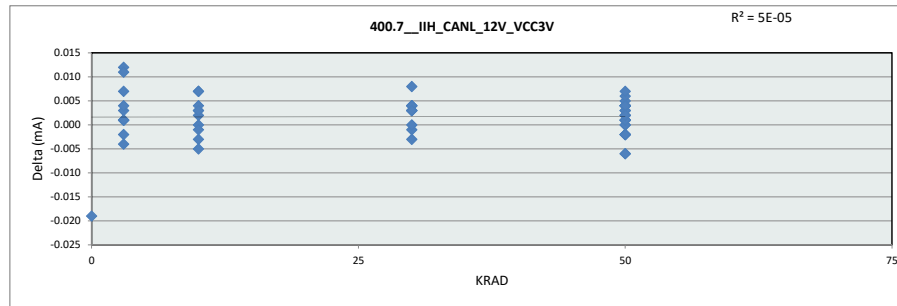


400.6_IH_CANL_N7V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.123	mA			
Min Limit	-0.445	mA			
KRAD	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.257	-0.240	-0.240	-0.239	-0.240
Average	-0.257	-0.237	-0.237	-0.237	-0.237
Max	-0.257	-0.232	-0.233	-0.233	-0.233
UL	-0.123	-0.123	-0.123	-0.123	-0.123

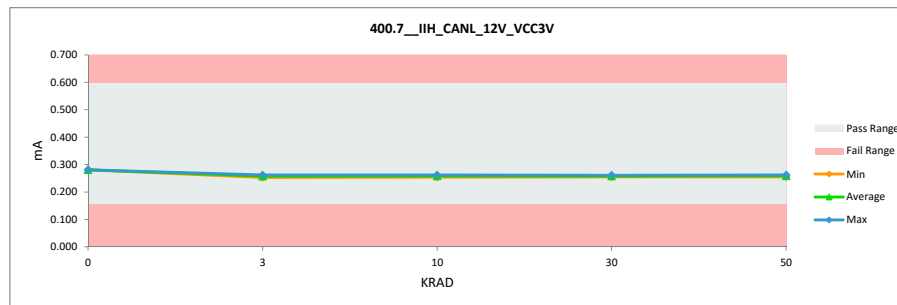


TID Report
TID_REPORT_HVD233_HKX_HDR

400.7_IIH_CANL_12V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.595	0.595		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.262	0.281	-0.019
3	1	0.258	0.260	-0.002
3	2	0.259	0.258	0.001
3	3	0.258	0.262	-0.004
3	6	0.265	0.253	0.012
3	11	0.259	0.258	0.001
3	UB14	0.261	0.258	0.003
3	UB16	0.263	0.256	0.007
3	UB18	0.262	0.261	0.001
3	UB19	0.265	0.254	0.011
3	UB22	0.264	0.260	0.004
10	23	0.258	0.255	0.003
10	24	0.261	0.254	0.007
10	25	0.264	0.257	0.007
10	28	0.257	0.260	-0.003
10	30	0.261	0.261	0.000
10	UB33	0.262	0.260	0.002
10	UB35	0.262	0.258	0.004
10	UB36	0.261	0.258	0.003
10	UB39	0.257	0.262	-0.005
10	UB40	0.260	0.261	-0.001
30	43	0.258	0.255	0.003
30	44	0.263	0.259	0.004
30	48	0.258	0.261	-0.003
30	50	0.264	0.260	0.004
30	52	0.260	0.257	0.003
30	UB96	0.262	0.258	0.004
30	UB98	0.259	0.260	-0.001
30	UB99	0.263	0.255	0.008
30	UB101	0.260	0.260	0.000
30	UB102	0.260	0.257	0.003
50	105	0.256	0.262	-0.006
50	108	0.264	0.259	0.005
50	107	0.259	0.256	0.003
50	111	0.259	0.258	0.001
50	113	0.260	0.258	0.002
50	114	0.260	0.256	0.004
50	115	0.262	0.259	0.003
50	119	0.263	0.259	0.004
50	118	0.264	0.260	0.004
50	121	0.257	0.259	-0.002
50	124	0.260	0.262	-0.002
50	125	0.258	0.260	-0.002
50	128	0.260	0.259	0.001
50	130	0.262	0.260	0.002
50	131	0.263	0.262	0.001
50	133	0.264	0.258	0.006
50	134	0.262	0.258	0.004
50	135	0.262	0.258	0.004
50	137	0.259	0.261	-0.002
50	298	0.256	0.262	-0.006
50	299	0.260	0.260	0.000
50	UB293	0.260	0.260	0.000
50	UB294	0.262	0.255	0.007
50	UB295	0.261	0.260	0.001
50	UB296	0.261	0.257	0.004
50	UB297	0.260	0.258	0.002
Max	0.265	0.281	0.012	
Average	0.261	0.259	0.002	
Min	0.256	0.253	-0.019	
Std Dev	0.002	0.004	0.005	

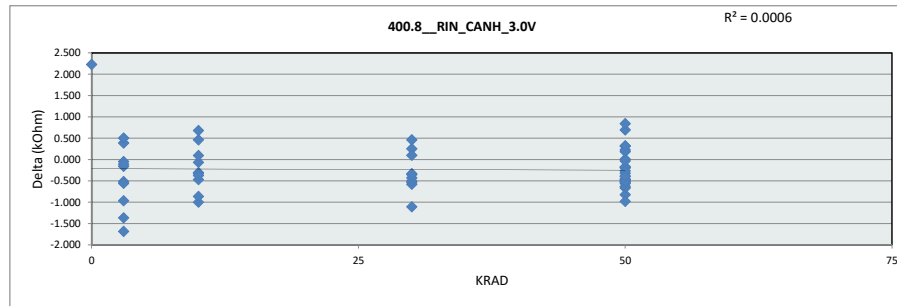


400.7_IIH_CANL_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.595	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.281	0.253	0.254	0.255	0.255
Average	0.281	0.258	0.259	0.258	0.259
Max	0.281	0.262	0.262	0.261	0.262
UL	0.595	0.595	0.595	0.595	0.595

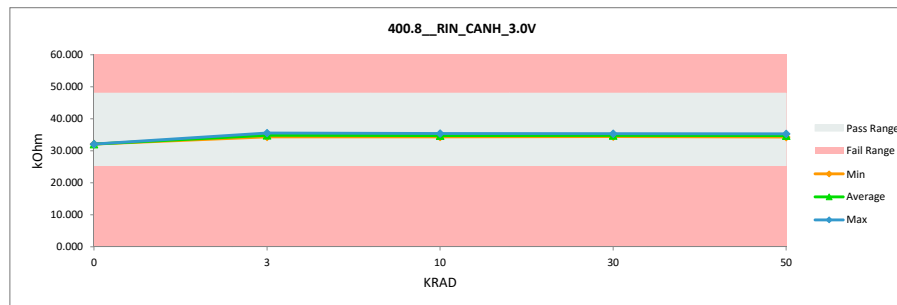


TID Report
TID_REPORT_HVD233_HKX_HDR

400.8_RIN_CANH_3.0V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	kOhm	kOhm		
Max Limit	48	48		
Min Limit	25.1	25.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	34.331	32.101	2.230
3	1	34.938	34.550	0.388
3	2	34.656	34.815	-0.159
3	3	34.841	34.337	0.504
3	6	33.859	35.543	-1.684
3	11	34.772	34.820	-0.048
3	UB14	34.381	34.896	-0.515
3	UB16	34.109	35.075	-0.966
3	UB18	34.304	34.415	-0.111
3	UB19	33.944	35.310	-1.366
3	UB22	33.985	34.541	-0.556
10	23	34.841	35.146	-0.305
10	24	34.377	35.377	-1.000
10	25	34.065	34.929	-0.864
10	28	34.973	34.510	0.463
10	30	34.335	34.399	-0.064
10	UB33	34.300	34.626	-0.326
10	UB35	34.322	34.794	-0.472
10	UB36	34.465	34.839	-0.374
10	UB39	35.026	34.344	0.682
10	UB40	34.555	34.458	0.097
30	43	34.795	35.326	-0.531
30	44	34.131	34.710	-0.579
30	48	34.927	34.463	0.464
30	50	34.045	34.550	-0.505
30	52	34.573	34.905	-0.332
30	UB96	34.328	34.756	-0.428
30	UB98	34.764	34.512	0.252
30	UB99	34.093	35.202	-1.109
30	UB101	34.649	34.549	0.100
30	UB102	34.554	34.906	-0.352
50	105	35.118	34.422	0.696
50	108	34.104	34.768	-0.664
50	107	34.697	35.167	-0.470
50	111	34.646	34.837	-0.191
50	113	34.594	34.984	-0.390
50	114	34.613	35.124	-0.511
50	115	34.270	34.727	-0.457
50	119	34.249	34.785	-0.536
50	118	34.038	34.535	-0.497
50	121	34.912	34.726	0.186
50	124	34.658	34.430	0.228
50	125	34.889	34.571	0.318
50	128	34.539	34.708	-0.169
50	130	34.285	34.604	-0.319
50	131	34.120	34.297	-0.177
50	133	34.028	34.850	-0.822
50	134	34.252	34.882	-0.630
50	135	34.341	34.900	-0.559
50	137	34.691	34.369	0.322
50	298	35.212	34.371	0.841
50	299	34.587	34.577	0.010
50	UB293	34.567	34.599	-0.032
50	UB294	34.312	35.293	-0.981
50	UB295	34.354	34.619	-0.265
50	UB296	34.463	34.975	-0.512
50	UB297	34.470	34.856	-0.386
	Max	35.212	35.543	2.230
	Average	34.478	34.714	-0.236
	Min	33.859	32.101	-1.684
	Std Dev	0.323	0.461	0.607



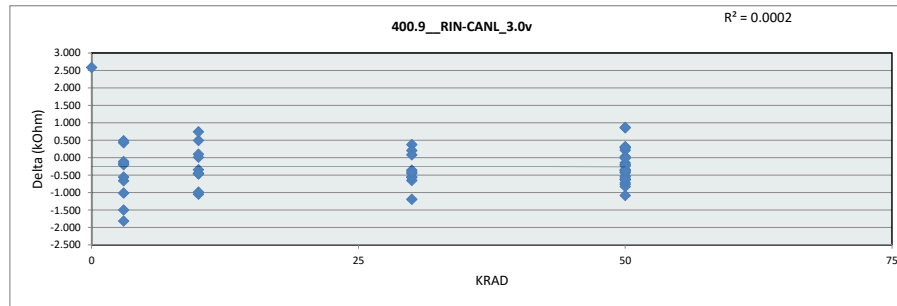
400.8_RIN_CANH_3.0V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	48	kOhm			
Min Limit	25.1	kOhm			
KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	32.101	34.337	34.344	34.463	34.297
Average	32.101	34.830	34.742	34.788	34.730
Max	32.101	35.543	35.377	35.326	35.293
UL	48.000	48.000	48.000	48.000	48.000



TID Report
TID_REPORT_HVD233_HKX_HDR

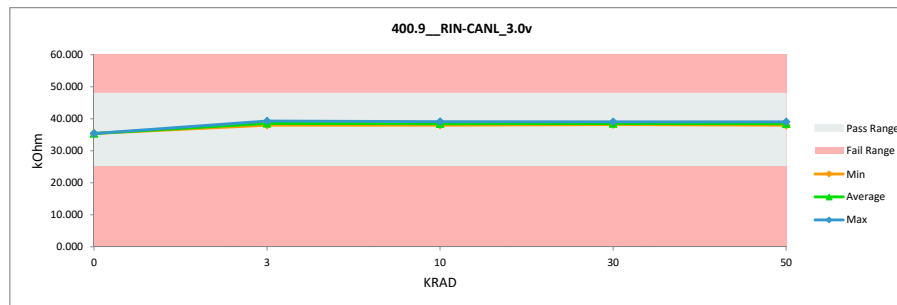
400.9_RIN-CANL_3.0v		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	48	48
Min Limit	25.1	25.1

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	38.009	35.428	2.581
3	1	38.650	38.220	0.430
3	2	38.347	38.550	-0.203
3	3	38.515	38.032	0.483
3	6	37.515	39.332	-1.817
3	11	38.444	38.605	-0.161
3	UB14	38.064	38.622	-0.558
3	UB16	37.827	38.843	-1.016
3	UB18	38.019	38.131	-0.112
3	UB19	37.598	39.098	-1.500
3	UB22	37.659	38.322	-0.663
10	23	38.515	38.961	-0.446
10	24	38.077	39.125	-1.048
10	25	37.726	38.713	-0.987
10	28	38.705	38.212	0.493
10	30	38.066	38.054	0.012
10	UB33	37.999	38.343	-0.344
10	UB35	38.031	38.499	-0.468
10	UB36	38.138	38.593	-0.455
10	UB39	38.771	38.032	0.739
10	UB40	38.283	38.184	0.099
30	43	38.515	39.074	-0.559
30	44	37.806	38.458	-0.652
30	48	38.566	38.195	0.371
30	50	37.727	38.289	-0.562
30	52	38.291	38.653	-0.362
30	UB96	38.039	38.491	-0.452
30	UB98	38.452	38.248	0.204
30	UB99	37.788	38.983	-1.195
30	UB101	38.348	38.268	0.080
30	UB102	38.256	38.668	-0.412
50	105	38.910	38.050	0.860
50	108	37.710	38.473	-0.763
50	107	38.449	38.862	-0.413
50	111	38.417	38.564	-0.147
50	113	38.299	38.670	-0.371
50	114	38.330	38.854	-0.524
50	115	38.000	38.428	-0.428
50	119	37.884	38.521	-0.637
50	118	37.695	38.245	-0.550
50	121	38.677	38.466	0.211
50	124	38.349	38.071	0.278
50	125	38.609	38.304	0.305
50	128	38.194	38.404	-0.210
50	130	37.987	38.328	-0.341
50	131	37.794	37.993	-0.199
50	133	37.725	38.551	-0.826
50	134	37.945	38.667	-0.722
50	135	38.037	38.665	-0.628
50	137	38.384	38.074	0.310
50	298	38.923	38.059	0.864
50	299	38.329	38.299	0.030
50	UB293	38.289	38.305	-0.016
50	UB294	37.990	39.073	-1.083
50	UB295	38.074	38.314	-0.240
50	UB296	38.167	38.780	-0.613
50	UB297	38.206	38.574	-0.368
	Max	38.923	39.332	2.581
	Average	38.178	38.435	-0.258
	Min	37.515	35.428	-1.817
	Std Dev	0.340	0.519	0.667



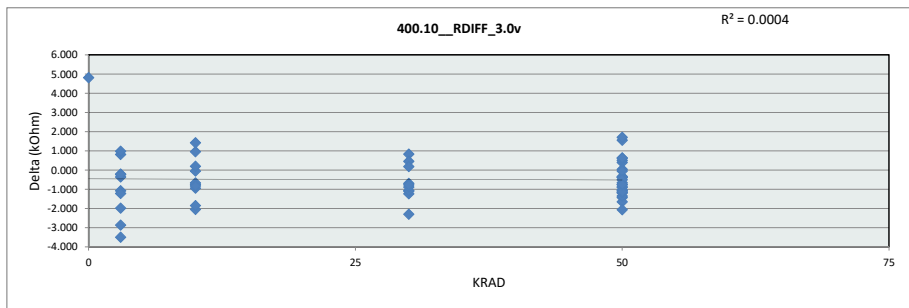
400.9_RIN-CANL_3.0v		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	48	kOhm
Min Limit	25.1	kOhm

	KRAD	0	3	10	30	50
LL		25.100	25.100	25.100	25.100	25.100
Min		35.428	38.032	38.032	38.195	37.993
Average		35.428	38.576	38.472	38.533	38.446
Max		35.428	39.332	39.125	39.074	39.073
UL		48.000	48.000	48.000	48.000	48.000

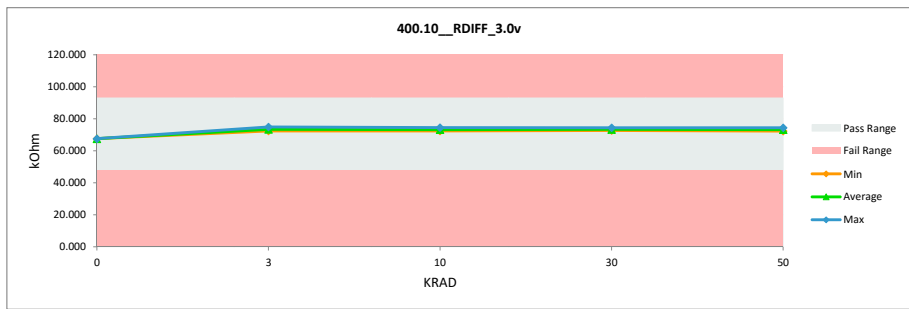


TID Report
TID_REPORT_HVD233_HKX_HDR

400.10_RDIFFF_3.0v				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	kOhm	kOhm		
Max Limit	93	93		
Min Limit	48.1	48.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	72.340	67.528	4.812
3	1	73.587	72.770	0.817
3	2	73.003	73.365	-0.362
3	3	73.356	72.370	0.986
3	6	71.375	74.876	-3.501
3	11	73.216	73.424	-0.208
3	UB14	72.445	73.518	-1.073
3	UB16	71.936	73.918	-1.982
3	UB18	72.323	72.546	-0.223
3	UB19	71.542	74.408	-2.866
3	UB22	71.644	72.862	-1.218
10	23	73.356	74.107	-0.751
10	24	72.454	74.501	-2.047
10	25	71.791	73.642	-1.851
10	28	73.678	72.722	0.956
10	30	72.401	72.453	-0.052
10	UB33	72.299	72.969	-0.670
10	UB35	72.353	73.293	-0.940
10	UB36	72.603	73.431	-0.828
10	UB39	73.797	72.376	1.421
10	UB40	72.838	72.642	0.196
30	43	73.310	74.401	-1.091
30	44	71.937	73.168	-1.231
30	48	73.493	72.658	0.835
30	50	71.772	72.839	-1.067
30	52	72.863	73.558	-0.695
30	UB96	72.367	73.247	-0.880
30	UB98	73.216	72.760	0.456
30	UB99	71.881	74.185	-2.304
30	UB101	72.997	72.817	0.180
30	UB102	72.809	73.575	-0.766
50	105	74.028	72.472	1.556
50	108	71.813	73.242	-1.429
50	107	73.146	74.029	-0.883
50	111	73.064	73.401	-0.337
50	113	72.893	73.654	-0.761
50	114	72.943	73.978	-1.035
50	115	72.270	73.155	-0.885
50	119	72.133	73.305	-1.172
50	118	71.732	72.780	-1.048
50	121	73.589	73.192	0.397
50	124	73.007	72.501	0.506
50	125	73.498	72.876	0.622
50	128	72.733	73.111	-0.378
50	130	72.272	72.932	-0.660
50	131	71.914	72.290	-0.376
50	133	71.753	73.401	-1.648
50	134	72.196	73.550	-1.354
50	135	72.378	73.565	-1.187
50	137	73.075	72.443	0.632
50	298	74.135	72.430	1.705
50	299	72.916	72.876	0.040
50	UB293	72.856	72.904	-0.048
50	UB294	72.302	74.366	-2.064
50	UB295	72.428	72.932	-0.504
50	UB296	72.630	73.755	-1.125
50	UB297	72.677	73.430	-0.753
	Max	74.135	74.876	4.812
	Average	72.655	73.149	-0.494
	Min	71.375	67.528	-3.501
	Std Dev	0.663	0.979	1.272



400.10_RDIFFF_3.0v					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	93	kOhm			
Min Limit	48.1	kOhm			
KRAD	0	3	10	30	50
LL	48.100	48.100	48.100	48.100	48.100
Min	67.528	72.370	72.376	72.658	72.290
Average	67.528	73.406	73.214	73.321	73.176
Max	67.528	74.876	74.501	74.401	74.366
UL	93.000	93.000	93.000	93.000	93.000

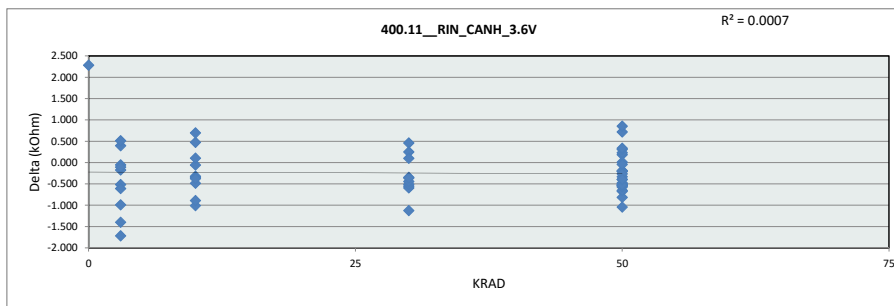


TID Report

TID_REPORT_HVD233_HKX_HDR

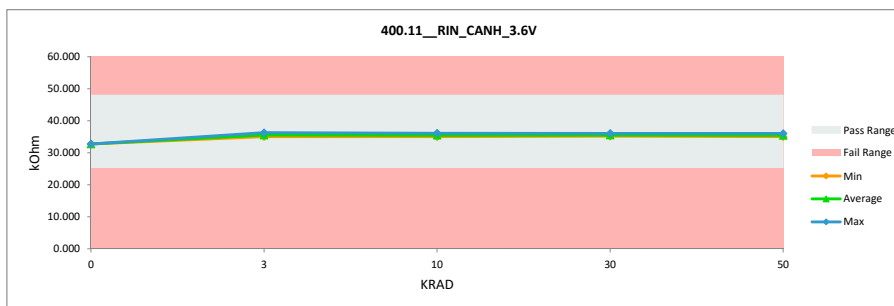
400.11_RIN_CANH_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	48	48
Min Limit	25.1	25.1

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	35.049	32.769	2.280
3	1	35.675	35.278	0.397
3	2	35.376	35.550	-0.174
3	3	35.569	35.057	0.512
3	6	34.574	36.292	-1.718
3	11	35.498	35.551	-0.053
3	UB14	35.109	35.623	-0.514
3	UB16	34.827	35.817	-0.990
3	UB18	35.032	35.138	-0.106
3	UB19	34.660	36.061	-1.401
3	UB22	34.705	35.313	-0.608
10	23	35.569	35.889	-0.320
10	24	35.107	36.119	-1.012
10	25	34.783	35.675	-0.892
10	28	35.706	35.231	0.475
10	30	35.063	35.122	-0.059
10	UB33	35.019	35.362	-0.343
10	UB35	35.047	35.533	-0.486
10	UB36	35.193	35.569	-0.376
10	UB39	35.764	35.069	0.695
10	UB40	35.283	35.181	0.102
30	43	35.522	36.074	-0.552
30	44	34.848	35.442	-0.594
30	48	35.656	35.196	0.460
30	50	34.765	35.277	-0.512
30	52	35.297	35.642	-0.345
30	UB96	35.050	35.493	-0.443
30	UB98	35.481	35.232	0.249
30	UB99	34.812	35.940	-1.128
30	UB101	35.371	35.272	0.099
30	UB102	35.284	35.645	-0.361
50	105	35.858	35.140	0.718
50	108	34.818	35.491	-0.673
50	107	35.420	35.919	-0.499
50	111	35.374	35.579	-0.205
50	113	35.312	35.706	-0.394
50	114	35.338	35.874	-0.536
50	115	34.997	35.475	-0.478
50	119	34.972	35.521	-0.549
50	118	34.753	35.270	-0.517
50	121	35.643	35.456	0.187
50	124	35.389	35.157	0.232
50	125	35.617	35.309	0.308
50	128	35.260	35.448	-0.188
50	130	35.007	35.338	-0.331
50	131	34.827	35.030	-0.203
50	133	34.744	35.559	-0.815
50	134	34.971	35.626	-0.655
50	135	35.064	35.637	-0.573
50	137	35.423	35.089	0.334
50	298	35.956	35.101	0.855
50	299	35.320	35.312	0.008
50	UB293	35.290	35.331	-0.041
50	UB294	35.024	36.067	-1.043
50	UB295	35.079	35.344	-0.265
50	UB296	35.186	35.716	-0.530
50	UB297	35.192	35.587	-0.395
	Max	35.956	36.292	2.280
	Average	35.202	35.447	-0.245
	Min	34.574	32.769	-1.718
	Std Dev	0.328	0.472	0.620



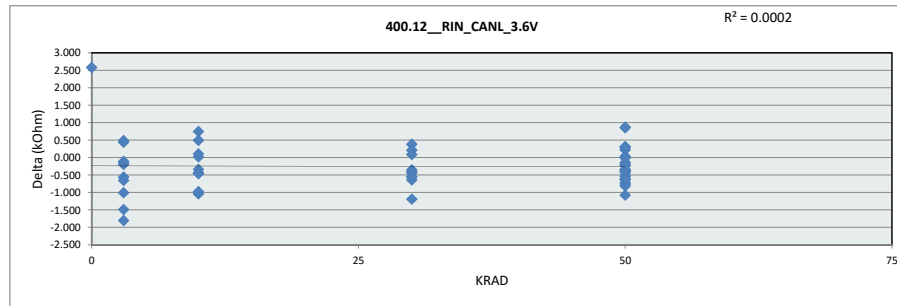
400.11_RIN_CANH_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	48	kOhm
Min Limit	25.1	kOhm

KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	32.769	35.057	35.069	35.196	35.030
Average	32.769	35.568	35.475	35.521	35.465
Max	32.769	36.292	36.119	36.074	36.067
UL	48.000	48.000	48.000	48.000	48.000

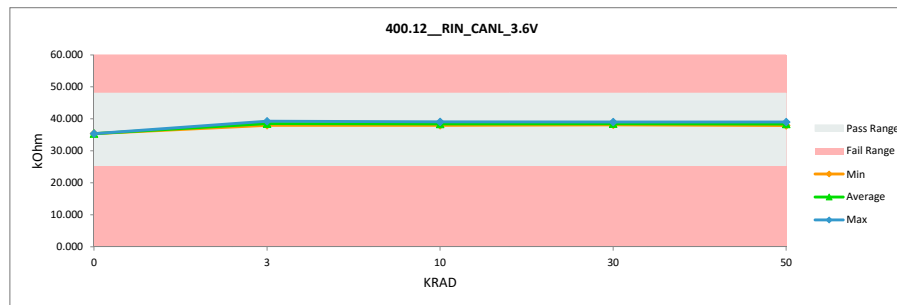


TID Report
TID_REPORT_HVD233_HKX_HDR

400.12_RIN_CANL_3.6V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	kOhm	kOhm		
Max Limit	48	48		
Min Limit	25.1	25.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	37.955	35.375	2.580
3	1	38.597	38.157	0.440
3	2	38.295	38.491	-0.196
3	3	38.460	37.973	0.487
3	6	37.463	39.266	-1.803
3	11	38.392	38.546	-0.154
3	UB14	38.007	38.562	-0.555
3	UB16	37.776	38.782	-1.006
3	UB18	37.965	38.071	-0.106
3	UB19	37.549	39.035	-1.486
3	UB22	37.610	38.263	-0.653
10	23	38.460	38.898	-0.438
10	24	38.023	39.059	-1.036
10	25	37.676	38.650	-0.974
10	28	38.649	38.151	0.498
10	30	38.013	37.993	0.020
10	UB33	37.945	38.283	-0.338
10	UB35	37.978	38.437	-0.459
10	UB36	38.084	38.533	-0.449
10	UB39	38.723	37.974	0.749
10	UB40	38.232	38.123	0.109
30	43	38.460	39.012	-0.552
30	44	37.755	38.396	-0.641
30	48	38.515	38.134	0.381
30	50	37.676	38.229	-0.553
30	52	38.239	38.592	-0.353
30	UB96	37.982	38.426	-0.444
30	UB98	38.400	38.187	0.213
30	UB99	37.736	38.925	-1.189
30	UB101	38.294	38.205	0.089
30	UB102	38.204	38.607	-0.403
50	105	38.858	38.001	0.857
50	108	37.661	38.414	-0.753
50	107	38.395	38.800	-0.405
50	111	38.364	38.500	-0.136
50	113	38.246	38.612	-0.366
50	114	38.276	38.794	-0.518
50	115	37.947	38.366	-0.419
50	119	37.833	38.460	-0.627
50	118	37.644	38.183	-0.539
50	121	38.627	38.404	0.223
50	124	38.299	38.011	0.288
50	125	38.556	38.246	0.310
50	128	38.138	38.340	-0.202
50	130	37.934	38.266	-0.332
50	131	37.742	37.934	-0.192
50	133	37.675	38.487	-0.812
50	134	37.892	38.610	-0.718
50	135	37.986	38.606	-0.620
50	137	38.332	38.018	0.314
50	298	38.873	38.000	0.873
50	299	38.276	38.236	0.040
50	UB293	38.238	38.245	-0.007
50	UB294	37.940	39.015	-1.075
50	UB295	38.021	38.254	-0.233
50	UB296	38.115	38.720	-0.605
50	UB297	38.151	38.513	-0.362
	Max	38.873	39.266	2.580
	Average	38.125	38.375	-0.250
	Min	37.463	35.375	-1.803
	Std Dev	0.340	0.517	0.665

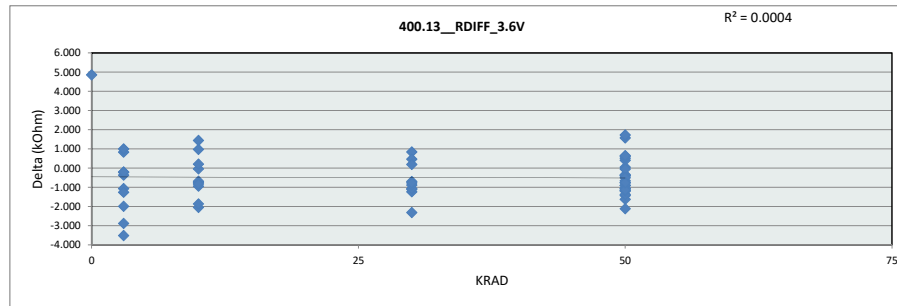


400.12_RIN_CANL_3.6V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	48	kOhm			
Min Limit	25.1	kOhm			
KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	35.375	37.973	37.974	38.134	37.934
Average	35.375	38.515	38.410	38.471	38.386
Max	35.375	39.266	39.059	39.012	39.015
UL	48.000	48.000	48.000	48.000	48.000

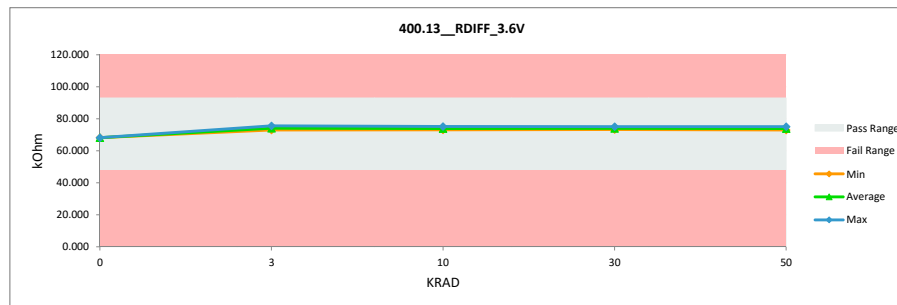


TID Report
TID_REPORT_HVD233_HKX_HDR

400.13_RDIFF_3.6V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	kOhm	kOhm		
Max Limit	93	93		
Min Limit	48.1	48.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	73.004	68.145	4.859
3	1	74.271	73.435	0.836
3	2	73.671	74.041	-0.370
3	3	74.030	73.030	1.000
3	6	72.038	75.558	-3.520
3	11	73.890	74.097	-0.207
3	UB14	73.116	74.185	-1.069
3	UB16	72.603	74.599	-1.996
3	UB18	72.997	73.209	-0.212
3	UB19	72.209	75.095	-2.886
3	UB22	72.314	73.575	-1.261
10	23	74.030	74.787	-0.757
10	24	73.130	75.178	-2.048
10	25	72.459	74.324	-1.865
10	28	74.355	73.382	0.973
10	30	73.076	73.115	-0.039
10	UB33	72.964	73.645	-0.681
10	UB35	73.025	73.970	-0.945
10	UB36	73.277	74.102	-0.825
10	UB39	74.487	73.044	1.443
10	UB40	73.515	73.304	0.211
30	43	73.982	75.086	-1.104
30	44	72.604	73.838	-1.234
30	48	74.171	73.330	0.841
30	50	72.441	73.506	-1.065
30	52	73.536	74.234	-0.698
30	UB96	73.032	73.919	-0.887
30	UB98	73.881	73.419	0.462
30	UB99	72.548	74.865	-2.317
30	UB101	73.664	73.477	0.187
30	UB102	73.488	74.252	-0.764
50	105	74.716	73.141	1.575
50	108	72.480	73.905	-1.425
50	107	73.815	74.719	-0.904
50	111	73.737	74.080	-0.343
50	113	73.558	74.318	-0.760
50	114	73.614	74.668	-1.054
50	115	72.943	73.841	-0.898
50	119	72.805	73.981	-1.176
50	118	72.397	73.454	-1.057
50	121	74.269	73.860	0.409
50	124	73.688	73.169	0.519
50	125	74.174	73.555	0.619
50	128	73.398	73.788	-0.390
50	130	72.941	73.603	-0.662
50	131	72.569	72.963	-0.394
50	133	72.419	74.046	-1.627
50	134	72.863	74.236	-1.373
50	135	73.050	74.243	-1.193
50	137	73.755	73.107	0.648
50	298	74.829	73.101	1.728
50	299	73.597	73.549	0.048
50	UB293	73.528	73.576	-0.048
50	UB294	72.965	75.083	-2.118
50	UB295	73.100	73.598	-0.498
50	UB296	73.301	74.436	-1.135
50	UB297	73.342	74.100	-0.758
	Max	74.829	75.558	4.859
	Average	73.327	73.822	-0.495
	Min	72.038	68.145	-3.520
	Std Dev	0.668	0.989	1.285

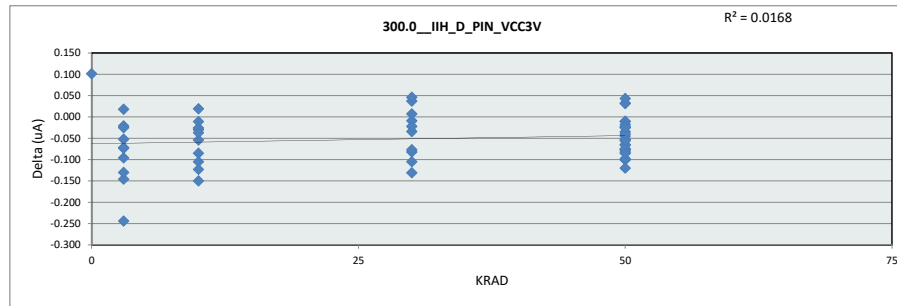


400.13_RDIFF_3.6V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	93	kOhm			
Min Limit	48.1	kOhm			
KRAD	0	3	10	30	50
LL	48.100	48.100	48.100	48.100	48.100
Min	68.145	73.030	73.044	73.330	72.963
Average	68.145	74.082	73.885	73.993	73.851
Max	68.145	75.558	75.178	75.086	75.083
UL	93.000	93.000	93.000	93.000	93.000

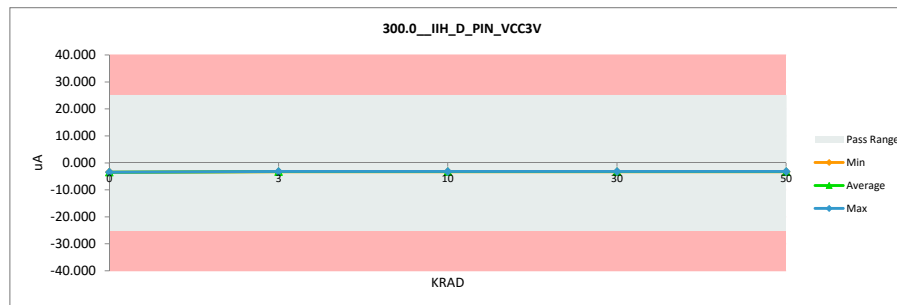


TID Report
TID_REPORT_HVD233_HKX_HDR

300.0_IIH_D_PIN_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	25	25		
Min Limit	-25	-25		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-3.337	-3.438	0.101
3	1	-3.290	-3.269	-0.021
3	2	-3.281	-3.208	-0.073
3	3	-3.296	-3.271	-0.025
3	6	-3.407	-3.163	-0.244
3	11	-3.281	-3.299	0.018
3	UB14	-3.350	-3.204	-0.146
3	UB16	-3.323	-3.271	-0.052
3	UB18	-3.349	-3.277	-0.072
3	UB19	-3.366	-3.236	-0.130
3	UB22	-3.387	-3.291	-0.096
10	23	-3.296	-3.266	-0.030
10	24	-3.343	-3.193	-0.150
10	25	-3.337	-3.283	-0.054
10	28	-3.243	-3.232	-0.011
10	30	-3.345	-3.260	-0.085
10	UB33	-3.287	-3.261	-0.026
10	UB35	-3.289	-3.252	-0.037
10	UB36	-3.319	-3.214	-0.105
10	UB39	-3.243	-3.262	0.019
10	UB40	-3.360	-3.237	-0.123
30	43	-3.316	-3.211	-0.105
30	44	-3.324	-3.242	-0.082
30	48	-3.264	-3.301	0.037
30	50	-3.323	-3.246	-0.077
30	52	-3.305	-3.271	-0.034
30	UB96	-3.300	-3.291	-0.009
30	UB98	-3.218	-3.264	0.046
30	UB99	-3.324	-3.193	-0.131
30	UB101	-3.228	-3.235	0.007
30	UB102	-3.293	-3.271	-0.022
50	105	-3.248	-3.237	-0.011
50	108	-3.302	-3.250	-0.052
50	107	-3.274	-3.239	-0.035
50	111	-3.330	-3.253	-0.077
50	113	-3.278	-3.177	-0.101
50	114	-3.319	-3.254	-0.065
50	115	-3.322	-3.277	-0.045
50	119	-3.330	-3.255	-0.075
50	118	-3.327	-3.261	-0.066
50	121	-3.297	-3.217	-0.080
50	124	-3.292	-3.282	-0.010
50	125	-3.280	-3.312	0.032
50	128	-3.237	-3.269	0.032
50	130	-3.299	-3.245	-0.054
50	131	-3.302	-3.284	-0.018
50	133	-3.358	-3.238	-0.120
50	134	-3.323	-3.248	-0.075
50	135	-3.308	-3.284	-0.024
50	137	-3.281	-3.258	-0.023
50	298	-3.216	-3.259	0.043
50	299	-3.336	-3.238	-0.098
50	UB293	-3.315	-3.259	-0.056
50	UB294	-3.297	-3.213	-0.084
50	UB295	-3.326	-3.241	-0.085
50	UB296	-3.278	-3.238	-0.040
50	UB297	-3.267	-3.242	-0.025
	Max	-3.216	-3.163	0.101
	Average	-3.305	-3.253	-0.051
	Min	-3.407	-3.438	-0.244
	Std Dev	0.040	0.039	0.058



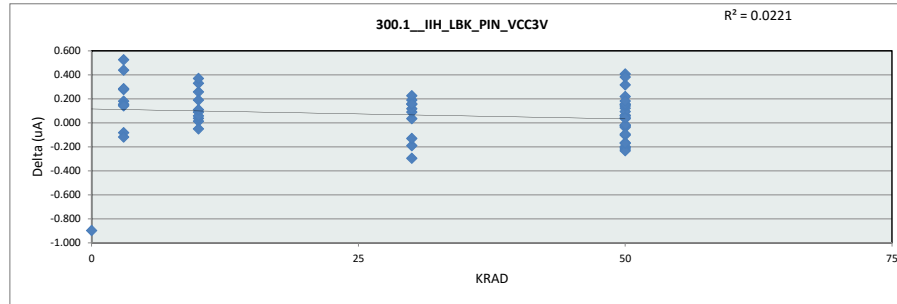
300.0_IIH_D_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25	uA			
Min Limit	-25	uA			
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-3.438	-3.299	-3.283	-3.301	-3.312
Average	-3.438	-3.249	-3.246	-3.253	-3.251
Max	-3.438	-3.163	-3.193	-3.193	-3.177
UL	25.000	25.000	25.000	25.000	25.000



TID Report
TID_REPORT_HVD233_HKX_HDR

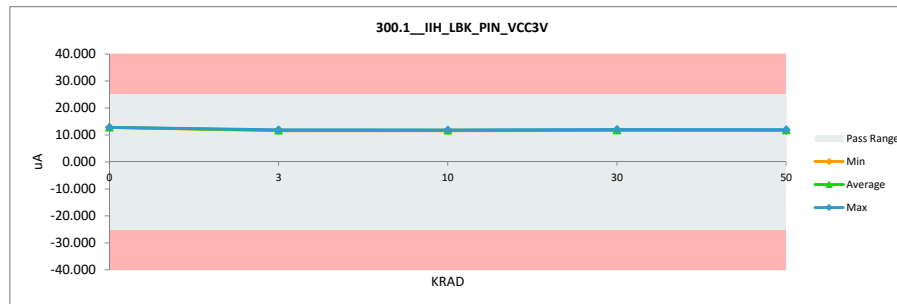
300.1_IIH_LBK_PIN_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	11.904	12.801	-0.897
3	1	11.817	11.899	-0.082
3	2	12.015	11.834	0.181
3	3	11.721	11.838	-0.117
3	6	12.169	11.729	0.440
3	11	11.883	11.732	0.151
3	UB14	12.080	11.802	0.278
3	UB16	11.862	11.577	0.285
3	UB18	11.892	11.736	0.156
3	UB19	12.100	11.573	0.527
3	UB22	12.079	11.936	0.143
10	23	11.721	11.631	0.090
10	24	11.856	11.597	0.259
10	25	11.950	11.620	0.330
10	28	11.809	11.794	0.015
10	30	11.868	11.830	0.038
10	UB33	12.120	11.749	0.371
10	UB35	11.877	11.819	0.058
10	UB36	11.783	11.593	0.190
10	UB39	11.821	11.871	-0.050
10	UB40	11.953	11.842	0.111
30	43	11.735	11.699	0.036
30	44	11.940	11.850	0.090
30	48	11.686	11.875	-0.189
30	50	11.998	11.807	0.191
30	52	12.033	11.915	0.118
30	UB96	11.874	11.718	0.156
30	UB98	11.659	11.788	-0.129
30	UB99	11.939	11.713	0.226
30	UB101	11.736	12.031	-0.295
30	UB102	11.888	11.730	0.158
50	105	11.818	11.919	-0.101
50	108	12.232	11.824	0.408
50	107	11.741	11.766	-0.025
50	111	11.763	11.960	-0.197
50	113	11.924	11.607	0.317
50	114	11.686	11.622	0.064
50	115	11.955	11.978	-0.023
50	119	12.005	11.785	0.220
50	118	11.974	11.822	0.152
50	121	11.647	11.852	-0.205
50	124	11.776	11.993	-0.217
50	125	11.682	11.914	-0.232
50	128	12.001	11.879	0.122
50	130	11.894	11.836	0.058
50	131	11.983	11.889	0.094
50	133	12.032	11.649	0.383
50	134	11.815	11.779	0.036
50	135	11.831	11.690	0.141
50	137	11.789	11.825	-0.036
50	298	11.714	11.880	-0.166
50	299	11.792	11.808	-0.016
50	UB293	11.735	11.828	-0.093
50	UB294	11.920	11.763	0.157
50	UB295	11.806	11.976	-0.170
50	UB296	11.743	11.701	0.042
50	UB297	11.919	11.737	0.182
	Max	12.232	12.801	0.527
	Average	11.876	11.811	0.066
	Min	11.647	11.573	-0.897
	Std Dev	0.135	0.174	0.225



300.1_IIH_LBK_PIN_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	25	uA
Min Limit	-25	uA

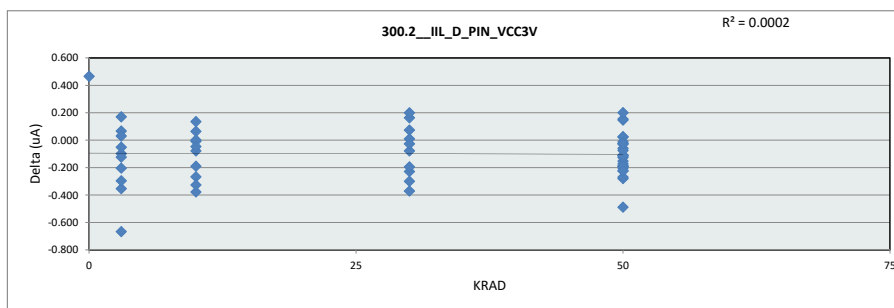
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.801	11.573	11.593	11.699	11.607
Average	12.801	11.766	11.735	11.813	11.819
Max	12.801	11.936	11.871	12.031	11.993
UL	25.000	25.000	25.000	25.000	25.000



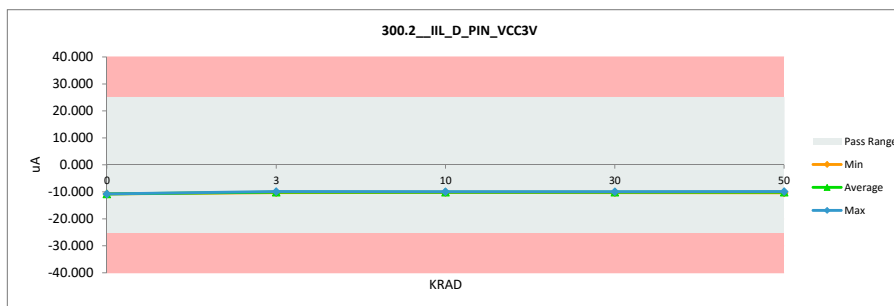
TID Report

TID_REPORT_HVD233_HKX_HDR

300.2_IIL_D_PIN_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	25	25		
Min Limit	-25	-25		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-10.306	-10.772	0.466
3	1	-10.153	-10.220	0.067
3	2	-10.124	-10.026	-0.098
3	3	-10.197	-10.227	0.030
3	6	-10.526	-9.859	-0.667
3	11	-10.125	-10.295	0.170
3	UB14	-10.347	-9.994	-0.353
3	UB16	-10.270	-10.219	-0.051
3	UB18	-10.357	-10.233	-0.124
3	UB19	-10.409	-10.113	-0.296
3	UB22	-10.478	-10.274	-0.204
10	23	-10.197	-10.189	-0.008
10	24	-10.349	-9.971	-0.378
10	25	-10.339	-10.261	-0.078
10	28	-10.037	-10.101	0.064
10	30	-10.368	-10.178	-0.190
10	UB33	-10.191	-10.192	0.001
10	UB35	-10.202	-10.156	-0.046
10	UB36	-10.301	-10.034	-0.267
10	UB39	-10.060	-10.195	0.135
10	UB40	-10.432	-10.105	-0.327
30	43	-10.294	-9.994	-0.300
30	44	-10.319	-10.091	-0.228
30	48	-10.135	-10.298	0.163
30	50	-10.319	-10.124	-0.195
30	52	-10.263	-10.185	-0.078
30	UB96	-10.247	-10.257	0.010
30	UB98	-9.982	-10.182	0.200
30	UB99	-10.328	-9.957	-0.371
30	UB101	-10.016	-10.090	0.074
30	UB102	-10.225	-10.198	-0.027
50	105	-10.083	-10.107	0.024
50	108	-10.253	-10.145	-0.108
50	107	-10.163	-10.104	-0.059
50	111	-10.344	-10.153	-0.191
50	113	-10.176	-9.896	-0.280
50	114	-10.309	-10.156	-0.153
50	115	-10.316	-10.201	-0.115
50	119	-10.344	-10.157	-0.187
50	118	-10.334	-10.161	-0.173
50	121	-10.238	-10.035	-0.203
50	124	-10.218	-10.243	0.025
50	125	-10.184	-10.331	0.147
50	128	-10.045	-10.199	0.154
50	130	-10.244	-10.118	-0.126
50	131	-10.254	-10.242	-0.012
50	133	-10.584	-10.096	-0.488
50	134	-10.322	-10.130	-0.192
50	135	-10.276	-10.250	-0.026
50	137	-10.181	-10.154	-0.027
50	298	-9.975	-10.176	0.201
50	299	-10.364	-10.095	-0.269
50	UB293	-10.291	-10.179	-0.112
50	UB294	-10.241	-10.017	-0.224
50	UB295	-10.330	-10.106	-0.224
50	UB296	-10.176	-10.101	-0.075
50	UB297	-10.139	-10.112	-0.027
	Max	-9.975	-9.859	0.466
	Average	-10.251	-10.152	-0.099
	Min	-10.584	-10.772	-0.667
	Std Dev	0.126	0.129	0.191

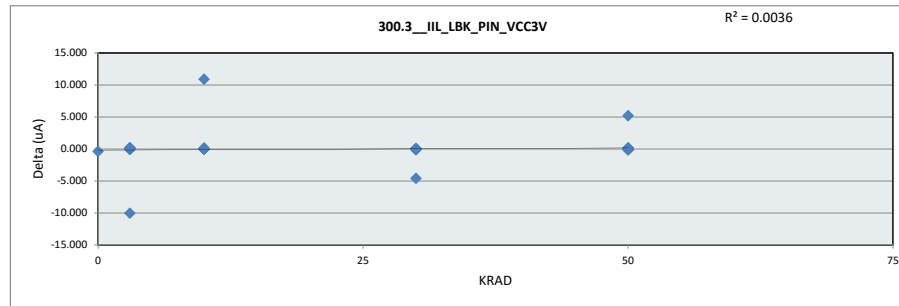


300.2_IIL_D_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25	uA			
Min Limit	-25	uA			
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-10.772	-10.295	-10.261	-10.298	-10.331
Average	-10.772	-10.146	-10.138	-10.138	-10.141
Max	-10.772	-9.859	-9.971	-9.957	-9.896
UL	25.000	25.000	25.000	25.000	25.000

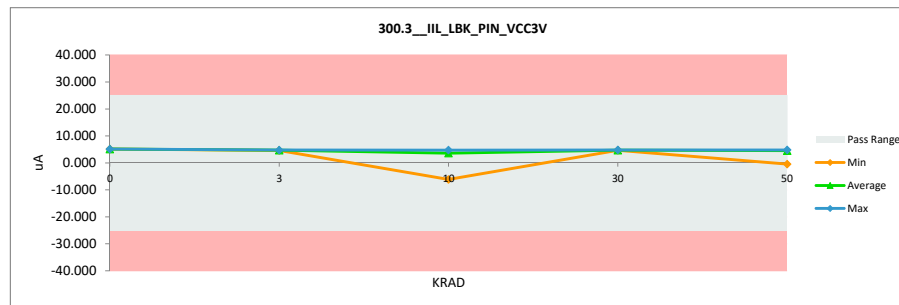


TID Report
TID_REPORT_HVD233_HKX_HDR

300.3_IIL_LBK_PIN_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	25	25		
Min Limit	-25	-25		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	4.740	5.125	-0.385
3	1	4.706	4.763	-0.057
3	2	4.784	4.734	0.050
3	3	4.667	4.739	-0.072
3	6	-5.359	4.696	-10.055
3	11	4.730	4.695	0.035
3	UB14	4.811	4.723	0.088
3	UB16	4.722	4.632	0.090
3	UB18	4.737	4.698	0.039
3	UB19	4.819	4.630	0.189
3	UB22	4.809	4.777	0.032
10	23	4.667	4.657	0.010
10	24	4.722	4.643	0.079
10	25	4.757	4.649	0.108
10	28	4.701	4.720	-0.019
10	30	4.725	4.734	-0.009
10	UB33	4.827	4.703	0.124
10	UB35	4.727	4.729	-0.002
10	UB36	4.692	4.640	0.052
10	UB39	4.706	4.750	-0.044
10	UB40	4.758	-6.131	10.889
30	43	4.673	4.683	-0.010
30	44	4.756	4.742	0.014
30	48	4.652	4.753	-0.101
30	50	4.777	4.726	0.051
30	52	4.792	4.769	0.023
30	UB96	0.081	4.687	-4.606
30	UB98	4.643	4.718	-0.075
30	UB99	4.755	4.687	0.068
30	UB101	4.675	4.815	-0.140
30	UB102	4.735	4.695	0.040
50	105	4.704	4.772	-0.068
50	108	4.871	4.733	0.138
50	107	4.673	4.706	-0.033
50	111	4.684	4.783	-0.099
50	113	4.749	4.644	0.105
50	114	4.652	4.647	0.005
50	115	4.760	4.792	-0.032
50	119	4.782	4.715	0.067
50	118	4.770	-0.435	5.205
50	121	4.638	4.740	-0.102
50	124	4.690	4.798	-0.108
50	125	4.653	4.765	-0.112
50	128	4.779	4.752	0.027
50	130	4.737	4.733	0.004
50	131	4.772	4.757	0.015
50	133	4.791	4.659	0.132
50	134	4.703	4.711	-0.008
50	135	4.711	4.675	0.036
50	137	4.695	4.729	-0.034
50	298	4.663	4.751	-0.088
50	299	4.698	4.722	-0.024
50	UB293	4.673	4.734	-0.061
50	UB294	4.750	4.705	0.045
50	UB295	4.698	4.792	-0.094
50	UB296	4.677	4.681	-0.004
50	UB297	4.747	4.696	0.051
	Max	4.871	5.125	10.889
	Average	4.469	4.445	0.024
	Min	-5.359	-6.131	-10.055
	Std Dev	1.462	1.583	2.189



300.3_IIL_LBK_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25	uA			
Min Limit	-25	uA			
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	5.125	4.630	-6.131	4.683	-0.435
Average	5.125	4.709	3.609	4.728	4.529
Max	5.125	4.777	4.750	4.815	4.798
UL	25.000	25.000	25.000	25.000	25.000

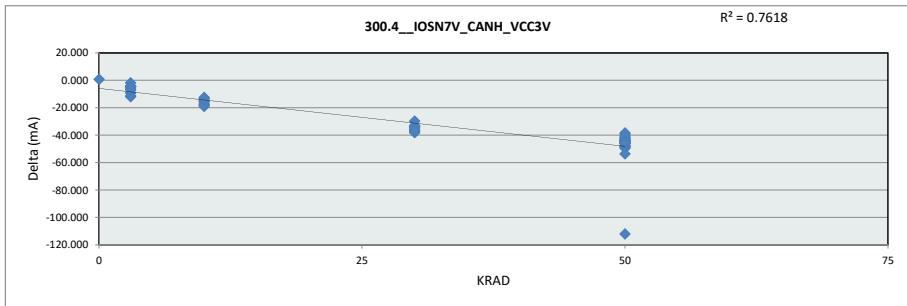


TID Report
TID_REPORT_HVD233_HKX_HDR

300.4_IOSN7V_CANH_VCC3V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	0.9	0.9
Min Limit	-245	-245

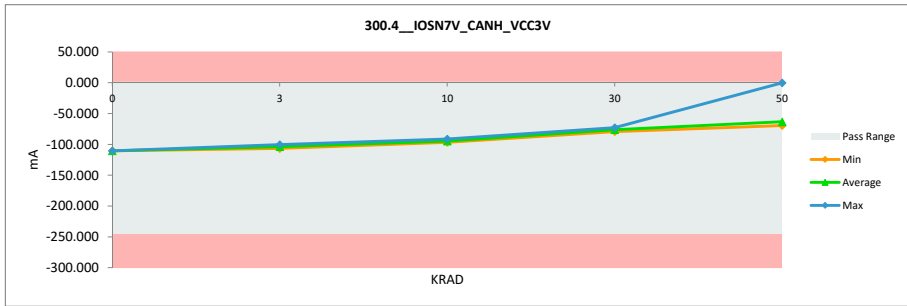
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-109.626	-110.367	0.741
3	1	-107.744	-103.689	-4.055
3	2	-109.678	-104.755	-4.923
3	3	-108.436	-106.656	-1.780
3	6	-112.076	-100.187	-11.889
3	11	-109.795	-103.556	-6.239
3	UB14	-109.463	-104.794	-4.669
3	UB16	-110.974	-101.845	-9.129
3	UB18	-110.509	-105.969	-4.540
3	UB19	-111.946	-100.510	-11.436
3	UB22	-111.677	-104.710	-6.967
10	23	-108.436	-91.213	-17.223
10	24	-110.845	-91.844	-19.001
10	25	-110.866	-93.447	-17.419
10	28	-109.353	-96.226	-13.127
10	30	-111.201	-95.659	-15.542
10	UB33	-110.713	-95.017	-15.696
10	UB35	-112.382	-94.129	-18.253
10	UB36	-110.416	-95.599	-14.817
10	UB39	-109.214	-96.766	-12.448
10	UB40	-109.211	-95.694	-13.517
30	43	-110.811	-72.747	-38.064
30	44	-112.113	-78.131	-33.982
30	48	-108.953	-79.265	-29.688
30	50	-112.391	-78.943	-33.448
30	52	-107.587	-74.200	-33.387
30	UB96	-109.169	-73.307	-35.862
30	UB98	-111.444	-78.546	-32.898
30	UB99	-112.705	-75.256	-37.449
30	UB101	-111.703	-77.022	-34.681
30	UB102	-111.301	-74.948	-36.353
50	105	-105.858	-66.863	-38.995
50	108	-112.122	-67.694	-44.428
50	107	-110.840	-62.618	-48.222
50	111	-110.327	-60.907	-49.420
50	113	-110.043	-67.270	-42.773
50	114	-110.531	-64.887	-45.644
50	115	-112.375	-64.377	-47.998
50	119	-109.488	-65.201	-44.287
50	118	-112.053	-65.932	-46.121
50	121	-110.021	-66.002	-44.019
50	124	-110.915	-68.959	-41.956
50	125	-108.892	-65.067	-43.825
50	128	-110.748	-66.845	-43.903
50	130	-112.314	-68.674	-43.640
50	131	-111.556	-68.421	-43.135
50	133	-112.210	-63.424	-48.786
50	134	-112.342	-0.235	-112.107
50	135	-110.897	-63.502	-47.395
50	137	-110.663	-69.191	-41.472
50	298	-107.712	-69.361	-38.351
50	299	-109.519	-68.903	-40.616
50	UB293	-110.863	-66.350	-44.513
50	UB294	-112.239	-58.577	-53.662
50	UB295	-110.483	-65.681	-44.802
50	UB296	-111.853	-65.850	-46.003
50	UB297	-110.883	-65.567	-45.316
	Max	-105.858	-0.235	0.741
	Average	-110.535	-78.971	-31.564
	Min	-112.705	-110.367	-112.107
	Std Dev	1.466	19.083	19.466



300.4_IOSN7V_CANH_VCC3V

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	0.9 mA
Min Limit	-245 mA

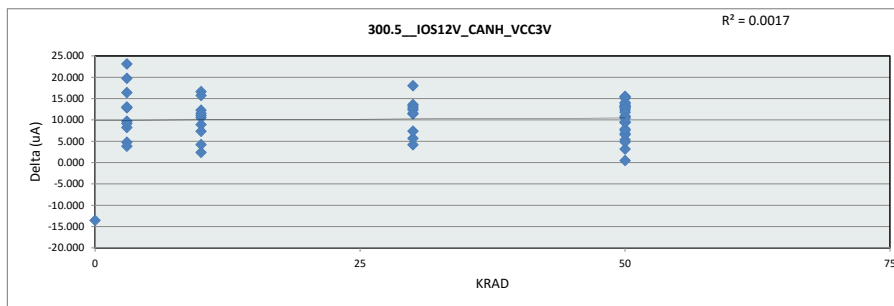
KRAD	0	3	10	30	50
LL	-245.000	-245.000	-245.000	-245.000	-245.000
Min	-110.367	-106.656	-96.766	-79.265	-69.361
Average	-110.367	-103.667	-94.559	-76.237	-63.321
Max	-110.367	-100.187	-91.213	-72.747	-0.235
UL	0.900	0.900	0.900	0.900	0.900



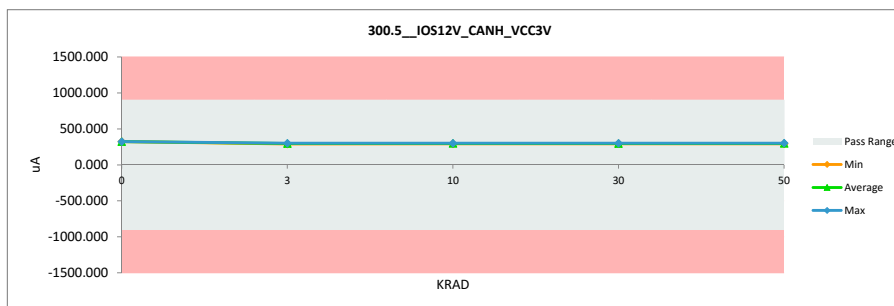
TID Report

TID_REPORT_HVD233_HKX_HDR

300.5_IOS12V_CANH_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	900	900		
Min Limit	-900	-900		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	309.333	322.880	-13.547
3	1	304.315	299.521	4.794
3	2	306.703	297.018	9.685
3	3	305.310	301.453	3.857
3	6	313.872	290.762	23.110
3	11	305.634	297.391	8.243
3	UB14	309.305	296.473	12.832
3	UB16	311.652	295.246	16.406
3	UB18	310.050	300.891	9.159
3	UB19	313.090	293.338	19.752
3	UB22	312.910	299.873	13.037
10	23	305.310	294.786	10.524
10	24	309.276	292.657	16.619
10	25	312.156	296.411	15.745
10	28	304.188	299.984	4.204
10	30	309.853	300.940	8.913
10	UB33	310.001	298.942	11.059
10	UB35	309.796	297.498	12.298
10	UB36	308.743	297.227	11.516
10	UB39	304.143	301.756	2.387
10	UB40	307.842	300.497	7.345
30	43	305.958	293.191	12.767
30	44	311.767	298.159	13.608
30	48	304.622	300.456	4.166
30	50	312.492	299.242	13.250
30	52	307.826	296.292	11.534
30	UB96	309.882	297.519	12.363
30	UB98	305.773	300.087	5.686
30	UB99	311.898	293.888	18.010
30	UB101	307.010	299.656	7.354
30	UB102	307.928	296.526	11.402
50	105	303.287	300.111	3.176
50	108	311.951	296.817	15.134
50	107	306.412	293.441	12.971
50	111	306.978	296.325	10.653
50	113	307.260	294.963	12.297
50	114	307.338	293.962	13.376
50	115	310.325	297.252	13.073
50	119	310.632	296.866	13.766
50	118	312.283	299.053	13.230
50	121	304.495	297.724	6.771
50	124	307.096	300.542	6.554
50	125	304.929	299.570	5.359
50	128	307.862	298.368	9.494
50	130	310.202	299.299	10.903
50	131	311.496	302.048	9.448
50	133	312.488	297.039	15.449
50	134	310.538	296.440	14.098
50	135	309.624	296.883	12.741
50	137	306.715	301.912	4.803
50	298	302.410	301.933	0.477
50	299	307.768	300.210	7.558
50	UB293	307.912	300.054	7.858
50	UB294	309.853	294.352	15.501
50	UB295	309.710	300.317	9.393
50	UB296	308.907	297.113	11.794
50	UB297	308.547	298.105	10.442
	Max	313.872	322.880	23.110
	Average	308.520	298.268	10.253
	Min	302.410	290.762	-13.547
	Std Dev	2.809	4.250	5.493

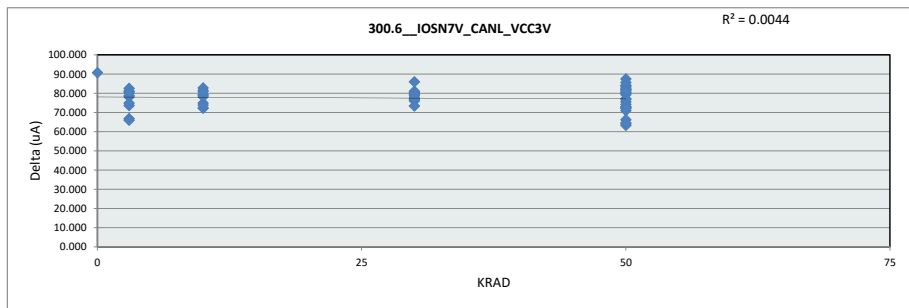


300.5_IOS12V_CANH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	900	uA			
Min Limit	-900	uA			
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	322.880	290.762	292.657	293.191	293.441
Average	322.880	297.197	298.070	297.502	298.104
Max	322.880	301.453	301.756	300.456	302.048
UL	900.000	900.000	900.000	900.000	900.000

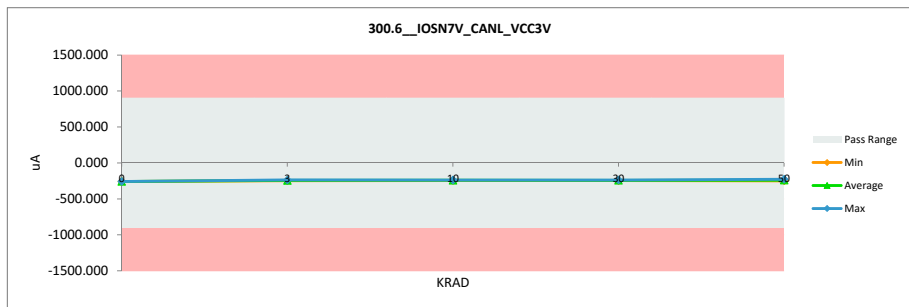


TID Report
TID_REPORT_HVD233_HKX_HDR

300.6_IOSN7V_CANL_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	900	900		
Min Limit	-900	-900		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-167.092	-257.795	90.703
3	1	-165.204	-246.379	81.175
3	2	-164.752	-245.640	80.888
3	3	-162.412	-244.941	82.529
3	6	-172.182	-239.028	66.846
3	11	-163.726	-242.560	78.834
3	UB14	-165.778	-243.956	78.178
3	UB16	-168.611	-242.272	73.661
3	UB18	-165.942	-246.214	80.272
3	UB19	-170.581	-236.605	66.024
3	UB22	-167.831	-242.765	74.934
10	23	-162.412	-237.345	74.933
10	24	-165.614	-237.961	72.347
10	25	-166.558	-238.864	72.306
10	28	-161.386	-242.970	81.584
10	30	-165.532	-244.859	79.327
10	UB33	-164.383	-243.217	78.834
10	UB35	-165.655	-239.439	73.784
10	UB36	-162.741	-240.958	78.217
10	UB39	-161.838	-244.695	82.857
10	UB40	-163.151	-243.956	80.805
30	43	-161.263	-237.304	76.041
30	44	-165.368	-242.231	76.863
30	48	-159.293	-245.270	85.977
30	50	-164.957	-245.065	80.108
30	52	-163.356	-242.067	78.711
30	UB96	-163.274	-244.326	81.052
30	UB98	-162.043	-242.724	80.681
30	UB99	-164.793	-238.166	73.373
30	UB101	-163.151	-242.560	79.409
30	UB102	-163.685	-241.246	77.561
50	105	-160.647	-248.145	87.498
50	108	-168.241	-247.570	79.329
50	107	-162.371	-248.062	85.691
50	111	-163.726	-247.077	83.351
50	113	-164.095	-247.939	83.844
50	114	-163.233	-245.188	81.955
50	115	-165.286	-249.418	84.132
50	119	-165.039	-247.077	82.038
50	118	-166.353	-248.062	81.709
50	121	-162.823	-243.094	80.271
50	124	-163.192	-245.393	82.201
50	125	-161.961	-242.190	80.229
50	128	-163.274	-240.465	77.191
50	130	-164.465	-240.055	75.590
50	131	-166.435	-243.299	76.864
50	133	-167.831	-240.178	72.347
50	134	-164.670	-237.345	72.675
50	135	-164.177	-237.345	73.168
50	137	-161.017	-235.291	74.274
50	298	-156.748	-237.837	81.089
50	299	-161.591	-232.540	70.949
50	UB293	-161.345	-233.567	72.222
50	UB294	-162.987	-227.120	64.133
50	UB295	-163.356	-229.624	66.268
50	UB296	-162.905	-226.257	63.352
50	UB297	-162.864	-227.407	64.543
	Max	-156.748	-226.257	90.703
	Average	-164.126	-241.595	77.469
	Min	-172.182	-257.795	63.352
	Std Dev	2.615	5.829	5.956



300.6_IOSN7V_CANL_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	900	uA			
Min Limit	-900	uA			
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	-257.795	-246.379	-244.859	-245.270	-249.418
Average	-257.795	-243.036	-241.426	-242.096	-240.290
Max	-257.795	-236.605	-237.345	-237.304	-226.257
UL	900.000	900.000	900.000	900.000	900.000

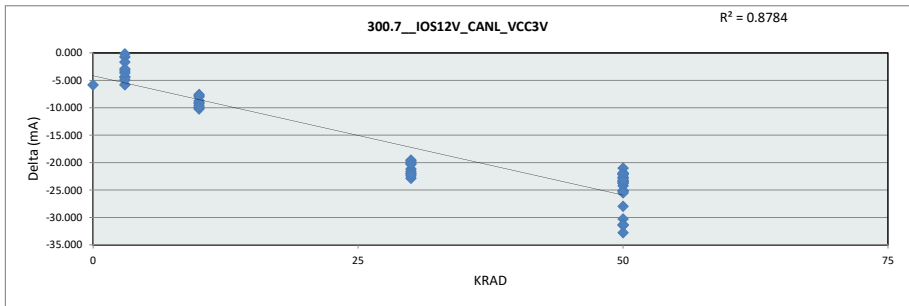


TID Report
TID_REPORT_HVD233_HKX_HDR

300.7_IOS12V_CANL_VCC3V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	245	245
Min Limit	-0.9	-0.9

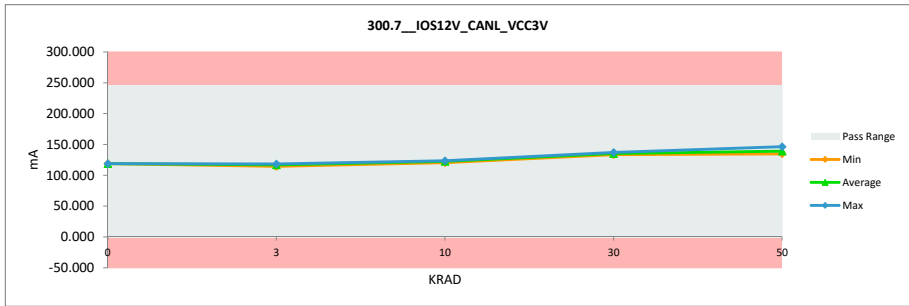
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	112.923	118.764	-5.841
3	1	112.661	117.095	-4.434
3	2	112.860	117.224	-4.364
3	3	112.386	118.209	-5.823
3	6	114.312	115.056	-0.744
3	11	113.429	116.701	-3.272
3	UB14	113.350	118.270	-4.920
3	UB16	113.762	115.431	-1.669
3	UB18	113.489	117.132	-3.643
3	UB19	114.164	114.336	-0.172
3	UB22	114.282	117.200	-2.918
10	23	112.386	120.379	-7.993
10	24	113.125	122.180	-9.055
10	25	114.267	121.864	-7.597
10	28	113.152	122.701	-9.549
10	30	114.019	123.202	-9.183
10	UB33	113.773	122.494	-8.721
10	UB35	114.785	122.572	-7.787
10	UB36	113.434	123.391	-9.957
10	UB39	113.271	123.471	-10.200
10	UB40	113.768	123.616	-9.848
30	43	113.383	133.482	-20.099
30	44	114.594	134.345	-19.751
30	48	113.564	134.714	-21.150
30	50	114.804	134.340	-19.536
30	52	111.756	133.328	-21.572
30	UB96	114.711	135.023	-20.312
30	UB98	114.150	137.023	-22.873
30	UB99	114.250	136.662	-22.412
30	UB101	114.443	136.367	-21.924
30	UB102	113.634	135.730	-22.096
50	105	111.809	139.791	-27.982
50	108	114.876	136.835	-21.959
50	107	114.664	137.328	-22.664
50	111	113.794	134.809	-21.015
50	113	114.182	137.582	-23.400
50	114	113.385	136.907	-23.522
50	115	114.310	136.199	-21.889
50	119	114.666	138.877	-24.211
50	118	114.593	138.352	-23.759
50	121	112.577	137.764	-25.187
50	124	114.775	137.714	-22.939
50	125	112.405	137.485	-25.080
50	128	113.998	136.168	-22.170
50	130	114.399	137.822	-23.423
50	131	115.033	137.743	-22.710
50	133	114.799	138.529	-23.730
50	134	114.159	136.228	-22.069
50	135	114.683	136.799	-22.116
50	137	115.096	138.326	-23.230
50	298	113.160	138.375	-25.215
50	299	112.644	138.173	-25.529
50	UB293	114.668	146.011	-31.343
50	UB294	113.863	144.152	-30.289
50	UB295	113.530	146.322	-32.792
50	UB296	114.357	145.804	-31.447
50	UB297	114.996	146.321	-31.325
	Max	115.096	146.322	-0.172
	Average	113.830	131.206	-17.376
	Min	111.756	114.336	-32.792
	Std Dev	0.847	9.562	9.333



300.7_IOS12V_CANL_VCC3V

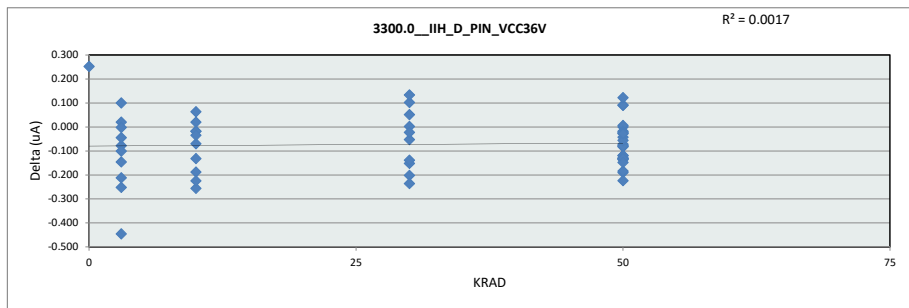
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	245 mA
Min Limit	-0.9 mA

KRAD	0	3	10	30	50
LL	-0.900	-0.900	-0.900	-0.900	-0.900
Min	118.764	114.336	120.379	133.328	134.809
Average	118.764	116.665	122.587	135.101	139.093
Max	118.764	118.270	123.616	137.023	146.322
UL	245.000	245.000	245.000	245.000	245.000

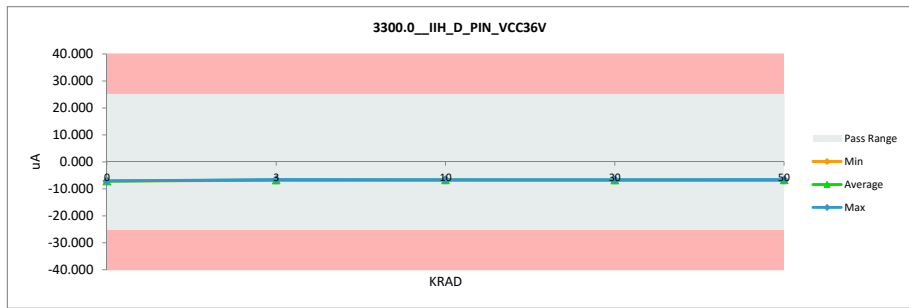


TID Report
TID_REPORT_HVD233_HKX_HDR

3300.0_IIH_D_PIN_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	25	25		
Min Limit	-25	-25		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-6.839	-7.091	0.252
3	1	-6.739	-6.759	0.020
3	2	-6.715	-6.637	-0.078
3	3	-6.760	-6.758	-0.002
3	6	-6.979	-6.533	-0.446
3	11	-6.715	-6.815	0.100
3	UB14	-6.870	-6.618	-0.252
3	UB16	-6.808	-6.763	-0.045
3	UB18	-6.872	-6.771	-0.101
3	UB19	-6.903	-6.691	-0.212
3	UB22	-6.947	-6.801	-0.146
10	23	-6.760	-6.742	-0.018
10	24	-6.859	-6.603	-0.256
10	25	-6.853	-6.783	-0.070
10	28	-6.655	-6.675	0.020
10	30	-6.867	-6.735	-0.132
10	UB33	-6.758	-6.740	-0.018
10	UB35	-6.760	-6.725	-0.035
10	UB36	-6.826	-6.638	-0.188
10	UB39	-6.679	-6.742	0.063
10	UB40	-6.912	-6.687	-0.225
30	43	-6.824	-6.622	-0.202
30	44	-6.838	-6.686	-0.152
30	48	-6.716	-6.818	0.102
30	50	-6.840	-6.701	-0.139
30	52	-6.801	-6.748	-0.053
30	UB96	-6.787	-6.789	0.002
30	UB98	-6.606	-6.739	0.133
30	UB99	-6.834	-6.598	-0.236
30	UB101	-6.632	-6.683	0.051
30	UB102	-6.777	-6.754	-0.023
50	105	-6.689	-6.689	0.000
50	108	-6.794	-6.711	-0.083
50	107	-6.730	-6.687	-0.043
50	111	-6.852	-6.719	-0.133
50	113	-6.734	-6.544	-0.190
50	114	-6.837	-6.717	-0.120
50	115	-6.833	-6.761	-0.072
50	119	-6.851	-6.718	-0.133
50	118	-6.845	-6.726	-0.119
50	121	-6.777	-6.648	-0.129
50	124	-6.769	-6.775	0.006
50	125	-6.743	-6.834	0.091
50	128	-6.659	-6.749	0.090
50	130	-6.782	-6.704	-0.078
50	131	-6.791	-6.773	-0.018
50	133	-6.911	-6.687	-0.224
50	134	-6.830	-6.694	-0.136
50	135	-6.805	-6.779	-0.026
50	137	-6.748	-6.726	-0.022
50	298	-6.612	-6.734	0.122
50	299	-6.866	-6.682	-0.184
50	UB293	-6.819	-6.739	-0.080
50	UB294	-6.775	-6.642	-0.133
50	UB295	-6.845	-6.697	-0.148
50	UB296	-6.742	-6.686	-0.056
50	UB297	-6.723	-6.695	-0.028
	Max	-6.606	-6.533	0.252
	Average	-6.791	-6.719	-0.072
	Min	-6.979	-7.091	-0.446
	Std Dev	0.080	0.080	0.119

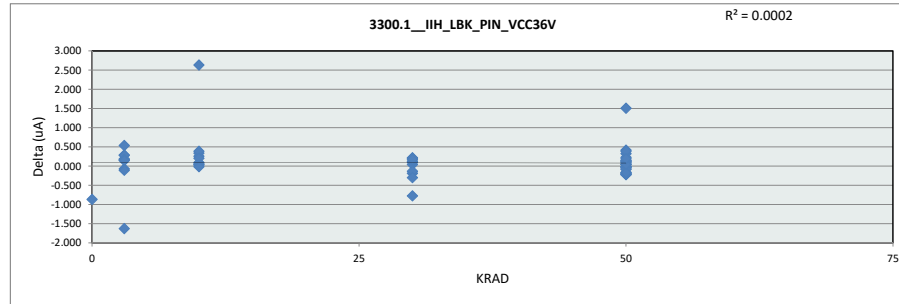


3300.0_IIH_D_PIN_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25	uA			
Min Limit	-25	uA			
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-7.091	-6.815	-6.783	-6.818	-6.834
Average	-7.091	-6.715	-6.707	-6.714	-6.712
Max	-7.091	-6.533	-6.603	-6.598	-6.544
UL	25.000	25.000	25.000	25.000	25.000

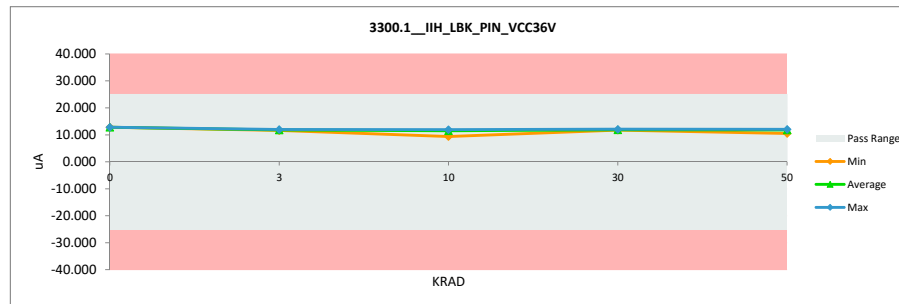


TID Report
TID_REPORT_HVD233_HKX_HDR

3300.1_IIH_LBK_PIN_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	25	25		
Min Limit	-25	-25		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	11.953	12.818	-0.865
3	1	11.867	11.937	-0.070
3	2	12.061	11.875	0.186
3	3	11.764	11.872	-0.108
3	6	10.146	11.777	-1.631
3	11	11.929	11.771	0.158
3	UB14	12.135	11.846	0.289
3	UB16	11.903	11.618	0.285
3	UB18	11.941	11.775	0.166
3	UB19	12.148	11.610	0.538
3	UB22	12.125	11.978	0.147
10	23	11.764	11.669	0.095
10	24	11.901	11.644	0.257
10	25	11.995	11.657	0.338
10	28	11.855	11.826	0.029
10	30	11.909	11.869	0.040
10	UB33	12.173	11.784	0.389
10	UB35	11.923	11.862	0.061
10	UB36	11.832	11.630	0.202
10	UB39	11.889	11.908	-0.019
10	UB40	12.001	9.368	2.633
30	43	11.785	11.743	0.042
30	44	11.990	11.894	0.096
30	48	11.732	11.918	-0.186
30	50	12.047	11.843	0.204
30	52	12.080	11.958	0.122
30	UB96	10.982	11.757	-0.775
30	UB98	11.695	11.827	-0.132
30	UB99	11.978	11.762	0.216
30	UB101	11.778	12.079	-0.301
30	UB102	11.939	11.773	0.166
50	105	11.888	11.958	-0.070
50	108	12.280	11.862	0.418
50	107	11.783	11.806	-0.023
50	111	11.809	12.002	-0.193
50	113	11.963	11.637	0.326
50	114	11.740	11.656	0.084
50	115	11.999	12.026	-0.027
50	119	12.049	11.819	0.230
50	118	12.022	10.516	1.506
50	121	11.687	11.897	-0.210
50	124	11.819	12.032	-0.213
50	125	11.724	11.950	-0.226
50	128	12.052	11.918	0.134
50	130	11.934	11.883	0.051
50	131	12.026	11.923	0.103
50	133	12.079	11.692	0.387
50	134	11.850	11.811	0.039
50	135	11.875	11.725	0.150
50	137	11.837	11.868	-0.031
50	298	11.759	11.920	-0.161
50	299	11.838	11.848	-0.010
50	UB293	11.786	11.869	-0.083
50	UB294	11.957	11.827	0.130
50	UB295	11.854	12.025	-0.171
50	UB296	11.789	11.742	0.047
50	UB297	11.971	11.778	0.193
	Max	12.280	12.818	2.633
	Average	11.870	11.783	0.087
	Min	10.146	9.368	-1.631
	Std Dev	0.294	0.409	0.515



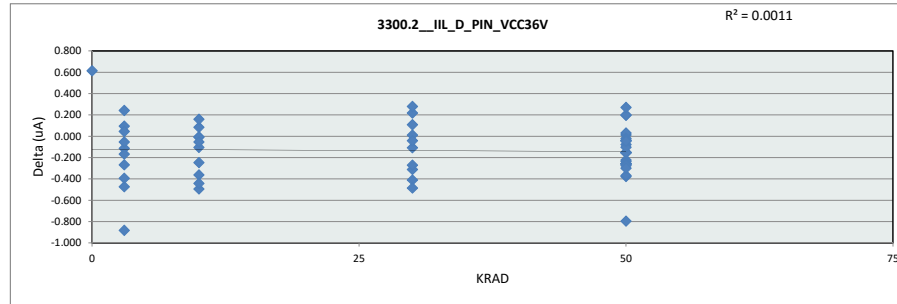
3300.1_IIH_LBK_PIN_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25	uA			
Min Limit	-25	uA			
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.818	11.610	9.368	11.743	10.516
Average	12.818	11.806	11.522	11.855	11.807
Max	12.818	11.978	11.908	12.079	12.032
UL	25.000	25.000	25.000	25.000	25.000



TID Report
TID_REPORT_HVD233_HKX_HDR

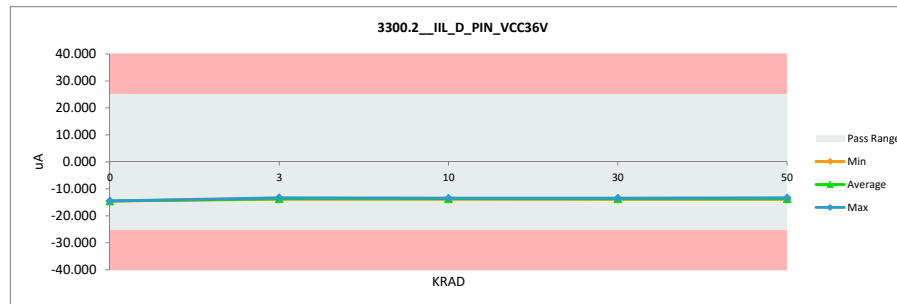
3300.2_IIL_D_PIN_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-13.887	-14.500	0.613
3	1	-13.683	-13.778	0.095
3	2	-13.635	-13.522	-0.113
3	3	-13.738	-13.783	0.045
3	6	-14.178	-13.295	-0.883
3	11	-13.636	-13.878	0.242
3	UB14	-13.949	-13.475	-0.474
3	UB16	-13.832	-13.778	-0.054
3	UB18	-13.961	-13.794	-0.167
3	UB19	-14.027	-13.633	-0.394
3	UB22	-14.119	-13.851	-0.268
10	23	-13.738	-13.730	-0.008
10	24	-13.944	-13.450	-0.494
10	25	-13.934	-13.829	-0.105
10	28	-13.526	-13.610	0.084
10	30	-13.967	-13.720	-0.247
10	UB33	-13.741	-13.736	-0.005
10	UB35	-13.750	-13.696	-0.054
10	UB36	-13.887	-13.524	-0.363
10	UB39	-13.583	-13.742	0.159
10	UB40	-14.063	-13.621	-0.442
30	43	-13.883	-13.473	-0.410
30	44	-13.913	-13.602	-0.311
30	48	-13.665	-13.883	0.218
30	50	-13.915	-13.644	-0.271
30	52	-13.838	-13.731	-0.107
30	UB96	-13.811	-13.822	0.011
30	UB98	-13.444	-13.724	0.280
30	UB99	-13.916	-13.430	-0.486
30	UB101	-13.496	-13.605	0.109
30	UB102	-13.789	-13.747	-0.042
50	105	-13.611	-13.624	0.013
50	108	-13.824	-13.673	-0.151
50	107	-13.696	-13.619	-0.077
50	111	-13.945	-13.688	-0.257
50	113	-13.706	-13.328	-0.378
50	114	-13.909	-13.686	-0.223
50	115	-13.905	-13.753	-0.152
50	119	-13.944	-13.686	-0.258
50	118	-13.931	-13.694	-0.237
50	121	-13.793	-13.534	-0.259
50	124	-13.772	-13.803	0.031
50	125	-13.724	-13.921	0.197
50	128	-13.547	-13.747	0.200
50	130	-13.802	-13.646	-0.156
50	131	-13.820	-13.799	-0.021
50	133	-14.409	-13.613	-0.796
50	134	-13.904	-13.643	-0.261
50	135	-13.850	-13.812	-0.038
50	137	-13.726	-13.688	-0.038
50	298	-13.448	-13.718	0.270
50	299	-13.974	-13.605	-0.369
50	UB293	-13.876	-13.724	-0.152
50	UB294	-13.795	-13.521	-0.274
50	UB295	-13.928	-13.629	-0.299
50	UB296	-13.718	-13.615	-0.103
50	UB297	-13.676	-13.630	-0.046
	Max	-13.444	-13.295	0.613
	Average	-13.819	-13.684	-0.135
	Min	-14.409	-14.500	-0.883
	Std Dev	0.177	0.170	0.261



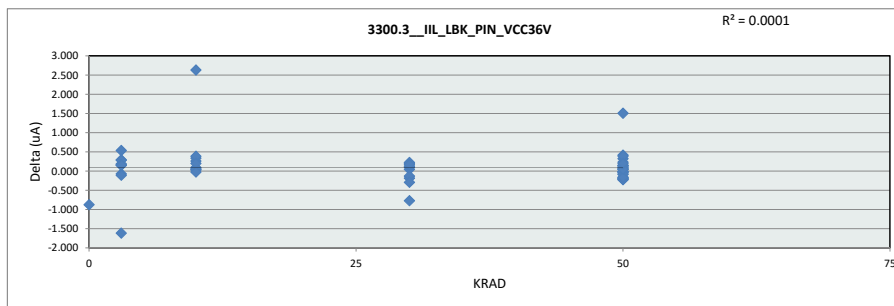
3300.2_IIL_D_PIN_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	25	uA
Min Limit	-25	uA

KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-14.500	-13.878	-13.829	-13.883	-13.921
Average	-14.500	-13.679	-13.666	-13.666	-13.669
Max	-14.500	-13.295	-13.450	-13.430	-13.328
UL	25.000	25.000	25.000	25.000	25.000

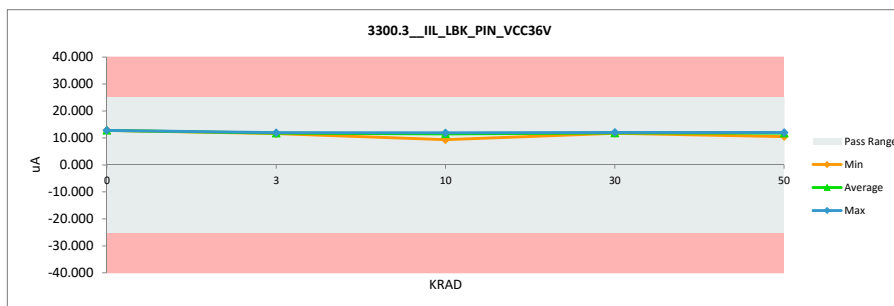


TID Report
TID_REPORT_HVD233_HKX_HDR

3300.3_IIL_LBK_PIN_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	25	25		
Min Limit	-25	-25		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	11.934	12.810	-0.876
3	1	11.848	11.919	-0.071
3	2	12.042	11.855	0.187
3	3	11.747	11.855	-0.108
3	6	10.135	11.753	-1.618
3	11	11.910	11.752	0.158
3	UB14	12.114	11.824	0.290
3	UB16	11.886	11.597	0.289
3	UB18	11.922	11.756	0.166
3	UB19	12.129	11.592	0.537
3	UB22	12.107	11.957	0.150
10	23	11.747	11.650	0.097
10	24	11.883	11.621	0.262
10	25	11.977	11.639	0.338
10	28	11.837	11.810	0.027
10	30	11.892	11.849	0.043
10	UB33	12.153	11.766	0.387
10	UB35	11.905	11.841	0.064
10	UB36	11.812	11.612	0.200
10	UB39	11.866	11.890	-0.024
10	UB40	11.982	9.349	2.633
30	43	11.767	11.721	0.046
30	44	11.970	11.872	0.098
30	48	11.714	11.896	-0.182
30	50	12.028	11.825	0.203
30	52	12.062	11.936	0.126
30	UB96	10.966	11.737	-0.771
30	UB98	11.680	11.808	-0.128
30	UB99	11.962	11.738	0.224
30	UB101	11.761	12.055	-0.294
30	UB102	11.919	11.752	0.167
50	105	11.864	11.938	-0.074
50	108	12.261	11.843	0.418
50	107	11.766	11.785	-0.019
50	111	11.791	11.981	-0.190
50	113	11.947	11.622	0.325
50	114	11.719	11.638	0.081
50	115	11.982	12.002	-0.020
50	119	12.032	11.801	0.231
50	118	12.003	10.497	1.506
50	121	11.671	11.874	-0.203
50	124	11.802	12.011	-0.209
50	125	11.707	11.931	-0.224
50	128	12.033	11.898	0.135
50	130	11.918	11.859	0.059
50	131	12.008	11.905	0.103
50	133	12.060	11.670	0.390
50	134	11.836	11.793	0.043
50	135	11.857	11.707	0.150
50	137	11.818	11.846	-0.028
50	298	11.742	11.899	-0.157
50	299	11.820	11.827	-0.007
50	UB293	11.766	11.848	-0.082
50	UB294	11.942	11.796	0.146
50	UB295	11.835	12.000	-0.165
50	UB296	11.770	11.721	0.049
50	UB297	11.951	11.757	0.194
	Max	12.261	12.810	2.633
	Average	11.852	11.763	0.089
	Min	10.135	9.349	-1.618
	Std Dev	0.293	0.409	0.515

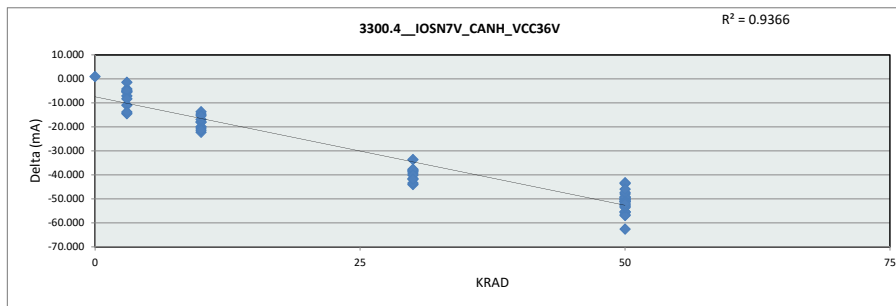


3300.3_IIL_LBK_PIN_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25	uA			
Min Limit	-25	uA			
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.810	11.592	9.349	11.721	10.497
Average	12.810	11.786	11.503	11.834	11.787
Max	12.810	11.957	11.890	12.055	12.011
UL	25.000	25.000	25.000	25.000	25.000

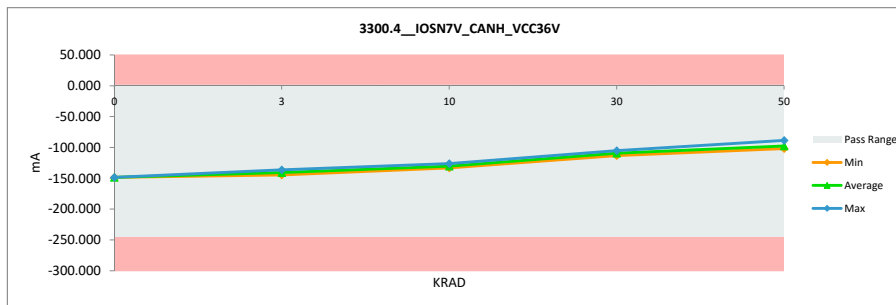


TID Report
TID_REPORT_HVD233_HKX_HDR

3300.4_IOSN7V_CANH_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.9	0.9		
Min Limit	-245	-245		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-147.607	-148.580	0.973
3	1	-145.191	-141.012	-4.179
3	2	-147.649	-142.177	-5.472
3	3	-146.062	-144.647	-1.415
3	6	-150.861	-136.364	-14.497
3	11	-147.909	-140.820	-7.089
3	UB14	-147.441	-142.245	-5.196
3	UB16	-149.539	-138.612	-10.927
3	UB18	-148.720	-143.823	-4.897
3	UB19	-150.626	-136.808	-13.818
3	UB22	-150.387	-142.095	-8.292
10	23	-146.062	-126.199	-19.863
10	24	-149.170	-126.995	-22.175
10	25	-149.447	-129.005	-20.442
10	28	-147.227	-132.566	-14.661
10	30	-149.857	-131.844	-18.013
10	UB33	-148.996	-131.021	-17.975
10	UB35	-151.218	-129.892	-21.326
10	UB36	-148.717	-131.826	-16.891
10	UB39	-146.896	-133.222	-13.674
10	UB40	-147.271	-131.907	-15.364
30	43	-149.084	-105.086	-43.998
30	44	-150.904	-111.708	-39.196
30	48	-146.777	-113.164	-33.613
30	50	-151.284	-112.795	-38.489
30	52	-145.168	-106.934	-38.234
30	UB96	-147.503	-105.955	-41.548
30	UB98	-150.103	-112.455	-37.648
30	UB99	-151.708	-108.276	-43.432
30	UB101	-150.474	-110.433	-40.041
30	UB102	-149.706	-107.929	-41.777
50	105	-142.630	-99.035	-43.595
50	108	-150.932	-99.806	-51.126
50	107	-149.406	-93.656	-55.750
50	111	-148.728	-92.033	-56.695
50	113	-148.412	-99.310	-49.102
50	114	-148.752	-96.349	-52.403
50	115	-151.217	-95.790	-55.427
50	119	-147.724	-97.003	-50.721
50	118	-150.883	-97.833	-53.050
50	121	-148.161	-98.121	-50.040
50	124	-149.458	-101.524	-47.934
50	125	-146.751	-97.210	-49.541
50	128	-149.068	-98.783	-50.285
50	130	-151.228	-101.088	-50.140
50	131	-150.250	-100.871	-49.379
50	133	-151.105	-95.778	-55.327
50	134	-151.280	-94.351	-56.929
50	135	-149.448	-95.874	-53.574
50	137	-149.071	-101.765	-47.306
50	298	-145.204	-101.949	-43.255
50	299	-147.459	-101.543	-45.916
50	UB293	-149.362	-98.361	-51.001
50	UB294	-151.104	-88.492	-62.612
50	UB295	-148.762	-97.520	-51.242
50	UB296	-150.637	-97.687	-52.950
50	UB297	-149.364	-97.384	-51.980
	Max	-142.630	-88.492	0.973
	Average	-148.876	-113.956	-34.920
	Min	-151.708	-148.580	-62.612
	Std Dev	1.921	18.283	18.765



3300.4_IOSN7V_CANH_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.9	mA			
Min Limit	-245	mA			
KRAD	0	3	10	30	50
LL	-245.000	-245.000	-245.000	-245.000	-245.000
Min	-148.580	-144.647	-133.222	-113.164	-101.949
Average	-148.580	-140.860	-130.448	-109.474	-97.658
Max	-148.580	-136.364	-126.199	-105.086	-88.492
UL	0.900	0.900	0.900	0.900	0.900

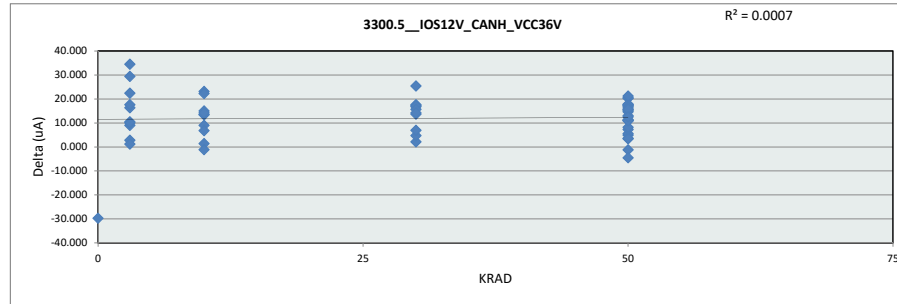


TID Report
TID_REPORT_HVD233_HKX_HDR

3300.5_IOS12V_CANH_VCC36V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

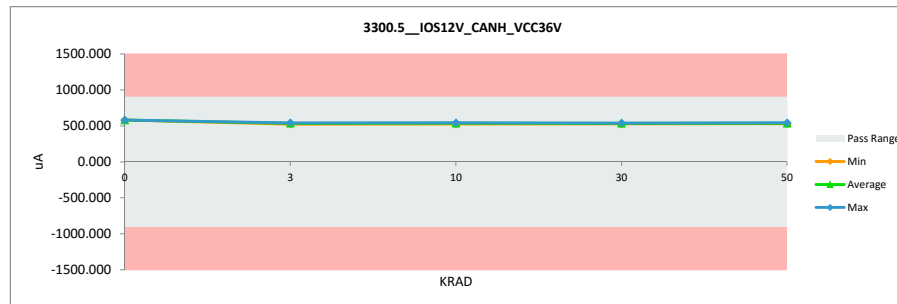
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	551.299	581.034	-29.735
3	1	542.516	539.727	2.789
3	2	546.408	535.920	10.488
3	3	543.856	542.648	1.208
3	6	558.956	524.519	34.437
3	11	544.781	535.793	8.988
3	UB14	551.127	534.787	16.340
3	UB16	554.433	532.014	22.419
3	UB18	552.057	541.987	10.070
3	UB19	557.653	528.236	29.417
3	UB22	557.166	539.596	17.570
10	23	543.856	530.472	13.384
10	24	550.689	527.592	23.097
10	25	555.941	533.704	22.237
10	28	541.582	540.194	1.388
10	30	551.226	542.213	9.013
10	UB33	552.176	538.627	13.549
10	UB35	551.398	536.412	14.986
10	UB36	549.718	535.501	14.217
10	UB39	542.082	543.202	-1.120
10	UB40	548.038	541.245	6.793
30	43	544.798	528.006	16.792
30	44	554.880	537.294	17.586
30	48	542.885	540.732	2.153
30	50	556.187	539.021	17.166
30	52	547.969	534.312	13.657
30	UB96	551.455	535.825	15.630
30	UB98	544.810	540.100	4.710
30	UB99	555.097	529.688	25.409
30	UB101	546.736	539.784	6.952
30	UB102	548.305	534.094	14.211
50	105	540.275	541.491	-1.216
50	108	555.875	535.583	20.292
50	107	545.793	530.607	15.186
50	111	546.379	535.066	11.313
50	113	547.121	532.445	14.676
50	114	547.412	530.127	17.285
50	115	552.340	536.642	15.698
50	119	553.085	535.403	17.682
50	118	556.248	539.169	17.079
50	121	541.893	536.986	4.907
50	124	547.248	541.729	5.519
50	125	542.856	539.448	3.408
50	128	548.780	537.655	11.125
50	130	552.147	539.189	12.958
50	131	554.536	543.481	11.055
50	133	556.117	535.719	20.398
50	134	552.360	534.586	17.774
50	135	551.139	534.545	16.594
50	137	546.576	543.005	3.571
50	298	538.657	543.189	-4.532
50	299	547.366	540.100	7.266
50	UB293	548.374	540.153	8.221
50	UB294	551.512	530.304	21.208
50	UB295	551.135	540.268	10.867
50	UB296	549.820	534.115	15.705
50	UB297	549.407	536.855	12.552
	Max	558.956	581.034	34.437
	Average	549.378	537.406	11.972
	Min	538.657	524.519	-29.735
	Std Dev	4.889	7.419	9.527



3300.5_IOS12V_CANH_VCC36V

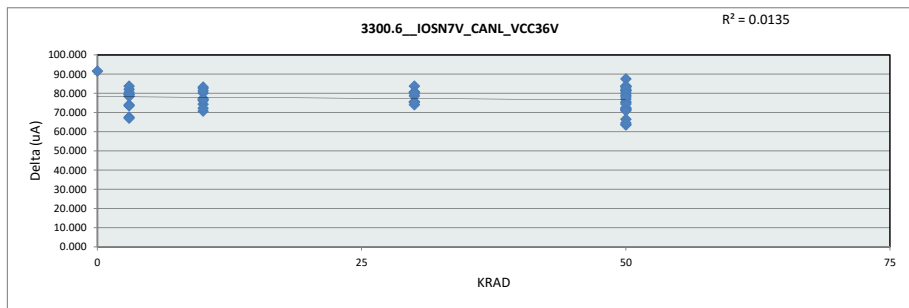
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	900 uA
Min Limit	-900 uA

KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	581.034	524.519	527.592	528.006	530.127
Average	581.034	535.523	536.916	535.886	537.225
Max	581.034	542.648	543.202	540.732	543.481
UL	900.000	900.000	900.000	900.000	900.000

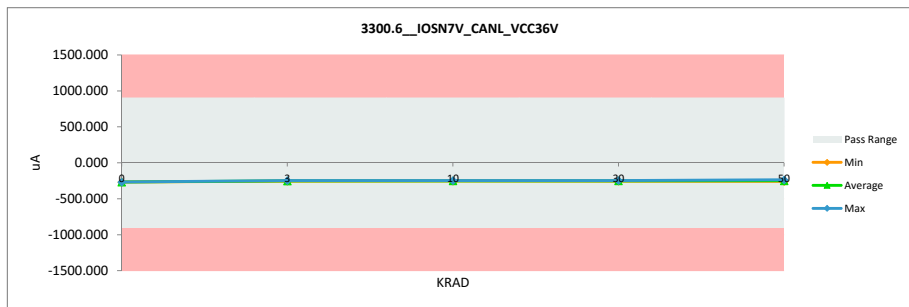


TID Report
TID_REPORT_HVD233_HKX_HDR

3300.6_IOSN7V_CANL_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	uA	uA		
Max Limit	900	900		
Min Limit	-900	-900		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-176.123	-267.732	91.609
3	1	-172.592	-254.674	82.082
3	2	-175.261	-254.674	79.413
3	3	-172.346	-256.070	83.724
3	6	-179.817	-247.405	67.588
3	11	-172.839	-253.319	80.480
3	UB14	-173.988	-253.278	79.290
3	UB16	-176.246	-250.239	73.993
3	UB18	-176.287	-254.674	78.387
3	UB19	-179.489	-246.543	67.054
3	UB22	-177.723	-251.224	73.501
10	23	-172.346	-246.666	74.320
10	24	-175.055	-245.804	70.749
10	25	-177.190	-249.418	72.228
10	28	-169.267	-251.922	82.655
10	30	-173.619	-253.811	80.192
10	UB33	-174.522	-251.881	77.359
10	UB35	-174.686	-250.896	76.210
10	UB36	-172.757	-249.459	76.702
10	UB39	-170.868	-254.099	83.231
10	UB40	-172.223	-253.524	81.301
30	43	-170.786	-246.338	75.552
30	44	-175.261	-250.732	75.471
30	48	-170.212	-253.935	83.723
30	50	-174.481	-255.167	80.686
30	52	-171.197	-251.840	80.643
30	UB96	-172.880	-251.553	78.673
30	UB98	-171.525	-252.046	80.521
30	UB99	-174.399	-248.473	74.074
30	UB101	-171.279	-251.183	79.904
30	UB102	-173.249	-248.596	75.347
50	105	-171.033	-258.534	87.501
50	108	-176.738	-256.645	79.907
50	107	-173.126	-256.768	83.642
50	111	-172.264	-256.070	83.806
50	113	-173.249	-256.768	83.519
50	114	-172.962	-254.427	81.465
50	115	-174.563	-257.959	83.396
50	119	-174.973	-256.316	81.343
50	118	-176.861	-258.370	81.509
50	121	-172.592	-251.471	78.879
50	124	-173.290	-255.413	82.123
50	125	-170.868	-250.978	80.110
50	128	-172.428	-249.418	76.990
50	130	-175.178	-250.732	75.554
50	131	-176.574	-251.676	75.102
50	133	-176.615	-248.391	71.776
50	134	-174.727	-246.748	72.021
50	135	-173.742	-246.214	72.472
50	137	-170.622	-245.024	74.402
50	298	-169.021	-247.159	78.138
50	299	-170.458	-241.780	71.322
50	UB293	-171.115	-242.108	70.993
50	UB294	-172.798	-236.564	63.766
50	UB295	-173.660	-240.137	66.477
50	UB296	-172.633	-236.236	63.603
50	UB297	-172.346	-236.934	64.588
	Max	-169.021	-236.236	91.609
	Average	-173.596	-250.807	77.212
	Min	-179.817	-267.732	63.603
	Std Dev	2.380	5.790	5.919



3300.6_IOSN7V_CANL_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	900	uA			
Min Limit	-900	uA			
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	-267.732	-256.070	-254.099	-255.167	-258.534
Average	-267.732	-252.210	-250.748	-250.986	-249.571
Max	-267.732	-246.543	-245.804	-246.338	-236.236
UL	900.000	900.000	900.000	900.000	900.000

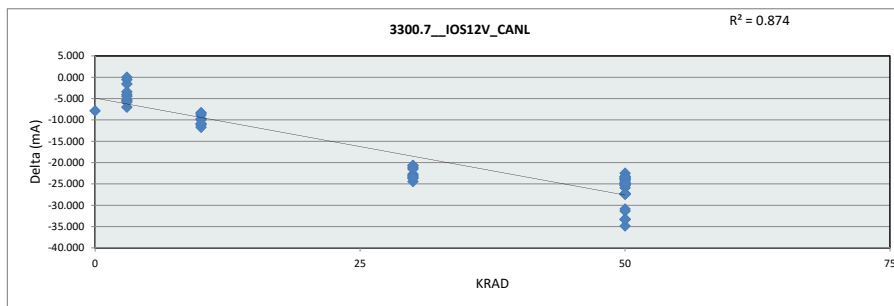


TID Report

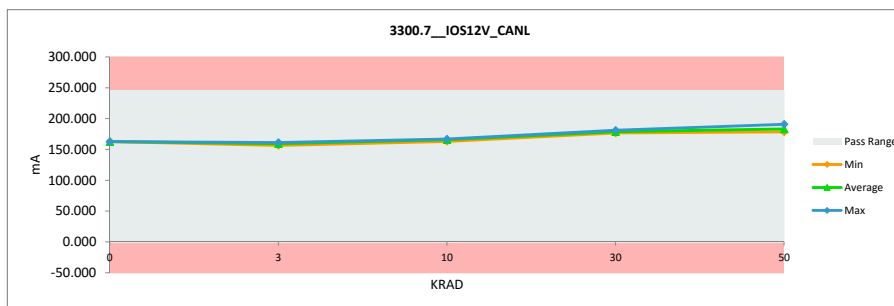
TID_REPORT_HVD233_HKX_HDR

3300.7_IOS12V_CANL		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	245	245
Min Limit	-0.9	-0.9

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	154.933	162.806	-7.873
3	1	154.458	159.971	-5.513
3	2	154.753	160.034	-5.281
3	3	154.301	161.301	-7.000
3	6	156.689	157.240	-0.551
3	11	155.503	159.572	-4.069
3	UB14	155.344	161.136	-5.792
3	UB16	156.000	157.587	-1.587
3	UB18	155.640	160.084	-4.444
3	UB19	156.546	156.526	0.020
3	UB22	156.651	160.068	-3.417
10	23	154.301	163.137	-8.836
10	24	155.259	165.066	-9.807
10	25	156.657	164.962	-8.305
10	28	155.107	166.039	-10.932
10	30	156.519	166.496	-9.977
10	UB33	155.994	165.758	-9.764
10	UB35	157.296	165.744	-8.448
10	UB36	155.698	166.850	-11.152
10	UB39	155.179	166.891	-11.712
10	UB40	156.078	166.936	-10.858
30	43	155.609	176.779	-21.170
30	44	157.149	177.847	-20.698
30	48	155.762	178.467	-22.705
30	50	157.309	178.006	-20.697
30	52	153.697	176.711	-23.014
30	UB96	157.255	178.780	-21.525
30	UB98	156.655	181.112	-24.457
30	UB99	156.732	180.399	-23.667
30	UB101	156.970	180.288	-23.318
30	UB102	155.854	179.465	-23.611
50	105	153.255	184.127	-30.872
50	108	157.454	180.785	-23.331
50	107	157.268	180.986	-23.718
50	111	156.047	178.554	-22.507
50	113	156.745	181.639	-24.894
50	114	155.545	180.718	-25.173
50	115	156.743	179.978	-23.235
50	119	157.104	183.015	-25.911
50	118	157.175	182.428	-25.253
50	121	154.691	181.934	-27.243
50	124	157.320	181.883	-24.563
50	125	154.508	181.816	-27.308
50	128	156.251	180.104	-23.853
50	130	156.942	181.758	-24.816
50	131	157.703	181.793	-24.090
50	133	157.371	182.666	-25.295
50	134	156.719	180.127	-23.408
50	135	157.151	181.002	-23.851
50	137	157.508	182.318	-24.810
50	298	155.146	182.456	-27.310
50	299	154.816	182.274	-27.458
50	UB293	157.164	190.447	-33.283
50	UB294	156.261	187.635	-31.374
50	UB295	155.820	190.676	-34.856
50	UB296	156.854	190.144	-33.290
50	UB297	157.480	190.847	-33.367
	Max	157.703	190.847	0.020
	Average	156.122	174.810	-18.688
	Min	153.255	156.526	-34.856
	Std Dev	1.084	10.087	9.777

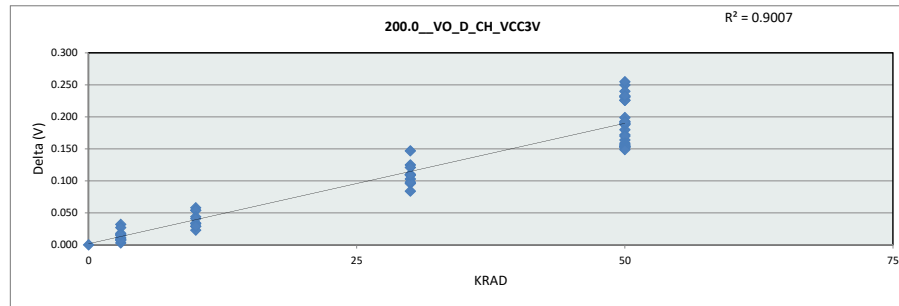


3300.7_IOS12V_CANL					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	245	mA			
Min Limit	-0.9	mA			
KRAD	0	3	10	30	50
LL	-0.900	-0.900	-0.900	-0.900	-0.900
Min	162.806	156.526	163.137	176.711	178.554
Average	162.806	159.352	165.788	178.785	183.158
Max	162.806	161.301	166.936	181.112	190.847
UL	245.000	245.000	245.000	245.000	245.000

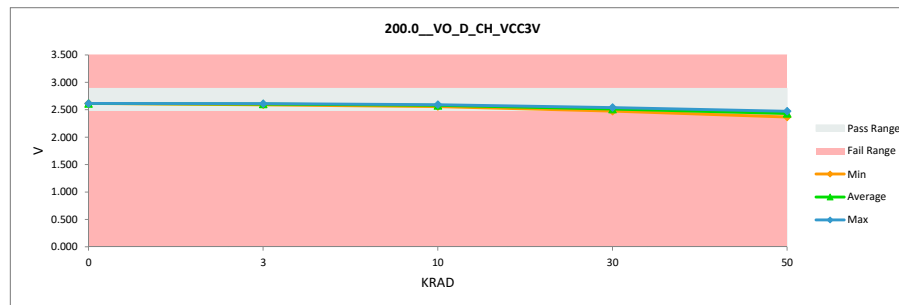


TID Report
TID_REPORT_HVD233_HKX_HDR

200.0_VO_D_CH_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.89	2.89		
Min Limit	2.47	2.47		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.614	2.614	0.000
3	1	2.611	2.602	0.009
3	2	2.615	2.604	0.011
3	3	2.612	2.609	0.003
3	6	2.622	2.590	0.032
3	11	2.617	2.602	0.015
3	UB14	2.615	2.607	0.008
3	UB16	2.620	2.602	0.018
3	UB18	2.618	2.611	0.007
3	UB19	2.622	2.595	0.027
3	UB22	2.622	2.606	0.016
10	23	2.612	2.558	0.054
10	24	2.619	2.561	0.058
10	25	2.621	2.567	0.054
10	28	2.615	2.581	0.034
10	30	2.623	2.579	0.044
10	UB33	2.619	2.586	0.033
10	UB35	2.624	2.583	0.041
10	UB36	2.619	2.590	0.029
10	UB39	2.615	2.592	0.023
10	UB40	2.618	2.589	0.029
30	43	2.621	2.474	0.147
30	44	2.624	2.514	0.110
30	48	2.616	2.520	0.096
30	50	2.626	2.523	0.103
30	52	2.617	2.492	0.125
30	UB96	2.621	2.500	0.121
30	UB98	2.624	2.540	0.084
30	UB99	2.627	2.517	0.110
30	UB101	2.625	2.527	0.098
30	UB102	2.622	2.513	0.109
50	105	2.607	2.452	0.155
50	108	2.625	2.435	0.190
50	107	2.624	2.374	0.250
50	111	2.623	2.391	0.232
50	113	2.622	2.442	0.180
50	114	2.621	2.395	0.226
50	115	2.626	2.400	0.226
50	119	2.621	2.422	0.199
50	118	2.626	2.438	0.188
50	121	2.619	2.430	0.189
50	124	2.623	2.459	0.164
50	125	2.617	2.424	0.193
50	128	2.621	2.429	0.192
50	130	2.627	2.455	0.172
50	131	2.624	2.454	0.170
50	133	2.625	2.394	0.231
50	134	2.627	2.387	0.240
50	135	2.623	2.368	0.255
50	137	2.620	2.461	0.159
50	298	2.614	2.460	0.154
50	299	2.617	2.460	0.157
50	UB293	2.623	2.469	0.154
50	UB294	2.625	2.392	0.233
50	UB295	2.619	2.466	0.153
50	UB296	2.624	2.472	0.152
50	UB297	2.622	2.473	0.149
	Max	2.627	2.614	0.255
	Average	2.620	2.504	0.116
	Min	2.607	2.368	0.000
	Std Dev	0.004	0.078	0.080



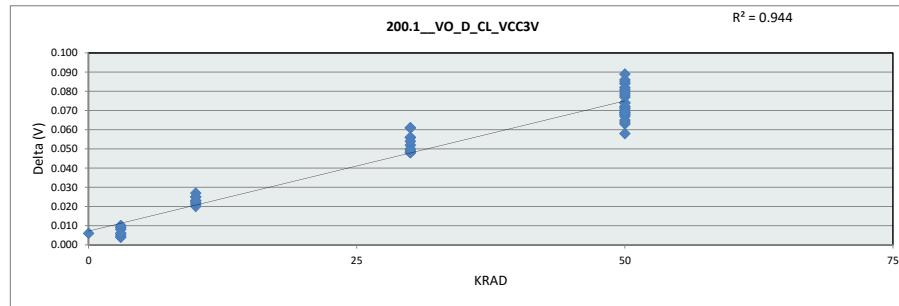
200.0_VO_D_CH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.89	V			
Min Limit	2.47	V			
KRAD	0	3	10	30	50
LL	2.470	2.470	2.470	2.470	2.470
Min	2.614	2.590	2.558	2.474	2.368
Average	2.614	2.603	2.579	2.512	2.431
Max	2.614	2.611	2.592	2.540	2.473
UL	2.890	2.890	2.890	2.890	2.890



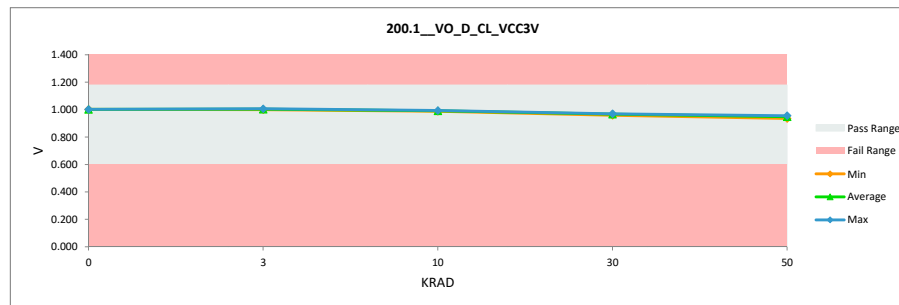
TID Report
TID_REPORT_HVD233_HKX_HDR

200.1_VO_D_CL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	1.18	1.18
Min Limit	0.6	0.6

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.008	1.002	0.006
3	1	1.008	1.004	0.004
3	2	1.009	1.005	0.004
3	3	1.011	1.001	0.010
3	6	1.010	1.001	0.009
3	11	1.009	1.000	0.009
3	UB14	1.010	1.002	0.008
3	UB16	1.012	1.007	0.005
3	UB18	1.014	1.004	0.010
3	UB19	1.011	1.005	0.006
3	UB22	1.010	1.004	0.006
10	23	1.011	0.988	0.023
10	24	1.015	0.988	0.027
10	25	1.012	0.991	0.021
10	28	1.012	0.991	0.021
10	30	1.015	0.990	0.025
10	UB33	1.017	0.994	0.023
10	UB35	1.014	0.994	0.020
10	UB36	1.015	0.993	0.022
10	UB39	1.017	0.992	0.025
10	UB40	1.015	0.992	0.023
30	43	1.020	0.959	0.061
30	44	1.018	0.970	0.048
30	48	1.019	0.970	0.049
30	50	1.022	0.970	0.052
30	52	1.023	0.962	0.061
30	UB96	1.019	0.963	0.056
30	UB98	1.018	0.970	0.048
30	UB99	1.022	0.966	0.056
30	UB101	1.019	0.969	0.050
30	UB102	1.021	0.967	0.054
50	105	1.024	0.953	0.071
50	108	1.022	0.952	0.070
50	107	1.025	0.936	0.089
50	111	1.027	0.942	0.085
50	113	1.026	0.952	0.074
50	114	1.028	0.942	0.086
50	115	1.027	0.943	0.084
50	119	1.029	0.947	0.082
50	118	1.026	0.952	0.074
50	121	1.020	0.948	0.072
50	124	1.022	0.955	0.067
50	125	1.025	0.945	0.080
50	128	1.023	0.951	0.072
50	130	1.025	0.955	0.070
50	131	1.021	0.953	0.068
50	133	1.021	0.944	0.077
50	134	1.023	0.942	0.081
50	135	1.023	0.945	0.078
50	137	1.013	0.955	0.058
50	298	1.017	0.954	0.063
50	299	1.020	0.956	0.064
50	UB293	1.021	0.952	0.069
50	UB294	1.016	0.937	0.079
50	UB295	1.018	0.950	0.068
50	UB296	1.016	0.951	0.065
50	UB297	1.020	0.951	0.069
	Max	1.029	1.007	0.089
	Average	1.018	0.970	0.048
	Min	1.008	0.936	0.044
	Std Dev	0.006	0.023	0.028



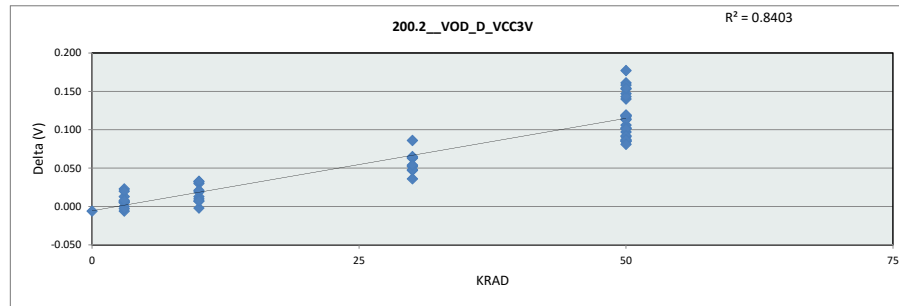
200.1_VO_D_CL_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	1.18	V			
Min Limit	0.6	V			
KRAD	0	3	10	30	50
LL	0.600	0.600	0.600	0.600	0.600
Min	1.002	1.000	0.988	0.959	0.936
Average	1.002	1.003	0.991	0.967	0.949
Max	1.002	1.007	0.994	0.970	0.956
UL	1.180	1.180	1.180	1.180	1.180



TID Report
TID_REPORT_HVD233_HKX_HDR

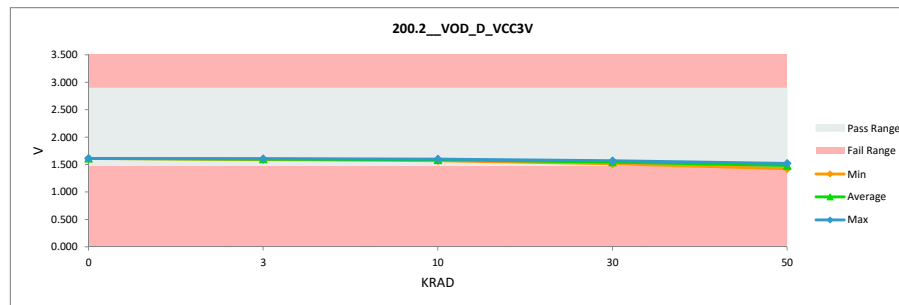
200.2_VOD_D_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.89	2.89
Min Limit	1.475	1.475

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.606	1.612	-0.006
3	1	1.603	1.598	0.005
3	2	1.605	1.599	0.006
3	3	1.602	1.608	-0.006
3	6	1.612	1.589	0.023
3	11	1.608	1.602	0.006
3	UB14	1.605	1.605	0.000
3	UB16	1.608	1.595	0.013
3	UB18	1.604	1.607	-0.003
3	UB19	1.611	1.591	0.020
3	UB22	1.611	1.603	0.008
10	23	1.602	1.570	0.032
10	24	1.604	1.574	0.030
10	25	1.609	1.576	0.033
10	28	1.603	1.590	0.013
10	30	1.608	1.589	0.019
10	UB33	1.602	1.592	0.010
10	UB35	1.610	1.589	0.021
10	UB36	1.604	1.597	0.007
10	UB39	1.598	1.600	-0.002
10	UB40	1.604	1.597	0.007
30	43	1.600	1.514	0.086
30	44	1.607	1.544	0.063
30	48	1.597	1.550	0.047
30	50	1.604	1.552	0.052
30	52	1.594	1.529	0.065
30	UB96	1.601	1.537	0.064
30	UB98	1.606	1.570	0.036
30	UB99	1.604	1.551	0.053
30	UB101	1.606	1.558	0.048
30	UB102	1.600	1.546	0.054
50	105	1.583	1.498	0.085
50	108	1.603	1.484	0.119
50	107	1.599	1.438	0.161
50	111	1.596	1.449	0.147
50	113	1.596	1.490	0.106
50	114	1.593	1.453	0.140
50	115	1.600	1.457	0.143
50	119	1.592	1.474	0.118
50	118	1.600	1.486	0.114
50	121	1.599	1.482	0.117
50	124	1.601	1.504	0.097
50	125	1.593	1.480	0.113
50	128	1.598	1.479	0.119
50	130	1.602	1.500	0.102
50	131	1.603	1.501	0.102
50	133	1.604	1.451	0.153
50	134	1.603	1.445	0.158
50	135	1.600	1.423	0.177
50	137	1.607	1.506	0.101
50	298	1.597	1.506	0.091
50	299	1.597	1.505	0.092
50	UB293	1.602	1.517	0.085
50	UB294	1.609	1.455	0.154
50	UB295	1.602	1.516	0.086
50	UB296	1.608	1.521	0.087
50	UB297	1.602	1.521	0.081
	Max	1.612	1.612	0.177
	Average	1.602	1.535	0.068
	Min	1.583	1.423	-0.006
	Std Dev	0.005	0.055	0.053



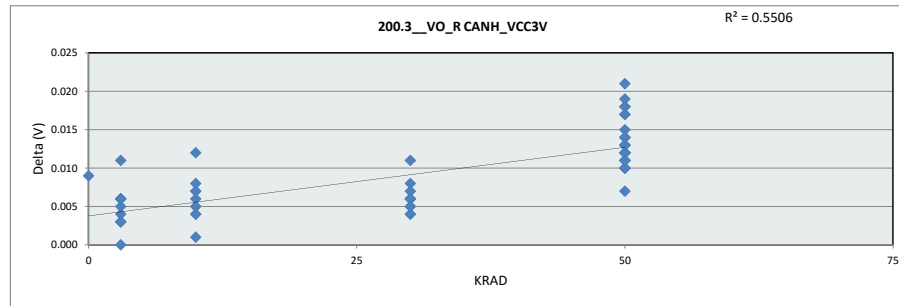
200.2_VOD_D_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	2.89	V
Min Limit	1.475	V

	KRAD	0	3	10	30	50
LL		1.475	1.475	1.475	1.475	1.475
Min		1.612	1.589	1.570	1.514	1.423
Average		1.612	1.600	1.587	1.545	1.482
Max		1.612	1.608	1.600	1.570	1.521
UL		2.890	2.890	2.890	2.890	2.890

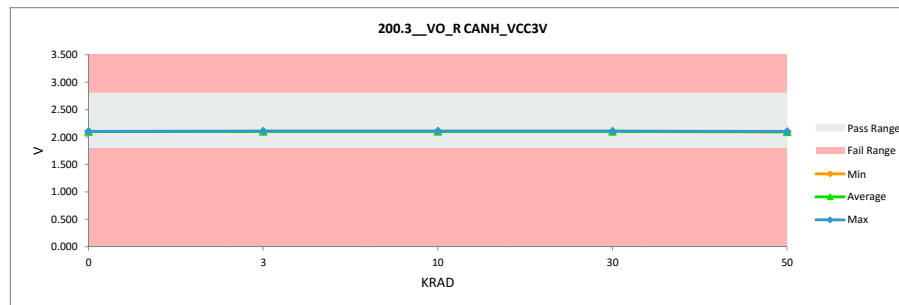


TID Report
TID_REPORT_HVD233_HKX_HDR

200.3_VO_R_CANH_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.8	1.8		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.111	2.102	0.009
3	1	2.109	2.106	0.003
3	2	2.107	2.104	0.003
3	3	2.111	2.105	0.006
3	6	2.108	2.108	0.000
3	11	2.114	2.103	0.011
3	UB14	2.110	2.104	0.006
3	UB16	2.110	2.104	0.006
3	UB18	2.107	2.104	0.003
3	UB19	2.110	2.105	0.005
3	UB22	2.108	2.104	0.004
10	23	2.111	2.105	0.006
10	24	2.110	2.106	0.004
10	25	2.108	2.107	0.001
10	28	2.111	2.106	0.005
10	30	2.112	2.107	0.005
10	UB33	2.110	2.103	0.007
10	UB35	2.114	2.106	0.008
10	UB36	2.111	2.104	0.007
10	UB39	2.108	2.104	0.004
10	UB40	2.116	2.104	0.012
30	43	2.108	2.104	0.004
30	44	2.112	2.101	0.011
30	48	2.113	2.105	0.008
30	50	2.111	2.104	0.007
30	52	2.111	2.105	0.006
30	UB96	2.113	2.107	0.006
30	UB98	2.109	2.104	0.005
30	UB99	2.111	2.105	0.006
30	UB101	2.109	2.105	0.004
30	UB102	2.110	2.105	0.005
50	105	2.110	2.099	0.011
50	108	2.110	2.098	0.012
50	107	2.110	2.100	0.010
50	111	2.109	2.097	0.012
50	113	2.114	2.097	0.017
50	114	2.112	2.100	0.012
50	115	2.112	2.099	0.013
50	119	2.112	2.099	0.013
50	118	2.113	2.099	0.014
50	121	2.112	2.099	0.013
50	124	2.105	2.098	0.007
50	125	2.110	2.100	0.010
50	128	2.111	2.100	0.011
50	130	2.111	2.099	0.012
50	131	2.113	2.098	0.015
50	133	2.113	2.096	0.017
50	134	2.112	2.098	0.014
50	135	2.113	2.099	0.014
50	137	2.111	2.100	0.011
50	298	2.112	2.100	0.012
50	299	2.112	2.102	0.010
50	UB293	2.112	2.093	0.019
50	UB294	2.111	2.090	0.021
50	UB295	2.111	2.093	0.018
50	UB296	2.109	2.098	0.011
50	UB297	2.112	2.094	0.018
	Max	2.116	2.108	0.021
	Average	2.111	2.102	0.009
	Min	2.105	2.090	0.000
	Std Dev	0.002	0.004	0.005

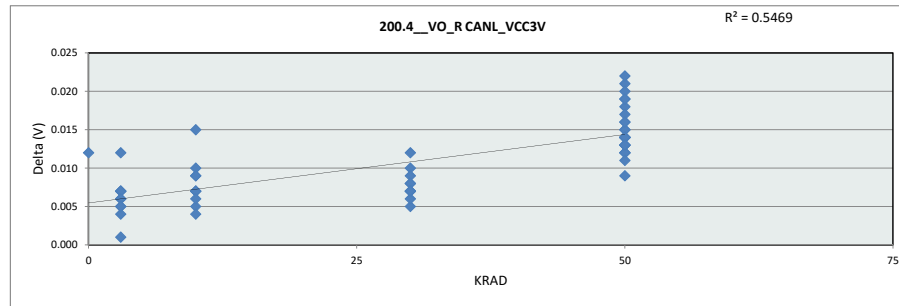


200.3_VO_R_CANH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.102	2.103	2.103	2.101	2.090
Average	2.102	2.105	2.105	2.105	2.098
Max	2.102	2.108	2.107	2.107	2.102
UL	2.800	2.800	2.800	2.800	2.800

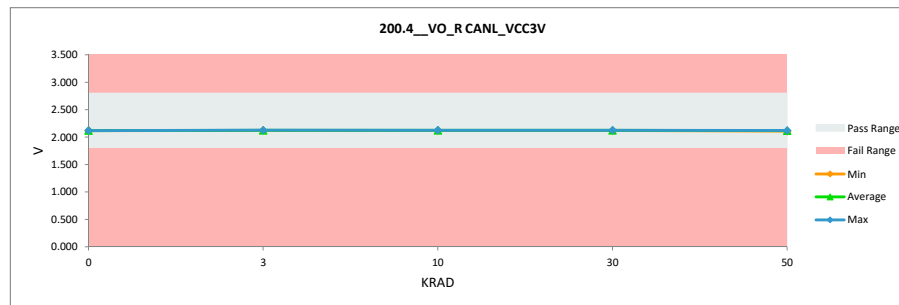


TID Report
TID_REPORT_HVD233_HKX_HDR

200.4_VO_R_CANL_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.8	1.8		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.131	2.119	0.012
3	1	2.129	2.124	0.005
3	2	2.128	2.122	0.006
3	3	2.131	2.124	0.007
3	6	2.128	2.127	0.001
3	11	2.134	2.122	0.012
3	UB14	2.130	2.123	0.007
3	UB16	2.130	2.123	0.007
3	UB18	2.127	2.123	0.004
3	UB19	2.130	2.124	0.006
3	UB22	2.128	2.123	0.005
10	23	2.131	2.124	0.007
10	24	2.130	2.125	0.005
10	25	2.129	2.125	0.004
10	28	2.132	2.125	0.007
10	30	2.132	2.125	0.007
10	UB33	2.131	2.122	0.009
10	UB35	2.134	2.124	0.010
10	UB36	2.132	2.123	0.009
10	UB39	2.128	2.122	0.006
10	UB40	2.137	2.122	0.015
30	43	2.128	2.123	0.005
30	44	2.132	2.120	0.012
30	48	2.133	2.123	0.010
30	50	2.131	2.122	0.009
30	52	2.132	2.124	0.008
30	UB96	2.133	2.125	0.008
30	UB98	2.129	2.122	0.007
30	UB99	2.131	2.124	0.007
30	UB101	2.129	2.123	0.006
30	UB102	2.131	2.124	0.007
50	105	2.131	2.117	0.014
50	108	2.130	2.117	0.013
50	107	2.131	2.119	0.012
50	111	2.130	2.116	0.014
50	113	2.134	2.116	0.018
50	114	2.132	2.119	0.013
50	115	2.132	2.118	0.014
50	119	2.132	2.117	0.015
50	118	2.133	2.117	0.016
50	121	2.132	2.117	0.015
50	124	2.126	2.117	0.009
50	125	2.131	2.119	0.012
50	128	2.131	2.119	0.012
50	130	2.131	2.117	0.014
50	131	2.133	2.116	0.017
50	133	2.134	2.115	0.019
50	134	2.132	2.118	0.014
50	135	2.133	2.117	0.016
50	137	2.132	2.119	0.013
50	298	2.132	2.118	0.014
50	299	2.132	2.121	0.011
50	UB293	2.132	2.111	0.021
50	UB294	2.131	2.109	0.022
50	UB295	2.131	2.111	0.020
50	UB296	2.130	2.117	0.013
50	UB297	2.132	2.113	0.019
	Max	2.137	2.127	0.022
	Average	2.131	2.120	0.011
	Min	2.126	2.109	0.001
	Std Dev	0.002	0.004	0.005



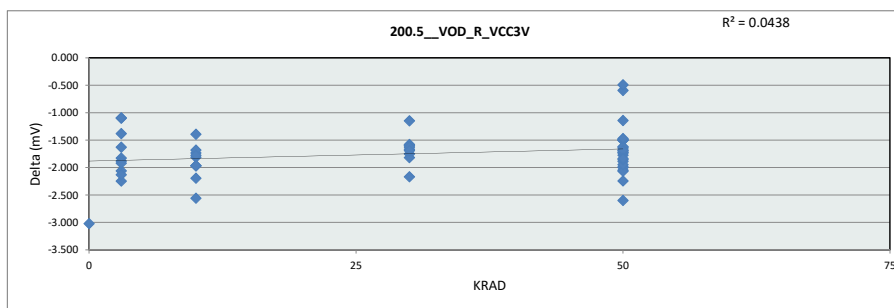
200.4_VO_R_CANL_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.119	2.122	2.122	2.120	2.109
Average	2.119	2.124	2.124	2.123	2.117
Max	2.119	2.127	2.125	2.125	2.121
UL	2.800	2.800	2.800	2.800	2.800



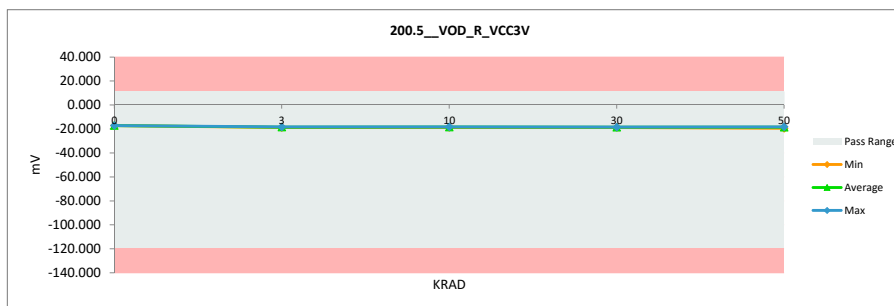
TID Report

TID_REPORT_HVD233_HKX_HDR

200.5_VOD_R_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mV	mV		
Max Limit	10.92	10.92		
Min Limit	-119	-119		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-20.181	-17.160	-3.021
3	1	-20.556	-18.310	-2.246
3	2	-20.376	-18.550	-1.826
3	3	-20.356	-18.296	-2.060
3	6	-19.949	-18.853	-1.096
3	11	-20.429	-18.548	-1.881
3	UB14	-20.372	-18.453	-1.919
3	UB16	-19.964	-18.583	-1.381
3	UB18	-20.422	-18.292	-2.130
3	UB19	-19.900	-18.805	-1.095
3	UB22	-20.000	-18.371	-1.629
10	23	-20.356	-18.622	-1.734
10	24	-20.162	-18.771	-1.391
10	25	-20.198	-18.517	-1.681
10	28	-20.571	-18.376	-2.195
10	30	-20.051	-18.240	-1.811
10	UB33	-20.384	-18.417	-1.967
10	UB35	-20.212	-18.436	-1.776
10	UB36	-20.315	-18.350	-1.965
10	UB39	-20.802	-18.243	-2.559
10	UB40	-20.317	-18.351	-1.966
30	43	-20.458	-18.708	-1.750
30	44	-20.137	-18.546	-1.591
30	48	-20.585	-18.419	-2.166
30	50	-20.052	-18.475	-1.577
30	52	-20.242	-18.643	-1.599
30	UB96	-20.181	-18.515	-1.666
30	UB98	-20.225	-18.600	-1.625
30	UB99	-19.940	-18.793	-1.147
30	UB101	-20.309	-18.493	-1.816
30	UB102	-20.388	-18.699	-1.689
50	105	-20.864	-18.266	-2.598
50	108	-20.096	-18.597	-1.499
50	107	-20.345	-18.861	-1.484
50	111	-20.426	-18.653	-1.773
50	113	-20.168	-18.665	-1.503
50	114	-20.391	-18.731	-1.660
50	115	-20.135	-18.506	-1.629
50	119	-20.081	-18.584	-1.497
50	118	-19.953	-18.333	-1.620
50	121	-20.426	-18.540	-1.886
50	124	-20.432	-18.383	-2.049
50	125	-20.420	-18.424	-1.996
50	128	-20.383	-18.393	-1.990
50	130	-19.991	-18.259	-1.732
50	131	-20.028	-18.303	-1.725
50	133	-20.012	-19.419	-0.593
50	134	-19.981	-19.491	-0.490
50	135	-20.106	-18.636	-1.470
50	137	-20.339	-18.275	-2.064
50	298	-20.536	-18.293	-2.243
50	299	-20.364	-18.417	-1.947
50	UB293	-20.439	-18.584	-1.855
50	UB294	-20.017	-18.875	-1.142
50	UB295	-20.209	-18.514	-1.695
50	UB296	-20.317	-18.628	-1.689
50	UB297	-20.426	-18.590	-1.836
	Max	-19.900	-17.160	-0.490
	Average	-20.268	-18.520	-1.748
	Min	-20.864	-19.491	-3.021
	Std Dev	0.214	0.305	0.422

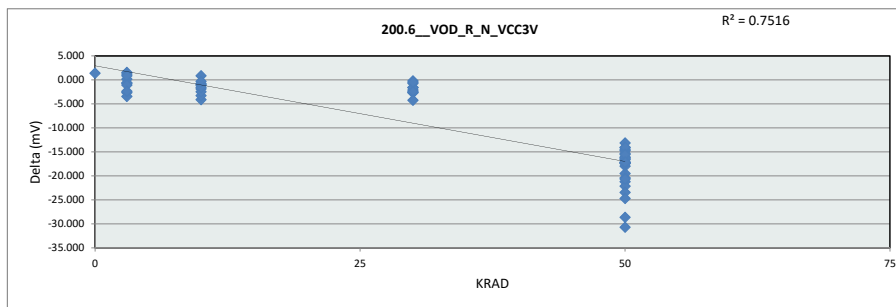


200.5_VOD_R_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	10.92	mV			
Min Limit	-119	mV			
KRAD	0	3	10	30	50
LL	-119.000	-119.000	-119.000	-119.000	-119.000
Min	-17.160	-18.853	-18.771	-18.793	-19.491
Average	-17.160	-18.506	-18.432	-18.589	-18.585
Max	-17.160	-18.292	-18.240	-18.419	-18.259
UL	10.920	10.920	10.920	10.920	10.920

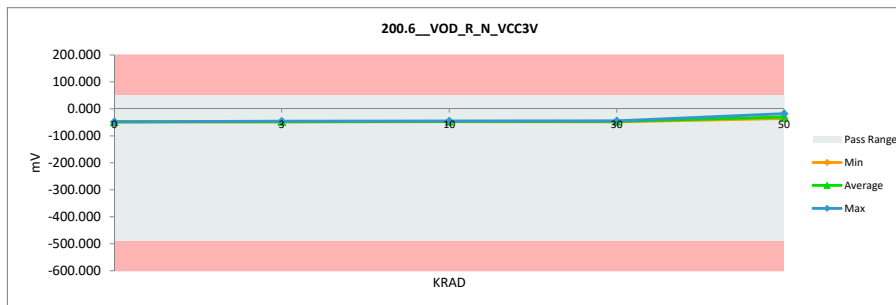


TID Report
TID_REPORT_HVD233_HKX_HDR

200.6_VOD_R_N_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mV	mV		
Max Limit	49	49		
Min Limit	-490	-490		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-46.860	-48.246	1.386
3	1	-48.244	-48.418	0.174
3	2	-49.475	-46.843	-2.632
3	3	-47.498	-48.741	1.243
3	6	-48.902	-45.469	-3.433
3	11	-48.631	-47.933	-0.698
3	UB14	-46.542	-48.102	1.560
3	UB16	-48.639	-48.030	-0.609
3	UB18	-46.571	-47.436	0.865
3	UB19	-48.302	-47.231	-1.071
3	UB22	-50.156	-47.786	-2.370
10	23	-47.498	-46.329	-1.169
10	24	-45.107	-45.978	0.871
10	25	-49.517	-45.404	-4.113
10	28	-47.709	-46.923	-0.786
10	30	-48.250	-44.984	-3.266
10	UB33	-46.954	-45.085	-1.869
10	UB35	-48.465	-45.979	-2.486
10	UB36	-47.714	-46.773	-0.941
10	UB39	-48.795	-47.231	-1.564
10	UB40	-46.740	-46.451	-0.289
30	43	-48.636	-46.535	-2.101
30	44	-48.877	-48.168	-0.709
30	48	-47.024	-46.833	-0.191
30	50	-48.107	-46.544	-1.563
30	52	-48.378	-46.756	-1.622
30	UB96	-47.416	-44.763	-2.653
30	UB98	-49.033	-46.396	-2.637
30	UB99	-48.666	-46.274	-2.392
30	UB101	-48.990	-44.744	-4.246
30	UB102	-48.528	-48.064	-0.464
50	105	-47.612	-31.159	-16.453
50	108	-49.192	-35.049	-14.143
50	107	-48.699	-32.111	-16.588
50	111	-48.522	-29.026	-19.496
50	113	-48.163	-35.018	-13.145
50	114	-50.452	-35.704	-14.748
50	115	-47.483	-29.510	-17.973
50	119	-49.899	-28.696	-21.203
50	118	-46.617	-26.227	-20.390
50	121	-48.738	-31.333	-17.405
50	124	-50.226	-32.866	-17.360
50	125	-49.548	-33.493	-16.055
50	128	-48.534	-32.333	-16.201
50	130	-48.535	-33.220	-15.315
50	131	-48.809	-31.596	-17.213
50	133	-48.356	-26.227	-22.129
50	134	-48.574	-34.043	-14.531
50	135	-46.466	-32.439	-14.027
50	137	-48.761	-33.216	-15.545
50	298	-48.024	-30.887	-17.137
50	299	-48.741	-31.564	-17.177
50	UB293	-48.261	-24.841	-23.420
50	UB294	-48.618	-17.920	-30.698
50	UB295	-49.191	-20.550	-28.641
50	UB296	-49.010	-28.359	-20.651
50	UB297	-49.079	-24.391	-24.688
	Max	-45.107	-17.920	1.560
	Average	-48.322	-39.162	-9.160
	Min	-50.452	-48.741	-30.698
	Std Dev	1.033	8.949	9.236

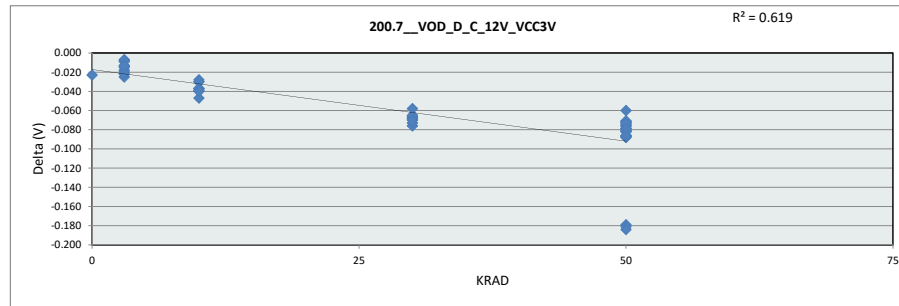


200.6_VOD_R_N_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	49	mV			
Min Limit	-490	mV			
KRAD	0	3	10	30	50
LL	-490.000	-490.000	-490.000	-490.000	-490.000
Min	-48.246	-48.741	-47.231	-48.168	-35.704
Average	-48.246	-47.599	-46.114	-46.508	-30.068
Max	-48.246	-45.469	-44.984	-44.744	-17.920
UL	49.000	49.000	49.000	49.000	49.000

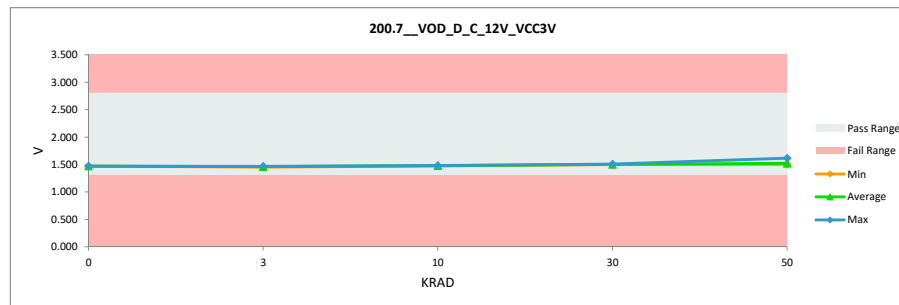


TID Report
TID_REPORT_HVD233_HKX_HDR

200.7_VOD_D_C_12V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.3	1.3		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.449	1.472	-0.023
3	1	1.448	1.462	-0.014
3	2	1.447	1.462	-0.015
3	3	1.444	1.469	-0.025
3	6	1.450	1.459	-0.009
3	11	1.449	1.467	-0.018
3	UB14	1.446	1.466	-0.020
3	UB16	1.446	1.454	-0.008
3	UB18	1.443	1.465	-0.022
3	UB19	1.449	1.456	-0.007
3	UB22	1.450	1.463	-0.013
10	23	1.444	1.474	-0.030
10	24	1.441	1.478	-0.037
10	25	1.448	1.476	-0.028
10	28	1.444	1.481	-0.037
10	30	1.444	1.481	-0.037
10	UB33	1.439	1.478	-0.039
10	UB35	1.447	1.477	-0.030
10	UB36	1.442	1.481	-0.039
10	UB39	1.435	1.482	-0.047
10	UB40	1.441	1.481	-0.040
30	43	1.434	1.501	-0.067
30	44	1.441	1.499	-0.058
30	48	1.434	1.502	-0.068
30	50	1.435	1.501	-0.066
30	52	1.426	1.502	-0.076
30	UB96	1.436	1.505	-0.069
30	UB98	1.440	1.508	-0.068
30	UB99	1.433	1.506	-0.073
30	UB101	1.440	1.505	-0.065
30	UB102	1.433	1.503	-0.070
50	105	1.422	1.510	-0.088
50	108	1.434	1.505	-0.071
50	107	1.428	1.509	-0.081
50	111	1.424	1.505	-0.081
50	113	1.425	1.507	-0.082
50	114	1.421	1.507	-0.086
50	115	1.426	1.505	-0.079
50	119	1.422	1.509	-0.087
50	118	1.427	1.506	-0.079
50	121	1.433	1.509	-0.076
50	124	1.433	1.508	-0.075
50	125	1.425	1.512	-0.087
50	128	1.431	1.504	-0.073
50	130	1.430	1.507	-0.077
50	131	1.436	1.508	-0.072
50	133	1.435	1.614	-0.179
50	134	1.432	1.613	-0.181
50	135	1.432	1.616	-0.184
50	137	1.448	1.508	-0.060
50	298	1.438	1.509	-0.071
50	299	1.432	1.507	-0.075
50	UB293	1.434	1.521	-0.087
50	UB294	1.443	1.516	-0.073
50	UB295	1.439	1.521	-0.082
50	UB296	1.443	1.522	-0.079
50	UB297	1.436	1.522	-0.086
	Max	1.450	1.616	-0.007
	Average	1.437	1.500	-0.063
	Min	1.421	1.454	-0.184
	Std Dev	0.008	0.033	0.038



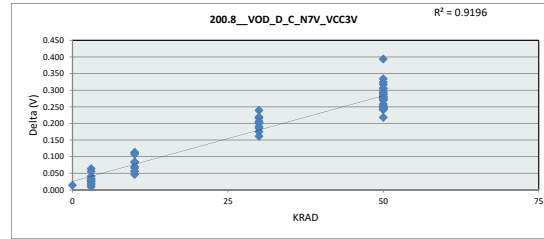
200.7_VOD_D_C_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.3	V			
KRAD	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	1.472	1.454	1.474	1.499	1.504
Average	1.472	1.462	1.479	1.503	1.522
Max	1.472	1.469	1.482	1.508	1.616
UL	2.800	2.800	2.800	2.800	2.800



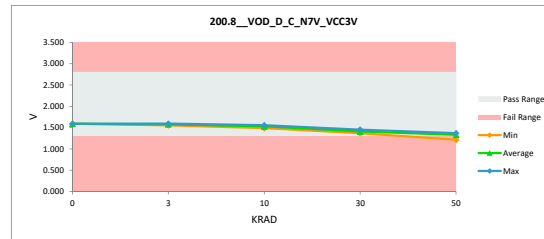
TID Report
HVD233

200.8_VOD_D_C_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.3	1.3

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.606	1.592	0.014
3	1	1.599	1.574	0.025
3	2	1.606	1.579	0.027
3	3	1.600	1.591	0.009
3	6	1.618	1.554	0.064
3	11	1.610	1.578	0.032
3	UB14	1.606	1.587	0.019
3	UB16	1.615	1.574	0.041
3	UB18	1.609	1.594	0.015
3	UB19	1.617	1.562	0.055
3	UB22	1.617	1.584	0.033
10	23	1.600	1.489	0.111
10	24	1.610	1.497	0.113
10	25	1.614	1.507	0.107
10	28	1.604	1.535	0.069
10	30	1.616	1.532	0.084
10	UB33	1.609	1.543	0.066
10	UB35	1.619	1.537	0.082
10	UB36	1.608	1.553	0.055
10	UB39	1.602	1.556	0.046
10	UB40	1.607	1.551	0.056
30	43	1.609	1.370	0.239
30	44	1.617	1.417	0.200
30	48	1.601	1.426	0.175
30	50	1.618	1.428	0.190
30	52	1.600	1.384	0.216
30	UB96	1.608	1.389	0.219
30	UB98	1.615	1.454	0.161
30	UB99	1.619	1.413	0.206
30	UB101	1.617	1.431	0.186
30	UB102	1.611	1.408	0.203
50	105	1.583	1.365	0.218
50	108	1.617	1.319	0.298
50	107	1.613	1.337	0.276
50	111	1.610	1.216	0.394
50	113	1.609	1.321	0.288
50	114	1.607	1.290	0.317
50	115	1.617	1.293	0.324
50	119	1.605	1.299	0.306
50	118	1.617	1.359	0.258
50	121	1.606	1.301	0.305
50	124	1.613	1.367	0.246
50	125	1.600	1.266	0.334
50	128	1.609	1.357	0.252
50	130	1.618	1.325	0.293
50	131	1.615	1.366	0.249
50	133	1.618	1.346	0.272
50	134	1.618	1.341	0.277
50	135	1.612	1.333	0.279
50	137	1.611	1.370	0.241
50	298	1.597	1.328	0.269
50	299	1.602	1.320	0.282
50	UB293	1.613	1.367	0.246
50	UB294	1.618	1.330	0.288
50	UB295	1.608	1.365	0.243
50	UB296	1.618	1.367	0.251
50	UB297	1.613	1.367	0.246
50	Max	1.619	1.594	0.394
50	Average	1.610	1.428	0.182
50	Min	1.583	1.216	0.009
50	Std Dev	0.007	0.108	0.108



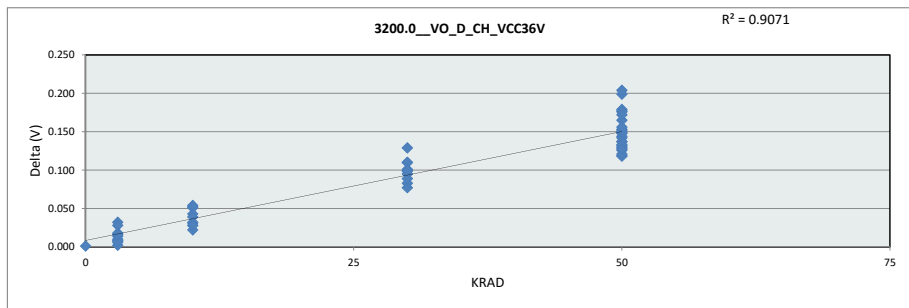
200.8_VOD_D_C_N7V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.3	V			
KRAD	0	3	10	30	50
LI	1.300	1.300	1.300	1.300	1.300
Min	1.592	1.554	1.489	1.370	1.216
Average	1.592	1.578	1.530	1.412	1.331
Max	1.592	1.594	1.556	1.454	1.370
UL	2.800	2.800	2.800	2.800	2.800



TID Report
TID_REPORT_HVD233_HKX_HDR

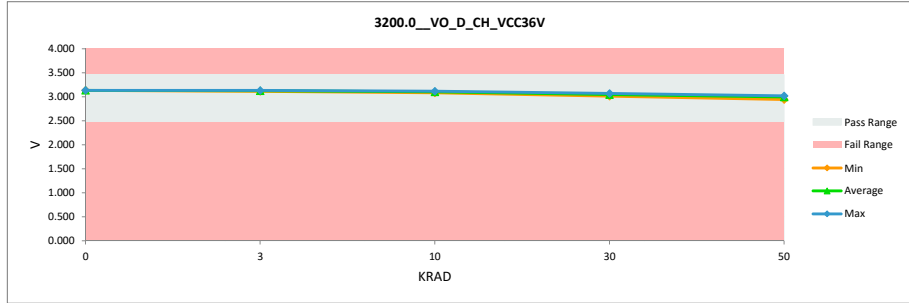
3200.0_VO_D_CH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3.46	3.46
Min Limit	2.47	2.47

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.136	3.135	0.001
3	1	3.133	3.125	0.008
3	2	3.137	3.127	0.010
3	3	3.134	3.132	0.002
3	6	3.145	3.113	0.032
3	11	3.139	3.125	0.014
3	UB14	3.138	3.130	0.008
3	UB16	3.143	3.125	0.018
3	UB18	3.140	3.134	0.006
3	UB19	3.145	3.117	0.028
3	UB22	3.145	3.129	0.016
10	23	3.134	3.083	0.051
10	24	3.141	3.087	0.054
10	25	3.144	3.092	0.052
10	28	3.137	3.106	0.031
10	30	3.146	3.103	0.043
10	UB33	3.142	3.110	0.032
10	UB35	3.147	3.108	0.039
10	UB36	3.142	3.114	0.028
10	UB39	3.138	3.116	0.022
10	UB40	3.141	3.113	0.028
30	43	3.143	3.014	0.129
30	44	3.148	3.049	0.099
30	48	3.138	3.055	0.083
30	50	3.150	3.055	0.095
30	52	3.140	3.030	0.110
30	UB96	3.144	3.034	0.110
30	UB98	3.147	3.070	0.077
30	UB99	3.150	3.049	0.101
30	UB101	3.148	3.059	0.089
30	UB102	3.145	3.046	0.099
50	105	3.128	3.009	0.119
50	108	3.149	2.999	0.150
50	107	3.148	2.949	0.199
50	111	3.146	2.967	0.179
50	113	3.146	3.004	0.142
50	114	3.145	2.969	0.176
50	115	3.150	2.973	0.177
50	119	3.145	2.992	0.153
50	118	3.150	3.002	0.148
50	121	3.141	2.997	0.144
50	124	3.147	3.015	0.132
50	125	3.140	2.992	0.148
50	128	3.144	2.992	0.152
50	130	3.151	3.014	0.137
50	131	3.148	3.011	0.137
50	133	3.150	2.985	0.165
50	134	3.150	2.978	0.172
50	135	3.146	2.990	0.156
50	137	3.143	3.017	0.126
50	298	3.136	3.018	0.118
50	299	3.139	3.018	0.121
50	UB293	3.146	3.016	0.130
50	UB294	3.147	2.943	0.204
50	UB295	3.142	3.013	0.129
50	UB296	3.148	3.015	0.133
50	UB297	3.146	3.019	0.127
	Max	3.151	3.135	0.204
	Average	3.143	3.049	0.095
	Min	3.128	2.943	0.001
	Std Dev	0.005	0.057	0.060



3200.0_VO_D_CH_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	3.46	V
Min Limit	2.47	V

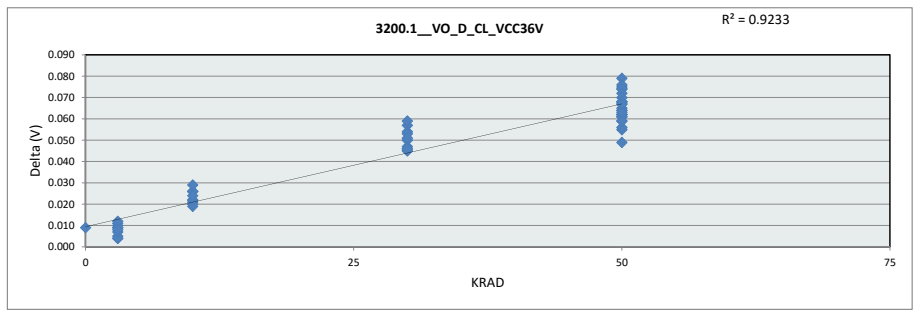
	KRAD	0	3	10	30	50
LL		2.470	2.470	2.470	2.470	2.470
Min		3.135	3.113	3.083	3.014	2.943
Average		3.135	3.126	3.103	3.046	2.996
Max		3.135	3.134	3.116	3.070	3.019
UL		3.460	3.460	3.460	3.460	3.460



TID Report
TID_REPORT_HVD233_HKX_HDR

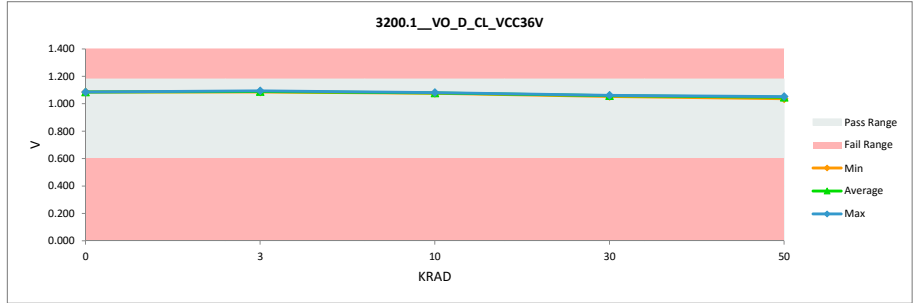
3200.1_VO_D_CL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	1.18	1.18
Min Limit	0.6	0.6

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.094	1.085	0.009
3	1	1.094	1.090	0.004
3	2	1.096	1.091	0.005
3	3	1.097	1.086	0.011
3	6	1.096	1.087	0.009
3	11	1.095	1.085	0.010
3	UB14	1.097	1.088	0.009
3	UB16	1.098	1.094	0.004
3	UB18	1.101	1.089	0.012
3	UB19	1.097	1.090	0.007
3	UB22	1.097	1.089	0.008
10	23	1.097	1.076	0.021
10	24	1.102	1.076	0.026
10	25	1.098	1.079	0.019
10	28	1.099	1.077	0.022
10	30	1.102	1.076	0.026
10	UB33	1.106	1.080	0.026
10	UB35	1.101	1.081	0.020
10	UB36	1.102	1.080	0.022
10	UB39	1.107	1.078	0.029
10	UB40	1.103	1.079	0.024
30	43	1.110	1.053	0.057
30	44	1.106	1.061	0.045
30	48	1.108	1.061	0.047
30	50	1.111	1.061	0.050
30	52	1.113	1.054	0.059
30	UB96	1.109	1.055	0.054
30	UB98	1.106	1.060	0.046
30	UB99	1.111	1.058	0.053
30	UB101	1.107	1.061	0.046
30	UB102	1.110	1.059	0.051
50	105	1.115	1.050	0.065
50	108	1.111	1.050	0.061
50	107	1.117	1.038	0.079
50	111	1.118	1.043	0.075
50	113	1.117	1.049	0.068
50	114	1.120	1.044	0.076
50	115	1.118	1.044	0.074
50	119	1.121	1.047	0.074
50	118	1.118	1.050	0.068
50	121	1.109	1.047	0.062
50	124	1.112	1.051	0.061
50	125	1.115	1.043	0.072
50	128	1.113	1.049	0.064
50	130	1.114	1.052	0.062
50	131	1.111	1.049	0.062
50	133	1.111	1.044	0.067
50	134	1.113	1.043	0.070
50	135	1.112	1.044	0.068
50	137	1.100	1.051	0.049
50	298	1.105	1.050	0.055
50	299	1.108	1.052	0.056
50	UB293	1.111	1.047	0.064
50	UB294	1.103	1.036	0.067
50	UB295	1.105	1.046	0.059
50	UB296	1.104	1.045	0.059
50	UB297	1.109	1.046	0.063
	Max	1.121	1.094	0.079
	Average	1.107	1.062	0.044
	Min	1.094	1.036	0.044
	Std Dev	0.007	0.018	0.024



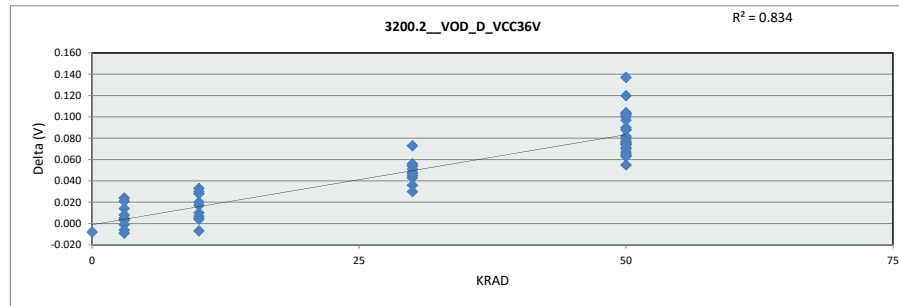
3200.1_VO_D_CL_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	1.18	V
Min Limit	0.6	V

	KRAD	0	3	10	30	50
LL		0.600	0.600	0.600	0.600	0.600
Min		1.085	1.085	1.076	1.053	1.036
Average		1.085	1.089	1.078	1.058	1.047
Max		1.085	1.094	1.081	1.061	1.052
UL		1.180	1.180	1.180	1.180	1.180

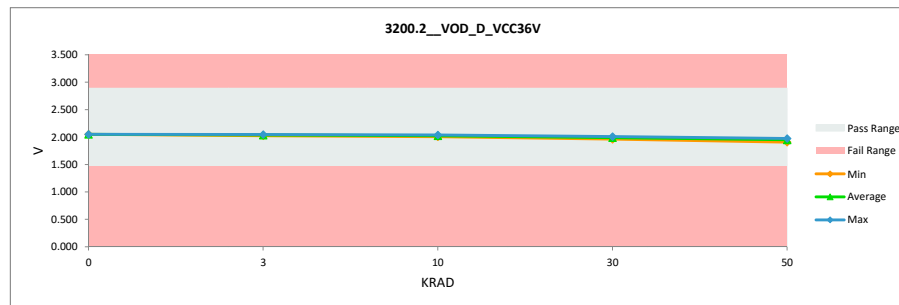


TID Report
TID_REPORT_HVD233_HKX_HDR

3200.2_VOD_D_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.89	2.89		
Min Limit	1.475	1.475		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.043	2.051	-0.008
3	1	2.039	2.035	0.004
3	2	2.041	2.036	0.005
3	3	2.037	2.046	-0.009
3	6	2.049	2.025	0.024
3	11	2.044	2.041	0.003
3	UB14	2.041	2.042	-0.001
3	UB16	2.045	2.031	0.014
3	UB18	2.040	2.046	-0.006
3	UB19	2.048	2.027	0.021
3	UB22	2.048	2.040	0.008
10	23	2.037	2.007	0.030
10	24	2.039	2.011	0.028
10	25	2.046	2.013	0.033
10	28	2.038	2.028	0.010
10	30	2.044	2.027	0.017
10	UB33	2.037	2.030	0.007
10	UB35	2.046	2.026	0.020
10	UB36	2.040	2.035	0.005
10	UB39	2.031	2.038	-0.007
10	UB40	2.038	2.034	0.004
30	43	2.034	1.961	0.073
30	44	2.042	1.988	0.054
30	48	2.030	1.994	0.036
30	50	2.039	1.994	0.045
30	52	2.027	1.976	0.051
30	UB96	2.035	1.979	0.056
30	UB98	2.040	2.010	0.030
30	UB99	2.039	1.991	0.048
30	UB101	2.041	1.998	0.043
30	UB102	2.034	1.987	0.047
50	105	2.014	1.959	0.055
50	108	2.038	1.948	0.090
50	107	2.031	1.911	0.120
50	111	2.028	1.924	0.104
50	113	2.029	1.954	0.075
50	114	2.025	1.925	0.100
50	115	2.033	1.930	0.103
50	119	2.024	1.945	0.079
50	118	2.033	1.952	0.081
50	121	2.032	1.950	0.082
50	124	2.035	1.964	0.071
50	125	2.025	1.949	0.076
50	128	2.031	1.943	0.088
50	130	2.036	1.962	0.074
50	131	2.037	1.961	0.076
50	133	2.038	1.941	0.097
50	134	2.037	1.935	0.102
50	135	2.034	1.946	0.088
50	137	2.043	1.966	0.077
50	298	2.031	1.968	0.063
50	299	2.031	1.966	0.065
50	UB293	2.036	1.969	0.067
50	UB294	2.044	1.907	0.137
50	UB295	2.037	1.967	0.070
50	UB296	2.044	1.970	0.074
50	UB297	2.037	1.973	0.064
	Max	2.049	2.051	0.137
	Average	2.037	1.987	0.050
	Min	2.014	1.907	-0.009
	Std Dev	0.007	0.040	0.037

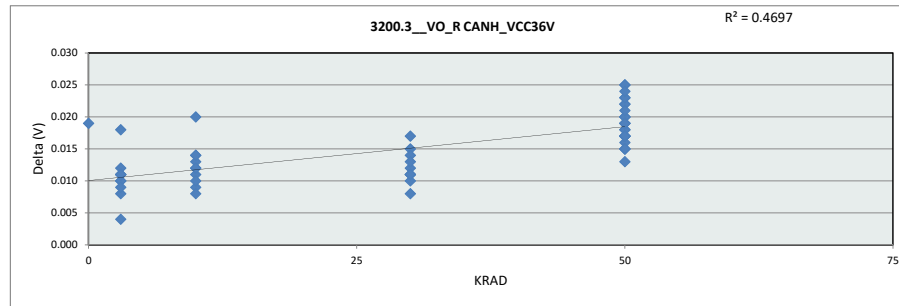


3200.2_VOD_D_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.89	V			
Min Limit	1.475	V			
KRAD	0	3	10	30	50
LL	1.475	1.475	1.475	1.475	1.475
Min	2.051	2.025	2.007	1.961	1.907
Average	2.051	2.037	2.025	1.988	1.949
Max	2.051	2.046	2.038	2.010	1.973
UL	2.890	2.890	2.890	2.890	2.890

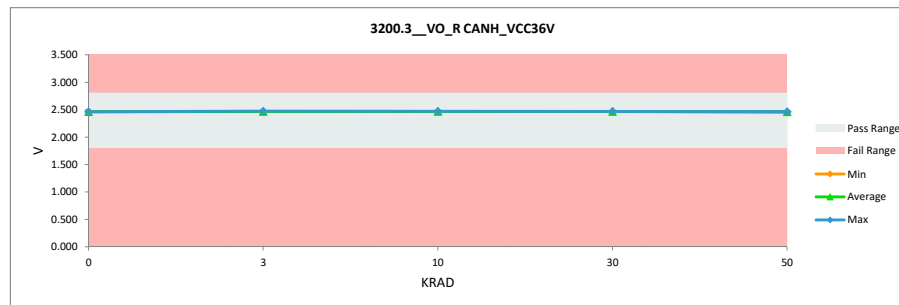


TID Report
TID_REPORT_HVD233_HKX_HDR

3200.3_VO_R CANH_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.8	1.8		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.480	2.461	0.019
3	1	2.478	2.468	0.010
3	2	2.476	2.466	0.010
3	3	2.479	2.468	0.011
3	6	2.477	2.473	0.004
3	11	2.483	2.465	0.018
3	UB14	2.479	2.467	0.012
3	UB16	2.478	2.467	0.011
3	UB18	2.475	2.467	0.008
3	UB19	2.479	2.468	0.011
3	UB22	2.476	2.467	0.009
10	23	2.479	2.468	0.011
10	24	2.478	2.469	0.009
10	25	2.477	2.469	0.008
10	28	2.480	2.468	0.012
10	30	2.480	2.470	0.010
10	UB33	2.479	2.465	0.014
10	UB35	2.482	2.469	0.013
10	UB36	2.480	2.466	0.014
10	UB39	2.477	2.465	0.012
10	UB40	2.486	2.466	0.020
30	43	2.476	2.468	0.008
30	44	2.481	2.464	0.017
30	48	2.482	2.467	0.015
30	50	2.480	2.466	0.014
30	52	2.480	2.468	0.012
30	UB96	2.482	2.469	0.013
30	UB98	2.477	2.466	0.011
30	UB99	2.479	2.468	0.011
30	UB101	2.477	2.467	0.010
30	UB102	2.479	2.468	0.011
50	105	2.481	2.461	0.020
50	108	2.478	2.460	0.018
50	107	2.478	2.463	0.015
50	111	2.477	2.460	0.017
50	113	2.482	2.459	0.023
50	114	2.481	2.463	0.018
50	115	2.481	2.462	0.019
50	119	2.481	2.461	0.020
50	118	2.481	2.461	0.020
50	121	2.480	2.461	0.019
50	124	2.473	2.460	0.013
50	125	2.479	2.462	0.017
50	128	2.479	2.463	0.016
50	130	2.479	2.462	0.017
50	131	2.482	2.460	0.022
50	133	2.482	2.460	0.022
50	134	2.479	2.462	0.017
50	135	2.482	2.461	0.021
50	137	2.480	2.463	0.017
50	298	2.481	2.462	0.019
50	299	2.480	2.465	0.015
50	UB293	2.480	2.455	0.025
50	UB294	2.479	2.454	0.025
50	UB295	2.479	2.456	0.023
50	UB296	2.477	2.462	0.015
50	UB297	2.481	2.457	0.024
	Max	2.486	2.473	0.025
	Average	2.479	2.464	0.015
	Min	2.473	2.454	0.004
	Std Dev	0.002	0.004	0.005

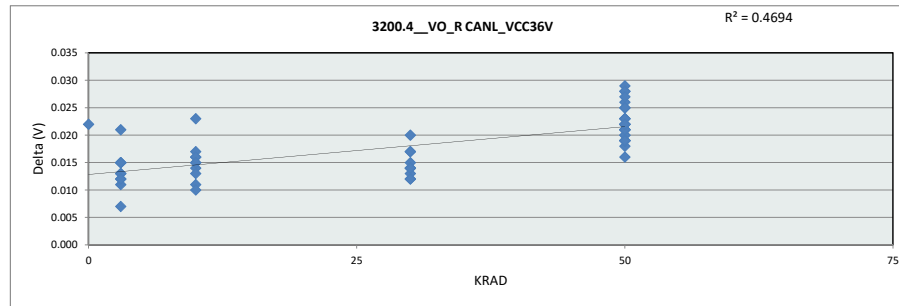


3200.3_VO_R CANH_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.461	2.465	2.465	2.464	2.454
Average	2.461	2.468	2.468	2.467	2.461
Max	2.461	2.473	2.470	2.469	2.465
UL	2.800	2.800	2.800	2.800	2.800

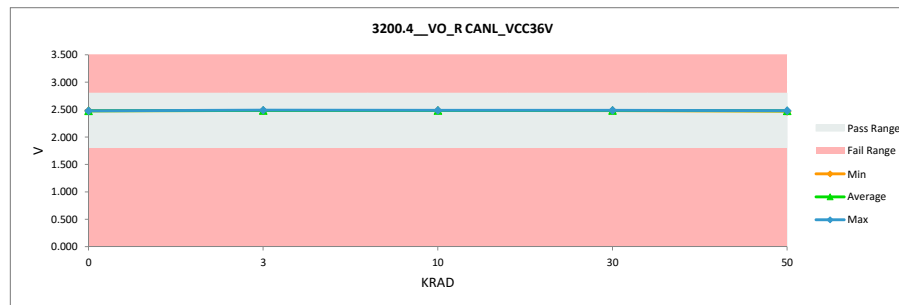


TID Report
TID_REPORT_HVD233_HKX_HDR

3200.4_VO_R CANL_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.8	1.8		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.500	2.478	0.022
3	1	2.499	2.486	0.013
3	2	2.496	2.484	0.012
3	3	2.500	2.485	0.015
3	6	2.497	2.490	0.007
3	11	2.504	2.483	0.021
3	UB14	2.499	2.484	0.015
3	UB16	2.499	2.484	0.015
3	UB18	2.495	2.484	0.011
3	UB19	2.499	2.486	0.013
3	UB22	2.496	2.484	0.012
10	23	2.500	2.486	0.014
10	24	2.498	2.487	0.011
10	25	2.497	2.487	0.010
10	28	2.501	2.486	0.015
10	30	2.500	2.487	0.013
10	UB33	2.499	2.483	0.016
10	UB35	2.503	2.486	0.017
10	UB36	2.500	2.484	0.016
10	UB39	2.498	2.483	0.015
10	UB40	2.506	2.483	0.023
30	43	2.497	2.485	0.012
30	44	2.501	2.481	0.020
30	48	2.502	2.485	0.017
30	50	2.500	2.483	0.017
30	52	2.500	2.486	0.014
30	UB96	2.502	2.487	0.015
30	UB98	2.497	2.483	0.014
30	UB99	2.499	2.486	0.013
30	UB101	2.497	2.485	0.012
30	UB102	2.500	2.486	0.014
50	105	2.501	2.478	0.023
50	108	2.498	2.477	0.021
50	107	2.499	2.481	0.018
50	111	2.498	2.477	0.021
50	113	2.503	2.477	0.026
50	114	2.502	2.481	0.021
50	115	2.501	2.479	0.022
50	119	2.501	2.479	0.022
50	118	2.501	2.478	0.023
50	121	2.501	2.479	0.022
50	124	2.493	2.477	0.016
50	125	2.499	2.480	0.019
50	128	2.500	2.480	0.020
50	130	2.499	2.479	0.020
50	131	2.502	2.477	0.025
50	133	2.502	2.477	0.025
50	134	2.499	2.480	0.019
50	135	2.502	2.479	0.023
50	137	2.501	2.480	0.021
50	298	2.501	2.479	0.022
50	299	2.501	2.482	0.019
50	UB293	2.501	2.472	0.029
50	UB294	2.499	2.471	0.028
50	UB295	2.500	2.472	0.028
50	UB296	2.498	2.479	0.019
50	UB297	2.501	2.474	0.027
	Max	2.506	2.490	0.029
	Average	2.500	2.482	0.018
	Min	2.493	2.471	0.007
	Std Dev	0.002	0.004	0.005



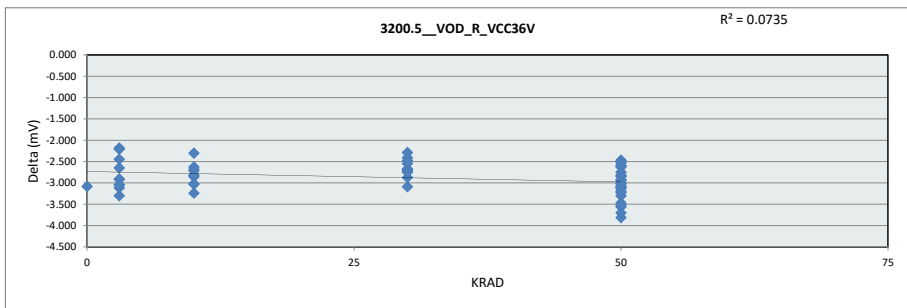
3200.4_VO_R CANL_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.478	2.483	2.483	2.481	2.471
Average	2.478	2.485	2.485	2.485	2.478
Max	2.478	2.490	2.487	2.487	2.482
UL	2.800	2.800	2.800	2.800	2.800



TID Report
TID_REPORT_HVD233_HKX_HDR

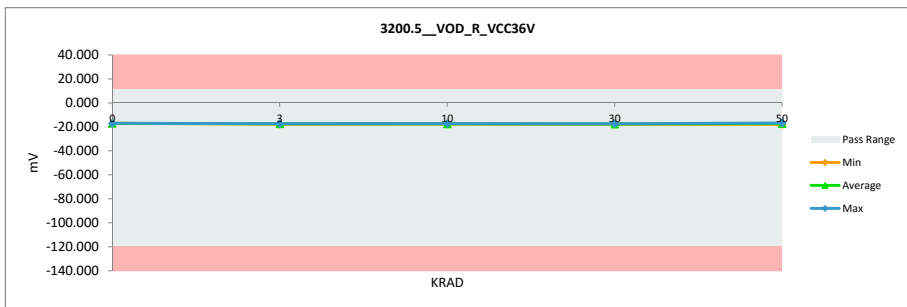
3200.5_VOD_R_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	10.92	10.92
Min Limit	-119	-119

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-20.116	-17.033	-3.083
3	1	-20.721	-17.420	-3.301
3	2	-20.397	-17.348	-3.049
3	3	-20.472	-17.355	-3.117
3	6	-19.967	-17.758	-2.209
3	11	-20.440	-17.521	-2.919
3	UB14	-20.289	-17.378	-2.911
3	UB16	-20.028	-17.581	-2.447
3	UB18	-20.276	-17.230	-3.046
3	UB19	-19.944	-17.762	-2.182
3	UB22	-19.954	-17.307	-2.647
10	23	-20.472	-17.660	-2.812
10	24	-20.264	-17.582	-2.682
10	25	-19.996	-17.692	-2.304
10	28	-20.606	-17.577	-3.029
10	30	-20.164	-17.308	-2.856
10	UB33	-20.111	-17.485	-2.626
10	UB35	-20.175	-17.459	-2.716
10	UB36	-20.357	-17.528	-2.829
10	UB39	-20.558	-17.318	-3.240
10	UB40	-20.296	-17.272	-3.024
30	43	-20.426	-17.731	-2.695
30	44	-20.039	-17.627	-2.412
30	48	-20.506	-17.417	-3.089
30	50	-20.068	-17.589	-2.479
30	52	-20.221	-17.552	-2.669
30	UB96	-20.208	-17.661	-2.547
30	UB98	-20.392	-17.678	-2.714
30	UB99	-20.062	-17.774	-2.288
30	UB101	-20.354	-17.481	-2.873
30	UB102	-20.398	-17.648	-2.750
50	105	-20.780	-16.966	-3.814
50	108	-20.068	-17.464	-2.604
50	107	-20.431	-17.938	-2.493
50	111	-20.342	-17.401	-2.941
50	113	-20.207	-17.739	-2.468
50	114	-20.359	-17.768	-2.591
50	115	-20.161	-16.931	-3.230
50	119	-20.102	-17.472	-2.630
50	118	-20.060	-17.131	-2.929
50	121	-20.442	-17.138	-3.304
50	124	-20.370	-17.275	-3.095
50	125	-20.455	-17.448	-3.007
50	128	-20.296	-17.226	-3.070
50	130	-20.128	-16.999	-3.129
50	131	-20.067	-17.243	-2.824
50	133	-20.015	-17.175	-2.840
50	134	-20.131	-17.602	-2.529
50	135	-20.243	-17.495	-2.748
50	137	-20.457	-16.896	-3.561
50	298	-20.730	-17.027	-3.703
50	299	-20.319	-17.208	-3.111
50	UB293	-20.319	-17.120	-3.199
50	UB294	-20.234	-16.766	-3.468
50	UB295	-20.331	-16.808	-3.523
50	UB296	-20.253	-17.404	-2.849
50	UB297	-20.243	-17.221	-3.022
	Max	-19.944	-16.766	-2.182
	Average	-20.278	-17.396	-2.881
	Min	-20.780	-17.938	-3.814
	Std Dev	0.198	0.269	0.360



3200.5_VOD_R_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	10.92	mV
Min Limit	-119	mV

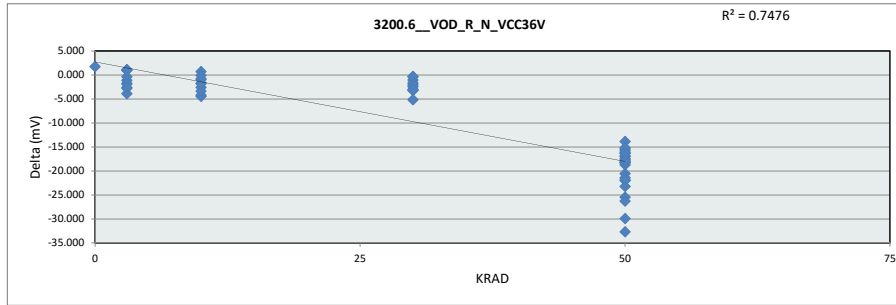
	KRAD	0	3	10	30	50
LL		-119.000	-119.000	-119.000	-119.000	-119.000
Min		-17.033	-17.762	-17.692	-17.774	-17.938
Average		-17.033	-17.466	-17.488	-17.616	-17.264
Max		-17.033	-17.230	-17.272	-17.417	-16.766
UL		10.920	10.920	10.920	10.920	10.920



TID Report
TID_REPORT_HVD233_HKX_HDR

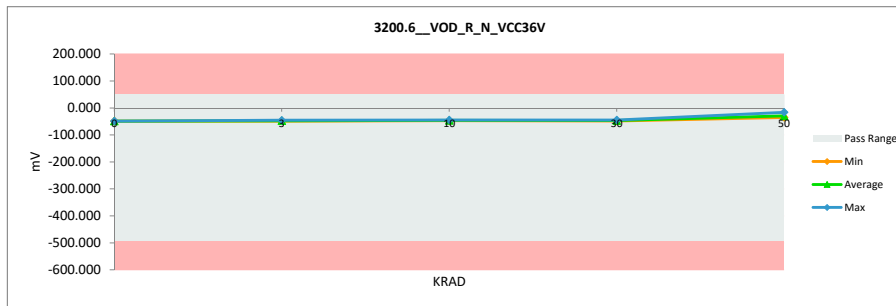
3200.6_VOD_R_N_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	49	49
Min Limit	-490	-490

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-46.981	-48.711	1.730
3	1	-48.669	-48.288	-0.381
3	2	-49.759	-46.979	-2.780
3	3	-47.886	-48.874	0.988
3	6	-49.416	-45.499	-3.917
3	11	-49.426	-47.594	-1.832
3	UB14	-47.065	-48.145	1.080
3	UB16	-49.316	-48.171	-1.145
3	UB18	-46.633	-47.624	0.991
3	UB19	-48.915	-47.029	-1.886
3	UB22	-50.512	-47.873	-2.639
10	23	-47.886	-46.176	-1.710
10	24	-45.187	-45.877	0.690
10	25	-49.877	-45.410	-4.467
10	28	-48.344	-47.384	-0.960
10	30	-48.781	-44.591	-4.190
10	UB33	-47.280	-44.680	-2.600
10	UB35	-49.282	-45.906	-3.376
10	UB36	-47.886	-47.086	-0.800
10	UB39	-49.167	-47.313	-1.854
10	UB40	-46.886	-46.764	-0.122
30	43	-48.776	-46.351	-2.425
30	44	-49.436	-48.351	-1.085
30	48	-47.432	-47.016	-0.416
30	50	-48.201	-46.524	-1.677
30	52	-48.951	-46.883	-2.068
30	UB96	-47.889	-44.878	-3.011
30	UB98	-49.647	-46.422	-3.225
30	UB99	-49.177	-46.032	-3.145
30	UB101	-49.749	-44.575	-5.174
30	UB102	-48.714	-48.411	-0.303
50	105	-47.582	-30.663	-16.919
50	108	-49.892	-34.476	-15.416
50	107	-49.343	-31.667	-17.676
50	111	-48.854	-28.268	-20.586
50	113	-48.615	-34.734	-13.881
50	114	-51.374	-35.261	-16.113
50	115	-47.743	-29.022	-18.721
50	119	-50.109	-28.116	-21.993
50	118	-47.007	-25.568	-21.439
50	121	-49.108	-30.847	-18.261
50	124	-50.362	-32.142	-18.220
50	125	-49.993	-33.045	-16.948
50	128	-49.088	-31.734	-17.354
50	130	-49.006	-32.676	-16.330
50	131	-49.209	-31.092	-18.117
50	133	-48.676	-25.456	-23.220
50	134	-49.403	-33.667	-15.736
50	135	-46.893	-31.722	-15.171
50	137	-49.118	-32.795	-16.323
50	298	-48.571	-30.288	-18.283
50	299	-49.269	-31.413	-17.856
50	UB293	-48.907	-23.424	-25.483
50	UB294	-48.783	-16.078	-32.705
50	UB295	-49.422	-19.495	-29.927
50	UB296	-49.548	-27.689	-21.859
50	UB297	-49.620	-23.320	-26.300
	Max	-45.187	-16.078	1.730
	Average	-48.748	-38.879	-9.869
	Min	-51.374	-48.874	-32.705
	Std Dev	1.120	9.349	9.639



3200.6_VOD_R_N_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	49	mV
Min Limit	-490	mV

KRAD	0	3	10	30	50
LL	-490.000	-490.000	-490.000	-490.000	-490.000
Min	-48.711	-48.874	-47.384	-48.411	-35.261
Average	-48.711	-47.608	-46.119	-46.544	-29.410
Max	-48.711	-45.499	-44.591	-44.575	-16.078
UL	49.000	49.000	49.000	49.000	49.000

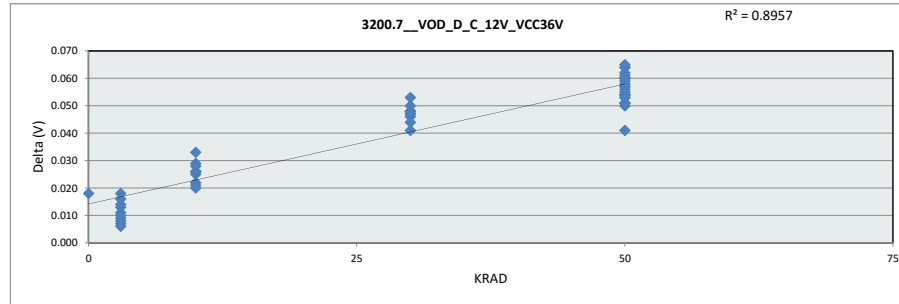


TID Report
TID_REPORT_HVD233_HKX_HDR

3200.7_VOD_D_C_12V_VCC36V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.79	2.79
Min Limit	1.3	1.3

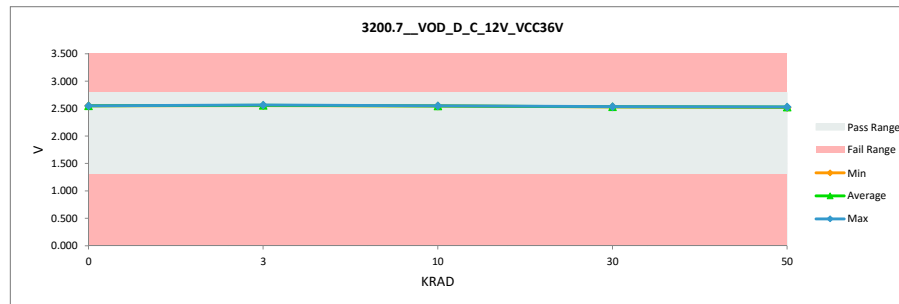
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.569	2.551	0.018
3	1	2.569	2.560	0.009
3	2	2.571	2.560	0.011
3	3	2.573	2.555	0.018
3	6	2.569	2.561	0.008
3	11	2.569	2.556	0.013
3	UB14	2.572	2.558	0.014
3	UB16	2.572	2.566	0.006
3	UB18	2.574	2.558	0.016
3	UB19	2.570	2.563	0.007
3	UB22	2.569	2.559	0.010
10	23	2.573	2.551	0.022
10	24	2.575	2.550	0.025
10	25	2.571	2.551	0.020
10	28	2.574	2.548	0.026
10	30	2.574	2.548	0.026
10	UB33	2.579	2.550	0.029
10	UB35	2.572	2.551	0.021
10	UB36	2.575	2.549	0.026
10	UB39	2.581	2.548	0.033
10	UB40	2.577	2.549	0.028
30	43	2.582	2.534	0.048
30	44	2.578	2.537	0.041
30	48	2.582	2.535	0.047
30	50	2.582	2.536	0.046
30	52	2.587	2.534	0.053
30	UB96	2.581	2.533	0.048
30	UB98	2.579	2.532	0.047
30	UB99	2.583	2.533	0.050
30	UB101	2.578	2.534	0.044
30	UB102	2.583	2.535	0.048
50	105	2.590	2.529	0.061
50	108	2.582	2.531	0.051
50	107	2.589	2.527	0.062
50	111	2.590	2.530	0.060
50	113	2.589	2.530	0.059
50	114	2.593	2.529	0.064
50	115	2.590	2.530	0.060
50	119	2.593	2.529	0.064
50	118	2.589	2.531	0.058
50	121	2.582	2.528	0.054
50	124	2.584	2.530	0.054
50	125	2.590	2.525	0.065
50	128	2.586	2.532	0.054
50	130	2.585	2.531	0.054
50	131	2.583	2.530	0.053
50	133	2.583	2.527	0.056
50	134	2.585	2.528	0.057
50	135	2.584	2.527	0.057
50	137	2.571	2.530	0.041
50	298	2.579	2.529	0.050
50	299	2.582	2.531	0.051
50	UB293	2.583	2.523	0.060
50	UB294	2.575	2.524	0.051
50	UB295	2.578	2.523	0.055
50	UB296	2.575	2.522	0.053
50	UB297	2.582	2.522	0.060
	Max	2.593	2.566	0.065
	Average	2.580	2.539	0.041
	Min	2.569	2.522	0.060
	Std Dev	0.007	0.013	0.019



3200.7_VOD_D_C_12V_VCC36V

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	2.79 V
Min Limit	1.3 V

	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	2.551	2.555	2.548	2.532	2.522
Average	2.551	2.560	2.550	2.534	2.528
Max	2.551	2.566	2.551	2.537	2.532
UL	2.790	2.790	2.790	2.790	2.790



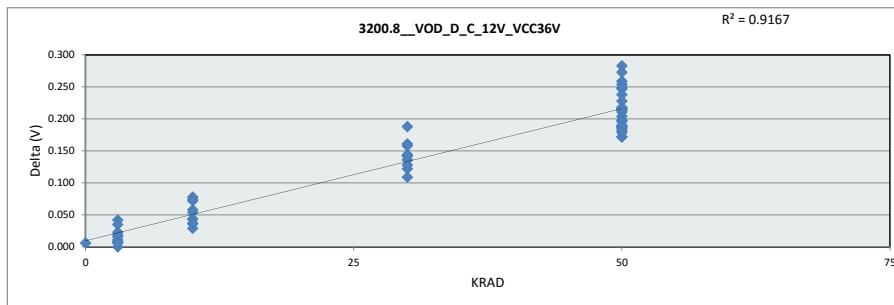
TID Report

TID_REPORT_HVD233_HKX_HDR

3200.8_VOD_D_C_12V_VCC36V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.79	2.79
Min Limit	1.3	1.3

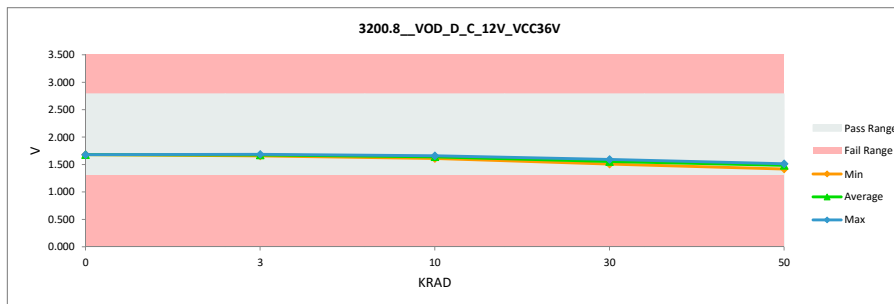
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.687	1.681	0.006
3	1	1.682	1.673	0.009
3	2	1.687	1.676	0.011
3	3	1.684	1.684	0.000
3	6	1.698	1.656	0.042
3	11	1.690	1.674	0.016
3	UB14	1.688	1.681	0.007
3	UB16	1.696	1.673	0.023
3	UB18	1.692	1.686	0.006
3	UB19	1.698	1.663	0.035
3	UB22	1.698	1.679	0.019
10	23	1.684	1.610	0.074
10	24	1.694	1.616	0.078
10	25	1.697	1.625	0.072
10	28	1.688	1.645	0.043
10	30	1.699	1.641	0.058
10	UB33	1.695	1.651	0.044
10	UB35	1.701	1.647	0.054
10	UB36	1.694	1.658	0.036
10	UB39	1.689	1.660	0.029
10	UB40	1.693	1.656	0.037
30	43	1.696	1.508	0.188
30	44	1.702	1.559	0.143
30	48	1.689	1.567	0.122
30	50	1.704	1.568	0.136
30	52	1.690	1.529	0.161
30	UB96	1.697	1.539	0.158
30	UB98	1.701	1.592	0.109
30	UB99	1.705	1.561	0.144
30	UB101	1.702	1.574	0.128
30	UB102	1.698	1.556	0.142
50	105	1.676	1.504	0.172
50	108	1.703	1.489	0.214
50	107	1.701	1.428	0.273
50	111	1.699	1.440	0.259
50	113	1.698	1.494	0.204
50	114	1.697	1.450	0.247
50	115	1.705	1.451	0.254
50	119	1.697	1.479	0.218
50	118	1.705	1.491	0.214
50	121	1.694	1.483	0.211
50	124	1.701	1.511	0.190
50	125	1.691	1.476	0.215
50	128	1.697	1.480	0.217
50	130	1.705	1.507	0.198
50	131	1.702	1.506	0.196
50	133	1.704	1.466	0.238
50	134	1.705	1.456	0.249
50	135	1.700	1.472	0.228
50	137	1.696	1.514	0.182
50	298	1.686	1.514	0.172
50	299	1.691	1.512	0.179
50	UB293	1.700	1.514	0.186
50	UB294	1.702	1.419	0.283
50	UB295	1.695	1.507	0.188
50	UB296	1.702	1.513	0.189
50	UB297	1.699	1.513	0.186
	Max	1.705	1.686	0.283
	Average	1.696	1.561	0.135
	Min	1.676	1.419	0.000
	Std Dev	0.007	0.084	0.087



3200.8_VOD_D_C_12V_VCC36V

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	2.79 V
Min Limit	1.3 V

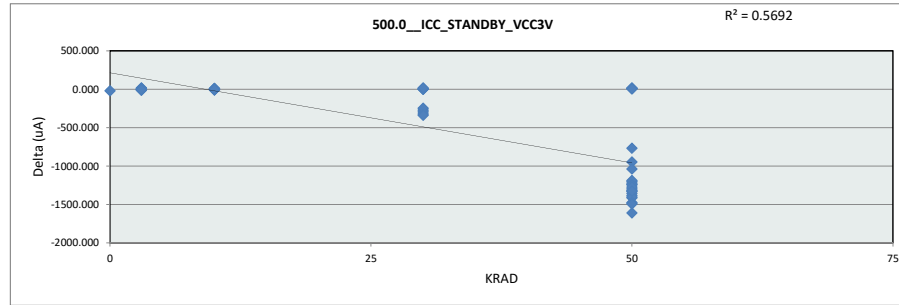
KRAD	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	1.681	1.656	1.610	1.508	1.419
Average	1.681	1.675	1.641	1.555	1.484
Max	1.681	1.686	1.660	1.592	1.514
UL	2.790	2.790	2.790	2.790	2.790



TID Report
TID_REPORT_HVD233_HKX_HDR

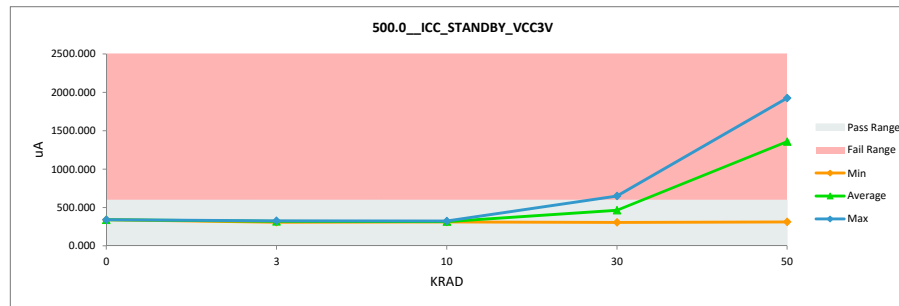
500.0_ICC_STANDBY_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	320.337	340.414	-20.077
3	1	315.597	321.696	-6.099
3	2	319.502	316.736	2.766
3	3	314.986	323.604	-8.618
3	6	326.304	307.324	18.980
3	11	326.507	317.835	8.672
3	UB14	317.882	318.213	-0.331
3	UB16	325.010	325.027	-0.017
3	UB18	313.989	324.006	-10.017
3	UB19	322.399	310.180	12.219
3	UB22	325.378	326.979	-1.601
10	23	314.986	310.649	4.337
10	24	321.137	312.709	8.428
10	25	325.444	313.592	11.852
10	28	305.652	313.784	-8.132
10	30	328.849	319.696	9.153
10	UB33	318.533	323.827	-5.294
10	UB35	320.212	314.868	5.344
10	UB36	314.289	323.101	-8.812
10	UB39	317.046	319.209	-2.163
10	UB40	315.760	313.474	2.286
30	43	316.232	637.985	-321.753
30	44	331.864	626.583	-294.719
30	48	314.358	586.039	-271.681
30	50	318.429	563.893	-245.464
30	52	312.480	649.824	-337.344
30	UB96	321.236	313.837	7.399
30	UB98	321.483	320.731	0.752
30	UB99	324.838	321.010	3.828
30	UB101	315.632	314.545	1.087
30	UB102	324.897	305.927	18.970
50	105	314.472	1081.326	-766.854
50	108	326.777	1527.613	-1200.836
50	107	316.800	1263.680	-946.880
50	111	313.517	1924.584	-1611.067
50	113	319.907	1541.504	-1221.597
50	114	321.330	1558.712	-1237.382
50	115	320.141	1649.878	-1329.737
50	119	323.520	1637.364	-1313.844
50	118	324.814	1513.264	-1188.450
50	121	317.399	1800.177	-1482.778
50	124	321.941	1676.971	-1355.030
50	125	319.288	1732.858	-1413.570
50	128	314.824	1697.093	-1382.269
50	130	322.421	1566.514	-1244.093
50	131	325.700	1621.340	-1295.640
50	133	327.997	1729.448	-1401.451
50	134	318.266	1793.915	-1475.649
50	135	322.999	1816.020	-1493.021
50	137	323.915	1362.331	-1038.416
50	298	306.742	1580.714	-1273.972
50	299	320.278	1645.862	-1325.584
50	UB293	322.076	312.534	9.542
50	UB294	326.397	312.119	14.278
50	UB295	329.664	312.847	16.817
50	UB296	328.647	317.777	10.870
50	UB297	321.842	316.509	5.333
	Max	331.864	1924.584	18.980
	Average	320.402	818.075	-497.672
	Min	305.652	305.927	-1611.067
	Std Dev	5.448	623.294	623.572



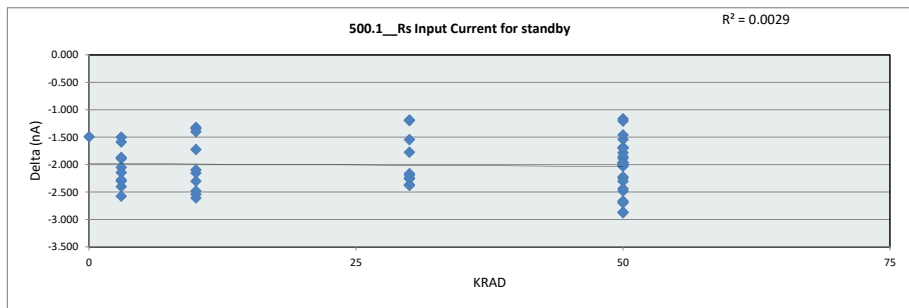
500.0_ICC_STANDBY_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	595	uA
Min Limit	0	uA

KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	340.414	307.324	310.649	305.927	312.119
Average	340.414	319.160	316.491	464.037	1357.421
Max	340.414	326.979	323.827	649.824	1924.584
UL	595.000	595.000	595.000	595.000	595.000

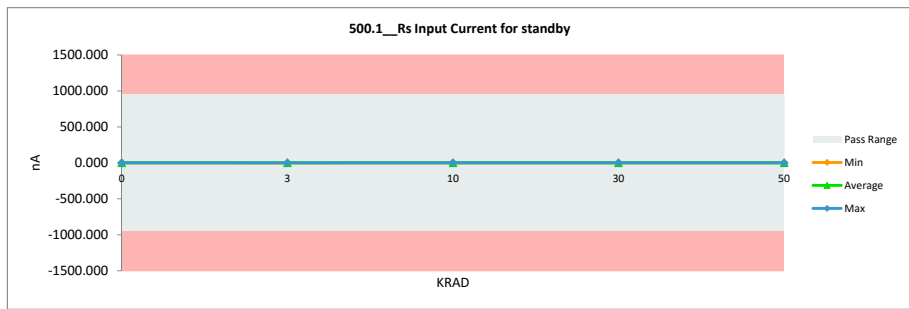


TID Report
TID_REPORT_HVD233_HKX_HDR

500.1__Rs Input Current for sta				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	nA	nA		
Max Limit	950	950		
Min Limit	-950	-950		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-1.622	-0.131	-1.491
3	1	-1.476	0.924	-2.400
3	2	-1.913	-0.414	-1.499
3	3	-1.968	-0.079	-1.889
3	6	-1.885	0.692	-2.577
3	11	-1.496	0.554	-2.050
3	UB14	-1.756	0.113	-1.869
3	UB16	-1.929	0.369	-2.298
3	UB18	-1.469	0.117	-1.586
3	UB19	-1.508	0.770	-2.278
3	UB22	-1.885	0.259	-2.144
10	23	-1.968	0.640	-2.608
10	24	-1.673	-0.351	-1.322
10	25	-1.453	-0.107	-1.346
10	28	-1.575	0.578	-2.153
10	30	-1.744	0.558	-2.302
10	UB33	-1.775	-0.052	-1.723
10	UB35	-1.866	0.613	-2.479
10	UB36	-2.023	0.070	-2.093
10	UB39	-1.579	-0.178	-1.401
10	UB40	-1.779	0.762	-2.541
30	43	-1.417	-0.229	-1.188
30	44	-1.429	-0.233	-1.196
30	48	-1.665	0.700	-2.365
30	50	-1.642	0.546	-2.188
30	52	-1.598	0.176	-1.774
30	UB96	-1.657	0.601	-2.258
30	UB98	-1.791	0.589	-2.380
30	UB99	-1.697	-0.154	-1.543
30	UB101	-1.665	0.574	-2.239
30	UB102	-1.854	0.310	-2.164
50	105	-1.476	0.554	-2.030
50	108	-1.925	0.939	-2.864
50	107	-1.634	0.149	-1.783
50	111	-1.972	0.251	-2.223
50	113	-1.626	-0.087	-1.539
50	114	-1.457	-0.292	-1.165
50	115	-1.720	0.263	-1.983
50	119	-1.889	-0.190	-1.699
50	118	-1.634	0.322	-1.956
50	121	-1.646	0.039	-1.685
50	124	-1.331	-0.127	-1.204
50	125	-1.669	0.216	-1.885
50	128	-1.779	0.239	-2.018
50	130	-1.732	0.121	-1.853
50	131	-1.893	0.353	-2.246
50	133	-1.701	0.259	-1.960
50	134	-1.575	-0.115	-1.460
50	135	-1.638	0.353	-1.991
50	137	-1.830	0.869	-2.699
50	298	-1.602	0.703	-2.305
50	299	-1.559	0.924	-2.483
50	UB293	-1.532	0.161	-1.693
50	UB294	-1.830	0.853	-2.683
50	UB295	-1.579	0.861	-2.440
50	UB296	-1.822	0.841	-2.663
50	UB297	-2.027	0.853	-2.880
	Max	-1.331	0.939	-1.165
	Average	-1.699	0.314	-2.013
	Min	-2.027	-0.414	-2.880
	Std Dev	0.172	0.387	0.453



500.1__Rs Input Current for s					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	950	nA			
Min Limit	-950	nA			
KRAD	0	3	10	30	50
LL	-950.000	-950.000	-950.000	-950.000	-950.000
Min	-0.131	-0.414	-0.351	-0.233	-0.292
Average	-0.131	0.331	0.253	0.288	0.358
Max	-0.131	0.924	0.762	0.700	0.939
UL	950.000	950.000	950.000	950.000	950.000

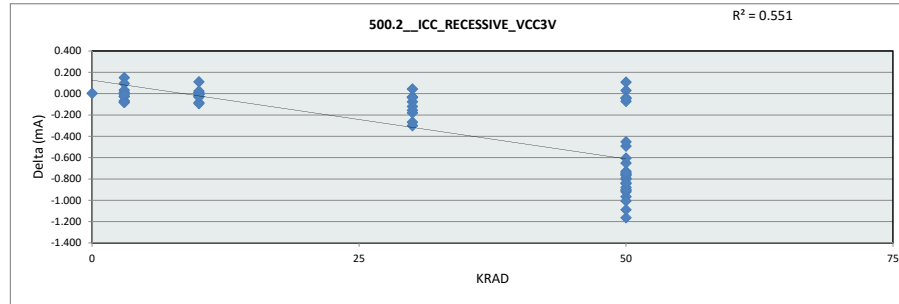


TID Report
TID_REPORT_HVD233_HKX_HDR

500.2_ICC_RECESSIVE_VCC3V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

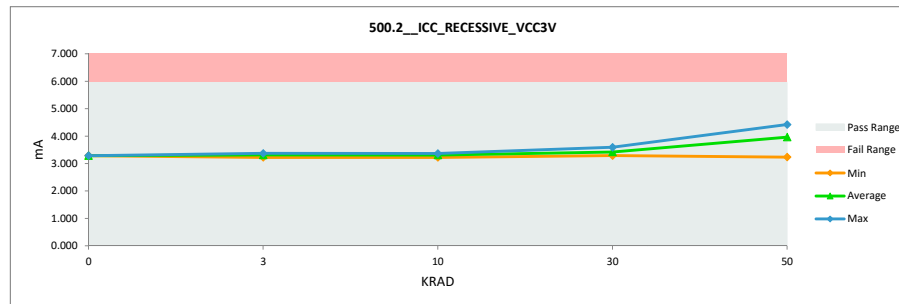
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.289	3.287	0.002
3	1	3.286	3.368	-0.082
3	2	3.320	3.309	0.011
3	3	3.293	3.320	-0.027
3	6	3.373	3.224	0.149
3	11	3.262	3.330	-0.068
3	UB14	3.276	3.301	-0.025
3	UB16	3.374	3.279	0.095
3	UB18	3.290	3.372	-0.082
3	UB19	3.318	3.286	0.032
3	UB22	3.334	3.339	-0.005
10	23	3.293	3.284	0.009
10	24	3.334	3.223	0.111
10	25	3.375	3.367	0.008
10	28	3.258	3.342	-0.084
10	30	3.306	3.312	-0.006
10	UB33	3.326	3.354	-0.028
10	UB35	3.297	3.273	0.024
10	UB36	3.250	3.343	-0.093
10	UB39	3.286	3.294	-0.008
10	UB40	3.281	3.313	-0.032
30	43	3.261	3.529	-0.268
30	44	3.414	3.595	-0.181
30	48	3.327	3.483	-0.156
30	50	3.350	3.470	-0.120
30	52	3.199	3.500	-0.301
30	UB96	3.294	3.326	-0.032
30	UB98	3.255	3.332	-0.077
30	UB99	3.316	3.350	-0.034
30	UB101	3.315	3.350	-0.035
30	UB102	3.333	3.290	0.043
50	105	3.311	3.804	-0.493
50	108	3.291	4.094	-0.803
50	107	3.306	3.758	-0.452
50	111	3.258	4.422	-1.164
50	113	3.300	4.049	-0.749
50	114	3.307	4.100	-0.793
50	115	3.340	4.105	-0.765
50	119	3.360	4.089	-0.729
50	118	3.383	4.035	-0.652
50	121	3.277	4.244	-0.967
50	124	3.254	4.174	-0.920
50	125	3.327	4.235	-0.908
50	128	3.302	4.181	-0.879
50	130	3.297	4.059	-0.762
50	131	3.250	4.150	-0.900
50	133	3.369	4.113	-0.744
50	134	3.320	4.410	-1.090
50	135	3.315	4.322	-1.007
50	137	3.313	3.918	-0.605
50	298	3.288	4.132	-0.844
50	299	3.303	4.140	-0.837
50	UB293	3.242	3.315	-0.073
50	UB294	3.346	3.316	0.030
50	UB295	3.342	3.235	0.107
50	UB296	3.293	3.333	-0.040
50	UB297	3.270	3.316	-0.046
	Max	3.414	4.422	0.149
	Average	3.306	3.628	-0.322
	Min	3.199	3.223	-1.164
	Std Dev	0.040	0.397	0.399



500.2_ICC_RECESSIVE_VCC3V

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	5.95 mA
Min Limit	0 mA

KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.287	3.224	3.223	3.290	3.235
Average	3.287	3.313	3.311	3.423	3.963
Max	3.287	3.372	3.367	3.595	4.422
UL	5.950	5.950	5.950	5.950	5.950

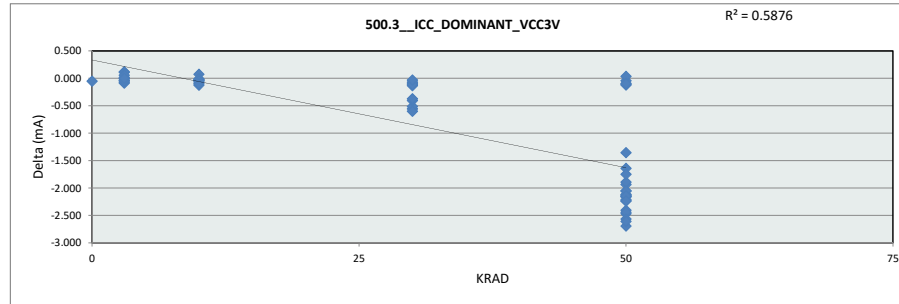


TID Report
TID_REPORT_HVD233_HKX_HDR

500.3_ICC_DOMINANT_VCC3V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

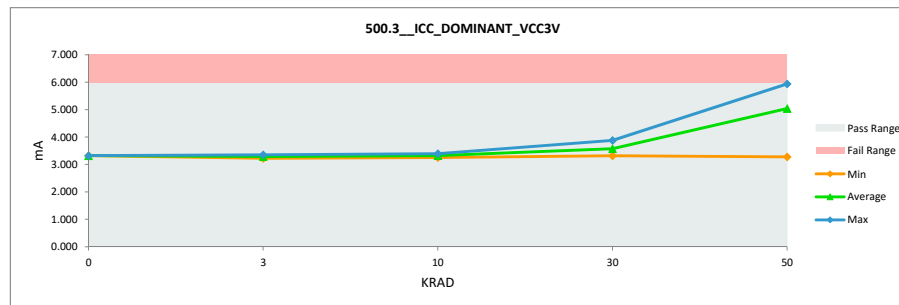
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.269	3.321	-0.052
3	1	3.267	3.355	-0.088
3	2	3.281	3.292	-0.011
3	3	3.273	3.315	-0.042
3	6	3.339	3.222	0.117
3	11	3.242	3.312	-0.070
3	UB14	3.274	3.258	0.016
3	UB16	3.360	3.247	0.113
3	UB18	3.287	3.329	-0.042
3	UB19	3.307	3.252	0.055
3	UB22	3.327	3.326	0.001
10	23	3.273	3.295	-0.022
10	24	3.328	3.255	0.073
10	25	3.358	3.396	-0.038
10	28	3.234	3.360	-0.126
10	30	3.294	3.343	-0.049
10	UB33	3.317	3.342	-0.025
10	UB35	3.281	3.289	-0.008
10	UB36	3.244	3.328	-0.084
10	UB39	3.242	3.292	-0.050
10	UB40	3.222	3.322	-0.100
30	43	3.276	3.831	-0.555
30	44	3.368	3.880	-0.512
30	48	3.322	3.726	-0.404
30	50	3.337	3.710	-0.373
30	52	3.189	3.789	-0.600
30	UB96	3.254	3.343	-0.089
30	UB98	3.245	3.378	-0.133
30	UB99	3.298	3.366	-0.068
30	UB101	3.275	3.389	-0.114
30	UB102	3.286	3.317	-0.031
50	105	3.314	4.669	-1.355
50	108	3.281	5.334	-2.053
50	107	3.289	4.929	-1.640
50	111	3.247	5.940	-2.693
50	113	3.299	5.234	-1.935
50	114	3.279	5.395	-2.116
50	115	3.297	5.453	-2.156
50	119	3.341	5.470	-2.129
50	118	3.347	5.240	-1.893
50	121	3.272	5.742	-2.470
50	124	3.223	5.458	-2.235
50	125	3.285	5.691	-2.406
50	128	3.292	5.504	-2.212
50	130	3.287	5.338	-2.051
50	131	3.250	5.408	-2.158
50	133	3.321	5.765	-2.444
50	134	3.300	5.865	-2.565
50	135	3.271	5.879	-2.608
50	137	3.268	5.017	-1.749
50	298	3.242	5.386	-2.144
50	299	3.287	5.523	-2.236
50	UB293	3.246	3.368	-0.122
50	UB294	3.324	3.367	-0.043
50	UB295	3.311	3.276	0.035
50	UB296	3.243	3.349	-0.106
50	UB297	3.251	3.345	-0.094
	Max	3.368	5.940	0.117
	Average	3.285	4.143	-0.858
	Min	3.189	3.222	-2.693
	Std Dev	0.038	1.027	1.027



500.3_ICC_DOMINANT_VCC3V

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	5.95 mA
Min Limit	0 mA

	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.321	3.222	3.255	3.317	3.276
Average	3.321	3.291	3.322	3.573	5.036
Max	3.321	3.355	3.396	3.880	5.940
UL	5.950	5.950	5.950	5.950	5.950

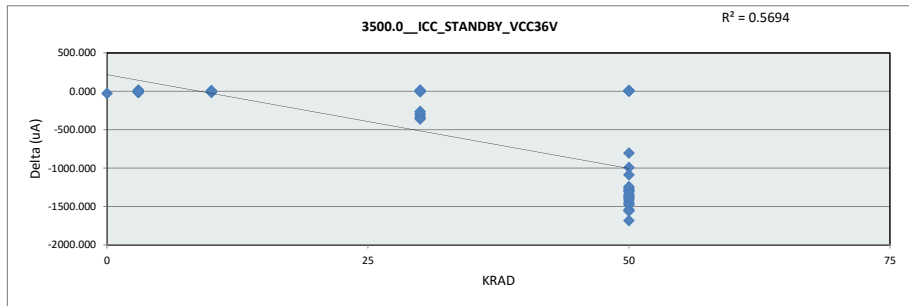


TID Report
TID_REPORT_HVD233_HKX_HDR

3500.0_ICC_STANDBY_VCC36V

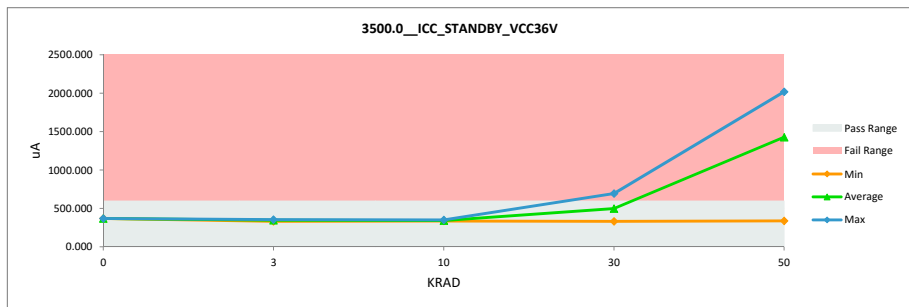
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	341.899	369.168	-27.269
3	1	336.873	347.943	-11.070
3	2	341.284	342.643	-1.359
3	3	336.759	350.158	-13.399
3	6	348.473	332.035	16.438
3	11	348.539	344.202	4.337
3	UB14	340.030	344.226	-4.196
3	UB16	347.506	351.315	-3.809
3	UB18	336.095	350.232	-14.137
3	UB19	344.383	335.308	9.075
3	UB22	347.539	353.555	-6.016
10	23	336.759	336.408	0.351
10	24	343.219	338.196	5.023
10	25	347.826	339.780	8.046
10	28	327.717	340.059	-12.342
10	30	351.408	345.703	5.705
10	UB33	340.480	350.109	-9.629
10	UB35	342.432	340.682	1.750
10	UB36	336.054	349.346	-13.292
10	UB39	338.620	345.400	-6.780
10	UB40	337.669	339.771	-2.102
30	43	338.398	679.837	-341.439
30	44	354.072	667.801	-313.729
30	48	336.037	626.156	-290.119
30	50	340.095	602.207	-262.112
30	52	334.021	693.974	-359.953
30	UB96	343.194	339.624	3.570
30	UB98	343.571	346.876	-3.305
30	UB99	347.293	346.835	0.458
30	UB101	337.111	340.781	-3.670
30	UB102	347.030	330.714	16.316
50	105	335.947	1140.246	-804.299
50	108	349.113	1605.446	-1256.333
50	107	339.070	1330.335	-991.265
50	111	335.086	2018.523	-1683.437
50	113	341.817	1619.664	-1277.847
50	114	343.178	1637.599	-1294.421
50	115	342.153	1731.811	-1389.658
50	119	345.907	1719.857	-1373.950
50	118	346.817	1589.144	-1242.327
50	121	338.816	1887.884	-1549.068
50	124	343.358	1758.992	-1415.634
50	125	341.366	1819.295	-1477.929
50	128	336.775	1782.055	-1445.280
50	130	344.932	1646.452	-1301.520
50	131	347.826	1703.292	-1355.466
50	133	350.236	1816.661	-1466.425
50	134	340.489	1881.312	-1540.823
50	135	345.161	1905.072	-1559.911
50	137	345.891	1433.891	-1088.000
50	298	328.102	1660.555	-1332.453
50	299	342.268	1728.546	-1386.278
50	UB293	344.022	338.147	5.875
50	UB294	348.555	337.876	10.679
50	UB295	352.006	339.058	12.948
50	UB296	350.933	344.292	6.641
50	UB297	343.817	342.955	0.862
	Max	354.072	2018.523	16.438
	Average	342.386	865.614	-523.228
	Min	327.717	330.714	-1683.437
	Std Dev	5.648	649.631	649.931



Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	595 uA
Min Limit	0 uA

KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	369.168	332.035	336.408	330.714	337.876
Average	369.168	345.162	342.545	497.481	1427.652
Max	369.168	353.555	350.109	693.974	2018.523
UL	595.000	595.000	595.000	595.000	595.000



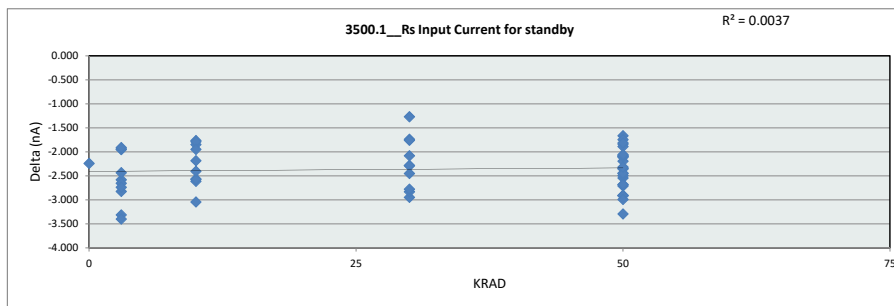
TID Report

TID_REPORT_HVD233_HKX_HDR

3500.1_Rs Input Current for st

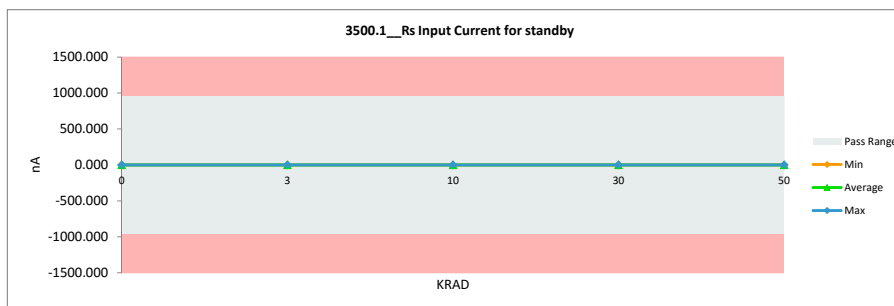
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	nA	nA
Max Limit	950	950
Min Limit	-950	-950

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-2.617	-0.378	-2.239
3	1	-2.239	0.342	-2.581
3	2	-2.416	-0.477	-1.939
3	3	-2.322	-0.370	-1.952
3	6	-2.845	0.468	-3.313
3	11	-2.428	0.397	-2.825
3	UB14	-2.220	-0.311	-1.909
3	UB16	-2.487	0.165	-2.652
3	UB18	-2.322	0.110	-2.432
3	UB19	-2.640	0.759	-3.399
3	UB22	-2.412	0.326	-2.738
10	23	-2.322	0.243	-2.565
10	24	-2.448	-0.685	-1.763
10	25	-2.338	-0.492	-1.846
10	28	-1.996	0.188	-2.184
10	30	-2.180	0.432	-2.612
10	UB33	-2.428	0.145	-2.573
10	UB35	-2.452	0.593	-3.045
10	UB36	-2.220	-0.433	-1.787
10	UB39	-2.365	-0.418	-1.947
10	UB40	-2.224	0.180	-2.404
30	43	-2.110	-0.374	-1.736
30	44	-2.066	-0.799	-1.267
30	48	-2.412	0.534	-2.946
30	50	-2.263	0.566	-2.829
30	52	-2.192	-0.111	-2.081
30	UB96	-2.554	0.224	-2.778
30	UB98	-2.247	0.039	-2.286
30	UB99	-2.231	-0.473	-1.758
30	UB101	-2.141	0.141	-2.282
30	UB102	-2.495	-0.044	-2.451
50	105	-2.436	0.479	-2.915
50	108	-2.334	0.377	-2.711
50	107	-2.176	-0.083	-2.093
50	111	-2.279	-0.170	-2.109
50	113	-1.917	-0.079	-1.838
50	114	-2.349	-0.685	-1.664
50	115	-2.294	0.389	-2.683
50	119	-2.287	-0.543	-1.744
50	118	-2.373	-0.178	-2.195
50	121	-2.463	0.082	-2.545
50	124	-2.031	0.043	-2.074
50	125	-2.172	-0.284	-1.888
50	128	-2.534	-0.182	-2.352
50	130	-2.487	0.420	-2.907
50	131	-2.487	0.007	-2.494
50	133	-2.090	-0.001	-2.089
50	134	-2.157	-0.099	-2.058
50	135	-1.952	-0.138	-1.814
50	137	-2.574	0.719	-3.293
50	298	-2.283	0.161	-2.444
50	299	-2.235	0.672	-2.907
50	UB293	-1.972	0.373	-2.345
50	UB294	-2.314	0.137	-2.451
50	UB295	-1.779	0.538	-2.317
50	UB296	-2.102	0.578	-2.680
50	UB297	-2.420	0.570	-2.990
	Max	-1.779	0.759	-1.267
	Average	-2.301	0.063	-2.363
	Min	-2.845	-0.799	-3.399
	Std Dev	0.197	0.397	0.468



Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	950 nA
Min Limit	-950 nA

KRAD	0	3	10	30	50
LL	-950.000	-950.000	-950.000	-950.000	-950.000
Min	-0.378	-0.477	-0.685	-0.799	-0.685
Average	-0.378	0.141	-0.025	-0.030	0.119
Max	-0.378	0.759	0.593	0.566	0.719
UL	950.000	950.000	950.000	950.000	950.000

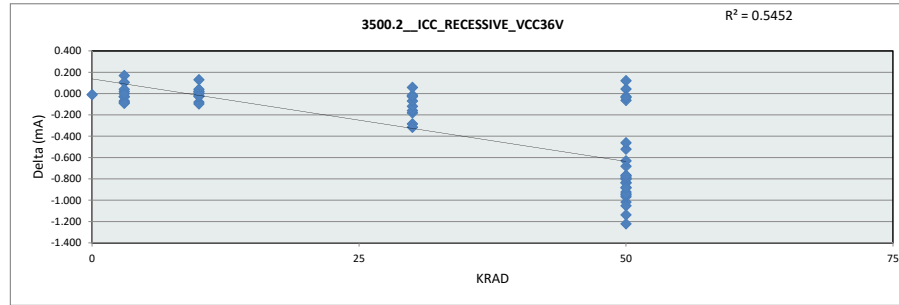


TID Report
TID_REPORT_HVD233_HKX_HDR

3500.2_ICC_RECESSIVE_VCC36V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

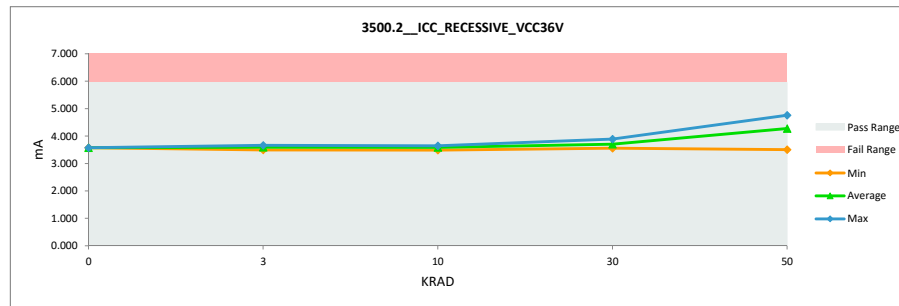
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.568	3.578	-0.010
3	1	3.570	3.652	-0.082
3	2	3.607	3.588	0.019
3	3	3.576	3.605	-0.029
3	6	3.665	3.496	0.169
3	11	3.543	3.613	-0.070
3	UB14	3.557	3.586	-0.029
3	UB16	3.667	3.561	0.106
3	UB18	3.571	3.662	-0.091
3	UB19	3.604	3.564	0.040
3	UB22	3.620	3.621	-0.001
10	23	3.576	3.554	0.022
10	24	3.620	3.490	0.130
10	25	3.663	3.646	0.017
10	28	3.539	3.619	-0.080
10	30	3.589	3.583	0.006
10	UB33	3.612	3.632	-0.020
10	UB35	3.583	3.543	0.040
10	UB36	3.528	3.624	-0.096
10	UB39	3.569	3.569	0.000
10	UB40	3.568	3.594	-0.026
30	43	3.540	3.824	-0.284
30	44	3.710	3.891	-0.181
30	48	3.612	3.771	-0.159
30	50	3.637	3.756	-0.119
30	52	3.477	3.792	-0.315
30	UB96	3.582	3.598	-0.016
30	UB98	3.535	3.604	-0.069
30	UB99	3.601	3.628	-0.027
30	UB101	3.603	3.625	-0.022
30	UB102	3.618	3.560	0.058
50	105	3.596	4.117	-0.521
50	108	3.576	4.413	-0.837
50	107	3.595	4.056	-0.461
50	111	3.537	4.758	-1.221
50	113	3.585	4.369	-0.784
50	114	3.588	4.422	-0.834
50	115	3.627	4.428	-0.801
50	119	3.647	4.413	-0.766
50	118	3.676	4.358	-0.682
50	121	3.557	4.575	-1.018
50	124	3.533	4.499	-0.966
50	125	3.613	4.563	-0.950
50	128	3.584	4.507	-0.923
50	130	3.582	4.379	-0.797
50	131	3.531	4.472	-0.941
50	133	3.662	4.433	-0.771
50	134	3.608	4.746	-1.138
50	135	3.601	4.653	-1.052
50	137	3.601	4.232	-0.631
50	298	3.572	4.452	-0.880
50	299	3.585	4.469	-0.884
50	UB293	3.521	3.585	-0.064
50	UB294	3.632	3.589	0.043
50	UB295	3.626	3.505	0.121
50	UB296	3.580	3.608	-0.028
50	UB297	3.552	3.589	-0.037
	Max	3.710	4.758	0.169
	Average	3.591	3.923	-0.332
	Min	3.477	3.490	-1.221
	Std Dev	0.044	0.420	0.422



3500.2_ICC_RECESSIVE_VCC

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	5.95 mA
Min Limit	0 mA

	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		3.578	3.496	3.490	3.560	3.505
Average		3.578	3.595	3.585	3.705	4.277
Max		3.578	3.662	3.646	3.891	4.758
UL		5.950	5.950	5.950	5.950	5.950

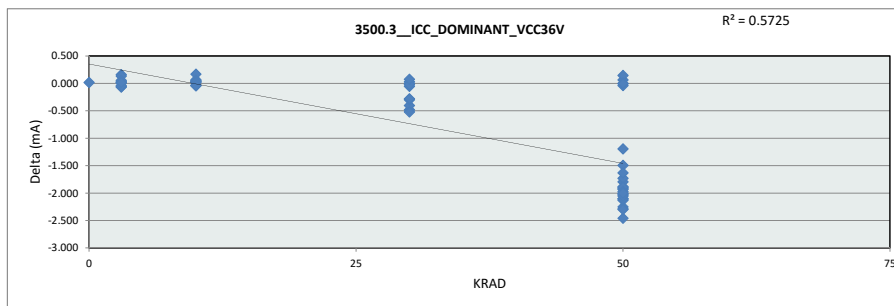


TID Report
TID_REPORT_HVD233_HKX_HDR

3500.3_ICC_DOMINANT_VCC3

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

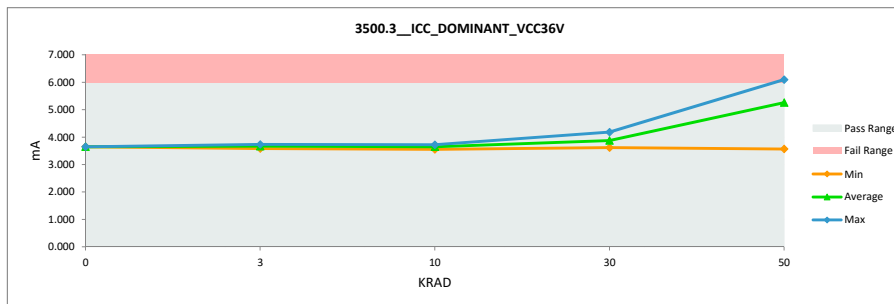
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.665	3.649	0.016
3	1	3.666	3.733	-0.067
3	2	3.690	3.663	0.027
3	3	3.686	3.681	0.005
3	6	3.739	3.582	0.157
3	11	3.630	3.694	-0.064
3	UB14	3.663	3.643	0.020
3	UB16	3.763	3.631	0.132
3	UB18	3.676	3.720	-0.044
3	UB19	3.695	3.642	0.053
3	UB22	3.715	3.701	0.014
10	23	3.686	3.621	0.065
10	24	3.720	3.554	0.166
10	25	3.762	3.721	0.041
10	28	3.628	3.674	-0.046
10	30	3.681	3.648	0.033
10	UB33	3.710	3.687	0.023
10	UB35	3.668	3.619	0.049
10	UB36	3.634	3.670	-0.036
10	UB39	3.653	3.637	0.016
10	UB40	3.631	3.667	-0.036
30	43	3.654	4.137	-0.483
30	44	3.777	4.183	-0.406
30	48	3.730	4.031	-0.301
30	50	3.730	4.011	-0.281
30	52	3.570	4.090	-0.520
30	UB96	3.649	3.657	-0.008
30	UB98	3.625	3.681	-0.056
30	UB99	3.703	3.677	0.026
30	UB101	3.672	3.695	-0.023
30	UB102	3.691	3.618	0.073
50	105	3.708	4.904	-1.196
50	108	3.667	5.586	-1.919
50	107	3.693	5.187	-1.494
50	111	3.636	6.096	-2.460
50	113	3.701	5.497	-1.796
50	114	3.674	5.607	-1.933
50	115	3.691	5.708	-2.017
50	119	3.745	5.631	-1.886
50	118	3.754	5.485	-1.731
50	121	3.658	5.911	-2.253
50	124	3.611	5.719	-2.108
50	125	3.702	5.834	-2.132
50	128	3.686	5.788	-2.102
50	130	3.676	5.572	-1.896
50	131	3.633	5.667	-2.034
50	133	3.729	5.783	-2.054
50	134	3.697	5.986	-2.289
50	135	3.677	5.978	-2.301
50	137	3.668	5.300	-1.632
50	298	3.646	5.620	-1.974
50	299	3.695	5.699	-2.004
50	UB293	3.622	3.661	-0.039
50	UB294	3.729	3.667	0.062
50	UB295	3.712	3.567	0.145
50	UB296	3.643	3.648	-0.005
50	UB297	3.637	3.640	-0.003
	Max	3.777	6.096	0.166
	Average	3.682	4.427	-0.746
	Min	3.570	3.554	-2.460
	Std Dev	0.042	0.961	0.962



3500.3_ICC_DOMINANT_VCC

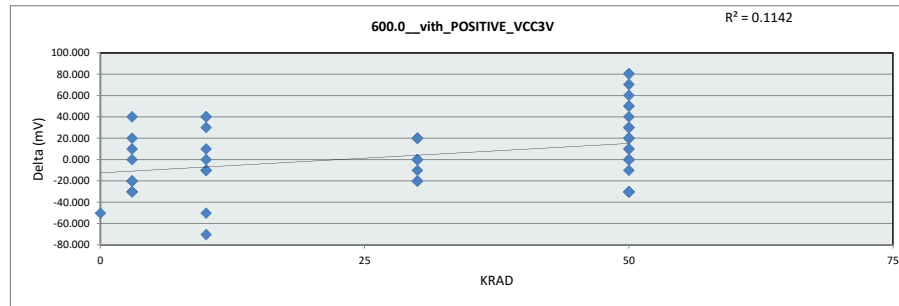
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	5.95 mA
Min Limit	0 mA

	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.649	3.582	3.554	3.618	3.567
Average	3.649	3.669	3.650	3.878	5.259
Max	3.649	3.733	3.721	4.183	6.096
UL	5.950	5.950	5.950	5.950	5.950

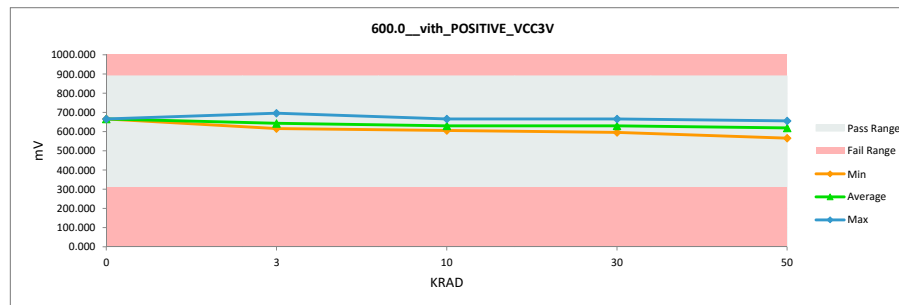


TID Report
TID_REPORT_HVD233_HKX_HDR

600.0_vith_POSITIVE_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mV	mV		
Max Limit	890	890		
Min Limit	310	310		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	615.578	665.829	-50.251
3	1	665.829	695.980	-30.151
3	2	655.779	615.578	40.201
3	3	635.678	655.779	-20.101
3	6	635.678	615.578	20.100
3	11	615.578	635.678	-20.100
3	UB14	595.477	625.628	-30.151
3	UB16	625.628	645.729	-20.101
3	UB18	625.628	625.628	0.000
3	UB19	625.628	655.779	-30.151
3	UB22	665.829	655.779	10.050
10	23	635.678	625.628	10.050
10	24	625.628	635.678	-10.050
10	25	665.829	625.628	40.201
10	28	595.477	605.528	-10.051
10	30	635.678	635.678	0.000
10	UB33	595.477	665.829	-70.352
10	UB35	595.477	645.729	-50.252
10	UB36	645.729	605.528	40.201
10	UB39	635.678	645.729	-10.051
10	UB40	635.678	605.528	30.150
30	43	645.729	665.829	-20.100
30	44	635.678	635.678	0.000
30	48	655.779	635.678	20.101
30	50	645.729	625.628	20.101
30	52	615.578	635.678	-20.100
30	UB96	605.528	615.578	-10.050
30	UB98	615.578	615.578	0.000
30	UB99	615.578	635.678	-20.100
30	UB101	595.477	595.477	0.000
30	UB102	655.779	635.678	20.101
50	105	655.779	605.528	50.251
50	108	615.578	605.528	10.050
50	107	595.477	625.628	-30.151
50	111	635.678	615.578	20.100
50	113	615.578	615.578	0.000
50	114	625.628	655.779	-30.151
50	115	615.578	585.427	30.151
50	119	695.980	635.678	60.302
50	118	615.578	595.477	20.101
50	121	655.779	625.628	30.151
50	124	685.929	615.578	70.351
50	125	645.729	615.578	30.151
50	128	615.578	645.729	-30.151
50	130	625.628	625.628	0.000
50	131	625.628	615.578	10.050
50	133	635.678	615.578	20.100
50	134	595.477	625.628	-30.151
50	135	625.628	655.779	-30.151
50	137	665.829	585.427	80.402
50	298	645.729	595.477	50.252
50	299	645.729	565.327	80.402
50	UB293	615.578	645.729	-30.151
50	UB294	645.729	645.729	0.000
50	UB295	655.779	615.578	40.201
50	UB296	615.578	625.628	-10.050
50	UB297	625.628	625.628	0.000
	Max	695.980	695.980	80.402
	Average	631.799	627.568	4.232
	Min	595.477	565.327	-70.352
	Std Dev	23.165	23.218	32.729

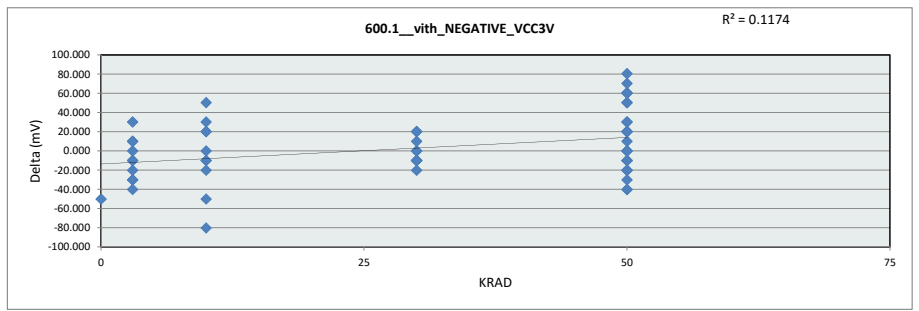


600.0_vith_POSITIVE_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	890	mV			
Min Limit	310	mV			
KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	665.829	615.578	605.528	595.477	565.327
Average	665.829	642.714	629.648	629.648	618.670
Max	665.829	695.980	665.829	665.829	655.779
UL	890.000	890.000	890.000	890.000	890.000

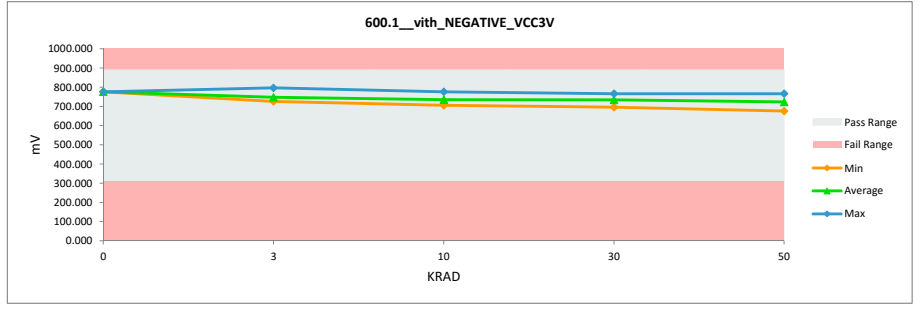


TID Report
TID_REPORT_HVD233_HKX_HDR

600.1_vith_NEGATIVE_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mV	mV		
Max Limit	890	890		
Min Limit	310	310		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	726.131	776.382	-50.251
3	1	766.332	796.482	-30.150
3	2	756.282	726.131	30.151
3	3	746.231	756.282	-10.051
3	6	736.181	726.131	10.050
3	11	726.131	746.231	-20.100
3	UB14	695.980	726.131	-30.151
3	UB16	736.181	746.231	-10.050
3	UB18	726.131	726.131	0.000
3	UB19	726.131	766.332	-40.201
3	UB22	766.332	756.282	10.050
10	23	746.231	726.131	20.100
10	24	726.131	746.231	-20.100
10	25	776.382	726.131	50.251
10	28	706.030	706.030	0.000
10	30	736.181	746.231	-10.050
10	UB33	695.980	776.382	-80.402
10	UB35	695.980	746.231	-50.251
10	UB36	746.231	716.081	30.150
10	UB39	736.181	746.231	-10.050
10	UB40	736.181	716.081	20.100
30	43	756.282	766.332	-10.050
30	44	736.181	736.181	0.000
30	48	756.282	746.231	10.051
30	50	746.231	726.131	20.100
30	52	726.131	746.231	-20.100
30	UB96	716.081	726.131	-10.050
30	UB98	716.081	726.131	-10.050
30	UB99	726.131	736.181	-10.050
30	UB101	695.980	695.980	0.000
30	UB102	756.282	736.181	20.101
50	105	766.332	706.030	60.302
50	108	726.131	716.081	10.050
50	107	706.030	726.131	-20.101
50	111	736.181	716.081	20.100
50	113	716.081	716.081	0.000
50	114	726.131	756.282	-30.151
50	115	716.081	685.929	30.152
50	119	796.482	736.181	60.301
50	118	716.081	695.980	20.101
50	121	756.282	726.131	30.151
50	124	786.432	716.081	70.351
50	125	746.231	726.131	20.100
50	128	726.131	746.231	-20.100
50	130	726.131	736.181	-10.050
50	131	726.131	726.131	0.000
50	133	736.181	716.081	20.100
50	134	706.030	726.131	-20.101
50	135	726.131	766.332	-40.201
50	137	756.282	695.980	60.302
50	298	756.282	706.030	50.252
50	299	756.282	675.879	80.403
50	UB293	716.081	756.282	-40.201
50	UB294	746.231	756.282	-10.051
50	UB295	766.332	716.081	50.251
50	UB296	726.131	736.181	-10.050
50	UB297	726.131	726.131	0.000
	Max	796.482	796.482	80.403
	Average	735.652	732.478	3.174
	Min	695.980	675.879	-80.402
	Std Dev	22.507	23.233	32.520



600.1_vith_NEGATIVE_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	890	mV			
Min Limit	310	mV			
KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	776.382	726.131	706.030	695.980	675.879
Average	776.382	747.236	735.176	734.171	723.425
Max	776.382	796.482	776.382	766.332	766.332
UL	890.000	890.000	890.000	890.000	890.000

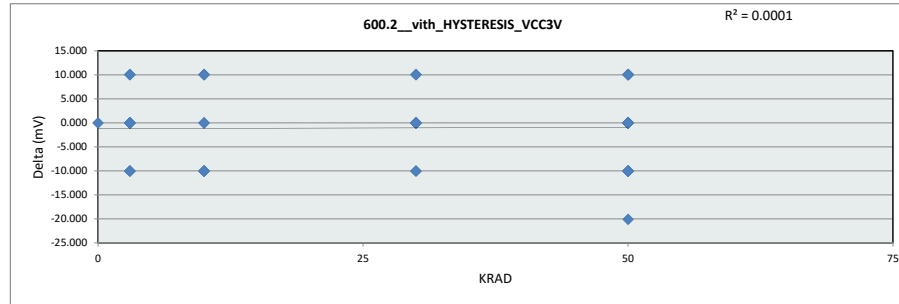


TID Report
TID_REPORT_HVD233_HKX_HDR

600.2_vith_HYSTERESIS_VCC3

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	200	200
Min Limit	40	40

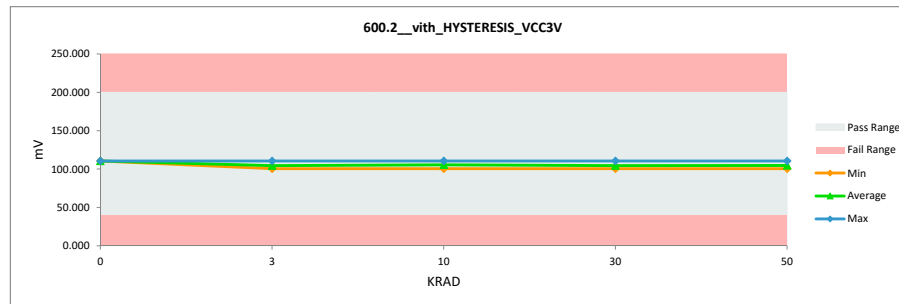
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	110.553	110.553	0.000
3	1	100.503	100.503	0.000
3	2	100.503	110.553	-10.050
3	3	110.553	100.503	10.050
3	6	100.502	110.553	-10.051
3	11	110.553	110.553	0.000
3	UB14	100.502	100.502	0.000
3	UB16	110.553	100.503	10.050
3	UB18	100.502	100.502	0.000
3	UB19	100.502	110.553	-10.051
3	UB22	100.503	100.503	0.000
10	23	110.553	100.502	10.051
10	24	100.502	110.553	-10.051
10	25	110.553	100.502	10.051
10	28	110.553	100.502	10.051
10	30	100.502	110.553	-10.051
10	UB33	100.502	110.553	-10.051
10	UB35	100.502	100.503	-0.001
10	UB36	100.503	110.553	-10.050
10	UB39	100.502	100.503	-0.001
10	UB40	100.502	110.553	-10.051
30	43	110.553	100.503	10.050
30	44	100.502	100.502	0.000
30	48	100.503	110.553	-10.050
30	50	100.503	100.502	0.001
30	52	110.553	110.553	0.000
30	UB96	110.553	110.553	0.000
30	UB98	100.503	110.553	-10.050
30	UB99	110.553	100.502	10.051
30	UB101	100.502	100.502	0.000
30	UB102	100.503	100.502	0.001
50	105	110.553	100.502	10.051
50	108	110.553	110.553	0.000
50	107	110.553	100.502	10.051
50	111	100.502	100.503	-0.001
50	113	100.503	100.503	0.000
50	114	100.502	100.503	-0.001
50	115	100.503	100.502	0.001
50	119	100.503	100.502	0.001
50	118	100.503	100.502	0.001
50	121	100.503	100.502	0.001
50	124	100.503	100.503	0.000
50	125	100.503	110.553	-10.050
50	128	110.553	100.503	10.050
50	130	100.502	110.553	-10.051
50	131	100.502	110.553	-10.051
50	133	100.502	100.503	-0.001
50	134	110.553	100.502	10.051
50	135	100.502	110.553	-10.051
50	137	90.452	110.553	-20.101
50	298	110.553	110.553	0.000
50	299	110.553	110.553	0.000
50	UB293	100.503	110.553	-10.050
50	UB294	100.503	110.553	-10.050
50	UB295	110.553	100.503	10.050
50	UB296	110.553	110.553	0.000
50	UB297	100.502	100.502	0.000
	Max	110.553	110.553	10.051
	Average	103.853	104.911	-1.058
	Min	90.452	100.502	-20.101
	Std Dev	5.144	5.032	7.522



600.2_vith_HYSTERESIS_VCC3

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	200 mV
Min Limit	40 mV

KRAD	0	3	10	30	50
LL	40.000	40.000	40.000	40.000	40.000
Min	110.553	100.502	100.502	100.502	100.502
Average	110.553	104.523	105.528	104.523	104.755
Max	110.553	110.553	110.553	110.553	110.553
UL	200.000	200.000	200.000	200.000	200.000

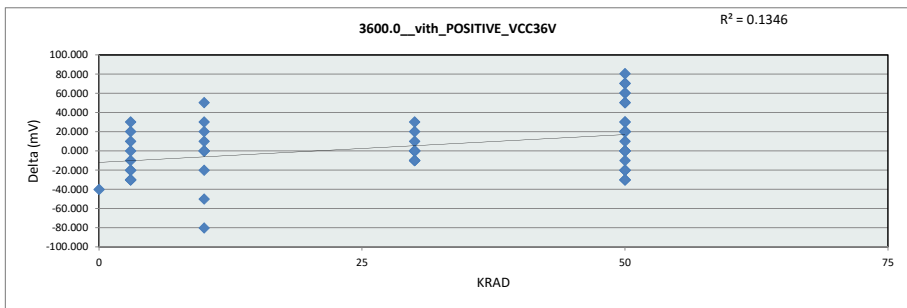


TID Report
TID_REPORT_HVD233_HKX_HDR

3600.0_vith_POSITIVE_VCC36

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

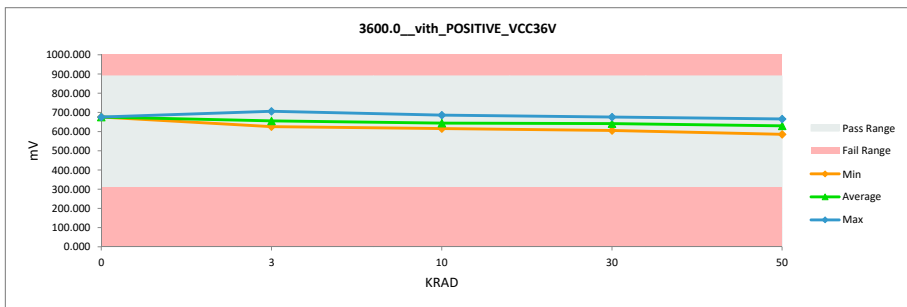
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	635.678	675.879	-40.201
3	1	675.879	706.030	-30.151
3	2	665.829	635.678	30.151
3	3	645.729	665.829	-20.100
3	6	645.729	625.628	20.101
3	11	635.678	655.779	-20.101
3	UB14	605.528	635.678	-30.150
3	UB16	645.729	655.779	-10.050
3	UB18	635.678	635.678	0.000
3	UB19	645.729	675.879	-30.150
3	UB22	675.879	665.829	10.050
10	23	645.729	635.678	10.051
10	24	635.678	655.779	-20.101
10	25	685.929	635.678	50.251
10	28	615.578	615.578	0.000
10	30	645.729	645.729	0.000
10	UB33	605.528	685.929	-80.401
10	UB35	605.528	655.779	-50.251
10	UB36	655.779	625.628	30.151
10	UB39	655.779	655.779	0.000
10	UB40	645.729	625.628	20.101
30	43	665.829	675.879	-10.050
30	44	645.729	645.729	0.000
30	48	665.829	655.779	10.050
30	50	655.779	635.678	20.101
30	52	635.678	645.729	-10.051
30	UB96	625.628	625.628	0.000
30	UB98	635.678	635.678	0.000
30	UB99	635.678	645.729	-10.051
30	UB101	605.528	605.528	0.000
30	UB102	675.879	645.729	30.150
50	105	675.879	615.578	60.301
50	108	635.678	615.578	20.100
50	107	615.578	635.678	-20.100
50	111	645.729	625.628	20.101
50	113	625.628	625.628	0.000
50	114	635.678	665.829	-30.151
50	115	625.628	595.478	30.150
50	119	706.030	645.729	60.301
50	118	625.628	605.528	20.100
50	121	665.829	635.678	30.151
50	124	695.980	625.628	70.352
50	125	655.779	635.678	20.101
50	128	635.678	655.779	-20.101
50	130	635.678	645.729	-10.051
50	131	635.678	625.628	10.050
50	133	645.729	625.628	20.101
50	134	615.578	635.678	-20.100
50	135	635.678	665.829	-30.151
50	137	675.879	595.478	80.401
50	298	655.779	605.528	50.251
50	299	655.779	585.427	70.352
50	UB293	625.628	655.779	-30.151
50	UB294	655.779	655.779	0.000
50	UB295	675.879	625.628	50.251
50	UB296	635.678	635.678	0.000
50	UB297	635.678	635.678	0.000
	Max	706.030	706.030	80.401
	Average	645.376	639.734	5.642
	Min	605.528	585.427	-80.401
	Std Dev	22.470	23.173	31.783



3600.0_vith_POSITIVE_VCC36

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	890 mV
Min Limit	310 mV

	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	675.879	625.628	615.578	605.528	585.427
Average	675.879	655.779	643.719	641.709	629.880
Max	675.879	706.030	685.929	675.879	665.829
UL	890.000	890.000	890.000	890.000	890.000

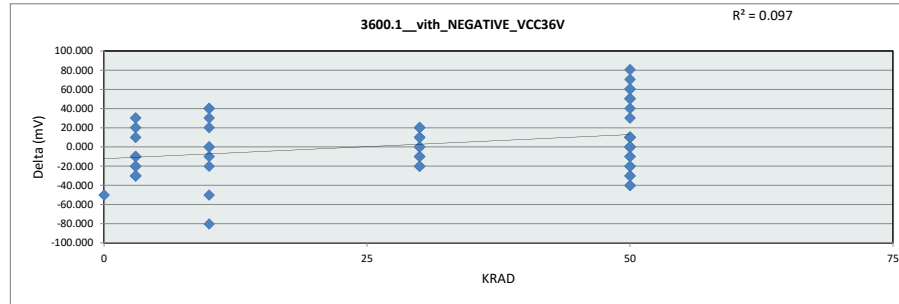


TID Report
TID_REPORT_HVD233_HKX_HDR

3600.1_vith_NEGATIVE_VCC36

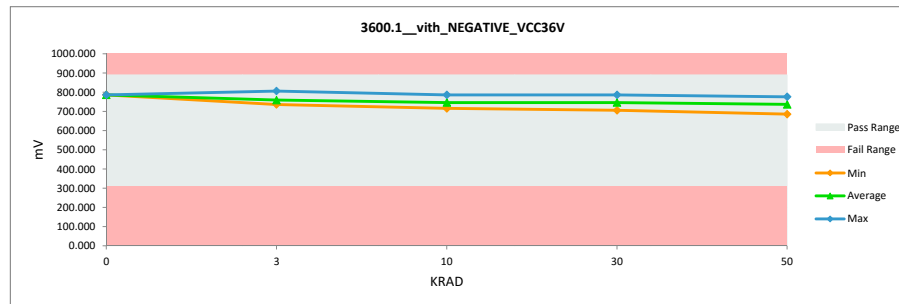
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	736.181	786.432	-50.251
3	1	776.382	806.533	-30.151
3	2	766.332	736.181	30.151
3	3	756.281	766.332	-10.051
3	6	746.231	736.181	10.050
3	11	736.181	756.281	-20.100
3	UB14	706.030	736.181	-30.151
3	UB16	746.231	766.332	-20.101
3	UB18	736.181	746.231	-10.050
3	UB19	746.231	776.382	-30.151
3	UB22	786.432	766.332	20.100
10	23	756.281	736.181	20.100
10	24	736.181	756.281	-20.100
10	25	786.432	746.231	40.201
10	28	716.080	716.080	0.000
10	30	746.231	756.281	-10.050
10	UB33	706.030	786.432	-80.402
10	UB35	706.030	756.281	-50.251
10	UB36	766.332	726.131	40.201
10	UB39	756.281	756.281	0.000
10	UB40	756.281	726.131	30.150
30	43	766.332	786.432	-20.100
30	44	746.231	746.231	0.000
30	48	766.332	756.281	10.051
30	50	756.281	736.181	20.100
30	52	736.181	756.281	-20.100
30	UB96	726.131	736.181	-10.050
30	UB98	736.181	736.181	0.000
30	UB99	736.181	746.231	-10.050
30	UB101	716.080	706.030	10.050
30	UB102	776.382	756.281	20.101
50	105	776.382	726.131	50.251
50	108	736.181	726.131	10.050
50	107	716.080	736.181	-20.101
50	111	746.231	736.181	10.050
50	113	726.131	726.131	0.000
50	114	736.181	776.382	-40.201
50	115	726.131	695.980	30.151
50	119	816.583	756.281	60.302
50	118	726.131	716.080	10.051
50	121	776.382	736.181	40.201
50	124	796.482	736.181	60.301
50	125	756.281	746.231	10.050
50	128	736.181	756.281	-20.100
50	130	746.231	746.231	0.000
50	131	736.181	736.181	0.000
50	133	746.231	736.181	10.050
50	134	716.080	746.231	-30.151
50	135	746.231	776.382	-30.151
50	137	776.382	706.030	70.352
50	298	766.332	716.080	50.252
50	299	766.332	685.929	80.403
50	UB293	726.131	766.332	-40.201
50	UB294	756.281	766.332	-10.051
50	UB295	776.382	726.131	50.251
50	UB296	736.181	746.231	-10.050
50	UB297	736.181	736.181	0.000
	Max	816.583	806.533	80.403
	Average	747.994	744.997	2.997
	Min	706.030	685.929	-80.402
	Std Dev	23.503	23.190	32.342



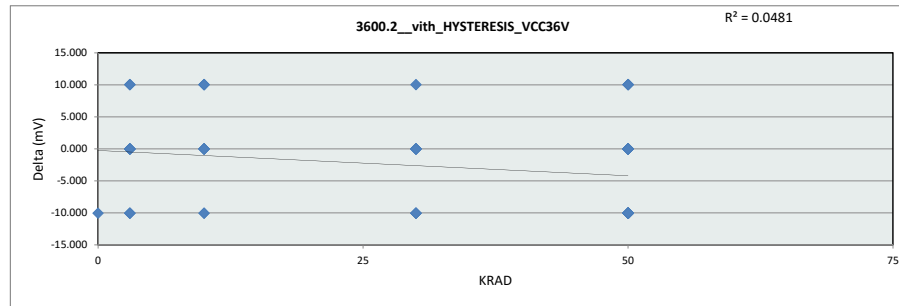
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	890	mV
Min Limit	310	mV

KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	786.432	736.181	716.080	706.030	685.929
Average	786.432	759.297	746.231	746.231	736.954
Max	786.432	806.533	786.432	786.432	776.382
UL	890.000	890.000	890.000	890.000	890.000

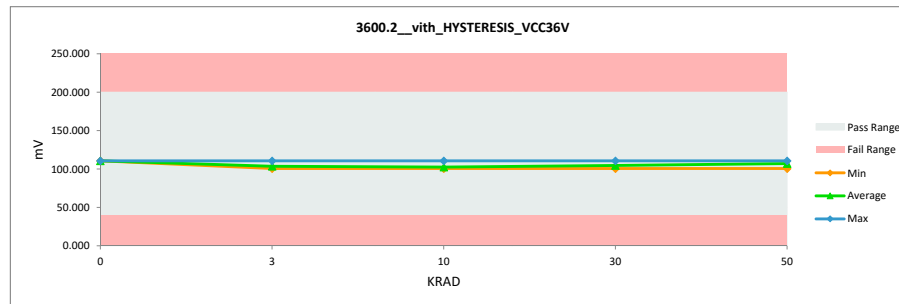


TID Report
TID_REPORT_HVD233_HKX_HDR

3600.2_vith_HYSTERESIS_VCC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mV	mV		
Max Limit	200	200		
Min Limit	40	40		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	100.502	110.553	-10.051
3	1	100.503	100.503	0.000
3	2	100.503	100.502	0.001
3	3	110.553	100.503	10.050
3	6	100.503	110.553	-10.050
3	11	100.502	100.503	-0.001
3	UB14	100.503	100.502	0.001
3	UB16	100.503	110.553	-10.050
3	UB18	100.502	110.553	-10.051
3	UB19	100.503	100.503	0.000
3	UB22	110.553	100.503	10.050
10	23	110.553	100.502	10.051
10	24	100.502	100.503	-0.001
10	25	100.503	110.553	-10.050
10	28	100.503	100.503	0.000
10	30	100.503	110.553	-10.050
10	UB33	100.503	100.503	0.000
10	UB35	100.503	100.503	0.000
10	UB36	110.553	100.502	10.051
10	UB39	100.503	100.503	0.000
10	UB40	110.553	100.502	10.051
30	43	100.503	110.553	-10.050
30	44	100.503	100.503	0.000
30	48	100.503	100.503	0.000
30	50	100.503	100.502	0.001
30	52	100.502	110.553	-10.051
30	UB96	100.502	110.553	-10.051
30	UB98	100.502	100.502	0.000
30	UB99	100.502	100.503	-0.001
30	UB101	110.553	100.503	10.050
30	UB102	100.503	110.553	-10.050
50	105	100.503	110.553	-10.050
50	108	100.502	110.553	-10.051
50	107	100.503	100.502	0.001
50	111	100.503	110.553	-10.050
50	113	100.502	100.502	0.000
50	114	100.502	110.553	-10.051
50	115	100.502	100.502	0.000
50	119	110.553	110.553	0.000
50	118	100.502	110.553	-10.051
50	121	110.553	100.502	10.051
50	124	100.503	110.553	-10.050
50	125	100.503	110.553	-10.050
50	128	100.502	100.503	-0.001
50	130	110.553	100.503	10.050
50	131	100.502	110.553	-10.051
50	133	100.503	110.553	-10.050
50	134	100.503	110.553	-10.050
50	135	110.553	110.553	0.000
50	137	100.503	110.553	-10.050
50	298	110.553	110.553	0.000
50	299	110.553	100.502	10.051
50	UB293	100.502	110.553	-10.051
50	UB294	100.503	110.553	-10.050
50	UB295	100.503	100.502	0.001
50	UB296	100.502	110.553	-10.051
50	UB297	100.502	100.502	0.000
	Max	110.553	110.553	10.051
	Average	102.618	105.263	-2.645
	Min	100.502	100.502	-10.051
	Std Dev	4.134	5.063	7.239



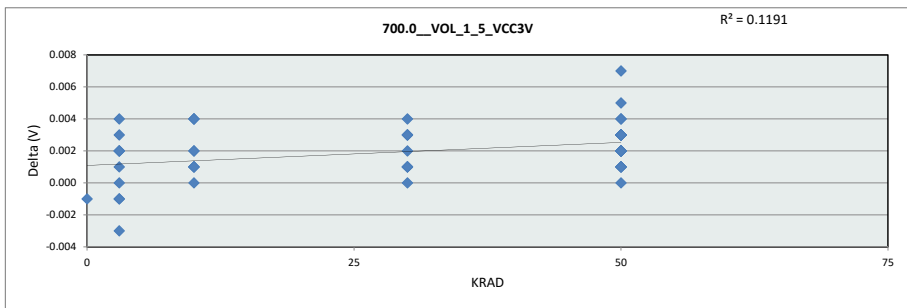
3600.2_vith_HYSTERESIS_VCC					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	200	mV			
Min Limit	40	mV			
KRAD	0	3	10	30	50
LL	40.000	40.000	40.000	40.000	40.000
Min	110.553	100.502	100.502	100.502	100.502
Average	110.553	103.518	102.513	104.523	107.074
Max	110.553	110.553	110.553	110.553	110.553
UL	200.000	200.000	200.000	200.000	200.000



TID Report
TID_REPORT_HVD233_HKX_HDR

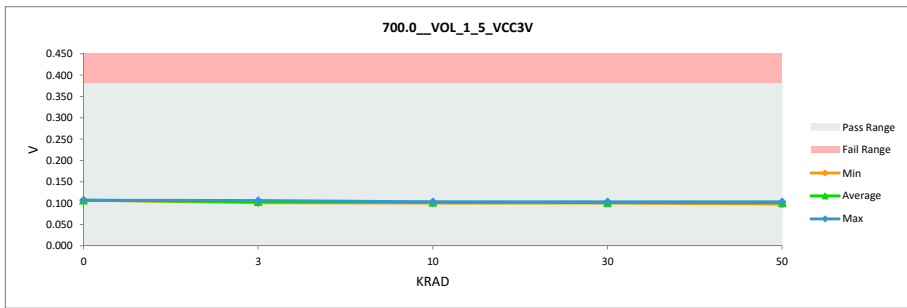
700.0_VOL_1_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.106	0.107	-0.001
3	1	0.105	0.103	0.002
3	2	0.103	0.101	0.002
3	3	0.106	0.102	0.004
3	6	0.104	0.105	-0.001
3	11	0.104	0.104	0.000
3	UB14	0.104	0.101	0.003
3	UB16	0.103	0.106	-0.003
3	UB18	0.104	0.103	0.001
3	UB19	0.104	0.105	-0.001
3	UB22	0.105	0.103	0.002
10	23	0.106	0.102	0.004
10	24	0.104	0.100	0.004
10	25	0.104	0.103	0.001
10	28	0.102	0.102	0.000
10	30	0.104	0.103	0.001
10	UB33	0.104	0.103	0.001
10	UB35	0.103	0.102	0.001
10	UB36	0.104	0.100	0.004
10	UB39	0.104	0.102	0.002
10	UB40	0.105	0.103	0.002
30	43	0.102	0.102	0.000
30	44	0.102	0.101	0.001
30	48	0.103	0.101	0.002
30	50	0.104	0.101	0.003
30	52	0.106	0.103	0.003
30	UB96	0.102	0.101	0.001
30	UB98	0.102	0.101	0.001
30	UB99	0.104	0.100	0.004
30	UB101	0.102	0.101	0.001
30	UB102	0.103	0.100	0.003
50	105	0.107	0.100	0.007
50	108	0.104	0.102	0.002
50	107	0.101	0.101	0.000
50	111	0.104	0.103	0.001
50	113	0.103	0.100	0.003
50	114	0.103	0.100	0.003
50	115	0.103	0.101	0.002
50	119	0.104	0.101	0.003
50	118	0.103	0.100	0.003
50	121	0.102	0.101	0.001
50	124	0.103	0.101	0.002
50	125	0.103	0.102	0.001
50	128	0.103	0.101	0.002
50	130	0.103	0.101	0.002
50	131	0.104	0.102	0.002
50	133	0.104	0.100	0.004
50	134	0.103	0.101	0.002
50	135	0.103	0.102	0.001
50	137	0.102	0.101	0.001
50	298	0.104	0.101	0.003
50	299	0.103	0.101	0.002
50	UB293	0.103	0.100	0.003
50	UB294	0.105	0.102	0.003
50	UB295	0.104	0.100	0.004
50	UB296	0.102	0.099	0.003
50	UB297	0.103	0.098	0.005
	Max	0.107	0.107	0.007
	Average	0.104	0.102	0.002
	Min	0.101	0.098	-0.003
	Std Dev	0.001	0.002	0.002



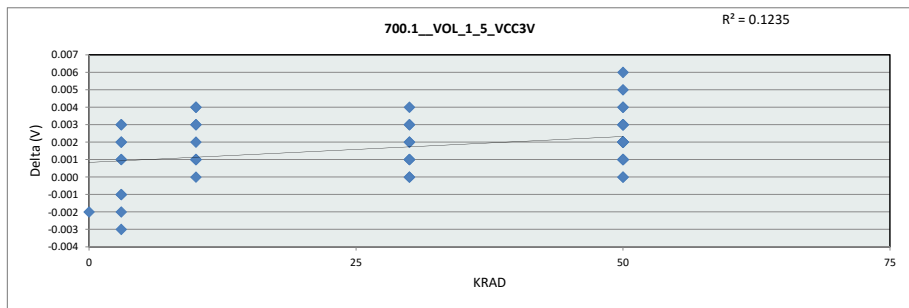
700.0_VOL_1_5_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	0.38	V
Min Limit	0	V

	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		0.107	0.101	0.100	0.100	0.098
Average		0.107	0.103	0.102	0.101	0.101
Max		0.107	0.106	0.103	0.103	0.103
UL		0.380	0.380	0.380	0.380	0.380

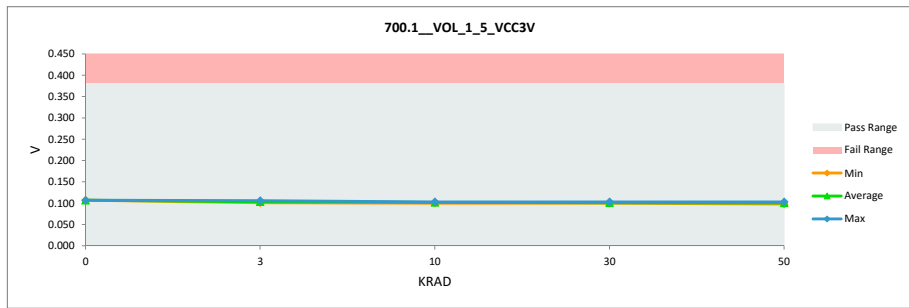


TID Report
TID_REPORT_HVD233_HKX_HDR

700.1_VOL_1_5_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	0.38	0.38		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.105	0.107	-0.002
3	1	0.104	0.103	0.001
3	2	0.103	0.101	0.002
3	3	0.105	0.102	0.003
3	6	0.104	0.105	-0.001
3	11	0.103	0.104	-0.001
3	UB14	0.104	0.101	0.003
3	UB16	0.103	0.106	-0.003
3	UB18	0.104	0.103	0.001
3	UB19	0.103	0.105	-0.002
3	UB22	0.105	0.103	0.002
10	23	0.105	0.102	0.003
10	24	0.104	0.100	0.004
10	25	0.104	0.103	0.001
10	28	0.102	0.102	0.000
10	30	0.104	0.103	0.001
10	UB33	0.104	0.102	0.002
10	UB35	0.103	0.102	0.001
10	UB36	0.104	0.100	0.004
10	UB39	0.103	0.102	0.001
10	UB40	0.105	0.102	0.003
30	43	0.102	0.102	0.000
30	44	0.102	0.101	0.001
30	48	0.103	0.101	0.002
30	50	0.103	0.101	0.002
30	52	0.106	0.103	0.003
30	UB96	0.102	0.101	0.001
30	UB98	0.102	0.101	0.001
30	UB99	0.104	0.100	0.004
30	UB101	0.101	0.101	0.000
30	UB102	0.103	0.100	0.003
50	105	0.106	0.100	0.006
50	108	0.103	0.102	0.001
50	107	0.101	0.101	0.000
50	111	0.104	0.103	0.001
50	113	0.102	0.100	0.002
50	114	0.103	0.100	0.003
50	115	0.103	0.101	0.002
50	119	0.104	0.101	0.003
50	118	0.103	0.100	0.003
50	121	0.102	0.101	0.001
50	124	0.102	0.101	0.001
50	125	0.102	0.102	0.000
50	128	0.103	0.101	0.002
50	130	0.103	0.101	0.002
50	131	0.104	0.102	0.002
50	133	0.104	0.100	0.004
50	134	0.103	0.101	0.002
50	135	0.103	0.102	0.001
50	137	0.102	0.100	0.002
50	298	0.103	0.101	0.002
50	299	0.103	0.101	0.002
50	UB293	0.103	0.100	0.003
50	UB294	0.104	0.102	0.002
50	UB295	0.104	0.100	0.004
50	UB296	0.102	0.099	0.003
50	UB297	0.103	0.098	0.005
	Max	0.106	0.107	0.006
	Average	0.103	0.102	0.002
	Min	0.101	0.098	-0.003
	Std Dev	0.001	0.002	0.002



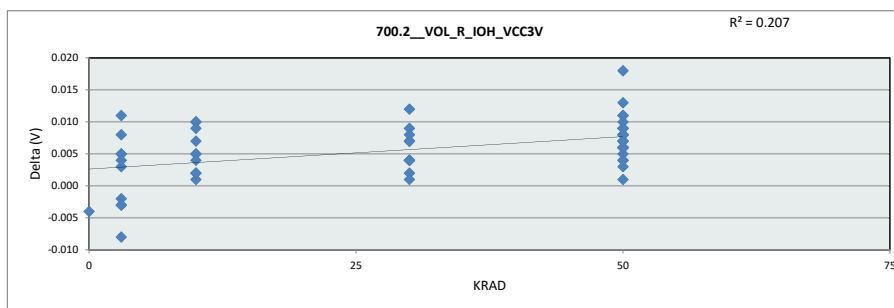
700.1_VOL_1_5_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.38	V			
Min Limit	0	V			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.107	0.101	0.100	0.100	0.098
Average	0.107	0.103	0.102	0.101	0.101
Max	0.107	0.106	0.103	0.103	0.103
UL	0.380	0.380	0.380	0.380	0.380



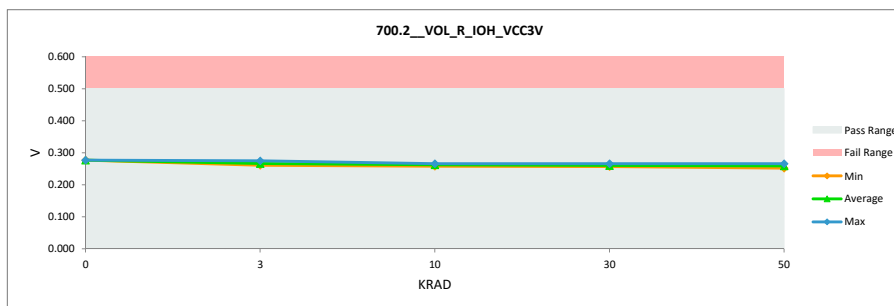
TID Report

TID_REPORT_HVD233_HKX_HDR

700.2_VOL_R_IOH_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	0.5	0.5		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.273	0.277	-0.004
3	1	0.270	0.265	0.005
3	2	0.266	0.261	0.005
3	3	0.273	0.262	0.011
3	6	0.268	0.271	-0.003
3	11	0.267	0.269	-0.002
3	UB14	0.269	0.261	0.008
3	UB16	0.267	0.275	-0.008
3	UB18	0.268	0.265	0.003
3	UB19	0.267	0.270	-0.003
3	UB22	0.271	0.267	0.004
10	23	0.273	0.263	0.010
10	24	0.267	0.258	0.009
10	25	0.270	0.265	0.005
10	28	0.263	0.262	0.001
10	30	0.268	0.266	0.002
10	UB33	0.269	0.264	0.005
10	UB35	0.265	0.263	0.002
10	UB36	0.268	0.258	0.010
10	UB39	0.267	0.263	0.004
10	UB40	0.271	0.264	0.007
30	43	0.263	0.261	0.002
30	44	0.264	0.260	0.004
30	48	0.267	0.260	0.007
30	50	0.267	0.259	0.008
30	52	0.275	0.266	0.009
30	UB96	0.264	0.260	0.004
30	UB98	0.264	0.260	0.004
30	UB99	0.269	0.257	0.012
30	UB101	0.262	0.261	0.001
30	UB102	0.265	0.258	0.007
50	105	0.275	0.257	0.018
50	108	0.267	0.261	0.006
50	107	0.260	0.259	0.001
50	111	0.269	0.266	0.003
50	113	0.265	0.257	0.008
50	114	0.265	0.258	0.007
50	115	0.266	0.260	0.006
50	119	0.268	0.258	0.010
50	118	0.266	0.257	0.009
50	121	0.264	0.258	0.006
50	124	0.265	0.260	0.005
50	125	0.265	0.261	0.004
50	128	0.266	0.259	0.007
50	130	0.266	0.258	0.008
50	131	0.268	0.262	0.006
50	133	0.268	0.257	0.011
50	134	0.266	0.260	0.006
50	135	0.266	0.262	0.004
50	137	0.264	0.258	0.006
50	298	0.267	0.258	0.009
50	299	0.266	0.258	0.008
50	UB293	0.265	0.257	0.008
50	UB294	0.270	0.263	0.007
50	UB295	0.267	0.258	0.009
50	UB296	0.264	0.253	0.011
50	UB297	0.265	0.252	0.013
	Max	0.275	0.277	0.018
	Average	0.267	0.261	0.006
	Min	0.260	0.252	-0.008
	Std Dev	0.003	0.005	0.004

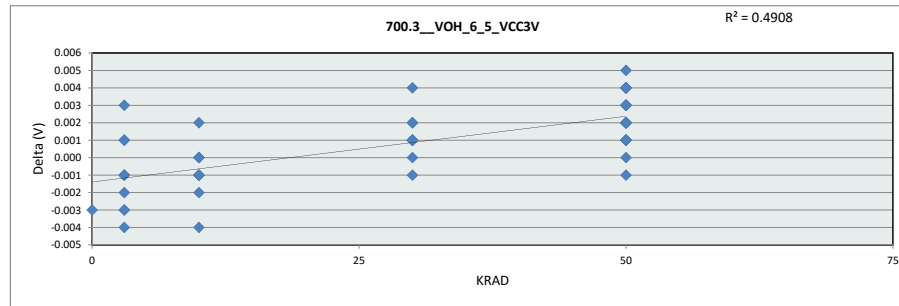


700.2_VOL_R_IOH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.5	V			
Min Limit	0	V			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.277	0.261	0.258	0.257	0.252
Average	0.277	0.267	0.263	0.260	0.259
Max	0.277	0.275	0.266	0.266	0.266
UL	0.500	0.500	0.500	0.500	0.500

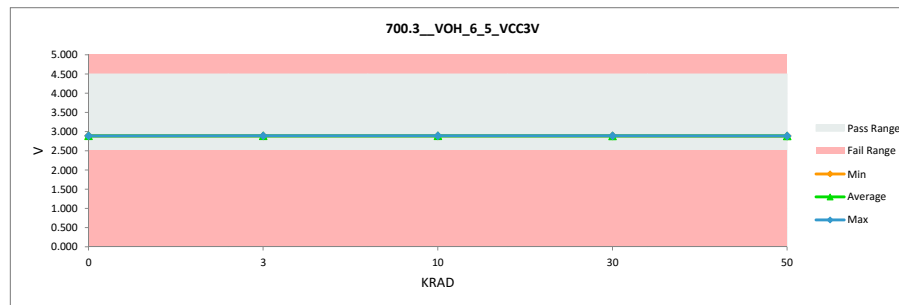


TID Report
TID_REPORT_HVD233_HKX_HDR

700.3_VOH_6_5_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	4.5	4.5		
Min Limit	2.5	2.5		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.887	2.890	-0.003
3	1	2.888	2.891	-0.003
3	2	2.889	2.893	-0.004
3	3	2.888	2.889	-0.001
3	6	2.888	2.889	-0.001
3	11	2.889	2.888	0.001
3	UB14	2.889	2.892	-0.003
3	UB16	2.891	2.888	0.003
3	UB18	2.890	2.891	-0.001
3	UB19	2.889	2.888	0.001
3	UB22	2.888	2.890	-0.002
10	23	2.888	2.889	-0.001
10	24	2.891	2.891	0.000
10	25	2.888	2.889	-0.001
10	28	2.891	2.889	0.002
10	30	2.888	2.889	-0.001
10	UB33	2.890	2.891	-0.001
10	UB35	2.891	2.891	0.000
10	UB36	2.888	2.892	-0.004
10	UB39	2.889	2.889	0.000
10	UB40	2.888	2.890	-0.002
30	43	2.890	2.888	0.002
30	44	2.891	2.891	0.000
30	48	2.890	2.888	0.002
30	50	2.889	2.888	0.001
30	52	2.888	2.887	0.001
30	UB96	2.891	2.887	0.004
30	UB98	2.889	2.888	0.001
30	UB99	2.888	2.889	-0.001
30	UB101	2.890	2.889	0.001
30	UB102	2.890	2.889	0.001
50	105	2.890	2.888	0.002
50	108	2.889	2.888	0.001
50	107	2.891	2.887	0.004
50	111	2.889	2.886	0.003
50	113	2.889	2.887	0.002
50	114	2.889	2.889	0.000
50	115	2.889	2.887	0.002
50	119	2.889	2.887	0.002
50	118	2.890	2.889	0.001
50	121	2.890	2.887	0.003
50	124	2.890	2.886	0.004
50	125	2.889	2.885	0.004
50	128	2.890	2.888	0.002
50	130	2.890	2.888	0.002
50	131	2.889	2.886	0.003
50	133	2.888	2.887	0.001
50	134	2.890	2.886	0.004
50	135	2.891	2.886	0.005
50	137	2.891	2.889	0.002
50	298	2.890	2.887	0.003
50	299	2.888	2.889	-0.001
50	UB293	2.889	2.888	0.001
50	UB294	2.889	2.887	0.002
50	UB295	2.890	2.886	0.004
50	UB296	2.890	2.887	0.003
50	UB297	2.889	2.888	0.001
	Max	2.891	2.893	0.005
	Average	2.889	2.888	0.001
	Min	2.887	2.885	-0.004
	Std Dev	0.001	0.002	0.002

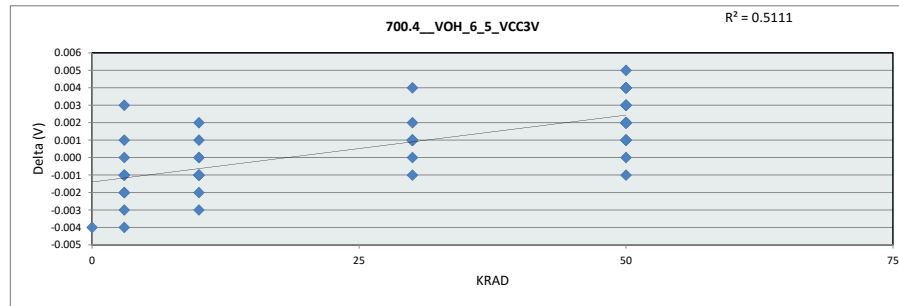


700.3_VOH_6_5_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	4.5	V			
Min Limit	2.5	V			
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	2.890	2.888	2.889	2.887	2.885
Average	2.890	2.890	2.890	2.888	2.887
Max	2.890	2.893	2.892	2.891	2.889
UL	4.500	4.500	4.500	4.500	4.500

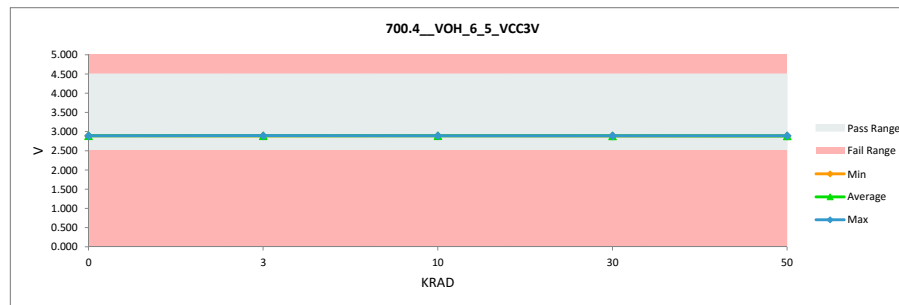


TID Report
TID_REPORT_HVD233_HKX_HDR

700.4_VOH_6_5_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	4.5	4.5		
Min Limit	2.5	2.5		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.887	2.891	-0.004
3	1	2.889	2.891	-0.002
3	2	2.889	2.893	-0.004
3	3	2.888	2.889	-0.001
3	6	2.888	2.889	-0.001
3	11	2.890	2.889	0.001
3	UB14	2.889	2.892	-0.003
3	UB16	2.891	2.888	0.003
3	UB18	2.890	2.891	-0.001
3	UB19	2.889	2.889	0.000
3	UB22	2.888	2.890	-0.002
10	23	2.888	2.889	-0.001
10	24	2.891	2.891	0.000
10	25	2.888	2.889	-0.001
10	28	2.891	2.889	0.002
10	30	2.888	2.889	-0.001
10	UB33	2.890	2.891	-0.001
10	UB35	2.891	2.891	0.000
10	UB36	2.889	2.892	-0.003
10	UB39	2.890	2.889	0.001
10	UB40	2.888	2.890	-0.002
30	43	2.890	2.888	0.002
30	44	2.891	2.891	0.000
30	48	2.890	2.889	0.001
30	50	2.889	2.888	0.001
30	52	2.888	2.887	0.001
30	UB96	2.891	2.887	0.004
30	UB98	2.889	2.888	0.001
30	UB99	2.888	2.889	-0.001
30	UB101	2.890	2.889	0.001
30	UB102	2.890	2.889	0.001
50	105	2.890	2.888	0.002
50	108	2.890	2.888	0.002
50	107	2.891	2.887	0.004
50	111	2.889	2.886	0.003
50	113	2.889	2.887	0.002
50	114	2.889	2.889	0.000
50	115	2.889	2.887	0.002
50	119	2.890	2.887	0.003
50	118	2.890	2.889	0.001
50	121	2.890	2.887	0.003
50	124	2.890	2.886	0.004
50	125	2.889	2.885	0.004
50	128	2.890	2.888	0.002
50	130	2.890	2.888	0.002
50	131	2.890	2.886	0.004
50	133	2.889	2.887	0.002
50	134	2.890	2.886	0.004
50	135	2.891	2.886	0.005
50	137	2.891	2.890	0.001
50	298	2.891	2.887	0.004
50	299	2.888	2.889	-0.001
50	UB293	2.889	2.888	0.001
50	UB294	2.889	2.887	0.002
50	UB295	2.890	2.887	0.003
50	UB296	2.890	2.888	0.002
50	UB297	2.889	2.888	0.001
	Max	2.891	2.893	0.005
	Average	2.889	2.889	0.001
	Min	2.887	2.885	-0.004
	Std Dev	0.001	0.002	0.002

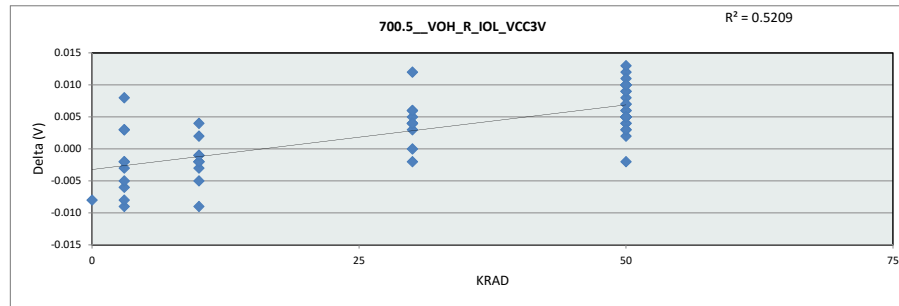


700.4_VOH_6_5_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	4.5	V			
Min Limit	2.5	V			
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	2.891	2.888	2.889	2.887	2.885
Average	2.891	2.890	2.890	2.889	2.887
Max	2.891	2.893	2.892	2.891	2.890
UL	4.500	4.500	4.500	4.500	4.500

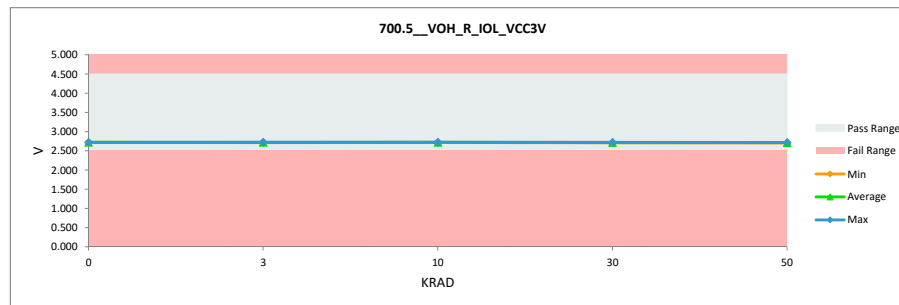


TID Report
TID_REPORT_HVD233_HKX_HDR

700.5_VOH_R_IOL_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	4.5	4.5		
Min Limit	2.5	2.5		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.712	2.720	-0.008
3	1	2.715	2.721	-0.006
3	2	2.718	2.727	-0.009
3	3	2.714	2.717	-0.003
3	6	2.715	2.717	-0.002
3	11	2.718	2.715	0.003
3	UB14	2.716	2.724	-0.008
3	UB16	2.721	2.713	0.008
3	UB18	2.719	2.721	-0.002
3	UB19	2.718	2.715	0.003
3	UB22	2.714	2.719	-0.005
10	23	2.714	2.716	-0.002
10	24	2.721	2.722	-0.001
10	25	2.714	2.717	-0.003
10	28	2.721	2.717	0.004
10	30	2.715	2.717	-0.002
10	UB33	2.719	2.721	-0.002
10	UB35	2.721	2.722	-0.001
10	UB36	2.715	2.724	-0.009
10	UB39	2.718	2.716	0.002
10	UB40	2.714	2.719	-0.005
30	43	2.720	2.714	0.006
30	44	2.721	2.721	0.000
30	48	2.719	2.715	0.004
30	50	2.717	2.714	0.003
30	52	2.715	2.710	0.005
30	UB96	2.723	2.711	0.012
30	UB98	2.718	2.712	0.006
30	UB99	2.714	2.716	-0.002
30	UB101	2.720	2.716	0.004
30	UB102	2.719	2.715	0.004
50	105	2.720	2.715	0.005
50	108	2.718	2.713	0.005
50	107	2.722	2.710	0.012
50	111	2.716	2.708	0.008
50	113	2.716	2.712	0.004
50	114	2.717	2.715	0.002
50	115	2.718	2.711	0.007
50	119	2.718	2.712	0.006
50	118	2.720	2.717	0.003
50	121	2.720	2.711	0.009
50	124	2.719	2.709	0.010
50	125	2.716	2.706	0.010
50	128	2.720	2.714	0.006
50	130	2.720	2.715	0.005
50	131	2.718	2.708	0.010
50	133	2.715	2.711	0.004
50	134	2.719	2.708	0.011
50	135	2.721	2.708	0.013
50	137	2.721	2.718	0.003
50	298	2.721	2.712	0.009
50	299	2.714	2.716	-0.002
50	UB293	2.718	2.713	0.005
50	UB294	2.716	2.711	0.005
50	UB295	2.719	2.709	0.010
50	UB296	2.719	2.712	0.007
50	UB297	2.717	2.712	0.005
	Max	2.723	2.727	0.013
	Average	2.718	2.715	0.003
	Min	2.712	2.706	-0.009
	Std Dev	0.003	0.005	0.006



700.5_VOH_R_IOL_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	4.5	V			
Min Limit	2.5	V			
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	2.720	2.713	2.716	2.710	2.706
Average	2.720	2.719	2.719	2.714	2.712
Max	2.720	2.727	2.724	2.721	2.718
UL	4.500	4.500	4.500	4.500	4.500

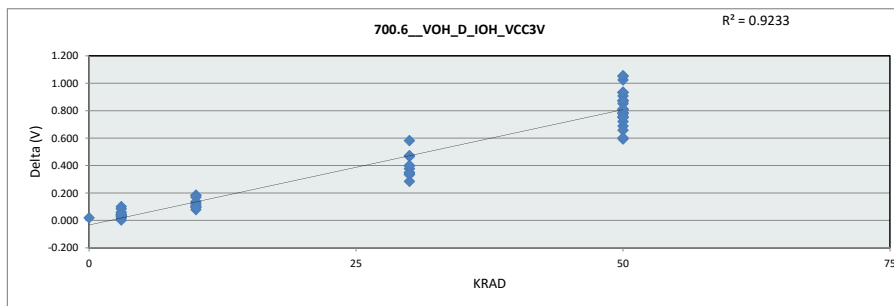


TID Report

TID_REPORT_HVD233_HKX_HDR

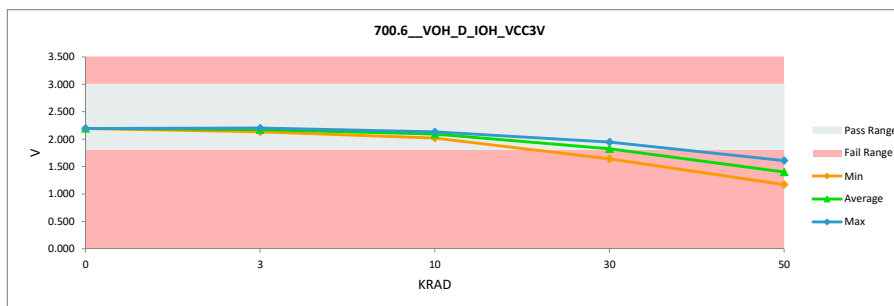
700.6_VOH_D_IOH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3	3
Min Limit	1.8	1.8

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.214	2.195	0.019
3	1	2.202	2.170	0.032
3	2	2.215	2.179	0.036
3	3	2.205	2.202	0.003
3	6	2.234	2.133	0.101
3	11	2.220	2.176	0.044
3	UB14	2.215	2.190	0.025
3	UB16	2.228	2.168	0.060
3	UB18	2.221	2.203	0.018
3	UB19	2.233	2.148	0.085
3	UB22	2.232	2.187	0.045
10	23	2.205	2.021	0.184
10	24	2.223	2.039	0.184
10	25	2.228	2.058	0.170
10	28	2.213	2.111	0.102
10	30	2.231	2.104	0.127
10	UB33	2.223	2.110	0.113
10	UB35	2.237	2.100	0.137
10	UB36	2.221	2.125	0.096
10	UB39	2.211	2.132	0.079
10	UB40	2.217	2.122	0.095
30	43	2.224	1.641	0.583
30	44	2.235	1.858	0.377
30	48	2.210	1.876	0.334
30	50	2.238	1.887	0.351
30	52	2.208	1.741	0.467
30	UB96	2.220	1.747	0.473
30	UB98	2.232	1.947	0.285
30	UB99	2.239	1.841	0.398
30	UB101	2.235	1.890	0.345
30	UB102	2.226	1.825	0.401
50	105	2.182	1.588	0.594
50	108	2.235	1.546	0.689
50	107	2.229	1.204	1.025
50	111	2.224	1.172	1.052
50	113	2.223	1.564	0.659
50	114	2.220	1.312	0.908
50	115	2.237	1.361	0.876
50	119	2.216	1.457	0.759
50	118	2.236	1.361	0.875
50	121	2.218	1.467	0.751
50	124	2.229	1.449	0.780
50	125	2.209	1.429	0.780
50	128	2.224	1.290	0.934
50	130	2.238	1.304	0.934
50	131	2.232	1.450	0.782
50	133	2.236	1.384	0.852
50	134	2.238	1.304	0.934
50	135	2.228	1.173	1.055
50	137	2.225	1.503	0.722
50	298	2.204	1.335	0.869
50	299	2.212	1.609	0.603
50	UB293	2.228	1.440	0.788
50	UB294	2.236	1.423	0.813
50	UB295	2.221	1.414	0.807
50	UB296	2.236	1.423	0.813
50	UB297	2.228	1.477	0.751
	Max	2.239	2.203	1.055
	Average	2.223	1.747	0.477
	Min	2.182	1.172	0.003
	Std Dev	0.012	0.349	0.352



700.6_VOH_D_IOH_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	3	V
Min Limit	1.8	V

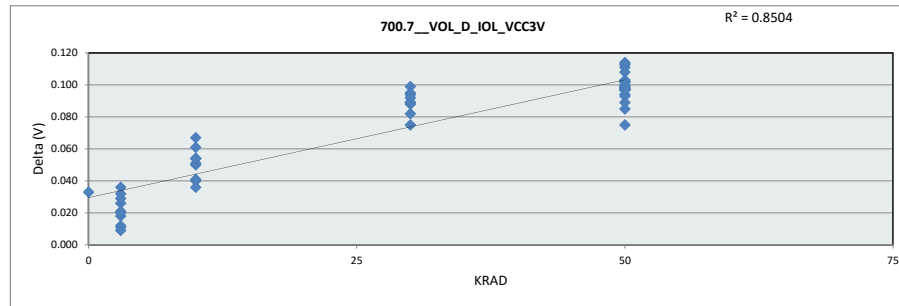
	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.195	2.133	2.021	1.641	1.172
Average	2.195	2.176	2.092	1.825	1.402
Max	2.195	2.203	2.132	1.947	1.609
UL	3.000	3.000	3.000	3.000	3.000



TID Report
TID_REPORT_HVD233_HKX_HDR

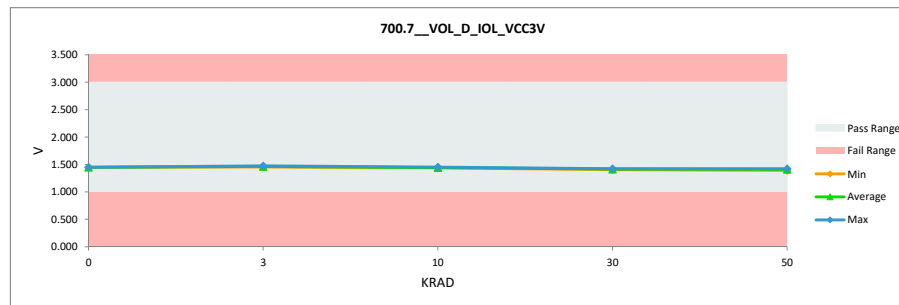
700.7_VOL_D_IOL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3	3
Min Limit	1	1

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.483	1.450	0.033
3	1	1.484	1.466	0.018
3	2	1.486	1.465	0.021
3	3	1.491	1.455	0.036
3	6	1.481	1.470	0.011
3	11	1.483	1.457	0.026
3	UB14	1.487	1.458	0.029
3	UB16	1.487	1.475	0.012
3	UB18	1.492	1.460	0.032
3	UB19	1.483	1.474	0.009
3	UB22	1.482	1.462	0.020
10	23	1.491	1.451	0.040
10	24	1.495	1.445	0.050
10	25	1.485	1.449	0.036
10	28	1.492	1.441	0.051
10	30	1.494	1.440	0.054
10	UB33	1.499	1.445	0.054
10	UB35	1.488	1.447	0.041
10	UB36	1.494	1.440	0.054
10	UB39	1.505	1.438	0.067
10	UB40	1.500	1.439	0.061
30	43	1.506	1.424	0.082
30	44	1.496	1.421	0.075
30	48	1.506	1.417	0.089
30	50	1.505	1.417	0.088
30	52	1.516	1.417	0.099
30	UB96	1.506	1.417	0.089
30	UB98	1.501	1.406	0.095
30	UB99	1.505	1.411	0.094
30	UB101	1.500	1.411	0.089
30	UB102	1.507	1.415	0.092
50	105	1.523	1.409	0.114
50	108	1.502	1.417	0.085
50	107	1.512	1.415	0.097
50	111	1.515	1.421	0.094
50	113	1.513	1.413	0.100
50	114	1.526	1.424	0.102
50	115	1.517	1.418	0.099
50	119	1.524	1.422	0.102
50	118	1.516	1.414	0.102
50	121	1.510	1.412	0.098
50	124	1.514	1.411	0.103
50	125	1.520	1.407	0.113
50	128	1.517	1.419	0.098
50	130	1.510	1.413	0.097
50	131	1.510	1.411	0.099
50	133	1.508	1.410	0.098
50	134	1.512	1.413	0.099
50	135	1.507	1.410	0.097
50	137	1.485	1.410	0.075
50	298	1.502	1.409	0.093
50	299	1.509	1.412	0.097
50	UB293	1.504	1.393	0.111
50	UB294	1.493	1.404	0.089
50	UB295	1.500	1.392	0.108
50	UB296	1.493	1.391	0.102
50	UB297	1.504	1.391	0.113
	Max	1.526	1.475	0.114
	Average	1.501	1.427	0.074
	Min	1.481	1.391	0.009
	Std Dev	0.012	0.023	0.032



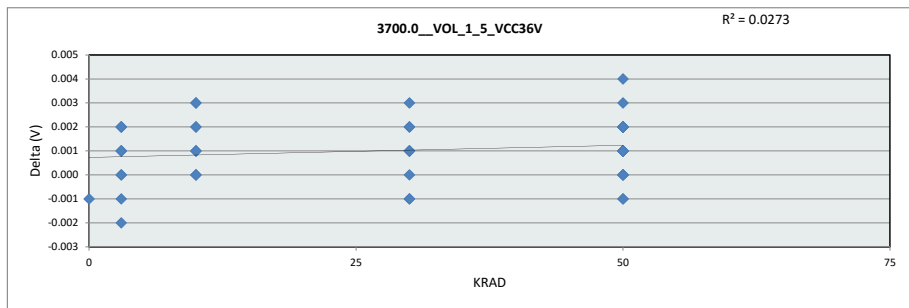
700.7_VOL_D_IOL_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	3	V
Min Limit	1	V

	KRAD	0	3	10	30	50
LL		1.000	1.000	1.000	1.000	1.000
Min		1.450	1.455	1.438	1.406	1.391
Average		1.450	1.464	1.444	1.416	1.410
Max		1.450	1.475	1.451	1.424	1.424
UL		3.000	3.000	3.000	3.000	3.000

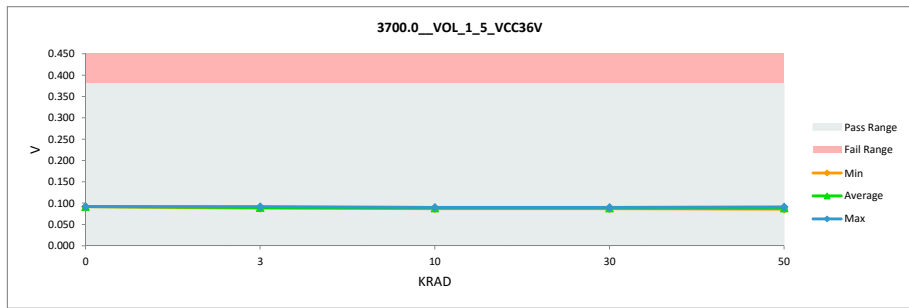


TID Report
TID_REPORT_HVD233_HKX_HDR

3700.0_VOL_1_5_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	0.38	0.38		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.091	0.092	-0.001
3	1	0.091	0.089	0.002
3	2	0.089	0.088	0.001
3	3	0.091	0.089	0.002
3	6	0.090	0.091	-0.001
3	11	0.090	0.090	0.000
3	UB14	0.090	0.088	0.002
3	UB16	0.090	0.092	-0.002
3	UB18	0.090	0.089	0.001
3	UB19	0.090	0.090	0.000
3	UB22	0.091	0.090	0.001
10	23	0.091	0.089	0.002
10	24	0.090	0.087	0.003
10	25	0.090	0.089	0.001
10	28	0.088	0.088	0.000
10	30	0.090	0.090	0.000
10	UB33	0.090	0.089	0.001
10	UB35	0.089	0.089	0.000
10	UB36	0.090	0.087	0.003
10	UB39	0.090	0.089	0.001
10	UB40	0.091	0.089	0.002
30	43	0.089	0.090	-0.001
30	44	0.089	0.088	0.001
30	48	0.090	0.089	0.001
30	50	0.090	0.088	0.002
30	52	0.092	0.090	0.002
30	UB96	0.089	0.089	0.000
30	UB98	0.089	0.088	0.001
30	UB99	0.090	0.087	0.003
30	UB101	0.088	0.089	-0.001
30	UB102	0.089	0.088	0.001
50	105	0.092	0.088	0.004
50	108	0.090	0.089	0.001
50	107	0.088	0.088	0.000
50	111	0.090	0.090	0.000
50	113	0.089	0.088	0.001
50	114	0.089	0.090	-0.001
50	115	0.090	0.089	0.001
50	119	0.090	0.091	-0.001
50	118	0.089	0.087	0.002
50	121	0.089	0.088	0.001
50	124	0.089	0.088	0.001
50	125	0.089	0.089	0.000
50	128	0.090	0.088	0.002
50	130	0.090	0.088	0.002
50	131	0.090	0.089	0.001
50	133	0.090	0.088	0.002
50	134	0.090	0.088	0.002
50	135	0.090	0.089	0.001
50	137	0.089	0.088	0.001
50	298	0.090	0.088	0.002
50	299	0.089	0.088	0.001
50	UB293	0.089	0.087	0.002
50	UB294	0.090	0.090	0.000
50	UB295	0.090	0.088	0.002
50	UB296	0.089	0.087	0.002
50	UB297	0.089	0.086	0.003
	Max	0.092	0.092	0.004
	Average	0.090	0.089	0.001
	Min	0.088	0.086	-0.002
	Std Dev	0.001	0.001	0.001



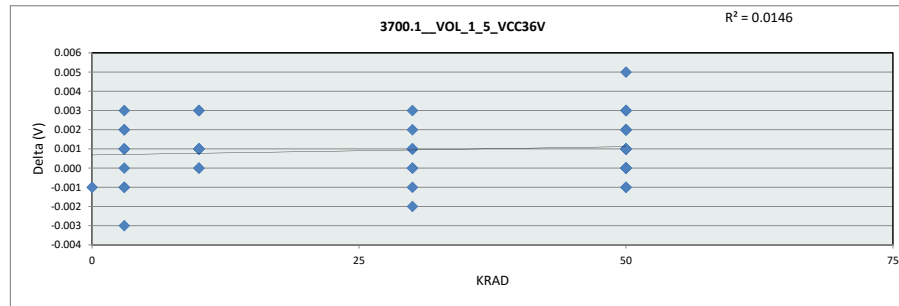
3700.0_VOL_1_5_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.38	V			
Min Limit	0	V			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.092	0.088	0.087	0.087	0.086
Average	0.092	0.090	0.089	0.089	0.088
Max	0.092	0.092	0.090	0.090	0.091
UL	0.380	0.380	0.380	0.380	0.380



TID Report
TID_REPORT_HVD233_HKX_HDR

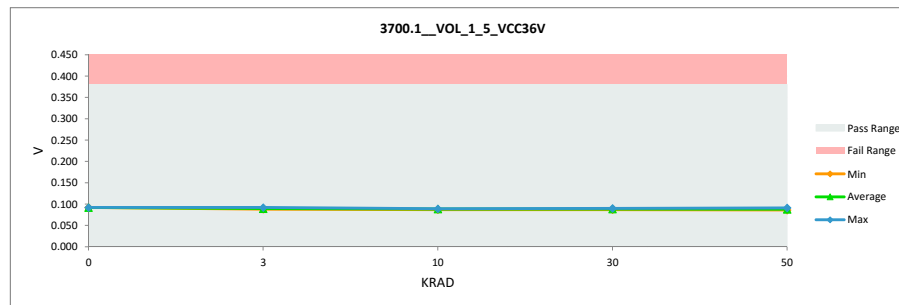
3700.1_VOL_1_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.091	0.092	-0.001
3	1	0.090	0.089	0.001
3	2	0.089	0.088	0.001
3	3	0.091	0.088	0.003
3	6	0.090	0.090	0.000
3	11	0.089	0.090	-0.001
3	UB14	0.090	0.088	0.002
3	UB16	0.089	0.092	-0.003
3	UB18	0.090	0.089	0.001
3	UB19	0.089	0.090	-0.001
3	UB22	0.091	0.089	0.002
10	23	0.091	0.088	0.003
10	24	0.090	0.087	0.003
10	25	0.090	0.089	0.001
10	28	0.088	0.088	0.000
10	30	0.090	0.089	0.001
10	UB33	0.090	0.089	0.001
10	UB35	0.089	0.089	0.000
10	UB36	0.090	0.087	0.003
10	UB39	0.089	0.088	0.001
10	UB40	0.090	0.089	0.001
30	43	0.088	0.090	-0.002
30	44	0.089	0.088	0.001
30	48	0.089	0.088	0.001
30	50	0.089	0.088	0.001
30	52	0.091	0.090	0.001
30	UB96	0.088	0.089	-0.001
30	UB98	0.088	0.088	0.000
30	UB99	0.090	0.087	0.003
30	UB101	0.088	0.088	0.000
30	UB102	0.089	0.087	0.002
50	105	0.092	0.087	0.005
50	108	0.089	0.089	0.000
50	107	0.087	0.088	-0.001
50	111	0.090	0.090	0.000
50	113	0.088	0.087	0.001
50	114	0.089	0.089	0.000
50	115	0.089	0.088	0.001
50	119	0.090	0.091	-0.001
50	118	0.089	0.087	0.002
50	121	0.088	0.088	0.000
50	124	0.089	0.088	0.001
50	125	0.088	0.088	0.000
50	128	0.089	0.088	0.001
50	130	0.089	0.088	0.001
50	131	0.089	0.089	0.000
50	133	0.090	0.087	0.003
50	134	0.089	0.087	0.002
50	135	0.089	0.089	0.000
50	137	0.088	0.087	0.001
50	298	0.090	0.087	0.003
50	299	0.089	0.088	0.001
50	UB293	0.089	0.087	0.002
50	UB294	0.090	0.089	0.001
50	UB295	0.089	0.087	0.002
50	UB296	0.088	0.086	0.002
50	UB297	0.089	0.086	0.003
	Max	0.092	0.092	0.005
	Average	0.089	0.088	0.001
	Min	0.087	0.086	-0.003
	Std Dev	0.001	0.001	0.001



3700.1_VOL_1_5_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	0.38	V
Min Limit	0	V

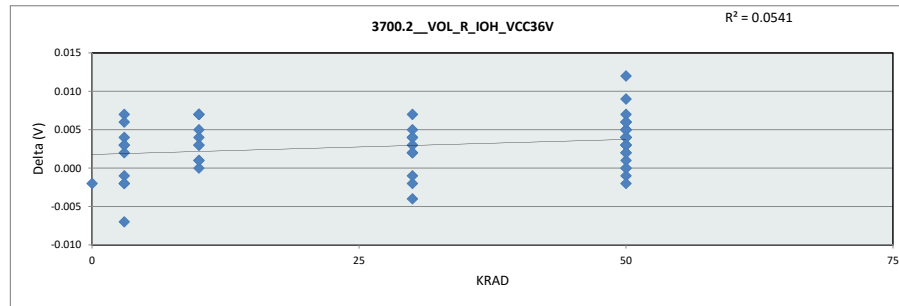
	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		0.092	0.088	0.087	0.087	0.086
Average		0.092	0.089	0.088	0.088	0.088
Max		0.092	0.092	0.089	0.090	0.091
UL		0.380	0.380	0.380	0.380	0.380



TID Report
TID_REPORT_HVD233_HKX_HDR

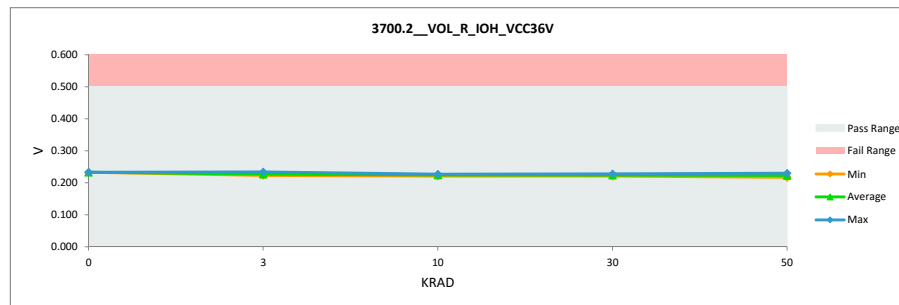
3700.2_VOL_R_IOH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.231	0.233	-0.002
3	1	0.230	0.226	0.004
3	2	0.226	0.223	0.003
3	3	0.231	0.224	0.007
3	6	0.228	0.230	-0.002
3	11	0.228	0.229	-0.001
3	UB14	0.229	0.223	0.006
3	UB16	0.227	0.234	-0.007
3	UB18	0.228	0.226	0.002
3	UB19	0.227	0.229	-0.002
3	UB22	0.230	0.227	0.003
10	23	0.231	0.224	0.007
10	24	0.228	0.221	0.007
10	25	0.229	0.226	0.003
10	28	0.224	0.224	0.000
10	30	0.228	0.227	0.001
10	UB33	0.229	0.225	0.004
10	UB35	0.226	0.225	0.001
10	UB36	0.228	0.221	0.007
10	UB39	0.228	0.225	0.003
10	UB40	0.230	0.225	0.005
30	43	0.224	0.228	-0.004
30	44	0.225	0.223	0.002
30	48	0.227	0.224	0.003
30	50	0.227	0.222	0.005
30	52	0.232	0.228	0.004
30	UB96	0.224	0.226	-0.002
30	UB98	0.225	0.223	0.002
30	UB99	0.228	0.221	0.007
30	UB101	0.223	0.224	-0.001
30	UB102	0.226	0.222	0.004
50	105	0.234	0.222	0.012
50	108	0.227	0.224	0.003
50	107	0.222	0.223	-0.001
50	111	0.228	0.228	0.000
50	113	0.225	0.222	0.003
50	114	0.226	0.226	0.000
50	115	0.227	0.223	0.004
50	119	0.228	0.230	-0.002
50	118	0.226	0.221	0.005
50	121	0.225	0.222	0.003
50	124	0.225	0.223	0.002
50	125	0.225	0.224	0.001
50	128	0.226	0.222	0.004
50	130	0.227	0.222	0.005
50	131	0.228	0.224	0.004
50	133	0.228	0.221	0.007
50	134	0.227	0.222	0.005
50	135	0.227	0.224	0.003
50	137	0.225	0.221	0.004
50	298	0.228	0.222	0.006
50	299	0.226	0.222	0.004
50	UB293	0.226	0.221	0.005
50	UB294	0.229	0.227	0.002
50	UB295	0.228	0.222	0.006
50	UB296	0.225	0.219	0.006
50	UB297	0.226	0.217	0.009
	Max	0.234	0.234	0.012
	Average	0.227	0.224	0.003
	Min	0.222	0.217	-0.007
	Std Dev	0.002	0.003	0.003



3700.2_VOL_R_IOH_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	0.5	V
Min Limit	0	V

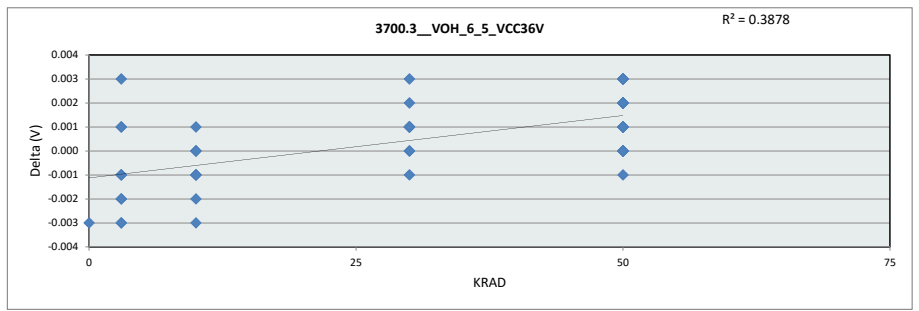
	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		0.233	0.223	0.221	0.221	0.217
Average		0.233	0.227	0.224	0.224	0.223
Max		0.233	0.234	0.227	0.228	0.230
UL		0.500	0.500	0.500	0.500	0.500



TID Report
TID_REPORT_HVD233_HKX_HDR

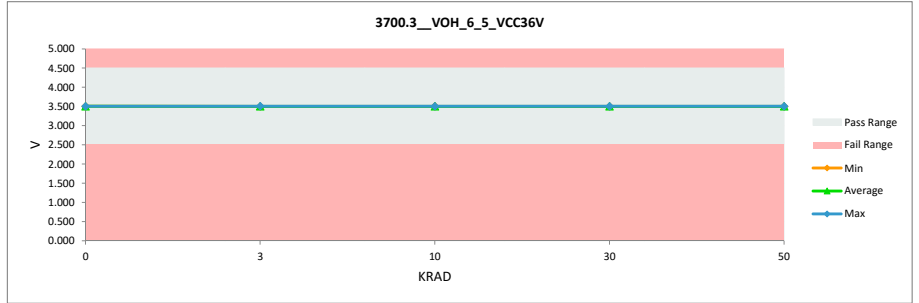
3700.3_VOH_6_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.501	3.504	-0.003
3	1	3.502	3.504	-0.002
3	2	3.503	3.506	-0.003
3	3	3.502	3.503	-0.001
3	6	3.502	3.503	-0.001
3	11	3.503	3.502	0.001
3	UB14	3.502	3.505	-0.003
3	UB16	3.504	3.501	0.003
3	UB18	3.503	3.504	-0.001
3	UB19	3.503	3.502	0.001
3	UB22	3.502	3.504	-0.002
10	23	3.502	3.503	-0.001
10	24	3.504	3.504	0.000
10	25	3.502	3.503	-0.001
10	28	3.504	3.503	0.001
10	30	3.502	3.503	-0.001
10	UB33	3.503	3.504	-0.001
10	UB35	3.504	3.504	0.000
10	UB36	3.502	3.505	-0.003
10	UB39	3.503	3.503	0.000
10	UB40	3.502	3.504	-0.002
30	43	3.503	3.501	0.002
30	44	3.504	3.504	0.000
30	48	3.503	3.502	0.001
30	50	3.503	3.502	0.001
30	52	3.502	3.501	0.001
30	UB96	3.504	3.501	0.003
30	UB98	3.503	3.502	0.001
30	UB99	3.502	3.503	-0.001
30	UB101	3.504	3.503	0.001
30	UB102	3.503	3.503	0.000
50	105	3.503	3.503	0.000
50	108	3.503	3.502	0.001
50	107	3.504	3.501	0.003
50	111	3.503	3.501	0.002
50	113	3.503	3.502	0.001
50	114	3.503	3.502	0.001
50	115	3.503	3.501	0.002
50	119	3.503	3.500	0.003
50	118	3.504	3.503	0.001
50	121	3.504	3.501	0.003
50	124	3.503	3.501	0.002
50	125	3.503	3.500	0.003
50	128	3.504	3.502	0.002
50	130	3.504	3.503	0.001
50	131	3.503	3.501	0.002
50	133	3.502	3.502	0.000
50	134	3.503	3.501	0.002
50	135	3.504	3.501	0.003
50	137	3.504	3.504	0.000
50	298	3.504	3.502	0.002
50	299	3.502	3.503	-0.001
50	UB293	3.503	3.503	0.000
50	UB294	3.502	3.502	0.000
50	UB295	3.503	3.501	0.002
50	UB296	3.503	3.502	0.001
50	UB297	3.503	3.503	0.000
	Max	3.504	3.506	0.003
	Average	3.503	3.503	0.000
	Min	3.501	3.500	-0.003
	Std Dev	0.001	0.001	0.002



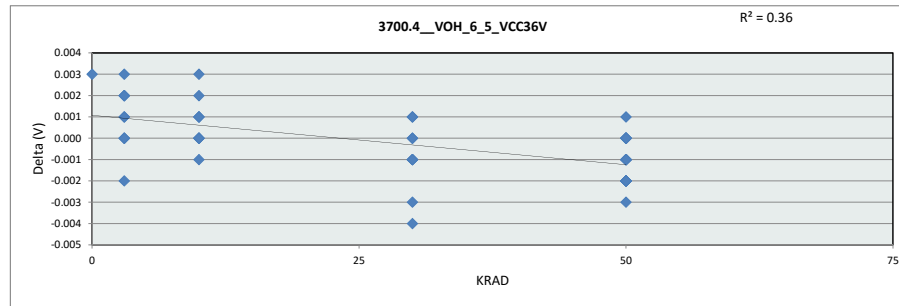
3700.3_VOH_6_5_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	4.5	V
Min Limit	2.5	V

	KRAD	0	3	10	30	50
LL		2.500	2.500	2.500	2.500	2.500
Min		3.504	3.501	3.503	3.501	3.500
Average		3.504	3.503	3.504	3.502	3.502
Max		3.504	3.506	3.505	3.504	3.504
UL		4.500	4.500	4.500	4.500	4.500

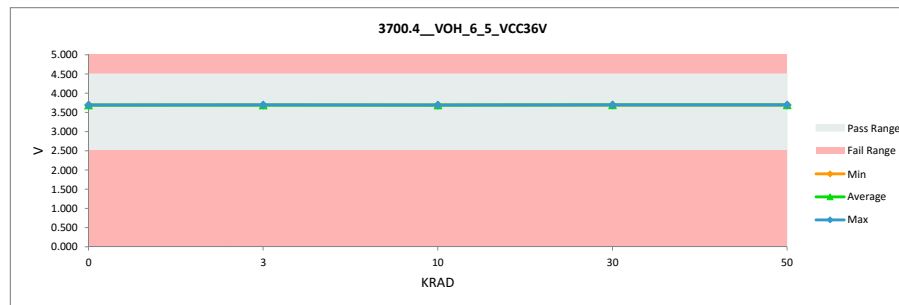


TID Report
TID_REPORT_HVD233_HKX_HDR

3700.4_VOH_6_5_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	4.5	4.5		
Min Limit	2.5	2.5		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.694	3.691	0.003
3	1	3.694	3.692	0.002
3	2	3.693	3.690	0.003
3	3	3.694	3.693	0.001
3	6	3.694	3.693	0.001
3	11	3.693	3.693	0.000
3	UB14	3.693	3.691	0.002
3	UB16	3.692	3.694	-0.002
3	UB18	3.692	3.692	0.000
3	UB19	3.693	3.693	0.000
3	UB22	3.694	3.692	0.002
10	23	3.694	3.693	0.001
10	24	3.692	3.692	0.000
10	25	3.694	3.693	0.001
10	28	3.692	3.693	-0.001
10	30	3.693	3.693	0.000
10	UB33	3.693	3.692	0.001
10	UB35	3.692	3.692	0.000
10	UB36	3.694	3.691	0.003
10	UB39	3.693	3.693	0.000
10	UB40	3.694	3.692	0.002
30	43	3.692	3.695	-0.003
30	44	3.692	3.691	0.001
30	48	3.692	3.693	-0.001
30	50	3.693	3.693	0.000
30	52	3.694	3.694	0.000
30	UB96	3.691	3.695	-0.004
30	UB98	3.693	3.694	-0.001
30	UB99	3.694	3.693	0.001
30	UB101	3.692	3.693	-0.001
30	UB102	3.692	3.693	-0.001
50	105	3.693	3.693	0.000
50	108	3.693	3.693	0.000
50	107	3.691	3.694	-0.003
50	111	3.693	3.695	-0.002
50	113	3.693	3.694	-0.001
50	114	3.693	3.694	-0.001
50	115	3.693	3.694	-0.001
50	119	3.693	3.695	-0.002
50	118	3.692	3.692	0.000
50	121	3.692	3.694	-0.002
50	124	3.693	3.694	-0.001
50	125	3.693	3.695	-0.002
50	128	3.692	3.693	-0.001
50	130	3.692	3.693	-0.001
50	131	3.693	3.695	-0.002
50	133	3.693	3.693	0.000
50	134	3.692	3.694	-0.002
50	135	3.692	3.694	-0.002
50	137	3.692	3.692	0.000
50	298	3.692	3.694	-0.002
50	299	3.694	3.693	0.001
50	UB293	3.693	3.693	0.000
50	UB294	3.693	3.694	-0.001
50	UB295	3.692	3.694	-0.002
50	UB296	3.692	3.694	-0.002
50	UB297	3.693	3.693	0.000
	Max	3.694	3.695	0.003
	Average	3.693	3.693	0.000
	Min	3.691	3.690	-0.004
	Std Dev	0.001	0.001	0.002



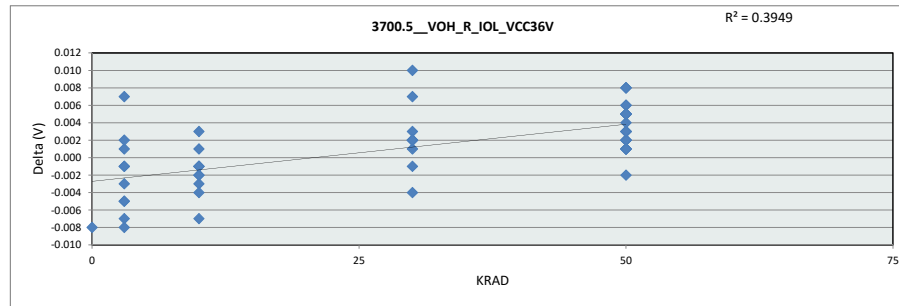
3700.4_VOH_6_5_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	4.5	V			
Min Limit	2.5	V			
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	3.691	3.690	3.691	3.691	3.692
Average	3.691	3.692	3.692	3.693	3.694
Max	3.691	3.694	3.693	3.695	3.695
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_HDR

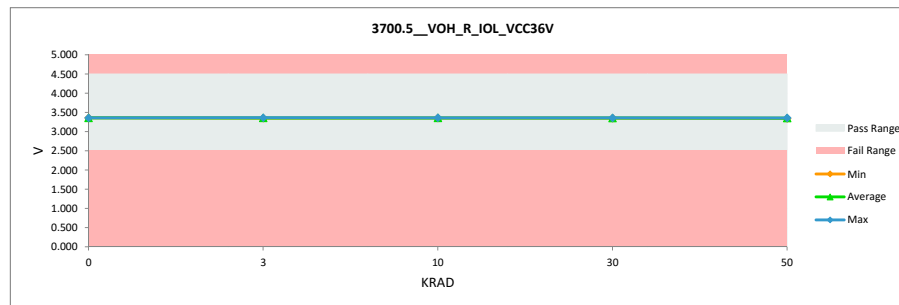
3700.5_VOH_R_IOL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.351	3.359	-0.008
3	1	3.353	3.358	-0.005
3	2	3.355	3.363	-0.008
3	3	3.353	3.354	-0.001
3	6	3.352	3.355	-0.003
3	11	3.355	3.354	0.001
3	UB14	3.353	3.360	-0.007
3	UB16	3.358	3.351	0.007
3	UB18	3.357	3.358	-0.001
3	UB19	3.355	3.353	0.002
3	UB22	3.352	3.357	-0.005
10	23	3.353	3.354	-0.001
10	24	3.358	3.359	-0.001
10	25	3.352	3.355	-0.003
10	28	3.358	3.355	0.003
10	30	3.353	3.355	-0.002
10	UB33	3.356	3.358	-0.002
10	UB35	3.358	3.359	-0.001
10	UB36	3.353	3.360	-0.007
10	UB39	3.355	3.354	0.001
10	UB40	3.353	3.357	-0.004
30	43	3.357	3.350	0.007
30	44	3.358	3.359	-0.001
30	48	3.356	3.354	0.002
30	50	3.354	3.353	0.001
30	52	3.353	3.351	0.002
30	UB96	3.359	3.349	0.010
30	UB98	3.355	3.352	0.003
30	UB99	3.352	3.356	-0.004
30	UB101	3.357	3.355	0.002
30	UB102	3.356	3.354	0.002
50	105	3.356	3.354	0.002
50	108	3.355	3.353	0.002
50	107	3.359	3.351	0.008
50	111	3.354	3.349	0.005
50	113	3.355	3.352	0.003
50	114	3.355	3.352	0.003
50	115	3.355	3.351	0.004
50	119	3.355	3.347	0.008
50	118	3.357	3.356	0.001
50	121	3.357	3.351	0.006
50	124	3.356	3.351	0.005
50	125	3.354	3.349	0.005
50	128	3.357	3.354	0.003
50	130	3.357	3.355	0.002
50	131	3.355	3.349	0.006
50	133	3.353	3.352	0.001
50	134	3.356	3.351	0.005
50	135	3.358	3.350	0.008
50	137	3.358	3.357	0.001
50	298	3.357	3.352	0.005
50	299	3.353	3.355	-0.002
50	UB293	3.355	3.354	0.001
50	UB294	3.354	3.352	0.002
50	UB295	3.356	3.351	0.005
50	UB296	3.356	3.353	0.003
50	UB297	3.355	3.354	0.001
	Max	3.359	3.363	0.010
	Average	3.355	3.354	0.001
	Min	3.351	3.347	-0.008
	Std Dev	0.002	0.003	0.004



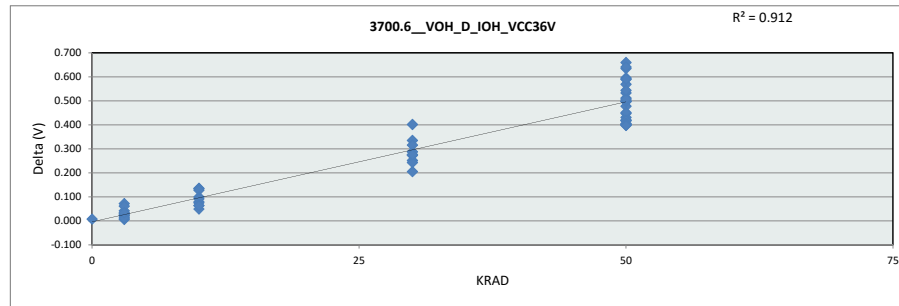
3700.5_VOH_R_IOL_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	4.5	V
Min Limit	2.5	V

	KRAD	0	3	10	30	50
LL		2.500	2.500	2.500	2.500	2.500
Min		3.359	3.351	3.354	3.349	3.347
Average		3.359	3.356	3.357	3.353	3.352
Max		3.359	3.363	3.360	3.359	3.357
UL		4.500	4.500	4.500	4.500	4.500

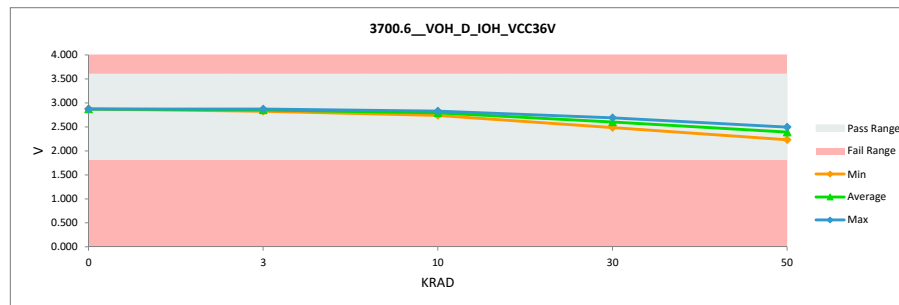


TID Report
TID_REPORT_HVD233_HKX_HDR

3700.6_VOH_D_IOH_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	3.6	3.6		
Min Limit	1.8	1.8		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	2.879	2.872	0.007
3	1	2.871	2.849	0.022
3	2	2.880	2.855	0.025
3	3	2.873	2.867	0.006
3	6	2.896	2.824	0.072
3	11	2.884	2.853	0.031
3	UB14	2.880	2.864	0.016
3	UB16	2.891	2.849	0.042
3	UB18	2.884	2.873	0.011
3	UB19	2.895	2.834	0.061
3	UB22	2.895	2.861	0.034
10	23	2.873	2.739	0.134
10	24	2.886	2.750	0.136
10	25	2.891	2.763	0.128
10	28	2.878	2.799	0.079
10	30	2.894	2.794	0.100
10	UB33	2.886	2.811	0.075
10	UB35	2.897	2.805	0.092
10	UB36	2.886	2.822	0.064
10	UB39	2.877	2.828	0.049
10	UB40	2.883	2.820	0.063
30	43	2.887	2.485	0.402
30	44	2.897	2.609	0.288
30	48	2.876	2.624	0.252
30	50	2.899	2.626	0.273
30	52	2.877	2.542	0.335
30	UB96	2.886	2.570	0.316
30	UB98	2.894	2.689	0.205
30	UB99	2.900	2.625	0.275
30	UB101	2.897	2.654	0.243
30	UB102	2.889	2.613	0.276
50	105	2.853	2.433	0.420
50	108	2.897	2.399	0.498
50	107	2.892	2.232	0.660
50	111	2.889	2.254	0.635
50	113	2.888	2.410	0.478
50	114	2.885	2.295	0.590
50	115	2.898	2.302	0.596
50	119	2.884	2.351	0.533
50	118	2.897	2.400	0.497
50	121	2.882	2.382	0.500
50	124	2.892	2.461	0.431
50	125	2.876	2.364	0.512
50	128	2.887	2.380	0.507
50	130	2.899	2.451	0.448
50	131	2.895	2.444	0.451
50	133	2.898	2.329	0.569
50	134	2.899	2.308	0.591
50	135	2.891	2.347	0.544
50	137	2.888	2.469	0.419
50	298	2.872	2.469	0.403
50	299	2.879	2.462	0.417
50	UB293	2.891	2.492	0.399
50	UB294	2.897	2.256	0.641
50	UB295	2.885	2.480	0.405
50	UB296	2.897	2.495	0.402
50	UB297	2.891	2.493	0.398
	Max	2.900	2.873	0.660
	Average	2.887	2.588	0.299
	Min	2.853	2.232	0.006
	Std Dev	0.009	0.208	0.210



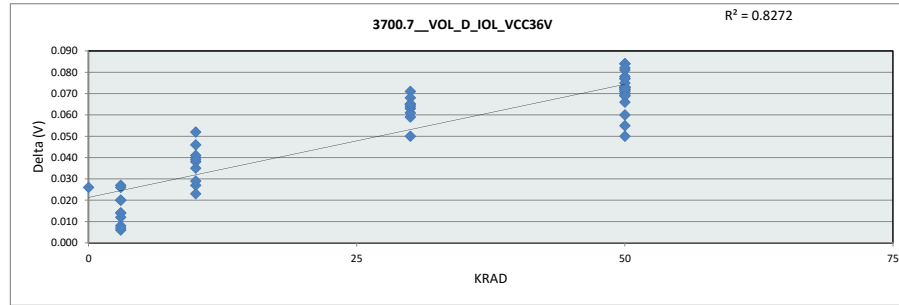
3700.6_VOH_D_IOH_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	3.6	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.872	2.824	2.739	2.485	2.232
Average	2.872	2.853	2.793	2.604	2.391
Max	2.872	2.873	2.828	2.689	2.495
UL	3.600	3.600	3.600	3.600	3.600



TID Report
TID_REPORT_HVD233_HKX_HDR

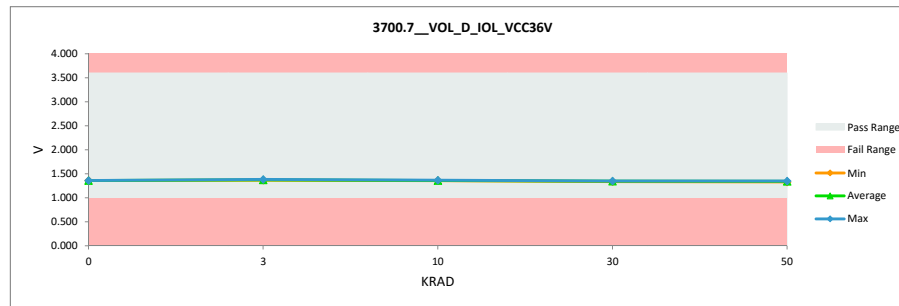
3700.7_VOL_D_IOL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3.6	3.6
Min Limit	1	1

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	1.385	1.359	0.026
3	1	1.387	1.375	0.012
3	2	1.389	1.375	0.014
3	3	1.393	1.366	0.027
3	6	1.385	1.377	0.008
3	11	1.386	1.366	0.020
3	UB14	1.390	1.370	0.020
3	UB16	1.390	1.384	0.006
3	UB18	1.395	1.369	0.026
3	UB19	1.387	1.380	0.007
3	UB22	1.386	1.372	0.014
10	23	1.393	1.366	0.027
10	24	1.398	1.363	0.035
10	25	1.389	1.366	0.023
10	28	1.396	1.358	0.038
10	30	1.398	1.358	0.040
10	UB33	1.403	1.362	0.041
10	UB35	1.393	1.364	0.029
10	UB36	1.397	1.358	0.039
10	UB39	1.408	1.356	0.052
10	UB40	1.404	1.358	0.046
30	43	1.410	1.351	0.059
30	44	1.400	1.350	0.050
30	48	1.409	1.346	0.063
30	50	1.410	1.346	0.064
30	52	1.416	1.345	0.071
30	UB96	1.410	1.345	0.065
30	UB98	1.405	1.337	0.068
30	UB99	1.408	1.343	0.065
30	UB101	1.404	1.343	0.061
30	UB102	1.411	1.346	0.065
50	105	1.426	1.342	0.084
50	108	1.407	1.347	0.060
50	107	1.417	1.346	0.071
50	111	1.419	1.348	0.071
50	113	1.416	1.344	0.072
50	114	1.428	1.350	0.078
50	115	1.420	1.348	0.072
50	119	1.428	1.347	0.081
50	118	1.420	1.345	0.075
50	121	1.412	1.342	0.070
50	124	1.419	1.342	0.077
50	125	1.421	1.337	0.084
50	128	1.421	1.348	0.073
50	130	1.414	1.344	0.070
50	131	1.414	1.341	0.073
50	133	1.414	1.341	0.073
50	134	1.415	1.343	0.072
50	135	1.413	1.340	0.073
50	137	1.392	1.342	0.050
50	298	1.406	1.340	0.066
50	299	1.412	1.343	0.069
50	UB293	1.409	1.332	0.077
50	UB294	1.397	1.342	0.055
50	UB295	1.403	1.331	0.072
50	UB296	1.398	1.329	0.069
50	UB297	1.411	1.329	0.082
	Max	1.428	1.384	0.084
	Average	1.405	1.352	0.054
	Min	1.385	1.329	0.066
	Std Dev	0.012	0.013	0.023



3700.7_VOL_D_IOL_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	3.6	V
Min Limit	1	V

	KRAD	0	3	10	30	50
LL		1.000	1.000	1.000	1.000	1.000
Min		1.359	1.366	1.356	1.337	1.329
Average		1.359	1.373	1.361	1.345	1.342
Max		1.359	1.384	1.366	1.351	1.350
UL		3.600	3.600	3.600	3.600	3.600

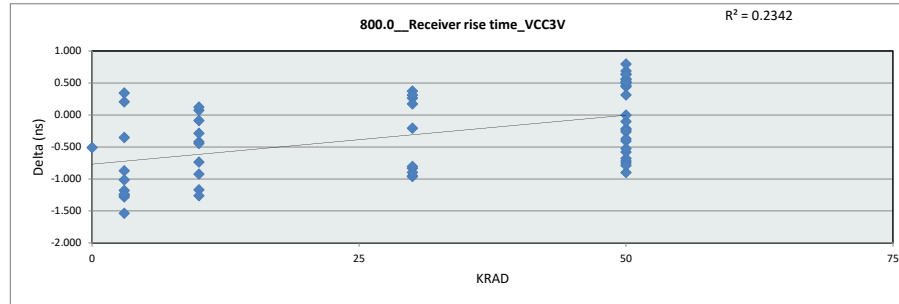


TID Report
TID_REPORT_HVD233_HKX_HDR

800.0_Receiver rise time_VCC3V

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	30	30
Min Limit	0	0

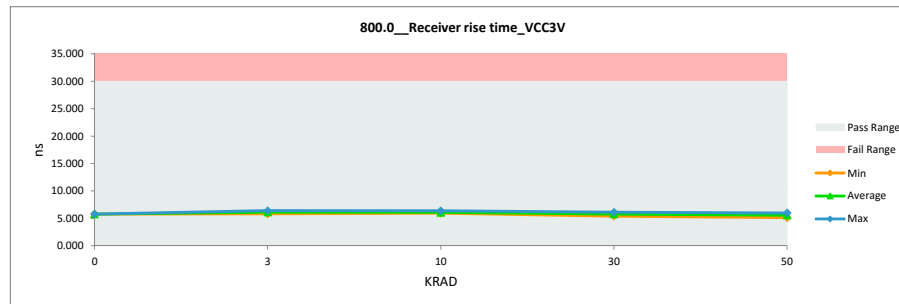
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	5.288	5.798	-0.510
3	1	5.021	6.201	-1.180
3	2	5.153	6.406	-1.253
3	3	5.727	6.080	-0.353
3	6	4.884	6.166	-1.282
3	11	6.125	5.920	0.205
3	UB14	4.877	6.415	-1.538
3	UB16	5.081	5.953	-0.872
3	UB18	5.161	6.177	-1.016
3	UB19	6.186	5.843	0.343
3	UB22	5.024	6.264	-1.240
10	23	5.727	6.148	-0.421
10	24	6.258	6.186	0.072
10	25	4.878	6.047	-1.169
10	28	5.256	5.994	-0.738
10	30	6.070	5.947	0.123
10	UB33	5.859	6.147	-0.288
10	UB35	6.138	6.227	-0.089
10	UB36	5.941	6.386	-0.445
10	UB39	5.047	5.971	-0.924
10	UB40	4.770	6.033	-1.263
30	43	5.025	5.857	-0.832
30	44	5.168	6.130	-0.962
30	48	6.102	5.840	0.262
30	50	4.893	5.848	-0.955
30	52	5.925	5.754	0.171
30	UB96	5.210	5.418	-0.208
30	UB98	6.121	5.749	0.372
30	UB99	4.946	5.844	-0.898
30	UB101	4.949	5.754	-0.805
30	UB102	6.085	5.775	0.310
50	105	5.027	5.748	-0.721
50	108	6.169	5.608	0.561
50	107	5.208	5.424	-0.216
50	111	4.855	5.264	-0.409
50	113	6.081	5.639	0.442
50	114	6.182	5.668	0.514
50	115	6.088	5.775	0.313
50	119	5.026	5.258	-0.232
50	118	5.105	5.785	-0.680
50	121	6.235	5.682	0.553
50	124	5.324	5.586	-0.262
50	125	4.898	5.271	-0.373
50	128	6.316	5.677	0.639
50	130	6.255	5.800	0.455
50	131	6.140	5.454	0.686
50	133	6.103	5.613	0.490
50	134	5.037	5.141	-0.104
50	135	6.017	5.386	0.631
50	137	5.099	6.000	-0.901
50	298	5.175	5.755	-0.580
50	299	5.902	5.904	-0.002
50	UB293	6.162	5.642	0.520
50	UB294	4.924	5.677	-0.753
50	UB295	6.147	5.353	0.794
50	UB296	4.989	5.514	-0.525
50	UB297	4.902	5.692	-0.790
	Max	6.316	6.415	0.794
	Average	5.513	5.817	-0.304
	Min	4.770	5.141	-1.538
	Std Dev	0.542	0.305	0.636



800.0_Receiver rise time_VCC3V

Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	30 ns
Min Limit	0 ns

	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		5.798	5.843	5.947	5.418	5.141
Average		5.798	6.143	6.109	5.797	5.589
Max		5.798	6.415	6.386	6.130	6.000
UL		30.000	30.000	30.000	30.000	30.000

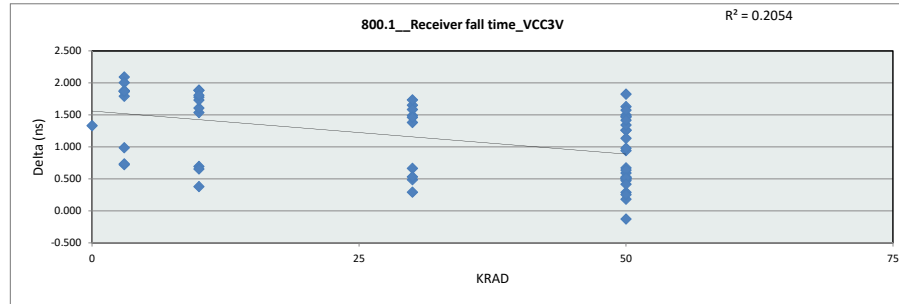


TID Report
TID_REPORT_HVD233_HKX_HDR

800.1_Receiver fall time_VCC3

Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	30	30
Min Limit	0	0

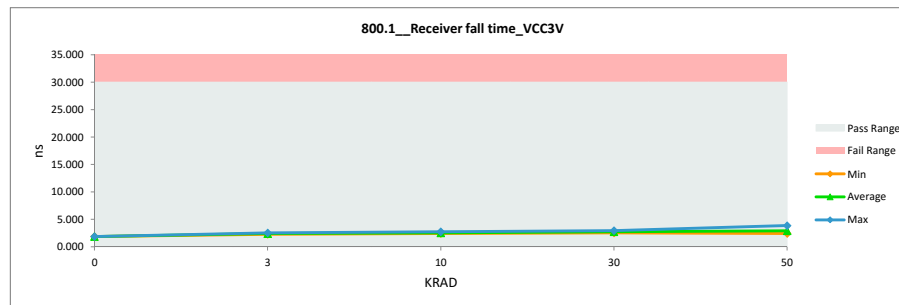
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	3.198	1.865	1.333
3	1	4.310	2.441	1.869
3	2	4.314	2.523	1.791
3	3	3.159	2.436	0.723
3	6	4.413	2.322	2.091
3	11	4.153	2.284	1.869
3	UB14	3.217	2.482	0.735
3	UB16	4.336	2.331	2.005
3	UB18	4.375	2.496	1.879
3	UB19	3.263	2.276	0.987
3	UB22	4.254	2.387	1.867
10	23	3.159	2.463	0.696
10	24	4.279	2.741	1.538
10	25	4.200	2.422	1.778
10	28	3.181	2.525	0.656
10	30	4.044	2.436	1.608
10	UB33	4.365	2.480	1.885
10	UB35	4.255	2.524	1.731
10	UB36	3.111	2.732	0.379
10	UB39	4.356	2.472	1.884
10	UB40	4.300	2.493	1.807
30	43	4.251	2.599	1.652
30	44	4.287	2.797	1.490
30	48	3.216	2.728	0.488
30	50	4.383	2.799	1.584
30	52	3.191	2.525	0.666
30	UB96	3.155	2.623	0.532
30	UB98	4.203	2.821	1.382
30	UB99	4.399	2.938	1.461
30	UB101	4.427	2.693	1.734
30	UB102	3.121	2.829	0.292
50	105	4.154	2.891	1.263
50	108	3.245	2.734	0.511
50	107	3.198	2.724	0.474
50	111	4.241	2.416	1.825
50	113	4.165	2.905	1.260
50	114	3.387	2.715	0.672
50	115	4.255	2.756	1.499
50	119	4.170	2.692	1.478
50	118	4.382	3.247	1.135
50	121	4.379	2.912	1.467
50	124	4.240	2.897	1.343
50	125	4.266	2.637	1.629
50	128	4.244	2.828	1.416
50	130	3.785	2.843	0.942
50	131	3.208	2.678	0.530
50	133	3.406	2.909	0.497
50	134	3.177	2.585	0.592
50	135	3.290	2.653	0.637
50	137	3.277	2.987	0.290
50	298	3.325	2.807	0.518
50	299	3.165	2.983	0.182
50	UB293	4.188	3.208	0.980
50	UB294	4.330	2.755	1.575
50	UB295	3.112	3.239	-0.127
50	UB296	3.926	3.671	0.255
50	UB297	4.281	3.863	0.418
	Max	4.427	3.863	2.091
	Average	3.854	2.702	1.152
	Min	3.111	1.865	-0.127
	Std Dev	0.523	0.325	0.597



800.1_Receiver fall time_VCC

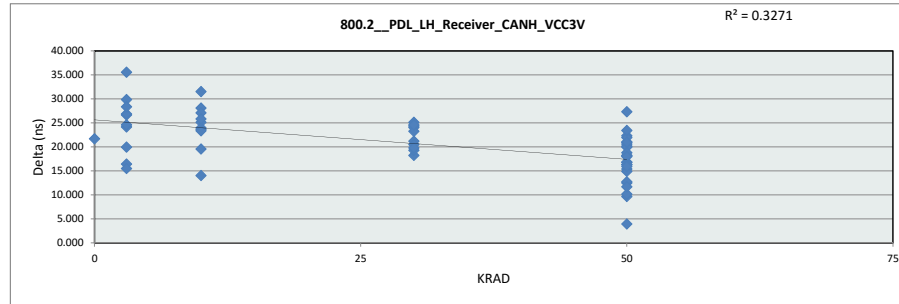
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	30 ns
Min Limit	0 ns

	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		1.865	2.276	2.422	2.525	2.416
Average		1.865	2.398	2.529	2.735	2.905
Max		1.865	2.523	2.741	2.938	3.863
UL		30.000	30.000	30.000	30.000	30.000

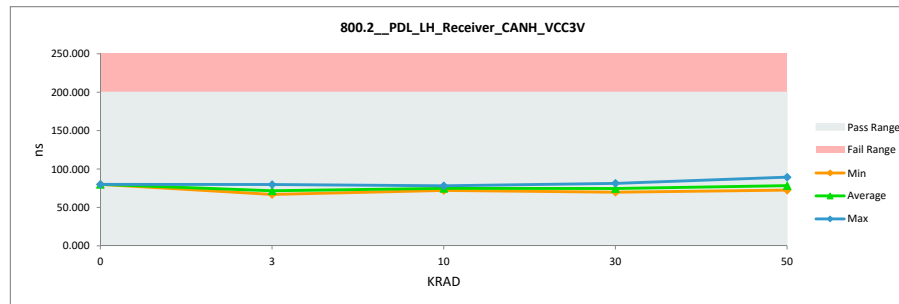


TID Report
TID_REPORT_HVD233_HKX_HDR

800.2_PDL_LH_Receiver_CANH				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	200	200		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	101.699	79.991	21.708
3	1	93.494	66.825	26.669
3	2	89.914	73.478	16.436
3	3	99.521	69.646	29.875
3	6	95.290	79.805	15.485
3	11	98.307	71.461	26.846
3	UB14	107.249	71.694	35.555
3	UB16	94.613	70.467	24.146
3	UB18	100.475	72.122	28.353
3	UB19	96.510	71.899	24.611
3	UB22	89.523	69.575	19.948
10	23	99.521	74.406	25.115
10	24	102.331	74.221	28.110
10	25	91.663	77.621	14.042
10	28	101.765	78.101	23.664
10	30	96.220	76.646	19.574
10	UB33	103.964	72.452	31.512
10	UB35	101.863	74.772	27.091
10	UB36	98.032	74.074	23.958
10	UB39	95.447	72.081	23.366
10	UB40	99.997	74.166	25.831
30	43	92.801	71.592	21.209
30	44	93.819	69.766	24.053
30	48	97.479	73.112	24.367
30	50	97.477	74.200	23.277
30	52	98.957	73.820	25.137
30	UB96	99.293	81.079	18.214
30	UB98	95.546	75.045	20.501
30	UB99	97.457	72.868	24.589
30	UB101	100.639	81.345	19.294
30	UB102	92.049	72.257	19.792
50	105	95.342	78.518	16.824
50	108	98.074	77.902	20.172
50	107	98.726	80.502	18.224
50	111	94.938	79.549	15.389
50	113	96.678	76.089	20.589
50	114	94.434	73.413	21.021
50	115	100.597	88.094	12.503
50	119	87.783	75.067	12.716
50	118	100.829	82.707	18.122
50	121	91.638	75.339	16.299
50	124	89.678	80.021	9.657
50	125	93.610	76.812	16.798
50	128	97.819	77.858	19.961
50	130	95.346	76.561	18.785
50	131	93.387	77.040	16.347
50	133	94.646	76.643	18.003
50	134	99.300	76.976	22.324
50	135	99.834	72.517	27.317
50	137	90.896	80.725	10.171
50	298	99.570	84.659	14.911
50	299	93.272	89.350	3.922
50	UB293	97.560	75.587	21.973
50	UB294	94.257	78.326	15.931
50	UB295	90.637	78.940	11.697
50	UB296	96.265	72.844	23.421
50	UB297	94.545	73.592	20.953
	Max	107.249	89.350	35.555
	Average	96.536	75.899	20.638
	Min	87.783	66.825	3.922
	Std Dev	3.971	4.411	5.788

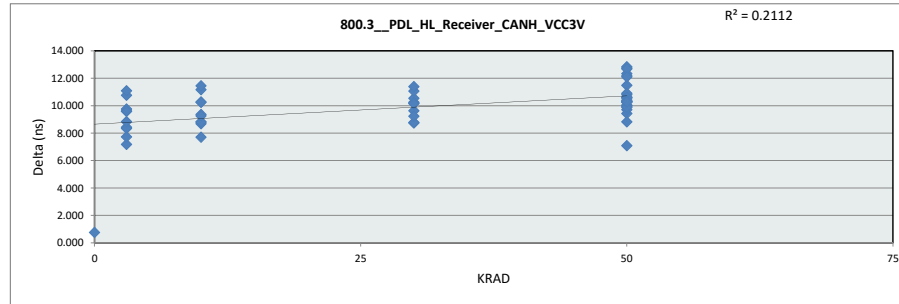


800.2_PDL_LH_Receiver_CANH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	200	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	79.991	66.825	72.081	69.766	72.517
Average	79.991	71.697	74.854	74.508	78.294
Max	79.991	79.805	78.101	81.345	89.350
UL	200.000	200.000	200.000	200.000	200.000

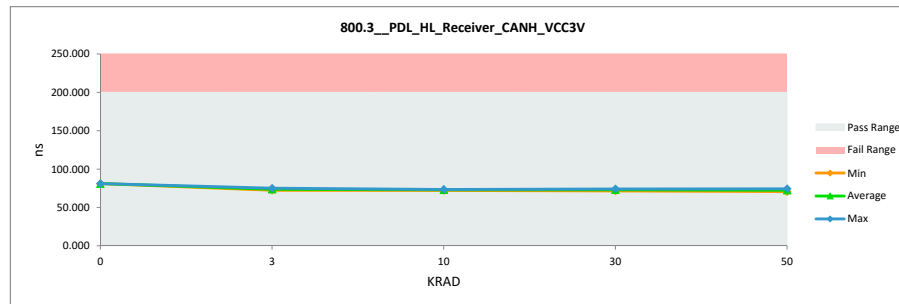


TID Report
TID_REPORT_HVD233_HKX_HDR

800.3_PDL_HL_Receiver_CANH				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	200	200		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	81.869	81.113	0.756
3	1	84.596	75.001	9.595
3	2	83.619	72.852	10.767
3	3	82.490	74.051	8.439
3	6	83.132	73.365	9.767
3	11	81.126	73.943	7.183
3	UB14	80.793	72.444	8.349
3	UB16	82.712	73.866	8.846
3	UB18	83.082	73.466	9.616
3	UB19	82.257	74.518	7.739
3	UB22	84.734	73.640	11.094
10	23	82.490	73.122	9.368
10	24	81.069	72.243	8.826
10	25	84.101	72.930	11.171
10	28	82.082	73.391	8.691
10	30	82.051	73.241	8.810
10	UB33	82.208	72.942	9.266
10	UB35	80.989	73.276	7.713
10	UB36	83.593	72.142	11.451
10	UB39	83.605	73.333	10.272
10	UB40	83.703	73.454	10.249
30	43	83.693	74.057	9.636
30	44	81.858	73.107	8.751
30	48	82.004	73.216	8.788
30	50	83.894	73.348	10.546
30	52	83.771	73.572	10.199
30	UB96	82.498	72.247	10.251
30	UB98	82.186	72.951	9.235
30	UB99	83.651	72.581	11.070
30	UB101	82.872	71.472	11.400
30	UB102	83.883	73.726	10.157
50	105	84.273	71.520	12.753
50	108	82.035	72.603	9.432
50	107	82.432	72.505	9.927
50	111	84.517	73.707	10.810
50	113	82.379	72.354	10.025
50	114	82.845	72.802	10.043
50	115	81.729	71.167	10.562
50	119	85.246	73.752	11.494
50	118	82.177	71.273	10.904
50	121	85.023	72.683	12.340
50	124	84.468	72.292	12.176
50	125	83.321	73.008	10.313
50	128	82.199	71.895	10.304
50	130	82.841	72.593	10.248
50	131	82.569	72.856	9.713
50	133	82.961	72.335	10.626
50	134	83.767	73.878	9.889
50	135	81.376	74.281	7.095
50	137	82.735	72.119	10.616
50	298	84.064	71.224	12.840
50	299	83.329	70.636	12.693
50	UB293	81.558	72.728	8.830
50	UB294	83.715	73.315	10.400
50	UB295	84.542	72.434	12.108
50	UB296	82.907	72.577	10.330
50	UB297	82.707	72.432	10.275
	Max	85.246	81.113	12.840
	Average	82.953	73.045	9.908
	Min	80.793	70.636	0.756
	Std Dev	1.079	1.394	1.800

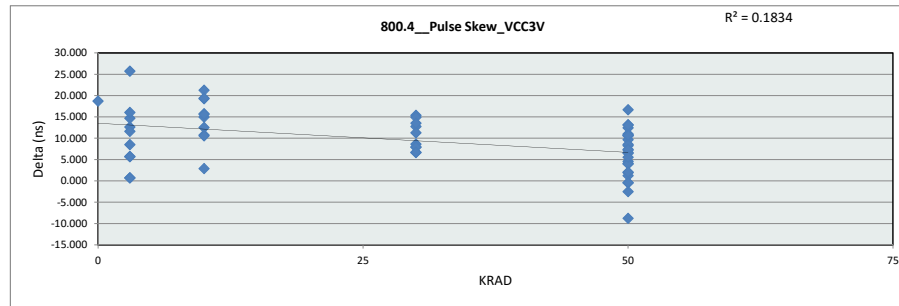


800.3_PDL_HL_Receiver_CANH					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	200	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	81.113	72.444	72.142	71.472	70.636
Average	81.113	73.715	73.007	73.028	72.499
Max	81.113	75.001	73.454	74.057	74.281
UL	200.000	200.000	200.000	200.000	200.000

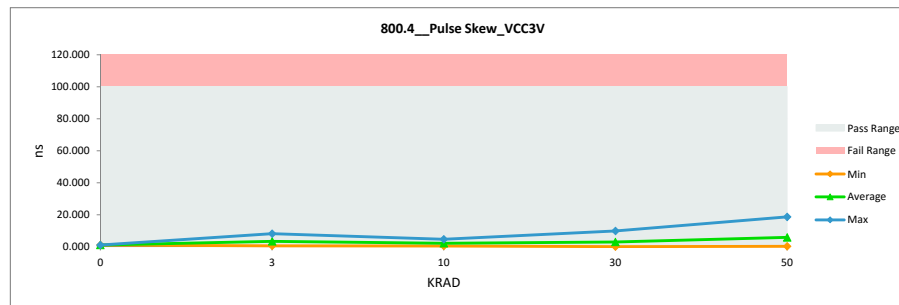


TID Report
TID_REPORT_HVD233_HKX_HDR

800.4_Pulse Skew_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	100	100		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	19.830	1.122	18.708
3	1	8.898	8.175	0.723
3	2	6.294	0.626	5.668
3	3	17.031	4.404	12.627
3	6	12.158	6.440	5.718
3	11	17.181	2.482	14.699
3	UB14	26.456	0.749	25.707
3	UB16	11.901	3.400	8.501
3	UB18	17.393	1.344	16.049
3	UB19	14.253	2.619	11.634
3	UB22	4.789	4.065	0.724
10	23	17.031	1.284	15.747
10	24	21.263	1.978	19.285
10	25	7.562	4.691	2.871
10	28	19.683	4.710	14.973
10	30	14.169	3.405	10.764
10	UB33	21.756	0.491	21.265
10	UB35	20.874	1.496	19.378
10	UB36	14.439	1.932	12.507
10	UB39	11.842	1.253	10.589
10	UB40	16.294	0.712	15.582
30	43	9.108	2.466	6.642
30	44	11.961	3.341	8.620
30	48	15.476	0.104	15.372
30	50	13.583	0.852	12.731
30	52	15.186	0.248	14.938
30	UB96	16.795	8.832	7.963
30	UB98	13.360	2.094	11.266
30	UB99	13.806	0.287	13.519
30	UB101	17.767	9.873	7.894
30	UB102	8.167	1.469	6.698
50	105	11.069	6.998	4.071
50	108	16.039	5.299	10.740
50	107	16.294	7.997	8.297
50	111	10.421	5.841	4.580
50	113	14.299	3.734	10.565
50	114	11.589	0.611	10.978
50	115	18.867	16.927	1.940
50	119	2.538	1.315	1.223
50	118	18.652	11.434	7.218
50	121	6.615	2.656	3.959
50	124	5.210	7.729	-2.519
50	125	10.289	3.805	6.484
50	128	15.620	5.963	9.657
50	130	12.505	3.968	8.537
50	131	10.819	4.184	6.635
50	133	11.686	4.307	7.379
50	134	15.533	3.098	12.435
50	135	18.458	1.764	16.694
50	137	8.161	8.607	-0.446
50	298	15.505	13.435	2.070
50	299	9.944	18.714	-8.770
50	UB293	16.002	2.859	13.143
50	UB294	10.542	5.011	5.531
50	UB295	6.095	6.505	-0.410
50	UB296	13.357	0.268	13.089
50	UB297	11.837	1.160	10.677
	Max	26.456	18.714	25.707
	Average	13.583	4.230	9.353
	Min	2.538	0.104	-8.770
	Std Dev	4.758	3.996	6.412



800.4_Pulse Skew_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	100	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	1.122	0.626	0.491	0.104	0.268
Average	1.122	3.430	2.195	2.957	5.930
Max	1.122	8.175	4.710	9.873	18.714
UL	100.000	100.000	100.000	100.000	100.000

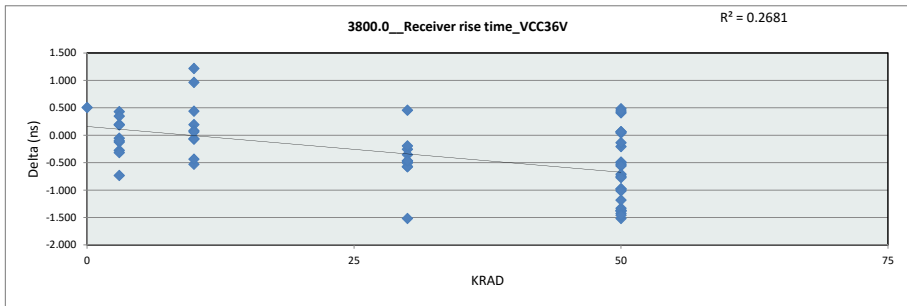


TID Report
TID_REPORT_HVD233_HKX_HDR

3800.0_Receiver rise time_VCC

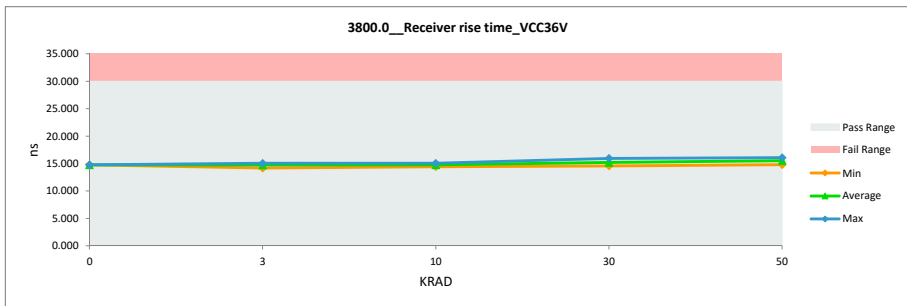
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	30	30
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	15.264	14.759	0.505
3	1	14.705	14.510	0.195
3	2	14.608	14.180	0.428
3	3	14.944	14.998	-0.054
3	6	14.744	14.869	-0.125
3	11	14.752	15.029	-0.277
3	UB14	14.774	14.426	0.348
3	UB16	14.301	15.036	-0.735
3	UB18	14.499	14.601	-0.102
3	UB19	14.737	15.053	-0.316
3	UB22	14.776	14.588	0.188
10	23	14.944	15.013	-0.069
10	24	15.588	14.626	0.962
10	25	16.062	14.846	1.216
10	28	14.453	14.982	-0.529
10	30	15.034	14.840	0.194
10	UB33	14.499	14.565	-0.066
10	UB35	14.636	14.553	0.083
10	UB36	14.869	14.431	0.438
10	UB39	14.612	15.049	-0.437
10	UB40	14.826	14.765	0.061
30	43	15.692	15.236	0.456
30	44	14.320	14.577	-0.257
30	48	14.757	15.111	-0.354
30	50	14.693	15.163	-0.470
30	52	14.951	15.521	-0.570
30	UB96	14.418	15.937	-1.519
30	UB98	14.854	15.358	-0.504
30	UB99	14.869	15.065	-0.196
30	UB101	14.437	15.015	-0.578
30	UB102	14.607	15.077	-0.470
50	105	15.600	15.190	0.410
50	108	14.746	15.494	-0.748
50	107	14.428	15.798	-1.370
50	111	14.672	16.060	-1.388
50	113	15.531	15.470	0.061
50	114	14.931	15.436	-0.505
50	115	15.747	15.705	0.042
50	119	14.498	16.018	-1.520
50	118	14.469	14.958	-0.489
50	121	14.572	15.553	-0.981
50	124	14.508	15.840	-1.332
50	125	14.696	16.070	-1.374
50	128	15.650	15.169	0.481
50	130	15.220	15.155	0.065
50	131	14.750	15.933	-1.183
50	133	14.993	15.530	-0.537
50	134	14.552	15.981	-1.429
50	135	14.576	16.036	-1.460
50	137	14.591	14.799	-0.208
50	298	14.472	15.447	-0.975
50	299	15.033	15.171	-0.138
50	UB293	14.849	15.407	-0.558
50	UB294	14.675	15.387	-0.712
50	UB295	14.714	15.728	-1.014
50	UB296	14.514	15.285	-0.771
50	UB297	15.812	15.372	0.440
	Max	16.062	16.070	1.216
	Average	14.843	15.189	-0.346
	Min	14.301	14.180	-1.520
	Std Dev	0.411	0.479	0.647



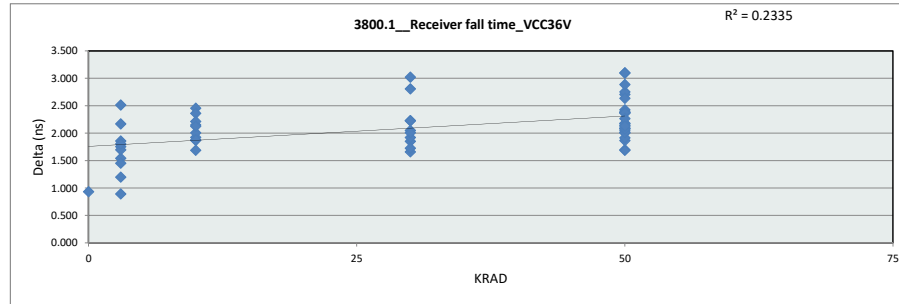
Test Site	Junkins
Tester	ETS10
Test Number	EF580302
Max Limit	30
Min Limit	0

	KRAD	0	3	10	30	50
LL		0.000	0.000	0.000	0.000	0.000
Min		14.759	14.180	14.431	14.577	14.799
Average		14.759	14.729	14.767	15.206	15.538
Max		14.759	15.053	15.049	15.937	16.070
UL		30.000	30.000	30.000	30.000	30.000

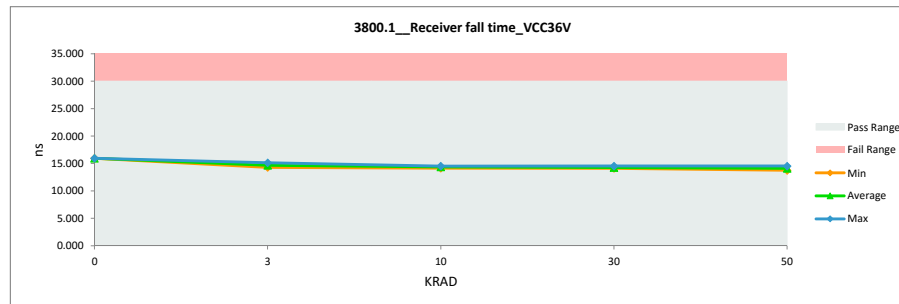


TID Report
TID_REPORT_HVD233_HKX_HDR

3800.1_Receiver fall time_VCC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	30	30		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	16.880	15.946	0.934
3	1	16.358	14.500	1.858
3	2	16.084	14.328	1.756
3	3	16.937	14.424	2.513
3	6	16.123	14.924	1.199
3	11	16.412	14.869	1.543
3	UB14	16.457	14.286	2.171
3	UB16	16.017	15.126	0.891
3	UB18	16.278	14.580	1.698
3	UB19	16.371	14.919	1.452
3	UB22	16.465	14.660	1.805
10	23	16.937	14.481	2.456
10	24	16.120	14.196	1.924
10	25	16.651	14.503	2.148
10	28	16.059	14.372	1.687
10	30	16.524	14.519	2.005
10	UB33	16.301	14.433	1.868
10	UB35	16.732	14.370	2.362
10	UB36	16.359	14.147	2.212
10	UB39	16.245	14.366	1.879
10	UB40	16.506	14.380	2.126
30	43	16.255	14.404	1.851
30	44	17.192	14.170	3.022
30	48	16.426	14.199	2.227
30	50	16.078	14.155	1.923
30	52	17.343	14.534	2.809
30	UB96	16.038	14.379	1.659
30	UB98	16.260	14.210	2.050
30	UB99	16.341	14.112	2.229
30	UB101	15.921	14.194	1.727
30	UB102	16.169	14.160	2.009
50	105	17.166	14.068	3.098
50	108	16.331	14.243	2.088
50	107	15.881	14.183	1.698
50	111	16.225	14.536	1.689
50	113	16.451	14.064	2.387
50	114	16.393	14.220	2.173
50	115	16.880	14.173	2.707
50	119	16.512	14.331	2.181
50	118	16.038	14.032	2.006
50	121	16.105	14.062	2.043
50	124	17.234	14.133	3.101
50	125	17.004	14.250	2.754
50	128	16.920	14.033	2.887
50	130	16.435	14.010	2.425
50	131	16.339	14.197	2.142
50	133	16.391	14.015	2.376
50	134	16.149	14.283	1.866
50	135	16.197	14.280	1.917
50	137	16.065	14.056	2.009
50	298	16.190	14.095	2.095
50	299	16.420	14.056	2.364
50	UB293	16.356	13.982	2.374
50	UB294	16.287	14.211	2.076
50	UB295	16.277	14.011	2.266
50	UB296	15.948	13.820	2.128
50	UB297	16.379	13.744	2.635
	Max	17.343	15.946	3.101
	Average	16.411	14.315	2.096
	Min	15.881	13.744	0.891
	Std Dev	0.350	0.344	0.461

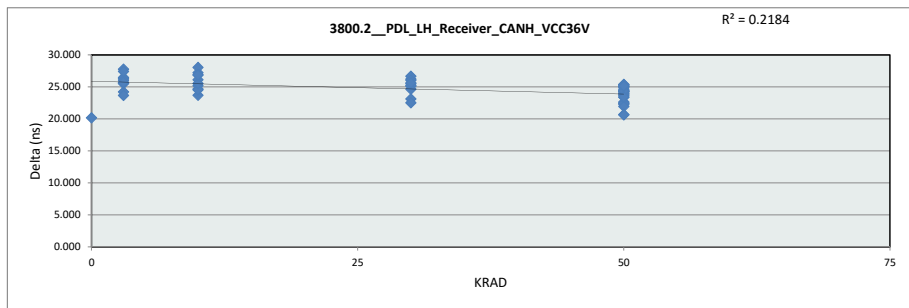


3800.1_Receiver fall time_VCC					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	30	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	15.946	14.286	14.147	14.112	13.744
Average	15.946	14.662	14.377	14.252	14.119
Max	15.946	15.126	14.519	14.534	14.536
UL	30.000	30.000	30.000	30.000	30.000

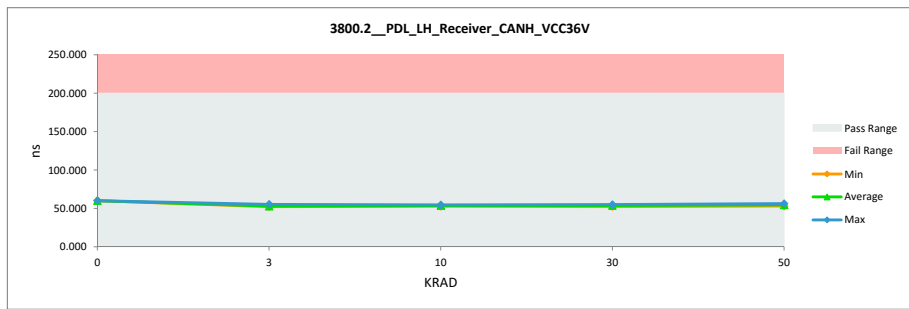


TID Report
TID_REPORT_HVD233_HKX_HDR

3800.2_PDL_LH_Receiver_CAN				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	200	200		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	80.280	60.117	20.163
3	1	77.780	52.204	25.576
3	2	77.082	52.857	24.225
3	3	78.848	52.531	26.317
3	6	78.984	55.311	23.673
3	11	79.377	52.901	26.476
3	UB14	80.204	52.444	27.760
3	UB16	78.501	52.418	26.083
3	UB18	80.411	52.998	27.413
3	UB19	79.208	53.682	25.526
3	UB22	77.915	52.201	25.714
10	23	78.848	53.657	25.191
10	24	80.429	53.202	27.227
10	25	78.026	54.337	23.689
10	28	79.264	54.604	24.660
10	30	78.935	54.384	24.551
10	UB33	81.029	52.992	28.037
10	UB35	80.588	53.717	26.871
10	UB36	78.872	52.751	26.121
10	UB39	78.914	53.379	25.535
10	UB40	80.424	53.558	26.866
30	43	78.214	53.057	25.157
30	44	77.887	52.391	25.496
30	48	78.719	53.546	25.173
30	50	80.041	53.816	26.225
30	52	80.200	53.524	26.676
30	UB96	78.198	55.066	23.132
30	UB98	78.768	54.120	24.648
30	UB99	79.146	53.093	26.053
30	UB101	80.574	54.959	25.615
30	UB102	76.272	53.755	22.517
50	105	79.226	54.633	24.593
50	108	78.511	54.126	24.385
50	107	78.238	55.773	22.465
50	111	79.393	55.339	24.054
50	113	79.055	54.009	25.046
50	114	78.246	53.167	25.079
50	115	80.148	56.208	23.940
50	119	77.323	53.613	23.710
50	118	79.659	54.778	24.881
50	121	76.631	53.990	22.641
50	124	77.629	55.369	22.260
50	125	78.437	54.134	24.303
50	128	79.404	54.103	25.301
50	130	78.412	54.669	23.743
50	131	76.881	54.445	22.436
50	133	78.556	54.335	24.221
50	134	78.745	54.398	24.347
50	135	78.681	53.273	25.408
50	137	76.599	54.641	21.958
50	298	79.327	55.919	23.408
50	299	76.758	56.074	20.684
50	UB293	79.124	54.764	24.360
50	UB294	78.861	55.431	23.430
50	UB295	75.815	55.178	20.637
50	UB296	78.861	53.545	25.316
50	UB297	78.446	53.294	25.152
	Max	81.029	60.117	28.037
	Average	78.753	54.084	24.669
	Min	75.815	52.201	20.163
	Std Dev	1.165	1.306	1.721



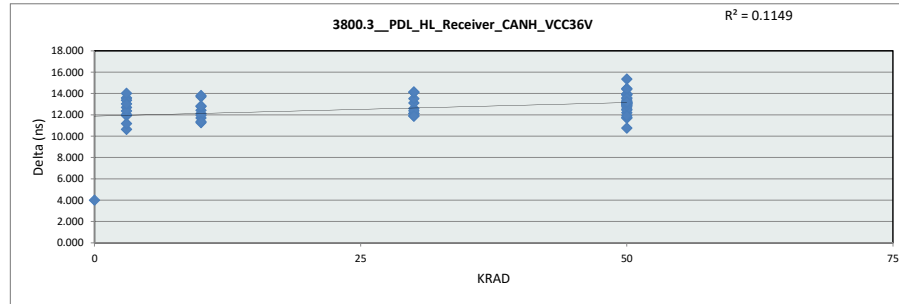
3800.2_PDL_LH_Receiver_CA					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	200	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	60.117	52.201	52.751	52.391	53.167
Average	60.117	52.955	53.658	53.733	54.585
Max	60.117	55.311	54.604	55.066	56.208
UL	200.000	200.000	200.000	200.000	200.000



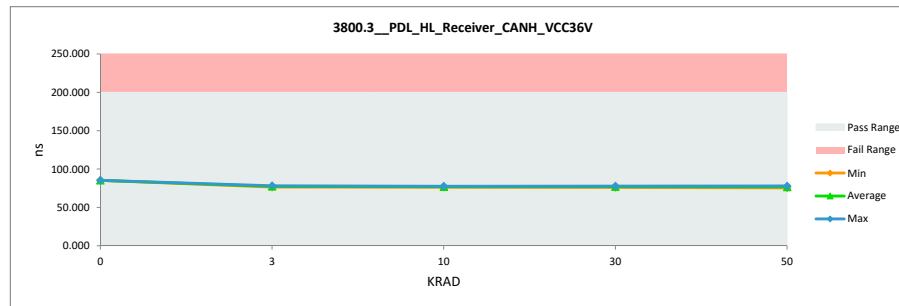
TID Report
TID_REPORT_HVD233_HKX_HDR

3800.3_PDL_HL_Receiver_CAN		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	200	200
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	89.305	85.299	4.006
3	1	91.809	78.214	13.595
3	2	90.301	76.924	13.377
3	3	89.570	77.523	12.047
3	6	90.330	77.626	12.704
3	11	88.305	77.657	10.648
3	UB14	88.443	76.509	11.934
3	UB16	89.792	77.417	12.375
3	UB18	90.311	77.284	13.027
3	UB19	89.479	78.285	11.194
3	UB22	91.206	77.190	14.016
10	23	89.570	77.144	12.426
10	24	88.541	76.415	12.126
10	25	90.791	77.082	13.709
10	28	88.904	77.630	11.274
10	30	89.183	77.463	11.720
10	UB33	88.906	76.934	11.972
10	UB35	88.465	77.100	11.365
10	UB36	90.057	76.251	13.806
10	UB39	89.773	76.980	12.793
10	UB40	90.308	77.468	12.840
30	43	90.439	77.835	12.604
30	44	88.890	76.762	12.128
30	48	89.206	77.066	12.140
30	50	90.395	77.273	13.122
30	52	90.862	77.335	13.527
30	UB96	88.464	76.578	11.886
30	UB98	89.258	76.870	12.388
30	UB99	90.589	76.467	14.122
30	UB101	90.262	76.118	14.144
30	UB102	89.297	77.392	11.905
50	105	91.283	75.930	15.353
50	108	89.035	76.834	12.201
50	107	88.420	76.705	11.715
50	111	91.409	77.903	13.506
50	113	89.539	76.388	13.151
50	114	89.792	76.714	13.078
50	115	88.897	76.358	12.539
50	119	91.711	77.807	13.904
50	118	88.722	75.954	12.768
50	121	90.477	76.582	13.895
50	124	90.783	76.809	13.974
50	125	89.990	77.031	12.959
50	128	89.442	76.346	13.096
50	130	89.946	76.728	13.218
50	131	89.375	76.907	12.468
50	133	89.770	76.446	13.324
50	134	89.663	77.917	11.746
50	135	88.699	77.934	10.765
50	137	89.607	76.657	12.950
50	298	90.426	75.955	14.471
50	299	90.024	75.616	14.408
50	UB293	88.803	76.879	11.924
50	UB294	90.470	77.604	12.866
50	UB295	89.834	76.724	13.110
50	UB296	90.010	76.408	13.602
50	UB297	89.588	76.376	13.212
	Max	91.809	85.299	15.353
	Average	89.767	77.116	12.651
	Min	88.305	75.616	4.006
	Std Dev	0.868	1.259	1.515

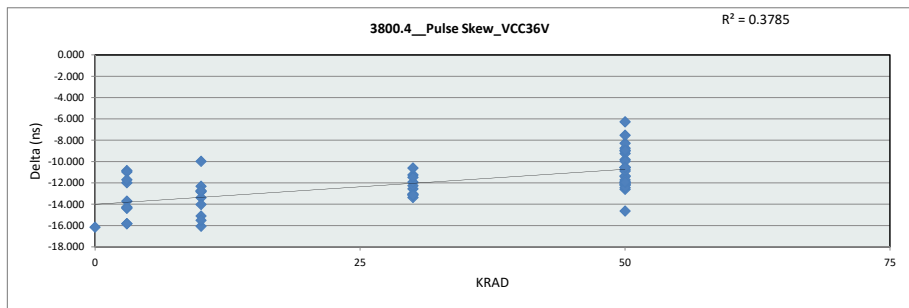


3800.3_PDL_HL_Receiver_CA					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	200	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	85.299	76.509	76.251	76.118	75.616
Average	85.299	77.463	77.047	76.970	76.750
Max	85.299	78.285	77.630	77.835	77.934
UL	200.000	200.000	200.000	200.000	200.000

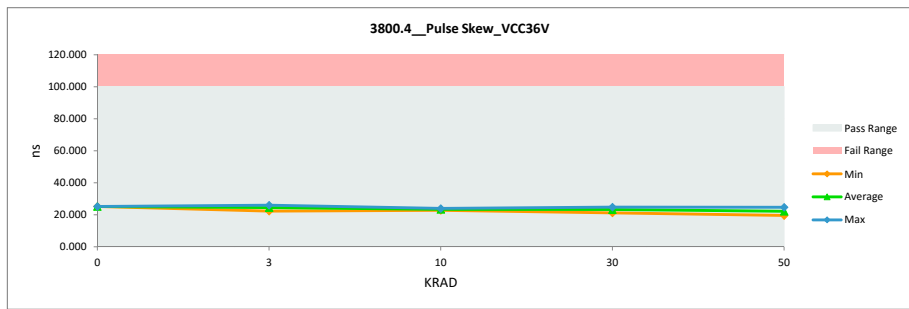


TID Report
TID_REPORT_HVD233_HKX_HDR

3800.4_Pulse Skew_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	100	100		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	9.025	25.182	-16.157
3	1	14.029	26.011	-11.982
3	2	13.218	24.067	-10.849
3	3	10.722	24.991	-14.269
3	6	11.347	22.315	-10.968
3	11	8.929	24.756	-15.827
3	UB14	8.239	24.065	-15.826
3	UB16	11.291	24.999	-13.708
3	UB18	9.900	24.286	-14.386
3	UB19	10.272	24.603	-14.331
3	UB22	13.292	24.989	-11.697
10	23	10.722	23.488	-12.766
10	24	8.112	23.214	-15.102
10	25	12.765	22.745	-9.980
10	28	9.640	23.026	-13.386
10	30	10.248	23.079	-12.831
10	UB33	7.877	23.943	-16.066
10	UB35	7.877	23.383	-15.506
10	UB36	11.184	23.500	-12.316
10	UB39	10.858	23.601	-12.743
10	UB40	9.885	23.910	-14.025
30	43	12.225	24.778	-12.553
30	44	11.003	24.371	-13.368
30	48	10.487	23.520	-13.033
30	50	10.354	23.456	-13.102
30	52	10.662	23.810	-13.148
30	UB96	10.266	21.512	-11.246
30	UB98	10.490	22.750	-12.260
30	UB99	11.444	23.374	-11.930
30	UB101	9.688	21.159	-11.471
30	UB102	13.026	23.637	-10.611
50	105	12.057	21.297	-9.240
50	108	10.524	22.707	-12.183
50	107	10.182	20.932	-10.750
50	111	12.016	22.564	-10.548
50	113	10.483	23.379	-11.896
50	114	11.546	23.547	-12.001
50	115	8.749	20.150	-11.401
50	119	14.388	24.194	-9.806
50	118	9.063	21.176	-12.113
50	121	13.846	22.591	-8.745
50	124	13.154	21.440	-8.286
50	125	11.553	22.898	-11.345
50	128	10.038	22.244	-12.206
50	130	11.533	22.059	-10.526
50	131	12.494	22.461	-9.967
50	133	11.214	22.111	-10.897
50	134	10.918	23.519	-12.601
50	135	10.019	24.661	-14.642
50	137	13.008	22.016	-9.008
50	298	11.099	20.037	-8.938
50	299	13.266	19.542	-6.276
50	UB293	9.679	22.115	-12.436
50	UB294	11.609	22.173	-10.564
50	UB295	14.018	21.546	-7.528
50	UB296	11.148	22.863	-11.715
50	UB297	11.142	23.082	-11.940
	Max	14.388	26.011	-6.276
	Average	11.014	23.032	-12.018
	Min	7.877	19.542	-16.157
	Std Dev	1.597	1.372	2.142

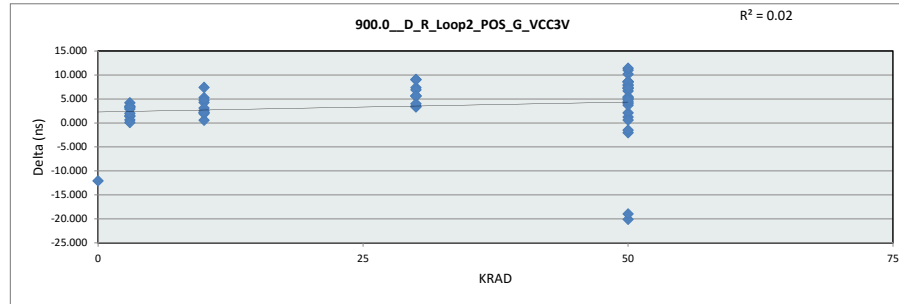


3800.4_Pulse Skew_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	100	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	25.182	22.315	22.745	21.159	19.542
Average	25.182	24.508	23.389	23.237	22.166
Max	25.182	26.011	23.943	24.778	24.661
UL	100.000	100.000	100.000	100.000	100.000

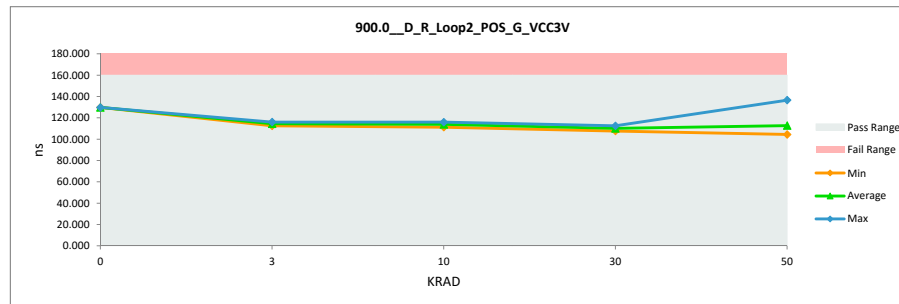


TID Report
TID_REPORT_HVD233_HKX_HDR

900.0_D_R_Loop2_POS_G_VCC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	160	160		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	117.687	129.746	-12.059
3	1	115.799	114.311	1.488
3	2	115.745	114.377	1.368
3	3	118.215	115.319	2.896
3	6	116.656	116.020	0.636
3	11	114.581	114.477	0.104
3	UB14	116.695	112.498	4.197
3	UB16	117.109	113.854	3.255
3	UB18	117.840	114.342	3.498
3	UB19	117.602	115.610	1.992
3	UB22	117.016	113.679	3.337
10	23	118.215	113.938	4.277
10	24	117.361	112.105	5.256
10	25	117.888	115.959	1.929
10	28	116.307	115.758	0.549
10	30	116.869	114.354	2.515
10	UB33	117.272	112.542	4.730
10	UB35	116.929	113.834	3.095
10	UB36	118.622	111.224	7.398
10	UB39	117.118	114.927	2.191
10	UB40	116.560	114.406	2.154
30	43	114.998	107.645	7.353
30	44	113.817	108.177	5.640
30	48	117.326	110.423	6.903
30	50	116.796	111.159	5.637
30	52	118.401	109.329	9.072
30	UB96	114.692	111.366	3.326
30	UB98	115.994	112.483	3.511
30	UB99	117.779	108.790	8.989
30	UB101	116.535	110.936	5.599
30	UB102	115.037	111.052	3.985
50	105	117.125	119.151	-2.026
50	108	117.233	108.685	8.548
50	107	116.265	109.045	7.220
50	111	117.161	109.877	7.284
50	113	117.732	109.970	7.762
50	114	115.410	104.425	10.985
50	115	117.968	107.813	10.155
50	119	116.460	136.575	-20.115
50	118	117.001	115.777	1.224
50	121	115.033	110.945	4.088
50	124	115.195	113.096	2.099
50	125	115.006	109.571	5.435
50	128	119.234	107.854	11.380
50	130	116.387	111.309	5.078
50	131	115.798	110.512	5.286
50	133	117.069	136.042	-18.973
50	134	117.809	114.104	3.705
50	135	117.916	111.263	6.653
50	137	113.508	112.896	0.612
50	298	115.360	110.950	4.410
50	299	117.151	118.667	-1.516
50	UB293	116.895	108.932	7.963
50	UB294	116.468	107.855	8.613
50	UB295	114.567	109.744	4.823
50	UB296	116.435	107.891	8.544
50	UB297	114.781	107.552	7.229
	Max	119.234	136.575	11.380
	Average	116.604	113.073	3.531
	Min	113.508	104.425	-20.115
	Std Dev	1.246	5.873	5.805



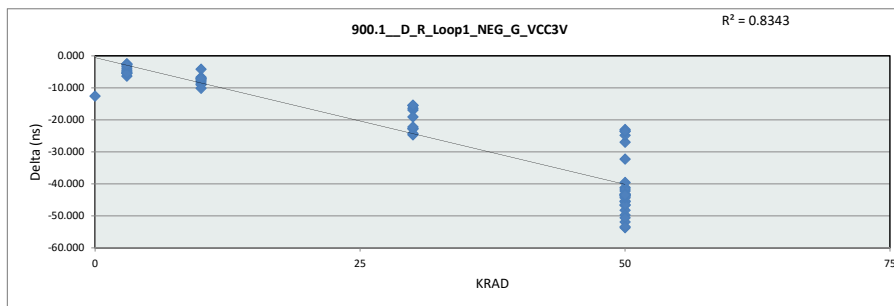
900.0_D_R_Loop2_POS_G_V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	160	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	129.746	112.498	111.224	107.645	104.425
Average	129.746	114.449	113.905	110.136	112.712
Max	129.746	116.020	115.959	112.483	136.575
UL	160.000	160.000	160.000	160.000	160.000



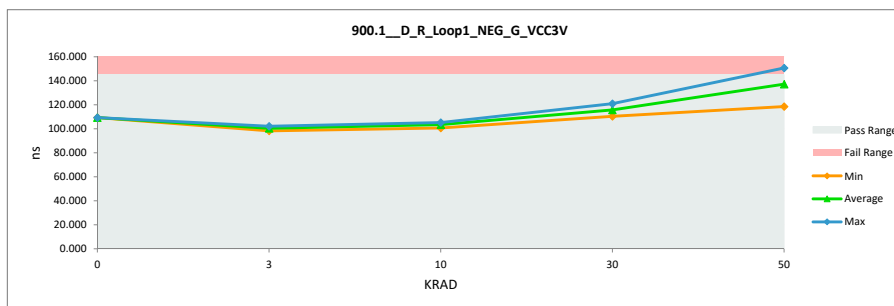
TID Report

TID_REPORT_HVD233_HKX_HDR

900.1_D_R_Loop1_NEG_G_VCC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	145	145		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	96.720	109.277	-12.557
3	1	97.093	102.131	-5.038
3	2	96.173	100.208	-4.035
3	3	96.997	99.612	-2.615
3	6	95.748	101.173	-5.425
3	11	94.010	100.294	-6.284
3	UB14	95.760	98.231	-2.471
3	UB16	95.883	100.560	-4.677
3	UB18	96.251	99.650	-3.399
3	UB19	96.411	101.809	-5.398
3	UB22	97.376	100.200	-2.824
10	23	96.997	105.176	-8.179
10	24	94.865	103.616	-8.751
10	25	97.609	104.874	-7.265
10	28	95.178	104.202	-9.024
10	30	96.155	103.134	-6.979
10	UB33	94.869	102.647	-7.778
10	UB35	94.146	104.273	-10.127
10	UB36	96.521	100.695	-4.174
10	UB39	96.255	102.913	-6.658
10	UB40	96.084	103.222	-7.138
30	43	96.245	120.877	-24.632
30	44	93.727	117.980	-24.253
30	48	95.030	117.809	-22.779
30	50	96.037	118.797	-22.760
30	52	98.504	120.705	-22.201
30	UB96	96.064	112.982	-16.918
30	UB98	95.553	111.924	-16.371
30	UB99	96.197	111.721	-15.524
30	UB101	94.957	110.365	-15.408
30	UB102	94.444	113.505	-19.061
50	105	98.441	130.719	-32.278
50	108	95.394	138.533	-43.139
50	107	93.232	138.765	-45.533
50	111	98.394	150.292	-51.898
50	113	96.369	138.557	-42.188
50	114	95.765	142.448	-46.683
50	115	94.912	140.261	-45.349
50	119	98.608	146.838	-48.230
50	118	94.690	138.474	-43.784
50	121	95.573	142.073	-46.500
50	124	96.994	138.080	-41.086
50	125	96.164	145.931	-49.767
50	128	96.161	137.778	-41.617
50	130	96.380	140.660	-44.280
50	131	95.768	139.356	-43.588
50	133	96.250	146.836	-50.586
50	134	96.887	150.601	-53.714
50	135	95.513	148.912	-53.399
50	137	94.661	134.195	-39.534
50	298	95.047	138.307	-43.260
50	299	96.089	139.548	-43.459
50	UB293	95.393	118.842	-23.449
50	UB294	96.717	123.679	-26.962
50	UB295	94.856	119.650	-24.794
50	UB296	95.470	118.477	-23.007
50	UB297	95.264	118.862	-23.598
	Max	98.608	150.601	-2.471
	Average	95.945	120.548	-24.603
	Min	93.232	98.231	-53.714
	Std Dev	1.145	17.482	17.431



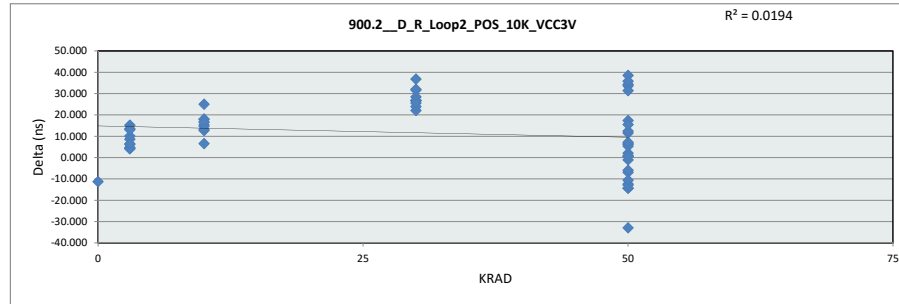
900.1_D_R_Loop1_NEG_G_V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	145	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	109.277	98.231	100.695	110.365	118.477
Average	109.277	100.387	103.475	115.667	137.180
Max	109.277	102.131	105.176	120.877	150.601
UL	145.000	145.000	145.000	145.000	145.000



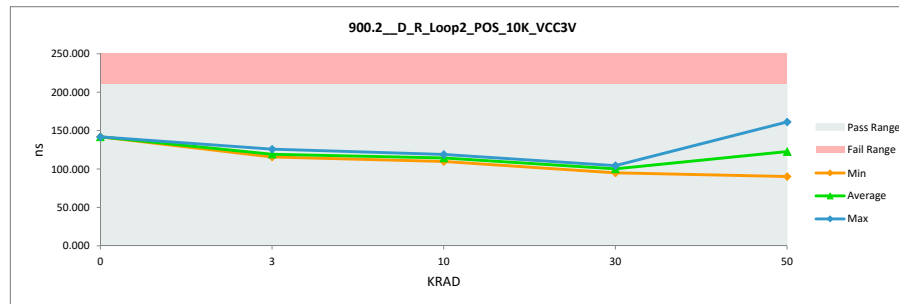
TID Report

TID_REPORT_HVD233_HKX_HDR

900.2_D_R_Loop2_POS_10K_V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	210	210		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	130.574	141.829	-11.255
3	1	125.795	115.683	10.112
3	2	124.505	120.086	4.419
3	3	130.568	125.889	4.679
3	6	125.744	119.476	6.268
3	11	123.030	118.947	4.083
3	UB14	126.107	117.489	8.618
3	UB16	130.923	115.744	15.179
3	UB18	133.759	120.214	13.545
3	UB19	128.972	122.585	6.387
3	UB22	129.674	116.610	13.064
10	23	130.568	112.549	18.019
10	24	134.748	109.769	24.979
10	25	132.922	114.961	17.961
10	28	128.708	116.028	12.680
10	30	129.596	114.244	15.352
10	UB33	128.982	114.329	14.653
10	UB35	128.780	112.137	16.643
10	UB36	129.933	113.263	16.670
10	UB39	130.246	117.087	13.159
10	UB40	125.582	119.011	6.571
30	43	126.740	95.064	31.676
30	44	124.537	97.789	26.748
30	48	129.261	100.788	28.473
30	50	129.343	102.674	26.669
30	52	129.303	97.322	31.981
30	UB96	124.983	102.889	22.094
30	UB98	128.228	104.365	23.863
30	UB99	134.275	97.474	36.801
30	UB101	128.376	101.533	26.843
30	UB102	127.167	101.642	25.525
50	105	127.991	142.362	-14.371
50	108	126.614	120.216	6.398
50	107	128.415	116.910	11.505
50	111	129.311	123.047	6.264
50	113	130.841	125.470	5.371
50	114	127.915	115.471	12.444
50	115	134.294	116.962	17.332
50	119	125.421	139.747	-14.326
50	118	130.906	143.348	-12.442
50	121	128.202	126.111	2.091
50	124	124.101	131.041	-6.940
50	125	127.373	126.753	0.620
50	128	132.025	116.550	15.475
50	130	129.203	130.311	-1.108
50	131	123.615	122.859	0.756
50	133	128.349	161.305	-32.956
50	134	131.937	131.337	0.600
50	135	135.573	128.422	7.151
50	137	123.338	136.212	-12.874
50	298	124.593	130.579	-5.986
50	299	132.148	142.791	-10.643
50	UB293	128.109	94.456	33.653
50	UB294	128.647	90.160	38.487
50	UB295	127.834	93.494	34.340
50	UB296	127.542	91.697	35.845
50	UB297	122.930	91.579	31.351
	Max	135.573	161.305	38.487
	Average	128.582	116.994	11.588
	Min	122.930	90.160	-32.956
	Std Dev	3.055	15.214	15.320

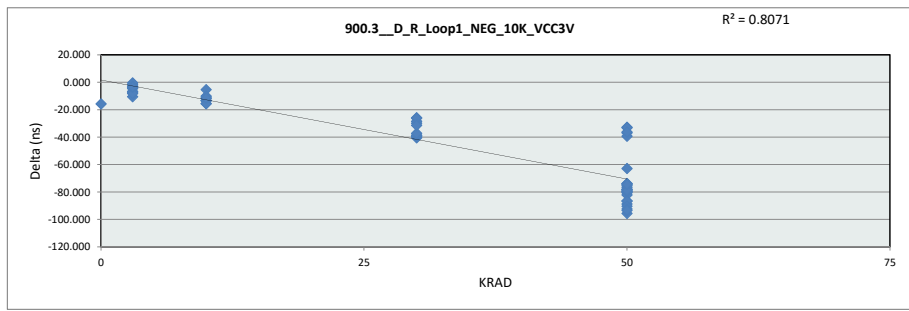


900.2_D_R_Loop2_POS_10K					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	210	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	141.829	115.683	109.769	95.064	90.160
Average	141.829	119.272	114.338	100.154	122.661
Max	141.829	125.889	119.011	104.365	161.305
UL	210.000	210.000	210.000	210.000	210.000

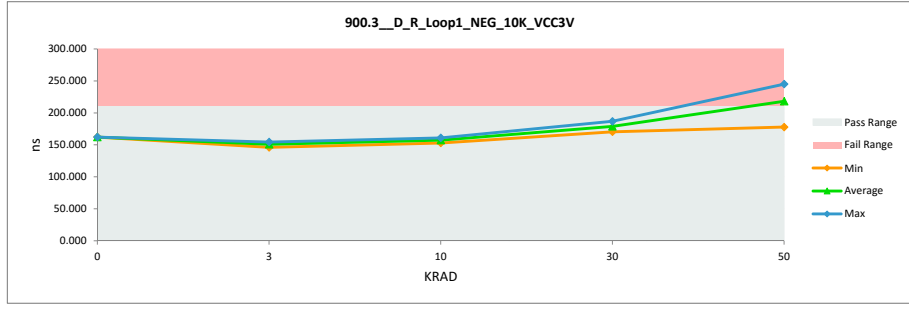


TID Report
TID_REPORT_HVD233_HKX_HDR

900.3_D_R_Loop1_NEG_10K_V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	210	210		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	146.526	162.207	-15.681
3	1	146.088	152.740	-6.652
3	2	145.236	149.087	-3.851
3	3	147.444	149.222	-1.778
3	6	144.931	152.142	-7.211
3	11	142.236	152.667	-10.431
3	UB14	145.648	146.071	-0.423
3	UB16	147.463	152.031	-4.568
3	UB18	147.045	150.217	-3.172
3	UB19	146.280	154.365	-8.085
3	UB22	147.523	150.939	-3.416
10	23	147.444	160.930	-13.486
10	24	144.683	157.844	-13.161
10	25	147.601	160.881	-13.280
10	28	144.453	159.989	-15.536
10	30	146.065	157.845	-11.780
10	UB33	144.276	155.024	-10.748
10	UB35	141.774	157.380	-15.606
10	UB36	147.475	152.849	-5.374
10	UB39	145.491	155.543	-10.052
10	UB40	144.577	156.055	-11.478
30	43	146.396	186.803	-40.407
30	44	142.493	182.143	-39.650
30	48	144.183	183.279	-39.096
30	50	145.919	184.496	-38.577
30	52	148.150	185.374	-37.224
30	UB96	146.106	175.884	-29.778
30	UB98	145.255	173.691	-28.436
30	UB99	145.377	171.217	-25.840
30	UB101	144.322	170.432	-26.110
30	UB102	144.132	175.515	-31.383
50	105	148.405	211.223	-62.818
50	108	144.553	224.279	-79.726
50	107	143.360	221.757	-78.397
50	111	149.417	245.011	-95.594
50	113	146.535	223.033	-76.498
50	114	144.665	231.178	-86.513
50	115	144.433	224.853	-80.420
50	119	148.712	237.412	-88.700
50	118	143.739	225.847	-82.108
50	121	147.496	225.338	-77.842
50	124	147.033	220.939	-73.906
50	125	146.867	233.360	-86.493
50	128	145.876	221.101	-75.225
50	130	146.137	224.283	-78.146
50	131	144.924	224.733	-79.809
50	133	144.206	234.599	-90.393
50	134	146.740	239.078	-92.338
50	135	144.865	238.265	-93.400
50	137	143.869	217.620	-73.751
50	298	143.116	222.045	-78.929
50	299	148.472	222.922	-74.450
50	UB293	144.275	181.137	-36.862
50	UB294	147.037	186.340	-39.303
50	UB295	146.441	179.162	-32.721
50	UB296	144.727	177.798	-33.071
50	UB297	143.326	179.610	-36.284
	Max	149.417	245.011	-0.423
	Average	145.646	187.856	-42.210
	Min	141.774	146.071	-95.594
	Std Dev	1.713	32.392	32.278

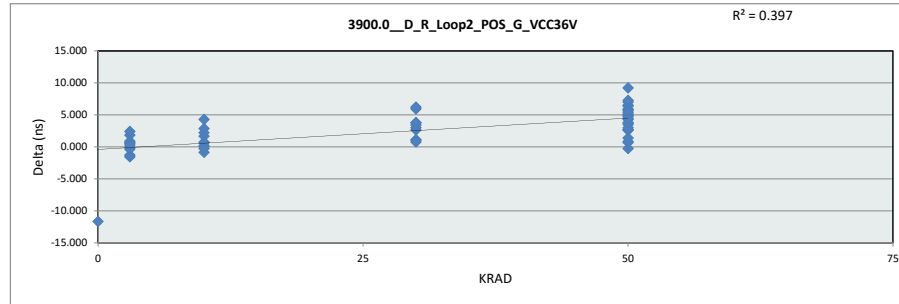


900.3_D_R_Loop1_NEG_10K					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	210	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	162.207	146.071	152.849	170.432	177.798
Average	162.207	150.948	157.434	178.883	218.189
Max	162.207	154.365	160.930	186.803	245.011
UL	210.000	210.000	210.000	210.000	210.000

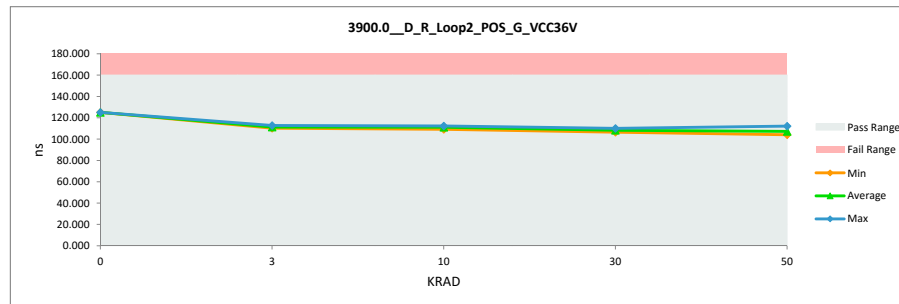


TID Report
TID_REPORT_HVD233_HKX_HDR

3900.0_D_R_Loop2_POS_G_VC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	160	160		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	113.490	125.135	-11.645
3	1	110.792	110.877	-0.085
3	2	110.208	111.754	-1.546
3	3	112.763	112.128	0.635
3	6	111.534	112.807	-1.273
3	11	110.337	110.683	-0.346
3	UB14	111.383	110.774	0.609
3	UB16	112.346	110.503	1.843
3	UB18	112.201	111.293	0.908
3	UB19	112.344	112.018	0.326
3	UB22	112.678	110.255	2.423
10	23	112.763	111.092	1.671
10	24	112.022	109.810	2.212
10	25	112.328	112.136	0.192
10	28	111.336	112.184	-0.848
10	30	111.230	111.158	0.072
10	UB33	112.869	109.995	2.874
10	UB35	112.283	111.537	0.746
10	UB36	113.557	109.249	4.308
10	UB39	112.908	112.268	0.640
10	UB40	111.842	112.101	-0.259
30	43	110.255	106.512	3.743
30	44	109.445	106.796	2.649
30	48	111.681	108.683	2.998
30	50	112.696	109.282	3.414
30	52	113.623	107.679	5.944
30	UB96	110.240	109.168	1.072
30	UB98	111.151	110.017	1.134
30	UB99	113.324	107.111	6.213
30	UB101	112.634	108.836	3.798
30	UB102	110.027	109.257	0.770
50	105	111.894	112.156	-0.262
50	108	111.671	105.866	5.805
50	107	110.791	106.086	4.705
50	111	113.435	106.423	7.012
50	113	112.304	106.374	5.930
50	114	110.499	104.112	6.387
50	115	112.630	106.102	6.528
50	119	111.128	106.216	4.912
50	118	112.149	109.482	2.667
50	121	110.383	106.075	4.308
50	124	111.746	109.122	2.624
50	125	110.953	106.008	4.945
50	128	114.685	105.457	9.228
50	130	111.062	108.356	2.706
50	131	110.707	107.175	3.532
50	133	111.311	107.573	3.738
50	134	112.427	106.791	5.636
50	135	112.994	105.735	7.259
50	137	109.198	108.495	0.703
50	298	111.276	108.275	3.001
50	299	111.822	110.992	0.830
50	UB293	111.696	107.933	3.763
50	UB294	112.301	107.168	5.133
50	UB295	109.721	108.329	1.392
50	UB296	112.007	106.620	5.387
50	UB297	110.576	106.205	4.371
	Max	114.685	125.135	9.228
	Average	111.748	109.162	2.587
	Min	109.198	104.112	-11.645
	Std Dev	1.154	3.134	3.127

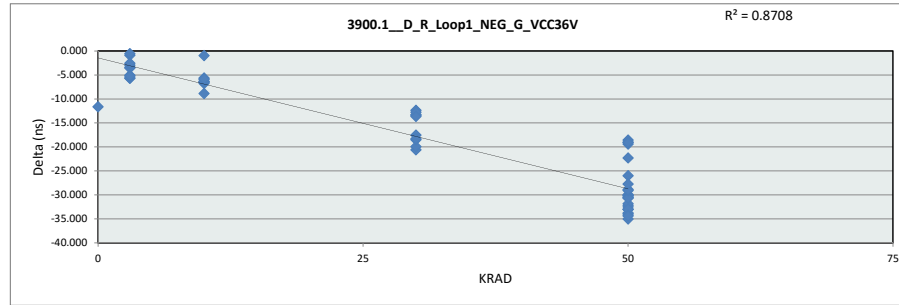


3900.0_D_R_Loop2_POS_G					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	160	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	125.135	110.255	109.249	106.512	104.112
Average	125.135	111.309	111.153	108.334	107.274
Max	125.135	112.807	112.268	110.017	112.156
UL	160.000	160.000	160.000	160.000	160.000

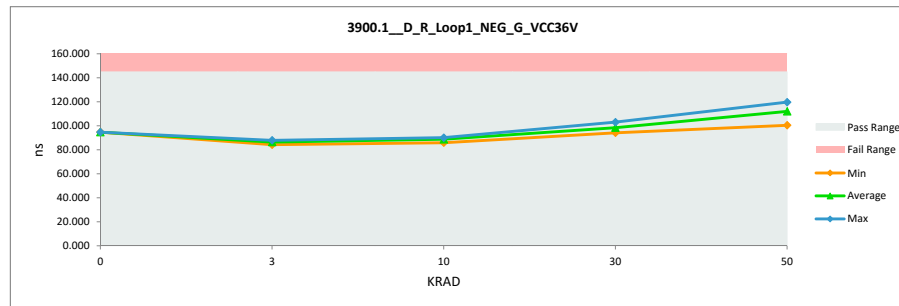


TID Report
TID_REPORT_HVD233_HKX_HDR

3900.1_D_R_Loop1_NEG_G_VC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	145	145		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	83.139	94.764	-11.625
3	1	84.243	87.832	-3.589
3	2	82.526	85.916	-3.390
3	3	84.521	85.431	-0.910
3	6	82.144	87.767	-5.623
3	11	80.917	86.607	-5.690
3	UB14	83.694	84.257	-0.563
3	UB16	82.211	87.293	-5.082
3	UB18	82.832	85.811	-2.979
3	UB19	82.675	87.926	-5.251
3	UB22	83.513	86.072	-2.559
10	23	84.521	90.152	-5.631
10	24	81.549	88.305	-6.756
10	25	83.542	90.038	-6.496
10	28	82.961	89.471	-6.510
10	30	82.425	88.806	-6.381
10	UB33	81.706	88.013	-6.307
10	UB35	80.909	89.785	-8.876
10	UB36	84.977	85.934	-0.957
10	UB39	82.564	88.400	-5.836
10	UB40	82.940	88.837	-5.897
30	43	82.511	103.101	-20.590
30	44	80.134	100.062	-19.928
30	48	82.767	100.301	-17.534
30	50	82.557	101.047	-18.490
30	52	84.628	102.923	-18.295
30	UB96	83.230	96.499	-13.269
30	UB98	82.012	95.409	-13.397
30	UB99	82.446	94.802	-12.356
30	UB101	81.447	94.203	-12.756
30	UB102	82.989	96.620	-13.631
50	105	84.467	110.454	-25.987
50	108	83.379	113.479	-30.100
50	107	81.828	114.877	-33.049
50	111	84.713	119.738	-35.025
50	113	82.548	113.165	-30.617
50	114	82.203	114.719	-32.516
50	115	81.468	114.506	-33.038
50	119	84.200	118.137	-33.937
50	118	81.327	113.490	-32.163
50	121	83.956	113.878	-29.922
50	124	83.109	113.307	-30.198
50	125	82.109	115.874	-33.765
50	128	82.649	113.132	-30.483
50	130	82.720	114.554	-31.834
50	131	83.579	114.257	-30.678
50	133	82.578	115.533	-32.955
50	134	83.905	118.110	-34.205
50	135	83.291	117.687	-34.396
50	137	82.403	111.275	-28.872
50	298	82.879	111.951	-29.072
50	299	84.268	111.997	-27.729
50	UB293	81.855	101.256	-19.401
50	UB294	83.180	105.468	-22.288
50	UB295	83.376	102.392	-19.016
50	UB296	81.911	100.495	-18.584
50	UB297	81.819	100.874	-19.055
	Max	84.977	119.738	-0.563
	Average	82.824	100.824	-18.001
	Min	80.134	84.257	-35.025
	Std Dev	1.057	11.789	11.734



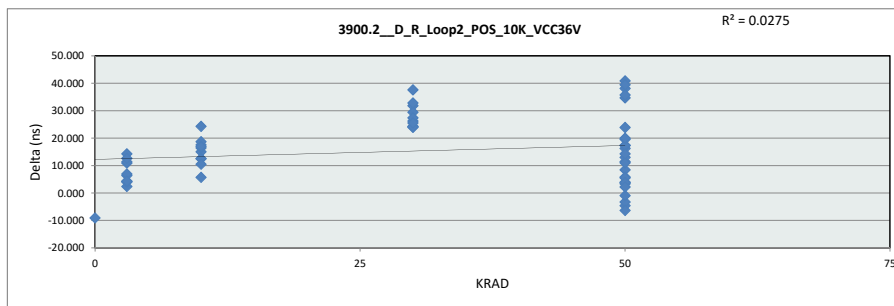
3900.1_D_R_Loop1_NEG_G					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	145	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	94.764	84.257	85.934	94.203	100.495
Average	94.764	86.491	88.774	98.497	112.100
Max	94.764	87.926	90.152	103.101	119.738
UL	145.000	145.000	145.000	145.000	145.000



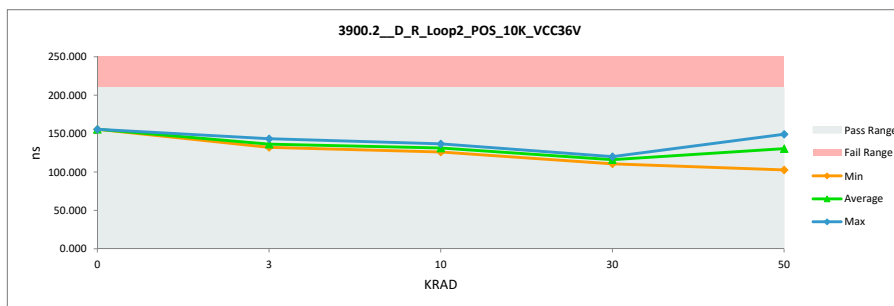
TID Report

TID_REPORT_HVD233_HKX_HDR

3900.2_D_R_Loop2_POS_10K				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	210	210		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	146.418	155.523	-9.105
3	1	142.929	132.025	10.904
3	2	139.427	137.046	2.381
3	3	147.504	143.216	4.288
3	6	142.367	135.963	6.404
3	11	139.691	135.676	4.015
3	UB14	141.698	134.782	6.916
3	UB16	147.162	132.881	14.281
3	UB18	148.872	137.472	11.400
3	UB19	144.672	140.329	4.343
3	UB22	145.786	133.115	12.671
10	23	147.504	129.964	17.540
10	24	150.370	126.034	24.336
10	25	150.781	132.060	18.721
10	28	145.341	132.774	12.567
10	30	145.595	130.553	15.042
10	UB33	143.720	131.176	12.544
10	UB35	145.042	128.573	16.469
10	UB36	147.057	130.103	16.954
10	UB39	144.944	134.427	10.517
10	UB40	142.307	136.576	5.731
30	43	142.421	110.584	31.837
30	44	140.796	114.553	26.243
30	48	146.302	116.819	29.483
30	50	143.728	119.745	23.983
30	52	145.547	112.727	32.820
30	UB96	143.171	118.856	24.315
30	UB98	144.146	119.993	24.153
30	UB99	149.531	111.890	37.641
30	UB101	144.101	116.696	27.405
30	UB102	143.405	117.873	25.532
50	105	143.712	148.303	-4.591
50	108	141.866	133.419	8.447
50	107	144.818	125.200	19.618
50	111	145.086	128.815	16.271
50	113	147.730	136.306	11.424
50	114	143.678	126.309	17.369
50	115	151.082	127.181	23.901
50	119	141.189	137.775	3.414
50	118	145.806	149.083	-3.277
50	121	145.353	132.329	13.024
50	124	141.171	142.101	-0.930
50	125	143.866	132.853	11.013
50	128	146.601	129.213	17.388
50	130	144.587	138.742	5.845
50	131	139.105	135.143	3.962
50	133	144.428	138.864	5.564
50	134	148.451	134.179	14.272
50	135	152.786	132.749	20.037
50	137	139.588	145.939	-6.351
50	298	142.714	138.934	3.780
50	299	150.187	147.962	2.225
50	UB293	143.275	108.560	34.715
50	UB294	143.619	102.729	40.890
50	UB295	144.801	106.655	38.146
50	UB296	143.806	104.317	39.489
50	UB297	140.268	104.521	35.747
	Max	152.786	155.523	40.890
	Average	144.770	129.442	15.328
	Min	139.105	102.729	-9.105
	Std Dev	3.089	12.126	12.277



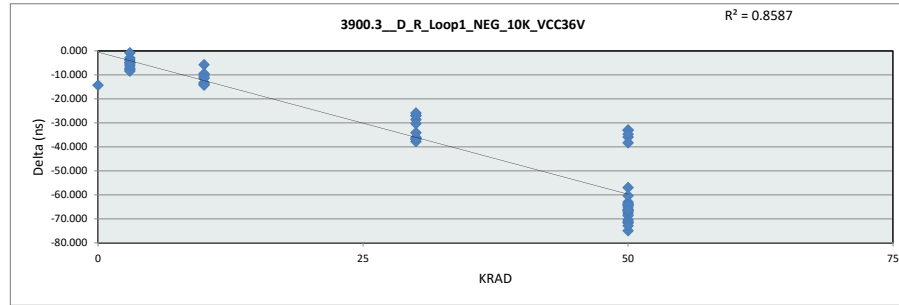
3900.2_D_R_Loop2_POS_10K					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	210	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	155.523	132.025	126.034	110.584	102.729
Average	155.523	136.251	131.224	115.974	130.315
Max	155.523	143.216	136.576	119.993	149.083
UL	210.000	210.000	210.000	210.000	210.000



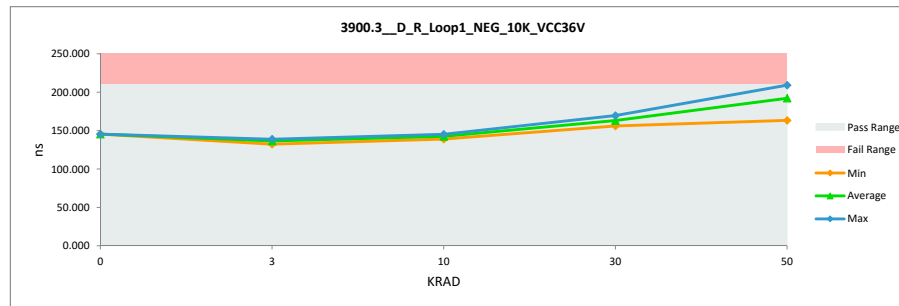
TID Report

TID_REPORT_HVD233_HKX_HDR

3900.3_D_R_Loop1_NEG_10K				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	ns	ns		
Max Limit	210	210		
Min Limit	0	0		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	131.135	145.401	-14.266
3	1	130.825	138.593	-7.768
3	2	130.070	135.568	-5.498
3	3	132.064	135.005	-2.941
3	6	130.174	137.474	-7.300
3	11	129.182	137.617	-8.435
3	UB14	131.527	132.355	-0.828
3	UB16	131.933	136.798	-4.865
3	UB18	131.977	135.763	-3.786
3	UB19	132.559	138.855	-6.296
3	UB22	131.938	136.687	-4.749
10	23	132.064	145.276	-13.212
10	24	129.950	143.411	-13.461
10	25	134.027	145.224	-11.197
10	28	130.756	144.967	-14.211
10	30	133.007	142.488	-9.481
10	UB33	129.576	139.984	-10.408
10	UB35	128.876	142.950	-14.074
10	UB36	133.211	138.989	-5.778
10	UB39	130.422	140.331	-9.909
10	UB40	129.695	141.039	-11.344
30	43	133.070	169.599	-36.529
30	44	128.084	165.842	-37.758
30	48	131.000	167.037	-36.037
30	50	131.138	167.951	-36.813
30	52	134.005	168.060	-34.055
30	UB96	131.552	160.171	-28.619
30	UB98	132.033	158.968	-26.935
30	UB99	129.952	156.938	-26.986
30	UB101	130.111	155.996	-25.885
30	UB102	130.432	160.728	-30.296
50	105	134.672	191.633	-56.961
50	108	130.371	197.029	-66.658
50	107	129.673	195.745	-66.072
50	111	134.183	209.146	-74.963
50	113	132.437	196.289	-63.852
50	114	132.157	200.171	-68.014
50	115	130.946	197.094	-66.148
50	119	133.008	204.696	-71.688
50	118	128.982	199.995	-71.013
50	121	132.758	195.786	-63.028
50	124	131.892	195.480	-63.588
50	125	131.705	200.391	-68.686
50	128	130.982	195.298	-64.316
50	130	132.650	197.645	-64.995
50	131	130.850	197.994	-67.144
50	133	131.538	201.917	-70.379
50	134	131.834	203.282	-71.448
50	135	130.679	203.534	-72.855
50	137	130.301	194.579	-64.278
50	298	128.525	194.924	-66.399
50	299	133.799	194.167	-60.368
50	UB293	130.650	166.504	-35.854
50	UB294	131.750	170.017	-38.267
50	UB295	131.351	164.351	-33.000
50	UB296	130.389	163.376	-32.987
50	UB297	130.383	165.068	-34.685
	Max	134.672	209.146	-0.828
	Average	131.312	167.757	-36.445
	Min	128.084	132.355	-74.963
	Std Dev	1.475	25.829	25.638

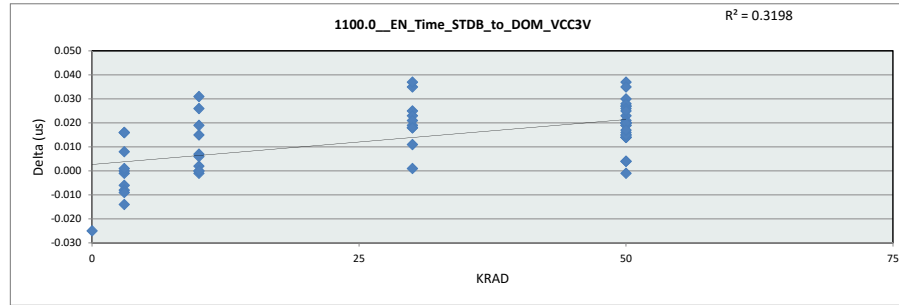


3900.3_D_R_Loop1_NEG_10K					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	210	ns			
Min Limit	0	ns			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	145.401	132.355	138.989	155.996	163.376
Average	145.401	136.472	142.466	163.129	192.158
Max	145.401	138.855	145.276	169.599	209.146
UL	210.000	210.000	210.000	210.000	210.000

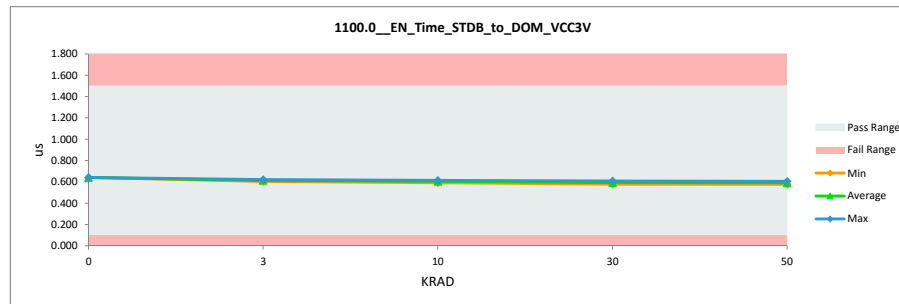


TID Report
TID_REPORT_HVD233_HKX_HDR

1100.0_EN_Time_STDB_to_DO				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	us	us		
Max Limit	1.5	1.5		
Min Limit	0.1	0.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.616	0.641	-0.025
3	1	0.622	0.614	0.008
3	2	0.609	0.610	-0.001
3	3	0.602	0.616	-0.014
3	6	0.615	0.615	0.000
3	11	0.610	0.609	0.001
3	UB14	0.620	0.604	0.016
3	UB16	0.608	0.614	-0.006
3	UB18	0.621	0.605	0.016
3	UB19	0.612	0.620	-0.008
3	UB22	0.612	0.621	-0.009
10	23	0.602	0.600	0.002
10	24	0.603	0.604	-0.001
10	25	0.611	0.604	0.007
10	28	0.630	0.611	0.019
10	30	0.622	0.596	0.026
10	UB33	0.604	0.604	0.000
10	UB35	0.614	0.614	0.000
10	UB36	0.622	0.591	0.031
10	UB39	0.617	0.611	0.006
10	UB40	0.625	0.610	0.015
30	43	0.613	0.588	0.025
30	44	0.596	0.578	0.018
30	48	0.609	0.590	0.019
30	50	0.612	0.589	0.023
30	52	0.627	0.592	0.035
30	UB96	0.618	0.607	0.011
30	UB98	0.615	0.594	0.021
30	UB99	0.626	0.589	0.037
30	UB101	0.607	0.589	0.018
30	UB102	0.609	0.608	0.001
50	105	0.619	0.589	0.030
50	108	0.613	0.576	0.037
50	107	0.605	0.590	0.015
50	111	0.614	0.600	0.014
50	113	0.613	0.593	0.020
50	114	0.611	0.576	0.035
50	115	0.615	0.588	0.027
50	119	0.616	0.600	0.016
50	118	0.606	0.592	0.014
50	121	0.606	0.586	0.020
50	124	0.623	0.596	0.027
50	125	0.597	0.593	0.004
50	128	0.613	0.585	0.028
50	130	0.613	0.590	0.023
50	131	0.611	0.592	0.019
50	133	0.608	0.594	0.014
50	134	0.611	0.596	0.015
50	135	0.615	0.589	0.026
50	137	0.610	0.585	0.025
50	298	0.606	0.586	0.020
50	299	0.611	0.590	0.021
50	UB293	0.615	0.596	0.019
50	UB294	0.609	0.605	0.004
50	UB295	0.604	0.605	-0.001
50	UB296	0.612	0.592	0.020
50	UB297	0.614	0.597	0.017
	Max	0.630	0.641	0.037
	Average	0.613	0.599	0.014
	Min	0.596	0.576	-0.025
	Std Dev	0.007	0.012	0.013

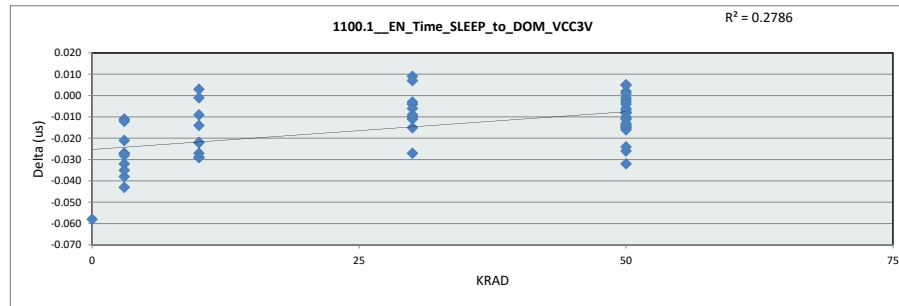


1100.0_EN_Time_STDB_to_D					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	1.5	us			
Min Limit	0.1	us			
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	0.641	0.604	0.591	0.578	0.576
Average	0.641	0.613	0.605	0.592	0.592
Max	0.641	0.621	0.614	0.608	0.605
UL	1.500	1.500	1.500	1.500	1.500

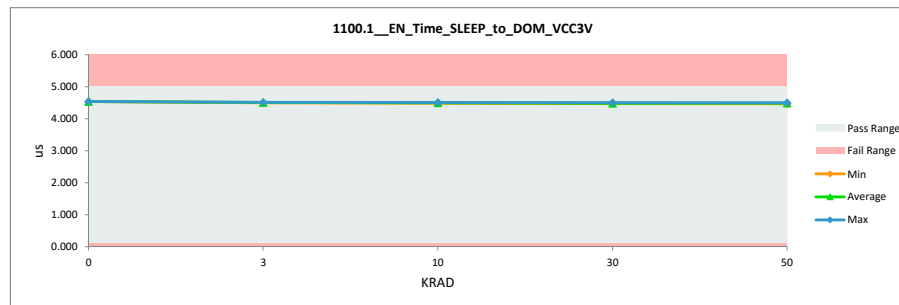


TID Report
TID_REPORT_HVD233_HKX_HDR

1100.1_EN_Time_SLEEP_to_DC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	us	us		
Max Limit	5	5		
Min Limit	0.1	0.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	4.482	4.540	-0.058
3	1	4.489	4.510	-0.021
3	2	4.476	4.503	-0.027
3	3	4.468	4.511	-0.043
3	6	4.482	4.509	-0.027
3	11	4.476	4.504	-0.028
3	UB14	4.487	4.498	-0.011
3	UB16	4.475	4.507	-0.032
3	UB18	4.488	4.500	-0.012
3	UB19	4.477	4.515	-0.038
3	UB22	4.480	4.515	-0.035
10	23	4.468	4.495	-0.027
10	24	4.470	4.499	-0.029
10	25	4.478	4.500	-0.022
10	28	4.496	4.505	-0.009
10	30	4.489	4.490	-0.001
10	UB33	4.470	4.499	-0.029
10	UB35	4.480	4.509	-0.029
10	UB36	4.488	4.485	0.003
10	UB39	4.484	4.506	-0.022
10	UB40	4.491	4.505	-0.014
30	43	4.479	4.482	-0.003
30	44	4.462	4.473	-0.011
30	48	4.474	4.484	-0.010
30	50	4.479	4.483	-0.004
30	52	4.494	4.487	0.007
30	UB96	4.485	4.500	-0.015
30	UB98	4.482	4.488	-0.006
30	UB99	4.492	4.483	0.009
30	UB101	4.474	4.483	-0.009
30	UB102	4.475	4.502	-0.027
50	105	4.486	4.484	0.002
50	108	4.478	4.473	0.005
50	107	4.471	4.486	-0.015
50	111	4.481	4.496	-0.015
50	113	4.479	4.487	-0.008
50	114	4.476	4.471	0.005
50	115	4.481	4.483	-0.002
50	119	4.482	4.496	-0.014
50	118	4.473	4.488	-0.015
50	121	4.472	4.482	-0.010
50	124	4.489	4.490	-0.001
50	125	4.463	4.489	-0.026
50	128	4.481	4.480	0.001
50	130	4.479	4.486	-0.007
50	131	4.476	4.487	-0.011
50	133	4.474	4.490	-0.016
50	134	4.478	4.492	-0.014
50	135	4.482	4.485	-0.003
50	137	4.475	4.479	-0.004
50	298	4.473	4.481	-0.008
50	299	4.477	4.485	-0.008
50	UB293	4.481	4.492	-0.011
50	UB294	4.477	4.501	-0.024
50	UB295	4.469	4.501	-0.032
50	UB296	4.480	4.486	-0.006
50	UB297	4.479	4.492	-0.013
	Max	4.496	4.540	0.009
	Average	4.479	4.494	-0.015
	Min	4.462	4.471	-0.058
	Std Dev	0.007	0.013	0.013

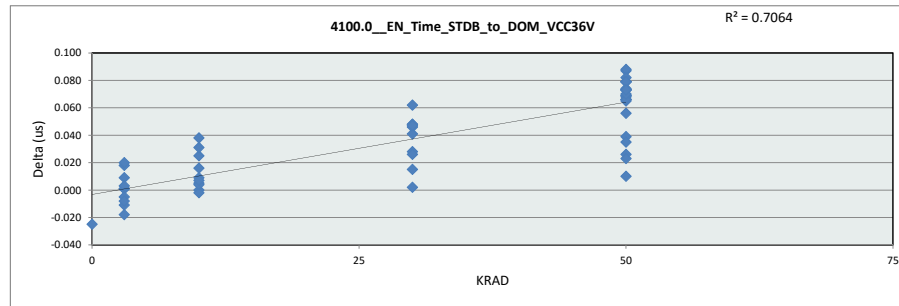


1100.1_EN_Time_SLEEP_to					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	5	us			
Min Limit	0.1	us			
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	4.540	4.498	4.485	4.473	4.471
Average	4.540	4.507	4.499	4.487	4.487
Max	4.540	4.515	4.509	4.502	4.501
UL	5.000	5.000	5.000	5.000	5.000

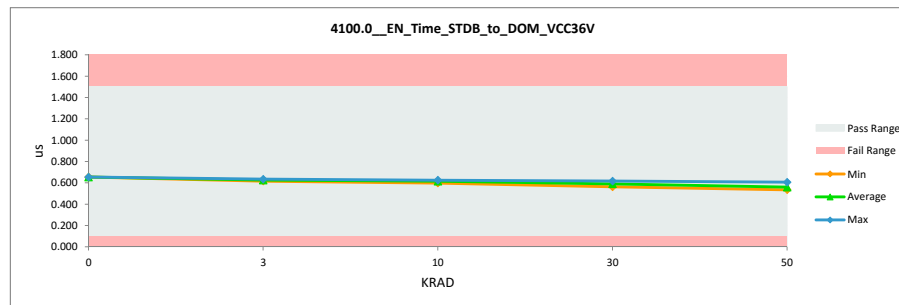


TID Report
TID_REPORT_HVD233_HKX_HDR

4100.0_EN_Time_STDB_to_DO				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	us	us		
Max Limit	1.5	1.5		
Min Limit	0.1	0.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	0.629	0.654	-0.025
3	1	0.636	0.627	0.009
3	2	0.622	0.621	0.001
3	3	0.612	0.630	-0.018
3	6	0.628	0.627	0.001
3	11	0.624	0.621	0.003
3	UB14	0.634	0.616	0.018
3	UB16	0.621	0.626	-0.005
3	UB18	0.637	0.617	0.020
3	UB19	0.624	0.635	-0.011
3	UB22	0.625	0.633	-0.008
10	23	0.612	0.612	0.000
10	24	0.618	0.613	0.005
10	25	0.624	0.615	0.009
10	28	0.646	0.621	0.025
10	30	0.637	0.606	0.031
10	UB33	0.617	0.619	-0.002
10	UB35	0.629	0.625	0.004
10	UB36	0.636	0.598	0.038
10	UB39	0.630	0.623	0.007
10	UB40	0.639	0.623	0.016
30	43	0.628	0.580	0.048
30	44	0.609	0.563	0.046
30	48	0.623	0.582	0.041
30	50	0.626	0.578	0.048
30	52	0.641	0.579	0.062
30	UB96	0.632	0.617	0.015
30	UB98	0.628	0.600	0.028
30	UB99	0.641	0.594	0.047
30	UB101	0.620	0.594	0.026
30	UB102	0.619	0.617	0.002
50	105	0.633	0.554	0.079
50	108	0.625	0.538	0.087
50	107	0.617	0.552	0.065
50	111	0.626	0.558	0.068
50	113	0.627	0.554	0.073
50	114	0.623	0.535	0.088
50	115	0.630	0.548	0.082
50	119	0.630	0.557	0.073
50	118	0.620	0.554	0.066
50	121	0.618	0.549	0.069
50	124	0.638	0.559	0.079
50	125	0.609	0.553	0.056
50	128	0.627	0.548	0.079
50	130	0.626	0.552	0.074
50	131	0.623	0.554	0.069
50	133	0.619	0.553	0.066
50	134	0.623	0.557	0.066
50	135	0.629	0.550	0.079
50	137	0.622	0.549	0.073
50	298	0.619	0.549	0.070
50	299	0.623	0.550	0.073
50	UB293	0.628	0.602	0.026
50	UB294	0.623	0.600	0.023
50	UB295	0.616	0.606	0.010
50	UB296	0.626	0.587	0.039
50	UB297	0.627	0.592	0.035
	Max	0.646	0.654	0.088
	Average	0.626	0.588	0.038
	Min	0.609	0.535	-0.025
	Std Dev	0.008	0.033	0.032

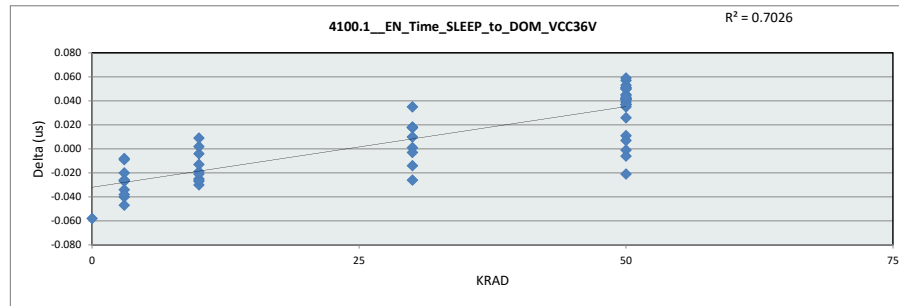


4100.0_EN_Time_STDB_to_D					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	1.5	us			
Min Limit	0.1	us			
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	0.654	0.616	0.598	0.563	0.535
Average	0.654	0.625	0.616	0.590	0.560
Max	0.654	0.635	0.625	0.617	0.606
UL	1.500	1.500	1.500	1.500	1.500

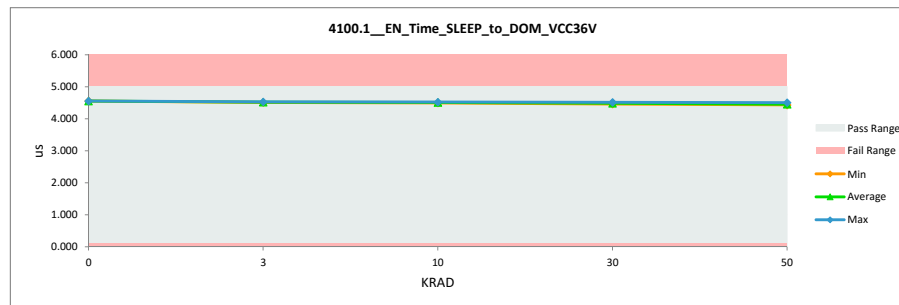


TID Report
TID_REPORT_HVD233_HKX_HDR

4100.1_EN_Time_SLEEP_to_DC				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	us	us		
Max Limit	5	5		
Min Limit	0.1	0.1		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	4.495	4.553	-0.058
3	1	4.503	4.523	-0.020
3	2	4.489	4.516	-0.027
3	3	4.479	4.526	-0.047
3	6	4.496	4.522	-0.026
3	11	4.490	4.516	-0.026
3	UB14	4.501	4.509	-0.008
3	UB16	4.487	4.521	-0.034
3	UB18	4.504	4.513	-0.009
3	UB19	4.490	4.530	-0.040
3	UB22	4.491	4.529	-0.038
10	23	4.479	4.506	-0.027
10	24	4.485	4.510	-0.025
10	25	4.491	4.510	-0.019
10	28	4.512	4.516	-0.004
10	30	4.504	4.502	0.002
10	UB33	4.483	4.513	-0.030
10	UB35	4.495	4.521	-0.026
10	UB36	4.503	4.494	0.009
10	UB39	4.497	4.518	-0.021
10	UB40	4.505	4.518	-0.013
30	43	4.494	4.476	0.018
30	44	4.475	4.457	0.018
30	48	4.489	4.479	0.010
30	50	4.492	4.474	0.018
30	52	4.508	4.473	0.035
30	UB96	4.498	4.512	-0.014
30	UB98	4.495	4.494	0.001
30	UB99	4.507	4.489	0.018
30	UB101	4.486	4.489	-0.003
30	UB102	4.486	4.512	-0.026
50	105	4.500	4.449	0.051
50	108	4.491	4.434	0.057
50	107	4.483	4.448	0.035
50	111	4.493	4.452	0.041
50	113	4.492	4.450	0.042
50	114	4.490	4.431	0.059
50	115	4.496	4.443	0.053
50	119	4.495	4.453	0.042
50	118	4.486	4.449	0.037
50	121	4.485	4.443	0.042
50	124	4.503	4.453	0.050
50	125	4.475	4.449	0.026
50	128	4.493	4.443	0.050
50	130	4.492	4.447	0.045
50	131	4.489	4.450	0.039
50	133	4.485	4.448	0.037
50	134	4.489	4.452	0.037
50	135	4.496	4.445	0.051
50	137	4.488	4.443	0.045
50	298	4.485	4.444	0.041
50	299	4.490	4.447	0.043
50	UB293	4.495	4.496	-0.001
50	UB294	4.489	4.495	-0.006
50	UB295	4.481	4.502	-0.021
50	UB296	4.493	4.482	0.011
50	UB297	4.493	4.486	0.007
	Max	4.512	4.553	0.059
	Average	4.492	4.483	0.009
	Min	4.475	4.431	-0.058
	Std Dev	0.008	0.033	0.032

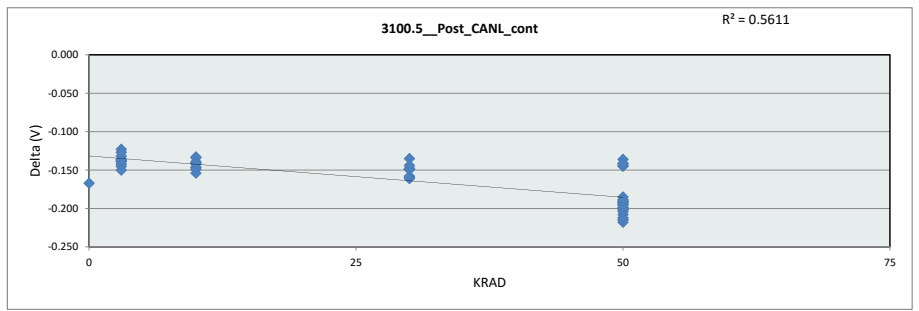


4100.1_EN_Time_SLEEP_to_					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	5	us			
Min Limit	0.1	us			
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	4.553	4.509	4.494	4.457	4.431
Average	4.553	4.521	4.511	4.486	4.455
Max	4.553	4.530	4.521	4.512	4.502
UL	5.000	5.000	5.000	5.000	5.000

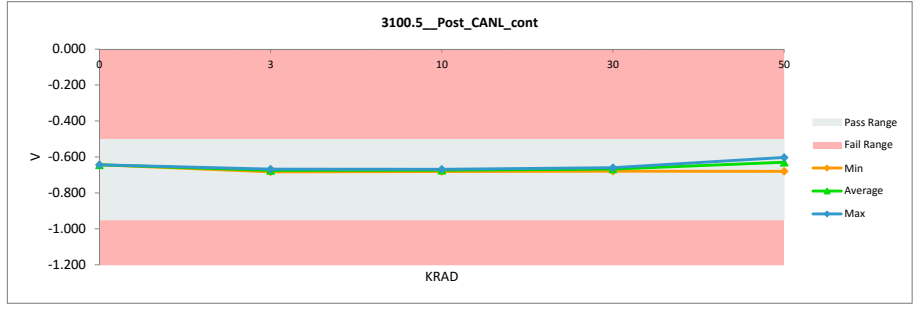


TID Report
TID_REPORT_HVD233_HKX_HDR

3100.5_Post_CANL_cont				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	-0.5	-0.5		
Min Limit	-0.95	-0.95		
KRAD	Serial #	PRE-RAD	POST-RAD	Delta
0	C1	-0.811	-0.644	-0.167
3	1	-0.817	-0.672	-0.145
3	2	-0.814	-0.676	-0.138
3	3	-0.818	-0.668	-0.150
3	6	-0.806	-0.683	-0.123
3	11	-0.815	-0.676	-0.139
3	UB14	-0.812	-0.676	-0.136
3	UB16	-0.810	-0.678	-0.132
3	UB18	-0.812	-0.670	-0.142
3	UB19	-0.808	-0.681	-0.127
3	UB22	-0.809	-0.672	-0.137
10	23	-0.818	-0.679	-0.139
10	24	-0.814	-0.681	-0.133
10	25	-0.811	-0.677	-0.134
10	28	-0.821	-0.672	-0.149
10	30	-0.815	-0.669	-0.146
10	UB33	-0.815	-0.673	-0.142
10	UB35	-0.815	-0.674	-0.141
10	UB36	-0.817	-0.676	-0.141
10	UB39	-0.824	-0.670	-0.154
10	UB40	-0.819	-0.672	-0.147
30	43	-0.821	-0.660	-0.161
30	44	-0.814	-0.665	-0.149
30	48	-0.822	-0.662	-0.160
30	50	-0.813	-0.665	-0.148
30	52	-0.820	-0.662	-0.158
30	UB96	-0.816	-0.667	-0.149
30	UB98	-0.820	-0.671	-0.149
30	UB99	-0.814	-0.679	-0.135
30	UB101	-0.819	-0.671	-0.148
30	UB102	-0.819	-0.675	-0.144
50	105	-0.826	-0.612	-0.214
50	108	-0.812	-0.627	-0.185
50	107	-0.821	-0.613	-0.208
50	111	-0.821	-0.603	-0.218
50	113	-0.819	-0.630	-0.189
50	114	-0.820	-0.626	-0.194
50	115	-0.816	-0.617	-0.199
50	119	-0.814	-0.618	-0.196
50	118	-0.813	-0.621	-0.192
50	121	-0.823	-0.608	-0.215
50	124	-0.819	-0.617	-0.202
50	125	-0.823	-0.611	-0.212
50	128	-0.818	-0.617	-0.201
50	130	-0.816	-0.624	-0.192
50	131	-0.814	-0.619	-0.195
50	133	-0.813	-0.622	-0.191
50	134	-0.816	-0.616	-0.200
50	135	-0.816	-0.616	-0.200
50	137	-0.820	-0.631	-0.189
50	298	-0.826	-0.622	-0.204
50	299	-0.820	-0.621	-0.199
50	UB293	-0.819	-0.674	-0.145
50	UB294	-0.816	-0.680	-0.136
50	UB295	-0.817	-0.673	-0.144
50	UB296	-0.818	-0.677	-0.141
50	UB297	-0.817	-0.675	-0.142
	Max	-0.806	-0.603	-0.123
	Average	-0.817	-0.652	-0.164
	Min	-0.826	-0.683	-0.218
	Std Dev	0.004	0.027	0.029



3100.5_Post_CANL_cont					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	-0.5	V			
Min Limit	-0.95	V			
KRAD	0	3	10	30	50
LL	-0.950	-0.950	-0.950	-0.950	-0.950
Min	-0.644	-0.683	-0.681	-0.679	-0.680
Average	-0.644	-0.675	-0.674	-0.668	-0.630
Max	-0.644	-0.668	-0.669	-0.660	-0.603
UL	-0.500	-0.500	-0.500	-0.500	-0.500



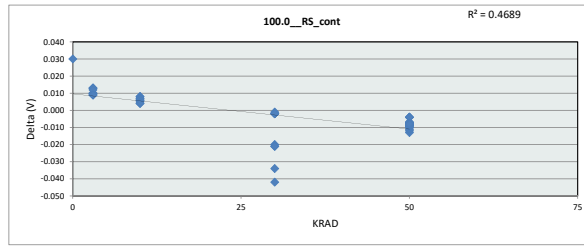
Delta Threshold 10.00%

TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

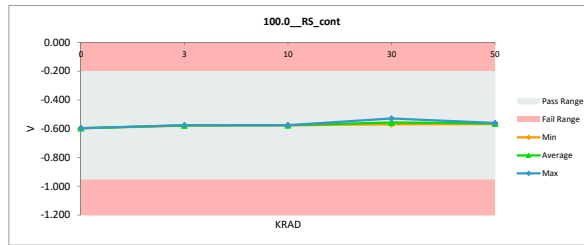
100.0_RS_cont		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	-0.2	-0.2
Min Limit	-0.95	-0.95

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	-0.566	-0.596	0.030
3	1	-0.565	-0.578	0.013
3	2	-0.565	-0.578	0.013
3	3	-0.568	-0.577	0.009
3	6	-0.565	-0.578	0.013
3	11	-0.565	-0.575	0.010
3	UB14	-0.566	-0.576	0.010
3	UB16	-0.566	-0.576	0.010
3	UB18	-0.567	-0.576	0.009
3	UB19	-0.567	-0.579	0.012
3	UB22	-0.567	-0.576	0.009
10	23	-0.568	-0.575	0.007
10	24	-0.568	-0.576	0.008
10	25	-0.568	-0.576	0.008
10	28	-0.569	-0.576	0.007
10	30	-0.569	-0.575	0.006
10	UB33	-0.570	-0.576	0.006
10	UB35	-0.570	-0.576	0.006
10	UB36	-0.571	-0.575	0.004
10	UB39	-0.571	-0.576	0.005
10	UB40	-0.571	-0.575	0.004
30	43	-0.571	-0.537	-0.034
30	44	-0.571	-0.551	-0.020
30	48	-0.572	-0.551	-0.021
30	50	-0.571	-0.550	-0.021
30	52	-0.571	-0.529	-0.042
30	UB96	-0.571	-0.569	-0.002
30	UB98	-0.571	-0.569	-0.002
30	UB99	-0.571	-0.569	-0.002
30	UB101	-0.570	-0.569	-0.001
30	UB102	-0.571	-0.569	-0.002
50	105	-0.575	-0.562	-0.013
50	108	-0.571	-0.562	-0.009
50	107	-0.571	-0.564	-0.007
50	111	-0.571	-0.564	-0.007
50	113	-0.571	-0.562	-0.009
50	114	-0.572	-0.560	-0.012
50	115	-0.571	-0.561	-0.010
50	119	-0.571	-0.564	-0.007
50	118	-0.571	-0.563	-0.008
50	121	-0.572	-0.564	-0.008
50	124	-0.571	-0.560	-0.011
50	125	-0.572	-0.564	-0.008
50	128	-0.571	-0.562	-0.009
50	130	-0.571	-0.567	-0.004
50	131	-0.571	-0.562	-0.009
50	133	-0.571	-0.567	-0.004
50	134	-0.571	-0.564	-0.007
50	135	-0.571	-0.563	-0.008
50	137	-0.571	-0.561	-0.010
50	298	-0.571	-0.562	-0.009
50	299	-0.572	-0.563	-0.009
50	UB293	-0.571	-0.562	-0.009
50	UB294	-0.572	-0.568	-0.004
50	UB295	-0.571	-0.563	-0.008
50	UB296	-0.571	-0.563	-0.008
50	UB297	-0.571	-0.563	-0.008
50	Max	-0.565	-0.529	0.030
50	Average	-0.570	-0.567	-0.003
50	Min	-0.575	-0.596	-0.042
50	Std Dev	0.002	0.011	0.012



100.0_RS_cont		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	-0.2	V
Min Limit	-0.95	V

KRAD	0	3	10	30	50
LL	-0.950	-0.950	-0.950	-0.950	-0.950
Min	-0.596	-0.579	-0.576	-0.569	-0.568
Average	-0.596	-0.577	-0.576	-0.556	-0.563
Max	-0.596	-0.575	-0.575	-0.529	-0.560
UL	-0.200	-0.200	-0.200	-0.200	-0.200

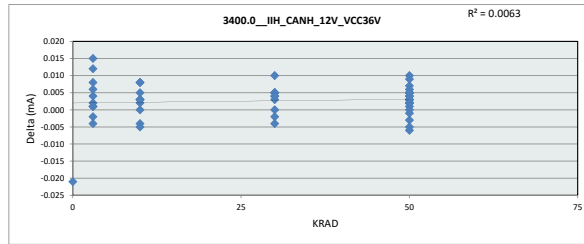


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

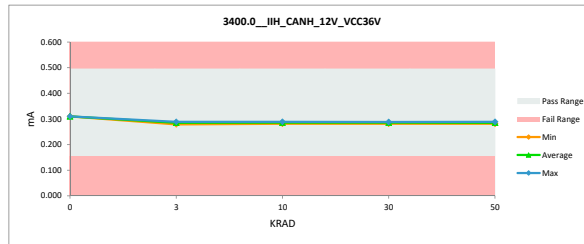
3400.0_IIH_CANH_12V_VCC36		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	0.495	
Min Limit	0.155	

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.289	0.310	-0.021
3	1	0.285	0.287	-0.002
3	2	0.287	0.285	0.002
3	3	0.285	0.289	-0.004
3	6	0.294	0.279	0.015
3	11	0.286	0.285	0.001
3	UB14	0.289	0.285	0.004
3	UB16	0.291	0.283	0.008
3	UB18	0.290	0.289	0.001
3	UB19	0.293	0.281	0.012
3	UB22	0.293	0.287	0.006
10	23	0.285	0.282	0.003
10	24	0.289	0.281	0.008
10	25	0.292	0.284	0.008
10	28	0.284	0.288	-0.004
10	30	0.290	0.288	0.002
10	UB33	0.290	0.287	0.003
10	UB35	0.290	0.285	0.005
10	UB36	0.288	0.285	0.003
10	UB39	0.284	0.289	-0.005
10	UB40	0.288	0.288	0.000
30	43	0.286	0.281	0.005
30	44	0.291	0.286	0.005
30	48	0.284	0.288	-0.004
30	50	0.292	0.287	0.005
30	52	0.288	0.285	0.003
30	UB96	0.290	0.286	0.004
30	UB98	0.286	0.288	-0.002
30	UB99	0.292	0.282	0.010
30	UB101	0.287	0.287	0.000
30	UB102	0.288	0.284	0.004
50	105	0.283	0.288	-0.005
50	108	0.292	0.282	0.010
50	107	0.287	0.285	0.002
50	111	0.287	0.284	0.003
50	113	0.287	0.283	0.004
50	114	0.287	0.283	0.004
50	115	0.290	0.285	0.005
50	119	0.290	0.283	0.007
50	118	0.292	0.287	0.005
50	121	0.285	0.285	0.000
50	124	0.287	0.285	0.002
50	125	0.285	0.288	-0.003
50	128	0.288	0.287	0.001
50	130	0.290	0.285	0.005
50	131	0.291	0.286	0.005
50	133	0.292	0.289	0.003
50	134	0.290	0.284	0.006
50	135	0.289	0.284	0.005
50	137	0.287	0.284	0.003
50	298	0.282	0.288	-0.006
50	299	0.287	0.288	-0.001
50	UB293	0.288	0.286	0.002
50	UB294	0.290	0.281	0.009
50	UB295	0.289	0.287	0.002
50	UB296	0.289	0.284	0.005
50	UB297	0.288	0.285	0.003
50	Max	0.294	0.310	0.015
50	Average	0.288	0.286	0.003
50	Min	0.282	0.279	-0.021
50	Std Dev	0.003	0.004	0.005



3400.0_IIH_CANH_12V_VCC		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	0.495	
Min Limit	0.155	

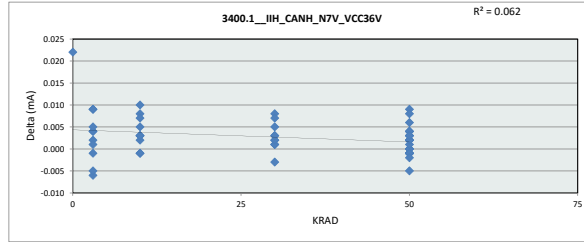
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.310	0.279	0.281	0.281	0.281
Average	0.310	0.285	0.286	0.285	0.285
Max	0.310	0.289	0.289	0.288	0.289
UL	0.495	0.495	0.495	0.495	0.495



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

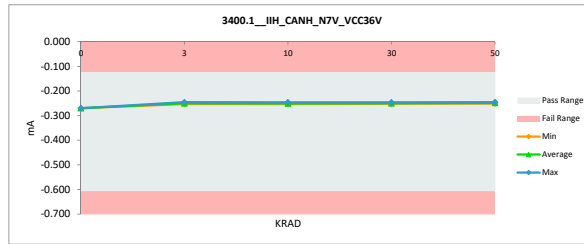
3400.1_IIH_CANH_N7V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.248	-0.270	0.022
3	1	-0.243	-0.252	0.009
3	2	-0.246	-0.250	0.004
3	3	-0.244	-0.253	0.009
3	6	-0.251	-0.245	-0.006
3	11	-0.245	-0.249	0.004
3	UB14	-0.247	-0.249	0.002
3	UB16	-0.249	-0.248	-0.001
3	UB18	-0.248	-0.253	0.005
3	UB19	-0.251	-0.246	-0.005
3	UB22	-0.250	-0.251	0.001
10	23	-0.244	-0.247	0.003
10	24	-0.247	-0.246	-0.001
10	25	-0.250	-0.249	-0.001
10	28	-0.244	-0.252	0.008
10	30	-0.248	-0.253	0.005
10	UB33	-0.248	-0.251	0.003
10	UB35	-0.248	-0.250	0.002
10	UB36	-0.247	-0.250	0.003
10	UB39	-0.243	-0.253	0.010
10	UB40	-0.246	-0.253	0.007
30	43	-0.245	-0.246	0.001
30	44	-0.249	-0.251	0.002
30	48	-0.244	-0.252	0.008
30	50	-0.250	-0.251	0.001
30	52	-0.246	-0.249	0.003
30	UB96	-0.248	-0.250	0.002
30	UB98	-0.245	-0.252	0.007
30	UB99	-0.250	-0.247	-0.003
30	UB101	-0.246	-0.251	0.005
30	UB102	-0.246	-0.249	0.003
50	105	-0.242	-0.251	0.009
50	108	-0.250	-0.245	-0.005
50	107	-0.246	-0.248	0.002
50	111	-0.246	-0.248	0.002
50	113	-0.246	-0.246	0.000
50	114	-0.246	-0.245	-0.001
50	115	-0.248	-0.248	0.000
50	119	-0.248	-0.247	-0.001
50	118	-0.250	-0.249	-0.001
50	121	-0.244	-0.248	0.004
50	124	-0.245	-0.249	0.004
50	125	-0.244	-0.250	0.006
50	128	-0.247	-0.249	0.002
50	130	-0.248	-0.248	0.000
50	131	-0.250	-0.249	-0.001
50	133	-0.250	-0.251	0.001
50	134	-0.249	-0.248	-0.001
50	135	-0.248	-0.247	-0.001
50	137	-0.245	-0.247	0.002
50	298	-0.242	-0.250	0.008
50	299	-0.246	-0.250	0.004
50	UB293	-0.246	-0.249	0.003
50	UB294	-0.248	-0.246	-0.002
50	UB295	-0.248	-0.251	0.003
50	UB296	-0.247	-0.249	0.002
50	UB297	-0.247	-0.250	0.003
50	Max	-0.242	-0.245	0.022
50	Average	-0.247	-0.250	0.003
50	Min	-0.251	-0.270	-0.006
50	Std Dev	0.002	0.004	0.004



3400.1_IIH_CANH_N7V_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

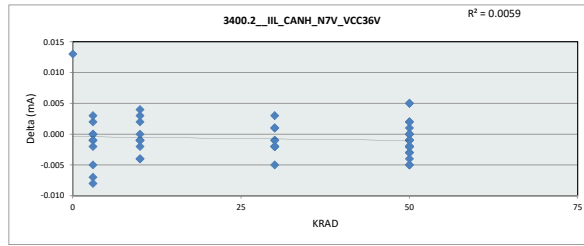
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.270	-0.253	-0.253	-0.252	-0.251
Average	-0.270	-0.250	-0.250	-0.250	-0.248
Max	-0.270	-0.245	-0.246	-0.246	-0.245
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

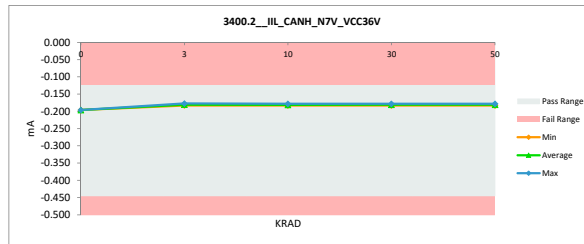
3400.2_IIL_CANH_N7V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.183	-0.196	0.013
3	1	-0.180	-0.182	0.002
3	2	-0.181	-0.181	0.000
3	3	-0.180	-0.183	0.003
3	6	-0.185	-0.177	-0.008
3	11	-0.181	-0.180	-0.001
3	UB14	-0.182	-0.181	-0.001
3	UB16	-0.184	-0.179	-0.005
3	UB18	-0.183	-0.183	0.000
3	UB19	-0.185	-0.178	-0.007
3	UB22	-0.184	-0.182	-0.002
10	23	-0.180	-0.179	-0.001
10	24	-0.182	-0.178	-0.004
10	25	-0.184	-0.180	-0.004
10	28	-0.180	-0.183	0.003
10	30	-0.183	-0.183	0.000
10	UB33	-0.183	-0.182	-0.001
10	UB35	-0.183	-0.181	-0.002
10	UB36	-0.182	-0.181	-0.001
10	UB39	-0.179	-0.183	0.004
10	UB40	-0.181	-0.183	0.002
30	43	-0.180	-0.178	-0.002
30	44	-0.184	-0.182	-0.002
30	48	-0.180	-0.183	0.003
30	50	-0.184	-0.182	-0.002
30	52	-0.182	-0.181	-0.001
30	UB96	-0.183	-0.181	-0.002
30	UB98	-0.181	-0.182	0.001
30	UB99	-0.184	-0.179	-0.005
30	UB101	-0.181	-0.182	0.001
30	UB102	-0.181	-0.180	-0.001
50	105	-0.178	-0.183	0.005
50	108	-0.184	-0.179	-0.005
50	107	-0.181	-0.181	0.000
50	111	-0.181	-0.180	-0.001
50	113	-0.182	-0.180	-0.002
50	114	-0.181	-0.179	-0.002
50	115	-0.183	-0.181	-0.002
50	119	-0.183	-0.179	-0.004
50	118	-0.184	-0.182	-0.002
50	121	-0.180	-0.181	0.001
50	124	-0.181	-0.181	0.000
50	125	-0.180	-0.182	0.002
50	128	-0.182	-0.182	0.000
50	130	-0.183	-0.181	-0.002
50	131	-0.184	-0.181	-0.003
50	133	-0.184	-0.183	-0.001
50	134	-0.183	-0.180	-0.003
50	135	-0.183	-0.180	-0.003
50	137	-0.181	-0.180	-0.001
50	298	-0.178	-0.183	0.005
50	299	-0.181	-0.183	0.002
50	UB293	-0.182	-0.181	-0.001
50	UB294	-0.183	-0.178	-0.005
50	UB295	-0.182	-0.182	0.000
50	UB296	-0.182	-0.180	-0.002
50	UB297	-0.182	-0.181	-0.001
50	Max	-0.178	-0.177	0.013
50	Average	-0.182	-0.181	-0.001
50	Min	-0.185	-0.196	-0.008
50	Std Dev	0.002	0.003	0.003



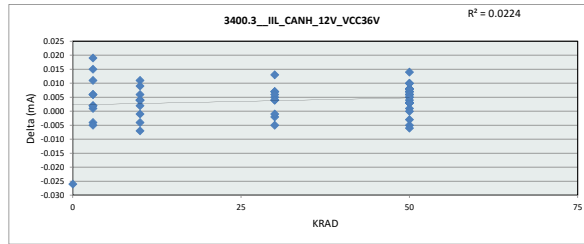
3400.2_IIL_CANH_N7V_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	-0.123	mA
Min Limit	-0.445	mA

KRAD	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.196	-0.183	-0.183	-0.183	-0.183
Average	-0.196	-0.181	-0.181	-0.181	-0.181
Max	-0.196	-0.177	-0.178	-0.178	-0.178
UL	-0.123	-0.123	-0.123	-0.123	-0.123

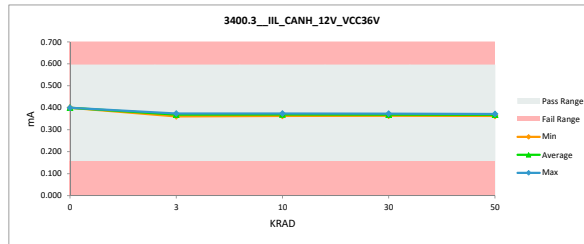


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3400.3_IIL_CANH_12V_VCC36				
Test Site	Junkins		Junkins	
Tester	ETS10		ETS10	
Test Number	EF580302		EF580302	
Unit	mA		mA	
Max Limit	0.595		0.595	
Min Limit	0.155		0.155	
KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.374	0.400	-0.026
3	1	0.368	0.372	-0.004
3	2	0.371	0.369	0.002
3	3	0.369	0.374	-0.005
3	6	0.380	0.361	0.019
3	11	0.370	0.369	0.001
3	UB14	0.374	0.368	0.006
3	UB16	0.377	0.366	0.011
3	UB18	0.375	0.373	0.002
3	UB19	0.379	0.364	0.015
3	UB22	0.378	0.372	0.006
10	23	0.369	0.365	0.004
10	24	0.374	0.363	0.011
10	25	0.377	0.368	0.009
10	28	0.368	0.372	-0.004
10	30	0.375	0.373	0.002
10	UB33	0.375	0.371	0.004
10	UB35	0.375	0.369	0.006
10	UB36	0.373	0.369	0.004
10	UB39	0.367	0.374	-0.007
10	UB40	0.372	0.373	-0.001
30	43	0.369	0.364	0.005
30	44	0.377	0.370	0.007
30	48	0.368	0.373	-0.005
30	50	0.378	0.371	0.007
30	52	0.372	0.368	0.004
30	UB96	0.375	0.369	0.006
30	UB98	0.370	0.372	-0.002
30	UB99	0.377	0.364	0.013
30	UB101	0.371	0.372	-0.001
30	UB102	0.372	0.368	0.004
50	105	0.366	0.371	-0.005
50	108	0.377	0.363	0.014
50	107	0.370	0.367	0.003
50	111	0.371	0.367	0.004
50	113	0.371	0.365	0.006
50	114	0.371	0.364	0.007
50	115	0.375	0.368	0.007
50	119	0.375	0.365	0.010
50	118	0.378	0.370	0.008
50	121	0.368	0.367	0.001
50	124	0.371	0.368	0.003
50	125	0.368	0.371	-0.003
50	128	0.372	0.369	0.003
50	130	0.375	0.368	0.007
50	131	0.377	0.369	0.008
50	133	0.378	0.372	0.006
50	134	0.375	0.367	0.008
50	135	0.374	0.366	0.008
50	137	0.371	0.366	0.005
50	298	0.365	0.371	-0.006
50	299	0.372	0.372	0.000
50	UB293	0.372	0.369	0.003
50	UB294	0.374	0.364	0.010
50	UB295	0.374	0.371	0.003
50	UB296	0.373	0.367	0.006
50	UB297	0.373	0.368	0.005
50	Max	0.380	0.400	0.019
50	Average	0.373	0.369	0.004
50	Min	0.365	0.361	-0.026
50	Std Dev	0.004	0.005	0.007

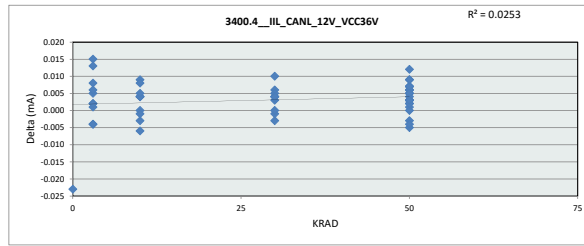


3400.3_IIL_CANH_12V_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.595		mA		
Min Limit	0.155		mA		
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.400	0.361	0.363	0.364	0.363
Average	0.400	0.369	0.370	0.369	0.368
Max	0.400	0.374	0.374	0.373	0.372
UL	0.595	0.595	0.595	0.595	0.595

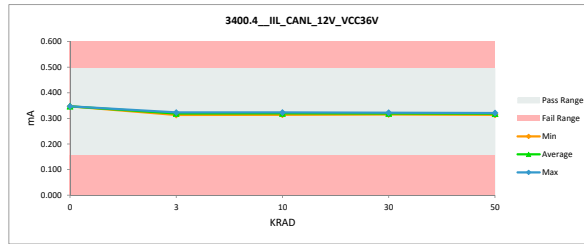


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3400.4_IIL_CANL_12V_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	mA	mA		
Max Limit	0.495	0.495		
Min Limit	0.155	0.155		
KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.324	0.347	-0.023
3	1	0.318	0.322	-0.004
3	2	0.321	0.319	0.002
3	3	0.319	0.323	-0.004
3	6	0.328	0.313	0.015
3	11	0.320	0.319	0.001
3	UB14	0.323	0.318	0.005
3	UB16	0.325	0.317	0.008
3	UB18	0.324	0.322	0.002
3	UB19	0.327	0.314	0.013
3	UB22	0.327	0.321	0.006
10	23	0.319	0.315	0.004
10	24	0.323	0.314	0.009
10	25	0.326	0.318	0.008
10	28	0.318	0.321	-0.003
10	30	0.323	0.323	0.000
10	UB33	0.324	0.320	0.004
10	UB35	0.323	0.319	0.004
10	UB36	0.323	0.318	0.005
10	UB39	0.317	0.323	-0.006
10	UB40	0.321	0.322	-0.001
30	43	0.319	0.315	0.004
30	44	0.325	0.319	0.006
30	48	0.319	0.322	-0.003
30	50	0.326	0.321	0.005
30	52	0.321	0.318	0.003
30	UB96	0.323	0.319	0.004
30	UB98	0.320	0.321	-0.001
30	UB99	0.325	0.315	0.010
30	UB101	0.321	0.321	0.000
30	UB102	0.322	0.318	0.004
50	105	0.316	0.321	-0.005
50	108	0.326	0.314	0.012
50	107	0.320	0.317	0.003
50	111	0.320	0.317	0.003
50	113	0.321	0.316	0.005
50	114	0.321	0.315	0.006
50	115	0.324	0.317	0.007
50	119	0.325	0.316	0.009
50	118	0.326	0.319	0.007
50	121	0.318	0.317	0.001
50	124	0.321	0.318	0.003
50	125	0.318	0.321	-0.003
50	128	0.322	0.319	0.003
50	130	0.324	0.318	0.006
50	131	0.325	0.319	0.006
50	133	0.326	0.321	0.005
50	134	0.324	0.317	0.007
50	135	0.323	0.316	0.007
50	137	0.320	0.316	0.004
50	298	0.316	0.320	-0.004
50	299	0.321	0.321	0.000
50	UB293	0.321	0.319	0.002
50	UB294	0.324	0.315	0.009
50	UB295	0.323	0.321	0.002
50	UB296	0.322	0.317	0.005
50	UB297	0.322	0.319	0.003
50	Max	0.328	0.347	0.015
50	Average	0.322	0.319	0.003
50	Min	0.316	0.313	-0.023
50	Std Dev	0.003	0.005	0.006



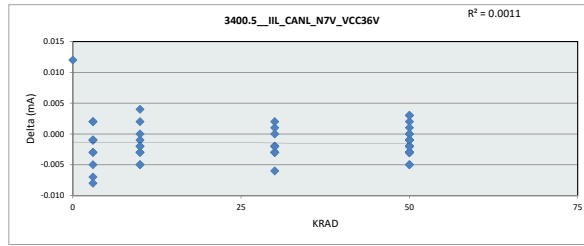
3400.4_IIL_CANL_12V_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.495	mA			
Min Limit	0.155	mA			
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.347	0.313	0.314	0.315	0.314
Average	0.347	0.319	0.319	0.319	0.318
Max	0.347	0.323	0.323	0.322	0.321
UL	0.495	0.495	0.495	0.495	0.495



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

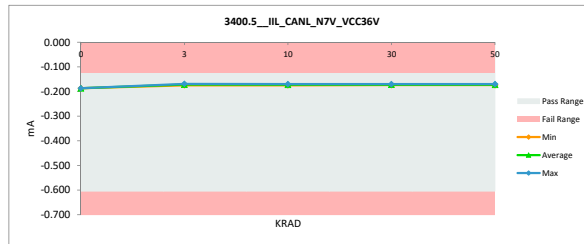
3400.5_IIL_CANL_N7V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.175	-0.187	0.012
3	1	-0.172	-0.174	0.002
3	2	-0.173	-0.172	-0.001
3	3	-0.173	-0.175	0.002
3	6	-0.177	-0.169	-0.008
3	11	-0.173	-0.172	-0.001
3	UB14	-0.175	-0.172	-0.003
3	UB16	-0.176	-0.171	-0.005
3	UB18	-0.175	-0.174	-0.001
3	UB19	-0.177	-0.170	-0.007
3	UB22	-0.176	-0.173	-0.003
10	23	-0.173	-0.170	-0.003
10	24	-0.175	-0.170	-0.005
10	25	-0.176	-0.171	-0.005
10	28	-0.172	-0.174	0.002
10	30	-0.175	-0.174	-0.001
10	UB33	-0.175	-0.173	-0.002
10	UB35	-0.175	-0.172	-0.003
10	UB36	-0.174	-0.172	-0.002
10	UB39	-0.171	-0.175	0.004
10	UB40	-0.174	-0.174	0.000
30	43	-0.172	-0.170	-0.002
30	44	-0.176	-0.173	-0.003
30	48	-0.172	-0.174	0.002
30	50	-0.176	-0.173	-0.003
30	52	-0.174	-0.172	-0.002
30	UB96	-0.175	-0.172	-0.003
30	UB98	-0.173	-0.174	0.001
30	UB99	-0.176	-0.170	-0.006
30	UB101	-0.173	-0.173	0.000
30	UB102	-0.174	-0.172	-0.002
50	105	-0.171	-0.174	0.003
50	108	-0.176	-0.171	-0.005
50	107	-0.173	-0.172	-0.001
50	111	-0.173	-0.172	-0.001
50	113	-0.173	-0.171	-0.002
50	114	-0.173	-0.171	-0.002
50	115	-0.175	-0.172	-0.003
50	119	-0.175	-0.172	-0.003
50	118	-0.176	-0.173	-0.003
50	121	-0.172	-0.172	0.000
50	124	-0.173	-0.173	0.000
50	125	-0.172	-0.174	0.002
50	128	-0.174	-0.173	-0.001
50	130	-0.175	-0.173	-0.002
50	131	-0.176	-0.173	-0.003
50	133	-0.176	-0.174	-0.002
50	134	-0.175	-0.172	-0.003
50	135	-0.175	-0.172	-0.003
50	137	-0.173	-0.172	-0.001
50	298	-0.171	-0.174	0.003
50	299	-0.173	-0.174	0.001
50	UB293	-0.174	-0.173	-0.001
50	UB294	-0.175	-0.170	-0.005
50	UB295	-0.174	-0.173	-0.001
50	UB296	-0.174	-0.171	-0.003
50	UB297	-0.174	-0.172	-0.002
50	Max	-0.171	-0.169	0.012
50	Average	-0.174	-0.173	-0.001
50	Min	-0.177	-0.187	-0.008
50	Std Dev	0.002	0.002	0.003



3400.5_IIL_CANL_N7V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	-0.123	mA
Min Limit	-0.605	mA

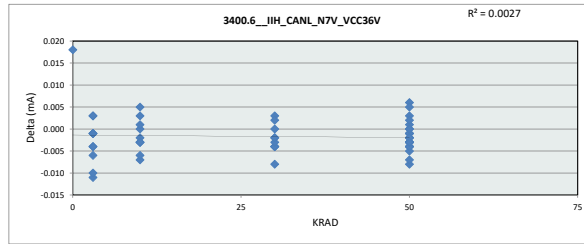
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.187	-0.175	-0.175	-0.174	-0.174
Average	-0.187	-0.172	-0.173	-0.172	-0.172
Max	-0.187	-0.169	-0.170	-0.170	-0.170
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

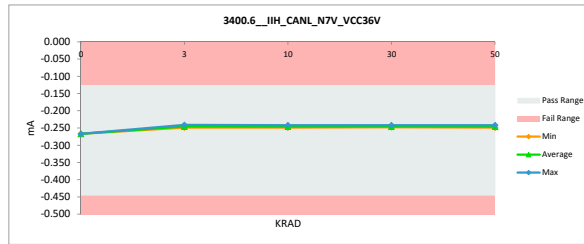
3400.6_IIH_CANL_N7V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.249	-0.267	0.018
3	1	-0.245	-0.248	0.003
3	2	-0.247	-0.246	-0.001
3	3	-0.246	-0.249	0.003
3	6	-0.252	-0.241	-0.011
3	11	-0.246	-0.245	-0.001
3	UB14	-0.249	-0.245	-0.004
3	UB16	-0.250	-0.244	-0.006
3	UB18	-0.249	-0.248	-0.001
3	UB19	-0.252	-0.242	-0.010
3	UB22	-0.251	-0.247	-0.004
10	23	-0.246	-0.243	-0.003
10	24	-0.249	-0.242	-0.007
10	25	-0.251	-0.245	-0.006
10	28	-0.245	-0.248	0.003
10	30	-0.249	-0.249	0.000
10	UB33	-0.249	-0.247	-0.002
10	UB35	-0.249	-0.246	-0.003
10	UB36	-0.248	-0.245	-0.003
10	UB39	-0.244	-0.249	0.005
10	UB40	-0.247	-0.248	0.001
30	43	-0.246	-0.242	-0.004
30	44	-0.250	-0.246	-0.004
30	48	-0.245	-0.248	0.003
30	50	-0.251	-0.247	-0.004
30	52	-0.247	-0.245	-0.002
30	UB96	-0.249	-0.246	-0.003
30	UB98	-0.246	-0.248	0.002
30	UB99	-0.251	-0.243	-0.008
30	UB101	-0.247	-0.247	0.000
30	UB102	-0.247	-0.245	-0.002
50	105	-0.243	-0.249	0.006
50	108	-0.251	-0.243	-0.008
50	107	-0.246	-0.246	0.000
50	111	-0.246	-0.245	-0.001
50	113	-0.247	-0.244	-0.003
50	114	-0.247	-0.244	-0.003
50	115	-0.249	-0.246	-0.003
50	119	-0.250	-0.245	-0.005
50	118	-0.251	-0.247	-0.004
50	121	-0.245	-0.246	0.001
50	124	-0.247	-0.246	-0.001
50	125	-0.245	-0.248	0.003
50	128	-0.248	-0.247	-0.001
50	130	-0.249	-0.246	-0.003
50	131	-0.251	-0.247	-0.004
50	133	-0.251	-0.249	-0.002
50	134	-0.249	-0.246	-0.003
50	135	-0.249	-0.245	-0.004
50	137	-0.247	-0.245	-0.002
50	298	-0.243	-0.248	0.005
50	299	-0.247	-0.249	0.002
50	UB293	-0.247	-0.247	0.000
50	UB294	-0.249	-0.242	-0.007
50	UB295	-0.249	-0.247	-0.002
50	UB296	-0.248	-0.244	-0.004
50	UB297	-0.248	-0.245	-0.003
50	Max	-0.243	-0.241	0.018
50	Average	-0.248	-0.246	-0.002
50	Min	-0.252	-0.267	-0.011
50	Std Dev	0.002	0.003	0.004



3400.6_IIH_CANL_N7V_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

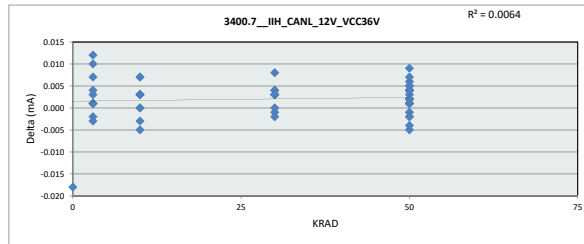
KRAD	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.267	-0.249	-0.249	-0.248	-0.249
Average	-0.267	-0.246	-0.246	-0.246	-0.246
Max	-0.267	-0.241	-0.242	-0.242	-0.242
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

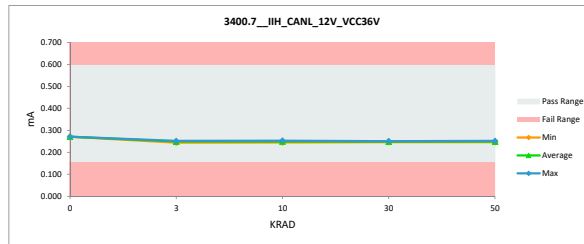
3400.7_IIH_CANL_12V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	0.595	0.595
Min Limit	0.155	0.155

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.253	0.271	-0.018
3	1	0.249	0.251	-0.002
3	2	0.250	0.249	0.001
3	3	0.249	0.252	-0.003
3	6	0.256	0.244	0.012
3	11	0.250	0.249	0.001
3	UB14	0.252	0.249	0.003
3	UB16	0.254	0.247	0.007
3	UB18	0.253	0.252	0.001
3	UB19	0.255	0.245	0.010
3	UB22	0.255	0.251	0.004
10	23	0.249	0.246	0.003
10	24	0.252	0.245	0.007
10	25	0.255	0.248	0.007
10	28	0.248	0.251	-0.003
10	30	0.252	0.252	0.000
10	UB33	0.253	0.250	0.003
10	UB35	0.252	0.249	0.003
10	UB36	0.252	0.249	0.003
10	UB39	0.245	0.253	-0.005
10	UB40	0.251	0.251	0.000
30	43	0.249	0.246	0.003
30	44	0.254	0.250	0.004
30	48	0.249	0.251	-0.002
30	50	0.255	0.251	0.004
30	52	0.251	0.248	0.003
30	UB96	0.252	0.249	0.003
30	UB98	0.250	0.251	-0.001
30	UB99	0.254	0.246	0.008
30	UB101	0.251	0.251	0.000
30	UB102	0.251	0.248	0.003
50	105	0.247	0.252	-0.005
50	108	0.255	0.246	0.009
50	107	0.250	0.249	0.001
50	111	0.250	0.248	0.002
50	113	0.251	0.247	0.004
50	114	0.250	0.247	0.003
50	115	0.253	0.249	0.004
50	119	0.253	0.247	0.006
50	118	0.255	0.250	0.005
50	121	0.248	0.249	-0.001
50	124	0.251	0.249	0.002
50	125	0.249	0.251	-0.002
50	128	0.251	0.250	0.001
50	130	0.253	0.249	0.004
50	131	0.254	0.250	0.004
50	133	0.254	0.252	0.002
50	134	0.253	0.248	0.005
50	135	0.252	0.248	0.004
50	137	0.250	0.248	0.002
50	298	0.247	0.251	-0.004
50	299	0.250	0.252	-0.002
50	UB293	0.251	0.250	0.001
50	UB294	0.253	0.246	0.007
50	UB295	0.252	0.251	0.001
50	UB296	0.252	0.248	0.004
50	UB297	0.251	0.249	0.002
50	Max	0.256	0.271	0.012
50	Average	0.252	0.249	0.002
50	Min	0.247	0.244	-0.018
50	Std Dev	0.002	0.004	0.004



3400.7_IIH_CANL_12V_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	0.595	mA
Min Limit	0.155	mA

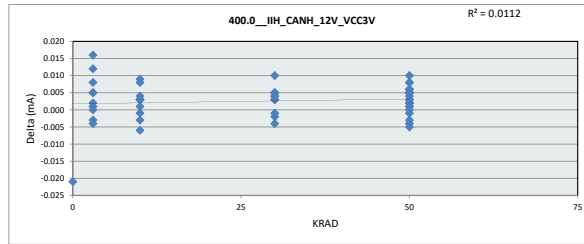
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.271	0.244	0.245	0.246	0.246
Average	0.271	0.249	0.249	0.249	0.249
Max	0.271	0.252	0.253	0.251	0.252
UL	0.595	0.595	0.595	0.595	0.595



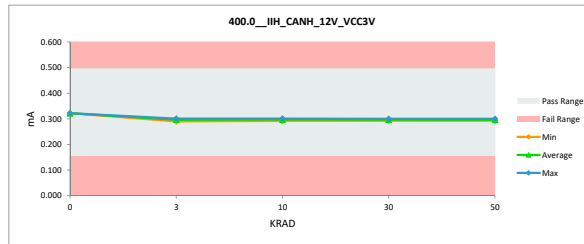
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

400.0_IIH_CANH_12V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	0.495	
Min Limit	0.155	

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	0.301	0.322	-0.021
3	1	0.296	0.299	-0.003
3	2	0.298	0.297	0.001
3	3	0.297	0.301	-0.004
3	6	0.306	0.290	0.016
3	11	0.297	0.297	0.000
3	UB14	0.301	0.296	0.005
3	UB16	0.303	0.295	0.008
3	UB18	0.302	0.300	0.002
3	UB19	0.305	0.293	0.012
3	UB22	0.304	0.299	0.005
10	23	0.297	0.294	0.003
10	24	0.301	0.292	0.009
10	25	0.304	0.296	0.008
10	28	0.296	0.299	-0.003
10	30	0.301	0.300	0.001
10	UB33	0.301	0.298	0.003
10	UB35	0.301	0.297	0.004
10	UB36	0.300	0.297	0.003
10	UB39	0.295	0.301	-0.006
10	UB40	0.299	0.300	-0.001
30	43	0.297	0.293	0.004
30	44	0.303	0.298	0.005
30	48	0.296	0.300	-0.004
30	50	0.304	0.299	0.005
30	52	0.299	0.296	0.003
30	UB96	0.301	0.297	0.004
30	UB98	0.297	0.299	-0.002
30	UB99	0.303	0.293	0.010
30	UB101	0.298	0.299	-0.001
30	UB102	0.299	0.296	0.003
50	105	0.295	0.299	-0.004
50	108	0.303	0.293	0.010
50	107	0.298	0.296	0.002
50	111	0.298	0.296	0.002
50	113	0.299	0.294	0.005
50	114	0.299	0.294	0.005
50	115	0.302	0.296	0.006
50	119	0.302	0.294	0.008
50	118	0.304	0.298	0.006
50	121	0.296	0.296	0.000
50	124	0.299	0.297	0.002
50	125	0.296	0.299	-0.003
50	128	0.299	0.298	0.001
50	130	0.302	0.297	0.005
50	131	0.303	0.298	0.005
50	133	0.304	0.300	0.004
50	134	0.302	0.296	0.006
50	135	0.301	0.296	0.005
50	137	0.298	0.296	0.002
50	298	0.294	0.299	-0.005
50	299	0.299	0.300	-0.001
50	UB293	0.299	0.298	0.001
50	UB294	0.301	0.293	0.008
50	UB295	0.301	0.298	0.003
50	UB296	0.300	0.295	0.005
50	UB297	0.300	0.297	0.003
50	Max	0.306	0.322	0.016
50	Average	0.300	0.297	0.003
50	Min	0.294	0.290	-0.021
50	Std Dev	0.003	0.004	0.005



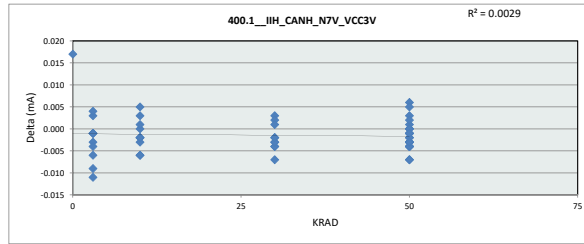
400.0_IIH_CANH_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.495 mA				
Min Limit	0.155 mA				
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.322	0.290	0.292	0.293	0.293
Average	0.322	0.297	0.297	0.297	0.297
Max	0.322	0.301	0.301	0.300	0.300
UL	0.495	0.495	0.495	0.495	0.495



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

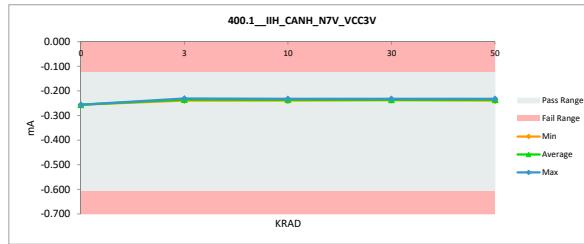
400.1_IIH_CANH_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.239	-0.256	0.017
3	1	-0.234	-0.237	0.003
3	2	-0.237	-0.236	-0.001
3	3	-0.235	-0.239	0.004
3	6	-0.242	-0.231	-0.011
3	11	-0.236	-0.235	-0.001
3	UB14	-0.238	-0.235	-0.003
3	UB16	-0.240	-0.234	-0.006
3	UB18	-0.239	-0.238	-0.001
3	UB19	-0.241	-0.232	-0.009
3	UB22	-0.241	-0.237	-0.004
10	23	-0.235	-0.233	-0.002
10	24	-0.238	-0.232	-0.006
10	25	-0.240	-0.234	-0.006
10	28	-0.235	-0.238	0.003
10	30	-0.239	-0.239	0.000
10	UB33	-0.239	-0.237	-0.002
10	UB35	-0.239	-0.236	-0.003
10	UB36	-0.238	-0.236	-0.002
10	UB39	-0.234	-0.239	0.005
10	UB40	-0.237	-0.238	0.001
30	43	-0.236	-0.232	-0.004
30	44	-0.240	-0.236	-0.004
30	48	-0.235	-0.238	0.003
30	50	-0.241	-0.238	-0.003
30	52	-0.237	-0.235	-0.002
30	UB96	-0.239	-0.236	-0.003
30	UB98	-0.236	-0.238	0.002
30	UB99	-0.240	-0.233	-0.007
30	UB101	-0.237	-0.238	0.001
30	UB102	-0.237	-0.235	-0.002
50	105	-0.233	-0.239	0.006
50	108	-0.240	-0.233	-0.007
50	107	-0.236	-0.236	0.000
50	111	-0.237	-0.236	-0.001
50	113	-0.237	-0.235	-0.002
50	114	-0.237	-0.234	-0.003
50	115	-0.239	-0.236	-0.003
50	119	-0.239	-0.235	-0.004
50	118	-0.241	-0.237	-0.004
50	121	-0.235	-0.236	0.001
50	124	-0.236	-0.236	0.000
50	125	-0.235	-0.238	0.003
50	128	-0.238	-0.237	-0.001
50	130	-0.239	-0.236	-0.003
50	131	-0.241	-0.237	-0.004
50	133	-0.241	-0.239	-0.002
50	134	-0.239	-0.236	-0.003
50	135	-0.239	-0.235	-0.004
50	137	-0.236	-0.235	-0.001
50	298	-0.233	-0.238	0.005
50	299	-0.237	-0.239	0.002
50	UB293	-0.237	-0.237	0.000
50	UB294	-0.239	-0.232	-0.007
50	UB295	-0.238	-0.237	-0.001
50	UB296	-0.238	-0.234	-0.004
50	UB297	-0.238	-0.235	-0.003
50	Max	-0.233	-0.231	0.017
50	Average	-0.238	-0.236	-0.001
50	Min	-0.242	-0.256	-0.011
50	Std Dev	0.002	0.003	0.004



400.1_IIH_CANH_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	-0.123	mA
Min Limit	-0.605	mA

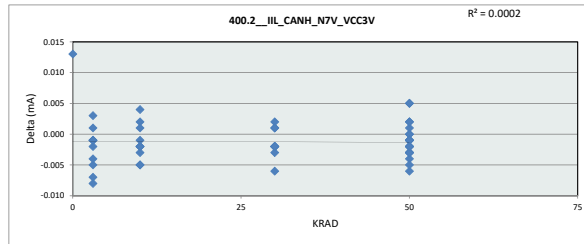
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.256	-0.239	-0.239	-0.238	-0.239
Average	-0.256	-0.235	-0.236	-0.236	-0.236
Max	-0.256	-0.231	-0.232	-0.232	-0.232
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

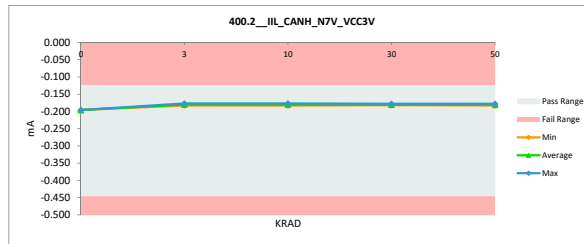
400.2_IIL_CANH_N7V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.183	-0.196	0.013
3	1	-0.180	-0.181	0.001
3	2	-0.181	-0.180	-0.001
3	3	-0.180	-0.183	0.003
3	6	-0.185	-0.177	-0.008
3	11	-0.181	-0.180	-0.001
3	UB14	-0.182	-0.180	-0.002
3	UB16	-0.184	-0.179	-0.005
3	UB18	-0.183	-0.182	-0.001
3	UB19	-0.185	-0.178	-0.007
3	UB22	-0.185	-0.181	-0.004
10	23	-0.180	-0.178	-0.002
10	24	-0.182	-0.177	-0.005
10	25	-0.184	-0.179	-0.005
10	28	-0.180	-0.182	0.002
10	30	-0.183	-0.182	-0.001
10	UB33	-0.183	-0.181	-0.002
10	UB35	-0.183	-0.180	-0.003
10	UB36	-0.182	-0.180	-0.002
10	UB39	-0.179	-0.183	0.004
10	UB40	-0.181	-0.182	0.001
30	43	-0.180	-0.178	-0.002
30	44	-0.184	-0.181	-0.003
30	48	-0.180	-0.182	0.002
30	50	-0.184	-0.182	-0.002
30	52	-0.182	-0.180	-0.002
30	UB96	-0.183	-0.181	-0.002
30	UB98	-0.181	-0.182	0.001
30	UB99	-0.184	-0.178	-0.006
30	UB101	-0.181	-0.182	0.001
30	UB102	-0.182	-0.180	-0.002
50	105	-0.178	-0.183	0.005
50	108	-0.184	-0.178	-0.006
50	107	-0.181	-0.181	0.000
50	111	-0.181	-0.180	-0.001
50	113	-0.182	-0.180	-0.002
50	114	-0.181	-0.179	-0.002
50	115	-0.183	-0.180	-0.003
50	119	-0.183	-0.179	-0.004
50	118	-0.184	-0.182	-0.002
50	121	-0.180	-0.181	0.001
50	124	-0.181	-0.181	0.000
50	125	-0.180	-0.182	0.002
50	128	-0.182	-0.181	-0.001
50	130	-0.183	-0.181	-0.002
50	131	-0.184	-0.181	-0.003
50	133	-0.184	-0.183	-0.001
50	134	-0.183	-0.180	-0.003
50	135	-0.183	-0.180	-0.003
50	137	-0.181	-0.180	-0.001
50	298	-0.178	-0.183	0.005
50	299	-0.181	-0.183	0.002
50	UB293	-0.182	-0.181	-0.001
50	UB294	-0.183	-0.178	-0.005
50	UB295	-0.183	-0.182	-0.001
50	UB296	-0.182	-0.179	-0.003
50	UB297	-0.182	-0.180	-0.002
50	Max	-0.178	-0.177	0.013
50	Average	-0.182	-0.181	-0.001
50	Min	-0.185	-0.196	-0.008
50	Std Dev	0.002	0.003	0.003



400.2_IIL_CANH_N7V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

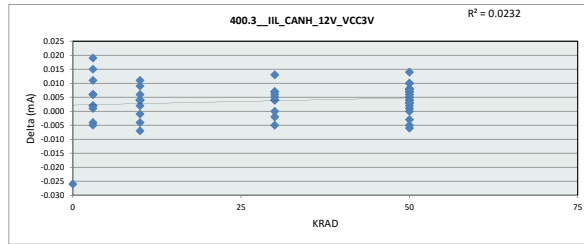
KRAD	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.196	-0.183	-0.183	-0.182	-0.183
Average	-0.196	-0.180	-0.180	-0.181	-0.181
Max	-0.196	-0.177	-0.177	-0.178	-0.178
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

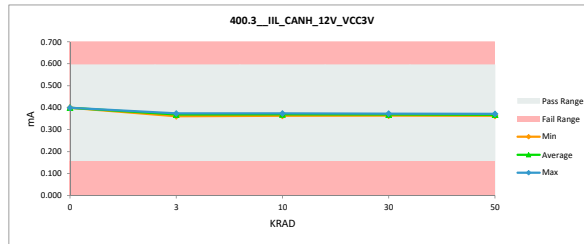
400.3_IIL_CANH_12V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	0.595	
Min Limit	0.155	

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	0.374	0.400	-0.026
3	1	0.368	0.372	-0.004
3	2	0.371	0.369	0.002
3	3	0.369	0.374	-0.005
3	6	0.380	0.361	0.019
3	11	0.370	0.369	0.001
3	UB14	0.374	0.368	0.006
3	UB16	0.377	0.366	0.011
3	UB18	0.375	0.373	0.002
3	UB19	0.379	0.364	0.015
3	UB22	0.378	0.372	0.006
10	23	0.369	0.365	0.004
10	24	0.374	0.363	0.011
10	25	0.377	0.368	0.009
10	28	0.368	0.372	-0.004
10	30	0.375	0.373	0.002
10	UB33	0.375	0.371	0.004
10	UB35	0.375	0.369	0.006
10	UB36	0.373	0.369	0.004
10	UB39	0.367	0.374	-0.007
10	UB40	0.372	0.373	-0.001
30	43	0.369	0.364	0.005
30	44	0.377	0.370	0.007
30	48	0.368	0.373	-0.005
30	50	0.378	0.371	0.007
30	52	0.372	0.368	0.004
30	UB96	0.375	0.369	0.006
30	UB98	0.370	0.372	-0.002
30	UB99	0.377	0.364	0.013
30	UB101	0.371	0.371	0.000
30	UB102	0.372	0.368	0.004
50	105	0.366	0.371	-0.005
50	108	0.377	0.363	0.014
50	107	0.371	0.367	0.004
50	111	0.371	0.367	0.004
50	113	0.372	0.365	0.007
50	114	0.371	0.364	0.007
50	115	0.375	0.368	0.007
50	119	0.375	0.365	0.010
50	118	0.378	0.370	0.008
50	121	0.368	0.367	0.001
50	124	0.371	0.368	0.003
50	125	0.368	0.371	-0.003
50	128	0.372	0.369	0.003
50	130	0.375	0.368	0.007
50	131	0.377	0.369	0.008
50	133	0.378	0.372	0.006
50	134	0.375	0.367	0.008
50	135	0.374	0.366	0.008
50	137	0.371	0.366	0.005
50	298	0.365	0.371	-0.006
50	299	0.372	0.372	0.000
50	UB293	0.372	0.370	0.002
50	UB294	0.374	0.364	0.010
50	UB295	0.374	0.371	0.003
50	UB296	0.373	0.367	0.006
50	UB297	0.373	0.368	0.005
50	Max	0.380	0.400	0.019
50	Average	0.373	0.369	0.004
50	Min	0.365	0.361	-0.026
50	Std Dev	0.004	0.005	0.007



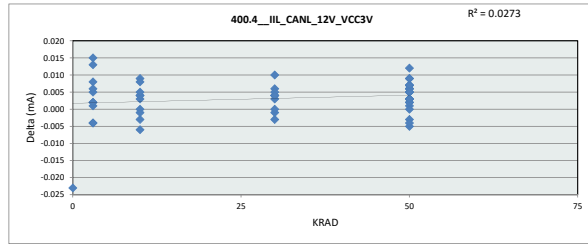
400.3_IIL_CANH_12V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	0.595	
Min Limit	0.155	

KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.400	0.361	0.363	0.364	0.363
Average	0.400	0.369	0.370	0.369	0.368
Max	0.400	0.374	0.374	0.373	0.372
UL	0.595	0.595	0.595	0.595	0.595

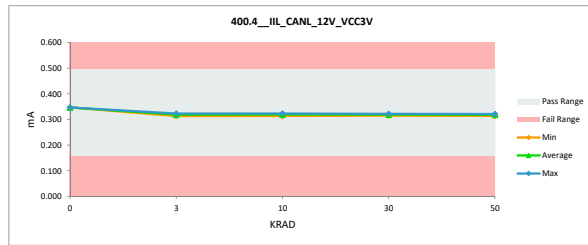


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

400.4_IIL_CANL_12V_VCC3V				
Test Site	Junkins		Junkins	
Tester	ETS10		ETS10	
Test Number	EF580302		EF580302	
Unit	mA		mA	
Max Limit	0.495		0.495	
Min Limit	0.155		0.155	
KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	0.324	0.347	-0.023
3	1	0.318	0.322	-0.004
3	2	0.321	0.319	0.002
3	3	0.319	0.323	-0.004
3	6	0.328	0.313	0.015
3	11	0.320	0.319	0.001
3	UB14	0.323	0.318	0.005
3	UB16	0.325	0.317	0.008
3	UB18	0.324	0.322	0.002
3	UB19	0.327	0.314	0.013
3	UB22	0.327	0.321	0.006
10	23	0.319	0.315	0.004
10	24	0.323	0.314	0.009
10	25	0.326	0.318	0.008
10	28	0.318	0.321	-0.003
10	30	0.323	0.323	0.000
10	UB33	0.324	0.321	0.003
10	UB35	0.323	0.319	0.004
10	UB36	0.323	0.318	0.005
10	UB39	0.317	0.323	-0.006
10	UB40	0.321	0.322	-0.001
30	43	0.319	0.315	0.004
30	44	0.325	0.319	0.006
30	48	0.319	0.322	-0.003
30	50	0.326	0.321	0.005
30	52	0.321	0.318	0.003
30	UB96	0.323	0.319	0.004
30	UB98	0.320	0.321	-0.001
30	UB99	0.325	0.315	0.010
30	UB101	0.321	0.321	0.000
30	UB102	0.322	0.318	0.004
50	105	0.316	0.321	-0.005
50	108	0.326	0.314	0.012
50	107	0.320	0.317	0.003
50	111	0.320	0.317	0.003
50	113	0.321	0.316	0.005
50	114	0.321	0.315	0.006
50	115	0.324	0.317	0.007
50	119	0.325	0.316	0.009
50	118	0.326	0.319	0.007
50	121	0.318	0.317	0.001
50	124	0.321	0.318	0.003
50	125	0.318	0.321	-0.003
50	128	0.322	0.319	0.003
50	130	0.324	0.318	0.006
50	131	0.325	0.319	0.006
50	133	0.326	0.321	0.005
50	134	0.324	0.317	0.007
50	135	0.323	0.316	0.007
50	137	0.321	0.316	0.005
50	298	0.316	0.320	-0.004
50	299	0.321	0.321	0.000
50	UB293	0.321	0.319	0.002
50	UB294	0.324	0.315	0.009
50	UB295	0.323	0.321	0.002
50	UB296	0.322	0.317	0.005
50	UB297	0.322	0.319	0.003
50	Max	0.328	0.347	0.015
50	Average	0.322	0.319	0.003
50	Min	0.316	0.313	-0.023
50	Std Dev	0.003	0.005	0.006



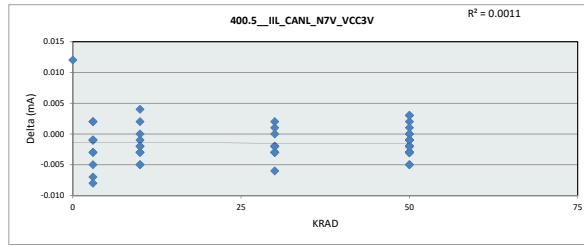
400.4_IIL_CANL_12V_VCC3V					
Test Site	Junkins		Junkins		
Tester	ETS10		ETS10		
Test Number	EF580302		EF580302		
Unit	mA		mA		
Max Limit	0.495		0.495		
Min Limit	0.155		0.155		
KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.347	0.313	0.314	0.315	0.314
Average	0.347	0.319	0.319	0.319	0.318
Max	0.347	0.323	0.323	0.322	0.321
UL	0.495	0.495	0.495	0.495	0.495



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

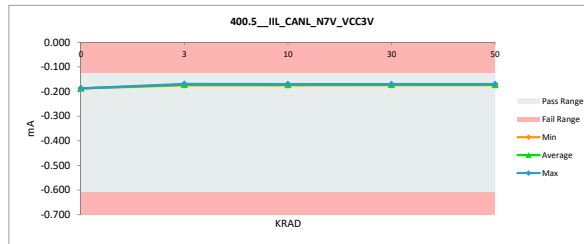
400.5_IIL_CANL_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.175	-0.187	0.012
3	1	-0.172	-0.174	0.002
3	2	-0.173	-0.172	-0.001
3	3	-0.173	-0.175	0.002
3	6	-0.177	-0.169	-0.008
3	11	-0.173	-0.172	-0.001
3	UB14	-0.175	-0.172	-0.003
3	UB16	-0.176	-0.171	-0.005
3	UB18	-0.175	-0.174	-0.001
3	UB19	-0.177	-0.170	-0.007
3	UB22	-0.176	-0.173	-0.003
10	23	-0.173	-0.170	-0.003
10	24	-0.175	-0.170	-0.005
10	25	-0.176	-0.171	-0.005
10	28	-0.172	-0.174	0.002
10	30	-0.175	-0.174	-0.001
10	UB33	-0.175	-0.173	-0.002
10	UB35	-0.175	-0.172	-0.003
10	UB36	-0.174	-0.172	-0.002
10	UB39	-0.171	-0.175	0.004
10	UB40	-0.174	-0.174	0.000
30	43	-0.172	-0.170	-0.002
30	44	-0.176	-0.173	-0.003
30	48	-0.172	-0.174	0.002
30	50	-0.176	-0.173	-0.003
30	52	-0.174	-0.172	-0.002
30	UB96	-0.175	-0.172	-0.003
30	UB98	-0.173	-0.174	0.001
30	UB99	-0.176	-0.170	-0.006
30	UB101	-0.173	-0.173	0.000
30	UB102	-0.174	-0.172	-0.002
50	105	-0.171	-0.174	0.003
50	108	-0.176	-0.171	-0.005
50	107	-0.173	-0.172	-0.001
50	111	-0.173	-0.172	-0.001
50	113	-0.173	-0.171	-0.002
50	114	-0.173	-0.171	-0.002
50	115	-0.175	-0.172	-0.003
50	119	-0.175	-0.172	-0.003
50	118	-0.176	-0.173	-0.003
50	121	-0.172	-0.172	0.000
50	124	-0.173	-0.173	0.000
50	125	-0.172	-0.174	0.002
50	128	-0.174	-0.173	-0.001
50	130	-0.175	-0.173	-0.002
50	131	-0.176	-0.173	-0.003
50	133	-0.176	-0.174	-0.002
50	134	-0.175	-0.172	-0.003
50	135	-0.175	-0.172	-0.003
50	137	-0.173	-0.172	-0.001
50	298	-0.171	-0.174	0.003
50	299	-0.173	-0.174	0.001
50	UB293	-0.174	-0.173	-0.001
50	UB294	-0.175	-0.170	-0.005
50	UB295	-0.174	-0.173	-0.001
50	UB296	-0.174	-0.171	-0.003
50	UB297	-0.174	-0.172	-0.002
50	Max	-0.171	-0.169	0.012
50	Average	-0.174	-0.173	-0.001
50	Min	-0.177	-0.187	-0.008
50	Std Dev	0.002	0.002	0.003



400.5_IIL_CANL_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

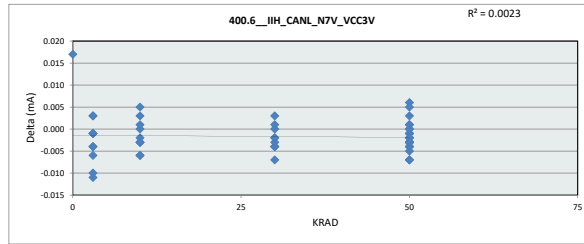
KRAD	0	3	10	30	50
LL	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.187	-0.175	-0.175	-0.174	-0.174
Average	-0.187	-0.172	-0.173	-0.172	-0.172
Max	-0.187	-0.169	-0.170	-0.170	-0.170
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

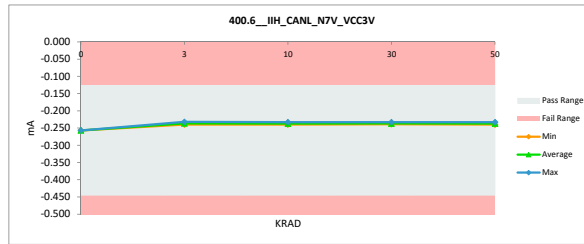
400.6_IIH_CANL_N7V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-0.240	-0.257	0.017
3	1	-0.236	-0.239	0.003
3	2	-0.238	-0.237	-0.001
3	3	-0.237	-0.240	0.003
3	6	-0.243	-0.232	-0.011
3	11	-0.237	-0.236	-0.001
3	UB14	-0.240	-0.236	-0.004
3	UB16	-0.241	-0.235	-0.006
3	UB18	-0.240	-0.239	-0.001
3	UB19	-0.243	-0.233	-0.010
3	UB22	-0.242	-0.238	-0.004
10	23	-0.237	-0.234	-0.003
10	24	-0.239	-0.233	-0.006
10	25	-0.242	-0.236	-0.006
10	28	-0.236	-0.239	0.003
10	30	-0.240	-0.240	0.000
10	UB33	-0.240	-0.238	-0.002
10	UB35	-0.240	-0.237	-0.003
10	UB36	-0.239	-0.236	-0.003
10	UB39	-0.235	-0.240	0.005
10	UB40	-0.238	-0.239	0.001
30	43	-0.237	-0.233	-0.004
30	44	-0.241	-0.237	-0.004
30	48	-0.236	-0.239	0.003
30	50	-0.242	-0.238	-0.004
30	52	-0.238	-0.236	-0.002
30	UB96	-0.240	-0.237	-0.003
30	UB98	-0.237	-0.238	0.001
30	UB99	-0.241	-0.234	-0.007
30	UB101	-0.238	-0.238	0.000
30	UB102	-0.238	-0.236	-0.002
50	105	-0.234	-0.240	0.006
50	108	-0.242	-0.235	-0.007
50	107	-0.237	-0.237	0.000
50	111	-0.237	-0.236	-0.001
50	113	-0.238	-0.235	-0.003
50	114	-0.238	-0.235	-0.003
50	115	-0.240	-0.237	-0.003
50	119	-0.241	-0.236	-0.005
50	118	-0.242	-0.238	-0.004
50	121	-0.236	-0.237	0.001
50	124	-0.238	-0.237	-0.001
50	125	-0.236	-0.239	0.003
50	128	-0.239	-0.238	-0.001
50	130	-0.240	-0.237	-0.003
50	131	-0.241	-0.238	-0.003
50	133	-0.242	-0.240	-0.002
50	134	-0.240	-0.237	-0.003
50	135	-0.240	-0.236	-0.004
50	137	-0.238	-0.236	-0.002
50	298	-0.234	-0.239	0.005
50	299	-0.238	-0.239	0.001
50	UB293	-0.238	-0.238	0.000
50	UB294	-0.240	-0.233	-0.007
50	UB295	-0.240	-0.238	-0.002
50	UB296	-0.239	-0.235	-0.004
50	UB297	-0.239	-0.236	-0.003
50	Max	-0.234	-0.232	0.017
50	Average	-0.239	-0.237	-0.002
50	Min	-0.243	-0.257	-0.011
50	Std Dev	0.002	0.003	0.004



400.6_IIH_CANL_N7V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

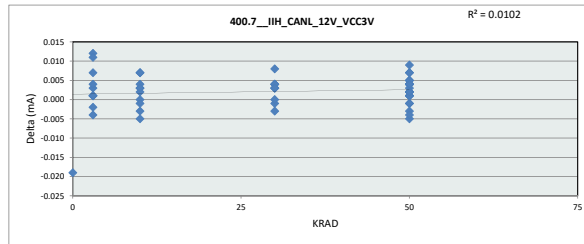
KRAD	0	3	10	30	50
LL	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.257	-0.240	-0.240	-0.239	-0.240
Average	-0.257	-0.237	-0.237	-0.237	-0.237
Max	-0.257	-0.232	-0.233	-0.233	-0.233
UL	-0.123	-0.123	-0.123	-0.123	-0.123



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

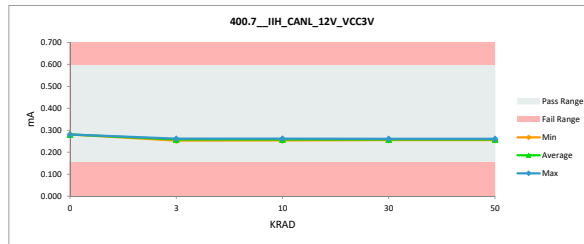
400.7_IIH_CANL_12V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	0.595	
Min Limit	0.155	

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	0.262	0.281	-0.019
3	1	0.258	0.260	-0.002
3	2	0.259	0.258	0.001
3	3	0.258	0.262	-0.004
3	6	0.265	0.253	0.012
3	11	0.259	0.258	0.001
3	UB14	0.261	0.258	0.003
3	UB16	0.263	0.256	0.007
3	UB18	0.262	0.261	0.001
3	UB19	0.255	0.254	0.011
3	UB22	0.264	0.260	0.004
10	23	0.258	0.255	0.003
10	24	0.261	0.254	0.007
10	25	0.264	0.257	0.007
10	28	0.257	0.260	-0.003
10	30	0.261	0.261	0.000
10	UB33	0.262	0.260	0.002
10	UB35	0.262	0.258	0.004
10	UB36	0.261	0.258	0.003
10	UB39	0.257	0.262	-0.005
10	UB40	0.260	0.261	-0.001
30	43	0.258	0.255	0.003
30	44	0.263	0.259	0.004
30	48	0.258	0.261	-0.003
30	50	0.264	0.260	0.004
30	52	0.260	0.257	0.003
30	UB96	0.262	0.258	0.004
30	UB98	0.259	0.260	-0.001
30	UB99	0.263	0.255	0.008
30	UB101	0.260	0.260	0.000
30	UB102	0.260	0.257	0.003
50	105	0.256	0.261	-0.005
50	108	0.264	0.255	0.009
50	107	0.259	0.258	0.001
50	111	0.259	0.257	0.002
50	113	0.260	0.256	0.004
50	114	0.260	0.256	0.004
50	115	0.262	0.258	0.004
50	119	0.263	0.256	0.007
50	118	0.264	0.259	0.005
50	121	0.257	0.258	-0.001
50	124	0.260	0.258	0.002
50	125	0.258	0.261	-0.003
50	128	0.260	0.259	0.001
50	130	0.262	0.258	0.004
50	131	0.263	0.259	0.004
50	133	0.264	0.261	0.003
50	134	0.262	0.257	0.005
50	135	0.262	0.257	0.005
50	137	0.259	0.257	0.002
50	298	0.256	0.260	-0.004
50	299	0.260	0.261	-0.001
50	UB293	0.260	0.259	0.001
50	UB294	0.262	0.255	0.007
50	UB295	0.261	0.260	0.001
50	UB296	0.261	0.257	0.004
50	UB297	0.260	0.258	0.002
50	Max	0.265	0.281	0.012
50	Average	0.261	0.259	0.002
50	Min	0.256	0.253	-0.019
50	Std Dev	0.002	0.004	0.005



400.7_IIH_CANL_12V_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	0.595	
Min Limit	0.155	

KRAD	0	3	10	30	50
LL	0.155	0.155	0.155	0.155	0.155
Min	0.281	0.253	0.254	0.255	0.255
Average	0.281	0.258	0.259	0.258	0.258
Max	0.281	0.262	0.262	0.261	0.261
UL	0.595	0.595	0.595	0.595	0.595

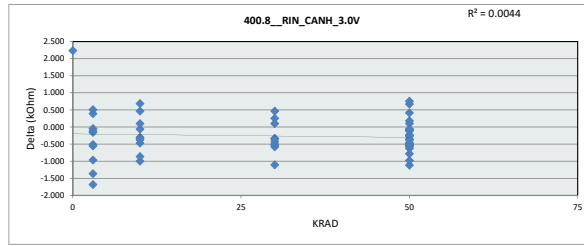


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

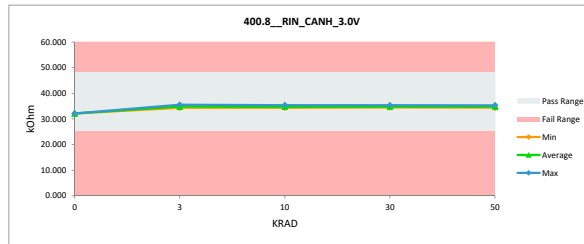
400.8_RIN_CANH_3.0V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	48	48
Min Limit	25.1	25.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	34.331	32.101	2.230
3	1	34.938	34.550	0.388
3	2	34.656	34.815	-0.159
3	3	34.841	34.337	0.504
3	6	33.859	35.543	-1.684
3	11	34.772	34.820	-0.048
3	UB14	34.381	34.896	-0.515
3	UB16	34.109	35.075	-0.966
3	UB18	34.304	34.415	-0.111
3	UB19	33.944	35.310	-1.366
3	UB22	33.985	34.541	-0.556
10	23	34.841	35.146	-0.305
10	24	34.377	35.377	-1.000
10	25	34.065	34.929	-0.864
10	28	34.973	34.510	0.463
10	30	34.335	34.399	-0.064
10	UB33	34.300	34.626	-0.326
10	UB35	34.322	34.794	-0.472
10	UB36	34.465	34.839	-0.374
10	UB39	35.026	34.344	0.682
10	UB40	34.555	34.458	0.097
30	43	34.795	35.326	-0.531
30	44	34.131	34.710	-0.579
30	48	34.927	34.463	0.464
30	50	34.045	34.550	-0.505
30	52	34.573	34.905	-0.332
30	UB96	34.328	34.756	-0.428
30	UB98	34.764	34.512	0.252
30	UB99	34.093	35.202	-1.109
30	UB101	34.649	34.549	0.100
30	UB102	34.554	34.906	-0.352
50	105	35.118	34.451	0.667
50	108	34.104	35.223	-1.119
50	107	34.697	34.816	-0.119
50	111	34.646	34.885	-0.239
50	113	34.594	35.064	-0.470
50	114	34.613	35.119	-0.506
50	115	34.270	34.816	-0.546
50	119	34.249	35.036	-0.787
50	118	34.038	34.595	-0.557
50	121	34.912	34.815	0.097
50	124	34.658	34.738	-0.080
50	125	34.889	34.479	0.410
50	128	34.539	34.627	-0.088
50	130	34.285	34.768	-0.483
50	131	34.120	34.667	-0.547
50	133	34.028	34.381	-0.353
50	134	34.252	34.881	-0.629
50	135	34.341	34.923	-0.582
50	137	34.691	34.929	-0.238
50	298	35.212	34.458	0.754
50	299	34.587	34.408	0.179
50	UB293	34.567	34.628	-0.061
50	UB294	34.312	35.293	-0.981
50	UB295	34.354	34.619	-0.265
50	UB296	34.465	34.975	-0.512
50	UB297	34.470	34.856	-0.386
50	Max	35.212	35.543	2.230
50	Average	34.478	34.740	-0.262
50	Min	33.859	32.101	-1.684
50	Std Dev	0.323	0.461	0.608



400.8_RIN_CANH_3.0V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	48	kOhm
Min Limit	25.1	kOhm

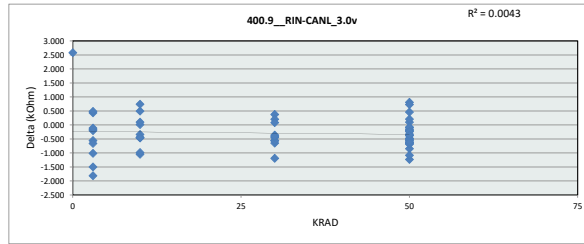
KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	32.101	34.337	34.344	34.463	34.381
Average	32.101	34.830	34.742	34.788	34.787
Max	32.101	35.543	35.377	35.326	35.293
UL	48.000	48.000	48.000	48.000	48.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

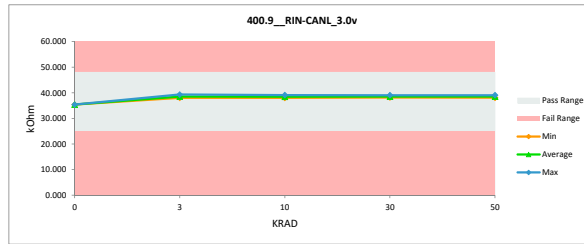
400.9_RIN-CANL_3.0v		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	48	48
Min Limit	25.1	25.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	38.009	35.428	2.581
3	1	38.650	38.220	0.430
3	2	38.347	38.550	-0.203
3	3	38.515	38.032	0.483
3	6	37.515	39.332	-1.817
3	11	38.444	38.605	-0.161
3	UB14	38.064	38.622	-0.558
3	UB16	37.827	38.843	-1.016
3	UB18	38.019	38.131	-0.112
3	UB19	37.598	39.098	-1.500
3	UB22	37.659	38.322	-0.663
10	23	38.515	38.961	-0.446
10	24	38.077	39.125	-1.048
10	25	37.726	38.713	-0.987
10	28	38.705	38.212	0.493
10	30	38.066	38.054	0.012
10	UB33	37.999	38.343	-0.344
10	UB35	38.031	38.499	-0.468
10	UB36	38.138	38.593	-0.455
10	UB39	38.771	38.032	0.739
10	UB40	38.283	38.184	0.099
30	43	38.515	39.074	-0.559
30	44	37.806	38.458	-0.652
30	48	38.566	38.195	0.371
30	50	37.727	38.289	-0.562
30	52	38.291	38.653	-0.362
30	UB96	38.039	38.491	-0.452
30	UB98	38.452	38.248	0.204
30	UB99	37.788	38.983	-1.195
30	UB101	38.348	38.268	0.080
30	UB102	38.256	38.668	-0.412
50	105	38.910	38.104	0.806
50	108	37.710	38.942	-1.232
50	107	38.449	38.547	-0.098
50	111	38.417	38.635	-0.218
50	113	38.299	38.777	-0.478
50	114	38.330	38.869	-0.539
50	115	38.000	38.541	-0.541
50	119	37.884	38.732	-0.848
50	118	37.695	38.332	-0.637
50	121	38.677	38.576	0.101
50	124	38.349	38.503	-0.154
50	125	38.609	38.148	0.461
50	128	38.194	38.382	-0.188
50	130	37.987	38.487	-0.500
50	131	37.794	38.411	-0.617
50	133	37.725	38.107	-0.382
50	134	37.945	38.604	-0.659
50	135	38.037	38.726	-0.689
50	137	38.384	38.716	-0.332
50	298	38.923	38.197	0.726
50	299	38.329	38.123	0.206
50	UB293	38.289	38.366	-0.077
50	UB294	37.990	39.073	-1.083
50	UB295	38.074	38.314	-0.240
50	UB296	38.167	38.780	-0.613
50	UB297	38.206	38.574	-0.368
50	Max	38.923	39.332	2.581
50	Average	38.178	38.470	-0.293
50	Min	37.515	35.428	-1.817
50	Std Dev	0.340	0.517	0.668



400.9_RIN-CANL_3.0v		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	48	kOhm
Min Limit	25.1	kOhm

KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	35.428	38.032	38.032	38.195	38.104
Average	35.428	38.576	38.472	38.533	38.522
Max	35.428	39.332	39.125	39.074	39.073
UL	48.000	48.000	48.000	48.000	48.000

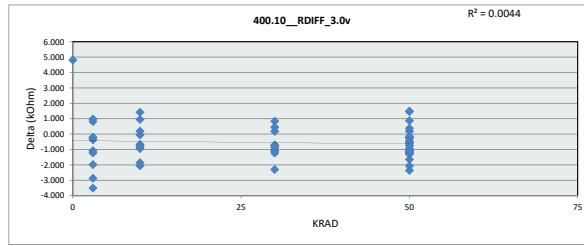


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

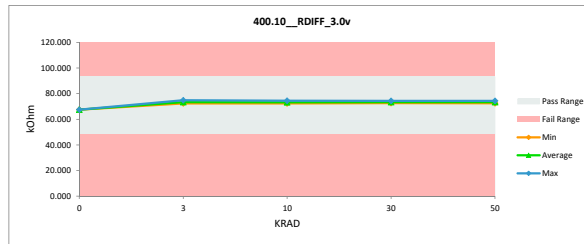
400.10_RDIFFF_3.0v		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	93	93
Min Limit	48.1	48.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	72.340	67.528	4.812
3	1	73.587	72.770	0.817
3	2	73.003	73.365	-0.362
3	3	73.356	72.370	0.986
3	6	71.375	74.876	-3.501
3	11	73.216	73.424	-0.208
3	UB14	72.445	73.518	-1.073
3	UB16	71.936	73.918	-1.982
3	UB18	72.323	72.546	-0.223
3	UB19	71.542	74.408	-2.866
3	UB22	71.644	72.862	-1.218
10	23	73.356	74.107	-0.751
10	24	72.454	74.501	-2.047
10	25	71.791	73.642	-1.851
10	28	73.678	72.722	0.956
10	30	72.401	72.453	-0.052
10	UB33	72.299	72.969	-0.670
10	UB35	72.353	73.293	-0.940
10	UB36	72.603	73.431	-0.828
10	UB39	73.797	72.376	1.421
10	UB40	72.838	72.642	0.196
30	43	73.310	74.401	-1.091
30	44	71.937	73.168	-1.231
30	48	73.493	72.658	0.835
30	50	71.772	72.839	-1.067
30	52	72.863	73.558	-0.695
30	UB96	72.367	73.247	-0.880
30	UB98	73.216	72.760	0.456
30	UB99	71.881	74.185	-2.304
30	UB101	72.997	72.817	0.180
30	UB102	72.809	73.575	-0.766
50	105	74.028	72.555	1.473
50	108	71.813	74.165	-2.352
50	107	73.146	73.363	-0.217
50	111	73.064	73.520	-0.456
50	113	72.893	73.841	-0.948
50	114	72.943	73.988	-1.045
50	115	72.270	73.357	-1.087
50	119	72.133	73.768	-1.635
50	118	71.732	72.928	-1.196
50	121	73.589	73.392	0.197
50	124	73.007	73.241	-0.234
50	125	73.498	72.626	0.872
50	128	72.733	73.008	-0.275
50	130	72.272	73.255	-0.983
50	131	71.914	73.078	-1.164
50	133	71.753	72.487	-0.734
50	134	72.196	73.485	-1.289
50	135	72.378	73.649	-1.271
50	137	73.075	73.646	-0.571
50	298	74.135	72.655	1.480
50	299	72.916	72.531	0.385
50	UB293	72.856	72.994	-0.138
50	UB294	72.302	74.366	-2.064
50	UB295	72.428	72.932	-0.504
50	UB296	72.630	73.755	-1.125
50	UB297	72.677	73.430	-0.753
50	Max	74.135	74.876	4.812
50	Average	72.655	73.210	-0.554
50	Min	71.375	67.528	-3.501
50	Std Dev	0.663	0.978	1.275



400.10_RDIFFF_3.0v		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	93	kOhm
Min Limit	48.1	kOhm

KRAD	0	3	10	30	50
LL	48.100	48.100	48.100	48.100	48.100
Min	67.528	72.370	72.376	72.658	72.487
Average	67.528	73.406	73.214	73.321	73.308
Max	67.528	74.876	74.501	74.401	74.366
UL	93.000	93.000	93.000	93.000	93.000

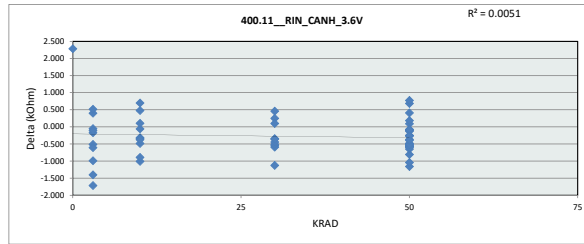


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

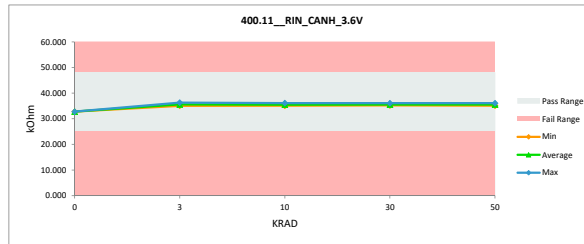
400.11_RIN_CANH_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	48	48
Min Limit	25.1	25.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	35.049	32.769	2.280
3	1	35.675	35.278	0.397
3	2	35.376	35.550	-0.174
3	3	35.569	35.057	0.512
3	6	34.574	36.292	-1.718
3	11	35.498	35.551	-0.053
3	UB14	35.109	35.623	-0.514
3	UB16	34.827	35.817	-0.990
3	UB18	35.032	35.138	-0.106
3	UB19	34.660	36.061	-1.401
3	UB22	34.705	35.313	-0.608
10	23	35.569	35.889	-0.320
10	24	35.107	36.119	-1.012
10	25	34.783	35.675	-0.892
10	28	35.706	35.231	0.475
10	30	35.063	35.122	-0.059
10	UB33	35.019	35.362	-0.343
10	UB35	35.047	35.533	-0.486
10	UB36	35.193	35.569	-0.376
10	UB39	35.764	35.069	0.695
10	UB40	35.283	35.181	0.102
30	43	35.522	36.074	-0.552
30	44	34.848	35.442	-0.594
30	48	35.656	35.196	0.460
30	50	34.765	35.277	-0.512
30	52	35.297	35.642	-0.345
30	UB96	35.050	35.493	-0.443
30	UB98	35.481	35.232	0.249
30	UB99	34.812	35.940	-1.128
30	UB101	35.371	35.272	0.099
30	UB102	35.284	35.645	-0.361
50	105	35.858	35.176	0.682
50	108	34.818	35.980	-1.162
50	107	35.420	35.547	-0.127
50	111	35.374	35.630	-0.256
50	113	35.312	35.794	-0.482
50	114	35.338	35.876	-0.538
50	115	34.997	35.564	-0.567
50	119	34.972	35.781	-0.809
50	118	34.753	35.332	-0.579
50	121	35.643	35.556	0.087
50	124	35.389	35.476	-0.087
50	125	35.617	35.209	0.408
50	128	35.260	35.366	-0.106
50	130	35.007	35.512	-0.505
50	131	34.827	35.403	-0.576
50	133	34.744	35.112	-0.368
50	134	34.971	35.621	-0.650
50	135	35.064	35.667	-0.603
50	137	35.423	35.674	-0.251
50	298	35.956	35.187	0.769
50	299	35.320	35.140	0.180
50	UB293	35.290	35.367	-0.077
50	UB294	35.024	36.067	-1.043
50	UB295	35.079	35.344	-0.265
50	UB296	35.186	35.716	-0.530
50	UB297	35.192	35.587	-0.395
50	Max	35.956	36.292	2.280
50	Average	35.202	35.475	-0.273
50	Min	34.574	32.769	-1.718
50	Std Dev	0.328	0.473	0.623



400.11_RIN_CANH_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	48	kOhm
Min Limit	25.1	kOhm

KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	32.769	35.057	35.069	35.196	35.112
Average	32.769	35.568	35.475	35.521	35.526
Max	32.769	36.292	36.119	36.074	36.067
UL	48.000	48.000	48.000	48.000	48.000

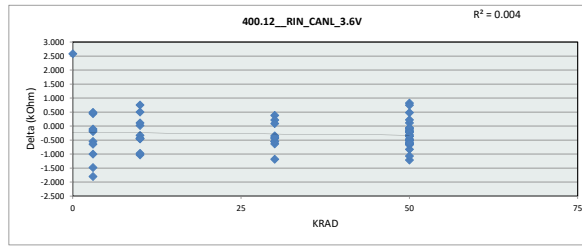


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

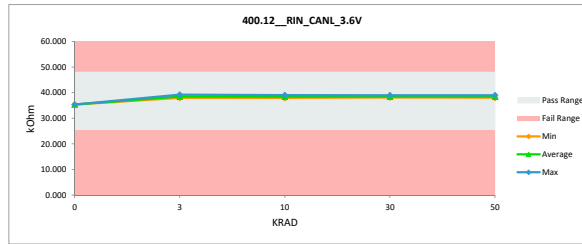
400.12_RIN_CANL_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	48	48
Min Limit	25.1	25.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	37.955	35.375	2.580
3	1	38.597	38.157	0.440
3	2	38.295	38.491	-0.196
3	3	38.460	37.973	0.487
3	6	37.463	39.266	-1.803
3	11	38.392	38.546	-0.154
3	UB14	38.007	38.562	-0.555
3	UB16	37.776	38.782	-1.006
3	UB18	37.965	38.071	-0.106
3	UB19	37.549	39.035	-1.486
3	UB22	37.610	38.263	-0.653
10	23	38.460	38.898	-0.438
10	24	38.023	39.059	-1.036
10	25	37.676	38.650	-0.974
10	28	38.649	38.151	0.498
10	30	38.013	37.993	0.020
10	UB33	37.945	38.283	-0.338
10	UB35	37.978	38.437	-0.459
10	UB36	38.084	38.533	-0.449
10	UB39	38.723	37.974	0.749
10	UB40	38.232	38.123	0.109
30	43	38.460	39.012	-0.552
30	44	37.755	38.396	-0.641
30	48	38.515	38.134	0.381
30	50	37.676	38.229	-0.553
30	52	38.239	38.592	-0.353
30	UB96	37.982	38.426	-0.444
30	UB98	38.400	38.187	0.213
30	UB99	37.736	38.925	-1.189
30	UB101	38.294	38.205	0.089
30	UB102	38.204	38.607	-0.403
50	105	38.858	38.039	0.819
50	108	37.661	38.878	-1.217
50	107	38.395	38.483	-0.088
50	111	38.364	38.570	-0.206
50	113	38.246	38.715	-0.469
50	114	38.276	38.802	-0.526
50	115	37.947	38.478	-0.531
50	119	37.833	38.665	-0.832
50	118	37.644	38.266	-0.622
50	121	38.627	38.515	0.112
50	124	38.299	38.440	-0.141
50	125	38.556	38.083	0.473
50	128	38.138	38.322	-0.184
50	130	37.934	38.426	-0.492
50	131	37.742	38.350	-0.608
50	133	37.675	38.043	-0.368
50	134	37.892	38.541	-0.649
50	135	37.986	38.661	-0.675
50	137	38.332	38.653	-0.321
50	298	38.873	38.130	0.743
50	299	38.276	38.056	0.220
50	UB293	38.238	38.300	-0.062
50	UB294	37.940	39.015	-1.075
50	UB295	38.021	38.254	-0.233
50	UB296	38.115	38.720	-0.605
50	UB297	38.151	38.513	-0.362
50	Max	38.873	39.266	2.580
50	Average	38.125	38.408	-0.283
50	Min	37.463	35.375	-1.803
50	Std Dev	0.340	0.516	0.666



400.12_RIN_CANL_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	48	kOhm
Min Limit	25.1	kOhm

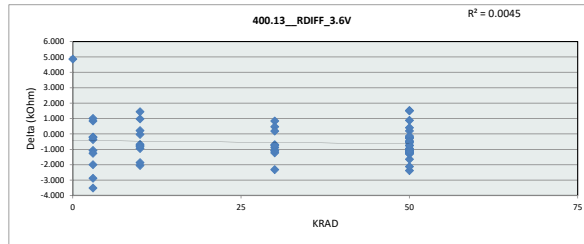
KRAD	0	3	10	30	50
LL	25.100	25.100	25.100	25.100	25.100
Min	35.375	37.973	37.974	38.134	38.039
Average	35.375	38.515	38.410	38.471	38.458
Max	35.375	39.266	39.059	39.012	39.015
UL	48.000	48.000	48.000	48.000	48.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

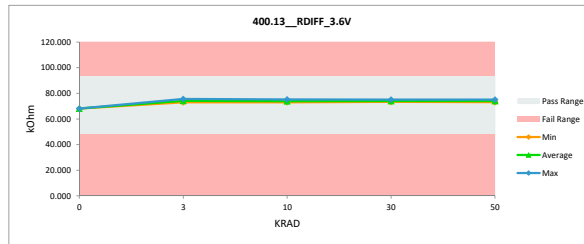
400.13_RDIFF_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	kOhm	kOhm
Max Limit	93	93
Min Limit	48.1	48.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	73.004	68.145	4.859
3	1	74.271	73.435	0.836
3	2	73.671	74.041	-0.370
3	3	74.030	73.030	1.000
3	6	72.038	75.558	-3.520
3	11	73.890	74.097	-0.207
3	UB14	73.116	74.185	-1.069
3	UB16	72.603	74.599	-1.996
3	UB18	72.997	73.209	-0.212
3	UB19	72.209	75.095	-2.886
3	UB22	72.314	73.575	-1.261
10	23	74.030	74.787	-0.757
10	24	73.130	75.178	-2.048
10	25	72.459	74.324	-1.865
10	28	74.355	73.382	0.973
10	30	73.076	73.115	-0.039
10	UB33	72.964	73.645	-0.681
10	UB35	73.025	73.970	-0.945
10	UB36	73.277	74.102	-0.825
10	UB39	74.487	73.044	1.443
10	UB40	73.515	73.304	0.211
30	43	73.982	75.086	-1.104
30	44	72.604	73.838	-1.234
30	48	74.171	73.330	0.841
30	50	72.441	73.506	-1.065
30	52	73.536	74.234	-0.698
30	UB96	73.032	73.919	-0.887
30	UB98	73.881	73.419	0.462
30	UB99	72.548	74.865	-2.317
30	UB101	73.654	73.477	0.187
30	UB102	73.488	74.252	-0.764
50	105	74.716	73.215	1.501
50	108	72.480	74.858	-2.378
50	107	73.815	74.030	-0.215
50	111	73.737	74.200	-0.463
50	113	73.558	74.509	-0.951
50	114	73.614	74.678	-1.064
50	115	72.943	74.042	-1.099
50	119	72.805	74.446	-1.641
50	118	72.397	73.597	-1.200
50	121	74.269	74.071	0.198
50	124	73.688	73.916	-0.228
50	125	74.174	73.292	0.882
50	128	73.398	73.688	-0.290
50	130	72.941	73.938	-0.997
50	131	72.569	73.754	-1.185
50	133	72.419	73.155	-0.736
50	134	72.863	74.162	-1.299
50	135	73.050	74.328	-1.278
50	137	73.755	74.327	-0.572
50	298	74.829	73.317	1.512
50	299	73.597	73.196	0.401
50	UB293	73.528	73.668	-0.140
50	UB294	72.965	75.083	-2.118
50	UB295	73.100	73.598	-0.498
50	UB296	73.301	74.436	-1.135
50	UB297	73.342	74.100	-0.758
50	Max	74.829	75.558	4.859
50	Average	73.327	73.883	-0.556
50	Min	72.038	68.145	-3.520
50	Std Dev	0.668	0.988	1.288



400.13_RDIFF_3.6V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	93	kOhm
Min Limit	48.1	kOhm

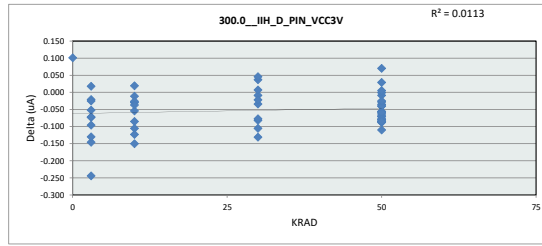
KRAD	0	3	10	30	50
LL	48.100	48.100	48.100	48.100	48.100
Min	68.145	73.030	73.044	73.330	73.155
Average	68.145	74.082	73.885	73.993	73.985
Max	68.145	75.558	75.178	75.086	75.083
UL	93.000	93.000	93.000	93.000	93.000



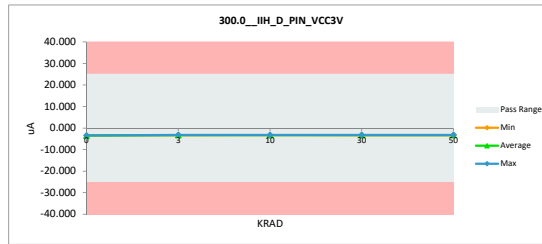
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

300.0_IH_D_PIN_VCC3V			
Test Site	Junkins		Junkins
Tester	ETS10		ETS10
Test Number	EF580302		EF580302
Unit	uA		uA
Max Limit	25		25
Min Limit	-25		-25

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	-3.337	-3.438	0.101
3	1	-3.290	-3.269	-0.021
3	2	-3.281	-3.208	-0.073
3	3	-3.296	-3.271	-0.025
3	6	-3.407	-3.163	-0.244
3	11	-3.281	-3.299	0.018
3	UB14	-3.350	-3.204	-0.146
3	UB16	-3.323	-3.271	-0.052
3	UB18	-3.349	-3.277	-0.072
3	UB19	-3.366	-3.236	-0.130
3	UB22	-3.387	-3.291	-0.096
10	23	-3.296	-3.266	-0.030
10	24	-3.343	-3.193	-0.150
10	25	-3.337	-3.283	-0.054
10	28	-3.243	-3.232	-0.011
10	30	-3.345	-3.260	-0.085
10	UB33	-3.287	-3.261	-0.026
10	UB35	-3.289	-3.252	-0.037
10	UB36	-3.319	-3.214	-0.105
10	UB39	-3.243	-3.262	0.019
10	UB40	-3.360	-3.237	-0.123
30	43	-3.316	-3.211	-0.105
30	44	-3.324	-3.242	-0.082
30	48	-3.264	-3.301	0.037
30	50	-3.323	-3.246	-0.077
30	52	-3.305	-3.271	-0.034
30	UB96	-3.300	-3.291	-0.009
30	UB98	-3.218	-3.264	0.046
30	UB99	-3.324	-3.193	-0.131
30	UB101	-3.228	-3.235	0.007
30	UB102	-3.293	-3.271	-0.022
50	105	-3.248	-3.239	-0.009
50	108	-3.302	-3.233	-0.069
50	107	-3.274	-3.246	-0.028
50	111	-3.330	-3.251	-0.079
50	113	-3.278	-3.168	-0.110
50	114	-3.319	-3.263	-0.056
50	115	-3.322	-3.266	-0.056
50	119	-3.330	-3.242	-0.088
50	118	-3.327	-3.256	-0.071
50	121	-3.297	-3.257	-0.040
50	124	-3.292	-3.222	-0.070
50	125	-3.280	-3.279	-0.001
50	128	-3.237	-3.307	0.070
50	130	-3.299	-3.264	-0.035
50	131	-3.302	-3.239	-0.063
50	133	-3.358	-3.272	-0.086
50	134	-3.323	-3.239	-0.084
50	135	-3.308	-3.249	-0.059
50	137	-3.281	-3.286	0.005
50	298	-3.216	-3.245	0.029
50	299	-3.336	-3.258	-0.078
50	UB293	-3.315	-3.236	-0.079
50	UB294	-3.297	-3.213	-0.084
50	UB295	-3.326	-3.241	-0.085
50	UB296	-3.278	-3.238	-0.040
50	UB297	-3.267	-3.242	-0.025
50	Max	-3.216	-3.163	0.101
50	Average	-3.305	-3.252	-0.053
50	Min	-3.407	-3.438	-0.244
50	Std Dev	0.040	0.039	0.058

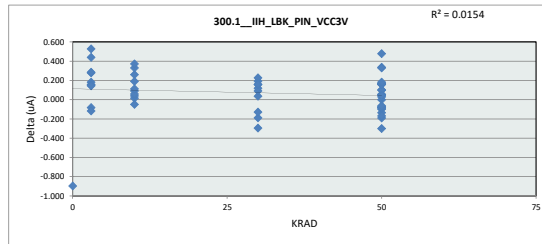


300.0_IH_D_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25 uA				
Min Limit	-25 uA				
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-3.438	-3.299	-3.283	-3.301	-3.307
Average	-3.438	-3.249	-3.246	-3.253	-3.248
Max	-3.438	-3.163	-3.193	-3.193	-3.168
UL	25.000	25.000	25.000	25.000	25.000



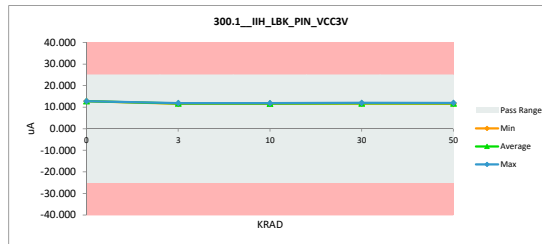
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

300.1_IIH_LBK_PIN_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25



KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	11.904	12.801	-0.897
3	1	11.817	11.899	-0.082
3	2	12.015	11.834	0.181
3	3	11.721	11.838	-0.117
3	6	12.169	11.729	0.440
3	11	11.883	11.732	0.151
3	UB14	12.080	11.802	0.278
3	UB16	11.862	11.577	0.285
3	UB18	11.892	11.736	0.156
3	UB19	12.100	11.573	0.527
3	UB22	12.079	11.936	0.143
10	23	11.721	11.631	0.090
10	24	11.856	11.597	0.259
10	25	11.950	11.620	0.330
10	28	11.809	11.794	0.015
10	30	11.868	11.830	0.038
10	UB33	12.120	11.749	0.371
10	UB35	11.877	11.819	0.058
10	UB36	11.783	11.593	0.190
10	UB39	11.821	11.871	-0.050
10	UB40	11.953	11.842	0.111
30	43	11.735	11.699	0.036
30	44	11.940	11.850	0.090
30	48	11.686	11.875	-0.189
30	50	11.998	11.807	0.191
30	52	12.033	11.915	0.118
30	UB96	11.874	11.718	0.156
30	UB98	11.659	11.788	-0.129
30	UB99	11.939	11.713	0.226
30	UB101	11.736	12.031	-0.295
30	UB102	11.888	11.730	0.158
50	105	11.818	11.918	-0.100
50	108	12.232	11.755	0.477
50	107	11.741	11.816	-0.075
50	111	11.763	11.954	-0.191
50	113	11.924	11.588	0.336
50	114	11.686	11.632	0.054
50	115	11.955	11.957	-0.002
50	119	12.005	11.676	0.329
50	118	11.974	11.812	0.162
50	121	11.647	11.783	-0.136
50	124	11.776	11.855	-0.079
50	125	11.682	11.983	-0.301
50	128	12.001	11.902	0.099
50	130	11.894	11.866	0.028
50	131	11.983	11.823	0.160
50	133	12.032	11.867	0.165
50	134	11.815	11.647	0.168
50	135	11.831	11.775	0.056
50	137	11.789	11.688	0.101
50	298	11.714	11.801	-0.087
50	299	11.792	11.874	-0.082
50	UB293	11.735	11.800	-0.065
50	UB294	11.920	11.763	0.157
50	UB295	11.806	11.976	-0.170
50	UB296	11.743	11.701	0.042
50	UB297	11.919	11.832	0.182
50	Max	12.232	12.801	0.527
50	Average	11.876	11.805	0.071
50	Min	11.647	11.573	-0.897
50	Std Dev	0.135	0.174	0.224

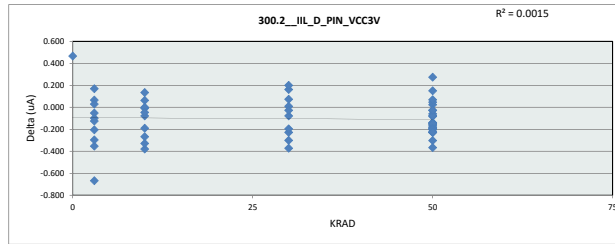
300.1_IIH_LBK_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25 uA				
Min Limit	-25 uA				
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.801	11.573	11.593	11.699	11.588
Average	12.801	11.766	11.735	11.813	11.806
Max	12.801	11.936	11.871	12.031	11.983
UL	25.000	25.000	25.000	25.000	25.000



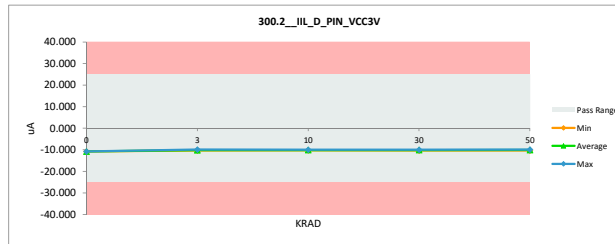
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

300.2_IIL_D_PIN_VCC3V			
Test Site	Junkins	Junkins	
Tester	ETS10	ETS10	
Test Number	EF580302	EF580302	
Unit	uA	uA	
Max Limit	25	25	
Min Limit	-25	-25	

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-10.306	-10.772	0.466
3	1	-10.153	-10.220	0.067
3	2	-10.124	-10.026	-0.098
3	3	-10.197	-10.227	0.030
3	6	-10.526	-9.859	-0.667
3	11	-10.125	-10.295	0.170
3	UB14	-10.347	-9.994	-0.353
3	UB16	-10.270	-10.219	-0.051
3	UB18	-10.357	-10.233	-0.124
3	UB19	-10.409	-10.113	-0.296
3	UB22	-10.478	-10.274	-0.204
10	23	-10.197	-10.189	-0.008
10	24	-10.349	-9.971	-0.378
10	25	-10.339	-10.261	-0.078
10	28	-10.037	-10.101	0.064
10	30	-10.368	-10.178	-0.190
10	UB33	-10.191	-10.192	0.001
10	UB35	-10.202	-10.156	-0.046
10	UB36	-10.301	-10.034	-0.267
10	UB39	-10.060	-10.195	0.135
10	UB40	-10.432	-10.105	-0.327
30	43	-10.294	-9.994	-0.300
30	44	-10.319	-10.091	-0.228
30	48	-10.135	-10.298	0.163
30	50	-10.319	-10.124	-0.195
30	52	-10.263	-10.185	-0.078
30	UB96	-10.247	-10.257	0.010
30	UB98	-9.982	-10.182	0.200
30	UB99	-10.328	-9.957	-0.371
30	UB101	-10.016	-10.090	0.074
30	UB102	-10.225	-10.198	-0.027
50	105	-10.083	-10.107	0.024
50	108	-10.253	-10.091	-0.162
50	107	-10.163	-10.136	-0.027
50	111	-10.344	-10.147	-0.197
50	113	-10.176	-9.875	-0.301
50	114	-10.309	-10.170	-0.139
50	115	-10.316	-10.175	-0.141
50	119	-10.344	-10.115	-0.229
50	118	-10.334	-10.149	-0.185
50	121	-10.238	-10.156	-0.082
50	124	-10.218	-10.040	-0.178
50	125	-10.184	-10.232	0.048
50	128	-10.045	-10.319	0.274
50	130	-10.244	-10.186	-0.058
50	131	-10.254	-10.103	-0.151
50	133	-10.584	-10.218	-0.366
50	134	-10.322	-10.096	-0.226
50	135	-10.276	-10.127	-0.149
50	137	-10.181	-10.250	0.069
50	298	-9.975	-10.126	0.151
50	299	-10.364	-10.171	-0.193
50	UB293	-10.291	-10.088	-0.203
50	UB294	-10.241	-10.017	-0.224
50	UB295	-10.330	-10.106	-0.224
50	UB296	-10.176	-10.101	-0.075
50	UB297	-10.139	-10.112	-0.027
50	Max	-9.975	-9.859	0.466
50	Average	-10.251	-10.147	-0.103
50	Min	-10.584	-10.772	-0.667
50	Std Dev	0.126	0.129	0.189



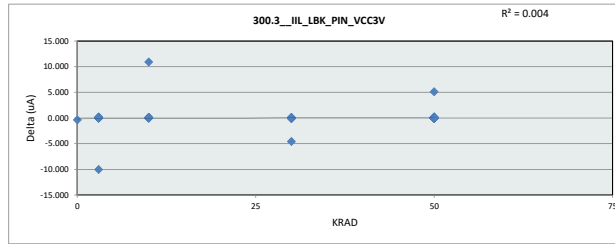
300.2_IIL_D_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25 uA				
Min Limit	-25 uA				
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-10.772	-10.295	-10.261	-10.298	-10.319
Average	-10.772	-10.146	-10.138	-10.138	-10.131
Max	-10.772	-9.859	-9.971	-9.957	-9.875
UL	25.000	25.000	25.000	25.000	25.000



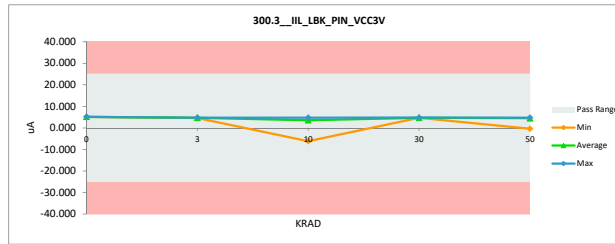
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

300.3_IL_LBK_PIN_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	4.740	5.125	-0.385
3	1	4.706	4.763	-0.057
3	2	4.784	4.734	0.050
3	3	4.667	4.739	-0.072
3	6	-5.359	4.696	-10.055
3	11	4.730	4.695	0.035
3	UB14	4.811	4.723	0.088
3	UB16	4.722	4.632	0.090
3	UB18	4.737	4.698	0.039
3	UB19	4.819	4.630	0.189
3	UB22	4.809	4.777	0.032
10	23	4.667	4.657	0.010
10	24	4.722	4.643	0.079
10	25	4.757	4.649	0.108
10	28	4.701	4.720	-0.019
10	30	4.725	4.734	-0.009
10	UB33	4.827	4.703	0.124
10	UB35	4.727	4.729	-0.002
10	UB36	4.692	4.640	0.052
10	UB39	4.706	4.750	-0.044
10	UB40	4.758	-6.131	10.889
30	43	4.673	4.683	-0.010
30	44	4.756	4.742	0.014
30	48	4.652	4.753	-0.101
30	50	4.777	4.726	0.051
30	52	4.792	4.769	0.023
30	UB96	0.081	4.687	-4.606
30	UB98	4.643	4.718	-0.075
30	UB99	4.755	4.687	0.068
30	UB101	4.675	4.815	-0.140
30	UB102	4.735	4.695	0.040
50	105	4.704	4.747	-0.043
50	108	4.871	4.681	0.190
50	107	4.673	4.709	-0.036
50	111	4.684	4.762	-0.078
50	113	4.749	4.616	0.133
50	114	4.652	4.632	0.020
50	115	4.760	4.764	-0.004
50	119	4.782	4.651	0.131
50	118	4.770	-0.339	5.109
50	121	4.638	4.691	-0.053
50	124	4.690	4.723	-0.033
50	125	4.653	4.774	-0.121
50	128	4.779	4.741	0.038
50	130	4.737	4.729	0.008
50	131	4.722	4.709	0.063
50	133	4.791	4.725	0.066
50	134	4.703	4.643	0.060
50	135	4.711	4.691	0.020
50	137	4.695	4.660	0.035
50	298	4.663	4.700	-0.037
50	299	4.698	4.729	-0.031
50	UB293	4.673	4.700	-0.027
50	UB294	4.750	4.705	0.045
50	UB295	4.698	4.792	-0.094
50	UB296	4.677	4.681	-0.004
50	UB297	4.747	4.696	0.051
50	Max	4.871	5.125	10.889
50	Average	4.469	4.437	0.032
50	Min	-5.359	-6.131	-10.055
50	Std Dev	1.462	1.576	2.185



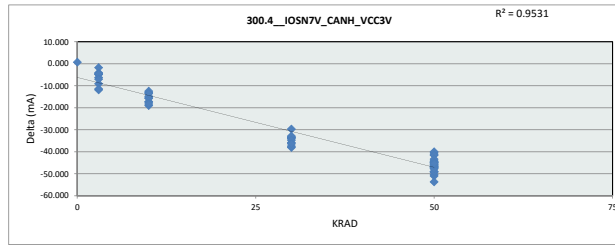
300.3_IL_LBK_PIN_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25 uA				
Min Limit	-25 uA				
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	5.125	4.630	-6.131	4.683	-0.339
Average	5.125	4.709	3.609	4.728	4.512
Max	5.125	4.777	4.750	4.815	4.792
UL	25.000	25.000	25.000	25.000	25.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

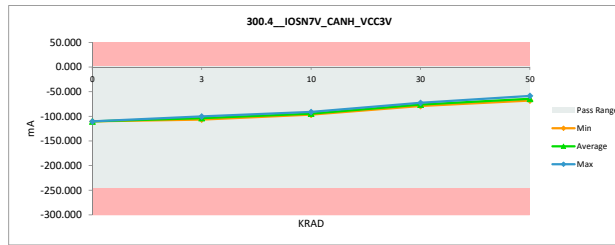
300.4_IOSN7V_CANH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	0.9	0.9
Min Limit	-245	-245

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	-109.626	-110.367	0.741
3	1	-107.744	-103.689	-4.055
3	2	-109.678	-104.755	-4.923
3	3	-108.436	-106.656	-1.780
3	6	-112.076	-100.187	-11.889
3	11	-109.795	-103.556	-6.239
3	UB14	-109.463	-104.794	-4.669
3	UB16	-110.974	-101.845	-9.129
3	UB18	-110.509	-105.969	-4.540
3	UB19	-111.946	-100.510	-11.436
3	UB23	-111.677	-104.710	-6.967
10	23	-108.436	-91.213	-17.223
10	24	-110.845	-91.844	-19.001
10	25	-110.866	-93.447	-17.419
10	28	-109.353	-96.226	-13.127
10	30	-111.201	-95.659	-15.542
10	UB33	-110.713	-95.017	-15.696
10	UB35	-112.382	-94.129	-18.253
10	UB36	-110.416	-95.599	-14.817
10	UB39	-109.214	-96.766	-12.448
10	UB40	-109.211	-95.694	-13.517
30	43	-110.811	-72.747	-38.064
30	44	-112.113	-78.131	-33.982
30	48	-108.953	-79.265	-29.688
30	50	-112.391	-78.943	-33.448
30	52	-107.587	-74.200	-33.387
30	UB96	-109.169	-73.307	-35.862
30	UB98	-111.444	-78.546	-32.898
30	UB99	-112.705	-75.256	-37.449
30	UB101	-111.703	-77.022	-34.681
30	UB102	-111.301	-74.948	-36.353
50	105	-105.858	-65.293	-40.565
50	108	-112.122	-61.144	-50.978
50	107	-110.840	-66.006	-44.834
50	111	-110.327	-60.008	-50.319
50	113	-110.043	-65.797	-44.246
50	114	-110.531	-63.584	-46.947
50	115	-112.375	-63.100	-49.275
50	119	-109.488	-62.306	-47.182
50	118	-112.053	-64.620	-47.433
50	121	-110.021	-64.166	-45.855
50	124	-110.915	-64.696	-46.219
50	125	-108.892	-67.459	-41.433
50	128	-110.748	-63.879	-46.869
50	130	-112.314	-65.581	-46.733
50	131	-111.556	-67.198	-44.358
50	133	-112.210	-67.163	-45.047
50	134	-112.342	-63.269	-49.073
50	135	-110.897	-61.841	-49.056
50	137	-110.663	-62.924	-47.739
50	298	-107.712	-67.654	-40.058
50	299	-109.519	-67.961	-41.558
50	UB293	-110.863	-67.523	-43.340
50	UB294	-112.239	-58.577	-53.662
50	UB295	-110.483	-65.681	-44.802
50	UB296	-111.853	-65.850	-46.003
50	UB297	-110.883	-65.567	-45.316
50	Max	-105.858	-58.577	0.741
50	Average	-110.535	-79.541	-30.994
50	Min	-112.705	-110.367	-53.662
50	Std Dev	1.466	16.497	16.822



300.4_IOSN7V_CANH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	0.9	0.9
Min Limit	-245	-245

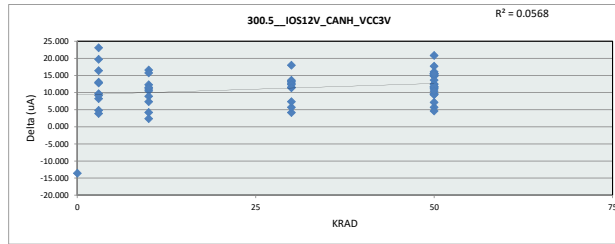
KRAD	0	3	10	30	50
LL	-245.000	-245.000	-245.000	-245.000	-245.000
Min	-110.367	-106.656	-96.766	-79.265	-67.961
Average	-110.367	-103.667	-94.559	-76.237	-64.571
Max	-110.367	-100.187	-91.213	-72.747	-58.577
UL	0.900	0.900	0.900	0.900	0.900



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

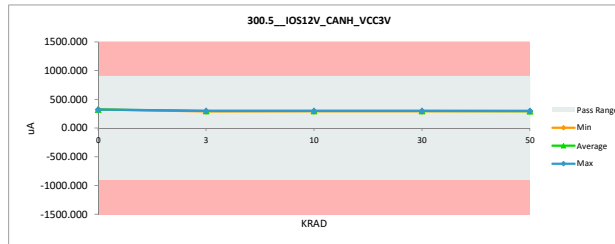
300.5_IOS12V_CANH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

KRAD	Serial #	PRE_RAD	POST_ANNEAL	Delta
0	C1	309.333	322.880	-13.547
3	1	304.315	299.521	4.794
3	2	306.703	297.018	9.685
3	3	305.310	301.453	3.857
3	6	313.872	290.762	23.110
3	11	305.634	297.391	8.243
3	UB14	309.305	296.473	12.832
3	UB16	311.652	295.246	16.406
3	UB18	310.050	300.891	9.159
3	UB19	313.090	293.338	19.752
3	UB22	312.910	299.873	13.037
10	23	305.310	294.786	10.524
10	24	309.276	292.657	16.619
10	25	312.156	296.411	15.745
10	28	304.188	299.984	4.204
10	30	309.853	300.940	8.913
10	UB33	310.001	298.942	11.059
10	UB35	309.796	297.498	12.298
10	UB36	308.743	297.227	11.516
10	UB39	304.143	301.756	2.387
10	UB40	307.842	300.497	7.345
30	43	305.958	293.191	12.767
30	44	311.767	298.159	13.608
30	48	304.622	300.456	4.166
30	50	312.492	299.242	13.250
30	52	307.826	296.292	11.534
30	UB96	309.882	297.519	12.363
30	UB98	305.773	300.087	5.686
30	UB99	311.898	293.888	18.010
30	UB101	307.010	299.656	7.354
30	UB102	307.928	296.526	11.402
50	105	303.287	297.602	5.685
50	108	311.951	291.095	20.856
50	107	306.412	294.666	11.746
50	111	306.978	294.457	12.521
50	113	307.260	292.403	14.857
50	114	307.338	292.317	15.021
50	115	310.325	294.744	15.581
50	119	310.632	292.907	17.725
50	118	312.283	296.811	15.472
50	121	304.495	294.798	9.697
50	124	307.096	295.659	11.437
50	125	304.929	297.762	7.167
50	128	307.862	296.552	11.310
50	130	310.202	295.355	14.847
50	131	311.496	296.315	15.181
50	133	312.488	298.857	13.631
50	134	310.538	294.478	16.060
50	135	309.624	294.084	15.540
50	137	306.715	294.297	12.418
50	298	302.410	297.795	4.615
50	299	307.768	298.229	9.539
50	UB293	307.912	296.823	11.089
50	UB294	309.853	294.352	15.501
50	UB295	309.710	300.317	9.393
50	UB296	308.907	297.113	11.794
50	UB297	308.547	298.105	10.442
50	Max	313.872	322.880	23.110
50	Average	308.520	297.166	11.354
50	Min	302.410	290.762	-13.547
50	Std Dev	2.809	4.414	5.547



300.5_IOS12V_CANH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	900	uA
Min Limit	-900	uA

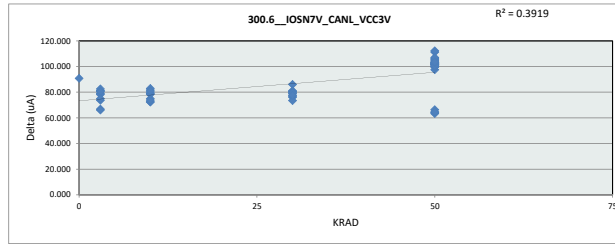
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	322.880	290.762	292.657	293.191	291.095
Average	322.880	297.197	298.070	297.502	295.688
Max	322.880	301.453	301.756	300.456	300.317
UL	900.000	900.000	900.000	900.000	900.000



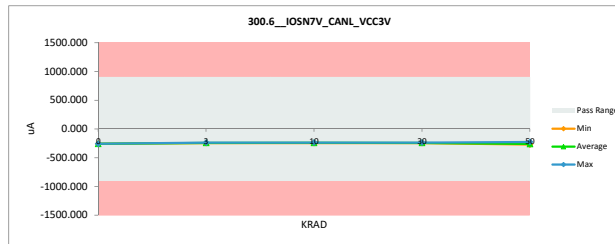
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

300.6_IOSN7V_CANL_VCC3V			
Test Site	Junkins		Junkins
Tester	ETS10		ETS10
Test Number	EF580302		EF580302
Unit	uA		uA
Max Limit	900		900
Min Limit	-900		-900

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-167.092	-257.795	90.703
3	1	-165.204	-246.379	81.175
3	2	-164.752	-245.640	80.888
3	3	-162.412	-244.941	82.529
3	6	-172.182	-239.028	66.846
3	11	-163.726	-242.560	78.834
3	UB14	-165.778	-243.956	78.178
3	UB16	-168.611	-242.272	73.661
3	UB18	-165.942	-246.214	80.272
3	UB19	-170.581	-236.605	66.024
3	UB22	-167.831	-242.765	74.934
10	23	-162.412	-237.345	74.933
10	24	-165.614	-237.961	72.347
10	25	-166.558	-238.864	72.306
10	28	-161.386	-242.970	81.584
10	30	-165.532	-244.859	79.327
10	UB33	-164.383	-243.217	78.834
10	UB35	-165.655	-239.439	73.784
10	UB36	-162.741	-240.958	78.217
10	UB39	-161.838	-244.695	82.857
10	UB40	-163.151	-243.956	80.805
30	43	-161.263	-237.304	76.041
30	44	-165.368	-242.231	76.863
30	48	-159.293	-245.270	85.977
30	50	-164.957	-245.065	80.108
30	52	-163.356	-242.067	78.711
30	UB96	-163.274	-244.326	81.052
30	UB98	-162.043	-242.724	80.681
30	UB99	-164.793	-238.166	73.373
30	UB101	-163.151	-242.560	79.409
30	UB102	-163.685	-241.246	77.561
50	105	-160.647	-271.891	111.244
50	108	-168.241	-268.074	99.833
50	107	-162.371	-268.033	105.662
50	111	-163.726	-264.914	101.188
50	113	-164.095	-266.145	102.050
50	114	-163.233	-266.720	103.487
50	115	-165.286	-266.843	101.557
50	119	-165.039	-262.452	97.413
50	118	-166.353	-267.951	101.598
50	121	-162.823	-265.653	102.830
50	124	-163.192	-265.530	102.338
50	125	-161.961	-267.910	105.949
50	128	-163.274	-267.910	104.636
50	130	-164.465	-266.884	102.419
50	131	-166.435	-267.828	101.393
50	133	-167.831	-267.499	99.668
50	134	-164.670	-264.340	99.670
50	135	-164.177	-264.914	100.737
50	137	-161.017	-264.216	103.199
50	298	-156.748	-268.977	112.229
50	299	-161.591	-268.566	106.975
50	UB293	-161.345	-264.832	103.487
50	UB294	-162.987	-227.120	64.133
50	UB295	-163.356	-229.624	66.268
50	UB296	-162.905	-226.257	63.352
50	UB297	-162.864	-227.407	64.543
50	Max	-156.748	-226.257	112.229
50	Average	-164.126	-250.910	86.784
50	Min	-172.182	-271.891	63.352
50	Std Dev	2.615	13.592	14.192



300.6_IOSN7V_CANL_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	900 uA				
Min Limit	-900 uA				
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	-257.795	-246.379	-244.859	-245.270	-271.891
Average	-257.795	-243.036	-241.426	-242.096	-260.711
Max	-257.795	-236.605	-237.345	-237.304	-226.257
UL	900.000	900.000	900.000	900.000	900.000

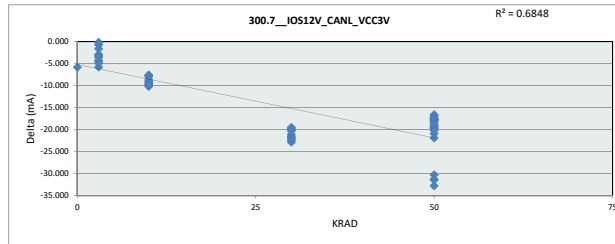


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

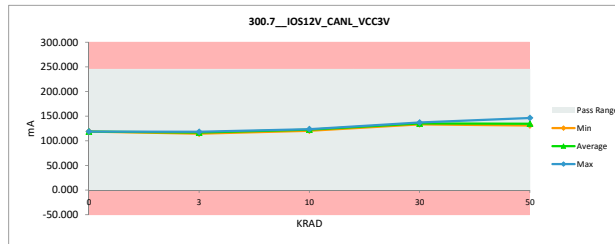
300.7_IOS12V_CANL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	245	245
Min Limit	-0.9	-0.9

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	112.923	118.764	-5.841
3	1	112.661	117.095	-4.434
3	2	112.860	117.224	-4.364
3	3	112.386	118.209	-5.823
3	6	114.312	115.056	-0.744
3	11	113.429	116.701	-3.272
3	UB14	113.350	118.270	-4.920
3	UB16	113.762	115.431	-1.669
3	UB18	113.489	117.132	-3.643
3	UB19	114.164	114.336	-0.172
3	UB22	114.282	117.200	-2.918
10	23	112.386	120.379	-7.993
10	24	113.125	122.180	-9.055
10	25	114.267	121.864	-7.597
10	28	113.152	122.701	-9.549
10	30	114.019	123.202	-9.183
10	UB33	113.773	122.494	-8.721
10	UB35	114.785	122.572	-7.787
10	UB36	113.434	123.391	-9.957
10	UB39	113.271	123.471	-10.200
10	UB40	113.768	123.616	-9.848
30	43	113.383	133.482	-20.099
30	44	114.594	134.345	-19.751
30	48	113.564	134.714	-21.150
30	50	114.804	134.340	-19.536
30	52	111.756	133.328	-21.572
30	UB96	114.711	135.023	-20.312
30	UB98	114.150	137.023	-22.873
30	UB99	114.250	136.662	-22.412
30	UB101	114.443	136.367	-21.924
30	UB102	113.634	135.730	-22.096
50	105	111.809	133.746	-21.937
50	108	114.876	131.515	-16.639
50	107	114.664	131.792	-17.128
50	111	113.794	132.030	-18.236
50	113	114.182	132.255	-18.073
50	114	113.385	131.075	-17.690
50	115	114.310	132.449	-18.139
50	119	114.666	131.399	-16.733
50	118	114.593	132.606	-18.013
50	121	112.577	132.354	-19.777
50	124	114.775	133.982	-19.207
50	125	112.405	133.343	-20.938
50	128	113.998	133.638	-19.640
50	130	114.399	132.279	-17.880
50	131	115.033	132.693	-17.660
50	133	114.799	132.496	-17.697
50	134	114.159	133.506	-19.347
50	135	114.683	132.081	-17.398
50	137	115.096	132.630	-17.534
50	298	113.160	132.319	-19.159
50	299	112.644	132.813	-20.169
50	UB293	114.668	133.379	-18.711
50	UB294	113.863	144.152	-30.289
50	UB295	113.530	146.322	-32.792
50	UB296	114.357	145.804	-31.447
50	UB297	114.996	146.321	-31.325
50	Max	115.096	146.322	-0.172
50	Average	113.830	129.145	-15.315
50	Min	111.756	114.336	-32.792
50	Std Dev	0.847	8.294	8.090



300.7_IOS12V_CANL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	245	mA
Min Limit	-0.9	mA

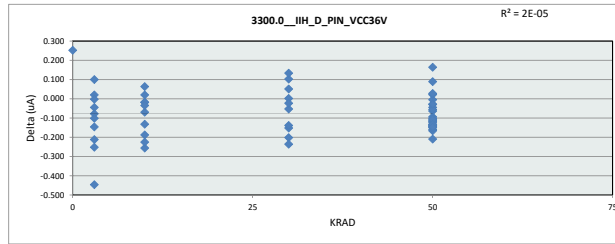
KRAD	0	3	10	30	50
LL	-0.900	-0.900	-0.900	-0.900	-0.900
Min	118.764	114.336	120.379	133.328	131.075
Average	118.764	116.665	122.587	135.101	134.576
Max	118.764	118.270	123.616	137.023	146.322
UL	245.000	245.000	245.000	245.000	245.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

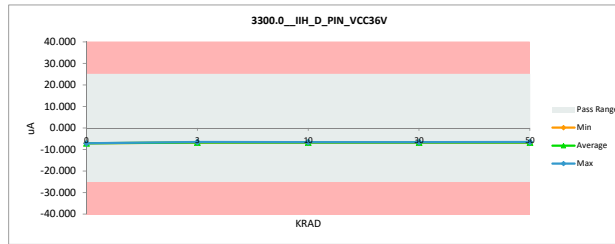
3300.0_IIH_D_PIN_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	uA	
Max Limit	25	
Min Limit	-25	

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-6.839	-7.091	0.252
3	1	-6.739	-6.759	0.020
3	2	-6.715	-6.637	-0.078
3	3	-6.760	-6.758	-0.002
3	6	-6.979	-6.533	-0.446
3	11	-6.715	-6.815	0.100
3	UB14	-6.870	-6.618	-0.252
3	UB16	-6.808	-6.763	-0.045
3	UB18	-6.872	-6.771	-0.101
3	UB19	-6.903	-6.691	-0.212
3	UB22	-6.947	-6.801	-0.146
10	23	-6.760	-6.742	-0.018
10	24	-6.859	-6.603	-0.256
10	25	-6.853	-6.783	-0.070
10	28	-6.655	-6.675	0.020
10	30	-6.867	-6.735	-0.132
10	UB33	-6.758	-6.740	-0.018
10	UB35	-6.760	-6.725	-0.035
10	UB36	-6.826	-6.638	-0.188
10	UB39	-6.679	-6.742	0.063
10	UB40	-6.912	-6.687	-0.225
30	43	-6.824	-6.622	-0.202
30	44	-6.838	-6.686	-0.152
30	48	-6.716	-6.818	0.102
30	50	-6.840	-6.701	-0.139
30	52	-6.801	-6.748	-0.053
30	UB96	-6.787	-6.789	0.002
30	UB98	-6.606	-6.739	0.133
30	UB99	-6.834	-6.598	-0.236
30	UB101	-6.632	-6.683	0.051
30	UB102	-6.777	-6.754	-0.023
50	105	-6.689	-6.684	-0.005
50	108	-6.794	-6.674	-0.120
50	107	-6.730	-6.701	-0.029
50	111	-6.852	-6.712	-0.140
50	113	-6.734	-6.525	-0.209
50	114	-6.837	-6.724	-0.113
50	115	-6.833	-6.739	-0.094
50	119	-6.851	-6.685	-0.166
50	118	-6.845	-6.712	-0.133
50	121	-6.777	-6.713	-0.064
50	124	-6.769	-6.649	-0.120
50	125	-6.743	-6.765	0.022
50	128	-6.659	-6.823	0.164
50	130	-6.782	-6.737	-0.045
50	131	-6.791	-6.690	-0.101
50	133	-6.911	-6.752	-0.159
50	134	-6.830	-6.683	-0.147
50	135	-6.805	-6.698	-0.107
50	137	-6.748	-6.776	0.028
50	298	-6.612	-6.701	0.089
50	299	-6.866	-6.728	-0.138
50	UB293	-6.819	-6.674	-0.145
50	UB294	-6.775	-6.642	-0.133
50	UB295	-6.845	-6.697	-0.148
50	UB296	-6.742	-6.686	-0.056
50	UB297	-6.723	-6.695	-0.028
50	Max	-6.606	-6.525	0.252
50	Average	-6.791	-6.714	-0.077
50	Min	-6.979	-7.091	-0.446
50	Std Dev	0.080	0.081	0.119



3300.0_IIH_D_PIN_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	25 uA	
Min Limit	-25 uA	

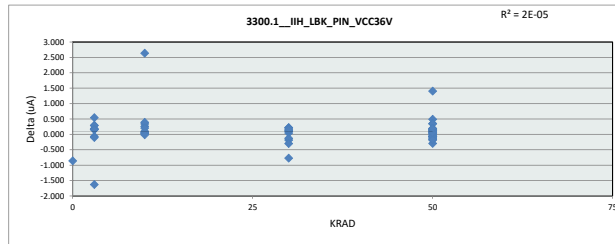
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-7.091	-6.815	-6.783	-6.818	-6.823
Average	-7.091	-6.715	-6.707	-6.714	-6.703
Max	-7.091	-6.533	-6.603	-6.598	-6.525
UL	25.000	25.000	25.000	25.000	25.000



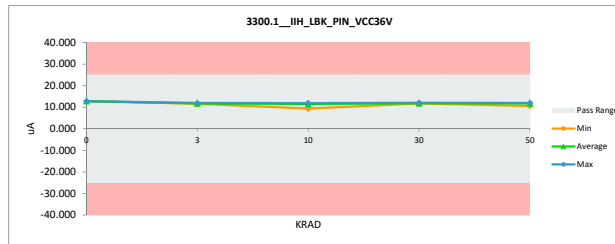
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3300.1_IH_LBK_PIN_VCC36V			
Test Site	Junkins		Junkins
Tester	ETS10		ETS10
Test Number	EF580302		EF580302
Unit	uA		uA
Max Limit	25		25
Min Limit	-25		-25

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	11.953	12.818	-0.865
3	1	11.867	11.937	-0.070
3	2	12.061	11.875	0.186
3	3	11.764	11.872	-0.108
3	6	10.146	11.777	-1.631
3	11	11.929	11.771	0.158
3	UB14	12.135	11.846	0.289
3	UB16	11.903	11.618	0.285
3	UB18	11.941	11.775	0.166
3	UB19	12.148	11.610	0.538
3	UB22	12.125	11.978	0.147
10	23	11.764	11.669	0.095
10	24	11.901	11.644	0.257
10	25	11.995	11.657	0.338
10	28	11.855	11.826	0.029
10	30	11.909	11.869	0.040
10	UB33	12.173	11.784	0.389
10	UB35	11.923	11.862	0.061
10	UB36	11.832	11.630	0.202
10	UB39	11.989	11.908	-0.019
10	UB40	12.001	9.368	2.633
30	43	11.785	11.743	0.042
30	44	11.990	11.894	0.096
30	48	11.732	11.918	-0.186
30	50	12.047	11.843	0.204
30	52	12.080	11.958	0.122
30	UB96	10.982	11.757	-0.775
30	UB98	11.695	11.827	-0.132
30	UB99	11.978	11.762	0.216
30	UB101	11.778	12.079	-0.301
30	UB102	11.939	11.773	0.166
50	105	11.888	11.956	-0.068
50	108	12.280	11.793	0.487
50	107	11.783	11.853	-0.070
50	111	11.809	11.993	-0.184
50	113	11.963	11.618	0.345
50	114	11.740	11.664	0.076
50	115	11.999	12.003	-0.004
50	119	12.049	11.710	0.339
50	118	12.022	10.620	1.402
50	121	11.687	11.817	-0.130
50	124	11.819	11.899	-0.080
50	125	11.724	12.021	-0.297
50	128	12.052	11.938	0.114
50	130	11.934	11.905	0.029
50	131	12.026	11.868	0.158
50	133	12.079	11.900	0.179
50	134	11.850	11.687	0.163
50	135	11.875	11.812	0.063
50	137	11.837	11.723	0.114
50	298	11.759	11.842	-0.083
50	299	11.838	11.913	-0.075
50	UB293	11.786	11.839	-0.053
50	UB294	11.957	11.827	0.130
50	UB295	11.854	12.025	-0.171
50	UB296	11.789	11.742	0.047
50	UB297	11.971	11.778	0.193
50	Max	12.280	12.818	2.633
50	Average	11.870	11.779	0.091
50	Min	10.146	9.368	-1.631
50	Std Dev	0.294	0.402	0.509



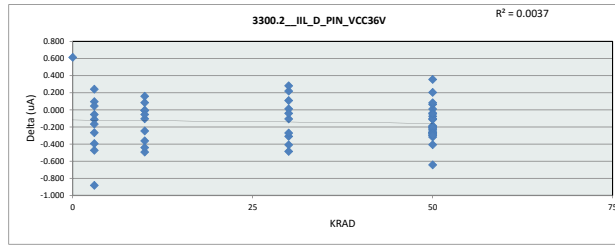
3300.1_IH_LBK_PIN_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	25 uA				
Min Limit	-25 uA				
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.818	11.610	9.368	11.743	10.620
Average	12.818	11.806	11.522	11.855	11.798
Max	12.818	11.978	11.908	12.079	12.025
UL	25.000	25.000	25.000	25.000	25.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

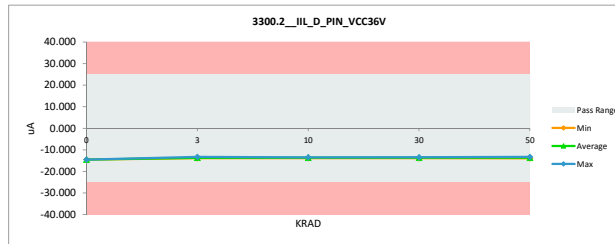
3300.2_IIL_D_PIN_VCC36V			
Test Site	Junkins		Junkins
Tester	ETS10		ETS10
Test Number	EF580302		EF580302
Unit	uA		uA
Max Limit	25		25
Min Limit	-25		-25

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-13.887	-14.500	0.613
3	1	-13.683	-13.778	0.095
3	2	-13.635	-13.522	-0.113
3	3	-13.738	-13.783	0.045
3	6	-14.178	-13.295	-0.883
3	11	-13.636	-13.878	0.242
3	UB14	-13.949	-13.475	-0.474
3	UB16	-13.832	-13.778	-0.054
3	UB18	-13.961	-13.794	-0.167
3	UB19	-14.027	-13.633	-0.394
3	UB22	-14.119	-13.851	-0.268
10	23	-13.738	-13.730	-0.008
10	24	-13.944	-13.450	-0.494
10	25	-13.934	-13.829	-0.105
10	28	-13.526	-13.610	0.084
10	30	-13.967	-13.720	-0.247
10	UB33	-13.741	-13.736	-0.005
10	UB35	-13.750	-13.696	-0.054
10	UB36	-13.887	-13.524	-0.363
10	UB39	-13.583	-13.742	0.159
10	UB40	-14.063	-13.621	-0.442
30	43	-13.883	-13.473	-0.410
30	44	-13.913	-13.602	-0.311
30	48	-13.665	-13.883	0.218
30	50	-13.915	-13.644	-0.271
30	52	-13.838	-13.731	-0.107
30	UB96	-13.811	-13.822	0.011
30	UB98	-13.444	-13.724	0.280
30	UB99	-13.916	-13.430	-0.486
30	UB101	-13.496	-13.605	0.109
30	UB102	-13.789	-13.747	-0.042
50	105	-13.611	-13.620	0.009
50	108	-13.824	-13.599	-0.225
50	107	-13.696	-13.658	-0.038
50	111	-13.945	-13.677	-0.268
50	113	-13.706	-13.298	-0.408
50	114	-13.909	-13.698	-0.211
50	115	-13.905	-13.718	-0.187
50	119	-13.944	-13.626	-0.318
50	118	-13.931	-13.673	-0.258
50	121	-13.793	-13.680	-0.113
50	124	-13.772	-13.536	-0.236
50	125	-13.724	-13.787	0.063
50	128	-13.547	-13.903	0.356
50	130	-13.802	-13.727	-0.075
50	131	-13.820	-13.624	-0.196
50	133	-14.409	-13.765	-0.644
50	134	-13.904	-13.608	-0.296
50	135	-13.850	-13.644	-0.206
50	137	-13.726	-13.808	0.082
50	298	-13.448	-13.651	0.203
50	299	-13.974	-13.709	-0.265
50	UB293	-13.876	-13.593	-0.283
50	UB294	-13.795	-13.521	-0.274
50	UB295	-13.928	-13.629	-0.299
50	UB296	-13.718	-13.615	-0.103
50	UB297	-13.676	-13.630	-0.046
50	Max	-13.444	-13.295	0.613
50	Average	-13.819	-13.677	-0.142
50	Min	-14.409	-14.500	-0.883
50	Std Dev	0.177	0.171	0.256



3300.2_IIL_D_PIN_VCC36V			
Test Site	Junkins		Junkins
Tester	ETS10		ETS10
Test Number	EF580302		EF580302
Unit	uA		uA
Max Limit	25		25
Min Limit	-25		-25

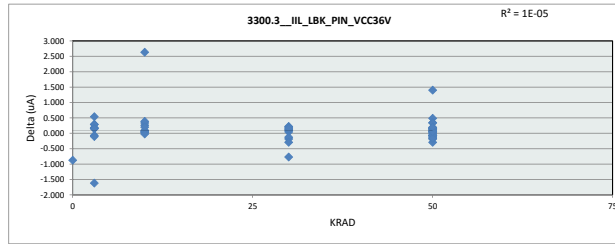
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-14.500	-13.878	-13.829	-13.883	-13.903
Average	-14.500	-13.679	-13.666	-13.666	-13.654
Max	-14.500	-13.295	-13.450	-13.430	-13.298
UL	25.000	25.000	25.000	25.000	25.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

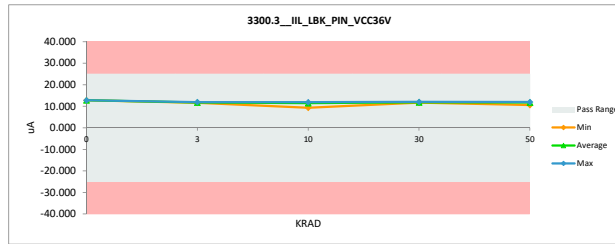
3300.3_IIL_LBK_PIN_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	uA	uA
Max Limit	25	
Min Limit	-25	

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	11.934	12.810	-0.876
3	1	11.848	11.919	-0.071
3	2	12.042	11.855	0.187
3	3	11.747	11.855	-0.108
3	6	10.135	11.753	-1.618
3	11	11.910	11.752	0.158
3	UB14	12.114	11.824	0.290
3	UB16	11.886	11.597	0.289
3	UB18	11.922	11.756	0.166
3	UB19	12.129	11.592	0.537
3	UB22	12.107	11.957	0.150
10	23	11.747	11.650	0.097
10	24	11.883	11.621	0.262
10	25	11.977	11.639	0.338
10	28	11.837	11.810	0.027
10	30	11.892	11.849	0.043
10	UB33	12.153	11.766	0.387
10	UB35	11.905	11.841	0.064
10	UB36	11.812	11.612	0.200
10	UB39	11.866	11.890	-0.024
10	UB40	11.982	9.349	2.633
30	43	11.767	11.721	0.046
30	44	11.970	11.872	0.098
30	48	11.714	11.896	-0.182
30	50	12.028	11.825	0.203
30	52	12.062	11.936	0.126
30	UB96	10.966	11.737	-0.771
30	UB98	11.680	11.808	-0.128
30	UB99	11.962	11.738	0.224
30	UB101	11.761	12.055	-0.294
30	UB102	11.919	11.752	0.167
50	105	11.864	11.936	-0.072
50	108	12.261	11.774	0.487
50	107	11.766	11.834	-0.068
50	111	11.791	11.973	-0.182
50	113	11.947	11.603	0.344
50	114	11.719	11.648	0.071
50	115	11.982	11.979	0.003
50	119	12.032	11.692	0.340
50	118	12.003	10.601	1.402
50	121	11.671	11.799	-0.128
50	124	11.802	11.877	-0.075
50	125	11.707	12.002	-0.295
50	128	12.033	11.920	0.113
50	130	11.918	11.885	0.033
50	131	12.008	11.845	0.163
50	133	12.060	11.883	0.177
50	134	11.836	11.667	0.169
50	135	11.857	11.793	0.064
50	137	11.818	11.705	0.113
50	298	11.742	11.822	-0.080
50	299	11.820	11.894	-0.074
50	UB293	11.766	11.819	-0.053
50	UB294	11.942	11.796	0.146
50	UB295	11.835	12.000	-0.165
50	UB296	11.070	11.721	0.651
50	UB297	11.951	11.757	0.194
50	Max	12.261	12.810	2.633
50	Average	11.852	11.759	0.093
50	Min	10.135	9.349	-1.618
50	Std Dev	0.293	0.402	0.509



3300.3_IIL_LBK_PIN_VCC36V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	uA	uA
Max Limit	25	
Min Limit	-25	

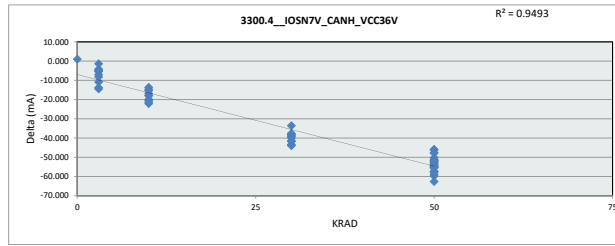
KRAD	0	3	10	30	50
LL	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.810	11.592	9.349	11.721	10.601
Average	12.810	11.786	11.503	11.834	11.778
Max	12.810	11.957	11.890	12.055	12.002
UL	25.000	25.000	25.000	25.000	25.000



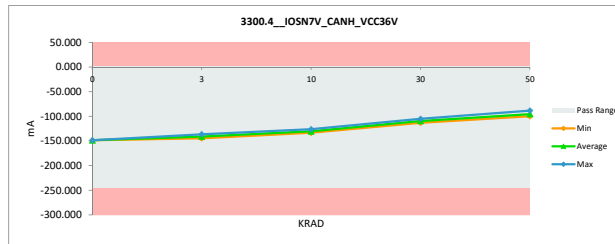
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3300.4_IOSN7V_CANH_VCC36			
Test Site	Junkins		Junkins
Tester	ETS10		ETS10
Test Number	EF580302		EF580302
Unit	mA		mA
Max Limit	0.9		0.9
Min Limit	-245		-245

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	-147.607	-148.580	0.973
3	1	-145.191	-141.012	-4.179
3	2	-147.649	-142.177	-5.472
3	3	-146.062	-144.647	-1.415
3	6	-150.861	-136.364	-14.497
3	11	-147.909	-140.820	-7.089
3	UB14	-147.441	-142.245	-5.196
3	UB16	-149.539	-138.612	-10.927
3	UB18	-148.720	-143.823	-4.897
3	UB19	-150.626	-136.808	-13.818
3	UB22	-150.387	-142.095	-8.292
10	23	-146.062	-126.199	-19.863
10	24	-149.170	-126.995	-22.175
10	25	-149.447	-129.005	-20.442
10	28	-147.227	-132.566	-14.661
10	30	-149.857	-131.844	-18.013
10	UB33	-148.996	-131.021	-17.975
10	UB35	-151.218	-129.892	-21.326
10	UB36	-148.717	-131.826	-16.891
10	UB39	-146.896	-133.222	-13.674
10	UB40	-147.271	-131.907	-15.364
30	43	-149.084	-105.086	-43.998
30	44	-150.904	-111.708	-39.196
30	48	-146.777	-113.164	-33.613
30	50	-151.284	-112.795	-38.489
30	52	-145.168	-106.934	-38.234
30	UB96	-147.503	-105.955	-41.548
30	UB98	-150.103	-112.455	-37.648
30	UB99	-151.708	-108.276	-43.432
30	UB101	-150.474	-110.433	-40.041
30	UB102	-149.706	-107.929	-41.777
50	105	-142.630	-96.480	-46.150
50	108	-150.932	-91.193	-59.739
50	107	-149.406	-97.150	-52.256
50	111	-148.728	-89.837	-58.891
50	113	-148.412	-96.913	-51.499
50	114	-148.752	-94.057	-54.695
50	115	-151.217	-93.597	-57.620
50	119	-147.724	-92.652	-55.072
50	118	-150.883	-95.621	-55.262
50	121	-148.161	-94.966	-53.195
50	124	-149.458	-95.680	-53.778
50	125	-146.751	-99.094	-47.657
50	128	-149.068	-94.616	-54.452
50	130	-151.228	-96.631	-54.597
50	131	-150.250	-98.687	-51.563
50	133	-151.105	-98.758	-52.347
50	134	-151.280	-93.875	-57.405
50	135	-149.448	-92.027	-57.421
50	137	-149.071	-93.490	-55.581
50	298	-145.204	-99.299	-45.905
50	299	-147.459	-99.625	-47.834
50	UB293	-149.362	-99.094	-50.268
50	UB294	-151.104	-88.492	-62.612
50	UB295	-148.762	-97.520	-51.242
50	UB296	-150.637	-97.687	-52.950
50	UB297	-149.364	-97.384	-51.980
50	Max	-142.630	-88.492	0.973
50	Average	-148.876	-112.997	-35.880
50	Min	-151.708	-148.580	-62.612
50	Std Dev	1.921	19.153	19.620

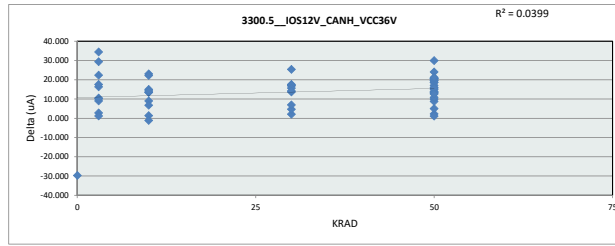


3300.4_IOSN7V_CANH_VCC36					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Unit	mA				
Max Limit	0.9				
Min Limit	-245				
KRAD	0	3	10	30	50
LL	-245.000	-245.000	-245.000	-245.000	-245.000
Min	-148.580	-144.647	-133.222	-113.164	-99.625
Average	-148.580	-140.860	-130.448	-109.474	-95.555
Max	-148.580	-136.364	-126.199	-105.086	-88.492
UL	0.900	0.900	0.900	0.900	0.900

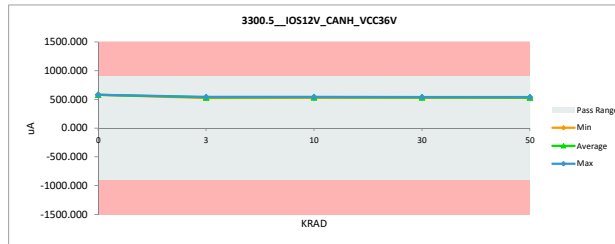


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3300.5_IOS12V_CANH_VCC36V				
Test Site	Junkins		Junkins	
Tester	ETS10		ETS10	
Test Number	EF580302		EF580302	
Unit	uA		uA	
Max Limit	900		900	
Min Limit	-900		-900	
KRAD	Serial #	PRE_RAD	POST_ANNEAL	Delta
0	C1	551.299	581.034	-29.735
3	1	542.516	539.727	2.789
3	2	546.408	535.920	10.488
3	3	543.856	542.648	1.208
3	6	558.956	524.519	34.437
3	11	544.781	535.793	8.988
3	UB14	551.127	534.787	16.340
3	UB16	554.433	532.014	22.419
3	UB18	552.057	541.987	10.070
3	UB19	557.653	528.236	29.417
3	UB22	557.166	539.596	17.570
10	23	543.856	530.472	13.384
10	24	550.689	527.592	23.097
10	25	555.941	533.704	22.237
10	28	541.582	540.194	1.388
10	30	551.226	542.213	9.013
10	UB33	552.176	538.627	13.549
10	UB35	551.398	536.412	14.986
10	UB36	549.718	535.501	14.217
10	UB39	542.082	543.202	-1.120
10	UB40	548.038	541.245	6.793
30	43	544.798	528.006	16.792
30	44	554.880	537.294	17.586
30	48	542.885	540.732	2.153
30	50	556.187	539.021	17.166
30	52	547.969	534.312	13.657
30	UB96	551.455	535.825	15.630
30	UB98	544.810	540.100	4.710
30	UB99	555.097	529.688	25.409
30	UB101	546.736	539.784	6.952
30	UB102	548.305	534.094	14.211
50	105	540.275	537.998	2.277
50	108	555.875	525.944	29.931
50	107	545.793	532.135	13.658
50	111	546.379	531.422	14.957
50	113	547.121	528.572	18.549
50	114	547.412	527.576	19.836
50	115	552.340	532.406	19.934
50	119	553.085	529.044	24.041
50	118	556.248	535.506	20.742
50	121	541.893	531.988	9.905
50	124	547.248	533.665	13.583
50	125	542.856	537.855	5.001
50	128	548.780	535.112	13.668
50	130	552.147	533.382	18.765
50	131	554.536	534.968	19.568
50	133	556.117	539.019	17.098
50	134	552.360	531.656	20.704
50	135	551.139	530.413	20.726
50	137	546.576	530.544	16.032
50	298	538.657	537.498	1.159
50	299	547.366	538.605	8.761
50	UB293	548.374	535.329	13.045
50	UB294	551.512	530.304	21.208
50	UB295	551.135	540.268	10.867
50	UB296	549.820	534.115	15.705
50	UB297	549.407	536.855	12.552
50	Max	558.956	581.034	34.437
50	Average	549.378	535.727	13.650
50	Min	538.657	524.519	-29.735
50	Std Dev	4.889	7.653	9.630



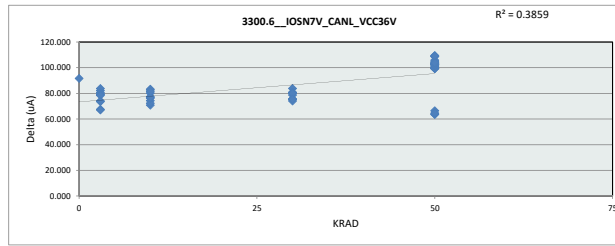
3300.5_IOS12V_CANH_VCC36V					
Test Site	Junkins		Junkins		
Tester	ETS10		ETS10		
Test Number	EF580302		EF580302		
Max Limit	900		uA		
Min Limit	-900		uA		
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	581.034	524.519	527.592	528.006	525.944
Average	581.034	535.523	536.916	535.886	533.545
Max	581.034	542.648	543.202	540.732	540.268
UL	900.000	900.000	900.000	900.000	900.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

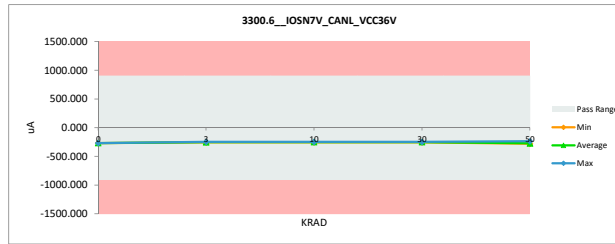
3300.6_IOSN7V_CANL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-176.123	-267.732	91.609
3	1	-172.592	-254.674	82.082
3	2	-175.261	-254.674	79.413
3	3	-172.346	-256.070	83.724
3	6	-179.817	-247.405	67.588
3	11	-172.839	-253.319	80.480
3	UB14	-173.988	-253.278	79.290
3	UB16	-176.246	-250.239	73.993
3	UB18	-176.287	-254.674	78.387
3	UB19	-179.489	-246.543	67.054
3	UB22	-177.723	-251.224	73.501
10	23	-172.346	-246.666	74.320
10	24	-175.055	-245.804	70.749
10	25	-177.190	-249.418	72.228
10	28	-169.267	-251.922	82.655
10	30	-173.619	-253.811	80.192
10	UB33	-174.522	-251.881	77.359
10	UB35	-174.686	-250.896	76.210
10	UB36	-172.757	-249.459	76.702
10	UB39	-170.868	-254.099	83.231
10	UB40	-172.223	-253.524	81.301
30	43	-170.786	-246.338	75.552
30	44	-175.261	-250.732	75.471
30	48	-170.212	-253.935	83.723
30	50	-174.481	-255.167	80.686
30	52	-171.197	-251.840	80.643
30	UB96	-172.880	-251.553	78.673
30	UB98	-171.525	-252.046	80.521
30	UB99	-174.399	-248.473	74.074
30	UB101	-171.279	-251.183	79.904
30	UB102	-173.249	-248.596	75.347
50	105	-171.033	-279.934	108.901
50	108	-176.738	-276.200	99.462
50	107	-173.126	-276.118	102.992
50	111	-172.264	-274.927	102.663
50	113	-173.249	-277.061	103.812
50	114	-172.962	-276.282	103.320
50	115	-174.563	-277.308	102.745
50	119	-174.973	-274.312	99.339
50	118	-176.861	-276.323	99.462
50	121	-172.592	-277.472	104.880
50	124	-173.290	-275.748	102.458
50	125	-170.868	-280.344	109.476
50	128	-172.428	-278.210	105.782
50	130	-175.178	-276.692	101.514
50	131	-176.574	-276.528	99.954
50	133	-176.615	-276.815	100.200
50	134	-174.727	-274.025	99.298
50	135	-173.742	-274.968	101.226
50	137	-170.622	-273.204	102.582
50	298	-169.021	-277.759	108.738
50	299	-170.458	-279.524	109.066
50	UB293	-171.115	-274.968	103.853
50	UB294	-172.798	-236.564	63.766
50	UB295	-173.660	-240.137	66.477
50	UB296	-172.633	-236.236	63.603
50	UB297	-172.346	-236.924	64.588
50	Max	-169.021	-236.236	109.476
50	Average	-173.596	-260.382	86.786
50	Min	-179.817	-280.344	63.603
50	Std Dev	2.380	13.835	14.245



3300.6_IOSN7V_CANL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	900

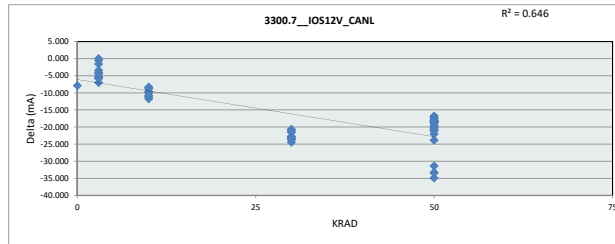
KRAD	0	3	10	30	50
LL	-900.000	-900.000	-900.000	-900.000	-900.000
Min	-267.732	-256.070	-254.099	-255.167	-280.344
Average	-267.732	-252.210	-250.748	-250.936	-270.561
Max	-267.732	-246.543	-245.804	-246.338	-236.236
UL	900.000	900.000	900.000	900.000	900.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

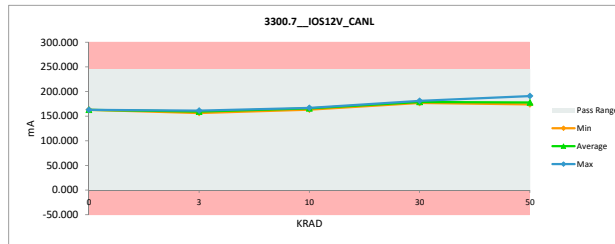
3300.7_IOS12V_CANL		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	245	
Min Limit	-0.9	

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	154.933	162.806	-7.873
3	1	154.458	159.971	-5.513
3	2	154.753	160.034	-5.281
3	3	154.301	161.301	-7.000
3	6	156.689	157.240	-0.551
3	11	155.503	159.572	-4.069
3	UB14	155.344	161.136	-5.792
3	UB16	156.000	157.587	-1.587
3	UB18	155.640	160.084	-4.444
3	UB19	156.546	156.526	0.020
3	UB22	156.651	160.068	-3.417
10	23	154.301	163.137	-8.836
10	24	155.259	165.066	-9.807
10	25	156.657	164.962	-8.305
10	28	155.107	166.039	-10.932
10	30	156.519	166.496	-9.977
10	UB33	155.994	165.758	-9.764
10	UB35	157.296	165.744	-8.448
10	UB36	155.698	166.850	-11.152
10	UB39	155.179	166.891	-11.712
10	UB40	156.078	166.936	-10.858
30	43	155.609	176.779	-21.170
30	44	157.149	177.847	-20.698
30	48	155.762	178.467	-22.705
30	50	157.309	178.006	-20.697
30	52	153.697	176.711	-23.014
30	UB96	157.255	178.780	-21.525
30	UB98	156.655	181.112	-24.457
30	UB99	156.732	180.399	-23.667
30	UB101	156.970	180.288	-23.318
30	UB102	155.854	179.465	-23.611
50	105	153.255	177.076	-23.821
50	108	157.454	174.252	-16.798
50	107	157.268	174.791	-17.523
50	111	156.047	174.743	-18.696
50	113	156.745	175.414	-18.669
50	114	155.545	173.889	-18.344
50	115	156.743	175.319	-18.576
50	119	157.104	174.215	-17.111
50	118	157.175	175.756	-18.581
50	121	154.691	175.469	-20.778
50	124	157.320	177.174	-19.854
50	125	154.508	176.589	-22.081
50	128	156.251	177.026	-20.775
50	130	156.942	175.270	-18.328
50	131	157.703	175.729	-18.026
50	133	157.371	175.589	-18.218
50	134	156.719	176.669	-19.950
50	135	157.151	175.096	-17.945
50	137	157.508	175.816	-18.308
50	298	155.146	175.435	-20.289
50	299	154.816	175.957	-21.141
50	UB293	157.164	176.590	-19.426
50	UB294	156.261	187.635	-31.374
50	UB295	155.820	190.676	-34.856
50	UB296	156.854	190.144	-33.290
50	UB297	157.480	190.847	-33.367
50	Max	157.703	190.847	0.020
50	Average	156.122	172.372	-16.251
50	Min	153.255	156.526	-34.856
50	Std Dev	1.084	8.626	8.352



3300.7_IOS12V_CANL		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	245 mA	
Min Limit	-0.9 mA	

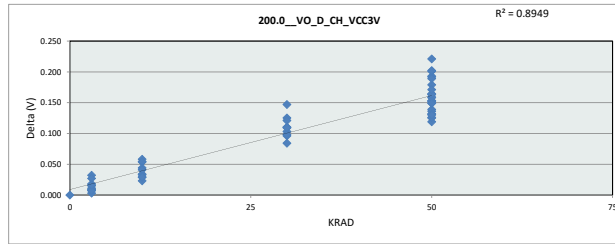
KRAD	0	3	10	30	50
LL	-0.900	-0.900	-0.900	-0.900	-0.900
Min	162.806	156.526	163.137	176.711	173.889
Average	162.806	159.352	165.788	178.785	177.814
Max	162.806	161.301	166.936	181.112	190.847
UL	245.000	245.000	245.000	245.000	245.000



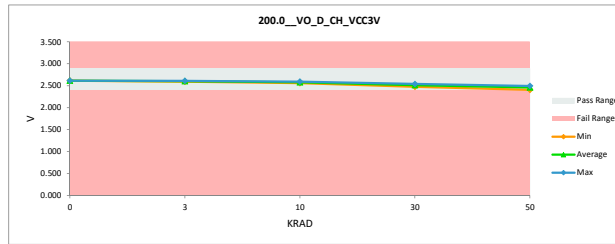
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

200.0_VO_D_CH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.89	2.89
Min Limit	2.47	2.4

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	2.614	2.614	0.000
3	1	2.611	2.602	0.009
3	2	2.615	2.604	0.011
3	3	2.612	2.609	0.003
3	6	2.622	2.590	0.032
3	11	2.617	2.602	0.015
3	UB14	2.615	2.607	0.008
3	UB16	2.620	2.602	0.018
3	UB18	2.618	2.611	0.007
3	UB19	2.622	2.595	0.027
3	UB22	2.622	2.606	0.016
10	23	2.612	2.558	0.054
10	24	2.619	2.561	0.058
10	25	2.621	2.567	0.054
10	28	2.615	2.581	0.034
10	30	2.623	2.579	0.044
10	UB33	2.619	2.586	0.033
10	UB35	2.624	2.583	0.041
10	UB36	2.619	2.590	0.029
10	UB39	2.615	2.592	0.023
10	UB40	2.618	2.589	0.029
30	43	2.621	2.474	0.147
30	44	2.624	2.514	0.110
30	48	2.616	2.520	0.096
30	50	2.626	2.523	0.103
30	52	2.617	2.492	0.125
30	UB96	2.621	2.500	0.121
30	UB98	2.624	2.540	0.084
30	UB99	2.627	2.517	0.110
30	UB101	2.625	2.527	0.098
30	UB102	2.622	2.513	0.109
50	105	2.607	2.475	0.132
50	108	2.625	2.404	0.221
50	107	2.624	2.465	0.159
50	111	2.623	2.422	0.201
50	113	2.622	2.473	0.149
50	114	2.621	2.428	0.193
50	115	2.626	2.434	0.192
50	119	2.621	2.419	0.202
50	118	2.626	2.473	0.153
50	121	2.619	2.455	0.164
50	124	2.623	2.459	0.164
50	125	2.617	2.492	0.125
50	128	2.621	2.463	0.158
50	130	2.627	2.464	0.163
50	131	2.624	2.488	0.136
50	133	2.625	2.486	0.139
50	134	2.627	2.448	0.179
50	135	2.623	2.434	0.189
50	137	2.620	2.449	0.171
50	298	2.614	2.495	0.119
50	299	2.617	2.491	0.126
50	UB293	2.623	2.492	0.131
50	UB294	2.625	2.495	0.130
50	UB295	2.619	2.466	0.153
50	UB296	2.624	2.472	0.152
50	UB297	2.622	2.473	0.149
50	Max	2.627	2.614	0.221
50	Average	2.620	2.519	0.102
50	Min	2.607	2.404	0.000
50	Std Dev	0.004	0.063	0.065



200.0_VO_D_CH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.89	V			
Min Limit	2.4	V			
KRAD	0	3	10	30	50
LL	2.400	2.400	2.400	2.400	2.400
Min	2.614	2.590	2.558	2.474	2.404
Average	2.614	2.603	2.579	2.512	2.462
Max	2.614	2.611	2.592	2.540	2.495
UL	2.890	2.890	2.890	2.890	2.890

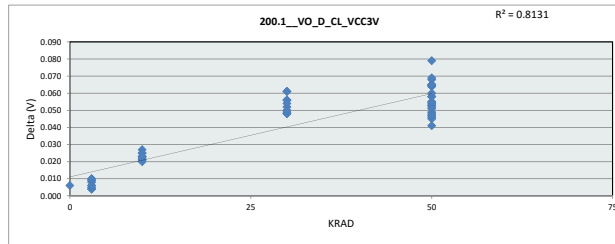


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

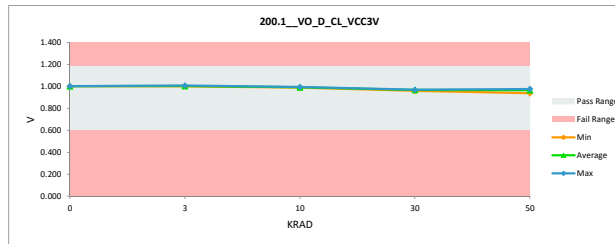
200.1_VO_D_CL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	1.18	1.18
Min Limit	0.6	0.6

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	1.008	1.002	0.006
3	1	1.008	1.004	0.004
3	2	1.009	1.005	0.004
3	3	1.011	1.001	0.010
3	6	1.010	1.001	0.009
3	11	1.009	1.000	0.009
3	UB14	1.010	1.002	0.008
3	UB16	1.012	1.007	0.005
3	UB18	1.014	1.004	0.010
3	UB19	1.011	1.005	0.006
3	UB22	1.010	1.004	0.006
10	23	1.011	0.988	0.023
10	24	1.015	0.988	0.027
10	25	1.012	0.991	0.021
10	28	1.012	0.991	0.021
10	30	1.015	0.990	0.025
10	UB33	1.017	0.994	0.023
10	UB35	1.014	0.994	0.020
10	UB36	1.015	0.993	0.022
10	UB39	1.017	0.992	0.025
10	UB40	1.015	0.992	0.023
30	43	1.020	0.959	0.061
30	44	1.018	0.970	0.048
30	48	1.019	0.970	0.049
30	50	1.022	0.970	0.052
30	52	1.023	0.962	0.061
30	UB96	1.019	0.963	0.056
30	UB98	1.018	0.970	0.048
30	UB99	1.022	0.966	0.056
30	UB101	1.019	0.969	0.050
30	UB102	1.021	0.967	0.054
50	105	1.024	0.972	0.052
50	108	1.022	0.958	0.064
50	107	1.025	0.972	0.053
50	111	1.027	0.962	0.065
50	113	1.026	0.972	0.054
50	114	1.028	0.963	0.065
50	115	1.027	0.963	0.064
50	119	1.029	0.964	0.065
50	118	1.026	0.973	0.053
50	121	1.020	0.971	0.049
50	124	1.022	0.967	0.055
50	125	1.025	0.974	0.051
50	128	1.023	0.965	0.058
50	130	1.025	0.970	0.055
50	131	1.021	0.975	0.046
50	133	1.021	0.974	0.047
50	134	1.023	0.965	0.058
50	135	1.023	0.963	0.060
50	137	1.013	0.965	0.048
50	298	1.017	0.976	0.041
50	299	1.020	0.975	0.045
50	UB293	1.021	0.974	0.047
50	UB294	1.016	0.937	0.079
50	UB295	1.018	0.960	0.068
50	UB296	1.016	0.951	0.065
50	UB297	1.020	0.951	0.069
50	Max	1.029	1.007	0.079
50	Average	1.018	0.977	0.041
50	Min	1.008	0.937	0.004
50	Std Dev	0.006	0.017	0.022



200.1_VO_D_CL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	1.18	V
Min Limit	0.6	V

KRAD	0	3	10	30	50
LL	0.600	0.600	0.600	0.600	0.600
Min	1.002	1.000	0.988	0.959	0.937
Average	1.002	1.003	0.991	0.967	0.965
Max	1.002	1.007	0.994	0.970	0.976
UL	1.180	1.180	1.180	1.180	1.180

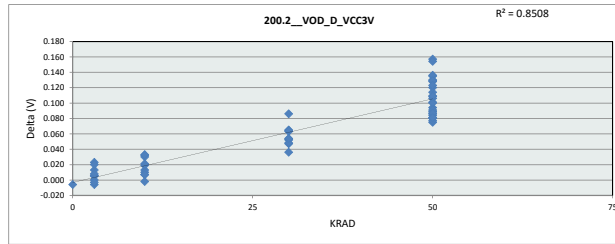


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

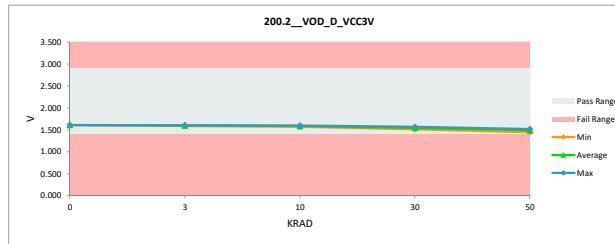
200.2_VOD_D_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.89	2.89
Min Limit	1.475	1.4

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	1.606	1.612	-0.006
3	1	1.603	1.598	0.005
3	2	1.605	1.599	0.006
3	3	1.602	1.608	-0.006
3	6	1.612	1.589	0.023
3	11	1.608	1.602	0.006
3	UB14	1.605	1.605	0.000
3	UB16	1.608	1.595	0.013
3	UB18	1.604	1.607	-0.003
3	UB19	1.611	1.591	0.020
3	UB22	1.611	1.603	0.008
10	23	1.602	1.570	0.032
10	24	1.604	1.574	0.030
10	25	1.609	1.576	0.033
10	28	1.603	1.590	0.013
10	30	1.608	1.589	0.019
10	UB33	1.602	1.592	0.010
10	UB35	1.610	1.589	0.021
10	UB36	1.604	1.597	0.007
10	UB39	1.598	1.600	-0.002
10	UB40	1.604	1.597	0.007
30	43	1.600	1.514	0.086
30	44	1.607	1.544	0.063
30	48	1.597	1.550	0.047
30	50	1.604	1.552	0.052
30	52	1.594	1.529	0.065
30	UB96	1.601	1.537	0.064
30	UB98	1.606	1.570	0.036
30	UB99	1.604	1.551	0.053
30	UB101	1.606	1.558	0.048
30	UB102	1.600	1.546	0.054
50	105	1.583	1.503	0.080
50	108	1.603	1.446	0.157
50	107	1.599	1.493	0.106
50	111	1.596	1.461	0.135
50	113	1.596	1.502	0.094
50	114	1.593	1.465	0.128
50	115	1.600	1.470	0.130
50	119	1.592	1.456	0.136
50	118	1.600	1.499	0.101
50	121	1.599	1.485	0.114
50	124	1.601	1.492	0.109
50	125	1.593	1.518	0.075
50	128	1.598	1.498	0.100
50	130	1.602	1.493	0.109
50	131	1.603	1.514	0.089
50	133	1.604	1.513	0.091
50	134	1.603	1.483	0.120
50	135	1.600	1.471	0.129
50	137	1.607	1.484	0.123
50	298	1.597	1.520	0.077
50	299	1.597	1.516	0.081
50	UB293	1.602	1.518	0.084
50	UB294	1.609	1.455	0.154
50	UB295	1.602	1.516	0.086
50	UB296	1.608	1.521	0.087
50	UB297	1.602	1.521	0.081
50	Max	1.612	1.612	0.157
50	Average	1.602	1.539	0.063
50	Min	1.583	1.446	-0.006
50	Std Dev	0.005	0.050	0.047



200.2_VOD_D_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	2.89	V
Min Limit	1.4	V

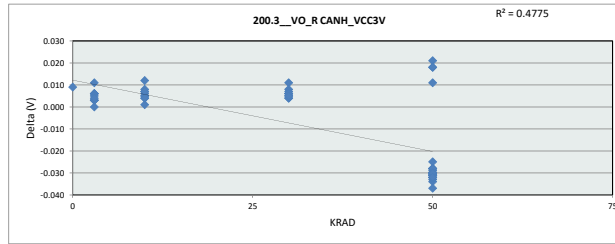
KRAD	0	3	10	30	50
LL	1.400	1.400	1.400	1.400	1.400
Min	1.612	1.589	1.570	1.514	1.446
Average	1.612	1.608	1.587	1.545	1.493
Max	1.612	1.608	1.600	1.570	1.521
UL	2.890	2.890	2.890	2.890	2.890



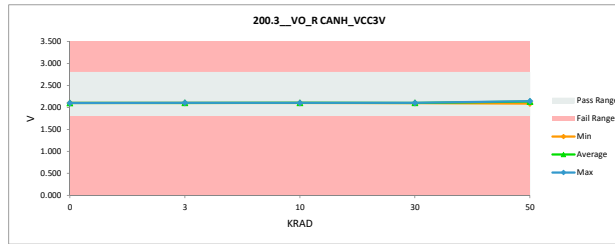
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

200.3_VO_R_CANH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.8	1.8

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	2.111	2.102	0.009
3	1	2.109	2.106	0.003
3	2	2.107	2.104	0.003
3	3	2.111	2.105	0.006
3	6	2.108	2.108	0.000
3	11	2.114	2.103	0.011
3	UB14	2.110	2.104	0.006
3	UB16	2.110	2.104	0.006
3	UB18	2.107	2.104	0.003
3	UB19	2.110	2.105	0.005
3	UB22	2.108	2.104	0.004
10	23	2.111	2.105	0.006
10	24	2.110	2.106	0.004
10	25	2.108	2.107	0.001
10	28	2.111	2.106	0.005
10	30	2.112	2.107	0.005
10	UB33	2.110	2.103	0.007
10	UB35	2.114	2.106	0.008
10	UB36	2.111	2.104	0.007
10	UB39	2.108	2.104	0.004
10	UB40	2.116	2.104	0.012
30	43	2.108	2.104	0.004
30	44	2.112	2.101	0.011
30	48	2.113	2.105	0.008
30	50	2.111	2.104	0.007
30	52	2.111	2.105	0.006
30	UB96	2.113	2.107	0.006
30	UB98	2.109	2.104	0.005
30	UB99	2.111	2.105	0.006
30	UB101	2.109	2.105	0.004
30	UB102	2.110	2.105	0.005
50	105	2.110	2.141	-0.031
50	108	2.110	2.144	-0.034
50	107	2.110	2.138	-0.028
50	111	2.109	2.142	-0.033
50	113	2.114	2.139	-0.025
50	114	2.112	2.141	-0.029
50	115	2.112	2.143	-0.031
50	119	2.112	2.144	-0.032
50	118	2.113	2.143	-0.030
50	121	2.112	2.142	-0.030
50	124	2.105	2.142	-0.037
50	125	2.110	2.140	-0.030
50	128	2.111	2.143	-0.032
50	130	2.111	2.141	-0.030
50	131	2.113	2.141	-0.028
50	133	2.113	2.141	-0.028
50	134	2.112	2.143	-0.031
50	135	2.113	2.141	-0.028
50	137	2.111	2.142	-0.031
50	298	2.112	2.143	-0.031
50	299	2.112	2.142	-0.030
50	UB293	2.112	2.144	-0.032
50	UB294	2.111	2.090	0.021
50	UB295	2.111	2.093	0.018
50	UB296	2.109	2.098	0.011
50	UB297	2.112	2.094	0.018
50	Max	2.116	2.144	0.021
50	Average	2.111	2.118	-0.007
50	Min	2.105	2.090	-0.037
50	Std Dev	0.002	0.019	0.019



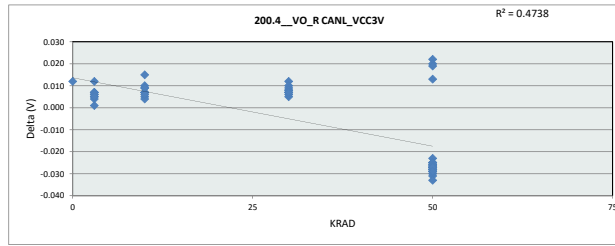
200.3_VO_R_CANH_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.102	2.103	2.103	2.101	2.090
Average	2.102	2.105	2.105	2.105	2.134
Max	2.102	2.108	2.107	2.107	2.144
UL	2.800	2.800	2.800	2.800	2.800



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

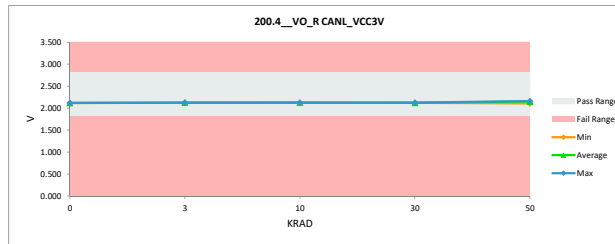
200.4_VO_R_CANL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.8	1.8

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	2.131	2.119	0.012
3	1	2.129	2.124	0.005
3	2	2.128	2.122	0.006
3	3	2.131	2.124	0.007
3	6	2.128	2.127	0.001
3	11	2.134	2.122	0.012
3	UB14	2.130	2.123	0.007
3	UB16	2.130	2.123	0.007
3	UB18	2.127	2.123	0.004
3	UB19	2.130	2.124	0.006
3	UB22	2.128	2.123	0.005
10	23	2.131	2.124	0.007
10	24	2.130	2.125	0.005
10	25	2.129	2.125	0.004
10	28	2.132	2.125	0.007
10	30	2.132	2.125	0.007
10	UB33	2.131	2.122	0.009
10	UB35	2.134	2.124	0.010
10	UB36	2.132	2.123	0.009
10	UB39	2.128	2.122	0.006
10	UB40	2.137	2.122	0.015
30	43	2.128	2.123	0.005
30	44	2.132	2.120	0.012
30	48	2.133	2.123	0.010
30	50	2.131	2.122	0.009
30	52	2.132	2.124	0.008
30	UB96	2.133	2.125	0.008
30	UB98	2.129	2.122	0.007
30	UB99	2.131	2.124	0.007
30	UB101	2.129	2.123	0.006
30	UB102	2.131	2.124	0.007
50	105	2.131	2.158	-0.027
50	108	2.130	2.161	-0.031
50	107	2.131	2.156	-0.025
50	111	2.130	2.159	-0.029
50	113	2.134	2.157	-0.023
50	114	2.132	2.158	-0.026
50	115	2.132	2.160	-0.028
50	119	2.132	2.162	-0.030
50	118	2.133	2.160	-0.027
50	121	2.132	2.160	-0.028
50	124	2.126	2.159	-0.033
50	125	2.131	2.157	-0.026
50	128	2.131	2.160	-0.029
50	130	2.131	2.159	-0.028
50	131	2.133	2.158	-0.025
50	133	2.134	2.159	-0.025
50	134	2.132	2.160	-0.028
50	135	2.133	2.159	-0.026
50	137	2.132	2.159	-0.027
50	298	2.132	2.160	-0.028
50	299	2.132	2.159	-0.027
50	UB293	2.132	2.161	-0.029
50	UB294	2.131	2.109	0.022
50	UB295	2.131	2.111	0.020
50	UB296	2.130	2.117	0.013
50	UB297	2.132	2.113	0.019
50	Max	2.137	2.162	0.022
50	Average	2.131	2.136	-0.005
50	Min	2.126	2.109	-0.033
50	Std Dev	0.002	0.018	0.018



200.4_VO_R_CANL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	2.8	V
Min Limit	1.8	V

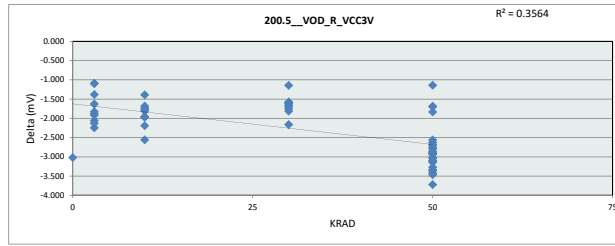
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.119	2.122	2.122	2.120	2.109
Average	2.119	2.124	2.124	2.123	2.152
Max	2.119	2.127	2.125	2.125	2.162
UL	2.800	2.800	2.800	2.800	2.800



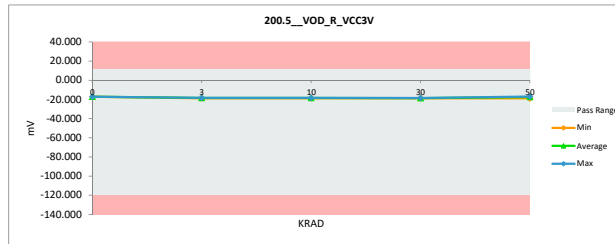
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

200.5_VOD_R_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	10.92	10.92
Min Limit	-119	-119

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-20.181	-17.160	-3.021
3	1	-20.556	-18.310	-2.246
3	2	-20.376	-18.550	-1.826
3	3	-20.356	-18.296	-2.060
3	6	-19.949	-18.853	-1.096
3	11	-20.429	-18.548	-1.881
3	UB14	-20.372	-18.453	-1.919
3	UB16	-19.964	-18.583	-1.381
3	UB18	-20.422	-18.292	-2.130
3	UB19	-19.900	-18.805	-1.095
3	UB22	-20.000	-18.371	-1.629
10	23	-20.356	-18.622	-1.734
10	24	-20.162	-18.771	-1.391
10	25	-20.198	-18.517	-1.681
10	28	-20.571	-18.376	-2.195
10	30	-20.051	-18.240	-1.811
10	UB33	-20.384	-18.417	-1.967
10	UB35	-20.212	-18.436	-1.776
10	UB36	-20.315	-18.350	-1.965
10	UB39	-20.802	-18.243	-2.559
10	UB40	-20.317	-18.351	-1.966
30	43	-20.458	-18.708	-1.750
30	44	-20.137	-18.546	-1.591
30	48	-20.585	-18.419	-2.166
30	50	-20.052	-18.475	-1.577
30	52	-20.242	-18.643	-1.599
30	UB96	-20.181	-18.515	-1.666
30	UB98	-20.225	-18.600	-1.625
30	UB99	-19.940	-18.793	-1.147
30	UB101	-20.309	-18.493	-1.816
30	UB102	-20.388	-18.699	-1.689
50	105	-20.864	-17.142	-3.722
50	108	-20.096	-17.468	-2.628
50	107	-20.345	-17.411	-2.934
50	111	-20.426	-17.314	-3.112
50	113	-20.168	-17.605	-2.563
50	114	-20.391	-17.470	-2.921
50	115	-20.135	-17.112	-3.023
50	119	-20.081	-17.389	-2.692
50	118	-19.953	-17.086	-2.867
50	121	-20.426	-17.284	-3.142
50	124	-20.432	-17.067	-3.365
50	125	-20.420	-17.149	-3.271
50	128	-20.383	-17.288	-3.095
50	130	-19.991	-17.197	-2.794
50	131	-20.028	-16.997	-3.031
50	133	-20.012	-17.100	-2.912
50	134	-19.981	-17.224	-2.757
50	135	-20.106	-17.411	-2.695
50	137	-20.339	-17.456	-2.883
50	298	-20.536	-17.072	-3.464
50	299	-20.364	-16.937	-3.427
50	UB293	-20.439	-17.098	-3.341
50	UB294	-20.017	-18.875	-1.142
50	UB295	-20.209	-18.514	-1.695
50	UB296	-20.317	-18.628	-1.689
50	UB297	-20.426	-18.590	-1.836
50	Max	-19.900	-16.937	-1.095
50	Average	-20.268	-18.006	-2.262
50	Min	-20.864	-18.875	-3.722
50	Std Dev	0.214	0.662	0.711



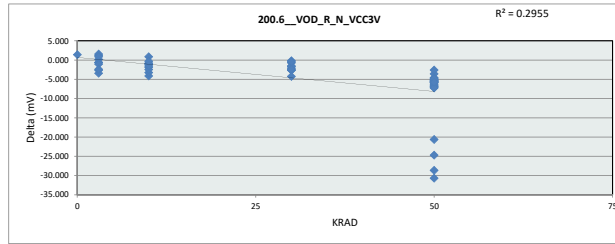
200.5_VOD_R_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	10.92 mV				
Min Limit	-119 mV				
KRAD	0	3	10	30	50
LL	-119.000	-119.000	-119.000	-119.000	-119.000
Min	-17.160	-18.853	-18.771	-18.793	-18.875
Average	-17.160	-18.506	-18.432	-18.589	-17.457
Max	-17.160	-18.292	-18.240	-18.419	-16.937
UL	10.920	10.920	10.920	10.920	10.920



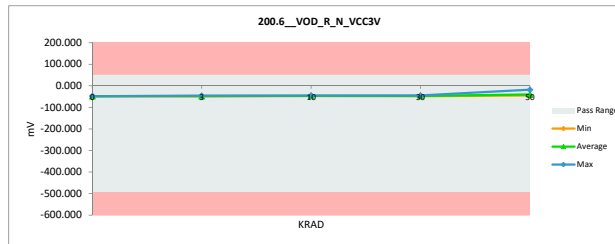
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

200.6_VOD_R_N_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	49	49
Min Limit	-490	-490

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-46.860	-48.246	1.386
3	1	-48.244	-48.418	0.174
3	2	-49.475	-46.843	-2.632
3	3	-47.498	-48.741	1.243
3	6	-48.902	-45.469	-3.433
3	11	-48.631	-47.933	-0.698
3	UB14	-46.542	-48.102	1.560
3	UB16	-48.639	-48.030	-0.609
3	UB18	-46.571	-47.436	0.865
3	UB19	-48.302	-47.231	-1.071
3	UB22	-50.156	-47.786	-2.370
10	23	-47.498	-46.329	-1.169
10	24	-45.107	-45.978	0.871
10	25	-49.517	-45.404	-4.113
10	28	-47.709	-46.923	-0.786
10	30	-48.250	-44.984	-3.266
10	UB33	-46.954	-45.085	-1.869
10	UB35	-48.465	-45.979	-2.486
10	UB36	-47.714	-46.773	-0.941
10	UB39	-48.795	-47.231	-1.564
10	UB40	-46.740	-46.451	-0.289
30	43	-48.636	-46.535	-2.101
30	44	-48.877	-48.168	-0.709
30	48	-47.024	-46.833	-0.191
30	50	-48.107	-46.544	-1.563
30	52	-48.378	-46.756	-1.622
30	UB96	-47.416	-44.763	-2.653
30	UB98	-49.033	-46.396	-2.637
30	UB99	-48.666	-46.274	-2.392
30	UB101	-48.990	-44.744	-4.246
30	UB102	-48.528	-48.064	-0.464
50	105	-47.612	-42.406	-5.206
50	108	-49.192	-43.240	-5.952
50	107	-48.699	-43.383	-5.316
50	111	-48.522	-42.750	-5.772
50	113	-48.163	-44.562	-3.601
50	114	-50.452	-43.805	-6.647
50	115	-47.483	-41.150	-6.333
50	119	-49.899	-43.122	-6.777
50	118	-46.617	-41.493	-5.124
50	121	-48.738	-43.128	-5.610
50	124	-50.226	-43.402	-6.824
50	125	-49.548	-42.442	-7.106
50	128	-48.534	-43.369	-5.165
50	130	-48.535	-42.721	-5.814
50	131	-48.809	-43.289	-5.520
50	133	-48.356	-43.632	-4.724
50	134	-48.574	-42.969	-5.605
50	135	-46.466	-43.880	-2.586
50	137	-48.761	-44.169	-4.592
50	298	-48.024	-43.090	-4.934
50	299	-48.741	-41.503	-7.238
50	UB293	-48.261	-42.493	-5.768
50	UB294	-48.618	-17.920	-30.698
50	UB295	-49.191	-20.550	-28.641
50	UB296	-49.010	-28.359	-20.651
50	UB297	-49.079	-24.321	-24.688
50	Max	-45.107	-17.920	1.560
50	Average	-48.322	-43.643	-4.678
50	Min	-50.452	-48.741	-30.698
50	Std Dev	1.033	6.224	6.519

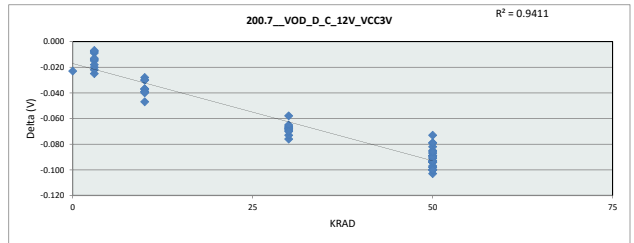


200.6_VOD_R_N_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	49 mV				
Min Limit	-490 mV				
KRAD	0	3	10	30	50
LL	-490.000	-490.000	-490.000	-490.000	-490.000
Min	-48.246	-48.741	-47.231	-48.168	-44.562
Average	-48.246	-47.599	-46.114	-46.508	-39.893
Max	-48.246	-45.469	-44.984	-44.744	-17.920
UL	49.000	49.000	49.000	49.000	49.000

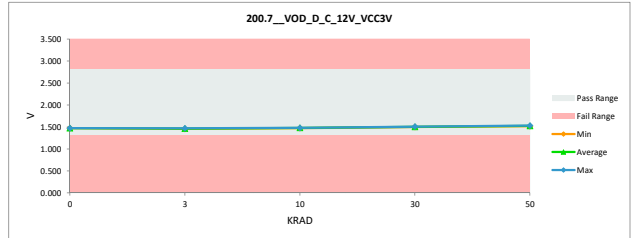


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

200.7_VOD_D_C_12V_VCC3V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.3	1.3		
KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	1.449	1.472	-0.023
3	1	1.448	1.462	-0.014
3	2	1.447	1.462	-0.015
3	3	1.444	1.469	-0.025
3	6	1.450	1.459	-0.009
3	11	1.449	1.467	-0.018
3	UB14	1.446	1.466	-0.020
3	UB16	1.446	1.454	-0.008
3	UB18	1.443	1.465	-0.022
3	UB19	1.449	1.456	-0.007
3	UB22	1.450	1.463	-0.013
10	23	1.444	1.474	-0.030
10	24	1.441	1.478	-0.037
10	25	1.448	1.476	-0.028
10	28	1.444	1.481	-0.037
10	30	1.444	1.481	-0.037
10	UB33	1.439	1.478	-0.039
10	UB35	1.447	1.477	-0.030
10	UB36	1.442	1.481	-0.039
10	UB39	1.435	1.482	-0.047
10	UB40	1.441	1.481	-0.040
30	43	1.434	1.501	-0.067
30	44	1.441	1.499	-0.058
30	48	1.434	1.502	-0.068
30	50	1.435	1.501	-0.066
30	52	1.426	1.502	-0.076
30	UB96	1.436	1.505	-0.069
30	UB98	1.440	1.508	-0.068
30	UB99	1.433	1.506	-0.073
30	UB101	1.440	1.505	-0.065
30	UB102	1.433	1.503	-0.070
50	105	1.422	1.525	-0.103
50	108	1.434	1.523	-0.089
50	107	1.428	1.522	-0.094
50	111	1.424	1.524	-0.100
50	113	1.425	1.523	-0.098
50	114	1.421	1.521	-0.100
50	115	1.426	1.523	-0.097
50	119	1.422	1.520	-0.098
50	118	1.427	1.521	-0.094
50	121	1.433	1.522	-0.089
50	124	1.433	1.527	-0.094
50	125	1.425	1.525	-0.100
50	128	1.431	1.531	-0.100
50	130	1.430	1.521	-0.091
50	131	1.436	1.523	-0.087
50	133	1.435	1.524	-0.089
50	134	1.432	1.526	-0.094
50	135	1.432	1.525	-0.093
50	137	1.448	1.527	-0.079
50	298	1.438	1.523	-0.085
50	299	1.432	1.525	-0.093
50	UB293	1.434	1.524	-0.090
50	UB294	1.443	1.516	-0.073
50	UB295	1.439	1.521	-0.082
50	UB296	1.443	1.522	-0.079
50	UB297	1.436	1.522	-0.086
50	Max	1.450	1.531	-0.007
50	Average	1.437	1.500	-0.063
50	Min	1.421	1.454	-0.103
50	Std Dev	0.008	0.025	0.031



200.7_VOD_D_C_12V_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.3	V			
KRAD	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	1.472	1.454	1.474	1.499	1.516
Average	1.472	1.462	1.479	1.503	1.523
Max	1.472	1.469	1.482	1.508	1.531
UL	2.800	2.800	2.800	2.800	2.800

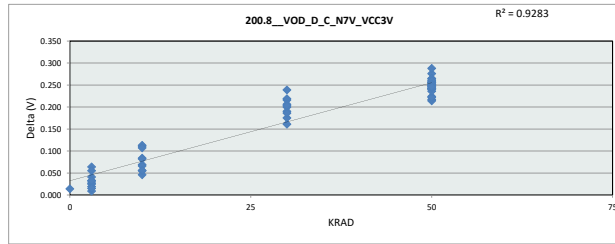


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

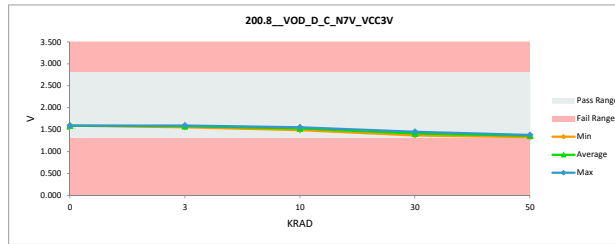
200.8_VOD_D_C_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.3	1.3

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	1.606	1.592	0.014
3	1	1.599	1.574	0.025
3	2	1.606	1.579	0.027
3	3	1.600	1.591	0.009
3	6	1.618	1.554	0.064
3	11	1.610	1.578	0.032
3	UB14	1.606	1.587	0.019
3	UB16	1.615	1.574	0.041
3	UB18	1.609	1.594	0.015
3	UB19	1.617	1.562	0.055
3	UB22	1.617	1.584	0.033
10	23	1.600	1.489	0.111
10	24	1.610	1.497	0.113
10	25	1.614	1.507	0.107
10	28	1.604	1.535	0.069
10	30	1.616	1.532	0.084
10	UB33	1.609	1.543	0.066
10	UB35	1.619	1.537	0.082
10	UB36	1.608	1.553	0.055
10	UB39	1.602	1.556	0.046
10	UB40	1.607	1.551	0.056
30	43	1.609	1.370	0.239
30	44	1.617	1.417	0.200
30	48	1.601	1.426	0.175
30	50	1.618	1.428	0.190
30	52	1.600	1.384	0.216
30	UB96	1.608	1.389	0.219
30	UB98	1.615	1.454	0.161
30	UB99	1.619	1.413	0.206
30	UB101	1.617	1.431	0.186
30	UB102	1.611	1.408	0.203
50	105	1.583	1.369	0.214
50	108	1.617	1.341	0.276
50	107	1.613	1.365	0.248
50	111	1.610	1.346	0.264
50	113	1.609	1.368	0.241
50	114	1.607	1.351	0.256
50	115	1.617	1.352	0.265
50	119	1.605	1.349	0.256
50	118	1.617	1.367	0.250
50	121	1.606	1.363	0.243
50	124	1.613	1.363	0.250
50	125	1.600	1.376	0.224
50	128	1.609	1.362	0.247
50	130	1.618	1.363	0.255
50	131	1.615	1.375	0.240
50	133	1.618	1.375	0.243
50	134	1.618	1.359	0.259
50	135	1.612	1.352	0.260
50	137	1.611	1.359	0.252
50	298	1.597	1.380	0.217
50	299	1.602	1.380	0.222
50	UB293	1.613	1.377	0.236
50	UB294	1.618	1.330	0.288
50	UB295	1.608	1.365	0.243
50	UB296	1.618	1.367	0.251
50	UB297	1.613	1.367	0.246
50	Max	1.619	1.594	0.288
50	Average	1.610	1.442	0.168
50	Min	1.583	1.330	0.009
50	Std Dev	0.007	0.092	0.093



200.8_VOD_D_C_N7V_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	2.8	V
Min Limit	1.3	V

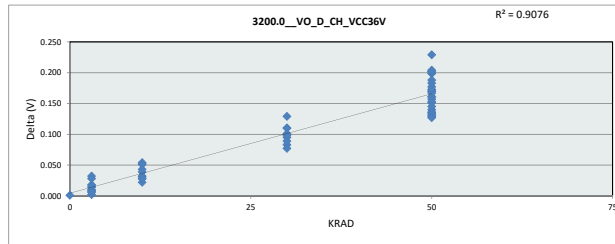
KRAD	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	1.592	1.554	1.489	1.370	1.330
Average	1.592	1.578	1.530	1.412	1.362
Max	1.592	1.594	1.556	1.454	1.380
UL	2.800	2.800	2.800	2.800	2.800



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

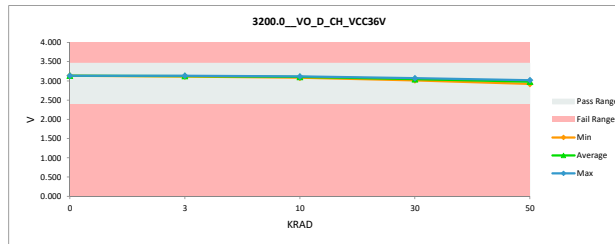
3200.0_VO_D_CH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3.46	3.46
Min Limit	2.47	2.4

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	3.136	3.135	0.001
3	1	3.133	3.125	0.008
3	2	3.137	3.127	0.010
3	3	3.134	3.132	0.002
3	6	3.145	3.113	0.032
3	11	3.139	3.125	0.014
3	UB14	3.138	3.130	0.008
3	UB16	3.143	3.125	0.018
3	UB18	3.140	3.134	0.006
3	UB19	3.145	3.117	0.028
3	UB22	3.145	3.129	0.016
10	23	3.134	3.083	0.051
10	24	3.141	3.087	0.054
10	25	3.144	3.092	0.052
10	28	3.137	3.106	0.031
10	30	3.146	3.103	0.043
10	UB33	3.142	3.110	0.032
10	UB35	3.147	3.108	0.039
10	UB36	3.142	3.114	0.028
10	UB39	3.138	3.116	0.022
10	UB40	3.141	3.113	0.028
30	43	3.143	3.014	0.129
30	44	3.148	3.049	0.099
30	48	3.138	3.055	0.083
30	50	3.150	3.055	0.095
30	52	3.140	3.030	0.110
30	UB96	3.144	3.034	0.110
30	UB98	3.147	3.070	0.077
30	UB99	3.150	3.049	0.101
30	UB101	3.148	3.059	0.089
30	UB102	3.145	3.046	0.099
50	105	3.128	2.993	0.135
50	108	3.149	2.920	0.229
50	107	3.148	2.978	0.170
50	111	3.146	2.944	0.202
50	113	3.146	2.989	0.157
50	114	3.145	2.946	0.199
50	115	3.150	2.951	0.199
50	119	3.145	2.943	0.202
50	118	3.150	2.989	0.161
50	121	3.141	2.980	0.161
50	124	3.147	2.977	0.170
50	125	3.140	3.000	0.140
50	128	3.144	2.977	0.167
50	130	3.151	2.974	0.177
50	131	3.148	2.997	0.151
50	133	3.150	2.997	0.153
50	134	3.150	2.967	0.183
50	135	3.146	2.958	0.188
50	137	3.143	2.970	0.173
50	298	3.136	3.005	0.131
50	299	3.139	3.003	0.136
50	UB293	3.146	3.001	0.145
50	UB294	3.147	2.943	0.204
50	UB295	3.142	3.013	0.129
50	UB296	3.148	3.015	0.133
50	UB297	3.146	3.019	0.127
50	Max	3.151	3.135	0.229
50	Average	3.143	3.041	0.102
50	Min	3.128	2.920	0.001
50	Std Dev	0.005	0.066	0.068



3200.0_VO_D_CH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	3.46	V
Min Limit	2.4	V

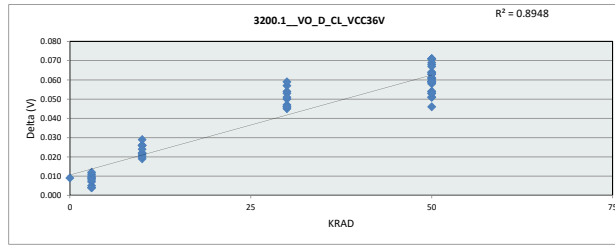
KRAD	0	3	10	30	50
LL	2.400	2.400	2.400	2.400	2.400
Min	3.135	3.113	3.083	3.014	2.920
Average	3.135	3.126	3.103	3.046	2.979
Max	3.135	3.134	3.116	3.070	3.019
UL	3.460	3.460	3.460	3.460	3.460



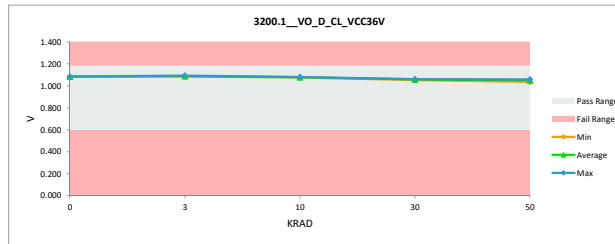
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3200.1_VO_D_CL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	1.18	1.18
Min Limit	0.6	0.6

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	1.094	1.085	0.009
3	1	1.094	1.090	0.004
3	2	1.096	1.091	0.005
3	3	1.097	1.086	0.011
3	6	1.096	1.087	0.009
3	11	1.095	1.085	0.010
3	UB14	1.097	1.088	0.009
3	UB16	1.098	1.094	0.004
3	UB18	1.101	1.089	0.012
3	UB19	1.097	1.090	0.007
3	UB22	1.097	1.089	0.008
10	23	1.097	1.076	0.021
10	24	1.102	1.076	0.026
10	25	1.098	1.079	0.019
10	28	1.099	1.077	0.022
10	30	1.102	1.076	0.026
10	UB33	1.106	1.080	0.026
10	UB35	1.101	1.081	0.020
10	UB36	1.102	1.080	0.022
10	UB39	1.107	1.078	0.029
10	UB40	1.103	1.079	0.024
30	43	1.110	1.053	0.057
30	44	1.106	1.061	0.045
30	48	1.108	1.061	0.047
30	50	1.111	1.061	0.050
30	52	1.113	1.054	0.059
30	UB96	1.109	1.055	0.054
30	UB98	1.106	1.060	0.046
30	UB99	1.111	1.058	0.053
30	UB101	1.107	1.061	0.046
30	UB102	1.110	1.059	0.051
50	105	1.115	1.056	0.059
50	108	1.111	1.043	0.068
50	107	1.117	1.056	0.061
50	111	1.118	1.047	0.071
50	113	1.117	1.056	0.061
50	114	1.120	1.049	0.071
50	115	1.118	1.049	0.069
50	119	1.121	1.050	0.071
50	118	1.118	1.057	0.061
50	121	1.109	1.055	0.054
50	124	1.112	1.052	0.060
50	125	1.115	1.057	0.058
50	128	1.113	1.049	0.064
50	130	1.114	1.055	0.059
50	131	1.111	1.058	0.053
50	133	1.111	1.057	0.054
50	134	1.113	1.050	0.063
50	135	1.112	1.048	0.064
50	137	1.100	1.049	0.051
50	298	1.105	1.059	0.046
50	299	1.108	1.057	0.051
50	UB293	1.111	1.058	0.053
50	UB294	1.103	1.036	0.067
50	UB295	1.105	1.046	0.059
50	UB296	1.104	1.045	0.059
50	UB297	1.109	1.046	0.063
50	Max	1.121	1.094	0.071
50	Average	1.107	1.065	0.042
50	Min	1.094	1.036	0.004
50	Std Dev	0.007	0.016	0.022



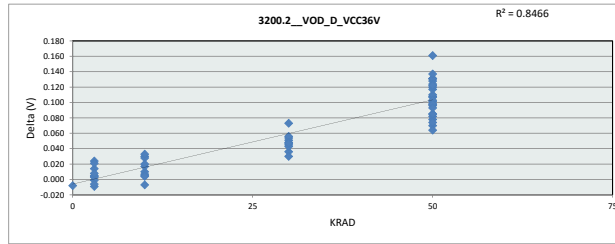
3200.1_VO_D_CL_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	1.18	V			
Min Limit	0.6	V			
KRAD	0	3	10	30	50
LL	0.600	0.600	0.600	0.600	0.600
Min	1.085	1.085	1.076	1.053	1.036
Average	1.085	1.089	1.078	1.058	1.052
Max	1.085	1.094	1.081	1.061	1.059
UL	1.180	1.180	1.180	1.180	1.180



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

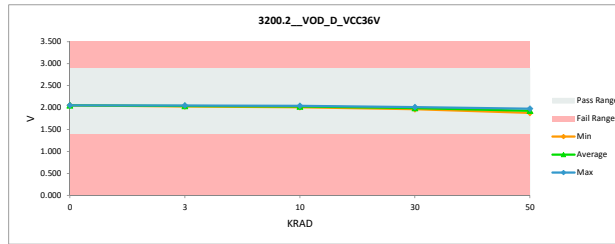
3200.2_VOD_D_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.89	2.89
Min Limit	1.4	1.4

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	2.043	2.051	-0.008
3	1	2.039	2.035	0.004
3	2	2.041	2.036	0.005
3	3	2.037	2.046	-0.009
3	6	2.049	2.025	0.024
3	11	2.044	2.041	0.003
3	UB14	2.041	2.042	-0.001
3	UB16	2.045	2.031	0.014
3	UB18	2.040	2.046	-0.006
3	UB19	2.048	2.027	0.021
3	UB22	2.048	2.040	0.008
10	23	2.037	2.007	0.030
10	24	2.039	2.011	0.028
10	25	2.046	2.013	0.033
10	28	2.038	2.028	0.010
10	30	2.044	2.027	0.017
10	UB33	2.037	2.030	0.007
10	UB35	2.046	2.026	0.020
10	UB36	2.040	2.035	0.005
10	UB39	2.031	2.038	-0.007
10	UB40	2.038	2.034	0.004
30	43	2.034	1.961	0.073
30	44	2.042	1.988	0.054
30	48	2.030	1.994	0.036
30	50	2.039	1.994	0.045
30	52	2.027	1.976	0.051
30	UB96	2.035	1.979	0.056
30	UB98	2.040	2.010	0.030
30	UB99	2.039	1.991	0.048
30	UB101	2.041	1.998	0.043
30	UB102	2.034	1.987	0.047
50	105	2.014	1.936	0.078
50	108	2.038	1.877	0.161
50	107	2.031	1.923	0.108
50	111	2.028	1.897	0.131
50	113	2.029	1.933	0.096
50	114	2.025	1.897	0.128
50	115	2.033	1.902	0.131
50	119	2.024	1.893	0.131
50	118	2.033	1.932	0.101
50	121	2.032	1.925	0.107
50	124	2.035	1.925	0.110
50	125	2.025	1.943	0.082
50	128	2.031	1.928	0.103
50	130	2.036	1.919	0.117
50	131	2.037	1.939	0.098
50	133	2.038	1.940	0.098
50	134	2.037	1.917	0.120
50	135	2.034	1.910	0.124
50	137	2.043	1.921	0.122
50	298	2.031	1.946	0.085
50	299	2.031	1.946	0.085
50	UB293	2.036	1.943	0.093
50	UB294	2.044	1.907	0.137
50	UB295	2.037	1.967	0.070
50	UB296	2.044	1.970	0.074
50	UB297	2.037	1.973	0.064
50	Max	2.049	2.051	0.161
50	Average	2.037	1.976	0.060
50	Min	2.014	1.877	-0.009
50	Std Dev	0.007	0.051	0.048



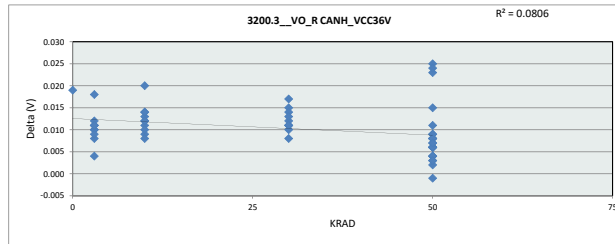
3200.2_VOD_D_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	2.89	V
Min Limit	1.4	V

KRAD	0	3	10	30	50
LL	1.400	1.400	1.400	1.400	1.400
Min	2.051	2.025	2.007	1.961	1.877
Average	2.051	2.037	2.025	1.988	1.927
Max	2.051	2.046	2.038	2.010	1.973
UL	2.890	2.890	2.890	2.890	2.890

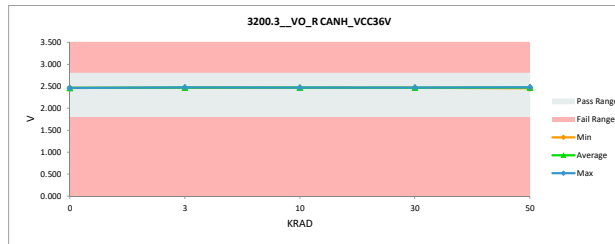


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3200.3_VO_R_CANH_VCC36V				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	V	V		
Max Limit	2.8	2.8		
Min Limit	1.8	1.8		
KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	2.480	2.461	0.019
3	1	2.478	2.468	0.010
3	2	2.476	2.466	0.010
3	3	2.479	2.468	0.011
3	6	2.477	2.473	0.004
3	11	2.483	2.465	0.018
3	UB14	2.479	2.467	0.012
3	UB16	2.478	2.467	0.011
3	UB18	2.475	2.467	0.008
3	UB19	2.479	2.468	0.011
3	UB22	2.476	2.467	0.009
10	23	2.479	2.468	0.011
10	24	2.478	2.469	0.009
10	25	2.477	2.469	0.008
10	28	2.480	2.468	0.012
10	30	2.480	2.470	0.010
10	UB33	2.479	2.465	0.014
10	UB35	2.482	2.469	0.013
10	UB36	2.480	2.466	0.014
10	UB39	2.477	2.465	0.012
10	UB40	2.486	2.466	0.020
30	43	2.476	2.468	0.008
30	44	2.481	2.464	0.017
30	48	2.482	2.467	0.015
30	50	2.480	2.466	0.014
30	52	2.480	2.468	0.012
30	UB96	2.482	2.469	0.013
30	UB98	2.477	2.466	0.011
30	UB99	2.479	2.468	0.011
30	UB101	2.477	2.467	0.010
30	UB102	2.479	2.468	0.011
50	105	2.481	2.473	0.008
50	108	2.478	2.476	0.002
50	107	2.478	2.470	0.008
50	111	2.477	2.474	0.003
50	113	2.482	2.471	0.011
50	114	2.481	2.473	0.008
50	115	2.481	2.475	0.006
50	119	2.481	2.477	0.004
50	118	2.481	2.475	0.006
50	121	2.480	2.474	0.006
50	124	2.473	2.474	-0.001
50	125	2.479	2.472	0.007
50	128	2.479	2.475	0.004
50	130	2.479	2.473	0.006
50	131	2.482	2.473	0.009
50	133	2.482	2.473	0.009
50	134	2.479	2.475	0.004
50	135	2.482	2.474	0.008
50	137	2.480	2.474	0.006
50	298	2.481	2.475	0.006
50	299	2.480	2.473	0.007
50	UB293	2.480	2.477	0.003
50	UB294	2.479	2.454	0.025
50	UB295	2.479	2.456	0.023
50	UB296	2.477	2.462	0.015
50	UB297	2.481	2.457	0.024
50	Max	2.486	2.477	0.005
50	Average	2.479	2.469	0.010
50	Min	2.473	2.454	-0.001
50	Std Dev	0.002	0.005	0.005



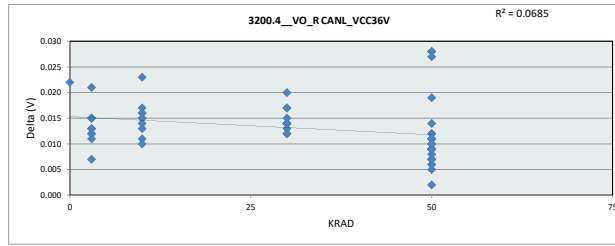
3200.3_VO_R_CANH_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	2.8	V			
Min Limit	1.8	V			
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.461	2.465	2.465	2.464	2.454
Average	2.461	2.468	2.468	2.467	2.471
Max	2.461	2.473	2.470	2.469	2.477
UL	2.800	2.800	2.800	2.800	2.800



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

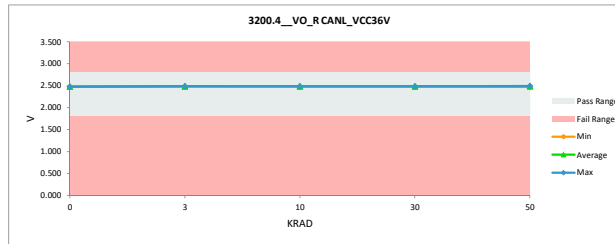
3200.4_VO_R CANL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.8	1.8

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	2.500	2.478	0.022
3	1	2.499	2.486	0.013
3	2	2.496	2.484	0.012
3	3	2.500	2.485	0.015
3	6	2.497	2.490	0.007
3	11	2.504	2.483	0.021
3	UB14	2.499	2.484	0.015
3	UB16	2.499	2.484	0.015
3	UB18	2.495	2.484	0.011
3	UB19	2.499	2.486	0.013
3	UB22	2.496	2.484	0.012
10	23	2.500	2.486	0.014
10	24	2.498	2.487	0.011
10	25	2.497	2.487	0.010
10	28	2.501	2.486	0.015
10	30	2.500	2.487	0.013
10	UB33	2.499	2.483	0.016
10	UB35	2.503	2.486	0.017
10	UB36	2.500	2.484	0.016
10	UB39	2.498	2.483	0.015
10	UB40	2.506	2.483	0.023
30	43	2.497	2.485	0.012
30	44	2.501	2.481	0.020
30	48	2.502	2.485	0.017
30	50	2.500	2.483	0.017
30	52	2.500	2.486	0.014
30	UB96	2.502	2.487	0.015
30	UB98	2.497	2.483	0.014
30	UB99	2.499	2.486	0.013
30	UB101	2.497	2.485	0.012
30	UB102	2.500	2.486	0.014
50	105	2.501	2.490	0.011
50	108	2.498	2.493	0.005
50	107	2.499	2.487	0.012
50	111	2.498	2.492	0.006
50	113	2.503	2.489	0.014
50	114	2.502	2.490	0.012
50	115	2.501	2.492	0.009
50	119	2.501	2.495	0.006
50	118	2.501	2.492	0.009
50	121	2.501	2.492	0.009
50	124	2.493	2.491	0.002
50	125	2.499	2.489	0.010
50	128	2.500	2.493	0.007
50	130	2.499	2.491	0.008
50	131	2.502	2.491	0.011
50	133	2.502	2.491	0.011
50	134	2.499	2.492	0.007
50	135	2.502	2.491	0.011
50	137	2.501	2.492	0.009
50	298	2.501	2.492	0.009
50	299	2.501	2.491	0.010
50	UB293	2.501	2.494	0.007
50	UB294	2.499	2.471	0.028
50	UB295	2.500	2.472	0.028
50	UB296	2.498	2.479	0.019
50	UB297	2.501	2.474	0.027
50	Max	2.506	2.495	0.028
50	Average	2.500	2.487	0.013
50	Min	2.493	2.471	0.002
50	Std Dev	0.002	0.005	0.005



3200.4_VO_R CANL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	2.8	V
Min Limit	1.8	V

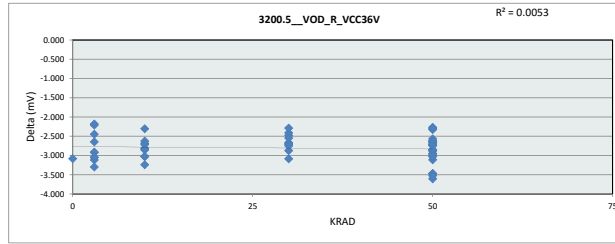
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.478	2.483	2.483	2.481	2.471
Average	2.478	2.485	2.485	2.485	2.489
Max	2.478	2.490	2.487	2.487	2.495
UL	2.800	2.800	2.800	2.800	2.800



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

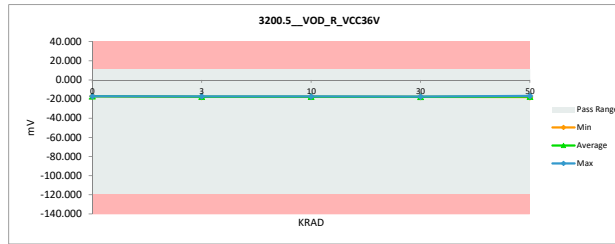
3200.5_VOD_R_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	10.92	10.92
Min Limit	-119	-119

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-20.116	-17.033	-3.083
3	1	-20.721	-17.420	-3.301
3	2	-20.397	-17.348	-3.049
3	3	-20.472	-17.355	-3.117
3	6	-19.967	-17.758	-2.209
3	11	-20.440	-17.521	-2.919
3	UB14	-20.289	-17.378	-2.911
3	UB16	-20.028	-17.581	-2.447
3	UB18	-20.276	-17.230	-3.046
3	UB19	-19.944	-17.762	-2.182
3	UB22	-19.954	-17.307	-2.647
10	23	-20.472	-17.660	-2.812
10	24	-20.264	-17.582	-2.682
10	25	-19.996	-17.692	-2.304
10	28	-20.606	-17.577	-3.029
10	30	-20.164	-17.308	-2.856
10	UB33	-20.111	-17.485	-2.626
10	UB35	-20.175	-17.459	-2.716
10	UB36	-20.357	-17.528	-2.829
10	UB39	-20.558	-17.318	-3.240
10	UB40	-20.296	-17.272	-3.024
30	43	-20.426	-17.731	-2.695
30	44	-20.039	-17.627	-2.412
30	48	-20.506	-17.417	-3.089
30	50	-20.068	-17.589	-2.479
30	52	-20.221	-17.552	-2.669
30	UB96	-20.208	-17.661	-2.547
30	UB98	-20.392	-17.678	-2.714
30	UB99	-20.062	-17.774	-2.288
30	UB101	-20.354	-17.481	-2.873
30	UB102	-20.398	-17.648	-2.750
50	105	-20.780	-17.311	-3.469
50	108	-20.068	-17.743	-2.325
50	107	-20.431	-17.549	-2.882
50	111	-20.342	-17.479	-2.863
50	113	-20.207	-17.940	-2.267
50	114	-20.359	-17.734	-2.625
50	115	-20.161	-17.210	-2.951
50	119	-20.102	-17.804	-2.298
50	118	-20.060	-17.410	-2.650
50	121	-20.442	-17.725	-2.717
50	124	-20.370	-17.257	-3.113
50	125	-20.455	-17.464	-2.991
50	128	-20.296	-17.595	-2.701
50	130	-20.128	-17.383	-2.745
50	131	-20.067	-17.218	-2.849
50	133	-20.015	-17.447	-2.568
50	134	-20.131	-17.474	-2.657
50	135	-20.243	-17.624	-2.619
50	137	-20.457	-17.722	-2.735
50	298	-20.730	-17.125	-3.605
50	299	-20.319	-17.294	-3.025
50	UB293	-20.319	-17.368	-2.951
50	UB294	-20.234	-16.766	-3.468
50	UB295	-20.331	-16.808	-3.523
50	UB296	-20.253	-17.404	-2.849
50	UB297	-20.243	-17.221	-3.022
50	Max	-19.944	-16.766	-2.182
50	Average	-20.278	-17.470	-2.807
50	Min	-20.780	-17.940	-3.605
50	Std Dev	0.198	0.233	0.329



3200.5_VOD_R_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	10.92	mV
Min Limit	-119	mV

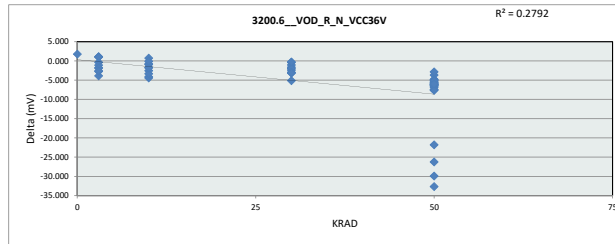
KRAD	0	3	10	30	50
LL	-119.000	-119.000	-119.000	-119.000	-119.000
Min	-17.033	-17.762	-17.692	-17.774	-17.940
Average	-17.033	-17.456	-17.488	-17.616	-17.426
Max	-17.033	-17.230	-17.272	-17.417	-16.766
UL	10.920	10.920	10.920	10.920	10.920



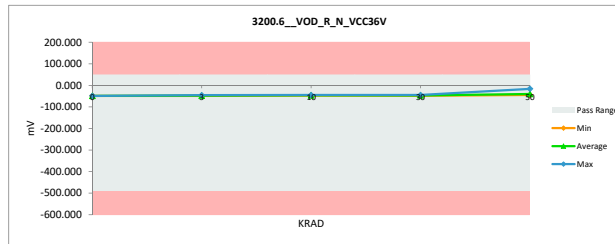
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3200.6_VOD_R_N_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	49	49
Min Limit	-490	-490

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	-46.981	-48.711	1.730
3	1	-48.669	-48.288	-0.381
3	2	-49.759	-46.979	-2.780
3	3	-47.886	-48.874	0.988
3	6	-49.416	-45.499	-3.917
3	11	-49.426	-47.594	-1.832
3	UB14	-47.065	-48.145	1.080
3	UB16	-49.316	-48.171	-1.145
3	UB18	-46.633	-47.624	0.991
3	UB19	-48.915	-47.029	-1.886
3	UB22	-50.512	-47.873	-2.639
10	23	-47.886	-46.176	-1.710
10	24	-45.187	-45.877	0.690
10	25	-49.877	-45.410	-4.467
10	28	-48.344	-47.384	-0.960
10	30	-48.781	-44.591	-4.190
10	UB33	-47.280	-44.680	-2.600
10	UB35	-49.282	-45.906	-3.376
10	UB36	-47.886	-47.086	-0.800
10	UB39	-49.167	-47.113	-1.854
10	UB40	-46.886	-46.764	-0.122
30	43	-48.776	-46.351	-2.425
30	44	-49.436	-48.351	-1.085
30	48	-47.432	-47.016	-0.416
30	50	-48.201	-46.524	-1.677
30	52	-48.951	-46.883	-2.068
30	UB96	-47.889	-44.878	-3.011
30	UB98	-49.647	-46.422	-3.225
30	UB99	-49.177	-46.032	-3.145
30	UB101	-49.749	-44.575	-5.174
30	UB102	-48.714	-48.411	-0.303
50	105	-47.582	-42.385	-5.197
50	108	-49.892	-43.435	-6.457
50	107	-49.343	-43.298	-6.045
50	111	-48.854	-42.694	-6.160
50	113	-48.615	-44.879	-3.736
50	114	-51.374	-43.924	-7.450
50	115	-47.743	-41.327	-6.416
50	119	-50.109	-43.296	-6.813
50	118	-47.007	-41.492	-5.515
50	121	-49.108	-43.364	-5.744
50	124	-50.362	-43.582	-6.780
50	125	-49.993	-42.408	-7.585
50	128	-49.088	-43.424	-5.664
50	130	-49.006	-42.733	-6.273
50	131	-49.209	-43.255	-5.954
50	133	-48.676	-43.880	-4.826
50	134	-49.403	-43.187	-6.216
50	135	-46.893	-44.017	-2.876
50	137	-49.118	-44.236	-4.882
50	298	-48.571	-43.399	-5.172
50	299	-49.269	-41.613	-7.656
50	UB293	-48.907	-42.881	-6.026
50	UB294	-48.783	-16.078	-32.705
50	UB295	-49.422	-19.495	-29.927
50	UB296	-49.548	-27.689	-21.859
50	UB297	-49.620	-23.320	-26.300
50	Max	-45.187	-16.078	1.730
50	Average	-48.748	-43.626	-5.122
50	Min	-51.374	-48.874	-32.705
50	Std Dev	1.120	6.537	6.825

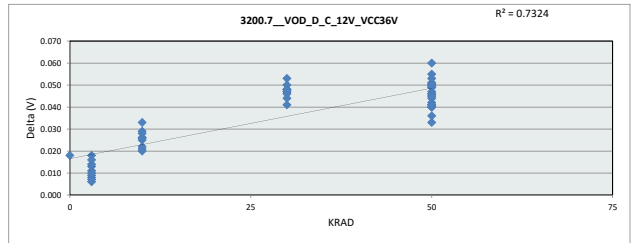


3200.6_VOD_R_N_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	49	mV			
Min Limit	-490	mV			
KRAD	0	3	10	30	50
LL	-490.000	-490.000	-490.000	-490.000	-490.000
Min	-48.711	-48.874	-47.384	-48.411	-44.879
Average	-48.711	-47.608	-46.119	-46.544	-39.818
Max	-48.711	-45.499	-44.591	-44.575	-16.078
UL	49.000	49.000	49.000	49.000	49.000

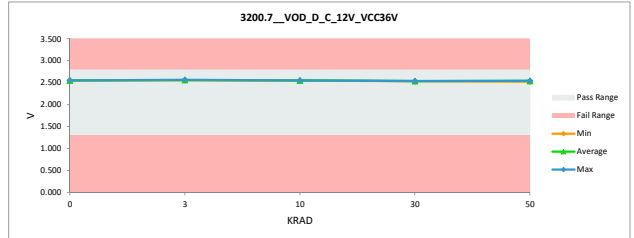


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3200.7_VOD_D_C_12V_VCC36				
Test Site	Junkins		Junkins	
Tester	ETS10		ETS10	
Test Number	EF580302		EF580302	
Unit	V		V	
Max Limit	2.79		2.79	
Min Limit	1.3		1.3	
KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	2.569	2.551	0.018
3	1	2.569	2.560	0.009
3	2	2.571	2.560	0.011
3	3	2.573	2.555	0.018
3	6	2.569	2.561	0.008
3	11	2.569	2.556	0.013
3	UB14	2.572	2.558	0.014
3	UB16	2.572	2.566	0.006
3	UB18	2.574	2.558	0.016
3	UB19	2.570	2.563	0.007
3	UB22	2.569	2.559	0.010
10	23	2.573	2.551	0.022
10	24	2.575	2.550	0.025
10	25	2.571	2.551	0.020
10	28	2.574	2.548	0.026
10	30	2.574	2.548	0.026
10	UB33	2.579	2.550	0.029
10	UB35	2.572	2.551	0.021
10	UB36	2.575	2.549	0.026
10	UB39	2.581	2.548	0.033
10	UB40	2.577	2.549	0.028
30	43	2.582	2.534	0.048
30	44	2.578	2.537	0.041
30	48	2.582	2.535	0.047
30	50	2.582	2.536	0.046
30	52	2.587	2.534	0.053
30	UB96	2.581	2.533	0.048
30	UB98	2.579	2.532	0.047
30	UB99	2.583	2.533	0.050
30	UB101	2.578	2.534	0.044
30	UB102	2.583	2.535	0.048
50	105	2.590	2.541	0.049
50	108	2.582	2.540	0.042
50	107	2.589	2.543	0.046
50	111	2.590	2.540	0.050
50	113	2.589	2.542	0.047
50	114	2.593	2.542	0.051
50	115	2.590	2.541	0.049
50	119	2.593	2.543	0.050
50	118	2.589	2.544	0.045
50	121	2.582	2.542	0.040
50	124	2.584	2.540	0.044
50	125	2.590	2.541	0.049
50	128	2.586	2.536	0.050
50	130	2.585	2.544	0.041
50	131	2.583	2.543	0.040
50	133	2.583	2.542	0.041
50	134	2.585	2.539	0.046
50	135	2.584	2.539	0.045
50	137	2.571	2.538	0.033
50	298	2.579	2.543	0.036
50	299	2.582	2.542	0.040
50	UB293	2.583	2.542	0.041
50	UB294	2.575	2.524	0.051
50	UB295	2.578	2.523	0.055
50	UB296	2.575	2.522	0.053
50	UB297	2.582	2.522	0.060
50	Max	2.593	2.566	0.060
50	Average	2.580	2.544	0.036
50	Min	2.569	2.522	0.006
50	Std Dev	0.007	0.010	0.015



3200.7_VOD_D_C_12V_VCC36					
Test Site	Junkins		Junkins		
Tester	ETS10		ETS10		
Test Number	EF580302		EF580302		
Max Limit	2.79		V		
Min Limit	1.3		V		
KRAD	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	2.551	2.555	2.548	2.532	2.522
Average	2.551	2.560	2.550	2.534	2.538
Max	2.551	2.566	2.551	2.537	2.544
UL	2.790	2.790	2.790	2.790	2.790

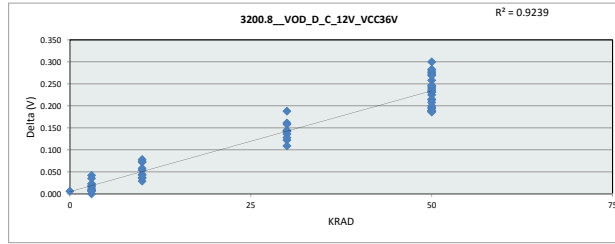


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

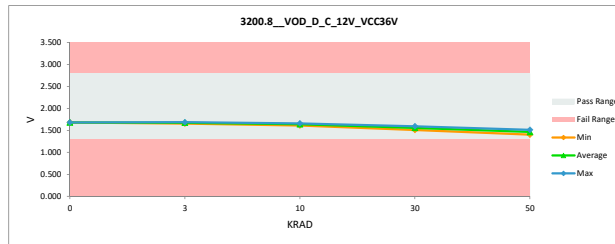
3200.8_VOD_D_C_12V_VCC36		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	V	
Max Limit	2.79	
Min Limit	1.3	

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	1.687	1.681	0.006
3	1	1.682	1.673	0.009
3	2	1.687	1.676	0.011
3	3	1.684	1.684	0.000
3	6	1.698	1.656	0.042
3	11	1.690	1.674	0.016
3	UB14	1.688	1.681	0.007
3	UB16	1.696	1.673	0.023
3	UB18	1.692	1.686	0.006
3	UB19	1.698	1.663	0.035
3	UB22	1.698	1.679	0.019
10	23	1.684	1.610	0.074
10	24	1.694	1.616	0.078
10	25	1.697	1.625	0.072
10	28	1.688	1.645	0.043
10	30	1.699	1.641	0.058
10	UB33	1.695	1.651	0.044
10	UB35	1.701	1.647	0.054
10	UB36	1.694	1.658	0.036
10	UB39	1.689	1.660	0.029
10	UB40	1.693	1.656	0.037
30	43	1.696	1.508	0.188
30	44	1.702	1.559	0.143
30	48	1.689	1.567	0.122
30	50	1.704	1.568	0.136
30	52	1.690	1.529	0.161
30	UB96	1.697	1.539	0.158
30	UB98	1.701	1.592	0.109
30	UB99	1.705	1.561	0.144
30	UB101	1.702	1.574	0.128
30	UB102	1.698	1.556	0.142
50	105	1.676	1.480	0.196
50	108	1.703	1.403	0.300
50	107	1.701	1.467	0.234
50	111	1.699	1.417	0.282
50	113	1.698	1.473	0.225
50	114	1.697	1.426	0.271
50	115	1.705	1.430	0.275
50	119	1.697	1.420	0.277
50	118	1.705	1.474	0.231
50	121	1.694	1.462	0.232
50	124	1.701	1.460	0.241
50	125	1.691	1.491	0.200
50	128	1.697	1.459	0.238
50	130	1.705	1.460	0.245
50	131	1.702	1.488	0.214
50	133	1.704	1.489	0.215
50	134	1.705	1.447	0.258
50	135	1.700	1.431	0.269
50	137	1.696	1.449	0.247
50	298	1.686	1.497	0.189
50	299	1.691	1.497	0.194
50	UB293	1.700	1.492	0.208
50	UB294	1.702	1.419	0.283
50	UB295	1.695	1.507	0.188
50	UB296	1.702	1.513	0.189
50	UB297	1.699	1.513	0.186
50	Max	1.705	1.686	0.300
50	Average	1.696	1.552	0.144
50	Min	1.676	1.403	0.000
50	Std Dev	0.007	0.093	0.096



3200.8_VOD_D_C_12V_VCC36		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	2.79 V	
Min Limit	1.3 V	

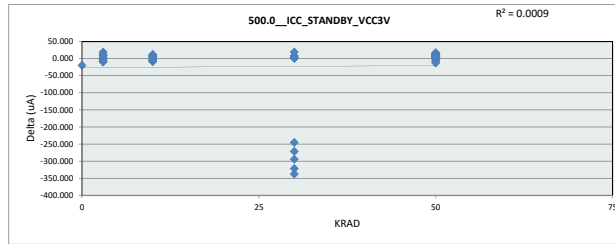
KRAD	0	3	10	30	50
LL	1.300	1.300	1.300	1.300	1.300
Min	1.681	1.656	1.610	1.508	1.403
Average	1.681	1.675	1.641	1.555	1.464
Max	1.681	1.686	1.660	1.592	1.513
UL	2.790	2.790	2.790	2.790	2.790



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

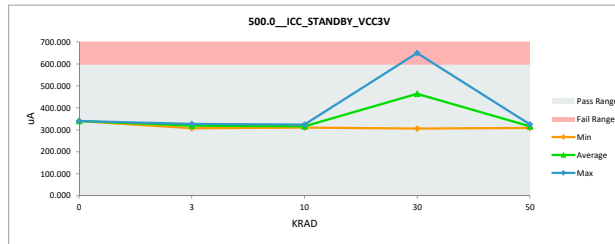
500.0_ICC_STANDBY_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	320.337	340.414	-20.077
3	1	315.597	321.696	-6.099
3	2	319.502	316.736	2.766
3	3	314.986	323.604	-8.618
3	6	326.304	307.324	18.980
3	11	326.507	317.835	8.672
3	UB14	317.882	318.213	-0.331
3	UB16	325.010	325.027	-0.017
3	UB18	313.989	324.006	-10.017
3	UB19	322.399	310.180	12.219
3	UB22	325.378	326.979	-1.601
10	23	314.986	310.649	4.337
10	24	321.137	312.709	8.428
10	25	325.444	313.592	11.852
10	28	305.652	313.784	-8.132
10	30	328.849	319.696	9.153
10	UB33	318.533	323.827	-5.294
10	UB35	320.212	314.868	5.344
10	UB36	314.289	323.101	-8.812
10	UB39	317.046	319.209	-2.163
10	UB40	315.760	313.474	2.286
30	43	316.232	637.985	-321.753
30	44	331.864	626.583	-294.719
30	48	314.358	586.039	-271.681
30	50	318.429	563.893	-245.464
30	52	312.480	649.824	-337.344
30	UB96	321.236	313.837	7.399
30	UB98	321.483	320.731	0.752
30	UB99	324.838	321.010	3.828
30	UB101	315.632	314.545	1.087
30	UB102	324.897	305.927	18.970
50	105	314.472	317.788	-3.316
50	108	326.777	313.606	13.171
50	107	316.800	325.222	-8.422
50	111	313.517	311.182	2.335
50	113	319.907	319.959	-0.052
50	114	321.330	319.319	2.011
50	115	320.141	312.051	8.090
50	119	323.520	317.801	5.719
50	118	324.814	314.810	10.004
50	121	317.399	315.103	2.296
50	124	321.941	319.594	2.347
50	125	319.288	316.418	2.870
50	128	314.824	314.236	0.588
50	130	322.421	318.883	3.538
50	131	325.700	315.595	10.105
50	133	327.997	322.133	5.864
50	134	318.266	316.304	1.962
50	135	322.999	309.096	13.903
50	137	323.915	313.499	10.416
50	298	306.742	319.504	-12.762
50	299	320.278	318.380	1.898
50	UB293	322.076	315.408	6.668
50	UB294	326.397	312.119	14.278
50	UB295	329.664	312.847	16.817
50	UB296	328.647	317.777	10.870
50	UB297	321.842	316.509	5.333
50	Max	331.864	649.824	18.980
50	Average	320.402	343.201	-22.799
50	Min	305.652	305.927	-337.344
50	Std Dev	5.448	85.097	85.833



500.0_ICC_STANDBY_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	595	uA
Min Limit	0	uA

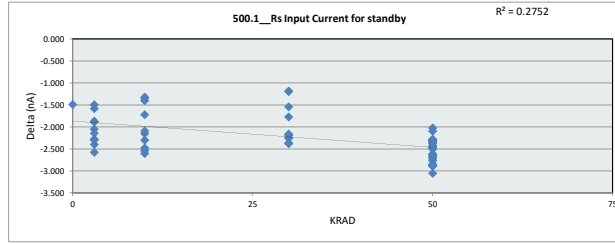
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	340.414	307.324	310.649	305.927	309.096
Average	340.414	319.160	316.491	464.037	316.352
Max	340.414	326.979	323.827	649.824	325.222
UL	595.000	595.000	595.000	595.000	595.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

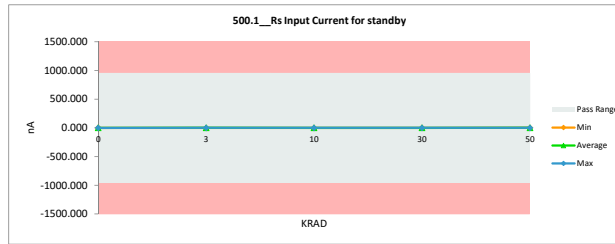
500.1_Rs Input Current for sta		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	nA	nA
Max Limit	950	950
Min Limit	-950	-950

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	-1.622	-0.131	-1.491
3	1	-1.476	0.924	-2.400
3	2	-1.913	-0.414	-1.499
3	3	-1.968	-0.079	-1.889
3	6	-1.885	0.692	-2.577
3	11	-1.496	0.554	-2.050
3	UB14	-1.756	0.113	-1.869
3	UB16	-1.929	0.369	-2.298
3	UB18	-1.469	0.117	-1.586
3	UB19	-1.508	0.770	-2.278
3	UB22	-1.885	0.259	-2.144
10	23	-1.968	0.640	-2.608
10	24	-1.673	-0.351	-1.322
10	25	-1.453	-0.107	-1.346
10	28	-1.575	0.578	-2.153
10	30	-1.744	0.558	-2.302
10	UB33	-1.775	-0.052	-1.723
10	UB35	-1.866	0.613	-2.479
10	UB36	-2.023	0.070	-2.093
10	UB39	-1.579	-0.178	-1.401
10	UB40	-1.779	0.762	-2.541
30	43	-1.417	-0.229	-1.188
30	44	-1.429	-0.233	-1.196
30	48	-1.665	0.700	-2.365
30	50	-1.642	0.546	-2.188
30	52	-1.598	0.176	-1.774
30	UB96	-1.657	0.601	-2.258
30	UB98	-1.791	0.589	-2.380
30	UB99	-1.697	-0.154	-1.543
30	UB101	-1.665	0.574	-2.239
30	UB102	-1.854	0.310	-2.164
50	105	-1.476	0.550	-2.026
50	108	-1.925	0.932	-2.857
50	107	-1.634	0.829	-2.463
50	111	-1.972	1.081	-3.053
50	113	-1.626	0.680	-2.306
50	114	-1.457	0.963	-2.420
50	115	-1.720	0.640	-2.360
50	119	-1.889	0.443	-2.332
50	118	-1.634	0.983	-2.617
50	121	-1.646	1.018	-2.664
50	124	-1.331	0.979	-2.310
50	125	-1.669	1.097	-2.766
50	128	-1.779	1.066	-2.845
50	130	-1.732	0.561	-2.293
50	131	-1.893	0.613	-2.506
50	133	-1.701	1.192	-2.893
50	134	-1.575	0.522	-2.097
50	135	-1.638	0.648	-2.286
50	137	-1.830	0.892	-2.722
50	298	-1.602	1.018	-2.620
50	299	-1.559	0.806	-2.365
50	UB293	-1.532	0.750	-2.282
50	UB294	-1.830	0.853	-2.683
50	UB295	-1.579	0.861	-2.440
50	UB296	-1.822	0.911	-2.663
50	UB297	-2.027	0.853	-2.880
50	Max	-1.331	1.192	-1.188
50	Average	-1.699	0.531	-2.230
50	Min	-2.027	-0.414	-3.053
50	Std Dev	0.172	0.421	0.458



500.1_Rs Input Current for s		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	950	nA
Min Limit	-950	nA

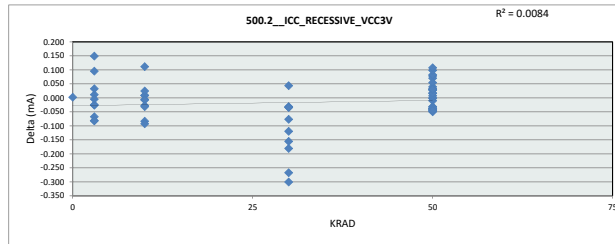
KRAD	0	3	10	30	50
LL	-950.000	-950.000	-950.000	-950.000	-950.000
Min	-0.131	-0.414	-0.351	-0.233	0.443
Average	-0.131	0.331	0.253	0.288	0.834
Max	-0.131	0.924	0.762	0.700	1.192
UL	950.000	950.000	950.000	950.000	950.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

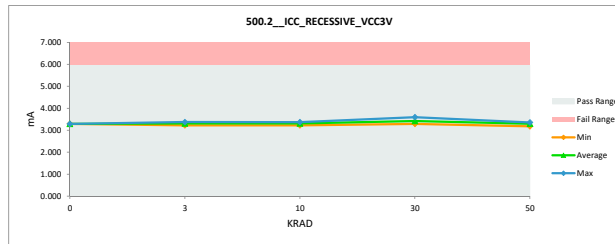
500.2_ICC_RECESSIVE_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.289	3.287	0.002
3	1	3.286	3.368	-0.082
3	2	3.320	3.309	0.011
3	3	3.293	3.320	-0.027
3	6	3.373	3.224	0.149
3	11	3.262	3.330	-0.068
3	UB14	3.276	3.301	-0.025
3	UB16	3.374	3.279	0.095
3	UB18	3.290	3.372	-0.082
3	UB19	3.318	3.286	0.032
3	UB22	3.334	3.339	-0.005
10	23	3.293	3.284	0.009
10	24	3.334	3.223	0.111
10	25	3.375	3.367	0.008
10	28	3.258	3.342	-0.084
10	30	3.306	3.312	-0.006
10	UB33	3.326	3.354	-0.028
10	UB35	3.297	3.273	0.024
10	UB36	3.250	3.343	-0.093
10	UB39	3.286	3.294	-0.008
10	UB40	3.281	3.313	-0.032
30	43	3.261	3.529	-0.268
30	44	3.414	3.595	-0.181
30	48	3.327	3.483	-0.156
30	50	3.350	3.470	-0.120
30	52	3.199	3.500	-0.301
30	UB96	3.294	3.326	-0.032
30	UB98	3.255	3.332	-0.077
30	UB99	3.316	3.350	-0.034
30	UB101	3.315	3.350	-0.035
30	UB102	3.333	3.290	0.043
50	105	3.311	3.294	0.017
50	108	3.291	3.293	-0.002
50	107	3.306	3.353	-0.047
50	111	3.258	3.180	0.078
50	113	3.300	3.273	0.027
50	114	3.307	3.347	-0.040
50	115	3.340	3.270	0.070
50	119	3.360	3.278	0.082
50	118	3.383	3.285	0.098
50	121	3.277	3.288	-0.011
50	124	3.254	3.286	-0.032
50	125	3.327	3.288	0.039
50	128	3.302	3.272	0.030
50	130	3.297	3.298	-0.001
50	131	3.250	3.289	-0.039
50	133	3.369	3.337	0.032
50	134	3.320	3.266	0.054
50	135	3.315	3.308	0.007
50	137	3.313	3.297	0.016
50	298	3.288	3.321	-0.033
50	299	3.303	3.344	-0.041
50	UB293	3.242	3.292	-0.050
50	UB294	3.346	3.316	0.030
50	UB295	3.342	3.235	0.107
50	UB296	3.293	3.333	-0.040
50	UB297	3.270	3.316	-0.046
50	Max	3.414	3.595	0.149
50	Average	3.306	3.323	-0.017
50	Min	3.199	3.180	-0.301
50	Std Dev	0.040	0.072	0.082



500.2_ICC_RECESSIVE_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	5.95	mA
Min Limit	0	mA

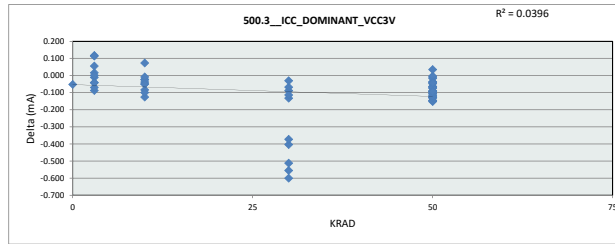
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.287	3.224	3.223	3.290	3.180
Average	3.287	3.313	3.311	3.423	3.295
Max	3.287	3.372	3.367	3.595	3.353
UL	5.950	5.950	5.950	5.950	5.950



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

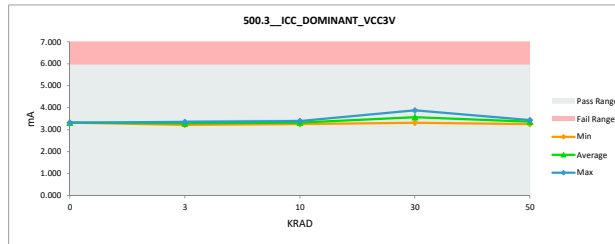
500.3_ICC_DOMINANT_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	mA	
Max Limit	5.95	
Min Limit	0	

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.269	3.321	-0.052
3	1	3.267	3.355	-0.088
3	2	3.281	3.292	-0.011
3	3	3.273	3.315	-0.042
3	6	3.339	3.222	0.117
3	11	3.242	3.312	-0.070
3	UB14	3.274	3.258	0.016
3	UB16	3.360	3.247	0.113
3	UB18	3.287	3.329	-0.042
3	UB19	3.307	3.252	0.055
3	UB22	3.327	3.326	0.001
10	23	3.273	3.295	-0.022
10	24	3.328	3.255	0.073
10	25	3.358	3.396	-0.038
10	28	3.234	3.360	-0.126
10	30	3.294	3.343	-0.049
10	UB33	3.317	3.342	-0.025
10	UB35	3.281	3.289	-0.008
10	UB36	3.244	3.328	-0.084
10	UB39	3.242	3.292	-0.050
10	UB40	3.222	3.322	-0.100
30	43	3.276	3.831	-0.555
30	44	3.368	3.880	-0.512
30	48	3.322	3.726	-0.404
30	50	3.337	3.710	-0.373
30	52	3.189	3.789	-0.600
30	UB96	3.254	3.343	-0.089
30	UB98	3.245	3.378	-0.133
30	UB99	3.298	3.366	-0.068
30	UB101	3.275	3.389	-0.114
30	UB102	3.286	3.317	-0.031
50	105	3.314	3.386	-0.072
50	108	3.281	3.370	-0.089
50	107	3.289	3.435	-0.146
50	111	3.247	3.256	-0.009
50	113	3.299	3.336	-0.037
50	114	3.279	3.431	-0.152
50	115	3.297	3.345	-0.048
50	119	3.341	3.358	-0.017
50	118	3.347	3.351	-0.004
50	121	3.272	3.368	-0.096
50	124	3.223	3.353	-0.130
50	125	3.285	3.350	-0.065
50	128	3.292	3.356	-0.064
50	130	3.287	3.361	-0.074
50	131	3.250	3.370	-0.120
50	133	3.321	3.414	-0.093
50	134	3.300	3.338	-0.038
50	135	3.271	3.399	-0.128
50	137	3.268	3.375	-0.107
50	298	3.242	3.390	-0.148
50	299	3.287	3.418	-0.131
50	UB293	3.246	3.366	-0.120
50	UB294	3.324	3.367	-0.043
50	UB295	3.311	3.276	0.035
50	UB296	3.243	3.349	-0.106
50	UB297	3.251	3.345	-0.094
50	Max	3.368	3.880	0.117
50	Average	3.285	3.380	-0.095
50	Min	3.189	3.222	-0.600
50	Std Dev	0.038	0.137	0.139



500.3_ICC_DOMINANT_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	5.95	mA
Min Limit	0	mA

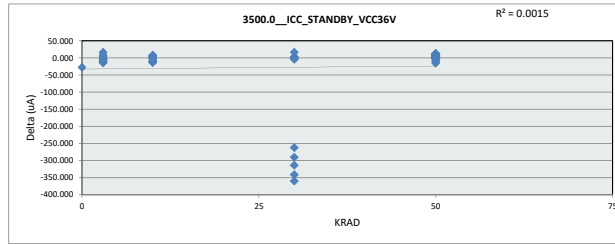
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.321	3.222	3.255	3.317	3.256
Average	3.321	3.291	3.322	3.373	3.364
Max	3.321	3.355	3.396	3.880	3.435
UL	5.950	5.950	5.950	5.950	5.950



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

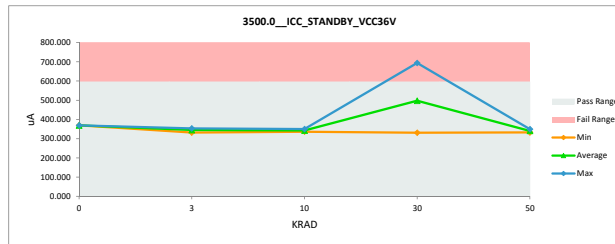
3500.0_ICC_STANDBY_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	341.899	369.168	-27.269
3	1	336.873	347.943	-11.070
3	2	341.284	342.643	-1.359
3	3	336.759	350.158	-13.399
3	6	348.473	332.035	16.438
3	11	348.539	344.202	4.337
3	UB14	340.030	344.226	-4.196
3	UB16	347.506	351.315	-3.809
3	UB18	336.095	350.232	-14.137
3	UB19	344.383	335.308	9.075
3	UB22	347.539	353.555	-6.016
10	23	336.759	336.408	0.351
10	24	343.219	338.196	5.023
10	25	347.826	339.780	8.046
10	28	327.717	340.059	-12.342
10	30	351.408	345.703	5.705
10	UB33	340.480	350.109	-9.629
10	UB35	342.432	340.682	1.750
10	UB36	336.054	349.346	-13.292
10	UB39	338.620	345.400	-6.780
10	UB40	337.669	339.771	-2.102
30	43	338.398	679.837	-341.439
30	44	354.072	667.801	-313.729
30	48	336.037	626.156	-290.119
30	50	340.095	602.207	-262.112
30	52	334.021	693.974	-359.953
30	UB96	343.194	339.624	3.570
30	UB98	343.571	346.876	-3.305
30	UB99	347.293	346.835	0.458
30	UB101	337.111	340.781	-3.670
30	UB102	347.030	330.714	16.316
50	105	335.947	341.544	-5.597
50	108	349.113	337.377	11.736
50	107	339.070	349.548	-10.478
50	111	335.086	335.097	-0.011
50	113	341.817	344.340	-2.523
50	114	343.178	342.913	0.265
50	115	342.153	335.475	6.678
50	119	345.907	341.256	4.651
50	118	346.817	338.288	8.529
50	121	338.816	338.739	0.077
50	124	343.358	343.446	-0.088
50	125	341.366	340.420	0.946
50	128	336.775	338.001	-1.226
50	130	344.932	342.610	2.322
50	131	347.826	339.436	8.390
50	133	350.236	346.251	3.985
50	134	340.489	339.788	0.701
50	135	345.161	332.637	12.524
50	137	345.891	336.943	8.948
50	298	328.102	343.635	-15.533
50	299	342.268	342.036	0.232
50	UB293	344.022	338.747	5.275
50	UB294	348.555	337.876	10.679
50	UB295	352.006	339.058	12.948
50	UB296	350.923	344.292	6.641
50	UB297	343.817	342.955	0.862
50	Max	354.072	693.974	16.438
50	Average	342.386	369.715	-27.329
50	Min	327.717	330.714	-359.953
50	Std Dev	5.648	89.733	90.516



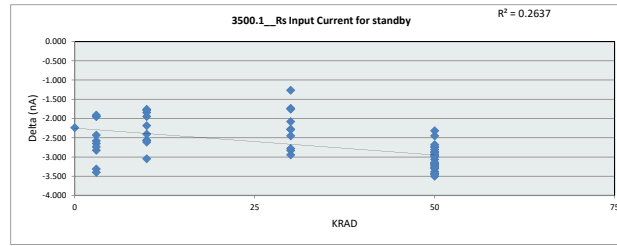
3500.0_ICC_STANDBY_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	369.168	332.035	336.408	330.714	332.637
Average	369.168	345.162	342.545	497.481	340.489
Max	369.168	353.555	350.109	693.974	349.548
UL	595.000	595.000	595.000	595.000	595.000

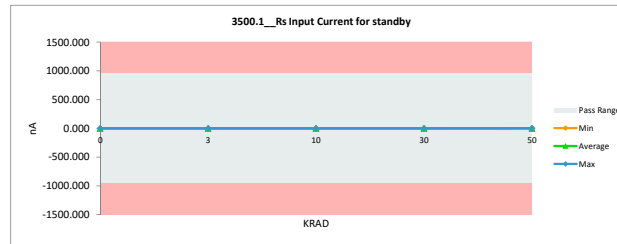


TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3500.1_Rs Input Current for st				
Test Site	Junkins	Junkins		
Tester	ETS10	ETS10		
Test Number	EF580302	EF580302		
Unit	nA	nA		
Max Limit	950	950		
Min Limit	-950	-950		
KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	-2.617	-0.378	-2.239
3	1	-2.239	0.342	-2.581
3	2	-2.416	-0.477	-1.939
3	3	-2.322	-0.370	-1.952
3	6	-2.845	0.468	-3.313
3	11	-2.428	0.397	-2.825
3	UB14	-2.220	-0.311	-1.909
3	UB16	-2.487	0.165	-2.652
3	UB18	-2.322	0.110	-2.432
3	UB19	-2.640	0.759	-3.399
3	UB22	-2.412	0.326	-2.738
10	23	-2.322	0.243	-2.565
10	24	-2.448	-0.685	-1.763
10	25	-2.338	-0.492	-1.846
10	28	-1.996	0.188	-2.184
10	30	-2.180	0.432	-2.612
10	UB33	-2.428	0.145	-2.573
10	UB35	-2.452	0.593	-3.045
10	UB36	-2.220	-0.433	-1.787
10	UB39	-2.365	-0.418	-1.947
10	UB40	-2.224	0.180	-2.404
30	43	-2.110	-0.374	-1.736
30	44	-2.066	-0.799	-1.267
30	48	-2.412	0.534	-2.946
30	50	-2.263	0.566	-2.829
30	52	-2.192	-0.111	-2.081
30	UB96	-2.554	0.224	-2.778
30	UB98	-2.247	0.039	-2.286
30	UB99	-2.231	-0.473	-1.758
30	UB101	-2.141	0.141	-2.282
30	UB102	-2.495	-0.044	-2.451
50	105	-2.436	0.987	-3.423
50	108	-2.334	0.924	-3.258
50	107	-2.176	0.703	-2.879
50	111	-2.279	0.782	-3.061
50	113	-1.917	0.947	-2.864
50	114	-2.349	0.955	-3.304
50	115	-2.294	0.679	-2.973
50	119	-2.287	0.888	-3.175
50	118	-2.373	0.790	-3.163
50	121	-2.463	0.739	-3.202
50	124	-2.031	0.900	-2.931
50	125	-2.172	0.967	-3.139
50	128	-2.534	0.963	-3.497
50	130	-2.487	0.896	-3.383
50	131	-2.487	0.723	-3.210
50	133	-2.090	0.640	-2.730
50	134	-2.157	0.652	-2.809
50	135	-1.952	0.991	-2.943
50	137	-2.574	0.865	-3.439
50	298	-2.283	1.164	-3.447
50	299	-2.235	1.042	-3.277
50	UB293	-1.972	0.778	-2.750
50	UB294	-2.314	0.137	-2.451
50	UB295	-1.779	0.538	-2.317
50	UB296	-2.102	0.578	-2.680
50	UB297	-2.420	0.570	-2.990
50	Max	-1.779	1.164	-1.267
50	Average	-2.301	0.373	-2.674
50	Min	-2.845	-0.799	-3.497
50	Std Dev	0.197	0.519	0.547



3500.1_Rs Input Current for					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	950	nA			
Min Limit	-950	nA			
KRAD	0	3	10	30	50
LL	-950.000	-950.000	-950.000	-950.000	-950.000
Min	-0.378	-0.477	-0.685	-0.799	0.137
Average	-0.378	0.141	-0.025	-0.030	0.800
Max	-0.378	0.759	0.593	0.566	1.164
UL	950.000	950.000	950.000	950.000	950.000

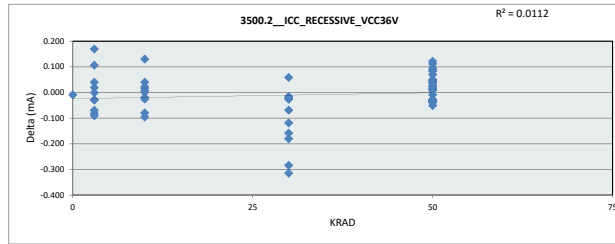


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

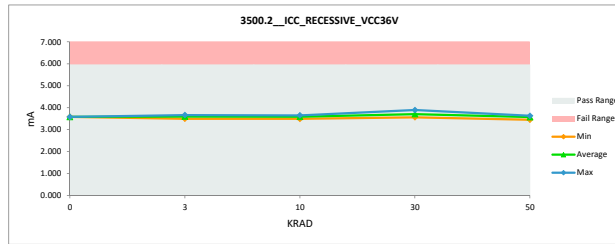
3500.2_ICC_RECESSIVE_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.568	3.578	-0.010
3	1	3.570	3.652	-0.082
3	2	3.607	3.588	0.019
3	3	3.576	3.605	-0.029
3	6	3.665	3.496	0.169
3	11	3.543	3.613	-0.070
3	UB14	3.557	3.586	-0.029
3	UB16	3.667	3.561	0.106
3	UB18	3.571	3.662	-0.091
3	UB19	3.604	3.564	0.040
3	UB22	3.620	3.621	-0.001
10	23	3.576	3.554	0.022
10	24	3.620	3.490	0.130
10	25	3.663	3.646	0.017
10	28	3.539	3.619	-0.080
10	30	3.589	3.583	0.006
10	UB33	3.612	3.632	-0.020
10	UB35	3.583	3.543	0.040
10	UB36	3.528	3.624	-0.096
10	UB39	3.569	3.569	0.000
10	UB40	3.568	3.594	-0.026
30	43	3.540	3.824	-0.284
30	44	3.710	3.891	-0.181
30	48	3.612	3.771	-0.159
30	50	3.637	3.756	-0.119
30	52	3.477	3.792	-0.315
30	UB96	3.582	3.598	-0.016
30	UB98	3.535	3.604	-0.069
30	UB99	3.601	3.628	-0.027
30	UB101	3.603	3.625	-0.022
30	UB102	3.618	3.560	0.058
50	105	3.596	3.575	0.021
50	108	3.576	3.565	0.011
50	107	3.595	3.630	-0.035
50	111	3.537	3.450	0.087
50	113	3.585	3.548	0.037
50	114	3.588	3.627	-0.039
50	115	3.627	3.544	0.083
50	119	3.647	3.552	0.095
50	118	3.676	3.565	0.111
50	121	3.557	3.566	-0.009
50	124	3.533	3.562	-0.029
50	125	3.613	3.563	0.050
50	128	3.584	3.547	0.037
50	130	3.582	3.574	0.008
50	131	3.531	3.565	-0.034
50	133	3.662	3.615	0.047
50	134	3.608	3.539	0.069
50	135	3.601	3.586	0.015
50	137	3.601	3.575	0.026
50	298	3.572	3.602	-0.030
50	299	3.585	3.620	-0.035
50	UB293	3.521	3.573	-0.052
50	UB294	3.632	3.589	0.043
50	UB295	3.626	3.505	0.121
50	UB296	3.580	3.608	-0.028
50	UB297	3.552	3.589	-0.037
50	Max	3.710	3.891	0.169
50	Average	3.591	3.601	-0.010
50	Min	3.477	3.450	-0.315
50	Std Dev	0.044	0.077	0.088



3500.2_ICC_RECESSIVE_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

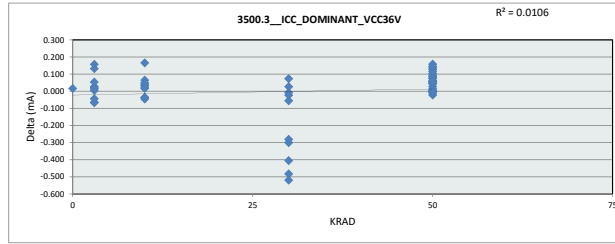
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.578	3.496	3.490	3.560	3.450
Average	3.578	3.595	3.585	3.705	3.571
Max	3.578	3.662	3.646	3.891	3.630
UL	5.950	5.950	5.950	5.950	5.950



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

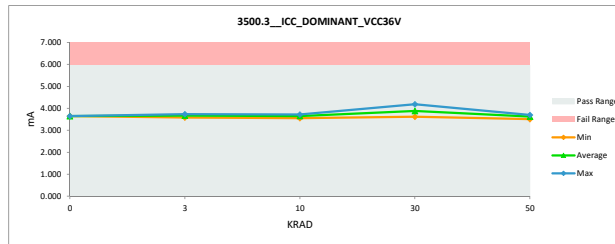
3500.3_ICC_DOMINANT_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.665	3.649	0.016
3	1	3.666	3.733	-0.067
3	2	3.690	3.663	0.027
3	3	3.686	3.681	0.005
3	6	3.739	3.582	0.157
3	11	3.630	3.694	-0.064
3	UB14	3.663	3.643	0.020
3	UB16	3.763	3.631	0.132
3	UB18	3.676	3.720	-0.044
3	UB19	3.695	3.642	0.053
3	UB22	3.715	3.701	0.014
10	23	3.686	3.621	0.065
10	24	3.720	3.554	0.166
10	25	3.762	3.721	0.041
10	28	3.628	3.674	-0.046
10	30	3.681	3.648	0.033
10	UB33	3.710	3.687	0.023
10	UB35	3.668	3.619	0.049
10	UB36	3.634	3.670	-0.036
10	UB39	3.653	3.637	0.016
10	UB40	3.631	3.667	-0.036
30	43	3.654	4.137	-0.483
30	44	3.777	4.183	-0.406
30	48	3.730	4.031	-0.301
30	50	3.730	4.011	-0.281
30	52	3.570	4.090	-0.520
30	UB96	3.649	3.657	-0.008
30	UB98	3.625	3.681	-0.056
30	UB99	3.703	3.677	0.026
30	UB101	3.672	3.695	-0.023
30	UB102	3.691	3.618	0.073
50	105	3.708	3.633	0.075
50	108	3.667	3.618	0.049
50	107	3.693	3.696	-0.003
50	111	3.636	3.510	0.126
50	113	3.701	3.598	0.103
50	114	3.674	3.696	-0.022
50	115	3.691	3.607	0.084
50	119	3.745	3.608	0.137
50	118	3.754	3.596	0.158
50	121	3.658	3.615	0.043
50	124	3.611	3.608	0.003
50	125	3.702	3.610	0.092
50	128	3.686	3.610	0.076
50	130	3.676	3.623	0.053
50	131	3.633	3.630	0.003
50	133	3.729	3.672	0.057
50	134	3.697	3.582	0.115
50	135	3.677	3.650	0.027
50	137	3.668	3.622	0.046
50	298	3.646	3.655	-0.009
50	299	3.695	3.681	0.014
50	UB293	3.622	3.625	-0.003
50	UB294	3.729	3.667	0.062
50	UB295	3.712	3.567	0.145
50	UB296	3.643	3.648	-0.005
50	UB297	3.637	3.640	-0.003
50	Max	3.777	4.183	0.166
50	Average	3.682	3.682	-0.001
50	Min	3.570	3.510	-0.520
50	Std Dev	0.042	0.136	0.140



3500.3_ICC_DOMINANT_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

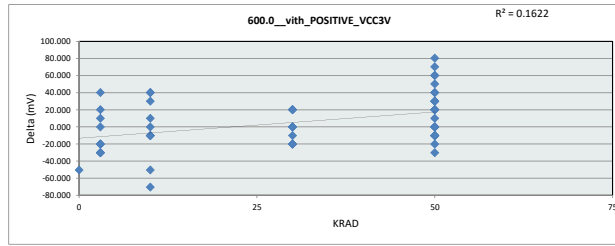
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	3.649	3.582	3.554	3.618	3.510
Average	3.649	3.669	3.650	3.678	3.626
Max	3.649	3.733	3.721	4.183	3.696
UL	5.950	5.950	5.950	5.950	5.950



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

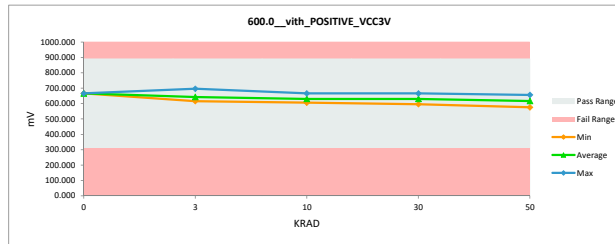
600.0_vith_POSITIVE_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	615.578	665.829	-50.251
3	1	665.829	695.980	-30.151
3	2	655.779	615.578	40.201
3	3	635.678	655.779	-20.101
3	6	635.678	615.578	20.100
3	11	615.578	635.678	-20.100
3	UB14	595.477	625.628	-30.151
3	UB16	625.628	645.729	-20.101
3	UB18	625.628	625.628	0.000
3	UB19	625.628	655.779	-30.151
3	UB22	665.829	655.779	10.050
10	23	635.678	625.628	-10.050
10	24	625.628	635.678	-10.050
10	25	665.829	625.628	40.201
10	28	595.477	605.528	-10.051
10	30	635.678	635.678	0.000
10	UB33	595.477	665.829	-70.352
10	UB35	595.477	645.729	-50.252
10	UB36	645.729	605.528	40.201
10	UB39	635.678	645.729	-10.051
10	UB40	635.678	605.528	30.150
30	43	645.729	665.829	-20.100
30	44	635.678	635.678	0.000
30	48	655.779	635.678	20.101
30	50	645.729	625.628	20.101
30	52	615.578	635.678	-20.100
30	UB96	605.528	615.578	-10.050
30	UB98	615.578	615.578	0.000
30	UB99	615.578	635.678	-20.100
30	UB101	595.477	595.477	0.000
30	UB102	655.779	635.678	20.101
50	105	655.779	595.477	60.302
50	108	615.578	625.628	-10.050
50	107	595.477	605.528	-10.051
50	111	635.678	605.528	30.150
50	113	615.578	615.578	0.000
50	114	625.628	655.779	-30.151
50	115	615.578	585.427	30.151
50	119	695.980	615.578	80.402
50	118	615.578	595.477	20.101
50	121	655.779	635.678	20.101
50	124	685.929	615.578	70.351
50	125	645.729	615.578	30.151
50	128	615.578	625.628	-10.050
50	130	625.628	645.729	-20.101
50	131	625.628	625.628	0.000
50	133	635.678	615.578	20.100
50	134	595.477	605.528	-10.051
50	135	625.628	615.578	10.050
50	137	665.829	645.729	20.100
50	298	645.729	585.427	60.302
50	299	645.729	595.477	50.252
50	UB293	615.578	575.377	40.201
50	UB294	645.729	645.729	0.000
50	UB295	655.779	615.578	40.201
50	UB296	615.578	625.628	-10.050
50	UB297	625.628	625.628	0.000
50	Max	695.980	695.980	80.402
50	Average	631.799	626.333	5.466
50	Min	595.477	575.377	-70.352
50	Std Dev	23.165	23.017	30.512



600.0_vith_POSITIVE_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	890	mV
Min Limit	310	mV

KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	665.829	615.578	605.528	595.477	575.377
Average	665.829	642.714	629.648	629.648	615.964
Max	665.829	695.980	665.829	665.829	655.779
UL	890.000	890.000	890.000	890.000	890.000

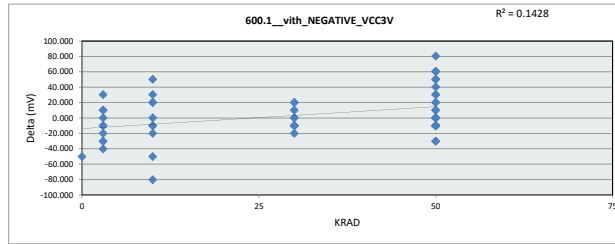


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

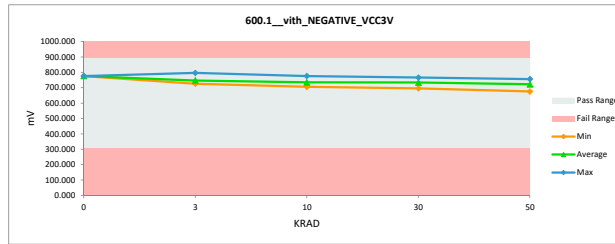
600.1_vith_NEGATIVE_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	726.131	776.382	-50.251
3	1	766.332	796.482	-30.150
3	2	756.282	726.131	30.151
3	3	746.231	756.282	-10.051
3	6	736.181	726.131	10.050
3	11	726.131	746.231	-20.100
3	UB14	695.980	726.131	-30.151
3	UB16	736.181	746.231	-10.050
3	UB18	726.131	726.131	0.000
3	UB19	726.131	766.332	-40.201
3	UB22	766.332	756.282	10.050
10	23	746.231	726.131	20.100
10	24	726.131	746.231	-20.100
10	25	776.382	726.131	50.251
10	28	706.030	706.030	0.000
10	30	736.181	746.231	-10.050
10	UB33	695.980	776.382	-80.402
10	UB35	695.980	746.231	-50.251
10	UB36	746.231	716.081	30.150
10	UB39	736.181	746.231	-10.050
10	UB40	736.181	716.081	20.100
30	43	756.282	766.332	-10.050
30	44	736.181	736.181	0.000
30	48	756.282	746.231	10.051
30	50	746.231	726.131	20.100
30	52	726.131	746.231	-20.100
30	UB96	716.081	726.131	-10.050
30	UB98	716.081	726.131	-10.050
30	UB99	726.131	736.181	-10.050
30	UB101	695.980	695.980	0.000
30	UB102	756.282	736.181	20.101
50	105	766.332	706.030	60.302
50	108	726.131	736.181	-10.050
50	107	706.030	716.081	-10.051
50	111	736.181	716.081	20.100
50	113	716.081	716.081	0.000
50	114	726.131	756.282	-30.151
50	115	716.081	685.929	30.152
50	119	796.482	716.081	80.401
50	118	716.081	706.030	10.051
50	121	756.282	736.181	20.101
50	124	786.432	726.131	60.301
50	125	746.231	716.081	30.150
50	128	726.131	726.131	0.000
50	130	726.131	756.282	-30.151
50	131	726.131	736.181	-10.050
50	133	736.181	726.131	10.050
50	134	706.030	716.081	-10.051
50	135	726.131	726.131	0.000
50	137	756.282	756.282	0.000
50	298	756.282	695.980	60.302
50	299	756.282	706.030	50.252
50	UB293	716.081	675.879	40.202
50	UB294	746.231	756.282	-10.051
50	UB295	766.332	716.081	50.251
50	UB296	726.131	736.181	-10.050
50	UB297	726.131	726.131	0.000
50	Max	796.482	796.482	80.401
50	Average	735.652	732.126	3.526
50	Min	695.980	675.879	-80.402
50	Std Dev	22.507	22.781	30.418



600.1_vith_NEGATIVE_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	890	mV
Min Limit	310	mV

KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	776.382	726.131	706.030	695.980	675.879
Average	776.382	747.236	735.176	734.171	722.652
Max	776.382	796.482	776.382	766.332	756.282
UL	890.000	890.000	890.000	890.000	890.000

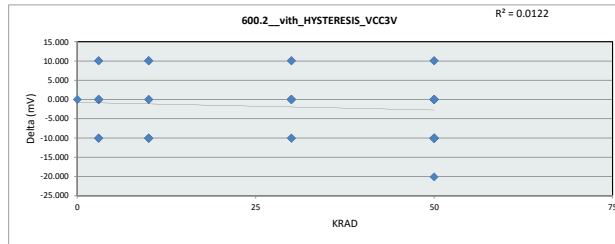


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

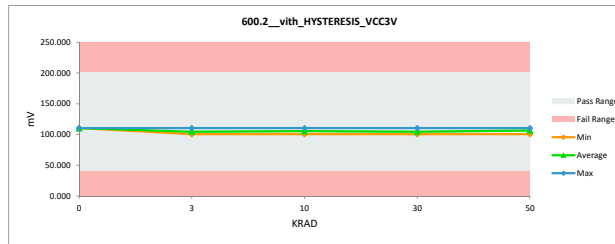
600.2_vith_HYSTERESIS_VCC3		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	200	200
Min Limit	40	40

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	110.553	110.553	0.000
3	1	100.503	100.503	0.000
3	2	100.503	110.553	-10.050
3	3	110.553	100.503	10.050
3	6	100.502	110.553	-10.051
3	11	110.553	110.553	0.000
3	UB14	100.502	100.502	0.000
3	UB16	110.553	100.503	10.050
3	UB18	100.502	100.502	0.000
3	UB19	100.502	110.553	-10.051
3	UB22	100.503	100.503	0.000
10	23	110.553	100.502	-10.051
10	24	100.502	110.553	-10.051
10	25	110.553	100.502	10.051
10	28	110.553	100.502	10.051
10	30	100.502	110.553	-10.051
10	UB33	100.502	110.553	-10.051
10	UB35	100.502	100.503	-0.001
10	UB36	100.503	110.553	-10.050
10	UB39	100.502	100.503	-0.001
10	UB40	100.502	110.553	-10.051
30	43	110.553	100.503	10.050
30	44	100.502	100.502	0.000
30	48	100.503	110.553	-10.050
30	50	100.503	100.502	0.001
30	52	110.553	110.553	0.000
30	UB96	110.553	110.553	0.000
30	UB98	100.503	110.553	-10.050
30	UB99	110.553	100.502	10.051
30	UB101	100.502	100.502	0.000
30	UB102	100.503	100.502	0.001
50	105	110.553	110.553	0.000
50	108	110.553	110.553	0.000
50	107	110.553	110.553	0.000
50	111	100.502	110.553	-10.051
50	113	100.503	100.503	0.000
50	114	100.502	100.503	-0.001
50	115	100.503	100.502	0.001
50	119	100.503	100.503	0.000
50	118	100.503	110.553	-10.050
50	121	100.503	100.502	0.001
50	124	100.503	110.553	-10.050
50	125	100.503	100.503	0.000
50	128	110.553	100.502	10.051
50	130	100.502	110.553	-10.051
50	131	100.502	110.553	-10.051
50	133	100.802	110.553	-10.051
50	134	110.553	110.553	0.000
50	135	100.502	110.553	-10.051
50	137	90.452	110.553	-20.101
50	298	110.553	110.553	0.000
50	299	110.553	110.553	0.000
50	UB293	100.503	100.502	0.001
50	UB294	100.503	110.553	-10.050
50	UB295	110.553	100.503	10.050
50	UB296	110.553	110.553	0.000
50	UB297	100.502	100.502	0.000
50	Max	110.553	110.553	10.051
50	Average	103.853	105.792	-1.940
50	Min	90.452	100.502	-20.101
50	Std Dev	5.144	5.063	7.217



600.2_vith_HYSTERESIS_VCC3		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	200	mV
Min Limit	40	mV

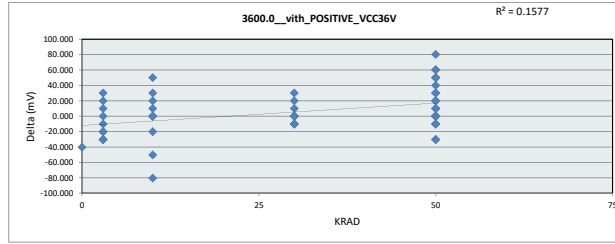
KRAD	0	3	10	30	50
LL	40.000	40.000	40.000	40.000	40.000
Min	110.553	100.502	100.502	100.502	100.502
Average	110.553	104.523	105.528	104.523	106.687
Max	110.553	110.553	110.553	110.553	110.553
UL	200.000	200.000	200.000	200.000	200.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

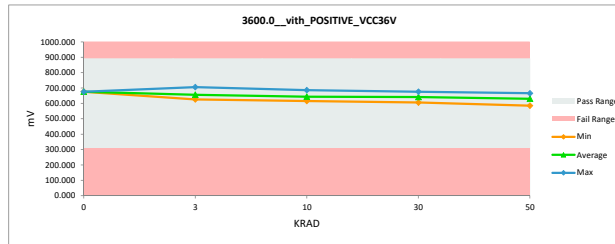
3600.0_vith_POSITIVE_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	635.678	675.879	-40.201
3	1	675.879	706.030	-30.151
3	2	665.829	635.678	30.151
3	3	645.729	665.829	-20.101
3	6	645.729	625.628	20.101
3	11	635.678	655.779	-20.101
3	UB14	605.528	635.678	-30.150
3	UB16	645.729	655.779	-10.050
3	UB18	635.678	635.678	0.000
3	UB19	645.729	675.879	-30.150
3	UB22	675.879	665.829	10.050
10	23	645.729	635.678	10.051
10	24	635.678	655.779	-20.101
10	25	685.929	635.678	50.251
10	28	615.578	615.578	0.000
10	30	645.729	645.729	0.000
10	UB33	605.528	685.929	-80.401
10	UB35	605.528	655.779	-50.251
10	UB36	655.779	625.628	30.151
10	UB39	655.779	655.779	0.000
10	UB40	645.729	625.628	20.101
30	43	665.829	675.879	-10.050
30	44	645.729	645.729	0.000
30	48	665.829	655.779	10.050
30	50	655.779	635.678	20.101
30	52	635.678	645.729	-10.051
30	UB96	625.628	625.628	0.000
30	UB98	635.678	635.678	0.000
30	UB99	635.678	645.729	-10.051
30	UB101	605.528	605.528	0.000
30	UB102	675.879	645.729	30.150
50	105	675.879	615.578	60.301
50	108	635.678	635.678	0.000
50	107	615.578	625.628	-10.050
50	111	645.729	625.628	20.101
50	113	625.628	625.628	0.000
50	114	635.678	665.829	-30.151
50	115	625.628	595.478	30.150
50	119	706.030	625.628	80.402
50	118	625.628	615.578	10.050
50	121	665.829	645.729	20.100
50	124	695.980	635.678	60.302
50	125	655.779	625.628	30.151
50	128	635.678	635.678	0.000
50	130	635.678	665.829	-30.151
50	131	635.678	645.729	-10.051
50	133	645.729	625.628	20.101
50	134	615.578	625.628	-10.050
50	135	635.678	625.628	10.050
50	137	675.879	665.829	10.050
50	298	655.779	605.528	50.251
50	299	655.779	605.528	50.251
50	UB293	625.628	585.427	40.201
50	UB294	655.779	655.779	0.000
50	UB295	675.879	625.628	50.251
50	UB296	635.678	635.678	0.000
50	UB297	635.678	635.678	0.000
50	Max	706.030	706.030	80.402
50	Average	645.376	639.734	5.642
50	Min	605.528	585.427	-80.401
50	Std Dev	22.470	22.701	29.364



3600.0_vith_POSITIVE_VCC36		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	890	mV
Min Limit	310	mV

KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	675.879	625.628	615.578	605.528	585.427
Average	675.879	655.779	643.719	641.709	629.880
Max	675.879	706.030	685.929	675.879	665.829
UL	890.000	890.000	890.000	890.000	890.000

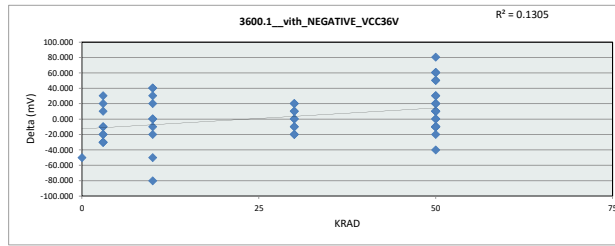


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

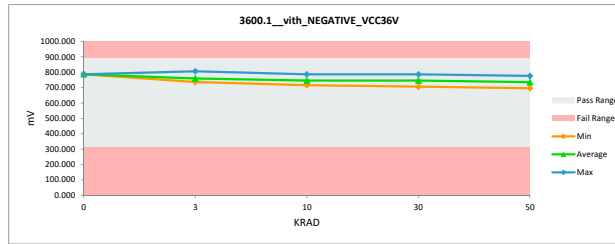
3600.1_vith_NEGATIVE_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	736.181	786.432	-50.251
3	1	776.382	806.533	-30.151
3	2	766.332	736.181	30.151
3	3	756.281	766.332	-10.051
3	6	746.231	736.181	10.050
3	11	736.181	756.281	-20.100
3	UB14	706.030	736.181	-30.151
3	UB16	746.231	766.332	-20.101
3	UB18	736.181	746.231	-10.050
3	UB19	746.231	776.382	-30.151
3	UB23	786.432	766.332	20.100
10	23	756.281	736.181	20.100
10	24	736.181	756.281	-20.100
10	25	786.432	746.231	40.201
10	28	716.080	716.080	0.000
10	30	746.231	756.281	-10.050
10	UB33	706.030	786.432	-80.402
10	UB35	706.030	756.281	-50.251
10	UB36	766.332	726.131	40.201
10	UB39	756.281	756.281	0.000
10	UB40	756.281	726.131	30.150
30	43	766.332	786.432	-20.100
30	44	746.231	746.231	0.000
30	48	766.332	756.281	10.051
30	50	756.281	736.181	20.100
30	52	736.181	756.281	-20.100
30	UB96	726.131	736.181	-10.050
30	UB98	736.181	736.181	0.000
30	UB99	736.181	746.231	-10.050
30	UB101	716.080	706.030	10.050
30	UB102	776.382	756.281	20.101
50	105	776.382	716.080	60.302
50	108	736.181	746.231	-10.050
50	107	716.080	726.131	-10.051
50	111	746.231	726.131	20.100
50	113	726.131	726.131	0.000
50	114	736.181	776.382	-40.201
50	115	726.131	695.980	30.151
50	119	816.583	736.181	80.402
50	118	726.131	716.080	10.051
50	121	776.382	756.281	20.101
50	124	796.482	736.181	60.301
50	125	756.281	736.181	20.100
50	128	736.181	746.231	-10.050
50	130	746.231	766.332	-20.101
50	131	736.181	746.231	-10.050
50	133	746.231	736.181	10.050
50	134	716.080	726.131	-10.051
50	135	746.231	736.181	10.050
50	137	776.382	766.332	10.050
50	298	766.332	706.030	60.302
50	299	766.332	716.080	50.252
50	UB293	726.131	695.980	30.151
50	UB294	756.281	766.332	-10.051
50	UB295	776.382	726.131	50.251
50	UB296	736.181	746.231	-10.050
50	UB297	736.181	736.181	0.000
50	Max	816.583	806.533	80.402
50	Average	747.994	744.115	3.879
50	Min	706.030	695.980	-80.402
50	Std Dev	23.503	22.929	30.315



3600.1_vith_NEGATIVE_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	890	mV
Min Limit	310	mV

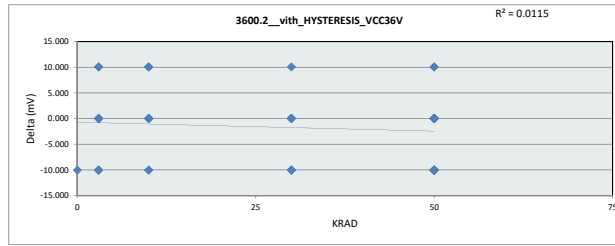
KRAD	0	3	10	30	50
LL	310.000	310.000	310.000	310.000	310.000
Min	786.432	736.181	716.080	706.030	695.980
Average	786.432	759.297	746.231	746.231	735.021
Max	786.432	806.533	786.432	786.432	776.382
UL	890.000	890.000	890.000	890.000	890.000



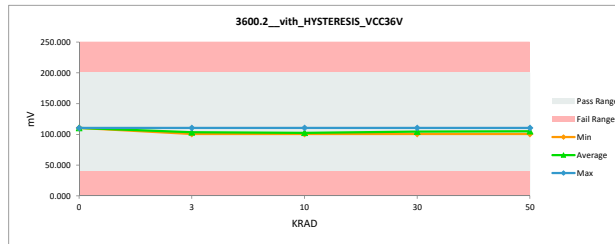
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3600.2_vith_HYSTERESIS_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	mV	mV
Max Limit	200	200
Min Limit	40	40

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	100.502	110.553	-10.051
3	1	100.503	100.503	0.000
3	2	100.503	100.502	0.001
3	3	110.553	100.503	10.050
3	6	100.503	110.553	-10.050
3	11	100.502	100.503	-0.001
3	UB14	100.503	100.502	0.001
3	UB16	100.503	110.553	-10.050
3	UB18	100.502	110.553	-10.051
3	UB19	100.503	100.503	0.000
3	UB22	110.553	100.503	10.050
10	23	110.553	100.502	10.051
10	24	100.502	100.503	-0.001
10	25	100.503	110.553	-10.050
10	28	100.503	100.503	0.000
10	30	100.503	110.553	-10.050
10	UB33	100.503	100.503	0.000
10	UB35	100.503	100.503	0.000
10	UB36	110.553	100.502	10.051
10	UB39	100.503	100.503	0.000
10	UB40	110.553	100.502	10.051
30	43	100.503	110.553	-10.050
30	44	100.503	100.503	0.000
30	48	100.503	100.503	0.000
30	50	100.503	100.502	0.001
30	52	100.502	110.553	-10.051
30	UB96	100.502	110.553	-10.051
30	UB98	100.502	100.502	0.000
30	UB99	100.502	100.503	-0.001
30	UB101	110.553	100.503	10.050
30	UB102	100.503	110.553	-10.050
50	105	100.503	100.503	0.000
50	108	100.502	110.553	-10.051
50	107	100.503	100.502	0.001
50	111	100.503	100.502	0.001
50	113	100.502	100.502	0.000
50	114	100.502	110.553	-10.051
50	115	100.502	100.502	0.000
50	119	110.553	110.553	0.000
50	118	100.502	100.503	-0.001
50	121	110.553	110.553	0.000
50	124	100.503	100.502	0.001
50	125	100.503	110.553	-10.050
50	128	100.502	110.553	-10.051
50	130	110.553	100.503	10.050
50	131	100.502	100.503	-0.001
50	133	100.803	110.553	-10.050
50	134	100.503	100.502	0.001
50	135	110.553	110.553	0.000
50	137	100.503	100.503	0.000
50	298	110.553	100.503	10.050
50	299	110.553	110.553	0.000
50	UB293	100.502	110.553	-10.051
50	UB294	100.503	110.553	-10.050
50	UB295	100.503	100.502	0.001
50	UB296	100.502	110.553	-10.051
50	UB297	100.502	100.502	0.000
50	Max	110.553	110.553	10.051
50	Average	102.618	104.382	-1.763
50	Min	100.502	100.502	-10.051
50	Std Dev	4.134	4.936	6.613



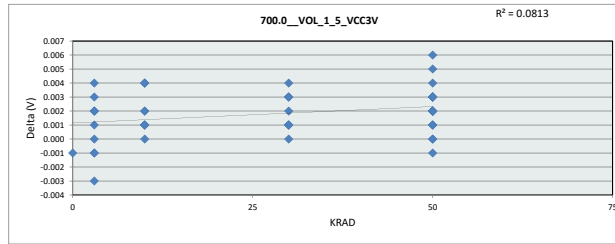
3600.2_vith_HYSTERESIS_VCC					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	200 mV				
Min Limit	40 mV				
KRAD	0	3	10	30	50
LL	40.000	40.000	40.000	40.000	40.000
Min	110.553	100.502	100.502	100.502	100.502
Average	110.553	103.518	102.513	104.523	105.141
Max	110.553	110.553	110.553	110.553	110.553
UL	200.000	200.000	200.000	200.000	200.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

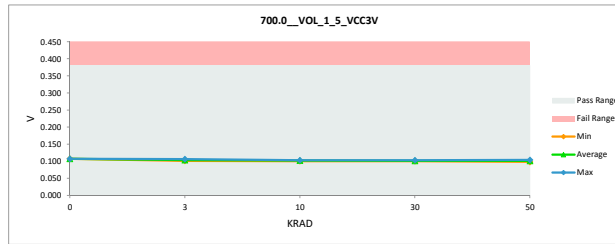
700.0_VOL_1_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	0.106	0.107	-0.001
3	1	0.105	0.103	0.002
3	2	0.103	0.101	0.002
3	3	0.106	0.102	0.004
3	6	0.104	0.105	-0.001
3	11	0.104	0.104	0.000
3	UB14	0.104	0.101	0.003
3	UB16	0.103	0.106	-0.003
3	UB18	0.104	0.103	0.001
3	UB19	0.104	0.105	-0.001
3	UB22	0.105	0.103	0.002
10	23	0.106	0.102	0.004
10	24	0.104	0.100	0.004
10	25	0.104	0.103	0.001
10	28	0.102	0.102	0.000
10	30	0.104	0.103	0.001
10	UB33	0.104	0.103	0.001
10	UB35	0.103	0.102	0.001
10	UB36	0.104	0.100	0.004
10	UB39	0.104	0.102	0.002
10	UB40	0.105	0.103	0.002
30	43	0.102	0.102	0.000
30	44	0.102	0.101	0.001
30	48	0.103	0.101	0.002
30	50	0.104	0.101	0.003
30	52	0.106	0.103	0.003
30	UB96	0.102	0.101	0.001
30	UB98	0.102	0.101	0.001
30	UB99	0.104	0.100	0.004
30	UB101	0.102	0.101	0.001
30	UB102	0.103	0.100	0.003
50	105	0.107	0.101	0.006
50	108	0.104	0.101	0.003
50	107	0.101	0.102	-0.001
50	111	0.104	0.104	0.000
50	113	0.103	0.100	0.003
50	114	0.103	0.101	0.002
50	115	0.103	0.101	0.002
50	119	0.104	0.101	0.003
50	118	0.103	0.100	0.003
50	121	0.102	0.101	0.001
50	124	0.103	0.101	0.002
50	125	0.103	0.101	0.002
50	128	0.103	0.102	0.001
50	130	0.103	0.101	0.002
50	131	0.104	0.101	0.003
50	133	0.104	0.102	0.002
50	134	0.103	0.101	0.002
50	135	0.103	0.102	0.001
50	137	0.102	0.102	0.000
50	298	0.104	0.101	0.003
50	299	0.103	0.101	0.002
50	UB293	0.103	0.101	0.002
50	UB294	0.105	0.102	0.003
50	UB295	0.104	0.100	0.004
50	UB296	0.102	0.099	0.003
50	UB297	0.103	0.098	0.005
50	Max	0.107	0.107	0.006
50	Average	0.104	0.102	0.002
50	Min	0.101	0.098	-0.003
50	Std Dev	0.001	0.002	0.002



700.0_VOL_1_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	0.38	V
Min Limit	0	V

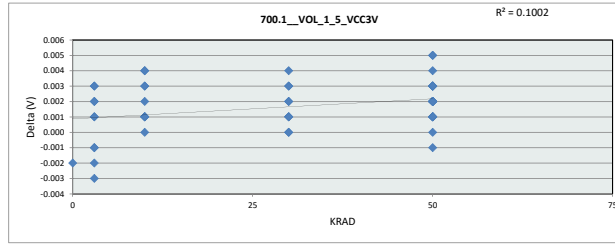
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.107	0.101	0.100	0.100	0.098
Average	0.107	0.106	0.102	0.101	0.101
Max	0.107	0.106	0.103	0.103	0.104
UL	0.380	0.380	0.380	0.380	0.380



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

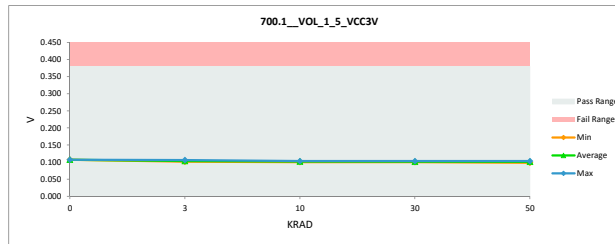
700.1_VOL_1_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.105	0.107	-0.002
3	1	0.104	0.103	0.001
3	2	0.103	0.101	0.002
3	3	0.105	0.102	0.003
3	6	0.104	0.105	-0.001
3	11	0.103	0.104	-0.001
3	UB14	0.104	0.101	0.003
3	UB16	0.103	0.106	-0.003
3	UB18	0.104	0.103	0.001
3	UB19	0.103	0.105	-0.002
3	UB22	0.105	0.103	0.002
10	23	0.105	0.102	0.003
10	24	0.104	0.100	0.004
10	25	0.104	0.103	0.001
10	28	0.102	0.102	0.000
10	30	0.104	0.103	0.001
10	UB33	0.104	0.102	0.002
10	UB35	0.103	0.102	0.001
10	UB36	0.104	0.100	0.004
10	UB39	0.103	0.102	0.001
10	UB40	0.105	0.102	0.003
30	43	0.102	0.102	0.000
30	44	0.102	0.101	0.001
30	48	0.103	0.101	0.002
30	50	0.103	0.101	0.002
30	52	0.106	0.103	0.003
30	UB96	0.102	0.101	0.001
30	UB98	0.102	0.101	0.001
30	UB99	0.104	0.100	0.004
30	UB101	0.101	0.101	0.000
30	UB102	0.103	0.100	0.003
50	105	0.106	0.101	0.005
50	108	0.103	0.101	0.002
50	107	0.101	0.102	-0.001
50	111	0.104	0.103	0.001
50	113	0.102	0.100	0.002
50	114	0.103	0.101	0.002
50	115	0.103	0.101	0.002
50	119	0.104	0.101	0.003
50	118	0.103	0.100	0.003
50	121	0.102	0.101	0.001
50	124	0.102	0.101	0.001
50	125	0.102	0.101	0.001
50	128	0.103	0.102	0.001
50	130	0.103	0.101	0.002
50	131	0.104	0.101	0.003
50	133	0.104	0.102	0.002
50	134	0.103	0.100	0.003
50	135	0.103	0.102	0.001
50	137	0.102	0.102	0.000
50	298	0.103	0.100	0.003
50	299	0.103	0.101	0.002
50	UB293	0.103	0.101	0.002
50	UB294	0.104	0.102	0.002
50	UB295	0.104	0.100	0.004
50	UB296	0.102	0.099	0.003
50	UB297	0.103	0.098	0.005
50	Max	0.106	0.107	0.005
50	Average	0.103	0.102	0.002
50	Min	0.101	0.098	-0.003
50	Std Dev	0.001	0.002	0.002



700.1_VOL_1_5_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	0.38	V
Min Limit	0	V

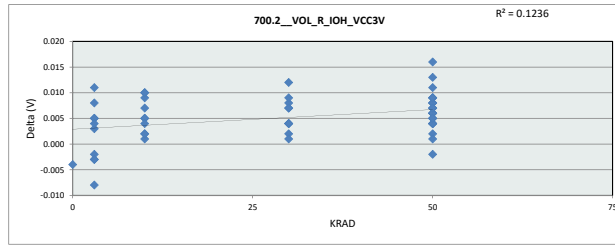
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.107	0.101	0.100	0.100	0.098
Average	0.107	0.103	0.102	0.101	0.101
Max	0.107	0.106	0.102	0.103	0.103
UL	0.380	0.380	0.380	0.380	0.380



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

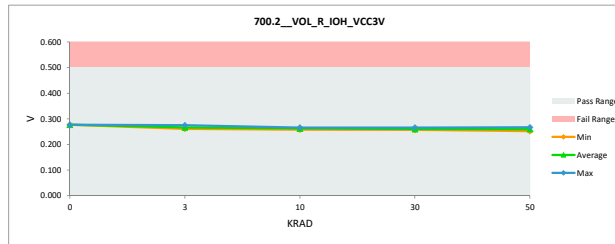
700.2 VOL_R IOH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.273	0.277	-0.004
3	1	0.270	0.265	0.005
3	2	0.266	0.261	0.005
3	3	0.273	0.262	0.011
3	6	0.268	0.271	-0.003
3	11	0.267	0.269	-0.002
3	UB14	0.269	0.261	0.008
3	UB16	0.267	0.275	-0.008
3	UB18	0.268	0.265	0.003
3	UB19	0.267	0.270	-0.003
3	UB22	0.271	0.267	0.004
10	23	0.273	0.263	0.010
10	24	0.267	0.258	0.009
10	25	0.270	0.265	0.005
10	28	0.263	0.262	0.001
10	30	0.268	0.266	0.002
10	UB33	0.269	0.264	0.005
10	UB35	0.265	0.263	0.002
10	UB36	0.268	0.258	0.010
10	UB39	0.267	0.263	0.004
10	UB40	0.271	0.264	0.007
30	43	0.263	0.261	0.002
30	44	0.264	0.260	0.004
30	48	0.267	0.260	0.007
30	50	0.267	0.259	0.008
30	52	0.275	0.266	0.009
30	UB96	0.264	0.260	0.004
30	UB98	0.264	0.260	0.004
30	UB99	0.269	0.257	0.012
30	UB101	0.262	0.261	0.001
30	UB102	0.265	0.258	0.007
50	105	0.275	0.259	0.016
50	108	0.267	0.260	0.007
50	107	0.260	0.262	-0.002
50	111	0.269	0.267	0.002
50	113	0.265	0.258	0.007
50	114	0.265	0.260	0.005
50	115	0.266	0.260	0.006
50	119	0.268	0.259	0.009
50	118	0.266	0.258	0.008
50	121	0.264	0.260	0.004
50	124	0.265	0.259	0.006
50	125	0.265	0.261	0.004
50	128	0.266	0.262	0.004
50	130	0.266	0.260	0.006
50	131	0.268	0.259	0.009
50	133	0.268	0.263	0.005
50	134	0.266	0.258	0.008
50	135	0.266	0.262	0.004
50	137	0.264	0.263	0.001
50	298	0.267	0.259	0.008
50	299	0.266	0.260	0.006
50	UB293	0.265	0.260	0.005
50	UB294	0.270	0.263	0.007
50	UB295	0.267	0.258	0.009
50	UB296	0.264	0.253	0.011
50	UB297	0.265	0.252	0.013
50	Max	0.275	0.277	0.016
50	Average	0.267	0.262	0.005
50	Min	0.260	0.252	-0.008
50	Std Dev	0.003	0.004	0.004



700.2 VOL_R IOH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	0.5	V
Min Limit	0	V

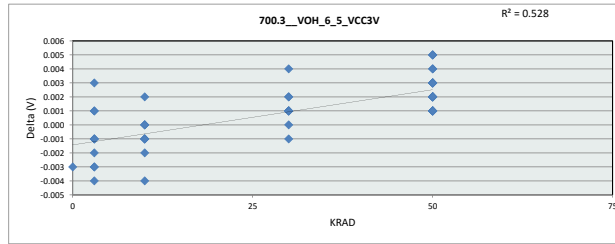
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.277	0.261	0.258	0.257	0.252
Average	0.277	0.275	0.263	0.260	0.260
Max	0.277	0.275	0.266	0.266	0.267
UL	0.500	0.500	0.500	0.500	0.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

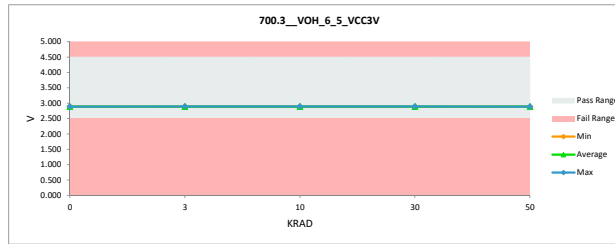
700.3_VOH_6_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	2.887	2.890	-0.003
3	1	2.888	2.891	-0.003
3	2	2.889	2.893	-0.004
3	3	2.888	2.889	-0.001
3	6	2.888	2.889	-0.001
3	11	2.889	2.888	0.001
3	UB14	2.889	2.892	-0.003
3	UB16	2.891	2.888	0.003
3	UB18	2.890	2.891	-0.001
3	UB19	2.889	2.888	0.001
3	UB22	2.888	2.890	-0.002
10	23	2.888	2.889	-0.001
10	24	2.891	2.891	0.000
10	25	2.888	2.889	-0.001
10	28	2.891	2.889	0.002
10	30	2.888	2.889	-0.001
10	UB33	2.890	2.891	-0.001
10	UB35	2.891	2.891	0.000
10	UB36	2.888	2.892	-0.004
10	UB39	2.889	2.889	0.000
10	UB40	2.888	2.890	-0.002
30	43	2.890	2.888	0.002
30	44	2.891	2.891	0.000
30	48	2.890	2.888	0.002
30	50	2.889	2.888	0.001
30	52	2.888	2.887	0.001
30	UB96	2.891	2.887	0.004
30	UB98	2.889	2.888	0.001
30	UB99	2.888	2.889	-0.001
30	UB101	2.890	2.889	0.001
30	UB102	2.890	2.889	0.001
50	105	2.890	2.888	0.002
50	108	2.889	2.887	0.002
50	107	2.891	2.887	0.004
50	111	2.889	2.886	0.003
50	113	2.889	2.887	0.002
50	114	2.889	2.888	0.001
50	115	2.889	2.887	0.002
50	119	2.889	2.887	0.002
50	118	2.890	2.889	0.001
50	121	2.890	2.887	0.003
50	124	2.890	2.887	0.003
50	125	2.889	2.886	0.003
50	128	2.890	2.885	0.005
50	130	2.890	2.888	0.002
50	131	2.889	2.888	0.001
50	133	2.888	2.886	0.002
50	134	2.890	2.887	0.003
50	135	2.891	2.886	0.005
50	137	2.891	2.886	0.005
50	298	2.890	2.889	0.001
50	299	2.888	2.887	0.001
50	UB293	2.889	2.888	0.001
50	UB294	2.889	2.887	0.002
50	UB295	2.890	2.886	0.004
50	UB296	2.890	2.887	0.003
50	UB297	2.889	2.888	0.001
50	Max	2.891	2.893	0.005
50	Average	2.889	2.888	0.001
50	Min	2.887	2.885	-0.004
50	Std Dev	0.001	0.002	0.002



700.3_VOH_6_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	4.5	V
Min Limit	2.5	V

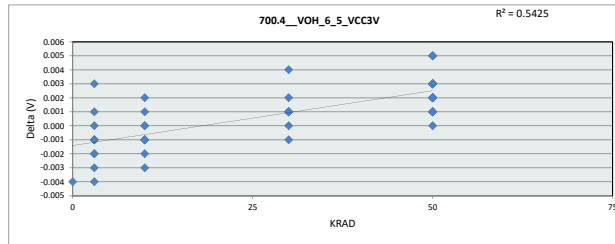
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	2.890	2.888	2.889	2.887	2.885
Average	2.890	2.890	2.890	2.888	2.887
Max	2.890	2.893	2.892	2.891	2.889
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

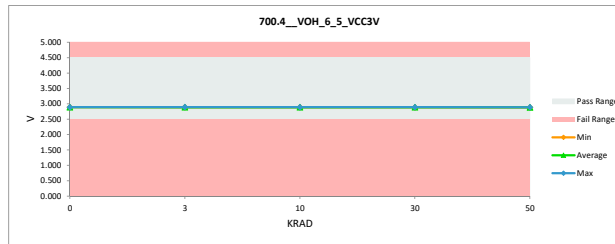
700.4_VOH_6_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	2.887	2.891	-0.004
3	1	2.889	2.891	-0.002
3	2	2.889	2.893	-0.004
3	3	2.888	2.889	-0.001
3	6	2.888	2.889	-0.001
3	11	2.890	2.889	0.001
3	UB14	2.889	2.892	-0.003
3	UB16	2.891	2.888	0.003
3	UB18	2.890	2.891	-0.001
3	UB19	2.889	2.889	0.000
3	UB22	2.888	2.890	-0.002
10	23	2.888	2.889	-0.001
10	24	2.891	2.891	0.000
10	25	2.888	2.889	-0.001
10	28	2.891	2.889	0.002
10	30	2.888	2.889	-0.001
10	UB33	2.890	2.891	-0.001
10	UB35	2.891	2.891	0.000
10	UB36	2.889	2.892	-0.003
10	UB39	2.890	2.889	0.001
10	UB40	2.888	2.890	-0.002
30	43	2.890	2.888	0.002
30	44	2.891	2.891	0.000
30	48	2.890	2.889	0.001
30	50	2.889	2.888	0.001
30	52	2.888	2.887	0.001
30	UB96	2.891	2.887	0.004
30	UB98	2.889	2.888	0.001
30	UB99	2.888	2.889	-0.001
30	UB101	2.890	2.889	0.001
30	UB102	2.890	2.889	0.001
50	105	2.890	2.888	0.002
50	108	2.890	2.887	0.003
50	107	2.891	2.888	0.003
50	111	2.889	2.886	0.003
50	113	2.889	2.887	0.002
50	114	2.889	2.888	0.001
50	115	2.889	2.887	0.002
50	119	2.890	2.887	0.003
50	118	2.890	2.889	0.001
50	121	2.890	2.887	0.003
50	124	2.890	2.887	0.003
50	125	2.889	2.886	0.003
50	128	2.890	2.885	0.005
50	130	2.890	2.888	0.002
50	131	2.890	2.888	0.002
50	133	2.889	2.886	0.003
50	134	2.890	2.887	0.003
50	135	2.891	2.886	0.005
50	137	2.891	2.886	0.005
50	298	2.891	2.890	0.001
50	299	2.888	2.887	0.001
50	UB293	2.889	2.889	0.000
50	UB294	2.889	2.887	0.002
50	UB295	2.890	2.887	0.003
50	UB296	2.890	2.888	0.002
50	UB297	2.889	2.888	0.001
50	Max	2.891	2.893	0.005
50	Average	2.889	2.889	0.001
50	Min	2.887	2.885	-0.004
50	Std Dev	0.001	0.002	0.002



700.4_VOH_6_5_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	4.5	V
Min Limit	2.5	V

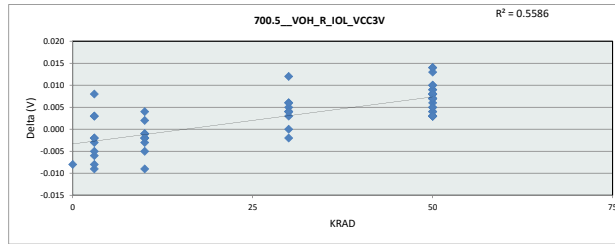
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	2.891	2.888	2.889	2.887	2.885
Average	2.891	2.890	2.890	2.889	2.887
Max	2.891	2.893	2.892	2.891	2.890
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

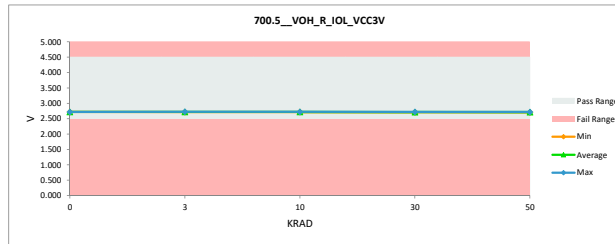
700.5_VOH_R_IOL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	2.712	2.720	-0.008
3	1	2.715	2.721	-0.006
3	2	2.718	2.727	-0.009
3	3	2.714	2.717	-0.003
3	6	2.715	2.717	-0.002
3	11	2.718	2.715	0.003
3	UB14	2.716	2.724	-0.008
3	UB16	2.721	2.713	0.008
3	UB18	2.719	2.721	-0.002
3	UB19	2.718	2.715	0.003
3	UB22	2.714	2.719	-0.005
10	23	2.714	2.716	-0.002
10	24	2.721	2.722	-0.001
10	25	2.714	2.717	-0.003
10	28	2.721	2.717	0.004
10	30	2.715	2.717	-0.002
10	UB33	2.719	2.721	-0.002
10	UB35	2.721	2.722	-0.001
10	UB36	2.715	2.724	-0.009
10	UB39	2.718	2.716	0.002
10	UB40	2.714	2.719	-0.005
30	43	2.720	2.714	0.006
30	44	2.721	2.721	0.000
30	48	2.719	2.715	0.004
30	50	2.717	2.714	0.003
30	52	2.715	2.710	0.005
30	UB96	2.723	2.711	0.012
30	UB98	2.718	2.712	0.006
30	UB99	2.714	2.716	-0.002
30	UB101	2.720	2.716	0.004
30	UB102	2.719	2.715	0.004
50	105	2.720	2.714	0.006
50	108	2.718	2.710	0.008
50	107	2.722	2.712	0.010
50	111	2.716	2.708	0.008
50	113	2.716	2.712	0.004
50	114	2.717	2.714	0.003
50	115	2.718	2.711	0.007
50	119	2.718	2.710	0.008
50	118	2.720	2.716	0.004
50	121	2.720	2.711	0.009
50	124	2.719	2.710	0.009
50	125	2.716	2.709	0.007
50	128	2.720	2.706	0.014
50	130	2.720	2.713	0.007
50	131	2.718	2.715	0.003
50	133	2.715	2.708	0.007
50	134	2.719	2.711	0.008
50	135	2.721	2.708	0.013
50	137	2.721	2.707	0.014
50	298	2.721	2.718	0.003
50	299	2.714	2.711	0.003
50	UB293	2.718	2.715	0.003
50	UB294	2.716	2.711	0.005
50	UB295	2.719	2.709	0.010
50	UB296	2.719	2.712	0.007
50	UB297	2.717	2.712	0.005
50	Max	2.723	2.727	0.014
50	Average	2.718	2.715	0.003
50	Min	2.712	2.706	-0.009
50	Std Dev	0.003	0.005	0.006



700.5_VOH_R_IOL_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	4.5	V
Min Limit	2.5	V

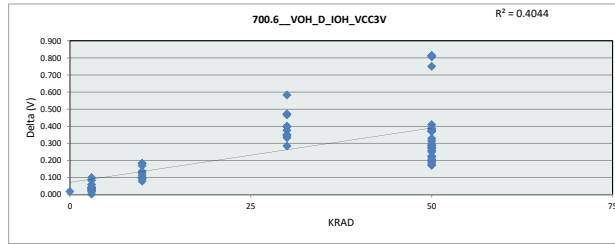
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	2.720	2.713	2.716	2.710	2.706
Average	2.720	2.719	2.714	2.714	2.711
Max	2.720	2.727	2.724	2.721	2.718
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

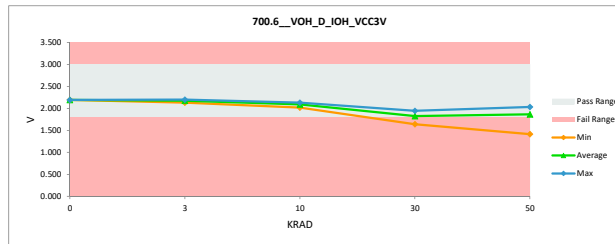
700.6_VOH_D_IOH_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3	
Min Limit	1.8	1.8

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	2.214	2.195	0.019
3	1	2.202	2.170	0.032
3	2	2.215	2.179	0.036
3	3	2.205	2.202	0.003
3	6	2.234	2.133	0.101
3	11	2.220	2.176	0.044
3	UB14	2.215	2.190	0.025
3	UB16	2.228	2.168	0.060
3	UB18	2.221	2.203	0.018
3	UB19	2.233	2.148	0.085
3	UB22	2.232	2.187	0.045
10	23	2.205	2.021	0.184
10	24	2.223	2.039	0.184
10	25	2.228	2.058	0.170
10	28	2.213	2.111	0.102
10	30	2.231	2.104	0.127
10	UB33	2.223	2.110	0.113
10	UB35	2.237	2.100	0.137
10	UB36	2.221	2.125	0.096
10	UB39	2.211	2.132	0.079
10	UB40	2.217	2.122	0.095
30	43	2.224	1.641	0.583
30	44	2.235	1.858	0.377
30	48	2.210	1.876	0.334
30	50	2.238	1.887	0.351
30	52	2.208	1.741	0.467
30	UB96	2.220	1.747	0.473
30	UB98	2.232	1.947	0.285
30	UB99	2.239	1.841	0.398
30	UB101	2.235	1.890	0.345
30	UB102	2.226	1.825	0.401
50	105	2.182	1.984	0.198
50	108	2.235	1.956	0.279
50	107	2.229	1.956	0.273
50	111	2.224	1.814	0.410
50	113	2.223	1.972	0.251
50	114	2.220	1.848	0.372
50	115	2.237	1.858	0.379
50	119	2.216	1.827	0.389
50	118	2.236	1.977	0.259
50	121	2.218	1.944	0.274
50	124	2.229	1.939	0.290
50	125	2.209	2.019	0.190
50	128	2.224	1.934	0.290
50	130	2.238	1.939	0.299
50	131	2.232	2.012	0.220
50	133	2.236	2.010	0.226
50	134	2.238	1.908	0.330
50	135	2.228	1.857	0.371
50	137	2.225	1.909	0.316
50	298	2.204	2.032	0.172
50	299	2.212	2.034	0.178
50	UB293	2.228	2.022	0.206
50	UB294	2.236	1.423	0.813
50	UB295	2.221	1.414	0.807
50	UB296	2.236	1.423	0.813
50	UB297	2.228	1.417	0.811
50	Max	2.239	2.203	0.813
50	Average	2.223	1.958	0.265
50	Min	2.182	1.414	0.003
50	Std Dev	0.012	0.197	0.200



700.6_VOH_D_IOH_VCC3V		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	3	V
Min Limit	1.8	V

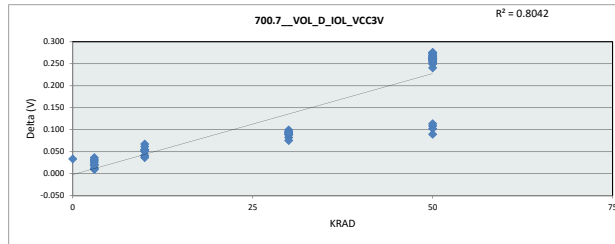
KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.195	2.133	2.021	1.641	1.414
Average	2.195	2.176	2.092	1.825	1.865
Max	2.195	2.203	2.132	1.947	2.034
UL	3.000	3.000	3.000	3.000	3.000



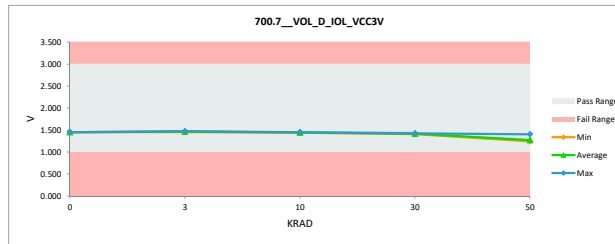
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

700.7 VOL D IOL VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3	3
Min Limit	1	1

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	1.483	1.450	0.033
3	1	1.484	1.466	0.018
3	2	1.486	1.465	0.021
3	3	1.491	1.455	0.036
3	6	1.481	1.470	0.011
3	11	1.483	1.457	0.026
3	UB14	1.487	1.458	0.029
3	UB16	1.487	1.475	0.012
3	UB18	1.492	1.460	0.032
3	UB19	1.483	1.474	0.009
3	UB22	1.482	1.462	0.020
10	23	1.491	1.451	0.040
10	24	1.495	1.445	0.050
10	25	1.485	1.449	0.036
10	28	1.492	1.441	0.051
10	30	1.494	1.440	0.054
10	UB33	1.499	1.445	0.054
10	UB35	1.488	1.447	0.041
10	UB36	1.494	1.440	0.054
10	UB39	1.505	1.438	0.067
10	UB40	1.500	1.439	0.061
30	43	1.506	1.424	0.082
30	44	1.496	1.421	0.075
30	48	1.506	1.417	0.089
30	50	1.505	1.417	0.088
30	52	1.516	1.417	0.099
30	UB96	1.506	1.417	0.089
30	UB98	1.501	1.406	0.095
30	UB99	1.505	1.411	0.094
30	UB101	1.500	1.411	0.089
30	UB102	1.507	1.415	0.092
50	105	1.523	1.248	0.275
50	108	1.502	1.253	0.249
50	107	1.512	1.252	0.260
50	111	1.515	1.251	0.264
50	113	1.513	1.250	0.263
50	114	1.526	1.254	0.272
50	115	1.517	1.252	0.265
50	119	1.524	1.256	0.268
50	118	1.516	1.252	0.264
50	121	1.510	1.252	0.258
50	124	1.514	1.246	0.268
50	125	1.520	1.247	0.273
50	128	1.517	1.242	0.275
50	130	1.510	1.254	0.256
50	131	1.510	1.250	0.260
50	133	1.508	1.249	0.259
50	134	1.512	1.247	0.265
50	135	1.507	1.248	0.259
50	137	1.485	1.245	0.240
50	298	1.502	1.249	0.253
50	299	1.509	1.247	0.262
50	UB293	1.504	1.248	0.256
50	UB294	1.493	1.404	0.089
50	UB295	1.500	1.392	0.108
50	UB296	1.493	1.391	0.102
50	UB297	1.504	1.391	0.113
50	Max	1.526	1.475	0.275
50	Average	1.501	1.364	0.137
50	Min	1.481	1.242	0.009
50	Std Dev	0.012	0.094	0.103



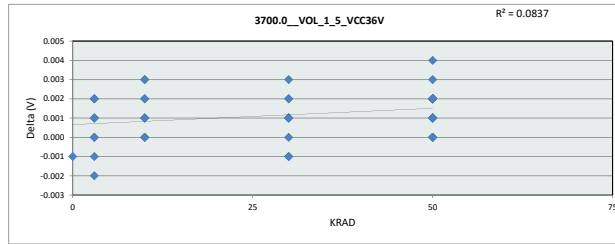
700.7_VOL_D_IOL_VCC3V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	3	V			
Min Limit	1	V			
KRAD	0	3	10	30	50
LL	1.000	1.000	1.000	1.000	1.000
Min	1.450	1.455	1.438	1.406	1.242
Average	1.450	1.464	1.444	1.416	1.272
Max	1.450	1.475	1.451	1.424	1.404
UL	3.000	3.000	3.000	3.000	3.000



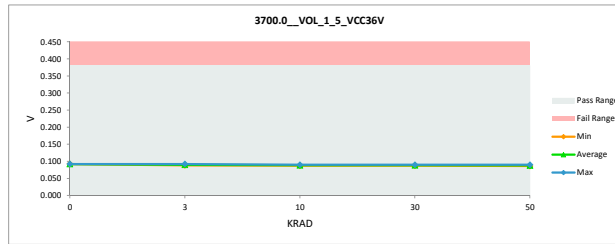
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3700.0_VOL_1_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.091	0.092	-0.001
3	1	0.091	0.089	0.002
3	2	0.089	0.088	0.001
3	3	0.091	0.089	0.002
3	6	0.090	0.091	-0.001
3	11	0.090	0.090	0.000
3	UB14	0.090	0.088	0.002
3	UB16	0.090	0.092	-0.002
3	UB18	0.090	0.089	0.001
3	UB19	0.090	0.090	0.000
3	UB22	0.091	0.090	0.001
10	23	0.091	0.089	0.002
10	24	0.090	0.087	0.003
10	25	0.090	0.089	0.001
10	28	0.088	0.088	0.000
10	30	0.090	0.090	0.000
10	UB33	0.090	0.089	0.001
10	UB35	0.089	0.089	0.000
10	UB36	0.090	0.087	0.003
10	UB39	0.090	0.089	0.001
10	UB40	0.091	0.089	0.002
30	43	0.089	0.090	-0.001
30	44	0.089	0.088	0.001
30	48	0.090	0.089	0.001
30	50	0.090	0.088	0.002
30	52	0.092	0.090	0.002
30	UB96	0.089	0.089	0.000
30	UB98	0.089	0.088	0.001
30	UB99	0.090	0.087	0.003
30	UB101	0.088	0.089	-0.001
30	UB102	0.089	0.088	0.001
50	105	0.092	0.088	0.004
50	108	0.090	0.088	0.002
50	107	0.088	0.088	0.000
50	111	0.090	0.090	0.000
50	113	0.089	0.087	0.002
50	114	0.089	0.088	0.001
50	115	0.090	0.088	0.002
50	119	0.090	0.088	0.002
50	118	0.089	0.087	0.002
50	121	0.089	0.088	0.001
50	124	0.089	0.088	0.001
50	125	0.089	0.088	0.001
50	128	0.090	0.088	0.002
50	130	0.090	0.088	0.002
50	131	0.090	0.088	0.002
50	133	0.090	0.089	0.001
50	134	0.090	0.088	0.002
50	135	0.090	0.088	0.002
50	137	0.089	0.089	0.000
50	298	0.090	0.088	0.002
50	299	0.089	0.088	0.001
50	UB293	0.089	0.088	0.001
50	UB294	0.090	0.090	0.000
50	UB295	0.090	0.088	0.002
50	UB296	0.089	0.087	0.002
50	UB297	0.089	0.086	0.003
50	Max	0.092	0.092	0.004
50	Average	0.090	0.089	0.001
50	Min	0.088	0.086	-0.002
50	Std Dev	0.001	0.001	0.001



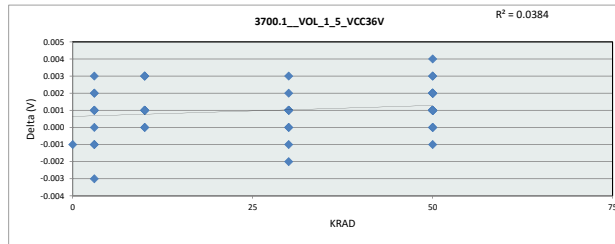
3700.0_VOL_1_5_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.38	V			
Min Limit	0	V			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.092	0.088	0.087	0.087	0.086
Average	0.092	0.090	0.089	0.089	0.088
Max	0.092	0.092	0.090	0.090	0.090
UL	0.380	0.380	0.380	0.380	0.380



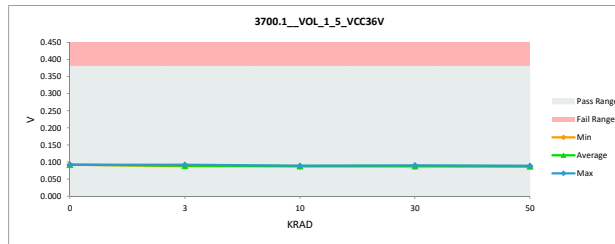
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

3700.1_VOL_1_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.091	0.092	-0.001
3	1	0.090	0.089	0.001
3	2	0.089	0.088	0.001
3	3	0.091	0.088	0.003
3	6	0.090	0.090	0.000
3	11	0.089	0.090	-0.001
3	UB14	0.090	0.088	0.002
3	UB16	0.089	0.092	-0.003
3	UB18	0.090	0.089	0.001
3	UB19	0.089	0.090	-0.001
3	UB22	0.091	0.089	0.002
10	23	0.091	0.088	0.003
10	24	0.090	0.087	0.003
10	25	0.090	0.089	0.001
10	28	0.088	0.088	0.000
10	30	0.090	0.089	0.001
10	UB33	0.090	0.089	0.001
10	UB35	0.089	0.089	0.000
10	UB36	0.090	0.087	0.003
10	UB39	0.089	0.088	0.001
10	UB40	0.090	0.089	0.001
30	43	0.088	0.090	-0.002
30	44	0.089	0.088	0.001
30	48	0.089	0.088	0.001
30	50	0.089	0.088	0.001
30	52	0.091	0.090	0.001
30	UB96	0.088	0.089	-0.001
30	UB98	0.088	0.088	0.000
30	UB99	0.090	0.087	0.003
30	UB101	0.088	0.088	0.000
30	UB102	0.089	0.087	0.002
50	105	0.092	0.088	0.004
50	108	0.089	0.088	0.001
50	107	0.087	0.088	-0.001
50	111	0.090	0.089	0.001
50	113	0.088	0.087	0.001
50	114	0.089	0.088	0.001
50	115	0.089	0.088	0.001
50	119	0.090	0.088	0.002
50	118	0.089	0.087	0.002
50	121	0.088	0.088	0.000
50	124	0.089	0.088	0.001
50	125	0.088	0.088	0.000
50	128	0.089	0.088	0.001
50	130	0.089	0.088	0.001
50	131	0.089	0.087	0.002
50	133	0.090	0.088	0.002
50	134	0.089	0.087	0.002
50	135	0.089	0.088	0.001
50	137	0.088	0.088	0.000
50	298	0.090	0.087	0.003
50	299	0.089	0.088	0.001
50	UB293	0.089	0.088	0.001
50	UB294	0.090	0.089	0.001
50	UB295	0.089	0.087	0.002
50	UB296	0.088	0.086	0.002
50	UB297	0.089	0.086	0.003
50	Max	0.092	0.092	0.004
50	Average	0.089	0.088	0.001
50	Min	0.087	0.086	-0.003
50	Std Dev	0.001	0.001	0.001



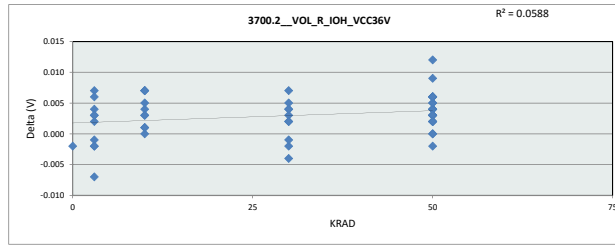
3700.1_VOL_1_5_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	0.38	V			
Min Limit	0	V			
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.092	0.088	0.087	0.087	0.086
Average	0.092	0.089	0.088	0.088	0.088
Max	0.092	0.092	0.089	0.090	0.089
UL	0.380	0.380	0.380	0.380	0.380



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

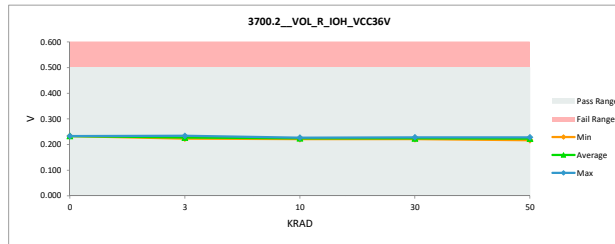
3700.2_VOL_R_IOH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	0.231	0.233	-0.002
3	1	0.230	0.226	0.004
3	2	0.226	0.223	0.003
3	3	0.231	0.224	0.007
3	6	0.228	0.230	-0.002
3	11	0.228	0.229	-0.001
3	UB14	0.229	0.223	0.006
3	UB16	0.227	0.234	-0.007
3	UB18	0.228	0.226	0.002
3	UB19	0.227	0.229	-0.002
3	UB22	0.230	0.227	0.003
10	23	0.231	0.224	0.007
10	24	0.228	0.221	0.007
10	25	0.229	0.226	0.003
10	28	0.224	0.224	0.000
10	30	0.228	0.227	0.001
10	UB33	0.229	0.225	0.004
10	UB35	0.226	0.225	0.001
10	UB36	0.228	0.221	0.007
10	UB39	0.228	0.225	0.003
10	UB40	0.230	0.225	0.005
30	43	0.224	0.228	-0.004
30	44	0.225	0.223	0.002
30	48	0.227	0.224	0.003
30	50	0.227	0.222	0.005
30	52	0.232	0.228	0.004
30	UB96	0.224	0.226	-0.002
30	UB98	0.225	0.223	0.002
30	UB99	0.228	0.221	0.007
30	UB101	0.223	0.224	-0.001
30	UB102	0.226	0.222	0.004
50	105	0.234	0.222	0.012
50	108	0.227	0.223	0.004
50	107	0.222	0.224	-0.002
50	111	0.228	0.228	0.000
50	113	0.225	0.221	0.004
50	114	0.226	0.223	0.003
50	115	0.227	0.223	0.004
50	119	0.228	0.222	0.006
50	118	0.226	0.221	0.005
50	121	0.225	0.223	0.002
50	124	0.225	0.222	0.003
50	125	0.225	0.223	0.002
50	128	0.226	0.224	0.002
50	130	0.227	0.223	0.004
50	131	0.228	0.222	0.006
50	133	0.228	0.225	0.003
50	134	0.227	0.222	0.005
50	135	0.227	0.224	0.003
50	137	0.225	0.225	0.000
50	298	0.228	0.222	0.006
50	299	0.226	0.223	0.003
50	UB293	0.226	0.223	0.003
50	UB294	0.229	0.227	0.002
50	UB295	0.228	0.222	0.006
50	UB296	0.225	0.219	0.006
50	UB297	0.226	0.217	0.009
50	Max	0.234	0.234	0.012
50	Average	0.227	0.224	0.003
50	Min	0.222	0.217	-0.007
50	Std Dev	0.002	0.003	0.003



3700.2_VOL_R_IOH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	0.5	V
Min Limit	0	V

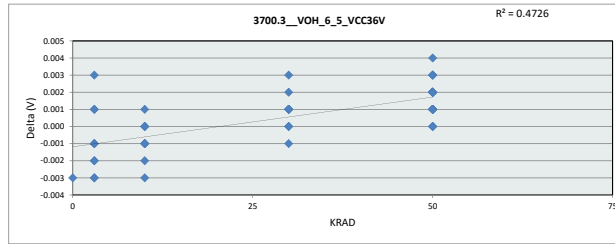
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	0.233	0.223	0.221	0.221	0.217
Average	0.233	0.227	0.224	0.224	0.223
Max	0.233	0.234	0.227	0.228	0.228
UL	0.500	0.500	0.500	0.500	0.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

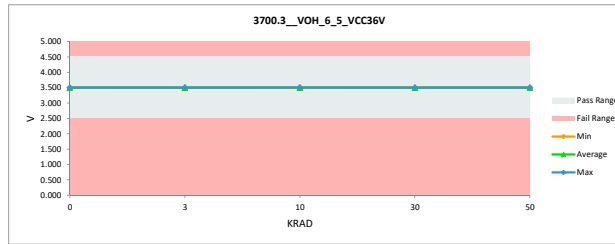
3700.3_VOH_6_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.501	3.504	-0.003
3	1	3.502	3.504	-0.002
3	2	3.503	3.506	-0.003
3	3	3.502	3.503	-0.001
3	6	3.502	3.503	-0.001
3	11	3.503	3.502	0.001
3	UB14	3.502	3.505	-0.003
3	UB16	3.504	3.501	0.003
3	UB18	3.503	3.504	-0.001
3	UB19	3.503	3.502	0.001
3	UB22	3.502	3.504	-0.002
10	23	3.502	3.503	-0.001
10	24	3.504	3.504	0.000
10	25	3.502	3.503	-0.001
10	28	3.504	3.503	0.001
10	30	3.502	3.503	-0.001
10	UB33	3.503	3.504	-0.001
10	UB35	3.504	3.504	0.000
10	UB36	3.502	3.505	-0.003
10	UB39	3.503	3.503	0.000
10	UB40	3.502	3.504	-0.002
30	43	3.503	3.501	0.002
30	44	3.504	3.504	0.000
30	48	3.503	3.502	0.001
30	50	3.503	3.502	0.001
30	52	3.502	3.501	0.001
30	UB96	3.504	3.501	0.003
30	UB98	3.503	3.502	0.001
30	UB99	3.502	3.503	-0.001
30	UB101	3.504	3.503	0.001
30	UB102	3.503	3.503	0.000
50	105	3.503	3.502	0.001
50	108	3.503	3.501	0.002
50	107	3.504	3.502	0.002
50	111	3.503	3.501	0.002
50	113	3.503	3.502	0.001
50	114	3.503	3.502	0.001
50	115	3.503	3.501	0.002
50	119	3.503	3.501	0.002
50	118	3.504	3.503	0.001
50	121	3.504	3.501	0.003
50	124	3.503	3.501	0.002
50	125	3.503	3.501	0.002
50	128	3.504	3.500	0.004
50	130	3.504	3.502	0.002
50	131	3.503	3.502	0.001
50	133	3.502	3.500	0.002
50	134	3.503	3.501	0.002
50	135	3.504	3.501	0.003
50	137	3.504	3.501	0.003
50	298	3.504	3.503	0.001
50	299	3.502	3.501	0.001
50	UB293	3.503	3.503	0.000
50	UB294	3.502	3.502	0.000
50	UB295	3.503	3.501	0.002
50	UB296	3.503	3.502	0.001
50	UB297	3.503	3.503	0.000
50	Max	3.504	3.506	0.004
50	Average	3.503	3.502	0.001
50	Min	3.501	3.500	-0.003
50	Std Dev	0.001	0.001	0.002



3700.3_VOH_6_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	4.5	V
Min Limit	2.5	V

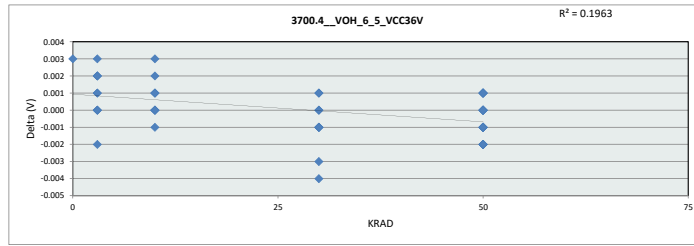
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	3.504	3.501	3.503	3.501	3.500
Average	3.504	3.506	3.504	3.504	3.502
Max	3.504	3.506	3.505	3.504	3.503
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

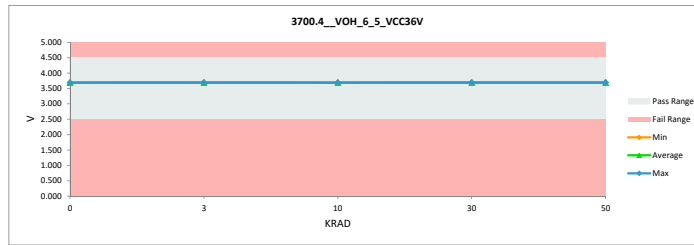
3700.4_VOH_6_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.694	3.691	0.003
3	1	3.694	3.692	0.002
3	2	3.693	3.690	0.003
3	3	3.694	3.693	0.001
3	6	3.694	3.693	0.001
3	11	3.693	3.693	0.000
3	UB14	3.693	3.691	0.002
3	UB16	3.692	3.694	-0.002
3	UB18	3.692	3.692	0.000
3	UB19	3.693	3.693	0.000
3	UB22	3.694	3.692	0.002
10	23	3.694	3.693	0.001
10	24	3.692	3.692	0.000
10	25	3.694	3.693	0.001
10	28	3.692	3.693	-0.001
10	30	3.693	3.693	0.000
10	UB33	3.693	3.692	0.001
10	UB35	3.692	3.692	0.000
10	UB36	3.694	3.691	0.003
10	UB39	3.693	3.693	0.000
10	UB40	3.694	3.692	0.002
30	43	3.692	3.695	-0.003
30	44	3.692	3.691	0.001
30	48	3.692	3.693	-0.001
30	50	3.693	3.693	0.000
30	52	3.694	3.694	0.000
30	UB96	3.691	3.695	-0.004
30	UB98	3.693	3.694	-0.001
30	UB99	3.694	3.693	0.001
30	UB101	3.692	3.693	-0.001
30	UB102	3.692	3.693	-0.001
50	105	3.693	3.692	0.001
50	108	3.693	3.693	0.000
50	107	3.691	3.693	-0.002
50	111	3.693	3.694	-0.001
50	113	3.693	3.693	0.000
50	114	3.693	3.692	0.001
50	115	3.693	3.693	0.000
50	119	3.693	3.693	0.000
50	118	3.692	3.692	0.000
50	121	3.692	3.693	-0.001
50	124	3.693	3.693	0.000
50	125	3.693	3.694	-0.001
50	128	3.692	3.694	-0.002
50	130	3.692	3.693	-0.001
50	131	3.693	3.692	0.001
50	133	3.693	3.694	-0.001
50	134	3.692	3.693	-0.001
50	135	3.692	3.694	-0.002
50	137	3.692	3.694	-0.002
50	298	3.692	3.691	0.001
50	299	3.694	3.693	0.001
50	UB293	3.693	3.692	0.001
50	UB294	3.693	3.694	-0.001
50	UB295	3.692	3.694	-0.002
50	UB296	3.692	3.694	-0.002
50	UB297	3.693	3.693	0.000
50	Max	3.694	3.695	0.003
50	Average	3.693	3.693	0.000
50	Min	3.691	3.690	-0.004
50	Std Dev	0.001	0.001	0.001



3700.4_VOH_6_5_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	4.5	V
Min Limit	2.5	V

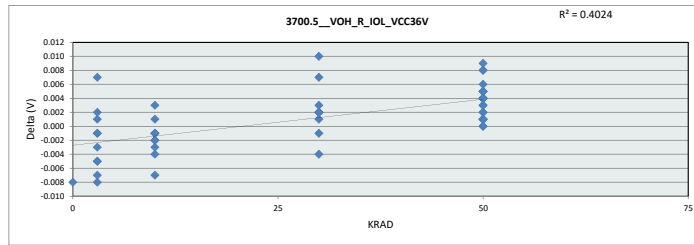
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	3.691	3.690	3.691	3.691	3.691
Average	3.691	3.692	3.692	3.693	3.693
Max	3.691	3.694	3.693	3.695	3.694
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

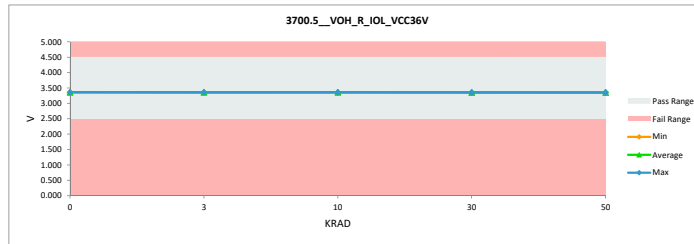
3700.5_VOH_R_IOL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	3.351	3.359	-0.008
3	1	3.353	3.358	-0.005
3	2	3.355	3.363	-0.008
3	3	3.353	3.354	-0.001
3	6	3.352	3.355	-0.003
3	11	3.355	3.354	0.001
3	UB14	3.353	3.360	-0.007
3	UB16	3.358	3.351	0.007
3	UB18	3.357	3.358	-0.001
3	UB19	3.355	3.353	0.002
3	UB22	3.352	3.357	-0.005
10	23	3.353	3.354	-0.001
10	24	3.358	3.359	-0.001
10	25	3.352	3.355	-0.003
10	28	3.358	3.355	0.003
10	30	3.353	3.355	-0.002
10	UB33	3.356	3.358	-0.002
10	UB35	3.358	3.359	-0.001
10	UB36	3.353	3.360	-0.007
10	UB39	3.355	3.354	0.001
10	UB40	3.353	3.357	-0.004
30	43	3.357	3.350	0.007
30	44	3.358	3.359	-0.001
30	48	3.356	3.354	0.002
30	50	3.354	3.353	0.001
30	52	3.353	3.351	0.002
30	UB96	3.359	3.349	0.010
30	UB98	3.355	3.352	0.003
30	UB99	3.352	3.356	-0.004
30	UB101	3.357	3.355	0.002
30	UB102	3.356	3.354	0.002
50	105	3.356	3.354	0.002
50	108	3.355	3.351	0.004
50	107	3.359	3.353	0.006
50	111	3.354	3.349	0.005
50	113	3.355	3.352	0.003
50	114	3.355	3.354	0.001
50	115	3.355	3.351	0.004
50	119	3.355	3.351	0.004
50	118	3.357	3.356	0.001
50	121	3.357	3.352	0.005
50	124	3.356	3.351	0.005
50	125	3.354	3.350	0.004
50	128	3.357	3.349	0.008
50	130	3.357	3.353	0.004
50	131	3.355	3.354	0.001
50	133	3.353	3.349	0.004
50	134	3.356	3.352	0.004
50	135	3.358	3.350	0.008
50	137	3.358	3.349	0.009
50	298	3.357	3.357	0.000
50	299	3.353	3.352	0.001
50	UB293	3.355	3.355	0.000
50	UB294	3.354	3.352	0.002
50	UB295	3.356	3.351	0.005
50	UB296	3.356	3.353	0.003
50	UB297	3.355	3.354	0.001
50	Max	3.359	3.363	0.010
50	Average	3.355	3.354	0.001
50	Min	3.351	3.349	-0.008
50	Std Dev	0.002	0.003	0.004



3700.5_VOH_R_IOL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	4.5	V
Min Limit	2.5	V

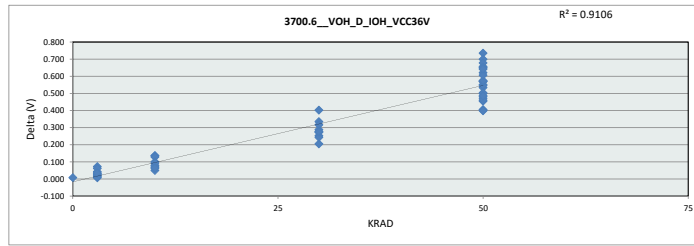
KRAD	0	3	10	30	50
LL	2.500	2.500	2.500	2.500	2.500
Min	3.359	3.351	3.354	3.349	3.349
Average	3.359	3.356	3.357	3.353	3.352
Max	3.359	3.363	3.360	3.359	3.357
UL	4.500	4.500	4.500	4.500	4.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

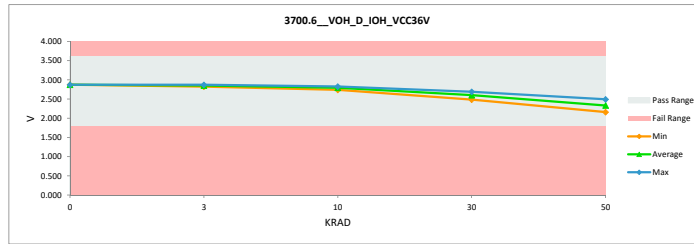
3700.6_VOH_D_IOH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3.6	3.6
Min Limit	1.8	1.8

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	2.875	2.872	0.007
3	1	2.871	2.849	0.022
3	2	2.880	2.855	0.025
3	3	2.873	2.867	0.006
3	6	2.896	2.824	0.072
3	11	2.884	2.853	0.031
3	UB14	2.880	2.864	0.016
3	UB16	2.891	2.849	0.042
3	UB18	2.884	2.873	0.011
3	UB19	2.895	2.834	0.061
3	UB22	2.895	2.861	0.034
10	23	2.873	2.739	0.134
10	24	2.886	2.750	0.136
10	25	2.891	2.763	0.128
10	28	2.878	2.799	0.079
10	30	2.894	2.794	0.100
10	UB33	2.886	2.811	0.075
10	UB35	2.897	2.805	0.092
10	UB36	2.886	2.852	0.064
10	UB39	2.877	2.828	0.049
10	UB40	2.883	2.820	0.063
30	43	2.887	2.485	0.402
30	44	2.897	2.609	0.288
30	48	2.876	2.624	0.252
30	50	2.899	2.626	0.273
30	52	2.877	2.542	0.335
30	UB96	2.886	2.570	0.316
30	UB98	2.894	2.689	0.205
30	UB99	2.900	2.625	0.275
30	UB101	2.897	2.654	0.243
30	UB102	2.889	2.613	0.276
50	105	2.853	2.370	0.483
50	108	2.897	2.162	0.735
50	107	2.892	2.341	0.551
50	111	2.889	2.190	0.699
50	113	2.888	2.354	0.534
50	114	2.885	2.237	0.648
50	115	2.898	2.242	0.656
50	119	2.884	2.206	0.678
50	118	2.897	2.350	0.547
50	121	2.882	2.313	0.569
50	124	2.892	2.320	0.572
50	125	2.876	2.405	0.471
50	128	2.887	2.318	0.569
50	130	2.899	2.325	0.574
50	131	2.895	2.396	0.499
50	133	2.898	2.395	0.503
50	134	2.899	2.278	0.621
50	135	2.891	2.239	0.652
50	137	2.888	2.282	0.606
50	298	2.872	2.418	0.454
50	299	2.879	2.419	0.460
50	UB293	2.891	2.406	0.485
50	UB294	2.897	2.256	0.641
50	UB295	2.885	2.480	0.405
50	UB296	2.897	2.495	0.402
50	UB297	2.891	2.493	0.398
50	Max	2.900	2.873	0.735
50	Average	2.887	2.562	0.325
50	Min	2.853	2.162	0.006
50	Std Dev	0.009	0.235	0.237



3700.6_VOH_D_IOH_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3.6	3.6
Min Limit	1.8	1.8

KRAD	0	3	10	30	50
LL	1.800	1.800	1.800	1.800	1.800
Min	2.872	2.824	2.739	2.485	2.162
Average	2.872	2.853	2.793	2.604	2.334
Max	2.872	2.873	2.828	2.689	2.495
UL	3.600	3.600	3.600	3.600	3.600

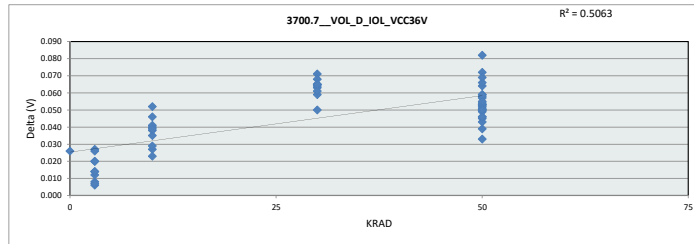


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

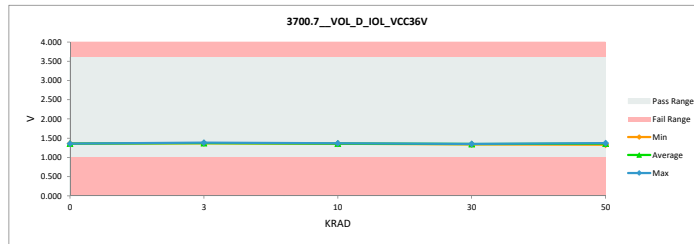
3700.7_VOL_D_IOL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	3.6	3.6
Min Limit	1	1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	1.385	1.359	0.026
3	1	1.387	1.375	0.012
3	2	1.389	1.375	0.014
3	3	1.393	1.366	0.027
3	6	1.385	1.377	0.008
3	11	1.386	1.366	0.020
3	UB14	1.390	1.370	0.020
3	UB16	1.390	1.384	0.006
3	UB18	1.395	1.369	0.026
3	UB19	1.387	1.380	0.007
3	UB22	1.386	1.372	0.014
10	23	1.393	1.366	0.027
10	24	1.398	1.363	0.035
10	25	1.389	1.366	0.023
10	28	1.396	1.358	0.038
10	30	1.398	1.358	0.040
10	UB33	1.403	1.362	0.041
10	UB35	1.393	1.364	0.029
10	UB36	1.397	1.358	0.039
10	UB39	1.408	1.356	0.052
10	UB40	1.404	1.358	0.046
30	43	1.410	1.351	0.059
30	44	1.400	1.350	0.050
30	48	1.409	1.346	0.063
30	50	1.410	1.346	0.064
30	52	1.416	1.345	0.071
30	UB96	1.410	1.345	0.065
30	UB98	1.405	1.337	0.068
30	UB99	1.408	1.343	0.065
30	UB101	1.404	1.343	0.061
30	UB102	1.411	1.346	0.065
50	105	1.426	1.362	0.064
50	108	1.407	1.368	0.039
50	107	1.417	1.367	0.050
50	111	1.419	1.366	0.053
50	113	1.416	1.364	0.052
50	114	1.428	1.369	0.059
50	115	1.420	1.367	0.053
50	119	1.428	1.371	0.057
50	118	1.420	1.367	0.053
50	121	1.412	1.366	0.046
50	124	1.419	1.361	0.058
50	125	1.421	1.362	0.059
50	128	1.421	1.355	0.066
50	130	1.414	1.369	0.045
50	131	1.414	1.365	0.049
50	133	1.414	1.363	0.051
50	134	1.415	1.361	0.054
50	135	1.413	1.363	0.050
50	137	1.392	1.359	0.033
50	298	1.406	1.363	0.043
50	299	1.412	1.362	0.050
50	UB293	1.409	1.363	0.046
50	UB294	1.397	1.342	0.055
50	UB295	1.403	1.331	0.072
50	UB296	1.398	1.329	0.069
50	UB297	1.411	1.329	0.082
50	Max	1.428	1.384	0.082
50	Average	1.405	1.360	0.045
50	Min	1.385	1.329	0.066
50	Std Dev	0.012	0.012	0.019



3700.7_VOL_D_IOL_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	3.6	V
Min Limit	1	V

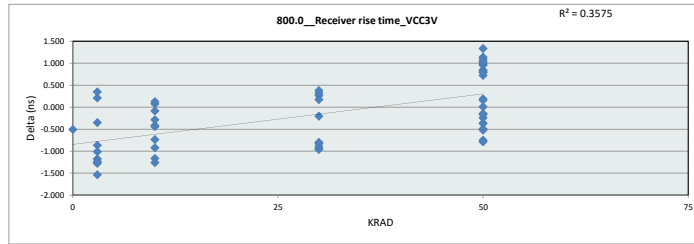
KRAD	0	3	10	30	50
LL	1.000	1.000	1.000	1.000	1.000
Min	1.359	1.366	1.356	1.337	1.329
Average	1.359	1.373	1.361	1.345	1.359
Max	1.359	1.384	1.366	1.351	1.371
UL	3.600	3.600	3.600	3.600	3.600



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

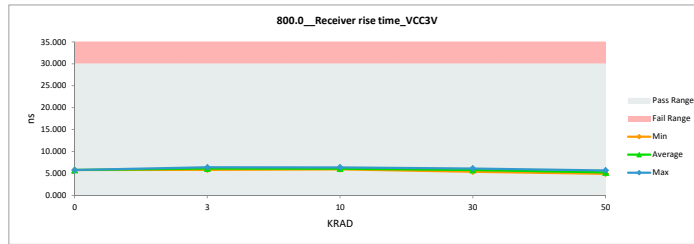
800.0_Receiver rise time_VCC3		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Unit	ns	
Max Limit	30	
Min Limit	0	

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	5.288	5.798	-0.510
3	1	5.021	6.201	-1.180
3	2	5.153	6.406	-1.253
3	3	5.727	6.080	-0.353
3	6	4.884	6.166	-1.282
3	11	6.125	5.920	0.205
3	UB14	4.877	6.415	-1.538
3	UB16	5.081	5.953	-0.872
3	UB18	5.161	6.177	-1.016
3	UB19	6.186	5.843	0.343
3	UB22	5.024	6.264	-1.240
10	23	5.727	6.148	-0.421
10	24	6.258	6.186	0.072
10	25	4.878	6.047	-1.169
10	28	5.256	5.994	-0.738
10	30	6.070	5.947	0.123
10	UB33	5.859	6.147	-0.288
10	UB35	6.138	6.227	-0.089
10	UB36	5.941	6.366	-0.445
10	UB39	5.047	5.971	-0.924
10	UB40	4.770	6.033	-1.263
30	43	5.025	5.857	-0.832
30	44	5.168	6.130	-0.962
30	48	6.102	5.840	0.262
30	50	4.893	5.848	-0.955
30	52	5.925	5.754	0.171
30	UB96	5.210	5.418	-0.208
30	UB98	6.121	5.749	0.372
30	UB99	4.946	5.844	-0.898
30	UB101	4.949	5.754	-0.805
30	UB102	6.085	5.775	0.310
50	105	5.027	5.397	-0.370
50	108	6.169	5.066	1.103
50	107	5.208	5.203	0.005
50	111	4.855	5.010	-0.155
50	113	6.081	5.129	0.952
50	114	6.182	5.218	0.964
50	115	6.088	5.249	0.839
50	119	5.026	5.190	-0.164
50	118	5.105	5.472	-0.367
50	121	6.235	5.103	1.132
50	124	5.324	5.141	0.183
50	125	4.898	5.144	-0.246
50	128	6.316	4.984	1.332
50	130	6.255	5.254	1.001
50	131	6.140	5.350	0.790
50	133	6.103	5.050	1.053
50	134	5.037	5.195	-0.158
50	135	6.017	4.999	1.018
50	137	5.099	4.945	0.154
50	298	5.175	5.669	-0.494
50	299	5.902	5.077	0.825
50	UB293	6.162	5.444	0.718
50	UB294	4.924	5.677	-0.753
50	UB295	6.147	5.353	0.794
50	UB296	4.989	5.514	-0.525
50	UB297	4.902	5.692	-0.790
50	Max	6.316	6.415	1.332
50	Average	5.513	5.663	-0.150
50	Min	4.770	4.945	-1.538
50	Std Dev	0.542	0.441	0.772



800.0_Receiver rise time_VC		
Test Site	Junkins	
Tester	ETS10	
Test Number	EF580302	
Max Limit	30 ns	
Min Limit	0 ns	

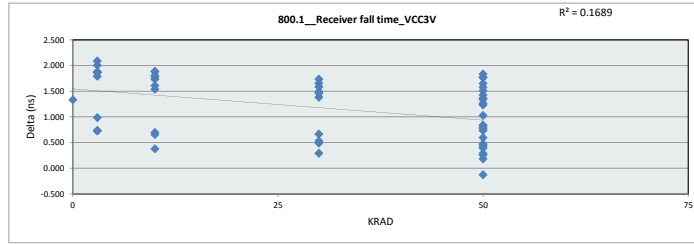
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	5.798	5.843	5.947	5.418	4.945
Average	5.798	6.143	6.109	5.797	5.251
Max	5.798	6.415	6.386	6.130	5.692
UL	30.000	30.000	30.000	30.000	30.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

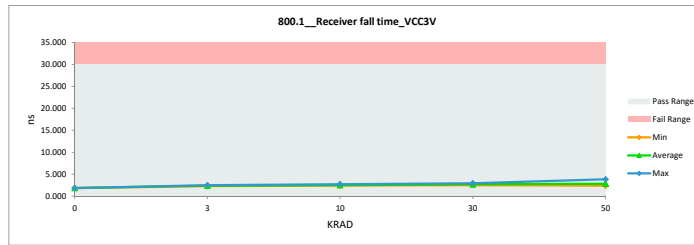
800.1_Receiver fall time_VCC3		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	30	30
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	3.198	1.865	1.333
3	1	4.310	2.441	1.869
3	2	4.314	2.523	1.791
3	3	3.159	2.436	0.723
3	6	4.413	2.322	2.091
3	11	4.153	2.284	1.869
3	UB14	3.217	2.482	0.735
3	UB16	4.336	2.331	2.005
3	UB18	4.375	2.496	1.879
3	UB19	3.263	2.276	0.987
3	UB22	4.254	2.387	1.867
10	23	3.159	2.463	0.696
10	24	4.279	2.741	1.538
10	25	4.200	2.422	1.778
10	28	3.181	2.525	0.656
10	30	4.044	2.436	1.608
10	UB33	4.365	2.480	1.885
10	UB35	4.255	2.524	1.731
10	UB36	3.111	2.732	0.379
10	UB39	4.356	2.472	1.884
10	UB40	4.300	2.493	1.807
30	43	4.251	2.599	1.652
30	44	4.287	2.797	1.490
30	48	3.216	2.728	0.488
30	50	4.383	2.799	1.584
30	52	3.191	2.525	0.666
30	UB96	3.155	2.623	0.532
30	UB98	4.203	2.821	1.382
30	UB99	4.399	2.938	1.461
30	UB101	4.427	2.693	1.734
30	UB102	3.121	2.829	0.292
50	105	4.154	2.730	1.424
50	108	3.245	2.856	0.389
50	107	3.198	2.601	0.597
50	111	4.241	2.408	1.833
50	113	4.165	3.140	1.025
50	114	3.387	2.654	0.733
50	115	4.255	2.744	1.511
50	119	4.170	2.807	1.363
50	118	4.382	3.149	1.233
50	121	4.379	2.613	1.766
50	124	4.240	2.976	1.264
50	125	4.266	2.616	1.650
50	128	4.244	2.469	1.775
50	130	3.785	2.954	0.831
50	131	3.208	2.919	0.289
50	133	3.406	2.633	0.773
50	134	3.177	2.996	0.181
50	135	3.290	2.452	0.838
50	137	3.277	2.486	0.791
50	298	3.325	2.870	0.455
50	299	3.165	2.689	0.476
50	UB293	4.188	2.849	1.339
50	UB294	4.330	2.755	1.575
50	UB295	3.112	3.239	-0.127
50	UB296	3.926	3.671	0.255
50	UB297	4.281	3.863	0.418
50	Max	4.427	3.863	2.091
50	Average	3.854	2.678	1.176
50	Min	3.111	1.865	-0.127
50	Std Dev	0.523	0.323	0.599



800.1_Receiver fall time_VCC3		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	30	ns
Min Limit	0	ns

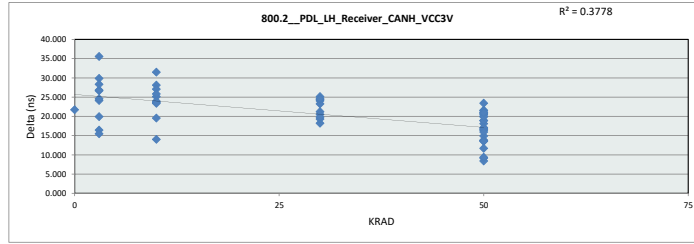
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	1.865	2.276	2.422	2.525	2.408
Average	1.865	2.398	2.529	2.735	2.852
Max	1.865	2.523	2.741	2.938	3.863
UL	30.000	30.000	30.000	30.000	30.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

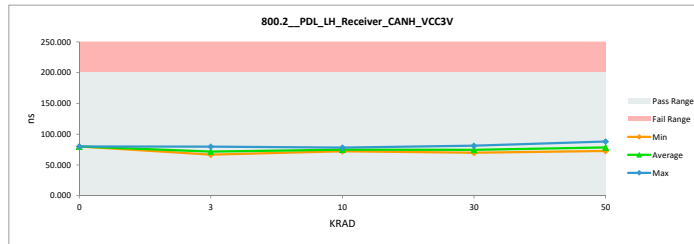
800.2_PDL_LH_Receiver_CANH		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	200	200
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	101.699	79.991	21.708
3	1	93.494	66.825	26.669
3	2	89.914	73.478	16.436
3	3	99.521	69.646	29.875
3	6	95.290	79.805	15.485
3	11	98.307	71.461	26.846
3	UB14	107.249	71.694	35.555
3	UB16	94.613	70.467	24.146
3	UB18	100.475	72.122	28.353
3	UB19	96.510	71.899	24.611
3	UB22	89.523	69.575	19.948
10	23	99.521	74.406	25.115
10	24	102.331	74.221	28.110
10	25	91.663	77.621	14.042
10	28	101.765	78.101	23.664
10	30	96.220	76.646	19.574
10	UB33	103.964	72.452	31.512
10	UB35	101.863	74.772	27.091
10	UB36	98.032	74.074	23.958
10	UB39	95.447	72.081	23.366
10	UB40	99.997	74.166	25.831
30	43	92.801	71.592	21.209
30	44	93.819	69.766	24.053
30	48	97.479	73.112	24.367
30	50	97.477	74.200	23.277
30	52	98.957	73.820	25.137
30	UB96	99.293	81.079	18.214
30	UB98	95.546	75.045	20.501
30	UB99	97.457	72.868	24.589
30	UB101	100.639	81.345	19.294
30	UB102	92.049	72.257	19.792
50	105	95.342	80.439	14.903
50	108	98.074	79.961	18.113
50	107	98.726	77.228	21.498
50	111	94.938	81.118	13.820
50	113	96.678	76.605	20.073
50	114	94.434	73.623	20.811
50	115	100.597	86.843	13.754
50	119	87.783	78.617	9.166
50	118	100.829	81.885	18.944
50	121	91.638	74.794	16.844
50	124	89.678	76.061	13.617
50	125	93.610	80.075	13.535
50	128	97.819	77.308	20.511
50	130	95.346	76.466	18.880
50	131	93.387	76.903	16.484
50	133	94.646	77.550	17.096
50	134	99.300	77.708	21.592
50	135	99.834	78.725	21.109
50	137	90.896	74.403	16.493
50	298	99.570	79.675	19.895
50	299	93.272	84.867	8.405
50	UB293	97.560	88.177	9.383
50	UB294	94.257	78.326	15.931
50	UB295	90.637	78.940	11.697
50	UB296	96.265	73.844	22.421
50	UB297	94.545	73.592	20.953
50	Max	107.249	88.177	35.555
50	Average	96.536	76.023	20.513
50	Min	87.783	66.825	8.405
50	Std Dev	3.971	4.314	5.587



800.2_PDL_LH_Receiver_CANH		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	200	ns
Min Limit	0	ns

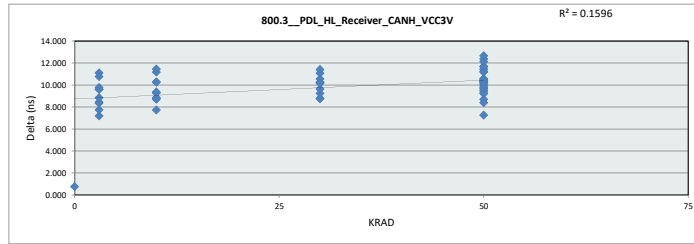
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	79.991	66.825	72.081	69.766	72.844
Average	79.991	71.697	74.854	74.508	78.567
Max	79.991	79.805	78.101	81.345	88.177
UL	200.000	200.000	200.000	200.000	200.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

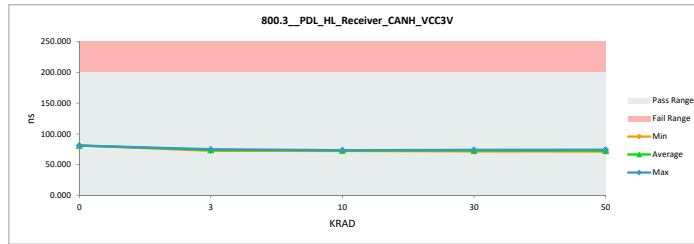
800.3_PDL_HL_Receiver_CANH		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	200	200
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	81.869	81.113	0.756
3	1	84.596	75.001	9.595
3	2	83.619	72.852	10.767
3	3	82.490	74.051	8.439
3	6	83.132	73.365	9.767
3	11	81.126	73.943	7.183
3	UB14	80.793	72.444	8.349
3	UB16	82.712	73.866	8.846
3	UB18	83.082	73.466	9.616
3	UB19	82.257	74.518	7.739
3	UB22	84.734	73.640	11.094
10	23	82.490	73.122	9.368
10	24	81.069	72.243	8.826
10	25	84.101	72.930	11.171
10	28	82.082	73.391	8.691
10	30	82.051	73.241	8.810
10	UB33	82.208	72.942	9.266
10	UB35	80.989	73.276	7.713
10	UB36	83.593	72.142	11.451
10	UB39	83.605	73.333	10.272
10	UB40	83.703	73.454	10.249
30	43	83.693	74.057	9.636
30	44	81.858	73.107	8.751
30	48	82.004	73.216	8.788
30	50	83.894	73.348	10.546
30	52	83.771	73.572	10.199
30	UB96	82.498	72.247	10.251
30	UB98	82.186	72.951	9.235
30	UB99	83.651	72.581	11.070
30	UB101	82.872	71.472	11.400
30	UB102	83.883	73.726	10.157
50	105	84.273	71.907	12.366
50	108	82.035	72.827	9.208
50	107	82.432	73.078	9.354
50	111	84.517	74.000	10.517
50	113	82.379	72.723	9.656
50	114	82.845	72.931	9.914
50	115	81.729	71.510	10.219
50	119	85.246	72.588	12.658
50	118	82.177	72.000	10.177
50	121	85.023	73.794	11.229
50	124	84.468	73.038	11.430
50	125	83.321	72.750	10.571
50	128	82.199	73.509	8.690
50	130	82.841	72.787	10.054
50	131	82.569	73.054	9.515
50	133	82.961	73.204	9.757
50	134	83.767	72.602	11.165
50	135	81.376	74.117	7.259
50	137	82.735	74.348	8.387
50	298	84.064	72.410	11.654
50	299	83.329	71.644	11.685
50	UB293	81.558	71.144	10.414
50	UB294	83.715	73.315	10.400
50	UB295	84.542	72.434	12.108
50	UB296	82.907	72.577	10.330
50	UB297	82.707	72.432	10.275
50	Max	85.246	81.113	12.658
50	Average	82.953	73.181	9.772
50	Min	80.793	71.144	0.756
50	Std Dev	1.079	1.321	1.731



800.3_PDL_HL_Receiver_CANH		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	200	ns
Min Limit	0	ns

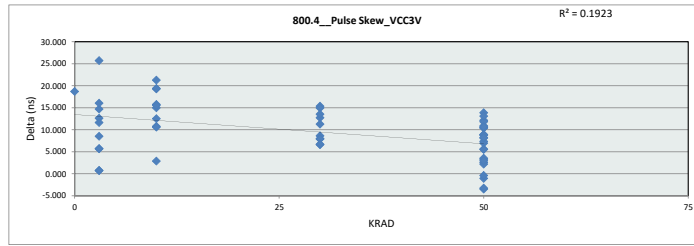
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	81.113	72.444	72.142	71.472	71.144
Average	81.113	75.001	73.007	73.028	72.797
Max	81.113	75.001	73.454	74.057	74.348
UL	200.000	200.000	200.000	200.000	200.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

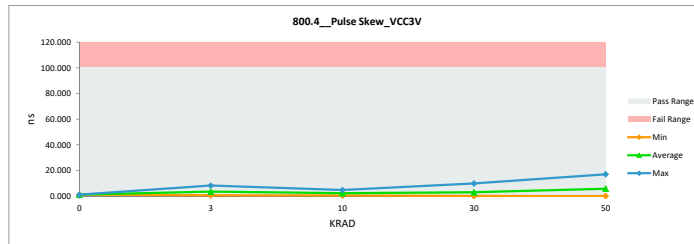
800.4_Pulse Skew_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	100	100
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	19.830	1.122	18.708
3	1	8.898	8.175	0.723
3	2	6.294	0.626	5.668
3	3	17.031	4.404	12.627
3	6	12.158	6.440	5.718
3	11	17.181	2.482	14.699
3	UB14	26.456	0.749	25.707
3	UB16	11.901	3.400	8.501
3	UB18	17.393	1.344	16.049
3	UB19	14.253	2.619	11.634
3	UB22	4.789	4.065	0.724
10	23	17.031	1.284	15.747
10	24	21.263	1.978	19.285
10	25	7.562	4.691	2.871
10	28	19.683	4.710	14.973
10	30	14.169	3.405	10.764
10	UB33	21.756	0.491	21.265
10	UB35	20.874	1.496	19.378
10	UB36	14.439	1.932	12.507
10	UB39	11.842	1.253	10.589
10	UB40	16.294	0.712	15.582
30	43	9.108	2.466	6.642
30	44	11.961	3.341	8.620
30	48	15.476	0.104	15.372
30	50	13.583	0.852	12.731
30	52	15.186	0.248	14.938
30	UB96	16.795	8.832	7.963
30	UB98	13.360	2.094	11.266
30	UB99	13.806	0.287	13.519
30	UB101	17.767	9.873	7.894
30	UB102	8.167	1.469	6.698
50	105	11.069	8.532	2.537
50	108	16.039	7.134	8.905
50	107	16.294	4.150	12.144
50	111	10.421	7.118	3.303
50	113	14.299	3.882	10.417
50	114	11.589	0.692	10.897
50	115	18.867	15.334	3.533
50	119	2.538	6.029	-3.491
50	118	18.652	9.884	8.768
50	121	6.615	1.000	5.615
50	124	5.210	3.023	2.187
50	125	10.289	7.325	2.964
50	128	15.620	3.799	11.821
50	130	12.505	3.679	8.826
50	131	10.819	3.849	6.970
50	133	11.686	4.346	7.340
50	134	15.533	5.106	10.427
50	135	18.458	4.608	13.850
50	137	8.161	0.055	8.106
50	298	15.505	7.265	8.240
50	299	9.944	13.224	-3.280
50	UB293	16.002	17.033	-1.031
50	UB294	10.542	5.011	5.531
50	UB295	6.095	6.505	-0.410
50	UB296	13.357	0.268	13.089
50	UB297	11.837	1.160	10.677
50	Max	26.456	17.033	25.707
50	Average	13.583	4.157	9.426
50	Min	2.538	0.055	-3.491
50	Std Dev	4.758	3.764	6.095



800.4_Pulse Skew_VCC3V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	100	ns
Min Limit	0	ns

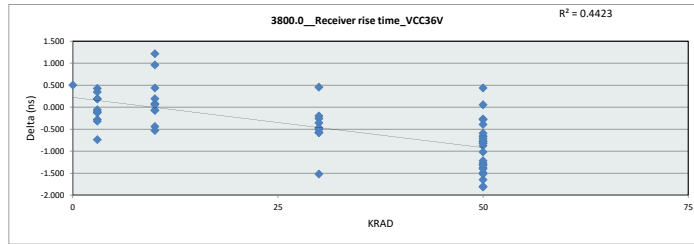
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	1.122	0.626	0.491	0.104	0.055
Average	1.122	3.430	2.195	2.957	5.770
Max	1.122	8.175	4.710	9.873	17.033
UL	100.000	100.000	100.000	100.000	100.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

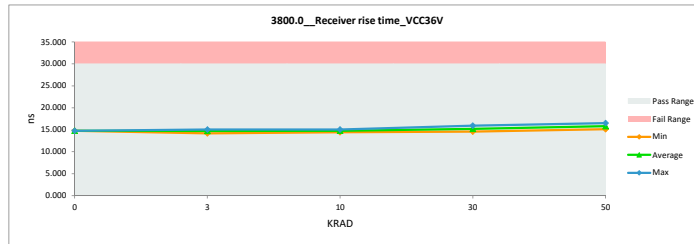
3800.0_Receiver rise time_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	30	30
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST_ANNEAL	Delta
0	C1	15.264	14.759	0.505
3	1	14.705	14.510	0.195
3	2	14.608	14.180	0.428
3	3	14.944	14.998	-0.054
3	6	14.744	14.869	-0.125
3	11	14.752	15.029	-0.277
3	UB14	14.774	14.426	0.348
3	UB16	14.301	15.036	-0.735
3	UB18	14.499	14.601	-0.102
3	UB19	14.737	15.053	-0.316
3	UB22	14.776	14.588	0.188
10	23	14.944	15.013	-0.069
10	24	15.588	14.626	0.962
10	25	16.062	14.846	1.216
10	28	14.453	14.982	-0.529
10	30	15.034	14.840	0.194
10	UB33	14.499	14.565	-0.066
10	UB35	14.636	14.553	0.083
10	UB36	14.869	14.431	0.438
10	UB39	14.612	15.049	-0.437
10	UB40	14.826	14.765	0.061
30	43	15.692	15.236	0.456
30	44	14.320	14.577	-0.257
30	48	14.757	15.111	-0.354
30	50	14.693	15.163	-0.470
30	52	14.951	15.521	-0.570
30	UB96	14.418	15.937	-1.519
30	UB98	14.854	15.358	-0.504
30	UB99	14.869	15.065	-0.196
30	UB101	14.437	15.015	-0.578
30	UB102	14.607	15.077	-0.470
50	105	15.600	15.542	0.058
50	108	14.746	16.016	-1.270
50	107	14.428	15.804	-1.376
50	111	14.672	16.318	-1.646
50	113	15.531	15.797	-0.266
50	114	14.931	15.598	-0.667
50	115	15.747	16.025	-0.278
50	119	14.498	15.986	-1.488
50	118	14.469	15.284	-0.815
50	121	14.572	15.890	-1.318
50	124	14.508	16.024	-1.516
50	125	14.696	16.097	-1.401
50	128	15.650	16.523	-0.873
50	130	15.220	15.609	-0.389
50	131	14.750	15.513	-0.763
50	133	14.993	16.209	-1.216
50	134	14.552	15.861	-1.309
50	135	14.576	16.379	-1.803
50	137	14.591	16.404	-1.813
50	298	14.472	15.125	-0.653
50	299	15.033	15.854	-0.821
50	UB293	14.849	15.440	-0.591
50	UB294	14.675	15.387	-0.712
50	UB295	14.714	15.728	-1.014
50	UB296	14.514	15.285	-0.771
50	UB297	15.812	15.372	0.440
50	Max	16.062	16.523	-1.216
50	Average	14.843	15.313	-0.471
50	Min	14.301	14.180	-1.813
50	Std Dev	0.411	0.587	0.690



3800.0_Receiver rise time_V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	30	ns
Min Limit	0	ns

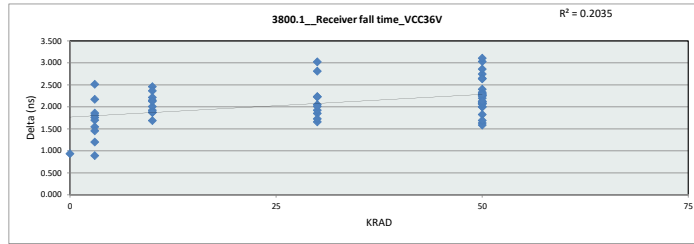
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	14.759	14.180	14.431	14.577	15.125
Average	14.759	15.053	15.049	15.937	16.523
Max	14.759	15.053	15.049	15.937	16.523
UL	30.000	30.000	30.000	30.000	30.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

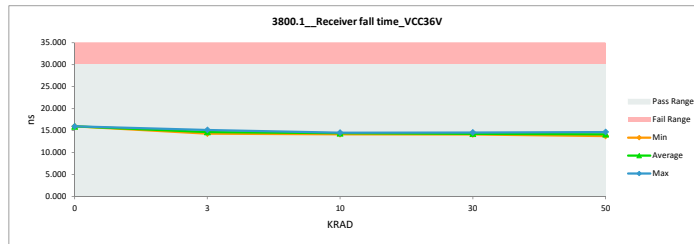
3800.1_Receiver fall time_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	30	30
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	16.880	15.946	0.934
3	1	16.358	14.500	1.858
3	2	16.084	14.328	1.756
3	3	16.937	14.424	2.513
3	6	16.123	14.924	1.199
3	11	16.412	14.869	1.543
3	UB14	16.457	14.286	2.171
3	UB16	16.017	15.126	0.891
3	UB18	16.278	14.580	1.698
3	UB19	16.371	14.919	1.452
3	UB22	16.465	14.660	1.805
10	23	16.937	14.481	2.456
10	24	16.120	14.196	1.924
10	25	16.651	14.503	2.148
10	28	16.059	14.372	1.687
10	30	16.524	14.519	2.005
10	UB33	16.301	14.433	1.868
10	UB35	16.732	14.370	2.362
10	UB36	16.359	14.147	2.212
10	UB39	16.245	14.366	1.879
10	UB40	16.506	14.380	2.126
30	43	16.255	14.404	1.851
30	44	17.192	14.170	3.022
30	48	16.426	14.199	2.227
30	50	16.078	14.155	1.923
30	52	17.343	14.534	2.809
30	UB96	16.038	14.379	1.659
30	UB98	16.260	14.210	2.050
30	UB99	16.341	14.112	2.229
30	UB101	15.921	14.194	1.727
30	UB102	16.169	14.160	2.009
50	105	17.166	14.136	3.030
50	108	16.331	14.222	2.109
50	107	15.881	14.251	1.630
50	111	16.225	14.642	1.583
50	113	16.451	14.120	2.331
50	114	16.393	14.146	2.247
50	115	16.880	14.137	2.743
50	119	16.512	14.112	2.400
50	118	16.038	14.044	1.994
50	121	16.105	14.101	2.004
50	124	17.234	14.131	3.103
50	125	17.004	14.146	2.858
50	128	16.920	14.273	2.647
50	130	16.435	14.148	2.287
50	131	16.339	14.042	2.297
50	133	16.391	14.274	2.117
50	134	16.149	14.076	2.073
50	135	16.197	14.373	1.824
50	137	16.065	14.376	1.689
50	298	16.190	14.127	2.063
50	299	16.420	14.167	2.253
50	UB293	16.356	14.160	2.196
50	UB294	16.287	14.211	2.076
50	UB295	16.277	14.011	2.266
50	UB296	15.946	13.820	2.128
50	UB297	16.379	13.744	2.635
50	Max	17.343	15.946	3.103
50	Average	16.411	14.330	2.080
50	Min	15.881	13.744	0.891
50	Std Dev	0.350	0.337	0.459



3800.1_Receiver fall time_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	30	ns
Min Limit	0	ns

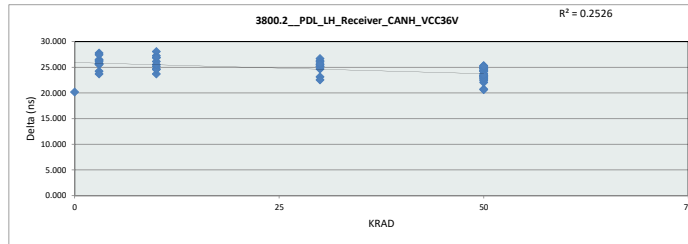
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	15.946	14.286	14.147	14.112	13.744
Average	15.946	14.662	14.377	14.252	14.153
Max	15.946	15.126	14.519	14.534	14.642
UL	30.000	30.000	30.000	30.000	30.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

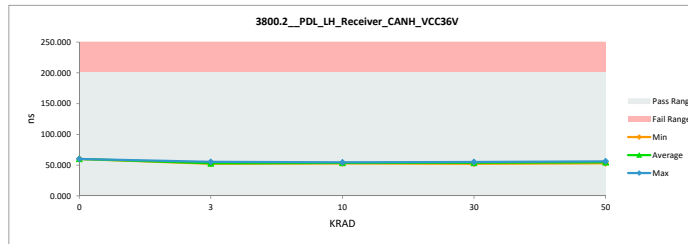
3800.2_PDL_LH_Receiver_CAN		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	200	200
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	80.280	60.117	20.163
3	1	77.780	52.204	25.576
3	2	77.082	52.857	24.225
3	3	78.848	52.531	26.317
3	6	78.984	55.311	23.673
3	11	79.377	52.901	26.476
3	UB14	80.204	52.444	27.760
3	UB16	78.501	52.418	26.083
3	UB18	80.411	52.998	27.413
3	UB19	79.208	53.682	25.526
3	UB22	77.915	52.201	25.714
10	23	78.848	53.657	25.191
10	24	80.429	53.202	27.227
10	25	78.026	54.337	23.689
10	28	79.264	54.604	24.660
10	30	78.935	54.384	24.551
10	UB33	81.029	52.992	28.037
10	UB35	80.588	53.717	26.871
10	UB36	78.872	52.751	26.121
10	UB39	78.914	53.379	25.535
10	UB40	80.424	53.558	26.866
30	43	78.214	53.057	25.157
30	44	77.887	52.391	25.496
30	48	78.719	53.546	25.173
30	50	80.041	53.816	26.225
30	52	80.200	53.524	26.676
30	UB96	78.198	55.066	23.132
30	UB98	78.768	54.120	24.648
30	UB99	79.146	53.093	26.053
30	UB101	80.574	54.959	25.615
30	UB102	76.272	53.755	22.517
50	105	79.226	54.389	24.837
50	108	78.511	55.040	23.471
50	107	78.238	53.916	24.322
50	111	79.393	56.203	23.190
50	113	79.055	54.174	24.881
50	114	78.246	53.028	25.218
50	115	80.148	55.883	24.265
50	119	77.323	54.771	22.552
50	118	79.659	54.858	24.801
50	121	76.631	53.781	22.850
50	124	77.629	54.246	23.383
50	125	78.437	55.372	23.065
50	128	79.404	54.789	24.615
50	130	78.412	54.159	24.253
50	131	76.881	54.842	22.039
50	133	78.556	54.825	23.731
50	134	78.745	54.570	24.175
50	135	78.681	55.442	23.239
50	137	76.599	54.227	22.372
50	298	79.327	54.619	24.708
50	299	76.758	56.025	20.733
50	UB293	79.124	56.241	22.883
50	UB294	78.861	55.431	23.430
50	UB295	75.815	55.178	20.637
50	UB296	78.861	53.545	25.316
50	UB297	78.446	53.294	25.152
50	Max	81.029	60.117	28.037
50	Average	78.753	54.148	24.605
50	Min	75.815	52.201	20.163
50	Std Dev	1.165	1.327	1.727



3800.2_PDL_LH_Receiver_C		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	200	ns
Min Limit	0	ns

KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	60.117	52.201	52.751	52.391	53.028
Average	60.117	52.955	53.658	53.733	54.725
Max	60.117	55.311	54.604	55.066	56.241
UL	200.000	200.000	200.000	200.000	200.000

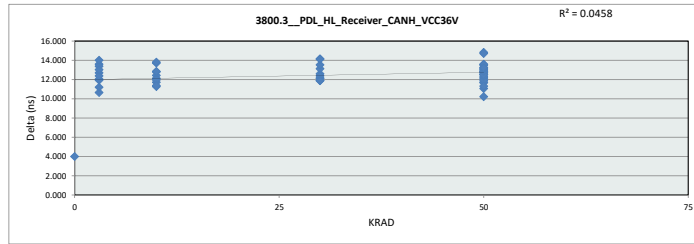


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

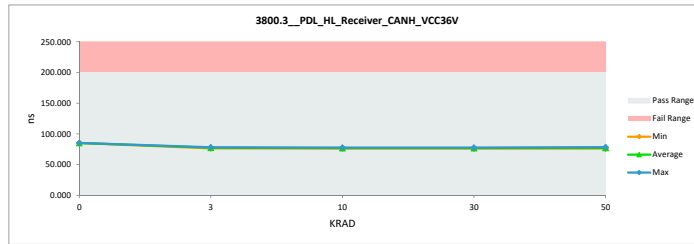
3800.3_PDL_HL_Receiver_CAN		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	200	200
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	89.305	85.299	4.006
3	1	91.809	78.214	13.595
3	2	90.301	76.924	13.377
3	3	89.570	77.523	12.047
3	6	90.330	77.626	12.704
3	11	88.305	77.657	10.648
3	UB14	88.443	76.509	11.934
3	UB16	89.792	77.417	12.375
3	UB18	90.311	77.284	13.027
3	UB19	89.479	78.285	11.194
3	UB22	91.206	77.190	14.016
10	23	89.570	77.144	12.426
10	24	88.541	76.415	12.126
10	25	90.791	77.082	13.709
10	28	88.904	77.630	11.274
10	30	89.183	77.463	11.720
10	UB33	88.906	76.934	11.972
10	UB35	88.465	77.100	11.365
10	UB36	90.057	76.251	13.806
10	UB39	89.773	76.980	12.793
10	UB40	90.308	77.468	12.840
30	43	90.439	77.835	12.604
30	44	88.890	76.762	12.128
30	48	89.206	77.066	12.140
30	50	90.395	77.273	13.122
30	52	90.862	77.335	13.527
30	UB96	88.464	76.578	11.886
30	UB98	89.258	76.870	12.388
30	UB99	90.589	76.467	14.122
30	UB101	90.262	76.118	14.144
30	UB102	89.297	77.392	11.905
50	105	91.283	76.451	14.832
50	108	89.035	77.362	11.673
50	107	88.420	77.354	11.066
50	111	91.409	78.365	13.044
50	113	89.539	76.985	12.554
50	114	89.792	76.987	12.805
50	115	88.897	76.699	12.198
50	119	91.711	77.001	14.710
50	118	88.722	76.650	12.072
50	121	90.477	77.951	12.526
50	124	90.783	77.215	13.568
50	125	89.990	77.242	12.748
50	128	89.442	77.704	11.738
50	130	89.946	77.045	12.901
50	131	89.375	77.446	11.929
50	133	89.770	77.417	12.353
50	134	89.663	76.968	12.695
50	135	88.699	78.480	10.219
50	137	89.607	78.290	11.317
50	298	90.426	77.162	13.264
50	299	90.024	76.525	13.499
50	UB293	88.803	76.281	12.522
50	UB294	90.470	77.604	12.866
50	UB295	89.834	76.724	13.110
50	UB296	90.010	76.408	13.602
50	UB297	89.588	76.376	13.212
50	Max	91.809	85.299	14.832
50	Average	89.767	77.312	12.455
50	Min	88.305	76.118	4.006
50	Std Dev	0.868	1.214	1.487



3800.3_PDL_HL_Receiver_C		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	200	ns
Min Limit	0	ns

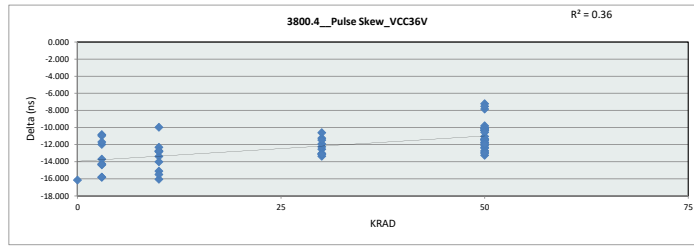
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	85.299	76.509	76.251	76.118	76.281
Average	85.299	77.463	77.047	76.970	77.180
Max	85.299	78.285	77.630	77.835	78.480
UL	200.000	200.000	200.000	200.000	200.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

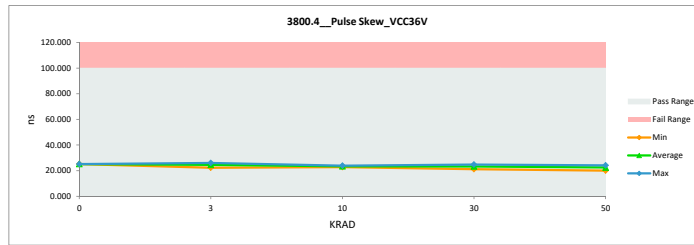
3800.4_Pulse Skew_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	100	100
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	9.025	25.182	-16.157
3	1	14.029	26.011	-11.982
3	2	13.218	24.067	-10.849
3	3	10.722	24.991	-14.269
3	6	11.347	22.315	-10.968
3	11	8.929	24.756	-15.827
3	UB14	8.239	24.065	-15.826
3	UB16	11.291	24.999	-13.708
3	UB18	9.900	24.286	-14.386
3	UB19	10.272	24.603	-14.331
3	UB22	13.292	24.989	-11.697
10	23	10.722	23.488	-12.766
10	24	8.112	23.214	-15.102
10	25	12.765	22.745	-9.980
10	28	9.640	23.026	-13.386
10	30	10.248	23.079	-12.831
10	UB33	7.877	23.943	-16.066
10	UB35	7.877	23.383	-15.506
10	UB36	11.184	23.500	-12.316
10	UB39	10.858	23.601	-12.743
10	UB40	9.885	23.910	-14.025
30	43	12.225	24.778	-12.553
30	44	11.003	24.371	-13.368
30	48	10.487	23.520	-13.033
30	50	10.354	23.456	-13.102
30	52	10.662	23.810	-13.148
30	UB96	10.266	21.512	-11.246
30	UB98	10.490	22.750	-12.260
30	UB99	11.444	23.374	-11.930
30	UB101	9.688	21.159	-11.471
30	UB102	13.026	23.637	-10.611
50	105	12.057	22.063	-10.006
50	108	10.524	22.322	-11.798
50	107	10.182	23.439	-13.257
50	111	12.016	22.161	-10.145
50	113	10.483	22.812	-12.329
50	114	11.546	23.958	-12.412
50	115	8.749	20.817	-12.068
50	119	14.388	22.230	-7.842
50	118	9.063	21.792	-12.729
50	121	13.846	24.170	-10.324
50	124	13.154	22.969	-9.815
50	125	11.553	21.871	-10.318
50	128	10.038	22.916	-12.878
50	130	11.533	22.886	-11.353
50	131	12.494	22.604	-10.110
50	133	11.214	22.592	-11.378
50	134	10.918	22.398	-11.480
50	135	10.019	23.038	-13.019
50	137	13.008	24.063	-11.055
50	298	11.099	22.543	-11.444
50	299	13.266	20.500	-7.234
50	UB293	9.679	20.040	-10.361
50	UB294	11.609	22.173	-10.564
50	UB295	14.018	21.546	-7.528
50	UB296	11.145	22.863	-11.715
50	UB297	11.142	23.082	-11.940
50	Max	14.388	26.011	-7.234
50	Average	11.014	23.164	-12.150
50	Min	7.877	20.040	-16.157
50	Std Dev	1.597	1.210	1.977



3800.4_Pulse Skew_VCC36V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	100	ns
Min Limit	0	ns

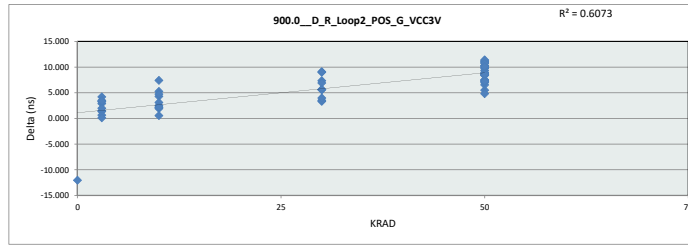
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	25.182	22.315	22.745	21.159	20.040
Average	25.182	24.508	23.389	23.237	22.456
Max	25.182	26.011	23.943	24.778	24.170
UL	100.000	100.000	100.000	100.000	100.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

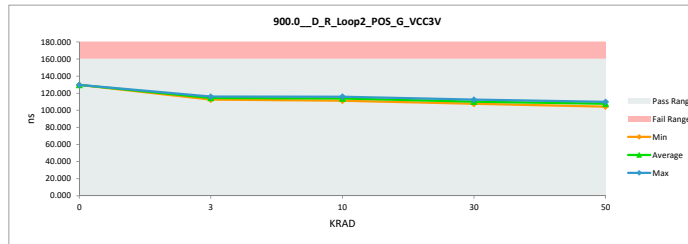
900.0_D_R_Loop2_POS_G_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	160	160
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	117.687	129.746	-12.059
3	1	115.799	114.311	1.488
3	2	115.745	114.377	1.368
3	3	118.215	115.319	2.896
3	6	116.656	116.020	0.636
3	11	114.581	114.477	0.104
3	UB14	116.695	112.498	4.197
3	UB16	117.109	113.854	3.255
3	UB18	117.840	114.342	3.498
3	UB19	117.602	115.610	1.992
3	UB23	117.016	113.679	3.337
10	23	118.215	113.938	4.277
10	24	117.361	112.105	5.256
10	25	117.888	115.959	1.929
10	28	116.307	115.758	0.549
10	30	116.869	114.354	2.515
10	UB33	117.272	112.542	4.730
10	UB35	116.929	113.834	3.095
10	UB36	118.622	111.224	7.398
10	UB39	117.118	114.927	2.191
10	UB40	116.560	114.406	2.154
30	43	114.998	107.645	7.353
30	44	113.817	108.177	5.640
30	48	117.326	110.423	6.903
30	50	116.796	111.159	5.637
30	52	118.401	109.329	9.072
30	UB96	114.692	111.366	3.326
30	UB98	115.994	112.483	3.511
30	UB99	117.779	108.790	8.989
30	UB101	116.535	110.936	5.599
30	UB102	115.037	111.052	3.985
50	105	117.125	107.811	9.314
50	108	117.233	106.032	11.201
50	107	116.265	106.541	9.724
50	111	117.161	108.367	8.794
50	113	117.732	107.472	10.260
50	114	115.410	104.371	11.039
50	115	117.968	107.082	10.886
50	119	116.460	106.182	10.278
50	118	117.001	108.071	8.930
50	121	115.033	106.553	8.480
50	124	115.195	106.720	8.475
50	125	115.006	109.517	5.489
50	128	119.234	107.832	11.402
50	130	116.387	106.427	9.960
50	131	115.798	108.318	7.480
50	133	117.069	108.710	8.359
50	134	117.809	107.107	10.702
50	135	117.916	107.833	10.083
50	137	113.508	106.963	6.545
50	298	115.360	108.072	7.288
50	299	117.151	109.628	7.523
50	UB293	116.895	109.927	6.968
50	UB294	116.468	107.855	8.613
50	UB295	114.567	109.744	4.823
50	UB296	116.435	107.991	8.544
50	UB297	114.781	107.852	7.229
50	Max	119.234	129.746	11.402
50	Average	116.604	110.758	5.846
50	Min	113.508	104.371	-12.059
50	Std Dev	1.246	4.112	4.012



900.0_D_R_Loop2_POS_G_V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	160	ns
Min Limit	0	ns

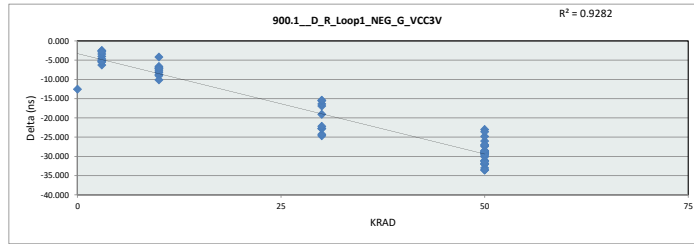
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	129.746	112.498	111.224	107.645	104.371
Average	129.746	114.449	113.905	110.136	107.638
Max	129.746	116.020	115.959	112.483	109.927
UL	160.000	160.000	160.000	160.000	160.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

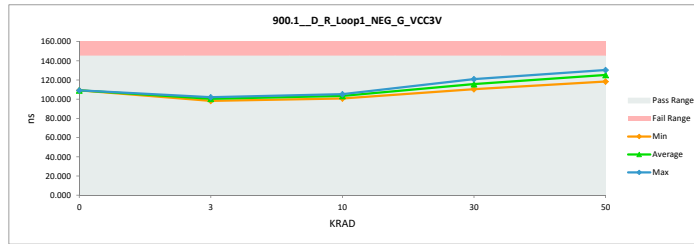
900.1 D_R Loop1_NEG_G_VCC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	145	145
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	96.720	109.277	-12.557
3	1	97.093	102.131	-5.038
3	2	96.173	100.208	-4.035
3	3	96.997	99.612	-2.615
3	6	95.748	101.173	-5.425
3	11	94.010	100.294	-6.284
3	UB14	95.760	98.231	-2.471
3	UB16	95.883	100.560	-4.677
3	UB18	96.251	99.650	-3.399
3	UB19	96.411	101.809	-5.398
3	UB22	97.376	100.200	-2.824
10	23	96.997	105.176	-8.179
10	24	94.865	103.616	-8.751
10	25	97.609	104.874	-7.265
10	28	95.178	104.202	-9.024
10	30	96.155	103.134	-6.979
10	UB33	94.869	102.647	-7.778
10	UB35	94.146	104.273	-10.127
10	UB36	96.521	100.695	-4.174
10	UB39	96.255	102.913	-6.658
10	UB40	96.084	103.222	-7.138
30	43	96.245	120.877	-24.632
30	44	93.727	117.980	-24.253
30	48	95.030	117.809	-22.779
30	50	96.037	118.797	-22.760
30	52	98.504	120.705	-22.201
30	UB96	96.064	112.982	-16.918
30	UB98	95.553	111.924	-16.371
30	UB99	96.197	111.721	-15.524
30	UB101	94.957	110.365	-15.408
30	UB102	94.444	113.505	-19.061
50	105	98.441	124.432	-25.991
50	108	95.394	128.396	-33.002
50	107	93.232	125.126	-31.894
50	111	98.394	130.418	-32.024
50	113	96.369	125.376	-29.007
50	114	95.765	125.624	-29.859
50	115	94.912	126.010	-31.098
50	119	98.608	127.629	-29.021
50	118	94.690	125.849	-31.159
50	121	95.573	127.523	-31.950
50	124	96.994	125.663	-28.669
50	125	96.164	124.783	-28.619
50	128	96.161	127.512	-31.351
50	130	96.380	125.673	-29.293
50	131	95.768	125.861	-30.093
50	133	96.250	125.500	-29.250
50	134	96.887	126.363	-29.476
50	135	95.513	129.048	-33.535
50	137	94.661	128.193	-33.532
50	298	95.047	123.534	-28.487
50	299	96.089	123.167	-27.078
50	UB293	95.393	122.778	-27.385
50	UB294	96.717	123.679	-26.962
50	UB295	94.856	119.650	-24.794
50	UB296	95.470	118.477	-23.007
50	UB297	95.264	118.862	-23.598
50	Max	98.608	130.418	-2.471
50	Average	95.945	115.082	-19.137
50	Min	93.232	98.231	-33.535
50	Std Dev	1.145	10.845	10.876



900.1 D_R Loop1_NEG_G_V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	145	ns
Min Limit	0	ns

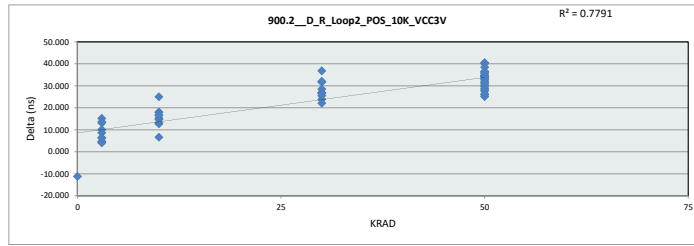
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	109.277	98.231	100.695	110.365	118.477
Average	109.277	100.387	103.475	115.667	125.197
Max	109.277	102.131	105.176	120.877	130.418
UL	145.000	145.000	145.000	145.000	145.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

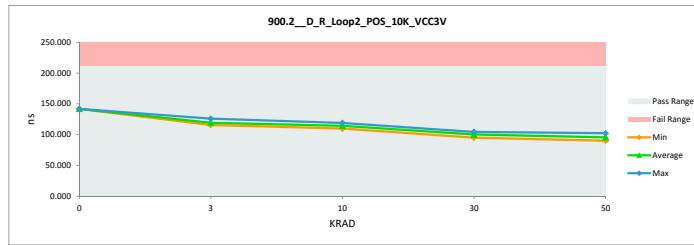
900.2 D_R Loop2_POS_10K V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	210	210
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	130.574	141.829	-11.255
3	1	125.795	115.683	10.112
3	2	124.505	120.086	4.419
3	3	130.568	125.889	4.679
3	6	125.744	119.476	6.268
3	11	123.030	118.947	4.083
3	UB14	126.107	117.489	8.618
3	UB16	130.923	115.744	15.179
3	UB18	133.759	120.214	13.545
3	UB19	128.972	122.585	6.387
3	UB22	129.674	116.610	13.064
10	23	130.568	112.549	18.019
10	24	134.748	109.769	24.979
10	25	132.922	114.961	17.961
10	28	128.708	116.028	12.680
10	30	129.596	114.244	15.352
10	UB33	128.982	114.329	14.653
10	UB35	128.780	112.137	16.643
10	UB36	129.933	113.263	16.670
10	UB39	130.246	117.087	13.159
10	UB40	125.582	119.011	6.571
30	43	126.740	95.064	31.676
30	44	124.537	97.789	26.748
30	48	129.261	100.788	28.473
30	50	129.343	102.674	26.669
30	52	129.303	97.322	31.981
30	UB96	124.983	102.889	22.094
30	UB98	128.228	104.365	23.863
30	UB99	134.275	97.474	36.801
30	UB101	128.376	101.533	26.843
30	UB102	127.167	101.642	25.525
50	105	127.991	99.938	28.053
50	108	126.614	92.552	34.062
50	107	128.415	94.296	34.119
50	111	129.311	95.172	34.139
50	113	130.841	96.147	34.694
50	114	127.915	91.465	36.450
50	115	134.294	93.773	40.521
50	119	125.421	93.387	32.034
50	118	130.906	100.927	29.979
50	121	128.202	95.386	32.816
50	124	124.101	94.438	29.663
50	125	127.373	99.668	27.705
50	128	132.025	95.503	36.522
50	130	129.203	94.431	34.772
50	131	123.615	97.273	26.342
50	133	128.349	97.545	30.804
50	134	131.937	96.341	35.596
50	135	135.573	95.538	40.035
50	137	123.338	94.513	28.825
50	298	124.593	99.539	25.054
50	299	132.148	98.819	33.329
50	UB293	128.109	102.210	25.899
50	UB294	128.647	90.160	38.487
50	UB295	127.834	93.494	34.340
50	UB296	127.542	91.697	35.845
50	UB297	122.930	91.579	31.351
50	Max	135.573	141.829	40.521
50	Average	128.582	104.654	23.928
50	Min	122.930	90.160	-11.255
50	Std Dev	3.055	11.395	11.508



900.2 D_R Loop2_POS_10K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	210	ns
Min Limit	0	ns

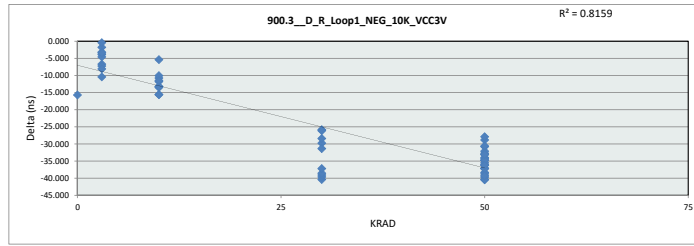
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	141.829	115.683	109.769	95.064	90.160
Average	141.829	119.272	114.338	100.154	95.607
Max	141.829	125.889	119.011	104.365	102.210
UL	210.000	210.000	210.000	210.000	210.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

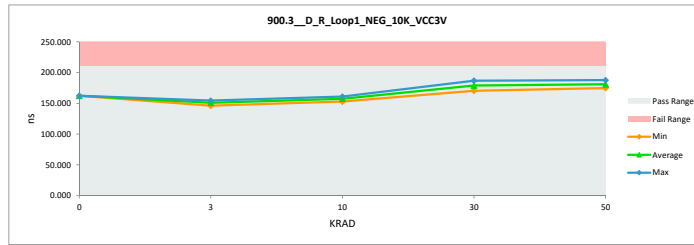
900.3 D_R Loop1_NEG_10K V		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	210	210
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	146.526	162.207	-15.681
3	1	146.088	152.740	-6.652
3	2	145.236	149.087	-3.851
3	3	147.444	149.222	-1.778
3	6	144.931	152.142	-7.211
3	11	142.236	152.667	-10.431
3	UB14	145.648	146.071	-0.423
3	UB16	147.463	152.031	-4.568
3	UB18	147.045	150.217	-3.172
3	UB19	146.280	154.365	-8.085
3	UB22	147.523	150.939	-3.416
10	23	147.444	160.930	-13.486
10	24	144.683	157.844	-13.161
10	25	147.601	160.881	-13.280
10	28	144.453	159.989	-15.536
10	30	146.065	157.845	-11.780
10	UB33	144.276	155.024	-10.748
10	UB35	141.774	157.380	-15.606
10	UB36	147.475	152.849	-5.374
10	UB39	145.491	155.543	-10.052
10	UB40	144.577	156.055	-11.478
30	43	146.396	186.803	-40.407
30	44	142.493	182.143	-39.650
30	48	144.183	183.279	-39.096
30	50	145.919	184.496	-38.577
30	52	148.150	185.374	-37.224
30	UB96	146.106	175.884	-29.778
30	UB98	145.255	173.691	-28.436
30	UB99	145.377	171.217	-25.840
30	UB101	144.322	170.432	-26.110
30	UB102	144.132	175.515	-31.383
50	105	148.405	177.244	-28.839
50	108	144.553	185.020	-40.467
50	107	143.360	180.477	-37.117
50	111	149.417	187.740	-38.323
50	113	146.535	179.660	-33.125
50	114	144.665	181.790	-37.125
50	115	144.433	180.431	-35.998
50	119	148.712	183.469	-34.757
50	118	143.739	182.480	-38.741
50	121	147.496	183.652	-36.156
50	124	147.033	179.133	-32.100
50	125	146.867	177.650	-30.783
50	128	145.876	183.107	-37.231
50	130	146.137	180.125	-33.988
50	131	144.924	179.253	-34.329
50	133	144.206	179.742	-35.536
50	134	146.740	181.546	-34.806
50	135	144.865	184.528	-39.663
50	137	143.869	184.264	-40.395
50	298	143.116	177.846	-34.730
50	299	148.472	176.381	-27.909
50	UB293	144.275	174.891	-30.616
50	UB294	147.037	186.340	-39.303
50	UB295	146.441	179.162	-32.721
50	UB296	144.727	177.798	-33.071
50	UB297	143.326	179.610	-36.284
50	Max	149.417	187.740	-0.423
50	Average	145.646	170.846	-25.200
50	Min	141.774	146.071	-40.467
50	Std Dev	1.713	13.241	13.348



900.3 D_R Loop1_NEG_10K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	210	ns
Min Limit	0	ns

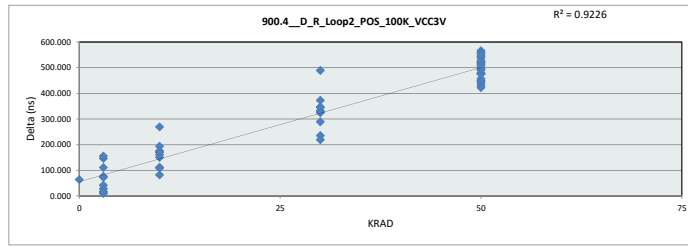
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	162.207	146.071	152.849	170.432	174.891
Average	162.207	150.948	157.434	178.883	180.898
Max	162.207	154.365	160.930	186.803	187.740
UL	210.000	210.000	210.000	210.000	210.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

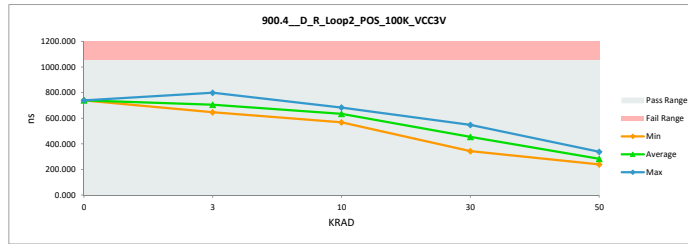
900.4 D_R Loop2_POS_100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	1050	1050
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	803.826	739.967	63.859
3	1	752.186	679.716	72.470
3	2	755.095	737.266	17.829
3	3	828.325	799.582	28.743
3	6	745.165	702.704	42.461
3	11	716.161	706.372	9.789
3	UB14	734.112	657.590	76.522
3	UB16	807.003	660.765	146.238
3	UB18	818.222	707.615	110.607
3	UB19	772.104	759.853	12.251
3	UB22	802.619	647.160	155.459
10	23	828.325	652.999	175.326
10	24	836.842	567.656	269.186
10	25	829.578	668.927	160.651
10	28	787.880	637.941	149.939
10	30	795.558	624.538	171.020
10	UB33	743.303	634.228	109.075
10	UB35	751.973	582.196	169.777
10	UB36	808.321	614.875	193.446
10	UB39	794.186	682.464	111.722
10	UB40	765.664	683.769	81.895
30	43	788.841	415.973	372.868
30	44	743.451	507.790	235.661
30	48	795.450	506.127	289.323
30	50	766.909	547.654	219.255
30	52	778.481	446.237	332.244
30	UB96	785.419	438.759	346.660
30	UB98	791.652	464.256	327.396
30	UB99	832.121	342.857	489.264
30	UB101	768.151	443.409	324.742
30	UB102	775.493	429.420	346.073
50	105	759.595	319.579	440.016
50	108	759.005	241.316	517.689
50	107	811.772	274.051	537.721
50	111	802.661	258.724	543.937
50	113	814.380	291.741	522.639
50	114	798.841	239.895	558.946
50	115	817.134	251.282	565.852
50	119	759.992	251.844	508.148
50	118	795.751	338.735	457.016
50	121	809.238	289.619	519.619
50	124	747.468	272.385	475.083
50	125	805.729	313.683	492.046
50	128	779.932	282.593	497.339
50	130	781.075	262.006	519.069
50	131	743.210	296.419	446.791
50	133	765.268	287.208	478.060
50	134	822.631	295.491	527.140
50	135	835.009	277.784	557.225
50	137	722.206	272.899	449.307
50	298	757.077	325.794	431.283
50	299	849.554	300.931	548.623
50	UB293	775.235	296.419	478.816
50	UB294	763.637	287.208	476.429
50	UB295	785.184	295.491	489.693
50	UB296	788.417	277.784	510.633
50	UB297	695.674	272.899	422.775
50	Max	849.554	799.582	565.852
50	Average	783.300	457.271	326.029
50	Min	695.674	239.895	9.789
50	Std Dev	33.142	183.113	186.085



900.4 D_R Loop2_POS_100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	1050	ns
Min Limit	0	ns

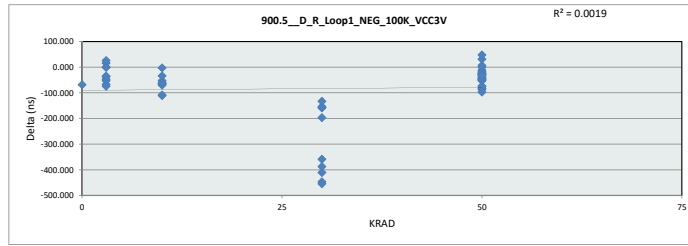
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	739.967	647.160	567.656	342.857	239.895
Average	739.967	705.862	634.959	454.248	283.607
Max	739.967	799.582	683.769	547.654	338.735
UL	1050.000	1050.000	1050.000	1050.000	1050.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

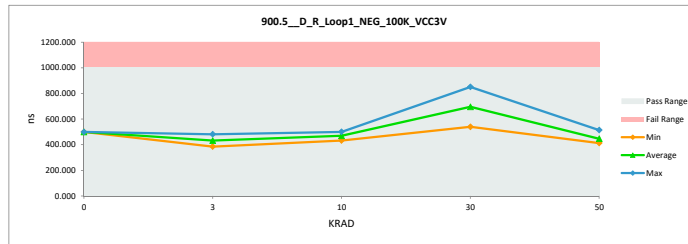
900.5 D R Loop1 NEG 100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	1000	1000
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	431.039	499.343	-68.304
3	1	380.959	433.557	-52.598
3	2	400.392	435.083	-34.691
3	3	430.012	413.874	16.138
3	6	389.852	436.634	-46.782
3	11	367.681	434.400	-66.719
3	UB14	385.252	385.116	0.136
3	UB16	426.241	426.907	-0.666
3	UB18	445.465	419.568	25.897
3	UB19	407.172	481.601	-74.429
3	UB22	414.785	451.733	-36.948
10	23	430.012	499.894	-69.882
10	24	422.006	486.773	-64.767
10	25	422.787	488.456	-65.669
10	28	389.210	499.811	-110.601
10	30	413.350	473.474	-60.124
10	UB33	389.320	441.686	-52.366
10	UB35	369.905	478.216	-108.311
10	UB36	411.664	445.386	-33.722
10	UB39	430.266	432.994	-2.728
10	UB40	385.750	448.604	-62.854
30	43	441.248	799.753	-358.505
30	44	386.808	797.355	-410.547
30	48	394.725	841.328	-446.603
30	50	396.685	850.757	-454.072
30	52	420.067	807.218	-387.151
30	UB96	417.878	576.322	-158.444
30	UB98	421.690	574.955	-153.265
30	UB99	405.230	562.446	-157.216
30	UB101	406.422	539.326	-132.904
30	UB102	405.886	602.526	-196.640
50	105	404.420	420.130	-15.710
50	108	372.644	459.607	-86.963
50	107	372.878	455.201	-82.323
50	111	454.072	477.614	-23.542
50	113	418.275	430.268	-11.993
50	114	451.881	452.227	-0.346
50	115	402.857	432.660	-29.803
50	119	410.587	452.922	-42.335
50	118	386.136	458.974	-72.838
50	121	455.850	449.349	6.501
50	124	407.289	429.219	-21.930
50	125	459.022	427.934	31.088
50	128	407.279	457.989	-50.710
50	130	400.616	435.860	-35.244
50	131	389.386	431.577	-42.191
50	133	387.221	435.157	-47.936
50	134	419.960	444.155	-24.195
50	135	397.771	450.181	-52.410
50	137	414.659	460.975	-46.316
50	298	384.665	427.814	-43.149
50	299	468.506	420.703	47.803
50	UB293	385.065	412.444	-27.379
50	UB294	416.702	513.295	-96.593
50	UB295	433.006	461.446	-28.440
50	UB296	421.519	453.946	-32.427
50	UB297	381.379	457.852	-76.473
50	Max	468.506	850.757	47.803
50	Average	409.533	492.537	-83.003
50	Min	367.681	385.116	-454.072
50	Std Dev	23.837	110.917	113.509



900.5 D R Loop1 NEG 100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	1000	ns
Min Limit	0	ns

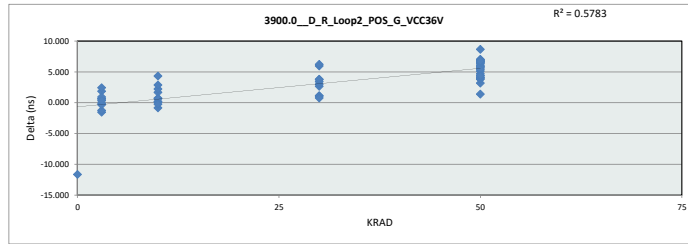
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	499.343	385.116	432.994	539.326	412.444
Average	499.343	431.847	469.529	695.199	446.519
Max	499.343	481.601	499.894	850.757	513.295
UL	1000.000	1000.000	1000.000	1000.000	1000.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

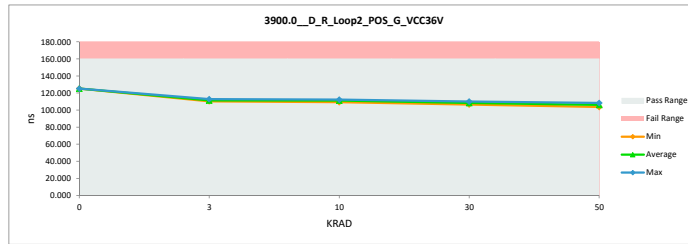
3900.0_D_R_Loop2_POS_G_VC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	160	160
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	113.490	125.135	-11.645
3	1	110.792	110.877	-0.085
3	2	110.208	111.754	-1.546
3	3	112.763	112.128	0.635
3	6	111.534	112.807	-1.273
3	11	110.337	110.683	-0.346
3	UB14	111.383	110.774	0.609
3	UB16	112.346	110.503	1.843
3	UB18	112.201	111.293	0.908
3	UB19	112.344	112.018	0.326
3	UB22	112.678	110.255	2.423
10	23	112.763	111.092	1.671
10	24	112.022	109.810	2.212
10	25	112.328	112.136	0.192
10	28	111.336	112.184	-0.848
10	30	111.230	111.158	0.072
10	UB33	112.869	109.995	2.874
10	UB35	112.283	111.537	0.746
10	UB36	113.557	109.249	4.308
10	UB39	112.908	112.268	0.640
10	UB40	111.842	112.101	-0.259
30	43	110.255	106.512	3.743
30	44	109.445	106.796	2.649
30	48	111.681	108.683	2.998
30	50	112.696	109.282	3.414
30	52	113.623	107.679	5.944
30	UB96	110.240	109.168	1.072
30	UB98	111.151	110.017	1.134
30	UB99	113.324	107.111	6.213
30	UB101	112.634	108.836	3.798
30	UB102	110.027	109.257	0.770
50	105	111.894	105.463	6.431
50	108	111.671	104.825	6.846
50	107	110.791	104.969	5.822
50	111	113.435	106.877	6.558
50	113	112.304	105.673	6.631
50	114	110.499	103.612	6.887
50	115	112.630	105.602	7.028
50	119	111.128	104.845	6.283
50	118	112.149	106.141	6.008
50	121	110.383	104.756	5.627
50	124	111.746	105.077	6.669
50	125	110.953	107.786	3.167
50	128	114.685	106.023	8.662
50	130	111.062	105.259	5.803
50	131	110.707	106.837	3.870
50	133	111.311	106.925	4.386
50	134	112.427	105.444	6.983
50	135	112.994	106.284	6.710
50	137	109.198	105.400	3.798
50	298	111.276	106.603	4.673
50	299	111.822	107.718	4.104
50	UB293	111.696	107.623	4.073
50	UB294	112.301	107.168	5.133
50	UB295	109.721	108.329	1.392
50	UB296	112.007	106.620	5.387
50	UB297	110.576	106.205	4.371
50	Max	114.685	125.135	8.662
50	Average	111.748	108.617	3.131
50	Min	109.198	103.612	-11.645
50	Std Dev	1.154	3.383	3.305



3900.0_D_R_Loop2_POS_G		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	160	ns
Min Limit	0	ns

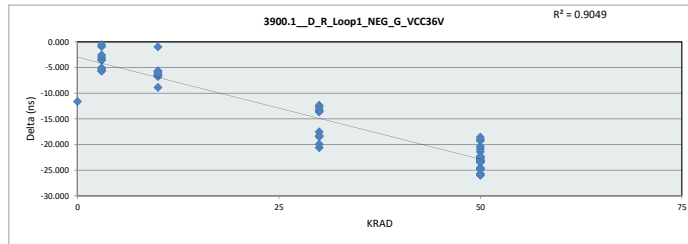
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	125.135	110.255	109.249	106.512	103.612
Average	125.135	111.309	111.153	108.334	106.079
Max	125.135	112.807	112.268	110.017	108.329
UL	160.000	160.000	160.000	160.000	160.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

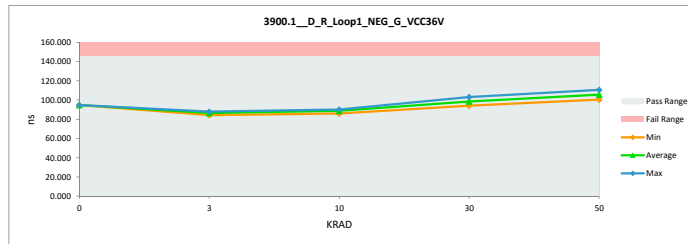
3900.1_D_R_Loop1_NEG_G_VC		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	145	145
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	83.139	94.764	-11.625
3	1	84.243	87.832	-3.589
3	2	82.526	85.916	-3.390
3	3	84.521	85.431	-0.910
3	6	82.144	87.767	-5.623
3	11	80.917	86.607	-5.690
3	UB14	83.694	84.257	-0.563
3	UB16	82.211	87.293	-5.082
3	UB18	82.832	85.811	-2.979
3	UB19	82.675	87.926	-5.251
3	UB22	83.513	86.072	-2.559
10	23	84.521	90.152	-5.631
10	24	81.549	88.305	-6.756
10	25	83.542	90.038	-6.496
10	28	82.961	89.471	-6.510
10	30	82.425	88.806	-6.381
10	UB33	81.706	88.013	-6.307
10	UB35	80.909	89.785	-8.876
10	UB36	84.977	85.934	-0.957
10	UB39	82.564	88.400	-5.836
10	UB40	82.940	88.837	-5.897
30	43	82.511	103.101	-20.590
30	44	80.134	100.062	-19.928
30	48	82.767	100.301	-17.534
30	50	82.557	101.047	-18.490
30	52	84.628	102.923	-18.295
30	UB96	83.230	96.499	-13.269
30	UB98	82.012	95.409	-13.397
30	UB99	82.446	94.802	-12.356
30	UB101	81.447	94.203	-12.756
30	UB102	82.989	96.620	-13.631
50	105	84.467	104.834	-20.367
50	108	83.379	108.096	-24.717
50	107	81.828	105.193	-23.365
50	111	84.713	110.699	-25.986
50	113	82.548	105.195	-22.647
50	114	82.203	105.407	-23.204
50	115	81.468	106.100	-24.632
50	119	84.200	107.316	-23.116
50	118	81.327	105.895	-24.568
50	121	83.956	107.449	-23.493
50	124	83.109	105.690	-22.581
50	125	82.109	105.240	-23.131
50	128	82.649	107.525	-24.876
50	130	82.720	105.708	-22.988
50	131	83.579	105.994	-22.415
50	133	82.578	105.816	-23.238
50	134	83.905	106.314	-22.409
50	135	83.291	108.944	-25.653
50	137	82.403	108.262	-25.859
50	298	82.879	103.711	-20.832
50	299	84.268	103.518	-19.250
50	UB293	81.855	103.270	-21.415
50	UB294	83.180	105.468	-22.288
50	UB295	83.376	102.392	-19.016
50	UB296	81.911	100.495	-18.584
50	UB297	81.819	100.874	-19.055
50	Max	84.977	110.699	-0.563
50	Average	82.824	97.856	-15.032
50	Min	80.134	84.257	-25.986
50	Std Dev	1.057	8.399	8.403



3900.1_D_R_Loop1_NEG_G		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	145	ns
Min Limit	0	ns

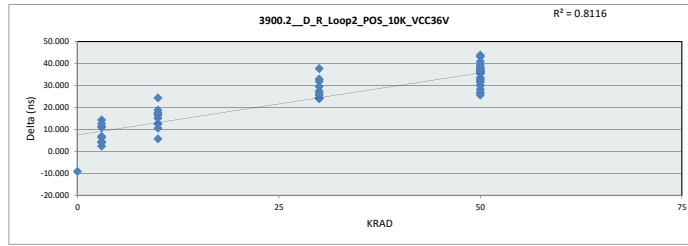
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	94.764	84.257	85.934	94.203	100.495
Average	94.764	86.491	88.774	98.497	105.593
Max	94.764	87.926	90.152	103.101	110.699
UL	145.000	145.000	145.000	145.000	145.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

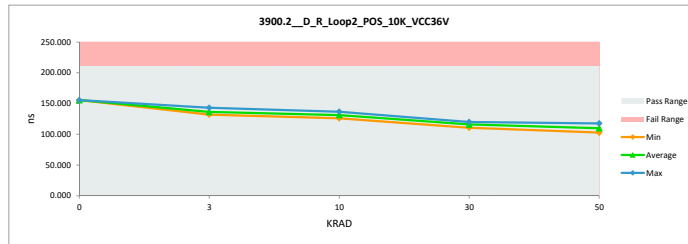
3900.2_D_R_Loop2_POS_10K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	210	210
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	146.418	155.523	-9.105
3	1	142.929	132.025	10.904
3	2	139.427	137.046	2.381
3	3	147.504	143.216	4.288
3	6	142.367	135.963	6.404
3	11	139.691	135.676	4.015
3	UB14	141.698	134.782	6.916
3	UB16	147.162	132.881	14.281
3	UB18	148.872	137.472	11.400
3	UB19	144.672	140.329	4.343
3	UB22	145.786	133.115	12.671
10	23	147.504	129.964	17.540
10	24	150.370	126.034	24.336
10	25	150.781	132.060	18.721
10	28	145.341	132.774	12.567
10	30	145.595	130.553	15.042
10	UB33	143.720	131.176	12.544
10	UB35	145.042	128.573	16.469
10	UB36	147.057	130.103	16.954
10	UB39	144.944	134.427	10.517
10	UB40	142.307	136.576	5.731
30	43	142.421	110.584	31.837
30	44	140.796	114.553	26.243
30	48	146.302	116.819	29.483
30	50	143.728	119.745	23.983
30	52	145.547	112.727	32.820
30	UB96	143.171	118.856	24.315
30	UB98	144.146	119.993	24.153
30	UB99	149.531	111.890	37.641
30	UB101	144.101	116.696	27.405
30	UB102	143.405	117.873	25.532
50	105	143.712	113.680	30.032
50	108	141.866	106.484	35.382
50	107	144.818	109.171	35.647
50	111	145.086	108.761	36.325
50	113	147.730	110.581	37.149
50	114	143.678	106.684	36.994
50	115	151.082	108.041	43.041
50	119	141.189	107.658	33.531
50	118	145.806	115.769	30.037
50	121	145.353	108.815	36.538
50	124	141.171	108.471	32.700
50	125	143.866	115.606	28.260
50	128	146.601	109.123	37.478
50	130	144.587	109.123	35.464
50	131	139.105	112.455	26.650
50	133	144.428	112.447	31.981
50	134	148.451	110.205	38.246
50	135	152.786	109.028	43.758
50	137	139.588	108.040	31.548
50	298	142.714	115.891	26.823
50	299	150.187	114.025	36.162
50	UB293	143.275	117.693	25.582
50	UB294	143.619	102.729	40.890
50	UB295	144.801	106.655	38.146
50	UB296	143.806	104.317	39.489
50	UB297	140.268	104.521	35.747
50	Max	152.786	115.523	43.758
50	Average	144.770	120.105	24.665
50	Min	139.105	102.729	-9.105
50	Std Dev	3.089	12.440	12.583



3900.2_D_R_Loop2_POS_10K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	210	ns
Min Limit	0	ns

KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	155.523	132.025	126.034	110.584	102.729
Average	155.523	136.251	131.224	115.974	109.845
Max	155.523	143.216	136.576	119.993	117.693
UL	210.000	210.000	210.000	210.000	210.000

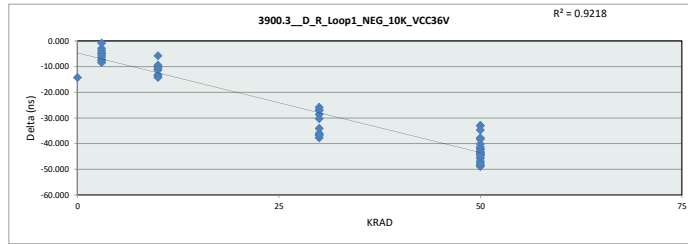


TID Report

TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

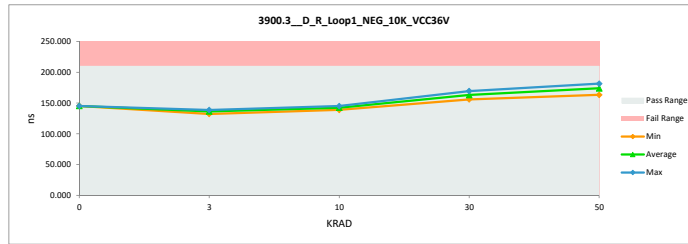
3900.3_D_R_Loop1_NEG_10K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	210	210
Min Limit	0	0

KRAD	Serial #	PRE_RAD	POST_ANNEAL	Delta
0	C1	131.135	145.401	-14.266
3	1	130.825	138.593	-7.768
3	2	130.070	135.568	-5.498
3	3	132.064	135.005	-2.941
3	6	130.174	137.474	-7.300
3	11	129.182	137.617	-8.435
3	UB14	131.527	132.355	-0.828
3	UB16	131.933	136.798	-4.865
3	UB18	131.977	135.763	-3.786
3	UB19	132.559	138.855	-6.296
3	UB22	131.938	136.687	-4.749
10	23	132.064	145.276	-13.212
10	24	129.950	143.411	-13.461
10	25	134.027	145.224	-11.197
10	28	130.756	144.967	-14.211
10	30	133.007	142.488	-9.481
10	UB33	129.576	139.984	-10.408
10	UB35	128.876	142.950	-14.074
10	UB36	133.211	138.989	-5.778
10	UB39	130.422	140.331	-9.909
10	UB40	129.695	141.039	-11.344
30	43	133.070	169.599	-36.529
30	44	128.084	165.842	-37.758
30	48	131.000	167.037	-36.037
30	50	131.138	167.951	-36.813
30	52	134.005	168.060	-34.055
30	UB96	131.552	160.171	-28.619
30	UB98	132.033	158.968	-26.935
30	UB99	129.952	156.938	-26.986
30	UB101	130.111	155.996	-25.885
30	UB102	130.432	160.728	-30.296
50	105	134.672	172.715	-38.043
50	108	130.371	178.891	-48.520
50	107	129.673	175.075	-45.402
50	111	134.183	181.666	-47.483
50	113	132.437	174.617	-42.180
50	114	132.157	175.753	-43.596
50	115	130.946	175.166	-44.220
50	119	133.008	177.097	-44.089
50	118	128.982	177.925	-48.943
50	121	132.758	178.545	-45.787
50	124	131.892	174.008	-42.116
50	125	131.705	173.115	-41.410
50	128	130.982	177.860	-46.878
50	130	132.650	174.938	-42.288
50	131	130.850	174.455	-43.605
50	133	131.538	174.743	-43.205
50	134	131.834	176.227	-44.393
50	135	130.679	179.014	-48.335
50	137	130.301	178.456	-48.155
50	298	128.525	173.163	-44.638
50	299	133.799	171.647	-37.848
50	UB293	130.650	170.821	-40.171
50	UB294	131.750	170.017	-38.267
50	UB295	131.351	164.351	-33.000
50	UB296	130.389	163.376	-32.987
50	UB297	130.383	165.068	-34.685
50	Max	134.672	181.666	-0.828
50	Average	131.312	159.557	-28.245
50	Min	128.084	132.355	-48.943
50	Std Dev	1.475	16.352	16.240



3900.3_D_R_Loop1_NEG_10K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	210	ns
Min Limit	0	ns

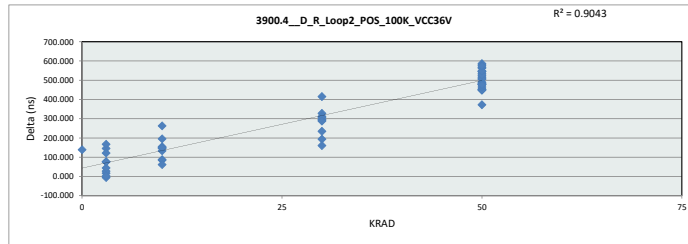
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	145.401	132.355	138.989	155.996	163.376
Average	145.401	136.472	142.466	163.129	174.181
Max	145.401	138.855	145.276	169.599	181.666
UL	210.000	210.000	210.000	210.000	210.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

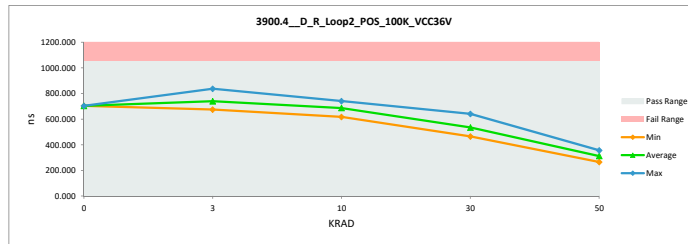
3900.4_D_R_Loop2_POS_100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	1050	1050
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	842.985	703.814	139.171
3	1	787.532	711.276	76.256
3	2	784.206	767.188	-17.018
3	3	865.583	837.669	27.914
3	6	777.852	733.090	44.762
3	11	740.385	745.950	-5.565
3	UB14	760.584	683.734	76.850
3	UB16	840.948	694.786	146.162
3	UB18	862.602	741.204	121.398
3	UB19	807.363	804.603	2.760
3	UB23	842.312	674.859	167.453
10	23	865.583	718.518	147.065
10	24	880.365	617.487	262.878
10	25	875.463	726.780	148.683
10	28	819.721	686.445	133.276
10	30	830.822	675.708	155.114
10	UB33	763.246	678.502	84.744
10	UB35	782.316	632.898	149.418
10	UB36	849.317	653.569	195.748
10	UB39	828.629	741.151	87.478
10	UB40	798.228	736.791	61.437
30	43	825.951	498.357	327.594
30	44	767.856	573.655	194.201
30	48	826.976	592.002	234.974
30	50	802.133	641.040	161.093
30	52	815.426	518.779	296.647
30	UB96	828.600	516.380	312.220
30	UB98	827.421	534.901	292.520
30	UB99	880.331	464.966	415.365
30	UB101	794.458	487.934	306.524
30	UB102	812.648	524.915	287.733
50	105	785.783	331.455	454.328
50	108	787.789	265.704	522.085
50	107	850.304	303.510	546.794
50	111	843.827	281.072	562.755
50	113	849.831	314.231	535.600
50	114	837.385	271.088	566.297
50	115	857.847	277.905	579.942
50	119	792.225	285.166	507.059
50	118	829.420	351.223	478.197
50	121	854.643	309.981	544.662
50	124	786.985	297.338	489.647
50	125	845.273	331.065	514.208
50	128	805.652	299.908	505.744
50	130	818.763	291.654	527.109
50	131	768.338	318.217	450.121
50	133	794.668	310.024	484.644
50	134	862.425	314.230	548.195
50	135	884.515	298.244	586.271
50	137	747.894	295.040	452.854
50	298	792.718	344.554	448.164
50	299	892.824	318.346	574.478
50	UB293	804.918	340.279	464.639
50	UB294	797.806	316.343	481.463
50	UB295	824.250	346.600	477.650
50	UB296	825.854	349.335	476.519
50	UB297	729.068	356.602	372.466
50	Max	892.824	837.669	586.271
50	Average	818.576	498.913	319.663
50	Min	729.068	265.704	-5.565
50	Std Dev	38.229	187.856	192.371



3900.4_D_R_Loop2_POS_100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	1050	ns
Min Limit	0	ns

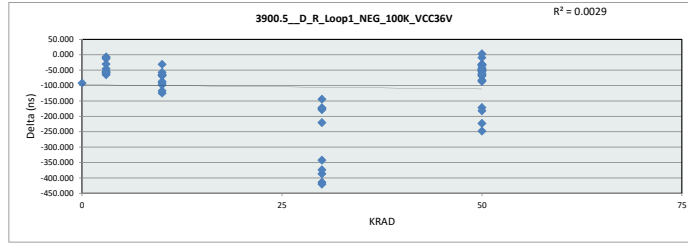
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	703.814	674.859	617.487	464.966	265.704
Average	703.814	739.436	686.785	535.293	312.274
Max	703.814	837.669	741.151	641.040	356.602
UL	1050.000	1050.000	1050.000	1050.000	1050.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

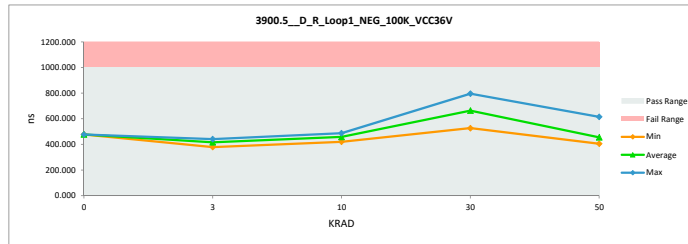
3900.5_D_R_Loop1_NEG_100K		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	ns	ns
Max Limit	1000	1000
Min Limit	0	0

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	385.852	477.849	-91.997
3	1	360.486	417.996	-57.510
3	2	368.706	414.096	-45.390
3	3	390.279	397.207	-6.928
3	6	370.144	424.053	-53.909
3	11	357.044	422.320	-65.276
3	UB14	365.871	378.563	-12.692
3	UB16	388.578	418.812	-30.234
3	UB18	397.386	406.792	-9.406
3	UB19	381.226	441.340	-60.114
3	UB22	381.645	438.742	-57.097
10	23	390.279	481.898	-91.619
10	24	383.152	481.388	-98.236
10	25	387.240	474.012	-86.772
10	28	362.595	487.543	-124.948
10	30	390.337	458.785	-68.448
10	UB33	367.425	431.993	-64.568
10	UB35	353.712	470.812	-117.100
10	UB36	384.014	441.270	-57.256
10	UB39	388.554	419.934	-31.380
10	UB40	366.396	433.360	-66.964
30	43	401.705	744.300	-342.595
30	44	364.894	751.916	-387.022
30	48	371.347	785.870	-414.523
30	50	374.724	795.353	-420.629
30	52	387.393	761.350	-373.957
30	UB96	387.798	566.059	-178.261
30	UB98	390.020	562.608	-172.588
30	UB99	375.214	548.631	-173.417
30	UB101	382.193	526.728	-144.535
30	UB102	370.118	590.472	-220.354
50	105	377.692	411.532	-33.840
50	108	355.923	441.089	-85.166
50	107	354.498	440.765	-86.267
50	111	411.576	461.433	-49.857
50	113	385.602	419.553	-33.951
50	114	403.107	436.251	-33.144
50	115	370.243	424.210	-53.967
50	119	387.013	436.035	-49.022
50	118	363.660	446.283	-82.623
50	121	408.750	439.812	-31.062
50	124	384.549	416.758	-32.209
50	125	410.035	419.555	-9.520
50	128	381.147	445.653	-64.506
50	130	376.581	423.634	-47.053
50	131	372.733	420.344	-47.611
50	133	369.307	424.621	-55.314
50	134	386.772	434.075	-47.303
50	135	370.312	437.903	-67.591
50	137	374.965	443.736	-68.771
50	298	356.225	418.228	-62.003
50	299	414.586	411.586	3.000
50	UB293	361.987	405.079	-43.092
50	UB294	385.442	608.692	-223.250
50	UB295	392.150	563.902	-171.752
50	UB296	393.580	575.922	-182.342
50	UB297	366.621	614.573	-247.952
50	Max	414.586	795.353	3.000
50	Average	379.673	485.496	-105.823
50	Min	353.712	378.563	-420.629
50	Std Dev	15.012	104.555	105.046



3900.5_D_R_Loop1_NEG_10		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	1000	ns
Min Limit	0	ns

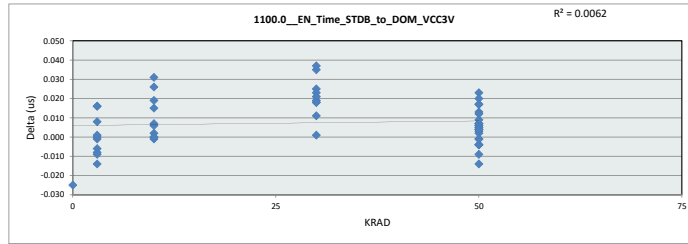
KRAD	0	3	10	30	50
LL	0.000	0.000	0.000	0.000	0.000
Min	477.849	378.563	419.934	526.728	405.079
Average	477.849	415.992	458.100	663.329	454.662
Max	477.849	441.340	487.543	795.353	614.573
UL	1000.000	1000.000	1000.000	1000.000	1000.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

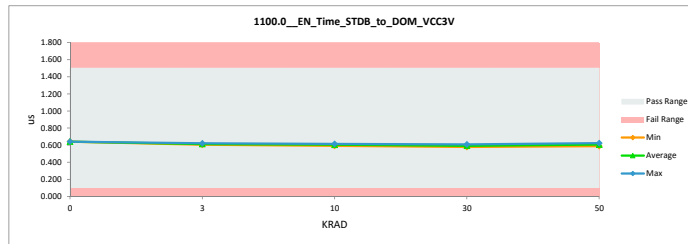
1100.0_EN_Time_STDB_to_DO		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	us	us
Max Limit	1.5	1.5
Min Limit	0.1	0.1

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	0.616	0.641	-0.025
3	1	0.622	0.614	0.008
3	2	0.609	0.610	-0.001
3	3	0.602	0.616	-0.014
3	6	0.615	0.615	0.000
3	11	0.610	0.609	0.001
3	UB14	0.620	0.604	0.016
3	UB16	0.608	0.614	-0.006
3	UB18	0.621	0.605	0.016
3	UB19	0.612	0.620	-0.008
3	UB22	0.612	0.621	-0.009
10	23	0.602	0.600	0.002
10	24	0.603	0.604	-0.001
10	25	0.611	0.604	0.007
10	28	0.630	0.611	0.019
10	30	0.622	0.596	0.026
10	UB33	0.604	0.604	0.000
10	UB35	0.614	0.614	0.000
10	UB36	0.622	0.591	0.031
10	UB39	0.617	0.611	0.006
10	UB40	0.625	0.610	0.015
30	43	0.613	0.588	0.025
30	44	0.596	0.578	0.018
30	48	0.609	0.590	0.019
30	50	0.612	0.589	0.023
30	52	0.627	0.592	0.035
30	UB96	0.618	0.607	0.011
30	UB98	0.615	0.594	0.021
30	UB99	0.626	0.589	0.037
30	UB101	0.607	0.589	0.018
30	UB102	0.609	0.608	0.001
50	105	0.619	0.606	0.013
50	108	0.613	0.606	0.007
50	107	0.605	0.593	0.012
50	111	0.614	0.623	-0.009
50	113	0.613	0.607	0.006
50	114	0.611	0.588	0.023
50	115	0.615	0.610	0.005
50	119	0.616	0.609	0.007
50	118	0.606	0.610	-0.004
50	121	0.606	0.610	-0.004
50	124	0.623	0.606	0.017
50	125	0.597	0.611	-0.014
50	128	0.613	0.614	-0.001
50	130	0.613	0.608	0.005
50	131	0.611	0.608	0.003
50	133	0.608	0.612	-0.004
50	134	0.611	0.607	0.004
50	135	0.615	0.613	0.002
50	137	0.610	0.604	0.006
50	298	0.606	0.602	0.004
50	299	0.611	0.604	0.007
50	UB293	0.615	0.606	0.009
50	UB294	0.609	0.605	0.004
50	UB295	0.604	0.605	-0.001
50	UB296	0.612	0.592	0.020
50	UB297	0.614	0.597	0.017
50	Max	0.630	0.641	0.037
50	Average	0.613	0.605	0.007
50	Min	0.596	0.578	-0.025
50	Std Dev	0.007	0.011	0.012



1100.0_EN_Time_STDB_to_L		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	us	us
Max Limit	1.5	1.5
Min Limit	0.1	0.1

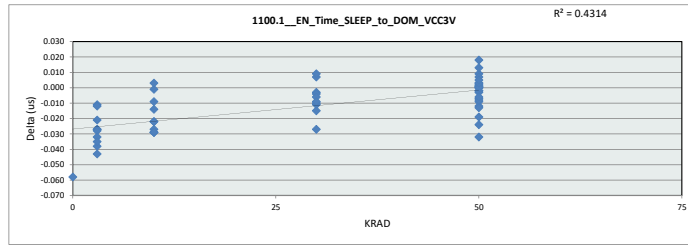
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	0.641	0.604	0.591	0.578	0.588
Average	0.641	0.613	0.605	0.592	0.606
Max	0.641	0.621	0.614	0.608	0.623
UL	1.500	1.500	1.500	1.500	1.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

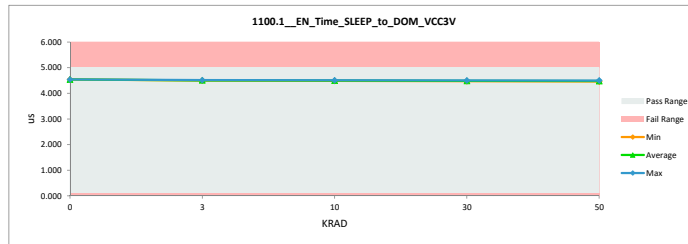
1100.1_EN Time_SLEEP_to DO		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	us	us
Max Limit	5	5
Min Limit	0.1	0.1

KRAD	Serial #	PRE-RAD	POST-ANNEAL	Delta
0	C1	4.482	4.540	-0.058
3	1	4.489	4.510	-0.021
3	2	4.476	4.503	-0.027
3	3	4.468	4.511	-0.043
3	6	4.482	4.509	-0.027
3	11	4.476	4.504	-0.028
3	UB14	4.487	4.498	-0.011
3	UB16	4.475	4.507	-0.032
3	UB18	4.488	4.500	-0.012
3	UB19	4.477	4.515	-0.038
3	UB22	4.480	4.515	-0.035
10	23	4.468	4.495	-0.027
10	24	4.470	4.499	-0.029
10	25	4.478	4.500	-0.022
10	28	4.496	4.505	-0.009
10	30	4.489	4.490	-0.001
10	UB33	4.470	4.499	-0.029
10	UB35	4.480	4.509	-0.029
10	UB36	4.488	4.485	0.003
10	UB39	4.484	4.506	-0.022
10	UB40	4.491	4.505	-0.014
30	43	4.479	4.482	-0.003
30	44	4.462	4.473	-0.011
30	48	4.474	4.484	-0.010
30	50	4.479	4.483	-0.004
30	52	4.494	4.487	0.007
30	UB96	4.485	4.500	-0.015
30	UB98	4.482	4.488	-0.006
30	UB99	4.492	4.483	0.009
30	UB101	4.474	4.483	-0.009
30	UB102	4.475	4.502	-0.027
50	105	4.486	4.477	0.009
50	108	4.478	4.477	0.001
50	107	4.471	4.464	0.007
50	111	4.481	4.493	-0.012
50	113	4.479	4.477	0.002
50	114	4.476	4.458	0.018
50	115	4.481	4.480	0.001
50	119	4.482	4.479	0.003
50	118	4.473	4.480	-0.007
50	121	4.472	4.481	-0.009
50	124	4.489	4.476	0.013
50	125	4.463	4.482	-0.019
50	128	4.481	4.484	-0.003
50	130	4.479	4.478	0.001
50	131	4.476	4.478	-0.002
50	133	4.474	4.482	-0.008
50	134	4.478	4.478	0.000
50	135	4.482	4.484	-0.002
50	137	4.475	4.475	0.000
50	298	4.473	4.473	0.000
50	299	4.477	4.474	0.003
50	UB293	4.481	4.476	0.005
50	UB294	4.477	4.501	-0.024
50	UB295	4.469	4.501	-0.032
50	UB296	4.480	4.486	-0.006
50	UB297	4.479	4.492	-0.013
50	Max	4.496	4.540	0.018
50	Average	4.479	4.490	-0.011
50	Min	4.462	4.458	-0.058
50	Std Dev	0.007	0.015	0.016



1100.1_EN Time_SLEEP_to		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	5	us
Min Limit	0.1	us

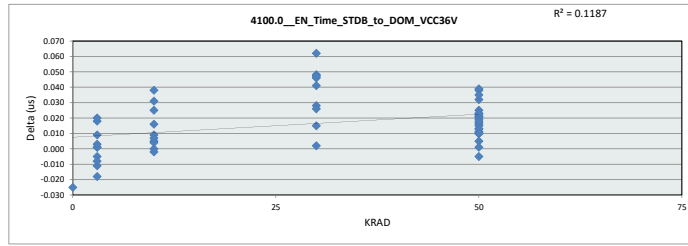
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	4.540	4.498	4.485	4.473	4.458
Average	4.540	4.507	4.499	4.487	4.480
Max	4.540	4.515	4.509	4.502	4.501
UL	5.000	5.000	5.000	5.000	5.000



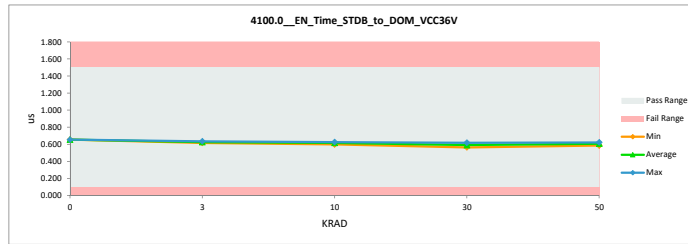
TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

4100.0_EN Time_STDB_to_DO		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	us	us
Max Limit	1.5	1.5
Min Limit	0.1	0.1

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	0.629	0.654	-0.025
3	1	0.636	0.627	0.009
3	2	0.622	0.621	0.001
3	3	0.612	0.630	-0.018
3	6	0.628	0.627	0.001
3	11	0.624	0.621	0.003
3	UB14	0.634	0.616	0.018
3	UB16	0.621	0.626	-0.005
3	UB18	0.637	0.617	0.020
3	UB19	0.624	0.635	-0.011
3	UB22	0.625	0.633	-0.008
10	23	0.612	0.612	0.000
10	24	0.618	0.613	0.005
10	25	0.624	0.615	0.009
10	28	0.646	0.621	0.025
10	30	0.637	0.606	0.031
10	UB33	0.617	0.619	-0.002
10	UB35	0.629	0.625	0.004
10	UB36	0.636	0.598	0.038
10	UB39	0.630	0.623	0.007
10	UB40	0.639	0.623	0.016
30	43	0.628	0.580	0.048
30	44	0.609	0.563	0.046
30	48	0.623	0.582	0.041
30	50	0.626	0.578	0.048
30	52	0.641	0.579	0.062
30	UB96	0.632	0.617	0.015
30	UB98	0.628	0.600	0.028
30	UB99	0.641	0.594	0.047
30	UB101	0.620	0.594	0.026
30	UB102	0.619	0.617	0.002
50	105	0.633	0.608	0.025
50	108	0.625	0.603	0.022
50	107	0.617	0.596	0.021
50	111	0.626	0.621	0.005
50	113	0.627	0.606	0.021
50	114	0.623	0.585	0.038
50	115	0.630	0.614	0.016
50	119	0.630	0.610	0.020
50	118	0.620	0.610	0.010
50	121	0.618	0.605	0.013
50	124	0.638	0.606	0.032
50	125	0.609	0.614	-0.005
50	128	0.627	0.617	0.010
50	130	0.626	0.611	0.015
50	131	0.623	0.612	0.011
50	133	0.619	0.618	0.001
50	134	0.623	0.604	0.019
50	135	0.629	0.612	0.017
50	137	0.622	0.599	0.023
50	298	0.619	0.608	0.011
50	299	0.623	0.610	0.013
50	UB293	0.628	0.610	0.018
50	UB294	0.623	0.600	0.023
50	UB295	0.616	0.606	0.010
50	UB296	0.626	0.587	0.039
50	UB297	0.627	0.592	0.035
50	Max	0.646	0.654	0.062
50	Average	0.626	0.609	0.017
50	Min	0.609	0.563	-0.025
50	Std Dev	0.008	0.016	0.017



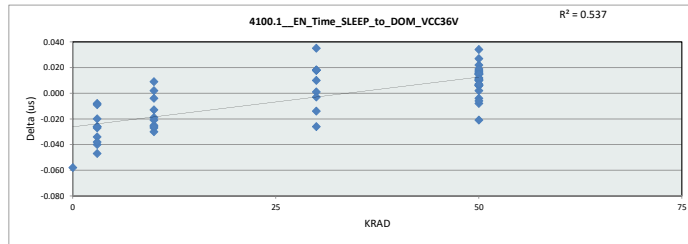
4100.0_EN Time_STDB_to_DOM_VCC36V					
Test Site	Junkins				
Tester	ETS10				
Test Number	EF580302				
Max Limit	1.5	us			
Min Limit	0.1	us			
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	0.654	0.616	0.598	0.563	0.585
Average	0.654	0.625	0.616	0.590	0.606
Max	0.654	0.635	0.625	0.617	0.621
UL	1.500	1.500	1.500	1.500	1.500



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

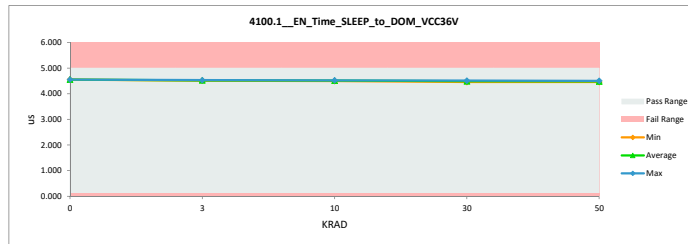
4100.1_EN Time_SLEEP_to_D		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	us	us
Max Limit	5	5
Min Limit	0.1	0.1

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	4.425	4.553	-0.058
3	1	4.503	4.523	-0.020
3	2	4.489	4.516	-0.027
3	3	4.479	4.526	-0.047
3	6	4.496	4.522	-0.026
3	11	4.490	4.516	-0.026
3	UB14	4.501	4.509	-0.008
3	UB16	4.487	4.521	-0.034
3	UB18	4.504	4.513	-0.009
3	UB19	4.490	4.530	-0.040
3	UB22	4.491	4.529	-0.038
10	23	4.479	4.506	-0.027
10	24	4.485	4.510	-0.025
10	25	4.491	4.510	-0.019
10	28	4.512	4.516	-0.004
10	30	4.504	4.502	0.002
10	UB33	4.483	4.513	-0.030
10	UB35	4.495	4.521	-0.026
10	UB36	4.503	4.494	0.009
10	UB39	4.497	4.518	-0.021
10	UB40	4.505	4.518	-0.013
30	43	4.494	4.476	0.018
30	44	4.475	4.457	0.018
30	48	4.489	4.479	0.010
30	50	4.492	4.474	0.018
30	52	4.508	4.473	0.035
30	UB96	4.498	4.512	-0.014
30	UB98	4.495	4.494	0.001
30	UB99	4.507	4.489	0.018
30	UB101	4.486	4.489	-0.003
30	UB102	4.486	4.512	-0.026
50	105	4.500	4.478	0.022
50	108	4.491	4.473	0.018
50	107	4.483	4.466	0.017
50	111	4.493	4.491	0.002
50	113	4.492	4.476	0.016
50	114	4.490	4.456	0.034
50	115	4.496	4.484	0.012
50	119	4.495	4.480	0.015
50	118	4.486	4.480	0.006
50	121	4.485	4.475	0.010
50	124	4.503	4.476	0.027
50	125	4.475	4.483	-0.008
50	128	4.493	4.487	0.006
50	130	4.492	4.481	0.011
50	131	4.489	4.483	0.006
50	133	4.485	4.489	-0.004
50	134	4.489	4.474	0.015
50	135	4.496	4.481	0.015
50	137	4.488	4.469	0.019
50	298	4.485	4.478	0.007
50	299	4.490	4.480	0.010
50	UB293	4.495	4.480	0.015
50	UB294	4.489	4.495	-0.006
50	UB295	4.481	4.502	-0.021
50	UB296	4.493	4.492	0.011
50	UB297	4.493	4.486	0.007
50	Max	4.512	4.553	0.035
50	Average	4.492	4.495	-0.003
50	Min	4.475	4.456	-0.058
50	Std Dev	0.008	0.021	0.021



4100.1_EN Time_SLEEP_to		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	5	us
Min Limit	0.1	us

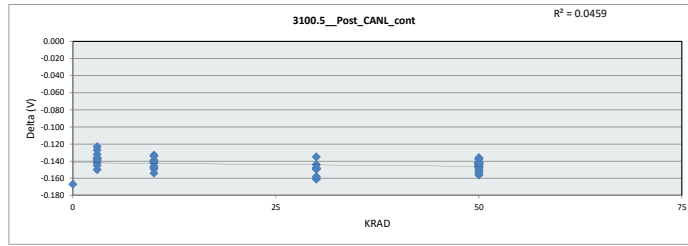
KRAD	0	3	10	30	50
LL	0.100	0.100	0.100	0.100	0.100
Min	4.553	4.509	4.494	4.457	4.456
Average	4.553	4.521	4.511	4.486	4.480
Max	4.553	4.530	4.521	4.512	4.502
UL	5.000	5.000	5.000	5.000	5.000



TID Report
TID_REPORT_HVD233_HKX_POST_2WKS_ANNEAL

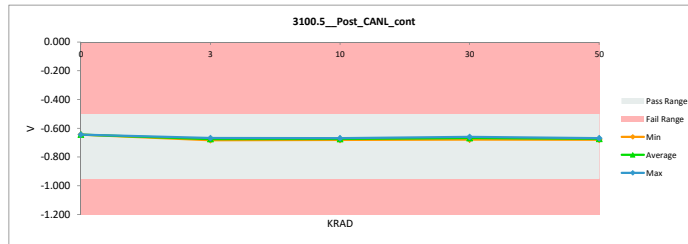
3100.5_Post_CANL_cont		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Unit	V	V
Max Limit	-0.5	-0.5
Min Limit	-0.95	-0.95

KRAD	Serial #	PRE-RAD	POST ANNEAL	Delta
0	C1	-0.811	-0.644	-0.167
3	1	-0.817	-0.672	-0.145
3	2	-0.814	-0.676	-0.138
3	3	-0.818	-0.668	-0.150
3	6	-0.806	-0.683	-0.123
3	11	-0.815	-0.676	-0.139
3	UB14	-0.812	-0.676	-0.136
3	UB16	-0.810	-0.678	-0.132
3	UB18	-0.812	-0.670	-0.142
3	UB19	-0.808	-0.681	-0.127
3	UB22	-0.809	-0.672	-0.137
10	23	-0.818	-0.679	-0.139
10	24	-0.814	-0.681	-0.133
10	25	-0.811	-0.677	-0.134
10	28	-0.821	-0.672	-0.149
10	30	-0.815	-0.669	-0.146
10	UB33	-0.815	-0.673	-0.142
10	UB35	-0.815	-0.674	-0.141
10	UB36	-0.817	-0.676	-0.141
10	UB39	-0.824	-0.670	-0.154
10	UB40	-0.819	-0.672	-0.147
30	43	-0.821	-0.660	-0.161
30	44	-0.814	-0.665	-0.149
30	48	-0.822	-0.662	-0.160
30	50	-0.813	-0.665	-0.148
30	52	-0.820	-0.662	-0.158
30	UB96	-0.816	-0.667	-0.149
30	UB98	-0.820	-0.671	-0.149
30	UB99	-0.814	-0.679	-0.135
30	UB101	-0.819	-0.671	-0.148
30	UB102	-0.819	-0.675	-0.144
50	105	-0.826	-0.670	-0.156
50	108	-0.812	-0.675	-0.137
50	107	-0.821	-0.676	-0.145
50	111	-0.821	-0.674	-0.147
50	113	-0.819	-0.677	-0.142
50	114	-0.820	-0.677	-0.143
50	115	-0.816	-0.673	-0.143
50	119	-0.814	-0.676	-0.138
50	118	-0.813	-0.671	-0.142
50	121	-0.823	-0.673	-0.150
50	124	-0.819	-0.672	-0.147
50	125	-0.823	-0.670	-0.153
50	128	-0.818	-0.671	-0.147
50	130	-0.816	-0.673	-0.143
50	131	-0.814	-0.672	-0.142
50	133	-0.813	-0.669	-0.144
50	134	-0.816	-0.674	-0.142
50	135	-0.816	-0.674	-0.142
50	137	-0.820	-0.675	-0.145
50	298	-0.826	-0.670	-0.156
50	299	-0.820	-0.669	-0.151
50	UB293	-0.819	-0.671	-0.148
50	UB294	-0.816	-0.680	-0.136
50	UB295	-0.817	-0.673	-0.144
50	UB296	-0.819	-0.671	-0.141
50	UB297	-0.817	-0.675	-0.142
50	Max	-0.806	-0.644	-0.123
50	Average	-0.817	-0.672	-0.144
50	Min	-0.826	-0.683	-0.167
50	Std Dev	0.004	0.006	0.008



3100.5_Post_CANL_cont		
Test Site	Junkins	Junkins
Tester	ETS10	ETS10
Test Number	EF580302	EF580302
Max Limit	-0.5	V
Min Limit	-0.95	V

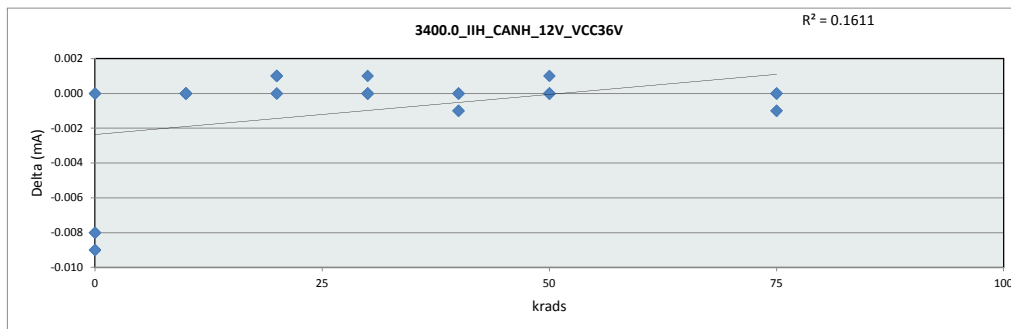
KRAD	0	3	10	30	50
LL	-0.950	-0.950	-0.950	-0.950	-0.950
Min	-0.644	-0.683	-0.681	-0.679	-0.680
Average	-0.644	-0.675	-0.674	-0.668	-0.673
Max	-0.644	-0.668	-0.669	-0.660	-0.669
UL	-0.500	-0.500	-0.500	-0.500	-0.500



TID 75k LDR Report
HVD233 Boac Teos

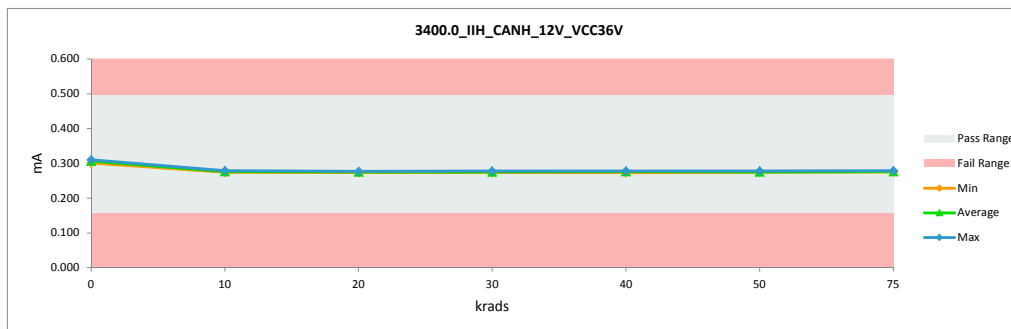
3400.0_IIH_CANH_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.495	0.495
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.301	0.301	0.000
10	27_Unbias	0.274	0.274	0.000
10	28_Unbias	0.275	0.275	0.000
10	29_Unbias	0.278	0.278	0.000
10	30_Unbias	0.279	0.279	0.000
10	31_Unbias	0.275	0.275	0.000
0	2_corr	0.301	0.301	0.000
20	32_Unbias	0.275	0.275	0.000
20	33_Unbias	0.278	0.277	0.001
20	34_Unbias	0.274	0.273	0.001
20	35_Unbias	0.277	0.277	0.000
20	36_Unbias	0.277	0.276	0.001
0	2	0.301	0.309	-0.008
30	37_Unbias	0.276	0.276	0.000
30	38_Unbias	0.274	0.273	0.001
30	39_Unbias	0.278	0.278	0.000
30	40_Unbias	0.277	0.277	0.000
30	41_Unbias	0.273	0.273	0.000
0	2_corr	0.301	0.309	-0.008
40	42_Unbias	0.277	0.277	0.000
40	43_Unbias	0.274	0.275	-0.001
40	44_Unbias	0.276	0.277	-0.001
40	45_Unbias	0.273	0.273	0.000
40	46_Unbias	0.278	0.278	0.000
0	2	0.301	0.310	-0.009
50	47_Unbias	0.275	0.275	0.000
50	48_Unbias	0.279	0.278	0.001
50	49_Unbias	0.277	0.277	0.000
50	50_Unbias	0.274	0.274	0.000
50	51_Unbias	0.274	0.274	0.000
0	2	0.301	0.310	-0.009
75	47_Unbias	0.275	0.275	0.000
75	48_Unbias	0.279	0.279	0.000
75	49_Unbias	0.277	0.277	0.000
75	50_Unbias	0.274	0.275	-0.001
75	51_Unbias	0.274	0.275	-0.001
	Max	0.301	0.310	0.001
	Average	0.280	0.281	-0.001
	Min	0.273	0.273	-0.009
	Std Dev	0.010	0.012	0.003



3400.0_IIH_CANH_12V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.495	mA
Min Limit	0.155	mA

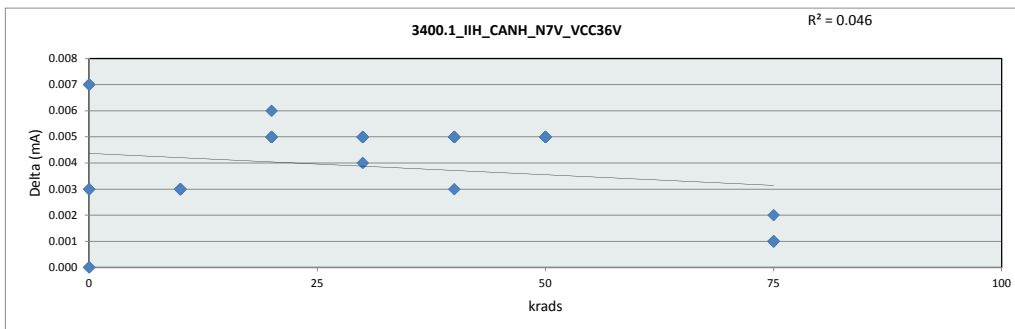
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.301	0.274	0.273	0.273	0.273	0.274	0.275
Average	0.307	0.276	0.276	0.275	0.276	0.276	0.276
Max	0.310	0.279	0.277	0.278	0.278	0.278	0.279
UL	0.495	0.495	0.495	0.495	0.495	0.495	0.495



TID 75k LDR Report
HVD233 Boac Teos

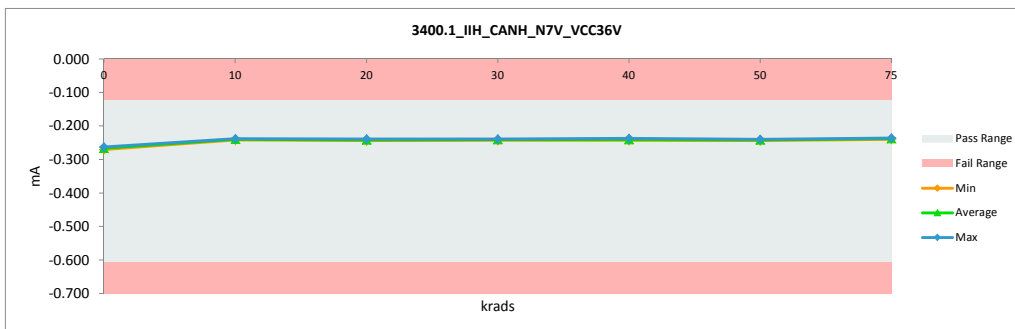
3400.1_IIH_CANH_N7V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.263	-0.263	0.000
10	27_Unbias	-0.235	-0.238	0.003
10	28_Unbias	-0.235	-0.238	0.003
10	29_Unbias	-0.238	-0.241	0.003
10	30_Unbias	-0.239	-0.242	0.003
10	31_Unbias	-0.235	-0.238	0.003
0	2_corr	-0.263	-0.263	0.000
20	32_Unbias	-0.236	-0.241	0.005
20	33_Unbias	-0.238	-0.244	0.006
20	34_Unbias	-0.234	-0.239	0.005
20	35_Unbias	-0.238	-0.243	0.005
20	36_Unbias	-0.237	-0.242	0.005
0	2	-0.263	-0.270	0.007
30	37_Unbias	-0.236	-0.241	0.005
30	38_Unbias	-0.235	-0.239	0.004
30	39_Unbias	-0.238	-0.243	0.005
30	40_Unbias	-0.238	-0.243	0.005
30	41_Unbias	-0.234	-0.239	0.005
0	2_corr	-0.263	-0.270	0.007
40	42_Unbias	-0.238	-0.243	0.005
40	43_Unbias	-0.235	-0.240	0.005
40	44_Unbias	-0.237	-0.242	0.005
40	45_Unbias	-0.234	-0.237	0.003
40	46_Unbias	-0.238	-0.243	0.005
0	2	-0.263	-0.266	0.003
50	47_Unbias	-0.236	-0.241	0.005
50	48_Unbias	-0.239	-0.244	0.005
50	49_Unbias	-0.237	-0.242	0.005
50	50_Unbias	-0.235	-0.240	0.005
50	51_Unbias	-0.235	-0.240	0.005
0	2	-0.263	-0.266	0.003
75	47_Unbias	-0.236	-0.237	0.001
75	48_Unbias	-0.239	-0.240	0.001
75	49_Unbias	-0.237	-0.239	0.002
75	50_Unbias	-0.235	-0.236	0.001
75	51_Unbias	-0.235	-0.236	0.001
	Max	-0.234	-0.236	0.007
	Average	-0.241	-0.245	0.004
	Min	-0.263	-0.270	0.000
	Std Dev	0.010	0.010	0.002



3400.1_IIH_CANH_N7V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.605	mA

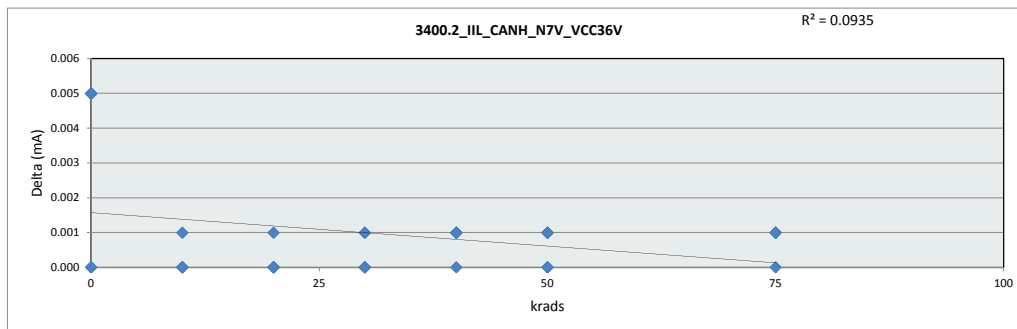
krads	0	10	20	30	40	50	75
LL	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.270	-0.242	-0.244	-0.243	-0.243	-0.244	-0.240
Average	-0.266	-0.239	-0.242	-0.241	-0.241	-0.241	-0.238
Max	-0.263	-0.238	-0.239	-0.239	-0.237	-0.240	-0.236
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report
HVD233 Boac Teos

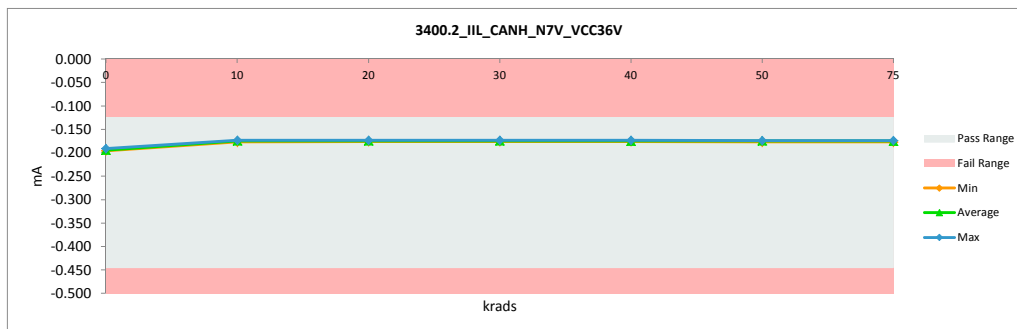
3400.2_IIL_CANH_N7V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.191	-0.191	0.000
10	27_Unbias	-0.173	-0.173	0.000
10	28_Unbias	-0.174	-0.174	0.000
10	29_Unbias	-0.176	-0.176	0.000
10	30_Unbias	-0.176	-0.177	0.001
10	31_Unbias	-0.174	-0.174	0.000
0	2_corr	-0.191	-0.191	0.000
20	32_Unbias	-0.174	-0.174	0.000
20	33_Unbias	-0.176	-0.176	0.000
20	34_Unbias	-0.173	-0.173	0.000
20	35_Unbias	-0.175	-0.176	0.001
20	36_Unbias	-0.175	-0.175	0.000
0	2	-0.191	-0.196	0.005
30	37_Unbias	-0.174	-0.175	0.001
30	38_Unbias	-0.173	-0.173	0.000
30	39_Unbias	-0.176	-0.176	0.000
30	40_Unbias	-0.175	-0.176	0.001
30	41_Unbias	-0.173	-0.173	0.000
0	2_corr	-0.191	-0.196	0.005
40	42_Unbias	-0.175	-0.176	0.001
40	43_Unbias	-0.173	-0.174	0.001
40	44_Unbias	-0.175	-0.176	0.001
40	45_Unbias	-0.172	-0.173	0.001
40	46_Unbias	-0.176	-0.176	0.000
0	2	-0.191	-0.196	0.005
50	47_Unbias	-0.174	-0.174	0.000
50	48_Unbias	-0.176	-0.177	0.001
50	49_Unbias	-0.175	-0.175	0.000
50	50_Unbias	-0.173	-0.174	0.001
50	51_Unbias	-0.173	-0.174	0.001
0	2	-0.191	-0.196	0.005
75	47_Unbias	-0.174	-0.174	0.000
75	48_Unbias	-0.176	-0.177	0.001
75	49_Unbias	-0.175	-0.176	0.001
75	50_Unbias	-0.173	-0.174	0.001
75	51_Unbias	-0.173	-0.174	0.001
	Max	-0.172	-0.173	0.005
	Average	-0.177	-0.178	0.001
	Min	-0.191	-0.196	0.000
	Std Dev	0.006	0.008	0.002



3400.2_IIL_CANH_N7V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.445	mA

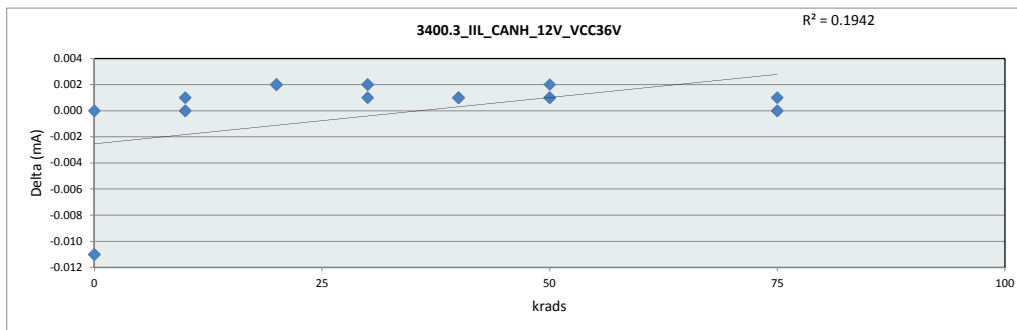
krads	0	10	20	30	40	50	75
LL	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.196	-0.177	-0.176	-0.176	-0.176	-0.177	-0.177
Average	-0.194	-0.175	-0.175	-0.175	-0.175	-0.175	-0.175
Max	-0.191	-0.173	-0.173	-0.173	-0.173	-0.174	-0.174
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report HVD233 Boac Teos

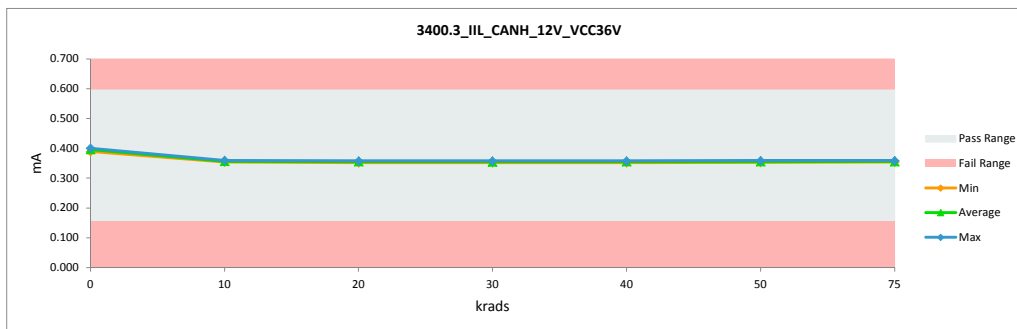
3400.3_IIL_CANH_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.595	0.595
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.389	0.389	0.000
10	27_Unbias	0.354	0.354	0.000
10	28_Unbias	0.355	0.355	0.000
10	29_Unbias	0.360	0.359	0.001
10	30_Unbias	0.361	0.360	0.001
10	31_Unbias	0.355	0.355	0.000
0	2_corr	0.389	0.389	0.000
20	32_Unbias	0.356	0.354	0.002
20	33_Unbias	0.360	0.358	0.002
20	34_Unbias	0.354	0.352	0.002
20	35_Unbias	0.359	0.357	0.002
20	36_Unbias	0.358	0.356	0.002
0	2	0.389	0.400	-0.011
30	37_Unbias	0.357	0.355	0.002
30	38_Unbias	0.354	0.352	0.002
30	39_Unbias	0.360	0.358	0.002
30	40_Unbias	0.358	0.357	0.001
30	41_Unbias	0.353	0.352	0.001
0	2_corr	0.389	0.400	-0.011
40	42_Unbias	0.358	0.357	0.001
40	43_Unbias	0.355	0.354	0.001
40	44_Unbias	0.358	0.357	0.001
40	45_Unbias	0.353	0.352	0.001
40	46_Unbias	0.359	0.358	0.001
0	2	0.389	0.400	-0.011
50	47_Unbias	0.355	0.354	0.001
50	48_Unbias	0.360	0.359	0.001
50	49_Unbias	0.358	0.356	0.002
50	50_Unbias	0.354	0.353	0.001
50	51_Unbias	0.354	0.353	0.001
0	2	0.389	0.400	-0.011
75	47_Unbias	0.355	0.355	0.000
75	48_Unbias	0.360	0.359	0.001
75	49_Unbias	0.358	0.357	0.001
75	50_Unbias	0.354	0.354	0.000
75	51_Unbias	0.354	0.354	0.000
	Max	0.389	0.400	0.002
	Average	0.362	0.362	0.000
	Min	0.353	0.352	-0.011
	Std Dev	0.012	0.016	0.004



3400.3_IIL_CANH_12V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.595	mA
Min Limit	0.155	mA

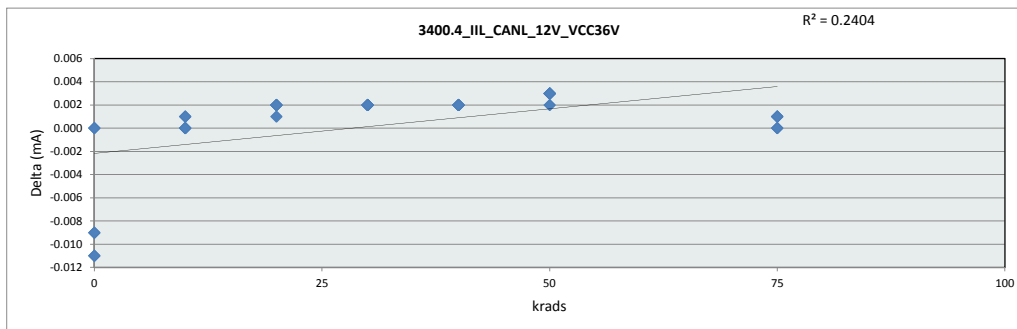
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.389	0.354	0.352	0.352	0.352	0.353	0.354
Average	0.396	0.357	0.355	0.355	0.356	0.355	0.356
Max	0.400	0.360	0.358	0.358	0.358	0.359	0.359
UL	0.595	0.595	0.595	0.595	0.595	0.595	0.595



TID 75k LDR Report HVD233 Boac Teos

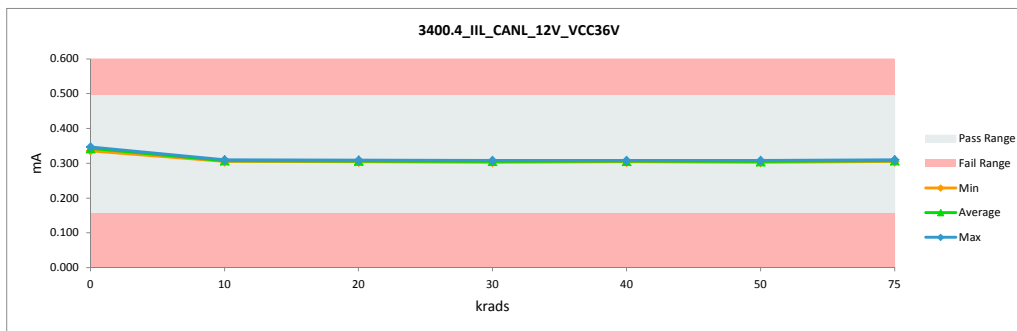
3400.4_IIL_CANL_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.495	0.495
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.336	0.336	0.000
10	27_Unbias	0.306	0.305	0.001
10	28_Unbias	0.306	0.306	0.000
10	29_Unbias	0.310	0.310	0.000
10	30_Unbias	0.311	0.310	0.001
10	31_Unbias	0.306	0.306	0.000
0	2_corr	0.336	0.336	0.000
20	32_Unbias	0.307	0.305	0.002
20	33_Unbias	0.311	0.309	0.002
20	34_Unbias	0.305	0.304	0.001
20	35_Unbias	0.309	0.307	0.002
20	36_Unbias	0.309	0.307	0.002
0	2	0.336	0.345	-0.009
30	37_Unbias	0.308	0.306	0.002
30	38_Unbias	0.305	0.303	0.002
30	39_Unbias	0.310	0.308	0.002
30	40_Unbias	0.309	0.307	0.002
30	41_Unbias	0.305	0.303	0.002
0	2_corr	0.336	0.345	-0.009
40	42_Unbias	0.309	0.307	0.002
40	43_Unbias	0.306	0.304	0.002
40	44_Unbias	0.308	0.306	0.002
40	45_Unbias	0.306	0.304	0.002
40	46_Unbias	0.310	0.308	0.002
0	2	0.336	0.347	-0.011
50	47_Unbias	0.307	0.304	0.003
50	48_Unbias	0.311	0.308	0.003
50	49_Unbias	0.309	0.307	0.002
50	50_Unbias	0.306	0.303	0.003
50	51_Unbias	0.306	0.303	0.003
0	2	0.336	0.347	-0.011
75	47_Unbias	0.307	0.306	0.001
75	48_Unbias	0.311	0.310	0.001
75	49_Unbias	0.309	0.309	0.000
75	50_Unbias	0.306	0.305	0.001
75	51_Unbias	0.306	0.306	0.000
	Max	0.336	0.347	0.003
	Average	0.312	0.312	0.000
	Min	0.305	0.303	-0.011
	Std Dev	0.011	0.014	0.004



3400.4_IIL_CANL_12V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.495	mA
Min Limit	0.155	mA

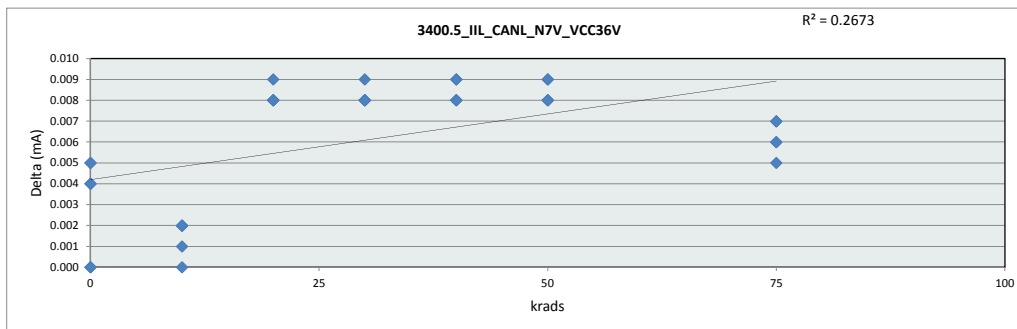
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.336	0.305	0.304	0.303	0.304	0.303	0.305
Average	0.343	0.307	0.306	0.305	0.306	0.305	0.307
Max	0.347	0.310	0.309	0.308	0.308	0.308	0.310
UL	0.495	0.495	0.495	0.495	0.495	0.495	0.495



TID 75k LDR Report
HVD233 Boac Teos

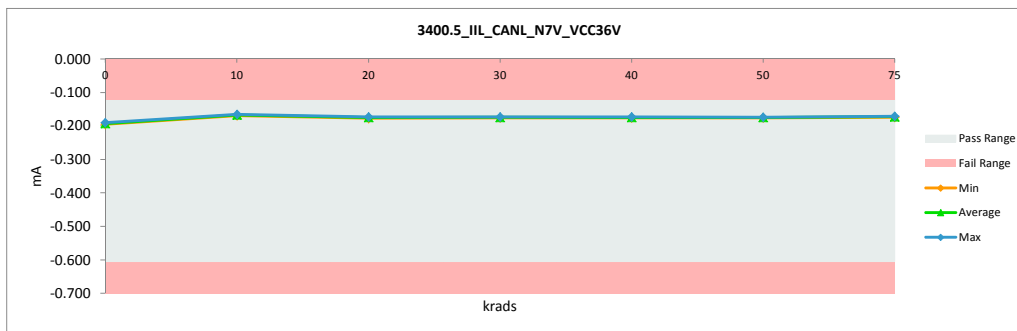
3400.5_IIL_CANL_N7V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.190	-0.190	0.000
10	27_Unbias	-0.165	-0.165	0.000
10	28_Unbias	-0.165	-0.167	0.002
10	29_Unbias	-0.167	-0.169	0.002
10	30_Unbias	-0.168	-0.169	0.001
10	31_Unbias	-0.165	-0.167	0.002
0	2_corr	-0.190	-0.190	0.000
20	32_Unbias	-0.166	-0.174	0.008
20	33_Unbias	-0.168	-0.177	0.009
20	34_Unbias	-0.165	-0.173	0.008
20	35_Unbias	-0.167	-0.175	0.008
20	36_Unbias	-0.167	-0.175	0.008
0	2	-0.190	-0.195	0.005
30	37_Unbias	-0.166	-0.174	0.008
30	38_Unbias	-0.165	-0.173	0.008
30	39_Unbias	-0.167	-0.176	0.009
30	40_Unbias	-0.167	-0.175	0.008
30	41_Unbias	-0.165	-0.173	0.008
0	2_corr	-0.190	-0.195	0.005
40	42_Unbias	-0.167	-0.175	0.008
40	43_Unbias	-0.165	-0.174	0.009
40	44_Unbias	-0.167	-0.175	0.008
40	45_Unbias	-0.165	-0.173	0.008
40	46_Unbias	-0.167	-0.176	0.009
0	2	-0.190	-0.194	0.004
50	47_Unbias	-0.166	-0.174	0.008
50	48_Unbias	-0.168	-0.176	0.008
50	49_Unbias	-0.167	-0.175	0.008
50	50_Unbias	-0.165	-0.174	0.009
50	51_Unbias	-0.165	-0.174	0.009
0	2	-0.190	-0.194	0.004
75	47_Unbias	-0.166	-0.171	0.005
75	48_Unbias	-0.168	-0.174	0.006
75	49_Unbias	-0.167	-0.174	0.007
75	50_Unbias	-0.165	-0.172	0.007
75	51_Unbias	-0.165	-0.171	0.006
	Max	-0.165	-0.165	0.009
	Average	-0.170	-0.176	0.006
	Min	-0.190	-0.195	0.000
	Std Dev	0.009	0.008	0.003



3400.5_IIL_CANL_N7V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.605	mA

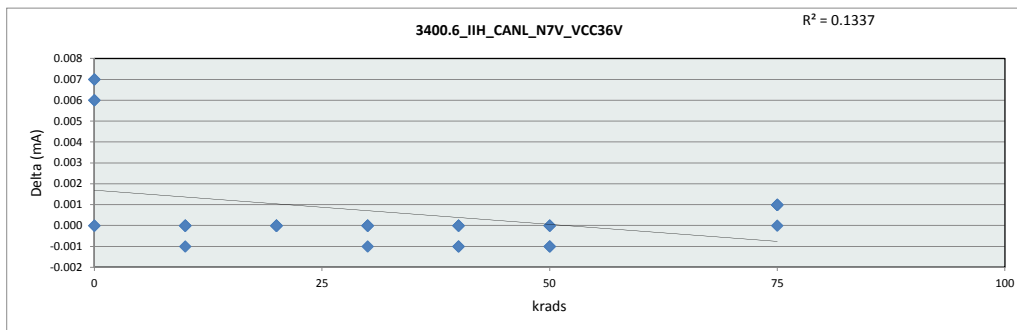
krads	0	10	20	30	40	50	75
LL	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.195	-0.169	-0.177	-0.176	-0.176	-0.176	-0.174
Average	-0.193	-0.167	-0.175	-0.174	-0.175	-0.175	-0.172
Max	-0.190	-0.165	-0.173	-0.173	-0.173	-0.174	-0.171
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report
HVD233 Boac Teos

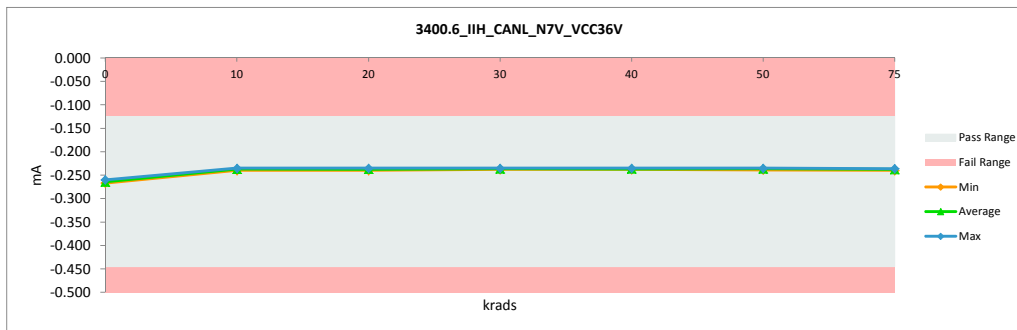
3400.6_I1H_CANL_N7V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbias	Delta
0	2_corr	-0.260	-0.260	0.000
10	27_Unbias	-0.236	-0.235	-0.001
10	28_Unbias	-0.236	-0.236	0.000
10	29_Unbias	-0.239	-0.239	0.000
10	30_Unbias	-0.240	-0.240	0.000
10	31_Unbias	-0.236	-0.236	0.000
0	2_corr	-0.260	-0.260	0.000
20	32_Unbias	-0.236	-0.236	0.000
20	33_Unbias	-0.240	-0.240	0.000
20	34_Unbias	-0.235	-0.235	0.000
20	35_Unbias	-0.238	-0.238	0.000
20	36_Unbias	-0.238	-0.238	0.000
0	2	-0.260	-0.266	0.006
30	37_Unbias	-0.237	-0.237	0.000
30	38_Unbias	-0.235	-0.235	0.000
30	39_Unbias	-0.239	-0.238	-0.001
30	40_Unbias	-0.238	-0.238	0.000
30	41_Unbias	-0.235	-0.235	0.000
0	2_corr	-0.260	-0.266	0.006
40	42_Unbias	-0.238	-0.238	0.000
40	43_Unbias	-0.236	-0.236	0.000
40	44_Unbias	-0.238	-0.237	-0.001
40	45_Unbias	-0.235	-0.235	0.000
40	46_Unbias	-0.239	-0.238	-0.001
0	2	-0.260	-0.267	0.007
50	47_Unbias	-0.236	-0.236	0.000
50	48_Unbias	-0.240	-0.239	-0.001
50	49_Unbias	-0.238	-0.238	0.000
50	50_Unbias	-0.235	-0.235	0.000
50	51_Unbias	-0.236	-0.235	-0.001
0	2	-0.260	-0.267	0.007
75	47_Unbias	-0.236	-0.237	0.001
75	48_Unbias	-0.240	-0.240	0.000
75	49_Unbias	-0.238	-0.239	0.001
75	50_Unbias	-0.235	-0.236	0.001
75	51_Unbias	-0.236	-0.237	0.001
	Max	-0.235	-0.235	0.007
	Average	-0.241	-0.242	0.001
	Min	-0.260	-0.267	-0.001
	Std Dev	0.009	0.010	0.002



3400.6_I1H_CANL_N7V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.445	mA

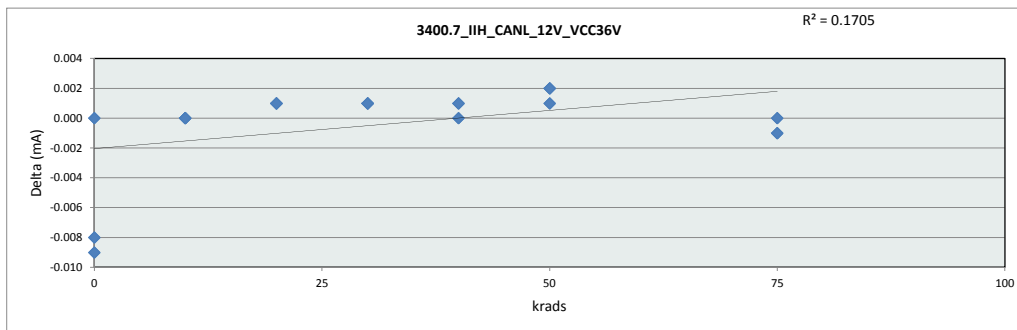
krads	0	10	20	30	40	50	75
LL	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.267	-0.240	-0.240	-0.238	-0.238	-0.239	-0.240
Average	-0.264	-0.237	-0.237	-0.237	-0.237	-0.237	-0.238
Max	-0.260	-0.235	-0.235	-0.235	-0.235	-0.235	-0.236
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report
HVD233 Boac Teos

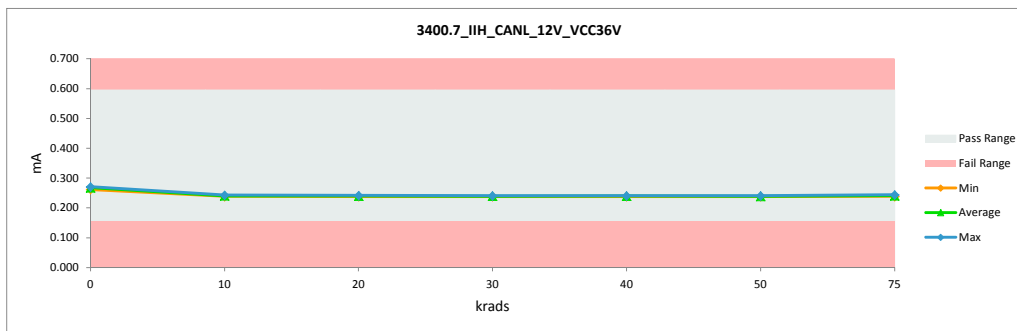
3400.7_I1H_CANL_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.595	0.595
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.262	0.262	0.000
10	27_Unbias	0.239	0.239	0.000
10	28_Unbias	0.239	0.239	0.000
10	29_Unbias	0.242	0.242	0.000
10	30_Unbias	0.243	0.243	0.000
10	31_Unbias	0.239	0.239	0.000
0	2_corr	0.262	0.262	0.000
20	32_Unbias	0.240	0.239	0.001
20	33_Unbias	0.243	0.242	0.001
20	34_Unbias	0.239	0.238	0.001
20	35_Unbias	0.241	0.240	0.001
20	36_Unbias	0.241	0.240	0.001
0	2	0.262	0.270	-0.008
30	37_Unbias	0.240	0.239	0.001
30	38_Unbias	0.239	0.238	0.001
30	39_Unbias	0.242	0.241	0.001
30	40_Unbias	0.242	0.241	0.001
30	41_Unbias	0.239	0.238	0.001
0	2_corr	0.262	0.270	-0.008
40	42_Unbias	0.241	0.241	0.000
40	43_Unbias	0.239	0.239	0.000
40	44_Unbias	0.241	0.240	0.001
40	45_Unbias	0.239	0.238	0.001
40	46_Unbias	0.242	0.241	0.001
0	2	0.262	0.271	-0.009
50	47_Unbias	0.240	0.238	0.002
50	48_Unbias	0.243	0.241	0.002
50	49_Unbias	0.242	0.240	0.002
50	50_Unbias	0.239	0.238	0.001
50	51_Unbias	0.239	0.238	0.001
0	2	0.262	0.271	-0.009
75	47_Unbias	0.240	0.240	0.000
75	48_Unbias	0.243	0.244	-0.001
75	49_Unbias	0.242	0.243	-0.001
75	50_Unbias	0.239	0.239	0.000
75	51_Unbias	0.239	0.240	-0.001
	Max	0.262	0.271	0.002
	Average	0.244	0.245	0.000
	Min	0.239	0.238	-0.009
	Std Dev	0.008	0.011	0.003



3400.7_I1H_CANL_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Max Limit	0.595	mA
Min Limit	0.155	mA

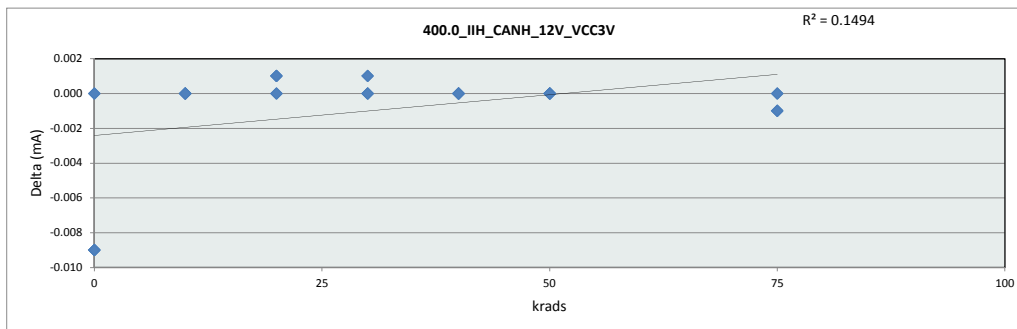
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.262	0.239	0.238	0.238	0.238	0.238	0.239
Average	0.268	0.240	0.240	0.239	0.240	0.239	0.241
Max	0.271	0.243	0.242	0.241	0.241	0.241	0.244
UL	0.595	0.595	0.595	0.595	0.595	0.595	0.595



TID 75k LDR Report
HVD233 Boac Teos

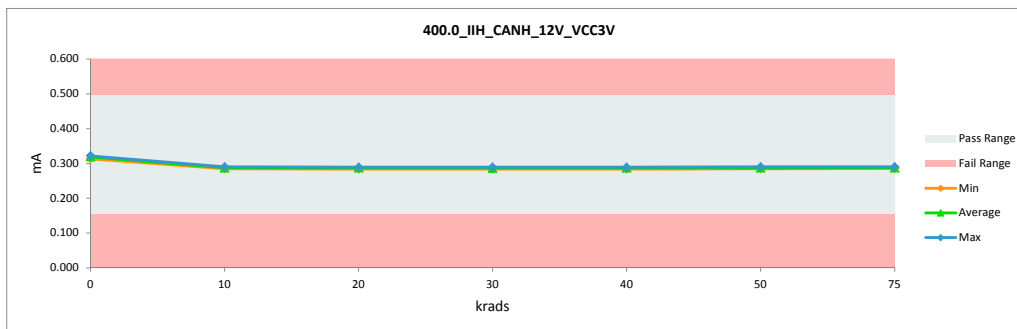
400.0_IIH_CANH_12V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.495	0.495
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.313	0.313	0.000
10	27_Unbias	0.285	0.285	0.000
10	28_Unbias	0.286	0.286	0.000
10	29_Unbias	0.289	0.289	0.000
10	30_Unbias	0.290	0.290	0.000
10	31_Unbias	0.286	0.286	0.000
0	2_corr	0.313	0.313	0.000
20	32_Unbias	0.286	0.286	0.000
20	33_Unbias	0.289	0.289	0.000
20	34_Unbias	0.285	0.284	0.001
20	35_Unbias	0.289	0.288	0.001
20	36_Unbias	0.288	0.287	0.001
0	2	0.313	0.322	-0.009
30	37_Unbias	0.287	0.287	0.000
30	38_Unbias	0.285	0.284	0.001
30	39_Unbias	0.290	0.289	0.001
30	40_Unbias	0.288	0.288	0.000
30	41_Unbias	0.284	0.284	0.000
0	2_corr	0.313	0.322	-0.009
40	42_Unbias	0.288	0.288	0.000
40	43_Unbias	0.286	0.286	0.000
40	44_Unbias	0.288	0.288	0.000
40	45_Unbias	0.284	0.284	0.000
40	46_Unbias	0.289	0.289	0.000
0	2	0.313	0.322	-0.009
50	47_Unbias	0.286	0.286	0.000
50	48_Unbias	0.290	0.290	0.000
50	49_Unbias	0.288	0.288	0.000
50	50_Unbias	0.285	0.285	0.000
50	51_Unbias	0.285	0.285	0.000
0	2	0.313	0.322	-0.009
75	47_Unbias	0.286	0.286	0.000
75	48_Unbias	0.290	0.290	0.000
75	49_Unbias	0.288	0.289	-0.001
75	50_Unbias	0.285	0.286	-0.001
75	51_Unbias	0.285	0.286	-0.001
	Max	0.313	0.322	0.001
	Average	0.291	0.292	-0.001
	Min	0.284	0.284	-0.009
	Std Dev	0.010	0.012	0.003



400.0_IIH_CANH_12V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.495	mA
Min Limit	0.155	mA

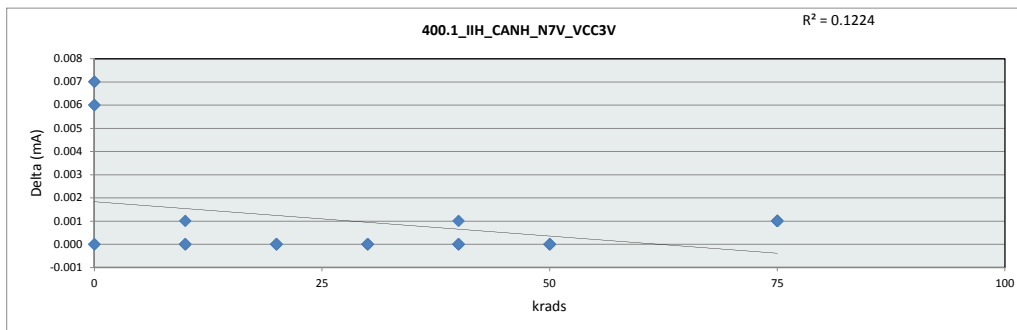
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.313	0.285	0.284	0.284	0.284	0.285	0.286
Average	0.319	0.287	0.287	0.286	0.287	0.287	0.287
Max	0.322	0.290	0.289	0.289	0.289	0.290	0.290
UL	0.495	0.495	0.495	0.495	0.495	0.495	0.495



TID 75k LDR Report
HVD233 Boac Teos

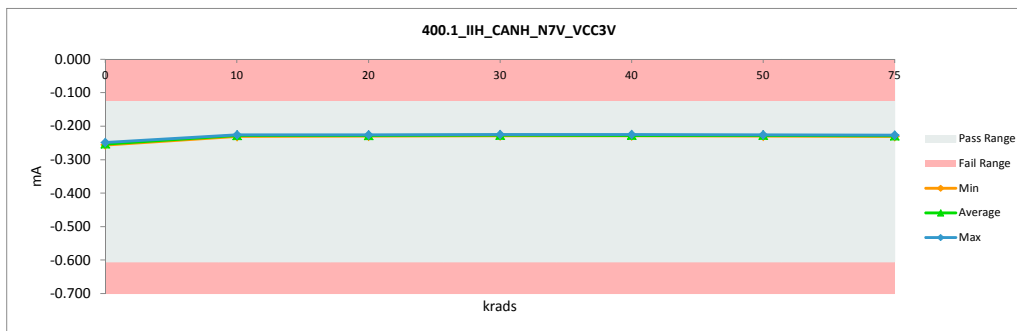
400.1_IIH_CANH_N7V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.249	-0.249	0.000
10	27_Unbias	-0.226	-0.226	0.000
10	28_Unbias	-0.227	-0.227	0.000
10	29_Unbias	-0.230	-0.230	0.000
10	30_Unbias	-0.230	-0.231	0.001
10	31_Unbias	-0.227	-0.227	0.000
0	2_corr	-0.249	-0.249	0.000
20	32_Unbias	-0.227	-0.227	0.000
20	33_Unbias	-0.230	-0.230	0.000
20	34_Unbias	-0.226	-0.226	0.000
20	35_Unbias	-0.229	-0.229	0.000
20	36_Unbias	-0.228	-0.228	0.000
0	2	-0.249	-0.255	0.006
30	37_Unbias	-0.227	-0.227	0.000
30	38_Unbias	-0.226	-0.226	0.000
30	39_Unbias	-0.229	-0.229	0.000
30	40_Unbias	-0.229	-0.229	0.000
30	41_Unbias	-0.225	-0.225	0.000
0	2_corr	-0.249	-0.255	0.006
40	42_Unbias	-0.229	-0.229	0.000
40	43_Unbias	-0.226	-0.227	0.001
40	44_Unbias	-0.228	-0.228	0.000
40	45_Unbias	-0.225	-0.225	0.000
40	46_Unbias	-0.229	-0.229	0.000
0	2	-0.249	-0.256	0.007
50	47_Unbias	-0.227	-0.227	0.000
50	48_Unbias	-0.230	-0.230	0.000
50	49_Unbias	-0.229	-0.229	0.000
50	50_Unbias	-0.226	-0.226	0.000
50	51_Unbias	-0.226	-0.226	0.000
0	2	-0.249	-0.256	0.007
75	47_Unbias	-0.227	-0.228	0.001
75	48_Unbias	-0.230	-0.231	0.001
75	49_Unbias	-0.229	-0.230	0.001
75	50_Unbias	-0.226	-0.227	0.001
75	51_Unbias	-0.226	-0.227	0.001
	Max	-0.225	-0.225	0.007
	Average	-0.231	-0.232	0.001
	Min	-0.249	-0.256	0.000
	Std Dev	0.008	0.010	0.002



400.1_IIH_CANH_N7V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.605	mA

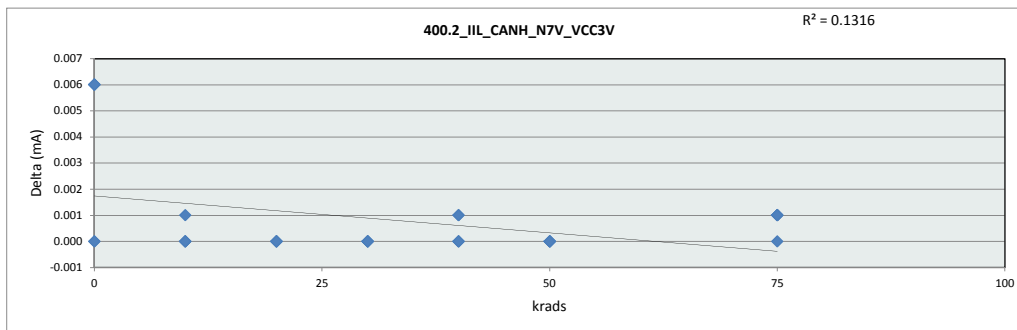
krads	0	10	20	30	40	50	75
LL	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.256	-0.231	-0.230	-0.229	-0.229	-0.230	-0.231
Average	-0.253	-0.228	-0.228	-0.227	-0.228	-0.228	-0.229
Max	-0.249	-0.226	-0.226	-0.225	-0.225	-0.226	-0.227
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report
HVD233 Boac Teos

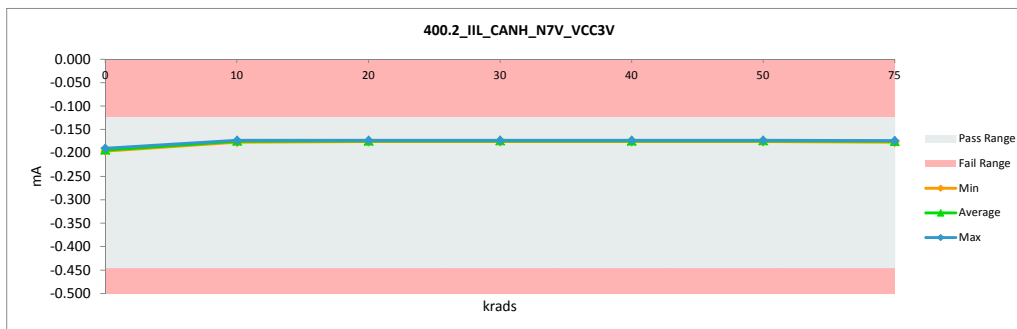
400.2_IIL_CANH_N7V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.190	-0.190	0.000
10	27_Unbias	-0.173	-0.173	0.000
10	28_Unbias	-0.174	-0.174	0.000
10	29_Unbias	-0.176	-0.176	0.000
10	30_Unbias	-0.176	-0.177	0.001
10	31_Unbias	-0.174	-0.174	0.000
0	2_corr	-0.190	-0.190	0.000
20	32_Unbias	-0.174	-0.174	0.000
20	33_Unbias	-0.176	-0.176	0.000
20	34_Unbias	-0.173	-0.173	0.000
20	35_Unbias	-0.175	-0.175	0.000
20	36_Unbias	-0.175	-0.175	0.000
0	2	-0.190	-0.196	0.006
30	37_Unbias	-0.174	-0.174	0.000
30	38_Unbias	-0.173	-0.173	0.000
30	39_Unbias	-0.176	-0.176	0.000
30	40_Unbias	-0.175	-0.175	0.000
30	41_Unbias	-0.173	-0.173	0.000
0	2_corr	-0.190	-0.196	0.006
40	42_Unbias	-0.175	-0.175	0.000
40	43_Unbias	-0.173	-0.174	0.001
40	44_Unbias	-0.175	-0.175	0.000
40	45_Unbias	-0.172	-0.173	0.001
40	46_Unbias	-0.176	-0.176	0.000
0	2	-0.190	-0.196	0.006
50	47_Unbias	-0.174	-0.174	0.000
50	48_Unbias	-0.176	-0.176	0.000
50	49_Unbias	-0.175	-0.175	0.000
50	50_Unbias	-0.173	-0.173	0.000
50	51_Unbias	-0.173	-0.173	0.000
0	2	-0.190	-0.196	0.006
75	47_Unbias	-0.174	-0.174	0.000
75	48_Unbias	-0.176	-0.177	0.001
75	49_Unbias	-0.175	-0.176	0.001
75	50_Unbias	-0.173	-0.174	0.001
75	51_Unbias	-0.173	-0.174	0.001
	Max	-0.172	-0.173	0.006
	Average	-0.177	-0.178	0.001
	Min	-0.190	-0.196	0.000
	Std Dev	0.006	0.008	0.002



400.2_IIL_CANH_N7V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.445	mA

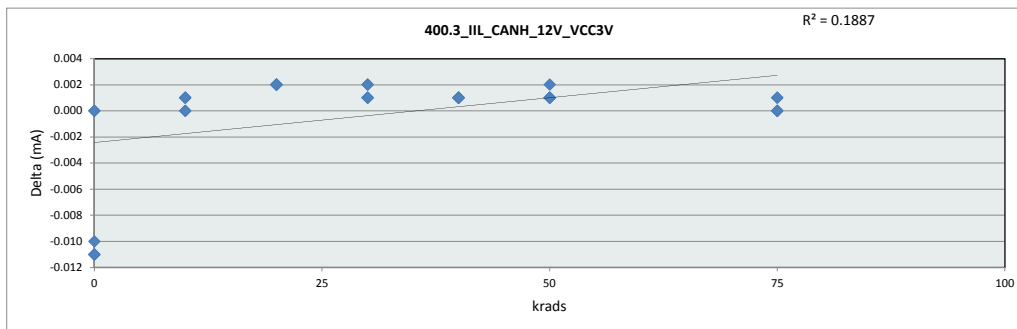
krads	0	10	20	30	40	50	75
LL	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.196	-0.177	-0.176	-0.176	-0.176	-0.176	-0.177
Average	-0.194	-0.175	-0.175	-0.174	-0.175	-0.174	-0.175
Max	-0.190	-0.173	-0.173	-0.173	-0.173	-0.173	-0.174
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report
HVD233 Boac Teos

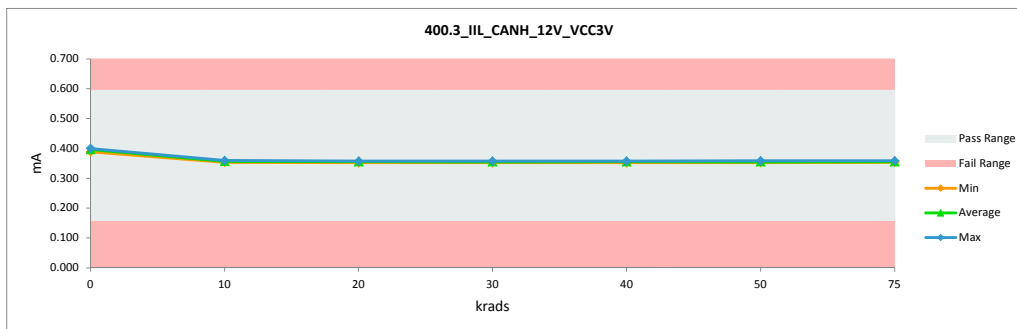
400.3_IIL_CANH_12V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.595	0.595
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.389	0.389	0.000
10	27_Unbias	0.355	0.354	0.001
10	28_Unbias	0.355	0.355	0.000
10	29_Unbias	0.360	0.359	0.001
10	30_Unbias	0.361	0.360	0.001
10	31_Unbias	0.355	0.355	0.000
0	2_corr	0.389	0.389	0.000
20	32_Unbias	0.356	0.354	0.002
20	33_Unbias	0.360	0.358	0.002
20	34_Unbias	0.354	0.352	0.002
20	35_Unbias	0.359	0.357	0.002
20	36_Unbias	0.358	0.356	0.002
0	2	0.389	0.399	-0.010
30	37_Unbias	0.357	0.355	0.002
30	38_Unbias	0.354	0.353	0.001
30	39_Unbias	0.360	0.358	0.002
30	40_Unbias	0.358	0.357	0.001
30	41_Unbias	0.353	0.352	0.001
0	2_corr	0.389	0.400	-0.011
40	42_Unbias	0.358	0.357	0.001
40	43_Unbias	0.355	0.354	0.001
40	44_Unbias	0.358	0.357	0.001
40	45_Unbias	0.353	0.352	0.001
40	46_Unbias	0.359	0.358	0.001
0	2	0.389	0.400	-0.011
50	47_Unbias	0.355	0.354	0.001
50	48_Unbias	0.360	0.359	0.001
50	49_Unbias	0.358	0.356	0.002
50	50_Unbias	0.354	0.353	0.001
50	51_Unbias	0.354	0.353	0.001
0	2	0.389	0.400	-0.011
75	47_Unbias	0.355	0.355	0.000
75	48_Unbias	0.360	0.359	0.001
75	49_Unbias	0.358	0.357	0.001
75	50_Unbias	0.354	0.354	0.000
75	51_Unbias	0.354	0.354	0.000
	Max	0.389	0.400	0.002
	Average	0.362	0.362	0.000
	Min	0.353	0.352	-0.011
	Std Dev	0.012	0.016	0.004



400.3_IIL_CANH_12V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.595	mA
Min Limit	0.155	mA

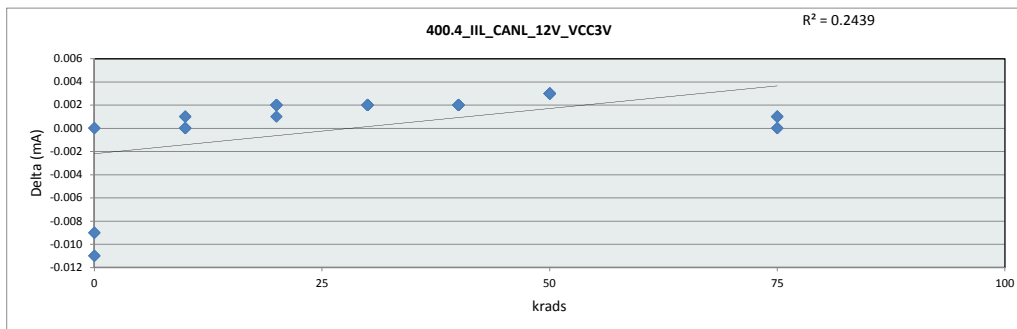
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.389	0.354	0.352	0.352	0.352	0.353	0.354
Average	0.396	0.357	0.355	0.355	0.356	0.355	0.356
Max	0.400	0.360	0.358	0.358	0.358	0.359	0.359
UL	0.595	0.595	0.595	0.595	0.595	0.595	0.595



TID 75k LDR Report HVD233 Boac Teos

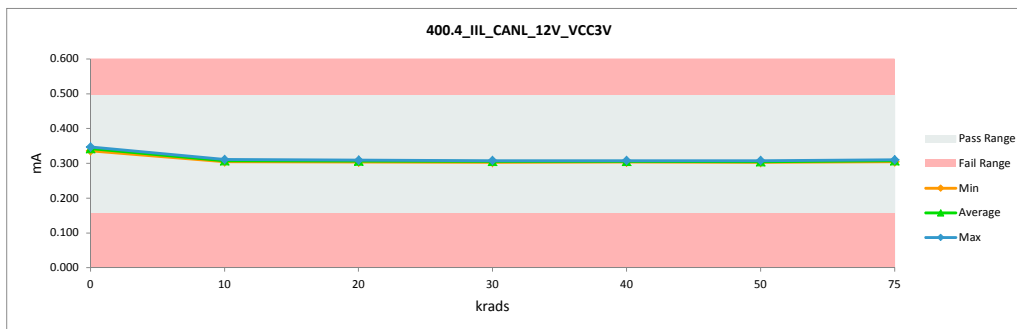
400.4_IIL_CANL_12V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.495	0.495
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	0.336	0.336	0.000
10	27_Unbias	0.306	0.305	0.001
10	28_Unbias	0.306	0.306	0.000
10	29_Unbias	0.310	0.309	0.001
10	30_Unbias	0.311	0.311	0.000
10	31_Unbias	0.306	0.306	0.000
0	2_corr	0.336	0.336	0.000
20	32_Unbias	0.307	0.305	0.002
20	33_Unbias	0.311	0.309	0.002
20	34_Unbias	0.305	0.304	0.001
20	35_Unbias	0.309	0.307	0.002
20	36_Unbias	0.309	0.307	0.002
0	2	0.336	0.345	-0.009
30	37_Unbias	0.308	0.306	0.002
30	38_Unbias	0.305	0.303	0.002
30	39_Unbias	0.310	0.308	0.002
30	40_Unbias	0.309	0.307	0.002
30	41_Unbias	0.305	0.303	0.002
0	2_corr	0.336	0.345	-0.009
40	42_Unbias	0.309	0.307	0.002
40	43_Unbias	0.306	0.304	0.002
40	44_Unbias	0.308	0.306	0.002
40	45_Unbias	0.306	0.304	0.002
40	46_Unbias	0.310	0.308	0.002
0	2	0.336	0.347	-0.011
50	47_Unbias	0.307	0.304	0.003
50	48_Unbias	0.311	0.308	0.003
50	49_Unbias	0.309	0.306	0.003
50	50_Unbias	0.306	0.303	0.003
50	51_Unbias	0.306	0.303	0.003
0	2	0.336	0.347	-0.011
75	47_Unbias	0.307	0.306	0.001
75	48_Unbias	0.311	0.310	0.001
75	49_Unbias	0.309	0.309	0.000
75	50_Unbias	0.306	0.305	0.001
75	51_Unbias	0.306	0.306	0.000
	Max	0.336	0.347	0.003
	Average	0.312	0.312	0.000
	Min	0.305	0.303	-0.011
	Std Dev	0.011	0.014	0.004



400.4_IIL_CANL_12V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.495	mA
Min Limit	0.155	mA

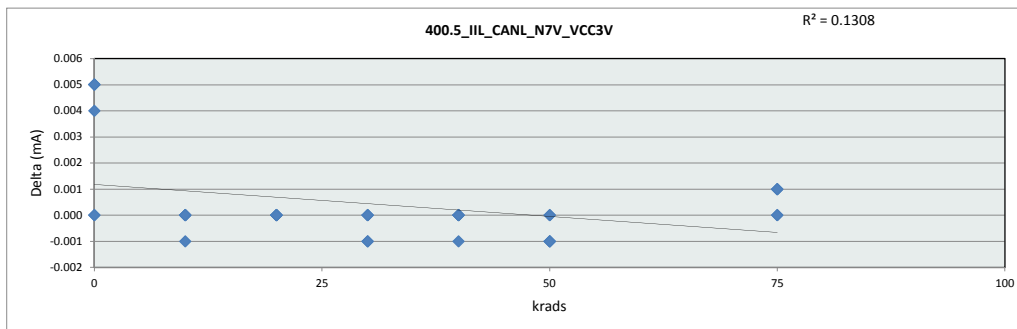
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.336	0.305	0.304	0.303	0.304	0.303	0.305
Average	0.343	0.307	0.306	0.305	0.306	0.305	0.307
Max	0.347	0.311	0.309	0.308	0.308	0.308	0.310
UL	0.495	0.495	0.495	0.495	0.495	0.495	0.495



TID 75k LDR Report
HVD233 Boac Teos

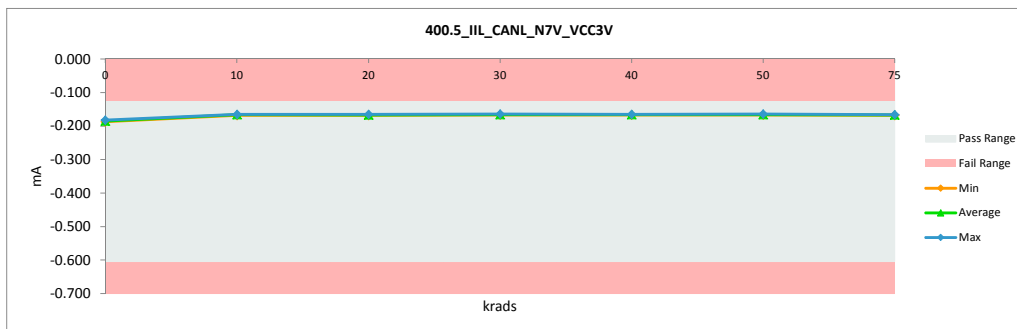
400.5_IIL_CANL_N7V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.605	-0.605

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.182	-0.182	0.000
10	27_Unbias	-0.165	-0.165	0.000
10	28_Unbias	-0.165	-0.165	0.000
10	29_Unbias	-0.167	-0.167	0.000
10	30_Unbias	-0.168	-0.168	0.000
10	31_Unbias	-0.166	-0.165	-0.001
0	2_corr	-0.182	-0.182	0.000
20	32_Unbias	-0.166	-0.166	0.000
20	33_Unbias	-0.168	-0.168	0.000
20	34_Unbias	-0.165	-0.165	0.000
20	35_Unbias	-0.167	-0.167	0.000
20	36_Unbias	-0.167	-0.167	0.000
0	2	-0.182	-0.186	0.004
30	37_Unbias	-0.166	-0.166	0.000
30	38_Unbias	-0.165	-0.164	-0.001
30	39_Unbias	-0.167	-0.167	0.000
30	40_Unbias	-0.167	-0.167	0.000
30	41_Unbias	-0.165	-0.164	-0.001
0	2_corr	-0.182	-0.187	0.005
40	42_Unbias	-0.167	-0.167	0.000
40	43_Unbias	-0.165	-0.165	0.000
40	44_Unbias	-0.167	-0.166	-0.001
40	45_Unbias	-0.165	-0.165	0.000
40	46_Unbias	-0.167	-0.167	0.000
0	2	-0.182	-0.187	0.005
50	47_Unbias	-0.166	-0.165	-0.001
50	48_Unbias	-0.168	-0.167	-0.001
50	49_Unbias	-0.167	-0.167	0.000
50	50_Unbias	-0.165	-0.164	-0.001
50	51_Unbias	-0.165	-0.165	0.000
0	2	-0.182	-0.187	0.005
75	47_Unbias	-0.166	-0.166	0.000
75	48_Unbias	-0.168	-0.168	0.000
75	49_Unbias	-0.167	-0.168	0.001
75	50_Unbias	-0.165	-0.166	0.001
75	51_Unbias	-0.165	-0.166	0.001
	Max	-0.165	-0.164	0.005
	Average	-0.169	-0.169	0.000
	Min	-0.182	-0.187	-0.001
	Std Dev	0.006	0.007	0.002



400.5_IIL_CANL_N7V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.605	mA

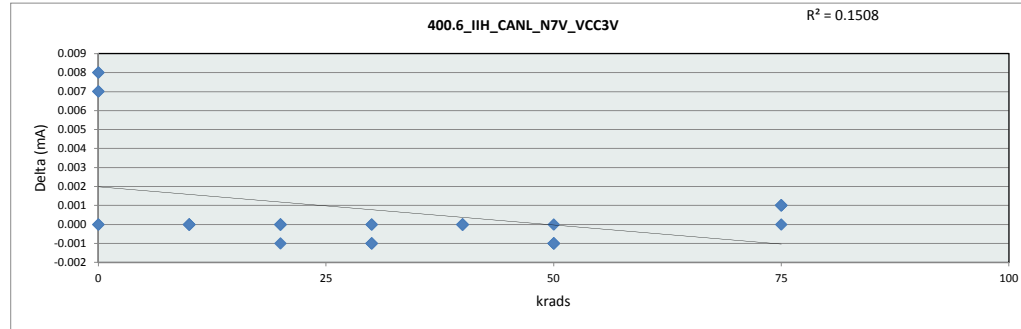
krads	0	10	20	30	40	50	75
LL	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605	-0.605
Min	-0.187	-0.168	-0.168	-0.167	-0.167	-0.167	-0.168
Average	-0.185	-0.166	-0.167	-0.166	-0.166	-0.166	-0.167
Max	-0.182	-0.165	-0.165	-0.164	-0.165	-0.164	-0.166
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report
HVD233 Boac Teos

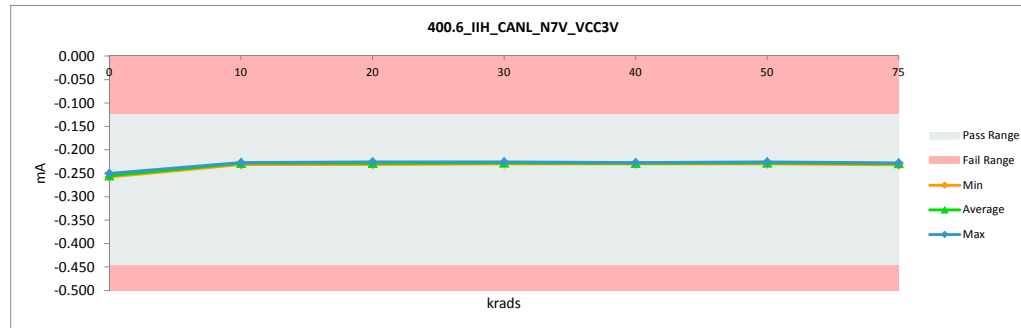
400.6_I1H_CANL_N7V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	-0.123	-0.123
Min Limit	-0.445	-0.445

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-0.250	-0.250	0.000
10	27_Unbias	-0.227	-0.227	0.000
10	28_Unbias	-0.227	-0.227	0.000
10	29_Unbias	-0.230	-0.230	0.000
10	30_Unbias	-0.231	-0.231	0.000
10	31_Unbias	-0.227	-0.227	0.000
0	2_corr	-0.250	-0.250	0.000
20	32_Unbias	-0.228	-0.228	0.000
20	33_Unbias	-0.231	-0.231	0.000
20	34_Unbias	-0.227	-0.226	-0.001
20	35_Unbias	-0.229	-0.229	0.000
20	36_Unbias	-0.229	-0.229	0.000
0	2	-0.250	-0.257	0.007
30	37_Unbias	-0.228	-0.228	0.000
30	38_Unbias	-0.227	-0.226	-0.001
30	39_Unbias	-0.230	-0.230	0.000
30	40_Unbias	-0.230	-0.229	-0.001
30	41_Unbias	-0.227	-0.226	-0.001
0	2_corr	-0.250	-0.257	0.007
40	42_Unbias	-0.229	-0.229	0.000
40	43_Unbias	-0.227	-0.227	0.000
40	44_Unbias	-0.229	-0.229	0.000
40	45_Unbias	-0.227	-0.227	0.000
40	46_Unbias	-0.230	-0.230	0.000
0	2	-0.250	-0.258	0.008
50	47_Unbias	-0.228	-0.227	-0.001
50	48_Unbias	-0.231	-0.230	-0.001
50	49_Unbias	-0.230	-0.229	-0.001
50	50_Unbias	-0.227	-0.226	-0.001
50	51_Unbias	-0.227	-0.227	0.000
0	2	-0.250	-0.258	0.008
75	47_Unbias	-0.228	-0.228	0.000
75	48_Unbias	-0.231	-0.232	0.001
75	49_Unbias	-0.230	-0.231	0.001
75	50_Unbias	-0.227	-0.228	0.001
75	51_Unbias	-0.227	-0.228	0.001
	Max	-0.227	-0.226	0.008
	Average	-0.232	-0.233	0.001
	Min	-0.250	-0.258	-0.001
	Std Dev	0.008	0.010	0.003



400.6_I1H_CANL_N7V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	-0.123	mA
Min Limit	-0.445	mA

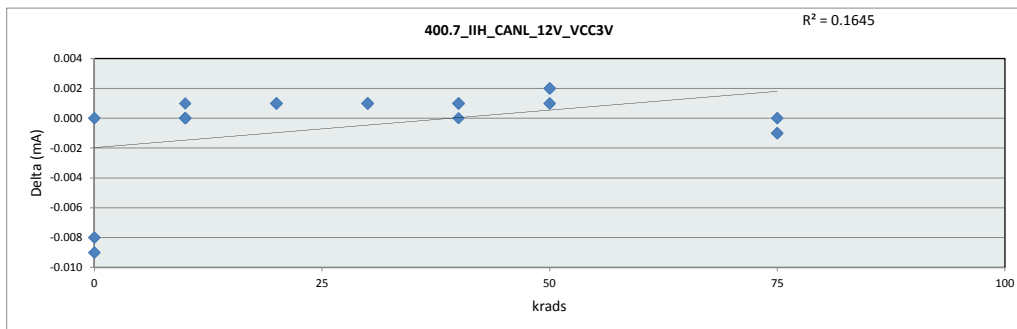
krads	0	10	20	30	40	50	75
LL	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445	-0.445
Min	-0.258	-0.231	-0.231	-0.230	-0.230	-0.230	-0.232
Average	-0.255	-0.228	-0.229	-0.228	-0.228	-0.228	-0.229
Max	-0.250	-0.227	-0.226	-0.226	-0.227	-0.226	-0.228
UL	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123	-0.123



TID 75k LDR Report HVD233 Boac Teos

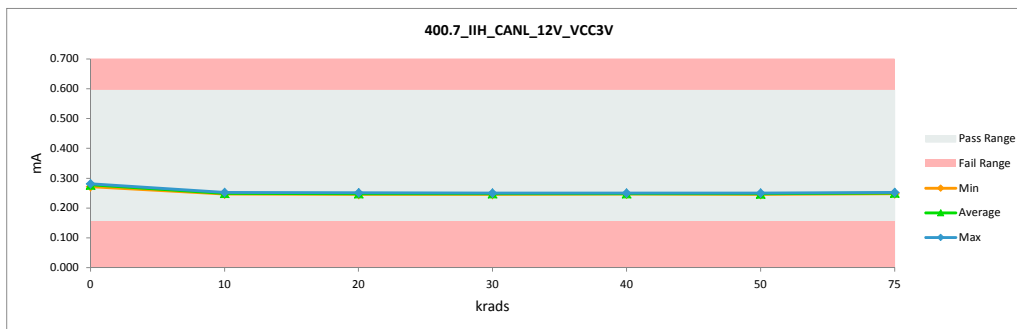
400.7_IH_CANL_12V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.595	0.595
Min Limit	0.155	0.155

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.272	0.272	0.000
10	27_Unbias	0.248	0.247	0.001
10	28_Unbias	0.248	0.248	0.000
10	29_Unbias	0.251	0.251	0.000
10	30_Unbias	0.252	0.252	0.000
10	31_Unbias	0.248	0.248	0.000
0	2_corr	0.272	0.272	0.000
20	32_Unbias	0.248	0.247	0.001
20	33_Unbias	0.252	0.251	0.001
20	34_Unbias	0.247	0.246	0.001
20	35_Unbias	0.250	0.249	0.001
20	36_Unbias	0.250	0.249	0.001
0	2	0.272	0.280	-0.008
30	37_Unbias	0.249	0.248	0.001
30	38_Unbias	0.247	0.246	0.001
30	39_Unbias	0.251	0.250	0.001
30	40_Unbias	0.250	0.249	0.001
30	41_Unbias	0.247	0.246	0.001
0	2_corr	0.272	0.280	-0.008
40	42_Unbias	0.250	0.249	0.001
40	43_Unbias	0.248	0.247	0.001
40	44_Unbias	0.250	0.249	0.001
40	45_Unbias	0.247	0.247	0.000
40	46_Unbias	0.251	0.250	0.001
0	2	0.272	0.281	-0.009
50	47_Unbias	0.248	0.247	0.001
50	48_Unbias	0.252	0.250	0.002
50	49_Unbias	0.250	0.249	0.001
50	50_Unbias	0.248	0.246	0.002
50	51_Unbias	0.248	0.246	0.002
0	2	0.272	0.281	-0.009
75	47_Unbias	0.248	0.249	-0.001
75	48_Unbias	0.252	0.252	0.000
75	49_Unbias	0.250	0.251	-0.001
75	50_Unbias	0.248	0.248	0.000
75	51_Unbias	0.248	0.249	-0.001
	Max	0.272	0.281	0.002
	Average	0.253	0.253	0.000
	Min	0.247	0.246	-0.009
	Std Dev	0.009	0.011	0.003



400.7_IH_CANL_12V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.595	mA
Min Limit	0.155	mA

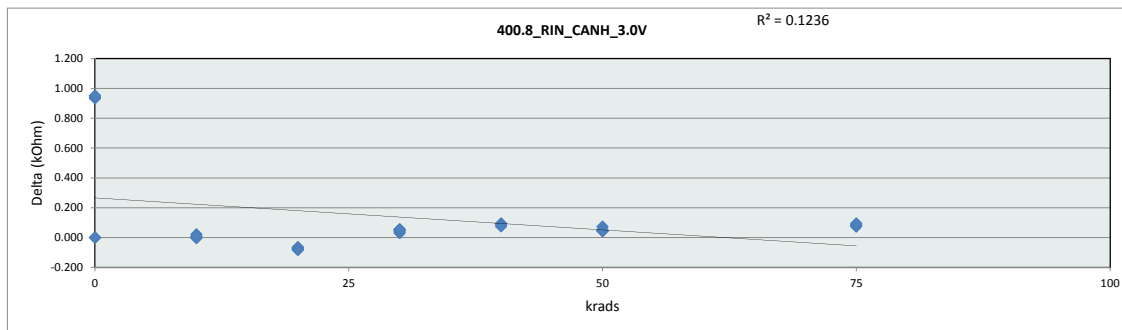
krads	0	10	20	30	40	50	75
LL	0.155	0.155	0.155	0.155	0.155	0.155	0.155
Min	0.272	0.247	0.246	0.246	0.247	0.246	0.248
Average	0.278	0.249	0.248	0.248	0.248	0.248	0.250
Max	0.281	0.252	0.251	0.250	0.250	0.250	0.252
UL	0.595	0.595	0.595	0.595	0.595	0.595	0.595



TID 75k LDR Report
HVD233 Boac Teos

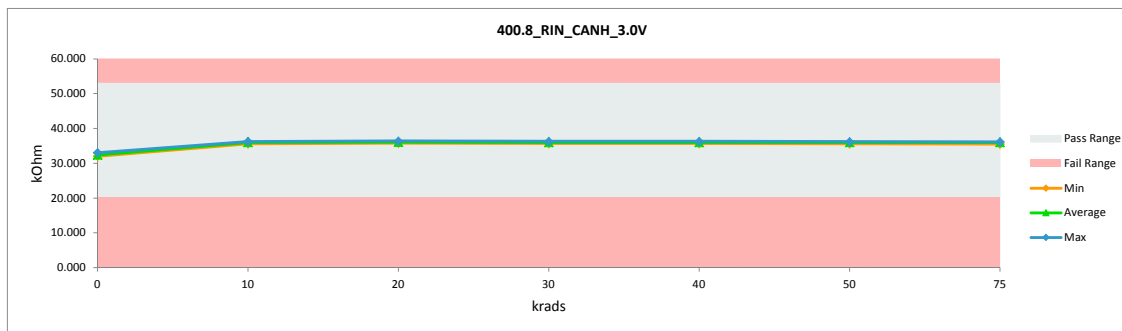
400.8_RIN_CANH_3.0V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	kOhm	kOhm
Max Limit	53	53
Min Limit	20.1	20.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	33.008	33.008	0.000
10	27_Unbias	36.245	36.242	0.003
10	28_Unbias	36.159	36.162	-0.003
10	29_Unbias	35.715	35.694	0.021
10	30_Unbias	35.581	35.575	0.006
10	31_Unbias	36.163	36.158	0.005
0	2_corr	33.008	33.008	0.000
20	32_Unbias	36.106	36.182	-0.076
20	33_Unbias	35.717	35.782	-0.065
20	34_Unbias	36.326	36.394	-0.068
20	35_Unbias	35.806	35.881	-0.075
20	36_Unbias	35.919	36.003	-0.084
0	2	33.008	32.071	0.937
30	37_Unbias	36.029	35.981	0.048
30	38_Unbias	36.308	36.278	0.030
30	39_Unbias	35.721	35.681	0.040
30	40_Unbias	35.842	35.786	0.056
30	41_Unbias	36.352	36.299	0.053
0	2_corr	33.008	32.075	0.933
40	42_Unbias	35.859	35.768	0.091
40	43_Unbias	36.198	36.109	0.089
40	44_Unbias	35.928	35.837	0.091
40	45_Unbias	36.395	36.301	0.094
40	46_Unbias	35.758	35.682	0.076
0	2	33.008	32.058	0.950
50	47_Unbias	36.149	36.075	0.074
50	48_Unbias	35.626	35.575	0.051
50	49_Unbias	35.859	35.814	0.045
50	50_Unbias	36.247	36.199	0.048
50	51_Unbias	36.250	36.207	0.043
0	2	33.008	32.058	0.950
75	47_Unbias	36.149	36.072	0.077
75	48_Unbias	35.626	35.553	0.073
75	49_Unbias	35.859	35.775	0.084
75	50_Unbias	36.247	36.161	0.086
75	51_Unbias	36.250	36.156	0.094
	Max	36.395	36.394	0.950
	Average	35.512	35.379	0.133
	Min	33.008	32.058	-0.084
	Std Dev	1.158	1.392	0.295



400.8_RIN_CANH_3.0V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	53	kOhm
Min Limit	20.1	kOhm

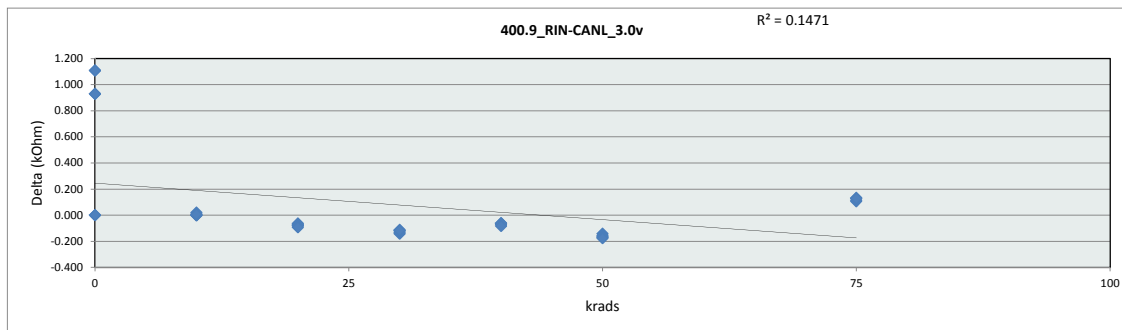
krads	0	10	20	30	40	50	75
LL	20.100	20.100	20.100	20.100	20.100	20.100	20.100
Min	32.058	35.575	35.782	35.681	35.682	35.575	35.553
Average	32.380	35.966	36.048	36.005	35.939	35.974	35.943
Max	33.008	36.242	36.394	36.299	36.301	36.207	36.161
UL	53.000	53.000	53.000	53.000	53.000	53.000	53.000



TID 75k LDR Report
HVD233 Boac Teos

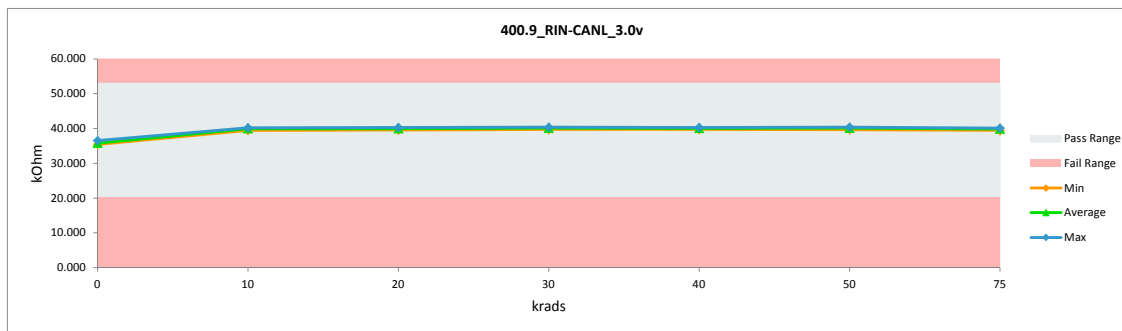
400.9_RIN-CANL_3.0v		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	kOhm	kOhm
Max Limit	53	53
Min Limit	20.1	20.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	36.498	36.498	0.000
10	27_Unbias	40.191	40.193	-0.002
10	28_Unbias	40.126	40.126	0.000
10	29_Unbias	39.653	39.632	0.021
10	30_Unbias	39.499	39.495	0.004
10	31_Unbias	40.120	40.113	0.007
0	2_corr	36.498	36.498	0.000
20	32_Unbias	40.058	40.138	-0.080
20	33_Unbias	39.532	39.596	-0.064
20	34_Unbias	40.259	40.330	-0.071
20	35_Unbias	39.762	39.840	-0.078
20	36_Unbias	39.812	39.904	-0.092
0	2	36.498	35.568	0.930
30	37_Unbias	39.943	40.062	-0.119
30	38_Unbias	40.245	40.387	-0.142
30	39_Unbias	39.638	39.769	-0.131
30	40_Unbias	39.731	39.843	-0.112
30	41_Unbias	40.266	40.383	-0.117
0	2_corr	36.498	35.568	0.930
40	42_Unbias	39.784	39.850	-0.066
40	43_Unbias	40.127	40.198	-0.071
40	44_Unbias	39.869	39.933	-0.064
40	45_Unbias	40.233	40.293	-0.060
40	46_Unbias	39.681	39.763	-0.082
0	2	36.498	35.390	1.108
50	47_Unbias	40.074	40.215	-0.141
50	48_Unbias	39.533	39.689	-0.156
50	49_Unbias	39.726	39.893	-0.167
50	50_Unbias	40.212	40.380	-0.168
50	51_Unbias	40.133	40.309	-0.176
0	2	36.498	35.390	1.108
75	47_Unbias	40.074	39.967	0.107
75	48_Unbias	39.533	39.420	0.113
75	49_Unbias	39.726	39.598	0.128
75	50_Unbias	40.212	40.078	0.134
75	51_Unbias	40.133	40.004	0.129
	Max	40.266	40.387	1.108
	Average	39.358	39.286	0.071
	Min	36.498	35.390	-0.176
	Std Dev	1.318	1.606	0.352



400.9_RIN-CANL_3.0v		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Max Limit	53	kOhm
Min Limit	20.1	kOhm

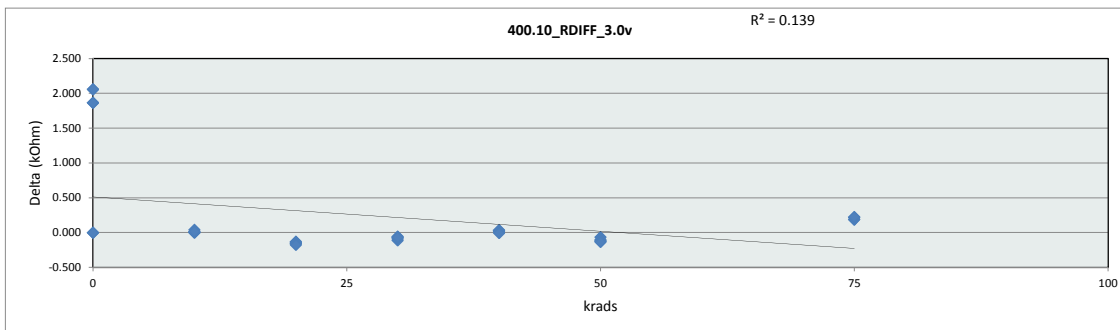
krads	0	10	20	30	40	50	75
LL	20.100	20.100	20.100	20.100	20.100	20.100	20.100
Min	35.390	39.495	39.596	39.769	39.763	39.689	39.420
Average	35.819	39.912	39.962	40.089	40.007	40.097	39.813
Max	36.498	40.193	40.330	40.387	40.293	40.380	40.078
UL	53.000	53.000	53.000	53.000	53.000	53.000	53.000



TID 75k LDR Report
HVD233 Boac Teos

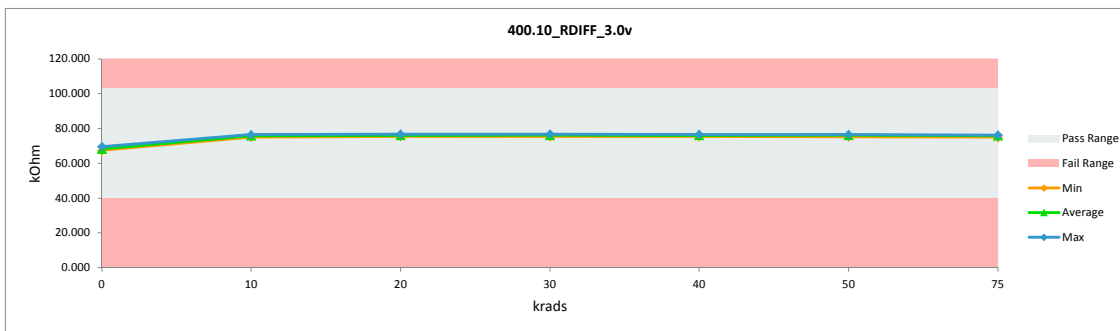
400.10_RDIFF_3.0v		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	kOhm	kOhm
Max Limit	103	103
Min Limit	40.1	40.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	69.505	69.505	0.000
10	27_Unbias	76.437	76.435	0.002
10	28_Unbias	76.285	76.287	-0.002
10	29_Unbias	75.367	75.326	0.041
10	30_Unbias	75.081	75.069	0.012
10	31_Unbias	76.284	76.270	0.014
0	2_corr	69.505	69.505	0.000
20	32_Unbias	76.164	76.321	-0.157
20	33_Unbias	75.249	75.378	-0.129
20	34_Unbias	76.584	76.725	-0.141
20	35_Unbias	75.567	75.721	-0.154
20	36_Unbias	75.732	75.908	-0.176
0	2	69.505	67.639	1.866
30	37_Unbias	75.972	76.043	-0.071
30	38_Unbias	76.554	76.664	-0.110
30	39_Unbias	75.359	75.450	-0.091
30	40_Unbias	75.574	75.629	-0.055
30	41_Unbias	76.618	76.682	-0.064
0	2_corr	69.505	67.642	1.863
40	42_Unbias	75.643	75.618	0.025
40	43_Unbias	76.325	76.307	0.018
40	44_Unbias	75.797	75.770	0.027
40	45_Unbias	76.629	76.594	0.035
40	46_Unbias	75.439	75.444	-0.005
0	2	69.505	67.448	2.057
50	47_Unbias	76.223	76.290	-0.067
50	48_Unbias	75.159	75.264	-0.105
50	49_Unbias	75.585	75.707	-0.122
50	50_Unbias	76.459	76.579	-0.120
50	51_Unbias	76.383	76.516	-0.133
0	2	69.505	67.448	2.057
75	47_Unbias	76.223	76.038	0.185
75	48_Unbias	75.159	74.973	0.186
75	49_Unbias	75.585	75.373	0.212
75	50_Unbias	76.459	76.239	0.220
75	51_Unbias	76.383	76.160	0.223
	Max	76.629	76.725	2.057
	Average	74.870	74.666	0.204
	Min	69.505	67.448	-0.176
	Std Dev	2.477	2.996	0.640



400.10_RDIFF_3.0v		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	103	kOhm
Min Limit	40.1	kOhm

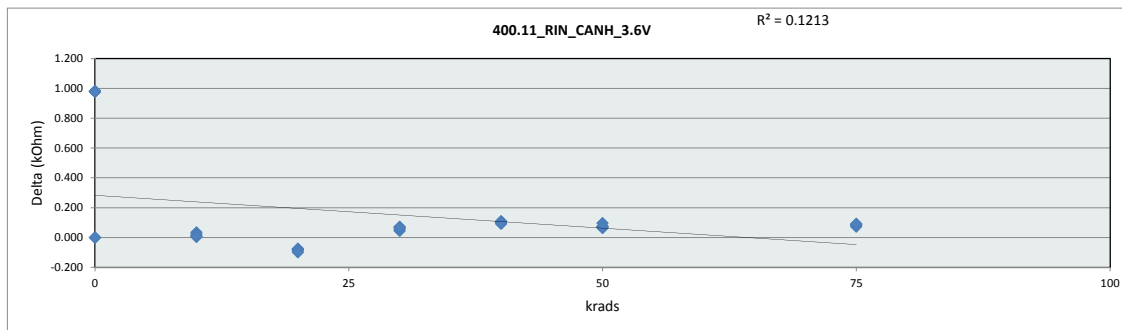
	0	10	20	30	40	50	75
LL	40.100	40.100	40.100	40.100	40.100	40.100	40.100
Min	67.448	75.069	75.378	75.450	75.444	75.264	74.973
Average	68.198	75.877	76.011	76.094	75.947	76.071	75.757
Max	69.505	76.435	76.725	76.682	76.594	76.579	76.239
UL	103.000	103.000	103.000	103.000	103.000	103.000	103.000



TID 75k LDR Report
HVD233 Boac Teos

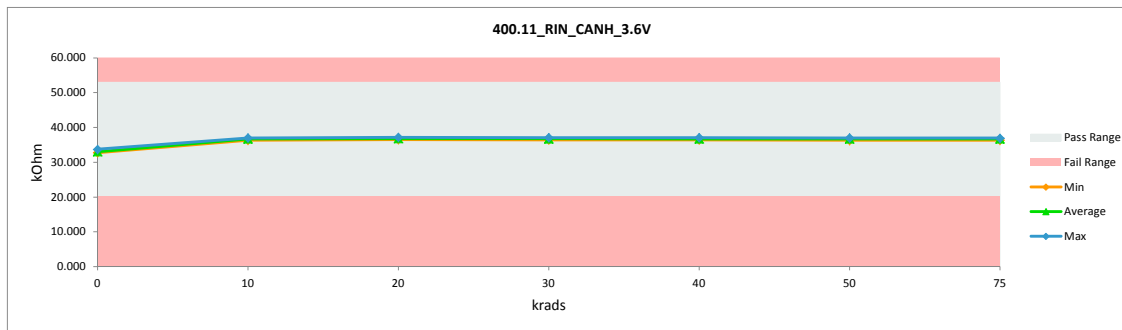
400.11_RIN_CANH_3.6V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	kOhm	kOhm
Max Limit	53	53
Min Limit	20.1	20.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	33.709	33.709	0.000
10	27_Unbias	37.046	37.011	0.035
10	28_Unbias	36.929	36.924	0.005
10	29_Unbias	36.469	36.445	0.024
10	30_Unbias	36.336	36.328	0.008
10	31_Unbias	36.933	36.922	0.011
0	2_corr	33.709	33.709	0.000
20	32_Unbias	36.871	36.955	-0.084
20	33_Unbias	36.474	36.548	-0.074
20	34_Unbias	37.101	37.178	-0.077
20	35_Unbias	36.563	36.649	-0.086
20	36_Unbias	36.677	36.775	-0.098
0	2	33.709	32.727	0.982
30	37_Unbias	36.795	36.731	0.064
30	38_Unbias	37.078	37.032	0.046
30	39_Unbias	36.481	36.425	0.056
30	40_Unbias	36.595	36.525	0.070
30	41_Unbias	37.128	37.058	0.070
0	2_corr	33.709	32.731	0.978
40	42_Unbias	36.615	36.508	0.107
40	43_Unbias	36.971	36.863	0.108
40	44_Unbias	36.684	36.580	0.104
40	45_Unbias	37.167	37.059	0.108
40	46_Unbias	36.516	36.423	0.093
0	2	33.709	32.730	0.979
50	47_Unbias	36.918	36.821	0.097
50	48_Unbias	36.382	36.306	0.076
50	49_Unbias	36.618	36.552	0.066
50	50_Unbias	37.017	36.946	0.071
50	51_Unbias	37.021	36.957	0.064
0	2	33.709	32.730	0.979
75	47_Unbias	36.918	36.833	0.085
75	48_Unbias	36.382	36.309	0.073
75	49_Unbias	36.618	36.536	0.082
75	50_Unbias	37.017	36.931	0.086
75	51_Unbias	37.021	36.928	0.093
	Max	37.167	37.178	0.982
	Average	36.267	36.122	0.144
	Min	33.709	32.727	-0.098
	Std Dev	1.184	1.423	0.305



400.11_RIN_CANH_3.6V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	53	kOhm
Min Limit	20.1	kOhm

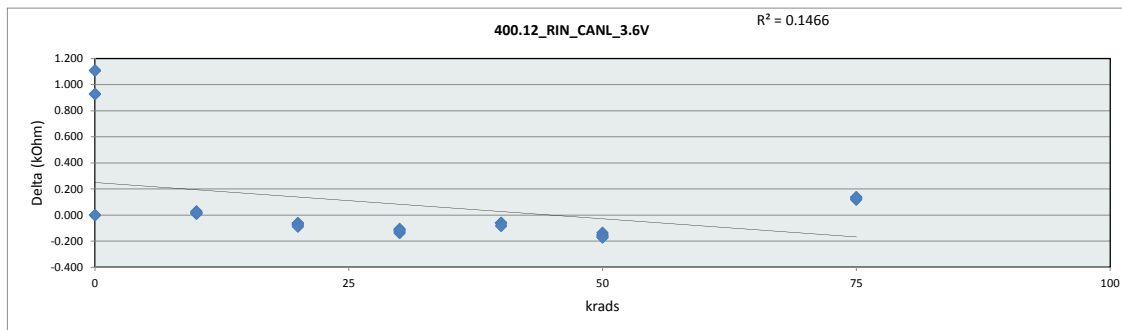
krads	0	10	20	30	40	50	75
LL	20.100	20.100	20.100	20.100	20.100	20.100	20.100
Min	32.727	36.328	36.548	36.425	36.423	36.306	36.309
Average	33.056	36.726	36.821	36.754	36.687	36.716	36.707
Max	33.709	37.011	37.178	37.058	37.059	36.957	36.931
UL	53.000	53.000	53.000	53.000	53.000	53.000	53.000



TID 75k LDR Report HVD233 Boac Teos

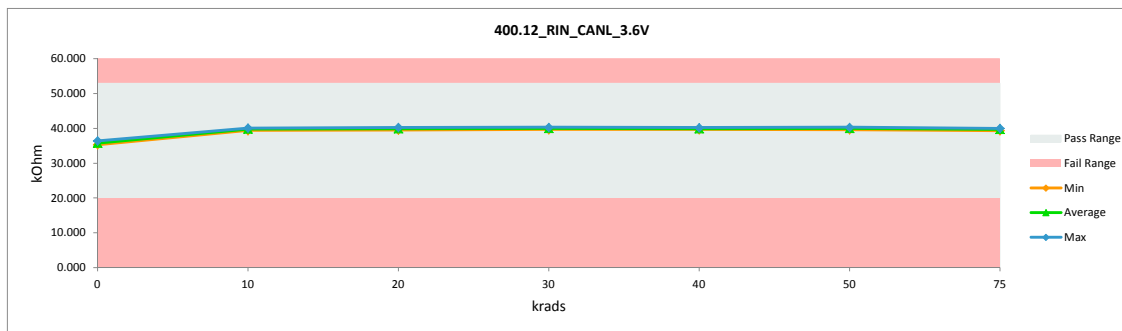
400.12_RIN_CANL_3.6V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	kOhm	kOhm
Max Limit	53	53
Min Limit	20.1	20.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	36.450	36.450	0.000
10	27_Unbias	40.139	40.125	0.014
10	28_Unbias	40.071	40.060	0.011
10	29_Unbias	39.597	39.568	0.029
10	30_Unbias	39.447	39.428	0.019
10	31_Unbias	40.066	40.047	0.019
0	2_corr	36.450	36.450	0.000
20	32_Unbias	40.002	40.078	-0.076
20	33_Unbias	39.477	39.538	-0.061
20	34_Unbias	40.205	40.266	-0.061
20	35_Unbias	39.706	39.777	-0.071
20	36_Unbias	39.756	39.844	-0.088
0	2	36.450	35.522	0.928
30	37_Unbias	39.888	40.002	-0.114
30	38_Unbias	40.189	40.325	-0.136
30	39_Unbias	39.582	39.709	-0.127
30	40_Unbias	39.678	39.783	-0.105
30	41_Unbias	40.207	40.322	-0.115
0	2_corr	36.450	35.520	0.930
40	42_Unbias	39.730	39.791	-0.061
40	43_Unbias	40.076	40.137	-0.061
40	44_Unbias	39.813	39.875	-0.062
40	45_Unbias	40.176	40.235	-0.059
40	46_Unbias	39.623	39.705	-0.082
0	2	36.450	35.341	1.109
50	47_Unbias	40.019	40.153	-0.134
50	48_Unbias	39.478	39.626	-0.148
50	49_Unbias	39.670	39.828	-0.158
50	50_Unbias	40.154	40.320	-0.166
50	51_Unbias	40.077	40.247	-0.170
0	2	36.450	35.341	1.109
75	47_Unbias	40.019	39.901	0.118
75	48_Unbias	39.478	39.356	0.122
75	49_Unbias	39.670	39.533	0.137
75	50_Unbias	40.154	40.021	0.133
75	51_Unbias	40.077	39.939	0.138
	Max	40.207	40.325	1.109
	Average	39.303	39.227	0.077
	Min	36.450	35.341	-0.170
	Std Dev	1.316	1.601	0.351



400.12_RIN_CANL_3.6V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	53	kOhm
Min Limit	20.1	kOhm

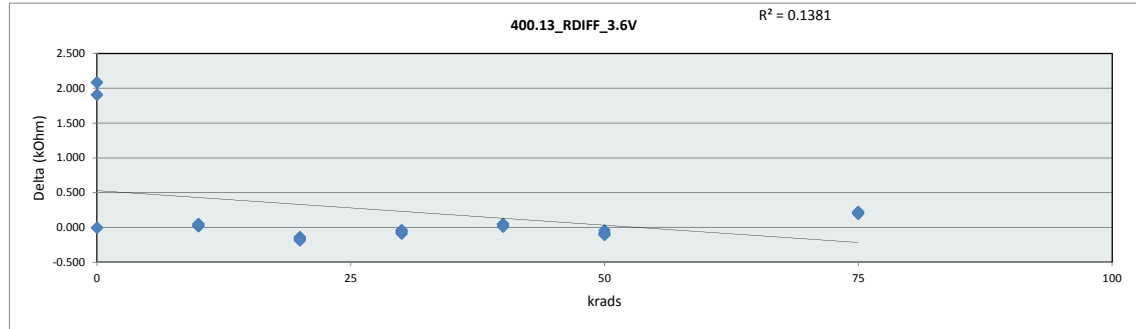
krads	0	10	20	30	40	50	75
LL	20.100	20.100	20.100	20.100	20.100	20.100	20.100
Min	35.341	39.428	39.538	39.709	39.705	39.626	39.356
Average	35.771	39.846	39.901	40.028	39.949	40.035	39.750
Max	36.450	40.125	40.266	40.325	40.235	40.320	40.021
UL	53.000	53.000	53.000	53.000	53.000	53.000	53.000



TID 75k LDR Report
HVD233 Boac Teos

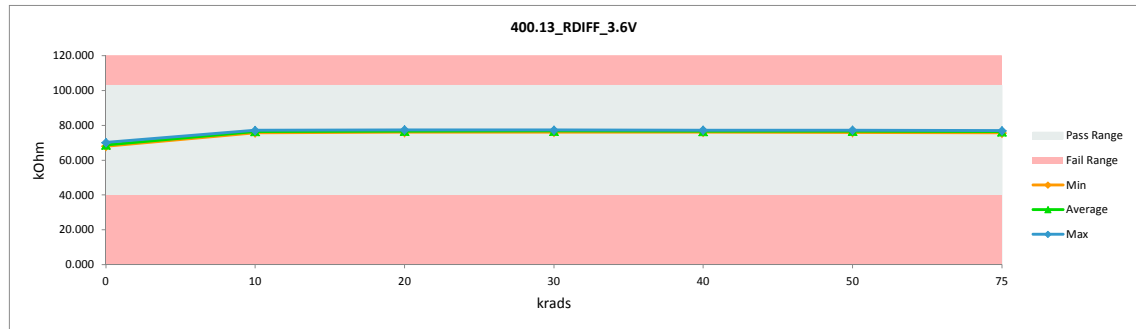
400.13_RDIFF_3.6V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	kOhm	kOhm
Max Limit	103	103
Min Limit	40.1	40.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	70.158	70.158	0.000
10	27_Unbias	77.184	77.136	0.048
10	28_Unbias	77.000	76.985	0.015
10	29_Unbias	76.065	76.013	0.052
10	30_Unbias	75.783	75.756	0.027
10	31_Unbias	76.999	76.970	0.029
0	2_corr	70.158	70.158	0.000
20	32_Unbias	76.872	77.034	-0.162
20	33_Unbias	75.952	76.085	-0.133
20	34_Unbias	77.306	77.444	-0.138
20	35_Unbias	76.268	76.426	-0.158
20	36_Unbias	76.433	76.619	-0.186
0	2	70.158	68.249	1.909
30	37_Unbias	76.683	76.733	-0.050
30	38_Unbias	77.268	77.357	-0.089
30	39_Unbias	76.063	76.134	-0.071
30	40_Unbias	76.273	76.307	-0.034
30	41_Unbias	77.335	77.379	-0.044
0	2_corr	70.158	68.251	1.907
40	42_Unbias	76.345	76.299	0.046
40	43_Unbias	77.047	77.000	0.047
40	44_Unbias	76.497	76.455	0.042
40	45_Unbias	77.344	77.293	0.051
40	46_Unbias	76.139	76.128	0.011
0	2	70.158	68.071	2.087
50	47_Unbias	76.936	76.974	-0.038
50	48_Unbias	75.860	75.933	-0.073
50	49_Unbias	76.288	76.380	-0.092
50	50_Unbias	77.171	77.265	-0.094
50	51_Unbias	77.097	77.205	-0.108
0	2	70.158	68.071	2.087
75	47_Unbias	76.936	76.734	0.202
75	48_Unbias	75.860	75.666	0.194
75	49_Unbias	76.288	76.069	0.219
75	50_Unbias	77.171	76.952	0.219
75	51_Unbias	77.097	76.867	0.230
	Max	77.344	77.444	2.087
	Average	75.570	75.349	0.221
	Min	70.158	68.071	-0.186
	Std Dev	2.499	3.022	0.647



400.13_RDIFF_3.6V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	103	kOhm
Min Limit	40.1	kOhm

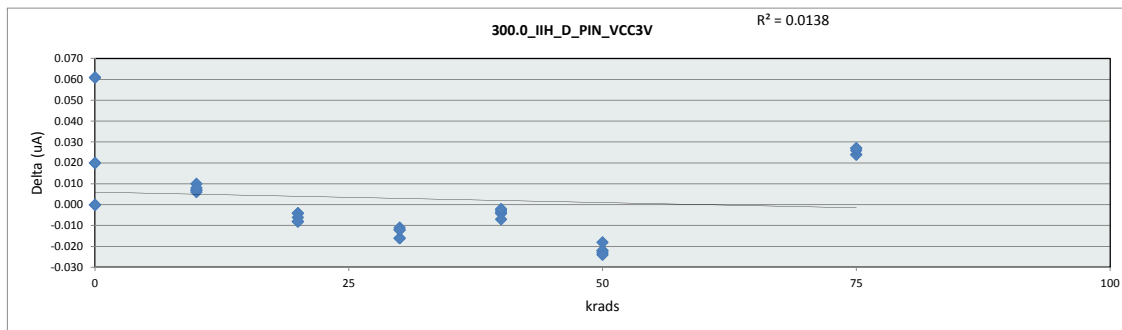
	0	10	20	30	40	50	75
LL	40.100	40.100	40.100	40.100	40.100	40.100	40.100
Min	68.071	75.756	76.085	76.134	76.128	75.933	75.666
Average	68.826	76.572	76.722	76.782	76.635	76.751	76.458
Max	70.158	77.136	77.444	77.379	77.293	77.265	76.952
UL	103.000	103.000	103.000	103.000	103.000	103.000	103.000



TID 75k LDR Report
HVD233 Boac Teos

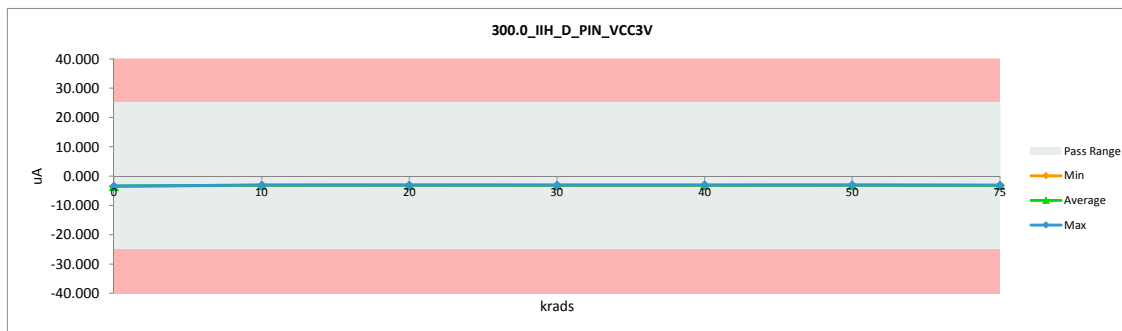
300.0_IIH_D_PIN_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-3.388	-3.388	0.000
10	27_Unbias	-3.089	-3.096	0.007
10	28_Unbias	-3.094	-3.100	0.006
10	29_Unbias	-3.108	-3.118	0.010
10	30_Unbias	-3.120	-3.127	0.007
10	31_Unbias	-3.083	-3.091	0.008
0	2_corr	-3.388	-3.388	0.000
20	32_Unbias	-3.089	-3.081	-0.008
20	33_Unbias	-3.099	-3.095	-0.004
20	34_Unbias	-3.076	-3.072	-0.004
20	35_Unbias	-3.097	-3.091	-0.006
20	36_Unbias	-3.074	-3.066	-0.008
0	2	-3.388	-3.408	0.020
30	37_Unbias	-3.105	-3.093	-0.012
30	38_Unbias	-3.104	-3.088	-0.016
30	39_Unbias	-3.140	-3.124	-0.016
30	40_Unbias	-3.105	-3.094	-0.011
30	41_Unbias	-3.088	-3.076	-0.012
0	2_corr	-3.388	-3.408	0.020
40	42_Unbias	-3.086	-3.082	-0.004
40	43_Unbias	-3.087	-3.083	-0.004
40	44_Unbias	-3.081	-3.078	-0.003
40	45_Unbias	-3.056	-3.054	-0.002
40	46_Unbias	-3.133	-3.126	-0.007
0	2	-3.388	-3.449	0.061
50	47_Unbias	-3.094	-3.076	-0.018
50	48_Unbias	-3.119	-3.097	-0.022
50	49_Unbias	-3.114	-3.091	-0.023
50	50_Unbias	-3.072	-3.050	-0.022
50	51_Unbias	-3.094	-3.070	-0.024
0	2	-3.388	-3.449	0.061
75	47_Unbias	-3.094	-3.118	0.024
75	48_Unbias	-3.119	-3.143	0.024
75	49_Unbias	-3.114	-3.140	0.026
75	50_Unbias	-3.072	-3.099	0.027
75	51_Unbias	-3.094	-3.121	0.027
	Max	-3.056	-3.050	0.061
	Average	-3.145	-3.148	0.003
	Min	-3.388	-3.449	-0.024
	Std Dev	0.111	0.123	0.021



300.0_IIH_D_PIN_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

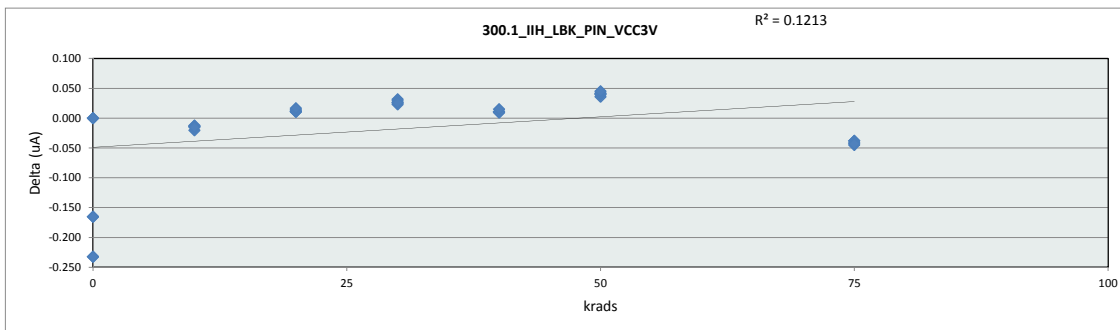
krads	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-3.449	-3.127	-3.095	-3.124	-3.126	-3.097	-3.143
Average	-3.415	-3.106	-3.081	-3.095	-3.085	-3.077	-3.124
Max	-3.388	-3.091	-3.066	-3.076	-3.054	-3.050	-3.099
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report
HVD233 Boac Teos

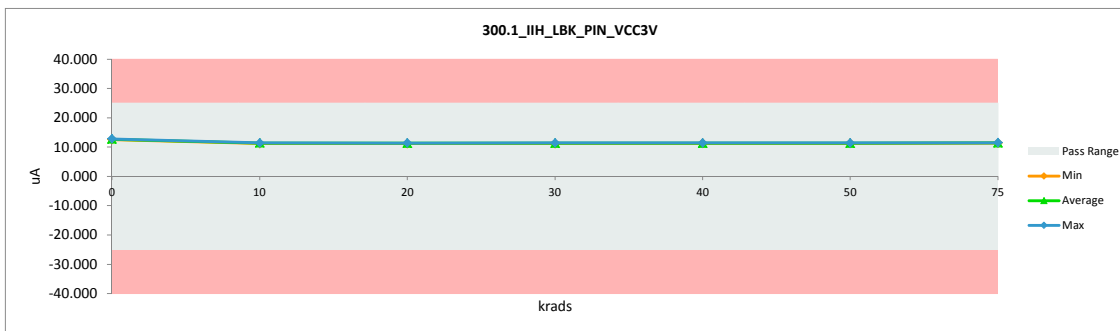
300.1_IIH_LBK_PIN_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	12.584	12.584	0.000
10	27_Unbias	11.237	11.250	-0.013
10	28_Unbias	11.403	11.415	-0.012
10	29_Unbias	11.407	11.427	-0.020
10	30_Unbias	11.433	11.447	-0.014
10	31_Unbias	11.297	11.312	-0.015
0	2_corr	12.584	12.584	0.000
20	32_Unbias	11.400	11.386	0.014
20	33_Unbias	11.240	11.229	0.011
20	34_Unbias	11.256	11.245	0.011
20	35_Unbias	11.346	11.334	0.012
20	36_Unbias	11.387	11.370	0.017
0	2	12.584	12.749	-0.165
30	37_Unbias	11.393	11.367	0.026
30	38_Unbias	11.259	11.227	0.032
30	39_Unbias	11.459	11.430	0.029
30	40_Unbias	11.407	11.384	0.023
30	41_Unbias	11.356	11.330	0.026
0	2_corr	12.584	12.749	-0.165
40	42_Unbias	11.317	11.306	0.011
40	43_Unbias	11.348	11.337	0.011
40	44_Unbias	11.307	11.297	0.010
40	45_Unbias	11.310	11.300	0.010
40	46_Unbias	11.447	11.432	0.015
0	2	12.584	12.816	-0.232
50	47_Unbias	11.342	11.306	0.036
50	48_Unbias	11.361	11.321	0.040
50	49_Unbias	11.459	11.417	0.042
50	50_Unbias	11.336	11.295	0.041
50	51_Unbias	11.378	11.333	0.045
0	2	12.584	12.816	-0.232
75	47_Unbias	11.342	11.380	-0.038
75	48_Unbias	11.361	11.399	-0.038
75	49_Unbias	11.459	11.504	-0.045
75	50_Unbias	11.336	11.377	-0.041
75	51_Unbias	11.378	11.421	-0.043
	Max	12.584	12.816	0.045
	Average	11.563	11.580	-0.017
	Min	11.237	11.227	-0.232
	Std Dev	0.467	0.521	0.071



300.1_IIH_LBK_PIN_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

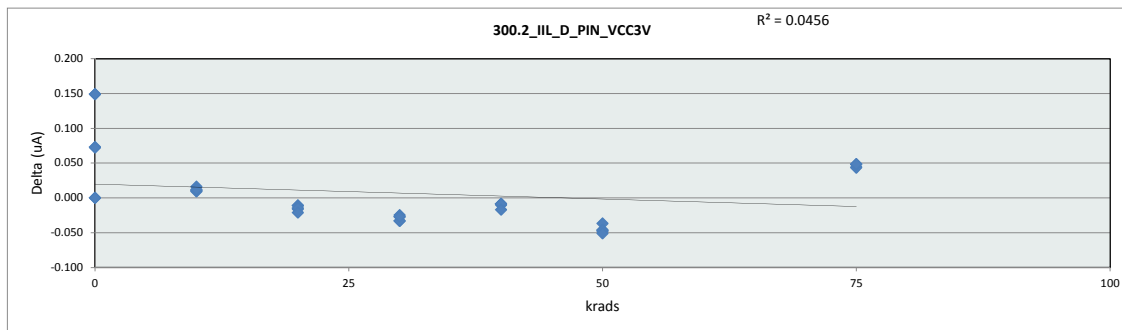
krads	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.584	11.250	11.229	11.227	11.297	11.295	11.377
Average	12.716	11.370	11.313	11.348	11.334	11.334	11.416
Max	12.816	11.447	11.386	11.430	11.432	11.417	11.504
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report
HVD233 Boac Teos

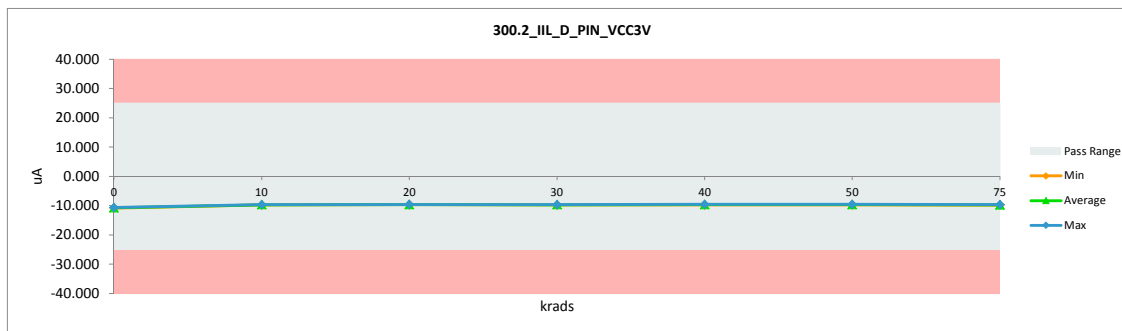
300.2_IIL_D_PIN_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-10.641	-10.641	0.000
10	27_Unbias	-9.650	-9.660	0.010
10	28_Unbias	-9.666	-9.675	0.009
10	29_Unbias	-9.713	-9.729	0.016
10	30_Unbias	-9.750	-9.761	0.011
10	31_Unbias	-9.633	-9.645	0.012
0	2_corr	-10.641	-10.641	0.000
20	32_Unbias	-9.647	-9.631	-0.016
20	33_Unbias	-9.680	-9.669	-0.011
20	34_Unbias	-9.608	-9.597	-0.011
20	35_Unbias	-9.680	-9.665	-0.015
20	36_Unbias	-9.605	-9.584	-0.021
0	2	-10.641	-10.714	0.073
30	37_Unbias	-9.708	-9.681	-0.027
30	38_Unbias	-9.693	-9.660	-0.033
30	39_Unbias	-9.812	-9.779	-0.033
30	40_Unbias	-9.710	-9.685	-0.025
30	41_Unbias	-9.650	-9.623	-0.027
0	2_corr	-10.641	-10.713	0.072
40	42_Unbias	-9.643	-9.634	-0.009
40	43_Unbias	-9.645	-9.635	-0.010
40	44_Unbias	-9.631	-9.622	-0.009
40	45_Unbias	-9.541	-9.532	-0.009
40	46_Unbias	-9.793	-9.776	-0.017
0	2	-10.641	-10.790	0.149
50	47_Unbias	-9.671	-9.634	-0.037
50	48_Unbias	-9.749	-9.703	-0.046
50	49_Unbias	-9.734	-9.686	-0.048
50	50_Unbias	-9.598	-9.551	-0.047
50	51_Unbias	-9.664	-9.613	-0.051
0	2	-10.641	-10.790	0.149
75	47_Unbias	-9.671	-9.715	0.044
75	48_Unbias	-9.749	-9.792	0.043
75	49_Unbias	-9.734	-9.782	0.048
75	50_Unbias	-9.598	-9.646	0.048
75	51_Unbias	-9.664	-9.712	0.048
	Max	-9.541	-9.532	0.149
	Average	-9.837	-9.843	0.006
	Min	-10.641	-10.790	-0.051
	Std Dev	0.369	0.401	0.048



300.2_IIL_D_PIN_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

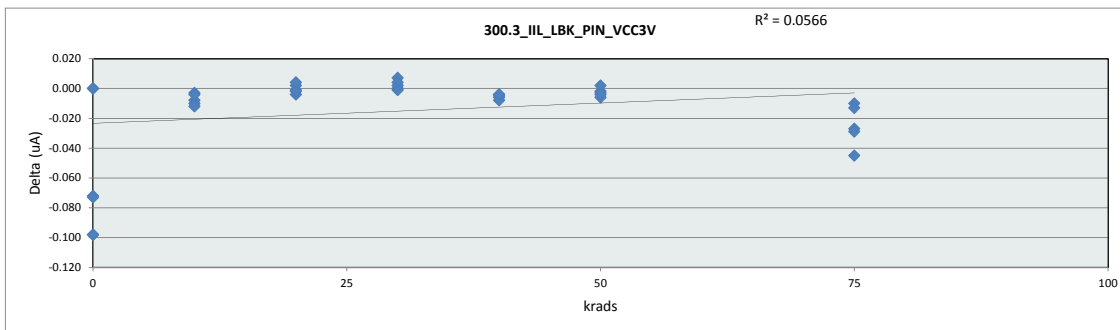
krads	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-10.790	-9.761	-9.669	-9.779	-9.776	-9.703	-9.792
Average	-10.715	-9.694	-9.629	-9.686	-9.640	-9.637	-9.729
Max	-10.641	-9.645	-9.584	-9.623	-9.532	-9.551	-9.646
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report HVD233 Boac Teos

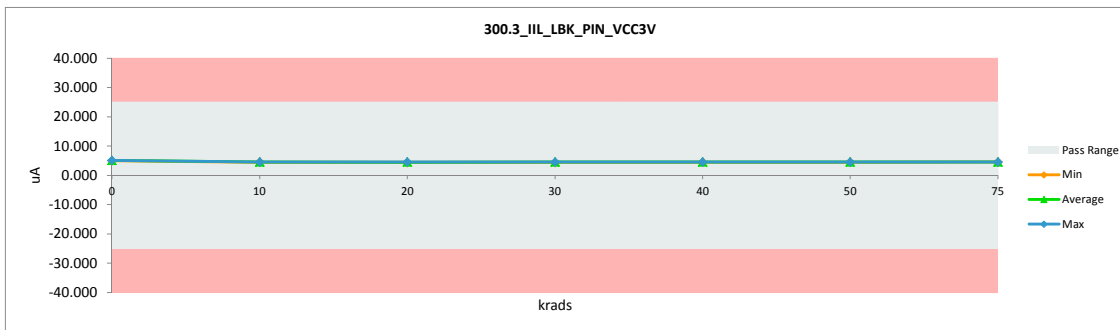
300.3_IIL_LBK_PIN_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	5.017	5.017	0.000
10	27_Unbias	4.475	4.483	-0.008
10	28_Unbias	4.541	4.544	-0.003
10	29_Unbias	4.542	4.552	-0.010
10	30_Unbias	4.554	4.558	-0.004
10	31_Unbias	4.497	4.509	-0.012
0	2_corr	5.017	5.017	0.000
20	32_Unbias	4.537	4.541	-0.004
20	33_Unbias	4.473	4.474	-0.001
20	34_Unbias	4.484	4.482	0.002
20	35_Unbias	4.517	4.519	-0.002
20	36_Unbias	4.535	4.531	0.004
0	2	5.017	5.089	-0.072
30	37_Unbias	4.537	4.537	0.000
30	38_Unbias	4.484	4.477	0.007
30	39_Unbias	4.561	4.562	-0.001
30	40_Unbias	4.543	4.541	0.002
30	41_Unbias	4.522	4.518	0.004
0	2_corr	5.017	5.090	-0.073
40	42_Unbias	4.506	4.511	-0.005
40	43_Unbias	4.519	4.523	-0.004
40	44_Unbias	4.502	4.508	-0.006
40	45_Unbias	4.502	4.510	-0.008
40	46_Unbias	4.555	4.559	-0.004
0	2	5.017	5.115	-0.098
50	47_Unbias	4.514	4.520	-0.006
50	48_Unbias	4.523	4.525	-0.002
50	49_Unbias	4.562	4.565	-0.003
50	50_Unbias	4.515	4.513	0.002
50	51_Unbias	4.529	4.533	-0.004
0	2	5.017	5.115	-0.098
75	47_Unbias	4.514	4.559	-0.045
75	48_Unbias	4.523	4.533	-0.010
75	49_Unbias	4.562	4.589	-0.027
75	50_Unbias	4.515	4.544	-0.029
75	51_Unbias	4.529	4.542	-0.013
	Max	5.017	5.115	0.007
	Average	4.605	4.620	-0.015
	Min	4.473	4.474	-0.098
	Std Dev	0.188	0.208	0.027



300.3_IIL_LBK_PIN_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

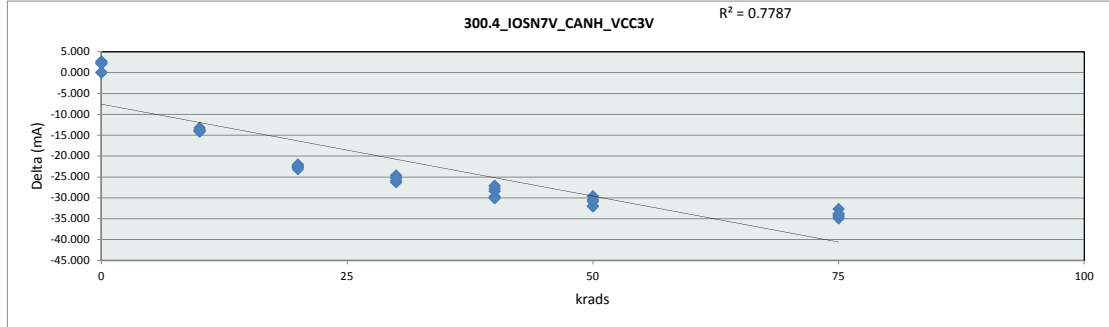
	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	5.017	4.483	4.474	4.477	4.508	4.513	4.533
Average	5.074	4.529	4.509	4.527	4.522	4.531	4.553
Max	5.115	4.558	4.541	4.562	4.559	4.565	4.589
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report
HVD233 Boac Teos

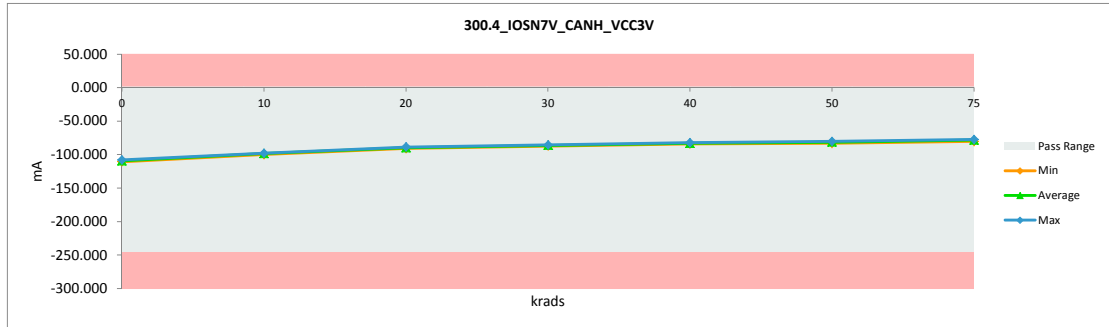
300.4_IOSN7V_CANH_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.9	0.9
Min Limit	-245	-245

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-107.912	-107.912	0.000
10	27_Unbias	-111.934	-97.982	-13.952
10	28_Unbias	-112.958	-99.726	-13.232
10	29_Unbias	-112.120	-98.324	-13.796
10	30_Unbias	-112.579	-98.438	-14.141
10	31_Unbias	-111.881	-97.976	-13.905
0	2_corr	-107.912	-107.912	0.000
20	32_Unbias	-112.583	-89.943	-22.640
20	33_Unbias	-112.705	-90.137	-22.568
20	34_Unbias	-111.502	-89.071	-22.431
20	35_Unbias	-111.732	-88.611	-23.121
20	36_Unbias	-112.906	-90.807	-22.099
0	2	-107.912	-110.549	2.637
30	37_Unbias	-111.550	-85.633	-25.917
30	38_Unbias	-111.876	-87.225	-24.651
30	39_Unbias	-110.550	-85.344	-25.206
30	40_Unbias	-112.050	-85.785	-26.265
30	41_Unbias	-112.357	-87.046	-25.311
0	2_corr	-107.912	-110.458	2.546
40	42_Unbias	-112.683	-82.951	-29.732
40	43_Unbias	-112.265	-82.191	-30.074
40	44_Unbias	-112.467	-84.032	-28.435
40	45_Unbias	-111.007	-83.177	-27.830
40	46_Unbias	-111.181	-84.050	-27.131
0	2	-107.912	-110.086	2.174
50	47_Unbias	-112.811	-83.190	-29.621
50	48_Unbias	-112.114	-80.093	-32.021
50	49_Unbias	-112.689	-80.678	-32.011
50	50_Unbias	-112.068	-81.200	-30.868
50	51_Unbias	-112.361	-81.853	-30.508
0	2	-107.912	-110.086	2.174
75	47_Unbias	-112.811	-80.070	-32.741
75	48_Unbias	-112.114	-77.528	-34.586
75	49_Unbias	-112.689	-77.746	-34.943
75	50_Unbias	-112.068	-77.875	-34.193
75	51_Unbias	-112.361	-78.466	-33.895
0	2	-107.912	-77.528	2.637
Average		-111.457	-90.115	-21.341
Min		-112.958	-110.549	-34.943
Std Dev		1.693	10.714	12.070



300.4_IOSN7V_CANH_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.9	mA
Min Limit	-245	mA

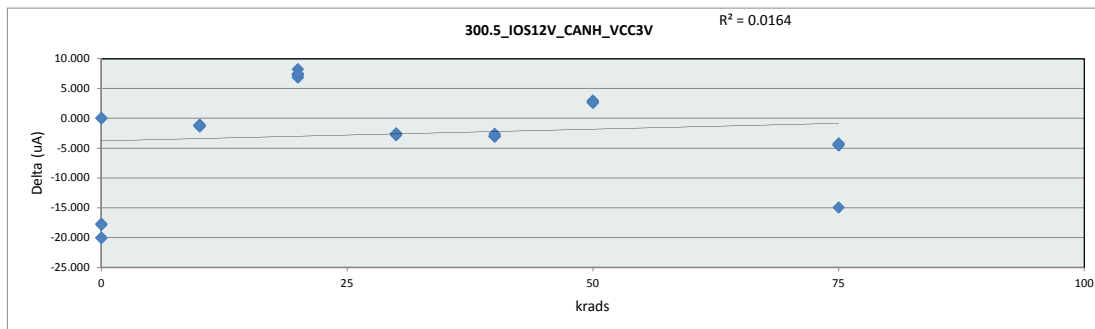
krads	0	10	20	30	40	50	75
LL	-245.000	-245.000	-245.000	-245.000	-245.000	-245.000	-245.000
Min	-110.549	-99.726	-90.807	-87.225	-84.050	-83.190	-80.070
Average	-109.501	-98.489	-89.714	-86.207	-83.280	-81.403	-78.337
Max	-107.912	-97.976	-88.611	-85.344	-82.191	-80.093	-77.528
UL	0.900	0.900	0.900	0.900	0.900	0.900	0.900



TID 75k LDR Report HVD233 Boac Teos

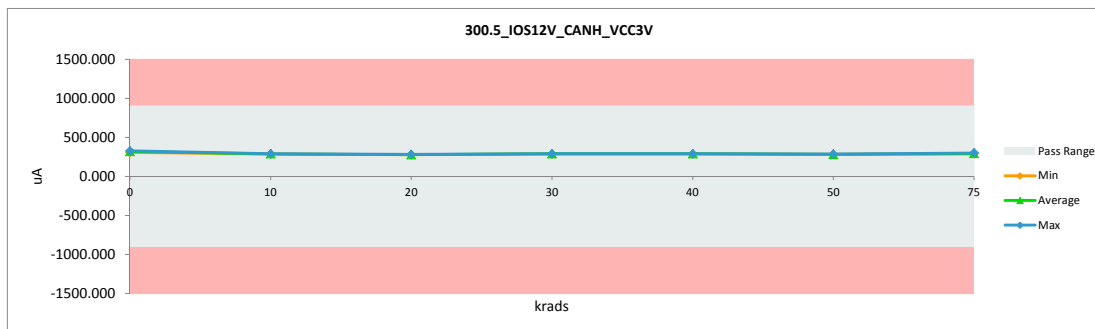
300.5_IOS12V_CANH_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	304.777	304.777	0.000
10	27_Unbias	283.606	284.781	-1.175
10	28_Unbias	284.184	285.552	-1.368
10	29_Unbias	287.629	288.872	-1.243
10	30_Unbias	288.617	289.708	-1.091
10	31_Unbias	284.045	285.212	-1.167
0	2_corr	304.777	304.777	0.000
20	32_Unbias	284.393	276.153	8.240
20	33_Unbias	287.306	280.460	6.846
20	34_Unbias	282.779	275.637	7.142
20	35_Unbias	286.753	279.407	7.346
20	36_Unbias	285.733	278.243	7.490
0	2	304.777	322.459	-17.682
30	37_Unbias	285.044	287.852	-2.808
30	38_Unbias	282.804	285.409	-2.605
30	39_Unbias	287.765	290.315	-2.550
30	40_Unbias	286.499	289.089	-2.590
30	41_Unbias	282.640	285.307	-2.667
0	2_corr	304.777	322.639	-17.862
40	42_Unbias	286.490	289.512	-3.022
40	43_Unbias	283.746	286.778	-3.032
40	44_Unbias	285.913	288.958	-3.045
40	45_Unbias	282.091	285.020	-2.929
40	46_Unbias	287.367	289.983	-2.616
0	2	304.777	324.845	-20.068
50	47_Unbias	284.200	281.335	2.865
50	48_Unbias	288.014	285.401	2.613
50	49_Unbias	286.384	283.667	2.717
50	50_Unbias	283.340	280.372	2.968
50	51_Unbias	283.410	280.716	2.694
0	2	304.777	324.845	-20.068
75	47_Unbias	284.200	299.127	-14.927
75	48_Unbias	288.014	292.235	-4.221
75	49_Unbias	286.384	290.825	-4.441
75	50_Unbias	283.340	287.871	-4.531
75	51_Unbias	283.410	287.838	-4.428
	Max	304.777	324.845	8.240
	Average	288.466	290.999	-2.534
	Min	282.091	275.637	-20.068
	Std Dev	7.606	13.371	7.380



300.5_IOS12V_CANH_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	900	uA
Min Limit	-900	uA

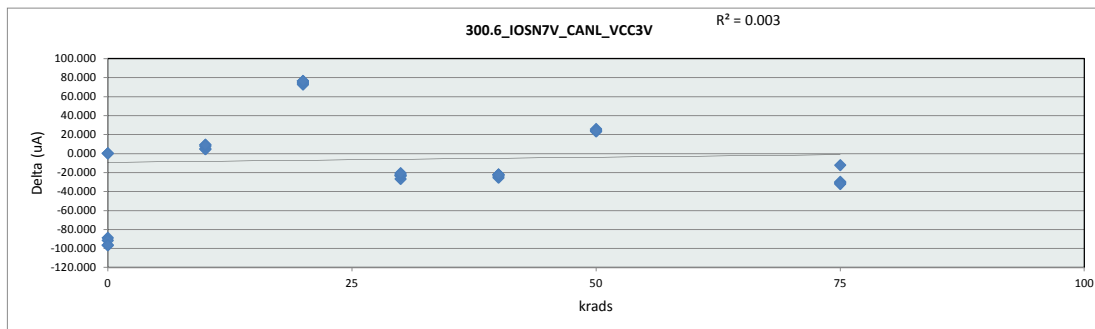
	0	10	20	30	40	50	75
LL	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000
Min	304.777	284.781	275.637	285.307	285.020	280.372	287.838
Average	317.390	286.825	277.980	287.594	288.050	282.298	291.579
Max	324.845	289.708	280.460	290.315	289.983	285.401	299.127
UL	900.000	900.000	900.000	900.000	900.000	900.000	900.000



TID 75k LDR Report
HVD233 Boac Teos

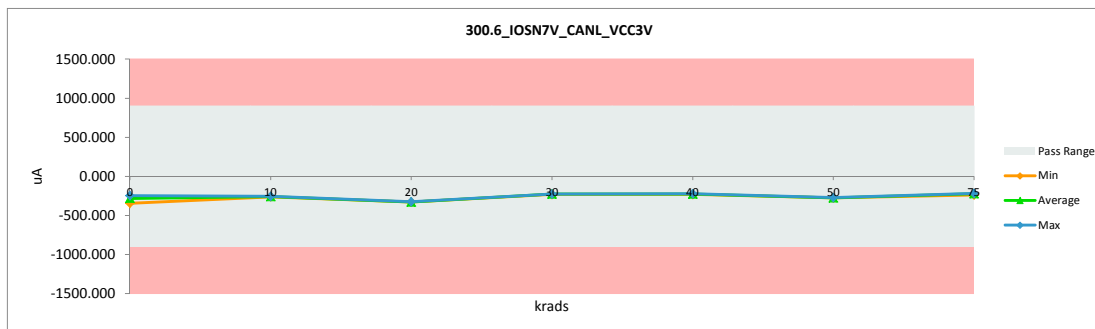
300.6_IOSN7V_CANL_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-344.631	-344.631	0.000
10	27_Unbias	-250.153	-254.963	4.810
10	28_Unbias	-249.496	-253.978	4.482
10	29_Unbias	-253.518	-260.956	7.438
10	30_Unbias	-252.656	-262.023	9.367
10	31_Unbias	-249.660	-258.698	9.038
0	2_corr	-344.631	-344.631	0.000
20	32_Unbias	-252.287	-325.030	72.743
20	33_Unbias	-254.421	-328.393	73.972
20	34_Unbias	-250.604	-325.481	74.877
20	35_Unbias	-253.928	-330.115	76.187
20	36_Unbias	-254.174	-330.525	76.351
0	2	-344.631	-255.756	-88.875
30	37_Unbias	-252.984	-226.268	-26.716
30	38_Unbias	-249.127	-225.571	-23.556
30	39_Unbias	-253.272	-229.795	-23.477
30	40_Unbias	-252.164	-229.713	-22.451
30	41_Unbias	-247.444	-226.596	-20.848
0	2_corr	-344.631	-253.131	-91.500
40	42_Unbias	-252.000	-226.391	-25.609
40	43_Unbias	-248.183	-224.341	-23.842
40	44_Unbias	-249.907	-227.909	-21.998
40	45_Unbias	-250.522	-228.196	-22.326
40	46_Unbias	-252.533	-230.164	-22.369
0	2	-344.631	-248.111	-96.520
50	47_Unbias	-250.933	-276.631	25.698
50	48_Unbias	-253.969	-277.370	23.401
50	49_Unbias	-253.805	-277.206	23.401
50	50_Unbias	-250.030	-274.827	24.797
50	51_Unbias	-249.701	-273.720	24.019
0	2	-344.631	-248.111	-96.520
75	47_Unbias	-250.933	-238.757	-12.176
75	48_Unbias	-253.969	-224.192	-29.777
75	49_Unbias	-253.805	-222.798	-31.007
75	50_Unbias	-250.030	-218.818	-31.212
75	51_Unbias	-249.701	-217.464	-32.237
	Max	-247.444	-217.464	76.351
	Average	-267.047	-261.146	-5.901
	Min	-344.631	-344.631	-96.520
	Std Dev	35.236	40.101	46.088



300.6_IOSN7V_CANL_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	900	uA
Min Limit	-900	uA

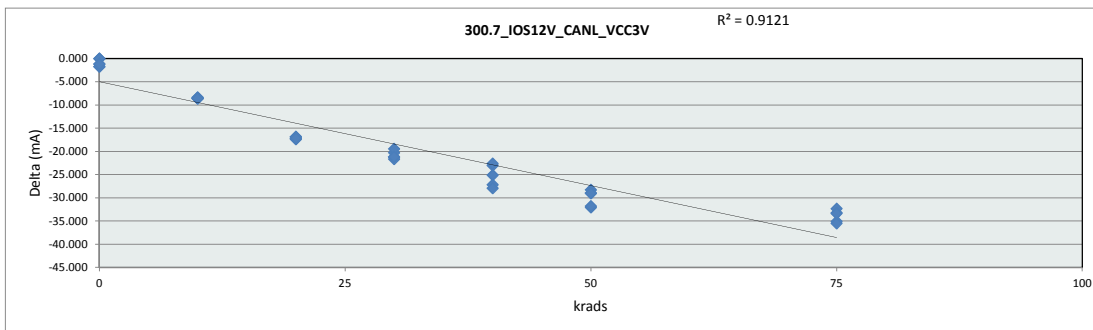
	0	10	20	30	40	50	75
LL	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000
Min	-344.631	-262.023	-330.525	-229.795	-230.164	-277.370	-238.757
Average	-282.395	-258.124	-327.909	-227.589	-227.400	-275.951	-224.406
Max	-248.111	-253.978	-325.030	-225.571	-224.341	-273.720	-217.464
UL	900.000	900.000	900.000	900.000	900.000	900.000	900.000



TID 75k LDR Report
HVD233 Boac Teos

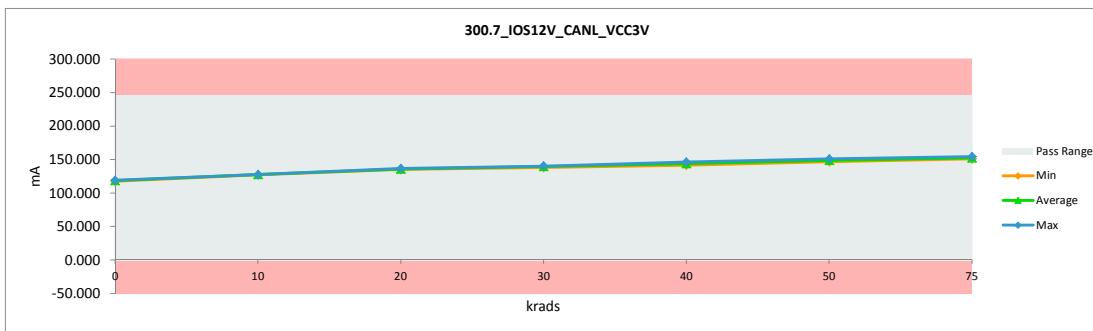
300.7_IOS12V_CANL_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	245	245
Min Limit	-0.9	-0.9

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	117.389	117.389	0.000
10	27_Unbias	118.555	126.940	-8.385
10	28_Unbias	118.998	127.519	-8.521
10	29_Unbias	119.096	127.626	-8.530
10	30_Unbias	119.029	127.631	-8.602
10	31_Unbias	118.991	127.563	-8.572
0	2_corr	117.389	117.389	0.000
20	32_Unbias	118.049	135.461	-17.412
20	33_Unbias	119.428	136.691	-17.263
20	34_Unbias	118.641	135.461	-16.820
20	35_Unbias	118.295	135.187	-16.892
20	36_Unbias	118.678	135.843	-17.165
0	2	117.389	119.134	-1.745
30	37_Unbias	118.595	139.822	-21.227
30	38_Unbias	118.982	139.294	-20.312
30	39_Unbias	118.826	138.266	-19.440
30	40_Unbias	118.635	140.301	-21.666
30	41_Unbias	118.359	139.521	-21.162
0	2_corr	117.389	119.149	-1.760
40	42_Unbias	118.888	146.038	-27.150
40	43_Unbias	118.309	146.246	-27.937
40	44_Unbias	118.523	143.605	-25.082
40	45_Unbias	119.349	142.417	-23.068
40	46_Unbias	119.000	141.648	-22.648
0	2	117.389	118.583	-1.194
50	47_Unbias	118.532	146.802	-28.270
50	48_Unbias	118.946	151.053	-32.107
50	49_Unbias	118.726	150.513	-31.787
50	50_Unbias	118.628	147.613	-28.985
50	51_Unbias	118.862	147.900	-29.038
0	2	117.389	118.583	-1.194
75	47_Unbias	118.532	150.903	-32.371
75	48_Unbias	118.946	154.076	-35.130
75	49_Unbias	118.726	154.257	-35.531
75	50_Unbias	118.628	151.915	-33.287
75	51_Unbias	118.862	152.269	-33.407
	Max	119.428	154.257	0.000
	Average	118.526	137.517	-18.991
	Min	117.389	117.389	-35.531
	Std Dev	0.586	11.687	11.333



300.7_IOS12V_CANL_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	245	mA
Min Limit	-0.9	mA

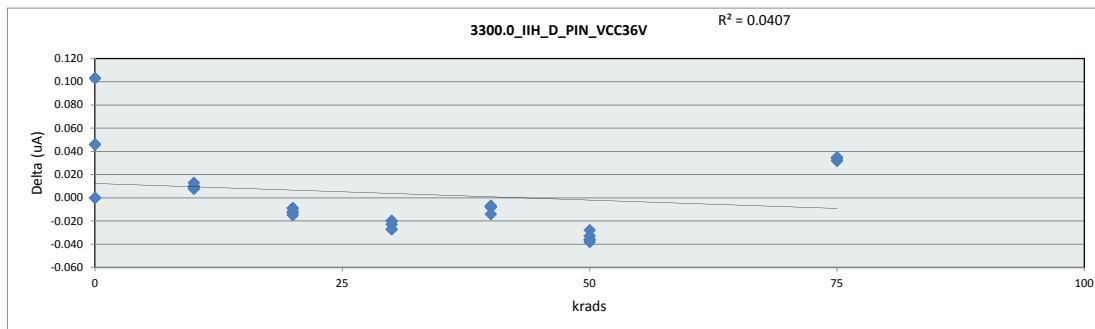
	0	10	20	30	40	50	75
LL	-0.900	-0.900	-0.900	-0.900	-0.900	-0.900	-0.900
Min	117.389	126.940	135.187	138.266	141.648	146.802	150.903
Average	118.371	127.456	135.729	139.441	143.991	148.776	152.684
Max	119.149	127.631	136.691	140.301	146.246	151.053	154.257
UL	245.000	245.000	245.000	245.000	245.000	245.000	245.000



TID 75k LDR Report
HVD233 Boac Teos

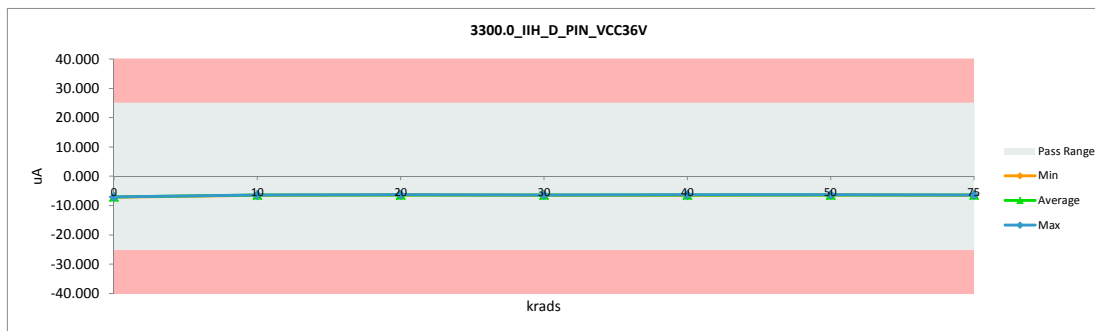
3300.0_IIH_D_PIN_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-7.002	-7.002	0.000
10	27_Unbias	-6.375	-6.383	0.008
10	28_Unbias	-6.386	-6.394	0.008
10	29_Unbias	-6.417	-6.430	0.013
10	30_Unbias	-6.438	-6.448	0.010
10	31_Unbias	-6.362	-6.372	0.010
0	2_corr	-7.002	-7.002	0.000
20	32_Unbias	-6.371	-6.358	-0.013
20	33_Unbias	-6.395	-6.386	-0.009
20	34_Unbias	-6.346	-6.337	-0.009
20	35_Unbias	-6.395	-6.383	-0.012
20	36_Unbias	-6.342	-6.327	-0.015
0	2	-7.002	-7.048	0.046
30	37_Unbias	-6.413	-6.390	-0.023
30	38_Unbias	-6.404	-6.377	-0.027
30	39_Unbias	-6.481	-6.454	-0.027
30	40_Unbias	-6.414	-6.394	-0.020
30	41_Unbias	-6.372	-6.352	-0.020
0	2_corr	-7.002	-7.048	0.046
40	42_Unbias	-6.369	-6.361	-0.008
40	43_Unbias	-6.370	-6.362	-0.008
40	44_Unbias	-6.362	-6.355	-0.007
40	45_Unbias	-6.302	-6.295	-0.007
40	46_Unbias	-6.469	-6.455	-0.014
0	2	-7.002	-7.105	0.103
50	47_Unbias	-6.387	-6.359	-0.028
50	48_Unbias	-6.438	-6.405	-0.033
50	49_Unbias	-6.429	-6.393	-0.036
50	50_Unbias	-6.340	-6.304	-0.036
50	51_Unbias	-6.382	-6.344	-0.038
0	2	-7.002	-7.105	0.103
75	47_Unbias	-6.387	-6.419	0.032
75	48_Unbias	-6.438	-6.470	0.032
75	49_Unbias	-6.429	-6.463	0.034
75	50_Unbias	-6.340	-6.374	0.034
75	51_Unbias	-6.382	-6.417	0.035
	Max	-6.302	-6.295	0.103
	Average	-6.493	-6.496	0.003
	Min	-7.002	-7.105	-0.038
	Std Dev	0.234	0.256	0.034



3300.0_IIH_D_PIN_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

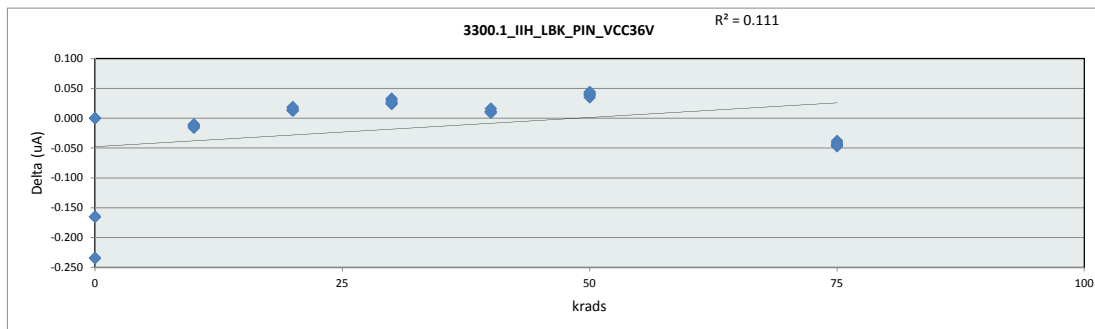
krads	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-7.105	-6.448	-6.386	-6.454	-6.455	-6.405	-6.470
Average	-7.052	-6.405	-6.358	-6.393	-6.366	-6.361	-6.429
Max	-7.002	-6.372	-6.327	-6.352	-6.295	-6.304	-6.374
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report
HVD233 Boac Teos

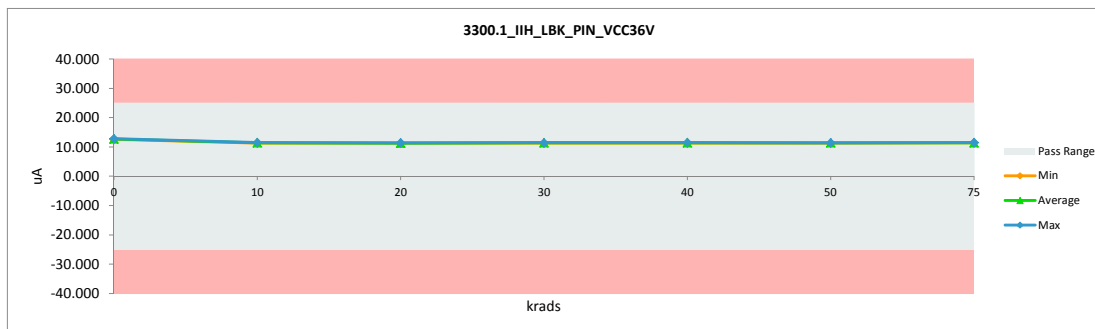
3300.1_IIH_LBK_PIN_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	12.602	12.602	0.000
10	27_Unbias	11.278	11.290	-0.012
10	28_Unbias	11.443	11.453	-0.010
10	29_Unbias	11.449	11.465	-0.016
10	30_Unbias	11.475	11.487	-0.012
10	31_Unbias	11.336	11.350	-0.014
0	2_corr	12.602	12.602	0.000
20	32_Unbias	11.441	11.425	0.016
20	33_Unbias	11.280	11.267	0.013
20	34_Unbias	11.296	11.283	0.013
20	35_Unbias	11.388	11.375	0.013
20	36_Unbias	11.427	11.408	0.019
0	2	12.602	12.767	-0.165
30	37_Unbias	11.432	11.406	0.026
30	38_Unbias	11.301	11.268	0.033
30	39_Unbias	11.501	11.471	0.030
30	40_Unbias	11.451	11.427	0.024
30	41_Unbias	11.396	11.370	0.026
0	2_corr	12.602	12.767	-0.165
40	42_Unbias	11.357	11.346	0.011
40	43_Unbias	11.389	11.378	0.011
40	44_Unbias	11.346	11.337	0.009
40	45_Unbias	11.349	11.338	0.011
40	46_Unbias	11.490	11.474	0.016
0	2	12.602	12.836	-0.234
50	47_Unbias	11.382	11.347	0.035
50	48_Unbias	11.402	11.363	0.039
50	49_Unbias	11.501	11.460	0.041
50	50_Unbias	11.377	11.336	0.041
50	51_Unbias	11.418	11.374	0.044
0	2	12.602	12.836	-0.234
75	47_Unbias	11.382	11.420	-0.038
75	48_Unbias	11.402	11.443	-0.041
75	49_Unbias	11.501	11.548	-0.047
75	50_Unbias	11.377	11.421	-0.044
75	51_Unbias	11.418	11.464	-0.046
	Max	12.602	12.836	0.044
	Average	11.600	11.617	-0.017
	Min	11.278	11.267	-0.234
	Std Dev	0.458	0.513	0.071



3300.1_IIH_LBK_PIN_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

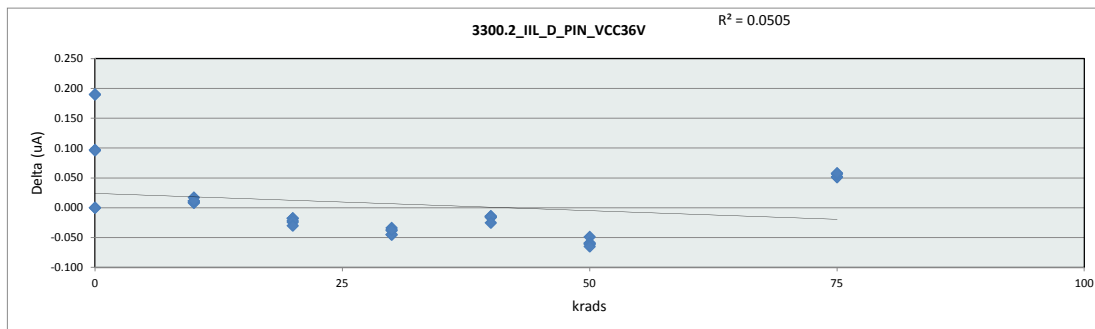
	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.602	11.290	11.267	11.268	11.337	11.336	11.420
Average	12.735	11.409	11.352	11.388	11.375	11.376	11.459
Max	12.836	11.487	11.425	11.471	11.474	11.460	11.548
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report HVD233 Boac Teos

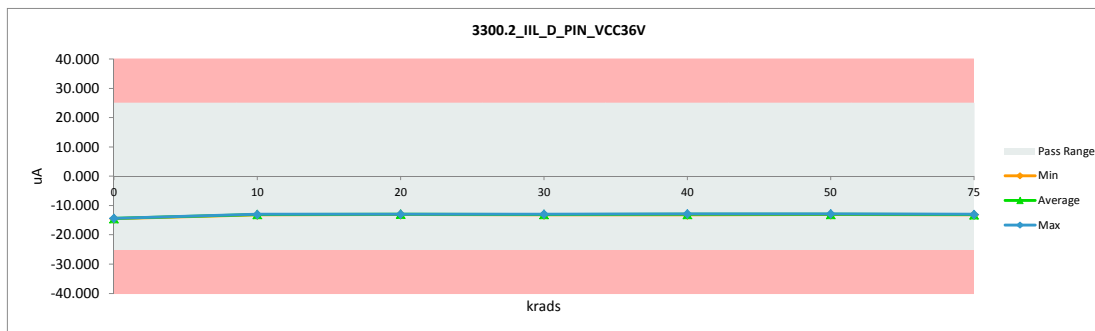
3300.2_IIL_D_PIN_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-14.333	-14.333	0.000
10	27_Unbias	-13.019	-13.028	0.009
10	28_Unbias	-13.043	-13.051	0.008
10	29_Unbias	-13.106	-13.123	0.017
10	30_Unbias	-13.152	-13.163	0.011
10	31_Unbias	-12.994	-13.005	0.011
0	2_corr	-14.333	-14.333	0.000
20	32_Unbias	-13.012	-12.988	-0.024
20	33_Unbias	-13.059	-13.041	-0.018
20	34_Unbias	-12.960	-12.942	-0.018
20	35_Unbias	-13.063	-13.041	-0.022
20	36_Unbias	-12.955	-12.925	-0.030
0	2	-14.333	-14.430	0.097
30	37_Unbias	-13.099	-13.061	-0.038
30	38_Unbias	-13.077	-13.032	-0.045
30	39_Unbias	-13.238	-13.193	-0.045
30	40_Unbias	-13.102	-13.068	-0.034
30	41_Unbias	-13.017	-12.980	-0.037
0	2_corr	-14.333	-14.429	0.096
40	42_Unbias	-13.009	-12.994	-0.015
40	43_Unbias	-13.012	-12.996	-0.016
40	44_Unbias	-12.996	-12.982	-0.014
40	45_Unbias	-12.870	-12.855	-0.015
40	46_Unbias	-13.213	-13.188	-0.025
0	2	-14.333	-14.523	0.190
50	47_Unbias	-13.048	-12.999	-0.049
50	48_Unbias	-13.153	-13.094	-0.059
50	49_Unbias	-13.133	-13.072	-0.061
50	50_Unbias	-12.948	-12.888	-0.060
50	51_Unbias	-13.034	-12.969	-0.065
0	2	-14.333	-14.523	0.190
75	47_Unbias	-13.048	-13.100	0.052
75	48_Unbias	-13.153	-13.204	0.051
75	49_Unbias	-13.133	-13.190	0.057
75	50_Unbias	-12.948	-13.005	0.057
75	51_Unbias	-13.034	-13.092	0.058
	Max	-12.870	-12.855	0.190
	Average	-13.267	-13.273	0.006
	Min	-14.333	-14.523	-0.065
	Std Dev	0.489	0.531	0.062



3300.2_IIL_D_PIN_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

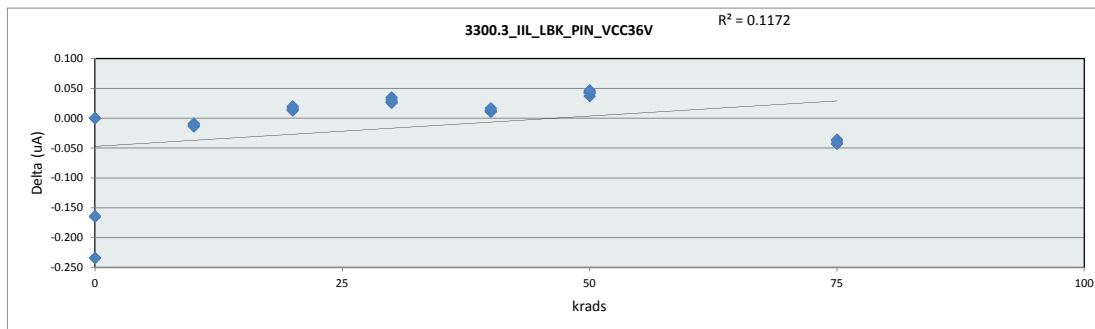
krads	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	-14.523	-13.163	-13.041	-13.193	-13.188	-13.094	-13.204
Average	-14.429	-13.074	-12.987	-13.067	-13.003	-13.004	-13.118
Max	-14.333	-13.005	-12.925	-12.980	-12.855	-12.888	-13.005
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report HVD233 Boac Teos

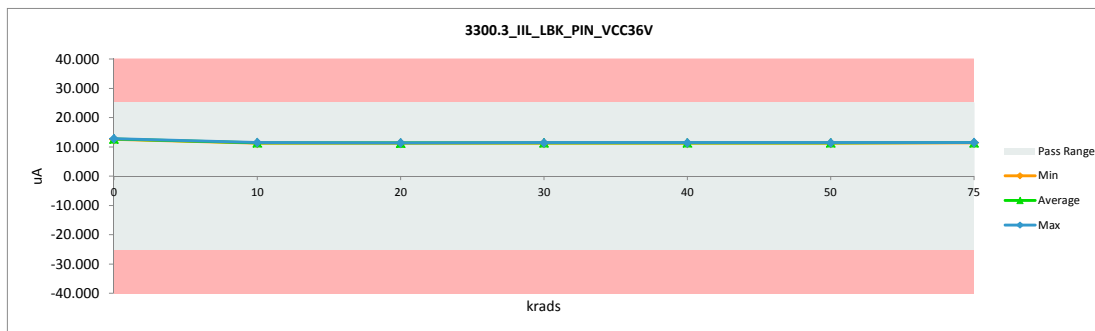
3300.3_IL_LBK_PIN_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	25	25
Min Limit	-25	-25

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	12.594	12.594	0.000
10	27_Unbias	11.270	11.280	-0.010
10	28_Unbias	11.435	11.444	-0.009
10	29_Unbias	11.442	11.456	-0.014
10	30_Unbias	11.467	11.477	-0.010
10	31_Unbias	11.329	11.341	-0.012
0	2_corr	12.594	12.594	0.000
20	32_Unbias	11.433	11.415	0.018
20	33_Unbias	11.272	11.259	0.013
20	34_Unbias	11.288	11.274	0.014
20	35_Unbias	11.380	11.365	0.015
20	36_Unbias	11.419	11.399	0.020
0	2	12.594	12.759	-0.165
30	37_Unbias	11.425	11.397	0.028
30	38_Unbias	11.293	11.258	0.035
30	39_Unbias	11.493	11.462	0.031
30	40_Unbias	11.443	11.417	0.026
30	41_Unbias	11.388	11.361	0.027
0	2_corr	12.594	12.758	-0.164
40	42_Unbias	11.349	11.337	0.012
40	43_Unbias	11.381	11.368	0.013
40	44_Unbias	11.339	11.328	0.011
40	45_Unbias	11.342	11.329	0.013
40	46_Unbias	11.482	11.465	0.017
0	2	12.594	12.828	-0.234
50	47_Unbias	11.375	11.338	0.037
50	48_Unbias	11.395	11.353	0.042
50	49_Unbias	11.494	11.450	0.044
50	50_Unbias	11.369	11.326	0.043
50	51_Unbias	11.411	11.364	0.047
0	2	12.594	12.828	-0.234
75	47_Unbias	11.375	11.413	-0.038
75	48_Unbias	11.395	11.431	-0.036
75	49_Unbias	11.494	11.536	-0.042
75	50_Unbias	11.369	11.411	-0.042
75	51_Unbias	11.411	11.454	-0.043
	Max	12.594	12.828	0.047
	Average	11.592	11.607	-0.015
	Min	11.270	11.258	-0.234
	Std Dev	0.458	0.513	0.072



3300.3_IL_LBK_PIN_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	25	uA
Min Limit	-25	uA

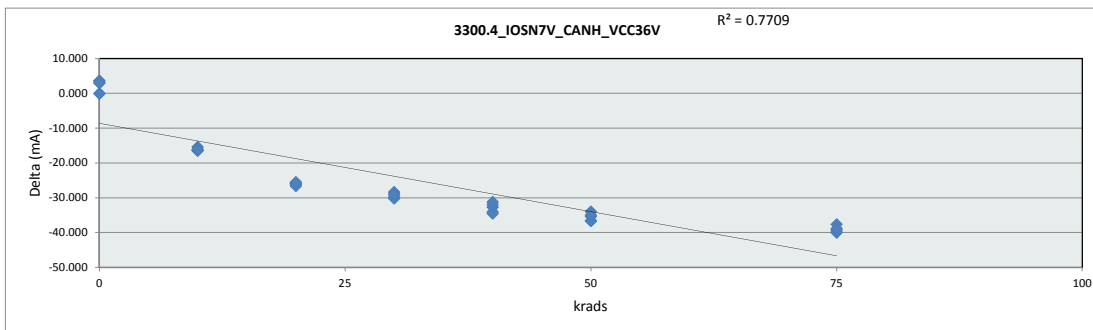
krads	0	10	20	30	40	50	75
LL	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000	-25.000
Min	12.594	11.280	11.259	11.258	11.328	11.326	11.411
Average	12.727	11.400	11.342	11.379	11.365	11.366	11.449
Max	12.828	11.477	11.415	11.462	11.465	11.450	11.536
UL	25.000	25.000	25.000	25.000	25.000	25.000	25.000



TID 75k LDR Report
HVD233 Boac Teos

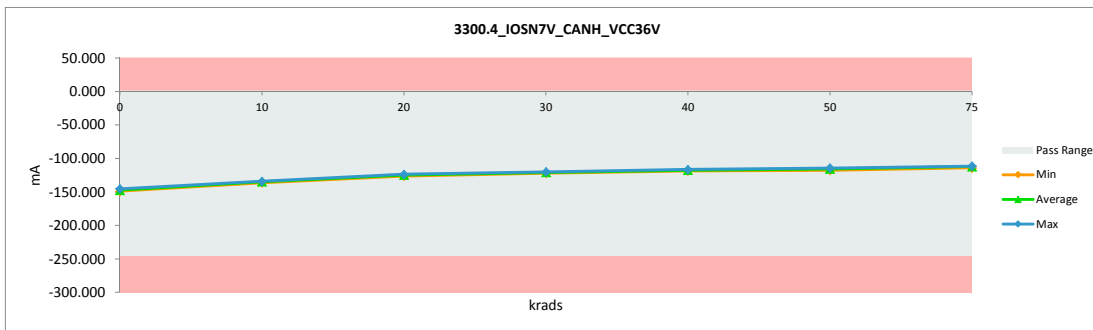
3300.4_IOSN7V_CANH_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	0.9	0.9
Min Limit	-245	-245

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-145.273	-145.273	0.000
10	27_Unbias	-150.480	-134.167	-16.313
10	28_Unbias	-151.831	-136.393	-15.438
10	29_Unbias	-150.837	-134.718	-16.119
10	30_Unbias	-151.386	-134.933	-16.453
10	31_Unbias	-150.475	-134.269	-16.206
0	2_corr	-145.273	-145.273	0.000
20	32_Unbias	-151.279	-125.155	-26.124
20	33_Unbias	-151.599	-125.591	-26.008
20	34_Unbias	-149.924	-124.044	-25.880
20	35_Unbias	-150.244	-123.603	-26.641
20	36_Unbias	-151.804	-126.294	-25.510
0	2	-145.273	-148.944	3.671
30	37_Unbias	-150.087	-120.257	-29.830
30	38_Unbias	-150.481	-122.124	-28.357
30	39_Unbias	-148.925	-119.895	-29.030
30	40_Unbias	-150.693	-120.454	-30.239
30	41_Unbias	-151.010	-121.904	-29.106
0	2_corr	-145.273	-148.777	3.504
40	42_Unbias	-151.528	-117.430	-34.098
40	43_Unbias	-150.929	-116.398	-34.531
40	44_Unbias	-151.220	-118.578	-32.642
40	45_Unbias	-149.330	-117.387	-31.943
40	46_Unbias	-149.673	-118.505	-31.168
0	2	-145.273	-148.287	3.014
50	47_Unbias	-151.651	-117.683	-33.968
50	48_Unbias	-150.888	-114.268	-36.620
50	49_Unbias	-151.541	-114.897	-36.644
50	50_Unbias	-150.651	-115.268	-35.383
50	51_Unbias	-151.039	-116.073	-34.966
0	2	-145.273	-148.287	3.014
75	47_Unbias	-151.651	-114.036	-37.615
75	48_Unbias	-150.888	-111.303	-39.585
75	49_Unbias	-151.541	-111.526	-40.015
75	50_Unbias	-150.651	-111.453	-39.198
75	51_Unbias	-151.039	-112.159	-38.880
	Max	-145.273	-111.303	3.671
	Average	-149.914	-125.434	-24.481
	Min	-151.831	-148.944	-40.015
	Std Dev	2.208	12.164	13.949



3300.4_IOSN7V_CANH_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.9	mA
Min Limit	-245	mA

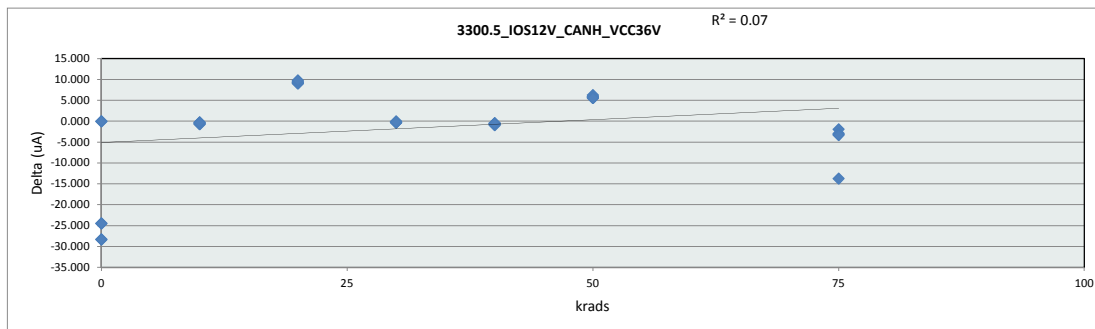
	0	10	20	30	40	50	75
LL	-245.000	-245.000	-245.000	-245.000	-245.000	-245.000	-245.000
Min	-148.944	-136.393	-126.294	-122.124	-118.578	-117.683	-114.036
Average	-147.474	-134.896	-124.937	-120.927	-117.660	-115.638	-112.095
Max	-145.273	-134.167	-123.603	-119.895	-116.398	-114.268	-111.303
UL	0.900	0.900	0.900	0.900	0.900	0.900	0.900



TID 75k LDR Report
HVD233 Boac Teos

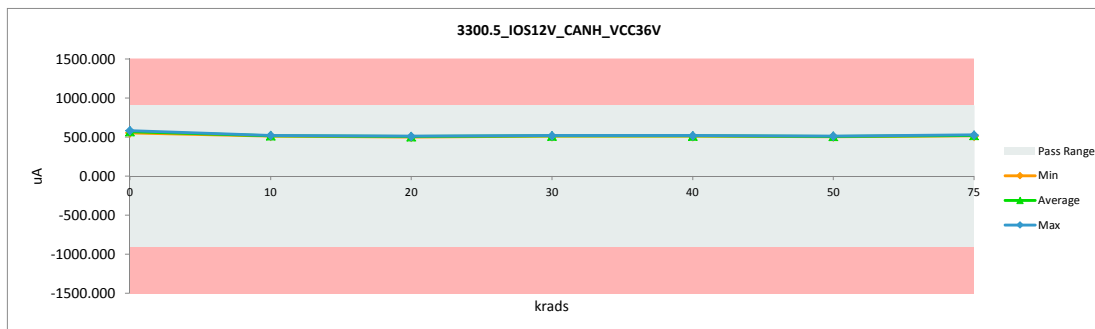
3300.5_IOS12V_CANH_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	554.450	554.450	0.000
10	27_Unbias	512.427	512.946	-0.519
10	28_Unbias	513.467	514.135	-0.668
10	29_Unbias	519.522	520.259	-0.737
10	30_Unbias	521.320	521.591	-0.271
10	31_Unbias	513.451	513.787	-0.336
0	2_corr	554.450	554.450	0.000
20	32_Unbias	514.090	504.874	9.216
20	33_Unbias	519.940	510.914	9.026
20	34_Unbias	511.378	502.194	9.184
20	35_Unbias	518.092	508.623	9.469
20	36_Unbias	516.601	506.812	9.789
0	2	554.450	578.921	-24.471
30	37_Unbias	515.323	515.662	-0.339
30	38_Unbias	511.595	511.879	-0.284
30	39_Unbias	519.931	519.977	-0.046
30	40_Unbias	517.973	518.231	-0.258
30	41_Unbias	511.247	511.473	-0.226
0	2_corr	554.450	578.896	-24.446
40	42_Unbias	517.449	518.375	-0.926
40	43_Unbias	513.229	513.711	-0.482
40	44_Unbias	516.716	517.174	-0.458
40	45_Unbias	510.804	511.617	-0.813
40	46_Unbias	519.407	519.986	-0.579
0	2	554.450	582.733	-28.283
50	47_Unbias	513.742	508.178	5.564
50	48_Unbias	520.669	514.449	6.220
50	49_Unbias	517.965	512.153	5.812
50	50_Unbias	512.189	506.326	5.863
50	51_Unbias	512.599	507.030	5.569
0	2	554.450	582.733	-28.283
75	47_Unbias	513.742	527.456	-13.714
75	48_Unbias	520.669	522.589	-1.920
75	49_Unbias	517.965	520.929	-2.964
75	50_Unbias	512.189	515.337	-3.148
75	51_Unbias	512.599	515.914	-3.315
	Max	554.450	582.733	9.789
	Average	522.083	523.799	-1.716
	Min	510.804	502.194	-28.283
	Std Dev	14.999	23.110	10.030



3300.5_IOS12V_CANH_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	900	uA
Min Limit	-900	uA

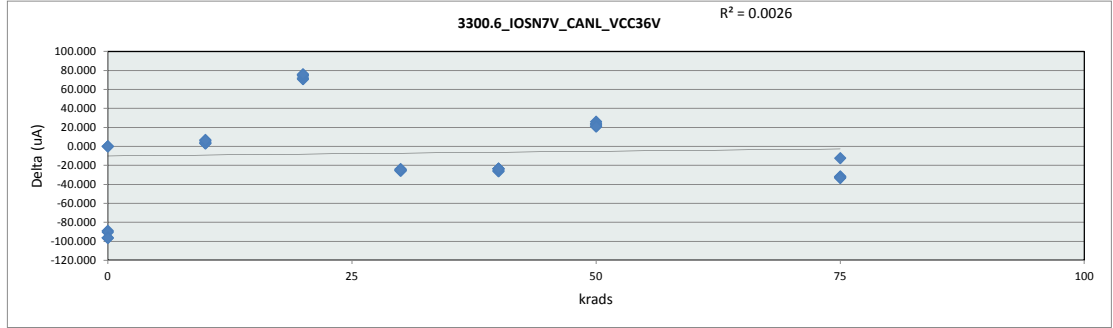
	0	10	20	30	40	50	75
LL	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000
Min	554.450	512.946	502.194	511.473	511.617	506.326	515.337
Average	572.031	516.544	506.683	515.444	516.173	509.627	520.445
Max	582.733	521.591	510.914	519.977	519.986	514.449	527.456
UL	900.000	900.000	900.000	900.000	900.000	900.000	900.000



TID 75k LDR Report
HVD233 Boac Teos

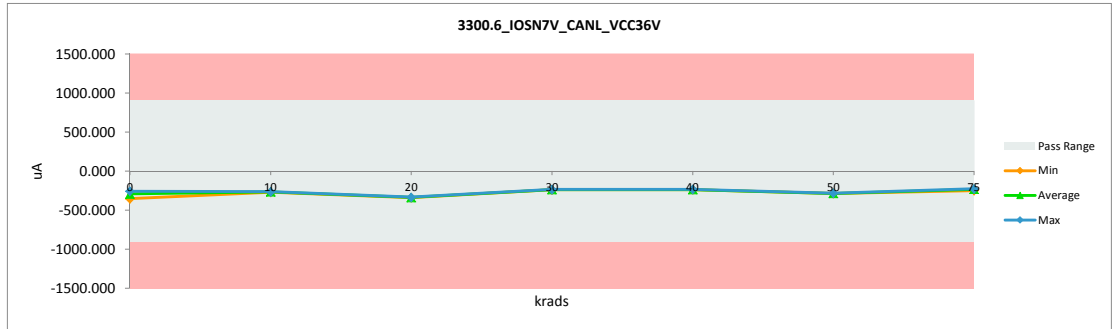
3300.6_IOSN7V_CANL_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	900	900
Min Limit	-900	-900

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-353.529	-353.529	0.000
10	27_Unbias	-258.894	-262.515	3.621
10	28_Unbias	-260.166	-264.650	4.484
10	29_Unbias	-263.244	-266.538	3.294
10	30_Unbias	-262.874	-269.698	6.824
10	31_Unbias	-258.401	-264.568	6.167
0	2_corr	-353.529	-353.529	0.000
20	32_Unbias	-262.464	-333.477	71.013
20	33_Unbias	-264.393	-336.512	72.119
20	34_Unbias	-259.181	-333.846	74.665
20	35_Unbias	-262.956	-338.562	75.606
20	36_Unbias	-263.326	-339.300	75.974
0	2	-353.529	-264.820	-88.709
30	37_Unbias	-260.617	-235.045	-25.572
30	38_Unbias	-259.632	-234.143	-25.489
30	39_Unbias	-261.233	-237.465	-23.768
30	40_Unbias	-262.546	-237.711	-24.835
30	41_Unbias	-258.648	-234.225	-24.423
0	2_corr	-353.529	-263.343	-90.186
40	42_Unbias	-261.602	-235.373	-26.229
40	43_Unbias	-258.278	-232.953	-25.325
40	44_Unbias	-260.084	-236.480	-23.604
40	45_Unbias	-260.043	-236.480	-23.563
40	46_Unbias	-260.658	-237.137	-23.521
0	2	-353.529	-257.137	-96.392
50	47_Unbias	-260.371	-286.474	26.103
50	48_Unbias	-265.008	-286.433	21.425
50	49_Unbias	-262.136	-285.203	23.067
50	50_Unbias	-258.812	-282.906	24.094
50	51_Unbias	-259.591	-280.733	21.142
0	2	-353.529	-257.137	-96.392
75	47_Unbias	-260.371	-247.906	-12.465
75	48_Unbias	-265.008	-233.383	-31.625
75	49_Unbias	-262.136	-229.608	-32.528
75	50_Unbias	-258.812	-226.613	-32.199
75	51_Unbias	-259.591	-226.367	-33.224
	Max	-258.278	-226.367	75.974
	Average	-276.451	-269.494	-6.957
	Min	-353.529	-353.529	-96.392
	Std Dev	35.006	40.212	45.798



3300.6_IOSN7V_CANL_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	900	uA
Min Limit	-900	uA

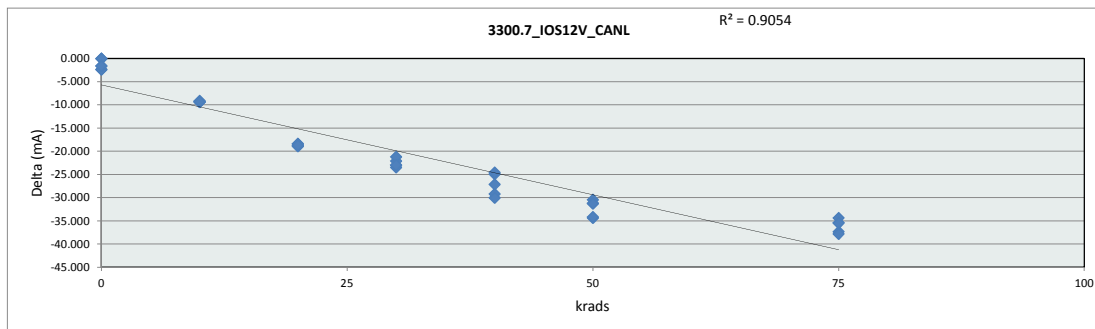
	0	10	20	30	40	50	75
LL	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000	-900.000
Min	-353.529	-269.698	-339.300	-237.711	-237.137	-286.474	-247.906
Average	-291.583	-265.594	-336.339	-235.718	-235.685	-284.350	-232.775
Max	-257.137	-262.515	-333.477	-234.143	-232.953	-280.733	-226.367
UL	900.000	900.000	900.000	900.000	900.000	900.000	900.000



TID 75k LDR Report
HVD233 Boac Teos

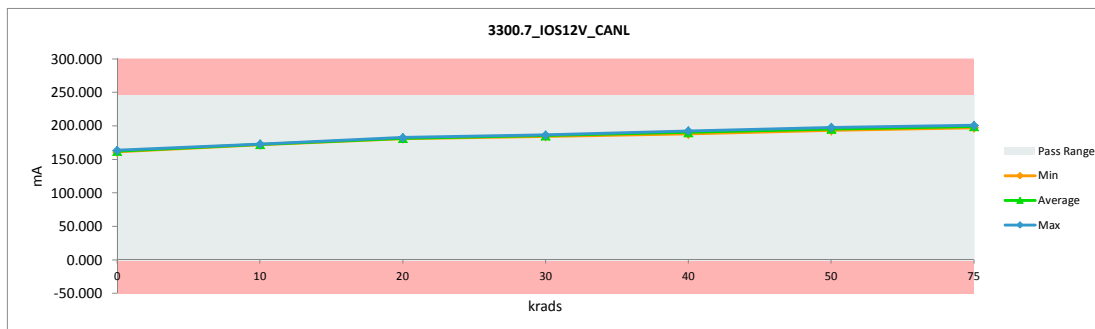
3300.7_IOS12V_CANL		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	245	245
Min Limit	-0.9	-0.9

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	161.117	161.117	0.000
10	27_Unbias	162.790	171.918	-9.128
10	28_Unbias	163.352	172.630	-9.278
10	29_Unbias	163.486	172.782	-9.296
10	30_Unbias	163.442	172.813	-9.371
10	31_Unbias	163.362	172.694	-9.332
0	2_corr	161.117	161.117	0.000
20	32_Unbias	162.220	181.149	-18.929
20	33_Unbias	163.843	182.663	-18.820
20	34_Unbias	162.885	181.213	-18.328
20	35_Unbias	162.590	181.029	-18.439
20	36_Unbias	162.971	181.706	-18.735
0	2	161.117	163.492	-2.375
30	37_Unbias	162.914	185.871	-22.957
30	38_Unbias	163.231	185.300	-22.069
30	39_Unbias	163.186	184.399	-21.213
30	40_Unbias	162.977	186.446	-23.469
30	41_Unbias	162.558	185.518	-22.960
0	2_corr	161.117	163.484	-2.367
40	42_Unbias	163.212	192.398	-29.186
40	43_Unbias	162.482	192.508	-30.026
40	44_Unbias	162.758	189.851	-27.093
40	45_Unbias	163.718	188.627	-24.909
40	46_Unbias	163.410	187.947	-24.537
0	2	161.117	162.705	-1.588
50	47_Unbias	162.802	193.239	-30.437
50	48_Unbias	163.375	197.729	-34.354
50	49_Unbias	163.074	197.246	-34.172
50	50_Unbias	162.932	194.143	-31.211
50	51_Unbias	163.160	194.391	-31.231
0	2	161.117	162.705	-1.588
75	47_Unbias	162.802	197.181	-34.379
75	48_Unbias	163.375	200.694	-37.319
75	49_Unbias	163.074	200.856	-37.782
75	50_Unbias	162.932	198.334	-35.402
75	51_Unbias	163.160	198.601	-35.441
	Max	163.843	200.856	0.000
	Average	162.744	183.236	-20.492
	Min	161.117	161.117	-37.782
	Std Dev	0.809	12.540	12.019



3300.7_IOS12V_CANL		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	245	mA
Min Limit	-0.9	mA

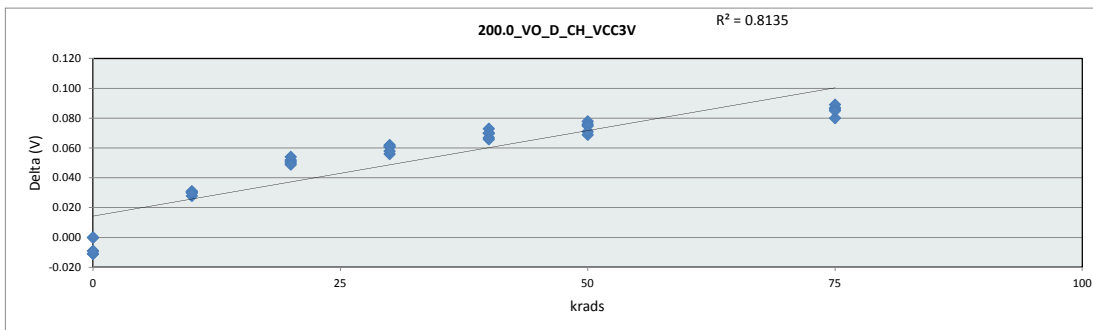
krads	0	10	20	30	40	50	75
LL	-0.900	-0.900	-0.900	-0.900	-0.900	-0.900	-0.900
Min	161.117	171.918	181.029	184.399	187.947	193.239	197.181
Average	162.437	172.567	181.552	185.507	190.266	195.350	199.133
Max	163.492	172.813	182.663	186.446	192.508	197.729	200.856
UL	245.000	245.000	245.000	245.000	245.000	245.000	245.000



TID 75k LDR Report
HVD233 Boac Teos

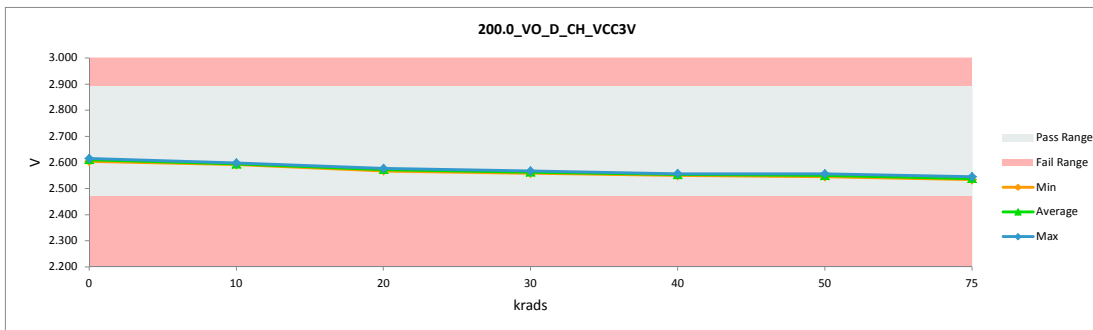
200.0_VO_D_CH_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.89	2.89
Min Limit	2.47	2.47

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	2.604	2.604	0.000
10	27_Unbias	2.623	2.592	0.031
10	28_Unbias	2.626	2.598	0.028
10	29_Unbias	2.624	2.594	0.030
10	30_Unbias	2.625	2.594	0.031
10	31_Unbias	2.623	2.593	0.030
0	2_corr	2.604	2.604	0.000
20	32_Unbias	2.624	2.574	0.050
20	33_Unbias	2.625	2.574	0.051
20	34_Unbias	2.622	2.570	0.052
20	35_Unbias	2.622	2.568	0.054
20	36_Unbias	2.626	2.577	0.049
0	2	2.604	2.615	-0.011
30	37_Unbias	2.622	2.560	0.062
30	38_Unbias	2.623	2.567	0.056
30	39_Unbias	2.620	2.559	0.061
30	40_Unbias	2.623	2.562	0.061
30	41_Unbias	2.624	2.566	0.058
0	2_corr	2.604	2.615	-0.011
40	42_Unbias	2.625	2.555	0.070
40	43_Unbias	2.624	2.551	0.073
40	44_Unbias	2.624	2.557	0.067
40	45_Unbias	2.620	2.550	0.070
40	46_Unbias	2.621	2.555	0.066
0	2	2.604	2.613	-0.009
50	47_Unbias	2.625	2.556	0.069
50	48_Unbias	2.624	2.546	0.078
50	49_Unbias	2.625	2.549	0.076
50	50_Unbias	2.623	2.548	0.075
50	51_Unbias	2.623	2.552	0.071
0	2	2.604	2.613	-0.009
75	47_Unbias	2.625	2.545	0.080
75	48_Unbias	2.624	2.538	0.086
75	49_Unbias	2.625	2.538	0.087
75	50_Unbias	2.623	2.534	0.089
75	51_Unbias	2.623	2.538	0.085
	Max	2.626	2.615	0.089
	Average	2.620	2.570	0.050
	Min	2.604	2.534	-0.011
	Std Dev	0.008	0.025	0.031



200.0_VO_D_CH_VCC3V	
Test Site	Dallas, Tx
Tester	ETS
Test Number	EF580300
Max Limit	2.89 V
Min Limit	2.47 V

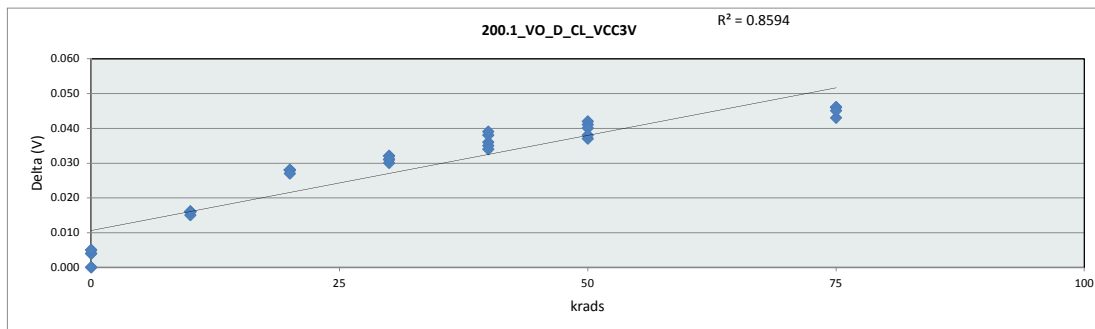
	0	10	20	30	40	50	75
LL	2.470	2.470	2.470	2.470	2.470	2.470	2.470
Min	2.604	2.592	2.568	2.559	2.550	2.546	2.534
Average	2.611	2.594	2.573	2.563	2.554	2.550	2.539
Max	2.615	2.598	2.577	2.567	2.557	2.556	2.545
UL	2.890	2.890	2.890	2.890	2.890	2.890	2.890



TID 75k LDR Report
HVD233 Boac Teos

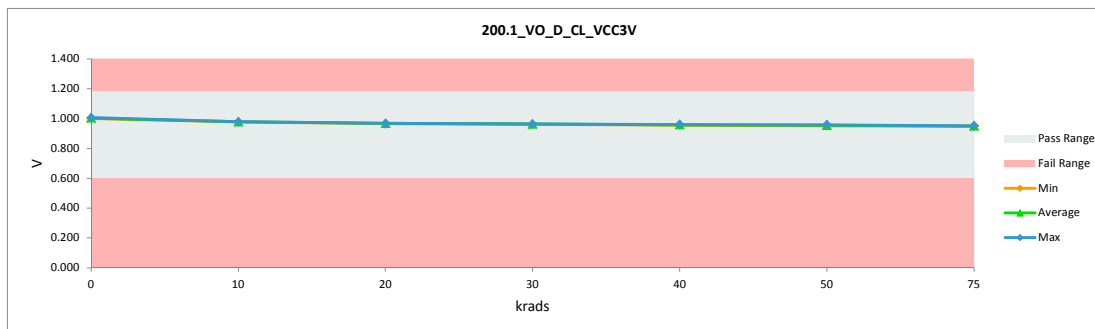
200.1_VO_D_CL_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	1.18	1.18
Min Limit	0.6	0.6

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	1.007	1.007	0.000
10	27_Unbias	0.996	0.980	0.016
10	28_Unbias	0.995	0.980	0.015
10	29_Unbias	0.995	0.979	0.016
10	30_Unbias	0.994	0.978	0.016
10	31_Unbias	0.995	0.979	0.016
0	2_corr	1.007	1.007	0.000
20	32_Unbias	0.997	0.969	0.028
20	33_Unbias	0.995	0.967	0.028
20	34_Unbias	0.996	0.968	0.028
20	35_Unbias	0.996	0.968	0.028
20	36_Unbias	0.996	0.969	0.027
0	2	1.007	1.003	0.004
30	37_Unbias	0.996	0.964	0.032
30	38_Unbias	0.995	0.965	0.030
30	39_Unbias	0.994	0.963	0.031
30	40_Unbias	0.996	0.964	0.032
30	41_Unbias	0.996	0.965	0.031
0	2_corr	1.007	1.003	0.004
40	42_Unbias	0.996	0.958	0.038
40	43_Unbias	0.996	0.957	0.039
40	44_Unbias	0.997	0.961	0.036
40	45_Unbias	0.994	0.959	0.035
40	46_Unbias	0.994	0.960	0.034
0	2	1.007	1.002	0.005
50	47_Unbias	0.996	0.959	0.037
50	48_Unbias	0.995	0.953	0.042
50	49_Unbias	0.995	0.954	0.041
50	50_Unbias	0.996	0.956	0.040
50	51_Unbias	0.995	0.957	0.038
0	2	1.007	1.002	0.005
75	47_Unbias	0.996	0.953	0.043
75	48_Unbias	0.995	0.949	0.046
75	49_Unbias	0.995	0.949	0.046
75	50_Unbias	0.996	0.950	0.046
75	51_Unbias	0.995	0.950	0.045
	Max	1.007	1.007	0.046
	Average	0.997	0.970	0.028
	Min	0.994	0.949	0.000
	Std Dev	0.004	0.018	0.014



200.1_VO_D_CL_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	1.18	V
Min Limit	0.6	V

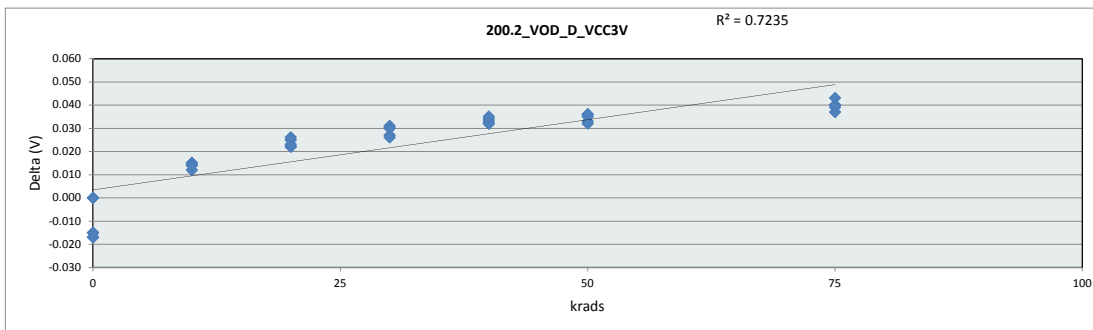
	0	10	20	30	40	50	75
LL	0.600	0.600	0.600	0.600	0.600	0.600	0.600
Min	1.002	0.978	0.967	0.963	0.957	0.953	0.949
Average	1.004	0.979	0.968	0.964	0.959	0.956	0.950
Max	1.007	0.980	0.969	0.965	0.961	0.959	0.953
UL	1.180	1.180	1.180	1.180	1.180	1.180	1.180



TID 75k LDR Report
HVD233 Boac Teos

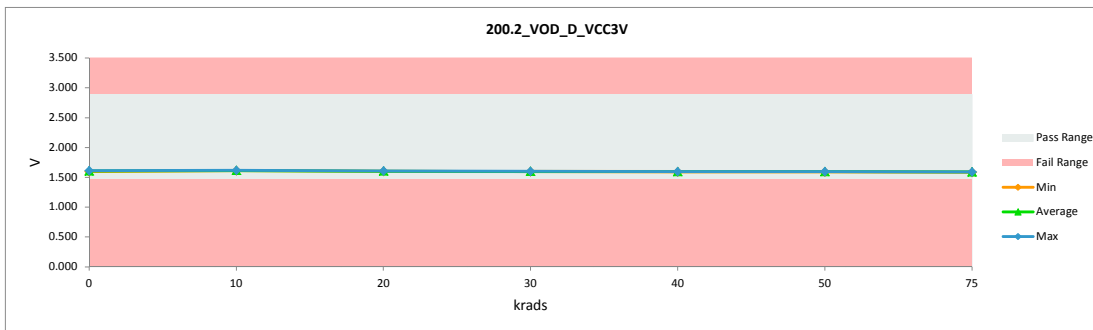
200.2_VOD_D_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.89	2.89
Min Limit	1.475	1.475

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.596	1.596	0.000
10	27_Unbias	1.627	1.612	0.015
10	28_Unbias	1.630	1.618	0.012
10	29_Unbias	1.630	1.615	0.015
10	30_Unbias	1.630	1.616	0.014
10	31_Unbias	1.628	1.614	0.014
0	2_corr	1.596	1.596	0.000
20	32_Unbias	1.627	1.605	0.022
20	33_Unbias	1.630	1.607	0.023
20	34_Unbias	1.626	1.601	0.025
20	35_Unbias	1.626	1.600	0.026
20	36_Unbias	1.630	1.608	0.022
0	2	1.596	1.613	-0.017
30	37_Unbias	1.627	1.597	0.030
30	38_Unbias	1.628	1.601	0.027
30	39_Unbias	1.627	1.596	0.031
30	40_Unbias	1.628	1.598	0.030
30	41_Unbias	1.627	1.601	0.026
0	2_corr	1.596	1.613	-0.017
40	42_Unbias	1.630	1.597	0.033
40	43_Unbias	1.627	1.593	0.034
40	44_Unbias	1.628	1.596	0.032
40	45_Unbias	1.626	1.591	0.035
40	46_Unbias	1.627	1.595	0.032
0	2	1.596	1.611	-0.015
50	47_Unbias	1.629	1.597	0.032
50	48_Unbias	1.629	1.593	0.036
50	49_Unbias	1.630	1.594	0.036
50	50_Unbias	1.627	1.592	0.035
50	51_Unbias	1.628	1.595	0.033
0	2	1.596	1.611	-0.015
75	47_Unbias	1.629	1.592	0.037
75	48_Unbias	1.629	1.590	0.039
75	49_Unbias	1.630	1.590	0.040
75	50_Unbias	1.627	1.584	0.043
75	51_Unbias	1.628	1.588	0.040
	Max	1.630	1.618	0.043
	Average	1.623	1.600	0.022
	Min	1.596	1.584	-0.017
	Std Dev	0.012	0.009	0.017



200.2_VOD_D_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	2.89 V	
Min Limit	1.475 V	

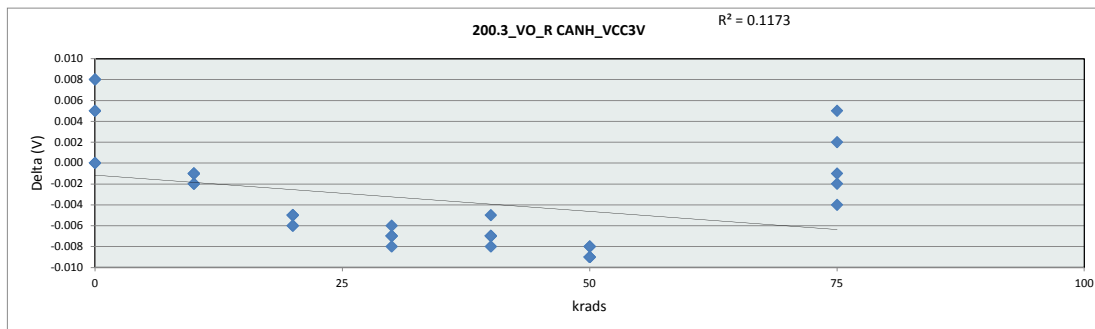
	0	10	20	30	40	50	75
LL	1.475	1.475	1.475	1.475	1.475	1.475	1.475
Min	1.596	1.612	1.600	1.596	1.591	1.592	1.584
Average	1.607	1.615	1.604	1.599	1.594	1.594	1.589
Max	1.613	1.618	1.608	1.601	1.597	1.597	1.592
UL	2.890	2.890	2.890	2.890	2.890	2.890	2.890



TID 75k LDR Report HVD233 Boac Teos

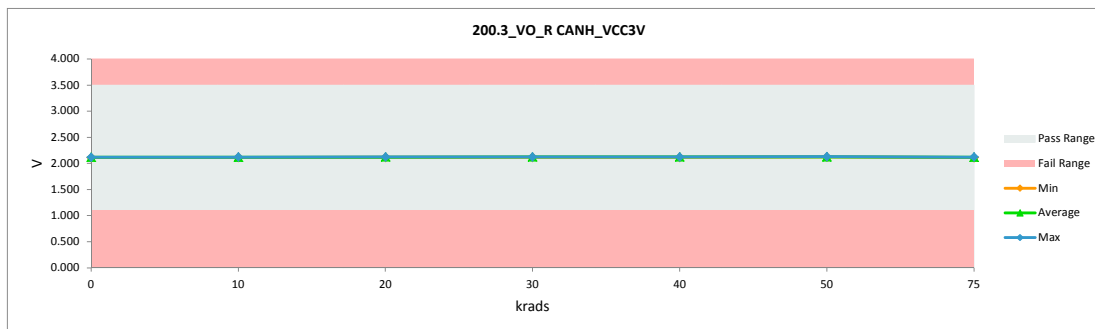
200.3_VO_R CANH_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.5	3.5
Min Limit	1.1	1.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	2.120	2.120	0.000
10	27_Unbias	2.112	2.114	-0.002
10	28_Unbias	2.113	2.114	-0.001
10	29_Unbias	2.117	2.118	-0.001
10	30_Unbias	2.119	2.121	-0.002
10	31_Unbias	2.114	2.115	-0.001
0	2_corr	2.120	2.120	0.000
20	32_Unbias	2.114	2.119	-0.005
20	33_Unbias	2.117	2.123	-0.006
20	34_Unbias	2.113	2.118	-0.005
20	35_Unbias	2.117	2.122	-0.005
20	36_Unbias	2.118	2.124	-0.006
0	2	2.120	2.115	0.005
30	37_Unbias	2.116	2.123	-0.007
30	38_Unbias	2.114	2.121	-0.007
30	39_Unbias	2.113	2.120	-0.007
30	40_Unbias	2.117	2.125	-0.008
30	41_Unbias	2.115	2.121	-0.006
0	2_corr	2.120	2.115	0.005
40	42_Unbias	2.117	2.125	-0.008
40	43_Unbias	2.116	2.123	-0.007
40	44_Unbias	2.117	2.124	-0.007
40	45_Unbias	2.115	2.120	-0.005
40	46_Unbias	2.114	2.121	-0.007
0	2	2.120	2.112	0.008
50	47_Unbias	2.117	2.125	-0.008
50	48_Unbias	2.121	2.130	-0.009
50	49_Unbias	2.117	2.125	-0.008
50	50_Unbias	2.114	2.123	-0.009
50	51_Unbias	2.114	2.123	-0.009
0	2	2.120	2.112	0.008
75	47_Unbias	2.117	2.121	-0.004
75	48_Unbias	2.121	2.119	0.002
75	49_Unbias	2.117	2.112	0.005
75	50_Unbias	2.114	2.116	-0.002
75	51_Unbias	2.114	2.115	-0.001
	Max	2.121	2.130	0.008
	Average	2.117	2.120	-0.003
	Min	2.112	2.112	-0.009
	Std Dev	0.003	0.004	0.005



200.3_VO_R CANH_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3.5	V
Min Limit	1.1	V

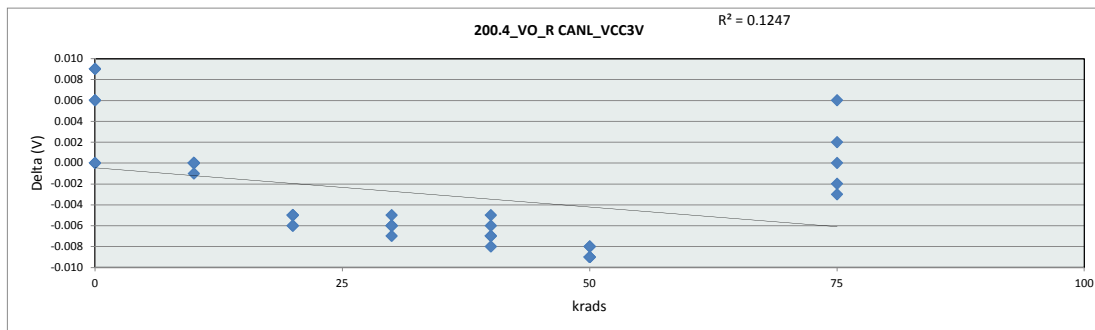
	0	10	20	30	40	50	75
LL	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Min	2.112	2.114	2.118	2.120	2.120	2.123	2.112
Average	2.116	2.116	2.121	2.122	2.123	2.125	2.117
Max	2.120	2.121	2.124	2.125	2.125	2.130	2.121
UL	3.500	3.500	3.500	3.500	3.500	3.500	3.500



TID 75k LDR Report HVD233 Boac Teos

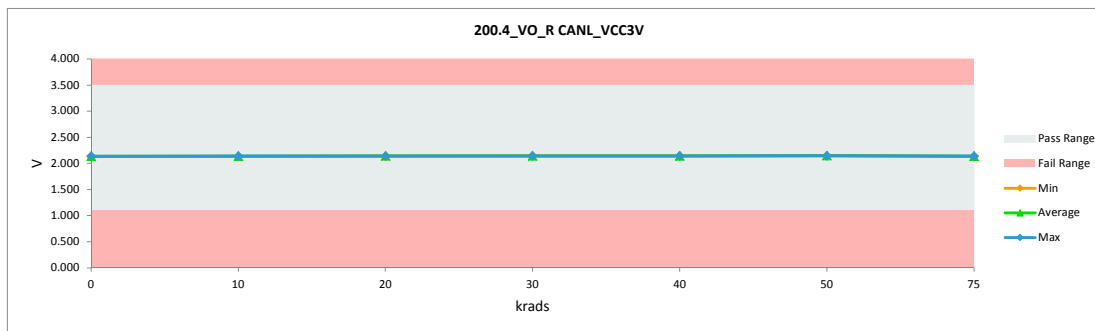
200.4_VO_R CANL_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.5	3.5
Min Limit	1.1	1.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	2.139	2.139	0.000
10	27_Unbias	2.133	2.134	-0.001
10	28_Unbias	2.134	2.134	0.000
10	29_Unbias	2.138	2.138	0.000
10	30_Unbias	2.140	2.140	0.000
10	31_Unbias	2.135	2.135	0.000
0	2_corr	2.139	2.139	0.000
20	32_Unbias	2.135	2.140	-0.005
20	33_Unbias	2.138	2.144	-0.006
20	34_Unbias	2.134	2.139	-0.005
20	35_Unbias	2.137	2.143	-0.006
20	36_Unbias	2.139	2.144	-0.005
0	2	2.139	2.133	0.006
30	37_Unbias	2.137	2.143	-0.006
30	38_Unbias	2.135	2.141	-0.006
30	39_Unbias	2.134	2.140	-0.006
30	40_Unbias	2.138	2.145	-0.007
30	41_Unbias	2.136	2.141	-0.005
0	2_corr	2.139	2.133	0.006
40	42_Unbias	2.137	2.145	-0.008
40	43_Unbias	2.137	2.144	-0.007
40	44_Unbias	2.138	2.144	-0.006
40	45_Unbias	2.136	2.141	-0.005
40	46_Unbias	2.134	2.141	-0.007
0	2	2.139	2.130	0.009
50	47_Unbias	2.138	2.146	-0.008
50	48_Unbias	2.141	2.150	-0.009
50	49_Unbias	2.138	2.146	-0.008
50	50_Unbias	2.135	2.144	-0.009
50	51_Unbias	2.135	2.144	-0.009
0	2	2.139	2.130	0.009
75	47_Unbias	2.138	2.141	-0.003
75	48_Unbias	2.141	2.139	0.002
75	49_Unbias	2.138	2.132	0.006
75	50_Unbias	2.135	2.137	-0.002
75	51_Unbias	2.135	2.135	0.000
	Max	2.141	2.150	0.009
	Average	2.137	2.140	-0.003
	Min	2.133	2.130	-0.009
	Std Dev	0.002	0.005	0.005



200.4_VO_R CANL_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3.5	V
Min Limit	1.1	V

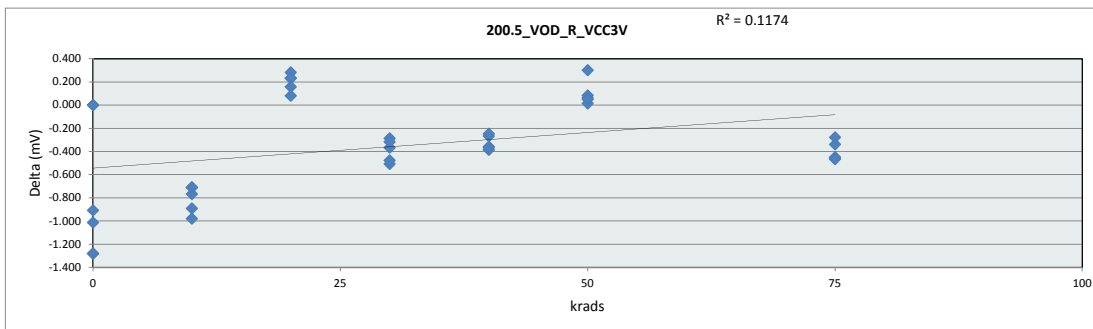
krads	0	10	20	30	40	50	75
LL	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Min	2.130	2.134	2.139	2.140	2.141	2.144	2.132
Average	2.134	2.136	2.142	2.142	2.143	2.146	2.137
Max	2.139	2.140	2.144	2.145	2.145	2.150	2.141
UL	3.500	3.500	3.500	3.500	3.500	3.500	3.500



TID 75k LDR Report HVD233 Boac Teos

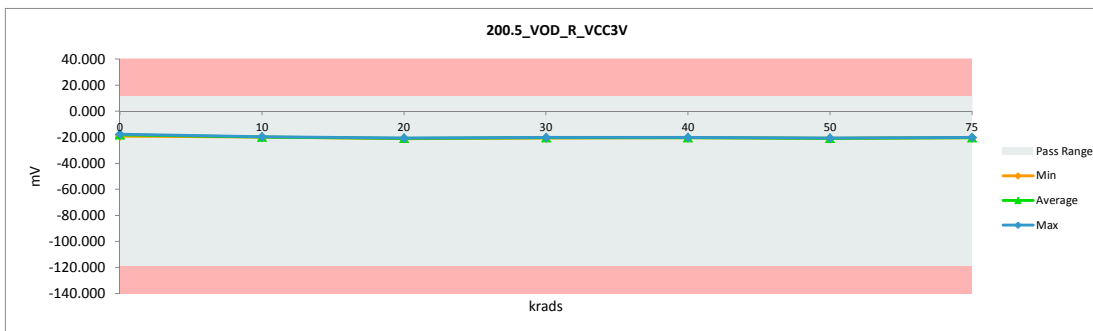
200.5_VOD_R_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	10.92	10.92
Min Limit	-119	-119

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-19.004	-19.004	0.000
10	27_Unbias	-20.820	-19.929	-0.891
10	28_Unbias	-20.643	-19.930	-0.713
10	29_Unbias	-20.568	-19.587	-0.981
10	30_Unbias	-20.454	-19.687	-0.767
10	31_Unbias	-20.666	-19.957	-0.709
0	2_corr	-19.004	-19.004	0.000
20	32_Unbias	-20.692	-20.973	0.281
20	33_Unbias	-20.468	-20.699	0.231
20	34_Unbias	-20.845	-20.924	0.079
20	35_Unbias	-20.507	-20.737	0.230
20	36_Unbias	-20.619	-20.777	0.158
0	2	-19.004	-17.990	-1.014
30	37_Unbias	-20.581	-20.294	-0.287
30	38_Unbias	-20.818	-20.450	-0.368
30	39_Unbias	-20.600	-20.093	-0.507
30	40_Unbias	-20.602	-20.125	-0.477
30	41_Unbias	-20.828	-20.511	-0.317
0	2_corr	-19.004	-18.096	-0.908
40	42_Unbias	-20.503	-20.235	-0.268
40	43_Unbias	-20.669	-20.419	-0.250
40	44_Unbias	-20.552	-20.193	-0.359
40	45_Unbias	-20.852	-20.464	-0.388
40	46_Unbias	-20.533	-20.167	-0.366
0	2	-19.004	-17.724	-1.280
50	47_Unbias	-20.691	-20.752	0.061
50	48_Unbias	-20.480	-20.562	0.082
50	49_Unbias	-20.511	-20.810	0.299
50	50_Unbias	-20.823	-20.836	0.013
50	51_Unbias	-20.797	-20.847	0.050
0	2	-19.004	-17.724	-1.280
75	47_Unbias	-20.691	-20.240	-0.451
75	48_Unbias	-20.480	-20.140	-0.340
75	49_Unbias	-20.511	-20.231	-0.280
75	50_Unbias	-20.823	-20.358	-0.465
75	51_Unbias	-20.797	-20.330	-0.467
	Max	-19.004	-17.724	0.299
	Average	-20.374	-20.022	-0.351
	Min	-20.852	-20.973	-1.280
	Std Dev	0.633	0.896	0.432



200.5_VOD_R_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	10.92	mV
Min Limit	-119	mV

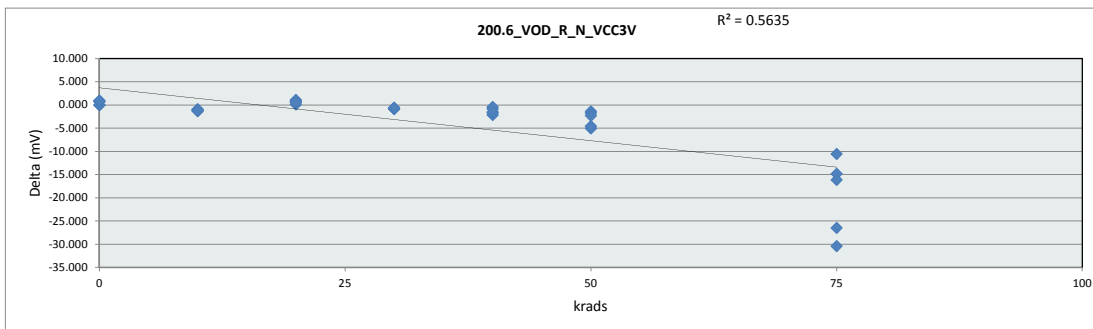
krads	0	10	20	30	40	50	75
LL	-119.000	-119.000	-119.000	-119.000	-119.000	-119.000	-119.000
Min	-19.004	-19.957	-20.973	-20.511	-20.464	-20.847	-20.358
Average	-18.257	-19.818	-20.822	-20.295	-20.296	-20.761	-20.260
Max	-17.724	-19.587	-20.699	-20.093	-20.167	-20.562	-20.140
UL	10.920	10.920	10.920	10.920	10.920	10.920	10.920



TID 75k LDR Report
HVD233 Boac Teos

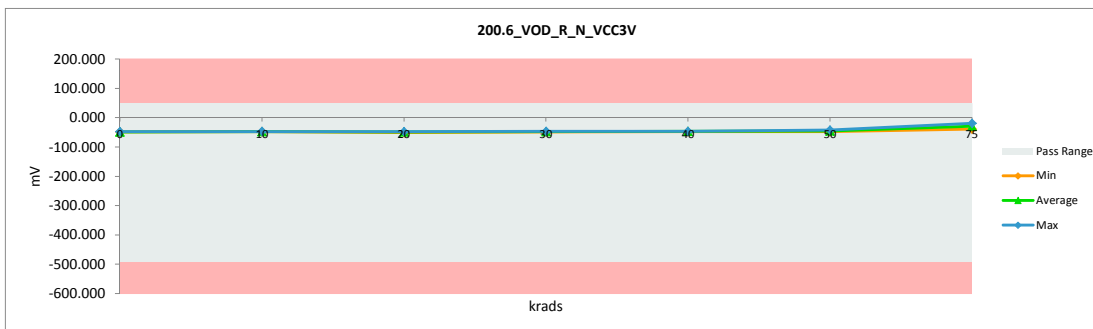
200.6_VOD_R_N_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	49	49
Min Limit	-490	-490

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-47.875	-47.875	0.000
10	27_Unbias	-48.880	-47.540	-1.340
10	28_Unbias	-48.317	-47.426	-0.891
10	29_Unbias	-48.058	-47.005	-1.053
10	30_Unbias	-49.075	-47.814	-1.261
10	31_Unbias	-48.880	-47.796	-1.084
0	2_corr	-47.875	-47.875	0.000
20	32_Unbias	-48.642	-49.433	0.791
20	33_Unbias	-49.256	-50.350	1.094
20	34_Unbias	-47.620	-48.310	0.690
20	35_Unbias	-49.043	-49.199	0.156
20	36_Unbias	-47.271	-47.822	0.551
0	2	-47.875	-48.708	0.833
30	37_Unbias	-48.520	-47.801	-0.719
30	38_Unbias	-47.196	-46.380	-0.816
30	39_Unbias	-49.350	-48.557	-0.793
30	40_Unbias	-48.390	-47.569	-0.821
30	41_Unbias	-46.792	-46.225	-0.567
0	2_corr	-47.875	-48.837	0.962
40	42_Unbias	-48.837	-47.180	-1.657
40	43_Unbias	-48.383	-46.258	-2.125
40	44_Unbias	-47.688	-46.845	-0.843
40	45_Unbias	-46.572	-46.180	-0.392
40	46_Unbias	-48.536	-47.032	-1.504
0	2	-47.875	-48.610	0.735
50	47_Unbias	-49.185	-47.793	-1.392
50	48_Unbias	-46.929	-41.896	-5.033
50	49_Unbias	-49.752	-45.213	-4.539
50	50_Unbias	-46.871	-45.136	-1.735
50	51_Unbias	-48.502	-46.227	-2.275
0	2	-47.875	-48.610	0.735
75	47_Unbias	-49.185	-38.647	-10.538
75	48_Unbias	-46.929	-20.468	-26.461
75	49_Unbias	-49.752	-19.305	-30.447
75	50_Unbias	-46.871	-32.029	-14.842
75	51_Unbias	-48.502	-32.354	-16.148
	Max	-46.572	-19.305	1.094
	Average	-48.195	-44.786	-3.409
	Min	-49.752	-50.350	-30.447
	Std Dev	0.882	7.332	7.333



200.6_VOD_R_N_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	49 mV	
Min Limit	-490 mV	

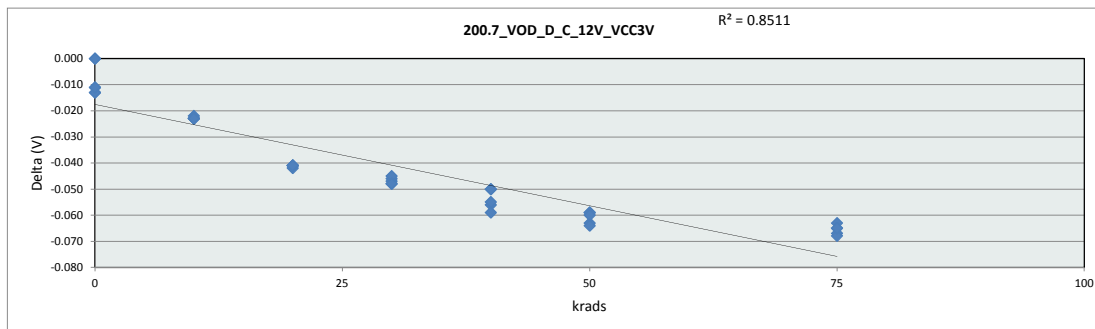
	0	10	20	30	40	50	75
LL	-490.000	-490.000	-490.000	-490.000	-490.000	-490.000	-490.000
Min	-48.837	-47.814	-50.350	-48.557	-47.180	-47.793	-38.647
Average	-48.419	-47.516	-49.023	-47.306	-46.699	-45.253	-28.561
Max	-47.875	-47.005	-47.822	-46.225	-46.180	-41.896	-19.305
UL	49.000	49.000	49.000	49.000	49.000	49.000	49.000



TID 75k LDR Report HVD233 Boac Teos

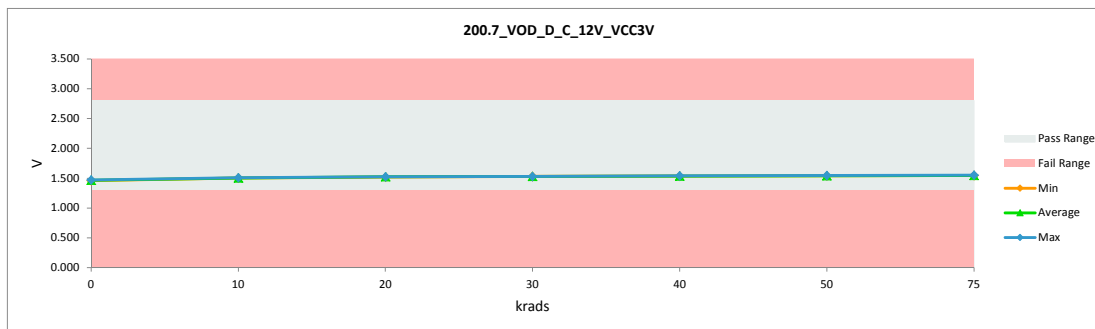
200.7_VOD_D_C_12V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.3	1.3

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.460	1.460	0.000
10	27_Unbias	1.481	1.504	-0.023
10	28_Unbias	1.483	1.506	-0.023
10	29_Unbias	1.484	1.506	-0.022
10	30_Unbias	1.484	1.507	-0.023
10	31_Unbias	1.483	1.506	-0.023
0	2_corr	1.460	1.460	0.000
20	32_Unbias	1.480	1.522	-0.042
20	33_Unbias	1.484	1.525	-0.041
20	34_Unbias	1.481	1.522	-0.041
20	35_Unbias	1.481	1.522	-0.041
20	36_Unbias	1.482	1.523	-0.041
0	2	1.460	1.473	-0.013
30	37_Unbias	1.482	1.529	-0.047
30	38_Unbias	1.482	1.528	-0.046
30	39_Unbias	1.484	1.529	-0.045
30	40_Unbias	1.482	1.530	-0.048
30	41_Unbias	1.481	1.529	-0.048
0	2_corr	1.460	1.473	-0.013
40	42_Unbias	1.483	1.539	-0.056
40	43_Unbias	1.480	1.539	-0.059
40	44_Unbias	1.480	1.535	-0.055
40	45_Unbias	1.484	1.534	-0.050
40	46_Unbias	1.484	1.534	-0.050
0	2	1.460	1.471	-0.011
50	47_Unbias	1.481	1.540	-0.059
50	48_Unbias	1.484	1.547	-0.063
50	49_Unbias	1.483	1.547	-0.064
50	50_Unbias	1.482	1.541	-0.059
50	51_Unbias	1.482	1.542	-0.060
0	2	1.460	1.471	-0.011
75	47_Unbias	1.481	1.544	-0.063
75	48_Unbias	1.484	1.551	-0.067
75	49_Unbias	1.483	1.551	-0.068
75	50_Unbias	1.482	1.547	-0.065
75	51_Unbias	1.482	1.547	-0.065
	Max	1.484	1.551	0.000
	Average	1.479	1.520	-0.042
	Min	1.460	1.460	-0.068
	Std Dev	0.009	0.027	0.020



200.7_VOD_D_C_12V_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	2.8	V
Min Limit	1.3	V

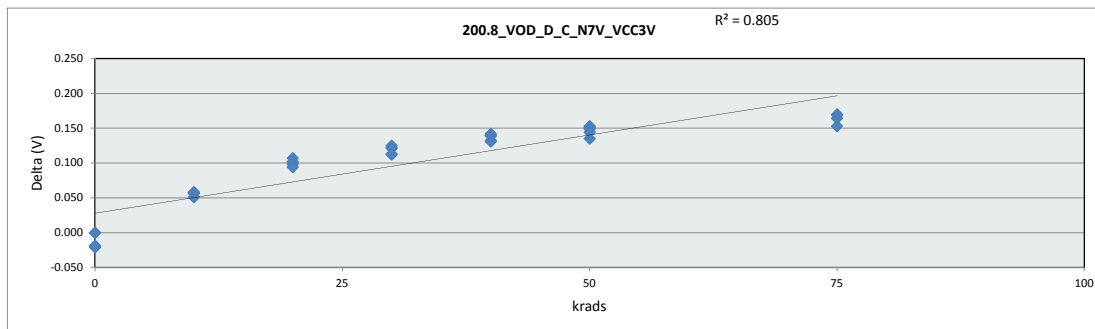
	0	10	20	30	40	50	75
LL	1.300	1.300	1.300	1.300	1.300	1.300	1.300
Min	1.460	1.504	1.522	1.528	1.534	1.540	1.544
Average	1.468	1.506	1.523	1.529	1.536	1.543	1.548
Max	1.473	1.507	1.525	1.530	1.539	1.547	1.551
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800



TID 75k LDR Report
HVD233 Boac Teos

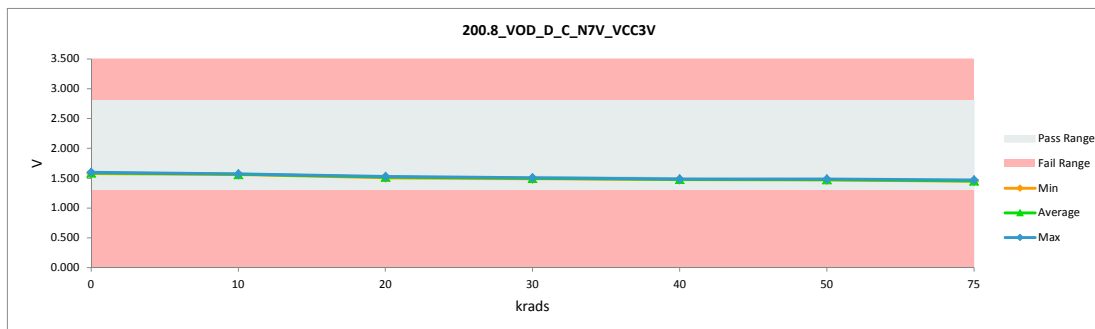
200.8_VOD_D_C_N7V_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.8	2.8
Min Limit	1.3	1.3

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.578	1.578	0.000
10	27_Unbias	1.619	1.561	0.058
10	28_Unbias	1.624	1.573	0.051
10	29_Unbias	1.622	1.565	0.057
10	30_Unbias	1.622	1.565	0.057
10	31_Unbias	1.619	1.562	0.057
0	2_corr	1.578	1.578	0.000
20	32_Unbias	1.621	1.523	0.098
20	33_Unbias	1.624	1.524	0.100
20	34_Unbias	1.617	1.515	0.102
20	35_Unbias	1.617	1.510	0.107
20	36_Unbias	1.624	1.530	0.094
0	2	1.578	1.599	-0.021
30	37_Unbias	1.618	1.496	0.122
30	38_Unbias	1.620	1.508	0.112
30	39_Unbias	1.615	1.490	0.125
30	40_Unbias	1.620	1.499	0.121
30	41_Unbias	1.620	1.507	0.113
0	2_corr	1.578	1.599	-0.021
40	42_Unbias	1.623	1.484	0.139
40	43_Unbias	1.620	1.478	0.142
40	44_Unbias	1.621	1.489	0.132
40	45_Unbias	1.615	1.476	0.139
40	46_Unbias	1.617	1.486	0.131
0	2	1.578	1.597	-0.019
50	47_Unbias	1.623	1.488	0.135
50	48_Unbias	1.622	1.469	0.153
50	49_Unbias	1.623	1.472	0.151
50	50_Unbias	1.619	1.470	0.149
50	51_Unbias	1.620	1.476	0.144
0	2	1.578	1.597	-0.019
75	47_Unbias	1.623	1.470	0.153
75	48_Unbias	1.622	1.453	0.169
75	49_Unbias	1.623	1.454	0.169
75	50_Unbias	1.619	1.449	0.170
75	51_Unbias	1.620	1.456	0.164
	Max	1.624	1.599	0.170
	Average	1.613	1.515	0.098
	Min	1.578	1.449	-0.021
	Std Dev	0.016	0.048	0.061



200.8_VOD_D_C_N7V_VCC3V	
Test Site	Dallas, Tx
Tester	ETS
Test Number	EF580300
Max Limit	2.8 V
Min Limit	1.3 V

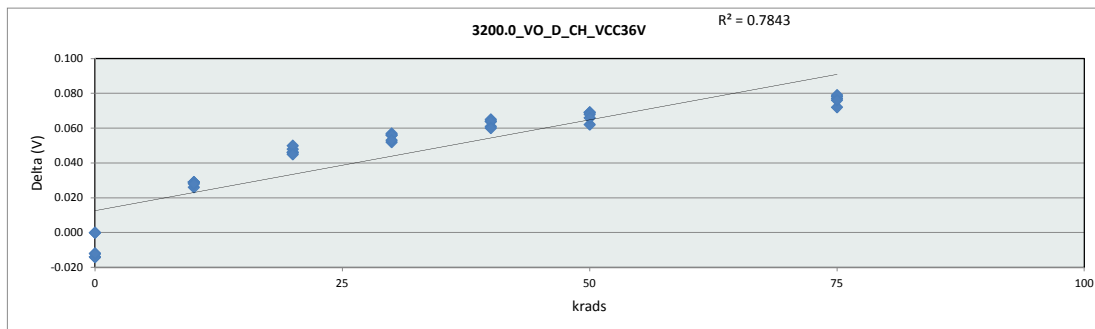
	0	10	20	30	40	50	75
LL	1.300	1.300	1.300	1.300	1.300	1.300	1.300
Min	1.578	1.561	1.510	1.490	1.476	1.469	1.449
Average	1.591	1.565	1.520	1.500	1.483	1.475	1.456
Max	1.599	1.573	1.530	1.508	1.489	1.488	1.470
UL	2.800	2.800	2.800	2.800	2.800	2.800	2.800



TID 75k LDR Report
HVD233 Boac Teos

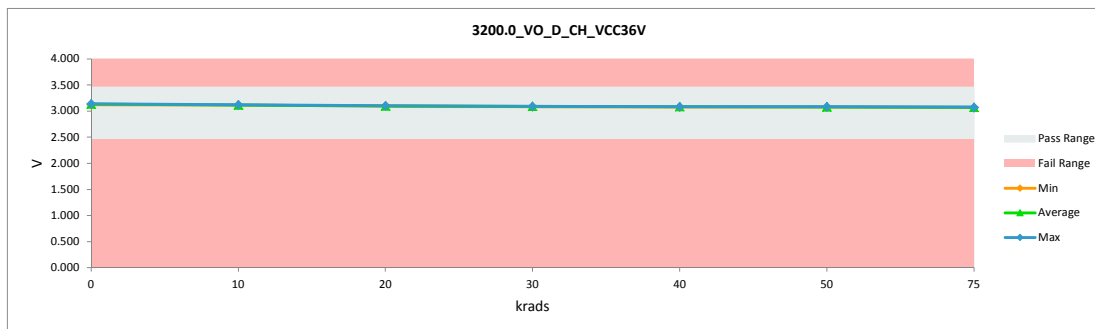
3200.0_VO_D_CH_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.46	3.46
Min Limit	2.47	2.47

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	3.124	3.124	0.000
10	27_Unbias	3.145	3.116	0.029
10	28_Unbias	3.148	3.122	0.026
10	29_Unbias	3.147	3.118	0.029
10	30_Unbias	3.148	3.119	0.029
10	31_Unbias	3.145	3.117	0.028
0	2_corr	3.124	3.124	0.000
20	32_Unbias	3.146	3.100	0.046
20	33_Unbias	3.148	3.102	0.046
20	34_Unbias	3.144	3.096	0.048
20	35_Unbias	3.145	3.095	0.050
20	36_Unbias	3.149	3.104	0.045
0	2	3.124	3.138	-0.014
30	37_Unbias	3.145	3.089	0.056
30	38_Unbias	3.145	3.093	0.052
30	39_Unbias	3.143	3.086	0.057
30	40_Unbias	3.146	3.090	0.056
30	41_Unbias	3.146	3.093	0.053
0	2_corr	3.124	3.138	-0.014
40	42_Unbias	3.148	3.084	0.064
40	43_Unbias	3.146	3.081	0.065
40	44_Unbias	3.147	3.086	0.061
40	45_Unbias	3.143	3.079	0.064
40	46_Unbias	3.144	3.084	0.060
0	2	3.124	3.136	-0.012
50	47_Unbias	3.148	3.086	0.062
50	48_Unbias	3.147	3.078	0.069
50	49_Unbias	3.148	3.079	0.069
50	50_Unbias	3.146	3.078	0.068
50	51_Unbias	3.146	3.080	0.066
0	2	3.124	3.136	-0.012
75	47_Unbias	3.148	3.076	0.072
75	48_Unbias	3.147	3.070	0.077
75	49_Unbias	3.148	3.070	0.078
75	50_Unbias	3.146	3.067	0.079
75	51_Unbias	3.146	3.070	0.076
	Max	3.149	3.138	0.079
	Average	3.143	3.097	0.045
	Min	3.124	3.067	-0.014
	Std Dev	0.009	0.022	0.029



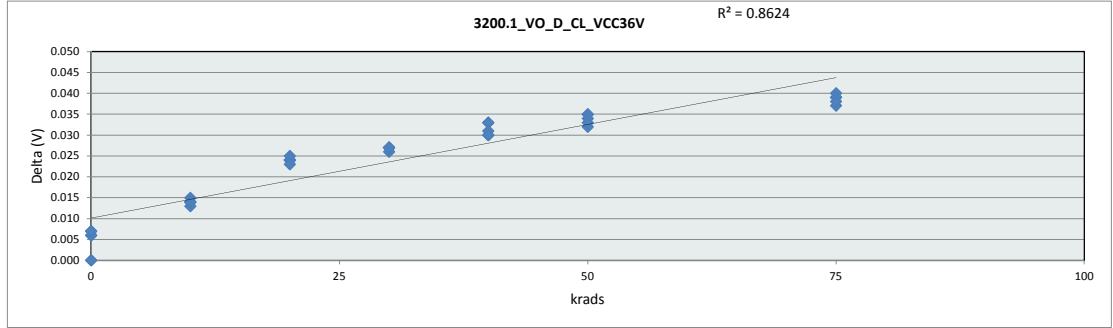
3200.0_VO_D_CH_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3.46	V
Min Limit	2.47	V

	0	10	20	30	40	50	75
LL	2.470	2.470	2.470	2.470	2.470	2.470	2.470
Min	3.124	3.116	3.095	3.086	3.079	3.078	3.067
Average	3.133	3.118	3.099	3.090	3.083	3.080	3.071
Max	3.138	3.122	3.104	3.093	3.086	3.086	3.076
UL	3.460	3.460	3.460	3.460	3.460	3.460	3.460

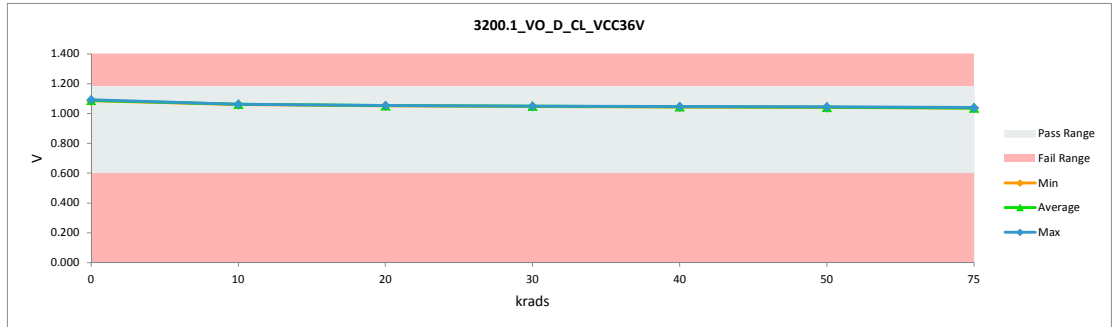


TID 75k LDR Report
HVD233 Boac Teos

3200.1_VO_D_CL_VCC36V				
Test Site	Dallas, Tx	Dallas, Tx		
Tester	ETS	ETS		
Test Number	EF580300	EF580300		
Unit	V	V		
Max Limit	1.18	1.18		
Min Limit	0.6	0.6		
krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.092	1.092	0.000
10	27_Unbias	1.077	1.063	0.014
10	28_Unbias	1.076	1.063	0.013
10	29_Unbias	1.076	1.061	0.015
10	30_Unbias	1.075	1.061	0.014
10	31_Unbias	1.076	1.062	0.014
0	2_corr	1.092	1.092	0.000
20	32_Unbias	1.078	1.054	0.024
20	33_Unbias	1.076	1.052	0.024
20	34_Unbias	1.077	1.053	0.024
20	35_Unbias	1.077	1.052	0.025
20	36_Unbias	1.077	1.054	0.023
0	2	1.092	1.086	0.006
30	37_Unbias	1.076	1.049	0.027
30	38_Unbias	1.076	1.050	0.026
30	39_Unbias	1.075	1.048	0.027
30	40_Unbias	1.076	1.049	0.027
30	41_Unbias	1.077	1.050	0.027
0	2_corr	1.092	1.086	0.006
40	42_Unbias	1.077	1.044	0.033
40	43_Unbias	1.077	1.044	0.033
40	44_Unbias	1.078	1.047	0.031
40	45_Unbias	1.075	1.045	0.030
40	46_Unbias	1.075	1.045	0.030
0	2	1.092	1.085	0.007
50	47_Unbias	1.077	1.045	0.032
50	48_Unbias	1.075	1.040	0.035
50	49_Unbias	1.076	1.041	0.035
50	50_Unbias	1.077	1.043	0.034
50	51_Unbias	1.076	1.043	0.033
0	2	1.092	1.085	0.007
75	47_Unbias	1.077	1.040	0.037
75	48_Unbias	1.075	1.036	0.039
75	49_Unbias	1.076	1.036	0.040
75	50_Unbias	1.077	1.038	0.039
75	51_Unbias	1.076	1.038	0.038
	Max	1.092	1.092	0.040
	Average	1.079	1.055	0.024
	Min	1.075	1.036	0.000
	Std Dev	0.006	0.017	0.012



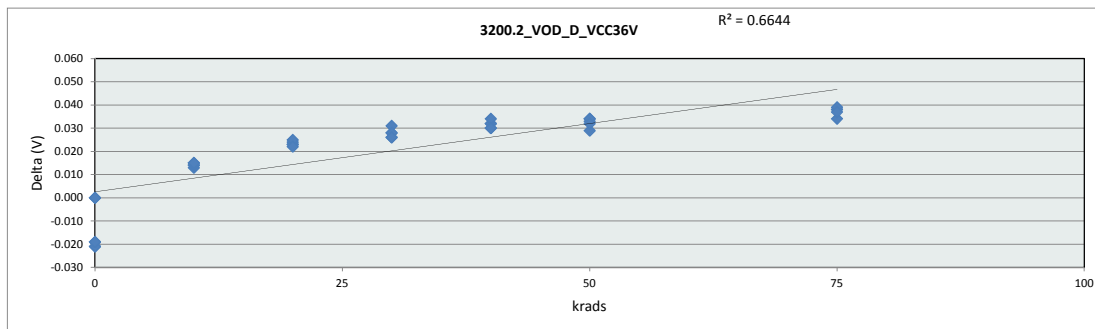
3200.1_VO_D_CL_VCC36V							
Test Site	Dallas, Tx						
Tester	ETS						
Test Number	EF580300						
Max Limit	1.18	V					
Min Limit	0.6	V					
krads	0	10	20	30	40	50	75
LL	0.600	0.600	0.600	0.600	0.600	0.600	0.600
Min	1.085	1.061	1.052	1.048	1.044	1.040	1.036
Average	1.088	1.062	1.053	1.049	1.045	1.042	1.038
Max	1.092	1.063	1.054	1.050	1.047	1.045	1.040
UL	1.180	1.180	1.180	1.180	1.180	1.180	1.180



TID 75k LDR Report HVD233 Boac Teos

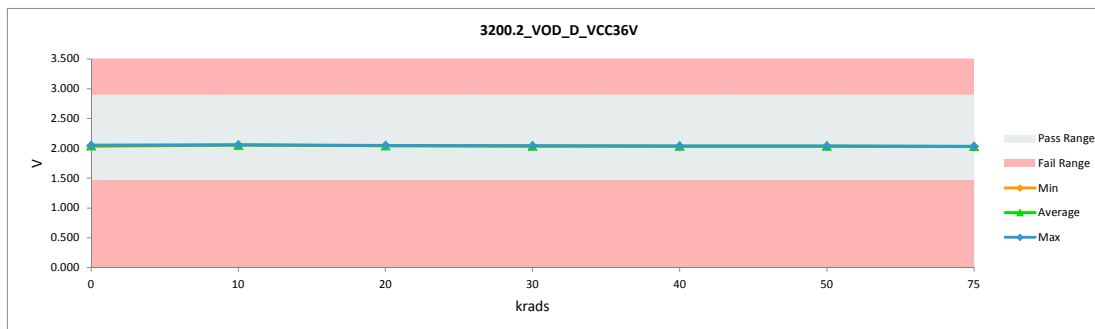
3200.2_VOD_D_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.89	2.89
Min Limit	1.475	1.475

kkrads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	2.032	2.032	0.000
10	27_Unbias	2.068	2.053	0.015
10	28_Unbias	2.072	2.059	0.013
10	29_Unbias	2.071	2.057	0.014
10	30_Unbias	2.072	2.058	0.014
10	31_Unbias	2.070	2.055	0.015
0	2_corr	2.032	2.032	0.000
20	32_Unbias	2.069	2.046	0.023
20	33_Unbias	2.073	2.050	0.023
20	34_Unbias	2.067	2.043	0.024
20	35_Unbias	2.068	2.043	0.025
20	36_Unbias	2.072	2.050	0.022
0	2	2.032	2.053	-0.021
30	37_Unbias	2.068	2.040	0.028
30	38_Unbias	2.069	2.043	0.026
30	39_Unbias	2.069	2.038	0.031
30	40_Unbias	2.069	2.041	0.028
30	41_Unbias	2.069	2.043	0.026
0	2_corr	2.032	2.053	-0.021
40	42_Unbias	2.072	2.040	0.032
40	43_Unbias	2.069	2.037	0.032
40	44_Unbias	2.069	2.039	0.030
40	45_Unbias	2.068	2.034	0.034
40	46_Unbias	2.069	2.039	0.030
0	2	2.032	2.051	-0.019
50	47_Unbias	2.070	2.041	0.029
50	48_Unbias	2.072	2.038	0.034
50	49_Unbias	2.072	2.039	0.033
50	50_Unbias	2.069	2.035	0.034
50	51_Unbias	2.069	2.037	0.032
0	2	2.032	2.051	-0.019
75	47_Unbias	2.070	2.036	0.034
75	48_Unbias	2.072	2.034	0.038
75	49_Unbias	2.072	2.034	0.038
75	50_Unbias	2.069	2.030	0.039
75	51_Unbias	2.069	2.032	0.037
	Max	2.073	2.059	0.039
	Average	2.064	2.043	0.021
	Min	2.032	2.030	-0.021
	Std Dev	0.014	0.008	0.017



3200.2_VOD_D_VCC36V	
Test Site	Dallas, Tx
Tester	ETS
Test Number	EF580300
Max Limit	2.89 V
Min Limit	1.475 V

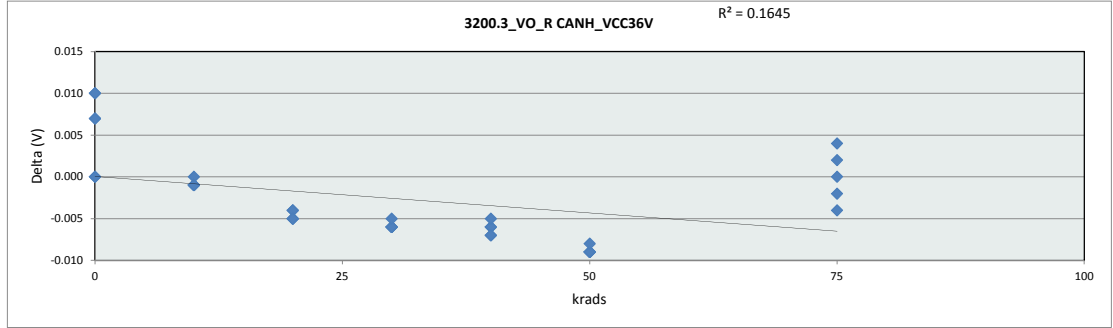
	0	10	20	30	40	50	75
LL	1.475	1.475	1.475	1.475	1.475	1.475	1.475
Min	2.032	2.053	2.043	2.038	2.034	2.035	2.030
Average	2.045	2.056	2.046	2.041	2.038	2.038	2.033
Max	2.053	2.059	2.050	2.043	2.040	2.041	2.036
UL	2.890	2.890	2.890	2.890	2.890	2.890	2.890



TID 75k LDR Report
HVD233 Boac Teos

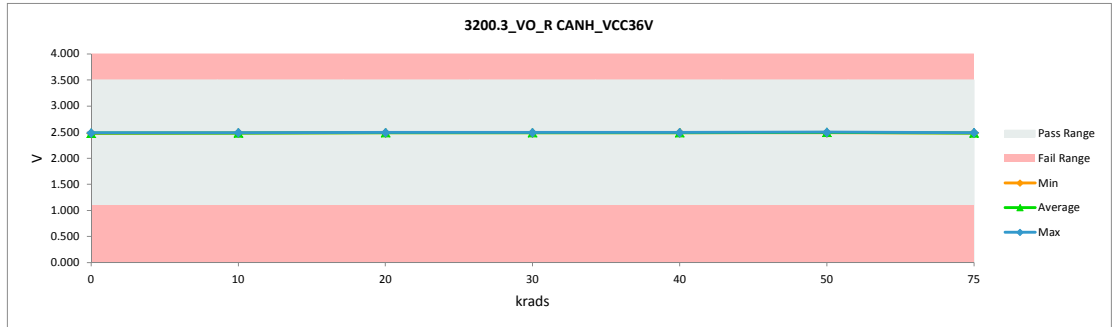
3200.3_VO_R CANH_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.5	3.5
Min Limit	1.1	1.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	2.486	2.486	0.000
10	27_Unbias	2.481	2.482	-0.001
10	28_Unbias	2.481	2.482	-0.001
10	29_Unbias	2.487	2.487	0.000
10	30_Unbias	2.489	2.490	-0.001
10	31_Unbias	2.483	2.484	-0.001
0	2_corr	2.486	2.486	0.000
20	32_Unbias	2.484	2.488	-0.004
20	33_Unbias	2.487	2.492	-0.005
20	34_Unbias	2.482	2.486	-0.004
20	35_Unbias	2.486	2.491	-0.005
20	36_Unbias	2.488	2.493	-0.005
0	2	2.486	2.479	0.007
30	37_Unbias	2.485	2.491	-0.006
30	38_Unbias	2.483	2.489	-0.006
30	39_Unbias	2.481	2.487	-0.006
30	40_Unbias	2.487	2.493	-0.006
30	41_Unbias	2.484	2.489	-0.005
0	2_corr	2.486	2.479	0.007
40	42_Unbias	2.487	2.494	-0.007
40	43_Unbias	2.486	2.492	-0.006
40	44_Unbias	2.487	2.493	-0.006
40	45_Unbias	2.484	2.489	-0.005
40	46_Unbias	2.482	2.489	-0.007
0	2	2.486	2.476	0.010
50	47_Unbias	2.486	2.495	-0.009
50	48_Unbias	2.491	2.500	-0.009
50	49_Unbias	2.486	2.495	-0.009
50	50_Unbias	2.483	2.492	-0.009
50	51_Unbias	2.483	2.491	-0.008
0	2	2.486	2.476	0.010
75	47_Unbias	2.486	2.490	-0.004
75	48_Unbias	2.491	2.489	0.002
75	49_Unbias	2.486	2.482	0.004
75	50_Unbias	2.483	2.485	-0.002
75	51_Unbias	2.483	2.483	0.000
	Max	2.491	2.500	0.010
	Average	2.485	2.488	-0.003
	Min	2.481	2.476	-0.009
	Std Dev	0.003	0.006	0.005



3200.3_VO_R CANH_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3.5	V
Min Limit	1.1	V

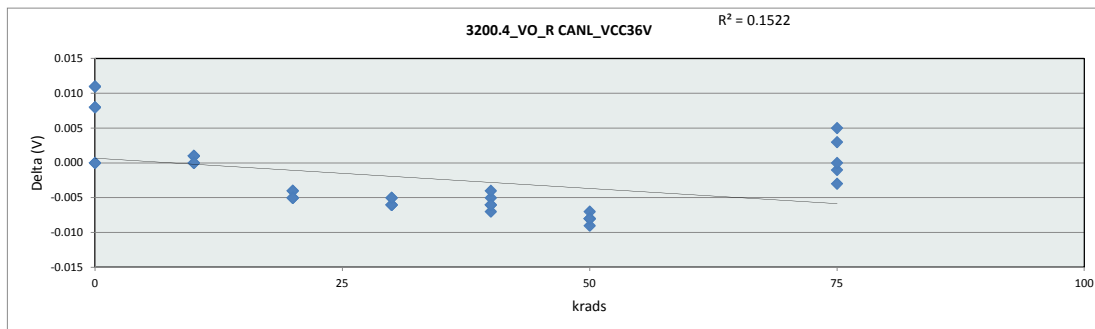
	0	10	20	30	40	50	75
LL	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Min	2.476	2.482	2.486	2.487	2.489	2.491	2.482
Average	2.480	2.485	2.490	2.490	2.491	2.495	2.486
Max	2.486	2.490	2.493	2.493	2.494	2.500	2.490
UL	3.500	3.500	3.500	3.500	3.500	3.500	3.500



TID 75k LDR Report HVD233 Boac Teos

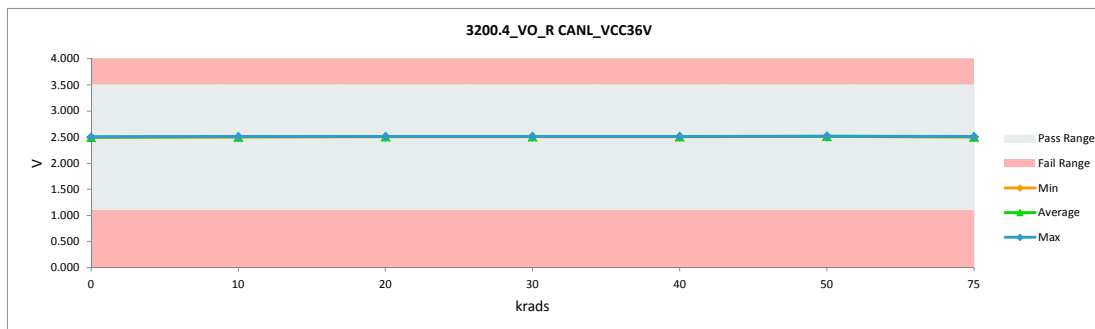
3200.4_VO_R_CANL_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.5	3.5
Min Limit	1.1	1.1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	2.505	2.505	0.000
10	27_Unbias	2.503	2.502	0.001
10	28_Unbias	2.503	2.502	0.001
10	29_Unbias	2.508	2.507	0.001
10	30_Unbias	2.510	2.510	0.000
10	31_Unbias	2.504	2.504	0.000
0	2_corr	2.505	2.505	0.000
20	32_Unbias	2.505	2.509	-0.004
20	33_Unbias	2.508	2.513	-0.005
20	34_Unbias	2.503	2.507	-0.004
20	35_Unbias	2.507	2.512	-0.005
20	36_Unbias	2.509	2.514	-0.005
0	2	2.505	2.497	0.008
30	37_Unbias	2.506	2.512	-0.006
30	38_Unbias	2.504	2.510	-0.006
30	39_Unbias	2.502	2.507	-0.005
30	40_Unbias	2.508	2.514	-0.006
30	41_Unbias	2.505	2.510	-0.005
0	2_corr	2.505	2.497	0.008
40	42_Unbias	2.508	2.515	-0.007
40	43_Unbias	2.507	2.513	-0.006
40	44_Unbias	2.508	2.513	-0.005
40	45_Unbias	2.505	2.509	-0.004
40	46_Unbias	2.503	2.509	-0.006
0	2	2.505	2.494	0.011
50	47_Unbias	2.508	2.515	-0.007
50	48_Unbias	2.512	2.520	-0.008
50	49_Unbias	2.507	2.515	-0.008
50	50_Unbias	2.504	2.513	-0.009
50	51_Unbias	2.504	2.512	-0.008
0	2	2.505	2.494	0.011
75	47_Unbias	2.508	2.511	-0.003
75	48_Unbias	2.512	2.509	0.003
75	49_Unbias	2.507	2.502	0.005
75	50_Unbias	2.504	2.505	-0.001
75	51_Unbias	2.504	2.504	0.000
	Max	2.512	2.520	0.011
	Average	2.506	2.508	-0.002
	Min	2.502	2.494	-0.009
	Std Dev	0.002	0.006	0.005



3200.4_VO_R_CANL_VCC36V	
Test Site	Dallas, Tx
Tester	ETS
Test Number	EF580300
Max Limit	3.5 V
Min Limit	1.1 V

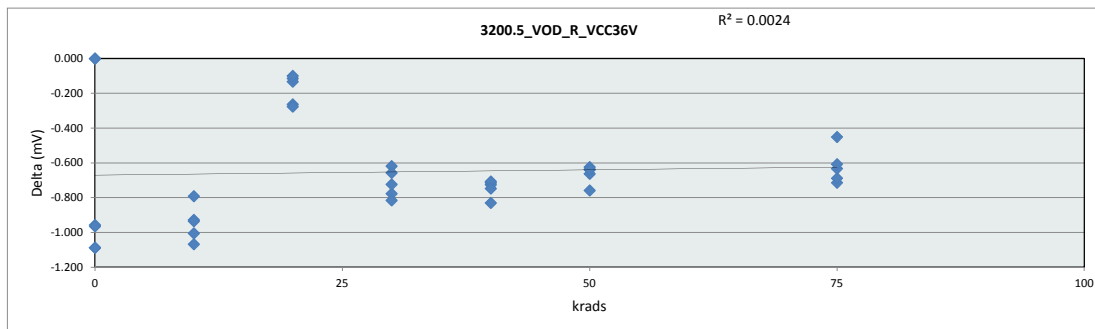
	0	10	20	30	40	50	75
LL	1.100	1.100	1.100	1.100	1.100	1.100	1.100
Min	2.494	2.502	2.507	2.507	2.509	2.512	2.502
Average	2.499	2.505	2.511	2.511	2.512	2.515	2.506
Max	2.505	2.510	2.514	2.514	2.515	2.520	2.511
UL	3.500	3.500	3.500	3.500	3.500	3.500	3.500



TID 75k LDR Report
HVD233 Boac Teos

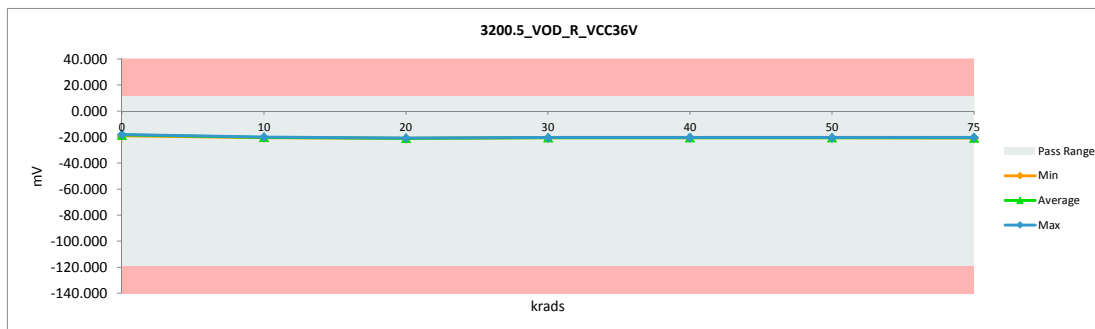
3200.5_VOD_R_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	10.92	10.92
Min Limit	-119	-119

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-19.057	-19.057	0.000
10	27_Unbias	-21.258	-20.253	-1.005
10	28_Unbias	-21.198	-20.406	-0.792
10	29_Unbias	-21.005	-19.938	-1.067
10	30_Unbias	-20.894	-19.967	-0.927
10	31_Unbias	-21.286	-20.352	-0.934
0	2_corr	-19.057	-19.057	0.000
20	32_Unbias	-21.142	-21.010	-0.132
20	33_Unbias	-20.988	-20.725	-0.263
20	34_Unbias	-21.299	-21.023	-0.276
20	35_Unbias	-21.016	-20.902	-0.114
20	36_Unbias	-21.065	-20.966	-0.099
0	2	-19.057	-18.100	-0.957
30	37_Unbias	-21.187	-20.411	-0.776
30	38_Unbias	-21.306	-20.583	-0.723
30	39_Unbias	-20.920	-20.302	-0.618
30	40_Unbias	-21.018	-20.362	-0.656
30	41_Unbias	-21.415	-20.600	-0.815
0	2_corr	-19.057	-18.093	-0.964
40	42_Unbias	-21.080	-20.355	-0.725
40	43_Unbias	-21.234	-20.520	-0.714
40	44_Unbias	-21.061	-20.355	-0.706
40	45_Unbias	-21.283	-20.536	-0.747
40	46_Unbias	-21.028	-20.198	-0.830
0	2	-19.057	-17.970	-1.087
50	47_Unbias	-21.177	-20.554	-0.623
50	48_Unbias	-20.925	-20.262	-0.663
50	49_Unbias	-21.035	-20.397	-0.638
50	50_Unbias	-21.211	-20.574	-0.637
50	51_Unbias	-21.279	-20.521	-0.758
0	2	-19.057	-17.970	-1.087
75	47_Unbias	-21.177	-20.463	-0.714
75	48_Unbias	-20.925	-20.236	-0.689
75	49_Unbias	-21.035	-20.402	-0.633
75	50_Unbias	-21.211	-20.761	-0.450
75	51_Unbias	-21.279	-20.671	-0.608
	Max	-19.057	-17.970	0.000
	Average	-20.786	-20.135	-0.651
	Min	-21.415	-21.023	-1.087
	Std Dev	0.794	0.859	0.303



3200.5_VOD_R_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	10.92	mV
Min Limit	-119	mV

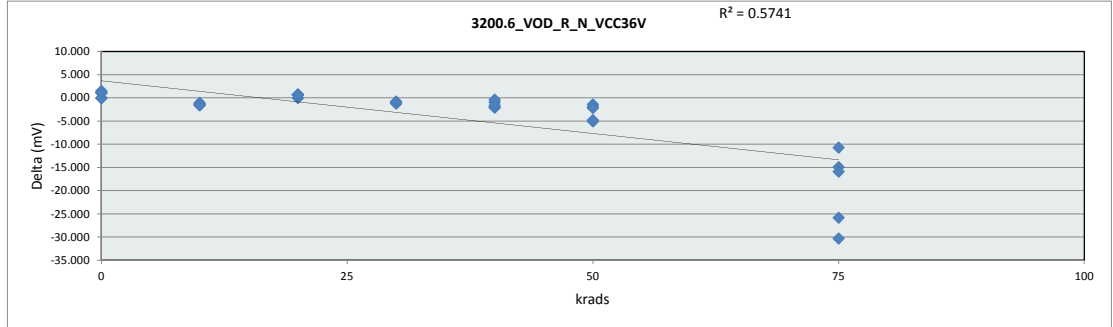
	0	10	20	30	40	50	75
LL	-119.000	-119.000	-119.000	-119.000	-119.000	-119.000	-119.000
Min	-19.057	-20.406	-21.023	-20.600	-20.536	-20.574	-20.761
Average	-18.375	-20.183	-20.925	-20.452	-20.393	-20.462	-20.507
Max	-17.970	-19.938	-20.725	-20.302	-20.198	-20.262	-20.236
UL	10.920	10.920	10.920	10.920	10.920	10.920	10.920



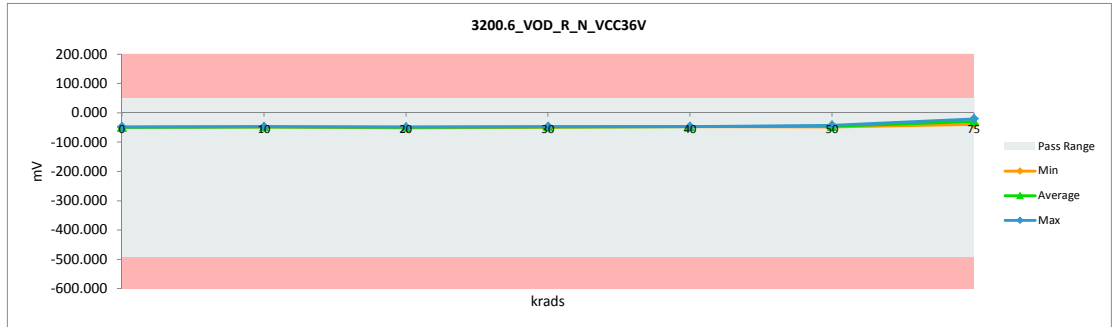
TID 75k LDR Report
HVD233 Boac Teos

3200.6_VOD_R_N_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	49	49
Min Limit	-490	-490

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-48.014	-48.014	0.000
10	27_Unbias	-49.421	-47.967	-1.454
10	28_Unbias	-48.892	-47.855	-1.037
10	29_Unbias	-48.801	-47.332	-1.469
10	30_Unbias	-49.843	-48.621	-1.222
10	31_Unbias	-49.530	-47.901	-1.629
0	2_corr	-48.014	-48.014	0.000
20	32_Unbias	-49.009	-49.694	0.685
20	33_Unbias	-50.196	-50.962	0.766
20	34_Unbias	-48.210	-48.892	0.682
20	35_Unbias	-49.731	-49.687	-0.044
20	36_Unbias	-47.453	-48.164	0.711
0	2	-48.014	-49.210	1.196
30	37_Unbias	-49.540	-48.603	-0.937
30	38_Unbias	-47.881	-46.731	-1.150
30	39_Unbias	-50.373	-49.292	-1.081
30	40_Unbias	-49.212	-48.073	-1.139
30	41_Unbias	-47.480	-46.705	-0.775
0	2_corr	-48.014	-49.519	1.505
40	42_Unbias	-49.351	-47.442	-1.909
40	43_Unbias	-48.956	-46.849	-2.107
40	44_Unbias	-48.220	-47.323	-0.897
40	45_Unbias	-46.937	-46.605	-0.332
40	46_Unbias	-49.152	-47.576	-1.576
0	2	-48.014	-49.121	1.107
50	47_Unbias	-49.938	-48.555	-1.383
50	48_Unbias	-47.682	-42.625	-5.057
50	49_Unbias	-51.001	-46.197	-4.804
50	50_Unbias	-47.356	-45.458	-1.898
50	51_Unbias	-49.090	-46.967	-2.123
0	2	-48.014	-49.121	1.107
75	47_Unbias	-49.938	-39.265	-10.673
75	48_Unbias	-47.682	-21.897	-25.785
75	49_Unbias	-51.001	-20.734	-30.267
75	50_Unbias	-47.356	-32.437	-14.919
75	51_Unbias	-49.090	-33.238	-15.852
	Max	-46.937	-20.734	1.505
	Average	-48.789	-45.351	-3.438
	Min	-51.001	-50.962	-30.267
	Std Dev	1.068	7.133	7.243



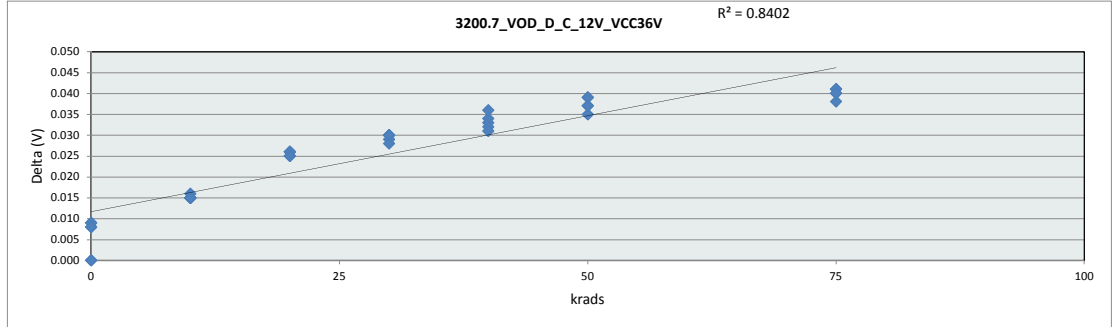
3200.6_VOD_R_N_VCC36V							
Test Site	Dallas, Tx						
Tester	ETS						
Test Number	EF580300						
Max Limit	49 mV						
Min Limit	-490 mV						
krads	0	10	20	30	40	50	75
LL	-490.000	-490.000	-490.000	-490.000	-490.000	-490.000	-490.000
Min	-49.519	-48.621	-50.962	-49.292	-47.576	-48.555	-39.265
Average	-48.833	-47.935	-49.480	-47.881	-47.159	-45.960	-29.514
Max	-48.014	-47.332	-48.164	-46.705	-46.605	-42.625	-20.734
UL	49.000	49.000	49.000	49.000	49.000	49.000	49.000



TID 75k LDR Report
HVD233 Boac Teos

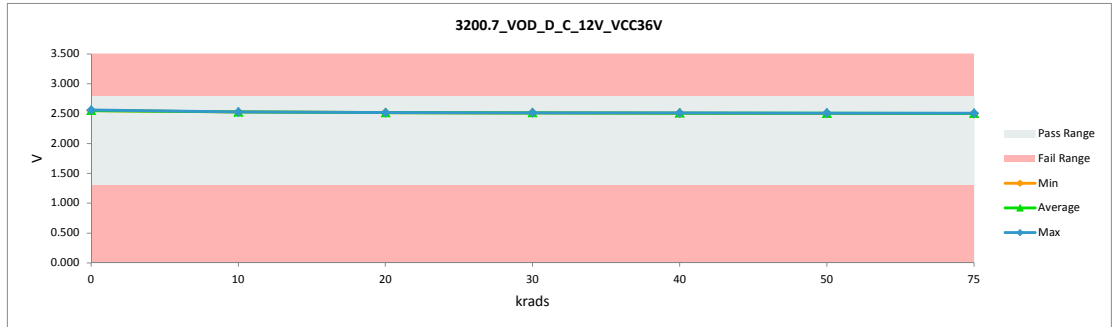
3200.7_VOD_D_C_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.79	2.79
Min Limit	1.3	1.3

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	2.560	2.560	0.000
10	27_Unbias	2.545	2.530	0.015
10	28_Unbias	2.544	2.529	0.015
10	29_Unbias	2.544	2.528	0.016
10	30_Unbias	2.543	2.528	0.015
10	31_Unbias	2.544	2.529	0.015
0	2_corr	2.560	2.560	0.000
20	32_Unbias	2.546	2.520	0.026
20	33_Unbias	2.544	2.518	0.026
20	34_Unbias	2.545	2.520	0.025
20	35_Unbias	2.545	2.519	0.026
20	36_Unbias	2.545	2.520	0.025
0	2	2.560	2.551	0.009
30	37_Unbias	2.545	2.515	0.030
30	38_Unbias	2.545	2.516	0.029
30	39_Unbias	2.543	2.515	0.028
30	40_Unbias	2.545	2.515	0.030
30	41_Unbias	2.546	2.516	0.030
0	2_corr	2.560	2.551	0.009
40	42_Unbias	2.544	2.510	0.034
40	43_Unbias	2.546	2.510	0.036
40	44_Unbias	2.546	2.513	0.033
40	45_Unbias	2.544	2.512	0.032
40	46_Unbias	2.543	2.512	0.031
0	2	2.560	2.552	0.008
50	47_Unbias	2.545	2.510	0.035
50	48_Unbias	2.544	2.505	0.039
50	49_Unbias	2.544	2.505	0.039
50	50_Unbias	2.545	2.508	0.037
50	51_Unbias	2.545	2.508	0.037
0	2	2.560	2.552	0.008
75	47_Unbias	2.545	2.507	0.038
75	48_Unbias	2.544	2.503	0.041
75	49_Unbias	2.544	2.503	0.041
75	50_Unbias	2.545	2.505	0.040
75	51_Unbias	2.545	2.505	0.040
	Max	2.560	2.560	0.041
	Average	2.547	2.521	0.026
	Min	2.543	2.503	0.000
	Std Dev	0.006	0.017	0.012



3200.7_VOD_D_C_12V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	2.79	V
Min Limit	1.3	V

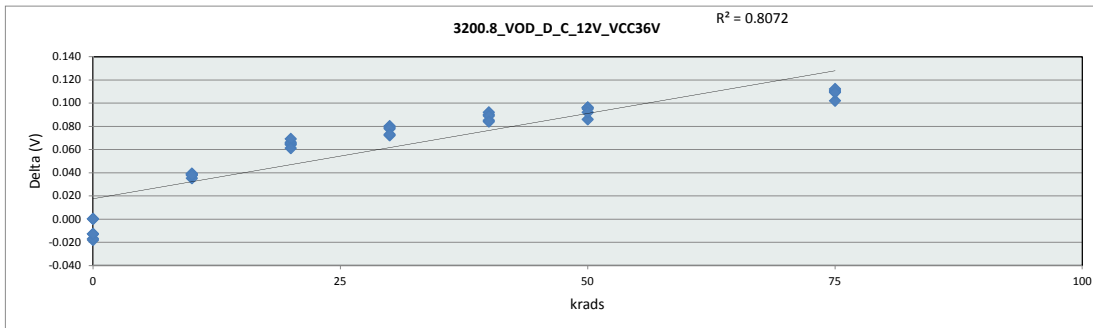
krams	0	10	20	30	40	50	75
LL	1.300	1.300	1.300	1.300	1.300	1.300	1.300
Min	2.551	2.528	2.518	2.515	2.510	2.505	2.503
Average	2.554	2.529	2.519	2.515	2.511	2.507	2.505
Max	2.560	2.530	2.520	2.516	2.513	2.510	2.507
UL	2.790	2.790	2.790	2.790	2.790	2.790	2.790



TID 75k LDR Report
HVD233 Boac Teos

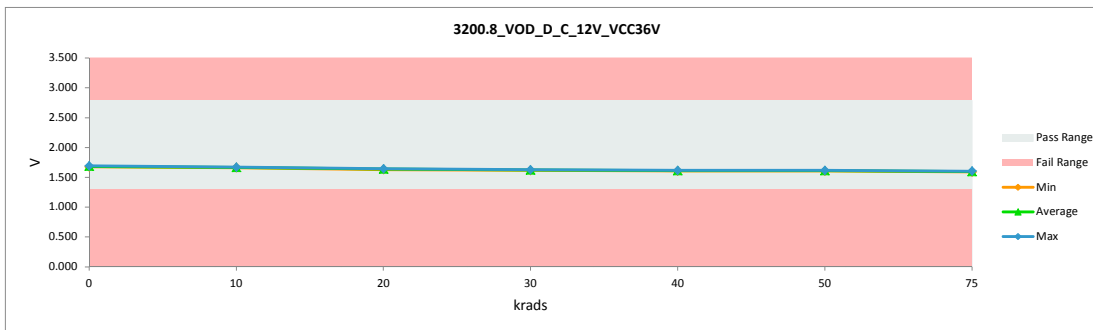
3200.8_VOD_D_C_12V_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	2.79	2.79
Min Limit	1.3	1.3

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.675	1.675	0.000
10	27_Unbias	1.701	1.662	0.039
10	28_Unbias	1.705	1.670	0.035
10	29_Unbias	1.703	1.665	0.038
10	30_Unbias	1.704	1.665	0.039
10	31_Unbias	1.701	1.663	0.038
0	2_corr	1.675	1.675	0.000
20	32_Unbias	1.703	1.638	0.065
20	33_Unbias	1.704	1.640	0.064
20	34_Unbias	1.699	1.633	0.066
20	35_Unbias	1.700	1.631	0.069
20	36_Unbias	1.705	1.644	0.061
0	2	1.675	1.693	-0.018
30	37_Unbias	1.701	1.622	0.079
30	38_Unbias	1.701	1.629	0.072
30	39_Unbias	1.698	1.618	0.080
30	40_Unbias	1.702	1.624	0.078
30	41_Unbias	1.702	1.629	0.073
0	2_corr	1.675	1.692	-0.017
40	42_Unbias	1.705	1.615	0.090
40	43_Unbias	1.702	1.610	0.092
40	44_Unbias	1.703	1.618	0.085
40	45_Unbias	1.697	1.608	0.089
40	46_Unbias	1.699	1.615	0.084
0	2	1.675	1.688	-0.013
50	47_Unbias	1.705	1.619	0.086
50	48_Unbias	1.703	1.607	0.096
50	49_Unbias	1.705	1.609	0.096
50	50_Unbias	1.701	1.606	0.095
50	51_Unbias	1.702	1.610	0.092
0	2	1.675	1.688	-0.013
75	47_Unbias	1.705	1.603	0.102
75	48_Unbias	1.703	1.593	0.110
75	49_Unbias	1.705	1.594	0.111
75	50_Unbias	1.701	1.589	0.112
75	51_Unbias	1.702	1.593	0.109
	Max	1.705	1.693	0.112
	Average	1.698	1.634	0.063
	Min	1.675	1.589	-0.018
	Std Dev	0.010	0.031	0.040



3200.8_VOD_D_C_12V_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	2.79 V	
Min Limit	1.3 V	

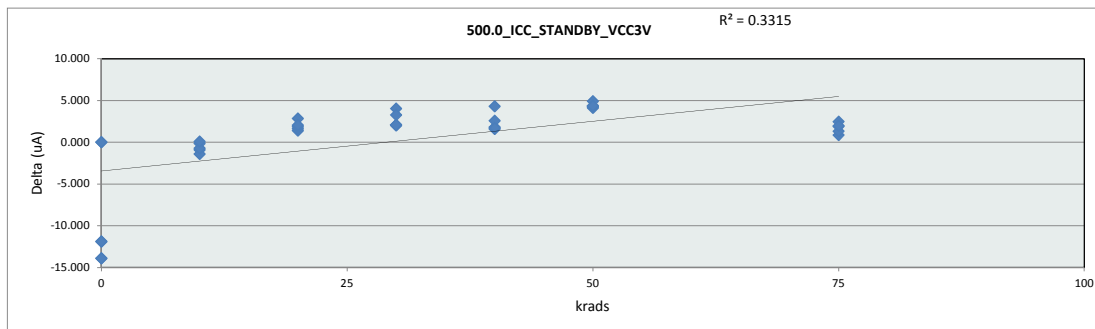
krads	0	10	20	30	40	50	75
LL	1.300	1.300	1.300	1.300	1.300	1.300	1.300
Min	1.675	1.662	1.631	1.618	1.608	1.606	1.589
Average	1.685	1.665	1.637	1.624	1.613	1.610	1.594
Max	1.693	1.670	1.644	1.629	1.618	1.619	1.603
UL	2.790	2.790	2.790	2.790	2.790	2.790	2.790



TID 75k LDR Report HVD233 Boac Teos

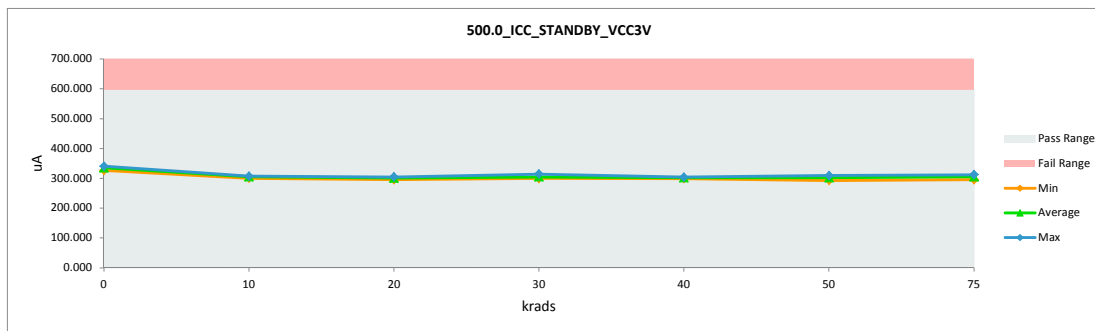
500.0_ICC_STANDBY_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	326.832	326.832	0.000
10	27_Unbias	304.559	305.466	-0.907
10	28_Unbias	304.424	305.864	-1.440
10	29_Unbias	307.434	307.583	-0.149
10	30_Unbias	299.718	300.449	-0.731
10	31_Unbias	305.106	305.031	0.075
0	2_corr	326.832	326.832	0.000
20	32_Unbias	303.904	302.514	1.390
20	33_Unbias	302.702	301.103	1.599
20	34_Unbias	298.154	295.332	2.822
20	35_Unbias	306.467	304.615	1.852
20	36_Unbias	303.094	301.058	2.036
0	2	326.832	338.698	-11.866
30	37_Unbias	307.810	305.736	2.074
30	38_Unbias	303.809	299.788	4.021
30	39_Unbias	316.213	314.220	1.993
30	40_Unbias	304.805	302.725	2.080
30	41_Unbias	304.236	300.978	3.258
0	2_corr	326.832	338.747	-11.915
40	42_Unbias	303.426	301.614	1.812
40	43_Unbias	301.952	299.402	2.550
40	44_Unbias	301.703	300.157	1.546
40	45_Unbias	304.531	302.844	1.687
40	46_Unbias	308.428	304.147	4.281
0	2	326.832	340.762	-13.930
50	47_Unbias	308.501	304.422	4.079
50	48_Unbias	309.768	304.879	4.889
50	49_Unbias	314.058	309.766	4.292
50	50_Unbias	303.346	299.112	4.234
50	51_Unbias	297.235	292.884	4.351
0	2	326.832	340.762	-13.930
75	47_Unbias	308.501	306.042	2.459
75	48_Unbias	309.768	308.914	0.854
75	49_Unbias	314.058	312.200	1.858
75	50_Unbias	303.346	302.031	1.315
75	51_Unbias	297.235	295.280	1.955
	Max	326.832	340.762	4.889
	Average	308.869	308.577	0.291
	Min	297.235	292.884	-13.930
	Std Dev	9.173	13.164	5.002



500.0_ICC_STANDBY_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	595	uA
Min Limit	0	uA

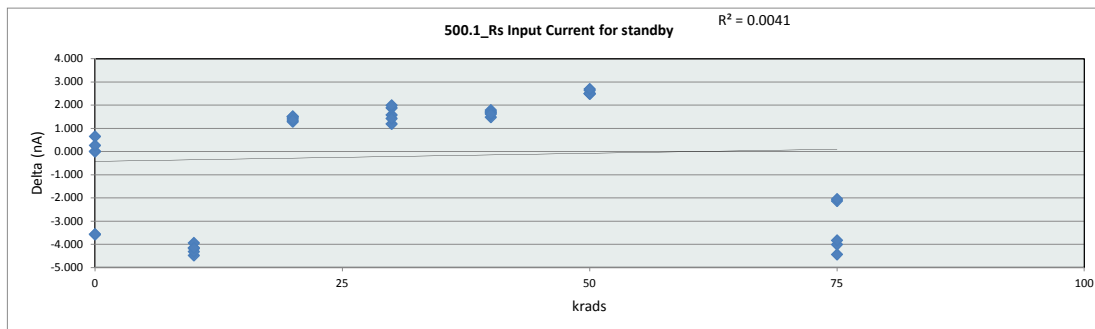
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	326.832	300.449	295.332	299.788	299.402	292.884	295.280
Average	335.439	304.879	300.924	304.689	301.633	302.213	304.893
Max	340.762	307.583	304.615	314.220	304.147	309.766	312.200
UL	595.000	595.000	595.000	595.000	595.000	595.000	595.000



TID 75k LDR Report
HVD233 Boac Teos

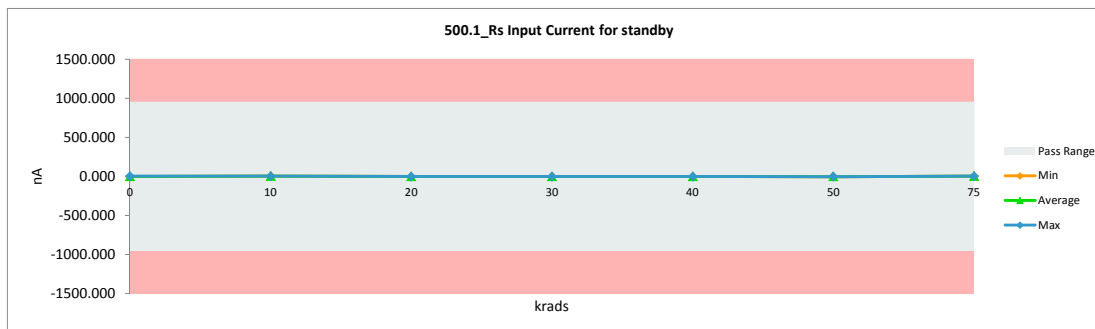
500.1_Rs Input Current for standby		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	nA	nA
Max Limit	950	950
Min Limit	-950	-950

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	-2.264	-2.264	0.000
10	27_Unbias	-1.113	3.369	-4.482
10	28_Unbias	-0.952	3.223	-4.175
10	29_Unbias	-0.908	3.046	-3.954
10	30_Unbias	-1.133	3.180	-4.313
10	31_Unbias	-1.424	2.731	-4.155
0	2_corr	-2.264	-2.264	0.000
20	32_Unbias	-0.975	-2.252	1.277
20	33_Unbias	-1.168	-2.598	1.430
20	34_Unbias	-1.113	-2.610	1.497
20	35_Unbias	-1.247	-2.752	1.505
20	36_Unbias	-1.152	-2.504	1.352
0	2	-2.264	-2.523	0.259
30	37_Unbias	-1.483	-2.672	1.189
30	38_Unbias	-1.211	-2.778	1.567
30	39_Unbias	-1.199	-3.073	1.874
30	40_Unbias	-0.979	-2.967	1.988
30	41_Unbias	-1.188	-2.609	1.421
0	2_corr	-2.264	-2.912	0.648
40	42_Unbias	-1.199	-2.975	1.776
40	43_Unbias	-1.192	-2.896	1.704
40	44_Unbias	-1.168	-2.637	1.469
40	45_Unbias	-0.853	-2.515	1.662
40	46_Unbias	-1.152	-2.767	1.615
0	2	-2.264	1.306	-3.570
50	47_Unbias	-1.019	-3.651	2.632
50	48_Unbias	-0.928	-3.415	2.487
50	49_Unbias	-1.117	-3.616	2.499
50	50_Unbias	-1.015	-3.506	2.491
50	51_Unbias	-0.897	-3.588	2.691
0	2	-2.264	1.306	-3.570
75	47_Unbias	-1.019	1.121	-2.140
75	48_Unbias	-0.928	3.091	-4.019
75	49_Unbias	-1.117	3.332	-4.449
75	50_Unbias	-1.015	1.046	-2.061
75	51_Unbias	-0.897	2.946	-3.843
	Max	-0.853	3.369	2.691
	Average	-1.287	-1.074	-0.214
	Min	-2.264	-3.651	-4.482
	Std Dev	0.464	2.625	2.633



500.1_Rs Input Current for standby		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	950	nA
Min Limit	-950	nA

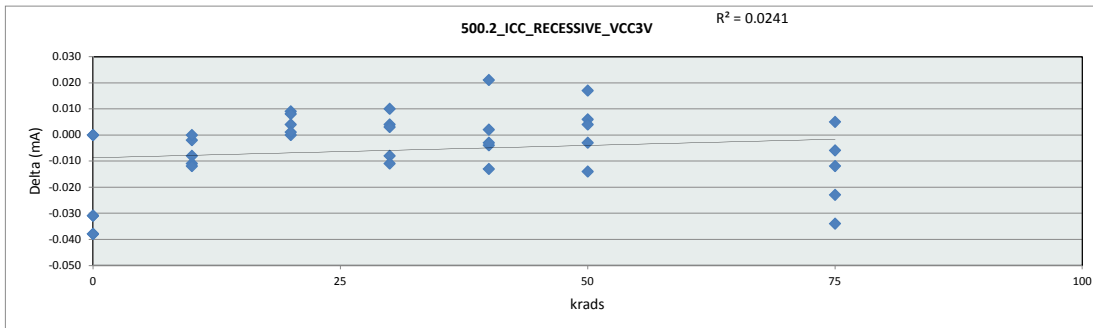
	0	10	20	30	40	50	75
LL	-950.000	-950.000	-950.000	-950.000	-950.000	-950.000	-950.000
Min	-2.912	2.731	-2.752	-3.073	-2.975	-3.651	1.046
Average	-1.225	3.110	-2.543	-2.820	-2.758	-3.555	2.307
Max	1.306	3.369	-2.252	-2.609	-2.515	-3.415	3.332
UL	950.000	950.000	950.000	950.000	950.000	950.000	950.000



TID 75k LDR Report
HVD233 Boac Teos

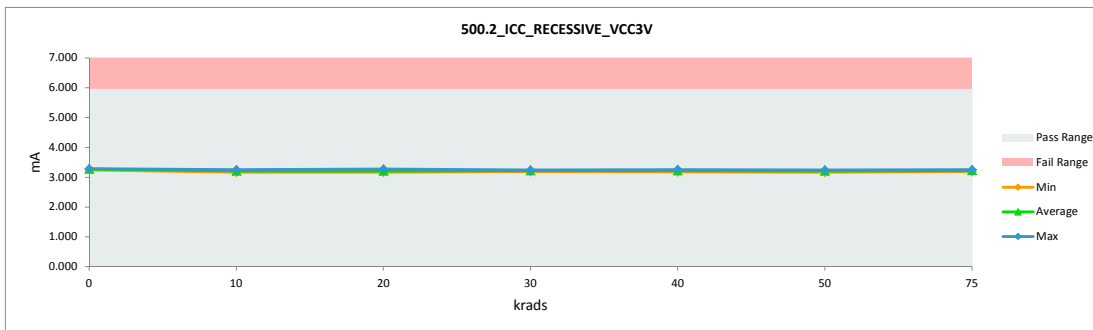
500.2_ICC_RECESSIVE_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.249	3.249	0.000
10	27_Unbias	3.224	3.226	-0.002
10	28_Unbias	3.163	3.171	-0.008
10	29_Unbias	3.195	3.206	-0.011
10	30_Unbias	3.202	3.202	0.000
10	31_Unbias	3.242	3.254	-0.012
0	2_corr	3.249	3.249	0.000
20	32_Unbias	3.281	3.277	0.004
20	33_Unbias	3.222	3.222	0.000
20	34_Unbias	3.196	3.195	0.001
20	35_Unbias	3.223	3.214	0.009
20	36_Unbias	3.177	3.169	0.008
0	2	3.249	3.280	-0.031
30	37_Unbias	3.241	3.231	0.010
30	38_Unbias	3.249	3.245	0.004
30	39_Unbias	3.220	3.217	0.003
30	40_Unbias	3.211	3.219	-0.008
30	41_Unbias	3.175	3.186	-0.011
0	2_corr	3.249	3.280	-0.031
40	42_Unbias	3.176	3.180	-0.004
40	43_Unbias	3.257	3.260	-0.003
40	44_Unbias	3.234	3.232	0.002
40	45_Unbias	3.192	3.205	-0.013
40	46_Unbias	3.255	3.234	0.021
0	2	3.249	3.287	-0.038
50	47_Unbias	3.232	3.226	0.006
50	48_Unbias	3.235	3.238	-0.003
50	49_Unbias	3.249	3.245	0.004
50	50_Unbias	3.152	3.166	-0.014
50	51_Unbias	3.206	3.189	0.017
0	2	3.249	3.287	-0.038
75	47_Unbias	3.232	3.244	-0.012
75	48_Unbias	3.235	3.258	-0.023
75	49_Unbias	3.249	3.255	-0.006
75	50_Unbias	3.152	3.186	-0.034
75	51_Unbias	3.206	3.201	0.005
	Max	3.281	3.287	0.021
	Average	3.222	3.227	-0.006
	Min	3.152	3.166	-0.038
	Std Dev	0.032	0.035	0.015



500.2_ICC_RECESSIVE_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	5.95	mA
Min Limit	0	mA

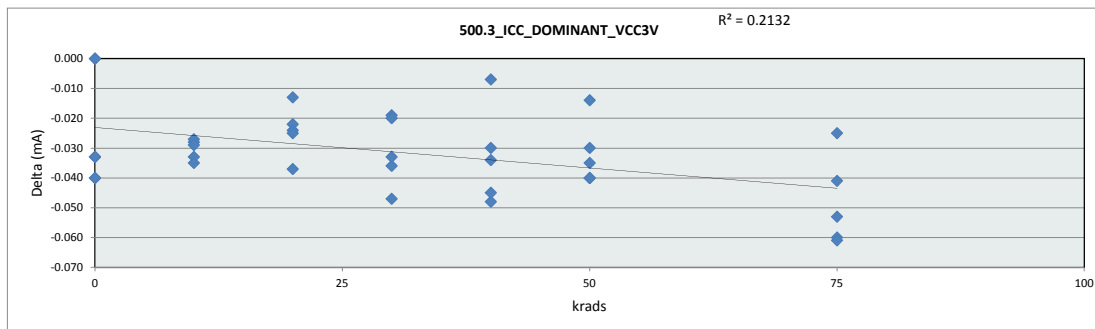
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	3.249	3.171	3.169	3.186	3.180	3.166	3.186
Average	3.272	3.212	3.215	3.220	3.222	3.213	3.229
Max	3.287	3.254	3.277	3.245	3.260	3.245	3.258
UL	5.950	5.950	5.950	5.950	5.950	5.950	5.950



TID 75k LDR Report HVD233 Boac Teos

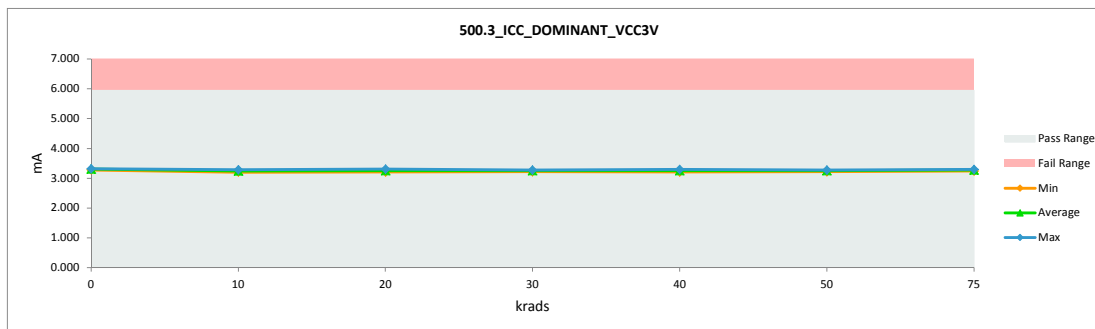
500.3_ICC_DOMINANT_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.281	3.281	0.000
10	27_Unbias	3.232	3.260	-0.028
10	28_Unbias	3.179	3.206	-0.027
10	29_Unbias	3.207	3.236	-0.029
10	30_Unbias	3.173	3.206	-0.033
10	31_Unbias	3.255	3.290	-0.035
0	2_corr	3.281	3.281	0.000
20	32_Unbias	3.272	3.309	-0.037
20	33_Unbias	3.249	3.271	-0.022
20	34_Unbias	3.206	3.230	-0.024
20	35_Unbias	3.225	3.250	-0.025
20	36_Unbias	3.195	3.208	-0.013
0	2	3.281	3.314	-0.033
30	37_Unbias	3.257	3.276	-0.019
30	38_Unbias	3.235	3.271	-0.036
30	39_Unbias	3.247	3.267	-0.020
30	40_Unbias	3.199	3.246	-0.047
30	41_Unbias	3.186	3.219	-0.033
0	2_corr	3.281	3.314	-0.033
40	42_Unbias	3.179	3.209	-0.030
40	43_Unbias	3.248	3.296	-0.048
40	44_Unbias	3.225	3.259	-0.034
40	45_Unbias	3.191	3.236	-0.045
40	46_Unbias	3.274	3.281	-0.007
0	2	3.281	3.321	-0.040
50	47_Unbias	3.224	3.259	-0.035
50	48_Unbias	3.238	3.278	-0.040
50	49_Unbias	3.244	3.274	-0.030
50	50_Unbias	3.186	3.226	-0.040
50	51_Unbias	3.226	3.240	-0.014
0	2	3.281	3.321	-0.040
75	47_Unbias	3.224	3.277	-0.053
75	48_Unbias	3.238	3.298	-0.060
75	49_Unbias	3.244	3.285	-0.041
75	50_Unbias	3.186	3.247	-0.061
75	51_Unbias	3.226	3.251	-0.025
	Max	3.281	3.321	0.000
	Average	3.232	3.264	-0.032
	Min	3.173	3.206	-0.061
	Std Dev	0.034	0.033	0.014



500.3_ICC_DOMINANT_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	5.95	mA
Min Limit	0	mA

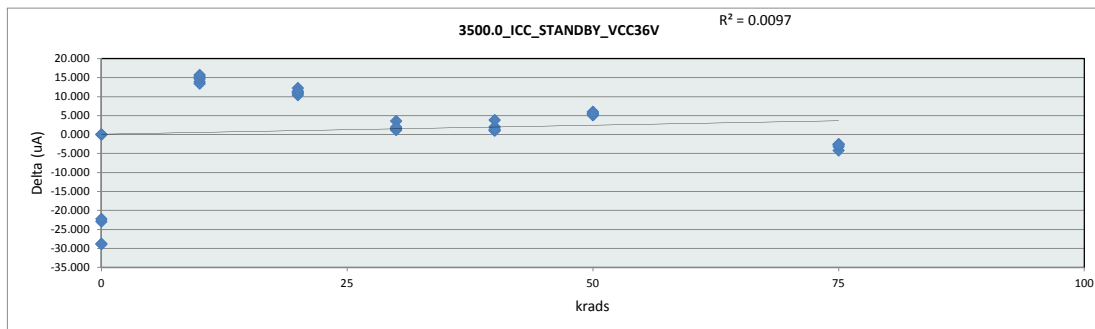
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	3.281	3.206	3.208	3.219	3.209	3.226	3.247
Average	3.305	3.240	3.254	3.256	3.256	3.255	3.272
Max	3.321	3.290	3.309	3.276	3.296	3.278	3.298
UL	5.950	5.950	5.950	5.950	5.950	5.950	5.950



TID 75k LDR Report
HVD233 Boac Teos

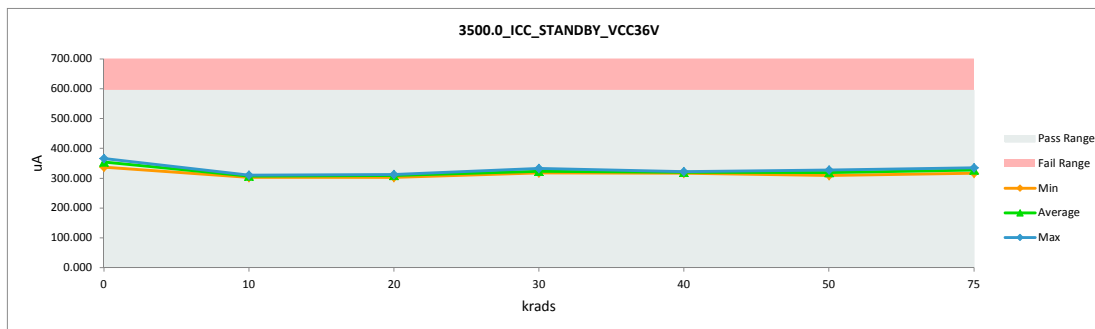
3500.0_ICC_STANDBY_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	uA	uA
Max Limit	595	595
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	337.473	337.473	0.000
10	27_Unbias	321.948	308.013	13.935
10	28_Unbias	321.571	308.153	13.418
10	29_Unbias	325.227	310.080	15.147
10	30_Unbias	317.071	302.411	14.660
10	31_Unbias	322.866	307.152	15.714
0	2_corr	337.473	337.473	0.000
20	32_Unbias	321.129	310.749	10.380
20	33_Unbias	320.087	309.216	10.871
20	34_Unbias	315.398	303.208	12.190
20	35_Unbias	323.473	312.397	11.076
20	36_Unbias	320.522	309.143	11.379
0	2	337.473	360.365	-22.892
30	37_Unbias	325.924	324.596	1.328
30	38_Unbias	321.579	318.054	3.525
30	39_Unbias	334.540	332.991	1.549
30	40_Unbias	322.457	321.227	1.230
30	41_Unbias	321.661	319.677	1.984
0	2_corr	337.473	359.676	-22.203
40	42_Unbias	320.735	319.735	1.000
40	43_Unbias	319.407	317.349	2.058
40	44_Unbias	319.022	317.890	1.132
40	45_Unbias	322.227	320.866	1.361
40	46_Unbias	326.539	322.727	3.812
0	2	337.473	366.309	-28.836
50	47_Unbias	326.047	320.989	5.058
50	48_Unbias	327.859	321.841	6.018
50	49_Unbias	332.647	327.113	5.534
50	50_Unbias	321.137	315.849	5.288
50	51_Unbias	314.652	309.044	5.608
0	2	337.473	366.309	-28.836
75	47_Unbias	326.047	328.567	-2.520
75	48_Unbias	327.859	332.076	-4.217
75	49_Unbias	332.647	335.355	-2.708
75	50_Unbias	321.137	324.313	-3.176
75	51_Unbias	314.652	317.361	-2.709
	Max	337.473	366.309	15.714
	Average	325.358	323.771	1.588
	Min	314.652	302.411	-28.836
	Std Dev	7.105	16.899	11.373



3500.0_ICC_STANDBY_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	595	uA
Min Limit	0	uA

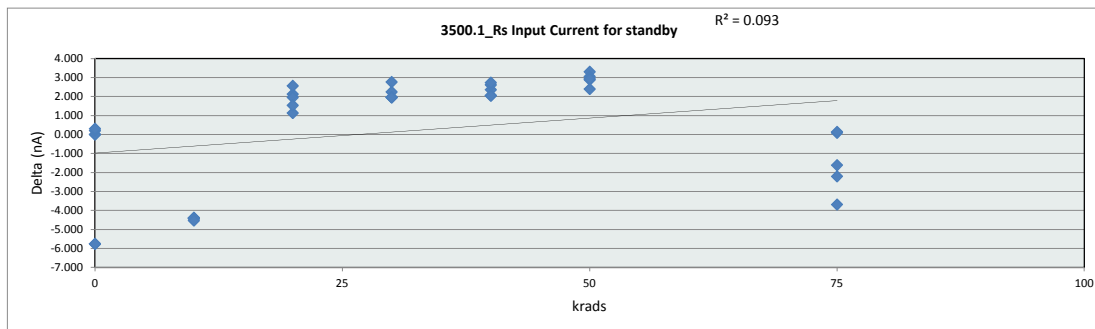
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	337.473	302.411	303.208	318.054	317.349	309.044	317.361
Average	354.601	307.162	308.943	323.309	319.713	318.967	327.534
Max	366.309	310.080	312.397	332.991	322.727	327.113	335.355
UL	595.000	595.000	595.000	595.000	595.000	595.000	595.000



TID 75k LDR Report
HVD233 Boac Teos

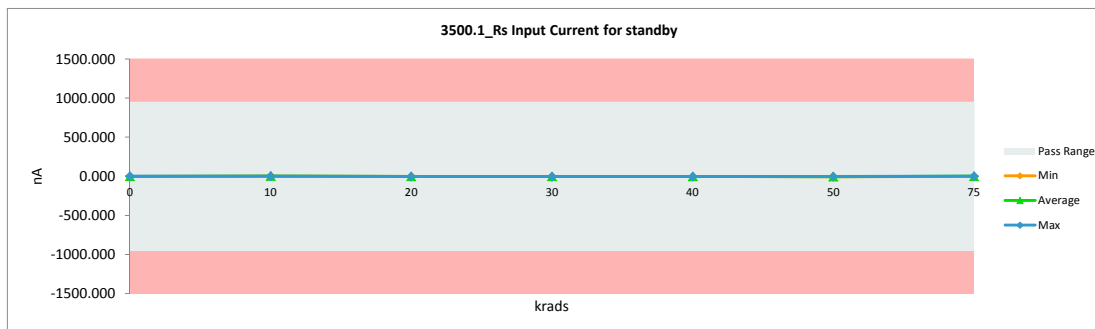
3500.1_Rs Input Current for sta		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	nA	nA
Max Limit	950	950
Min Limit	-950	-950

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	-3.529	-3.529	0.000
10	27_Unbias	-1.510	2.863	-4.373
10	28_Unbias	-1.483	2.930	-4.413
10	29_Unbias	-1.483	2.954	-4.437
10	30_Unbias	-1.416	2.997	-4.413
10	31_Unbias	-1.636	2.895	-4.531
0	2_corr	-3.529	-3.529	0.000
20	32_Unbias	-1.302	-3.434	2.132
20	33_Unbias	-1.467	-4.032	2.565
20	34_Unbias	-1.691	-3.643	1.952
20	35_Unbias	-1.408	-2.538	1.130
20	36_Unbias	-1.652	-3.187	1.535
0	2	-3.529	-3.737	0.208
30	37_Unbias	-1.542	-3.505	1.963
30	38_Unbias	-1.349	-4.122	2.773
30	39_Unbias	-1.585	-3.828	2.243
30	40_Unbias	-1.396	-3.348	1.952
30	41_Unbias	-1.215	-3.175	1.960
0	2_corr	-3.529	-3.835	0.306
40	42_Unbias	-1.435	-3.796	2.361
40	43_Unbias	-1.325	-3.934	2.609
40	44_Unbias	-1.640	-3.694	2.054
40	45_Unbias	-1.435	-4.162	2.727
40	46_Unbias	-1.628	-3.678	2.050
0	2	-3.529	2.235	-5.764
50	47_Unbias	-1.306	-4.197	2.891
50	48_Unbias	-1.392	-3.788	2.396
50	49_Unbias	-1.235	-4.539	3.304
50	50_Unbias	-1.553	-4.602	3.049
50	51_Unbias	-1.577	-4.504	2.927
0	2	-3.529	2.235	-5.764
75	47_Unbias	-1.306	-1.399	0.093
75	48_Unbias	-1.392	0.820	-2.212
75	49_Unbias	-1.235	-1.379	0.144
75	50_Unbias	-1.553	2.144	-3.697
75	51_Unbias	-1.577	0.036	-1.613
	Max	-1.215	2.997	3.304
	Average	-1.803	-1.972	0.170
	Min	-3.529	-4.602	-5.764
	Std Dev	0.793	2.762	2.923



3500.1_Rs Input Current for s		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	950	nA
Min Limit	-950	nA

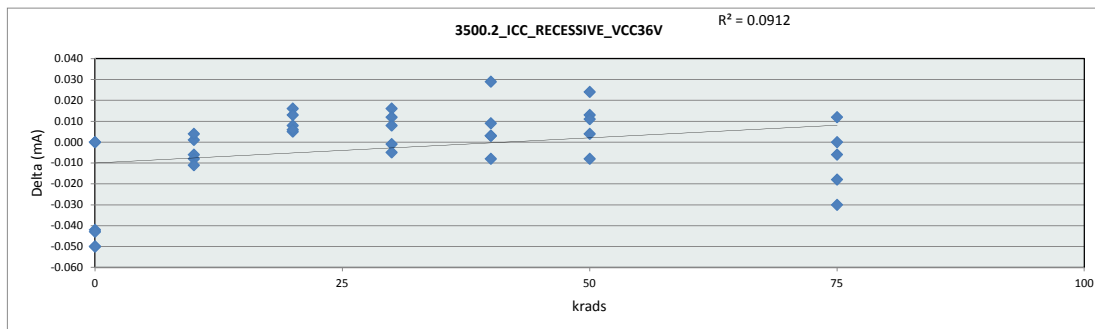
	0	10	20	30	40	50	75
LL	-950.000	-950.000	-950.000	-950.000	-950.000	-950.000	-950.000
Min	-3.835	2.863	-4.032	-4.122	-4.162	-4.602	-1.399
Average	-1.693	2.928	-3.367	-3.596	-3.853	-4.326	0.044
Max	2.235	2.997	-2.538	-3.175	-3.678	-3.788	2.144
UL	950.000	950.000	950.000	950.000	950.000	950.000	950.000



TID 75k LDR Report HVD233 Boac Teos

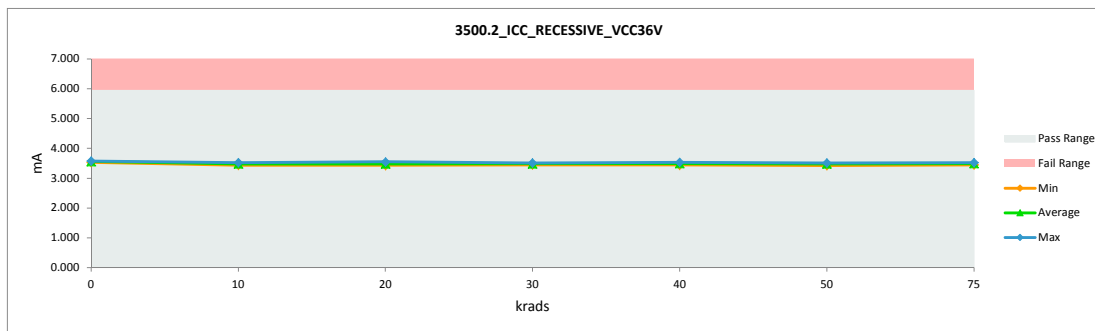
3500.2_ICC_RECESSIVE_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.528	3.528	0.000
10	27_Unbias	3.493	3.492	0.001
10	28_Unbias	3.428	3.434	-0.006
10	29_Unbias	3.464	3.472	-0.008
10	30_Unbias	3.472	3.468	0.004
10	31_Unbias	3.513	3.524	-0.011
0	2_corr	3.528	3.528	0.000
20	32_Unbias	3.556	3.548	0.008
20	33_Unbias	3.491	3.486	0.005
20	34_Unbias	3.465	3.459	0.006
20	35_Unbias	3.491	3.475	0.016
20	36_Unbias	3.444	3.431	0.013
0	2	3.528	3.570	-0.042
30	37_Unbias	3.512	3.496	0.016
30	38_Unbias	3.523	3.511	0.012
30	39_Unbias	3.490	3.482	0.008
30	40_Unbias	3.483	3.484	-0.001
30	41_Unbias	3.443	3.448	-0.005
0	2_corr	3.528	3.571	-0.043
40	42_Unbias	3.444	3.441	0.003
40	43_Unbias	3.531	3.528	0.003
40	44_Unbias	3.501	3.492	0.009
40	45_Unbias	3.462	3.470	-0.008
40	46_Unbias	3.527	3.498	0.029
0	2	3.528	3.578	-0.050
50	47_Unbias	3.501	3.488	0.013
50	48_Unbias	3.507	3.503	0.004
50	49_Unbias	3.522	3.511	0.011
50	50_Unbias	3.419	3.427	-0.008
50	51_Unbias	3.478	3.454	0.024
0	2	3.528	3.578	-0.050
75	47_Unbias	3.501	3.507	-0.006
75	48_Unbias	3.507	3.525	-0.018
75	49_Unbias	3.522	3.522	0.000
75	50_Unbias	3.419	3.449	-0.030
75	51_Unbias	3.478	3.466	0.012
	Max	3.556	3.578	0.029
	Average	3.493	3.496	-0.002
	Min	3.419	3.427	-0.050
	Std Dev	0.035	0.042	0.019



3500.2_ICC_RECESSIVE_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	5.95	mA
Min Limit	0	mA

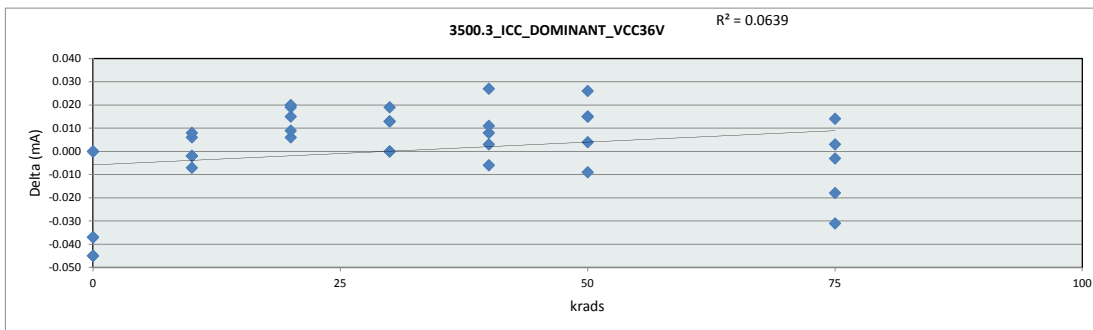
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	3.528	3.434	3.431	3.448	3.441	3.427	3.449
Average	3.559	3.478	3.480	3.484	3.486	3.477	3.494
Max	3.578	3.524	3.548	3.511	3.528	3.511	3.525
UL	5.950	5.950	5.950	5.950	5.950	5.950	5.950



TID 75k LDR Report
HVD233 Boac Teos

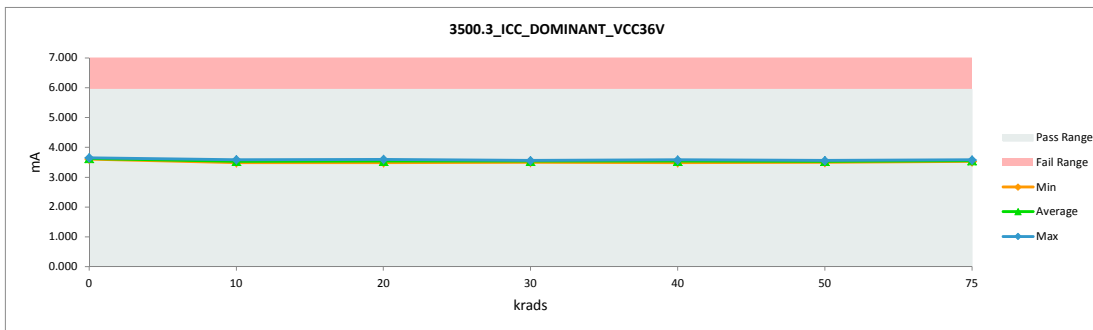
3500.3_ICC_DOMINANT_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mA	mA
Max Limit	5.95	5.95
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.604	3.604	0.000
10	27_Unbias	3.557	3.551	0.006
10	28_Unbias	3.490	3.492	-0.002
10	29_Unbias	3.522	3.524	-0.002
10	30_Unbias	3.502	3.494	0.008
10	31_Unbias	3.577	3.584	-0.007
0	2_corr	3.604	3.604	0.000
20	32_Unbias	3.612	3.597	0.015
20	33_Unbias	3.562	3.556	0.006
20	34_Unbias	3.521	3.512	0.009
20	35_Unbias	3.549	3.530	0.019
20	36_Unbias	3.508	3.488	0.020
0	2	3.604	3.641	-0.037
30	37_Unbias	3.577	3.558	0.019
30	38_Unbias	3.568	3.555	0.013
30	39_Unbias	3.564	3.551	0.013
30	40_Unbias	3.529	3.529	0.000
30	41_Unbias	3.498	3.498	0.000
0	2_corr	3.604	3.641	-0.037
40	42_Unbias	3.495	3.487	0.008
40	43_Unbias	3.583	3.580	0.003
40	44_Unbias	3.547	3.536	0.011
40	45_Unbias	3.510	3.516	-0.006
40	46_Unbias	3.592	3.565	0.027
0	2	3.604	3.649	-0.045
50	47_Unbias	3.554	3.539	0.015
50	48_Unbias	3.563	3.559	0.004
50	49_Unbias	3.572	3.557	0.015
50	50_Unbias	3.495	3.504	-0.009
50	51_Unbias	3.547	3.521	0.026
0	2	3.604	3.649	-0.045
75	47_Unbias	3.554	3.557	-0.003
75	48_Unbias	3.563	3.581	-0.018
75	49_Unbias	3.572	3.569	0.003
75	50_Unbias	3.495	3.526	-0.031
75	51_Unbias	3.547	3.533	0.014
	Max	3.612	3.649	0.027
	Average	3.554	3.554	0.000
	Min	3.490	3.487	-0.045
	Std Dev	0.038	0.046	0.019



3500.3_ICC_DOMINANT_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	5.95	mA
Min Limit	0	mA

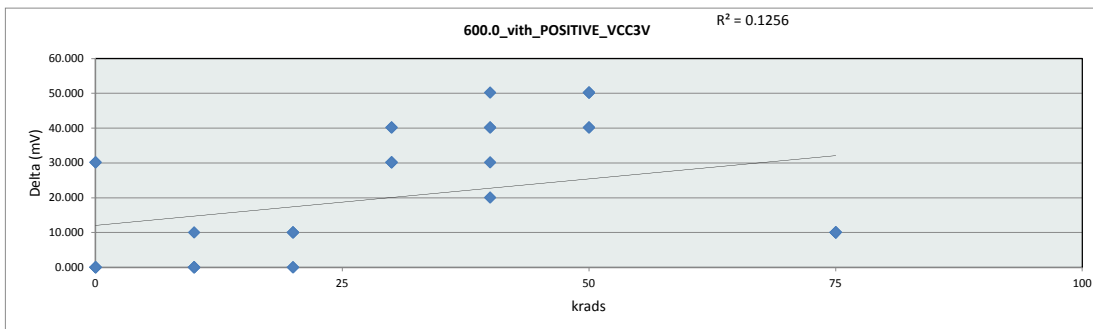
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	3.604	3.492	3.488	3.498	3.487	3.504	3.526
Average	3.631	3.529	3.537	3.538	3.537	3.536	3.553
Max	3.649	3.584	3.597	3.558	3.580	3.559	3.581
UL	5.950	5.950	5.950	5.950	5.950	5.950	5.950



TID 75k LDR Report HVD233 Boac Teos

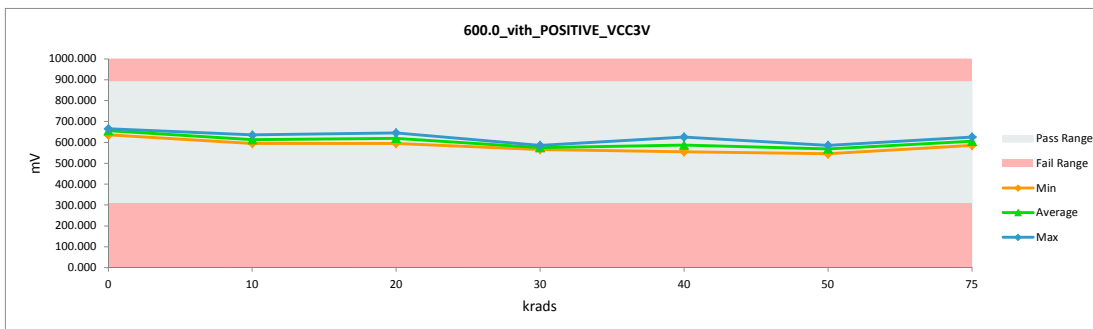
600.0_vith_POSITIVE_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	665.829	665.829	0.000
10	27_Unbias	625.628	615.578	10.050
10	28_Unbias	615.578	615.578	0.000
10	29_Unbias	605.528	605.528	0.000
10	30_Unbias	595.477	595.477	0.000
10	31_Unbias	635.678	635.678	0.000
0	2_corr	665.829	665.829	0.000
20	32_Unbias	655.779	645.729	10.050
20	33_Unbias	635.678	625.628	10.050
20	34_Unbias	615.578	615.578	0.000
20	35_Unbias	605.528	595.477	10.051
20	36_Unbias	615.578	615.578	0.000
0	2	665.829	635.678	30.151
30	37_Unbias	605.528	575.377	30.151
30	38_Unbias	615.578	585.427	30.151
30	39_Unbias	615.578	575.377	40.201
30	40_Unbias	595.477	565.327	30.150
30	41_Unbias	615.578	575.377	40.201
0	2_corr	665.829	635.678	30.151
40	42_Unbias	635.678	595.477	40.201
40	43_Unbias	625.628	595.477	30.151
40	44_Unbias	595.477	555.276	40.201
40	45_Unbias	645.729	625.628	20.101
40	46_Unbias	615.578	565.327	50.251
0	2	665.829	665.829	0.000
50	47_Unbias	615.578	575.377	40.201
50	48_Unbias	595.477	545.226	50.251
50	49_Unbias	615.578	575.377	40.201
50	50_Unbias	615.578	565.327	50.251
50	51_Unbias	635.678	585.427	50.251
0	2	665.829	665.829	0.000
75	47_Unbias	615.578	605.528	10.050
75	48_Unbias	595.477	585.427	10.050
75	49_Unbias	615.578	605.528	10.050
75	50_Unbias	615.578	605.528	10.050
75	51_Unbias	635.678	625.628	10.050
	Max	665.829	665.829	50.251
	Average	625.628	605.248	20.380
	Min	595.477	545.226	0.000
	Std Dev	23.044	32.808	18.215



600.0_vith_POSITIVE_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	890	mV
Min Limit	310	mV

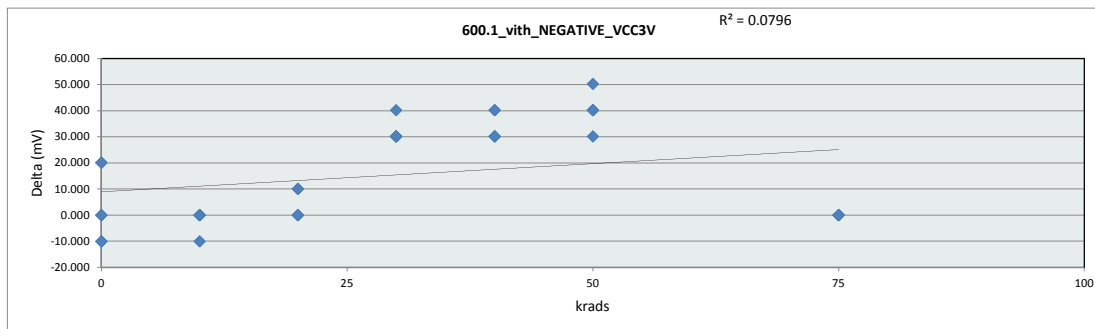
	0	10	20	30	40	50	75
LL	310.000	310.000	310.000	310.000	310.000	310.000	310.000
Min	635.678	595.477	595.477	565.327	555.276	545.226	585.427
Average	655.779	613.568	619.598	575.377	587.437	569.347	605.528
Max	665.829	635.678	645.729	585.427	625.628	585.427	625.628
UL	890.000	890.000	890.000	890.000	890.000	890.000	890.000



TID 75k LDR Report HVD233 Boac Teos

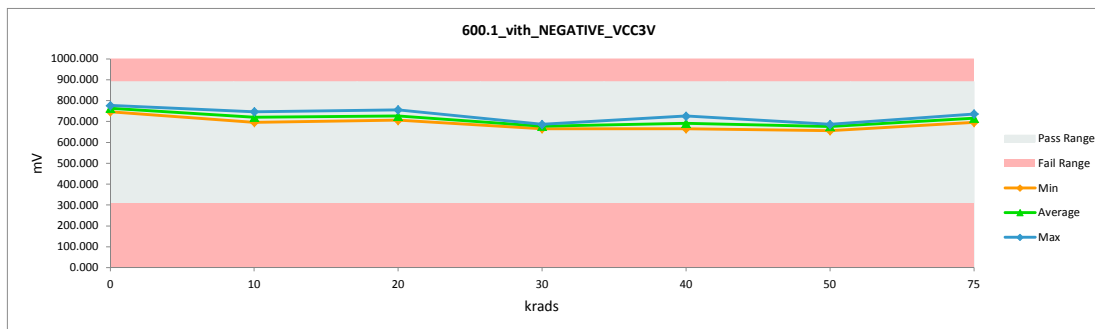
600.1_vith_NEGATIVE_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	766.332	766.332	0.000
10	27_Unbias	726.131	726.131	0.000
10	28_Unbias	716.081	726.131	-10.050
10	29_Unbias	706.030	706.030	0.000
10	30_Unbias	695.980	695.980	0.000
10	31_Unbias	746.231	746.231	0.000
0	2_corr	766.332	766.332	0.000
20	32_Unbias	756.282	756.282	0.000
20	33_Unbias	736.181	736.181	0.000
20	34_Unbias	726.131	716.081	10.050
20	35_Unbias	716.081	706.030	10.051
20	36_Unbias	716.081	716.081	0.000
0	2	766.332	746.231	20.101
30	37_Unbias	706.030	675.879	30.151
30	38_Unbias	716.081	685.929	30.152
30	39_Unbias	716.081	675.879	40.202
30	40_Unbias	695.980	665.829	30.151
30	41_Unbias	716.081	685.929	30.152
0	2_corr	766.332	746.231	20.101
40	42_Unbias	736.181	695.980	40.201
40	43_Unbias	726.131	695.980	30.151
40	44_Unbias	695.980	665.829	30.151
40	45_Unbias	756.282	726.131	30.151
40	46_Unbias	716.081	675.879	40.202
0	2	766.332	776.382	-10.050
50	47_Unbias	716.081	675.879	40.202
50	48_Unbias	695.980	655.779	40.201
50	49_Unbias	716.081	685.929	30.152
50	50_Unbias	716.081	675.879	40.202
50	51_Unbias	736.181	685.929	50.252
0	2	766.332	776.382	-10.050
75	47_Unbias	716.081	716.081	0.000
75	48_Unbias	695.980	695.980	0.000
75	49_Unbias	716.081	716.081	0.000
75	50_Unbias	716.081	716.081	0.000
75	51_Unbias	736.181	736.181	0.000
	Max	766.332	776.382	50.252
	Average	727.248	711.614	15.634
	Min	695.980	655.779	-10.050
	Std Dev	23.265	33.501	18.523



600.1_vith_NEGATIVE_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	890	mV
Min Limit	310	mV

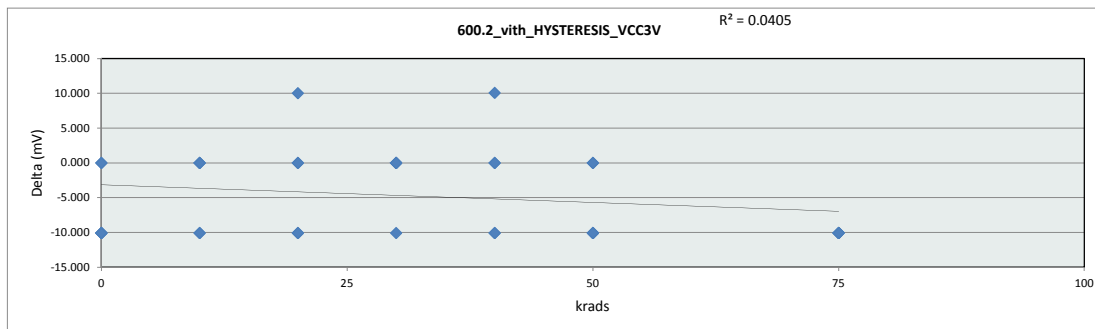
	0	10	20	30	40	50	75
LL	310.000	310.000	310.000	310.000	310.000	310.000	310.000
Min	746.231	695.980	706.030	665.829	665.829	655.779	695.980
Average	762.982	720.101	726.131	677.889	691.960	675.879	716.081
Max	776.382	746.231	756.282	685.929	726.131	685.929	736.181
UL	890.000	890.000	890.000	890.000	890.000	890.000	890.000



TID 75k LDR Report HVD233 Boac Teos

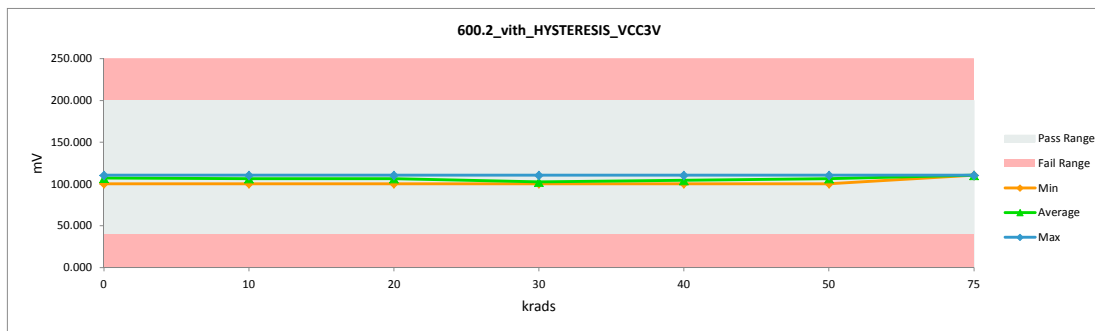
600.2_vith_HYSTERESIS_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	200	200
Min Limit	40	40

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	100.503	100.503	0.000
10	27_Unbias	100.502	110.553	-10.051
10	28_Unbias	100.503	110.553	-10.050
10	29_Unbias	100.502	100.502	0.000
10	30_Unbias	100.502	100.502	0.000
10	31_Unbias	110.553	110.553	0.000
0	2_corr	100.503	100.503	0.000
20	32_Unbias	100.503	110.553	-10.050
20	33_Unbias	100.502	110.553	-10.051
20	34_Unbias	110.553	100.503	10.050
20	35_Unbias	110.553	110.553	0.000
20	36_Unbias	100.503	100.503	0.000
0	2	100.503	110.553	-10.050
30	37_Unbias	100.502	100.502	0.000
30	38_Unbias	100.503	100.502	0.001
30	39_Unbias	100.503	100.502	0.001
30	40_Unbias	100.502	100.502	0.000
30	41_Unbias	100.503	110.553	-10.050
0	2_corr	100.503	110.553	-10.050
40	42_Unbias	100.502	100.502	0.000
40	43_Unbias	100.502	100.502	0.000
40	44_Unbias	100.502	110.553	-10.051
40	45_Unbias	110.553	100.502	10.051
40	46_Unbias	100.503	110.553	-10.050
0	2	100.503	110.553	-10.050
50	47_Unbias	100.503	100.502	0.001
50	48_Unbias	100.502	110.553	-10.051
50	49_Unbias	100.503	110.553	-10.050
50	50_Unbias	100.503	110.553	-10.050
50	51_Unbias	100.502	100.502	0.000
0	2	100.503	110.553	-10.050
75	47_Unbias	100.503	110.553	-10.050
75	48_Unbias	100.502	110.553	-10.051
75	49_Unbias	100.503	110.553	-10.050
75	50_Unbias	100.503	110.553	-10.050
75	51_Unbias	100.502	110.553	-10.051
	Max	110.553	110.553	10.051
	Average	101.619	106.365	-4.746
	Min	100.502	100.502	-10.051
	Std Dev	3.203	5.025	6.119



600.2_vith_HYSTERESIS_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Max Limit	200	mV
Min Limit	40	mV

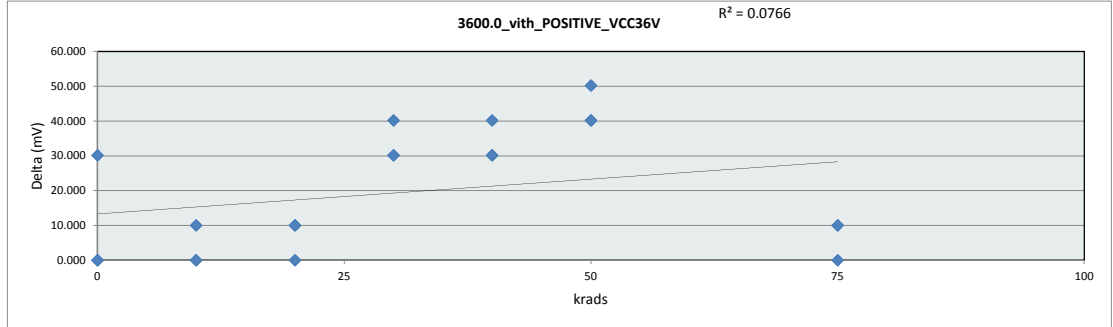
krads	0	10	20	30	40	50	75
LL	40.000	40.000	40.000	40.000	40.000	40.000	40.000
Min	100.503	100.502	100.503	100.502	100.502	100.502	110.553
Average	107.203	106.533	106.533	102.512	104.522	106.533	110.553
Max	110.553	110.553	110.553	110.553	110.553	110.553	110.553
UL	200.000	200.000	200.000	200.000	200.000	200.000	200.000



TID 75k LDR Report
HVD233 Boac Teos

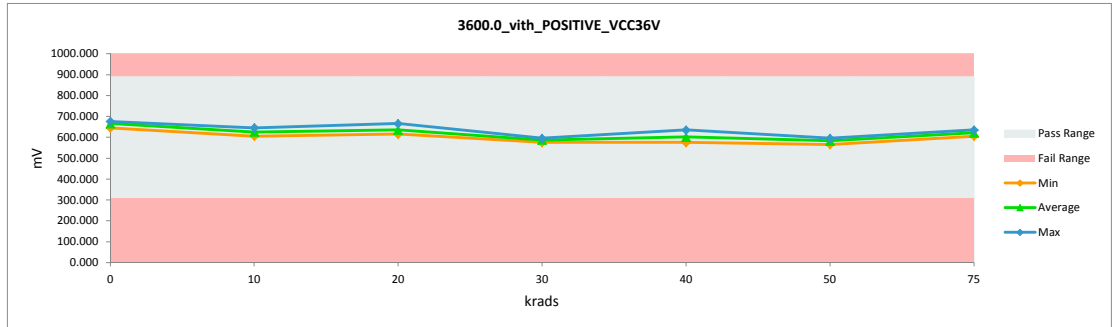
3600.0_vith_POSITIVE_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	675.879	675.879	0.000
10	27_Unbias	635.678	635.678	0.000
10	28_Unbias	625.628	625.628	0.000
10	29_Unbias	615.578	615.578	0.000
10	30_Unbias	615.578	605.528	10.050
10	31_Unbias	655.779	645.729	10.050
0	2_corr	675.879	675.879	0.000
20	32_Unbias	665.829	665.829	0.000
20	33_Unbias	645.729	645.729	0.000
20	34_Unbias	635.678	625.628	10.050
20	35_Unbias	625.628	615.578	10.050
20	36_Unbias	635.678	625.628	10.050
0	2	675.879	645.729	30.150
30	37_Unbias	615.578	585.427	30.151
30	38_Unbias	625.628	595.478	30.150
30	39_Unbias	625.628	585.427	40.201
30	40_Unbias	615.578	575.377	40.201
30	41_Unbias	625.628	595.478	30.150
0	2_corr	675.879	645.729	30.150
40	42_Unbias	645.729	605.528	40.201
40	43_Unbias	635.678	605.528	30.150
40	44_Unbias	605.528	575.377	30.151
40	45_Unbias	665.829	635.678	30.151
40	46_Unbias	625.628	585.427	40.201
0	2	675.879	675.879	0.000
50	47_Unbias	625.628	585.427	40.201
50	48_Unbias	605.528	565.327	40.201
50	49_Unbias	635.678	585.427	50.251
50	50_Unbias	625.628	585.427	40.201
50	51_Unbias	645.729	595.478	50.251
0	2	675.879	675.879	0.000
75	47_Unbias	625.628	615.578	10.050
75	48_Unbias	605.528	605.528	0.000
75	49_Unbias	635.678	625.628	10.050
75	50_Unbias	625.628	625.628	0.000
75	51_Unbias	645.729	635.678	10.051
	Max	675.879	675.879	50.251
	Average	638.191	618.649	19.542
	Min	605.528	565.327	0.000
	Std Dev	22.328	31.583	17.481



3600.0_vith_POSITIVE_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	890	mV
Min Limit	310	mV

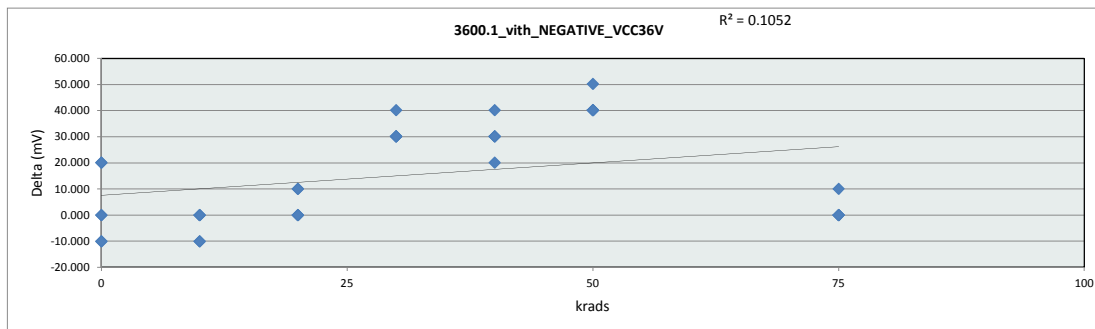
	0	10	20	30	40	50	75
LL	310.000	310.000	310.000	310.000	310.000	310.000	310.000
Min	645.729	605.528	615.578	575.377	575.377	565.327	605.528
Average	665.829	625.628	635.678	587.437	601.508	583.417	621.608
Max	675.879	645.729	665.829	595.478	635.678	595.478	635.678
UL	890.000	890.000	890.000	890.000	890.000	890.000	890.000



TID 75k LDR Report
HVD233 Boac Teos

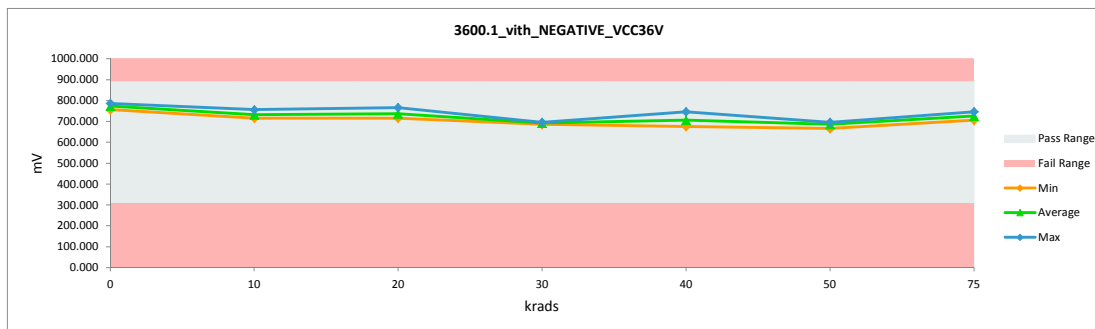
3600.1_vith_NEGATIVE_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	890	890
Min Limit	310	310

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	776.382	776.382	0.000
10	27_Unbias	736.181	736.181	0.000
10	28_Unbias	726.131	736.181	-10.050
10	29_Unbias	716.080	716.080	0.000
10	30_Unbias	706.030	716.080	-10.050
10	31_Unbias	756.281	756.281	0.000
0	2_corr	776.382	776.382	0.000
20	32_Unbias	766.332	766.332	0.000
20	33_Unbias	746.231	746.231	0.000
20	34_Unbias	736.181	726.131	10.050
20	35_Unbias	726.131	716.080	10.051
20	36_Unbias	726.131	726.131	0.000
0	2	776.382	756.281	20.101
30	37_Unbias	716.080	685.929	30.151
30	38_Unbias	736.181	695.980	40.201
30	39_Unbias	726.131	695.980	30.151
30	40_Unbias	716.080	685.929	30.151
30	41_Unbias	726.131	695.980	30.151
0	2_corr	776.382	756.281	20.101
40	42_Unbias	746.231	716.080	30.151
40	43_Unbias	736.181	706.030	30.151
40	44_Unbias	706.030	675.879	30.151
40	45_Unbias	766.332	746.231	20.101
40	46_Unbias	726.131	685.929	40.202
0	2	776.382	786.432	-10.050
50	47_Unbias	726.131	685.929	40.202
50	48_Unbias	706.030	665.829	40.201
50	49_Unbias	736.181	695.980	40.201
50	50_Unbias	726.131	685.929	40.202
50	51_Unbias	746.231	695.980	50.251
0	2	776.382	786.432	-10.050
75	47_Unbias	726.131	726.131	0.000
75	48_Unbias	706.030	706.030	0.000
75	49_Unbias	736.181	726.131	10.050
75	50_Unbias	726.131	726.131	0.000
75	51_Unbias	746.231	746.231	0.000
	Max	776.382	786.432	50.251
	Average	738.414	723.060	15.355
	Min	706.030	665.829	-10.050
	Std Dev	22.679	32.838	18.530



3600.1_vith_NEGATIVE_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	890	mV
Min Limit	310	mV

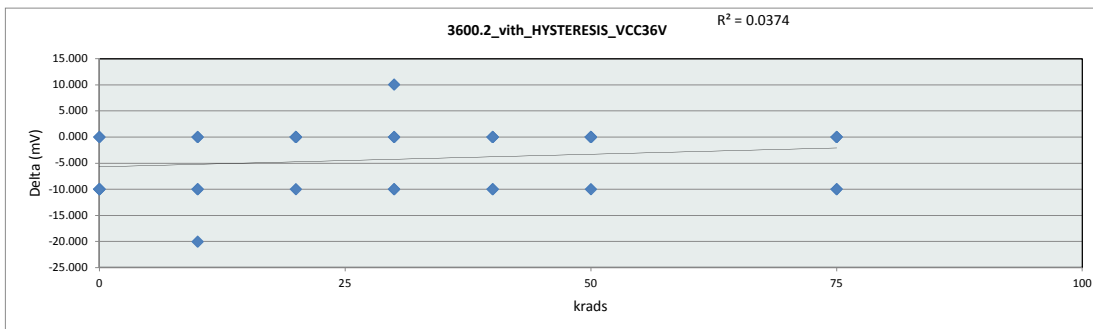
krads	0	10	20	30	40	50	75
LL	310.000	310.000	310.000	310.000	310.000	310.000	310.000
Min	756.281	716.080	716.080	685.929	675.879	665.829	706.030
Average	773.032	732.161	736.181	691.960	706.030	685.929	726.131
Max	786.432	756.281	766.332	695.980	746.231	695.980	746.231
UL	890.000	890.000	890.000	890.000	890.000	890.000	890.000



TID 75k LDR Report
HVD233 Boac Teos

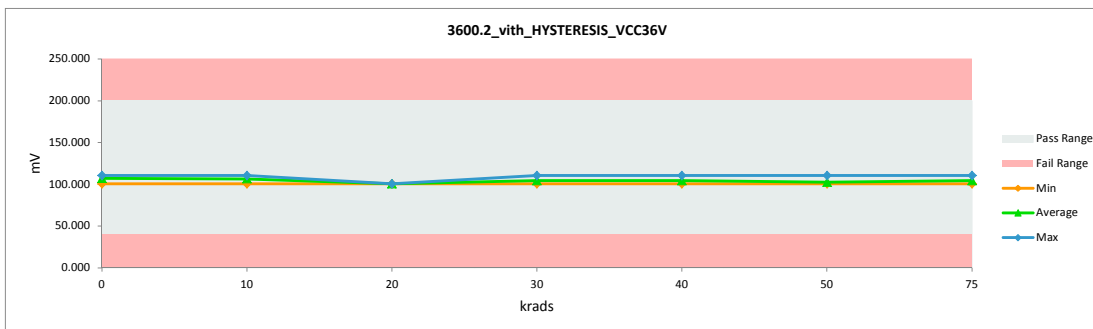
3600.2_vith_HYSTERESIS_VCC3		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	mV	mV
Max Limit	200	200
Min Limit	40	40

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	100.503	100.503	0.000
10	27_Unbias	100.502	100.502	0.000
10	28_Unbias	100.502	110.553	-10.051
10	29_Unbias	100.503	100.503	0.000
10	30_Unbias	90.452	110.553	-20.101
10	31_Unbias	100.503	110.553	-10.050
0	2_corr	100.503	100.503	0.000
20	32_Unbias	100.503	100.503	0.000
20	33_Unbias	100.503	100.503	0.000
20	34_Unbias	100.502	100.502	0.000
20	35_Unbias	100.502	100.503	-0.001
20	36_Unbias	90.452	100.502	-10.050
0	2	100.503	110.553	-10.050
30	37_Unbias	100.503	100.502	0.001
30	38_Unbias	110.553	100.502	10.051
30	39_Unbias	100.502	110.553	-10.051
30	40_Unbias	100.503	110.553	-10.050
30	41_Unbias	100.502	100.502	0.000
0	2_corr	100.503	110.553	-10.050
40	42_Unbias	100.503	110.553	-10.050
40	43_Unbias	100.502	100.503	-0.001
40	44_Unbias	100.503	100.502	0.001
40	45_Unbias	100.503	110.553	-10.050
40	46_Unbias	100.502	100.502	0.000
0	2	100.503	110.553	-10.050
50	47_Unbias	100.502	100.502	0.000
50	48_Unbias	100.503	100.502	0.001
50	49_Unbias	100.502	110.553	-10.051
50	50_Unbias	100.502	100.502	0.000
50	51_Unbias	100.503	100.502	0.001
0	2	100.503	110.553	-10.050
75	47_Unbias	100.502	110.553	-10.051
75	48_Unbias	100.503	100.503	0.000
75	49_Unbias	100.502	100.502	0.000
75	50_Unbias	100.502	100.502	0.000
75	51_Unbias	100.503	110.553	-10.050
	Max	110.553	110.553	10.051
	Average	100.223	104.411	-4.188
	Min	90.452	100.502	-20.101
	Std Dev	2.929	4.969	6.066



3600.2_vith_HYSTERESIS_VCC3		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	200	mV
Min Limit	40	mV

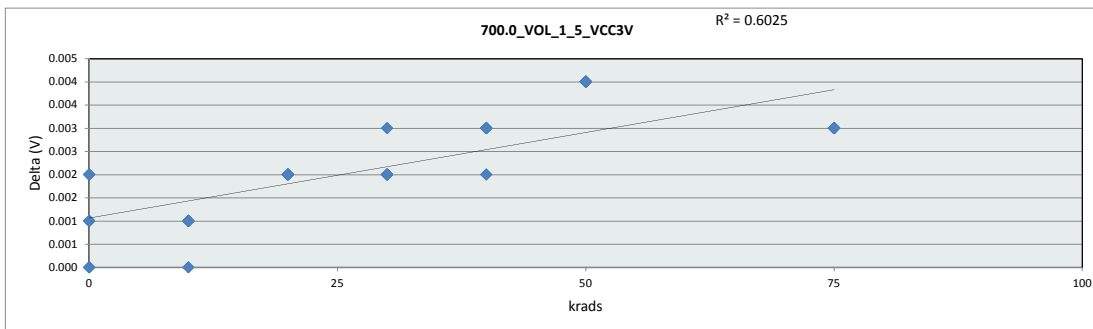
krads	0	10	20	30	40	50	75
LL	40.000	40.000	40.000	40.000	40.000	40.000	40.000
Min	100.503	100.502	100.502	100.502	100.502	100.502	100.502
Average	107.203	106.533	100.503	104.522	104.523	102.512	104.523
Max	110.553	110.553	100.503	110.553	110.553	110.553	110.553
UL	200.000	200.000	200.000	200.000	200.000	200.000	200.000



TID 75k LDR Report HVD233 Boac Teos

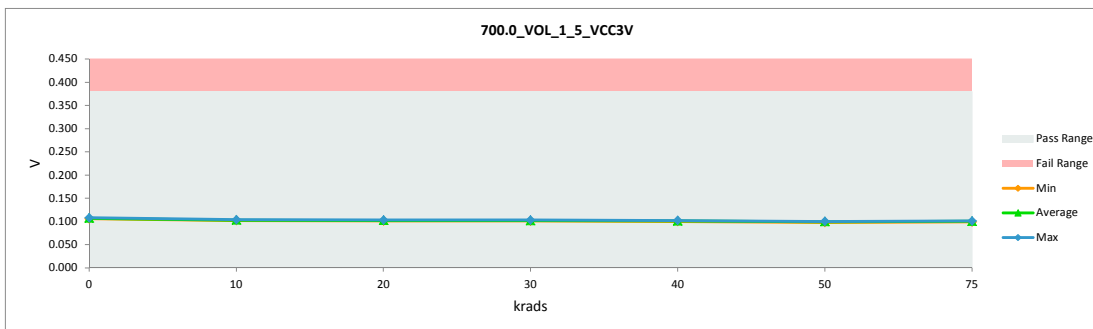
700.0_VOL_1_5_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

kkrads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.108	0.108	0.000
10	27_Unbias	0.104	0.104	0.000
10	28_Unbias	0.104	0.103	0.001
10	29_Unbias	0.103	0.102	0.001
10	30_Unbias	0.103	0.102	0.001
10	31_Unbias	0.104	0.103	0.001
0	2_corr	0.108	0.108	0.000
20	32_Unbias	0.105	0.103	0.002
20	33_Unbias	0.103	0.101	0.002
20	34_Unbias	0.104	0.102	0.002
20	35_Unbias	0.104	0.102	0.002
20	36_Unbias	0.104	0.102	0.002
0	2	0.108	0.106	0.002
30	37_Unbias	0.104	0.102	0.002
30	38_Unbias	0.103	0.101	0.002
30	39_Unbias	0.103	0.101	0.002
30	40_Unbias	0.105	0.103	0.002
30	41_Unbias	0.104	0.101	0.003
0	2_corr	0.108	0.106	0.002
40	42_Unbias	0.104	0.101	0.003
40	43_Unbias	0.104	0.101	0.003
40	44_Unbias	0.105	0.102	0.003
40	45_Unbias	0.103	0.100	0.003
40	46_Unbias	0.103	0.101	0.002
0	2	0.108	0.107	0.001
50	47_Unbias	0.104	0.100	0.004
50	48_Unbias	0.102	0.098	0.004
50	49_Unbias	0.103	0.099	0.004
50	50_Unbias	0.104	0.100	0.004
50	51_Unbias	0.103	0.099	0.004
0	2	0.108	0.107	0.001
75	47_Unbias	0.104	0.101	0.003
75	48_Unbias	0.102	0.099	0.003
75	49_Unbias	0.103	0.100	0.003
75	50_Unbias	0.104	0.101	0.003
75	51_Unbias	0.103	0.100	0.003
	Max	0.108	0.108	0.004
	Average	0.104	0.102	0.002
	Min	0.102	0.098	0.000
	Std Dev	0.002	0.003	0.001



700.0_VOL_1_5_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.38	V
Min Limit	0	V

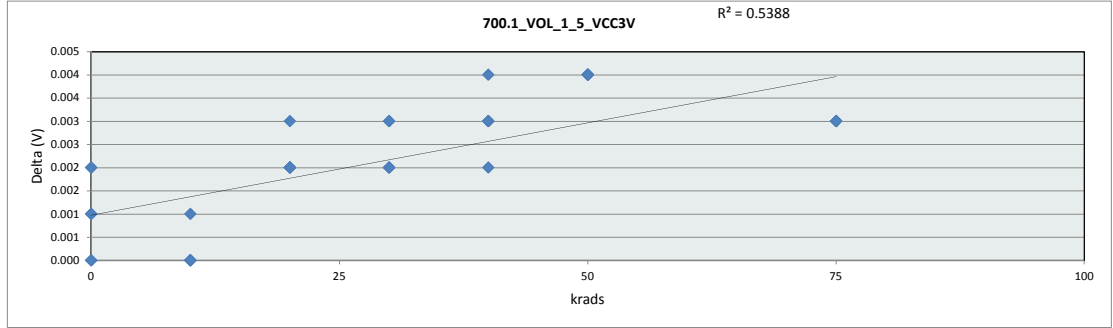
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.106	0.102	0.101	0.101	0.100	0.098	0.099
Average	0.107	0.103	0.102	0.102	0.101	0.099	0.100
Max	0.108	0.104	0.103	0.103	0.102	0.100	0.101
UL	0.380	0.380	0.380	0.380	0.380	0.380	0.380



TID 75k LDR Report
HVD233 Boac Teos

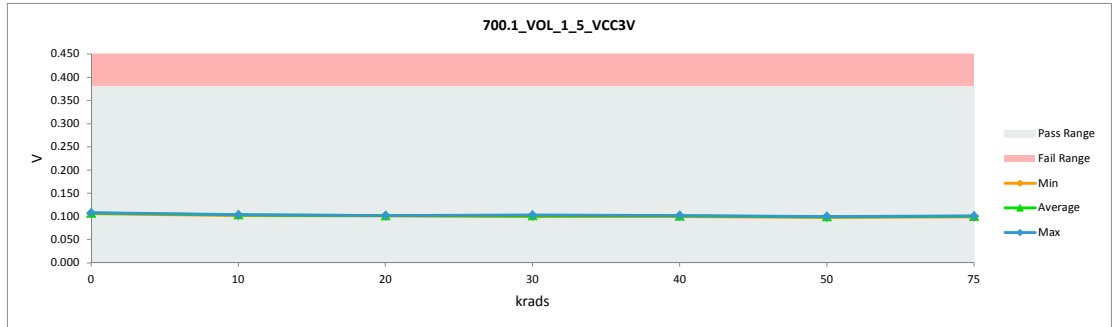
700.1_VOL_1_5_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.108	0.108	0.000
10	27_Unbias	0.104	0.104	0.000
10	28_Unbias	0.104	0.104	0.000
10	29_Unbias	0.103	0.103	0.000
10	30_Unbias	0.103	0.102	0.001
10	31_Unbias	0.104	0.104	0.000
0	2_corr	0.108	0.108	0.000
20	32_Unbias	0.105	0.102	0.003
20	33_Unbias	0.103	0.101	0.002
20	34_Unbias	0.104	0.102	0.002
20	35_Unbias	0.104	0.102	0.002
20	36_Unbias	0.104	0.102	0.002
0	2	0.108	0.106	0.002
30	37_Unbias	0.104	0.102	0.002
30	38_Unbias	0.103	0.101	0.002
30	39_Unbias	0.103	0.100	0.003
30	40_Unbias	0.105	0.103	0.002
30	41_Unbias	0.104	0.101	0.003
0	2_corr	0.108	0.106	0.002
40	42_Unbias	0.104	0.101	0.003
40	43_Unbias	0.104	0.100	0.004
40	44_Unbias	0.105	0.102	0.003
40	45_Unbias	0.103	0.100	0.003
40	46_Unbias	0.103	0.101	0.002
0	2	0.108	0.107	0.001
50	47_Unbias	0.104	0.100	0.004
50	48_Unbias	0.102	0.098	0.004
50	49_Unbias	0.103	0.099	0.004
50	50_Unbias	0.104	0.100	0.004
50	51_Unbias	0.103	0.099	0.004
0	2	0.108	0.107	0.001
75	47_Unbias	0.104	0.101	0.003
75	48_Unbias	0.102	0.099	0.003
75	49_Unbias	0.103	0.100	0.003
75	50_Unbias	0.104	0.101	0.003
75	51_Unbias	0.103	0.100	0.003
	Max	0.108	0.108	0.004
	Average	0.104	0.102	0.002
	Min	0.102	0.098	0.000
	Std Dev	0.002	0.003	0.001



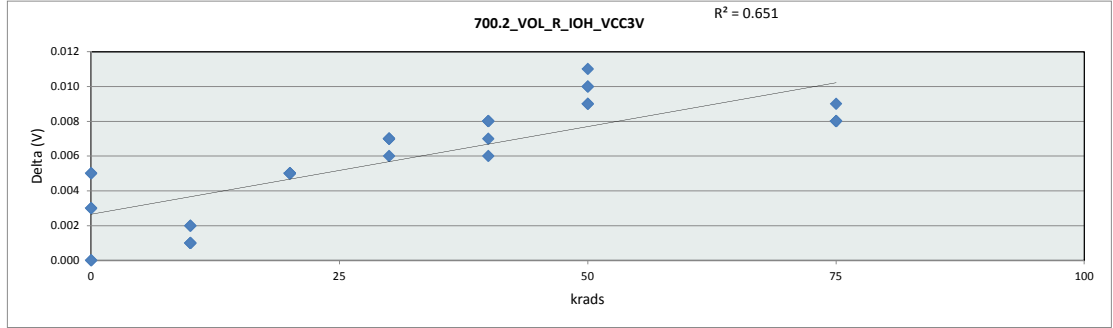
700.1_VOL_1_5_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.38	V
Min Limit	0	V

	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.106	0.102	0.101	0.100	0.100	0.098	0.099
Average	0.107	0.103	0.102	0.101	0.101	0.099	0.100
Max	0.108	0.104	0.102	0.103	0.102	0.100	0.101
UL	0.380	0.380	0.380	0.380	0.380	0.380	0.380

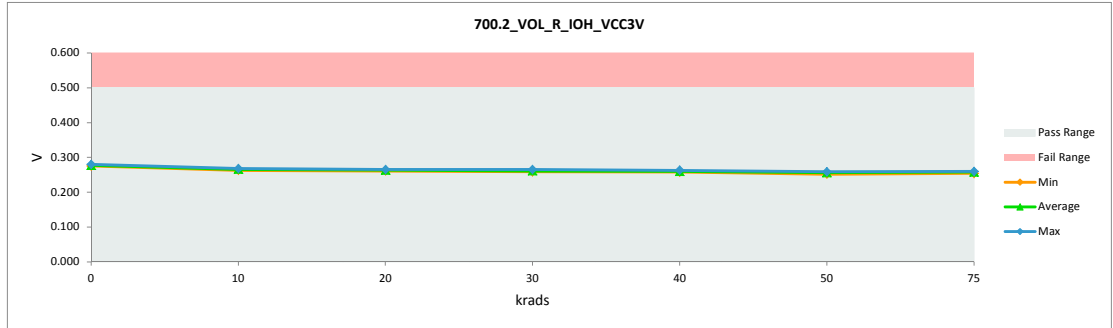


TID 75k LDR Report
HVD233 Boac Teos

700.2_VOL_R_IOH_VCC3V				
Test Site	Dallas, Tx	Dallas, Tx		
Tester	ETS	ETS		
Test Number	EF580300	EF580300		
Unit	V	V		
Max Limit	0.5	0.5		
Min Limit	0	0		
krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.280	0.280	0.000
10	27_Unbias	0.269	0.268	0.001
10	28_Unbias	0.269	0.267	0.002
10	29_Unbias	0.266	0.264	0.002
10	30_Unbias	0.264	0.263	0.001
10	31_Unbias	0.268	0.267	0.001
0	2_corr	0.280	0.280	0.000
20	32_Unbias	0.270	0.265	0.005
20	33_Unbias	0.266	0.261	0.005
20	34_Unbias	0.268	0.263	0.005
20	35_Unbias	0.269	0.264	0.005
20	36_Unbias	0.268	0.263	0.005
0	2	0.280	0.275	0.005
30	37_Unbias	0.269	0.262	0.007
30	38_Unbias	0.266	0.259	0.007
30	39_Unbias	0.265	0.259	0.006
30	40_Unbias	0.272	0.265	0.007
30	41_Unbias	0.267	0.260	0.007
0	2_corr	0.280	0.275	0.005
40	42_Unbias	0.268	0.260	0.008
40	43_Unbias	0.267	0.259	0.008
40	44_Unbias	0.271	0.263	0.008
40	45_Unbias	0.265	0.258	0.007
40	46_Unbias	0.266	0.260	0.006
0	2	0.280	0.277	0.003
50	47_Unbias	0.268	0.259	0.009
50	48_Unbias	0.262	0.252	0.010
50	49_Unbias	0.266	0.255	0.011
50	50_Unbias	0.268	0.258	0.010
50	51_Unbias	0.265	0.256	0.009
0	2	0.280	0.277	0.003
75	47_Unbias	0.268	0.260	0.008
75	48_Unbias	0.262	0.254	0.008
75	49_Unbias	0.266	0.257	0.009
75	50_Unbias	0.268	0.260	0.008
75	51_Unbias	0.265	0.257	0.008
	Max	0.280	0.280	0.011
	Average	0.269	0.263	0.006
	Min	0.262	0.252	0.000
	Std Dev	0.005	0.007	0.003



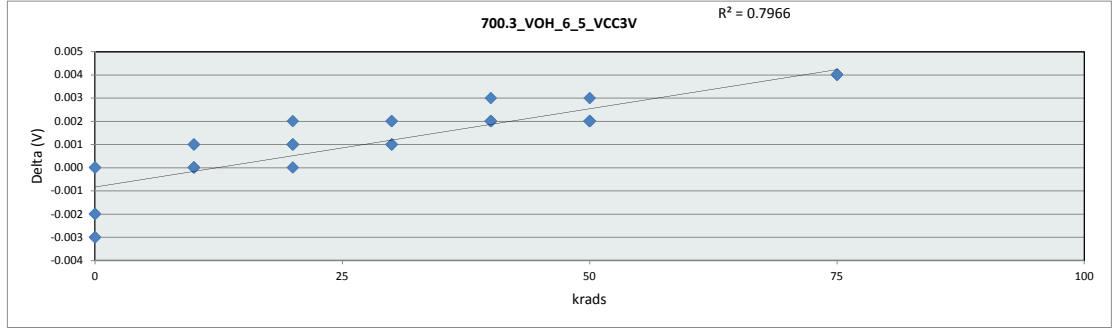
700.2_VOL_R_IOH_VCC3V							
Test Site	Dallas, Tx						
Tester	ETS						
Test Number	EF580300						
Max Limit	0.5	V					
Min Limit	0	V					
krads	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.275	0.263	0.261	0.259	0.258	0.252	0.254
Average	0.277	0.266	0.263	0.261	0.260	0.256	0.258
Max	0.280	0.268	0.265	0.265	0.263	0.259	0.260
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500



TID 75k LDR Report
HVD233 Boac Teos

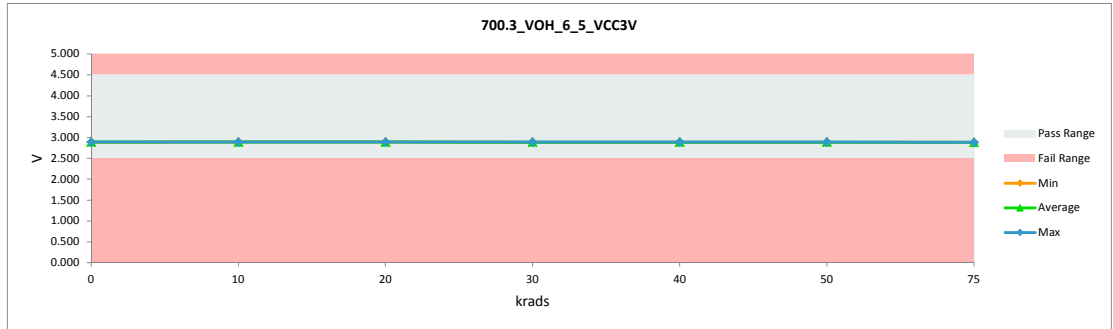
700.3_VOH_6_5_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	2.888	2.888	0.000
10	27_Unbias	2.890	2.890	0.000
10	28_Unbias	2.891	2.891	0.000
10	29_Unbias	2.890	2.890	0.000
10	30_Unbias	2.891	2.890	0.001
10	31_Unbias	2.891	2.890	0.001
0	2_corr	2.888	2.888	0.000
20	32_Unbias	2.890	2.889	0.001
20	33_Unbias	2.891	2.890	0.001
20	34_Unbias	2.891	2.889	0.002
20	35_Unbias	2.889	2.889	0.000
20	36_Unbias	2.890	2.889	0.001
0	2	2.888	2.891	-0.003
30	37_Unbias	2.890	2.889	0.001
30	38_Unbias	2.891	2.889	0.002
30	39_Unbias	2.890	2.888	0.002
30	40_Unbias	2.889	2.888	0.001
30	41_Unbias	2.891	2.890	0.001
0	2_corr	2.888	2.891	-0.003
40	42_Unbias	2.891	2.889	0.002
40	43_Unbias	2.891	2.889	0.002
40	44_Unbias	2.891	2.888	0.003
40	45_Unbias	2.891	2.889	0.002
40	46_Unbias	2.890	2.888	0.002
0	2	2.888	2.890	-0.002
50	47_Unbias	2.891	2.889	0.002
50	48_Unbias	2.891	2.889	0.002
50	49_Unbias	2.891	2.888	0.003
50	50_Unbias	2.891	2.889	0.002
50	51_Unbias	2.891	2.889	0.002
0	2	2.888	2.890	-0.002
75	47_Unbias	2.891	2.887	0.004
75	48_Unbias	2.891	2.887	0.004
75	49_Unbias	2.891	2.887	0.004
75	50_Unbias	2.891	2.887	0.004
75	51_Unbias	2.891	2.887	0.004
	Max	2.891	2.891	0.004
	Average	2.890	2.889	0.001
	Min	2.888	2.887	-0.003
	Std Dev	0.001	0.001	0.002



700.3_VOH_6_5_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	4.5	V
Min Limit	2.5	V

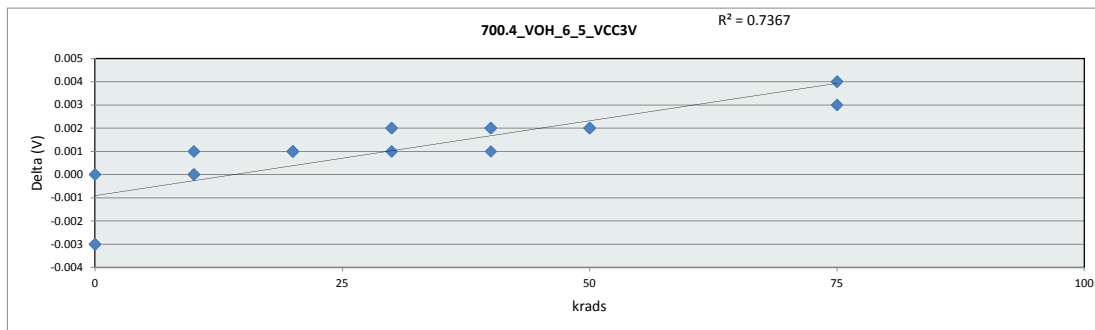
krams	0	10	20	30	40	50	75
LL	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Min	2.888	2.890	2.889	2.888	2.888	2.888	2.887
Average	2.890	2.890	2.889	2.889	2.889	2.889	2.887
Max	2.891	2.891	2.890	2.890	2.889	2.889	2.887
UL	4.500	4.500	4.500	4.500	4.500	4.500	4.500



TID 75k LDR Report
HVD233 Boac Teos

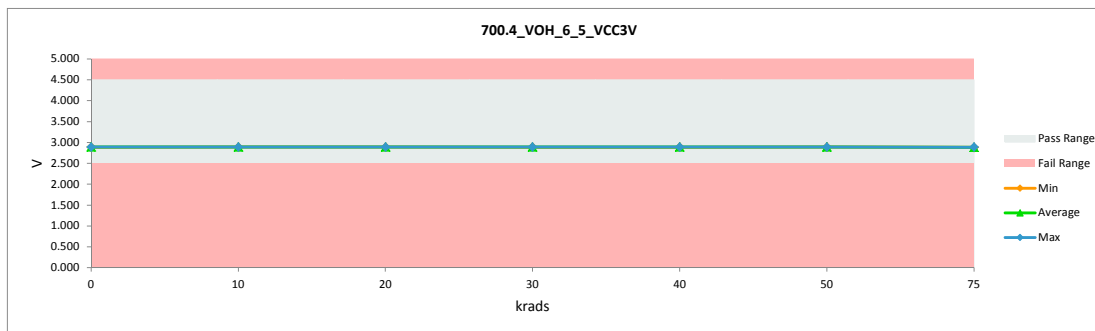
700.4_VOH_6_5_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	2.888	2.888	0.000
10	27_Unbias	2.891	2.890	0.001
10	28_Unbias	2.891	2.891	0.000
10	29_Unbias	2.891	2.890	0.001
10	30_Unbias	2.891	2.891	0.000
10	31_Unbias	2.891	2.891	0.000
0	2_corr	2.888	2.888	0.000
20	32_Unbias	2.890	2.889	0.001
20	33_Unbias	2.891	2.890	0.001
20	34_Unbias	2.891	2.890	0.001
20	35_Unbias	2.890	2.889	0.001
20	36_Unbias	2.891	2.890	0.001
0	2	2.888	2.891	-0.003
30	37_Unbias	2.890	2.889	0.001
30	38_Unbias	2.891	2.890	0.001
30	39_Unbias	2.890	2.888	0.002
30	40_Unbias	2.890	2.888	0.002
30	41_Unbias	2.892	2.890	0.002
0	2_corr	2.888	2.891	-0.003
40	42_Unbias	2.891	2.889	0.002
40	43_Unbias	2.891	2.889	0.002
40	44_Unbias	2.891	2.889	0.002
40	45_Unbias	2.891	2.890	0.001
40	46_Unbias	2.890	2.888	0.002
0	2	2.888	2.891	-0.003
50	47_Unbias	2.891	2.889	0.002
50	48_Unbias	2.891	2.889	0.002
50	49_Unbias	2.891	2.889	0.002
50	50_Unbias	2.891	2.889	0.002
50	51_Unbias	2.891	2.889	0.002
0	2	2.888	2.891	-0.003
75	47_Unbias	2.891	2.888	0.003
75	48_Unbias	2.891	2.888	0.003
75	49_Unbias	2.891	2.887	0.004
75	50_Unbias	2.891	2.887	0.004
75	51_Unbias	2.891	2.887	0.004
	Max	2.892	2.891	0.004
	Average	2.890	2.889	0.001
	Min	2.888	2.887	-0.003
	Std Dev	0.001	0.001	0.002



700.4_VOH_6_5_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	4.5	V
Min Limit	2.5	V

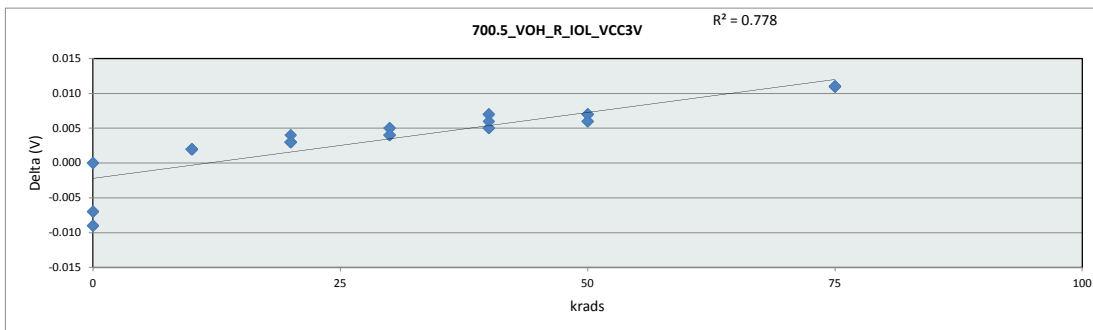
krams	0	10	20	30	40	50	75
LL	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Min	2.888	2.890	2.889	2.888	2.888	2.889	2.887
Average	2.890	2.891	2.890	2.889	2.889	2.889	2.887
Max	2.891	2.891	2.890	2.890	2.890	2.889	2.888
UL	4.500	4.500	4.500	4.500	4.500	4.500	4.500



TID 75k LDR Report
HVD233 Boac Teos

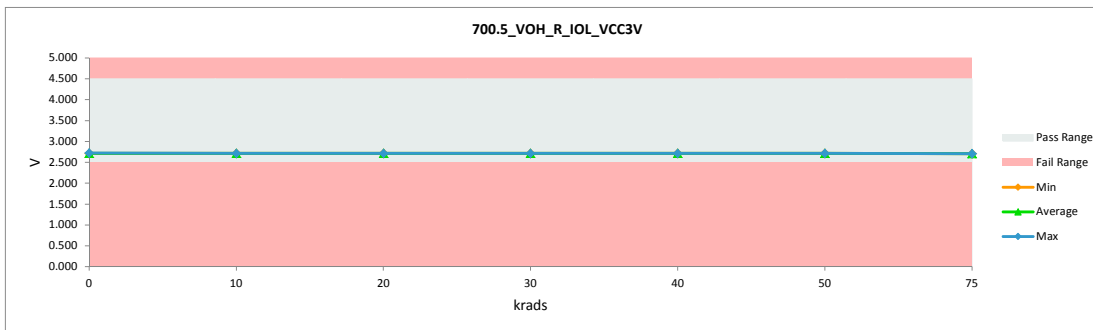
700.5_VOH_R_IOL_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	2.713	2.713	0.000
10	27_Unbias	2.719	2.717	0.002
10	28_Unbias	2.721	2.719	0.002
10	29_Unbias	2.719	2.717	0.002
10	30_Unbias	2.720	2.718	0.002
10	31_Unbias	2.720	2.718	0.002
0	2_corr	2.713	2.713	0.000
20	32_Unbias	2.719	2.715	0.004
20	33_Unbias	2.720	2.717	0.003
20	34_Unbias	2.719	2.716	0.003
20	35_Unbias	2.717	2.714	0.003
20	36_Unbias	2.719	2.716	0.003
0	2	2.713	2.722	-0.009
30	37_Unbias	2.719	2.714	0.005
30	38_Unbias	2.720	2.716	0.004
30	39_Unbias	2.717	2.713	0.004
30	40_Unbias	2.717	2.712	0.005
30	41_Unbias	2.722	2.718	0.004
0	2_corr	2.713	2.722	-0.009
40	42_Unbias	2.721	2.714	0.007
40	43_Unbias	2.721	2.714	0.007
40	44_Unbias	2.720	2.714	0.006
40	45_Unbias	2.721	2.716	0.005
40	46_Unbias	2.718	2.713	0.005
0	2	2.713	2.720	-0.007
50	47_Unbias	2.722	2.715	0.007
50	48_Unbias	2.721	2.715	0.006
50	49_Unbias	2.720	2.713	0.007
50	50_Unbias	2.721	2.714	0.007
50	51_Unbias	2.721	2.715	0.006
0	2	2.713	2.720	-0.007
75	47_Unbias	2.722	2.711	0.011
75	48_Unbias	2.721	2.710	0.011
75	49_Unbias	2.720	2.709	0.011
75	50_Unbias	2.721	2.710	0.011
75	51_Unbias	2.721	2.710	0.011
	Max	2.722	2.722	0.011
	Average	2.719	2.715	0.004
	Min	2.713	2.709	-0.009
	Std Dev	0.003	0.003	0.005



700.5_VOH_R_IOL_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	4.5	V
Min Limit	2.5	V

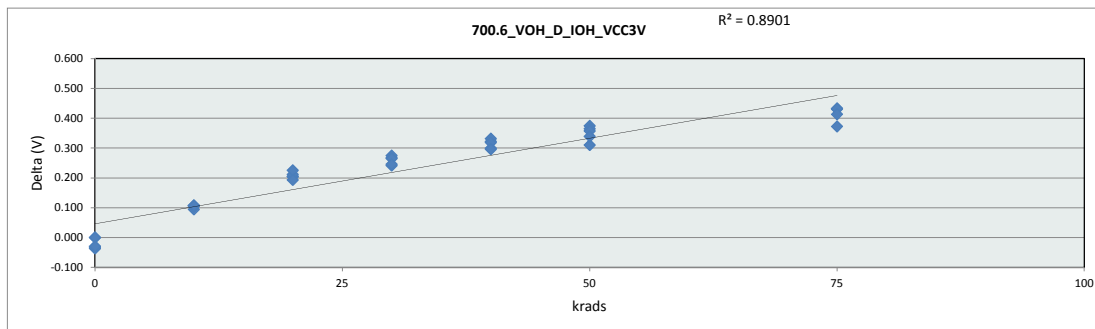
	0	10	20	30	40	50	75
LL	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Min	2.713	2.717	2.714	2.712	2.713	2.713	2.709
Average	2.718	2.718	2.716	2.715	2.714	2.714	2.710
Max	2.722	2.719	2.717	2.718	2.716	2.715	2.711
UL	4.500	4.500	4.500	4.500	4.500	4.500	4.500



TID 75k LDR Report
HVD233 Boac Teos

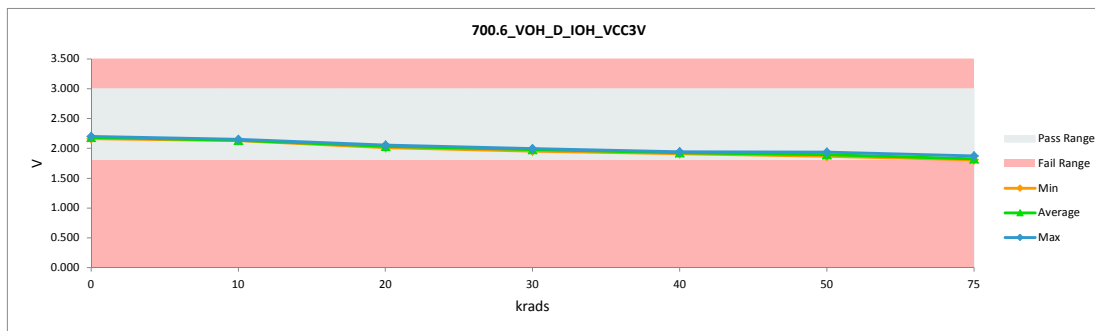
700.6_VOH_D_IOH_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3	3
Min Limit	1.8	1.8

krads	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	2.164	2.164	0.000
10	27_Unbias	2.239	2.132	0.107
10	28_Unbias	2.248	2.154	0.094
10	29_Unbias	2.242	2.137	0.105
10	30_Unbias	2.243	2.136	0.107
10	31_Unbias	2.239	2.133	0.106
0	2_corr	2.164	2.164	0.000
20	32_Unbias	2.243	2.039	0.204
20	33_Unbias	2.245	2.040	0.205
20	34_Unbias	2.236	2.025	0.211
20	35_Unbias	2.236	2.011	0.225
20	36_Unbias	2.247	2.054	0.193
0	2	2.164	2.200	-0.036
30	37_Unbias	2.237	1.970	0.267
30	38_Unbias	2.240	1.999	0.241
30	39_Unbias	2.231	1.956	0.275
30	40_Unbias	2.240	1.975	0.265
30	41_Unbias	2.242	1.996	0.246
0	2_corr	2.164	2.199	-0.035
40	42_Unbias	2.245	1.923	0.322
40	43_Unbias	2.242	1.910	0.332
40	44_Unbias	2.243	1.944	0.299
40	45_Unbias	2.232	1.913	0.319
40	46_Unbias	2.235	1.939	0.296
0	2	2.164	2.194	-0.030
50	47_Unbias	2.246	1.936	0.310
50	48_Unbias	2.243	1.868	0.375
50	49_Unbias	2.245	1.880	0.365
50	50_Unbias	2.240	1.883	0.357
50	51_Unbias	2.241	1.902	0.339
0	2	2.164	2.194	-0.030
75	47_Unbias	2.246	1.874	0.372
75	48_Unbias	2.243	1.810	0.433
75	49_Unbias	2.245	1.815	0.430
75	50_Unbias	2.240	1.808	0.432
75	51_Unbias	2.241	1.828	0.413
	Max	2.248	2.200	0.433
	Average	2.228	2.003	0.225
	Min	2.164	1.808	-0.036
	Std Dev	0.029	0.126	0.147



700.6_VOH_D_IOH_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3	V
Min Limit	1.8	V

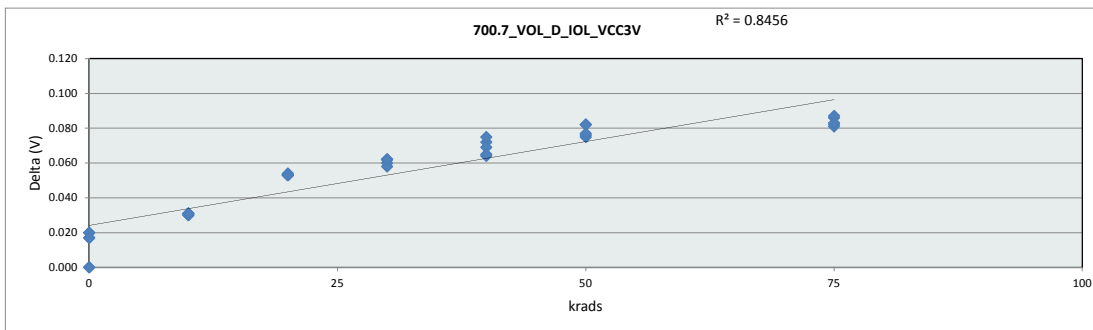
	0	10	20	30	40	50	75
LL	1.800	1.800	1.800	1.800	1.800	1.800	1.800
Min	2.164	2.132	2.011	1.956	1.910	1.868	1.808
Average	2.186	2.138	2.034	1.979	1.926	1.894	1.827
Max	2.200	2.154	2.054	1.999	1.944	1.936	1.874
UL	3.000	3.000	3.000	3.000	3.000	3.000	3.000



TID 75k LDR Report
HVD233 Boac Teos

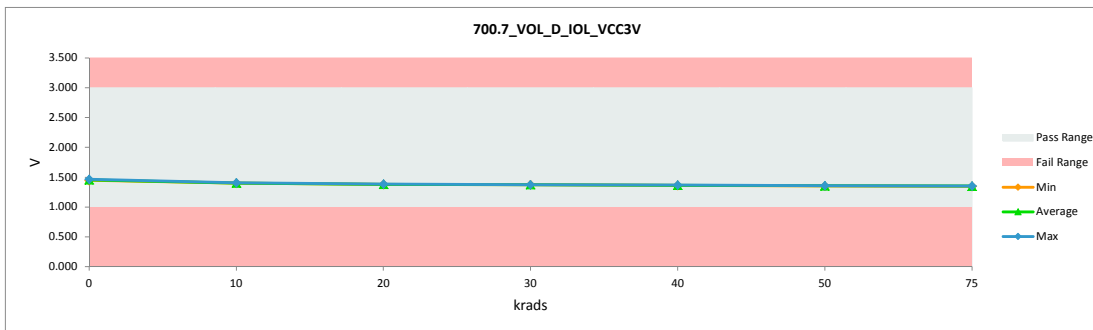
700.7_VOL_D_IOL_VCC3V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3	3
Min Limit	1	1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.467	1.467	0.000
10	27_Unbias	1.436	1.406	0.030
10	28_Unbias	1.433	1.403	0.030
10	29_Unbias	1.433	1.402	0.031
10	30_Unbias	1.432	1.401	0.031
10	31_Unbias	1.434	1.403	0.031
0	2_corr	1.467	1.467	0.000
20	32_Unbias	1.438	1.384	0.054
20	33_Unbias	1.432	1.379	0.053
20	34_Unbias	1.437	1.384	0.053
20	35_Unbias	1.436	1.383	0.053
20	36_Unbias	1.435	1.382	0.053
0	2	1.467	1.447	0.020
30	37_Unbias	1.436	1.374	0.062
30	38_Unbias	1.435	1.375	0.060
30	39_Unbias	1.433	1.375	0.058
30	40_Unbias	1.435	1.373	0.062
30	41_Unbias	1.437	1.375	0.062
0	2_corr	1.467	1.447	0.020
40	42_Unbias	1.434	1.362	0.072
40	43_Unbias	1.437	1.362	0.075
40	44_Unbias	1.437	1.368	0.069
40	45_Unbias	1.433	1.369	0.064
40	46_Unbias	1.433	1.368	0.065
0	2	1.467	1.450	0.017
50	47_Unbias	1.436	1.361	0.075
50	48_Unbias	1.433	1.351	0.082
50	49_Unbias	1.434	1.352	0.082
50	50_Unbias	1.435	1.359	0.076
50	51_Unbias	1.435	1.358	0.077
0	2	1.467	1.450	0.017
75	47_Unbias	1.436	1.355	0.081
75	48_Unbias	1.433	1.347	0.086
75	49_Unbias	1.434	1.347	0.087
75	50_Unbias	1.435	1.353	0.082
75	51_Unbias	1.435	1.352	0.083
	Max	1.467	1.467	0.087
	Average	1.440	1.386	0.054
	Min	1.432	1.347	0.000
	Std Dev	0.012	0.035	0.025



700.7_VOL_D_IOL_VCC3V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3	V
Min Limit	1	V

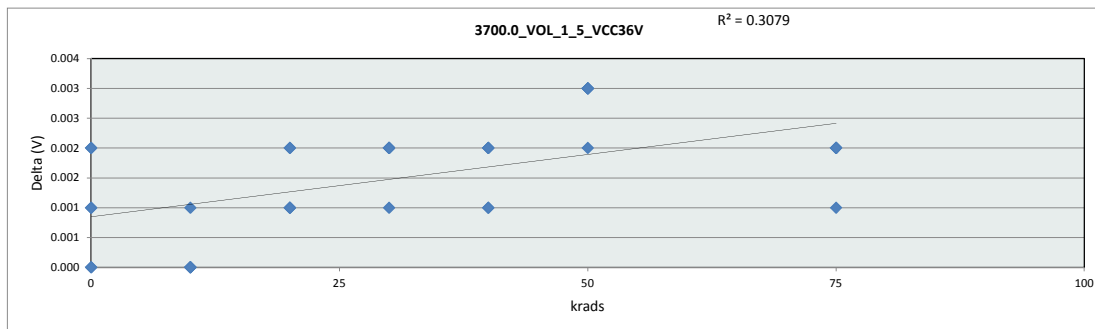
	0	10	20	30	40	50	75
LL	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Min	1.447	1.401	1.379	1.373	1.362	1.351	1.347
Average	1.455	1.403	1.382	1.374	1.366	1.356	1.351
Max	1.467	1.406	1.384	1.375	1.369	1.361	1.355
UL	3.000	3.000	3.000	3.000	3.000	3.000	3.000



TID 75k LDR Report HVD233 Boac Teos

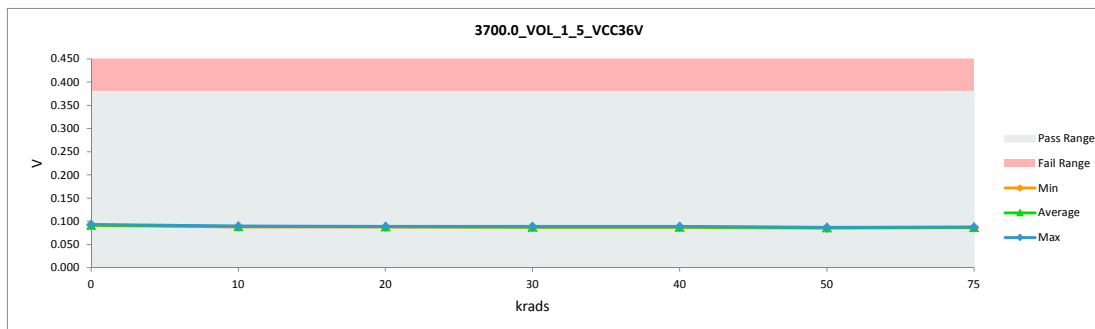
3700.0_VOL_1_5_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	0.093	0.093	0.000
10	27_Unbias	0.090	0.090	0.000
10	28_Unbias	0.090	0.090	0.000
10	29_Unbias	0.089	0.089	0.000
10	30_Unbias	0.088	0.088	0.000
10	31_Unbias	0.090	0.089	0.001
0	2_corr	0.093	0.093	0.000
20	32_Unbias	0.090	0.089	0.001
20	33_Unbias	0.089	0.088	0.001
20	34_Unbias	0.090	0.088	0.002
20	35_Unbias	0.090	0.089	0.001
20	36_Unbias	0.090	0.088	0.002
0	2	0.093	0.091	0.002
30	37_Unbias	0.090	0.088	0.002
30	38_Unbias	0.089	0.087	0.002
30	39_Unbias	0.089	0.087	0.002
30	40_Unbias	0.091	0.089	0.002
30	41_Unbias	0.089	0.088	0.001
0	2_corr	0.093	0.091	0.002
40	42_Unbias	0.090	0.088	0.002
40	43_Unbias	0.089	0.087	0.002
40	44_Unbias	0.090	0.089	0.001
40	45_Unbias	0.088	0.087	0.001
40	46_Unbias	0.089	0.087	0.002
0	2	0.093	0.092	0.001
50	47_Unbias	0.089	0.087	0.002
50	48_Unbias	0.088	0.085	0.003
50	49_Unbias	0.089	0.086	0.003
50	50_Unbias	0.090	0.087	0.003
50	51_Unbias	0.089	0.086	0.003
0	2	0.093	0.092	0.001
75	47_Unbias	0.089	0.088	0.001
75	48_Unbias	0.088	0.086	0.002
75	49_Unbias	0.089	0.087	0.002
75	50_Unbias	0.090	0.088	0.002
75	51_Unbias	0.089	0.087	0.002
	Max	0.093	0.093	0.003
	Average	0.090	0.088	0.002
	Min	0.088	0.085	0.000
	Std Dev	0.002	0.002	0.001



3700.0_VOL_1_5_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.38	V
Min Limit	0	V

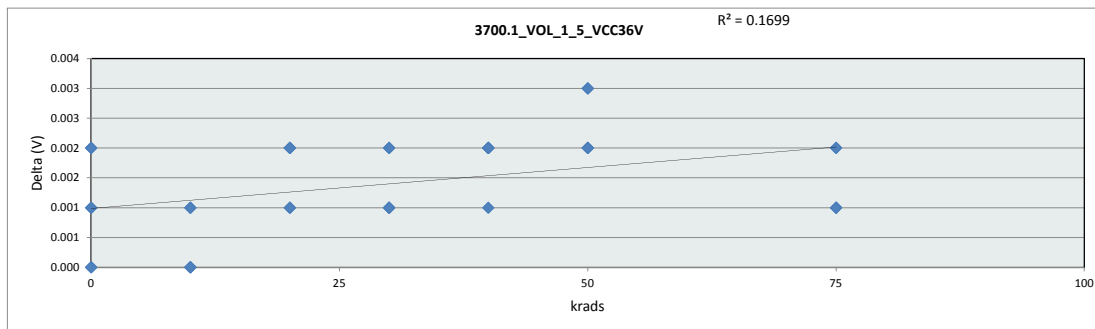
krams	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.091	0.088	0.088	0.087	0.087	0.085	0.086
Average	0.092	0.089	0.088	0.088	0.088	0.086	0.087
Max	0.093	0.090	0.089	0.089	0.089	0.087	0.088
UL	0.380	0.380	0.380	0.380	0.380	0.380	0.380



TID 75k LDR Report HVD233 Boac Teos

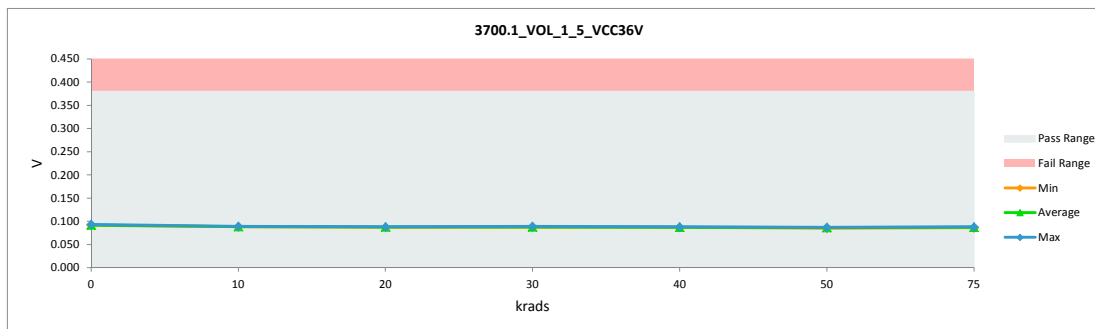
3700.1_VOL_1_5_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	0.38	0.38
Min Limit	0	0

krams	Serial #	Prerad Cu Teos	ost_75kLDR_Unbia	Delta
0	2_corr	0.093	0.093	0.000
10	27_Unbias	0.090	0.089	0.001
10	28_Unbias	0.089	0.089	0.000
10	29_Unbias	0.089	0.088	0.001
10	30_Unbias	0.088	0.088	0.000
10	31_Unbias	0.089	0.089	0.000
0	2_corr	0.093	0.093	0.000
20	32_Unbias	0.090	0.088	0.002
20	33_Unbias	0.089	0.087	0.002
20	34_Unbias	0.089	0.088	0.001
20	35_Unbias	0.090	0.088	0.002
20	36_Unbias	0.089	0.088	0.001
0	2	0.093	0.091	0.002
30	37_Unbias	0.089	0.088	0.001
30	38_Unbias	0.089	0.087	0.002
30	39_Unbias	0.088	0.087	0.001
30	40_Unbias	0.090	0.089	0.001
30	41_Unbias	0.089	0.087	0.002
0	2_corr	0.093	0.091	0.002
40	42_Unbias	0.089	0.087	0.002
40	43_Unbias	0.089	0.087	0.002
40	44_Unbias	0.090	0.088	0.002
40	45_Unbias	0.088	0.087	0.001
40	46_Unbias	0.089	0.087	0.002
0	2	0.093	0.092	0.001
50	47_Unbias	0.089	0.087	0.002
50	48_Unbias	0.088	0.085	0.003
50	49_Unbias	0.089	0.086	0.003
50	50_Unbias	0.089	0.087	0.002
50	51_Unbias	0.088	0.086	0.002
0	2	0.093	0.092	0.001
75	47_Unbias	0.089	0.088	0.001
75	48_Unbias	0.088	0.086	0.002
75	49_Unbias	0.089	0.087	0.002
75	50_Unbias	0.089	0.088	0.001
75	51_Unbias	0.088	0.087	0.001
	Max	0.093	0.093	0.003
	Average	0.090	0.088	0.001
	Min	0.088	0.085	0.000
	Std Dev	0.002	0.002	0.001



3700.1_VOL_1_5_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.38	V
Min Limit	0	V

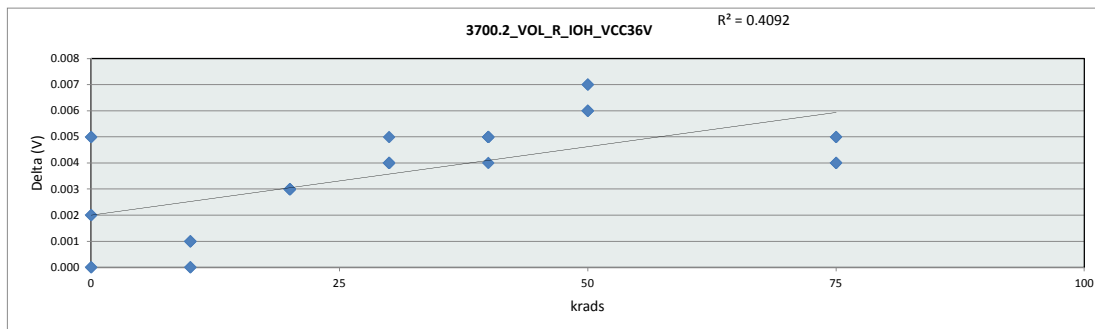
krams	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.091	0.088	0.087	0.087	0.087	0.085	0.086
Average	0.092	0.089	0.088	0.088	0.087	0.086	0.087
Max	0.093	0.089	0.088	0.089	0.088	0.087	0.088
UL	0.380	0.380	0.380	0.380	0.380	0.380	0.380



TID 75k LDR Report
HVD233 Boac Teos

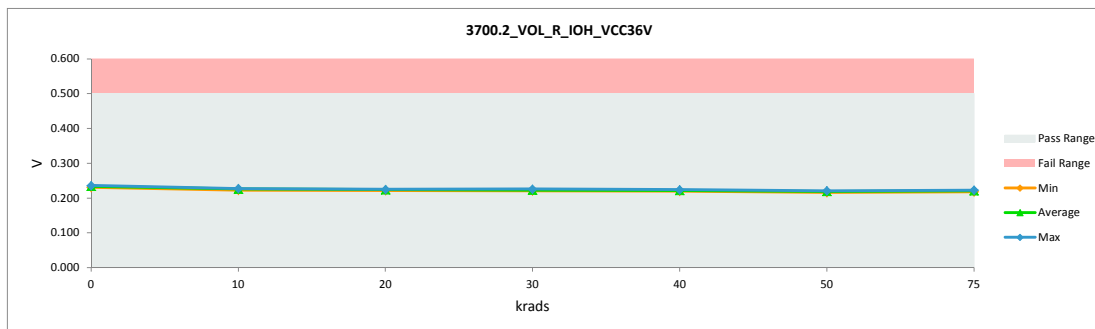
3700.2_VOL_R_IOH_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	0.5	0.5
Min Limit	0	0

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	0.236	0.236	0.000
10	27_Unbias	0.228	0.227	0.001
10	28_Unbias	0.228	0.227	0.001
10	29_Unbias	0.225	0.225	0.000
10	30_Unbias	0.224	0.223	0.001
10	31_Unbias	0.227	0.227	0.000
0	2_corr	0.236	0.236	0.000
20	32_Unbias	0.228	0.225	0.003
20	33_Unbias	0.225	0.222	0.003
20	34_Unbias	0.227	0.224	0.003
20	35_Unbias	0.228	0.225	0.003
20	36_Unbias	0.227	0.224	0.003
0	2	0.236	0.231	0.005
30	37_Unbias	0.228	0.223	0.005
30	38_Unbias	0.225	0.221	0.004
30	39_Unbias	0.225	0.221	0.004
30	40_Unbias	0.230	0.226	0.004
30	41_Unbias	0.226	0.222	0.004
0	2_corr	0.236	0.231	0.005
40	42_Unbias	0.227	0.222	0.005
40	43_Unbias	0.226	0.221	0.005
40	44_Unbias	0.229	0.224	0.005
40	45_Unbias	0.224	0.220	0.004
40	46_Unbias	0.226	0.221	0.005
0	2	0.236	0.234	0.002
50	47_Unbias	0.227	0.221	0.006
50	48_Unbias	0.223	0.216	0.007
50	49_Unbias	0.225	0.218	0.007
50	50_Unbias	0.227	0.221	0.006
50	51_Unbias	0.225	0.219	0.006
0	2	0.236	0.234	0.002
75	47_Unbias	0.227	0.223	0.004
75	48_Unbias	0.223	0.218	0.005
75	49_Unbias	0.225	0.220	0.005
75	50_Unbias	0.227	0.223	0.004
75	51_Unbias	0.225	0.221	0.004
	Max	0.236	0.236	0.007
	Average	0.228	0.224	0.004
	Min	0.223	0.216	0.000
	Std Dev	0.004	0.005	0.002



3700.2_VOL_R_IOH_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	0.5	V
Min Limit	0	V

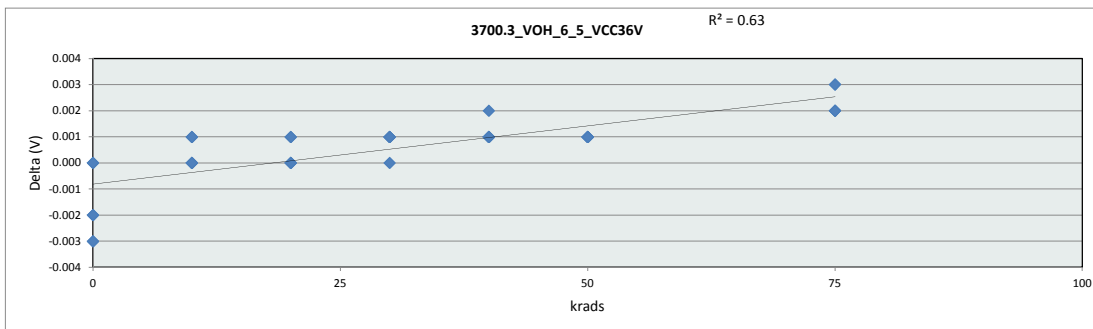
	0	10	20	30	40	50	75
LL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Min	0.231	0.223	0.222	0.221	0.220	0.216	0.218
Average	0.234	0.226	0.224	0.223	0.222	0.219	0.221
Max	0.236	0.227	0.225	0.226	0.224	0.221	0.223
UL	0.500	0.500	0.500	0.500	0.500	0.500	0.500



TID 75k LDR Report HVD233 Boac Teos

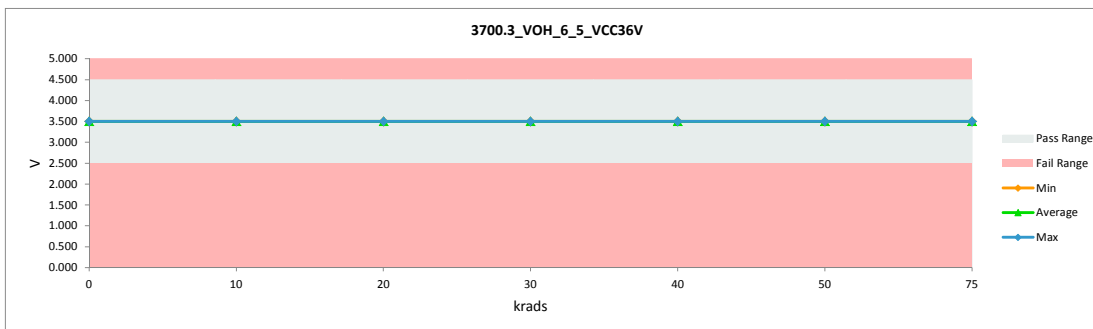
3700.3_VOH_6_5_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.502	3.502	0.000
10	27_Unbias	3.505	3.504	0.001
10	28_Unbias	3.505	3.505	0.000
10	29_Unbias	3.505	3.504	0.001
10	30_Unbias	3.505	3.505	0.000
10	31_Unbias	3.505	3.505	0.000
0	2_corr	3.502	3.502	0.000
20	32_Unbias	3.504	3.504	0.000
20	33_Unbias	3.505	3.505	0.000
20	34_Unbias	3.505	3.504	0.001
20	35_Unbias	3.504	3.503	0.001
20	36_Unbias	3.504	3.504	0.000
0	2	3.502	3.505	-0.003
30	37_Unbias	3.504	3.503	0.001
30	38_Unbias	3.505	3.504	0.001
30	39_Unbias	3.504	3.503	0.001
30	40_Unbias	3.504	3.503	0.001
30	41_Unbias	3.505	3.505	0.000
0	2_corr	3.502	3.505	-0.003
40	42_Unbias	3.505	3.504	0.001
40	43_Unbias	3.505	3.504	0.001
40	44_Unbias	3.505	3.503	0.002
40	45_Unbias	3.505	3.504	0.001
40	46_Unbias	3.504	3.503	0.001
0	2	3.502	3.504	-0.002
50	47_Unbias	3.505	3.504	0.001
50	48_Unbias	3.505	3.504	0.001
50	49_Unbias	3.505	3.504	0.001
50	50_Unbias	3.505	3.504	0.001
50	51_Unbias	3.505	3.504	0.001
0	2	3.502	3.504	-0.002
75	47_Unbias	3.505	3.503	0.002
75	48_Unbias	3.505	3.503	0.002
75	49_Unbias	3.505	3.502	0.003
75	50_Unbias	3.505	3.503	0.002
75	51_Unbias	3.505	3.502	0.003
	Max	3.505	3.505	0.003
	Average	3.504	3.504	0.001
	Min	3.502	3.502	-0.003
	Std Dev	0.001	0.001	0.001



3700.3_VOH_6_5_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	4.5	V
Min Limit	2.5	V

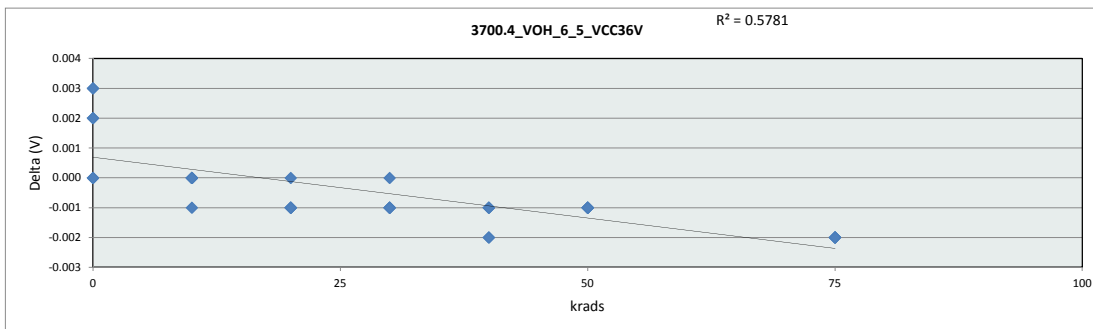
	0	10	20	30	40	50	75
LL	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Min	3.502	3.504	3.503	3.503	3.503	3.504	3.502
Average	3.504	3.505	3.504	3.504	3.504	3.504	3.503
Max	3.505	3.505	3.505	3.505	3.504	3.504	3.503
UL	4.500	4.500	4.500	4.500	4.500	4.500	4.500



TID 75k LDR Report
HVD233 Boac Teos

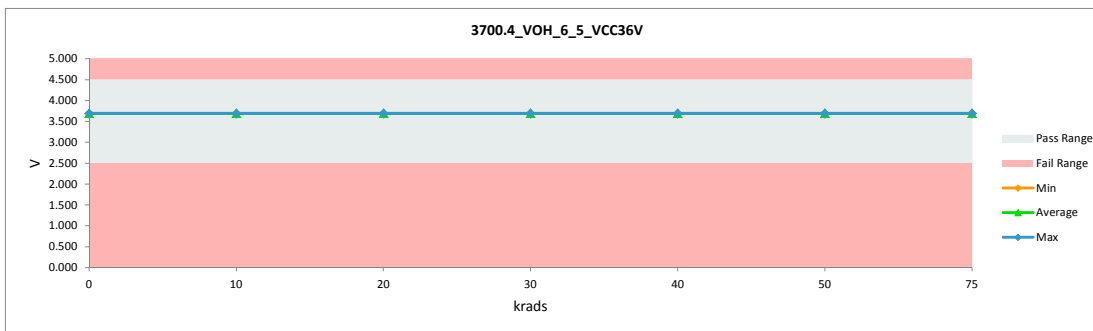
3700.4_VOH_6_5_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.694	3.694	0.000
10	27_Unbias	3.693	3.693	0.000
10	28_Unbias	3.692	3.693	-0.001
10	29_Unbias	3.693	3.693	0.000
10	30_Unbias	3.693	3.693	0.000
10	31_Unbias	3.693	3.693	0.000
0	2_corr	3.694	3.694	0.000
20	32_Unbias	3.693	3.694	-0.001
20	33_Unbias	3.692	3.693	-0.001
20	34_Unbias	3.693	3.694	-0.001
20	35_Unbias	3.694	3.694	0.000
20	36_Unbias	3.693	3.694	-0.001
0	2	3.694	3.691	0.003
30	37_Unbias	3.693	3.694	-0.001
30	38_Unbias	3.692	3.693	-0.001
30	39_Unbias	3.693	3.694	-0.001
30	40_Unbias	3.694	3.694	0.000
30	41_Unbias	3.692	3.693	-0.001
0	2_corr	3.694	3.691	0.003
40	42_Unbias	3.692	3.694	-0.002
40	43_Unbias	3.692	3.694	-0.002
40	44_Unbias	3.693	3.694	-0.001
40	45_Unbias	3.692	3.693	-0.001
40	46_Unbias	3.693	3.694	-0.001
0	2	3.694	3.692	0.002
50	47_Unbias	3.692	3.693	-0.001
50	48_Unbias	3.692	3.693	-0.001
50	49_Unbias	3.693	3.694	-0.001
50	50_Unbias	3.692	3.693	-0.001
50	51_Unbias	3.693	3.694	-0.001
0	2	3.694	3.692	0.002
75	47_Unbias	3.692	3.694	-0.002
75	48_Unbias	3.692	3.694	-0.002
75	49_Unbias	3.693	3.695	-0.002
75	50_Unbias	3.692	3.694	-0.002
75	51_Unbias	3.693	3.695	-0.002
	Max	3.694	3.695	0.003
	Average	3.693	3.693	-0.001
	Min	3.692	3.691	-0.002
	Std Dev	0.001	0.001	0.001



3700.4_VOH_6_5_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	4.5	V
Min Limit	2.5	V

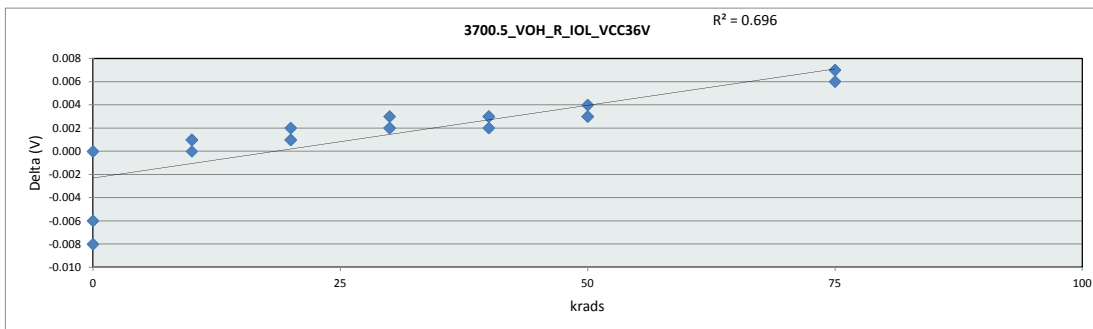
	0	10	20	30	40	50	75
LL	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Min	3.691	3.693	3.693	3.693	3.693	3.693	3.694
Average	3.692	3.693	3.694	3.694	3.694	3.693	3.694
Max	3.694	3.693	3.694	3.694	3.694	3.694	3.695
UL	4.500	4.500	4.500	4.500	4.500	4.500	4.500



TID 75k LDR Report
HVD233 Boac Teos

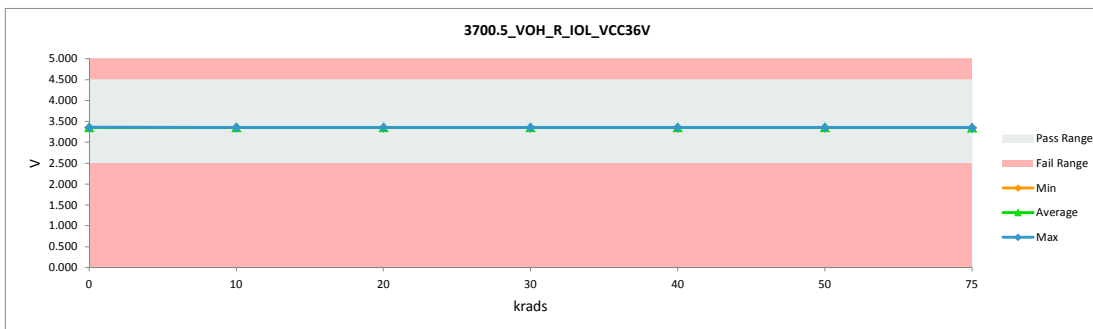
3700.5_VOH_R_IOL_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	4.5	4.5
Min Limit	2.5	2.5

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	3.352	3.352	0.000
10	27_Unbias	3.358	3.357	0.001
10	28_Unbias	3.359	3.358	0.001
10	29_Unbias	3.358	3.357	0.001
10	30_Unbias	3.359	3.358	0.001
10	31_Unbias	3.358	3.358	0.000
0	2_corr	3.352	3.352	0.000
20	32_Unbias	3.357	3.356	0.001
20	33_Unbias	3.359	3.357	0.002
20	34_Unbias	3.358	3.357	0.001
20	35_Unbias	3.356	3.355	0.001
20	36_Unbias	3.358	3.356	0.002
0	2	3.352	3.360	-0.008
30	37_Unbias	3.358	3.355	0.003
30	38_Unbias	3.359	3.357	0.002
30	39_Unbias	3.357	3.354	0.003
30	40_Unbias	3.356	3.354	0.002
30	41_Unbias	3.360	3.358	0.002
0	2_corr	3.352	3.360	-0.008
40	42_Unbias	3.359	3.356	0.003
40	43_Unbias	3.359	3.356	0.003
40	44_Unbias	3.358	3.355	0.003
40	45_Unbias	3.359	3.357	0.002
40	46_Unbias	3.357	3.355	0.002
0	2	3.352	3.358	-0.006
50	47_Unbias	3.360	3.357	0.003
50	48_Unbias	3.360	3.356	0.004
50	49_Unbias	3.359	3.355	0.004
50	50_Unbias	3.359	3.356	0.003
50	51_Unbias	3.359	3.356	0.003
0	2	3.352	3.358	-0.006
75	47_Unbias	3.360	3.353	0.007
75	48_Unbias	3.360	3.353	0.007
75	49_Unbias	3.359	3.352	0.007
75	50_Unbias	3.359	3.353	0.006
75	51_Unbias	3.359	3.353	0.006
	Max	3.360	3.360	0.007
	Average	3.357	3.356	0.002
	Min	3.352	3.352	-0.008
	Std Dev	0.003	0.002	0.004



3700.5_VOH_R_IOL_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	4.5	V
Min Limit	2.5	V

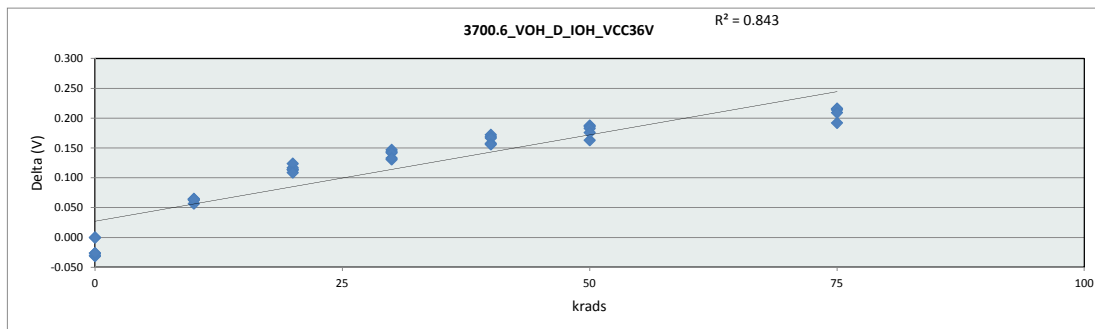
krads	0	10	20	30	40	50	75
LL	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Min	3.352	3.357	3.355	3.354	3.355	3.355	3.352
Average	3.357	3.358	3.356	3.356	3.356	3.356	3.353
Max	3.360	3.358	3.357	3.358	3.357	3.357	3.353
UL	4.500	4.500	4.500	4.500	4.500	4.500	4.500



TID 75k LDR Report
HVD233 Boac Teos

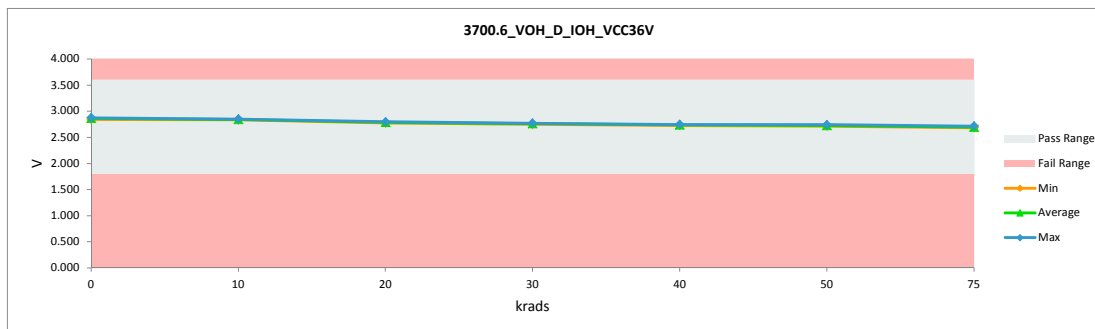
3700.6_VOH_D_IOH_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.6	3.6
Min Limit	1.8	1.8

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	2.844	2.844	0.000
10	27_Unbias	2.901	2.836	0.065
10	28_Unbias	2.908	2.851	0.057
10	29_Unbias	2.904	2.841	0.063
10	30_Unbias	2.906	2.842	0.064
10	31_Unbias	2.902	2.838	0.064
0	2_corr	2.844	2.844	0.000
20	32_Unbias	2.904	2.790	0.114
20	33_Unbias	2.907	2.793	0.114
20	34_Unbias	2.899	2.782	0.117
20	35_Unbias	2.900	2.776	0.124
20	36_Unbias	2.908	2.799	0.109
0	2	2.844	2.875	-0.031
30	37_Unbias	2.901	2.757	0.144
30	38_Unbias	2.902	2.771	0.131
30	39_Unbias	2.897	2.750	0.147
30	40_Unbias	2.902	2.760	0.142
30	41_Unbias	2.903	2.770	0.133
0	2_corr	2.844	2.874	-0.030
40	42_Unbias	2.907	2.738	0.169
40	43_Unbias	2.903	2.731	0.172
40	44_Unbias	2.905	2.747	0.158
40	45_Unbias	2.896	2.729	0.167
40	46_Unbias	2.899	2.743	0.156
0	2	2.844	2.870	-0.026
50	47_Unbias	2.907	2.744	0.163
50	48_Unbias	2.905	2.717	0.188
50	49_Unbias	2.907	2.721	0.186
50	50_Unbias	2.902	2.719	0.183
50	51_Unbias	2.903	2.727	0.176
0	2	2.844	2.870	-0.026
75	47_Unbias	2.907	2.715	0.192
75	48_Unbias	2.905	2.691	0.214
75	49_Unbias	2.907	2.692	0.215
75	50_Unbias	2.902	2.686	0.216
75	51_Unbias	2.903	2.694	0.209
	Max	2.908	2.875	0.216
	Average	2.894	2.776	0.118
	Min	2.844	2.686	-0.031
	Std Dev	0.023	0.060	0.076



3700.6_VOH_D_IOH_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3.6 V	
Min Limit	1.8 V	

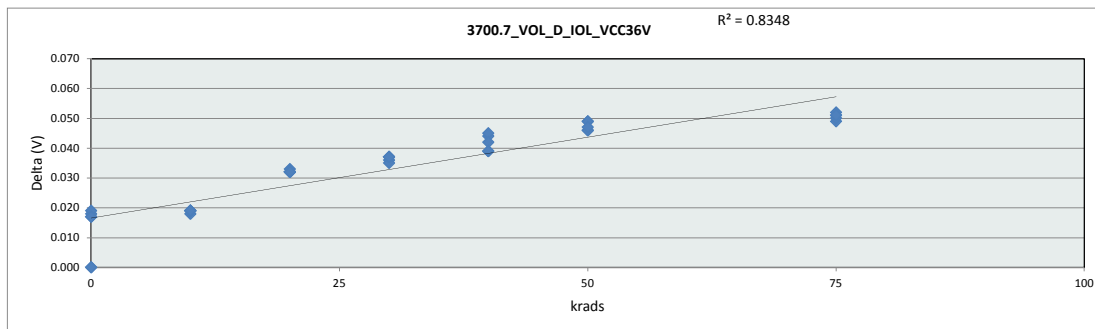
	0	10	20	30	40	50	75
LL	1.800	1.800	1.800	1.800	1.800	1.800	1.800
Min	2.844	2.836	2.776	2.750	2.729	2.717	2.686
Average	2.863	2.842	2.788	2.762	2.738	2.726	2.696
Max	2.875	2.851	2.799	2.771	2.747	2.744	2.715
UL	3.600	3.600	3.600	3.600	3.600	3.600	3.600



TID 75k LDR Report HVD233 Boac Teos

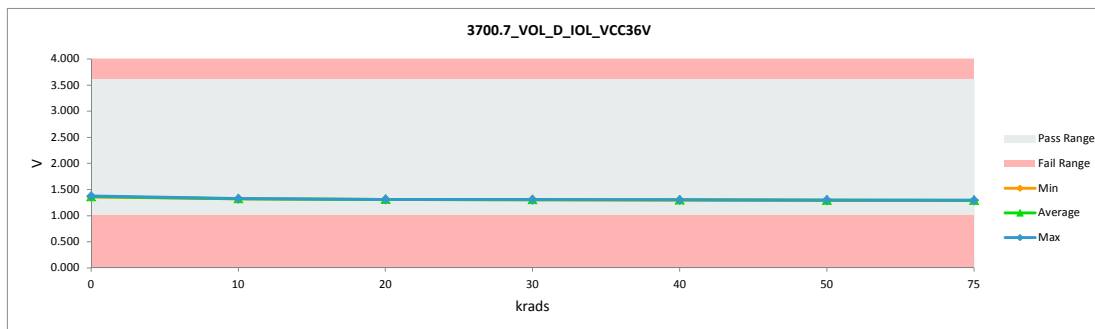
3700.7_VOL_D_IOL_VCC36V		
Test Site	Dallas, Tx	Dallas, Tx
Tester	ETS	ETS
Test Number	EF580300	EF580300
Unit	V	V
Max Limit	3.6	3.6
Min Limit	1	1

krads	Serial #	Prerad Cu Teos	Post_75kLDR_Unbia	Delta
0	2_corr	1.376	1.376	0.000
10	27_Unbias	1.345	1.326	0.019
10	28_Unbias	1.342	1.324	0.018
10	29_Unbias	1.342	1.323	0.019
10	30_Unbias	1.341	1.322	0.019
10	31_Unbias	1.342	1.323	0.019
0	2_corr	1.376	1.376	0.000
20	32_Unbias	1.346	1.313	0.033
20	33_Unbias	1.341	1.309	0.032
20	34_Unbias	1.345	1.313	0.032
20	35_Unbias	1.344	1.312	0.032
20	36_Unbias	1.343	1.311	0.032
0	2	1.376	1.358	0.018
30	37_Unbias	1.344	1.307	0.037
30	38_Unbias	1.344	1.308	0.036
30	39_Unbias	1.341	1.306	0.035
30	40_Unbias	1.343	1.306	0.037
30	41_Unbias	1.345	1.308	0.037
0	2_corr	1.376	1.357	0.019
40	42_Unbias	1.343	1.299	0.044
40	43_Unbias	1.345	1.300	0.045
40	44_Unbias	1.346	1.304	0.042
40	45_Unbias	1.342	1.303	0.039
40	46_Unbias	1.341	1.302	0.039
0	2	1.376	1.359	0.017
50	47_Unbias	1.345	1.299	0.046
50	48_Unbias	1.341	1.292	0.049
50	49_Unbias	1.342	1.293	0.049
50	50_Unbias	1.344	1.298	0.046
50	51_Unbias	1.344	1.297	0.047
0	2	1.376	1.359	0.017
75	47_Unbias	1.345	1.296	0.049
75	48_Unbias	1.341	1.290	0.051
75	49_Unbias	1.342	1.290	0.052
75	50_Unbias	1.344	1.294	0.050
75	51_Unbias	1.344	1.293	0.051
	Max	1.376	1.376	0.052
	Average	1.349	1.315	0.034
	Min	1.341	1.290	0.000
	Std Dev	0.012	0.025	0.014



3700.7_VOL_D_IOL_VCC36V		
Test Site	Dallas, Tx	
Tester	ETS	
Test Number	EF580300	
Max Limit	3.6	V
Min Limit	1	V

	0	10	20	30	40	50	75
LL	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Min	1.357	1.322	1.309	1.306	1.299	1.292	1.290
Average	1.364	1.324	1.312	1.307	1.302	1.296	1.293
Max	1.376	1.326	1.313	1.308	1.304	1.299	1.296
UL	3.600	3.600	3.600	3.600	3.600	3.600	3.600



IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2018, Texas Instruments Incorporated